

Bridge Hydraulics Report

US 41/SR 45 AT CSX GRADE SEPARATION FROM S OF SR 676 TO N OF SR 676

**Project Development & Environment (PD&E) Study
Design Change Reevaluation**



Florida Department of Transportation

District 7

Work Program Item Segment No.: 440749-1

Federal Aid Project No.: D719-029-B

ETDM Project No. 14345

Hillsborough County, Florida

April 2023

The environmental review, consultation, and other actions required by applicable federal environmental laws for this project are being, or have been, carried out by the Florida Department of Transportation (FDOT) pursuant to 23 U.S.C. § 327 and a Memorandum of Understanding dated May 26, 2022, and executed by the Federal Highway Administration and FDOT.

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EXECUTIVE SUMMARY

The Florida Department of Transportation (FDOT) is conducting a Design Change and ROW Authorization Project Development and Environmental (PD&E) Reevaluation Study to evaluate the various operational improvements along US 41/SR 45/SR 599 from south of the Causeway Boulevard intersection to north of the Causeway Boulevard intersection.

The purpose of this project is to reduce traffic delays associated with the CSX railroad crossing, adequately support the safe movement of vehicle traffic, including trucks and freight, and enhance connectivity and safety for bicyclists and pedestrians.

The project limits identified along US 41 begin south of Denver Street (MP 22.578) and extend north of the Causeway Boulevard intersection to 23rd Avenue (MP 23.925). The improvements along Causeway Boulevard begin west of 45th Street (MP 3.554) and extend east of the Causeway Boulevard intersection terminating prior to the CSX crossing (624815B; MP 2.971). US 41 is currently a six-lane roadway throughout the project limits and Causeway Boulevard is currently four-lanes. US 41 and Causeway Boulevard are functionally classified by the FDOT as urban principal arterials. US 41 south of Causeway Boulevard and Causeway Boulevard west of US 41 are part of FDOT's Strategic Intermodal System (SIS), designated as a SIS Connector. The CSX railroad crossing east of US 41 is a designated SIS Railway Corridor and the CSX railroad crossing south of Causeway Boulevard is designated as a SIS Railway Connector. There is one bridge culvert south of Causeway Boulevard for US 41 over Delaney Creek (MP 23.003).

The project study is located in Sections 27, 28, 33, and 34 of Township 29 South and Range 19 East in the Tampa Bay Watershed within the Coastal Hillsborough Bay Tributary Planning Unit. The project is split between WBID 1605D (Delaney Creek Tidal) and WBID 1615 (Drainage to McKay Bay). Both WBIDs are verified as impaired for Enterococci. WBID 1605D is also impaired for lead, copper and iron. Along US 41, the stormwater runoff is collected by curb and gutter and conveyed either to FDOT stormwater management facilities (SMFs) located at the northwest and northeast corners of the US 41 and Causeway Boulevard intersection or directly to the outfall without treatment.

The purpose of this Bridge Hydraulics Report is to document the bridge alternatives at Delaney Creek and to support decisions related to the evaluation of the project build alternative for the project. Measures considered to avoid, minimize, and mitigate for potential impacts resulting from the proposed project are also discussed. This Bridge Hydraulics Report was conducted in accordance with the PD&E manual and applicable State and Federal natural resources regulations.

The existing bridge over Delaney Creek (100048) is a triple 11-ft wide by 8-ft high concrete box culvert. It is 120 feet in length at a skew of 66 degrees from the roadway. The canal flows from the east to the west. The bridge was constructed in 1959. Based on the latest bridge inspection report from March of 2019, the sufficiency rating is listed at 57.7 and the health index is 35.3. There was sediment within the cells measuring up to 2 feet. Transverse cracking was found in the ceiling of cell 1 and there was significant patching throughout the culvert. There is also noticeable deterioration of the asphalt directly above the culvert. Downstream of US 41 is a large timber span bridge for CSX.

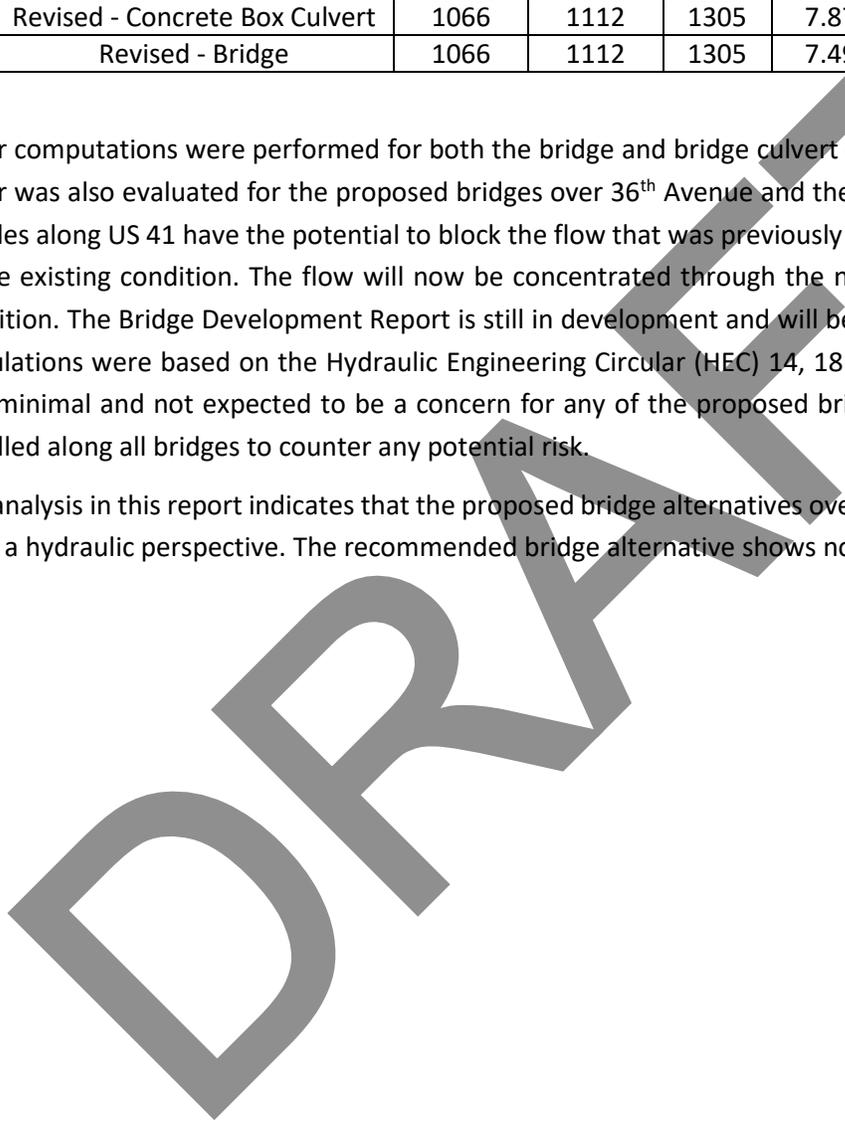
Two bridge alternatives were evaluated for the proposed improvements over Delaney Creek. A single span bridge approximately 92 feet in length and a triple 11-ft wide by 8-ft high bridge culvert were used in the analysis. The results are summarized in **Table ES-1**.

Table ES-1: Summary of Hydraulic Results at Delaney Creek

| Cross Drain | Design Peak Q (cfs) | | | Design High Water (ft) | | |
|--------------------------------|---------------------|--------|--------|------------------------|--------|--------|
| | 50-yr | 100-yr | 500-yr | 50-yr | 100-yr | 500-yr |
| Corrected Effective | 1066 | 1112 | 1305 | 7.87 | 8.08 | 8.62 |
| Revised - Concrete Box Culvert | 1066 | 1112 | 1305 | 7.87 | 8.08 | 9.01 |
| Revised - Bridge | 1066 | 1112 | 1305 | 7.49 | 7.66 | 8.38 |

Scour computations were performed for both the bridge and bridge culvert options over Delaney Creek. Scour was also evaluated for the proposed bridges over 36th Avenue and the CSX railroad. The proposed profiles along US 41 have the potential to block the flow that was previously allowed to overtop the road in the existing condition. The flow will now be concentrated through the new bridges in the proposed condition. The Bridge Development Report is still in development and will be included upon completion. Calculations were based on the Hydraulic Engineering Circular (HEC) 14, 18 and 20. The resultant scour was minimal and not expected to be a concern for any of the proposed bridges. Rubble rip rap will be installed along all bridges to counter any potential risk.

The analysis in this report indicates that the proposed bridge alternatives over Delaney Creek are feasible from a hydraulic perspective. The recommended bridge alternative shows no rises.



1.1 PROJECT BACKGROUND

The Florida Department of Transportation (FDOT) is conducting a Design Change and Right of Way (ROW) Authorization Reevaluation of a previous Environmental Assessment (EA) (Work Program Item Segment (WPIS) #No. 255598-1) with a Finding of No Significant Impact (FONSI) approved by the Federal Highway Administration on May 24, 1994. **Figure 1-1** shows the limits of the previous PD&E study completed along 22nd Street Causeway/Causeway Boulevard (State Road 676) from State Road (SR) 60 to US 301, in Hillsborough County, Florida. The segment currently being evaluated/advanced is shown as Segment 3 on **Figure 1-1**.

The previous study evaluated anticipated conditions for a 2015 Design Year. The FONSI documented the construction of a six-lane roadway to replace the existing 2- to 4-lane roadway beginning at SR 60 and extending approximately 7 miles east at US 301. Since the completion of the 1994 PD&E Study, Causeway Boulevard has been widened to four-lanes.

The project included a new interchange at US 41/Causeway Boulevard intersection for which the approved concept was a “compressed diamond” interchange with US 41 elevated over Causeway Boulevard. This interchange is also known as a Single Point Urban Interchange (SPUI) or a Tight Urban Diamond Interchange (TUDI). The study identified that the US 41 interchange bridge would carry three lanes of traffic in each direction with a barrier wall separating opposing traffic. The study recommended an additional grade separation of US 41 over the CSX railroad crossing south of Causeway Boulevard while the CSX railroad crossing east of US 41 would remain at-grade with Causeway Boulevard. The concept showed the SPUI ramps oriented along US 41 and one-way, one-lane frontage roads were provided in the southeast and northeast quadrants to provide local property access. Five-foot sidewalks and 4-foot bicycle lanes were proposed along both sides of Causeway Boulevard.

The current study effort being conducted under WPIS# 440749-1 is evaluating various intersection and operational improvements along Causeway Boulevard east and west of US 41 (SR 45/SR 599) along US 41 from south of the Causeway Boulevard intersection to north of the Causeway Boulevard intersection. These improvements include the construction of a grade separation of US 41/SR 45 at the CSX railroad crossing located approximately 1,400' south of the Causeway Boulevard intersection. Bicycle and pedestrian facility improvements along US 41 and Causeway Boulevard are also provided.

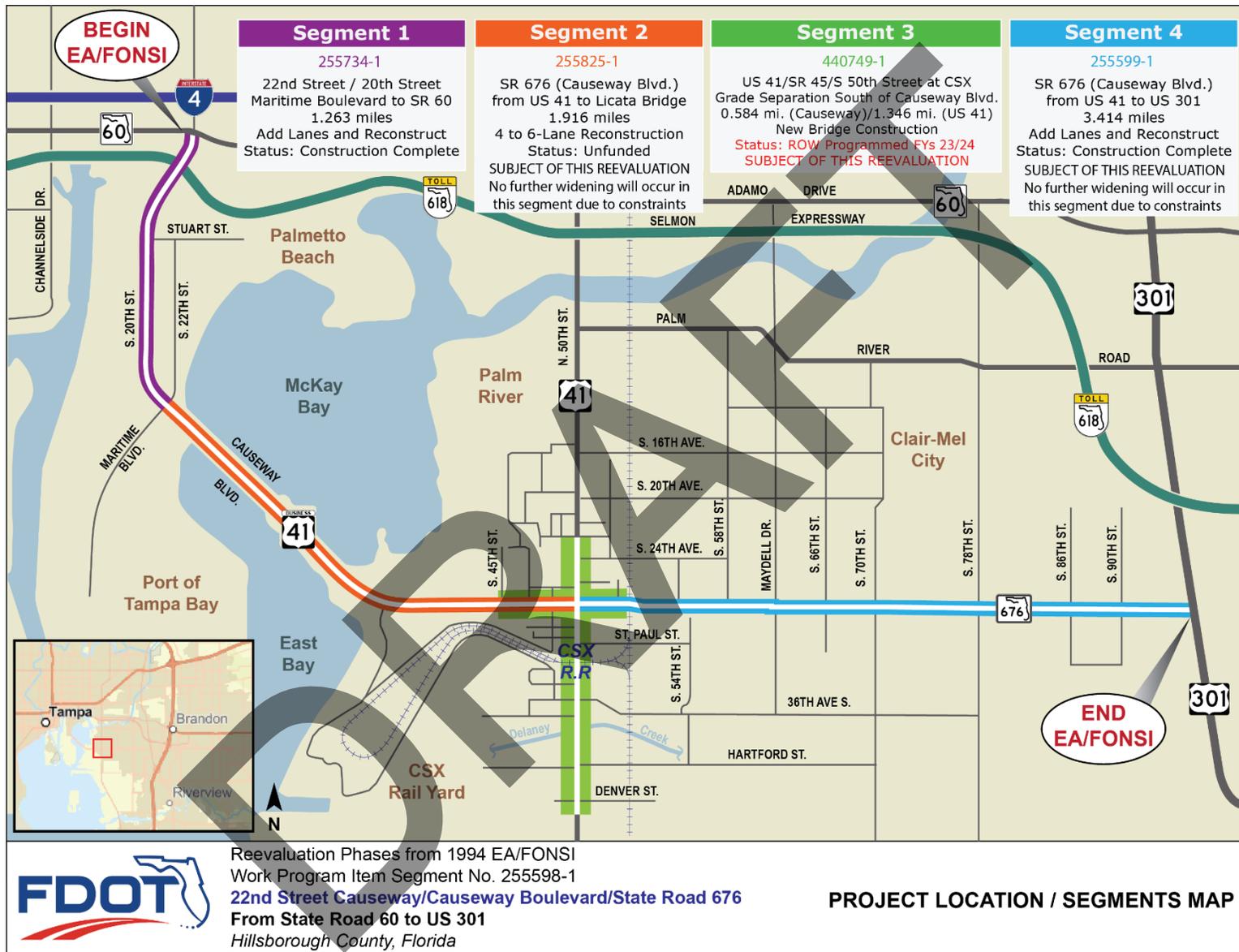


Figure 1-1. Project Location / Segments Map

1.2 PROJECT PURPOSE AND NEED

Purpose

The purpose of this project is to reduce traffic delays associated with the CSX railroad crossing, adequately support the safe movement of vehicle traffic, including trucks and freight, and enhance connectivity and safety for bicyclists and pedestrians.

Need

As expressed in the original 1994 EA/FONSI, the need for the 22nd Street Causeway/Causeway Boulevard improvements was based on the following criteria: System Linkage; Capacity; Transportation Demand; Federal, State, or Local Government Authority; Socioeconomic Demand; Modal Interrelationships; Safety; and Navigation.

For the current segment, US 41 and Causeway Boulevard are vital arterial highways which serve the City of Tampa located in Hillsborough County. The US 41/SR 45 and Causeway Boulevard intersection experiences traffic delays during the AM and PM peak periods with heavy truck traffic (approximately 13% of the daily volume) traversing through the intersection. The presence of CSX railroad crossings to the south and east of the intersection also further contribute to these traffic delays. The CSX railroad crossing located to the south of the intersection causes traffic delays particularly during the AM peak period. This project will address traffic delays associated with the CSX railroad crossing to the south of the US 41 and Causeway Boulevard intersection and will facilitate the safe movement of vehicle traffic through the project corridor.

In addition, this project will also address multimodal connectivity and safety within the area. Although there are sidewalks and dedicated bicycle lanes along both sides of Causeway Boulevard within the project limits, there are only sidewalks and no dedicated bicycle facilities along US 41 within the project limits. Between 2017 and 2021, there were 10 crashes involving bicyclists or pedestrians. These 10 crashes resulted in 1 fatality as well as a total of 8 injuries.

The proposed improvements have been identified in the Hillsborough County Transportation Planning Organization's (TPO) 2045 Adopted Long Range Transportation Plan (under the Hillsborough County Freight Hot Spots), the TPO's Fiscal Year 2022/23-2026/27 Transportation Improvement Program, as well as the FDOT's Statewide Transportation Improvement Plan and Strategic Intermodal System (SIS) Adopted 1st 5-Year Program. US 41 has also been identified as a Goods Movement Roadway Corridor from I-4 to the Manatee County Line and is a priority project for the National Highway Freight Program.

1.3 EXISTING FACILITY AND PROPOSED IMPROVEMENTS

1.3.1 Existing Facility

The project limits identified along US 41 begin south of Denver Street (MP 22.578) and extend north of the Causeway Boulevard intersection to 23rd Avenue (MP 23.925). The improvements along Causeway Boulevard begin west of 45th Street (MP 3.554) and extend east of the Causeway Boulevard intersection

terminating prior to the CSX crossing (624815B; MP 2.971). US 41 is currently a six-lane roadway throughout the project limits and Causeway Boulevard is currently four-lanes. US 41 and Causeway Boulevard are functionally classified by the FDOT as urban principal arterials. US 41 south of Causeway Boulevard and Causeway Boulevard west of US 41 are part of FDOT's Strategic Intermodal System (SIS), designated as a SIS Connector. The CSX railroad crossing east of US 41 is a designated SIS Railway Corridor and the CSX railroad crossing south of Causeway Boulevard is designated as a SIS Railway Connector. There is one bridge culvert south of Causeway Boulevard for US 41 over Delaney Creek (MP 23.003).

US 41 from south of Denver Street to Causeway Boulevard is a divided 6-lane roadway with a 19-foot median, 10-foot outside travel lanes, 11-foot middle and inside travel lanes, curb and gutter, and a sidewalk on both sides. The inside northbound travel lane from north of St. Paul Street becomes one of the two left-turn lanes for the Causeway Boulevard intersection. The sidewalk on the east side is 6-foot wide and the sidewalk on the west side varies from 5-foot to 6-foot wide.

Along US 41 from north of Causeway Boulevard to just north of S. 23rd Avenue, the existing typical section consists of an undivided 6-lane roadway with asphalt pavement, 11-foot travel lanes, a centered 10-foot bi-directional turn lane, curb and gutter, and 4-foot sidewalk along both sides of the roadway.

Along Causeway Boulevard from S. 45th Street to Sagasta Street, the existing typical section consists of an undivided 4-lane roadway with concrete pavement, 12-foot lanes, a centered 14-foot bi-directional turn lane, curb and gutter, 4-foot bike lanes, and 6-foot sidewalks.

The existing typical section of Causeway Boulevard from Sagasta Street to US 41 consists of a divided 4-lane roadway with concrete pavement and 12-foot travel lanes, 4-foot bicycle lanes, and 6-foot sidewalks on both sides.

The existing typical section of Causeway Boulevard from US 41 to the end project limits consists of a divided 4-lane roadway with asphalt pavement, 12-foot outside lanes and 11-foot inside lanes, curb and gutter, 4-foot bicycle lanes and 6-foot sidewalks on both sides.

The majority of the existing ROW along US 41 is 100 feet wide. In the vicinity of the CSX railroad, the ROW width varies from 100 to 332-feet. CSX Transportation owns a large portion of the adjacent property along both sides of US 41 where the CSX railroad crosses at grade. Causeway Boulevard is 150 feet wide or greater west of S. 45th Street and reduces to 100 feet wide around S. 47th Street. The ROW increases around the US 41 intersection along Causeway Boulevard then reduces to 100 feet wide before the CSX railroad crossing.

1.3.2 Proposed Improvements

This Design Change and ROW Authorization Project Development and Environment (PD&E) Reevaluation study (WPIS# 440749-1), with a 2046 Design Year, is evaluating various operational improvements along US 41/SR 45/SR 599/S. Tamiami Trail (US 41) from south of the Causeway Boulevard intersection to north of the Causeway Boulevard intersection. The study will evaluate roadway widening/reconstruction, new stormwater management facilities, new bridge overpasses at Delaney Creek, the CSX railroad, and other roadways for local traffic needs. Intersection and operational improvements being evaluated include

signalization and turn lane additions for Hartford Street, US 41/Causeway Boulevard, and 47th Street. In addition to addressing operational improvements, this project will address the need for pedestrian/bicycle accommodations and improving connectivity and safety for these modes.

There are multiple typical sections throughout the project limits. From just south of Denver Street to north of Trenton Street, the proposed typical section includes reconstructing US 41 with concrete pavement to accommodate a 6-lane divided urban curbed section with 12-foot lanes, 7-foot buffered bicycle lanes, and 10-foot sidewalks on both sides. The median width varies from 19-22 feet to provide turn lanes with raised traffic separators between opposing directions of travel. The proposed improvements will require the acquisition of ROW beyond the existing footprint varying from 0-22 feet along the west side and varying from 0-17 feet along the east side of US 41.

From north of Trenton Street the proposed typical section grade separates US 41 to continue a concrete paved typical section to south of St. Paul Street. The proposed typical section consists of a 6-lane divided urban section with concrete pavement, 12-foot lanes and 10-foot inside and outside paved shoulders. A northbound exit ramp connects to 36th Avenue with a t-intersection configuration on the east side of US 41. The proposed concrete ramp consists of a 15-foot travel lane, 7-foot buffered bicycle lane and a 10-foot sidewalk on the eastside. The existing US 41 southbound mainline pavement will be repurposed to accommodate a two-lane undivided frontage road for local access to adjacent properties. The proposed frontage road is an urban curbed section with asphalt pavement, 12-foot travel lanes, and a 10-foot sidewalk on the west side. Bridge overpasses are proposed for the US 41 mainline over Delaney Creek, 36th Avenue, and the at grade CSX Crossing (No 624802A). The proposed improvements will require the acquisition of ROW varying from 29 to 88 feet along the west side and varying from 39 to 200 feet along the east side.

From north of St. Paul Street to the Causeway Boulevard intersection, the proposed typical section along US 41 consists of a 6-lane divided urban section with concrete pavement, 12-foot lanes, 10-foot outside paved shoulders on the west side and a 7-foot buffered bicycle lane on the east side. The median bifurcates to accommodate three 12-foot left turn lanes approaching the intersection with one 12-foot right turn lane along the outside in the northbound direction. Milling and resurfacing is proposed for the outside 22-feet of the existing southbound lanes. This area will be restriped to provide a frontage road with one 15-foot lane and a 7-foot buffered bicycle lane on the outside with a new raised curb and 10-foot sidewalk. The proposed improvements will require the acquisition of ROW varying from 0 to 160 feet along the east side only.

The proposed typical section for US 41 north of Causeway Boulevard consists of a 6-lane divided urban section with 12-foot lanes, 7-foot buffered bike lanes and 6-foot sidewalks. The northbound lanes will be asphalt and the southbound lanes will be concrete. There are two 12-foot left turn lanes and one 12-foot right turn lane shown in the southbound direction. The proposed improvements will require the acquisition of ROW varying from 30 to 45 feet along the west side and varying from 0 to 45 feet along the east side.

The proposed typical section for Causeway Boulevard from S. 45th Street to US 41 widens the existing concrete pavement to accommodate a 4-lane divided urban section with 11-foot travel lanes, 7-foot buffered bike lanes and 6-foot sidewalks along the outside. Approaching the US 41 intersection, there are two 11-foot left turn lanes and three 11-foot right turn lanes in the eastbound direction. The proposed improvements will require the acquisition of ROW varying from 0 to 44 feet along the north side only.

The proposed typical section for Causeway Boulevard from US 41 to the end project limit just west of the CSX railroad crossing consists of a westbound concrete and eastbound asphalt 4-lane divided urban section with 11-foot travel lanes, 7-foot buffered bike lanes and 6-foot sidewalks on the outside. Approaching the US 41 intersection, there are two 11-foot left turn lanes and one 11-foot right turn lane in the westbound direction. The proposed improvements will require the acquisition of ROW varying from 0 to 4 feet along the north side only.

1.4 REPORT PURPOSE

The purpose of this Bridge Hydraulics Report is to document the bridge alternatives at Delaney Creek and to support decisions related to the evaluation of the project build alternative for the project. Measures considered to avoid, minimize, and mitigate for potential impacts resulting from the proposed project are also discussed. This Bridge Hydraulics Report was conducted in accordance with the PD&E manual and applicable State and Federal natural resources regulations. All elevations referenced within the report are in the North American Vertical Datum of 1988 (NAVD 88) unless otherwise noted.

SECTION 2 DATA COLLECTION

2.1 EXISTING ROADWAY CONDITIONS

A dominant feature of the area is the CSX Railroad leading in and out of the Port of Tampa. A single railroad track currently crosses US 41 at grade approximately 1475 ft. south of the intersection and crosses Causeway Boulevard approximately 1400 ft. east of the intersection. These at-grade crossings create long delays to vehicular traffic on both US 41 and Causeway Blvd. A significant portion of this traffic is truck traffic traveling to and from the port.

The functional classification for both US 41 and Causeway Boulevard is Urban Principal Arterial -Other. Both facilities are on the State Highway System, and US 41 is on the National Highway System. A portion of the project limits is designated a Strategic Intermodal System (SIS) connector along US 41 from south of the project limits to Causeway Boulevard and along Causeway Boulevard from US 41 to west of the project limits. Both facilities are considered evacuation routes. The posted speed limit is 50 miles per hour (mph) for US 41 and 45 mph for Causeway Boulevard. The context classification for both facilities is listed as C3C.

Existing land uses within the study area include commercial and vacant lots. Commercial businesses have access points to US 41 throughout the corridor. The existing topography is relatively flat within the study area with elevations averaging around 7 ft NAVD. Refer to **Figure 2-1** for a topographic map.

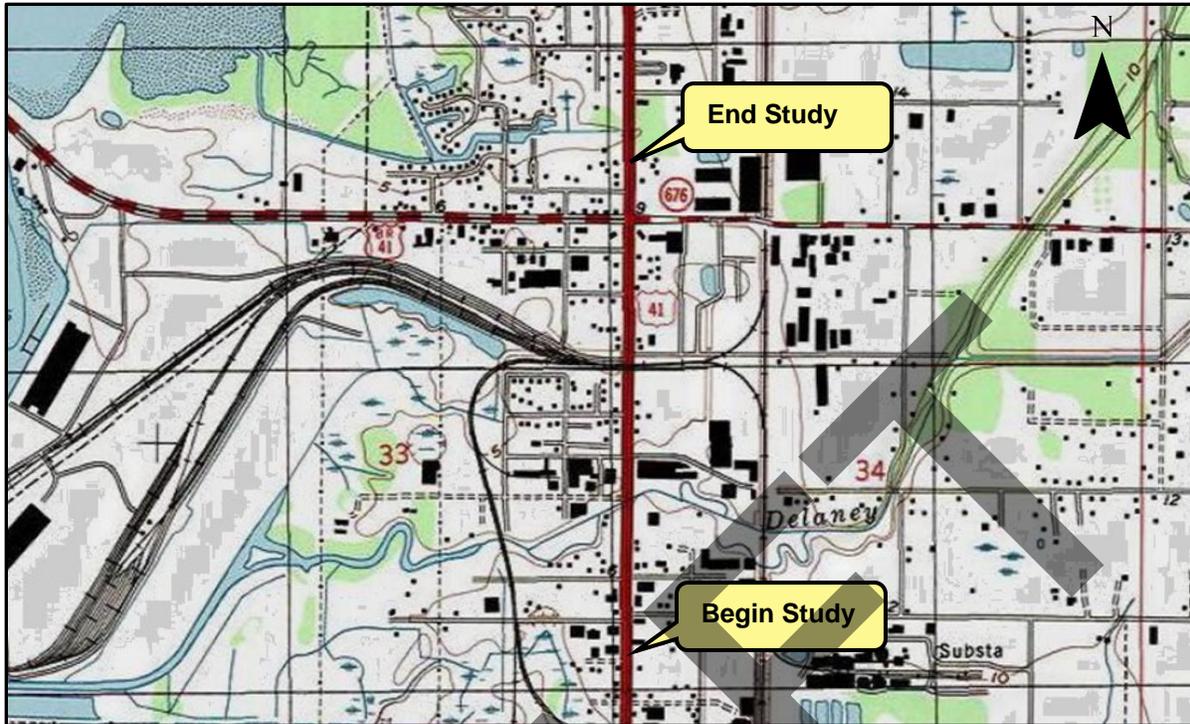


Figure 2-1: USGS Topographic Map

The proposed improvements include adding an overpass on US 41 at CSX railroad crossing south of Causeway Blvd and intersection improvements at US 41 and Causeway Blvd with the focus of improving the turning movements at the US 41/Causeway Blvd intersection. Off-site stormwater management facilities will be constructed to treat and attenuate the additional stormwater runoff from the proposed improvements.

2.2 DELANEY CREEK WATERSHED MODEL

Preliminary hydraulic modeling for the Delaney/Archie Creek (DAC) watershed was conducted using EPA SWMM version 5.2.0. Runoff was estimated by the SWMM5 Hydrology Tool Add-in provided by Hillsborough County to utilize the SCS Curve Number method. The hydraulic model allows for a more detailed analysis of the entire watershed. This model was used to obtain the flows through the existing culvert at Delaney Creek and the known water stages downstream of the culvert for incorporation within the HEC-RAS model.

2.3 FLOOD INSURANCE RATE MAPS (FIRMS)

The project is located within Federal Emergency Management Agency (FEMA) Insurance Rate Maps (FIRMs) 12057C0366J and 12057C0367J effective October 7, 2021 in Hillsborough County. FIRM Panel 12057C0366J covers the project area along Causeway Boulevard west of S 47th Street. FIRM Panel 120570367J covers the project limits along US 41 and on Causeway Boulevard east of 47th Street. US 41 crosses over the Delaney Creek within the project limits on FIRM Panel 12057C0367J. Based on the new

effective maps, Delaney Creek is no longer listed as a FEMA Floodway within the project limits. The FEMA FIRMs are provided in **Appendix A**.

Based on the current effective maps, the entire project area is located within a FEMA Zone AE 100-year floodplain with a base flood elevation (BFE) which ranges between 12 and 13 feet. The FEMA BFE is based on storm surge. The riverine 100-year flood stage is based on the Delaney Creek Watershed Model and ranges from 4 to 8 feet within the project limits. An isolated Zone A exists on the north side of Causeway Boulevard east of the CSX railroad tracks that appears to be outside of the study limits.

Flood Zones A and AE represent a 1% annual change of flood, which is commonly referred to as the 100-year flood. The receiving water body (Hillsborough Bay) is tidally influenced.

2.4 FLOODING HISTORY

There are no active flood investigations documented in the vicinity of the project but there were four past flood investigations.

Investigation #1003112009174 at 4141 Causeway Boulevard filed in 2006 reported flooding of private property several times per year. The property is 5.1 feet below the FEMA effective 100-year flood elevation and substantial development has occurred in the area since the FDOT system was designed in 1978. A blocked outfall pipe on Port Authority property was identified as the likely problem. No new complaints have been issued for this location. Refer to **Appendix B** for the Flood Investigation Drainage Complaint Inventory Sheet.

Investigation #1005202009518 at 3630 South 50th Street filed in 2005 reported flooding of private property and a building from roadway runoff during larger storm events. The property is located in a low area below the 100-year floodplain with groundwater table estimated 0-1 feet below ground. Poorly maintained private swales were identified as a potential issue. Vegetation around an FDOT ditch bottom inlet was also identified and cleared. No new complaints have been issued for this location. Refer to **Appendix B** for the Flood Investigation Drainage Complaint Inventory Sheet.

Investigation #1006222010167 at 2436 South 50th Street filed in 2009 reported flooding of a business. The complainant did not report a history of flooding and believed the problem could be the recent widening project on Causeway Boulevard. No new complaints have been issued for this location. Refer to **Appendix B** for the Flood Investigation Drainage Complaint Inventory Sheet.

Investigation #1008292016754 identified standing water on 31st Avenue and 34th Avenue beside South 50th Street during a field review for an upcoming sidewalk project under FPID 439038-1. Inadequate drainage systems on the side streets were identified as the likely cause. No new complaints have been issued for these locations. Refer to **Appendix B** for the Flood Investigation Drainage Complaint Inventory Sheet.

2.5 AGENCY COORDINATION

2.5.1 Southwest Florida Water Management District

A Pre-Application Meeting was held with the Southwest Florida Water Management District (SWFWMD) on March 12, 2020. The purpose of this meeting was to confirm design criteria for the stormwater management facilities and floodplain compensation requirements for the corridor. Treatment will be required for new travel lanes and any existing impervious areas that have previously been permitted. Attenuation will not be required for areas that directly discharge to tidally controlled water bodies. Otherwise, the post development peak discharge must be less than the predevelopment discharge for the 25-year, 24-hour storm event. Equivalent compensating storage will be required for any riverine floodplain impacts, and flood stages are not to be increased. Correspondence and additional documentation are provided in **Appendix C**.

An additional meeting was held with SWFWMD on November 19, 2020 to determine the tidal nature of the project and discuss whether attenuation and floodplain compensation would be required for the proposed improvements. It was determined that the receiving system is not tidally influenced due to the constrictions imposed by the downstream bridge structure at the railroad tracks over Delaney Creek and the downstream culvert in the Unnamed Creek. Therefore, attenuation and floodplain compensation will be required. SWFWMD will allow the use of the Delaney Creek model to show no rises to the flood stages. Meeting minutes and email correspondence are located in **Appendix C**.

2.5.2 Florida Department of Transportation

A Drainage Coordination Meeting was held with the FDOT on February 25, 2020. The purpose of this meeting was to identify any preferred pond site locations and discuss the drainage needs of the project. The FDOT confirmed that a “design level” Pond Siting Report will be required for the project and that an LHR will be required to confirm any floodplain mitigation needs for the project. The meeting minutes are provided in **Appendix C**.

A Pond Siting Coordination Meeting was held on October 4, 2022 with the FDOT to identify the pond sites for the preferred alternative. The selected ponds will be analyzed within the Pond Site Selection Report. The meeting minutes are provided in **Appendix C**.

A meeting to discuss the drift clearance was held on January 19, 2023. There was concern with the estimated sea level rise over the life of the bridge and if the allowable drift clearance had taken the sea level rise into consideration. Based on the discussion in the meeting, the drift clearance would not be estimated from the predicted sea level rise and would remain at 2-feet above the design high water. Instead, it was determined that the design of the bridge would need to account for the water load that could be encountered during a storm surge event and that the design bridge scour be evaluated assuming a 10% blockage for the riverine event. Additionally, buoyancy will be evaluated for the design bridge. The meeting minutes are provided in **Appendix C**.

2.5.3 Hillsborough County

Hillsborough County was contacted on March 8, 2021 to determine if a “no-rise” analysis will be required for the bridge over Delaney Creek. The effective FEMA maps at the time of the meeting showed Delaney Creek as a designated floodway within the project limits. The new effective maps have removed the floodway from the project limits. Hillsborough County confirmed that a “no-rise” evaluation will not be required for Delaney Creek. The email correspondence is located in **Appendix C**.

2.6 DESIGN CRITERIA

The design of the bridges for the project is governed by the rules set forth by the FDOT. Based on Section 5.1.4 of the 2022 Drainage Design Guide and Chapter 260.8.1 of the FDOT Design Manual (FDM), FDOT requires a two-foot drift clearance from the design highwater to the low member elevation of the bridge for the riverine analysis. This requirement does not apply to culverts and bridge culverts. In coastal areas, the minimum vertical clearance is 1 ft above the 100-year design wave crest elevation including storm surge. This is intended to protect the bridge from wave action. Preliminary FEMA FIRM Panel 12057C0366J shows the Limits of Moderate Wave Action (LiMWA) line one mile west of the Delaney Creek Bridge and the crossing is outside of the VE floodplain. Therefore, coastal criteria will not apply to this crossing. Navigational vertical clearances will not be required as the existing bridge culvert has been determined to be non-navigable in the ETDM.

Section 3.4.1 of the 2022 FDOT Drainage Manual requires all coastal projects to incorporate sea level rise analysis and assess the vulnerability of flooding over the design life of the facility. According to sea level trends and historical data gathered by the National Water Level Observation Network (NWLON), a mean sea level rise of 0.109 inches per year for the St. Petersburg area (Station 8726520) is expected. Major cross drains, such as the bridge culvert at Delaney Creek, have a design service life of 100 years. The mean sea level is anticipated to rise 0.91 feet during the service life of this cross drain. A meeting was held on January 19, 2023 to discuss the sea level rise and how it would be addressed with the project. Based on the discussion, the design of the bridge would need to account for the water load that could be encountered during a storm surge event and the bridge would need to be evaluated for buoyancy. The scour for the designed bridge would be evaluated assuming a 10% blockage for the riverine event. The existing bridge culvert at Delaney Creek is located approximately 1.6 miles upstream of McKay Bay. Therefore, the drift clearance will not be measured from the estimated sea level rise. Refer to **Appendix C** for the meeting minutes.

Table 1: Design Criteria

| Criteria | Reference | Requirement |
|-----------------|--|---|
| Drift Clearance | FDOT Drainage Design Guide 5.1.4 and FDM Chapter 260.8.1 | 2-ft of drift clearance between DHW and low member. This does not apply to culverts or bridge culverts. |

2.7 SOILS DATA AND SHGWT DETERMINATION

The Natural Resources Conservation Service (NRCS) Web Soil Survey classifies seven soil types along the project limits, which are shown in **Figure 2-2** and listed in **Table 2**.

Table 2: NRCS Soil Survey Information

| Map Unit and Name | | Drainage Class | Hydrologic Soil Group | Depth to Water Table (ft) |
|-------------------|--------------------------------------|---------------------|-----------------------|---------------------------|
| 5 | Basinger, Holopaw, and Samsula soils | Very poorly drained | A/D | +2.0-1.0 |
| 29 | Myakka fine sand | Poorly drained | A/D | 0.0-1.0 |
| 30 | Myakka fine sand | Very poorly drained | A/D | 0.0-1.0 |
| 38 | Pinellas fine sand | Poorly drained | B/D | 0.0-1.0 |
| 57 | Winder fine sand | Poorly drained | C/D | 0.0-1.0 |
| 59 | Winder fine sand | Poorly drained | C/D | 0.0-1.0 |
| 99 | Water | - | - | - |

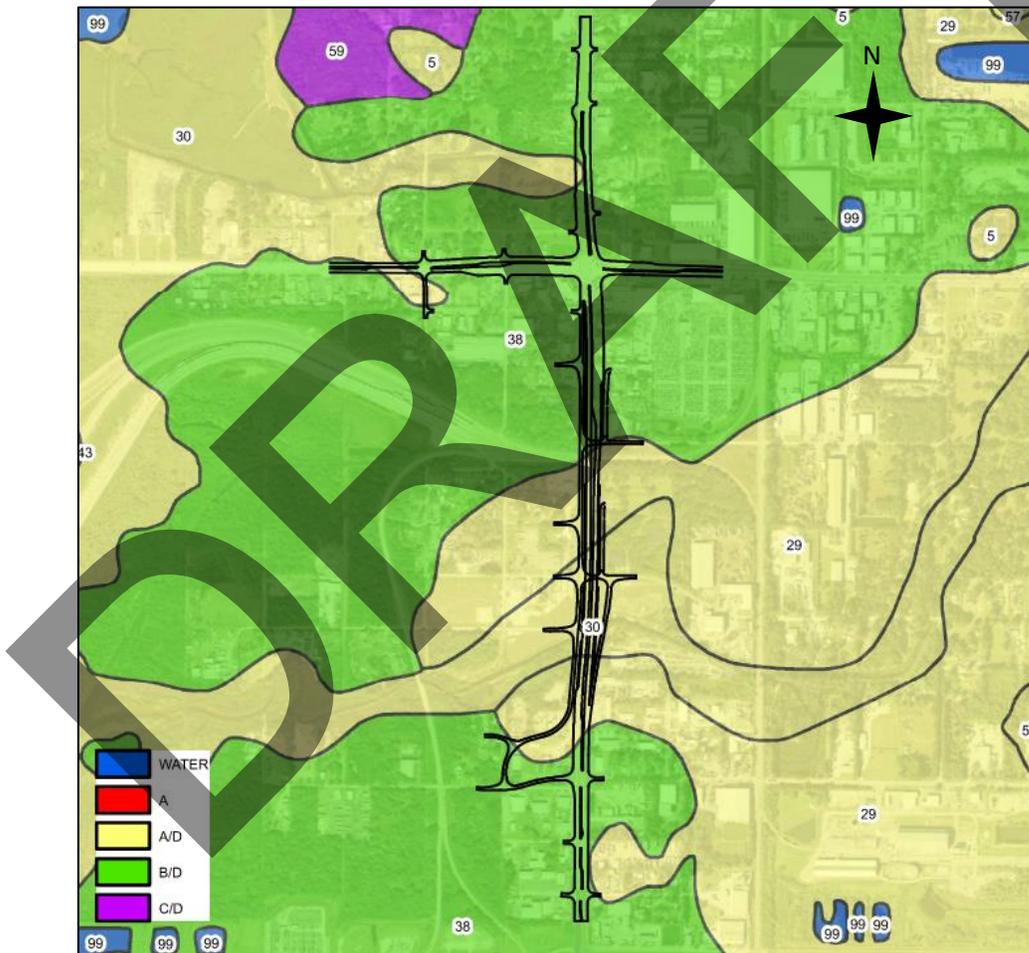


Figure 2-2: NRCS Soil Survey Information

Seasonal high groundwater table elevations were determined for the project based on geotechnical investigations and existing surface water information. All elevations are in NAVD88 datum unless otherwise stated.

Tierra, Inc. performed geotechnical soil borings to determine seasonal high groundwater table (SHGWT) elevations along the roadway alignment. A copy of the geotechnical report is provided in **Appendix D**. The seasonal high water table elevations range between 3.3 and 7.8 feet along the corridor.

SECTION 3 EXISTING BRIDGE CONDITIONS

The existing bridge over Delaney Creek (100048) is a triple 11-ft wide by 8-ft high concrete box culvert. It is 120 feet in length at a skew of 22 degrees. The canal flows from the east to the west. The bridge was constructed in 1959. Based on the latest bridge inspection report from March of 2019, the sufficiency rating is listed at 57.7 and the health index is 35.3. There was sediment within the cells measuring up to 2 feet. Transverse cracking was found in the ceiling of cell 1 and there was significant patching throughout the culvert. There is also noticeable deterioration of the asphalt directly above the culvert. Downstream of US 41 is a large timber span bridge for CSX. Refer to **Appendix E** for the latest bridge inspection.



Figure 3-1: Bridge 100048 Downstream End

A field review was conducted on July 30, 2020 to review the existing channel and the structures. The existing channel banks were full of trees and brush. The downstream structure had mangroves present in the banks as well as crabs, confirming the tidal nature of the channel downstream.



Figure 3-2: Delaney Creek Looking Downstream from US 41



Figure 3-3: Downstream Timber Bridge

SECTION 4 HYDROLOGY

The project study area is located in the Tampa Bay Watershed within the Coastal Hillsborough Bay Tributary Planning Unit. The project is split between WBID 1605D (Delaney Creek Tidal) and WBID 1615 (Drainage to McKay Bay). Both WBIDs are verified as impaired for Enterococci. WBID 1605D is also impaired for lead, copper and iron. Refer to **Appendix A** for the WBID Map. Along US 41, the stormwater runoff is collected by curb and gutter and conveyed either to Delaney Creek or the unnamed creek located north and south of Causeway Boulevard respectively. Formal water quality is not currently provided along US 41. Causeway Boulevard from the begin project area to east of 47th Street sheet flows to the existing roadside ditches and outfalls directly to East Bay with no formal water quality treatment. Causeway Boulevard from east of 47th Street to the end of the project area is collected by curb and gutter and

conveyed to existing FDOT SMFs (ERP 27063.000) located at the northwest and northeast corners of US 41 and Causeway Blvd. intersection.

The existing bridge is located over Delaney Creek. This creek is interconnected with a series of creeks and tributaries that make up the Delaney Creek Watershed with an ultimate outfall to Hillsborough Bay. The entire watershed encompasses an area of approximately 36 square miles (22,893 acres) in western Hillsborough County. The Delaney Creek Watershed was analyzed using EPA SWMM Version 5.2.0. The project traverses two subwatersheds within the Delaney Creek Watershed. The project traverses two subwatersheds within the Delaney Creek Watershed. The northern portion of the project is within the Palm River Coastal subwatershed and the southern portion of the project is within the Delaney Creek subwatershed. The Palm River Coastal Subwatershed begins north of the project limits and drains southwest to an existing channel south of 24th Avenue and outfalls at McKay Bay. The southern boundary of the subwatershed is Causeway Boulevard. The Delaney Creek Subwatershed begins at Causeway Boulevard and drains southwest to Delaney Creek and outfalls to East Bay. The southern boundary of the subwatershed is Santa Fe Road. Both subwatersheds ultimately outfall to Hillsborough Bay. Refer to **Figure 4-1** for a map of the existing watersheds.

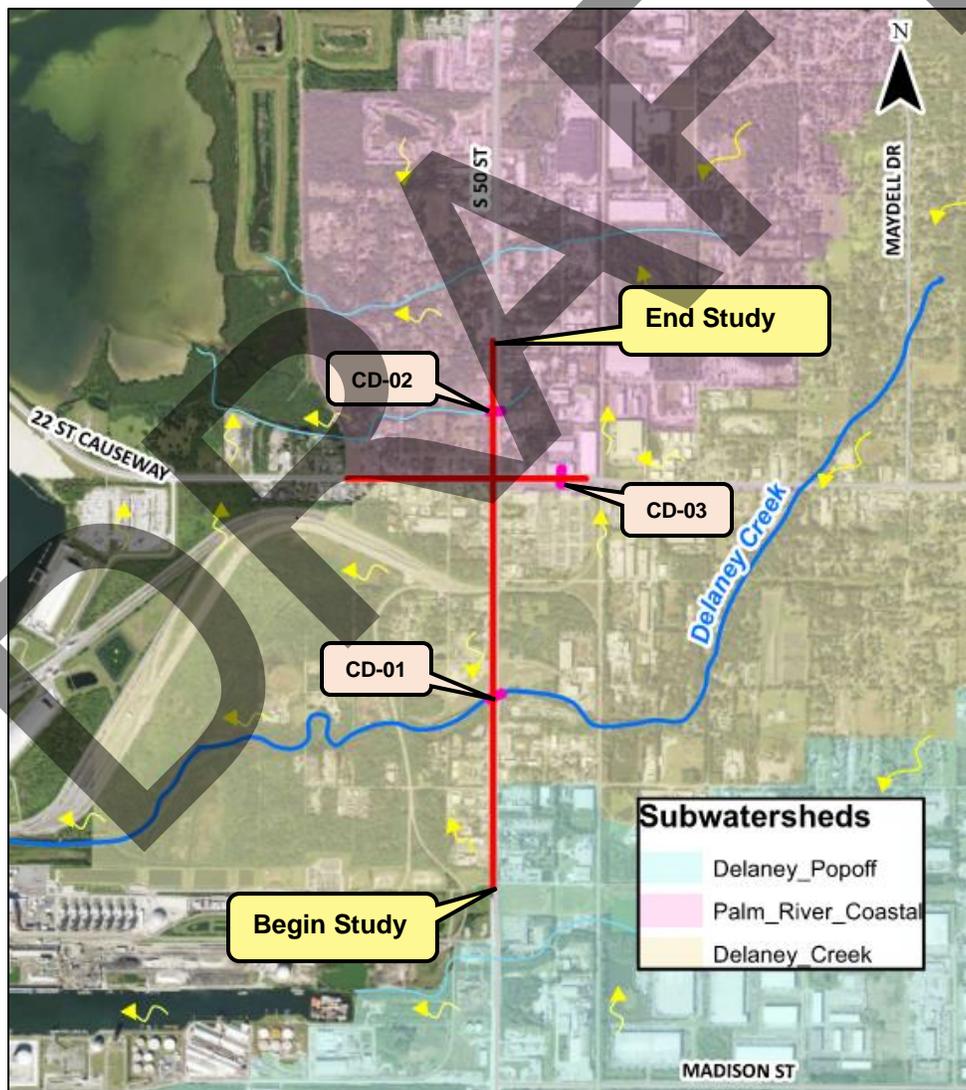


Figure 4-1 Watershed Map

SECTION 5 HYDRAULICS

5.1 FLOW AND TAILWATER DETERMINATION

The existing Delaney/Archie Creek Watershed model was obtained from Hillsborough County. The watershed was analyzed using EPA SWMM Version 5.2.0. This model will be known as the Effective Model for the analysis.

The Effective Model was copied and saved as the Corrected Effective Model. The model was updated to reflect the surveyed conditions for the corridor. These updates included the length and size of the existing cross drains and the cross sections for Delaney Creek. A complete summary of the changes can be found in **Appendix F**. The summary of the flows from links P210050A, P210050B, and P210050C from the SWMM model were used for the HEC-RAS analysis. The elevations of the node downstream of the existing box culvert were used for the known water surface elevation within the HEC-RAS model.

5.2 HEC-RAS ANALYSIS

A new model was created within HEC-RAS 6.3.1 at Delaney Creek to verify the results of the SWMM model and comply with Chapter 5.2.3.3 of the 2023 Drainage Design Guide. The flows through the existing bridge culvert were taken from the SWMM model as well as the tailwater downstream of the bridge. The existing survey within the project and creek was merged with the most recent LiDAR and imported into the HEC-RAS program to cut cross sections. The existing conditions model matched the results of the corrected effective SWMM Model.

The alternatives that were analyzed for this report include a triple 11-ft wide by 8-ft high concrete box culvert and a single span bridge with sloped abutments. The single span bridge will consist of three separate bridges for the Frontage Road, US 41 Mainline, and Ramp A. They are 90 feet, 99 feet, and 111 feet in length respectively.

5.2.1 Bridge Alternative

Due to the proximity of the proposed bridges over Delaney Creek, they were hydraulically modeled as one 325-ft long structure along the creek. The channel cross section under the bridge was modified to have an 11-ft wide bottom at elevation -3.9 with 2:1 side slopes. A 10-ft wide bench was added above the top of bank per the 2022 FDOT Drainage Manual Section 4.9.1. The Manning's number in the channel under the bridge was revised to reflect riprap along the abutments. The adjacent channel lengths were updated so that the total channel length would remain constant between the corrected and revised models. A summary of the results is located in **Table 3**. The complete summary of changes can be found in **Appendix G**.

5.2.2 Bridge Culvert Alternative

The existing triple 11-ft wide by 8-ft high box culvert was extended to 325 feet in length to accommodate the proposed widening. The inverts were updated to be consistent between all boxes. It was assumed that the culverts would need to be replaced due to the age and condition of the existing culvert as noted

in the bridge inspection report. The adjacent channel lengths were updated so that the total channel length would remain constant between the corrected and revised models. A summary of the results is located in **Table 3**. The complete summary of changes can be found in **Appendix G**.

The proposed bridge and bridge culvert were then input into the HEC-RAS model. A summary of the results is included in **Table 3**. For the complete HEC-RAS analysis, refer to the HEC-RAS narrative and results provided in **Appendix G**. Due to the profile changes over Delaney Creek, the flow is no longer able to overtop for the 500-year event and is therefore causing rises to show for the proposed box culvert. Upsizing the box culvert is not recommended due to the constraints within the existing channel and the anticipated stage increases downstream for the smaller, more frequent storm events. Additionally, the proposed improvements were modeled within the existing watershed model which is considered the more accurate and best available information. The SWMM model demonstrated that the proposed box alternative was adequately sized with no adverse stage increases within the watershed.

Table 3: Summary of HEC-RAS Results at Delaney Creek

| Cross Drain | Design Peak Q (cfs)* | | | Design High Water (ft) | | |
|--------------------------------|----------------------|--------|--------|------------------------|--------|--------|
| | 50-yr | 100-yr | 500-yr | 50-yr | 100-yr | 500-yr |
| Corrected Effective | 1066 | 1112 | 1305 | 7.87 | 8.08 | 8.62 |
| Revised - Concrete Box Culvert | 1066 | 1112 | 1305 | 7.87 | 8.08 | 9.01 |
| Revised - Bridge | 1066 | 1112 | 1305 | 7.49 | 7.66 | 8.38 |

5.3 SWMM MODEL

Hydraulic modeling for the Delaney/Archie Creek (DAC) watershed was also conducted using EPA SWMM version 5.2.0. The hydraulic model allows for a more detailed analysis of the entire watershed. This model was updated with all of the proposed improvements to the corridor to verify that the proposed alternatives over Delaney Creek were feasible.

The Corrected Effective Model was copied and saved as the Revised Model. The model was updated to reflect the proposed changes within the corridor. The proposed stormwater management facilities were added, and the storage areas and curve numbers were updated to reflect the additional pavement. The weirs along the roadway were also updated to reflect the elevated profile. The cross drain at the unnamed creek was updated to a proposed double 48" RCP. The complete summary of changes can be found in **Appendix F**.

Once the changes to the Revised Model resulted with no rises to the node stages, the different alternatives at Delaney Creek were modeled. **Table 4** summarizes the results.

Table 4: Summary of SWMM Results at Delaney Creek

| Cross Drain | Design Peak Q (cfs)* | | | Design High Water (ft) | | |
|--------------------------------|----------------------|--------|--------|------------------------|--------|--------|
| | 50-yr | 100-yr | 500-yr | 50-yr | 100-yr | 500-yr |
| Effective | 1370 | 1446 | 1834 | 7.64 | 7.82 | 8.55 |
| Corrected Effective | 1398 | 1471 | 1834 | 7.87 | 8.09 | 8.98 |
| Revised - Concrete Box Culvert | 1402 | 1476 | 1841 | 7.86 | 8.08 | 9.00 |
| Revised - Bridge | 1400 | 1475 | 1863 | 7.88 | 8.08 | 8.89 |

*Flows were taken at upstream node (210050) of the Bridge/Culvert

SECTION 6 SCOUR

Scour computations were performed for both the bridge and bridge culvert options over Delaney Creek. US 41 will be elevated over the existing CSX crossing and 36th Street and the proposed profiles along US 41 have the potential to block the flow that was previously allowed to overtop the road in the existing condition. The flow will now be concentrated through the new bridges in the proposed condition. Therefore, scour was also evaluated for the proposed bridges over 36th Avenue and the CSX railroad. Calculations were based on the Hydraulic Engineering Circular (HEC) 14, 18 and 20.

The Grain Size Distribution Reports provided by Tierra, Inc. were used to estimate the grain sizes utilized for the calculations. The D50 particle size was estimated to be 0.33mm within Delaney Creek, 4.2mm at the railroad crossing, and 0.30mm at 36th Avenue. Refer to **Appendix D** for the distribution curves.

6.1 DELANEY CREEK

The SWMM model was utilized to pull flow data and depths for the bridge alternatives over Delaney Creek and calculate scour. Section 5.5.1.3 of the 2022 Drainage Design Guide states that abutment scour estimates are not required when the design provides the minimum abutment protection outlined in Section 4.9.3 of the 2022 Drainage Manual. The proposed bridge over Delaney Creek will provide rubble riprap along the 1:2 sloped abutments for more than the minimum 10-ft required width. Therefore, abutment scour was not calculated for the Delaney Creek bridge. The bridge inspection reports over Delaney Creek were reviewed for the natural channel aggradation and degradation between the years 1999 and 2019. The channel has not experienced any significant changes. The slight increase in flow proposed for the bridge and bridge culvert alternatives is considered negligible. Therefore, the long-term effects on the channel are considered to be none. Similarly, the anticipated channel migration is considered to be none. The resultant contraction scour computed within the HEC-RAS program was found to be 0 feet. Therefore, the computed scour was used for conservatism.

Table 4 summarizes the calculated scour conditions for the bridge over Delaney Creek. The complete analysis is located in **Appendix H**.

Table 5: Summary of Scour for Bridge Alternative

| Scour Hole Properties | Calculated | | HEC-RAS | |
|---------------------------------------|------------|--------|---------|--------|
| | 100-yr | 500-yr | 100-yr | 500-yr |
| Contraction Scour (ft) | 1.42 | 0.65 | 0.02 | 0.39 |
| Abutment Scour (ft)* | N/A | N/A | N/A | N/A |
| Pier Scour (ft)** | N/A | N/A | N/A | N/A |
| Aggradation/Degradation Scour (ft)*** | N/A | N/A | N/A | N/A |

*Rubble proposed greater than minimum 10-ft width

**No piers proposed

***Negligible change in flow and no significant changes in channel

Table 5 summarizes the scour hole dimensions calculated for the proposed triple 11-ft wide by 8-ft high box culvert. To help counter the effects of scour at the downstream end of the culvert, riprap will be

proposed from the culvert to the right of way line and along the banks of the creek. The complete analysis is located in **Appendix H**.

Table 6: Summary of Scour for Triple 11-ft Wide by 8-ft High Culvert

| Scour Hole Properties | | 100-yr | 500-yr |
|--------------------------------------|---------------------------------------|---------|---------|
| Contraction Scour | Length (ft) | 107.07 | 115.34 |
| | Width (ft) | 50.70 | 55.14 |
| | Depth (ft) | 13.54 | 14.4 |
| | Volume (ft ³) | 42952.1 | 52271.0 |
| | Distance of max scour downstream (ft) | 42.83 | 46.14 |
| Abutment Scour (ft)* | | N/A | N/A |
| Aggradation/Degradation Scour (ft)** | | N/A | N/A |

*Rubble proposed greater than minimum 10-ft width

**Negligible change in flow and no significant changes in channel

6.2 36TH AVENUE AND CSX BRIDGES

Scour was evaluated for the 36th Avenue and CSX bridges due to the entire project being within the floodplain and the risk of these bridges acting as relief bridges for Delaney Creek. The actual flow captured through these bridges was found to be minimal, which resulted in velocities close to 0 ft/s through the bridges. Therefore, the bridges fell within clear bed criteria and resulted in negative contraction scour values for the 100-year and 500-year storms. Both bridges will likely have vertical abutments. Due to the extremely limited amount of flow and minimal velocities, the abutments are not expected to encounter any significant scour. As a protective measure, rip rap will be placed adjacent to the walls where feasible given the proposed bridge design that is still ongoing. The complete analysis is located in **Appendix G**.

SECTION 7 DECK DRAINAGE

The design speed along US 41 is 50 mph. The proposed bridge typical will include 2% cross slopes and 10-ft shoulders for both US 41 and Frontage Road. Ramp A will have a 15-ft lane sloped at 2%. The allowable spread for US 41 is 14 feet, the Frontage Road is 16 feet and Ramp A is 7 feet. The proposed profiles for all bridges will slope off the bridge to the closed drainage system along the roadway. The allowable spread will be maintained along the bridge. Refer to **Figure 7-1** for the proposed bridge typical sections over Delaney Creek. Similarly, the proposed bridges over CSX and 36th Street will drain off the bridges and be collected within the closed storm drain system along the mainline and the allowable spread will be maintained.

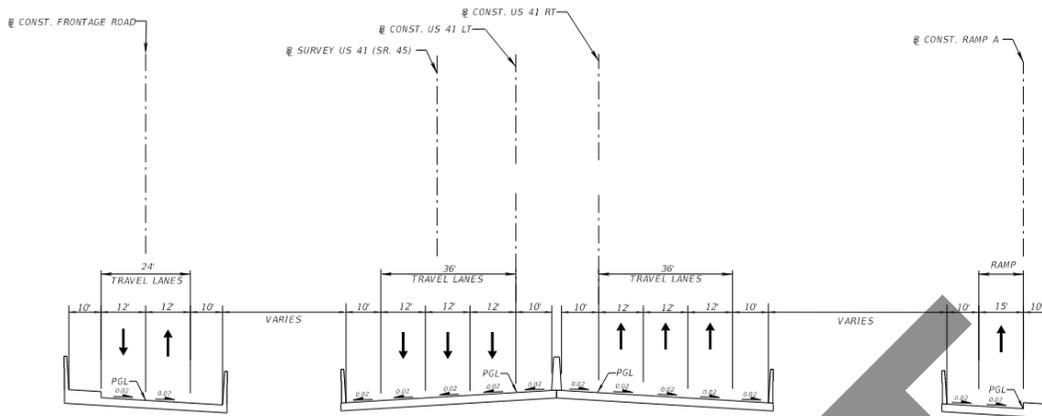


Figure 7-1: Bridge Typical Cross-sections over Delaney Creek

SECTION 8 CONCLUSIONS AND RECOMMENDATIONS

The analysis in this report indicates that the proposed bridge alternatives over Delaney Creek are feasible from a hydraulic perspective. The minor increases to the flow through the bridges will not have an adverse effect on the surrounding areas. All rises within the SWMM model have been held to 0.04 feet or less for the 100-year storm event. There are slightly higher increases for the smaller storms, but they are contained within the channel banks and do not pose a risk to adjacent properties. The proposed bridge culvert is showing rises in the HEC-RAS model for the 500-year storm. The proposed bridge is allowing more room under the road for flow over the existing condition and allowing the design highwater elevation to draw down in both models. Therefore, the bridge is the recommended alternative.

The potential scour for all bridges has been evaluated. The estimated scour from the calculated from the results of the SWMM model is 1.42 feet for the 100-year storm event and 0.65 feet for the 500-year storm event. The estimated scour computed in the HEC-RAS model for the bridge is 0.02 feet for the 100-year storm and 0.39 feet for the 500-year storm. Rubble rip rap will be installed along all bridges to mitigate any potential risk.

APPENDICES

Appendix A – Exhibits

Appendix B – Flood Investigations

Appendix C – Correspondence

Appendix D – Geotechnical Analysis and Soil Data

Appendix E – Bridge Inspection Report

Appendix F – SWMM Model Analysis

Appendix G – HEC-RAS Analysis

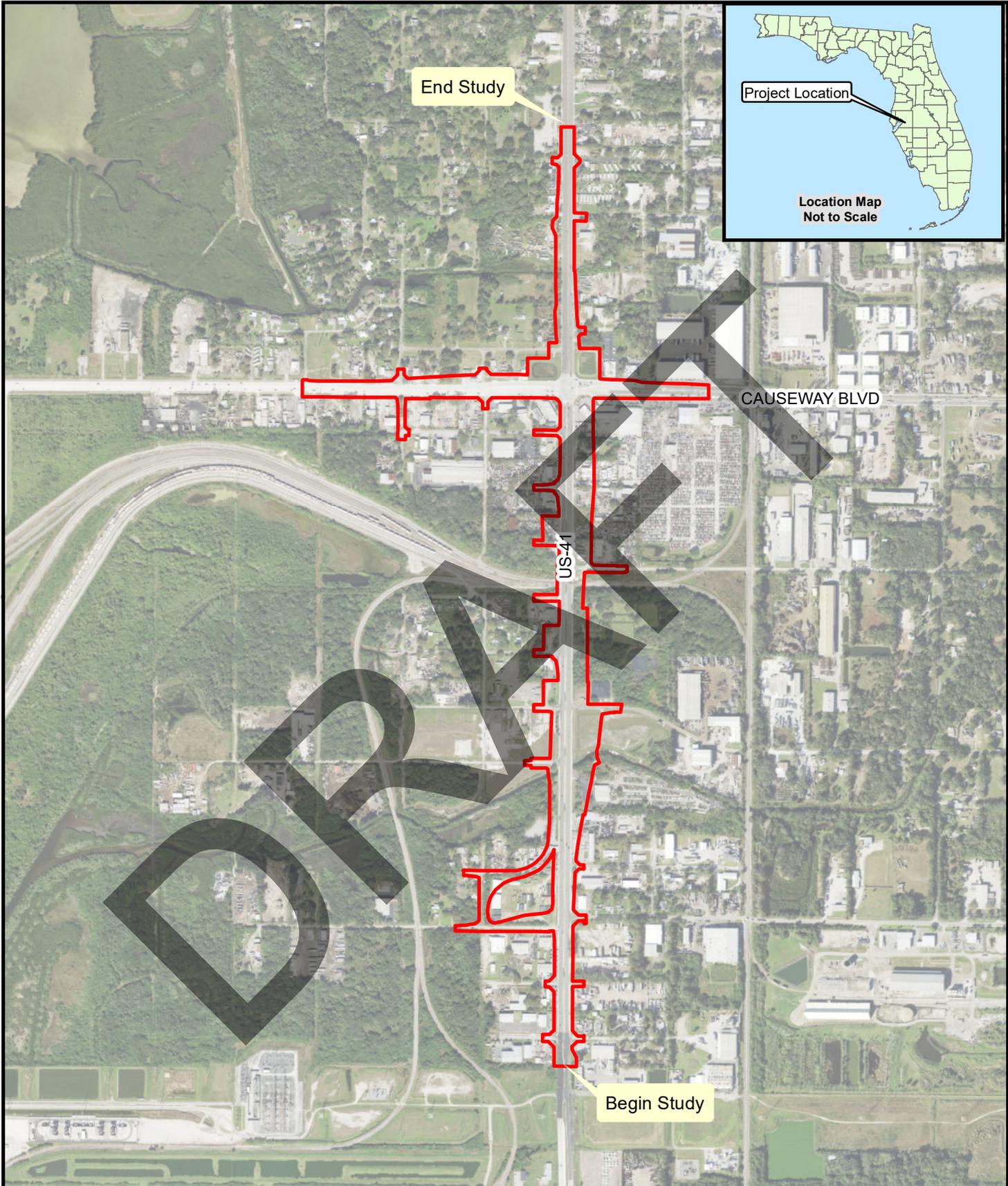
Appendix H – Scour Analysis

Appendix I – Bridge Hydraulic Recommendation Sheets

APPENDIX A

Exhibits

- Exhibit 1 – Location Map**
- Exhibit 2 – Topographic Map**
- Exhibit 3 – Existing Drainage Map**
- Exhibit 4 – Soils Map**
- Exhibit 5 – Land Use Map**
- Exhibit 6 – FEMA Map**
- Exhibit 7 – SLD US 41**
- Exhibit 8 – SLD Causeway Blvd**
- Exhibit 9 – Typical Section Package**
- Exhibit 10 – FEMA Firm Maps**



Notes:
 A- Project: 18033
 B- Data From - Imagery, Esri
 C- This map is intended for planning purposes only. This is not a survey.
 Date: 10/05/2022
 Drawn By: VV
 Reviewed By: EAL

Explanation of Features

 Project Limits



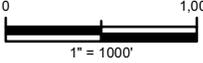
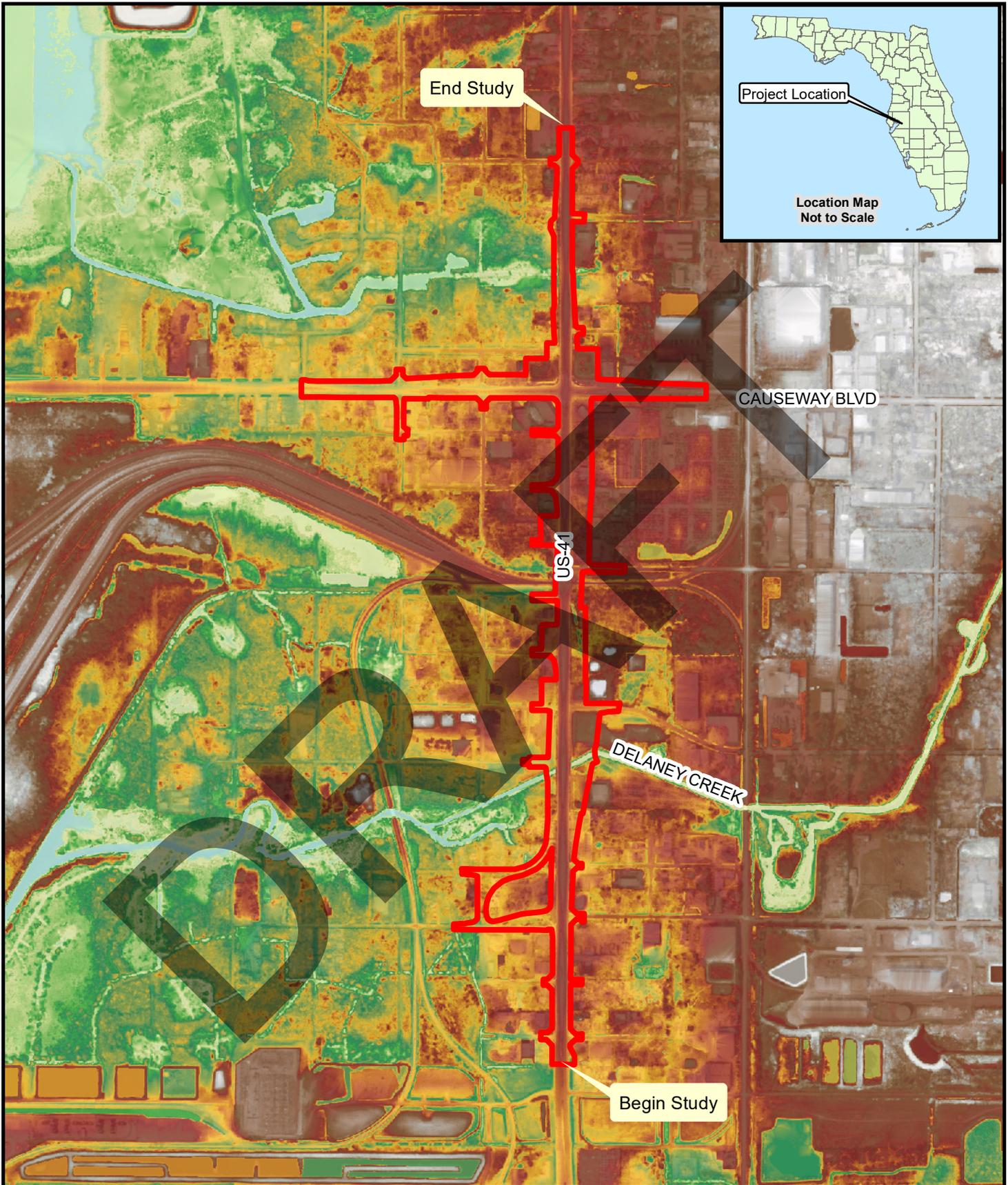

 1" = 1000'



Figure 1
Location Map
US41 at CSX
440749-1
Hillsborough County, FL



Notes:

- A- Project: 18033
- B- Data From - Imagery, Esri
- C- This map is intended for planning purposes only. This is not a survey.

Date: 10/05/2022
 Drawn By: VV
 Reviewed By: EAL

Explanation of Features

 Project Limits

 High : 21.2331
 Low : -1.89339

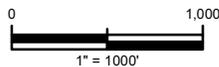
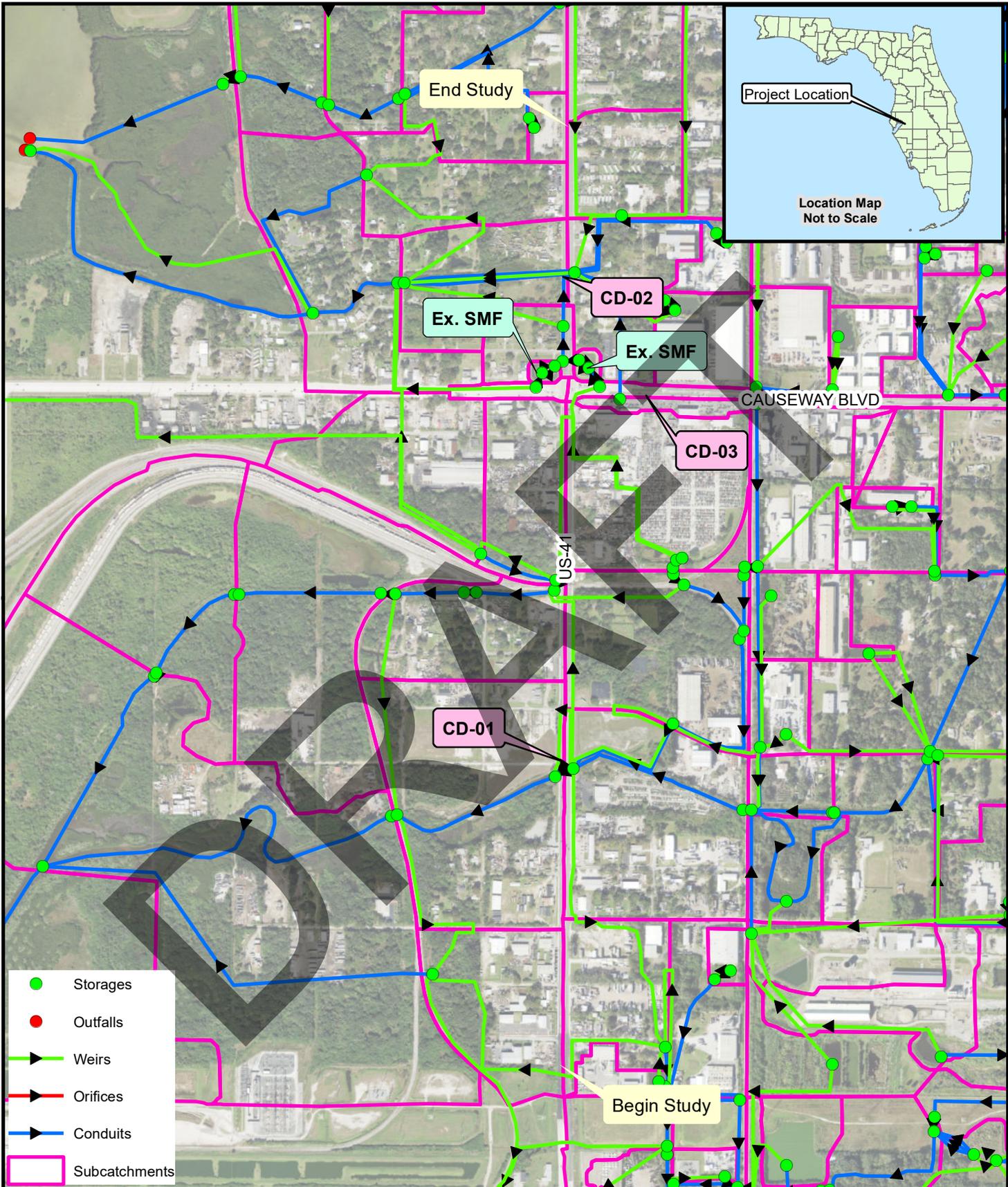


Figure 2
Topographic Map
US41 at CSX
440749-1
Hillsborough County, FL

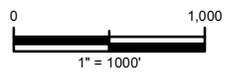


- Storages
- Outfalls
- Weirs
- Orifices
- Conduits
- Subcatchments

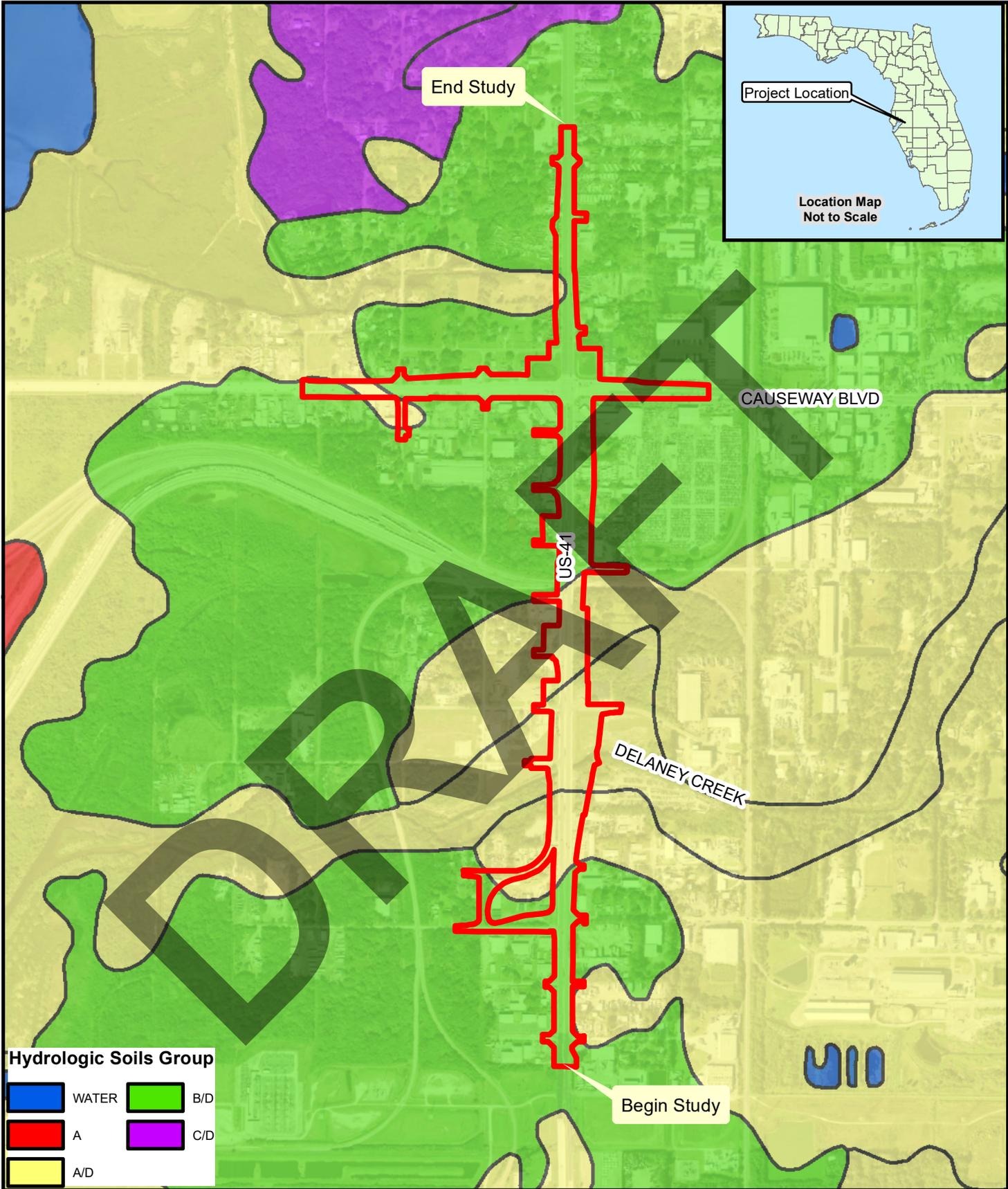
NOTES:

A- Project: 18033
 B- Data From - Imagery, Esri
 Dalaney Creek Model
 C- This map is intended for planning purposes only. This is not a survey.
 Date: 10/05/2022
 Drawn By: VV
 Reviewed By: EAL

Explanation of Features



**Existing Drainage Map
 US41 at CSX
 440749-1
 Hillsborough County, FL**



Hydrologic Soils Group

| | | | |
|---|-------|---|-----|
|  | WATER |  | B/D |
|  | A |  | C/D |
|  | A/D | | |

Notes:

- A- Project: 18033
- B- Data From - Imagery, Esri
- C- This map is intended for planning purposes only. This is not a survey.

Date: 10/05/2022
 Drawn By: VV
 Reviewed By: EAL

Explanation of Features

 Project Limits

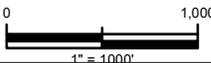
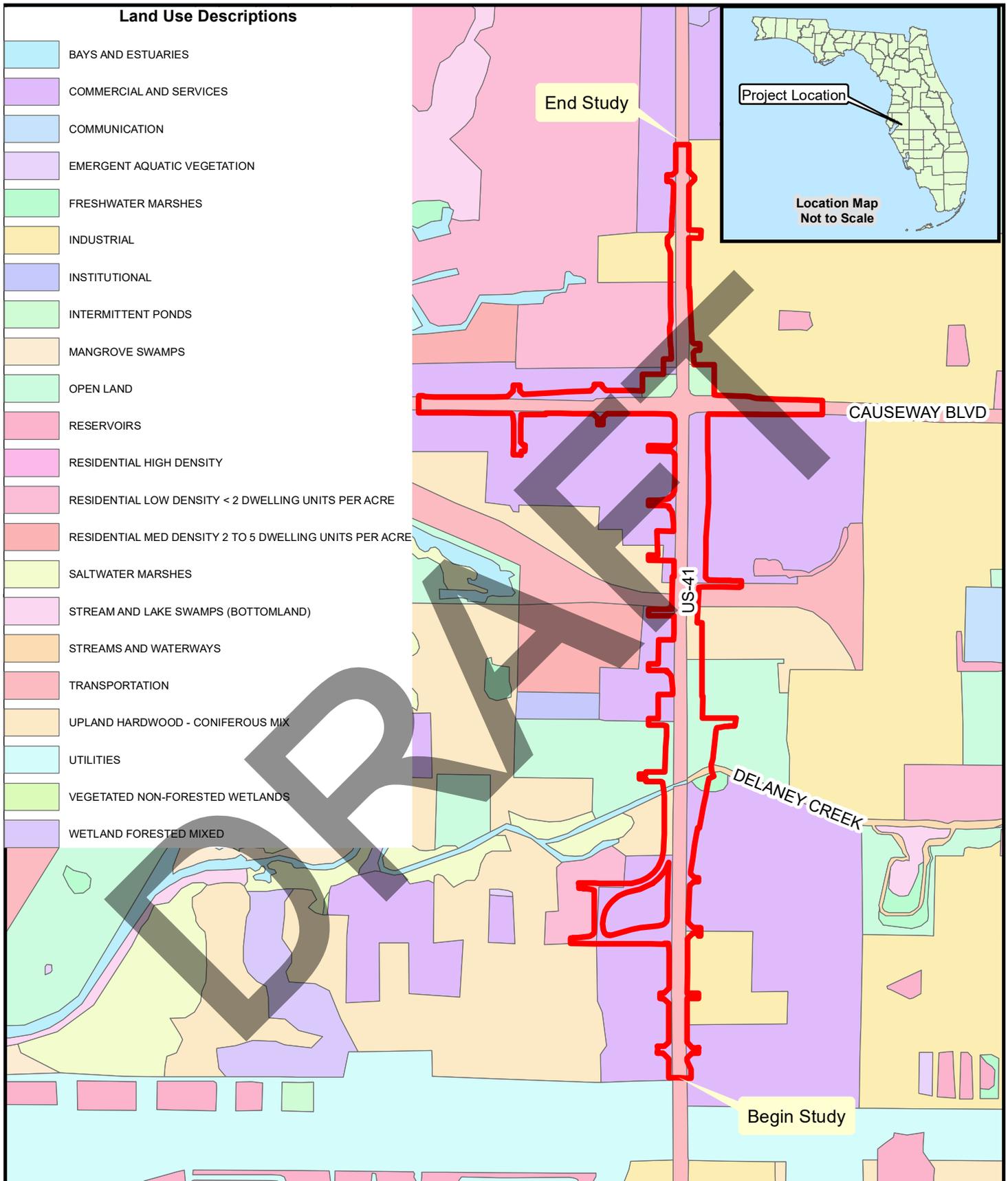
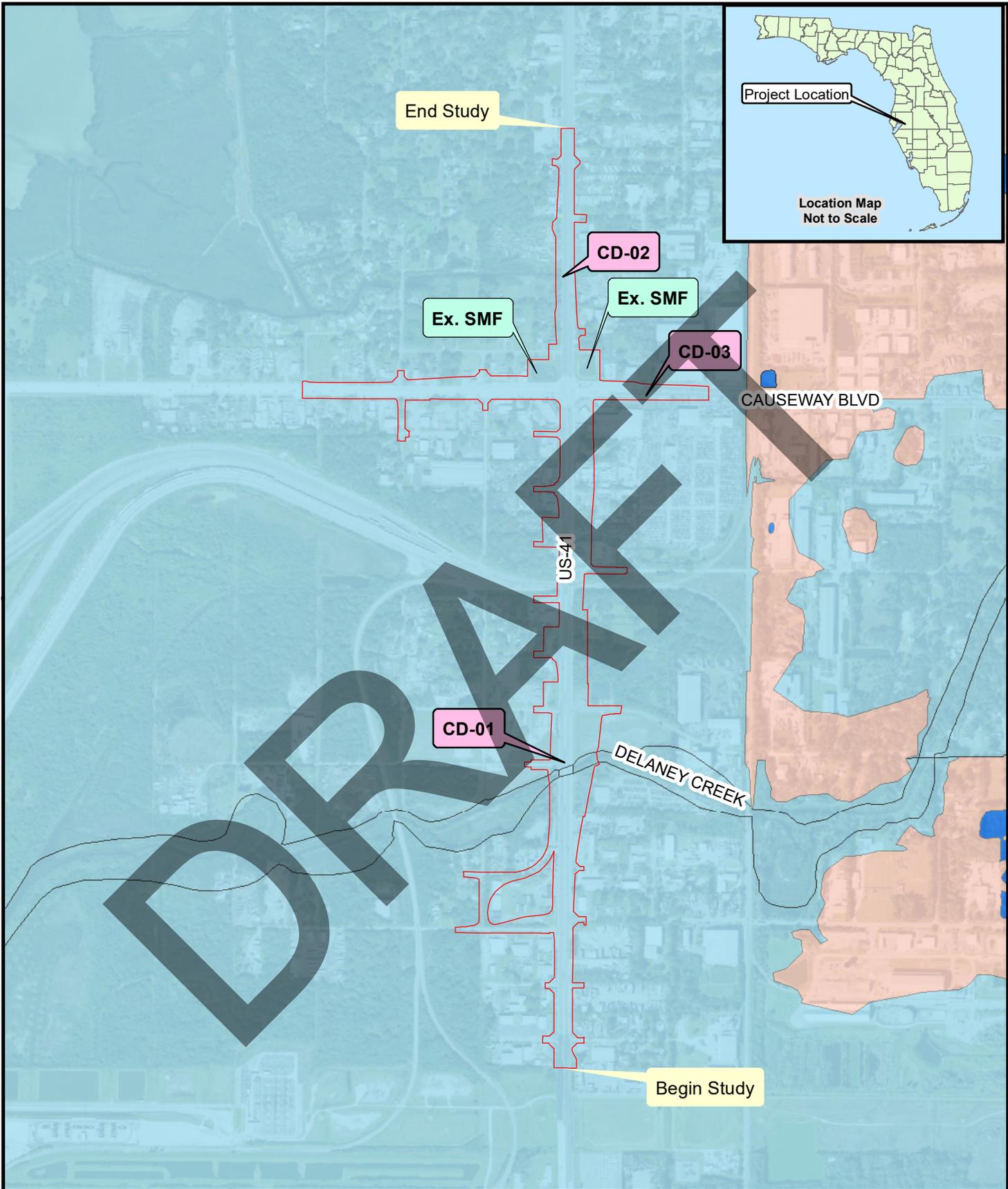



Figure 4
Soils Map
US41 at CSX
440749-1
Hillsborough County, FL



| | | | |
|--|--|--|--|
| <p>Notes:</p> <p>A- Project: 18033</p> <p>B- Data From - Imagery, Esri</p> <p>C- This map is intended for planning purposes only. This is not a survey.</p> <p>Date: 10/05/2022 Drawn By: VV Reviewed By: EAL</p> | <p>Explanation of Features</p> <p> Project Limits</p> <p></p> <p> 1" = 1000'</p> |  | <p>Figure 5 Land Use Map US41 at CSX 440749-1 Hillsborough County, FL</p> |
|--|--|--|--|

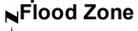
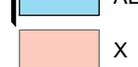


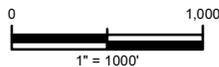
Notes:

- A- Project: 18033
- B- Data From - Imagery, Esri
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Date: 10/05/2022
 Drawn By: VV
 Reviewed By: EAL

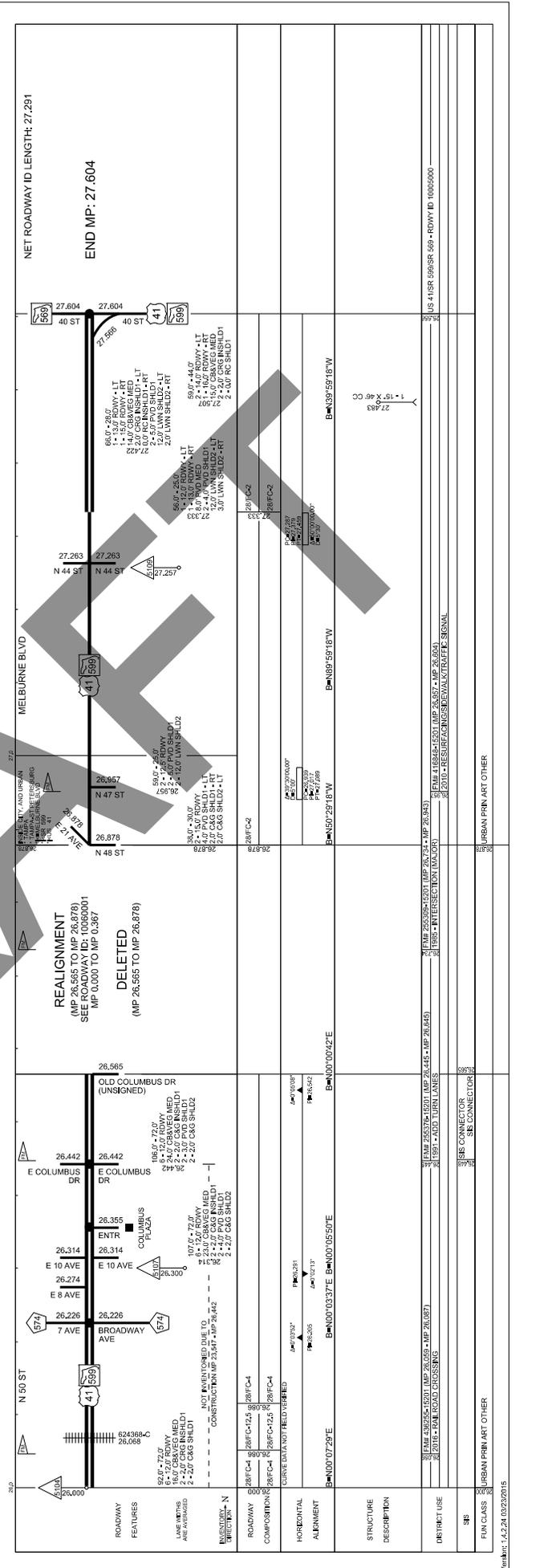
Explanation of Features

| | |
|---|----------------|
|  | Project Limits |
|  | A |
|  | AE |
|  | X |



**Figure 6
 FEMA Map
 US41 at CSX
 440749-1
 Hillsborough County, FL**

| DATE | BY | SURVEY | DATE | BY | DATE | BY | SECTION STATUS | INT. OF US ROUTE NO. | SR 45/SR 599 | COUNTY | HILLSBOROUGH | DISTRICT | 07 | ROADWAY ID | 10 060 000 4 OF 7 | SHEET NO. |
|--|-----------|------------|---------|------------|-------|----|----------------|----------------------|--------------|--------------|--------------|----------|-------------------|------------|-------------------|-----------|
| 03/13/2015 | FTE/JW-JR | 03/25/2015 | FTE/JKA | 08/16/2017 | TLEGA | | 12 | US 41 | | HILLSBOROUGH | | 07 | 10 060 000 4 OF 7 | | | |
| <p>FLORIDA DEPARTMENT OF TRANSPORTATION STRAIGHT LINE DIAGRAM OF ROAD INVENTORY</p> | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| <p>Begin Project</p> <p>End Project</p> | | | | | | | | | | | | | | | | |
| <p>ROADWAY FEATURES</p> <p>LANE WIDTHS ARE AVERAGED</p> <p>NUMBER OF LANES</p> <p>ROADWAY</p> <p>COMPOSITION</p> <p>HORIZONTAL ALIGNMENT</p> <p>STRUCTURE DESCRIPTION</p> <p>DISTRICT USE</p> <p>SE</p> <p>FIN CLASS</p> | | | | | | | | | | | | | | | | |
| <p>ROADWAY FEATURES</p> <p>LANE WIDTHS ARE AVERAGED</p> <p>NUMBER OF LANES</p> <p>ROADWAY</p> <p>COMPOSITION</p> <p>HORIZONTAL ALIGNMENT</p> <p>STRUCTURE DESCRIPTION</p> <p>DISTRICT USE</p> <p>SE</p> <p>FIN CLASS</p> | | | | | | | | | | | | | | | | |



Vertical: 1, 2, 2.2, 03/20/2015

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

TYPICAL SECTION PACKAGE

FINANCIAL PROJECT ID 440749-1-52-01
HILLSBOROUGH COUNTY (10060000)
US 41/SR 45/SR 599 FROM SOUTH OF SR 676/CAUSEWAY BOULEVARD INTERSECTION
TO NORTH OF THE SR 676/CAUSEWAY BOULEVARD INTERSECTION

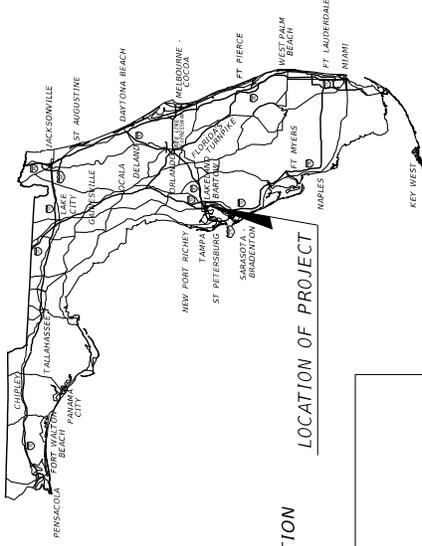
PROJECT LOCATION URL: <https://tinyurl.com/2biushcz6>

PROJECT LIMITS: BEGIN MP 22.578 TO END MP 23.925

EXCEPTIONS: NONE

BRIDGE LIMITS: BR#1 MP 22.999 TO MP 23.015
 BR#2 MP 23.076 TO MP 23.104
 BR#3 MP 23.228 TO MP 23.306

RAILROAD CROSSING: CSX CROSSING: 624802A - MP 23.271



LOCATION OF PROJECT

APPROVED BY:



THIS ITEM HAS BEEN DIGITALLY
 SIGNED AND SEALED BY
Branah R Anderson
 2022.10.14 13:02:40 -04'00'
 ON THE DATE ADJACENT TO THE SEAL
 PRINTED COPIES OF THIS DOCUMENT ARE
 NOT CONSIDERED SIGNED AND SEALED
 AND THE SIGNATURE MUST BE VERIFIED
 ON ANY ELECTRONIC COPIES.

THE ABOVE NAMED PROFESSIONAL ENGINEER SHALL BE RESPONSIBLE FOR THE
 FOLLOWING SHEETS IN ACCORDANCE WITH RULE 61G15-23.004, F.A.C.

INDEX OF SHEETS

| SHEET NO | SHEET DESCRIPTION |
|----------|------------------------|
| 1 | COVER SHEET NO. 1 |
| 2 | TYPICAL SECTION NO. 2 |
| 3 | TYPICAL SECTION NO. 3 |
| 4 | TYPICAL SECTION NO. 4 |
| 5 | TYPICAL SECTION NO. 5 |
| 6 | TYPICAL SECTION NO. 6 |
| 7 | TYPICAL SECTION NO. 7 |
| 8 | TYPICAL SECTION NO. 8 |
| 9 | TYPICAL SECTION NO. 9 |
| 10 | TYPICAL SECTION NO. 10 |
| 11 | TYPICAL SECTION NO. 11 |
| 12 | TYPICAL SECTION NO. 12 |

| | |
|-----------|---|
| SHEET NO. | 1 |
|-----------|---|

PROJECT CONTROLS

CONTEXT CLASSIFICATION

- () C1 : NATURAL (X) C3C : SUBURBAN COMM.
- () C2 : RURAL () C4 : URBAN GENERAL
- () C2T : RURAL TOWN () C5 : URBAN CENTER
- () C3R : SUBURBAN RES. () C6 : URBAN CORE
- () N/A : L.A. FACILITY

FUNCTIONAL CLASSIFICATION

- () INTERSTATE () MAJOR COLLECTOR
- () FREEWAY/EXP.WY. () MINOR COLLECTOR
- (X) PRINCIPAL ARTERIAL () LOCAL
- () MINOR ARTERIAL

HIGHWAY SYSTEM

- () NATIONAL HIGHWAY SYSTEM
- (X) STRATEGIC INTERMODAL SYSTEM
- (X) STATE HIGHWAY SYSTEM
- () OFF-STATE HIGHWAY SYSTEM

ACCESS CLASSIFICATION

- () 1 - FREEWAY
- () 2 - RESTRICTIVE w/Service Roads
- () 3 - RESTRICTIVE w/660 ft. Connection Spacing
- () 4 - NON-RESTRICTIVE w/2640 ft. Signal Spacing
- () 5 - RESTRICTIVE w/440 ft. Connection Spacing
- () 6 - NON-RESTRICTIVE w/1320 ft. Signal Spacing
- (X) 7 - BOTH MEDIAN TYPES

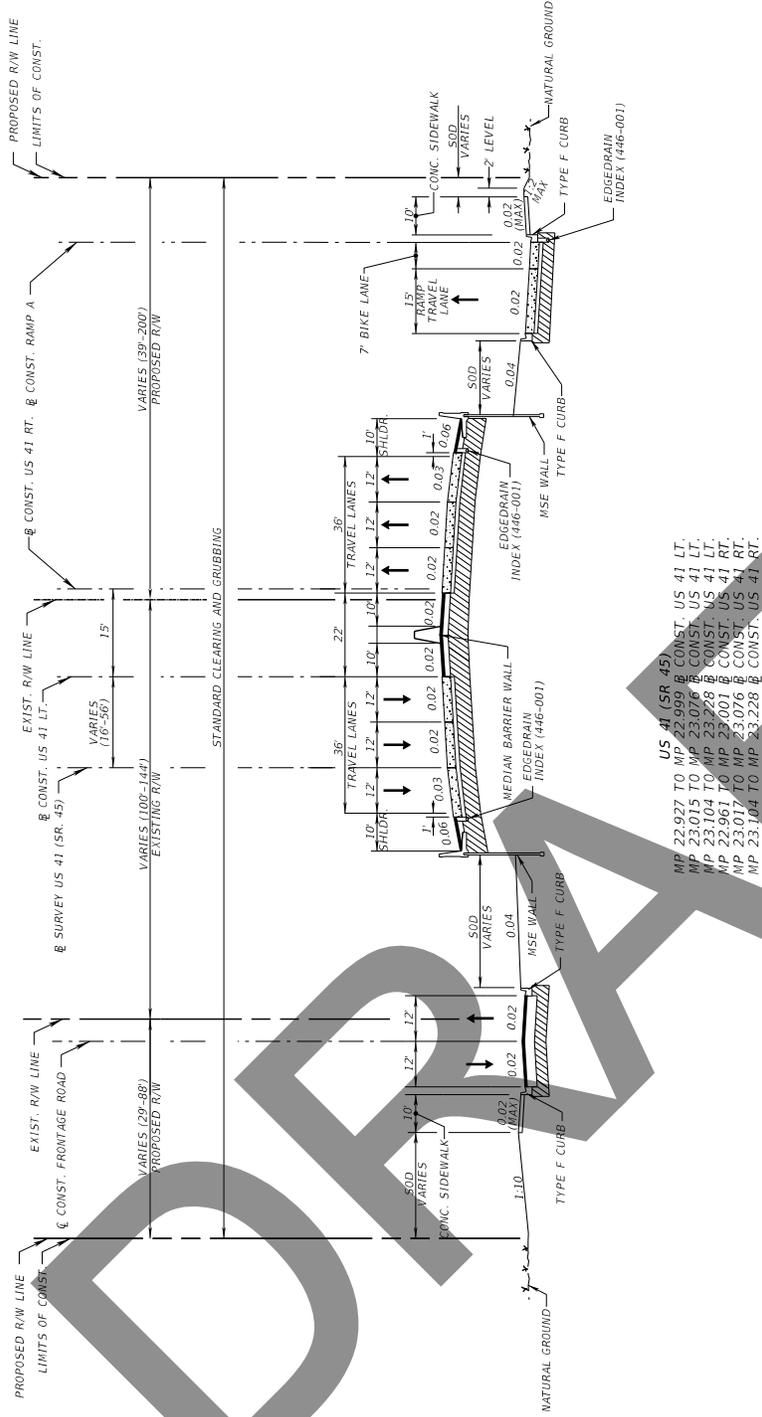
CRITERIA

- (X) NEW CONSTRUCTION / RECONSTRUCTION
- () RESURFACING (LA FACILITIES)
- () RRR (ARTERIALS & COLLECTORS)

POTENTIAL EXCEPTIONS AND VARIATIONS RELATED TO TYPICAL SECTION:

- DESIGN VARIATIONS
- T) SHOULDER CROSS SLOPE

TYPICAL SECTION No. 2



US 41 (SR 45)
 MP 22.927 TO MP 23.097 @ CONST. US 41 LT.
 MP 23.015 TO MP 23.076 @ CONST. US 41 LT.
 MP 23.104 TO MP 23.228 @ CONST. US 41 LT.
 MP 22.961 TO MP 23.001 @ CONST. US 41 RT.
 MP 23.017 TO MP 23.076 @ CONST. US 41 RT.
 MP 23.104 TO MP 23.228 @ CONST. US 41 RT.

TRAFFIC DATA

CURRENT YEAR = 2018 AADT = 39,000
 ESTIMATED OPENING YEAR = 2026 AADT = 49,600
 ESTIMATED DESIGN YEAR = 2046 AADT = 72,600
 K = 9% D = 72.4% T = 1.3% (24 HOUR)
 DESIGN HOUR T = 7.0%
 2046 TRUCK DDHV = 331

US 41 / SR 45
 DESIGN SPEED = 50 MPH
 POSTED SPEED = 30 MPH
 FRONTAGE ROAD
 DESIGN SPEED = 35 MPH
 POSTED SPEED = 30 MPH
 RAMP
 DESIGN SPEED = 40 MPH
 POSTED SPEED = 40 MPH

NOT TO SCALE

| | |
|----------------------|----------------|
| FINANCIAL PROJECT ID | 440749-1-52-01 |
| SHEET NO. | 3 |

PROJECT CONTROLS

CONTEXT CLASSIFICATION

- () C1 : NATURAL (X) C3C : SUBURBAN COMM.
- () C2 : RURAL () C4 : URBAN GENERAL
- () C2T : RURAL TOWN () C5 : URBAN CENTER
- () C3R : SUBURBAN RES. () C6 : URBAN CORE
- () N/A : L.A. FACILITY

FUNCTIONAL CLASSIFICATION

- () INTERSTATE () MAJOR COLLECTOR
- () FREEWAY/EXPWAY. () MINOR COLLECTOR
- (X) PRINCIPAL ARTERIAL () LOCAL
- () MINOR ARTERIAL

HIGHWAY SYSTEM

- () NATIONAL HIGHWAY SYSTEM
- (X) STRATEGIC INTERMODAL SYSTEM
- (X) STATE HIGHWAY SYSTEM
- () OFF-STATE HIGHWAY SYSTEM

ACCESS CLASSIFICATION

- () 1 - FREEWAY
- () 2 - RESTRICTIVE w/Service Roads
- () 3 - RESTRICTIVE w/660 ft. Connection Spacing
- () 4 - NON-RESTRICTIVE w/2640 ft. Signal Spacing
- () 5 - RESTRICTIVE w/440 ft. Connection Spacing
- () 6 - NON-RESTRICTIVE w/1320 ft. Signal Spacing
- (X) 7 - BOTH MEDIAN TYPES

CRITERIA

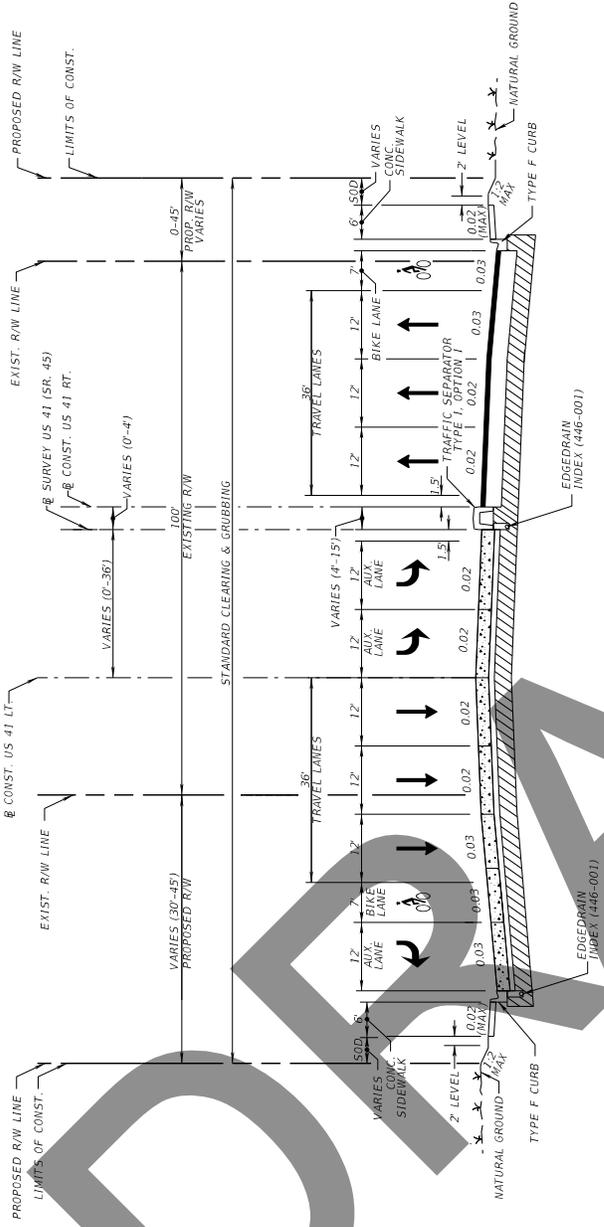
- (X) NEW CONSTRUCTION / RECONSTRUCTION
- () RESURFACING (LA FACILITIES)
- () RRR (ARTERIALS & COLLECTORS)

POTENTIAL EXCEPTIONS AND VARIATIONS RELATED TO TYPICAL SECTION:

DESIGN VARIATIONS

- 1) CURB ON HIGH SPEED FACILITY

TYPICAL SECTION No. 4



US 41 (SR 45)
MP 23.555 TO MP 23.925 @ CONST. US 41 LT.
MP 23.555 TO MP 23.925 @ CONST. US 41 RT.

TRAFFIC DATA

CURRENT YEAR = 2018 AADT = 39,000
ESTIMATED OPENING YEAR = 2026 AADT = 49,600
ESTIMATED DESIGN YEAR = 2046 AADT = 72,600
K = 5% D = 72.4% T = 13% (24 HOUR)
DESIGN TRUCK COMPOSITION = 7.0%
2046 TRUCK DDHV = 331

US 41 / SR 45
DESIGN SPEED = 50 MPH
POSTED SPEED = 50 MPH

NOT TO SCALE

| | |
|----------------------|----------------|
| FINANCIAL PROJECT ID | 440749-1-52-01 |
| SHEET NO. | 5 |

TYPICAL SECTION No. 5

PROJECT CONTROLS

CONTEXT CLASSIFICATION

- () C1 : NATURAL (X) C3C : SUBURBAN COMM.
- () C2 : RURAL () C4 : URBAN GENERAL
- () C2T : RURAL TOWN () C5 : URBAN CENTER
- () C3R : SUBURBAN RES. () C6 : URBAN CORE
- () N/A : L.A. FACILITY

FUNCTIONAL CLASSIFICATION

- () INTERSTATE () MAJOR COLLECTOR
- () FREEWAY/EXPWAY. () MINOR COLLECTOR
- (X) PRINCIPAL ARTERIAL () LOCAL
- () MINOR ARTERIAL

HIGHWAY SYSTEM

- () NATIONAL HIGHWAY SYSTEM
- (X) STRATEGIC INTERMODAL SYSTEM
- (X) STATE HIGHWAY SYSTEM
- () OFF-STATE HIGHWAY SYSTEM

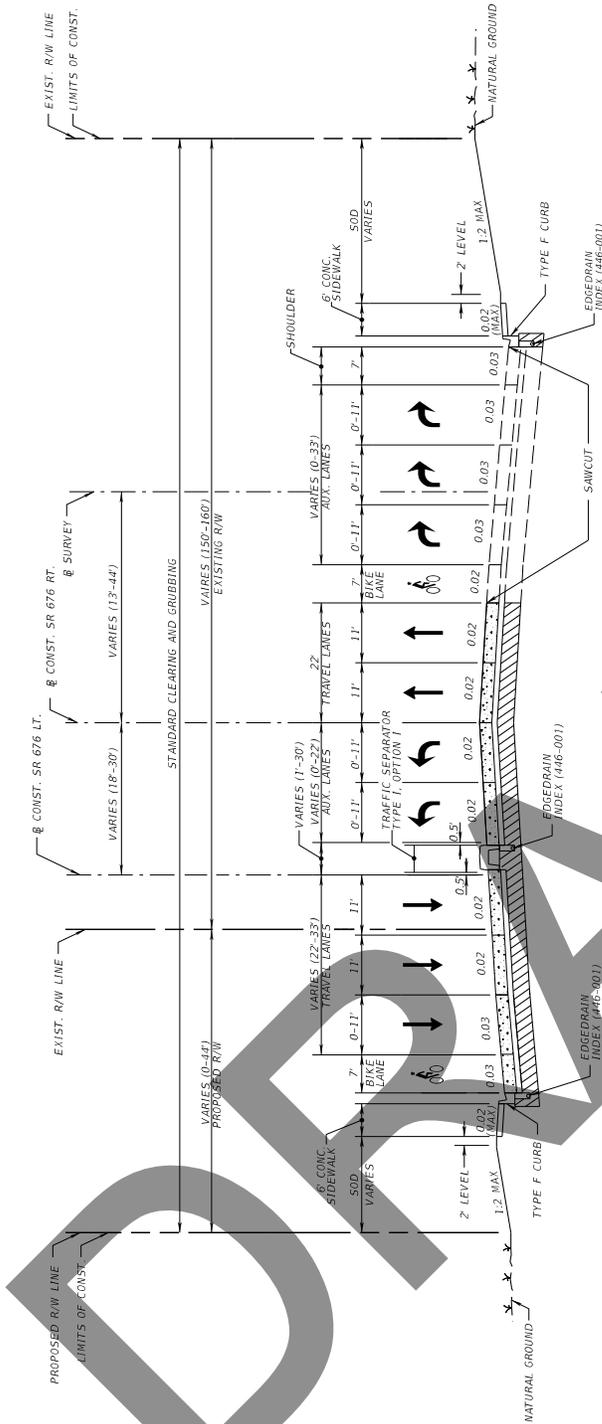
ACCESS CLASSIFICATION

- () 1 - FREEWAY
- () 2 - RESTRICTIVE w/Service Roads
- () 3 - RESTRICTIVE w/660 ft. Connection Spacing
- () 4 - NON-RESTRICTIVE w/2640 ft. Signal Spacing
- (X) 5 - RESTRICTIVE w/440 ft. Connection Spacing
- () 6 - NON-RESTRICTIVE w/1320 ft. Signal Spacing
- () 7 - BOTH MEDIAN TYPES

CRITERIA

- (X) NEW CONSTRUCTION / RECONSTRUCTION
- () RESURFACING (LA FACILITIES)
- () RRR (ARTERIALS & COLLECTORS)

POTENTIAL EXCEPTIONS AND VARIATIONS RELATED TO TYPICAL SECTION:



SR 676 (CAUSEWAY BLVD.)
 MP 3.554 TO MP 3.176 @ CONST. CAUSEWAY LT.
 MP 3.554 TO MP 3.175 @ CONST. CAUSEWAY RT.

TRAFFIC DATA

CURRENT YEAR = 2018 AADT = 28,000
 ESTIMATED OPENING YEAR = 2026 AADT = 42,600
 ESTIMATED DESIGN YEAR = 2046 AADT = 65,900
 K = 9% D = 12.4% T = 13% (24 HOUR)
 P.E. = 7.0%
 2046 TRUCK DDHV = 304
 SR 676 / CAUSEWAY BLVD.
 DESIGN SPEED = 45 MPH
 POSTED SPEED = 45 MPH

NOT TO SCALE

| | |
|----------------------|----------------|
| FINANCIAL PROJECT ID | 440749-1-52-01 |
| SHEET NO. | 6 |

PROJECT CONTROLS

CONTEXT CLASSIFICATION

- () C1 : NATURAL (X) C3C : SUBURBAN COMM.
- () C2 : RURAL () C4 : URBAN GENERAL
- () C2T : RURAL TOWN () C5 : URBAN CENTER
- () C3R : SUBURBAN RES. () C6 : URBAN CORE
- () N/A : L.A. FACILITY

FUNCTIONAL CLASSIFICATION

- () INTERSTATE () MAJOR COLLECTOR
- () FREEWAY/EXPWY. () MINOR COLLECTOR
- (X) PRINCIPAL ARTERIAL () LOCAL
- () MINOR ARTERIAL

HIGHWAY SYSTEM

- () NATIONAL HIGHWAY SYSTEM
- () STRATEGIC INTERMODAL SYSTEM
- (X) STATE HIGHWAY SYSTEM
- () OFF-STATE HIGHWAY SYSTEM

ACCESS CLASSIFICATION

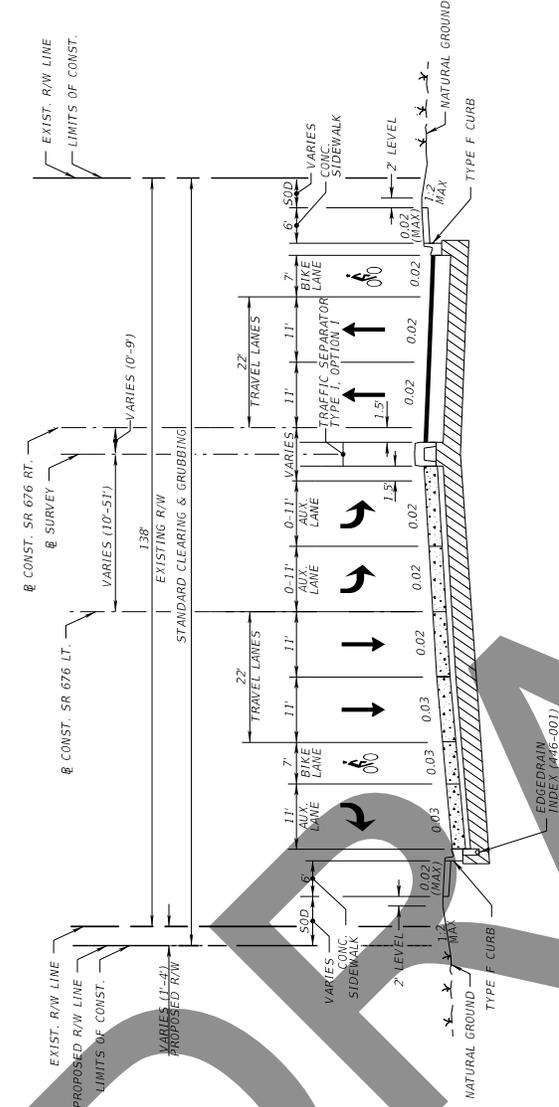
- () 1 - FREEWAY
- () 2 - RESTRICTIVE w/Service Roads
- () 3 - RESTRICTIVE w/660 ft. Connection Spacing
- () 4 - NON-RESTRICTIVE w/2640 ft. Signal Spacing
- (X) 5 - RESTRICTIVE w/440 ft. Connection Spacing
- () 6 - NON-RESTRICTIVE w/1320 ft. Signal Spacing
- () 7 - BOTH MEDIAN TYPES

CRITERIA

- (X) NEW CONSTRUCTION / RECONSTRUCTION
- () RESURFACING (LA FACILITIES)
- () RRR (ARTERIALS & COLLECTORS)

POTENTIAL EXCEPTIONS AND VARIATIONS RELATED TO TYPICAL SECTION:

TYPICAL SECTION No. 6



TRAFFIC DATA

CURRENT YEAR = 2018 ADOT = 28,000
 ESTIMATED DESIGN YEAR = 2026 ADOT = 42,600
 ESTIMATED DESIGN YEAR = 2046 ADOT = 65,900
 K = 9% D = 72.4% T = 13% (24 HOUR)
 DESIGN HOUR T = 7.0%
 2046 TRUCK DDHV = 304
 SR 676 / CAUSEWAY BLVD.
 DESIGN SPEED = 45 MPH
 POSTED SPEED = 45 MPH

NOT TO SCALE

| | |
|----------------------|----------------|
| FINANCIAL PROJECT ID | 440749-1-52-01 |
| SHEET NO. | 7 |

PROJECT CONTROLS

CONTEXT CLASSIFICATION

- () C1 : NATURAL (X) C3C : SUBURBAN COMM.
- () C2 : RURAL () C4 : URBAN GENERAL
- () C2T : RURAL TOWN () C5 : URBAN CENTER
- () C3R : SUBURBAN RES. () C6 : URBAN CORE
- () N/A : L.A. FACILITY

FUNCTIONAL CLASSIFICATION

- () INTERSTATE () MAJOR COLLECTOR
- () FREEWAY/EXPWAY. () MINOR COLLECTOR
- () PRINCIPAL ARTERIAL (X) LOCAL
- () MINOR ARTERIAL

HIGHWAY SYSTEM

- () NATIONAL HIGHWAY SYSTEM
- () STRATEGIC INTERMODAL SYSTEM
- () STATE HIGHWAY SYSTEM
- (X) OFF-STATE HIGHWAY SYSTEM

ACCESS CLASSIFICATION

- () 1 - FREEWAY
- () 2 - RESTRICTIVE w/Service Roads
- () 3 - RESTRICTIVE w/660 ft. Connection Spacing
- () 4 - NON-RESTRICTIVE w/2640 ft. Signal Spacing
- () 5 - RESTRICTIVE w/440 ft. Connection Spacing
- () 6 - NON-RESTRICTIVE w/1320 ft. Signal Spacing
- (X) 7 - BOTH MEDIAN TYPES

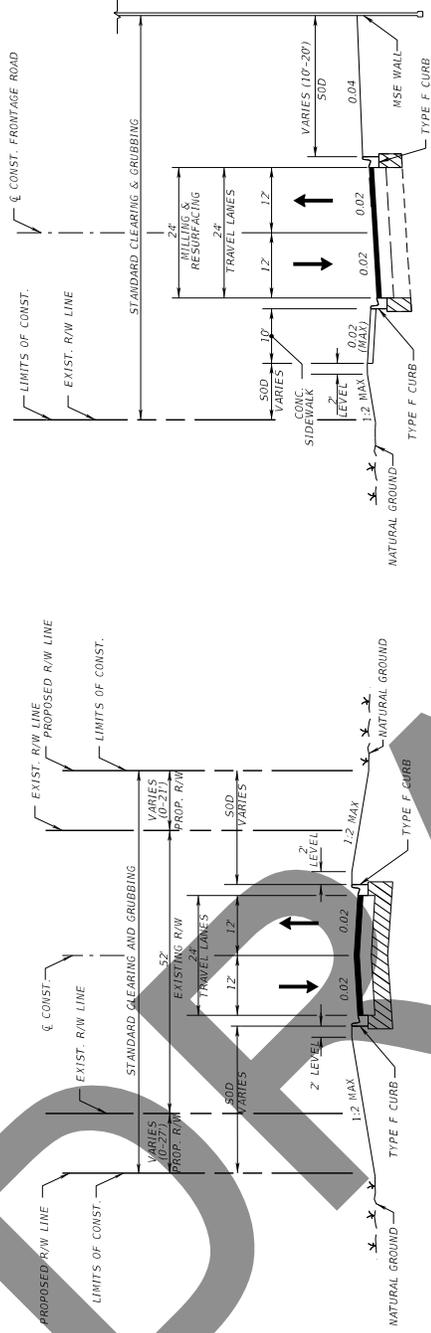
CRITERIA

- (X) NEW CONSTRUCTION / RECONSTRUCTION
- () RESURFACING (LA FACILITIES)
- () RRR (ARTERIALS & COLLECTORS)

POTENTIAL EXCEPTIONS AND VARIATIONS RELATED TO TYPICAL SECTION:

- DESIGN VARIATIONS
- 1) BIKE LANE WIDTH

TYPICAL SECTION No. 8



HARTFORD ST.
MP 0.000 TO MP 0.189 @ CONST. HARTFORD ST.
TOWNAWAY AVE. / 36TH AVE.
MP 0.000 TO MP 0.122 @ CONST. 36TH ST.
ST. PAUL ST.
MP 0.000 TO MP 0.09 @ CONST. ST PAUL ST.
FRONTAGE RD.
MP 0.000 TO MP 0.194 @ CONST. FRONTAGE RD.

FRONTAGE RD.
MP 0.375 TO MP 0.758 @ CONST. FRONTAGE RD.

TRAFFIC DATA

CURRENT YEAR = 2018 AADT = 39,000
ESTIMATED OPENING YEAR = 2026 AADT = 49,600
ESTIMATED DESIGN YEAR = 2046 AADT = 72,600
K = 9% D = 72.4% T = 13% (24 HOUR)
DESIGN HOUR T = 7.0%
2046 TRUCK DDHV = 331

HARTFORD ST.
DESIGN SPEED = 35 MPH
POSTED SPEED = 30 MPH
TOWNAWAY AVE. / 36TH ST.
DESIGN SPEED = 35 MPH
POSTED SPEED = 30 MPH
ST. PAUL ST.
DESIGN SPEED = 35 MPH
POSTED SPEED = 30 MPH
FRONTAGE RD.
DESIGN SPEED = 35 MPH
POSTED SPEED = 30 MPH

NOT TO SCALE

| | |
|----------------------|----------------|
| FINANCIAL PROJECT ID | 440749-1-52-01 |
| SHEET NO. | 9 |

PROJECT CONTROLS

CONTEXT CLASSIFICATION

- () C1 : NATURAL (X) C3C : SUBURBAN COMM.
- () C2 : RURAL () C4 : URBAN GENERAL
- () C2T : RURAL TOWN () C5 : URBAN CENTER
- () C3R : SUBURBAN RES. () C6 : URBAN CORE
- () N/A : L.A. FACILITY

FUNCTIONAL CLASSIFICATION

- () INTERSTATE () MAJOR COLLECTOR
- () FREEWAY/EXP.WY. () MINOR COLLECTOR
- (X) PRINCIPAL ARTERIAL () LOCAL
- () MINOR ARTERIAL

HIGHWAY SYSTEM

- () NATIONAL HIGHWAY SYSTEM
- (X) STRATEGIC INTERMODAL SYSTEM
- (X) STATE HIGHWAY SYSTEM
- () OFF-STATE HIGHWAY SYSTEM

ACCESS CLASSIFICATION

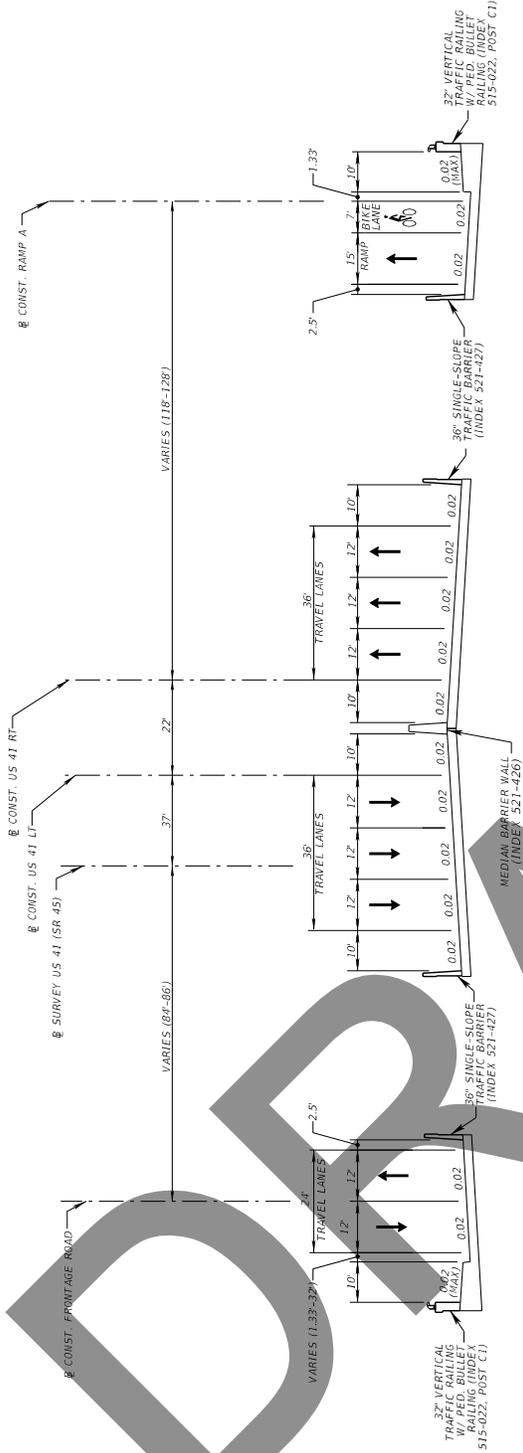
- () 1 - FREEWAY
- () 2 - RESTRICTIVE w/Service Roads
- () 3 - RESTRICTIVE w/660 ft. Connection Spacing
- () 4 - NON-RESTRICTIVE w/2640 ft. Signal Spacing
- () 5 - RESTRICTIVE w/440 ft. Connection Spacing
- () 6 - NON-RESTRICTIVE w/1320 ft. Signal Spacing
- (X) 7 - BOTH MEDIAN TYPES

CRITERIA

- (X) NEW CONSTRUCTION / RECONSTRUCTION
- () RESURFACING (LA FACILITIES)
- () RRR (ARTERIALS & COLLECTORS)

POTENTIAL EXCEPTIONS AND VARIATIONS RELATED TO TYPICAL SECTION:

TYPICAL SECTION No. 9



US 41 (SR 45) OVER DELANEY CREEK
 MP 22.959 TO MP 23.015 @ CONST. US 41 LT.
 MP 23.001 TO MP 23.017 @ CONST. US 41 RT.

TRAFFIC DATA

CURRENT YEAR = 2018 AADT = 39,000
 ESTIMATED OPENING YEAR = 2026 AADT = 49,600
 ESTIMATED DESIGN YEAR = 2046 AADT = 72,600
 K = 9% D = 72.4% T = 1.3% (24 HOUR)
 DESIGN HOUR T = 7.0%
 2046 TRUCK DDHV = 331

US 41 / SR 45
 DESIGN SPEED = 50 MPH
 POSTED SPEED = 50 MPH

NOT TO SCALE

| | |
|----------------------|----------------|
| FINANCIAL PROJECT ID | 440749-1-52-01 |
| SHEET NO. | 10 |

PROJECT CONTROLS

CONTEXT CLASSIFICATION

- () C1 : NATURAL (X) C3C : SUBURBAN COMM.
- () C2 : RURAL () C4 : URBAN GENERAL
- () C2T : RURAL TOWN () C5 : URBAN CENTER
- () C3R : SUBURBAN RES. () C6 : URBAN CORE
- () N/A : L.A. FACILITY

FUNCTIONAL CLASSIFICATION

- () INTERSTATE () MAJOR COLLECTOR
- () FREEWAY/EXPWAY. () MINOR COLLECTOR
- (X) PRINCIPAL ARTERIAL () LOCAL
- () MINOR ARTERIAL

HIGHWAY SYSTEM

- () NATIONAL HIGHWAY SYSTEM
- (X) STRATEGIC INTERMODAL SYSTEM
- (X) STATE HIGHWAY SYSTEM
- () OFF-STATE HIGHWAY SYSTEM

ACCESS CLASSIFICATION

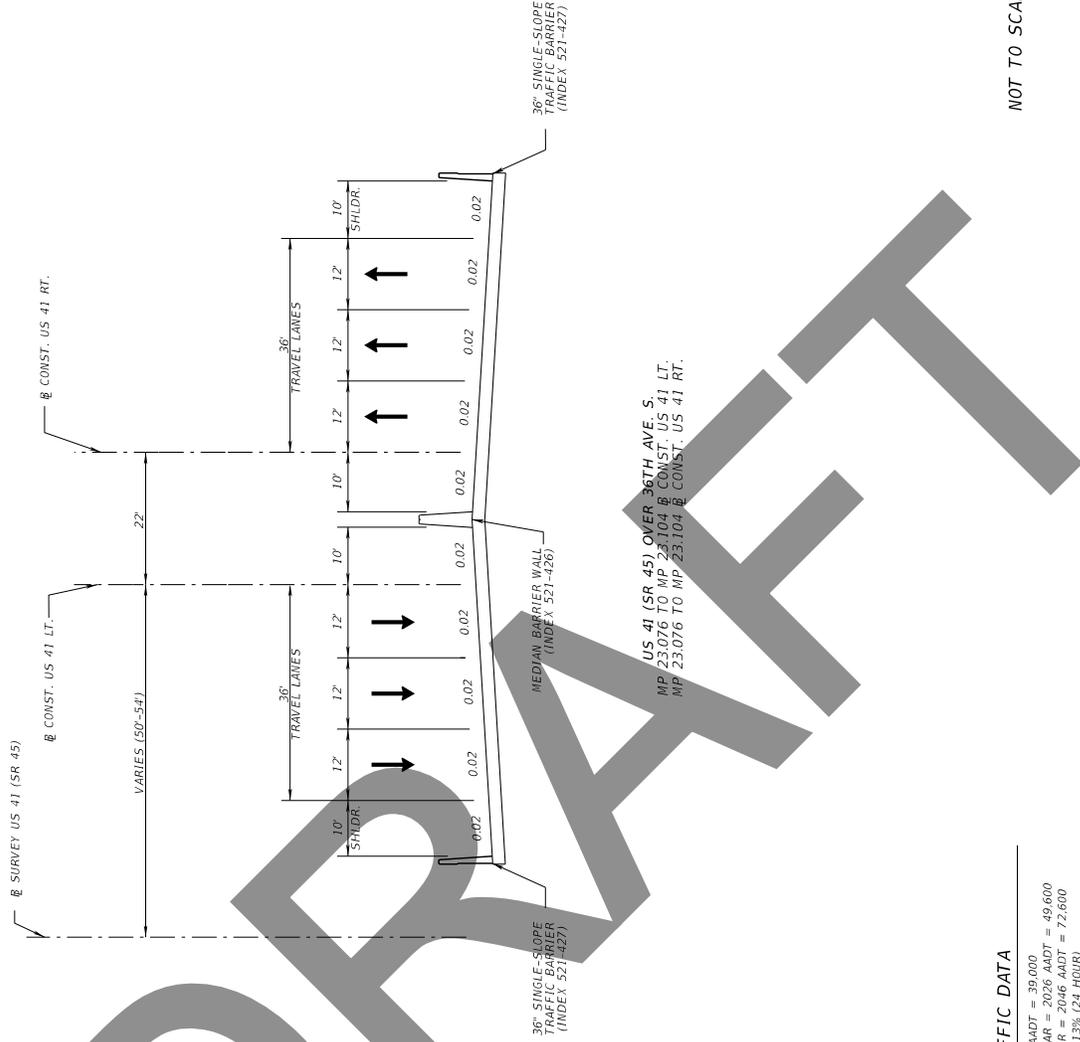
- () 1 - FREEWAY
- () 2 - RESTRICTIVE w/Service Roads
- () 3 - RESTRICTIVE w/660 ft. Connection Spacing
- () 4 - NON-RESTRICTIVE w/2640 ft. Signal Spacing
- () 5 - RESTRICTIVE w/440 ft. Connection Spacing
- () 6 - NON-RESTRICTIVE w/1320 ft. Signal Spacing
- (X) 7 - BOTH MEDIAN TYPES

CRITERIA

- (X) NEW CONSTRUCTION / RECONSTRUCTION
- () RESURFACING (LA FACILITIES)
- () RRR (ARTERIALS & COLLECTORS)

POTENTIAL EXCEPTIONS AND VARIATIONS RELATED TO TYPICAL SECTION:

TYPICAL SECTION No. 10



TRAFFIC DATA

CURRENT YEAR = 2018 AADT = 39,000
 ESTIMATED OPENING YEAR = 2026 AADT = 49,600
 ESTIMATED DESIGN YEAR = 2046 AADT = 72,600
 K = 9% D = 72.4% T = 13% (24 HOUR)
 DESIGN HOUR T = 7.0%
 2046 TRUCK DDHV = 331

US 41 / SR 45
 DESIGN SPEED = 50 MPH
 POSTED SPEED = 50 MPH

NOT TO SCALE

FINANCIAL PROJECT ID
 440749-1-52-01

SHEET NO.
 11

PROJECT CONTROLS

CONTEXT CLASSIFICATION

- () C1 : NATURAL (X) C3C : SUBURBAN COMM.
- () C2 : RURAL () C4 : URBAN GENERAL
- () C2T : RURAL TOWN () C5 : URBAN CENTER
- () C3R : SUBURBAN RES. () C6 : URBAN CORE
- () N/A : L.A. FACILITY

FUNCTIONAL CLASSIFICATION

- () INTERSTATE () MAJOR COLLECTOR
- () FREEWAY/EXPWAY. () MINOR COLLECTOR
- (X) PRINCIPAL ARTERIAL () LOCAL
- () MINOR ARTERIAL

HIGHWAY SYSTEM

- () NATIONAL HIGHWAY SYSTEM
- (X) STRATEGIC INTERMODAL SYSTEM
- (X) STATE HIGHWAY SYSTEM
- () OFF-STATE HIGHWAY SYSTEM

ACCESS CLASSIFICATION

- () 1 - FREEWAY
- () 2 - RESTRICTIVE w/Service Roads
- () 3 - RESTRICTIVE w/660 ft. Connection Spacing
- () 4 - NON-RESTRICTIVE w/2640 ft. Signal Spacing
- () 5 - RESTRICTIVE w/440 ft. Connection Spacing
- () 6 - NON-RESTRICTIVE w/1320 ft. Signal Spacing
- (X) 7 - BOTH MEDIAN TYPES

CRITERIA

- (X) NEW CONSTRUCTION / RECONSTRUCTION
- () RESURFACING (LA FACILITIES)
- () RRR (ARTERIALS & COLLECTORS)

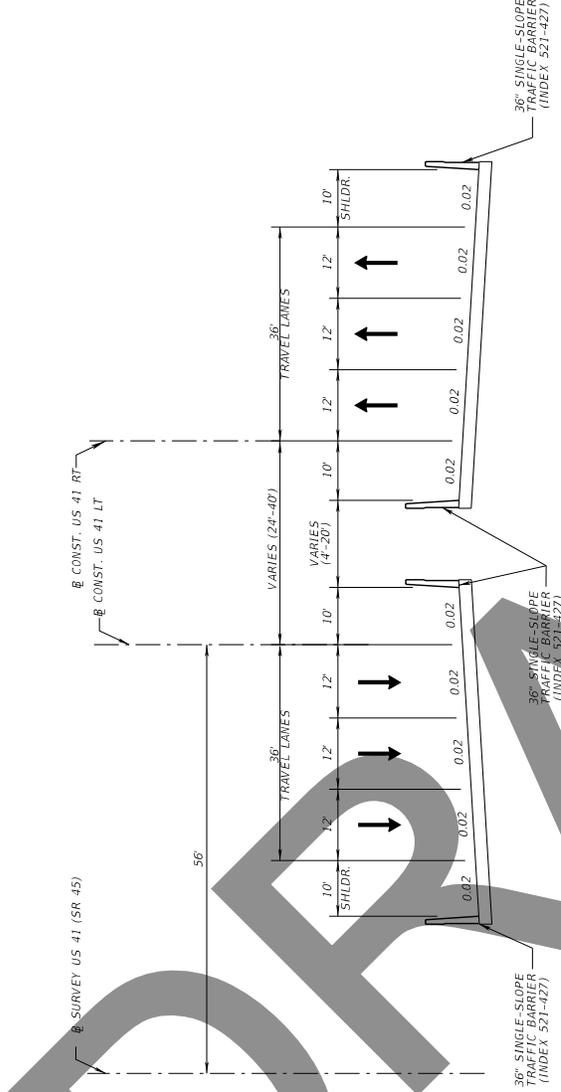
POTENTIAL EXCEPTIONS AND VARIATIONS RELATED TO TYPICAL SECTION:

TRAFFIC DATA

CURRENT YEAR = 2018 AADT = 39,000
 ESTIMATED OPENING YEAR = 2026 AADT = 49,600
 ESTIMATED DESIGN YEAR = 2046 AADT = 72,600
 K = 1.0000
 GROWTH RATE = 1.4%
 DESIGN HOUR T = 7.0%
 2046 TRUCK DDHV = 331

US 41 / SR 45
 DESIGN SPEED = 50 MPH
 POSTED SPEED = 50 MPH

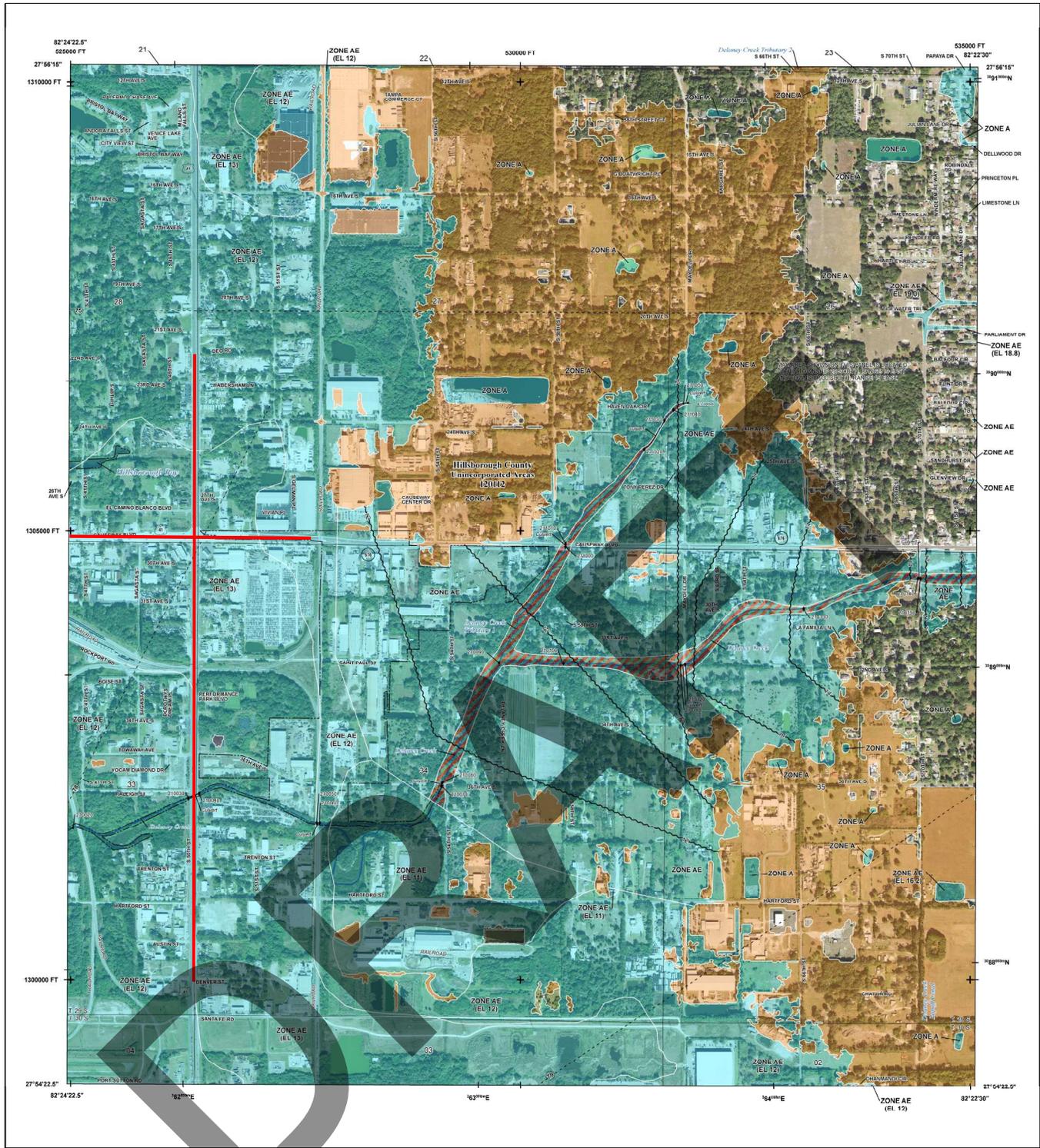
TYPICAL SECTION No. 11



US 41 (SR 45) OVER CSX
 MP 23.228 TO MP 23.306 @ CONST. US 41 LT.
 MP 23.228 TO MP 23.306 @ CONST. US 41 RT.

NOT TO SCALE

| | |
|----------------------|----------------|
| FINANCIAL PROJECT ID | 440749-1-52-01 |
| SHEET NO. | 12 |



FLOOD HAZARD INFORMATION

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT
THE INFORMATION DEPICTED ON THIS MAP AND SUPPORTING DOCUMENTATION ARE ALSO AVAILABLE IN DIGITAL FORMAT AT [HTTPS://MSC.FEMA.GOV](https://MSC.FEMA.GOV)

| | |
|--|---|
| | Without Base Flood Elevation (BFE) Zone A, V, AG |
| | With BFE or Depth Zone AE, AO, AH, VE, AR |
| | Regulatory Floodway |
| | 0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile Zone X |
| | Future Conditions 1% Annual Chance Flood Hazard Zone X |
| | Area with Reduced Flood Risk due to Levee See Notes, Zone X |
| | Area with Flood Risk due to Levee Zone D |
| | NO SCREEN Area of Minimal Flood Hazard Zone X |
| | Area of Undetermined Flood Hazard Zone D |
| | Channel, Culvert, or Storm Sewer Levee, Dike, or Floodwall |
| | Cross Sections with 1% Annual Chance Water Surface Elevation |
| | Coastal Transect |
| | Coastal Transect Baseline |
| | Profile Baseline |
| | Hydrographic Feature |
| | Base Flood Elevation Line (BFE) |
| | Limit of Study |
| | Jurisdiction Boundary |

NOTES TO USERS

For information and questions about this Flood Insurance Rate Map (FIRM), available products associated with this FIRM, including historic versions, the current map date for each FIRM panel, how to order products, or the National Flood Insurance Program (NFIP) in general, please call the FEMA Mapping and Insurance Exchange at 1-877-FEMA-Map (1-877-369-2672) or visit the FEMA Flood Map Service Center website at <https://mfc.fema.gov>. Available products may include previously issued Letters of Map Change, a Flood Insurance Study Report, and/or digital versions of this map. Many of these products can be ordered or obtained directly from the website.

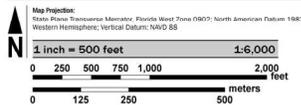
Communities desiring lead on adjacent FIRM panels must obtain a current copy of the adjacent panel as well as the current FIRM index. These may be ordered directly from the Flood Map Service Center at the number listed above.

For community and countywide map dates refer to the Flood Insurance Study Report for this jurisdiction.

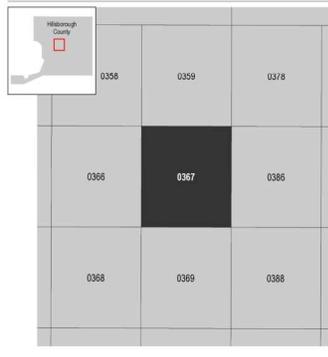
To determine if flood insurance is available in this community, contact your insurance agent or call the National Flood Insurance Program at 1-800-635-6620.

Base map information shown on this FIRM was provided by Hillsborough County, dated 2008 and 2018; the Florida Department of Transportation, dated 2017; the Florida Resources and Environmental Analysis Center, dated 2003; and the U.S. Department of Agriculture, dated 2016.

SCALE



PANEL LOCATOR



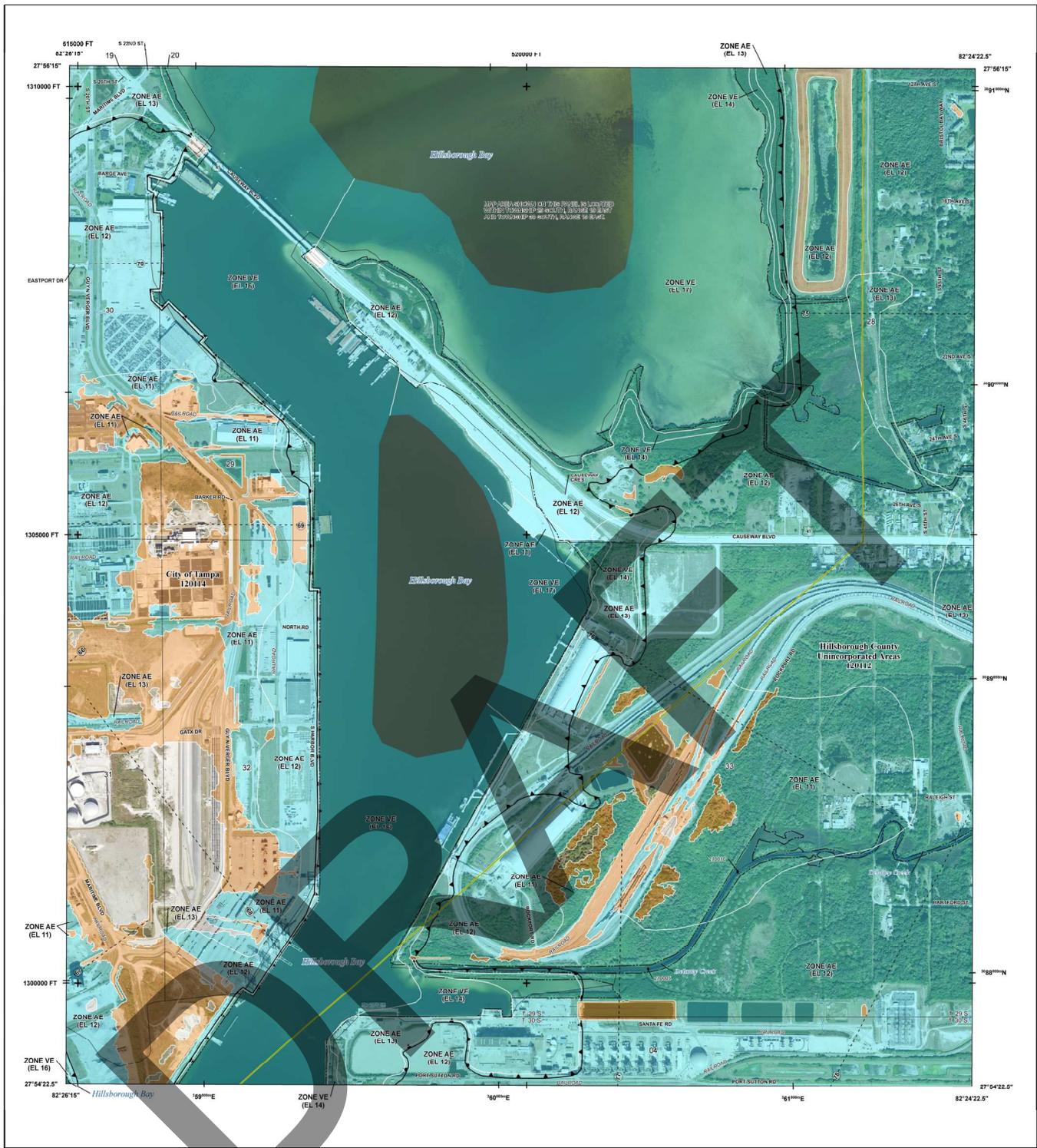
National Flood Insurance Program

**NATIONAL FLOOD INSURANCE PROGRAM
 FLOOD INSURANCE RATE MAP
 HILLSBOROUGH COUNTY,
 FLORIDA
 and Incorporated Areas**

PANEL 367 OF 801

Panel Contains:
 COMMUNITY: HILLSBOROUGH COUNTY
 NUMBER: 120112
 PANEL SUFFIX: 0367
 J

VERSION NUMBER: 2.4.3.5
 MAP NUMBER: 12057C0367J
 MAP REVISED: OCTOBER 7, 2021



FLOOD HAZARD INFORMATION

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT
THE INFORMATION DEPICTED ON THIS MAP AND SUPPORTING DOCUMENTATION ARE ALSO AVAILABLE IN DIGITAL FORMAT AT
[HTTPS://MSC.FEMA.GOV](https://MSC.FEMA.GOV)

- SPECIAL FLOOD HAZARD AREAS**
 - Without Base Flood Elevation (BFE) Zone A, V, AE9
 - With BFE or Depth Zone AE, AO, AH, VE, AR
 - Regulatory Floodway
 - 0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile Zone X
 - Future Conditions 1% Annual Chance Flood Hazard Zone X
 - Area with Reduced Flood Risk due to Levee See Notes, Zone X
 - Area with Flood Risk due to Levee Zone D
- OTHER AREAS OF FLOOD HAZARD**
 - NO SCREEN Area of Minimal Flood Hazard Zone X
 - Area of Undetermined Flood Hazard Zone D
- OTHER AREAS**
 - Channel, Culvert, or Storm Sewer Levee, Dike, or Floodwall
- GENERAL STRUCTURES**
 - Cross Sections with 1% Annual Chance Water Surface Elevation
 - Coastal Transect
 - Coastal Transect Baseline
 - Profile Baseline
 - Hydrographic Feature
 - Base Flood Elevation Line (BFE)
 - Limit of Study
 - Jurisdiction Boundary
- OTHER FEATURES**

NOTES TO USERS

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Communities receiving land on adjacent FIRM panels must obtain a current copy of the adjacent panel as well as the current FIRM Index. These may be ordered directly from the Flood Map Service Center at the number listed above.

For community and countywide map dates refer to the Flood Insurance Study Report for this jurisdiction.

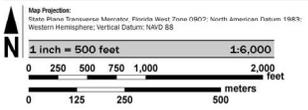
To determine if flood insurance is available in this community, contact your insurance agent or call the National Flood Insurance Program at 1-800-635-6620.

Base map information shown on this FIRM was provided by Hillsborough County, dated 2008 and 2018; the Florida Department of Transportation, dated 2017; the Florida Resources and Environmental Analysis Center, dated 2003; and the U.S. Department of Agriculture, dated 2015.

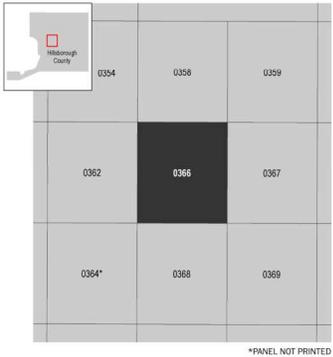
LIMIT OF MODERATE WAVE ACTION: Zone AE has been divided by a Limit of Moderate Wave Action (LMWA). The LMWA represents the approximate seaward limit of the 1.5-foot breaking wave. The effects of wave hazards between Zone Vc and the LMWA (or between the LMWA and the Levee for areas where Zone Vc is not identified) will be similar to, but less severe than, those in the Zone VE.

Limit of Moderate Wave Action (LMWA)

SCALE



PANEL LOCATOR



National Flood Insurance Program

NATIONAL FLOOD INSURANCE PROGRAM
FLOOD INSURANCE RATE MAP
HILLSBOROUGH COUNTY, FLORIDA
 and Unincorporated Areas
 PANEL 366 OF 801

Panel Contains:
COMMUNITY
HILLSBOROUGH COUNTY

NUMBER PANEL SUFFIX
120112 0366 J

VERSION NUMBER
2.4.3.5

MAP NUMBER
12057C0366J

MAP REVISED
OCTOBER 7, 2021

DRAFT

APPENDIX B

Flood Investigations

Persons Interviewed and Attended Field Review-

08/30/06

Harry of Harry's Auto Body Located at 4141 Causeway Blvd.

09/11/06

Jennifer Green (FDOT Drainage), John Mauthner (FDOT Drainage), Robert Zaccaro (FDOT Maintenance), Donnie (FDOT Maintenance), and Mr. Bill Hess (Property Owner).

FDOT Maintenance cleaned the swale on 9/11/06. Maintenance noted that the swale was at the correct elevation. Mr. Hess stated that he was satisfied with the cleaning of the swale. We advised Mr. Hess to contact Tampa Maintenance if the swale is in need of cleaning in the future. We also advised Mr. Hess that his property is below the 100-yr flood elevation and that his property may experience flooding during major storm events.

SECTION III, PROBLEM ANALYSIS

Responsible Entity for Maintenance of Outfall- FDOT Maintenance

Previous Efforts to Remedy- None. No previous complaints have been made to FDOT Maintenance or the District Office.

SECTION IV, PRELIMINARY CONCLUSIONS AND RECOMMENDATIONS

- Review of engineering documents and construction plans indicate that the property is in a low area and subject to ponding. The most recent widening of Causeway Blvd. along the property occurred in 1990 and was resurfaced in 2003, however no changes were made to the existing drainage system during either project.
- The Department's Tampa Maintenance Office has no record of flooding complaints at this site purchased in December 2005. During an onsite field review it was noted by a local business owner, who has been in the area for 20 years, that this condition has existed on this site for the past 20 years. Standing water on the driveway has not changed due to Department resurfacing projects.
- Water flows from the high point on the east side of the property along the right of way, across the driveway and into a swale in Department Right of Way. This swale fills during intense storm events which causes the water to pond in the swale. As the swale fills it connects to the ponded water on the property due to existing flat terrain in the vicinity of the property.
- The soils along Causeway Blvd. are hydrologic soil group Type B/D which is described as very poorly drained with very slow infiltration rate. The undrained areas frequently pond for very long periods of time due to the seasonal high

ground water table (SHGWT) elevation which is within 10 inches or less of the ground surface elevation.

- The property, with an estimated low ground elevation of 5.9 ft., is 5.1 ft. below the Federal Emergency Management Agency (FEMA) 100 year flood elevation of 11.0 ft and is subject to flooding in major storm events. (Information from April 17, 1984 Flood Insurance Rate Map (FIRM) Panel No. 120112 0366 C)

RECOMMENDATIONS:

Based on the above findings and the flat terrain within the property area, Department construction activities along Causeway Blvd. have not changed existing flow patterns.

Maintenance staff has cleaned the ditch to allow for the driveway to drain to the swale. If the ditch should require cleaning in the future, we advised Mr. Hess to contact the Tampa Maintenance office.

BACKUP CORRESPONDENCE:



Thomas W Gaffney/D7/FDOT
08/30/2006 11:11 AM

To Jennifer Green/D7/FDOT@FDOT
cc
bcc

Subject Re: Flooding Complaints at 4141 Causeway Blvd.

History: This message has been replied to.

No, what is the problem?

Tom Gaffney
Florida Department of Transportation
Operations Manager
813-744-6038
Be Safe and watch for Motorcyclists
Jennifer Green/D7/FDOT

Jennifer Green/D7/FDOT
08/30/2006 08:50 AM

To Thomas W Gaffney/D7/FDOT@FDOT
cc
Subject Flooding Complaints at 4141 Causeway Blvd.

Tom,
Are you aware of any flooding complaints or maintenance issues at 4141 Causeway Blvd.

Thank you.
Jennifer Green, E.I.
FDOT District 7 Drainage Design
Phone: 813-975-6227
Fax: 813-975-6150
jennifer.green@dot.state.fl.us

Bill Hess

4141 Causeway

787-8200

Floods all the time.

Per Megan,

John,

Set up meeting w/
Gaffney + Mr. Hess
for next week - after
meeting revise letter
and then send.

Bill Hess

(813) 787-8200 Jen.

Called @ 9:00 AM 9/8/06 ^{pm}

Called @ 2:45 PM 9/8/06 ^{pm}

Returned

No we have
The Dept.
or ENG

Standing water in ditches

September 11, 2006

Dugas

Mr. Bill Hess
P.O. Box 585
Seffner, FL 33583

business owner who in area past
was interviewed and stated
standing water discuss
else has in old project
not changed.

RE: Flooding complaint at 4141 Causeway Blvd.

Dear Mr. Hess:

We have completed the investigation of the Department's drainage system in the vicinity of 4141 Causeway Blvd. Review of engineering documents, aerial maps, construction plans, and field reviews reveal that the accumulation of water on your site is not the result of inadequacies in the design of the Department's drainage system. A summary of our investigation is as follows:

- We have no record of flooding complaints at this location. During an onsite field review it was noted by a local business owner that this condition has existed at this site for the past 20 years that he has been in the area, the standing water has not changed due to Department construction projects.

- Water flows from the high point on the east side of the property along the right of way, across the driveway and into a swale on Department Right of Way. This swale fills during intense storm events which causes the water to pond in the swale. As the swale fills it connects to the ponded water on the property due to existing flat surface conditions in the area.

- The soils along Causeway Blvd. are hydrologic soil group Type B/D which is described as ~~nearly level~~ and very poorly drained with very slow infiltration rate. ~~when wet~~. The undrained areas frequently pond for very long periods of time. The seasonal high ground water table (SHGWT) for is typically within 10 inches or less of the ground surface elevation, leaving insufficient storage for rain events.

- The property, with an estimated low ground elevation of 5.9 ft., is 5.1 ft. below the FEMA 100 year flood elevation of 11.0 ft and is subject to flooding in major storm events.

Add panel #

mentions
date
acquired.

discuss
final outfall
ditch
is tidally
influenced

due to the

Mr. Bill Hess
September 11, 2006
Page 2

Based on the above findings and the flat terrain within the property area, Department construction activities along Causeway Blvd. have not changed existing flow patterns. Maintenance staff has cleaned the ditch to allow for the driveway to drain to the swale. If the ditch should require cleaning in the future, please contact the Tampa Maintenance office at (813) 740-4166.

We would be glad to discuss our findings in detail should you desire. Please feel free to contact me at (813) 975-6162.

Sincerely,

~~Megan Arasteh, P.E.~~ *Jennifer*
District Drainage Engineer

cc: ~~Dwayne Kile, P.E., District Design Engineer~~
~~Marion Scorza, Public Information Officer~~
Tom Gaffney
Harvey Hunt
Megan Arasteh

Show limits of

Show the limits of the flooding on the pictures.

September 11, 2006

Mr. Bill Hess
P.O. Box 585
Seffner, FL 33583

RE: Flooding complaint at 4141 Causeway Blvd.

Dear Mr. Hess:

The Department has

We have completed the investigation of the Department's drainage system in the vicinity of 4141 Causeway Blvd. Review of engineering documents, aerial maps, construction plans, and field reviews reveal that the accumulation of water on your site is not the result of inadequacies in the design of the Department's drainage system. A summary of our investigation is as follows:

The Department's Manassas Tampa Maintenance has

- We have no record of flooding complaints at this location. During an onsite field review it was noted by a local business owner that this condition has existed at this site for the past 20 years that he has been in the area, the standing water has not changed due to Department construction projects.
- Water flows from the high point on the east side of the property along the right of way, across the driveway and into a swale on Department Right of Way. This swale fills during intense storm events which causes the water to pond in the swale. As the swale fills it connects to the ponded water on the property due to existing flat surface conditions in the area.
- The soils along Causeway Blvd. are hydrologic soil group Type B/D which is described as nearly level and very poorly drained with very slow infiltration rate when wet. The undrained areas frequently pond for very long periods of time. The seasonal high ground water table (SHGWT) for is typically within 10 inches or less of the ground surface elevation, leaving insufficient storage for rain events.
- The property, with an estimated low ground elevation of 5.9 ft., is 5.1 ft. below the FEMA 100 year flood elevation of 11.0 ft and is subject to flooding in major storm events.

is it just the driveway

when was the Dept project?

who is this an adjacent property owner

where is the final out fall. Do you have a tailwater condition

adjacent or terrane? vicinity of the property

due to the (SHGWT) elevation

spell out

Add panel #

(Is his property located in the low area of the basin per SWFWMD Aerials)

which is within 10 inches or less of the ground surface

Map of 27.922657,-82.408165



Flooding Location

When using any driving directions or map, it's a good idea to do a reality check and make sure the road still exists, watch out for construction, and follow all traffic safety precautions. This is only to be used as an aid in planning.

- LEGEND
- HORIZONTAL CONTROL U.S.C. & G.S.
 - FLORIDA STATE DEPT. OF TRANSPORTATION
 - TRAVERSE STATIONS
 - VERTICAL CONTROLS
 - SECTION CORNERS
 - CONTOURS
 - DEPRESSION CONTOURS
 - SPOT ELEVATIONS
 - 1927 DATUM



KEY MAP

| | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 100 | 110 | 120 | 130 | 140 | 150 | 160 | 170 | 180 | 190 | 200 |
| 100 | 110 | 120 | 130 | 140 | 150 | 160 | 170 | 180 | 190 | 200 |
| 100 | 110 | 120 | 130 | 140 | 150 | 160 | 170 | 180 | 190 | 200 |
| 100 | 110 | 120 | 130 | 140 | 150 | 160 | 170 | 180 | 190 | 200 |
| 100 | 110 | 120 | 130 | 140 | 150 | 160 | 170 | 180 | 190 | 200 |
| 100 | 110 | 120 | 130 | 140 | 150 | 160 | 170 | 180 | 190 | 200 |
| 100 | 110 | 120 | 130 | 140 | 150 | 160 | 170 | 180 | 190 | 200 |
| 100 | 110 | 120 | 130 | 140 | 150 | 160 | 170 | 180 | 190 | 200 |
| 100 | 110 | 120 | 130 | 140 | 150 | 160 | 170 | 180 | 190 | 200 |
| 100 | 110 | 120 | 130 | 140 | 150 | 160 | 170 | 180 | 190 | 200 |

NOTE: ALL SPOTS NOT SHOWN ON THIS MAP WERE OBTAINED FROM THE ORIGINAL PHOTOGRAPHY AND WERE NOT RECHECKED IN THE FIELD. THE SPOTS SHOWN ON THIS MAP WERE OBTAINED FROM THE ORIGINAL PHOTOGRAPHY AND WERE NOT RECHECKED IN THE FIELD.

THIS MAP WAS MADE FROM AERIAL PHOTOGRAPHY TAKEN ON THE WEST COAST OF FLORIDA IN 1990. THE SPOTS SHOWN ON THIS MAP WERE OBTAINED FROM THE ORIGINAL PHOTOGRAPHY AND WERE NOT RECHECKED IN THE FIELD.

CONTOUR INTERVAL: 1' (100' TO 200')
CONTOUR INTERVAL: 1' (200' TO 400')
CONTOUR INTERVAL: 1' (400' TO 600')

DATE OF BASE PHOTOGRAPHY: OCTOBER 1990
DATE OF MAPPING PHOTOGRAPHY: DECEMBER 1998

SOUTHWEST FLORIDA
WATER MANAGEMENT DISTRICT
ALAFIA RIVER BASIN
ALAFIA RE-MAP

DRAINAGE COMPLAINT INVENTORY SHEET

SECTION I, LOCATION

County: Hillsborough

State Road: SR 45 (US 41) / S. 50th Street

Location: 3630 S. 50th Street

Road Description: 6-lane, Urban.

Section/Township/Range: S34 T29S R19E

North and East coordinate: N27°54'52" / W82°24'6"

SECTION II, PROBLEM DESCRIPTION

Problem: Heavy drainage runoff and flooding of the 3630 S. 50th Street property. The roadway runoff apparently drains from the roadway onto the subject property and ultimately makes its way into the building structure. Because this property is the low point of a larger delineated area, it receives offsite runoff from the larger section of the subject property to the east, and some minor offsite flow from the abutting properties to the north and south. The contributing area has been delineated based on the field review, 1-foot aerial contour maps and the FDOT roadway drainage map; this is shown on the 1-foot aerial contour map provided in **Section A, Exhibit-A6**.

Site description and existing conditions:

The problem is primarily confined to the smaller section (west section) of the subject property located immediately adjacent to S. 50th Street; in **Section A, Exhibit-A2 and A3** show the parcel information for the subject property. The site has a centrally located building that is surrounded by an asphalt drive and parking area. The perimeter of the site outside of the parking area, which includes the poorly defined swale, is vegetated with grass and other low lying ground cover, see **Section A, Exhibit-A7**. Drainage within the subject property sheetflows out from the center of the property to the poorly defined, inadequately maintained perimeter swale; this swale provides conveyance and some

minor storage capacity. Additionally, the swale also intercepts the offsite runoff from the surrounding properties. Historically, the subject property was described as “open pasture” on the 1958 FDOT drainage map and drained west through two small drainage ditches to the FDOT DBI’s (station 236+12, 60’ RT & station 237+71, 60’ RT from 1958 roadway plans); shown on **Exhibits D2 & D3**. The east section of the subject property has been developed, with a number of established businesses, which has resulted in the alteration of the property characteristics. The current site is estimated to be 50% covered with impervious surfaces based on the field review and the aerial photo.

Generally, the drainage pattern appears to be consistent with the historical pattern shown on the FDOT drainage map; the runoff from the east section of the subject property drains to the north and west to the swale along the north side of the subject property where it is conveyed to the FDOT DBI. Historically, the runoff was directed to the FDOT DBI’s through the two small drainage ditches, however, the east section of the subject property now almost entirely drains to the swale along the north property line, which may be a symptom of the mentioned drainage problem.

The smaller, east section of the site is poorly graded and has numerous small depressional areas which pond water; the noted pavement failure appears to be the result of standing water along with heavy wheel loading from frequent truck traffic. The 1958 roadway plans indicate that the site was originally a gas station which was confirmed by the current owner. The poor grading may have resulted in part when the underground storage tanks were removed some number of years ago. When the tanks were removed the reconstructed driveway and parking may have been poorly re-graded and or may have experienced settlement as a result of insufficient backfill compaction leading to depressional areas.

Soils – According to the NRCS USDA Soil Survey for Hillsborough County, the site lies entirely within soil unit 29 (Myakka soil) which is a B/D classified hydrologic soil group having a seasonal high ground water table (SHGWT) that is generally 0-1’ below exiting grade; the soil survey is provided in **Section A, Exhibit-A5**.

Frequency – According to the owner, flooding occurs frequently following heavy rainfall events.

Estimated High Water – The Estimated High Water elevation for Delaney Creek, according to the FDOT 1958 roadway plans drainage map, is 6.0-feet. This is within 1-foot of the existing ground/site elevations within the subject property.

History of Problem – The owner and current business tenant both agreed that this has been an ongoing problem that occurs during large storm events. The owner has owned the property since at least 1987 and has indicated that the problem has become more prevalent in the last few years. The west section of the subject property and infrastructure appears to be unchanged, when compared to the 1958 FDOT roadway plans, with the exception of additional pavement. Mr. Martinez did not have or take photos documenting the mentioned flooding within the property.

- **Section B** contains photos taken of the subject property and surrounding properties.

Outfall Description – FDOT storm sewer system with discharge to Delaney Creek approximately 300' north of subject property. The tailwater (TW) for the FDOT storm sewer system is subject to the water surface profile of Delaney Creek, a tidally influenced water body.

Correspondence and Participants of Field Review:

- Mike Jaroch (HDR, Inc.) phoned Mr. Thomas Gaffney (FDOT-7 Maintenance Supervisor) 09/07/05 (813-744-6038). He indicated there is no recorded history of a flooding at this location. He stated that FDOT Maintenance had twice cleaned inside and around the existing Ditch Bottom Inlet (DBI) located just north of the north driveway for the subject property. A photo of the inlet is provided in **Section B, Photo 5**.
- Mike Jaroch phoned Mr. Martinez (813 679-9735) on Friday, September 2, 2005 and to arrange a field meeting. Mr. Martinez agreed to meet at the property and also briefly addressed the drainage/flooding problem. He indicated that he had

contacted the County and got very little help. The County eventually informed Mr. Martinez that 50th Street was a State owned roadway which led to a phone call to the FDOT-7 Maintenance Office. A record of field notes memo has been included in **Section F**.

Scheduled Field Visit on Wednesday, September 07, 2005:

- Mike Jaroch met and spoke with:
 - Alex Martinez - Subject Property Owner
 - Thomas Gaffney – FDOT-7 Maintenance Supervisor
 - Tina Letchworth – Current Business Tenant; 4-Play Adult Video
 - Ken Adams – Owner Adams Used Auto Parts, Inc; Adjacent property to the north of subject property, (813) 247-3958.

SECTION III, PROBLEM ANALYSIS

Responsible Entity for Maintenance of Outfall - Although no formal outfall exists at the site, the DBI in the northwest corner of the subject property (See 1958 FDOT roadway plans, sheet 24, Station 237+61, 60' RT) serves as the primary means for disposition of the subject property onsite runoff. This structure sets within a 10-foot by 12-foot drainage easement that allows FDOT to access it for required and periodic maintenance. Currently, the DBI has some debris buildup and vegetation that should be cleared away. It is also noted that a DBI structure was proposed along what appears to be the south property line of the subject property (See 1958 FDOT roadway plans, sheet 24, station 236+12, 60' RT); this structure was not able to be located. The 1958 proposed grate elevations are 5.9 and 5.7 for the south (Station 236+12, 60' RT) and north (Station 237+61, 60' RT) DBI's respectively.

Previous Efforts to Remedy - Mr. Gaffney stated that the Department, on at least two occasions, has cleaned out and cleared away vegetative debris from and around the DBI at station 237+61, 1958 FDOT roadway plans. It appears as though the owner tried to create a drainage improvement to move water from the front driveway and paved area, via a 4" diameter PVC pipe, to the north ditch. The 4" diameter PVC pipe is clogged and is not providing the desired conveyance; see **Section B, Photo 13**.

Problem Analyses - in addition to the field reviews and interviews a number of documents have been gathered to better analyze the problem. A listing of the reviewed documentation and observations is as follows:

- Study Site Location Map (**Section A, Exhibit-A1**)
- USGS Quad Map – Tampa, Florida, (**Section A, Exhibit-A4**)
- SWFWMD Aerial Maps, Section 34/ Township 29S/ Range 19E, August 1986, & Section 33/ Township 29S/ Range 19E, August 1986. The SWFWMD aerial contour map shows the subject property to be the low point for the delineated area draining to and through it. See **Section A, Exhibit-A6**.
- Hillsborough County Parcel Information Map (**Section A, Exhibit-A2 & A3**)
- NRCS USDA Soil Survey – Hillsborough County (**Section A**)
- SPN 1006-208, selected sheets from the latest construction set of plans for SR 45 (US 41 / S. 50th Street), provided in **Section C**. The project constructed in 1958 included full reconstruction of SR 45 from 2 to 4 lanes and included a complete storm sewer system for both onsite and offsite runoff. The 1958 roadway plans proposed DBI's that were located strategically to collect offsite runoff and convey it to the nearest outfall point.
- Historic FDOT Roadway Drainage Maps, Project No. 971, date unknown; Estimated High Water reported in 1941. Map shows minimal development and limited information regarding the project area (**Section D**).

The project site was originally a gas station with underground storage tanks. The subject property site was originally located well away from S. 50th Street prior to the widening. Additionally the original driveway area for the gas station was comprised of shell material as shown in the 1958 FDOT roadway plans and would allow for some percolation of runoff whereas the paved driveway and parking area do not allow any infiltration of stormwater runoff. The gas station was separated from the S. 50th Street roadway runoff by an existing roadside ditch that conveyed the roadway and offsite runoff to Delaney Creek through a combination of ditch and pipe conveyance. Based on the 1958 plans, offsite runoff from the properties located east of the road was conveyed west through small drainage swales to the DBI structures that are tied to the FDOT storm sewer system.

- Drainage Connection Permit Documentation: No Drainage Connection Permit exists for this site.
- SWFWMD Permit: None.

SECTION IV, PRELIMINARY CONCLUSIONS AND RECOMMENDATIONS

RECOMMENDATIONS:

It appears that the subject property is the low area of a delineated basin and also lies below the roadway profile. Although a minor amount of roadway runoff may drain into the this property, the major cause for the stated drainage/flooding problem is a due to the elevation of the property, the finished floor (FF) elevation of existing building structure, and the poor onsite grading and drainage. Calculations of the FDOT roadway contributing area are included in **Section E**.

The building FF and surrounding paved parking are at an elevation where achieving positive drainage is difficult. Both appear to be at or just above the grate elevation of the existing DBI (Grate El. 5.7) at station 237+61, 60'RT. Given a large storm event that coincides with high or mean high tide, the resultant hydraulic grade line within the FDOT storm sewer system could be at or above the grate elevation of the DBI. For example, During Hurricane Francis (September 2004), SR 45 (US 41 / S. 50th Street) was under water in the vicinity of the Delaney Creek crossing; this indicates a water elevation at or above elevation 8.0. Given this condition, the subject property immediately adjacent to the road would be inundated with 1-3 feet of water. The minor amount of runoff from the road and the onsite runoff are not the problem, but rather the tidally influenced tailwater creates the drainage or flooding condition on the subject property. Modeling data from the Hillsborough County Delaney / Archie Creek Watershed model has been included in **Section G** of this report. The model indicates that the peak stage at the US 41 crossing (Node 210040) is between elevation 5.19, for the 3-year storm event, and elevation 8.98 for the 100-year storm event. This indicates that, under the exsiting conditions, the FDOT storm drain system will be in a submerged condition for storm events greater than or equal to the 5-year storm event.

Solutions to this condition:

1. Suggest owner document observed flooding conditions with photos of the inlet and site, and note dates in order to determine if the flooding is backwater related. Raise the building to a suitable FF elevation and re-grade the site to create positive drainage away from the building towards the FDOT DBI at station 237+61, 60'RT (1958 FDOT roadway plans). Adams Used Auto Parts, Inc. constructed a new building on their site in approximately 1991. Hillsborough County requires an approved civil site plan prior to beginning construction and one of the criteria is to set the FF of any habitable building 1-foot above the established 100-year flood elevation. During Hurricane Francis, the new building on the Adams site did not experience any flooding, while an existing structure on their site that had been constructed prior to needing Hillsborough County approval did become inundated. Also see Solution 3 regarding additional DBI at station 236+12, 60'RT.

This solution requires action by the Owner of the subject property at 3630 S. 50th Street.

2. To prevent roadway runoff from entering site, re-grade the driveway openings to contain the FDOT roadway runoff within the curb and gutter section. Re-grade onsite the subject property to create positive drainage away from the building and towards the perimeter of the property. Additionally, re-establish the swale along the perimeter to maximize the storage capacity and conveyance to the FDOT DBI. To prevent debris build-up and vegetative growth around the inlet, place a concrete apron (for non-traversable slotted inlets) around the existing DBI(s) in accordance with FDOT Standard Index 232. Suggest owner document observed flooding conditions with photos of the inlet and site, and note dates in order to determine if the flooding is backwater related. See solution 3 regarding an existing DBI.

This solution requires action by both FDOT and the Owner of the subject property at 3630 S. 50th Street.

3. Determine if the DBI in the 1958 roadway plans at station 236+12, 60'RT, was actually constructed. If it is determined that the DBI exists, then it should be cleaned out to accept offsite runoff. Additionally, the subject property should be re-graded to create positive drainage away from the building and towards the perimeter of the property and the swale along the perimeter of the property should be re-establish to maximize the storage capacity and improve conveyance to the two FDOT DBI's at stations 236+12, 60'RT & 237+61, 60'RT (1958 FDOT roadway plans). To prevent debris build-up and vegetative growth around the inlets, Place a concrete apron (for non-traversable slotted inlets) around the existing DBI(s) in accordance with FDOT Standard Index 232. Suggest owner document observed flooding conditions with photos of the inlet and site, and note dates in order to determine if the flooding is backwater related.

This solution requires action by both FDOT and the Owner of the subject property at 3630 S. 50th Street.

FLOOD INVESTIGATION INVENTORY SHEET

Flood Investigation # 1006222010167

Entry Date: 6/22/2010 7:38:09 AM

Revised Date:

Completed By: Stephanie Hildreth, HDR

SECTION I: LOCATION

County - Hillsborough

State Road - SR 45, SR 599

Road Section Number -

Mile Post -

Road Description - 5 lane(s), Principal Arterial, Roadside Ditches

Roadway Separation - Undivided

Direction of Travel - Two-Way

Functional System of Road - Urban

Specific Classification of Road - Principal Arterial

Roadway Drainage - Roadside Ditches

Flooding Condition - On-System

Local Road Subject to Flooding -

Upcoming Projects -

Business Name: Chavez Auto Transport

Business/Private Property Address Subject to Flooding -

2436 South 50th Street

Tampa , FL 33619

Location:

Latitude: 27.924915

Longitude: -82.401379

Section/Township/Range - 27 / 29S / 19E

FPID -

Project is Active - Yes

SECTION II: PROBLEM DESCRIPTION

Date of Original Complaint - 5/26/2009

Complainant Name - Tania Chavez

Problem Description -

Details of the Problem - A business arrived to work to find the place under water due to the previous night's rain. They believe the FDOT's Causeway Boulevard widening project was the issue.

Frequency of Flooding - New problem

Source for Frequency Data - Local Resident/Person Interviewed

Historic High Water - No historic high water data was available.

Flooding Event High Water - No event high water was recorded.

History of Problem -

Nearest wetland, lake or pond -

SECTION III: PROBLEM ANALYSIS

Attachments

| Attachment | Attachment Type | Attachment Description |
|---|------------------------|-------------------------------|
| Tampa business floods.pdf | Other Data | Internet story by WTVT Fox 13 |
| map_chavez auto.pdf | Site Map | Aerial map |

Damages or Harm Result -

SECTION IV: CONCLUSIONS AND RECOMMENDATIONS

FLOOD INVESTIGATION INVENTORY SHEET

Flood Investigation # 1008292016754

Entry Date: 8/29/2016 5:22:49 PM
Revised Date: 9/5/2018 7:02:39 AM
Completed By: Anita Wang, FDOT

SECTION I: LOCATION

County - Hillsborough
State Road - SR 45, SR 599
Road Section Number -
Mile Post -
Road Description - 7 lane(s), Principal Arterial, Curb and Gutter Inlets/Storm Drain System
Roadway Separation - Divided w/Non-Traversable Median
Direction of Travel - Two-Way
Functional System of Road - Urban
Specific Classification of Road - Principal Arterial
Roadway Drainage - Curb and Gutter Inlets/Storm Drain System

Flooding Condition - Off-System

Local Road Subject to Flooding - 31st Ave S

Upcoming Projects -
Business Name: Shell Gas Station
Business/Private Property Address Subject to Flooding -
3103 S 50th Street
Tampa , FL

Location:
Latitude: 27.92095
Longitude: -82.40198

Section/Township/Range - 33 / 29N / 19E
FPID -
Project is Active - No

SECTION II: PROBLEM DESCRIPTION

SECTION III: PROBLEM ANALYSIS

Previous Analysis

Previous Analysis By: , on unknown date.

Previous Analysis: Adding inlets at this intersection may resolve ponding/flooding concern

Attachments

| Attachment | Attachment Type | Attachment Description |
|-----------------------------------|------------------------|-------------------------------|
| email-Closure.pdf | Other Data | closure email |

Damages or Harm Result -

SECTION IV: CONCLUSIONS AND RECOMMENDATIONS

Recommendation:

Recommendation Date:

Project Ranking:

ROADWAY FLOODING MATRIX

Ranking of the roadway hazard level based on accident data, ADT, depth and location of water, and site specific factors. 2
(Weight Factor = 10)

Ranking of the operational impacts (i.e. magnitude of vehicle speed reduction, ADT, frequency of flooding, availability of detour route, and cost to FDOT to handle problem, etc.) 0
(Weight Factor = 7)

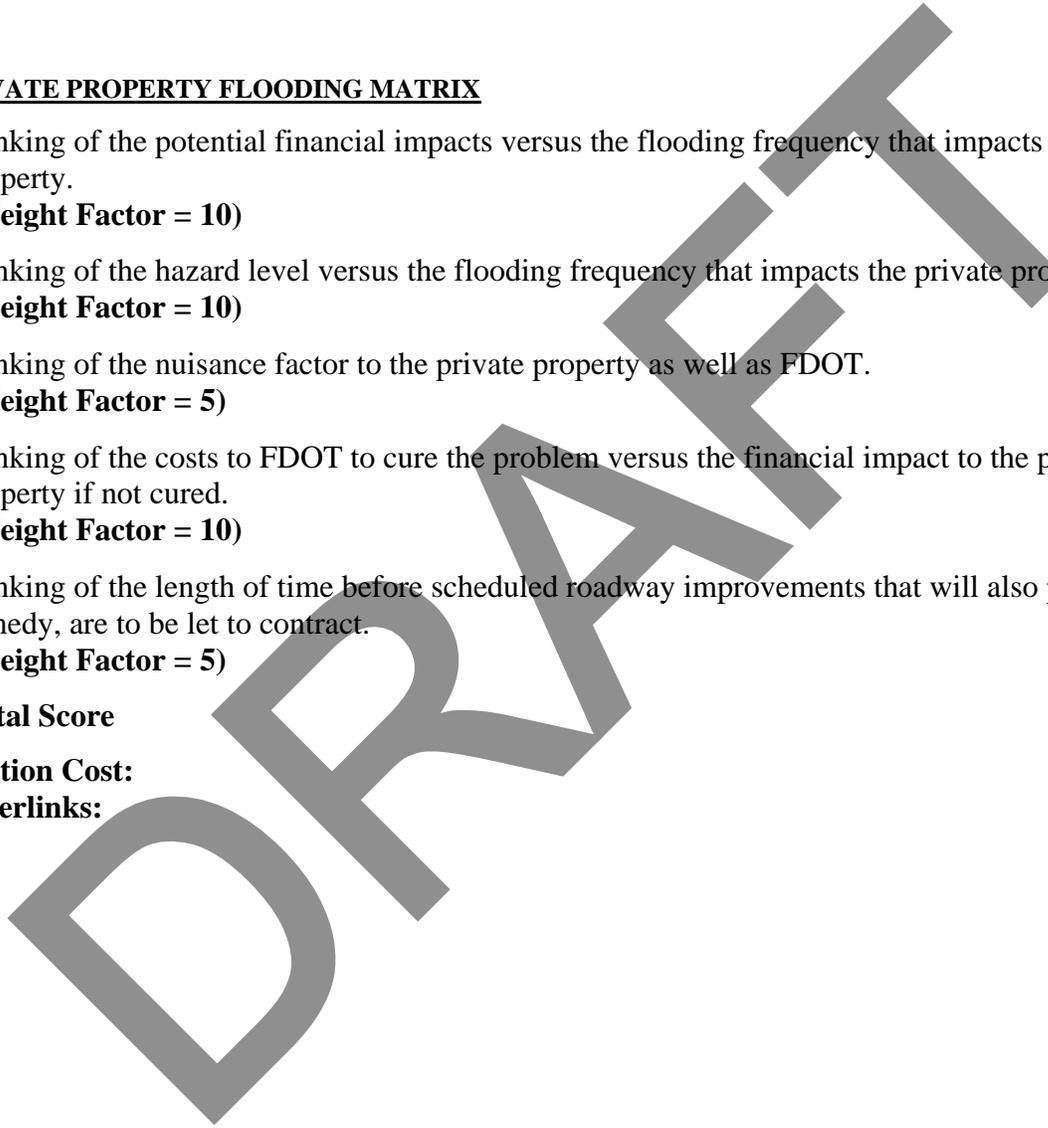
Ranking of the nuisance factor to the public and FDOT. 0
(Weight Factor = 3)

| | |
|--|-----------|
| Ranking of the length of time before scheduled roadway improvements that will also provide remedy, are to be let to contract. (Weight Factor = 5) | 0 |
| Ranking of the costs to cure the problem, if any. (Weight Factor = 5) | 0 |
| Total Score | 20 |

PRIVATE PROPERTY FLOODING MATRIX

| | |
|--|-----------|
| Ranking of the potential financial impacts versus the flooding frequency that impacts the private property. (Weight Factor = 10) | 0 |
| Ranking of the hazard level versus the flooding frequency that impacts the private property. (Weight Factor = 10) | 2 |
| Ranking of the nuisance factor to the private property as well as FDOT. (Weight Factor = 5) | 0 |
| Ranking of the costs to FDOT to cure the problem versus the financial impact to the private property if not cured. (Weight Factor = 10) | 0 |
| Ranking of the length of time before scheduled roadway improvements that will also provide remedy, are to be let to contract. (Weight Factor = 5) | 0 |
| Total Score | 20 |

Solution Cost:
Hyperlinks:



DRAFT

APPENDIX C

Correspondence



US 41/SR 45/South 50th Street at CSX Grade Separation Design Change Re-evaluation

From South of Causeway Boulevard to North of Causeway Boulevard

WPI Segment No. 440749-1

Hillsborough County, Florida

Meeting Minutes

Date: February 28, 2020
To: Craig Fox
From: Erik Fleming
Re: WPI Segment No. 440749-1

Meeting: Drainage Coordination Meeting
Date: February 25, 2020
Time: 8:30 am
Location: District 7 Office (11201 N. McKinley Drive, Tampa, FL 33612)
Attendees: FDOT – Kirk Bogen, Craig Fox, Robin Rhinesmith, Anthony Celani, Bill McTeer
FDOT GEC – Amber Russo
RK&K – Liz Lorello, Joe Baan, (Erik Fleming on phone)
KCA – (Mike Campo on phone)

Meeting Notes:

Introduction

- The meeting began with an introduction of the participants.
- Erik provided a brief overview of the project. He summarized each of the four project alternatives evaluated thus far and presented at the Alternatives Public Workshop on November 19, 2019:
 - Alternative 1 (Flyover)
 - Alternative 2 (Quadrant)
 - Alternative 3 (Diverging Diamond Interchange – DDI)
 - Alternative 4 (Single Point Urban Interchange – SPUI)
- Erik discussed a modified Alternative 4 (SPUI) with two flyover ramps for NB US 41 to WB Causeway Blvd and EB Causeway Blvd to SB US 41 that would improve future operations. This Alternative 5 would be a Modified Alternative 4. Erik mentioned that these ramps could be single lane ramps to minimize the proposed ROW footprint.
- Erik discussed a potential new alternative being developed but RK&K was waiting on Department's direction.
- Craig will be the PD&E PM and Tim O'Brien will be the design PM moving forward.
-

Preferred Alternative



US 41/SR 45/South 50th Street at CSX Grade Separation Design Change Re-evaluation

From South of Causeway Boulevard to North of Causeway Boulevard

WPI Segment No. 440749-1

Hillsborough County, Florida

- Kirk said that the Department has identified a modified version of Alternative 1 as its preferred alternative:
 - FDOT sent an email from Allan Urbonas stating a design speed of 45 mph for the flyover with a radius and shoulder widths.
 - US 41 and Causeway Boulevard intersection improvements will be modified to be all at-grade. (Remove the US 41 northbound grade separation over Causeway Boulevard)
 - NB to WB flyover will be modified to one lane with ability to be widened in the future.
 - The flyover will still land in the median of Causeway Boulevard.
 - US 41 will remain a grade separation over CSX.
 - Triple right-turn lanes for EB to SB movement will remain under signal control
- Erik asked for clarification on the frontage road configuration. Based on one-way frontage roads shown at the Alternatives Public Workshop or two-way frontage road operations revised following the workshop. Erik will provide to the Department the frontage road configuration concepts for review and final determination.
- Traffic analysis will need to be updated for the preferred alternative.
- The Department desires to construct the ultimate configuration if sufficient funding is available.

Concrete Funding

- Department believes that the use of concrete funding will be better determined during the design phase but will have an internal meeting to determine final action. Based on an email from the previous PM the deadline for the concrete funding is February. Erik will forward the email to Craig.

Drainage

- RK&K to schedule pre-application meeting with SWFWMD to determine permitting requirements and include PMs and drainage staff.
- Anthony asked if basins were impaired. RK&K to confirm and notify the Department of the status.
- Anthony stated that the department does not prefer the use of pond liners for hydraulic reasons. Liners are allowed if needed to prevent contamination from seeping into wet ponds.
- RK&K will move forward with a design level PSR and confirm process during scoping under Optional Services. Two or three-3 pond sites will be evaluated for each basin.
- FPID 430056-2 to the south was included within a previous SEIR and will not need to be addressed within this project.
- An LHR will be completed after meeting with WMD to confirm if any floodplain mitigation will be required.
- Kirk would prefer to postpone the public hearing until after 60% plans are complete.
- Bill reviewed the handout provided and gave comments on possible site locations:
 - Verizon property cannot be impacted



US 41/SR 45/South 50th Street at CSX Grade Separation Design Change Re-evaluation

From South of Causeway Boulevard to North of Causeway Boulevard

WPI Segment No. 440749-1

Hillsborough County, Florida

- Consider the properties on the east side of US 41 south of Causeway Boulevard and north of CSX. They are currently being purchased by the department.
- Consider the properties along south side of Causeway west of US 41 that require partial takes for the recommended widening. They will be impacted by the improvements.

Action Items:

1. FDOT staff to discuss internally and provide RK&K direction on concrete funding
 - a. Erik to forward Craig email regarding previous coordination.
2. FDOT staff to discuss internally and provide RK&K direction on frontage road configuration
 - a. Erik to provide graphics of concepts for frontage road configurations.
3. RK&K to setup Pre-application Meeting with SWFWMD.
4. RK&K to provide verification of impairment status.

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US 41/SR 45/South 50th Street at CSX Grade Separation Re-evaluation

From South of Causeway Boulevard to North of Causeway Boulevard

Work Program Segment No. 440749-1

Hillsborough County, Florida

PLEASE SIGN-IN

| Drainage Meeting on February 25, 2020 at 8:30 am | | | |
|--|--------------------|----------------------------------|---------|
| Name | Organization | Email | Initial |
| Craig Fox | FDOT D7 | Craig.Fox@dot.state.fl.us | C.F. |
| Amber Russo | FDOT D7/GEC | Amber.Russo@dot.state.fl.us | AR |
| Kirk Bogen | FDOT D7 | Kirk.bogen@dot.state.fl.us | KB |
| Robin Rhinesmith | FDOT D7 | Robin.Rhinesmith@dot.state.fl.us | RR |
| Abdul Waris | FDOT D7 | Abdul.Waris@dot.state.fl.us | AW |
| Anthony Celani | FDOT D7 | Anthony.Celani@dot.state.fl.us | AC |
| Bill McTeer | FDOT D7 | Bill.McTeer@dot.state.fl.us | BM |
| Erik Fleming | RK&K | efleming@rkk.com | EF |
| Liz Lorello | RK&K | llorello@rkk.com | LL |
| Joe Baan | RK&K | jbaan@rkk.com | JB |
| Mike Campo | KCA | Michael.Campo@kisingercampo.com | MC |
| <i>Anthony Celani</i> | <i>FDOT D7/GEC</i> | | |
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From: [Celani, Anthony L.](#)
To: [Joseph Baan](#)
Cc: [Liz Lorello](#)
Subject: RE: 440749-1 // US 41 at CSX // Sea Level Rise
Date: Thursday, February 25, 2021 1:23:39 PM
Attachments: [image008.png](#)
[image012.png](#)

Hey Joe,

We can look at the SLR scenario and document it in the drainage report. Since this is an existing corridor, retrofitting it to meet SLR criteria may not be feasible or practical.

Thanks,

Anthony L. Celani, P.E.
District Seven Drainage Department
11201 N. McKinley Drive MS 7-800
Tampa, FL 33612
(813) 975-6783 Fax 813-975-4206
anthony.celani@dot.state.fl.us



Please note: Florida has a very broad public records law. Most written communications to or from state officials regarding state business are public records available to the public and media upon request. Your e-mail communications may therefore be subject to public disclosure.

From: Joseph Baan <jbaan@rkk.com>
Sent: Thursday, February 25, 2021 12:42 PM
To: Celani, Anthony L. <Anthony.Celani@dot.state.fl.us>
Cc: Liz Lorello <llorello@rkk.com>
Subject: 440749-1 // US 41 at CSX // Sea Level Rise

EXTERNAL SENDER: Use caution with links and attachments.

Anthony,

We are in the early stages of design on US 41 at CSX, which is about 1.5 miles up Delaney Creek from East Bay. Most of our drainage design (ponds, cross drains, FPC) will be done in the Delaney Creek Watershed Model, which ends at East Bay. This project is on the border between coastal and non-coastal. It is outside the VE floodplain but it is still within FEMA coastal transects. I'd like to confirm how sea level rise should be incorporated into the project as it could have significant impacts on our pond sizes and roadway profiles.

Section 3.4.1 of the Drainage Manual (DM) requires coastal projects to "incorporate sea level rise analysis to assess the vulnerability of flooding over the design life of the facility." DM Section 4.5

states that tidally influenced culverts should “adjust the MHW elevation for sea level rise...” Assuming a design service life of 50 years (DM Table 4.1) and the MSL trends in DM Table 3.2, we could experience a rise of approximately 0.454 ft.

Increasing the design stage of East Bay would have a significant impact on the project. It would likely increase pond sizes and require raising the profile of US 41 and even Causeway Boulevard. I don't see SWFWMD requiring an increase in the stage of East Bay for our permitted analysis.

Should we increase the stage of East Bay in the Delaney Creek Watershed Model for our design analysis to represent potential conditions in 50 years or do we just need to include a section in the drainage report summarizing the potential impacts of sea level rise on the proposed conditions?

Thanks,

JOE BAAN, PE, CFM
Project Manager | Transportation



402 S. Kentucky Avenue, Suite 400
Lakeland, FL 33801

863.333.4583 P | 863.670.9361 C
www.rkk.com

Responsive People | Creative Solutions



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RK&K is an equal opportunity employer that values diversity at all levels. RK&K does not discriminate in employment on the basis of race, color, religion, sex (including pregnancy), national origin, political affiliation, sexual orientation, marital status, disability, genetic information, age, parental status, military and veteran status, and any other characteristic protected by applicable law. Consistent with the requirements of Title VI of the Civil Rights Act of 1964, as amended and other nondiscrimination laws and authorities, we also note that RK&K does not discriminate in its selection or retention of subcontractors on the grounds of race, color, or national origin. We also note that RK&K will ensure that Minorities will be afforded full opportunity to submit proposals and not be discriminated against on the grounds of race, color, or national origin in consideration for an award.

THIS FORM IS INTENDED TO FACILITATE AND GUIDE THE DIALOGUE DURING A PRE-APPLICATION MEETING BY PROVIDING A PARTIAL "PROMPT LIST" OF DISCUSSION SUBJECTS. IT IS NOT A LIST OF REQUIREMENTS FOR SUBMITTAL BY THE APPLICANT.



**SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT
RESOURCE REGULATION DIVISION
PRE-APPLICATION MEETING NOTES**

**FILE
NUMBER:**

PA 407537

| | | | |
|----------------------------|---|-------------------------|----------------------|
| Date: | 03/12/2020 | | |
| Time: | 10:00 | | |
| Project Name: | PD&E on US41 | | |
| District Engineer: | Buddy Wood | | |
| District ES: | Al Gagne | | |
| Attendees: | Elizabeth Lorello, Joe Baan (RK&K), Tony Celani, Craig Fox (FDOT) | | |
| County: | Hillsborough | Sec/Twp/Rge: | 27, 28, 33, 34/29/19 |
| Total Land Acreage: | < 40 acres | Project Acreage: | < 40 acres |

Prior On-Site/Off-Site Permit Activity:

- ERP 27063 (Causeway) and ERP 41528 (US 41)

Project Overview:

- Widening and expansion of Causeway Boulevard and US 41 intersection and intersection improvements.

Environmental Discussion: (Wetlands On-Site, Wetlands on Adjacent Properties, Delineation, T&E species, Easements, Drawdown Issues, Setbacks, Justification, Elimination/Reduction, Permanent/Temporary Impacts, Secondary and Cumulative Impacts, Mitigation Options, SHWL, Upland Habitats, Site Visit, etc.)

- Project may impact surface waters and wetlands associated with Delaney Creek to the south and the unnamed creek to the north of the intersection. There may also be impacts associated with roadside ditches.
- Project is located in the Tampa Bay and Coastal Areas ERP Basin. Mitigation banks that serve this area include the Tampa Bay, Mangrove Point and Nature Coast mitigation banks.
- Provide the limits of jurisdictional wetlands and surface waters. Roadside ditches or other water conveyances, including permitted and constructed water conveyance features, can be claimed as surface waters per Chapter 62-340 F.A.C. if they do not meet the definition of a swale as stated under Rule 403.803 (14) F.S
- Provide appropriate mitigation using UMAM for impacts, if applicable.
- If the wetland mitigation is appropriate and the applicant is proposing to utilize mitigation bank credit as wetland mitigation, the following applies: Provide letter or credit availability or, if applicable, a letter of reservation from the wetland mitigation bank. The wetland mitigation bank service area and current ledgers can be found out the following link: <https://www.swfwmd.state.fl.us/business/epermitting/environmental-resource-permit>, Goto "ERP Mitigation Bank Wetland Credit Ledgers"
- Demonstrate elimination and reduction of wetland impacts.
- Maintain minimum 15 foot, average 25 foot wetland conservation area setback or address secondary impacts.
- As of October 1, 2017, the District will no longer send a copy of an application that does not qualify for a State Programmatic General Permit (SPGP) to the U.S. Army Corps of Engineers. If a project does not qualify for a SPGP, you will need to apply separately to the Corps using the appropriate federal application form for activities under federal jurisdiction. Please see the Corps' Jacksonville District Regulatory Division Sourcebook for more information about federal permitting. Please call your local Corps office if you have questions about federal permitting. Link: <http://www.saj.usace.army.mil/Missions/Regulatory/Source-Book/>

Site Information Discussion: (SHW Levels, Floodplain, Tailwater Conditions, Adjacent Off-Site Contributing Sources, Receiving Waterbody, etc.)

- Existing roadway/intersections
- Watersheds- Unnamed Ditch (WBID 1615)- does not appear to be impaired for nutrients, Delaney Creek (Tidal) (WBID 1605D)- does not appear to be impaired for nutrients.
- WBIDs need to be independently verified by the consultant
- Possibly discharging to impaired waters.
- Document/justify SHWE's at pond locations, wetlands, and OSWs.
- Determine normal pool elevations of wetlands.

- Determine 'pop-off' locations and elevations of wetlands.
- Provide documentation to support tailwater conditions for quality and quantity design
- Minimum flows and levels of receiving waters shall not be disrupted.
- Contamination issues need to be resolved with the FDEP. Check FDEP MapDirect layer for possible contamination points within/adjacent to the project area. [FDEP MapDirect Link](#)
 - FDEP Site ID Nos. **XXXXXX and XXXXXX** located within or adjacent to site. Please verify with FDEP if any have current contamination issues. FDEP MapDirect appears to indicate **XXXXXX** has contamination issues.

For known contamination within the site or within 500' beyond the proposed stormwater management system:

- after the application is submitted, please contact FDEP staff listed below and provide them with the ERP Application ID # along with a mounding analysis (groundwater elevation versus distance) of the proposed stormwater management system that shows the proposed groundwater mound will not adversely impact the contaminated area. FDEP will review the plans submitted to the District and mounding analysis to determine any adverse impacts. Provide documentation from FDEP that the proposed construction will not result in adverse impacts. This is required prior to the ERP Application being deemed complete.
- If a SWMS is to be constructed within a contamination zone area, a groundwater sample collected from the first aquifer water bearing zone (i.e. zone of saturation or first zone that the water table is encountered) will most likely be required.

For known offsite contamination between 500' and 1500' beyond the site:

- FDEP may also require a mounding analysis (groundwater elevation versus distance) for the proposed stormwater systems. SWFWMD will issue the permit when contamination sites are located outside the 500 ft radius prior to concurrence from DEP, however, it is the Permittee's responsibility to resolve contaminated site assessment concerns with the FDEP prior to beginning any construction activities. A permit condition will be used to reiterate this. You are advised to contact DEP as soon as possible, preferably during permit application period.

FDEP Contacts:

- For projects located within Citrus, Hernando, Pasco, Hillsborough, Pinellas, Manatee, Polk and Hardee Counties: Yanisa Angulo yanisa.angulo@floridadep.gov
- Stormwater retention and detention systems are classified as moderate sanitary hazards with respect to public and private drinking water wells. Stormwater treatment facilities shall not be constructed within 100 feet of an existing public water supply well and shall not be constructed within 75 feet of an existing private drinking water well. Subsection 4.2, A.H.V.II.
- District GIS identifies existing Well Construction Permits (WCP) near the project.
- Any wells on site should be identified and their future use/abandonment must be designated.

Water Quantity Discussions: (Basin Description, Storm Event, Pre/Post Volume, Pre/Post Discharge, etc.)

- Demonstrate that post development peak discharges from proposed project area will not cause an adverse impact for a 25-year, 24-hour storm event. Would not be required if it can be demonstrated that the discharge is to a tidally-controlled waterbody with no restrictions and no adverse impacts to adjacent properties.
- Demonstrate that site will not impede the conveyance of contributing off-site flows.
- Demonstrate that the project will not increase flood stages up- or down-stream of the project area(s).
- Provide equivalent compensating storage for all 100-year, 24-hour riverine floodplain impacts if applicable. Providing cup-for-cup storage in dedicated areas of excavation is the preferred method of compensation; if no impacts to flood conveyance are proposed and storage impacts and compensation occur within the same basin. In this case, tabulations should be provided at 0.5-foot increments to demonstrate encroachment and compensation occur at the same levels. Otherwise, storage modeling will be required to demonstrate no increase in flood stages will occur on off-site properties, using the mean annual, 10-year, 25-year, and 100-year storm events for the pre- and post-development conditions.

Water Quality Discussions: (Type of Treatment, Technical Characteristics, Non-presumptive Alternatives, etc.)

- Provide water quality treatment for new travel lanes and any existing impervious area that has been previously permitted to be treated.
- Also, replace treatment function of existing ditches to be filled.
- Presumptive Water Quality Treatment for Alterations to Existing Public Roadway Projects:
 -Refer to Section 4.5 A.H.V.II for Alterations to Existing Public Roadway Projects.

- Refer to Sections 4.8, 4.8.1 and 4.8.2 A.H.V.II for Compensating Stormwater Treatment, Overtreatment, and Offsite Compensation.
- All co-mingled existing & new impervious that is proposed to be connected to a treatment pond will require treatment for an area equal to the co-mingled existing & new impervious (times ½” for dry treatment or 1” for wet treatment). This applies whether or not equivalent treatment concepts are used.
- However, if equivalent treatment concepts are used it is possible to strategically locate the pond(s) so that the minimum treatment requirement may be for an area equivalent to the new impervious area only. That is, co-mingled existing & new impervious that is not connected to a treatment pond may bypass treatment (as per Section 4.5(2), A.H.V.II); if the ‘total impervious area’ that is connected to the treatment pond(s) is at least equivalent to the area of new impervious only. The ‘total impervious area’ that is connected to the pond(s) may be composed of co-mingled existing & new impervious.
- Offsite impervious not required to be treated; but may be useful to be treated when using equivalent treatment concepts.
- Existing treatment capacity displaced by any road project will require additional compensating volume. Refer to Subsection 4.5(c), A.H.V.II.
- Will acknowledge compensatory treatment to offset pollutant loads associated with portions of the project area that cannot be physically treated.

Sovereign Lands Discussion: (Determining Location, Correct Form of Authorization, Content of Application, Assessment of Fees, Coordination with FDEP)

- Coordination with the Tampa Port Authority for projects located in Hillsborough County is recommended.

Operation and Maintenance/Legal Information: (Ownership or Perpetual Control, O&M Entity, O&M Instructions, Homeowner Association Documents, Coastal Zone requirements, etc.)

- The permit must be issued to entity that owns or controls the property.
- Provide evidence of ownership or control by deed, easement, contract for purchase, etc. Evidence of ownership or control must include a legal description. A Property Appraiser summary of the legal description is NOT acceptable.

Application Type and Fee Required:

- SWERP new Individual– Sections A, C, and E of the ERP Application.
- < 40 acres of project area and < 3 acre of wetland or surface water impacts - \$2,491.50 Online Submittal
- Consult the [fee schedule](#) for different thresholds.

Other: (Future Pre-Application Meetings, Fast Track, Submittal Date, Construction Start Date, Required District Permits – WUP, WOD, Well Construction, etc.)

- An application for an individual permit to construct or alter a dam, impoundment, reservoir, or appurtenant work, requires that a notice of receipt of the application must be published in a newspaper within the affected area. Provide documentation that such noticing has been accomplished. Note that the published notices of receipt for an ERP can be in accordance with the language provided in Rule 40D-1.603(10), F.A.C.
- The plans and drainage report submitted electronically must include the appropriate information required under Rules 61G15-23.005 and 61G15-23.004 (Digital), F.A.C. The following text is required by the Florida Board of Professional Engineers (FBPE) to meet this requirement when a digitally created seal is not used and must appear where the signature would normally appear:

ELECTRONIC (Manifest): *[NAME] State of Florida, Professional Engineer, License No. [NUMBER] This item has been electronically signed and sealed by [NAME] on the date indicated here using a SHA authentication code. Printed copies of this document are not considered signed and sealed and the SHA authentication code must be verified on any electronic copies*

DIGITAL: *[NAME] State of Florida, Professional Engineer, License No. [NUMBER]; This item has been digitally signed and sealed by [NAME] on the date indicated here; Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.*

- Provide soil erosion and sediment control measures for use during construction. Refer to ERP Applicant’s Handbook Vol. 1 Part IV Erosion and Sediment Control.
- Demonstrate that excavation of any stormwater ponds does not breach an aquitard (see Subsection 2.1.1, A.H.V.II) such that it would allow for lesser quality water to pass, either way, between the two systems. In those geographical areas of the District where there is not an aquitard present, the depth of the pond(s) shall

not be excavated to within two (2) feet of the underlying limestone which is part of a drinking water aquifer.
[Refer to Subsection 5.4.1(b), A.H.V.II]

Disclaimer: The District ERP pre-application meeting process is a service made available to the public to assist interested parties in preparing for submittal of a permit application. Information shared at pre-application meetings is superseded by the actual permit application submittal. District permit decisions are based upon information submitted during the application process and Rules in effect at the time the application is complete.

DRAFT

THIS FORM IS INTENDED TO FACILITATE AND GUIDE THE DIALOGUE DURING A PRE-APPLICATION MEETING BY PROVIDING A PARTIAL "PROMPT LIST" OF DISCUSSION SUBJECTS. IT IS NOT A LIST OF REQUIREMENTS FOR SUBMITTAL BY THE APPLICANT.



**SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT
RESOURCE REGULATION DIVISION
PRE-APPLICATION MEETING NOTES**

**FILE
NUMBER:
PA 408072**

| | | | |
|----------------------------|--|-------------------------|----------------------|
| Date: | 11/19/2020 | | |
| Time: | 11 am | | |
| Project Name: | BAR PA 408072 US 41 and Causeway/CSX | | |
| District Engineer: | Bob Dasta | | |
| District ES: | Chaz LaRiche | | |
| Attendees: | Joseph Baan, RK&K (Drainage), Liz Lorello, RK&K (Drainage), Erik Fleming, RK&K (Roadway), Branan Anderson, KCA (Roadway), Craig Fox, FDOT (Project Manager), Abdul Waris, FDOT (Drainage), Anthony Celani, FDOT (Drainage) | | |
| County: | Hillsborough | Sec/Twp/Rge: | 27,28,29,33,34/29/19 |
| Total Land Acreage: | | Project Acreage: | acres |

Prior On-Site/Off-Site Permit Activity:

- ERP – 27063.000
- ETDM – 14345

Project Overview:

- From US 41 at Trenton Street to US 41 at S. 23rd Ave
- Capacity and operational improvements on US 41/SR45/SR 599 from south of the SR 676/Causeway Boulevard intersection to north of the SR 676/Causeway Boulevard intersection
- ~100 ft span bridge at railroad crossing over Delaney creek. Based on LIDAR, this measured approximately 70 ft from top of bank to top of bank.
- Pre/post modeling shows rises downstream between railroad track along Delaney Creek (0.05 ft). No rises further modeled west of the railroad track. This would be considered an adverse impact since the system is not tidal, especially prior to the span bridge at CSX (and the culvert at the unnamed creek to the north).
- Discussed with staff (Monte Ritter) after the pre-application to determine if tidal.
 - It was determined that the receiving system is not tidally influenced due to the constrictions imposed by the bridge at the railroad crossing at Delaney Creek and then to East Bay and the culvert constriction at the unnamed creek to McKay Bay; the large contributing basin areas to each of these locations, and the narrow channels to each of the bays.
 - Another consideration is the mean high tide levels in the channels. If the mean high tide levels for the bays are above the top of bank of the channels to the bay, this would be an indication that the system is tidal at that point. However, this is only with regards to the channels themselves this does not consider constrictions such as culverts. If the mean high tide levels for the bays are less than the top of bank of the channels to the bay then the channelized flow with head losses is not considered tidal (i.e., riverine).
 - The mean high tide would be the minimum tailwater to model the boundary nodes at each of the bays.
 - East Bay. Site 8726674. Mean high tide appears to be 0.52 ft NAVD88
 - McKay Bay. Site 8726667. Mean high tide appears to be 0.52 ft NAVD88
 - It is possible the some of the project on the west most side (i.e., Causeway Blvd) may drain without constrictions (i.e, culverts, bridge, narrow channels) to each of the bays.
- This area is within a brownfield site with FDEP.
- Consultant discussed that floodplain compensation difficult to provide without additional wetland impacts and FDEP brownfield issues and site will peak far earlier than the channels.
- East Bay is in the Tampa Bay nitrogen consortium, thus, nitrogen impaired.

Environmental Discussion: (Wetlands On-Site, Wetlands on Adjacent Properties, Delineation, T&E species, Easements, Drawdown Issues, Setbacks, Justification, Elimination/Reduction, Permanent/Temporary Impacts, Secondary and Cumulative Impacts, Mitigation Options, SHWL, Upland Habitats, Site Visit, etc.)

- An additional pre-application meeting will be scheduled to discuss the environmental concerns for this FDOT project. Please note there are wetlands associated with the proposed roadway improvements and wetland

impacts may result from the proposed construction, but the final design has not been reached so the total is not clear. This meeting was to discuss the floodplain compensation in the area of Delaney Creek and an Unnamed Creek, both discharging to Tampa Bay.

- Provide the limits of jurisdictional wetlands and surface waters as they relate to the project area. Roadside ditches or other water conveyances, including permitted and constructed water conveyance features, can be claimed as surface waters per Chapter 62-340 F.A.C. if they do not meet the definition of a swale as stated under Rule 403.803 (14) F.S.
- Provide appropriate mitigation using UMAM for impacts, if applicable.
- Maintain minimum 15 foot, average 25 foot wetland conservation area setback or address secondary impacts.
- Determine SHWL's at pond locations, wetlands, and OSWs.
- Determine normal pool elevations of wetlands.
- Determine 'pop-off' locations and elevations of wetlands.
- As of October 1, 2017, the District will no longer send a copy of an application that does not qualify for a State Programmatic General Permit (SPGP) to the U.S. Army Corps of Engineers. If a project does not qualify for a SPGP, you will need to apply separately to the Corps using the appropriate federal application form for activities under federal jurisdiction. Please see the Corps' Jacksonville District Regulatory Division Sourcebook for more information about federal permitting. Please call your local Corps office if you have questions about federal permitting. Link: <http://www.saj.usace.army.mil/Missions/Regulatory/Source-Book/>

Site Information Discussion: (SHW Levels, Floodplain, Tailwater Conditions, Adjacent Off-Site Contributing Sources, Receiving Waterbody, etc.)

- WBIDs need to be independently verified by the consultant - WBIDs 1584C, East Bay, 1584B, McKay Bay, 1625, 1605D and 1637
 - Possibly discharging to impaired waters.
 - Document/justify SHWE's at pond locations, wetlands, and OSWs.
 - Determine normal pool elevations of wetlands.
 - Determine 'pop-off' locations and elevations of wetlands.
 - Provide documentation to support tailwater conditions for quality and quantity design
 - Proposed control structures in wetlands should be consistent with existing 'pop-off' elevations of wetlands; demonstrate no adverse impacts to wetland hydroperiod for up to 2.33yr mean annual storm.
 - Stormwater retention and detention systems are classified as moderate sanitary hazards with respect to public and private drinking water wells. Stormwater treatment facilities shall not be constructed within 100 feet of an existing public water supply well and shall not be constructed within 75 feet of an existing private drinking water well. Subsection 4.2, A.H.V.II.
 - Any wells on site should be identified and their future use/abandonment must be designated.
 - Contamination issues need to be resolved with the FDEP (i.e., brownfield area). Check FDEP MapDirect layer for possible contamination points within/adjacent to the project area. [FDEP MapDirect Link](#)
For known contamination within the site or within 500' beyond the proposed stormwater management system:
 - after the application is submitted, please contact FDEP staff listed below and provide them with the ERP Application ID # along with a mounding analysis (groundwater elevation versus distance) of the proposed stormwater management system that shows the proposed groundwater mound will not adversely impact the contaminated area. FDEP will review the plans submitted to the District and mounding analysis to determine any adverse impacts. Provide documentation from FDEP that the proposed construction will not result in adverse impacts. This is required prior to the ERP Application being deemed complete.
 - If a SWMS is to be constructed within a contamination zone area, a groundwater sample collected from the first aquifer water bearing zone (i.e. zone of saturation or first zone that the water table is encountered) will most likely be required.
 - For known offsite contamination between 500' and 1500' beyond the site:
 - FDEP may also require a mounding analysis (groundwater elevation versus distance) for the proposed stormwater systems. SWFWMD will issue the permit when contamination sites are located outside the 500 ft radius prior to concurrence from DEP, however, it is the Permittee's responsibility to resolve contaminated site assessment concerns with the FDEP prior to beginning any construction activities. A permit condition will be used to reiterate this. You are advised to contact DEP as soon as possible, preferably during permit application period.
- FDEP Contacts:**
- For projects located within Citrus, Hernando, Pasco, Hillsborough, Pinellas, Manatee, Polk and Hardee Counties: Yanisa Angulo yanisa.angulo@floridadep.gov

- For projects located within Sarasota, DeSoto, Highlands and Charlotte Counties: Gary Maier
Gary.Maier@FloridaDEP.gov

- For projects located within Marion, Lake and Sumter Counties: Lu Burson Lu.burson@floridadep.gov

- For projects located within Levy County: Craig Parke Craig.parke@floridadep.gov

Water Quantity Discussions: (Basin Description, Storm Event, Pre/Post Volume, Pre/Post Discharge, etc.)

- Demonstrate that post development peak discharges from proposed project area will not cause an adverse impact for a 25-year, 24-hour storm event.
- For projects or portions of projects that discharge to a closed basin, limit the post-development 100-year discharge volume to the pre-development 100-year, 24-hour volume.
- Demonstrate that site will not impede the conveyance of contributing off-site flows.
- Demonstrate that the project will not increase flood stages up- or down-stream of the project area(s).
- Provide equivalent compensating storage for all 100-year, 24-hour riverine floodplain impacts if applicable. Providing cup-for-cup storage in dedicated areas of excavation is the preferred method of compensation; if no impacts to flood conveyance are proposed and storage impacts and compensation occur within the same basin. In this case, tabulations should be provided at 0.5-foot increments to demonstrate encroachment and compensation occur at the same levels. Otherwise, storage modeling will be required to demonstrate no increase in flood stages will occur on off-site properties, using the mean annual, 10-year, 25-year, and 100-year storm events for the pre- and post-development conditions.
- Please be aware that if there is credible historical evidence of past flooding or the physical capacity of the downstream conveyance or receiving waters indicates that the conditions for issuance will not be met without consideration of storm events of different frequency or duration, applicants shall be required to provide additional analyses using storm events of different duration or frequency than the 25-year 24-hour storm event, or to adjust the volume, rate or timing of discharges. [Section 3.0 Applicant's Handbook Volume II]

Water Quality Discussions: (Type of Treatment, Technical Characteristics, Non-presumptive Alternatives, etc.)

- Provide water quality treatment for entire project area and all contributing off-site flows.
- In addition, if the project discharges to an impaired water body, must provide a net environmental improvement.
- Also, replace treatment function of existing ditches to be filled.
- Presumptive Water Quality Treatment for Alterations to Existing Public Roadway Projects:
 - Refer to Section 4.5 A.H.V.II for Alterations to Existing Public Roadway Projects.
 - Refer to Sections 4.8, 4.8.1 and 4.8.2 A.H.V.II for Compensating Stormwater Treatment, Overtreatment, and Offsite Compensation.
 - All co-mingled existing & new impervious that is proposed to be connected to a treatment pond will require treatment for an area equal to the co-mingled existing & new impervious (times ½" for dry treatment or 1" for wet treatment). This applies whether or not equivalent treatment concepts are used.
 - However, if equivalent treatment concepts are used it is possible to strategically locate the pond(s) so that the minimum treatment requirement may be for an area equivalent to the new impervious area only. That is, co-mingled existing & new impervious that is not connected to a treatment pond may bypass treatment (as per Section 4.5(2), A.H.V.II); if the 'total impervious area' that is connected to the treatment pond(s) is at least equivalent to the area of new impervious only. The 'total impervious area' that is connected to the pond(s) may be composed of co-mingled existing & new impervious.
 - Offsite impervious not required to be treated; but may be useful to be treated when using equivalent treatment concepts.
 - Existing treatment capacity displaced by any road project will require additional compensating volume. Refer to Subsection 4.5(c), A.H.V.II.
- Will acknowledge compensatory treatment to offset pollutant loads associated with portions of the project area that cannot be physically treated.
- Provide additional 50% treatment for any direct discharges to OFW. Refer to ERP Applicant's Handbook Vol. II Subsection 4.1(f).
- Please be advised that although use of isolated wetlands for ERP treatment purposes is permissible as per Section 4.1(a)(3), A.H.V.II, use of isolated wetlands for treatment purposes may not necessarily meet US Army Corps criteria.
- Net improvement
 - Refer to rule 62-330.301(2), F.A.C.

- Provide soil erosion and sediment control measures for use during construction. Refer to ERP Applicant's Handbook Vol. 1 Part IV Erosion and Sediment Control.
- Demonstrate that excavation of any stormwater ponds does not breach an aquitard (see Subsection 2.1.1, A.H.V.II) such that it would allow for lesser quality water to pass, either way, between the two systems. In those geographical areas of the District where there is not an aquitard present, the depth of the pond(s) shall not be excavated to within two (2) feet of the underlying limestone which is part of a drinking water aquifer. [Refer to Subsection 5.4.1(b), A.H.V.II]
- If lowering of SHWE is proposed, then burden is on Applicant to demonstrate no adverse onsite or offsite impacts as per Subsection 3.6, A.H.V.II. Groundwater drawdown 'radius of influence' computations may be required to demonstrate no adverse onsite or offsite impacts. Please note that new roadside swales or deepening of existing roadside swales may result in lowering of SHWE. Proposed ponds with control elevation less than SHWE may result in adverse lowering of onsite or offsite groundwater.

Disclaimer: The District ERP pre-application meeting process is a service made available to the public to assist interested parties in preparing for submittal of a permit application. Information shared at pre-application meetings is superseded by the actual permit application submittal. District permit decisions are based upon information submitted during the application process and Rules in effect at the time the application is complete.



| Waterbody | Node | Description | Corrected Effective | Proposed Roadway | Cross drain |
|---------------|--------|-----------------------------------|---------------------|------------------|--------------|
| | | | 100Y 1D | Improvements | Improvements |
| Delaney Creek | 210030 | Upstream of CSX West bridge | 6.27 | 6.29 | 6.31 |
| | 210040 | Downstream of US 41 bridge | 7.45 | 7.45 | 7.50 |
| | 210050 | Upstream of US 41 bridge | 7.92 | 7.98 | 7.92 |
| Unnamed Creek | 230020 | Downstream of 47th St cross drain | 3.51 | 3.51 | 3.52 |
| | 230030 | Upstream of 47th St cross drain | 4.29 | 4.28 | 4.30 |
| | 230040 | Upstream of US 41 cross drain | 6.09 | 6.14 | 6.03 |
| | 230050 | Further upstream | 9.20 | 9.20 | 9.20 |

-Applicant may demonstrate a net improvement for the parameters of concern by performing a pre/post pollutant loading analysis based on existing land use and the proposed land use. Refer to ERP Applicant's Handbook Vol. II Subsection 4.1(g).

-Effluent filtration is known to be ineffective for treating nutrient related impairments, unless special nutrient adsorption media provided. However, please note special nutrient adsorption media has extremely low conductivity values compared to typical sand type effluent filtration filter media. Note: if treatment volume required for net improvement is less than the treatment volume required for 'presumptive' treatment, then use of effluent filtration is ok.

Sovereign Lands Discussion: (Determining Location, Correct Form of Authorization, Content of Application, Assessment of Fees, Coordination with FDEP)

- The project may be located within state owned sovereign submerged lands (SSSL). Be advised that a title determination will be required from FDEP to verify the presence and/or location of SSSL.
- If use of SSSL is proposed, authorization will be required. Refer to Chapter 18-21, F.A.C. and Chapter 18-20, F.A.C. for guidance on projects that impact SSSL and Aquatic Preserves.
- Coordination with the Tampa Port Authority for projects located in Hillsborough County is recommended.

Operation and Maintenance/Legal Information: (Ownership or Perpetual Control, O&M Entity, O&M Instructions, Homeowner Association Documents, Coastal Zone requirements, etc.)

- The permit must be issued to entity that owns or controls the property.
- Provide evidence of ownership or control by deed, easement, contract for purchase, etc. Evidence of ownership or control must include a legal description. A Property Appraiser summary of the legal description is NOT acceptable.
- Provide Homeowners Association (HOA) or Property Owners Association (POA) documents and affidavit. Refer to ERP Applicant's Handbook Vol. I Subsection 12.3.4 and Section 7 of the References and Design Aids for Vol. I.
- The HOA/POA documents, covenants, and deed restrictions will need to address any docking facility, boat uses, wetland, wetland mitigation, and all other applicable regulatory and proprietary restrictions that are a result of the requested uses.

Application Type and Fee Required:

- SWERP – Sections A, C, and E of the ERP Application.
- Consult the [fee schedule](#) for different thresholds.

Other: (Future Pre-Application Meetings, Fast Track, Submittal Date, Construction Start Date, Required District Permits – WUP, WOD, Well Construction, etc.)

- An application for an individual permit to construct or alter a dam, impoundment, reservoir, or appurtenant work, requires that a notice of receipt of the application must be published in a newspaper within the affected area. Provide documentation that such noticing has been accomplished. Note that the published notices of receipt for an ERP can be in accordance with the language provided in Rule 40D-1.603(10), F.A.C.
- Provide a copy of the legal description (of all applicable parcels within the project area) in one of the following forms:
 - a. Deed with complete Legal Description attachment.
 - b. Plat.
 - c. Boundary survey of the property(ies) with a sketch.
- The plans and drainage report submitted electronically must include the appropriate information required under Rules 61G15-23.005 and 61G15-23.004 (Digital), F.A.C. The following text is required by the Florida Board of Professional Engineers (FBPE) to meet this requirement when a digitally created seal is not used and must appear where the signature would normally appear:

ELECTRONIC (Manifest): *[NAME] State of Florida, Professional Engineer, License No. [NUMBER]
This item has been electronically signed and sealed by [NAME] on the date indicated here using a SHA authentication code. Printed copies of this document are not considered signed and sealed and the SHA authentication code must be verified on any electronic copies*

DIGITAL: *[NAME] State of Florida, Professional Engineer, License No. [NUMBER]; This item has been digitally signed and sealed by [NAME] on the date indicated here; Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.*

From: [Bob Dasta](#)
To: [Joseph Baan](#)
Subject: RE: PA 408072 US 41 and Causeway/CSX
Date: Wednesday, December 2, 2020 12:51:18 PM
Attachments: [image001.png](#)

Hi Joe,

Sorry for the delay in my response. I also hope you and your family had a Happy Thanksgiving.

The District has used the logic of rounding rises that are less than 0.05 feet (i.e., would round to 0.00 feet, for example 0.04 feet) on a case-by-case basis. There are several factors which determine if/when this is applied. Some factors include, but not limited to, whether these sites are where no reported flooding problems or complaints have occurred in the area (if there are reported flooding problems/complaints then there should be no increase at all); the location of the rises (i.e., within the top of bank of existing ditches, etc.); the duration of these rises; and other factors. Based on the location of the rises that we discussed in the pre-application meeting (i.e., within the top of bank of Delaney Creek just prior to the tidal system or within the channels to the tidal system), it is possible that this logic can be applied for this project as it would be expected that these rises (< 0.05 feet) would not result in adverse impacts.

Thanks,

Bob

Bob Dasta, P.E.
Professional Engineer
Environmental Resource Permit Bureau
Regulation Division
Southwest Florida Water Management District
7601 Highway 301 North
Tampa, FL 33637-6759
(800) 836-0797 or (813) 985-7481, extension 6105
Robert.Dasta@swfwmd.state.fl.us



From: Joseph Baan <jbaan@rkk.com>
Sent: Wednesday, December 2, 2020 11:09 AM
To: Bob Dasta <Robert.Dasta@swfwmd.state.fl.us>
Subject: RE: PA 408072 US 41 and Causeway/CSX

[EXTERNAL SENDER] Use caution before opening.

Bob,

I hope you had a good Thanksgiving. I didn't hear back on the email below. Does this sound reasonable?

Thanks,

JOE BAAN, PE, CFM
Project Manager | Transportation
863.333.4583 P | 863.670.9361 C

From: Joseph Baan
Sent: Tuesday, November 24, 2020 9:08 AM
To: 'Bob Dasta' <Robert.Dasta@swfwmd.state.fl.us>
Cc: Monte Ritter <Monte.Ritter@swfwmd.state.fl.us>; Rob McDaniel <Rob.McDaniel@swfwmd.state.fl.us>; Dave Kramer <dave.kramer@swfwmd.state.fl.us>
Subject: RE: PA 408072 US 41 and Causeway/CSX

Bob,

It sounds like we will be required to model our project in the Delaney Creek SWMM Model to ensure no significant stage increases. Based on our pre-app on 3/12/2020, we will need to model the 10YR24HR, 25YR24HR and 100YR24HR storm events. In the past, I understand FDOT D7 has been allowed a modeling peak stage tolerance of 0.05'. Can you confirm this tolerance will also be acceptable for this project?

Thanks,

JOE BAAN, PE, CFM
Project Manager | Transportation
863.333.4583 P | 863.670.9361 C

From: Bob Dasta <Robert.Dasta@swfwmd.state.fl.us>
Sent: Monday, November 23, 2020 8:58 AM
To: Joseph Baan <jbaan@rkk.com>
Cc: Monte Ritter <Monte.Ritter@swfwmd.state.fl.us>; Rob McDaniel <Rob.McDaniel@swfwmd.state.fl.us>; Dave Kramer <dave.kramer@swfwmd.state.fl.us>
Subject: PA 408072 US 41 and Causeway/CSX

Joe,

I discussed with the tidal receiving system and tidal floodplain issues with Monte Ritter, Chief Engineer with the District. Monte conducted the ETDM (US 41 at CSX Grade Separation, ETDM #14345 PA #405960). It was determined that the receiving system is not tidally influenced due to the constrictions imposed by the bridge at the railroad crossing at Delaney Creek and then to East Bay and the culvert constriction at the unnamed creek to McKay Bay; the large contributing basin areas to each of these locations, and the narrow channels conveying the runoff to each of the bays. Another important consideration is the mean high tide levels in the channels. If the mean high tide levels for the bays are above the top of bank of the channels to the bay, this would be an indication that the system is tidal at that point. However, this is only with regards to the channels themselves this does not consider constrictions such as culverts. If the mean high tide levels for the bays are less than the top of bank of the channels to the bay then the channelized flow with head losses is not considered tidal (i.e., riverine). The mean high tide appears to be 0.52 ft NAVD88 for both bays. It is possible the some of the project on the west most side (i.e., Causeway Blvd) may drain without constrictions (i.e., culverts, bridge, narrow channels) to each of the bays.

Thanks,

Bob

Bob Dasta, P.E.
Professional Engineer
Environmental Resource Permit Bureau
Regulation Division
Southwest Florida Water Management District
7601 Highway 301 North
Tampa, FL 33637-6759
(800) 836-0797 or (813) 985-7481, extension 6105
Robert.Dasta@swfwmd.state.fl.us



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From: Dollman, Kyle <DollmanK@hillsboroughcounty.org>
Sent: Monday, March 8, 2021 11:47 AM
To: Joseph Baan
Cc: Erik Fleming; Branan Anderson; Celani, Anthony L.; OBrien, Tim; Liz Lorello
Subject: RE: 440749-1 | US 41 at CSX | Delaney Creek No-Rise Determination

Joe,

You're correct. Per the latest preliminary FIRM and FIS, US41 at Delaney Creek will not be within the regulatory floodway once the preliminary products become effective. The County expects FEMA to issue the Letter of Final Determination (LFD) for these preliminary products on April 7th, 2021. This would mean that the preliminary FIS and FIRMs would become effective on October 7th, 2021.

While there is no reason to believe that the preliminary FIRM and FIS will change here, it could theoretically happen between now and the time the preliminary products become effective. The chances of this, however, are extremely slim.

If you are anticipating permitting and construction activities to occur after October 7th, 2021, I would agree that you would want to use the preliminary FIS and FIRM to evaluate your floodway no-rise requirement. Based on these products as they currently stand, you would not be required to meet the floodway no-rise certification criteria.

However, if you plan to obtain a permit prior to October 7th, 2021 (again, this is an estimate based on when FEMA will issue the LFD), a floodway no-rise analysis and certification would still be required, as the effective maps would show US41 at Delaney Creek within the floodway.

Hope this helps. Please let me know if you have any additional questions.

Thank you

Kyle Dollman, P.E., CFM
Floodplain Administrator
Stormwater Services Section
Technical Services Division
Engineering and Operations Department

P: (813) 599-2509
E: DollmanK@HillsboroughCounty.org
W: HCFLGov.net

From: Joseph Baan <jbaan@rkk.com>
Sent: Monday, March 8, 2021 10:45 AM
To: Dollman, Kyle <DollmanK@hillsboroughcounty.org>
Cc: Erik Fleming <efleming@rkk.com>; Branan Anderson <banderson@kcaeng.com>; Celani, Anthony L. <Anthony.Celani@dot.state.fl.us>; OBrien, Tim <Tim.OBrien@dot.state.fl.us>; Liz Lorello

<llorello@rkk.com>

Subject: 440749-1 | US 41 at CSX | Delaney Creek No-Rise Determination

[External]

Kyle,

RK&K is designing the drainage for improvements to US 41 and Causeway Boulevard, which includes replacement of Bridge 100048 over Delaney Creek. Delaney Creek is a Floodway on effective FEMA FIRM Panel 12057C0367H (see attached FIRMETTE) dated 8/28/2008. As you know, this panel is being revised by a Coastal Flood Risk Map Update. The preliminary FIRM (attached) shows the Delaney Creek floodway ending approximately ½ mile upstream of the US 41 crossing. Therefore, the US 41 crossing should no longer require a no-rise when the preliminary FIRM becomes effective. The analysis for the update is complete and comment period has closed. A Letter of Determination from FEMA is anticipated in Spring of 2021, making the revisions effective in Fall 2021. The Phase II (60%) design of the US 41 project is scheduled to be complete in mid-2022 with construction at least two years after that.

We would like to respectfully request your concurrence that the preliminary FIRM should be used for this project and a no-rise would not be required if construction occurs after the preliminary FIRM becomes effective. The project will still go through the standard environmental permitting process with SWFWMD and other regulatory agencies.

Please let me know if you have any questions.

Thanks,

JOE BAAN, PE, CFM
Project Manager | Transportation



402 S. Kentucky Avenue, Suite 400
Lakeland, FL 33801

863.333.4583 P | 863.670.9361 C
www.rkk.com

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US 41/SR 45/South 50th Street at CSX Grade Separation Design Change Re-evaluation

From South of Causeway Boulevard to North of Causeway Boulevard

WPI Segment No. 440749-1

Hillsborough County, Florida

Meeting Minutes

Date: October 5, 2022
To: Craig Fox
Re: Pond Siting Coordination Meeting

Meeting: Drainage Coordination Meeting
Date: October 4, 2022
Time: 1:30 pm
Location: District 7 Office (11201 N. McKinley Drive, Tampa, FL 33612) and MS Teams
Attendees: FDOT – Kirk Bogen, Craig Fox, Robin Rhinesmith, Bill McTeer, Manny Marsh, Robert Blenton, Allison Conner, Anthony Celani (virtual), Abdul Waris (virtual), Joel Johnson (virtual), Barry Lenz (virtual), Marcel Goss (virtual)
FDOT GEC – Caroline Cation Smith
RK&K – Liz Lorello, Joe Baan (virtual), Vishal Verma, Brett Berube (virtual)
KCA – Branan Anderson

Meeting Notes:

Introduction

- The meeting began with an introduction of the participants.
- Craig introductions; Status update on 15% Line & Grade; concept updates - flyover removal
- Pre-app meeting with SWFWMD; Update Delaney creek model 0.04' rise
 - No FPC; No increase in flood stage
- Design Approach:
 - 3 basins with pond alternatives
 - Basins 1 and 2 draining to Delaney Creek
 - Basin 3 draining north to Unnamed Creek
 - All basins ultimately outfall to McKay Bay
 - Existing southern basin divide located at Hartford
 - Project limits have been extended further south
 - Currently assuming entire project limits draining to Pond 1
 - Project to south is expected to be constructed second

Right of Way Discussion

Basin 1

- Pond 1A site looks feasible due to the property encroachment from the roadway improvements
- Pond 1D - Bill McTeer- partial take with building
 - Bill - Can 1D be adjusted to the east to avoid the building structure and impact the existing parking area, and pipe along property line

- Liz – hydraulically, yes
- Bill - Otherwise you will be purchasing the entire property
 - No access from US 41
 - Joe - Access directly to ramp may not be feasible
 - Review access to the property if reconfigured to the east
- Any possibility for connecting basins 1 & 2?
 - Joe - Crossing creek would be challenging and expensive given elevations, but possible
- Pond 1C - Brett - environmental concerns
 - Marcel Goss - contamination concerns with 1C - suggest dropping this alternative; Location adjacent to brownfield site regulated by FDEP
- Robin Rhinesmith - Does RK&K have someone who runs EST tool?
 - Joe Baan - yes
 - Robin also referred to the AOI tool
 - Brett confirmed that we can access these tools and shared a matrix of the pond sites comparing the cultural and contamination risks during the meeting

Basin 1 Consensus: Remove 1C and proceed with 1A, 1B, & 1D (reconfigured)

Basin 2

- Craig - a lot of movement within the area due to contamination; FDEP looking to make adjustments to areas in order for development
 - Marcel - all ponds in Basin 2 are within brownfield sites; These sites have not been fully evaluated for the level of contamination and will require further investigation
 - Exide battery site; Historically - Ground up batteries spread around site before FDEP regulated
- Pond 2E - Bill - look at 2E; Possibly cleaner from an environmental standpoint
 - Brett - wetlands and other surface waters located within site 2E; Blocked off and under security by FDEP
 - Bill - Move 2E to the paintball property; Can justify the take due to environmental concerns elsewhere
- Pond 2C – Bill - any opportunities for 2C to be full take?
 - Bill - any opportunities for 2C to be full take?
 - Look into reconfiguring pond to maximize pond usage
 - Bill to Craig - Look to see if Exide is willing to sell entire 2C (Early acquisition opportunity)
- Kirk Bogen – only need up to two pond sites to be evaluated; up to three is desirable but not required
 - Can justify environmental concerns in the area for just the two sites

Basin 2 Consensus: Expand 2C & use Paintball site for 2E; Eliminate all other alternatives

Basin 3

- Liz - existing ponds at northeast and northwest corners of Causeway intersection will be impacted by the roadway improvements; These ponds need to be reconfigured to meet the drainage requirements of the existing conditions
 - Looking to combine those ponds to maintain the existing drainage patterns and compensation
 - Additional right of way to the west of the existing pond on the northwest corner will be required to maintain the existing drainage condition. It is shown in yellow on the maps.
 - Bill - This pond needs to be identified as 3A and will be required for all alternatives
- Bill - Anything between El Camino Blanco, Sagasta, and Causeway desirable for full take
- Pond 3A - Bill prefers 3A blue
 - May need to expand 3A adjacent to Sagasta and could possibly eliminate Sagasta connection to Causeway Blvd. since motorists will have opportunity to access Causeway Blvd. directly from the signal at 47th St.
 - Could also consider using the southern portion of County R/W along El Camino Blanco Blvd. to eliminate the need for northern 3A adjacent to 47th St.
- Pond 3B – google street view shows site to be under development
- Pond 3C – showing residential takes
 - Possibly take the commercial piece in 3C to eliminate impacts to residents and combine with one or two of the commercial sites within 3D as an alternative
- Marcel documented pre-existing contamination for petroleum removal from sites adjacent to 47th St.
 - Bill - Mainline improvements already impacting the property so contamination cleanup will likely be required either way

Basin 3 Consensus: Adjust yellow east of Sagasta to include the 2 parcel takes and call that 3A, change 3A blue to 3B and evaluate closing Sagasta connection to expand 3B - check hydraulics, eliminate 3A north, and reconfigure 3C to commercial only. Add what is needed from 3D for 3C hydraulic needs. Eliminate Pond 3B as an alternative.

Action Items:

1. Basin 1: Remove 1C and proceed with 1A, 1B, & 1D (reconfigured - becomes 1C)
2. Basin 2: Evaluate expanding 2C to become 2A (full parcel take); Evaluate paintball property for 2E to be reconfigured for use - becomes 2B
3. Basin 3: Adjust yellow shape east of Sagasta to include the 2 parcel takes and call that 3A, change 3A blue to 3B and evaluate closing Sagasta connection to expand 3B - check hydraulics, eliminate 3A north, and reconfigure 3C to commercial only and add what we need from 3D for 3C hydraulic needs.
4. Updated exhibits to be provided to D7 meeting invites



US 41/SR 45/South 50th Street at CSX Grade Separation Design Change Re-evaluation

From South of Causeway Boulevard to North of Causeway Boulevard

WPI Segment No. 440749-1

Hillsborough County, Florida

Meeting Minutes

Date: January 20, 2023
To: Craig Fox
Re: Bridge Drift Clearance Meeting

Meeting: Bridge Drift Clearance Meeting
Date: January 19, 2023
Time: 3:30 pm
Location: MS Teams
Attendees: FDOT –Craig Fox, Anthony Celani, Abdul Waris
FDOT GEC – Mohit Garg
RK&K – Liz Lorello, Joe Baan, Gordon Mullen
KCA – Branan Anderson, Guillermo Madriz, Carlos Layrisse

Meeting Notes:

Drift Clearance

1. Joe Baan and Branan Anderson summarized the current state of the project design effort. The design team is currently working on Phase II plans. The bridge hydraulic report (BHR) was previously submitted and the bridge development report (BDR) will be submitted within the next week. Joe explained that this meeting was called because a comment was raised about whether or not drift clearance should include predicted sea level rise.
The ERC comment/response is as follows:
Comment: *Does Bridge Alternative provide a 2ft drift clearance including sea level rise of 0.91ft reported in BHR? Does this alternative require a profile adjustment?*
Response: *The mainline bridge is providing well over 2.91 feet. The frontage road and Ramp A bridges are meeting the minimum 2 feet. We would like to set up a meeting to discuss this comment.*
The design team clarified all bridges over Delaney Creek, including the US 41 mainline bridges, are currently established with the low member clearance of 2-feet. The profile update came after the Draft BHR was submitted for review/comment.
2. The proposed crossing of Delaney Creek was discussed. The existing crossing is an aging concrete box culvert. The BDR compares a box culvert and bridge alternatives. Carlos Layrisse explained that replacement with a proposed box culvert would be more challenging because of constructability and MOT issues.
3. The design team explained that the 15% line & grade was prepared assuming a 2.0' drift clearance without including predicted sea level rise per previous discussions and coordination with FDOT.
4. Potential hazards associated with a reduction in drift clearance due to sea level rise were discussed. The channel is not considered navigable so vessel impact is not anticipated. The most



US 41/SR 45/South 50th Street at CSX Grade Separation Design Change Re-evaluation

From South of Causeway Boulevard to North of Causeway Boulevard

WPI Segment No. 440749-1

Hillsborough County, Florida

significant impact risk was determined to be a large tree or other storm debris during an extreme riverine event. The design will also need to account for water pressure against the side of the bridge during a storm surge event, which has much higher stages than a riverine event. It was hypothesized that the water pressure against the bridge in a storm surge condition would far exceed the force of storm debris during a future riverine peak stage condition if sea level rise becomes a reality.

5. Abdul requested that the bridge be designed to accommodate the structural water loading associated with a storm surge event and an analysis be performed to determine the scour associated with a 10% debris blockage during a riverine event.
6. Buoyancy was brought up by Mohit. Joe Baan explained that drift clearance is provided over the riverine peak stage but the storm surge is much higher at approximately 12'. Guillermo stated that a statement would be added to the BDR explaining that buoyancy will be considered if the bridge alternative were selected.

Action Items:

1. RK&K to prepare a riverine storm surge analysis assuming a 10% blockage of the bridge opening.
2. KCA to include language in the BDR stating that the bridge would be designed to mitigate buoyancy and to sustain a storm surge event.

DRAFT

APPENDIX D

Geotechnical Investigation and Soil Analysis

DRAFT

February 18, 2021

Rummel Klepper & Kahl
14055 Riveredge Drive, Suite 301
Tampa, Florida 33637

Attn: Mr. Erik Fleming, P.E.

**RE: Seasonal High Groundwater Table Estimates
US 41/SR 45/SR 599 from South of the SR 676/Causeway Boulevard Intersection to
North of the SR 676/Causeway Boulevard Intersection
Hillsborough County, Florida
FPID Nos.: 440749-1-22-01 and 440749-1-32-01
Tierra Project No.: 6511-18-025**

Mr. Fleming:

Tierra, Inc. has estimated Seasonal High Groundwater Tables (SHGWTs) along the project roadway alignment and preliminary pond alternative sites associated with the above referenced project. The seasonal high groundwater level estimates are presented as an attachment to this letter.

Review of Available Data

As part of our study, Tierra reviewed published soils information obtained from the “Soil Survey of Hillsborough County, Florida” published by the United States Department of Agriculture (USDA) Natural Resources Conservation Service (NRCS) and topographic information obtained from the Tampa, Florida Quadrangle Map published by the United States Geological Survey (USGS).

Seasonal High Groundwater Estimates

SHGWT estimates were completed at select locations along the roadway alignments typically on alternating sides of the existing roadway and at intervals of approximately 200 to 400 feet. SHGWT borings were also completed within the preliminary pond alternatives. The SHGWT estimates were based on soil stratigraphy, measured groundwater levels from the borings as well as the Hillsborough County, Florida USDA Soil Survey information. A **Summary of Seasonal High Groundwater Table Estimates** is presented as an attachment with this letter.

Tierra, Inc. appreciates the opportunity to be of service to Rummel Klepper & Kahl on this project. If you have any questions or comments regarding this information, please contact our office at your earliest convenience.

Sincerely,
TIERRA, INC.



Juan M. Navarrete II, E.I.
Geotechnical Engineer Intern



Joseph R. Antinori, P.E.
Geotechnical Engineer
Florida License No. 73176



Kevin W. Lo, P.E.
Chief Geotechnical Engineer
Florida License No. 56959

Attachments:
Summary of Seasonal High Groundwater Table Estimates

DRAFT

Summary of Seasonal High Groundwater Table Estimates
US 41/SR 45/SR 599 from South of the SR 676/Causeway Boulevard Intersection to
North of the SR 676/Causeway Boulevard Intersection
 Hillsborough County, Florida
FPID Nos.: 440749-1-22-01 and 440749-1-32-01
Tierra Project No. 6511-18-025

| Boring Name | Boring Location ⁽¹⁾ (C/L Const) | | Boring Location ⁽¹⁾ State Plane Coordinates | | Ground Elevation ⁽¹⁾ (ft., NAVD88) | Boring Depth (feet) | Measured Groundwater Table | | | USDA Soil Survey | | | Estimated SHGWT ⁽⁴⁾ | |
|-------------|---|--------|---|---------|--|------------------------|----------------------------|-------------------------------|----------------------------|------------------|-------------------------------------|----------------|--------------------------------|--|
| | Station | Offset | Northing | Easting | | | Date Recorded | Depth ⁽²⁾ (ft.) | Elevation (ft., NAVD88) | Map Symbol | SHGWT Depth ⁽³⁾ (ft.) | Depth (ft.) | Elevation (ft., NAVD88) | |
| | | | | | | | | | | | | | | |
| SH - 59R | 59 + 93 | 102 RT | 1300904 | 526470 | 5.0 | 3.5 | 10/20/20 | 1.5 | 3.5 | 38 | 0.5-1.5 | 0.8 | 4.2 | |
| SH - 60L2 | 59 + 94 | 87 LT | 1300907 | 526280 | 5.8 | 5.0 | 02/02/21 | 2.9 | 2.9 | 38 | 0.5-1.5 | 1.5 | 4.3 | |
| SH - 62R2 | 62 + 11 | 126 RT | 1301122 | 526494 | 6.6 | 5.0 | 02/02/21 | 3.3 | 3.3 | 38 | 0.5-1.5 | 2.0 | 4.6 | |
| SH - 63L | 63 + 34 | 135 LT | 1301246 | 526234 | 5.8 | 5.0 | 10/22/21 | 3.0 | 2.8 | 29 | 0.5-1.5 | 1.5 | 4.3 | |
| SH - 66L2 | 68 + 15 | 68 LT | 1301728 | 526304 | 5.6 | 5.0 | 02/02/21 | 3.6 | 2.0 | 29 | 0.5-1.5 | 1.8 | 3.8 | |
| SH - 68R | 68 + 47 | 68 RT | 1301759 | 526439 | 6.5 | 5.0 | 10/20/20 | 5.0 | 1.5 | 29 | 0.5-1.5 | 2.8 | 3.7 | |
| SH - 70L | 70 + 49 | 83 LT | 1301962 | 526290 | 5.3 | 5.0 | 10/22/20 | GNE | ≤ 0.3 | 30 | 0.0-0.5 | 2.0 | 3.3 | |
| SH - 71R | 71 + 63 | 193 RT | 1302074 | 526567 | 5.4 | 5.0 | 02/02/21 | 3.2 | 2.2 | 30 | 0.0-0.5 | 2.0 | 3.4 | |
| SH - 74R | 74 + 01 | 66 RT | 1302312 | 526441 | 7.6 | 7.0 | 10/21/20 | 6.0 | 1.6 | 30 | 0.0-0.5 | 4.0 | 3.6 | |
| SH - 75L | 74 + 97 | 52 LT | 1302409 | 526323 | 6.4 | 5.0 | 10/22/20 | 4.0 | 2.4 | 30 | 0.0-0.5 | 2.5 | 3.9 | |
| SH - 77L | 77 + 27 | 83 LT | 1302639 | 526294 | 6.3 | 5.0 | 10/22/20 | 4.5 | 1.8 | 29/30 | 0.5-1.5/0.0-0.5 | 2.2 | 4.1 | |
| SH - 77R | 77 + 62 | 75 RT | 1302674 | 526452 | 7.2 | 6.5 | 02/02/21 | 5.4 | 1.8 | 30 | 0.0-0.5 | 3.0 | 4.2 | |
| SH - 79R1 | 78 + 99 | 54 RT | 1302811 | 526432 | 7.1 | 5.0 | 10/21/20 | 3.5 | 3.6 | 29 | 0.5-1.5 | 2.5 | 4.6 | |
| SH - 79R2 | 80 + 08 | 201 RT | 1302919 | 526579 | 6.2 | 5.0 | 10/21/20 | 3.5 | 2.7 | 29 | 0.5-1.5 | 1.5 | 4.7 | |
| SH - 80L | 80 + 48 | 78 LT | 1302961 | 526300 | 6.3 | 5.0 | 10/22/20 | 3.0 | 3.3 | 29 | 0.5-1.5 | 1.8 | 4.5 | |
| SH - 81R | 81 + 18 | 53 RT | 1303030 | 526432 | 6.8 | 5.0 | 10/21/20 | 3.5 | 3.3 | 29 | 0.5-1.5 | 2.0 | 4.8 | |
| SH - 85R1 | 84 + 52 | 59 RT | 1303364 | 526439 | 7.3 | 4.5 | 10/21/20 | 4.0 | 3.3 | 29 | 0.5-1.5 | 2.3 | 5.0 | |
| SH - 85L | 84 + 89 | 63 LT | 1303402 | 526317 | 6.5 | 6.0 | 02/02/21 | 4.9 | 1.6 | 29/38 | 0.5-1.5 | 2.0 | 4.5 | |
| SH - 85R2 | 85 + 13 | 202 RT | 1303424 | 526583 | 5.3 | 3.0 | 10/22/20 | 2.5 | 2.8 | 29 | 0.5-1.5 | 0.5 | 4.8 | |

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⁽²⁾ Depth below existing grades at time of augering.

⁽³⁾ Seasonal high groundwater table depth estimated based on the Hillsborough County, Florida USDA Soil Survey information.

⁽⁴⁾ Seasonal high groundwater table estimated based on historic soil stratigraphy, measured groundwater levels, and USDA Soil Survey.

Summary of Seasonal High Groundwater Table Estimates
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North of the SR 676/Causeway Boulevard Intersection
Hillsborough County, Florida
FPID Nos.: 440749-1-22-01 and 440749-1-32-01
Tierra Project No. 6511-18-025

| Boring Name | Boring Location ⁽¹⁾ (C/L Const) | | Boring Location ⁽¹⁾ State Plane Coordinates | | Ground Elevation ⁽¹⁾ (ft., NAVD88) | Boring Depth (feet) | Measured Groundwater Table | | USDA Soil Survey | | Estimated SHGWT ⁽⁴⁾ | | |
|-------------|---|--------|---|---------|--|------------------------|----------------------------|-------------------------------|----------------------------|------------|-------------------------------------|----------------|----------------------------|
| | Sation | Offset | Northing | Easting | | | Date Recorded | Depth ⁽²⁾ (ft.) | Elevation (ft., NAVD88) | Map Symbol | SHGWT Depth ⁽³⁾ (ft.) | Depth (ft.) | Elevation (ft., NAVD88) |
| SH - 86L | 86 + 16 | 55 LT | 1303529 | 526327 | 6.8 | 5.0 | 10/22/20 | 4.0 | 2.8 | 38 | 0.5-1.5 | 2.0 | 4.8 |
| SH - 86R | 86 + 43 | 227 RT | 1303554 | 526608 | 7.3 | 5.0 | 10/22/20 | 3.5 | 3.8 | 29 | 0.5-1.5 | 2.3 | 5.0 |
| SH - 90R | 90 + 59 | 71 RT | 1303971 | 526455 | 7.2 | 4.0 | 10/22/20 | 3.0 | 4.2 | 38 | 0.5-1.5 | 2.3 | 4.9 |
| SH - 92L | 92 + 47 | 91 LT | 1304160 | 526294 | 7.3 | 4.5 | 10/28/20 | 4.5 | 2.8 | 38 | 0.5-1.5 | 2.5 | 4.8 |
| SH - 92R1 | 92 + 64 | 62 RT | 1304176 | 526447 | 7.2 | 4.5 | 10/22/20 | 3.0 | 4.2 | 38 | 0.5-1.5 | 2.3 | 4.9 |
| SH - 95R | 94 + 96 | 74 RT | 1304408 | 526460 | 7.0 | 4.0 | 10/22/20 | 3.0 | 4.0 | 38 | 0.5-1.5 | 2.0 | 5.0 |
| SH - 96L | 96 + 22 | 58 LT | 1304535 | 526328 | 6.7 | 4.0 | 02/02/21 | 3.3 | 3.4 | 38 | 0.5-1.5 | 1.7 | 5.0 |
| SH - 98R | 99 + 02 | 221 RT | 1304813 | 526609 | 7.6 | 5.0 | 02/02/21 | 4.8 | 2.8 | 38 | 0.5-1.5 | 2.5 | 5.1 |
| SH - 103L | 103 + 65 | 63 LT | 1305179 | 526328 | 5.6 | 5.0 | 11/03/20 | 4.0 | 1.6 | 38 | 0.5-1.5 | 1.3 | 4.3 |
| SH - 104R | 104 + 47 | 61 RT | 1305260 | 526452 | 6.3 | 5.0 | 10/22/20 | 4.0 | 2.3 | 38 | 0.5-1.5 | 2.0 | 4.3 |
| SH - 106L2 | 106 + 19 | 68 LT | 1305433 | 526324 | 6.9 | 5.0 | 02/02/21 | 4.0 | 2.9 | 38 | 0.5-1.5 | 2.5 | 4.4 |
| SH - 107R | 107 + 71 | 45 RT | 1305584 | 526438 | 7.2 | 5.0 | 11/02/20 | 5.0 | 2.2 | 38 | 0.5-1.5 | 2.7 | 4.5 |
| SH - 110R | 110 + 20 | 46 RT | 1305833 | 526440 | 6.5 | 5.0 | 11/02/20 | 4.0 | 2.5 | 38 | 0.5-1.5 | 2.0 | 4.5 |
| SH - 110L | 110 + 35 | 59 LT | 1305849 | 526335 | 6.2 | 3.5 | 11/02/20 | GNE | ≤2.7 | 38 | 0.5-1.5 | 1.8 | 4.4 |
| SH - 114L | 114 + 13 | 44 LT | 1306227 | 526350 | 7.1 | 4.0 | 11/02/20 | GNE | ≤3.1 | 38 | 0.5-1.5 | 2.0 | 5.1 |
| SH - 119L | 118 + 82 | 83 LT | 1306696 | 526311 | 8.8 | 6.5 | 11/02/20 | 6.0 | 2.8 | 38 | 0.5-1.5 | 3.7 | 5.1 |

US 41

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 Hillsborough County, Florida
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Tierra Project No. 6511-18-025

| Boring Name | Boring Location ⁽¹⁾ (C/L Const) | | Boring Location ⁽¹⁾ State Plane Coordinates | | Ground Elevation ⁽¹⁾ (ft., NAVD88) | Boring Depth (feet) | Measured Groundwater Table | | USDA Soil Survey | | Estimated SHGWT ⁽⁴⁾ | | |
|-------------|---|--------|---|---------|--|------------------------|----------------------------|-------------------------------|----------------------------|------------|-------------------------------------|----------------|----------------------------|
| | Sation | Offset | Northing | Easting | | | Date Recorded | Depth ⁽²⁾ (ft.) | Elevation (ft., NAVD88) | Map Symbol | SHGWT Depth ⁽³⁾ (ft.) | Depth (ft.) | Elevation (ft., NAVD88) |
| SH - 258R | 257 + 91 | 30 RT | 1304901 | 522180 | 6.4 | 5.0 | 11/25/20 | 4.5 | 1.9 | 30 | 0.0-0.5 | 2.5 | 3.9 |
| SH - 265L | 266 + 13 | 102 LT | 1305029 | 523002 | 4.5 | 5.0 | 11/25/20 | 2.5 | 2.0 | 30 | 0.0-0.5 | 1.0 | 3.5 |
| SH - 266R | 266 + 65 | 37 RT | 1304890 | 523054 | 3.8 | 5.0 | 11/25/20 | 1.8 | 2.0 | 30 | 0.0-0.5 | 0.3 | 3.5 |
| SH - 270L | 269 + 99 | 102 LT | 1305027 | 523388 | 5.0 | 5.0 | 11/25/20 | 2.0 | 3.0 | 30 | 0.0-0.5 | 1.5 | 3.5 |
| SH - 275L | 275 + 43 | 94 LT | 1305016 | 523933 | 4.8 | 3.5 | 11/25/20 | 2.0 | 2.8 | 38 | 0.5-1.5 | 1.0 | 3.8 |
| SH - 276R | 276 + 42 | 46 RT | 1304876 | 524031 | 4.8 | 4.5 | 12/07/20 | 1.5 | 3.3 | 38 | 0.5-1.5 | 1.0 | 3.8 |
| SH - 282L | 282 + 46 | 95 LT | 1305015 | 524635 | 5.3 | 5.0 | 11/03/20 | 3.5 | 1.8 | 30 | 0.0-0.5 | 1.5 | 3.8 |
| SH - 283R | 283 + 22 | 47 RT | 1304873 | 524711 | 5.2 | 5.0 | 12/07/20 | 2.0 | 3.2 | 38 | 0.5-1.5 | 1.5 | 3.7 |
| SH - 285L | 285 + 33 | 55 LT | 1304974 | 524922 | 5.0 | 4.0 | 11/03/20 | 2.0 | 3.0 | 30 | 0.0-0.5 | 1.2 | 3.8 |
| SH - 287R2 | 287 + 58 | 60 RT | 1304858 | 525146 | 5.0 | 7.5 | 02/02/21 | 2.5 | 2.5 | 30/38 | 0.0-0.5/0.5-1.5 | 1.2 | 3.8 |
| SH - 290L | 290 + 77 | 72 LT | 1304988 | 525466 | 5.3 | 3.5 | 11/03/20 | 3.5 | 1.8 | 38 | 0.5-1.5 | 1.5 | 3.8 |
| SH - 291R | 291 + 34 | 72 RT | 1304844 | 525523 | 5.6 | 5.0 | 02/02/21 | 3.0 | 2.6 | 38 | 0.5-1.5 | 1.5 | 4.1 |
| SH - 295L | 295 + 48 | 77 LT | 1304991 | 525937 | 6.6 | 4.5 | 11/03/20 | 3.5 | 3.1 | 38 | 0.5-1.5 | 2.0 | 4.6 |
| SH - 297R | 295 + 93 | 61 RT | 1304853 | 525982 | 6.4 | 4.0 | 12/07/20 | 3.0 | 3.4 | 38 | 0.5-1.5 | 1.8 | 4.6 |
| SH - 302L | 302 + 58 | 95 LT | 1305006 | 526647 | 7.7 | 5.0 | 11/03/20 | 4.0 | 3.7 | 38 | 0.5-1.5 | 2.5 | 5.2 |
| SH - 303R | 303 + 23 | 31 RT | 1304880 | 526712 | 7.9 | 5.0 | 12/07/20 | 3.0 | 4.9 | 38 | 0.5-1.5 | 2.5 | 5.4 |
| SH - 308R | 307 + 71 | 49 RT | 1304860 | 527160 | 8.5 | 5.0 | 12/07/20 | 3.0 | 5.5 | 38 | 0.5-1.5 | 1.5 | 7.0 |
| SH - 310R | 310 + 55 | 48 RT | 1304859 | 527444 | 9.3 | 5.0 | 12/07/20 | 2.0 | 7.3 | 38 | 0.5-1.5 | 1.5 | 7.8 |

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Tierra Project No. 6511-18-025

| Boring Name | Boring Location ⁽¹⁾ (B/L Survey US 41) | | Boring Location ⁽¹⁾ State Plane Coordinates | | Approximate Ground Elevation ⁽¹⁾ (ft., NAVD88) | Boring Depth ⁽²⁾ (ft.) | Measured Groundwater Table | | | USDA Soil Survey SHGWT ⁽³⁾ | | Estimated SHGWT ⁽⁴⁾ | |
|--|--|--------------|---|---------|--|--------------------------------------|----------------------------|----------------------------|-------------------------|---------------------------------------|------------|--------------------------------|-------------------------------------|
| | Station (ft.) | Offset (ft.) | Northing | Easting | | | Date Recorded | Depth ⁽²⁾ (ft.) | Elevation (ft., NAVD88) | Map Symbol | Depth (ft) | Depth (ft.) | Elevation (ft., NAVD88) |
| SMF 1A | | | | | | | | | | | | | |
| PBA - SMF 1A-1 | 66+03 | 528 RT | 1301512 | 526899 | 6.2 | 4.0 | 02/02/21 | 3.0 | 3.2 | 29 | 0.5-1.5 | 1.5 | 4.7 |
| SMF 1B | | | | | | | | | | | | | |
| PBA - SMF 1B-1 | 68+42 | 166 LT | 1301755 | 526206 | 5.2 | 5.5 | 02/02/21 | 4.5 | 0.7 | 29 | 0.5-1.5 | 1.5 | 3.7 |
| SH - 66L2 | 68+15 | 68 LT | 1301728 | 526304 | 5.6 | 5.0 | 02/02/21 | 3.6 | 2.0 | 29 | 0.5-1.5 | 1.8 | 3.8 |
| SMF 1C | | | | | | | | | | | | | |
| Note: Several attempts to complete hand augers within the footprint of SMF 1C were terminated due to refusal on fill material (rocks, brick, etc.). The depth of the fill material above natural grades was not determined. It is recommended that the SHGWT reported by the USDA be used for preliminary evaluation. | | | | | | | | | | | | | |
| PBA - SMF 1C-1 | --- | --- | --- | --- | --- | --- | --- | --- | --- | 30 | 0.0-0.5 | --- | Not determined due to fill material |
| SMF 2A | | | | | | | | | | | | | |
| SH - 79R2 | 80+08 | 201 RT | 1302919 | 526579 | 6.2 | 5.0 | 10/21/20 | 3.5 | 2.7 | 29 | 0.5-1.5 | 1.5 | 4.7 |
| PBA - SMF 2A-1 | 80+37 | 270 RT | 1302947 | 526649 | 5.8 | 4.5 | 02/02/21 | 2.5 | 3.3 | 29 | 0.5-1.5 | 1.0 | 4.8 |
| SMF 2B | | | | | | | | | | | | | |
| Note: Site was inaccessible due to locked gates and signs stating, "Contaminated Area Avoid Contact with Soil and Water". It is recommended that the SHGWT reported by the USDA and the estimated SHGWT at adjacent pond boring PBASMF 2A-1 be used for preliminary evaluation. | | | | | | | | | | | | | |
| PBA - SMF 2A-1 | 80+37 | 270 RT | 1302947 | 526649 | 5.8 | 4.5 | 02/02/21 | 2.6 | 3.2 | 29 | 0.5-1.5 | 1.0 | 4.8 |
| SMF 2C | | | | | | | | | | | | | |
| Note: Site was inaccessible due to locked gates and signs stating, "Contaminated Area Avoid Contact with Soil and Water". It is recommended that the SHGWT reported by the USDA and the estimated SHGWT at adjacent roadway boring SH-74R be used for preliminary evaluation. | | | | | | | | | | | | | |
| SH - 74R | 74+01 | 66 RT | 1302312 | 526441 | 7.6 | 7.0 | 10/21/20 | 6.0 | 1.6 | 30 | 0.0-0.5 | 4.0 | 3.6 |

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|-----------------------------|---|--------------|---|---------|--|--------------------------------------|----------------------------|----------------------------|-------------------------|---------------------------------------|------------|--------------------------------|-------------|
| | Station (ft.) | Offset (ft.) | Northing | Easting | | | Date Recorded | Depth ⁽²⁾ (ft.) | Elevation (ft., NAVD88) | Map Symbol | Depth (ft) | Depth (ft.) | Depth (ft.) |
| SMF 3A-1 | | | | | | | | | | | | | |
| PBA - SMF 3A1-1 | 295+88 | 224 RT | 1304690 | 525975 | 6.3 | 5.0 | 02/02/21 | 3.4 | 2.9 | 38 | 0.5-1.5 | 1.5 | 4.8 |
| SMF 3A-2 | | | | | | | | | | | | | |
| PBA - SMF 3A2-2 | 291+73 | 205 RT | 1304711 | 525561 | 6.4 | 4.0 | 02/02/21 | 3.5 | 2.9 | 38 | 0.5-1.5 | 2.2 | 4.2 |
| SMF 3A-2 (Alternate) | | | | | | | | | | | | | |
| PBA - SMF 3A2 ALT-1 | 284+67 | 193 RT | 1304726 | 524854 | 6.0 | 4.0 | 02/02/21 | 3.8 | 2.2 | 38 | 0.5-1.5 | 2.0 | 4.0 |
| SMF 3B | | | | | | | | | | | | | |
| PBA - SMF 3B-1 | 290+78 | 455 LT | 1305371 | 525468 | 4.9 | 4.0 | 02/02/21 | 3.0 | 1.9 | 38 | 0.5-1.5 | 1.5 | 3.4 |
| SMF 3C | | | | | | | | | | | | | |
| PBA - SMF 3C-1 | 282+32 | 293 LT | 1305213 | 524622 | 6.1 | 3.5 | 02/02/21 | 3.3 | 2.8 | 30 | 0.0-0.5 | 2.0 | 4.1 |
| SH - 282L | 282+46 | 95 LT | 1305015 | 524635 | 5.3 | 5.0 | 11/03/20 | 1.8 | 3.5 | 30 | 0.0-0.5 | 1.5 | 3.8 |
| SH - 285L | 285+33 | 55 LT | 1304974 | 524922 | 5.0 | 4.0 | 11/03/20 | 2.0 | 3.0 | 30 | 0.0-0.5 | 1.2 | 3.8 |

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United States
Department of
Agriculture

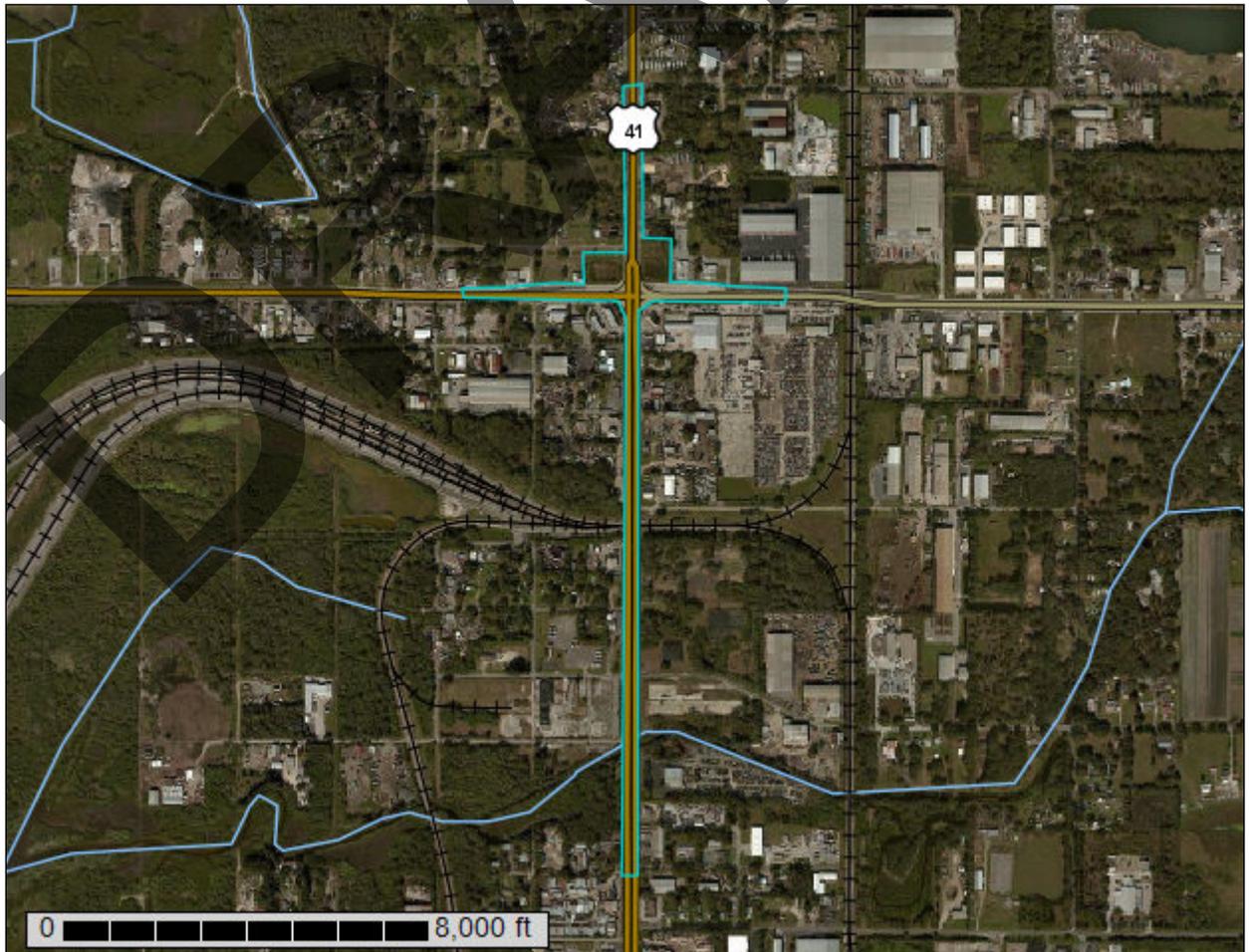
NRCS

Natural
Resources
Conservation
Service

A product of the National
Cooperative Soil Survey,
a joint effort of the United
States Department of
Agriculture and other
Federal agencies, State
agencies including the
Agricultural Experiment
Stations, and local
participants

Custom Soil Resource Report for Hillsborough County, Florida

US 41/SR 45 @ CSX Grade Separation



Preface

Soil surveys contain information that affects land use planning in survey areas. They highlight soil limitations that affect various land uses and provide information about the properties of the soils in the survey areas. Soil surveys are designed for many different users, including farmers, ranchers, foresters, agronomists, urban planners, community officials, engineers, developers, builders, and home buyers. Also, conservationists, teachers, students, and specialists in recreation, waste disposal, and pollution control can use the surveys to help them understand, protect, or enhance the environment.

Various land use regulations of Federal, State, and local governments may impose special restrictions on land use or land treatment. Soil surveys identify soil properties that are used in making various land use or land treatment decisions. The information is intended to help the land users identify and reduce the effects of soil limitations on various land uses. The landowner or user is responsible for identifying and complying with existing laws and regulations.

Although soil survey information can be used for general farm, local, and wider area planning, onsite investigation is needed to supplement this information in some cases. Examples include soil quality assessments (<http://www.nrcs.usda.gov/wps/portal/nrcs/main/soils/health/>) and certain conservation and engineering applications. For more detailed information, contact your local USDA Service Center (<https://offices.sc.egov.usda.gov/locator/app?agency=nrcs>) or your NRCS State Soil Scientist (http://www.nrcs.usda.gov/wps/portal/nrcs/detail/soils/contactus/?cid=nrcs142p2_053951).

Great differences in soil properties can occur within short distances. Some soils are seasonally wet or subject to flooding. Some are too unstable to be used as a foundation for buildings or roads. Clayey or wet soils are poorly suited to use as septic tank absorption fields. A high water table makes a soil poorly suited to basements or underground installations.

The National Cooperative Soil Survey is a joint effort of the United States Department of Agriculture and other Federal agencies, State agencies including the Agricultural Experiment Stations, and local agencies. The Natural Resources Conservation Service (NRCS) has leadership for the Federal part of the National Cooperative Soil Survey.

Information about soils is updated periodically. Updated information is available through the NRCS Web Soil Survey, the site for official soil survey information.

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How Soil Surveys Are Made

Soil surveys are made to provide information about the soils and miscellaneous areas in a specific area. They include a description of the soils and miscellaneous areas and their location on the landscape and tables that show soil properties and limitations affecting various uses. Soil scientists observed the steepness, length, and shape of the slopes; the general pattern of drainage; the kinds of crops and native plants; and the kinds of bedrock. They observed and described many soil profiles. A soil profile is the sequence of natural layers, or horizons, in a soil. The profile extends from the surface down into the unconsolidated material in which the soil formed or from the surface down to bedrock. The unconsolidated material is devoid of roots and other living organisms and has not been changed by other biological activity.

Currently, soils are mapped according to the boundaries of major land resource areas (MLRAs). MLRAs are geographically associated land resource units that share common characteristics related to physiography, geology, climate, water resources, soils, biological resources, and land uses (USDA, 2006). Soil survey areas typically consist of parts of one or more MLRA.

The soils and miscellaneous areas in a survey area occur in an orderly pattern that is related to the geology, landforms, relief, climate, and natural vegetation of the area. Each kind of soil and miscellaneous area is associated with a particular kind of landform or with a segment of the landform. By observing the soils and miscellaneous areas in the survey area and relating their position to specific segments of the landform, a soil scientist develops a concept, or model, of how they were formed. Thus, during mapping, this model enables the soil scientist to predict with a considerable degree of accuracy the kind of soil or miscellaneous area at a specific location on the landscape.

Commonly, individual soils on the landscape merge into one another as their characteristics gradually change. To construct an accurate soil map, however, soil scientists must determine the boundaries between the soils. They can observe only a limited number of soil profiles. Nevertheless, these observations, supplemented by an understanding of the soil-vegetation-landscape relationship, are sufficient to verify predictions of the kinds of soil in an area and to determine the boundaries.

Soil scientists recorded the characteristics of the soil profiles that they studied. They noted soil color, texture, size and shape of soil aggregates, kind and amount of rock fragments, distribution of plant roots, reaction, and other features that enable them to identify soils. After describing the soils in the survey area and determining their properties, the soil scientists assigned the soils to taxonomic classes (units). Taxonomic classes are concepts. Each taxonomic class has a set of soil characteristics with precisely defined limits. The classes are used as a basis for comparison to classify soils systematically. Soil taxonomy, the system of taxonomic classification used in the United States, is based mainly on the kind and character of soil properties and the arrangement of horizons within the profile. After the soil

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scientists classified and named the soils in the survey area, they compared the individual soils with similar soils in the same taxonomic class in other areas so that they could confirm data and assemble additional data based on experience and research.

The objective of soil mapping is not to delineate pure map unit components; the objective is to separate the landscape into landforms or landform segments that have similar use and management requirements. Each map unit is defined by a unique combination of soil components and/or miscellaneous areas in predictable proportions. Some components may be highly contrasting to the other components of the map unit. The presence of minor components in a map unit in no way diminishes the usefulness or accuracy of the data. The delineation of such landforms and landform segments on the map provides sufficient information for the development of resource plans. If intensive use of small areas is planned, onsite investigation is needed to define and locate the soils and miscellaneous areas.

Soil scientists make many field observations in the process of producing a soil map. The frequency of observation is dependent upon several factors, including scale of mapping, intensity of mapping, design of map units, complexity of the landscape, and experience of the soil scientist. Observations are made to test and refine the soil-landscape model and predictions and to verify the classification of the soils at specific locations. Once the soil-landscape model is refined, a significantly smaller number of measurements of individual soil properties are made and recorded. These measurements may include field measurements, such as those for color, depth to bedrock, and texture, and laboratory measurements, such as those for content of sand, silt, clay, salt, and other components. Properties of each soil typically vary from one point to another across the landscape.

Observations for map unit components are aggregated to develop ranges of characteristics for the components. The aggregated values are presented. Direct measurements do not exist for every property presented for every map unit component. Values for some properties are estimated from combinations of other properties.

While a soil survey is in progress, samples of some of the soils in the area generally are collected for laboratory analyses and for engineering tests. Soil scientists interpret the data from these analyses and tests as well as the field-observed characteristics and the soil properties to determine the expected behavior of the soils under different uses. Interpretations for all of the soils are field tested through observation of the soils in different uses and under different levels of management. Some interpretations are modified to fit local conditions, and some new interpretations are developed to meet local needs. Data are assembled from other sources, such as research information, production records, and field experience of specialists. For example, data on crop yields under defined levels of management are assembled from farm records and from field or plot experiments on the same kinds of soil.

Predictions about soil behavior are based not only on soil properties but also on such variables as climate and biological activity. Soil conditions are predictable over long periods of time, but they are not predictable from year to year. For example, soil scientists can predict with a fairly high degree of accuracy that a given soil will have a high water table within certain depths in most years, but they cannot predict that a high water table will always be at a specific level in the soil on a specific date.

After soil scientists located and identified the significant natural bodies of soil in the survey area, they drew the boundaries of these bodies on aerial photographs and

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identified each as a specific map unit. Aerial photographs show trees, buildings, fields, roads, and rivers, all of which help in locating boundaries accurately.

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Soil Map

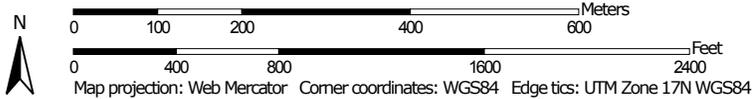
The soil map section includes the soil map for the defined area of interest, a list of soil map units on the map and extent of each map unit, and cartographic symbols displayed on the map. Also presented are various metadata about data used to produce the map, and a description of each soil map unit.

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Custom Soil Resource Report Soil Map



Map Scale: 1:8,930 if printed on A portrait (8.5" x 11") sheet.



MAP LEGEND

- Area of Interest (AOI)**
 - Area of Interest (AOI)
- Soils**
 - Soil Map Unit Polygons
 - Soil Map Unit Lines
 - Soil Map Unit Points
- Special Point Features**
 - Blowout
 - Borrow Pit
 - Clay Spot
 - Closed Depression
 - Gravel Pit
 - Gravelly Spot
 - Landfill
 - Lava Flow
 - Marsh or swamp
 - Mine or Quarry
 - Miscellaneous Water
 - Perennial Water
 - Rock Outcrop
 - Saline Spot
 - Sandy Spot
 - Severely Eroded Spot
 - Sinkhole
 - Slide or Slip
 - Sodic Spot
- Water Features**
 - Streams and Canals
- Transportation**
 - Rails
 - Interstate Highways
 - US Routes
 - Major Roads
 - Local Roads
- Background**
 - Aerial Photography
- Other**
 - Spoil Area
 - Stony Spot
 - Very Stony Spot
 - Wet Spot
 - Other
 - Special Line Features

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:20,000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service
 Web Soil Survey URL:
 Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Hillsborough County, Florida
 Survey Area Data: Version 16, Oct 4, 2017

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Dec 29, 2010—Jan 17, 2014

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Map Unit Legend

| Map Unit Symbol | Map Unit Name | Acres in AOI | Percent of AOI |
|------------------------------------|---|--------------|----------------|
| 29 | Myakka fine sand, 0 to 2 percent slopes | 3.0 | 16.7% |
| 30 | Myakka fine sand, frequently flooded | 1.8 | 10.3% |
| 38 | Pinellas fine sand | 13.1 | 73.1% |
| Totals for Area of Interest | | 17.9 | 100.0% |

Map Unit Descriptions

The map units delineated on the detailed soil maps in a soil survey represent the soils or miscellaneous areas in the survey area. The map unit descriptions, along with the maps, can be used to determine the composition and properties of a unit.

A map unit delineation on a soil map represents an area dominated by one or more major kinds of soil or miscellaneous areas. A map unit is identified and named according to the taxonomic classification of the dominant soils. Within a taxonomic class there are precisely defined limits for the properties of the soils. On the landscape, however, the soils are natural phenomena, and they have the characteristic variability of all natural phenomena. Thus, the range of some observed properties may extend beyond the limits defined for a taxonomic class. Areas of soils of a single taxonomic class rarely, if ever, can be mapped without including areas of other taxonomic classes. Consequently, every map unit is made up of the soils or miscellaneous areas for which it is named and some minor components that belong to taxonomic classes other than those of the major soils.

Most minor soils have properties similar to those of the dominant soil or soils in the map unit, and thus they do not affect use and management. These are called noncontrasting, or similar, components. They may or may not be mentioned in a particular map unit description. Other minor components, however, have properties and behavioral characteristics divergent enough to affect use or to require different management. These are called contrasting, or dissimilar, components. They generally are in small areas and could not be mapped separately because of the scale used. Some small areas of strongly contrasting soils or miscellaneous areas are identified by a special symbol on the maps. If included in the database for a given area, the contrasting minor components are identified in the map unit descriptions along with some characteristics of each. A few areas of minor components may not have been observed, and consequently they are not mentioned in the descriptions, especially where the pattern was so complex that it was impractical to make enough observations to identify all the soils and miscellaneous areas on the landscape.

The presence of minor components in a map unit in no way diminishes the usefulness or accuracy of the data. The objective of mapping is not to delineate pure taxonomic classes but rather to separate the landscape into landforms or landform segments that have similar use and management requirements. The

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delineation of such segments on the map provides sufficient information for the development of resource plans. If intensive use of small areas is planned, however, onsite investigation is needed to define and locate the soils and miscellaneous areas.

An identifying symbol precedes the map unit name in the map unit descriptions. Each description includes general facts about the unit and gives important soil properties and qualities.

Soils that have profiles that are almost alike make up a *soil series*. Except for differences in texture of the surface layer, all the soils of a series have major horizons that are similar in composition, thickness, and arrangement.

Soils of one series can differ in texture of the surface layer, slope, stoniness, salinity, degree of erosion, and other characteristics that affect their use. On the basis of such differences, a soil series is divided into *soil phases*. Most of the areas shown on the detailed soil maps are phases of soil series. The name of a soil phase commonly indicates a feature that affects use or management. For example, Alpha silt loam, 0 to 2 percent slopes, is a phase of the Alpha series.

Some map units are made up of two or more major soils or miscellaneous areas. These map units are complexes, associations, or undifferentiated groups.

A *complex* consists of two or more soils or miscellaneous areas in such an intricate pattern or in such small areas that they cannot be shown separately on the maps. The pattern and proportion of the soils or miscellaneous areas are somewhat similar in all areas. Alpha-Beta complex, 0 to 6 percent slopes, is an example.

An *association* is made up of two or more geographically associated soils or miscellaneous areas that are shown as one unit on the maps. Because of present or anticipated uses of the map units in the survey area, it was not considered practical or necessary to map the soils or miscellaneous areas separately. The pattern and relative proportion of the soils or miscellaneous areas are somewhat similar. Alpha-Beta association, 0 to 2 percent slopes, is an example.

An *undifferentiated group* is made up of two or more soils or miscellaneous areas that could be mapped individually but are mapped as one unit because similar interpretations can be made for use and management. The pattern and proportion of the soils or miscellaneous areas in a mapped area are not uniform. An area can be made up of only one of the major soils or miscellaneous areas, or it can be made up of all of them. Alpha and Beta soils, 0 to 2 percent slopes, is an example.

Some surveys include *miscellaneous areas*. Such areas have little or no soil material and support little or no vegetation. Rock outcrop is an example.

Hillsborough County, Florida

29—Myakka fine sand, 0 to 2 percent slopes

Map Unit Setting

National map unit symbol: 2s3lg
Elevation: 0 to 130 feet
Mean annual precipitation: 42 to 56 inches
Mean annual air temperature: 68 to 77 degrees F
Frost-free period: 350 to 365 days
Farmland classification: Farmland of unique importance

Map Unit Composition

Myakka and similar soils: 85 percent
Minor components: 15 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Myakka

Setting

Landform: Drainageways on flatwoods on marine terraces
Landform position (three-dimensional): Tread, dip, talf
Down-slope shape: Linear
Across-slope shape: Linear, concave
Parent material: Sandy marine deposits

Typical profile

A - 0 to 6 inches: fine sand
E - 6 to 20 inches: fine sand
Bh - 20 to 36 inches: fine sand
C - 36 to 80 inches: fine sand

Properties and qualities

Slope: 0 to 2 percent
Depth to restrictive feature: More than 80 inches
Natural drainage class: Poorly drained
Runoff class: High
Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high (0.57 to 5.95 in/hr)
Depth to water table: About 6 to 18 inches
Frequency of flooding: None
Frequency of ponding: None
Salinity, maximum in profile: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)
Sodium adsorption ratio, maximum in profile: 4.0
Available water storage in profile: Low (about 5.7 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 4w
Hydrologic Soil Group: A/D
Forage suitability group: Sandy soils on flats of mesic or hydric lowlands (G155XB141FL)
Other vegetative classification: South Florida Flatwoods (R155XY003FL)
Hydric soil rating: No

Minor Components

Basinger

Percent of map unit: 5 percent
Landform: Depressions on marine terraces
Landform position (three-dimensional): Tread, dip
Down-slope shape: Concave, linear
Across-slope shape: Concave, linear
Hydric soil rating: Yes

Wabasso

Percent of map unit: 4 percent
Landform: Flatwoods on marine terraces
Landform position (three-dimensional): Tread, talf
Down-slope shape: Linear, convex
Across-slope shape: Linear
Other vegetative classification: South Florida Flatwoods (R155XY003FL)
Hydric soil rating: No

Cassia

Percent of map unit: 3 percent
Landform: Knolls on marine terraces, rises on marine terraces
Landform position (three-dimensional): Tread, talf
Down-slope shape: Convex
Across-slope shape: Linear
Other vegetative classification: Sand Pine Scrub (R155XY001FL)
Hydric soil rating: No

Immokalee

Percent of map unit: 2 percent
Landform: Flatwoods on marine terraces
Landform position (three-dimensional): Riser, talf
Down-slope shape: Linear
Across-slope shape: Linear
Other vegetative classification: South Florida Flatwoods (R155XY003FL)
Hydric soil rating: No

Satellite

Percent of map unit: 1 percent
Landform: Rises on marine terraces, flatwoods on marine terraces
Landform position (three-dimensional): Tread, rise, talf
Down-slope shape: Linear, convex
Across-slope shape: Linear
Other vegetative classification: Sand Pine Scrub (R155XY001FL)
Hydric soil rating: No

30—Myakka fine sand, frequently flooded

Map Unit Setting

National map unit symbol: 1j72h

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Mean annual precipitation: 48 to 56 inches
Mean annual air temperature: 70 to 77 degrees F
Frost-free period: 324 to 354 days
Farmland classification: Not prime farmland

Map Unit Composition

Myakka, frequently flooded, and similar soils: 90 percent
Minor components: 10 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Myakka, Frequently Flooded

Setting

Landform: Tidal marshes on marine terraces
Landform position (three-dimensional): Talf
Down-slope shape: Linear
Across-slope shape: Linear
Parent material: Sandy marine deposits

Typical profile

A - 0 to 5 inches: fine sand
E - 5 to 22 inches: fine sand
Bh - 22 to 40 inches: fine sand
C - 40 to 80 inches: fine sand

Properties and qualities

Slope: 0 to 1 percent
Depth to restrictive feature: More than 80 inches
Natural drainage class: Very poorly drained
Runoff class: High
Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high (0.57 to 5.95 in/hr)
Depth to water table: About 0 to 6 inches
Frequency of flooding: Frequent
Frequency of ponding: None
Salinity, maximum in profile: Strongly saline (16.0 to 32.0 mmhos/cm)
Sodium adsorption ratio, maximum in profile: 4.0
Available water storage in profile: Low (about 5.7 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 8
Hydrologic Soil Group: A/D
Forage suitability group: Sandy soils on stream terraces, flood plains, or in depressions (G155XB145FL)
Other vegetative classification: Salt Marsh (R155XY009FL)
Hydric soil rating: Yes

Minor Components

Samsula

Percent of map unit: 10 percent
Landform: Depressions on marine terraces
Landform position (three-dimensional): Dip
Down-slope shape: Concave
Across-slope shape: Concave
Other vegetative classification: Freshwater Marshes and Ponds (R155XY010FL)

Hydric soil rating: Yes

38—Pinellas fine sand

Map Unit Setting

National map unit symbol: 1j72q
Elevation: 20 to 100 feet
Mean annual precipitation: 48 to 56 inches
Mean annual air temperature: 70 to 77 degrees F
Frost-free period: 324 to 354 days
Farmland classification: Not prime farmland

Map Unit Composition

Pinellas and similar soils: 91 percent
Minor components: 9 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Pinellas

Setting

Landform: Plains on marine terraces
Landform position (three-dimensional): Talf
Down-slope shape: Convex
Across-slope shape: Linear
Parent material: Sandy and loamy marine deposits

Typical profile

A - 0 to 4 inches: fine sand
E - 4 to 11 inches: fine sand
Bk - 11 to 22 inches: fine sand
Btg - 22 to 27 inches: sandy clay loam
Cg - 27 to 80 inches: loamy sand

Properties and qualities

Slope: 0 to 2 percent
Depth to restrictive feature: More than 80 inches
Natural drainage class: Poorly drained
Runoff class: Very high
Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high (0.57 to 1.98 in/hr)
Depth to water table: About 6 to 18 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum in profile: 20 percent
Salinity, maximum in profile: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)
Sodium adsorption ratio, maximum in profile: 4.0
Available water storage in profile: Low (about 3.8 inches)

Interpretive groups

Land capability classification (irrigated): None specified

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Land capability classification (nonirrigated): 3w

Hydrologic Soil Group: B/D

Forage suitability group: Sandy over loamy soils on flats of hydric or mesic lowlands (G155XB241FL)

Other vegetative classification: Cabbage Palm Flatwoods (R155XY005FL)

Hydric soil rating: No

Minor Components

Malabar

Percent of map unit: 5 percent

Landform: Drainageways on marine terraces

Landform position (three-dimensional): Dip

Down-slope shape: Linear

Across-slope shape: Concave

Other vegetative classification: Slough (R155XY011FL)

Hydric soil rating: Yes

Wabasso

Percent of map unit: 4 percent

Landform: Flatwoods on marine terraces

Landform position (three-dimensional): Talf

Down-slope shape: Convex

Across-slope shape: Linear

Other vegetative classification: South Florida Flatwoods (R155XY003FL)

Hydric soil rating: No

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Grain Size Distribution Report
US 41 from South of Causeway Blvd. to North of Causeway Blvd.
Hillsborough County, Florida
FPID Nos.: 440749-1-22-01 and 4407-49-1-32-01
Tierra Project No.: 6511-18-025

| Location | Sample No. | Depth (ft) |
|----------------------------|------------|--------------|
| Delany Creek East of US 41 | SH-71R | Creek Bottom |

Grain Size Distribution Curve



Material Description

Classification

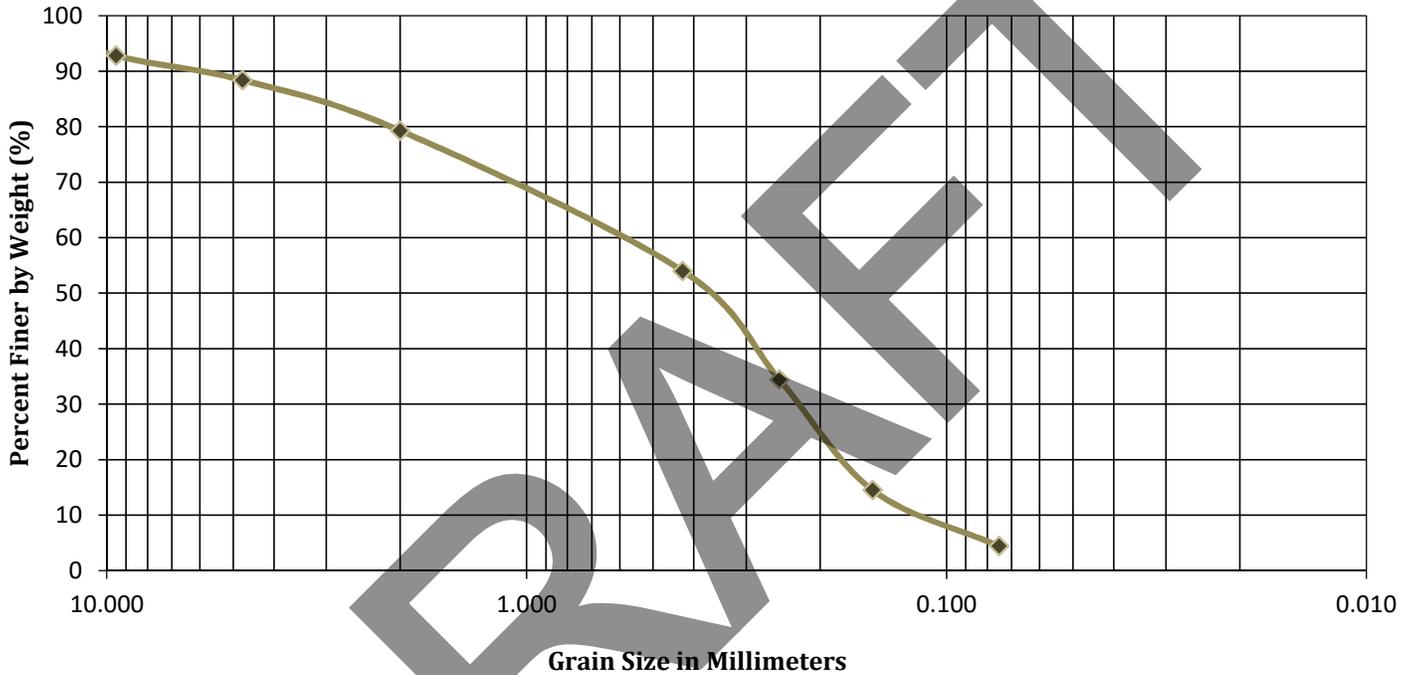
| USCS | AASHTO |
|------|--------|
| SP | A-3 |

| Sieve Number | Diameter (mm) | Percent Finer by Weight (%) | Coefficients | |
|--------------|---------------|-----------------------------|----------------|----------------|
| 3/4" | 19.000 | 98.2 | | |
| 3/8" | 9.500 | 96.6 | D_{10} 0.129 | D_{30} 0.199 |
| 4 | 4.750 | 93.6 | D_{50} 0.270 | D_{60} 0.312 |
| 10 | 2.000 | 90.2 | D_{85} 0.792 | D_{90} 1.930 |
| 40 | 0.425 | 81.5 | D_{95} 6.564 | |
| 60 | 0.250 | 44.6 | | |
| 100 | 0.150 | 12.2 | C_U 2.412 | C_C 0.977 |
| 200 | 0.075 | 1.9 | | |

Grain Size Distribution Report
US 41 from South of Causeway Blvd. to North of Causeway Blvd.
Hillsborough County, Florida
FPID Nos.: 440749-1-22-01 and 4407-49-1-32-01
Tierra Project No.: 6511-18-025

| Location | Sample No. | Depth (ft) |
|----------------------------|------------|--------------|
| Delany Creek West of US 41 | SH-70L | Creek Bottom |

Grain Size Distribution Curve



Material Description

Classification

USCS

AASHTO

SP

A-3

| Sieve Number | Diameter (mm) | Percent Finer by Weight (%) | Coefficients | |
|--------------|---------------|-----------------------------|-----------------|----------------|
| 3/4" | 19.000 | 100 | | |
| 3/8" | 9.500 | 92.8 | D_{10} 0.110 | D_{30} 0.223 |
| 4 | 4.750 | 88.4 | D_{50} 0.381 | D_{60} 0.614 |
| 10 | 2.000 | 79.3 | D_{85} 3.438 | D_{90} 6.112 |
| 40 | 0.425 | 54.0 | D_{95} 11.741 | |
| 60 | 0.250 | 34.4 | | |
| 100 | 0.150 | 14.5 | C_U 5.571 | C_C 0.738 |
| 200 | 0.075 | 4.4 | | |

Grain Size Distribution Report
US 41 from South of Causeway Blvd. to North of Causeway Blvd.
Hillsborough County, Florida
FPID Nos.: 440749-1-22-01 and 4407-49-1-32-01
Tierra Project No.: 6511-18-025

| Location | Sample No. | Depth (ft) |
|----------------------------|----------------|------------|
| SW of US41 and 36th Aveune | 36th Ave No. 1 | 0.0-2.0 |

Grain Size Distribution Curve

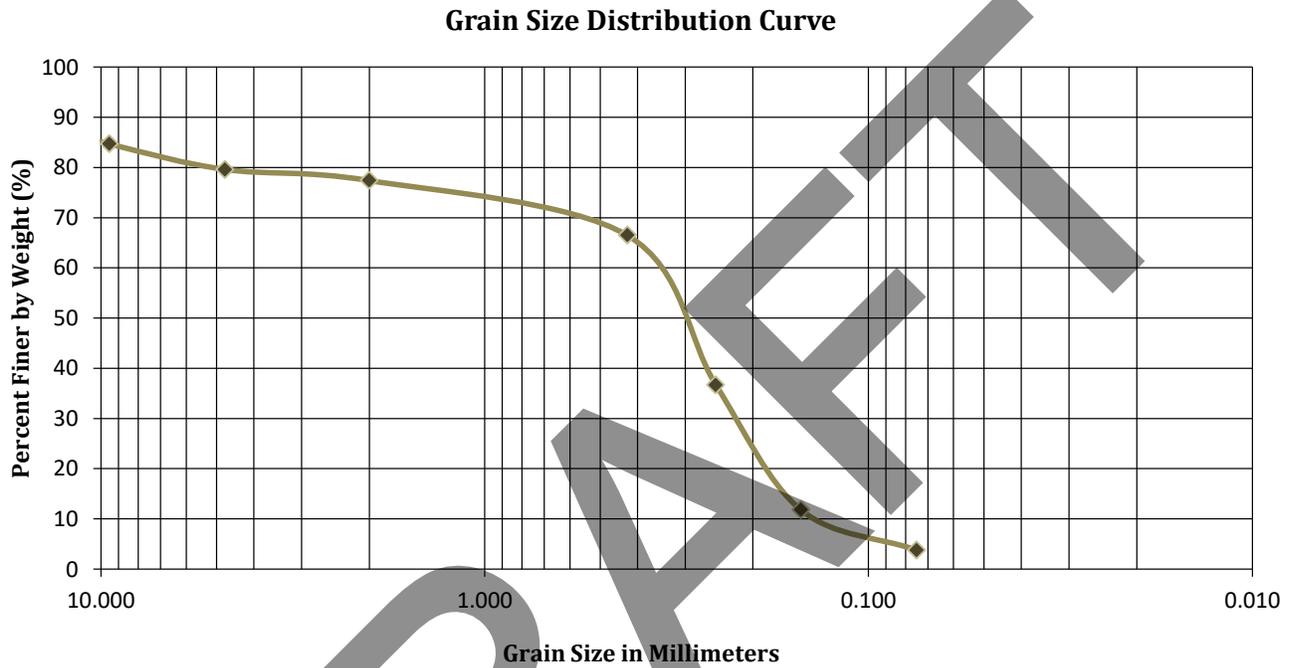


| Material Description | Classification | |
|------------------------|----------------|--------|
| | USCS | AASHTO |
| Sand to Sand With Silt | SP | A-3 |

| Sieve Number | Diameter (mm) | Percent Finer by Weight (%) | Coefficients | |
|--------------|---------------|-----------------------------|-----------------------|----------------|
| 3/4" | 19.000 | 100 | | |
| 3/8" | 9.500 | 95.1 | D_{10} 0.118 | D_{30} 0.199 |
| 4 | 4.750 | 93.8 | D_{50} 0.274 | D_{60} 0.316 |
| 10 | 2.000 | 92.7 | D_{85} 0.758 | D_{90} 1.424 |
| 40 | 0.425 | 80.4 | D_{95} 9.007 | |
| 60 | 0.250 | 43.7 | | |
| 100 | 0.150 | 12.8 | C_U 2.673 | C_C 1.061 |
| 200 | 0.075 | 4.6 | | |

Grain Size Distribution Report
US 41 from South of Causeway Blvd. to North of Causeway Blvd.
Hillsborough County, Florida
FPID Nos.: 440749-1-22-01 and 4407-49-1-32-01
Tierra Project No.: 6511-18-025

| Location | Sample No. | Depth (ft) |
|----------------------------|----------------|------------|
| NE of US41 and 36th Aveune | 36th Ave No. 2 | 0.0-2.0 |



Material Description

Classification

| USCS | AASHTO |
|------|--------|
| SP | A-3 |

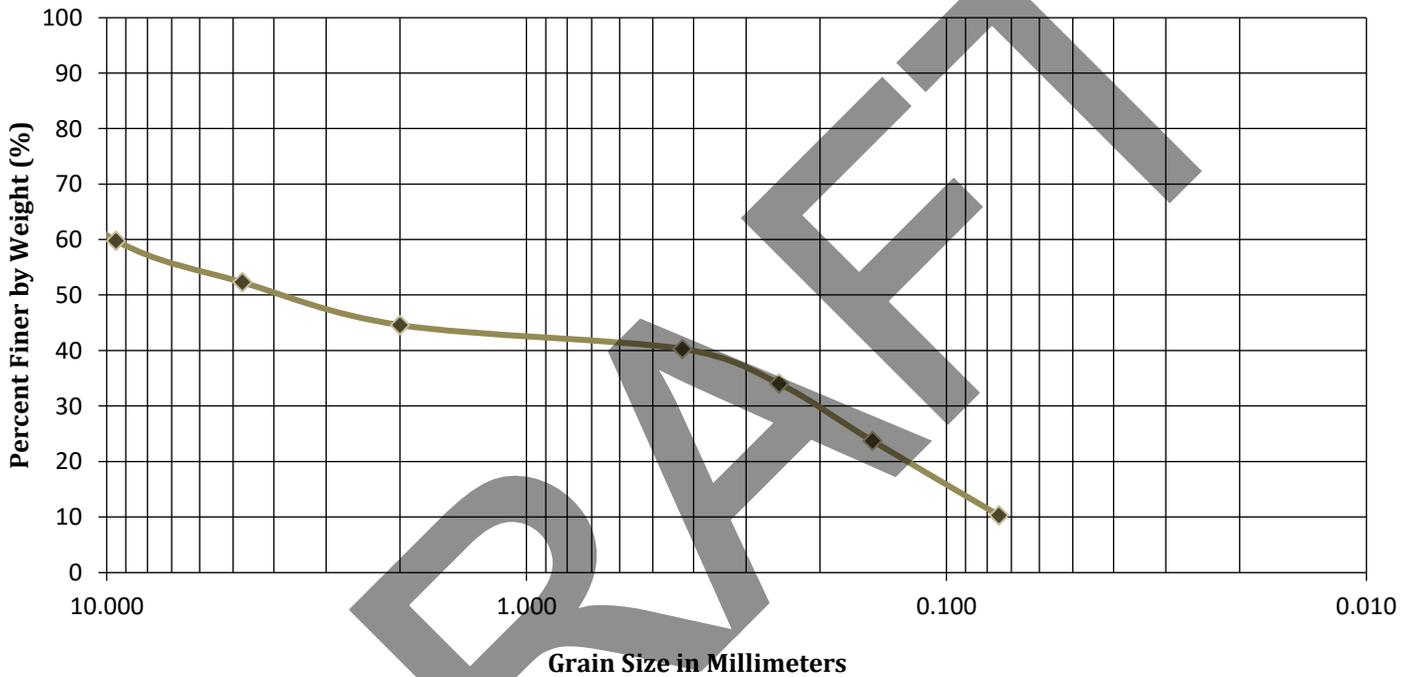
| Sieve Number | Diameter (mm) | Percent Finer by Weight (%) | Coefficients | |
|--------------|---------------|-----------------------------|-----------------------|-----------------|
| 3/4" | 19.000 | 90.9 | | |
| 3/8" | 9.500 | 84.7 | D_{10} 0.128 | D_{30} 0.218 |
| 4 | 4.750 | 79.6 | D_{50} 0.317 | D_{60} 0.379 |
| 10 | 2.000 | 77.4 | D_{85} 9.824 | D_{90} 17.181 |
| 40 | 0.425 | 66.5 | D_{95} --- | |
| 60 | 0.250 | 36.7 | | |
| 100 | 0.150 | 11.8 | C_u 2.950 | C_c 0.977 |
| 200 | 0.075 | 3.8 | | |



Grain Size Distribution Report
US 41 from South of Causeway Blvd. to North of Causeway Blvd.
Hillsborough County, Florida
FPID Nos.: 440749-1-22-01 and 4407-49-1-32-01
Tierra Project No.: 6511-18-025

| Location | Sample No. | Depth (ft) |
|-------------------------------|------------|------------|
| US 41 SW of Railroad Crossing | CSX-1 | 0-1 |

Grain Size Distribution Curve



Material Description

Classification

USCS

AASHTO

Gravel With Sand to Silty Sand

GP

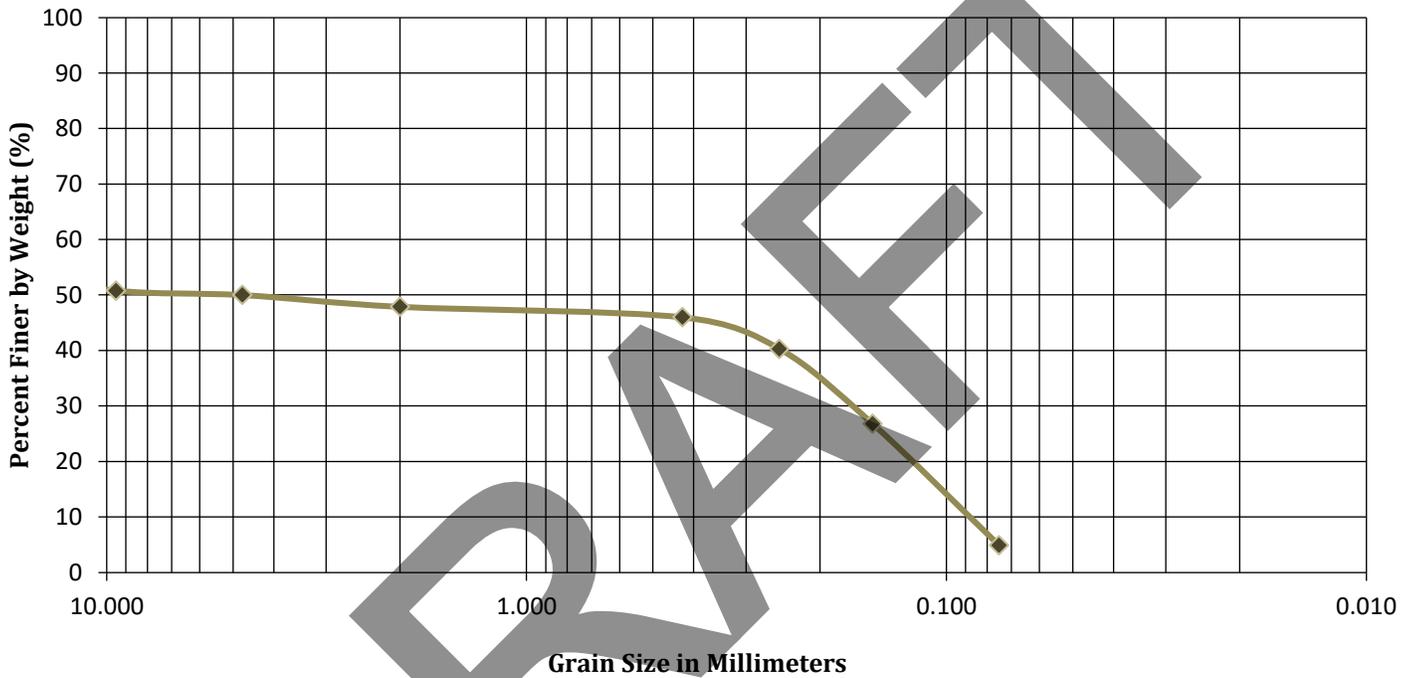
A-1-b

| Sieve Number | Diameter (mm) | Percent Finer by Weight (%) | Coefficients | |
|--------------|---------------|-----------------------------|----------------|----------------|
| 3/4" | 19.000 | 77.1 | | |
| 3/8" | 9.500 | 59.8 | D_{10} --- | D_{30} 0.205 |
| 4 | 4.750 | 52.3 | D_{50} 3.668 | D_{60} 9.576 |
| 10 | 2.000 | 44.6 | D_{85} --- | D_{90} --- |
| 40 | 0.425 | 40.3 | D_{95} --- | |
| 60 | 0.250 | 34.0 | | |
| 100 | 0.150 | 23.7 | C_U --- | C_C --- |
| 200 | 0.075 | 10.3 | | |

Grain Size Distribution Report
US 41 from South of Causeway Blvd. to North of Causeway Blvd.
Hillsborough County, Florida
FPID Nos.: 440749-1-22-01 and 4407-49-1-32-01
Tierra Project No.: 6511-18-025

| Location | Sample No. | Depth (ft) |
|-------------------------------|------------|------------|
| US 41 NW of Railroad Crossing | CSX-2 | 0-1 |

Grain Size Distribution Curve



| Material Description | Classification | |
|--------------------------------|----------------|--------|
| | USCS | AASHTO |
| Gravel With Sand to Silty Sand | GP | A-1-b |

| Sieve Number | Diameter (mm) | Percent Finer by Weight (%) | Coefficients | |
|--------------|---------------|-----------------------------|-----------------------|----------------|
| 3/4" | 19.000 | 54.4 | | |
| 3/8" | 9.500 | 50.8 | D_{10} 0.088 | D_{30} 0.169 |
| 4 | 4.750 | 50.0 | D_{50} 4.750 | D_{60} --- |
| 10 | 2.000 | 47.9 | D_{85} --- | D_{90} --- |
| 40 | 0.425 | 46.0 | D_{95} --- | |
| 60 | 0.250 | 40.3 | | |
| 100 | 0.150 | 26.8 | C_u --- | C_c --- |
| 200 | 0.075 | 4.9 | | |

Grain Size Distribution Report
US 41 from South of Causeway Blvd. to North of Causeway Blvd.
Hillsborough County, Florida
FPID Nos.: 440749-1-22-01 and 4407-49-1-32-01
Tierra Project No.: 6511-18-025

| Location | Sample No. | Depth (ft) |
|-------------------------------|------------|------------|
| US 41 NW of Railroad Crossing | CSX-2 | 1-2 |

Grain Size Distribution Curve



| Material Description | Classification | |
|--------------------------------|----------------|--------|
| | USCS | AASHTO |
| Gravel With Sand to Silty Sand | GP | A-1-b |

| Sieve Number | Diameter (mm) | Percent Finer by Weight (%) | Coefficients | |
|--------------|---------------|-----------------------------|---|--|
| 3/4" | 19.000 | 47.1 | <div style="display: flex; justify-content: space-around;"> <div> <p>D_{10} 0.090</p> <p>D_{50} ---</p> <p>D_{85} ---</p> <p>D_{95} ---</p> <p>C_u ---</p> </div> <div> <p>D_{30} 0.183</p> <p>D_{60} ---</p> <p>D_{90} ---</p> <p>C_c ---</p> </div> </div> | |
| 3/8" | 9.500 | 44.9 | | |
| 4 | 4.750 | 44.0 | | |
| 10 | 2.000 | 42.1 | | |
| 40 | 0.425 | 40.8 | | |
| 60 | 0.250 | 36.6 | | |
| 100 | 0.150 | 25.8 | | |
| 200 | 0.075 | 4.4 | | |

DRAFT

APPENDIX E

Bridge Inspection Report



BRIDGE INSPECTION REPORT

ICA

PREPARED FOR: FLORIDA DEPARTMENT OF TRANSPORTATION
BRIDGE OWNER: FLORIDA DEPARTMENT OF TRANSPORTATION

INSPECTED BY:
VOLKERT

BRIDGE NO. 100048 CONTENTS OF REPORT INSPECTION DATE: 03/19/2019

BrM Report

U/W Inspection Report

CIDR

* Fracture Critical Data

Scour Elevation (Profile)

* Load Rating Analysis Summary

* Addendum (Element Notes & Photos/Sketches)

**This section is not included in this report.*



US-41 OVER DELANEY CREEK

0.5MI SOUTH OF SR-676



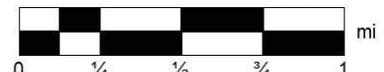
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Data Zoom 13-0

FLORIDA DEPARTMENT OF TRANSPORTATION
BRIDGE MANAGEMENT SYSTEM
Inspection/CIDR/Bridge Profile Report
Inspection

Structure ID: 100048

DISTRICT: D7 - Tampa

INSPECTION DATE: 3/19/2019 HIMB

BY: Volkert
OWNER: 1 State Highway Agency
MAINTAINED BY: 1 State Highway Agency
STRUCTURE TYPE: 1 Reinforced Concrete - 19 Culvert
LOCATION: 0.5MI SOUTH OF SR-676
SERV. TYPE ON: 1 Highway
SERV. TYPE UNDER: 5 Waterway

STRUCTURE NAME: US-41 OVER DELANEY CREEK
YEAR BUILT: 1959
SECTION NO.: 10 060 000
MP: 22.999
ROUTE: 00041
FACILITY CARRIED: US-41 (SR-45)
FEATURE INTERSECTED: DELANEY CREEK

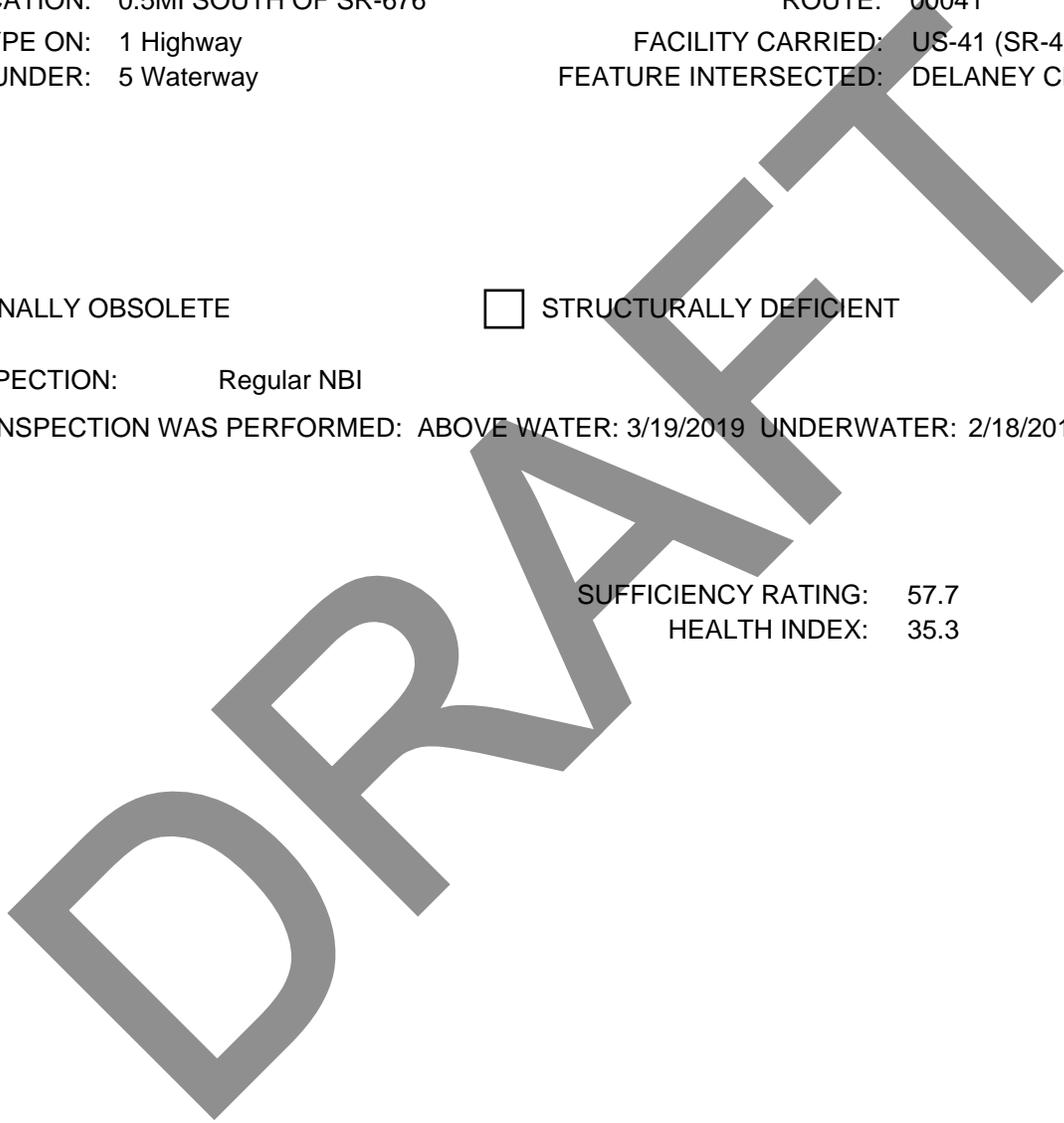
FUNCTIONALLY OBSOLETE

STRUCTURALLY DEFICIENT

TYPE OF INSPECTION: Regular NBI

DATE FIELD INSPECTION WAS PERFORMED: ABOVE WATER: 3/19/2019 UNDERWATER: 2/18/2019

SUFFICIENCY RATING: 57.7
HEALTH INDEX: 35.3



This report contains information relating to the physical security of a structure and depictions of the structure. This information is confidential and exempt from public inspection pursuant to sections 119.071(3)(a) and 119.071(3)(b), Florida Statutes. Only the cover page of this report may be inspected and copied.

FLORIDA DEPARTMENT OF TRANSPORTATION
BRIDGE MANAGEMENT SYSTEM
Inspection/CIDR/Bridge Profile Report
Inspection

Structure ID: 100048

DISTRICT: D7 - Tampa

INSPECTION DATE: 3/19/2019 HIMB

BY: Volkert
OWNER: 1 State Highway Agency
MAINTAINED BY: 1 State Highway Agency
STRUCTURE TYPE: 1 Reinforced Concrete - 19 Culvert
LOCATION: 0.5MI SOUTH OF SR-676
SERV. TYPE ON: 1 Highway
SERV. TYPE UNDER: 5 Waterway

STRUCTURE NAME: US-41 OVER DELANEY CREEK
YEAR BUILT: 1959
SECTION NO.: 10 060 000
MP: 22.999
ROUTE: 00041
FACILITY CARRIED: US-41 (SR-45)
FEATURE INTERSECTED: DELANEY CREEK

- THIS BRIDGE CONTAINS FRACTURE CRITICAL COMPONENTS
- THIS BRIDGE IS SCOUR CRITICAL
- THIS REPORT IDENTIFIES DEFICIENCIES WHICH REQUIRE PROMPT CORRECTIVE ACTION
- FUNCTIONALLY OBSOLETE
- STRUCTURALLY DEFICIENT

TYPE OF INSPECTION: Regular NBI

DATE FIELD INSPECTION WAS PERFORMED: ABOVE WATER: 3/19/2019 UNDERWATER: 2/18/2019

OVERALL NBI RATINGS:

| | |
|-----------------------------|----------------------------|
| DECK: N N/A (NBI) | CHANNEL: 7 Minor Damage |
| SUPERSTRUCTURE: N N/A (NBI) | CULVERT: 5 Moderate Damage |
| SUBSTRUCTURE: N N/A (NBI) | SUFF. RATING: 57.7 |
| PERF. RATING: Fair | HEALTH INDEX: 35.3 |

FIELD PERSONNEL / TITLE / NUMBER:

Coon, Elliott - Bridge Inspector (CBI #00530) (lead)
 Bibelhauser, Anthony - Bridge Inspector (CBI #00359)
 Qualls, Dion - Bridge Inspector (CBI#00470) - Lead Diver
 Payne, Timothy - Diver
 DeReus, Scott - Professional Engineer (#51907) - Tender

INITIALS

ER

REVIEWING BRIDGE INSPECTION SUPERVISOR:

Rucks, Edward - CBI (#00273)

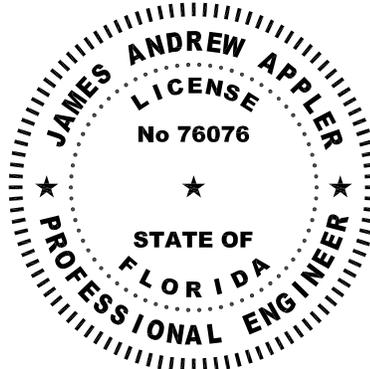
ER

CONFIRMING REGISTERED PROFESSIONAL ENGINEER:

Appler, James - Professional Engineer (PE#76076) Volkert, Inc.
1408 N. Westshore Blvd., Suite 600
CERTIFICATE OF AUTHORIZATION NUMBER 4641
Tampa FL 33607

SIGNATURE:

DATE:



James Appler
 2019.05.07
 12:41:12
 -04'00'

This item has been digitally signed and sealed by James Appler on the date adjacent to the seal.

Printed copies of this document are not considered signed and sealed And the signature must be verified on any electronic copies.

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**FLORIDA DEPARTMENT OF TRANSPORTATION
BRIDGE MANAGEMENT SYSTEM
Inspection/CIDR/Bridge Profile Report
Inspection**

Structure ID: 100048

DISTRICT: D7 - Tampa

INSPECTION DATE: 3/19/2019 HIMB

All Elements

MISCELLANEOUS : Channel

| Str Unit | Elem/Env | Description | Qty1 | %1 | Qty2 | %2 | Qty3 | %3 | Qty4 | %4 | T Qty |
|----------|----------|-------------|------|----|------|-----|------|----|------|----|--------|
| 0 | 8290 / 4 | Channel | 0 | . | 1 | 100 | 0 | . | 0 | . | 1 (EA) |
| 0 | 9130 / 4 | Aggradation | 0 | . | 1 | 100 | 0 | . | 0 | . | 1 (EA) |

Element Inspection Notes:

8290/4 The following was noted by the underwater inspectors:

CS2 9130: The cells have up to 2ft. of sediment throughout - DECREASE. (1EA)

There is debris throughout the channel.

9130/4 Refer to Parent Element

MISCELLANEOUS : Other Elements

| Str Unit | Elem/Env | Description | Qty1 | %1 | Qty2 | %2 | Qty3 | %3 | Qty4 | %4 | T Qty |
|----------|----------|---------------------------------|------|-------|------|-------|------|----|------|----|--------|
| 0 | 8475 / 4 | R/Conc Walls | 128 | 82.05 | 28 | 17.95 | 0 | . | 0 | . | 156 ft |
| 0 | 1080 / 4 | Delamination/Spall/Patched Area | 0 | . | 12 | 100 | 0 | . | 0 | . | 12 ft |
| 0 | 1190 / 4 | Abrasion(PSC/RC) | 0 | . | 16 | 100 | 0 | . | 0 | . | 16 ft |

Element Inspection Notes:

8475/4 CS2 1190: The wingwalls have scale (loss of matrix) up to 3/8in. deep. (16FT)

The northwest, southwest and northeast wingwalls have partially sealed vertical/diagonal cracks up to 4ft. long x 1/32in.

CS2 1080: The west headwall over Barrel 3 has a sound patch 8ft. x 6in. - INCREASE. (8FT)

CS2 1080: The east headwall top edge over Barrel 1 has one spall and the southeast wingwall has two spalls in the top north corner and one spall at the south end wall up to 4in. x 4in. x 1/2in. (4FT)

PREVIOUS WORK ORDER RECOMMENDATION:

Repair lack of cover spall on east headwall over Barrel 3. Repaired.

1080/4 Refer to Parent Element

1190/4 Refer to Parent Element

SUBSTRUCTURE : Culvert

| Str Unit | Elem/Env | Description | Qty1 | %1 | Qty2 | %2 | Qty3 | %3 | Qty4 | %4 | T Qty |
|----------|----------|---------------------------------|------|----|------|----|------|-----|------|----|--------|
| 0 | 241 / 4 | Re Conc Culvert | 0 | . | 0 | . | 361 | 100 | 0 | . | 361 ft |
| 0 | 1080 / 4 | Delamination/Spall/Patched Area | 0 | . | 0 | . | 141 | 100 | 0 | . | 141 ft |
| 0 | 1120 / 4 | Efflorescence/Rust Staining | 0 | . | 0 | . | 1 | 100 | 0 | . | 1 ft |
| 0 | 1190 / 4 | Abrasion(PSC/RC) | 0 | . | 0 | . | 219 | 100 | 0 | . | 219 ft |

Element Inspection Notes:

241/4 CS3 1080: Walls 2 and 3 of all cells have sound patches and delamination up to 10ft. x 2ft. intermittently throughout - INCREASE. Refer to Photo 1.

CS3 1080: Walls 2 and 3 of all cells have delaminated patches up to 12ft. x 3ft.

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**FLORIDA DEPARTMENT OF TRANSPORTATION
BRIDGE MANAGEMENT SYSTEM
Inspection/CIDR/Bridge Profile Report
Inspection**

Structure ID: 100048

DISTRICT: D7 - Tampa

INSPECTION DATE: 3/19/2019 HIMB

intermittently throughout - INCREASE. Refer to Photo 2. (141FT)

CS3 1120: The sidewalls have vertical cracks up to full height x 1/32in., and the ceilings have transverse cracks up to full width x 1/32in. some minor efflorescence and water leakage - INCREASE. Refer to Photo 3.

CS3 1120: Cell 1 Wall 2 at the east end, 18in. below ceiling has a vertical crack 18in. x 1/32in. with minor corrosion bleedout. Refer to Photo 4. P3W0 ALL (1FT)

CS3 1120: Cell 3 Wall 3 28ft. from the east end 3ft. below ceiling has a diagonal crack 54in. x 1/64in. with minor efflorescence.

The following was noted by underwater inspectors:

CS3 1190: The sidewalls have intermittent areas of honeycombing up to 1in. deep throughout and scale (loss of aggregate) up to 3/8in. deep. Refer to Photo 5. P3W0 ALL (219FT)

INCIDENTAL:

The sidewalls have exposed form ties throughout, starting 3ft.-6in. below the ceiling.

CS3 1120: Cell 1 Wall 2 east face 3ft. below ceiling, two vertical cracks with corrosion bleedout up to 12in. x 1/32in. - NEW.

CS3 1080: Cell 3 Wall 4, 12ft. from west end, 4ft. below ceiling adjacent drain inlet has honeycombing up to 2in. diameter x 1in. deep.

CORRECTIVE ACTION TAKEN:

The previously reported horizontal crack and diagonal crack with light efflorescence in the east end of Cell 1 Wall 1 have been repaired.

The previously reported vertical crack with corrosion bleedout 8in. from the west end of Cell 1 Wall 2 has been repaired.

PREVIOUS WORK ORDER RECOMMENDATION:

Repair 10 delaminations listed in Table 1 of the 3-15-17 report addendum. Not repaired. Repeat.

1080/4 Refer to Parent Element

1120/4 Refer to Parent Element

1190/4 Refer to Parent Element

Total Number of Elements*: 3
*excluding defects/protective systems

**FLORIDA DEPARTMENT OF TRANSPORTATION
BRIDGE MANAGEMENT SYSTEM
Inspection/CIDR/Bridge Profile Report
Inspection**

Structure ID: 100048
DISTRICT: D7 - Tampa

INSPECTION DATE: 3/19/2019 HIMB

Inspector Recommendations

UNIT: 0 SUBSTRUCTURE

ELEMENT/ENV: 241 / 4 Re Conc Culvert

ELEM CATEGORY: Culvert

| CONDITION STATE | | PRIORITY |
|--|--|----------|
| 3 | MMS Quantity: 5 mh Element Estimated Quantity: 1 ft | 3 |
| WORK ORDER RECOMMENDATION: Repair all delaminations, delaminated patches, vertical cracks and scale in Walls 2 and 3 throughout. 361FT | | |

Structure Notes

TRAFFIC RESTRICTIONS: Based on the load rating analysis dated 05/20/1992, the structure does not require posting. The structure is not posted.

Bridge No. 100467 is south and Bridge No. 100049 is north of this Bridge No. 100048.

Structure inventoried from south to north.

Fill depth = up to 26in.

INSPECTION NOTES: **HIMB** **3/19/2019**

Sufficiency Rating Calculation Accepted by knvolnh at 3/29/2019 11:30:02 AM

LOAD CAPACITY EVALUATION:

The current load rating dated 05/20/1992 appears complete and applicable to the reported structure conditions. – James Appler, PE, 04/12/2019.

SIA item 62 is rated 5 because of the spalls and delaminations throughout the culvert.

Note: Divers inspected Channel, Walls and a Triple Cell Box Culvert each measuring 11ft. W x 8ft. H x 120ft. 4in. L.

New sidewalk is in place over the culvert along west end.

The asphalt surfacing over the structure in Lanes 2, 4, 5, and 6 has raveling, impending potholes, and potholes up to 10ft. x 3ft. x 2in. - NEW. Refer to Photos 6 and 7. REPAIR

FLORIDA DEPARTMENT OF TRANSPORTATION
BRIDGE MANAGEMENT SYSTEM
Inspection/CIDR/Bridge Profile Report
Inspection

Structure ID: 100048

DISTRICT: D7 - Tampa

INSPECTION DATE: 3/19/2019 HIMB



Photo 1: Element 241 Re Conc Culvert

Cell 2 Wall 2 40ft. from the west end and delamination. Typical.

WORK ORDER RECOMMENDATION:

P3WO: Repair all delaminations, delaminated patches, vertical cracks and scale in Walls 2 and 3 throughout. 361FT

FLORIDA DEPARTMENT OF TRANSPORTATION
BRIDGE MANAGEMENT SYSTEM
Inspection/CIDR/Bridge Profile Report
Inspection

Structure ID: 100048

DISTRICT: D7 - Tampa

INSPECTION DATE: 3/19/2019 HIMB



Photo 2: Element 241 Re Conc Culvert

Cell 2 Wall 2 3ft. from east end end unsounded patch. Typical.

WORK ORDER RECOMMENDATION:
Refer to Photo 1.

FLORIDA DEPARTMENT OF TRANSPORTATION
BRIDGE MANAGEMENT SYSTEM
Inspection/CIDR/Bridge Profile Report
Inspection

Structure ID: 100048

DISTRICT: D7 - Tampa

INSPECTION DATE: 3/19/2019 HIMB



Photo 3: Element 241 Re Conc Culvert

Cell 1 ceiling transverse crack with minor water leakage. Typical.

WORK ORDER RECOMMENDATION:
None.

FLORIDA DEPARTMENT OF TRANSPORTATION
BRIDGE MANAGEMENT SYSTEM
Inspection/CIDR/Bridge Profile Report
Inspection

Structure ID: 100048

DISTRICT: D7 - Tampa

INSPECTION DATE: 3/19/2019 HIMB



Photo 4: Element 241 Re Conc Culvert

Cell 1 Wall 2, east end, vertical crack with corrosion bleedout.

WORK ORDER RECOMMENDATION:
Refer to Photo 1.

FLORIDA DEPARTMENT OF TRANSPORTATION
BRIDGE MANAGEMENT SYSTEM
Inspection/CIDR/Bridge Profile Report
Inspection

Structure ID: 100048
DISTRICT: D7 - Tampa

INSPECTION DATE: 3/19/2019 HIMB



Photo 5: Element 241 Re Conc Culvert

Typical scale, Wall 1 west end.

WORK ORDER RECOMMENDATION:
Refer to Photo 1.

FLORIDA DEPARTMENT OF TRANSPORTATION
BRIDGE MANAGEMENT SYSTEM
Inspection/CIDR/Bridge Profile Report
Inspection

Structure ID: 100048

DISTRICT: D7 - Tampa

INSPECTION DATE: 3/19/2019 HIMB



Photo 6: Inspection Notes

Lanes 4, 5, and 6 deterioration. Typical.

REPAIR RECOMMENDATION:

Repair deterioration of the asphalt in Lanes 2, 4, 5, and 6.

**FLORIDA DEPARTMENT OF TRANSPORTATION
BRIDGE MANAGEMENT SYSTEM
Inspection/CIDR/Bridge Profile Report
Inspection**

Structure ID: 100048
DISTRICT: D7 - Tampa

INSPECTION DATE: 3/19/2019 HIMB



Photo 7: Inspection Notes

Impending potholes/potholes in Lane 5.

REPAIR RECOMMENDATION:
Refer to Photo 6.

**FLORIDA DEPARTMENT OF TRANSPORTATION
BRIDGE MANAGEMENT SYSTEM**

**Inspection/CIDR/Bridge Profile Report
CIDR**

REPORT ID: INSP005

Structure ID: 100048

DATE PRINTED: 5/6/2019

Description

Structure Unit Identification

Bridge/Unit Key: 100048 0
Structure Name: US-41 OVER DELANEY CREEK
Description: 3 - 11 x 8 x 120.3 CBC
Type: M - Main

Roadway Identification

NBI Structure No (8): 100048
Position/Prefix (5): 1 - Route On Structure
Kind Hwy (Rte Prefix): 2 U.S. Numbered Hwy
Design Level of Service: 1 Mainline
Route Number/Suffix: 00041 / 0 N/A (NBI)
Feature Intersect (6): DELANEY CREEK
Critical Facility: Not Defense-crit
Facility Carried (7): US-41 (SR-45)
Mile Point (11): 22.999
Latitude (16): 027d54'54.4" Long (17): 082d24'06.8"

Roadway Traffic and Accidents

Lanes (28): 7 Medians: 1 Speed: 50 mph
ADT Class: 4 ADT Class 4
Recent ADT (29): 30711 Year (30): 2019
Future ADT (114): 53284 Year (115): 2039
Truck % ADT (109): 12
Detour Length (19): 5.0 mi
Detour Speed: 50 mph
Accident Count: -1 Rate:

Roadway Classification

Nat. Hwy Sys (104): 1 On the NHS
National base Net (12): 1 - On Base Network
LRS Inventory Rte (13a): 10 060 000 Sub Rte (13b): 00
Functional Class (26): 14 Urban Other Princ
On Federal Aid System: Yes
Defense Hwy (100): 0 Not a STRAHNET hwy
Direction of Traffic (102): 2 2-way traffic
Emergency:

Roadway Clearances

Vertical (10): 99.99 ft Appr. Road (32): 80 ft
Horiz. (47): 86.3 ft Roadway (51): 0 ft
Truck Network (110): 0 Not part of natl netwo
Toll Facility (20): 3 On free road
Fed. Lands Hwy (105): 0 N/A (NBI)
School Bus Route:
Transit Route:

NBI Project Data

Proposed Work (075A): Not Applicable (P)
Work To Be Done By (075B): Not Applicable (P)
Improvement Length (076): 0 ft

Improvement Cost (094): \$ 0.00
Roadway Improvement Cost (095): \$ 0.00
Total Cost (096): \$ 0.00
Year of Estimate (097):

NBI Rating

Channel (61): 7 Minor Damage
Deck (58): N N/A (NBI)
Superstructure (59): N N/A (NBI)
Substructure (60): N N/A (NBI)

Culvert (62): 5 Moderate Damage
Waterway (71): 8 Equal Desirable
Unrepaired Spalls: 0 sq.ft.
Review Required:

FLORIDA DEPARTMENT OF TRANSPORTATION BRIDGE MANAGEMENT SYSTEM

Inspection/CIDR/Bridge Profile Report CIDR

REPORT ID: INSP005

Structure ID: 100048

DATE PRINTED: 5/6/2019

Structure Identification

Admin Area: Hillsborough County
 District (2): D7 - Tampa
 County (3): (10)Hillsborough
 Place Code (4): No city involved
 Location (9): 0.5MI SOUTH OF SR-676
 Border Br St/Reg (98): Not Applicable (P) Share: 0 %
 Border Struct No (99):
 FIPS State/Region (1): 12 Florida Region 4-Atlanta
 NBIS Bridge Len (112): Y - Meets NBI Length
 Parallel Structure (101): No || bridge exists
 Temp. Structure (103): Not Applicable (P)
 Maint. Resp. (21): 1 State Highway Agency
 Owner (22): 1 State Highway Agency
 Historic Signif. (37): 5 Not eligible for NRHP

Structure Type and Material

Curb/Sidewalk (50): Left: 0 ft Right: 0 ft
 Bridge Median (33): 1 Open median
 Main Span Material (43A): 1 Reinforced Concrete
 Appr Span Material (44A): Not Applicable
 Main Span Design (43B): 19 Culvert
 Appr Span Design (44B): Not Applicable

Appraisal**Structure Appraisal**

Open/Posted/Closed (41): A Open, no restriction
 Deck Geometry (68): N Not applicable (NBI)
 Underclearances (69): N Not applicable (NBI)
 Approach Alignment (72): 8-No Speed Red thru Curv
 Bridge Railings (36a): N N/A or not required
 Transitions (36b): N N/A or not required
 Approach Guardrail (36c): 1 Meets Standards
 Approach Guardrail Ends (36d): 0 Substandard
 Scour Critical (113): 8 Stable Above Footing

Minimum Vertical Clearance

Over Structure (53): 99.99 ft
 Under (reference) (54a): N Feature not hwy or RR
 Under (54b): 0 ft

Schedule**Current Inspection**

Inspection Date: 03/19/2019
 Inspector: KNOLEEC - Elliott Coon
 Bridge Group: E7J67
 Alt. Bridge Group:
 Primary Type: Regular NBI
 Review Required:

Geometrics

Spans in Main Unit (45): 3
 Approach Spans (46): 0
 Length of Max Span (48): 12.5 ft
 Structure Length (49): 37.2 ft
 Total Length: 37.2 ft
 Deck Area: 0 sqft
 Structure Flared (35): 0 No flare

Age and Service

Year Built (27): 1959
 Year Reconstructed (106): 0
 Type of Service On (42a): 1 Highway
 Under (42b): 5 Waterway
 Fracture Critical Details: Not Applicable

Deck Type and Material

Deck Width (52): 0 ft
 Skew (34): 22 deg
 Deck Type (107): N N/A (NBI)
 Surface (108): N N/A (no deck (NBI))
 Membrane: N N/A (no deck (NBI))
 Deck Protection: N N/A (no deck (NBI))

Navigation Data

Navigation Control (38): Permit Not Required
 Nav Vertical Clr (39): 0 ft
 Nav Horizontal Clr (40): 0 ft
 Min Vert Lift Clr (116): 0 ft
 Pier Protection (111): Not Applicable (P)

NBI Condition Rating

Sufficiency Rating: * 57.7
 Health Index: 35.3
 Structural Eval (67): 5 Above Min Tolerable
 Deficiency: Not Deficient

Minimum Lateral Underclearance

Reference (55a): N Feature not hwy or RR
 Right Side (55b): 0 ft
 Left Side (56): 0 ft

Next Inspection Date Scheduled

NBI: 03/19/2021
 Element: 03/19/2021
 Fracture Critical:
 Underwater: 02/18/2021
 Other/Special:

**FLORIDA DEPARTMENT OF TRANSPORTATION
BRIDGE MANAGEMENT SYSTEM**

**Inspection/CIDR/Bridge Profile Report
CIDR**

REPORT ID: INSP005

Structure ID: 100048

DATE PRINTED: 5/6/2019

Schedule Cont.

Inspection Types Performed

NBI Element Fracture Critical Underwater Other Special

Inspection Intervals Required (92) Frequency (92) Last Date (93) Inspection Resources

| | | | | | |
|-------------------|-------------------------------------|--------|-----------------|------|------------------------|
| Fracture Critical | <input type="checkbox"/> | mos | | | Crew Hours: 4 |
| Underwater | <input checked="" type="checkbox"/> | 24 mos | 02/18/2019 | | Flagger Hours: 0 |
| Other Special | <input type="checkbox"/> | mos | | | Helper Hours: 0 |
| NBI | | 24 mos | (91) 03/19/2019 | (90) | Snooper Hours: 0 |
| | | | | | Special Crew Hours: 3 |
| | | | | | Special Equip Hours: 0 |

Bridge Related

General Bridge Information

| | | |
|---------------------------------|--|---|
| Parallel Bridge Seq: | | Bridge Rail 1: Not applicable-No rail |
| Channel Depth: 2.8 ft | | Bridge Rail 2: Not applicable-No rail |
| Radio Frequency: -1 | | Electrical Devices: No electric service |
| Phone Number: | | Culvert Type: Cast-in-place conc box |
| Exception Date: | | Maintenance Yard: 796-Tampa |
| Exception Type: Unknown | | FIHS ON / OFF: No Routes on FIHS |
| Accepted By Maint: 01/01/1959 | | Previous Structure: |
| Warranty Expiration: 00/00/0000 | | 2nd Previous Structure: |
| Performance Rating: Fair | | Replacement Structure: |

Permitted Utilities: Power Water Gas Fiber Optic Sewage Other

Bridge Load Rating Information

| | |
|---|---------------------------------------|
| Inventory Type (065): 1 LF Load Factor | Inventory Rating (066): 33.0 tons |
| Operating Type (063): 1 LF Load Factor | Operating Rating (064): 55.0 tons |
| Original Design Load (031): 2 M 13.5 (H 15) | FL120 Permit Rating: -1.0 tons |
| Date: 05/20/1992 | HS20/FL120 Max Span Rating: 55.0 tons |
| Initials: SW | Dynamic Impact in Percent: 20 % |
| Load Rating Rev. Recom.: | Governing Span Length: 11.7 ft |
| Load Rating Plans Status: Unknown | Minimum Span Length: 11.7 ft |
| | Distribution Method: AASHTO formula |

Load Rating Notes:

LEGAL LOADS

SU2: 37.6 tons
 SU3: 55.8 tons
 SU4: 64.5 tons
 C3: 60.4 tons
 C4: 60.0 tons
 C5: 64.9 tons
 ST5: 81.2 tons
 Posting (070): 5 At/Above Legal Loads
 Open/Posted/Closed (041): A Open, no restriction

POSTING

Recom. SU Posting: 99 tons
 Recom. C Posting: 99 tons
 Recom. ST5 Posting: 99 tons
 Actual SU Posting: 99 tons
 Actual C Posting: 99 tons
 Actual ST5 Posting: 99 tons
 Actual Blanket Posting: 99 tons
 Emergency Vehicle: 1 EV inapplicable

FLOOR BEAM (FB)

FB Present: No
 FB Span Length, Gov: 0.0 ft
 FB Spacing, Gov: 0.0 ft
 FB OPR Rating: 0.0 tons
 FB SU4 OPR Rating: 0.0 tons
 FB FL120 Rating: 0.0 tons

SEGMENTAL (SEG)

SEG Wing-Span: -1.0 ft
 SEG Web-to-Web Span: -1.0 ft
 SEG Transverse HL93 Operating: -1.00 RF

Bridge Scour and Storm Information

| | |
|--|---|
| Pile Driving Record: No pile driving records | Scour Recommended I: Stop scour evaluations |
| Foundation Type: Foundation details | Scour Recommended II: No recommendation |
| Mode of Flow: Riverine | Scour Recommended III: No recommendation |
| Rating Scour Eval: Low Risk - Low | Scour Elevation: -1 ft |
| Highest Scour Eval: Phase I completed | Action Elevation: -1 ft |
| Scour Evaluation Method: | Storm Frequency: 100 |

**FLORIDA DEPARTMENT OF TRANSPORTATION
BRIDGE MANAGEMENT SYSTEM**

**Inspection/CIDR/Bridge Profile Report
CIDR**

REPORT ID: INSP005

Structure ID: 100048

DATE PRINTED: 5/6/2019

Elements

Inspection Date: 03/19/2019 HIMB

MISCELLANEOUS : Channel

| Str Unit | Elem/Env | Description | Qty1 | %1 | Qty2 | %2 | Qty3 | %3 | Qty4 | %4 | T Qty |
|----------|----------|-------------|------|----|------|-----|------|----|------|----|--------|
| 0 | 8290 / 4 | Channel | 0 | . | 1 | 100 | 0 | . | 0 | . | 1 (EA) |
| 0 | 9130 / 4 | Aggradation | 0 | . | 1 | 100 | 0 | . | 0 | . | 1 (EA) |

MISCELLANEOUS : Other Elements

| Str Unit | Elem/Env | Description | Qty1 | %1 | Qty2 | %2 | Qty3 | %3 | Qty4 | %4 | T Qty |
|----------|----------|---------------------------------|------|-------|------|-------|------|----|------|----|--------|
| 0 | 8475 / 4 | R/Conc Walls | 128 | 82.05 | 28 | 17.95 | 0 | . | 0 | . | 156 ft |
| 0 | 1080 / 4 | Delamination/Spall/Patched Area | 0 | . | 12 | 100 | 0 | . | 0 | . | 12 ft |
| 0 | 1190 / 4 | Abrasion(PSC/RC) | 0 | . | 16 | 100 | 0 | . | 0 | . | 16 ft |

SUBSTRUCTURE : Culvert

| Str Unit | Elem/Env | Description | Qty1 | %1 | Qty2 | %2 | Qty3 | %3 | Qty4 | %4 | T Qty |
|----------|----------|---------------------------------|------|----|------|----|------|-----|------|----|--------|
| 0 | 241 / 4 | Re Conc Culvert | 0 | . | 0 | . | 361 | 100 | 0 | . | 361 ft |
| 0 | 1080 / 4 | Delamination/Spall/Patched Area | 0 | . | 0 | . | 141 | 100 | 0 | . | 141 ft |
| 0 | 1120 / 4 | Efflorescence/Rust Staining | 0 | . | 0 | . | 1 | 100 | 0 | . | 1 ft |
| 0 | 1190 / 4 | Abrasion(PSC/RC) | 0 | . | 0 | . | 219 | 100 | 0 | . | 219 ft |

Total Number of Elements*: 3

*excluding defects/protective systems

Inspection Information**Inspection Date:** 03/19/2019**Type:** Regular NBI**Inspector:** KNOLEEC - Elliott Coon**Inspection Notes:** Sufficiency Rating Calculation Accepted by knvolnh at 3/29/2019 11:30:02 AM**LOAD CAPACITY EVALUATION:**

The current load rating dated 05/20/1992 appears complete and applicable to the reported structure conditions. – James Appler, PE, 04/12/2019.

SIA item 62 is rated 5 because of the spalls and delaminations throughout the culvert.

Note: Divers inspected Channel, Walls and a Triple Cell Box Culvert each measuring 11ft. W x 8ft. H x 120ft. 4in. L.

New sidewalk is in place over the culvert along west end.

The asphalt surfacing over the structure in Lanes 2, 4, 5, and 6 has raveling, impending potholes, and potholes up to 10ft. x 3ft. x 2in. - NEW. Refer to Photos 6 and 7. REPAIR

Structure Notes

TRAFFIC RESTRICTIONS: Based on the load rating analysis dated 05/20/1992, the structure does not require posting. The structure is not posted.

Bridge No. 100467 is south and Bridge No. 100049 is north of this Bridge No. 100048.

Structure inventoried from south to north.

Fill depth = up to 26in.

Schedule Notes

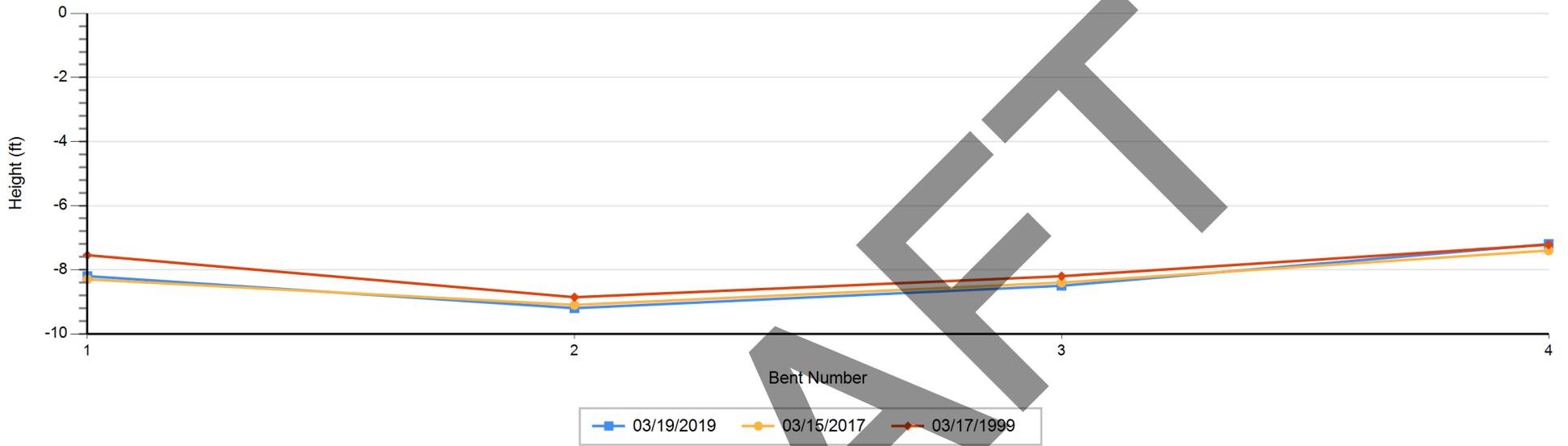
FLORIDA DEPARTMENT OF TRANSPORTATION BRIDGE MANAGEMENT SYSTEM

Inspection/CIDR/Bridge Profile Report

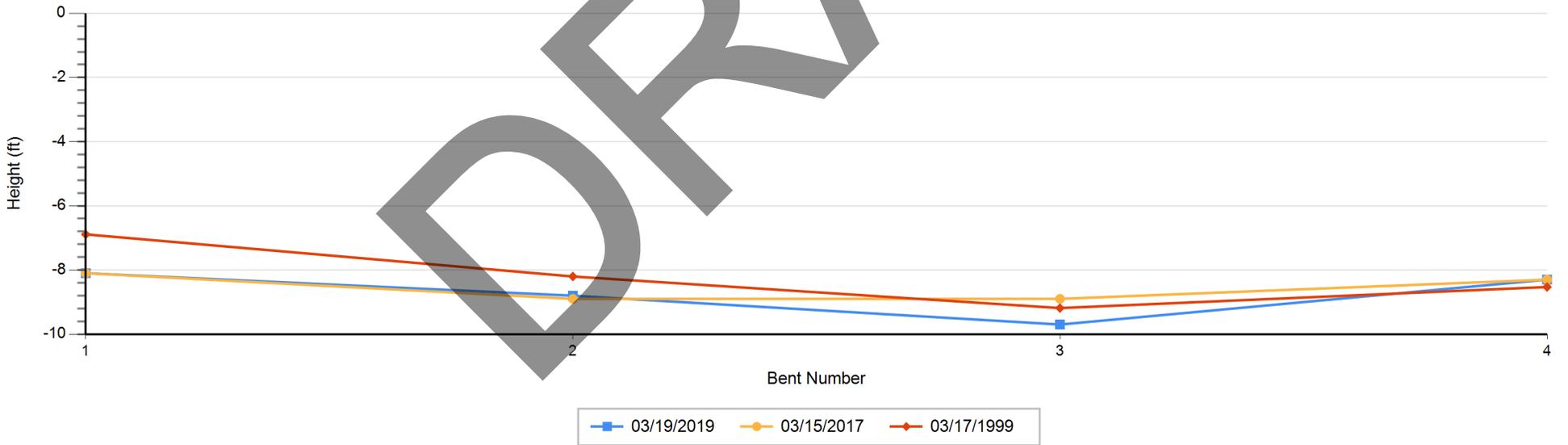
Bridge Profile

DATE PRINTED: 5/6/2019 11:22:32 AM

Left Profile by Inspection



Right Profile by Inspection



FLORIDA DEPARTMENT OF TRANSPORTATION BRIDGE MANAGEMENT SYSTEM

Inspection/CIDR/Bridge Profile Report

Bridge Profile

Profile Data - Numerical Summary

Inspection Date and Key: 3/19/2019

HIMB

| Bent # | Left Height | Right Height |
|--------|-------------|--------------|
| 1 | 8.20 | 8.10 |
| 2 | 9.20 | 8.80 |
| 3 | 8.50 | 9.70 |
| 4 | 7.20 | 8.30 |

(All Heights are in Feet)

Air Temp:

Profile Notes:

Measurements referenced from the top of the headwalls.
Waterline at Barrel 2 = 6.9ft.

Inspection Date and Key: 3/15/2017

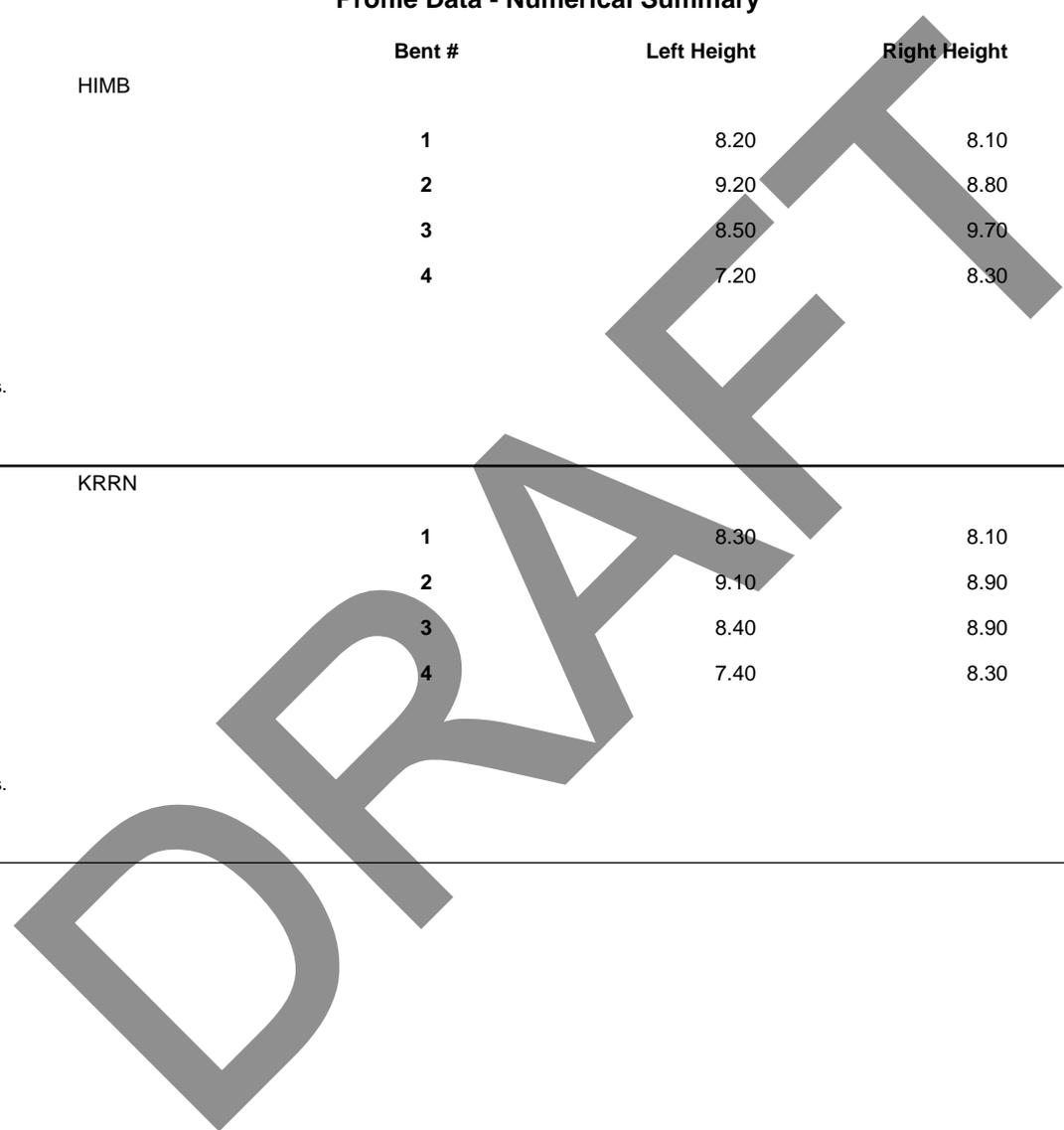
KRRN

| | | |
|---|------|------|
| 1 | 8.30 | 8.10 |
| 2 | 9.10 | 8.90 |
| 3 | 8.40 | 8.90 |
| 4 | 7.40 | 8.30 |

Air Temp:

Profile Notes:

Measurements referenced from the top of the headwalls.
Waterline at Barrel 2 = 7.1ft.



FLORIDA DEPARTMENT OF TRANSPORTATION BRIDGE MANAGEMENT SYSTEM

Inspection/CIDR/Bridge Profile Report

Bridge Profile

DATE PRINTED: 5/6/2019 11:22:32 AM

Profile Data - Numerical Summary

Inspection Date and Key: 3/17/1999

BFLM

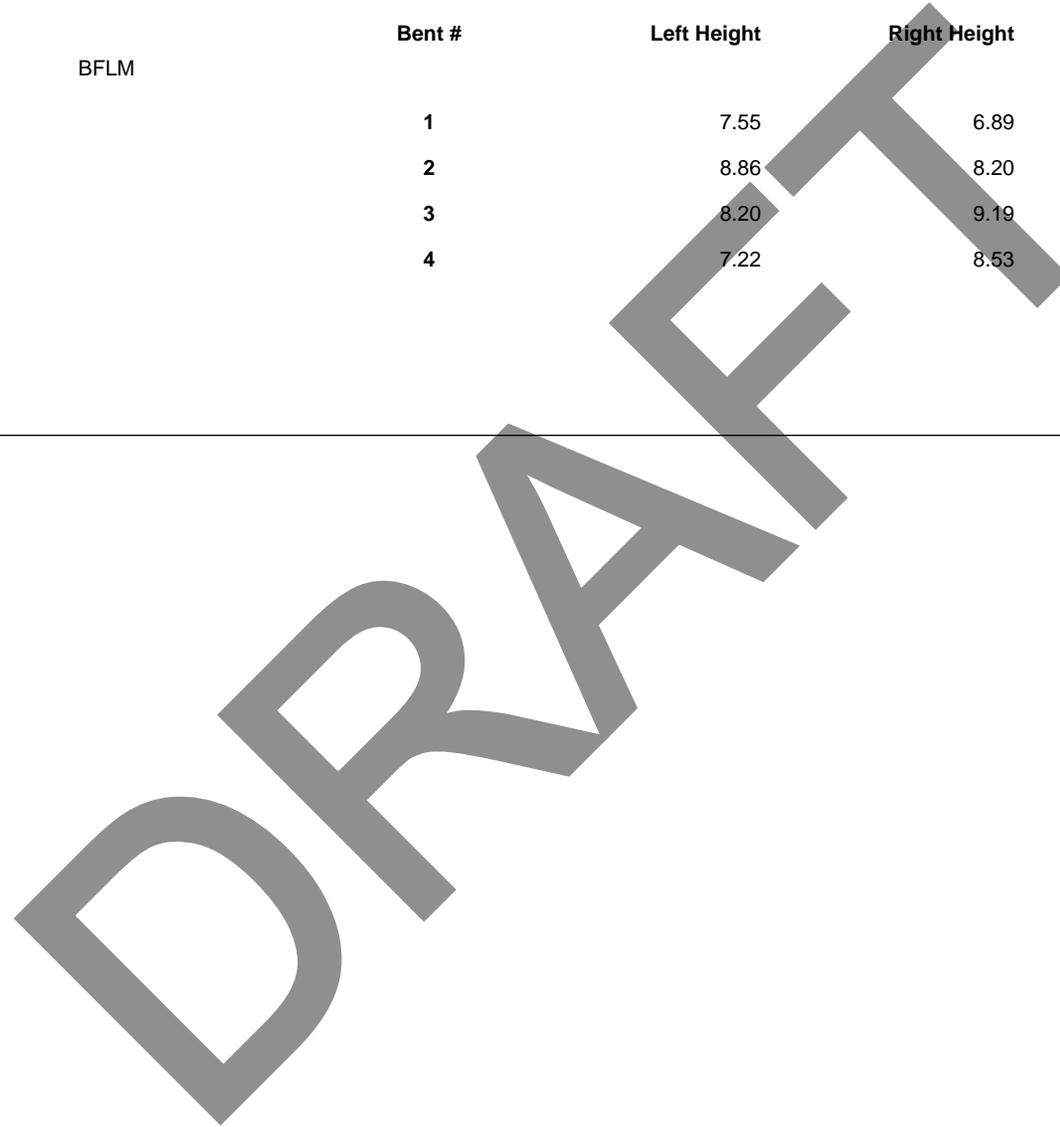
| Bent # | Left Height | Right Height |
|--------|-------------|--------------|
| 1 | 7.55 | 6.89 |
| 2 | 8.86 | 8.20 |
| 3 | 8.20 | 9.19 |
| 4 | 7.22 | 8.53 |

(All Heights are in Feet)

Air Temp:

Profile Notes:

Measurements taken from top of head wall.



**Routine Underwater Bridge Inspection Report
BOLT UNDERWATER SERVICES, INC.**

**for
VOLKERT, INC.**

NBI Structure ID. (8): **100048**

Underwater Date (93): 02/18/19

Structure/Roadway Identification:

District (2): 07
County (3): Hillsborough
Feature Intersected (6): Delaney Creek
Facility Carried (7): US-41 (SR-45)

Underwater Inspection Details:

Special Crew Hours: 6.0
Max. Depth: 4ft. 2in. at Cells
Type of Dive Insp.: Level II (Snorkel)
Type of Boat Used: N/A
Water Type/Marine Growth: Brackish/Tidal – (Dead) Barnacles

Previous Inspection:

Lead Diver: Hoogland, Keith S. **C.B.I. No.:** 00341 **Inspection Date:** 02/14/17

Inspection Personnel:

| Field Personnel: | Title | P.E./C.B.I. No.: | Duty: | Signature: |
|-------------------|----------------|------------------|-------|---|
| Qualls, Dion C. | SCUBI | 00470/Lead | Dive |  |
| DeReus, Scott | Chief Engineer | 51907 | Tend | |
| Payne, Timothy N. | SI | | Dive | |

8290 CHANNEL 1 EA. = CS-2: 1EA.

CS-2 9130

Chart of maximum build-up: (1EA)

| Cell | 2003 | 2007 | 2009 | 2010 | 2013 | 2015 | 2017 | 2019 |
|------|-------|-------|-----------|-------|-----------|-------|-----------|-------|
| 1 | 30in. | 30in. | 3ft. 6in. | 3ft. | 3ft. | 24in. | 18in. | 24in. |
| 2 | 18in. | 20in. | 24in. | 21in. | 2ft. 6in. | 18in. | 24in. | 24in. |
| 3 | 3ft. | 3ft. | 3ft. | 3ft. | 3ft. | 24in. | 3ft. 8in. | 24in. |

There is debris throughout the channel.

8475 R/CONC WALLS 9 FT. = CS-2: 9FT.

NOTE: This element represents the wingwalls at all four corners of the structure.
The wingwalls have less than 3ft. of water and will be removed next cycle if condition remains.

CS-2 1190 The lower portions of wingwalls have scale (loss of matrix) up to 3/8in. deep adjacent to the openings at transitions. (9FT)

BOLT UNDERWATER SERVICES, INC.

Structure ID: 100048
District: 07

Inspection Date: 02/18/19

241 RE CONC CULVERT

361 FT. = CS-3: 361FT.

NOTE: This element represents a Triple Cell Box Culvert with each cell measuring 11ft. W x 8ft. H x 120ft. 4in. L.

CS-3 1190 The sidewalls have intermittent areas of honeycomb up to 1in. deep throughout and scale (loss of aggregate) up to 3/8in. deep. (359FT)

See chart for additional deficiencies.

Chart of deficiencies.

| CS | Defect No. | Location | Type | Comment | Size | Qty (FT) |
|----|------------|---|---------------------|--|------------------------------------|----------|
| | | Cell 1 Wall 1, Ceiling and Wall 2, 58ft. from west end | Sound patch | Does not extend past marine growth. Will be removed next cycle if condition remains. | Full height x 3ft. W | |
| | | Cell 1 Wall 1, 62ft. from west end, 24in. from floor slab extending up to ceiling and down Wall 2 ending before waterline | Sound patch | Does not extend past marine growth. Will be removed next cycle if condition remains. | Full height x 24in. W | |
| 3 | 1120 | Cell 1 Wall 2 east face, 3ft. below ceiling | Two vertical cracks | Corrosion bleedout | 12in. L x 1/32in. W - NEW | 1 |
| | | Cell 2 Wall 2, 36ft. to 45ft. from west end, 3ft. below ceiling | Delamination | | 5ft. H x 10ft. L | |
| | | Cell 2, Wall 2, 60ft. from east end, 24in. below ceiling | Delamination | | 3ft. H x 24in. W | |
| | | Cell 2, Wall 2, 50ft. from east end, 24in. below ceiling | Delamination | | 24in. H x 24in. W | |
| | | Cell 2, Wall 3, 40ft. from east end, 24in. below ceiling | Delamination | | 4ft. H x 18in. W | |
| | | Cell 3, Wall 3, 28ft. from east end, 3ft. below ceiling | Delamination | | 24in. H x 6ft. W - INCREASE | |
| | | Cell 3, Wall 3, 18in. from east end, 2ft. below ceiling | Delamination | | 3ft. H x 24in. W - INCREASE | |
| | | Cell 3, Wall 3, 12ft. from east end, 18in. below ceiling | Delamination | | 3ft. 5in. H x 3ft. W - INCREASE | |
| 3 | 1080 | Cell 3 Wall 4, 12ft. from west end, 4ft. below ceiling adjacent drain inlet | Honeycomb | | 2in. diameter x 1in. deep | 1 |

*Deficiencies with no Defect noted have been superseded by a higher level condition state.

INCIDENTAL:

The sidewalls have exposed form ties throughout, starting 3ft. 6in. below the ceiling.

NOTE: The previously reported sound patch (vertical crack) 7ft. from east end of Cell 1 Wall was above the marine growth this inspection and will be removed next cycle if condition remains.

The previously reported vertical crack with corrosion bleedout in the east end of Wall 1 Cell 2 was above the marine growth this inspection and will be removed next cycle if condition remains.

The previously reported sound patch in the north face of the east end of Cell 1 Wall 2 was above the marine growth this inspection and will be removed next cycle if condition remains.

The previously reported sound patch 12in. from east end of Cell 2 Wall 2 was above the marine growth this inspection and will be removed next cycle if condition remains.

CAT: The previously reported horizontal crack and diagonal crack with light efflorescence in the east end of Cell 1 Wall 1 have been repaired.

The previously reported vertical crack with corrosion bleedout 8in. from the west end of Cell 1 Wall 2 has been repaired.

Cleaning Log: No cleaning due to freshwater environment.

This report contains information relating to the physical security of a structure and depictions of the structure. This information is confidential and exempt from public inspection pursuant to sections 119.071(3)(a) and 119.071(3)(b), Florida Statutes.

BOLT UNDERWATER SERVICES, INC.

Structure ID: 100048

District: 07

Inspection Date: 02/18/19

INSPECTION NOTES: Divers inspected Channel, Walls and a Triple Cell Box Culvert each measuring 11ft. W x 8ft. H x 120ft. 4in. L.

STRUCTURE NOTES: Structure inventoried south to north.

PHOTO LOG:

No. 1: Structure ID.

No. 2: West elevation

No. 3: Cell 1, typical scale

No. 4: Cell 3 Wall 4, 12ft. from west end, honeycomb

DRAFT

APPENDIX F

SWMM Model Analysis

DRAFT

US 41 at CSX

440749-1-52-01

Corrected Effective and Proposed Hydraulic Models

SWMM 5.2

DRAFT

Summary of Corrected and Revised Stages for Bridge

| Node | 2.33YR24HR | | | 25YR24HR | | | 50YR24HR | | | 100YR24HR | | | 500YR24HR | | | Notes |
|--------|--------------------------------|---------------------|-----------------|--------------------------------|---------------------|-----------------|--------------------------------|---------------------|-----------------|--------------------------------|---------------------|-----------------|--------------------------------|---------------------|-----------------|-------|
| | Corrected Effective Stage (ft) | Proposed Stage (ft) | Difference (ft) | Corrected Effective Stage (ft) | Proposed Stage (ft) | Difference (ft) | Corrected Effective Stage (ft) | Proposed Stage (ft) | Difference (ft) | Corrected Effective Stage (ft) | Proposed Stage (ft) | Difference (ft) | Corrected Effective Stage (ft) | Proposed Stage (ft) | Difference (ft) | |
| 216148 | 21.87 | 21.87 | 0 | 22.01 | 22.01 | 0 | 22.1 | 22.1 | 0 | 22.13 | 22.13 | 0 | 22.17 | 22.17 | 0 | |
| 216798 | 40.04 | 40.04 | 0 | 42.12 | 42.12 | 0 | 42.31 | 42.32 | 0.01 | 42.41 | 42.41 | 0 | 42.75 | 42.75 | 0 | |
| 216898 | 39.97 | 39.97 | 0 | 39.98 | 39.98 | 0 | 39.98 | 39.98 | 0 | 39.99 | 39.99 | 0 | 40 | 40 | 0 | |
| 216918 | 61.59 | 61.59 | 0 | 61.76 | 61.76 | 0 | 61.86 | 61.86 | 0 | 61.9 | 61.9 | 0 | 62.04 | 62.04 | 0 | |
| 217398 | 30.47 | 30.47 | 0 | 30.61 | 30.61 | 0 | 30.88 | 30.88 | 0 | 30.95 | 30.95 | 0 | 31.42 | 31.42 | 0 | |
| 220898 | 27.05 | 27.05 | 0 | 27.08 | 27.08 | 0 | 27.13 | 27.13 | 0 | 27.14 | 27.14 | 0 | 27.18 | 27.18 | 0 | |
| 220908 | 34.56 | 34.56 | 0 | 34.58 | 34.58 | 0 | 34.6 | 34.6 | 0 | 34.61 | 34.61 | 0 | 34.65 | 34.65 | 0 | |
| 221118 | 39.73 | 39.73 | 0 | 40.32 | 40.32 | 0 | 40.58 | 40.58 | 0 | 40.71 | 40.71 | 0 | 41.3 | 41.3 | 0 | |
| 221308 | 31.33 | 31.33 | 0 | 31.5 | 31.5 | 0 | 31.54 | 31.54 | 0 | 31.61 | 31.61 | 0 | 32.46 | 32.46 | 0 | |
| 222048 | 30.32 | 30.32 | 0 | 30.37 | 30.37 | 0 | 30.39 | 30.39 | 0 | 30.4 | 30.4 | 0 | 30.44 | 30.44 | 0 | |
| 222358 | 28.14 | 28.14 | 0 | 28.52 | 28.52 | 0 | 28.68 | 28.68 | 0 | 28.74 | 28.74 | 0 | 29.03 | 29.03 | 0 | |
| 222408 | 33 | 33 | 0 | 33.34 | 33.34 | 0 | 33.42 | 33.42 | 0 | 33.49 | 33.49 | 0 | 33.85 | 33.85 | 0 | |
| 222768 | 30.28 | 30.28 | 0 | 30.5 | 30.5 | 0 | 30.6 | 30.6 | 0 | 30.69 | 30.69 | 0 | 31.04 | 31.04 | 0 | |
| 222778 | 27.3 | 27.3 | 0 | 27.37 | 27.37 | 0 | 27.42 | 27.42 | 0 | 27.44 | 27.44 | 0 | 27.48 | 27.48 | 0 | |
| 222848 | 46.68 | 46.68 | 0 | 47.62 | 47.62 | 0 | 48.13 | 48.13 | 0 | 48.58 | 48.58 | 0 | 50.61 | 50.61 | 0 | |
| 222858 | 47.33 | 47.33 | 0 | 48.16 | 48.16 | 0 | 48.58 | 48.58 | 0 | 48.76 | 48.76 | 0 | 50.22 | 50.22 | 0 | |
| 222898 | 72.7 | 72.7 | 0 | 73.37 | 73.37 | 0 | 73.83 | 73.83 | 0 | 74.12 | 74.12 | 0 | 75.41 | 75.41 | 0 | |
| 222918 | 63.12 | 63.12 | 0 | 63.33 | 63.33 | 0 | 63.37 | 63.37 | 0 | 63.41 | 63.41 | 0 | 63.59 | 63.59 | 0 | |
| 223028 | 41.25 | 41.25 | 0 | 41.52 | 41.52 | 0 | 41.75 | 41.75 | 0 | 41.87 | 41.87 | 0 | 42.57 | 42.57 | 0 | |
| 223118 | 50.2 | 50.2 | 0 | 50.41 | 50.41 | 0 | 50.45 | 50.45 | 0 | 50.46 | 50.46 | 0 | 50.51 | 50.51 | 0 | |
| 223148 | 54.77 | 54.77 | 0 | 54.8 | 54.8 | 0 | 54.81 | 54.81 | 0 | 54.82 | 54.82 | 0 | 54.83 | 54.83 | 0 | |
| 223208 | 44.82 | 44.82 | 0 | 44.89 | 44.89 | 0 | 44.92 | 44.92 | 0 | 44.94 | 44.94 | 0 | 45.08 | 45.08 | 0 | |
| 223228 | 50.21 | 50.21 | 0 | 50.43 | 50.43 | 0 | 50.46 | 50.46 | 0 | 50.47 | 50.47 | 0 | 50.57 | 50.57 | 0 | |
| 223258 | 48.67 | 48.67 | 0 | 49.04 | 49.04 | 0 | 49.08 | 49.08 | 0 | 49.09 | 49.09 | 0 | 49.73 | 49.73 | 0 | |
| 223278 | 76.94 | 76.94 | 0 | 76.99 | 76.99 | 0 | 77.01 | 77.01 | 0 | 77.02 | 77.02 | 0 | 77.13 | 77.13 | 0 | |
| 223298 | 62.02 | 62.02 | 0 | 62.17 | 62.17 | 0 | 62.18 | 62.18 | 0 | 62.18 | 62.18 | 0 | 62.19 | 62.19 | 0 | |
| 223318 | 46.86 | 46.86 | 0 | 47.07 | 47.07 | 0 | 47.12 | 47.12 | 0 | 47.19 | 47.19 | 0 | 47.66 | 47.66 | 0 | |
| 223328 | 66.68 | 66.68 | 0 | 66.81 | 66.81 | 0 | 66.84 | 66.84 | 0 | 66.85 | 66.85 | 0 | 66.92 | 66.92 | 0 | |
| 223448 | 39.71 | 39.71 | 0 | 39.81 | 39.81 | 0 | 39.85 | 39.85 | 0 | 39.86 | 39.86 | 0 | 39.94 | 39.94 | 0 | |
| 223458 | 35.23 | 35.23 | 0 | 35.93 | 35.93 | 0 | 36.49 | 36.49 | 0 | 36.72 | 36.72 | 0 | 37.91 | 37.91 | 0 | |
| 223528 | 36.33 | 36.33 | 0 | 36.74 | 36.74 | 0 | 37.1 | 37.1 | 0 | 37.41 | 37.41 | 0 | 38.4 | 38.4 | 0 | |
| 223538 | 64.32 | 64.32 | 0 | 64.38 | 64.38 | 0 | 64.39 | 64.39 | 0 | 64.39 | 64.39 | 0 | 64.41 | 64.41 | 0 | |
| 280625 | 7.22 | 7.22 | 0 | 8.18 | 8.18 | 0 | 8.58 | 8.58 | 0 | 8.77 | 8.77 | 0 | 9.61 | 9.61 | 0 | |
| 200000 | 1.62 | 1.62 | 0 | 1.62 | 1.62 | 0 | 1.62 | 1.62 | 0 | 1.62 | 1.62 | 0 | 1.62 | 1.62 | 0 | |
| 200205 | 3 | 3 | 0 | 3 | 3 | 0 | 3 | 3 | 0 | 3 | 3 | 0 | 3 | 3 | 0 | |
| 201000 | 1.62 | 1.62 | 0 | 1.62 | 1.62 | 0 | 1.62 | 1.62 | 0 | 1.62 | 1.62 | 0 | 1.62 | 1.62 | 0 | |
| 202000 | 1.62 | 1.62 | 0 | 1.62 | 1.62 | 0 | 1.62 | 1.62 | 0 | 1.62 | 1.62 | 0 | 1.62 | 1.62 | 0 | |
| 202100 | 1.62 | 1.62 | 0 | 1.62 | 1.62 | 0 | 1.62 | 1.62 | 0 | 1.62 | 1.62 | 0 | 1.62 | 1.62 | 0 | |
| 210000 | 1.62 | 1.62 | 0 | 1.62 | 1.62 | 0 | 1.62 | 1.62 | 0 | 1.62 | 1.62 | 0 | 1.62 | 1.62 | 0 | |
| 210795 | 1.62 | 1.62 | 0 | 1.62 | 1.62 | 0 | 1.62 | 1.62 | 0 | 1.62 | 1.62 | 0 | 1.62 | 1.62 | 0 | |
| 210805 | 3 | 3 | 0 | 3 | 3 | 0 | 3 | 3 | 0 | 3 | 3 | 0 | 3 | 3 | 0 | |
| 212485 | 18 | 18 | 0 | 18 | 18 | 0 | 18 | 18 | 0 | 18 | 18 | 0 | 18 | 18 | 0 | |
| 212495 | 17 | 17 | 0 | 17 | 17 | 0 | 17 | 17 | 0 | 17 | 17 | 0 | 17 | 17 | 0 | |
| 212955 | 22 | 22 | 0 | 22 | 22 | 0 | 22 | 22 | 0 | 22 | 22 | 0 | 22 | 22 | 0 | |
| 214055 | 27 | 27 | 0 | 27 | 27 | 0 | 27 | 27 | 0 | 27 | 27 | 0 | 27 | 27 | 0 | |
| 214245 | 25 | 25 | 0 | 25 | 25 | 0 | 25 | 25 | 0 | 25 | 25 | 0 | 25 | 25 | 0 | |
| 216146 | 20.86 | 20.86 | 0 | 20.93 | 20.93 | 0 | 20.95 | 20.95 | 0 | 20.96 | 20.96 | 0 | 20.97 | 20.97 | 0 | |
| 216385 | 28 | 28 | 0 | 28 | 28 | 0 | 28 | 28 | 0 | 28 | 28 | 0 | 28 | 28 | 0 | |
| 216558 | 27.97 | 27.97 | 0 | 27.97 | 27.97 | 0 | 27.97 | 27.97 | 0 | 27.97 | 27.97 | 0 | 27.97 | 27.97 | 0 | |
| 216668 | 36.4 | 36.4 | 0 | 36.4 | 36.4 | 0 | 36.4 | 36.4 | 0 | 36.4 | 36.4 | 0 | 36.4 | 36.4 | 0 | |
| 216778 | 28.2 | 28.2 | 0 | 28.2 | 28.2 | 0 | 28.2 | 28.2 | 0 | 28.2 | 28.2 | 0 | 28.2 | 28.2 | 0 | |
| 216788 | 12.94 | 12.94 | 0 | 12.94 | 12.94 | 0 | 12.94 | 12.94 | 0 | 12.94 | 12.94 | 0 | 12.94 | 12.94 | 0 | |
| 216796 | 33.15 | 33.15 | 0 | 33.15 | 33.15 | 0 | 33.15 | 33.15 | 0 | 33.15 | 33.15 | 0 | 33.15 | 33.15 | 0 | |
| 216896 | 38.93 | 38.93 | 0 | 38.93 | 38.93 | 0 | 38.93 | 38.93 | 0 | 38.93 | 38.93 | 0 | 38.94 | 38.94 | 0 | |
| 216916 | 60.58 | 60.58 | 0 | 60.66 | 60.66 | 0 | 60.69 | 60.69 | 0 | 60.7 | 60.7 | 0 | 60.74 | 60.74 | 0 | |
| 217396 | 29.43 | 29.43 | 0 | 29.48 | 29.48 | 0 | 29.54 | 29.54 | 0 | 29.56 | 29.56 | 0 | 29.65 | 29.65 | 0 | |
| 217498 | 34.57 | 34.57 | 0 | 34.57 | 34.57 | 0 | 34.57 | 34.57 | 0 | 34.57 | 34.57 | 0 | 34.57 | 34.57 | 0 | |
| 220896 | 26.04 | 26.04 | 0 | 26.06 | 26.06 | 0 | 26.08 | 26.08 | 0 | 26.08 | 26.08 | 0 | 26.09 | 26.09 | 0 | |
| 220906 | 33.55 | 33.55 | 0 | 33.56 | 33.56 | 0 | 33.57 | 33.57 | 0 | 33.57 | 33.57 | 0 | 33.59 | 33.59 | 0 | |
| 220938 | 27.28 | 27.28 | 0 | 27.28 | 27.28 | 0 | 27.28 | 27.28 | 0 | 27.28 | 27.28 | 0 | 27.28 | 27.28 | 0 | |
| 221116 | 31.05 | 31.05 | 0 | 31.05 | 31.05 | 0 | 31.05 | 31.05 | 0 | 31.05 | 31.05 | 0 | 31.05 | 31.05 | 0 | |
| 221228 | 28.42 | 28.42 | 0 | 28.42 | 28.42 | 0 | 28.42 | 28.42 | 0 | 28.42 | 28.42 | 0 | 28.42 | 28.42 | 0 | |
| 221306 | 30.21 | 30.21 | 0 | 30.26 | 30.26 | 0 | 30.27 | 30.27 | 0 | 30.29 | 30.29 | 0 | 30.47 | 30.47 | 0 | |
| 222046 | 30.3 | 30.3 | 0 | 30.33 | 30.33 | 0 | 30.34 | 30.34 | 0 | 30.35 | 30.35 | 0 | 30.37 | 30.37 | 0 | |
| 222088 | 33.08 | 33.08 | 0 | 33.08 | 33.08 | 0 | 33.08 | 33.08 | 0 | 33.08 | 33.08 | 0 | 33.08 | 33.08 | 0 | |
| 222168 | 26.16 | 26.16 | 0 | 26.16 | 26.16 | 0 | 26.16 | 26.16 | 0 | 26.16 | 26.16 | 0 | 26.16 | 26.16 | 0 | |
| 222356 | 27.09 | 27.09 | 0 | 27.19 | 27.19 | 0 | 27.22 | 27.22 | 0 | 27.24 | 27.24 | 0 | 27.29 | 27.29 | 0 | |
| 222378 | 31.14 | 31.14 | 0 | 31.14 | 31.14 | 0 | 31.14 | 31.14 | 0 | 31.14 | 31.14 | 0 | 31.14 | 31.14 | 0 | |
| 222406 | 32 | 32 | 0 | 32.14 | 32.14 | 0 | 32.16 | 32.16 | 0 | 32.17 | 32.17 | 0 | 32.25 | 32.25 | 0 | |
| 222478 | 33.08 | 33.08 | 0 | 33.08 | 33.08 | 0 | 33.08 | 33.08 | 0 | 33.08 | 33.08 | 0 | 33.08 | 33.08 | 0 | |
| 222483 | 33.23 | 33.23 | 0 | 33.23 | 33.23 | 0 | 33.23 | 33.23 | 0 | 33.23 | 33.23 | 0 | 33.23 | 33.23 | 0 | |
| 222493 | 38 | 38 | 0 | 38 | 38 | 0 | 38 | 38 | 0 | 38 | 38 | 0 | 38 | 38 | 0 | |
| 222503 | 33 | 33 | 0 | 33 | 33 | 0 | 33 | 33 | 0 | 33 | 33 | 0 | 33 | 33 | 0 | |
| 222638 | 30.89 | 30.89 | 0 | 30.89 | 30.89 | 0 | 30.89 | 30.89 | 0 | 30.89 | 30.89 | 0 | 30.89 | 30.89 | 0 | |
| 222658 | 29.78 | 29.78 | 0 | 29.78 | 29.78 | 0 | 29.78 | 29.78 | 0 | 29.78 | 29.78 | 0 | 29.78 | 29.78 | 0 | |
| 222698 | 23.62 | 23.62 | 0 | 23.62 | 23.62 | 0 | 23.62 | 23.62 | 0 | 23.62 | 23.62 | 0 | 23.62 | 23.62 | 0 | |
| 222718 | 33 | 33 | 0 | 33 | 33 | 0 | 33 | 33 | 0 | 33 | 33 | 0 | 33 | 33 | 0 | |
| 222766 | 29.25 | 29.25 | 0 | 29.32 | 29.32 | 0 | 29.34 | 29.34 | 0 | 29.36 | 29.36 | 0 | 29.43 | 29.43 | 0 | |
| 222776 | 26.15 | 26.15 | 0 | 26.17 | 26.17 | 0 | 26.19 | 26.19 | 0 | 26.2 | 26.2 | 0 | 26.22 | 26.22 | 0 | |
| 222798 | 15.9 | 15.9 | 0 | 15.9 | 15.9 | 0 | 15.9 | 15.9 | 0 | 15.9 | 15.9 | 0 | 15.9 | 15.9 | 0 | |
| 222846 | 45.74 | 45.74 | 0 | 46.21 | 46.21 | 0 | 46.48 | 46.48 | 0 | 46.73 | 46.73 | 0 | 47.82 | 47.82 | 0 | |
| 222856 | 46.54 | 46.54 | 0 | 46.94 | 46.94 | 0 | 47.15 | 47.15 | 0 | 47.24 | 47.24 | 0 | 47.99 | 47.99 | 0 | |
| 222888 | 68.12 | 68.12 | 0 | 68.12 | 68.12 | 0 | 68.12 | 68.12 | 0 | 68.12 | 68.12 | 0 | 68.12 | 68.12 | 0 | |
| 222896 | 71.56 | 71.56 | 0 | 71.7 | 71.7 | 0 | 71.79 | 71.79 | 0 | 71.84 | 71.84 | 0 | 72.07 | 72.07 | 0 | |
| 222908 | 48 | 48 | 0 | 48 | 48 | 0 | 48 | 48 | 0 | 48 | 48 | 0 | 48 | 48 | 0 | |
| 222916 | 53.81 | 53.81 | 0 | 54 | 54 | 0 | 54.04 | 54.04 | 0 | 54.07 | 54.07 | 0 | 54.23 | 54.23 | 0</ | |

Summary of Corrected and Revised Stages for Bridge

| Node | 2.33YR24HR | | | 25YR24HR | | | 50YR24HR | | | 100YR24HR | | | 500YR24HR | | | Notes |
|--------|--------------------------------|---------------------|-----------------|--------------------------------|---------------------|-----------------|--------------------------------|---------------------|-----------------|--------------------------------|---------------------|-----------------|--------------------------------|---------------------|-----------------|----------------------|
| | Corrected Effective Stage (ft) | Proposed Stage (ft) | Difference (ft) | Corrected Effective Stage (ft) | Proposed Stage (ft) | Difference (ft) | Corrected Effective Stage (ft) | Proposed Stage (ft) | Difference (ft) | Corrected Effective Stage (ft) | Proposed Stage (ft) | Difference (ft) | Corrected Effective Stage (ft) | Proposed Stage (ft) | Difference (ft) | |
| 222988 | 79.03 | 79.03 | 0 | 79.03 | 79.03 | 0 | 79.03 | 79.03 | 0 | 79.03 | 79.03 | 0 | 79.03 | 79.03 | 0 | |
| 222998 | 63.97 | 63.97 | 0 | 63.97 | 63.97 | 0 | 63.97 | 63.97 | 0 | 63.97 | 63.97 | 0 | 63.97 | 63.97 | 0 | |
| 223026 | 38.12 | 38.12 | 0 | 38.12 | 38.12 | 0 | 38.12 | 38.12 | 0 | 38.12 | 38.12 | 0 | 38.12 | 38.12 | 0 | |
| 223038 | 36.14 | 36.14 | 0 | 36.14 | 36.14 | 0 | 36.14 | 36.14 | 0 | 36.14 | 36.14 | 0 | 36.14 | 36.14 | 0 | |
| 223116 | 48.88 | 48.88 | 0 | 49.01 | 49.01 | 0 | 49.03 | 49.03 | 0 | 49.03 | 49.03 | 0 | 49.07 | 49.07 | 0 | |
| 223138 | 47.3 | 47.3 | 0 | 47.3 | 47.3 | 0 | 47.3 | 47.3 | 0 | 47.3 | 47.3 | 0 | 47.3 | 47.3 | 0 | |
| 223146 | 51.54 | 51.54 | 0 | 51.57 | 51.57 | 0 | 51.58 | 51.58 | 0 | 51.59 | 51.59 | 0 | 51.6 | 51.6 | 0 | |
| 223178 | 42.77 | 42.77 | 0 | 42.77 | 42.77 | 0 | 42.77 | 42.77 | 0 | 42.77 | 42.77 | 0 | 42.77 | 42.77 | 0 | |
| 223206 | 43.69 | 43.69 | 0 | 43.73 | 43.73 | 0 | 43.74 | 43.74 | 0 | 43.75 | 43.75 | 0 | 43.82 | 43.82 | 0 | |
| 223226 | 45.35 | 45.35 | 0 | 45.35 | 45.35 | 0 | 45.35 | 45.35 | 0 | 45.35 | 45.35 | 0 | 45.35 | 45.35 | 0 | |
| 223256 | 47.37 | 47.37 | 0 | 47.58 | 47.58 | 0 | 47.6 | 47.6 | 0 | 47.61 | 47.61 | 0 | 47.98 | 47.98 | 0 | |
| 223276 | 75.92 | 75.92 | 0 | 75.95 | 75.95 | 0 | 75.96 | 75.96 | 0 | 75.96 | 75.96 | 0 | 75.99 | 75.99 | 0 | |
| 223288 | 74.67 | 74.67 | 0 | 74.67 | 74.67 | 0 | 74.67 | 74.67 | 0 | 74.67 | 74.67 | 0 | 74.67 | 74.67 | 0 | |
| 223296 | 61 | 61 | 0 | 61.06 | 61.06 | 0 | 61.07 | 61.07 | 0 | 61.07 | 61.07 | 0 | 61.07 | 61.07 | 0 | |
| 223308 | 66.17 | 66.17 | 0 | 66.17 | 66.17 | 0 | 66.17 | 66.17 | 0 | 66.17 | 66.17 | 0 | 66.17 | 66.17 | 0 | |
| 223316 | 43.83 | 43.83 | 0 | 43.83 | 43.83 | 0 | 43.83 | 43.83 | 0 | 43.83 | 43.83 | 0 | 43.83 | 43.83 | 0 | |
| 223326 | 59.11 | 59.11 | 0 | 59.11 | 59.11 | 0 | 59.11 | 59.11 | 0 | 59.11 | 59.11 | 0 | 59.11 | 59.11 | 0 | |
| 223338 | 65.39 | 65.39 | 0 | 65.39 | 65.39 | 0 | 65.39 | 65.39 | 0 | 65.39 | 65.39 | 0 | 65.39 | 65.39 | 0 | |
| 223348 | 63.2 | 63.2 | 0 | 63.2 | 63.2 | 0 | 63.2 | 63.2 | 0 | 63.2 | 63.2 | 0 | 63.2 | 63.2 | 0 | |
| 223408 | 38.32 | 38.32 | 0 | 38.32 | 38.32 | 0 | 38.32 | 38.32 | 0 | 38.32 | 38.32 | 0 | 38.32 | 38.32 | 0 | |
| 223418 | 31.55 | 31.55 | 0 | 31.55 | 31.55 | 0 | 31.55 | 31.55 | 0 | 31.55 | 31.55 | 0 | 31.55 | 31.55 | 0 | |
| 223428 | 39.64 | 39.64 | 0 | 39.64 | 39.64 | 0 | 39.64 | 39.64 | 0 | 39.64 | 39.64 | 0 | 39.64 | 39.64 | 0 | |
| 223446 | 38.44 | 38.44 | 0 | 38.5 | 38.5 | 0 | 38.52 | 38.52 | 0 | 38.53 | 38.53 | 0 | 38.57 | 38.57 | 0 | |
| 223456 | 33.96 | 33.96 | 0 | 34.1 | 34.1 | 0 | 34.2 | 34.2 | 0 | 34.24 | 34.24 | 0 | 34.45 | 34.45 | 0 | |
| 223468 | 50 | 50 | 0 | 50 | 50 | 0 | 50 | 50 | 0 | 50 | 50 | 0 | 50 | 50 | 0 | |
| 223478 | 53.9 | 53.9 | 0 | 53.9 | 53.9 | 0 | 53.9 | 53.9 | 0 | 53.9 | 53.9 | 0 | 53.9 | 53.9 | 0 | |
| 223488 | 53.02 | 53.02 | 0 | 53.02 | 53.02 | 0 | 53.02 | 53.02 | 0 | 53.02 | 53.02 | 0 | 53.02 | 53.02 | 0 | |
| 223526 | 35.15 | 35.15 | 0 | 35.24 | 35.24 | 0 | 35.3 | 35.3 | 0 | 35.36 | 35.36 | 0 | 35.54 | 35.54 | 0 | |
| 223536 | 55.33 | 55.33 | 0 | 55.33 | 55.33 | 0 | 55.33 | 55.33 | 0 | 55.33 | 55.33 | 0 | 55.33 | 55.33 | 0 | |
| 223548 | 70.09 | 70.09 | 0 | 70.09 | 70.09 | 0 | 70.09 | 70.09 | 0 | 70.09 | 70.09 | 0 | 70.09 | 70.09 | 0 | |
| 223558 | 72.9 | 72.9 | 0 | 72.9 | 72.9 | 0 | 72.9 | 72.9 | 0 | 72.9 | 72.9 | 0 | 72.9 | 72.9 | 0 | |
| 230000 | 1.62 | 1.62 | 0 | 1.62 | 1.62 | 0 | 1.62 | 1.62 | 0 | 1.62 | 1.62 | 0 | 1.62 | 1.62 | 0 | |
| 240000 | 1.62 | 1.62 | 0 | 1.62 | 1.62 | 0 | 1.62 | 1.62 | 0 | 1.62 | 1.62 | 0 | 1.62 | 1.62 | 0 | |
| 250000 | 1.62 | 1.62 | 0 | 1.62 | 1.62 | 0 | 1.62 | 1.62 | 0 | 1.62 | 1.62 | 0 | 1.62 | 1.62 | 0 | |
| 250195 | 15 | 15 | 0 | 15 | 15 | 0 | 15 | 15 | 0 | 15 | 15 | 0 | 15 | 15 | 0 | |
| 250435 | 9.5 | 9.5 | 0 | 9.5 | 9.5 | 0 | 9.5 | 9.5 | 0 | 9.5 | 9.5 | 0 | 9.5 | 9.5 | 0 | |
| 260000 | 1.62 | 1.62 | 0 | 1.62 | 1.62 | 0 | 1.62 | 1.62 | 0 | 1.62 | 1.62 | 0 | 1.62 | 1.62 | 0 | |
| 262360 | 40 | 40 | 0 | 40 | 40 | 0 | 40 | 40 | 0 | 40 | 40 | 0 | 40 | 40 | 0 | |
| 266278 | 31.81 | 31.81 | 0 | 31.81 | 31.81 | 0 | 31.81 | 31.81 | 0 | 31.81 | 31.81 | 0 | 31.81 | 31.81 | 0 | |
| 266800 | 1.62 | 1.62 | 0 | 1.62 | 1.62 | 0 | 1.62 | 1.62 | 0 | 1.62 | 1.62 | 0 | 1.62 | 1.62 | 0 | |
| 270000 | 1.62 | 1.62 | 0 | 1.74 | 1.74 | 0 | 1.82 | 1.82 | 0 | 1.85 | 1.85 | 0 | 2.01 | 2.01 | 0 | |
| 280000 | 1.62 | 1.62 | 0 | 1.62 | 1.62 | 0 | 1.62 | 1.62 | 0 | 1.62 | 1.62 | 0 | 1.62 | 1.62 | 0 | |
| 280448 | 22 | 22 | 0 | 22 | 22 | 0 | 22 | 22 | 0 | 22 | 22 | 0 | 22 | 22 | 0 | |
| 280465 | 22 | 22 | 0 | 22 | 22 | 0 | 22 | 22 | 0 | 22 | 22 | 0 | 22 | 22 | 0 | |
| 280623 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 200010 | 3.23 | 3.23 | 0 | 4.86 | 4.87 | 0.01 | 5.16 | 5.16 | 0 | 5.29 | 5.29 | 0 | 5.89 | 5.88 | -0.01 | |
| 200020 | 3.43 | 3.43 | 0 | 5.66 | 5.67 | 0.01 | 5.88 | 5.88 | 0 | 5.96 | 5.96 | 0 | 6.33 | 6.33 | 0 | |
| 200030 | 3.62 | 3.62 | 0 | 5.8 | 5.81 | 0.01 | 6.02 | 6.02 | 0 | 6.11 | 6.11 | 0 | 6.5 | 6.5 | 0 | |
| 200040 | 3.66 | 3.66 | 0 | 5.98 | 5.99 | 0.01 | 6.22 | 6.22 | 0 | 6.31 | 6.31 | 0 | 6.75 | 6.74 | -0.01 | |
| 200050 | 3.67 | 3.67 | 0 | 5.98 | 5.99 | 0.01 | 6.22 | 6.23 | 0.01 | 6.32 | 6.32 | 0 | 6.76 | 6.75 | -0.01 | |
| 200060 | 4.22 | 4.22 | 0 | 6.49 | 6.5 | 0.01 | 6.9 | 6.9 | 0 | 7.08 | 7.08 | 0 | 7.95 | 7.94 | -0.01 | |
| 200070 | 4.4 | 4.4 | 0 | 6.5 | 6.51 | 0.01 | 6.91 | 6.91 | 0 | 7.09 | 7.09 | 0 | 7.95 | 7.95 | 0 | |
| 200080 | 4.46 | 4.47 | 0.01 | 6.75 | 6.76 | 0.01 | 7.3 | 7.31 | 0.01 | 7.58 | 7.58 | 0 | 9.05 | 9.05 | 0 | |
| 200090 | 5.13 | 5.13 | 0 | 6.84 | 6.85 | 0.01 | 7.38 | 7.38 | 0 | 7.65 | 7.65 | 0 | 9.07 | 9.07 | 0 | |
| 200100 | 5.89 | 5.89 | 0 | 6.99 | 7 | 0.01 | 7.51 | 7.51 | 0 | 7.76 | 7.76 | 0 | 9.12 | 9.12 | 0 | |
| 200110 | 6.66 | 6.66 | 0 | 7.57 | 7.58 | 0.01 | 8.05 | 8.05 | 0 | 8.26 | 8.26 | 0 | 9.3 | 9.3 | 0 | |
| 200120 | 6.77 | 6.77 | 0 | 7.66 | 7.66 | 0 | 8.14 | 8.14 | 0 | 8.35 | 8.35 | 0 | 9.34 | 9.34 | 0 | |
| 200130 | 8.38 | 8.38 | 0 | 9.37 | 9.37 | 0 | 9.69 | 9.69 | 0 | 9.82 | 9.82 | 0 | 10.31 | 10.31 | 0 | |
| 200140 | 8.74 | 8.74 | 0 | 9.6 | 9.6 | 0 | 9.94 | 9.94 | 0 | 10.09 | 10.09 | 0 | 10.63 | 10.63 | 0 | |
| 200150 | 9.27 | 9.27 | 0 | 9.87 | 9.87 | 0 | 10.18 | 10.18 | 0 | 10.32 | 10.32 | 0 | 10.89 | 10.89 | 0 | |
| 200160 | 10.1 | 10.1 | 0 | 10.75 | 10.75 | 0 | 11.09 | 11.09 | 0 | 11.25 | 11.25 | 0 | 11.95 | 11.95 | 0 | |
| 200170 | 10.68 | 10.68 | 0 | 12.07 | 12.07 | 0 | 12.31 | 12.31 | 0 | 12.41 | 12.41 | 0 | 12.92 | 12.92 | 0 | |
| 200180 | 10.84 | 10.84 | 0 | 12.15 | 12.15 | 0 | 12.39 | 12.39 | 0 | 12.49 | 12.49 | 0 | 13.01 | 13.01 | 0 | |
| 200200 | 3.67 | 3.67 | 0 | 5.98 | 5.99 | 0.01 | 6.23 | 6.23 | 0 | 6.32 | 6.32 | 0 | 6.76 | 6.75 | -0.01 | |
| 200210 | 3.67 | 3.67 | 0 | 6.06 | 6.07 | 0.01 | 6.3 | 6.3 | 0 | 6.39 | 6.39 | 0 | 6.8 | 6.79 | -0.01 | |
| 200220 | 3.67 | 3.67 | 0 | 6.08 | 6.09 | 0.01 | 6.34 | 6.34 | 0 | 6.44 | 6.44 | 0 | 6.88 | 6.86 | -0.02 | |
| 200230 | 3.86 | 3.81 | -0.05 | 6.54 | 6.56 | 0.02 | 6.92 | 6.92 | 0 | 7.07 | 7.07 | 0 | 7.75 | 7.71 | -0.04 | |
| 200240 | 6.53 | 6.53 | 0 | 6.78 | 6.77 | -0.01 | 7.05 | 7.06 | 0.01 | 7.3 | 7.3 | 0 | 8.49 | 8.46 | -0.03 | |
| 200250 | 8.61 | 8.61 | 0 | 8.93 | 8.93 | 0 | 9.07 | 9.07 | 0 | 9.14 | 9.14 | 0 | 9.52 | 9.52 | 0 | |
| 200260 | 4.07 | 4 | -0.07 | 6.49 | 6.52 | 0.03 | 6.96 | 6.96 | 0 | 7.12 | 7.12 | 0 | 7.82 | 7.78 | -0.04 | |
| 200270 | 4.82 | 4.82 | 0 | 6.49 | 6.52 | 0.03 | 6.96 | 6.96 | 0 | 7.12 | 7.12 | 0 | 7.82 | 7.78 | -0.04 | |
| 200280 | 3.89 | 3.84 | -0.05 | 6.58 | 6.6 | 0.02 | 6.96 | 6.96 | 0 | 7.12 | 7.12 | 0 | 7.82 | 7.78 | -0.04 | |
| 200300 | 3.67 | 3.67 | 0 | 5.98 | 5.99 | 0.01 | 6.22 | 6.23 | 0.01 | 6.32 | 6.32 | 0 | 6.76 | 6.75 | -0.01 | |
| 200310 | 3.67 | 3.67 | 0 | 5.99 | 5.99 | 0 | 6.23 | 6.23 | 0 | 6.33 | 6.33 | 0 | 6.79 | 6.78 | -0.01 | |
| 200320 | 3.67 | 3.67 | 0 | 6.48 | 6.49 | 0.01 | 6.89 | 6.89 | 0 | 7.06 | 7.06 | 0 | 7.92 | 7.92 | 0 | |
| 200330 | 6.78 | 6.83 | 0.05 | 8.1 | 8.11 | 0.01 | 8.3 | 8.3 | 0 | 8.37 | 8.38 | 0.01 | 9.19 | 9.19 | 0 | Within Channel Banks |
| 200400 | 4.47 | 4.48 | 0.01 | 6.83 | 6.84 | 0.01 | 7.34 | 7.34 | 0 | 7.6 | 7.61 | 0.01 | 9.05 | 9.05 | 0 | |
| 200410 | 5.32 | 5.32 | 0 | 6.87 | 6.88 | 0.01 | 7.35 | 7.35 | 0 | 7.61 | 7.61 | 0 | 9.05 | 9.05 | 0 | |
| 200420 | 5.32 | 5.32 | 0 | 6.95 | 6.95 | 0 | 7.48 | 7.48 | 0 | 7.74 | 7.74 | 0 | 9.08 | 9.08 | 0 | |
| 200430 | 5.36 | 5.36 | 0 | 7.05 | 7.06 | 0.01 | 7.57 | 7.57 | 0 | 7.8 | 7.8 | 0 | 9.08 | 9.08 | 0 | |
| 200440 | 5.4 | 5.4 | 0 | 7.41 | 7.41 | 0 | 7.98 | 7.98 | 0 | 8.25 | 8.25 | 0 | 9.24 | 9.24 | 0 | |
| 200450 | 5.72 | 5.72 | 0 | 7.52 | 7.52 | 0 | 8.02 | 8.02 | 0 | 8.27 | 8.27 | 0 | 9.24 | 9.24 | 0 | |
| 200460 | 5.72 | 5.72 | 0 | 7.58 | 7.58 | 0 | 8.17 | 8.17 | 0 | 8.44 | 8.44 | 0 | 9.31 | 9.31 | 0 | |
| 200470 | 5.82 | 5.82 | 0 | 7.69 | 7.69 | 0 | 8.26 | 8.26 | 0 | 8.51 | 8.51 | 0 | 9.32 | | | |

Summary of Corrected and Revised Stages for Bridge

| Node | 2.33YR24HR | | | 25YR24HR | | | 50YR24HR | | | 100YR24HR | | | 500YR24HR | | | Notes |
|--------|--------------------------------|---------------------|-----------------|--------------------------------|---------------------|-----------------|--------------------------------|---------------------|-----------------|--------------------------------|---------------------|-----------------|--------------------------------|---------------------|-----------------|----------------------|
| | Corrected Effective Stage (ft) | Proposed Stage (ft) | Difference (ft) | Corrected Effective Stage (ft) | Proposed Stage (ft) | Difference (ft) | Corrected Effective Stage (ft) | Proposed Stage (ft) | Difference (ft) | Corrected Effective Stage (ft) | Proposed Stage (ft) | Difference (ft) | Corrected Effective Stage (ft) | Proposed Stage (ft) | Difference (ft) | |
| 200610 | 6.71 | 6.71 | 0 | 7.73 | 7.73 | 0 | 8.33 | 8.33 | 0 | 8.59 | 8.59 | 0 | 9.36 | 9.36 | 0 | |
| 200620 | 6.72 | 6.72 | 0 | 7.76 | 7.76 | 0 | 8.38 | 8.38 | 0 | 8.66 | 8.66 | 0 | 9.52 | 9.52 | 0 | |
| 200630 | 6.72 | 6.72 | 0 | 7.84 | 7.84 | 0 | 8.53 | 8.53 | 0 | 8.83 | 8.83 | 0 | 9.84 | 9.84 | 0 | |
| 200640 | 7.64 | 7.64 | 0 | 8.33 | 8.33 | 0 | 8.77 | 8.77 | 0 | 8.96 | 8.96 | 0 | 9.88 | 9.88 | 0 | |
| 200650 | 7.69 | 7.69 | 0 | 8.32 | 8.32 | 0 | 8.64 | 8.64 | 0 | 8.82 | 8.82 | 0 | 9.81 | 9.81 | 0 | |
| 201010 | 1.78 | 1.78 | 0 | 2 | 2 | 0 | 2.13 | 2.13 | 0 | 2.19 | 2.19 | 0 | 2.55 | 2.55 | 0 | |
| 201020 | 1.92 | 1.92 | 0 | 2.25 | 2.25 | 0 | 2.43 | 2.43 | 0 | 2.52 | 2.52 | 0 | 2.96 | 2.96 | 0 | |
| 201030 | 2.04 | 2.04 | 0 | 2.46 | 2.46 | 0 | 2.67 | 2.67 | 0 | 2.77 | 2.77 | 0 | 3.23 | 3.23 | 0 | |
| 201040 | 2.24 | 2.24 | 0 | 2.71 | 2.71 | 0 | 2.91 | 2.91 | 0 | 3 | 3 | 0 | 3.42 | 3.42 | 0 | |
| 201050 | 2.34 | 2.34 | 0 | 2.79 | 2.79 | 0 | 2.97 | 2.97 | 0 | 3.06 | 3.06 | 0 | 3.46 | 3.46 | 0 | |
| 201060 | 3.2 | 3.2 | 0 | 3.77 | 3.77 | 0 | 3.93 | 3.93 | 0 | 4 | 4 | 0 | 4.27 | 4.27 | 0 | |
| 201070 | 3.52 | 3.52 | 0 | 4.42 | 4.42 | 0 | 4.75 | 4.75 | 0 | 4.89 | 4.89 | 0 | 5.54 | 5.54 | 0 | |
| 201080 | 3.89 | 3.89 | 0 | 4.69 | 4.69 | 0 | 5 | 5 | 0 | 5.14 | 5.14 | 0 | 5.72 | 5.72 | 0 | |
| 201090 | 3.95 | 3.95 | 0 | 4.71 | 4.71 | 0 | 5.01 | 5.01 | 0 | 5.15 | 5.15 | 0 | 5.73 | 5.73 | 0 | |
| 201100 | 4.37 | 4.37 | 0 | 5.15 | 5.15 | 0 | 5.48 | 5.48 | 0 | 5.7 | 5.7 | 0 | 6.64 | 6.64 | 0 | |
| 201110 | 4.69 | 4.69 | 0 | 5.64 | 5.64 | 0 | 6.12 | 6.12 | 0 | 6.38 | 6.38 | 0 | 7.7 | 7.7 | 0 | |
| 201120 | 5.42 | 5.42 | 0 | 6.01 | 6.01 | 0 | 6.24 | 6.24 | 0 | 6.51 | 6.51 | 0 | 7.84 | 7.84 | 0 | |
| 201130 | 5.43 | 5.43 | 0 | 6.05 | 6.05 | 0 | 6.4 | 6.4 | 0 | 6.7 | 6.7 | 0 | 8.05 | 8.05 | 0 | |
| 201140 | 5.99 | 5.99 | 0 | 6.52 | 6.52 | 0 | 7.06 | 7.06 | 0 | 7.42 | 7.42 | 0 | 8.72 | 8.72 | 0 | |
| 201150 | 6 | 6 | 0 | 6.91 | 6.91 | 0 | 7.46 | 7.46 | 0 | 7.9 | 7.91 | 0.01 | 9.23 | 9.23 | 0 | |
| 201160 | 6.48 | 6.48 | 0 | 7.46 | 7.46 | 0 | 8.04 | 8.04 | 0 | 8.49 | 8.49 | 0 | 9.54 | 9.54 | 0 | |
| 201170 | 7.49 | 7.49 | 0 | 7.97 | 7.97 | 0 | 8.35 | 8.35 | 0 | 8.63 | 8.63 | 0 | 9.55 | 9.55 | 0 | |
| 201180 | 7.5 | 7.5 | 0 | 7.99 | 7.99 | 0 | 8.38 | 8.38 | 0 | 8.67 | 8.67 | 0 | 9.76 | 9.76 | 0 | |
| 201190 | 7.9 | 7.9 | 0 | 8.32 | 8.32 | 0 | 8.62 | 8.62 | 0 | 8.8 | 8.8 | 0 | 9.81 | 9.81 | 0 | |
| 201200 | 1.96 | 1.96 | 0 | 2.31 | 2.31 | 0 | 2.5 | 2.5 | 0 | 2.59 | 2.59 | 0 | 3.04 | 3.04 | 0 | |
| 201210 | 1.97 | 1.97 | 0 | 2.34 | 2.34 | 0 | 2.53 | 2.53 | 0 | 2.62 | 2.62 | 0 | 3.06 | 3.06 | 0 | |
| 201220 | 2.18 | 2.18 | 0 | 2.62 | 2.62 | 0 | 2.81 | 2.81 | 0 | 2.89 | 2.89 | 0 | 3.28 | 3.28 | 0 | |
| 201230 | 2.77 | 2.77 | 0 | 3.43 | 3.43 | 0 | 3.69 | 3.69 | 0 | 3.8 | 3.8 | 0 | 4.39 | 4.39 | 0 | |
| 201240 | 2.87 | 2.87 | 0 | 3.58 | 3.58 | 0 | 3.82 | 3.82 | 0 | 4.05 | 4.07 | 0.02 | 6.02 | 6 | -0.02 | |
| 201250 | 2.88 | 2.88 | 0 | 3.59 | 3.59 | 0 | 3.83 | 3.83 | 0 | 4.12 | 4.14 | 0.02 | 6.31 | 6.29 | -0.02 | |
| 201260 | 3.36 | 3.36 | 0 | 4.24 | 4.24 | 0 | 5.03 | 5.04 | 0.01 | 5.36 | 5.36 | 0 | 6.32 | 6.3 | -0.02 | |
| 201270 | 4.31 | 4.31 | 0 | 4.62 | 4.62 | 0 | 5.14 | 5.15 | 0.01 | 5.39 | 5.39 | 0 | 6.32 | 6.3 | -0.02 | |
| 201280 | 4.03 | 4.03 | 0 | 4.6 | 4.6 | 0 | 5.12 | 5.13 | 0.01 | 5.38 | 5.38 | 0 | 6.32 | 6.3 | -0.02 | |
| 201290 | 4.09 | 4.09 | 0 | 4.61 | 4.61 | 0 | 5.14 | 5.15 | 0.01 | 5.39 | 5.39 | 0 | 6.33 | 6.31 | -0.02 | |
| 201300 | 2.9 | 2.9 | 0 | 3.61 | 3.61 | 0 | 3.84 | 3.84 | 0 | 3.94 | 3.94 | 0 | 4.41 | 4.4 | -0.01 | |
| 201310 | 3.04 | 3.04 | 0 | 3.69 | 3.69 | 0 | 3.87 | 3.87 | 0 | 3.95 | 3.95 | 0 | 4.4 | 4.4 | 0 | |
| 201400 | 2.04 | 2.04 | 0 | 2.46 | 2.46 | 0 | 2.67 | 2.67 | 0 | 2.77 | 2.77 | 0 | 3.23 | 3.23 | 0 | |
| 201410 | 2.14 | 2.14 | 0 | 2.57 | 2.57 | 0 | 2.78 | 2.78 | 0 | 2.87 | 2.87 | 0 | 3.32 | 3.32 | 0 | |
| 201420 | 3.23 | 3.23 | 0 | 4 | 4 | 0 | 4.3 | 4.3 | 0 | 4.43 | 4.43 | 0 | 5.02 | 5.02 | 0 | |
| 201430 | 4.37 | 4.37 | 0 | 5.15 | 5.15 | 0 | 5.48 | 5.48 | 0 | 5.7 | 5.7 | 0 | 6.48 | 6.48 | 0 | |
| 201440 | 5.68 | 5.68 | 0 | 6.04 | 6.04 | 0 | 6.21 | 6.21 | 0 | 6.27 | 6.27 | 0 | 6.51 | 6.51 | 0 | |
| 201450 | 4.69 | 4.69 | 0 | 5.64 | 5.64 | 0 | 6.12 | 6.12 | 0 | 6.38 | 6.38 | 0 | 7.7 | 7.7 | 0 | |
| 201460 | 4.7 | 4.7 | 0 | 5.86 | 5.86 | 0 | 7.19 | 7.19 | 0 | 7.59 | 7.59 | 0 | 9.05 | 9.05 | 0 | |
| 201470 | 3.19 | 3.19 | 0 | 5.64 | 5.64 | 0 | 6.12 | 6.12 | 0 | 6.38 | 6.38 | 0 | 7.7 | 7.7 | 0 | |
| 201480 | 4.05 | 4.05 | 0 | 5.64 | 5.64 | 0 | 6.12 | 6.12 | 0 | 6.38 | 6.38 | 0 | 7.7 | 7.7 | 0 | |
| 201490 | 4.7 | 4.7 | 0 | 5.64 | 5.64 | 0 | 6.12 | 6.12 | 0 | 6.38 | 6.38 | 0 | 7.7 | 7.7 | 0 | |
| 201500 | 6.08 | 6.08 | 0 | 6.31 | 6.31 | 0 | 6.43 | 6.43 | 0 | 6.49 | 6.49 | 0 | 7.81 | 7.81 | 0 | |
| 201510 | 3.43 | 3.43 | 0 | 4.23 | 4.23 | 0 | 6.12 | 6.12 | 0 | 6.38 | 6.38 | 0 | 7.7 | 7.7 | 0 | |
| 201600 | 5.66 | 5.66 | 0 | 6.34 | 6.34 | 0 | 6.52 | 6.52 | 0 | 6.6 | 6.6 | 0 | 7.84 | 7.84 | 0 | |
| 201610 | 5.8 | 5.8 | 0 | 6.37 | 6.37 | 0 | 6.54 | 6.54 | 0 | 6.61 | 6.61 | 0 | 7.84 | 7.84 | 0 | |
| 201620 | 6.32 | 6.32 | 0 | 6.59 | 6.59 | 0 | 6.75 | 6.75 | 0 | 6.83 | 6.83 | 0 | 7.84 | 7.84 | 0 | |
| 201630 | 5.42 | 5.42 | 0 | 6.02 | 6.02 | 0 | 6.24 | 6.24 | 0 | 6.51 | 6.51 | 0 | 7.84 | 7.84 | 0 | |
| 201640 | 6.39 | 6.39 | 0 | 6.68 | 6.68 | 0 | 6.83 | 6.83 | 0 | 6.91 | 6.91 | 0 | 7.84 | 7.84 | 0 | |
| 201650 | 6.39 | 6.39 | 0 | 6.68 | 6.68 | 0 | 6.83 | 6.83 | 0 | 6.91 | 6.91 | 0 | 7.84 | 7.84 | 0 | |
| 201660 | 6.15 | 6.15 | 0 | 7.05 | 7.05 | 0 | 7.5 | 7.5 | 0 | 7.93 | 7.93 | 0 | 9.76 | 9.76 | 0 | |
| 201670 | 6.59 | 6.59 | 0 | 7.09 | 7.09 | 0 | 7.5 | 7.5 | 0 | 7.93 | 7.93 | 0 | 9.76 | 9.76 | 0 | |
| 201700 | 8.98 | 8.98 | 0 | 9.37 | 9.37 | 0 | 9.68 | 9.68 | 0 | 9.81 | 9.81 | 0 | 10.3 | 10.3 | 0 | |
| 201710 | 9 | 9 | 0 | 9.37 | 9.37 | 0 | 9.51 | 9.51 | 0 | 9.59 | 9.59 | 0 | 9.93 | 9.93 | 0 | |
| 201720 | 9.57 | 9.57 | 0 | 10.06 | 10.06 | 0 | 10.48 | 10.48 | 0 | 10.7 | 10.7 | 0 | 11.43 | 11.43 | 0 | |
| 201730 | 9.57 | 9.57 | 0 | 10.06 | 10.06 | 0 | 10.48 | 10.48 | 0 | 10.7 | 10.7 | 0 | 11.43 | 11.43 | 0 | |
| 201740 | 9.57 | 9.57 | 0 | 9.96 | 9.96 | 0 | 10.22 | 10.22 | 0 | 10.34 | 10.34 | 0 | 10.8 | 10.8 | 0 | |
| 201750 | 9.57 | 9.57 | 0 | 9.96 | 9.96 | 0 | 10.22 | 10.22 | 0 | 10.33 | 10.34 | 0.01 | 10.78 | 10.78 | 0 | |
| 201760 | 10.11 | 10.11 | 0 | 10.78 | 10.78 | 0 | 11.12 | 11.12 | 0 | 11.28 | 11.28 | 0 | 12.02 | 12.02 | 0 | |
| 201770 | 10.13 | 10.13 | 0 | 10.83 | 10.83 | 0 | 11.18 | 11.18 | 0 | 11.34 | 11.34 | 0 | 12.02 | 12.02 | 0 | |
| 201780 | 10.1 | 10.1 | 0 | 10.72 | 10.72 | 0 | 11.07 | 11.07 | 0 | 11.23 | 11.23 | 0 | 11.94 | 11.94 | 0 | |
| 201900 | 9.57 | 9.57 | 0 | 10.06 | 10.06 | 0 | 10.48 | 10.48 | 0 | 10.7 | 10.7 | 0 | 11.43 | 11.43 | 0 | |
| 201910 | 9.59 | 9.59 | 0 | 10.09 | 10.09 | 0 | 10.53 | 10.53 | 0 | 10.75 | 10.75 | 0 | 11.47 | 11.48 | 0.01 | |
| 201920 | 10.17 | 10.17 | 0 | 10.8 | 10.8 | 0 | 10.98 | 10.98 | 0 | 11.05 | 11.05 | 0 | 11.51 | 11.51 | 0 | |
| 201930 | 11.34 | 11.34 | 0 | 12.36 | 12.36 | 0 | 12.51 | 12.51 | 0 | 12.57 | 12.57 | 0 | 12.82 | 12.82 | 0 | |
| 201940 | 11.92 | 11.92 | 0 | 12.47 | 12.47 | 0 | 12.59 | 12.59 | 0 | 12.64 | 12.64 | 0 | 12.86 | 12.86 | 0 | |
| 201950 | 10.93 | 10.93 | 0 | 11.38 | 11.38 | 0 | 11.65 | 11.65 | 0 | 11.79 | 11.79 | 0 | 12.36 | 12.36 | 0 | |
| 201952 | 12.48 | 12.48 | 0 | 12.88 | 12.88 | 0 | 12.99 | 12.99 | 0 | 13 | 13 | 0 | 13.07 | 13.07 | 0 | |
| 201954 | 13.7 | 13.7 | 0 | 13.92 | 13.92 | 0 | 14.01 | 14.01 | 0 | 14.06 | 14.06 | 0 | 14.39 | 14.39 | 0 | |
| 201960 | 12.49 | 12.49 | 0 | 12.9 | 12.9 | 0 | 13.08 | 13.08 | 0 | 13.13 | 13.13 | 0 | 13.31 | 13.31 | 0 | |
| 201970 | 12.49 | 12.49 | 0 | 12.91 | 12.91 | 0 | 13.1 | 13.1 | 0 | 13.15 | 13.15 | 0 | 13.34 | 13.34 | 0 | |
| 201980 | 12.58 | 12.58 | 0 | 13.05 | 13.05 | 0 | 13.23 | 13.23 | 0 | 13.3 | 13.3 | 0 | 13.64 | 13.64 | 0 | |
| 202010 | 4.13 | 4.13 | 0 | 4.79 | 4.79 | 0 | 5.07 | 5.07 | 0 | 5.17 | 5.17 | 0 | 5.61 | 5.61 | 0 | |
| 202110 | 2 | 2 | 0 | 2.4 | 2.4 | 0 | 2.6 | 2.6 | 0 | 2.69 | 2.69 | 0 | 3.15 | 3.15 | 0 | |
| 210010 | 2.49 | 2.49 | 0 | 3.17 | 3.18 | 0.01 | 3.43 | 3.45 | 0.02 | 3.54 | 3.56 | 0.02 | 4.02 | 4.08 | 0.06 | |
| 210020 | 2.92 | 2.92 | 0 | 3.75 | 3.76 | 0.01 | 4.06 | 4.07 | 0.01 | 4.19 | 4.21 | 0.02 | 4.72 | 4.77 | 0.05 | |
| 210028 | 4.67 | 4.66 | -0.01 | 5.62 | 5.63 | 0.01 | 5.96 | 5.98 | 0.02 | 6.1 | 6.13 | 0.03 | 6.7 | 6.77 | 0.07 | |
| 210030 | 4.73 | 4.72 | -0.01 | 5.73 | 5.74 | 0.01 | 6.1 | 6.13 | 0.03 | 6.26 | 6.3 | 0.04 | 6.92 | 7 | 0.08 | |
| 210040 | 5.84 | 5.69 | -0.15 | 7.06 | 6.93 | -0.13 | 7.46 | 7.36 | -0.1 | 7.63 | 7.55 | -0.08 | 8.35 | 8.36 | 0.01 | |
| 210050 | 6 | 6.08 | 0.08 | 7.4 | 7.43 | 0.03 | 7.87 | 7.88 | 0.01 | 8.09 | 8.08 | -0.01 | 8.98 | 8.89 | -0.09 | Within Channel Banks |
| 210060 | 6.72 | 6.77 | 0.05 | 8.48 | 8.49 | 0.01 | 9.04 | 9.04 | 0 | 9.28 | 9. | | | | | |

Summary of Corrected and Revised Stages for Bridge

| Node | 2.33YR24HR | | | 25YR24HR | | | 50YR24HR | | | 100YR24HR | | | 500YR24HR | | | Notes |
|--------|--------------------------------|---------------------|-----------------|--------------------------------|---------------------|-----------------|--------------------------------|---------------------|-----------------|--------------------------------|---------------------|-----------------|--------------------------------|---------------------|-----------------|----------------------|
| | Corrected Effective Stage (ft) | Proposed Stage (ft) | Difference (ft) | Corrected Effective Stage (ft) | Proposed Stage (ft) | Difference (ft) | Corrected Effective Stage (ft) | Proposed Stage (ft) | Difference (ft) | Corrected Effective Stage (ft) | Proposed Stage (ft) | Difference (ft) | Corrected Effective Stage (ft) | Proposed Stage (ft) | Difference (ft) | |
| 210090 | 6.95 | 7 | 0.05 | 8.98 | 8.99 | 0.01 | 9.6 | 9.6 | 0 | 9.86 | 9.86 | 0 | 10.85 | 10.82 | -0.03 | Within Channel Banks |
| 210100 | 7.28 | 7.32 | 0.04 | 9.33 | 9.34 | 0.01 | 9.94 | 9.94 | 0 | 10.2 | 10.2 | 0 | 11.19 | 11.17 | -0.02 | |
| 210110 | 7.35 | 7.39 | 0.04 | 9.52 | 9.53 | 0.01 | 10.15 | 10.16 | 0.01 | 10.42 | 10.42 | 0 | 11.47 | 11.46 | -0.01 | |
| 210120 | 7.96 | 7.98 | 0.02 | 10.08 | 10.08 | 0 | 10.7 | 10.71 | 0.01 | 10.96 | 10.97 | 0.01 | 12.03 | 12.02 | -0.01 | |
| 210130 | 8.05 | 8.07 | 0.02 | 10.17 | 10.18 | 0.01 | 10.8 | 10.8 | 0 | 11.05 | 11.06 | 0.01 | 12.12 | 12.11 | -0.01 | |
| 210140 | 8.23 | 8.25 | 0.02 | 10.38 | 10.38 | 0 | 11 | 11 | 0 | 11.25 | 11.26 | 0.01 | 12.31 | 12.31 | 0 | |
| 210150 | 8.46 | 8.47 | 0.01 | 10.82 | 10.83 | 0.01 | 11.48 | 11.48 | 0 | 11.73 | 11.73 | 0 | 12.73 | 12.73 | 0 | |
| 210160 | 9.1 | 9.11 | 0.01 | 11.38 | 11.38 | 0 | 12.03 | 12.03 | 0 | 12.26 | 12.26 | 0 | 13.15 | 13.15 | 0 | |
| 210170 | 10.2 | 10.2 | 0 | 12.19 | 12.19 | 0 | 12.81 | 12.81 | 0 | 13.03 | 13.04 | 0.01 | 13.83 | 13.83 | 0 | |
| 210180 | 11.02 | 11.02 | 0 | 13.46 | 13.46 | 0 | 14.34 | 14.34 | 0 | 14.66 | 14.66 | 0 | 15.88 | 15.88 | 0 | |
| 210185 | 11.87 | 11.87 | 0 | 13.98 | 13.98 | 0 | 14.78 | 14.78 | 0 | 15.07 | 15.07 | 0 | 16.2 | 16.2 | 0 | |
| 210190 | 12.96 | 12.96 | 0 | 14.76 | 14.76 | 0 | 15.43 | 15.43 | 0 | 15.68 | 15.68 | 0 | 16.67 | 16.67 | 0 | |
| 210200 | 13.08 | 13.08 | 0 | 14.95 | 14.95 | 0 | 15.69 | 15.69 | 0 | 15.97 | 15.97 | 0 | 17.11 | 17.11 | 0 | |
| 210210 | 14.25 | 14.25 | 0 | 16.21 | 16.21 | 0 | 16.87 | 16.87 | 0 | 17.13 | 17.13 | 0 | 18.15 | 18.15 | 0 | |
| 210220 | 14.46 | 14.46 | 0 | 16.71 | 16.71 | 0 | 17.58 | 17.58 | 0 | 17.94 | 17.94 | 0 | 19.4 | 19.4 | 0 | |
| 210230 | 15.59 | 15.59 | 0 | 17.66 | 17.66 | 0 | 18.38 | 18.38 | 0 | 18.68 | 18.68 | 0 | 19.95 | 19.95 | 0 | |
| 210240 | 16.22 | 16.22 | 0 | 18.36 | 18.36 | 0 | 19.05 | 19.05 | 0 | 19.32 | 19.32 | 0 | 20.48 | 20.48 | 0 | |
| 210250 | 17.41 | 17.41 | 0 | 19.52 | 19.52 | 0 | 20.15 | 20.15 | 0 | 20.4 | 20.4 | 0 | 21.45 | 21.45 | 0 | |
| 210260 | 18.25 | 18.25 | 0 | 20.39 | 20.39 | 0 | 21.04 | 21.04 | 0 | 21.3 | 21.3 | 0 | 22.46 | 22.46 | 0 | |
| 210270 | 18.27 | 18.27 | 0 | 20.42 | 20.42 | 0 | 21.07 | 21.07 | 0 | 21.34 | 21.34 | 0 | 22.5 | 22.5 | 0 | |
| 210280 | 19.54 | 19.54 | 0 | 21.61 | 21.61 | 0 | 22.28 | 22.28 | 0 | 22.58 | 22.58 | 0 | 23.93 | 23.93 | 0 | |
| 210290 | 19.71 | 19.71 | 0 | 21.74 | 21.74 | 0 | 22.43 | 22.43 | 0 | 22.74 | 22.74 | 0 | 24.13 | 24.13 | 0 | |
| 210300 | 20.06 | 20.06 | 0 | 21.96 | 21.96 | 0 | 22.67 | 22.67 | 0 | 22.99 | 22.99 | 0 | 24.42 | 24.42 | 0 | |
| 210310 | 21.05 | 21.05 | 0 | 22.65 | 22.65 | 0 | 23.42 | 23.42 | 0 | 23.76 | 23.76 | 0 | 25.21 | 25.21 | 0 | |
| 210320 | 21.08 | 21.08 | 0 | 22.69 | 22.69 | 0 | 23.46 | 23.46 | 0 | 23.81 | 23.81 | 0 | 25.31 | 25.31 | 0 | |
| 210330 | 21.46 | 21.46 | 0 | 22.92 | 22.92 | 0 | 23.63 | 23.63 | 0 | 23.95 | 23.95 | 0 | 25.41 | 25.41 | 0 | |
| 210340 | 23.14 | 23.14 | 0 | 24.31 | 24.31 | 0 | 24.87 | 24.87 | 0 | 25.15 | 25.15 | 0 | 26.38 | 26.38 | 0 | |
| 210350 | 23.8 | 23.8 | 0 | 25.12 | 25.12 | 0 | 25.73 | 25.73 | 0 | 26 | 26 | 0 | 27.15 | 27.15 | 0 | |
| 210360 | 24.89 | 24.89 | 0 | 26.25 | 26.25 | 0 | 26.81 | 26.81 | 0 | 27.09 | 27.09 | 0 | 28.27 | 28.27 | 0 | |
| 210370 | 25.03 | 25.03 | 0 | 26.43 | 26.43 | 0 | 27.01 | 27.01 | 0 | 27.3 | 27.3 | 0 | 28.48 | 28.48 | 0 | |
| 210380 | 25.03 | 25.03 | 0 | 26.43 | 26.43 | 0 | 27.03 | 27.03 | 0 | 27.31 | 27.31 | 0 | 28.51 | 28.51 | 0 | |
| 210390 | 25.12 | 25.12 | 0 | 26.58 | 26.58 | 0 | 27.19 | 27.19 | 0 | 27.49 | 27.49 | 0 | 28.7 | 28.7 | 0 | |
| 210400 | 26.22 | 26.22 | 0 | 27.86 | 27.86 | 0 | 28.44 | 28.44 | 0 | 28.7 | 28.7 | 0 | 29.67 | 29.67 | 0 | |
| 210410 | 26.22 | 26.22 | 0 | 27.87 | 27.87 | 0 | 28.46 | 28.46 | 0 | 28.72 | 28.72 | 0 | 29.7 | 29.7 | 0 | |
| 210420 | 26.26 | 26.26 | 0 | 27.91 | 27.91 | 0 | 28.49 | 28.49 | 0 | 28.75 | 28.75 | 0 | 29.73 | 29.73 | 0 | |
| 210430 | 26.45 | 26.45 | 0 | 28.38 | 28.38 | 0 | 29.11 | 29.11 | 0 | 29.46 | 29.46 | 0 | 30.76 | 30.76 | 0 | |
| 210450 | 26.64 | 26.64 | 0 | 28.53 | 28.53 | 0 | 29.24 | 29.24 | 0 | 29.58 | 29.58 | 0 | 30.83 | 30.83 | 0 | |
| 210460 | 26.74 | 26.74 | 0 | 28.57 | 28.57 | 0 | 29.27 | 29.27 | 0 | 29.6 | 29.6 | 0 | 30.85 | 30.85 | 0 | |
| 210470 | 26.96 | 26.96 | 0 | 28.74 | 28.74 | 0 | 29.42 | 29.42 | 0 | 29.73 | 29.73 | 0 | 30.93 | 30.93 | 0 | |
| 210480 | 27.22 | 27.22 | 0 | 28.9 | 28.9 | 0 | 29.52 | 29.52 | 0 | 29.8 | 29.8 | 0 | 30.95 | 30.95 | 0 | |
| 210490 | 27.32 | 27.32 | 0 | 29.03 | 29.03 | 0 | 29.63 | 29.63 | 0 | 29.88 | 29.88 | 0 | 31 | 31 | 0 | |
| 210500 | 27.46 | 27.46 | 0 | 29.16 | 29.16 | 0 | 29.76 | 29.76 | 0 | 30 | 30 | 0 | 31.08 | 31.08 | 0 | |
| 210510 | 27.51 | 27.51 | 0 | 29.36 | 29.36 | 0 | 30.03 | 30.03 | 0 | 30.29 | 30.29 | 0 | 31.44 | 31.44 | 0 | |
| 210520 | 27.58 | 27.58 | 0 | 29.45 | 29.45 | 0 | 30.11 | 30.11 | 0 | 30.34 | 30.34 | 0 | 31.47 | 31.47 | 0 | |
| 210530 | 28.86 | 28.86 | 0 | 29.8 | 29.8 | 0 | 30.6 | 30.6 | 0 | 30.97 | 30.97 | 0 | 33.92 | 33.92 | 0 | |
| 210540 | 28.89 | 28.89 | 0 | 29.91 | 29.91 | 0 | 30.82 | 30.82 | 0 | 31.24 | 31.24 | 0 | 35.32 | 35.32 | 0 | |
| 210550 | 35.41 | 35.41 | 0 | 36.56 | 36.56 | 0 | 37.14 | 37.14 | 0 | 37.42 | 37.42 | 0 | 38.61 | 38.61 | 0 | |
| 210560 | 35.41 | 35.41 | 0 | 36.58 | 36.58 | 0 | 37.2 | 37.2 | 0 | 37.51 | 37.51 | 0 | 39.12 | 39.12 | 0 | |
| 210570 | 35.41 | 35.41 | 0 | 36.67 | 36.67 | 0 | 37.61 | 37.61 | 0 | 38.07 | 38.07 | 0 | 40.51 | 40.51 | 0 | |
| 210580 | 35.42 | 35.42 | 0 | 36.74 | 36.74 | 0 | 37.7 | 37.7 | 0 | 38.16 | 38.16 | 0 | 40.7 | 40.7 | 0 | |
| 210590 | 35.46 | 35.46 | 0 | 36.65 | 36.65 | 0 | 37.43 | 37.43 | 0 | 37.78 | 37.78 | 0 | 39.38 | 39.38 | 0 | |
| 210600 | 35.83 | 35.83 | 0 | 36.82 | 36.82 | 0 | 37.57 | 37.57 | 0 | 37.94 | 37.94 | 0 | 39.61 | 39.61 | 0 | |
| 210610 | 35.83 | 35.83 | 0 | 36.82 | 36.82 | 0 | 37.57 | 37.57 | 0 | 37.93 | 37.93 | 0 | 39.98 | 39.98 | 0 | |
| 210620 | 34.28 | 34.28 | 0 | 35.98 | 35.98 | 0 | 37.49 | 37.49 | 0 | 38.07 | 38.07 | 0 | 39.98 | 39.98 | 0 | |
| 210630 | 38.9 | 38.9 | 0 | 39.78 | 39.78 | 0 | 40.54 | 40.54 | 0 | 41.14 | 41.14 | 0 | 43.7 | 43.7 | 0 | |
| 210640 | 41.52 | 41.52 | 0 | 42.32 | 42.32 | 0 | 43.2 | 43.2 | 0 | 43.53 | 43.53 | 0 | 46.44 | 46.44 | 0 | |
| 210650 | 50.13 | 50.13 | 0 | 52.83 | 52.83 | 0 | 53.07 | 53.07 | 0 | 53.14 | 53.14 | 0 | 53.7 | 53.7 | 0 | |
| 210660 | 53.88 | 53.88 | 0 | 54.41 | 54.41 | 0 | 54.67 | 54.67 | 0 | 54.85 | 54.85 | 0 | 55.48 | 55.48 | 0 | |
| 210670 | 53.88 | 53.88 | 0 | 54.41 | 54.41 | 0 | 54.68 | 54.68 | 0 | 54.86 | 54.86 | 0 | 55.53 | 55.53 | 0 | |
| 210680 | 53.88 | 53.88 | 0 | 54.48 | 54.48 | 0 | 54.73 | 54.73 | 0 | 54.88 | 54.88 | 0 | 55.61 | 55.61 | 0 | |
| 210700 | 2.95 | 2.94 | -0.01 | 3.8 | 3.8 | 0 | 4.1 | 4.12 | 0.02 | 4.23 | 4.25 | 0.02 | 4.76 | 4.81 | 0.05 | |
| 210710 | 2.98 | 2.97 | -0.01 | 3.88 | 3.88 | 0 | 4.16 | 4.18 | 0.02 | 4.28 | 4.3 | 0.02 | 4.8 | 4.85 | 0.05 | |
| 210720 | 3.09 | 3.08 | -0.01 | 4.03 | 4.03 | 0 | 4.31 | 4.32 | 0.01 | 4.42 | 4.44 | 0.02 | 4.92 | 4.97 | 0.05 | |
| 210730 | 3.18 | 3.16 | -0.02 | 4.39 | 4.39 | 0 | 4.75 | 4.76 | 0.01 | 4.9 | 4.92 | 0.02 | 5.57 | 5.62 | 0.05 | |
| 210740 | 3.84 | 3.79 | -0.05 | 4.94 | 4.94 | 0 | 5.22 | 5.23 | 0.01 | 5.35 | 5.36 | 0.01 | 5.9 | 5.94 | 0.04 | |
| 210750 | 4.01 | 3.95 | -0.06 | 5.44 | 5.45 | 0.01 | 5.84 | 5.87 | 0.03 | 6.02 | 6.05 | 0.03 | 6.74 | 6.81 | 0.07 | |
| 210760 | 4.19 | 4.14 | -0.05 | 5.43 | 5.44 | 0.01 | 5.81 | 5.83 | 0.02 | 5.98 | 6.01 | 0.03 | 6.69 | 6.76 | 0.07 | |
| 210770 | 4.31 | 4.25 | -0.06 | 5.41 | 5.42 | 0.01 | 5.7 | 5.72 | 0.02 | 5.82 | 5.84 | 0.02 | 6.29 | 6.29 | 0 | |
| 210780 | 4.78 | 4.76 | -0.02 | 5.39 | 5.39 | 0 | 5.61 | 5.62 | 0.01 | 5.7 | 5.71 | 0.01 | 6.1 | 6.07 | -0.03 | |
| 210790 | 4.79 | 4.77 | -0.02 | 5.38 | 5.39 | 0.01 | 5.6 | 5.61 | 0.01 | 5.68 | 5.69 | 0.01 | 6.06 | 6.06 | 0 | |
| 210800 | 4.86 | 4.83 | -0.03 | 5.41 | 5.4 | -0.01 | 5.6 | 5.6 | 0 | 5.68 | 5.68 | 0 | 6.06 | 6.07 | 0.01 | |
| 210810 | 4.19 | 4.16 | -0.03 | 5.72 | 5.73 | 0.01 | 6.1 | 6.12 | 0.02 | 6.26 | 6.29 | 0.03 | 6.92 | 6.99 | 0.07 | |
| 210900 | 6 | 6.08 | 0.08 | 7.4 | 7.43 | 0.03 | 7.87 | 7.88 | 0.01 | 8.09 | 8.08 | -0.01 | 9.05 | 8.95 | -0.1 | Within Channel Banks |
| 210910 | 7.11 | 6.31 | -0.8 | 7.45 | 7.35 | -0.1 | 7.89 | 7.86 | -0.03 | 8.12 | 8.09 | -0.03 | 9.06 | 8.96 | -0.1 | |
| 210920 | 7.13 | 6.32 | -0.81 | 7.48 | 7.32 | -0.16 | 7.91 | 7.84 | -0.07 | 8.17 | 8.09 | -0.08 | 9.15 | 9.08 | -0.07 | |
| 210930 | 7.16 | 6.57 | -0.59 | 7.51 | 7.24 | -0.27 | 7.91 | 7.81 | -0.1 | 8.17 | 8.07 | -0.1 | 9.14 | 9.07 | -0.07 | |
| 210940 | 7.19 | 6.6 | -0.59 | 7.61 | 7.12 | -0.49 | 7.94 | 7.64 | -0.3 | 8.15 | 7.87 | -0.28 | 8.96 | 8.79 | -0.17 | |
| 210950 | 7.2 | 6.6 | -0.6 | 7.63 | 7.1 | -0.53 | 7.95 | 7.59 | -0.36 | 8.15 | 7.82 | -0.33 | 8.92 | 8.72 | -0.2 | |
| 210960 | 7.26 | 6.62 | -0.64 | 7.75 | 7.13 | -0.62 | 8.01 | 7.42 | -0.59 | 8.17 | 7.62 | -0.55 | 8.74 | 8.42 | -0.32 | |
| 210970 | 7.26 | 6.62 | -0.64 | 7.75 | 7.13 | -0.62 | 8.01 | 7.42 | -0.59 | 8.17 | 7.62 | -0.55 | 8.74 | 8.42 | -0.32 | |
| 2 | | | | | | | | | | | | | | | | |

Summary of Corrected and Revised Stages for Bridge

| Node | 2.33YR24HR | | | 25YR24HR | | | 50YR24HR | | | 100YR24HR | | | 500YR24HR | | | Notes |
|--------|--------------------------------|---------------------|-----------------|--------------------------------|---------------------|-----------------|--------------------------------|---------------------|-----------------|--------------------------------|---------------------|-----------------|--------------------------------|---------------------|-----------------|-------|
| | Corrected Effective Stage (ft) | Proposed Stage (ft) | Difference (ft) | Corrected Effective Stage (ft) | Proposed Stage (ft) | Difference (ft) | Corrected Effective Stage (ft) | Proposed Stage (ft) | Difference (ft) | Corrected Effective Stage (ft) | Proposed Stage (ft) | Difference (ft) | Corrected Effective Stage (ft) | Proposed Stage (ft) | Difference (ft) | |
| 211060 | 11.21 | 11.21 | 0 | 11.91 | 11.91 | 0 | 12.2 | 12.2 | 0 | 12.32 | 12.32 | 0 | 12.77 | 12.77 | 0 | |
| 211070 | 8.46 | 8.46 | 0 | 9.34 | 9.36 | 0.02 | 10.07 | 10.07 | 0 | 10.35 | 10.35 | 0 | 11.42 | 11.4 | -0.02 | |
| 211080 | 8.97 | 8.97 | 0 | 9.28 | 9.28 | 0 | 9.51 | 9.51 | 0 | 9.76 | 9.76 | 0 | 10.72 | 10.69 | -0.03 | |
| 211100 | 8.41 | 8.41 | 0 | 9.33 | 9.34 | 0.01 | 9.94 | 9.94 | 0 | 10.2 | 10.2 | 0 | 11.19 | 11.17 | -0.02 | |
| 211110 | 8.64 | 8.64 | 0 | 8.94 | 8.95 | 0.01 | 9.56 | 9.56 | 0 | 9.82 | 9.82 | 0 | 10.81 | 10.78 | -0.03 | |
| 211120 | 9.88 | 9.88 | 0 | 10.39 | 10.39 | 0 | 10.62 | 10.62 | 0 | 10.73 | 10.73 | 0 | 11.21 | 11.21 | 0 | |
| 211130 | 9.36 | 9.36 | 0 | 10.57 | 10.57 | 0 | 10.71 | 10.71 | 0 | 10.77 | 10.77 | 0 | 11.47 | 11.46 | -0.01 | |
| 211140 | 6.87 | 6.91 | 0.04 | 8.3 | 8.3 | 0 | 8.6 | 8.6 | 0 | 8.73 | 8.73 | 0 | 9.39 | 9.39 | 0 | |
| 211200 | 8.49 | 8.49 | 0 | 10.16 | 10.17 | 0.01 | 10.7 | 10.71 | 0.01 | 10.92 | 10.92 | 0 | 11.83 | 11.83 | 0 | |
| 211210 | 9.84 | 9.84 | 0 | 10.45 | 10.45 | 0 | 10.73 | 10.73 | 0 | 10.86 | 10.86 | 0 | 11.36 | 11.36 | 0 | |
| 211220 | 10.79 | 10.79 | 0 | 11.21 | 11.21 | 0 | 11.49 | 11.49 | 0 | 11.71 | 11.71 | 0 | 12.45 | 12.45 | 0 | |
| 211230 | 11.79 | 11.79 | 0 | 12.07 | 12.07 | 0 | 12.18 | 12.18 | 0 | 12.23 | 12.23 | 0 | 12.48 | 12.48 | 0 | |
| 211300 | 7.99 | 8.01 | 0.02 | 10.11 | 10.11 | 0 | 10.74 | 10.75 | 0.01 | 11.01 | 11.01 | 0 | 12.08 | 12.08 | 0 | |
| 211310 | 8 | 8.02 | 0.02 | 10.13 | 10.14 | 0.01 | 10.79 | 10.79 | 0 | 11.06 | 11.07 | 0.01 | 12.15 | 12.15 | 0 | |
| 211320 | 8.04 | 8.06 | 0.02 | 10.17 | 10.17 | 0 | 10.83 | 10.84 | 0.01 | 11.11 | 11.11 | 0 | 12.21 | 12.21 | 0 | |
| 211330 | 8.12 | 8.13 | 0.01 | 10.2 | 10.2 | 0 | 10.87 | 10.87 | 0 | 11.15 | 11.15 | 0 | 12.26 | 12.26 | 0 | |
| 211340 | 8.83 | 8.84 | 0.01 | 10.31 | 10.31 | 0 | 10.97 | 10.97 | 0 | 11.24 | 11.25 | 0.01 | 12.35 | 12.35 | 0 | |
| 211350 | 9.14 | 9.15 | 0.01 | 10.51 | 10.51 | 0 | 11.18 | 11.18 | 0 | 11.46 | 11.47 | 0.01 | 12.58 | 12.58 | 0 | |
| 211360 | 10.35 | 10.35 | 0 | 11.75 | 11.75 | 0 | 12.52 | 12.53 | 0.01 | 12.81 | 12.81 | 0 | 13.86 | 13.86 | 0 | |
| 211370 | 10.8 | 10.8 | 0 | 12.51 | 12.51 | 0 | 13.16 | 13.16 | 0 | 13.44 | 13.44 | 0 | 14.48 | 14.48 | 0 | |
| 211380 | 12.8 | 12.8 | 0 | 13.89 | 13.89 | 0 | 14.32 | 14.32 | 0 | 14.5 | 14.5 | 0 | 15.33 | 15.33 | 0 | |
| 211390 | 12.9 | 12.9 | 0 | 14.15 | 14.15 | 0 | 14.64 | 14.64 | 0 | 14.83 | 14.83 | 0 | 15.62 | 15.62 | 0 | |
| 211400 | 13.53 | 13.53 | 0 | 14.83 | 14.83 | 0 | 15.32 | 15.32 | 0 | 15.5 | 15.5 | 0 | 16.19 | 16.19 | 0 | |
| 211410 | 13.78 | 13.78 | 0 | 15.04 | 15.04 | 0 | 15.56 | 15.56 | 0 | 15.74 | 15.74 | 0 | 16.44 | 16.44 | 0 | |
| 211420 | 14.07 | 14.07 | 0 | 15.37 | 15.37 | 0 | 15.91 | 15.91 | 0 | 16.09 | 16.09 | 0 | 16.79 | 16.79 | 0 | |
| 211430 | 14.49 | 14.49 | 0 | 15.9 | 15.9 | 0 | 16.24 | 16.24 | 0 | 16.39 | 16.39 | 0 | 16.97 | 16.97 | 0 | |
| 211440 | 14.54 | 14.54 | 0 | 15.92 | 15.92 | 0 | 16.27 | 16.27 | 0 | 16.42 | 16.42 | 0 | 17.03 | 17.03 | 0 | |
| 211450 | 14.54 | 14.54 | 0 | 15.92 | 15.92 | 0 | 16.27 | 16.27 | 0 | 16.42 | 16.42 | 0 | 17.03 | 17.03 | 0 | |
| 211460 | 8.02 | 8.04 | 0.02 | 10.16 | 10.17 | 0.01 | 10.81 | 10.82 | 0.01 | 11.08 | 11.09 | 0.01 | 12.16 | 12.16 | 0 | |
| 211470 | 8.03 | 8.05 | 0.02 | 10.31 | 10.31 | 0 | 11.05 | 11.05 | 0 | 11.32 | 11.32 | 0 | 12.34 | 12.34 | 0 | |
| 211475 | 11.87 | 11.87 | 0 | 12.51 | 12.51 | 0 | 12.59 | 12.59 | 0 | 12.62 | 12.62 | 0 | 12.88 | 12.88 | 0 | |
| 211480 | 8.06 | 8.07 | 0.01 | 10.78 | 10.79 | 0.01 | 11.53 | 11.53 | 0 | 11.76 | 11.77 | 0.01 | 12.68 | 12.68 | 0 | |
| 211490 | 11.25 | 11.25 | 0 | 12 | 12 | 0 | 12.28 | 12.28 | 0 | 12.4 | 12.4 | 0 | 12.92 | 12.92 | 0 | |
| 211500 | 11.26 | 11.26 | 0 | 12 | 12 | 0 | 12.28 | 12.28 | 0 | 12.4 | 12.4 | 0 | 12.92 | 12.92 | 0 | |
| 211510 | 11.78 | 11.78 | 0 | 12.15 | 12.15 | 0 | 12.35 | 12.35 | 0 | 12.44 | 12.44 | 0 | 13.16 | 13.16 | 0 | |
| 211520 | 12.52 | 12.52 | 0 | 12.8 | 12.8 | 0 | 12.93 | 12.93 | 0 | 13 | 13 | 0 | 13.22 | 13.22 | 0 | |
| 211530 | 12.51 | 12.51 | 0 | 12.63 | 12.63 | 0 | 12.71 | 12.71 | 0 | 12.75 | 12.75 | 0 | 12.87 | 12.87 | 0 | |
| 211540 | 8.01 | 8.03 | 0.02 | 10.14 | 10.15 | 0.01 | 10.8 | 10.8 | 0 | 11.07 | 11.07 | 0 | 12.16 | 12.16 | 0 | |
| 211550 | 8.01 | 8.03 | 0.02 | 10.14 | 10.15 | 0.01 | 10.8 | 10.81 | 0.01 | 11.08 | 11.08 | 0 | 12.17 | 12.17 | 0 | |
| 211560 | 8.04 | 8.06 | 0.02 | 10.16 | 10.17 | 0.01 | 10.85 | 10.86 | 0.01 | 11.13 | 11.13 | 0 | 12.22 | 12.22 | 0 | |
| 211570 | 8.06 | 8.08 | 0.02 | 10.18 | 10.19 | 0.01 | 10.89 | 10.9 | 0.01 | 11.17 | 11.17 | 0 | 12.27 | 12.27 | 0 | |
| 211580 | 8.07 | 8.09 | 0.02 | 10.18 | 10.19 | 0.01 | 10.93 | 10.93 | 0 | 11.21 | 11.21 | 0 | 12.3 | 12.3 | 0 | |
| 211590 | 8.12 | 8.14 | 0.02 | 10.22 | 10.23 | 0.01 | 11.45 | 11.45 | 0 | 11.72 | 11.72 | 0 | 12.73 | 12.73 | 0 | |
| 211600 | 9.68 | 9.68 | 0 | 10.23 | 10.23 | 0 | 11.08 | 11.09 | 0.01 | 11.38 | 11.38 | 0 | 12.37 | 12.37 | 0 | |
| 211605 | 11.78 | 11.78 | 0 | 12.11 | 12.11 | 0 | 12.47 | 12.47 | 0 | 12.58 | 12.58 | 0 | 13.01 | 13.01 | 0 | |
| 211610 | 8.07 | 8.09 | 0.02 | 10.19 | 10.2 | 0.01 | 10.86 | 10.87 | 0.01 | 11.14 | 11.14 | 0 | 12.26 | 12.26 | 0 | |
| 211620 | 8.03 | 8.04 | 0.01 | 10.16 | 10.17 | 0.01 | 10.8 | 10.81 | 0.01 | 11.08 | 11.08 | 0 | 12.16 | 12.16 | 0 | |
| 211630 | 9.69 | 9.69 | 0 | 10.43 | 10.43 | 0 | 10.81 | 10.81 | 0 | 11.08 | 11.09 | 0.01 | 12.16 | 12.16 | 0 | |
| 211640 | 9.69 | 9.69 | 0 | 10.44 | 10.44 | 0 | 10.81 | 10.82 | 0.01 | 11.09 | 11.09 | 0 | 12.16 | 12.16 | 0 | |
| 211650 | 9.7 | 9.7 | 0 | 10.65 | 10.65 | 0 | 11.06 | 11.06 | 0 | 11.22 | 11.22 | 0 | 12.16 | 12.16 | 0 | |
| 211660 | 8.12 | 8.13 | 0.01 | 10.19 | 10.2 | 0.01 | 10.86 | 10.87 | 0.01 | 11.14 | 11.14 | 0 | 12.26 | 12.26 | 0 | |
| 211670 | 8.04 | 8.06 | 0.02 | 10.17 | 10.17 | 0 | 10.83 | 10.84 | 0.01 | 11.11 | 11.11 | 0 | 12.21 | 12.21 | 0 | |
| 211680 | 0.12 | 0.12 | 0 | 0.12 | 0.12 | 0 | 0.12 | 0.12 | 0 | 0.12 | 0.12 | 0 | 0.12 | 0.12 | 0 | |
| 211690 | 8.04 | 8.06 | 0.02 | 10.17 | 10.17 | 0 | 10.83 | 10.84 | 0.01 | 11.11 | 11.11 | 0 | 12.21 | 12.21 | 0 | |
| 211700 | 8.08 | 8.09 | 0.01 | 10.17 | 10.17 | 0 | 10.83 | 10.84 | 0.01 | 11.11 | 11.11 | 0 | 12.21 | 12.21 | 0 | |
| 211710 | 16.38 | 16.38 | 0 | 16.61 | 16.61 | 0 | 16.72 | 16.72 | 0 | 16.77 | 16.77 | 0 | 16.99 | 16.99 | 0 | |
| 211720 | 16.62 | 16.62 | 0 | 16.83 | 16.83 | 0 | 17.04 | 17.04 | 0 | 17.17 | 17.17 | 0 | 17.7 | 17.7 | 0 | |
| 211730 | 12.2 | 12.2 | 0 | 12.5 | 12.5 | 0 | 12.61 | 12.61 | 0 | 12.66 | 12.66 | 0 | 12.84 | 12.84 | 0 | |
| 211740 | 13.8 | 13.8 | 0 | 14.34 | 14.34 | 0 | 14.44 | 14.44 | 0 | 14.49 | 14.49 | 0 | 14.72 | 14.72 | 0 | |
| 211750 | 13.69 | 13.69 | 0 | 14.36 | 14.36 | 0 | 14.58 | 14.58 | 0 | 14.66 | 14.66 | 0 | 15.01 | 15.01 | 0 | |
| 211760 | 15.56 | 15.56 | 0 | 16.54 | 16.54 | 0 | 16.93 | 16.93 | 0 | 17.09 | 17.09 | 0 | 17.66 | 17.66 | 0 | |
| 211770 | 12.91 | 12.91 | 0 | 14.16 | 14.16 | 0 | 14.64 | 14.64 | 0 | 14.83 | 14.83 | 0 | 15.62 | 15.62 | 0 | |
| 211780 | 12.92 | 12.92 | 0 | 14.2 | 14.2 | 0 | 14.67 | 14.67 | 0 | 14.85 | 14.85 | 0 | 15.62 | 15.62 | 0 | |
| 211790 | 13.01 | 13.01 | 0 | 14.23 | 14.23 | 0 | 14.68 | 14.68 | 0 | 14.85 | 14.85 | 0 | 15.62 | 15.62 | 0 | |
| 211800 | 13.04 | 13.04 | 0 | 14.31 | 14.31 | 0 | 14.74 | 14.74 | 0 | 14.9 | 14.9 | 0 | 15.62 | 15.62 | 0 | |
| 211810 | 13.29 | 13.29 | 0 | 14.35 | 14.35 | 0 | 14.76 | 14.76 | 0 | 14.92 | 14.92 | 0 | 15.62 | 15.62 | 0 | |
| 211820 | 13.41 | 13.41 | 0 | 14.46 | 14.46 | 0 | 14.88 | 14.88 | 0 | 15.04 | 15.04 | 0 | 15.57 | 15.57 | 0 | |
| 211840 | 12.94 | 12.94 | 0 | 14.22 | 14.22 | 0 | 14.67 | 14.67 | 0 | 14.85 | 14.85 | 0 | 15.62 | 15.62 | 0 | |
| 211850 | 13.01 | 13.01 | 0 | 14.23 | 14.23 | 0 | 14.68 | 14.68 | 0 | 14.85 | 14.85 | 0 | 15.62 | 15.62 | 0 | |
| 211860 | 13.06 | 13.06 | 0 | 14.32 | 14.32 | 0 | 14.74 | 14.74 | 0 | 14.9 | 14.9 | 0 | 15.62 | 15.62 | 0 | |
| 211870 | 15.53 | 15.53 | 0 | 15.72 | 15.72 | 0 | 15.82 | 15.82 | 0 | 15.86 | 15.86 | 0 | 16.02 | 16.02 | 0 | |
| 211880 | 14.37 | 14.37 | 0 | 16.32 | 16.32 | 0 | 16.57 | 16.57 | 0 | 16.6 | 16.6 | 0 | 16.86 | 16.86 | 0 | |
| 211890 | 14.38 | 14.38 | 0 | 15.6 | 15.6 | 0 | 16.13 | 16.13 | 0 | 16.34 | 16.34 | 0 | 17.19 | 17.19 | 0 | |
| 211900 | 16.43 | 16.43 | 0 | 17.59 | 17.59 | 0 | 18.21 | 18.21 | 0 | 18.51 | 18.51 | 0 | 19.7 | 19.7 | 0 | |
| 211910 | 14.38 | 14.38 | 0 | 15.6 | 15.6 | 0 | 16.13 | 16.13 | 0 | 16.34 | 16.34 | 0 | 17.19 | 17.19 | 0 | |
| 211920 | 18.12 | 18.12 | 0 | 18.77 | 18.77 | 0 | 19.2 | 19.2 | 0 | 19.35 | 19.35 | 0 | 19.94 | 19.94 | 0 | |
| 211930 | 18.29 | 18.29 | 0 | 18.98 | 18.98 | 0 | 19.28 | 19.28 | 0 | 19.4 | 19.4 | 0 | 19.96 | 19.96 | 0 | |
| 211940 | 15.77 | 15.77 | 0 | 16.15 | 16.15 | 0 | 16.36 | 16.36 | 0 | 16.47 | 16.47 | 0 | 17 | 17 | 0 | |
| 211950 | 20.4 | 20.4 | 0 | 20.72 | 20.72 | 0 | 20.86 | 20.86 | 0 | 20.93 | 20.93 | 0 | 21.23 | 21.23 | 0 | |
| 212000 | 8.06 | 8.08 | 0.02 | 10.17 | 10.18 | 0.01 | 10.77 | 10.78 | 0.01 | 11.02 | 11.03 | 0.01 | 12.08 | 12.07 | -0.01 | |
| 212010 | 8.06 | 8.08 | 0.02 | 10.17 | 10.17 | 0 | 10.76 | 10.76 | 0 | 11 | 11.01 | 0.01 | 12.04 | 12.04 | 0 | |
| 212020 | 8.06 | 8.08 | 0.02 | 10.17 | 10.18 | 0.01 | 10.73 | 10.74 | 0.01 | 10.92 | 10.93 | 0.01 | 11.72 | 11.71 | -0.01 | |
| 212030 | 8.07</ | | | | | | | | | | | | | | | |

Summary of Corrected and Revised Stages for Bridge

| Node | 2.33YR24HR | | | 25YR24HR | | | 50YR24HR | | | 100YR24HR | | | 500YR24HR | | | Notes |
|--------|--------------------------------|---------------------|-----------------|--------------------------------|---------------------|-----------------|--------------------------------|---------------------|-----------------|--------------------------------|---------------------|-----------------|--------------------------------|---------------------|-----------------|-------|
| | Corrected Effective Stage (ft) | Proposed Stage (ft) | Difference (ft) | Corrected Effective Stage (ft) | Proposed Stage (ft) | Difference (ft) | Corrected Effective Stage (ft) | Proposed Stage (ft) | Difference (ft) | Corrected Effective Stage (ft) | Proposed Stage (ft) | Difference (ft) | Corrected Effective Stage (ft) | Proposed Stage (ft) | Difference (ft) | |
| 212120 | 12.71 | 12.71 | 0 | 14.34 | 14.34 | 0 | 14.57 | 14.57 | 0 | 14.65 | 14.65 | 0 | 15.07 | 15.07 | 0 | |
| 212130 | 12.72 | 12.72 | 0 | 13.86 | 13.86 | 0 | 14.23 | 14.23 | 0 | 14.37 | 14.37 | 0 | 14.93 | 14.93 | 0 | |
| 212140 | 10.35 | 10.35 | 0 | 12.73 | 12.73 | 0 | 13.43 | 13.44 | 0.01 | 13.69 | 13.69 | 0 | 14.54 | 14.54 | 0 | |
| 212150 | 10.44 | 10.44 | 0 | 12.98 | 12.98 | 0 | 13.74 | 13.74 | 0 | 14.04 | 14.04 | 0 | 14.93 | 14.93 | 0 | |
| 212160 | 10.46 | 10.46 | 0 | 13.01 | 13.01 | 0 | 13.76 | 13.77 | 0.01 | 14.07 | 14.07 | 0 | 14.99 | 14.99 | 0 | |
| 212170 | 10.5 | 10.5 | 0 | 13.04 | 13.04 | 0 | 13.79 | 13.79 | 0 | 14.11 | 14.11 | 0 | 15.06 | 15.06 | 0 | |
| 212180 | 10.85 | 10.85 | 0 | 13.27 | 13.27 | 0 | 13.97 | 13.97 | 0 | 14.36 | 14.36 | 0 | 15.54 | 15.54 | 0 | |
| 212190 | 10.87 | 10.87 | 0 | 13.13 | 13.13 | 0 | 13.64 | 13.64 | 0 | 13.89 | 13.89 | 0 | 14.59 | 14.59 | 0 | |
| 212200 | 10.88 | 10.88 | 0 | 13.09 | 13.09 | 0 | 13.26 | 13.26 | 0 | 13.3 | 13.3 | 0 | 13.39 | 13.39 | 0 | |
| 212210 | 13.11 | 13.11 | 0 | 15.11 | 15.11 | 0 | 16.41 | 16.41 | 0 | 16.8 | 16.8 | 0 | 17.68 | 17.68 | 0 | |
| 212220 | 13.33 | 13.33 | 0 | 15.19 | 15.19 | 0 | 15.46 | 15.46 | 0 | 15.61 | 15.61 | 0 | 16.43 | 16.43 | 0 | |
| 212230 | 11 | 11 | 0 | 13.52 | 13.52 | 0 | 14.26 | 14.26 | 0 | 14.73 | 14.73 | 0 | 16.27 | 16.28 | 0.01 | |
| 212240 | 11.56 | 11.56 | 0 | 13.57 | 13.57 | 0 | 13.82 | 13.82 | 0 | 13.9 | 13.9 | 0 | 14.1 | 14.1 | 0 | |
| 212250 | 11.99 | 11.99 | 0 | 15.7 | 15.7 | 0 | 16.05 | 16.05 | 0 | 16.18 | 16.18 | 0 | 16.78 | 16.78 | 0 | |
| 212260 | 14.16 | 14.16 | 0 | 16.92 | 16.92 | 0 | 17.14 | 17.14 | 0 | 17.22 | 17.22 | 0 | 17.71 | 17.71 | 0 | |
| 212270 | 11.87 | 11.87 | 0 | 13.99 | 13.99 | 0 | 14.82 | 14.82 | 0 | 15.11 | 15.11 | 0 | 16.23 | 16.23 | 0 | |
| 212280 | 14.48 | 14.48 | 0 | 14.91 | 14.91 | 0 | 15.21 | 15.21 | 0 | 15.37 | 15.37 | 0 | 16.3 | 16.3 | 0 | |
| 212290 | 14.48 | 14.48 | 0 | 14.91 | 14.91 | 0 | 15.36 | 15.36 | 0 | 15.62 | 15.62 | 0 | 16.75 | 16.75 | 0 | |
| 212300 | 14.53 | 14.53 | 0 | 15.66 | 15.66 | 0 | 16.62 | 16.62 | 0 | 17.16 | 17.16 | 0 | 18.68 | 18.68 | 0 | |
| 212320 | 14.44 | 14.44 | 0 | 16.25 | 16.25 | 0 | 16.79 | 16.79 | 0 | 16.97 | 16.97 | 0 | 17.64 | 17.64 | 0 | |
| 212330 | 14.83 | 14.83 | 0 | 16.71 | 16.71 | 0 | 17.25 | 17.25 | 0 | 17.4 | 17.4 | 0 | 17.98 | 17.98 | 0 | |
| 212400 | 16.33 | 16.33 | 0 | 17.18 | 17.18 | 0 | 17.53 | 17.53 | 0 | 17.69 | 17.69 | 0 | 18.39 | 18.39 | 0 | |
| 212410 | 16.71 | 16.71 | 0 | 17.66 | 17.66 | 0 | 18 | 18 | 0 | 18.16 | 18.16 | 0 | 18.82 | 18.82 | 0 | |
| 212420 | 16.81 | 16.81 | 0 | 17.79 | 17.79 | 0 | 18.12 | 18.12 | 0 | 18.26 | 18.26 | 0 | 18.91 | 18.91 | 0 | |
| 212430 | 17.2 | 17.2 | 0 | 18.17 | 18.17 | 0 | 18.49 | 18.49 | 0 | 18.62 | 18.62 | 0 | 19.24 | 19.24 | 0 | |
| 212440 | 17.39 | 17.39 | 0 | 18.42 | 18.42 | 0 | 18.74 | 18.74 | 0 | 18.88 | 18.88 | 0 | 19.48 | 19.48 | 0 | |
| 212450 | 17.47 | 17.47 | 0 | 18.53 | 18.53 | 0 | 18.86 | 18.86 | 0 | 18.99 | 18.99 | 0 | 19.58 | 19.58 | 0 | |
| 212460 | 17.5 | 17.5 | 0 | 18.57 | 18.57 | 0 | 18.89 | 18.89 | 0 | 19.02 | 19.02 | 0 | 19.6 | 19.6 | 0 | |
| 212470 | 17.88 | 17.88 | 0 | 18.81 | 18.81 | 0 | 19.06 | 19.06 | 0 | 19.17 | 19.17 | 0 | 19.66 | 19.66 | 0 | |
| 212480 | 18.17 | 18.17 | 0 | 19.15 | 19.15 | 0 | 19.4 | 19.4 | 0 | 19.49 | 19.49 | 0 | 19.87 | 19.87 | 0 | |
| 212490 | 18.23 | 18.23 | 0 | 19.17 | 19.17 | 0 | 19.4 | 19.4 | 0 | 19.49 | 19.49 | 0 | 19.86 | 19.86 | 0 | |
| 212500 | 18.64 | 18.64 | 0 | 19.21 | 19.21 | 0 | 19.38 | 19.38 | 0 | 19.45 | 19.45 | 0 | 19.78 | 19.78 | 0 | |
| 212510 | 16.74 | 16.74 | 0 | 17.41 | 17.41 | 0 | 17.69 | 17.69 | 0 | 17.83 | 17.83 | 0 | 18.44 | 18.44 | 0 | |
| 212520 | 16.76 | 16.76 | 0 | 17.41 | 17.41 | 0 | 17.7 | 17.7 | 0 | 17.83 | 17.83 | 0 | 18.44 | 18.44 | 0 | |
| 212530 | 16.84 | 16.84 | 0 | 17.36 | 17.36 | 0 | 17.53 | 17.53 | 0 | 17.6 | 17.6 | 0 | 17.91 | 17.91 | 0 | |
| 212540 | 17.58 | 17.58 | 0 | 18.27 | 18.27 | 0 | 18.5 | 18.5 | 0 | 18.61 | 18.61 | 0 | 19.21 | 19.21 | 0 | |
| 212550 | 16.88 | 16.88 | 0 | 18.01 | 18.01 | 0 | 18.38 | 18.38 | 0 | 18.5 | 18.5 | 0 | 19.16 | 19.16 | 0 | |
| 212560 | 16.95 | 16.95 | 0 | 18.04 | 18.04 | 0 | 18.38 | 18.38 | 0 | 18.5 | 18.5 | 0 | 19.13 | 19.13 | 0 | |
| 212570 | 17.2 | 17.2 | 0 | 18.22 | 18.22 | 0 | 18.41 | 18.41 | 0 | 18.49 | 18.49 | 0 | 18.73 | 18.73 | 0 | |
| 212580 | 17.5 | 17.5 | 0 | 18.57 | 18.57 | 0 | 18.89 | 18.89 | 0 | 19.03 | 19.03 | 0 | 19.63 | 19.63 | 0 | |
| 212590 | 17.68 | 17.68 | 0 | 19.19 | 19.19 | 0 | 19.58 | 19.58 | 0 | 19.74 | 19.74 | 0 | 20.36 | 20.36 | 0 | |
| 212600 | 17.49 | 17.49 | 0 | 18.56 | 18.56 | 0 | 18.89 | 18.89 | 0 | 19.03 | 19.03 | 0 | 19.66 | 19.66 | 0 | |
| 212610 | 17.67 | 17.67 | 0 | 19.42 | 19.42 | 0 | 19.79 | 19.79 | 0 | 19.94 | 19.94 | 0 | 20.65 | 20.65 | 0 | |
| 212620 | 17.88 | 17.88 | 0 | 20.06 | 20.06 | 0 | 20.65 | 20.65 | 0 | 20.9 | 20.9 | 0 | 21.8 | 21.8 | 0 | |
| 212630 | 18.22 | 18.22 | 0 | 20.98 | 20.98 | 0 | 21.55 | 21.55 | 0 | 21.74 | 21.74 | 0 | 22.49 | 22.49 | 0 | |
| 212640 | 17.85 | 17.85 | 0 | 19.45 | 19.45 | 0 | 19.8 | 19.8 | 0 | 19.95 | 19.95 | 0 | 20.56 | 20.56 | 0 | |
| 212650 | 18.65 | 18.65 | 0 | 19.66 | 19.66 | 0 | 19.82 | 19.82 | 0 | 19.88 | 19.88 | 0 | 20.2 | 20.2 | 0 | |
| 212660 | 18.19 | 18.19 | 0 | 19.27 | 19.27 | 0 | 19.61 | 19.61 | 0 | 19.75 | 19.75 | 0 | 20.27 | 20.27 | 0 | |
| 212670 | 18.19 | 18.19 | 0 | 19.19 | 19.19 | 0 | 19.54 | 19.54 | 0 | 19.69 | 19.69 | 0 | 20.27 | 20.27 | 0 | |
| 212680 | 18.12 | 18.12 | 0 | 19.19 | 19.19 | 0 | 19.54 | 19.54 | 0 | 19.69 | 19.69 | 0 | 20.27 | 20.27 | 0 | |
| 212690 | 19.42 | 19.42 | 0 | 19.82 | 19.82 | 0 | 19.92 | 19.92 | 0 | 19.97 | 19.97 | 0 | 20.27 | 20.27 | 0 | |
| 212700 | 17.03 | 17.03 | 0 | 18.27 | 18.27 | 0 | 18.79 | 18.79 | 0 | 18.92 | 18.92 | 0 | 19.3 | 19.3 | 0 | |
| 212710 | 18.72 | 18.72 | 0 | 18.94 | 18.94 | 0 | 19.02 | 19.02 | 0 | 19.06 | 19.06 | 0 | 19.33 | 19.33 | 0 | |
| 212720 | 15.19 | 15.19 | 0 | 15.58 | 15.58 | 0 | 15.77 | 15.78 | 0.01 | 16.11 | 16.11 | 0 | 17.41 | 17.41 | 0 | |
| 212730 | 17.34 | 17.34 | 0 | 17.81 | 17.81 | 0 | 18.05 | 18.05 | 0 | 18.16 | 18.16 | 0 | 18.66 | 18.66 | 0 | |
| 212740 | 14.46 | 14.46 | 0 | 16.72 | 16.72 | 0 | 17.6 | 17.6 | 0 | 17.97 | 17.97 | 0 | 19.48 | 19.48 | 0 | |
| 212750 | 16.8 | 16.8 | 0 | 17.22 | 17.22 | 0 | 17.62 | 17.62 | 0 | 18.05 | 18.05 | 0 | 19.58 | 19.58 | 0 | |
| 212760 | 20.67 | 20.67 | 0 | 21.14 | 21.14 | 0 | 21.27 | 21.27 | 0 | 21.33 | 21.33 | 0 | 21.64 | 21.64 | 0 | |
| 212770 | 20.87 | 20.87 | 0 | 21.54 | 21.54 | 0 | 21.78 | 21.78 | 0 | 21.88 | 21.88 | 0 | 22.33 | 22.33 | 0 | |
| 212780 | 17.81 | 17.81 | 0 | 18.77 | 18.77 | 0 | 19.24 | 19.24 | 0 | 19.36 | 19.36 | 0 | 19.95 | 19.95 | 0 | |
| 212790 | 19.61 | 19.61 | 0 | 20.31 | 20.31 | 0 | 20.9 | 20.9 | 0 | 21.18 | 21.18 | 0 | 22.33 | 22.33 | 0 | |
| 212900 | 19.7 | 19.7 | 0 | 20.72 | 20.72 | 0 | 21.09 | 21.09 | 0 | 21.24 | 21.24 | 0 | 21.92 | 21.92 | 0 | |
| 212910 | 19.98 | 19.98 | 0 | 21.03 | 21.03 | 0 | 21.39 | 21.39 | 0 | 21.54 | 21.54 | 0 | 22.18 | 22.18 | 0 | |
| 212920 | 20.11 | 20.11 | 0 | 21.24 | 21.24 | 0 | 21.63 | 21.63 | 0 | 21.79 | 21.79 | 0 | 22.45 | 22.45 | 0 | |
| 212930 | 20.15 | 20.15 | 0 | 21.27 | 21.27 | 0 | 21.66 | 21.66 | 0 | 21.82 | 21.82 | 0 | 22.49 | 22.49 | 0 | |
| 212940 | 20.33 | 20.33 | 0 | 21.73 | 21.73 | 0 | 22.21 | 22.21 | 0 | 22.39 | 22.39 | 0 | 22.98 | 22.98 | 0 | |
| 212950 | 20.59 | 20.59 | 0 | 21.82 | 21.82 | 0 | 22.27 | 22.27 | 0 | 22.45 | 22.45 | 0 | 23.01 | 23.01 | 0 | |
| 212960 | 21.43 | 21.43 | 0 | 22.29 | 22.29 | 0 | 22.78 | 22.78 | 0 | 22.97 | 22.97 | 0 | 23.5 | 23.5 | 0 | |
| 212970 | 21.55 | 21.55 | 0 | 22.17 | 22.17 | 0 | 22.52 | 22.52 | 0 | 22.67 | 22.67 | 0 | 23.23 | 23.23 | 0 | |
| 212980 | 20.61 | 20.61 | 0 | 21.95 | 21.95 | 0 | 22.44 | 22.44 | 0 | 22.63 | 22.63 | 0 | 23.69 | 23.69 | 0 | |
| 212990 | 22.12 | 22.12 | 0 | 22.94 | 22.94 | 0 | 23.26 | 23.26 | 0 | 23.38 | 23.38 | 0 | 23.75 | 23.75 | 0 | |
| 213100 | 16.65 | 16.65 | 0 | 18.37 | 18.37 | 0 | 19.06 | 19.06 | 0 | 19.34 | 19.34 | 0 | 20.96 | 20.96 | 0 | |
| 213110 | 19.44 | 19.44 | 0 | 20.39 | 20.39 | 0 | 20.93 | 20.93 | 0 | 21.2 | 21.2 | 0 | 21.87 | 21.87 | 0 | |
| 213120 | 19.44 | 19.44 | 0 | 20.4 | 20.4 | 0 | 20.93 | 20.93 | 0 | 21.2 | 21.2 | 0 | 22 | 22 | 0 | |
| 213130 | 19.44 | 19.44 | 0 | 20.4 | 20.4 | 0 | 20.94 | 20.94 | 0 | 21.2 | 21.2 | 0 | 22.04 | 22.04 | 0 | |
| 213140 | 16.25 | 16.25 | 0 | 18.53 | 18.53 | 0 | 19.27 | 19.27 | 0 | 19.71 | 19.71 | 0 | 21.62 | 21.62 | 0 | |
| 213150 | 19.78 | 19.78 | 0 | 20.65 | 20.65 | 0 | 20.95 | 20.95 | 0 | 21.08 | 21.08 | 0 | 21.78 | 21.78 | 0 | |
| 213160 | 19.03 | 19.03 | 0 | 20.54 | 20.54 | 0 | 21.11 | 21.11 | 0 | 21.33 | 21.33 | 0 | 22.24 | 22.24 | 0 | |
| 213170 | 19.25 | 19.25 | 0 | 21.33 | 21.33 | 0 | 22.25 | 22.25 | 0 | 22.6 | 22.6 | 0 | 23.6 | 23.6 | 0 | |
| 213180 | 20.29 | 20.29 | 0 | 21.93 | 21.93 | 0 | 22.64 | 22.64 | 0 | 22.9 | 22.9 | 0 | 23.93 | 23.93 | 0 | |
| 213190 | 20.4 | 20.4 | 0 | 22.4 | 22.4 | 0 | 23.3 | 23.3 | 0 | 23.61 | 23.61 | 0 | 24.47 | 24.47 | 0 | |
| 213200 | 20.58 | 20.58 | 0 | 21.82 | 21.82 | 0 | 22.47 | 22.47 | 0 | 22.76 | 22.76 | 0 | 23.87 | 23.87 | 0 | |
| 213210 | 18.7 | 18.7 | 0 | 19.17 | 19.17 | 0 | 19.43 | 19.43 | 0 | 19.56 | 19.56 | 0 | 20.24 | 20. | | |

Summary of Corrected and Revised Stages for Bridge

| Node | 2.33YR24HR | | | 25YR24HR | | | 50YR24HR | | | 100YR24HR | | | 500YR24HR | | | Notes |
|--------|--------------------------------|---------------------|-----------------|--------------------------------|---------------------|-----------------|--------------------------------|---------------------|-----------------|--------------------------------|---------------------|-----------------|--------------------------------|---------------------|-----------------|-------|
| | Corrected Effective Stage (ft) | Proposed Stage (ft) | Difference (ft) | Corrected Effective Stage (ft) | Proposed Stage (ft) | Difference (ft) | Corrected Effective Stage (ft) | Proposed Stage (ft) | Difference (ft) | Corrected Effective Stage (ft) | Proposed Stage (ft) | Difference (ft) | Corrected Effective Stage (ft) | Proposed Stage (ft) | Difference (ft) | |
| 213270 | 19.44 | 19.44 | 0 | 21.46 | 21.46 | 0 | 22.2 | 22.2 | 0 | 22.53 | 22.53 | 0 | 24.09 | 24.09 | 0 | |
| 213300 | 25.92 | 25.92 | 0 | 26.67 | 26.67 | 0 | 27.04 | 27.04 | 0 | 27.21 | 27.21 | 0 | 27.92 | 27.92 | 0 | |
| 213310 | 25.92 | 25.92 | 0 | 26.67 | 26.67 | 0 | 27.04 | 27.04 | 0 | 27.21 | 27.21 | 0 | 27.92 | 27.92 | 0 | |
| 213320 | 28.73 | 28.73 | 0 | 30.13 | 30.13 | 0 | 30.6 | 30.6 | 0 | 30.8 | 30.8 | 0 | 31.67 | 31.67 | 0 | |
| 213330 | 26.11 | 26.11 | 0 | 26.61 | 26.61 | 0 | 26.78 | 26.78 | 0 | 26.86 | 26.86 | 0 | 27.2 | 27.2 | 0 | |
| 213340 | 24.7 | 24.7 | 0 | 25.35 | 25.35 | 0 | 25.72 | 25.72 | 0 | 25.89 | 25.89 | 0 | 26.32 | 26.32 | 0 | |
| 213350 | 22.99 | 22.99 | 0 | 24.09 | 24.09 | 0 | 24.34 | 24.34 | 0 | 24.44 | 24.44 | 0 | 24.87 | 24.87 | 0 | |
| 213360 | 24.09 | 24.09 | 0 | 24.53 | 24.53 | 0 | 24.78 | 24.78 | 0 | 24.89 | 24.89 | 0 | 25.38 | 25.38 | 0 | |
| 213370 | 24.64 | 24.64 | 0 | 25.02 | 25.02 | 0 | 25.18 | 25.18 | 0 | 25.25 | 25.25 | 0 | 25.52 | 25.52 | 0 | |
| 213380 | 22.99 | 22.99 | 0 | 24.09 | 24.09 | 0 | 24.34 | 24.34 | 0 | 24.44 | 24.44 | 0 | 24.87 | 24.87 | 0 | |
| 213390 | 23.67 | 23.67 | 0 | 24.12 | 24.12 | 0 | 24.34 | 24.34 | 0 | 24.44 | 24.44 | 0 | 24.87 | 24.87 | 0 | |
| 213500 | 22.37 | 22.37 | 0 | 23.04 | 23.04 | 0 | 23.68 | 23.68 | 0 | 23.98 | 23.98 | 0 | 25.43 | 25.43 | 0 | |
| 213510 | 23.2 | 23.2 | 0 | 23.8 | 23.8 | 0 | 24.39 | 24.39 | 0 | 24.64 | 24.64 | 0 | 25.66 | 25.66 | 0 | |
| 213520 | 24.41 | 24.41 | 0 | 26.03 | 26.03 | 0 | 26.26 | 26.26 | 0 | 26.34 | 26.34 | 0 | 26.68 | 26.68 | 0 | |
| 213530 | 26.2 | 26.2 | 0 | 26.9 | 26.9 | 0 | 27.09 | 27.09 | 0 | 27.16 | 27.16 | 0 | 27.44 | 27.44 | 0 | |
| 213540 | 26.22 | 26.22 | 0 | 26.96 | 26.96 | 0 | 27.2 | 27.2 | 0 | 27.29 | 27.29 | 0 | 27.68 | 27.68 | 0 | |
| 213550 | 26.27 | 26.27 | 0 | 27.06 | 27.06 | 0 | 27.32 | 27.32 | 0 | 27.42 | 27.42 | 0 | 27.81 | 27.81 | 0 | |
| 213560 | 26.27 | 26.27 | 0 | 27.06 | 27.06 | 0 | 27.33 | 27.33 | 0 | 27.42 | 27.42 | 0 | 27.82 | 27.82 | 0 | |
| 213570 | 26.27 | 26.27 | 0 | 27.08 | 27.08 | 0 | 27.35 | 27.35 | 0 | 27.46 | 27.46 | 0 | 27.87 | 27.87 | 0 | |
| 213580 | 26.28 | 26.28 | 0 | 27.12 | 27.12 | 0 | 27.4 | 27.4 | 0 | 27.5 | 27.5 | 0 | 27.91 | 27.91 | 0 | |
| 213590 | 26.73 | 26.73 | 0 | 27.46 | 27.46 | 0 | 27.65 | 27.65 | 0 | 27.73 | 27.73 | 0 | 28.07 | 28.07 | 0 | |
| 213600 | 26.74 | 26.74 | 0 | 27.5 | 27.5 | 0 | 27.71 | 27.71 | 0 | 27.79 | 27.79 | 0 | 28.19 | 28.19 | 0 | |
| 213610 | 26.88 | 26.88 | 0 | 27.82 | 27.82 | 0 | 28.16 | 28.16 | 0 | 28.29 | 28.29 | 0 | 28.83 | 28.83 | 0 | |
| 213620 | 22.37 | 22.37 | 0 | 23.04 | 23.04 | 0 | 23.68 | 23.68 | 0 | 23.98 | 23.98 | 0 | 25.43 | 25.43 | 0 | |
| 213630 | 23.47 | 23.47 | 0 | 23.79 | 23.79 | 0 | 23.86 | 23.86 | 0 | 23.98 | 23.98 | 0 | 25.43 | 25.43 | 0 | |
| 213640 | 24.45 | 24.45 | 0 | 26.17 | 26.17 | 0 | 26.47 | 26.47 | 0 | 26.58 | 26.58 | 0 | 27.08 | 27.08 | 0 | |
| 213650 | 26.58 | 26.58 | 0 | 27.03 | 27.03 | 0 | 27.26 | 27.26 | 0 | 27.36 | 27.36 | 0 | 27.79 | 27.79 | 0 | |
| 213660 | 26.86 | 26.86 | 0 | 26.86 | 26.86 | 0 | 26.86 | 26.86 | 0 | 26.86 | 26.86 | 0 | 26.95 | 26.95 | 0 | |
| 213670 | 26.19 | 26.19 | 0 | 27.12 | 27.12 | 0 | 27.41 | 27.41 | 0 | 27.51 | 27.51 | 0 | 27.93 | 27.93 | 0 | |
| 213680 | 26.06 | 26.06 | 0 | 27.12 | 27.12 | 0 | 27.41 | 27.41 | 0 | 27.51 | 27.51 | 0 | 27.93 | 27.93 | 0 | |
| 213690 | 26.27 | 26.27 | 0 | 27.08 | 27.08 | 0 | 27.36 | 27.36 | 0 | 27.46 | 27.46 | 0 | 27.92 | 27.92 | 0 | |
| 213700 | 23.2 | 23.2 | 0 | 24.5 | 24.5 | 0 | 25.11 | 25.11 | 0 | 25.41 | 25.41 | 0 | 26.68 | 26.68 | 0 | |
| 213710 | 23.33 | 23.33 | 0 | 24.62 | 24.62 | 0 | 25.22 | 25.22 | 0 | 25.5 | 25.5 | 0 | 26.71 | 26.71 | 0 | |
| 213720 | 23 | 23 | 0 | 23.73 | 23.73 | 0 | 24.86 | 24.86 | 0 | 25.15 | 25.15 | 0 | 26.38 | 26.38 | 0 | |
| 213730 | 23.14 | 23.14 | 0 | 24.31 | 24.31 | 0 | 24.87 | 24.87 | 0 | 25.15 | 25.15 | 0 | 26.38 | 26.38 | 0 | |
| 213740 | 23.43 | 23.43 | 0 | 24.31 | 24.31 | 0 | 24.87 | 24.87 | 0 | 25.15 | 25.15 | 0 | 26.38 | 26.38 | 0 | |
| 213750 | 23.82 | 23.82 | 0 | 24.31 | 24.31 | 0 | 24.87 | 24.87 | 0 | 25.15 | 25.15 | 0 | 26.38 | 26.38 | 0 | |
| 213760 | 24.78 | 24.78 | 0 | 25.19 | 25.19 | 0 | 25.38 | 25.38 | 0 | 25.48 | 25.48 | 0 | 26.38 | 26.38 | 0 | |
| 213800 | 23.78 | 23.78 | 0 | 25.06 | 25.06 | 0 | 25.66 | 25.66 | 0 | 25.92 | 25.92 | 0 | 27.06 | 27.06 | 0 | |
| 213810 | 23.77 | 23.77 | 0 | 25.06 | 25.06 | 0 | 25.66 | 25.66 | 0 | 25.92 | 25.92 | 0 | 27.06 | 27.06 | 0 | |
| 213820 | 23.77 | 23.77 | 0 | 25.06 | 25.06 | 0 | 25.66 | 25.66 | 0 | 25.92 | 25.92 | 0 | 27.06 | 27.06 | 0 | |
| 213830 | 23.77 | 23.77 | 0 | 25.06 | 25.06 | 0 | 25.66 | 25.66 | 0 | 25.92 | 25.92 | 0 | 27.06 | 27.06 | 0 | |
| 213840 | 23.77 | 23.77 | 0 | 25.06 | 25.06 | 0 | 25.66 | 25.66 | 0 | 25.92 | 25.92 | 0 | 27.15 | 27.15 | 0 | |
| 213850 | 23.77 | 23.77 | 0 | 25.06 | 25.06 | 0 | 25.66 | 25.66 | 0 | 25.92 | 25.92 | 0 | 27.41 | 27.41 | 0 | |
| 213860 | 23.7 | 23.7 | 0 | 24.89 | 24.89 | 0 | 25.44 | 25.44 | 0 | 25.69 | 25.69 | 0 | 26.8 | 26.8 | 0 | |
| 213870 | 23.77 | 23.77 | 0 | 25.06 | 25.06 | 0 | 25.66 | 25.66 | 0 | 25.92 | 25.92 | 0 | 27.06 | 27.06 | 0 | |
| 213875 | 25.71 | 25.71 | 0 | 26.43 | 26.43 | 0 | 26.61 | 26.61 | 0 | 26.69 | 26.69 | 0 | 27.07 | 27.07 | 0 | |
| 213880 | 25.75 | 25.75 | 0 | 26.43 | 26.43 | 0 | 26.61 | 26.61 | 0 | 26.69 | 26.69 | 0 | 27.07 | 27.07 | 0 | |
| 213890 | 23.77 | 23.77 | 0 | 25.06 | 25.06 | 0 | 25.66 | 25.66 | 0 | 25.92 | 25.92 | 0 | 27.06 | 27.06 | 0 | |
| 213900 | 23.77 | 23.77 | 0 | 25.06 | 25.06 | 0 | 25.66 | 25.66 | 0 | 25.92 | 25.92 | 0 | 27.18 | 27.18 | 0 | |
| 214000 | 23.8 | 23.8 | 0 | 25.12 | 25.12 | 0 | 25.75 | 25.75 | 0 | 26.03 | 26.03 | 0 | 27.16 | 27.16 | 0 | |
| 214010 | 25.25 | 25.25 | 0 | 26.05 | 26.05 | 0 | 26.35 | 26.35 | 0 | 26.51 | 26.51 | 0 | 27.37 | 27.37 | 0 | |
| 214020 | 25.31 | 25.31 | 0 | 26.16 | 26.16 | 0 | 26.47 | 26.47 | 0 | 26.64 | 26.64 | 0 | 27.53 | 27.53 | 0 | |
| 214030 | 25.83 | 25.83 | 0 | 26.56 | 26.56 | 0 | 26.89 | 26.89 | 0 | 27.06 | 27.06 | 0 | 27.86 | 27.86 | 0 | |
| 214040 | 26.48 | 26.48 | 0 | 27.04 | 27.04 | 0 | 27.34 | 27.34 | 0 | 27.5 | 27.5 | 0 | 28.18 | 28.18 | 0 | |
| 214050 | 26.77 | 26.77 | 0 | 27.33 | 27.33 | 0 | 27.6 | 27.6 | 0 | 27.78 | 27.78 | 0 | 28.55 | 28.55 | 0 | |
| 214060 | 27.04 | 27.04 | 0 | 27.61 | 27.61 | 0 | 27.88 | 27.88 | 0 | 28.06 | 28.06 | 0 | 28.92 | 28.92 | 0 | |
| 214070 | 27.09 | 27.09 | 0 | 27.67 | 27.67 | 0 | 27.94 | 27.94 | 0 | 28.12 | 28.12 | 0 | 29.53 | 29.53 | 0 | |
| 214080 | 27.1 | 27.1 | 0 | 27.66 | 27.66 | 0 | 27.94 | 27.94 | 0 | 28.12 | 28.12 | 0 | 29.57 | 29.57 | 0 | |
| 214090 | 27.97 | 27.97 | 0 | 28.65 | 28.65 | 0 | 29.02 | 29.02 | 0 | 29.19 | 29.19 | 0 | 29.7 | 29.7 | 0 | |
| 214100 | 23.8 | 23.8 | 0 | 25.12 | 25.12 | 0 | 25.73 | 25.73 | 0 | 26 | 26 | 0 | 27.15 | 27.15 | 0 | |
| 214110 | 25.38 | 25.38 | 0 | 26.47 | 26.47 | 0 | 26.85 | 26.85 | 0 | 27 | 27 | 0 | 27.74 | 27.74 | 0 | |
| 214120 | 26.15 | 26.15 | 0 | 27.46 | 27.46 | 0 | 27.84 | 27.84 | 0 | 28 | 28 | 0 | 28.63 | 28.63 | 0 | |
| 214130 | 27.47 | 27.47 | 0 | 27.53 | 27.53 | 0 | 27.84 | 27.84 | 0 | 28 | 28 | 0 | 28.63 | 28.63 | 0 | |
| 214140 | 26.7 | 26.7 | 0 | 28.15 | 28.15 | 0 | 28.32 | 28.32 | 0 | 28.38 | 28.38 | 0 | 28.63 | 28.63 | 0 | |
| 214150 | 28.06 | 28.06 | 0 | 28.27 | 28.27 | 0 | 28.35 | 28.35 | 0 | 28.39 | 28.39 | 0 | 28.63 | 28.63 | 0 | |
| 214160 | 25.33 | 25.33 | 0 | 26.23 | 26.23 | 0 | 26.58 | 26.58 | 0 | 26.74 | 26.74 | 0 | 27.54 | 27.54 | 0 | |
| 214170 | 25.77 | 25.77 | 0 | 26.5 | 26.5 | 0 | 26.86 | 26.86 | 0 | 27.03 | 27.03 | 0 | 27.65 | 27.65 | 0 | |
| 214180 | 25.84 | 25.84 | 0 | 26.62 | 26.62 | 0 | 27.04 | 27.04 | 0 | 27.27 | 27.27 | 0 | 28.61 | 28.61 | 0 | |
| 214190 | 25.85 | 25.85 | 0 | 26.69 | 26.69 | 0 | 27.18 | 27.18 | 0 | 27.43 | 27.43 | 0 | 28.66 | 28.66 | 0 | |
| 214200 | 25.85 | 25.85 | 0 | 26.7 | 26.7 | 0 | 27.33 | 27.33 | 0 | 27.76 | 27.76 | 0 | 29.25 | 29.25 | 0 | |
| 214210 | 25.71 | 25.71 | 0 | 27.17 | 27.17 | 0 | 27.67 | 27.67 | 0 | 27.9 | 27.9 | 0 | 28.8 | 28.8 | 0 | |
| 214220 | 25.73 | 25.73 | 0 | 27.19 | 27.19 | 0 | 27.68 | 27.68 | 0 | 27.9 | 27.9 | 0 | 28.8 | 28.8 | 0 | |
| 214230 | 27.76 | 27.76 | 0 | 28.31 | 28.31 | 0 | 28.53 | 28.53 | 0 | 28.62 | 28.62 | 0 | 28.95 | 28.95 | 0 | |
| 214240 | 27.78 | 27.78 | 0 | 28.37 | 28.37 | 0 | 28.6 | 28.6 | 0 | 28.71 | 28.71 | 0 | 29.13 | 29.13 | 0 | |
| 214250 | 27.84 | 27.84 | 0 | 28.18 | 28.18 | 0 | 28.33 | 28.33 | 0 | 28.39 | 28.39 | 0 | 28.72 | 28.72 | 0 | |
| 214260 | 27.78 | 27.78 | 0 | 28.47 | 28.47 | 0 | 28.79 | 28.79 | 0 | 28.91 | 28.91 | 0 | 29.33 | 29.33 | 0 | |
| 214270 | 27.16 | 27.16 | 0 | 27.85 | 27.85 | 0 | 28.09 | 28.09 | 0 | 28.19 | 28.19 | 0 | 28.58 | 28.58 | 0 | |
| 214280 | 27.44 | 27.44 | 0 | 28.1 | 28.1 | 0 | 28.26 | 28.26 | 0 | 28.32 | 28.32 | 0 | 28.6 | 28.6 | 0 | |
| 214290 | 27.47 | 27.47 | 0 | 28.49 | 28.49 | 0 | 28.85 | 28.85 | 0 | 29 | 29 | 0 | 29.5 | 29.5 | 0 | |
| 214300 | 27.71 | 27.71 | 0 | 28.55 | 28.55 | 0 | 28.92 | 28.92 | 0 | 29.02 | 29.02 | 0 | 29.42 | 29.42 | 0 | |
| 214310 | 28.94 | 28.94 | 0 | 29.09 | 29.09 | 0 | 29.17 | 29.17 | 0 | 29.22 | 29.22 | 0 | 29.49 | 29.49 | 0 | |
| 214320 | 25.73 | 25.73 | 0 | 27.19 | 27.19 | 0 | 27.68 | 27.68 | 0 | 27.91 | 27.91 | 0 | 28.8 | 28.8 | 0 | |
| | | | | | | | | | | | | | | | | |

Summary of Corrected and Revised Stages for Bridge

| Node | 2.33YR24HR | | | 25YR24HR | | | 50YR24HR | | | 100YR24HR | | | 500YR24HR | | | Notes |
|--------|--------------------------------|---------------------|-----------------|--------------------------------|---------------------|-----------------|--------------------------------|---------------------|-----------------|--------------------------------|---------------------|-----------------|--------------------------------|---------------------|-----------------|-------|
| | Corrected Effective Stage (ft) | Proposed Stage (ft) | Difference (ft) | Corrected Effective Stage (ft) | Proposed Stage (ft) | Difference (ft) | Corrected Effective Stage (ft) | Proposed Stage (ft) | Difference (ft) | Corrected Effective Stage (ft) | Proposed Stage (ft) | Difference (ft) | Corrected Effective Stage (ft) | Proposed Stage (ft) | Difference (ft) | |
| 214380 | 27.97 | 27.97 | 0 | 28.44 | 28.44 | 0 | 28.66 | 28.66 | 0 | 28.75 | 28.75 | 0 | 29.15 | 29.15 | 0 | |
| 214390 | 27.99 | 27.99 | 0 | 28.48 | 28.48 | 0 | 28.66 | 28.66 | 0 | 28.74 | 28.74 | 0 | 29.14 | 29.14 | 0 | |
| 214400 | 28.02 | 28.02 | 0 | 28.49 | 28.49 | 0 | 28.66 | 28.66 | 0 | 28.74 | 28.74 | 0 | 29.14 | 29.14 | 0 | |
| 214410 | 27.57 | 27.57 | 0 | 28.24 | 28.24 | 0 | 28.53 | 28.53 | 0 | 28.65 | 28.65 | 0 | 29.17 | 29.17 | 0 | |
| 214420 | 27.65 | 27.65 | 0 | 28.25 | 28.25 | 0 | 28.53 | 28.53 | 0 | 28.66 | 28.66 | 0 | 29.18 | 29.18 | 0 | |
| 214430 | 27.66 | 27.66 | 0 | 28.28 | 28.28 | 0 | 28.56 | 28.56 | 0 | 28.7 | 28.7 | 0 | 29.38 | 29.38 | 0 | |
| 214440 | 30.83 | 30.83 | 0 | 32.22 | 32.22 | 0 | 32.92 | 32.92 | 0 | 33.08 | 33.08 | 0 | 33.49 | 33.49 | 0 | |
| 214450 | 32.67 | 32.67 | 0 | 33.09 | 33.09 | 0 | 33.24 | 33.24 | 0 | 33.3 | 33.3 | 0 | 33.6 | 33.6 | 0 | |
| 214455 | 24.95 | 24.95 | 0 | 25.67 | 25.67 | 0 | 26.02 | 26.02 | 0 | 26.18 | 26.18 | 0 | 27.15 | 27.15 | 0 | |
| 214460 | 24.96 | 24.96 | 0 | 25.68 | 25.68 | 0 | 26.04 | 26.04 | 0 | 26.2 | 26.2 | 0 | 27.15 | 27.15 | 0 | |
| 214500 | 24.3 | 24.3 | 0 | 25.39 | 25.39 | 0 | 25.94 | 25.94 | 0 | 26.19 | 26.19 | 0 | 27.27 | 27.27 | 0 | |
| 214510 | 24.3 | 24.3 | 0 | 25.39 | 25.39 | 0 | 25.95 | 25.95 | 0 | 26.2 | 26.2 | 0 | 27.28 | 27.28 | 0 | |
| 214520 | 25.4 | 25.4 | 0 | 26.2 | 26.2 | 0 | 26.62 | 26.62 | 0 | 26.78 | 26.78 | 0 | 27.6 | 27.6 | 0 | |
| 214530 | 29.37 | 29.37 | 0 | 29.83 | 29.83 | 0 | 30.07 | 30.07 | 0 | 30.14 | 30.14 | 0 | 30.49 | 30.49 | 0 | |
| 214540 | 29.41 | 29.41 | 0 | 29.9 | 29.9 | 0 | 30.16 | 30.16 | 0 | 30.25 | 30.25 | 0 | 30.63 | 30.63 | 0 | |
| 214550 | 29.6 | 29.6 | 0 | 30.41 | 30.41 | 0 | 30.88 | 30.88 | 0 | 31.01 | 31.01 | 0 | 31.49 | 31.49 | 0 | |
| 214560 | 29.61 | 29.61 | 0 | 30.47 | 30.47 | 0 | 31 | 31 | 0 | 31.15 | 31.15 | 0 | 31.72 | 31.72 | 0 | |
| 214570 | 29.64 | 29.64 | 0 | 30.6 | 30.6 | 0 | 31.25 | 31.25 | 0 | 31.45 | 31.45 | 0 | 32.2 | 32.2 | 0 | |
| 214580 | 29.64 | 29.64 | 0 | 30.63 | 30.63 | 0 | 31.3 | 31.3 | 0 | 31.53 | 31.53 | 0 | 32.43 | 32.43 | 0 | |
| 214590 | 29.65 | 29.65 | 0 | 31.04 | 31.04 | 0 | 31.52 | 31.52 | 0 | 31.74 | 31.74 | 0 | 32.65 | 32.65 | 0 | |
| 214600 | 29.66 | 29.66 | 0 | 31.06 | 31.06 | 0 | 31.58 | 31.58 | 0 | 31.82 | 31.82 | 0 | 32.77 | 32.77 | 0 | |
| 214610 | 31.7 | 31.7 | 0 | 32.39 | 32.39 | 0 | 32.72 | 32.72 | 0 | 32.87 | 32.87 | 0 | 33.61 | 33.61 | 0 | |
| 214620 | 31.24 | 31.24 | 0 | 32.25 | 32.25 | 0 | 32.67 | 32.67 | 0 | 32.84 | 32.84 | 0 | 33.59 | 33.59 | 0 | |
| 214630 | 34.79 | 34.79 | 0 | 35.18 | 35.18 | 0 | 35.38 | 35.38 | 0 | 35.47 | 35.47 | 0 | 35.89 | 35.89 | 0 | |
| 214640 | 34.87 | 34.87 | 0 | 35.53 | 35.53 | 0 | 35.97 | 35.97 | 0 | 36.21 | 36.21 | 0 | 37.59 | 37.59 | 0 | |
| 214650 | 34.9 | 34.9 | 0 | 35.9 | 35.9 | 0 | 36.55 | 36.55 | 0 | 36.94 | 36.94 | 0 | 38.99 | 38.99 | 0 | |
| 214660 | 38.61 | 38.61 | 0 | 39.81 | 39.81 | 0 | 40.32 | 40.32 | 0 | 40.6 | 40.6 | 0 | 42.06 | 42.06 | 0 | |
| 214670 | 38.93 | 38.93 | 0 | 41.1 | 41.1 | 0 | 42.44 | 42.44 | 0 | 43.41 | 43.41 | 0 | 46.36 | 46.36 | 0 | |
| 214680 | 44.27 | 44.27 | 0 | 45.12 | 45.12 | 0 | 45.54 | 45.54 | 0 | 45.74 | 45.74 | 0 | 46.73 | 46.73 | 0 | |
| 214690 | 45.33 | 45.33 | 0 | 46.37 | 46.37 | 0 | 46.64 | 46.64 | 0 | 46.77 | 46.77 | 0 | 47.28 | 47.28 | 0 | |
| 214700 | 45.33 | 45.33 | 0 | 46.37 | 46.37 | 0 | 46.64 | 46.64 | 0 | 46.77 | 46.77 | 0 | 47.28 | 47.28 | 0 | |
| 214710 | 45.39 | 45.39 | 0 | 46.51 | 46.51 | 0 | 47.23 | 47.23 | 0 | 47.8 | 47.8 | 0 | 51.05 | 51.05 | 0 | |
| 214720 | 29.68 | 29.68 | 0 | 30.61 | 30.61 | 0 | 31.26 | 31.26 | 0 | 31.46 | 31.46 | 0 | 32.21 | 32.21 | 0 | |
| 214730 | 31.04 | 31.04 | 0 | 32.01 | 32.01 | 0 | 32.5 | 32.5 | 0 | 32.68 | 32.68 | 0 | 33.42 | 33.42 | 0 | |
| 214740 | 31.05 | 31.05 | 0 | 31.84 | 31.84 | 0 | 32.62 | 32.62 | 0 | 32.97 | 32.97 | 0 | 34.47 | 34.47 | 0 | |
| 214750 | 30.9 | 30.9 | 0 | 31.59 | 31.59 | 0 | 32.04 | 32.04 | 0 | 32.22 | 32.22 | 0 | 32.97 | 32.97 | 0 | |
| 214760 | 30.88 | 30.88 | 0 | 31.57 | 31.57 | 0 | 32.03 | 32.03 | 0 | 32.21 | 32.21 | 0 | 32.97 | 32.97 | 0 | |
| 214770 | 30.88 | 30.88 | 0 | 31.56 | 31.56 | 0 | 32.02 | 32.02 | 0 | 32.19 | 32.19 | 0 | 32.93 | 32.93 | 0 | |
| 214780 | 30.88 | 30.88 | 0 | 31.55 | 31.55 | 0 | 31.96 | 31.96 | 0 | 32.12 | 32.12 | 0 | 32.78 | 32.78 | 0 | |
| 214790 | 29.65 | 29.65 | 0 | 31.16 | 31.16 | 0 | 31.56 | 31.56 | 0 | 31.77 | 31.77 | 0 | 32.65 | 32.65 | 0 | |
| 214800 | 29.65 | 29.65 | 0 | 31.17 | 31.17 | 0 | 31.56 | 31.56 | 0 | 31.77 | 31.77 | 0 | 32.65 | 32.65 | 0 | |
| 214810 | 29.89 | 29.89 | 0 | 31.65 | 31.65 | 0 | 31.96 | 31.96 | 0 | 32.07 | 32.07 | 0 | 32.67 | 32.67 | 0 | |
| 214820 | 34.97 | 34.97 | 0 | 35.16 | 35.16 | 0 | 35.26 | 35.26 | 0 | 35.32 | 35.32 | 0 | 35.62 | 35.62 | 0 | |
| 214830 | 38.28 | 38.28 | 0 | 38.44 | 38.44 | 0 | 38.51 | 38.51 | 0 | 38.55 | 38.55 | 0 | 38.81 | 38.81 | 0 | |
| 214840 | 39.06 | 39.06 | 0 | 39.24 | 39.24 | 0 | 39.3 | 39.3 | 0 | 39.33 | 39.33 | 0 | 39.44 | 39.44 | 0 | |
| 214850 | 37.55 | 37.55 | 0 | 38.15 | 38.15 | 0 | 39 | 39 | 0 | 39.37 | 39.37 | 0 | 40.88 | 40.88 | 0 | |
| 214860 | 40.74 | 40.74 | 0 | 41.41 | 41.41 | 0 | 41.58 | 41.58 | 0 | 41.64 | 41.64 | 0 | 41.86 | 41.86 | 0 | |
| 214870 | 38.62 | 38.62 | 0 | 39.78 | 39.78 | 0 | 39.99 | 39.99 | 0 | 40.06 | 40.06 | 0 | 40.32 | 40.32 | 0 | |
| 214880 | 38.62 | 38.62 | 0 | 39.78 | 39.78 | 0 | 39.98 | 39.98 | 0 | 40.05 | 40.05 | 0 | 40.31 | 40.31 | 0 | |
| 214890 | 43.89 | 43.89 | 0 | 44.53 | 44.53 | 0 | 44.76 | 44.76 | 0 | 44.85 | 44.85 | 0 | 45.3 | 45.3 | 0 | |
| 214900 | 43.97 | 43.97 | 0 | 44.54 | 44.54 | 0 | 44.76 | 44.76 | 0 | 44.85 | 44.85 | 0 | 45.3 | 45.3 | 0 | |
| 214910 | 44.42 | 44.42 | 0 | 45.12 | 45.12 | 0 | 45.54 | 45.54 | 0 | 45.74 | 45.74 | 0 | 46.73 | 46.73 | 0 | |
| 214920 | 49.36 | 49.36 | 0 | 49.97 | 49.97 | 0 | 50.24 | 50.24 | 0 | 50.35 | 50.35 | 0 | 50.78 | 50.78 | 0 | |
| 214930 | 34.03 | 34.03 | 0 | 35.16 | 35.16 | 0 | 35.88 | 35.88 | 0 | 36.28 | 36.28 | 0 | 39.98 | 39.98 | 0 | |
| 214940 | 44.44 | 44.44 | 0 | 45.17 | 45.17 | 0 | 46.94 | 46.94 | 0 | 48.21 | 48.21 | 0 | 50.01 | 50.01 | 0 | |
| 214950 | 46.63 | 46.63 | 0 | 48.63 | 48.63 | 0 | 48.91 | 48.91 | 0 | 49.04 | 49.04 | 0 | 50.02 | 50.02 | 0 | |
| 214960 | 46.64 | 46.64 | 0 | 48.75 | 48.75 | 0 | 49.51 | 49.51 | 0 | 49.91 | 49.91 | 0 | 51.08 | 51.08 | 0 | |
| 214970 | 48.49 | 48.49 | 0 | 49.92 | 49.92 | 0 | 50.3 | 50.3 | 0 | 50.41 | 50.41 | 0 | 51.09 | 51.09 | 0 | |
| 214980 | 46.64 | 46.64 | 0 | 48.56 | 48.56 | 0 | 48.75 | 48.75 | 0 | 48.81 | 48.81 | 0 | 49.17 | 49.17 | 0 | |
| 214990 | 46.67 | 46.67 | 0 | 48.41 | 48.41 | 0 | 48.6 | 48.6 | 0 | 48.66 | 48.66 | 0 | 49.02 | 49.02 | 0 | |
| 215000 | 44.27 | 44.27 | 0 | 45.12 | 45.12 | 0 | 45.54 | 45.54 | 0 | 45.74 | 45.74 | 0 | 46.73 | 46.73 | 0 | |
| 215010 | 44.27 | 44.27 | 0 | 45.12 | 45.12 | 0 | 45.54 | 45.54 | 0 | 45.74 | 45.74 | 0 | 46.73 | 46.73 | 0 | |
| 215020 | 45.79 | 45.79 | 0 | 46.53 | 46.53 | 0 | 47.08 | 47.08 | 0 | 47.4 | 47.4 | 0 | 48.8 | 48.8 | 0 | |
| 215030 | 47.82 | 47.82 | 0 | 49.26 | 49.26 | 0 | 49.7 | 49.7 | 0 | 49.85 | 49.85 | 0 | 50.52 | 50.52 | 0 | |
| 215040 | 47.84 | 47.84 | 0 | 49.34 | 49.34 | 0 | 49.82 | 49.82 | 0 | 50.01 | 50.01 | 0 | 50.9 | 50.9 | 0 | |
| 215050 | 49.36 | 49.36 | 0 | 49.49 | 49.49 | 0 | 49.83 | 49.83 | 0 | 50.02 | 50.02 | 0 | 50.91 | 50.91 | 0 | |
| 215060 | 49.64 | 49.64 | 0 | 49.81 | 49.81 | 0 | 49.9 | 49.9 | 0 | 49.97 | 49.97 | 0 | 50.54 | 50.54 | 0 | |
| 215100 | 24.89 | 24.89 | 0 | 26.25 | 26.25 | 0 | 26.81 | 26.81 | 0 | 27.09 | 27.09 | 0 | 28.27 | 28.27 | 0 | |
| 215110 | 24.89 | 24.89 | 0 | 26.25 | 26.25 | 0 | 26.81 | 26.81 | 0 | 27.09 | 27.09 | 0 | 28.28 | 28.28 | 0 | |
| 215120 | 24.89 | 24.89 | 0 | 26.25 | 26.25 | 0 | 26.81 | 26.81 | 0 | 27.09 | 27.09 | 0 | 28.28 | 28.28 | 0 | |
| 215130 | 24.89 | 24.89 | 0 | 26.25 | 26.25 | 0 | 26.81 | 26.81 | 0 | 27.09 | 27.09 | 0 | 28.28 | 28.28 | 0 | |
| 215140 | 24.89 | 24.89 | 0 | 26.25 | 26.25 | 0 | 26.81 | 26.81 | 0 | 27.09 | 27.09 | 0 | 28.29 | 28.29 | 0 | |
| 215150 | 27.58 | 27.58 | 0 | 28.12 | 28.12 | 0 | 28.33 | 28.33 | 0 | 28.42 | 28.42 | 0 | 28.8 | 28.8 | 0 | |
| 215160 | 26.08 | 26.08 | 0 | 26.66 | 26.66 | 0 | 26.91 | 26.91 | 0 | 27.1 | 27.1 | 0 | 28.4 | 28.4 | 0 | |
| 215190 | 24.89 | 24.89 | 0 | 26.28 | 26.28 | 0 | 26.87 | 26.87 | 0 | 27.16 | 27.16 | 0 | 28.28 | 28.28 | 0 | |
| 215200 | 24.89 | 24.89 | 0 | 26.28 | 26.28 | 0 | 26.87 | 26.87 | 0 | 27.16 | 27.16 | 0 | 28.28 | 28.28 | 0 | |
| 215210 | 24.89 | 24.89 | 0 | 26.28 | 26.28 | 0 | 26.87 | 26.87 | 0 | 27.16 | 27.16 | 0 | 28.28 | 28.28 | 0 | |
| 215220 | 25.02 | 25.02 | 0 | 26.36 | 26.36 | 0 | 26.9 | 26.9 | 0 | 27.17 | 27.17 | 0 | 28.29 | 28.29 | 0 | |
| 215230 | 28.97 | 28.97 | 0 | 29.64 | 29.64 | 0 | 30 | 30 | 0 | 30.18 | 30.18 | 0 | 31.02 | 31.02 | 0 | |
| 215240 | 28.97 | 28.97 | 0 | 29.64 | 29.64 | 0 | 30 | 30 | 0 | 30.18 | 30.18 | 0 | 31.02 | 31.02 | 0 | |
| 215250 | 28.96 | 28.96 | 0 | 29.64 | 29.64 | 0 | 30 | 30 | 0 | 30.18 | 30.18 | 0 | 31.02 | 31.02 | 0 | |
| 215260 | 26.39 | 26.39 | 0 | 26.66 | 26.66 | 0 | 26.91 | 26.91 | 0 | 27.1 | 27.1 | 0 | 28.4 | 28.4 | 0 | |
| 215270 | 28.37 | 28.37 | 0 | 28.53 | 28.53 | 0 | 28.65 | 28.65 | 0 | 28.71 | 28.71 | 0 | 29.01 | 29.01 | 0 | |
| | | | | | | | | | | | | | | | | |

Summary of Corrected and Revised Stages for Bridge

| Node | 2.33YR24HR | | | 25YR24HR | | | 50YR24HR | | | 100YR24HR | | | 500YR24HR | | | Notes |
|--------|--------------------------------|---------------------|-----------------|--------------------------------|---------------------|-----------------|--------------------------------|---------------------|-----------------|--------------------------------|---------------------|-----------------|--------------------------------|---------------------|-----------------|-------|
| | Corrected Effective Stage (ft) | Proposed Stage (ft) | Difference (ft) | Corrected Effective Stage (ft) | Proposed Stage (ft) | Difference (ft) | Corrected Effective Stage (ft) | Proposed Stage (ft) | Difference (ft) | Corrected Effective Stage (ft) | Proposed Stage (ft) | Difference (ft) | Corrected Effective Stage (ft) | Proposed Stage (ft) | Difference (ft) | |
| 215330 | 25.39 | 25.39 | 0 | 26.54 | 26.54 | 0 | 27.03 | 27.03 | 0 | 27.32 | 27.32 | 0 | 28.51 | 28.51 | 0 | |
| 215400 | 28.33 | 28.33 | 0 | 28.83 | 28.83 | 0 | 29.09 | 29.09 | 0 | 29.19 | 29.19 | 0 | 29.6 | 29.6 | 0 | |
| 215410 | 28.33 | 28.33 | 0 | 28.83 | 28.83 | 0 | 29.09 | 29.09 | 0 | 29.19 | 29.19 | 0 | 29.6 | 29.6 | 0 | |
| 215420 | 28.39 | 28.39 | 0 | 29.12 | 29.12 | 0 | 29.52 | 29.52 | 0 | 29.72 | 29.72 | 0 | 30.79 | 30.79 | 0 | |
| 215430 | 28.88 | 28.88 | 0 | 29.52 | 29.52 | 0 | 29.87 | 29.87 | 0 | 30.05 | 30.05 | 0 | 30.89 | 30.89 | 0 | |
| 215440 | 26.45 | 26.45 | 0 | 27.9 | 27.9 | 0 | 28.48 | 28.48 | 0 | 28.74 | 28.74 | 0 | 29.82 | 29.82 | 0 | |
| 215450 | 27.19 | 27.19 | 0 | 28.37 | 28.37 | 0 | 28.92 | 28.92 | 0 | 29.08 | 29.08 | 0 | 29.98 | 29.98 | 0 | |
| 215460 | 27.79 | 27.79 | 0 | 28.64 | 28.64 | 0 | 29.1 | 29.1 | 0 | 29.32 | 29.32 | 0 | 30.37 | 30.37 | 0 | |
| 215500 | 26.61 | 26.61 | 0 | 27.9 | 27.9 | 0 | 28.47 | 28.47 | 0 | 28.73 | 28.73 | 0 | 29.7 | 29.7 | 0 | |
| 215510 | 27.67 | 27.67 | 0 | 28.6 | 28.6 | 0 | 29.01 | 29.01 | 0 | 29.18 | 29.18 | 0 | 29.96 | 29.96 | 0 | |
| 215520 | 28.27 | 28.27 | 0 | 30.65 | 30.65 | 0 | 31.78 | 31.78 | 0 | 32.28 | 32.28 | 0 | 34.01 | 34.01 | 0 | |
| 215530 | 28.28 | 28.28 | 0 | 30.74 | 30.74 | 0 | 31.89 | 31.89 | 0 | 32.39 | 32.39 | 0 | 34.14 | 34.14 | 0 | |
| 215540 | 28.83 | 28.83 | 0 | 31.65 | 31.65 | 0 | 32.29 | 32.29 | 0 | 32.54 | 32.54 | 0 | 34.15 | 34.15 | 0 | |
| 215550 | 28.86 | 28.86 | 0 | 31.77 | 31.77 | 0 | 32.61 | 32.61 | 0 | 32.96 | 32.96 | 0 | 34.47 | 34.47 | 0 | |
| 215560 | 32.82 | 32.82 | 0 | 33.13 | 33.13 | 0 | 33.61 | 33.61 | 0 | 34.02 | 34.02 | 0 | 36.84 | 36.84 | 0 | |
| 215570 | 39.31 | 39.31 | 0 | 39.98 | 39.98 | 0 | 39.94 | 39.94 | 0 | 39.74 | 39.74 | 0 | 39.84 | 39.84 | 0 | |
| 215580 | 49.21 | 49.21 | 0 | 51.54 | 51.54 | 0 | 52.35 | 52.35 | 0 | 52.64 | 52.64 | 0 | 53.67 | 53.67 | 0 | |
| 215590 | 50.81 | 50.81 | 0 | 51.83 | 51.83 | 0 | 52.41 | 52.41 | 0 | 52.68 | 52.68 | 0 | 53.68 | 53.68 | 0 | |
| 215600 | 50.87 | 50.87 | 0 | 52.14 | 52.14 | 0 | 52.81 | 52.81 | 0 | 53.14 | 53.14 | 0 | 54.6 | 54.6 | 0 | |
| 215610 | 38.14 | 38.14 | 0 | 39.25 | 39.25 | 0 | 39.35 | 39.35 | 0 | 39.4 | 39.4 | 0 | 39.52 | 39.52 | 0 | |
| 215620 | 39.2 | 39.2 | 0 | 39.25 | 39.25 | 0 | 39.41 | 39.41 | 0 | 39.53 | 39.53 | 0 | 39.89 | 39.89 | 0 | |
| 215630 | 39.9 | 39.9 | 0 | 40.62 | 40.62 | 0 | 40.96 | 40.96 | 0 | 41.12 | 41.12 | 0 | 41.86 | 41.86 | 0 | |
| 215640 | 38.33 | 38.33 | 0 | 38.62 | 38.62 | 0 | 38.74 | 38.74 | 0 | 38.79 | 38.79 | 0 | 39 | 39 | 0 | |
| 215650 | 39.74 | 39.74 | 0 | 40.48 | 40.48 | 0 | 40.87 | 40.87 | 0 | 41.06 | 41.06 | 0 | 41.87 | 41.87 | 0 | |
| 215660 | 43.45 | 43.45 | 0 | 44.68 | 44.68 | 0 | 45.08 | 45.08 | 0 | 45.24 | 45.24 | 0 | 45.99 | 45.99 | 0 | |
| 215670 | 44.24 | 44.24 | 0 | 44.84 | 44.84 | 0 | 45.18 | 45.18 | 0 | 45.33 | 45.33 | 0 | 46.03 | 46.03 | 0 | |
| 215680 | 26.25 | 26.25 | 0 | 27.9 | 27.9 | 0 | 28.5 | 28.5 | 0 | 28.76 | 28.76 | 0 | 29.74 | 29.74 | 0 | |
| 215690 | 26.25 | 26.25 | 0 | 27.9 | 27.9 | 0 | 28.5 | 28.5 | 0 | 28.76 | 28.76 | 0 | 29.74 | 29.74 | 0 | |
| 215700 | 26.39 | 26.39 | 0 | 27.9 | 27.9 | 0 | 28.5 | 28.5 | 0 | 28.76 | 28.76 | 0 | 29.74 | 29.74 | 0 | |
| 215710 | 26.45 | 26.45 | 0 | 28.38 | 28.38 | 0 | 29.11 | 29.11 | 0 | 29.46 | 29.46 | 0 | 30.76 | 30.76 | 0 | |
| 215720 | 26.45 | 26.45 | 0 | 28.39 | 28.39 | 0 | 29.45 | 29.45 | 0 | 29.83 | 29.83 | 0 | 30.76 | 30.76 | 0 | |
| 215730 | 27.95 | 27.95 | 0 | 29.6 | 29.6 | 0 | 30.08 | 30.08 | 0 | 30.24 | 30.24 | 0 | 30.86 | 30.86 | 0 | |
| 215740 | 28.28 | 28.28 | 0 | 28.74 | 28.74 | 0 | 29.42 | 29.42 | 0 | 29.74 | 29.74 | 0 | 30.95 | 30.95 | 0 | |
| 215750 | 28.86 | 28.86 | 0 | 29.17 | 29.17 | 0 | 29.42 | 29.42 | 0 | 29.73 | 29.73 | 0 | 30.93 | 30.93 | 0 | |
| 215800 | 27.42 | 27.42 | 0 | 29.25 | 29.25 | 0 | 29.9 | 29.9 | 0 | 30.18 | 30.18 | 0 | 31.32 | 31.32 | 0 | |
| 215810 | 28.45 | 28.45 | 0 | 29.49 | 29.49 | 0 | 30.07 | 30.07 | 0 | 30.32 | 30.32 | 0 | 31.39 | 31.39 | 0 | |
| 215820 | 28.63 | 28.63 | 0 | 29.53 | 29.53 | 0 | 30.09 | 30.09 | 0 | 30.34 | 30.34 | 0 | 31.4 | 31.4 | 0 | |
| 215830 | 29.01 | 29.01 | 0 | 29.9 | 29.9 | 0 | 30.32 | 30.32 | 0 | 30.55 | 30.55 | 0 | 31.51 | 31.51 | 0 | |
| 215840 | 29.18 | 29.18 | 0 | 30.33 | 30.33 | 0 | 30.88 | 30.88 | 0 | 31.13 | 31.13 | 0 | 32.2 | 32.2 | 0 | |
| 215850 | 29.23 | 29.23 | 0 | 30.37 | 30.37 | 0 | 30.91 | 30.91 | 0 | 31.16 | 31.16 | 0 | 32.21 | 32.21 | 0 | |
| 215860 | 29.25 | 29.25 | 0 | 30.41 | 30.41 | 0 | 30.96 | 30.96 | 0 | 31.21 | 31.21 | 0 | 32.28 | 32.28 | 0 | |
| 215870 | 29.25 | 29.25 | 0 | 30.41 | 30.41 | 0 | 30.96 | 30.96 | 0 | 31.22 | 31.22 | 0 | 32.28 | 32.28 | 0 | |
| 215880 | 29.25 | 29.25 | 0 | 30.41 | 30.41 | 0 | 30.96 | 30.96 | 0 | 31.22 | 31.22 | 0 | 32.29 | 32.29 | 0 | |
| 215890 | 29.26 | 29.26 | 0 | 30.41 | 30.41 | 0 | 30.96 | 30.96 | 0 | 31.22 | 31.22 | 0 | 32.29 | 32.29 | 0 | |
| 215900 | 29.27 | 29.27 | 0 | 30.41 | 30.41 | 0 | 30.96 | 30.96 | 0 | 31.22 | 31.22 | 0 | 32.31 | 32.31 | 0 | |
| 215910 | 29.27 | 29.27 | 0 | 30.41 | 30.41 | 0 | 30.96 | 30.96 | 0 | 31.22 | 31.22 | 0 | 32.31 | 32.31 | 0 | |
| 215920 | 29.28 | 29.28 | 0 | 30.41 | 30.41 | 0 | 30.96 | 30.96 | 0 | 31.22 | 31.22 | 0 | 32.32 | 32.32 | 0 | |
| 215930 | 29.28 | 29.28 | 0 | 30.41 | 30.41 | 0 | 30.96 | 30.96 | 0 | 31.22 | 31.22 | 0 | 32.32 | 32.32 | 0 | |
| 215940 | 29.28 | 29.28 | 0 | 30.41 | 30.41 | 0 | 30.96 | 30.96 | 0 | 31.22 | 31.22 | 0 | 32.32 | 32.32 | 0 | |
| 215950 | 29.29 | 29.29 | 0 | 30.41 | 30.41 | 0 | 30.96 | 30.96 | 0 | 31.22 | 31.22 | 0 | 32.32 | 32.32 | 0 | |
| 215960 | 29.29 | 29.29 | 0 | 30.41 | 30.41 | 0 | 30.95 | 30.95 | 0 | 31.22 | 31.22 | 0 | 32.32 | 32.32 | 0 | |
| 215970 | 29.31 | 29.31 | 0 | 30.48 | 30.48 | 0 | 31 | 31 | 0 | 31.26 | 31.26 | 0 | 32.35 | 32.35 | 0 | |
| 215980 | 29.31 | 29.31 | 0 | 30.5 | 30.5 | 0 | 31.04 | 31.04 | 0 | 31.29 | 31.29 | 0 | 32.44 | 32.44 | 0 | |
| 215990 | 29.36 | 29.36 | 0 | 30.62 | 30.62 | 0 | 31.16 | 31.16 | 0 | 31.4 | 31.4 | 0 | 32.56 | 32.56 | 0 | |
| 216000 | 29.36 | 29.36 | 0 | 30.65 | 30.65 | 0 | 31.2 | 31.2 | 0 | 31.44 | 31.44 | 0 | 32.6 | 32.6 | 0 | |
| 216010 | 29.38 | 29.38 | 0 | 30.8 | 30.8 | 0 | 31.38 | 31.38 | 0 | 31.62 | 31.62 | 0 | 32.74 | 32.74 | 0 | |
| 216020 | 29.39 | 29.39 | 0 | 30.95 | 30.95 | 0 | 31.61 | 31.61 | 0 | 31.85 | 31.85 | 0 | 32.89 | 32.89 | 0 | |
| 216030 | 29.41 | 29.41 | 0 | 30.99 | 30.99 | 0 | 31.66 | 31.66 | 0 | 31.89 | 31.89 | 0 | 32.92 | 32.92 | 0 | |
| 216040 | 29.5 | 29.5 | 0 | 31.7 | 31.7 | 0 | 32.19 | 32.19 | 0 | 32.37 | 32.37 | 0 | 33.2 | 33.2 | 0 | |
| 216050 | 30.06 | 30.06 | 0 | 32.04 | 32.04 | 0 | 32.58 | 32.58 | 0 | 32.78 | 32.78 | 0 | 33.61 | 33.61 | 0 | |
| 216060 | 30.21 | 30.21 | 0 | 32.12 | 32.12 | 0 | 32.66 | 32.66 | 0 | 32.87 | 32.87 | 0 | 33.7 | 33.7 | 0 | |
| 216070 | 31.44 | 31.44 | 0 | 32.96 | 32.96 | 0 | 33.58 | 33.58 | 0 | 33.83 | 33.83 | 0 | 34.84 | 34.84 | 0 | |
| 216080 | 31.51 | 31.51 | 0 | 33.48 | 33.48 | 0 | 34.67 | 34.67 | 0 | 34.95 | 34.95 | 0 | 35.93 | 35.93 | 0 | |
| 216090 | 31.64 | 31.64 | 0 | 32.94 | 32.94 | 0 | 33.43 | 33.43 | 0 | 33.51 | 33.51 | 0 | 35.42 | 35.42 | 0 | |
| 216100 | 30.33 | 30.33 | 0 | 32.25 | 32.25 | 0 | 33.1 | 33.1 | 0 | 33.49 | 33.49 | 0 | 35.48 | 35.48 | 0 | |
| 216110 | 31.82 | 31.82 | 0 | 32.77 | 32.77 | 0 | 33.39 | 33.39 | 0 | 33.68 | 33.68 | 0 | 35.48 | 35.48 | 0 | |
| 216120 | 31.93 | 31.93 | 0 | 32.77 | 32.77 | 0 | 33.6 | 33.6 | 0 | 33.99 | 33.99 | 0 | 36.61 | 36.61 | 0 | |
| 216130 | 29.72 | 29.72 | 0 | 33.05 | 33.05 | 0 | 34.24 | 34.24 | 0 | 35.07 | 35.07 | 0 | 36.73 | 36.73 | 0 | |
| 216140 | 29.72 | 29.72 | 0 | 33.05 | 33.05 | 0 | 35.15 | 35.15 | 0 | 36.2 | 36.2 | 0 | 38.27 | 38.27 | 0 | |
| 216150 | 29.71 | 29.71 | 0 | 32.98 | 32.98 | 0 | 35.79 | 35.79 | 0 | 36.68 | 36.68 | 0 | 38.48 | 38.48 | 0 | |
| 216160 | 30.07 | 30.07 | 0 | 30.49 | 30.49 | 0 | 30.67 | 30.67 | 0 | 30.75 | 30.75 | 0 | 31.39 | 31.39 | 0 | |
| 216170 | 28.8 | 28.8 | 0 | 29.9 | 29.9 | 0 | 30.33 | 30.33 | 0 | 30.52 | 30.52 | 0 | 31.4 | 31.4 | 0 | |
| 216180 | 29.08 | 29.08 | 0 | 29.93 | 29.93 | 0 | 30.34 | 30.34 | 0 | 30.53 | 30.53 | 0 | 31.4 | 31.4 | 0 | |
| 216190 | 29.08 | 29.08 | 0 | 29.94 | 29.94 | 0 | 30.35 | 30.35 | 0 | 30.53 | 30.53 | 0 | 31.4 | 31.4 | 0 | |
| 216200 | 28.81 | 28.81 | 0 | 29.77 | 29.77 | 0 | 30.26 | 30.26 | 0 | 30.48 | 30.48 | 0 | 31.5 | 31.5 | 0 | |
| 216210 | 28.82 | 28.82 | 0 | 29.79 | 29.79 | 0 | 30.28 | 30.28 | 0 | 30.5 | 30.5 | 0 | 31.51 | 31.51 | 0 | |
| 216220 | 29.05 | 29.05 | 0 | 29.85 | 29.85 | 0 | 30.3 | 30.3 | 0 | 30.51 | 30.51 | 0 | 31.51 | 31.51 | 0 | |
| 216230 | 28.81 | 28.81 | 0 | 29.77 | 29.77 | 0 | 30.26 | 30.26 | 0 | 30.48 | 30.48 | 0 | 31.5 | 31.5 | 0 | |
| 216240 | 29.34 | 29.34 | 0 | 30.09 | 30.09 | 0 | 30.51 | 30.51 | 0 | 30.68 | 30.68 | 0 | 31.51 | 31.51 | 0 | |
| 216250 | 29.82 | 29.82 | 0 | 30.4 | 30.4 | 0 | 30.68 | 30.68 | 0 | 30.82 | 30.82 | 0 | 31.51 | 31.51 | 0 | |
| 216260 | 29.38 | 29.38 | 0 | 30.37 | 30.37 | 0 | 30.91 | 30.91 | 0 | 31.16 | 31.16 | 0 | 32.21 | 32.21 | 0 | |
| 216270 | 29.23 | 29.23 | 0 | 30.37 | 30.37 | 0 | 30.91 | 30.91 | 0 | 31.16 | 31.16 | 0 | 32.21 | 32.21 | 0 | |
| 216280 | 29.25 | 29.25 | 0 | 30.41 | 30.41 | 0 | 30.96 | 30.96 | 0 | 31.21 | 31.21 | 0 | 32.18 | 32.18 | 0 | |

Summary of Corrected and Revised Stages for Bridge

| Node | 2.33YR24HR | | | 25YR24HR | | | 50YR24HR | | | 100YR24HR | | | 500YR24HR | | | Notes |
|--------|--------------------------------|---------------------|-----------------|--------------------------------|---------------------|-----------------|--------------------------------|---------------------|-----------------|--------------------------------|---------------------|-----------------|--------------------------------|---------------------|-----------------|-------|
| | Corrected Effective Stage (ft) | Proposed Stage (ft) | Difference (ft) | Corrected Effective Stage (ft) | Proposed Stage (ft) | Difference (ft) | Corrected Effective Stage (ft) | Proposed Stage (ft) | Difference (ft) | Corrected Effective Stage (ft) | Proposed Stage (ft) | Difference (ft) | Corrected Effective Stage (ft) | Proposed Stage (ft) | Difference (ft) | |
| 216340 | 29.26 | 29.26 | 0 | 30.41 | 30.41 | 0 | 30.96 | 30.96 | 0 | 31.22 | 31.22 | 0 | 32.3 | 32.3 | 0 | |
| 216350 | 29.27 | 29.27 | 0 | 30.42 | 30.42 | 0 | 30.97 | 30.97 | 0 | 31.23 | 31.23 | 0 | 32.31 | 32.31 | 0 | |
| 216360 | 29.32 | 29.32 | 0 | 30.62 | 30.62 | 0 | 31.31 | 31.31 | 0 | 31.65 | 31.65 | 0 | 32.42 | 32.42 | 0 | |
| 216370 | 30.76 | 30.76 | 0 | 31.43 | 31.43 | 0 | 31.71 | 31.71 | 0 | 31.83 | 31.83 | 0 | 32.42 | 32.42 | 0 | |
| 216380 | 29.39 | 29.39 | 0 | 30.22 | 30.22 | 0 | 30.62 | 30.62 | 0 | 30.79 | 30.79 | 0 | 31.55 | 31.55 | 0 | |
| 216390 | 29.39 | 29.39 | 0 | 30.22 | 30.22 | 0 | 30.59 | 30.59 | 0 | 30.73 | 30.73 | 0 | 31.37 | 31.37 | 0 | |
| 216400 | 44.2 | 44.2 | 0 | 46.17 | 46.17 | 0 | 46.72 | 46.72 | 0 | 46.93 | 46.93 | 0 | 47.92 | 47.92 | 0 | |
| 216410 | 29.45 | 29.45 | 0 | 30.93 | 30.93 | 0 | 31.47 | 31.47 | 0 | 31.72 | 31.72 | 0 | 33.75 | 33.75 | 0 | |
| 216420 | 31.39 | 31.39 | 0 | 32.47 | 32.47 | 0 | 33 | 33 | 0 | 33.24 | 33.24 | 0 | 33.83 | 33.83 | 0 | |
| 216430 | 31.17 | 31.17 | 0 | 32.32 | 32.32 | 0 | 32.79 | 32.79 | 0 | 32.93 | 32.93 | 0 | 33.54 | 33.54 | 0 | |
| 216440 | 33.29 | 33.29 | 0 | 35.13 | 35.13 | 0 | 36.21 | 36.21 | 0 | 36.41 | 36.41 | 0 | 36.97 | 36.97 | 0 | |
| 216450 | 35.81 | 35.81 | 0 | 36.44 | 36.44 | 0 | 36.64 | 36.64 | 0 | 36.73 | 36.73 | 0 | 37.11 | 37.11 | 0 | |
| 216460 | 27.85 | 27.85 | 0 | 30.22 | 30.22 | 0 | 30.59 | 30.59 | 0 | 30.73 | 30.73 | 0 | 31.37 | 31.37 | 0 | |
| 216470 | 29.71 | 29.71 | 0 | 30.99 | 30.99 | 0 | 31.63 | 31.63 | 0 | 31.87 | 31.87 | 0 | 32.89 | 32.89 | 0 | |
| 216480 | 30.68 | 30.68 | 0 | 31.43 | 31.43 | 0 | 31.74 | 31.74 | 0 | 31.9 | 31.9 | 0 | 32.89 | 32.89 | 0 | |
| 216490 | 29.5 | 29.5 | 0 | 31.7 | 31.7 | 0 | 32.19 | 32.19 | 0 | 32.37 | 32.37 | 0 | 33.2 | 33.2 | 0 | |
| 216500 | 31.83 | 31.83 | 0 | 32.37 | 32.37 | 0 | 32.6 | 32.6 | 0 | 32.68 | 32.68 | 0 | 33.2 | 33.2 | 0 | |
| 216510 | 31.14 | 31.14 | 0 | 32.95 | 32.95 | 0 | 33.58 | 33.58 | 0 | 33.83 | 33.83 | 0 | 34.84 | 34.84 | 0 | |
| 216520 | 31.45 | 31.45 | 0 | 32.96 | 32.96 | 0 | 33.58 | 33.58 | 0 | 33.83 | 33.83 | 0 | 34.84 | 34.84 | 0 | |
| 216530 | 34.04 | 34.04 | 0 | 34.76 | 34.76 | 0 | 35.07 | 35.07 | 0 | 35.24 | 35.24 | 0 | 36.09 | 36.09 | 0 | |
| 216540 | 34.13 | 34.13 | 0 | 36.85 | 36.85 | 0 | 37.32 | 37.32 | 0 | 37.41 | 37.41 | 0 | 37.82 | 37.82 | 0 | |
| 216550 | 34.19 | 34.19 | 0 | 36.85 | 36.85 | 0 | 37.32 | 37.32 | 0 | 37.41 | 37.41 | 0 | 37.82 | 37.82 | 0 | |
| 216560 | 34.19 | 34.19 | 0 | 37.86 | 37.86 | 0 | 38.51 | 38.51 | 0 | 38.77 | 38.77 | 0 | 39.81 | 39.81 | 0 | |
| 216570 | 44.25 | 44.25 | 0 | 44.64 | 44.64 | 0 | 44.76 | 44.76 | 0 | 44.82 | 44.82 | 0 | 45.06 | 45.06 | 0 | |
| 216580 | 44.34 | 44.34 | 0 | 44.87 | 44.87 | 0 | 45.07 | 45.07 | 0 | 45.15 | 45.15 | 0 | 45.56 | 45.56 | 0 | |
| 216590 | 31.5 | 31.5 | 0 | 33.8 | 33.8 | 0 | 34.17 | 34.17 | 0 | 34.41 | 34.41 | 0 | 35.69 | 35.69 | 0 | |
| 216600 | 29.32 | 29.32 | 0 | 32.31 | 32.31 | 0 | 33.1 | 33.1 | 0 | 33.49 | 33.49 | 0 | 35.48 | 35.48 | 0 | |
| 216610 | 29.2 | 29.2 | 0 | 30.71 | 30.71 | 0 | 31.54 | 31.54 | 0 | 31.93 | 31.93 | 0 | 35.48 | 35.48 | 0 | |
| 216620 | 32.23 | 32.23 | 0 | 32.99 | 32.99 | 0 | 34.35 | 34.35 | 0 | 34.59 | 34.59 | 0 | 35.48 | 35.48 | 0 | |
| 216630 | 33.62 | 33.62 | 0 | 34.26 | 34.26 | 0 | 34.49 | 34.49 | 0 | 34.66 | 34.66 | 0 | 35.48 | 35.48 | 0 | |
| 216640 | 29.11 | 29.11 | 0 | 32.38 | 32.38 | 0 | 33.1 | 33.1 | 0 | 33.49 | 33.49 | 0 | 35.48 | 35.48 | 0 | |
| 216650 | 37.51 | 37.51 | 0 | 41.56 | 41.56 | 0 | 42.08 | 42.08 | 0 | 42.11 | 42.11 | 0 | 42.53 | 42.53 | 0 | |
| 216660 | 34.2 | 34.2 | 0 | 37.77 | 37.77 | 0 | 39.72 | 39.72 | 0 | 40.62 | 40.62 | 0 | 41.9 | 41.9 | 0 | |
| 216670 | 27.23 | 27.23 | 0 | 33.03 | 33.03 | 0 | 34.46 | 34.46 | 0 | 34.53 | 34.53 | 0 | 35.48 | 35.48 | 0 | |
| 216680 | 39.55 | 39.55 | 0 | 40.03 | 40.03 | 0 | 40.27 | 40.27 | 0 | 40.38 | 40.38 | 0 | 40.85 | 40.85 | 0 | |
| 216690 | 32.37 | 32.37 | 0 | 32.5 | 32.5 | 0 | 33.1 | 33.1 | 0 | 33.49 | 33.49 | 0 | 35.48 | 35.48 | 0 | |
| 216700 | 33.04 | 33.04 | 0 | 33.41 | 33.41 | 0 | 34.31 | 34.31 | 0 | 34.86 | 34.86 | 0 | 38.17 | 38.17 | 0 | |
| 216710 | 37.35 | 37.35 | 0 | 39.67 | 39.67 | 0 | 40.01 | 40.01 | 0 | 40.16 | 40.16 | 0 | 40.58 | 40.58 | 0 | |
| 216720 | 33.48 | 33.48 | 0 | 34.06 | 34.06 | 0 | 34.3 | 34.3 | 0 | 34.42 | 34.42 | 0 | 35.48 | 35.48 | 0 | |
| 216730 | 34.12 | 34.12 | 0 | 34.56 | 34.56 | 0 | 34.79 | 34.79 | 0 | 34.9 | 34.9 | 0 | 35.48 | 35.48 | 0 | |
| 216740 | 31.96 | 31.96 | 0 | 33.44 | 33.44 | 0 | 33.79 | 33.79 | 0 | 34.01 | 34.01 | 0 | 35.52 | 35.52 | 0 | |
| 216750 | 32.82 | 32.82 | 0 | 33.6 | 33.6 | 0 | 33.85 | 33.85 | 0 | 34.03 | 34.03 | 0 | 35.52 | 35.52 | 0 | |
| 216760 | 31.82 | 31.82 | 0 | 32.98 | 32.98 | 0 | 33.72 | 33.72 | 0 | 33.99 | 33.99 | 0 | 35.53 | 35.53 | 0 | |
| 216770 | 42.7 | 42.7 | 0 | 43.52 | 43.52 | 0 | 44.03 | 44.03 | 0 | 44.24 | 44.24 | 0 | 45.1 | 45.1 | 0 | |
| 216780 | 39.65 | 39.65 | 0 | 45.27 | 45.27 | 0 | 45.59 | 45.59 | 0 | 45.72 | 45.72 | 0 | 46.27 | 46.27 | 0 | |
| 216790 | 18.22 | 18.22 | 0 | 21.37 | 21.37 | 0 | 27.35 | 27.35 | 0 | 29.74 | 29.74 | 0 | 39.31 | 39.31 | 0 | |
| 216800 | 42.6 | 42.6 | 0 | 45.02 | 45.02 | 0 | 45.29 | 45.29 | 0 | 45.4 | 45.4 | 0 | 45.86 | 45.86 | 0 | |
| 216810 | 31.87 | 31.87 | 0 | 35.49 | 35.49 | 0 | 36.18 | 36.18 | 0 | 36.39 | 36.39 | 0 | 37.37 | 37.37 | 0 | |
| 216820 | 31.93 | 31.93 | 0 | 32.78 | 32.78 | 0 | 33.59 | 33.59 | 0 | 34.05 | 34.05 | 0 | 35.85 | 35.85 | 0 | |
| 216830 | 33.86 | 33.86 | 0 | 34.33 | 34.33 | 0 | 34.49 | 34.49 | 0 | 34.56 | 34.56 | 0 | 35.85 | 35.85 | 0 | |
| 216840 | 41.32 | 41.32 | 0 | 42.46 | 42.46 | 0 | 43.16 | 43.16 | 0 | 43.42 | 43.42 | 0 | 44.43 | 44.43 | 0 | |
| 216900 | 48.03 | 48.03 | 0 | 48.44 | 48.44 | 0 | 48.64 | 48.64 | 0 | 48.74 | 48.74 | 0 | 49.22 | 49.22 | 0 | |
| 216910 | 67.06 | 67.06 | 0 | 67.41 | 67.41 | 0 | 67.59 | 67.59 | 0 | 67.68 | 67.68 | 0 | 68.13 | 68.13 | 0 | |
| 216920 | 66.75 | 66.75 | 0 | 67.56 | 67.56 | 0 | 68.57 | 68.57 | 0 | 69.09 | 69.09 | 0 | 70.74 | 70.74 | 0 | |
| 217000 | 27.59 | 27.59 | 0 | 29.46 | 29.46 | 0 | 30.11 | 30.11 | 0 | 30.34 | 30.34 | 0 | 31.4 | 31.4 | 0 | |
| 217010 | 28 | 28 | 0 | 29.47 | 29.47 | 0 | 30.11 | 30.11 | 0 | 30.33 | 30.33 | 0 | 31.35 | 31.35 | 0 | |
| 217020 | 28.75 | 28.75 | 0 | 30.02 | 30.02 | 0 | 30.21 | 30.21 | 0 | 30.3 | 30.3 | 0 | 31.24 | 31.24 | 0 | |
| 217030 | 29.05 | 29.05 | 0 | 30.29 | 30.29 | 0 | 30.58 | 30.58 | 0 | 30.7 | 30.7 | 0 | 31.21 | 31.21 | 0 | |
| 217040 | 27.58 | 27.58 | 0 | 29.45 | 29.45 | 0 | 30.11 | 30.11 | 0 | 30.34 | 30.34 | 0 | 31.47 | 31.47 | 0 | |
| 217050 | 27.59 | 27.59 | 0 | 29.46 | 29.46 | 0 | 30.11 | 30.11 | 0 | 30.35 | 30.35 | 0 | 31.47 | 31.47 | 0 | |
| 217060 | 27.59 | 27.59 | 0 | 29.46 | 29.46 | 0 | 30.13 | 30.13 | 0 | 30.38 | 30.38 | 0 | 31.56 | 31.56 | 0 | |
| 217070 | 27.59 | 27.59 | 0 | 29.62 | 29.62 | 0 | 30.52 | 30.52 | 0 | 30.96 | 30.96 | 0 | 33.34 | 33.34 | 0 | |
| 217080 | 27.92 | 27.92 | 0 | 29.62 | 29.62 | 0 | 30.52 | 30.52 | 0 | 30.97 | 30.97 | 0 | 33.34 | 33.34 | 0 | |
| 217090 | 32.41 | 32.41 | 0 | 33.25 | 33.25 | 0 | 33.74 | 33.74 | 0 | 34.02 | 34.02 | 0 | 37.19 | 37.19 | 0 | |
| 217100 | 39.14 | 39.14 | 0 | 40.8 | 40.8 | 0 | 41 | 41 | 0 | 41.1 | 41.1 | 0 | 41.47 | 41.47 | 0 | |
| 217110 | 43.39 | 43.39 | 0 | 43.65 | 43.65 | 0 | 43.75 | 43.75 | 0 | 43.78 | 43.78 | 0 | 44.08 | 44.08 | 0 | |
| 217120 | 44.07 | 44.07 | 0 | 44.94 | 44.94 | 0 | 45.33 | 45.33 | 0 | 45.51 | 45.51 | 0 | 46.32 | 46.32 | 0 | |
| 217122 | 44.07 | 44.07 | 0 | 45.06 | 45.06 | 0 | 45.6 | 45.6 | 0 | 45.85 | 45.85 | 0 | 47.05 | 47.05 | 0 | |
| 217125 | 44.07 | 44.07 | 0 | 45.08 | 45.08 | 0 | 45.62 | 45.62 | 0 | 45.87 | 45.87 | 0 | 47.08 | 47.08 | 0 | |
| 217130 | 48.87 | 48.87 | 0 | 50.63 | 50.63 | 0 | 51.54 | 51.54 | 0 | 51.95 | 51.95 | 0 | 52.84 | 52.84 | 0 | |
| 217140 | 48.88 | 48.88 | 0 | 50.7 | 50.7 | 0 | 51.64 | 51.64 | 0 | 52.06 | 52.06 | 0 | 52.97 | 52.97 | 0 | |
| 217150 | 40.15 | 40.15 | 0 | 40.34 | 40.34 | 0 | 40.43 | 40.43 | 0 | 40.48 | 40.48 | 0 | 40.69 | 40.69 | 0 | |
| 217160 | 27.58 | 27.58 | 0 | 29.45 | 29.45 | 0 | 30.11 | 30.11 | 0 | 30.34 | 30.34 | 0 | 31.47 | 31.47 | 0 | |
| 217170 | 27.58 | 27.58 | 0 | 29.46 | 29.46 | 0 | 30.11 | 30.11 | 0 | 30.34 | 30.34 | 0 | 31.46 | 31.46 | 0 | |
| 217180 | 27.44 | 27.44 | 0 | 29.54 | 29.54 | 0 | 30.11 | 30.11 | 0 | 30.34 | 30.34 | 0 | 31.46 | 31.46 | 0 | |
| 217190 | 29.39 | 29.39 | 0 | 29.62 | 29.62 | 0 | 30.11 | 30.11 | 0 | 30.34 | 30.34 | 0 | 31.46 | 31.46 | 0 | |
| 217200 | 29.53 | 29.53 | 0 | 29.86 | 29.86 | 0 | 30.09 | 30.09 | 0 | 30.27 | 30.27 | 0 | 31.12 | 31.12 | 0 | |
| 217210 | 29.46 | 29.46 | 0 | 31.11 | 31.11 | 0 | 31.75 | 31.75 | 0 | 32.04 | 32.04 | 0 | 33.52 | 33.52 | 0 | |
| 217220 | 27.58 | 27.58 | 0 | 29.45 | 29.45 | 0 | 30.11 | 30.11 | 0 | 30.34 | 30.34 | 0 | 31.47 | 31.47 | 0 | |
| 217230 | 28.06 | 28.06 | 0 | 29.52 | 29.52 | 0 | 30.22 | 30.22 | 0 | 30.53 | 30.53 | 0 | 32.08 | 32.08 | 0 | |
| 217240 | 32.92 | 32.92 | 0 | 33.04 | 33.04 | 0 | 33.13 | 33.13 | 0 | 33.17 | 33.17 | 0 | 33.32 | 33.32 | 0 | |
| 217250 | 35.68 | 35.68 | 0 | 36.14 | 36.14 | 0 | 36.36 | 36.36 | 0 | 36.47 | 36.47 | 0 | 36.99 | 36.99 | 0 | |
| 217260 | 35.42 | 35.42 | 0 | 37.31 | 37.31 | 0 | 38.47 | 38.47 | 0 | 38.99 | 38.99 | 0 | 40. | | | |

Summary of Corrected and Revised Stages for Bridge

| Node | 2.33YR24HR | | | 25YR24HR | | | 50YR24HR | | | 100YR24HR | | | 500YR24HR | | | Notes |
|--------|--------------------------------|---------------------|-----------------|--------------------------------|---------------------|-----------------|--------------------------------|---------------------|-----------------|--------------------------------|---------------------|-----------------|--------------------------------|---------------------|-----------------|-------|
| | Corrected Effective Stage (ft) | Proposed Stage (ft) | Difference (ft) | Corrected Effective Stage (ft) | Proposed Stage (ft) | Difference (ft) | Corrected Effective Stage (ft) | Proposed Stage (ft) | Difference (ft) | Corrected Effective Stage (ft) | Proposed Stage (ft) | Difference (ft) | Corrected Effective Stage (ft) | Proposed Stage (ft) | Difference (ft) | |
| 217320 | 39.11 | 39.11 | 0 | 40.15 | 40.15 | 0 | 40.22 | 40.22 | 0 | 40.25 | 40.25 | 0 | 40.36 | 40.36 | 0 | |
| 217330 | 35.41 | 35.41 | 0 | 36.58 | 36.58 | 0 | 37.21 | 37.21 | 0 | 37.53 | 37.53 | 0 | 39.16 | 39.16 | 0 | |
| 217340 | 36.42 | 36.42 | 0 | 36.89 | 36.89 | 0 | 37.24 | 37.24 | 0 | 37.54 | 37.54 | 0 | 39.16 | 39.16 | 0 | |
| 217350 | 35.41 | 35.41 | 0 | 36.61 | 36.61 | 0 | 37.38 | 37.38 | 0 | 37.74 | 37.74 | 0 | 39.36 | 39.36 | 0 | |
| 217360 | 37.36 | 37.36 | 0 | 37.86 | 37.86 | 0 | 38.09 | 38.09 | 0 | 38.22 | 38.22 | 0 | 39.37 | 39.37 | 0 | |
| 217370 | 55.09 | 55.09 | 0 | 55.48 | 55.48 | 0 | 55.71 | 55.71 | 0 | 55.82 | 55.82 | 0 | 56.24 | 56.24 | 0 | |
| 217380 | 36.1 | 36.1 | 0 | 37.94 | 37.94 | 0 | 38.86 | 38.86 | 0 | 39.18 | 39.18 | 0 | 40.37 | 40.37 | 0 | |
| 217390 | 38.65 | 38.65 | 0 | 39.11 | 39.11 | 0 | 39.34 | 39.34 | 0 | 39.45 | 39.45 | 0 | 40.38 | 40.38 | 0 | |
| 217400 | 36.47 | 36.47 | 0 | 40.91 | 40.91 | 0 | 42.01 | 42.01 | 0 | 42.39 | 42.39 | 0 | 43.74 | 43.74 | 0 | |
| 217410 | 35.83 | 35.83 | 0 | 36.89 | 36.89 | 0 | 38.19 | 38.19 | 0 | 40.27 | 40.27 | 0 | 45.42 | 45.42 | 0 | |
| 217420 | 41.66 | 41.66 | 0 | 43.77 | 43.77 | 0 | 43.98 | 43.98 | 0 | 44.17 | 44.17 | 0 | 45.45 | 45.45 | 0 | |
| 217430 | 40.13 | 40.13 | 0 | 40.85 | 40.85 | 0 | 41.18 | 41.18 | 0 | 41.32 | 41.32 | 0 | 41.97 | 41.97 | 0 | |
| 217440 | 49.71 | 49.71 | 0 | 50.01 | 50.01 | 0 | 50.16 | 50.16 | 0 | 50.23 | 50.23 | 0 | 50.51 | 50.51 | 0 | |
| 217450 | 49.98 | 49.98 | 0 | 50.37 | 50.37 | 0 | 50.59 | 50.59 | 0 | 50.69 | 50.69 | 0 | 51.16 | 51.16 | 0 | |
| 217460 | 53.16 | 53.16 | 0 | 53.61 | 53.61 | 0 | 53.8 | 53.8 | 0 | 53.88 | 53.88 | 0 | 54.29 | 54.29 | 0 | |
| 217470 | 56.11 | 56.11 | 0 | 56.37 | 56.37 | 0 | 56.45 | 56.45 | 0 | 56.49 | 56.49 | 0 | 56.67 | 56.67 | 0 | |
| 217480 | 48.1 | 48.1 | 0 | 48.25 | 48.25 | 0 | 48.33 | 48.33 | 0 | 48.36 | 48.36 | 0 | 48.55 | 48.55 | 0 | |
| 217490 | 40.19 | 40.19 | 0 | 40.19 | 40.19 | 0 | 40.19 | 40.19 | 0 | 40.19 | 40.19 | 0 | 41.62 | 41.62 | 0 | |
| 217500 | 41.34 | 41.34 | 0 | 43.08 | 43.08 | 0 | 43.94 | 43.94 | 0 | 44.31 | 44.31 | 0 | 45.9 | 45.9 | 0 | |
| 217510 | 38.87 | 38.87 | 0 | 42.55 | 42.55 | 0 | 43.23 | 43.23 | 0 | 43.55 | 43.55 | 0 | 46.45 | 46.45 | 0 | |
| 217520 | 47.51 | 47.51 | 0 | 48.02 | 48.02 | 0 | 48.13 | 48.13 | 0 | 48.19 | 48.19 | 0 | 49.32 | 49.32 | 0 | |
| 217530 | 49.5 | 49.5 | 0 | 51.85 | 51.85 | 0 | 52.74 | 52.74 | 0 | 53.19 | 53.19 | 0 | 54.56 | 54.56 | 0 | |
| 217540 | 52.13 | 52.13 | 0 | 52.97 | 52.97 | 0 | 53.24 | 53.24 | 0 | 53.34 | 53.34 | 0 | 54.04 | 54.04 | 0 | |
| 217550 | 52.69 | 52.69 | 0 | 53.26 | 53.26 | 0 | 53.61 | 53.61 | 0 | 53.76 | 53.76 | 0 | 54.87 | 54.87 | 0 | |
| 217560 | 53.28 | 53.28 | 0 | 54.72 | 54.72 | 0 | 55.35 | 55.35 | 0 | 55.53 | 55.53 | 0 | 56.04 | 56.04 | 0 | |
| 217570 | 58.94 | 58.94 | 0 | 59.35 | 59.35 | 0 | 59.47 | 59.47 | 0 | 59.52 | 59.52 | 0 | 59.78 | 59.78 | 0 | |
| 217580 | 52.5 | 52.5 | 0 | 52.98 | 52.98 | 0 | 53.29 | 53.29 | 0 | 53.45 | 53.45 | 0 | 54.62 | 54.62 | 0 | |
| 217590 | 53.04 | 53.04 | 0 | 54.12 | 54.12 | 0 | 54.75 | 54.75 | 0 | 55.06 | 55.06 | 0 | 55.88 | 55.88 | 0 | |
| 217600 | 28.13 | 28.13 | 0 | 29.03 | 29.03 | 0 | 29.63 | 29.63 | 0 | 29.86 | 29.86 | 0 | 30.96 | 30.96 | 0 | |
| 217610 | 28.8 | 28.8 | 0 | 29.36 | 29.36 | 0 | 30.03 | 30.03 | 0 | 30.29 | 30.29 | 0 | 31.44 | 31.44 | 0 | |
| 217620 | 29.68 | 29.68 | 0 | 31.07 | 31.07 | 0 | 31.32 | 31.32 | 0 | 31.42 | 31.42 | 0 | 31.87 | 31.87 | 0 | |
| 217630 | 30.91 | 30.91 | 0 | 31.2 | 31.2 | 0 | 31.38 | 31.38 | 0 | 31.47 | 31.47 | 0 | 31.88 | 31.88 | 0 | |
| 217640 | 28.82 | 28.82 | 0 | 29.5 | 29.5 | 0 | 30.03 | 30.03 | 0 | 30.29 | 30.29 | 0 | 31.44 | 31.44 | 0 | |
| 220000 | 28.35 | 28.35 | 0 | 29.79 | 29.79 | 0 | 30.43 | 30.43 | 0 | 30.69 | 30.69 | 0 | 31.78 | 31.78 | 0 | |
| 220010 | 28.36 | 28.36 | 0 | 29.83 | 29.83 | 0 | 30.49 | 30.49 | 0 | 30.76 | 30.76 | 0 | 31.89 | 31.89 | 0 | |
| 220020 | 28.48 | 28.48 | 0 | 29.9 | 29.9 | 0 | 30.57 | 30.57 | 0 | 30.84 | 30.84 | 0 | 31.96 | 31.96 | 0 | |
| 220030 | 28.52 | 28.52 | 0 | 29.94 | 29.94 | 0 | 30.61 | 30.61 | 0 | 30.89 | 30.89 | 0 | 32 | 32 | 0 | |
| 220040 | 28.53 | 28.53 | 0 | 29.97 | 29.97 | 0 | 30.66 | 30.66 | 0 | 30.95 | 30.95 | 0 | 32.1 | 32.1 | 0 | |
| 220050 | 28.81 | 28.81 | 0 | 30.28 | 30.28 | 0 | 30.9 | 30.9 | 0 | 31.17 | 31.17 | 0 | 32.28 | 32.28 | 0 | |
| 220060 | 28.81 | 28.81 | 0 | 30.29 | 30.29 | 0 | 30.91 | 30.91 | 0 | 31.19 | 31.19 | 0 | 32.31 | 32.31 | 0 | |
| 220070 | 28.85 | 28.85 | 0 | 30.38 | 30.38 | 0 | 31.04 | 31.04 | 0 | 31.33 | 31.33 | 0 | 32.58 | 32.58 | 0 | |
| 220080 | 29.91 | 29.91 | 0 | 31.07 | 31.07 | 0 | 31.56 | 31.56 | 0 | 31.78 | 31.78 | 0 | 32.77 | 32.77 | 0 | |
| 220090 | 31.5 | 31.5 | 0 | 32.79 | 32.79 | 0 | 33.37 | 33.37 | 0 | 33.65 | 33.65 | 0 | 34.8 | 34.8 | 0 | |
| 220100 | 31.8 | 31.8 | 0 | 33.12 | 33.12 | 0 | 33.65 | 33.65 | 0 | 33.9 | 33.9 | 0 | 34.92 | 34.92 | 0 | |
| 220110 | 32 | 32 | 0 | 33.34 | 33.34 | 0 | 34.08 | 34.08 | 0 | 34.42 | 34.42 | 0 | 35.71 | 35.71 | 0 | |
| 220120 | 32.65 | 32.65 | 0 | 33.79 | 33.79 | 0 | 34.3 | 34.3 | 0 | 34.55 | 34.55 | 0 | 35.74 | 35.74 | 0 | |
| 220130 | 32.71 | 32.71 | 0 | 34.2 | 34.2 | 0 | 35.09 | 35.09 | 0 | 35.38 | 35.38 | 0 | 36.41 | 36.41 | 0 | |
| 220140 | 33.85 | 33.85 | 0 | 35.72 | 35.72 | 0 | 36.03 | 36.03 | 0 | 36.18 | 36.18 | 0 | 36.98 | 36.98 | 0 | |
| 220150 | 33.8 | 33.8 | 0 | 35.64 | 35.64 | 0 | 35.98 | 35.98 | 0 | 36.14 | 36.14 | 0 | 37.03 | 37.03 | 0 | |
| 220160 | 33.32 | 33.32 | 0 | 36.26 | 36.26 | 0 | 38.37 | 38.37 | 0 | 39.56 | 39.56 | 0 | 42.12 | 42.12 | 0 | |
| 220165 | 33.73 | 33.73 | 0 | 36.26 | 36.26 | 0 | 37.3 | 37.3 | 0 | 37.7 | 37.7 | 0 | 39.67 | 39.67 | 0 | |
| 220170 | 34.57 | 34.57 | 0 | 37.75 | 37.75 | 0 | 39.12 | 39.12 | 0 | 39.62 | 39.62 | 0 | 41.29 | 41.29 | 0 | |
| 220180 | 34.6 | 34.6 | 0 | 37.75 | 37.75 | 0 | 39.12 | 39.12 | 0 | 39.62 | 39.62 | 0 | 41.29 | 41.29 | 0 | |
| 220190 | 34.07 | 34.07 | 0 | 36.61 | 36.61 | 0 | 37.69 | 37.69 | 0 | 37.97 | 37.97 | 0 | 39.84 | 39.84 | 0 | |
| 220195 | 34.06 | 34.06 | 0 | 36.73 | 36.73 | 0 | 38.05 | 38.05 | 0 | 38.51 | 38.51 | 0 | 40.21 | 40.21 | 0 | |
| 220200 | 34.09 | 34.09 | 0 | 36.48 | 36.48 | 0 | 37.47 | 37.47 | 0 | 37.87 | 37.87 | 0 | 39.84 | 39.84 | 0 | |
| 220210 | 35.95 | 35.95 | 0 | 36.81 | 36.81 | 0 | 37.47 | 37.47 | 0 | 37.87 | 37.87 | 0 | 39.84 | 39.84 | 0 | |
| 220220 | 36.41 | 36.41 | 0 | 37.8 | 37.8 | 0 | 38.46 | 38.46 | 0 | 38.75 | 38.75 | 0 | 40.09 | 40.09 | 0 | |
| 220230 | 37 | 37 | 0 | 40.89 | 40.89 | 0 | 43.27 | 43.27 | 0 | 43.88 | 43.88 | 0 | 45.27 | 45.27 | 0 | |
| 220300 | 27.69 | 27.69 | 0 | 29.73 | 29.73 | 0 | 30.35 | 30.35 | 0 | 30.61 | 30.61 | 0 | 31.72 | 31.72 | 0 | |
| 220310 | 28.11 | 28.11 | 0 | 29.75 | 29.75 | 0 | 30.36 | 30.36 | 0 | 30.62 | 30.62 | 0 | 31.72 | 31.72 | 0 | |
| 220320 | 28.35 | 28.35 | 0 | 29.93 | 29.93 | 0 | 30.55 | 30.55 | 0 | 30.81 | 30.81 | 0 | 31.9 | 31.9 | 0 | |
| 220330 | 28.41 | 28.41 | 0 | 29.93 | 29.93 | 0 | 30.55 | 30.55 | 0 | 30.81 | 30.81 | 0 | 31.9 | 31.9 | 0 | |
| 220340 | 28.52 | 28.52 | 0 | 30.15 | 30.15 | 0 | 30.77 | 30.77 | 0 | 31.04 | 31.04 | 0 | 32.14 | 32.14 | 0 | |
| 220350 | 28.6 | 28.6 | 0 | 30.29 | 30.29 | 0 | 30.91 | 30.91 | 0 | 31.19 | 31.19 | 0 | 32.31 | 32.31 | 0 | |
| 220360 | 28.11 | 28.11 | 0 | 29.75 | 29.75 | 0 | 30.35 | 30.35 | 0 | 30.61 | 30.61 | 0 | 31.72 | 31.72 | 0 | |
| 220370 | 30.13 | 30.13 | 0 | 30.45 | 30.45 | 0 | 30.57 | 30.57 | 0 | 30.62 | 30.62 | 0 | 31.72 | 31.72 | 0 | |
| 220380 | 30.13 | 30.13 | 0 | 30.45 | 30.45 | 0 | 30.59 | 30.59 | 0 | 30.64 | 30.64 | 0 | 31.72 | 31.72 | 0 | |
| 220390 | 28.66 | 28.66 | 0 | 29.92 | 29.92 | 0 | 30.48 | 30.48 | 0 | 30.69 | 30.69 | 0 | 31.78 | 31.78 | 0 | |
| 220400 | 30.54 | 30.54 | 0 | 30.88 | 30.88 | 0 | 31.05 | 31.05 | 0 | 31.14 | 31.14 | 0 | 31.78 | 31.78 | 0 | |
| 220500 | 29.26 | 29.26 | 0 | 29.94 | 29.94 | 0 | 30.58 | 30.58 | 0 | 30.85 | 30.85 | 0 | 31.96 | 31.96 | 0 | |
| 220510 | 29.66 | 29.66 | 0 | 30.57 | 30.57 | 0 | 30.95 | 30.95 | 0 | 31.12 | 31.12 | 0 | 32.03 | 32.03 | 0 | |
| 220530 | 29.79 | 29.79 | 0 | 31.3 | 31.3 | 0 | 32.02 | 32.02 | 0 | 32.46 | 32.46 | 0 | 34.33 | 34.33 | 0 | |
| 220540 | 30.01 | 30.01 | 0 | 31.75 | 31.75 | 0 | 32.74 | 32.74 | 0 | 33.16 | 33.16 | 0 | 34.5 | 34.5 | 0 | |
| 220550 | 30.03 | 30.03 | 0 | 31.76 | 31.76 | 0 | 32.76 | 32.76 | 0 | 33.18 | 33.18 | 0 | 35.41 | 35.41 | 0 | |
| 220560 | 29.97 | 29.97 | 0 | 31.77 | 31.77 | 0 | 32.72 | 32.72 | 0 | 33.13 | 33.13 | 0 | 34.48 | 34.48 | 0 | |
| 220570 | 29.94 | 29.94 | 0 | 31.98 | 31.98 | 0 | 33.18 | 33.18 | 0 | 33.72 | 33.72 | 0 | 35.73 | 35.73 | 0 | |
| 220580 | 30.04 | 30.04 | 0 | 32.17 | 32.17 | 0 | 33.54 | 33.54 | 0 | 34.12 | 34.12 | 0 | 36.25 | 36.25 | 0 | |
| 220590 | 30.04 | 30.04 | 0 | 32.37 | 32.37 | 0 | 33.58 | 33.58 | 0 | 34.12 | 34.12 | 0 | 36.25 | 36.25 | 0 | |
| 220600 | 30.04 | 30.04 | 0 | 32.85 | 32.85 | 0 | 34.53 | 34.53 | 0 | 34.94 | 34.94 | 0 | 36.29 | 36.29 | 0 | |
| 220610 | 30.04 | 30.04 | 0 | 33.72 | 33.72 | 0 | 35.01 | 35.01 | 0 | 35.32 | 35.32 | 0 | 36.38 | 36.38 | 0 | |
| 220620 | 31.55 | 31.55 | 0 | 35.95 | 35.95 | 0 | 36.43 | 36.43 | 0 | 36.56 | 36.56 | 0 | 37.07 | 37.07 | 0 | |
| 220630 | 34.65 | 34.65 | 0 | 37.23 | 37.23 | 0 | 37.65 | 37.65 | 0 | 37.76 | 37.76 | 0 | | | | |

Summary of Corrected and Revised Stages for Bridge

| Node | 2.33YR24HR | | | 25YR24HR | | | 50YR24HR | | | 100YR24HR | | | 500YR24HR | | | Notes |
|--------|--------------------------------|---------------------|-----------------|--------------------------------|---------------------|-----------------|--------------------------------|---------------------|-----------------|--------------------------------|---------------------|-----------------|--------------------------------|---------------------|-----------------|-------|
| | Corrected Effective Stage (ft) | Proposed Stage (ft) | Difference (ft) | Corrected Effective Stage (ft) | Proposed Stage (ft) | Difference (ft) | Corrected Effective Stage (ft) | Proposed Stage (ft) | Difference (ft) | Corrected Effective Stage (ft) | Proposed Stage (ft) | Difference (ft) | Corrected Effective Stage (ft) | Proposed Stage (ft) | Difference (ft) | |
| 220690 | 29.29 | 29.29 | 0 | 30.82 | 30.82 | 0 | 31.09 | 31.09 | 0 | 31.19 | 31.19 | 0 | 32 | 32 | 0 | |
| 220700 | 30.31 | 30.31 | 0 | 30.92 | 30.92 | 0 | 31.15 | 31.15 | 0 | 31.24 | 31.24 | 0 | 32 | 32 | 0 | |
| 220710 | 30.31 | 30.31 | 0 | 30.96 | 30.96 | 0 | 31.3 | 31.3 | 0 | 31.45 | 31.45 | 0 | 32.08 | 32.08 | 0 | |
| 220720 | 30.31 | 30.31 | 0 | 31.01 | 31.01 | 0 | 31.31 | 31.31 | 0 | 31.44 | 31.44 | 0 | 32 | 32 | 0 | |
| 220730 | 30.31 | 30.31 | 0 | 31.05 | 31.05 | 0 | 31.38 | 31.38 | 0 | 31.53 | 31.53 | 0 | 32.15 | 32.15 | 0 | |
| 220740 | 30.31 | 30.31 | 0 | 31.4 | 31.4 | 0 | 31.85 | 31.85 | 0 | 32.03 | 32.03 | 0 | 32.77 | 32.77 | 0 | |
| 220750 | 30.31 | 30.31 | 0 | 31.21 | 31.21 | 0 | 31.63 | 31.63 | 0 | 31.81 | 31.81 | 0 | 32.59 | 32.59 | 0 | |
| 220760 | 30.31 | 30.31 | 0 | 31.63 | 31.63 | 0 | 32.27 | 32.27 | 0 | 32.55 | 32.55 | 0 | 33.63 | 33.63 | 0 | |
| 220770 | 30.32 | 30.32 | 0 | 32.24 | 32.24 | 0 | 32.66 | 32.66 | 0 | 32.84 | 32.84 | 0 | 33.69 | 33.69 | 0 | |
| 220780 | 40.45 | 40.45 | 0 | 41.78 | 41.78 | 0 | 43.22 | 43.22 | 0 | 44.08 | 44.08 | 0 | 45.51 | 45.51 | 0 | |
| 220790 | 43.27 | 43.27 | 0 | 44.53 | 44.53 | 0 | 44.78 | 44.78 | 0 | 44.89 | 44.89 | 0 | 45.57 | 45.57 | 0 | |
| 220800 | 30.31 | 30.31 | 0 | 31.59 | 31.59 | 0 | 32.2 | 32.2 | 0 | 32.48 | 32.48 | 0 | 33.41 | 33.41 | 0 | |
| 220810 | 30.31 | 30.31 | 0 | 31.58 | 31.58 | 0 | 32.1 | 32.1 | 0 | 32.35 | 32.35 | 0 | 32.8 | 32.8 | 0 | |
| 220820 | 31.46 | 31.46 | 0 | 31.65 | 31.65 | 0 | 31.86 | 31.86 | 0 | 32.04 | 32.04 | 0 | 32.77 | 32.77 | 0 | |
| 220830 | 30.31 | 30.31 | 0 | 31.21 | 31.21 | 0 | 31.65 | 31.65 | 0 | 31.84 | 31.84 | 0 | 33.62 | 33.62 | 0 | |
| 220840 | 31.81 | 31.81 | 0 | 32.07 | 32.07 | 0 | 32.29 | 32.29 | 0 | 32.55 | 32.55 | 0 | 33.63 | 33.63 | 0 | |
| 220850 | 29.67 | 29.67 | 0 | 30.74 | 30.74 | 0 | 31.73 | 31.73 | 0 | 32.01 | 32.01 | 0 | 32.67 | 32.67 | 0 | |
| 220860 | 31.82 | 31.82 | 0 | 32.15 | 32.15 | 0 | 32.27 | 32.27 | 0 | 32.33 | 32.33 | 0 | 32.74 | 32.74 | 0 | |
| 220870 | 29.67 | 29.67 | 0 | 30.9 | 30.9 | 0 | 31.29 | 31.29 | 0 | 31.44 | 31.44 | 0 | 32.08 | 32.08 | 0 | |
| 220880 | 29.67 | 29.67 | 0 | 30.9 | 30.9 | 0 | 31.29 | 31.29 | 0 | 31.44 | 31.44 | 0 | 32.08 | 32.08 | 0 | |
| 220890 | 31.74 | 31.74 | 0 | 32.84 | 32.84 | 0 | 36.86 | 36.86 | 0 | 38.23 | 38.23 | 0 | 38.72 | 38.72 | 0 | |
| 220900 | 36.83 | 36.83 | 0 | 39.59 | 39.59 | 0 | 39.87 | 39.87 | 0 | 40 | 40 | 0 | 40.57 | 40.57 | 0 | |
| 220910 | 41.45 | 41.45 | 0 | 43.09 | 43.09 | 0 | 43.25 | 43.25 | 0 | 43.32 | 43.32 | 0 | 43.59 | 43.59 | 0 | |
| 220920 | 29.76 | 29.76 | 0 | 31.3 | 31.3 | 0 | 32.22 | 32.22 | 0 | 32.54 | 32.54 | 0 | 33.63 | 33.63 | 0 | |
| 220930 | 31.55 | 31.55 | 0 | 31.64 | 31.64 | 0 | 32.27 | 32.27 | 0 | 32.55 | 32.55 | 0 | 33.63 | 33.63 | 0 | |
| 220940 | 27.45 | 27.45 | 0 | 28.02 | 28.02 | 0 | 28.38 | 28.38 | 0 | 28.59 | 28.59 | 0 | 32.87 | 32.87 | 0 | |
| 220950 | 37.16 | 37.16 | 0 | 38.35 | 38.35 | 0 | 39.04 | 39.04 | 0 | 39.18 | 39.18 | 0 | 39.93 | 39.93 | 0 | |
| 220960 | 36.12 | 36.12 | 0 | 38.19 | 38.19 | 0 | 39.24 | 39.24 | 0 | 39.73 | 39.73 | 0 | 41.07 | 41.07 | 0 | |
| 220970 | 30.1 | 30.1 | 0 | 31.76 | 31.76 | 0 | 32.76 | 32.76 | 0 | 33.18 | 33.18 | 0 | 35.12 | 35.12 | 0 | |
| 220980 | 32.24 | 32.24 | 0 | 33.51 | 33.51 | 0 | 34.22 | 34.22 | 0 | 34.63 | 34.63 | 0 | 37.74 | 37.74 | 0 | |
| 220990 | 33.36 | 33.36 | 0 | 36.48 | 36.48 | 0 | 39.04 | 39.04 | 0 | 40.14 | 40.14 | 0 | 42.91 | 42.91 | 0 | |
| 221000 | 34.85 | 34.85 | 0 | 35.47 | 35.47 | 0 | 35.76 | 35.76 | 0 | 35.87 | 35.87 | 0 | 36.18 | 36.18 | 0 | |
| 221020 | 35.77 | 35.77 | 0 | 35.97 | 35.97 | 0 | 36.43 | 36.43 | 0 | 36.76 | 36.76 | 0 | 37.81 | 37.81 | 0 | |
| 221030 | 34.85 | 34.85 | 0 | 35.64 | 35.64 | 0 | 36.3 | 36.3 | 0 | 36.62 | 36.62 | 0 | 37.71 | 37.71 | 0 | |
| 221040 | 34.85 | 34.85 | 0 | 35.72 | 35.72 | 0 | 36.54 | 36.54 | 0 | 36.95 | 36.95 | 0 | 38.53 | 38.53 | 0 | |
| 221050 | 34.85 | 34.85 | 0 | 35.69 | 35.69 | 0 | 36.42 | 36.42 | 0 | 36.76 | 36.76 | 0 | 37.8 | 37.8 | 0 | |
| 221060 | 30.04 | 30.04 | 0 | 32.65 | 32.65 | 0 | 34.13 | 34.13 | 0 | 34.44 | 34.44 | 0 | 36.25 | 36.25 | 0 | |
| 221070 | 30.05 | 30.05 | 0 | 33.38 | 33.38 | 0 | 34.55 | 34.55 | 0 | 34.95 | 34.95 | 0 | 36.3 | 36.3 | 0 | |
| 221080 | 30.59 | 30.59 | 0 | 33.36 | 33.36 | 0 | 34.55 | 34.55 | 0 | 34.95 | 34.95 | 0 | 36.3 | 36.3 | 0 | |
| 221090 | 38.35 | 38.35 | 0 | 38.91 | 38.91 | 0 | 39.15 | 39.15 | 0 | 39.23 | 39.23 | 0 | 39.93 | 39.93 | 0 | |
| 221100 | 33.51 | 33.51 | 0 | 35.96 | 35.96 | 0 | 36.04 | 36.04 | 0 | 36.11 | 36.11 | 0 | 36.72 | 36.72 | 0 | |
| 221110 | 30.05 | 30.05 | 0 | 35.99 | 35.99 | 0 | 36.3 | 36.3 | 0 | 36.42 | 36.42 | 0 | 36.91 | 36.91 | 0 | |
| 221120 | 39.73 | 39.73 | 0 | 40.32 | 40.32 | 0 | 40.58 | 40.58 | 0 | 40.71 | 40.71 | 0 | 41.3 | 41.3 | 0 | |
| 221130 | 31.69 | 31.69 | 0 | 35.11 | 35.11 | 0 | 36.56 | 36.56 | 0 | 36.86 | 36.86 | 0 | 37.69 | 37.69 | 0 | |
| 221140 | 35.08 | 35.08 | 0 | 37.41 | 37.41 | 0 | 40.41 | 40.41 | 0 | 41.45 | 41.45 | 0 | 44.76 | 44.76 | 0 | |
| 221150 | 37.35 | 37.35 | 0 | 40.72 | 40.72 | 0 | 44.49 | 44.49 | 0 | 44.81 | 44.81 | 0 | 45.75 | 45.75 | 0 | |
| 221160 | 45.4 | 45.4 | 0 | 45.64 | 45.64 | 0 | 45.76 | 45.76 | 0 | 45.81 | 45.81 | 0 | 46.07 | 46.07 | 0 | |
| 221200 | 28.81 | 28.81 | 0 | 30.28 | 30.28 | 0 | 30.9 | 30.9 | 0 | 31.17 | 31.17 | 0 | 32.28 | 32.28 | 0 | |
| 221210 | 29.05 | 29.05 | 0 | 30.28 | 30.28 | 0 | 30.9 | 30.9 | 0 | 31.17 | 31.17 | 0 | 32.28 | 32.28 | 0 | |
| 221220 | 27.7 | 27.7 | 0 | 29.97 | 29.97 | 0 | 30.66 | 30.66 | 0 | 30.95 | 30.95 | 0 | 32.1 | 32.1 | 0 | |
| 221230 | 37.18 | 37.18 | 0 | 37.56 | 37.56 | 0 | 37.76 | 37.76 | 0 | 37.84 | 37.84 | 0 | 38.19 | 38.19 | 0 | |
| 221240 | 37.32 | 37.32 | 0 | 37.88 | 37.88 | 0 | 38.07 | 38.07 | 0 | 38.15 | 38.15 | 0 | 38.58 | 38.58 | 0 | |
| 221250 | 43.11 | 43.11 | 0 | 44.69 | 44.69 | 0 | 45.43 | 45.43 | 0 | 45.45 | 45.45 | 0 | 45.73 | 45.73 | 0 | |
| 221260 | 42.63 | 42.63 | 0 | 44.58 | 44.58 | 0 | 45.4 | 45.4 | 0 | 45.72 | 45.72 | 0 | 46.85 | 46.85 | 0 | |
| 221270 | 29.37 | 29.37 | 0 | 29.97 | 29.97 | 0 | 30.66 | 30.66 | 0 | 30.95 | 30.95 | 0 | 32.1 | 32.1 | 0 | |
| 221280 | 36.41 | 36.41 | 0 | 36.64 | 36.64 | 0 | 36.74 | 36.74 | 0 | 36.79 | 36.79 | 0 | 37.01 | 37.01 | 0 | |
| 221290 | 29.93 | 29.93 | 0 | 32.17 | 32.17 | 0 | 33.54 | 33.54 | 0 | 34.12 | 34.12 | 0 | 36.25 | 36.25 | 0 | |
| 221300 | 30.94 | 30.94 | 0 | 32.17 | 32.17 | 0 | 33.54 | 33.54 | 0 | 34.12 | 34.12 | 0 | 36.25 | 36.25 | 0 | |
| 221310 | 37.57 | 37.57 | 0 | 39.49 | 39.49 | 0 | 40.16 | 40.16 | 0 | 40.54 | 40.54 | 0 | 41.58 | 41.58 | 0 | |
| 221320 | 36 | 36 | 0 | 38.21 | 38.21 | 0 | 39.98 | 39.98 | 0 | 40.44 | 40.44 | 0 | 41.55 | 41.55 | 0 | |
| 221330 | 37.65 | 37.65 | 0 | 39.71 | 39.71 | 0 | 39.97 | 39.97 | 0 | 40.08 | 40.08 | 0 | 41.1 | 41.1 | 0 | |
| 221340 | 34.1 | 34.1 | 0 | 36.46 | 36.46 | 0 | 38.35 | 38.35 | 0 | 39.22 | 39.22 | 0 | 40.97 | 40.97 | 0 | |
| 221350 | 28.97 | 28.97 | 0 | 32.17 | 32.17 | 0 | 33.54 | 33.54 | 0 | 34.12 | 34.12 | 0 | 36.25 | 36.25 | 0 | |
| 221400 | 28.81 | 28.81 | 0 | 30.29 | 30.29 | 0 | 30.91 | 30.91 | 0 | 31.19 | 31.19 | 0 | 32.31 | 32.31 | 0 | |
| 221410 | 28.6 | 28.6 | 0 | 30.29 | 30.29 | 0 | 30.91 | 30.91 | 0 | 31.19 | 31.19 | 0 | 32.31 | 32.31 | 0 | |
| 221420 | 28.6 | 28.6 | 0 | 30.29 | 30.29 | 0 | 30.91 | 30.91 | 0 | 31.19 | 31.19 | 0 | 32.31 | 32.31 | 0 | |
| 221430 | 28.6 | 28.6 | 0 | 30.29 | 30.29 | 0 | 30.91 | 30.91 | 0 | 31.19 | 31.19 | 0 | 32.32 | 32.32 | 0 | |
| 221440 | 28.6 | 28.6 | 0 | 30.33 | 30.33 | 0 | 30.96 | 30.96 | 0 | 31.26 | 31.26 | 0 | 32.41 | 32.41 | 0 | |
| 221450 | 28.6 | 28.6 | 0 | 30.33 | 30.33 | 0 | 30.96 | 30.96 | 0 | 31.26 | 31.26 | 0 | 32.41 | 32.41 | 0 | |
| 221460 | 28.6 | 28.6 | 0 | 30.33 | 30.33 | 0 | 30.96 | 30.96 | 0 | 31.26 | 31.26 | 0 | 32.4 | 32.4 | 0 | |
| 221470 | 28.61 | 28.61 | 0 | 30.35 | 30.35 | 0 | 31.05 | 31.05 | 0 | 31.41 | 31.41 | 0 | 32.71 | 32.71 | 0 | |
| 221480 | 28.64 | 28.64 | 0 | 30.28 | 30.28 | 0 | 30.86 | 30.86 | 0 | 31.11 | 31.11 | 0 | 32.04 | 32.04 | 0 | |
| 221490 | 29.08 | 29.08 | 0 | 30.74 | 30.74 | 0 | 31.19 | 31.19 | 0 | 31.37 | 31.37 | 0 | 32.08 | 32.08 | 0 | |
| 221500 | 28.61 | 28.61 | 0 | 32.02 | 32.02 | 0 | 32.49 | 32.49 | 0 | 32.68 | 32.68 | 0 | 33.45 | 33.45 | 0 | |
| 221510 | 28.6 | 28.6 | 0 | 30.33 | 30.33 | 0 | 30.98 | 30.98 | 0 | 31.28 | 31.28 | 0 | 32.41 | 32.41 | 0 | |
| 221520 | 28.6 | 28.6 | 0 | 30.3 | 30.3 | 0 | 30.92 | 30.92 | 0 | 31.19 | 31.19 | 0 | 32.31 | 32.31 | 0 | |
| 221530 | 28.6 | 28.6 | 0 | 30.31 | 30.31 | 0 | 30.94 | 30.94 | 0 | 31.22 | 31.22 | 0 | 32.33 | 32.33 | 0 | |
| 221540 | 28.6 | 28.6 | 0 | 30.32 | 30.32 | 0 | 30.95 | 30.95 | 0 | 31.23 | 31.23 | 0 | 32.35 | 32.35 | 0 | |
| 221550 | 28.6 | 28.6 | 0 | 30.32 | 30.32 | 0 | 30.95 | 30.95 | 0 | 31.24 | 31.24 | 0 | 32.36 | 32.36 | 0 | |
| 221560 | 28.6 | 28.6 | 0 | 30.34 | 30.34 | 0 | 30.98 | 30.98 | 0 | 31.28 | 31.28 | 0 | 32.42 | 32.42 | 0 | |
| 221570 | 28.6 | 28.6 | 0 | 30.34 | 30.34 | 0 | 30.98 | 30.98 | 0 | 31.28 | 31.28 | 0 | 32. | | | |

Summary of Corrected and Revised Stages for Bridge

| Node | 2.33YR24HR | | | 25YR24HR | | | 50YR24HR | | | 100YR24HR | | | 500YR24HR | | | Notes |
|--------|--------------------------------|---------------------|-----------------|--------------------------------|---------------------|-----------------|--------------------------------|---------------------|-----------------|--------------------------------|---------------------|-----------------|--------------------------------|---------------------|-----------------|-------|
| | Corrected Effective Stage (ft) | Proposed Stage (ft) | Difference (ft) | Corrected Effective Stage (ft) | Proposed Stage (ft) | Difference (ft) | Corrected Effective Stage (ft) | Proposed Stage (ft) | Difference (ft) | Corrected Effective Stage (ft) | Proposed Stage (ft) | Difference (ft) | Corrected Effective Stage (ft) | Proposed Stage (ft) | Difference (ft) | |
| 221680 | 28.79 | 28.79 | 0 | 30.29 | 30.29 | 0 | 30.92 | 30.92 | 0 | 31.19 | 31.19 | 0 | 32.31 | 32.31 | 0 | |
| 221690 | 28.74 | 28.74 | 0 | 30.29 | 30.29 | 0 | 30.92 | 30.92 | 0 | 31.19 | 31.19 | 0 | 32.31 | 32.31 | 0 | |
| 221700 | 28.74 | 28.74 | 0 | 30.29 | 30.29 | 0 | 30.92 | 30.92 | 0 | 31.21 | 31.21 | 0 | 32.32 | 32.32 | 0 | |
| 221710 | 28.75 | 28.75 | 0 | 30.3 | 30.3 | 0 | 30.97 | 30.97 | 0 | 31.27 | 31.27 | 0 | 33.18 | 33.18 | 0 | |
| 221720 | 30.58 | 30.58 | 0 | 32.18 | 32.18 | 0 | 32.68 | 32.68 | 0 | 32.88 | 32.88 | 0 | 33.69 | 33.69 | 0 | |
| 221730 | 30.6 | 30.6 | 0 | 32.18 | 32.18 | 0 | 32.68 | 32.68 | 0 | 32.88 | 32.88 | 0 | 33.7 | 33.7 | 0 | |
| 221740 | 30.61 | 30.61 | 0 | 32.32 | 32.32 | 0 | 32.82 | 32.82 | 0 | 33.03 | 33.03 | 0 | 33.83 | 33.83 | 0 | |
| 221750 | 30.61 | 30.61 | 0 | 32.68 | 32.68 | 0 | 33.36 | 33.36 | 0 | 33.67 | 33.67 | 0 | 35.13 | 35.13 | 0 | |
| 221760 | 30.61 | 30.61 | 0 | 32.88 | 32.88 | 0 | 33.49 | 33.49 | 0 | 33.79 | 33.79 | 0 | 35.21 | 35.21 | 0 | |
| 221770 | 32.93 | 32.93 | 0 | 33.65 | 33.65 | 0 | 34.01 | 34.01 | 0 | 34.32 | 34.32 | 0 | 35.52 | 35.52 | 0 | |
| 221780 | 30.57 | 30.57 | 0 | 32.25 | 32.25 | 0 | 33.07 | 33.07 | 0 | 33.43 | 33.43 | 0 | 35.09 | 35.09 | 0 | |
| 221790 | 31.9 | 31.9 | 0 | 32.25 | 32.25 | 0 | 33.1 | 33.1 | 0 | 33.49 | 33.49 | 0 | 35.48 | 35.48 | 0 | |
| 221800 | 33.11 | 33.11 | 0 | 33.54 | 33.54 | 0 | 33.74 | 33.74 | 0 | 33.82 | 33.82 | 0 | 34.14 | 34.14 | 0 | |
| 221810 | 33.11 | 33.11 | 0 | 33.56 | 33.56 | 0 | 33.75 | 33.75 | 0 | 33.82 | 33.82 | 0 | 34.14 | 34.14 | 0 | |
| 221820 | 42.77 | 42.77 | 0 | 45.59 | 45.59 | 0 | 46.8 | 46.8 | 0 | 47.33 | 47.33 | 0 | 49.54 | 49.54 | 0 | |
| 221830 | 33.9 | 33.9 | 0 | 34.61 | 34.61 | 0 | 34.72 | 34.72 | 0 | 34.83 | 34.83 | 0 | 35.61 | 35.61 | 0 | |
| 221840 | 34.19 | 34.19 | 0 | 36.13 | 36.13 | 0 | 36.31 | 36.31 | 0 | 36.39 | 36.39 | 0 | 36.76 | 36.76 | 0 | |
| 221900 | 30.96 | 30.96 | 0 | 31.57 | 31.57 | 0 | 31.81 | 31.81 | 0 | 31.9 | 31.9 | 0 | 32.58 | 32.58 | 0 | |
| 221910 | 31.26 | 31.26 | 0 | 32 | 32 | 0 | 32.28 | 32.28 | 0 | 32.38 | 32.38 | 0 | 32.75 | 32.75 | 0 | |
| 221920 | 28.86 | 28.86 | 0 | 30.38 | 30.38 | 0 | 31.04 | 31.04 | 0 | 31.33 | 31.33 | 0 | 32.58 | 32.58 | 0 | |
| 221930 | 30.17 | 30.17 | 0 | 30.41 | 30.41 | 0 | 31.04 | 31.04 | 0 | 31.33 | 31.33 | 0 | 32.58 | 32.58 | 0 | |
| 221940 | 30.66 | 30.66 | 0 | 30.95 | 30.95 | 0 | 31.06 | 31.06 | 0 | 31.33 | 31.33 | 0 | 32.58 | 32.58 | 0 | |
| 221950 | 28.85 | 28.85 | 0 | 30.38 | 30.38 | 0 | 31.04 | 31.04 | 0 | 31.33 | 31.33 | 0 | 32.58 | 32.58 | 0 | |
| 221960 | 29.92 | 29.92 | 0 | 31 | 31 | 0 | 31.24 | 31.24 | 0 | 31.38 | 31.38 | 0 | 32.58 | 32.58 | 0 | |
| 221970 | 30.89 | 30.89 | 0 | 31.12 | 31.12 | 0 | 31.36 | 31.36 | 0 | 31.49 | 31.49 | 0 | 32.58 | 32.58 | 0 | |
| 221980 | 30.89 | 30.89 | 0 | 31.09 | 31.09 | 0 | 31.53 | 31.53 | 0 | 31.77 | 31.77 | 0 | 32.77 | 32.77 | 0 | |
| 221990 | 30.64 | 30.64 | 0 | 31.07 | 31.07 | 0 | 31.56 | 31.56 | 0 | 31.78 | 31.78 | 0 | 32.77 | 32.77 | 0 | |
| 222000 | 32.82 | 32.82 | 0 | 32.82 | 32.82 | 0 | 32.82 | 32.82 | 0 | 32.82 | 32.82 | 0 | 33.22 | 33.22 | 0 | |
| 222010 | 33.92 | 33.92 | 0 | 34.92 | 34.92 | 0 | 35.58 | 35.58 | 0 | 35.92 | 35.92 | 0 | 36.72 | 36.72 | 0 | |
| 222020 | 33.71 | 33.71 | 0 | 34.38 | 34.38 | 0 | 34.65 | 34.65 | 0 | 34.76 | 34.76 | 0 | 35.31 | 35.31 | 0 | |
| 222030 | 31.56 | 31.56 | 0 | 33.25 | 33.25 | 0 | 33.78 | 33.78 | 0 | 34.01 | 34.01 | 0 | 35.06 | 35.06 | 0 | |
| 222040 | 31.56 | 31.56 | 0 | 33.25 | 33.25 | 0 | 33.78 | 33.78 | 0 | 34.01 | 34.01 | 0 | 35.06 | 35.06 | 0 | |
| 222050 | 34.99 | 34.99 | 0 | 35.73 | 35.73 | 0 | 36.16 | 36.16 | 0 | 36.37 | 36.37 | 0 | 37.43 | 37.43 | 0 | |
| 222060 | 32 | 32 | 0 | 33.7 | 33.7 | 0 | 34.37 | 34.37 | 0 | 34.63 | 34.63 | 0 | 35.61 | 35.61 | 0 | |
| 222070 | 32.49 | 32.49 | 0 | 35.2 | 35.2 | 0 | 36.17 | 36.17 | 0 | 36.51 | 36.51 | 0 | 37.46 | 37.46 | 0 | |
| 222080 | 34.09 | 34.09 | 0 | 35.4 | 35.4 | 0 | 36.84 | 36.84 | 0 | 37.54 | 37.54 | 0 | 39.09 | 39.09 | 0 | |
| 222090 | 39.2 | 39.2 | 0 | 39.5 | 39.5 | 0 | 39.64 | 39.64 | 0 | 39.71 | 39.71 | 0 | 40.07 | 40.07 | 0 | |
| 222100 | 35.31 | 35.31 | 0 | 36.09 | 36.09 | 0 | 37.81 | 37.81 | 0 | 38.38 | 38.38 | 0 | 39.88 | 39.88 | 0 | |
| 222110 | 37.2 | 37.2 | 0 | 37.89 | 37.89 | 0 | 38.19 | 38.19 | 0 | 38.42 | 38.42 | 0 | 39.89 | 39.89 | 0 | |
| 222130 | 34.91 | 34.91 | 0 | 35.69 | 35.69 | 0 | 36.99 | 36.99 | 0 | 38.13 | 38.13 | 0 | 39.33 | 39.33 | 0 | |
| 222140 | 36.6 | 36.6 | 0 | 38.38 | 38.38 | 0 | 38.45 | 38.45 | 0 | 38.53 | 38.53 | 0 | 39.33 | 39.33 | 0 | |
| 222150 | 33.34 | 33.34 | 0 | 35.51 | 35.51 | 0 | 36.36 | 36.36 | 0 | 36.59 | 36.59 | 0 | 37.59 | 37.59 | 0 | |
| 222160 | 33.99 | 33.99 | 0 | 35.59 | 35.59 | 0 | 36.4 | 36.4 | 0 | 36.63 | 36.63 | 0 | 37.6 | 37.6 | 0 | |
| 222170 | 32.68 | 32.68 | 0 | 34.09 | 34.09 | 0 | 35.02 | 35.02 | 0 | 36.05 | 36.05 | 0 | 37.59 | 37.59 | 0 | |
| 222180 | 32.7 | 32.7 | 0 | 34.52 | 34.52 | 0 | 35.91 | 35.91 | 0 | 36.17 | 36.17 | 0 | 36.75 | 36.75 | 0 | |
| 222190 | 37.07 | 37.07 | 0 | 37.61 | 37.61 | 0 | 37.71 | 37.71 | 0 | 37.77 | 37.77 | 0 | 37.94 | 37.94 | 0 | |
| 222200 | 33.26 | 33.26 | 0 | 35.19 | 35.19 | 0 | 36.02 | 36.02 | 0 | 36.24 | 36.24 | 0 | 36.77 | 36.77 | 0 | |
| 222300 | 39.02 | 39.02 | 0 | 39.36 | 39.36 | 0 | 40.03 | 40.03 | 0 | 40.45 | 40.45 | 0 | 42.08 | 42.08 | 0 | |
| 222310 | 39.97 | 39.97 | 0 | 41.35 | 41.35 | 0 | 41.69 | 41.69 | 0 | 41.78 | 41.78 | 0 | 42.19 | 42.19 | 0 | |
| 222320 | 36.25 | 36.25 | 0 | 38.89 | 38.89 | 0 | 39.55 | 39.55 | 0 | 39.88 | 39.88 | 0 | 41.41 | 41.41 | 0 | |
| 222330 | 38 | 38 | 0 | 38.91 | 38.91 | 0 | 39.55 | 39.55 | 0 | 39.88 | 39.88 | 0 | 41.41 | 41.41 | 0 | |
| 222340 | 35.39 | 35.39 | 0 | 37.75 | 37.75 | 0 | 39.12 | 39.12 | 0 | 39.62 | 39.62 | 0 | 41.17 | 41.17 | 0 | |
| 222350 | 37.46 | 37.46 | 0 | 38.07 | 38.07 | 0 | 39.12 | 39.12 | 0 | 39.62 | 39.62 | 0 | 41.17 | 41.17 | 0 | |
| 222360 | 35.55 | 35.55 | 0 | 36.02 | 36.02 | 0 | 36.29 | 36.29 | 0 | 36.51 | 36.51 | 0 | 37.86 | 37.86 | 0 | |
| 222370 | 37.79 | 37.79 | 0 | 40.57 | 40.57 | 0 | 41.13 | 41.13 | 0 | 41.36 | 41.36 | 0 | 43.16 | 43.16 | 0 | |
| 222380 | 40.84 | 40.84 | 0 | 41.92 | 41.92 | 0 | 42.25 | 42.25 | 0 | 42.38 | 42.38 | 0 | 43.2 | 43.2 | 0 | |
| 222390 | 40.5 | 40.5 | 0 | 43.17 | 43.17 | 0 | 43.26 | 43.26 | 0 | 43.35 | 43.35 | 0 | 43.84 | 43.84 | 0 | |
| 222400 | 41.4 | 41.4 | 0 | 43.56 | 43.56 | 0 | 44.26 | 44.26 | 0 | 44.36 | 44.36 | 0 | 44.63 | 44.63 | 0 | |
| 222410 | 41.75 | 41.75 | 0 | 43.64 | 43.64 | 0 | 44.38 | 44.38 | 0 | 44.53 | 44.53 | 0 | 45.09 | 45.09 | 0 | |
| 222420 | 44.13 | 44.13 | 0 | 44.62 | 44.62 | 0 | 44.91 | 44.91 | 0 | 45.08 | 45.08 | 0 | 45.83 | 45.83 | 0 | |
| 222430 | 34.78 | 34.78 | 0 | 37.76 | 37.76 | 0 | 39.13 | 39.13 | 0 | 39.63 | 39.63 | 0 | 41.29 | 41.29 | 0 | |
| 222440 | 36 | 36 | 0 | 38.18 | 38.18 | 0 | 40.64 | 40.64 | 0 | 41.71 | 41.71 | 0 | 44.12 | 44.12 | 0 | |
| 222450 | 35.63 | 35.63 | 0 | 37.76 | 37.76 | 0 | 39.65 | 39.65 | 0 | 40.66 | 40.66 | 0 | 43.06 | 43.06 | 0 | |
| 222460 | 35.27 | 35.27 | 0 | 38.84 | 38.84 | 0 | 41.68 | 41.68 | 0 | 42.39 | 42.39 | 0 | 43.52 | 43.52 | 0 | |
| 222470 | 35.34 | 35.34 | 0 | 38.88 | 38.88 | 0 | 41.71 | 41.71 | 0 | 42.4 | 42.4 | 0 | 43.16 | 43.16 | 0 | |
| 222480 | 35.53 | 35.53 | 0 | 37.28 | 37.28 | 0 | 39.09 | 39.09 | 0 | 39.78 | 39.78 | 0 | 41.6 | 41.6 | 0 | |
| 222485 | 36.61 | 36.61 | 0 | 37.02 | 37.02 | 0 | 37.22 | 37.22 | 0 | 37.31 | 37.31 | 0 | 37.76 | 37.76 | 0 | |
| 222490 | 34.12 | 34.12 | 0 | 36.61 | 36.61 | 0 | 37.7 | 37.7 | 0 | 37.97 | 37.97 | 0 | 39.84 | 39.84 | 0 | |
| 222495 | 38.45 | 38.45 | 0 | 38.74 | 38.74 | 0 | 38.88 | 38.88 | 0 | 38.94 | 38.94 | 0 | 39.26 | 39.26 | 0 | |
| 222500 | 37.61 | 37.61 | 0 | 37.84 | 37.84 | 0 | 38 | 38 | 0 | 38.07 | 38.07 | 0 | 39.84 | 39.84 | 0 | |
| 222505 | 42.83 | 42.83 | 0 | 44.04 | 44.04 | 0 | 44.46 | 44.46 | 0 | 44.65 | 44.65 | 0 | 45.5 | 45.5 | 0 | |
| 222510 | 38.03 | 38.03 | 0 | 39.06 | 39.06 | 0 | 39.71 | 39.71 | 0 | 40.06 | 40.06 | 0 | 41.28 | 41.28 | 0 | |
| 222520 | 40.71 | 40.71 | 0 | 40.89 | 40.89 | 0 | 40.96 | 40.96 | 0 | 40.99 | 40.99 | 0 | 41.31 | 41.31 | 0 | |
| 222530 | 34.09 | 34.09 | 0 | 36.47 | 36.47 | 0 | 37.46 | 37.46 | 0 | 37.87 | 37.87 | 0 | 39.84 | 39.84 | 0 | |
| 222540 | 34.09 | 34.09 | 0 | 36.47 | 36.47 | 0 | 37.46 | 37.46 | 0 | 37.87 | 37.87 | 0 | 39.84 | 39.84 | 0 | |
| 222550 | 34.09 | 34.09 | 0 | 36.47 | 36.47 | 0 | 37.46 | 37.46 | 0 | 37.87 | 37.87 | 0 | 39.84 | 39.84 | 0 | |
| 222560 | 34.15 | 34.15 | 0 | 36.47 | 36.47 | 0 | 37.46 | 37.46 | 0 | 37.87 | 37.87 | 0 | 39.84 | 39.84 | 0 | |
| 222570 | 34.09 | 34.09 | 0 | 36.48 | 36.48 | 0 | 37.47 | 37.47 | 0 | 37.87 | 37.87 | 0 | 39.84 | 39.84 | 0 | |
| 222580 | 34.09 | 34.09 | 0 | 36.48 | 36.48 | 0 | 37.47 | 37.47 | 0 | 37.87 | 37.87 | 0 | 39.84 | 39.84 | 0 | |
| 222590 | 35.95 | 35.95 | 0 | 36.81 | 36.81 | 0 | 37.46 | 37.46 | 0 | 37.86 | 37.86 | 0 | 39.84 | 39.84 | 0 | |
| 222600 | 35.93 | 35.93 | 0 | 36.78 | 36.78 | 0 | 37.44 | 37.44 | 0 | 37.86 | 37.86 | 0 | 39.84 | 39.84 | 0 | |
| 222610 | 35.38 | 35.38 | 0 | 36.56 | 36.56 | 0 | 37.47 | 37.47 | 0 | 37.87 | 37.87 | 0 | 39.84 | 39.84 | 0 | |
| 222620 | 37.25 | 37.25 | 0 | 38.84 | 38.84 | 0 | 38.9 | 38.9 | 0 | 38.98 | 38.98 | 0 | 39.84 | 3 | | |

Summary of Corrected and Revised Stages for Bridge

| Node | 2.33YR24HR | | | 25YR24HR | | | 50YR24HR | | | 100YR24HR | | | 500YR24HR | | | Notes |
|--------|--------------------------------|---------------------|-----------------|--------------------------------|---------------------|-----------------|--------------------------------|---------------------|-----------------|--------------------------------|---------------------|-----------------|--------------------------------|---------------------|-----------------|-------|
| | Corrected Effective Stage (ft) | Proposed Stage (ft) | Difference (ft) | Corrected Effective Stage (ft) | Proposed Stage (ft) | Difference (ft) | Corrected Effective Stage (ft) | Proposed Stage (ft) | Difference (ft) | Corrected Effective Stage (ft) | Proposed Stage (ft) | Difference (ft) | Corrected Effective Stage (ft) | Proposed Stage (ft) | Difference (ft) | |
| 222710 | 35.86 | 35.86 | 0 | 37.67 | 37.67 | 0 | 39.26 | 39.26 | 0 | 39.89 | 39.89 | 0 | 41.45 | 41.45 | 0 | |
| 222720 | 43.38 | 43.38 | 0 | 47.19 | 47.19 | 0 | 48.31 | 48.31 | 0 | 48.8 | 48.8 | 0 | 50.82 | 50.82 | 0 | |
| 222730 | 43.42 | 43.42 | 0 | 47.19 | 47.19 | 0 | 48.31 | 48.31 | 0 | 48.8 | 48.8 | 0 | 50.82 | 50.82 | 0 | |
| 222740 | 33.98 | 33.98 | 0 | 37.67 | 37.67 | 0 | 39.26 | 39.26 | 0 | 39.89 | 39.89 | 0 | 41.45 | 41.45 | 0 | |
| 222750 | 31.7 | 31.7 | 0 | 37.67 | 37.67 | 0 | 39.26 | 39.26 | 0 | 39.89 | 39.89 | 0 | 41.45 | 41.45 | 0 | |
| 222760 | 31.7 | 31.7 | 0 | 37.67 | 37.67 | 0 | 39.26 | 39.26 | 0 | 39.89 | 39.89 | 0 | 41.45 | 41.45 | 0 | |
| 222770 | 36.25 | 36.25 | 0 | 38.07 | 38.07 | 0 | 39.46 | 39.46 | 0 | 40.08 | 40.08 | 0 | 41.72 | 41.72 | 0 | |
| 222780 | 36.28 | 36.28 | 0 | 37.67 | 37.67 | 0 | 39.26 | 39.26 | 0 | 39.89 | 39.89 | 0 | 41.45 | 41.45 | 0 | |
| 222800 | 25.85 | 25.85 | 0 | 35.72 | 35.72 | 0 | 39.83 | 39.83 | 0 | 41.37 | 41.37 | 0 | 44.6 | 44.6 | 0 | |
| 222810 | 40.2 | 40.2 | 0 | 46.11 | 46.11 | 0 | 46.61 | 46.61 | 0 | 46.73 | 46.73 | 0 | 47.05 | 47.05 | 0 | |
| 222820 | 43.02 | 43.02 | 0 | 46.77 | 46.77 | 0 | 48.18 | 48.18 | 0 | 48.5 | 48.5 | 0 | 49.4 | 49.4 | 0 | |
| 222830 | 48.07 | 48.07 | 0 | 49.11 | 49.11 | 0 | 50.54 | 50.54 | 0 | 51.49 | 51.49 | 0 | 53.36 | 53.36 | 0 | |
| 222840 | 49.16 | 49.16 | 0 | 49.96 | 49.96 | 0 | 53.09 | 53.09 | 0 | 53.85 | 53.85 | 0 | 56.55 | 56.55 | 0 | |
| 222850 | 51.36 | 51.36 | 0 | 52.06 | 52.06 | 0 | 53.66 | 53.66 | 0 | 54.48 | 54.48 | 0 | 57.01 | 57.01 | 0 | |
| 222860 | 51.75 | 51.75 | 0 | 52.49 | 52.49 | 0 | 53.81 | 53.81 | 0 | 54.59 | 54.59 | 0 | 56.68 | 56.68 | 0 | |
| 222870 | 76.29 | 76.29 | 0 | 80.53 | 80.53 | 0 | 81.68 | 81.68 | 0 | 82.03 | 82.03 | 0 | 83 | 83 | 0 | |
| 222880 | 76.3 | 76.3 | 0 | 78.71 | 78.71 | 0 | 79.88 | 79.88 | 0 | 80.37 | 80.37 | 0 | 81.63 | 81.63 | 0 | |
| 222890 | 73.94 | 73.94 | 0 | 78.21 | 78.21 | 0 | 79.88 | 79.88 | 0 | 80.37 | 80.37 | 0 | 81.63 | 81.63 | 0 | |
| 222900 | 78.54 | 78.54 | 0 | 80.2 | 80.2 | 0 | 81.42 | 81.42 | 0 | 81.69 | 81.69 | 0 | 82.49 | 82.49 | 0 | |
| 222910 | 67.42 | 67.42 | 0 | 69.02 | 69.02 | 0 | 69.71 | 69.71 | 0 | 70.02 | 70.02 | 0 | 71.44 | 71.44 | 0 | |
| 222920 | 68.49 | 68.49 | 0 | 71.69 | 71.69 | 0 | 72.1 | 72.1 | 0 | 72.2 | 72.2 | 0 | 72.67 | 72.67 | 0 | |
| 222930 | 71.97 | 71.97 | 0 | 72.36 | 72.36 | 0 | 72.64 | 72.64 | 0 | 72.83 | 72.83 | 0 | 73.79 | 73.79 | 0 | |
| 222940 | 73.81 | 73.81 | 0 | 76.43 | 76.43 | 0 | 77.99 | 77.99 | 0 | 78.6 | 78.6 | 0 | 79.36 | 79.36 | 0 | |
| 222950 | 81.64 | 81.64 | 0 | 83.55 | 83.55 | 0 | 84.67 | 84.67 | 0 | 84.79 | 84.79 | 0 | 85.17 | 85.17 | 0 | |
| 222960 | 105.22 | 105.22 | 0 | 106.1 | 106.1 | 0 | 106.68 | 106.68 | 0 | 106.99 | 106.99 | 0 | 108.67 | 108.67 | 0 | |
| 222970 | 78.19 | 78.19 | 0 | 79.68 | 79.68 | 0 | 80.39 | 80.39 | 0 | 80.71 | 80.71 | 0 | 82.11 | 82.11 | 0 | |
| 222980 | 87.95 | 87.95 | 0 | 88.42 | 88.42 | 0 | 88.69 | 88.69 | 0 | 88.82 | 88.82 | 0 | 89.45 | 89.45 | 0 | |
| 222990 | 88.3 | 88.3 | 0 | 90.79 | 90.79 | 0 | 91.25 | 91.25 | 0 | 91.45 | 91.45 | 0 | 92.42 | 92.42 | 0 | |
| 223000 | 69.72 | 69.72 | 0 | 71.36 | 71.36 | 0 | 72.2 | 72.2 | 0 | 72.58 | 72.58 | 0 | 73.93 | 73.93 | 0 | |
| 223010 | 43.03 | 43.03 | 0 | 46.86 | 46.86 | 0 | 47.46 | 47.46 | 0 | 47.7 | 47.7 | 0 | 48.71 | 48.71 | 0 | |
| 223020 | 72.05 | 72.05 | 0 | 72.76 | 72.76 | 0 | 73.05 | 73.05 | 0 | 73.18 | 73.18 | 0 | 73.76 | 73.76 | 0 | |
| 223030 | 47.09 | 47.09 | 0 | 50.63 | 50.63 | 0 | 50.93 | 50.93 | 0 | 51.05 | 51.05 | 0 | 51.5 | 51.5 | 0 | |
| 223040 | 45.09 | 45.09 | 0 | 45.09 | 45.09 | 0 | 45.44 | 45.44 | 0 | 45.84 | 45.84 | 0 | 47.47 | 47.47 | 0 | |
| 223100 | 50.87 | 50.87 | 0 | 54.93 | 54.93 | 0 | 55.16 | 55.16 | 0 | 55.27 | 55.27 | 0 | 55.71 | 55.71 | 0 | |
| 223110 | 54.22 | 54.22 | 0 | 54.92 | 54.92 | 0 | 55.19 | 55.19 | 0 | 55.53 | 55.53 | 0 | 57.85 | 57.85 | 0 | |
| 223120 | 55.56 | 55.56 | 0 | 57.27 | 57.27 | 0 | 57.65 | 57.65 | 0 | 57.8 | 57.8 | 0 | 58.51 | 58.51 | 0 | |
| 223130 | 54.83 | 54.83 | 0 | 54.88 | 54.88 | 0 | 55.08 | 55.08 | 0 | 55.17 | 55.17 | 0 | 55.67 | 55.67 | 0 | |
| 223140 | 54.17 | 54.17 | 0 | 55.75 | 55.75 | 0 | 56.5 | 56.5 | 0 | 56.85 | 56.85 | 0 | 57.93 | 57.93 | 0 | |
| 223150 | 55.07 | 55.07 | 0 | 55.75 | 55.75 | 0 | 56.5 | 56.5 | 0 | 56.85 | 56.85 | 0 | 57.82 | 57.82 | 0 | |
| 223160 | 55.95 | 55.95 | 0 | 56.45 | 56.45 | 0 | 56.65 | 56.65 | 0 | 56.75 | 56.75 | 0 | 57.23 | 57.23 | 0 | |
| 223170 | 47.94 | 47.94 | 0 | 49.12 | 49.12 | 0 | 50.55 | 50.55 | 0 | 51.5 | 51.5 | 0 | 53.36 | 53.36 | 0 | |
| 223180 | 48.32 | 48.32 | 0 | 50 | 50 | 0 | 50.89 | 50.89 | 0 | 51.32 | 51.32 | 0 | 53.38 | 53.38 | 0 | |
| 223200 | 48.59 | 48.59 | 0 | 50.77 | 50.77 | 0 | 51.72 | 51.72 | 0 | 52.46 | 52.46 | 0 | 54.51 | 54.51 | 0 | |
| 223210 | 50.56 | 50.56 | 0 | 52.42 | 52.42 | 0 | 53.7 | 53.7 | 0 | 54.41 | 54.41 | 0 | 56.57 | 56.57 | 0 | |
| 223220 | 54.83 | 54.83 | 0 | 55.38 | 55.38 | 0 | 56.92 | 56.92 | 0 | 57.53 | 57.53 | 0 | 58.72 | 58.72 | 0 | |
| 223230 | 55.65 | 55.65 | 0 | 57.32 | 57.32 | 0 | 57.62 | 57.62 | 0 | 57.74 | 57.74 | 0 | 58.73 | 58.73 | 0 | |
| 223240 | 51.15 | 51.15 | 0 | 54.35 | 54.35 | 0 | 55.57 | 55.57 | 0 | 55.97 | 55.97 | 0 | 57.17 | 57.17 | 0 | |
| 223250 | 51.27 | 51.27 | 0 | 55.08 | 55.08 | 0 | 56.33 | 56.33 | 0 | 56.65 | 56.65 | 0 | 58.1 | 58.1 | 0 | |
| 223260 | 53.8 | 53.8 | 0 | 56 | 56 | 0 | 56.41 | 56.41 | 0 | 56.59 | 56.59 | 0 | 57.53 | 57.53 | 0 | |
| 223270 | 81.49 | 81.49 | 0 | 82.45 | 82.45 | 0 | 82.62 | 82.62 | 0 | 82.7 | 82.7 | 0 | 83.25 | 83.25 | 0 | |
| 223280 | 82.9 | 82.9 | 0 | 84.26 | 84.26 | 0 | 85.05 | 85.05 | 0 | 85.46 | 85.46 | 0 | 87.01 | 87.01 | 0 | |
| 223290 | 77.82 | 77.82 | 0 | 81.02 | 81.02 | 0 | 82.56 | 82.56 | 0 | 83.22 | 83.22 | 0 | 84.63 | 84.63 | 0 | |
| 223300 | 67.9 | 67.9 | 0 | 73.99 | 73.99 | 0 | 74.63 | 74.63 | 0 | 74.75 | 74.75 | 0 | 75.21 | 75.21 | 0 | |
| 223310 | 69.26 | 69.26 | 0 | 69.84 | 69.84 | 0 | 70.11 | 70.11 | 0 | 70.24 | 70.24 | 0 | 70.86 | 70.86 | 0 | |
| 223320 | 51.95 | 51.95 | 0 | 53.81 | 53.81 | 0 | 54.63 | 54.63 | 0 | 55.02 | 55.02 | 0 | 57.17 | 57.17 | 0 | |
| 223330 | 72.24 | 72.24 | 0 | 74.99 | 74.99 | 0 | 75.98 | 75.98 | 0 | 76.17 | 76.17 | 0 | 76.81 | 76.81 | 0 | |
| 223340 | 73.11 | 73.11 | 0 | 78.82 | 78.82 | 0 | 80.89 | 80.89 | 0 | 81.2 | 81.2 | 0 | 82.14 | 82.14 | 0 | |
| 223350 | 77.24 | 77.24 | 0 | 77.99 | 77.99 | 0 | 78.42 | 78.42 | 0 | 78.62 | 78.62 | 0 | 79.5 | 79.5 | 0 | |
| 223358 | 85.37 | 85.37 | 0 | 86.3 | 86.3 | 0 | 87.04 | 87.04 | 0 | 87.38 | 87.38 | 0 | 88.86 | 88.86 | 0 | |
| 223360 | 84.9 | 84.9 | 0 | 86.31 | 86.31 | 0 | 87.06 | 87.06 | 0 | 87.4 | 87.4 | 0 | 88.87 | 88.87 | 0 | |
| 223400 | 44.03 | 44.03 | 0 | 46.27 | 46.27 | 0 | 47.34 | 47.34 | 0 | 47.83 | 47.83 | 0 | 50.12 | 50.12 | 0 | |
| 223410 | 44.02 | 44.02 | 0 | 44.78 | 44.78 | 0 | 45.1 | 45.1 | 0 | 45.24 | 45.24 | 0 | 45.94 | 45.94 | 0 | |
| 223420 | 41.62 | 41.62 | 0 | 44.05 | 44.05 | 0 | 44.31 | 44.31 | 0 | 44.41 | 44.41 | 0 | 45.09 | 45.09 | 0 | |
| 223430 | 46.93 | 46.93 | 0 | 49.93 | 49.93 | 0 | 50.39 | 50.39 | 0 | 50.54 | 50.54 | 0 | 51.05 | 51.05 | 0 | |
| 223440 | 46.94 | 46.94 | 0 | 47.94 | 47.94 | 0 | 48.53 | 48.53 | 0 | 48.83 | 48.83 | 0 | 50.42 | 50.42 | 0 | |
| 223450 | 46.94 | 46.94 | 0 | 47.94 | 47.94 | 0 | 48.53 | 48.53 | 0 | 48.83 | 48.83 | 0 | 50.42 | 50.42 | 0 | |
| 223460 | 42.59 | 42.59 | 0 | 47.27 | 47.27 | 0 | 48.34 | 48.34 | 0 | 48.76 | 48.76 | 0 | 50.35 | 50.35 | 0 | |
| 223470 | 56.91 | 56.91 | 0 | 57.71 | 57.71 | 0 | 58.12 | 58.12 | 0 | 58.32 | 58.32 | 0 | 59.62 | 59.62 | 0 | |
| 223480 | 59.36 | 59.36 | 0 | 59.92 | 59.92 | 0 | 60.19 | 60.19 | 0 | 60.31 | 60.31 | 0 | 60.99 | 60.99 | 0 | |
| 223490 | 61.52 | 61.52 | 0 | 65.11 | 65.11 | 0 | 66.85 | 66.85 | 0 | 67.64 | 67.64 | 0 | 71.12 | 71.12 | 0 | |
| 223500 | 67.37 | 67.37 | 0 | 67.37 | 67.37 | 0 | 67.37 | 67.37 | 0 | 67.37 | 67.37 | 0 | 67.37 | 67.37 | 0 | |
| 223510 | 71.05 | 71.05 | 0 | 71.46 | 71.46 | 0 | 71.68 | 71.68 | 0 | 71.76 | 71.76 | 0 | 72.05 | 72.05 | 0 | |
| 223520 | 50.17 | 50.17 | 0 | 51.72 | 51.72 | 0 | 51.89 | 51.89 | 0 | 51.92 | 51.92 | 0 | 52.26 | 52.26 | 0 | |
| 223530 | 42.43 | 42.43 | 0 | 47.79 | 47.79 | 0 | 50.14 | 50.14 | 0 | 50.5 | 50.5 | 0 | 51.38 | 51.38 | 0 | |
| 223540 | 70.43 | 70.43 | 0 | 71.35 | 71.35 | 0 | 71.56 | 71.56 | 0 | 71.66 | 71.66 | 0 | 72.1 | 72.1 | 0 | |
| 223550 | 75.88 | 75.88 | 0 | 77.11 | 77.11 | 0 | 77.81 | 77.81 | 0 | 78 | 78 | 0 | 78.6 | 78.6 | 0 | |
| 223560 | 74.2 | 74.2 | 0 | 75.1 | 75.1 | 0 | 75.79 | 75.79 | 0 | 76.15 | 76.15 | 0 | 77.73 | 77.73 | 0 | |
| 230005 | 1.7 | 1.69 | -0.01 | 2.26 | 2.22 | -0.04 | 2.6 | 2.58 | -0.02 | 2.76 | 2.74 | -0.02 | 3.49 | 3.44 | -0.05 | |
| 230010 | 2.5 | 2.48 | -0.02 | 3.11 | 3.09 | -0.02 | 3.33 | 3.32 | -0.01 | 3.44 | 3.42 | -0.02 | 3.98 | 3.94 | -0.04 | |
| 230020 | 2.51 | 2.49 | -0.02 | 3.16 | 3.14 | -0.02 | 3.4 | 3.38 | -0.02 | 3.51 | 3.5 | -0.01 | 4.07 | 4.03 | -0.04 | |
| 230030 | 3.05 | 3.04 | -0.01 | 3.89 | 3.87 | -0.02 | 4.17 | 4.18 | 0.01 | 4.29 | 4.31 | 0.02 | 4.85 | 4.87 | 0.02 | |
| 230040 | 3.39 | 3.23 | -0.16 | 5.21 | 4.78 | -0.43 | 5.85 | 5.43 | -0.42 | 6.11 | 5.7 | -0.41 | 7.15 | 6.77 | -0.38 | |
| 230050 | 7.3 | 7.3 | 0 | 8.24 | 8.24 | 0 | 8.86 | 8.86 | 0 | 9.2 | 9.2 | 0 | 10.7 | | | |

Summary of Corrected and Revised Stages for Bridge

| Node | 2.33YR24HR | | | 25YR24HR | | | 50YR24HR | | | 100YR24HR | | | 500YR24HR | | | Notes |
|--------|--------------------------------|---------------------|-----------------|--------------------------------|---------------------|-----------------|--------------------------------|---------------------|-----------------|--------------------------------|---------------------|-----------------|--------------------------------|---------------------|-----------------|-------|
| | Corrected Effective Stage (ft) | Proposed Stage (ft) | Difference (ft) | Corrected Effective Stage (ft) | Proposed Stage (ft) | Difference (ft) | Corrected Effective Stage (ft) | Proposed Stage (ft) | Difference (ft) | Corrected Effective Stage (ft) | Proposed Stage (ft) | Difference (ft) | Corrected Effective Stage (ft) | Proposed Stage (ft) | Difference (ft) | |
| 230180 | 3.05 | 3.04 | -0.01 | 3.89 | 3.87 | -0.02 | 4.17 | 4.18 | 0.01 | 4.3 | 4.31 | 0.01 | 4.87 | 4.88 | 0.01 | |
| 230190 | 6.15 | 6.15 | 0 | 7.48 | 7.48 | 0 | 7.84 | 7.83 | -0.01 | 8 | 7.98 | -0.02 | 8.67 | 8.66 | -0.01 | |
| 230200 | 5.33 | 5.3 | -0.03 | 6.15 | 6.1 | -0.05 | 6.59 | 6.62 | 0.03 | 6.78 | 6.81 | 0.03 | 7.34 | 7.42 | 0.08 | |
| 230210 | 7.82 | 7.82 | 0 | 8.14 | 8.14 | 0 | 8.28 | 8.28 | 0 | 8.34 | 8.34 | 0 | 8.6 | 8.6 | 0 | |
| 230220 | 7.87 | 7.87 | 0 | 8.18 | 8.18 | 0 | 8.31 | 8.31 | 0 | 8.37 | 8.37 | 0 | 8.64 | 8.64 | 0 | |
| 230400 | 10.29 | 10.29 | 0 | 11.18 | 11.18 | 0 | 11.53 | 11.53 | 0 | 11.67 | 11.67 | 0 | 12.33 | 12.33 | 0 | |
| 230410 | 9.51 | 9.51 | 0 | 10.72 | 10.72 | 0 | 11.16 | 11.16 | 0 | 11.36 | 11.36 | 0 | 12.29 | 12.29 | 0 | |
| 230420 | 9.51 | 9.51 | 0 | 10.72 | 10.72 | 0 | 11.16 | 11.16 | 0 | 11.36 | 11.36 | 0 | 12.29 | 12.29 | 0 | |
| 230430 | 9.5 | 9.5 | 0 | 10.73 | 10.73 | 0 | 11.16 | 11.16 | 0 | 11.37 | 11.37 | 0 | 12.34 | 12.34 | 0 | |
| 230440 | 9.5 | 9.5 | 0 | 10.73 | 10.73 | 0 | 11.16 | 11.16 | 0 | 11.37 | 11.37 | 0 | 12.34 | 12.34 | 0 | |
| 230450 | 11.02 | 11.02 | 0 | 12.16 | 12.16 | 0 | 12.95 | 12.95 | 0 | 13.08 | 13.08 | 0 | 13.72 | 13.72 | 0 | |
| 230460 | 10.9 | 10.9 | 0 | 12.14 | 12.14 | 0 | 12.55 | 12.55 | 0 | 12.69 | 12.69 | 0 | 13.35 | 13.35 | 0 | |
| 230470 | 13.63 | 13.63 | 0 | 13.84 | 13.84 | 0 | 13.92 | 13.92 | 0 | 13.95 | 13.95 | 0 | 14.06 | 14.06 | 0 | |
| 230480 | 14.1 | 14.1 | 0 | 14.5 | 14.5 | 0 | 14.67 | 14.67 | 0 | 14.74 | 14.74 | 0 | 15.03 | 15.03 | 0 | |
| 230490 | 14.65 | 14.65 | 0 | 15.02 | 15.02 | 0 | 15.15 | 15.15 | 0 | 15.21 | 15.21 | 0 | 15.53 | 15.53 | 0 | |
| 240010 | 1.71 | 1.71 | 0 | 1.92 | 1.92 | 0 | 2.08 | 2.08 | 0 | 2.14 | 2.14 | 0 | 2.49 | 2.49 | 0 | |
| 240020 | 1.77 | 1.77 | 0 | 2.27 | 2.27 | 0 | 2.56 | 2.56 | 0 | 2.66 | 2.66 | 0 | 3.03 | 3.03 | 0 | |
| 240030 | 1.88 | 1.88 | 0 | 2.67 | 2.67 | 0 | 3.08 | 3.08 | 0 | 3.21 | 3.21 | 0 | 3.69 | 3.69 | 0 | |
| 240040 | 1.98 | 1.98 | 0 | 3.11 | 3.11 | 0 | 3.72 | 3.72 | 0 | 3.92 | 3.92 | 0 | 4.77 | 4.77 | 0 | |
| 240050 | 2.61 | 2.61 | 0 | 3.97 | 3.97 | 0 | 4.53 | 4.53 | 0 | 4.71 | 4.71 | 0 | 5.4 | 5.4 | 0 | |
| 240060 | 2.82 | 2.82 | 0 | 4.67 | 4.67 | 0 | 5.64 | 5.64 | 0 | 5.94 | 5.94 | 0 | 7.14 | 7.14 | 0 | |
| 240070 | 2.91 | 2.91 | 0 | 4.87 | 4.87 | 0 | 5.97 | 5.97 | 0 | 6.32 | 6.32 | 0 | 7.69 | 7.69 | 0 | |
| 240080 | 3.12 | 3.12 | 0 | 5.12 | 5.12 | 0 | 6.18 | 6.18 | 0 | 6.52 | 6.52 | 0 | 7.84 | 7.84 | 0 | |
| 240090 | 3.31 | 3.31 | 0 | 5.37 | 5.37 | 0 | 6.39 | 6.39 | 0 | 6.72 | 6.72 | 0 | 7.99 | 7.99 | 0 | |
| 240100 | 4.37 | 4.37 | 0 | 6.24 | 6.24 | 0 | 7.08 | 7.08 | 0 | 7.45 | 7.45 | 0 | 8.63 | 8.63 | 0 | |
| 240110 | 4.5 | 4.5 | 0 | 6.36 | 6.36 | 0 | 7.17 | 7.17 | 0 | 7.52 | 7.52 | 0 | 8.71 | 8.71 | 0 | |
| 240120 | 4.57 | 4.57 | 0 | 6.55 | 6.55 | 0 | 7.4 | 7.4 | 0 | 7.72 | 7.72 | 0 | 8.98 | 8.98 | 0 | |
| 240130 | 4.83 | 4.83 | 0 | 6.72 | 6.72 | 0 | 7.51 | 7.51 | 0 | 7.82 | 7.82 | 0 | 9.06 | 9.06 | 0 | |
| 240140 | 4.94 | 4.94 | 0 | 6.81 | 6.81 | 0 | 7.59 | 7.59 | 0 | 7.9 | 7.9 | 0 | 9.12 | 9.12 | 0 | |
| 240150 | 5.97 | 5.97 | 0 | 7.29 | 7.29 | 0 | 7.97 | 7.97 | 0 | 8.25 | 8.25 | 0 | 9.35 | 9.35 | 0 | |
| 240160 | 6.24 | 6.24 | 0 | 7.61 | 7.61 | 0 | 8.28 | 8.28 | 0 | 8.55 | 8.55 | 0 | 9.7 | 9.7 | 0 | |
| 240170 | 7.77 | 7.77 | 0 | 8.55 | 8.55 | 0 | 8.95 | 8.95 | 0 | 9.14 | 9.14 | 0 | 10.04 | 10.04 | 0 | |
| 240180 | 8.26 | 8.26 | 0 | 9.16 | 9.16 | 0 | 9.51 | 9.51 | 0 | 9.67 | 9.67 | 0 | 10.4 | 10.4 | 0 | |
| 240190 | 11.32 | 11.32 | 0 | 12.47 | 12.47 | 0 | 12.85 | 12.85 | 0 | 12.99 | 12.99 | 0 | 13.45 | 13.45 | 0 | |
| 240200 | 12.53 | 12.53 | 0 | 13.8 | 13.8 | 0 | 13.99 | 13.99 | 0 | 14.06 | 14.06 | 0 | 14.38 | 14.38 | 0 | |
| 240210 | 14.81 | 14.81 | 0 | 16.14 | 16.14 | 0 | 16.46 | 16.46 | 0 | 16.58 | 16.58 | 0 | 17.18 | 17.18 | 0 | |
| 240220 | 14.94 | 14.94 | 0 | 16.28 | 16.28 | 0 | 16.6 | 16.6 | 0 | 16.72 | 16.72 | 0 | 17.33 | 17.33 | 0 | |
| 240230 | 15.05 | 15.05 | 0 | 16.44 | 16.44 | 0 | 16.76 | 16.76 | 0 | 16.89 | 16.89 | 0 | 17.52 | 17.52 | 0 | |
| 240240 | 15.15 | 15.15 | 0 | 16.78 | 16.78 | 0 | 17.2 | 17.2 | 0 | 17.36 | 17.36 | 0 | 18.04 | 18.04 | 0 | |
| 240250 | 15.48 | 15.48 | 0 | 17.12 | 17.12 | 0 | 17.52 | 17.52 | 0 | 17.68 | 17.68 | 0 | 18.39 | 18.39 | 0 | |
| 240260 | 15.75 | 15.75 | 0 | 17.4 | 17.4 | 0 | 17.8 | 17.8 | 0 | 17.96 | 17.96 | 0 | 18.68 | 18.68 | 0 | |
| 240270 | 16.05 | 16.05 | 0 | 17.7 | 17.7 | 0 | 18.09 | 18.09 | 0 | 18.25 | 18.25 | 0 | 18.98 | 18.98 | 0 | |
| 240280 | 16.13 | 16.13 | 0 | 17.79 | 17.79 | 0 | 18.18 | 18.18 | 0 | 18.34 | 18.34 | 0 | 19.09 | 19.09 | 0 | |
| 240290 | 18.4 | 18.4 | 0 | 19.32 | 19.32 | 0 | 19.52 | 19.52 | 0 | 19.61 | 19.61 | 0 | 20.4 | 20.4 | 0 | |
| 240300 | 18.41 | 18.41 | 0 | 19.33 | 19.33 | 0 | 19.53 | 19.53 | 0 | 19.63 | 19.63 | 0 | 20.42 | 20.42 | 0 | |
| 240310 | 19.87 | 19.87 | 0 | 20.59 | 20.59 | 0 | 20.84 | 20.84 | 0 | 20.98 | 20.98 | 0 | 21.67 | 21.67 | 0 | |
| 240320 | 19.93 | 19.93 | 0 | 20.83 | 20.83 | 0 | 21.19 | 21.19 | 0 | 21.4 | 21.4 | 0 | 22.69 | 22.69 | 0 | |
| 240330 | 21.14 | 21.14 | 0 | 21.88 | 21.88 | 0 | 22.15 | 22.15 | 0 | 22.26 | 22.26 | 0 | 22.96 | 22.96 | 0 | |
| 240340 | 21.27 | 21.27 | 0 | 22.62 | 22.62 | 0 | 23.13 | 23.13 | 0 | 23.35 | 23.35 | 0 | 24.4 | 24.4 | 0 | |
| 240350 | 21.35 | 21.35 | 0 | 22.68 | 22.68 | 0 | 23.17 | 23.17 | 0 | 23.39 | 23.39 | 0 | 24.42 | 24.42 | 0 | |
| 240360 | 22.15 | 22.15 | 0 | 22.88 | 22.88 | 0 | 23.19 | 23.19 | 0 | 23.31 | 23.31 | 0 | 23.97 | 23.97 | 0 | |
| 240370 | 23.74 | 23.74 | 0 | 24.57 | 24.57 | 0 | 24.8 | 24.8 | 0 | 24.88 | 24.88 | 0 | 25.11 | 25.11 | 0 | |
| 240380 | 23.89 | 23.89 | 0 | 24.58 | 24.58 | 0 | 24.82 | 24.82 | 0 | 24.9 | 24.9 | 0 | 25.38 | 25.38 | 0 | |
| 240390 | 27.27 | 27.27 | 0 | 27.58 | 27.58 | 0 | 27.7 | 27.7 | 0 | 27.77 | 27.77 | 0 | 28.15 | 28.15 | 0 | |
| 240400 | 4.1 | 4.1 | 0 | 4.47 | 4.47 | 0 | 4.65 | 4.65 | 0 | 4.73 | 4.73 | 0 | 5.08 | 5.08 | 0 | |
| 240410 | 5.62 | 5.62 | 0 | 5.77 | 5.77 | 0 | 5.83 | 5.83 | 0 | 5.86 | 5.86 | 0 | 5.97 | 5.97 | 0 | |
| 240430 | 5.71 | 5.71 | 0 | 5.93 | 5.93 | 0 | 6.01 | 6.01 | 0 | 6.05 | 6.05 | 0 | 7.14 | 7.14 | 0 | |
| 240440 | 3.97 | 3.97 | 0 | 4.87 | 4.87 | 0 | 5.97 | 5.97 | 0 | 6.32 | 6.32 | 0 | 7.62 | 7.62 | 0 | |
| 240450 | 6.14 | 6.14 | 0 | 6.42 | 6.42 | 0 | 6.55 | 6.55 | 0 | 6.61 | 6.61 | 0 | 7.62 | 7.62 | 0 | |
| 240460 | 3.12 | 3.12 | 0 | 5.12 | 5.12 | 0 | 6.18 | 6.18 | 0 | 6.52 | 6.52 | 0 | 7.84 | 7.84 | 0 | |
| 240470 | 3.01 | 3.01 | 0 | 4.71 | 4.71 | 0 | 6.18 | 6.18 | 0 | 6.52 | 6.52 | 0 | 7.84 | 7.84 | 0 | |
| 240480 | 6.27 | 6.27 | 0 | 7.13 | 7.13 | 0 | 7.42 | 7.42 | 0 | 7.55 | 7.55 | 0 | 8.03 | 8.03 | 0 | |
| 240490 | 7.35 | 7.35 | 0 | 7.59 | 7.59 | 0 | 7.73 | 7.73 | 0 | 7.8 | 7.8 | 0 | 8.17 | 8.17 | 0 | |
| 240500 | 5.13 | 5.13 | 0 | 7.26 | 7.26 | 0 | 7.55 | 7.55 | 0 | 7.76 | 7.76 | 0 | 8.84 | 8.84 | 0 | |
| 240510 | 10.05 | 10.05 | 0 | 10.56 | 10.56 | 0 | 10.78 | 10.78 | 0 | 10.87 | 10.87 | 0 | 11.29 | 11.29 | 0 | |
| 240520 | 11.98 | 11.98 | 0 | 12.1 | 12.1 | 0 | 12.15 | 12.15 | 0 | 12.18 | 12.18 | 0 | 12.3 | 12.3 | 0 | |
| 240530 | 9.08 | 9.08 | 0 | 9.51 | 9.51 | 0 | 9.74 | 9.74 | 0 | 9.84 | 9.84 | 0 | 10.28 | 10.28 | 0 | |
| 240540 | 8.01 | 8.01 | 0 | 8.49 | 8.49 | 0 | 9.97 | 9.97 | 0 | 10.41 | 10.41 | 0 | 11.47 | 11.47 | 0 | |
| 240550 | 9.6 | 9.6 | 0 | 10.28 | 10.28 | 0 | 10.56 | 10.56 | 0 | 10.7 | 10.7 | 0 | 11.51 | 11.51 | 0 | |
| 240560 | 10.44 | 10.44 | 0 | 10.68 | 10.68 | 0 | 10.78 | 10.78 | 0 | 10.83 | 10.83 | 0 | 11.02 | 11.02 | 0 | |
| 240570 | 6.3 | 6.3 | 0 | 7.35 | 7.35 | 0 | 7.9 | 7.9 | 0 | 8.16 | 8.16 | 0 | 9.42 | 9.42 | 0 | |
| 240580 | 8.61 | 8.61 | 0 | 9.58 | 9.58 | 0 | 10.81 | 10.81 | 0 | 11.52 | 11.52 | 0 | 12.83 | 12.83 | 0 | |
| 240590 | 12.12 | 12.12 | 0 | 12.42 | 12.42 | 0 | 12.55 | 12.55 | 0 | 12.61 | 12.61 | 0 | 12.95 | 12.95 | 0 | |
| 240600 | 12.82 | 12.82 | 0 | 13 | 13 | 0 | 13.06 | 13.06 | 0 | 13.09 | 13.09 | 0 | 13.22 | 13.22 | 0 | |
| 240610 | 12.16 | 12.16 | 0 | 12.68 | 12.68 | 0 | 12.9 | 12.9 | 0 | 12.99 | 12.99 | 0 | 13.61 | 13.61 | 0 | |
| 240620 | 13.79 | 13.79 | 0 | 14.46 | 14.46 | 0 | 14.64 | 14.64 | 0 | 14.75 | 14.75 | 0 | 15.21 | 15.21 | 0 | |
| 240630 | 14.09 | 14.09 | 0 | 14.46 | 14.46 | 0 | 14.65 | 14.65 | 0 | 14.75 | 14.75 | 0 | 15.21 | 15.21 | 0 | |
| 240640 | 12.88 | 12.88 | 0 | 13.29 | 13.29 | 0 | 13.62 | 13.62 | 0 | 13.95 | 13.95 | 0 | 15.01 | 15.01 | 0 | |
| 240650 | 13.99 | 13.99 | 0 | 14.51 | 14.51 | 0 | 14.76 | 14.76 | 0 | 14.85 | 14.85 | 0 | 15.14 | 15.14 | 0 | |
| 240660 | 8.4 | 8.4 | 0 | 10.62 | 10.62 | 0 | 11.25 | 11.25 | 0 | 11.42 | 11.42 | 0 | 12.04 | 12.04 | 0 | |
| 240670 | 8.41 | 8.41 | 0 | 10.63 | 10.63 | 0 | 11.26 | 11.26 | 0 | 11.43 | 11.43 | 0 | 12.04 | 12.04 | 0 | |
| 240680 | 11.56 | 11.56 | 0 | 12.5 | 12.5 | 0 | 12.82 | 12.82 | 0 | 12.95 | 12.95 | 0 | 13.52 | 13.52 | 0 | |
| 240690 | 11.59 | 11.59 | 0 | 12.53 | 12.53 | 0 | 12.85 | 12.85 | 0 | 12.99 | 12.99 | 0 | 13.57 | 13.57 | 0 | |
| 240695 | 12.43 | 12.43 | 0 | 12.87 | 12.87 | 0 | 13.11 | 13.11 | 0 | 13.23 | 13.23 | 0 | 13.74 | 13.74 | 0 | |
| 240700 | 12.39 | 12.39 | 0 | 12.72 | 12.72 | 0 | 12.94 | 12.94 | 0 | 13.04 | 13.04 | 0 | 13.44 | 13.44 | 0 | |
| 240710 | 12 | | | | | | | | | | | | | | | |

Summary of Corrected and Revised Stages for Bridge

| Node | 2.33YR24HR | | | 25YR24HR | | | 50YR24HR | | | 100YR24HR | | | 500YR24HR | | | Notes |
|--------|--------------------------------|---------------------|-----------------|--------------------------------|---------------------|-----------------|--------------------------------|---------------------|-----------------|--------------------------------|---------------------|-----------------|--------------------------------|---------------------|-----------------|-------|
| | Corrected Effective Stage (ft) | Proposed Stage (ft) | Difference (ft) | Corrected Effective Stage (ft) | Proposed Stage (ft) | Difference (ft) | Corrected Effective Stage (ft) | Proposed Stage (ft) | Difference (ft) | Corrected Effective Stage (ft) | Proposed Stage (ft) | Difference (ft) | Corrected Effective Stage (ft) | Proposed Stage (ft) | Difference (ft) | |
| 240740 | 14.34 | 14.34 | 0 | 14.76 | 14.76 | 0 | 14.98 | 14.98 | 0 | 15.09 | 15.09 | 0 | 15.65 | 15.65 | 0 | |
| 240750 | 14.36 | 14.36 | 0 | 14.74 | 14.74 | 0 | 14.91 | 14.91 | 0 | 15 | 15 | 0 | 15.41 | 15.41 | 0 | |
| 240760 | 14.71 | 14.71 | 0 | 15.3 | 15.3 | 0 | 15.42 | 15.42 | 0 | 15.46 | 15.46 | 0 | 15.7 | 15.7 | 0 | |
| 240770 | 16.18 | 16.18 | 0 | 16.7 | 16.7 | 0 | 16.95 | 16.95 | 0 | 17.07 | 17.07 | 0 | 17.55 | 17.55 | 0 | |
| 240780 | 16.21 | 16.21 | 0 | 16.68 | 16.68 | 0 | 16.92 | 16.92 | 0 | 17.04 | 17.04 | 0 | 17.51 | 17.51 | 0 | |
| 240790 | 16.22 | 16.22 | 0 | 16.48 | 16.48 | 0 | 16.63 | 16.63 | 0 | 16.7 | 16.7 | 0 | 16.98 | 16.98 | 0 | |
| 240800 | 16.44 | 16.44 | 0 | 16.77 | 16.77 | 0 | 16.94 | 16.94 | 0 | 17.01 | 17.01 | 0 | 17.32 | 17.32 | 0 | |
| 240810 | 17.17 | 17.17 | 0 | 17.44 | 17.44 | 0 | 17.54 | 17.54 | 0 | 17.59 | 17.59 | 0 | 17.77 | 17.77 | 0 | |
| 240820 | 17.2 | 17.2 | 0 | 17.47 | 17.47 | 0 | 17.6 | 17.6 | 0 | 17.65 | 17.65 | 0 | 17.91 | 17.91 | 0 | |
| 240830 | 17.92 | 17.92 | 0 | 18.41 | 18.41 | 0 | 18.54 | 18.54 | 0 | 18.6 | 18.6 | 0 | 18.84 | 18.84 | 0 | |
| 240840 | 18.21 | 18.21 | 0 | 18.88 | 18.88 | 0 | 19.12 | 19.12 | 0 | 19.23 | 19.23 | 0 | 19.65 | 19.65 | 0 | |
| 240850 | 18.39 | 18.39 | 0 | 18.92 | 18.92 | 0 | 19.15 | 19.15 | 0 | 19.25 | 19.25 | 0 | 19.68 | 19.68 | 0 | |
| 240860 | 19.28 | 19.28 | 0 | 19.62 | 19.62 | 0 | 19.76 | 19.76 | 0 | 19.83 | 19.83 | 0 | 20.13 | 20.13 | 0 | |
| 240900 | 13.79 | 13.79 | 0 | 14.29 | 14.29 | 0 | 14.47 | 14.47 | 0 | 14.55 | 14.55 | 0 | 14.91 | 14.91 | 0 | |
| 240910 | 14.34 | 14.34 | 0 | 14.9 | 14.9 | 0 | 15.21 | 15.21 | 0 | 15.32 | 15.32 | 0 | 15.86 | 15.86 | 0 | |
| 240920 | 16.04 | 16.04 | 0 | 16.35 | 16.35 | 0 | 16.48 | 16.48 | 0 | 16.54 | 16.54 | 0 | 16.8 | 16.8 | 0 | |
| 240930 | 13.05 | 13.05 | 0 | 14.89 | 14.89 | 0 | 15.2 | 15.2 | 0 | 15.31 | 15.31 | 0 | 15.78 | 15.78 | 0 | |
| 240940 | 14.34 | 14.34 | 0 | 14.76 | 14.76 | 0 | 14.98 | 14.98 | 0 | 15.09 | 15.09 | 0 | 15.67 | 15.67 | 0 | |
| 240950 | 14.34 | 14.34 | 0 | 14.77 | 14.77 | 0 | 14.98 | 14.98 | 0 | 15.1 | 15.1 | 0 | 15.67 | 15.67 | 0 | |
| 241000 | 16.28 | 16.28 | 0 | 16.73 | 16.73 | 0 | 16.96 | 16.96 | 0 | 17.08 | 17.08 | 0 | 17.82 | 17.82 | 0 | |
| 241010 | 15.15 | 15.15 | 0 | 15.28 | 15.28 | 0 | 15.35 | 15.35 | 0 | 15.38 | 15.38 | 0 | 15.54 | 15.54 | 0 | |
| 241100 | 16.13 | 16.13 | 0 | 18.41 | 18.41 | 0 | 19.35 | 19.35 | 0 | 19.68 | 19.68 | 0 | 20.82 | 20.82 | 0 | |
| 241110 | 16.13 | 16.13 | 0 | 18.41 | 18.41 | 0 | 19.35 | 19.35 | 0 | 19.69 | 19.69 | 0 | 20.82 | 20.82 | 0 | |
| 241120 | 16.58 | 16.58 | 0 | 18.41 | 18.41 | 0 | 19.36 | 19.36 | 0 | 19.7 | 19.7 | 0 | 20.84 | 20.84 | 0 | |
| 241130 | 18.02 | 18.02 | 0 | 18.41 | 18.41 | 0 | 19.36 | 19.36 | 0 | 19.7 | 19.7 | 0 | 20.84 | 20.84 | 0 | |
| 241140 | 20.23 | 20.23 | 0 | 20.69 | 20.69 | 0 | 20.92 | 20.92 | 0 | 21.05 | 21.05 | 0 | 21.52 | 21.52 | 0 | |
| 241150 | 20.21 | 20.21 | 0 | 20.59 | 20.59 | 0 | 20.93 | 20.93 | 0 | 21.09 | 21.09 | 0 | 21.8 | 21.8 | 0 | |
| 241160 | 20.29 | 20.29 | 0 | 20.56 | 20.56 | 0 | 20.94 | 20.94 | 0 | 21.09 | 21.09 | 0 | 21.8 | 21.8 | 0 | |
| 241170 | 16.13 | 16.13 | 0 | 18.41 | 18.41 | 0 | 19.28 | 19.28 | 0 | 19.5 | 19.5 | 0 | 20.11 | 20.11 | 0 | |
| 241180 | 16.13 | 16.13 | 0 | 18.41 | 18.41 | 0 | 19.27 | 19.27 | 0 | 19.5 | 19.5 | 0 | 20.09 | 20.09 | 0 | |
| 241190 | 16.13 | 16.13 | 0 | 18.41 | 18.41 | 0 | 19.27 | 19.27 | 0 | 19.5 | 19.5 | 0 | 20.09 | 20.09 | 0 | |
| 241200 | 16.56 | 16.56 | 0 | 18.41 | 18.41 | 0 | 19.27 | 19.27 | 0 | 19.5 | 19.5 | 0 | 20.09 | 20.09 | 0 | |
| 241210 | 17.53 | 17.53 | 0 | 18.41 | 18.41 | 0 | 19.24 | 19.24 | 0 | 19.42 | 19.42 | 0 | 19.81 | 19.81 | 0 | |
| 241220 | 16.13 | 16.13 | 0 | 18.41 | 18.41 | 0 | 19.36 | 19.36 | 0 | 19.81 | 19.81 | 0 | 21.56 | 21.56 | 0 | |
| 241230 | 16.47 | 16.47 | 0 | 18.56 | 18.56 | 0 | 19.36 | 19.36 | 0 | 19.82 | 19.82 | 0 | 21.56 | 21.56 | 0 | |
| 241240 | 19.34 | 19.34 | 0 | 19.97 | 19.97 | 0 | 20.14 | 20.14 | 0 | 20.21 | 20.21 | 0 | 21.58 | 21.58 | 0 | |
| 241250 | 19.32 | 19.32 | 0 | 20.06 | 20.06 | 0 | 20.59 | 20.59 | 0 | 20.79 | 20.79 | 0 | 21.5 | 21.5 | 0 | |
| 241260 | 19.24 | 19.24 | 0 | 20.56 | 20.56 | 0 | 20.93 | 20.93 | 0 | 21.09 | 21.09 | 0 | 21.8 | 21.8 | 0 | |
| 241270 | 19.56 | 19.56 | 0 | 20.56 | 20.56 | 0 | 20.94 | 20.94 | 0 | 21.09 | 21.09 | 0 | 21.8 | 21.8 | 0 | |
| 241300 | 18.57 | 18.57 | 0 | 19.58 | 19.58 | 0 | 19.76 | 19.76 | 0 | 19.85 | 19.85 | 0 | 20.82 | 20.82 | 0 | |
| 241310 | 18.94 | 18.94 | 0 | 20.24 | 20.24 | 0 | 20.45 | 20.45 | 0 | 20.56 | 20.56 | 0 | 21.11 | 21.11 | 0 | |
| 241320 | 19.31 | 19.31 | 0 | 20.8 | 20.8 | 0 | 21.09 | 21.09 | 0 | 21.23 | 21.23 | 0 | 21.73 | 21.73 | 0 | |
| 241330 | 19.55 | 19.55 | 0 | 20.92 | 20.92 | 0 | 21.19 | 21.19 | 0 | 21.3 | 21.3 | 0 | 21.74 | 21.74 | 0 | |
| 241340 | 19.84 | 19.84 | 0 | 21.23 | 21.23 | 0 | 21.58 | 21.58 | 0 | 21.72 | 21.72 | 0 | 22.28 | 22.28 | 0 | |
| 241350 | 19.87 | 19.87 | 0 | 21.35 | 21.35 | 0 | 21.74 | 21.74 | 0 | 21.9 | 21.9 | 0 | 22.54 | 22.54 | 0 | |
| 241360 | 20.88 | 20.88 | 0 | 22.12 | 22.12 | 0 | 22.44 | 22.44 | 0 | 22.58 | 22.58 | 0 | 23.13 | 23.13 | 0 | |
| 241370 | 20.91 | 20.91 | 0 | 22.16 | 22.16 | 0 | 22.49 | 22.49 | 0 | 22.62 | 22.62 | 0 | 23.18 | 23.18 | 0 | |
| 241380 | 21.12 | 21.12 | 0 | 22.21 | 22.21 | 0 | 22.53 | 22.53 | 0 | 22.66 | 22.66 | 0 | 23.2 | 23.2 | 0 | |
| 241390 | 21.13 | 21.13 | 0 | 22.26 | 22.26 | 0 | 22.65 | 22.65 | 0 | 22.8 | 22.8 | 0 | 23.39 | 23.39 | 0 | |
| 241400 | 21.14 | 21.14 | 0 | 22.37 | 22.37 | 0 | 22.8 | 22.8 | 0 | 22.97 | 22.97 | 0 | 23.66 | 23.66 | 0 | |
| 241410 | 21.16 | 21.16 | 0 | 22.99 | 22.99 | 0 | 23.5 | 23.5 | 0 | 23.7 | 23.7 | 0 | 24.62 | 24.62 | 0 | |
| 241420 | 21.18 | 21.18 | 0 | 23.15 | 23.15 | 0 | 23.57 | 23.57 | 0 | 23.76 | 23.76 | 0 | 24.64 | 24.64 | 0 | |
| 241430 | 21.2 | 21.2 | 0 | 23.58 | 23.58 | 0 | 24.14 | 24.14 | 0 | 24.35 | 24.35 | 0 | 25.06 | 25.06 | 0 | |
| 241440 | 21.4 | 21.4 | 0 | 25.04 | 25.04 | 0 | 25.99 | 25.99 | 0 | 26.22 | 26.22 | 0 | 26.55 | 26.55 | 0 | |
| 241450 | 25.11 | 25.11 | 0 | 25.27 | 25.27 | 0 | 26.44 | 26.44 | 0 | 26.95 | 26.95 | 0 | 28.31 | 28.31 | 0 | |
| 241460 | 26.78 | 26.78 | 0 | 26.91 | 26.91 | 0 | 27.15 | 27.15 | 0 | 27.38 | 27.38 | 0 | 29.12 | 29.12 | 0 | |
| 241470 | 28.02 | 28.02 | 0 | 28.66 | 28.66 | 0 | 28.88 | 28.88 | 0 | 28.96 | 28.96 | 0 | 29.28 | 29.28 | 0 | |
| 241500 | 18.57 | 18.57 | 0 | 19.58 | 19.58 | 0 | 19.76 | 19.76 | 0 | 19.85 | 19.85 | 0 | 20.82 | 20.82 | 0 | |
| 241510 | 18.57 | 18.57 | 0 | 19.58 | 19.58 | 0 | 19.78 | 19.78 | 0 | 19.89 | 19.89 | 0 | 21.41 | 21.41 | 0 | |
| 241520 | 20.13 | 20.13 | 0 | 20.8 | 20.8 | 0 | 21.04 | 21.04 | 0 | 21.14 | 21.14 | 0 | 21.74 | 21.74 | 0 | |
| 241530 | 18.57 | 18.57 | 0 | 19.58 | 19.58 | 0 | 19.76 | 19.76 | 0 | 19.85 | 19.85 | 0 | 21 | 21 | 0 | |
| 241540 | 20.16 | 20.16 | 0 | 20.52 | 20.52 | 0 | 20.66 | 20.66 | 0 | 20.71 | 20.71 | 0 | 21.13 | 21.13 | 0 | |
| 241550 | 18.94 | 18.94 | 0 | 20.24 | 20.24 | 0 | 20.46 | 20.46 | 0 | 20.57 | 20.58 | 0.01 | 21.6 | 21.6 | 0 | |
| 241560 | 18.94 | 18.94 | 0 | 20.24 | 20.24 | 0 | 20.47 | 20.47 | 0 | 20.81 | 20.81 | 0 | 21.95 | 21.95 | 0 | |
| 241570 | 20.99 | 20.99 | 0 | 21.44 | 21.44 | 0 | 21.66 | 21.66 | 0 | 21.76 | 21.76 | 0 | 22.39 | 22.39 | 0 | |
| 241580 | 21.05 | 21.05 | 0 | 21.49 | 21.49 | 0 | 21.7 | 21.7 | 0 | 21.8 | 21.8 | 0 | 22.39 | 22.39 | 0 | |
| 241590 | 20.74 | 20.74 | 0 | 21.28 | 21.28 | 0 | 21.42 | 21.42 | 0 | 21.49 | 21.49 | 0 | 21.82 | 21.82 | 0 | |
| 241600 | 26.37 | 26.37 | 0 | 27.25 | 27.25 | 0 | 28.5 | 28.5 | 0 | 28.84 | 28.84 | 0 | 29.96 | 29.96 | 0 | |
| 241610 | 28.18 | 28.18 | 0 | 28.79 | 28.79 | 0 | 28.93 | 28.93 | 0 | 29.08 | 29.08 | 0 | 29.99 | 29.99 | 0 | |
| 241620 | 28.19 | 28.19 | 0 | 29.02 | 29.02 | 0 | 29.33 | 29.33 | 0 | 29.51 | 29.51 | 0 | 30.31 | 30.31 | 0 | |
| 241630 | 28.19 | 28.19 | 0 | 29.02 | 29.02 | 0 | 29.33 | 29.33 | 0 | 29.51 | 29.51 | 0 | 30.28 | 30.28 | 0 | |
| 241640 | 28.78 | 28.78 | 0 | 29.29 | 29.29 | 0 | 29.52 | 29.52 | 0 | 29.63 | 29.63 | 0 | 30.25 | 30.25 | 0 | |
| 241650 | 28.78 | 28.78 | 0 | 29.29 | 29.29 | 0 | 29.52 | 29.52 | 0 | 29.63 | 29.63 | 0 | 30.25 | 30.25 | 0 | |
| 241660 | 29.13 | 29.13 | 0 | 29.33 | 29.33 | 0 | 29.45 | 29.45 | 0 | 29.51 | 29.51 | 0 | 30.31 | 30.31 | 0 | |
| 241670 | 27.73 | 27.73 | 0 | 28.06 | 28.06 | 0 | 28.52 | 28.52 | 0 | 28.87 | 28.87 | 0 | 29.98 | 29.98 | 0 | |
| 241680 | 29.64 | 29.64 | 0 | 30.27 | 30.27 | 0 | 30.51 | 30.51 | 0 | 30.61 | 30.61 | 0 | 30.89 | 30.89 | 0 | |
| 241690 | 28.24 | 28.24 | 0 | 29.13 | 29.13 | 0 | 29.43 | 29.43 | 0 | 29.59 | 29.59 | 0 | 30.34 | 30.34 | 0 | |
| 241695 | 28.24 | 28.24 | 0 | 29.15 | 29.15 | 0 | 29.45 | 29.45 | 0 | 29.62 | 29.62 | 0 | 30.38 | 30.38 | 0 | |
| 241700 | 19.43 | 19.43 | 0 | 20.96 | 20.96 | 0 | 21.29 | 21.29 | 0 | 21.44 | 21.44 | 0 | 22.01 | 22.01 | 0 | |
| 241710 | 20.64 | 20.64 | 0 | 22.15 | 22.15 | 0 | 22.51 | 22.51 | 0 | 22.67 | 22.67 | 0 | 23.23 | 23.23 | 0 | |
| 241720 | 20.76 | 20.76 | 0 | 22.59 | 22.59 | 0 | 23.06 | 23.06 | 0 | 23.27 | 23.27 | 0 | 24.11 | 24.11 | 0 | |
| 241730 | 20.86 | 20.86 | 0 | 22.99 | 22.99 | 0 | 23.54 | 23.54 | 0 | 23.77 | 23.77 | 0 | 24.64 | 24.64 | 0 | |
| 241740 | 20.96 | 20.96 | 0 | 23.36 | 23.36 | 0 | 23.97 | 23.97 | 0 | 24.22 | 24.22 | 0 | 25.19</ | | | |

Summary of Corrected and Revised Stages for Bridge

| Node | 2.33YR24HR | | | 25YR24HR | | | 50YR24HR | | | 100YR24HR | | | 500YR24HR | | | Notes |
|--------|--------------------------------|---------------------|-----------------|--------------------------------|---------------------|-----------------|--------------------------------|---------------------|-----------------|--------------------------------|---------------------|-----------------|--------------------------------|---------------------|-----------------|-------|
| | Corrected Effective Stage (ft) | Proposed Stage (ft) | Difference (ft) | Corrected Effective Stage (ft) | Proposed Stage (ft) | Difference (ft) | Corrected Effective Stage (ft) | Proposed Stage (ft) | Difference (ft) | Corrected Effective Stage (ft) | Proposed Stage (ft) | Difference (ft) | Corrected Effective Stage (ft) | Proposed Stage (ft) | Difference (ft) | |
| 241800 | 22.44 | 22.44 | 0 | 26.54 | 26.54 | 0 | 27.59 | 27.59 | 0 | 27.98 | 27.98 | 0 | 29.48 | 29.48 | 0 | |
| 241810 | 24.3 | 24.3 | 0 | 26.98 | 26.98 | 0 | 27.98 | 27.98 | 0 | 28.34 | 28.34 | 0 | 29.7 | 29.7 | 0 | |
| 242100 | 20.71 | 20.71 | 0 | 22.27 | 22.27 | 0 | 23.1 | 23.1 | 0 | 23.44 | 23.44 | 0 | 24.64 | 24.64 | 0 | |
| 242110 | 22.15 | 22.15 | 0 | 22.92 | 22.92 | 0 | 23.4 | 23.4 | 0 | 23.64 | 23.64 | 0 | 24.7 | 24.7 | 0 | |
| 242120 | 24.45 | 24.45 | 0 | 26.15 | 26.15 | 0 | 26.46 | 26.46 | 0 | 26.58 | 26.58 | 0 | 27.06 | 27.06 | 0 | |
| 242130 | 25.13 | 25.13 | 0 | 26.18 | 26.18 | 0 | 26.48 | 26.48 | 0 | 26.59 | 26.59 | 0 | 27.06 | 27.06 | 0 | |
| 242140 | 25.18 | 25.18 | 0 | 26.27 | 26.27 | 0 | 26.7 | 26.7 | 0 | 26.89 | 26.89 | 0 | 27.61 | 27.61 | 0 | |
| 242150 | 25.5 | 25.5 | 0 | 26.27 | 26.27 | 0 | 26.7 | 26.7 | 0 | 26.89 | 26.89 | 0 | 27.61 | 27.61 | 0 | |
| 242160 | 20.64 | 20.64 | 0 | 22.31 | 22.31 | 0 | 22.88 | 22.88 | 0 | 23.13 | 23.13 | 0 | 24.12 | 24.12 | 0 | |
| 242170 | 21.54 | 21.54 | 0 | 22.38 | 22.38 | 0 | 22.9 | 22.9 | 0 | 23.14 | 23.14 | 0 | 24.13 | 24.13 | 0 | |
| 242180 | 21.98 | 21.98 | 0 | 26.19 | 26.19 | 0 | 27.26 | 27.26 | 0 | 27.7 | 27.7 | 0 | 30.17 | 30.17 | 0 | |
| 242190 | 28.81 | 28.81 | 0 | 29.55 | 29.55 | 0 | 29.83 | 29.83 | 0 | 29.95 | 29.95 | 0 | 30.49 | 30.49 | 0 | |
| 242200 | 28.82 | 28.82 | 0 | 29.58 | 29.58 | 0 | 29.91 | 29.91 | 0 | 30.11 | 30.11 | 0 | 30.92 | 30.92 | 0 | |
| 242210 | 28.83 | 28.83 | 0 | 29.25 | 29.25 | 0 | 29.44 | 29.44 | 0 | 29.53 | 29.53 | 0 | 29.94 | 29.94 | 0 | |
| 242220 | 28.77 | 28.77 | 0 | 29.52 | 29.52 | 0 | 29.81 | 29.81 | 0 | 29.94 | 29.94 | 0 | 30.49 | 30.49 | 0 | |
| 242230 | 28.77 | 28.77 | 0 | 29.23 | 29.23 | 0 | 29.55 | 29.55 | 0 | 29.67 | 29.67 | 0 | 30.26 | 30.26 | 0 | |
| 242300 | 27.83 | 27.83 | 0 | 29.23 | 29.23 | 0 | 29.54 | 29.54 | 0 | 29.66 | 29.66 | 0 | 30.26 | 30.26 | 0 | |
| 242310 | 28.03 | 28.03 | 0 | 29.23 | 29.23 | 0 | 29.55 | 29.55 | 0 | 29.66 | 29.66 | 0 | 30.26 | 30.26 | 0 | |
| 242320 | 28.62 | 28.62 | 0 | 29.3 | 29.3 | 0 | 29.55 | 29.55 | 0 | 29.66 | 29.66 | 0 | 30.26 | 30.26 | 0 | |
| 242330 | 28.99 | 28.99 | 0 | 29.51 | 29.51 | 0 | 29.78 | 29.78 | 0 | 29.9 | 29.9 | 0 | 30.41 | 30.41 | 0 | |
| 242400 | 19.58 | 19.58 | 0 | 20.99 | 20.99 | 0 | 21.37 | 21.37 | 0 | 21.56 | 21.56 | 0 | 22.37 | 22.37 | 0 | |
| 242410 | 19.6 | 19.6 | 0 | 21 | 21 | 0 | 21.38 | 21.38 | 0 | 21.56 | 21.56 | 0 | 22.38 | 22.38 | 0 | |
| 242420 | 23.88 | 23.88 | 0 | 24.44 | 24.44 | 0 | 24.68 | 24.68 | 0 | 24.79 | 24.79 | 0 | 25.25 | 25.25 | 0 | |
| 242430 | 24.47 | 24.47 | 0 | 25.59 | 25.59 | 0 | 25.89 | 25.89 | 0 | 26.01 | 26.01 | 0 | 26.56 | 26.56 | 0 | |
| 242440 | 25.51 | 25.51 | 0 | 26.09 | 26.09 | 0 | 26.41 | 26.41 | 0 | 26.65 | 26.65 | 0 | 27.83 | 27.83 | 0 | |
| 242450 | 26.48 | 26.48 | 0 | 27.02 | 27.02 | 0 | 27.29 | 27.29 | 0 | 27.51 | 27.51 | 0 | 28.42 | 28.42 | 0 | |
| 242460 | 28.14 | 28.14 | 0 | 28.39 | 28.39 | 0 | 28.51 | 28.51 | 0 | 28.57 | 28.57 | 0 | 28.9 | 28.9 | 0 | |
| 242470 | 28.6 | 28.6 | 0 | 29.45 | 29.45 | 0 | 29.75 | 29.75 | 0 | 29.88 | 29.88 | 0 | 30.44 | 30.44 | 0 | |
| 242480 | 26.24 | 26.24 | 0 | 26.31 | 26.31 | 0 | 26.34 | 26.34 | 0 | 26.35 | 26.35 | 0 | 26.56 | 26.56 | 0 | |
| 242490 | 24.78 | 24.78 | 0 | 27.68 | 27.68 | 0 | 28.03 | 28.03 | 0 | 28.14 | 28.14 | 0 | 28.53 | 28.53 | 0 | |
| 242500 | 26.45 | 26.45 | 0 | 27.87 | 27.87 | 0 | 28.12 | 28.12 | 0 | 28.2 | 28.2 | 0 | 28.55 | 28.55 | 0 | |
| 242510 | 25.51 | 25.51 | 0 | 26.1 | 26.1 | 0 | 26.42 | 26.42 | 0 | 26.71 | 26.71 | 0 | 29.01 | 29.01 | 0 | |
| 242520 | 26.84 | 26.84 | 0 | 27.95 | 27.95 | 0 | 28.42 | 28.42 | 0 | 28.51 | 28.51 | 0 | 29.12 | 29.12 | 0 | |
| 242530 | 20.89 | 20.89 | 0 | 22.12 | 22.12 | 0 | 22.49 | 22.49 | 0 | 22.63 | 22.63 | 0 | 23.21 | 23.21 | 0 | |
| 242540 | 20.87 | 20.87 | 0 | 22.13 | 22.13 | 0 | 22.5 | 22.5 | 0 | 22.64 | 22.64 | 0 | 23.22 | 23.22 | 0 | |
| 242550 | 20.87 | 20.87 | 0 | 22.13 | 22.13 | 0 | 22.5 | 22.5 | 0 | 22.64 | 22.64 | 0 | 23.23 | 23.23 | 0 | |
| 242560 | 21.14 | 21.14 | 0 | 22.21 | 22.21 | 0 | 22.53 | 22.53 | 0 | 22.65 | 22.65 | 0 | 23.16 | 23.16 | 0 | |
| 242570 | 21.2 | 21.2 | 0 | 22.06 | 22.06 | 0 | 22.21 | 22.21 | 0 | 22.27 | 22.27 | 0 | 22.58 | 22.58 | 0 | |
| 242600 | 21.18 | 21.18 | 0 | 22.26 | 22.26 | 0 | 22.54 | 22.54 | 0 | 22.65 | 22.65 | 0 | 23.16 | 23.16 | 0 | |
| 242610 | 21.23 | 21.23 | 0 | 22.31 | 22.31 | 0 | 22.54 | 22.54 | 0 | 22.65 | 22.65 | 0 | 23.16 | 23.16 | 0 | |
| 242615 | 21.37 | 21.37 | 0 | 22.38 | 22.38 | 0 | 22.5 | 22.5 | 0 | 22.56 | 22.56 | 0 | 22.8 | 22.8 | 0 | |
| 242620 | 18.59 | 18.59 | 0 | 19.7 | 19.7 | 0 | 20.26 | 20.26 | 0 | 21.24 | 21.25 | 0.01 | 23.4 | 23.4 | 0 | |
| 242630 | 20.4 | 20.4 | 0 | 21.66 | 21.66 | 0 | 22.21 | 22.21 | 0 | 22.38 | 22.38 | 0 | 23.41 | 23.41 | 0 | |
| 242640 | 19.87 | 19.87 | 0 | 20.61 | 20.61 | 0 | 20.88 | 20.88 | 0 | 21.02 | 21.02 | 0 | 21.78 | 21.78 | 0 | |
| 242650 | 21.93 | 21.93 | 0 | 22.48 | 22.48 | 0 | 22.87 | 22.87 | 0 | 23.06 | 23.06 | 0 | 23.86 | 23.86 | 0 | |
| 242660 | 19.98 | 19.98 | 0 | 20.87 | 20.87 | 0 | 21.23 | 21.23 | 0 | 21.44 | 21.44 | 0 | 22.97 | 22.97 | 0 | |
| 242670 | 20.64 | 20.64 | 0 | 22.14 | 22.14 | 0 | 22.64 | 22.64 | 0 | 22.82 | 22.82 | 0 | 23.38 | 23.38 | 0 | |
| 242680 | 21.15 | 21.15 | 0 | 21.9 | 21.9 | 0 | 22.17 | 22.17 | 0 | 22.26 | 22.26 | 0 | 22.74 | 22.74 | 0 | |
| 242690 | 21.15 | 21.15 | 0 | 21.9 | 21.9 | 0 | 22.17 | 22.17 | 0 | 22.26 | 22.26 | 0 | 22.74 | 22.74 | 0 | |
| 242700 | 22.08 | 22.08 | 0 | 23.01 | 23.01 | 0 | 23.45 | 23.45 | 0 | 23.65 | 23.65 | 0 | 24.58 | 24.58 | 0 | |
| 242710 | 22.18 | 22.18 | 0 | 23.13 | 23.13 | 0 | 23.56 | 23.56 | 0 | 23.75 | 23.75 | 0 | 24.61 | 24.61 | 0 | |
| 242720 | 22.53 | 22.53 | 0 | 23.15 | 23.15 | 0 | 23.56 | 23.56 | 0 | 23.76 | 23.76 | 0 | 24.67 | 24.67 | 0 | |
| 242730 | 22.68 | 22.68 | 0 | 23.18 | 23.18 | 0 | 23.61 | 23.61 | 0 | 23.81 | 23.81 | 0 | 26.01 | 26.01 | 0 | |
| 242740 | 25.94 | 25.94 | 0 | 26.69 | 26.69 | 0 | 27.09 | 27.09 | 0 | 27.28 | 27.28 | 0 | 27.84 | 27.84 | 0 | |
| 242800 | 9.81 | 9.81 | 0 | 10.4 | 10.4 | 0 | 10.5 | 10.5 | 0 | 10.58 | 10.58 | 0 | 11.12 | 11.12 | 0 | |
| 242810 | 11.19 | 11.19 | 0 | 11.84 | 11.84 | 0 | 11.99 | 11.99 | 0 | 12.06 | 12.06 | 0 | 12.36 | 12.36 | 0 | |
| 242820 | 12.8 | 12.8 | 0 | 13.28 | 13.28 | 0 | 13.43 | 13.43 | 0 | 13.49 | 13.49 | 0 | 13.78 | 13.78 | 0 | |
| 242830 | 12.63 | 12.63 | 0 | 13.29 | 13.29 | 0 | 13.43 | 13.43 | 0 | 13.49 | 13.49 | 0 | 13.78 | 13.78 | 0 | |
| 242840 | 12.84 | 12.84 | 0 | 13.52 | 13.52 | 0 | 13.99 | 13.99 | 0 | 14.3 | 14.3 | 0 | 15.31 | 15.31 | 0 | |
| 242850 | 13.85 | 13.85 | 0 | 14.47 | 14.47 | 0 | 14.75 | 14.75 | 0 | 14.86 | 14.86 | 0 | 15.4 | 15.4 | 0 | |
| 242860 | 18.94 | 18.94 | 0 | 20.25 | 20.25 | 0 | 21.18 | 21.18 | 0 | 21.47 | 21.47 | 0 | 22.35 | 22.35 | 0 | |
| 242870 | 20.63 | 20.63 | 0 | 21.12 | 21.12 | 0 | 21.38 | 21.38 | 0 | 21.56 | 21.56 | 0 | 22.36 | 22.36 | 0 | |
| 250005 | 1.71 | 1.71 | 0 | 2.06 | 2.06 | 0 | 2.34 | 2.34 | 0 | 2.48 | 2.48 | 0 | 3.17 | 3.17 | 0 | |
| 250010 | 1.79 | 1.79 | 0 | 2.22 | 2.22 | 0 | 2.51 | 2.51 | 0 | 2.66 | 2.66 | 0 | 3.33 | 3.33 | 0 | |
| 250020 | 3.21 | 3.21 | 0 | 3.79 | 3.79 | 0 | 4.03 | 4.03 | 0 | 4.13 | 4.13 | 0 | 4.49 | 4.49 | 0 | |
| 250030 | 3.58 | 3.58 | 0 | 4.49 | 4.49 | 0 | 4.73 | 4.73 | 0 | 4.83 | 4.83 | 0 | 5.2 | 5.2 | 0 | |
| 250040 | 4.43 | 4.43 | 0 | 4.8 | 4.8 | 0 | 5 | 5 | 0 | 5.09 | 5.09 | 0 | 5.44 | 5.44 | 0 | |
| 250050 | 5.58 | 5.58 | 0 | 5.9 | 5.9 | 0 | 6.04 | 6.04 | 0 | 6.1 | 6.1 | 0 | 6.36 | 6.36 | 0 | |
| 250060 | 6.62 | 6.62 | 0 | 6.87 | 6.87 | 0 | 7.03 | 7.02 | -0.01 | 7.09 | 7.09 | 0 | 7.34 | 7.33 | -0.01 | |
| 250070 | 7.01 | 7.01 | 0 | 7.5 | 7.5 | 0 | 7.85 | 7.83 | -0.02 | 8 | 7.99 | -0.01 | 8.67 | 8.66 | -0.01 | |
| 250080 | 7.17 | 7.17 | 0 | 7.58 | 7.58 | 0 | 7.9 | 7.89 | -0.01 | 8.04 | 8.03 | -0.01 | 8.7 | 8.68 | -0.02 | |
| 250090 | 8.52 | 8.52 | 0 | 8.78 | 8.78 | 0 | 8.9 | 8.9 | 0 | 8.95 | 8.95 | 0 | 9.15 | 9.15 | 0 | |
| 250100 | 8.74 | 8.74 | 0 | 9.05 | 9.05 | 0 | 9.14 | 9.14 | 0 | 9.18 | 9.18 | 0 | 9.36 | 9.36 | 0 | |
| 250110 | 9.51 | 9.51 | 0 | 10.72 | 10.72 | 0 | 11.16 | 11.16 | 0 | 11.37 | 11.37 | 0 | 12.34 | 12.34 | 0 | |
| 250120 | 11.18 | 11.18 | 0 | 11.72 | 11.72 | 0 | 11.87 | 11.87 | 0 | 11.95 | 11.95 | 0 | 12.38 | 12.38 | 0 | |
| 250130 | 12.14 | 12.14 | 0 | 12.72 | 12.72 | 0 | 12.96 | 12.96 | 0 | 13.08 | 13.08 | 0 | 13.59 | 13.59 | 0 | |
| 250140 | 12.38 | 12.38 | 0 | 12.9 | 12.9 | 0 | 13.12 | 13.12 | 0 | 13.23 | 13.23 | 0 | 13.71 | 13.71 | 0 | |
| 250150 | 12.44 | 12.44 | 0 | 13.02 | 13.02 | 0 | 13.28 | 13.28 | 0 | 13.4 | 13.4 | 0 | 13.95 | 13.95 | 0 | |
| 250160 | 12.96 | 12.96 | 0 | 13.28 | 13.28 | 0 | 13.47 | 13.47 | 0 | 13.57 | 13.57 | 0 | 14.01 | 14.01 | 0 | |
| 250170 | 12.98 | 12.98 | 0 | 13.29 | 13.29 | 0 | 13.49 | 13.49 | 0 | 13.58 | 13.58 | 0 | 14.02 | 14.02 | 0 | |
| 250180 | 14.27 | 14.27 | 0 | 15.03 | 15.03 | 0 | 15.43 | 15.43 | 0 | 15.65 | 15.65 | 0 | 16.45 | 16.45 | 0 | |
| 250190 | 14.86 | 14.86 | 0 | 15.87 | 15.87 | 0 | 16.14 | 16.14 | 0 | 16.23 | 16.23 | 0 | 16.64 | 16.64 | 0 | |
| 250200 | 15.49 | 15.49 | 0 | 16.01 | 16.01 | 0 | 16.24 | 16.24 | 0 | 16.32 | 16.32 | 0 | 16.69 | 16.69 | 0 | |
| 250210 | 15.61 | 15.61 | 0 | 16.34 | 16.34 | 0 | 16.55 | 16. | | | | | | | | |

Summary of Corrected and Revised Stages for Bridge

| Node | 2.33YR24HR | | | 25YR24HR | | | 50YR24HR | | | 100YR24HR | | | 500YR24HR | | | Notes |
|--------|--------------------------------|---------------------|-----------------|--------------------------------|---------------------|-----------------|--------------------------------|---------------------|-----------------|--------------------------------|---------------------|-----------------|--------------------------------|---------------------|-----------------|-------|
| | Corrected Effective Stage (ft) | Proposed Stage (ft) | Difference (ft) | Corrected Effective Stage (ft) | Proposed Stage (ft) | Difference (ft) | Corrected Effective Stage (ft) | Proposed Stage (ft) | Difference (ft) | Corrected Effective Stage (ft) | Proposed Stage (ft) | Difference (ft) | Corrected Effective Stage (ft) | Proposed Stage (ft) | Difference (ft) | |
| 250330 | 8.71 | 8.71 | 0 | 8.94 | 8.94 | 0 | 9.03 | 9.03 | 0 | 9.06 | 9.06 | 0 | 9.2 | 9.2 | 0 | |
| 250340 | 8.7 | 8.7 | 0 | 8.87 | 8.87 | 0 | 8.95 | 8.95 | 0 | 8.98 | 8.98 | 0 | 9.14 | 9.14 | 0 | |
| 250400 | 9.81 | 9.81 | 0 | 11.6 | 11.6 | 0 | 11.77 | 11.77 | 0 | 11.85 | 11.85 | 0 | 12.41 | 12.41 | 0 | |
| 250410 | 11.79 | 11.79 | 0 | 12.53 | 12.53 | 0 | 12.86 | 12.86 | 0 | 13 | 13 | 0 | 13.64 | 13.64 | 0 | |
| 250420 | 11.71 | 11.71 | 0 | 12.32 | 12.32 | 0 | 12.53 | 12.53 | 0 | 12.61 | 12.61 | 0 | 12.95 | 12.95 | 0 | |
| 250430 | 11.71 | 11.71 | 0 | 12.31 | 12.31 | 0 | 12.51 | 12.51 | 0 | 12.59 | 12.59 | 0 | 12.92 | 12.92 | 0 | |
| 250440 | 11.42 | 11.42 | 0 | 11.73 | 11.73 | 0 | 11.9 | 11.9 | 0 | 11.98 | 11.98 | 0 | 12.33 | 12.33 | 0 | |
| 250450 | 12.18 | 12.18 | 0 | 12.91 | 12.91 | 0 | 13.21 | 13.21 | 0 | 13.33 | 13.33 | 0 | 13.88 | 13.88 | 0 | |
| 250460 | 11.81 | 11.81 | 0 | 12.55 | 12.55 | 0 | 12.87 | 12.87 | 0 | 13.01 | 13.01 | 0 | 13.65 | 13.65 | 0 | |
| 250470 | 11.82 | 11.82 | 0 | 12.55 | 12.55 | 0 | 12.87 | 12.87 | 0 | 13.02 | 13.02 | 0 | 13.65 | 13.65 | 0 | |
| 250480 | 11.73 | 11.73 | 0 | 12.34 | 12.34 | 0 | 12.56 | 12.56 | 0 | 12.69 | 12.69 | 0 | 13.77 | 13.77 | 0 | |
| 250490 | 12.43 | 12.43 | 0 | 12.96 | 12.96 | 0 | 13.23 | 13.23 | 0 | 13.34 | 13.34 | 0 | 13.81 | 13.81 | 0 | |
| 260010 | 2.05 | 2.05 | 0 | 2.56 | 2.56 | 0 | 2.77 | 2.77 | 0 | 2.87 | 2.87 | 0 | 3.43 | 3.43 | 0 | |
| 260020 | 3.39 | 3.39 | 0 | 4.33 | 4.33 | 0 | 4.65 | 4.65 | 0 | 4.81 | 4.81 | 0 | 5.55 | 5.55 | 0 | |
| 260030 | 3.55 | 3.55 | 0 | 4.52 | 4.52 | 0 | 4.85 | 4.85 | 0 | 5.02 | 5.02 | 0 | 5.78 | 5.78 | 0 | |
| 260040 | 3.6 | 3.6 | 0 | 4.66 | 4.66 | 0 | 5.03 | 5.03 | 0 | 5.22 | 5.22 | 0 | 6.14 | 6.14 | 0 | |
| 260050 | 3.85 | 3.85 | 0 | 5 | 5 | 0 | 5.39 | 5.39 | 0 | 5.59 | 5.59 | 0 | 6.53 | 6.53 | 0 | |
| 260060 | 4.02 | 4.02 | 0 | 5.58 | 5.58 | 0 | 6.2 | 6.2 | 0 | 6.49 | 6.49 | 0 | 7.62 | 7.62 | 0 | |
| 260070 | 4.45 | 4.45 | 0 | 5.84 | 5.84 | 0 | 6.4 | 6.4 | 0 | 6.67 | 6.67 | 0 | 7.78 | 7.78 | 0 | |
| 260080 | 4.56 | 4.56 | 0 | 5.91 | 5.91 | 0 | 6.46 | 6.46 | 0 | 6.73 | 6.73 | 0 | 7.83 | 7.83 | 0 | |
| 260090 | 4.63 | 4.63 | 0 | 6.01 | 6.01 | 0 | 6.55 | 6.55 | 0 | 6.83 | 6.83 | 0 | 7.94 | 7.94 | 0 | |
| 260100 | 6.06 | 6.06 | 0 | 7.57 | 7.57 | 0 | 8.03 | 8.03 | 0 | 8.23 | 8.23 | 0 | 9.05 | 9.05 | 0 | |
| 260110 | 6.5 | 6.5 | 0 | 8.2 | 8.2 | 0 | 8.77 | 8.77 | 0 | 9 | 9 | 0 | 9.81 | 9.81 | 0 | |
| 260120 | 6.55 | 6.55 | 0 | 8.31 | 8.31 | 0 | 8.93 | 8.93 | 0 | 9.17 | 9.17 | 0 | 10 | 10 | 0 | |
| 260130 | 6.57 | 6.57 | 0 | 8.36 | 8.36 | 0 | 8.99 | 8.99 | 0 | 9.24 | 9.24 | 0 | 10.08 | 10.08 | 0 | |
| 260140 | 6.69 | 6.69 | 0 | 8.6 | 8.6 | 0 | 9.28 | 9.28 | 0 | 9.55 | 9.55 | 0 | 10.39 | 10.39 | 0 | |
| 260150 | 6.7 | 6.7 | 0 | 8.62 | 8.62 | 0 | 9.3 | 9.3 | 0 | 9.56 | 9.56 | 0 | 10.41 | 10.41 | 0 | |
| 260160 | 6.74 | 6.74 | 0 | 8.78 | 8.78 | 0 | 9.58 | 9.58 | 0 | 9.91 | 9.91 | 0 | 10.96 | 10.96 | 0 | |
| 260170 | 6.77 | 6.77 | 0 | 8.81 | 8.81 | 0 | 9.61 | 9.61 | 0 | 9.93 | 9.93 | 0 | 10.99 | 10.99 | 0 | |
| 260180 | 9.87 | 9.87 | 0 | 10.62 | 10.62 | 0 | 11.06 | 11.06 | 0 | 11.3 | 11.3 | 0 | 12.07 | 12.07 | 0 | |
| 260190 | 10.02 | 10.02 | 0 | 10.98 | 10.98 | 0 | 11.54 | 11.54 | 0 | 11.79 | 11.79 | 0 | 12.55 | 12.55 | 0 | |
| 260200 | 10.07 | 10.07 | 0 | 11.19 | 11.19 | 0 | 11.89 | 11.89 | 0 | 12.22 | 12.22 | 0 | 13.3 | 13.3 | 0 | |
| 260210 | 10.08 | 10.08 | 0 | 11.21 | 11.21 | 0 | 11.94 | 11.94 | 0 | 12.27 | 12.27 | 0 | 13.34 | 13.34 | 0 | |
| 260220 | 10.15 | 10.15 | 0 | 11.47 | 11.47 | 0 | 12.29 | 12.29 | 0 | 12.65 | 12.65 | 0 | 13.9 | 13.9 | 0 | |
| 260230 | 10.5 | 10.5 | 0 | 12.38 | 12.38 | 0 | 13.2 | 13.2 | 0 | 13.53 | 13.53 | 0 | 14.66 | 14.66 | 0 | |
| 260240 | 10.53 | 10.53 | 0 | 12.58 | 12.58 | 0 | 13.46 | 13.46 | 0 | 13.81 | 13.81 | 0 | 14.99 | 14.99 | 0 | |
| 260250 | 11.16 | 11.16 | 0 | 12.93 | 12.93 | 0 | 13.76 | 13.76 | 0 | 14.1 | 14.1 | 0 | 15.24 | 15.24 | 0 | |
| 260260 | 14.47 | 14.47 | 0 | 15.29 | 15.29 | 0 | 15.55 | 15.55 | 0 | 15.66 | 15.66 | 0 | 16.16 | 16.16 | 0 | |
| 260270 | 14.73 | 14.73 | 0 | 15.66 | 15.66 | 0 | 16.01 | 16.01 | 0 | 16.15 | 16.15 | 0 | 16.7 | 16.7 | 0 | |
| 260280 | 14.8 | 14.8 | 0 | 15.79 | 15.79 | 0 | 16.15 | 16.15 | 0 | 16.29 | 16.29 | 0 | 16.85 | 16.85 | 0 | |
| 260290 | 14.82 | 14.82 | 0 | 15.84 | 15.84 | 0 | 16.22 | 16.22 | 0 | 16.37 | 16.37 | 0 | 16.97 | 16.97 | 0 | |
| 260300 | 14.83 | 14.83 | 0 | 15.86 | 15.86 | 0 | 16.24 | 16.24 | 0 | 16.4 | 16.4 | 0 | 17 | 17 | 0 | |
| 260310 | 16.71 | 16.71 | 0 | 17.85 | 17.85 | 0 | 18.27 | 18.27 | 0 | 18.44 | 18.44 | 0 | 19.01 | 19.01 | 0 | |
| 260320 | 16.76 | 16.76 | 0 | 17.97 | 17.97 | 0 | 18.44 | 18.44 | 0 | 18.63 | 18.63 | 0 | 19.3 | 19.3 | 0 | |
| 260330 | 18.2 | 18.2 | 0 | 19.4 | 19.4 | 0 | 19.85 | 19.85 | 0 | 20.04 | 20.04 | 0 | 20.74 | 20.74 | 0 | |
| 260340 | 18.34 | 18.34 | 0 | 19.78 | 19.78 | 0 | 20.33 | 20.33 | 0 | 20.57 | 20.57 | 0 | 21.51 | 21.51 | 0 | |
| 260350 | 18.89 | 18.89 | 0 | 20.33 | 20.33 | 0 | 20.83 | 20.83 | 0 | 21.05 | 21.05 | 0 | 21.94 | 21.94 | 0 | |
| 260360 | 19.33 | 19.33 | 0 | 20.81 | 20.81 | 0 | 21.31 | 21.31 | 0 | 21.51 | 21.51 | 0 | 22.28 | 22.28 | 0 | |
| 260370 | 19.4 | 19.4 | 0 | 20.98 | 20.98 | 0 | 21.55 | 21.55 | 0 | 21.79 | 21.79 | 0 | 22.76 | 22.76 | 0 | |
| 260380 | 20.22 | 20.22 | 0 | 21.75 | 21.75 | 0 | 22.33 | 22.33 | 0 | 22.56 | 22.56 | 0 | 23.57 | 23.57 | 0 | |
| 260390 | 22.86 | 22.86 | 0 | 24.22 | 24.22 | 0 | 24.86 | 24.86 | 0 | 25.13 | 25.13 | 0 | 26.24 | 26.24 | 0 | |
| 260400 | 22.95 | 22.95 | 0 | 24.32 | 24.32 | 0 | 24.97 | 24.97 | 0 | 25.25 | 25.25 | 0 | 26.49 | 26.49 | 0 | |
| 260410 | 24.61 | 24.61 | 0 | 25.47 | 25.47 | 0 | 26.09 | 26.09 | 0 | 26.32 | 26.32 | 0 | 27.11 | 27.11 | 0 | |
| 260420 | 24.73 | 24.73 | 0 | 25.71 | 25.71 | 0 | 26.44 | 26.44 | 0 | 26.72 | 26.72 | 0 | 27.72 | 27.72 | 0 | |
| 260430 | 25.01 | 25.01 | 0 | 25.97 | 25.97 | 0 | 26.68 | 26.68 | 0 | 26.95 | 26.95 | 0 | 27.91 | 27.91 | 0 | |
| 260440 | 25.36 | 25.36 | 0 | 26.73 | 26.73 | 0 | 27.34 | 27.34 | 0 | 27.7 | 27.7 | 0 | 28.76 | 28.76 | 0 | |
| 260450 | 25.41 | 25.41 | 0 | 26.77 | 26.77 | 0 | 27.37 | 27.37 | 0 | 27.72 | 27.72 | 0 | 28.77 | 28.77 | 0 | |
| 260460 | 25.62 | 25.62 | 0 | 27.2 | 27.2 | 0 | 27.82 | 27.82 | 0 | 28.14 | 28.14 | 0 | 29.21 | 29.21 | 0 | |
| 260470 | 25.78 | 25.78 | 0 | 27.29 | 27.29 | 0 | 27.9 | 27.9 | 0 | 28.19 | 28.19 | 0 | 29.24 | 29.24 | 0 | |
| 260480 | 25.97 | 25.97 | 0 | 27.73 | 27.73 | 0 | 28.44 | 28.44 | 0 | 28.74 | 28.74 | 0 | 29.76 | 29.76 | 0 | |
| 260490 | 26.12 | 26.12 | 0 | 27.81 | 27.81 | 0 | 28.5 | 28.5 | 0 | 28.79 | 28.79 | 0 | 29.79 | 29.79 | 0 | |
| 260500 | 26.13 | 26.13 | 0 | 27.83 | 27.83 | 0 | 28.53 | 28.53 | 0 | 28.82 | 28.82 | 0 | 29.81 | 29.81 | 0 | |
| 260510 | 26.15 | 26.15 | 0 | 27.84 | 27.84 | 0 | 28.54 | 28.54 | 0 | 28.82 | 28.82 | 0 | 29.84 | 29.84 | 0 | |
| 260520 | 26.17 | 26.17 | 0 | 27.85 | 27.85 | 0 | 28.54 | 28.54 | 0 | 28.82 | 28.82 | 0 | 29.84 | 29.84 | 0 | |
| 260530 | 26.17 | 26.17 | 0 | 27.86 | 27.86 | 0 | 28.54 | 28.54 | 0 | 28.83 | 28.83 | 0 | 29.84 | 29.84 | 0 | |
| 260540 | 26.19 | 26.19 | 0 | 27.86 | 27.86 | 0 | 28.55 | 28.55 | 0 | 28.83 | 28.83 | 0 | 29.84 | 29.84 | 0 | |
| 260545 | 26.2 | 26.2 | 0 | 27.86 | 27.86 | 0 | 28.55 | 28.55 | 0 | 28.83 | 28.83 | 0 | 29.84 | 29.84 | 0 | |
| 260550 | 26.26 | 26.26 | 0 | 27.86 | 27.86 | 0 | 28.55 | 28.55 | 0 | 28.83 | 28.83 | 0 | 29.84 | 29.84 | 0 | |
| 260560 | 26.27 | 26.27 | 0 | 27.86 | 27.86 | 0 | 28.55 | 28.55 | 0 | 28.83 | 28.83 | 0 | 29.83 | 29.83 | 0 | |
| 260570 | 26.33 | 26.33 | 0 | 27.86 | 27.86 | 0 | 28.55 | 28.55 | 0 | 28.83 | 28.83 | 0 | 29.82 | 29.82 | 0 | |
| 260580 | 26.36 | 26.36 | 0 | 27.86 | 27.86 | 0 | 28.55 | 28.55 | 0 | 28.83 | 28.83 | 0 | 29.81 | 29.81 | 0 | |
| 260590 | 26.41 | 26.41 | 0 | 27.86 | 27.86 | 0 | 28.55 | 28.55 | 0 | 28.83 | 28.83 | 0 | 29.8 | 29.8 | 0 | |
| 260600 | 26.44 | 26.44 | 0 | 27.86 | 27.86 | 0 | 28.55 | 28.55 | 0 | 28.83 | 28.83 | 0 | 29.79 | 29.79 | 0 | |
| 260610 | 26.46 | 26.46 | 0 | 27.86 | 27.86 | 0 | 28.55 | 28.55 | 0 | 28.83 | 28.83 | 0 | 29.79 | 29.79 | 0 | |
| 260620 | 26.47 | 26.47 | 0 | 27.86 | 27.86 | 0 | 28.55 | 28.55 | 0 | 28.83 | 28.83 | 0 | 29.79 | 29.79 | 0 | |
| 260630 | 26.5 | 26.5 | 0 | 27.95 | 27.95 | 0 | 28.55 | 28.55 | 0 | 28.82 | 28.82 | 0 | 29.78 | 29.78 | 0 | |
| 260640 | 26.53 | 26.53 | 0 | 27.98 | 27.98 | 0 | 28.55 | 28.55 | 0 | 28.82 | 28.82 | 0 | 29.77 | 29.77 | 0 | |
| 260650 | 26.55 | 26.55 | 0 | 28.06 | 28.06 | 0 | 28.58 | 28.58 | 0 | 28.82 | 28.82 | 0 | 29.78 | 29.78 | 0 | |
| 260660 | 26.58 | 26.58 | 0 | 28.15 | 28.15 | 0 | 28.66 | 28.66 | 0 | 28.84 | 28.84 | 0 | 29.78 | 29.78 | 0 | |
| 260670 | 26.59 | 26.59 | 0 | 28.2 | 28.2 | 0 | 28.72 | 28.72 | 0 | 28.9 | 28.9 | 0 | 29.79 | 29.79 | 0 | |
| 260680 | 26.62 | 26.62 | 0 | 28.33 | 28.33 | 0 | 28.83 | 28.83 | 0 | 29.03 | 29.03 | 0 | 29.79 | 29.79 | 0 | |
| 260690 | 27.47 | 27.47 | 0 | 28.71 | 28.71 | 0 | 29.22 | 29.22 | 0 | 29.42 | 29.42 | 0 | 30.19 | 30.19 | 0 | |
| 260700 | 27.57 | 27.57 | 0 | 28.88 | 28.88 | 0 | 29.42 | 29.42 | 0 | 29.6 | 29.6 | 0 | 30.22 | 30.22 | 0 | |
| 260710 | 29.11 | 29.11 | 0 | 29.43 | 29.43 | 0 | 29.58 | 29.58 | 0 | 29.67 | 29.67 | 0 | 30.23 | 30.23 | 0 | |
| 260720 | 28.61 | 28.61 | | | | | | | | | | | | | | |

Summary of Corrected and Revised Stages for Bridge

| Node | 2.33YR24HR | | | 25YR24HR | | | 50YR24HR | | | 100YR24HR | | | 500YR24HR | | | Notes |
|--------|--------------------------------|---------------------|-----------------|--------------------------------|---------------------|-----------------|--------------------------------|---------------------|-----------------|--------------------------------|---------------------|-----------------|--------------------------------|---------------------|-----------------|-------|
| | Corrected Effective Stage (ft) | Proposed Stage (ft) | Difference (ft) | Corrected Effective Stage (ft) | Proposed Stage (ft) | Difference (ft) | Corrected Effective Stage (ft) | Proposed Stage (ft) | Difference (ft) | Corrected Effective Stage (ft) | Proposed Stage (ft) | Difference (ft) | Corrected Effective Stage (ft) | Proposed Stage (ft) | Difference (ft) | |
| 260830 | 5.15 | 5.15 | 0 | 5.94 | 5.94 | 0 | 6.27 | 6.27 | 0 | 6.49 | 6.49 | 0 | 7.62 | 7.62 | 0 | |
| 260840 | 5.16 | 5.16 | 0 | 5.94 | 5.94 | 0 | 6.27 | 6.27 | 0 | 6.49 | 6.49 | 0 | 7.62 | 7.62 | 0 | |
| 260850 | 4.59 | 4.59 | 0 | 6.36 | 6.36 | 0 | 7.07 | 7.07 | 0 | 7.38 | 7.38 | 0 | 8.58 | 8.58 | 0 | |
| 260860 | 11.97 | 11.97 | 0 | 12.63 | 12.63 | 0 | 13.03 | 13.03 | 0 | 13.24 | 13.24 | 0 | 14.28 | 14.28 | 0 | |
| 260870 | 197.04 | 197.04 | 0 | 197.37 | 197.37 | 0 | 197.56 | 197.56 | 0 | 197.66 | 197.66 | 0 | 198.16 | 198.16 | 0 | |
| 260900 | 6.73 | 6.73 | 0 | 8.65 | 8.65 | 0 | 9.34 | 9.34 | 0 | 9.6 | 9.6 | 0 | 10.43 | 10.43 | 0 | |
| 260910 | 6.8 | 6.8 | 0 | 9 | 9 | 0 | 9.93 | 9.93 | 0 | 10.23 | 10.23 | 0 | 11.16 | 11.16 | 0 | |
| 260920 | 7.77 | 7.77 | 0 | 9.33 | 9.33 | 0 | 10.15 | 10.15 | 0 | 10.43 | 10.43 | 0 | 11.3 | 11.3 | 0 | |
| 260930 | 9.65 | 9.65 | 0 | 10.52 | 10.52 | 0 | 11.04 | 11.04 | 0 | 11.26 | 11.26 | 0 | 11.97 | 11.97 | 0 | |
| 260940 | 9.77 | 9.77 | 0 | 10.88 | 10.88 | 0 | 11.57 | 11.57 | 0 | 11.9 | 11.9 | 0 | 12.99 | 12.99 | 0 | |
| 260950 | 9.83 | 9.83 | 0 | 10.95 | 10.95 | 0 | 11.64 | 11.64 | 0 | 11.96 | 11.96 | 0 | 13.05 | 13.05 | 0 | |
| 260960 | 10.38 | 10.38 | 0 | 11.28 | 11.28 | 0 | 11.79 | 11.79 | 0 | 12.06 | 12.06 | 0 | 13.08 | 13.08 | 0 | |
| 260970 | 10.94 | 10.94 | 0 | 12.71 | 12.71 | 0 | 13.34 | 13.34 | 0 | 13.53 | 13.53 | 0 | 14.28 | 14.28 | 0 | |
| 260975 | 13.49 | 13.49 | 0 | 13.69 | 13.69 | 0 | 13.86 | 13.86 | 0 | 13.94 | 13.94 | 0 | 14.99 | 14.99 | 0 | |
| 260980 | 11.53 | 11.53 | 0 | 12.14 | 12.14 | 0 | 12.31 | 12.31 | 0 | 12.39 | 12.39 | 0 | 12.83 | 12.83 | 0 | |
| 260990 | 11.71 | 11.71 | 0 | 12.12 | 12.12 | 0 | 12.28 | 12.28 | 0 | 12.35 | 12.35 | 0 | 12.85 | 12.85 | 0 | |
| 261000 | 10.37 | 10.37 | 0 | 11.95 | 11.95 | 0 | 12.46 | 12.46 | 0 | 12.8 | 12.8 | 0 | 14.06 | 14.06 | 0 | |
| 261010 | 10.54 | 10.54 | 0 | 12.38 | 12.38 | 0 | 12.93 | 12.93 | 0 | 13.14 | 13.14 | 0 | 14.21 | 14.21 | 0 | |
| 261020 | 10.73 | 10.73 | 0 | 12.76 | 12.76 | 0 | 13.29 | 13.29 | 0 | 13.48 | 13.48 | 0 | 14.55 | 14.55 | 0 | |
| 261030 | 11.31 | 11.31 | 0 | 13.58 | 13.58 | 0 | 14.08 | 14.08 | 0 | 14.41 | 14.41 | 0 | 15.54 | 15.54 | 0 | |
| 261040 | 11.43 | 11.43 | 0 | 13.61 | 13.61 | 0 | 14.12 | 14.12 | 0 | 14.44 | 14.44 | 0 | 15.55 | 15.55 | 0 | |
| 261050 | 11.68 | 11.68 | 0 | 13.86 | 13.86 | 0 | 14.24 | 14.24 | 0 | 14.53 | 14.53 | 0 | 15.58 | 15.58 | 0 | |
| 261060 | 12.06 | 12.06 | 0 | 13.73 | 13.73 | 0 | 14.36 | 14.36 | 0 | 14.61 | 14.61 | 0 | 15.61 | 15.61 | 0 | |
| 261070 | 13.02 | 13.02 | 0 | 13.75 | 13.75 | 0 | 14.36 | 14.36 | 0 | 14.61 | 14.61 | 0 | 15.61 | 15.61 | 0 | |
| 261080 | 13.3 | 13.3 | 0 | 14.93 | 14.93 | 0 | 15.69 | 15.69 | 0 | 16.04 | 16.04 | 0 | 16.86 | 16.86 | 0 | |
| 261090 | 14.39 | 14.39 | 0 | 15.22 | 15.22 | 0 | 15.82 | 15.82 | 0 | 16.13 | 16.13 | 0 | 16.92 | 16.92 | 0 | |
| 261100 | 13.34 | 13.34 | 0 | 14.34 | 14.34 | 0 | 14.64 | 14.64 | 0 | 14.75 | 14.75 | 0 | 15.21 | 15.21 | 0 | |
| 261110 | 14.56 | 14.56 | 0 | 15.15 | 15.15 | 0 | 15.3 | 15.3 | 0 | 15.36 | 15.36 | 0 | 15.61 | 15.61 | 0 | |
| 261120 | 10.39 | 10.39 | 0 | 11.47 | 11.47 | 0 | 12.29 | 12.29 | 0 | 12.65 | 12.65 | 0 | 13.91 | 13.91 | 0 | |
| 261130 | 13 | 13 | 0 | 13.36 | 13.36 | 0 | 13.48 | 13.48 | 0 | 13.53 | 13.53 | 0 | 13.91 | 13.91 | 0 | |
| 261200 | 10.29 | 10.29 | 0 | 11.86 | 11.86 | 0 | 12.53 | 12.53 | 0 | 12.82 | 12.82 | 0 | 13.92 | 13.92 | 0 | |
| 261210 | 12.72 | 12.72 | 0 | 13.2 | 13.2 | 0 | 13.34 | 13.34 | 0 | 13.41 | 13.41 | 0 | 13.92 | 13.92 | 0 | |
| 261220 | 12.77 | 12.77 | 0 | 13.33 | 13.33 | 0 | 13.51 | 13.51 | 0 | 13.59 | 13.59 | 0 | 13.98 | 13.98 | 0 | |
| 261230 | 10.5 | 10.5 | 0 | 12.38 | 12.38 | 0 | 13.2 | 13.2 | 0 | 13.53 | 13.53 | 0 | 14.66 | 14.66 | 0 | |
| 261300 | 11.53 | 11.53 | 0 | 12.92 | 12.92 | 0 | 13.73 | 13.73 | 0 | 14.06 | 14.06 | 0 | 15.18 | 15.18 | 0 | |
| 261310 | 12.23 | 12.23 | 0 | 13.41 | 13.41 | 0 | 13.92 | 13.92 | 0 | 14.11 | 14.11 | 0 | 15.19 | 15.19 | 0 | |
| 261320 | 12.67 | 12.67 | 0 | 13.83 | 13.83 | 0 | 14.35 | 14.35 | 0 | 14.55 | 14.55 | 0 | 15.27 | 15.27 | 0 | |
| 261330 | 14.08 | 14.08 | 0 | 14.83 | 14.83 | 0 | 15.08 | 15.08 | 0 | 15.18 | 15.18 | 0 | 15.59 | 15.59 | 0 | |
| 261400 | 14.73 | 14.73 | 0 | 15.66 | 15.66 | 0 | 16.01 | 16.01 | 0 | 16.15 | 16.15 | 0 | 16.7 | 16.7 | 0 | |
| 261410 | 14.73 | 14.73 | 0 | 15.66 | 15.66 | 0 | 16.01 | 16.01 | 0 | 16.15 | 16.15 | 0 | 16.72 | 16.72 | 0 | |
| 261420 | 14.73 | 14.73 | 0 | 15.68 | 15.68 | 0 | 16.06 | 16.06 | 0 | 16.21 | 16.21 | 0 | 16.82 | 16.82 | 0 | |
| 261430 | 16.11 | 16.11 | 0 | 17.56 | 17.56 | 0 | 18.07 | 18.07 | 0 | 18.26 | 18.26 | 0 | 19.12 | 19.12 | 0 | |
| 261440 | 16.13 | 16.13 | 0 | 17.71 | 17.71 | 0 | 18.31 | 18.31 | 0 | 18.54 | 18.54 | 0 | 19.73 | 19.73 | 0 | |
| 261450 | 19.54 | 19.54 | 0 | 20.23 | 20.23 | 0 | 20.52 | 20.52 | 0 | 20.63 | 20.63 | 0 | 21.05 | 21.05 | 0 | |
| 261460 | 19.54 | 19.54 | 0 | 20.25 | 20.25 | 0 | 20.57 | 20.57 | 0 | 20.72 | 20.72 | 0 | 21.35 | 21.35 | 0 | |
| 261470 | 19.54 | 19.54 | 0 | 20.25 | 20.25 | 0 | 20.58 | 20.58 | 0 | 20.72 | 20.72 | 0 | 21.35 | 21.35 | 0 | |
| 261480 | 21.08 | 21.08 | 0 | 21.79 | 21.79 | 0 | 22.14 | 22.14 | 0 | 22.28 | 22.28 | 0 | 22.9 | 22.9 | 0 | |
| 261490 | 21.08 | 21.08 | 0 | 21.79 | 21.79 | 0 | 22.14 | 22.14 | 0 | 22.28 | 22.28 | 0 | 22.9 | 22.9 | 0 | |
| 261500 | 14.73 | 14.73 | 0 | 15.66 | 15.66 | 0 | 16.01 | 16.01 | 0 | 16.15 | 16.15 | 0 | 16.72 | 16.72 | 0 | |
| 261510 | 16.26 | 16.26 | 0 | 16.82 | 16.82 | 0 | 17.07 | 17.07 | 0 | 17.22 | 17.22 | 0 | 17.86 | 17.86 | 0 | |
| 261520 | 16.6 | 16.6 | 0 | 16.87 | 16.87 | 0 | 17.09 | 17.09 | 0 | 17.23 | 17.23 | 0 | 17.86 | 17.86 | 0 | |
| 261530 | 17.2 | 17.2 | 0 | 17.89 | 17.89 | 0 | 18.11 | 18.11 | 0 | 18.17 | 18.17 | 0 | 18.45 | 18.45 | 0 | |
| 261540 | 16.11 | 16.11 | 0 | 17.53 | 17.53 | 0 | 18.06 | 18.06 | 0 | 18.3 | 18.3 | 0 | 19.18 | 19.18 | 0 | |
| 261550 | 16.55 | 16.55 | 0 | 17.53 | 17.53 | 0 | 18.07 | 18.07 | 0 | 18.3 | 18.3 | 0 | 19.18 | 19.18 | 0 | |
| 261560 | 19.96 | 19.96 | 0 | 20.31 | 20.31 | 0 | 20.46 | 20.46 | 0 | 20.54 | 20.54 | 0 | 20.95 | 20.95 | 0 | |
| 261570 | 19.8 | 19.8 | 0 | 20.11 | 20.11 | 0 | 20.24 | 20.24 | 0 | 20.3 | 20.3 | 0 | 20.63 | 20.63 | 0 | |
| 261600 | 14.74 | 14.74 | 0 | 15.73 | 15.73 | 0 | 16.11 | 16.11 | 0 | 16.26 | 16.26 | 0 | 16.87 | 16.87 | 0 | |
| 261610 | 14.74 | 14.74 | 0 | 15.81 | 15.81 | 0 | 16.14 | 16.14 | 0 | 16.29 | 16.29 | 0 | 16.89 | 16.89 | 0 | |
| 261620 | 14.74 | 14.74 | 0 | 15.88 | 15.88 | 0 | 16.26 | 16.26 | 0 | 16.42 | 16.42 | 0 | 17.08 | 17.08 | 0 | |
| 261630 | 14.74 | 14.74 | 0 | 16.17 | 16.17 | 0 | 16.6 | 16.6 | 0 | 16.75 | 16.75 | 0 | 17.36 | 17.36 | 0 | |
| 261640 | 14.75 | 14.75 | 0 | 16.59 | 16.59 | 0 | 17.01 | 17.01 | 0 | 17.16 | 17.16 | 0 | 17.72 | 17.72 | 0 | |
| 261650 | 14.75 | 14.75 | 0 | 16.68 | 16.68 | 0 | 17.08 | 17.08 | 0 | 17.23 | 17.23 | 0 | 17.78 | 17.78 | 0 | |
| 261660 | 18.91 | 18.91 | 0 | 19.18 | 19.18 | 0 | 19.32 | 19.32 | 0 | 19.38 | 19.38 | 0 | 19.67 | 19.67 | 0 | |
| 261670 | 16.76 | 16.76 | 0 | 17.3 | 17.3 | 0 | 17.87 | 17.87 | 0 | 18.06 | 18.06 | 0 | 18.79 | 18.79 | 0 | |
| 261680 | 17.18 | 17.18 | 0 | 17.8 | 17.8 | 0 | 18.05 | 18.05 | 0 | 18.18 | 18.18 | 0 | 18.82 | 18.82 | 0 | |
| 261700 | 14.73 | 14.73 | 0 | 15.81 | 15.81 | 0 | 16.4 | 16.4 | 0 | 16.66 | 16.66 | 0 | 17.79 | 17.79 | 0 | |
| 261710 | 14.74 | 14.74 | 0 | 15.97 | 15.97 | 0 | 16.41 | 16.41 | 0 | 16.67 | 16.67 | 0 | 17.79 | 17.79 | 0 | |
| 261720 | 16.02 | 16.02 | 0 | 16.14 | 16.14 | 0 | 16.41 | 16.41 | 0 | 16.67 | 16.67 | 0 | 17.79 | 17.79 | 0 | |
| 261730 | 16.02 | 16.02 | 0 | 16.52 | 16.52 | 0 | 17.08 | 17.08 | 0 | 17.94 | 17.94 | 0 | 19.56 | 19.56 | 0 | |
| 261740 | 17 | 17 | 0 | 18.05 | 18.05 | 0 | 18.55 | 18.55 | 0 | 18.74 | 18.74 | 0 | 19.58 | 19.58 | 0 | |
| 261750 | 16.35 | 16.35 | 0 | 16.84 | 16.84 | 0 | 17.28 | 17.28 | 0 | 17.52 | 17.52 | 0 | 18.71 | 18.71 | 0 | |
| 261760 | 16.02 | 16.02 | 0 | 16.14 | 16.14 | 0 | 16.41 | 16.41 | 0 | 16.67 | 16.67 | 0 | 17.81 | 17.81 | 0 | |
| 261796 | 14.82 | 14.82 | 0 | 15.84 | 15.84 | 0 | 16.22 | 16.22 | 0 | 16.37 | 16.37 | 0 | 17.15 | 17.15 | 0 | |
| 261798 | 16.57 | 16.57 | 0 | 16.88 | 16.88 | 0 | 17.07 | 17.07 | 0 | 17.16 | 17.16 | 0 | 17.54 | 17.54 | 0 | |
| 261800 | 16.57 | 16.57 | 0 | 16.91 | 16.91 | 0 | 17.29 | 17.29 | 0 | 17.49 | 17.49 | 0 | 18.32 | 18.32 | 0 | |
| 261806 | 14.82 | 14.82 | 0 | 15.84 | 15.84 | 0 | 16.22 | 16.22 | 0 | 16.38 | 16.38 | 0 | 17.29 | 17.29 | 0 | |
| 261808 | 16.24 | 16.24 | 0 | 16.74 | 16.74 | 0 | 16.98 | 16.98 | 0 | 17.09 | 17.09 | 0 | 17.52 | 17.52 | 0 | |
| 261810 | 16.24 | 16.24 | 0 | 16.76 | 16.76 | 0 | 17.2 | 17.2 | 0 | 17.41 | 17.41 | 0 | 18.14 | 18.14 | 0 | |
| 261820 | 14.84 | 14.84 | 0 | 15.91 | 15.91 | 0 | 16.32 | 16.32 | 0 | 16.5 | 16.5 | 0 | 17.28 | 17.28 | 0 | |
| 261830 | 17.6 | 17.6 | 0 | 17.92 | 17.92 | 0 | 18.08 | 18.08 | 0 | 18.16 | 18.16 | 0 | 18.55 | 18.55 | 0 | |
| 261840 | 16.83 | 16.83 | 0 | 17.98 | 17.98 | 0 | 18.47 | 18.47 | 0 | 18.68 | 18.68 | 0 | 19.65 | 19.65 | 0 | |
| 261850 | 17.02 | 17.02 | 0 | 18.04 | 18.04 | 0 | 18.53 | 18.53 | 0 | 18.75 | 18.75 | 0 | 19.66 | 19.66 | 0 | |
| 261860 | 17.03 | 17.03 | 0 | 18.04 | 18.04 | 0 | 18.53 | 18.53 | 0 | 18.75 | 18.75 | 0 | 19.86 | 19.86 | 0 | |
| 261870 | | | | | | | | | | | | | | | | |

Summary of Corrected and Revised Stages for Bridge

| Node | 2.33YR24HR | | | 25YR24HR | | | 50YR24HR | | | 100YR24HR | | | 500YR24HR | | | Notes |
|--------|--------------------------------|---------------------|-----------------|--------------------------------|---------------------|-----------------|--------------------------------|---------------------|-----------------|--------------------------------|---------------------|-----------------|--------------------------------|---------------------|-----------------|-------|
| | Corrected Effective Stage (ft) | Proposed Stage (ft) | Difference (ft) | Corrected Effective Stage (ft) | Proposed Stage (ft) | Difference (ft) | Corrected Effective Stage (ft) | Proposed Stage (ft) | Difference (ft) | Corrected Effective Stage (ft) | Proposed Stage (ft) | Difference (ft) | Corrected Effective Stage (ft) | Proposed Stage (ft) | Difference (ft) | |
| 261920 | 16.61 | 16.61 | 0 | 17.89 | 17.89 | 0 | 18.17 | 18.17 | 0 | 18.26 | 18.26 | 0 | 18.75 | 18.75 | 0 | |
| 261930 | 16.95 | 16.95 | 0 | 17.89 | 17.89 | 0 | 18.16 | 18.16 | 0 | 18.24 | 18.24 | 0 | 18.74 | 18.74 | 0 | |
| 261940 | 16.98 | 16.98 | 0 | 17.89 | 17.89 | 0 | 18.13 | 18.13 | 0 | 18.2 | 18.2 | 0 | 18.56 | 18.56 | 0 | |
| 261950 | 16.6 | 16.6 | 0 | 17.55 | 17.55 | 0 | 17.84 | 17.84 | 0 | 17.98 | 17.98 | 0 | 18.65 | 18.65 | 0 | |
| 261960 | 16.55 | 16.55 | 0 | 17.48 | 17.48 | 0 | 17.84 | 17.84 | 0 | 17.98 | 17.98 | 0 | 18.65 | 18.65 | 0 | |
| 261970 | 16.63 | 16.63 | 0 | 17.48 | 17.48 | 0 | 17.84 | 17.84 | 0 | 17.98 | 17.98 | 0 | 18.65 | 18.65 | 0 | |
| 261980 | 16.6 | 16.6 | 0 | 17.94 | 17.94 | 0 | 18.4 | 18.4 | 0 | 18.59 | 18.59 | 0 | 19.25 | 19.25 | 0 | |
| 261990 | 19.21 | 19.21 | 0 | 19.34 | 19.34 | 0 | 19.42 | 19.42 | 0 | 19.45 | 19.45 | 0 | 19.62 | 19.62 | 0 | |
| 262000 | 19.53 | 19.53 | 0 | 20.33 | 20.33 | 0 | 20.83 | 20.83 | 0 | 21.04 | 21.04 | 0 | 21.92 | 21.92 | 0 | |
| 262010 | 20.74 | 20.74 | 0 | 21.13 | 21.13 | 0 | 21.31 | 21.31 | 0 | 21.39 | 21.39 | 0 | 21.86 | 21.86 | 0 | |
| 262020 | 21.81 | 21.81 | 0 | 22.66 | 22.66 | 0 | 22.97 | 22.97 | 0 | 23.08 | 23.08 | 0 | 23.58 | 23.58 | 0 | |
| 262030 | 18.97 | 18.97 | 0 | 20.75 | 20.75 | 0 | 21.7 | 21.7 | 0 | 22.16 | 22.16 | 0 | 23.57 | 23.57 | 0 | |
| 262040 | 22.78 | 22.78 | 0 | 24.45 | 24.45 | 0 | 25.19 | 25.19 | 0 | 25.5 | 25.5 | 0 | 26.81 | 26.81 | 0 | |
| 262050 | 26.04 | 26.04 | 0 | 26.85 | 26.85 | 0 | 27.22 | 27.22 | 0 | 27.37 | 27.37 | 0 | 28.06 | 28.06 | 0 | |
| 262070 | 26.95 | 26.95 | 0 | 27.51 | 27.51 | 0 | 27.78 | 27.78 | 0 | 27.91 | 27.91 | 0 | 28.51 | 28.51 | 0 | |
| 262080 | 28.71 | 28.71 | 0 | 28.92 | 28.92 | 0 | 29.02 | 29.02 | 0 | 29.07 | 29.07 | 0 | 29.3 | 29.3 | 0 | |
| 262100 | 20.91 | 20.91 | 0 | 21.25 | 21.25 | 0 | 21.41 | 21.41 | 0 | 21.49 | 21.49 | 0 | 21.9 | 21.9 | 0 | |
| 262110 | 22.48 | 22.48 | 0 | 25.32 | 25.32 | 0 | 26.33 | 26.33 | 0 | 26.71 | 26.71 | 0 | 28.28 | 28.28 | 0 | |
| 262120 | 22.88 | 22.88 | 0 | 23.46 | 23.46 | 0 | 23.68 | 23.68 | 0 | 23.77 | 23.77 | 0 | 24.18 | 24.18 | 0 | |
| 262130 | 20.27 | 20.27 | 0 | 21.89 | 21.89 | 0 | 22.56 | 22.56 | 0 | 23.04 | 23.04 | 0 | 25.11 | 25.11 | 0 | |
| 262140 | 23.53 | 23.53 | 0 | 24.4 | 24.4 | 0 | 24.83 | 24.83 | 0 | 24.97 | 24.97 | 0 | 25.44 | 25.44 | 0 | |
| 262150 | 20.22 | 20.22 | 0 | 21.78 | 21.78 | 0 | 22.39 | 22.39 | 0 | 22.64 | 22.64 | 0 | 24.23 | 24.23 | 0 | |
| 262160 | 20.26 | 20.26 | 0 | 22.11 | 22.11 | 0 | 23.05 | 23.05 | 0 | 23.46 | 23.46 | 0 | 24.27 | 24.27 | 0 | |
| 262170 | 23.38 | 23.38 | 0 | 23.67 | 23.67 | 0 | 23.8 | 23.8 | 0 | 23.86 | 23.86 | 0 | 24.28 | 24.28 | 0 | |
| 262180 | 23.4 | 23.4 | 0 | 23.67 | 23.67 | 0 | 23.81 | 23.81 | 0 | 23.86 | 23.86 | 0 | 24.28 | 24.28 | 0 | |
| 262190 | 25.27 | 25.27 | 0 | 25.88 | 25.88 | 0 | 29.1 | 29.1 | 0 | 29.5 | 29.5 | 0 | 30.83 | 30.83 | 0 | |
| 262200 | 27.07 | 27.07 | 0 | 28.65 | 28.65 | 0 | 29.24 | 29.24 | 0 | 29.56 | 29.56 | 0 | 30.83 | 30.83 | 0 | |
| 262300 | 26.24 | 26.24 | 0 | 26.76 | 26.76 | 0 | 27.02 | 27.02 | 0 | 27.14 | 27.14 | 0 | 27.76 | 27.76 | 0 | |
| 262310 | 26.24 | 26.24 | 0 | 26.76 | 26.76 | 0 | 27.08 | 27.08 | 0 | 27.25 | 27.25 | 0 | 28.09 | 28.09 | 0 | |
| 262320 | 25.62 | 25.62 | 0 | 27.2 | 27.2 | 0 | 27.78 | 27.78 | 0 | 28.04 | 28.04 | 0 | 28.81 | 28.81 | 0 | |
| 262330 | 26.13 | 26.13 | 0 | 26.8 | 26.8 | 0 | 27.22 | 27.22 | 0 | 27.45 | 27.45 | 0 | 28.54 | 28.54 | 0 | |
| 262340 | 26.13 | 26.13 | 0 | 26.83 | 26.83 | 0 | 27.25 | 27.25 | 0 | 27.47 | 27.47 | 0 | 28.55 | 28.55 | 0 | |
| 262350 | 21.11 | 21.11 | 0 | 25.97 | 25.97 | 0 | 26.68 | 26.68 | 0 | 26.95 | 26.95 | 0 | 27.91 | 27.91 | 0 | |
| 262400 | 29.14 | 29.14 | 0 | 30.8 | 30.8 | 0 | 31.27 | 31.27 | 0 | 31.46 | 31.46 | 0 | 32.23 | 32.23 | 0 | |
| 262410 | 29.14 | 29.14 | 0 | 30.79 | 30.79 | 0 | 31.26 | 31.26 | 0 | 31.45 | 31.45 | 0 | 32.23 | 32.23 | 0 | |
| 262420 | 29.39 | 29.39 | 0 | 31.07 | 31.07 | 0 | 31.68 | 31.68 | 0 | 31.94 | 31.94 | 0 | 32.91 | 32.91 | 0 | |
| 262430 | 30.43 | 30.43 | 0 | 31.73 | 31.73 | 0 | 32.23 | 32.23 | 0 | 32.42 | 32.42 | 0 | 33.43 | 33.43 | 0 | |
| 262440 | 30.45 | 30.45 | 0 | 31.79 | 31.79 | 0 | 32.32 | 32.32 | 0 | 32.54 | 32.54 | 0 | 33.6 | 33.6 | 0 | |
| 262450 | 30.6 | 30.6 | 0 | 31.92 | 31.92 | 0 | 32.46 | 32.46 | 0 | 32.68 | 32.68 | 0 | 33.71 | 33.71 | 0 | |
| 262460 | 30.62 | 30.62 | 0 | 32 | 32 | 0 | 32.59 | 32.59 | 0 | 32.83 | 32.83 | 0 | 33.95 | 33.95 | 0 | |
| 262470 | 31.9 | 31.9 | 0 | 32.98 | 32.98 | 0 | 33.26 | 33.26 | 0 | 33.4 | 33.4 | 0 | 34.26 | 34.26 | 0 | |
| 262480 | 32.98 | 32.98 | 0 | 33.72 | 33.72 | 0 | 34.01 | 34.01 | 0 | 34.16 | 34.16 | 0 | 34.82 | 34.82 | 0 | |
| 262490 | 33.03 | 33.03 | 0 | 33.96 | 33.96 | 0 | 34.31 | 34.31 | 0 | 34.44 | 34.44 | 0 | 35.09 | 35.09 | 0 | |
| 262500 | 37.5 | 37.5 | 0 | 38.69 | 38.69 | 0 | 39.18 | 39.18 | 0 | 39.4 | 39.4 | 0 | 40.52 | 40.52 | 0 | |
| 262510 | 38.9 | 38.9 | 0 | 39.6 | 39.6 | 0 | 39.96 | 39.96 | 0 | 40.12 | 40.12 | 0 | 40.84 | 40.84 | 0 | |
| 262520 | 39.2 | 39.2 | 0 | 40.28 | 40.28 | 0 | 40.55 | 40.55 | 0 | 40.66 | 40.66 | 0 | 41.08 | 41.08 | 0 | |
| 262530 | 39.64 | 39.64 | 0 | 40.43 | 40.43 | 0 | 40.63 | 40.63 | 0 | 40.72 | 40.72 | 0 | 41.08 | 41.08 | 0 | |
| 262540 | 41.01 | 41.01 | 0 | 41.41 | 41.41 | 0 | 41.58 | 41.58 | 0 | 41.66 | 41.66 | 0 | 41.93 | 41.93 | 0 | |
| 262550 | 41.12 | 41.12 | 0 | 41.65 | 41.65 | 0 | 41.89 | 41.89 | 0 | 42 | 42 | 0 | 42.45 | 42.45 | 0 | |
| 262560 | 41.39 | 41.39 | 0 | 41.9 | 41.9 | 0 | 42.12 | 42.12 | 0 | 42.18 | 42.18 | 0 | 42.45 | 42.45 | 0 | |
| 262570 | 41.48 | 41.48 | 0 | 42.18 | 42.18 | 0 | 42.46 | 42.46 | 0 | 42.59 | 42.59 | 0 | 43.05 | 43.05 | 0 | |
| 262580 | 42.06 | 42.06 | 0 | 42.33 | 42.33 | 0 | 42.52 | 42.52 | 0 | 42.63 | 42.63 | 0 | 43.07 | 43.07 | 0 | |
| 262590 | 41.63 | 41.63 | 0 | 42.14 | 42.14 | 0 | 42.5 | 42.5 | 0 | 42.67 | 42.67 | 0 | 43.27 | 43.27 | 0 | |
| 262600 | 29.38 | 29.38 | 0 | 31.07 | 31.07 | 0 | 31.68 | 31.68 | 0 | 31.94 | 31.94 | 0 | 32.91 | 32.91 | 0 | |
| 262610 | 29.38 | 29.38 | 0 | 31.07 | 31.07 | 0 | 31.68 | 31.68 | 0 | 31.94 | 31.94 | 0 | 32.91 | 32.91 | 0 | |
| 262620 | 29.38 | 29.38 | 0 | 31.07 | 31.07 | 0 | 31.68 | 31.68 | 0 | 31.94 | 31.94 | 0 | 32.91 | 32.91 | 0 | |
| 262695 | 43.1 | 43.1 | 0 | 43.34 | 43.34 | 0 | 43.45 | 43.45 | 0 | 43.51 | 43.51 | 0 | 43.77 | 43.77 | 0 | |
| 262700 | 31 | 31 | 0 | 32.09 | 32.09 | 0 | 32.6 | 32.6 | 0 | 32.84 | 32.84 | 0 | 33.95 | 33.95 | 0 | |
| 262710 | 31.01 | 31.01 | 0 | 32.09 | 32.09 | 0 | 32.6 | 32.6 | 0 | 32.84 | 32.84 | 0 | 33.95 | 33.95 | 0 | |
| 262720 | 31.61 | 31.61 | 0 | 32.54 | 32.54 | 0 | 32.76 | 32.76 | 0 | 32.85 | 32.85 | 0 | 33.31 | 33.31 | 0 | |
| 262730 | 31.01 | 31.01 | 0 | 32.09 | 32.09 | 0 | 32.6 | 32.6 | 0 | 32.84 | 32.84 | 0 | 33.95 | 33.95 | 0 | |
| 262740 | 31.02 | 31.02 | 0 | 32.09 | 32.09 | 0 | 32.6 | 32.6 | 0 | 32.84 | 32.84 | 0 | 33.95 | 33.95 | 0 | |
| 262750 | 30.73 | 30.73 | 0 | 32 | 32 | 0 | 32.6 | 32.6 | 0 | 32.85 | 32.85 | 0 | 33.95 | 33.95 | 0 | |
| 262800 | 30.64 | 30.64 | 0 | 32 | 32 | 0 | 32.6 | 32.6 | 0 | 32.87 | 32.87 | 0 | 34.06 | 34.06 | 0 | |
| 262810 | 30.65 | 30.65 | 0 | 32 | 32 | 0 | 32.6 | 32.6 | 0 | 32.87 | 32.87 | 0 | 34.03 | 34.03 | 0 | |
| 262820 | 30.98 | 30.98 | 0 | 31.71 | 31.71 | 0 | 32.09 | 32.09 | 0 | 32.27 | 32.27 | 0 | 33.01 | 33.01 | 0 | |
| 262830 | 31.06 | 31.06 | 0 | 31.56 | 31.56 | 0 | 31.72 | 31.72 | 0 | 31.79 | 31.79 | 0 | 32.08 | 32.08 | 0 | |
| 262840 | 31.29 | 31.29 | 0 | 31.57 | 31.57 | 0 | 31.71 | 31.71 | 0 | 31.78 | 31.78 | 0 | 32.07 | 32.07 | 0 | |
| 262850 | 30.65 | 30.65 | 0 | 32 | 32 | 0 | 32.6 | 32.6 | 0 | 32.85 | 32.85 | 0 | 33.95 | 33.95 | 0 | |
| 262860 | 30.81 | 30.81 | 0 | 32 | 32 | 0 | 32.6 | 32.6 | 0 | 32.85 | 32.85 | 0 | 33.95 | 33.95 | 0 | |
| 262900 | 30.66 | 30.66 | 0 | 32 | 32 | 0 | 32.59 | 32.59 | 0 | 32.84 | 32.84 | 0 | 33.95 | 33.95 | 0 | |
| 262910 | 31.6 | 31.6 | 0 | 32.27 | 32.27 | 0 | 32.74 | 32.74 | 0 | 32.96 | 32.96 | 0 | 34.03 | 34.03 | 0 | |
| 262920 | 33.33 | 33.33 | 0 | 34.82 | 34.82 | 0 | 35.54 | 35.54 | 0 | 35.84 | 35.84 | 0 | 37.08 | 37.08 | 0 | |
| 262930 | 34.35 | 34.35 | 0 | 35.39 | 35.39 | 0 | 35.95 | 35.95 | 0 | 36.2 | 36.2 | 0 | 37.23 | 37.23 | 0 | |
| 262940 | 34.49 | 34.49 | 0 | 35.66 | 35.66 | 0 | 36.32 | 36.32 | 0 | 36.64 | 36.64 | 0 | 37.88 | 37.88 | 0 | |
| 262950 | 36.29 | 36.29 | 0 | 37.33 | 37.33 | 0 | 37.79 | 37.79 | 0 | 37.99 | 37.99 | 0 | 38.74 | 38.74 | 0 | |
| 262960 | 34.26 | 34.26 | 0 | 34.75 | 34.75 | 0 | 34.98 | 34.98 | 0 | 35.09 | 35.09 | 0 | 35.54 | 35.54 | 0 | |
| 262970 | 32.37 | 32.37 | 0 | 32.37 | 32.37 | 0 | 32.74 | 32.74 | 0 | 32.96 | 32.96 | 0 | 34.03 | 34.03 | 0 | |
| 262980 | 34.12 | 34.12 | 0 | 34.12 | 34.12 | 0 | 34.12 | 34.12 | 0 | 34.12 | 34.12 | 0 | 34.13 | 34.13 | 0 | |
| 263000 | 31.91 | 31.91 | 0 | 33.14 | 33.14 | 0 | 33.57 | 33.57 | 0 | 33.78 | 33.78 | 0 | 34.54 | 34.54 | 0 | |
| 263010 | 32.05 | 32.05 | 0 | 33.3 | 33.3 | 0 | 33.7 | 33.7 | 0 | 33.85 | 33.85 | 0 | 34.55 | 34.55 | 0 | |
| 263020 | 33.03 | 33.03 | 0 | 33.96 | 33.96 | 0 | 34.31 | 34.31 | 0 | 34.45 | 34.45 | 0 | 35.1 | 35.1 | 0 | |
| 263030 | 32.85 | 32.85 | 0 | 33.96 | 33.96 | 0 | 34.31 | 34.31 | 0 | 34.45 | 34.45 | 0 | 35.1 | 35.1 | 0 | |
| 263040 | 41.12 | 41.12 | 0 | | | | | | | | | | | | | |

Summary of Corrected and Revised Stages for Bridge

| Node | 2.33YR24HR | | | 25YR24HR | | | 50YR24HR | | | 100YR24HR | | | 500YR24HR | | | Notes |
|--------|--------------------------------|---------------------|-----------------|--------------------------------|---------------------|-----------------|--------------------------------|---------------------|-----------------|--------------------------------|---------------------|-----------------|--------------------------------|---------------------|-----------------|-------|
| | Corrected Effective Stage (ft) | Proposed Stage (ft) | Difference (ft) | Corrected Effective Stage (ft) | Proposed Stage (ft) | Difference (ft) | Corrected Effective Stage (ft) | Proposed Stage (ft) | Difference (ft) | Corrected Effective Stage (ft) | Proposed Stage (ft) | Difference (ft) | Corrected Effective Stage (ft) | Proposed Stage (ft) | Difference (ft) | |
| 263110 | 25.77 | 25.77 | 0 | 25.77 | 25.77 | 0 | 26.41 | 26.41 | 0 | 26.74 | 26.74 | 0 | 29.42 | 29.42 | 0 | |
| 263120 | 25.7 | 25.7 | 0 | 26.21 | 26.21 | 0 | 26.68 | 26.68 | 0 | 26.94 | 26.94 | 0 | 29.42 | 29.42 | 0 | |
| 263130 | 26.33 | 26.33 | 0 | 28.53 | 28.53 | 0 | 29.44 | 29.44 | 0 | 29.81 | 29.81 | 0 | 31.01 | 31.01 | 0 | |
| 263140 | 26.51 | 26.51 | 0 | 29.13 | 29.13 | 0 | 30.14 | 30.14 | 0 | 30.5 | 30.5 | 0 | 31.8 | 31.8 | 0 | |
| 263150 | 25.78 | 25.78 | 0 | 27.17 | 27.17 | 0 | 28.01 | 28.01 | 0 | 28.38 | 28.38 | 0 | 29.79 | 29.79 | 0 | |
| 263160 | 27.65 | 27.65 | 0 | 28.5 | 28.5 | 0 | 28.88 | 28.88 | 0 | 29.06 | 29.06 | 0 | 29.82 | 29.82 | 0 | |
| 263170 | 28.42 | 28.42 | 0 | 28.84 | 28.84 | 0 | 29.08 | 29.08 | 0 | 29.2 | 29.2 | 0 | 29.84 | 29.84 | 0 | |
| 263180 | 26.22 | 26.22 | 0 | 27.89 | 27.89 | 0 | 28.58 | 28.58 | 0 | 28.89 | 28.89 | 0 | 30.03 | 30.03 | 0 | |
| 263190 | 26.22 | 26.22 | 0 | 27.89 | 27.89 | 0 | 28.58 | 28.58 | 0 | 28.89 | 28.89 | 0 | 30.04 | 30.04 | 0 | |
| 263200 | 29.35 | 29.35 | 0 | 31.01 | 31.01 | 0 | 31.52 | 31.52 | 0 | 31.74 | 31.74 | 0 | 32.52 | 32.52 | 0 | |
| 263210 | 29.35 | 29.35 | 0 | 31.02 | 31.02 | 0 | 31.53 | 31.53 | 0 | 31.75 | 31.75 | 0 | 32.58 | 32.58 | 0 | |
| 263220 | 29.36 | 29.36 | 0 | 31.05 | 31.05 | 0 | 31.61 | 31.61 | 0 | 31.86 | 31.86 | 0 | 32.94 | 32.94 | 0 | |
| 263230 | 32.31 | 32.31 | 0 | 33.03 | 33.03 | 0 | 33.3 | 33.3 | 0 | 33.42 | 33.42 | 0 | 33.96 | 33.96 | 0 | |
| 263240 | 32.9 | 32.9 | 0 | 34.04 | 34.04 | 0 | 34.45 | 34.45 | 0 | 34.61 | 34.61 | 0 | 35.22 | 35.22 | 0 | |
| 263250 | 33.03 | 33.03 | 0 | 34.24 | 34.24 | 0 | 34.7 | 34.7 | 0 | 34.88 | 34.88 | 0 | 35.61 | 35.61 | 0 | |
| 263260 | 33.77 | 33.77 | 0 | 34.78 | 34.78 | 0 | 35.23 | 35.23 | 0 | 35.4 | 35.4 | 0 | 36.04 | 36.04 | 0 | |
| 263270 | 34.6 | 34.6 | 0 | 35.53 | 35.53 | 0 | 35.95 | 35.95 | 0 | 36.13 | 36.13 | 0 | 36.87 | 36.87 | 0 | |
| 263280 | 35.75 | 35.75 | 0 | 37.29 | 37.29 | 0 | 37.87 | 37.87 | 0 | 38.15 | 38.15 | 0 | 39.05 | 39.05 | 0 | |
| 263290 | 38.22 | 38.22 | 0 | 38.81 | 38.81 | 0 | 39.15 | 39.15 | 0 | 39.31 | 39.31 | 0 | 39.92 | 39.92 | 0 | |
| 263300 | 41.23 | 41.23 | 0 | 42.13 | 42.13 | 0 | 42.49 | 42.49 | 0 | 42.67 | 42.67 | 0 | 43.27 | 43.27 | 0 | |
| 263310 | 41.27 | 41.27 | 0 | 42.14 | 42.14 | 0 | 42.5 | 42.5 | 0 | 42.67 | 42.67 | 0 | 43.27 | 43.27 | 0 | |
| 263320 | 42.23 | 42.23 | 0 | 43.01 | 43.01 | 0 | 43.23 | 43.23 | 0 | 43.31 | 43.31 | 0 | 43.66 | 43.66 | 0 | |
| 263330 | 42.25 | 42.25 | 0 | 43.02 | 43.02 | 0 | 43.23 | 43.23 | 0 | 43.31 | 43.31 | 0 | 43.67 | 43.67 | 0 | |
| 263400 | 29.35 | 29.35 | 0 | 31.02 | 31.02 | 0 | 31.53 | 31.53 | 0 | 31.75 | 31.75 | 0 | 32.52 | 32.52 | 0 | |
| 263410 | 29.35 | 29.35 | 0 | 31.03 | 31.03 | 0 | 31.55 | 31.55 | 0 | 31.77 | 31.77 | 0 | 32.52 | 32.52 | 0 | |
| 263420 | 29.37 | 29.37 | 0 | 31.04 | 31.04 | 0 | 31.56 | 31.56 | 0 | 31.78 | 31.78 | 0 | 32.53 | 32.53 | 0 | |
| 263430 | 29.37 | 29.37 | 0 | 31.04 | 31.04 | 0 | 31.56 | 31.56 | 0 | 31.78 | 31.78 | 0 | 32.54 | 32.54 | 0 | |
| 263440 | 29.37 | 29.37 | 0 | 31.04 | 31.04 | 0 | 31.56 | 31.56 | 0 | 31.78 | 31.78 | 0 | 32.55 | 32.55 | 0 | |
| 263450 | 29.36 | 29.36 | 0 | 31.04 | 31.04 | 0 | 31.56 | 31.56 | 0 | 31.79 | 31.79 | 0 | 32.59 | 32.59 | 0 | |
| 263460 | 30.35 | 30.35 | 0 | 31.13 | 31.13 | 0 | 31.62 | 31.62 | 0 | 31.83 | 31.83 | 0 | 32.64 | 32.64 | 0 | |
| 263470 | 30.35 | 30.35 | 0 | 31.16 | 31.16 | 0 | 31.67 | 31.67 | 0 | 31.9 | 31.9 | 0 | 32.82 | 32.82 | 0 | |
| 263480 | 30.86 | 30.86 | 0 | 31.69 | 31.69 | 0 | 32.06 | 32.06 | 0 | 32.23 | 32.23 | 0 | 33.05 | 33.05 | 0 | |
| 263490 | 32.68 | 32.68 | 0 | 33.68 | 33.68 | 0 | 34.03 | 34.03 | 0 | 34.19 | 34.19 | 0 | 34.62 | 34.62 | 0 | |
| 263500 | 32.68 | 32.68 | 0 | 33.74 | 33.74 | 0 | 34.17 | 34.17 | 0 | 34.36 | 34.36 | 0 | 35.01 | 35.01 | 0 | |
| 263510 | 32.7 | 32.7 | 0 | 33.79 | 33.79 | 0 | 34.25 | 34.25 | 0 | 34.46 | 34.46 | 0 | 35.15 | 35.15 | 0 | |
| 263520 | 32.71 | 32.71 | 0 | 33.85 | 33.85 | 0 | 34.43 | 34.43 | 0 | 34.72 | 34.72 | 0 | 35.8 | 35.8 | 0 | |
| 263530 | 32.71 | 32.71 | 0 | 33.86 | 33.86 | 0 | 34.45 | 34.45 | 0 | 34.75 | 34.75 | 0 | 35.85 | 35.85 | 0 | |
| 263540 | 32.85 | 32.85 | 0 | 33.96 | 33.96 | 0 | 34.61 | 34.61 | 0 | 34.91 | 34.91 | 0 | 36.04 | 36.04 | 0 | |
| 263550 | 32.89 | 32.89 | 0 | 33.96 | 33.96 | 0 | 34.61 | 34.61 | 0 | 34.91 | 34.91 | 0 | 36.04 | 36.04 | 0 | |
| 263560 | 29.35 | 29.35 | 0 | 31.02 | 31.02 | 0 | 31.53 | 31.53 | 0 | 31.76 | 31.76 | 0 | 32.55 | 32.55 | 0 | |
| 263570 | 29.35 | 29.35 | 0 | 31.02 | 31.02 | 0 | 31.54 | 31.54 | 0 | 31.76 | 31.76 | 0 | 32.55 | 32.55 | 0 | |
| 263580 | 29.35 | 29.35 | 0 | 31.02 | 31.02 | 0 | 31.54 | 31.54 | 0 | 31.76 | 31.76 | 0 | 32.62 | 32.62 | 0 | |
| 263590 | 29.37 | 29.37 | 0 | 31.04 | 31.04 | 0 | 31.56 | 31.56 | 0 | 31.78 | 31.78 | 0 | 32.55 | 32.55 | 0 | |
| 263600 | 30.72 | 30.72 | 0 | 31.04 | 31.04 | 0 | 31.56 | 31.56 | 0 | 31.78 | 31.78 | 0 | 32.55 | 32.55 | 0 | |
| 263610 | 29.36 | 29.36 | 0 | 31.04 | 31.04 | 0 | 31.56 | 31.56 | 0 | 31.78 | 31.78 | 0 | 32.59 | 32.59 | 0 | |
| 263620 | 29.36 | 29.36 | 0 | 31.02 | 31.02 | 0 | 31.54 | 31.54 | 0 | 31.76 | 31.76 | 0 | 32.62 | 32.62 | 0 | |
| 263630 | 29.31 | 29.31 | 0 | 31.02 | 31.02 | 0 | 31.54 | 31.54 | 0 | 31.76 | 31.76 | 0 | 32.62 | 32.62 | 0 | |
| 263640 | 29.35 | 29.35 | 0 | 31.02 | 31.02 | 0 | 31.54 | 31.54 | 0 | 31.76 | 31.76 | 0 | 32.62 | 32.62 | 0 | |
| 263650 | 29.29 | 29.29 | 0 | 31.02 | 31.02 | 0 | 31.54 | 31.54 | 0 | 31.76 | 31.76 | 0 | 32.62 | 32.62 | 0 | |
| 263660 | 29.22 | 29.22 | 0 | 31.02 | 31.02 | 0 | 31.54 | 31.54 | 0 | 31.76 | 31.76 | 0 | 32.62 | 32.62 | 0 | |
| 263670 | 29.22 | 29.22 | 0 | 31.02 | 31.02 | 0 | 31.53 | 31.53 | 0 | 31.75 | 31.75 | 0 | 32.67 | 32.67 | 0 | |
| 263680 | 29.22 | 29.22 | 0 | 31.01 | 31.01 | 0 | 31.52 | 31.52 | 0 | 31.75 | 31.75 | 0 | 32.67 | 32.67 | 0 | |
| 263690 | 29.22 | 29.22 | 0 | 31 | 31 | 0 | 31.49 | 31.49 | 0 | 31.72 | 31.72 | 0 | 32.71 | 32.71 | 0 | |
| 263700 | 29.85 | 29.85 | 0 | 30.97 | 30.97 | 0 | 31.47 | 31.47 | 0 | 31.71 | 31.71 | 0 | 32.71 | 32.71 | 0 | |
| 263710 | 29.85 | 29.85 | 0 | 30.94 | 30.94 | 0 | 31.39 | 31.39 | 0 | 31.64 | 31.64 | 0 | 32.77 | 32.77 | 0 | |
| 263720 | 28.69 | 28.69 | 0 | 30.39 | 30.39 | 0 | 31.3 | 31.3 | 0 | 31.63 | 31.63 | 0 | 32.78 | 32.78 | 0 | |
| 263730 | 29.19 | 29.19 | 0 | 30.39 | 30.39 | 0 | 31.3 | 31.3 | 0 | 31.63 | 31.63 | 0 | 32.78 | 32.78 | 0 | |
| 263740 | 30.32 | 30.32 | 0 | 31.1 | 31.1 | 0 | 31.59 | 31.59 | 0 | 31.81 | 31.81 | 0 | 32.58 | 32.58 | 0 | |
| 263750 | 30.31 | 30.31 | 0 | 31.08 | 31.08 | 0 | 31.59 | 31.59 | 0 | 31.81 | 31.81 | 0 | 32.57 | 32.57 | 0 | |
| 263760 | 30.35 | 30.35 | 0 | 31.16 | 31.16 | 0 | 31.67 | 31.67 | 0 | 31.9 | 31.9 | 0 | 32.83 | 32.83 | 0 | |
| 263770 | 30.35 | 30.35 | 0 | 31.16 | 31.16 | 0 | 31.67 | 31.67 | 0 | 31.9 | 31.9 | 0 | 32.83 | 32.83 | 0 | |
| 263780 | 30.48 | 30.48 | 0 | 31.17 | 31.17 | 0 | 31.67 | 31.67 | 0 | 31.9 | 31.9 | 0 | 32.82 | 32.82 | 0 | |
| 263790 | 30.89 | 30.89 | 0 | 31.79 | 31.79 | 0 | 32.19 | 32.19 | 0 | 32.38 | 32.38 | 0 | 33.2 | 33.2 | 0 | |
| 263800 | 31.92 | 31.92 | 0 | 32.31 | 32.31 | 0 | 32.53 | 32.53 | 0 | 32.65 | 32.65 | 0 | 33.32 | 33.32 | 0 | |
| 263810 | 32.01 | 32.01 | 0 | 32.58 | 32.58 | 0 | 32.91 | 32.91 | 0 | 33.07 | 33.07 | 0 | 33.77 | 33.77 | 0 | |
| 263815 | 32.84 | 32.84 | 0 | 33.92 | 33.92 | 0 | 34.33 | 34.33 | 0 | 34.51 | 34.51 | 0 | 35.28 | 35.28 | 0 | |
| 263820 | 32.84 | 32.84 | 0 | 33.92 | 33.92 | 0 | 34.33 | 34.33 | 0 | 34.51 | 34.51 | 0 | 35.28 | 35.28 | 0 | |
| 263830 | 32.84 | 32.84 | 0 | 33.93 | 33.93 | 0 | 34.34 | 34.34 | 0 | 34.52 | 34.52 | 0 | 35.3 | 35.3 | 0 | |
| 263840 | 33.12 | 33.12 | 0 | 33.94 | 33.94 | 0 | 34.34 | 34.34 | 0 | 34.52 | 34.52 | 0 | 35.3 | 35.3 | 0 | |
| 263850 | 33.84 | 33.84 | 0 | 35.16 | 35.16 | 0 | 35.59 | 35.59 | 0 | 35.77 | 35.77 | 0 | 36.47 | 36.47 | 0 | |
| 263860 | 33.84 | 33.84 | 0 | 35.16 | 35.16 | 0 | 35.59 | 35.59 | 0 | 35.77 | 35.77 | 0 | 36.47 | 36.47 | 0 | |
| 263870 | 35.18 | 35.18 | 0 | 35.62 | 35.62 | 0 | 35.81 | 35.81 | 0 | 35.89 | 35.89 | 0 | 36.28 | 36.28 | 0 | |
| 263900 | 30.35 | 30.35 | 0 | 31.16 | 31.16 | 0 | 31.66 | 31.66 | 0 | 31.88 | 31.88 | 0 | 32.81 | 32.81 | 0 | |
| 263910 | 30.35 | 30.35 | 0 | 31.16 | 31.16 | 0 | 31.66 | 31.66 | 0 | 31.88 | 31.88 | 0 | 32.81 | 32.81 | 0 | |
| 263920 | 30.85 | 30.85 | 0 | 31.92 | 31.92 | 0 | 32.49 | 32.49 | 0 | 32.64 | 32.64 | 0 | 33.34 | 33.34 | 0 | |
| 263930 | 30.86 | 30.86 | 0 | 31.94 | 31.94 | 0 | 32.51 | 32.51 | 0 | 32.65 | 32.65 | 0 | 33.34 | 33.34 | 0 | |
| 263940 | 30.85 | 30.85 | 0 | 31.91 | 31.91 | 0 | 32.47 | 32.47 | 0 | 32.58 | 32.58 | 0 | 32.84 | 32.84 | 0 | |
| 263950 | 30.85 | 30.85 | 0 | 31.91 | 31.91 | 0 | 32.47 | 32.47 | 0 | 32.58 | 32.58 | 0 | 32.84 | 32.84 | 0 | |
| 263960 | 30.9 | 30.9 | 0 | 30.9 | 30.9 | 0 | 31.37 | 31.37 | 0 | 31.72 | 31.72 | 0 | 32.75 | 32.75 | 0 | |
| 263970 | 30.35 | 30.35 | 0 | 31.14 | 31.14 | 0 | 31.62 | 31.62 | 0 | 31.74 | 31.74 | 0 | 32.75 | 32.75 | 0 | |
| 263980 | 30.03 | 30.03 | 0 | 30.94 | 30.94 | 0 | 31.37 | 31.37 | 0 | 31.72 | 31.72 | 0 | 32.75 | 32.75 | 0 | |
| 263990 | 30.03 | 30.03 | 0 | 30.94 | 30.94 | 0 | 31.37 | 31.37 | 0 | 31.72 | 31.72 | 0 | 32.75 | 32.75 | 0 | |
| 264000 | 30.35 | 30.35 | 0 | 31.16 | 31.16 | 0 | 31.66 | 31.66 | 0 | 31.89 | | | | | | |

Summary of Corrected and Revised Stages for Bridge

| Node | 2.33YR24HR | | | 25YR24HR | | | 50YR24HR | | | 100YR24HR | | | 500YR24HR | | | Notes |
|--------|--------------------------------|---------------------|-----------------|--------------------------------|---------------------|-----------------|--------------------------------|---------------------|-----------------|--------------------------------|---------------------|-----------------|--------------------------------|---------------------|-----------------|-------|
| | Corrected Effective Stage (ft) | Proposed Stage (ft) | Difference (ft) | Corrected Effective Stage (ft) | Proposed Stage (ft) | Difference (ft) | Corrected Effective Stage (ft) | Proposed Stage (ft) | Difference (ft) | Corrected Effective Stage (ft) | Proposed Stage (ft) | Difference (ft) | Corrected Effective Stage (ft) | Proposed Stage (ft) | Difference (ft) | |
| 264130 | 29.6 | 29.6 | 0 | 29.95 | 29.95 | 0 | 30.13 | 30.13 | 0 | 30.21 | 30.21 | 0 | 30.59 | 30.59 | 0 | |
| 264140 | 25.82 | 25.82 | 0 | 27.2 | 27.2 | 0 | 27.82 | 27.82 | 0 | 28.14 | 28.14 | 0 | 29.21 | 29.21 | 0 | |
| 264150 | 25.83 | 25.83 | 0 | 27.2 | 27.2 | 0 | 27.82 | 27.82 | 0 | 28.14 | 28.14 | 0 | 29.21 | 29.21 | 0 | |
| 264160 | 27.96 | 27.96 | 0 | 28.48 | 28.48 | 0 | 28.76 | 28.76 | 0 | 28.89 | 28.89 | 0 | 29.81 | 29.81 | 0 | |
| 264170 | 27.97 | 27.97 | 0 | 28.5 | 28.5 | 0 | 28.79 | 28.79 | 0 | 28.92 | 28.92 | 0 | 29.81 | 29.81 | 0 | |
| 264200 | 26.19 | 26.19 | 0 | 27.86 | 27.86 | 0 | 28.56 | 28.56 | 0 | 28.85 | 28.85 | 0 | 29.87 | 29.87 | 0 | |
| 264208 | 26.35 | 26.35 | 0 | 27.94 | 27.94 | 0 | 28.64 | 28.64 | 0 | 28.94 | 28.94 | 0 | 30.01 | 30.01 | 0 | |
| 264210 | 26.22 | 26.22 | 0 | 27.88 | 27.88 | 0 | 28.58 | 28.58 | 0 | 28.87 | 28.87 | 0 | 29.91 | 29.91 | 0 | |
| 264220 | 26.35 | 26.35 | 0 | 27.95 | 27.95 | 0 | 28.64 | 28.64 | 0 | 28.94 | 28.94 | 0 | 30.01 | 30.01 | 0 | |
| 264230 | 26.35 | 26.35 | 0 | 27.94 | 27.94 | 0 | 28.63 | 28.63 | 0 | 28.93 | 28.93 | 0 | 30.01 | 30.01 | 0 | |
| 264240 | 26.35 | 26.35 | 0 | 27.93 | 27.93 | 0 | 28.6 | 28.6 | 0 | 28.9 | 28.9 | 0 | 30 | 30 | 0 | |
| 264250 | 26.35 | 26.35 | 0 | 27.93 | 27.93 | 0 | 28.6 | 28.6 | 0 | 28.9 | 28.9 | 0 | 30 | 30 | 0 | |
| 264260 | 25.99 | 25.99 | 0 | 27.9 | 27.9 | 0 | 28.51 | 28.51 | 0 | 28.78 | 28.78 | 0 | 29.76 | 29.76 | 0 | |
| 264270 | 25.95 | 25.95 | 0 | 27.64 | 27.64 | 0 | 28.23 | 28.23 | 0 | 28.49 | 28.49 | 0 | 29.5 | 29.5 | 0 | |
| 264280 | 25.95 | 25.95 | 0 | 27.55 | 27.55 | 0 | 28.16 | 28.16 | 0 | 28.42 | 28.42 | 0 | 29.47 | 29.47 | 0 | |
| 264290 | 26.22 | 26.22 | 0 | 27.88 | 27.88 | 0 | 28.58 | 28.58 | 0 | 28.87 | 28.87 | 0 | 29.91 | 29.91 | 0 | |
| 264300 | 31.63 | 31.63 | 0 | 31.76 | 31.76 | 0 | 31.82 | 31.82 | 0 | 31.85 | 31.85 | 0 | 32 | 32 | 0 | |
| 264310 | 26.37 | 26.37 | 0 | 28.03 | 28.03 | 0 | 28.75 | 28.75 | 0 | 29.08 | 29.08 | 0 | 30.39 | 30.39 | 0 | |
| 264320 | 28.66 | 28.66 | 0 | 29.62 | 29.62 | 0 | 30.04 | 30.04 | 0 | 30.23 | 30.23 | 0 | 31.03 | 31.03 | 0 | |
| 264330 | 29.04 | 29.04 | 0 | 29.97 | 29.97 | 0 | 30.36 | 30.36 | 0 | 30.54 | 30.54 | 0 | 31.28 | 31.28 | 0 | |
| 264340 | 29.05 | 29.05 | 0 | 30.19 | 30.19 | 0 | 30.69 | 30.69 | 0 | 30.91 | 30.91 | 0 | 31.88 | 31.88 | 0 | |
| 264350 | 30.05 | 30.05 | 0 | 30.7 | 30.7 | 0 | 31.06 | 31.06 | 0 | 31.23 | 31.23 | 0 | 32.07 | 32.07 | 0 | |
| 264360 | 30.98 | 30.98 | 0 | 31.2 | 31.2 | 0 | 31.31 | 31.31 | 0 | 31.38 | 31.38 | 0 | 32.07 | 32.07 | 0 | |
| 264370 | 28.44 | 28.44 | 0 | 29.09 | 29.09 | 0 | 29.4 | 29.4 | 0 | 29.54 | 29.54 | 0 | 30.23 | 30.23 | 0 | |
| 264380 | 26.53 | 26.53 | 0 | 28.01 | 28.01 | 0 | 28.6 | 28.6 | 0 | 28.93 | 28.93 | 0 | 32.16 | 32.16 | 0 | |
| 264390 | 27.04 | 27.04 | 0 | 27.93 | 27.93 | 0 | 28.55 | 28.55 | 0 | 28.82 | 28.82 | 0 | 30.08 | 30.08 | 0 | |
| 264395 | 27.59 | 27.59 | 0 | 28.64 | 28.64 | 0 | 29.25 | 29.25 | 0 | 29.55 | 29.55 | 0 | 30.15 | 30.15 | 0 | |
| 264398 | 28.95 | 28.95 | 0 | 29.8 | 29.8 | 0 | 30.26 | 30.26 | 0 | 30.49 | 30.49 | 0 | 31.68 | 31.68 | 0 | |
| 264400 | 28.97 | 28.97 | 0 | 29.8 | 29.8 | 0 | 30.26 | 30.26 | 0 | 30.49 | 30.49 | 0 | 31.68 | 31.68 | 0 | |
| 264410 | 30.54 | 30.54 | 0 | 32.31 | 32.31 | 0 | 32.72 | 32.72 | 0 | 32.89 | 32.89 | 0 | 33.64 | 33.64 | 0 | |
| 264500 | 26.47 | 26.47 | 0 | 28.1 | 28.1 | 0 | 28.79 | 28.79 | 0 | 29.09 | 29.09 | 0 | 30.52 | 30.52 | 0 | |
| 264510 | 27.59 | 27.59 | 0 | 28.65 | 28.65 | 0 | 29.29 | 29.29 | 0 | 29.59 | 29.59 | 0 | 30.78 | 30.78 | 0 | |
| 264520 | 27.61 | 27.61 | 0 | 28.72 | 28.72 | 0 | 29.34 | 29.34 | 0 | 29.64 | 29.64 | 0 | 30.92 | 30.92 | 0 | |
| 264530 | 27.59 | 27.59 | 0 | 28.65 | 28.65 | 0 | 29.29 | 29.29 | 0 | 29.59 | 29.59 | 0 | 30.78 | 30.78 | 0 | |
| 264540 | 27.65 | 27.65 | 0 | 28.67 | 28.67 | 0 | 29.29 | 29.29 | 0 | 29.6 | 29.6 | 0 | 30.78 | 30.78 | 0 | |
| 264550 | 29.29 | 29.29 | 0 | 30.3 | 30.3 | 0 | 30.51 | 30.51 | 0 | 30.59 | 30.59 | 0 | 30.94 | 30.94 | 0 | |
| 264560 | 27.58 | 27.58 | 0 | 28.17 | 28.17 | 0 | 28.54 | 28.54 | 0 | 28.82 | 28.82 | 0 | 29.85 | 29.85 | 0 | |
| 264570 | 27.63 | 27.63 | 0 | 28.38 | 28.38 | 0 | 28.82 | 28.82 | 0 | 29.05 | 29.05 | 0 | 30.01 | 30.01 | 0 | |
| 264580 | 29.87 | 29.87 | 0 | 30.1 | 30.1 | 0 | 30.22 | 30.22 | 0 | 30.28 | 30.28 | 0 | 30.58 | 30.58 | 0 | |
| 264590 | 30.25 | 30.25 | 0 | 30.84 | 30.84 | 0 | 32.11 | 32.11 | 0 | 32.6 | 32.6 | 0 | 33.46 | 33.46 | 0 | |
| 264600 | 31.48 | 31.48 | 0 | 32.42 | 32.42 | 0 | 32.64 | 32.64 | 0 | 32.74 | 32.74 | 0 | 33.47 | 33.47 | 0 | |
| 264610 | 28.36 | 28.36 | 0 | 29.41 | 29.41 | 0 | 29.85 | 29.85 | 0 | 30.05 | 30.05 | 0 | 30.95 | 30.95 | 0 | |
| 264700 | 26.18 | 26.18 | 0 | 27.85 | 27.85 | 0 | 28.52 | 28.52 | 0 | 28.8 | 28.8 | 0 | 29.84 | 29.84 | 0 | |
| 264710 | 26.18 | 26.18 | 0 | 27.69 | 27.69 | 0 | 28.21 | 28.21 | 0 | 28.52 | 28.52 | 0 | 29.76 | 29.76 | 0 | |
| 264720 | 26.18 | 26.18 | 0 | 27.69 | 27.69 | 0 | 28.21 | 28.21 | 0 | 28.53 | 28.53 | 0 | 30.07 | 30.07 | 0 | |
| 264730 | 28.62 | 28.62 | 0 | 29.3 | 29.3 | 0 | 29.54 | 29.54 | 0 | 29.65 | 29.65 | 0 | 30.24 | 30.24 | 0 | |
| 264740 | 28.62 | 28.62 | 0 | 29.31 | 29.31 | 0 | 29.54 | 29.54 | 0 | 29.65 | 29.65 | 0 | 30.25 | 30.25 | 0 | |
| 264750 | 26.24 | 26.24 | 0 | 27.93 | 27.93 | 0 | 28.62 | 28.62 | 0 | 28.9 | 28.9 | 0 | 29.97 | 29.97 | 0 | |
| 264760 | 26.25 | 26.25 | 0 | 27.94 | 27.94 | 0 | 28.62 | 28.62 | 0 | 28.9 | 28.9 | 0 | 29.97 | 29.97 | 0 | |
| 264770 | 26.32 | 26.32 | 0 | 28.02 | 28.02 | 0 | 28.71 | 28.71 | 0 | 29 | 29 | 0 | 30.1 | 30.1 | 0 | |
| 264780 | 26.38 | 26.38 | 0 | 28.13 | 28.13 | 0 | 28.83 | 28.83 | 0 | 29.1 | 29.1 | 0 | 30.16 | 30.16 | 0 | |
| 264790 | 28.36 | 28.36 | 0 | 28.51 | 28.51 | 0 | 28.85 | 28.85 | 0 | 29.11 | 29.11 | 0 | 30.16 | 30.16 | 0 | |
| 264800 | 28.71 | 28.71 | 0 | 29.28 | 29.28 | 0 | 29.51 | 29.51 | 0 | 29.62 | 29.62 | 0 | 30.25 | 30.25 | 0 | |
| 264810 | 28.84 | 28.84 | 0 | 29.29 | 29.29 | 0 | 29.52 | 29.52 | 0 | 29.63 | 29.63 | 0 | 30.25 | 30.25 | 0 | |
| 264820 | 28.34 | 28.34 | 0 | 28.84 | 28.84 | 0 | 29.08 | 29.08 | 0 | 29.2 | 29.2 | 0 | 30.1 | 30.1 | 0 | |
| 264830 | 26.32 | 26.32 | 0 | 28.02 | 28.02 | 0 | 28.71 | 28.71 | 0 | 29 | 29 | 0 | 30.1 | 30.1 | 0 | |
| 264840 | 26.32 | 26.32 | 0 | 28.02 | 28.02 | 0 | 28.71 | 28.71 | 0 | 29 | 29 | 0 | 30.1 | 30.1 | 0 | |
| 264850 | 29.83 | 29.83 | 0 | 30.01 | 30.01 | 0 | 30.1 | 30.1 | 0 | 30.14 | 30.14 | 0 | 30.35 | 30.35 | 0 | |
| 264860 | 26.32 | 26.32 | 0 | 28.02 | 28.02 | 0 | 28.71 | 28.71 | 0 | 29 | 29 | 0 | 30.1 | 30.1 | 0 | |
| 264870 | 26.32 | 26.32 | 0 | 28.02 | 28.02 | 0 | 28.71 | 28.71 | 0 | 29 | 29 | 0 | 30.1 | 30.1 | 0 | |
| 264880 | 26.32 | 26.32 | 0 | 28.02 | 28.02 | 0 | 28.71 | 28.71 | 0 | 29 | 29 | 0 | 30.1 | 30.1 | 0 | |
| 264890 | 26.32 | 26.32 | 0 | 28.02 | 28.02 | 0 | 28.71 | 28.71 | 0 | 29 | 29 | 0 | 30.1 | 30.1 | 0 | |
| 264900 | 27.51 | 27.51 | 0 | 29.37 | 29.37 | 0 | 29.78 | 29.78 | 0 | 29.96 | 29.96 | 0 | 30.63 | 30.63 | 0 | |
| 264910 | 28.98 | 28.98 | 0 | 29.41 | 29.41 | 0 | 29.79 | 29.79 | 0 | 29.97 | 29.97 | 0 | 30.63 | 30.63 | 0 | |
| 264920 | 29.05 | 29.05 | 0 | 29.54 | 29.54 | 0 | 29.87 | 29.87 | 0 | 30.05 | 30.05 | 0 | 30.67 | 30.67 | 0 | |
| 264930 | 29.13 | 29.13 | 0 | 29.81 | 29.81 | 0 | 30.13 | 30.13 | 0 | 30.25 | 30.25 | 0 | 30.74 | 30.74 | 0 | |
| 264940 | 29.16 | 29.16 | 0 | 29.85 | 29.85 | 0 | 30.17 | 30.17 | 0 | 30.28 | 30.28 | 0 | 30.75 | 30.75 | 0 | |
| 264950 | 26.32 | 26.32 | 0 | 28.02 | 28.02 | 0 | 28.71 | 28.71 | 0 | 29 | 29 | 0 | 30.1 | 30.1 | 0 | |
| 264960 | 28.36 | 28.36 | 0 | 28.87 | 28.87 | 0 | 29.1 | 29.1 | 0 | 29.21 | 29.21 | 0 | 30.1 | 30.1 | 0 | |
| 264970 | 28.38 | 28.38 | 0 | 28.91 | 28.91 | 0 | 29.17 | 29.17 | 0 | 29.29 | 29.29 | 0 | 30.1 | 30.1 | 0 | |
| 265000 | 26.62 | 26.62 | 0 | 28.83 | 28.83 | 0 | 29.84 | 29.84 | 0 | 30.15 | 30.15 | 0 | 31.15 | 31.15 | 0 | |
| 265010 | 29.6 | 29.6 | 0 | 30.71 | 30.71 | 0 | 31.16 | 31.16 | 0 | 31.35 | 31.35 | 0 | 32.15 | 32.15 | 0 | |
| 265020 | 28.88 | 28.88 | 0 | 29.56 | 29.56 | 0 | 29.81 | 29.81 | 0 | 29.96 | 29.96 | 0 | 30.85 | 30.85 | 0 | |
| 265030 | 27.08 | 27.08 | 0 | 29.99 | 29.99 | 0 | 30.8 | 30.8 | 0 | 31.09 | 31.09 | 0 | 31.97 | 31.97 | 0 | |
| 265040 | 30.39 | 30.39 | 0 | 31.56 | 31.56 | 0 | 31.99 | 31.99 | 0 | 32.17 | 32.17 | 0 | 32.89 | 32.89 | 0 | |
| 265050 | 29.87 | 29.87 | 0 | 30.96 | 30.96 | 0 | 31.4 | 31.4 | 0 | 31.58 | 31.58 | 0 | 32.35 | 32.35 | 0 | |
| 265060 | 26.17 | 26.17 | 0 | 27.87 | 27.87 | 0 | 29.43 | 29.43 | 0 | 29.79 | 29.79 | 0 | 31.01 | 31.01 | 0 | |
| 265070 | 26.53 | 26.53 | 0 | 29.05 | 29.05 | 0 | 30.23 | 30.23 | 0 | 30.63 | 30.63 | 0 | 31.97 | 31.97 | 0 | |
| 265100 | 27.76 | 27.76 | 0 | 28.53 | 28.53 | 0 | 28.84 | 28.84 | 0 | 29.03 | 29.03 | 0 | 30.13 | 30.13 | 0 | |
| 265110 | 29.19 | 29.19 | 0 | 29.64 | 29.64 | 0 | 29.82 | 29.82 | 0 | 29.91 | 29.91 | 0 | 30.39 | 30.39 | 0 | |
| 265120 | 29.3 | 29.3 | 0 | 29.88 | 29.88 | 0 | 30.14 | 30.14 | 0 | 30.26 | 30.26 | 0 | 30.86 | 30.86 | 0 | |
| 265130 | 29.38 | 29.38 | 0 | 29.92 | 29.92 | 0 | 30.17 | 30.17 | 0 | 30.28 | 30.28 | 0 | 30.88 | 30.88 | 0 | |
| 265140 | 29.51 | 29.51 | 0 | 30.11 | 30.11 | 0 | 30.39 | 30.39 | 0 | 30.51 | 30.51 | 0 | 31.14 | 31.14 | 0 | |
| 265150 | 29.51 | 29.51 | 0 | 30.09 | | | | | | | | | | | | |

Summary of Corrected and Revised Stages for Bridge

| Node | 2.33YR24HR | | | 25YR24HR | | | 50YR24HR | | | 100YR24HR | | | 500YR24HR | | | Notes |
|--------|--------------------------------|---------------------|-----------------|--------------------------------|---------------------|-----------------|--------------------------------|---------------------|-----------------|--------------------------------|---------------------|-----------------|--------------------------------|---------------------|-----------------|-------|
| | Corrected Effective Stage (ft) | Proposed Stage (ft) | Difference (ft) | Corrected Effective Stage (ft) | Proposed Stage (ft) | Difference (ft) | Corrected Effective Stage (ft) | Proposed Stage (ft) | Difference (ft) | Corrected Effective Stage (ft) | Proposed Stage (ft) | Difference (ft) | Corrected Effective Stage (ft) | Proposed Stage (ft) | Difference (ft) | |
| 265200 | 29.2 | 29.2 | 0 | 29.71 | 29.71 | 0 | 29.94 | 29.94 | 0 | 30.06 | 30.06 | 0 | 30.63 | 30.63 | 0 | |
| 265210 | 29.21 | 29.21 | 0 | 29.74 | 29.74 | 0 | 29.99 | 29.99 | 0 | 30.1 | 30.1 | 0 | 30.65 | 30.65 | 0 | |
| 265220 | 29.21 | 29.21 | 0 | 29.74 | 29.74 | 0 | 29.99 | 29.99 | 0 | 30.1 | 30.1 | 0 | 30.65 | 30.65 | 0 | |
| 265230 | 29.21 | 29.21 | 0 | 29.75 | 29.75 | 0 | 30 | 30 | 0 | 30.13 | 30.13 | 0 | 30.7 | 30.7 | 0 | |
| 265240 | 29.22 | 29.22 | 0 | 29.81 | 29.81 | 0 | 30.19 | 30.19 | 0 | 30.34 | 30.34 | 0 | 30.98 | 30.98 | 0 | |
| 265250 | 30.5 | 30.5 | 0 | 30.71 | 30.71 | 0 | 30.81 | 30.81 | 0 | 30.86 | 30.86 | 0 | 31.16 | 31.16 | 0 | |
| 265260 | 29.33 | 29.33 | 0 | 29.99 | 29.99 | 0 | 30.3 | 30.3 | 0 | 30.45 | 30.45 | 0 | 31.18 | 31.18 | 0 | |
| 265270 | 29.69 | 29.69 | 0 | 30.25 | 30.25 | 0 | 30.53 | 30.53 | 0 | 30.66 | 30.66 | 0 | 31.22 | 31.22 | 0 | |
| 265280 | 29.64 | 29.64 | 0 | 30.43 | 30.43 | 0 | 30.78 | 30.78 | 0 | 30.94 | 30.94 | 0 | 31.67 | 31.67 | 0 | |
| 265290 | 29.78 | 29.78 | 0 | 30.52 | 30.52 | 0 | 30.85 | 30.85 | 0 | 31 | 31 | 0 | 31.7 | 31.7 | 0 | |
| 265300 | 29.79 | 29.79 | 0 | 30.52 | 30.52 | 0 | 30.85 | 30.85 | 0 | 31 | 31 | 0 | 31.71 | 31.71 | 0 | |
| 265400 | 26.01 | 26.01 | 0 | 27.86 | 27.86 | 0 | 28.55 | 28.55 | 0 | 28.83 | 28.83 | 0 | 29.82 | 29.82 | 0 | |
| 265410 | 26.16 | 26.16 | 0 | 27.86 | 27.86 | 0 | 28.55 | 28.55 | 0 | 28.83 | 28.83 | 0 | 29.82 | 29.82 | 0 | |
| 265420 | 26.15 | 26.15 | 0 | 27.85 | 27.85 | 0 | 28.53 | 28.53 | 0 | 28.81 | 28.81 | 0 | 29.79 | 29.79 | 0 | |
| 265430 | 26.15 | 26.15 | 0 | 27.85 | 27.85 | 0 | 28.53 | 28.53 | 0 | 28.81 | 28.81 | 0 | 29.79 | 29.79 | 0 | |
| 265440 | 27.99 | 27.99 | 0 | 28.21 | 28.21 | 0 | 28.53 | 28.53 | 0 | 28.81 | 28.81 | 0 | 29.79 | 29.79 | 0 | |
| 265460 | 26.15 | 26.15 | 0 | 27.85 | 27.85 | 0 | 28.54 | 28.54 | 0 | 28.82 | 28.82 | 0 | 29.79 | 29.79 | 0 | |
| 265470 | 26.15 | 26.15 | 0 | 27.85 | 27.85 | 0 | 28.54 | 28.54 | 0 | 28.82 | 28.82 | 0 | 29.79 | 29.79 | 0 | |
| 265480 | 26.01 | 26.01 | 0 | 27.86 | 27.86 | 0 | 28.55 | 28.55 | 0 | 28.83 | 28.83 | 0 | 29.82 | 29.82 | 0 | |
| 265490 | 27.13 | 27.13 | 0 | 27.87 | 27.87 | 0 | 28.55 | 28.55 | 0 | 28.83 | 28.83 | 0 | 29.84 | 29.84 | 0 | |
| 265500 | 26.65 | 26.65 | 0 | 28.17 | 28.17 | 0 | 28.86 | 28.86 | 0 | 29.04 | 29.04 | 0 | 29.81 | 29.81 | 0 | |
| 265510 | 28.1 | 28.1 | 0 | 28.59 | 28.59 | 0 | 28.86 | 28.86 | 0 | 29.04 | 29.04 | 0 | 29.81 | 29.81 | 0 | |
| 265520 | 28.14 | 28.14 | 0 | 28.92 | 28.92 | 0 | 29.35 | 29.35 | 0 | 29.6 | 29.6 | 0 | 30.35 | 30.35 | 0 | |
| 265530 | 28.78 | 28.78 | 0 | 29.53 | 29.53 | 0 | 29.73 | 29.73 | 0 | 29.82 | 29.82 | 0 | 30.37 | 30.37 | 0 | |
| 265540 | 26.37 | 26.37 | 0 | 27.87 | 27.87 | 0 | 28.55 | 28.55 | 0 | 28.83 | 28.83 | 0 | 29.81 | 29.81 | 0 | |
| 265550 | 29.4 | 29.4 | 0 | 29.79 | 29.79 | 0 | 29.9 | 29.9 | 0 | 29.93 | 29.93 | 0 | 30.06 | 30.06 | 0 | |
| 265560 | 29.79 | 29.79 | 0 | 30.91 | 30.91 | 0 | 31.32 | 31.32 | 0 | 31.45 | 31.45 | 0 | 32 | 32 | 0 | |
| 265600 | 26.48 | 26.48 | 0 | 27.93 | 27.93 | 0 | 28.55 | 28.55 | 0 | 28.83 | 28.83 | 0 | 29.79 | 29.79 | 0 | |
| 265610 | 27.08 | 27.08 | 0 | 27.96 | 27.96 | 0 | 28.55 | 28.55 | 0 | 28.83 | 28.83 | 0 | 29.79 | 29.79 | 0 | |
| 265620 | 27.08 | 27.08 | 0 | 27.96 | 27.96 | 0 | 28.55 | 28.55 | 0 | 28.83 | 28.83 | 0 | 29.79 | 29.79 | 0 | |
| 265630 | 27.12 | 27.12 | 0 | 28.35 | 28.35 | 0 | 28.91 | 28.91 | 0 | 29.01 | 29.01 | 0 | 29.78 | 29.78 | 0 | |
| 265640 | 28.5 | 28.5 | 0 | 28.89 | 28.89 | 0 | 28.99 | 28.99 | 0 | 29.05 | 29.05 | 0 | 29.78 | 29.78 | 0 | |
| 265650 | 26.46 | 26.46 | 0 | 27.86 | 27.86 | 0 | 28.55 | 28.55 | 0 | 28.83 | 28.83 | 0 | 29.79 | 29.79 | 0 | |
| 265660 | 27.69 | 27.69 | 0 | 28.02 | 28.02 | 0 | 28.55 | 28.55 | 0 | 28.83 | 28.83 | 0 | 29.79 | 29.79 | 0 | |
| 265670 | 26.46 | 26.46 | 0 | 27.86 | 27.86 | 0 | 28.55 | 28.55 | 0 | 28.83 | 28.83 | 0 | 29.79 | 29.79 | 0 | |
| 265680 | 27.25 | 27.25 | 0 | 27.86 | 27.86 | 0 | 28.55 | 28.55 | 0 | 28.83 | 28.83 | 0 | 29.79 | 29.79 | 0 | |
| 265690 | 26.46 | 26.46 | 0 | 27.86 | 27.86 | 0 | 28.55 | 28.55 | 0 | 28.83 | 28.83 | 0 | 29.79 | 29.79 | 0 | |
| 265700 | 26.83 | 26.83 | 0 | 28.67 | 28.67 | 0 | 29.36 | 29.36 | 0 | 29.59 | 29.59 | 0 | 30.39 | 30.39 | 0 | |
| 265710 | 28.14 | 28.14 | 0 | 29.04 | 29.04 | 0 | 29.48 | 29.48 | 0 | 29.66 | 29.66 | 0 | 30.41 | 30.41 | 0 | |
| 265720 | 28.15 | 28.15 | 0 | 29.06 | 29.06 | 0 | 29.5 | 29.5 | 0 | 29.68 | 29.68 | 0 | 30.42 | 30.42 | 0 | |
| 265730 | 26.56 | 26.56 | 0 | 28.06 | 28.06 | 0 | 28.66 | 28.66 | 0 | 28.85 | 28.85 | 0 | 29.78 | 29.78 | 0 | |
| 265740 | 27.41 | 27.41 | 0 | 28.06 | 28.06 | 0 | 28.66 | 28.66 | 0 | 28.85 | 28.85 | 0 | 29.78 | 29.78 | 0 | |
| 265750 | 26.63 | 26.63 | 0 | 28.21 | 28.21 | 0 | 28.67 | 28.67 | 0 | 28.85 | 28.85 | 0 | 29.78 | 29.78 | 0 | |
| 265760 | 27.27 | 27.27 | 0 | 28.22 | 28.22 | 0 | 28.67 | 28.67 | 0 | 28.85 | 28.85 | 0 | 29.78 | 29.78 | 0 | |
| 265770 | 27.33 | 27.33 | 0 | 28.33 | 28.33 | 0 | 28.75 | 28.75 | 0 | 28.89 | 28.89 | 0 | 29.78 | 29.78 | 0 | |
| 265780 | 28.37 | 28.37 | 0 | 28.78 | 28.78 | 0 | 28.94 | 28.94 | 0 | 29 | 29 | 0 | 29.78 | 29.78 | 0 | |
| 265790 | 27.4 | 27.4 | 0 | 28.85 | 28.85 | 0 | 29.19 | 29.19 | 0 | 29.33 | 29.33 | 0 | 29.94 | 29.94 | 0 | |
| 265800 | 28.65 | 28.65 | 0 | 28.98 | 28.98 | 0 | 29.19 | 29.19 | 0 | 29.33 | 29.33 | 0 | 29.94 | 29.94 | 0 | |
| 265810 | 26.67 | 26.67 | 0 | 28.37 | 28.37 | 0 | 28.86 | 28.86 | 0 | 29.05 | 29.05 | 0 | 29.79 | 29.79 | 0 | |
| 265820 | 26.72 | 26.72 | 0 | 28.43 | 28.43 | 0 | 28.95 | 28.95 | 0 | 29.13 | 29.13 | 0 | 29.82 | 29.82 | 0 | |
| 265830 | 27.62 | 27.62 | 0 | 28.6 | 28.6 | 0 | 28.96 | 28.96 | 0 | 29.14 | 29.14 | 0 | 29.82 | 29.82 | 0 | |
| 265900 | 26.62 | 26.62 | 0 | 28.33 | 28.33 | 0 | 28.84 | 28.84 | 0 | 29.03 | 29.03 | 0 | 29.79 | 29.79 | 0 | |
| 265910 | 26.62 | 26.62 | 0 | 28.33 | 28.33 | 0 | 28.84 | 28.84 | 0 | 29.03 | 29.03 | 0 | 29.79 | 29.79 | 0 | |
| 265940 | 26.65 | 26.65 | 0 | 28.3 | 28.3 | 0 | 28.81 | 28.81 | 0 | 29.01 | 29.01 | 0 | 29.78 | 29.78 | 0 | |
| 265950 | 28.6 | 28.6 | 0 | 29.97 | 29.97 | 0 | 30.46 | 30.46 | 0 | 30.66 | 30.66 | 0 | 31.52 | 31.52 | 0 | |
| 265960 | 30.2 | 30.2 | 0 | 30.32 | 30.32 | 0 | 30.39 | 30.39 | 0 | 30.42 | 30.42 | 0 | 30.57 | 30.57 | 0 | |
| 265970 | 28.16 | 28.16 | 0 | 28.66 | 28.66 | 0 | 28.87 | 28.87 | 0 | 28.96 | 28.96 | 0 | 29.79 | 29.79 | 0 | |
| 265980 | 28.33 | 28.33 | 0 | 29.03 | 29.03 | 0 | 29.22 | 29.22 | 0 | 29.28 | 29.28 | 0 | 29.78 | 29.78 | 0 | |
| 265990 | 28.84 | 28.84 | 0 | 29.03 | 29.03 | 0 | 29.22 | 29.22 | 0 | 29.28 | 29.28 | 0 | 29.78 | 29.78 | 0 | |
| 266000 | 29.16 | 29.16 | 0 | 29.63 | 29.63 | 0 | 29.83 | 29.83 | 0 | 29.92 | 29.92 | 0 | 30.4 | 30.4 | 0 | |
| 266010 | 26.46 | 26.46 | 0 | 27.86 | 27.86 | 0 | 28.55 | 28.55 | 0 | 28.83 | 28.83 | 0 | 29.79 | 29.79 | 0 | |
| 266110 | 29.31 | 29.31 | 0 | 31.02 | 31.02 | 0 | 31.54 | 31.54 | 0 | 31.76 | 31.76 | 0 | 32.62 | 32.62 | 0 | |
| 266120 | 29.31 | 29.31 | 0 | 31.02 | 31.02 | 0 | 31.54 | 31.54 | 0 | 31.76 | 31.76 | 0 | 32.62 | 32.62 | 0 | |
| 266130 | 29.35 | 29.35 | 0 | 31.02 | 31.02 | 0 | 31.53 | 31.53 | 0 | 31.75 | 31.75 | 0 | 32.58 | 32.58 | 0 | |
| 266140 | 30.51 | 30.51 | 0 | 31.02 | 31.02 | 0 | 31.53 | 31.53 | 0 | 31.76 | 31.76 | 0 | 32.58 | 32.58 | 0 | |
| 266150 | 34.99 | 34.99 | 0 | 35.23 | 35.23 | 0 | 35.35 | 35.35 | 0 | 35.41 | 35.41 | 0 | 35.71 | 35.71 | 0 | |
| 266160 | 29.59 | 29.59 | 0 | 31.45 | 31.45 | 0 | 31.89 | 31.89 | 0 | 32.07 | 32.07 | 0 | 32.95 | 32.95 | 0 | |
| 266170 | 30.94 | 30.94 | 0 | 31.49 | 31.49 | 0 | 31.9 | 31.9 | 0 | 32.08 | 32.08 | 0 | 32.95 | 32.95 | 0 | |
| 266180 | 34.8 | 34.8 | 0 | 35.37 | 35.37 | 0 | 35.53 | 35.53 | 0 | 35.6 | 35.6 | 0 | 35.92 | 35.92 | 0 | |
| 266190 | 35.3 | 35.3 | 0 | 36.81 | 36.81 | 0 | 37.2 | 37.2 | 0 | 37.34 | 37.34 | 0 | 37.89 | 37.89 | 0 | |
| 266200 | 35.92 | 35.92 | 0 | 38.33 | 38.33 | 0 | 38.64 | 38.64 | 0 | 38.75 | 38.75 | 0 | 39.13 | 39.13 | 0 | |
| 266210 | 38.28 | 38.28 | 0 | 38.56 | 38.56 | 0 | 38.75 | 38.75 | 0 | 38.83 | 38.83 | 0 | 39.16 | 39.16 | 0 | |
| 266220 | 39.35 | 39.35 | 0 | 39.65 | 39.65 | 0 | 39.78 | 39.78 | 0 | 39.84 | 39.84 | 0 | 40.1 | 40.1 | 0 | |
| 266230 | 39.63 | 39.63 | 0 | 40.16 | 40.16 | 0 | 40.41 | 40.41 | 0 | 40.52 | 40.52 | 0 | 41.05 | 41.05 | 0 | |
| 266240 | 35.34 | 35.34 | 0 | 37.2 | 37.2 | 0 | 38.26 | 38.26 | 0 | 38.53 | 38.53 | 0 | 39.05 | 39.05 | 0 | |
| 266250 | 38.5 | 38.5 | 0 | 38.65 | 38.65 | 0 | 38.72 | 38.72 | 0 | 38.75 | 38.75 | 0 | 39.06 | 39.06 | 0 | |
| 266260 | 34.24 | 34.24 | 0 | 34.74 | 34.74 | 0 | 34.91 | 34.91 | 0 | 35.05 | 35.05 | 0 | 35.65 | 35.65 | 0 | |
| 266270 | 31.86 | 31.86 | 0 | 34.92 | 34.92 | 0 | 35.31 | 35.31 | 0 | 35.35 | 35.35 | 0 | 35.65 | 35.65 | 0 | |
| 266280 | 27.98 | 27.98 | 0 | 29.12 | 29.12 | 0 | 29.99 | 29.99 | 0 | 30.58 | 30.58 | 0 | 32.52 | 32.52 | 0 | |
| 266290 | 33.77 | 33.77 | 0 | 34.78 | 34.78 | 0 | 35.22 | 35.22 | 0 | 35.4 | 35.4 | 0 | 35.7 | 35.7 | 0 | |
| 266300 | 29.88 | 29.88 | 0 | 31.94 | 31.94 | 0 | 32.89 | 32.89 | 0 | 33.33 | 33.33 | 0 | 35.6 | 35.6 | 0 | |
| 266310 | 33.78 | 33.78 | 0 | 34.96 | 34.96 | 0 | 35.77 | 35.77 | 0 | 35.98 | 35.98 | 0 | 36.57 | 36.57 | 0 | |
| 266320 | 34.4 | 34.4 | 0 | 35.35 | 35.35 | 0 | 35.85 | 35.85 | 0 | 36.03 | 36.03 | 0 | 36.59 | 36.59 | | |

Summary of Corrected and Revised Stages for Bridge

| Node | 2.33YR24HR | | | 25YR24HR | | | 50YR24HR | | | 100YR24HR | | | 500YR24HR | | | Notes |
|--------|--------------------------------|---------------------|-----------------|--------------------------------|---------------------|-----------------|--------------------------------|---------------------|-----------------|--------------------------------|---------------------|-----------------|--------------------------------|---------------------|-----------------|-------|
| | Corrected Effective Stage (ft) | Proposed Stage (ft) | Difference (ft) | Corrected Effective Stage (ft) | Proposed Stage (ft) | Difference (ft) | Corrected Effective Stage (ft) | Proposed Stage (ft) | Difference (ft) | Corrected Effective Stage (ft) | Proposed Stage (ft) | Difference (ft) | Corrected Effective Stage (ft) | Proposed Stage (ft) | Difference (ft) | |
| 266400 | 11.14 | 11.14 | 0 | 11.57 | 11.57 | 0 | 11.77 | 11.77 | 0 | 11.84 | 11.84 | 0 | 12.14 | 12.14 | 0 | |
| 266410 | 10.62 | 10.62 | 0 | 12.6 | 12.6 | 0 | 13.14 | 13.14 | 0 | 13.36 | 13.36 | 0 | 14.04 | 14.04 | 0 | |
| 266420 | 12.03 | 12.03 | 0 | 12.6 | 12.6 | 0 | 13.14 | 13.14 | 0 | 13.36 | 13.36 | 0 | 14.04 | 14.04 | 0 | |
| 266430 | 12.99 | 12.99 | 0 | 13.39 | 13.39 | 0 | 13.54 | 13.54 | 0 | 13.6 | 13.6 | 0 | 14.04 | 14.04 | 0 | |
| 266440 | 13.49 | 13.49 | 0 | 13.69 | 13.69 | 0 | 13.8 | 13.8 | 0 | 13.84 | 13.84 | 0 | 14.04 | 14.04 | 0 | |
| 266450 | 10.96 | 10.96 | 0 | 11.36 | 11.36 | 0 | 11.89 | 11.89 | 0 | 12.22 | 12.22 | 0 | 13.3 | 13.3 | 0 | |
| 266460 | 11.92 | 11.92 | 0 | 12.2 | 12.2 | 0 | 12.34 | 12.34 | 0 | 12.4 | 12.4 | 0 | 13.3 | 13.3 | 0 | |
| 266500 | 11.76 | 11.76 | 0 | 12.36 | 12.36 | 0 | 12.66 | 12.66 | 0 | 12.81 | 12.81 | 0 | 14.14 | 14.14 | 0 | |
| 266510 | 11.83 | 11.83 | 0 | 12.78 | 12.78 | 0 | 13.36 | 13.36 | 0 | 13.55 | 13.55 | 0 | 14.31 | 14.31 | 0 | |
| 266520 | 12.65 | 12.65 | 0 | 13.23 | 13.23 | 0 | 13.48 | 13.48 | 0 | 13.59 | 13.59 | 0 | 14.31 | 14.31 | 0 | |
| 266600 | 19.51 | 19.51 | 0 | 20.6 | 20.6 | 0 | 21.08 | 21.08 | 0 | 21.28 | 21.28 | 0 | 22.15 | 22.15 | 0 | |
| 266610 | 21.69 | 21.69 | 0 | 21.9 | 21.9 | 0 | 22.09 | 22.09 | 0 | 22.18 | 22.18 | 0 | 22.56 | 22.56 | 0 | |
| 266620 | 22.94 | 22.94 | 0 | 24.07 | 24.07 | 0 | 24.46 | 24.46 | 0 | 24.62 | 24.62 | 0 | 25.24 | 25.24 | 0 | |
| 266630 | 22.09 | 22.09 | 0 | 22.56 | 22.56 | 0 | 22.92 | 22.92 | 0 | 23.08 | 23.08 | 0 | 23.85 | 23.85 | 0 | |
| 266640 | 23.12 | 23.12 | 0 | 23.83 | 23.83 | 0 | 24.14 | 24.14 | 0 | 24.3 | 24.3 | 0 | 25.05 | 25.05 | 0 | |
| 266650 | 14.74 | 14.74 | 0 | 15.67 | 15.67 | 0 | 16.01 | 16.01 | 0 | 16.16 | 16.16 | 0 | 16.71 | 16.71 | 0 | |
| 266700 | 35.54 | 35.54 | 0 | 36.42 | 36.42 | 0 | 36.7 | 36.7 | 0 | 36.78 | 36.78 | 0 | 37.07 | 37.07 | 0 | |
| 266710 | 35.56 | 35.56 | 0 | 36.55 | 36.55 | 0 | 36.91 | 36.91 | 0 | 37.04 | 37.04 | 0 | 37.48 | 37.48 | 0 | |
| 266720 | 36.17 | 36.17 | 0 | 36.82 | 36.82 | 0 | 37.35 | 37.35 | 0 | 37.53 | 37.53 | 0 | 38.26 | 38.26 | 0 | |
| 266730 | 38.21 | 38.21 | 0 | 39.1 | 39.1 | 0 | 39.54 | 39.54 | 0 | 39.7 | 39.7 | 0 | 40.62 | 40.62 | 0 | |
| 266740 | 40.34 | 40.34 | 0 | 40.87 | 40.87 | 0 | 41.1 | 41.1 | 0 | 41.19 | 41.19 | 0 | 41.47 | 41.47 | 0 | |
| 266750 | 40.28 | 40.28 | 0 | 40.35 | 40.35 | 0 | 40.4 | 40.4 | 0 | 40.53 | 40.53 | 0 | 41.49 | 41.49 | 0 | |
| 266760 | 40.28 | 40.28 | 0 | 40.35 | 40.35 | 0 | 40.4 | 40.4 | 0 | 40.53 | 40.53 | 0 | 41.46 | 41.46 | 0 | |
| 266770 | 32.03 | 32.03 | 0 | 33.57 | 33.57 | 0 | 33.75 | 33.75 | 0 | 33.8 | 33.8 | 0 | 34.22 | 34.22 | 0 | |
| 266810 | 1.72 | 1.72 | 0 | 1.82 | 1.82 | 0 | 1.88 | 1.88 | 0 | 1.92 | 1.92 | 0 | 2.1 | 2.1 | 0 | |
| 270005 | 3.43 | 3.43 | 0 | 3.91 | 3.91 | 0 | 4.15 | 4.15 | 0 | 4.27 | 4.27 | 0 | 4.8 | 4.8 | 0 | |
| 270010 | 3.45 | 3.45 | 0 | 3.92 | 3.92 | 0 | 4.16 | 4.16 | 0 | 4.28 | 4.28 | 0 | 4.8 | 4.8 | 0 | |
| 270020 | 6.49 | 6.49 | 0 | 7.71 | 7.71 | 0 | 7.97 | 7.97 | 0 | 8.08 | 8.08 | 0 | 8.53 | 8.53 | 0 | |
| 270030 | 4.62 | 4.62 | 0 | 5.04 | 5.04 | 0 | 5.18 | 5.18 | 0 | 5.24 | 5.24 | 0 | 5.53 | 5.53 | 0 | |
| 270040 | 4.97 | 4.97 | 0 | 6.64 | 6.64 | 0 | 7.46 | 7.46 | 0 | 7.75 | 7.75 | 0 | 8.94 | 8.94 | 0 | |
| 270050 | 5.85 | 5.85 | 0 | 6.99 | 6.99 | 0 | 7.55 | 7.55 | 0 | 7.81 | 7.81 | 0 | 8.96 | 8.96 | 0 | |
| 270060 | 5.43 | 5.43 | 0 | 5.94 | 5.94 | 0 | 6.17 | 6.17 | 0 | 6.26 | 6.26 | 0 | 6.6 | 6.6 | 0 | |
| 270070 | 6.17 | 6.17 | 0 | 6.89 | 6.89 | 0 | 7.19 | 7.19 | 0 | 7.32 | 7.32 | 0 | 7.87 | 7.87 | 0 | |
| 270080 | 6.28 | 6.28 | 0 | 6.98 | 6.98 | 0 | 7.28 | 7.28 | 0 | 7.41 | 7.41 | 0 | 7.95 | 7.95 | 0 | |
| 280010 | 2.21 | 2.21 | 0 | 3.23 | 3.23 | 0 | 3.72 | 3.72 | 0 | 3.93 | 3.93 | 0 | 4.71 | 4.71 | 0 | |
| 280020 | 2.84 | 2.84 | 0 | 4.26 | 4.26 | 0 | 4.85 | 4.85 | 0 | 5.09 | 5.09 | 0 | 5.98 | 5.98 | 0 | |
| 280030 | 3.5 | 3.5 | 0 | 5.09 | 5.09 | 0 | 5.71 | 5.71 | 0 | 5.96 | 5.96 | 0 | 6.89 | 6.89 | 0 | |
| 280040 | 3.5 | 3.5 | 0 | 5.11 | 5.11 | 0 | 5.74 | 5.74 | 0 | 6 | 6 | 0 | 6.96 | 6.96 | 0 | |
| 280050 | 3.63 | 3.63 | 0 | 5.3 | 5.3 | 0 | 5.95 | 5.95 | 0 | 6.21 | 6.21 | 0 | 7.2 | 7.2 | 0 | |
| 280060 | 3.63 | 3.63 | 0 | 5.32 | 5.32 | 0 | 5.98 | 5.98 | 0 | 6.25 | 6.25 | 0 | 7.25 | 7.25 | 0 | |
| 280070 | 3.66 | 3.66 | 0 | 5.46 | 5.46 | 0 | 6.2 | 6.2 | 0 | 6.51 | 6.51 | 0 | 7.72 | 7.72 | 0 | |
| 280080 | 4.26 | 4.26 | 0 | 5.84 | 5.84 | 0 | 6.52 | 6.52 | 0 | 6.83 | 6.83 | 0 | 8.05 | 8.05 | 0 | |
| 280090 | 4.28 | 4.28 | 0 | 5.86 | 5.86 | 0 | 6.54 | 6.54 | 0 | 6.85 | 6.85 | 0 | 8.1 | 8.1 | 0 | |
| 280100 | 6.2 | 6.2 | 0 | 7.02 | 7.02 | 0 | 7.44 | 7.44 | 0 | 7.66 | 7.66 | 0 | 8.64 | 8.64 | 0 | |
| 280110 | 6.21 | 6.21 | 0 | 7.03 | 7.03 | 0 | 7.46 | 7.46 | 0 | 7.67 | 7.67 | 0 | 8.65 | 8.65 | 0 | |
| 280120 | 7.31 | 7.31 | 0 | 8.22 | 8.22 | 0 | 8.61 | 8.61 | 0 | 8.8 | 8.8 | 0 | 9.65 | 9.65 | 0 | |
| 280130 | 8.91 | 8.91 | 0 | 10.46 | 10.46 | 0 | 11.1 | 11.1 | 0 | 11.39 | 11.39 | 0 | 12.64 | 12.64 | 0 | |
| 280140 | 9.34 | 9.34 | 0 | 10.68 | 10.68 | 0 | 11.27 | 11.27 | 0 | 11.53 | 11.53 | 0 | 12.72 | 12.72 | 0 | |
| 280150 | 9.45 | 9.45 | 0 | 10.74 | 10.74 | 0 | 11.31 | 11.31 | 0 | 11.57 | 11.57 | 0 | 12.74 | 12.74 | 0 | |
| 280160 | 9.5 | 9.5 | 0 | 10.78 | 10.78 | 0 | 11.34 | 11.34 | 0 | 11.6 | 11.6 | 0 | 12.76 | 12.76 | 0 | |
| 280170 | 10.58 | 10.58 | 0 | 11.16 | 11.16 | 0 | 11.55 | 11.55 | 0 | 11.76 | 11.76 | 0 | 12.81 | 12.81 | 0 | |
| 280180 | 10.58 | 10.58 | 0 | 11.16 | 11.16 | 0 | 11.55 | 11.55 | 0 | 11.76 | 11.76 | 0 | 12.81 | 12.81 | 0 | |
| 280190 | 11.7 | 11.7 | 0 | 12.33 | 12.33 | 0 | 12.6 | 12.6 | 0 | 12.75 | 12.75 | 0 | 13.47 | 13.47 | 0 | |
| 280200 | 11.7 | 11.7 | 0 | 12.33 | 12.33 | 0 | 12.6 | 12.6 | 0 | 12.75 | 12.75 | 0 | 13.47 | 13.47 | 0 | |
| 280210 | 12.07 | 12.07 | 0 | 13.23 | 13.23 | 0 | 13.73 | 13.73 | 0 | 13.99 | 13.99 | 0 | 15.14 | 15.14 | 0 | |
| 280220 | 12.19 | 12.19 | 0 | 13.46 | 13.46 | 0 | 14.01 | 14.01 | 0 | 14.29 | 14.29 | 0 | 15.54 | 15.54 | 0 | |
| 280230 | 12.75 | 12.75 | 0 | 14.17 | 14.17 | 0 | 14.74 | 14.74 | 0 | 15 | 15 | 0 | 16.12 | 16.12 | 0 | |
| 280240 | 13.15 | 13.15 | 0 | 14.62 | 14.62 | 0 | 15.21 | 15.21 | 0 | 15.47 | 15.47 | 0 | 16.6 | 16.6 | 0 | |
| 280250 | 14.27 | 14.27 | 0 | 15.72 | 15.72 | 0 | 16.32 | 16.32 | 0 | 16.59 | 16.59 | 0 | 17.75 | 17.75 | 0 | |
| 280260 | 15.28 | 15.28 | 0 | 16.69 | 16.69 | 0 | 17.3 | 17.3 | 0 | 17.57 | 17.57 | 0 | 18.74 | 18.74 | 0 | |
| 280270 | 15.71 | 15.71 | 0 | 17.14 | 17.14 | 0 | 17.78 | 17.78 | 0 | 18.06 | 18.06 | 0 | 19.22 | 19.22 | 0 | |
| 280280 | 15.73 | 15.73 | 0 | 17.19 | 17.19 | 0 | 17.86 | 17.86 | 0 | 18.15 | 18.15 | 0 | 19.4 | 19.4 | 0 | |
| 280290 | 17.24 | 17.24 | 0 | 18.51 | 18.51 | 0 | 19.11 | 19.11 | 0 | 19.39 | 19.39 | 0 | 20.5 | 20.5 | 0 | |
| 280300 | 17.25 | 17.25 | 0 | 18.55 | 18.55 | 0 | 19.17 | 19.17 | 0 | 19.45 | 19.45 | 0 | 20.63 | 20.63 | 0 | |
| 280310 | 17.76 | 17.76 | 0 | 19.12 | 19.12 | 0 | 19.79 | 19.79 | 0 | 20.09 | 20.09 | 0 | 21.28 | 21.28 | 0 | |
| 280320 | 17.76 | 17.76 | 0 | 19.13 | 19.13 | 0 | 19.81 | 19.81 | 0 | 20.11 | 20.11 | 0 | 21.3 | 21.3 | 0 | |
| 280330 | 18.08 | 18.08 | 0 | 19.51 | 19.51 | 0 | 20.22 | 20.22 | 0 | 20.52 | 20.52 | 0 | 21.7 | 21.7 | 0 | |
| 280340 | 18.1 | 18.1 | 0 | 19.57 | 19.57 | 0 | 20.31 | 20.31 | 0 | 20.64 | 20.64 | 0 | 21.92 | 21.92 | 0 | |
| 280350 | 18.48 | 18.48 | 0 | 20 | 20 | 0 | 20.67 | 20.67 | 0 | 20.97 | 20.97 | 0 | 22.19 | 22.19 | 0 | |
| 280360 | 18.92 | 18.92 | 0 | 20.48 | 20.48 | 0 | 21.08 | 21.08 | 0 | 21.35 | 21.35 | 0 | 22.52 | 22.52 | 0 | |
| 280370 | 18.95 | 18.95 | 0 | 20.51 | 20.51 | 0 | 21.09 | 21.09 | 0 | 21.37 | 21.37 | 0 | 22.54 | 22.54 | 0 | |
| 280380 | 19.01 | 19.01 | 0 | 20.56 | 20.56 | 0 | 21.12 | 21.12 | 0 | 21.39 | 21.39 | 0 | 22.56 | 22.56 | 0 | |
| 280390 | 19.02 | 19.02 | 0 | 20.62 | 20.62 | 0 | 21.23 | 21.23 | 0 | 21.52 | 21.52 | 0 | 22.7 | 22.7 | 0 | |
| 280400 | 21.74 | 21.74 | 0 | 22.77 | 22.77 | 0 | 23.09 | 23.09 | 0 | 23.2 | 23.2 | 0 | 23.79 | 23.79 | 0 | |
| 280410 | 22.47 | 22.47 | 0 | 23.72 | 23.72 | 0 | 23.98 | 23.98 | 0 | 24.05 | 24.05 | 0 | 24.51 | 24.51 | 0 | |
| 280420 | 22.69 | 22.69 | 0 | 23.72 | 23.72 | 0 | 23.97 | 23.97 | 0 | 24.04 | 24.04 | 0 | 24.49 | 24.49 | 0 | |
| 280430 | 22.87 | 22.87 | 0 | 23.73 | 23.73 | 0 | 23.95 | 23.95 | 0 | 24.02 | 24.02 | 0 | 24.41 | 24.41 | 0 | |
| 280440 | 22.95 | 22.95 | 0 | 23.73 | 23.73 | 0 | 23.95 | 23.95 | 0 | 24.01 | 24.01 | 0 | 24.4 | 24.4 | 0 | |
| 280450 | 23.64 | 23.64 | 0 | 23.87 | 23.87 | 0 | 23.98 | 23.98 | 0 | 24.03 | 24.03 | 0 | 24.28 | 24.28 | 0 | |
| 280460 | 24.61 | 24.61 | 0 | 25.07 | 25.07 | 0 | 25.3 | 25.3 | 0 | 25.42 | 25.42 | 0 | 26.01 | 26.01 | 0 | |
| 280470 | 24.83 | 24.83 | 0 | 25.21 | 25.21 | 0 | 25.42 | 25.42 | 0 | 25.54 | 25.54 | 0 | 26.11 | 26.11 | 0 | |
| 280480 | 31.36 | 31.36 | 0 | 31.84 | 31.84 | 0 | 32.13 | 32.13 | 0 | 32.25 | 32.25 | 0 | 32.8 | 32.8 | 0 | |
| 280490 | 31.7 | 31.7 | 0 | 32.12 | 32.12 | 0 | 32.26 | 32.26 | 0 | 32.34 | 32.34 | 0 | 32.83 | 32.83 | 0 | |
| 280500 | 5.59 | 5.59 | 0 | 7.23 | 7.23 | 0 | 8.08 | 8.08 | 0 | 8.48 | 8.48 | 0 | 10.44 | 10.44 | 0 | |
| 280510 | 180.8 | 180.8 | 0 | 181.12 | 181.12 | 0 | 181.29 | 181.29 | 0 | 181.38</ | | | | | | |

Summary of Corrected and Revised Stages for Bridge

| Node | 2.33YR24HR | | | 25YR24HR | | | 50YR24HR | | | 100YR24HR | | | 500YR24HR | | | Notes |
|--------|--------------------------------|---------------------|-----------------|--------------------------------|---------------------|-----------------|--------------------------------|---------------------|-----------------|--------------------------------|---------------------|-----------------|--------------------------------|---------------------|-----------------|-------|
| | Corrected Effective Stage (ft) | Proposed Stage (ft) | Difference (ft) | Corrected Effective Stage (ft) | Proposed Stage (ft) | Difference (ft) | Corrected Effective Stage (ft) | Proposed Stage (ft) | Difference (ft) | Corrected Effective Stage (ft) | Proposed Stage (ft) | Difference (ft) | Corrected Effective Stage (ft) | Proposed Stage (ft) | Difference (ft) | |
| 280550 | 4.45 | 4.45 | 0 | 5.66 | 5.66 | 0 | 6.22 | 6.22 | 0 | 6.53 | 6.53 | 0 | 7.74 | 7.74 | 0 | |
| 280560 | 5.6 | 5.6 | 0 | 7.05 | 7.05 | 0 | 7.65 | 7.65 | 0 | 7.92 | 7.92 | 0 | 9.17 | 9.17 | 0 | |
| 280600 | 16.07 | 16.07 | 0 | 16.49 | 16.49 | 0 | 16.73 | 16.73 | 0 | 16.86 | 16.86 | 0 | 17.49 | 17.49 | 0 | |
| 280610 | 8.95 | 8.95 | 0 | 9.43 | 9.43 | 0 | 9.7 | 9.7 | 0 | 9.84 | 9.84 | 0 | 10.55 | 10.55 | 0 | |
| 280620 | 90.74 | 90.74 | 0 | 91.16 | 91.16 | 0 | 91.39 | 91.39 | 0 | 91.51 | 91.51 | 0 | 92.13 | 92.13 | 0 | |
| 280630 | 7.31 | 7.31 | 0 | 8.22 | 8.22 | 0 | 8.59 | 8.59 | 0 | 8.77 | 8.77 | 0 | 9.61 | 9.61 | 0 | |
| 280640 | 7.31 | 7.31 | 0 | 8.22 | 8.22 | 0 | 8.61 | 8.61 | 0 | 8.8 | 8.8 | 0 | 9.65 | 9.65 | 0 | |
| 280650 | 7.31 | 7.31 | 0 | 8.22 | 8.22 | 0 | 8.61 | 8.61 | 0 | 8.8 | 8.8 | 0 | 9.65 | 9.65 | 0 | |
| 280660 | 7.31 | 7.31 | 0 | 8.22 | 8.22 | 0 | 8.61 | 8.61 | 0 | 8.8 | 8.8 | 0 | 9.65 | 9.65 | 0 | |
| 280670 | 7.31 | 7.31 | 0 | 8.22 | 8.22 | 0 | 8.61 | 8.61 | 0 | 8.8 | 8.8 | 0 | 9.65 | 9.65 | 0 | |
| 280680 | 9.34 | 9.34 | 0 | 10.68 | 10.68 | 0 | 11.27 | 11.27 | 0 | 11.53 | 11.53 | 0 | 12.72 | 12.72 | 0 | |
| 280690 | 9.34 | 9.34 | 0 | 10.68 | 10.68 | 0 | 11.27 | 11.27 | 0 | 11.53 | 11.53 | 0 | 12.72 | 12.72 | 0 | |
| 280700 | 9.34 | 9.34 | 0 | 10.68 | 10.68 | 0 | 11.27 | 11.27 | 0 | 11.53 | 11.53 | 0 | 12.72 | 12.72 | 0 | |
| 280710 | 9.34 | 9.34 | 0 | 10.68 | 10.68 | 0 | 11.27 | 11.27 | 0 | 11.53 | 11.53 | 0 | 12.72 | 12.72 | 0 | |
| 280720 | 9.45 | 9.45 | 0 | 10.74 | 10.74 | 0 | 11.31 | 11.31 | 0 | 11.57 | 11.57 | 0 | 12.74 | 12.74 | 0 | |
| 280730 | 9.5 | 9.5 | 0 | 10.78 | 10.78 | 0 | 11.34 | 11.34 | 0 | 11.6 | 11.6 | 0 | 12.76 | 12.76 | 0 | |
| 280740 | 9.5 | 9.5 | 0 | 10.78 | 10.78 | 0 | 11.34 | 11.34 | 0 | 11.6 | 11.6 | 0 | 12.76 | 12.76 | 0 | |
| 280800 | 9.5 | 9.5 | 0 | 10.78 | 10.78 | 0 | 11.35 | 11.35 | 0 | 11.61 | 11.61 | 0 | 12.76 | 12.76 | 0 | |
| 280810 | 9.5 | 9.5 | 0 | 10.78 | 10.78 | 0 | 11.35 | 11.35 | 0 | 11.61 | 11.61 | 0 | 12.76 | 12.76 | 0 | |
| 280820 | 9.5 | 9.5 | 0 | 10.78 | 10.78 | 0 | 11.35 | 11.35 | 0 | 11.61 | 11.61 | 0 | 12.76 | 12.76 | 0 | |
| 280830 | 9.44 | 9.44 | 0 | 10.74 | 10.74 | 0 | 11.32 | 11.32 | 0 | 11.58 | 11.58 | 0 | 12.75 | 12.75 | 0 | |
| 280840 | 9.3 | 9.3 | 0 | 9.76 | 9.76 | 0 | 10.17 | 10.17 | 0 | 10.44 | 10.44 | 0 | 11.3 | 11.3 | 0 | |
| 280850 | 10.28 | 10.28 | 0 | 10.78 | 10.78 | 0 | 11.35 | 11.35 | 0 | 11.61 | 11.61 | 0 | 12.76 | 12.76 | 0 | |
| 280860 | 9.68 | 9.68 | 0 | 10.78 | 10.78 | 0 | 11.35 | 11.35 | 0 | 11.61 | 11.61 | 0 | 12.76 | 12.76 | 0 | |
| 280870 | 9.5 | 9.5 | 0 | 10.85 | 10.85 | 0 | 11.44 | 11.44 | 0 | 11.71 | 11.71 | 0 | 12.85 | 12.85 | 0 | |
| 280880 | 9.52 | 9.52 | 0 | 10.94 | 10.94 | 0 | 11.57 | 11.57 | 0 | 11.85 | 11.85 | 0 | 13.01 | 13.01 | 0 | |
| 280890 | 9.67 | 9.67 | 0 | 10.86 | 10.86 | 0 | 11.45 | 11.45 | 0 | 11.72 | 11.72 | 0 | 12.86 | 12.86 | 0 | |
| 280900 | 9.96 | 9.96 | 0 | 11.72 | 11.72 | 0 | 11.96 | 11.96 | 0 | 12.05 | 12.05 | 0 | 12.86 | 12.86 | 0 | |
| 281000 | 11.7 | 11.7 | 0 | 12.27 | 12.27 | 0 | 12.47 | 12.47 | 0 | 12.58 | 12.58 | 0 | 13.08 | 13.08 | 0 | |
| 281010 | 11.7 | 11.7 | 0 | 12.27 | 12.27 | 0 | 12.48 | 12.48 | 0 | 12.58 | 12.58 | 0 | 13.06 | 13.06 | 0 | |
| 281020 | 11.7 | 11.7 | 0 | 12.44 | 12.44 | 0 | 12.7 | 12.7 | 0 | 12.83 | 12.83 | 0 | 13.34 | 13.34 | 0 | |
| 281030 | 11.89 | 11.89 | 0 | 12.85 | 12.85 | 0 | 13.13 | 13.13 | 0 | 13.24 | 13.24 | 0 | 13.79 | 13.79 | 0 | |
| 281040 | 12.45 | 12.45 | 0 | 13.43 | 13.43 | 0 | 13.71 | 13.71 | 0 | 13.83 | 13.83 | 0 | 14.39 | 14.39 | 0 | |
| 281050 | 12.59 | 12.59 | 0 | 13.58 | 13.58 | 0 | 13.87 | 13.87 | 0 | 13.99 | 13.99 | 0 | 14.56 | 14.56 | 0 | |
| 281060 | 12.61 | 12.61 | 0 | 13.58 | 13.58 | 0 | 13.87 | 13.87 | 0 | 13.99 | 13.99 | 0 | 14.56 | 14.56 | 0 | |
| 281070 | 12.64 | 12.64 | 0 | 13.59 | 13.59 | 0 | 13.87 | 13.87 | 0 | 13.99 | 13.99 | 0 | 14.56 | 14.56 | 0 | |
| 281080 | 11.68 | 11.68 | 0 | 12.17 | 12.17 | 0 | 12.37 | 12.37 | 0 | 12.49 | 12.49 | 0 | 13.26 | 13.26 | 0 | |
| 281090 | 11.68 | 11.68 | 0 | 12.17 | 12.17 | 0 | 12.37 | 12.37 | 0 | 12.49 | 12.49 | 0 | 13.26 | 13.26 | 0 | |
| 281100 | 11.69 | 11.69 | 0 | 12.22 | 12.22 | 0 | 12.44 | 12.44 | 0 | 12.57 | 12.57 | 0 | 13.32 | 13.32 | 0 | |
| 281110 | 11.68 | 11.68 | 0 | 12.2 | 12.2 | 0 | 12.41 | 12.41 | 0 | 12.54 | 12.54 | 0 | 13.3 | 13.3 | 0 | |
| 281120 | 11.67 | 11.67 | 0 | 12.11 | 12.11 | 0 | 12.29 | 12.29 | 0 | 12.41 | 12.41 | 0 | 13.21 | 13.21 | 0 | |
| 281130 | 11.66 | 11.66 | 0 | 12.06 | 12.06 | 0 | 12.22 | 12.22 | 0 | 12.35 | 12.35 | 0 | 13.16 | 13.16 | 0 | |
| 281140 | 11.49 | 11.49 | 0 | 11.56 | 11.56 | 0 | 11.67 | 11.67 | 0 | 11.85 | 11.85 | 0 | 13.01 | 13.01 | 0 | |
| 281150 | 11.66 | 11.66 | 0 | 12.41 | 12.41 | 0 | 12.65 | 12.65 | 0 | 12.77 | 12.77 | 0 | 13.25 | 13.25 | 0 | |
| 281160 | 12.31 | 12.31 | 0 | 12.55 | 12.55 | 0 | 12.71 | 12.71 | 0 | 12.8 | 12.8 | 0 | 13.26 | 13.26 | 0 | |
| 281170 | 11.66 | 11.66 | 0 | 12.06 | 12.06 | 0 | 12.5 | 12.5 | 0 | 12.63 | 12.63 | 0 | 13.17 | 13.17 | 0 | |
| 281180 | 12.17 | 12.17 | 0 | 12.47 | 12.47 | 0 | 12.59 | 12.59 | 0 | 12.68 | 12.68 | 0 | 13.18 | 13.18 | 0 | |
| 281190 | 11.66 | 11.66 | 0 | 12.45 | 12.45 | 0 | 12.72 | 12.72 | 0 | 12.83 | 12.83 | 0 | 13.27 | 13.27 | 0 | |
| 281200 | 12.32 | 12.32 | 0 | 12.53 | 12.53 | 0 | 12.73 | 12.73 | 0 | 12.83 | 12.83 | 0 | 13.27 | 13.27 | 0 | |
| 281210 | 11.67 | 11.67 | 0 | 12.14 | 12.14 | 0 | 12.43 | 12.43 | 0 | 12.67 | 12.67 | 0 | 14.06 | 14.06 | 0 | |
| 281220 | 11.67 | 11.67 | 0 | 12.15 | 12.15 | 0 | 12.43 | 12.43 | 0 | 12.69 | 12.69 | 0 | 14.08 | 14.08 | 0 | |
| 281230 | 11.69 | 11.69 | 0 | 12.22 | 12.22 | 0 | 12.44 | 12.44 | 0 | 12.57 | 12.57 | 0 | 13.45 | 13.45 | 0 | |
| 281240 | 12.56 | 12.56 | 0 | 12.77 | 12.77 | 0 | 12.87 | 12.87 | 0 | 12.92 | 12.92 | 0 | 13.47 | 13.47 | 0 | |
| 281250 | 9.42 | 9.42 | 0 | 11.07 | 11.07 | 0 | 12.6 | 12.6 | 0 | 12.75 | 12.75 | 0 | 13.47 | 13.47 | 0 | |
| 281300 | 12.76 | 12.76 | 0 | 14.25 | 14.25 | 0 | 14.92 | 14.92 | 0 | 15.2 | 15.2 | 0 | 16.33 | 16.33 | 0 | |
| 281310 | 12.76 | 12.76 | 0 | 14.26 | 14.26 | 0 | 14.93 | 14.93 | 0 | 15.21 | 15.21 | 0 | 16.34 | 16.34 | 0 | |
| 281315 | 12.76 | 12.76 | 0 | 14.31 | 14.31 | 0 | 15.01 | 15.01 | 0 | 15.31 | 15.31 | 0 | 16.71 | 16.71 | 0 | |
| 281320 | 16.94 | 16.94 | 0 | 16.94 | 16.94 | 0 | 16.94 | 16.94 | 0 | 16.94 | 16.94 | 0 | 17.81 | 17.81 | 0 | |
| 281330 | 18.28 | 18.28 | 0 | 18.73 | 18.73 | 0 | 18.92 | 18.92 | 0 | 19 | 19 | 0 | 19.47 | 19.47 | 0 | |
| 281340 | 18.48 | 18.48 | 0 | 19.55 | 19.55 | 0 | 19.98 | 19.98 | 0 | 20.16 | 20.16 | 0 | 20.92 | 20.92 | 0 | |
| 281350 | 20 | 20 | 0 | 20.52 | 20.52 | 0 | 20.76 | 20.76 | 0 | 20.87 | 20.87 | 0 | 21.4 | 21.4 | 0 | |
| 281360 | 18.66 | 18.66 | 0 | 19.8 | 19.8 | 0 | 20.38 | 20.38 | 0 | 20.66 | 20.66 | 0 | 21.77 | 21.77 | 0 | |
| 281370 | 18.34 | 18.34 | 0 | 19.93 | 19.93 | 0 | 20.79 | 20.79 | 0 | 21.15 | 21.15 | 0 | 22.31 | 22.31 | 0 | |
| 281380 | 19.66 | 19.66 | 0 | 20.73 | 20.73 | 0 | 21.32 | 21.32 | 0 | 21.6 | 21.6 | 0 | 22.57 | 22.57 | 0 | |
| 281390 | 19.66 | 19.66 | 0 | 20.72 | 20.72 | 0 | 21.32 | 21.32 | 0 | 21.6 | 21.6 | 0 | 22.68 | 22.68 | 0 | |
| 281400 | 19.53 | 19.53 | 0 | 20.35 | 20.35 | 0 | 20.81 | 20.81 | 0 | 21.04 | 21.04 | 0 | 22.02 | 22.02 | 0 | |
| 281410 | 12.76 | 12.76 | 0 | 14.26 | 14.26 | 0 | 14.93 | 14.93 | 0 | 15.21 | 15.21 | 0 | 16.34 | 16.34 | 0 | |
| 281420 | 13.06 | 13.06 | 0 | 17.6 | 17.6 | 0 | 18.23 | 18.23 | 0 | 18.46 | 18.46 | 0 | 19.29 | 19.29 | 0 | |
| 281430 | 12.76 | 12.76 | 0 | 14.66 | 14.66 | 0 | 15.68 | 15.68 | 0 | 16.15 | 16.15 | 0 | 18.2 | 18.2 | 0 | |
| 281440 | 13.67 | 13.67 | 0 | 15.04 | 15.04 | 0 | 15.88 | 15.88 | 0 | 16.3 | 16.3 | 0 | 18.25 | 18.25 | 0 | |
| 281450 | 13.7 | 13.7 | 0 | 15.2 | 15.2 | 0 | 16.11 | 16.11 | 0 | 16.59 | 16.59 | 0 | 18.62 | 18.62 | 0 | |
| 281455 | 13.81 | 13.81 | 0 | 15.34 | 15.34 | 0 | 16.36 | 16.36 | 0 | 16.89 | 16.89 | 0 | 18.92 | 18.92 | 0 | |
| 281460 | 14.31 | 14.31 | 0 | 15.23 | 15.23 | 0 | 16.16 | 16.16 | 0 | 16.64 | 16.64 | 0 | 18.8 | 18.8 | 0 | |
| 281470 | 18.6 | 18.6 | 0 | 19 | 19 | 0 | 19.2 | 19.2 | 0 | 19.3 | 19.3 | 0 | 19.89 | 19.89 | 0 | |
| 281480 | 19.01 | 19.01 | 0 | 19.42 | 19.42 | 0 | 19.62 | 19.62 | 0 | 19.71 | 19.71 | 0 | 20.15 | 20.15 | 0 | |
| 281490 | 19.02 | 19.02 | 0 | 19.43 | 19.43 | 0 | 19.63 | 19.63 | 0 | 19.72 | 19.72 | 0 | 20.16 | 20.16 | 0 | |
| 281500 | 18.01 | 18.01 | 0 | 18.04 | 18.04 | 0 | 18.26 | 18.26 | 0 | 18.34 | 18.34 | 0 | 18.85 | 18.85 | 0 | |
| 281510 | 18.3 | 18.3 | 0 | 19.03 | 19.03 | 0 | 19.29 | 19.29 | 0 | 19.39 | 19.39 | 0 | 19.83 | 19.83 | 0 | |
| 281520 | 17.82 | 17.82 | 0 | 18.24 | 18.24 | 0 | 18.44 | 18.44 | 0 | 18.53 | 18.53 | 0 | 19.24 | 19.24 | 0 | |
| 281600 | 12.75 | 12.75 | 0 | 14.09 | 14.09 | 0 | 14.57 | 14.57 | 0 | 14.79 | 14.79 | 0 | 15.8 | 15.8 | 0 | |
| 281610 | 12.75 | 12.75 | 0 | 14.04 | 14.04 | 0 | 14.43 | 14.43 | 0 | 14.63 | 14.63 | 0 | 15.64 | 15.64 | 0 | |
| 281620 | 12.75 | 12.75 | 0 | 13.98 | 13.98 | 0 | 14.3 | 14.3 | 0 | 14.56 | 14.56 | 0 | 15.33 | 15.33 | 0 | |
| 281630 | 12.75 | 12.75 | 0 | 13.98 | 13.98 | 0 | 14.25 | 14.25 | 0 | 14.42 | 14.42 | 0 | 14.97 | 14.97 | 0 | |
| 281640 | 12.75 | 12.75 | 0 | 13.99 | 13.99 | 0 | 14.54 | 14.54 | 0 | 14.84 | 14.84 | 0 | | | | |

Summary of Corrected and Revised Stages for Bridge

| Node | 2.33YR24HR | | | 25YR24HR | | | 50YR24HR | | | 100YR24HR | | | 500YR24HR | | | Notes |
|--------|--------------------------------|---------------------|-----------------|--------------------------------|---------------------|-----------------|--------------------------------|---------------------|-----------------|--------------------------------|---------------------|-----------------|--------------------------------|---------------------|-----------------|-------|
| | Corrected Effective Stage (ft) | Proposed Stage (ft) | Difference (ft) | Corrected Effective Stage (ft) | Proposed Stage (ft) | Difference (ft) | Corrected Effective Stage (ft) | Proposed Stage (ft) | Difference (ft) | Corrected Effective Stage (ft) | Proposed Stage (ft) | Difference (ft) | Corrected Effective Stage (ft) | Proposed Stage (ft) | Difference (ft) | |
| 281690 | 12.75 | 12.75 | 0 | 14.35 | 14.35 | 0 | 15.31 | 15.31 | 0 | 15.59 | 15.59 | 0 | 16.45 | 16.45 | 0 | |
| 281700 | 15.99 | 15.99 | 0 | 17.14 | 17.14 | 0 | 17.43 | 17.43 | 0 | 17.55 | 17.55 | 0 | 18.06 | 18.06 | 0 | |
| 281710 | 17.22 | 17.22 | 0 | 17.52 | 17.52 | 0 | 17.68 | 17.68 | 0 | 17.76 | 17.76 | 0 | 18.17 | 18.17 | 0 | |
| 281720 | 12.75 | 12.75 | 0 | 14.83 | 14.83 | 0 | 15.8 | 15.8 | 0 | 16.08 | 16.08 | 0 | 16.89 | 16.89 | 0 | |
| 281800 | 15.29 | 15.29 | 0 | 16.69 | 16.69 | 0 | 17.3 | 17.3 | 0 | 17.57 | 17.57 | 0 | 18.74 | 18.74 | 0 | |
| 281810 | 15.3 | 15.3 | 0 | 16.7 | 16.7 | 0 | 17.3 | 17.3 | 0 | 17.57 | 17.57 | 0 | 18.74 | 18.74 | 0 | |
| 281820 | 15.32 | 15.32 | 0 | 16.7 | 16.7 | 0 | 17.3 | 17.3 | 0 | 17.57 | 17.57 | 0 | 18.74 | 18.74 | 0 | |
| 281830 | 15.32 | 15.32 | 0 | 16.7 | 16.7 | 0 | 17.3 | 17.3 | 0 | 17.57 | 17.57 | 0 | 18.74 | 18.74 | 0 | |
| 281840 | 15.48 | 15.48 | 0 | 16.72 | 16.72 | 0 | 17.3 | 17.3 | 0 | 17.57 | 17.57 | 0 | 18.72 | 18.72 | 0 | |
| 281850 | 15.55 | 15.55 | 0 | 16.82 | 16.82 | 0 | 17.42 | 17.42 | 0 | 17.69 | 17.69 | 0 | 18.88 | 18.88 | 0 | |
| 281860 | 15.55 | 15.55 | 0 | 16.83 | 16.83 | 0 | 17.43 | 17.43 | 0 | 17.72 | 17.72 | 0 | 18.98 | 18.98 | 0 | |
| 281870 | 15.89 | 15.89 | 0 | 17.04 | 17.04 | 0 | 17.63 | 17.63 | 0 | 17.92 | 17.92 | 0 | 19.17 | 19.17 | 0 | |
| 281880 | 17.45 | 17.45 | 0 | 18.46 | 18.46 | 0 | 19.11 | 19.11 | 0 | 19.44 | 19.44 | 0 | 21.14 | 21.14 | 0 | |
| 281890 | 17.97 | 17.97 | 0 | 18.83 | 18.83 | 0 | 19.43 | 19.43 | 0 | 19.75 | 19.75 | 0 | 21.73 | 21.73 | 0 | |
| 281900 | 21.06 | 21.06 | 0 | 21.47 | 21.47 | 0 | 21.68 | 21.68 | 0 | 21.77 | 21.77 | 0 | 22.27 | 22.27 | 0 | |
| 281910 | 21.38 | 21.38 | 0 | 21.79 | 21.79 | 0 | 22.01 | 22.01 | 0 | 22.11 | 22.11 | 0 | 22.63 | 22.63 | 0 | |
| 281915 | 22.03 | 22.03 | 0 | 22.91 | 22.91 | 0 | 23.87 | 23.87 | 0 | 24.13 | 24.13 | 0 | 25.01 | 25.01 | 0 | |
| 281920 | 23.09 | 23.09 | 0 | 24.49 | 24.49 | 0 | 25.07 | 25.07 | 0 | 25.33 | 25.33 | 0 | 26.36 | 26.36 | 0 | |
| 281930 | 23.09 | 23.09 | 0 | 24.49 | 24.49 | 0 | 25.07 | 25.07 | 0 | 25.33 | 25.33 | 0 | 26.36 | 26.36 | 0 | |
| 281940 | 23.15 | 23.15 | 0 | 24.21 | 24.21 | 0 | 24.61 | 24.61 | 0 | 24.7 | 24.7 | 0 | 25.71 | 25.71 | 0 | |
| 281950 | 23.52 | 23.52 | 0 | 24.18 | 24.18 | 0 | 24.52 | 24.52 | 0 | 24.66 | 24.66 | 0 | 25.7 | 25.7 | 0 | |
| 281960 | 23.53 | 23.53 | 0 | 24.18 | 24.18 | 0 | 24.51 | 24.51 | 0 | 24.66 | 24.66 | 0 | 25.7 | 25.7 | 0 | |
| 281970 | 23.57 | 23.57 | 0 | 24.21 | 24.21 | 0 | 24.52 | 24.52 | 0 | 24.69 | 24.69 | 0 | 25.98 | 25.98 | 0 | |
| 281980 | 23.97 | 23.97 | 0 | 24.23 | 24.23 | 0 | 24.52 | 24.52 | 0 | 24.7 | 24.7 | 0 | 25.99 | 25.99 | 0 | |
| 281990 | 24.02 | 24.02 | 0 | 24.24 | 24.24 | 0 | 24.52 | 24.52 | 0 | 24.71 | 24.71 | 0 | 26.02 | 26.02 | 0 | |
| 282000 | 24.29 | 24.29 | 0 | 25.17 | 25.17 | 0 | 25.72 | 25.72 | 0 | 25.83 | 25.83 | 0 | 26.21 | 26.21 | 0 | |
| 282010 | 24.3 | 24.3 | 0 | 25.22 | 25.22 | 0 | 25.92 | 25.92 | 0 | 26.1 | 26.1 | 0 | 26.77 | 26.77 | 0 | |
| 282020 | 24.61 | 24.61 | 0 | 25.32 | 25.32 | 0 | 25.99 | 25.99 | 0 | 26.16 | 26.16 | 0 | 26.82 | 26.82 | 0 | |
| 282100 | 15.45 | 15.45 | 0 | 16.7 | 16.7 | 0 | 17.3 | 17.3 | 0 | 17.57 | 17.57 | 0 | 18.74 | 18.74 | 0 | |
| 282110 | 15.46 | 15.46 | 0 | 16.7 | 16.7 | 0 | 17.3 | 17.3 | 0 | 17.57 | 17.57 | 0 | 18.74 | 18.74 | 0 | |
| 282120 | 16.15 | 16.15 | 0 | 16.9 | 16.9 | 0 | 17.4 | 17.4 | 0 | 17.68 | 17.68 | 0 | 18.91 | 18.91 | 0 | |
| 282130 | 16.6 | 16.6 | 0 | 17.48 | 17.48 | 0 | 17.89 | 17.89 | 0 | 18.07 | 18.07 | 0 | 18.84 | 18.84 | 0 | |
| 282140 | 16.7 | 16.7 | 0 | 17.67 | 17.67 | 0 | 18.15 | 18.15 | 0 | 18.37 | 18.37 | 0 | 19.2 | 19.2 | 0 | |
| 282150 | 17.19 | 17.19 | 0 | 18.39 | 18.39 | 0 | 18.88 | 18.88 | 0 | 19.09 | 19.09 | 0 | 19.8 | 19.8 | 0 | |
| 282160 | 17.19 | 17.19 | 0 | 18.4 | 18.4 | 0 | 18.89 | 18.89 | 0 | 19.1 | 19.1 | 0 | 19.82 | 19.82 | 0 | |
| 282170 | 15.81 | 15.81 | 0 | 16.72 | 16.72 | 0 | 17.3 | 17.3 | 0 | 17.57 | 17.57 | 0 | 18.72 | 18.72 | 0 | |
| 282180 | 15.24 | 15.24 | 0 | 15.45 | 15.45 | 0 | 15.58 | 15.58 | 0 | 15.67 | 15.67 | 0 | 16.13 | 16.13 | 0 | |
| 282190 | 17.46 | 17.46 | 0 | 17.92 | 17.92 | 0 | 18.07 | 18.07 | 0 | 18.13 | 18.13 | 0 | 19.17 | 19.17 | 0 | |
| 282200 | 18.87 | 18.87 | 0 | 19.48 | 19.48 | 0 | 19.67 | 19.67 | 0 | 19.75 | 19.75 | 0 | 20.02 | 20.02 | 0 | |
| 282210 | 15.85 | 15.85 | 0 | 16.83 | 16.83 | 0 | 17.44 | 17.44 | 0 | 17.72 | 17.72 | 0 | 18.98 | 18.98 | 0 | |
| 282220 | 18.13 | 18.13 | 0 | 18.5 | 18.5 | 0 | 18.71 | 18.71 | 0 | 18.83 | 18.83 | 0 | 19.77 | 19.77 | 0 | |
| 282230 | 15.9 | 15.9 | 0 | 15.9 | 15.9 | 0 | 15.9 | 15.9 | 0 | 15.9 | 15.9 | 0 | 15.9 | 15.9 | 0 | |
| 282240 | 17.35 | 17.35 | 0 | 17.62 | 17.62 | 0 | 17.72 | 17.72 | 0 | 17.92 | 17.92 | 0 | 19.17 | 19.17 | 0 | |
| 282245 | 19.41 | 19.41 | 0 | 19.98 | 19.98 | 0 | 20.25 | 20.25 | 0 | 20.38 | 20.38 | 0 | 20.97 | 20.97 | 0 | |
| 282250 | 19.39 | 19.39 | 0 | 19.98 | 19.98 | 0 | 20.25 | 20.25 | 0 | 20.38 | 20.38 | 0 | 20.97 | 20.97 | 0 | |
| 282260 | 20.33 | 20.33 | 0 | 20.65 | 20.65 | 0 | 20.79 | 20.79 | 0 | 20.84 | 20.84 | 0 | 21.14 | 21.14 | 0 | |
| 282270 | 20.34 | 20.34 | 0 | 20.7 | 20.7 | 0 | 20.87 | 20.87 | 0 | 20.95 | 20.95 | 0 | 21.32 | 21.32 | 0 | |
| 282280 | 18.54 | 18.54 | 0 | 19.85 | 19.85 | 0 | 20.45 | 20.45 | 0 | 20.73 | 20.73 | 0 | 21.77 | 21.77 | 0 | |
| 282290 | 20.89 | 20.89 | 0 | 21.16 | 21.16 | 0 | 21.3 | 21.3 | 0 | 21.36 | 21.36 | 0 | 21.68 | 21.68 | 0 | |
| 282300 | 17.69 | 17.69 | 0 | 18.08 | 18.08 | 0 | 18.23 | 18.23 | 0 | 18.3 | 18.3 | 0 | 19.36 | 19.36 | 0 | |
| 282310 | 19.37 | 19.37 | 0 | 19.92 | 19.92 | 0 | 20.09 | 20.09 | 0 | 20.18 | 20.18 | 0 | 20.59 | 20.59 | 0 | |
| 282320 | 15.89 | 15.89 | 0 | 18.01 | 18.01 | 0 | 18.67 | 18.67 | 0 | 18.92 | 18.92 | 0 | 19.82 | 19.82 | 0 | |
| 282330 | 18.23 | 18.23 | 0 | 18.69 | 18.69 | 0 | 19 | 19 | 0 | 19.17 | 19.17 | 0 | 19.88 | 19.88 | 0 | |
| 282340 | 18.42 | 18.42 | 0 | 19.59 | 19.59 | 0 | 20.16 | 20.16 | 0 | 20.42 | 20.42 | 0 | 21.43 | 21.43 | 0 | |
| 282350 | 19.18 | 19.18 | 0 | 20.25 | 20.25 | 0 | 20.71 | 20.71 | 0 | 20.92 | 20.92 | 0 | 21.57 | 21.57 | 0 | |
| 282360 | 21.15 | 21.15 | 0 | 21.65 | 21.65 | 0 | 21.86 | 21.86 | 0 | 21.95 | 21.95 | 0 | 22.36 | 22.36 | 0 | |
| 282400 | 21.53 | 21.53 | 0 | 21.73 | 21.73 | 0 | 21.85 | 21.85 | 0 | 22.05 | 22.05 | 0 | 25.21 | 25.21 | 0 | |
| 282420 | 24.07 | 24.07 | 0 | 25.16 | 25.16 | 0 | 25.64 | 25.64 | 0 | 25.87 | 25.87 | 0 | 26.88 | 26.88 | 0 | |
| 282430 | 22.69 | 22.69 | 0 | 24.29 | 24.29 | 0 | 25.07 | 25.07 | 0 | 25.33 | 25.33 | 0 | 26.36 | 26.36 | 0 | |
| 282440 | 22.29 | 22.29 | 0 | 22.98 | 22.98 | 0 | 24.12 | 24.12 | 0 | 24.71 | 24.71 | 0 | 26.05 | 26.05 | 0 | |
| 282500 | 24.07 | 24.07 | 0 | 25.16 | 25.16 | 0 | 25.64 | 25.64 | 0 | 25.87 | 25.87 | 0 | 26.88 | 26.88 | 0 | |
| 282510 | 24.09 | 24.09 | 0 | 25.2 | 25.2 | 0 | 25.76 | 25.76 | 0 | 26.02 | 26.02 | 0 | 27.05 | 27.05 | 0 | |
| 282520 | 25.53 | 25.53 | 0 | 25.7 | 25.7 | 0 | 26.04 | 26.04 | 0 | 26.26 | 26.26 | 0 | 27.18 | 27.18 | 0 | |
| 282530 | 26.01 | 26.01 | 0 | 28.71 | 28.71 | 0 | 30.27 | 30.27 | 0 | 30.36 | 30.36 | 0 | 30.66 | 30.66 | 0 | |
| 282540 | 27.69 | 27.69 | 0 | 28.92 | 28.92 | 0 | 30.36 | 30.36 | 0 | 30.52 | 30.52 | 0 | 31.08 | 31.08 | 0 | |
| 282550 | 25.45 | 25.45 | 0 | 26.04 | 26.04 | 0 | 26.44 | 26.44 | 0 | 26.62 | 26.62 | 0 | 27.52 | 27.52 | 0 | |
| 282560 | 25.95 | 25.95 | 0 | 27.77 | 27.77 | 0 | 28.29 | 28.29 | 0 | 28.47 | 28.47 | 0 | 29.01 | 29.01 | 0 | |
| 282570 | 28.25 | 28.25 | 0 | 28.71 | 28.71 | 0 | 28.85 | 28.85 | 0 | 28.9 | 28.9 | 0 | 29.15 | 29.15 | 0 | |
| 282580 | 27.37 | 27.37 | 0 | 27.56 | 27.56 | 0 | 27.54 | 27.54 | 0 | 27.53 | 27.53 | 0 | 27.86 | 27.86 | 0 | |
| 282590 | 28.57 | 28.57 | 0 | 30.4 | 30.4 | 0 | 30.75 | 30.75 | 0 | 30.93 | 30.93 | 0 | 31.53 | 31.53 | 0 | |
| 282600 | 24.08 | 24.08 | 0 | 25.17 | 25.17 | 0 | 25.65 | 25.65 | 0 | 25.88 | 25.88 | 0 | 26.89 | 26.89 | 0 | |
| 282610 | 24.43 | 24.43 | 0 | 26.31 | 26.31 | 0 | 26.49 | 26.49 | 0 | 26.57 | 26.57 | 0 | 26.89 | 26.89 | 0 | |
| 282620 | 24.09 | 24.09 | 0 | 25.43 | 25.43 | 0 | 25.97 | 25.97 | 0 | 26.2 | 26.2 | 0 | 27.18 | 27.18 | 0 | |
| 282700 | 22.94 | 22.94 | 0 | 23.58 | 23.58 | 0 | 23.84 | 23.84 | 0 | 23.95 | 23.95 | 0 | 24.4 | 24.4 | 0 | |
| 282710 | 22.85 | 22.85 | 0 | 23.53 | 23.53 | 0 | 23.82 | 23.82 | 0 | 23.94 | 23.94 | 0 | 24.4 | 24.4 | 0 | |
| 282720 | 22.61 | 22.61 | 0 | 22.78 | 22.78 | 0 | 22.96 | 22.96 | 0 | 23.08 | 23.08 | 0 | 24.35 | 24.35 | 0 | |
| 282730 | 22.34 | 22.34 | 0 | 22.53 | 22.53 | 0 | 22.85 | 22.85 | 0 | 23.04 | 23.04 | 0 | 24.34 | 24.34 | 0 | |
| 282740 | 22.29 | 22.29 | 0 | 22.4 | 22.4 | 0 | 22.85 | 22.85 | 0 | 23.04 | 23.04 | 0 | 24.32 | 24.32 | 0 | |
| 282750 | 21.97 | 21.97 | 0 | 22.36 | 22.36 | 0 | 22.85 | 22.85 | 0 | 23.04 | 23.04 | 0 | 24.32 | 24.32 | 0 | |
| 282760 | 21.8 | 21.8 | 0 | 22.14 | 22.14 | 0 | 22.31 | 22.31 | 0 | 22.73 | 22.73 | 0 | 24.34 | 24.34 | 0 | |
| 282770 | 23.43 | 23.43 | 0 | 24.18 | 24.18 | 0 | 24.51 | 24.51 | 0 | 24.66 | 24.66 | 0 | 25.7 | 25.7 | 0 | |
| 282780 | 22.73 | 22.73 | 0 | 24.24 | 24.24 | 0 | 24.52 | 24.52 | 0 | 24.71 | 24.71 | 0 | 26.02 | 26.02 | 0 | |
| 282800 | 15.28 | 15.28 | 0 | 16.7 | 16.7 | 0 | 17.32 | 17.32 | 0 | 17.6 | 17.6 | 0 | 18.82 | 18.82 | 0 | |
| | | | | | | | | | | | | | | | | |

Summary of Corrected and Revised Stages for Bridge

| Node | 2.33YR24HR | | | 25YR24HR | | | 50YR24HR | | | 100YR24HR | | | 500YR24HR | | | Notes |
|--------|--------------------------------|---------------------|-----------------|--------------------------------|---------------------|-----------------|--------------------------------|---------------------|-----------------|--------------------------------|---------------------|-----------------|--------------------------------|---------------------|-----------------|-------|
| | Corrected Effective Stage (ft) | Proposed Stage (ft) | Difference (ft) | Corrected Effective Stage (ft) | Proposed Stage (ft) | Difference (ft) | Corrected Effective Stage (ft) | Proposed Stage (ft) | Difference (ft) | Corrected Effective Stage (ft) | Proposed Stage (ft) | Difference (ft) | Corrected Effective Stage (ft) | Proposed Stage (ft) | Difference (ft) | |
| 282860 | 19.31 | 19.31 | 0 | 19.69 | 19.69 | 0 | 19.98 | 19.98 | 0 | 20.11 | 20.11 | 0 | 21.52 | 21.52 | 0 | |
| 282870 | 20.45 | 20.45 | 0 | 21 | 21 | 0 | 21.27 | 21.27 | 0 | 21.4 | 21.4 | 0 | 21.9 | 21.9 | 0 | |
| 282880 | 20.45 | 20.45 | 0 | 21.03 | 21.03 | 0 | 21.35 | 21.35 | 0 | 21.5 | 21.5 | 0 | 23.22 | 23.22 | 0 | |
| 282890 | 21.87 | 21.87 | 0 | 22.49 | 22.49 | 0 | 22.82 | 22.82 | 0 | 22.99 | 22.99 | 0 | 23.62 | 23.62 | 0 | |
| 282900 | 18.92 | 18.92 | 0 | 19.47 | 19.47 | 0 | 19.76 | 19.76 | 0 | 19.9 | 19.9 | 0 | 20.56 | 20.56 | 0 | |
| 282910 | 19.3 | 19.3 | 0 | 19.58 | 19.58 | 0 | 19.79 | 19.79 | 0 | 19.9 | 19.9 | 0 | 20.46 | 20.46 | 0 | |
| 282920 | 19.99 | 19.99 | 0 | 20.4 | 20.4 | 0 | 20.58 | 20.58 | 0 | 20.66 | 20.66 | 0 | 21.03 | 21.03 | 0 | |
| 282930 | 20.8 | 20.8 | 0 | 21.23 | 21.23 | 0 | 21.43 | 21.43 | 0 | 21.53 | 21.53 | 0 | 22.02 | 22.02 | 0 | |
| 282940 | 18.61 | 18.61 | 0 | 18.68 | 18.68 | 0 | 19.13 | 19.13 | 0 | 19.4 | 19.4 | 0 | 20.68 | 20.68 | 0 | |
| 282950 | 19.65 | 19.65 | 0 | 20.42 | 20.42 | 0 | 20.84 | 20.84 | 0 | 21 | 21 | 0 | 21.34 | 21.34 | 0 | |
| 282960 | 17.34 | 17.34 | 0 | 18.64 | 18.64 | 0 | 19.24 | 19.24 | 0 | 19.51 | 19.51 | 0 | 20.65 | 20.65 | 0 | |
| 282970 | 18.38 | 18.38 | 0 | 19.59 | 19.59 | 0 | 20 | 20 | 0 | 20.12 | 20.12 | 0 | 20.67 | 20.67 | 0 | |
| 282980 | 18.53 | 18.53 | 0 | 19.81 | 19.81 | 0 | 20.42 | 20.42 | 0 | 20.67 | 20.67 | 0 | 21.66 | 21.66 | 0 | |
| 282990 | 18.53 | 18.53 | 0 | 19.81 | 19.81 | 0 | 20.43 | 20.43 | 0 | 20.68 | 20.68 | 0 | 21.69 | 21.69 | 0 | |
| 283000 | 17.39 | 17.39 | 0 | 18.55 | 18.55 | 0 | 19.17 | 19.17 | 0 | 19.46 | 19.46 | 0 | 20.63 | 20.63 | 0 | |
| 283010 | 17.79 | 17.79 | 0 | 18.7 | 18.7 | 0 | 19.17 | 19.17 | 0 | 19.46 | 19.46 | 0 | 20.63 | 20.63 | 0 | |
| 283020 | 18.05 | 18.05 | 0 | 19.22 | 19.22 | 0 | 19.97 | 19.97 | 0 | 20.31 | 20.31 | 0 | 21.68 | 21.68 | 0 | |
| 283030 | 18.39 | 18.39 | 0 | 19.56 | 19.56 | 0 | 20.17 | 20.17 | 0 | 20.43 | 20.43 | 0 | 21.68 | 21.68 | 0 | |
| 283100 | 19.43 | 19.43 | 0 | 20.19 | 20.19 | 0 | 20.38 | 20.38 | 0 | 20.68 | 20.68 | 0 | 21.95 | 21.95 | 0 | |
| 283110 | 20.59 | 20.59 | 0 | 21.21 | 21.21 | 0 | 21.49 | 21.49 | 0 | 21.61 | 21.61 | 0 | 22.18 | 22.18 | 0 | |
| 283120 | 22.2 | 22.2 | 0 | 22.63 | 22.63 | 0 | 22.85 | 22.85 | 0 | 22.96 | 22.96 | 0 | 23.42 | 23.42 | 0 | |
| 283130 | 21.43 | 21.43 | 0 | 21.84 | 21.84 | 0 | 22.03 | 22.03 | 0 | 22.11 | 22.11 | 0 | 22.42 | 22.42 | 0 | |
| 283200 | 18.59 | 18.59 | 0 | 20.07 | 20.07 | 0 | 20.48 | 20.48 | 0 | 20.73 | 20.73 | 0 | 21.95 | 21.95 | 0 | |
| 283210 | 18.75 | 18.75 | 0 | 20.07 | 20.07 | 0 | 20.48 | 20.48 | 0 | 20.73 | 20.73 | 0 | 21.95 | 21.95 | 0 | |
| 283220 | 19.25 | 19.25 | 0 | 20.2 | 20.2 | 0 | 20.68 | 20.68 | 0 | 20.97 | 20.97 | 0 | 22.19 | 22.19 | 0 | |
| 283230 | 19.77 | 19.77 | 0 | 20.65 | 20.65 | 0 | 21.31 | 21.31 | 0 | 21.58 | 21.58 | 0 | 22.9 | 22.9 | 0 | |
| 283240 | 19.81 | 19.81 | 0 | 20.65 | 20.65 | 0 | 21.31 | 21.31 | 0 | 21.59 | 21.59 | 0 | 22.9 | 22.9 | 0 | |
| 283250 | 20.85 | 20.85 | 0 | 21.05 | 21.05 | 0 | 21.4 | 21.4 | 0 | 21.59 | 21.59 | 0 | 22.9 | 22.9 | 0 | |
| 283260 | 21.37 | 21.37 | 0 | 21.84 | 21.84 | 0 | 22.01 | 22.01 | 0 | 22.06 | 22.06 | 0 | 22.27 | 22.27 | 0 | |
| 283300 | 19.07 | 19.07 | 0 | 20.64 | 20.64 | 0 | 21.22 | 21.22 | 0 | 21.49 | 21.49 | 0 | 22.65 | 22.65 | 0 | |
| 283310 | 19.51 | 19.51 | 0 | 21.18 | 21.18 | 0 | 21.88 | 21.88 | 0 | 22.16 | 22.16 | 0 | 23.22 | 23.22 | 0 | |
| 283320 | 21.2 | 21.2 | 0 | 22.15 | 22.15 | 0 | 22.56 | 22.56 | 0 | 22.73 | 22.73 | 0 | 23.46 | 23.46 | 0 | |
| 283330 | 21.22 | 21.22 | 0 | 22.27 | 22.27 | 0 | 22.75 | 22.75 | 0 | 22.96 | 22.96 | 0 | 23.94 | 23.94 | 0 | |
| 283340 | 21.47 | 21.47 | 0 | 23.54 | 23.54 | 0 | 24.69 | 24.69 | 0 | 25.11 | 25.11 | 0 | 26.62 | 26.62 | 0 | |
| 283350 | 25.77 | 25.77 | 0 | 26.38 | 26.38 | 0 | 26.63 | 26.63 | 0 | 26.76 | 26.76 | 0 | 27.46 | 27.46 | 0 | |
| 283360 | 28.49 | 28.49 | 0 | 29.56 | 29.56 | 0 | 29.77 | 29.77 | 0 | 29.85 | 29.85 | 0 | 30.23 | 30.23 | 0 | |
| 283370 | 31.66 | 31.66 | 0 | 36.46 | 36.46 | 0 | 37.79 | 37.79 | 0 | 38.04 | 38.04 | 0 | 39.7 | 39.7 | 0 | |
| 283380 | 35.83 | 35.83 | 0 | 36.65 | 36.65 | 0 | 37.93 | 37.93 | 0 | 38.23 | 38.23 | 0 | 40.41 | 40.41 | 0 | |
| 283390 | 36.86 | 36.86 | 0 | 38.45 | 38.45 | 0 | 39.3 | 39.3 | 0 | 39.61 | 39.61 | 0 | 40.45 | 40.45 | 0 | |
| 283400 | 21.83 | 21.83 | 0 | 23.19 | 23.19 | 0 | 23.55 | 23.55 | 0 | 23.71 | 23.71 | 0 | 24.33 | 24.33 | 0 | |
| 283410 | 22.39 | 22.39 | 0 | 23.35 | 23.35 | 0 | 23.66 | 23.66 | 0 | 23.79 | 23.79 | 0 | 24.37 | 24.37 | 0 | |
| 283420 | 21.22 | 21.22 | 0 | 22.27 | 22.27 | 0 | 22.75 | 22.75 | 0 | 22.97 | 22.97 | 0 | 23.94 | 23.94 | 0 | |
| 283430 | 21.22 | 21.22 | 0 | 22.27 | 22.27 | 0 | 22.75 | 22.75 | 0 | 22.97 | 22.97 | 0 | 23.94 | 23.94 | 0 | |
| 283440 | 21.22 | 21.22 | 0 | 22.27 | 22.27 | 0 | 22.63 | 22.63 | 0 | 22.73 | 22.73 | 0 | 23.02 | 23.02 | 0 | |
| 283450 | 21.22 | 21.22 | 0 | 22.27 | 22.27 | 0 | 22.62 | 22.62 | 0 | 22.72 | 22.72 | 0 | 23 | 23 | 0 | |
| 283460 | 21.22 | 21.22 | 0 | 22.27 | 22.27 | 0 | 22.75 | 22.75 | 0 | 22.97 | 22.97 | 0 | 23.94 | 23.94 | 0 | |
| 283470 | 21.25 | 21.25 | 0 | 22.32 | 22.32 | 0 | 22.75 | 22.75 | 0 | 22.97 | 22.97 | 0 | 23.94 | 23.94 | 0 | |
| 283480 | 21.22 | 21.22 | 0 | 22.27 | 22.27 | 0 | 22.75 | 22.75 | 0 | 22.96 | 22.96 | 0 | 23.94 | 23.94 | 0 | |
| 283490 | 21.22 | 21.22 | 0 | 22.27 | 22.27 | 0 | 22.75 | 22.75 | 0 | 22.96 | 22.96 | 0 | 23.94 | 23.94 | 0 | |
| 283500 | 21.23 | 21.23 | 0 | 22.29 | 22.29 | 0 | 22.77 | 22.77 | 0 | 22.97 | 22.97 | 0 | 23.96 | 23.96 | 0 | |
| 283510 | 21.23 | 21.23 | 0 | 22.29 | 22.29 | 0 | 22.77 | 22.77 | 0 | 22.97 | 22.97 | 0 | 23.96 | 23.96 | 0 | |
| 283520 | 21.25 | 21.25 | 0 | 22.32 | 22.32 | 0 | 22.83 | 22.83 | 0 | 23.03 | 23.03 | 0 | 24.3 | 24.3 | 0 | |
| 283530 | 21.61 | 21.61 | 0 | 22.34 | 22.34 | 0 | 22.84 | 22.84 | 0 | 23.03 | 23.03 | 0 | 24.3 | 24.3 | 0 | |
| 283540 | 22.63 | 22.63 | 0 | 23.07 | 23.07 | 0 | 23.33 | 23.33 | 0 | 23.45 | 23.45 | 0 | 23.98 | 23.98 | 0 | |
| 283550 | 21.22 | 21.22 | 0 | 22.27 | 22.27 | 0 | 22.75 | 22.75 | 0 | 22.97 | 22.97 | 0 | 23.94 | 23.94 | 0 | |
| 283560 | 19.08 | 19.08 | 0 | 20.67 | 20.67 | 0 | 21.27 | 21.27 | 0 | 21.55 | 21.55 | 0 | 22.72 | 22.72 | 0 | |
| 283600 | 22.44 | 22.44 | 0 | 23.41 | 23.41 | 0 | 23.79 | 23.79 | 0 | 23.94 | 23.94 | 0 | 24.57 | 24.57 | 0 | |
| 283610 | 24.97 | 24.97 | 0 | 25.31 | 25.31 | 0 | 25.48 | 25.48 | 0 | 25.55 | 25.55 | 0 | 25.87 | 25.87 | 0 | |
| 283620 | 24.98 | 24.98 | 0 | 25.45 | 25.45 | 0 | 25.6 | 25.6 | 0 | 25.67 | 25.67 | 0 | 25.97 | 25.97 | 0 | |
| 283630 | 25.02 | 25.02 | 0 | 25.51 | 25.51 | 0 | 25.65 | 25.65 | 0 | 25.72 | 25.72 | 0 | 25.99 | 25.99 | 0 | |
| 283640 | 25.14 | 25.14 | 0 | 25.72 | 25.72 | 0 | 25.88 | 25.88 | 0 | 25.94 | 25.94 | 0 | 26.21 | 26.21 | 0 | |
| 283650 | 23.86 | 23.86 | 0 | 24.04 | 24.04 | 0 | 24.12 | 24.12 | 0 | 24.16 | 24.16 | 0 | 24.58 | 24.58 | 0 | |
| 283660 | 24.68 | 24.68 | 0 | 25.43 | 25.43 | 0 | 25.71 | 25.71 | 0 | 25.83 | 25.83 | 0 | 26.33 | 26.33 | 0 | |
| 283670 | 23.03 | 23.03 | 0 | 23.6 | 23.6 | 0 | 23.75 | 23.75 | 0 | 23.89 | 23.89 | 0 | 24.58 | 24.58 | 0 | |
| 283680 | 23.22 | 23.22 | 0 | 23.86 | 23.86 | 0 | 24.13 | 24.13 | 0 | 24.23 | 24.23 | 0 | 24.69 | 24.69 | 0 | |
| 283700 | 23.05 | 23.05 | 0 | 25.87 | 25.87 | 0 | 26.57 | 26.57 | 0 | 26.88 | 26.88 | 0 | 28.24 | 28.24 | 0 | |
| 283710 | 24.85 | 24.85 | 0 | 25.91 | 25.91 | 0 | 26.59 | 26.59 | 0 | 26.9 | 26.9 | 0 | 28.25 | 28.25 | 0 | |
| 283720 | 27.55 | 27.55 | 0 | 28.76 | 28.76 | 0 | 29.36 | 29.36 | 0 | 29.6 | 29.6 | 0 | 30.61 | 30.61 | 0 | |
| 283730 | 33.9 | 33.9 | 0 | 34.49 | 34.49 | 0 | 34.8 | 34.8 | 0 | 34.96 | 34.96 | 0 | 35.63 | 35.63 | 0 | |
| 283740 | 24.42 | 24.42 | 0 | 26.77 | 26.77 | 0 | 27.44 | 27.44 | 0 | 27.74 | 27.74 | 0 | 29.08 | 29.08 | 0 | |
| 283750 | 26.1 | 26.1 | 0 | 26.88 | 26.88 | 0 | 27.47 | 27.47 | 0 | 27.75 | 27.75 | 0 | 29.08 | 29.08 | 0 | |
| 283760 | 26.12 | 26.12 | 0 | 26.9 | 26.9 | 0 | 27.5 | 27.5 | 0 | 27.79 | 27.79 | 0 | 29.08 | 29.08 | 0 | |
| 283770 | 26.4 | 26.4 | 0 | 27.03 | 27.03 | 0 | 27.5 | 27.5 | 0 | 27.79 | 27.79 | 0 | 29.08 | 29.08 | 0 | |
| 283780 | 24.84 | 24.84 | 0 | 25.75 | 25.75 | 0 | 26.3 | 26.3 | 0 | 26.55 | 26.55 | 0 | 27.52 | 27.52 | 0 | |
| 283790 | 24.66 | 24.66 | 0 | 25.53 | 25.53 | 0 | 26.22 | 26.22 | 0 | 26.48 | 26.48 | 0 | 27.5 | 27.5 | 0 | |
| 283800 | 25.8 | 25.8 | 0 | 26.69 | 26.69 | 0 | 27.27 | 27.27 | 0 | 27.52 | 27.52 | 0 | 28.72 | 28.72 | 0 | |
| 283810 | 27.62 | 27.62 | 0 | 28.03 | 28.03 | 0 | 28.18 | 28.18 | 0 | 28.28 | 28.28 | 0 | 28.99 | 28.99 | 0 | |
| 283820 | 34.28 | 34.28 | 0 | 35.11 | 35.11 | 0 | 35.51 | 35.51 | 0 | 35.68 | 35.68 | 0 | 36.21 | 36.21 | 0 | |
| 283830 | 27.04 | 27.04 | 0 | 27.22 | 27.22 | 0 | 27.31 | 27.31 | 0 | 27.35 | 27.35 | 0 | 27.55 | 27.55 | 0 | |
| 283840 | 27.36 | 27.36 | 0 | 27.7 | 27.7 | 0 | 27.83 | 27.83 | 0 | 27.9 | 27.9 | 0 | 28.23 | 28.23 | 0 | |
| 283850 | 34.43 | 34.43 | 0 | 36.56 | 36.56 | 0 | 37.83 | 37.83 | 0 | 38.03 | 38.03 | 0 | 38.4 | 38.4 | 0 | |
| 283860 | 34.82 | 34.82 | 0 | 36.78 | 36.78 | 0 | 37.83 | 37.83 | 0 | 38.03 | 38.03 | 0 | 38.37 | 38.37 | 0 | |
| 283900 | 21.72 | 21.72 | 0 | 22.65 | 22.65 | 0 | 22.96 | 22.96 | 0 | 23.05 | 23.05 | 0 | 23.55 | 23.55 | 0 | |

Summary of Corrected and Revised Stages for Bridge

| Node | 2.33YR24HR | | | 25YR24HR | | | 50YR24HR | | | 100YR24HR | | | 500YR24HR | | | Notes |
|--------|--------------------------------|---------------------|-----------------|--------------------------------|---------------------|-----------------|--------------------------------|---------------------|-----------------|--------------------------------|---------------------|-----------------|--------------------------------|---------------------|-----------------|------------|
| | Corrected Effective Stage (ft) | Proposed Stage (ft) | Difference (ft) | Corrected Effective Stage (ft) | Proposed Stage (ft) | Difference (ft) | Corrected Effective Stage (ft) | Proposed Stage (ft) | Difference (ft) | Corrected Effective Stage (ft) | Proposed Stage (ft) | Difference (ft) | Corrected Effective Stage (ft) | Proposed Stage (ft) | Difference (ft) | |
| 283960 | 25.25 | 25.25 | 0 | 26.23 | 26.23 | 0 | 26.59 | 26.59 | 0 | 26.73 | 26.73 | 0 | 27.26 | 27.26 | 0 | |
| 283970 | 25.72 | 25.72 | 0 | 26.5 | 26.5 | 0 | 26.78 | 26.78 | 0 | 26.89 | 26.89 | 0 | 27.34 | 27.34 | 0 | |
| 283990 | 27.32 | 27.32 | 0 | 28.16 | 28.16 | 0 | 28.54 | 28.54 | 0 | 28.65 | 28.65 | 0 | 29.06 | 29.06 | 0 | |
| 284000 | 22.5 | 22.5 | 0 | 23.78 | 23.78 | 0 | 24.05 | 24.05 | 0 | 24.12 | 24.12 | 0 | 24.57 | 24.57 | 0 | |
| 284010 | 22.52 | 22.52 | 0 | 25.17 | 25.17 | 0 | 26.27 | 26.27 | 0 | 26.58 | 26.58 | 0 | 27.99 | 27.99 | 0 | |
| 284020 | 22.52 | 22.52 | 0 | 26.03 | 26.03 | 0 | 27.54 | 27.54 | 0 | 27.75 | 27.75 | 0 | 28.59 | 28.59 | 0 | |
| 284030 | 27.13 | 27.13 | 0 | 27.43 | 27.43 | 0 | 27.72 | 27.72 | 0 | 27.92 | 27.92 | 0 | 28.77 | 28.77 | 0 | |
| 284040 | 27.13 | 27.13 | 0 | 27.57 | 27.57 | 0 | 28.08 | 28.08 | 0 | 28.43 | 28.43 | 0 | 29.93 | 29.93 | 0 | |
| 284050 | 31.67 | 31.67 | 0 | 32.03 | 32.03 | 0 | 32.18 | 32.18 | 0 | 32.25 | 32.25 | 0 | 32.46 | 32.46 | 0 | |
| 284060 | 32.51 | 32.51 | 0 | 33.01 | 33.01 | 0 | 33.24 | 33.24 | 0 | 33.32 | 33.32 | 0 | 33.54 | 33.54 | 0 | |
| 284070 | 32.53 | 32.53 | 0 | 33.28 | 33.28 | 0 | 33.82 | 33.82 | 0 | 34.13 | 34.13 | 0 | 35.16 | 35.16 | 0 | |
| 284080 | 32.68 | 32.68 | 0 | 34.34 | 34.34 | 0 | 34.8 | 34.8 | 0 | 34.87 | 34.87 | 0 | 35.3 | 35.3 | 0 | |
| 284090 | 25.59 | 25.59 | 0 | 26.13 | 26.13 | 0 | 26.35 | 26.35 | 0 | 26.6 | 26.6 | 0 | 27.99 | 27.99 | 0 | |
| 284100 | 25.59 | 25.59 | 0 | 26.13 | 26.13 | 0 | 26.35 | 26.35 | 0 | 26.6 | 26.6 | 0 | 27.99 | 27.99 | 0 | |
| 284110 | 25.59 | 25.59 | 0 | 26.13 | 26.13 | 0 | 26.35 | 26.35 | 0 | 26.6 | 26.6 | 0 | 27.99 | 27.99 | 0 | |
| 284120 | 26.68 | 26.68 | 0 | 26.91 | 26.91 | 0 | 27.01 | 27.01 | 0 | 27.06 | 27.06 | 0 | 27.99 | 27.99 | 0 | |
| 284210 | 10.3 | 10.3 | 0 | 10.68 | 10.68 | 0 | 10.9 | 10.9 | 0 | 11 | 11 | 0 | 11.55 | 11.55 | 0 | |
| 284220 | 14.16 | 14.16 | 0 | 16.19 | 16.19 | 0 | 17.14 | 17.14 | 0 | 17.6 | 17.6 | 0 | 19.88 | 19.88 | 0 | |
| 284230 | 15.07 | 15.07 | 0 | 16.9 | 16.9 | 0 | 17.83 | 17.83 | 0 | 18.29 | 18.29 | 0 | 20.66 | 20.66 | 0 | |
| 284240 | 5.03 | 5.03 | 0 | 6.62 | 6.62 | 0 | 7.46 | 7.46 | 0 | 7.86 | 7.86 | 0 | 9.83 | 9.83 | 0 | |
| 230202 | 4.67 | 4.95 | 0.28 | 5.23 | 5.42 | 0.19 | 5.85 | 5.63 | -0.22 | 6.11 | 5.7 | -0.41 | 7.15 | 6.78 | -0.37 | Dummy Node |
| 300010 | | 4.72 | | | 5.75 | | | 6.13 | | | 6.3 | | | 7.01 | 7.01 | |
| 300012 | | 4.72 | | | 5.75 | | | 6.13 | | | 6.3 | | | 7 | 7 | |
| 300014 | | 4.72 | | | 5.75 | | | 6.13 | | | 6.3 | | | 7 | 7 | |
| 300020 | | 5.82 | | | 6.96 | | | 7.39 | | | 7.58 | | | 8.39 | 8.39 | |
| 300022 | | 6.54 | | | 7.12 | | | 7.42 | | | 7.62 | | | 8.42 | 8.42 | |
| 300024 | | 5.82 | | | 6.96 | | | 7.39 | | | 7.58 | | | 8.39 | 8.39 | |
| 300026 | | 5.7 | | | 6.95 | | | 7.38 | | | 7.57 | | | 8.38 | 8.38 | |
| 300028 | | 5.7 | | | 6.95 | | | 7.38 | | | 7.57 | | | 8.38 | 8.38 | |
| 300030 | | 4.18 | | | 5.21 | | | 5.68 | | | 5.89 | | | 6.73 | 6.73 | |
| 300032 | | 4.17 | | | 5.19 | | | 5.66 | | | 5.86 | | | 6.71 | 6.71 | |
| 300034 | | 3.99 | | | 5.18 | | | 5.64 | | | 5.85 | | | 6.69 | 6.69 | |

DRAFT

Summary of Corrected and Revised Stages for Bridge Culvert

| Node | 2.33YR24HR | | | 25YR24HR | | | 50YR24HR | | | 100YR24HR | | | 500YR24HR | | | Notes |
|--------|--------------------------------|---------------------|-----------------|--------------------------------|---------------------|-----------------|--------------------------------|---------------------|-----------------|--------------------------------|---------------------|-----------------|--------------------------------|---------------------|-----------------|-------|
| | Corrected Effective Stage (ft) | Proposed Stage (ft) | Difference (ft) | Corrected Effective Stage (ft) | Proposed Stage (ft) | Difference (ft) | Corrected Effective Stage (ft) | Proposed Stage (ft) | Difference (ft) | Corrected Effective Stage (ft) | Proposed Stage (ft) | Difference (ft) | Corrected Effective Stage (ft) | Proposed Stage (ft) | Difference (ft) | |
| 216148 | 21.87 | 21.87 | 0 | 22.01 | 22.01 | 0 | 22.1 | 22.1 | 0 | 22.13 | 22.13 | 0 | 22.17 | 22.17 | 0 | |
| 216798 | 40.04 | 40.04 | 0 | 42.12 | 42.12 | 0 | 42.31 | 42.31 | 0 | 42.41 | 42.41 | 0 | 42.75 | 42.75 | 0 | |
| 216898 | 39.97 | 39.97 | 0 | 39.98 | 39.98 | 0 | 39.98 | 39.98 | 0 | 39.99 | 39.99 | 0 | 40 | 40 | 0 | |
| 216918 | 61.59 | 61.59 | 0 | 61.76 | 61.76 | 0 | 61.86 | 61.86 | 0 | 61.9 | 61.9 | 0 | 62.04 | 62.04 | 0 | |
| 217398 | 30.47 | 30.47 | 0 | 30.61 | 30.61 | 0 | 30.88 | 30.88 | 0 | 30.95 | 30.95 | 0 | 31.42 | 31.42 | 0 | |
| 220898 | 27.05 | 27.05 | 0 | 27.08 | 27.08 | 0 | 27.13 | 27.13 | 0 | 27.14 | 27.14 | 0 | 27.18 | 27.18 | 0 | |
| 220908 | 34.56 | 34.56 | 0 | 34.58 | 34.58 | 0 | 34.6 | 34.6 | 0 | 34.61 | 34.61 | 0 | 34.65 | 34.65 | 0 | |
| 221118 | 39.73 | 39.73 | 0 | 40.32 | 40.32 | 0 | 40.58 | 40.58 | 0 | 40.71 | 40.71 | 0 | 41.3 | 41.3 | 0 | |
| 221308 | 31.33 | 31.33 | 0 | 31.5 | 31.5 | 0 | 31.54 | 31.54 | 0 | 31.61 | 31.61 | 0 | 32.46 | 32.46 | 0 | |
| 222048 | 30.32 | 30.32 | 0 | 30.37 | 30.37 | 0 | 30.39 | 30.39 | 0 | 30.4 | 30.4 | 0 | 30.44 | 30.44 | 0 | |
| 222358 | 28.14 | 28.14 | 0 | 28.52 | 28.52 | 0 | 28.68 | 28.68 | 0 | 28.74 | 28.74 | 0 | 29.03 | 29.03 | 0 | |
| 222408 | 33 | 33 | 0 | 33.34 | 33.34 | 0 | 33.42 | 33.42 | 0 | 33.49 | 33.49 | 0 | 33.85 | 33.85 | 0 | |
| 222768 | 30.28 | 30.28 | 0 | 30.5 | 30.5 | 0 | 30.6 | 30.6 | 0 | 30.69 | 30.69 | 0 | 31.04 | 31.04 | 0 | |
| 222778 | 27.3 | 27.3 | 0 | 27.37 | 27.37 | 0 | 27.42 | 27.42 | 0 | 27.44 | 27.44 | 0 | 27.48 | 27.48 | 0 | |
| 222848 | 46.68 | 46.68 | 0 | 47.62 | 47.62 | 0 | 48.13 | 48.13 | 0 | 48.58 | 48.58 | 0 | 50.61 | 50.61 | 0 | |
| 222858 | 47.33 | 47.33 | 0 | 48.16 | 48.16 | 0 | 48.58 | 48.58 | 0 | 48.76 | 48.76 | 0 | 50.22 | 50.22 | 0 | |
| 222898 | 72.7 | 72.7 | 0 | 73.37 | 73.37 | 0 | 73.83 | 73.83 | 0 | 74.12 | 74.12 | 0 | 75.41 | 75.41 | 0 | |
| 222918 | 63.12 | 63.12 | 0 | 63.33 | 63.33 | 0 | 63.37 | 63.37 | 0 | 63.41 | 63.41 | 0 | 63.59 | 63.59 | 0 | |
| 223028 | 41.25 | 41.25 | 0 | 41.52 | 41.52 | 0 | 41.75 | 41.75 | 0 | 41.87 | 41.87 | 0 | 42.57 | 42.57 | 0 | |
| 223118 | 50.2 | 50.2 | 0 | 50.41 | 50.41 | 0 | 50.45 | 50.45 | 0 | 50.46 | 50.46 | 0 | 50.51 | 50.51 | 0 | |
| 223148 | 54.77 | 54.77 | 0 | 54.8 | 54.8 | 0 | 54.81 | 54.81 | 0 | 54.82 | 54.82 | 0 | 54.83 | 54.83 | 0 | |
| 223208 | 44.82 | 44.82 | 0 | 44.89 | 44.89 | 0 | 44.92 | 44.92 | 0 | 44.94 | 44.94 | 0 | 45.08 | 45.08 | 0 | |
| 223228 | 50.21 | 50.21 | 0 | 50.43 | 50.43 | 0 | 50.46 | 50.46 | 0 | 50.47 | 50.47 | 0 | 50.57 | 50.57 | 0 | |
| 223258 | 48.67 | 48.67 | 0 | 49.04 | 49.04 | 0 | 49.08 | 49.08 | 0 | 49.09 | 49.09 | 0 | 49.73 | 49.73 | 0 | |
| 223278 | 76.94 | 76.94 | 0 | 76.99 | 76.99 | 0 | 77.01 | 77.01 | 0 | 77.02 | 77.02 | 0 | 77.13 | 77.13 | 0 | |
| 223298 | 62.02 | 62.02 | 0 | 62.17 | 62.17 | 0 | 62.18 | 62.18 | 0 | 62.18 | 62.18 | 0 | 62.19 | 62.19 | 0 | |
| 223318 | 46.86 | 46.86 | 0 | 47.07 | 47.07 | 0 | 47.12 | 47.12 | 0 | 47.19 | 47.19 | 0 | 47.66 | 47.66 | 0 | |
| 223328 | 66.68 | 66.68 | 0 | 66.81 | 66.81 | 0 | 66.84 | 66.84 | 0 | 66.85 | 66.85 | 0 | 66.92 | 66.92 | 0 | |
| 223448 | 39.71 | 39.71 | 0 | 39.81 | 39.81 | 0 | 39.85 | 39.85 | 0 | 39.86 | 39.86 | 0 | 39.94 | 39.94 | 0 | |
| 223458 | 35.23 | 35.23 | 0 | 35.93 | 35.93 | 0 | 36.49 | 36.49 | 0 | 36.72 | 36.72 | 0 | 37.91 | 37.91 | 0 | |
| 223528 | 36.33 | 36.33 | 0 | 36.74 | 36.74 | 0 | 37.1 | 37.1 | 0 | 37.41 | 37.41 | 0 | 38.4 | 38.4 | 0 | |
| 223538 | 64.32 | 64.32 | 0 | 64.38 | 64.38 | 0 | 64.39 | 64.39 | 0 | 64.39 | 64.39 | 0 | 64.41 | 64.41 | 0 | |
| 280625 | 7.22 | 7.22 | 0 | 8.18 | 8.18 | 0 | 8.58 | 8.58 | 0 | 8.77 | 8.77 | 0 | 9.61 | 9.61 | 0 | |
| 200000 | 1.62 | 1.62 | 0 | 1.62 | 1.62 | 0 | 1.62 | 1.62 | 0 | 1.62 | 1.62 | 0 | 1.62 | 1.62 | 0 | |
| 200205 | 3 | 3 | 0 | 3 | 3 | 0 | 3 | 3 | 0 | 3 | 3 | 0 | 3 | 3 | 0 | |
| 201000 | 1.62 | 1.62 | 0 | 1.62 | 1.62 | 0 | 1.62 | 1.62 | 0 | 1.62 | 1.62 | 0 | 1.62 | 1.62 | 0 | |
| 202000 | 1.62 | 1.62 | 0 | 1.62 | 1.62 | 0 | 1.62 | 1.62 | 0 | 1.62 | 1.62 | 0 | 1.62 | 1.62 | 0 | |
| 202100 | 1.62 | 1.62 | 0 | 1.62 | 1.62 | 0 | 1.62 | 1.62 | 0 | 1.62 | 1.62 | 0 | 1.62 | 1.62 | 0 | |
| 210000 | 1.62 | 1.62 | 0 | 1.62 | 1.62 | 0 | 1.62 | 1.62 | 0 | 1.62 | 1.62 | 0 | 1.62 | 1.62 | 0 | |
| 210795 | 1.62 | 1.62 | 0 | 1.62 | 1.62 | 0 | 1.62 | 1.62 | 0 | 1.62 | 1.62 | 0 | 1.62 | 1.62 | 0 | |
| 210805 | 3 | 3 | 0 | 3 | 3 | 0 | 3 | 3 | 0 | 3 | 3 | 0 | 3 | 3 | 0 | |
| 212485 | 18 | 18 | 0 | 18 | 18 | 0 | 18 | 18 | 0 | 18 | 18 | 0 | 18 | 18 | 0 | |
| 212495 | 17 | 17 | 0 | 17 | 17 | 0 | 17 | 17 | 0 | 17 | 17 | 0 | 17 | 17 | 0 | |
| 212955 | 22 | 22 | 0 | 22 | 22 | 0 | 22 | 22 | 0 | 22 | 22 | 0 | 22 | 22 | 0 | |
| 214055 | 27 | 27 | 0 | 27 | 27 | 0 | 27 | 27 | 0 | 27 | 27 | 0 | 27 | 27 | 0 | |
| 214245 | 25 | 25 | 0 | 25 | 25 | 0 | 25 | 25 | 0 | 25 | 25 | 0 | 25 | 25 | 0 | |
| 216146 | 20.86 | 20.86 | 0 | 20.93 | 20.93 | 0 | 20.95 | 20.95 | 0 | 20.96 | 20.96 | 0 | 20.97 | 20.97 | 0 | |
| 216385 | 28 | 28 | 0 | 28 | 28 | 0 | 28 | 28 | 0 | 28 | 28 | 0 | 28 | 28 | 0 | |
| 216558 | 27.97 | 27.97 | 0 | 27.97 | 27.97 | 0 | 27.97 | 27.97 | 0 | 27.97 | 27.97 | 0 | 27.97 | 27.97 | 0 | |
| 216668 | 36.4 | 36.4 | 0 | 36.4 | 36.4 | 0 | 36.4 | 36.4 | 0 | 36.4 | 36.4 | 0 | 36.4 | 36.4 | 0 | |
| 216778 | 28.2 | 28.2 | 0 | 28.2 | 28.2 | 0 | 28.2 | 28.2 | 0 | 28.2 | 28.2 | 0 | 28.2 | 28.2 | 0 | |
| 216788 | 12.94 | 12.94 | 0 | 12.94 | 12.94 | 0 | 12.94 | 12.94 | 0 | 12.94 | 12.94 | 0 | 12.94 | 12.94 | 0 | |
| 216796 | 33.15 | 33.15 | 0 | 33.15 | 33.15 | 0 | 33.15 | 33.15 | 0 | 33.15 | 33.15 | 0 | 33.15 | 33.15 | 0 | |
| 216896 | 38.93 | 38.93 | 0 | 38.93 | 38.93 | 0 | 38.93 | 38.93 | 0 | 38.93 | 38.93 | 0 | 38.94 | 38.94 | 0 | |
| 216916 | 60.58 | 60.58 | 0 | 60.66 | 60.66 | 0 | 60.69 | 60.69 | 0 | 60.7 | 60.7 | 0 | 60.74 | 60.74 | 0 | |
| 217396 | 29.43 | 29.43 | 0 | 29.48 | 29.48 | 0 | 29.54 | 29.54 | 0 | 29.56 | 29.56 | 0 | 29.65 | 29.65 | 0 | |
| 217498 | 34.57 | 34.57 | 0 | 34.57 | 34.57 | 0 | 34.57 | 34.57 | 0 | 34.57 | 34.57 | 0 | 34.57 | 34.57 | 0 | |
| 220896 | 26.04 | 26.04 | 0 | 26.06 | 26.06 | 0 | 26.08 | 26.08 | 0 | 26.08 | 26.08 | 0 | 26.09 | 26.09 | 0 | |
| 220906 | 33.55 | 33.55 | 0 | 33.56 | 33.56 | 0 | 33.57 | 33.57 | 0 | 33.57 | 33.57 | 0 | 33.59 | 33.59 | 0 | |
| 220938 | 27.28 | 27.28 | 0 | 27.28 | 27.28 | 0 | 27.28 | 27.28 | 0 | 27.28 | 27.28 | 0 | 27.28 | 27.28 | 0 | |
| 221116 | 31.05 | 31.05 | 0 | 31.05 | 31.05 | 0 | 31.05 | 31.05 | 0 | 31.05 | 31.05 | 0 | 31.05 | 31.05 | 0 | |
| 221228 | 28.42 | 28.42 | 0 | 28.42 | 28.42 | 0 | 28.42 | 28.42 | 0 | 28.42 | 28.42 | 0 | 28.42 | 28.42 | 0 | |
| 221306 | 30.21 | 30.21 | 0 | 30.26 | 30.26 | 0 | 30.27 | 30.27 | 0 | 30.29 | 30.29 | 0 | 30.47 | 30.47 | 0 | |
| 222046 | 30.3 | 30.3 | 0 | 30.33 | 30.33 | 0 | 30.34 | 30.34 | 0 | 30.35 | 30.35 | 0 | 30.37 | 30.37 | 0 | |
| 222088 | 33.08 | 33.08 | 0 | 33.08 | 33.08 | 0 | 33.08 | 33.08 | 0 | 33.08 | 33.08 | 0 | 33.08 | 33.08 | 0 | |
| 222168 | 26.16 | 26.16 | 0 | 26.16 | 26.16 | 0 | 26.16 | 26.16 | 0 | 26.16 | 26.16 | 0 | 26.16 | 26.16 | 0 | |
| 222356 | 27.09 | 27.09 | 0 | 27.19 | 27.19 | 0 | 27.22 | 27.22 | 0 | 27.24 | 27.24 | 0 | 27.29 | 27.29 | 0 | |
| 222378 | 31.14 | 31.14 | 0 | 31.14 | 31.14 | 0 | 31.14 | 31.14 | 0 | 31.14 | 31.14 | 0 | 31.14 | 31.14 | 0 | |
| 222406 | 32 | 32 | 0 | 32.14 | 32.14 | 0 | 32.16 | 32.16 | 0 | 32.17 | 32.17 | 0 | 32.25 | 32.25 | 0 | |
| 222478 | 33.08 | 33.08 | 0 | 33.08 | 33.08 | 0 | 33.08 | 33.08 | 0 | 33.08 | 33.08 | 0 | 33.08 | 33.08 | 0 | |
| 222483 | 33.23 | 33.23 | 0 | 33.23 | 33.23 | 0 | 33.23 | 33.23 | 0 | 33.23 | 33.23 | 0 | 33.23 | 33.23 | 0 | |
| 222493 | 38 | 38 | 0 | 38 | 38 | 0 | 38 | 38 | 0 | 38 | 38 | 0 | 38 | 38 | 0 | |
| 222503 | 33 | 33 | 0 | 33 | 33 | 0 | 33 | 33 | 0 | 33 | 33 | 0 | 33 | 33 | 0 | |
| 222638 | 30.89 | 30.89 | 0 | 30.89 | 30.89 | 0 | 30.89 | 30.89 | 0 | 30.89 | 30.89 | 0 | 30.89 | 30.89 | 0 | |
| 222658 | 29.78 | 29.78 | 0 | 29.78 | 29.78 | 0 | 29.78 | 29.78 | 0 | 29.78 | 29.78 | 0 | 29.78 | 29.78 | 0 | |
| 222698 | 23.62 | 23.62 | 0 | 23.62 | 23.62 | 0 | 23.62 | 23.62 | 0 | 23.62 | 23.62 | 0 | 23.62 | 23.62 | 0 | |
| 222718 | 33 | 33 | 0 | 33 | 33 | 0 | 33 | 33 | 0 | 33 | 33 | 0 | 33 | 33 | 0 | |
| 222766 | 29.25 | 29.25 | 0 | 29.32 | 29.32 | 0 | 29.34 | 29.34 | 0 | 29.36 | 29.36 | 0 | 29.43 | 29.43 | 0 | |
| 222776 | 26.15 | 26.15 | 0 | 26.17 | 26.17 | 0 | 26.19 | 26.19 | 0 | 26.2 | 26.2 | 0 | 26.22 | 26.22 | 0 | |
| 222798 | 15.9 | 15.9 | 0 | 15.9 | 15.9 | 0 | 15.9 | 15.9 | 0 | 15.9 | 15.9 | 0 | 15.9 | 15.9 | 0 | |
| 222846 | 45.74 | 45.74 | 0 | 46.21 | 46.21 | 0 | 46.48 | 46.48 | 0 | 46.73 | 46.73 | 0 | 47.82 | 47.82 | 0 | |
| 222856 | 46.54 | 46.54 | 0 | 46.94 | 46.94 | 0 | 47.15 | 47.15 | 0 | 47.24 | 47.24 | 0 | 47.99 | 47.99 | 0 | |
| 222888 | 68.12 | 68.12 | 0 | 68.12 | 68.12 | 0 | 68.12 | 68.12 | 0 | 68.12 | 68.12 | 0 | 68.12 | 68.12 | 0 | |
| 222896 | 71.56 | 71.56 | 0 | 71.7 | 71.7 | 0 | 71.79 | 71.79 | 0 | 71.84 | 71.84 | 0 | 72.07 | 72.07 | 0 | |
| 222908 | 48 | 48 | 0 | 48 | 48 | 0 | 48 | 48 | 0 | 48 | 48 | 0 | 48 | 48 | 0 | |
| 222916 | 53.81 | 53.81 | 0 | 54 | 54 | 0 | 54.04 | 54.04 | 0 | 54.07 | 54.07 | 0 | 54.23 | 54.23 | 0 | |

Summary of Corrected and Revised Stages for Bridge Culvert

| Node | 2.33YR24HR | | | 25YR24HR | | | 50YR24HR | | | 100YR24HR | | | 500YR24HR | | | Notes |
|--------|--------------------------------|---------------------|-----------------|--------------------------------|---------------------|-----------------|--------------------------------|---------------------|-----------------|--------------------------------|---------------------|-----------------|--------------------------------|---------------------|-----------------|-------|
| | Corrected Effective Stage (ft) | Proposed Stage (ft) | Difference (ft) | Corrected Effective Stage (ft) | Proposed Stage (ft) | Difference (ft) | Corrected Effective Stage (ft) | Proposed Stage (ft) | Difference (ft) | Corrected Effective Stage (ft) | Proposed Stage (ft) | Difference (ft) | Corrected Effective Stage (ft) | Proposed Stage (ft) | Difference (ft) | |
| 222988 | 79.03 | 79.03 | 0 | 79.03 | 79.03 | 0 | 79.03 | 79.03 | 0 | 79.03 | 79.03 | 0 | 79.03 | 79.03 | 0 | |
| 222998 | 63.97 | 63.97 | 0 | 63.97 | 63.97 | 0 | 63.97 | 63.97 | 0 | 63.97 | 63.97 | 0 | 63.97 | 63.97 | 0 | |
| 223026 | 38.12 | 38.12 | 0 | 38.12 | 38.12 | 0 | 38.12 | 38.12 | 0 | 38.12 | 38.12 | 0 | 38.12 | 38.12 | 0 | |
| 223038 | 36.14 | 36.14 | 0 | 36.14 | 36.14 | 0 | 36.14 | 36.14 | 0 | 36.14 | 36.14 | 0 | 36.14 | 36.14 | 0 | |
| 223116 | 48.88 | 48.88 | 0 | 49.01 | 49.01 | 0 | 49.03 | 49.03 | 0 | 49.03 | 49.03 | 0 | 49.07 | 49.07 | 0 | |
| 223138 | 47.3 | 47.3 | 0 | 47.3 | 47.3 | 0 | 47.3 | 47.3 | 0 | 47.3 | 47.3 | 0 | 47.3 | 47.3 | 0 | |
| 223146 | 51.54 | 51.54 | 0 | 51.57 | 51.57 | 0 | 51.58 | 51.58 | 0 | 51.59 | 51.59 | 0 | 51.6 | 51.6 | 0 | |
| 223178 | 42.77 | 42.77 | 0 | 42.77 | 42.77 | 0 | 42.77 | 42.77 | 0 | 42.77 | 42.77 | 0 | 42.77 | 42.77 | 0 | |
| 223206 | 43.69 | 43.69 | 0 | 43.73 | 43.73 | 0 | 43.74 | 43.74 | 0 | 43.75 | 43.75 | 0 | 43.82 | 43.82 | 0 | |
| 223226 | 45.35 | 45.35 | 0 | 45.35 | 45.35 | 0 | 45.35 | 45.35 | 0 | 45.35 | 45.35 | 0 | 45.35 | 45.35 | 0 | |
| 223256 | 47.37 | 47.37 | 0 | 47.58 | 47.58 | 0 | 47.6 | 47.6 | 0 | 47.61 | 47.61 | 0 | 47.98 | 47.98 | 0 | |
| 223276 | 75.92 | 75.92 | 0 | 75.95 | 75.95 | 0 | 75.96 | 75.96 | 0 | 75.96 | 75.96 | 0 | 75.99 | 75.99 | 0 | |
| 223288 | 74.67 | 74.67 | 0 | 74.67 | 74.67 | 0 | 74.67 | 74.67 | 0 | 74.67 | 74.67 | 0 | 74.67 | 74.67 | 0 | |
| 223296 | 61 | 61 | 0 | 61.06 | 61.06 | 0 | 61.07 | 61.07 | 0 | 61.07 | 61.07 | 0 | 61.07 | 61.07 | 0 | |
| 223308 | 66.17 | 66.17 | 0 | 66.17 | 66.17 | 0 | 66.17 | 66.17 | 0 | 66.17 | 66.17 | 0 | 66.17 | 66.17 | 0 | |
| 223316 | 43.83 | 43.83 | 0 | 43.83 | 43.83 | 0 | 43.83 | 43.83 | 0 | 43.83 | 43.83 | 0 | 43.83 | 43.83 | 0 | |
| 223326 | 59.11 | 59.11 | 0 | 59.11 | 59.11 | 0 | 59.11 | 59.11 | 0 | 59.11 | 59.11 | 0 | 59.11 | 59.11 | 0 | |
| 223338 | 65.39 | 65.39 | 0 | 65.39 | 65.39 | 0 | 65.39 | 65.39 | 0 | 65.39 | 65.39 | 0 | 65.39 | 65.39 | 0 | |
| 223348 | 63.2 | 63.2 | 0 | 63.2 | 63.2 | 0 | 63.2 | 63.2 | 0 | 63.2 | 63.2 | 0 | 63.2 | 63.2 | 0 | |
| 223408 | 38.32 | 38.32 | 0 | 38.32 | 38.32 | 0 | 38.32 | 38.32 | 0 | 38.32 | 38.32 | 0 | 38.32 | 38.32 | 0 | |
| 223418 | 31.55 | 31.55 | 0 | 31.55 | 31.55 | 0 | 31.55 | 31.55 | 0 | 31.55 | 31.55 | 0 | 31.55 | 31.55 | 0 | |
| 223428 | 39.64 | 39.64 | 0 | 39.64 | 39.64 | 0 | 39.64 | 39.64 | 0 | 39.64 | 39.64 | 0 | 39.64 | 39.64 | 0 | |
| 223446 | 38.44 | 38.44 | 0 | 38.5 | 38.5 | 0 | 38.52 | 38.52 | 0 | 38.53 | 38.53 | 0 | 38.57 | 38.57 | 0 | |
| 223456 | 33.96 | 33.96 | 0 | 34.1 | 34.1 | 0 | 34.2 | 34.2 | 0 | 34.24 | 34.24 | 0 | 34.45 | 34.45 | 0 | |
| 223468 | 50 | 50 | 0 | 50 | 50 | 0 | 50 | 50 | 0 | 50 | 50 | 0 | 50 | 50 | 0 | |
| 223478 | 53.9 | 53.9 | 0 | 53.9 | 53.9 | 0 | 53.9 | 53.9 | 0 | 53.9 | 53.9 | 0 | 53.9 | 53.9 | 0 | |
| 223488 | 53.02 | 53.02 | 0 | 53.02 | 53.02 | 0 | 53.02 | 53.02 | 0 | 53.02 | 53.02 | 0 | 53.02 | 53.02 | 0 | |
| 223526 | 35.15 | 35.15 | 0 | 35.24 | 35.24 | 0 | 35.3 | 35.3 | 0 | 35.36 | 35.36 | 0 | 35.54 | 35.54 | 0 | |
| 223536 | 55.33 | 55.33 | 0 | 55.33 | 55.33 | 0 | 55.33 | 55.33 | 0 | 55.33 | 55.33 | 0 | 55.33 | 55.33 | 0 | |
| 223548 | 70.09 | 70.09 | 0 | 70.09 | 70.09 | 0 | 70.09 | 70.09 | 0 | 70.09 | 70.09 | 0 | 70.09 | 70.09 | 0 | |
| 223558 | 72.9 | 72.9 | 0 | 72.9 | 72.9 | 0 | 72.9 | 72.9 | 0 | 72.9 | 72.9 | 0 | 72.9 | 72.9 | 0 | |
| 230000 | 1.62 | 1.62 | 0 | 1.62 | 1.62 | 0 | 1.62 | 1.62 | 0 | 1.62 | 1.62 | 0 | 1.62 | 1.62 | 0 | |
| 240000 | 1.62 | 1.62 | 0 | 1.62 | 1.62 | 0 | 1.62 | 1.62 | 0 | 1.62 | 1.62 | 0 | 1.62 | 1.62 | 0 | |
| 250000 | 1.62 | 1.62 | 0 | 1.62 | 1.62 | 0 | 1.62 | 1.62 | 0 | 1.62 | 1.62 | 0 | 1.62 | 1.62 | 0 | |
| 250195 | 15 | 15 | 0 | 15 | 15 | 0 | 15 | 15 | 0 | 15 | 15 | 0 | 15 | 15 | 0 | |
| 250435 | 9.5 | 9.5 | 0 | 9.5 | 9.5 | 0 | 9.5 | 9.5 | 0 | 9.5 | 9.5 | 0 | 9.5 | 9.5 | 0 | |
| 260000 | 1.62 | 1.62 | 0 | 1.62 | 1.62 | 0 | 1.62 | 1.62 | 0 | 1.62 | 1.62 | 0 | 1.62 | 1.62 | 0 | |
| 262360 | 40 | 40 | 0 | 40 | 40 | 0 | 40 | 40 | 0 | 40 | 40 | 0 | 40 | 40 | 0 | |
| 266278 | 31.81 | 31.81 | 0 | 31.81 | 31.81 | 0 | 31.81 | 31.81 | 0 | 31.81 | 31.81 | 0 | 31.81 | 31.81 | 0 | |
| 266800 | 1.62 | 1.62 | 0 | 1.62 | 1.62 | 0 | 1.62 | 1.62 | 0 | 1.62 | 1.62 | 0 | 1.62 | 1.62 | 0 | |
| 270000 | 1.62 | 1.62 | 0 | 1.74 | 1.74 | 0 | 1.82 | 1.82 | 0 | 1.85 | 1.85 | 0 | 2.01 | 2.01 | 0 | |
| 280000 | 1.62 | 1.62 | 0 | 1.62 | 1.62 | 0 | 1.62 | 1.62 | 0 | 1.62 | 1.62 | 0 | 1.62 | 1.62 | 0 | |
| 280448 | 22 | 22 | 0 | 22 | 22 | 0 | 22 | 22 | 0 | 22 | 22 | 0 | 22 | 22 | 0 | |
| 280465 | 22 | 22 | 0 | 22 | 22 | 0 | 22 | 22 | 0 | 22 | 22 | 0 | 22 | 22 | 0 | |
| 280623 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 200010 | 3.23 | 3.22 | -0.01 | 4.86 | 4.85 | -0.01 | 5.16 | 5.15 | -0.01 | 5.29 | 5.28 | -0.01 | 5.89 | 5.88 | -0.01 | |
| 200020 | 3.43 | 3.42 | -0.01 | 5.66 | 5.65 | -0.01 | 5.88 | 5.87 | -0.01 | 5.96 | 5.96 | 0 | 6.33 | 6.33 | 0 | |
| 200030 | 3.62 | 3.61 | -0.01 | 5.8 | 5.79 | -0.01 | 6.02 | 6.02 | 0 | 6.11 | 6.11 | 0 | 6.5 | 6.5 | 0 | |
| 200040 | 3.66 | 3.65 | -0.01 | 5.98 | 5.97 | -0.01 | 6.22 | 6.22 | 0 | 6.31 | 6.31 | 0 | 6.75 | 6.74 | -0.01 | |
| 200050 | 3.67 | 3.66 | -0.01 | 5.98 | 5.97 | -0.01 | 6.22 | 6.22 | 0 | 6.32 | 6.32 | 0 | 6.76 | 6.75 | -0.01 | |
| 200060 | 4.22 | 4.21 | -0.01 | 6.49 | 6.48 | -0.01 | 6.9 | 6.9 | 0 | 7.08 | 7.08 | 0 | 7.95 | 7.94 | -0.01 | |
| 200070 | 4.4 | 4.39 | -0.01 | 6.5 | 6.49 | -0.01 | 6.91 | 6.9 | -0.01 | 7.09 | 7.09 | 0 | 7.95 | 7.95 | 0 | |
| 200080 | 4.46 | 4.46 | 0 | 6.75 | 6.74 | -0.01 | 7.3 | 7.3 | 0 | 7.58 | 7.58 | 0 | 9.05 | 9.05 | 0 | |
| 200090 | 5.13 | 5.13 | 0 | 6.84 | 6.84 | 0 | 7.38 | 7.37 | -0.01 | 7.65 | 7.64 | -0.01 | 9.07 | 9.07 | 0 | |
| 200100 | 5.89 | 5.89 | 0 | 6.99 | 6.99 | 0 | 7.51 | 7.51 | 0 | 7.76 | 7.76 | 0 | 9.12 | 9.12 | 0 | |
| 200110 | 6.66 | 6.66 | 0 | 7.57 | 7.57 | 0 | 8.05 | 8.05 | 0 | 8.26 | 8.26 | 0 | 9.3 | 9.3 | 0 | |
| 200120 | 6.77 | 6.77 | 0 | 7.66 | 7.66 | 0 | 8.14 | 8.13 | -0.01 | 8.35 | 8.34 | -0.01 | 9.34 | 9.34 | 0 | |
| 200130 | 8.38 | 8.38 | 0 | 9.37 | 9.37 | 0 | 9.69 | 9.69 | 0 | 9.82 | 9.82 | 0 | 10.31 | 10.31 | 0 | |
| 200140 | 8.74 | 8.74 | 0 | 9.6 | 9.6 | 0 | 9.94 | 9.94 | 0 | 10.09 | 10.09 | 0 | 10.63 | 10.63 | 0 | |
| 200150 | 9.27 | 9.27 | 0 | 9.87 | 9.87 | 0 | 10.18 | 10.18 | 0 | 10.32 | 10.32 | 0 | 10.89 | 10.89 | 0 | |
| 200160 | 10.1 | 10.1 | 0 | 10.75 | 10.75 | 0 | 11.09 | 11.09 | 0 | 11.25 | 11.25 | 0 | 11.95 | 11.95 | 0 | |
| 200170 | 10.68 | 10.68 | 0 | 12.07 | 12.07 | 0 | 12.31 | 12.31 | 0 | 12.41 | 12.41 | 0 | 12.92 | 12.92 | 0 | |
| 200180 | 10.84 | 10.84 | 0 | 12.15 | 12.15 | 0 | 12.39 | 12.39 | 0 | 12.49 | 12.49 | 0 | 13.01 | 13.01 | 0 | |
| 200200 | 3.67 | 3.66 | -0.01 | 5.98 | 5.97 | -0.01 | 6.23 | 6.22 | -0.01 | 6.32 | 6.32 | 0 | 6.76 | 6.75 | -0.01 | |
| 200210 | 3.67 | 3.66 | -0.01 | 6.06 | 6.05 | -0.01 | 6.3 | 6.3 | 0 | 6.39 | 6.39 | 0 | 6.8 | 6.79 | -0.01 | |
| 200220 | 3.67 | 3.66 | -0.01 | 6.08 | 6.07 | -0.01 | 6.34 | 6.34 | 0 | 6.44 | 6.44 | 0 | 6.88 | 6.86 | -0.02 | |
| 200230 | 3.86 | 3.81 | -0.05 | 6.54 | 6.53 | -0.01 | 6.92 | 6.91 | -0.01 | 7.07 | 7.07 | 0 | 7.75 | 7.71 | -0.04 | |
| 200240 | 6.53 | 6.53 | 0 | 6.78 | 6.78 | 0 | 7.05 | 7.04 | -0.01 | 7.3 | 7.3 | 0 | 8.49 | 8.46 | -0.03 | |
| 200250 | 8.61 | 8.61 | 0 | 8.93 | 8.93 | 0 | 9.07 | 9.07 | 0 | 9.14 | 9.14 | 0 | 9.52 | 9.52 | 0 | |
| 200260 | 4.07 | 4 | -0.07 | 6.49 | 6.46 | -0.03 | 6.96 | 6.95 | -0.01 | 7.12 | 7.12 | 0 | 7.82 | 7.78 | -0.04 | |
| 200270 | 4.82 | 4.82 | 0 | 6.49 | 6.46 | -0.03 | 6.96 | 6.95 | -0.01 | 7.12 | 7.12 | 0 | 7.82 | 7.78 | -0.04 | |
| 200280 | 3.89 | 3.84 | -0.05 | 6.58 | 6.56 | -0.02 | 6.96 | 6.95 | -0.01 | 7.12 | 7.12 | 0 | 7.82 | 7.78 | -0.04 | |
| 200300 | 3.67 | 3.66 | -0.01 | 5.98 | 5.97 | -0.01 | 6.22 | 6.22 | 0 | 6.32 | 6.32 | 0 | 6.76 | 6.75 | -0.01 | |
| 200310 | 3.67 | 3.66 | -0.01 | 5.99 | 5.98 | -0.01 | 6.23 | 6.23 | 0 | 6.33 | 6.33 | 0 | 6.79 | 6.78 | -0.01 | |
| 200320 | 3.67 | 3.66 | -0.01 | 6.48 | 6.46 | -0.02 | 6.89 | 6.88 | -0.01 | 7.06 | 7.06 | 0 | 7.92 | 7.92 | 0 | |
| 200330 | 6.78 | 6.76 | -0.02 | 8.1 | 8.1 | 0 | 8.3 | 8.3 | 0 | 8.37 | 8.37 | 0 | 9.19 | 9.19 | 0 | |
| 200400 | 4.47 | 4.47 | 0 | 6.83 | 6.82 | -0.01 | 7.34 | 7.34 | 0 | 7.6 | 7.6 | 0 | 9.05 | 9.05 | 0 | |
| 200410 | 5.32 | 5.32 | 0 | 6.87 | 6.87 | 0 | 7.35 | 7.34 | -0.01 | 7.61 | 7.6 | -0.01 | 9.05 | 9.05 | 0 | |
| 200420 | 5.32 | 5.32 | 0 | 6.95 | 6.94 | -0.01 | 7.48 | 7.48 | 0 | 7.74 | 7.74 | 0 | 9.08 | 9.08 | 0 | |
| 200430 | 5.36 | 5.36 | 0 | 7.05 | 7.05 | 0 | 7.57 | 7.57 | 0 | 7.8 | 7.8 | 0 | 9.08 | 9.08 | 0 | |
| 200440 | 5.4 | 5.4 | 0 | 7.41 | 7.41 | 0 | 7.98 | 7.98 | 0 | 8.25 | 8.25 | 0 | 9.24 | 9.24 | 0 | |
| 200450 | 5.72 | 5.72 | 0 | 7.52 | 7.52 | 0 | 8.02 | 8.02 | 0 | 8.27 | 8.27 | 0 | 9.24 | 9.24 | 0 | |
| 200460 | 5.72 | 5.72 | 0 | 7.58 | 7.58 | 0 | 8.17 | 8.17 | 0 | 8.44 | 8.44 | 0 | 9.31 | 9.31 | 0 | |
| 200470 | 5.82 | 5.82 | 0 | 7.69 | 7.69 | 0 | 8.26 | | | | | | | | | |

Summary of Corrected and Revised Stages for Bridge Culvert

| Node | 2.33YR24HR | | | 25YR24HR | | | 50YR24HR | | | 100YR24HR | | | 500YR24HR | | | Notes |
|--------|--------------------------------|---------------------|-----------------|--------------------------------|---------------------|-----------------|--------------------------------|---------------------|-----------------|--------------------------------|---------------------|-----------------|--------------------------------|---------------------|-----------------|-------|
| | Corrected Effective Stage (ft) | Proposed Stage (ft) | Difference (ft) | Corrected Effective Stage (ft) | Proposed Stage (ft) | Difference (ft) | Corrected Effective Stage (ft) | Proposed Stage (ft) | Difference (ft) | Corrected Effective Stage (ft) | Proposed Stage (ft) | Difference (ft) | Corrected Effective Stage (ft) | Proposed Stage (ft) | Difference (ft) | |
| 200610 | 6.71 | 6.71 | 0 | 7.73 | 7.73 | 0 | 8.33 | 8.33 | 0 | 8.59 | 8.59 | 0 | 9.36 | 9.36 | 0 | |
| 200620 | 6.72 | 6.72 | 0 | 7.76 | 7.76 | 0 | 8.38 | 8.38 | 0 | 8.66 | 8.66 | 0 | 9.52 | 9.52 | 0 | |
| 200630 | 6.72 | 6.72 | 0 | 7.84 | 7.84 | 0 | 8.53 | 8.53 | 0 | 8.83 | 8.83 | 0 | 9.84 | 9.84 | 0 | |
| 200640 | 7.64 | 7.64 | 0 | 8.33 | 8.33 | 0 | 8.77 | 8.77 | 0 | 8.96 | 8.96 | 0 | 9.88 | 9.88 | 0 | |
| 200650 | 7.69 | 7.69 | 0 | 8.32 | 8.32 | 0 | 8.64 | 8.64 | 0 | 8.82 | 8.82 | 0 | 9.81 | 9.81 | 0 | |
| 201010 | 1.78 | 1.78 | 0 | 2 | 2 | 0 | 2.13 | 2.13 | 0 | 2.19 | 2.19 | 0 | 2.55 | 2.55 | 0 | |
| 201020 | 1.92 | 1.92 | 0 | 2.25 | 2.25 | 0 | 2.43 | 2.43 | 0 | 2.52 | 2.52 | 0 | 2.96 | 2.96 | 0 | |
| 201030 | 2.04 | 2.04 | 0 | 2.46 | 2.46 | 0 | 2.67 | 2.67 | 0 | 2.77 | 2.77 | 0 | 3.23 | 3.23 | 0 | |
| 201040 | 2.24 | 2.24 | 0 | 2.71 | 2.71 | 0 | 2.91 | 2.91 | 0 | 3 | 3 | 0 | 3.42 | 3.42 | 0 | |
| 201050 | 2.34 | 2.34 | 0 | 2.79 | 2.79 | 0 | 2.97 | 2.97 | 0 | 3.06 | 3.06 | 0 | 3.46 | 3.46 | 0 | |
| 201060 | 3.2 | 3.2 | 0 | 3.77 | 3.77 | 0 | 3.93 | 3.93 | 0 | 4 | 4 | 0 | 4.27 | 4.27 | 0 | |
| 201070 | 3.52 | 3.52 | 0 | 4.42 | 4.42 | 0 | 4.75 | 4.75 | 0 | 4.89 | 4.89 | 0 | 5.54 | 5.54 | 0 | |
| 201080 | 3.89 | 3.89 | 0 | 4.69 | 4.69 | 0 | 5 | 5 | 0 | 5.14 | 5.14 | 0 | 5.72 | 5.72 | 0 | |
| 201090 | 3.95 | 3.95 | 0 | 4.71 | 4.71 | 0 | 5.01 | 5.01 | 0 | 5.15 | 5.15 | 0 | 5.73 | 5.73 | 0 | |
| 201100 | 4.37 | 4.37 | 0 | 5.15 | 5.15 | 0 | 5.48 | 5.48 | 0 | 5.7 | 5.69 | -0.01 | 6.64 | 6.64 | 0 | |
| 201110 | 4.69 | 4.69 | 0 | 5.64 | 5.64 | 0 | 6.12 | 6.12 | 0 | 6.38 | 6.38 | 0 | 7.7 | 7.7 | 0 | |
| 201120 | 5.42 | 5.42 | 0 | 6.01 | 6.01 | 0 | 6.24 | 6.24 | 0 | 6.51 | 6.51 | 0 | 7.84 | 7.84 | 0 | |
| 201130 | 5.43 | 5.43 | 0 | 6.05 | 6.05 | 0 | 6.4 | 6.4 | 0 | 6.7 | 6.7 | 0 | 8.05 | 8.05 | 0 | |
| 201140 | 5.99 | 5.99 | 0 | 6.52 | 6.52 | 0 | 7.06 | 7.06 | 0 | 7.42 | 7.42 | 0 | 8.72 | 8.72 | 0 | |
| 201150 | 6 | 6 | 0 | 6.91 | 6.91 | 0 | 7.46 | 7.46 | 0 | 7.9 | 7.9 | 0 | 9.23 | 9.23 | 0 | |
| 201160 | 6.48 | 6.48 | 0 | 7.46 | 7.46 | 0 | 8.04 | 8.04 | 0 | 8.49 | 8.49 | 0 | 9.54 | 9.54 | 0 | |
| 201170 | 7.49 | 7.49 | 0 | 7.97 | 7.97 | 0 | 8.35 | 8.35 | 0 | 8.63 | 8.63 | 0 | 9.55 | 9.55 | 0 | |
| 201180 | 7.5 | 7.5 | 0 | 7.99 | 7.99 | 0 | 8.38 | 8.38 | 0 | 8.67 | 8.67 | 0 | 9.76 | 9.76 | 0 | |
| 201190 | 7.9 | 7.9 | 0 | 8.32 | 8.32 | 0 | 8.62 | 8.62 | 0 | 8.8 | 8.8 | 0 | 9.81 | 9.81 | 0 | |
| 201200 | 1.96 | 1.96 | 0 | 2.31 | 2.31 | 0 | 2.5 | 2.5 | 0 | 2.59 | 2.59 | 0 | 3.04 | 3.04 | 0 | |
| 201210 | 1.97 | 1.97 | 0 | 2.34 | 2.34 | 0 | 2.53 | 2.53 | 0 | 2.62 | 2.62 | 0 | 3.06 | 3.06 | 0 | |
| 201220 | 2.18 | 2.18 | 0 | 2.62 | 2.62 | 0 | 2.81 | 2.81 | 0 | 2.89 | 2.89 | 0 | 3.28 | 3.28 | 0 | |
| 201230 | 2.77 | 2.77 | 0 | 3.43 | 3.43 | 0 | 3.69 | 3.69 | 0 | 3.8 | 3.8 | 0 | 4.39 | 4.39 | 0 | |
| 201240 | 2.87 | 2.87 | 0 | 3.58 | 3.58 | 0 | 3.82 | 3.82 | 0 | 4.05 | 4.04 | -0.01 | 6.02 | 6 | -0.02 | |
| 201250 | 2.88 | 2.88 | 0 | 3.59 | 3.59 | 0 | 3.83 | 3.83 | 0 | 4.12 | 4.11 | -0.01 | 6.31 | 6.29 | -0.02 | |
| 201260 | 3.36 | 3.36 | 0 | 4.24 | 4.24 | 0 | 5.03 | 5.01 | -0.02 | 5.36 | 5.36 | 0 | 6.32 | 6.3 | -0.02 | |
| 201270 | 4.31 | 4.31 | 0 | 4.62 | 4.62 | 0 | 5.14 | 5.13 | -0.01 | 5.39 | 5.39 | 0 | 6.32 | 6.3 | -0.02 | |
| 201280 | 4.03 | 4.03 | 0 | 4.6 | 4.6 | 0 | 5.12 | 5.11 | -0.01 | 5.38 | 5.37 | -0.01 | 6.32 | 6.3 | -0.02 | |
| 201290 | 4.09 | 4.09 | 0 | 4.61 | 4.61 | 0 | 5.14 | 5.13 | -0.01 | 5.39 | 5.39 | 0 | 6.33 | 6.31 | -0.02 | |
| 201300 | 2.9 | 2.9 | 0 | 3.61 | 3.61 | 0 | 3.84 | 3.84 | 0 | 3.94 | 3.94 | 0 | 4.41 | 4.4 | -0.01 | |
| 201310 | 3.04 | 3.04 | 0 | 3.69 | 3.69 | 0 | 3.87 | 3.87 | 0 | 3.95 | 3.95 | 0 | 4.4 | 4.4 | 0 | |
| 201400 | 2.04 | 2.04 | 0 | 2.46 | 2.46 | 0 | 2.67 | 2.67 | 0 | 2.77 | 2.77 | 0 | 3.23 | 3.23 | 0 | |
| 201410 | 2.14 | 2.14 | 0 | 2.57 | 2.57 | 0 | 2.78 | 2.78 | 0 | 2.87 | 2.87 | 0 | 3.32 | 3.32 | 0 | |
| 201420 | 3.23 | 3.23 | 0 | 4 | 4 | 0 | 4.3 | 4.3 | 0 | 4.43 | 4.43 | 0 | 5.02 | 5.02 | 0 | |
| 201430 | 4.37 | 4.37 | 0 | 5.15 | 5.15 | 0 | 5.48 | 5.48 | 0 | 5.7 | 5.69 | -0.01 | 6.48 | 6.48 | 0 | |
| 201440 | 5.68 | 5.68 | 0 | 6.04 | 6.04 | 0 | 6.21 | 6.21 | 0 | 6.27 | 6.27 | 0 | 6.51 | 6.51 | 0 | |
| 201450 | 4.69 | 4.69 | 0 | 5.64 | 5.64 | 0 | 6.12 | 6.12 | 0 | 6.38 | 6.38 | 0 | 7.7 | 7.7 | 0 | |
| 201460 | 4.7 | 4.7 | 0 | 5.86 | 5.86 | 0 | 7.19 | 7.18 | -0.01 | 7.59 | 7.59 | 0 | 9.05 | 9.05 | 0 | |
| 201470 | 3.19 | 3.19 | 0 | 5.64 | 5.64 | 0 | 6.12 | 6.12 | 0 | 6.38 | 6.38 | 0 | 7.7 | 7.7 | 0 | |
| 201480 | 4.05 | 4.05 | 0 | 5.64 | 5.64 | 0 | 6.12 | 6.12 | 0 | 6.38 | 6.38 | 0 | 7.7 | 7.7 | 0 | |
| 201490 | 4.7 | 4.7 | 0 | 5.64 | 5.64 | 0 | 6.12 | 6.12 | 0 | 6.38 | 6.38 | 0 | 7.7 | 7.7 | 0 | |
| 201500 | 6.08 | 6.08 | 0 | 6.31 | 6.31 | 0 | 6.43 | 6.43 | 0 | 6.49 | 6.49 | 0 | 7.81 | 7.81 | 0 | |
| 201510 | 3.43 | 3.43 | 0 | 4.23 | 4.23 | 0 | 6.12 | 6.12 | 0 | 6.38 | 6.38 | 0 | 7.7 | 7.7 | 0 | |
| 201600 | 5.66 | 5.66 | 0 | 6.34 | 6.34 | 0 | 6.52 | 6.52 | 0 | 6.6 | 6.6 | 0 | 7.84 | 7.84 | 0 | |
| 201610 | 5.8 | 5.8 | 0 | 6.37 | 6.37 | 0 | 6.54 | 6.54 | 0 | 6.61 | 6.61 | 0 | 7.84 | 7.84 | 0 | |
| 201620 | 6.32 | 6.32 | 0 | 6.59 | 6.59 | 0 | 6.75 | 6.75 | 0 | 6.83 | 6.83 | 0 | 7.84 | 7.84 | 0 | |
| 201630 | 5.42 | 5.42 | 0 | 6.02 | 6.02 | 0 | 6.24 | 6.24 | 0 | 6.51 | 6.51 | 0 | 7.84 | 7.84 | 0 | |
| 201640 | 6.39 | 6.39 | 0 | 6.68 | 6.68 | 0 | 6.83 | 6.83 | 0 | 6.91 | 6.91 | 0 | 7.84 | 7.84 | 0 | |
| 201650 | 6.39 | 6.39 | 0 | 6.68 | 6.68 | 0 | 6.83 | 6.83 | 0 | 6.91 | 6.91 | 0 | 7.84 | 7.84 | 0 | |
| 201660 | 6.15 | 6.15 | 0 | 7.05 | 7.05 | 0 | 7.5 | 7.5 | 0 | 7.93 | 7.93 | 0 | 9.76 | 9.76 | 0 | |
| 201670 | 6.59 | 6.59 | 0 | 7.09 | 7.09 | 0 | 7.5 | 7.5 | 0 | 7.93 | 7.93 | 0 | 9.76 | 9.76 | 0 | |
| 201700 | 8.98 | 8.98 | 0 | 9.37 | 9.37 | 0 | 9.68 | 9.68 | 0 | 9.81 | 9.81 | 0 | 10.3 | 10.3 | 0 | |
| 201710 | 9 | 9 | 0 | 9.37 | 9.37 | 0 | 9.51 | 9.51 | 0 | 9.59 | 9.59 | 0 | 9.93 | 9.93 | 0 | |
| 201720 | 9.57 | 9.57 | 0 | 10.06 | 10.06 | 0 | 10.48 | 10.48 | 0 | 10.7 | 10.7 | 0 | 11.43 | 11.43 | 0 | |
| 201730 | 9.57 | 9.57 | 0 | 10.06 | 10.06 | 0 | 10.48 | 10.48 | 0 | 10.7 | 10.7 | 0 | 11.43 | 11.43 | 0 | |
| 201740 | 9.57 | 9.57 | 0 | 9.96 | 9.96 | 0 | 10.22 | 10.22 | 0 | 10.34 | 10.34 | 0 | 10.8 | 10.8 | 0 | |
| 201750 | 9.57 | 9.57 | 0 | 9.96 | 9.96 | 0 | 10.22 | 10.22 | 0 | 10.33 | 10.33 | 0 | 10.78 | 10.78 | 0 | |
| 201760 | 10.11 | 10.11 | 0 | 10.78 | 10.78 | 0 | 11.12 | 11.12 | 0 | 11.28 | 11.28 | 0 | 12.02 | 12.02 | 0 | |
| 201770 | 10.13 | 10.13 | 0 | 10.83 | 10.83 | 0 | 11.18 | 11.18 | 0 | 11.34 | 11.34 | 0 | 12.02 | 12.02 | 0 | |
| 201780 | 10.1 | 10.1 | 0 | 10.72 | 10.72 | 0 | 11.07 | 11.07 | 0 | 11.23 | 11.23 | 0 | 11.94 | 11.94 | 0 | |
| 201900 | 9.57 | 9.57 | 0 | 10.06 | 10.06 | 0 | 10.48 | 10.48 | 0 | 10.7 | 10.7 | 0 | 11.43 | 11.43 | 0 | |
| 201910 | 9.59 | 9.59 | 0 | 10.09 | 10.09 | 0 | 10.53 | 10.53 | 0 | 10.75 | 10.75 | 0 | 11.47 | 11.48 | 0.01 | |
| 201920 | 10.17 | 10.17 | 0 | 10.8 | 10.8 | 0 | 10.98 | 10.98 | 0 | 11.05 | 11.05 | 0 | 11.51 | 11.51 | 0 | |
| 201930 | 11.34 | 11.34 | 0 | 12.36 | 12.36 | 0 | 12.51 | 12.51 | 0 | 12.57 | 12.57 | 0 | 12.82 | 12.82 | 0 | |
| 201940 | 11.92 | 11.92 | 0 | 12.47 | 12.47 | 0 | 12.59 | 12.59 | 0 | 12.64 | 12.64 | 0 | 12.86 | 12.86 | 0 | |
| 201950 | 10.93 | 10.93 | 0 | 11.38 | 11.38 | 0 | 11.65 | 11.65 | 0 | 11.79 | 11.79 | 0 | 12.36 | 12.36 | 0 | |
| 201952 | 12.48 | 12.48 | 0 | 12.88 | 12.88 | 0 | 12.99 | 12.99 | 0 | 13 | 13 | 0 | 13.07 | 13.07 | 0 | |
| 201954 | 13.7 | 13.7 | 0 | 13.92 | 13.92 | 0 | 14.01 | 14.01 | 0 | 14.06 | 14.06 | 0 | 14.39 | 14.39 | 0 | |
| 201960 | 12.49 | 12.49 | 0 | 12.9 | 12.9 | 0 | 13.08 | 13.08 | 0 | 13.13 | 13.13 | 0 | 13.31 | 13.31 | 0 | |
| 201970 | 12.49 | 12.49 | 0 | 12.91 | 12.91 | 0 | 13.1 | 13.1 | 0 | 13.15 | 13.15 | 0 | 13.34 | 13.34 | 0 | |
| 201980 | 12.58 | 12.58 | 0 | 13.05 | 13.05 | 0 | 13.23 | 13.23 | 0 | 13.3 | 13.3 | 0 | 13.64 | 13.64 | 0 | |
| 202010 | 4.13 | 4.13 | 0 | 4.79 | 4.79 | 0 | 5.07 | 5.07 | 0 | 5.17 | 5.17 | 0 | 5.61 | 5.61 | 0 | |
| 202110 | 2 | 2 | 0 | 2.4 | 2.4 | 0 | 2.6 | 2.6 | 0 | 2.69 | 2.69 | 0 | 3.15 | 3.15 | 0 | |
| 210010 | 2.49 | 2.5 | 0.01 | 3.17 | 3.19 | 0.02 | 3.43 | 3.45 | 0.02 | 3.54 | 3.56 | 0.02 | 4.02 | 4.08 | 0.06 | |
| 210020 | 2.92 | 2.94 | 0.02 | 3.75 | 3.77 | 0.02 | 4.06 | 4.08 | 0.02 | 4.19 | 4.21 | 0.02 | 4.72 | 4.77 | 0.05 | |
| 210028 | 4.67 | 4.69 | 0.02 | 5.62 | 5.64 | 0.02 | 5.96 | 5.98 | 0.02 | 6.1 | 6.13 | 0.03 | 6.7 | 6.77 | 0.07 | |
| 210030 | 4.73 | 4.75 | 0.02 | 5.73 | 5.76 | 0.03 | 6.1 | 6.13 | 0.03 | 6.26 | 6.29 | 0.03 | 6.92 | 7 | 0.08 | |
| 210040 | 5.84 | 5.74 | -0.1 | 7.06 | 6.96 | -0.1 | 7.46 | 7.36 | -0.1 | 7.63 | 7.54 | -0.09 | 8.35 | 8.36 | 0.01 | |
| 210050 | 6 | 5.93 | -0.07 | 7.4 | 7.37 | -0.03 | 7.87 | 7.86 | -0.01 | 8.09 | 8.08 | -0.01 | 8.98 | 9 | 0.02 | |
| 210060 | 6.72 | 6.69 | -0.03 | 8.48 | 8.46 | -0.02 | 9.04 | 9.02 | -0.02 | 9.28 | 9.25 | -0.03 | 10.17 | 10.11 | -0.06 | |
| 210070 | 6.87 | 6.85 | -0.02 | 8.87 | 8.86 | -0.01 | 9.5 | 9.48 | -0.02 | 9.76 | 9.74 | -0.02 | 10.74 | 10.7 | -0.04 | |
| 210080 | 6.94 | 6.93 | -0.01 | 8.97 | 8.96 | -0.01 | 9.6 | 9.58 | -0.02 | 9.86 | 9.84 | -0.02 | 10.85 | | | |

Summary of Corrected and Revised Stages for Bridge Culvert

| Node | 2.33YR24HR | | | 25YR24HR | | | 50YR24HR | | | 100YR24HR | | | 500YR24HR | | | Notes |
|--------|--------------------------------|---------------------|-----------------|--------------------------------|---------------------|-----------------|--------------------------------|---------------------|-----------------|--------------------------------|---------------------|-----------------|--------------------------------|---------------------|-----------------|----------------------|
| | Corrected Effective Stage (ft) | Proposed Stage (ft) | Difference (ft) | Corrected Effective Stage (ft) | Proposed Stage (ft) | Difference (ft) | Corrected Effective Stage (ft) | Proposed Stage (ft) | Difference (ft) | Corrected Effective Stage (ft) | Proposed Stage (ft) | Difference (ft) | Corrected Effective Stage (ft) | Proposed Stage (ft) | Difference (ft) | |
| 210090 | 6.95 | 6.94 | -0.01 | 8.98 | 8.97 | -0.01 | 9.6 | 9.59 | -0.01 | 9.86 | 9.85 | -0.01 | 10.85 | 10.82 | -0.03 | |
| 210100 | 7.28 | 7.27 | -0.01 | 9.33 | 9.32 | -0.01 | 9.94 | 9.93 | -0.01 | 10.2 | 10.19 | -0.01 | 11.19 | 11.17 | -0.02 | |
| 210110 | 7.35 | 7.35 | 0 | 9.52 | 9.51 | -0.01 | 10.15 | 10.14 | -0.01 | 10.42 | 10.41 | -0.01 | 11.47 | 11.46 | -0.01 | |
| 210120 | 7.96 | 7.96 | 0 | 10.08 | 10.07 | -0.01 | 10.7 | 10.7 | 0 | 10.96 | 10.96 | 0 | 12.03 | 12.02 | -0.01 | |
| 210130 | 8.05 | 8.06 | 0.01 | 10.17 | 10.17 | 0 | 10.8 | 10.8 | 0 | 11.05 | 11.05 | 0 | 12.12 | 12.11 | -0.01 | |
| 210140 | 8.23 | 8.24 | 0.01 | 10.38 | 10.38 | 0 | 11 | 11 | 0 | 11.25 | 11.25 | 0 | 12.31 | 12.31 | 0 | |
| 210150 | 8.46 | 8.47 | 0.01 | 10.82 | 10.82 | 0 | 11.48 | 11.48 | 0 | 11.73 | 11.73 | 0 | 12.73 | 12.73 | 0 | |
| 210160 | 9.1 | 9.1 | 0 | 11.38 | 11.38 | 0 | 12.03 | 12.03 | 0 | 12.26 | 12.26 | 0 | 13.15 | 13.15 | 0 | |
| 210170 | 10.2 | 10.2 | 0 | 12.19 | 12.19 | 0 | 12.81 | 12.81 | 0 | 13.03 | 13.03 | 0 | 13.83 | 13.83 | 0 | |
| 210180 | 11.02 | 11.02 | 0 | 13.46 | 13.46 | 0 | 14.34 | 14.34 | 0 | 14.66 | 14.66 | 0 | 15.88 | 15.88 | 0 | |
| 210185 | 11.87 | 11.87 | 0 | 13.98 | 13.98 | 0 | 14.78 | 14.78 | 0 | 15.07 | 15.07 | 0 | 16.2 | 16.2 | 0 | |
| 210190 | 12.96 | 12.96 | 0 | 14.76 | 14.76 | 0 | 15.43 | 15.43 | 0 | 15.68 | 15.68 | 0 | 16.67 | 16.67 | 0 | |
| 210200 | 13.08 | 13.08 | 0 | 14.95 | 14.95 | 0 | 15.69 | 15.69 | 0 | 15.97 | 15.97 | 0 | 17.11 | 17.11 | 0 | |
| 210210 | 14.25 | 14.25 | 0 | 16.21 | 16.21 | 0 | 16.87 | 16.87 | 0 | 17.13 | 17.13 | 0 | 18.15 | 18.15 | 0 | |
| 210220 | 14.46 | 14.46 | 0 | 16.71 | 16.71 | 0 | 17.58 | 17.58 | 0 | 17.94 | 17.94 | 0 | 19.4 | 19.4 | 0 | |
| 210230 | 15.59 | 15.59 | 0 | 17.66 | 17.66 | 0 | 18.38 | 18.38 | 0 | 18.68 | 18.68 | 0 | 19.95 | 19.95 | 0 | |
| 210240 | 16.22 | 16.22 | 0 | 18.36 | 18.36 | 0 | 19.05 | 19.05 | 0 | 19.32 | 19.32 | 0 | 20.48 | 20.48 | 0 | |
| 210250 | 17.41 | 17.41 | 0 | 19.52 | 19.52 | 0 | 20.15 | 20.15 | 0 | 20.4 | 20.4 | 0 | 21.45 | 21.45 | 0 | |
| 210260 | 18.25 | 18.25 | 0 | 20.39 | 20.39 | 0 | 21.04 | 21.04 | 0 | 21.3 | 21.3 | 0 | 22.46 | 22.46 | 0 | |
| 210270 | 18.27 | 18.27 | 0 | 20.42 | 20.42 | 0 | 21.07 | 21.07 | 0 | 21.34 | 21.34 | 0 | 22.5 | 22.5 | 0 | |
| 210280 | 19.54 | 19.54 | 0 | 21.61 | 21.61 | 0 | 22.28 | 22.28 | 0 | 22.58 | 22.58 | 0 | 23.93 | 23.93 | 0 | |
| 210290 | 19.71 | 19.71 | 0 | 21.74 | 21.74 | 0 | 22.43 | 22.43 | 0 | 22.74 | 22.74 | 0 | 24.13 | 24.13 | 0 | |
| 210300 | 20.06 | 20.06 | 0 | 21.96 | 21.96 | 0 | 22.67 | 22.67 | 0 | 22.99 | 22.99 | 0 | 24.42 | 24.42 | 0 | |
| 210310 | 21.05 | 21.05 | 0 | 22.65 | 22.65 | 0 | 23.42 | 23.42 | 0 | 23.76 | 23.76 | 0 | 25.21 | 25.21 | 0 | |
| 210320 | 21.08 | 21.08 | 0 | 22.69 | 22.69 | 0 | 23.46 | 23.46 | 0 | 23.81 | 23.81 | 0 | 25.31 | 25.31 | 0 | |
| 210330 | 21.46 | 21.46 | 0 | 22.92 | 22.92 | 0 | 23.63 | 23.63 | 0 | 23.95 | 23.95 | 0 | 25.41 | 25.41 | 0 | |
| 210340 | 23.14 | 23.14 | 0 | 24.31 | 24.31 | 0 | 24.87 | 24.87 | 0 | 25.15 | 25.15 | 0 | 26.38 | 26.38 | 0 | |
| 210350 | 23.8 | 23.8 | 0 | 25.12 | 25.12 | 0 | 25.73 | 25.73 | 0 | 26 | 26 | 0 | 27.15 | 27.15 | 0 | |
| 210360 | 24.89 | 24.89 | 0 | 26.25 | 26.25 | 0 | 26.81 | 26.81 | 0 | 27.09 | 27.09 | 0 | 28.27 | 28.27 | 0 | |
| 210370 | 25.03 | 25.03 | 0 | 26.43 | 26.43 | 0 | 27.01 | 27.01 | 0 | 27.3 | 27.3 | 0 | 28.48 | 28.48 | 0 | |
| 210380 | 25.03 | 25.03 | 0 | 26.43 | 26.43 | 0 | 27.03 | 27.03 | 0 | 27.31 | 27.31 | 0 | 28.51 | 28.51 | 0 | |
| 210390 | 25.12 | 25.12 | 0 | 26.58 | 26.58 | 0 | 27.19 | 27.19 | 0 | 27.49 | 27.49 | 0 | 28.7 | 28.7 | 0 | |
| 210400 | 26.22 | 26.22 | 0 | 27.86 | 27.86 | 0 | 28.44 | 28.44 | 0 | 28.7 | 28.7 | 0 | 29.67 | 29.67 | 0 | |
| 210410 | 26.22 | 26.22 | 0 | 27.87 | 27.87 | 0 | 28.46 | 28.46 | 0 | 28.72 | 28.72 | 0 | 29.7 | 29.7 | 0 | |
| 210420 | 26.26 | 26.26 | 0 | 27.91 | 27.91 | 0 | 28.49 | 28.49 | 0 | 28.75 | 28.75 | 0 | 29.73 | 29.73 | 0 | |
| 210430 | 26.45 | 26.45 | 0 | 28.38 | 28.38 | 0 | 29.11 | 29.11 | 0 | 29.46 | 29.46 | 0 | 30.76 | 30.76 | 0 | |
| 210450 | 26.64 | 26.64 | 0 | 28.53 | 28.53 | 0 | 29.24 | 29.24 | 0 | 29.58 | 29.58 | 0 | 30.83 | 30.83 | 0 | |
| 210460 | 26.74 | 26.74 | 0 | 28.57 | 28.57 | 0 | 29.27 | 29.27 | 0 | 29.6 | 29.6 | 0 | 30.85 | 30.85 | 0 | |
| 210470 | 26.96 | 26.96 | 0 | 28.74 | 28.74 | 0 | 29.42 | 29.42 | 0 | 29.73 | 29.73 | 0 | 30.93 | 30.93 | 0 | |
| 210480 | 27.22 | 27.22 | 0 | 28.9 | 28.9 | 0 | 29.52 | 29.52 | 0 | 29.8 | 29.8 | 0 | 30.95 | 30.95 | 0 | |
| 210490 | 27.32 | 27.32 | 0 | 29.03 | 29.03 | 0 | 29.63 | 29.63 | 0 | 29.88 | 29.88 | 0 | 31 | 31 | 0 | |
| 210500 | 27.46 | 27.46 | 0 | 29.16 | 29.16 | 0 | 29.76 | 29.76 | 0 | 30 | 30 | 0 | 31.08 | 31.08 | 0 | |
| 210510 | 27.51 | 27.51 | 0 | 29.36 | 29.36 | 0 | 30.03 | 30.03 | 0 | 30.29 | 30.29 | 0 | 31.44 | 31.44 | 0 | |
| 210520 | 27.58 | 27.58 | 0 | 29.45 | 29.45 | 0 | 30.11 | 30.11 | 0 | 30.34 | 30.34 | 0 | 31.47 | 31.47 | 0 | |
| 210530 | 28.86 | 28.86 | 0 | 29.8 | 29.8 | 0 | 30.6 | 30.6 | 0 | 30.97 | 30.97 | 0 | 33.92 | 33.92 | 0 | |
| 210540 | 28.89 | 28.89 | 0 | 29.91 | 29.91 | 0 | 30.82 | 30.82 | 0 | 31.24 | 31.24 | 0 | 35.32 | 35.32 | 0 | |
| 210550 | 35.41 | 35.41 | 0 | 36.56 | 36.56 | 0 | 37.14 | 37.14 | 0 | 37.42 | 37.42 | 0 | 38.61 | 38.61 | 0 | |
| 210560 | 35.41 | 35.41 | 0 | 36.58 | 36.58 | 0 | 37.2 | 37.2 | 0 | 37.51 | 37.51 | 0 | 39.12 | 39.12 | 0 | |
| 210570 | 35.41 | 35.41 | 0 | 36.67 | 36.67 | 0 | 37.61 | 37.61 | 0 | 38.07 | 38.07 | 0 | 40.51 | 40.51 | 0 | |
| 210580 | 35.42 | 35.42 | 0 | 36.74 | 36.74 | 0 | 37.7 | 37.7 | 0 | 38.16 | 38.16 | 0 | 40.7 | 40.7 | 0 | |
| 210590 | 35.46 | 35.46 | 0 | 36.65 | 36.65 | 0 | 37.43 | 37.43 | 0 | 37.78 | 37.78 | 0 | 39.38 | 39.38 | 0 | |
| 210600 | 35.83 | 35.83 | 0 | 36.82 | 36.82 | 0 | 37.57 | 37.57 | 0 | 37.94 | 37.94 | 0 | 39.61 | 39.61 | 0 | |
| 210610 | 35.83 | 35.83 | 0 | 36.82 | 36.82 | 0 | 37.57 | 37.57 | 0 | 37.93 | 37.93 | 0 | 39.98 | 39.98 | 0 | |
| 210620 | 34.28 | 34.28 | 0 | 35.98 | 35.98 | 0 | 37.49 | 37.49 | 0 | 38.07 | 38.07 | 0 | 39.98 | 39.98 | 0 | |
| 210630 | 38.9 | 38.9 | 0 | 39.78 | 39.78 | 0 | 40.54 | 40.54 | 0 | 41.14 | 41.14 | 0 | 43.7 | 43.7 | 0 | |
| 210640 | 41.52 | 41.52 | 0 | 42.32 | 42.32 | 0 | 43.2 | 43.2 | 0 | 43.53 | 43.53 | 0 | 46.44 | 46.44 | 0 | |
| 210650 | 50.13 | 50.13 | 0 | 52.83 | 52.83 | 0 | 53.07 | 53.07 | 0 | 53.14 | 53.14 | 0 | 53.7 | 53.7 | 0 | |
| 210660 | 53.88 | 53.88 | 0 | 54.41 | 54.41 | 0 | 54.67 | 54.67 | 0 | 54.85 | 54.85 | 0 | 55.48 | 55.48 | 0 | |
| 210670 | 53.88 | 53.88 | 0 | 54.41 | 54.41 | 0 | 54.68 | 54.68 | 0 | 54.86 | 54.86 | 0 | 55.53 | 55.53 | 0 | |
| 210680 | 53.88 | 53.88 | 0 | 54.48 | 54.48 | 0 | 54.73 | 54.73 | 0 | 54.88 | 54.88 | 0 | 55.61 | 55.61 | 0 | |
| 210700 | 2.95 | 2.96 | 0.01 | 3.8 | 3.82 | 0.02 | 4.1 | 4.12 | 0.02 | 4.23 | 4.25 | 0.02 | 4.76 | 4.81 | 0.05 | |
| 210710 | 2.98 | 2.99 | 0.01 | 3.88 | 3.89 | 0.01 | 4.16 | 4.18 | 0.02 | 4.28 | 4.3 | 0.02 | 4.8 | 4.85 | 0.05 | |
| 210720 | 3.09 | 3.1 | 0.01 | 4.03 | 4.05 | 0.02 | 4.31 | 4.32 | 0.01 | 4.42 | 4.44 | 0.02 | 4.92 | 4.97 | 0.05 | |
| 210730 | 3.18 | 3.19 | 0.01 | 4.39 | 4.41 | 0.02 | 4.75 | 4.77 | 0.02 | 4.9 | 4.92 | 0.02 | 5.57 | 5.62 | 0.05 | |
| 210740 | 3.84 | 3.84 | 0 | 4.94 | 4.95 | 0.01 | 5.22 | 5.24 | 0.02 | 5.35 | 5.36 | 0.01 | 5.9 | 5.94 | 0.04 | |
| 210750 | 4.01 | 4.01 | 0 | 5.44 | 5.47 | 0.03 | 5.84 | 5.87 | 0.03 | 6.02 | 6.04 | 0.02 | 6.74 | 6.81 | 0.07 | |
| 210760 | 4.19 | 4.14 | -0.05 | 5.43 | 5.46 | 0.03 | 5.81 | 5.84 | 0.03 | 5.98 | 6.01 | 0.03 | 6.69 | 6.76 | 0.07 | |
| 210770 | 4.31 | 4.25 | -0.06 | 5.41 | 5.43 | 0.02 | 5.7 | 5.72 | 0.02 | 5.82 | 5.84 | 0.02 | 6.29 | 6.29 | 0 | |
| 210780 | 4.78 | 4.76 | -0.02 | 5.39 | 5.4 | 0.01 | 5.61 | 5.62 | 0.01 | 5.7 | 5.71 | 0.01 | 6.1 | 6.07 | -0.03 | |
| 210790 | 4.79 | 4.77 | -0.02 | 5.38 | 5.4 | 0.02 | 5.6 | 5.61 | 0.01 | 5.68 | 5.69 | 0.01 | 6.06 | 6.06 | 0 | |
| 210800 | 4.86 | 4.83 | -0.03 | 5.41 | 5.41 | 0 | 5.6 | 5.6 | 0 | 5.68 | 5.68 | 0 | 6.06 | 6.07 | 0.01 | |
| 210810 | 4.19 | 4.3 | 0.11 | 5.72 | 5.74 | 0.02 | 6.1 | 6.12 | 0.02 | 6.26 | 6.28 | 0.02 | 6.92 | 6.99 | 0.07 | Within Channel Banks |
| 210900 | 6 | 5.93 | -0.07 | 7.4 | 7.37 | -0.03 | 7.87 | 7.86 | -0.01 | 8.09 | 8.08 | -0.01 | 9.05 | 8.95 | -0.1 | |
| 210910 | 7.11 | 6.31 | -0.8 | 7.45 | 7.31 | -0.14 | 7.89 | 7.84 | -0.05 | 8.12 | 8.08 | -0.04 | 9.06 | 8.96 | -0.1 | |
| 210920 | 7.13 | 6.32 | -0.81 | 7.48 | 7.28 | -0.2 | 7.91 | 7.82 | -0.09 | 8.17 | 8.09 | -0.08 | 9.15 | 9.08 | -0.07 | |
| 210930 | 7.16 | 6.57 | -0.59 | 7.51 | 7.21 | -0.3 | 7.91 | 7.79 | -0.12 | 8.17 | 8.07 | -0.1 | 9.14 | 9.07 | -0.07 | |
| 210940 | 7.19 | 6.6 | -0.59 | 7.61 | 7.12 | -0.49 | 7.94 | 7.63 | -0.31 | 8.15 | 7.86 | -0.29 | 8.96 | 8.79 | -0.17 | |
| 210950 | 7.2 | 6.6 | -0.6 | 7.63 | 7.1 | -0.53 | 7.95 | 7.59 | -0.36 | 8.15 | 7.81 | -0.34 | 8.92 | 8.72 | -0.2 | |
| 210960 | 7.26 | 6.62 | -0.64 | 7.75 | 7.13 | -0.62 | 8.01 | 7.43 | -0.58 | 8.17 | 7.61 | -0.56 | 8.74 | 8.42 | -0.32 | |
| 210970 | 7.26 | 6.62 | -0.64 | 7.75 | 7.13 | -0.62 | 8.01 | 7.43 | -0.58 | 8.17 | 7.61 | -0.56 | 8.74 | 8.42 | -0.32 | |
| 2109 | | | | | | | | | | | | | | | | |

Summary of Corrected and Revised Stages for Bridge Culvert

| Node | 2.33YR24HR | | | 25YR24HR | | | 50YR24HR | | | 100YR24HR | | | 500YR24HR | | | Notes |
|--------|--------------------------------|---------------------|-----------------|--------------------------------|---------------------|-----------------|--------------------------------|---------------------|-----------------|--------------------------------|---------------------|-----------------|--------------------------------|---------------------|-----------------|-------|
| | Corrected Effective Stage (ft) | Proposed Stage (ft) | Difference (ft) | Corrected Effective Stage (ft) | Proposed Stage (ft) | Difference (ft) | Corrected Effective Stage (ft) | Proposed Stage (ft) | Difference (ft) | Corrected Effective Stage (ft) | Proposed Stage (ft) | Difference (ft) | Corrected Effective Stage (ft) | Proposed Stage (ft) | Difference (ft) | |
| 211060 | 11.21 | 11.21 | 0 | 11.91 | 11.91 | 0 | 12.2 | 12.2 | 0 | 12.32 | 12.32 | 0 | 12.77 | 12.77 | 0 | |
| 211070 | 8.46 | 8.46 | 0 | 9.34 | 9.34 | 0 | 10.07 | 10.06 | -0.01 | 10.35 | 10.35 | 0 | 11.42 | 11.4 | -0.02 | |
| 211080 | 8.97 | 8.97 | 0 | 9.28 | 9.28 | 0 | 9.51 | 9.5 | -0.01 | 9.76 | 9.75 | -0.01 | 10.72 | 10.69 | -0.03 | |
| 211100 | 8.41 | 8.41 | 0 | 9.33 | 9.33 | 0 | 9.94 | 9.93 | -0.01 | 10.2 | 10.19 | -0.01 | 11.19 | 11.17 | -0.02 | |
| 211110 | 8.64 | 8.64 | 0 | 8.94 | 8.93 | -0.01 | 9.56 | 9.55 | -0.01 | 9.82 | 9.81 | -0.01 | 10.81 | 10.78 | -0.03 | |
| 211120 | 9.88 | 9.88 | 0 | 10.39 | 10.39 | 0 | 10.62 | 10.62 | 0 | 10.73 | 10.73 | 0 | 11.21 | 11.21 | 0 | |
| 211130 | 9.36 | 9.36 | 0 | 10.57 | 10.57 | 0 | 10.71 | 10.71 | 0 | 10.77 | 10.77 | 0 | 11.47 | 11.46 | -0.01 | |
| 211140 | 6.87 | 6.85 | -0.02 | 8.3 | 8.29 | -0.01 | 8.6 | 8.6 | 0 | 8.73 | 8.72 | -0.01 | 9.39 | 9.39 | 0 | |
| 211200 | 8.49 | 8.49 | 0 | 10.16 | 10.16 | 0 | 10.7 | 10.7 | 0 | 10.92 | 10.91 | -0.01 | 11.83 | 11.83 | 0 | |
| 211210 | 9.84 | 9.84 | 0 | 10.45 | 10.45 | 0 | 10.73 | 10.73 | 0 | 10.86 | 10.86 | 0 | 11.36 | 11.36 | 0 | |
| 211220 | 10.79 | 10.79 | 0 | 11.21 | 11.21 | 0 | 11.49 | 11.49 | 0 | 11.71 | 11.71 | 0 | 12.45 | 12.45 | 0 | |
| 211230 | 11.79 | 11.79 | 0 | 12.07 | 12.07 | 0 | 12.18 | 12.18 | 0 | 12.23 | 12.23 | 0 | 12.48 | 12.48 | 0 | |
| 211300 | 7.99 | 8 | 0.01 | 10.11 | 10.11 | 0 | 10.74 | 10.74 | 0 | 11.01 | 11 | -0.01 | 12.08 | 12.08 | 0 | |
| 211310 | 8 | 8.01 | 0.01 | 10.13 | 10.13 | 0 | 10.79 | 10.79 | 0 | 11.06 | 11.06 | 0 | 12.15 | 12.15 | 0 | |
| 211320 | 8.04 | 8.05 | 0.01 | 10.17 | 10.17 | 0 | 10.83 | 10.83 | 0 | 11.11 | 11.11 | 0 | 12.21 | 12.21 | 0 | |
| 211330 | 8.12 | 8.12 | 0 | 10.2 | 10.2 | 0 | 10.87 | 10.87 | 0 | 11.15 | 11.15 | 0 | 12.26 | 12.26 | 0 | |
| 211340 | 8.83 | 8.83 | 0 | 10.31 | 10.31 | 0 | 10.97 | 10.96 | -0.01 | 11.24 | 11.24 | 0 | 12.35 | 12.35 | 0 | |
| 211350 | 9.14 | 9.15 | 0.01 | 10.51 | 10.51 | 0 | 11.18 | 11.18 | 0 | 11.46 | 11.46 | 0 | 12.58 | 12.58 | 0 | |
| 211360 | 10.35 | 10.35 | 0 | 11.75 | 11.75 | 0 | 12.52 | 12.52 | 0 | 12.81 | 12.81 | 0 | 13.86 | 13.86 | 0 | |
| 211370 | 10.8 | 10.8 | 0 | 12.51 | 12.51 | 0 | 13.16 | 13.16 | 0 | 13.44 | 13.44 | 0 | 14.48 | 14.48 | 0 | |
| 211380 | 12.8 | 12.8 | 0 | 13.89 | 13.89 | 0 | 14.32 | 14.32 | 0 | 14.5 | 14.5 | 0 | 15.33 | 15.33 | 0 | |
| 211390 | 12.9 | 12.9 | 0 | 14.15 | 14.15 | 0 | 14.64 | 14.64 | 0 | 14.83 | 14.83 | 0 | 15.62 | 15.62 | 0 | |
| 211400 | 13.53 | 13.53 | 0 | 14.83 | 14.83 | 0 | 15.32 | 15.32 | 0 | 15.5 | 15.5 | 0 | 16.19 | 16.19 | 0 | |
| 211410 | 13.78 | 13.78 | 0 | 15.04 | 15.04 | 0 | 15.56 | 15.56 | 0 | 15.74 | 15.74 | 0 | 16.44 | 16.44 | 0 | |
| 211420 | 14.07 | 14.07 | 0 | 15.37 | 15.37 | 0 | 15.91 | 15.91 | 0 | 16.09 | 16.09 | 0 | 16.79 | 16.79 | 0 | |
| 211430 | 14.49 | 14.49 | 0 | 15.9 | 15.9 | 0 | 16.24 | 16.24 | 0 | 16.39 | 16.39 | 0 | 16.97 | 16.97 | 0 | |
| 211440 | 14.54 | 14.54 | 0 | 15.92 | 15.92 | 0 | 16.27 | 16.27 | 0 | 16.42 | 16.42 | 0 | 17.03 | 17.03 | 0 | |
| 211450 | 14.54 | 14.54 | 0 | 15.92 | 15.92 | 0 | 16.27 | 16.27 | 0 | 16.42 | 16.42 | 0 | 17.03 | 17.03 | 0 | |
| 211460 | 8.02 | 8.02 | 0 | 10.16 | 10.16 | 0 | 10.81 | 10.81 | 0 | 11.08 | 11.08 | 0 | 12.16 | 12.16 | 0 | |
| 211470 | 8.03 | 8.03 | 0 | 10.31 | 10.31 | 0 | 11.05 | 11.05 | 0 | 11.32 | 11.32 | 0 | 12.34 | 12.34 | 0 | |
| 211475 | 11.87 | 11.87 | 0 | 12.51 | 12.51 | 0 | 12.59 | 12.59 | 0 | 12.62 | 12.62 | 0 | 12.88 | 12.88 | 0 | |
| 211480 | 8.06 | 8.06 | 0 | 10.78 | 10.78 | 0 | 11.53 | 11.53 | 0 | 11.76 | 11.76 | 0 | 12.68 | 12.68 | 0 | |
| 211490 | 11.25 | 11.25 | 0 | 12 | 12 | 0 | 12.28 | 12.28 | 0 | 12.4 | 12.4 | 0 | 12.92 | 12.92 | 0 | |
| 211500 | 11.26 | 11.26 | 0 | 12 | 12 | 0 | 12.28 | 12.28 | 0 | 12.4 | 12.4 | 0 | 12.92 | 12.92 | 0 | |
| 211510 | 11.78 | 11.78 | 0 | 12.15 | 12.15 | 0 | 12.35 | 12.35 | 0 | 12.44 | 12.44 | 0 | 13.16 | 13.16 | 0 | |
| 211520 | 12.52 | 12.52 | 0 | 12.8 | 12.8 | 0 | 12.93 | 12.93 | 0 | 13 | 13 | 0 | 13.22 | 13.22 | 0 | |
| 211530 | 12.51 | 12.51 | 0 | 12.63 | 12.63 | 0 | 12.71 | 12.71 | 0 | 12.75 | 12.75 | 0 | 12.87 | 12.87 | 0 | |
| 211540 | 8.01 | 8.01 | 0 | 10.14 | 10.14 | 0 | 10.8 | 10.8 | 0 | 11.07 | 11.07 | 0 | 12.16 | 12.16 | 0 | |
| 211550 | 8.01 | 8.01 | 0 | 10.14 | 10.14 | 0 | 10.8 | 10.8 | 0 | 11.08 | 11.08 | 0 | 12.17 | 12.17 | 0 | |
| 211560 | 8.04 | 8.04 | 0 | 10.16 | 10.16 | 0 | 10.85 | 10.85 | 0 | 11.13 | 11.12 | -0.01 | 12.22 | 12.22 | 0 | |
| 211570 | 8.06 | 8.07 | 0.01 | 10.18 | 10.18 | 0 | 10.89 | 10.89 | 0 | 11.17 | 11.16 | -0.01 | 12.27 | 12.27 | 0 | |
| 211580 | 8.07 | 8.07 | 0 | 10.18 | 10.18 | 0 | 10.93 | 10.93 | 0 | 11.21 | 11.2 | -0.01 | 12.3 | 12.3 | 0 | |
| 211590 | 8.12 | 8.13 | 0.01 | 10.22 | 10.22 | 0 | 11.45 | 11.45 | 0 | 11.72 | 11.72 | 0 | 12.73 | 12.73 | 0 | |
| 211600 | 9.68 | 9.68 | 0 | 10.23 | 10.23 | 0 | 11.08 | 11.08 | 0 | 11.38 | 11.38 | 0 | 12.37 | 12.37 | 0 | |
| 211605 | 11.78 | 11.78 | 0 | 12.11 | 12.11 | 0 | 12.47 | 12.47 | 0 | 12.58 | 12.58 | 0 | 13.01 | 13.01 | 0 | |
| 211610 | 8.07 | 8.07 | 0 | 10.19 | 10.19 | 0 | 10.86 | 10.86 | 0 | 11.14 | 11.14 | 0 | 12.26 | 12.26 | 0 | |
| 211620 | 8.03 | 8.03 | 0 | 10.16 | 10.16 | 0 | 10.8 | 10.8 | 0 | 11.08 | 11.08 | 0 | 12.16 | 12.16 | 0 | |
| 211630 | 9.69 | 9.69 | 0 | 10.43 | 10.43 | 0 | 10.81 | 10.81 | 0 | 11.08 | 11.08 | 0 | 12.16 | 12.16 | 0 | |
| 211640 | 9.69 | 9.69 | 0 | 10.44 | 10.44 | 0 | 10.81 | 10.81 | 0 | 11.09 | 11.08 | -0.01 | 12.16 | 12.16 | 0 | |
| 211650 | 9.7 | 9.7 | 0 | 10.65 | 10.65 | 0 | 11.06 | 11.06 | 0 | 11.22 | 11.22 | 0 | 12.16 | 12.16 | 0 | |
| 211660 | 8.12 | 8.12 | 0 | 10.19 | 10.19 | 0 | 10.86 | 10.86 | 0 | 11.14 | 11.14 | 0 | 12.26 | 12.26 | 0 | |
| 211670 | 8.04 | 8.05 | 0.01 | 10.17 | 10.17 | 0 | 10.83 | 10.83 | 0 | 11.11 | 11.11 | 0 | 12.21 | 12.21 | 0 | |
| 211680 | 0.12 | 0.12 | 0 | 0.12 | 0.12 | 0 | 0.12 | 0.12 | 0 | 0.12 | 0.12 | 0 | 0.12 | 0.12 | 0 | |
| 211690 | 8.04 | 8.05 | 0.01 | 10.17 | 10.17 | 0 | 10.83 | 10.83 | 0 | 11.11 | 11.11 | 0 | 12.21 | 12.21 | 0 | |
| 211700 | 8.08 | 8.08 | 0 | 10.17 | 10.17 | 0 | 10.83 | 10.83 | 0 | 11.11 | 11.11 | 0 | 12.21 | 12.21 | 0 | |
| 211710 | 16.38 | 16.38 | 0 | 16.61 | 16.61 | 0 | 16.72 | 16.72 | 0 | 16.77 | 16.77 | 0 | 16.99 | 16.99 | 0 | |
| 211720 | 16.62 | 16.62 | 0 | 16.83 | 16.83 | 0 | 17.04 | 17.04 | 0 | 17.17 | 17.17 | 0 | 17.7 | 17.7 | 0 | |
| 211730 | 12.2 | 12.2 | 0 | 12.5 | 12.5 | 0 | 12.61 | 12.61 | 0 | 12.66 | 12.66 | 0 | 12.84 | 12.84 | 0 | |
| 211740 | 13.8 | 13.8 | 0 | 14.34 | 14.34 | 0 | 14.44 | 14.44 | 0 | 14.49 | 14.49 | 0 | 14.72 | 14.72 | 0 | |
| 211750 | 13.69 | 13.69 | 0 | 14.36 | 14.36 | 0 | 14.58 | 14.58 | 0 | 14.66 | 14.66 | 0 | 15.01 | 15.01 | 0 | |
| 211760 | 15.56 | 15.56 | 0 | 16.54 | 16.54 | 0 | 16.93 | 16.93 | 0 | 17.09 | 17.09 | 0 | 17.66 | 17.66 | 0 | |
| 211770 | 12.91 | 12.91 | 0 | 14.16 | 14.16 | 0 | 14.64 | 14.64 | 0 | 14.83 | 14.83 | 0 | 15.62 | 15.62 | 0 | |
| 211780 | 12.92 | 12.92 | 0 | 14.2 | 14.2 | 0 | 14.67 | 14.67 | 0 | 14.85 | 14.85 | 0 | 15.62 | 15.62 | 0 | |
| 211790 | 13.01 | 13.01 | 0 | 14.23 | 14.23 | 0 | 14.68 | 14.68 | 0 | 14.85 | 14.85 | 0 | 15.62 | 15.62 | 0 | |
| 211800 | 13.04 | 13.04 | 0 | 14.31 | 14.31 | 0 | 14.74 | 14.74 | 0 | 14.9 | 14.9 | 0 | 15.62 | 15.62 | 0 | |
| 211810 | 13.29 | 13.29 | 0 | 14.35 | 14.35 | 0 | 14.76 | 14.76 | 0 | 14.92 | 14.92 | 0 | 15.62 | 15.62 | 0 | |
| 211820 | 13.41 | 13.41 | 0 | 14.46 | 14.46 | 0 | 14.88 | 14.88 | 0 | 15.04 | 15.04 | 0 | 15.57 | 15.57 | 0 | |
| 211840 | 12.94 | 12.94 | 0 | 14.22 | 14.22 | 0 | 14.67 | 14.67 | 0 | 14.85 | 14.85 | 0 | 15.62 | 15.62 | 0 | |
| 211850 | 13.01 | 13.01 | 0 | 14.23 | 14.23 | 0 | 14.68 | 14.68 | 0 | 14.85 | 14.85 | 0 | 15.62 | 15.62 | 0 | |
| 211860 | 13.06 | 13.06 | 0 | 14.32 | 14.32 | 0 | 14.74 | 14.74 | 0 | 14.9 | 14.9 | 0 | 15.62 | 15.62 | 0 | |
| 211870 | 15.53 | 15.53 | 0 | 15.72 | 15.72 | 0 | 15.82 | 15.82 | 0 | 15.86 | 15.86 | 0 | 16.02 | 16.02 | 0 | |
| 211880 | 14.37 | 14.37 | 0 | 16.32 | 16.32 | 0 | 16.57 | 16.57 | 0 | 16.6 | 16.6 | 0 | 16.86 | 16.86 | 0 | |
| 211890 | 14.38 | 14.38 | 0 | 15.6 | 15.6 | 0 | 16.13 | 16.13 | 0 | 16.34 | 16.34 | 0 | 17.19 | 17.19 | 0 | |
| 211900 | 16.43 | 16.43 | 0 | 17.59 | 17.59 | 0 | 18.21 | 18.21 | 0 | 18.51 | 18.51 | 0 | 19.7 | 19.7 | 0 | |
| 211910 | 14.38 | 14.38 | 0 | 15.6 | 15.6 | 0 | 16.13 | 16.13 | 0 | 16.34 | 16.34 | 0 | 17.19 | 17.19 | 0 | |
| 211920 | 18.12 | 18.12 | 0 | 18.77 | 18.77 | 0 | 19.2 | 19.2 | 0 | 19.35 | 19.35 | 0 | 19.94 | 19.94 | 0 | |
| 211930 | 18.29 | 18.29 | 0 | 18.98 | 18.98 | 0 | 19.28 | 19.28 | 0 | 19.4 | 19.4 | 0 | 19.96 | 19.96 | 0 | |
| 211940 | 15.77 | 15.77 | 0 | 16.15 | 16.15 | 0 | 16.36 | 16.36 | 0 | 16.47 | 16.47 | 0 | 17 | 17 | 0 | |
| 211950 | 20.4 | 20.4 | 0 | 20.72 | 20.72 | 0 | 20.86 | 20.86 | 0 | 20.93 | 20.93 | 0 | 21.23 | 21.23 | 0 | |
| 212000 | 8.06 | 8.06 | 0 | 10.17 | 10.17 | 0 | 10.77 | 10.77 | 0 | 11.02 | 11.02 | 0 | 12.08 | 12.07 | -0.01 | |
| 212010 | 8.06 | 8.07 | 0.01 | 10.17 | 10.17 | 0 | 10.76 | 10.75 | -0.01 | 11 | 11 | 0 | 12.04 | 12.04 | 0 | |
| 212020 | 8.06 | 8.06 | 0 | 10.17 | 10.17 | 0 | 10.73 | 10.73 | 0 | 10.92 | 10.92 | 0 | 11.72 | 11.71 | -0.01 | |
| 212030 | 8.07 | 8.07 | 0 | 10.17 | 10.17 | 0 | 10.69 | 10.69 | 0 | 10.8 | 10.8 | 0 | 11.36 | 11.35 | -0.01 | |
| 2120 | | | | | | | | | | | | | | | | |

Summary of Corrected and Revised Stages for Bridge Culvert

| Node | 2.33YR24HR | | | 25YR24HR | | | 50YR24HR | | | 100YR24HR | | | 500YR24HR | | | Notes |
|--------|--------------------------------|---------------------|-----------------|--------------------------------|---------------------|-----------------|--------------------------------|---------------------|-----------------|--------------------------------|---------------------|-----------------|--------------------------------|---------------------|-----------------|-------|
| | Corrected Effective Stage (ft) | Proposed Stage (ft) | Difference (ft) | Corrected Effective Stage (ft) | Proposed Stage (ft) | Difference (ft) | Corrected Effective Stage (ft) | Proposed Stage (ft) | Difference (ft) | Corrected Effective Stage (ft) | Proposed Stage (ft) | Difference (ft) | Corrected Effective Stage (ft) | Proposed Stage (ft) | Difference (ft) | |
| 212120 | 12.71 | 12.71 | 0 | 14.34 | 14.34 | 0 | 14.57 | 14.57 | 0 | 14.65 | 14.65 | 0 | 15.07 | 15.07 | 0 | |
| 212130 | 12.72 | 12.72 | 0 | 13.86 | 13.86 | 0 | 14.23 | 14.23 | 0 | 14.37 | 14.37 | 0 | 14.93 | 14.93 | 0 | |
| 212140 | 10.35 | 10.35 | 0 | 12.73 | 12.73 | 0 | 13.43 | 13.43 | 0 | 13.69 | 13.69 | 0 | 14.54 | 14.54 | 0 | |
| 212150 | 10.44 | 10.44 | 0 | 12.98 | 12.98 | 0 | 13.74 | 13.74 | 0 | 14.04 | 14.04 | 0 | 14.93 | 14.93 | 0 | |
| 212160 | 10.46 | 10.46 | 0 | 13.01 | 13.01 | 0 | 13.76 | 13.76 | 0 | 14.07 | 14.07 | 0 | 14.99 | 14.99 | 0 | |
| 212170 | 10.5 | 10.5 | 0 | 13.04 | 13.04 | 0 | 13.79 | 13.79 | 0 | 14.11 | 14.11 | 0 | 15.06 | 15.06 | 0 | |
| 212180 | 10.85 | 10.85 | 0 | 13.27 | 13.27 | 0 | 13.97 | 13.97 | 0 | 14.36 | 14.36 | 0 | 15.54 | 15.54 | 0 | |
| 212190 | 10.87 | 10.87 | 0 | 13.13 | 13.13 | 0 | 13.64 | 13.64 | 0 | 13.89 | 13.89 | 0 | 14.59 | 14.59 | 0 | |
| 212200 | 10.88 | 10.88 | 0 | 13.09 | 13.09 | 0 | 13.26 | 13.26 | 0 | 13.3 | 13.3 | 0 | 13.39 | 13.39 | 0 | |
| 212210 | 13.11 | 13.11 | 0 | 15.11 | 15.11 | 0 | 16.41 | 16.41 | 0 | 16.8 | 16.8 | 0 | 17.68 | 17.68 | 0 | |
| 212220 | 13.33 | 13.33 | 0 | 15.19 | 15.19 | 0 | 15.46 | 15.46 | 0 | 15.61 | 15.61 | 0 | 16.43 | 16.43 | 0 | |
| 212230 | 11 | 11 | 0 | 13.52 | 13.52 | 0 | 14.26 | 14.26 | 0 | 14.73 | 14.73 | 0 | 16.27 | 16.28 | 0.01 | |
| 212240 | 11.56 | 11.56 | 0 | 13.57 | 13.57 | 0 | 13.82 | 13.82 | 0 | 13.9 | 13.9 | 0 | 14.1 | 14.1 | 0 | |
| 212250 | 11.99 | 11.99 | 0 | 15.7 | 15.7 | 0 | 16.05 | 16.05 | 0 | 16.18 | 16.18 | 0 | 16.78 | 16.78 | 0 | |
| 212260 | 14.16 | 14.16 | 0 | 16.92 | 16.92 | 0 | 17.14 | 17.14 | 0 | 17.22 | 17.22 | 0 | 17.71 | 17.71 | 0 | |
| 212270 | 11.87 | 11.87 | 0 | 13.99 | 13.99 | 0 | 14.82 | 14.82 | 0 | 15.11 | 15.11 | 0 | 16.23 | 16.23 | 0 | |
| 212280 | 14.48 | 14.48 | 0 | 14.91 | 14.91 | 0 | 15.21 | 15.21 | 0 | 15.37 | 15.37 | 0 | 16.3 | 16.3 | 0 | |
| 212290 | 14.48 | 14.48 | 0 | 14.91 | 14.91 | 0 | 15.36 | 15.36 | 0 | 15.62 | 15.62 | 0 | 16.75 | 16.75 | 0 | |
| 212300 | 14.53 | 14.53 | 0 | 15.66 | 15.66 | 0 | 16.62 | 16.62 | 0 | 17.16 | 17.16 | 0 | 18.68 | 18.68 | 0 | |
| 212320 | 14.44 | 14.44 | 0 | 16.25 | 16.25 | 0 | 16.79 | 16.79 | 0 | 16.97 | 16.97 | 0 | 17.64 | 17.64 | 0 | |
| 212330 | 14.83 | 14.83 | 0 | 16.71 | 16.71 | 0 | 17.25 | 17.25 | 0 | 17.4 | 17.4 | 0 | 17.98 | 17.98 | 0 | |
| 212400 | 16.33 | 16.33 | 0 | 17.18 | 17.18 | 0 | 17.53 | 17.53 | 0 | 17.69 | 17.69 | 0 | 18.39 | 18.39 | 0 | |
| 212410 | 16.71 | 16.71 | 0 | 17.66 | 17.66 | 0 | 18 | 18 | 0 | 18.16 | 18.16 | 0 | 18.82 | 18.82 | 0 | |
| 212420 | 16.81 | 16.81 | 0 | 17.79 | 17.79 | 0 | 18.12 | 18.12 | 0 | 18.26 | 18.26 | 0 | 18.91 | 18.91 | 0 | |
| 212430 | 17.2 | 17.2 | 0 | 18.17 | 18.17 | 0 | 18.49 | 18.49 | 0 | 18.62 | 18.62 | 0 | 19.24 | 19.24 | 0 | |
| 212440 | 17.39 | 17.39 | 0 | 18.42 | 18.42 | 0 | 18.74 | 18.74 | 0 | 18.88 | 18.88 | 0 | 19.48 | 19.48 | 0 | |
| 212450 | 17.47 | 17.47 | 0 | 18.53 | 18.53 | 0 | 18.86 | 18.86 | 0 | 18.99 | 18.99 | 0 | 19.58 | 19.58 | 0 | |
| 212460 | 17.5 | 17.5 | 0 | 18.57 | 18.57 | 0 | 18.89 | 18.89 | 0 | 19.02 | 19.02 | 0 | 19.6 | 19.6 | 0 | |
| 212470 | 17.88 | 17.88 | 0 | 18.81 | 18.81 | 0 | 19.06 | 19.06 | 0 | 19.17 | 19.17 | 0 | 19.66 | 19.66 | 0 | |
| 212480 | 18.17 | 18.17 | 0 | 19.15 | 19.15 | 0 | 19.4 | 19.4 | 0 | 19.49 | 19.49 | 0 | 19.87 | 19.87 | 0 | |
| 212490 | 18.23 | 18.23 | 0 | 19.17 | 19.17 | 0 | 19.4 | 19.4 | 0 | 19.49 | 19.49 | 0 | 19.86 | 19.86 | 0 | |
| 212500 | 18.64 | 18.64 | 0 | 19.21 | 19.21 | 0 | 19.38 | 19.38 | 0 | 19.45 | 19.45 | 0 | 19.78 | 19.78 | 0 | |
| 212510 | 16.74 | 16.74 | 0 | 17.41 | 17.41 | 0 | 17.69 | 17.69 | 0 | 17.83 | 17.83 | 0 | 18.44 | 18.44 | 0 | |
| 212520 | 16.76 | 16.76 | 0 | 17.41 | 17.41 | 0 | 17.7 | 17.7 | 0 | 17.83 | 17.83 | 0 | 18.44 | 18.44 | 0 | |
| 212530 | 16.84 | 16.84 | 0 | 17.36 | 17.36 | 0 | 17.53 | 17.53 | 0 | 17.6 | 17.6 | 0 | 17.91 | 17.91 | 0 | |
| 212540 | 17.58 | 17.58 | 0 | 18.27 | 18.27 | 0 | 18.5 | 18.5 | 0 | 18.61 | 18.61 | 0 | 19.21 | 19.21 | 0 | |
| 212550 | 16.88 | 16.88 | 0 | 18.01 | 18.01 | 0 | 18.38 | 18.38 | 0 | 18.5 | 18.5 | 0 | 19.16 | 19.16 | 0 | |
| 212560 | 16.95 | 16.95 | 0 | 18.04 | 18.04 | 0 | 18.38 | 18.38 | 0 | 18.5 | 18.5 | 0 | 19.13 | 19.13 | 0 | |
| 212570 | 17.2 | 17.2 | 0 | 18.22 | 18.22 | 0 | 18.41 | 18.41 | 0 | 18.49 | 18.49 | 0 | 18.73 | 18.73 | 0 | |
| 212580 | 17.5 | 17.5 | 0 | 18.57 | 18.57 | 0 | 18.89 | 18.89 | 0 | 19.03 | 19.03 | 0 | 19.63 | 19.63 | 0 | |
| 212590 | 17.68 | 17.68 | 0 | 19.19 | 19.19 | 0 | 19.58 | 19.58 | 0 | 19.74 | 19.74 | 0 | 20.36 | 20.36 | 0 | |
| 212600 | 17.49 | 17.49 | 0 | 18.56 | 18.56 | 0 | 18.89 | 18.89 | 0 | 19.03 | 19.03 | 0 | 19.66 | 19.66 | 0 | |
| 212610 | 17.67 | 17.67 | 0 | 19.42 | 19.42 | 0 | 19.79 | 19.79 | 0 | 19.94 | 19.94 | 0 | 20.65 | 20.65 | 0 | |
| 212620 | 17.88 | 17.88 | 0 | 20.06 | 20.06 | 0 | 20.65 | 20.65 | 0 | 20.9 | 20.9 | 0 | 21.8 | 21.8 | 0 | |
| 212630 | 18.22 | 18.22 | 0 | 20.98 | 20.98 | 0 | 21.55 | 21.55 | 0 | 21.74 | 21.74 | 0 | 22.49 | 22.49 | 0 | |
| 212640 | 17.85 | 17.85 | 0 | 19.45 | 19.45 | 0 | 19.8 | 19.8 | 0 | 19.95 | 19.95 | 0 | 20.56 | 20.56 | 0 | |
| 212650 | 18.65 | 18.65 | 0 | 19.66 | 19.66 | 0 | 19.82 | 19.82 | 0 | 19.88 | 19.88 | 0 | 20.2 | 20.2 | 0 | |
| 212660 | 18.19 | 18.19 | 0 | 19.27 | 19.27 | 0 | 19.61 | 19.61 | 0 | 19.75 | 19.75 | 0 | 20.27 | 20.27 | 0 | |
| 212670 | 18.19 | 18.19 | 0 | 19.19 | 19.19 | 0 | 19.54 | 19.54 | 0 | 19.69 | 19.69 | 0 | 20.27 | 20.27 | 0 | |
| 212680 | 18.12 | 18.12 | 0 | 19.19 | 19.19 | 0 | 19.54 | 19.54 | 0 | 19.69 | 19.69 | 0 | 20.27 | 20.27 | 0 | |
| 212690 | 19.42 | 19.42 | 0 | 19.82 | 19.82 | 0 | 19.92 | 19.92 | 0 | 19.97 | 19.97 | 0 | 20.27 | 20.27 | 0 | |
| 212700 | 17.03 | 17.03 | 0 | 18.27 | 18.27 | 0 | 18.79 | 18.79 | 0 | 18.92 | 18.92 | 0 | 19.3 | 19.3 | 0 | |
| 212710 | 18.72 | 18.72 | 0 | 18.94 | 18.94 | 0 | 19.02 | 19.02 | 0 | 19.06 | 19.06 | 0 | 19.33 | 19.33 | 0 | |
| 212720 | 15.19 | 15.19 | 0 | 15.58 | 15.58 | 0 | 15.77 | 15.78 | 0.01 | 16.11 | 16.11 | 0 | 17.41 | 17.41 | 0 | |
| 212730 | 17.34 | 17.34 | 0 | 17.81 | 17.81 | 0 | 18.05 | 18.05 | 0 | 18.16 | 18.16 | 0 | 18.66 | 18.66 | 0 | |
| 212740 | 14.46 | 14.46 | 0 | 16.72 | 16.72 | 0 | 17.6 | 17.6 | 0 | 17.97 | 17.97 | 0 | 19.48 | 19.48 | 0 | |
| 212750 | 16.8 | 16.8 | 0 | 17.22 | 17.22 | 0 | 17.62 | 17.62 | 0 | 18.05 | 18.05 | 0 | 19.58 | 19.58 | 0 | |
| 212760 | 20.67 | 20.67 | 0 | 21.14 | 21.14 | 0 | 21.27 | 21.27 | 0 | 21.33 | 21.33 | 0 | 21.64 | 21.64 | 0 | |
| 212770 | 20.87 | 20.87 | 0 | 21.54 | 21.54 | 0 | 21.78 | 21.78 | 0 | 21.88 | 21.88 | 0 | 22.33 | 22.33 | 0 | |
| 212780 | 17.81 | 17.81 | 0 | 18.77 | 18.77 | 0 | 19.24 | 19.24 | 0 | 19.36 | 19.36 | 0 | 19.95 | 19.95 | 0 | |
| 212790 | 19.61 | 19.61 | 0 | 20.31 | 20.31 | 0 | 20.9 | 20.9 | 0 | 21.18 | 21.18 | 0 | 22.33 | 22.33 | 0 | |
| 212900 | 19.7 | 19.7 | 0 | 20.72 | 20.72 | 0 | 21.09 | 21.09 | 0 | 21.24 | 21.24 | 0 | 21.92 | 21.92 | 0 | |
| 212910 | 19.98 | 19.98 | 0 | 21.03 | 21.03 | 0 | 21.39 | 21.39 | 0 | 21.54 | 21.54 | 0 | 22.18 | 22.18 | 0 | |
| 212920 | 20.11 | 20.11 | 0 | 21.24 | 21.24 | 0 | 21.63 | 21.63 | 0 | 21.79 | 21.79 | 0 | 22.45 | 22.45 | 0 | |
| 212930 | 20.15 | 20.15 | 0 | 21.27 | 21.27 | 0 | 21.66 | 21.66 | 0 | 21.82 | 21.82 | 0 | 22.49 | 22.49 | 0 | |
| 212940 | 20.33 | 20.33 | 0 | 21.73 | 21.73 | 0 | 22.21 | 22.21 | 0 | 22.39 | 22.39 | 0 | 22.98 | 22.98 | 0 | |
| 212950 | 20.59 | 20.59 | 0 | 21.82 | 21.82 | 0 | 22.27 | 22.27 | 0 | 22.45 | 22.45 | 0 | 23.01 | 23.01 | 0 | |
| 212960 | 21.43 | 21.43 | 0 | 22.29 | 22.29 | 0 | 22.78 | 22.78 | 0 | 22.97 | 22.97 | 0 | 23.5 | 23.5 | 0 | |
| 212970 | 21.55 | 21.55 | 0 | 22.17 | 22.17 | 0 | 22.52 | 22.52 | 0 | 22.67 | 22.67 | 0 | 23.23 | 23.23 | 0 | |
| 212980 | 20.61 | 20.61 | 0 | 21.95 | 21.95 | 0 | 22.44 | 22.44 | 0 | 22.63 | 22.63 | 0 | 23.69 | 23.69 | 0 | |
| 212990 | 22.12 | 22.12 | 0 | 22.94 | 22.94 | 0 | 23.26 | 23.26 | 0 | 23.38 | 23.38 | 0 | 23.75 | 23.75 | 0 | |
| 213100 | 16.65 | 16.65 | 0 | 18.37 | 18.37 | 0 | 19.06 | 19.06 | 0 | 19.34 | 19.34 | 0 | 20.96 | 20.96 | 0 | |
| 213110 | 19.44 | 19.44 | 0 | 20.39 | 20.39 | 0 | 20.93 | 20.93 | 0 | 21.2 | 21.2 | 0 | 21.87 | 21.87 | 0 | |
| 213120 | 19.44 | 19.44 | 0 | 20.4 | 20.4 | 0 | 20.93 | 20.93 | 0 | 21.2 | 21.2 | 0 | 22 | 22 | 0 | |
| 213130 | 19.44 | 19.44 | 0 | 20.4 | 20.4 | 0 | 20.94 | 20.94 | 0 | 21.2 | 21.2 | 0 | 22.04 | 22.04 | 0 | |
| 213140 | 16.25 | 16.25 | 0 | 18.53 | 18.53 | 0 | 19.27 | 19.27 | 0 | 19.71 | 19.71 | 0 | 21.62 | 21.62 | 0 | |
| 213150 | 19.78 | 19.78 | 0 | 20.65 | 20.65 | 0 | 20.95 | 20.95 | 0 | 21.08 | 21.08 | 0 | 21.78 | 21.78 | 0 | |
| 213160 | 19.03 | 19.03 | 0 | 20.54 | 20.54 | 0 | 21.11 | 21.11 | 0 | 21.33 | 21.33 | 0 | 22.24 | 22.24 | 0 | |
| 213170 | 19.25 | 19.25 | 0 | 21.33 | 21.33 | 0 | 22.25 | 22.25 | 0 | 22.6 | 22.6 | 0 | 23.6 | 23.6 | 0 | |
| 213180 | 20.29 | 20.29 | 0 | 21.93 | 21.93 | 0 | 22.64 | 22.64 | 0 | 22.9 | 22.9 | 0 | 23.93 | 23.93 | 0 | |
| 213190 | 20.4 | 20.4 | 0 | 22.4 | 22.4 | 0 | 23.3 | 23.3 | 0 | 23.61 | 23.61 | 0 | 24.47 | 24.47 | 0 | |
| 213200 | 20.58 | 20.58 | 0 | 21.82 | 21.82 | 0 | 22.47 | 22.47 | 0 | 22.76 | 22.76 | 0 | 23.87 | 23.87 | 0 | |
| 213210 | 18.7 | 18.7 | 0 | 19.17 | 19.17 | 0 | 19.43 | 19.43 | 0 | 19.56 | 19.56 | 0 | 20.24 | 20.24 | | |

Summary of Corrected and Revised Stages for Bridge Culvert

| Node | 2.3YR24HR | | | 25YR24HR | | | 50YR24HR | | | 100YR24HR | | | 500YR24HR | | | Notes |
|--------|--------------------------------|---------------------|-----------------|--------------------------------|---------------------|-----------------|--------------------------------|---------------------|-----------------|--------------------------------|---------------------|-----------------|--------------------------------|---------------------|-----------------|-------|
| | Corrected Effective Stage (ft) | Proposed Stage (ft) | Difference (ft) | Corrected Effective Stage (ft) | Proposed Stage (ft) | Difference (ft) | Corrected Effective Stage (ft) | Proposed Stage (ft) | Difference (ft) | Corrected Effective Stage (ft) | Proposed Stage (ft) | Difference (ft) | Corrected Effective Stage (ft) | Proposed Stage (ft) | Difference (ft) | |
| 213270 | 19.44 | 19.44 | 0 | 21.46 | 21.46 | 0 | 22.2 | 22.2 | 0 | 22.53 | 22.53 | 0 | 24.09 | 24.09 | 0 | |
| 213300 | 25.92 | 25.92 | 0 | 26.67 | 26.67 | 0 | 27.04 | 27.04 | 0 | 27.21 | 27.21 | 0 | 27.92 | 27.92 | 0 | |
| 213310 | 25.92 | 25.92 | 0 | 26.67 | 26.67 | 0 | 27.04 | 27.04 | 0 | 27.21 | 27.21 | 0 | 27.92 | 27.92 | 0 | |
| 213320 | 28.73 | 28.73 | 0 | 30.13 | 30.13 | 0 | 30.6 | 30.6 | 0 | 30.8 | 30.8 | 0 | 31.67 | 31.67 | 0 | |
| 213330 | 26.11 | 26.11 | 0 | 26.61 | 26.61 | 0 | 26.78 | 26.78 | 0 | 26.86 | 26.86 | 0 | 27.2 | 27.2 | 0 | |
| 213340 | 24.7 | 24.7 | 0 | 25.35 | 25.35 | 0 | 25.72 | 25.72 | 0 | 25.89 | 25.89 | 0 | 26.32 | 26.32 | 0 | |
| 213350 | 22.99 | 22.99 | 0 | 24.09 | 24.09 | 0 | 24.34 | 24.34 | 0 | 24.44 | 24.44 | 0 | 24.87 | 24.87 | 0 | |
| 213360 | 24.09 | 24.09 | 0 | 24.53 | 24.53 | 0 | 24.78 | 24.78 | 0 | 24.89 | 24.89 | 0 | 25.38 | 25.38 | 0 | |
| 213370 | 24.64 | 24.64 | 0 | 25.02 | 25.02 | 0 | 25.18 | 25.18 | 0 | 25.25 | 25.25 | 0 | 25.52 | 25.52 | 0 | |
| 213380 | 22.99 | 22.99 | 0 | 24.09 | 24.09 | 0 | 24.34 | 24.34 | 0 | 24.44 | 24.44 | 0 | 24.87 | 24.87 | 0 | |
| 213390 | 23.67 | 23.67 | 0 | 24.12 | 24.12 | 0 | 24.34 | 24.34 | 0 | 24.44 | 24.44 | 0 | 24.87 | 24.87 | 0 | |
| 213500 | 22.37 | 22.37 | 0 | 23.04 | 23.04 | 0 | 23.68 | 23.68 | 0 | 23.98 | 23.98 | 0 | 25.43 | 25.43 | 0 | |
| 213510 | 23.2 | 23.2 | 0 | 23.8 | 23.8 | 0 | 24.39 | 24.39 | 0 | 24.64 | 24.64 | 0 | 25.66 | 25.66 | 0 | |
| 213520 | 24.41 | 24.41 | 0 | 26.03 | 26.03 | 0 | 26.26 | 26.26 | 0 | 26.34 | 26.34 | 0 | 26.68 | 26.68 | 0 | |
| 213530 | 26.2 | 26.2 | 0 | 26.9 | 26.9 | 0 | 27.09 | 27.09 | 0 | 27.16 | 27.16 | 0 | 27.44 | 27.44 | 0 | |
| 213540 | 26.22 | 26.22 | 0 | 26.96 | 26.96 | 0 | 27.2 | 27.2 | 0 | 27.29 | 27.29 | 0 | 27.68 | 27.68 | 0 | |
| 213550 | 26.27 | 26.27 | 0 | 27.06 | 27.06 | 0 | 27.32 | 27.32 | 0 | 27.42 | 27.42 | 0 | 27.81 | 27.81 | 0 | |
| 213560 | 26.27 | 26.27 | 0 | 27.06 | 27.06 | 0 | 27.33 | 27.33 | 0 | 27.42 | 27.42 | 0 | 27.82 | 27.82 | 0 | |
| 213570 | 26.27 | 26.27 | 0 | 27.08 | 27.08 | 0 | 27.35 | 27.35 | 0 | 27.46 | 27.46 | 0 | 27.87 | 27.87 | 0 | |
| 213580 | 26.28 | 26.28 | 0 | 27.12 | 27.12 | 0 | 27.4 | 27.4 | 0 | 27.5 | 27.5 | 0 | 27.91 | 27.91 | 0 | |
| 213590 | 26.73 | 26.73 | 0 | 27.46 | 27.46 | 0 | 27.65 | 27.65 | 0 | 27.73 | 27.73 | 0 | 28.07 | 28.07 | 0 | |
| 213600 | 26.74 | 26.74 | 0 | 27.5 | 27.5 | 0 | 27.71 | 27.71 | 0 | 27.79 | 27.79 | 0 | 28.19 | 28.19 | 0 | |
| 213610 | 26.88 | 26.88 | 0 | 27.82 | 27.82 | 0 | 28.16 | 28.16 | 0 | 28.29 | 28.29 | 0 | 28.83 | 28.83 | 0 | |
| 213620 | 22.37 | 22.37 | 0 | 23.04 | 23.04 | 0 | 23.68 | 23.68 | 0 | 23.98 | 23.98 | 0 | 25.43 | 25.43 | 0 | |
| 213630 | 23.47 | 23.47 | 0 | 23.79 | 23.79 | 0 | 23.86 | 23.86 | 0 | 23.98 | 23.98 | 0 | 25.43 | 25.43 | 0 | |
| 213640 | 24.45 | 24.45 | 0 | 26.17 | 26.17 | 0 | 26.47 | 26.47 | 0 | 26.58 | 26.58 | 0 | 27.08 | 27.08 | 0 | |
| 213650 | 26.58 | 26.58 | 0 | 27.03 | 27.03 | 0 | 27.26 | 27.26 | 0 | 27.36 | 27.36 | 0 | 27.79 | 27.79 | 0 | |
| 213660 | 26.86 | 26.86 | 0 | 26.86 | 26.86 | 0 | 26.86 | 26.86 | 0 | 26.86 | 26.86 | 0 | 26.95 | 26.95 | 0 | |
| 213670 | 26.19 | 26.19 | 0 | 27.12 | 27.12 | 0 | 27.41 | 27.41 | 0 | 27.51 | 27.51 | 0 | 27.93 | 27.93 | 0 | |
| 213680 | 26.06 | 26.06 | 0 | 27.12 | 27.12 | 0 | 27.41 | 27.41 | 0 | 27.51 | 27.51 | 0 | 27.93 | 27.93 | 0 | |
| 213690 | 26.27 | 26.27 | 0 | 27.08 | 27.08 | 0 | 27.36 | 27.36 | 0 | 27.46 | 27.46 | 0 | 27.92 | 27.92 | 0 | |
| 213700 | 23.2 | 23.2 | 0 | 24.5 | 24.5 | 0 | 25.11 | 25.11 | 0 | 25.41 | 25.41 | 0 | 26.68 | 26.68 | 0 | |
| 213710 | 23.33 | 23.33 | 0 | 24.62 | 24.62 | 0 | 25.22 | 25.22 | 0 | 25.5 | 25.5 | 0 | 26.71 | 26.71 | 0 | |
| 213720 | 23 | 23 | 0 | 23.73 | 23.73 | 0 | 24.86 | 24.86 | 0 | 25.15 | 25.15 | 0 | 26.38 | 26.38 | 0 | |
| 213730 | 23.14 | 23.14 | 0 | 24.31 | 24.31 | 0 | 24.87 | 24.87 | 0 | 25.15 | 25.15 | 0 | 26.38 | 26.38 | 0 | |
| 213740 | 23.43 | 23.43 | 0 | 24.31 | 24.31 | 0 | 24.87 | 24.87 | 0 | 25.15 | 25.15 | 0 | 26.38 | 26.38 | 0 | |
| 213750 | 23.82 | 23.82 | 0 | 24.31 | 24.31 | 0 | 24.87 | 24.87 | 0 | 25.15 | 25.15 | 0 | 26.38 | 26.38 | 0 | |
| 213760 | 24.78 | 24.78 | 0 | 25.19 | 25.19 | 0 | 25.38 | 25.38 | 0 | 25.48 | 25.48 | 0 | 26.38 | 26.38 | 0 | |
| 213800 | 23.78 | 23.78 | 0 | 25.06 | 25.06 | 0 | 25.66 | 25.66 | 0 | 25.92 | 25.92 | 0 | 27.06 | 27.06 | 0 | |
| 213810 | 23.77 | 23.77 | 0 | 25.06 | 25.06 | 0 | 25.66 | 25.66 | 0 | 25.92 | 25.92 | 0 | 27.06 | 27.06 | 0 | |
| 213820 | 23.77 | 23.77 | 0 | 25.06 | 25.06 | 0 | 25.66 | 25.66 | 0 | 25.92 | 25.92 | 0 | 27.06 | 27.06 | 0 | |
| 213830 | 23.77 | 23.77 | 0 | 25.06 | 25.06 | 0 | 25.66 | 25.66 | 0 | 25.92 | 25.92 | 0 | 27.06 | 27.06 | 0 | |
| 213840 | 23.77 | 23.77 | 0 | 25.06 | 25.06 | 0 | 25.66 | 25.66 | 0 | 25.92 | 25.92 | 0 | 27.15 | 27.15 | 0 | |
| 213850 | 23.77 | 23.77 | 0 | 25.06 | 25.06 | 0 | 25.66 | 25.66 | 0 | 25.92 | 25.92 | 0 | 27.41 | 27.41 | 0 | |
| 213860 | 23.7 | 23.7 | 0 | 24.89 | 24.89 | 0 | 25.44 | 25.44 | 0 | 25.69 | 25.69 | 0 | 26.8 | 26.8 | 0 | |
| 213870 | 23.77 | 23.77 | 0 | 25.06 | 25.06 | 0 | 25.66 | 25.66 | 0 | 25.92 | 25.92 | 0 | 27.06 | 27.06 | 0 | |
| 213875 | 25.71 | 25.71 | 0 | 26.43 | 26.43 | 0 | 26.61 | 26.61 | 0 | 26.69 | 26.69 | 0 | 27.07 | 27.07 | 0 | |
| 213880 | 25.75 | 25.75 | 0 | 26.43 | 26.43 | 0 | 26.61 | 26.61 | 0 | 26.69 | 26.69 | 0 | 27.07 | 27.07 | 0 | |
| 213890 | 23.77 | 23.77 | 0 | 25.06 | 25.06 | 0 | 25.66 | 25.66 | 0 | 25.92 | 25.92 | 0 | 27.06 | 27.06 | 0 | |
| 213900 | 23.77 | 23.77 | 0 | 25.06 | 25.06 | 0 | 25.66 | 25.66 | 0 | 25.92 | 25.92 | 0 | 27.18 | 27.18 | 0 | |
| 214000 | 23.8 | 23.8 | 0 | 25.12 | 25.12 | 0 | 25.75 | 25.75 | 0 | 26.03 | 26.03 | 0 | 27.16 | 27.16 | 0 | |
| 214010 | 25.25 | 25.25 | 0 | 26.05 | 26.05 | 0 | 26.35 | 26.35 | 0 | 26.51 | 26.51 | 0 | 27.37 | 27.37 | 0 | |
| 214020 | 25.31 | 25.31 | 0 | 26.16 | 26.16 | 0 | 26.47 | 26.47 | 0 | 26.64 | 26.64 | 0 | 27.53 | 27.53 | 0 | |
| 214030 | 25.83 | 25.83 | 0 | 26.56 | 26.56 | 0 | 26.89 | 26.89 | 0 | 27.06 | 27.06 | 0 | 27.86 | 27.86 | 0 | |
| 214040 | 26.48 | 26.48 | 0 | 27.04 | 27.04 | 0 | 27.34 | 27.34 | 0 | 27.5 | 27.5 | 0 | 28.18 | 28.18 | 0 | |
| 214050 | 26.77 | 26.77 | 0 | 27.33 | 27.33 | 0 | 27.6 | 27.6 | 0 | 27.78 | 27.78 | 0 | 28.55 | 28.55 | 0 | |
| 214060 | 27.04 | 27.04 | 0 | 27.61 | 27.61 | 0 | 27.88 | 27.88 | 0 | 28.06 | 28.06 | 0 | 28.92 | 28.92 | 0 | |
| 214070 | 27.09 | 27.09 | 0 | 27.67 | 27.67 | 0 | 27.94 | 27.94 | 0 | 28.12 | 28.12 | 0 | 29.53 | 29.53 | 0 | |
| 214080 | 27.1 | 27.1 | 0 | 27.66 | 27.66 | 0 | 27.94 | 27.94 | 0 | 28.12 | 28.12 | 0 | 29.57 | 29.57 | 0 | |
| 214090 | 27.97 | 27.97 | 0 | 28.65 | 28.65 | 0 | 29.02 | 29.02 | 0 | 29.19 | 29.19 | 0 | 29.7 | 29.7 | 0 | |
| 214100 | 23.8 | 23.8 | 0 | 25.12 | 25.12 | 0 | 25.73 | 25.73 | 0 | 26 | 26 | 0 | 27.15 | 27.15 | 0 | |
| 214110 | 25.38 | 25.38 | 0 | 26.47 | 26.47 | 0 | 26.85 | 26.85 | 0 | 27 | 27 | 0 | 27.74 | 27.74 | 0 | |
| 214120 | 26.15 | 26.15 | 0 | 27.46 | 27.46 | 0 | 27.84 | 27.84 | 0 | 28 | 28 | 0 | 28.63 | 28.63 | 0 | |
| 214130 | 27.47 | 27.47 | 0 | 27.53 | 27.53 | 0 | 27.84 | 27.84 | 0 | 28 | 28 | 0 | 28.63 | 28.63 | 0 | |
| 214140 | 26.7 | 26.7 | 0 | 28.15 | 28.15 | 0 | 28.32 | 28.32 | 0 | 28.38 | 28.38 | 0 | 28.63 | 28.63 | 0 | |
| 214150 | 28.06 | 28.06 | 0 | 28.27 | 28.27 | 0 | 28.35 | 28.35 | 0 | 28.39 | 28.39 | 0 | 28.63 | 28.63 | 0 | |
| 214160 | 25.33 | 25.33 | 0 | 26.23 | 26.23 | 0 | 26.58 | 26.58 | 0 | 26.74 | 26.74 | 0 | 27.54 | 27.54 | 0 | |
| 214170 | 25.77 | 25.77 | 0 | 26.5 | 26.5 | 0 | 26.86 | 26.86 | 0 | 27.03 | 27.03 | 0 | 27.65 | 27.65 | 0 | |
| 214180 | 25.84 | 25.84 | 0 | 26.62 | 26.62 | 0 | 27.04 | 27.04 | 0 | 27.27 | 27.27 | 0 | 28.61 | 28.61 | 0 | |
| 214190 | 25.85 | 25.85 | 0 | 26.69 | 26.69 | 0 | 27.18 | 27.18 | 0 | 27.43 | 27.43 | 0 | 28.66 | 28.66 | 0 | |
| 214200 | 25.85 | 25.85 | 0 | 26.7 | 26.7 | 0 | 27.33 | 27.33 | 0 | 27.76 | 27.76 | 0 | 29.25 | 29.25 | 0 | |
| 214210 | 25.71 | 25.71 | 0 | 27.17 | 27.17 | 0 | 27.67 | 27.67 | 0 | 27.9 | 27.9 | 0 | 28.8 | 28.8 | 0 | |
| 214220 | 25.73 | 25.73 | 0 | 27.19 | 27.19 | 0 | 27.68 | 27.68 | 0 | 27.9 | 27.9 | 0 | 28.8 | 28.8 | 0 | |
| 214230 | 27.76 | 27.76 | 0 | 28.31 | 28.31 | 0 | 28.53 | 28.53 | 0 | 28.62 | 28.62 | 0 | 28.95 | 28.95 | 0 | |
| 214240 | 27.78 | 27.78 | 0 | 28.37 | 28.37 | 0 | 28.6 | 28.6 | 0 | 28.71 | 28.71 | 0 | 29.13 | 29.13 | 0 | |
| 214250 | 27.84 | 27.84 | 0 | 28.18 | 28.18 | 0 | 28.33 | 28.33 | 0 | 28.39 | 28.39 | 0 | 28.72 | 28.72 | 0 | |
| 214260 | 27.78 | 27.78 | 0 | 28.47 | 28.47 | 0 | 28.79 | 28.79 | 0 | 28.91 | 28.91 | 0 | 29.33 | 29.33 | 0 | |
| 214270 | 27.16 | 27.16 | 0 | 27.85 | 27.85 | 0 | 28.09 | 28.09 | 0 | 28.19 | 28.19 | 0 | 28.58 | 28.58 | 0 | |
| 214280 | 27.44 | 27.44 | 0 | 28.1 | 28.1 | 0 | 28.26 | 28.26 | 0 | 28.32 | 28.32 | 0 | 28.6 | 28.6 | 0 | |
| 214290 | 27.47 | 27.47 | 0 | 28.49 | 28.49 | 0 | 28.85 | 28.85 | 0 | 29 | 29 | 0 | 29.5 | 29.5 | 0 | |
| 214300 | 27.71 | 27.71 | 0 | 28.55 | 28.55 | 0 | 28.92 | 28.92 | 0 | 29.02 | 29.02 | 0 | 29.42 | 29.42 | 0 | |
| 214310 | 28.94 | 28.94 | 0 | 29.09 | 29.09 | 0 | 29.17 | 29.17 | 0 | 29.22 | 29.22 | 0 | 29.49 | 29.49 | 0 | |
| 214320 | 25.73 | 25.73 | 0 | 27.19 | 27.19 | 0 | 27.68 | 27.68 | 0 | 27.91 | 27.91 | 0 | 28.8 | 28.8 | 0 | |
| | | | | | | | | | | | | | | | | |

Summary of Corrected and Revised Stages for Bridge Culvert

| Node | 2.33YR24HR | | | 25YR24HR | | | 50YR24HR | | | 100YR24HR | | | 500YR24HR | | | Notes |
|--------|--------------------------------|---------------------|-----------------|--------------------------------|---------------------|-----------------|--------------------------------|---------------------|-----------------|--------------------------------|---------------------|-----------------|--------------------------------|---------------------|-----------------|-------|
| | Corrected Effective Stage (ft) | Proposed Stage (ft) | Difference (ft) | Corrected Effective Stage (ft) | Proposed Stage (ft) | Difference (ft) | Corrected Effective Stage (ft) | Proposed Stage (ft) | Difference (ft) | Corrected Effective Stage (ft) | Proposed Stage (ft) | Difference (ft) | Corrected Effective Stage (ft) | Proposed Stage (ft) | Difference (ft) | |
| 214380 | 27.97 | 27.97 | 0 | 28.44 | 28.44 | 0 | 28.66 | 28.66 | 0 | 28.75 | 28.75 | 0 | 29.15 | 29.15 | 0 | |
| 214390 | 27.99 | 27.99 | 0 | 28.48 | 28.48 | 0 | 28.66 | 28.66 | 0 | 28.74 | 28.74 | 0 | 29.14 | 29.14 | 0 | |
| 214400 | 28.02 | 28.02 | 0 | 28.49 | 28.49 | 0 | 28.66 | 28.66 | 0 | 28.74 | 28.74 | 0 | 29.14 | 29.14 | 0 | |
| 214410 | 27.57 | 27.57 | 0 | 28.24 | 28.24 | 0 | 28.53 | 28.53 | 0 | 28.65 | 28.65 | 0 | 29.17 | 29.17 | 0 | |
| 214420 | 27.65 | 27.65 | 0 | 28.25 | 28.25 | 0 | 28.53 | 28.53 | 0 | 28.66 | 28.66 | 0 | 29.18 | 29.18 | 0 | |
| 214430 | 27.66 | 27.66 | 0 | 28.28 | 28.28 | 0 | 28.56 | 28.56 | 0 | 28.7 | 28.7 | 0 | 29.38 | 29.38 | 0 | |
| 214440 | 30.83 | 30.83 | 0 | 32.22 | 32.22 | 0 | 32.92 | 32.92 | 0 | 33.08 | 33.08 | 0 | 33.49 | 33.49 | 0 | |
| 214450 | 32.67 | 32.67 | 0 | 33.09 | 33.09 | 0 | 33.24 | 33.24 | 0 | 33.3 | 33.3 | 0 | 33.6 | 33.6 | 0 | |
| 214455 | 24.95 | 24.95 | 0 | 25.67 | 25.67 | 0 | 26.02 | 26.02 | 0 | 26.18 | 26.18 | 0 | 27.15 | 27.15 | 0 | |
| 214460 | 24.96 | 24.96 | 0 | 25.68 | 25.68 | 0 | 26.04 | 26.04 | 0 | 26.2 | 26.2 | 0 | 27.15 | 27.15 | 0 | |
| 214500 | 24.3 | 24.3 | 0 | 25.39 | 25.39 | 0 | 25.94 | 25.94 | 0 | 26.19 | 26.19 | 0 | 27.27 | 27.27 | 0 | |
| 214510 | 24.3 | 24.3 | 0 | 25.39 | 25.39 | 0 | 25.95 | 25.95 | 0 | 26.2 | 26.2 | 0 | 27.28 | 27.28 | 0 | |
| 214520 | 25.4 | 25.4 | 0 | 26.2 | 26.2 | 0 | 26.62 | 26.62 | 0 | 26.78 | 26.78 | 0 | 27.6 | 27.6 | 0 | |
| 214530 | 29.37 | 29.37 | 0 | 29.83 | 29.83 | 0 | 30.07 | 30.07 | 0 | 30.14 | 30.14 | 0 | 30.49 | 30.49 | 0 | |
| 214540 | 29.41 | 29.41 | 0 | 29.9 | 29.9 | 0 | 30.16 | 30.16 | 0 | 30.25 | 30.25 | 0 | 30.63 | 30.63 | 0 | |
| 214550 | 29.6 | 29.6 | 0 | 30.41 | 30.41 | 0 | 30.88 | 30.88 | 0 | 31.01 | 31.01 | 0 | 31.49 | 31.49 | 0 | |
| 214560 | 29.61 | 29.61 | 0 | 30.47 | 30.47 | 0 | 31 | 31 | 0 | 31.15 | 31.15 | 0 | 31.72 | 31.72 | 0 | |
| 214570 | 29.64 | 29.64 | 0 | 30.6 | 30.6 | 0 | 31.25 | 31.25 | 0 | 31.45 | 31.45 | 0 | 32.2 | 32.2 | 0 | |
| 214580 | 29.64 | 29.64 | 0 | 30.63 | 30.63 | 0 | 31.3 | 31.3 | 0 | 31.53 | 31.53 | 0 | 32.43 | 32.43 | 0 | |
| 214590 | 29.65 | 29.65 | 0 | 31.04 | 31.04 | 0 | 31.52 | 31.52 | 0 | 31.74 | 31.74 | 0 | 32.65 | 32.65 | 0 | |
| 214600 | 29.66 | 29.66 | 0 | 31.06 | 31.06 | 0 | 31.58 | 31.58 | 0 | 31.82 | 31.82 | 0 | 32.77 | 32.77 | 0 | |
| 214610 | 31.7 | 31.7 | 0 | 32.39 | 32.39 | 0 | 32.72 | 32.72 | 0 | 32.87 | 32.87 | 0 | 33.61 | 33.61 | 0 | |
| 214620 | 31.24 | 31.24 | 0 | 32.25 | 32.25 | 0 | 32.67 | 32.67 | 0 | 32.84 | 32.84 | 0 | 33.59 | 33.59 | 0 | |
| 214630 | 34.79 | 34.79 | 0 | 35.18 | 35.18 | 0 | 35.38 | 35.38 | 0 | 35.47 | 35.47 | 0 | 35.89 | 35.89 | 0 | |
| 214640 | 34.87 | 34.87 | 0 | 35.53 | 35.53 | 0 | 35.97 | 35.97 | 0 | 36.21 | 36.21 | 0 | 37.59 | 37.59 | 0 | |
| 214650 | 34.9 | 34.9 | 0 | 35.9 | 35.9 | 0 | 36.55 | 36.55 | 0 | 36.94 | 36.94 | 0 | 38.99 | 38.99 | 0 | |
| 214660 | 38.61 | 38.61 | 0 | 39.81 | 39.81 | 0 | 40.32 | 40.32 | 0 | 40.6 | 40.6 | 0 | 42.06 | 42.06 | 0 | |
| 214670 | 38.93 | 38.93 | 0 | 41.1 | 41.1 | 0 | 42.44 | 42.44 | 0 | 43.41 | 43.41 | 0 | 46.36 | 46.36 | 0 | |
| 214680 | 44.27 | 44.27 | 0 | 45.12 | 45.12 | 0 | 45.54 | 45.54 | 0 | 45.74 | 45.74 | 0 | 46.73 | 46.73 | 0 | |
| 214690 | 45.33 | 45.33 | 0 | 46.37 | 46.37 | 0 | 46.64 | 46.64 | 0 | 46.77 | 46.77 | 0 | 47.28 | 47.28 | 0 | |
| 214700 | 45.33 | 45.33 | 0 | 46.37 | 46.37 | 0 | 46.64 | 46.64 | 0 | 46.77 | 46.77 | 0 | 47.28 | 47.28 | 0 | |
| 214710 | 45.39 | 45.39 | 0 | 46.51 | 46.51 | 0 | 47.23 | 47.23 | 0 | 47.8 | 47.8 | 0 | 51.05 | 51.05 | 0 | |
| 214720 | 29.68 | 29.68 | 0 | 30.61 | 30.61 | 0 | 31.26 | 31.26 | 0 | 31.46 | 31.46 | 0 | 32.21 | 32.21 | 0 | |
| 214730 | 31.04 | 31.04 | 0 | 32.01 | 32.01 | 0 | 32.5 | 32.5 | 0 | 32.68 | 32.68 | 0 | 33.42 | 33.42 | 0 | |
| 214740 | 31.05 | 31.05 | 0 | 31.84 | 31.84 | 0 | 32.62 | 32.62 | 0 | 32.97 | 32.97 | 0 | 34.47 | 34.47 | 0 | |
| 214750 | 30.9 | 30.9 | 0 | 31.59 | 31.59 | 0 | 32.04 | 32.04 | 0 | 32.22 | 32.22 | 0 | 32.97 | 32.97 | 0 | |
| 214760 | 30.88 | 30.88 | 0 | 31.57 | 31.57 | 0 | 32.03 | 32.03 | 0 | 32.21 | 32.21 | 0 | 32.97 | 32.97 | 0 | |
| 214770 | 30.88 | 30.88 | 0 | 31.56 | 31.56 | 0 | 32.02 | 32.02 | 0 | 32.19 | 32.19 | 0 | 32.93 | 32.93 | 0 | |
| 214780 | 30.88 | 30.88 | 0 | 31.55 | 31.55 | 0 | 31.96 | 31.96 | 0 | 32.12 | 32.12 | 0 | 32.78 | 32.78 | 0 | |
| 214790 | 29.65 | 29.65 | 0 | 31.16 | 31.16 | 0 | 31.56 | 31.56 | 0 | 31.77 | 31.77 | 0 | 32.65 | 32.65 | 0 | |
| 214800 | 29.65 | 29.65 | 0 | 31.17 | 31.17 | 0 | 31.56 | 31.56 | 0 | 31.77 | 31.77 | 0 | 32.65 | 32.65 | 0 | |
| 214810 | 29.89 | 29.89 | 0 | 31.65 | 31.65 | 0 | 31.96 | 31.96 | 0 | 32.07 | 32.07 | 0 | 32.67 | 32.67 | 0 | |
| 214820 | 34.97 | 34.97 | 0 | 35.16 | 35.16 | 0 | 35.26 | 35.26 | 0 | 35.32 | 35.32 | 0 | 35.62 | 35.62 | 0 | |
| 214830 | 38.28 | 38.28 | 0 | 38.44 | 38.44 | 0 | 38.51 | 38.51 | 0 | 38.55 | 38.55 | 0 | 38.81 | 38.81 | 0 | |
| 214840 | 39.06 | 39.06 | 0 | 39.24 | 39.24 | 0 | 39.3 | 39.3 | 0 | 39.33 | 39.33 | 0 | 39.44 | 39.44 | 0 | |
| 214850 | 37.55 | 37.55 | 0 | 38.15 | 38.15 | 0 | 39 | 39 | 0 | 39.37 | 39.37 | 0 | 40.88 | 40.88 | 0 | |
| 214860 | 40.74 | 40.74 | 0 | 41.41 | 41.41 | 0 | 41.58 | 41.58 | 0 | 41.64 | 41.64 | 0 | 41.86 | 41.86 | 0 | |
| 214870 | 38.62 | 38.62 | 0 | 39.78 | 39.78 | 0 | 39.99 | 39.99 | 0 | 40.06 | 40.06 | 0 | 40.32 | 40.32 | 0 | |
| 214880 | 38.62 | 38.62 | 0 | 39.78 | 39.78 | 0 | 39.98 | 39.98 | 0 | 40.05 | 40.05 | 0 | 40.31 | 40.31 | 0 | |
| 214890 | 43.89 | 43.89 | 0 | 44.53 | 44.53 | 0 | 44.76 | 44.76 | 0 | 44.85 | 44.85 | 0 | 45.3 | 45.3 | 0 | |
| 214900 | 43.97 | 43.97 | 0 | 44.54 | 44.54 | 0 | 44.76 | 44.76 | 0 | 44.85 | 44.85 | 0 | 45.3 | 45.3 | 0 | |
| 214910 | 44.42 | 44.42 | 0 | 45.12 | 45.12 | 0 | 45.54 | 45.54 | 0 | 45.74 | 45.74 | 0 | 46.73 | 46.73 | 0 | |
| 214920 | 49.36 | 49.36 | 0 | 49.97 | 49.97 | 0 | 50.24 | 50.24 | 0 | 50.35 | 50.35 | 0 | 50.78 | 50.78 | 0 | |
| 214930 | 34.03 | 34.03 | 0 | 35.16 | 35.16 | 0 | 35.88 | 35.88 | 0 | 36.28 | 36.28 | 0 | 39.98 | 39.98 | 0 | |
| 214940 | 44.44 | 44.44 | 0 | 45.17 | 45.17 | 0 | 46.94 | 46.94 | 0 | 48.21 | 48.21 | 0 | 50.01 | 50.01 | 0 | |
| 214950 | 46.63 | 46.63 | 0 | 48.63 | 48.63 | 0 | 48.91 | 48.91 | 0 | 49.04 | 49.04 | 0 | 50.02 | 50.02 | 0 | |
| 214960 | 46.64 | 46.64 | 0 | 48.75 | 48.75 | 0 | 49.51 | 49.51 | 0 | 49.91 | 49.91 | 0 | 51.08 | 51.08 | 0 | |
| 214970 | 48.49 | 48.49 | 0 | 49.92 | 49.92 | 0 | 50.3 | 50.3 | 0 | 50.41 | 50.41 | 0 | 51.09 | 51.09 | 0 | |
| 214980 | 46.64 | 46.64 | 0 | 48.56 | 48.56 | 0 | 48.75 | 48.75 | 0 | 48.81 | 48.81 | 0 | 49.17 | 49.17 | 0 | |
| 214990 | 46.67 | 46.67 | 0 | 48.41 | 48.41 | 0 | 48.6 | 48.6 | 0 | 48.66 | 48.66 | 0 | 49.02 | 49.02 | 0 | |
| 215000 | 44.27 | 44.27 | 0 | 45.12 | 45.12 | 0 | 45.54 | 45.54 | 0 | 45.74 | 45.74 | 0 | 46.73 | 46.73 | 0 | |
| 215010 | 44.27 | 44.27 | 0 | 45.12 | 45.12 | 0 | 45.54 | 45.54 | 0 | 45.74 | 45.74 | 0 | 46.73 | 46.73 | 0 | |
| 215020 | 45.79 | 45.79 | 0 | 46.53 | 46.53 | 0 | 47.08 | 47.08 | 0 | 47.4 | 47.4 | 0 | 48.8 | 48.8 | 0 | |
| 215030 | 47.82 | 47.82 | 0 | 49.26 | 49.26 | 0 | 49.7 | 49.7 | 0 | 49.85 | 49.85 | 0 | 50.52 | 50.52 | 0 | |
| 215040 | 47.84 | 47.84 | 0 | 49.34 | 49.34 | 0 | 49.82 | 49.82 | 0 | 50.01 | 50.01 | 0 | 50.9 | 50.9 | 0 | |
| 215050 | 49.36 | 49.36 | 0 | 49.49 | 49.49 | 0 | 49.83 | 49.83 | 0 | 50.02 | 50.02 | 0 | 50.91 | 50.91 | 0 | |
| 215060 | 49.64 | 49.64 | 0 | 49.81 | 49.81 | 0 | 49.9 | 49.9 | 0 | 49.97 | 49.97 | 0 | 50.54 | 50.54 | 0 | |
| 215100 | 24.89 | 24.89 | 0 | 26.25 | 26.25 | 0 | 26.81 | 26.81 | 0 | 27.09 | 27.09 | 0 | 28.27 | 28.27 | 0 | |
| 215110 | 24.89 | 24.89 | 0 | 26.25 | 26.25 | 0 | 26.81 | 26.81 | 0 | 27.09 | 27.09 | 0 | 28.28 | 28.28 | 0 | |
| 215120 | 24.89 | 24.89 | 0 | 26.25 | 26.25 | 0 | 26.81 | 26.81 | 0 | 27.09 | 27.09 | 0 | 28.28 | 28.28 | 0 | |
| 215130 | 24.89 | 24.89 | 0 | 26.25 | 26.25 | 0 | 26.81 | 26.81 | 0 | 27.09 | 27.09 | 0 | 28.28 | 28.28 | 0 | |
| 215140 | 24.89 | 24.89 | 0 | 26.25 | 26.25 | 0 | 26.81 | 26.81 | 0 | 27.09 | 27.09 | 0 | 28.29 | 28.29 | 0 | |
| 215150 | 27.58 | 27.58 | 0 | 28.12 | 28.12 | 0 | 28.33 | 28.33 | 0 | 28.42 | 28.42 | 0 | 28.8 | 28.8 | 0 | |
| 215160 | 26.08 | 26.08 | 0 | 26.66 | 26.66 | 0 | 26.91 | 26.91 | 0 | 27.1 | 27.1 | 0 | 28.4 | 28.4 | 0 | |
| 215190 | 24.89 | 24.89 | 0 | 26.28 | 26.28 | 0 | 26.87 | 26.87 | 0 | 27.16 | 27.16 | 0 | 28.28 | 28.28 | 0 | |
| 215200 | 24.89 | 24.89 | 0 | 26.28 | 26.28 | 0 | 26.87 | 26.87 | 0 | 27.16 | 27.16 | 0 | 28.28 | 28.28 | 0 | |
| 215210 | 24.89 | 24.89 | 0 | 26.28 | 26.28 | 0 | 26.87 | 26.87 | 0 | 27.16 | 27.16 | 0 | 28.28 | 28.28 | 0 | |
| 215220 | 25.02 | 25.02 | 0 | 26.36 | 26.36 | 0 | 26.9 | 26.9 | 0 | 27.17 | 27.17 | 0 | 28.29 | 28.29 | 0 | |
| 215230 | 28.97 | 28.97 | 0 | 29.64 | 29.64 | 0 | 30 | 30 | 0 | 30.18 | 30.18 | 0 | 31.02 | 31.02 | 0 | |
| 215240 | 28.97 | 28.97 | 0 | 29.64 | 29.64 | 0 | 30 | 30 | 0 | 30.18 | 30.18 | 0 | 31.02 | 31.02 | 0 | |
| 215250 | 28.96 | 28.96 | 0 | 29.64 | 29.64 | 0 | 30 | 30 | 0 | 30.18 | 30.18 | 0 | 31.02 | 31.02 | 0 | |
| 215260 | 26.39 | 26.39 | 0 | 26.66 | 26.66 | 0 | 26.91 | 26.91 | 0 | 27.1 | 27.1 | 0 | 28.4 | 28.4 | 0 | |
| 215270 | 28.37 | 28.37 | 0 | 28.53 | 28.53 | 0 | 28.65 | 28.65 | 0 | 28.71 | 28.71 | 0 | 29.01 | 29.01 | 0 | |
| | | | | | | | | | | | | | | | | |

Summary of Corrected and Revised Stages for Bridge Culvert

| Node | 2.33YR24HR | | | 25YR24HR | | | 50YR24HR | | | 100YR24HR | | | 500YR24HR | | | Notes |
|--------|--------------------------------|---------------------|-----------------|--------------------------------|---------------------|-----------------|--------------------------------|---------------------|-----------------|--------------------------------|---------------------|-----------------|--------------------------------|---------------------|-----------------|-------|
| | Corrected Effective Stage (ft) | Proposed Stage (ft) | Difference (ft) | Corrected Effective Stage (ft) | Proposed Stage (ft) | Difference (ft) | Corrected Effective Stage (ft) | Proposed Stage (ft) | Difference (ft) | Corrected Effective Stage (ft) | Proposed Stage (ft) | Difference (ft) | Corrected Effective Stage (ft) | Proposed Stage (ft) | Difference (ft) | |
| 215330 | 25.39 | 25.39 | 0 | 26.54 | 26.54 | 0 | 27.03 | 27.03 | 0 | 27.32 | 27.32 | 0 | 28.51 | 28.51 | 0 | |
| 215400 | 28.33 | 28.33 | 0 | 28.83 | 28.83 | 0 | 29.09 | 29.09 | 0 | 29.19 | 29.19 | 0 | 29.6 | 29.6 | 0 | |
| 215410 | 28.33 | 28.33 | 0 | 28.83 | 28.83 | 0 | 29.09 | 29.09 | 0 | 29.19 | 29.19 | 0 | 29.6 | 29.6 | 0 | |
| 215420 | 28.39 | 28.39 | 0 | 29.12 | 29.12 | 0 | 29.52 | 29.52 | 0 | 29.72 | 29.72 | 0 | 30.79 | 30.79 | 0 | |
| 215430 | 28.88 | 28.88 | 0 | 29.52 | 29.52 | 0 | 29.87 | 29.87 | 0 | 30.05 | 30.05 | 0 | 30.89 | 30.89 | 0 | |
| 215440 | 26.45 | 26.45 | 0 | 27.9 | 27.9 | 0 | 28.48 | 28.48 | 0 | 28.74 | 28.74 | 0 | 29.82 | 29.82 | 0 | |
| 215450 | 27.19 | 27.19 | 0 | 28.37 | 28.37 | 0 | 28.92 | 28.92 | 0 | 29.08 | 29.08 | 0 | 29.98 | 29.98 | 0 | |
| 215460 | 27.79 | 27.79 | 0 | 28.64 | 28.64 | 0 | 29.1 | 29.1 | 0 | 29.32 | 29.32 | 0 | 30.37 | 30.37 | 0 | |
| 215500 | 26.61 | 26.61 | 0 | 27.9 | 27.9 | 0 | 28.47 | 28.47 | 0 | 28.73 | 28.73 | 0 | 29.7 | 29.7 | 0 | |
| 215510 | 27.67 | 27.67 | 0 | 28.6 | 28.6 | 0 | 29.01 | 29.01 | 0 | 29.18 | 29.18 | 0 | 29.96 | 29.96 | 0 | |
| 215520 | 28.27 | 28.27 | 0 | 30.65 | 30.65 | 0 | 31.78 | 31.78 | 0 | 32.28 | 32.28 | 0 | 34.01 | 34.01 | 0 | |
| 215530 | 28.28 | 28.28 | 0 | 30.74 | 30.74 | 0 | 31.89 | 31.89 | 0 | 32.39 | 32.39 | 0 | 34.14 | 34.14 | 0 | |
| 215540 | 28.83 | 28.83 | 0 | 31.65 | 31.65 | 0 | 32.29 | 32.29 | 0 | 32.54 | 32.54 | 0 | 34.15 | 34.15 | 0 | |
| 215550 | 28.86 | 28.86 | 0 | 31.77 | 31.77 | 0 | 32.61 | 32.61 | 0 | 32.96 | 32.96 | 0 | 34.47 | 34.47 | 0 | |
| 215560 | 32.82 | 32.82 | 0 | 33.13 | 33.13 | 0 | 33.61 | 33.61 | 0 | 34.02 | 34.02 | 0 | 36.84 | 36.84 | 0 | |
| 215570 | 39.31 | 39.31 | 0 | 39.98 | 39.98 | 0 | 39.94 | 39.94 | 0 | 39.74 | 39.74 | 0 | 39.84 | 39.84 | 0 | |
| 215580 | 49.21 | 49.21 | 0 | 51.54 | 51.54 | 0 | 52.35 | 52.35 | 0 | 52.64 | 52.64 | 0 | 53.67 | 53.67 | 0 | |
| 215590 | 50.81 | 50.81 | 0 | 51.83 | 51.83 | 0 | 52.41 | 52.41 | 0 | 52.68 | 52.68 | 0 | 53.68 | 53.68 | 0 | |
| 215600 | 50.87 | 50.87 | 0 | 52.14 | 52.14 | 0 | 52.81 | 52.81 | 0 | 53.14 | 53.14 | 0 | 54.6 | 54.6 | 0 | |
| 215610 | 38.14 | 38.14 | 0 | 39.25 | 39.25 | 0 | 39.35 | 39.35 | 0 | 39.4 | 39.4 | 0 | 39.52 | 39.52 | 0 | |
| 215620 | 39.2 | 39.2 | 0 | 39.25 | 39.25 | 0 | 39.41 | 39.41 | 0 | 39.53 | 39.53 | 0 | 39.89 | 39.89 | 0 | |
| 215630 | 39.9 | 39.9 | 0 | 40.62 | 40.62 | 0 | 40.96 | 40.96 | 0 | 41.12 | 41.12 | 0 | 41.86 | 41.86 | 0 | |
| 215640 | 38.33 | 38.33 | 0 | 38.62 | 38.62 | 0 | 38.74 | 38.74 | 0 | 38.79 | 38.79 | 0 | 39 | 39 | 0 | |
| 215650 | 39.74 | 39.74 | 0 | 40.48 | 40.48 | 0 | 40.87 | 40.87 | 0 | 41.06 | 41.06 | 0 | 41.87 | 41.87 | 0 | |
| 215660 | 43.45 | 43.45 | 0 | 44.68 | 44.68 | 0 | 45.08 | 45.08 | 0 | 45.24 | 45.24 | 0 | 45.99 | 45.99 | 0 | |
| 215670 | 44.24 | 44.24 | 0 | 44.84 | 44.84 | 0 | 45.18 | 45.18 | 0 | 45.33 | 45.33 | 0 | 46.03 | 46.03 | 0 | |
| 215680 | 26.25 | 26.25 | 0 | 27.9 | 27.9 | 0 | 28.5 | 28.5 | 0 | 28.76 | 28.76 | 0 | 29.74 | 29.74 | 0 | |
| 215690 | 26.25 | 26.25 | 0 | 27.9 | 27.9 | 0 | 28.5 | 28.5 | 0 | 28.76 | 28.76 | 0 | 29.74 | 29.74 | 0 | |
| 215700 | 26.39 | 26.39 | 0 | 27.9 | 27.9 | 0 | 28.5 | 28.5 | 0 | 28.76 | 28.76 | 0 | 29.74 | 29.74 | 0 | |
| 215710 | 26.45 | 26.45 | 0 | 28.38 | 28.38 | 0 | 29.11 | 29.11 | 0 | 29.46 | 29.46 | 0 | 30.76 | 30.76 | 0 | |
| 215720 | 26.45 | 26.45 | 0 | 28.39 | 28.39 | 0 | 29.45 | 29.45 | 0 | 29.83 | 29.83 | 0 | 30.76 | 30.76 | 0 | |
| 215730 | 27.95 | 27.95 | 0 | 29.6 | 29.6 | 0 | 30.08 | 30.08 | 0 | 30.24 | 30.24 | 0 | 30.86 | 30.86 | 0 | |
| 215740 | 28.28 | 28.28 | 0 | 28.74 | 28.74 | 0 | 29.42 | 29.42 | 0 | 29.74 | 29.74 | 0 | 30.95 | 30.95 | 0 | |
| 215750 | 28.86 | 28.86 | 0 | 29.17 | 29.17 | 0 | 29.42 | 29.42 | 0 | 29.73 | 29.73 | 0 | 30.93 | 30.93 | 0 | |
| 215800 | 27.42 | 27.42 | 0 | 29.25 | 29.25 | 0 | 29.9 | 29.9 | 0 | 30.18 | 30.18 | 0 | 31.32 | 31.32 | 0 | |
| 215810 | 28.45 | 28.45 | 0 | 29.49 | 29.49 | 0 | 30.07 | 30.07 | 0 | 30.32 | 30.32 | 0 | 31.39 | 31.39 | 0 | |
| 215820 | 28.63 | 28.63 | 0 | 29.53 | 29.53 | 0 | 30.09 | 30.09 | 0 | 30.34 | 30.34 | 0 | 31.4 | 31.4 | 0 | |
| 215830 | 29.01 | 29.01 | 0 | 29.9 | 29.9 | 0 | 30.32 | 30.32 | 0 | 30.55 | 30.55 | 0 | 31.51 | 31.51 | 0 | |
| 215840 | 29.18 | 29.18 | 0 | 30.33 | 30.33 | 0 | 30.88 | 30.88 | 0 | 31.13 | 31.13 | 0 | 32.2 | 32.2 | 0 | |
| 215850 | 29.23 | 29.23 | 0 | 30.37 | 30.37 | 0 | 30.91 | 30.91 | 0 | 31.16 | 31.16 | 0 | 32.21 | 32.21 | 0 | |
| 215860 | 29.25 | 29.25 | 0 | 30.41 | 30.41 | 0 | 30.96 | 30.96 | 0 | 31.21 | 31.21 | 0 | 32.28 | 32.28 | 0 | |
| 215870 | 29.25 | 29.25 | 0 | 30.41 | 30.41 | 0 | 30.96 | 30.96 | 0 | 31.22 | 31.22 | 0 | 32.28 | 32.28 | 0 | |
| 215880 | 29.25 | 29.25 | 0 | 30.41 | 30.41 | 0 | 30.96 | 30.96 | 0 | 31.22 | 31.22 | 0 | 32.29 | 32.29 | 0 | |
| 215890 | 29.26 | 29.26 | 0 | 30.41 | 30.41 | 0 | 30.96 | 30.96 | 0 | 31.22 | 31.22 | 0 | 32.29 | 32.29 | 0 | |
| 215900 | 29.27 | 29.27 | 0 | 30.41 | 30.41 | 0 | 30.96 | 30.96 | 0 | 31.22 | 31.22 | 0 | 32.31 | 32.31 | 0 | |
| 215910 | 29.27 | 29.27 | 0 | 30.41 | 30.41 | 0 | 30.96 | 30.96 | 0 | 31.22 | 31.22 | 0 | 32.31 | 32.31 | 0 | |
| 215920 | 29.28 | 29.28 | 0 | 30.41 | 30.41 | 0 | 30.96 | 30.96 | 0 | 31.22 | 31.22 | 0 | 32.32 | 32.32 | 0 | |
| 215930 | 29.28 | 29.28 | 0 | 30.41 | 30.41 | 0 | 30.96 | 30.96 | 0 | 31.22 | 31.22 | 0 | 32.32 | 32.32 | 0 | |
| 215940 | 29.28 | 29.28 | 0 | 30.41 | 30.41 | 0 | 30.96 | 30.96 | 0 | 31.22 | 31.22 | 0 | 32.32 | 32.32 | 0 | |
| 215950 | 29.29 | 29.29 | 0 | 30.41 | 30.41 | 0 | 30.96 | 30.96 | 0 | 31.22 | 31.22 | 0 | 32.32 | 32.32 | 0 | |
| 215960 | 29.29 | 29.29 | 0 | 30.41 | 30.41 | 0 | 30.95 | 30.95 | 0 | 31.22 | 31.22 | 0 | 32.32 | 32.32 | 0 | |
| 215970 | 29.31 | 29.31 | 0 | 30.48 | 30.48 | 0 | 31 | 31 | 0 | 31.26 | 31.26 | 0 | 32.35 | 32.35 | 0 | |
| 215980 | 29.31 | 29.31 | 0 | 30.5 | 30.5 | 0 | 31.04 | 31.04 | 0 | 31.29 | 31.29 | 0 | 32.44 | 32.44 | 0 | |
| 215990 | 29.36 | 29.36 | 0 | 30.62 | 30.62 | 0 | 31.16 | 31.16 | 0 | 31.4 | 31.4 | 0 | 32.56 | 32.56 | 0 | |
| 216000 | 29.36 | 29.36 | 0 | 30.65 | 30.65 | 0 | 31.2 | 31.2 | 0 | 31.44 | 31.44 | 0 | 32.6 | 32.6 | 0 | |
| 216010 | 29.38 | 29.38 | 0 | 30.8 | 30.8 | 0 | 31.38 | 31.38 | 0 | 31.62 | 31.62 | 0 | 32.74 | 32.74 | 0 | |
| 216020 | 29.39 | 29.39 | 0 | 30.95 | 30.95 | 0 | 31.61 | 31.61 | 0 | 31.85 | 31.85 | 0 | 32.89 | 32.89 | 0 | |
| 216030 | 29.41 | 29.41 | 0 | 30.99 | 30.99 | 0 | 31.66 | 31.66 | 0 | 31.89 | 31.89 | 0 | 32.92 | 32.92 | 0 | |
| 216040 | 29.5 | 29.5 | 0 | 31.7 | 31.7 | 0 | 32.19 | 32.19 | 0 | 32.37 | 32.37 | 0 | 33.2 | 33.2 | 0 | |
| 216050 | 30.06 | 30.06 | 0 | 32.04 | 32.04 | 0 | 32.58 | 32.58 | 0 | 32.78 | 32.78 | 0 | 33.61 | 33.61 | 0 | |
| 216060 | 30.21 | 30.21 | 0 | 32.12 | 32.12 | 0 | 32.66 | 32.66 | 0 | 32.87 | 32.87 | 0 | 33.7 | 33.7 | 0 | |
| 216070 | 31.44 | 31.44 | 0 | 32.96 | 32.96 | 0 | 33.58 | 33.58 | 0 | 33.83 | 33.83 | 0 | 34.84 | 34.84 | 0 | |
| 216080 | 31.51 | 31.51 | 0 | 33.48 | 33.48 | 0 | 34.67 | 34.67 | 0 | 34.95 | 34.95 | 0 | 35.93 | 35.93 | 0 | |
| 216090 | 31.64 | 31.64 | 0 | 32.94 | 32.94 | 0 | 33.43 | 33.43 | 0 | 33.51 | 33.51 | 0 | 35.42 | 35.42 | 0 | |
| 216100 | 30.33 | 30.33 | 0 | 32.25 | 32.25 | 0 | 33.1 | 33.1 | 0 | 33.49 | 33.49 | 0 | 35.48 | 35.48 | 0 | |
| 216110 | 31.82 | 31.82 | 0 | 32.77 | 32.77 | 0 | 33.39 | 33.39 | 0 | 33.68 | 33.68 | 0 | 35.48 | 35.48 | 0 | |
| 216120 | 31.93 | 31.93 | 0 | 32.77 | 32.77 | 0 | 33.6 | 33.6 | 0 | 33.99 | 33.99 | 0 | 36.61 | 36.61 | 0 | |
| 216130 | 29.72 | 29.72 | 0 | 33.05 | 33.05 | 0 | 34.24 | 34.24 | 0 | 35.07 | 35.07 | 0 | 36.73 | 36.73 | 0 | |
| 216140 | 29.72 | 29.72 | 0 | 33.05 | 33.05 | 0 | 35.15 | 35.15 | 0 | 36.2 | 36.2 | 0 | 38.27 | 38.27 | 0 | |
| 216150 | 29.71 | 29.71 | 0 | 32.98 | 32.98 | 0 | 35.79 | 35.79 | 0 | 36.68 | 36.68 | 0 | 38.48 | 38.48 | 0 | |
| 216160 | 30.07 | 30.07 | 0 | 30.49 | 30.49 | 0 | 30.67 | 30.67 | 0 | 30.75 | 30.75 | 0 | 31.39 | 31.39 | 0 | |
| 216170 | 28.8 | 28.8 | 0 | 29.9 | 29.9 | 0 | 30.33 | 30.33 | 0 | 30.52 | 30.52 | 0 | 31.4 | 31.4 | 0 | |
| 216180 | 29.08 | 29.08 | 0 | 29.93 | 29.93 | 0 | 30.34 | 30.34 | 0 | 30.53 | 30.53 | 0 | 31.4 | 31.4 | 0 | |
| 216190 | 29.08 | 29.08 | 0 | 29.94 | 29.94 | 0 | 30.35 | 30.35 | 0 | 30.53 | 30.53 | 0 | 31.4 | 31.4 | 0 | |
| 216200 | 28.81 | 28.81 | 0 | 29.77 | 29.77 | 0 | 30.26 | 30.26 | 0 | 30.48 | 30.48 | 0 | 31.5 | 31.5 | 0 | |
| 216210 | 28.82 | 28.82 | 0 | 29.79 | 29.79 | 0 | 30.28 | 30.28 | 0 | 30.5 | 30.5 | 0 | 31.51 | 31.51 | 0 | |
| 216220 | 29.05 | 29.05 | 0 | 29.85 | 29.85 | 0 | 30.3 | 30.3 | 0 | 30.51 | 30.51 | 0 | 31.51 | 31.51 | 0 | |
| 216230 | 28.81 | 28.81 | 0 | 29.77 | 29.77 | 0 | 30.26 | 30.26 | 0 | 30.48 | 30.48 | 0 | 31.5 | 31.5 | 0 | |
| 216240 | 29.34 | 29.34 | 0 | 30.09 | 30.09 | 0 | 30.51 | 30.51 | 0 | 30.68 | 30.68 | 0 | 31.51 | 31.51 | 0 | |
| 216250 | 29.82 | 29.82 | 0 | 30.4 | 30.4 | 0 | 30.68 | 30.68 | 0 | 30.82 | 30.82 | 0 | 31.51 | 31.51 | 0 | |
| 216260 | 29.38 | 29.38 | 0 | 30.37 | 30.37 | 0 | 30.91 | 30.91 | 0 | 31.16 | 31.16 | 0 | 32.21 | 32.21 | 0 | |
| 216270 | 29.23 | 29.23 | 0 | 30.37 | 30.37 | 0 | 30.91 | 30.91 | 0 | 31.16 | 31.16 | 0 | 32.21 | 32.21 | 0 | |
| 216280 | 29.25 | 29.25 | 0 | 30.41 | 30.41 | 0 | 30.96 | 30.96 | 0 | 31.21 | 31.21 | 0 | 32.18 | 32.18 | 0 | |

Summary of Corrected and Revised Stages for Bridge Culvert

| Node | 2.33YR24HR | | | 25YR24HR | | | 50YR24HR | | | 100YR24HR | | | 500YR24HR | | | Notes |
|--------|--------------------------------|---------------------|-----------------|--------------------------------|---------------------|-----------------|--------------------------------|---------------------|-----------------|--------------------------------|---------------------|-----------------|--------------------------------|---------------------|-----------------|-------|
| | Corrected Effective Stage (ft) | Proposed Stage (ft) | Difference (ft) | Corrected Effective Stage (ft) | Proposed Stage (ft) | Difference (ft) | Corrected Effective Stage (ft) | Proposed Stage (ft) | Difference (ft) | Corrected Effective Stage (ft) | Proposed Stage (ft) | Difference (ft) | Corrected Effective Stage (ft) | Proposed Stage (ft) | Difference (ft) | |
| 216340 | 29.26 | 29.26 | 0 | 30.41 | 30.41 | 0 | 30.96 | 30.96 | 0 | 31.22 | 31.22 | 0 | 32.3 | 32.3 | 0 | |
| 216350 | 29.27 | 29.27 | 0 | 30.42 | 30.42 | 0 | 30.97 | 30.97 | 0 | 31.23 | 31.23 | 0 | 32.31 | 32.31 | 0 | |
| 216360 | 29.32 | 29.32 | 0 | 30.62 | 30.62 | 0 | 31.31 | 31.31 | 0 | 31.65 | 31.65 | 0 | 32.42 | 32.42 | 0 | |
| 216370 | 30.76 | 30.76 | 0 | 31.43 | 31.43 | 0 | 31.71 | 31.71 | 0 | 31.83 | 31.83 | 0 | 32.42 | 32.42 | 0 | |
| 216380 | 29.39 | 29.39 | 0 | 30.22 | 30.22 | 0 | 30.62 | 30.62 | 0 | 30.79 | 30.79 | 0 | 31.55 | 31.55 | 0 | |
| 216390 | 29.39 | 29.39 | 0 | 30.22 | 30.22 | 0 | 30.59 | 30.59 | 0 | 30.73 | 30.73 | 0 | 31.37 | 31.37 | 0 | |
| 216400 | 44.2 | 44.2 | 0 | 46.17 | 46.17 | 0 | 46.72 | 46.72 | 0 | 46.93 | 46.93 | 0 | 47.92 | 47.92 | 0 | |
| 216410 | 29.45 | 29.45 | 0 | 30.93 | 30.93 | 0 | 31.47 | 31.47 | 0 | 31.72 | 31.72 | 0 | 33.75 | 33.75 | 0 | |
| 216420 | 31.39 | 31.39 | 0 | 32.47 | 32.47 | 0 | 33 | 33 | 0 | 33.24 | 33.24 | 0 | 33.83 | 33.83 | 0 | |
| 216430 | 31.17 | 31.17 | 0 | 32.32 | 32.32 | 0 | 32.79 | 32.79 | 0 | 32.93 | 32.93 | 0 | 33.54 | 33.54 | 0 | |
| 216440 | 33.29 | 33.29 | 0 | 35.13 | 35.13 | 0 | 36.21 | 36.21 | 0 | 36.41 | 36.41 | 0 | 36.97 | 36.97 | 0 | |
| 216450 | 35.81 | 35.81 | 0 | 36.44 | 36.44 | 0 | 36.64 | 36.64 | 0 | 36.73 | 36.73 | 0 | 37.11 | 37.11 | 0 | |
| 216460 | 27.85 | 27.85 | 0 | 30.22 | 30.22 | 0 | 30.59 | 30.59 | 0 | 30.73 | 30.73 | 0 | 31.37 | 31.37 | 0 | |
| 216470 | 29.71 | 29.71 | 0 | 30.99 | 30.99 | 0 | 31.63 | 31.63 | 0 | 31.87 | 31.87 | 0 | 32.89 | 32.89 | 0 | |
| 216480 | 30.68 | 30.68 | 0 | 31.43 | 31.43 | 0 | 31.74 | 31.74 | 0 | 31.9 | 31.9 | 0 | 32.89 | 32.89 | 0 | |
| 216490 | 29.5 | 29.5 | 0 | 31.7 | 31.7 | 0 | 32.19 | 32.19 | 0 | 32.37 | 32.37 | 0 | 33.2 | 33.2 | 0 | |
| 216500 | 31.83 | 31.83 | 0 | 32.37 | 32.37 | 0 | 32.6 | 32.6 | 0 | 32.68 | 32.68 | 0 | 33.2 | 33.2 | 0 | |
| 216510 | 31.14 | 31.14 | 0 | 32.95 | 32.95 | 0 | 33.58 | 33.58 | 0 | 33.83 | 33.83 | 0 | 34.84 | 34.84 | 0 | |
| 216520 | 31.45 | 31.45 | 0 | 32.96 | 32.96 | 0 | 33.58 | 33.58 | 0 | 33.83 | 33.83 | 0 | 34.84 | 34.84 | 0 | |
| 216530 | 34.04 | 34.04 | 0 | 34.76 | 34.76 | 0 | 35.07 | 35.07 | 0 | 35.24 | 35.24 | 0 | 36.09 | 36.09 | 0 | |
| 216540 | 34.13 | 34.13 | 0 | 36.85 | 36.85 | 0 | 37.32 | 37.32 | 0 | 37.41 | 37.41 | 0 | 37.82 | 37.82 | 0 | |
| 216550 | 34.19 | 34.19 | 0 | 36.85 | 36.85 | 0 | 37.32 | 37.32 | 0 | 37.41 | 37.41 | 0 | 37.82 | 37.82 | 0 | |
| 216560 | 34.19 | 34.19 | 0 | 37.86 | 37.86 | 0 | 38.51 | 38.51 | 0 | 38.77 | 38.77 | 0 | 39.81 | 39.81 | 0 | |
| 216570 | 44.25 | 44.25 | 0 | 44.64 | 44.64 | 0 | 44.76 | 44.76 | 0 | 44.82 | 44.82 | 0 | 45.06 | 45.06 | 0 | |
| 216580 | 44.34 | 44.34 | 0 | 44.87 | 44.87 | 0 | 45.07 | 45.07 | 0 | 45.15 | 45.15 | 0 | 45.56 | 45.56 | 0 | |
| 216590 | 31.5 | 31.5 | 0 | 33.8 | 33.8 | 0 | 34.17 | 34.17 | 0 | 34.41 | 34.41 | 0 | 35.69 | 35.69 | 0 | |
| 216600 | 29.32 | 29.32 | 0 | 32.31 | 32.31 | 0 | 33.1 | 33.1 | 0 | 33.49 | 33.49 | 0 | 35.48 | 35.48 | 0 | |
| 216610 | 29.2 | 29.2 | 0 | 30.71 | 30.71 | 0 | 31.54 | 31.54 | 0 | 31.93 | 31.93 | 0 | 35.48 | 35.48 | 0 | |
| 216620 | 32.23 | 32.23 | 0 | 32.99 | 32.99 | 0 | 34.35 | 34.35 | 0 | 34.59 | 34.59 | 0 | 35.48 | 35.48 | 0 | |
| 216630 | 33.62 | 33.62 | 0 | 34.26 | 34.26 | 0 | 34.49 | 34.49 | 0 | 34.66 | 34.66 | 0 | 35.48 | 35.48 | 0 | |
| 216640 | 29.11 | 29.11 | 0 | 32.38 | 32.38 | 0 | 33.1 | 33.1 | 0 | 33.49 | 33.49 | 0 | 35.48 | 35.48 | 0 | |
| 216650 | 37.51 | 37.51 | 0 | 41.56 | 41.56 | 0 | 42.08 | 42.08 | 0 | 42.11 | 42.11 | 0 | 42.53 | 42.53 | 0 | |
| 216660 | 34.2 | 34.2 | 0 | 37.77 | 37.77 | 0 | 39.72 | 39.72 | 0 | 40.62 | 40.62 | 0 | 41.9 | 41.9 | 0 | |
| 216670 | 27.23 | 27.23 | 0 | 33.03 | 33.03 | 0 | 34.46 | 34.46 | 0 | 34.53 | 34.53 | 0 | 35.48 | 35.48 | 0 | |
| 216680 | 39.55 | 39.55 | 0 | 40.03 | 40.03 | 0 | 40.27 | 40.27 | 0 | 40.38 | 40.38 | 0 | 40.85 | 40.85 | 0 | |
| 216690 | 32.37 | 32.37 | 0 | 32.5 | 32.5 | 0 | 33.1 | 33.1 | 0 | 33.49 | 33.49 | 0 | 35.48 | 35.48 | 0 | |
| 216700 | 33.04 | 33.04 | 0 | 33.41 | 33.41 | 0 | 34.31 | 34.31 | 0 | 34.86 | 34.86 | 0 | 38.17 | 38.17 | 0 | |
| 216710 | 37.35 | 37.35 | 0 | 39.67 | 39.67 | 0 | 40.01 | 40.01 | 0 | 40.16 | 40.16 | 0 | 40.58 | 40.58 | 0 | |
| 216720 | 33.48 | 33.48 | 0 | 34.06 | 34.06 | 0 | 34.3 | 34.3 | 0 | 34.42 | 34.42 | 0 | 35.48 | 35.48 | 0 | |
| 216730 | 34.12 | 34.12 | 0 | 34.56 | 34.56 | 0 | 34.79 | 34.79 | 0 | 34.9 | 34.9 | 0 | 35.48 | 35.48 | 0 | |
| 216740 | 31.96 | 31.96 | 0 | 33.44 | 33.44 | 0 | 33.79 | 33.79 | 0 | 34.01 | 34.01 | 0 | 35.52 | 35.52 | 0 | |
| 216750 | 32.82 | 32.82 | 0 | 33.6 | 33.6 | 0 | 33.85 | 33.85 | 0 | 34.03 | 34.03 | 0 | 35.52 | 35.52 | 0 | |
| 216760 | 31.82 | 31.82 | 0 | 32.98 | 32.98 | 0 | 33.72 | 33.72 | 0 | 33.99 | 33.99 | 0 | 35.53 | 35.53 | 0 | |
| 216770 | 42.7 | 42.7 | 0 | 43.52 | 43.52 | 0 | 44.03 | 44.03 | 0 | 44.24 | 44.24 | 0 | 45.1 | 45.1 | 0 | |
| 216780 | 39.65 | 39.65 | 0 | 45.27 | 45.27 | 0 | 45.59 | 45.59 | 0 | 45.72 | 45.72 | 0 | 46.27 | 46.27 | 0 | |
| 216790 | 18.22 | 18.22 | 0 | 21.37 | 21.37 | 0 | 27.35 | 27.35 | 0 | 29.74 | 29.74 | 0 | 39.31 | 39.31 | 0 | |
| 216800 | 42.6 | 42.6 | 0 | 45.02 | 45.02 | 0 | 45.29 | 45.29 | 0 | 45.4 | 45.4 | 0 | 45.86 | 45.86 | 0 | |
| 216810 | 31.87 | 31.87 | 0 | 35.49 | 35.49 | 0 | 36.18 | 36.18 | 0 | 36.39 | 36.39 | 0 | 37.37 | 37.37 | 0 | |
| 216820 | 31.93 | 31.93 | 0 | 32.78 | 32.78 | 0 | 33.59 | 33.59 | 0 | 34.05 | 34.05 | 0 | 35.85 | 35.85 | 0 | |
| 216830 | 33.86 | 33.86 | 0 | 34.33 | 34.33 | 0 | 34.49 | 34.49 | 0 | 34.56 | 34.56 | 0 | 35.85 | 35.85 | 0 | |
| 216840 | 41.32 | 41.32 | 0 | 42.46 | 42.46 | 0 | 43.16 | 43.16 | 0 | 43.42 | 43.42 | 0 | 44.43 | 44.43 | 0 | |
| 216900 | 48.03 | 48.03 | 0 | 48.44 | 48.44 | 0 | 48.64 | 48.64 | 0 | 48.74 | 48.74 | 0 | 49.22 | 49.22 | 0 | |
| 216910 | 67.06 | 67.06 | 0 | 67.41 | 67.41 | 0 | 67.59 | 67.59 | 0 | 67.68 | 67.68 | 0 | 68.13 | 68.13 | 0 | |
| 216920 | 66.75 | 66.75 | 0 | 67.56 | 67.56 | 0 | 68.57 | 68.57 | 0 | 69.09 | 69.09 | 0 | 70.74 | 70.74 | 0 | |
| 217000 | 27.59 | 27.59 | 0 | 29.46 | 29.46 | 0 | 30.11 | 30.11 | 0 | 30.34 | 30.34 | 0 | 31.4 | 31.4 | 0 | |
| 217010 | 28 | 28 | 0 | 29.47 | 29.47 | 0 | 30.11 | 30.11 | 0 | 30.33 | 30.33 | 0 | 31.35 | 31.35 | 0 | |
| 217020 | 28.75 | 28.75 | 0 | 30.02 | 30.02 | 0 | 30.21 | 30.21 | 0 | 30.3 | 30.3 | 0 | 31.24 | 31.24 | 0 | |
| 217030 | 29.05 | 29.05 | 0 | 30.29 | 30.29 | 0 | 30.58 | 30.58 | 0 | 30.7 | 30.7 | 0 | 31.21 | 31.21 | 0 | |
| 217040 | 27.58 | 27.58 | 0 | 29.45 | 29.45 | 0 | 30.11 | 30.11 | 0 | 30.34 | 30.34 | 0 | 31.47 | 31.47 | 0 | |
| 217050 | 27.59 | 27.59 | 0 | 29.46 | 29.46 | 0 | 30.11 | 30.11 | 0 | 30.35 | 30.35 | 0 | 31.47 | 31.47 | 0 | |
| 217060 | 27.59 | 27.59 | 0 | 29.46 | 29.46 | 0 | 30.13 | 30.13 | 0 | 30.38 | 30.38 | 0 | 31.56 | 31.56 | 0 | |
| 217070 | 27.59 | 27.59 | 0 | 29.62 | 29.62 | 0 | 30.52 | 30.52 | 0 | 30.96 | 30.96 | 0 | 33.34 | 33.34 | 0 | |
| 217080 | 27.92 | 27.92 | 0 | 29.62 | 29.62 | 0 | 30.52 | 30.52 | 0 | 30.97 | 30.97 | 0 | 33.34 | 33.34 | 0 | |
| 217090 | 32.41 | 32.41 | 0 | 33.25 | 33.25 | 0 | 33.74 | 33.74 | 0 | 34.02 | 34.02 | 0 | 37.19 | 37.19 | 0 | |
| 217100 | 39.14 | 39.14 | 0 | 40.8 | 40.8 | 0 | 41 | 41 | 0 | 41.1 | 41.1 | 0 | 41.47 | 41.47 | 0 | |
| 217110 | 43.39 | 43.39 | 0 | 43.65 | 43.65 | 0 | 43.75 | 43.75 | 0 | 43.78 | 43.78 | 0 | 44.08 | 44.08 | 0 | |
| 217120 | 44.07 | 44.07 | 0 | 44.94 | 44.94 | 0 | 45.33 | 45.33 | 0 | 45.51 | 45.51 | 0 | 46.32 | 46.32 | 0 | |
| 217122 | 44.07 | 44.07 | 0 | 45.06 | 45.06 | 0 | 45.6 | 45.6 | 0 | 45.85 | 45.85 | 0 | 47.05 | 47.05 | 0 | |
| 217125 | 44.07 | 44.07 | 0 | 45.08 | 45.08 | 0 | 45.62 | 45.62 | 0 | 45.87 | 45.87 | 0 | 47.08 | 47.08 | 0 | |
| 217130 | 48.87 | 48.87 | 0 | 50.63 | 50.63 | 0 | 51.54 | 51.54 | 0 | 51.95 | 51.95 | 0 | 52.84 | 52.84 | 0 | |
| 217140 | 48.88 | 48.88 | 0 | 50.7 | 50.7 | 0 | 51.64 | 51.64 | 0 | 52.06 | 52.06 | 0 | 52.97 | 52.97 | 0 | |
| 217150 | 40.15 | 40.15 | 0 | 40.34 | 40.34 | 0 | 40.43 | 40.43 | 0 | 40.48 | 40.48 | 0 | 40.69 | 40.69 | 0 | |
| 217160 | 27.58 | 27.58 | 0 | 29.45 | 29.45 | 0 | 30.11 | 30.11 | 0 | 30.34 | 30.34 | 0 | 31.47 | 31.47 | 0 | |
| 217170 | 27.58 | 27.58 | 0 | 29.46 | 29.46 | 0 | 30.11 | 30.11 | 0 | 30.34 | 30.34 | 0 | 31.46 | 31.46 | 0 | |
| 217180 | 27.44 | 27.44 | 0 | 29.54 | 29.54 | 0 | 30.11 | 30.11 | 0 | 30.34 | 30.34 | 0 | 31.46 | 31.46 | 0 | |
| 217190 | 29.39 | 29.39 | 0 | 29.62 | 29.62 | 0 | 30.11 | 30.11 | 0 | 30.34 | 30.34 | 0 | 31.46 | 31.46 | 0 | |
| 217200 | 29.53 | 29.53 | 0 | 29.86 | 29.86 | 0 | 30.09 | 30.09 | 0 | 30.27 | 30.27 | 0 | 31.12 | 31.12 | 0 | |
| 217210 | 29.46 | 29.46 | 0 | 31.11 | 31.11 | 0 | 31.75 | 31.75 | 0 | 32.04 | 32.04 | 0 | 33.52 | 33.52 | 0 | |
| 217220 | 27.58 | 27.58 | 0 | 29.45 | 29.45 | 0 | 30.11 | 30.11 | 0 | 30.34 | 30.34 | 0 | 31.47 | 31.47 | 0 | |
| 217230 | 28.06 | 28.06 | 0 | 29.52 | 29.52 | 0 | 30.22 | 30.22 | 0 | 30.53 | 30.53 | 0 | 32.08 | 32.08 | 0 | |
| 217240 | 32.92 | 32.92 | 0 | 33.04 | 33.04 | 0 | 33.13 | 33.13 | 0 | 33.17 | 33.17 | 0 | 33.32 | 33.32 | 0 | |
| 217250 | 35.68 | 35.68 | 0 | 36.14 | 36.14 | 0 | 36.36 | 36.36 | 0 | 36.47 | 36.47 | 0 | 36.99 | 36.99 | 0 | |
| 217260 | 35.42 | 35.42 | 0 | 37.31 | 37.31 | 0 | 38.47 | 38.47 | 0 | 38.99 | 38.99 | 0 | 4 | | | |

Summary of Corrected and Revised Stages for Bridge Culvert

| Node | 2.33YR24HR | | | 25YR24HR | | | 50YR24HR | | | 100YR24HR | | | 500YR24HR | | | Notes |
|--------|--------------------------------|---------------------|-----------------|--------------------------------|---------------------|-----------------|--------------------------------|---------------------|-----------------|--------------------------------|---------------------|-----------------|--------------------------------|---------------------|-----------------|-------|
| | Corrected Effective Stage (ft) | Proposed Stage (ft) | Difference (ft) | Corrected Effective Stage (ft) | Proposed Stage (ft) | Difference (ft) | Corrected Effective Stage (ft) | Proposed Stage (ft) | Difference (ft) | Corrected Effective Stage (ft) | Proposed Stage (ft) | Difference (ft) | Corrected Effective Stage (ft) | Proposed Stage (ft) | Difference (ft) | |
| 217320 | 39.11 | 39.11 | 0 | 40.15 | 40.15 | 0 | 40.22 | 40.22 | 0 | 40.25 | 40.25 | 0 | 40.36 | 40.36 | 0 | |
| 217330 | 35.41 | 35.41 | 0 | 36.58 | 36.58 | 0 | 37.21 | 37.21 | 0 | 37.53 | 37.53 | 0 | 39.16 | 39.16 | 0 | |
| 217340 | 36.42 | 36.42 | 0 | 36.89 | 36.89 | 0 | 37.24 | 37.24 | 0 | 37.54 | 37.54 | 0 | 39.16 | 39.16 | 0 | |
| 217350 | 35.41 | 35.41 | 0 | 36.61 | 36.61 | 0 | 37.38 | 37.38 | 0 | 37.74 | 37.74 | 0 | 39.36 | 39.36 | 0 | |
| 217360 | 37.36 | 37.36 | 0 | 37.86 | 37.86 | 0 | 38.09 | 38.09 | 0 | 38.22 | 38.22 | 0 | 39.37 | 39.37 | 0 | |
| 217370 | 55.09 | 55.09 | 0 | 55.48 | 55.48 | 0 | 55.71 | 55.71 | 0 | 55.82 | 55.82 | 0 | 56.24 | 56.24 | 0 | |
| 217380 | 36.1 | 36.1 | 0 | 37.94 | 37.94 | 0 | 38.86 | 38.86 | 0 | 39.18 | 39.18 | 0 | 40.37 | 40.37 | 0 | |
| 217390 | 38.65 | 38.65 | 0 | 39.11 | 39.11 | 0 | 39.34 | 39.34 | 0 | 39.45 | 39.45 | 0 | 40.38 | 40.38 | 0 | |
| 217400 | 36.47 | 36.47 | 0 | 40.91 | 40.91 | 0 | 42.01 | 42.01 | 0 | 42.39 | 42.39 | 0 | 43.74 | 43.74 | 0 | |
| 217410 | 35.83 | 35.83 | 0 | 36.89 | 36.89 | 0 | 38.19 | 38.19 | 0 | 40.27 | 40.27 | 0 | 45.42 | 45.42 | 0 | |
| 217420 | 41.66 | 41.66 | 0 | 43.77 | 43.77 | 0 | 43.98 | 43.98 | 0 | 44.17 | 44.17 | 0 | 45.45 | 45.45 | 0 | |
| 217430 | 40.13 | 40.13 | 0 | 40.85 | 40.85 | 0 | 41.18 | 41.18 | 0 | 41.32 | 41.32 | 0 | 41.97 | 41.97 | 0 | |
| 217440 | 49.71 | 49.71 | 0 | 50.01 | 50.01 | 0 | 50.16 | 50.16 | 0 | 50.23 | 50.23 | 0 | 50.51 | 50.51 | 0 | |
| 217450 | 49.98 | 49.98 | 0 | 50.37 | 50.37 | 0 | 50.59 | 50.59 | 0 | 50.69 | 50.69 | 0 | 51.16 | 51.16 | 0 | |
| 217460 | 53.16 | 53.16 | 0 | 53.61 | 53.61 | 0 | 53.8 | 53.8 | 0 | 53.88 | 53.88 | 0 | 54.29 | 54.29 | 0 | |
| 217470 | 56.11 | 56.11 | 0 | 56.37 | 56.37 | 0 | 56.45 | 56.45 | 0 | 56.49 | 56.49 | 0 | 56.67 | 56.67 | 0 | |
| 217480 | 48.1 | 48.1 | 0 | 48.25 | 48.25 | 0 | 48.33 | 48.33 | 0 | 48.36 | 48.36 | 0 | 48.55 | 48.55 | 0 | |
| 217490 | 40.19 | 40.19 | 0 | 40.19 | 40.19 | 0 | 40.19 | 40.19 | 0 | 40.19 | 40.19 | 0 | 41.62 | 41.62 | 0 | |
| 217500 | 41.34 | 41.34 | 0 | 43.08 | 43.08 | 0 | 43.94 | 43.94 | 0 | 44.31 | 44.31 | 0 | 45.9 | 45.9 | 0 | |
| 217510 | 38.87 | 38.87 | 0 | 42.55 | 42.55 | 0 | 43.23 | 43.23 | 0 | 43.55 | 43.55 | 0 | 46.45 | 46.45 | 0 | |
| 217520 | 47.51 | 47.51 | 0 | 48.02 | 48.02 | 0 | 48.13 | 48.13 | 0 | 48.19 | 48.19 | 0 | 49.32 | 49.32 | 0 | |
| 217530 | 49.5 | 49.5 | 0 | 51.85 | 51.85 | 0 | 52.74 | 52.74 | 0 | 53.19 | 53.19 | 0 | 54.56 | 54.56 | 0 | |
| 217540 | 52.13 | 52.13 | 0 | 52.97 | 52.97 | 0 | 53.24 | 53.24 | 0 | 53.34 | 53.34 | 0 | 54.04 | 54.04 | 0 | |
| 217550 | 52.69 | 52.69 | 0 | 53.26 | 53.26 | 0 | 53.61 | 53.61 | 0 | 53.76 | 53.76 | 0 | 54.87 | 54.87 | 0 | |
| 217560 | 53.28 | 53.28 | 0 | 54.72 | 54.72 | 0 | 55.35 | 55.35 | 0 | 55.53 | 55.53 | 0 | 56.04 | 56.04 | 0 | |
| 217570 | 58.94 | 58.94 | 0 | 59.35 | 59.35 | 0 | 59.47 | 59.47 | 0 | 59.52 | 59.52 | 0 | 59.78 | 59.78 | 0 | |
| 217580 | 52.5 | 52.5 | 0 | 52.98 | 52.98 | 0 | 53.29 | 53.29 | 0 | 53.45 | 53.45 | 0 | 54.62 | 54.62 | 0 | |
| 217590 | 53.04 | 53.04 | 0 | 54.12 | 54.12 | 0 | 54.75 | 54.75 | 0 | 55.06 | 55.06 | 0 | 55.88 | 55.88 | 0 | |
| 217600 | 28.13 | 28.13 | 0 | 29.03 | 29.03 | 0 | 29.63 | 29.63 | 0 | 29.86 | 29.86 | 0 | 30.96 | 30.96 | 0 | |
| 217610 | 28.8 | 28.8 | 0 | 29.36 | 29.36 | 0 | 30.03 | 30.03 | 0 | 30.29 | 30.29 | 0 | 31.44 | 31.44 | 0 | |
| 217620 | 29.68 | 29.68 | 0 | 31.07 | 31.07 | 0 | 31.32 | 31.32 | 0 | 31.42 | 31.42 | 0 | 31.87 | 31.87 | 0 | |
| 217630 | 30.91 | 30.91 | 0 | 31.2 | 31.2 | 0 | 31.38 | 31.38 | 0 | 31.47 | 31.47 | 0 | 31.88 | 31.88 | 0 | |
| 217640 | 28.82 | 28.82 | 0 | 29.5 | 29.5 | 0 | 30.03 | 30.03 | 0 | 30.29 | 30.29 | 0 | 31.44 | 31.44 | 0 | |
| 220000 | 28.35 | 28.35 | 0 | 29.79 | 29.79 | 0 | 30.43 | 30.43 | 0 | 30.69 | 30.69 | 0 | 31.78 | 31.78 | 0 | |
| 220010 | 28.36 | 28.36 | 0 | 29.83 | 29.83 | 0 | 30.49 | 30.49 | 0 | 30.76 | 30.76 | 0 | 31.89 | 31.89 | 0 | |
| 220020 | 28.48 | 28.48 | 0 | 29.9 | 29.9 | 0 | 30.57 | 30.57 | 0 | 30.84 | 30.84 | 0 | 31.96 | 31.96 | 0 | |
| 220030 | 28.52 | 28.52 | 0 | 29.94 | 29.94 | 0 | 30.61 | 30.61 | 0 | 30.89 | 30.89 | 0 | 32 | 32 | 0 | |
| 220040 | 28.53 | 28.53 | 0 | 29.97 | 29.97 | 0 | 30.66 | 30.66 | 0 | 30.95 | 30.95 | 0 | 32.1 | 32.1 | 0 | |
| 220050 | 28.81 | 28.81 | 0 | 30.28 | 30.28 | 0 | 30.9 | 30.9 | 0 | 31.17 | 31.17 | 0 | 32.28 | 32.28 | 0 | |
| 220060 | 28.81 | 28.81 | 0 | 30.29 | 30.29 | 0 | 30.91 | 30.91 | 0 | 31.19 | 31.19 | 0 | 32.31 | 32.31 | 0 | |
| 220070 | 28.85 | 28.85 | 0 | 30.38 | 30.38 | 0 | 31.04 | 31.04 | 0 | 31.33 | 31.33 | 0 | 32.58 | 32.58 | 0 | |
| 220080 | 29.91 | 29.91 | 0 | 31.07 | 31.07 | 0 | 31.56 | 31.56 | 0 | 31.78 | 31.78 | 0 | 32.77 | 32.77 | 0 | |
| 220090 | 31.5 | 31.5 | 0 | 32.79 | 32.79 | 0 | 33.37 | 33.37 | 0 | 33.65 | 33.65 | 0 | 34.8 | 34.8 | 0 | |
| 220100 | 31.8 | 31.8 | 0 | 33.12 | 33.12 | 0 | 33.65 | 33.65 | 0 | 33.9 | 33.9 | 0 | 34.92 | 34.92 | 0 | |
| 220110 | 32 | 32 | 0 | 33.34 | 33.34 | 0 | 34.08 | 34.08 | 0 | 34.42 | 34.42 | 0 | 35.71 | 35.71 | 0 | |
| 220120 | 32.65 | 32.65 | 0 | 33.79 | 33.79 | 0 | 34.3 | 34.3 | 0 | 34.55 | 34.55 | 0 | 35.74 | 35.74 | 0 | |
| 220130 | 32.71 | 32.71 | 0 | 34.2 | 34.2 | 0 | 35.09 | 35.09 | 0 | 35.38 | 35.38 | 0 | 36.41 | 36.41 | 0 | |
| 220140 | 33.85 | 33.85 | 0 | 35.72 | 35.72 | 0 | 36.03 | 36.03 | 0 | 36.18 | 36.18 | 0 | 36.98 | 36.98 | 0 | |
| 220150 | 33.8 | 33.8 | 0 | 35.64 | 35.64 | 0 | 35.98 | 35.98 | 0 | 36.14 | 36.14 | 0 | 37.03 | 37.03 | 0 | |
| 220160 | 33.32 | 33.32 | 0 | 36.26 | 36.26 | 0 | 38.37 | 38.37 | 0 | 39.56 | 39.56 | 0 | 42.12 | 42.12 | 0 | |
| 220165 | 33.73 | 33.73 | 0 | 36.26 | 36.26 | 0 | 37.3 | 37.3 | 0 | 37.7 | 37.7 | 0 | 39.67 | 39.67 | 0 | |
| 220170 | 34.57 | 34.57 | 0 | 37.75 | 37.75 | 0 | 39.12 | 39.12 | 0 | 39.62 | 39.62 | 0 | 41.29 | 41.29 | 0 | |
| 220180 | 34.6 | 34.6 | 0 | 37.75 | 37.75 | 0 | 39.12 | 39.12 | 0 | 39.62 | 39.62 | 0 | 41.29 | 41.29 | 0 | |
| 220190 | 34.07 | 34.07 | 0 | 36.61 | 36.61 | 0 | 37.69 | 37.69 | 0 | 37.97 | 37.97 | 0 | 39.84 | 39.84 | 0 | |
| 220195 | 34.06 | 34.06 | 0 | 36.73 | 36.73 | 0 | 38.05 | 38.05 | 0 | 38.51 | 38.51 | 0 | 40.21 | 40.21 | 0 | |
| 220200 | 34.09 | 34.09 | 0 | 36.48 | 36.48 | 0 | 37.47 | 37.47 | 0 | 37.87 | 37.87 | 0 | 39.84 | 39.84 | 0 | |
| 220210 | 35.95 | 35.95 | 0 | 36.81 | 36.81 | 0 | 37.47 | 37.47 | 0 | 37.87 | 37.87 | 0 | 39.84 | 39.84 | 0 | |
| 220220 | 36.41 | 36.41 | 0 | 37.8 | 37.8 | 0 | 38.46 | 38.46 | 0 | 38.75 | 38.75 | 0 | 40.09 | 40.09 | 0 | |
| 220230 | 37 | 37 | 0 | 40.89 | 40.89 | 0 | 43.27 | 43.27 | 0 | 43.88 | 43.88 | 0 | 45.27 | 45.27 | 0 | |
| 220300 | 27.69 | 27.69 | 0 | 29.73 | 29.73 | 0 | 30.35 | 30.35 | 0 | 30.61 | 30.61 | 0 | 31.72 | 31.72 | 0 | |
| 220310 | 28.11 | 28.11 | 0 | 29.75 | 29.75 | 0 | 30.36 | 30.36 | 0 | 30.62 | 30.62 | 0 | 31.72 | 31.72 | 0 | |
| 220320 | 28.35 | 28.35 | 0 | 29.93 | 29.93 | 0 | 30.55 | 30.55 | 0 | 30.81 | 30.81 | 0 | 31.9 | 31.9 | 0 | |
| 220330 | 28.41 | 28.41 | 0 | 29.93 | 29.93 | 0 | 30.55 | 30.55 | 0 | 30.81 | 30.81 | 0 | 31.9 | 31.9 | 0 | |
| 220340 | 28.52 | 28.52 | 0 | 30.15 | 30.15 | 0 | 30.77 | 30.77 | 0 | 31.04 | 31.04 | 0 | 32.14 | 32.14 | 0 | |
| 220350 | 28.6 | 28.6 | 0 | 30.29 | 30.29 | 0 | 30.91 | 30.91 | 0 | 31.19 | 31.19 | 0 | 32.31 | 32.31 | 0 | |
| 220360 | 28.11 | 28.11 | 0 | 29.75 | 29.75 | 0 | 30.35 | 30.35 | 0 | 30.61 | 30.61 | 0 | 31.72 | 31.72 | 0 | |
| 220370 | 30.13 | 30.13 | 0 | 30.45 | 30.45 | 0 | 30.57 | 30.57 | 0 | 30.62 | 30.62 | 0 | 31.72 | 31.72 | 0 | |
| 220380 | 30.13 | 30.13 | 0 | 30.45 | 30.45 | 0 | 30.59 | 30.59 | 0 | 30.64 | 30.64 | 0 | 31.72 | 31.72 | 0 | |
| 220390 | 28.66 | 28.66 | 0 | 29.92 | 29.92 | 0 | 30.48 | 30.48 | 0 | 30.69 | 30.69 | 0 | 31.78 | 31.78 | 0 | |
| 220400 | 30.54 | 30.54 | 0 | 30.88 | 30.88 | 0 | 31.05 | 31.05 | 0 | 31.14 | 31.14 | 0 | 31.78 | 31.78 | 0 | |
| 220500 | 29.26 | 29.26 | 0 | 29.94 | 29.94 | 0 | 30.58 | 30.58 | 0 | 30.85 | 30.85 | 0 | 31.96 | 31.96 | 0 | |
| 220510 | 29.66 | 29.66 | 0 | 30.57 | 30.57 | 0 | 30.95 | 30.95 | 0 | 31.12 | 31.12 | 0 | 32.03 | 32.03 | 0 | |
| 220530 | 29.79 | 29.79 | 0 | 31.3 | 31.3 | 0 | 32.02 | 32.02 | 0 | 32.46 | 32.46 | 0 | 34.33 | 34.33 | 0 | |
| 220540 | 30.01 | 30.01 | 0 | 31.75 | 31.75 | 0 | 32.74 | 32.74 | 0 | 33.16 | 33.16 | 0 | 34.5 | 34.5 | 0 | |
| 220550 | 30.03 | 30.03 | 0 | 31.76 | 31.76 | 0 | 32.76 | 32.76 | 0 | 33.18 | 33.18 | 0 | 35.41 | 35.41 | 0 | |
| 220560 | 29.97 | 29.97 | 0 | 31.77 | 31.77 | 0 | 32.72 | 32.72 | 0 | 33.13 | 33.13 | 0 | 34.48 | 34.48 | 0 | |
| 220570 | 29.94 | 29.94 | 0 | 31.98 | 31.98 | 0 | 33.18 | 33.18 | 0 | 33.72 | 33.72 | 0 | 35.73 | 35.73 | 0 | |
| 220580 | 30.04 | 30.04 | 0 | 32.17 | 32.17 | 0 | 33.54 | 33.54 | 0 | 34.12 | 34.12 | 0 | 36.25 | 36.25 | 0 | |
| 220590 | 30.04 | 30.04 | 0 | 32.37 | 32.37 | 0 | 33.58 | 33.58 | 0 | 34.12 | 34.12 | 0 | 36.25 | 36.25 | 0 | |
| 220600 | 30.04 | 30.04 | 0 | 32.85 | 32.85 | 0 | 34.53 | 34.53 | 0 | 34.94 | 34.94 | 0 | 36.29 | 36.29 | 0 | |
| 220610 | 30.04 | 30.04 | 0 | 33.72 | 33.72 | 0 | 35.01 | 35.01 | 0 | 35.32 | 35.32 | 0 | 36.38 | 36.38 | 0 | |
| 220620 | 31.55 | 31.55 | 0 | 35.95 | 35.95 | 0 | 36.43 | 36.43 | 0 | 36.56 | 36.56 | 0 | 37.07 | 37.07 | 0 | |
| 220630 | 34.65 | 34.65 | 0 | 37.23 | 37.23 | 0 | 37.65 | 37.65 | 0 | 37.76 | 37.76 | 0 | | | | |

Summary of Corrected and Revised Stages for Bridge Culvert

| Node | 2.33YR24HR | | | 25YR24HR | | | 50YR24HR | | | 100YR24HR | | | 500YR24HR | | | Notes |
|--------|--------------------------------|---------------------|-----------------|--------------------------------|---------------------|-----------------|--------------------------------|---------------------|-----------------|--------------------------------|---------------------|-----------------|--------------------------------|---------------------|-----------------|-------|
| | Corrected Effective Stage (ft) | Proposed Stage (ft) | Difference (ft) | Corrected Effective Stage (ft) | Proposed Stage (ft) | Difference (ft) | Corrected Effective Stage (ft) | Proposed Stage (ft) | Difference (ft) | Corrected Effective Stage (ft) | Proposed Stage (ft) | Difference (ft) | Corrected Effective Stage (ft) | Proposed Stage (ft) | Difference (ft) | |
| 220690 | 29.29 | 29.29 | 0 | 30.82 | 30.82 | 0 | 31.09 | 31.09 | 0 | 31.19 | 31.19 | 0 | 32 | 32 | 0 | |
| 220700 | 30.31 | 30.31 | 0 | 30.92 | 30.92 | 0 | 31.15 | 31.15 | 0 | 31.24 | 31.24 | 0 | 32 | 32 | 0 | |
| 220710 | 30.31 | 30.31 | 0 | 30.96 | 30.96 | 0 | 31.3 | 31.3 | 0 | 31.45 | 31.45 | 0 | 32.08 | 32.08 | 0 | |
| 220720 | 30.31 | 30.31 | 0 | 31.01 | 31.01 | 0 | 31.31 | 31.31 | 0 | 31.44 | 31.44 | 0 | 32 | 32 | 0 | |
| 220730 | 30.31 | 30.31 | 0 | 31.05 | 31.05 | 0 | 31.38 | 31.38 | 0 | 31.53 | 31.53 | 0 | 32.15 | 32.15 | 0 | |
| 220740 | 30.31 | 30.31 | 0 | 31.4 | 31.4 | 0 | 31.85 | 31.85 | 0 | 32.03 | 32.03 | 0 | 32.77 | 32.77 | 0 | |
| 220750 | 30.31 | 30.31 | 0 | 31.21 | 31.21 | 0 | 31.63 | 31.63 | 0 | 31.81 | 31.81 | 0 | 32.59 | 32.59 | 0 | |
| 220760 | 30.31 | 30.31 | 0 | 31.63 | 31.63 | 0 | 32.27 | 32.27 | 0 | 32.55 | 32.55 | 0 | 33.63 | 33.63 | 0 | |
| 220770 | 30.32 | 30.32 | 0 | 32.24 | 32.24 | 0 | 32.66 | 32.66 | 0 | 32.84 | 32.84 | 0 | 33.69 | 33.69 | 0 | |
| 220780 | 40.45 | 40.45 | 0 | 41.78 | 41.78 | 0 | 43.22 | 43.22 | 0 | 44.08 | 44.08 | 0 | 45.51 | 45.51 | 0 | |
| 220790 | 43.27 | 43.27 | 0 | 44.53 | 44.53 | 0 | 44.78 | 44.78 | 0 | 44.89 | 44.89 | 0 | 45.57 | 45.57 | 0 | |
| 220800 | 30.31 | 30.31 | 0 | 31.59 | 31.59 | 0 | 32.2 | 32.2 | 0 | 32.48 | 32.48 | 0 | 33.41 | 33.41 | 0 | |
| 220810 | 30.31 | 30.31 | 0 | 31.58 | 31.58 | 0 | 32.1 | 32.1 | 0 | 32.35 | 32.35 | 0 | 32.8 | 32.8 | 0 | |
| 220820 | 31.46 | 31.46 | 0 | 31.65 | 31.65 | 0 | 31.86 | 31.86 | 0 | 32.04 | 32.04 | 0 | 32.77 | 32.77 | 0 | |
| 220830 | 30.31 | 30.31 | 0 | 31.21 | 31.21 | 0 | 31.65 | 31.65 | 0 | 31.84 | 31.84 | 0 | 33.62 | 33.62 | 0 | |
| 220840 | 31.81 | 31.81 | 0 | 32.07 | 32.07 | 0 | 32.29 | 32.29 | 0 | 32.55 | 32.55 | 0 | 33.63 | 33.63 | 0 | |
| 220850 | 29.67 | 29.67 | 0 | 30.74 | 30.74 | 0 | 31.73 | 31.73 | 0 | 32.01 | 32.01 | 0 | 32.67 | 32.67 | 0 | |
| 220860 | 31.82 | 31.82 | 0 | 32.15 | 32.15 | 0 | 32.27 | 32.27 | 0 | 32.33 | 32.33 | 0 | 32.74 | 32.74 | 0 | |
| 220870 | 29.67 | 29.67 | 0 | 30.9 | 30.9 | 0 | 31.29 | 31.29 | 0 | 31.44 | 31.44 | 0 | 32.08 | 32.08 | 0 | |
| 220880 | 29.67 | 29.67 | 0 | 30.9 | 30.9 | 0 | 31.29 | 31.29 | 0 | 31.44 | 31.44 | 0 | 32.08 | 32.08 | 0 | |
| 220890 | 31.74 | 31.74 | 0 | 32.84 | 32.84 | 0 | 36.86 | 36.86 | 0 | 38.23 | 38.23 | 0 | 38.72 | 38.72 | 0 | |
| 220900 | 36.83 | 36.83 | 0 | 39.59 | 39.59 | 0 | 39.87 | 39.87 | 0 | 40 | 40 | 0 | 40.57 | 40.57 | 0 | |
| 220910 | 41.45 | 41.45 | 0 | 43.09 | 43.09 | 0 | 43.25 | 43.25 | 0 | 43.32 | 43.32 | 0 | 43.59 | 43.59 | 0 | |
| 220920 | 29.76 | 29.76 | 0 | 31.3 | 31.3 | 0 | 32.22 | 32.22 | 0 | 32.54 | 32.54 | 0 | 33.63 | 33.63 | 0 | |
| 220930 | 31.55 | 31.55 | 0 | 31.64 | 31.64 | 0 | 32.27 | 32.27 | 0 | 32.55 | 32.55 | 0 | 33.63 | 33.63 | 0 | |
| 220940 | 27.45 | 27.45 | 0 | 28.02 | 28.02 | 0 | 28.38 | 28.38 | 0 | 28.59 | 28.59 | 0 | 32.87 | 32.87 | 0 | |
| 220950 | 37.16 | 37.16 | 0 | 38.35 | 38.35 | 0 | 39.04 | 39.04 | 0 | 39.18 | 39.18 | 0 | 39.93 | 39.93 | 0 | |
| 220960 | 36.12 | 36.12 | 0 | 38.19 | 38.19 | 0 | 39.24 | 39.24 | 0 | 39.73 | 39.73 | 0 | 41.07 | 41.07 | 0 | |
| 220970 | 30.1 | 30.1 | 0 | 31.76 | 31.76 | 0 | 32.76 | 32.76 | 0 | 33.18 | 33.18 | 0 | 35.12 | 35.12 | 0 | |
| 220980 | 32.24 | 32.24 | 0 | 33.51 | 33.51 | 0 | 34.22 | 34.22 | 0 | 34.63 | 34.63 | 0 | 37.74 | 37.74 | 0 | |
| 220990 | 33.36 | 33.36 | 0 | 36.48 | 36.48 | 0 | 39.04 | 39.04 | 0 | 40.14 | 40.14 | 0 | 42.91 | 42.91 | 0 | |
| 221000 | 34.85 | 34.85 | 0 | 35.47 | 35.47 | 0 | 35.76 | 35.76 | 0 | 35.87 | 35.87 | 0 | 36.18 | 36.18 | 0 | |
| 221020 | 35.77 | 35.77 | 0 | 35.97 | 35.97 | 0 | 36.43 | 36.43 | 0 | 36.76 | 36.76 | 0 | 37.81 | 37.81 | 0 | |
| 221030 | 34.85 | 34.85 | 0 | 35.64 | 35.64 | 0 | 36.3 | 36.3 | 0 | 36.62 | 36.62 | 0 | 37.71 | 37.71 | 0 | |
| 221040 | 34.85 | 34.85 | 0 | 35.72 | 35.72 | 0 | 36.54 | 36.54 | 0 | 36.95 | 36.95 | 0 | 38.53 | 38.53 | 0 | |
| 221050 | 34.85 | 34.85 | 0 | 35.69 | 35.69 | 0 | 36.42 | 36.42 | 0 | 36.76 | 36.76 | 0 | 37.8 | 37.8 | 0 | |
| 221060 | 30.04 | 30.04 | 0 | 32.65 | 32.65 | 0 | 34.13 | 34.13 | 0 | 34.44 | 34.44 | 0 | 36.25 | 36.25 | 0 | |
| 221070 | 30.05 | 30.05 | 0 | 33.38 | 33.38 | 0 | 34.55 | 34.55 | 0 | 34.95 | 34.95 | 0 | 36.3 | 36.3 | 0 | |
| 221080 | 30.59 | 30.59 | 0 | 33.36 | 33.36 | 0 | 34.55 | 34.55 | 0 | 34.95 | 34.95 | 0 | 36.3 | 36.3 | 0 | |
| 221090 | 38.35 | 38.35 | 0 | 38.91 | 38.91 | 0 | 39.15 | 39.15 | 0 | 39.23 | 39.23 | 0 | 39.93 | 39.93 | 0 | |
| 221100 | 33.51 | 33.51 | 0 | 35.96 | 35.96 | 0 | 36.04 | 36.04 | 0 | 36.11 | 36.11 | 0 | 36.72 | 36.72 | 0 | |
| 221110 | 30.05 | 30.05 | 0 | 35.99 | 35.99 | 0 | 36.3 | 36.3 | 0 | 36.42 | 36.42 | 0 | 36.91 | 36.91 | 0 | |
| 221120 | 39.73 | 39.73 | 0 | 40.32 | 40.32 | 0 | 40.58 | 40.58 | 0 | 40.71 | 40.71 | 0 | 41.3 | 41.3 | 0 | |
| 221130 | 31.69 | 31.69 | 0 | 35.11 | 35.11 | 0 | 36.56 | 36.56 | 0 | 36.86 | 36.86 | 0 | 37.69 | 37.69 | 0 | |
| 221140 | 35.08 | 35.08 | 0 | 37.41 | 37.41 | 0 | 40.41 | 40.41 | 0 | 41.45 | 41.45 | 0 | 44.76 | 44.76 | 0 | |
| 221150 | 37.35 | 37.35 | 0 | 40.72 | 40.72 | 0 | 44.49 | 44.49 | 0 | 44.81 | 44.81 | 0 | 45.75 | 45.75 | 0 | |
| 221160 | 45.4 | 45.4 | 0 | 45.64 | 45.64 | 0 | 45.76 | 45.76 | 0 | 45.81 | 45.81 | 0 | 46.07 | 46.07 | 0 | |
| 221200 | 28.81 | 28.81 | 0 | 30.28 | 30.28 | 0 | 30.9 | 30.9 | 0 | 31.17 | 31.17 | 0 | 32.28 | 32.28 | 0 | |
| 221210 | 29.05 | 29.05 | 0 | 30.28 | 30.28 | 0 | 30.9 | 30.9 | 0 | 31.17 | 31.17 | 0 | 32.28 | 32.28 | 0 | |
| 221220 | 27.7 | 27.7 | 0 | 29.97 | 29.97 | 0 | 30.66 | 30.66 | 0 | 30.95 | 30.95 | 0 | 32.1 | 32.1 | 0 | |
| 221230 | 37.18 | 37.18 | 0 | 37.56 | 37.56 | 0 | 37.76 | 37.76 | 0 | 37.84 | 37.84 | 0 | 38.19 | 38.19 | 0 | |
| 221240 | 37.32 | 37.32 | 0 | 37.88 | 37.88 | 0 | 38.07 | 38.07 | 0 | 38.15 | 38.15 | 0 | 38.58 | 38.58 | 0 | |
| 221250 | 43.11 | 43.11 | 0 | 44.69 | 44.69 | 0 | 45.43 | 45.43 | 0 | 45.45 | 45.45 | 0 | 45.73 | 45.73 | 0 | |
| 221260 | 42.63 | 42.63 | 0 | 44.58 | 44.58 | 0 | 45.4 | 45.4 | 0 | 45.72 | 45.72 | 0 | 46.85 | 46.85 | 0 | |
| 221270 | 29.37 | 29.37 | 0 | 29.97 | 29.97 | 0 | 30.66 | 30.66 | 0 | 30.95 | 30.95 | 0 | 32.1 | 32.1 | 0 | |
| 221280 | 36.41 | 36.41 | 0 | 36.64 | 36.64 | 0 | 36.74 | 36.74 | 0 | 36.79 | 36.79 | 0 | 37.01 | 37.01 | 0 | |
| 221290 | 29.93 | 29.93 | 0 | 32.17 | 32.17 | 0 | 33.54 | 33.54 | 0 | 34.12 | 34.12 | 0 | 36.25 | 36.25 | 0 | |
| 221300 | 30.94 | 30.94 | 0 | 32.17 | 32.17 | 0 | 33.54 | 33.54 | 0 | 34.12 | 34.12 | 0 | 36.25 | 36.25 | 0 | |
| 221310 | 37.57 | 37.57 | 0 | 39.49 | 39.49 | 0 | 40.16 | 40.16 | 0 | 40.54 | 40.54 | 0 | 41.58 | 41.58 | 0 | |
| 221320 | 36 | 36 | 0 | 38.21 | 38.21 | 0 | 39.98 | 39.98 | 0 | 40.44 | 40.44 | 0 | 41.55 | 41.55 | 0 | |
| 221330 | 37.65 | 37.65 | 0 | 39.71 | 39.71 | 0 | 39.97 | 39.97 | 0 | 40.08 | 40.08 | 0 | 41.1 | 41.1 | 0 | |
| 221340 | 34.1 | 34.1 | 0 | 36.46 | 36.46 | 0 | 38.35 | 38.35 | 0 | 39.22 | 39.22 | 0 | 40.97 | 40.97 | 0 | |
| 221350 | 28.97 | 28.97 | 0 | 32.17 | 32.17 | 0 | 33.54 | 33.54 | 0 | 34.12 | 34.12 | 0 | 36.25 | 36.25 | 0 | |
| 221400 | 28.81 | 28.81 | 0 | 30.29 | 30.29 | 0 | 30.91 | 30.91 | 0 | 31.19 | 31.19 | 0 | 32.31 | 32.31 | 0 | |
| 221410 | 28.6 | 28.6 | 0 | 30.29 | 30.29 | 0 | 30.91 | 30.91 | 0 | 31.19 | 31.19 | 0 | 32.31 | 32.31 | 0 | |
| 221420 | 28.6 | 28.6 | 0 | 30.29 | 30.29 | 0 | 30.91 | 30.91 | 0 | 31.19 | 31.19 | 0 | 32.31 | 32.31 | 0 | |
| 221430 | 28.6 | 28.6 | 0 | 30.29 | 30.29 | 0 | 30.91 | 30.91 | 0 | 31.19 | 31.19 | 0 | 32.32 | 32.32 | 0 | |
| 221440 | 28.6 | 28.6 | 0 | 30.33 | 30.33 | 0 | 30.96 | 30.96 | 0 | 31.26 | 31.26 | 0 | 32.41 | 32.41 | 0 | |
| 221450 | 28.6 | 28.6 | 0 | 30.33 | 30.33 | 0 | 30.96 | 30.96 | 0 | 31.26 | 31.26 | 0 | 32.41 | 32.41 | 0 | |
| 221460 | 28.6 | 28.6 | 0 | 30.33 | 30.33 | 0 | 30.96 | 30.96 | 0 | 31.26 | 31.26 | 0 | 32.4 | 32.4 | 0 | |
| 221470 | 28.61 | 28.61 | 0 | 30.35 | 30.35 | 0 | 31.05 | 31.05 | 0 | 31.41 | 31.41 | 0 | 32.71 | 32.71 | 0 | |
| 221480 | 28.64 | 28.64 | 0 | 30.28 | 30.28 | 0 | 30.86 | 30.86 | 0 | 31.11 | 31.11 | 0 | 32.04 | 32.04 | 0 | |
| 221490 | 29.08 | 29.08 | 0 | 30.74 | 30.74 | 0 | 31.19 | 31.19 | 0 | 31.37 | 31.37 | 0 | 32.08 | 32.08 | 0 | |
| 221500 | 28.61 | 28.61 | 0 | 32.02 | 32.02 | 0 | 32.49 | 32.49 | 0 | 32.68 | 32.68 | 0 | 33.45 | 33.45 | 0 | |
| 221510 | 28.6 | 28.6 | 0 | 30.33 | 30.33 | 0 | 30.98 | 30.98 | 0 | 31.28 | 31.28 | 0 | 32.41 | 32.41 | 0 | |
| 221520 | 28.6 | 28.6 | 0 | 30.3 | 30.3 | 0 | 30.92 | 30.92 | 0 | 31.19 | 31.19 | 0 | 32.31 | 32.31 | 0 | |
| 221530 | 28.6 | 28.6 | 0 | 30.31 | 30.31 | 0 | 30.94 | 30.94 | 0 | 31.22 | 31.22 | 0 | 32.33 | 32.33 | 0 | |
| 221540 | 28.6 | 28.6 | 0 | 30.32 | 30.32 | 0 | 30.95 | 30.95 | 0 | 31.23 | 31.23 | 0 | 32.35 | 32.35 | 0 | |
| 221550 | 28.6 | 28.6 | 0 | 30.32 | 30.32 | 0 | 30.95 | 30.95 | 0 | 31.24 | 31.24 | 0 | 32.36 | 32.36 | 0 | |
| 221560 | 28.6 | 28.6 | 0 | 30.34 | 30.34 | 0 | 30.98 | 30.98 | 0 | 31.28 | 31.28 | 0 | 32.42 | 32.42 | 0 | |
| 221570 | 28.6 | 28.6 | 0 | 30.34 | 30.34 | 0 | 30.98 | 30.98 | 0 | 31.28 | 31.28 | 0 | 32.42 | 32.42 | 0 | |
| 221580 | 28.61 | 28.61 | 0 | 30.42 | 30.42 | 0 | 31.1 | 31.1 | 0 | 31.4 | 31.4 | 0 | 32.53 | 32.53 | 0 | |
| 221590 | 28.62 | 28.62 | 0 | 30.5 | 30.5 | 0 | 31.22 | 31.22 | 0 | 31.53 | 31.53 | 0 | 32.65 | 32.65 | 0 | |
| 2216 | | | | | | | | | | | | | | | | |

Summary of Corrected and Revised Stages for Bridge Culvert

| Node | 2.33YR24HR | | | 25YR24HR | | | 50YR24HR | | | 100YR24HR | | | 500YR24HR | | | Notes |
|--------|--------------------------------|---------------------|-----------------|--------------------------------|---------------------|-----------------|--------------------------------|---------------------|-----------------|--------------------------------|---------------------|-----------------|--------------------------------|---------------------|-----------------|-------|
| | Corrected Effective Stage (ft) | Proposed Stage (ft) | Difference (ft) | Corrected Effective Stage (ft) | Proposed Stage (ft) | Difference (ft) | Corrected Effective Stage (ft) | Proposed Stage (ft) | Difference (ft) | Corrected Effective Stage (ft) | Proposed Stage (ft) | Difference (ft) | Corrected Effective Stage (ft) | Proposed Stage (ft) | Difference (ft) | |
| 221680 | 28.79 | 28.79 | 0 | 30.29 | 30.29 | 0 | 30.92 | 30.92 | 0 | 31.19 | 31.19 | 0 | 32.31 | 32.31 | 0 | |
| 221690 | 28.74 | 28.74 | 0 | 30.29 | 30.29 | 0 | 30.92 | 30.92 | 0 | 31.19 | 31.19 | 0 | 32.31 | 32.31 | 0 | |
| 221700 | 28.74 | 28.74 | 0 | 30.29 | 30.29 | 0 | 30.92 | 30.92 | 0 | 31.21 | 31.21 | 0 | 32.32 | 32.32 | 0 | |
| 221710 | 28.75 | 28.75 | 0 | 30.3 | 30.3 | 0 | 30.97 | 30.97 | 0 | 31.27 | 31.27 | 0 | 33.18 | 33.18 | 0 | |
| 221720 | 30.58 | 30.58 | 0 | 32.18 | 32.18 | 0 | 32.68 | 32.68 | 0 | 32.88 | 32.88 | 0 | 33.69 | 33.69 | 0 | |
| 221730 | 30.6 | 30.6 | 0 | 32.18 | 32.18 | 0 | 32.68 | 32.68 | 0 | 32.88 | 32.88 | 0 | 33.7 | 33.7 | 0 | |
| 221740 | 30.61 | 30.61 | 0 | 32.32 | 32.32 | 0 | 32.82 | 32.82 | 0 | 33.03 | 33.03 | 0 | 33.83 | 33.83 | 0 | |
| 221750 | 30.61 | 30.61 | 0 | 32.68 | 32.68 | 0 | 33.36 | 33.36 | 0 | 33.67 | 33.67 | 0 | 35.13 | 35.13 | 0 | |
| 221760 | 30.61 | 30.61 | 0 | 32.88 | 32.88 | 0 | 33.49 | 33.49 | 0 | 33.79 | 33.79 | 0 | 35.21 | 35.21 | 0 | |
| 221770 | 32.93 | 32.93 | 0 | 33.65 | 33.65 | 0 | 34.01 | 34.01 | 0 | 34.32 | 34.32 | 0 | 35.52 | 35.52 | 0 | |
| 221780 | 30.57 | 30.57 | 0 | 32.25 | 32.25 | 0 | 33.07 | 33.07 | 0 | 33.43 | 33.43 | 0 | 35.09 | 35.09 | 0 | |
| 221790 | 31.9 | 31.9 | 0 | 32.25 | 32.25 | 0 | 33.1 | 33.1 | 0 | 33.49 | 33.49 | 0 | 35.48 | 35.48 | 0 | |
| 221800 | 33.11 | 33.11 | 0 | 33.54 | 33.54 | 0 | 33.74 | 33.74 | 0 | 33.82 | 33.82 | 0 | 34.14 | 34.14 | 0 | |
| 221810 | 33.11 | 33.11 | 0 | 33.56 | 33.56 | 0 | 33.75 | 33.75 | 0 | 33.82 | 33.82 | 0 | 34.14 | 34.14 | 0 | |
| 221820 | 42.77 | 42.77 | 0 | 45.59 | 45.59 | 0 | 46.8 | 46.8 | 0 | 47.33 | 47.33 | 0 | 49.54 | 49.54 | 0 | |
| 221830 | 33.9 | 33.9 | 0 | 34.61 | 34.61 | 0 | 34.72 | 34.72 | 0 | 34.83 | 34.83 | 0 | 35.61 | 35.61 | 0 | |
| 221840 | 34.19 | 34.19 | 0 | 36.13 | 36.13 | 0 | 36.31 | 36.31 | 0 | 36.39 | 36.39 | 0 | 36.76 | 36.76 | 0 | |
| 221900 | 30.96 | 30.96 | 0 | 31.57 | 31.57 | 0 | 31.81 | 31.81 | 0 | 31.9 | 31.9 | 0 | 32.58 | 32.58 | 0 | |
| 221910 | 31.26 | 31.26 | 0 | 32 | 32 | 0 | 32.28 | 32.28 | 0 | 32.38 | 32.38 | 0 | 32.75 | 32.75 | 0 | |
| 221920 | 28.86 | 28.86 | 0 | 30.38 | 30.38 | 0 | 31.04 | 31.04 | 0 | 31.33 | 31.33 | 0 | 32.58 | 32.58 | 0 | |
| 221930 | 30.17 | 30.17 | 0 | 30.41 | 30.41 | 0 | 31.04 | 31.04 | 0 | 31.33 | 31.33 | 0 | 32.58 | 32.58 | 0 | |
| 221940 | 30.66 | 30.66 | 0 | 30.95 | 30.95 | 0 | 31.06 | 31.06 | 0 | 31.33 | 31.33 | 0 | 32.58 | 32.58 | 0 | |
| 221950 | 28.85 | 28.85 | 0 | 30.38 | 30.38 | 0 | 31.04 | 31.04 | 0 | 31.33 | 31.33 | 0 | 32.58 | 32.58 | 0 | |
| 221960 | 29.92 | 29.92 | 0 | 31 | 31 | 0 | 31.24 | 31.24 | 0 | 31.38 | 31.38 | 0 | 32.58 | 32.58 | 0 | |
| 221970 | 30.89 | 30.89 | 0 | 31.12 | 31.12 | 0 | 31.36 | 31.36 | 0 | 31.49 | 31.49 | 0 | 32.58 | 32.58 | 0 | |
| 221980 | 30.89 | 30.89 | 0 | 31.09 | 31.09 | 0 | 31.53 | 31.53 | 0 | 31.77 | 31.77 | 0 | 32.77 | 32.77 | 0 | |
| 221990 | 30.64 | 30.64 | 0 | 31.07 | 31.07 | 0 | 31.56 | 31.56 | 0 | 31.78 | 31.78 | 0 | 32.77 | 32.77 | 0 | |
| 222000 | 32.82 | 32.82 | 0 | 32.82 | 32.82 | 0 | 32.82 | 32.82 | 0 | 32.82 | 32.82 | 0 | 33.22 | 33.22 | 0 | |
| 222010 | 33.92 | 33.92 | 0 | 34.92 | 34.92 | 0 | 35.58 | 35.58 | 0 | 35.92 | 35.92 | 0 | 36.72 | 36.72 | 0 | |
| 222020 | 33.71 | 33.71 | 0 | 34.38 | 34.38 | 0 | 34.65 | 34.65 | 0 | 34.76 | 34.76 | 0 | 35.31 | 35.31 | 0 | |
| 222030 | 31.56 | 31.56 | 0 | 33.25 | 33.25 | 0 | 33.78 | 33.78 | 0 | 34.01 | 34.01 | 0 | 35.06 | 35.06 | 0 | |
| 222040 | 31.56 | 31.56 | 0 | 33.25 | 33.25 | 0 | 33.78 | 33.78 | 0 | 34.01 | 34.01 | 0 | 35.06 | 35.06 | 0 | |
| 222050 | 34.99 | 34.99 | 0 | 35.73 | 35.73 | 0 | 36.16 | 36.16 | 0 | 36.37 | 36.37 | 0 | 37.43 | 37.43 | 0 | |
| 222060 | 32 | 32 | 0 | 33.7 | 33.7 | 0 | 34.37 | 34.37 | 0 | 34.63 | 34.63 | 0 | 35.61 | 35.61 | 0 | |
| 222070 | 32.49 | 32.49 | 0 | 35.2 | 35.2 | 0 | 36.17 | 36.17 | 0 | 36.51 | 36.51 | 0 | 37.46 | 37.46 | 0 | |
| 222080 | 34.09 | 34.09 | 0 | 35.4 | 35.4 | 0 | 36.84 | 36.84 | 0 | 37.54 | 37.54 | 0 | 39.09 | 39.09 | 0 | |
| 222090 | 39.2 | 39.2 | 0 | 39.5 | 39.5 | 0 | 39.64 | 39.64 | 0 | 39.71 | 39.71 | 0 | 40.07 | 40.07 | 0 | |
| 222100 | 35.31 | 35.31 | 0 | 36.09 | 36.09 | 0 | 37.81 | 37.81 | 0 | 38.38 | 38.38 | 0 | 39.88 | 39.88 | 0 | |
| 222110 | 37.2 | 37.2 | 0 | 37.89 | 37.89 | 0 | 38.19 | 38.19 | 0 | 38.42 | 38.42 | 0 | 39.89 | 39.89 | 0 | |
| 222130 | 34.91 | 34.91 | 0 | 35.69 | 35.69 | 0 | 36.99 | 36.99 | 0 | 38.13 | 38.13 | 0 | 39.33 | 39.33 | 0 | |
| 222140 | 36.6 | 36.6 | 0 | 38.38 | 38.38 | 0 | 38.45 | 38.45 | 0 | 38.53 | 38.53 | 0 | 39.33 | 39.33 | 0 | |
| 222150 | 33.34 | 33.34 | 0 | 35.51 | 35.51 | 0 | 36.36 | 36.36 | 0 | 36.59 | 36.59 | 0 | 37.59 | 37.59 | 0 | |
| 222160 | 33.99 | 33.99 | 0 | 35.59 | 35.59 | 0 | 36.4 | 36.4 | 0 | 36.63 | 36.63 | 0 | 37.6 | 37.6 | 0 | |
| 222170 | 32.68 | 32.68 | 0 | 34.09 | 34.09 | 0 | 35.02 | 35.02 | 0 | 36.05 | 36.05 | 0 | 37.59 | 37.59 | 0 | |
| 222180 | 32.7 | 32.7 | 0 | 34.52 | 34.52 | 0 | 35.91 | 35.91 | 0 | 36.17 | 36.17 | 0 | 36.75 | 36.75 | 0 | |
| 222190 | 37.07 | 37.07 | 0 | 37.61 | 37.61 | 0 | 37.71 | 37.71 | 0 | 37.77 | 37.77 | 0 | 37.94 | 37.94 | 0 | |
| 222200 | 33.26 | 33.26 | 0 | 35.19 | 35.19 | 0 | 36.02 | 36.02 | 0 | 36.24 | 36.24 | 0 | 36.77 | 36.77 | 0 | |
| 222300 | 39.02 | 39.02 | 0 | 39.36 | 39.36 | 0 | 40.03 | 40.03 | 0 | 40.45 | 40.45 | 0 | 42.08 | 42.08 | 0 | |
| 222310 | 39.97 | 39.97 | 0 | 41.35 | 41.35 | 0 | 41.69 | 41.69 | 0 | 41.78 | 41.78 | 0 | 42.19 | 42.19 | 0 | |
| 222320 | 36.25 | 36.25 | 0 | 38.89 | 38.89 | 0 | 39.55 | 39.55 | 0 | 39.88 | 39.88 | 0 | 41.41 | 41.41 | 0 | |
| 222330 | 38 | 38 | 0 | 38.91 | 38.91 | 0 | 39.55 | 39.55 | 0 | 39.88 | 39.88 | 0 | 41.41 | 41.41 | 0 | |
| 222340 | 35.39 | 35.39 | 0 | 37.75 | 37.75 | 0 | 39.12 | 39.12 | 0 | 39.62 | 39.62 | 0 | 41.17 | 41.17 | 0 | |
| 222350 | 37.46 | 37.46 | 0 | 38.07 | 38.07 | 0 | 39.12 | 39.12 | 0 | 39.62 | 39.62 | 0 | 41.17 | 41.17 | 0 | |
| 222360 | 35.55 | 35.55 | 0 | 36.02 | 36.02 | 0 | 36.29 | 36.29 | 0 | 36.51 | 36.51 | 0 | 37.86 | 37.86 | 0 | |
| 222370 | 37.79 | 37.79 | 0 | 40.57 | 40.57 | 0 | 41.13 | 41.13 | 0 | 41.36 | 41.36 | 0 | 43.16 | 43.16 | 0 | |
| 222380 | 40.84 | 40.84 | 0 | 41.92 | 41.92 | 0 | 42.25 | 42.25 | 0 | 42.38 | 42.38 | 0 | 43.2 | 43.2 | 0 | |
| 222390 | 40.5 | 40.5 | 0 | 43.17 | 43.17 | 0 | 43.26 | 43.26 | 0 | 43.35 | 43.35 | 0 | 43.84 | 43.84 | 0 | |
| 222400 | 41.4 | 41.4 | 0 | 43.56 | 43.56 | 0 | 44.26 | 44.26 | 0 | 44.36 | 44.36 | 0 | 44.63 | 44.63 | 0 | |
| 222410 | 41.75 | 41.75 | 0 | 43.64 | 43.64 | 0 | 44.38 | 44.38 | 0 | 44.53 | 44.53 | 0 | 45.09 | 45.09 | 0 | |
| 222420 | 44.13 | 44.13 | 0 | 44.62 | 44.62 | 0 | 44.91 | 44.91 | 0 | 45.08 | 45.08 | 0 | 45.83 | 45.83 | 0 | |
| 222430 | 34.78 | 34.78 | 0 | 37.76 | 37.76 | 0 | 39.13 | 39.13 | 0 | 39.63 | 39.63 | 0 | 41.29 | 41.29 | 0 | |
| 222440 | 36 | 36 | 0 | 38.18 | 38.18 | 0 | 40.64 | 40.64 | 0 | 41.71 | 41.71 | 0 | 44.12 | 44.12 | 0 | |
| 222450 | 35.63 | 35.63 | 0 | 37.76 | 37.76 | 0 | 39.65 | 39.65 | 0 | 40.66 | 40.66 | 0 | 43.06 | 43.06 | 0 | |
| 222460 | 35.27 | 35.27 | 0 | 38.84 | 38.84 | 0 | 41.68 | 41.68 | 0 | 42.39 | 42.39 | 0 | 43.52 | 43.52 | 0 | |
| 222470 | 35.34 | 35.34 | 0 | 38.88 | 38.88 | 0 | 41.71 | 41.71 | 0 | 42.4 | 42.4 | 0 | 43.16 | 43.16 | 0 | |
| 222480 | 35.53 | 35.53 | 0 | 37.28 | 37.28 | 0 | 39.09 | 39.09 | 0 | 39.78 | 39.78 | 0 | 41.6 | 41.6 | 0 | |
| 222485 | 36.61 | 36.61 | 0 | 37.02 | 37.02 | 0 | 37.22 | 37.22 | 0 | 37.31 | 37.31 | 0 | 37.76 | 37.76 | 0 | |
| 222490 | 34.12 | 34.12 | 0 | 36.61 | 36.61 | 0 | 37.7 | 37.7 | 0 | 37.97 | 37.97 | 0 | 39.84 | 39.84 | 0 | |
| 222495 | 38.45 | 38.45 | 0 | 38.74 | 38.74 | 0 | 38.88 | 38.88 | 0 | 38.94 | 38.94 | 0 | 39.26 | 39.26 | 0 | |
| 222500 | 37.61 | 37.61 | 0 | 37.84 | 37.84 | 0 | 38 | 38 | 0 | 38.07 | 38.07 | 0 | 39.84 | 39.84 | 0 | |
| 222505 | 42.83 | 42.83 | 0 | 44.04 | 44.04 | 0 | 44.46 | 44.46 | 0 | 44.65 | 44.65 | 0 | 45.5 | 45.5 | 0 | |
| 222510 | 38.03 | 38.03 | 0 | 39.06 | 39.06 | 0 | 39.71 | 39.71 | 0 | 40.06 | 40.06 | 0 | 41.28 | 41.28 | 0 | |
| 222520 | 40.71 | 40.71 | 0 | 40.89 | 40.89 | 0 | 40.96 | 40.96 | 0 | 40.99 | 40.99 | 0 | 41.31 | 41.31 | 0 | |
| 222530 | 34.09 | 34.09 | 0 | 36.47 | 36.47 | 0 | 37.46 | 37.46 | 0 | 37.87 | 37.87 | 0 | 39.84 | 39.84 | 0 | |
| 222540 | 34.09 | 34.09 | 0 | 36.47 | 36.47 | 0 | 37.46 | 37.46 | 0 | 37.87 | 37.87 | 0 | 39.84 | 39.84 | 0 | |
| 222550 | 34.09 | 34.09 | 0 | 36.47 | 36.47 | 0 | 37.46 | 37.46 | 0 | 37.87 | 37.87 | 0 | 39.84 | 39.84 | 0 | |
| 222560 | 34.15 | 34.15 | 0 | 36.47 | 36.47 | 0 | 37.46 | 37.46 | 0 | 37.87 | 37.87 | 0 | 39.84 | 39.84 | 0 | |
| 222570 | 34.09 | 34.09 | 0 | 36.48 | 36.48 | 0 | 37.47 | 37.47 | 0 | 37.87 | 37.87 | 0 | 39.84 | 39.84 | 0 | |
| 222580 | 34.09 | 34.09 | 0 | 36.48 | 36.48 | 0 | 37.47 | 37.47 | 0 | 37.87 | 37.87 | 0 | 39.84 | 39.84 | 0 | |
| 222590 | 35.95 | 35.95 | 0 | 36.81 | 36.81 | 0 | 37.46 | 37.46 | 0 | 37.86 | 37.86 | 0 | 39.84 | 39.84 | 0 | |
| 222600 | 35.93 | 35.93 | 0 | 36.78 | 36.78 | 0 | 37.44 | 37.44 | 0 | 37.86 | 37.86 | 0 | 39.84 | 39.84 | 0 | |
| 222610 | 35.38 | 35.38 | 0 | 36.56 | 36.56 | 0 | 37.47 | 37.47 | 0 | 37.87 | 37.87 | 0 | 39.84 | 39.84 | 0 | |
| 222620 | 37.25 | 37.25 | 0 | 38.84 | 38.84 | 0 | 38.9 | 38.9 | 0 | 38.98 | 38.98 | 0 | 39.84 | | | |

Summary of Corrected and Revised Stages for Bridge Culvert

| Node | 2.33YR24HR | | | 25YR24HR | | | 50YR24HR | | | 100YR24HR | | | 500YR24HR | | | Notes |
|--------|--------------------------------|---------------------|-----------------|--------------------------------|---------------------|-----------------|--------------------------------|---------------------|-----------------|--------------------------------|---------------------|-----------------|--------------------------------|---------------------|-----------------|-------|
| | Corrected Effective Stage (ft) | Proposed Stage (ft) | Difference (ft) | Corrected Effective Stage (ft) | Proposed Stage (ft) | Difference (ft) | Corrected Effective Stage (ft) | Proposed Stage (ft) | Difference (ft) | Corrected Effective Stage (ft) | Proposed Stage (ft) | Difference (ft) | Corrected Effective Stage (ft) | Proposed Stage (ft) | Difference (ft) | |
| 222710 | 35.86 | 35.86 | 0 | 37.67 | 37.67 | 0 | 39.26 | 39.26 | 0 | 39.89 | 39.89 | 0 | 41.45 | 41.45 | 0 | |
| 222720 | 43.38 | 43.38 | 0 | 47.19 | 47.19 | 0 | 48.31 | 48.31 | 0 | 48.8 | 48.8 | 0 | 50.82 | 50.82 | 0 | |
| 222730 | 43.42 | 43.42 | 0 | 47.19 | 47.19 | 0 | 48.31 | 48.31 | 0 | 48.8 | 48.8 | 0 | 50.82 | 50.82 | 0 | |
| 222740 | 33.98 | 33.98 | 0 | 37.67 | 37.67 | 0 | 39.26 | 39.26 | 0 | 39.89 | 39.89 | 0 | 41.45 | 41.45 | 0 | |
| 222750 | 31.7 | 31.7 | 0 | 37.67 | 37.67 | 0 | 39.26 | 39.26 | 0 | 39.89 | 39.89 | 0 | 41.45 | 41.45 | 0 | |
| 222760 | 31.7 | 31.7 | 0 | 37.67 | 37.67 | 0 | 39.26 | 39.26 | 0 | 39.89 | 39.89 | 0 | 41.45 | 41.45 | 0 | |
| 222770 | 36.25 | 36.25 | 0 | 38.07 | 38.07 | 0 | 39.46 | 39.46 | 0 | 40.08 | 40.08 | 0 | 41.72 | 41.72 | 0 | |
| 222780 | 36.28 | 36.28 | 0 | 37.67 | 37.67 | 0 | 39.26 | 39.26 | 0 | 39.89 | 39.89 | 0 | 41.45 | 41.45 | 0 | |
| 222800 | 25.85 | 25.85 | 0 | 35.72 | 35.72 | 0 | 39.83 | 39.83 | 0 | 41.37 | 41.37 | 0 | 44.6 | 44.6 | 0 | |
| 222810 | 40.2 | 40.2 | 0 | 46.11 | 46.11 | 0 | 46.61 | 46.61 | 0 | 46.73 | 46.73 | 0 | 47.05 | 47.05 | 0 | |
| 222820 | 43.02 | 43.02 | 0 | 46.77 | 46.77 | 0 | 48.18 | 48.18 | 0 | 48.5 | 48.5 | 0 | 49.4 | 49.4 | 0 | |
| 222830 | 48.07 | 48.07 | 0 | 49.11 | 49.11 | 0 | 50.54 | 50.54 | 0 | 51.49 | 51.49 | 0 | 53.36 | 53.36 | 0 | |
| 222840 | 49.16 | 49.16 | 0 | 49.96 | 49.96 | 0 | 53.09 | 53.09 | 0 | 53.85 | 53.85 | 0 | 56.55 | 56.55 | 0 | |
| 222850 | 51.36 | 51.36 | 0 | 52.06 | 52.06 | 0 | 53.66 | 53.66 | 0 | 54.48 | 54.48 | 0 | 57.01 | 57.01 | 0 | |
| 222860 | 51.75 | 51.75 | 0 | 52.49 | 52.49 | 0 | 53.81 | 53.81 | 0 | 54.59 | 54.59 | 0 | 56.68 | 56.68 | 0 | |
| 222870 | 76.29 | 76.29 | 0 | 80.53 | 80.53 | 0 | 81.68 | 81.68 | 0 | 82.03 | 82.03 | 0 | 83 | 83 | 0 | |
| 222880 | 76.3 | 76.3 | 0 | 78.71 | 78.71 | 0 | 79.88 | 79.88 | 0 | 80.37 | 80.37 | 0 | 81.63 | 81.63 | 0 | |
| 222890 | 73.94 | 73.94 | 0 | 78.21 | 78.21 | 0 | 79.88 | 79.88 | 0 | 80.37 | 80.37 | 0 | 81.63 | 81.63 | 0 | |
| 222900 | 78.54 | 78.54 | 0 | 80.2 | 80.2 | 0 | 81.42 | 81.42 | 0 | 81.69 | 81.69 | 0 | 82.49 | 82.49 | 0 | |
| 222910 | 67.42 | 67.42 | 0 | 69.02 | 69.02 | 0 | 69.71 | 69.71 | 0 | 70.02 | 70.02 | 0 | 71.44 | 71.44 | 0 | |
| 222920 | 68.49 | 68.49 | 0 | 71.69 | 71.69 | 0 | 72.1 | 72.1 | 0 | 72.2 | 72.2 | 0 | 72.67 | 72.67 | 0 | |
| 222930 | 71.97 | 71.97 | 0 | 72.36 | 72.36 | 0 | 72.64 | 72.64 | 0 | 72.83 | 72.83 | 0 | 73.79 | 73.79 | 0 | |
| 222940 | 73.81 | 73.81 | 0 | 76.43 | 76.43 | 0 | 77.99 | 77.99 | 0 | 78.6 | 78.6 | 0 | 79.36 | 79.36 | 0 | |
| 222950 | 81.64 | 81.64 | 0 | 83.55 | 83.55 | 0 | 84.67 | 84.67 | 0 | 84.79 | 84.79 | 0 | 85.17 | 85.17 | 0 | |
| 222960 | 105.22 | 105.22 | 0 | 106.1 | 106.1 | 0 | 106.68 | 106.68 | 0 | 106.99 | 106.99 | 0 | 108.67 | 108.67 | 0 | |
| 222970 | 78.19 | 78.19 | 0 | 79.68 | 79.68 | 0 | 80.39 | 80.39 | 0 | 80.71 | 80.71 | 0 | 82.11 | 82.11 | 0 | |
| 222980 | 87.95 | 87.95 | 0 | 88.42 | 88.42 | 0 | 88.69 | 88.69 | 0 | 88.82 | 88.82 | 0 | 89.45 | 89.45 | 0 | |
| 222990 | 88.3 | 88.3 | 0 | 90.79 | 90.79 | 0 | 91.25 | 91.25 | 0 | 91.45 | 91.45 | 0 | 92.42 | 92.42 | 0 | |
| 223000 | 69.72 | 69.72 | 0 | 71.36 | 71.36 | 0 | 72.2 | 72.2 | 0 | 72.58 | 72.58 | 0 | 73.93 | 73.93 | 0 | |
| 223010 | 43.03 | 43.03 | 0 | 46.86 | 46.86 | 0 | 47.46 | 47.46 | 0 | 47.7 | 47.7 | 0 | 48.71 | 48.71 | 0 | |
| 223020 | 72.05 | 72.05 | 0 | 72.76 | 72.76 | 0 | 73.05 | 73.05 | 0 | 73.18 | 73.18 | 0 | 73.76 | 73.76 | 0 | |
| 223030 | 47.09 | 47.09 | 0 | 50.63 | 50.63 | 0 | 50.93 | 50.93 | 0 | 51.05 | 51.05 | 0 | 51.5 | 51.5 | 0 | |
| 223040 | 45.09 | 45.09 | 0 | 45.09 | 45.09 | 0 | 45.44 | 45.44 | 0 | 45.84 | 45.84 | 0 | 47.47 | 47.47 | 0 | |
| 223100 | 50.87 | 50.87 | 0 | 54.93 | 54.93 | 0 | 55.16 | 55.16 | 0 | 55.27 | 55.27 | 0 | 55.71 | 55.71 | 0 | |
| 223110 | 54.22 | 54.22 | 0 | 54.92 | 54.92 | 0 | 55.19 | 55.19 | 0 | 55.53 | 55.53 | 0 | 57.85 | 57.85 | 0 | |
| 223120 | 55.56 | 55.56 | 0 | 57.27 | 57.27 | 0 | 57.65 | 57.65 | 0 | 57.8 | 57.8 | 0 | 58.51 | 58.51 | 0 | |
| 223130 | 54.83 | 54.83 | 0 | 54.88 | 54.88 | 0 | 55.08 | 55.08 | 0 | 55.17 | 55.17 | 0 | 55.67 | 55.67 | 0 | |
| 223140 | 54.17 | 54.17 | 0 | 55.75 | 55.75 | 0 | 56.5 | 56.5 | 0 | 56.85 | 56.85 | 0 | 57.93 | 57.93 | 0 | |
| 223150 | 55.07 | 55.07 | 0 | 55.75 | 55.75 | 0 | 56.5 | 56.5 | 0 | 56.85 | 56.85 | 0 | 57.82 | 57.82 | 0 | |
| 223160 | 55.95 | 55.95 | 0 | 56.45 | 56.45 | 0 | 56.65 | 56.65 | 0 | 56.75 | 56.75 | 0 | 57.23 | 57.23 | 0 | |
| 223170 | 47.94 | 47.94 | 0 | 49.12 | 49.12 | 0 | 50.55 | 50.55 | 0 | 51.5 | 51.5 | 0 | 53.36 | 53.36 | 0 | |
| 223180 | 48.32 | 48.32 | 0 | 50 | 50 | 0 | 50.89 | 50.89 | 0 | 51.32 | 51.32 | 0 | 53.38 | 53.38 | 0 | |
| 223200 | 48.59 | 48.59 | 0 | 50.77 | 50.77 | 0 | 51.72 | 51.72 | 0 | 52.46 | 52.46 | 0 | 54.51 | 54.51 | 0 | |
| 223210 | 50.56 | 50.56 | 0 | 52.42 | 52.42 | 0 | 53.7 | 53.7 | 0 | 54.41 | 54.41 | 0 | 56.57 | 56.57 | 0 | |
| 223220 | 54.83 | 54.83 | 0 | 55.38 | 55.38 | 0 | 56.92 | 56.92 | 0 | 57.53 | 57.53 | 0 | 58.72 | 58.72 | 0 | |
| 223230 | 55.65 | 55.65 | 0 | 57.32 | 57.32 | 0 | 57.62 | 57.62 | 0 | 57.74 | 57.74 | 0 | 58.73 | 58.73 | 0 | |
| 223240 | 51.15 | 51.15 | 0 | 54.35 | 54.35 | 0 | 55.57 | 55.57 | 0 | 55.97 | 55.97 | 0 | 57.17 | 57.17 | 0 | |
| 223250 | 51.27 | 51.27 | 0 | 55.08 | 55.08 | 0 | 56.33 | 56.33 | 0 | 56.65 | 56.65 | 0 | 58.1 | 58.1 | 0 | |
| 223260 | 53.8 | 53.8 | 0 | 56 | 56 | 0 | 56.41 | 56.41 | 0 | 56.59 | 56.59 | 0 | 57.53 | 57.53 | 0 | |
| 223270 | 81.49 | 81.49 | 0 | 82.45 | 82.45 | 0 | 82.62 | 82.62 | 0 | 82.7 | 82.7 | 0 | 83.25 | 83.25 | 0 | |
| 223280 | 82.9 | 82.9 | 0 | 84.26 | 84.26 | 0 | 85.05 | 85.05 | 0 | 85.46 | 85.46 | 0 | 87.01 | 87.01 | 0 | |
| 223290 | 77.82 | 77.82 | 0 | 81.02 | 81.02 | 0 | 82.56 | 82.56 | 0 | 83.22 | 83.22 | 0 | 84.63 | 84.63 | 0 | |
| 223300 | 67.9 | 67.9 | 0 | 73.99 | 73.99 | 0 | 74.63 | 74.63 | 0 | 74.75 | 74.75 | 0 | 75.21 | 75.21 | 0 | |
| 223310 | 69.26 | 69.26 | 0 | 69.84 | 69.84 | 0 | 70.11 | 70.11 | 0 | 70.24 | 70.24 | 0 | 70.86 | 70.86 | 0 | |
| 223320 | 51.95 | 51.95 | 0 | 53.81 | 53.81 | 0 | 54.63 | 54.63 | 0 | 55.02 | 55.02 | 0 | 57.17 | 57.17 | 0 | |
| 223330 | 72.24 | 72.24 | 0 | 74.99 | 74.99 | 0 | 75.98 | 75.98 | 0 | 76.17 | 76.17 | 0 | 76.81 | 76.81 | 0 | |
| 223340 | 73.11 | 73.11 | 0 | 78.82 | 78.82 | 0 | 80.89 | 80.89 | 0 | 81.2 | 81.2 | 0 | 82.14 | 82.14 | 0 | |
| 223350 | 77.24 | 77.24 | 0 | 77.99 | 77.99 | 0 | 78.42 | 78.42 | 0 | 78.62 | 78.62 | 0 | 79.5 | 79.5 | 0 | |
| 223358 | 85.37 | 85.37 | 0 | 86.3 | 86.3 | 0 | 87.04 | 87.04 | 0 | 87.38 | 87.38 | 0 | 88.86 | 88.86 | 0 | |
| 223360 | 84.9 | 84.9 | 0 | 86.31 | 86.31 | 0 | 87.06 | 87.06 | 0 | 87.4 | 87.4 | 0 | 88.87 | 88.87 | 0 | |
| 223400 | 44.03 | 44.03 | 0 | 46.27 | 46.27 | 0 | 47.34 | 47.34 | 0 | 47.83 | 47.83 | 0 | 50.12 | 50.12 | 0 | |
| 223410 | 44.02 | 44.02 | 0 | 44.78 | 44.78 | 0 | 45.1 | 45.1 | 0 | 45.24 | 45.24 | 0 | 45.94 | 45.94 | 0 | |
| 223420 | 41.62 | 41.62 | 0 | 44.05 | 44.05 | 0 | 44.31 | 44.31 | 0 | 44.41 | 44.41 | 0 | 45.09 | 45.09 | 0 | |
| 223430 | 46.93 | 46.93 | 0 | 49.93 | 49.93 | 0 | 50.39 | 50.39 | 0 | 50.54 | 50.54 | 0 | 51.05 | 51.05 | 0 | |
| 223440 | 46.94 | 46.94 | 0 | 47.94 | 47.94 | 0 | 48.53 | 48.53 | 0 | 48.83 | 48.83 | 0 | 50.42 | 50.42 | 0 | |
| 223450 | 46.94 | 46.94 | 0 | 47.94 | 47.94 | 0 | 48.53 | 48.53 | 0 | 48.83 | 48.83 | 0 | 50.42 | 50.42 | 0 | |
| 223460 | 42.59 | 42.59 | 0 | 47.27 | 47.27 | 0 | 48.34 | 48.34 | 0 | 48.76 | 48.76 | 0 | 50.35 | 50.35 | 0 | |
| 223470 | 56.91 | 56.91 | 0 | 57.71 | 57.71 | 0 | 58.12 | 58.12 | 0 | 58.32 | 58.32 | 0 | 59.62 | 59.62 | 0 | |
| 223480 | 59.36 | 59.36 | 0 | 59.92 | 59.92 | 0 | 60.19 | 60.19 | 0 | 60.31 | 60.31 | 0 | 60.99 | 60.99 | 0 | |
| 223490 | 61.52 | 61.52 | 0 | 65.11 | 65.11 | 0 | 66.85 | 66.85 | 0 | 67.64 | 67.64 | 0 | 71.12 | 71.12 | 0 | |
| 223500 | 67.37 | 67.37 | 0 | 67.37 | 67.37 | 0 | 67.37 | 67.37 | 0 | 67.37 | 67.37 | 0 | 67.37 | 67.37 | 0 | |
| 223510 | 71.05 | 71.05 | 0 | 71.46 | 71.46 | 0 | 71.68 | 71.68 | 0 | 71.76 | 71.76 | 0 | 72.05 | 72.05 | 0 | |
| 223520 | 50.17 | 50.17 | 0 | 51.72 | 51.72 | 0 | 51.89 | 51.89 | 0 | 51.92 | 51.92 | 0 | 52.26 | 52.26 | 0 | |
| 223530 | 42.43 | 42.43 | 0 | 47.79 | 47.79 | 0 | 50.14 | 50.14 | 0 | 50.5 | 50.5 | 0 | 51.38 | 51.38 | 0 | |
| 223540 | 70.43 | 70.43 | 0 | 71.35 | 71.35 | 0 | 71.56 | 71.56 | 0 | 71.66 | 71.66 | 0 | 72.1 | 72.1 | 0 | |
| 223550 | 75.88 | 75.88 | 0 | 77.11 | 77.11 | 0 | 77.81 | 77.81 | 0 | 78 | 78 | 0 | 78.6 | 78.6 | 0 | |
| 223560 | 74.2 | 74.2 | 0 | 75.1 | 75.1 | 0 | 75.79 | 75.79 | 0 | 76.15 | 76.15 | 0 | 77.73 | 77.73 | 0 | |
| 230005 | 1.7 | 1.69 | -0.01 | 2.26 | 2.22 | -0.04 | 2.6 | 2.58 | -0.02 | 2.76 | 2.74 | -0.02 | 3.49 | 3.44 | -0.05 | |
| 230010 | 2.5 | 2.48 | -0.02 | 3.11 | 3.09 | -0.02 | 3.33 | 3.32 | -0.01 | 3.44 | 3.42 | -0.02 | 3.98 | 3.94 | -0.04 | |
| 230020 | 2.51 | 2.49 | -0.02 | 3.16 | 3.14 | -0.02 | 3.4 | 3.38 | -0.02 | 3.51 | 3.5 | -0.01 | 4.07 | 4.03 | -0.04 | |
| 230030 | 3.05 | 3.04 | -0.01 | 3.89 | 3.87 | -0.02 | 4.17 | 4.18 | 0.01 | 4.29 | 4.31 | 0.02 | 4.85 | 4.87 | 0.02 | |
| 230040 | 3.39 | 3.23 | -0.16 | 5.21 | 4.78 | -0.43 | 5.85 | 5.43 | -0.42 | 6.11 | 5.7 | -0.41 | 7.15 | 6.77 | -0.38 | |
| 230050 | 7.3 | 7.3 | 0 | 8.24 | 8.24 | 0 | 8.86 | 8.86 | 0 | 9.2 | 9.2 | 0 | 10.7 | | | |

Summary of Corrected and Revised Stages for Bridge Culvert

| Node | 2.33YR24HR | | | 25YR24HR | | | 50YR24HR | | | 100YR24HR | | | 500YR24HR | | | Notes |
|--------|--------------------------------|---------------------|-----------------|--------------------------------|---------------------|-----------------|--------------------------------|---------------------|-----------------|--------------------------------|---------------------|-----------------|--------------------------------|---------------------|-----------------|-------|
| | Corrected Effective Stage (ft) | Proposed Stage (ft) | Difference (ft) | Corrected Effective Stage (ft) | Proposed Stage (ft) | Difference (ft) | Corrected Effective Stage (ft) | Proposed Stage (ft) | Difference (ft) | Corrected Effective Stage (ft) | Proposed Stage (ft) | Difference (ft) | Corrected Effective Stage (ft) | Proposed Stage (ft) | Difference (ft) | |
| 230180 | 3.05 | 3.04 | -0.01 | 3.89 | 3.87 | -0.02 | 4.17 | 4.18 | 0.01 | 4.3 | 4.31 | 0.01 | 4.87 | 4.88 | 0.01 | |
| 230190 | 6.15 | 6.15 | 0 | 7.48 | 7.48 | 0 | 7.84 | 7.83 | -0.01 | 8 | 7.98 | -0.02 | 8.67 | 8.66 | -0.01 | |
| 230200 | 5.33 | 5.3 | -0.03 | 6.15 | 6.1 | -0.05 | 6.59 | 6.62 | 0.03 | 6.78 | 6.81 | 0.03 | 7.34 | 7.42 | 0.08 | |
| 230210 | 7.82 | 7.82 | 0 | 8.14 | 8.14 | 0 | 8.28 | 8.28 | 0 | 8.34 | 8.34 | 0 | 8.6 | 8.6 | 0 | |
| 230220 | 7.87 | 7.87 | 0 | 8.18 | 8.18 | 0 | 8.31 | 8.31 | 0 | 8.37 | 8.37 | 0 | 8.64 | 8.64 | 0 | |
| 230400 | 10.29 | 10.29 | 0 | 11.18 | 11.18 | 0 | 11.53 | 11.53 | 0 | 11.67 | 11.67 | 0 | 12.33 | 12.33 | 0 | |
| 230410 | 9.51 | 9.51 | 0 | 10.72 | 10.72 | 0 | 11.16 | 11.16 | 0 | 11.36 | 11.36 | 0 | 12.29 | 12.29 | 0 | |
| 230420 | 9.51 | 9.51 | 0 | 10.72 | 10.72 | 0 | 11.16 | 11.16 | 0 | 11.36 | 11.36 | 0 | 12.29 | 12.29 | 0 | |
| 230430 | 9.5 | 9.5 | 0 | 10.73 | 10.73 | 0 | 11.16 | 11.16 | 0 | 11.37 | 11.37 | 0 | 12.34 | 12.34 | 0 | |
| 230440 | 9.5 | 9.5 | 0 | 10.73 | 10.73 | 0 | 11.16 | 11.16 | 0 | 11.37 | 11.37 | 0 | 12.34 | 12.34 | 0 | |
| 230450 | 11.02 | 11.02 | 0 | 12.16 | 12.16 | 0 | 12.95 | 12.95 | 0 | 13.08 | 13.08 | 0 | 13.72 | 13.72 | 0 | |
| 230460 | 10.9 | 10.9 | 0 | 12.14 | 12.14 | 0 | 12.55 | 12.55 | 0 | 12.69 | 12.69 | 0 | 13.35 | 13.35 | 0 | |
| 230470 | 13.63 | 13.63 | 0 | 13.84 | 13.84 | 0 | 13.92 | 13.92 | 0 | 13.95 | 13.95 | 0 | 14.06 | 14.06 | 0 | |
| 230480 | 14.1 | 14.1 | 0 | 14.5 | 14.5 | 0 | 14.67 | 14.67 | 0 | 14.74 | 14.74 | 0 | 15.03 | 15.03 | 0 | |
| 230490 | 14.65 | 14.65 | 0 | 15.02 | 15.02 | 0 | 15.15 | 15.15 | 0 | 15.21 | 15.21 | 0 | 15.53 | 15.53 | 0 | |
| 240010 | 1.71 | 1.71 | 0 | 1.92 | 1.92 | 0 | 2.08 | 2.08 | 0 | 2.14 | 2.14 | 0 | 2.49 | 2.49 | 0 | |
| 240020 | 1.77 | 1.77 | 0 | 2.27 | 2.27 | 0 | 2.56 | 2.56 | 0 | 2.66 | 2.66 | 0 | 3.03 | 3.03 | 0 | |
| 240030 | 1.88 | 1.88 | 0 | 2.67 | 2.67 | 0 | 3.08 | 3.08 | 0 | 3.21 | 3.21 | 0 | 3.69 | 3.69 | 0 | |
| 240040 | 1.98 | 1.98 | 0 | 3.11 | 3.11 | 0 | 3.72 | 3.72 | 0 | 3.92 | 3.92 | 0 | 4.77 | 4.77 | 0 | |
| 240050 | 2.61 | 2.61 | 0 | 3.97 | 3.97 | 0 | 4.53 | 4.53 | 0 | 4.71 | 4.71 | 0 | 5.4 | 5.4 | 0 | |
| 240060 | 2.82 | 2.82 | 0 | 4.67 | 4.67 | 0 | 5.64 | 5.64 | 0 | 5.94 | 5.94 | 0 | 7.14 | 7.14 | 0 | |
| 240070 | 2.91 | 2.91 | 0 | 4.87 | 4.87 | 0 | 5.97 | 5.97 | 0 | 6.32 | 6.32 | 0 | 7.69 | 7.69 | 0 | |
| 240080 | 3.12 | 3.12 | 0 | 5.12 | 5.12 | 0 | 6.18 | 6.18 | 0 | 6.52 | 6.52 | 0 | 7.84 | 7.84 | 0 | |
| 240090 | 3.31 | 3.31 | 0 | 5.37 | 5.37 | 0 | 6.39 | 6.39 | 0 | 6.72 | 6.72 | 0 | 7.99 | 7.99 | 0 | |
| 240100 | 4.37 | 4.37 | 0 | 6.24 | 6.24 | 0 | 7.08 | 7.08 | 0 | 7.45 | 7.45 | 0 | 8.63 | 8.63 | 0 | |
| 240110 | 4.5 | 4.5 | 0 | 6.36 | 6.36 | 0 | 7.17 | 7.17 | 0 | 7.52 | 7.52 | 0 | 8.71 | 8.71 | 0 | |
| 240120 | 4.57 | 4.57 | 0 | 6.55 | 6.55 | 0 | 7.4 | 7.4 | 0 | 7.72 | 7.72 | 0 | 8.98 | 8.98 | 0 | |
| 240130 | 4.83 | 4.83 | 0 | 6.72 | 6.72 | 0 | 7.51 | 7.51 | 0 | 7.82 | 7.82 | 0 | 9.06 | 9.06 | 0 | |
| 240140 | 4.94 | 4.94 | 0 | 6.81 | 6.81 | 0 | 7.59 | 7.59 | 0 | 7.9 | 7.9 | 0 | 9.12 | 9.12 | 0 | |
| 240150 | 5.97 | 5.97 | 0 | 7.29 | 7.29 | 0 | 7.97 | 7.97 | 0 | 8.25 | 8.25 | 0 | 9.35 | 9.35 | 0 | |
| 240160 | 6.24 | 6.24 | 0 | 7.61 | 7.61 | 0 | 8.28 | 8.28 | 0 | 8.55 | 8.55 | 0 | 9.7 | 9.7 | 0 | |
| 240170 | 7.77 | 7.77 | 0 | 8.55 | 8.55 | 0 | 8.95 | 8.95 | 0 | 9.14 | 9.14 | 0 | 10.04 | 10.04 | 0 | |
| 240180 | 8.26 | 8.26 | 0 | 9.16 | 9.16 | 0 | 9.51 | 9.51 | 0 | 9.67 | 9.67 | 0 | 10.4 | 10.4 | 0 | |
| 240190 | 11.32 | 11.32 | 0 | 12.47 | 12.47 | 0 | 12.85 | 12.85 | 0 | 12.99 | 12.99 | 0 | 13.45 | 13.45 | 0 | |
| 240200 | 12.53 | 12.53 | 0 | 13.8 | 13.8 | 0 | 13.99 | 13.99 | 0 | 14.06 | 14.06 | 0 | 14.38 | 14.38 | 0 | |
| 240210 | 14.81 | 14.81 | 0 | 16.14 | 16.14 | 0 | 16.46 | 16.46 | 0 | 16.58 | 16.58 | 0 | 17.18 | 17.18 | 0 | |
| 240220 | 14.94 | 14.94 | 0 | 16.28 | 16.28 | 0 | 16.6 | 16.6 | 0 | 16.72 | 16.72 | 0 | 17.33 | 17.33 | 0 | |
| 240230 | 15.05 | 15.05 | 0 | 16.44 | 16.44 | 0 | 16.76 | 16.76 | 0 | 16.89 | 16.89 | 0 | 17.52 | 17.52 | 0 | |
| 240240 | 15.15 | 15.15 | 0 | 16.78 | 16.78 | 0 | 17.2 | 17.2 | 0 | 17.36 | 17.36 | 0 | 18.04 | 18.04 | 0 | |
| 240250 | 15.48 | 15.48 | 0 | 17.12 | 17.12 | 0 | 17.52 | 17.52 | 0 | 17.68 | 17.68 | 0 | 18.39 | 18.39 | 0 | |
| 240260 | 15.75 | 15.75 | 0 | 17.4 | 17.4 | 0 | 17.8 | 17.8 | 0 | 17.96 | 17.96 | 0 | 18.68 | 18.68 | 0 | |
| 240270 | 16.05 | 16.05 | 0 | 17.7 | 17.7 | 0 | 18.09 | 18.09 | 0 | 18.25 | 18.25 | 0 | 18.98 | 18.98 | 0 | |
| 240280 | 16.13 | 16.13 | 0 | 17.79 | 17.79 | 0 | 18.18 | 18.18 | 0 | 18.34 | 18.34 | 0 | 19.09 | 19.09 | 0 | |
| 240290 | 18.4 | 18.4 | 0 | 19.32 | 19.32 | 0 | 19.52 | 19.52 | 0 | 19.61 | 19.61 | 0 | 20.4 | 20.4 | 0 | |
| 240300 | 18.41 | 18.41 | 0 | 19.33 | 19.33 | 0 | 19.53 | 19.53 | 0 | 19.63 | 19.63 | 0 | 20.42 | 20.42 | 0 | |
| 240310 | 19.87 | 19.87 | 0 | 20.59 | 20.59 | 0 | 20.84 | 20.84 | 0 | 20.98 | 20.98 | 0 | 21.67 | 21.67 | 0 | |
| 240320 | 19.93 | 19.93 | 0 | 20.83 | 20.83 | 0 | 21.19 | 21.19 | 0 | 21.4 | 21.4 | 0 | 22.69 | 22.69 | 0 | |
| 240330 | 21.14 | 21.14 | 0 | 21.88 | 21.88 | 0 | 22.15 | 22.15 | 0 | 22.26 | 22.26 | 0 | 22.96 | 22.96 | 0 | |
| 240340 | 21.27 | 21.27 | 0 | 22.62 | 22.62 | 0 | 23.13 | 23.13 | 0 | 23.35 | 23.35 | 0 | 24.4 | 24.4 | 0 | |
| 240350 | 21.35 | 21.35 | 0 | 22.68 | 22.68 | 0 | 23.17 | 23.17 | 0 | 23.39 | 23.39 | 0 | 24.42 | 24.42 | 0 | |
| 240360 | 22.15 | 22.15 | 0 | 22.88 | 22.88 | 0 | 23.19 | 23.19 | 0 | 23.31 | 23.31 | 0 | 23.97 | 23.97 | 0 | |
| 240370 | 23.74 | 23.74 | 0 | 24.57 | 24.57 | 0 | 24.8 | 24.8 | 0 | 24.88 | 24.88 | 0 | 25.11 | 25.11 | 0 | |
| 240380 | 23.89 | 23.89 | 0 | 24.58 | 24.58 | 0 | 24.82 | 24.82 | 0 | 24.9 | 24.9 | 0 | 25.38 | 25.38 | 0 | |
| 240390 | 27.27 | 27.27 | 0 | 27.58 | 27.58 | 0 | 27.7 | 27.7 | 0 | 27.77 | 27.77 | 0 | 28.15 | 28.15 | 0 | |
| 240400 | 4.1 | 4.1 | 0 | 4.47 | 4.47 | 0 | 4.65 | 4.65 | 0 | 4.73 | 4.73 | 0 | 5.08 | 5.08 | 0 | |
| 240410 | 5.62 | 5.62 | 0 | 5.77 | 5.77 | 0 | 5.83 | 5.83 | 0 | 5.86 | 5.86 | 0 | 5.97 | 5.97 | 0 | |
| 240430 | 5.71 | 5.71 | 0 | 5.93 | 5.93 | 0 | 6.01 | 6.01 | 0 | 6.05 | 6.05 | 0 | 7.14 | 7.14 | 0 | |
| 240440 | 3.97 | 3.97 | 0 | 4.87 | 4.87 | 0 | 5.97 | 5.97 | 0 | 6.32 | 6.32 | 0 | 7.62 | 7.62 | 0 | |
| 240450 | 6.14 | 6.14 | 0 | 6.42 | 6.42 | 0 | 6.55 | 6.55 | 0 | 6.61 | 6.61 | 0 | 7.62 | 7.62 | 0 | |
| 240460 | 3.12 | 3.12 | 0 | 5.12 | 5.12 | 0 | 6.18 | 6.18 | 0 | 6.52 | 6.52 | 0 | 7.84 | 7.84 | 0 | |
| 240470 | 3.01 | 3.01 | 0 | 4.71 | 4.71 | 0 | 6.18 | 6.18 | 0 | 6.52 | 6.52 | 0 | 7.84 | 7.84 | 0 | |
| 240480 | 6.27 | 6.27 | 0 | 7.13 | 7.13 | 0 | 7.42 | 7.42 | 0 | 7.55 | 7.55 | 0 | 8.03 | 8.03 | 0 | |
| 240490 | 7.35 | 7.35 | 0 | 7.59 | 7.59 | 0 | 7.73 | 7.73 | 0 | 7.8 | 7.8 | 0 | 8.17 | 8.17 | 0 | |
| 240500 | 5.13 | 5.13 | 0 | 7.26 | 7.26 | 0 | 7.55 | 7.55 | 0 | 7.76 | 7.76 | 0 | 8.84 | 8.84 | 0 | |
| 240510 | 10.05 | 10.05 | 0 | 10.56 | 10.56 | 0 | 10.78 | 10.78 | 0 | 10.87 | 10.87 | 0 | 11.29 | 11.29 | 0 | |
| 240520 | 11.98 | 11.98 | 0 | 12.1 | 12.1 | 0 | 12.15 | 12.15 | 0 | 12.18 | 12.18 | 0 | 12.3 | 12.3 | 0 | |
| 240530 | 9.08 | 9.08 | 0 | 9.51 | 9.51 | 0 | 9.74 | 9.74 | 0 | 9.84 | 9.84 | 0 | 10.28 | 10.28 | 0 | |
| 240540 | 8.01 | 8.01 | 0 | 8.49 | 8.49 | 0 | 9.97 | 9.97 | 0 | 10.41 | 10.41 | 0 | 11.47 | 11.47 | 0 | |
| 240550 | 9.6 | 9.6 | 0 | 10.28 | 10.28 | 0 | 10.56 | 10.56 | 0 | 10.7 | 10.7 | 0 | 11.51 | 11.51 | 0 | |
| 240560 | 10.44 | 10.44 | 0 | 10.68 | 10.68 | 0 | 10.78 | 10.78 | 0 | 10.83 | 10.83 | 0 | 11.02 | 11.02 | 0 | |
| 240570 | 6.3 | 6.3 | 0 | 7.35 | 7.35 | 0 | 7.9 | 7.9 | 0 | 8.16 | 8.16 | 0 | 9.42 | 9.42 | 0 | |
| 240580 | 8.61 | 8.61 | 0 | 9.58 | 9.58 | 0 | 10.81 | 10.81 | 0 | 11.52 | 11.52 | 0 | 12.83 | 12.83 | 0 | |
| 240590 | 12.12 | 12.12 | 0 | 12.42 | 12.42 | 0 | 12.55 | 12.55 | 0 | 12.61 | 12.61 | 0 | 12.95 | 12.95 | 0 | |
| 240600 | 12.82 | 12.82 | 0 | 13 | 13 | 0 | 13.06 | 13.06 | 0 | 13.09 | 13.09 | 0 | 13.22 | 13.22 | 0 | |
| 240610 | 12.16 | 12.16 | 0 | 12.68 | 12.68 | 0 | 12.9 | 12.9 | 0 | 12.99 | 12.99 | 0 | 13.61 | 13.61 | 0 | |
| 240620 | 13.79 | 13.79 | 0 | 14.46 | 14.46 | 0 | 14.64 | 14.64 | 0 | 14.75 | 14.75 | 0 | 15.21 | 15.21 | 0 | |
| 240630 | 14.09 | 14.09 | 0 | 14.46 | 14.46 | 0 | 14.65 | 14.65 | 0 | 14.75 | 14.75 | 0 | 15.21 | 15.21 | 0 | |
| 240640 | 12.88 | 12.88 | 0 | 13.29 | 13.29 | 0 | 13.62 | 13.62 | 0 | 13.95 | 13.95 | 0 | 15.01 | 15.01 | 0 | |
| 240650 | 13.99 | 13.99 | 0 | 14.51 | 14.51 | 0 | 14.76 | 14.76 | 0 | 14.85 | 14.85 | 0 | 15.14 | 15.14 | 0 | |
| 240660 | 8.4 | 8.4 | 0 | 10.62 | 10.62 | 0 | 11.25 | 11.25 | 0 | 11.42 | 11.42 | 0 | 12.04 | 12.04 | 0 | |
| 240670 | 8.41 | 8.41 | 0 | 10.63 | 10.63 | 0 | 11.26 | 11.26 | 0 | 11.43 | 11.43 | 0 | 12.04 | 12.04 | 0 | |
| 240680 | 11.56 | 11.56 | 0 | 12.5 | 12.5 | 0 | 12.82 | 12.82 | 0 | 12.95 | 12.95 | 0 | 13.52 | 13.52 | 0 | |
| 240690 | 11.59 | 11.59 | 0 | 12.53 | 12.53 | 0 | 12.85 | 12.85 | 0 | 12.99 | 12.99 | 0 | 13.57 | 13.57 | 0 | |
| 240695 | 12.43 | 12.43 | 0 | 12.87 | 12.87 | 0 | 13.11 | 13.11 | 0 | 13.23 | 13.23 | 0 | 13.74 | 13.74 | 0 | |
| 240700 | 12.39 | 12.39 | 0 | 12.72 | 12.72 | 0 | 12.94 | 12.94 | 0 | 13.04 | 13.04 | 0 | 13.44 | 13.44 | 0 | |
| 240710 | | | | | | | | | | | | | | | | |

Summary of Corrected and Revised Stages for Bridge Culvert

| Node | 2.33YR24HR | | | 25YR24HR | | | 50YR24HR | | | 100YR24HR | | | 500YR24HR | | | Notes |
|--------|--------------------------------|---------------------|-----------------|--------------------------------|---------------------|-----------------|--------------------------------|---------------------|-----------------|--------------------------------|---------------------|-----------------|--------------------------------|---------------------|-----------------|-------|
| | Corrected Effective Stage (ft) | Proposed Stage (ft) | Difference (ft) | Corrected Effective Stage (ft) | Proposed Stage (ft) | Difference (ft) | Corrected Effective Stage (ft) | Proposed Stage (ft) | Difference (ft) | Corrected Effective Stage (ft) | Proposed Stage (ft) | Difference (ft) | Corrected Effective Stage (ft) | Proposed Stage (ft) | Difference (ft) | |
| 240740 | 14.34 | 14.34 | 0 | 14.76 | 14.76 | 0 | 14.98 | 14.98 | 0 | 15.09 | 15.09 | 0 | 15.65 | 15.65 | 0 | |
| 240750 | 14.36 | 14.36 | 0 | 14.74 | 14.74 | 0 | 14.91 | 14.91 | 0 | 15 | 15 | 0 | 15.41 | 15.41 | 0 | |
| 240760 | 14.71 | 14.71 | 0 | 15.3 | 15.3 | 0 | 15.42 | 15.42 | 0 | 15.46 | 15.46 | 0 | 15.7 | 15.7 | 0 | |
| 240770 | 16.18 | 16.18 | 0 | 16.7 | 16.7 | 0 | 16.95 | 16.95 | 0 | 17.07 | 17.07 | 0 | 17.55 | 17.55 | 0 | |
| 240780 | 16.21 | 16.21 | 0 | 16.68 | 16.68 | 0 | 16.92 | 16.92 | 0 | 17.04 | 17.04 | 0 | 17.51 | 17.51 | 0 | |
| 240790 | 16.22 | 16.22 | 0 | 16.48 | 16.48 | 0 | 16.63 | 16.63 | 0 | 16.7 | 16.7 | 0 | 16.98 | 16.98 | 0 | |
| 240800 | 16.44 | 16.44 | 0 | 16.77 | 16.77 | 0 | 16.94 | 16.94 | 0 | 17.01 | 17.01 | 0 | 17.32 | 17.32 | 0 | |
| 240810 | 17.17 | 17.17 | 0 | 17.44 | 17.44 | 0 | 17.54 | 17.54 | 0 | 17.59 | 17.59 | 0 | 17.77 | 17.77 | 0 | |
| 240820 | 17.2 | 17.2 | 0 | 17.47 | 17.47 | 0 | 17.6 | 17.6 | 0 | 17.65 | 17.65 | 0 | 17.91 | 17.91 | 0 | |
| 240830 | 17.92 | 17.92 | 0 | 18.41 | 18.41 | 0 | 18.54 | 18.54 | 0 | 18.6 | 18.6 | 0 | 18.84 | 18.84 | 0 | |
| 240840 | 18.21 | 18.21 | 0 | 18.88 | 18.88 | 0 | 19.12 | 19.12 | 0 | 19.23 | 19.23 | 0 | 19.65 | 19.65 | 0 | |
| 240850 | 18.39 | 18.39 | 0 | 18.92 | 18.92 | 0 | 19.15 | 19.15 | 0 | 19.25 | 19.25 | 0 | 19.68 | 19.68 | 0 | |
| 240860 | 19.28 | 19.28 | 0 | 19.62 | 19.62 | 0 | 19.76 | 19.76 | 0 | 19.83 | 19.83 | 0 | 20.13 | 20.13 | 0 | |
| 240900 | 13.79 | 13.79 | 0 | 14.29 | 14.29 | 0 | 14.47 | 14.47 | 0 | 14.55 | 14.55 | 0 | 14.91 | 14.91 | 0 | |
| 240910 | 14.34 | 14.34 | 0 | 14.9 | 14.9 | 0 | 15.21 | 15.21 | 0 | 15.32 | 15.32 | 0 | 15.86 | 15.86 | 0 | |
| 240920 | 16.04 | 16.04 | 0 | 16.35 | 16.35 | 0 | 16.48 | 16.48 | 0 | 16.54 | 16.54 | 0 | 16.8 | 16.8 | 0 | |
| 240930 | 13.05 | 13.05 | 0 | 14.89 | 14.89 | 0 | 15.2 | 15.2 | 0 | 15.31 | 15.31 | 0 | 15.78 | 15.78 | 0 | |
| 240940 | 14.34 | 14.34 | 0 | 14.76 | 14.76 | 0 | 14.98 | 14.98 | 0 | 15.09 | 15.09 | 0 | 15.67 | 15.67 | 0 | |
| 240950 | 14.34 | 14.34 | 0 | 14.77 | 14.77 | 0 | 14.98 | 14.98 | 0 | 15.1 | 15.1 | 0 | 15.67 | 15.67 | 0 | |
| 241000 | 16.28 | 16.28 | 0 | 16.73 | 16.73 | 0 | 16.96 | 16.96 | 0 | 17.08 | 17.08 | 0 | 17.82 | 17.82 | 0 | |
| 241010 | 15.15 | 15.15 | 0 | 15.28 | 15.28 | 0 | 15.35 | 15.35 | 0 | 15.38 | 15.38 | 0 | 15.54 | 15.54 | 0 | |
| 241100 | 16.13 | 16.13 | 0 | 18.41 | 18.41 | 0 | 19.35 | 19.35 | 0 | 19.68 | 19.68 | 0 | 20.82 | 20.82 | 0 | |
| 241110 | 16.13 | 16.13 | 0 | 18.41 | 18.41 | 0 | 19.35 | 19.35 | 0 | 19.69 | 19.69 | 0 | 20.82 | 20.82 | 0 | |
| 241120 | 16.58 | 16.58 | 0 | 18.41 | 18.41 | 0 | 19.36 | 19.36 | 0 | 19.7 | 19.7 | 0 | 20.84 | 20.84 | 0 | |
| 241130 | 18.02 | 18.02 | 0 | 18.41 | 18.41 | 0 | 19.36 | 19.36 | 0 | 19.7 | 19.7 | 0 | 20.84 | 20.84 | 0 | |
| 241140 | 20.23 | 20.23 | 0 | 20.69 | 20.69 | 0 | 20.92 | 20.92 | 0 | 21.05 | 21.05 | 0 | 21.52 | 21.52 | 0 | |
| 241150 | 20.21 | 20.21 | 0 | 20.59 | 20.59 | 0 | 20.93 | 20.93 | 0 | 21.09 | 21.09 | 0 | 21.8 | 21.8 | 0 | |
| 241160 | 20.29 | 20.29 | 0 | 20.56 | 20.56 | 0 | 20.94 | 20.94 | 0 | 21.09 | 21.09 | 0 | 21.8 | 21.8 | 0 | |
| 241170 | 16.13 | 16.13 | 0 | 18.41 | 18.41 | 0 | 19.28 | 19.28 | 0 | 19.5 | 19.5 | 0 | 20.11 | 20.11 | 0 | |
| 241180 | 16.13 | 16.13 | 0 | 18.41 | 18.41 | 0 | 19.27 | 19.27 | 0 | 19.5 | 19.5 | 0 | 20.09 | 20.09 | 0 | |
| 241190 | 16.13 | 16.13 | 0 | 18.41 | 18.41 | 0 | 19.27 | 19.27 | 0 | 19.5 | 19.5 | 0 | 20.09 | 20.09 | 0 | |
| 241200 | 16.56 | 16.56 | 0 | 18.41 | 18.41 | 0 | 19.27 | 19.27 | 0 | 19.5 | 19.5 | 0 | 20.09 | 20.09 | 0 | |
| 241210 | 17.53 | 17.53 | 0 | 18.41 | 18.41 | 0 | 19.24 | 19.24 | 0 | 19.42 | 19.42 | 0 | 19.81 | 19.81 | 0 | |
| 241220 | 16.13 | 16.13 | 0 | 18.41 | 18.41 | 0 | 19.36 | 19.36 | 0 | 19.81 | 19.81 | 0 | 21.56 | 21.56 | 0 | |
| 241230 | 16.47 | 16.47 | 0 | 18.56 | 18.56 | 0 | 19.36 | 19.36 | 0 | 19.82 | 19.82 | 0 | 21.56 | 21.56 | 0 | |
| 241240 | 19.34 | 19.34 | 0 | 19.97 | 19.97 | 0 | 20.14 | 20.14 | 0 | 20.21 | 20.21 | 0 | 21.58 | 21.58 | 0 | |
| 241250 | 19.32 | 19.32 | 0 | 20.06 | 20.06 | 0 | 20.59 | 20.59 | 0 | 20.79 | 20.79 | 0 | 21.5 | 21.5 | 0 | |
| 241260 | 19.24 | 19.24 | 0 | 20.56 | 20.56 | 0 | 20.93 | 20.93 | 0 | 21.09 | 21.09 | 0 | 21.8 | 21.8 | 0 | |
| 241270 | 19.56 | 19.56 | 0 | 20.56 | 20.56 | 0 | 20.94 | 20.94 | 0 | 21.09 | 21.09 | 0 | 21.8 | 21.8 | 0 | |
| 241300 | 18.57 | 18.57 | 0 | 19.58 | 19.58 | 0 | 19.76 | 19.76 | 0 | 19.85 | 19.85 | 0 | 20.82 | 20.82 | 0 | |
| 241310 | 18.94 | 18.94 | 0 | 20.24 | 20.24 | 0 | 20.45 | 20.45 | 0 | 20.56 | 20.56 | 0 | 21.11 | 21.11 | 0 | |
| 241320 | 19.31 | 19.31 | 0 | 20.8 | 20.8 | 0 | 21.09 | 21.09 | 0 | 21.23 | 21.23 | 0 | 21.73 | 21.73 | 0 | |
| 241330 | 19.55 | 19.55 | 0 | 20.92 | 20.92 | 0 | 21.19 | 21.19 | 0 | 21.3 | 21.3 | 0 | 21.74 | 21.74 | 0 | |
| 241340 | 19.84 | 19.84 | 0 | 21.23 | 21.23 | 0 | 21.58 | 21.58 | 0 | 21.72 | 21.72 | 0 | 22.28 | 22.28 | 0 | |
| 241350 | 19.87 | 19.87 | 0 | 21.35 | 21.35 | 0 | 21.74 | 21.74 | 0 | 21.9 | 21.9 | 0 | 22.54 | 22.54 | 0 | |
| 241360 | 20.88 | 20.88 | 0 | 22.12 | 22.12 | 0 | 22.44 | 22.44 | 0 | 22.58 | 22.58 | 0 | 23.13 | 23.13 | 0 | |
| 241370 | 20.91 | 20.91 | 0 | 22.16 | 22.16 | 0 | 22.49 | 22.49 | 0 | 22.62 | 22.62 | 0 | 23.18 | 23.18 | 0 | |
| 241380 | 21.12 | 21.12 | 0 | 22.21 | 22.21 | 0 | 22.53 | 22.53 | 0 | 22.66 | 22.66 | 0 | 23.2 | 23.2 | 0 | |
| 241390 | 21.13 | 21.13 | 0 | 22.26 | 22.26 | 0 | 22.65 | 22.65 | 0 | 22.8 | 22.8 | 0 | 23.39 | 23.39 | 0 | |
| 241400 | 21.14 | 21.14 | 0 | 22.37 | 22.37 | 0 | 22.8 | 22.8 | 0 | 22.97 | 22.97 | 0 | 23.66 | 23.66 | 0 | |
| 241410 | 21.16 | 21.16 | 0 | 22.99 | 22.99 | 0 | 23.5 | 23.5 | 0 | 23.7 | 23.7 | 0 | 24.62 | 24.62 | 0 | |
| 241420 | 21.18 | 21.18 | 0 | 23.15 | 23.15 | 0 | 23.57 | 23.57 | 0 | 23.76 | 23.76 | 0 | 24.64 | 24.64 | 0 | |
| 241430 | 21.2 | 21.2 | 0 | 23.58 | 23.58 | 0 | 24.14 | 24.14 | 0 | 24.35 | 24.35 | 0 | 25.06 | 25.06 | 0 | |
| 241440 | 21.4 | 21.4 | 0 | 25.04 | 25.04 | 0 | 25.99 | 25.99 | 0 | 26.22 | 26.22 | 0 | 26.55 | 26.55 | 0 | |
| 241450 | 25.11 | 25.11 | 0 | 25.27 | 25.27 | 0 | 26.44 | 26.44 | 0 | 26.95 | 26.95 | 0 | 28.31 | 28.31 | 0 | |
| 241460 | 26.78 | 26.78 | 0 | 26.91 | 26.91 | 0 | 27.15 | 27.15 | 0 | 27.38 | 27.38 | 0 | 29.12 | 29.12 | 0 | |
| 241470 | 28.02 | 28.02 | 0 | 28.66 | 28.66 | 0 | 28.88 | 28.88 | 0 | 28.96 | 28.96 | 0 | 29.28 | 29.28 | 0 | |
| 241500 | 18.57 | 18.57 | 0 | 19.58 | 19.58 | 0 | 19.76 | 19.76 | 0 | 19.85 | 19.85 | 0 | 20.82 | 20.82 | 0 | |
| 241510 | 18.57 | 18.57 | 0 | 19.58 | 19.58 | 0 | 19.78 | 19.79 | 0.01 | 19.89 | 19.89 | 0 | 21.41 | 21.41 | 0 | |
| 241520 | 20.13 | 20.13 | 0 | 20.8 | 20.8 | 0 | 21.04 | 21.04 | 0 | 21.14 | 21.14 | 0 | 21.74 | 21.74 | 0 | |
| 241530 | 18.57 | 18.57 | 0 | 19.58 | 19.58 | 0 | 19.76 | 19.76 | 0 | 19.85 | 19.85 | 0 | 21 | 21 | 0 | |
| 241540 | 20.16 | 20.16 | 0 | 20.52 | 20.52 | 0 | 20.66 | 20.66 | 0 | 20.71 | 20.71 | 0 | 21.13 | 21.13 | 0 | |
| 241550 | 18.94 | 18.94 | 0 | 20.24 | 20.24 | 0 | 20.46 | 20.46 | 0 | 20.57 | 20.57 | 0 | 21.6 | 21.6 | 0 | |
| 241560 | 18.94 | 18.94 | 0 | 20.24 | 20.24 | 0 | 20.47 | 20.47 | 0 | 20.81 | 20.81 | 0 | 21.95 | 21.95 | 0 | |
| 241570 | 20.99 | 20.99 | 0 | 21.44 | 21.44 | 0 | 21.66 | 21.66 | 0 | 21.76 | 21.76 | 0 | 22.39 | 22.39 | 0 | |
| 241580 | 21.05 | 21.05 | 0 | 21.49 | 21.49 | 0 | 21.7 | 21.7 | 0 | 21.8 | 21.8 | 0 | 22.39 | 22.39 | 0 | |
| 241590 | 20.74 | 20.74 | 0 | 21.28 | 21.28 | 0 | 21.42 | 21.42 | 0 | 21.49 | 21.49 | 0 | 21.82 | 21.82 | 0 | |
| 241600 | 26.37 | 26.37 | 0 | 27.25 | 27.25 | 0 | 28.5 | 28.5 | 0 | 28.84 | 28.84 | 0 | 29.96 | 29.96 | 0 | |
| 241610 | 28.18 | 28.18 | 0 | 28.79 | 28.79 | 0 | 28.93 | 28.93 | 0 | 29.08 | 29.08 | 0 | 29.99 | 29.99 | 0 | |
| 241620 | 28.19 | 28.19 | 0 | 29.02 | 29.02 | 0 | 29.33 | 29.33 | 0 | 29.51 | 29.51 | 0 | 30.31 | 30.31 | 0 | |
| 241630 | 28.19 | 28.19 | 0 | 29.02 | 29.02 | 0 | 29.33 | 29.33 | 0 | 29.51 | 29.51 | 0 | 30.28 | 30.28 | 0 | |
| 241640 | 28.78 | 28.78 | 0 | 29.29 | 29.29 | 0 | 29.52 | 29.52 | 0 | 29.63 | 29.63 | 0 | 30.25 | 30.25 | 0 | |
| 241650 | 28.78 | 28.78 | 0 | 29.29 | 29.29 | 0 | 29.52 | 29.52 | 0 | 29.63 | 29.63 | 0 | 30.25 | 30.25 | 0 | |
| 241660 | 29.13 | 29.13 | 0 | 29.33 | 29.33 | 0 | 29.45 | 29.45 | 0 | 29.51 | 29.51 | 0 | 30.31 | 30.31 | 0 | |
| 241670 | 27.73 | 27.73 | 0 | 28.06 | 28.06 | 0 | 28.52 | 28.52 | 0 | 28.87 | 28.87 | 0 | 29.98 | 29.98 | 0 | |
| 241680 | 29.64 | 29.64 | 0 | 30.27 | 30.27 | 0 | 30.51 | 30.51 | 0 | 30.61 | 30.61 | 0 | 30.89 | 30.89 | 0 | |
| 241690 | 28.24 | 28.24 | 0 | 29.13 | 29.13 | 0 | 29.43 | 29.43 | 0 | 29.59 | 29.59 | 0 | 30.34 | 30.34 | 0 | |
| 241695 | 28.24 | 28.24 | 0 | 29.15 | 29.15 | 0 | 29.45 | 29.45 | 0 | 29.62 | 29.62 | 0 | 30.38 | 30.38 | 0 | |
| 241700 | 19.43 | 19.43 | 0 | 20.96 | 20.96 | 0 | 21.29 | 21.29 | 0 | 21.44 | 21.44 | 0 | 22.01 | 22.01 | 0 | |
| 241710 | 20.64 | 20.64 | 0 | 22.15 | 22.15 | 0 | 22.51 | 22.51 | 0 | 22.67 | 22.67 | 0 | 23.23 | 23.23 | 0 | |
| 241720 | 20.76 | 20.76 | 0 | 22.59 | 22.59 | 0 | 23.06 | 23.06 | 0 | 23.27 | 23.27 | 0 | 24.11 | 24.11 | 0 | |
| 241730 | 20.86 | 20.86 | 0 | 22.99 | 22.99 | 0 | 23.54 | 23.54 | 0 | 23.77 | 23.77 | 0 | 24.64 | 24.64 | 0 | |
| 241740 | 20.96 | 20.96 | 0 | 23.36 | 23.36 | 0 | 23.97 | 23.97 | 0 | 24.22 | 24.22 | 0 | 25.1 | | | |

Summary of Corrected and Revised Stages for Bridge Culvert

| Node | 2.33YR24HR | | | 25YR24HR | | | 50YR24HR | | | 100YR24HR | | | 500YR24HR | | | Notes |
|--------|--------------------------------|---------------------|-----------------|--------------------------------|---------------------|-----------------|--------------------------------|---------------------|-----------------|--------------------------------|---------------------|-----------------|--------------------------------|---------------------|-----------------|-------|
| | Corrected Effective Stage (ft) | Proposed Stage (ft) | Difference (ft) | Corrected Effective Stage (ft) | Proposed Stage (ft) | Difference (ft) | Corrected Effective Stage (ft) | Proposed Stage (ft) | Difference (ft) | Corrected Effective Stage (ft) | Proposed Stage (ft) | Difference (ft) | Corrected Effective Stage (ft) | Proposed Stage (ft) | Difference (ft) | |
| 241800 | 22.44 | 22.44 | 0 | 26.54 | 26.54 | 0 | 27.59 | 27.59 | 0 | 27.98 | 27.98 | 0 | 29.48 | 29.48 | 0 | |
| 241810 | 24.3 | 24.3 | 0 | 26.98 | 26.98 | 0 | 27.98 | 27.98 | 0 | 28.34 | 28.34 | 0 | 29.7 | 29.7 | 0 | |
| 242100 | 20.71 | 20.71 | 0 | 22.27 | 22.27 | 0 | 23.1 | 23.1 | 0 | 23.44 | 23.44 | 0 | 24.64 | 24.64 | 0 | |
| 242110 | 22.15 | 22.15 | 0 | 22.92 | 22.92 | 0 | 23.4 | 23.4 | 0 | 23.64 | 23.64 | 0 | 24.7 | 24.7 | 0 | |
| 242120 | 24.45 | 24.45 | 0 | 26.15 | 26.15 | 0 | 26.46 | 26.46 | 0 | 26.58 | 26.58 | 0 | 27.06 | 27.06 | 0 | |
| 242130 | 25.13 | 25.13 | 0 | 26.18 | 26.18 | 0 | 26.48 | 26.48 | 0 | 26.59 | 26.59 | 0 | 27.06 | 27.06 | 0 | |
| 242140 | 25.18 | 25.18 | 0 | 26.27 | 26.27 | 0 | 26.7 | 26.7 | 0 | 26.89 | 26.89 | 0 | 27.61 | 27.61 | 0 | |
| 242150 | 25.5 | 25.5 | 0 | 26.27 | 26.27 | 0 | 26.7 | 26.7 | 0 | 26.89 | 26.89 | 0 | 27.61 | 27.61 | 0 | |
| 242160 | 20.64 | 20.64 | 0 | 22.31 | 22.31 | 0 | 22.88 | 22.88 | 0 | 23.13 | 23.13 | 0 | 24.12 | 24.12 | 0 | |
| 242170 | 21.54 | 21.54 | 0 | 22.38 | 22.38 | 0 | 22.9 | 22.9 | 0 | 23.14 | 23.14 | 0 | 24.13 | 24.13 | 0 | |
| 242180 | 21.98 | 21.98 | 0 | 26.19 | 26.19 | 0 | 27.26 | 27.26 | 0 | 27.7 | 27.7 | 0 | 30.17 | 30.17 | 0 | |
| 242190 | 28.81 | 28.81 | 0 | 29.55 | 29.55 | 0 | 29.83 | 29.83 | 0 | 29.95 | 29.95 | 0 | 30.49 | 30.49 | 0 | |
| 242200 | 28.82 | 28.82 | 0 | 29.58 | 29.58 | 0 | 29.91 | 29.91 | 0 | 30.11 | 30.11 | 0 | 30.92 | 30.92 | 0 | |
| 242210 | 28.83 | 28.83 | 0 | 29.25 | 29.25 | 0 | 29.44 | 29.44 | 0 | 29.53 | 29.53 | 0 | 29.94 | 29.94 | 0 | |
| 242220 | 28.77 | 28.77 | 0 | 29.52 | 29.52 | 0 | 29.81 | 29.81 | 0 | 29.94 | 29.94 | 0 | 30.49 | 30.49 | 0 | |
| 242230 | 28.77 | 28.77 | 0 | 29.23 | 29.23 | 0 | 29.55 | 29.55 | 0 | 29.67 | 29.67 | 0 | 30.26 | 30.26 | 0 | |
| 242300 | 27.83 | 27.83 | 0 | 29.23 | 29.23 | 0 | 29.54 | 29.54 | 0 | 29.66 | 29.66 | 0 | 30.26 | 30.26 | 0 | |
| 242310 | 28.03 | 28.03 | 0 | 29.23 | 29.23 | 0 | 29.55 | 29.55 | 0 | 29.66 | 29.66 | 0 | 30.26 | 30.26 | 0 | |
| 242320 | 28.62 | 28.62 | 0 | 29.3 | 29.3 | 0 | 29.55 | 29.55 | 0 | 29.66 | 29.66 | 0 | 30.26 | 30.26 | 0 | |
| 242330 | 28.99 | 28.99 | 0 | 29.51 | 29.51 | 0 | 29.78 | 29.78 | 0 | 29.9 | 29.9 | 0 | 30.41 | 30.41 | 0 | |
| 242400 | 19.58 | 19.58 | 0 | 20.99 | 20.99 | 0 | 21.37 | 21.37 | 0 | 21.56 | 21.56 | 0 | 22.37 | 22.37 | 0 | |
| 242410 | 19.6 | 19.6 | 0 | 21 | 21 | 0 | 21.38 | 21.38 | 0 | 21.56 | 21.56 | 0 | 22.38 | 22.38 | 0 | |
| 242420 | 23.88 | 23.88 | 0 | 24.44 | 24.44 | 0 | 24.68 | 24.68 | 0 | 24.79 | 24.79 | 0 | 25.25 | 25.25 | 0 | |
| 242430 | 24.47 | 24.47 | 0 | 25.59 | 25.59 | 0 | 25.89 | 25.89 | 0 | 26.01 | 26.01 | 0 | 26.56 | 26.56 | 0 | |
| 242440 | 25.51 | 25.51 | 0 | 26.09 | 26.09 | 0 | 26.41 | 26.41 | 0 | 26.65 | 26.65 | 0 | 27.83 | 27.83 | 0 | |
| 242450 | 26.48 | 26.48 | 0 | 27.02 | 27.02 | 0 | 27.29 | 27.29 | 0 | 27.51 | 27.51 | 0 | 28.42 | 28.42 | 0 | |
| 242460 | 28.14 | 28.14 | 0 | 28.39 | 28.39 | 0 | 28.51 | 28.51 | 0 | 28.57 | 28.57 | 0 | 28.9 | 28.9 | 0 | |
| 242470 | 28.6 | 28.6 | 0 | 29.45 | 29.45 | 0 | 29.75 | 29.75 | 0 | 29.88 | 29.88 | 0 | 30.44 | 30.44 | 0 | |
| 242480 | 26.24 | 26.24 | 0 | 26.31 | 26.31 | 0 | 26.34 | 26.34 | 0 | 26.35 | 26.35 | 0 | 26.56 | 26.56 | 0 | |
| 242490 | 24.78 | 24.78 | 0 | 27.68 | 27.68 | 0 | 28.03 | 28.03 | 0 | 28.14 | 28.14 | 0 | 28.53 | 28.53 | 0 | |
| 242500 | 26.45 | 26.45 | 0 | 27.87 | 27.87 | 0 | 28.12 | 28.12 | 0 | 28.2 | 28.2 | 0 | 28.55 | 28.55 | 0 | |
| 242510 | 25.51 | 25.51 | 0 | 26.1 | 26.1 | 0 | 26.42 | 26.42 | 0 | 26.71 | 26.71 | 0 | 29.01 | 29.01 | 0 | |
| 242520 | 26.84 | 26.84 | 0 | 27.95 | 27.95 | 0 | 28.42 | 28.42 | 0 | 28.51 | 28.51 | 0 | 29.12 | 29.12 | 0 | |
| 242530 | 20.89 | 20.89 | 0 | 22.12 | 22.12 | 0 | 22.49 | 22.49 | 0 | 22.63 | 22.63 | 0 | 23.21 | 23.21 | 0 | |
| 242540 | 20.87 | 20.87 | 0 | 22.13 | 22.13 | 0 | 22.5 | 22.5 | 0 | 22.64 | 22.64 | 0 | 23.22 | 23.22 | 0 | |
| 242550 | 20.87 | 20.87 | 0 | 22.13 | 22.13 | 0 | 22.5 | 22.5 | 0 | 22.64 | 22.64 | 0 | 23.23 | 23.23 | 0 | |
| 242560 | 21.14 | 21.14 | 0 | 22.21 | 22.21 | 0 | 22.53 | 22.53 | 0 | 22.65 | 22.65 | 0 | 23.16 | 23.16 | 0 | |
| 242570 | 21.2 | 21.2 | 0 | 22.06 | 22.06 | 0 | 22.21 | 22.21 | 0 | 22.27 | 22.27 | 0 | 22.58 | 22.58 | 0 | |
| 242600 | 21.18 | 21.18 | 0 | 22.26 | 22.26 | 0 | 22.54 | 22.54 | 0 | 22.65 | 22.65 | 0 | 23.16 | 23.16 | 0 | |
| 242610 | 21.23 | 21.23 | 0 | 22.31 | 22.31 | 0 | 22.54 | 22.54 | 0 | 22.65 | 22.65 | 0 | 23.16 | 23.16 | 0 | |
| 242615 | 21.37 | 21.37 | 0 | 22.38 | 22.38 | 0 | 22.5 | 22.5 | 0 | 22.56 | 22.56 | 0 | 22.8 | 22.8 | 0 | |
| 242620 | 18.59 | 18.59 | 0 | 19.7 | 19.7 | 0 | 20.26 | 20.26 | 0 | 21.24 | 21.24 | 0 | 23.4 | 23.4 | 0 | |
| 242630 | 20.4 | 20.4 | 0 | 21.66 | 21.66 | 0 | 22.21 | 22.21 | 0 | 22.38 | 22.38 | 0 | 23.41 | 23.41 | 0 | |
| 242640 | 19.87 | 19.87 | 0 | 20.61 | 20.61 | 0 | 20.88 | 20.88 | 0 | 21.02 | 21.02 | 0 | 21.78 | 21.78 | 0 | |
| 242650 | 21.93 | 21.93 | 0 | 22.48 | 22.48 | 0 | 22.87 | 22.87 | 0 | 23.06 | 23.06 | 0 | 23.86 | 23.86 | 0 | |
| 242660 | 19.98 | 19.98 | 0 | 20.87 | 20.87 | 0 | 21.23 | 21.23 | 0 | 21.44 | 21.44 | 0 | 22.97 | 22.97 | 0 | |
| 242670 | 20.64 | 20.64 | 0 | 22.14 | 22.14 | 0 | 22.64 | 22.64 | 0 | 22.82 | 22.82 | 0 | 23.38 | 23.38 | 0 | |
| 242680 | 21.15 | 21.15 | 0 | 21.9 | 21.9 | 0 | 22.17 | 22.17 | 0 | 22.26 | 22.26 | 0 | 22.74 | 22.74 | 0 | |
| 242690 | 21.15 | 21.15 | 0 | 21.9 | 21.9 | 0 | 22.17 | 22.17 | 0 | 22.26 | 22.26 | 0 | 22.74 | 22.74 | 0 | |
| 242700 | 22.08 | 22.08 | 0 | 23.01 | 23.01 | 0 | 23.45 | 23.45 | 0 | 23.65 | 23.65 | 0 | 24.58 | 24.58 | 0 | |
| 242710 | 22.18 | 22.18 | 0 | 23.13 | 23.13 | 0 | 23.56 | 23.56 | 0 | 23.75 | 23.75 | 0 | 24.61 | 24.61 | 0 | |
| 242720 | 22.53 | 22.53 | 0 | 23.15 | 23.15 | 0 | 23.56 | 23.56 | 0 | 23.76 | 23.76 | 0 | 24.67 | 24.67 | 0 | |
| 242730 | 22.68 | 22.68 | 0 | 23.18 | 23.18 | 0 | 23.61 | 23.61 | 0 | 23.81 | 23.81 | 0 | 26.01 | 26.01 | 0 | |
| 242740 | 25.94 | 25.94 | 0 | 26.69 | 26.69 | 0 | 27.09 | 27.09 | 0 | 27.28 | 27.28 | 0 | 27.84 | 27.84 | 0 | |
| 242800 | 9.81 | 9.81 | 0 | 10.4 | 10.4 | 0 | 10.5 | 10.5 | 0 | 10.58 | 10.58 | 0 | 11.12 | 11.12 | 0 | |
| 242810 | 11.19 | 11.19 | 0 | 11.84 | 11.84 | 0 | 11.99 | 11.99 | 0 | 12.06 | 12.06 | 0 | 12.36 | 12.36 | 0 | |
| 242820 | 12.8 | 12.8 | 0 | 13.28 | 13.28 | 0 | 13.43 | 13.43 | 0 | 13.49 | 13.49 | 0 | 13.78 | 13.78 | 0 | |
| 242830 | 12.63 | 12.63 | 0 | 13.29 | 13.29 | 0 | 13.43 | 13.43 | 0 | 13.49 | 13.49 | 0 | 13.78 | 13.78 | 0 | |
| 242840 | 12.84 | 12.84 | 0 | 13.52 | 13.52 | 0 | 13.99 | 13.99 | 0 | 14.3 | 14.3 | 0 | 15.31 | 15.31 | 0 | |
| 242850 | 13.85 | 13.85 | 0 | 14.47 | 14.47 | 0 | 14.75 | 14.75 | 0 | 14.86 | 14.86 | 0 | 15.4 | 15.4 | 0 | |
| 242860 | 18.94 | 18.94 | 0 | 20.25 | 20.25 | 0 | 21.18 | 21.18 | 0 | 21.47 | 21.47 | 0 | 22.35 | 22.35 | 0 | |
| 242870 | 20.63 | 20.63 | 0 | 21.12 | 21.12 | 0 | 21.38 | 21.38 | 0 | 21.56 | 21.56 | 0 | 22.36 | 22.36 | 0 | |
| 250005 | 1.71 | 1.71 | 0 | 2.06 | 2.06 | 0 | 2.34 | 2.34 | 0 | 2.48 | 2.48 | 0 | 3.17 | 3.17 | 0 | |
| 250010 | 1.79 | 1.79 | 0 | 2.22 | 2.22 | 0 | 2.51 | 2.51 | 0 | 2.66 | 2.66 | 0 | 3.33 | 3.33 | 0 | |
| 250020 | 3.21 | 3.21 | 0 | 3.79 | 3.79 | 0 | 4.03 | 4.03 | 0 | 4.13 | 4.13 | 0 | 4.49 | 4.49 | 0 | |
| 250030 | 3.58 | 3.58 | 0 | 4.49 | 4.49 | 0 | 4.73 | 4.73 | 0 | 4.83 | 4.83 | 0 | 5.2 | 5.2 | 0 | |
| 250040 | 4.43 | 4.43 | 0 | 4.8 | 4.8 | 0 | 5 | 5 | 0 | 5.09 | 5.09 | 0 | 5.44 | 5.44 | 0 | |
| 250050 | 5.58 | 5.58 | 0 | 5.9 | 5.9 | 0 | 6.04 | 6.04 | 0 | 6.1 | 6.1 | 0 | 6.36 | 6.36 | 0 | |
| 250060 | 6.62 | 6.62 | 0 | 6.87 | 6.87 | 0 | 7.03 | 7.02 | -0.01 | 7.09 | 7.09 | 0 | 7.34 | 7.33 | -0.01 | |
| 250070 | 7.01 | 7.01 | 0 | 7.5 | 7.5 | 0 | 7.85 | 7.83 | -0.02 | 8 | 7.99 | -0.01 | 8.67 | 8.66 | -0.01 | |
| 250080 | 7.17 | 7.17 | 0 | 7.58 | 7.58 | 0 | 7.9 | 7.89 | -0.01 | 8.04 | 8.03 | -0.01 | 8.7 | 8.68 | -0.02 | |
| 250090 | 8.52 | 8.52 | 0 | 8.78 | 8.78 | 0 | 8.9 | 8.9 | 0 | 8.95 | 8.95 | 0 | 9.15 | 9.15 | 0 | |
| 250100 | 8.74 | 8.74 | 0 | 9.05 | 9.05 | 0 | 9.14 | 9.14 | 0 | 9.18 | 9.18 | 0 | 9.36 | 9.36 | 0 | |
| 250110 | 9.51 | 9.51 | 0 | 10.72 | 10.72 | 0 | 11.16 | 11.16 | 0 | 11.37 | 11.37 | 0 | 12.34 | 12.34 | 0 | |
| 250120 | 11.18 | 11.18 | 0 | 11.72 | 11.72 | 0 | 11.87 | 11.87 | 0 | 11.95 | 11.95 | 0 | 12.38 | 12.38 | 0 | |
| 250130 | 12.14 | 12.14 | 0 | 12.72 | 12.72 | 0 | 12.96 | 12.96 | 0 | 13.08 | 13.08 | 0 | 13.59 | 13.59 | 0 | |
| 250140 | 12.38 | 12.38 | 0 | 12.9 | 12.9 | 0 | 13.12 | 13.12 | 0 | 13.23 | 13.23 | 0 | 13.71 | 13.71 | 0 | |
| 250150 | 12.44 | 12.44 | 0 | 13.02 | 13.02 | 0 | 13.28 | 13.28 | 0 | 13.4 | 13.4 | 0 | 13.95 | 13.95 | 0 | |
| 250160 | 12.96 | 12.96 | 0 | 13.28 | 13.28 | 0 | 13.47 | 13.47 | 0 | 13.57 | 13.57 | 0 | 14.01 | 14.01 | 0 | |
| 250170 | 12.98 | 12.98 | 0 | 13.29 | 13.29 | 0 | 13.49 | 13.49 | 0 | 13.58 | 13.58 | 0 | 14.02 | 14.02 | 0 | |
| 250180 | 14.27 | 14.27 | 0 | 15.03 | 15.03 | 0 | 15.43 | 15.43 | 0 | 15.65 | 15.65 | 0 | 16.45 | 16.45 | 0 | |
| 250190 | 14.86 | 14.86 | 0 | 15.87 | 15.87 | 0 | 16.14 | 16.14 | 0 | 16.23 | 16.23 | 0 | 16.64 | 16.64 | 0 | |
| 250200 | 15.49 | 15.49 | 0 | 16.01 | 16.01 | 0 | 16.24 | 16.24 | 0 | 16.32 | 16.32 | 0 | 16.69 | 16.69 | 0 | |
| 250210 | 15.61 | 15.61 | 0 | 16.34 | 16.34 | 0 | 16.55 | 16.5 | | | | | | | | |

Summary of Corrected and Revised Stages for Bridge Culvert

| Node | 2.33YR24HR | | | 25YR24HR | | | 50YR24HR | | | 100YR24HR | | | 500YR24HR | | | Notes |
|--------|--------------------------------|---------------------|-----------------|--------------------------------|---------------------|-----------------|--------------------------------|---------------------|-----------------|--------------------------------|---------------------|-----------------|--------------------------------|---------------------|-----------------|-------|
| | Corrected Effective Stage (ft) | Proposed Stage (ft) | Difference (ft) | Corrected Effective Stage (ft) | Proposed Stage (ft) | Difference (ft) | Corrected Effective Stage (ft) | Proposed Stage (ft) | Difference (ft) | Corrected Effective Stage (ft) | Proposed Stage (ft) | Difference (ft) | Corrected Effective Stage (ft) | Proposed Stage (ft) | Difference (ft) | |
| 250330 | 8.71 | 8.71 | 0 | 8.94 | 8.94 | 0 | 9.03 | 9.03 | 0 | 9.06 | 9.06 | 0 | 9.2 | 9.2 | 0 | |
| 250340 | 8.7 | 8.7 | 0 | 8.87 | 8.87 | 0 | 8.95 | 8.95 | 0 | 8.98 | 8.98 | 0 | 9.14 | 9.14 | 0 | |
| 250400 | 9.81 | 9.81 | 0 | 11.6 | 11.6 | 0 | 11.77 | 11.77 | 0 | 11.85 | 11.85 | 0 | 12.41 | 12.41 | 0 | |
| 250410 | 11.79 | 11.79 | 0 | 12.53 | 12.53 | 0 | 12.86 | 12.86 | 0 | 13 | 13 | 0 | 13.64 | 13.64 | 0 | |
| 250420 | 11.71 | 11.71 | 0 | 12.32 | 12.32 | 0 | 12.53 | 12.53 | 0 | 12.61 | 12.61 | 0 | 12.95 | 12.95 | 0 | |
| 250430 | 11.71 | 11.71 | 0 | 12.31 | 12.31 | 0 | 12.51 | 12.51 | 0 | 12.59 | 12.59 | 0 | 12.92 | 12.92 | 0 | |
| 250440 | 11.42 | 11.42 | 0 | 11.73 | 11.73 | 0 | 11.9 | 11.9 | 0 | 11.98 | 11.98 | 0 | 12.33 | 12.33 | 0 | |
| 250450 | 12.18 | 12.18 | 0 | 12.91 | 12.91 | 0 | 13.21 | 13.21 | 0 | 13.33 | 13.33 | 0 | 13.88 | 13.88 | 0 | |
| 250460 | 11.81 | 11.81 | 0 | 12.55 | 12.55 | 0 | 12.87 | 12.87 | 0 | 13.01 | 13.01 | 0 | 13.65 | 13.65 | 0 | |
| 250470 | 11.82 | 11.82 | 0 | 12.55 | 12.55 | 0 | 12.87 | 12.87 | 0 | 13.02 | 13.02 | 0 | 13.65 | 13.65 | 0 | |
| 250480 | 11.73 | 11.73 | 0 | 12.34 | 12.34 | 0 | 12.56 | 12.56 | 0 | 12.69 | 12.69 | 0 | 13.77 | 13.77 | 0 | |
| 250490 | 12.43 | 12.43 | 0 | 12.96 | 12.96 | 0 | 13.23 | 13.23 | 0 | 13.34 | 13.34 | 0 | 13.81 | 13.81 | 0 | |
| 260010 | 2.05 | 2.05 | 0 | 2.56 | 2.56 | 0 | 2.77 | 2.77 | 0 | 2.87 | 2.87 | 0 | 3.43 | 3.43 | 0 | |
| 260020 | 3.39 | 3.39 | 0 | 4.33 | 4.33 | 0 | 4.65 | 4.65 | 0 | 4.81 | 4.81 | 0 | 5.55 | 5.55 | 0 | |
| 260030 | 3.55 | 3.55 | 0 | 4.52 | 4.52 | 0 | 4.85 | 4.85 | 0 | 5.02 | 5.02 | 0 | 5.78 | 5.78 | 0 | |
| 260040 | 3.6 | 3.6 | 0 | 4.66 | 4.66 | 0 | 5.03 | 5.03 | 0 | 5.22 | 5.22 | 0 | 6.14 | 6.14 | 0 | |
| 260050 | 3.85 | 3.85 | 0 | 5 | 5 | 0 | 5.39 | 5.39 | 0 | 5.59 | 5.59 | 0 | 6.53 | 6.53 | 0 | |
| 260060 | 4.02 | 4.02 | 0 | 5.58 | 5.58 | 0 | 6.2 | 6.2 | 0 | 6.49 | 6.49 | 0 | 7.62 | 7.62 | 0 | |
| 260070 | 4.45 | 4.45 | 0 | 5.84 | 5.84 | 0 | 6.4 | 6.4 | 0 | 6.67 | 6.67 | 0 | 7.78 | 7.78 | 0 | |
| 260080 | 4.56 | 4.56 | 0 | 5.91 | 5.91 | 0 | 6.46 | 6.46 | 0 | 6.73 | 6.73 | 0 | 7.83 | 7.83 | 0 | |
| 260090 | 4.63 | 4.63 | 0 | 6.01 | 6.01 | 0 | 6.55 | 6.55 | 0 | 6.83 | 6.83 | 0 | 7.94 | 7.94 | 0 | |
| 260100 | 6.06 | 6.06 | 0 | 7.57 | 7.57 | 0 | 8.03 | 8.03 | 0 | 8.23 | 8.23 | 0 | 9.05 | 9.05 | 0 | |
| 260110 | 6.5 | 6.5 | 0 | 8.2 | 8.2 | 0 | 8.77 | 8.77 | 0 | 9 | 9 | 0 | 9.81 | 9.81 | 0 | |
| 260120 | 6.55 | 6.55 | 0 | 8.31 | 8.31 | 0 | 8.93 | 8.93 | 0 | 9.17 | 9.17 | 0 | 10 | 10 | 0 | |
| 260130 | 6.57 | 6.57 | 0 | 8.36 | 8.36 | 0 | 8.99 | 8.99 | 0 | 9.24 | 9.24 | 0 | 10.08 | 10.08 | 0 | |
| 260140 | 6.69 | 6.69 | 0 | 8.6 | 8.6 | 0 | 9.28 | 9.28 | 0 | 9.55 | 9.55 | 0 | 10.39 | 10.39 | 0 | |
| 260150 | 6.7 | 6.7 | 0 | 8.62 | 8.62 | 0 | 9.3 | 9.3 | 0 | 9.56 | 9.56 | 0 | 10.41 | 10.41 | 0 | |
| 260160 | 6.74 | 6.74 | 0 | 8.78 | 8.78 | 0 | 9.58 | 9.58 | 0 | 9.91 | 9.91 | 0 | 10.96 | 10.96 | 0 | |
| 260170 | 6.77 | 6.77 | 0 | 8.81 | 8.81 | 0 | 9.61 | 9.61 | 0 | 9.93 | 9.93 | 0 | 10.99 | 10.99 | 0 | |
| 260180 | 9.87 | 9.87 | 0 | 10.62 | 10.62 | 0 | 11.06 | 11.06 | 0 | 11.3 | 11.3 | 0 | 12.07 | 12.07 | 0 | |
| 260190 | 10.02 | 10.02 | 0 | 10.98 | 10.98 | 0 | 11.54 | 11.54 | 0 | 11.79 | 11.79 | 0 | 12.55 | 12.55 | 0 | |
| 260200 | 10.07 | 10.07 | 0 | 11.19 | 11.19 | 0 | 11.89 | 11.89 | 0 | 12.22 | 12.22 | 0 | 13.3 | 13.3 | 0 | |
| 260210 | 10.08 | 10.08 | 0 | 11.21 | 11.21 | 0 | 11.94 | 11.94 | 0 | 12.27 | 12.27 | 0 | 13.34 | 13.34 | 0 | |
| 260220 | 10.15 | 10.15 | 0 | 11.47 | 11.47 | 0 | 12.29 | 12.29 | 0 | 12.65 | 12.65 | 0 | 13.9 | 13.9 | 0 | |
| 260230 | 10.5 | 10.5 | 0 | 12.38 | 12.38 | 0 | 13.2 | 13.2 | 0 | 13.53 | 13.53 | 0 | 14.66 | 14.66 | 0 | |
| 260240 | 10.53 | 10.53 | 0 | 12.58 | 12.58 | 0 | 13.46 | 13.46 | 0 | 13.81 | 13.81 | 0 | 14.99 | 14.99 | 0 | |
| 260250 | 11.16 | 11.16 | 0 | 12.93 | 12.93 | 0 | 13.76 | 13.76 | 0 | 14.1 | 14.1 | 0 | 15.24 | 15.24 | 0 | |
| 260260 | 14.47 | 14.47 | 0 | 15.29 | 15.29 | 0 | 15.55 | 15.55 | 0 | 15.66 | 15.66 | 0 | 16.16 | 16.16 | 0 | |
| 260270 | 14.73 | 14.73 | 0 | 15.66 | 15.66 | 0 | 16.01 | 16.01 | 0 | 16.15 | 16.15 | 0 | 16.7 | 16.7 | 0 | |
| 260280 | 14.8 | 14.8 | 0 | 15.79 | 15.79 | 0 | 16.15 | 16.15 | 0 | 16.29 | 16.29 | 0 | 16.85 | 16.85 | 0 | |
| 260290 | 14.82 | 14.82 | 0 | 15.84 | 15.84 | 0 | 16.22 | 16.22 | 0 | 16.37 | 16.37 | 0 | 16.97 | 16.97 | 0 | |
| 260300 | 14.83 | 14.83 | 0 | 15.86 | 15.86 | 0 | 16.24 | 16.24 | 0 | 16.4 | 16.4 | 0 | 17 | 17 | 0 | |
| 260310 | 16.71 | 16.71 | 0 | 17.85 | 17.85 | 0 | 18.27 | 18.27 | 0 | 18.44 | 18.44 | 0 | 19.01 | 19.01 | 0 | |
| 260320 | 16.76 | 16.76 | 0 | 17.97 | 17.97 | 0 | 18.44 | 18.44 | 0 | 18.63 | 18.63 | 0 | 19.3 | 19.3 | 0 | |
| 260330 | 18.2 | 18.2 | 0 | 19.4 | 19.4 | 0 | 19.85 | 19.85 | 0 | 20.04 | 20.04 | 0 | 20.74 | 20.74 | 0 | |
| 260340 | 18.34 | 18.34 | 0 | 19.78 | 19.78 | 0 | 20.33 | 20.33 | 0 | 20.57 | 20.57 | 0 | 21.51 | 21.51 | 0 | |
| 260350 | 18.89 | 18.89 | 0 | 20.33 | 20.33 | 0 | 20.83 | 20.83 | 0 | 21.05 | 21.05 | 0 | 21.94 | 21.94 | 0 | |
| 260360 | 19.33 | 19.33 | 0 | 20.81 | 20.81 | 0 | 21.31 | 21.31 | 0 | 21.51 | 21.51 | 0 | 22.28 | 22.28 | 0 | |
| 260370 | 19.4 | 19.4 | 0 | 20.98 | 20.98 | 0 | 21.55 | 21.55 | 0 | 21.79 | 21.79 | 0 | 22.76 | 22.76 | 0 | |
| 260380 | 20.22 | 20.22 | 0 | 21.75 | 21.75 | 0 | 22.33 | 22.33 | 0 | 22.56 | 22.56 | 0 | 23.57 | 23.57 | 0 | |
| 260390 | 22.86 | 22.86 | 0 | 24.22 | 24.22 | 0 | 24.86 | 24.86 | 0 | 25.13 | 25.13 | 0 | 26.24 | 26.24 | 0 | |
| 260400 | 22.95 | 22.95 | 0 | 24.32 | 24.32 | 0 | 24.97 | 24.97 | 0 | 25.25 | 25.25 | 0 | 26.49 | 26.49 | 0 | |
| 260410 | 24.61 | 24.61 | 0 | 25.47 | 25.47 | 0 | 26.09 | 26.09 | 0 | 26.32 | 26.32 | 0 | 27.11 | 27.11 | 0 | |
| 260420 | 24.73 | 24.73 | 0 | 25.71 | 25.71 | 0 | 26.44 | 26.44 | 0 | 26.72 | 26.72 | 0 | 27.72 | 27.72 | 0 | |
| 260430 | 25.01 | 25.01 | 0 | 25.97 | 25.97 | 0 | 26.68 | 26.68 | 0 | 26.95 | 26.95 | 0 | 27.91 | 27.91 | 0 | |
| 260440 | 25.36 | 25.36 | 0 | 26.73 | 26.73 | 0 | 27.34 | 27.34 | 0 | 27.7 | 27.7 | 0 | 28.76 | 28.76 | 0 | |
| 260450 | 25.41 | 25.41 | 0 | 26.77 | 26.77 | 0 | 27.37 | 27.37 | 0 | 27.72 | 27.72 | 0 | 28.77 | 28.77 | 0 | |
| 260460 | 25.62 | 25.62 | 0 | 27.2 | 27.2 | 0 | 27.82 | 27.82 | 0 | 28.14 | 28.14 | 0 | 29.21 | 29.21 | 0 | |
| 260470 | 25.78 | 25.78 | 0 | 27.29 | 27.29 | 0 | 27.9 | 27.9 | 0 | 28.19 | 28.19 | 0 | 29.24 | 29.24 | 0 | |
| 260480 | 25.97 | 25.97 | 0 | 27.73 | 27.73 | 0 | 28.44 | 28.44 | 0 | 28.74 | 28.74 | 0 | 29.76 | 29.76 | 0 | |
| 260490 | 26.12 | 26.12 | 0 | 27.81 | 27.81 | 0 | 28.5 | 28.5 | 0 | 28.79 | 28.79 | 0 | 29.79 | 29.79 | 0 | |
| 260500 | 26.13 | 26.13 | 0 | 27.83 | 27.83 | 0 | 28.53 | 28.53 | 0 | 28.82 | 28.82 | 0 | 29.81 | 29.81 | 0 | |
| 260510 | 26.15 | 26.15 | 0 | 27.84 | 27.84 | 0 | 28.54 | 28.54 | 0 | 28.82 | 28.82 | 0 | 29.84 | 29.84 | 0 | |
| 260520 | 26.17 | 26.17 | 0 | 27.85 | 27.85 | 0 | 28.54 | 28.54 | 0 | 28.82 | 28.82 | 0 | 29.84 | 29.84 | 0 | |
| 260530 | 26.17 | 26.17 | 0 | 27.86 | 27.86 | 0 | 28.54 | 28.54 | 0 | 28.83 | 28.83 | 0 | 29.84 | 29.84 | 0 | |
| 260540 | 26.19 | 26.19 | 0 | 27.86 | 27.86 | 0 | 28.55 | 28.55 | 0 | 28.83 | 28.83 | 0 | 29.84 | 29.84 | 0 | |
| 260545 | 26.2 | 26.2 | 0 | 27.86 | 27.86 | 0 | 28.55 | 28.55 | 0 | 28.83 | 28.83 | 0 | 29.84 | 29.84 | 0 | |
| 260550 | 26.26 | 26.26 | 0 | 27.86 | 27.86 | 0 | 28.55 | 28.55 | 0 | 28.83 | 28.83 | 0 | 29.84 | 29.84 | 0 | |
| 260560 | 26.27 | 26.27 | 0 | 27.86 | 27.86 | 0 | 28.55 | 28.55 | 0 | 28.83 | 28.83 | 0 | 29.83 | 29.83 | 0 | |
| 260570 | 26.33 | 26.33 | 0 | 27.86 | 27.86 | 0 | 28.55 | 28.55 | 0 | 28.83 | 28.83 | 0 | 29.82 | 29.82 | 0 | |
| 260580 | 26.36 | 26.36 | 0 | 27.86 | 27.86 | 0 | 28.55 | 28.55 | 0 | 28.83 | 28.83 | 0 | 29.81 | 29.81 | 0 | |
| 260590 | 26.41 | 26.41 | 0 | 27.86 | 27.86 | 0 | 28.55 | 28.55 | 0 | 28.83 | 28.83 | 0 | 29.8 | 29.8 | 0 | |
| 260600 | 26.44 | 26.44 | 0 | 27.86 | 27.86 | 0 | 28.55 | 28.55 | 0 | 28.83 | 28.83 | 0 | 29.79 | 29.79 | 0 | |
| 260610 | 26.46 | 26.46 | 0 | 27.86 | 27.86 | 0 | 28.55 | 28.55 | 0 | 28.83 | 28.83 | 0 | 29.79 | 29.79 | 0 | |
| 260620 | 26.47 | 26.47 | 0 | 27.86 | 27.86 | 0 | 28.55 | 28.55 | 0 | 28.83 | 28.83 | 0 | 29.79 | 29.79 | 0 | |
| 260630 | 26.5 | 26.5 | 0 | 27.95 | 27.95 | 0 | 28.55 | 28.55 | 0 | 28.82 | 28.82 | 0 | 29.78 | 29.78 | 0 | |
| 260640 | 26.53 | 26.53 | 0 | 27.98 | 27.98 | 0 | 28.55 | 28.55 | 0 | 28.82 | 28.82 | 0 | 29.77 | 29.77 | 0 | |
| 260650 | 26.55 | 26.55 | 0 | 28.06 | 28.06 | 0 | 28.58 | 28.58 | 0 | 28.82 | 28.82 | 0 | 29.78 | 29.78 | 0 | |
| 260660 | 26.58 | 26.58 | 0 | 28.15 | 28.15 | 0 | 28.66 | 28.66 | 0 | 28.84 | 28.84 | 0 | 29.78 | 29.78 | 0 | |
| 260670 | 26.59 | 26.59 | 0 | 28.2 | 28.2 | 0 | 28.72 | 28.72 | 0 | 28.9 | 28.9 | 0 | 29.79 | 29.79 | 0 | |
| 260680 | 26.62 | 26.62 | 0 | 28.33 | 28.33 | 0 | 28.83 | 28.83 | 0 | 29.03 | 29.03 | 0 | 29.79 | 29.79 | 0 | |
| 260690 | 27.47 | 27.47 | 0 | 28.71 | 28.71 | 0 | 29.22 | 29.22 | 0 | 29.42 | 29.42 | 0 | 30.19 | 30.19 | 0 | |
| 260700 | 27.57 | 27.57 | 0 | 28.88 | 28.88 | 0 | 29.42 | 29.42 | 0 | 29.6 | 29.6 | 0 | 30.22 | 30.22 | 0 | |
| 260710 | 29.11 | 29.11 | 0 | 29.43 | 29.43 | 0 | 29.58 | 29.58 | 0 | 29.67 | 29.67 | 0 | 30.23 | 30.23 | 0 | |
| 260720 | 28.61 | 28.61 | | | | | | | | | | | | | | |

Summary of Corrected and Revised Stages for Bridge Culvert

| Node | 2.33YR24HR | | | 25YR24HR | | | 50YR24HR | | | 100YR24HR | | | 500YR24HR | | | Notes |
|--------|--------------------------------|---------------------|-----------------|--------------------------------|---------------------|-----------------|--------------------------------|---------------------|-----------------|--------------------------------|---------------------|-----------------|--------------------------------|---------------------|-----------------|-------|
| | Corrected Effective Stage (ft) | Proposed Stage (ft) | Difference (ft) | Corrected Effective Stage (ft) | Proposed Stage (ft) | Difference (ft) | Corrected Effective Stage (ft) | Proposed Stage (ft) | Difference (ft) | Corrected Effective Stage (ft) | Proposed Stage (ft) | Difference (ft) | Corrected Effective Stage (ft) | Proposed Stage (ft) | Difference (ft) | |
| 260830 | 5.15 | 5.15 | 0 | 5.94 | 5.94 | 0 | 6.27 | 6.27 | 0 | 6.49 | 6.49 | 0 | 7.62 | 7.62 | 0 | |
| 260840 | 5.16 | 5.16 | 0 | 5.94 | 5.94 | 0 | 6.27 | 6.27 | 0 | 6.49 | 6.49 | 0 | 7.62 | 7.62 | 0 | |
| 260850 | 4.59 | 4.59 | 0 | 6.36 | 6.36 | 0 | 7.07 | 7.07 | 0 | 7.38 | 7.38 | 0 | 8.58 | 8.58 | 0 | |
| 260860 | 11.97 | 11.97 | 0 | 12.63 | 12.63 | 0 | 13.03 | 13.03 | 0 | 13.24 | 13.24 | 0 | 14.28 | 14.28 | 0 | |
| 260870 | 197.04 | 197.04 | 0 | 197.37 | 197.37 | 0 | 197.56 | 197.56 | 0 | 197.66 | 197.66 | 0 | 198.16 | 198.16 | 0 | |
| 260900 | 6.73 | 6.73 | 0 | 8.65 | 8.65 | 0 | 9.34 | 9.34 | 0 | 9.6 | 9.6 | 0 | 10.43 | 10.43 | 0 | |
| 260910 | 6.8 | 6.8 | 0 | 9 | 9 | 0 | 9.93 | 9.93 | 0 | 10.23 | 10.23 | 0 | 11.16 | 11.16 | 0 | |
| 260920 | 7.77 | 7.77 | 0 | 9.33 | 9.33 | 0 | 10.15 | 10.15 | 0 | 10.43 | 10.43 | 0 | 11.3 | 11.3 | 0 | |
| 260930 | 9.65 | 9.65 | 0 | 10.52 | 10.52 | 0 | 11.04 | 11.04 | 0 | 11.26 | 11.26 | 0 | 11.97 | 11.97 | 0 | |
| 260940 | 9.77 | 9.77 | 0 | 10.88 | 10.88 | 0 | 11.57 | 11.57 | 0 | 11.9 | 11.9 | 0 | 12.99 | 12.99 | 0 | |
| 260950 | 9.83 | 9.83 | 0 | 10.95 | 10.95 | 0 | 11.64 | 11.64 | 0 | 11.96 | 11.96 | 0 | 13.05 | 13.05 | 0 | |
| 260960 | 10.38 | 10.38 | 0 | 11.28 | 11.28 | 0 | 11.79 | 11.79 | 0 | 12.06 | 12.06 | 0 | 13.08 | 13.08 | 0 | |
| 260970 | 10.94 | 10.94 | 0 | 12.71 | 12.71 | 0 | 13.34 | 13.34 | 0 | 13.53 | 13.53 | 0 | 14.28 | 14.28 | 0 | |
| 260975 | 13.49 | 13.49 | 0 | 13.69 | 13.69 | 0 | 13.86 | 13.86 | 0 | 13.94 | 13.94 | 0 | 14.99 | 14.99 | 0 | |
| 260980 | 11.53 | 11.53 | 0 | 12.14 | 12.14 | 0 | 12.31 | 12.31 | 0 | 12.39 | 12.39 | 0 | 12.83 | 12.83 | 0 | |
| 260990 | 11.71 | 11.71 | 0 | 12.12 | 12.12 | 0 | 12.28 | 12.28 | 0 | 12.35 | 12.35 | 0 | 12.85 | 12.85 | 0 | |
| 261000 | 10.37 | 10.37 | 0 | 11.95 | 11.95 | 0 | 12.46 | 12.46 | 0 | 12.8 | 12.8 | 0 | 14.06 | 14.06 | 0 | |
| 261010 | 10.54 | 10.54 | 0 | 12.38 | 12.38 | 0 | 12.93 | 12.93 | 0 | 13.14 | 13.14 | 0 | 14.21 | 14.21 | 0 | |
| 261020 | 10.73 | 10.73 | 0 | 12.76 | 12.76 | 0 | 13.29 | 13.29 | 0 | 13.48 | 13.48 | 0 | 14.55 | 14.55 | 0 | |
| 261030 | 11.31 | 11.31 | 0 | 13.58 | 13.58 | 0 | 14.08 | 14.08 | 0 | 14.41 | 14.41 | 0 | 15.54 | 15.54 | 0 | |
| 261040 | 11.43 | 11.43 | 0 | 13.61 | 13.61 | 0 | 14.12 | 14.12 | 0 | 14.44 | 14.44 | 0 | 15.55 | 15.55 | 0 | |
| 261050 | 11.68 | 11.68 | 0 | 13.86 | 13.86 | 0 | 14.24 | 14.24 | 0 | 14.53 | 14.53 | 0 | 15.58 | 15.58 | 0 | |
| 261060 | 12.06 | 12.06 | 0 | 13.73 | 13.73 | 0 | 14.36 | 14.36 | 0 | 14.61 | 14.61 | 0 | 15.61 | 15.61 | 0 | |
| 261070 | 13.02 | 13.02 | 0 | 13.75 | 13.75 | 0 | 14.36 | 14.36 | 0 | 14.61 | 14.61 | 0 | 15.61 | 15.61 | 0 | |
| 261080 | 13.3 | 13.3 | 0 | 14.93 | 14.93 | 0 | 15.69 | 15.69 | 0 | 16.04 | 16.04 | 0 | 16.86 | 16.86 | 0 | |
| 261090 | 14.39 | 14.39 | 0 | 15.22 | 15.22 | 0 | 15.82 | 15.82 | 0 | 16.13 | 16.13 | 0 | 16.92 | 16.92 | 0 | |
| 261100 | 13.34 | 13.34 | 0 | 14.34 | 14.34 | 0 | 14.64 | 14.64 | 0 | 14.75 | 14.75 | 0 | 15.21 | 15.21 | 0 | |
| 261110 | 14.56 | 14.56 | 0 | 15.15 | 15.15 | 0 | 15.3 | 15.3 | 0 | 15.36 | 15.36 | 0 | 15.61 | 15.61 | 0 | |
| 261120 | 10.39 | 10.39 | 0 | 11.47 | 11.47 | 0 | 12.29 | 12.29 | 0 | 12.65 | 12.65 | 0 | 13.91 | 13.91 | 0 | |
| 261130 | 13 | 13 | 0 | 13.36 | 13.36 | 0 | 13.48 | 13.48 | 0 | 13.53 | 13.53 | 0 | 13.91 | 13.91 | 0 | |
| 261200 | 10.29 | 10.29 | 0 | 11.86 | 11.86 | 0 | 12.53 | 12.53 | 0 | 12.82 | 12.82 | 0 | 13.92 | 13.92 | 0 | |
| 261210 | 12.72 | 12.72 | 0 | 13.2 | 13.2 | 0 | 13.34 | 13.34 | 0 | 13.41 | 13.41 | 0 | 13.92 | 13.92 | 0 | |
| 261220 | 12.77 | 12.77 | 0 | 13.33 | 13.33 | 0 | 13.51 | 13.51 | 0 | 13.59 | 13.59 | 0 | 13.98 | 13.98 | 0 | |
| 261230 | 10.5 | 10.5 | 0 | 12.38 | 12.38 | 0 | 13.2 | 13.2 | 0 | 13.53 | 13.53 | 0 | 14.66 | 14.66 | 0 | |
| 261300 | 11.53 | 11.53 | 0 | 12.92 | 12.92 | 0 | 13.73 | 13.73 | 0 | 14.06 | 14.06 | 0 | 15.18 | 15.18 | 0 | |
| 261310 | 12.23 | 12.23 | 0 | 13.41 | 13.41 | 0 | 13.92 | 13.92 | 0 | 14.11 | 14.11 | 0 | 15.19 | 15.19 | 0 | |
| 261320 | 12.67 | 12.67 | 0 | 13.83 | 13.83 | 0 | 14.35 | 14.35 | 0 | 14.55 | 14.55 | 0 | 15.27 | 15.27 | 0 | |
| 261330 | 14.08 | 14.08 | 0 | 14.83 | 14.83 | 0 | 15.08 | 15.08 | 0 | 15.18 | 15.18 | 0 | 15.59 | 15.59 | 0 | |
| 261400 | 14.73 | 14.73 | 0 | 15.66 | 15.66 | 0 | 16.01 | 16.01 | 0 | 16.15 | 16.15 | 0 | 16.7 | 16.7 | 0 | |
| 261410 | 14.73 | 14.73 | 0 | 15.66 | 15.66 | 0 | 16.01 | 16.01 | 0 | 16.15 | 16.15 | 0 | 16.72 | 16.72 | 0 | |
| 261420 | 14.73 | 14.73 | 0 | 15.68 | 15.68 | 0 | 16.06 | 16.06 | 0 | 16.21 | 16.21 | 0 | 16.82 | 16.82 | 0 | |
| 261430 | 16.11 | 16.11 | 0 | 17.56 | 17.56 | 0 | 18.07 | 18.07 | 0 | 18.26 | 18.26 | 0 | 19.12 | 19.12 | 0 | |
| 261440 | 16.13 | 16.13 | 0 | 17.71 | 17.71 | 0 | 18.31 | 18.31 | 0 | 18.54 | 18.54 | 0 | 19.73 | 19.73 | 0 | |
| 261450 | 19.54 | 19.54 | 0 | 20.23 | 20.23 | 0 | 20.52 | 20.52 | 0 | 20.63 | 20.63 | 0 | 21.05 | 21.05 | 0 | |
| 261460 | 19.54 | 19.54 | 0 | 20.25 | 20.25 | 0 | 20.57 | 20.57 | 0 | 20.72 | 20.72 | 0 | 21.35 | 21.35 | 0 | |
| 261470 | 19.54 | 19.54 | 0 | 20.25 | 20.25 | 0 | 20.58 | 20.58 | 0 | 20.72 | 20.72 | 0 | 21.35 | 21.35 | 0 | |
| 261480 | 21.08 | 21.08 | 0 | 21.79 | 21.79 | 0 | 22.14 | 22.14 | 0 | 22.28 | 22.28 | 0 | 22.9 | 22.9 | 0 | |
| 261490 | 21.08 | 21.08 | 0 | 21.79 | 21.79 | 0 | 22.14 | 22.14 | 0 | 22.28 | 22.28 | 0 | 22.9 | 22.9 | 0 | |
| 261500 | 14.73 | 14.73 | 0 | 15.66 | 15.66 | 0 | 16.01 | 16.01 | 0 | 16.15 | 16.15 | 0 | 16.72 | 16.72 | 0 | |
| 261510 | 16.26 | 16.26 | 0 | 16.82 | 16.82 | 0 | 17.07 | 17.07 | 0 | 17.22 | 17.22 | 0 | 17.86 | 17.86 | 0 | |
| 261520 | 16.6 | 16.6 | 0 | 16.87 | 16.87 | 0 | 17.09 | 17.09 | 0 | 17.23 | 17.23 | 0 | 17.86 | 17.86 | 0 | |
| 261530 | 17.2 | 17.2 | 0 | 17.89 | 17.89 | 0 | 18.11 | 18.11 | 0 | 18.17 | 18.17 | 0 | 18.45 | 18.45 | 0 | |
| 261540 | 16.11 | 16.11 | 0 | 17.53 | 17.53 | 0 | 18.06 | 18.06 | 0 | 18.3 | 18.3 | 0 | 19.18 | 19.18 | 0 | |
| 261550 | 16.55 | 16.55 | 0 | 17.53 | 17.53 | 0 | 18.07 | 18.07 | 0 | 18.3 | 18.3 | 0 | 19.18 | 19.18 | 0 | |
| 261560 | 19.96 | 19.96 | 0 | 20.31 | 20.31 | 0 | 20.46 | 20.46 | 0 | 20.54 | 20.54 | 0 | 20.95 | 20.95 | 0 | |
| 261570 | 19.8 | 19.8 | 0 | 20.11 | 20.11 | 0 | 20.24 | 20.24 | 0 | 20.3 | 20.3 | 0 | 20.63 | 20.63 | 0 | |
| 261600 | 14.74 | 14.74 | 0 | 15.73 | 15.73 | 0 | 16.11 | 16.11 | 0 | 16.26 | 16.26 | 0 | 16.87 | 16.87 | 0 | |
| 261610 | 14.74 | 14.74 | 0 | 15.81 | 15.81 | 0 | 16.14 | 16.14 | 0 | 16.29 | 16.29 | 0 | 16.89 | 16.89 | 0 | |
| 261620 | 14.74 | 14.74 | 0 | 15.88 | 15.88 | 0 | 16.26 | 16.26 | 0 | 16.42 | 16.42 | 0 | 17.08 | 17.08 | 0 | |
| 261630 | 14.74 | 14.74 | 0 | 16.17 | 16.17 | 0 | 16.6 | 16.6 | 0 | 16.75 | 16.75 | 0 | 17.36 | 17.36 | 0 | |
| 261640 | 14.75 | 14.75 | 0 | 16.59 | 16.59 | 0 | 17.01 | 17.01 | 0 | 17.16 | 17.16 | 0 | 17.72 | 17.72 | 0 | |
| 261650 | 14.75 | 14.75 | 0 | 16.68 | 16.68 | 0 | 17.08 | 17.08 | 0 | 17.23 | 17.23 | 0 | 17.78 | 17.78 | 0 | |
| 261660 | 18.91 | 18.91 | 0 | 19.18 | 19.18 | 0 | 19.32 | 19.32 | 0 | 19.38 | 19.38 | 0 | 19.67 | 19.67 | 0 | |
| 261670 | 16.76 | 16.76 | 0 | 17.3 | 17.3 | 0 | 17.87 | 17.87 | 0 | 18.06 | 18.06 | 0 | 18.79 | 18.79 | 0 | |
| 261680 | 17.18 | 17.18 | 0 | 17.8 | 17.8 | 0 | 18.05 | 18.05 | 0 | 18.18 | 18.18 | 0 | 18.82 | 18.82 | 0 | |
| 261700 | 14.73 | 14.73 | 0 | 15.81 | 15.81 | 0 | 16.4 | 16.4 | 0 | 16.66 | 16.66 | 0 | 17.79 | 17.79 | 0 | |
| 261710 | 14.74 | 14.74 | 0 | 15.97 | 15.97 | 0 | 16.41 | 16.41 | 0 | 16.67 | 16.67 | 0 | 17.79 | 17.79 | 0 | |
| 261720 | 16.02 | 16.02 | 0 | 16.14 | 16.14 | 0 | 16.41 | 16.41 | 0 | 16.67 | 16.67 | 0 | 17.79 | 17.79 | 0 | |
| 261730 | 16.02 | 16.02 | 0 | 16.52 | 16.52 | 0 | 17.08 | 17.08 | 0 | 17.94 | 17.94 | 0 | 19.56 | 19.56 | 0 | |
| 261740 | 17 | 17 | 0 | 18.05 | 18.05 | 0 | 18.55 | 18.55 | 0 | 18.74 | 18.74 | 0 | 19.58 | 19.58 | 0 | |
| 261750 | 16.35 | 16.35 | 0 | 16.84 | 16.84 | 0 | 17.28 | 17.28 | 0 | 17.52 | 17.52 | 0 | 18.71 | 18.71 | 0 | |
| 261760 | 16.02 | 16.02 | 0 | 16.14 | 16.14 | 0 | 16.41 | 16.41 | 0 | 16.67 | 16.67 | 0 | 17.81 | 17.81 | 0 | |
| 261796 | 14.82 | 14.82 | 0 | 15.84 | 15.84 | 0 | 16.22 | 16.22 | 0 | 16.37 | 16.37 | 0 | 17.15 | 17.15 | 0 | |
| 261798 | 16.57 | 16.57 | 0 | 16.88 | 16.88 | 0 | 17.07 | 17.07 | 0 | 17.16 | 17.16 | 0 | 17.54 | 17.54 | 0 | |
| 261800 | 16.57 | 16.57 | 0 | 16.91 | 16.91 | 0 | 17.29 | 17.29 | 0 | 17.49 | 17.49 | 0 | 18.32 | 18.32 | 0 | |
| 261806 | 14.82 | 14.82 | 0 | 15.84 | 15.84 | 0 | 16.22 | 16.22 | 0 | 16.38 | 16.38 | 0 | 17.29 | 17.29 | 0 | |
| 261808 | 16.24 | 16.24 | 0 | 16.74 | 16.74 | 0 | 16.98 | 16.98 | 0 | 17.09 | 17.09 | 0 | 17.52 | 17.52 | 0 | |
| 261810 | 16.24 | 16.24 | 0 | 16.76 | 16.76 | 0 | 17.2 | 17.2 | 0 | 17.41 | 17.41 | 0 | 18.14 | 18.14 | 0 | |
| 261820 | 14.84 | 14.84 | 0 | 15.91 | 15.91 | 0 | 16.32 | 16.32 | 0 | 16.5 | 16.5 | 0 | 17.28 | 17.28 | 0 | |
| 261830 | 17.6 | 17.6 | 0 | 17.92 | 17.92 | 0 | 18.08 | 18.08 | 0 | 18.16 | 18.16 | 0 | 18.55 | 18.55 | 0 | |
| 261840 | 16.83 | 16.83 | 0 | 17.98 | 17.98 | 0 | 18.47 | 18.47 | 0 | 18.68 | 18.68 | 0 | 19.65 | 19.65 | 0 | |
| 261850 | 17.02 | 17.02 | 0 | 18.04 | 18.04 | 0 | 18.53 | 18.53 | 0 | 18.75 | 18.75 | 0 | 19.66 | 19.66 | 0 | |
| 261860 | 17.03 | 17.03 | 0 | 18.04 | 18.04 | 0 | 18.53 | 18.53 | 0 | 18.75 | 18.75 | 0 | 19.86 | 19.86 | 0 | |
| 2618 | | | | | | | | | | | | | | | | |

Summary of Corrected and Revised Stages for Bridge Culvert

| Node | 2.33YR24HR | | | 25YR24HR | | | 50YR24HR | | | 100YR24HR | | | 500YR24HR | | | Notes |
|--------|--------------------------------|---------------------|-----------------|--------------------------------|---------------------|-----------------|--------------------------------|---------------------|-----------------|--------------------------------|---------------------|-----------------|--------------------------------|---------------------|-----------------|-------|
| | Corrected Effective Stage (ft) | Proposed Stage (ft) | Difference (ft) | Corrected Effective Stage (ft) | Proposed Stage (ft) | Difference (ft) | Corrected Effective Stage (ft) | Proposed Stage (ft) | Difference (ft) | Corrected Effective Stage (ft) | Proposed Stage (ft) | Difference (ft) | Corrected Effective Stage (ft) | Proposed Stage (ft) | Difference (ft) | |
| 261920 | 16.61 | 16.61 | 0 | 17.89 | 17.89 | 0 | 18.17 | 18.17 | 0 | 18.26 | 18.26 | 0 | 18.75 | 18.75 | 0 | |
| 261930 | 16.95 | 16.95 | 0 | 17.89 | 17.89 | 0 | 18.16 | 18.16 | 0 | 18.24 | 18.24 | 0 | 18.74 | 18.74 | 0 | |
| 261940 | 16.98 | 16.98 | 0 | 17.89 | 17.89 | 0 | 18.13 | 18.13 | 0 | 18.2 | 18.2 | 0 | 18.56 | 18.56 | 0 | |
| 261950 | 16.6 | 16.6 | 0 | 17.55 | 17.55 | 0 | 17.84 | 17.84 | 0 | 17.98 | 17.98 | 0 | 18.65 | 18.65 | 0 | |
| 261960 | 16.55 | 16.55 | 0 | 17.48 | 17.48 | 0 | 17.84 | 17.84 | 0 | 17.98 | 17.98 | 0 | 18.65 | 18.65 | 0 | |
| 261970 | 16.63 | 16.63 | 0 | 17.48 | 17.48 | 0 | 17.84 | 17.84 | 0 | 17.98 | 17.98 | 0 | 18.65 | 18.65 | 0 | |
| 261980 | 16.6 | 16.6 | 0 | 17.94 | 17.94 | 0 | 18.4 | 18.4 | 0 | 18.59 | 18.59 | 0 | 19.25 | 19.25 | 0 | |
| 261990 | 19.21 | 19.21 | 0 | 19.34 | 19.34 | 0 | 19.42 | 19.42 | 0 | 19.45 | 19.45 | 0 | 19.62 | 19.62 | 0 | |
| 262000 | 19.53 | 19.53 | 0 | 20.33 | 20.33 | 0 | 20.83 | 20.83 | 0 | 21.04 | 21.04 | 0 | 21.92 | 21.92 | 0 | |
| 262010 | 20.74 | 20.74 | 0 | 21.13 | 21.13 | 0 | 21.31 | 21.31 | 0 | 21.39 | 21.39 | 0 | 21.86 | 21.86 | 0 | |
| 262020 | 21.81 | 21.81 | 0 | 22.66 | 22.66 | 0 | 22.97 | 22.97 | 0 | 23.08 | 23.08 | 0 | 23.58 | 23.58 | 0 | |
| 262030 | 18.97 | 18.97 | 0 | 20.75 | 20.75 | 0 | 21.7 | 21.7 | 0 | 22.16 | 22.16 | 0 | 23.57 | 23.57 | 0 | |
| 262040 | 22.78 | 22.78 | 0 | 24.45 | 24.45 | 0 | 25.19 | 25.19 | 0 | 25.5 | 25.5 | 0 | 26.81 | 26.81 | 0 | |
| 262050 | 26.04 | 26.04 | 0 | 26.85 | 26.85 | 0 | 27.22 | 27.22 | 0 | 27.37 | 27.37 | 0 | 28.06 | 28.06 | 0 | |
| 262070 | 26.95 | 26.95 | 0 | 27.51 | 27.51 | 0 | 27.78 | 27.78 | 0 | 27.91 | 27.91 | 0 | 28.51 | 28.51 | 0 | |
| 262080 | 28.71 | 28.71 | 0 | 28.92 | 28.92 | 0 | 29.02 | 29.02 | 0 | 29.07 | 29.07 | 0 | 29.3 | 29.3 | 0 | |
| 262100 | 20.91 | 20.91 | 0 | 21.25 | 21.25 | 0 | 21.41 | 21.41 | 0 | 21.49 | 21.49 | 0 | 21.9 | 21.9 | 0 | |
| 262110 | 22.48 | 22.48 | 0 | 25.32 | 25.32 | 0 | 26.33 | 26.33 | 0 | 26.71 | 26.71 | 0 | 28.28 | 28.28 | 0 | |
| 262120 | 22.88 | 22.88 | 0 | 23.46 | 23.46 | 0 | 23.68 | 23.68 | 0 | 23.77 | 23.77 | 0 | 24.18 | 24.18 | 0 | |
| 262130 | 20.27 | 20.27 | 0 | 21.89 | 21.89 | 0 | 22.56 | 22.56 | 0 | 23.04 | 23.04 | 0 | 25.11 | 25.11 | 0 | |
| 262140 | 23.53 | 23.53 | 0 | 24.4 | 24.4 | 0 | 24.83 | 24.83 | 0 | 24.97 | 24.97 | 0 | 25.44 | 25.44 | 0 | |
| 262150 | 20.22 | 20.22 | 0 | 21.78 | 21.78 | 0 | 22.39 | 22.39 | 0 | 22.64 | 22.64 | 0 | 24.23 | 24.23 | 0 | |
| 262160 | 20.26 | 20.26 | 0 | 22.11 | 22.11 | 0 | 23.05 | 23.05 | 0 | 23.46 | 23.46 | 0 | 24.27 | 24.27 | 0 | |
| 262170 | 23.38 | 23.38 | 0 | 23.67 | 23.67 | 0 | 23.8 | 23.8 | 0 | 23.86 | 23.86 | 0 | 24.28 | 24.28 | 0 | |
| 262180 | 23.4 | 23.4 | 0 | 23.67 | 23.67 | 0 | 23.81 | 23.81 | 0 | 23.86 | 23.86 | 0 | 24.28 | 24.28 | 0 | |
| 262190 | 25.27 | 25.27 | 0 | 25.88 | 25.88 | 0 | 29.1 | 29.1 | 0 | 29.5 | 29.5 | 0 | 30.83 | 30.83 | 0 | |
| 262200 | 27.07 | 27.07 | 0 | 28.65 | 28.65 | 0 | 29.24 | 29.24 | 0 | 29.56 | 29.56 | 0 | 30.83 | 30.83 | 0 | |
| 262300 | 26.24 | 26.24 | 0 | 26.76 | 26.76 | 0 | 27.02 | 27.02 | 0 | 27.14 | 27.14 | 0 | 27.76 | 27.76 | 0 | |
| 262310 | 26.24 | 26.24 | 0 | 26.76 | 26.76 | 0 | 27.08 | 27.08 | 0 | 27.25 | 27.25 | 0 | 28.09 | 28.09 | 0 | |
| 262320 | 25.62 | 25.62 | 0 | 27.2 | 27.2 | 0 | 27.78 | 27.78 | 0 | 28.04 | 28.04 | 0 | 28.81 | 28.81 | 0 | |
| 262330 | 26.13 | 26.13 | 0 | 26.8 | 26.8 | 0 | 27.22 | 27.22 | 0 | 27.45 | 27.45 | 0 | 28.54 | 28.54 | 0 | |
| 262340 | 26.13 | 26.13 | 0 | 26.83 | 26.83 | 0 | 27.25 | 27.25 | 0 | 27.47 | 27.47 | 0 | 28.55 | 28.55 | 0 | |
| 262350 | 21.11 | 21.11 | 0 | 25.97 | 25.97 | 0 | 26.68 | 26.68 | 0 | 26.95 | 26.95 | 0 | 27.91 | 27.91 | 0 | |
| 262400 | 29.14 | 29.14 | 0 | 30.8 | 30.8 | 0 | 31.27 | 31.27 | 0 | 31.46 | 31.46 | 0 | 32.23 | 32.23 | 0 | |
| 262410 | 29.14 | 29.14 | 0 | 30.79 | 30.79 | 0 | 31.26 | 31.26 | 0 | 31.45 | 31.45 | 0 | 32.23 | 32.23 | 0 | |
| 262420 | 29.39 | 29.39 | 0 | 31.07 | 31.07 | 0 | 31.68 | 31.68 | 0 | 31.94 | 31.94 | 0 | 32.91 | 32.91 | 0 | |
| 262430 | 30.43 | 30.43 | 0 | 31.73 | 31.73 | 0 | 32.23 | 32.23 | 0 | 32.42 | 32.42 | 0 | 33.43 | 33.43 | 0 | |
| 262440 | 30.45 | 30.45 | 0 | 31.79 | 31.79 | 0 | 32.32 | 32.32 | 0 | 32.54 | 32.54 | 0 | 33.6 | 33.6 | 0 | |
| 262450 | 30.6 | 30.6 | 0 | 31.92 | 31.92 | 0 | 32.46 | 32.46 | 0 | 32.68 | 32.68 | 0 | 33.71 | 33.71 | 0 | |
| 262460 | 30.62 | 30.62 | 0 | 32 | 32 | 0 | 32.59 | 32.59 | 0 | 32.83 | 32.83 | 0 | 33.95 | 33.95 | 0 | |
| 262470 | 31.9 | 31.9 | 0 | 32.98 | 32.98 | 0 | 33.26 | 33.26 | 0 | 33.4 | 33.4 | 0 | 34.26 | 34.26 | 0 | |
| 262480 | 32.98 | 32.98 | 0 | 33.72 | 33.72 | 0 | 34.01 | 34.01 | 0 | 34.16 | 34.16 | 0 | 34.82 | 34.82 | 0 | |
| 262490 | 33.03 | 33.03 | 0 | 33.96 | 33.96 | 0 | 34.31 | 34.31 | 0 | 34.44 | 34.44 | 0 | 35.09 | 35.09 | 0 | |
| 262500 | 37.5 | 37.5 | 0 | 38.69 | 38.69 | 0 | 39.18 | 39.18 | 0 | 39.4 | 39.4 | 0 | 40.52 | 40.52 | 0 | |
| 262510 | 38.9 | 38.9 | 0 | 39.6 | 39.6 | 0 | 39.96 | 39.96 | 0 | 40.12 | 40.12 | 0 | 40.84 | 40.84 | 0 | |
| 262520 | 39.2 | 39.2 | 0 | 40.28 | 40.28 | 0 | 40.55 | 40.55 | 0 | 40.66 | 40.66 | 0 | 41.08 | 41.08 | 0 | |
| 262530 | 39.64 | 39.64 | 0 | 40.43 | 40.43 | 0 | 40.63 | 40.63 | 0 | 40.72 | 40.72 | 0 | 41.08 | 41.08 | 0 | |
| 262540 | 41.01 | 41.01 | 0 | 41.41 | 41.41 | 0 | 41.58 | 41.58 | 0 | 41.66 | 41.66 | 0 | 41.93 | 41.93 | 0 | |
| 262550 | 41.12 | 41.12 | 0 | 41.65 | 41.65 | 0 | 41.89 | 41.89 | 0 | 42 | 42 | 0 | 42.45 | 42.45 | 0 | |
| 262560 | 41.39 | 41.39 | 0 | 41.9 | 41.9 | 0 | 42.12 | 42.12 | 0 | 42.18 | 42.18 | 0 | 42.45 | 42.45 | 0 | |
| 262570 | 41.48 | 41.48 | 0 | 42.18 | 42.18 | 0 | 42.46 | 42.46 | 0 | 42.59 | 42.59 | 0 | 43.05 | 43.05 | 0 | |
| 262580 | 42.06 | 42.06 | 0 | 42.33 | 42.33 | 0 | 42.52 | 42.52 | 0 | 42.63 | 42.63 | 0 | 43.07 | 43.07 | 0 | |
| 262590 | 41.63 | 41.63 | 0 | 42.14 | 42.14 | 0 | 42.5 | 42.5 | 0 | 42.67 | 42.67 | 0 | 43.27 | 43.27 | 0 | |
| 262600 | 29.38 | 29.38 | 0 | 31.07 | 31.07 | 0 | 31.68 | 31.68 | 0 | 31.94 | 31.94 | 0 | 32.91 | 32.91 | 0 | |
| 262610 | 29.38 | 29.38 | 0 | 31.07 | 31.07 | 0 | 31.68 | 31.68 | 0 | 31.94 | 31.94 | 0 | 32.91 | 32.91 | 0 | |
| 262620 | 29.38 | 29.38 | 0 | 31.07 | 31.07 | 0 | 31.68 | 31.68 | 0 | 31.94 | 31.94 | 0 | 32.91 | 32.91 | 0 | |
| 262695 | 43.1 | 43.1 | 0 | 43.34 | 43.34 | 0 | 43.45 | 43.45 | 0 | 43.51 | 43.51 | 0 | 43.77 | 43.77 | 0 | |
| 262700 | 31 | 31 | 0 | 32.09 | 32.09 | 0 | 32.6 | 32.6 | 0 | 32.84 | 32.84 | 0 | 33.95 | 33.95 | 0 | |
| 262710 | 31.01 | 31.01 | 0 | 32.09 | 32.09 | 0 | 32.6 | 32.6 | 0 | 32.84 | 32.84 | 0 | 33.95 | 33.95 | 0 | |
| 262720 | 31.61 | 31.61 | 0 | 32.54 | 32.54 | 0 | 32.76 | 32.76 | 0 | 32.85 | 32.85 | 0 | 33.31 | 33.31 | 0 | |
| 262730 | 31.01 | 31.01 | 0 | 32.09 | 32.09 | 0 | 32.6 | 32.6 | 0 | 32.84 | 32.84 | 0 | 33.95 | 33.95 | 0 | |
| 262740 | 31.02 | 31.02 | 0 | 32.09 | 32.09 | 0 | 32.6 | 32.6 | 0 | 32.84 | 32.84 | 0 | 33.95 | 33.95 | 0 | |
| 262750 | 30.73 | 30.73 | 0 | 32 | 32 | 0 | 32.6 | 32.6 | 0 | 32.85 | 32.85 | 0 | 33.95 | 33.95 | 0 | |
| 262800 | 30.64 | 30.64 | 0 | 32 | 32 | 0 | 32.6 | 32.6 | 0 | 32.87 | 32.87 | 0 | 34.06 | 34.06 | 0 | |
| 262810 | 30.65 | 30.65 | 0 | 32 | 32 | 0 | 32.6 | 32.6 | 0 | 32.87 | 32.87 | 0 | 34.03 | 34.03 | 0 | |
| 262820 | 30.98 | 30.98 | 0 | 31.71 | 31.71 | 0 | 32.09 | 32.09 | 0 | 32.27 | 32.27 | 0 | 33.01 | 33.01 | 0 | |
| 262830 | 31.06 | 31.06 | 0 | 31.56 | 31.56 | 0 | 31.72 | 31.72 | 0 | 31.79 | 31.79 | 0 | 32.08 | 32.08 | 0 | |
| 262840 | 31.29 | 31.29 | 0 | 31.57 | 31.57 | 0 | 31.71 | 31.71 | 0 | 31.78 | 31.78 | 0 | 32.07 | 32.07 | 0 | |
| 262850 | 30.65 | 30.65 | 0 | 32 | 32 | 0 | 32.6 | 32.6 | 0 | 32.85 | 32.85 | 0 | 33.95 | 33.95 | 0 | |
| 262860 | 30.81 | 30.81 | 0 | 32 | 32 | 0 | 32.6 | 32.6 | 0 | 32.85 | 32.85 | 0 | 33.95 | 33.95 | 0 | |
| 262900 | 30.66 | 30.66 | 0 | 32 | 32 | 0 | 32.59 | 32.59 | 0 | 32.84 | 32.84 | 0 | 33.95 | 33.95 | 0 | |
| 262910 | 31.6 | 31.6 | 0 | 32.27 | 32.27 | 0 | 32.74 | 32.74 | 0 | 32.96 | 32.96 | 0 | 34.03 | 34.03 | 0 | |
| 262920 | 33.33 | 33.33 | 0 | 34.82 | 34.82 | 0 | 35.54 | 35.54 | 0 | 35.84 | 35.84 | 0 | 37.08 | 37.08 | 0 | |
| 262930 | 34.35 | 34.35 | 0 | 35.39 | 35.39 | 0 | 35.95 | 35.95 | 0 | 36.2 | 36.2 | 0 | 37.23 | 37.23 | 0 | |
| 262940 | 34.49 | 34.49 | 0 | 35.66 | 35.66 | 0 | 36.32 | 36.32 | 0 | 36.64 | 36.64 | 0 | 37.88 | 37.88 | 0 | |
| 262950 | 36.29 | 36.29 | 0 | 37.33 | 37.33 | 0 | 37.79 | 37.79 | 0 | 37.99 | 37.99 | 0 | 38.74 | 38.74 | 0 | |
| 262960 | 34.26 | 34.26 | 0 | 34.75 | 34.75 | 0 | 34.98 | 34.98 | 0 | 35.09 | 35.09 | 0 | 35.54 | 35.54 | 0 | |
| 262970 | 32.37 | 32.37 | 0 | 32.37 | 32.37 | 0 | 32.74 | 32.74 | 0 | 32.96 | 32.96 | 0 | 34.03 | 34.03 | 0 | |
| 262980 | 34.12 | 34.12 | 0 | 34.12 | 34.12 | 0 | 34.12 | 34.12 | 0 | 34.12 | 34.12 | 0 | 34.13 | 34.13 | 0 | |
| 263000 | 31.91 | 31.91 | 0 | 33.14 | 33.14 | 0 | 33.57 | 33.57 | 0 | 33.78 | 33.78 | 0 | 34.54 | 34.54 | 0 | |
| 263010 | 32.05 | 32.05 | 0 | 33.3 | 33.3 | 0 | 33.7 | 33.7 | 0 | 33.85 | 33.85 | 0 | 34.55 | 34.55 | 0 | |
| 263020 | 33.03 | 33.03 | 0 | 33.96 | 33.96 | 0 | 34.31 | 34.31 | 0 | 34.45 | 34.45 | 0 | 35.1 | 35.1 | 0 | |
| 263030 | 32.85 | 32.85 | 0 | 33.96 | 33.96 | 0 | 34.31 | 34.31 | 0 | 34.45 | 34.45 | 0 | 35.1 | 35.1 | 0 | |
| 263040 | 41.12 | 41.12 | | | | | | | | | | | | | | |

Summary of Corrected and Revised Stages for Bridge Culvert

| Node | 2.33YR24HR | | | 25YR24HR | | | 50YR24HR | | | 100YR24HR | | | 500YR24HR | | | Notes |
|--------|--------------------------------|---------------------|-----------------|--------------------------------|---------------------|-----------------|--------------------------------|---------------------|-----------------|--------------------------------|---------------------|-----------------|--------------------------------|---------------------|-----------------|-------|
| | Corrected Effective Stage (ft) | Proposed Stage (ft) | Difference (ft) | Corrected Effective Stage (ft) | Proposed Stage (ft) | Difference (ft) | Corrected Effective Stage (ft) | Proposed Stage (ft) | Difference (ft) | Corrected Effective Stage (ft) | Proposed Stage (ft) | Difference (ft) | Corrected Effective Stage (ft) | Proposed Stage (ft) | Difference (ft) | |
| 263110 | 25.77 | 25.77 | 0 | 25.77 | 25.77 | 0 | 26.41 | 26.41 | 0 | 26.74 | 26.74 | 0 | 29.42 | 29.42 | 0 | |
| 263120 | 25.7 | 25.7 | 0 | 26.21 | 26.21 | 0 | 26.68 | 26.68 | 0 | 26.94 | 26.94 | 0 | 29.42 | 29.42 | 0 | |
| 263130 | 26.33 | 26.33 | 0 | 28.53 | 28.53 | 0 | 29.44 | 29.44 | 0 | 29.81 | 29.81 | 0 | 31.01 | 31.01 | 0 | |
| 263140 | 26.51 | 26.51 | 0 | 29.13 | 29.13 | 0 | 30.14 | 30.14 | 0 | 30.5 | 30.5 | 0 | 31.8 | 31.8 | 0 | |
| 263150 | 25.78 | 25.78 | 0 | 27.17 | 27.17 | 0 | 28.01 | 28.01 | 0 | 28.38 | 28.38 | 0 | 29.79 | 29.79 | 0 | |
| 263160 | 27.65 | 27.65 | 0 | 28.5 | 28.5 | 0 | 28.88 | 28.88 | 0 | 29.06 | 29.06 | 0 | 29.82 | 29.82 | 0 | |
| 263170 | 28.42 | 28.42 | 0 | 28.84 | 28.84 | 0 | 29.08 | 29.08 | 0 | 29.2 | 29.2 | 0 | 29.84 | 29.84 | 0 | |
| 263180 | 26.22 | 26.22 | 0 | 27.89 | 27.89 | 0 | 28.58 | 28.58 | 0 | 28.89 | 28.89 | 0 | 30.03 | 30.03 | 0 | |
| 263190 | 26.22 | 26.22 | 0 | 27.89 | 27.89 | 0 | 28.58 | 28.58 | 0 | 28.89 | 28.89 | 0 | 30.04 | 30.04 | 0 | |
| 263200 | 29.35 | 29.35 | 0 | 31.01 | 31.01 | 0 | 31.52 | 31.52 | 0 | 31.74 | 31.74 | 0 | 32.52 | 32.52 | 0 | |
| 263210 | 29.35 | 29.35 | 0 | 31.02 | 31.02 | 0 | 31.53 | 31.53 | 0 | 31.75 | 31.75 | 0 | 32.58 | 32.58 | 0 | |
| 263220 | 29.36 | 29.36 | 0 | 31.05 | 31.05 | 0 | 31.61 | 31.61 | 0 | 31.86 | 31.86 | 0 | 32.94 | 32.94 | 0 | |
| 263230 | 32.31 | 32.31 | 0 | 33.03 | 33.03 | 0 | 33.3 | 33.3 | 0 | 33.42 | 33.42 | 0 | 33.96 | 33.96 | 0 | |
| 263240 | 32.9 | 32.9 | 0 | 34.04 | 34.04 | 0 | 34.45 | 34.45 | 0 | 34.61 | 34.61 | 0 | 35.22 | 35.22 | 0 | |
| 263250 | 33.03 | 33.03 | 0 | 34.24 | 34.24 | 0 | 34.7 | 34.7 | 0 | 34.88 | 34.88 | 0 | 35.61 | 35.61 | 0 | |
| 263260 | 33.77 | 33.77 | 0 | 34.78 | 34.78 | 0 | 35.23 | 35.23 | 0 | 35.4 | 35.4 | 0 | 36.04 | 36.04 | 0 | |
| 263270 | 34.6 | 34.6 | 0 | 35.53 | 35.53 | 0 | 35.95 | 35.95 | 0 | 36.13 | 36.13 | 0 | 36.87 | 36.87 | 0 | |
| 263280 | 35.75 | 35.75 | 0 | 37.29 | 37.29 | 0 | 37.87 | 37.87 | 0 | 38.15 | 38.15 | 0 | 39.05 | 39.05 | 0 | |
| 263290 | 38.22 | 38.22 | 0 | 38.81 | 38.81 | 0 | 39.15 | 39.15 | 0 | 39.31 | 39.31 | 0 | 39.92 | 39.92 | 0 | |
| 263300 | 41.23 | 41.23 | 0 | 42.13 | 42.13 | 0 | 42.49 | 42.49 | 0 | 42.67 | 42.67 | 0 | 43.27 | 43.27 | 0 | |
| 263310 | 41.27 | 41.27 | 0 | 42.14 | 42.14 | 0 | 42.5 | 42.5 | 0 | 42.67 | 42.67 | 0 | 43.27 | 43.27 | 0 | |
| 263320 | 42.23 | 42.23 | 0 | 43.01 | 43.01 | 0 | 43.23 | 43.23 | 0 | 43.31 | 43.31 | 0 | 43.66 | 43.66 | 0 | |
| 263330 | 42.25 | 42.25 | 0 | 43.02 | 43.02 | 0 | 43.23 | 43.23 | 0 | 43.31 | 43.31 | 0 | 43.67 | 43.67 | 0 | |
| 263400 | 29.35 | 29.35 | 0 | 31.02 | 31.02 | 0 | 31.53 | 31.53 | 0 | 31.75 | 31.75 | 0 | 32.52 | 32.52 | 0 | |
| 263410 | 29.35 | 29.35 | 0 | 31.03 | 31.03 | 0 | 31.55 | 31.55 | 0 | 31.77 | 31.77 | 0 | 32.52 | 32.52 | 0 | |
| 263420 | 29.37 | 29.37 | 0 | 31.04 | 31.04 | 0 | 31.56 | 31.56 | 0 | 31.78 | 31.78 | 0 | 32.53 | 32.53 | 0 | |
| 263430 | 29.37 | 29.37 | 0 | 31.04 | 31.04 | 0 | 31.56 | 31.56 | 0 | 31.78 | 31.78 | 0 | 32.54 | 32.54 | 0 | |
| 263440 | 29.37 | 29.37 | 0 | 31.04 | 31.04 | 0 | 31.56 | 31.56 | 0 | 31.78 | 31.78 | 0 | 32.55 | 32.55 | 0 | |
| 263450 | 29.36 | 29.36 | 0 | 31.04 | 31.04 | 0 | 31.56 | 31.56 | 0 | 31.79 | 31.79 | 0 | 32.59 | 32.59 | 0 | |
| 263460 | 30.35 | 30.35 | 0 | 31.13 | 31.13 | 0 | 31.62 | 31.62 | 0 | 31.83 | 31.83 | 0 | 32.64 | 32.64 | 0 | |
| 263470 | 30.35 | 30.35 | 0 | 31.16 | 31.16 | 0 | 31.67 | 31.67 | 0 | 31.9 | 31.9 | 0 | 32.82 | 32.82 | 0 | |
| 263480 | 30.86 | 30.86 | 0 | 31.69 | 31.69 | 0 | 32.06 | 32.06 | 0 | 32.23 | 32.23 | 0 | 33.05 | 33.05 | 0 | |
| 263490 | 32.68 | 32.68 | 0 | 33.68 | 33.68 | 0 | 34.03 | 34.03 | 0 | 34.19 | 34.19 | 0 | 34.62 | 34.62 | 0 | |
| 263500 | 32.68 | 32.68 | 0 | 33.74 | 33.74 | 0 | 34.17 | 34.17 | 0 | 34.36 | 34.36 | 0 | 35.01 | 35.01 | 0 | |
| 263510 | 32.7 | 32.7 | 0 | 33.79 | 33.79 | 0 | 34.25 | 34.25 | 0 | 34.46 | 34.46 | 0 | 35.15 | 35.15 | 0 | |
| 263520 | 32.71 | 32.71 | 0 | 33.85 | 33.85 | 0 | 34.43 | 34.43 | 0 | 34.72 | 34.72 | 0 | 35.8 | 35.8 | 0 | |
| 263530 | 32.71 | 32.71 | 0 | 33.86 | 33.86 | 0 | 34.45 | 34.45 | 0 | 34.75 | 34.75 | 0 | 35.85 | 35.85 | 0 | |
| 263540 | 32.85 | 32.85 | 0 | 33.96 | 33.96 | 0 | 34.61 | 34.61 | 0 | 34.91 | 34.91 | 0 | 36.04 | 36.04 | 0 | |
| 263550 | 32.89 | 32.89 | 0 | 33.96 | 33.96 | 0 | 34.61 | 34.61 | 0 | 34.91 | 34.91 | 0 | 36.04 | 36.04 | 0 | |
| 263560 | 29.35 | 29.35 | 0 | 31.02 | 31.02 | 0 | 31.53 | 31.53 | 0 | 31.76 | 31.76 | 0 | 32.55 | 32.55 | 0 | |
| 263570 | 29.35 | 29.35 | 0 | 31.02 | 31.02 | 0 | 31.54 | 31.54 | 0 | 31.76 | 31.76 | 0 | 32.55 | 32.55 | 0 | |
| 263580 | 29.35 | 29.35 | 0 | 31.02 | 31.02 | 0 | 31.54 | 31.54 | 0 | 31.76 | 31.76 | 0 | 32.62 | 32.62 | 0 | |
| 263590 | 29.37 | 29.37 | 0 | 31.04 | 31.04 | 0 | 31.56 | 31.56 | 0 | 31.78 | 31.78 | 0 | 32.55 | 32.55 | 0 | |
| 263600 | 30.72 | 30.72 | 0 | 31.04 | 31.04 | 0 | 31.56 | 31.56 | 0 | 31.78 | 31.78 | 0 | 32.55 | 32.55 | 0 | |
| 263610 | 29.36 | 29.36 | 0 | 31.04 | 31.04 | 0 | 31.56 | 31.56 | 0 | 31.78 | 31.78 | 0 | 32.59 | 32.59 | 0 | |
| 263620 | 29.36 | 29.36 | 0 | 31.02 | 31.02 | 0 | 31.54 | 31.54 | 0 | 31.76 | 31.76 | 0 | 32.62 | 32.62 | 0 | |
| 263630 | 29.31 | 29.31 | 0 | 31.02 | 31.02 | 0 | 31.54 | 31.54 | 0 | 31.76 | 31.76 | 0 | 32.62 | 32.62 | 0 | |
| 263640 | 29.35 | 29.35 | 0 | 31.02 | 31.02 | 0 | 31.54 | 31.54 | 0 | 31.76 | 31.76 | 0 | 32.62 | 32.62 | 0 | |
| 263650 | 29.29 | 29.29 | 0 | 31.02 | 31.02 | 0 | 31.54 | 31.54 | 0 | 31.76 | 31.76 | 0 | 32.62 | 32.62 | 0 | |
| 263660 | 29.22 | 29.22 | 0 | 31.02 | 31.02 | 0 | 31.54 | 31.54 | 0 | 31.76 | 31.76 | 0 | 32.62 | 32.62 | 0 | |
| 263670 | 29.22 | 29.22 | 0 | 31.02 | 31.02 | 0 | 31.53 | 31.53 | 0 | 31.75 | 31.75 | 0 | 32.67 | 32.67 | 0 | |
| 263680 | 29.22 | 29.22 | 0 | 31.01 | 31.01 | 0 | 31.52 | 31.52 | 0 | 31.75 | 31.75 | 0 | 32.67 | 32.67 | 0 | |
| 263690 | 29.22 | 29.22 | 0 | 31 | 31 | 0 | 31.49 | 31.49 | 0 | 31.72 | 31.72 | 0 | 32.71 | 32.71 | 0 | |
| 263700 | 29.85 | 29.85 | 0 | 30.97 | 30.97 | 0 | 31.47 | 31.47 | 0 | 31.71 | 31.71 | 0 | 32.71 | 32.71 | 0 | |
| 263710 | 29.85 | 29.85 | 0 | 30.94 | 30.94 | 0 | 31.39 | 31.39 | 0 | 31.64 | 31.64 | 0 | 32.77 | 32.77 | 0 | |
| 263720 | 28.69 | 28.69 | 0 | 30.39 | 30.39 | 0 | 31.3 | 31.3 | 0 | 31.63 | 31.63 | 0 | 32.78 | 32.78 | 0 | |
| 263730 | 29.19 | 29.19 | 0 | 30.39 | 30.39 | 0 | 31.3 | 31.3 | 0 | 31.63 | 31.63 | 0 | 32.78 | 32.78 | 0 | |
| 263740 | 30.32 | 30.32 | 0 | 31.1 | 31.1 | 0 | 31.59 | 31.59 | 0 | 31.81 | 31.81 | 0 | 32.58 | 32.58 | 0 | |
| 263750 | 30.31 | 30.31 | 0 | 31.08 | 31.08 | 0 | 31.59 | 31.59 | 0 | 31.81 | 31.81 | 0 | 32.57 | 32.57 | 0 | |
| 263760 | 30.35 | 30.35 | 0 | 31.16 | 31.16 | 0 | 31.67 | 31.67 | 0 | 31.9 | 31.9 | 0 | 32.83 | 32.83 | 0 | |
| 263770 | 30.35 | 30.35 | 0 | 31.16 | 31.16 | 0 | 31.67 | 31.67 | 0 | 31.9 | 31.9 | 0 | 32.83 | 32.83 | 0 | |
| 263780 | 30.48 | 30.48 | 0 | 31.17 | 31.17 | 0 | 31.67 | 31.67 | 0 | 31.9 | 31.9 | 0 | 32.82 | 32.82 | 0 | |
| 263790 | 30.89 | 30.89 | 0 | 31.79 | 31.79 | 0 | 32.19 | 32.19 | 0 | 32.38 | 32.38 | 0 | 33.2 | 33.2 | 0 | |
| 263800 | 31.92 | 31.92 | 0 | 32.31 | 32.31 | 0 | 32.53 | 32.53 | 0 | 32.65 | 32.65 | 0 | 33.32 | 33.32 | 0 | |
| 263810 | 32.01 | 32.01 | 0 | 32.58 | 32.58 | 0 | 32.91 | 32.91 | 0 | 33.07 | 33.07 | 0 | 33.77 | 33.77 | 0 | |
| 263815 | 32.84 | 32.84 | 0 | 33.92 | 33.92 | 0 | 34.33 | 34.33 | 0 | 34.51 | 34.51 | 0 | 35.28 | 35.28 | 0 | |
| 263820 | 32.84 | 32.84 | 0 | 33.92 | 33.92 | 0 | 34.33 | 34.33 | 0 | 34.51 | 34.51 | 0 | 35.28 | 35.28 | 0 | |
| 263830 | 32.84 | 32.84 | 0 | 33.93 | 33.93 | 0 | 34.34 | 34.34 | 0 | 34.52 | 34.52 | 0 | 35.3 | 35.3 | 0 | |
| 263840 | 33.12 | 33.12 | 0 | 33.94 | 33.94 | 0 | 34.34 | 34.34 | 0 | 34.52 | 34.52 | 0 | 35.3 | 35.3 | 0 | |
| 263850 | 33.84 | 33.84 | 0 | 35.16 | 35.16 | 0 | 35.59 | 35.59 | 0 | 35.77 | 35.77 | 0 | 36.47 | 36.47 | 0 | |
| 263860 | 33.84 | 33.84 | 0 | 35.16 | 35.16 | 0 | 35.59 | 35.59 | 0 | 35.77 | 35.77 | 0 | 36.47 | 36.47 | 0 | |
| 263870 | 35.18 | 35.18 | 0 | 35.62 | 35.62 | 0 | 35.81 | 35.81 | 0 | 35.89 | 35.89 | 0 | 36.28 | 36.28 | 0 | |
| 263900 | 30.35 | 30.35 | 0 | 31.16 | 31.16 | 0 | 31.66 | 31.66 | 0 | 31.88 | 31.88 | 0 | 32.81 | 32.81 | 0 | |
| 263910 | 30.35 | 30.35 | 0 | 31.16 | 31.16 | 0 | 31.66 | 31.66 | 0 | 31.88 | 31.88 | 0 | 32.81 | 32.81 | 0 | |
| 263920 | 30.85 | 30.85 | 0 | 31.92 | 31.92 | 0 | 32.49 | 32.49 | 0 | 32.64 | 32.64 | 0 | 33.34 | 33.34 | 0 | |
| 263930 | 30.86 | 30.86 | 0 | 31.94 | 31.94 | 0 | 32.51 | 32.51 | 0 | 32.65 | 32.65 | 0 | 33.34 | 33.34 | 0 | |
| 263940 | 30.85 | 30.85 | 0 | 31.91 | 31.91 | 0 | 32.47 | 32.47 | 0 | 32.58 | 32.58 | 0 | 32.84 | 32.84 | 0 | |
| 263950 | 30.85 | 30.85 | 0 | 31.91 | 31.91 | 0 | 32.47 | 32.47 | 0 | 32.58 | 32.58 | 0 | 32.84 | 32.84 | 0 | |
| 263960 | 30.9 | 30.9 | 0 | 30.9 | 30.9 | 0 | 31.37 | 31.37 | 0 | 31.72 | 31.72 | 0 | 32.75 | 32.75 | 0 | |
| 263970 | 30.35 | 30.35 | 0 | 31.14 | 31.14 | 0 | 31.62 | 31.62 | 0 | 31.74 | 31.74 | 0 | 32.75 | 32.75 | 0 | |
| 263980 | 30.03 | 30.03 | 0 | 30.94 | 30.94 | 0 | 31.37 | 31.37 | 0 | 31.72 | 31.72 | 0 | 32.75 | 32.75 | 0 | |
| 263990 | 30.03 | 30.03 | 0 | 30.94 | 30.94 | 0 | 31.37 | 31.37 | 0 | 31.72 | 31.72 | 0 | 32.75 | 32.75 | 0 | |
| 264000 | 30.35 | 30.35 | 0 | 31.16 | 31.16 | 0 | 31.66 | 31.66 | 0 | 31. | | | | | | |

Summary of Corrected and Revised Stages for Bridge Culvert

| Node | 2.33YR24HR | | | 25YR24HR | | | 50YR24HR | | | 100YR24HR | | | 500YR24HR | | | Notes |
|--------|--------------------------------|---------------------|-----------------|--------------------------------|---------------------|-----------------|--------------------------------|---------------------|-----------------|--------------------------------|---------------------|-----------------|--------------------------------|---------------------|-----------------|-------|
| | Corrected Effective Stage (ft) | Proposed Stage (ft) | Difference (ft) | Corrected Effective Stage (ft) | Proposed Stage (ft) | Difference (ft) | Corrected Effective Stage (ft) | Proposed Stage (ft) | Difference (ft) | Corrected Effective Stage (ft) | Proposed Stage (ft) | Difference (ft) | Corrected Effective Stage (ft) | Proposed Stage (ft) | Difference (ft) | |
| 264130 | 29.6 | 29.6 | 0 | 29.95 | 29.95 | 0 | 30.13 | 30.13 | 0 | 30.21 | 30.21 | 0 | 30.59 | 30.59 | 0 | |
| 264140 | 25.82 | 25.82 | 0 | 27.2 | 27.2 | 0 | 27.82 | 27.82 | 0 | 28.14 | 28.14 | 0 | 29.21 | 29.21 | 0 | |
| 264150 | 25.83 | 25.83 | 0 | 27.2 | 27.2 | 0 | 27.82 | 27.82 | 0 | 28.14 | 28.14 | 0 | 29.21 | 29.21 | 0 | |
| 264160 | 27.96 | 27.96 | 0 | 28.48 | 28.48 | 0 | 28.76 | 28.76 | 0 | 28.89 | 28.89 | 0 | 29.81 | 29.81 | 0 | |
| 264170 | 27.97 | 27.97 | 0 | 28.5 | 28.5 | 0 | 28.79 | 28.79 | 0 | 28.92 | 28.92 | 0 | 29.81 | 29.81 | 0 | |
| 264200 | 26.19 | 26.19 | 0 | 27.86 | 27.86 | 0 | 28.56 | 28.56 | 0 | 28.85 | 28.85 | 0 | 29.87 | 29.87 | 0 | |
| 264208 | 26.35 | 26.35 | 0 | 27.94 | 27.94 | 0 | 28.64 | 28.64 | 0 | 28.94 | 28.94 | 0 | 30.01 | 30.01 | 0 | |
| 264210 | 26.22 | 26.22 | 0 | 27.88 | 27.88 | 0 | 28.58 | 28.58 | 0 | 28.87 | 28.87 | 0 | 29.91 | 29.91 | 0 | |
| 264220 | 26.35 | 26.35 | 0 | 27.95 | 27.95 | 0 | 28.64 | 28.64 | 0 | 28.94 | 28.94 | 0 | 30.01 | 30.01 | 0 | |
| 264230 | 26.35 | 26.35 | 0 | 27.94 | 27.94 | 0 | 28.63 | 28.63 | 0 | 28.93 | 28.93 | 0 | 30.01 | 30.01 | 0 | |
| 264240 | 26.35 | 26.35 | 0 | 27.93 | 27.93 | 0 | 28.6 | 28.6 | 0 | 28.9 | 28.9 | 0 | 30 | 30 | 0 | |
| 264250 | 26.35 | 26.35 | 0 | 27.93 | 27.93 | 0 | 28.6 | 28.6 | 0 | 28.9 | 28.9 | 0 | 30 | 30 | 0 | |
| 264260 | 25.99 | 25.99 | 0 | 27.9 | 27.9 | 0 | 28.51 | 28.51 | 0 | 28.78 | 28.78 | 0 | 29.76 | 29.76 | 0 | |
| 264270 | 25.95 | 25.95 | 0 | 27.64 | 27.64 | 0 | 28.23 | 28.23 | 0 | 28.49 | 28.49 | 0 | 29.5 | 29.5 | 0 | |
| 264280 | 25.95 | 25.95 | 0 | 27.55 | 27.55 | 0 | 28.16 | 28.16 | 0 | 28.42 | 28.42 | 0 | 29.47 | 29.47 | 0 | |
| 264290 | 26.22 | 26.22 | 0 | 27.88 | 27.88 | 0 | 28.58 | 28.58 | 0 | 28.87 | 28.87 | 0 | 29.91 | 29.91 | 0 | |
| 264300 | 31.63 | 31.63 | 0 | 31.76 | 31.76 | 0 | 31.82 | 31.82 | 0 | 31.85 | 31.85 | 0 | 32 | 32 | 0 | |
| 264310 | 26.37 | 26.37 | 0 | 28.03 | 28.03 | 0 | 28.75 | 28.75 | 0 | 29.08 | 29.08 | 0 | 30.39 | 30.39 | 0 | |
| 264320 | 28.66 | 28.66 | 0 | 29.62 | 29.62 | 0 | 30.04 | 30.04 | 0 | 30.23 | 30.23 | 0 | 31.03 | 31.03 | 0 | |
| 264330 | 29.04 | 29.04 | 0 | 29.97 | 29.97 | 0 | 30.36 | 30.36 | 0 | 30.54 | 30.54 | 0 | 31.28 | 31.28 | 0 | |
| 264340 | 29.05 | 29.05 | 0 | 30.19 | 30.19 | 0 | 30.69 | 30.69 | 0 | 30.91 | 30.91 | 0 | 31.88 | 31.88 | 0 | |
| 264350 | 30.05 | 30.05 | 0 | 30.7 | 30.7 | 0 | 31.06 | 31.06 | 0 | 31.23 | 31.23 | 0 | 32.07 | 32.07 | 0 | |
| 264360 | 30.98 | 30.98 | 0 | 31.2 | 31.2 | 0 | 31.31 | 31.31 | 0 | 31.38 | 31.38 | 0 | 32.07 | 32.07 | 0 | |
| 264370 | 28.44 | 28.44 | 0 | 29.09 | 29.09 | 0 | 29.4 | 29.4 | 0 | 29.54 | 29.54 | 0 | 30.23 | 30.23 | 0 | |
| 264380 | 26.53 | 26.53 | 0 | 28.01 | 28.01 | 0 | 28.6 | 28.6 | 0 | 28.93 | 28.93 | 0 | 32.16 | 32.16 | 0 | |
| 264390 | 27.04 | 27.04 | 0 | 27.93 | 27.93 | 0 | 28.55 | 28.55 | 0 | 28.82 | 28.82 | 0 | 30.08 | 30.08 | 0 | |
| 264395 | 27.59 | 27.59 | 0 | 28.64 | 28.64 | 0 | 29.25 | 29.25 | 0 | 29.55 | 29.55 | 0 | 30.15 | 30.15 | 0 | |
| 264398 | 28.95 | 28.95 | 0 | 29.8 | 29.8 | 0 | 30.26 | 30.26 | 0 | 30.49 | 30.49 | 0 | 31.68 | 31.68 | 0 | |
| 264400 | 28.97 | 28.97 | 0 | 29.8 | 29.8 | 0 | 30.26 | 30.26 | 0 | 30.49 | 30.49 | 0 | 31.68 | 31.68 | 0 | |
| 264410 | 30.54 | 30.54 | 0 | 32.31 | 32.31 | 0 | 32.72 | 32.72 | 0 | 32.89 | 32.89 | 0 | 33.64 | 33.64 | 0 | |
| 264500 | 26.47 | 26.47 | 0 | 28.1 | 28.1 | 0 | 28.79 | 28.79 | 0 | 29.09 | 29.09 | 0 | 30.52 | 30.52 | 0 | |
| 264510 | 27.59 | 27.59 | 0 | 28.65 | 28.65 | 0 | 29.29 | 29.29 | 0 | 29.59 | 29.59 | 0 | 30.78 | 30.78 | 0 | |
| 264520 | 27.61 | 27.61 | 0 | 28.72 | 28.72 | 0 | 29.34 | 29.34 | 0 | 29.64 | 29.64 | 0 | 30.92 | 30.92 | 0 | |
| 264530 | 27.59 | 27.59 | 0 | 28.65 | 28.65 | 0 | 29.29 | 29.29 | 0 | 29.59 | 29.59 | 0 | 30.78 | 30.78 | 0 | |
| 264540 | 27.65 | 27.65 | 0 | 28.67 | 28.67 | 0 | 29.29 | 29.29 | 0 | 29.6 | 29.6 | 0 | 30.78 | 30.78 | 0 | |
| 264550 | 29.29 | 29.29 | 0 | 30.3 | 30.3 | 0 | 30.51 | 30.51 | 0 | 30.59 | 30.59 | 0 | 30.94 | 30.94 | 0 | |
| 264560 | 27.58 | 27.58 | 0 | 28.17 | 28.17 | 0 | 28.54 | 28.54 | 0 | 28.82 | 28.82 | 0 | 29.85 | 29.85 | 0 | |
| 264570 | 27.63 | 27.63 | 0 | 28.38 | 28.38 | 0 | 28.82 | 28.82 | 0 | 29.05 | 29.05 | 0 | 30.01 | 30.01 | 0 | |
| 264580 | 29.87 | 29.87 | 0 | 30.1 | 30.1 | 0 | 30.22 | 30.22 | 0 | 30.28 | 30.28 | 0 | 30.58 | 30.58 | 0 | |
| 264590 | 30.25 | 30.25 | 0 | 30.84 | 30.84 | 0 | 32.11 | 32.11 | 0 | 32.6 | 32.6 | 0 | 33.46 | 33.46 | 0 | |
| 264600 | 31.48 | 31.48 | 0 | 32.42 | 32.42 | 0 | 32.64 | 32.64 | 0 | 32.74 | 32.74 | 0 | 33.47 | 33.47 | 0 | |
| 264610 | 28.36 | 28.36 | 0 | 29.41 | 29.41 | 0 | 29.85 | 29.85 | 0 | 30.05 | 30.05 | 0 | 30.95 | 30.95 | 0 | |
| 264700 | 26.18 | 26.18 | 0 | 27.85 | 27.85 | 0 | 28.52 | 28.52 | 0 | 28.8 | 28.8 | 0 | 29.84 | 29.84 | 0 | |
| 264710 | 26.18 | 26.18 | 0 | 27.69 | 27.69 | 0 | 28.21 | 28.21 | 0 | 28.52 | 28.52 | 0 | 29.76 | 29.76 | 0 | |
| 264720 | 26.18 | 26.18 | 0 | 27.69 | 27.69 | 0 | 28.21 | 28.21 | 0 | 28.53 | 28.53 | 0 | 30.07 | 30.07 | 0 | |
| 264730 | 28.62 | 28.62 | 0 | 29.3 | 29.3 | 0 | 29.54 | 29.54 | 0 | 29.65 | 29.65 | 0 | 30.24 | 30.24 | 0 | |
| 264740 | 28.62 | 28.62 | 0 | 29.31 | 29.31 | 0 | 29.54 | 29.54 | 0 | 29.65 | 29.65 | 0 | 30.25 | 30.25 | 0 | |
| 264750 | 26.24 | 26.24 | 0 | 27.93 | 27.93 | 0 | 28.62 | 28.62 | 0 | 28.9 | 28.9 | 0 | 29.97 | 29.97 | 0 | |
| 264760 | 26.25 | 26.25 | 0 | 27.94 | 27.94 | 0 | 28.62 | 28.62 | 0 | 28.9 | 28.9 | 0 | 29.97 | 29.97 | 0 | |
| 264770 | 26.32 | 26.32 | 0 | 28.02 | 28.02 | 0 | 28.71 | 28.71 | 0 | 29 | 29 | 0 | 30.1 | 30.1 | 0 | |
| 264780 | 26.38 | 26.38 | 0 | 28.13 | 28.13 | 0 | 28.83 | 28.83 | 0 | 29.1 | 29.1 | 0 | 30.16 | 30.16 | 0 | |
| 264790 | 28.36 | 28.36 | 0 | 28.51 | 28.51 | 0 | 28.85 | 28.85 | 0 | 29.11 | 29.11 | 0 | 30.16 | 30.16 | 0 | |
| 264800 | 28.71 | 28.71 | 0 | 29.28 | 29.28 | 0 | 29.51 | 29.51 | 0 | 29.62 | 29.62 | 0 | 30.25 | 30.25 | 0 | |
| 264810 | 28.84 | 28.84 | 0 | 29.29 | 29.29 | 0 | 29.52 | 29.52 | 0 | 29.63 | 29.63 | 0 | 30.25 | 30.25 | 0 | |
| 264820 | 28.34 | 28.34 | 0 | 28.84 | 28.84 | 0 | 29.08 | 29.08 | 0 | 29.2 | 29.2 | 0 | 30.1 | 30.1 | 0 | |
| 264830 | 26.32 | 26.32 | 0 | 28.02 | 28.02 | 0 | 28.71 | 28.71 | 0 | 29 | 29 | 0 | 30.1 | 30.1 | 0 | |
| 264840 | 26.32 | 26.32 | 0 | 28.02 | 28.02 | 0 | 28.71 | 28.71 | 0 | 29 | 29 | 0 | 30.1 | 30.1 | 0 | |
| 264850 | 29.83 | 29.83 | 0 | 30.01 | 30.01 | 0 | 30.1 | 30.1 | 0 | 30.14 | 30.14 | 0 | 30.35 | 30.35 | 0 | |
| 264860 | 26.32 | 26.32 | 0 | 28.02 | 28.02 | 0 | 28.71 | 28.71 | 0 | 29 | 29 | 0 | 30.1 | 30.1 | 0 | |
| 264870 | 26.32 | 26.32 | 0 | 28.02 | 28.02 | 0 | 28.71 | 28.71 | 0 | 29 | 29 | 0 | 30.1 | 30.1 | 0 | |
| 264880 | 26.32 | 26.32 | 0 | 28.02 | 28.02 | 0 | 28.71 | 28.71 | 0 | 29 | 29 | 0 | 30.1 | 30.1 | 0 | |
| 264890 | 26.32 | 26.32 | 0 | 28.02 | 28.02 | 0 | 28.71 | 28.71 | 0 | 29 | 29 | 0 | 30.1 | 30.1 | 0 | |
| 264900 | 27.51 | 27.51 | 0 | 29.37 | 29.37 | 0 | 29.78 | 29.78 | 0 | 29.96 | 29.96 | 0 | 30.63 | 30.63 | 0 | |
| 264910 | 28.98 | 28.98 | 0 | 29.41 | 29.41 | 0 | 29.79 | 29.79 | 0 | 29.97 | 29.97 | 0 | 30.63 | 30.63 | 0 | |
| 264920 | 29.05 | 29.05 | 0 | 29.54 | 29.54 | 0 | 29.87 | 29.87 | 0 | 30.05 | 30.05 | 0 | 30.67 | 30.67 | 0 | |
| 264930 | 29.13 | 29.13 | 0 | 29.81 | 29.81 | 0 | 30.13 | 30.13 | 0 | 30.25 | 30.25 | 0 | 30.74 | 30.74 | 0 | |
| 264940 | 29.16 | 29.16 | 0 | 29.85 | 29.85 | 0 | 30.17 | 30.17 | 0 | 30.28 | 30.28 | 0 | 30.75 | 30.75 | 0 | |
| 264950 | 26.32 | 26.32 | 0 | 28.02 | 28.02 | 0 | 28.71 | 28.71 | 0 | 29 | 29 | 0 | 30.1 | 30.1 | 0 | |
| 264960 | 28.36 | 28.36 | 0 | 28.87 | 28.87 | 0 | 29.1 | 29.1 | 0 | 29.21 | 29.21 | 0 | 30.1 | 30.1 | 0 | |
| 264970 | 28.38 | 28.38 | 0 | 28.91 | 28.91 | 0 | 29.17 | 29.17 | 0 | 29.29 | 29.29 | 0 | 30.1 | 30.1 | 0 | |
| 265000 | 26.62 | 26.62 | 0 | 28.83 | 28.83 | 0 | 29.84 | 29.84 | 0 | 30.15 | 30.15 | 0 | 31.15 | 31.15 | 0 | |
| 265010 | 29.6 | 29.6 | 0 | 30.71 | 30.71 | 0 | 31.16 | 31.16 | 0 | 31.35 | 31.35 | 0 | 32.15 | 32.15 | 0 | |
| 265020 | 28.88 | 28.88 | 0 | 29.56 | 29.56 | 0 | 29.81 | 29.81 | 0 | 29.96 | 29.96 | 0 | 30.85 | 30.85 | 0 | |
| 265030 | 27.08 | 27.08 | 0 | 29.99 | 29.99 | 0 | 30.8 | 30.8 | 0 | 31.09 | 31.09 | 0 | 31.97 | 31.97 | 0 | |
| 265040 | 30.39 | 30.39 | 0 | 31.56 | 31.56 | 0 | 31.99 | 31.99 | 0 | 32.17 | 32.17 | 0 | 32.89 | 32.89 | 0 | |
| 265050 | 29.87 | 29.87 | 0 | 30.96 | 30.96 | 0 | 31.4 | 31.4 | 0 | 31.58 | 31.58 | 0 | 32.35 | 32.35 | 0 | |
| 265060 | 26.17 | 26.17 | 0 | 27.87 | 27.87 | 0 | 29.43 | 29.43 | 0 | 29.79 | 29.79 | 0 | 31.01 | 31.01 | 0 | |
| 265070 | 26.53 | 26.53 | 0 | 29.05 | 29.05 | 0 | 30.23 | 30.23 | 0 | 30.63 | 30.63 | 0 | 31.97 | 31.97 | 0 | |
| 265100 | 27.76 | 27.76 | 0 | 28.53 | 28.53 | 0 | 28.84 | 28.84 | 0 | 29.03 | 29.03 | 0 | 30.13 | 30.13 | 0 | |
| 265110 | 29.19 | 29.19 | 0 | 29.64 | 29.64 | 0 | 29.82 | 29.82 | 0 | 29.91 | 29.91 | 0 | 30.39 | 30.39 | 0 | |
| 265120 | 29.3 | 29.3 | 0 | 29.88 | 29.88 | 0 | 30.14 | 30.14 | 0 | 30.26 | 30.26 | 0 | 30.86 | 30.86 | 0 | |
| 265130 | 29.38 | 29.38 | 0 | 29.92 | 29.92 | 0 | 30.17 | 30.17 | 0 | 30.28 | 30.28 | 0 | 30.88 | 30.88 | 0 | |
| 265140 | 29.51 | 29.51 | 0 | 30.11 | 30.11 | 0 | 30.39 | 30.39 | 0 | 30.51 | 30.51 | 0 | 31.14 | 31.14 | 0 | |
| 265150 | 29.51 | 29.51 | 0 | 30.09 | | | | | | | | | | | | |

Summary of Corrected and Revised Stages for Bridge Culvert

| Node | 2.33YR24HR | | | 25YR24HR | | | 50YR24HR | | | 100YR24HR | | | 500YR24HR | | | Notes |
|--------|--------------------------------|---------------------|-----------------|--------------------------------|---------------------|-----------------|--------------------------------|---------------------|-----------------|--------------------------------|---------------------|-----------------|--------------------------------|---------------------|-----------------|-------|
| | Corrected Effective Stage (ft) | Proposed Stage (ft) | Difference (ft) | Corrected Effective Stage (ft) | Proposed Stage (ft) | Difference (ft) | Corrected Effective Stage (ft) | Proposed Stage (ft) | Difference (ft) | Corrected Effective Stage (ft) | Proposed Stage (ft) | Difference (ft) | Corrected Effective Stage (ft) | Proposed Stage (ft) | Difference (ft) | |
| 265200 | 29.2 | 29.2 | 0 | 29.71 | 29.71 | 0 | 29.94 | 29.94 | 0 | 30.06 | 30.06 | 0 | 30.63 | 30.63 | 0 | |
| 265210 | 29.21 | 29.21 | 0 | 29.74 | 29.74 | 0 | 29.99 | 29.99 | 0 | 30.1 | 30.1 | 0 | 30.65 | 30.65 | 0 | |
| 265220 | 29.21 | 29.21 | 0 | 29.74 | 29.74 | 0 | 29.99 | 29.99 | 0 | 30.1 | 30.1 | 0 | 30.65 | 30.65 | 0 | |
| 265230 | 29.21 | 29.21 | 0 | 29.75 | 29.75 | 0 | 30 | 30 | 0 | 30.13 | 30.13 | 0 | 30.7 | 30.7 | 0 | |
| 265240 | 29.22 | 29.22 | 0 | 29.81 | 29.81 | 0 | 30.19 | 30.19 | 0 | 30.34 | 30.34 | 0 | 30.98 | 30.98 | 0 | |
| 265250 | 30.5 | 30.5 | 0 | 30.71 | 30.71 | 0 | 30.81 | 30.81 | 0 | 30.86 | 30.86 | 0 | 31.16 | 31.16 | 0 | |
| 265260 | 29.33 | 29.33 | 0 | 29.99 | 29.99 | 0 | 30.3 | 30.3 | 0 | 30.45 | 30.45 | 0 | 31.18 | 31.18 | 0 | |
| 265270 | 29.69 | 29.69 | 0 | 30.25 | 30.25 | 0 | 30.53 | 30.53 | 0 | 30.66 | 30.66 | 0 | 31.22 | 31.22 | 0 | |
| 265280 | 29.64 | 29.64 | 0 | 30.43 | 30.43 | 0 | 30.78 | 30.78 | 0 | 30.94 | 30.94 | 0 | 31.67 | 31.67 | 0 | |
| 265290 | 29.78 | 29.78 | 0 | 30.52 | 30.52 | 0 | 30.85 | 30.85 | 0 | 31 | 31 | 0 | 31.7 | 31.7 | 0 | |
| 265300 | 29.79 | 29.79 | 0 | 30.52 | 30.52 | 0 | 30.85 | 30.85 | 0 | 31 | 31 | 0 | 31.71 | 31.71 | 0 | |
| 265400 | 26.01 | 26.01 | 0 | 27.86 | 27.86 | 0 | 28.55 | 28.55 | 0 | 28.83 | 28.83 | 0 | 29.82 | 29.82 | 0 | |
| 265410 | 26.16 | 26.16 | 0 | 27.86 | 27.86 | 0 | 28.55 | 28.55 | 0 | 28.83 | 28.83 | 0 | 29.82 | 29.82 | 0 | |
| 265420 | 26.15 | 26.15 | 0 | 27.85 | 27.85 | 0 | 28.53 | 28.53 | 0 | 28.81 | 28.81 | 0 | 29.79 | 29.79 | 0 | |
| 265430 | 26.15 | 26.15 | 0 | 27.85 | 27.85 | 0 | 28.53 | 28.53 | 0 | 28.81 | 28.81 | 0 | 29.79 | 29.79 | 0 | |
| 265440 | 27.99 | 27.99 | 0 | 28.21 | 28.21 | 0 | 28.53 | 28.53 | 0 | 28.81 | 28.81 | 0 | 29.79 | 29.79 | 0 | |
| 265460 | 26.15 | 26.15 | 0 | 27.85 | 27.85 | 0 | 28.54 | 28.54 | 0 | 28.82 | 28.82 | 0 | 29.79 | 29.79 | 0 | |
| 265470 | 26.15 | 26.15 | 0 | 27.85 | 27.85 | 0 | 28.54 | 28.54 | 0 | 28.82 | 28.82 | 0 | 29.79 | 29.79 | 0 | |
| 265480 | 26.01 | 26.01 | 0 | 27.86 | 27.86 | 0 | 28.55 | 28.55 | 0 | 28.83 | 28.83 | 0 | 29.82 | 29.82 | 0 | |
| 265490 | 27.13 | 27.13 | 0 | 27.87 | 27.87 | 0 | 28.55 | 28.55 | 0 | 28.83 | 28.83 | 0 | 29.84 | 29.84 | 0 | |
| 265500 | 26.65 | 26.65 | 0 | 28.17 | 28.17 | 0 | 28.86 | 28.86 | 0 | 29.04 | 29.04 | 0 | 29.81 | 29.81 | 0 | |
| 265510 | 28.1 | 28.1 | 0 | 28.59 | 28.59 | 0 | 28.86 | 28.86 | 0 | 29.04 | 29.04 | 0 | 29.81 | 29.81 | 0 | |
| 265520 | 28.14 | 28.14 | 0 | 28.92 | 28.92 | 0 | 29.35 | 29.35 | 0 | 29.6 | 29.6 | 0 | 30.35 | 30.35 | 0 | |
| 265530 | 28.78 | 28.78 | 0 | 29.53 | 29.53 | 0 | 29.73 | 29.73 | 0 | 29.82 | 29.82 | 0 | 30.37 | 30.37 | 0 | |
| 265540 | 26.37 | 26.37 | 0 | 27.87 | 27.87 | 0 | 28.55 | 28.55 | 0 | 28.83 | 28.83 | 0 | 29.81 | 29.81 | 0 | |
| 265550 | 29.4 | 29.4 | 0 | 29.79 | 29.79 | 0 | 29.9 | 29.9 | 0 | 29.93 | 29.93 | 0 | 30.06 | 30.06 | 0 | |
| 265560 | 29.79 | 29.79 | 0 | 30.91 | 30.91 | 0 | 31.32 | 31.32 | 0 | 31.45 | 31.45 | 0 | 32 | 32 | 0 | |
| 265600 | 26.48 | 26.48 | 0 | 27.93 | 27.93 | 0 | 28.55 | 28.55 | 0 | 28.83 | 28.83 | 0 | 29.79 | 29.79 | 0 | |
| 265610 | 27.08 | 27.08 | 0 | 27.96 | 27.96 | 0 | 28.55 | 28.55 | 0 | 28.83 | 28.83 | 0 | 29.79 | 29.79 | 0 | |
| 265620 | 27.08 | 27.08 | 0 | 27.96 | 27.96 | 0 | 28.55 | 28.55 | 0 | 28.83 | 28.83 | 0 | 29.79 | 29.79 | 0 | |
| 265630 | 27.12 | 27.12 | 0 | 28.35 | 28.35 | 0 | 28.91 | 28.91 | 0 | 29.01 | 29.01 | 0 | 29.78 | 29.78 | 0 | |
| 265640 | 28.5 | 28.5 | 0 | 28.89 | 28.89 | 0 | 28.99 | 28.99 | 0 | 29.05 | 29.05 | 0 | 29.78 | 29.78 | 0 | |
| 265650 | 26.46 | 26.46 | 0 | 27.86 | 27.86 | 0 | 28.55 | 28.55 | 0 | 28.83 | 28.83 | 0 | 29.79 | 29.79 | 0 | |
| 265660 | 27.69 | 27.69 | 0 | 28.02 | 28.02 | 0 | 28.55 | 28.55 | 0 | 28.83 | 28.83 | 0 | 29.79 | 29.79 | 0 | |
| 265670 | 26.46 | 26.46 | 0 | 27.86 | 27.86 | 0 | 28.55 | 28.55 | 0 | 28.83 | 28.83 | 0 | 29.79 | 29.79 | 0 | |
| 265680 | 27.25 | 27.25 | 0 | 27.86 | 27.86 | 0 | 28.55 | 28.55 | 0 | 28.83 | 28.83 | 0 | 29.79 | 29.79 | 0 | |
| 265690 | 26.46 | 26.46 | 0 | 27.86 | 27.86 | 0 | 28.55 | 28.55 | 0 | 28.83 | 28.83 | 0 | 29.79 | 29.79 | 0 | |
| 265700 | 26.83 | 26.83 | 0 | 28.67 | 28.67 | 0 | 29.36 | 29.36 | 0 | 29.59 | 29.59 | 0 | 30.39 | 30.39 | 0 | |
| 265710 | 28.14 | 28.14 | 0 | 29.04 | 29.04 | 0 | 29.48 | 29.48 | 0 | 29.66 | 29.66 | 0 | 30.41 | 30.41 | 0 | |
| 265720 | 28.15 | 28.15 | 0 | 29.06 | 29.06 | 0 | 29.5 | 29.5 | 0 | 29.68 | 29.68 | 0 | 30.42 | 30.42 | 0 | |
| 265730 | 26.56 | 26.56 | 0 | 28.06 | 28.06 | 0 | 28.66 | 28.66 | 0 | 28.85 | 28.85 | 0 | 29.78 | 29.78 | 0 | |
| 265740 | 27.41 | 27.41 | 0 | 28.06 | 28.06 | 0 | 28.66 | 28.66 | 0 | 28.85 | 28.85 | 0 | 29.78 | 29.78 | 0 | |
| 265750 | 26.63 | 26.63 | 0 | 28.21 | 28.21 | 0 | 28.67 | 28.67 | 0 | 28.85 | 28.85 | 0 | 29.78 | 29.78 | 0 | |
| 265760 | 27.27 | 27.27 | 0 | 28.22 | 28.22 | 0 | 28.67 | 28.67 | 0 | 28.85 | 28.85 | 0 | 29.78 | 29.78 | 0 | |
| 265770 | 27.33 | 27.33 | 0 | 28.33 | 28.33 | 0 | 28.75 | 28.75 | 0 | 28.89 | 28.89 | 0 | 29.78 | 29.78 | 0 | |
| 265780 | 28.37 | 28.37 | 0 | 28.78 | 28.78 | 0 | 28.94 | 28.94 | 0 | 29 | 29 | 0 | 29.78 | 29.78 | 0 | |
| 265790 | 27.4 | 27.4 | 0 | 28.85 | 28.85 | 0 | 29.19 | 29.19 | 0 | 29.33 | 29.33 | 0 | 29.94 | 29.94 | 0 | |
| 265800 | 28.65 | 28.65 | 0 | 28.98 | 28.98 | 0 | 29.19 | 29.19 | 0 | 29.33 | 29.33 | 0 | 29.94 | 29.94 | 0 | |
| 265810 | 26.67 | 26.67 | 0 | 28.37 | 28.37 | 0 | 28.86 | 28.86 | 0 | 29.05 | 29.05 | 0 | 29.79 | 29.79 | 0 | |
| 265820 | 26.72 | 26.72 | 0 | 28.43 | 28.43 | 0 | 28.95 | 28.95 | 0 | 29.13 | 29.13 | 0 | 29.82 | 29.82 | 0 | |
| 265830 | 27.62 | 27.62 | 0 | 28.6 | 28.6 | 0 | 28.96 | 28.96 | 0 | 29.14 | 29.14 | 0 | 29.82 | 29.82 | 0 | |
| 265900 | 26.62 | 26.62 | 0 | 28.33 | 28.33 | 0 | 28.84 | 28.84 | 0 | 29.03 | 29.03 | 0 | 29.79 | 29.79 | 0 | |
| 265910 | 26.62 | 26.62 | 0 | 28.33 | 28.33 | 0 | 28.84 | 28.84 | 0 | 29.03 | 29.03 | 0 | 29.79 | 29.79 | 0 | |
| 265940 | 26.65 | 26.65 | 0 | 28.3 | 28.3 | 0 | 28.81 | 28.81 | 0 | 29.01 | 29.01 | 0 | 29.78 | 29.78 | 0 | |
| 265950 | 28.6 | 28.6 | 0 | 29.97 | 29.97 | 0 | 30.46 | 30.46 | 0 | 30.66 | 30.66 | 0 | 31.52 | 31.52 | 0 | |
| 265960 | 30.2 | 30.2 | 0 | 30.32 | 30.32 | 0 | 30.39 | 30.39 | 0 | 30.42 | 30.42 | 0 | 30.57 | 30.57 | 0 | |
| 265970 | 28.16 | 28.16 | 0 | 28.66 | 28.66 | 0 | 28.87 | 28.87 | 0 | 28.96 | 28.96 | 0 | 29.79 | 29.79 | 0 | |
| 265980 | 28.33 | 28.33 | 0 | 29.03 | 29.03 | 0 | 29.22 | 29.22 | 0 | 29.28 | 29.28 | 0 | 29.78 | 29.78 | 0 | |
| 265990 | 28.84 | 28.84 | 0 | 29.03 | 29.03 | 0 | 29.22 | 29.22 | 0 | 29.28 | 29.28 | 0 | 29.78 | 29.78 | 0 | |
| 266000 | 29.16 | 29.16 | 0 | 29.63 | 29.63 | 0 | 29.83 | 29.83 | 0 | 29.92 | 29.92 | 0 | 30.4 | 30.4 | 0 | |
| 266010 | 26.46 | 26.46 | 0 | 27.86 | 27.86 | 0 | 28.55 | 28.55 | 0 | 28.83 | 28.83 | 0 | 29.79 | 29.79 | 0 | |
| 266110 | 29.31 | 29.31 | 0 | 31.02 | 31.02 | 0 | 31.54 | 31.54 | 0 | 31.76 | 31.76 | 0 | 32.62 | 32.62 | 0 | |
| 266120 | 29.31 | 29.31 | 0 | 31.02 | 31.02 | 0 | 31.54 | 31.54 | 0 | 31.76 | 31.76 | 0 | 32.62 | 32.62 | 0 | |
| 266130 | 29.35 | 29.35 | 0 | 31.02 | 31.02 | 0 | 31.53 | 31.53 | 0 | 31.75 | 31.75 | 0 | 32.58 | 32.58 | 0 | |
| 266140 | 30.51 | 30.51 | 0 | 31.02 | 31.02 | 0 | 31.53 | 31.53 | 0 | 31.76 | 31.76 | 0 | 32.58 | 32.58 | 0 | |
| 266150 | 34.99 | 34.99 | 0 | 35.23 | 35.23 | 0 | 35.35 | 35.35 | 0 | 35.41 | 35.41 | 0 | 35.71 | 35.71 | 0 | |
| 266160 | 29.59 | 29.59 | 0 | 31.45 | 31.45 | 0 | 31.89 | 31.89 | 0 | 32.07 | 32.07 | 0 | 32.95 | 32.95 | 0 | |
| 266170 | 30.94 | 30.94 | 0 | 31.49 | 31.49 | 0 | 31.9 | 31.9 | 0 | 32.08 | 32.08 | 0 | 32.95 | 32.95 | 0 | |
| 266180 | 34.8 | 34.8 | 0 | 35.37 | 35.37 | 0 | 35.53 | 35.53 | 0 | 35.6 | 35.6 | 0 | 35.92 | 35.92 | 0 | |
| 266190 | 35.3 | 35.3 | 0 | 36.81 | 36.81 | 0 | 37.2 | 37.2 | 0 | 37.34 | 37.34 | 0 | 37.89 | 37.89 | 0 | |
| 266200 | 35.92 | 35.92 | 0 | 38.33 | 38.33 | 0 | 38.64 | 38.64 | 0 | 38.75 | 38.75 | 0 | 39.13 | 39.13 | 0 | |
| 266210 | 38.28 | 38.28 | 0 | 38.56 | 38.56 | 0 | 38.75 | 38.75 | 0 | 38.83 | 38.83 | 0 | 39.16 | 39.16 | 0 | |
| 266220 | 39.35 | 39.35 | 0 | 39.65 | 39.65 | 0 | 39.78 | 39.78 | 0 | 39.84 | 39.84 | 0 | 40.1 | 40.1 | 0 | |
| 266230 | 39.63 | 39.63 | 0 | 40.16 | 40.16 | 0 | 40.41 | 40.41 | 0 | 40.52 | 40.52 | 0 | 41.05 | 41.05 | 0 | |
| 266240 | 35.34 | 35.34 | 0 | 37.2 | 37.2 | 0 | 38.26 | 38.26 | 0 | 38.53 | 38.53 | 0 | 39.05 | 39.05 | 0 | |
| 266250 | 38.5 | 38.5 | 0 | 38.65 | 38.65 | 0 | 38.72 | 38.72 | 0 | 38.75 | 38.75 | 0 | 39.06 | 39.06 | 0 | |
| 266260 | 34.24 | 34.24 | 0 | 34.74 | 34.74 | 0 | 34.91 | 34.91 | 0 | 35.05 | 35.05 | 0 | 35.65 | 35.65 | 0 | |
| 266270 | 31.86 | 31.86 | 0 | 34.92 | 34.92 | 0 | 35.31 | 35.31 | 0 | 35.35 | 35.35 | 0 | 35.65 | 35.65 | 0 | |
| 266280 | 27.98 | 27.98 | 0 | 29.12 | 29.12 | 0 | 29.99 | 29.99 | 0 | 30.58 | 30.58 | 0 | 32.52 | 32.52 | 0 | |
| 266290 | 33.77 | 33.77 | 0 | 34.78 | 34.78 | 0 | 35.22 | 35.22 | 0 | 35.4 | 35.4 | 0 | 35.7 | 35.7 | 0 | |
| 266300 | 29.88 | 29.88 | 0 | 31.94 | 31.94 | 0 | 32.89 | 32.89 | 0 | 33.33 | 33.33 | 0 | 35.6 | 35.6 | 0 | |
| 266310 | 33.78 | 33.78 | 0 | 34.96 | 34.96 | 0 | 35.77 | 35.77 | 0 | 35.98 | 35.98 | 0 | 36.57 | 36.57 | 0 | |
| 266320 | 34.4 | 34.4 | 0 | 35.35 | 35.35 | 0 | 35.85 | 35.85 | 0 | 36.03 | 36.03 | 0 | 36.59 | 36. | | |

Summary of Corrected and Revised Stages for Bridge Culvert

| Node | 2.33YR24HR | | | 25YR24HR | | | 50YR24HR | | | 100YR24HR | | | 500YR24HR | | | Notes |
|--------|--------------------------------|---------------------|-----------------|--------------------------------|---------------------|-----------------|--------------------------------|---------------------|-----------------|--------------------------------|---------------------|-----------------|--------------------------------|---------------------|-----------------|-------|
| | Corrected Effective Stage (ft) | Proposed Stage (ft) | Difference (ft) | Corrected Effective Stage (ft) | Proposed Stage (ft) | Difference (ft) | Corrected Effective Stage (ft) | Proposed Stage (ft) | Difference (ft) | Corrected Effective Stage (ft) | Proposed Stage (ft) | Difference (ft) | Corrected Effective Stage (ft) | Proposed Stage (ft) | Difference (ft) | |
| 266400 | 11.14 | 11.14 | 0 | 11.57 | 11.57 | 0 | 11.77 | 11.77 | 0 | 11.84 | 11.84 | 0 | 12.14 | 12.14 | 0 | |
| 266410 | 10.62 | 10.62 | 0 | 12.6 | 12.6 | 0 | 13.14 | 13.14 | 0 | 13.36 | 13.36 | 0 | 14.04 | 14.04 | 0 | |
| 266420 | 12.03 | 12.03 | 0 | 12.6 | 12.6 | 0 | 13.14 | 13.14 | 0 | 13.36 | 13.36 | 0 | 14.04 | 14.04 | 0 | |
| 266430 | 12.99 | 12.99 | 0 | 13.39 | 13.39 | 0 | 13.54 | 13.54 | 0 | 13.6 | 13.6 | 0 | 14.04 | 14.04 | 0 | |
| 266440 | 13.49 | 13.49 | 0 | 13.69 | 13.69 | 0 | 13.8 | 13.8 | 0 | 13.84 | 13.84 | 0 | 14.04 | 14.04 | 0 | |
| 266450 | 10.96 | 10.96 | 0 | 11.36 | 11.36 | 0 | 11.89 | 11.89 | 0 | 12.22 | 12.22 | 0 | 13.3 | 13.3 | 0 | |
| 266460 | 11.92 | 11.92 | 0 | 12.2 | 12.2 | 0 | 12.34 | 12.34 | 0 | 12.4 | 12.4 | 0 | 13.3 | 13.3 | 0 | |
| 266500 | 11.76 | 11.76 | 0 | 12.36 | 12.36 | 0 | 12.66 | 12.66 | 0 | 12.81 | 12.81 | 0 | 14.14 | 14.14 | 0 | |
| 266510 | 11.83 | 11.83 | 0 | 12.78 | 12.78 | 0 | 13.36 | 13.36 | 0 | 13.55 | 13.55 | 0 | 14.31 | 14.31 | 0 | |
| 266520 | 12.65 | 12.65 | 0 | 13.23 | 13.23 | 0 | 13.48 | 13.48 | 0 | 13.59 | 13.59 | 0 | 14.31 | 14.31 | 0 | |
| 266600 | 19.51 | 19.51 | 0 | 20.6 | 20.6 | 0 | 21.08 | 21.08 | 0 | 21.28 | 21.28 | 0 | 22.15 | 22.15 | 0 | |
| 266610 | 21.69 | 21.69 | 0 | 21.9 | 21.9 | 0 | 22.09 | 22.09 | 0 | 22.18 | 22.18 | 0 | 22.56 | 22.56 | 0 | |
| 266620 | 22.94 | 22.94 | 0 | 24.07 | 24.07 | 0 | 24.46 | 24.46 | 0 | 24.62 | 24.62 | 0 | 25.24 | 25.24 | 0 | |
| 266630 | 22.09 | 22.09 | 0 | 22.56 | 22.56 | 0 | 22.92 | 22.92 | 0 | 23.08 | 23.08 | 0 | 23.85 | 23.85 | 0 | |
| 266640 | 23.12 | 23.12 | 0 | 23.83 | 23.83 | 0 | 24.14 | 24.14 | 0 | 24.3 | 24.3 | 0 | 25.05 | 25.05 | 0 | |
| 266650 | 14.74 | 14.74 | 0 | 15.67 | 15.67 | 0 | 16.01 | 16.01 | 0 | 16.16 | 16.16 | 0 | 16.71 | 16.71 | 0 | |
| 266700 | 35.54 | 35.54 | 0 | 36.42 | 36.42 | 0 | 36.7 | 36.7 | 0 | 36.78 | 36.78 | 0 | 37.07 | 37.07 | 0 | |
| 266710 | 35.56 | 35.56 | 0 | 36.55 | 36.55 | 0 | 36.91 | 36.91 | 0 | 37.04 | 37.04 | 0 | 37.48 | 37.48 | 0 | |
| 266720 | 36.17 | 36.17 | 0 | 36.82 | 36.82 | 0 | 37.35 | 37.35 | 0 | 37.53 | 37.53 | 0 | 38.26 | 38.26 | 0 | |
| 266730 | 38.21 | 38.21 | 0 | 39.1 | 39.1 | 0 | 39.54 | 39.54 | 0 | 39.7 | 39.7 | 0 | 40.62 | 40.62 | 0 | |
| 266740 | 40.34 | 40.34 | 0 | 40.87 | 40.87 | 0 | 41.1 | 41.1 | 0 | 41.19 | 41.19 | 0 | 41.47 | 41.47 | 0 | |
| 266750 | 40.28 | 40.28 | 0 | 40.35 | 40.35 | 0 | 40.4 | 40.4 | 0 | 40.53 | 40.53 | 0 | 41.49 | 41.49 | 0 | |
| 266760 | 40.28 | 40.28 | 0 | 40.35 | 40.35 | 0 | 40.4 | 40.4 | 0 | 40.53 | 40.53 | 0 | 41.46 | 41.46 | 0 | |
| 266770 | 32.03 | 32.03 | 0 | 33.57 | 33.57 | 0 | 33.75 | 33.75 | 0 | 33.8 | 33.8 | 0 | 34.22 | 34.22 | 0 | |
| 266810 | 1.72 | 1.72 | 0 | 1.82 | 1.82 | 0 | 1.88 | 1.88 | 0 | 1.92 | 1.92 | 0 | 2.1 | 2.1 | 0 | |
| 270005 | 3.43 | 3.43 | 0 | 3.91 | 3.91 | 0 | 4.15 | 4.15 | 0 | 4.27 | 4.27 | 0 | 4.8 | 4.8 | 0 | |
| 270010 | 3.45 | 3.45 | 0 | 3.92 | 3.92 | 0 | 4.16 | 4.16 | 0 | 4.28 | 4.28 | 0 | 4.8 | 4.8 | 0 | |
| 270020 | 6.49 | 6.49 | 0 | 7.71 | 7.71 | 0 | 7.97 | 7.97 | 0 | 8.08 | 8.08 | 0 | 8.53 | 8.53 | 0 | |
| 270030 | 4.62 | 4.62 | 0 | 5.04 | 5.04 | 0 | 5.18 | 5.18 | 0 | 5.24 | 5.24 | 0 | 5.53 | 5.53 | 0 | |
| 270040 | 4.97 | 4.97 | 0 | 6.64 | 6.64 | 0 | 7.46 | 7.46 | 0 | 7.75 | 7.75 | 0 | 8.94 | 8.94 | 0 | |
| 270050 | 5.85 | 5.85 | 0 | 6.99 | 6.99 | 0 | 7.55 | 7.55 | 0 | 7.81 | 7.81 | 0 | 8.96 | 8.96 | 0 | |
| 270060 | 5.43 | 5.43 | 0 | 5.94 | 5.94 | 0 | 6.17 | 6.17 | 0 | 6.26 | 6.26 | 0 | 6.6 | 6.6 | 0 | |
| 270070 | 6.17 | 6.17 | 0 | 6.89 | 6.89 | 0 | 7.19 | 7.19 | 0 | 7.32 | 7.32 | 0 | 7.87 | 7.87 | 0 | |
| 270080 | 6.28 | 6.28 | 0 | 6.98 | 6.98 | 0 | 7.28 | 7.28 | 0 | 7.41 | 7.41 | 0 | 7.95 | 7.95 | 0 | |
| 280010 | 2.21 | 2.21 | 0 | 3.23 | 3.23 | 0 | 3.72 | 3.72 | 0 | 3.93 | 3.93 | 0 | 4.71 | 4.71 | 0 | |
| 280020 | 2.84 | 2.84 | 0 | 4.26 | 4.26 | 0 | 4.85 | 4.85 | 0 | 5.09 | 5.09 | 0 | 5.98 | 5.98 | 0 | |
| 280030 | 3.5 | 3.5 | 0 | 5.09 | 5.09 | 0 | 5.71 | 5.71 | 0 | 5.96 | 5.96 | 0 | 6.89 | 6.89 | 0 | |
| 280040 | 3.5 | 3.5 | 0 | 5.11 | 5.11 | 0 | 5.74 | 5.74 | 0 | 6 | 6 | 0 | 6.96 | 6.96 | 0 | |
| 280050 | 3.63 | 3.63 | 0 | 5.3 | 5.3 | 0 | 5.95 | 5.95 | 0 | 6.21 | 6.21 | 0 | 7.2 | 7.2 | 0 | |
| 280060 | 3.63 | 3.63 | 0 | 5.32 | 5.32 | 0 | 5.98 | 5.98 | 0 | 6.25 | 6.25 | 0 | 7.25 | 7.25 | 0 | |
| 280070 | 3.66 | 3.66 | 0 | 5.46 | 5.46 | 0 | 6.2 | 6.2 | 0 | 6.51 | 6.51 | 0 | 7.72 | 7.72 | 0 | |
| 280080 | 4.26 | 4.26 | 0 | 5.84 | 5.84 | 0 | 6.52 | 6.52 | 0 | 6.83 | 6.83 | 0 | 8.05 | 8.05 | 0 | |
| 280090 | 4.28 | 4.28 | 0 | 5.86 | 5.86 | 0 | 6.54 | 6.54 | 0 | 6.85 | 6.85 | 0 | 8.1 | 8.1 | 0 | |
| 280100 | 6.2 | 6.2 | 0 | 7.02 | 7.02 | 0 | 7.44 | 7.44 | 0 | 7.66 | 7.66 | 0 | 8.64 | 8.64 | 0 | |
| 280110 | 6.21 | 6.21 | 0 | 7.03 | 7.03 | 0 | 7.46 | 7.46 | 0 | 7.67 | 7.67 | 0 | 8.65 | 8.65 | 0 | |
| 280120 | 7.31 | 7.31 | 0 | 8.22 | 8.22 | 0 | 8.61 | 8.61 | 0 | 8.8 | 8.8 | 0 | 9.65 | 9.65 | 0 | |
| 280130 | 8.91 | 8.91 | 0 | 10.46 | 10.46 | 0 | 11.1 | 11.1 | 0 | 11.39 | 11.39 | 0 | 12.64 | 12.64 | 0 | |
| 280140 | 9.34 | 9.34 | 0 | 10.68 | 10.68 | 0 | 11.27 | 11.27 | 0 | 11.53 | 11.53 | 0 | 12.72 | 12.72 | 0 | |
| 280150 | 9.45 | 9.45 | 0 | 10.74 | 10.74 | 0 | 11.31 | 11.31 | 0 | 11.57 | 11.57 | 0 | 12.74 | 12.74 | 0 | |
| 280160 | 9.5 | 9.5 | 0 | 10.78 | 10.78 | 0 | 11.34 | 11.34 | 0 | 11.6 | 11.6 | 0 | 12.76 | 12.76 | 0 | |
| 280170 | 10.58 | 10.58 | 0 | 11.16 | 11.16 | 0 | 11.55 | 11.55 | 0 | 11.76 | 11.76 | 0 | 12.81 | 12.81 | 0 | |
| 280180 | 10.58 | 10.58 | 0 | 11.16 | 11.16 | 0 | 11.55 | 11.55 | 0 | 11.76 | 11.76 | 0 | 12.81 | 12.81 | 0 | |
| 280190 | 11.7 | 11.7 | 0 | 12.33 | 12.33 | 0 | 12.6 | 12.6 | 0 | 12.75 | 12.75 | 0 | 13.47 | 13.47 | 0 | |
| 280200 | 11.7 | 11.7 | 0 | 12.33 | 12.33 | 0 | 12.6 | 12.6 | 0 | 12.75 | 12.75 | 0 | 13.47 | 13.47 | 0 | |
| 280210 | 12.07 | 12.07 | 0 | 13.23 | 13.23 | 0 | 13.73 | 13.73 | 0 | 13.99 | 13.99 | 0 | 15.14 | 15.14 | 0 | |
| 280220 | 12.19 | 12.19 | 0 | 13.46 | 13.46 | 0 | 14.01 | 14.01 | 0 | 14.29 | 14.29 | 0 | 15.54 | 15.54 | 0 | |
| 280230 | 12.75 | 12.75 | 0 | 14.17 | 14.17 | 0 | 14.74 | 14.74 | 0 | 15 | 15 | 0 | 16.12 | 16.12 | 0 | |
| 280240 | 13.15 | 13.15 | 0 | 14.62 | 14.62 | 0 | 15.21 | 15.21 | 0 | 15.47 | 15.47 | 0 | 16.6 | 16.6 | 0 | |
| 280250 | 14.27 | 14.27 | 0 | 15.72 | 15.72 | 0 | 16.32 | 16.32 | 0 | 16.59 | 16.59 | 0 | 17.75 | 17.75 | 0 | |
| 280260 | 15.28 | 15.28 | 0 | 16.69 | 16.69 | 0 | 17.3 | 17.3 | 0 | 17.57 | 17.57 | 0 | 18.74 | 18.74 | 0 | |
| 280270 | 15.71 | 15.71 | 0 | 17.14 | 17.14 | 0 | 17.78 | 17.78 | 0 | 18.06 | 18.06 | 0 | 19.22 | 19.22 | 0 | |
| 280280 | 15.73 | 15.73 | 0 | 17.19 | 17.19 | 0 | 17.86 | 17.86 | 0 | 18.15 | 18.15 | 0 | 19.4 | 19.4 | 0 | |
| 280290 | 17.24 | 17.24 | 0 | 18.51 | 18.51 | 0 | 19.11 | 19.11 | 0 | 19.39 | 19.39 | 0 | 20.5 | 20.5 | 0 | |
| 280300 | 17.25 | 17.25 | 0 | 18.55 | 18.55 | 0 | 19.17 | 19.17 | 0 | 19.45 | 19.45 | 0 | 20.63 | 20.63 | 0 | |
| 280310 | 17.76 | 17.76 | 0 | 19.12 | 19.12 | 0 | 19.79 | 19.79 | 0 | 20.09 | 20.09 | 0 | 21.28 | 21.28 | 0 | |
| 280320 | 17.76 | 17.76 | 0 | 19.13 | 19.13 | 0 | 19.81 | 19.81 | 0 | 20.11 | 20.11 | 0 | 21.3 | 21.3 | 0 | |
| 280330 | 18.08 | 18.08 | 0 | 19.51 | 19.51 | 0 | 20.22 | 20.22 | 0 | 20.52 | 20.52 | 0 | 21.7 | 21.7 | 0 | |
| 280340 | 18.1 | 18.1 | 0 | 19.57 | 19.57 | 0 | 20.31 | 20.31 | 0 | 20.64 | 20.64 | 0 | 21.92 | 21.92 | 0 | |
| 280350 | 18.48 | 18.48 | 0 | 20 | 20 | 0 | 20.67 | 20.67 | 0 | 20.97 | 20.97 | 0 | 22.19 | 22.19 | 0 | |
| 280360 | 18.92 | 18.92 | 0 | 20.48 | 20.48 | 0 | 21.08 | 21.08 | 0 | 21.35 | 21.35 | 0 | 22.52 | 22.52 | 0 | |
| 280370 | 18.95 | 18.95 | 0 | 20.51 | 20.51 | 0 | 21.09 | 21.09 | 0 | 21.37 | 21.37 | 0 | 22.54 | 22.54 | 0 | |
| 280380 | 19.01 | 19.01 | 0 | 20.56 | 20.56 | 0 | 21.12 | 21.12 | 0 | 21.39 | 21.39 | 0 | 22.56 | 22.56 | 0 | |
| 280390 | 19.02 | 19.02 | 0 | 20.62 | 20.62 | 0 | 21.23 | 21.23 | 0 | 21.52 | 21.52 | 0 | 22.7 | 22.7 | 0 | |
| 280400 | 21.74 | 21.74 | 0 | 22.77 | 22.77 | 0 | 23.09 | 23.09 | 0 | 23.2 | 23.2 | 0 | 23.79 | 23.79 | 0 | |
| 280410 | 22.47 | 22.47 | 0 | 23.72 | 23.72 | 0 | 23.98 | 23.98 | 0 | 24.05 | 24.05 | 0 | 24.51 | 24.51 | 0 | |
| 280420 | 22.69 | 22.69 | 0 | 23.72 | 23.72 | 0 | 23.97 | 23.97 | 0 | 24.04 | 24.04 | 0 | 24.49 | 24.49 | 0 | |
| 280430 | 22.87 | 22.87 | 0 | 23.73 | 23.73 | 0 | 23.95 | 23.95 | 0 | 24.02 | 24.02 | 0 | 24.41 | 24.41 | 0 | |
| 280440 | 22.95 | 22.95 | 0 | 23.73 | 23.73 | 0 | 23.95 | 23.95 | 0 | 24.01 | 24.01 | 0 | 24.4 | 24.4 | 0 | |
| 280450 | 23.64 | 23.64 | 0 | 23.87 | 23.87 | 0 | 23.98 | 23.98 | 0 | 24.03 | 24.03 | 0 | 24.28 | 24.28 | 0 | |
| 280460 | 24.61 | 24.61 | 0 | 25.07 | 25.07 | 0 | 25.3 | 25.3 | 0 | 25.42 | 25.42 | 0 | 26.01 | 26.01 | 0 | |
| 280470 | 24.83 | 24.83 | 0 | 25.21 | 25.21 | 0 | 25.42 | 25.42 | 0 | 25.54 | 25.54 | 0 | 26.11 | 26.11 | 0 | |
| 280480 | 31.36 | 31.36 | 0 | 31.84 | 31.84 | 0 | 32.13 | 32.13 | 0 | 32.25 | 32.25 | 0 | 32.8 | 32.8 | 0 | |
| 280490 | 31.7 | 31.7 | 0 | 32.12 | 32.12 | 0 | 32.26 | 32.26 | 0 | 32.34 | 32.34 | 0 | 32.83 | 32.83 | 0 | |
| 280500 | 5.59 | 5.59 | 0 | 7.23 | 7.23 | 0 | 8.08 | 8.08 | 0 | 8.48 | 8.48 | 0 | 10.44 | 10.44 | 0 | |
| 280510 | 180.8 | 180.8 | 0 | 181.12 | 181.12 | 0 | 181.29 | 181.29 | 0 | 181.3 | | | | | | |

Summary of Corrected and Revised Stages for Bridge Culvert

| Node | 2.33YR24HR | | | 25YR24HR | | | 50YR24HR | | | 100YR24HR | | | 500YR24HR | | | Notes |
|--------|--------------------------------|---------------------|-----------------|--------------------------------|---------------------|-----------------|--------------------------------|---------------------|-----------------|--------------------------------|---------------------|-----------------|--------------------------------|---------------------|-----------------|-------|
| | Corrected Effective Stage (ft) | Proposed Stage (ft) | Difference (ft) | Corrected Effective Stage (ft) | Proposed Stage (ft) | Difference (ft) | Corrected Effective Stage (ft) | Proposed Stage (ft) | Difference (ft) | Corrected Effective Stage (ft) | Proposed Stage (ft) | Difference (ft) | Corrected Effective Stage (ft) | Proposed Stage (ft) | Difference (ft) | |
| 280550 | 4.45 | 4.45 | 0 | 5.66 | 5.66 | 0 | 6.22 | 6.22 | 0 | 6.53 | 6.53 | 0 | 7.74 | 7.74 | 0 | |
| 280560 | 5.6 | 5.6 | 0 | 7.05 | 7.05 | 0 | 7.65 | 7.65 | 0 | 7.92 | 7.92 | 0 | 9.17 | 9.17 | 0 | |
| 280600 | 16.07 | 16.07 | 0 | 16.49 | 16.49 | 0 | 16.73 | 16.73 | 0 | 16.86 | 16.86 | 0 | 17.49 | 17.49 | 0 | |
| 280610 | 8.95 | 8.95 | 0 | 9.43 | 9.43 | 0 | 9.7 | 9.7 | 0 | 9.84 | 9.84 | 0 | 10.55 | 10.55 | 0 | |
| 280620 | 90.74 | 90.74 | 0 | 91.16 | 91.16 | 0 | 91.39 | 91.39 | 0 | 91.51 | 91.51 | 0 | 92.13 | 92.13 | 0 | |
| 280630 | 7.31 | 7.31 | 0 | 8.22 | 8.22 | 0 | 8.59 | 8.59 | 0 | 8.77 | 8.77 | 0 | 9.61 | 9.61 | 0 | |
| 280640 | 7.31 | 7.31 | 0 | 8.22 | 8.22 | 0 | 8.61 | 8.61 | 0 | 8.8 | 8.8 | 0 | 9.65 | 9.65 | 0 | |
| 280650 | 7.31 | 7.31 | 0 | 8.22 | 8.22 | 0 | 8.61 | 8.61 | 0 | 8.8 | 8.8 | 0 | 9.65 | 9.65 | 0 | |
| 280660 | 7.31 | 7.31 | 0 | 8.22 | 8.22 | 0 | 8.61 | 8.61 | 0 | 8.8 | 8.8 | 0 | 9.65 | 9.65 | 0 | |
| 280670 | 7.31 | 7.31 | 0 | 8.22 | 8.22 | 0 | 8.61 | 8.61 | 0 | 8.8 | 8.8 | 0 | 9.65 | 9.65 | 0 | |
| 280680 | 9.34 | 9.34 | 0 | 10.68 | 10.68 | 0 | 11.27 | 11.27 | 0 | 11.53 | 11.53 | 0 | 12.72 | 12.72 | 0 | |
| 280690 | 9.34 | 9.34 | 0 | 10.68 | 10.68 | 0 | 11.27 | 11.27 | 0 | 11.53 | 11.53 | 0 | 12.72 | 12.72 | 0 | |
| 280700 | 9.34 | 9.34 | 0 | 10.68 | 10.68 | 0 | 11.27 | 11.27 | 0 | 11.53 | 11.53 | 0 | 12.72 | 12.72 | 0 | |
| 280710 | 9.34 | 9.34 | 0 | 10.68 | 10.68 | 0 | 11.27 | 11.27 | 0 | 11.53 | 11.53 | 0 | 12.72 | 12.72 | 0 | |
| 280720 | 9.45 | 9.45 | 0 | 10.74 | 10.74 | 0 | 11.31 | 11.31 | 0 | 11.57 | 11.57 | 0 | 12.74 | 12.74 | 0 | |
| 280730 | 9.5 | 9.5 | 0 | 10.78 | 10.78 | 0 | 11.34 | 11.34 | 0 | 11.6 | 11.6 | 0 | 12.76 | 12.76 | 0 | |
| 280740 | 9.5 | 9.5 | 0 | 10.78 | 10.78 | 0 | 11.34 | 11.34 | 0 | 11.6 | 11.6 | 0 | 12.76 | 12.76 | 0 | |
| 280800 | 9.5 | 9.5 | 0 | 10.78 | 10.78 | 0 | 11.35 | 11.35 | 0 | 11.61 | 11.61 | 0 | 12.76 | 12.76 | 0 | |
| 280810 | 9.5 | 9.5 | 0 | 10.78 | 10.78 | 0 | 11.35 | 11.35 | 0 | 11.61 | 11.61 | 0 | 12.76 | 12.76 | 0 | |
| 280820 | 9.5 | 9.5 | 0 | 10.78 | 10.78 | 0 | 11.35 | 11.35 | 0 | 11.61 | 11.61 | 0 | 12.76 | 12.76 | 0 | |
| 280830 | 9.44 | 9.44 | 0 | 10.74 | 10.74 | 0 | 11.32 | 11.32 | 0 | 11.58 | 11.58 | 0 | 12.75 | 12.75 | 0 | |
| 280840 | 9.3 | 9.3 | 0 | 9.76 | 9.76 | 0 | 10.17 | 10.17 | 0 | 10.44 | 10.44 | 0 | 11.3 | 11.3 | 0 | |
| 280850 | 10.28 | 10.28 | 0 | 10.78 | 10.78 | 0 | 11.35 | 11.35 | 0 | 11.61 | 11.61 | 0 | 12.76 | 12.76 | 0 | |
| 280860 | 9.68 | 9.68 | 0 | 10.78 | 10.78 | 0 | 11.35 | 11.35 | 0 | 11.61 | 11.61 | 0 | 12.76 | 12.76 | 0 | |
| 280870 | 9.5 | 9.5 | 0 | 10.85 | 10.85 | 0 | 11.44 | 11.44 | 0 | 11.71 | 11.71 | 0 | 12.85 | 12.85 | 0 | |
| 280880 | 9.52 | 9.52 | 0 | 10.94 | 10.94 | 0 | 11.57 | 11.57 | 0 | 11.85 | 11.85 | 0 | 13.01 | 13.01 | 0 | |
| 280890 | 9.67 | 9.67 | 0 | 10.86 | 10.86 | 0 | 11.45 | 11.45 | 0 | 11.72 | 11.72 | 0 | 12.86 | 12.86 | 0 | |
| 280900 | 9.96 | 9.96 | 0 | 11.72 | 11.72 | 0 | 11.96 | 11.96 | 0 | 12.05 | 12.05 | 0 | 12.86 | 12.86 | 0 | |
| 281000 | 11.7 | 11.7 | 0 | 12.27 | 12.27 | 0 | 12.47 | 12.47 | 0 | 12.58 | 12.58 | 0 | 13.08 | 13.08 | 0 | |
| 281010 | 11.7 | 11.7 | 0 | 12.27 | 12.27 | 0 | 12.48 | 12.48 | 0 | 12.58 | 12.58 | 0 | 13.06 | 13.06 | 0 | |
| 281020 | 11.7 | 11.7 | 0 | 12.44 | 12.44 | 0 | 12.7 | 12.7 | 0 | 12.83 | 12.83 | 0 | 13.34 | 13.34 | 0 | |
| 281030 | 11.89 | 11.89 | 0 | 12.85 | 12.85 | 0 | 13.13 | 13.13 | 0 | 13.24 | 13.24 | 0 | 13.79 | 13.79 | 0 | |
| 281040 | 12.45 | 12.45 | 0 | 13.43 | 13.43 | 0 | 13.71 | 13.71 | 0 | 13.83 | 13.83 | 0 | 14.39 | 14.39 | 0 | |
| 281050 | 12.59 | 12.59 | 0 | 13.58 | 13.58 | 0 | 13.87 | 13.87 | 0 | 13.99 | 13.99 | 0 | 14.56 | 14.56 | 0 | |
| 281060 | 12.61 | 12.61 | 0 | 13.58 | 13.58 | 0 | 13.87 | 13.87 | 0 | 13.99 | 13.99 | 0 | 14.56 | 14.56 | 0 | |
| 281070 | 12.64 | 12.64 | 0 | 13.59 | 13.59 | 0 | 13.87 | 13.87 | 0 | 13.99 | 13.99 | 0 | 14.56 | 14.56 | 0 | |
| 281080 | 11.68 | 11.68 | 0 | 12.17 | 12.17 | 0 | 12.37 | 12.37 | 0 | 12.49 | 12.49 | 0 | 13.26 | 13.26 | 0 | |
| 281090 | 11.68 | 11.68 | 0 | 12.17 | 12.17 | 0 | 12.37 | 12.37 | 0 | 12.49 | 12.49 | 0 | 13.26 | 13.26 | 0 | |
| 281100 | 11.69 | 11.69 | 0 | 12.22 | 12.22 | 0 | 12.44 | 12.44 | 0 | 12.57 | 12.57 | 0 | 13.32 | 13.32 | 0 | |
| 281110 | 11.68 | 11.68 | 0 | 12.2 | 12.2 | 0 | 12.41 | 12.41 | 0 | 12.54 | 12.54 | 0 | 13.3 | 13.3 | 0 | |
| 281120 | 11.67 | 11.67 | 0 | 12.11 | 12.11 | 0 | 12.29 | 12.29 | 0 | 12.41 | 12.41 | 0 | 13.21 | 13.21 | 0 | |
| 281130 | 11.66 | 11.66 | 0 | 12.06 | 12.06 | 0 | 12.22 | 12.22 | 0 | 12.35 | 12.35 | 0 | 13.16 | 13.16 | 0 | |
| 281140 | 11.49 | 11.49 | 0 | 11.56 | 11.56 | 0 | 11.67 | 11.67 | 0 | 11.85 | 11.85 | 0 | 13.01 | 13.01 | 0 | |
| 281150 | 11.66 | 11.66 | 0 | 12.41 | 12.41 | 0 | 12.65 | 12.65 | 0 | 12.77 | 12.77 | 0 | 13.25 | 13.25 | 0 | |
| 281160 | 12.31 | 12.31 | 0 | 12.55 | 12.55 | 0 | 12.71 | 12.71 | 0 | 12.8 | 12.8 | 0 | 13.26 | 13.26 | 0 | |
| 281170 | 11.66 | 11.66 | 0 | 12.06 | 12.06 | 0 | 12.5 | 12.5 | 0 | 12.63 | 12.63 | 0 | 13.17 | 13.17 | 0 | |
| 281180 | 12.17 | 12.17 | 0 | 12.47 | 12.47 | 0 | 12.59 | 12.59 | 0 | 12.68 | 12.68 | 0 | 13.18 | 13.18 | 0 | |
| 281190 | 11.66 | 11.66 | 0 | 12.45 | 12.45 | 0 | 12.72 | 12.72 | 0 | 12.83 | 12.83 | 0 | 13.27 | 13.27 | 0 | |
| 281200 | 12.32 | 12.32 | 0 | 12.53 | 12.53 | 0 | 12.73 | 12.73 | 0 | 12.83 | 12.83 | 0 | 13.27 | 13.27 | 0 | |
| 281210 | 11.67 | 11.67 | 0 | 12.14 | 12.14 | 0 | 12.43 | 12.43 | 0 | 12.67 | 12.67 | 0 | 14.06 | 14.06 | 0 | |
| 281220 | 11.67 | 11.67 | 0 | 12.15 | 12.15 | 0 | 12.43 | 12.43 | 0 | 12.69 | 12.69 | 0 | 14.08 | 14.08 | 0 | |
| 281230 | 11.69 | 11.69 | 0 | 12.22 | 12.22 | 0 | 12.44 | 12.44 | 0 | 12.57 | 12.57 | 0 | 13.45 | 13.45 | 0 | |
| 281240 | 12.56 | 12.56 | 0 | 12.77 | 12.77 | 0 | 12.87 | 12.87 | 0 | 12.92 | 12.92 | 0 | 13.47 | 13.47 | 0 | |
| 281250 | 9.42 | 9.42 | 0 | 11.07 | 11.07 | 0 | 12.6 | 12.6 | 0 | 12.75 | 12.75 | 0 | 13.47 | 13.47 | 0 | |
| 281300 | 12.76 | 12.76 | 0 | 14.25 | 14.25 | 0 | 14.92 | 14.92 | 0 | 15.2 | 15.2 | 0 | 16.33 | 16.33 | 0 | |
| 281310 | 12.76 | 12.76 | 0 | 14.26 | 14.26 | 0 | 14.93 | 14.93 | 0 | 15.21 | 15.21 | 0 | 16.34 | 16.34 | 0 | |
| 281315 | 12.76 | 12.76 | 0 | 14.31 | 14.31 | 0 | 15.01 | 15.01 | 0 | 15.31 | 15.31 | 0 | 16.71 | 16.71 | 0 | |
| 281320 | 16.94 | 16.94 | 0 | 16.94 | 16.94 | 0 | 16.94 | 16.94 | 0 | 16.94 | 16.94 | 0 | 17.81 | 17.81 | 0 | |
| 281330 | 18.28 | 18.28 | 0 | 18.73 | 18.73 | 0 | 18.92 | 18.92 | 0 | 19 | 19 | 0 | 19.47 | 19.47 | 0 | |
| 281340 | 18.48 | 18.48 | 0 | 19.55 | 19.55 | 0 | 19.98 | 19.98 | 0 | 20.16 | 20.16 | 0 | 20.92 | 20.92 | 0 | |
| 281350 | 20 | 20 | 0 | 20.52 | 20.52 | 0 | 20.76 | 20.76 | 0 | 20.87 | 20.87 | 0 | 21.4 | 21.4 | 0 | |
| 281360 | 18.66 | 18.66 | 0 | 19.8 | 19.8 | 0 | 20.38 | 20.38 | 0 | 20.66 | 20.66 | 0 | 21.77 | 21.77 | 0 | |
| 281370 | 18.34 | 18.34 | 0 | 19.93 | 19.93 | 0 | 20.79 | 20.79 | 0 | 21.15 | 21.15 | 0 | 22.31 | 22.31 | 0 | |
| 281380 | 19.66 | 19.66 | 0 | 20.73 | 20.73 | 0 | 21.32 | 21.32 | 0 | 21.6 | 21.6 | 0 | 22.57 | 22.57 | 0 | |
| 281390 | 19.66 | 19.66 | 0 | 20.72 | 20.72 | 0 | 21.32 | 21.32 | 0 | 21.6 | 21.6 | 0 | 22.68 | 22.68 | 0 | |
| 281400 | 19.53 | 19.53 | 0 | 20.35 | 20.35 | 0 | 20.81 | 20.81 | 0 | 21.04 | 21.04 | 0 | 22.02 | 22.02 | 0 | |
| 281410 | 12.76 | 12.76 | 0 | 14.26 | 14.26 | 0 | 14.93 | 14.93 | 0 | 15.21 | 15.21 | 0 | 16.34 | 16.34 | 0 | |
| 281420 | 13.06 | 13.06 | 0 | 17.6 | 17.6 | 0 | 18.23 | 18.23 | 0 | 18.46 | 18.46 | 0 | 19.29 | 19.29 | 0 | |
| 281430 | 12.76 | 12.76 | 0 | 14.66 | 14.66 | 0 | 15.68 | 15.68 | 0 | 16.15 | 16.15 | 0 | 18.2 | 18.2 | 0 | |
| 281440 | 13.67 | 13.67 | 0 | 15.04 | 15.04 | 0 | 15.88 | 15.88 | 0 | 16.3 | 16.3 | 0 | 18.25 | 18.25 | 0 | |
| 281450 | 13.7 | 13.7 | 0 | 15.2 | 15.2 | 0 | 16.11 | 16.11 | 0 | 16.59 | 16.59 | 0 | 18.62 | 18.62 | 0 | |
| 281455 | 13.81 | 13.81 | 0 | 15.34 | 15.34 | 0 | 16.36 | 16.36 | 0 | 16.89 | 16.89 | 0 | 18.92 | 18.92 | 0 | |
| 281460 | 14.31 | 14.31 | 0 | 15.23 | 15.23 | 0 | 16.16 | 16.16 | 0 | 16.64 | 16.64 | 0 | 18.8 | 18.8 | 0 | |
| 281470 | 18.6 | 18.6 | 0 | 19 | 19 | 0 | 19.2 | 19.2 | 0 | 19.3 | 19.3 | 0 | 19.89 | 19.89 | 0 | |
| 281480 | 19.01 | 19.01 | 0 | 19.42 | 19.42 | 0 | 19.62 | 19.62 | 0 | 19.71 | 19.71 | 0 | 20.15 | 20.15 | 0 | |
| 281490 | 19.02 | 19.02 | 0 | 19.43 | 19.43 | 0 | 19.63 | 19.63 | 0 | 19.72 | 19.72 | 0 | 20.16 | 20.16 | 0 | |
| 281500 | 18.01 | 18.01 | 0 | 18.04 | 18.04 | 0 | 18.26 | 18.26 | 0 | 18.34 | 18.34 | 0 | 18.85 | 18.85 | 0 | |
| 281510 | 18.3 | 18.3 | 0 | 19.03 | 19.03 | 0 | 19.29 | 19.29 | 0 | 19.39 | 19.39 | 0 | 19.83 | 19.83 | 0 | |
| 281520 | 17.82 | 17.82 | 0 | 18.24 | 18.24 | 0 | 18.44 | 18.44 | 0 | 18.53 | 18.53 | 0 | 19.24 | 19.24 | 0 | |
| 281600 | 12.75 | 12.75 | 0 | 14.09 | 14.09 | 0 | 14.57 | 14.57 | 0 | 14.79 | 14.79 | 0 | 15.8 | 15.8 | 0 | |
| 281610 | 12.75 | 12.75 | 0 | 14.04 | 14.04 | 0 | 14.43 | 14.43 | 0 | 14.63 | 14.63 | 0 | 15.64 | 15.64 | 0 | |
| 281620 | 12.75 | 12.75 | 0 | 13.98 | 13.98 | 0 | 14.3 | 14.3 | 0 | 14.56 | 14.56 | 0 | 15.33 | 15.33 | 0 | |
| 281630 | 12.75 | 12.75 | 0 | 13.98 | 13.98 | 0 | 14.25 | 14.25 | 0 | 14.42 | 14.42 | 0 | 14.97 | 14.97 | 0 | |
| 281640 | 12.75 | 12.75 | 0 | 13.99 | 13.99 | 0 | 14.54 | 14.54 | 0 | 14.84 | 14.84 | | | | | |

Summary of Corrected and Revised Stages for Bridge Culvert

| Node | 2.33YR24HR | | | 25YR24HR | | | 50YR24HR | | | 100YR24HR | | | 500YR24HR | | | Notes |
|--------|--------------------------------|---------------------|-----------------|--------------------------------|---------------------|-----------------|--------------------------------|---------------------|-----------------|--------------------------------|---------------------|-----------------|--------------------------------|---------------------|-----------------|-------|
| | Corrected Effective Stage (ft) | Proposed Stage (ft) | Difference (ft) | Corrected Effective Stage (ft) | Proposed Stage (ft) | Difference (ft) | Corrected Effective Stage (ft) | Proposed Stage (ft) | Difference (ft) | Corrected Effective Stage (ft) | Proposed Stage (ft) | Difference (ft) | Corrected Effective Stage (ft) | Proposed Stage (ft) | Difference (ft) | |
| 281690 | 12.75 | 12.75 | 0 | 14.35 | 14.35 | 0 | 15.31 | 15.31 | 0 | 15.59 | 15.59 | 0 | 16.45 | 16.45 | 0 | |
| 281700 | 15.99 | 15.99 | 0 | 17.14 | 17.14 | 0 | 17.43 | 17.43 | 0 | 17.55 | 17.55 | 0 | 18.06 | 18.06 | 0 | |
| 281710 | 17.22 | 17.22 | 0 | 17.52 | 17.52 | 0 | 17.68 | 17.68 | 0 | 17.76 | 17.76 | 0 | 18.17 | 18.17 | 0 | |
| 281720 | 12.75 | 12.75 | 0 | 14.83 | 14.83 | 0 | 15.8 | 15.8 | 0 | 16.08 | 16.08 | 0 | 16.89 | 16.89 | 0 | |
| 281800 | 15.29 | 15.29 | 0 | 16.69 | 16.69 | 0 | 17.3 | 17.3 | 0 | 17.57 | 17.57 | 0 | 18.74 | 18.74 | 0 | |
| 281810 | 15.3 | 15.3 | 0 | 16.7 | 16.7 | 0 | 17.3 | 17.3 | 0 | 17.57 | 17.57 | 0 | 18.74 | 18.74 | 0 | |
| 281820 | 15.32 | 15.32 | 0 | 16.7 | 16.7 | 0 | 17.3 | 17.3 | 0 | 17.57 | 17.57 | 0 | 18.74 | 18.74 | 0 | |
| 281830 | 15.32 | 15.32 | 0 | 16.7 | 16.7 | 0 | 17.3 | 17.3 | 0 | 17.57 | 17.57 | 0 | 18.74 | 18.74 | 0 | |
| 281840 | 15.48 | 15.48 | 0 | 16.72 | 16.72 | 0 | 17.3 | 17.3 | 0 | 17.57 | 17.57 | 0 | 18.72 | 18.72 | 0 | |
| 281850 | 15.55 | 15.55 | 0 | 16.82 | 16.82 | 0 | 17.42 | 17.42 | 0 | 17.69 | 17.69 | 0 | 18.88 | 18.88 | 0 | |
| 281860 | 15.55 | 15.55 | 0 | 16.83 | 16.83 | 0 | 17.43 | 17.43 | 0 | 17.72 | 17.72 | 0 | 18.98 | 18.98 | 0 | |
| 281870 | 15.89 | 15.89 | 0 | 17.04 | 17.04 | 0 | 17.63 | 17.63 | 0 | 17.92 | 17.92 | 0 | 19.17 | 19.17 | 0 | |
| 281880 | 17.45 | 17.45 | 0 | 18.46 | 18.46 | 0 | 19.11 | 19.11 | 0 | 19.44 | 19.44 | 0 | 21.14 | 21.14 | 0 | |
| 281890 | 17.97 | 17.97 | 0 | 18.83 | 18.83 | 0 | 19.43 | 19.43 | 0 | 19.75 | 19.75 | 0 | 21.73 | 21.73 | 0 | |
| 281900 | 21.06 | 21.06 | 0 | 21.47 | 21.47 | 0 | 21.68 | 21.68 | 0 | 21.77 | 21.77 | 0 | 22.27 | 22.27 | 0 | |
| 281910 | 21.38 | 21.38 | 0 | 21.79 | 21.79 | 0 | 22.01 | 22.01 | 0 | 22.11 | 22.11 | 0 | 22.63 | 22.63 | 0 | |
| 281915 | 22.03 | 22.03 | 0 | 22.91 | 22.91 | 0 | 23.87 | 23.87 | 0 | 24.13 | 24.13 | 0 | 25.01 | 25.01 | 0 | |
| 281920 | 23.09 | 23.09 | 0 | 24.49 | 24.49 | 0 | 25.07 | 25.07 | 0 | 25.33 | 25.33 | 0 | 26.36 | 26.36 | 0 | |
| 281930 | 23.09 | 23.09 | 0 | 24.49 | 24.49 | 0 | 25.07 | 25.07 | 0 | 25.33 | 25.33 | 0 | 26.36 | 26.36 | 0 | |
| 281940 | 23.15 | 23.15 | 0 | 24.21 | 24.21 | 0 | 24.61 | 24.61 | 0 | 24.7 | 24.7 | 0 | 25.71 | 25.71 | 0 | |
| 281950 | 23.52 | 23.52 | 0 | 24.18 | 24.18 | 0 | 24.52 | 24.52 | 0 | 24.66 | 24.66 | 0 | 25.7 | 25.7 | 0 | |
| 281960 | 23.53 | 23.53 | 0 | 24.18 | 24.18 | 0 | 24.51 | 24.51 | 0 | 24.66 | 24.66 | 0 | 25.7 | 25.7 | 0 | |
| 281970 | 23.57 | 23.57 | 0 | 24.21 | 24.21 | 0 | 24.52 | 24.52 | 0 | 24.69 | 24.69 | 0 | 25.98 | 25.98 | 0 | |
| 281980 | 23.97 | 23.97 | 0 | 24.23 | 24.23 | 0 | 24.52 | 24.52 | 0 | 24.7 | 24.7 | 0 | 25.99 | 25.99 | 0 | |
| 281990 | 24.02 | 24.02 | 0 | 24.24 | 24.24 | 0 | 24.52 | 24.52 | 0 | 24.71 | 24.71 | 0 | 26.02 | 26.02 | 0 | |
| 282000 | 24.29 | 24.29 | 0 | 25.17 | 25.17 | 0 | 25.72 | 25.72 | 0 | 25.83 | 25.83 | 0 | 26.21 | 26.21 | 0 | |
| 282010 | 24.3 | 24.3 | 0 | 25.22 | 25.22 | 0 | 25.92 | 25.92 | 0 | 26.1 | 26.1 | 0 | 26.77 | 26.77 | 0 | |
| 282020 | 24.61 | 24.61 | 0 | 25.32 | 25.32 | 0 | 25.99 | 25.99 | 0 | 26.16 | 26.16 | 0 | 26.82 | 26.82 | 0 | |
| 282100 | 15.45 | 15.45 | 0 | 16.7 | 16.7 | 0 | 17.3 | 17.3 | 0 | 17.57 | 17.57 | 0 | 18.74 | 18.74 | 0 | |
| 282110 | 15.46 | 15.46 | 0 | 16.7 | 16.7 | 0 | 17.3 | 17.3 | 0 | 17.57 | 17.57 | 0 | 18.74 | 18.74 | 0 | |
| 282120 | 16.15 | 16.15 | 0 | 16.9 | 16.9 | 0 | 17.4 | 17.4 | 0 | 17.68 | 17.68 | 0 | 18.91 | 18.91 | 0 | |
| 282130 | 16.6 | 16.6 | 0 | 17.48 | 17.48 | 0 | 17.89 | 17.89 | 0 | 18.07 | 18.07 | 0 | 18.84 | 18.84 | 0 | |
| 282140 | 16.7 | 16.7 | 0 | 17.67 | 17.67 | 0 | 18.15 | 18.15 | 0 | 18.37 | 18.37 | 0 | 19.2 | 19.2 | 0 | |
| 282150 | 17.19 | 17.19 | 0 | 18.39 | 18.39 | 0 | 18.88 | 18.88 | 0 | 19.09 | 19.09 | 0 | 19.8 | 19.8 | 0 | |
| 282160 | 17.19 | 17.19 | 0 | 18.4 | 18.4 | 0 | 18.89 | 18.89 | 0 | 19.1 | 19.1 | 0 | 19.82 | 19.82 | 0 | |
| 282170 | 15.81 | 15.81 | 0 | 16.72 | 16.72 | 0 | 17.3 | 17.3 | 0 | 17.57 | 17.57 | 0 | 18.72 | 18.72 | 0 | |
| 282180 | 15.24 | 15.24 | 0 | 15.45 | 15.45 | 0 | 15.58 | 15.58 | 0 | 15.67 | 15.67 | 0 | 16.13 | 16.13 | 0 | |
| 282190 | 17.46 | 17.46 | 0 | 17.92 | 17.92 | 0 | 18.07 | 18.07 | 0 | 18.13 | 18.13 | 0 | 19.17 | 19.17 | 0 | |
| 282200 | 18.87 | 18.87 | 0 | 19.48 | 19.48 | 0 | 19.67 | 19.67 | 0 | 19.75 | 19.75 | 0 | 20.02 | 20.02 | 0 | |
| 282210 | 15.85 | 15.85 | 0 | 16.83 | 16.83 | 0 | 17.44 | 17.44 | 0 | 17.72 | 17.72 | 0 | 18.98 | 18.98 | 0 | |
| 282220 | 18.13 | 18.13 | 0 | 18.5 | 18.5 | 0 | 18.71 | 18.71 | 0 | 18.83 | 18.83 | 0 | 19.77 | 19.77 | 0 | |
| 282230 | 15.9 | 15.9 | 0 | 15.9 | 15.9 | 0 | 15.9 | 15.9 | 0 | 15.9 | 15.9 | 0 | 15.9 | 15.9 | 0 | |
| 282240 | 17.35 | 17.35 | 0 | 17.62 | 17.62 | 0 | 17.72 | 17.72 | 0 | 17.92 | 17.92 | 0 | 19.17 | 19.17 | 0 | |
| 282245 | 19.41 | 19.41 | 0 | 19.98 | 19.98 | 0 | 20.25 | 20.25 | 0 | 20.38 | 20.38 | 0 | 20.97 | 20.97 | 0 | |
| 282250 | 19.39 | 19.39 | 0 | 19.98 | 19.98 | 0 | 20.25 | 20.25 | 0 | 20.38 | 20.38 | 0 | 20.97 | 20.97 | 0 | |
| 282260 | 20.33 | 20.33 | 0 | 20.65 | 20.65 | 0 | 20.79 | 20.79 | 0 | 20.84 | 20.84 | 0 | 21.14 | 21.14 | 0 | |
| 282270 | 20.34 | 20.34 | 0 | 20.7 | 20.7 | 0 | 20.87 | 20.87 | 0 | 20.95 | 20.95 | 0 | 21.32 | 21.32 | 0 | |
| 282280 | 18.54 | 18.54 | 0 | 19.85 | 19.85 | 0 | 20.45 | 20.45 | 0 | 20.73 | 20.73 | 0 | 21.77 | 21.77 | 0 | |
| 282290 | 20.89 | 20.89 | 0 | 21.16 | 21.16 | 0 | 21.3 | 21.3 | 0 | 21.36 | 21.36 | 0 | 21.68 | 21.68 | 0 | |
| 282300 | 17.69 | 17.69 | 0 | 18.08 | 18.08 | 0 | 18.23 | 18.23 | 0 | 18.3 | 18.3 | 0 | 19.36 | 19.36 | 0 | |
| 282310 | 19.37 | 19.37 | 0 | 19.92 | 19.92 | 0 | 20.09 | 20.09 | 0 | 20.18 | 20.18 | 0 | 20.59 | 20.59 | 0 | |
| 282320 | 15.89 | 15.89 | 0 | 18.01 | 18.01 | 0 | 18.67 | 18.67 | 0 | 18.92 | 18.92 | 0 | 19.82 | 19.82 | 0 | |
| 282330 | 18.23 | 18.23 | 0 | 18.69 | 18.69 | 0 | 19 | 19 | 0 | 19.17 | 19.17 | 0 | 19.88 | 19.88 | 0 | |
| 282340 | 18.42 | 18.42 | 0 | 19.59 | 19.59 | 0 | 20.16 | 20.16 | 0 | 20.42 | 20.42 | 0 | 21.43 | 21.43 | 0 | |
| 282350 | 19.18 | 19.18 | 0 | 20.25 | 20.25 | 0 | 20.71 | 20.71 | 0 | 20.92 | 20.92 | 0 | 21.57 | 21.57 | 0 | |
| 282360 | 21.15 | 21.15 | 0 | 21.65 | 21.65 | 0 | 21.86 | 21.86 | 0 | 21.95 | 21.95 | 0 | 22.36 | 22.36 | 0 | |
| 282400 | 21.53 | 21.53 | 0 | 21.73 | 21.73 | 0 | 21.85 | 21.85 | 0 | 22.05 | 22.05 | 0 | 25.21 | 25.21 | 0 | |
| 282420 | 24.07 | 24.07 | 0 | 25.16 | 25.16 | 0 | 25.64 | 25.64 | 0 | 25.87 | 25.87 | 0 | 26.88 | 26.88 | 0 | |
| 282430 | 22.69 | 22.69 | 0 | 24.29 | 24.29 | 0 | 25.07 | 25.07 | 0 | 25.33 | 25.33 | 0 | 26.36 | 26.36 | 0 | |
| 282440 | 22.29 | 22.29 | 0 | 22.98 | 22.98 | 0 | 24.12 | 24.12 | 0 | 24.71 | 24.71 | 0 | 26.05 | 26.05 | 0 | |
| 282500 | 24.07 | 24.07 | 0 | 25.16 | 25.16 | 0 | 25.64 | 25.64 | 0 | 25.87 | 25.87 | 0 | 26.88 | 26.88 | 0 | |
| 282510 | 24.09 | 24.09 | 0 | 25.2 | 25.2 | 0 | 25.76 | 25.76 | 0 | 26.02 | 26.02 | 0 | 27.05 | 27.05 | 0 | |
| 282520 | 25.53 | 25.53 | 0 | 25.7 | 25.7 | 0 | 26.04 | 26.04 | 0 | 26.26 | 26.26 | 0 | 27.18 | 27.18 | 0 | |
| 282530 | 26.01 | 26.01 | 0 | 28.71 | 28.71 | 0 | 30.27 | 30.27 | 0 | 30.36 | 30.36 | 0 | 30.66 | 30.66 | 0 | |
| 282540 | 27.69 | 27.69 | 0 | 28.92 | 28.92 | 0 | 30.36 | 30.36 | 0 | 30.52 | 30.52 | 0 | 31.08 | 31.08 | 0 | |
| 282550 | 25.45 | 25.45 | 0 | 26.04 | 26.04 | 0 | 26.44 | 26.44 | 0 | 26.62 | 26.62 | 0 | 27.52 | 27.52 | 0 | |
| 282560 | 25.95 | 25.95 | 0 | 27.77 | 27.77 | 0 | 28.29 | 28.29 | 0 | 28.47 | 28.47 | 0 | 29.01 | 29.01 | 0 | |
| 282570 | 28.25 | 28.25 | 0 | 28.71 | 28.71 | 0 | 28.85 | 28.85 | 0 | 28.9 | 28.9 | 0 | 29.15 | 29.15 | 0 | |
| 282580 | 27.37 | 27.37 | 0 | 27.56 | 27.56 | 0 | 27.54 | 27.54 | 0 | 27.53 | 27.53 | 0 | 27.86 | 27.86 | 0 | |
| 282590 | 28.57 | 28.57 | 0 | 30.4 | 30.4 | 0 | 30.75 | 30.75 | 0 | 30.93 | 30.93 | 0 | 31.53 | 31.53 | 0 | |
| 282600 | 24.08 | 24.08 | 0 | 25.17 | 25.17 | 0 | 25.65 | 25.65 | 0 | 25.88 | 25.88 | 0 | 26.89 | 26.89 | 0 | |
| 282610 | 24.43 | 24.43 | 0 | 26.31 | 26.31 | 0 | 26.49 | 26.49 | 0 | 26.57 | 26.57 | 0 | 26.89 | 26.89 | 0 | |
| 282620 | 24.09 | 24.09 | 0 | 25.43 | 25.43 | 0 | 25.97 | 25.97 | 0 | 26.2 | 26.2 | 0 | 27.18 | 27.18 | 0 | |
| 282700 | 22.94 | 22.94 | 0 | 23.58 | 23.58 | 0 | 23.84 | 23.84 | 0 | 23.95 | 23.95 | 0 | 24.4 | 24.4 | 0 | |
| 282710 | 22.85 | 22.85 | 0 | 23.53 | 23.53 | 0 | 23.82 | 23.82 | 0 | 23.94 | 23.94 | 0 | 24.4 | 24.4 | 0 | |
| 282720 | 22.61 | 22.61 | 0 | 22.78 | 22.78 | 0 | 22.96 | 22.96 | 0 | 23.08 | 23.08 | 0 | 24.35 | 24.35 | 0 | |
| 282730 | 22.34 | 22.34 | 0 | 22.53 | 22.53 | 0 | 22.85 | 22.85 | 0 | 23.04 | 23.04 | 0 | 24.34 | 24.34 | 0 | |
| 282740 | 22.29 | 22.29 | 0 | 22.4 | 22.4 | 0 | 22.85 | 22.85 | 0 | 23.04 | 23.04 | 0 | 24.32 | 24.32 | 0 | |
| 282750 | 21.97 | 21.97 | 0 | 22.36 | 22.36 | 0 | 22.85 | 22.85 | 0 | 23.04 | 23.04 | 0 | 24.32 | 24.32 | 0 | |
| 282760 | 21.8 | 21.8 | 0 | 22.14 | 22.14 | 0 | 22.31 | 22.31 | 0 | 22.73 | 22.73 | 0 | 24.34 | 24.34 | 0 | |
| 282770 | 23.43 | 23.43 | 0 | 24.18 | 24.18 | 0 | 24.51 | 24.51 | 0 | 24.66 | 24.66 | 0 | 25.7 | 25.7 | 0 | |
| 282780 | 22.73 | 22.73 | 0 | 24.24 | 24.24 | 0 | 24.52 | 24.52 | 0 | 24.71 | 24.71 | 0 | 26.02 | 26.02 | 0 | |
| 282800 | 15.28 | 15.28 | 0 | 16.7 | 16.7 | 0 | 17.32 | 17.32 | 0 | 17.6 | 17.6 | 0 | 18.82 | 18.82 | 0 | |

Summary of Corrected and Revised Stages for Bridge Culvert

| Node | 2.33YR24HR | | | 25YR24HR | | | 50YR24HR | | | 100YR24HR | | | 500YR24HR | | | Notes |
|--------|--------------------------------|---------------------|-----------------|--------------------------------|---------------------|-----------------|--------------------------------|---------------------|-----------------|--------------------------------|---------------------|-----------------|--------------------------------|---------------------|-----------------|-------|
| | Corrected Effective Stage (ft) | Proposed Stage (ft) | Difference (ft) | Corrected Effective Stage (ft) | Proposed Stage (ft) | Difference (ft) | Corrected Effective Stage (ft) | Proposed Stage (ft) | Difference (ft) | Corrected Effective Stage (ft) | Proposed Stage (ft) | Difference (ft) | Corrected Effective Stage (ft) | Proposed Stage (ft) | Difference (ft) | |
| 282860 | 19.31 | 19.31 | 0 | 19.69 | 19.69 | 0 | 19.98 | 19.98 | 0 | 20.11 | 20.11 | 0 | 21.52 | 21.52 | 0 | |
| 282870 | 20.45 | 20.45 | 0 | 21 | 21 | 0 | 21.27 | 21.27 | 0 | 21.4 | 21.4 | 0 | 21.9 | 21.9 | 0 | |
| 282880 | 20.45 | 20.45 | 0 | 21.03 | 21.03 | 0 | 21.35 | 21.35 | 0 | 21.5 | 21.5 | 0 | 23.22 | 23.22 | 0 | |
| 282890 | 21.87 | 21.87 | 0 | 22.49 | 22.49 | 0 | 22.82 | 22.82 | 0 | 22.99 | 22.99 | 0 | 23.62 | 23.62 | 0 | |
| 282900 | 18.92 | 18.92 | 0 | 19.47 | 19.47 | 0 | 19.76 | 19.76 | 0 | 19.9 | 19.9 | 0 | 20.56 | 20.56 | 0 | |
| 282910 | 19.3 | 19.3 | 0 | 19.58 | 19.58 | 0 | 19.79 | 19.79 | 0 | 19.9 | 19.9 | 0 | 20.46 | 20.46 | 0 | |
| 282920 | 19.99 | 19.99 | 0 | 20.4 | 20.4 | 0 | 20.58 | 20.58 | 0 | 20.66 | 20.66 | 0 | 21.03 | 21.03 | 0 | |
| 282930 | 20.8 | 20.8 | 0 | 21.23 | 21.23 | 0 | 21.43 | 21.43 | 0 | 21.53 | 21.53 | 0 | 22.02 | 22.02 | 0 | |
| 282940 | 18.61 | 18.61 | 0 | 18.68 | 18.68 | 0 | 19.13 | 19.13 | 0 | 19.4 | 19.4 | 0 | 20.68 | 20.68 | 0 | |
| 282950 | 19.65 | 19.65 | 0 | 20.42 | 20.42 | 0 | 20.84 | 20.84 | 0 | 21 | 21 | 0 | 21.34 | 21.34 | 0 | |
| 282960 | 17.34 | 17.34 | 0 | 18.64 | 18.64 | 0 | 19.24 | 19.24 | 0 | 19.51 | 19.51 | 0 | 20.65 | 20.65 | 0 | |
| 282970 | 18.38 | 18.38 | 0 | 19.59 | 19.59 | 0 | 20 | 20 | 0 | 20.12 | 20.12 | 0 | 20.67 | 20.67 | 0 | |
| 282980 | 18.53 | 18.53 | 0 | 19.81 | 19.81 | 0 | 20.42 | 20.42 | 0 | 20.67 | 20.67 | 0 | 21.66 | 21.66 | 0 | |
| 282990 | 18.53 | 18.53 | 0 | 19.81 | 19.81 | 0 | 20.43 | 20.43 | 0 | 20.68 | 20.68 | 0 | 21.69 | 21.69 | 0 | |
| 283000 | 17.39 | 17.39 | 0 | 18.55 | 18.55 | 0 | 19.17 | 19.17 | 0 | 19.46 | 19.46 | 0 | 20.63 | 20.63 | 0 | |
| 283010 | 17.79 | 17.79 | 0 | 18.7 | 18.7 | 0 | 19.17 | 19.17 | 0 | 19.46 | 19.46 | 0 | 20.63 | 20.63 | 0 | |
| 283020 | 18.05 | 18.05 | 0 | 19.22 | 19.22 | 0 | 19.97 | 19.97 | 0 | 20.31 | 20.31 | 0 | 21.68 | 21.68 | 0 | |
| 283030 | 18.39 | 18.39 | 0 | 19.56 | 19.56 | 0 | 20.17 | 20.17 | 0 | 20.43 | 20.43 | 0 | 21.68 | 21.68 | 0 | |
| 283100 | 19.43 | 19.43 | 0 | 20.19 | 20.19 | 0 | 20.38 | 20.38 | 0 | 20.68 | 20.68 | 0 | 21.95 | 21.95 | 0 | |
| 283110 | 20.59 | 20.59 | 0 | 21.21 | 21.21 | 0 | 21.49 | 21.49 | 0 | 21.61 | 21.61 | 0 | 22.18 | 22.18 | 0 | |
| 283120 | 22.2 | 22.2 | 0 | 22.63 | 22.63 | 0 | 22.85 | 22.85 | 0 | 22.96 | 22.96 | 0 | 23.42 | 23.42 | 0 | |
| 283130 | 21.43 | 21.43 | 0 | 21.84 | 21.84 | 0 | 22.03 | 22.03 | 0 | 22.11 | 22.11 | 0 | 22.42 | 22.42 | 0 | |
| 283200 | 18.59 | 18.59 | 0 | 20.07 | 20.07 | 0 | 20.48 | 20.48 | 0 | 20.73 | 20.73 | 0 | 21.95 | 21.95 | 0 | |
| 283210 | 18.75 | 18.75 | 0 | 20.07 | 20.07 | 0 | 20.48 | 20.48 | 0 | 20.73 | 20.73 | 0 | 21.95 | 21.95 | 0 | |
| 283220 | 19.25 | 19.25 | 0 | 20.2 | 20.2 | 0 | 20.68 | 20.68 | 0 | 20.97 | 20.97 | 0 | 22.19 | 22.19 | 0 | |
| 283230 | 19.77 | 19.77 | 0 | 20.65 | 20.65 | 0 | 21.31 | 21.31 | 0 | 21.58 | 21.58 | 0 | 22.9 | 22.9 | 0 | |
| 283240 | 19.81 | 19.81 | 0 | 20.65 | 20.65 | 0 | 21.31 | 21.31 | 0 | 21.59 | 21.59 | 0 | 22.9 | 22.9 | 0 | |
| 283250 | 20.85 | 20.85 | 0 | 21.05 | 21.05 | 0 | 21.4 | 21.4 | 0 | 21.59 | 21.59 | 0 | 22.9 | 22.9 | 0 | |
| 283260 | 21.37 | 21.37 | 0 | 21.84 | 21.84 | 0 | 22.01 | 22.01 | 0 | 22.06 | 22.06 | 0 | 22.27 | 22.27 | 0 | |
| 283300 | 19.07 | 19.07 | 0 | 20.64 | 20.64 | 0 | 21.22 | 21.22 | 0 | 21.49 | 21.49 | 0 | 22.65 | 22.65 | 0 | |
| 283310 | 19.51 | 19.51 | 0 | 21.18 | 21.18 | 0 | 21.88 | 21.88 | 0 | 22.16 | 22.16 | 0 | 23.22 | 23.22 | 0 | |
| 283320 | 21.2 | 21.2 | 0 | 22.15 | 22.15 | 0 | 22.56 | 22.56 | 0 | 22.73 | 22.73 | 0 | 23.46 | 23.46 | 0 | |
| 283330 | 21.22 | 21.22 | 0 | 22.27 | 22.27 | 0 | 22.75 | 22.75 | 0 | 22.96 | 22.96 | 0 | 23.94 | 23.94 | 0 | |
| 283340 | 21.47 | 21.47 | 0 | 23.54 | 23.54 | 0 | 24.69 | 24.69 | 0 | 25.11 | 25.11 | 0 | 26.62 | 26.62 | 0 | |
| 283350 | 25.77 | 25.77 | 0 | 26.38 | 26.38 | 0 | 26.63 | 26.63 | 0 | 26.76 | 26.76 | 0 | 27.46 | 27.46 | 0 | |
| 283360 | 28.49 | 28.49 | 0 | 29.56 | 29.56 | 0 | 29.77 | 29.77 | 0 | 29.85 | 29.85 | 0 | 30.23 | 30.23 | 0 | |
| 283370 | 31.66 | 31.66 | 0 | 36.46 | 36.46 | 0 | 37.79 | 37.79 | 0 | 38.04 | 38.04 | 0 | 39.7 | 39.7 | 0 | |
| 283380 | 35.83 | 35.83 | 0 | 36.65 | 36.65 | 0 | 37.93 | 37.93 | 0 | 38.23 | 38.23 | 0 | 40.41 | 40.41 | 0 | |
| 283390 | 36.86 | 36.86 | 0 | 38.45 | 38.45 | 0 | 39.3 | 39.3 | 0 | 39.61 | 39.61 | 0 | 40.45 | 40.45 | 0 | |
| 283400 | 21.83 | 21.83 | 0 | 23.19 | 23.19 | 0 | 23.55 | 23.55 | 0 | 23.71 | 23.71 | 0 | 24.33 | 24.33 | 0 | |
| 283410 | 22.39 | 22.39 | 0 | 23.35 | 23.35 | 0 | 23.66 | 23.66 | 0 | 23.79 | 23.79 | 0 | 24.37 | 24.37 | 0 | |
| 283420 | 21.22 | 21.22 | 0 | 22.27 | 22.27 | 0 | 22.75 | 22.75 | 0 | 22.97 | 22.97 | 0 | 23.94 | 23.94 | 0 | |
| 283430 | 21.22 | 21.22 | 0 | 22.27 | 22.27 | 0 | 22.75 | 22.75 | 0 | 22.97 | 22.97 | 0 | 23.94 | 23.94 | 0 | |
| 283440 | 21.22 | 21.22 | 0 | 22.27 | 22.27 | 0 | 22.63 | 22.63 | 0 | 22.73 | 22.73 | 0 | 23.02 | 23.02 | 0 | |
| 283450 | 21.22 | 21.22 | 0 | 22.27 | 22.27 | 0 | 22.62 | 22.62 | 0 | 22.72 | 22.72 | 0 | 23 | 23 | 0 | |
| 283460 | 21.22 | 21.22 | 0 | 22.27 | 22.27 | 0 | 22.75 | 22.75 | 0 | 22.97 | 22.97 | 0 | 23.94 | 23.94 | 0 | |
| 283470 | 21.25 | 21.25 | 0 | 22.32 | 22.32 | 0 | 22.75 | 22.75 | 0 | 22.97 | 22.97 | 0 | 23.94 | 23.94 | 0 | |
| 283480 | 21.22 | 21.22 | 0 | 22.27 | 22.27 | 0 | 22.75 | 22.75 | 0 | 22.96 | 22.96 | 0 | 23.94 | 23.94 | 0 | |
| 283490 | 21.22 | 21.22 | 0 | 22.27 | 22.27 | 0 | 22.75 | 22.75 | 0 | 22.96 | 22.96 | 0 | 23.94 | 23.94 | 0 | |
| 283500 | 21.23 | 21.23 | 0 | 22.29 | 22.29 | 0 | 22.77 | 22.77 | 0 | 22.97 | 22.97 | 0 | 23.96 | 23.96 | 0 | |
| 283510 | 21.23 | 21.23 | 0 | 22.29 | 22.29 | 0 | 22.77 | 22.77 | 0 | 22.97 | 22.97 | 0 | 23.96 | 23.96 | 0 | |
| 283520 | 21.25 | 21.25 | 0 | 22.32 | 22.32 | 0 | 22.83 | 22.83 | 0 | 23.03 | 23.03 | 0 | 24.3 | 24.3 | 0 | |
| 283530 | 21.61 | 21.61 | 0 | 22.34 | 22.34 | 0 | 22.84 | 22.84 | 0 | 23.03 | 23.03 | 0 | 24.3 | 24.3 | 0 | |
| 283540 | 22.63 | 22.63 | 0 | 23.07 | 23.07 | 0 | 23.33 | 23.33 | 0 | 23.45 | 23.45 | 0 | 23.98 | 23.98 | 0 | |
| 283550 | 21.22 | 21.22 | 0 | 22.27 | 22.27 | 0 | 22.75 | 22.75 | 0 | 22.97 | 22.97 | 0 | 23.94 | 23.94 | 0 | |
| 283560 | 19.08 | 19.08 | 0 | 20.67 | 20.67 | 0 | 21.27 | 21.27 | 0 | 21.55 | 21.55 | 0 | 22.72 | 22.72 | 0 | |
| 283600 | 22.44 | 22.44 | 0 | 23.41 | 23.41 | 0 | 23.79 | 23.79 | 0 | 23.94 | 23.94 | 0 | 24.57 | 24.57 | 0 | |
| 283610 | 24.97 | 24.97 | 0 | 25.31 | 25.31 | 0 | 25.48 | 25.48 | 0 | 25.55 | 25.55 | 0 | 25.87 | 25.87 | 0 | |
| 283620 | 24.98 | 24.98 | 0 | 25.45 | 25.45 | 0 | 25.6 | 25.6 | 0 | 25.67 | 25.67 | 0 | 25.97 | 25.97 | 0 | |
| 283630 | 25.02 | 25.02 | 0 | 25.51 | 25.51 | 0 | 25.65 | 25.65 | 0 | 25.72 | 25.72 | 0 | 25.99 | 25.99 | 0 | |
| 283640 | 25.14 | 25.14 | 0 | 25.72 | 25.72 | 0 | 25.88 | 25.88 | 0 | 25.94 | 25.94 | 0 | 26.21 | 26.21 | 0 | |
| 283650 | 23.86 | 23.86 | 0 | 24.04 | 24.04 | 0 | 24.12 | 24.12 | 0 | 24.16 | 24.16 | 0 | 24.58 | 24.58 | 0 | |
| 283660 | 24.68 | 24.68 | 0 | 25.43 | 25.43 | 0 | 25.71 | 25.71 | 0 | 25.83 | 25.83 | 0 | 26.33 | 26.33 | 0 | |
| 283670 | 23.03 | 23.03 | 0 | 23.6 | 23.6 | 0 | 23.75 | 23.75 | 0 | 23.89 | 23.89 | 0 | 24.58 | 24.58 | 0 | |
| 283680 | 23.22 | 23.22 | 0 | 23.86 | 23.86 | 0 | 24.13 | 24.13 | 0 | 24.23 | 24.23 | 0 | 24.69 | 24.69 | 0 | |
| 283700 | 23.05 | 23.05 | 0 | 25.87 | 25.87 | 0 | 26.57 | 26.57 | 0 | 26.88 | 26.88 | 0 | 28.24 | 28.24 | 0 | |
| 283710 | 24.85 | 24.85 | 0 | 25.91 | 25.91 | 0 | 26.59 | 26.59 | 0 | 26.9 | 26.9 | 0 | 28.25 | 28.25 | 0 | |
| 283720 | 27.55 | 27.55 | 0 | 28.76 | 28.76 | 0 | 29.36 | 29.36 | 0 | 29.6 | 29.6 | 0 | 30.61 | 30.61 | 0 | |
| 283730 | 33.9 | 33.9 | 0 | 34.49 | 34.49 | 0 | 34.8 | 34.8 | 0 | 34.96 | 34.96 | 0 | 35.63 | 35.63 | 0 | |
| 283740 | 24.42 | 24.42 | 0 | 26.77 | 26.77 | 0 | 27.44 | 27.44 | 0 | 27.74 | 27.74 | 0 | 29.08 | 29.08 | 0 | |
| 283750 | 26.1 | 26.1 | 0 | 26.88 | 26.88 | 0 | 27.47 | 27.47 | 0 | 27.75 | 27.75 | 0 | 29.08 | 29.08 | 0 | |
| 283760 | 26.12 | 26.12 | 0 | 26.9 | 26.9 | 0 | 27.5 | 27.5 | 0 | 27.79 | 27.79 | 0 | 29.08 | 29.08 | 0 | |
| 283770 | 26.4 | 26.4 | 0 | 27.03 | 27.03 | 0 | 27.5 | 27.5 | 0 | 27.79 | 27.79 | 0 | 29.08 | 29.08 | 0 | |
| 283780 | 24.84 | 24.84 | 0 | 25.75 | 25.75 | 0 | 26.3 | 26.3 | 0 | 26.55 | 26.55 | 0 | 27.52 | 27.52 | 0 | |
| 283790 | 24.66 | 24.66 | 0 | 25.53 | 25.53 | 0 | 26.22 | 26.22 | 0 | 26.48 | 26.48 | 0 | 27.5 | 27.5 | 0 | |
| 283800 | 25.8 | 25.8 | 0 | 26.69 | 26.69 | 0 | 27.27 | 27.27 | 0 | 27.52 | 27.52 | 0 | 28.72 | 28.72 | 0 | |
| 283810 | 27.62 | 27.62 | 0 | 28.03 | 28.03 | 0 | 28.18 | 28.18 | 0 | 28.28 | 28.28 | 0 | 28.99 | 28.99 | 0 | |
| 283820 | 34.28 | 34.28 | 0 | 35.11 | 35.11 | 0 | 35.51 | 35.51 | 0 | 35.68 | 35.68 | 0 | 36.21 | 36.21 | 0 | |
| 283830 | 27.04 | 27.04 | 0 | 27.22 | 27.22 | 0 | 27.31 | 27.31 | 0 | 27.35 | 27.35 | 0 | 27.55 | 27.55 | 0 | |
| 283840 | 27.36 | 27.36 | 0 | 27.7 | 27.7 | 0 | 27.83 | 27.83 | 0 | 27.9 | 27.9 | 0 | 28.23 | 28.23 | 0 | |
| 283850 | 34.43 | 34.43 | 0 | 36.56 | 36.56 | 0 | 37.83 | 37.83 | 0 | 38.03 | 38.03 | 0 | 38.4 | 38.4 | 0 | |
| 283860 | 34.82 | 34.82 | 0 | 36.78 | 36.78 | 0 | 37.83 | 37.83 | 0 | 38.03 | 38.03 | 0 | 38.37 | 38.37 | 0 | |
| 283900 | 21.72 | 21.72 | 0 | 22.65 | 22.65 | 0 | 22.96 | 22.96 | 0 | 23.05 | 23.05 | 0 | 23.55 | 23.55 | 0 | |

Summary of Corrected and Revised Stages for Bridge Culvert

| Node | 2.33YR24HR | | | 25YR24HR | | | 50YR24HR | | | 100YR24HR | | | 500YR24HR | | | Notes | |
|--------|--------------------------------|---------------------|-----------------|--------------------------------|---------------------|-----------------|--------------------------------|---------------------|-----------------|--------------------------------|---------------------|-----------------|--------------------------------|---------------------|-----------------|------------|--|
| | Corrected Effective Stage (ft) | Proposed Stage (ft) | Difference (ft) | Corrected Effective Stage (ft) | Proposed Stage (ft) | Difference (ft) | Corrected Effective Stage (ft) | Proposed Stage (ft) | Difference (ft) | Corrected Effective Stage (ft) | Proposed Stage (ft) | Difference (ft) | Corrected Effective Stage (ft) | Proposed Stage (ft) | Difference (ft) | | |
| 283960 | 25.25 | 25.25 | 0 | 26.23 | 26.23 | 0 | 26.59 | 26.59 | 0 | 26.73 | 26.73 | 0 | 27.26 | 27.26 | 0 | | |
| 283970 | 25.72 | 25.72 | 0 | 26.5 | 26.5 | 0 | 26.78 | 26.78 | 0 | 26.89 | 26.89 | 0 | 27.34 | 27.34 | 0 | | |
| 283990 | 27.32 | 27.32 | 0 | 28.16 | 28.16 | 0 | 28.54 | 28.54 | 0 | 28.65 | 28.65 | 0 | 29.06 | 29.06 | 0 | | |
| 284000 | 22.5 | 22.5 | 0 | 23.78 | 23.78 | 0 | 24.05 | 24.05 | 0 | 24.12 | 24.12 | 0 | 24.57 | 24.57 | 0 | | |
| 284010 | 22.52 | 22.52 | 0 | 25.17 | 25.17 | 0 | 26.27 | 26.27 | 0 | 26.58 | 26.58 | 0 | 27.99 | 27.99 | 0 | | |
| 284020 | 22.52 | 22.52 | 0 | 26.03 | 26.03 | 0 | 27.54 | 27.54 | 0 | 27.75 | 27.75 | 0 | 28.59 | 28.59 | 0 | | |
| 284030 | 27.13 | 27.13 | 0 | 27.43 | 27.43 | 0 | 27.72 | 27.72 | 0 | 27.92 | 27.92 | 0 | 28.77 | 28.77 | 0 | | |
| 284040 | 27.13 | 27.13 | 0 | 27.57 | 27.57 | 0 | 28.08 | 28.08 | 0 | 28.43 | 28.43 | 0 | 29.93 | 29.93 | 0 | | |
| 284050 | 31.67 | 31.67 | 0 | 32.03 | 32.03 | 0 | 32.18 | 32.18 | 0 | 32.25 | 32.25 | 0 | 32.46 | 32.46 | 0 | | |
| 284060 | 32.51 | 32.51 | 0 | 33.01 | 33.01 | 0 | 33.24 | 33.24 | 0 | 33.32 | 33.32 | 0 | 33.54 | 33.54 | 0 | | |
| 284070 | 32.53 | 32.53 | 0 | 33.28 | 33.28 | 0 | 33.82 | 33.82 | 0 | 34.13 | 34.13 | 0 | 35.16 | 35.16 | 0 | | |
| 284080 | 32.68 | 32.68 | 0 | 34.34 | 34.34 | 0 | 34.8 | 34.8 | 0 | 34.87 | 34.87 | 0 | 35.3 | 35.3 | 0 | | |
| 284090 | 25.59 | 25.59 | 0 | 26.13 | 26.13 | 0 | 26.35 | 26.35 | 0 | 26.6 | 26.6 | 0 | 27.99 | 27.99 | 0 | | |
| 284100 | 25.59 | 25.59 | 0 | 26.13 | 26.13 | 0 | 26.35 | 26.35 | 0 | 26.6 | 26.6 | 0 | 27.99 | 27.99 | 0 | | |
| 284110 | 25.59 | 25.59 | 0 | 26.13 | 26.13 | 0 | 26.35 | 26.35 | 0 | 26.6 | 26.6 | 0 | 27.99 | 27.99 | 0 | | |
| 284120 | 26.68 | 26.68 | 0 | 26.91 | 26.91 | 0 | 27.01 | 27.01 | 0 | 27.06 | 27.06 | 0 | 27.99 | 27.99 | 0 | | |
| 284210 | 10.3 | 10.3 | 0 | 10.68 | 10.68 | 0 | 10.9 | 10.9 | 0 | 11 | 11 | 0 | 11.55 | 11.55 | 0 | | |
| 284220 | 14.16 | 14.16 | 0 | 16.19 | 16.19 | 0 | 17.14 | 17.14 | 0 | 17.6 | 17.6 | 0 | 19.88 | 19.88 | 0 | | |
| 284230 | 15.07 | 15.07 | 0 | 16.9 | 16.9 | 0 | 17.83 | 17.83 | 0 | 18.29 | 18.29 | 0 | 20.66 | 20.66 | 0 | | |
| 284240 | 5.03 | 5.03 | 0 | 6.62 | 6.62 | 0 | 7.46 | 7.46 | 0 | 7.86 | 7.86 | 0 | 9.83 | 9.83 | 0 | | |
| 230202 | 4.67 | 4.95 | 0.28 | 5.23 | 5.42 | 0.19 | 5.85 | 5.63 | -0.22 | 6.11 | 5.7 | -0.41 | 7.15 | 6.78 | -0.37 | Dummy Node | |
| 300010 | | 4.75 | | | 5.77 | | | 6.13 | | | 6.29 | | | 7.01 | 7.01 | | |
| 300012 | | 4.75 | | | 5.77 | | | 6.13 | | | 6.29 | | | 7 | 7 | | |
| 300014 | | 4.75 | | | 5.76 | | | 6.13 | | | 6.29 | | | 7 | 7 | | |
| 300020 | | 5.82 | | | 6.99 | | | 7.4 | | | 7.57 | | | 8.39 | 8.39 | | |
| 300022 | | 6.54 | | | 7.12 | | | 7.43 | | | 7.61 | | | 8.42 | 8.42 | | |
| 300024 | | 5.82 | | | 6.99 | | | 7.4 | | | 7.57 | | | 8.39 | 8.39 | | |
| 300026 | | 5.75 | | | 6.99 | | | 7.39 | | | 7.56 | | | 8.38 | 8.38 | | |
| 300028 | | 5.75 | | | 6.98 | | | 7.38 | | | 7.56 | | | 8.38 | 8.38 | | |
| 300030 | | 4.18 | | | 5.22 | | | 5.68 | | | 5.89 | | | 6.73 | 6.73 | | |
| 300032 | | 4.17 | | | 5.2 | | | 5.66 | | | 5.87 | | | 6.71 | 6.71 | | |
| 300034 | | 3.99 | | | 5.16 | | | 5.64 | | | 5.85 | | | 6.69 | 6.69 | | |

DRAFT

Summary of Flow Results at all Nodes

| Node | 2.33YR24HR | | | | 25YR24HR | | | | 50YR24HR | | | | 100YR24HR | | | | 500YR24HR | | | |
|--------|-----------------------|---------------------------------|-----------------------|-----------------------------|-----------------------|---------------------------------|-----------------------|-----------------------------|-----------------------|---------------------------------|-----------------------|-----------------------------|-----------------------|---------------------------------|-----------------------|-----------------------------|-----------------------|---------------------------------|-----------------------|-----------------------------|
| | Effective Model (cfs) | Corrected Effective Model (cfs) | Proposed Bridge (cfs) | Proposed Box Culverts (cfs) | Effective Model (cfs) | Corrected Effective Model (cfs) | Proposed Bridge (cfs) | Proposed Box Culverts (cfs) | Effective Model (cfs) | Corrected Effective Model (cfs) | Proposed Bridge (cfs) | Proposed Box Culverts (cfs) | Effective Model (cfs) | Corrected Effective Model (cfs) | Proposed Bridge (cfs) | Proposed Box Culverts (cfs) | Effective Model (cfs) | Corrected Effective Model (cfs) | Proposed Bridge (cfs) | Proposed Box Culverts (cfs) |
| 216148 | 2.27 | 2.27 | 2.27 | 2.27 | 8.53 | 8.53 | 8.53 | 8.53 | 11.89 | 11.89 | 11.89 | 11.89 | 12.75 | 12.75 | 12.75 | 12.75 | 14.35 | 14.35 | 14.35 | 14.35 |
| 216798 | 3.07 | 3.07 | 3.07 | 3.07 | 3.58 | 3.57 | 3.57 | 3.57 | 3.54 | 3.54 | 3.54 | 3.54 | 3.55 | 3.55 | 3.55 | 3.55 | 3.62 | 3.62 | 3.62 | 3.62 |
| 216898 | 5.52 | 5.52 | 5.52 | 5.52 | 5.98 | 5.98 | 5.98 | 5.98 | 6.2 | 6.2 | 6.2 | 6.2 | 6.3 | 6.3 | 6.3 | 6.3 | 6.78 | 6.78 | 6.78 | 6.78 |
| 216918 | 2.11 | 2.11 | 2.11 | 2.11 | 9.04 | 9.04 | 9.04 | 9.04 | 12.73 | 12.73 | 12.73 | 12.73 | 14.29 | 14.29 | 14.29 | 14.29 | 19.63 | 19.63 | 19.63 | 19.63 |
| 217398 | 4.32 | 4.32 | 4.32 | 4.32 | 9.66 | 9.66 | 9.66 | 9.66 | 19.05 | 19.05 | 19.05 | 19.05 | 21.59 | 21.59 | 21.59 | 21.59 | 40.34 | 40.34 | 40.34 | 40.34 |
| 220898 | 2.15 | 2.15 | 2.15 | 2.15 | 3.48 | 3.48 | 3.48 | 3.48 | 5.54 | 5.54 | 5.54 | 5.54 | 5.94 | 5.94 | 5.94 | 5.94 | 7.32 | 7.32 | 7.32 | 7.32 |
| 220908 | 2.06 | 2.06 | 2.06 | 2.06 | 2.87 | 2.87 | 2.87 | 2.87 | 3.8 | 3.8 | 3.8 | 3.8 | 4.36 | 4.36 | 4.36 | 4.36 | 5.99 | 5.99 | 5.99 | 5.99 |
| 221118 | 36.5 | 38.9 | 38.9 | 38.9 | 36.5 | 38.9 | 38.9 | 38.9 | 38.9 | 38.9 | 38.9 | 38.9 | 38.9 | 38.9 | 38.9 | 38.9 | 38.9 | 38.9 | 38.9 | 38.9 |
| 221308 | 10.39 | 10.39 | 10.39 | 10.39 | 16.47 | 16.47 | 16.47 | 16.47 | 18.12 | 18.12 | 18.12 | 18.12 | 20.84 | 20.84 | 20.84 | 20.84 | 57.52 | 57.52 | 57.52 | 57.52 |
| 222048 | 2.66 | 2.66 | 2.66 | 2.66 | 3.6 | 3.6 | 3.6 | 3.6 | 4.05 | 4.05 | 4.05 | 4.05 | 4.25 | 4.25 | 4.25 | 4.25 | 5.15 | 5.15 | 5.15 | 5.15 |
| 222358 | 5.14 | 5.15 | 5.15 | 5.15 | 18.68 | 18.68 | 18.68 | 18.68 | 24.62 | 24.62 | 24.62 | 24.62 | 26.97 | 26.97 | 26.97 | 26.97 | 38.49 | 38.49 | 38.49 | 38.49 |
| 222408 | 0 | 0 | 0 | 0 | 12.54 | 12.54 | 12.54 | 12.54 | 15.44 | 15.44 | 15.44 | 15.44 | 17.77 | 17.77 | 17.77 | 17.77 | 31.44 | 31.44 | 31.44 | 31.44 |
| 222768 | 4.1 | 4.1 | 4.1 | 4.1 | 12.04 | 12.04 | 12.04 | 12.04 | 15.32 | 15.32 | 15.32 | 15.32 | 18.64 | 18.64 | 18.64 | 18.64 | 32.22 | 32.22 | 32.22 | 32.22 |
| 222778 | 3.68 | 3.68 | 3.68 | 3.68 | 4.52 | 4.53 | 4.53 | 4.53 | 5.33 | 5.33 | 5.33 | 5.33 | 5.62 | 5.62 | 5.62 | 5.62 | 6.27 | 6.27 | 6.27 | 6.27 |
| 222848 | 9.77 | 9.77 | 9.77 | 9.77 | 38.91 | 38.92 | 38.92 | 38.92 | 61.21 | 61.21 | 61.21 | 61.21 | 83.64 | 83.64 | 83.64 | 83.64 | 209.7 | 209.7 | 209.7 | 209.7 |
| 222858 | 16.28 | 16.28 | 16.28 | 16.28 | 43.53 | 43.53 | 43.53 | 43.53 | 60.73 | 60.73 | 60.73 | 60.73 | 68.86 | 68.86 | 68.86 | 68.86 | 147.25 | 147.25 | 147.25 | 147.25 |
| 222898 | 9.86 | 9.86 | 9.86 | 9.86 | 35 | 35 | 35 | 35 | 54.96 | 54.96 | 54.96 | 54.96 | 69.01 | 69.01 | 69.01 | 69.01 | 140.54 | 140.54 | 140.54 | 140.54 |
| 222918 | 7.92 | 7.91 | 7.91 | 7.91 | 21.97 | 21.97 | 21.97 | 21.97 | 25.92 | 25.92 | 25.92 | 25.92 | 28.69 | 28.69 | 28.69 | 28.69 | 46.06 | 46.06 | 46.06 | 46.06 |
| 223028 | 6.41 | 6.41 | 6.41 | 6.41 | 13.66 | 13.66 | 13.66 | 13.66 | 21.49 | 21.49 | 21.49 | 21.49 | 26 | 26 | 26 | 26 | 56.01 | 56.01 | 56.01 | 56.01 |
| 223118 | 8.54 | 8.54 | 8.54 | 8.54 | 14.77 | 14.77 | 14.77 | 14.77 | 15.84 | 15.84 | 15.84 | 15.84 | 16.23 | 16.23 | 16.23 | 16.23 | 18 | 18 | 18 | 18 |
| 223148 | 0.53 | 0.53 | 0.53 | 0.53 | 1 | 1 | 1 | 1 | 1.33 | 1.33 | 1.33 | 1.33 | 1.46 | 1.46 | 1.46 | 1.46 | 1.77 | 1.77 | 1.77 | 1.77 |
| 223208 | 1.34 | 1.34 | 1.34 | 1.34 | 2.31 | 2.31 | 2.31 | 2.31 | 2.79 | 2.79 | 2.79 | 2.79 | 3.02 | 3.02 | 3.02 | 3.02 | 5.56 | 5.56 | 5.56 | 5.56 |
| 223228 | 11.6 | 11.6 | 11.6 | 11.6 | 18.62 | 18.62 | 18.62 | 18.62 | 19.62 | 19.62 | 19.62 | 19.62 | 20.02 | 20.02 | 20.02 | 20.02 | 23.73 | 23.73 | 23.73 | 23.73 |
| 223258 | 7.97 | 7.96 | 7.96 | 7.96 | 18.87 | 18.88 | 18.88 | 18.88 | 20.21 | 20.21 | 20.21 | 20.21 | 20.78 | 20.78 | 20.78 | 20.78 | 46.97 | 46.97 | 46.97 | 46.97 |
| 223278 | 2.5 | 2.5 | 2.5 | 2.5 | 4.61 | 4.61 | 4.61 | 4.61 | 5.47 | 5.47 | 5.47 | 5.47 | 5.87 | 5.87 | 5.87 | 5.87 | 9.91 | 9.91 | 9.91 | 9.91 |
| 223298 | 3.52 | 3.52 | 3.52 | 3.52 | 9.49 | 9.49 | 9.49 | 9.49 | 9.9 | 9.9 | 9.9 | 9.9 | 9.98 | 9.98 | 9.98 | 9.98 | 10.27 | 10.27 | 10.27 | 10.27 |
| 223318 | 2.31 | 2.31 | 2.31 | 2.31 | 6.12 | 6.12 | 6.12 | 6.12 | 7.15 | 7.15 | 7.15 | 7.15 | 8.94 | 8.94 | 8.94 | 8.94 | 23.8 | 23.8 | 23.8 | 23.8 |
| 223328 | 3.66 | 3.66 | 3.66 | 3.66 | 7.71 | 7.71 | 7.71 | 7.71 | 8.73 | 8.73 | 8.73 | 8.73 | 8.91 | 8.91 | 8.91 | 8.91 | 11.88 | 11.88 | 11.88 | 11.88 |
| 223448 | 6.01 | 6.02 | 6.02 | 6.02 | 8.36 | 8.36 | 8.36 | 8.36 | 9.36 | 9.36 | 9.36 | 9.36 | 9.82 | 9.82 | 9.82 | 9.82 | 11.95 | 11.95 | 11.95 | 11.95 |
| 223458 | 15.74 | 15.74 | 15.74 | 15.74 | 43.37 | 43.37 | 43.37 | 43.37 | 69.17 | 69.17 | 69.17 | 69.17 | 81.02 | 81.02 | 81.02 | 81.02 | 149.44 | 149.44 | 149.44 | 149.44 |
| 223528 | 11.79 | 11.79 | 11.79 | 11.79 | 26.98 | 26.98 | 26.98 | 26.98 | 41.55 | 41.55 | 41.55 | 41.55 | 55.49 | 55.49 | 55.49 | 55.49 | 106.76 | 106.76 | 106.76 | 106.76 |
| 223538 | 3.42 | 3.42 | 3.42 | 3.42 | 4.36 | 4.36 | 4.36 | 4.36 | 4.54 | 4.54 | 4.54 | 4.54 | 4.63 | 4.63 | 4.63 | 4.63 | 4.99 | 4.99 | 4.99 | 4.99 |
| 280625 | 4.62 | 4.63 | 4.63 | 4.63 | 45.95 | 45.96 | 45.96 | 45.96 | 70.25 | 70.25 | 70.25 | 70.25 | 82.74 | 82.74 | 82.74 | 82.74 | 166.9 | 166.91 | 166.91 | 166.91 |
| 200000 | 88.48 | 88.37 | 88.49 | 88.11 | 180 | 181.99 | 182.57 | 181.39 | 201.31 | 205.62 | 205.78 | 205.23 | 211.72 | 216.82 | 216.81 | 216.65 | 264.75 | 273.09 | 272.02 | 273.66 |
| 200205 | 0 | 0 | 0 | 0 | 43.75 | 49.7 | 51.16 | 48.02 | 83.83 | 94.06 | 94.33 | 93.14 | 100.87 | 113.1 | 112.91 | 112.65 | 188.5 | 211.45 | 207.75 | 212.82 |
| 201000 | 132.62 | 132.63 | 132.63 | 132.63 | 199.12 | 199.12 | 199.12 | 199.12 | 233.35 | 233.35 | 233.35 | 233.35 | 251.3 | 251.3 | 251.3 | 251.3 | 342.72 | 342.72 | 342.72 | 342.72 |
| 202000 | 82.87 | 82.87 | 82.87 | 82.87 | 153.77 | 153.77 | 153.77 | 153.77 | 192.48 | 192.48 | 192.48 | 192.48 | 208.56 | 208.56 | 208.56 | 208.56 | 285.2 | 285.2 | 285.2 | 285.2 |
| 202100 | 110.31 | 110.32 | 110.32 | 110.32 | 180.57 | 180.57 | 180.57 | 180.57 | 216.66 | 216.66 | 216.66 | 216.66 | 233.96 | 233.96 | 233.96 | 233.96 | 320.15 | 320.15 | 320.15 | 320.15 |
| 210000 | 619.73 | 616.57 | 615.3 | 621.98 | 903.34 | 904.2 | 906.02 | 911.92 | 1007.75 | 1012.03 | 1018.21 | 1019.97 | 1054 | 1058.03 | 1067.11 | 1066.74 | 1254.7 | 1259.43 | 1281.29 | 1269.06 |
| 210795 | 0 | 0 | 0 | 0 | 13.71 | 15.82 | 15.46 | 15.48 | 30.99 | 27.69 | 27.59 | 27.66 | 38.73 | 33.67 | 33.7 | 33.78 | 70.5 | 65.5 | 66.14 | 66.41 |
| 210805 | 0 | 0 | 0 | 0 | 58.3 | 60.79 | 62.33 | 64.28 | 109.47 | 114.67 | 118.62 | 118.71 | 135.24 | 140.73 | 146.47 | 145.32 | 257.18 | 266.41 | 281.26 | 271.96 |
| 212485 | 0 | 0 | 0 | 0 | 5.12 | 5.15 | 5.15 | 5.15 | 18.87 | 18.87 | 18.87 | 18.87 | 25.56 | 25.56 | 25.56 | 25.56 | 59.64 | 59.64 | 59.64 | 59.64 |
| 212495 | 0 | 0 | 0 | 0 | 27.38 | 27.41 | 27.41 | 27.41 | 41.96 | 41.96 | 41.96 | 41.96 | 48.85 | 48.85 | 48.85 | 48.85 | 83.76 | 83.76 | 83.76 | 83.76 |
| 212955 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2.6 | 2.6 | 2.6 | 2.6 | 21.87 | 21.87 | 21.87 | 21.87 |
| 214055 | 0.59 | 0.59 | 0.59 | 0.59 | 36.06 | 36.06 | 36.06 | 36.06 | 61.96 | 61.96 | 61.96 | 61.96 | 81.84 | 81.84 | 81.84 | 81.84 | 199.22 | 199.22 | 199.22 | 199.22 |
| 214245 | 16.16 | 16.16 | 16.16 | 16.16 | 45.35 | 45.35 | 45.35 | 45.35 | 60.75 | 60.75 | 60.75 | 60.75 | 67.72 | 67.72 | 67.72 | 67.72 | 107.22 | 107.22 | 107.22 | 107.22 |
| 216146 | 2.27 | 2.27 | 2.27 | 2.27 | 8.53 | 8.53 | 8.53 | 8.53 | 11.89 | 11.89 | 11.89 | 11.89 | 12.75 | 12.75 | 12.75 | 12.75 | 14.35 | 14.35 | 14.35 | 14.35 |
| 216385 | 0 | 0 | 0 | 0 | 38.71 | 38.73 | 38.73 | 38.73 | 78.43 | 78.43 | 78.43 | 78.43 | 96.55 | 96.55 | 96.55 | 96.55 | 188.21 | 188.21 | 188.21 | 188.21 |
| 216558 | 4.25 | 4.25 | 4.25 | 4.25 | 8.83 | 8.83 | 8.83 | 8.83 | 10.53 | 10.53 | 10.53 | 10.53 | 11.22 | 11.22 | 11.22 | 11.22 | 12.14 | 12.14 | 12.14 | 12.14 |
| 216668 | 0 | 0 | 0 | 0 | 11.83 | 11.83 | 11.83 | 11.83 | 32.55 | 32.55 | 32.55 | 32.55 | 41.03 | 41.03 | 41.03 | 41.03 | 53.45 | 53.45 | 53.45 | 53.45 |
| 216778 | 3.93 | 3.93 | 3.93 | 3.93 | 7.9 | 7.9 | 7.9 | 7.9 | 8.07 | 8.07 | 8.07 | 8.07 | 8.13 | 8.13 | 8.13 | 8.13 | 8.41 | 8.41 | 8.41 | 8.41 |
| 216788 | 0.14 | 0.14 | 0.14 | 0.14 | 0.76 | 0.76 | 0.76 | 0.76 | 1.28 | 1.28 | 1.28 | 1.28 | 1.43 | 1.43 | 1.43 | 1.43 | 1.93 | 1.93 | 1.93 | 1.93 |
| 216796 | 3.07 | 3.07 | 3.07 | 3.07 | 3.49 | 3.5 | 3.49 | 3.49 | 3.53 | 3.53 | 3.53 | 3.53 | 3.55 | 3.55 | 3.55 | 3.55 | 3.62 | 3.62 | 3.62 | 3.62 |
| 216896 | 5.52 | 5.52 | 5.52 | 5.52 | 5.98 | 5.98 | 5.98 | 5.98 | 6.2 | 6.2 | 6.2 | 6.2 | 6.3 | 6.3 | 6.3 | 6.3 | 6.78 | 6.78 | 6.78 | 6.78 |
| 216916 | 2.11 | 2.11 | 2.11 | 2.11 | 9.04 | 9.04 | 9.04 | 9.04 | 12.73 | 12.73 | 12.73 | 12.73 | 14.29 | 14.29 | 14.29 | 14.29 | 19.63 | 19.63 | 19.63 | 19.63 |
| 217396 | 4.32 | 4.32 | 4.32 | 4.32 | 9.66 | 9.66 | 9.66 | 9.66 | 19.05 | 19.05 | 19.05 | 19.05 | 21.59 | 21.59 | 21.59 | 21.59 | 40.34 | 40.34 | 40.34 | 40.34 |
| 217498 | 5.07 | 5.07 | 5.07 | 5.07 | 9.29 | 9.29 | 9.29 | 9.29 | 10.78 | 10.78 | 10.78 | 10.78 | 11.37 | 11.37 | 11.37 | 11.37 | 13.58 | 13.58 | 13.58 | 13.58 |
| 220896 | 2.15 | 2.15 | 2.15 | 2.15 | 3.48 | 3.48 | 3.48 | 3.48 | 5.54 | 5.54 | 5.54 | 5.54 | 5.94 | 5.94 | 5.94 | 5.94 | 7.32 | 7.32 | 7.32 | 7.32 |
| 220906 | 2.06 | 2.06 | 2.06 | 2.06 | | | | | | | | | | | | | | | | |

Summary of Flow Results at all Nodes

| Node | 2.33YR24HR | | | | 25YR24HR | | | | 50YR24HR | | | | 100YR24HR | | | | 500YR24HR | | | |
|--------|-----------------------|---------------------------------|-----------------------|-----------------------------|-----------------------|---------------------------------|-----------------------|-----------------------------|-----------------------|---------------------------------|-----------------------|-----------------------------|-----------------------|---------------------------------|-----------------------|-----------------------------|-----------------------|---------------------------------|-----------------------|-----------------------------|
| | Effective Model (cfs) | Corrected Effective Model (cfs) | Proposed Bridge (cfs) | Proposed Box Culverts (cfs) | Effective Model (cfs) | Corrected Effective Model (cfs) | Proposed Bridge (cfs) | Proposed Box Culverts (cfs) | Effective Model (cfs) | Corrected Effective Model (cfs) | Proposed Bridge (cfs) | Proposed Box Culverts (cfs) | Effective Model (cfs) | Corrected Effective Model (cfs) | Proposed Bridge (cfs) | Proposed Box Culverts (cfs) | Effective Model (cfs) | Corrected Effective Model (cfs) | Proposed Bridge (cfs) | Proposed Box Culverts (cfs) |
| 223206 | 1.34 | 1.34 | 1.34 | 1.34 | 2.31 | 2.31 | 2.31 | 2.31 | 2.79 | 2.79 | 2.79 | 2.79 | 3.02 | 3.02 | 3.02 | 3.02 | 5.56 | 5.56 | 5.56 | 5.56 |
| 223226 | 11.59 | 11.59 | 11.59 | 11.59 | 18.62 | 18.62 | 18.62 | 18.62 | 19.62 | 19.62 | 19.62 | 19.62 | 20.02 | 20.02 | 20.02 | 20.02 | 23.73 | 23.73 | 23.73 | 23.73 |
| 223256 | 7.97 | 7.96 | 7.96 | 7.96 | 18.87 | 18.87 | 18.87 | 18.87 | 20.21 | 20.21 | 20.21 | 20.21 | 20.78 | 20.78 | 20.78 | 20.78 | 46.97 | 46.97 | 46.97 | 46.97 |
| 223276 | 2.5 | 2.5 | 2.5 | 2.5 | 4.61 | 4.61 | 4.61 | 4.61 | 5.47 | 5.47 | 5.47 | 5.47 | 5.87 | 5.87 | 5.87 | 5.87 | 9.91 | 9.91 | 9.91 | 9.91 |
| 223288 | 4.15 | 4.15 | 4.15 | 4.15 | 13.64 | 13.64 | 13.64 | 13.64 | 16.27 | 16.27 | 16.27 | 16.27 | 17.26 | 17.26 | 17.26 | 17.26 | 19.23 | 19.23 | 19.23 | 19.23 |
| 223296 | 3.52 | 3.52 | 3.52 | 3.52 | 9.49 | 9.49 | 9.49 | 9.49 | 9.9 | 9.9 | 9.9 | 9.9 | 9.98 | 9.98 | 9.98 | 9.98 | 10.27 | 10.27 | 10.27 | 10.27 |
| 223308 | 21.47 | 21.47 | 21.47 | 21.47 | 68.92 | 68.92 | 68.92 | 68.92 | 97.49 | 97.49 | 97.49 | 97.49 | 111.97 | 111.97 | 111.97 | 111.97 | 189.74 | 189.74 | 189.74 | 189.74 |
| 223316 | 2.31 | 2.31 | 2.31 | 2.31 | 6.12 | 6.12 | 6.12 | 6.12 | 7.15 | 7.15 | 7.15 | 7.15 | 8.94 | 8.94 | 8.94 | 8.94 | 23.8 | 23.8 | 23.8 | 23.8 |
| 223326 | 3.66 | 3.66 | 3.66 | 3.66 | 7.71 | 7.71 | 7.71 | 7.71 | 8.73 | 8.73 | 8.73 | 8.73 | 8.91 | 8.91 | 8.91 | 8.91 | 11.88 | 11.88 | 11.88 | 11.88 |
| 223338 | 2.94 | 2.94 | 2.94 | 2.94 | 5.18 | 5.18 | 5.18 | 5.18 | 5.78 | 5.78 | 5.78 | 5.78 | 5.87 | 5.87 | 5.87 | 5.87 | 6.12 | 6.12 | 6.12 | 6.12 |
| 223348 | 5.24 | 5.24 | 5.24 | 5.24 | 87.66 | 87.66 | 87.66 | 87.66 | 158.51 | 158.51 | 158.51 | 158.51 | 195.05 | 195.05 | 195.05 | 195.05 | 387.25 | 387.25 | 387.25 | 387.25 |
| 223408 | 26.18 | 26.18 | 26.18 | 26.18 | 89.21 | 89.21 | 89.21 | 89.21 | 123.03 | 123.03 | 123.03 | 123.03 | 138.4 | 138.4 | 138.4 | 138.4 | 189.75 | 189.75 | 189.75 | 189.75 |
| 223418 | 7.05 | 7.05 | 7.05 | 7.05 | 8.75 | 8.75 | 8.75 | 8.75 | 8.91 | 8.91 | 8.91 | 8.91 | 8.97 | 8.97 | 8.97 | 8.97 | 9.38 | 9.38 | 9.38 | 9.38 |
| 223428 | 1.84 | 1.84 | 1.84 | 1.84 | 3.15 | 3.15 | 3.15 | 3.15 | 3.3 | 3.3 | 3.3 | 3.3 | 3.35 | 3.35 | 3.35 | 3.35 | 3.51 | 3.51 | 3.51 | 3.51 |
| 223446 | 6.01 | 6.02 | 6.02 | 6.02 | 8.36 | 8.36 | 8.36 | 8.36 | 9.36 | 9.36 | 9.36 | 9.36 | 9.82 | 9.82 | 9.82 | 9.82 | 11.95 | 11.95 | 11.95 | 11.95 |
| 223456 | 15.73 | 15.73 | 15.73 | 15.73 | 43.37 | 43.37 | 43.37 | 43.37 | 69.17 | 69.17 | 69.17 | 69.17 | 81.02 | 81.02 | 81.02 | 81.02 | 149.44 | 149.44 | 149.44 | 149.44 |
| 223468 | 16.67 | 16.67 | 16.67 | 16.67 | 74.88 | 74.88 | 74.88 | 74.88 | 113.38 | 113.38 | 113.38 | 113.38 | 134.73 | 134.73 | 134.73 | 134.73 | 182.54 | 182.54 | 182.54 | 182.54 |
| 223478 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 223488 | 5.08 | 5.08 | 5.08 | 5.08 | 7.28 | 7.28 | 7.28 | 7.28 | 8.14 | 8.14 | 8.14 | 8.14 | 8.5 | 8.5 | 8.5 | 8.5 | 9.93 | 9.93 | 9.93 | 9.93 |
| 223526 | 11.79 | 11.79 | 11.79 | 11.79 | 26.98 | 26.98 | 26.98 | 26.98 | 41.55 | 41.55 | 41.55 | 41.55 | 55.49 | 55.49 | 55.49 | 55.49 | 106.76 | 106.76 | 106.76 | 106.76 |
| 223536 | 3.42 | 3.42 | 3.42 | 3.42 | 4.36 | 4.36 | 4.36 | 4.36 | 4.54 | 4.54 | 4.54 | 4.54 | 4.62 | 4.62 | 4.62 | 4.62 | 4.99 | 4.99 | 4.99 | 4.99 |
| 223548 | 7.49 | 7.49 | 7.49 | 7.49 | 12.16 | 12.16 | 12.16 | 12.16 | 14.13 | 14.13 | 14.13 | 14.13 | 14.62 | 14.62 | 14.62 | 14.62 | 16.08 | 16.08 | 16.08 | 16.08 |
| 223558 | 6.36 | 6.36 | 6.36 | 6.36 | 14.02 | 14.02 | 14.02 | 14.02 | 17.12 | 17.12 | 17.12 | 17.12 | 18.55 | 18.55 | 18.55 | 18.55 | 23.78 | 23.78 | 23.78 | 23.78 |
| 230000 | 100.98 | 83.92 | 80.97 | 80.97 | 245.01 | 233.76 | 227.38 | 227.38 | 311.16 | 294.02 | 290.23 | 290.23 | 340.35 | 319.64 | 316.17 | 316.17 | 468.36 | 431.08 | 424.6 | 424.6 |
| 240000 | 261.44 | 261.52 | 261.52 | 261.52 | 502.33 | 502.47 | 502.47 | 502.47 | 642.28 | 642.28 | 642.28 | 642.28 | 687.37 | 687.39 | 687.4 | 687.38 | 949.74 | 949.74 | 949.74 | 949.74 |
| 250000 | 82.96 | 86.5 | 86.5 | 86.5 | 172.81 | 179.55 | 179.55 | 179.55 | 221.85 | 228.3 | 228.3 | 228.3 | 244.66 | 250.75 | 250.74 | 250.74 | 348.41 | 350.87 | 350.86 | 350.86 |
| 250195 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4.54 | 4.54 | 4.54 | 4.54 | 6.95 | 6.95 | 6.95 | 6.95 | 19.38 | 19.38 | 19.38 | 19.38 |
| 250435 | 10.69 | 10.69 | 10.69 | 10.69 | 29.77 | 29.77 | 29.77 | 29.77 | 43.1 | 43.1 | 43.1 | 43.1 | 49.68 | 49.68 | 49.68 | 49.68 | 82.07 | 82.07 | 82.07 | 82.07 |
| 260000 | 197.21 | 197.3 | 197.3 | 197.3 | 319.24 | 319.28 | 319.28 | 319.28 | 366.75 | 366.75 | 366.75 | 366.75 | 390.26 | 390.26 | 390.26 | 390.26 | 515.85 | 515.85 | 515.85 | 515.85 |
| 262360 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.52 | 0.52 | 0.52 | 0.52 | 5.89 | 5.89 | 5.89 | 5.89 |
| 266278 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 266800 | 115.18 | 115.18 | 115.18 | 115.18 | 169.26 | 169.26 | 169.26 | 169.26 | 196.55 | 196.55 | 196.55 | 196.55 | 209.58 | 209.58 | 209.58 | 209.58 | 274.46 | 274.46 | 274.46 | 274.46 |
| 270000 | 95.75 | 95.75 | 95.75 | 95.75 | 122.87 | 122.94 | 122.94 | 122.94 | 138.02 | 138.16 | 138.16 | 138.16 | 145.23 | 145.37 | 145.37 | 145.37 | 180.22 | 180.33 | 180.33 | 180.33 |
| 280000 | 63.59 | 62.78 | 62.78 | 62.78 | 131.91 | 131.94 | 131.94 | 131.94 | 167.53 | 167.53 | 167.53 | 167.53 | 183.41 | 183.41 | 183.41 | 183.41 | 248.63 | 248.63 | 248.63 | 248.63 |
| 280448 | 6.84 | 6.85 | 6.85 | 6.85 | 19.16 | 19.17 | 19.17 | 19.17 | 26.29 | 26.29 | 26.29 | 26.29 | 29.73 | 29.73 | 29.73 | 29.73 | 49.21 | 49.21 | 49.21 | 49.21 |
| 280465 | 22.88 | 22.88 | 22.88 | 22.88 | 58.6 | 58.6 | 58.6 | 58.6 | 81.97 | 81.97 | 81.97 | 81.97 | 96.74 | 96.74 | 96.74 | 96.74 | 178.2 | 178.2 | 178.2 | 178.2 |
| 280623 | 4.62 | 4.63 | 4.63 | 4.63 | 45.95 | 45.96 | 45.96 | 45.96 | 70.25 | 70.25 | 70.25 | 70.25 | 82.74 | 82.74 | 82.74 | 82.74 | 147.18 | 147.18 | 147.18 | 147.18 |
| 200010 | 88.49 | 88.39 | 88.51 | 88.13 | 180.05 | 182.03 | 182.61 | 181.42 | 201.32 | 205.63 | 205.79 | 205.24 | 211.78 | 216.88 | 216.85 | 216.69 | 264.99 | 273.39 | 272.29 | 273.96 |
| 200020 | 87.63 | 87.53 | 87.64 | 87.29 | 180.39 | 181.95 | 182.43 | 181.42 | 200.33 | 204.69 | 204.83 | 204.3 | 210.51 | 215.7 | 215.69 | 215.54 | 264.04 | 272.96 | 271.62 | 273.49 |
| 200030 | 86.06 | 85.98 | 86.07 | 85.75 | 178.01 | 179.45 | 179.92 | 178.97 | 197.1 | 201.44 | 201.56 | 201.03 | 207.28 | 212.4 | 212.28 | 212.16 | 261.99 | 271.16 | 269.69 | 271.65 |
| 200040 | 92.91 | 92.17 | 91.89 | 91.89 | 211.91 | 215.2 | 216.03 | 214.51 | 245.15 | 253.54 | 253.85 | 252.93 | 263.58 | 273.39 | 273.23 | 273.05 | 350.88 | 364.9 | 362.44 | 365.73 |
| 200050 | 89.66 | 88.18 | 87.37 | 87.37 | 169.92 | 169.49 | 169.61 | 169.6 | 199.9 | 204 | 204.12 | 203.63 | 217.44 | 222.13 | 222.03 | 221.86 | 305.72 | 309.94 | 308.99 | 310.14 |
| 200060 | 80.61 | 80.62 | 80.61 | 80.61 | 208.52 | 208.51 | 209.5 | 209.16 | 229.85 | 229.21 | 229.49 | 229.15 | 253.14 | 252.82 | 252.89 | 252.65 | 323.07 | 323.08 | 323.23 | 323 |
| 200070 | 79.79 | 79.81 | 79.8 | 79.8 | 239.31 | 239.48 | 240.66 | 240.2 | 248.64 | 248.23 | 248.97 | 248.62 | 261.81 | 261.65 | 262.13 | 261.88 | 327.89 | 323.55 | 324.04 | 323.18 |
| 200080 | 80.12 | 80.15 | 80.14 | 80.15 | 162.47 | 159.23 | 159.16 | 159.1 | 208.03 | 205.13 | 205.22 | 204.99 | 230.21 | 228.18 | 228.24 | 228.03 | 399.06 | 397.38 | 397.32 | 397.24 |
| 200090 | 64.77 | 64.79 | 64.79 | 64.79 | 109.16 | 109.19 | 109.15 | 109.21 | 139.57 | 139.51 | 139.45 | 139.54 | 153.57 | 153.46 | 153.41 | 153.47 | 206.73 | 206.68 | 206.64 | 206.69 |
| 200100 | 64.78 | 64.8 | 64.8 | 64.8 | 109.72 | 109.76 | 109.74 | 109.78 | 140.56 | 140.52 | 140.46 | 140.54 | 154.54 | 154.46 | 154.41 | 154.48 | 208.57 | 208.53 | 208.49 | 208.54 |
| 200110 | 64.8 | 64.82 | 64.82 | 64.82 | 109.9 | 109.94 | 109.91 | 109.95 | 140.98 | 140.94 | 140.89 | 140.96 | 155.01 | 154.93 | 154.89 | 154.95 | 209.63 | 209.59 | 209.55 | 209.6 |
| 200120 | 60.41 | 60.43 | 60.43 | 60.43 | 96.22 | 96.23 | 96.23 | 96.23 | 125.24 | 125.24 | 125.24 | 125.24 | 139.72 | 139.72 | 139.72 | 139.72 | 200.91 | 200.91 | 200.91 | 200.91 |
| 200130 | 58.93 | 58.94 | 58.94 | 58.94 | 89.76 | 89.78 | 89.78 | 89.78 | 120.92 | 120.87 | 120.88 | 120.88 | 136.01 | 135.96 | 135.97 | 135.96 | 201.62 | 201.56 | 201.57 | 201.56 |
| 200140 | 72.5 | 72.52 | 72.52 | 72.52 | 172.4 | 172.45 | 172.45 | 172.45 | 228.34 | 228.34 | 228.34 | 228.34 | 252.7 | 252.7 | 252.7 | 252.7 | 391.71 | 391.71 | 391.71 | 391.71 |
| 200150 | 65.07 | 65.11 | 65.11 | 65.11 | 161.17 | 161.21 | 161.21 | 161.21 | 223.71 | 223.71 | 223.71 | 223.71 | 254.62 | 254.61 | 254.62 | 254.61 | 391.89 | 391.85 | 391.86 | 391.85 |
| 200160 | 39 | 38.99 | 38.99 | 38.99 | 94.42 | 94.43 | 94.43 | 94.43 | 115.68 | 115.68 | 115.68 | 115.68 | 126.5 | 126.5 | 126.5 | 126.5 | 179.78 | 179.78 | 179.78 | 179.78 |
| 200170 | 31.77 | 31.77 | 31.77 | 31.77 | 63.73 | 63.75 | 63.75 | 63.75 | 83.22 | 83.22 | 83.22 | 83.22 | 92.82 | 92.82 | 92.82 | 92.82 | 144.36 | 144.36 | 144.36 | 144.36 |
| 200180 | 23.86 | 23.86 | 23.86 | 23.86 | 52.6 | 52.6 | 52.6 | 52.6 | 69.14 | 69.14 | 69.14 | 69.14 | 77.38 | 77.38 | 77.38 | 77.38 | 130.09 | 130.09 | 130.09 | 130.09 |
| 200200 | 46.54 | 43.56 | 38.71 | 38.71 | 56.84 | 54.84 | 50.65 | 50.65 | 56.88 | 55.31 | 51.67 | 51.67 | 56.08 | 54.72 | 51.45 | 51.45 | 49.54 | 48.92 | 46. | |

Summary of Flow Results at all Nodes

| Node | 2.33YR24HR | | | | 25YR24HR | | | | 50YR24HR | | | | 100YR24HR | | | | 500YR24HR | | | |
|--------|-----------------------|---------------------------------|-----------------------|-----------------------------|-----------------------|---------------------------------|-----------------------|-----------------------------|-----------------------|---------------------------------|-----------------------|-----------------------------|-----------------------|---------------------------------|-----------------------|-----------------------------|-----------------------|---------------------------------|-----------------------|-----------------------------|
| | Effective Model (cfs) | Corrected Effective Model (cfs) | Proposed Bridge (cfs) | Proposed Box Culverts (cfs) | Effective Model (cfs) | Corrected Effective Model (cfs) | Proposed Bridge (cfs) | Proposed Box Culverts (cfs) | Effective Model (cfs) | Corrected Effective Model (cfs) | Proposed Bridge (cfs) | Proposed Box Culverts (cfs) | Effective Model (cfs) | Corrected Effective Model (cfs) | Proposed Bridge (cfs) | Proposed Box Culverts (cfs) | Effective Model (cfs) | Corrected Effective Model (cfs) | Proposed Bridge (cfs) | Proposed Box Culverts (cfs) |
| 201120 | 22.2 | 22.2 | 22.2 | 22.2 | 44.01 | 44.01 | 44.01 | 44.01 | 52.41 | 52.41 | 52.41 | 52.41 | 63.58 | 63.72 | 63.77 | 63.7 | 159.35 | 159.45 | 159.48 | 159.46 |
| 201130 | 18.34 | 18.35 | 18.35 | 18.35 | 31.41 | 31.41 | 31.41 | 31.41 | 45.97 | 46.44 | 46.56 | 46.35 | 58.68 | 59.15 | 59.21 | 59.11 | 135.67 | 135.91 | 135.91 | 135.93 |
| 201140 | 29.74 | 29.76 | 29.76 | 29.76 | 63.24 | 63.24 | 63.24 | 63.24 | 82.61 | 82.61 | 82.61 | 82.61 | 92.14 | 92.14 | 92.14 | 92.14 | 136.16 | 136.4 | 136.4 | 136.42 |
| 201150 | 11.49 | 11.49 | 11.49 | 11.49 | 32.94 | 32.95 | 32.95 | 32.95 | 40.9 | 40.9 | 40.9 | 40.9 | 45.38 | 45.38 | 45.38 | 45.38 | 48.95 | 48.96 | 48.96 | 48.97 |
| 201160 | 8.57 | 8.58 | 8.58 | 8.58 | 30.57 | 30.57 | 30.57 | 30.57 | 40.96 | 40.96 | 40.96 | 40.96 | 45.43 | 45.43 | 45.43 | 45.43 | 49.57 | 49.57 | 49.58 | 49.58 |
| 201170 | 12.07 | 12.07 | 12.07 | 12.07 | 33.1 | 33.1 | 33.1 | 33.1 | 47.45 | 47.45 | 47.45 | 47.45 | 54.18 | 54.18 | 54.18 | 54.18 | 101.57 | 101.57 | 101.57 | 101.58 |
| 201180 | 8.61 | 8.61 | 8.61 | 8.61 | 30.97 | 30.98 | 30.98 | 30.98 | 44.91 | 44.91 | 44.91 | 44.91 | 51.61 | 51.61 | 51.61 | 51.61 | 99.04 | 99.04 | 99.04 | 99.04 |
| 201190 | 39.97 | 39.97 | 39.97 | 39.97 | 80.43 | 80.43 | 80.43 | 80.43 | 103.33 | 103.33 | 103.33 | 103.33 | 114.72 | 114.72 | 114.72 | 114.72 | 200.97 | 200.97 | 200.97 | 200.97 |
| 201200 | 110.8 | 110.83 | 110.83 | 110.83 | 209.22 | 209.23 | 209.23 | 209.23 | 264.36 | 264.36 | 264.36 | 264.36 | 291.9 | 291.9 | 291.9 | 291.9 | 428.75 | 428.75 | 428.75 | 428.75 |
| 201210 | 51.4 | 51.41 | 51.41 | 51.41 | 86.75 | 86.76 | 86.76 | 86.76 | 104.34 | 104.34 | 104.34 | 104.34 | 112.48 | 112.48 | 112.48 | 112.48 | 150.38 | 150.38 | 150.38 | 150.38 |
| 201220 | 38.58 | 38.59 | 38.59 | 38.59 | 57.04 | 57.04 | 57.04 | 57.04 | 63.33 | 63.33 | 63.33 | 63.33 | 65.74 | 65.74 | 65.74 | 65.74 | 75.95 | 77 | 76.97 | 77.08 |
| 201230 | 40.22 | 40.23 | 40.23 | 40.23 | 69.52 | 69.53 | 69.53 | 69.53 | 86.53 | 86.53 | 86.53 | 86.53 | 94.37 | 94.37 | 94.37 | 94.37 | 132.97 | 132.97 | 132.97 | 132.97 |
| 201240 | 6.68 | 6.68 | 6.68 | 6.68 | 11.16 | 11.16 | 11.16 | 11.16 | 12.48 | 12.48 | 12.48 | 12.48 | 15.35 | 15.35 | 15.35 | 15.35 | 42.16 | 43.09 | 42.96 | 43.14 |
| 201250 | 7.1 | 7.1 | 7.1 | 7.1 | 13.44 | 13.44 | 13.44 | 13.44 | 16.75 | 16.75 | 16.75 | 16.75 | 18.49 | 21.48 | 21.66 | 21.18 | 42.34 | 43.37 | 43.21 | 43.42 |
| 201260 | 0.47 | 0.47 | 0.47 | 0.47 | 1.35 | 1.35 | 1.35 | 1.35 | 1.77 | 1.8 | 1.8 | 1.8 | 1.89 | 1.89 | 1.89 | 1.89 | 2.64 | 2.64 | 2.64 | 2.64 |
| 201270 | 17.55 | 17.55 | 17.55 | 17.55 | 32.76 | 32.76 | 32.76 | 32.76 | 41.35 | 41.35 | 41.35 | 41.35 | 45.63 | 45.63 | 45.63 | 45.63 | 68.21 | 68.21 | 68.21 | 68.21 |
| 201280 | 17.03 | 17.03 | 17.03 | 17.03 | 20.19 | 20.19 | 20.19 | 20.19 | 22.17 | 22.51 | 22.52 | 22.49 | 22.76 | 22.93 | 22.93 | 22.93 | 21.89 | 22.39 | 22.31 | 22.42 |
| 201290 | 36.56 | 36.56 | 36.56 | 36.56 | 64.59 | 64.58 | 64.58 | 64.58 | 78.36 | 78.36 | 78.36 | 78.36 | 85.04 | 85.04 | 85.04 | 85.04 | 117.5 | 117.5 | 117.5 | 117.5 |
| 201300 | 3.4 | 3.4 | 3.4 | 3.4 | 4.57 | 4.57 | 4.57 | 4.57 | 5.21 | 5.21 | 5.21 | 5.21 | 6.08 | 7.72 | 7.84 | 7.51 | 21.86 | 22.45 | 22.37 | 22.48 |
| 201310 | 20.21 | 20.21 | 20.21 | 20.21 | 37.72 | 37.72 | 37.72 | 37.72 | 47.61 | 47.61 | 47.61 | 47.61 | 52.54 | 52.54 | 52.54 | 52.54 | 78.53 | 78.53 | 78.53 | 78.53 |
| 201400 | 94.49 | 94.49 | 94.49 | 94.49 | 167.59 | 167.59 | 167.59 | 167.59 | 209.05 | 209.05 | 209.05 | 209.05 | 230.09 | 230.09 | 230.09 | 230.09 | 334.12 | 334.12 | 334.12 | 334.12 |
| 201410 | 51.4 | 51.4 | 51.4 | 51.4 | 69.73 | 69.73 | 69.73 | 69.73 | 76.9 | 76.9 | 76.9 | 76.9 | 79.92 | 79.92 | 79.92 | 79.92 | 93.35 | 93.35 | 93.35 | 93.35 |
| 201420 | 19.87 | 19.87 | 19.87 | 19.87 | 22.84 | 22.84 | 22.84 | 22.84 | 23.63 | 23.63 | 23.63 | 23.63 | 23.95 | 23.95 | 23.95 | 23.95 | 25.49 | 25.49 | 25.49 | 25.49 |
| 201430 | 0.66 | 0.66 | 0.66 | 0.66 | 2.1 | 2.1 | 2.1 | 2.1 | 2.9 | 2.9 | 2.9 | 2.9 | 3.65 | 3.65 | 3.65 | 3.65 | 8.31 | 8.31 | 8.31 | 8.31 |
| 201440 | 24.5 | 24.5 | 24.5 | 24.5 | 45.54 | 45.54 | 45.54 | 45.54 | 57.43 | 57.43 | 57.43 | 57.43 | 63.35 | 63.35 | 63.35 | 63.35 | 94.62 | 94.62 | 94.62 | 94.62 |
| 201450 | 24.95 | 24.97 | 24.97 | 24.97 | 47.52 | 47.52 | 47.52 | 47.52 | 57.65 | 57.65 | 57.65 | 57.65 | 62.34 | 62.34 | 62.34 | 62.34 | 84.78 | 84.78 | 84.78 | 84.78 |
| 201460 | 25.19 | 25.21 | 25.21 | 25.21 | 52.72 | 52.73 | 52.73 | 52.73 | 68.11 | 68.11 | 68.11 | 68.11 | 75.13 | 75.13 | 75.13 | 75.13 | 108.25 | 108.25 | 108.25 | 108.25 |
| 201470 | 6.08 | 6.08 | 6.08 | 6.08 | 28.77 | 28.77 | 28.77 | 28.77 | 33.7 | 33.7 | 33.7 | 33.7 | 35.17 | 35.17 | 35.17 | 35.17 | 46 | 46 | 46 | 46 |
| 201480 | 17.04 | 17.04 | 17.04 | 17.04 | 35.87 | 35.87 | 35.87 | 35.87 | 46.58 | 46.58 | 46.58 | 46.58 | 51.9 | 51.9 | 51.9 | 51.9 | 79.85 | 79.85 | 79.85 | 79.85 |
| 201490 | 36.08 | 36.08 | 36.08 | 36.08 | 74.67 | 74.67 | 74.67 | 74.67 | 96.29 | 96.29 | 96.29 | 96.29 | 107.03 | 107.03 | 107.03 | 107.03 | 163.27 | 163.27 | 163.27 | 163.27 |
| 201500 | 2.83 | 2.83 | 2.83 | 2.83 | 4.34 | 4.34 | 4.34 | 4.34 | 5.22 | 5.22 | 5.22 | 5.22 | 5.67 | 5.67 | 5.67 | 5.67 | 10.62 | 10.62 | 10.62 | 10.62 |
| 201510 | 6.77 | 6.77 | 6.77 | 6.77 | 13.46 | 13.46 | 13.46 | 13.46 | 17.23 | 17.23 | 17.23 | 17.23 | 19.1 | 19.1 | 19.1 | 19.1 | 28.96 | 28.96 | 28.96 | 28.96 |
| 201600 | 26.58 | 26.62 | 26.62 | 26.62 | 51.95 | 51.94 | 51.94 | 51.94 | 64.21 | 64.21 | 64.21 | 64.21 | 70.92 | 70.92 | 70.92 | 70.92 | 111.42 | 111.42 | 111.42 | 111.42 |
| 201610 | 48.06 | 48.06 | 48.06 | 48.06 | 113.95 | 113.94 | 113.94 | 113.94 | 138.5 | 138.5 | 138.5 | 138.5 | 149.45 | 149.45 | 149.45 | 149.45 | 226.6 | 226.6 | 226.6 | 226.6 |
| 201620 | 48.43 | 48.43 | 48.43 | 48.43 | 99.95 | 99.95 | 99.95 | 99.95 | 127.83 | 127.83 | 127.83 | 127.83 | 140.75 | 140.75 | 140.75 | 140.75 | 206.32 | 206.32 | 206.32 | 206.32 |
| 201630 | 2.99 | 2.99 | 2.99 | 2.99 | 5.9 | 5.9 | 5.9 | 5.9 | 7.37 | 7.37 | 7.37 | 7.37 | 7.99 | 7.99 | 7.99 | 7.99 | 18.9 | 18.99 | 18.9 | 18.97 |
| 201640 | 48.07 | 48.07 | 48.07 | 48.07 | 91.35 | 91.35 | 91.35 | 91.35 | 115.8 | 115.8 | 115.8 | 115.8 | 127.97 | 127.97 | 127.97 | 127.97 | 192.11 | 192.11 | 192.11 | 192.11 |
| 201650 | 15.14 | 15.14 | 15.14 | 15.14 | 18.6 | 18.6 | 18.6 | 18.6 | 23.38 | 23.38 | 23.38 | 23.38 | 25.76 | 25.76 | 25.76 | 25.76 | 38.36 | 38.36 | 38.36 | 38.36 |
| 201660 | 4.5 | 4.5 | 4.5 | 4.5 | 4.64 | 4.64 | 4.64 | 4.64 | 4.67 | 4.67 | 4.67 | 4.67 | 5.54 | 5.55 | 5.56 | 5.56 | 6.63 | 6.42 | 6.44 | 6.43 |
| 201670 | 23.62 | 23.62 | 23.62 | 23.62 | 46.23 | 46.23 | 46.23 | 46.23 | 58.97 | 58.97 | 58.97 | 58.97 | 65.31 | 65.31 | 65.31 | 65.31 | 99.62 | 99.62 | 99.62 | 99.62 |
| 201700 | 33.58 | 33.58 | 33.58 | 33.58 | 65.6 | 65.6 | 65.6 | 65.6 | 82.11 | 82.11 | 82.11 | 82.11 | 89.9 | 89.9 | 89.9 | 89.9 | 129 | 129 | 129 | 129 |
| 201710 | 42.41 | 42.41 | 42.41 | 42.41 | 80.12 | 80.12 | 80.12 | 80.12 | 101.4 | 101.4 | 101.4 | 101.4 | 112 | 112 | 112 | 112 | 167.84 | 167.84 | 167.84 | 167.84 |
| 201720 | 13.24 | 13.25 | 13.25 | 13.25 | 16.59 | 16.58 | 16.58 | 16.58 | 16.01 | 16.01 | 16.01 | 16.01 | 16.36 | 16.36 | 16.36 | 16.36 | 18.08 | 18.07 | 18.08 | 18.07 |
| 201730 | 13.33 | 13.34 | 13.34 | 13.34 | 19.99 | 20 | 20 | 20 | 23.96 | 23.96 | 23.96 | 23.96 | 25.49 | 25.49 | 25.49 | 25.49 | 28.27 | 28.27 | 28.27 | 28.27 |
| 201740 | 14.41 | 14.42 | 14.42 | 14.42 | 25.94 | 25.95 | 25.95 | 25.95 | 42.48 | 42.39 | 42.4 | 42.38 | 49.59 | 49.48 | 49.49 | 49.47 | 66.85 | 66.79 | 66.8 | 66.78 |
| 201750 | 24.58 | 24.6 | 24.6 | 24.6 | 41.46 | 41.46 | 41.46 | 41.46 | 59.01 | 59.01 | 59.01 | 59.01 | 69.76 | 69.75 | 69.75 | 69.75 | 107.5 | 107.48 | 107.49 | 107.48 |
| 201760 | 4.76 | 4.76 | 4.76 | 4.76 | 3.43 | 3.43 | 3.43 | 3.43 | 3.23 | 3.23 | 3.23 | 3.23 | 3.22 | 3.22 | 3.22 | 3.22 | 4.31 | 4.31 | 4.31 | 4.31 |
| 201770 | 42.36 | 42.34 | 42.34 | 42.34 | 59.6 | 59.62 | 59.62 | 59.62 | 82.55 | 82.55 | 82.55 | 82.55 | 92.56 | 92.56 | 92.56 | 92.56 | 145.86 | 145.86 | 145.86 | 145.86 |
| 201780 | 70.05 | 70.11 | 70.11 | 70.11 | 230.6 | 230.65 | 230.65 | 230.65 | 326.61 | 326.61 | 326.61 | 326.61 | 381.71 | 381.71 | 381.71 | 381.71 | 647.84 | 647.84 | 647.84 | 647.84 |
| 201900 | 33.49 | 33.52 | 33.52 | 33.52 | 45.29 | 45.3 | 45.3 | 45.3 | 73.49 | 73.48 | 73.48 | 73.48 | 85.72 | 85.66 | 85.67 | 85.66 | 113.31 | 113.25 | 113.26 | 113.24 |
| 201910 | 25.71 | 25.72 | 25.72 | 25.72 | 46.19 | 46.2 | 46.2 | 46.2 | 75.56 | 75.55 | 75.55 | 75.54 | 88.77 | 88.72 | 88.73 | 88.72 | 121.74 | 121.69 | 121.7 | 121.69 |
| 201920 | 47.58 | 47.58 | 47.58 | 47.58 | 110.91 | 110.91 | 110.91 | 110.91 | 156.07 | 156.07 | 156.07 | 156.07 | 177.59 | 177.59 | 177.59 | 177.59 | 285.34 | 285.34 | 285.34 | 285.34 |
| 201930 | 7.07 | 7.07 | 7.07 | 7.07 | 12 | 12 | 12 | 12 | 12.76 | 12.76 | 12.76 | 12.76 | 12.92 | 12.92 | 12.92 | 12.92 | 13.19 | 13.19 | 13.19 | 13.19 |
| 201940 | 24.35 | 24.35 | 24.35 | 24.35 | 47.93 | 47.93 | 47.93 | 47.93 | 61.25 | 61.25 | 61.25 | 61.25 | 67.88 | 67.88 | 67.88 | 67.88 | 102.73 | 102.73 | 102.73 | 102.73 |
| 201950 | 23.2 | 23.21 | 23.21 | 23.21 | 56.34 | 56.35 | 56.35 | 56.35 | 76.21 | 76.21 | 76.21 | 76.21 | 86.47 | 86.47 | 86.47 | 86.47 | 128.82 | 128.82 | 128.82 | 128.82 |
| 201952 | 20.37 | 20.39 | 20.39 | 20.39 | 30.57 | 30.57 | 30.57 | 30.57 | 35.41 | 35.41 | 35.41 | 35.41 | 37.68 | 37.68 | 37.68 | 37.68 | 45.31 | | | |

Summary of Flow Results at all Nodes

| Node | 2.33YR24HR | | | | 25YR24HR | | | | 50YR24HR | | | | 100YR24HR | | | | 500YR24HR | | | |
|--------|-----------------------|---------------------------------|-----------------------|-----------------------------|-----------------------|---------------------------------|-----------------------|-----------------------------|-----------------------|---------------------------------|-----------------------|-----------------------------|-----------------------|---------------------------------|-----------------------|-----------------------------|-----------------------|---------------------------------|-----------------------|-----------------------------|
| | Effective Model (cfs) | Corrected Effective Model (cfs) | Proposed Bridge (cfs) | Proposed Box Culverts (cfs) | Effective Model (cfs) | Corrected Effective Model (cfs) | Proposed Bridge (cfs) | Proposed Box Culverts (cfs) | Effective Model (cfs) | Corrected Effective Model (cfs) | Proposed Bridge (cfs) | Proposed Box Culverts (cfs) | Effective Model (cfs) | Corrected Effective Model (cfs) | Proposed Bridge (cfs) | Proposed Box Culverts (cfs) | Effective Model (cfs) | Corrected Effective Model (cfs) | Proposed Bridge (cfs) | Proposed Box Culverts (cfs) |
| 210320 | 148.07 | 148.1 | 148.1 | 148.1 | 258.6 | 258.64 | 258.64 | 258.64 | 315.02 | 315.02 | 315.02 | 315.02 | 342.28 | 342.28 | 342.28 | 342.28 | 481.68 | 481.68 | 481.69 | 481.68 |
| 210330 | 146.35 | 146.39 | 146.39 | 146.39 | 255.71 | 255.74 | 255.74 | 255.74 | 309.94 | 309.94 | 309.94 | 309.94 | 337.18 | 337.18 | 337.18 | 337.18 | 456.93 | 456.93 | 456.93 | 456.93 |
| 210340 | 128.61 | 128.64 | 128.64 | 128.64 | 220.97 | 220.99 | 220.99 | 220.99 | 272.43 | 272.43 | 272.43 | 272.43 | 296.57 | 296.57 | 296.57 | 296.57 | 417.86 | 417.86 | 417.86 | 417.86 |
| 210350 | 145.53 | 145.56 | 145.56 | 145.56 | 233.03 | 233.05 | 233.05 | 233.05 | 273.39 | 273.39 | 273.39 | 273.39 | 293.56 | 293.56 | 293.56 | 293.56 | 399.11 | 399.11 | 399.11 | 399.11 |
| 210360 | 161.2 | 161.25 | 161.25 | 161.25 | 281.57 | 281.57 | 281.57 | 281.57 | 338.44 | 338.44 | 338.44 | 338.44 | 365.81 | 365.81 | 365.81 | 365.81 | 502.27 | 502.27 | 502.27 | 502.27 |
| 210370 | 103.5 | 103.51 | 103.51 | 103.51 | 174.11 | 174.12 | 174.12 | 174.12 | 212.26 | 212.26 | 212.26 | 212.26 | 229.99 | 229.99 | 229.99 | 229.99 | 302.5 | 302.5 | 302.5 | 302.5 |
| 210380 | 188.89 | 188.9 | 188.9 | 188.9 | 369.56 | 369.57 | 369.57 | 369.57 | 455.99 | 455.99 | 455.99 | 455.99 | 497.2 | 497.2 | 497.2 | 497.2 | 699.61 | 699.61 | 699.61 | 699.61 |
| 210390 | 152.6 | 152.66 | 152.66 | 152.66 | 384.11 | 384.17 | 384.17 | 384.17 | 528.6 | 528.6 | 528.6 | 528.6 | 600.49 | 600.49 | 600.49 | 600.49 | 984.07 | 984.07 | 984.07 | 984.07 |
| 210400 | 121.3 | 121.32 | 121.32 | 121.32 | 210.27 | 210.29 | 210.29 | 210.29 | 243.48 | 243.48 | 243.48 | 243.48 | 259.94 | 259.94 | 259.94 | 259.94 | 323.8 | 323.8 | 323.8 | 323.8 |
| 210410 | 117.21 | 117.23 | 117.23 | 117.23 | 206.25 | 206.27 | 206.27 | 206.27 | 239.25 | 239.25 | 239.25 | 239.25 | 255.43 | 255.43 | 255.43 | 255.43 | 314.14 | 314.14 | 314.14 | 314.14 |
| 210420 | 109.68 | 109.7 | 109.7 | 109.7 | 176.94 | 176.95 | 176.95 | 176.95 | 204.32 | 204.32 | 204.32 | 204.32 | 220.13 | 220.13 | 220.13 | 220.13 | 268.38 | 268.38 | 268.38 | 268.38 |
| 210430 | 109.28 | 109.3 | 109.3 | 109.3 | 176.25 | 176.26 | 176.26 | 176.26 | 202.12 | 202.12 | 202.12 | 202.12 | 216.45 | 216.45 | 216.45 | 216.45 | 263.65 | 263.65 | 263.65 | 263.65 |
| 210450 | 108.45 | 108.47 | 108.47 | 108.47 | 176.38 | 176.39 | 176.39 | 176.39 | 201.19 | 201.19 | 201.19 | 201.19 | 206.33 | 206.33 | 206.33 | 206.33 | 226.44 | 226.44 | 226.44 | 226.44 |
| 210460 | 110 | 110.02 | 110.02 | 110.02 | 179.55 | 179.56 | 179.56 | 179.56 | 205.31 | 205.31 | 205.31 | 205.31 | 212.7 | 212.7 | 212.7 | 212.7 | 315.8 | 315.8 | 315.8 | 315.8 |
| 210470 | 109.32 | 109.34 | 109.34 | 109.34 | 178.58 | 178.59 | 178.59 | 178.59 | 204.43 | 204.43 | 204.43 | 204.43 | 211.67 | 211.67 | 211.67 | 211.67 | 232.84 | 232.84 | 232.84 | 232.84 |
| 210480 | 108.68 | 108.69 | 108.69 | 108.69 | 165.08 | 165.08 | 165.08 | 165.08 | 164.71 | 164.71 | 164.71 | 164.71 | 164.18 | 164.18 | 164.18 | 164.18 | 161.2 | 161.2 | 161.2 | 161.2 |
| 210490 | 110.18 | 110.2 | 110.2 | 110.2 | 180.44 | 180.45 | 180.45 | 180.45 | 208.13 | 208.13 | 208.13 | 208.13 | 217.93 | 217.93 | 217.93 | 217.93 | 254.45 | 254.45 | 254.45 | 254.45 |
| 210500 | 67.86 | 67.88 | 67.88 | 67.88 | 119.99 | 120.01 | 120.01 | 120.01 | 140.87 | 140.87 | 140.87 | 140.87 | 144.83 | 144.83 | 144.83 | 144.83 | 162.42 | 162.42 | 162.42 | 162.42 |
| 210510 | 82.26 | 82.3 | 82.3 | 82.3 | 158.08 | 158.11 | 158.11 | 158.11 | 198.64 | 198.64 | 198.64 | 198.64 | 216.46 | 216.46 | 216.46 | 216.46 | 291.82 | 291.82 | 291.82 | 291.82 |
| 210520 | 65.55 | 65.56 | 65.56 | 65.56 | 97.07 | 97.08 | 97.08 | 97.08 | 110.92 | 110.92 | 110.92 | 110.92 | 116.99 | 116.99 | 116.99 | 116.99 | 150.75 | 150.75 | 150.75 | 150.75 |
| 210530 | 9.75 | 9.75 | 9.75 | 9.75 | 21.72 | 21.72 | 21.72 | 21.72 | 28.85 | 28.85 | 28.85 | 28.85 | 32.46 | 32.46 | 32.46 | 32.46 | 67.9 | 67.9 | 67.9 | 67.9 |
| 210540 | 9.73 | 9.74 | 9.74 | 9.74 | 21.67 | 21.68 | 21.68 | 21.68 | 28.79 | 28.79 | 28.79 | 28.79 | 32.47 | 32.47 | 32.47 | 32.47 | 68.47 | 68.47 | 68.47 | 68.47 |
| 210550 | 84.54 | 84.59 | 84.59 | 84.59 | 169.75 | 169.82 | 169.82 | 169.82 | 216.55 | 216.55 | 216.55 | 216.55 | 236 | 236 | 236 | 236 | 329.28 | 329.28 | 329.28 | 329.28 |
| 210560 | 31.03 | 31.06 | 31.06 | 31.06 | 70.02 | 70.07 | 70.07 | 70.07 | 90.33 | 90.33 | 90.33 | 90.33 | 97.7 | 97.7 | 97.7 | 97.7 | 137.6 | 137.6 | 137.6 | 137.6 |
| 210570 | 24.92 | 24.95 | 24.95 | 24.95 | 51.25 | 51.27 | 51.27 | 51.27 | 67.73 | 67.73 | 67.73 | 67.73 | 75.31 | 75.31 | 75.31 | 75.31 | 118.04 | 118.04 | 118.04 | 118.04 |
| 210580 | 11.6 | 11.6 | 11.6 | 11.6 | 38.48 | 38.48 | 38.48 | 38.48 | 61.54 | 61.54 | 61.54 | 61.54 | 73.11 | 73.11 | 73.11 | 73.11 | 128.3 | 128.3 | 128.3 | 128.3 |
| 210590 | 3.27 | 3.27 | 3.27 | 3.27 | 17.46 | 17.46 | 17.46 | 17.46 | 31.11 | 31.11 | 31.11 | 31.11 | 40.73 | 40.73 | 40.73 | 40.73 | 76.34 | 76.34 | 76.34 | 76.34 |
| 210600 | 93.33 | 93.33 | 93.33 | 93.33 | 291.82 | 291.84 | 291.84 | 291.84 | 426.03 | 426.03 | 426.03 | 426.03 | 497.46 | 497.46 | 497.46 | 497.46 | 860.44 | 860.44 | 860.44 | 860.44 |
| 210610 | 0.51 | 0.51 | 0.51 | 0.51 | 1.48 | 1.48 | 1.48 | 1.48 | 2.09 | 2.09 | 2.09 | 2.09 | 3.78 | 3.78 | 3.78 | 3.78 | 12.86 | 11.83 | 11.83 | 11.83 |
| 210620 | 56.59 | 56.59 | 56.59 | 56.59 | 141.4 | 141.4 | 141.4 | 141.4 | 195.86 | 195.86 | 195.86 | 195.86 | 224.96 | 224.96 | 224.96 | 224.96 | 366.25 | 366.25 | 366.25 | 366.25 |
| 210630 | 4.62 | 4.62 | 4.62 | 4.62 | 16.67 | 16.67 | 16.67 | 16.67 | 29.95 | 29.95 | 29.95 | 29.95 | 39.98 | 39.98 | 39.98 | 39.98 | 66.5 | 66.5 | 66.5 | 66.5 |
| 210640 | 0.42 | 0.42 | 0.42 | 0.42 | 9.6 | 9.6 | 9.6 | 9.6 | 24.57 | 24.57 | 24.57 | 24.57 | 30.8 | 30.8 | 30.8 | 30.8 | 79.51 | 79.51 | 79.51 | 79.51 |
| 210650 | 0 | 0 | 0 | 0 | 8.98 | 8.98 | 8.98 | 8.98 | 16.32 | 16.32 | 16.32 | 16.32 | 20.34 | 20.34 | 20.34 | 20.34 | 48.68 | 48.68 | 48.68 | 48.68 |
| 210660 | 4.39 | 4.39 | 4.39 | 4.39 | 8.84 | 8.84 | 8.84 | 8.84 | 10.1 | 10.1 | 10.1 | 10.1 | 14 | 14 | 14 | 14 | 33.52 | 33.52 | 33.52 | 33.52 |
| 210670 | 17.57 | 17.57 | 17.57 | 17.57 | 39.14 | 39.14 | 39.14 | 39.14 | 52.11 | 52.11 | 52.11 | 52.11 | 58.08 | 58.08 | 58.08 | 58.08 | 86.53 | 86.53 | 86.53 | 86.53 |
| 210680 | 16.52 | 16.52 | 16.52 | 16.52 | 31.42 | 31.42 | 31.42 | 31.42 | 39.82 | 39.82 | 39.82 | 39.82 | 44.01 | 44.01 | 44.01 | 44.01 | 66.03 | 66.03 | 66.03 | 66.03 |
| 210700 | 32.76 | 34 | 32.67 | 32.17 | 60.08 | 60.04 | 59.85 | 60.57 | 65.46 | 65.55 | 65.54 | 65.95 | 73.29 | 72.94 | 72 | 71.5 | 109.03 | 108.68 | 107.2 | 107.15 |
| 210710 | 42.68 | 43.11 | 42.32 | 42.22 | 81.44 | 82.3 | 81.68 | 81.34 | 101.61 | 102.56 | 102.05 | 101.56 | 111.48 | 112.32 | 111.85 | 111.43 | 161.33 | 161.43 | 160.94 | 160.49 |
| 210720 | 23.49 | 22.93 | 22.16 | 22.97 | 49.04 | 48.96 | 48.97 | 49.24 | 54.16 | 53.89 | 54.03 | 54.14 | 56.69 | 56.19 | 56.42 | 56.48 | 66.11 | 65.08 | 65.62 | 65.28 |
| 210730 | 67.44 | 66.74 | 64.33 | 64.33 | 140.56 | 140.13 | 137.94 | 137.94 | 178.98 | 178.93 | 177.18 | 177.18 | 197.81 | 197.83 | 196.33 | 196.36 | 293.4 | 293.19 | 292.19 | 292.86 |
| 210740 | 27.56 | 26.84 | 25.73 | 26.87 | 53.09 | 52.62 | 52.93 | 53.31 | 61.35 | 58.21 | 58.89 | 58.84 | 64.79 | 60.52 | 61.4 | 61.16 | 72.08 | 67.94 | 69.6 | 68.38 |
| 210750 | 52.92 | 52.98 | 46.54 | 46.54 | 100.69 | 102.87 | 95.77 | 95.77 | 127.47 | 130.12 | 122.61 | 122.61 | 141.12 | 144.02 | 136.16 | 136.16 | 212.26 | 215 | 205.96 | 211.69 |
| 210760 | 19.75 | 21.78 | 21.69 | 21.69 | 26.28 | 29.04 | 29.47 | 29.36 | 27.65 | 30.26 | 30.93 | 30.66 | 27.68 | 30.39 | 31.16 | 30.89 | 54.76 | 39.48 | 42.45 | 41.32 |
| 210770 | 19.92 | 22.08 | 22.17 | 22.17 | 26.69 | 29.31 | 30.21 | 30.21 | 29.7 | 33.53 | 34.89 | 34.89 | 31.06 | 35.37 | 36.86 | 36.86 | 55.05 | 42.69 | 44.36 | 44.24 |
| 210780 | 20.88 | 23.06 | 23.22 | 23.22 | 29.34 | 32.04 | 32.82 | 32.82 | 55.32 | 37.28 | 38.28 | 38.28 | 81.49 | 39.8 | 40.96 | 40.96 | 180.68 | 49.39 | 51.1 | 51.03 |
| 210790 | 39.8 | 39.8 | 41.34 | 41.34 | 77.29 | 77.29 | 80.28 | 80.28 | 98.43 | 98.43 | 102.25 | 102.25 | 108.95 | 108.95 | 113.17 | 113.17 | 170.5 | 164.3 | 170.65 | 170.65 |
| 210800 | 31 | 27.42 | 27.35 | 27.35 | 76 | 69.74 | 69.95 | 69.95 | 99.47 | 95.55 | 95.78 | 95.78 | 112.36 | 108.63 | 108.86 | 108.86 | 192.72 | 179.11 | 179.71 | 179.82 |
| 210810 | 64.21 | 63.71 | 61.88 | 67.31 | 131.18 | 130.27 | 131.16 | 134.68 | 171.6 | 177.26 | 181.7 | 181.7 | 197.16 | 203.22 | 209.68 | 207.84 | 319.15 | 328.72 | 343.78 | 339.95 |
| 210900 | 28.31 | 33.21 | 35.19 | 29.17 | 97.04 | 101.31 | 104.98 | 98.87 | 121.08 | 127.56 | 130.2 | 123.98 | 132.55 | 139.7 | 141.68 | 135.69 | 203.69 | 209.18 | 204.94 | 200.4 |
| 210910 | 1.59 | 2.61 | 1.48 | 1.48 | 3.08 | 4.37 | 3.54 | 3.13 | 4.24 | 5.48 | 3.95 | 4.02 | 4.01 | 7.11 | 4.99 | 5.19 | 8.59 | 11.39 | 9.43 | 9.16 |
| 210920 | 2.24 | 3.44 | 2.16 | 2.16 | 4.89 | 5.76 | 4.95 | 4.95 | 7.22 | 6.63 | 5.88 | 5.88 | 10.93 | 8.78 | 7.93 | 7.97 | 23.77 | 14.5 | 14.84 | 14.88 |
| 210930 | 1.35 | 2.55 | 1.31 | 1.31 | 2.73 | 3.72 | 3.1 | 2.77 | 7.18 | 4.26 | 4.49 | 4.27 | 10.91 | 4.61 | 5.09 | 5.02 | 23.75 | 7.88 | 7.75 | 8.44 |
| 210940 | 1.61 | 2.73 | 1.59 | 1.59 | 2.85 | 3.95 | 2.98 | 2.94 | 3.52 | 4.31 | 4.08 | 3.9 | 3.77 | 4.59 | 4.47 | 4.43 | 5.81 | 5.76 | 5.29 | 5.7 |
| 210950 | 2.55 | 3.26 | 2.55 | 2.55 | 3.27 | 4.28 | 3.44 | 3.45 | 3.83 | 4.71 | 4.05 | 4.06 | 4.03 | 4.86 | 4.41 | 4.38 | 5.92 | 5.74 | 5.41 | 5.64 |
| 210960 | 4.71 | 4.71 | 4.71 | 4.71 | | | | | | | | | | | | | | | | |

Summary of Flow Results at all Nodes

| Node | 2.33YR24HR | | | | 25YR24HR | | | | 50YR24HR | | | | 100YR24HR | | | | 500YR24HR | | | |
|--------|-----------------------|---------------------------------|-----------------------|-----------------------------|-----------------------|---------------------------------|-----------------------|-----------------------------|-----------------------|---------------------------------|-----------------------|-----------------------------|-----------------------|---------------------------------|-----------------------|-----------------------------|-----------------------|---------------------------------|-----------------------|-----------------------------|
| | Effective Model (cfs) | Corrected Effective Model (cfs) | Proposed Bridge (cfs) | Proposed Box Culverts (cfs) | Effective Model (cfs) | Corrected Effective Model (cfs) | Proposed Bridge (cfs) | Proposed Box Culverts (cfs) | Effective Model (cfs) | Corrected Effective Model (cfs) | Proposed Bridge (cfs) | Proposed Box Culverts (cfs) | Effective Model (cfs) | Corrected Effective Model (cfs) | Proposed Bridge (cfs) | Proposed Box Culverts (cfs) | Effective Model (cfs) | Corrected Effective Model (cfs) | Proposed Bridge (cfs) | Proposed Box Culverts (cfs) |
| 211490 | 3.96 | 3.96 | 3.96 | 3.96 | 4.51 | 4.51 | 4.51 | 4.51 | 5.24 | 5.24 | 5.24 | 5.24 | 5.53 | 5.53 | 5.53 | 5.53 | 6.67 | 6.67 | 6.67 | 6.67 |
| 211500 | 4.76 | 4.76 | 4.76 | 4.76 | 8.98 | 8.98 | 8.98 | 8.98 | 11.35 | 11.35 | 11.35 | 11.35 | 12.53 | 12.53 | 12.53 | 12.53 | 18.77 | 18.77 | 18.77 | 18.77 |
| 211510 | 1.15 | 1.15 | 1.15 | 1.15 | 2.2 | 2.2 | 2.2 | 2.2 | 2.71 | 2.71 | 2.71 | 2.71 | 2.94 | 2.94 | 2.94 | 2.94 | 5.92 | 5.92 | 5.92 | 5.92 |
| 211520 | 3.11 | 3.11 | 3.11 | 3.11 | 5.85 | 5.85 | 5.85 | 5.85 | 7.39 | 7.39 | 7.39 | 7.39 | 8.16 | 8.16 | 8.16 | 8.16 | 12.21 | 12.21 | 12.21 | 12.21 |
| 211530 | 4.13 | 4.13 | 4.13 | 4.13 | 7.76 | 7.76 | 7.76 | 7.76 | 9.8 | 9.8 | 9.8 | 9.8 | 10.82 | 10.82 | 10.82 | 10.82 | 16.2 | 16.2 | 16.2 | 16.2 |
| 211540 | 25.61 | 25.72 | 25.72 | 25.72 | 34.39 | 34.52 | 34.51 | 34.51 | 39.27 | 39.27 | 39.27 | 39.27 | 41.67 | 41.69 | 41.66 | 41.69 | 40.45 | 40.63 | 40.48 | 40.62 |
| 211550 | 26.14 | 26.21 | 26.21 | 26.21 | 35.48 | 35.54 | 35.53 | 35.54 | 40.41 | 40.42 | 40.41 | 40.41 | 43.09 | 43.09 | 43.09 | 43.09 | 58.13 | 58.16 | 58.14 | 58.16 |
| 211560 | 14.71 | 14.75 | 14.75 | 14.75 | 14.38 | 14.36 | 14.35 | 14.35 | 14.94 | 14.94 | 14.94 | 14.94 | 16.46 | 16.46 | 16.46 | 16.46 | 24.49 | 24.49 | 24.49 | 24.49 |
| 211570 | 12.16 | 12.18 | 12.18 | 12.18 | 12.41 | 12.39 | 12.38 | 12.39 | 12.23 | 12.23 | 12.22 | 12.22 | 12.41 | 12.41 | 12.4 | 12.41 | 9.05 | 9.09 | 9.04 | 9.09 |
| 211580 | 2.76 | 2.77 | 2.77 | 2.77 | 7.54 | 7.54 | 7.54 | 7.54 | 9.03 | 9.03 | 9.02 | 9.03 | 8.79 | 8.79 | 8.79 | 8.79 | 6.63 | 6.66 | 6.62 | 6.66 |
| 211590 | 2.43 | 2.43 | 2.43 | 2.43 | 5.12 | 5.1 | 5.1 | 5.1 | 14.78 | 14.74 | 14.76 | 14.74 | 17 | 16.96 | 16.98 | 16.96 | 22.77 | 22.74 | 22.75 | 22.74 |
| 211600 | 7.48 | 7.48 | 7.48 | 7.48 | 30.22 | 30.26 | 30.26 | 30.26 | 70.97 | 70.95 | 70.96 | 70.95 | 84.93 | 84.92 | 84.93 | 84.92 | 137.07 | 137.08 | 137.07 | 137.08 |
| 211605 | 9.71 | 9.71 | 9.71 | 9.71 | 22.58 | 22.64 | 22.64 | 22.64 | 52.24 | 52.24 | 52.25 | 52.24 | 62.37 | 62.37 | 62.37 | 62.37 | 108.43 | 108.42 | 108.43 | 108.42 |
| 211610 | 11.26 | 11.26 | 11.26 | 11.26 | 21.99 | 21.99 | 21.99 | 21.99 | 28.04 | 28.04 | 28.04 | 28.04 | 31.05 | 31.05 | 31.05 | 31.05 | 52.27 | 52.26 | 52.27 | 52.26 |
| 211620 | 5.57 | 5.57 | 5.57 | 5.57 | 13.68 | 13.68 | 13.68 | 13.68 | 17.46 | 17.48 | 17.46 | 17.48 | 18.11 | 18.13 | 18.11 | 18.13 | 18.28 | 18.35 | 18.29 | 18.35 |
| 211630 | 60.62 | 60.62 | 60.62 | 60.62 | 60.62 | 60.62 | 60.62 | 60.62 | 60.62 | 60.62 | 60.62 | 60.62 | 60.62 | 60.62 | 60.62 | 60.62 | 69.02 | 69.03 | 69.02 | 69.03 |
| 211640 | 24.89 | 24.89 | 24.89 | 24.89 | 36.83 | 36.83 | 36.83 | 36.83 | 40.16 | 40.16 | 40.16 | 40.16 | 41.43 | 41.43 | 41.43 | 41.43 | 43.49 | 43.49 | 43.49 | 43.49 |
| 211650 | 27.86 | 27.86 | 27.86 | 27.86 | 52.3 | 52.3 | 52.3 | 52.3 | 66.09 | 66.09 | 66.09 | 66.09 | 72.96 | 72.96 | 72.96 | 72.96 | 109.18 | 109.18 | 109.18 | 109.18 |
| 211660 | 16.78 | 16.78 | 16.78 | 16.78 | 66.36 | 66.21 | 66.32 | 66.22 | 105.19 | 104.91 | 104.98 | 104.9 | 121.94 | 121.67 | 121.74 | 121.66 | 206.13 | 205.88 | 205.98 | 205.87 |
| 211670 | 26.01 | 26 | 26.01 | 25.99 | 30.16 | 30.08 | 30.11 | 30.08 | 29.04 | 28.97 | 28.98 | 28.96 | 27.68 | 27.63 | 27.62 | 27.61 | 15.36 | 15.45 | 15.34 | 15.44 |
| 211680 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 211690 | 24.52 | 24.52 | 24.52 | 24.51 | 37.1 | 36.52 | 36.75 | 36.53 | 50.78 | 50.38 | 50.51 | 50.36 | 54.55 | 54.21 | 54.3 | 54.18 | 67.57 | 67.54 | 67.42 | 67.51 |
| 211700 | 25.5 | 25.5 | 25.5 | 25.5 | 50.38 | 50.38 | 50.38 | 50.38 | 64.12 | 64.12 | 64.12 | 64.12 | 70.9 | 70.9 | 70.9 | 70.9 | 108.33 | 108.34 | 108.34 | 108.34 |
| 211710 | 14.49 | 14.49 | 14.49 | 14.49 | 27.2 | 27.2 | 27.2 | 27.2 | 35.27 | 35.27 | 35.27 | 35.27 | 39.42 | 39.42 | 39.42 | 39.42 | 61.05 | 61.05 | 61.05 | 61.05 |
| 211720 | 9.08 | 9.08 | 9.08 | 9.08 | 20.25 | 20.25 | 20.25 | 20.25 | 26.77 | 26.77 | 26.77 | 26.77 | 30.03 | 30.03 | 30.03 | 30.03 | 47.24 | 47.24 | 47.24 | 47.24 |
| 211730 | 6.87 | 6.87 | 6.87 | 6.87 | 15.02 | 15.02 | 15.02 | 15.02 | 19.71 | 19.71 | 19.71 | 19.71 | 22.04 | 22.04 | 22.04 | 22.04 | 34.32 | 34.32 | 34.32 | 34.32 |
| 211740 | 17.74 | 17.74 | 17.74 | 17.74 | 38.33 | 38.33 | 38.33 | 38.33 | 50.1 | 50.1 | 50.1 | 50.1 | 55.96 | 55.96 | 55.96 | 55.96 | 86.71 | 86.71 | 86.71 | 86.71 |
| 211750 | 26.09 | 26.09 | 26.09 | 26.09 | 59.02 | 59.02 | 59.02 | 59.02 | 80.83 | 80.83 | 80.83 | 80.83 | 92.18 | 92.18 | 92.18 | 92.18 | 147.87 | 147.87 | 147.87 | 147.87 |
| 211760 | 25.95 | 25.95 | 25.95 | 25.95 | 67.86 | 67.86 | 67.86 | 67.86 | 108.22 | 108.22 | 108.22 | 108.22 | 131.48 | 131.48 | 131.48 | 131.48 | 223.3 | 223.3 | 223.3 | 223.3 |
| 211770 | 4.87 | 4.86 | 4.86 | 4.86 | 8.6 | 8.6 | 8.6 | 8.6 | 10.81 | 10.81 | 10.81 | 10.81 | 11.24 | 11.24 | 11.24 | 11.24 | 11.38 | 11.4 | 11.4 | 11.4 |
| 211780 | 3.99 | 3.99 | 3.99 | 3.99 | 8.14 | 8.14 | 8.14 | 8.14 | 10.33 | 10.33 | 10.33 | 10.33 | 10.72 | 10.72 | 10.72 | 10.72 | 10.75 | 10.76 | 10.76 | 10.76 |
| 211790 | 3.61 | 3.61 | 3.61 | 3.61 | 8.36 | 8.36 | 8.36 | 8.36 | 9.93 | 9.93 | 9.93 | 9.93 | 10.49 | 10.49 | 10.49 | 10.49 | 12.06 | 12.06 | 12.06 | 12.06 |
| 211800 | 3.34 | 3.34 | 3.34 | 3.34 | 9.2 | 9.2 | 9.2 | 9.2 | 11.48 | 11.48 | 11.48 | 11.48 | 12.42 | 12.42 | 12.42 | 12.42 | 14.28 | 14.28 | 14.28 | 14.28 |
| 211810 | 6.28 | 6.28 | 6.28 | 6.28 | 12.87 | 12.87 | 12.87 | 12.87 | 14.53 | 14.53 | 14.53 | 14.53 | 14.94 | 14.94 | 14.94 | 14.94 | 20.5 | 20.5 | 20.5 | 20.5 |
| 211820 | 23.24 | 23.24 | 23.24 | 23.24 | 53.21 | 53.22 | 53.22 | 53.22 | 73.62 | 73.62 | 73.62 | 73.62 | 83.62 | 83.62 | 83.62 | 83.62 | 135.05 | 135.05 | 135.05 | 135.05 |
| 211840 | 4.29 | 4.29 | 4.29 | 4.29 | 8.05 | 8.05 | 8.05 | 8.05 | 9.09 | 9.09 | 9.09 | 9.09 | 9.37 | 9.37 | 9.37 | 9.37 | 9.71 | 9.71 | 9.71 | 9.71 |
| 211850 | 5.86 | 5.86 | 5.86 | 5.86 | 10.77 | 10.77 | 10.77 | 10.77 | 12.14 | 12.14 | 12.14 | 12.14 | 12.53 | 12.53 | 12.53 | 12.53 | 12.57 | 12.57 | 12.57 | 12.57 |
| 211860 | 10.28 | 10.28 | 10.28 | 10.28 | 22.6 | 22.6 | 22.6 | 22.6 | 29.68 | 29.68 | 29.68 | 29.68 | 33.22 | 33.22 | 33.22 | 33.22 | 51.76 | 51.76 | 51.76 | 51.76 |
| 211870 | 8.74 | 8.74 | 8.74 | 8.74 | 18.67 | 18.67 | 18.67 | 18.67 | 24.34 | 24.34 | 24.34 | 24.34 | 27.16 | 27.16 | 27.16 | 27.16 | 41.95 | 41.95 | 41.95 | 41.95 |
| 211880 | 10 | 10 | 10 | 10 | 21.09 | 21.09 | 21.09 | 21.09 | 27.4 | 27.4 | 27.4 | 27.4 | 30.54 | 30.54 | 30.54 | 30.54 | 47 | 47 | 47 | 47 |
| 211890 | 13.37 | 13.37 | 13.37 | 13.37 | 29.32 | 29.32 | 29.32 | 29.32 | 38.49 | 38.49 | 38.49 | 38.49 | 43.07 | 43.07 | 43.07 | 43.07 | 67.43 | 67.43 | 67.43 | 67.43 |
| 211900 | 31.36 | 31.36 | 31.36 | 31.36 | 60.83 | 60.83 | 60.83 | 60.83 | 77.45 | 77.45 | 77.45 | 77.45 | 85.71 | 85.71 | 85.71 | 85.71 | 129.21 | 129.21 | 129.21 | 129.21 |
| 211910 | 24.65 | 24.65 | 24.65 | 24.65 | 50.54 | 50.54 | 50.54 | 50.54 | 64.32 | 64.32 | 64.32 | 64.32 | 70.55 | 70.55 | 70.55 | 70.55 | 100.77 | 100.77 | 100.77 | 100.77 |
| 211920 | 2.91 | 2.91 | 2.91 | 2.91 | 6.42 | 6.42 | 6.42 | 6.42 | 9.11 | 9.11 | 9.11 | 9.11 | 10.35 | 10.35 | 10.35 | 10.35 | 13.02 | 13.02 | 13.02 | 13.02 |
| 211930 | 9.24 | 9.24 | 9.24 | 9.24 | 19.01 | 19.01 | 19.01 | 19.01 | 24.54 | 24.54 | 24.54 | 24.54 | 27.28 | 27.28 | 27.28 | 27.28 | 41.72 | 41.72 | 41.72 | 41.72 |
| 211940 | 39.95 | 39.95 | 39.95 | 39.95 | 90.06 | 90.06 | 90.06 | 90.06 | 119.09 | 119.09 | 119.09 | 119.09 | 133.58 | 133.58 | 133.58 | 133.58 | 209.9 | 209.9 | 209.9 | 209.9 |
| 211950 | 7.67 | 7.67 | 7.67 | 7.67 | 14.58 | 14.58 | 14.58 | 14.58 | 18.48 | 18.48 | 18.48 | 18.48 | 20.42 | 20.42 | 20.42 | 20.42 | 30.63 | 30.63 | 30.63 | 30.63 |
| 212000 | 40.39 | 40.1 | 40.05 | 40.17 | 51.62 | 51.62 | 51.6 | 51.61 | 52.49 | 52.52 | 52.47 | 52.51 | 50.91 | 50.97 | 50.88 | 50.95 | 34.3 | 34.56 | 34.32 | 34.55 |
| 212010 | 27.13 | 27.13 | 27.13 | 27.13 | 56.93 | 56.93 | 56.93 | 56.93 | 74 | 74 | 74 | 74 | 82.5 | 82.5 | 82.5 | 82.5 | 136.45 | 136.01 | 136.2 | 136 |
| 212020 | 16.88 | 16.89 | 16.89 | 16.89 | 34.69 | 34.69 | 34.68 | 34.69 | 39.26 | 39.29 | 39.26 | 39.29 | 39.97 | 40.02 | 39.96 | 40.01 | 51.85 | 51.92 | 51.95 | 51.92 |
| 212030 | 22.88 | 22.88 | 22.88 | 22.88 | 43.72 | 43.72 | 43.71 | 43.72 | 49.2 | 49.23 | 49.19 | 49.22 | 50.28 | 50.33 | 50.27 | 50.32 | 60.8 | 60.18 | 60.21 | 60.18 |
| 212040 | 52.8 | 52.8 | 52.8 | 52.8 | 115.3 | 115.3 | 115.3 | 115.3 | 151.12 | 151.12 | 151.12 | 151.12 | 168.97 | 168.97 | 168.97 | 168.97 | 262.7 | 262.7 | 262.7 | 262.7 |
| 212050 | 4.38 | 4.38 | 4.38 | 4.38 | 11.18 | 11.18 | 11.17 | 11.18 | 12.51 | 12.52 | 12.51 | 12.52 | 12.78 | 12.79 | 12.78 | 12.79 | 15.06 | 15.06 | 15.06 | 15.06 |
| 212060 | 15.85 | 15.85 | 15.85 | 15.85 | 31.56 | 31.56 | 31.56 | 31.56 | 40.43 | 40.43 | 40.43 | 40.43 | 44.84 | 44.84 | 44.84 | 44.84 | 74.66 | 74.61 | 74.65 | 74.61 |
| 212100 | 18.83 | 18.83 | 18.83 | 18.83 | 24.79 | 24.79 | 24.79 | 24.79 | 26.01 | 26.01 | 26.01 | 26.01 | 26.15 | 26.15 | 26.14 | 26.15 | 25.83 | 25.85 | 25.83 | 25.85 |
| 212110 | 68.14 | 68.16 | 68.16 | 68.16 | 175.22 | 175.23 | 175.23 | 175.23 | 237.03 | 237.03 | 237.03 | 237.03 | 265.15 | 265.15 | 265.15 | 265.15 | 404.44 | 404.44 | 404.44 | 404.44 |
| 212120 | 19.27 | 19.26 | 19.26 | 19.26 | 65.9 | 65.9 | 65.9 | 65.9 | 91.54 | 91.54 | 91.54 | 91.54 | 103.77 | 103.77 | 103.77 | 103.77 | | | | |

Summary of Flow Results at all Nodes

| Node | 2.33YR24HR | | | | 25YR24HR | | | | 50YR24HR | | | | 100YR24HR | | | | 500YR24HR | | | |
|--------|-----------------------|---------------------------------|-----------------------|-----------------------------|-----------------------|---------------------------------|-----------------------|-----------------------------|-----------------------|---------------------------------|-----------------------|-----------------------------|-----------------------|---------------------------------|-----------------------|-----------------------------|-----------------------|---------------------------------|-----------------------|-----------------------------|
| | Effective Model (cfs) | Corrected Effective Model (cfs) | Proposed Bridge (cfs) | Proposed Box Culverts (cfs) | Effective Model (cfs) | Corrected Effective Model (cfs) | Proposed Bridge (cfs) | Proposed Box Culverts (cfs) | Effective Model (cfs) | Corrected Effective Model (cfs) | Proposed Bridge (cfs) | Proposed Box Culverts (cfs) | Effective Model (cfs) | Corrected Effective Model (cfs) | Proposed Bridge (cfs) | Proposed Box Culverts (cfs) | Effective Model (cfs) | Corrected Effective Model (cfs) | Proposed Bridge (cfs) | Proposed Box Culverts (cfs) |
| 212590 | 8.36 | 8.36 | 8.36 | 8.36 | 16.1 | 16.1 | 16.1 | 16.1 | 20.47 | 20.47 | 20.47 | 20.47 | 22.64 | 22.64 | 22.64 | 22.64 | 34.09 | 34.09 | 34.09 | 34.09 |
| 212600 | 30.83 | 30.83 | 30.83 | 30.83 | 58.51 | 58.51 | 58.51 | 58.51 | 74.11 | 74.11 | 74.11 | 74.11 | 81.88 | 81.88 | 81.88 | 81.88 | 122.81 | 122.81 | 122.81 | 122.81 |
| 212610 | 67.38 | 67.47 | 67.47 | 67.47 | 110.15 | 110.14 | 110.14 | 110.14 | 122.95 | 122.95 | 122.95 | 122.95 | 128.98 | 128.98 | 128.98 | 128.98 | 156.29 | 156.29 | 156.29 | 156.29 |
| 212620 | 36.7 | 36.74 | 36.74 | 36.74 | 61.91 | 61.87 | 61.87 | 61.87 | 67.71 | 67.71 | 67.71 | 67.71 | 70 | 70 | 70 | 70 | 79.71 | 79.71 | 79.71 | 79.71 |
| 212630 | 17.92 | 17.92 | 17.92 | 17.92 | 33.98 | 33.98 | 33.98 | 33.98 | 43.04 | 43.04 | 43.04 | 43.04 | 47.55 | 47.55 | 47.55 | 47.55 | 74 | 74 | 74 | 74 |
| 212640 | 12.51 | 12.51 | 12.51 | 12.51 | 24.2 | 24.2 | 24.2 | 24.2 | 30.78 | 30.78 | 30.78 | 30.78 | 34.06 | 34.06 | 34.06 | 34.06 | 51.31 | 51.31 | 51.31 | 51.31 |
| 212650 | 8.1 | 8.1 | 8.1 | 8.1 | 15.78 | 15.78 | 15.78 | 15.78 | 20.12 | 20.12 | 20.12 | 20.12 | 22.28 | 22.28 | 22.28 | 22.28 | 33.66 | 33.66 | 33.66 | 33.66 |
| 212660 | 16.69 | 16.69 | 16.69 | 16.69 | 36.9 | 36.9 | 36.9 | 36.9 | 49.59 | 49.59 | 49.59 | 49.59 | 56.02 | 56.02 | 56.02 | 56.02 | 86.75 | 86.75 | 86.75 | 86.75 |
| 212670 | 8.42 | 8.4 | 8.4 | 8.4 | 5.86 | 5.84 | 5.84 | 5.84 | 4.65 | 4.65 | 4.65 | 4.65 | 4.33 | 4.33 | 4.33 | 4.33 | 4.39 | 4.39 | 4.39 | 4.39 |
| 212680 | 6.34 | 6.34 | 6.34 | 6.34 | 12.36 | 12.36 | 12.36 | 12.36 | 16.7 | 16.7 | 16.7 | 16.7 | 18.67 | 18.67 | 18.67 | 18.67 | 27.24 | 27.24 | 27.24 | 27.24 |
| 212690 | 10.98 | 10.98 | 10.98 | 10.98 | 21.4 | 21.4 | 21.4 | 21.4 | 27.27 | 27.27 | 27.27 | 27.27 | 30.2 | 30.2 | 30.2 | 30.2 | 45.56 | 45.56 | 45.56 | 45.56 |
| 212700 | 3.83 | 3.83 | 3.83 | 3.83 | 6.62 | 6.62 | 6.62 | 6.62 | 8.58 | 8.58 | 8.58 | 8.58 | 9.48 | 9.48 | 9.48 | 9.48 | 12.35 | 12.35 | 12.35 | 12.35 |
| 212710 | 5.47 | 5.47 | 5.47 | 5.47 | 9.98 | 9.98 | 9.98 | 9.98 | 12.53 | 12.53 | 12.53 | 12.53 | 13.8 | 13.8 | 13.8 | 13.8 | 20.53 | 20.53 | 20.53 | 20.53 |
| 212720 | 1.91 | 1.91 | 1.91 | 1.91 | 4.02 | 4.02 | 4.02 | 4.02 | 5.28 | 5.28 | 5.28 | 5.28 | 5.9 | 5.9 | 5.9 | 5.9 | 9 | 9 | 9 | 9 |
| 212730 | 5.18 | 5.18 | 5.18 | 5.18 | 9.43 | 9.43 | 9.43 | 9.43 | 11.85 | 11.85 | 11.85 | 11.85 | 13.05 | 13.05 | 13.05 | 13.05 | 19.42 | 19.42 | 19.42 | 19.42 |
| 212740 | 22.89 | 23.08 | 23.08 | 23.08 | 29.86 | 29.87 | 29.87 | 29.87 | 33.75 | 33.75 | 33.75 | 33.75 | 36.1 | 36.1 | 36.1 | 36.1 | 43.57 | 43.57 | 43.57 | 43.57 |
| 212750 | 23.03 | 23.21 | 23.21 | 23.21 | 29.94 | 29.94 | 29.94 | 29.94 | 33.83 | 33.83 | 33.83 | 33.83 | 35.82 | 35.82 | 35.82 | 35.82 | 44.76 | 44.76 | 44.76 | 44.76 |
| 212760 | 16.07 | 16.2 | 16.2 | 16.2 | 28.8 | 28.82 | 28.82 | 28.82 | 35.76 | 35.76 | 35.76 | 35.76 | 39.17 | 39.17 | 39.17 | 39.17 | 56.83 | 56.83 | 56.83 | 56.83 |
| 212770 | 3.29 | 3.29 | 3.29 | 3.29 | 6 | 6 | 6 | 6 | 7.54 | 7.54 | 7.54 | 7.54 | 8.31 | 8.31 | 8.31 | 8.31 | 12.37 | 12.37 | 12.37 | 12.37 |
| 212780 | 7.58 | 7.58 | 7.58 | 7.58 | 14.54 | 14.54 | 14.54 | 14.54 | 18.47 | 18.47 | 18.47 | 18.47 | 20.42 | 20.42 | 20.42 | 20.42 | 30.7 | 30.7 | 30.7 | 30.7 |
| 212790 | 9.23 | 9.23 | 9.23 | 9.23 | 16.77 | 16.77 | 16.77 | 16.77 | 21.05 | 21.05 | 21.05 | 21.05 | 23.25 | 23.25 | 23.25 | 23.25 | 43.18 | 43.18 | 43.18 | 43.18 |
| 212900 | 175.12 | 175.23 | 175.23 | 175.23 | 316.16 | 316.19 | 316.19 | 316.19 | 383.82 | 383.82 | 383.82 | 383.82 | 412.87 | 412.87 | 412.87 | 412.87 | 548.05 | 548.05 | 548.05 | 548.05 |
| 212910 | 129.64 | 129.7 | 129.7 | 129.7 | 272.98 | 273.01 | 273.01 | 273.01 | 340.26 | 340.26 | 340.26 | 340.26 | 371.08 | 371.08 | 371.08 | 371.08 | 525.23 | 525.23 | 525.23 | 525.23 |
| 212920 | 59.28 | 59.32 | 59.32 | 59.32 | 123.3 | 123.32 | 123.32 | 123.32 | 146.64 | 146.64 | 146.64 | 146.64 | 155.08 | 155.08 | 155.08 | 155.08 | 192.73 | 192.73 | 192.73 | 192.73 |
| 212930 | 70.04 | 70.06 | 70.06 | 70.06 | 177.83 | 177.85 | 177.85 | 177.85 | 232.21 | 232.21 | 232.21 | 232.21 | 257.17 | 257.17 | 257.17 | 257.17 | 376.96 | 376.96 | 376.96 | 376.96 |
| 212940 | 41.27 | 41.29 | 41.29 | 41.29 | 97.96 | 97.97 | 97.97 | 97.97 | 119.37 | 119.37 | 119.37 | 119.37 | 127.18 | 127.18 | 127.18 | 127.18 | 149.6 | 149.6 | 149.6 | 149.6 |
| 212950 | 48.31 | 48.31 | 48.31 | 48.31 | 90.19 | 90.19 | 90.19 | 90.19 | 113.75 | 113.75 | 113.75 | 113.75 | 125.09 | 125.09 | 125.09 | 125.09 | 179.99 | 179.99 | 179.99 | 179.99 |
| 212960 | 36.32 | 36.32 | 36.32 | 36.32 | 72.3 | 72.3 | 72.3 | 72.3 | 96.84 | 96.84 | 96.84 | 96.84 | 108.44 | 108.44 | 108.44 | 108.44 | 166.76 | 166.76 | 166.76 | 166.76 |
| 212970 | 20.07 | 20.07 | 20.07 | 20.07 | 43.68 | 43.67 | 43.67 | 43.67 | 57.11 | 57.11 | 57.11 | 57.11 | 63.45 | 63.45 | 63.45 | 63.45 | 92.02 | 92.02 | 92.02 | 92.02 |
| 212980 | 2.92 | 2.92 | 2.92 | 2.92 | 7.14 | 7.14 | 7.14 | 7.14 | 7.57 | 7.57 | 7.57 | 7.57 | 7.52 | 7.52 | 7.52 | 7.52 | 10.65 | 10.65 | 10.65 | 10.65 |
| 212990 | 10.34 | 10.34 | 10.34 | 10.34 | 20.52 | 20.52 | 20.52 | 20.52 | 26.26 | 26.26 | 26.26 | 26.26 | 29.12 | 29.12 | 29.12 | 29.12 | 44.13 | 44.13 | 44.13 | 44.13 |
| 213100 | 0.55 | 0.55 | 0.55 | 0.55 | 4.48 | 4.49 | 4.49 | 4.49 | 6.14 | 6.14 | 6.14 | 6.14 | 6.71 | 6.71 | 6.71 | 6.71 | 14.43 | 14.43 | 14.43 | 14.43 |
| 213110 | 5.99 | 5.99 | 5.99 | 5.99 | 12.31 | 12.31 | 12.31 | 12.31 | 11.31 | 11.31 | 11.31 | 11.31 | 12.43 | 12.43 | 12.43 | 12.43 | 18.57 | 18.57 | 18.57 | 18.57 |
| 213120 | 5.84 | 5.84 | 5.84 | 5.84 | 11.25 | 11.25 | 11.25 | 11.25 | 12.86 | 12.86 | 12.86 | 12.86 | 14.18 | 14.18 | 14.18 | 14.18 | 21.13 | 21.13 | 21.13 | 21.13 |
| 213130 | 6.93 | 6.93 | 6.93 | 6.93 | 12.9 | 12.9 | 12.9 | 12.9 | 16.27 | 16.27 | 16.27 | 16.27 | 17.95 | 17.95 | 17.95 | 17.95 | 26.81 | 26.81 | 26.81 | 26.81 |
| 213140 | 5.49 | 5.48 | 5.48 | 5.48 | 10.52 | 10.52 | 10.52 | 10.52 | 18.28 | 18.28 | 18.28 | 18.28 | 22.76 | 22.76 | 22.76 | 22.76 | 41.42 | 41.42 | 41.42 | 41.42 |
| 213150 | 18.46 | 18.46 | 18.46 | 18.46 | 34.42 | 34.42 | 34.42 | 34.42 | 43.43 | 43.43 | 43.43 | 43.43 | 47.92 | 47.92 | 47.92 | 47.92 | 71.61 | 71.61 | 71.61 | 71.61 |
| 213160 | 44.66 | 44.68 | 44.68 | 44.68 | 85.55 | 85.58 | 85.58 | 85.58 | 102.15 | 102.15 | 102.15 | 102.15 | 108.11 | 108.11 | 108.11 | 108.11 | 134.75 | 134.75 | 134.75 | 134.75 |
| 213170 | 46.69 | 46.7 | 46.7 | 46.7 | 91.65 | 91.65 | 91.65 | 91.65 | 110.74 | 110.74 | 110.74 | 110.74 | 117.86 | 117.86 | 117.86 | 117.86 | 164.3 | 164.3 | 164.3 | 164.3 |
| 213180 | 25.12 | 25.12 | 25.12 | 25.12 | 52.08 | 52.08 | 52.08 | 52.08 | 65.96 | 65.96 | 65.96 | 65.96 | 70.84 | 70.84 | 70.84 | 70.84 | 93.84 | 93.84 | 93.84 | 93.84 |
| 213190 | 25.59 | 25.59 | 25.59 | 25.59 | 53.19 | 53.19 | 53.19 | 53.19 | 69.03 | 69.03 | 69.03 | 69.03 | 76.93 | 76.93 | 76.93 | 76.93 | 118.43 | 118.43 | 118.43 | 118.43 |
| 213200 | 27.45 | 27.45 | 27.45 | 27.45 | 56.91 | 56.91 | 56.91 | 56.91 | 73.66 | 73.66 | 73.66 | 73.66 | 82 | 82 | 82 | 82 | 125.81 | 125.81 | 125.81 | 125.81 |
| 213210 | 41.69 | 41.69 | 41.69 | 41.69 | 75.74 | 75.74 | 75.74 | 75.74 | 95.06 | 95.06 | 95.06 | 95.06 | 104.7 | 104.7 | 104.7 | 104.7 | 155.7 | 155.7 | 155.7 | 155.7 |
| 213220 | 96.3 | 96.3 | 96.3 | 96.3 | 218.27 | 218.27 | 218.27 | 218.27 | 287.15 | 287.15 | 287.15 | 287.15 | 321.3 | 321.3 | 321.3 | 321.3 | 501.68 | 501.68 | 501.68 | 501.68 |
| 213230 | 9.6 | 9.6 | 9.6 | 9.6 | 20.27 | 20.27 | 20.27 | 20.27 | 26.42 | 26.42 | 26.42 | 26.42 | 29.49 | 29.49 | 29.49 | 29.49 | 45.62 | 45.62 | 45.62 | 45.62 |
| 213240 | 4.5 | 4.5 | 4.5 | 4.5 | 19.33 | 19.33 | 19.33 | 19.33 | 21.63 | 21.63 | 21.63 | 21.63 | 22.37 | 22.37 | 22.37 | 22.37 | 21.81 | 21.81 | 21.81 | 21.81 |
| 213250 | 26.58 | 26.58 | 26.58 | 26.58 | 58.83 | 58.83 | 58.83 | 58.83 | 77.42 | 77.42 | 77.42 | 77.42 | 86.68 | 86.68 | 86.68 | 86.68 | 135.43 | 135.43 | 135.43 | 135.43 |
| 213260 | 3.77 | 3.77 | 3.77 | 3.77 | 11.6 | 11.6 | 11.6 | 11.6 | 11.82 | 11.82 | 11.82 | 11.82 | 11.78 | 11.78 | 11.78 | 11.78 | 9.91 | 9.91 | 9.91 | 9.91 |
| 213270 | 16.02 | 16.02 | 16.02 | 16.02 | 29.93 | 29.93 | 29.93 | 29.93 | 37.79 | 37.79 | 37.79 | 37.79 | 41.7 | 41.7 | 41.7 | 41.7 | 67.01 | 67.01 | 67.01 | 67.01 |
| 213300 | 3.51 | 3.52 | 3.52 | 3.52 | 5.77 | 5.78 | 5.78 | 5.78 | 7.45 | 7.45 | 7.45 | 7.45 | 8.18 | 8.18 | 8.18 | 8.18 | 11.01 | 11.01 | 11.01 | 11.01 |
| 213310 | 16.54 | 16.54 | 16.54 | 16.54 | 26.77 | 26.77 | 26.77 | 26.77 | 31.8 | 31.8 | 31.8 | 31.8 | 34.2 | 34.2 | 34.2 | 34.2 | 46.44 | 46.44 | 46.44 | 46.44 |
| 213320 | 8.59 | 8.59 | 8.59 | 8.59 | 16.14 | 16.14 | 16.14 | 16.14 | 20.4 | 20.4 | 20.4 | 20.4 | 22.52 | 22.52 | 22.52 | 22.52 | 33.7 | 33.7 | 33.7 | 33.7 |
| 213330 | 9.22 | 9.22 | 9.22 | 9.22 | 16.91 | 16.91 | 16.91 | 16.91 | 21.26 | 21.26 | 21.26 | 21.26 | 23.43 | 23.43 | 23.43 | 23.43 | 34.89 | 34.89 | 34.89 | 34.89 |
| 213340 | 16.5 | 16.5 | 16.5 | 16.5 | 30.39 | 30.39 | 30.39 | 30.39 | 38.25 | 38.25 | 38.25 | 38.25 | 42.17 | 42.17 | 42.17 | 42.17 | 62.86 | 62.86 | 62.86 | 62.86 |
| 213350 | 12.54 | 12.54 | 12.54 | 12.54 | 39.61 | 39.61 | 39.61 | 39.61 | 63.82 | 63.82 | 63.82 | 63.82 | 75.34 | 75.34 | 75.34 | 75.34 | 132.54 | 132.54 | 132.54 | 132.54 |
| 213360 | 46.46 | 46.46 | 46.46 | 46.46 | 88.65 | 88.65 | 88.65 | 88.65 | 112.45 | 112.45 | 112.45 | 112.45 | 124.29 | 124.29 | 124.29 | 124.29 | 186.68 | 186.68 | 186.68 | 186.68 |
| 213370 | 13.52 | | | | | | | | | | | | | | | | | | | |

Summary of Flow Results at all Nodes

| Node | 2.33YR24HR | | | | 25YR24HR | | | | 50YR24HR | | | | 100YR24HR | | | | 500YR24HR | | | |
|--------|-----------------------|---------------------------------|-----------------------|-----------------------------|-----------------------|---------------------------------|-----------------------|-----------------------------|-----------------------|---------------------------------|-----------------------|-----------------------------|-----------------------|---------------------------------|-----------------------|-----------------------------|-----------------------|---------------------------------|-----------------------|-----------------------------|
| | Effective Model (cfs) | Corrected Effective Model (cfs) | Proposed Bridge (cfs) | Proposed Box Culverts (cfs) | Effective Model (cfs) | Corrected Effective Model (cfs) | Proposed Bridge (cfs) | Proposed Box Culverts (cfs) | Effective Model (cfs) | Corrected Effective Model (cfs) | Proposed Bridge (cfs) | Proposed Box Culverts (cfs) | Effective Model (cfs) | Corrected Effective Model (cfs) | Proposed Bridge (cfs) | Proposed Box Culverts (cfs) | Effective Model (cfs) | Corrected Effective Model (cfs) | Proposed Bridge (cfs) | Proposed Box Culverts (cfs) |
| 213890 | 14.84 | 14.84 | 14.84 | 14.84 | 29.32 | 29.32 | 29.32 | 29.32 | 37.5 | 37.5 | 37.5 | 37.5 | 41.57 | 41.57 | 41.57 | 41.57 | 62.95 | 62.95 | 62.95 | 62.95 |
| 213900 | 22.54 | 22.54 | 22.54 | 22.54 | 43.93 | 43.93 | 43.93 | 43.93 | 56.01 | 56.01 | 56.01 | 56.01 | 62.02 | 62.02 | 62.02 | 62.02 | 93.65 | 93.65 | 93.65 | 93.65 |
| 214000 | 57.51 | 57.51 | 57.51 | 57.51 | 87.66 | 87.66 | 87.66 | 87.66 | 100.03 | 100.03 | 100.03 | 100.03 | 105.14 | 105.14 | 105.14 | 105.14 | 128.68 | 128.68 | 128.68 | 128.68 |
| 214010 | 57.16 | 57.17 | 57.17 | 57.17 | 87.82 | 87.82 | 87.82 | 87.82 | 100.59 | 100.59 | 100.59 | 100.59 | 106.46 | 106.46 | 106.46 | 106.46 | 134.78 | 134.78 | 134.78 | 134.78 |
| 214020 | 56.29 | 56.3 | 56.3 | 56.3 | 86.95 | 86.96 | 86.96 | 86.96 | 100.41 | 100.41 | 100.41 | 100.41 | 106.92 | 106.92 | 106.92 | 106.92 | 146.17 | 146.17 | 146.17 | 146.17 |
| 214030 | 41.73 | 41.73 | 41.73 | 41.73 | 54.46 | 54.46 | 54.46 | 54.46 | 60.15 | 60.15 | 60.15 | 60.15 | 63.54 | 63.54 | 63.54 | 63.54 | 78.6 | 78.6 | 78.6 | 78.6 |
| 214040 | 51.18 | 51.18 | 51.18 | 51.18 | 54.54 | 54.53 | 54.53 | 54.53 | 54.89 | 54.89 | 54.89 | 54.89 | 56.07 | 56.07 | 56.07 | 56.07 | 64.08 | 64.08 | 64.08 | 64.08 |
| 214050 | 33.31 | 33.31 | 33.31 | 33.31 | 33.31 | 33.31 | 33.31 | 33.31 | 33.36 | 33.36 | 33.36 | 33.36 | 34.16 | 34.16 | 34.16 | 34.16 | 38.39 | 38.39 | 38.39 | 38.39 |
| 214060 | 47.65 | 47.65 | 47.65 | 47.65 | 90.47 | 90.47 | 90.47 | 90.47 | 115.94 | 115.94 | 115.94 | 115.94 | 142.31 | 142.31 | 142.31 | 142.31 | 296.56 | 296.56 | 296.56 | 296.56 |
| 214070 | 1.45 | 1.45 | 1.45 | 1.45 | 1.95 | 1.95 | 1.95 | 1.95 | 2.16 | 2.16 | 2.16 | 2.16 | 2.24 | 2.24 | 2.24 | 2.24 | 7.13 | 7.13 | 7.13 | 7.13 |
| 214080 | 1.45 | 1.45 | 1.45 | 1.45 | 1.95 | 1.95 | 1.95 | 1.95 | 2.14 | 2.14 | 2.14 | 2.14 | 2.22 | 2.22 | 2.22 | 2.22 | 8.09 | 8.09 | 8.09 | 8.09 |
| 214090 | 35.34 | 35.34 | 35.34 | 35.34 | 66.14 | 66.14 | 66.14 | 66.14 | 83.54 | 83.54 | 83.54 | 83.54 | 92.2 | 92.2 | 92.2 | 92.2 | 137.89 | 137.89 | 137.89 | 137.89 |
| 214100 | 6.36 | 6.36 | 6.36 | 6.36 | 11.95 | 11.95 | 11.95 | 11.95 | 15.11 | 15.11 | 15.11 | 15.11 | 16.68 | 16.68 | 16.68 | 16.68 | 24.97 | 24.97 | 24.97 | 24.97 |
| 214110 | 26.41 | 26.41 | 26.41 | 26.41 | 45.09 | 45.08 | 45.08 | 45.08 | 54.98 | 54.98 | 54.98 | 54.98 | 59.73 | 59.73 | 59.73 | 59.73 | 82.28 | 82.28 | 82.28 | 82.28 |
| 214120 | 17.25 | 17.25 | 17.25 | 17.25 | 42.81 | 42.81 | 42.81 | 42.81 | 56.82 | 56.82 | 56.82 | 56.82 | 63.38 | 63.38 | 63.38 | 63.38 | 82.44 | 82.44 | 82.44 | 82.44 |
| 214130 | 12.07 | 12.07 | 12.07 | 12.07 | 22.01 | 22.01 | 22.01 | 22.01 | 27.64 | 27.64 | 27.64 | 27.64 | 30.45 | 30.45 | 30.45 | 30.45 | 45.3 | 45.3 | 45.3 | 45.3 |
| 214140 | 3.74 | 3.74 | 3.74 | 3.74 | 8.25 | 8.25 | 8.25 | 8.25 | 9.68 | 9.68 | 9.68 | 9.68 | 10.18 | 10.18 | 10.18 | 10.18 | 11.5 | 11.5 | 11.5 | 11.5 |
| 214150 | 11.62 | 11.62 | 11.62 | 11.62 | 21.17 | 21.17 | 21.17 | 21.17 | 26.59 | 26.59 | 26.59 | 26.59 | 29.3 | 29.3 | 29.3 | 29.3 | 43.59 | 43.59 | 43.59 | 43.59 |
| 214160 | 3.81 | 3.81 | 3.81 | 3.81 | 5.94 | 5.94 | 5.94 | 5.94 | 6.81 | 6.81 | 6.81 | 6.81 | 7.24 | 7.24 | 7.24 | 7.24 | 8.91 | 8.91 | 8.91 | 8.91 |
| 214170 | 8.14 | 8.14 | 8.14 | 8.14 | 14.84 | 14.84 | 14.84 | 14.84 | 18.63 | 18.63 | 18.63 | 18.63 | 20.52 | 20.52 | 20.52 | 20.52 | 30.54 | 30.54 | 30.54 | 30.54 |
| 214180 | 4.92 | 4.92 | 4.92 | 4.92 | 5.92 | 5.93 | 5.93 | 5.93 | 8.61 | 8.61 | 8.61 | 8.61 | 10.14 | 10.14 | 10.14 | 10.14 | 20.57 | 20.57 | 20.57 | 20.57 |
| 214190 | 40.06 | 40.08 | 40.08 | 40.08 | 72.62 | 72.67 | 72.67 | 72.67 | 91.18 | 91.18 | 91.18 | 91.18 | 100.42 | 100.42 | 100.42 | 100.42 | 133.89 | 133.89 | 133.89 | 133.89 |
| 214200 | 30.68 | 30.68 | 30.68 | 30.68 | 55.89 | 55.89 | 55.89 | 55.89 | 70.19 | 70.19 | 70.19 | 70.19 | 77.33 | 77.33 | 77.33 | 77.33 | 115.05 | 115.05 | 115.05 | 115.05 |
| 214210 | 10.45 | 10.45 | 10.45 | 10.45 | 10.01 | 10.01 | 10.01 | 10.01 | 9.5 | 9.5 | 9.5 | 9.5 | 9.22 | 9.22 | 9.22 | 9.22 | 9.61 | 9.61 | 9.61 | 9.61 |
| 214220 | 45.11 | 45.11 | 45.11 | 45.11 | 81.99 | 81.99 | 81.99 | 81.99 | 98.91 | 98.91 | 98.91 | 98.91 | 106.66 | 106.66 | 106.66 | 106.66 | 145.3 | 145.3 | 145.3 | 145.3 |
| 214230 | 27.12 | 27.12 | 27.12 | 27.12 | 38.7 | 38.7 | 38.7 | 38.7 | 43.68 | 43.68 | 43.68 | 43.68 | 46.02 | 46.02 | 46.02 | 46.02 | 59.13 | 59.13 | 59.13 | 59.13 |
| 214240 | 28.99 | 28.99 | 28.99 | 28.99 | 32.85 | 32.85 | 32.85 | 32.85 | 34.16 | 34.16 | 34.16 | 34.16 | 34.63 | 34.63 | 34.63 | 34.63 | 41.52 | 41.52 | 41.52 | 41.52 |
| 214250 | 28.62 | 28.62 | 28.62 | 28.62 | 54.84 | 54.84 | 54.84 | 54.84 | 71.8 | 71.8 | 71.8 | 71.8 | 79.53 | 79.53 | 79.53 | 79.53 | 129.55 | 129.55 | 129.55 | 129.55 |
| 214260 | 24.2 | 24.2 | 24.2 | 24.2 | 42.55 | 42.55 | 42.55 | 42.55 | 59.7 | 59.7 | 59.7 | 59.7 | 68.29 | 68.29 | 68.29 | 68.29 | 106.13 | 106.13 | 106.13 | 106.13 |
| 214270 | 68.03 | 68.03 | 68.03 | 68.03 | 113.14 | 113.14 | 113.14 | 113.14 | 140.92 | 140.92 | 140.92 | 140.92 | 154.92 | 154.92 | 154.92 | 154.92 | 222.48 | 222.48 | 222.48 | 222.48 |
| 214280 | 55.93 | 55.93 | 55.93 | 55.93 | 92.21 | 92.21 | 92.21 | 92.21 | 109.03 | 109.03 | 109.03 | 109.03 | 117.46 | 117.46 | 117.46 | 117.46 | 159 | 159 | 159 | 159 |
| 214290 | 26.45 | 26.45 | 26.45 | 26.45 | 48.21 | 48.21 | 48.21 | 48.21 | 60.55 | 60.55 | 60.55 | 60.55 | 66.7 | 66.7 | 66.7 | 66.7 | 99.25 | 99.25 | 99.25 | 99.25 |
| 214300 | 4.04 | 4.04 | 4.04 | 4.04 | 8.17 | 8.17 | 8.17 | 8.17 | 10.56 | 10.56 | 10.56 | 10.56 | 11.39 | 11.39 | 11.39 | 11.39 | 12.78 | 12.78 | 12.78 | 12.78 |
| 214310 | 11.28 | 11.28 | 11.28 | 11.28 | 20.41 | 20.41 | 20.41 | 20.41 | 25.6 | 25.6 | 25.6 | 25.6 | 28.19 | 28.19 | 28.19 | 28.19 | 41.89 | 41.89 | 41.89 | 41.89 |
| 214320 | 5.2 | 5.2 | 5.2 | 5.2 | 15.93 | 15.93 | 15.93 | 15.93 | 20.11 | 20.11 | 20.11 | 20.11 | 21.86 | 21.86 | 21.86 | 21.86 | 31.5 | 31.5 | 31.5 | 31.5 |
| 214330 | 4.68 | 4.68 | 4.68 | 4.68 | 15.42 | 15.42 | 15.42 | 15.42 | 19.69 | 19.69 | 19.69 | 19.69 | 21.33 | 21.33 | 21.33 | 21.33 | 25.78 | 25.78 | 25.78 | 25.78 |
| 214340 | 11.06 | 11.06 | 11.06 | 11.06 | 20.06 | 20.06 | 20.06 | 20.06 | 25.16 | 25.16 | 25.16 | 25.16 | 27.71 | 27.71 | 27.71 | 27.71 | 41.19 | 41.19 | 41.19 | 41.19 |
| 214350 | 1.72 | 1.72 | 1.72 | 1.72 | 4.28 | 4.28 | 4.28 | 4.28 | 5.82 | 5.82 | 5.82 | 5.82 | 6.55 | 6.55 | 6.55 | 6.55 | 10.17 | 10.17 | 10.17 | 10.17 |
| 214360 | 5.39 | 5.39 | 5.39 | 5.39 | 9.82 | 9.82 | 9.82 | 9.82 | 12.34 | 12.34 | 12.34 | 12.34 | 13.59 | 13.59 | 13.59 | 13.59 | 20.22 | 20.22 | 20.22 | 20.22 |
| 214370 | 18.49 | 18.49 | 18.49 | 18.49 | 20.29 | 20.29 | 20.29 | 20.29 | 19.42 | 19.42 | 19.42 | 19.42 | 18.92 | 18.92 | 18.92 | 18.92 | 20.01 | 20.01 | 20.01 | 20.01 |
| 214380 | 20.28 | 20.28 | 20.28 | 20.28 | 36.85 | 36.85 | 36.85 | 36.85 | 46.25 | 46.25 | 46.25 | 46.25 | 50.94 | 50.94 | 50.94 | 50.94 | 75.75 | 75.75 | 75.75 | 75.75 |
| 214390 | 7.39 | 7.39 | 7.39 | 7.39 | 8.11 | 8.11 | 8.11 | 8.11 | 7.59 | 7.59 | 7.59 | 7.59 | 7.4 | 7.4 | 7.4 | 7.4 | 6.96 | 6.96 | 6.96 | 6.96 |
| 214400 | 12.05 | 12.05 | 12.05 | 12.05 | 21.96 | 21.96 | 21.96 | 21.96 | 27.58 | 27.58 | 27.58 | 27.58 | 30.39 | 30.39 | 30.39 | 30.39 | 45.22 | 45.22 | 45.22 | 45.22 |
| 214410 | 27.96 | 27.96 | 27.96 | 27.96 | 28.12 | 28.12 | 28.12 | 28.12 | 25.37 | 25.37 | 25.37 | 25.37 | 23.74 | 23.74 | 23.74 | 23.74 | 22.74 | 22.74 | 22.74 | 22.74 |
| 214420 | 41.39 | 41.39 | 41.39 | 41.39 | 73.73 | 73.73 | 73.73 | 73.73 | 91.48 | 91.48 | 91.48 | 91.48 | 100.26 | 100.26 | 100.26 | 100.26 | 146.29 | 146.29 | 146.29 | 146.29 |
| 214430 | 19.81 | 19.81 | 19.81 | 19.81 | 35.9 | 35.9 | 35.9 | 35.9 | 45.04 | 45.04 | 45.04 | 45.04 | 49.6 | 49.6 | 49.6 | 49.6 | 73.72 | 73.72 | 73.72 | 73.72 |
| 214440 | 3.42 | 3.42 | 3.42 | 3.42 | 12.4 | 12.4 | 12.4 | 12.4 | 16.54 | 16.54 | 16.54 | 16.54 | 18.12 | 18.12 | 18.12 | 18.12 | 21.91 | 21.91 | 21.91 | 21.91 |
| 214450 | 10.46 | 10.46 | 10.46 | 10.46 | 19.6 | 19.6 | 19.6 | 19.6 | 24.76 | 24.76 | 24.76 | 24.76 | 27.34 | 27.34 | 27.34 | 27.34 | 40.9 | 40.9 | 40.9 | 40.9 |
| 214455 | 46.91 | 46.91 | 46.91 | 46.91 | 89.23 | 89.23 | 89.23 | 89.23 | 111.02 | 111.02 | 111.02 | 111.02 | 121.72 | 121.72 | 121.72 | 121.72 | 176.22 | 176.22 | 176.22 | 176.22 |
| 214460 | 32.67 | 32.67 | 32.67 | 32.67 | 61.42 | 61.42 | 61.42 | 61.42 | 77.65 | 77.65 | 77.65 | 77.65 | 85.74 | 85.74 | 85.74 | 85.74 | 128.38 | 128.38 | 128.38 | 128.38 |
| 214500 | 42.23 | 42.24 | 42.24 | 42.24 | 67.95 | 67.96 | 67.96 | 67.96 | 82.26 | 82.26 | 82.26 | 82.26 | 88.51 | 88.51 | 88.51 | 88.51 | 118.49 | 118.49 | 118.49 | 118.49 |
| 214510 | 42.45 | 42.46 | 42.46 | 42.46 | 68.61 | 68.62 | 68.62 | 68.62 | 83.08 | 83.08 | 83.08 | 83.08 | 89.53 | 89.53 | 89.53 | 89.53 | 120.36 | 120.36 | 120.36 | 120.36 |
| 214520 | 37.49 | 37.5 | 37.5 | 37.5 | 50.57 | 50.58 | 50.58 | 50.58 | 58.3 | 58.3 | 58.3 | 58.3 | 60.82 | 60.82 | 60.82 | 60.82 | 72.03 | 72.03 | 72.03 | 72.03 |
| 214530 | 37.49 | 37.49 | 37.49 | 37.49 | 50.47 | 50.47 | 50.47 | 50.47 | 58.18 | 58.18 | 58.18 | 58.18 | 60.68 | 60.68 | 60.68 | 60.68 | 71.61 | 71.61 | 71.61 | 71.61 |
| 214540 | 77.9 | 77.94 | 77.94 | 77.94 | 151.88 | 151.9 | 151.9 | 151.9 | 196.91 | 196.91 | 196.91 | 196.91 | 222.29 | 222.29 | 222.29 | 222.29 | 337.13 | 337.13 | 337.13 | 337.13 |
| 214550 | 42.19 | 42.2 | 42.2 | 42.2 | 91.41 | 91.42 | 91.42 | 91.42 | 128.53 | 128.53 | 128.53 | 128.53 | 139.3 | 139.3 | 139.3 | 139.3 | 177.36</ | | | |

Summary of Flow Results at all Nodes

| Node | 2.33YR24HR | | | | 25YR24HR | | | | 50YR24HR | | | | 100YR24HR | | | | 500YR24HR | | | |
|--------|-----------------------|---------------------------------|-----------------------|-----------------------------|-----------------------|---------------------------------|-----------------------|-----------------------------|-----------------------|---------------------------------|-----------------------|-----------------------------|-----------------------|---------------------------------|-----------------------|-----------------------------|-----------------------|---------------------------------|-----------------------|-----------------------------|
| | Effective Model (cfs) | Corrected Effective Model (cfs) | Proposed Bridge (cfs) | Proposed Box Culverts (cfs) | Effective Model (cfs) | Corrected Effective Model (cfs) | Proposed Bridge (cfs) | Proposed Box Culverts (cfs) | Effective Model (cfs) | Corrected Effective Model (cfs) | Proposed Bridge (cfs) | Proposed Box Culverts (cfs) | Effective Model (cfs) | Corrected Effective Model (cfs) | Proposed Bridge (cfs) | Proposed Box Culverts (cfs) | Effective Model (cfs) | Corrected Effective Model (cfs) | Proposed Bridge (cfs) | Proposed Box Culverts (cfs) |
| 214960 | 3.28 | 3.28 | 3.28 | 3.28 | 5.8 | 5.8 | 5.8 | 5.8 | 10.7 | 10.7 | 10.7 | 10.7 | 13.9 | 13.9 | 13.9 | 13.9 | 23.88 | 23.88 | 23.88 | 23.88 |
| 214970 | 19.78 | 19.78 | 19.78 | 19.78 | 36.1 | 36.1 | 36.1 | 36.1 | 45.35 | 45.35 | 45.35 | 45.35 | 49.97 | 49.97 | 49.97 | 49.97 | 74.37 | 74.37 | 74.37 | 74.37 |
| 214980 | 4.67 | 4.67 | 4.67 | 4.67 | 7.54 | 7.54 | 7.54 | 7.54 | 11.92 | 11.92 | 11.92 | 11.92 | 13.64 | 13.64 | 13.64 | 13.64 | 25.12 | 25.12 | 25.12 | 25.12 |
| 214990 | 18.61 | 18.61 | 18.61 | 18.61 | 33.73 | 33.73 | 33.73 | 33.73 | 42.12 | 42.12 | 42.12 | 42.12 | 49.02 | 49.02 | 49.02 | 49.02 | 81.29 | 81.29 | 81.29 | 81.29 |
| 215000 | 5.9 | 5.9 | 5.9 | 5.9 | 10.91 | 10.91 | 10.91 | 10.91 | 12.65 | 12.65 | 12.65 | 12.65 | 12.88 | 12.88 | 12.88 | 12.88 | 11.68 | 11.68 | 11.68 | 11.68 |
| 215010 | 8.27 | 8.27 | 8.27 | 8.27 | 16.55 | 16.55 | 16.55 | 16.55 | 21.21 | 21.21 | 21.21 | 21.21 | 23.53 | 23.53 | 23.53 | 23.53 | 35.73 | 35.73 | 35.73 | 35.73 |
| 215020 | 19.89 | 19.89 | 19.89 | 19.89 | 41.71 | 41.71 | 41.71 | 41.71 | 52.23 | 52.23 | 52.23 | 52.23 | 57.44 | 57.44 | 57.44 | 57.44 | 74.04 | 74.04 | 74.04 | 74.04 |
| 215030 | 10.67 | 10.67 | 10.67 | 10.67 | 20.81 | 20.81 | 20.81 | 20.81 | 24.88 | 24.88 | 24.88 | 24.88 | 25.99 | 25.99 | 25.99 | 25.99 | 28.35 | 28.35 | 28.35 | 28.35 |
| 215040 | 5.18 | 5.18 | 5.18 | 5.18 | 10.22 | 10.22 | 10.22 | 10.22 | 12.89 | 12.89 | 12.89 | 12.89 | 14.07 | 14.07 | 14.07 | 14.07 | 18.17 | 18.17 | 18.17 | 18.17 |
| 215050 | 5.44 | 5.44 | 5.44 | 5.44 | 10.34 | 10.34 | 10.34 | 10.34 | 13.1 | 13.1 | 13.1 | 13.1 | 14.47 | 14.47 | 14.47 | 14.47 | 21.71 | 21.71 | 21.71 | 21.71 |
| 215060 | 10.58 | 10.58 | 10.58 | 10.58 | 19.38 | 19.38 | 19.38 | 19.38 | 24.36 | 24.36 | 24.36 | 24.36 | 26.85 | 26.85 | 26.85 | 26.85 | 39.98 | 39.98 | 39.98 | 39.98 |
| 215100 | 34.25 | 34.3 | 34.3 | 34.3 | 78.67 | 78.74 | 78.74 | 78.74 | 103.65 | 103.65 | 103.65 | 103.65 | 115.95 | 115.95 | 115.95 | 115.95 | 181.74 | 181.74 | 181.74 | 181.74 |
| 215110 | 34.54 | 34.59 | 34.59 | 34.59 | 76.66 | 76.72 | 76.72 | 76.72 | 100.28 | 100.28 | 100.28 | 100.28 | 111.89 | 111.89 | 111.89 | 111.89 | 173.44 | 173.44 | 173.44 | 173.44 |
| 215120 | 40.46 | 40.49 | 40.49 | 40.49 | 82.46 | 82.52 | 82.52 | 82.52 | 106.88 | 106.88 | 106.88 | 106.88 | 119.43 | 119.43 | 119.43 | 119.43 | 183.67 | 183.67 | 183.67 | 183.67 |
| 215130 | 46.79 | 46.8 | 46.8 | 46.8 | 90.52 | 90.47 | 90.47 | 90.47 | 116.29 | 116.29 | 116.29 | 116.29 | 127.89 | 127.89 | 127.89 | 127.89 | 192.55 | 192.55 | 192.55 | 192.55 |
| 215140 | 37.79 | 37.79 | 37.79 | 37.79 | 72.97 | 72.97 | 72.97 | 72.97 | 91.59 | 91.59 | 91.59 | 91.59 | 100.73 | 100.73 | 100.73 | 100.73 | 146.4 | 146.4 | 146.4 | 146.4 |
| 215150 | 33.9 | 33.9 | 33.9 | 33.9 | 70.67 | 70.67 | 70.67 | 70.67 | 91.54 | 91.54 | 91.54 | 91.54 | 101.91 | 101.91 | 101.91 | 101.91 | 156.38 | 156.38 | 156.38 | 156.38 |
| 215160 | 23.4 | 23.4 | 23.4 | 23.4 | 46.24 | 46.24 | 46.24 | 46.24 | 56.82 | 56.82 | 56.82 | 56.82 | 61.87 | 61.87 | 61.87 | 61.87 | 95.35 | 95.35 | 95.35 | 95.35 |
| 215190 | 2.46 | 2.46 | 2.46 | 2.46 | 15.09 | 15.09 | 15.09 | 15.09 | 20.19 | 20.19 | 20.19 | 20.19 | 22.04 | 22.04 | 22.04 | 22.04 | 27.3 | 27.3 | 27.3 | 27.3 |
| 215200 | 23.54 | 23.55 | 23.55 | 23.55 | 37.05 | 37.05 | 37.05 | 37.05 | 46.44 | 46.44 | 46.44 | 46.44 | 51.12 | 51.12 | 51.12 | 51.12 | 76.26 | 76.26 | 76.26 | 76.26 |
| 215210 | 15.65 | 15.65 | 15.65 | 15.65 | 35.75 | 35.76 | 35.76 | 35.76 | 46.2 | 46.2 | 46.2 | 46.2 | 51.13 | 51.13 | 51.13 | 51.13 | 74.07 | 74.07 | 74.07 | 74.07 |
| 215220 | 2.85 | 2.84 | 2.84 | 2.84 | 9.24 | 9.24 | 9.24 | 9.24 | 12.76 | 12.76 | 12.76 | 12.76 | 13.73 | 13.73 | 13.73 | 13.73 | 21.32 | 21.32 | 21.32 | 21.32 |
| 215230 | 13.62 | 13.62 | 13.62 | 13.62 | 25.59 | 25.59 | 25.59 | 25.59 | 32.34 | 32.34 | 32.34 | 32.34 | 35.7 | 35.7 | 35.7 | 35.7 | 53.44 | 53.44 | 53.44 | 53.44 |
| 215240 | 20.14 | 20.14 | 20.14 | 20.14 | 38.82 | 38.83 | 38.83 | 38.83 | 49.38 | 49.38 | 49.38 | 49.38 | 54.64 | 54.64 | 54.64 | 54.64 | 82.31 | 82.31 | 82.31 | 82.31 |
| 215250 | 2.04 | 2.04 | 2.04 | 2.04 | 3.11 | 3.11 | 3.11 | 3.11 | 1.7 | 1.7 | 1.7 | 1.7 | 1.72 | 1.72 | 1.72 | 1.72 | 2.19 | 2.19 | 2.19 | 2.19 |
| 215260 | 1.06 | 1.06 | 1.06 | 1.06 | 2.3 | 2.3 | 2.3 | 2.3 | 3.38 | 3.38 | 3.38 | 3.38 | 4.01 | 4.01 | 4.01 | 4.01 | 7.61 | 7.61 | 7.61 | 7.61 |
| 215270 | 10.31 | 10.31 | 10.31 | 10.31 | 20.09 | 20.09 | 20.09 | 20.09 | 25.27 | 25.27 | 25.27 | 25.27 | 27.83 | 27.83 | 27.83 | 27.83 | 41.35 | 41.35 | 41.35 | 41.35 |
| 215280 | 3.13 | 3.13 | 3.13 | 3.13 | 3.92 | 3.92 | 3.92 | 3.92 | 5.15 | 5.15 | 5.15 | 5.15 | 5.6 | 5.6 | 5.6 | 5.6 | 7.69 | 7.69 | 7.69 | 7.69 |
| 215290 | 12 | 12.01 | 12.01 | 12.01 | 22.54 | 22.57 | 22.57 | 22.57 | 28.53 | 28.53 | 28.53 | 28.53 | 31.42 | 31.42 | 31.42 | 31.42 | 39.74 | 39.74 | 39.74 | 39.74 |
| 215300 | 7.47 | 7.47 | 7.47 | 7.47 | 14.02 | 14.02 | 14.02 | 14.02 | 17.73 | 17.73 | 17.73 | 17.73 | 19.57 | 19.57 | 19.57 | 19.57 | 29.29 | 29.29 | 29.29 | 29.29 |
| 215310 | 8.67 | 8.67 | 8.67 | 8.67 | 14.2 | 14.2 | 14.2 | 14.2 | 14.26 | 14.26 | 14.26 | 14.26 | 13.46 | 13.46 | 13.46 | 13.46 | 9.63 | 9.63 | 9.63 | 9.63 |
| 215320 | 20.78 | 20.78 | 20.78 | 20.78 | 31.54 | 31.54 | 31.54 | 31.54 | 36.6 | 36.6 | 36.6 | 36.6 | 38.65 | 38.65 | 38.65 | 38.65 | 47.58 | 47.58 | 47.58 | 47.58 |
| 215330 | 35.53 | 35.53 | 35.53 | 35.53 | 68.36 | 68.36 | 68.36 | 68.36 | 86.88 | 86.88 | 86.88 | 86.88 | 96.08 | 96.08 | 96.08 | 96.08 | 144.57 | 144.57 | 144.57 | 144.57 |
| 215400 | 35.54 | 35.54 | 35.54 | 35.54 | 67.5 | 67.5 | 67.5 | 67.5 | 86.86 | 86.86 | 86.86 | 86.86 | 101.21 | 101.21 | 101.21 | 101.21 | 191.58 | 191.58 | 191.58 | 191.58 |
| 215410 | 21.36 | 21.36 | 21.36 | 21.36 | 40.84 | 40.84 | 40.84 | 40.84 | 51.84 | 51.84 | 51.84 | 51.84 | 57.31 | 57.31 | 57.31 | 57.31 | 86.12 | 86.12 | 86.12 | 86.12 |
| 215420 | 4.86 | 4.86 | 4.86 | 4.86 | 7.66 | 7.66 | 7.66 | 7.66 | 9.18 | 9.18 | 9.18 | 9.18 | 9.92 | 9.92 | 9.92 | 9.92 | 13.26 | 13.26 | 13.26 | 13.26 |
| 215430 | 14.84 | 14.84 | 14.84 | 14.84 | 26.95 | 26.95 | 26.95 | 26.95 | 33.82 | 33.82 | 33.82 | 33.82 | 37.25 | 37.25 | 37.25 | 37.25 | 55.38 | 55.38 | 55.38 | 55.38 |
| 215440 | 9.3 | 9.3 | 9.3 | 9.3 | 12.96 | 12.96 | 12.96 | 12.96 | 13.91 | 13.91 | 13.91 | 13.91 | 16.28 | 16.28 | 16.28 | 16.28 | 35.15 | 35.15 | 35.15 | 35.15 |
| 215450 | 46.52 | 46.52 | 46.52 | 46.52 | 87.96 | 87.96 | 87.96 | 87.96 | 109.17 | 109.17 | 109.17 | 109.17 | 118.68 | 118.68 | 118.68 | 118.68 | 164.62 | 164.62 | 164.62 | 164.62 |
| 215460 | 50.04 | 50.04 | 50.04 | 50.04 | 93.65 | 93.65 | 93.65 | 93.65 | 118.26 | 118.26 | 118.26 | 118.26 | 130.52 | 130.52 | 130.52 | 130.52 | 195.2 | 195.2 | 195.2 | 195.2 |
| 215500 | 59.24 | 59.27 | 59.27 | 59.27 | 102.44 | 102.45 | 102.45 | 102.45 | 125.26 | 125.26 | 125.26 | 125.26 | 136.54 | 136.54 | 136.54 | 136.54 | 189.58 | 189.58 | 189.58 | 189.58 |
| 215510 | 74.51 | 74.51 | 74.51 | 74.51 | 134.02 | 134.02 | 134.02 | 134.02 | 165.67 | 165.67 | 165.67 | 165.67 | 181.16 | 181.16 | 181.16 | 181.16 | 262.13 | 262.13 | 262.13 | 262.13 |
| 215520 | 33.93 | 33.93 | 33.93 | 33.93 | 64.89 | 64.86 | 64.86 | 64.86 | 86.97 | 86.97 | 86.97 | 86.97 | 97.39 | 97.39 | 97.39 | 97.39 | 150.65 | 150.65 | 150.65 | 150.65 |
| 215530 | 14.99 | 15 | 15 | 15 | 38.39 | 38.39 | 38.39 | 38.39 | 57.12 | 57.12 | 57.12 | 57.12 | 67.83 | 67.83 | 67.83 | 67.83 | 78.24 | 78.24 | 78.24 | 78.24 |
| 215540 | 85.64 | 85.69 | 85.69 | 85.69 | 155.46 | 155.44 | 155.44 | 155.44 | 186.51 | 186.51 | 186.51 | 186.51 | 193.78 | 193.78 | 193.78 | 193.78 | 218 | 218 | 218 | 218 |
| 215550 | 51.79 | 51.82 | 51.82 | 51.82 | 116.29 | 116.29 | 116.29 | 116.29 | 144.34 | 144.34 | 144.34 | 144.34 | 157.02 | 157.02 | 157.02 | 157.02 | 209.83 | 209.83 | 209.83 | 209.83 |
| 215560 | 37.47 | 37.47 | 37.47 | 37.47 | 85.46 | 85.46 | 85.46 | 85.46 | 109.41 | 109.41 | 109.41 | 109.41 | 121.6 | 121.6 | 121.6 | 121.6 | 195.21 | 195.21 | 195.21 | 195.21 |
| 215570 | 18.97 | 18.97 | 18.97 | 18.97 | 36.08 | 36.08 | 36.08 | 36.08 | 40.71 | 40.71 | 40.71 | 40.71 | 42.26 | 42.26 | 42.26 | 42.26 | 48.28 | 48.28 | 48.28 | 48.28 |
| 215580 | 7.2 | 7.2 | 7.2 | 7.2 | 18.88 | 18.88 | 18.88 | 18.88 | 26.61 | 26.61 | 26.61 | 26.61 | 29.15 | 29.15 | 29.15 | 29.15 | 33.5 | 33.5 | 33.5 | 33.5 |
| 215590 | 13.63 | 13.63 | 13.63 | 13.63 | 26.66 | 26.66 | 26.66 | 26.66 | 35.45 | 35.45 | 35.45 | 35.45 | 39.79 | 39.79 | 39.79 | 39.79 | 59.86 | 59.86 | 59.86 | 59.86 |
| 215600 | 10.75 | 10.75 | 10.75 | 10.75 | 20.95 | 20.95 | 20.95 | 20.95 | 26.69 | 26.69 | 26.69 | 26.69 | 29.56 | 29.56 | 29.56 | 29.56 | 44.6 | 44.6 | 44.6 | 44.6 |
| 215610 | 7.67 | 7.67 | 7.67 | 7.67 | 9.87 | 9.87 | 9.87 | 9.87 | 11.99 | 11.99 | 11.99 | 11.99 | 13.04 | 13.04 | 13.04 | 13.04 | 16.9 | 16.9 | 16.9 | 16.9 |
| 215620 | 3.68 | 3.68 | 3.68 | 3.68 | 5.09 | 5.09 | 5.09 | 5.09 | 5.65 | 5.65 | 5.65 | 5.65 | 5.89 | 5.89 | 5.89 | 5.89 | 6.37 | 6.37 | 6.37 | 6.37 |
| 215630 | 6.84 | 6.84 | 6.84 | 6.84 | 12.49 | 12.49 | 12.49 | 12.49 | 15.69 | 15.69 | 15.69 | 15.69 | 17.29 | 17.29 | 17.29 | 17.29 | 25.74 | 25.74 | 25.74 | 25.74 |
| 215640 | 3.27 | 3.27 | 3.27 | 3.27 | 4.84 | 4.84 | 4.84 | 4.84 | 5.5 | 5.5 | 5.5 | 5.5 | 5.79 | 5.79 | 5.79 | 5.79 | 6.9 | 6.9 | 6.9 | 6.9 |
| 215650 | 5.41 | 5.41 | 5.41 | 5.41 | 9.93 | 9.93 | 9.93 | 9.93 | 12.49 | 12.49 | 12.49 | 12.49 | 13.77 | 13.77 | 13.77 | 13.77 | 20.51 | 20.51 | 20.51 | 20.51 |

Summary of Flow Results at all Nodes

| Node | 2.33YR24HR | | | | 25YR24HR | | | | 50YR24HR | | | | 100YR24HR | | | | 500YR24HR | | | |
|--------|-----------------------|---------------------------------|-----------------------|-----------------------------|-----------------------|---------------------------------|-----------------------|-----------------------------|-----------------------|---------------------------------|-----------------------|-----------------------------|-----------------------|---------------------------------|-----------------------|-----------------------------|-----------------------|---------------------------------|-----------------------|-----------------------------|
| | Effective Model (cfs) | Corrected Effective Model (cfs) | Proposed Bridge (cfs) | Proposed Box Culverts (cfs) | Effective Model (cfs) | Corrected Effective Model (cfs) | Proposed Bridge (cfs) | Proposed Box Culverts (cfs) | Effective Model (cfs) | Corrected Effective Model (cfs) | Proposed Bridge (cfs) | Proposed Box Culverts (cfs) | Effective Model (cfs) | Corrected Effective Model (cfs) | Proposed Bridge (cfs) | Proposed Box Culverts (cfs) | Effective Model (cfs) | Corrected Effective Model (cfs) | Proposed Bridge (cfs) | Proposed Box Culverts (cfs) |
| 216100 | 86.51 | 86.51 | 86.51 | 86.51 | 152.22 | 152.24 | 152.24 | 152.24 | 223.32 | 223.32 | 223.32 | 223.32 | 275.57 | 275.57 | 275.57 | 275.57 | 714.94 | 714.94 | 714.94 | 714.94 |
| 216110 | 104.5 | 104.51 | 104.51 | 104.51 | 369.46 | 369.49 | 369.49 | 369.49 | 542.47 | 542.47 | 542.47 | 542.47 | 627.59 | 627.59 | 627.59 | 627.59 | 1096.89 | 1096.89 | 1096.89 | 1096.89 |
| 216120 | 0.24 | 0.24 | 0.24 | 0.24 | 3.45 | 3.45 | 3.45 | 3.45 | 16.87 | 16.87 | 16.87 | 16.87 | 21.97 | 21.97 | 21.97 | 21.97 | 50.64 | 50.64 | 50.64 | 50.64 |
| 216130 | 56.09 | 56.17 | 56.17 | 56.17 | 157.38 | 157.37 | 157.37 | 157.37 | 204.98 | 204.98 | 204.98 | 204.98 | 228.71 | 228.71 | 228.71 | 228.71 | 331.29 | 331.29 | 331.29 | 331.29 |
| 216140 | 17.63 | 17.64 | 17.64 | 17.64 | 60.53 | 60.53 | 60.53 | 60.53 | 80.89 | 80.89 | 80.89 | 80.89 | 84.76 | 84.76 | 84.76 | 84.76 | 87.09 | 87.09 | 87.09 | 87.09 |
| 216150 | 8.96 | 8.96 | 8.96 | 8.96 | 37.49 | 37.49 | 37.49 | 37.49 | 57.89 | 57.89 | 57.89 | 57.89 | 68.62 | 68.62 | 68.62 | 68.62 | 128.76 | 128.76 | 128.76 | 128.76 |
| 216160 | 39.45 | 39.45 | 39.45 | 39.45 | 72.29 | 72.29 | 72.29 | 72.29 | 90.9 | 90.9 | 90.9 | 90.9 | 100.17 | 100.17 | 100.17 | 100.17 | 149.2 | 149.2 | 149.2 | 149.2 |
| 216170 | 9.99 | 9.99 | 9.99 | 9.99 | 14.14 | 14.13 | 14.13 | 14.13 | 14.65 | 14.65 | 14.65 | 14.65 | 15.04 | 15.04 | 15.04 | 15.04 | 15.49 | 15.49 | 15.49 | 15.49 |
| 216180 | 72.23 | 72.26 | 72.26 | 72.26 | 117.52 | 117.51 | 117.51 | 117.51 | 139.33 | 139.33 | 139.33 | 139.33 | 149.92 | 149.92 | 149.92 | 149.92 | 206.87 | 206.87 | 206.87 | 206.87 |
| 216190 | 19.52 | 19.52 | 19.52 | 19.52 | 40.19 | 40.19 | 40.19 | 40.19 | 51.91 | 51.91 | 51.91 | 51.91 | 57.73 | 57.73 | 57.73 | 57.73 | 96.42 | 96.42 | 96.42 | 96.42 |
| 216200 | 17.11 | 17.11 | 17.11 | 17.11 | 41.6 | 40.79 | 40.79 | 40.79 | 54.75 | 54.75 | 54.75 | 54.75 | 61.41 | 61.41 | 61.42 | 61.42 | 81.37 | 81.37 | 80.85 | 80.85 |
| 216210 | 1.26 | 1.26 | 1.26 | 1.26 | 3.22 | 3.22 | 3.22 | 3.22 | 3.23 | 3.23 | 3.23 | 3.23 | 3.39 | 3.39 | 3.39 | 3.39 | 7.09 | 7.09 | 7.09 | 7.09 |
| 216220 | 46.3 | 46.3 | 46.3 | 46.3 | 84.5 | 84.5 | 84.5 | 84.5 | 106.15 | 106.15 | 106.15 | 106.15 | 116.96 | 116.96 | 116.96 | 116.96 | 174.07 | 174.07 | 174.07 | 174.07 |
| 216230 | 6.84 | 6.84 | 6.84 | 6.84 | 15.87 | 13.98 | 13.11 | 11.26 | 21.88 | 22.52 | 14.32 | 19.16 | 15.64 | 15.63 | 15.64 | 15.64 | 19.49 | 19.49 | 19.49 | 19.49 |
| 216240 | 7.35 | 7.35 | 7.35 | 7.35 | 12.47 | 12.47 | 12.47 | 12.47 | 13.45 | 13.45 | 13.45 | 13.45 | 13.66 | 13.66 | 13.66 | 13.66 | 14.79 | 14.79 | 14.79 | 14.79 |
| 216250 | 13.47 | 13.47 | 13.47 | 13.47 | 24.55 | 24.55 | 24.55 | 24.55 | 30.84 | 30.84 | 30.84 | 30.84 | 33.97 | 33.97 | 33.97 | 33.97 | 50.55 | 50.55 | 50.55 | 50.55 |
| 216260 | 10.62 | 10.62 | 10.62 | 10.62 | 19.9 | 19.9 | 19.9 | 19.9 | 25.14 | 25.14 | 25.14 | 25.14 | 27.74 | 27.74 | 27.74 | 27.74 | 41.5 | 41.5 | 41.5 | 41.5 |
| 216270 | 9.31 | 9.31 | 9.31 | 9.31 | 17.26 | 17.26 | 17.26 | 17.26 | 21.76 | 21.76 | 21.76 | 21.76 | 24 | 24 | 24 | 24 | 35.82 | 35.82 | 35.82 | 35.82 |
| 216280 | 7.93 | 7.93 | 7.93 | 7.93 | 14.9 | 14.9 | 14.9 | 14.9 | 18.83 | 18.83 | 18.83 | 18.83 | 20.79 | 20.79 | 20.79 | 20.79 | 31.12 | 31.12 | 31.12 | 31.12 |
| 216290 | 23.42 | 23.42 | 23.42 | 23.42 | 56.9 | 56.89 | 56.89 | 56.89 | 70.01 | 70.01 | 70.01 | 70.01 | 75 | 75 | 75 | 75 | 92.95 | 92.95 | 92.95 | 92.95 |
| 216300 | 193.27 | 193.27 | 193.27 | 193.27 | 357.18 | 357.18 | 357.18 | 357.18 | 465.27 | 465.27 | 465.27 | 465.27 | 524.22 | 524.22 | 524.22 | 524.22 | 817.89 | 817.89 | 817.89 | 817.89 |
| 216310 | 6.03 | 6.03 | 6.03 | 6.03 | 58.19 | 58.19 | 58.19 | 58.19 | 81.3 | 81.3 | 81.3 | 81.3 | 84.66 | 84.66 | 84.66 | 84.66 | 85.9 | 85.9 | 85.9 | 85.9 |
| 216320 | 62.63 | 62.63 | 62.63 | 62.63 | 117.19 | 117.19 | 117.19 | 117.19 | 148.01 | 148.01 | 148.01 | 148.01 | 163.41 | 163.41 | 163.41 | 163.41 | 256.55 | 256.55 | 256.55 | 256.55 |
| 216330 | 40.41 | 40.41 | 40.41 | 40.41 | 73.25 | 73.25 | 73.25 | 73.25 | 91.9 | 91.9 | 91.9 | 91.9 | 101.21 | 101.21 | 101.21 | 101.21 | 150.45 | 150.45 | 150.45 | 150.45 |
| 216340 | 8.99 | 8.99 | 8.99 | 8.99 | 12.88 | 12.87 | 12.87 | 12.87 | 11.98 | 11.98 | 11.98 | 11.98 | 11.3 | 11.3 | 11.3 | 11.3 | 9.19 | 9.19 | 9.19 | 9.19 |
| 216350 | 14.92 | 14.92 | 14.92 | 14.92 | 28.94 | 28.94 | 28.94 | 28.94 | 36.02 | 36.02 | 36.02 | 36.02 | 40.43 | 40.43 | 40.43 | 40.43 | 60.72 | 60.72 | 60.72 | 60.72 |
| 216360 | 3.43 | 3.43 | 3.43 | 3.43 | 7.47 | 7.47 | 7.47 | 7.47 | 10.27 | 10.27 | 10.27 | 10.27 | 12.54 | 12.54 | 12.54 | 12.54 | 13.59 | 13.59 | 13.59 | 13.59 |
| 216370 | 41.21 | 41.21 | 41.21 | 41.21 | 80.82 | 80.82 | 80.82 | 80.82 | 103.17 | 103.17 | 103.17 | 103.17 | 114.28 | 114.28 | 114.28 | 114.28 | 172.76 | 172.76 | 172.76 | 172.76 |
| 216380 | 37.73 | 37.73 | 37.73 | 37.73 | 145.86 | 145.89 | 145.89 | 145.89 | 227.24 | 227.24 | 227.24 | 227.24 | 264.04 | 264.04 | 264.04 | 264.04 | 432 | 432 | 432 | 432 |
| 216390 | 60.44 | 60.44 | 60.44 | 60.44 | 135.23 | 135.25 | 135.25 | 135.25 | 198.79 | 198.79 | 198.79 | 198.79 | 233.27 | 233.27 | 233.27 | 233.27 | 383.62 | 383.62 | 383.62 | 383.62 |
| 216400 | 5.2 | 5.2 | 5.2 | 5.2 | 12.26 | 12.26 | 12.26 | 12.26 | 16.38 | 16.38 | 16.38 | 16.38 | 18.44 | 18.44 | 18.44 | 18.44 | 29.29 | 29.29 | 29.29 | 29.29 |
| 216410 | 4.63 | 4.63 | 4.63 | 4.63 | 7.15 | 7.15 | 7.15 | 7.15 | 7.99 | 7.99 | 7.99 | 7.99 | 8.28 | 8.28 | 8.28 | 8.28 | 17.92 | 17.92 | 17.92 | 17.92 |
| 216420 | 14.75 | 14.75 | 14.75 | 14.75 | 27.86 | 27.86 | 27.86 | 27.86 | 35.25 | 35.25 | 35.25 | 35.25 | 38.93 | 38.93 | 38.93 | 38.93 | 58.34 | 58.34 | 58.34 | 58.34 |
| 216430 | 25.82 | 25.82 | 25.82 | 25.82 | 52.02 | 52.02 | 52.02 | 52.02 | 68.44 | 68.44 | 68.44 | 68.44 | 77.17 | 77.17 | 77.17 | 77.17 | 117.36 | 117.36 | 117.36 | 117.36 |
| 216440 | 1.88 | 1.88 | 1.88 | 1.88 | 8.85 | 8.85 | 8.85 | 8.85 | 11.65 | 11.65 | 11.65 | 11.65 | 12.4 | 12.4 | 12.4 | 12.4 | 14.14 | 14.14 | 14.14 | 14.14 |
| 216450 | 7.6 | 7.6 | 7.6 | 7.6 | 18.48 | 18.48 | 18.48 | 18.48 | 24.91 | 24.91 | 24.91 | 24.91 | 28.14 | 28.14 | 28.14 | 28.14 | 45.19 | 45.19 | 45.19 | 45.19 |
| 216460 | 3.41 | 3.41 | 3.41 | 3.41 | 15.16 | 15.16 | 15.16 | 15.16 | 23.42 | 23.42 | 23.42 | 23.42 | 27.76 | 27.76 | 27.76 | 27.76 | 52.1 | 52.1 | 52.1 | 52.1 |
| 216470 | 3.46 | 3.46 | 3.46 | 3.46 | 15.56 | 15.56 | 15.56 | 15.56 | 20.84 | 20.84 | 20.84 | 20.84 | 22.02 | 22.02 | 22.02 | 22.02 | 26.41 | 26.41 | 26.41 | 26.41 |
| 216480 | 13.23 | 13.23 | 13.23 | 13.23 | 25.74 | 25.74 | 25.74 | 25.74 | 32.78 | 32.78 | 32.78 | 32.78 | 36.29 | 36.29 | 36.29 | 36.29 | 54.73 | 54.73 | 54.73 | 54.73 |
| 216490 | 0.95 | 0.95 | 0.95 | 0.95 | 4.86 | 4.86 | 4.86 | 4.86 | 6.28 | 6.28 | 6.28 | 6.28 | 7.26 | 7.26 | 7.26 | 7.26 | 12.53 | 12.53 | 12.53 | 12.53 |
| 216500 | 16.97 | 16.97 | 16.97 | 16.97 | 31.74 | 31.74 | 31.74 | 31.74 | 40.08 | 40.08 | 40.08 | 40.08 | 44.24 | 44.24 | 44.24 | 44.24 | 66.15 | 66.15 | 66.15 | 66.15 |
| 216510 | 18.4 | 18.39 | 18.39 | 18.39 | 24.32 | 24.33 | 24.33 | 24.33 | 25.99 | 25.99 | 25.99 | 25.99 | 25.94 | 25.94 | 25.94 | 25.94 | 22.32 | 22.32 | 22.32 | 22.32 |
| 216520 | 56.25 | 56.23 | 56.23 | 56.23 | 105.95 | 105.94 | 105.94 | 105.94 | 125.47 | 125.47 | 125.47 | 125.47 | 134.83 | 134.83 | 134.83 | 134.83 | 203.18 | 203.18 | 203.18 | 203.18 |
| 216530 | 41.5 | 41.5 | 41.5 | 41.5 | 93.87 | 93.87 | 93.87 | 93.87 | 124.18 | 124.18 | 124.18 | 124.18 | 139.31 | 139.31 | 139.31 | 139.31 | 218.9 | 218.9 | 218.9 | 218.9 |
| 216540 | 2.26 | 2.26 | 2.26 | 2.26 | 15.66 | 15.67 | 15.67 | 15.67 | 17.07 | 17.07 | 17.07 | 17.07 | 17.56 | 17.56 | 17.56 | 17.56 | 18.26 | 18.26 | 18.26 | 18.26 |
| 216550 | 31.59 | 31.02 | 31.02 | 31.02 | 74.83 | 74.92 | 74.92 | 74.92 | 85.21 | 85.21 | 85.21 | 85.21 | 85.32 | 85.32 | 85.32 | 85.32 | 78.62 | 78.62 | 78.62 | 78.62 |
| 216560 | 14.76 | 14.76 | 14.76 | 14.76 | 74.01 | 74.01 | 74.01 | 74.01 | 107.72 | 107.72 | 107.72 | 107.72 | 123.16 | 123.16 | 123.16 | 123.16 | 201.74 | 201.74 | 201.74 | 201.74 |
| 216570 | 5.76 | 5.76 | 5.76 | 5.76 | 14.06 | 14.06 | 14.06 | 14.06 | 18.97 | 18.97 | 18.97 | 18.97 | 21.43 | 21.43 | 21.43 | 21.43 | 34.45 | 34.45 | 34.45 | 34.45 |
| 216580 | 12.94 | 12.94 | 12.94 | 12.94 | 31.47 | 31.47 | 31.47 | 31.47 | 42.51 | 42.51 | 42.51 | 42.51 | 48.06 | 48.06 | 48.06 | 48.06 | 77.4 | 77.4 | 77.4 | 77.4 |
| 216590 | 8.64 | 8.64 | 8.64 | 8.64 | 22.93 | 22.93 | 22.93 | 22.93 | 31.57 | 31.57 | 31.57 | 31.57 | 35.92 | 35.92 | 35.92 | 35.92 | 59.08 | 59.08 | 59.08 | 59.08 |
| 216600 | 20.08 | 20.08 | 20.08 | 20.08 | 42.52 | 42.54 | 42.54 | 42.54 | 101.13 | 101.13 | 101.13 | 101.13 | 131.9 | 131.9 | 131.9 | 131.9 | 289.1 | 289.1 | 289.1 | 289.1 |
| 216610 | 8.58 | 8.58 | 8.58 | 8.58 | 15.53 | 15.53 | 15.53 | 15.53 | 19.46 | 19.46 | 19.46 | 19.46 | 21.42 | 21.42 | 21.42 | 21.42 | 51.33 | 51.33 | 51.33 | 51.33 |
| 216620 | 0.35 | 0.35 | 0.35 | 0.35 | 9.37 | 9.37 | 9.37 | 9.37 | 18.68 | 18.68 | 18.68 | 18.68 | 21.61 | 21.61 | 21.61 | 21.61 | 27.26 | 27.26 | 27.26 | 27.26 |
| 216630 | 11.51 | 11.51 | 11.51 | 11.51 | 25.3 | 25.3 | 25.3 | 25.3 | 33.22 | 33.22 | 33.22 | 33.22 | 37.17 | 37.17 | 37.17 | 37.17 | 57.91 | 57.91 | 57.91 | 57.91 |
| 216640 | 18.82 | 18.82 | 18.82 | 18.82 | 58.47 | 58.47 | 58.47 | 58.47 | 84.2 | 84.2 | 84.2 | 84.2 | 97.41 | 97.41 | 97.41 | 97.41 | 239.25 | 239.25 | 239.25 | 239.25 |
| 216650 | 3 | 3 | 3 | 3 | 13.07 | 13.07 | 13.07 | 13.07 | 19.89 | 19.8 | | | | | | | | | | |

Summary of Flow Results at all Nodes

| Node | 2.33YR24HR | | | | 25YR24HR | | | | 50YR24HR | | | | 100YR24HR | | | | 500YR24HR | | | |
|--------|-----------------------|---------------------------------|-----------------------|-----------------------------|-----------------------|---------------------------------|-----------------------|-----------------------------|-----------------------|---------------------------------|-----------------------|-----------------------------|-----------------------|---------------------------------|-----------------------|-----------------------------|-----------------------|---------------------------------|-----------------------|-----------------------------|
| | Effective Model (cfs) | Corrected Effective Model (cfs) | Proposed Bridge (cfs) | Proposed Box Culverts (cfs) | Effective Model (cfs) | Corrected Effective Model (cfs) | Proposed Bridge (cfs) | Proposed Box Culverts (cfs) | Effective Model (cfs) | Corrected Effective Model (cfs) | Proposed Bridge (cfs) | Proposed Box Culverts (cfs) | Effective Model (cfs) | Corrected Effective Model (cfs) | Proposed Bridge (cfs) | Proposed Box Culverts (cfs) | Effective Model (cfs) | Corrected Effective Model (cfs) | Proposed Bridge (cfs) | Proposed Box Culverts (cfs) |
| 217160 | 10.36 | 10.37 | 10.37 | 10.37 | 18.6 | 18.61 | 18.61 | 18.61 | 18.4 | 18.4 | 18.4 | 18.4 | 19.26 | 19.26 | 19.26 | 19.26 | 23.37 | 23.37 | 23.37 | 23.37 |
| 217170 | 3.4 | 3.4 | 3.4 | 3.4 | 2.2 | 2.2 | 2.2 | 2.2 | 2.06 | 2.06 | 2.06 | 2.06 | 2.2 | 2.2 | 2.2 | 2.2 | 5.72 | 5.72 | 5.72 | 5.72 |
| 217180 | 1.77 | 1.77 | 1.77 | 1.77 | 3.14 | 3.14 | 3.14 | 3.14 | 5.35 | 5.35 | 5.35 | 5.35 | 7.77 | 7.77 | 7.77 | 7.77 | 21.43 | 21.43 | 21.43 | 21.43 |
| 217190 | 9.09 | 9.09 | 9.09 | 9.09 | 16.66 | 16.66 | 16.66 | 16.66 | 20.96 | 20.96 | 20.96 | 20.96 | 23.07 | 23.07 | 23.07 | 23.07 | 34.03 | 34.03 | 34.03 | 34.03 |
| 217200 | 4.31 | 4.31 | 4.31 | 4.31 | 7.68 | 7.68 | 7.68 | 7.68 | 9.6 | 9.6 | 9.6 | 9.6 | 10.56 | 10.56 | 10.56 | 10.56 | 15.71 | 15.71 | 15.71 | 15.71 |
| 217210 | 58.47 | 58.48 | 58.48 | 58.48 | 135.9 | 135.9 | 135.9 | 135.9 | 180.64 | 180.64 | 180.64 | 180.64 | 203.16 | 203.16 | 203.16 | 203.16 | 324.05 | 324.05 | 324.05 | 324.05 |
| 217220 | 0.11 | 0.11 | 0.11 | 0.11 | 1.92 | 1.92 | 1.92 | 1.92 | 3.02 | 3.02 | 3.02 | 3.02 | 3.5 | 3.5 | 3.5 | 3.5 | 4.44 | 4.44 | 4.44 | 4.44 |
| 217230 | 2.58 | 2.58 | 2.58 | 2.58 | 4.59 | 4.59 | 4.59 | 4.59 | 9.07 | 9.07 | 9.07 | 9.07 | 11.39 | 11.39 | 11.39 | 11.39 | 21.37 | 21.37 | 21.37 | 21.37 |
| 217240 | 4.05 | 4.05 | 4.05 | 4.05 | 7.21 | 7.21 | 7.21 | 7.21 | 9.02 | 9.02 | 9.02 | 9.02 | 9.92 | 9.92 | 9.92 | 9.92 | 14.7 | 14.7 | 14.7 | 14.7 |
| 217250 | 35.83 | 35.83 | 35.83 | 35.83 | 70.64 | 70.64 | 70.64 | 70.64 | 90.28 | 90.28 | 90.28 | 90.28 | 100.09 | 100.09 | 100.09 | 100.09 | 157.14 | 157.14 | 157.13 | 157.13 |
| 217260 | 25.15 | 25.15 | 25.15 | 25.15 | 57 | 57 | 57 | 57 | 68.58 | 68.58 | 68.58 | 68.58 | 73.63 | 73.63 | 73.63 | 73.63 | 86 | 86 | 86 | 86 |
| 217270 | 33.83 | 33.83 | 33.83 | 33.83 | 68.93 | 68.93 | 68.93 | 68.93 | 88.47 | 88.47 | 88.47 | 88.47 | 98.13 | 98.13 | 98.13 | 98.13 | 148.64 | 148.64 | 148.64 | 148.64 |
| 217280 | 9.49 | 9.49 | 9.49 | 9.49 | 18.46 | 18.46 | 18.46 | 18.46 | 23.24 | 23.24 | 23.24 | 23.24 | 25.57 | 25.57 | 25.57 | 25.57 | 37.64 | 37.64 | 37.64 | 37.64 |
| 217290 | 13.59 | 13.59 | 13.59 | 13.59 | 24.35 | 24.35 | 24.35 | 24.35 | 29.95 | 29.95 | 29.95 | 29.95 | 32.69 | 32.69 | 32.69 | 32.69 | 46.82 | 46.82 | 46.82 | 46.82 |
| 217300 | 8.71 | 8.71 | 8.71 | 8.71 | 16.99 | 16.99 | 16.99 | 16.99 | 21.65 | 21.65 | 21.65 | 21.65 | 23.97 | 23.97 | 23.97 | 23.97 | 36.16 | 36.16 | 36.16 | 36.16 |
| 217310 | 4.36 | 4.36 | 4.36 | 4.36 | 8.5 | 8.5 | 8.5 | 8.5 | 10.83 | 10.83 | 10.83 | 10.83 | 11.99 | 11.99 | 11.99 | 11.99 | 18.09 | 18.09 | 18.09 | 18.09 |
| 217320 | 4.11 | 4.11 | 4.11 | 4.11 | 8.5 | 8.5 | 8.5 | 8.5 | 10.98 | 10.98 | 10.98 | 10.98 | 12.22 | 12.22 | 12.22 | 12.22 | 18.72 | 18.72 | 18.72 | 18.72 |
| 217330 | 1.61 | 1.62 | 1.62 | 1.62 | 7.24 | 7.24 | 7.24 | 7.24 | 9.45 | 9.45 | 9.45 | 9.45 | 9.58 | 9.58 | 9.58 | 9.58 | 17.6 | 17.6 | 17.6 | 17.6 |
| 217340 | 6.31 | 6.31 | 6.31 | 6.31 | 11.62 | 11.62 | 11.62 | 11.62 | 14.62 | 14.62 | 14.62 | 14.62 | 16.11 | 16.11 | 16.11 | 16.11 | 35.98 | 35.98 | 35.98 | 35.98 |
| 217350 | 7.78 | 7.78 | 7.78 | 7.78 | 17.8 | 17.8 | 17.8 | 17.8 | 22.5 | 22.5 | 22.5 | 22.5 | 24.31 | 24.31 | 24.31 | 24.31 | 29.11 | 29.11 | 29.11 | 29.11 |
| 217360 | 12.77 | 12.77 | 12.77 | 12.77 | 24.74 | 24.74 | 24.74 | 24.74 | 31.49 | 31.49 | 31.49 | 31.49 | 34.84 | 34.84 | 34.84 | 34.84 | 52.5 | 52.5 | 52.5 | 52.5 |
| 217370 | 14.57 | 14.57 | 14.57 | 14.57 | 28.45 | 28.45 | 28.45 | 28.45 | 36.28 | 36.28 | 36.28 | 36.28 | 40.17 | 40.17 | 40.17 | 40.17 | 60.63 | 60.63 | 60.63 | 60.63 |
| 217380 | 4.82 | 4.82 | 4.82 | 4.82 | 10.94 | 10.94 | 10.94 | 10.94 | 14.48 | 14.48 | 14.48 | 14.48 | 16.04 | 16.04 | 16.04 | 16.04 | 19.27 | 19.27 | 19.27 | 19.27 |
| 217390 | 8.27 | 8.27 | 8.27 | 8.27 | 16.77 | 16.77 | 16.77 | 16.77 | 21.57 | 21.57 | 21.57 | 21.57 | 23.96 | 23.96 | 23.96 | 23.96 | 36.49 | 36.49 | 36.49 | 36.49 |
| 217400 | 4.59 | 4.59 | 4.59 | 4.59 | 19.67 | 19.67 | 19.67 | 19.67 | 30.67 | 30.67 | 30.67 | 30.67 | 36.58 | 36.58 | 36.58 | 36.58 | 69.92 | 69.92 | 69.92 | 69.92 |
| 217410 | 0.43 | 0.43 | 0.43 | 0.43 | 3 | 3 | 3 | 3 | 11.09 | 11.09 | 11.09 | 11.09 | 20.97 | 20.97 | 20.97 | 20.97 | 61.91 | 61.91 | 61.91 | 61.91 |
| 217420 | 26.36 | 26.36 | 26.36 | 26.36 | 62.15 | 62.15 | 62.15 | 62.15 | 83.1 | 83.1 | 83.1 | 83.1 | 93.58 | 93.58 | 93.58 | 93.58 | 148.88 | 148.88 | 148.88 | 148.88 |
| 217430 | 22.2 | 22.2 | 22.2 | 22.2 | 65.9 | 65.9 | 65.9 | 65.9 | 91.91 | 91.91 | 91.91 | 91.91 | 105.44 | 105.44 | 105.44 | 105.44 | 174.78 | 174.78 | 174.78 | 174.78 |
| 217440 | 9.87 | 9.87 | 9.87 | 9.87 | 37.15 | 37.15 | 37.15 | 37.15 | 58.44 | 58.44 | 58.44 | 58.44 | 69.19 | 69.19 | 69.19 | 69.19 | 124.27 | 124.27 | 124.27 | 124.27 |
| 217450 | 7.2 | 7.2 | 7.2 | 7.2 | 29.79 | 29.79 | 29.79 | 29.79 | 45.55 | 45.55 | 45.55 | 45.55 | 53.54 | 53.54 | 53.54 | 53.54 | 96.35 | 96.35 | 96.35 | 96.35 |
| 217460 | 1.96 | 1.96 | 1.96 | 1.96 | 8.23 | 8.23 | 8.23 | 8.23 | 12.66 | 12.66 | 12.66 | 12.66 | 15.01 | 15.01 | 15.01 | 15.01 | 28.57 | 28.57 | 28.57 | 28.57 |
| 217470 | 5.75 | 5.75 | 5.75 | 5.75 | 13.8 | 13.8 | 13.8 | 13.8 | 18.52 | 18.52 | 18.52 | 18.52 | 20.88 | 20.88 | 20.88 | 20.88 | 33.33 | 33.33 | 33.33 | 33.33 |
| 217480 | 3.23 | 3.23 | 3.23 | 3.23 | 12.32 | 12.32 | 12.32 | 12.32 | 18.55 | 18.55 | 18.55 | 18.55 | 21.89 | 21.89 | 21.89 | 21.89 | 40.67 | 40.67 | 40.67 | 40.67 |
| 217490 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4.98 | 4.98 | 4.98 | 4.98 |
| 217500 | 10.1 | 10.1 | 10.1 | 10.1 | 30.7 | 30.7 | 30.7 | 30.7 | 43.67 | 43.67 | 43.67 | 43.67 | 50.29 | 50.29 | 50.29 | 50.29 | 86.03 | 86.03 | 86.03 | 86.03 |
| 217510 | 40.18 | 40.2 | 40.2 | 40.2 | 132.88 | 132.96 | 132.96 | 132.96 | 185.7 | 185.7 | 185.7 | 185.7 | 212.39 | 212.39 | 212.39 | 212.39 | 381.65 | 381.65 | 381.65 | 381.65 |
| 217520 | 3.13 | 3.13 | 3.13 | 3.13 | 13.64 | 13.65 | 13.65 | 13.65 | 16.18 | 16.18 | 16.18 | 16.18 | 17.91 | 17.91 | 17.91 | 17.91 | 47.5 | 47.5 | 47.5 | 47.5 |
| 217530 | 3.14 | 3.14 | 3.14 | 3.14 | 16.51 | 16.51 | 16.51 | 16.51 | 26.3 | 26.3 | 26.3 | 26.3 | 31.5 | 31.5 | 31.5 | 31.5 | 62.05 | 62.05 | 62.05 | 62.05 |
| 217540 | 41.16 | 41.16 | 41.16 | 41.16 | 89.1 | 89.1 | 89.1 | 89.1 | 117.39 | 117.39 | 117.39 | 117.39 | 131.68 | 131.68 | 131.68 | 131.68 | 245.46 | 245.46 | 245.46 | 245.46 |
| 217550 | 5.3 | 5.3 | 5.3 | 5.3 | 8.16 | 8.16 | 8.16 | 8.16 | 9.24 | 9.24 | 9.24 | 9.24 | 9.56 | 9.56 | 9.56 | 9.56 | 16.78 | 16.78 | 16.78 | 16.78 |
| 217560 | 26.15 | 26.15 | 26.15 | 26.15 | 52.59 | 52.59 | 52.59 | 52.59 | 67.54 | 67.54 | 67.54 | 67.54 | 74.98 | 74.98 | 74.98 | 74.98 | 116.02 | 116.02 | 116.02 | 116.02 |
| 217570 | 4.98 | 4.98 | 4.98 | 4.98 | 17.48 | 17.48 | 17.48 | 17.48 | 25.8 | 25.8 | 25.8 | 25.8 | 30.15 | 30.15 | 30.15 | 30.15 | 54.06 | 54.06 | 54.06 | 54.06 |
| 217580 | 5.92 | 5.92 | 5.92 | 5.92 | 9.95 | 9.95 | 9.95 | 9.95 | 11.35 | 11.35 | 11.35 | 11.35 | 11.61 | 11.61 | 11.61 | 11.61 | 19.13 | 19.13 | 19.13 | 19.13 |
| 217590 | 16.14 | 16.14 | 16.14 | 16.14 | 34.97 | 34.97 | 34.97 | 34.97 | 45.78 | 45.78 | 45.78 | 45.78 | 51.17 | 51.17 | 51.17 | 51.17 | 79.52 | 79.52 | 79.52 | 79.52 |
| 217600 | 9.57 | 9.57 | 9.57 | 9.57 | 19.95 | 19.95 | 19.95 | 19.95 | 25.86 | 25.86 | 25.86 | 25.86 | 28.81 | 28.81 | 28.81 | 28.81 | 49.18 | 49.18 | 49.18 | 49.18 |
| 217610 | 52.34 | 52.34 | 52.34 | 52.34 | 96.31 | 96.31 | 96.31 | 96.31 | 119.83 | 119.83 | 119.83 | 119.83 | 129.95 | 129.95 | 129.95 | 129.95 | 152.4 | 152.4 | 152.4 | 152.4 |
| 217620 | 10.68 | 10.68 | 10.68 | 10.68 | 20.1 | 20.1 | 20.1 | 20.1 | 21.77 | 21.77 | 21.77 | 21.77 | 22.26 | 22.26 | 22.26 | 22.26 | 22.36 | 22.36 | 22.36 | 22.36 |
| 217630 | 25.15 | 25.15 | 25.15 | 25.15 | 47.83 | 47.83 | 47.83 | 47.83 | 60.62 | 60.62 | 60.62 | 60.62 | 66.99 | 66.99 | 66.99 | 66.99 | 100.53 | 100.53 | 100.53 | 100.53 |
| 217640 | 40.04 | 40.04 | 40.04 | 40.04 | 73.01 | 73.01 | 73.01 | 73.01 | 91.7 | 91.7 | 91.7 | 91.7 | 101.02 | 101.02 | 101.02 | 101.02 | 150.33 | 150.33 | 150.33 | 150.33 |
| 220000 | 62.43 | 62.45 | 62.45 | 62.45 | 118.63 | 118.63 | 118.63 | 118.63 | 145.61 | 145.61 | 145.61 | 145.61 | 160.25 | 160.25 | 160.25 | 160.25 | 203.65 | 203.65 | 203.65 | 203.65 |
| 220010 | 40.94 | 40.95 | 40.95 | 40.95 | 86.29 | 86.31 | 86.31 | 86.31 | 116.04 | 116.04 | 116.04 | 116.04 | 130.3 | 130.3 | 130.3 | 130.3 | 190.47 | 190.47 | 190.47 | 190.47 |
| 220020 | 40.61 | 40.62 | 40.62 | 40.62 | 85.35 | 85.37 | 85.37 | 85.37 | 113.61 | 113.61 | 113.61 | 113.61 | 126.39 | 126.39 | 126.39 | 126.39 | 180.52 | 180.52 | 180.52 | 180.52 |
| 220030 | 22.44 | 22.43 | 22.43 | 22.43 | 47.78 | 47.78 | 47.78 | 47.78 | 60.66 | 60.66 | 60.66 | 60.66 | 68.53 | 68.53 | 68.53 | 68.53 | 92.68 | 92.68 | 92.68 | 92.68 |
| 220040 | 46.22 | 46.23 | 46.23 | 46.23 | 138.97 | 138.98 | 138.98 | 138.98 | 194.46 | 194.46 | 194.46 | 194.46 | 216.33 | 216.33 | 216.33 | 216.33 | 357.76 | 357.76 | 357.76 | 357.76 |
| 220050 | 44.14 | 44.16 | 44.16 | 44.16 | 51.68 | 51.68 | 51.68 | 51.68 | 69.86 | 69.86 | 69.86 | 69.86 | 75.94 | 75.94 | 75.94 | 75.94 | 94.41 | 94.41 | 94.41 | 94.41 |
| 220060 | 91.45 | 91.34 | 91.34 | 91.34 | 138.76 | 138.78 | 138.78 | 138.78 | 190.1 | 190.1 | 190.1 | 190.1 | 210.81 | 210.81 | 210.81 | 210.81 | 326.09 | 326.09 | 326.09 | 326.09 |
| 220070 | 57.39 | 57.4 | 57.4 | 57.4 | 146.96 | 146.99 | 146.99 | 146.99 | 214.93 | 214.93 | 214.93 | 214.93 | 2 | | | | | | | |

Summary of Flow Results at all Nodes

| Node | 2.33YR24HR | | | | 25YR24HR | | | | 50YR24HR | | | | 100YR24HR | | | | 500YR24HR | | | |
|--------|-----------------------|---------------------------------|-----------------------|-----------------------------|-----------------------|---------------------------------|-----------------------|-----------------------------|-----------------------|---------------------------------|-----------------------|-----------------------------|-----------------------|---------------------------------|-----------------------|-----------------------------|-----------------------|---------------------------------|-----------------------|-----------------------------|
| | Effective Model (cfs) | Corrected Effective Model (cfs) | Proposed Bridge (cfs) | Proposed Box Culverts (cfs) | Effective Model (cfs) | Corrected Effective Model (cfs) | Proposed Bridge (cfs) | Proposed Box Culverts (cfs) | Effective Model (cfs) | Corrected Effective Model (cfs) | Proposed Bridge (cfs) | Proposed Box Culverts (cfs) | Effective Model (cfs) | Corrected Effective Model (cfs) | Proposed Bridge (cfs) | Proposed Box Culverts (cfs) | Effective Model (cfs) | Corrected Effective Model (cfs) | Proposed Bridge (cfs) | Proposed Box Culverts (cfs) |
| 220610 | 26.92 | 26.93 | 26.93 | 26.93 | 36.4 | 36.42 | 36.42 | 36.42 | 35.99 | 35.99 | 35.99 | 35.99 | 35.33 | 35.33 | 35.33 | 35.33 | 30.22 | 30.22 | 30.22 | 30.22 |
| 220620 | 26.65 | 26.66 | 26.66 | 26.66 | 44.43 | 44.33 | 44.33 | 44.33 | 62.73 | 62.73 | 62.73 | 62.73 | 71.82 | 71.82 | 71.82 | 71.82 | 113.87 | 113.87 | 113.87 | 113.87 |
| 220630 | 18.2 | 18.2 | 18.2 | 18.2 | 24.07 | 24.07 | 24.07 | 24.07 | 24.24 | 24.24 | 24.24 | 24.24 | 24.25 | 24.25 | 24.25 | 24.25 | 24.25 | 24.25 | 24.25 | 24.25 |
| 220640 | 23.45 | 23.46 | 23.46 | 23.46 | 47.43 | 47.42 | 47.42 | 47.42 | 60.51 | 60.51 | 60.51 | 60.51 | 67.19 | 67.19 | 67.19 | 67.19 | 101.94 | 101.94 | 101.94 | 101.94 |
| 220650 | 3.4 | 3.4 | 3.4 | 3.4 | 4.12 | 4.12 | 4.12 | 4.12 | 5.06 | 5.06 | 5.06 | 5.06 | 5.57 | 5.57 | 5.57 | 5.57 | 10.24 | 10.24 | 10.24 | 10.24 |
| 220660 | 3.79 | 3.79 | 3.79 | 3.79 | 7.39 | 7.39 | 7.39 | 7.39 | 9.42 | 9.42 | 9.42 | 9.42 | 10.43 | 10.43 | 10.43 | 10.43 | 15.74 | 15.74 | 15.74 | 15.74 |
| 220670 | 0.95 | 0.95 | 0.95 | 0.95 | 2.94 | 2.94 | 2.94 | 2.94 | 3.58 | 3.58 | 3.58 | 3.58 | 4 | 4 | 4 | 4 | 11.04 | 11.04 | 11.04 | 11.04 |
| 220680 | 6.5 | 6.5 | 6.5 | 6.5 | 13.27 | 13.27 | 13.27 | 13.27 | 17.1 | 17.1 | 17.1 | 17.1 | 19.01 | 19.01 | 19.01 | 19.01 | 29.01 | 29.01 | 29.01 | 29.01 |
| 220690 | 3.66 | 3.67 | 3.67 | 3.67 | 20.34 | 20.36 | 20.36 | 20.36 | 24 | 24 | 24 | 24 | 24.45 | 24.45 | 24.45 | 24.45 | 21.79 | 21.79 | 21.79 | 21.79 |
| 220700 | 58.45 | 58.46 | 58.46 | 58.46 | 58.45 | 58.46 | 58.46 | 58.46 | 58.46 | 58.46 | 58.46 | 58.46 | 58.46 | 58.46 | 58.46 | 58.46 | 70.79 | 70.79 | 70.79 | 70.79 |
| 220710 | 85.95 | 85.95 | 85.95 | 85.95 | 85.95 | 85.95 | 85.95 | 85.95 | 85.95 | 85.95 | 85.95 | 85.95 | 85.95 | 85.95 | 85.95 | 85.95 | 85.95 | 85.95 | 85.95 | 85.95 |
| 220720 | 12.97 | 12.88 | 12.88 | 12.88 | 18.7 | 18.71 | 18.71 | 18.71 | 21.95 | 21.95 | 21.95 | 21.95 | 24.27 | 24.27 | 24.27 | 24.27 | 34.56 | 34.56 | 34.56 | 34.56 |
| 220730 | 44.21 | 43.37 | 43.37 | 43.37 | 46.57 | 46.57 | 46.57 | 46.57 | 52.55 | 52.55 | 52.55 | 52.55 | 54.1 | 54.1 | 54.1 | 54.1 | 61.22 | 61.22 | 61.22 | 61.22 |
| 220740 | 16 | 16.08 | 16.08 | 16.08 | 22.02 | 22.02 | 22.02 | 22.02 | 30 | 30 | 30 | 30 | 32.28 | 32.28 | 32.28 | 32.28 | 43.45 | 43.45 | 43.45 | 43.45 |
| 220750 | 69.72 | 69.09 | 69.09 | 69.09 | 69.72 | 69.09 | 69.09 | 69.09 | 69.09 | 69.09 | 69.09 | 69.09 | 69.09 | 69.09 | 69.09 | 69.09 | 71.94 | 71.94 | 71.94 | 71.94 |
| 220760 | 22.78 | 23.62 | 23.62 | 23.62 | 33.76 | 33.76 | 33.76 | 33.76 | 41.59 | 41.59 | 41.59 | 41.59 | 47.19 | 47.19 | 47.19 | 47.19 | 77.93 | 77.93 | 77.93 | 77.93 |
| 220770 | 17.09 | 16.9 | 16.9 | 16.9 | 26.59 | 26.59 | 26.59 | 26.59 | 39.34 | 39.34 | 39.34 | 39.34 | 47.65 | 47.65 | 47.65 | 47.65 | 85.39 | 85.39 | 85.39 | 85.39 |
| 220780 | 0.76 | 0.76 | 0.76 | 0.76 | 9.12 | 9.12 | 9.12 | 9.12 | 17.67 | 17.67 | 17.67 | 17.67 | 21.76 | 21.76 | 21.76 | 21.76 | 33.7 | 33.7 | 33.7 | 33.7 |
| 220790 | 10.99 | 10.99 | 10.99 | 10.99 | 21.43 | 21.43 | 21.43 | 21.43 | 27.31 | 27.31 | 27.31 | 27.31 | 30.24 | 30.24 | 30.24 | 30.24 | 45.62 | 45.62 | 45.62 | 45.62 |
| 220800 | 2.73 | 2.73 | 2.73 | 2.73 | 6.73 | 6.73 | 6.73 | 6.73 | 7.31 | 7.31 | 7.31 | 7.31 | 7.15 | 7.15 | 7.15 | 7.15 | 6.05 | 6.05 | 6.05 | 6.05 |
| 220810 | 1.82 | 1.82 | 1.82 | 1.82 | 3.22 | 3.22 | 3.22 | 3.22 | 3.65 | 3.65 | 3.65 | 3.65 | 3.92 | 3.92 | 3.92 | 3.92 | 3.87 | 3.87 | 3.87 | 3.87 |
| 220820 | 3.69 | 3.69 | 3.69 | 3.69 | 6.81 | 6.81 | 6.81 | 6.81 | 8.57 | 8.57 | 8.57 | 8.57 | 9.45 | 9.45 | 9.45 | 9.45 | 14.5 | 14.5 | 14.5 | 14.5 |
| 220830 | 1.91 | 1.92 | 1.92 | 1.92 | 3.75 | 3.74 | 3.74 | 3.74 | 4.26 | 4.26 | 4.26 | 4.26 | 4.2 | 4.2 | 4.2 | 4.2 | 11.62 | 11.62 | 11.62 | 11.62 |
| 220840 | 3.64 | 3.64 | 3.64 | 3.64 | 7.97 | 7.97 | 7.97 | 7.97 | 10.45 | 10.45 | 10.45 | 10.45 | 11.68 | 11.68 | 11.68 | 11.68 | 24.92 | 24.92 | 24.92 | 24.92 |
| 220850 | 4.11 | 4.11 | 4.11 | 4.11 | 13.93 | 13.93 | 13.93 | 13.93 | 18.25 | 18.25 | 18.25 | 18.25 | 20.36 | 20.36 | 20.36 | 20.36 | 24.75 | 24.75 | 24.75 | 24.75 |
| 220860 | 17.88 | 17.88 | 17.88 | 17.88 | 36.81 | 36.81 | 36.81 | 36.81 | 47.53 | 47.53 | 47.53 | 47.53 | 52.86 | 52.86 | 52.86 | 52.86 | 80.85 | 80.85 | 80.85 | 80.85 |
| 220870 | 4.35 | 4.35 | 4.35 | 4.35 | 8.88 | 8.89 | 8.89 | 8.89 | 10.91 | 10.91 | 10.91 | 10.91 | 11.72 | 11.72 | 11.72 | 11.72 | 13.13 | 13.13 | 13.13 | 13.13 |
| 220880 | 12.66 | 12.66 | 12.66 | 12.66 | 22.02 | 22.06 | 22.06 | 22.06 | 33.12 | 33.12 | 33.12 | 33.12 | 39.75 | 39.75 | 39.75 | 39.75 | 59 | 59 | 59 | 59 |
| 220890 | 0 | 0 | 0 | 0 | 3.45 | 3.45 | 3.45 | 3.45 | 11.23 | 11.23 | 11.23 | 11.23 | 15.89 | 15.89 | 15.89 | 15.89 | 41.28 | 41.28 | 41.28 | 41.28 |
| 220900 | 10.91 | 10.91 | 10.91 | 10.91 | 21.26 | 21.26 | 21.26 | 21.26 | 27.09 | 27.09 | 27.09 | 27.09 | 33.17 | 33.17 | 33.17 | 33.17 | 71.69 | 71.69 | 71.69 | 71.69 |
| 220910 | 8.69 | 8.69 | 8.69 | 8.69 | 16.95 | 16.95 | 16.95 | 16.95 | 21.6 | 21.6 | 21.6 | 21.6 | 23.91 | 23.91 | 23.91 | 23.91 | 36.09 | 36.09 | 36.09 | 36.09 |
| 220920 | 0.42 | 0.42 | 0.42 | 0.42 | 3.03 | 3.03 | 3.03 | 3.03 | 8.91 | 8.91 | 8.91 | 8.91 | 12.87 | 12.87 | 12.87 | 12.87 | 17.98 | 17.98 | 17.98 | 17.98 |
| 220930 | 2.56 | 2.56 | 2.56 | 2.56 | 5.4 | 5.4 | 5.4 | 5.4 | 12.28 | 12.28 | 12.28 | 12.28 | 18.95 | 18.95 | 18.95 | 18.95 | 45.3 | 45.3 | 45.3 | 45.3 |
| 220940 | 8.89 | 8.89 | 8.89 | 8.89 | 25.75 | 25.75 | 25.75 | 25.75 | 36.2 | 36.2 | 36.2 | 36.2 | 41.52 | 41.52 | 41.52 | 41.52 | 73.18 | 73.18 | 73.18 | 73.18 |
| 220950 | 1.29 | 1.29 | 1.29 | 1.29 | 5.5 | 5.5 | 5.5 | 5.5 | 8.34 | 8.34 | 8.34 | 8.34 | 9.82 | 9.82 | 9.82 | 9.82 | 19.3 | 19.3 | 19.3 | 19.3 |
| 220960 | 1.17 | 1.17 | 1.17 | 1.17 | 5.1 | 5.1 | 5.1 | 5.1 | 7.76 | 7.76 | 7.76 | 7.76 | 9.16 | 9.16 | 9.16 | 9.16 | 16.91 | 16.91 | 16.91 | 16.91 |
| 220970 | 6.2 | 6.2 | 6.2 | 6.2 | 13.29 | 13.29 | 13.29 | 13.29 | 17.33 | 17.33 | 17.33 | 17.33 | 19.34 | 19.34 | 19.34 | 19.34 | 29.91 | 29.91 | 29.91 | 29.91 |
| 220980 | 39.35 | 39.35 | 39.35 | 39.35 | 76.76 | 76.77 | 76.77 | 76.77 | 98.22 | 98.22 | 98.22 | 98.22 | 107.09 | 107.09 | 107.09 | 107.09 | 125.5 | 125.5 | 125.5 | 125.5 |
| 220990 | 39.5 | 39.5 | 39.5 | 39.5 | 77.15 | 77.15 | 77.15 | 77.15 | 98.38 | 98.38 | 98.38 | 98.38 | 108.93 | 108.93 | 108.93 | 108.93 | 164.46 | 164.46 | 164.46 | 164.46 |
| 221000 | 25.04 | 25.14 | 25.14 | 25.14 | 53.26 | 53.55 | 53.55 | 53.55 | 66.26 | 66.26 | 66.26 | 66.26 | 68.61 | 68.61 | 68.61 | 68.61 | 86.31 | 86.31 | 86.3 | 86.3 |
| 221020 | 3.52 | 3.52 | 3.52 | 3.52 | 6.87 | 6.87 | 6.87 | 6.87 | 8.75 | 8.75 | 8.75 | 8.75 | 10.16 | 10.16 | 10.16 | 10.16 | 25.4 | 25.4 | 25.4 | 25.4 |
| 221030 | 22.39 | 22.44 | 22.44 | 22.44 | 47.9 | 48.12 | 48.12 | 48.12 | 58.94 | 58.94 | 58.94 | 58.94 | 60 | 60 | 60 | 60 | 79.63 | 79.63 | 79.63 | 79.63 |
| 221040 | 13.09 | 13.09 | 13.09 | 13.09 | 28.07 | 28.07 | 28.07 | 28.07 | 36.63 | 36.63 | 36.63 | 36.63 | 40.89 | 40.89 | 40.89 | 40.89 | 63.28 | 63.28 | 63.28 | 63.28 |
| 221050 | 6.44 | 6.44 | 6.44 | 6.44 | 14.59 | 14.59 | 14.59 | 14.59 | 17.81 | 17.81 | 17.81 | 17.81 | 18.42 | 18.42 | 18.42 | 18.42 | 23.1 | 23.1 | 23.1 | 23.1 |
| 221060 | 33.3 | 33.44 | 33.44 | 33.44 | 50.4 | 50.52 | 50.52 | 50.52 | 65.78 | 65.78 | 65.78 | 65.78 | 73.83 | 73.83 | 73.83 | 73.83 | 127.01 | 127.01 | 127.01 | 127.01 |
| 221070 | 21.33 | 21.4 | 21.4 | 21.4 | 37.72 | 37.72 | 37.72 | 37.72 | 63 | 63 | 63 | 63 | 70.02 | 70.02 | 70.02 | 70.02 | 129.39 | 129.39 | 129.39 | 129.39 |
| 221080 | 3.36 | 3.36 | 3.36 | 3.36 | 17 | 17.07 | 17.07 | 17.07 | 25.95 | 25.95 | 25.95 | 25.95 | 31.12 | 31.12 | 31.12 | 31.12 | 56.66 | 56.66 | 56.66 | 56.66 |
| 221090 | 2.73 | 2.73 | 2.73 | 2.73 | 11.41 | 11.41 | 11.41 | 11.41 | 17.56 | 17.56 | 17.56 | 17.56 | 20.79 | 20.79 | 20.79 | 20.79 | 38.91 | 38.91 | 38.91 | 38.91 |
| 221100 | 12.24 | 12.24 | 12.24 | 12.24 | 24.83 | 24.83 | 24.83 | 24.83 | 31.95 | 31.95 | 31.95 | 31.95 | 35.48 | 35.48 | 35.48 | 35.48 | 54.06 | 54.06 | 54.06 | 54.06 |
| 221110 | 10.11 | 10.11 | 10.11 | 10.11 | 32.99 | 33.02 | 33.02 | 33.02 | 51.51 | 51.51 | 51.51 | 51.51 | 60.57 | 60.57 | 60.57 | 60.57 | 110.14 | 110.14 | 110.14 | 110.14 |
| 221120 | 144.69 | 140.5 | 140.5 | 140.5 | 144.69 | 140.5 | 140.5 | 140.5 | 140.5 | 140.5 | 140.5 | 140.5 | 140.5 | 140.5 | 140.5 | 140.5 | 140.5 | 140.5 | 140.5 | 140.5 |
| 221130 | 38.44 | 38.49 | 38.49 | 38.49 | 82.58 | 82.46 | 82.46 | 82.46 | 94.3 | 94.3 | 94.3 | 94.3 | 105.26 | 105.26 | 105.26 | 105.26 | 152.73 | 152.73 | 152.73 | 152.73 |
| 221140 | 24.23 | 24.24 | 24.24 | 24.24 | 54.55 | 54.56 | 54.56 | 54.56 | 68.64 | 68.64 | 68.64 | 68.64 | 73.99 | 73.99 | 73.99 | 73.99 | 91.46 | 91.46 | 91.46 | 91.46 |
| 221150 | 24.36 | 24.36 | 24.36 | 24.36 | 54.16 | 54.16 | 54.16 | 54.16 | 71.6 | 71.6 | 71.6 | 71.6 | 80.41 | 80.41 | 80.41 | 80.41 | 126.73 | 126.73 | 126.73 | 126.73 |
| 221160 | 20.16 | 20.16 | 20.16 | 20.16 | 39.79 | 39.79 | 39.79 | 39.79 | 50.86 | 50.86 | 50.86 | 50.86 | 56.37 | 56.37 | 56.37 | 56.37 | 85.31 | 85.31 | 85.31 | 85.31 |
| 221200 | 4.35 | 4.35 | 4.35 | 4.35 | 10.15 | 10.15 | 10.15 | 10.15 | 12.77 | 12.77 | 12.77 | 12.77 | 13.89 | 13.89 | 13.89 | 13.89 | 25.85 | 25.85 | 25.85 | 25.85 |
| 221210 | 30.49 | 30.49 | 30.49 | 30.49 | 56.71 | 56.71 | 56.71 | 56.71 | 71.52 | 71.52 | 71.52 | 71.52 | 78.9 | 78.9 | 78.9 | 78.9 | 117.86 | 117.86 | 117.86 | 117.86 |
| 221220 | 27. | | | | | | | | | | | | | | | | | | | |

Summary of Flow Results at all Nodes

| Node | 2.33YR24HR | | | | 25YR24HR | | | | 50YR24HR | | | | 100YR24HR | | | | 500YR24HR | | | |
|--------|-----------------------|---------------------------------|-----------------------|-----------------------------|-----------------------|---------------------------------|-----------------------|-----------------------------|-----------------------|---------------------------------|-----------------------|-----------------------------|-----------------------|---------------------------------|-----------------------|-----------------------------|-----------------------|---------------------------------|-----------------------|-----------------------------|
| | Effective Model (cfs) | Corrected Effective Model (cfs) | Proposed Bridge (cfs) | Proposed Box Culverts (cfs) | Effective Model (cfs) | Corrected Effective Model (cfs) | Proposed Bridge (cfs) | Proposed Box Culverts (cfs) | Effective Model (cfs) | Corrected Effective Model (cfs) | Proposed Bridge (cfs) | Proposed Box Culverts (cfs) | Effective Model (cfs) | Corrected Effective Model (cfs) | Proposed Bridge (cfs) | Proposed Box Culverts (cfs) | Effective Model (cfs) | Corrected Effective Model (cfs) | Proposed Bridge (cfs) | Proposed Box Culverts (cfs) |
| 221680 | 20.6 | 20.39 | 20.39 | 20.39 | 21.66 | 21.66 | 21.66 | 21.66 | 33.33 | 33.33 | 33.33 | 33.33 | 37.98 | 37.98 | 37.98 | 37.98 | 57.21 | 57.21 | 57.21 | 57.21 |
| 221690 | 18.95 | 18.95 | 18.95 | 18.95 | 16.09 | 16.09 | 16.09 | 16.09 | 25.06 | 25.06 | 25.06 | 25.06 | 29.91 | 29.91 | 29.91 | 29.91 | 46.52 | 46.52 | 46.52 | 46.52 |
| 221700 | 4.96 | 4.96 | 4.96 | 4.96 | 16.78 | 16.78 | 16.78 | 16.78 | 25.68 | 25.68 | 25.68 | 25.68 | 30.55 | 30.55 | 30.55 | 30.55 | 43.64 | 43.64 | 43.64 | 43.64 |
| 221710 | 5.66 | 5.67 | 5.67 | 5.67 | 19.89 | 19.9 | 19.9 | 19.9 | 31.37 | 31.36 | 31.36 | 31.37 | 38.38 | 38.38 | 38.38 | 38.38 | 63.07 | 63.07 | 63.07 | 63.07 |
| 221720 | 12.33 | 12.35 | 12.35 | 12.35 | 36.48 | 36.51 | 36.51 | 36.51 | 45.02 | 45.02 | 45.02 | 45.02 | 46.34 | 46.34 | 46.34 | 46.34 | 65.97 | 65.97 | 65.97 | 65.97 |
| 221730 | 17.36 | 17.39 | 17.39 | 17.39 | 56.48 | 56.53 | 56.53 | 56.53 | 75.84 | 75.84 | 75.84 | 75.84 | 82.9 | 82.9 | 82.9 | 82.9 | 112.58 | 112.58 | 112.58 | 112.58 |
| 221740 | 13.8 | 13.82 | 13.82 | 13.82 | 42.52 | 42.55 | 42.55 | 42.55 | 53.67 | 53.67 | 53.67 | 53.67 | 56.45 | 56.45 | 56.45 | 56.45 | 73.94 | 73.94 | 73.94 | 73.94 |
| 221750 | 13.93 | 13.94 | 13.94 | 13.94 | 42.8 | 42.81 | 42.81 | 42.81 | 55.7 | 55.7 | 55.7 | 55.7 | 61.18 | 61.18 | 61.18 | 61.18 | 95.28 | 95.28 | 95.28 | 95.28 |
| 221760 | 5.44 | 5.44 | 5.44 | 5.44 | 15.13 | 15.13 | 15.13 | 15.13 | 15.23 | 15.23 | 15.23 | 15.23 | 15.02 | 15.02 | 15.02 | 15.02 | 14.95 | 14.95 | 14.95 | 14.95 |
| 221770 | 9.6 | 9.6 | 9.6 | 9.6 | 23.2 | 23.2 | 23.2 | 23.2 | 24.04 | 24.04 | 24.04 | 24.04 | 24.23 | 24.23 | 24.23 | 24.23 | 24.52 | 24.52 | 24.52 | 24.52 |
| 221780 | 23.43 | 23.29 | 23.29 | 23.29 | 27.41 | 27.4 | 27.4 | 27.4 | 48.58 | 48.58 | 48.58 | 48.58 | 58.78 | 58.78 | 58.78 | 58.78 | 114.72 | 114.72 | 114.72 | 114.72 |
| 221790 | 11.61 | 11.61 | 11.61 | 11.61 | 17.9 | 17.9 | 17.9 | 17.9 | 22.66 | 22.66 | 22.66 | 22.66 | 24.5 | 24.5 | 24.5 | 24.5 | 30.32 | 30.32 | 30.32 | 30.32 |
| 221800 | 0 | 0 | 0 | 0 | 1.23 | 1.23 | 1.23 | 1.23 | 1.82 | 1.82 | 1.82 | 1.82 | 2.02 | 2.02 | 2.02 | 2.02 | 2.45 | 2.45 | 2.45 | 2.45 |
| 221810 | 23.78 | 23.78 | 23.78 | 23.78 | 44.44 | 44.44 | 44.44 | 44.44 | 56.11 | 56.11 | 56.11 | 56.11 | 61.92 | 61.92 | 61.92 | 61.92 | 92.57 | 92.57 | 92.57 | 92.57 |
| 221820 | 1.86 | 1.86 | 1.86 | 1.86 | 8.58 | 8.58 | 8.58 | 8.58 | 13.31 | 13.31 | 13.31 | 13.31 | 15.8 | 15.8 | 15.8 | 15.8 | 29.76 | 29.76 | 29.76 | 29.76 |
| 221830 | 9.66 | 9.66 | 9.66 | 9.66 | 23.17 | 23.17 | 23.17 | 23.17 | 24.2 | 24.2 | 24.2 | 24.2 | 24.61 | 24.61 | 24.61 | 24.61 | 25.61 | 25.61 | 25.61 | 25.61 |
| 221840 | 10.42 | 10.42 | 10.42 | 10.42 | 34.58 | 34.58 | 34.58 | 34.58 | 50.53 | 50.53 | 50.53 | 50.53 | 58.76 | 58.76 | 58.76 | 58.76 | 105.01 | 105.01 | 105.01 | 105.01 |
| 221900 | 4.72 | 4.72 | 4.72 | 4.72 | 9.79 | 9.79 | 9.79 | 9.79 | 11.94 | 11.94 | 11.94 | 11.94 | 12.74 | 12.74 | 12.74 | 12.74 | 15.77 | 15.77 | 15.77 | 15.77 |
| 221910 | 13.31 | 13.31 | 13.31 | 13.31 | 28.82 | 28.82 | 28.82 | 28.82 | 37.68 | 37.68 | 37.68 | 37.68 | 42.09 | 42.09 | 42.09 | 42.09 | 65.25 | 65.25 | 65.25 | 65.25 |
| 221920 | 11.13 | 11.13 | 11.13 | 11.13 | 23.38 | 23.38 | 23.38 | 23.38 | 29.49 | 29.49 | 29.49 | 29.49 | 33.22 | 33.22 | 33.22 | 33.22 | 53.46 | 53.46 | 53.46 | 53.46 |
| 221930 | 3.23 | 3.23 | 3.23 | 3.23 | 5.14 | 5.14 | 5.14 | 5.14 | 6.25 | 6.25 | 6.25 | 6.25 | 7.02 | 7.02 | 7.02 | 7.02 | 11.12 | 11.12 | 11.12 | 11.12 |
| 221940 | 12.19 | 12.19 | 12.19 | 12.19 | 22.51 | 22.51 | 22.51 | 22.51 | 28.36 | 28.36 | 28.36 | 28.36 | 31.27 | 31.27 | 31.27 | 31.27 | 46.64 | 46.64 | 46.64 | 46.64 |
| 221950 | 12.17 | 12.17 | 12.17 | 12.17 | 26.22 | 26.22 | 26.22 | 26.22 | 40.1 | 40.1 | 40.1 | 40.1 | 46.88 | 46.88 | 46.88 | 46.88 | 71.14 | 71.14 | 71.14 | 71.14 |
| 221960 | 10.45 | 10.45 | 10.45 | 10.45 | 24.73 | 24.74 | 24.74 | 24.74 | 29.92 | 29.92 | 29.92 | 29.92 | 32.51 | 32.51 | 32.51 | 32.51 | 45.75 | 45.75 | 45.75 | 45.75 |
| 221970 | 10.39 | 10.4 | 10.4 | 10.4 | 15.11 | 15.11 | 15.11 | 15.11 | 18.98 | 18.98 | 18.98 | 18.98 | 20.9 | 20.9 | 20.9 | 20.9 | 31.09 | 31.09 | 31.09 | 31.09 |
| 221980 | 2.28 | 2.28 | 2.28 | 2.28 | 6.57 | 6.57 | 6.57 | 6.57 | 10.25 | 10.25 | 10.25 | 10.25 | 12.93 | 12.93 | 12.93 | 12.93 | 23.05 | 23.05 | 23.05 | 23.05 |
| 221990 | 20.15 | 20.15 | 20.15 | 20.15 | 38.32 | 38.32 | 38.32 | 38.32 | 48.57 | 48.57 | 48.57 | 48.57 | 53.67 | 53.67 | 53.67 | 53.67 | 80.55 | 80.55 | 80.55 | 80.55 |
| 222000 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.92 | 0.92 | 0.92 | 0.92 |
| 222010 | 0.42 | 0.42 | 0.42 | 0.42 | 3.46 | 3.46 | 3.46 | 3.46 | 5.76 | 5.76 | 5.76 | 5.76 | 7 | 7 | 7 | 7 | 14.13 | 14.13 | 14.13 | 14.13 |
| 222020 | 10.38 | 10.38 | 10.38 | 10.38 | 25.92 | 25.92 | 25.92 | 25.92 | 35.15 | 35.15 | 35.15 | 35.15 | 39.78 | 39.78 | 39.78 | 39.78 | 64.26 | 64.26 | 64.26 | 64.26 |
| 222030 | 10.83 | 10.84 | 10.84 | 10.84 | 13.93 | 13.94 | 13.94 | 13.94 | 13.53 | 13.53 | 13.53 | 13.53 | 13.22 | 13.22 | 13.22 | 13.22 | 16.35 | 16.35 | 16.39 | 16.39 |
| 222040 | 46.41 | 46.43 | 46.43 | 46.43 | 153.23 | 153.4 | 153.4 | 153.4 | 213.9 | 213.9 | 213.9 | 213.9 | 241.8 | 241.8 | 241.8 | 241.8 | 375.25 | 375.25 | 375.25 | 375.25 |
| 222050 | 7.85 | 7.85 | 7.85 | 7.85 | 15.32 | 15.32 | 15.32 | 15.32 | 19.54 | 19.54 | 19.54 | 19.54 | 21.64 | 21.64 | 21.64 | 21.64 | 32.66 | 32.66 | 32.66 | 32.66 |
| 222060 | 17.63 | 17.64 | 17.64 | 17.64 | 29.78 | 29.78 | 29.78 | 29.78 | 32.03 | 32.03 | 32.03 | 32.03 | 32.78 | 32.78 | 32.78 | 32.78 | 37.04 | 37.04 | 37.04 | 37.04 |
| 222070 | 17.79 | 17.79 | 17.79 | 17.79 | 30.95 | 30.95 | 30.95 | 30.95 | 36.3 | 36.3 | 36.3 | 36.3 | 38.49 | 38.49 | 38.49 | 38.49 | 49.13 | 49.13 | 49.13 | 49.13 |
| 222080 | 4.04 | 4.06 | 4.06 | 4.06 | 14.6 | 14.62 | 14.62 | 14.62 | 21.36 | 21.36 | 21.36 | 21.36 | 22.53 | 22.53 | 22.53 | 22.53 | 29.86 | 29.86 | 29.86 | 29.86 |
| 222090 | 13.84 | 13.84 | 13.84 | 13.84 | 27.02 | 27.02 | 27.02 | 27.02 | 34.45 | 34.45 | 34.45 | 34.45 | 38.15 | 38.15 | 38.15 | 38.15 | 57.59 | 57.59 | 57.59 | 57.59 |
| 222100 | 0.5 | 0.5 | 0.5 | 0.5 | 5.4 | 5.4 | 5.4 | 5.4 | 10.45 | 10.45 | 10.45 | 10.45 | 13.31 | 13.31 | 13.31 | 13.31 | 17.99 | 17.99 | 17.99 | 17.99 |
| 222110 | 4.13 | 4.13 | 4.13 | 4.13 | 11.36 | 11.36 | 11.36 | 11.36 | 15.78 | 15.78 | 15.78 | 15.78 | 18.01 | 18.01 | 18.01 | 18.01 | 29.94 | 29.94 | 29.94 | 29.94 |
| 222130 | 1 | 1 | 1 | 1 | 4.14 | 4.14 | 4.14 | 4.14 | 6.25 | 6.25 | 6.25 | 6.25 | 7.35 | 7.35 | 7.35 | 7.35 | 22.45 | 22.45 | 22.45 | 22.45 |
| 222140 | 2.35 | 2.35 | 2.35 | 2.35 | 9.39 | 9.39 | 9.39 | 9.39 | 14.09 | 14.09 | 14.09 | 14.09 | 16.54 | 16.54 | 16.54 | 16.54 | 30.07 | 30.07 | 30.07 | 30.07 |
| 222150 | 17.02 | 17.02 | 17.02 | 17.02 | 31.79 | 31.77 | 31.77 | 31.77 | 40.14 | 40.14 | 40.14 | 40.14 | 43.58 | 43.58 | 43.58 | 43.58 | 56.04 | 56.04 | 56.04 | 56.04 |
| 222160 | 41.85 | 41.85 | 41.85 | 41.85 | 81.38 | 81.38 | 81.38 | 81.38 | 103.68 | 103.68 | 103.68 | 103.68 | 114.77 | 114.77 | 114.77 | 114.77 | 173.14 | 173.14 | 173.14 | 173.14 |
| 222170 | 17.65 | 17.65 | 17.65 | 17.65 | 39.88 | 39.88 | 39.88 | 39.88 | 52.72 | 52.72 | 52.72 | 52.72 | 59.12 | 59.12 | 59.12 | 59.12 | 92.77 | 92.77 | 92.77 | 92.77 |
| 222180 | 7.37 | 7.4 | 7.4 | 7.4 | 25.57 | 25.61 | 25.61 | 25.61 | 34.37 | 34.37 | 34.37 | 34.37 | 34.12 | 34.12 | 34.12 | 34.12 | 35.63 | 35.63 | 35.63 | 35.63 |
| 222190 | 4.61 | 4.61 | 4.61 | 4.61 | 8.71 | 8.71 | 8.71 | 8.71 | 11.03 | 11.03 | 11.03 | 11.03 | 12.18 | 12.18 | 12.18 | 12.18 | 18.25 | 18.25 | 18.25 | 18.25 |
| 222200 | 17.33 | 17.38 | 17.38 | 17.38 | 39.79 | 39.93 | 39.93 | 39.93 | 57 | 57 | 57 | 57 | 68.41 | 68.41 | 68.41 | 68.41 | 100.75 | 100.75 | 100.75 | 100.75 |
| 222300 | 1.2 | 1.2 | 1.2 | 1.2 | 2.84 | 2.84 | 2.84 | 2.84 | 7.71 | 7.71 | 7.71 | 7.71 | 10.78 | 10.78 | 10.78 | 10.78 | 24.87 | 24.87 | 24.87 | 24.87 |
| 222310 | 7.61 | 7.61 | 7.61 | 7.61 | 14.61 | 14.61 | 14.61 | 14.61 | 18.55 | 18.55 | 18.55 | 18.55 | 20.51 | 20.51 | 20.51 | 20.51 | 30.85 | 30.85 | 30.85 | 30.85 |
| 222320 | 7.22 | 7.22 | 7.22 | 7.22 | 17.75 | 17.75 | 17.75 | 17.75 | 19.89 | 19.89 | 19.89 | 19.89 | 20.37 | 20.37 | 20.37 | 20.37 | 18.78 | 18.78 | 18.78 | 18.78 |
| 222330 | 7.26 | 7.26 | 7.26 | 7.26 | 20.78 | 20.78 | 20.78 | 20.78 | 29.27 | 29.27 | 29.27 | 29.27 | 33.6 | 33.6 | 33.6 | 33.6 | 56.84 | 56.84 | 56.84 | 56.84 |
| 222340 | 1.03 | 1.03 | 1.03 | 1.03 | 3.02 | 3.02 | 3.02 | 3.02 | 4.41 | 4.41 | 4.41 | 4.41 | 5.6 | 5.6 | 5.6 | 5.6 | 10.23 | 10.23 | 10.23 | 10.23 |
| 222350 | 3.56 | 3.56 | 3.56 | 3.56 | 6.49 | 6.49 | 6.49 | 6.49 | 8.15 | 8.15 | 8.15 | 8.15 | 8.98 | 8.98 | 8.98 | 8.98 | 13.36 | 13.36 | 13.36 | 13.36 |
| 222360 | 12.05 | 12.05 | 12.05 | 12.05 | 24.91 | 24.91 | 24.91 | 24.91 | 31.3 | 31.3 | 31.3 | 31.3 | 34.19 | 34.19 | 34.19 | 34.19 | 48.85 | 48.85 | 48.85 | 48.85 |
| 222370 | 7.92 | 7.92 | 7.92 | 7.92 | 15.37 | 15.37 | 15.37 | 15.37 | 17.52 | 17.52 | 17.52 | 17.52 | 18.2 | 18.2 | 18.2 | 18.2 | 26.29 | 26.29 | 26.29 | 26.29 |
| 222380 | 19.77 | 19.77 | 19.77 | 19.77 | 41.63 | 41.63 | 41.63 | 41.63 | 54.06 | 54.06 | 54.06 | 54.06 | 60.24 | 60.24 | 60.24 | 60.24 | 97.8 | 97.8 | 97.8 | 97.8 |
| 222390 | 3.87 | 3.87 | 3.87 | 3.87 | 18.25 | 18.25 | 18.25 | 18.25 | 28.17 | 28.17 | 28.17 | 28.17 | 33.4 | 33.4 | 33.4 | 33.4 | 62.62 | 62.62 | 62.62 | 62.62 |
| 222400 | 7.56</ | | | | | | | | | | | | | | | | | | | |

Summary of Flow Results at all Nodes

| Node | 2.33YR24HR | | | | 25YR24HR | | | | 50YR24HR | | | | 100YR24HR | | | | 500YR24HR | | | |
|--------|-----------------------|---------------------------------|-----------------------|-----------------------------|-----------------------|---------------------------------|-----------------------|-----------------------------|-----------------------|---------------------------------|-----------------------|-----------------------------|-----------------------|---------------------------------|-----------------------|-----------------------------|-----------------------|---------------------------------|-----------------------|-----------------------------|
| | Effective Model (cfs) | Corrected Effective Model (cfs) | Proposed Bridge (cfs) | Proposed Box Culverts (cfs) | Effective Model (cfs) | Corrected Effective Model (cfs) | Proposed Bridge (cfs) | Proposed Box Culverts (cfs) | Effective Model (cfs) | Corrected Effective Model (cfs) | Proposed Bridge (cfs) | Proposed Box Culverts (cfs) | Effective Model (cfs) | Corrected Effective Model (cfs) | Proposed Bridge (cfs) | Proposed Box Culverts (cfs) | Effective Model (cfs) | Corrected Effective Model (cfs) | Proposed Bridge (cfs) | Proposed Box Culverts (cfs) |
| 222800 | 40.29 | 40.36 | 40.36 | 40.36 | 148.38 | 148.46 | 148.46 | 148.46 | 218 | 218 | 218 | 218 | 262.11 | 262.11 | 262.11 | 262.11 | 464.78 | 464.78 | 464.78 | 464.78 |
| 222810 | 21.95 | 21.97 | 21.97 | 21.97 | 84.36 | 84.38 | 84.38 | 84.38 | 116.63 | 116.63 | 116.63 | 116.63 | 125.75 | 125.75 | 125.75 | 125.75 | 149.85 | 149.85 | 149.85 | 149.85 |
| 222820 | 8.11 | 8.11 | 8.11 | 8.11 | 58.03 | 58.05 | 58.05 | 58.05 | 87.43 | 87.43 | 87.43 | 87.43 | 93.2 | 93.2 | 93.2 | 93.2 | 107.35 | 107.35 | 107.35 | 107.35 |
| 222830 | 8.37 | 8.37 | 8.37 | 8.37 | 58.52 | 58.53 | 58.53 | 58.53 | 92.06 | 92.06 | 92.06 | 92.06 | 101.63 | 101.63 | 101.63 | 101.63 | 112.06 | 112.06 | 112.06 | 112.06 |
| 222840 | 2.64 | 2.64 | 2.64 | 2.64 | 11.89 | 11.89 | 11.89 | 11.89 | 31.69 | 31.69 | 31.69 | 31.69 | 35.36 | 35.36 | 35.36 | 35.36 | 74.56 | 74.56 | 74.56 | 74.56 |
| 222850 | 11.85 | 11.85 | 11.85 | 11.85 | 49.35 | 49.36 | 49.36 | 49.36 | 94.86 | 94.86 | 94.86 | 94.86 | 124.13 | 124.13 | 124.13 | 124.13 | 297.54 | 297.54 | 297.54 | 297.54 |
| 222860 | 20.21 | 20.21 | 20.21 | 20.21 | 57.8 | 57.8 | 57.8 | 57.8 | 86.46 | 86.46 | 86.46 | 86.46 | 107.49 | 107.49 | 107.49 | 107.49 | 212.89 | 212.89 | 212.89 | 212.89 |
| 222870 | 13.19 | 13.19 | 13.19 | 13.19 | 58.58 | 58.58 | 58.58 | 58.58 | 90.32 | 90.32 | 90.32 | 90.32 | 107.01 | 107.01 | 107.01 | 107.01 | 203.36 | 203.36 | 203.36 | 203.36 |
| 222880 | 4.02 | 4.01 | 4.01 | 4.01 | 8.98 | 8.98 | 8.98 | 8.98 | 11.2 | 11.2 | 11.2 | 11.2 | 11.45 | 11.45 | 11.45 | 11.45 | 11.26 | 11.26 | 11.26 | 11.26 |
| 222890 | 5.17 | 5.17 | 5.17 | 5.17 | 14.55 | 14.55 | 14.55 | 14.55 | 21.61 | 21.61 | 21.61 | 21.61 | 26.77 | 26.77 | 26.77 | 26.77 | 48.98 | 48.98 | 48.98 | 48.98 |
| 222900 | 10.68 | 10.68 | 10.68 | 10.68 | 50.63 | 50.63 | 50.63 | 50.63 | 78.16 | 78.16 | 78.16 | 78.16 | 92.64 | 92.64 | 92.64 | 92.64 | 173.67 | 173.67 | 173.67 | 173.67 |
| 222910 | 39.75 | 39.75 | 39.75 | 39.75 | 247.92 | 247.92 | 247.92 | 247.92 | 392.98 | 392.98 | 392.98 | 392.98 | 466.57 | 466.57 | 466.57 | 466.57 | 888.99 | 888.99 | 888.99 | 888.99 |
| 222920 | 7.93 | 7.92 | 7.92 | 7.92 | 32.88 | 32.86 | 32.86 | 32.86 | 49.58 | 49.58 | 49.58 | 49.58 | 62.82 | 62.82 | 62.82 | 62.82 | 152.13 | 152.13 | 152.13 | 152.13 |
| 222930 | 6.24 | 6.23 | 6.23 | 6.23 | 25.94 | 25.93 | 25.93 | 25.93 | 40.78 | 40.78 | 40.78 | 40.78 | 54.01 | 54.01 | 54.01 | 54.01 | 150.82 | 150.82 | 150.82 | 150.82 |
| 222940 | 3.86 | 3.86 | 3.86 | 3.86 | 16.15 | 16.15 | 16.15 | 16.15 | 24.85 | 24.85 | 24.85 | 24.85 | 29.42 | 29.42 | 29.42 | 29.42 | 55.42 | 55.42 | 55.42 | 55.42 |
| 222950 | 2.4 | 2.4 | 2.4 | 2.4 | 10.27 | 10.27 | 10.27 | 10.27 | 15.7 | 15.7 | 15.7 | 15.7 | 18.56 | 18.56 | 18.56 | 18.56 | 34.94 | 34.94 | 34.94 | 34.94 |
| 222960 | 1.34 | 1.34 | 1.34 | 1.34 | 5.84 | 5.84 | 5.84 | 5.84 | 8.9 | 8.9 | 8.9 | 8.9 | 10.49 | 10.49 | 10.49 | 10.49 | 19.38 | 19.38 | 19.38 | 19.38 |
| 222970 | 13.73 | 13.73 | 13.73 | 13.73 | 139.87 | 139.87 | 139.87 | 139.87 | 233.16 | 233.16 | 233.16 | 233.16 | 281.27 | 281.27 | 281.27 | 281.27 | 542.61 | 542.61 | 542.61 | 542.61 |
| 222980 | 4.56 | 4.56 | 4.56 | 4.56 | 31.79 | 31.79 | 31.79 | 31.79 | 55.07 | 55.07 | 55.07 | 55.07 | 67.71 | 67.71 | 67.71 | 67.71 | 141.58 | 141.58 | 141.58 | 141.58 |
| 222990 | 30.03 | 30.03 | 30.03 | 30.03 | 105.61 | 105.61 | 105.61 | 105.61 | 154.91 | 154.91 | 154.91 | 154.91 | 180.39 | 180.39 | 180.39 | 180.39 | 319.79 | 319.79 | 319.79 | 319.79 |
| 223000 | 1.88 | 1.88 | 1.88 | 1.88 | 8.2 | 8.2 | 8.2 | 8.2 | 12.49 | 12.49 | 12.49 | 12.49 | 14.73 | 14.73 | 14.73 | 14.73 | 27.22 | 27.22 | 27.22 | 27.22 |
| 223010 | 12.93 | 12.93 | 12.93 | 12.93 | 66.94 | 66.94 | 66.94 | 66.94 | 111.51 | 111.51 | 111.51 | 111.51 | 133.25 | 133.25 | 133.25 | 133.25 | 241.77 | 241.77 | 241.77 | 241.77 |
| 223020 | 11.74 | 11.74 | 11.74 | 11.74 | 33.57 | 33.57 | 33.57 | 33.57 | 47.07 | 47.07 | 47.07 | 47.07 | 53.92 | 53.92 | 53.92 | 53.92 | 90.6 | 90.6 | 90.6 | 90.6 |
| 223030 | 8.49 | 8.49 | 8.49 | 8.49 | 38.36 | 38.36 | 38.36 | 38.36 | 59.88 | 59.88 | 59.88 | 59.88 | 71.35 | 71.35 | 71.35 | 71.35 | 136.05 | 136.05 | 136.05 | 136.05 |
| 223040 | 8.09 | 8.09 | 8.09 | 8.09 | 15.77 | 15.77 | 15.77 | 15.77 | 20.1 | 20.1 | 20.1 | 20.1 | 22.26 | 22.26 | 22.26 | 22.26 | 33.58 | 33.58 | 33.58 | 33.58 |
| 223100 | 2.76 | 2.76 | 2.76 | 2.76 | 30.91 | 30.91 | 30.91 | 30.91 | 54.31 | 54.31 | 54.31 | 54.31 | 67.85 | 67.85 | 67.85 | 67.85 | 143.79 | 143.79 | 143.79 | 143.79 |
| 223110 | 0 | 0 | 0 | 0 | 1.85 | 1.86 | 1.86 | 1.86 | 5.33 | 5.33 | 5.33 | 5.33 | 7.38 | 7.38 | 7.38 | 7.38 | 22.22 | 22.22 | 22.22 | 22.22 |
| 223120 | 9.76 | 9.76 | 9.76 | 9.76 | 21.43 | 21.43 | 21.43 | 21.43 | 26.53 | 26.53 | 26.53 | 26.53 | 29.07 | 29.07 | 29.07 | 29.07 | 45.18 | 45.18 | 45.18 | 45.18 |
| 223130 | 0 | 0 | 0 | 0 | 0.19 | 0.19 | 0.19 | 0.19 | 0.78 | 0.78 | 0.78 | 0.78 | 1.05 | 1.05 | 1.05 | 1.05 | 2.36 | 2.36 | 2.36 | 2.36 |
| 223140 | 6.59 | 6.59 | 6.59 | 6.59 | 13.63 | 13.63 | 13.63 | 13.63 | 17.38 | 17.38 | 17.38 | 17.38 | 19.04 | 19.04 | 19.04 | 19.04 | 23.47 | 23.47 | 23.47 | 23.47 |
| 223150 | 2.63 | 2.63 | 2.63 | 2.63 | 5.12 | 5.12 | 5.12 | 5.12 | 6.52 | 6.52 | 6.52 | 6.52 | 7.22 | 7.22 | 7.22 | 7.22 | 10.9 | 10.9 | 10.9 | 10.9 |
| 223160 | 4.12 | 4.12 | 4.12 | 4.12 | 18.33 | 18.33 | 18.33 | 18.33 | 28.55 | 28.55 | 28.55 | 28.55 | 33.95 | 33.95 | 33.95 | 33.95 | 65.33 | 65.33 | 65.33 | 65.33 |
| 223170 | 0.23 | 0.23 | 0.23 | 0.23 | 3.52 | 3.52 | 3.52 | 3.52 | 5.21 | 5.21 | 5.21 | 5.21 | 6.2 | 6.2 | 6.2 | 6.2 | 7.95 | 7.95 | 7.95 | 7.95 |
| 223180 | 3.85 | 3.85 | 3.85 | 3.85 | 7.5 | 7.5 | 7.5 | 7.5 | 9.56 | 9.56 | 9.56 | 9.56 | 10.58 | 10.58 | 10.58 | 10.58 | 15.96 | 15.96 | 15.96 | 15.96 |
| 223200 | 6.12 | 6.12 | 6.12 | 6.12 | 46.72 | 46.74 | 46.74 | 46.74 | 73.33 | 73.33 | 73.33 | 73.33 | 85.08 | 85.08 | 85.08 | 85.08 | 100.27 | 100.27 | 100.27 | 100.27 |
| 223210 | 7.7 | 7.69 | 7.69 | 7.69 | 49.09 | 49.1 | 49.1 | 49.1 | 76.51 | 76.51 | 76.51 | 76.51 | 89.86 | 89.86 | 89.86 | 89.86 | 145.68 | 145.68 | 145.68 | 145.68 |
| 223220 | 0 | 0 | 0 | 0 | 4.35 | 4.35 | 4.35 | 4.35 | 13.37 | 13.37 | 13.37 | 13.37 | 17.93 | 17.93 | 17.93 | 17.93 | 29.91 | 29.91 | 29.91 | 29.91 |
| 223230 | 13.56 | 13.56 | 13.56 | 13.56 | 27 | 27 | 27 | 27 | 34.58 | 34.58 | 34.58 | 34.58 | 39.38 | 39.38 | 39.38 | 39.38 | 58.17 | 58.17 | 58.17 | 58.17 |
| 223240 | 15.69 | 15.44 | 15.44 | 15.44 | 54.37 | 54.36 | 54.36 | 54.36 | 62.69 | 62.69 | 62.69 | 62.69 | 64.24 | 64.24 | 64.24 | 64.24 | 71.54 | 71.54 | 71.54 | 71.54 |
| 223250 | 9.23 | 9.06 | 9.06 | 9.06 | 54.89 | 54.87 | 54.87 | 54.87 | 80.91 | 80.91 | 80.91 | 80.91 | 97.36 | 97.36 | 97.36 | 97.36 | 204.34 | 204.34 | 204.34 | 204.34 |
| 223260 | 7.97 | 7.97 | 7.97 | 7.97 | 32.38 | 32.38 | 32.38 | 32.38 | 48.64 | 48.64 | 48.64 | 48.64 | 61.18 | 61.18 | 61.18 | 61.18 | 134.72 | 134.72 | 134.72 | 134.72 |
| 223270 | 3.46 | 3.46 | 3.46 | 3.46 | 12.78 | 12.78 | 12.78 | 12.78 | 18.92 | 18.92 | 18.92 | 18.92 | 22.09 | 22.09 | 22.09 | 22.09 | 52.66 | 52.66 | 52.66 | 52.66 |
| 223280 | 3.57 | 3.57 | 3.57 | 3.57 | 16.13 | 16.12 | 16.12 | 16.12 | 24.74 | 24.74 | 24.74 | 24.74 | 29.27 | 29.27 | 29.27 | 29.27 | 54.54 | 54.54 | 54.54 | 54.54 |
| 223290 | 4.16 | 4.16 | 4.16 | 4.16 | 17.46 | 17.46 | 17.46 | 17.46 | 26.76 | 26.76 | 26.76 | 26.76 | 31.71 | 31.71 | 31.71 | 31.71 | 59.44 | 59.44 | 59.44 | 59.44 |
| 223300 | 3.55 | 3.55 | 3.55 | 3.55 | 15.2 | 15.2 | 15.2 | 15.2 | 23.38 | 23.38 | 23.38 | 23.38 | 27.69 | 27.69 | 27.69 | 27.69 | 51.81 | 51.81 | 51.81 | 51.81 |
| 223310 | 31.71 | 31.71 | 31.71 | 31.71 | 83.29 | 83.29 | 83.29 | 83.29 | 114.82 | 114.82 | 114.82 | 114.82 | 130.77 | 130.77 | 130.77 | 130.77 | 215.7 | 215.7 | 215.7 | 215.7 |
| 223320 | 3.89 | 3.89 | 3.89 | 3.89 | 9.37 | 9.38 | 9.38 | 9.38 | 33.17 | 33.17 | 33.17 | 33.17 | 46.45 | 46.45 | 46.45 | 46.45 | 138.11 | 138.11 | 138.11 | 138.11 |
| 223330 | 4.88 | 4.88 | 4.88 | 4.88 | 21.31 | 21.31 | 21.31 | 21.31 | 32.45 | 32.45 | 32.45 | 32.45 | 38.28 | 38.28 | 38.28 | 38.28 | 70.69 | 70.69 | 70.69 | 70.69 |
| 223340 | 5.7 | 5.7 | 5.7 | 5.7 | 24.82 | 24.82 | 24.82 | 24.82 | 37.79 | 37.79 | 37.79 | 37.79 | 44.58 | 44.58 | 44.58 | 44.58 | 82.31 | 82.31 | 82.31 | 82.31 |
| 223350 | 77.5 | 77.5 | 77.5 | 77.5 | 204.34 | 204.34 | 204.34 | 204.34 | 282.1 | 282.1 | 282.1 | 282.1 | 321.42 | 321.42 | 321.42 | 321.42 | 530.92 | 530.92 | 530.92 | 530.92 |
| 223358 | 4.13 | 4.13 | 4.13 | 4.13 | 9.3 | 9.3 | 9.3 | 9.3 | 12.18 | 12.18 | 12.18 | 12.18 | 13.59 | 13.59 | 13.59 | 13.59 | 20.39 | 20.39 | 20.39 | 20.39 |
| 223360 | 233.63 | 233.63 | 233.63 | 233.63 | 233.63 | 233.63 | 233.63 | 233.63 | 233.63 | 233.63 | 233.63 | 233.63 | 233.63 | 233.63 | 233.63 | 233.63 | 233.63 | 233.63 | 233.63 | 233.63 |
| 223400 | 2.29 | 2.29 | 2.29 | 2.29 | 9.97 | 9.97 | 9.97 | 9.97 | 15.19 | 15.19 | 15.19 | 15.19 | 17.91 | 17.91 | 17.91 | 17.91 | 33.09 | 33.09 | 33.09 | 33.09 |
| 223410 | 36.38 | 36.38 | 36.38 | 36.38 | 98.87 | 98.87 | 98.87 | 98.87 | 137.87 | 137.87 | 137.87 | 137.87 | 158.03 | 158.03 | 158.03 | 158.03 | 266.11 | 266.11 | 266.11 | 266.11 |
| 223420 | 34.71 | 34.71 | 34.71 | 34.71 | 84.72 | 84.72 | 84.72 | 84.72 | 114.26 | 114.26 | 114.26 | 114.26 | 129.07 | 129.07 | 129.07 | 129.07 | 244.46 | 244.46 | 244.46 | 244.46 |
| 223430 | 13.06 | 13.06 | 13.06 | 13.06 | 37.65 | 37.65 | 37.65 | 37.65 | 52.91 | 52.91 | 52.91 | 52.91 | 60.67 | 60.67 | 60.67 | 60.67 | 102.33 | 102.33 | | |

Summary of Flow Results at all Nodes

| Node | 2.33YR24HR | | | | 25YR24HR | | | | 50YR24HR | | | | 100YR24HR | | | | 500YR24HR | | | |
|--------|-----------------------|---------------------------------|-----------------------|-----------------------------|-----------------------|---------------------------------|-----------------------|-----------------------------|-----------------------|---------------------------------|-----------------------|-----------------------------|-----------------------|---------------------------------|-----------------------|-----------------------------|-----------------------|---------------------------------|-----------------------|-----------------------------|
| | Effective Model (cfs) | Corrected Effective Model (cfs) | Proposed Bridge (cfs) | Proposed Box Culverts (cfs) | Effective Model (cfs) | Corrected Effective Model (cfs) | Proposed Bridge (cfs) | Proposed Box Culverts (cfs) | Effective Model (cfs) | Corrected Effective Model (cfs) | Proposed Bridge (cfs) | Proposed Box Culverts (cfs) | Effective Model (cfs) | Corrected Effective Model (cfs) | Proposed Bridge (cfs) | Proposed Box Culverts (cfs) | Effective Model (cfs) | Corrected Effective Model (cfs) | Proposed Bridge (cfs) | Proposed Box Culverts (cfs) |
| 240020 | 199.07 | 199.14 | 199.14 | 199.14 | 480.67 | 480.81 | 480.81 | 480.81 | 618.62 | 618.62 | 618.62 | 618.62 | 663.78 | 663.81 | 663.83 | 663.81 | 837.02 | 837.03 | 837.03 | 837.03 |
| 240030 | 199.04 | 199.12 | 199.12 | 199.12 | 480.68 | 480.83 | 480.83 | 480.83 | 618.62 | 618.62 | 618.63 | 618.62 | 663.78 | 663.81 | 663.83 | 663.8 | 837 | 837.02 | 837.02 | 837.01 |
| 240040 | 198.97 | 199.05 | 199.05 | 199.05 | 482.23 | 482.37 | 482.37 | 482.37 | 620 | 620 | 620.01 | 620 | 664.23 | 664.26 | 664.27 | 664.25 | 839.83 | 839.85 | 839.85 | 839.85 |
| 240050 | 193.1 | 193.17 | 193.17 | 193.17 | 416.74 | 416.86 | 416.86 | 416.86 | 526.48 | 526.47 | 526.47 | 526.48 | 556.87 | 556.87 | 556.88 | 556.87 | 664.36 | 664.36 | 664.36 | 664.35 |
| 240060 | 193.1 | 193.17 | 193.17 | 193.17 | 416.77 | 416.89 | 416.89 | 416.89 | 527.52 | 527.51 | 527.51 | 527.51 | 563.34 | 563.34 | 563.35 | 563.34 | 681.87 | 681.57 | 682.87 | 683.83 |
| 240070 | 188.88 | 188.96 | 188.96 | 188.96 | 411.55 | 411.66 | 411.66 | 411.66 | 527.24 | 527.23 | 527.23 | 527.24 | 567.08 | 567.08 | 567.08 | 567.07 | 695.77 | 695.76 | 695.77 | 695.75 |
| 240080 | 214 | 214.09 | 214.09 | 214.09 | 459.75 | 459.89 | 459.89 | 459.89 | 592.03 | 592.02 | 592.02 | 592.03 | 646.31 | 646.31 | 646.32 | 646.31 | 925.05 | 925.06 | 925.06 | 925.06 |
| 240090 | 215.76 | 215.85 | 215.85 | 215.85 | 471.49 | 471.64 | 471.64 | 471.64 | 610.82 | 610.82 | 610.81 | 610.82 | 671.2 | 671.2 | 671.2 | 671.2 | 953.2 | 953.21 | 953.21 | 953.21 |
| 240100 | 216.61 | 216.7 | 216.7 | 216.7 | 489.37 | 489.54 | 489.54 | 489.54 | 663.85 | 663.85 | 663.85 | 663.85 | 747.94 | 747.94 | 747.95 | 747.94 | 1106.84 | 1106.84 | 1106.84 | 1106.84 |
| 240110 | 176.87 | 176.95 | 176.95 | 176.95 | 343.79 | 343.86 | 343.86 | 343.86 | 413.88 | 413.88 | 413.88 | 413.88 | 445.94 | 445.94 | 445.94 | 445.94 | 595.84 | 595.84 | 595.84 | 595.84 |
| 240120 | 177.67 | 177.75 | 177.75 | 177.75 | 347.57 | 347.63 | 347.63 | 347.63 | 418.11 | 418.11 | 418.11 | 418.11 | 450.46 | 450.46 | 450.46 | 450.46 | 601.82 | 601.82 | 601.82 | 601.82 |
| 240130 | 171.88 | 171.95 | 171.95 | 171.95 | 339.28 | 339.36 | 339.36 | 339.36 | 408.34 | 408.34 | 408.34 | 408.34 | 438.92 | 438.92 | 438.92 | 438.92 | 576.43 | 576.43 | 576.43 | 576.43 |
| 240140 | 157.17 | 157.24 | 157.24 | 157.24 | 307.2 | 307.25 | 307.25 | 307.25 | 362.1 | 362.1 | 362.1 | 362.1 | 386.6 | 386.6 | 386.6 | 386.6 | 494.05 | 494.05 | 494.05 | 494.05 |
| 240150 | 140.3 | 140.38 | 140.38 | 140.38 | 252.26 | 252.31 | 252.31 | 252.31 | 294.91 | 294.91 | 294.91 | 294.92 | 312.51 | 312.52 | 312.53 | 312.52 | 381.42 | 381.42 | 381.42 | 381.42 |
| 240160 | 140.31 | 140.38 | 140.38 | 140.38 | 252.34 | 252.39 | 252.39 | 252.39 | 295 | 295 | 294.99 | 295 | 312.6 | 312.6 | 312.61 | 312.6 | 381.53 | 381.53 | 381.53 | 381.53 |
| 240170 | 133.56 | 133.63 | 133.63 | 133.63 | 236.42 | 236.47 | 236.47 | 236.47 | 274.2 | 274.2 | 274.19 | 274.21 | 289.03 | 289.03 | 289.05 | 289.04 | 343.88 | 343.88 | 343.88 | 343.88 |
| 240180 | 133.19 | 133.26 | 133.26 | 133.26 | 235.58 | 235.63 | 235.63 | 235.63 | 273.1 | 273.1 | 273.09 | 273.1 | 287.77 | 287.78 | 287.8 | 287.78 | 342.25 | 342.25 | 342.25 | 342.25 |
| 240190 | 116.28 | 116.32 | 116.32 | 116.32 | 191.37 | 191.43 | 191.43 | 191.43 | 237.78 | 237.78 | 237.78 | 237.78 | 259.7 | 259.7 | 259.7 | 259.7 | 350.9 | 350.9 | 350.91 | 350.91 |
| 240200 | 78.18 | 78.21 | 78.2 | 78.2 | 146.62 | 146.64 | 146.64 | 146.64 | 166.92 | 166.9 | 166.9 | 166.91 | 174.25 | 174.26 | 174.27 | 174.27 | 220.6 | 220.6 | 220.61 | 220.61 |
| 240210 | 76.94 | 76.97 | 76.96 | 76.96 | 144.37 | 144.39 | 144.39 | 144.39 | 163.61 | 163.6 | 163.6 | 163.61 | 171.1 | 171.11 | 171.12 | 171.11 | 216.7 | 216.7 | 216.7 | 216.7 |
| 240220 | 77 | 77.03 | 77.03 | 77.03 | 144.39 | 144.41 | 144.41 | 144.41 | 163.63 | 163.61 | 163.61 | 163.62 | 171.11 | 171.12 | 171.13 | 171.12 | 216.72 | 216.72 | 216.72 | 216.72 |
| 240230 | 77.1 | 77.13 | 77.13 | 77.13 | 144.42 | 144.43 | 144.43 | 144.43 | 163.66 | 163.64 | 163.65 | 163.66 | 171.12 | 171.13 | 171.14 | 171.13 | 216.74 | 216.74 | 216.74 | 216.74 |
| 240240 | 74.16 | 74.18 | 74.18 | 74.18 | 141.59 | 141.6 | 141.6 | 141.6 | 159.46 | 159.45 | 159.45 | 159.46 | 168.04 | 168.05 | 168.06 | 168.06 | 214.25 | 214.25 | 214.25 | 214.25 |
| 240250 | 74.13 | 74.15 | 74.15 | 74.15 | 141.22 | 141.23 | 141.23 | 141.23 | 158.97 | 158.95 | 158.96 | 158.96 | 167.53 | 167.54 | 167.56 | 167.55 | 213.52 | 213.52 | 213.52 | 213.52 |
| 240260 | 74.11 | 74.13 | 74.13 | 74.13 | 141.2 | 141.22 | 141.22 | 141.22 | 158.95 | 158.94 | 158.94 | 158.95 | 167.53 | 167.54 | 167.55 | 167.55 | 213.57 | 213.57 | 213.57 | 213.57 |
| 240270 | 74.11 | 74.12 | 74.12 | 74.12 | 141 | 141.02 | 141.02 | 141.02 | 158.69 | 158.67 | 158.67 | 158.68 | 167.27 | 167.28 | 167.29 | 167.29 | 213.19 | 213.19 | 213.19 | 213.19 |
| 240280 | 89.51 | 89.55 | 89.55 | 89.55 | 141 | 141.02 | 141.02 | 141.02 | 158.67 | 158.65 | 158.66 | 158.66 | 167.27 | 167.28 | 167.3 | 167.29 | 213.25 | 213.25 | 213.25 | 213.25 |
| 240290 | 89.53 | 89.57 | 89.57 | 89.57 | 125.38 | 125.39 | 125.39 | 125.39 | 130.81 | 130.78 | 130.78 | 130.81 | 134.97 | 135 | 135.03 | 135.01 | 160.87 | 160.86 | 160.86 | 160.87 |
| 240300 | 16.99 | 16.98 | 16.98 | 16.98 | 30.97 | 30.97 | 30.97 | 30.97 | 37.74 | 37.74 | 37.74 | 37.74 | 42.7 | 42.7 | 42.71 | 42.7 | 66.7 | 66.7 | 66.7 | 66.7 |
| 240310 | 13.91 | 13.91 | 13.91 | 13.91 | 27.85 | 27.85 | 27.85 | 27.85 | 33.57 | 33.57 | 33.57 | 33.57 | 36.95 | 36.95 | 36.95 | 36.95 | 57.31 | 57.31 | 57.31 | 57.31 |
| 240320 | 13.62 | 13.62 | 13.62 | 13.62 | 27.16 | 27.16 | 27.16 | 27.16 | 32.46 | 32.46 | 32.46 | 32.46 | 35.65 | 35.65 | 35.65 | 35.65 | 59.91 | 59.91 | 59.91 | 59.91 |
| 240330 | 10.7 | 10.7 | 10.7 | 10.7 | 23.39 | 23.39 | 23.39 | 23.39 | 26.92 | 26.92 | 26.92 | 26.92 | 28.18 | 28.18 | 28.18 | 28.18 | 32.04 | 32.04 | 32.04 | 32.04 |
| 240340 | 10.81 | 10.81 | 10.81 | 10.81 | 24.11 | 24.11 | 24.11 | 24.11 | 28.33 | 28.33 | 28.33 | 28.33 | 29.67 | 29.67 | 29.67 | 29.67 | 32.85 | 32.85 | 32.85 | 32.85 |
| 240350 | 11.17 | 11.17 | 11.17 | 11.17 | 27.72 | 27.72 | 27.72 | 27.72 | 34.35 | 34.35 | 34.35 | 34.35 | 37.21 | 37.21 | 37.21 | 37.21 | 56.77 | 56.77 | 56.77 | 56.77 |
| 240360 | 28.09 | 28.09 | 28.09 | 28.09 | 65.24 | 65.24 | 65.24 | 65.24 | 87.04 | 87.04 | 87.04 | 87.04 | 97.95 | 97.95 | 97.95 | 97.95 | 157.07 | 157.07 | 157.07 | 157.07 |
| 240370 | 0 | 0 | 0 | 0 | 0.64 | 0.64 | 0.64 | 0.64 | 1.58 | 1.58 | 1.58 | 1.58 | 2.18 | 2.18 | 2.18 | 2.18 | 6.46 | 6.46 | 6.46 | 6.46 |
| 240380 | 0 | 0 | 0 | 0 | 0.7 | 0.7 | 0.7 | 0.7 | 1.64 | 1.64 | 1.64 | 1.64 | 2.29 | 2.29 | 2.29 | 2.29 | 6.8 | 6.8 | 6.8 | 6.8 |
| 240390 | 9.66 | 9.66 | 9.66 | 9.66 | 19.02 | 19.02 | 19.02 | 19.02 | 24.3 | 24.3 | 24.3 | 24.3 | 26.93 | 26.93 | 26.93 | 26.93 | 40.73 | 40.73 | 40.73 | 40.73 |
| 240400 | 27.84 | 27.84 | 27.84 | 27.84 | 50.25 | 50.25 | 50.25 | 50.25 | 62.99 | 62.99 | 62.99 | 62.99 | 69.65 | 69.65 | 69.65 | 69.65 | 108.99 | 108.99 | 108.99 | 108.99 |
| 240410 | 14.5 | 14.5 | 14.5 | 14.5 | 27.67 | 27.67 | 27.67 | 27.67 | 35.11 | 35.11 | 35.11 | 35.11 | 38.81 | 38.81 | 38.81 | 38.81 | 58.32 | 58.32 | 58.32 | 58.32 |
| 240430 | 28.84 | 28.84 | 28.84 | 28.84 | 54.29 | 54.29 | 54.29 | 54.29 | 68.66 | 68.66 | 68.66 | 68.66 | 75.82 | 75.82 | 75.82 | 75.82 | 113.54 | 113.54 | 113.54 | 113.54 |
| 240440 | 0 | 0 | 0 | 0 | 0.89 | 0.89 | 0.89 | 0.89 | 1.39 | 1.39 | 1.39 | 1.39 | 1.61 | 1.61 | 1.61 | 1.61 | 6.03 | 6.02 | 6.03 | 6.02 |
| 240450 | 23.13 | 23.13 | 23.13 | 23.13 | 44.14 | 44.14 | 44.14 | 44.14 | 55.99 | 55.99 | 55.99 | 55.99 | 61.88 | 61.88 | 61.88 | 61.88 | 92.94 | 92.94 | 92.94 | 92.94 |
| 240460 | 100.18 | 100.31 | 100.31 | 100.31 | 294.2 | 294.32 | 294.32 | 294.32 | 392.98 | 392.98 | 392.98 | 392.98 | 447.95 | 447.95 | 447.95 | 447.95 | 685.46 | 685.46 | 685.46 | 685.46 |
| 240470 | 3.6 | 3.6 | 3.6 | 3.6 | 6.83 | 6.83 | 6.83 | 6.83 | 14.88 | 14.88 | 14.88 | 14.88 | 26.24 | 26.24 | 26.24 | 26.24 | 49.95 | 49.95 | 49.95 | 49.95 |
| 240480 | 15.52 | 15.52 | 15.52 | 15.52 | 30.64 | 30.64 | 30.64 | 30.64 | 34.49 | 34.49 | 34.49 | 34.49 | 36.25 | 36.25 | 36.25 | 36.25 | 43 | 43 | 43 | 43 |
| 240490 | 24.71 | 24.71 | 24.71 | 24.71 | 46.87 | 46.87 | 46.87 | 46.87 | 59.37 | 59.37 | 59.37 | 59.37 | 65.59 | 65.59 | 65.59 | 65.59 | 98.37 | 98.37 | 98.37 | 98.37 |
| 240500 | 31.18 | 31.18 | 31.18 | 31.18 | 68.14 | 68.14 | 68.14 | 68.14 | 89.59 | 89.59 | 89.59 | 89.59 | 100.29 | 100.29 | 100.29 | 100.29 | 202.06 | 202.06 | 202.06 | 202.06 |
| 240510 | 32.75 | 32.75 | 32.75 | 32.75 | 71.67 | 71.67 | 71.67 | 71.67 | 93.87 | 93.87 | 93.87 | 93.87 | 105.23 | 105.23 | 105.23 | 105.23 | 165.76 | 165.76 | 165.76 | 165.76 |
| 240520 | 4.43 | 4.43 | 4.43 | 4.43 | 9.64 | 9.64 | 9.64 | 9.64 | 12.62 | 12.62 | 12.62 | 12.62 | 14.11 | 14.11 | 14.11 | 14.11 | 21.9 | 21.9 | 21.9 | 21.9 |
| 240530 | 30.36 | 30.36 | 30.36 | 30.36 | 70.74 | 70.74 | 70.74 | 70.74 | 93.08 | 93.08 | 93.08 | 93.08 | 103.96 | 103.96 | 103.96 | 103.96 | 158.86 | 158.86 | 158.86 | 158.86 |
| 240540 | 5.9 | 5.9 | 5.9 | 5.9 | 15.99 | 16 | 16 | 16 | 23.36 | 23.36 | 23.36 | 23.36 | 26.55 | 26.55 | 26.55 | 26.55 | 35.42 | 35.42 | 35.42 | 35.42 |
| 240550 | 34.72 | 34.72 | 34.72 | 34.72 | 59.41 | 59.41 | 59.41 | 59.41 | 73.26 | 73.26 | 73.26 | 73.26 | 80.16 | 80.16 | 80.16 | 80.16 | 116.11 | 116.11 | 116.11 | 116.11 |
| 240560 | 12.88 | 12.88 | 12.88 | 12.88 | 26.46 | 26.46 | 26.46 | 26.46 | 34.14 | 34.14 | 34.14 | 34.14 | 37.97 | 37.97 | 37.97 | 37.97 | 58 | | | |

Summary of Flow Results at all Nodes

| Node | 2.33YR24HR | | | | 25YR24HR | | | | 50YR24HR | | | | 100YR24HR | | | | 500YR24HR | | | |
|--------|-----------------------|---------------------------------|-----------------------|-----------------------------|-----------------------|---------------------------------|-----------------------|-----------------------------|-----------------------|---------------------------------|-----------------------|-----------------------------|-----------------------|---------------------------------|-----------------------|-----------------------------|-----------------------|---------------------------------|-----------------------|-----------------------------|
| | Effective Model (cfs) | Corrected Effective Model (cfs) | Proposed Bridge (cfs) | Proposed Box Culverts (cfs) | Effective Model (cfs) | Corrected Effective Model (cfs) | Proposed Bridge (cfs) | Proposed Box Culverts (cfs) | Effective Model (cfs) | Corrected Effective Model (cfs) | Proposed Bridge (cfs) | Proposed Box Culverts (cfs) | Effective Model (cfs) | Corrected Effective Model (cfs) | Proposed Bridge (cfs) | Proposed Box Culverts (cfs) | Effective Model (cfs) | Corrected Effective Model (cfs) | Proposed Bridge (cfs) | Proposed Box Culverts (cfs) |
| 241130 | 6.56 | 6.56 | 6.56 | 6.56 | 8.51 | 8.51 | 8.51 | 8.51 | 9.44 | 9.44 | 9.44 | 9.44 | 9.91 | 9.91 | 9.91 | 9.91 | 11.7 | 11.7 | 11.7 | 11.7 |
| 241140 | 18.16 | 18.16 | 18.16 | 18.16 | 33.47 | 33.47 | 33.47 | 33.47 | 42.05 | 42.05 | 42.05 | 42.05 | 46.41 | 46.41 | 46.41 | 46.41 | 70.62 | 70.62 | 70.62 | 70.62 |
| 241150 | 1.8 | 1.8 | 1.8 | 1.8 | 2.66 | 2.66 | 2.66 | 2.66 | 2.91 | 2.91 | 2.91 | 2.91 | 3.1 | 3.1 | 3.1 | 3.1 | 7.01 | 7.01 | 7.01 | 7.01 |
| 241160 | 15.36 | 15.36 | 15.36 | 15.36 | 27.89 | 27.89 | 27.89 | 27.89 | 35 | 35 | 35 | 35 | 38.55 | 38.55 | 38.55 | 38.55 | 57.32 | 57.32 | 57.32 | 57.32 |
| 241170 | 17.93 | 17.93 | 17.93 | 17.93 | 17.93 | 17.93 | 17.93 | 17.93 | 30.47 | 30.45 | 30.45 | 30.46 | 35.1 | 35.11 | 35.12 | 35.12 | 50.65 | 50.65 | 50.65 | 50.65 |
| 241180 | 87.27 | 87.27 | 87.27 | 87.27 | 158.44 | 158.44 | 158.44 | 158.44 | 192.78 | 192.78 | 192.78 | 192.78 | 209.6 | 209.6 | 209.6 | 209.6 | 294.52 | 294.52 | 294.52 | 294.52 |
| 241190 | 30.98 | 30.98 | 30.98 | 30.98 | 41.72 | 41.72 | 41.72 | 41.72 | 44.5 | 44.5 | 44.5 | 44.5 | 45.08 | 45.08 | 45.08 | 45.08 | 45.35 | 45.35 | 45.35 | 45.35 |
| 241200 | 38.81 | 38.81 | 38.81 | 38.81 | 73.99 | 73.99 | 73.99 | 73.99 | 93.83 | 93.83 | 93.83 | 93.83 | 103.71 | 103.71 | 103.71 | 103.71 | 155.74 | 155.74 | 155.74 | 155.74 |
| 241210 | 35.84 | 35.84 | 35.84 | 35.84 | 74.05 | 74.05 | 74.05 | 74.05 | 95.72 | 95.72 | 95.72 | 95.72 | 106.5 | 106.5 | 106.5 | 106.5 | 163.1 | 163.1 | 163.1 | 163.1 |
| 241220 | 63.4 | 63.43 | 63.43 | 63.43 | 141.46 | 141.54 | 141.54 | 141.54 | 182.27 | 182.27 | 182.27 | 182.27 | 200.84 | 200.84 | 200.84 | 200.84 | 338.78 | 338.78 | 338.78 | 338.78 |
| 241230 | 24.17 | 24.19 | 24.19 | 24.19 | 64.99 | 65.06 | 65.06 | 65.06 | 85.5 | 85.5 | 85.5 | 85.5 | 93.99 | 93.99 | 93.99 | 93.99 | 137.26 | 137.26 | 137.26 | 137.26 |
| 241240 | 35.99 | 35.99 | 35.99 | 35.99 | 73.22 | 73.28 | 73.28 | 73.28 | 98.5 | 98.5 | 98.5 | 98.5 | 109.55 | 109.55 | 109.55 | 109.55 | 172.9 | 172.9 | 172.9 | 172.9 |
| 241250 | 10.36 | 10.6 | 10.6 | 10.6 | 21.28 | 21.31 | 21.31 | 21.31 | 20.91 | 20.91 | 20.91 | 20.91 | 19.79 | 19.79 | 19.79 | 19.79 | 21.35 | 21.35 | 21.35 | 21.35 |
| 241260 | 5.84 | 5.85 | 5.85 | 5.85 | 7.93 | 7.9 | 7.9 | 7.9 | 14.65 | 14.65 | 14.65 | 14.65 | 16.19 | 16.19 | 16.19 | 16.19 | 12.78 | 12.78 | 12.78 | 12.78 |
| 241270 | 38.86 | 38.86 | 38.86 | 38.86 | 71.46 | 71.46 | 71.46 | 71.46 | 88.97 | 88.97 | 88.97 | 88.97 | 96.02 | 96.02 | 96.02 | 96.02 | 124.25 | 124.25 | 124.25 | 124.25 |
| 241300 | 516.48 | 517.3 | 494.28 | 494.28 | 750.95 | 824.6 | 726.06 | 756.16 | 783.18 | 780.84 | 785.22 | 756.96 | 781.03 | 891.24 | 789.02 | 776.74 | 517.93 | 517.93 | 477.51 | 477.51 |
| 241310 | 139.85 | 139.93 | 139.93 | 139.93 | 251.09 | 251.14 | 251.14 | 251.14 | 305.98 | 305.98 | 305.98 | 305.98 | 328.72 | 328.72 | 328.72 | 328.72 | 406.13 | 406.13 | 406.12 | 406.12 |
| 241320 | 118.42 | 118.48 | 118.48 | 118.48 | 193.88 | 193.88 | 193.88 | 193.88 | 211.45 | 211.58 | 211.43 | 211.54 | 218 | 217.88 | 217.91 | 217.88 | 240.78 | 240.78 | 240.77 | 240.77 |
| 241330 | 80.24 | 80.28 | 80.28 | 80.28 | 120.9 | 120.92 | 120.92 | 120.92 | 148.08 | 148.13 | 148.08 | 148.12 | 158.84 | 158.81 | 158.83 | 158.81 | 205.71 | 205.71 | 205.71 | 205.71 |
| 241340 | 74.66 | 74.73 | 74.73 | 74.73 | 121.58 | 121.63 | 121.63 | 121.63 | 139.64 | 139.64 | 139.64 | 139.64 | 146.03 | 146.03 | 146.03 | 146.03 | 178.98 | 178.98 | 178.98 | 178.98 |
| 241350 | 27.39 | 27.42 | 27.42 | 27.42 | 52.82 | 52.83 | 52.83 | 52.83 | 64.14 | 64.14 | 64.14 | 64.14 | 69.85 | 69.85 | 69.85 | 69.85 | 90.7 | 90.7 | 90.7 | 90.7 |
| 241360 | 26.52 | 26.55 | 26.55 | 26.55 | 54.83 | 54.85 | 54.85 | 54.85 | 64.36 | 64.36 | 64.36 | 64.36 | 68.64 | 68.64 | 68.64 | 68.64 | 89.61 | 89.61 | 89.61 | 89.61 |
| 241370 | 42.55 | 42.53 | 42.53 | 42.53 | 105.24 | 105.27 | 105.27 | 105.27 | 139.16 | 139.16 | 139.16 | 139.16 | 155.76 | 155.76 | 155.76 | 155.76 | 245.26 | 245.26 | 245.26 | 245.26 |
| 241380 | 19.88 | 19.92 | 19.92 | 19.92 | 23.64 | 23.67 | 23.67 | 23.67 | 26.27 | 26.27 | 26.27 | 26.27 | 27.27 | 27.27 | 27.27 | 27.27 | 31.06 | 31.06 | 31.06 | 31.06 |
| 241390 | 13.23 | 13.27 | 13.27 | 13.27 | 24.55 | 24.6 | 24.6 | 24.6 | 27.94 | 27.94 | 27.94 | 27.94 | 29.02 | 29.02 | 29.02 | 29.02 | 30.86 | 30.86 | 30.86 | 30.86 |
| 241400 | 17.03 | 17.05 | 17.05 | 17.05 | 37.45 | 37.57 | 37.57 | 37.57 | 49.02 | 49.02 | 49.02 | 49.02 | 54.48 | 54.48 | 54.48 | 54.48 | 73.19 | 73.19 | 73.19 | 73.19 |
| 241410 | 13.76 | 13.8 | 13.8 | 13.8 | 30.73 | 30.75 | 30.75 | 30.75 | 32.54 | 32.54 | 32.54 | 32.54 | 33.62 | 33.62 | 33.62 | 33.62 | 39.09 | 39.09 | 39.09 | 39.09 |
| 241420 | 14.14 | 14.15 | 14.15 | 14.15 | 32.69 | 32.72 | 32.72 | 32.72 | 39.67 | 39.67 | 39.67 | 39.67 | 44.64 | 44.64 | 44.64 | 44.64 | 76.81 | 76.81 | 76.81 | 76.81 |
| 241430 | 9.06 | 9.06 | 9.06 | 9.06 | 18.8 | 18.85 | 18.85 | 18.85 | 20.63 | 20.63 | 20.63 | 20.63 | 20.78 | 20.78 | 20.78 | 20.78 | 21.27 | 21.27 | 21.27 | 21.27 |
| 241440 | 9.07 | 9.07 | 9.07 | 9.07 | 21.01 | 21.01 | 21.01 | 21.01 | 25.58 | 25.58 | 25.58 | 25.58 | 28.08 | 28.08 | 28.08 | 28.08 | 49.52 | 49.52 | 49.52 | 49.52 |
| 241450 | 2.71 | 2.71 | 2.71 | 2.71 | 3.52 | 3.52 | 3.52 | 3.52 | 5.59 | 5.59 | 5.59 | 5.59 | 6.73 | 6.73 | 6.73 | 6.73 | 10.95 | 10.95 | 10.95 | 10.95 |
| 241460 | 2.75 | 2.75 | 2.75 | 2.75 | 3.54 | 3.54 | 3.54 | 3.54 | 5.68 | 5.68 | 5.68 | 5.68 | 7.24 | 7.24 | 7.24 | 7.24 | 14.88 | 14.88 | 14.88 | 14.88 |
| 241470 | 11.86 | 11.86 | 11.86 | 11.86 | 21.88 | 21.88 | 21.88 | 21.88 | 27.54 | 27.54 | 27.54 | 27.54 | 30.37 | 30.37 | 30.37 | 30.37 | 45.28 | 45.28 | 45.28 | 45.28 |
| 241500 | 415.85 | 416.49 | 381.23 | 381.23 | 882.03 | 884.82 | 707.15 | 887.24 | 861.54 | 866.25 | 854.92 | 866.47 | 876.24 | 1006.94 | 883.89 | 884.69 | 448.5 | 448.5 | 474.83 | 474.83 |
| 241510 | 2.97 | 2.97 | 2.97 | 2.97 | 22.35 | 22.35 | 22.35 | 22.35 | 34.27 | 34.27 | 34.27 | 34.27 | 40.15 | 40.15 | 40.15 | 40.15 | 54.76 | 54.76 | 54.75 | 54.75 |
| 241520 | 31.59 | 31.59 | 31.59 | 31.59 | 61.77 | 61.77 | 61.77 | 61.77 | 78.79 | 78.79 | 78.79 | 78.79 | 87.26 | 87.26 | 87.26 | 87.26 | 131.78 | 131.78 | 131.78 | 131.78 |
| 241530 | 10.74 | 10.74 | 10.74 | 10.74 | 20.52 | 20.52 | 20.52 | 20.52 | 27.17 | 27.17 | 27.17 | 27.17 | 30.48 | 30.48 | 30.48 | 30.48 | 37.41 | 37.41 | 37.41 | 37.41 |
| 241540 | 13.38 | 13.38 | 13.38 | 13.38 | 26.44 | 26.44 | 26.44 | 26.44 | 33.85 | 33.85 | 33.85 | 33.85 | 37.54 | 37.54 | 37.54 | 37.54 | 56.93 | 56.93 | 56.93 | 56.93 |
| 241550 | 37.48 | 37.49 | 37.49 | 37.49 | 66.74 | 66.74 | 66.74 | 66.74 | 79.53 | 79.53 | 79.53 | 79.53 | 84.56 | 84.56 | 84.56 | 84.56 | 94.6 | 94.6 | 94.6 | 94.6 |
| 241560 | 32.97 | 32.98 | 32.98 | 32.98 | 53.22 | 53.22 | 53.22 | 53.22 | 60.66 | 60.66 | 60.66 | 60.66 | 63.47 | 63.47 | 63.47 | 63.47 | 66.6 | 66.6 | 66.6 | 66.6 |
| 241570 | 20.39 | 20.39 | 20.39 | 20.39 | 42.38 | 42.38 | 42.38 | 42.38 | 54.75 | 54.75 | 54.75 | 54.75 | 60.81 | 60.81 | 60.81 | 60.81 | 93.33 | 93.33 | 93.33 | 93.33 |
| 241580 | 10.69 | 10.69 | 10.69 | 10.69 | 19.52 | 19.52 | 19.52 | 19.52 | 24.52 | 24.52 | 24.52 | 24.52 | 27.02 | 27.02 | 27.02 | 27.02 | 40.22 | 40.22 | 40.22 | 40.22 |
| 241590 | 13.03 | 13.03 | 13.03 | 13.03 | 25.35 | 25.35 | 25.35 | 25.35 | 32.29 | 32.29 | 32.29 | 32.29 | 35.74 | 35.74 | 35.74 | 35.74 | 53.91 | 53.91 | 53.91 | 53.91 |
| 241600 | 6.35 | 6.37 | 6.37 | 6.37 | 16.82 | 16.88 | 16.88 | 16.88 | 24.36 | 24.36 | 24.36 | 24.36 | 24.7 | 24.7 | 24.7 | 24.7 | 27.74 | 27.74 | 27.74 | 27.74 |
| 241610 | 9.92 | 9.92 | 9.92 | 9.92 | 27.02 | 27.05 | 27.05 | 27.05 | 36.04 | 36.04 | 36.04 | 36.04 | 40.35 | 40.35 | 40.35 | 40.35 | 64.2 | 64.2 | 64.2 | 64.2 |
| 241620 | 3.33 | 3.3 | 3.3 | 3.3 | 9.22 | 9.26 | 9.26 | 9.26 | 14.02 | 14.02 | 14.02 | 14.02 | 16.56 | 16.56 | 16.56 | 16.56 | 27.32 | 27.32 | 27.32 | 27.32 |
| 241630 | 1.59 | 1.57 | 1.57 | 1.57 | 1.87 | 1.88 | 1.88 | 1.88 | 2.21 | 2.21 | 2.21 | 2.21 | 2.49 | 2.49 | 2.49 | 2.49 | 3.08 | 3.08 | 3.08 | 3.08 |
| 241640 | 10.28 | 10.28 | 10.28 | 10.28 | 17.37 | 17.37 | 17.37 | 17.37 | 20.49 | 20.49 | 20.49 | 20.49 | 21.63 | 21.63 | 21.63 | 21.63 | 16.84 | 16.84 | 16.84 | 16.84 |
| 241650 | 1.61 | 1.61 | 1.61 | 1.61 | 1.61 | 1.61 | 1.61 | 1.61 | 1.65 | 1.65 | 1.65 | 1.65 | 1.69 | 1.69 | 1.69 | 1.69 | 1.61 | 1.61 | 1.61 | 1.61 |
| 241660 | 5.94 | 5.94 | 5.94 | 5.94 | 11.52 | 11.52 | 11.52 | 11.52 | 14.66 | 14.66 | 14.66 | 14.66 | 16.23 | 16.23 | 16.23 | 16.23 | 24.45 | 24.45 | 24.45 | 24.45 |
| 241670 | 1.44 | 1.44 | 1.44 | 1.44 | 2.82 | 2.82 | 2.82 | 2.82 | 3.43 | 3.43 | 3.43 | 3.43 | 3.74 | 3.74 | 3.74 | 3.74 | 8.93 | 8.93 | 8.93 | 8.93 |
| 241680 | 3.97 | 3.97 | 3.97 | 3.97 | 7.46 | 7.46 | 7.46 | 7.46 | 9.43 | 9.43 | 9.43 | 9.43 | 10.41 | 10.41 | 10.41 | 10.41 | 15.58 | 15.58 | 15.58 | 15.58 |
| 241690 | 3.46 | 3.49 | 3.49 | 3.49 | 7.41 | 7.44 | 7.44 | 7.44 | 10.38 | 10.38 | 10.38 | 10.38 | 12.11 | 12.11 | 12.11 | 12.11 | 19.88 | 19.88 | 19.88 | 19.88 |
| 241695 | 4.05 | 4.07 | 4.07 | 4.07 | 8.47 | 8.52 | 8.52 | 8.52 | 12.25 | 12.25 | 12.25 | 12.25 | 14.38 | 14.38 | 14.38 | 14.38 | 23.39 | 23.39 | 23.39 | 23.39 |
| 241700 | 49.43 | 49.46 | 49.46 | 49.46 | 103.29 | 103.31 | 103.31 | 103.31 | 128.65 | 128.65 | 128.65 | 128.65 | 142.58 | 142.57 | 142.57 | 142.57 | 196.55 | 196.55 | 196.55 | 196.55 |
| 241710 | 50.78 | 50.82 | 50.82 | 50.82 | 103.46 | 103.49 | 103.49 | 103.49 | 130.47 | 130.47 | 130.47 | 130.47 | | | | | | | | |

Summary of Flow Results at all Nodes

| Node | 2.33YR24HR | | | | 25YR24HR | | | | 50YR24HR | | | | 100YR24HR | | | | 500YR24HR | | | |
|--------|-----------------------|---------------------------------|-----------------------|-----------------------------|-----------------------|---------------------------------|-----------------------|-----------------------------|-----------------------|---------------------------------|-----------------------|-----------------------------|-----------------------|---------------------------------|-----------------------|-----------------------------|-----------------------|---------------------------------|-----------------------|-----------------------------|
| | Effective Model (cfs) | Corrected Effective Model (cfs) | Proposed Bridge (cfs) | Proposed Box Culverts (cfs) | Effective Model (cfs) | Corrected Effective Model (cfs) | Proposed Bridge (cfs) | Proposed Box Culverts (cfs) | Effective Model (cfs) | Corrected Effective Model (cfs) | Proposed Bridge (cfs) | Proposed Box Culverts (cfs) | Effective Model (cfs) | Corrected Effective Model (cfs) | Proposed Bridge (cfs) | Proposed Box Culverts (cfs) | Effective Model (cfs) | Corrected Effective Model (cfs) | Proposed Bridge (cfs) | Proposed Box Culverts (cfs) |
| 242520 | 28.4 | 28.4 | 28.4 | 28.4 | 53.19 | 53.19 | 53.19 | 53.19 | 67.18 | 67.18 | 67.18 | 67.18 | 74.15 | 74.15 | 74.15 | 74.15 | 110.92 | 110.92 | 110.92 | 110.92 |
| 242530 | 6.76 | 6.75 | 6.75 | 6.75 | 9.37 | 9.38 | 9.38 | 9.38 | 9.64 | 9.64 | 9.64 | 9.64 | 11.17 | 11.17 | 11.17 | 11.17 | 16.09 | 16.09 | 16.09 | 16.09 |
| 242540 | 34.91 | 34.93 | 34.93 | 34.93 | 65.31 | 65.34 | 65.34 | 65.34 | 82.94 | 82.94 | 82.94 | 82.94 | 85.06 | 85.06 | 85.06 | 85.06 | 88.91 | 88.91 | 88.91 | 88.91 |
| 242550 | 25.76 | 25.76 | 25.76 | 25.76 | 48.4 | 48.4 | 48.4 | 48.4 | 61.18 | 61.18 | 61.18 | 61.18 | 67.55 | 67.55 | 67.55 | 67.55 | 101.1 | 101.1 | 101.1 | 101.1 |
| 242560 | 12.06 | 12.08 | 12.08 | 12.08 | 12.12 | 12.12 | 12.12 | 12.12 | 10.87 | 10.87 | 10.87 | 10.87 | 10.35 | 10.35 | 10.35 | 10.35 | 12.27 | 12.27 | 12.27 | 12.27 |
| 242570 | 21.71 | 21.75 | 21.75 | 21.75 | 44.33 | 44.34 | 44.34 | 44.34 | 54.39 | 54.39 | 54.39 | 54.39 | 59.26 | 59.26 | 59.26 | 59.26 | 84.63 | 84.63 | 84.63 | 84.63 |
| 242600 | 13.12 | 13.14 | 13.14 | 13.14 | 15.08 | 15.08 | 15.08 | 15.08 | 13.41 | 13.41 | 13.41 | 13.41 | 12.51 | 12.51 | 12.51 | 12.51 | 9.76 | 9.76 | 9.76 | 9.76 |
| 242610 | 13.99 | 14 | 14 | 14 | 23.22 | 23.21 | 23.21 | 23.21 | 25.39 | 25.39 | 25.39 | 25.39 | 26.54 | 26.54 | 26.54 | 26.54 | 33.18 | 33.18 | 33.18 | 33.18 |
| 242615 | 8.65 | 8.65 | 8.65 | 8.65 | 19.42 | 19.42 | 19.42 | 19.42 | 25.65 | 25.65 | 25.65 | 25.65 | 28.76 | 28.76 | 28.76 | 28.76 | 45.15 | 45.15 | 45.15 | 45.15 |
| 242620 | 2.34 | 2.34 | 2.34 | 2.34 | 3.28 | 3.28 | 3.28 | 3.28 | 5.51 | 5.51 | 5.51 | 5.51 | 9.31 | 9.31 | 9.31 | 9.31 | 28.59 | 28.59 | 28.59 | 28.59 |
| 242630 | 22.74 | 22.74 | 22.74 | 22.74 | 43.22 | 43.22 | 43.22 | 43.22 | 54.78 | 54.78 | 54.78 | 54.78 | 60.53 | 60.53 | 60.53 | 60.53 | 90.82 | 90.82 | 90.82 | 90.82 |
| 242640 | 1.63 | 1.63 | 1.63 | 1.63 | 2.21 | 2.21 | 2.21 | 2.21 | 2.07 | 2.07 | 2.07 | 2.07 | 1.44 | 1.44 | 1.44 | 1.44 | 2.28 | 2.28 | 2.28 | 2.28 |
| 242650 | 5.83 | 5.83 | 5.83 | 5.83 | 11.12 | 11.12 | 11.12 | 11.12 | 14.1 | 14.1 | 14.1 | 14.1 | 15.58 | 15.58 | 15.58 | 15.58 | 23.39 | 23.39 | 23.39 | 23.39 |
| 242660 | 6.59 | 6.59 | 6.59 | 6.59 | 10.17 | 10.17 | 10.17 | 10.17 | 10.68 | 10.68 | 10.68 | 10.68 | 10.87 | 10.87 | 10.87 | 10.87 | 30.01 | 30.01 | 30.01 | 30.01 |
| 242670 | 44.35 | 44.35 | 44.35 | 44.35 | 80.97 | 80.97 | 80.97 | 80.97 | 101.74 | 101.74 | 101.74 | 101.74 | 112.1 | 112.1 | 112.1 | 112.1 | 166.85 | 166.85 | 166.85 | 166.85 |
| 242680 | 6.78 | 6.76 | 6.76 | 6.76 | 5.42 | 5.42 | 5.42 | 5.42 | 6.42 | 6.42 | 6.42 | 6.42 | 6.6 | 6.6 | 6.6 | 6.6 | 7.18 | 7.18 | 7.18 | 7.18 |
| 242690 | 31.97 | 31.97 | 31.97 | 31.97 | 59.56 | 59.56 | 59.56 | 59.56 | 75.14 | 75.14 | 75.14 | 75.14 | 82.9 | 82.9 | 82.9 | 82.9 | 123.87 | 123.87 | 123.87 | 123.87 |
| 242700 | 17.8 | 17.8 | 17.8 | 17.8 | 50.04 | 50.04 | 50.04 | 50.04 | 65.79 | 65.79 | 65.79 | 65.79 | 73.18 | 73.18 | 73.18 | 73.18 | 120.46 | 120.46 | 120.46 | 120.46 |
| 242710 | 59.62 | 59.62 | 59.62 | 59.62 | 110.99 | 110.99 | 110.99 | 110.99 | 142.18 | 142.18 | 142.18 | 142.18 | 157.69 | 157.69 | 157.69 | 157.69 | 239.31 | 239.31 | 239.31 | 239.31 |
| 242720 | 0.57 | 0.57 | 0.57 | 0.57 | 2.49 | 2.49 | 2.49 | 2.49 | 3.07 | 3.07 | 3.07 | 3.07 | 3.37 | 3.37 | 3.37 | 3.37 | 6.49 | 6.49 | 6.49 | 6.49 |
| 242730 | 0.57 | 0.57 | 0.57 | 0.57 | 1.41 | 1.41 | 1.41 | 1.41 | 1.9 | 1.9 | 1.9 | 1.9 | 2.16 | 2.16 | 2.16 | 2.16 | 7.5 | 7.5 | 7.5 | 7.5 |
| 242740 | 15.06 | 15.06 | 15.06 | 15.06 | 27.3 | 27.3 | 27.3 | 27.3 | 34.26 | 34.26 | 34.26 | 34.26 | 37.72 | 37.72 | 37.72 | 37.72 | 56.08 | 56.08 | 56.08 | 56.08 |
| 242800 | 31.03 | 31.06 | 31.06 | 31.06 | 71.57 | 71.59 | 71.59 | 71.59 | 90.62 | 90.62 | 90.62 | 90.62 | 99.19 | 99.19 | 99.19 | 99.19 | 141.37 | 141.37 | 141.37 | 141.37 |
| 242810 | 23.31 | 23.32 | 23.32 | 23.32 | 43.45 | 43.46 | 43.46 | 43.46 | 49.71 | 49.71 | 49.71 | 49.71 | 52.67 | 52.67 | 52.67 | 52.67 | 67.38 | 67.38 | 67.38 | 67.38 |
| 242820 | 33.07 | 33.08 | 33.08 | 33.08 | 74.37 | 74.37 | 74.37 | 74.37 | 97.55 | 97.55 | 97.55 | 97.55 | 109.09 | 109.09 | 109.09 | 109.09 | 171.85 | 171.85 | 171.85 | 171.85 |
| 242830 | 8.14 | 8.14 | 8.14 | 8.14 | 10.01 | 10.01 | 10.01 | 10.01 | 9.57 | 9.57 | 9.57 | 9.57 | 9.29 | 9.29 | 9.29 | 9.29 | 6.56 | 6.56 | 6.56 | 6.56 |
| 242840 | 3.53 | 3.53 | 3.53 | 3.53 | 5.9 | 5.9 | 5.9 | 5.9 | 8.33 | 8.33 | 8.33 | 8.33 | 9.92 | 9.92 | 9.92 | 9.92 | 16.47 | 16.47 | 16.47 | 16.47 |
| 242850 | 16.75 | 16.75 | 16.75 | 16.75 | 30.62 | 30.62 | 30.62 | 30.62 | 38.48 | 38.48 | 38.48 | 38.48 | 42.4 | 42.4 | 42.4 | 42.4 | 63.12 | 63.12 | 63.12 | 63.12 |
| 242860 | 8.16 | 8.16 | 8.16 | 8.16 | 16.41 | 16.41 | 16.41 | 16.41 | 18.34 | 18.34 | 18.34 | 18.34 | 18.54 | 18.54 | 18.54 | 18.54 | 16.79 | 16.79 | 16.79 | 16.79 |
| 242870 | 9.49 | 9.49 | 9.49 | 9.49 | 18.6 | 18.6 | 18.6 | 18.6 | 23.74 | 23.74 | 23.74 | 23.74 | 26.3 | 26.3 | 26.3 | 26.3 | 39.74 | 39.74 | 39.74 | 39.74 |
| 250005 | 82.96 | 86.5 | 86.5 | 86.5 | 172.81 | 179.55 | 179.55 | 179.55 | 221.85 | 228.3 | 228.3 | 228.3 | 244.66 | 250.75 | 250.75 | 250.75 | 348.41 | 350.88 | 350.87 | 350.87 |
| 250010 | 84.02 | 87.43 | 87.43 | 87.43 | 181.39 | 189.14 | 189.14 | 189.14 | 239.36 | 247.6 | 247.6 | 247.6 | 266.96 | 275.34 | 275.34 | 275.34 | 400.89 | 406.43 | 406.42 | 406.42 |
| 250020 | 57.25 | 63.8 | 63.8 | 63.8 | 110.51 | 118.28 | 118.28 | 118.28 | 140.9 | 148.83 | 148.83 | 148.83 | 154.45 | 162.39 | 162.39 | 162.39 | 213.69 | 219.18 | 219.18 | 219.18 |
| 250030 | 64.52 | 69.44 | 69.44 | 69.44 | 139.98 | 145.01 | 145.01 | 145.01 | 179.57 | 185.92 | 185.92 | 185.92 | 196 | 206.64 | 206.64 | 206.64 | 283.8 | 292.03 | 292.03 | 292.03 |
| 250040 | 54.72 | 62.1 | 62.1 | 62.1 | 80.49 | 88.05 | 88.05 | 88.05 | 96.05 | 100.88 | 100.87 | 100.87 | 103.64 | 106.79 | 106.77 | 106.77 | 139.26 | 133.22 | 133.18 | 133.18 |
| 250050 | 78.07 | 97.03 | 97.03 | 97.03 | 149.02 | 171.09 | 171.09 | 171.09 | 188.32 | 204.79 | 204.79 | 204.79 | 208.15 | 221.06 | 221.06 | 221.06 | 317.55 | 305.35 | 305.31 | 305.31 |
| 250060 | 48.33 | 71.2 | 71.2 | 71.2 | 82.35 | 89.82 | 89.74 | 89.74 | 110.84 | 102.41 | 102.41 | 102.41 | 123.65 | 108.57 | 108.06 | 108.06 | 183.91 | 132.52 | 131.96 | 131.96 |
| 250070 | 106.95 | 110.06 | 110.06 | 110.06 | 195.38 | 196.65 | 196.65 | 196.65 | 245.35 | 245.97 | 245.98 | 245.98 | 270.53 | 271.05 | 271.09 | 271.09 | 399.26 | 399.44 | 399.55 | 399.55 |
| 250080 | 48.06 | 50.17 | 50.17 | 50.17 | 49.76 | 52.12 | 52.12 | 52.12 | 53.12 | 54.15 | 54.17 | 54.17 | 56.35 | 57.27 | 57.3 | 57.3 | 72.13 | 72.8 | 72.86 | 72.86 |
| 250090 | 70.93 | 71.06 | 71.06 | 71.06 | 127.22 | 127.21 | 127.21 | 127.21 | 159.65 | 159.46 | 159.46 | 159.46 | 175.34 | 175.07 | 175.07 | 175.07 | 251.37 | 251.26 | 251.26 | 251.26 |
| 250100 | 68.8 | 68.88 | 68.88 | 68.88 | 101.49 | 101.61 | 101.61 | 101.61 | 111.8 | 111.84 | 111.84 | 111.84 | 116.48 | 116.49 | 116.5 | 116.5 | 136.44 | 136.37 | 136.4 | 136.4 |
| 250110 | 130.98 | 131.07 | 131.07 | 131.07 | 242.49 | 242.8 | 242.8 | 242.8 | 286.41 | 286.85 | 286.85 | 286.85 | 308.03 | 308.44 | 308.44 | 308.44 | 433.54 | 433.5 | 433.5 | 433.5 |
| 250120 | 71.19 | 71.2 | 71.2 | 71.2 | 123.14 | 123.14 | 123.14 | 123.14 | 149.13 | 149.13 | 149.13 | 149.13 | 163.69 | 163.69 | 163.69 | 163.69 | 234.25 | 234.25 | 234.25 | 234.25 |
| 250130 | 63.09 | 63.08 | 63.08 | 63.08 | 179.14 | 179.15 | 179.15 | 179.15 | 187.28 | 187.28 | 187.28 | 187.28 | 189.38 | 189.39 | 189.39 | 189.39 | 200.68 | 200.68 | 200.68 | 200.68 |
| 250140 | 34.13 | 34.13 | 34.13 | 34.13 | 43.77 | 43.77 | 43.77 | 43.77 | 51.41 | 51.41 | 51.41 | 51.41 | 54.06 | 54.05 | 54.05 | 54.05 | 62.41 | 62.4 | 62.4 | 62.4 |
| 250150 | 36.69 | 36.69 | 36.69 | 36.69 | 55.33 | 55.33 | 55.33 | 55.33 | 66.13 | 66.13 | 66.13 | 66.13 | 71.42 | 71.42 | 71.42 | 71.42 | 98.98 | 98.98 | 98.98 | 98.98 |
| 250160 | 24.98 | 24.98 | 24.98 | 24.98 | 26.38 | 26.38 | 26.38 | 26.38 | 26.44 | 26.44 | 26.44 | 26.44 | 26.41 | 26.41 | 26.41 | 26.41 | 25.72 | 25.72 | 25.72 | 25.72 |
| 250170 | 58.29 | 58.29 | 58.29 | 58.29 | 95.88 | 95.88 | 95.88 | 95.88 | 116.04 | 116.04 | 116.04 | 116.04 | 126.25 | 126.25 | 126.25 | 126.25 | 183.14 | 183.14 | 183.14 | 183.14 |
| 250180 | 22.32 | 22.32 | 22.32 | 22.32 | 25.67 | 25.67 | 25.67 | 25.67 | 32.44 | 32.44 | 32.44 | 32.44 | 35.68 | 35.68 | 35.68 | 35.68 | 44.07 | 44.07 | 44.07 | 44.07 |
| 250190 | 28.37 | 28.37 | 28.37 | 28.37 | 49.22 | 49.22 | 49.22 | 49.22 | 63.08 | 63.08 | 63.08 | 63.08 | 69.7 | 69.7 | 69.7 | 69.7 | 103.1 | 103.1 | 103.1 | 103.1 |
| 250200 | 20.12 | 20.12 | 20.12 | 20.12 | 35.57 | 35.57 | 35.57 | 35.57 | 44.24 | 44.24 | 44.24 | 44.24 | 48.5 | 48.5 | 48.5 | 48.5 | 73.14 | 73.14 | 73.14 | 73.14 |
| 250210 | 5.72 | 5.72 | 5.72 | 5.72 | 9.69 | 9.69 | 9.69 | 9.69 | 13.82 | 13.82 | 13.82 | 13.82 | 15.67 | 15.67 | 15.67 | 15.67 | 24.65 | 24.65 | 24.65 | 24.65 |
| 250220 | 7.49 | 7.49 | 7.49 | 7.49 | 14.52 | 14.52 | 14.52 | 14.52 | 18.49 | 18.49 | 18.49 | 18.49 | 20.46 | 20.46 | 20.46 | 20.46 | 30.86 | 30.86 | 30.86 | 30.86 |
| 250300 | 3.23 | 3.17 | 3.17 | 3.17 | 9.03 | 8.81 | 8.81 | 8.81 | 11.36 | 10.5 | 10.5 | 10.5 | 11.64 | 10.6 | 10.6 | 10.6 | 12.4 | 12.06 | 12.06 | 12.06 |
| 250310 | 9.19 | 9.19 | 9.19 | 9.19 | 16.82 | 16.82 | 16.82 | 16.82 | 21.14 | 21.14 | 21.14 | 21.14 | 23.3 | 23.3 | 23.3 | 23.3 | 34.69 | 34.69 | 34.69 | 34.69 |
| 250320 | 2.83 | 2.83 | 2.83 | 2.83 | 4.24 | 4.2 | 4.2 | 4.2 | 4.75 | 4.72 | | | | | | | | | | |

Summary of Flow Results at all Nodes

| Node | 2.33YR24HR | | | | 25YR24HR | | | | 50YR24HR | | | | 100YR24HR | | | | 500YR24HR | | | |
|--------|-----------------------|---------------------------------|-----------------------|-----------------------------|-----------------------|---------------------------------|-----------------------|-----------------------------|-----------------------|---------------------------------|-----------------------|-----------------------------|-----------------------|---------------------------------|-----------------------|-----------------------------|-----------------------|---------------------------------|-----------------------|-----------------------------|
| | Effective Model (cfs) | Corrected Effective Model (cfs) | Proposed Bridge (cfs) | Proposed Box Culverts (cfs) | Effective Model (cfs) | Corrected Effective Model (cfs) | Proposed Bridge (cfs) | Proposed Box Culverts (cfs) | Effective Model (cfs) | Corrected Effective Model (cfs) | Proposed Bridge (cfs) | Proposed Box Culverts (cfs) | Effective Model (cfs) | Corrected Effective Model (cfs) | Proposed Bridge (cfs) | Proposed Box Culverts (cfs) | Effective Model (cfs) | Corrected Effective Model (cfs) | Proposed Bridge (cfs) | Proposed Box Culverts (cfs) |
| 260290 | 189.59 | 189.71 | 189.71 | 189.71 | 324.51 | 324.58 | 324.58 | 324.58 | 383.29 | 383.29 | 383.29 | 383.29 | 408.79 | 408.79 | 408.79 | 408.79 | 501.24 | 501.24 | 501.24 | 501.24 |
| 260300 | 196.51 | 196.63 | 196.63 | 196.63 | 324.33 | 324.4 | 324.4 | 324.4 | 381.59 | 381.59 | 381.59 | 381.59 | 406.1 | 406.1 | 406.1 | 406.1 | 496.81 | 496.81 | 496.81 | 496.81 |
| 260310 | 213.56 | 213.7 | 213.7 | 213.7 | 320.2 | 320.27 | 320.27 | 320.27 | 376.02 | 376.02 | 376.02 | 376.02 | 399.9 | 399.9 | 399.9 | 399.9 | 486.92 | 486.92 | 486.92 | 486.92 |
| 260320 | 212.21 | 212.36 | 212.36 | 212.36 | 355.15 | 355.21 | 355.21 | 355.21 | 408.5 | 408.5 | 408.5 | 408.5 | 430.89 | 430.89 | 430.89 | 430.89 | 525.5 | 525.5 | 525.5 | 525.5 |
| 260330 | 210.06 | 210.2 | 210.21 | 210.21 | 351.27 | 351.34 | 351.34 | 351.34 | 405.45 | 405.45 | 405.45 | 405.45 | 427.51 | 427.51 | 427.51 | 427.51 | 521.65 | 521.65 | 521.65 | 521.65 |
| 260340 | 204.79 | 204.94 | 204.94 | 204.94 | 333.45 | 333.53 | 333.53 | 333.53 | 387.68 | 387.68 | 387.68 | 387.68 | 412.89 | 412.89 | 412.89 | 412.89 | 541.24 | 541.24 | 541.24 | 541.24 |
| 260350 | 179.59 | 179.71 | 179.71 | 179.71 | 296.7 | 296.76 | 296.76 | 296.76 | 351.84 | 351.84 | 351.84 | 351.84 | 379.4 | 379.4 | 379.4 | 379.4 | 527.52 | 527.52 | 527.52 | 527.52 |
| 260360 | 202.78 | 202.9 | 202.9 | 202.9 | 317.94 | 318.01 | 318.01 | 318.01 | 378.34 | 378.34 | 378.34 | 378.34 | 408.42 | 408.42 | 408.42 | 408.42 | 562.79 | 562.79 | 562.79 | 562.79 |
| 260370 | 160.28 | 160.46 | 160.46 | 160.46 | 310.99 | 311.07 | 311.07 | 311.07 | 386.23 | 386.23 | 386.23 | 386.23 | 422.61 | 422.61 | 422.61 | 422.61 | 618.56 | 618.56 | 618.56 | 618.56 |
| 260380 | 135.39 | 135.41 | 135.41 | 135.41 | 218.82 | 218.95 | 218.95 | 218.95 | 269.6 | 269.6 | 269.6 | 269.6 | 293.47 | 293.47 | 293.47 | 293.47 | 412.43 | 412.43 | 412.43 | 412.43 |
| 260390 | 128.11 | 128.13 | 128.13 | 128.13 | 208.81 | 208.91 | 208.91 | 208.91 | 257.13 | 257.13 | 257.13 | 257.13 | 279.4 | 279.4 | 279.4 | 279.4 | 377.7 | 377.7 | 377.7 | 377.7 |
| 260400 | 127.46 | 127.48 | 127.48 | 127.48 | 183.51 | 183.53 | 183.53 | 183.53 | 217.67 | 217.67 | 217.67 | 217.67 | 235.48 | 235.48 | 235.48 | 235.48 | 309.02 | 309.02 | 309.02 | 309.02 |
| 260410 | 123.76 | 123.77 | 123.77 | 123.77 | 170.97 | 171 | 171 | 171 | 210.48 | 210.48 | 210.48 | 210.48 | 226.22 | 226.22 | 226.22 | 226.22 | 279.27 | 279.27 | 279.27 | 279.27 |
| 260420 | 122.35 | 122.36 | 122.36 | 122.36 | 170.97 | 171 | 171 | 171 | 206.53 | 206.53 | 206.53 | 206.53 | 220.37 | 220.37 | 220.37 | 220.37 | 271.04 | 271.04 | 271.04 | 271.04 |
| 260430 | 129.02 | 129.04 | 129.04 | 129.04 | 216.57 | 216.59 | 216.59 | 216.59 | 248.87 | 248.87 | 248.87 | 248.87 | 261.27 | 261.27 | 261.27 | 261.27 | 312.42 | 312.42 | 312.42 | 312.42 |
| 260440 | 71.72 | 71.73 | 71.73 | 71.73 | 110.02 | 110.04 | 110.04 | 110.04 | 123.54 | 123.54 | 123.54 | 123.54 | 127.49 | 127.49 | 127.49 | 127.49 | 137.59 | 137.59 | 137.59 | 137.59 |
| 260450 | 67.59 | 67.6 | 67.6 | 67.6 | 101.8 | 101.81 | 101.81 | 101.81 | 106.76 | 106.76 | 106.76 | 106.76 | 109.86 | 109.86 | 109.86 | 109.86 | 116.88 | 116.88 | 116.88 | 116.88 |
| 260460 | 67.25 | 67.27 | 67.27 | 67.27 | 101.62 | 101.63 | 101.63 | 101.63 | 109.16 | 109.16 | 109.16 | 109.16 | 113.85 | 113.85 | 113.85 | 113.85 | 126.87 | 126.87 | 126.87 | 126.87 |
| 260470 | 66.19 | 66.2 | 66.2 | 66.2 | 99.54 | 99.55 | 99.55 | 99.55 | 109.25 | 109.25 | 109.25 | 109.25 | 114.03 | 114.03 | 114.03 | 114.03 | 127.63 | 127.63 | 127.63 | 127.63 |
| 260480 | 65.87 | 65.89 | 65.89 | 65.89 | 99.03 | 99.04 | 99.04 | 99.04 | 110.55 | 110.55 | 110.55 | 110.55 | 115.6 | 115.6 | 115.6 | 115.6 | 133.15 | 133.15 | 133.15 | 133.15 |
| 260490 | 65.79 | 65.8 | 65.8 | 65.8 | 98.88 | 98.89 | 98.89 | 98.89 | 110.42 | 110.42 | 110.42 | 110.42 | 115.4 | 115.4 | 115.4 | 115.4 | 132.47 | 132.47 | 132.47 | 132.47 |
| 260500 | 177.77 | 177.87 | 177.87 | 177.87 | 347.09 | 347.16 | 347.16 | 347.16 | 433.87 | 433.87 | 433.87 | 433.87 | 473.55 | 473.55 | 473.55 | 473.55 | 655.25 | 655.25 | 655.25 | 655.25 |
| 260510 | 99.49 | 99.57 | 99.57 | 99.57 | 194.89 | 194.98 | 194.98 | 194.98 | 244.5 | 244.5 | 244.5 | 244.5 | 265.97 | 265.97 | 265.97 | 265.97 | 358.38 | 358.38 | 358.38 | 358.38 |
| 260520 | 57.41 | 57.59 | 57.59 | 57.59 | 131.67 | 131.82 | 131.82 | 131.82 | 162.01 | 162.01 | 162.01 | 162.01 | 173.42 | 173.42 | 173.42 | 173.42 | 225.8 | 225.8 | 225.8 | 225.8 |
| 260530 | 49.13 | 49.25 | 49.25 | 49.25 | 85.63 | 85.67 | 85.67 | 85.67 | 89.94 | 89.94 | 89.94 | 89.94 | 89.46 | 89.46 | 89.46 | 89.46 | 87.34 | 87.34 | 87.34 | 87.34 |
| 260540 | 41.68 | 41.81 | 41.81 | 41.81 | 76.2 | 76.27 | 76.27 | 76.27 | 87.17 | 87.17 | 87.17 | 87.17 | 93.98 | 93.98 | 93.98 | 93.98 | 114.08 | 114.08 | 114.08 | 114.08 |
| 260545 | 38.39 | 38.46 | 38.46 | 38.46 | 65.09 | 65.14 | 65.14 | 65.14 | 81.05 | 81.05 | 81.05 | 81.05 | 88.84 | 88.84 | 88.84 | 88.84 | 109.78 | 109.78 | 109.78 | 109.78 |
| 260550 | 38.72 | 38.78 | 38.78 | 38.78 | 70.6 | 70.63 | 70.63 | 70.63 | 89.67 | 89.67 | 89.67 | 89.67 | 97.74 | 97.74 | 97.74 | 97.74 | 120.66 | 120.66 | 120.66 | 120.66 |
| 260560 | 40.71 | 40.79 | 40.79 | 40.79 | 69.31 | 69.35 | 69.35 | 69.35 | 77.25 | 77.25 | 77.25 | 77.25 | 79.21 | 79.21 | 79.21 | 79.21 | 96.85 | 96.85 | 96.85 | 96.85 |
| 260570 | 33.8 | 33.88 | 33.88 | 33.88 | 62.27 | 62.32 | 62.32 | 62.32 | 73.56 | 73.56 | 73.56 | 73.56 | 78.34 | 78.34 | 78.34 | 78.34 | 91.4 | 91.4 | 91.4 | 91.4 |
| 260580 | 33.12 | 33.19 | 33.19 | 33.19 | 62.15 | 62.2 | 62.2 | 62.2 | 72.04 | 72.04 | 72.04 | 72.04 | 76.62 | 76.62 | 76.62 | 76.62 | 113.05 | 113.05 | 113.05 | 113.05 |
| 260590 | 28.11 | 28.17 | 28.17 | 28.17 | 48.29 | 48.31 | 48.31 | 48.31 | 47.19 | 47.19 | 47.19 | 47.19 | 47.07 | 47.07 | 47.07 | 47.07 | 46.73 | 46.73 | 46.73 | 46.73 |
| 260600 | 28.27 | 28.32 | 28.32 | 28.32 | 48.34 | 48.35 | 48.35 | 48.35 | 47.38 | 47.38 | 47.38 | 47.38 | 47.31 | 47.31 | 47.31 | 47.31 | 47.09 | 47.09 | 47.09 | 47.09 |
| 260610 | 38.35 | 38.37 | 38.37 | 38.37 | 69.54 | 69.52 | 69.52 | 69.52 | 72.42 | 72.42 | 72.42 | 72.42 | 72.06 | 72.06 | 72.06 | 72.06 | 75.56 | 75.56 | 75.56 | 75.56 |
| 260620 | 27.1 | 27.1 | 27.1 | 27.1 | 36.76 | 36.76 | 36.76 | 36.76 | 37.32 | 37.32 | 37.32 | 37.32 | 36.72 | 36.72 | 36.72 | 36.72 | 29.62 | 29.62 | 29.62 | 29.62 |
| 260630 | 28.02 | 28.01 | 28.01 | 28.01 | 37.08 | 37.07 | 37.07 | 37.07 | 37.79 | 37.79 | 37.79 | 37.79 | 37.34 | 37.34 | 37.34 | 37.34 | 39.83 | 39.83 | 39.83 | 39.83 |
| 260640 | 29.09 | 29.09 | 29.09 | 29.09 | 36.92 | 36.91 | 36.91 | 36.91 | 39.93 | 39.93 | 39.93 | 39.93 | 42.04 | 42.04 | 42.04 | 42.04 | 43.43 | 43.43 | 43.43 | 43.43 |
| 260650 | 19.76 | 19.76 | 19.76 | 19.76 | 23.21 | 23.21 | 23.21 | 23.21 | 23.35 | 23.35 | 23.35 | 23.35 | 24.46 | 24.46 | 24.46 | 24.46 | 24.52 | 24.52 | 24.52 | 24.52 |
| 260660 | 20.37 | 20.36 | 20.36 | 20.36 | 23.31 | 23.31 | 23.31 | 23.31 | 24.07 | 24.07 | 24.07 | 24.07 | 25.15 | 25.15 | 25.15 | 25.15 | 26.79 | 26.79 | 26.79 | 26.79 |
| 260670 | 16.38 | 16.37 | 16.37 | 16.37 | 22.74 | 22.73 | 22.73 | 22.73 | 23.56 | 23.56 | 23.56 | 23.56 | 24.64 | 24.64 | 24.64 | 24.64 | 25.1 | 25.1 | 25.1 | 25.1 |
| 260680 | 46.61 | 46.6 | 46.6 | 46.6 | 63.75 | 63.69 | 63.69 | 63.69 | 66.91 | 66.91 | 66.91 | 66.91 | 65.89 | 65.89 | 65.89 | 65.89 | 68.63 | 68.63 | 68.63 | 68.63 |
| 260690 | 40.28 | 40.29 | 40.29 | 40.29 | 65.99 | 65.99 | 65.99 | 65.99 | 78.01 | 78.01 | 78.01 | 78.01 | 83.68 | 83.68 | 83.68 | 83.68 | 110.44 | 110.44 | 110.44 | 110.44 |
| 260700 | 3.54 | 3.54 | 3.54 | 3.54 | 9.25 | 9.25 | 9.25 | 9.25 | 11.61 | 11.61 | 11.61 | 11.61 | 12.65 | 12.65 | 12.65 | 12.65 | 15.07 | 15.07 | 15.07 | 15.07 |
| 260710 | 9.35 | 9.35 | 9.35 | 9.35 | 21.44 | 21.44 | 21.44 | 21.44 | 28.52 | 28.52 | 28.52 | 28.52 | 32.07 | 32.07 | 32.07 | 32.07 | 50.93 | 50.93 | 50.93 | 50.93 |
| 260720 | 10.17 | 10.17 | 10.17 | 10.17 | 23.02 | 23.02 | 23.02 | 23.02 | 30.45 | 30.45 | 30.45 | 30.45 | 34.17 | 34.17 | 34.17 | 34.17 | 53.7 | 53.7 | 53.7 | 53.7 |
| 260800 | 21.12 | 21.12 | 21.12 | 21.12 | 159.38 | 159.44 | 159.44 | 159.44 | 239.49 | 239.49 | 239.49 | 239.49 | 275.58 | 275.58 | 275.58 | 275.58 | 415.01 | 415.01 | 415.01 | 415.01 |
| 260810 | 4.12 | 4.12 | 4.12 | 4.12 | 7.74 | 7.74 | 7.74 | 7.74 | 9.46 | 9.46 | 9.46 | 9.46 | 10.87 | 10.87 | 10.87 | 10.87 | 15.71 | 15.71 | 15.71 | 15.71 |
| 260820 | 15.3 | 15.3 | 15.3 | 15.3 | 28.76 | 28.76 | 28.76 | 28.76 | 36.35 | 36.35 | 36.35 | 36.35 | 40.13 | 40.13 | 40.13 | 40.13 | 64.14 | 64.14 | 64.14 | 64.14 |
| 260830 | 1.4 | 1.4 | 1.4 | 1.4 | 3.11 | 3.11 | 3.11 | 3.11 | 9.24 | 9.24 | 9.24 | 9.24 | 13.07 | 13.07 | 13.07 | 13.07 | 23.26 | 23.26 | 23.26 | 23.26 |
| 260840 | 4.85 | 4.85 | 4.85 | 4.85 | 9.11 | 9.11 | 9.11 | 9.11 | 11.52 | 11.52 | 11.52 | 11.52 | 12.72 | 12.72 | 12.72 | 12.72 | 32.99 | 32.99 | 32.99 | 32.99 |
| 260850 | 29.37 | 29.37 | 29.37 | 29.37 | 133.66 | 133.76 | 133.76 | 133.76 | 216.55 | 216.55 | 216.55 | 216.55 | 251.08 | 251.08 | 251.08 | 251.08 | 411.25 | 411.25 | 411.25 | 411.25 |
| 260860 | 383.43 | 383.43 | 383.43 | 383.43 | 712.43 | 712.43 | 712.43 | 712.43 | 898.35 | 898.35 | 898.35 | 898.35 | 990.98 | 990.98 | 990.98 | 990.98 | 1479.91 | 1479.91 | 1479.91 | 1479.91 |
| 260870 | 302.92 | 302.92 | 302.92 | 302.92 | 562.84 | 562.84 | 562.84 | 562.84 | 709.72 | 709.72 | 709.72 | 709.72 | 782.91 | 782.91 | 782.91 | 782.91 | 1169.17 | 1169.17 | 1169.17 | 1169.17 |
| 260900 | 143.43 | 143.51 | 143.51 | 143.51 | 245.83 | 245.89 | 245.89 | 245.89 | 278.97 | 278. | | | | | | | | | | |

Summary of Flow Results at all Nodes

| Node | 2.33YR24HR | | | | 25YR24HR | | | | 50YR24HR | | | | 100YR24HR | | | | 500YR24HR | | | |
|--------|-----------------------|---------------------------------|-----------------------|-----------------------------|-----------------------|---------------------------------|-----------------------|-----------------------------|-----------------------|---------------------------------|-----------------------|-----------------------------|-----------------------|---------------------------------|-----------------------|-----------------------------|-----------------------|---------------------------------|-----------------------|-----------------------------|
| | Effective Model (cfs) | Corrected Effective Model (cfs) | Proposed Bridge (cfs) | Proposed Box Culverts (cfs) | Effective Model (cfs) | Corrected Effective Model (cfs) | Proposed Bridge (cfs) | Proposed Box Culverts (cfs) | Effective Model (cfs) | Corrected Effective Model (cfs) | Proposed Bridge (cfs) | Proposed Box Culverts (cfs) | Effective Model (cfs) | Corrected Effective Model (cfs) | Proposed Bridge (cfs) | Proposed Box Culverts (cfs) | Effective Model (cfs) | Corrected Effective Model (cfs) | Proposed Bridge (cfs) | Proposed Box Culverts (cfs) |
| 261500 | 23.64 | 23.64 | 23.64 | 23.64 | 49.24 | 49.24 | 49.24 | 49.24 | 64.06 | 64.06 | 64.06 | 64.06 | 71.43 | 71.43 | 71.43 | 71.43 | 110.15 | 110.15 | 110.15 | 110.15 |
| 261510 | 17.38 | 17.38 | 17.38 | 17.38 | 37.6 | 37.6 | 37.6 | 37.6 | 48.7 | 48.7 | 48.7 | 48.7 | 53.97 | 53.97 | 53.97 | 53.97 | 103.5 | 103.5 | 103.5 | 103.5 |
| 261520 | 6.03 | 6.03 | 6.03 | 6.03 | 13.26 | 13.26 | 13.26 | 13.26 | 17.44 | 17.44 | 17.44 | 17.44 | 21.32 | 21.32 | 21.32 | 21.32 | 44.69 | 44.69 | 44.69 | 44.69 |
| 261530 | 8.54 | 8.54 | 8.54 | 8.54 | 16.59 | 16.59 | 16.59 | 16.59 | 21.14 | 21.14 | 21.14 | 21.14 | 25.42 | 25.42 | 25.42 | 25.42 | 57.2 | 57.2 | 57.19 | 57.19 |
| 261540 | 2.47 | 2.48 | 2.48 | 2.48 | 5.8 | 5.8 | 5.8 | 5.8 | 6.86 | 6.86 | 6.86 | 6.86 | 7.2 | 7.2 | 7.2 | 7.2 | 8.32 | 8.32 | 8.32 | 8.32 |
| 261550 | 20.76 | 20.76 | 20.76 | 20.76 | 38.7 | 38.7 | 38.7 | 38.7 | 48.83 | 48.83 | 48.83 | 48.83 | 54.38 | 54.38 | 54.38 | 54.38 | 80.53 | 80.53 | 80.53 | 80.53 |
| 261560 | 48.52 | 48.52 | 48.52 | 48.52 | 106.27 | 106.28 | 106.28 | 106.28 | 138.43 | 138.43 | 138.43 | 138.43 | 156.08 | 156.08 | 156.08 | 156.08 | 257.51 | 257.51 | 257.51 | 257.51 |
| 261570 | 21.02 | 21.02 | 21.02 | 21.02 | 47.29 | 47.29 | 47.29 | 47.29 | 64.72 | 64.72 | 64.72 | 64.72 | 72.44 | 72.44 | 72.44 | 72.44 | 103.68 | 103.68 | 103.68 | 103.68 |
| 261600 | 35.52 | 35.6 | 35.6 | 35.6 | 44.52 | 44.54 | 44.54 | 44.54 | 42.21 | 42.21 | 42.21 | 42.21 | 40.94 | 40.94 | 40.94 | 40.94 | 38.99 | 38.99 | 38.99 | 38.99 |
| 261610 | 62.51 | 62.83 | 62.83 | 62.83 | 104.12 | 104.12 | 104.12 | 104.12 | 119.86 | 119.86 | 119.86 | 119.86 | 126.59 | 126.59 | 126.59 | 126.59 | 163.01 | 163.01 | 163.01 | 163.01 |
| 261620 | 42.33 | 42.64 | 42.64 | 42.64 | 62.14 | 62.13 | 62.13 | 62.13 | 64.23 | 64.23 | 64.23 | 64.23 | 64.36 | 64.36 | 64.36 | 64.36 | 65.77 | 65.77 | 65.77 | 65.77 |
| 261630 | 43.78 | 44.03 | 44.03 | 44.03 | 69.02 | 69.04 | 69.04 | 69.04 | 79.96 | 79.96 | 79.96 | 79.96 | 85.62 | 85.62 | 85.62 | 85.62 | 115.73 | 115.73 | 115.73 | 115.73 |
| 261640 | 25.29 | 25.35 | 25.35 | 25.35 | 43.45 | 43.45 | 43.45 | 43.45 | 52.18 | 52.18 | 52.18 | 52.18 | 56.21 | 56.21 | 56.21 | 56.21 | 68.49 | 68.49 | 68.49 | 68.49 |
| 261650 | 19.72 | 19.72 | 19.72 | 19.72 | 43.01 | 43.01 | 43.01 | 43.01 | 56.38 | 56.38 | 56.38 | 56.38 | 63.03 | 63.03 | 63.03 | 63.03 | 97.85 | 97.85 | 97.85 | 97.85 |
| 261660 | 8.02 | 8.02 | 8.02 | 8.02 | 17.49 | 17.49 | 17.49 | 17.49 | 22.93 | 22.93 | 22.93 | 22.93 | 25.64 | 25.64 | 25.64 | 25.64 | 39.9 | 39.9 | 39.9 | 39.9 |
| 261670 | 3.66 | 3.66 | 3.66 | 3.66 | 6.85 | 6.85 | 6.85 | 6.85 | 9.69 | 9.69 | 9.69 | 9.69 | 10.96 | 10.96 | 10.96 | 10.96 | 15.35 | 15.35 | 15.35 | 15.35 |
| 261680 | 18.94 | 18.94 | 18.94 | 18.94 | 36.6 | 36.6 | 36.6 | 36.6 | 46.55 | 46.55 | 46.55 | 46.55 | 51.5 | 51.5 | 51.5 | 51.5 | 77.55 | 77.55 | 77.55 | 77.55 |
| 261700 | 59.76 | 59.78 | 59.78 | 59.78 | 158.01 | 158.05 | 158.05 | 158.05 | 223.48 | 223.48 | 223.48 | 223.48 | 250.13 | 250.13 | 250.13 | 250.13 | 342.77 | 342.77 | 342.77 | 342.77 |
| 261710 | 28.11 | 28.11 | 28.11 | 28.11 | 61.86 | 61.88 | 61.88 | 61.88 | 80.65 | 80.65 | 80.65 | 80.65 | 89.81 | 89.81 | 89.81 | 89.81 | 106.16 | 106.16 | 106.16 | 106.16 |
| 261720 | 28.39 | 28.39 | 28.39 | 28.39 | 63.13 | 63.13 | 63.13 | 63.13 | 83.08 | 83.08 | 83.08 | 83.08 | 92.74 | 92.74 | 92.74 | 92.74 | 151.05 | 151.05 | 151.05 | 151.05 |
| 261730 | 1.15 | 1.15 | 1.15 | 1.15 | 5.7 | 5.7 | 5.7 | 5.7 | 8.19 | 8.19 | 8.19 | 8.19 | 10.64 | 10.64 | 10.64 | 10.64 | 17.76 | 17.76 | 17.76 | 17.76 |
| 261740 | 18.73 | 18.73 | 18.73 | 18.73 | 35.12 | 35.12 | 35.12 | 35.12 | 44.37 | 44.37 | 44.37 | 44.37 | 48.98 | 48.98 | 48.98 | 48.98 | 73.29 | 73.29 | 73.29 | 73.29 |
| 261750 | 32.47 | 32.47 | 32.47 | 32.47 | 60.58 | 60.58 | 60.58 | 60.58 | 76.45 | 76.45 | 76.45 | 76.45 | 84.36 | 84.36 | 84.36 | 84.36 | 126.08 | 126.08 | 126.08 | 126.08 |
| 261760 | 0.42 | 0.42 | 0.42 | 0.42 | 1.09 | 1.09 | 1.09 | 1.09 | 2.83 | 2.83 | 2.83 | 2.83 | 3.99 | 3.99 | 3.99 | 3.99 | 13.2 | 13.2 | 13.2 | 13.2 |
| 261796 | 4.52 | 4.53 | 4.53 | 4.53 | 9.05 | 9.07 | 9.07 | 9.07 | 17.24 | 17.24 | 17.24 | 17.24 | 21.63 | 21.63 | 21.63 | 21.63 | 38.22 | 38.22 | 38.22 | 38.22 |
| 261798 | 13.65 | 13.66 | 13.66 | 13.66 | 25.92 | 25.95 | 25.95 | 25.95 | 32.94 | 32.94 | 32.94 | 32.94 | 36.29 | 36.29 | 36.29 | 36.29 | 51.51 | 51.51 | 51.51 | 51.51 |
| 261800 | 10.5 | 10.5 | 10.5 | 10.5 | 19.68 | 19.68 | 19.68 | 19.68 | 24.87 | 24.87 | 24.87 | 24.87 | 27.45 | 27.45 | 27.45 | 27.45 | 41.07 | 41.07 | 41.07 | 41.07 |
| 261806 | 4.52 | 4.52 | 4.52 | 4.52 | 7.08 | 7.11 | 7.11 | 7.11 | 17.43 | 17.43 | 17.43 | 17.43 | 22.62 | 22.62 | 22.62 | 22.62 | 36.24 | 36.24 | 36.24 | 36.24 |
| 261808 | 18.9 | 18.92 | 18.92 | 18.92 | 36.29 | 36.32 | 36.32 | 36.32 | 44.5 | 44.5 | 44.5 | 44.5 | 45.71 | 45.71 | 45.71 | 45.71 | 52.47 | 52.47 | 52.47 | 52.47 |
| 261810 | 15.06 | 15.06 | 15.06 | 15.06 | 28.39 | 28.39 | 28.39 | 28.39 | 35.91 | 35.91 | 35.91 | 35.91 | 39.66 | 39.66 | 39.66 | 39.66 | 59.4 | 59.4 | 59.4 | 59.4 |
| 261820 | 2.39 | 2.39 | 2.39 | 2.39 | 2.52 | 2.52 | 2.52 | 2.52 | 2.66 | 2.66 | 2.66 | 2.66 | 3 | 3 | 3 | 3 | 4.95 | 4.95 | 4.95 | 4.95 |
| 261830 | 23.89 | 23.89 | 23.89 | 23.89 | 49.21 | 49.21 | 49.21 | 49.21 | 63.55 | 63.55 | 63.55 | 63.55 | 70.69 | 70.69 | 70.69 | 70.69 | 108.13 | 108.13 | 108.13 | 108.13 |
| 261840 | 2.9 | 2.9 | 2.9 | 2.9 | 5.08 | 5.07 | 5.07 | 5.07 | 6.17 | 6.17 | 6.17 | 6.17 | 6.77 | 6.77 | 6.77 | 6.77 | 9.6 | 9.6 | 9.6 | 9.6 |
| 261850 | 18.67 | 18.67 | 18.67 | 18.67 | 38.16 | 38.16 | 38.16 | 38.16 | 47.82 | 47.82 | 47.82 | 47.82 | 52.5 | 52.5 | 52.5 | 52.5 | 75.86 | 75.86 | 75.86 | 75.86 |
| 261860 | 8.63 | 8.63 | 8.63 | 8.63 | 16.23 | 16.23 | 16.23 | 16.23 | 20.38 | 20.38 | 20.38 | 20.38 | 22.49 | 22.49 | 22.49 | 22.49 | 26.08 | 26.08 | 26.08 | 26.08 |
| 261870 | 13.81 | 13.81 | 13.81 | 13.81 | 28.64 | 28.64 | 28.64 | 28.64 | 37.05 | 37.05 | 37.05 | 37.05 | 41.24 | 41.24 | 41.24 | 41.24 | 63.19 | 63.19 | 63.19 | 63.19 |
| 261880 | 3.69 | 3.69 | 3.69 | 3.69 | 8.83 | 8.83 | 8.83 | 8.83 | 11.57 | 11.57 | 11.57 | 11.57 | 12.67 | 12.67 | 12.67 | 12.67 | 16.57 | 16.57 | 16.57 | 16.57 |
| 261890 | 14.27 | 14.27 | 14.27 | 14.27 | 28.86 | 28.86 | 28.86 | 28.86 | 37.11 | 37.11 | 37.11 | 37.11 | 41.22 | 41.22 | 41.22 | 41.22 | 62.76 | 62.76 | 62.76 | 62.76 |
| 261900 | 21.18 | 21.2 | 21.2 | 21.2 | 24.25 | 24.25 | 24.25 | 24.25 | 22.04 | 22.04 | 22.04 | 22.04 | 20.91 | 20.91 | 20.91 | 20.91 | 18.81 | 18.81 | 18.81 | 18.81 |
| 261910 | 28.86 | 28.88 | 28.88 | 28.88 | 39.04 | 39.03 | 39.03 | 39.03 | 39.14 | 39.14 | 39.14 | 39.14 | 38.42 | 38.42 | 38.42 | 38.42 | 50.3 | 50.3 | 50.3 | 50.3 |
| 261920 | 14.01 | 14.01 | 14.01 | 14.01 | 22.76 | 22.75 | 22.75 | 22.75 | 23.52 | 23.52 | 23.52 | 23.52 | 23.66 | 23.66 | 23.66 | 23.66 | 23.34 | 23.34 | 23.34 | 23.34 |
| 261930 | 21.22 | 21.22 | 21.22 | 21.22 | 37.71 | 37.71 | 37.71 | 37.71 | 43.24 | 43.24 | 43.24 | 43.24 | 44.79 | 44.79 | 44.79 | 44.79 | 50.5 | 50.5 | 50.5 | 50.5 |
| 261940 | 38.35 | 38.35 | 38.35 | 38.35 | 69.05 | 69.05 | 69.05 | 69.05 | 83.09 | 83.09 | 83.09 | 83.09 | 89.93 | 89.93 | 89.93 | 89.93 | 126.75 | 126.75 | 126.75 | 126.75 |
| 261950 | 3.01 | 3.01 | 3.01 | 3.01 | 5.06 | 5.06 | 5.06 | 5.06 | 6.36 | 6.36 | 6.36 | 6.36 | 6.8 | 6.8 | 6.8 | 6.8 | 7.97 | 7.97 | 7.97 | 7.97 |
| 261960 | 8.18 | 8.18 | 8.18 | 8.18 | 15.23 | 15.23 | 15.23 | 15.23 | 19.32 | 19.32 | 19.32 | 19.32 | 21.67 | 21.67 | 21.67 | 21.67 | 32.44 | 32.44 | 32.44 | 32.44 |
| 261970 | 7.32 | 7.32 | 7.32 | 7.32 | 13.08 | 13.08 | 13.08 | 13.08 | 16.37 | 16.37 | 16.37 | 16.37 | 18.01 | 18.01 | 18.01 | 18.01 | 26.71 | 26.71 | 26.71 | 26.71 |
| 261980 | 29.7 | 29.72 | 29.72 | 29.72 | 67.58 | 67.58 | 67.58 | 67.58 | 77.52 | 77.52 | 77.52 | 77.52 | 79.18 | 79.18 | 79.18 | 79.18 | 113.43 | 113.43 | 113.43 | 113.43 |
| 261990 | 13.25 | 13.25 | 13.25 | 13.25 | 24.23 | 24.23 | 24.23 | 24.23 | 30.44 | 30.44 | 30.44 | 30.44 | 33.55 | 33.55 | 33.55 | 33.55 | 49.94 | 49.94 | 49.94 | 49.94 |
| 262000 | 25.67 | 25.68 | 25.68 | 25.68 | 52.12 | 52.15 | 52.15 | 52.15 | 78.62 | 78.62 | 78.62 | 78.62 | 92.51 | 92.51 | 92.51 | 92.51 | 173.92 | 173.92 | 173.92 | 173.92 |
| 262010 | 50.49 | 50.49 | 50.49 | 50.49 | 95.21 | 95.22 | 95.22 | 95.22 | 116.8 | 116.8 | 116.8 | 116.8 | 126.03 | 126.03 | 126.03 | 126.03 | 170.33 | 170.33 | 170.33 | 170.33 |
| 262020 | 40.35 | 40.34 | 40.34 | 40.34 | 76.94 | 76.94 | 76.94 | 76.94 | 95.42 | 95.42 | 95.42 | 95.42 | 104.5 | 104.5 | 104.5 | 104.5 | 152 | 152 | 152 | 152 |
| 262030 | 4.64 | 4.64 | 4.64 | 4.64 | 9.58 | 9.58 | 9.58 | 9.58 | 12.38 | 12.38 | 12.38 | 12.38 | 13.77 | 13.77 | 13.77 | 13.77 | 21.07 | 21.07 | 21.07 | 21.07 |
| 262040 | 80.29 | 80.29 | 80.29 | 80.29 | 141.54 | 141.54 | 141.54 | 141.54 | 174.95 | 174.95 | 174.95 | 174.95 | 191.43 | 191.43 | 191.43 | 191.43 | 276.65 | 276.65 | 276.65 | 276.65 |
| 262050 | 38.31 | 38.31 | 38.31 | 38.31 | 71.64 | 71.64 | 71.64 | 71.64 | 90.45 | 90.45 | 90.45 | 90.45 | 99.82 | 99.82 | 99.82 | 99.82 | 149.26 | 149.26 | 149.26 | 149.26 |
| 262070 | 21.13 | 21.13 | 21.13 | 21.13 | 39.37 | 39.37 | 39.37 | 39.37 | 49.67 | 49.67 | 49.67 | 49.67 | 54.81 | 54.81 | 54.81 | 54.81 | 81.89 | 81.89 | 81.89 | 81.89 |
| 262080 | 7.81 | 7.81 | 7.81 | 7.81 | 14.66 | 14.66 | 14.66 | 14.66 | 18.52 | 18.52 | 18.52 | 18.52 | 20.45 | 20.45 | 20.45 | 20.45 | 30.6 | 30.6 | 30.6 | 30.6 |
| 262100 | | | | | | | | | | | | | | | | | | | | |

Summary of Flow Results at all Nodes

| Node | 2.33YR24HR | | | | 25YR24HR | | | | 50YR24HR | | | | 100YR24HR | | | | 500YR24HR | | | |
|--------|-----------------------|---------------------------------|-----------------------|-----------------------------|-----------------------|---------------------------------|-----------------------|-----------------------------|-----------------------|---------------------------------|-----------------------|-----------------------------|-----------------------|---------------------------------|-----------------------|-----------------------------|-----------------------|---------------------------------|-----------------------|-----------------------------|
| | Effective Model (cfs) | Corrected Effective Model (cfs) | Proposed Bridge (cfs) | Proposed Box Culverts (cfs) | Effective Model (cfs) | Corrected Effective Model (cfs) | Proposed Bridge (cfs) | Proposed Box Culverts (cfs) | Effective Model (cfs) | Corrected Effective Model (cfs) | Proposed Bridge (cfs) | Proposed Box Culverts (cfs) | Effective Model (cfs) | Corrected Effective Model (cfs) | Proposed Bridge (cfs) | Proposed Box Culverts (cfs) | Effective Model (cfs) | Corrected Effective Model (cfs) | Proposed Bridge (cfs) | Proposed Box Culverts (cfs) |
| 262695 | 24.31 | 24.31 | 24.31 | 24.31 | 45.15 | 45.15 | 45.15 | 45.15 | 56.93 | 56.93 | 56.93 | 56.93 | 62.8 | 62.8 | 62.8 | 62.8 | 93.77 | 93.77 | 93.77 | 93.77 |
| 262700 | 21.41 | 21.42 | 21.42 | 21.42 | 22.95 | 22.96 | 22.96 | 22.96 | 19.1 | 19.1 | 19.1 | 19.1 | 24.13 | 24.13 | 24.13 | 24.13 | 55.34 | 55.34 | 55.34 | 55.34 |
| 262710 | 61.42 | 61.42 | 61.42 | 61.42 | 104.16 | 104.17 | 104.17 | 104.17 | 131.36 | 131.36 | 131.36 | 131.36 | 140.97 | 140.97 | 140.97 | 140.97 | 217.83 | 217.83 | 217.83 | 217.83 |
| 262720 | 33.16 | 33.16 | 33.16 | 33.16 | 75.09 | 75.09 | 75.09 | 75.09 | 98.36 | 98.36 | 98.36 | 98.36 | 109.77 | 109.77 | 109.77 | 109.77 | 169.72 | 169.72 | 169.72 | 169.72 |
| 262730 | 1.75 | 1.75 | 1.75 | 1.75 | 5.13 | 5.13 | 5.13 | 5.13 | 6.7 | 6.7 | 6.7 | 6.7 | 6.75 | 6.75 | 6.75 | 6.75 | 4.31 | 4.31 | 4.31 | 4.31 |
| 262740 | 6.24 | 6.24 | 6.24 | 6.24 | 11.33 | 11.33 | 11.33 | 11.33 | 14.22 | 14.22 | 14.22 | 14.22 | 15.66 | 15.66 | 15.66 | 15.66 | 33.08 | 33.08 | 33.08 | 33.08 |
| 262750 | 0.89 | 0.89 | 0.89 | 0.89 | 1.93 | 1.94 | 1.94 | 1.94 | 5.61 | 5.61 | 5.61 | 5.61 | 7.08 | 7.08 | 7.08 | 7.08 | 7.21 | 7.21 | 7.21 | 7.21 |
| 262800 | 17.97 | 17.98 | 17.98 | 17.98 | 29.37 | 29.39 | 29.39 | 29.39 | 34.08 | 34.08 | 34.08 | 34.08 | 35.74 | 35.74 | 35.74 | 35.74 | 53.28 | 53.28 | 53.28 | 53.28 |
| 262810 | 14.24 | 14.24 | 14.24 | 14.24 | 21.97 | 21.96 | 21.96 | 21.96 | 24.19 | 24.19 | 24.19 | 24.19 | 26.31 | 26.31 | 26.31 | 26.31 | 75.24 | 75.24 | 75.24 | 75.24 |
| 262820 | 10.38 | 10.38 | 10.38 | 10.38 | 17.17 | 17.17 | 17.17 | 17.17 | 20.26 | 20.26 | 20.26 | 20.26 | 21.62 | 21.62 | 21.62 | 21.62 | 31.53 | 31.53 | 31.53 | 31.53 |
| 262830 | 5.48 | 5.48 | 5.48 | 5.48 | 7.62 | 7.61 | 7.61 | 7.61 | 7.72 | 7.72 | 7.72 | 7.72 | 7.6 | 7.6 | 7.6 | 7.6 | 9.17 | 9.17 | 9.17 | 9.17 |
| 262840 | 15.34 | 15.34 | 15.34 | 15.34 | 31.93 | 31.93 | 31.93 | 31.93 | 41.35 | 41.35 | 41.35 | 41.35 | 46.63 | 46.63 | 46.63 | 46.63 | 74.49 | 74.49 | 74.49 | 74.49 |
| 262850 | 2.89 | 2.89 | 2.89 | 2.89 | 3.79 | 3.79 | 3.79 | 3.79 | 4.28 | 4.28 | 4.28 | 4.28 | 4.99 | 4.99 | 4.99 | 4.99 | 9.71 | 9.71 | 9.71 | 9.71 |
| 262860 | 3.67 | 3.67 | 3.67 | 3.67 | 6.67 | 6.67 | 6.67 | 6.67 | 8.38 | 8.38 | 8.38 | 8.38 | 9.23 | 9.23 | 9.23 | 9.23 | 15.49 | 15.49 | 15.49 | 15.49 |
| 262900 | 33.17 | 33.17 | 33.17 | 33.17 | 48.18 | 48.16 | 48.16 | 48.16 | 50.39 | 50.39 | 50.39 | 50.39 | 53.03 | 53.03 | 53.03 | 53.03 | 61.45 | 61.45 | 61.45 | 61.45 |
| 262910 | 66.08 | 66.08 | 66.08 | 66.08 | 120.13 | 120.13 | 120.13 | 120.13 | 157.58 | 157.58 | 157.58 | 157.58 | 175.65 | 175.65 | 175.65 | 175.65 | 287.23 | 287.23 | 287.23 | 287.23 |
| 262920 | 11.3 | 11.3 | 11.3 | 11.3 | 25.23 | 25.23 | 25.23 | 25.23 | 29.52 | 29.52 | 29.52 | 29.52 | 31.45 | 31.45 | 31.45 | 31.45 | 33.24 | 33.24 | 33.24 | 33.24 |
| 262930 | 25.77 | 25.77 | 25.77 | 25.77 | 53.53 | 53.53 | 53.53 | 53.53 | 70.5 | 70.5 | 70.5 | 70.5 | 78.75 | 78.75 | 78.75 | 78.75 | 118.45 | 118.45 | 118.45 | 118.45 |
| 262940 | 3.04 | 3.04 | 3.04 | 3.04 | 10.96 | 10.96 | 10.96 | 10.96 | 15.08 | 15.08 | 15.08 | 15.08 | 16.76 | 16.76 | 16.76 | 16.76 | 21.54 | 21.54 | 21.54 | 21.54 |
| 262950 | 15.32 | 15.32 | 15.32 | 15.32 | 28.83 | 28.83 | 28.83 | 28.83 | 36.44 | 36.44 | 36.44 | 36.44 | 40.24 | 40.24 | 40.24 | 40.24 | 60.24 | 60.24 | 60.24 | 60.24 |
| 262960 | 15.27 | 15.27 | 15.27 | 15.27 | 31.36 | 31.36 | 31.36 | 31.36 | 40.47 | 40.47 | 40.47 | 40.47 | 45.01 | 45.01 | 45.01 | 45.01 | 68.8 | 68.8 | 68.8 | 68.8 |
| 262970 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.36 | 0.36 | 0.36 | 0.36 | 0.69 | 0.69 | 0.69 | 0.69 | 2.88 | 2.88 | 2.88 | 2.88 |
| 262980 | 16.49 | 16.49 | 16.49 | 16.49 | 32.71 | 32.71 | 32.71 | 32.71 | 41.67 | 41.67 | 41.67 | 41.67 | 45.97 | 45.97 | 45.97 | 45.97 | 65.83 | 65.83 | 65.83 | 65.83 |
| 263000 | 6.47 | 6.47 | 6.47 | 6.47 | 13.48 | 13.47 | 13.47 | 13.47 | 14.99 | 14.99 | 14.99 | 14.99 | 15.41 | 15.41 | 15.41 | 15.41 | 18.42 | 18.42 | 18.42 | 18.42 |
| 263010 | 45.28 | 45.28 | 45.28 | 45.28 | 82.31 | 82.31 | 82.31 | 82.31 | 103.32 | 103.32 | 103.32 | 103.32 | 113.81 | 113.81 | 113.81 | 113.81 | 169.26 | 169.26 | 169.26 | 169.26 |
| 263020 | 0.81 | 0.81 | 0.81 | 0.81 | 5.52 | 5.52 | 5.52 | 5.52 | 7.19 | 7.19 | 7.19 | 7.19 | 7.68 | 7.68 | 7.68 | 7.68 | 8.65 | 8.65 | 8.65 | 8.65 |
| 263030 | 8.13 | 8.13 | 8.13 | 8.13 | 14.67 | 14.67 | 14.67 | 14.67 | 18.39 | 18.39 | 18.39 | 18.39 | 20.25 | 20.25 | 20.25 | 20.25 | 30.07 | 30.07 | 30.07 | 30.07 |
| 263040 | 13.85 | 13.85 | 13.85 | 13.85 | 25.34 | 25.34 | 25.34 | 25.34 | 31.85 | 31.85 | 31.85 | 31.85 | 35.09 | 35.09 | 35.09 | 35.09 | 52.25 | 52.25 | 52.25 | 52.25 |
| 263050 | 26.28 | 26.28 | 26.28 | 26.28 | 47.89 | 47.89 | 47.89 | 47.89 | 60.15 | 60.15 | 60.15 | 60.15 | 66.26 | 66.26 | 66.26 | 66.26 | 98.6 | 98.6 | 98.6 | 98.6 |
| 263060 | 7.52 | 7.52 | 7.52 | 7.52 | 14.79 | 14.79 | 14.79 | 14.79 | 16.54 | 16.54 | 16.54 | 16.54 | 17.22 | 17.22 | 17.22 | 17.22 | 21.5 | 21.5 | 21.5 | 21.5 |
| 263070 | 8.83 | 8.83 | 8.83 | 8.83 | 16.77 | 16.77 | 16.77 | 16.77 | 21.25 | 21.25 | 21.25 | 21.25 | 23.48 | 23.48 | 23.48 | 23.48 | 35.22 | 35.22 | 35.22 | 35.22 |
| 263100 | 438.61 | 438.68 | 438.68 | 438.68 | 808.16 | 808.34 | 808.34 | 808.34 | 991.73 | 991.73 | 991.73 | 991.73 | 1079.09 | 1079.09 | 1079.09 | 1079.09 | 1515.79 | 1515.79 | 1515.79 | 1515.79 |
| 263110 | 127.14 | 127.2 | 127.2 | 127.2 | 236.5 | 236.6 | 236.6 | 236.6 | 271.34 | 271.34 | 271.34 | 271.34 | 285.27 | 285.27 | 285.27 | 285.27 | 332.75 | 332.75 | 332.75 | 332.75 |
| 263120 | 148.39 | 148.39 | 148.39 | 148.39 | 239.45 | 239.52 | 239.52 | 239.52 | 275.91 | 275.91 | 275.91 | 275.91 | 290.88 | 290.88 | 290.88 | 290.88 | 341.82 | 341.82 | 341.81 | 341.81 |
| 263130 | 86.82 | 86.86 | 86.86 | 86.86 | 158.98 | 159.01 | 159.01 | 159.01 | 173.76 | 173.76 | 173.76 | 173.76 | 178.43 | 178.43 | 178.43 | 178.43 | 216.64 | 216.64 | 216.63 | 216.63 |
| 263140 | 46.79 | 46.79 | 46.79 | 46.79 | 85.91 | 85.91 | 85.91 | 85.91 | 108.06 | 108.06 | 108.06 | 108.06 | 119.11 | 119.11 | 119.11 | 119.11 | 177.47 | 177.47 | 177.47 | 177.47 |
| 263150 | 1.93 | 1.93 | 1.93 | 1.93 | 6.09 | 6.09 | 6.09 | 6.09 | 7.2 | 7.2 | 7.2 | 7.2 | 7.55 | 7.55 | 7.55 | 7.55 | 9.51 | 9.51 | 9.51 | 9.51 |
| 263160 | 6.32 | 6.32 | 6.32 | 6.32 | 12.92 | 12.92 | 12.92 | 12.92 | 15.75 | 15.75 | 15.75 | 15.75 | 17.17 | 17.17 | 17.17 | 17.17 | 23.98 | 23.98 | 23.98 | 23.98 |
| 263170 | 6.39 | 6.39 | 6.39 | 6.39 | 12.15 | 12.15 | 12.15 | 12.15 | 15.39 | 15.39 | 15.39 | 15.39 | 17.01 | 17.01 | 17.01 | 17.01 | 25.52 | 25.52 | 25.52 | 25.52 |
| 263180 | 6.52 | 6.52 | 6.52 | 6.52 | 15.27 | 15.28 | 15.28 | 15.28 | 18.55 | 18.55 | 18.55 | 18.55 | 18.99 | 18.99 | 18.99 | 18.99 | 21.79 | 21.79 | 21.79 | 21.79 |
| 263190 | 74.51 | 74.51 | 74.51 | 74.51 | 139.35 | 139.35 | 139.35 | 139.35 | 175.97 | 175.97 | 175.97 | 175.97 | 194.21 | 194.21 | 194.21 | 194.21 | 290.45 | 290.45 | 290.45 | 290.45 |
| 263200 | 44.5 | 44.5 | 44.5 | 44.5 | 71.18 | 71.18 | 71.18 | 71.18 | 91.69 | 91.69 | 91.69 | 91.69 | 104.49 | 104.49 | 104.49 | 104.49 | 151 | 151 | 151 | 151 |
| 263210 | 59.69 | 59.68 | 59.68 | 59.68 | 117.71 | 117.71 | 117.71 | 117.71 | 141.62 | 141.62 | 141.62 | 141.62 | 153.48 | 153.48 | 153.48 | 153.48 | 200.06 | 200.06 | 200.06 | 200.06 |
| 263220 | 39.15 | 39.15 | 39.15 | 39.15 | 103.08 | 103.09 | 103.09 | 103.09 | 151.53 | 151.53 | 151.53 | 151.53 | 173.72 | 173.72 | 173.72 | 173.72 | 283 | 283 | 283 | 283 |
| 263230 | 35.71 | 35.71 | 35.71 | 35.71 | 79.01 | 79.01 | 79.01 | 79.01 | 107.18 | 107.18 | 107.18 | 107.18 | 122.58 | 122.58 | 122.58 | 122.58 | 205.88 | 205.88 | 205.89 | 205.89 |
| 263240 | 25.29 | 25.28 | 25.28 | 25.28 | 53.54 | 53.54 | 53.54 | 53.54 | 69.59 | 69.59 | 69.59 | 69.59 | 76.28 | 76.28 | 76.28 | 76.28 | 108.69 | 108.69 | 108.69 | 108.69 |
| 263250 | 17.25 | 17.25 | 17.25 | 17.25 | 44.62 | 44.62 | 44.62 | 44.62 | 66.17 | 66.17 | 66.17 | 66.17 | 78.19 | 78.19 | 78.19 | 78.19 | 141.62 | 141.62 | 141.62 | 141.62 |
| 263260 | 8.32 | 8.32 | 8.32 | 8.32 | 29 | 29 | 29 | 29 | 43.03 | 43.03 | 43.03 | 43.03 | 49.39 | 49.39 | 49.39 | 49.39 | 82.54 | 82.54 | 82.54 | 82.54 |
| 263270 | 19.03 | 19.03 | 19.03 | 19.03 | 40.45 | 40.45 | 40.45 | 40.45 | 52.02 | 52.02 | 52.02 | 52.02 | 57.74 | 57.74 | 57.74 | 57.74 | 94.44 | 94.44 | 94.44 | 94.44 |
| 263280 | 11.59 | 11.59 | 11.59 | 11.59 | 24.6 | 24.6 | 24.6 | 24.6 | 32.33 | 32.33 | 32.33 | 32.33 | 36.15 | 36.15 | 36.15 | 36.15 | 56.65 | 56.65 | 56.65 | 56.65 |
| 263290 | 30.25 | 30.25 | 30.25 | 30.25 | 57.98 | 57.98 | 57.98 | 57.98 | 74.4 | 74.4 | 74.4 | 74.4 | 82.64 | 82.64 | 82.64 | 82.64 | 125.07 | 125.07 | 125.07 | 125.07 |
| 263300 | 7.33 | 7.33 | 7.33 | 7.33 | 7.79 | 7.79 | 7.79 | 7.79 | 8.18 | 8.18 | 8.18 | 8.18 | 8.49 | 8.49 | 8.49 | 8.49 | 9.61 | 9.61 | 9.61 | 9.61 |
| 263310 | 39.45 | 39.45 | 39.45 | 39.45 | 74.65 | 74.65 | 74.65 | 74.65 | 103.7 | 103.7 | 103.7 | 103.7 | 117.32 | 117.32 | 117.32 | 117.32 | 162.47 | 162.47 | 162.47 | 162.47 |
| 263320 | 15.55 | 15.55 | 15.55 | 15.55 | 23.85 | 23.85 | 23.85 | 23.85 | 25.73 | 25.73 | 25.73 | 25.73 | 26.41 | 26.41 | 26.41 | 26.41 | 28.88 | 28.88 | 28.88 | 28.88 |
| 263330 | 17.76 | 17.76 | 17.76 | 17.76 | 33.85 | 33.85 | 33.85 | 33.85 | 42.92 | 42.92 | 42.92 | 42.92 | 47.43 | 47.43 | 47.43 | 47.43 | 71.21 | 71.21 | 71.21 | 71.21 |
| 263400 | 35.28 | 35.31 | 35.31 | 35.31 | 66.64 | 66.64 | 66.64 | 66.64 | 82.23 | 82.23 | 82.23 | 82.23 | 91.22 | 91.22 | | | | | | |

Summary of Flow Results at all Nodes

| Node | 2.33YR24HR | | | | 25YR24HR | | | | 50YR24HR | | | | 100YR24HR | | | | 500YR24HR | | | |
|--------|-----------------------|---------------------------------|-----------------------|-----------------------------|-----------------------|---------------------------------|-----------------------|-----------------------------|-----------------------|---------------------------------|-----------------------|-----------------------------|-----------------------|---------------------------------|-----------------------|-----------------------------|-----------------------|---------------------------------|-----------------------|-----------------------------|
| | Effective Model (cfs) | Corrected Effective Model (cfs) | Proposed Bridge (cfs) | Proposed Box Culverts (cfs) | Effective Model (cfs) | Corrected Effective Model (cfs) | Proposed Bridge (cfs) | Proposed Box Culverts (cfs) | Effective Model (cfs) | Corrected Effective Model (cfs) | Proposed Bridge (cfs) | Proposed Box Culverts (cfs) | Effective Model (cfs) | Corrected Effective Model (cfs) | Proposed Bridge (cfs) | Proposed Box Culverts (cfs) | Effective Model (cfs) | Corrected Effective Model (cfs) | Proposed Bridge (cfs) | Proposed Box Culverts (cfs) |
| 263810 | 14.24 | 14.24 | 14.24 | 14.24 | 26.64 | 26.64 | 26.64 | 26.64 | 33.64 | 33.64 | 33.64 | 33.64 | 37.13 | 37.13 | 37.13 | 37.13 | 55.52 | 55.52 | 55.52 | 55.52 |
| 263815 | 1.53 | 1.53 | 1.53 | 1.53 | 1.96 | 1.96 | 1.96 | 1.96 | 1.94 | 1.94 | 1.94 | 1.94 | 2.05 | 2.05 | 2.05 | 2.05 | 1.99 | 1.99 | 1.99 | 1.99 |
| 263820 | 33.16 | 33.16 | 33.16 | 33.16 | 63.41 | 63.41 | 63.41 | 63.41 | 80.59 | 80.59 | 80.59 | 80.59 | 88.94 | 88.94 | 88.94 | 88.94 | 137.96 | 137.96 | 137.96 | 137.96 |
| 263830 | 1.9 | 1.9 | 1.9 | 1.9 | 4.71 | 4.71 | 4.71 | 4.71 | 6.95 | 6.95 | 6.95 | 6.95 | 9.23 | 9.23 | 9.23 | 9.23 | 15.48 | 15.48 | 15.48 | 15.48 |
| 263840 | 30.08 | 30.08 | 30.08 | 30.08 | 55.99 | 55.99 | 55.99 | 55.99 | 70.63 | 70.63 | 70.63 | 70.63 | 77.92 | 77.92 | 77.92 | 77.92 | 116.4 | 116.4 | 116.4 | 116.4 |
| 263850 | 12.57 | 12.56 | 12.56 | 12.56 | 10.79 | 10.78 | 10.78 | 10.78 | 16.1 | 16.09 | 16.08 | 16.1 | 17.11 | 17.03 | 17.12 | 17.06 | 19.8 | 19.74 | 19.8 | 19.88 |
| 263860 | 18.47 | 18.47 | 18.47 | 18.47 | 40.39 | 40.39 | 40.39 | 40.39 | 52.97 | 52.97 | 52.97 | 52.97 | 59.24 | 59.24 | 59.24 | 59.24 | 92.2 | 92.2 | 92.2 | 92.2 |
| 263870 | 44.96 | 44.96 | 44.96 | 44.96 | 86.3 | 86.3 | 86.3 | 86.3 | 109.61 | 109.61 | 109.61 | 109.61 | 121.22 | 121.22 | 121.22 | 121.22 | 182.31 | 182.31 | 182.31 | 182.31 |
| 263900 | 7.55 | 7.49 | 7.49 | 7.49 | 7.55 | 7.49 | 7.49 | 7.49 | 7.49 | 7.49 | 7.49 | 7.49 | 7.49 | 7.49 | 7.49 | 7.49 | 9.84 | 9.84 | 9.84 | 9.84 |
| 263910 | 13.44 | 13.23 | 13.23 | 13.23 | 13.44 | 13.23 | 13.23 | 13.23 | 13.23 | 13.23 | 13.23 | 13.23 | 13.23 | 13.23 | 13.23 | 13.23 | 13.23 | 13.23 | 13.23 | 13.23 |
| 263920 | 1.28 | 1.28 | 1.28 | 1.28 | 1.63 | 1.63 | 1.63 | 1.63 | 1.9 | 1.9 | 1.9 | 1.9 | 2.02 | 2.02 | 2.02 | 2.02 | 4.98 | 4.98 | 4.98 | 4.98 |
| 263930 | 36.28 | 36.28 | 36.28 | 36.28 | 68.42 | 68.42 | 68.42 | 68.42 | 86.56 | 86.56 | 86.56 | 86.56 | 95.6 | 95.6 | 95.6 | 95.6 | 143.23 | 143.23 | 143.23 | 143.23 |
| 263940 | 1.6 | 1.6 | 1.6 | 1.6 | 3.27 | 3.27 | 3.27 | 3.27 | 4.2 | 4.2 | 4.2 | 4.2 | 4.61 | 4.61 | 4.61 | 4.61 | 5.83 | 5.83 | 5.83 | 5.83 |
| 263950 | 11.1 | 11.1 | 11.1 | 11.1 | 20.25 | 20.25 | 20.25 | 20.25 | 25.43 | 25.43 | 25.43 | 25.43 | 28.03 | 28.03 | 28.03 | 28.03 | 41.79 | 41.79 | 41.79 | 41.79 |
| 263960 | 0.62 | 0.62 | 0.62 | 0.62 | 1.01 | 1.01 | 1.01 | 1.01 | 1.19 | 1.19 | 1.19 | 1.19 | 1.27 | 1.27 | 1.27 | 1.27 | 1.65 | 1.65 | 1.65 | 1.65 |
| 263970 | 1.75 | 1.79 | 1.79 | 1.79 | 1.75 | 1.79 | 1.79 | 1.79 | 2.11 | 2.11 | 2.11 | 2.11 | 3.64 | 3.64 | 3.64 | 3.64 | 8.03 | 8.03 | 8.03 | 8.03 |
| 263980 | 11.06 | 11.06 | 11.06 | 11.06 | 24.9 | 24.9 | 24.9 | 24.9 | 32.03 | 32.03 | 32.03 | 32.03 | 35.36 | 35.36 | 35.36 | 35.36 | 53.41 | 53.41 | 53.41 | 53.41 |
| 263990 | 9.09 | 9.09 | 9.09 | 9.09 | 11.1 | 11.1 | 11.1 | 11.1 | 12.44 | 12.44 | 12.44 | 12.44 | 13.72 | 13.72 | 13.72 | 13.72 | 20.5 | 20.5 | 20.5 | 20.5 |
| 264000 | 0.04 | 0.04 | 0.04 | 0.04 | 0.55 | 0.55 | 0.55 | 0.55 | 0.71 | 0.71 | 0.71 | 0.71 | 0.77 | 0.77 | 0.77 | 0.77 | 4.47 | 4.47 | 4.47 | 4.47 |
| 264010 | 25.83 | 25.83 | 25.83 | 25.83 | 46.69 | 46.69 | 46.69 | 46.69 | 58.55 | 58.55 | 58.55 | 58.55 | 64.47 | 64.47 | 64.47 | 64.47 | 95.79 | 95.79 | 95.79 | 95.79 |
| 264020 | 5.52 | 5.52 | 5.52 | 5.52 | 7.3 | 7.3 | 7.3 | 7.3 | 9.17 | 9.17 | 9.17 | 9.17 | 10.1 | 10.1 | 10.1 | 10.1 | 15.03 | 15.03 | 15.03 | 15.03 |
| 264100 | 18.5 | 18.5 | 18.5 | 18.5 | 36.21 | 36.2 | 36.2 | 36.2 | 38.38 | 38.38 | 38.38 | 38.38 | 38.06 | 38.06 | 38.06 | 38.06 | 24.8 | 24.8 | 24.8 | 24.8 |
| 264110 | 99.14 | 99.14 | 99.14 | 99.14 | 184.33 | 184.33 | 184.33 | 184.33 | 232.46 | 232.46 | 232.46 | 232.46 | 256.45 | 256.45 | 256.45 | 256.45 | 383.02 | 383.02 | 383.02 | 383.02 |
| 264120 | 5.23 | 5.23 | 5.23 | 5.23 | 11.25 | 11.25 | 11.25 | 11.25 | 14.81 | 14.81 | 14.81 | 14.81 | 16.61 | 16.61 | 16.61 | 16.61 | 28.18 | 28.18 | 28.18 | 28.18 |
| 264130 | 9.94 | 9.94 | 9.94 | 9.94 | 18.76 | 18.76 | 18.76 | 18.76 | 23.73 | 23.73 | 23.73 | 23.73 | 26.21 | 26.21 | 26.21 | 26.21 | 39.26 | 39.26 | 39.26 | 39.26 |
| 264140 | 2.42 | 2.42 | 2.42 | 2.42 | 9.77 | 9.78 | 9.78 | 9.78 | 14.31 | 14.31 | 14.31 | 14.31 | 16.01 | 16.01 | 16.01 | 16.01 | 21.66 | 21.66 | 21.66 | 21.66 |
| 264150 | 22.86 | 22.86 | 22.86 | 22.86 | 41.58 | 41.58 | 41.58 | 41.58 | 52.19 | 52.19 | 52.19 | 52.19 | 57.49 | 57.49 | 57.49 | 57.49 | 85.5 | 85.5 | 85.5 | 85.5 |
| 264160 | 2.77 | 2.77 | 2.77 | 2.77 | 7.82 | 7.82 | 7.82 | 7.82 | 11.33 | 11.33 | 11.33 | 11.33 | 13.02 | 13.02 | 13.02 | 13.02 | 21.74 | 21.74 | 21.74 | 21.74 |
| 264170 | 73.13 | 73.13 | 73.13 | 73.13 | 135.28 | 135.28 | 135.28 | 135.28 | 170.42 | 170.42 | 170.42 | 170.42 | 187.93 | 187.93 | 187.93 | 187.93 | 280.41 | 280.41 | 280.41 | 280.41 |
| 264200 | 43.47 | 43.46 | 43.46 | 43.46 | 73.79 | 73.76 | 73.76 | 73.76 | 84.69 | 84.69 | 84.69 | 84.69 | 88.07 | 88.07 | 88.07 | 88.07 | 151.33 | 151.33 | 151.33 | 151.33 |
| 264208 | 45.97 | 45.97 | 45.97 | 45.97 | 111.32 | 111.31 | 111.31 | 111.31 | 135.7 | 135.7 | 135.7 | 135.7 | 147.28 | 147.28 | 147.28 | 147.28 | 205.85 | 205.85 | 205.85 | 205.85 |
| 264210 | 44.47 | 44.47 | 44.47 | 44.47 | 102.22 | 102.21 | 102.21 | 102.21 | 128.07 | 128.07 | 128.07 | 128.07 | 138.93 | 138.93 | 138.93 | 138.93 | 189.99 | 189.99 | 189.99 | 189.99 |
| 264220 | 52.2 | 52.2 | 52.2 | 52.2 | 124.82 | 124.82 | 124.82 | 124.82 | 156.34 | 156.34 | 156.34 | 156.34 | 173 | 173 | 173 | 173 | 251.74 | 251.74 | 251.74 | 251.74 |
| 264230 | 28.71 | 28.76 | 28.76 | 28.76 | 46.97 | 46.99 | 46.99 | 46.99 | 54.21 | 54.21 | 54.21 | 54.21 | 57.52 | 57.52 | 57.52 | 57.52 | 72.7 | 72.7 | 72.7 | 72.7 |
| 264240 | 25.1 | 25.1 | 25.1 | 25.1 | 47.9 | 47.9 | 47.9 | 47.9 | 60.76 | 60.76 | 60.76 | 60.76 | 67.15 | 67.15 | 67.15 | 67.15 | 100.85 | 100.85 | 100.85 | 100.85 |
| 264250 | 7.83 | 7.84 | 7.84 | 7.84 | 15.47 | 15.48 | 15.48 | 15.48 | 21.5 | 21.5 | 21.5 | 21.5 | 24.49 | 24.49 | 24.49 | 24.49 | 37.35 | 37.35 | 37.35 | 37.35 |
| 264260 | 3.7 | 3.71 | 3.71 | 3.71 | 15.91 | 15.91 | 15.91 | 15.91 | 20.72 | 20.72 | 20.72 | 20.72 | 23.24 | 23.24 | 23.24 | 23.24 | 35.4 | 35.4 | 35.4 | 35.4 |
| 264270 | 48.81 | 48.81 | 48.81 | 48.81 | 92.92 | 92.96 | 92.96 | 92.96 | 118.1 | 118.1 | 118.1 | 118.1 | 129.57 | 129.57 | 129.57 | 129.57 | 190.42 | 190.42 | 190.42 | 190.42 |
| 264280 | 88.42 | 88.42 | 88.42 | 88.42 | 156.95 | 156.95 | 156.95 | 156.95 | 195.52 | 195.52 | 195.52 | 195.52 | 214.68 | 214.68 | 214.68 | 214.68 | 314.94 | 314.94 | 314.94 | 314.94 |
| 264290 | 24.74 | 24.74 | 24.74 | 24.74 | 59.31 | 59.33 | 59.33 | 59.33 | 80.24 | 80.24 | 80.24 | 80.24 | 89.07 | 89.07 | 89.07 | 89.07 | 128.4 | 128.4 | 128.4 | 128.4 |
| 264300 | 5.46 | 5.46 | 5.46 | 5.46 | 11.3 | 11.3 | 11.3 | 11.3 | 14.62 | 14.62 | 14.62 | 14.62 | 16.26 | 16.26 | 16.26 | 16.26 | 24.91 | 24.91 | 24.91 | 24.91 |
| 264310 | 50.63 | 50.63 | 50.63 | 50.63 | 120.32 | 120.32 | 120.32 | 120.32 | 147.63 | 147.63 | 147.63 | 147.63 | 159.75 | 159.75 | 159.75 | 159.75 | 222.07 | 222.07 | 222.07 | 222.07 |
| 264320 | 87.17 | 87.17 | 87.17 | 87.17 | 200.4 | 200.4 | 200.4 | 200.4 | 260.78 | 260.78 | 260.78 | 260.78 | 287.88 | 287.88 | 287.88 | 287.88 | 389.19 | 389.19 | 389.19 | 389.19 |
| 264330 | 88.22 | 88.22 | 88.22 | 88.22 | 199.29 | 199.29 | 199.29 | 199.29 | 251.2 | 251.2 | 251.2 | 251.2 | 272.39 | 272.39 | 272.39 | 272.39 | 361.44 | 361.44 | 361.44 | 361.44 |
| 264340 | 44.42 | 44.42 | 44.42 | 44.42 | 103.69 | 103.69 | 103.69 | 103.69 | 124.84 | 124.84 | 124.84 | 124.84 | 132.96 | 132.96 | 132.96 | 132.96 | 169 | 169 | 169 | 169 |
| 264350 | 295.07 | 295.07 | 295.07 | 295.07 | 549.31 | 549.31 | 549.31 | 549.31 | 693.87 | 693.87 | 693.87 | 693.87 | 766.15 | 766.15 | 766.15 | 766.15 | 1123.86 | 1123.86 | 1123.86 | 1123.86 |
| 264360 | 74.93 | 74.93 | 74.93 | 74.93 | 141.34 | 141.34 | 141.34 | 141.34 | 178.82 | 178.82 | 178.82 | 178.82 | 197.49 | 197.49 | 197.49 | 197.49 | 295.9 | 295.9 | 295.9 | 295.9 |
| 264370 | 21.99 | 21.99 | 21.99 | 21.99 | 42.07 | 42.07 | 42.07 | 42.07 | 53.39 | 53.39 | 53.39 | 53.39 | 59.03 | 59.03 | 59.03 | 59.03 | 88.7 | 88.7 | 88.7 | 88.7 |
| 264380 | 5.86 | 5.86 | 5.86 | 5.86 | 11 | 11 | 11 | 11 | 13.9 | 13.9 | 13.9 | 13.9 | 15.35 | 15.35 | 15.35 | 15.35 | 22.97 | 22.97 | 22.97 | 22.97 |
| 264390 | 1.31 | 1.31 | 1.31 | 1.31 | 2.06 | 2.06 | 2.06 | 2.06 | 2.25 | 2.25 | 2.25 | 2.25 | 2.95 | 2.95 | 2.95 | 2.95 | 13.19 | 13.19 | 13.19 | 13.19 |
| 264395 | 15.72 | 15.72 | 15.72 | 15.72 | 28.89 | 28.89 | 28.89 | 28.89 | 36.34 | 36.34 | 36.34 | 36.34 | 40.06 | 40.06 | 40.06 | 40.06 | 59.69 | 59.69 | 59.69 | 59.69 |
| 264398 | 15.25 | 15.26 | 15.26 | 15.26 | 12.45 | 12.45 | 12.45 | 12.45 | 13.12 | 13.12 | 13.12 | 13.12 | 13.27 | 13.27 | 13.27 | 13.27 | 14.56 | 14.56 | 14.56 | 14.56 |
| 264400 | 45.52 | 45.57 | 45.57 | 45.57 | 73.77 | 73.76 | 73.76 | 73.76 | 86.81 | 86.81 | 86.81 | 86.81 | 93.21 | 93.21 | 93.21 | 93.21 | 125.55 | 125.55 | 125.55 | 125.55 |
| 264410 | 22.64 | 22.64 | 22.64 | 22.64 | 42.92 | 42.92 | 42.92 | 42.92 | 54.37 | 54.37 | 54.37 | 54.37 | 60.06 | 60.06 | 60.06 | 60.06 | 90.09 | 90.09 | 90.09 | 90.09 |
| 264500 | 10.57 | 10.57 | 10.57 | 10.57 | 13.88 | 13.88 | 13.88 | 13.88 | 14.27 | 14.27 | 14.27 | 14.27 | 14.49 | 14.49 | 14.49 | 14.49 | 14.54 | 14.54 | 14.54 | 14.54 |
| 264510 | 75.47 | 75.48 | 75.48 | 75.48 | 132.88 | 132.89 | 132.89 | 132.89 | 163.9 | 163.9 | 163.9 | 163.9 | 180.91 | 180.91 | 180.91 | 180.91 | 274.5 | 274.5 | 27 | |

Summary of Flow Results at all Nodes

| Node | 2.33YR24HR | | | | 25YR24HR | | | | 50YR24HR | | | | 100YR24HR | | | | 500YR24HR | | | |
|--------|-----------------------|---------------------------------|-----------------------|-----------------------------|-----------------------|---------------------------------|-----------------------|-----------------------------|-----------------------|---------------------------------|-----------------------|-----------------------------|-----------------------|---------------------------------|-----------------------|-----------------------------|-----------------------|---------------------------------|-----------------------|-----------------------------|
| | Effective Model (cfs) | Corrected Effective Model (cfs) | Proposed Bridge (cfs) | Proposed Box Culverts (cfs) | Effective Model (cfs) | Corrected Effective Model (cfs) | Proposed Bridge (cfs) | Proposed Box Culverts (cfs) | Effective Model (cfs) | Corrected Effective Model (cfs) | Proposed Bridge (cfs) | Proposed Box Culverts (cfs) | Effective Model (cfs) | Corrected Effective Model (cfs) | Proposed Bridge (cfs) | Proposed Box Culverts (cfs) | Effective Model (cfs) | Corrected Effective Model (cfs) | Proposed Bridge (cfs) | Proposed Box Culverts (cfs) |
| 265020 | 15.69 | 15.69 | 15.69 | 15.69 | 18.5 | 18.5 | 18.5 | 18.5 | 19.53 | 19.53 | 19.53 | 19.53 | 19.93 | 19.93 | 19.93 | 19.93 | 21.68 | 21.68 | 21.68 | 21.68 |
| 265030 | 11.05 | 11.05 | 11.05 | 11.05 | 20.78 | 20.78 | 20.78 | 20.78 | 26.28 | 26.28 | 26.28 | 26.28 | 29.01 | 29.01 | 29.01 | 29.01 | 43.44 | 43.44 | 43.44 | 43.44 |
| 265040 | 18.25 | 18.25 | 18.25 | 18.25 | 34.52 | 34.52 | 34.52 | 34.52 | 43.71 | 43.71 | 43.71 | 43.71 | 48.28 | 48.28 | 48.28 | 48.28 | 72.39 | 72.39 | 72.39 | 72.39 |
| 265050 | 28.18 | 28.18 | 28.18 | 28.18 | 53.08 | 53.08 | 53.08 | 53.08 | 67.14 | 67.14 | 67.14 | 67.14 | 74.14 | 74.14 | 74.14 | 74.14 | 111.03 | 111.03 | 111.03 | 111.03 |
| 265060 | 10.58 | 10.58 | 10.58 | 10.58 | 19.82 | 19.82 | 19.82 | 19.82 | 25.03 | 25.03 | 25.03 | 25.03 | 27.62 | 27.62 | 27.62 | 27.62 | 41.32 | 41.32 | 41.32 | 41.32 |
| 265070 | 13.65 | 13.65 | 13.65 | 13.65 | 25.81 | 25.81 | 25.81 | 25.81 | 32.67 | 32.67 | 32.67 | 32.67 | 36.08 | 36.08 | 36.08 | 36.08 | 54.09 | 54.09 | 54.09 | 54.09 |
| 265100 | 17 | 17.03 | 17.03 | 17.03 | 35.85 | 35.86 | 35.86 | 35.86 | 44 | 44 | 44 | 44 | 47.83 | 47.83 | 47.83 | 47.83 | 64.71 | 64.71 | 64.71 | 64.71 |
| 265110 | 13.56 | 13.56 | 13.56 | 13.56 | 22.29 | 22.29 | 22.29 | 22.29 | 27.05 | 27.05 | 27.05 | 27.05 | 29.43 | 29.43 | 29.43 | 29.43 | 38.37 | 38.37 | 38.37 | 38.37 |
| 265120 | 14.74 | 14.76 | 14.76 | 14.76 | 30.65 | 30.66 | 30.66 | 30.66 | 37.86 | 37.86 | 37.86 | 37.86 | 41.09 | 41.09 | 41.09 | 41.09 | 57.47 | 57.47 | 57.47 | 57.47 |
| 265130 | 8.8 | 8.81 | 8.81 | 8.81 | 11.18 | 11.17 | 11.17 | 11.17 | 11.47 | 11.47 | 11.47 | 11.47 | 11.63 | 11.63 | 11.63 | 11.63 | 12.34 | 12.34 | 12.34 | 12.34 |
| 265140 | 10.75 | 10.75 | 10.75 | 10.75 | 16.57 | 16.53 | 16.53 | 16.53 | 20.76 | 20.76 | 20.76 | 20.76 | 22.63 | 22.63 | 22.63 | 22.63 | 29.93 | 29.93 | 29.93 | 29.93 |
| 265150 | 6.16 | 6.17 | 6.17 | 6.17 | 8.16 | 8.16 | 8.16 | 8.16 | 8.49 | 8.49 | 8.49 | 8.49 | 8.54 | 8.54 | 8.54 | 8.54 | 9.34 | 9.34 | 9.34 | 9.34 |
| 265160 | 8.94 | 8.94 | 8.94 | 8.94 | 16.47 | 16.47 | 16.47 | 16.47 | 20.72 | 20.72 | 20.72 | 20.72 | 22.85 | 22.85 | 22.85 | 22.85 | 34.06 | 34.06 | 34.06 | 34.06 |
| 265170 | 3.52 | 3.52 | 3.52 | 3.52 | 7.98 | 7.98 | 7.98 | 7.98 | 10.19 | 10.19 | 10.19 | 10.19 | 10.9 | 10.9 | 10.9 | 10.9 | 14.46 | 14.46 | 14.46 | 14.46 |
| 265180 | 2.96 | 2.96 | 2.96 | 2.96 | 7.45 | 7.45 | 7.45 | 7.45 | 9.21 | 9.21 | 9.21 | 9.21 | 9.66 | 9.66 | 9.66 | 9.66 | 12.61 | 12.61 | 12.61 | 12.61 |
| 265190 | 1.88 | 1.89 | 1.89 | 1.89 | 6.19 | 6.2 | 6.2 | 6.2 | 8.1 | 8.1 | 8.1 | 8.1 | 9.02 | 9.02 | 9.02 | 9.02 | 12.56 | 12.56 | 12.56 | 12.56 |
| 265200 | 7.33 | 7.32 | 7.32 | 7.32 | 7.96 | 7.97 | 7.97 | 7.97 | 10.52 | 10.52 | 10.52 | 10.52 | 12.01 | 12.01 | 12.01 | 12.01 | 16.86 | 16.86 | 16.86 | 16.86 |
| 265210 | 40.5 | 40.51 | 40.51 | 40.51 | 79.33 | 79.36 | 79.36 | 79.36 | 101.07 | 101.07 | 101.07 | 101.07 | 111.82 | 111.82 | 111.82 | 111.82 | 159.21 | 159.21 | 159.21 | 159.21 |
| 265220 | 17.56 | 17.57 | 17.57 | 17.57 | 32.86 | 32.88 | 32.88 | 32.88 | 41.36 | 41.36 | 41.36 | 41.36 | 44.73 | 44.73 | 44.73 | 44.73 | 53.85 | 53.85 | 53.85 | 53.85 |
| 265230 | 17.65 | 17.65 | 17.65 | 17.65 | 32.99 | 33 | 33 | 33 | 41.49 | 41.49 | 41.49 | 41.49 | 44.88 | 44.88 | 44.88 | 44.88 | 54.07 | 54.07 | 54.07 | 54.07 |
| 265240 | 15.13 | 15.13 | 15.13 | 15.13 | 28.06 | 28.06 | 28.06 | 28.06 | 35.03 | 35.03 | 35.03 | 35.03 | 36.83 | 36.83 | 36.83 | 36.83 | 40.36 | 40.36 | 40.36 | 40.36 |
| 265250 | 26.1 | 26.1 | 26.1 | 26.1 | 47.68 | 47.68 | 47.68 | 47.68 | 59.91 | 59.91 | 59.91 | 59.91 | 66.01 | 66.01 | 66.01 | 66.01 | 98.26 | 98.26 | 98.26 | 98.26 |
| 265260 | 4.88 | 4.88 | 4.88 | 4.88 | 8.07 | 8.07 | 8.07 | 8.07 | 9.52 | 9.52 | 9.52 | 9.52 | 10.31 | 10.31 | 10.31 | 10.31 | 14.66 | 14.66 | 14.66 | 14.66 |
| 265270 | 22.55 | 22.55 | 22.55 | 22.55 | 43.37 | 43.37 | 43.37 | 43.37 | 55.1 | 55.1 | 55.1 | 55.1 | 60.94 | 60.94 | 60.94 | 60.94 | 91.69 | 91.69 | 91.69 | 91.69 |
| 265280 | 6.67 | 6.66 | 6.66 | 6.66 | 10.49 | 10.49 | 10.49 | 10.49 | 12.16 | 12.16 | 12.16 | 12.16 | 12.78 | 12.78 | 12.78 | 12.78 | 14.37 | 14.37 | 14.37 | 14.37 |
| 265290 | 69.67 | 69.67 | 69.67 | 69.67 | 123.69 | 123.68 | 123.68 | 123.68 | 142.84 | 142.84 | 142.84 | 142.84 | 151.52 | 151.52 | 151.52 | 151.52 | 194.34 | 194.34 | 194.34 | 194.34 |
| 265300 | 48.26 | 48.26 | 48.26 | 48.26 | 94.38 | 94.38 | 94.38 | 94.38 | 120.39 | 120.39 | 120.39 | 120.39 | 133.33 | 133.33 | 133.33 | 133.33 | 201.37 | 201.37 | 201.37 | 201.37 |
| 265400 | 27.33 | 27.37 | 27.37 | 27.37 | 73.82 | 73.83 | 73.83 | 73.83 | 100.47 | 100.47 | 100.47 | 100.47 | 114.89 | 114.89 | 114.89 | 114.89 | 192.46 | 192.46 | 192.46 | 192.46 |
| 265410 | 16.07 | 16.07 | 16.07 | 16.07 | 32.94 | 32.94 | 32.94 | 32.94 | 42.56 | 42.56 | 42.56 | 42.56 | 48.65 | 48.65 | 48.65 | 48.65 | 110.75 | 110.75 | 110.75 | 110.75 |
| 265420 | 8.04 | 8.04 | 8.04 | 8.04 | 8.04 | 8.04 | 8.04 | 8.04 | 8.04 | 8.04 | 8.04 | 8.04 | 8.04 | 8.04 | 8.04 | 8.04 | 8.04 | 8.04 | 8.04 | 8.04 |
| 265430 | 0.95 | 0.95 | 0.95 | 0.95 | 2.47 | 2.47 | 2.47 | 2.47 | 3.27 | 3.27 | 3.27 | 3.27 | 3.85 | 3.85 | 3.85 | 3.85 | 7.29 | 7.29 | 7.29 | 7.29 |
| 265440 | 1.58 | 1.58 | 1.58 | 1.58 | 3.59 | 3.59 | 3.59 | 3.59 | 4.76 | 4.76 | 4.76 | 4.76 | 5.34 | 5.34 | 5.34 | 5.34 | 8.4 | 8.4 | 8.4 | 8.4 |
| 265460 | 9.9 | 9.9 | 9.9 | 9.9 | 10.29 | 10.29 | 10.29 | 10.29 | 12.95 | 12.95 | 12.95 | 12.95 | 14.22 | 14.22 | 14.22 | 14.22 | 20.66 | 20.66 | 20.66 | 20.66 |
| 265470 | 1.95 | 1.95 | 1.95 | 1.95 | 4.07 | 4.07 | 4.07 | 4.07 | 5.27 | 5.27 | 5.27 | 5.27 | 5.87 | 5.87 | 5.87 | 5.87 | 9.01 | 9.01 | 9.01 | 9.01 |
| 265480 | 4.17 | 4.17 | 4.17 | 4.17 | 9.26 | 9.26 | 9.26 | 9.26 | 12.19 | 12.19 | 12.19 | 12.19 | 13.65 | 13.65 | 13.65 | 13.65 | 21.3 | 21.3 | 21.3 | 21.3 |
| 265490 | 8.72 | 8.72 | 8.72 | 8.72 | 18.57 | 18.57 | 18.57 | 18.57 | 24.19 | 24.19 | 24.19 | 24.19 | 27 | 27 | 27 | 27 | 47.94 | 47.94 | 47.94 | 47.94 |
| 265500 | 11.98 | 11.98 | 11.98 | 11.98 | 29.42 | 29.42 | 29.42 | 29.42 | 38.78 | 38.78 | 38.78 | 38.78 | 43.26 | 43.26 | 43.26 | 43.26 | 62.38 | 62.38 | 62.38 | 62.38 |
| 265510 | 5.59 | 5.59 | 5.59 | 5.59 | 9.23 | 9.23 | 9.23 | 9.23 | 11.98 | 11.98 | 11.98 | 11.98 | 12.78 | 12.78 | 12.78 | 12.78 | 22.65 | 22.65 | 22.65 | 22.65 |
| 265520 | 6.53 | 6.53 | 6.53 | 6.53 | 10.61 | 10.61 | 10.61 | 10.61 | 13.96 | 13.96 | 13.96 | 13.96 | 15.48 | 15.48 | 15.48 | 15.48 | 18.5 | 18.5 | 18.5 | 18.5 |
| 265530 | 9.57 | 9.57 | 9.57 | 9.57 | 17.98 | 17.98 | 17.98 | 17.98 | 22.72 | 22.72 | 22.72 | 22.72 | 25.08 | 25.08 | 25.08 | 25.08 | 37.54 | 37.54 | 37.54 | 37.54 |
| 265540 | 2.15 | 2.16 | 2.16 | 2.16 | 4.13 | 4.13 | 4.13 | 4.13 | 6.67 | 6.67 | 6.67 | 6.67 | 7.6 | 7.6 | 7.6 | 7.6 | 10.92 | 10.92 | 10.92 | 10.92 |
| 265550 | 6.22 | 6.22 | 6.22 | 6.22 | 10.21 | 10.21 | 10.21 | 10.21 | 11.87 | 11.87 | 11.87 | 11.87 | 12.53 | 12.53 | 12.53 | 12.53 | 15.81 | 15.81 | 15.81 | 15.81 |
| 265560 | 4.25 | 4.25 | 4.25 | 4.25 | 7.78 | 7.78 | 7.78 | 7.78 | 9.78 | 9.78 | 9.78 | 9.78 | 10.78 | 10.78 | 10.78 | 10.78 | 16.05 | 16.05 | 16.05 | 16.05 |
| 265600 | 3.57 | 3.58 | 3.58 | 3.58 | 3.95 | 3.92 | 3.92 | 3.92 | 3.54 | 3.54 | 3.54 | 3.54 | 3.65 | 3.65 | 3.65 | 3.65 | 3.62 | 3.62 | 3.62 | 3.62 |
| 265610 | 18.26 | 18.26 | 18.26 | 18.26 | 22.65 | 22.65 | 22.65 | 22.65 | 28.33 | 28.33 | 28.33 | 28.33 | 31.11 | 31.11 | 31.11 | 31.11 | 38.71 | 38.71 | 38.71 | 38.71 |
| 265620 | 8.54 | 8.54 | 8.54 | 8.54 | 16.33 | 16.33 | 16.33 | 16.33 | 19.65 | 19.65 | 19.65 | 19.65 | 20.34 | 20.34 | 20.34 | 20.34 | 20.23 | 20.23 | 20.23 | 20.23 |
| 265630 | 1.04 | 1.04 | 1.04 | 1.04 | 4.11 | 4.11 | 4.11 | 4.11 | 6.11 | 6.11 | 6.11 | 6.11 | 7.06 | 7.06 | 7.06 | 7.06 | 9.66 | 9.66 | 9.66 | 9.66 |
| 265640 | 8.66 | 8.66 | 8.66 | 8.66 | 16.86 | 16.86 | 16.86 | 16.86 | 21.48 | 21.48 | 21.48 | 21.48 | 23.77 | 23.77 | 23.77 | 23.77 | 37.67 | 37.67 | 37.67 | 37.67 |
| 265650 | 13.35 | 13.34 | 13.34 | 13.34 | 22.67 | 22.66 | 22.66 | 22.66 | 23.98 | 23.98 | 23.98 | 23.98 | 24.81 | 24.81 | 24.81 | 24.81 | 27.1 | 27.1 | 27.1 | 27.1 |
| 265660 | 11.09 | 11.09 | 11.09 | 11.09 | 21.62 | 21.62 | 21.62 | 21.62 | 27.56 | 27.56 | 27.56 | 27.56 | 30.52 | 30.52 | 30.52 | 30.52 | 46.06 | 46.06 | 46.06 | 46.06 |
| 265670 | 3.06 | 3.06 | 3.06 | 3.06 | 3.13 | 3.11 | 3.11 | 3.11 | 3.12 | 3.12 | 3.12 | 3.12 | 3.22 | 3.22 | 3.22 | 3.22 | 5.96 | 5.96 | 5.96 | 5.96 |
| 265680 | 4.66 | 4.66 | 4.66 | 4.66 | 9.62 | 9.62 | 9.62 | 9.62 | 12.44 | 12.44 | 12.44 | 12.44 | 13.84 | 13.84 | 13.84 | 13.84 | 21.18 | 21.18 | 21.18 | 21.18 |
| 265690 | 30.45 | 30.48 | 30.48 | 30.48 | 60.73 | 60.72 | 60.72 | 60.72 | 73.89 | 73.89 | 73.89 | 73.89 | 79.82 | 79.82 | 79.82 | 79.82 | 107.9 | 107.9 | 107.9 | 107.9 |
| 265700 | 10.88 | 10.88 | 10.88 | 10.88 | 19.68 | 19.66 | 19.66 | 19.66 | 21.68 | 21.68 | 21.68 | 21.68 | 23.04 | 23.04 | 23.04 | 23.04 | 27.15 | 27.15 | 27.15 | 27.15 |
| 265710 | 48.04 | 48.04 | 48.04 | 48.04 | 90.4 | 90.4 | 90.4 | 90.4 | 113.93 | 113.93 | 113.93 | 113.93 | 125.33 | 125.33 | 125.33 | 125.33 | 174.46 | 174.46 | 174.46 | 174.46 |
| 265720 | 26.99 | 26.99 | 26.99 | 26.99 | 52.23 | 52.23 | 52.23 | 52.23 | 66.46 | 66.46 | 66.46 | 66.46 | 73.54 | 73.54 | 73.54 | 73.54 | 110.8 | 110.8 | 110.8 | 110.8 |
| 265730 | 2.68 | 2.69 | 2.69 | 2.69 | 4.63 | 4.63 | 4.63 | 4.63 | 7.37 | 7.37 | 7.37 | 7.37 | 9.44 | 9.44 | 9.44 | 9.44 | 13.62 | 1 | | |

Summary of Flow Results at all Nodes

| Node | 2.33YR24HR | | | | 25YR24HR | | | | 50YR24HR | | | | 100YR24HR | | | | 500YR24HR | | | |
|--------|-----------------------|---------------------------------|-----------------------|-----------------------------|-----------------------|---------------------------------|-----------------------|-----------------------------|-----------------------|---------------------------------|-----------------------|-----------------------------|-----------------------|---------------------------------|-----------------------|-----------------------------|-----------------------|---------------------------------|-----------------------|-----------------------------|
| | Effective Model (cfs) | Corrected Effective Model (cfs) | Proposed Bridge (cfs) | Proposed Box Culverts (cfs) | Effective Model (cfs) | Corrected Effective Model (cfs) | Proposed Bridge (cfs) | Proposed Box Culverts (cfs) | Effective Model (cfs) | Corrected Effective Model (cfs) | Proposed Bridge (cfs) | Proposed Box Culverts (cfs) | Effective Model (cfs) | Corrected Effective Model (cfs) | Proposed Bridge (cfs) | Proposed Box Culverts (cfs) | Effective Model (cfs) | Corrected Effective Model (cfs) | Proposed Bridge (cfs) | Proposed Box Culverts (cfs) |
| 266300 | 8.58 | 8.58 | 8.58 | 8.58 | 19.91 | 19.91 | 19.91 | 19.91 | 26.65 | 26.65 | 26.65 | 26.65 | 30.01 | 30.01 | 30.01 | 30.01 | 47.47 | 47.47 | 47.47 | 47.47 |
| 266310 | 2.41 | 2.41 | 2.41 | 2.41 | 10.5 | 10.5 | 10.5 | 10.5 | 17.26 | 17.26 | 17.26 | 17.26 | 19.36 | 19.36 | 19.36 | 19.36 | 20.53 | 20.53 | 20.53 | 20.53 |
| 266320 | 8.62 | 8.62 | 8.62 | 8.62 | 25.99 | 25.99 | 25.99 | 25.99 | 36.88 | 36.88 | 36.88 | 36.88 | 42.44 | 42.44 | 42.44 | 42.44 | 72.35 | 72.35 | 72.35 | 72.35 |
| 266330 | 6.01 | 6.01 | 6.01 | 6.01 | 11.85 | 11.85 | 11.85 | 11.85 | 15.15 | 15.15 | 15.15 | 15.15 | 16.79 | 16.79 | 16.79 | 16.79 | 25.41 | 25.41 | 25.41 | 25.41 |
| 266340 | 16.79 | 16.79 | 16.79 | 16.79 | 32.38 | 32.38 | 32.38 | 32.38 | 41.17 | 41.17 | 41.17 | 41.17 | 45.54 | 45.54 | 45.54 | 45.54 | 68.55 | 68.55 | 68.55 | 68.55 |
| 266350 | 4.44 | 4.44 | 4.44 | 4.44 | 6.46 | 6.45 | 6.45 | 6.45 | 6.46 | 6.46 | 6.46 | 6.46 | 6.59 | 6.59 | 6.59 | 6.59 | 6.57 | 6.57 | 6.57 | 6.57 |
| 266360 | 4.32 | 4.32 | 4.32 | 4.32 | 11.07 | 11.07 | 11.07 | 11.07 | 14.99 | 14.99 | 14.99 | 14.99 | 16.88 | 16.88 | 16.88 | 16.88 | 25.86 | 25.86 | 25.86 | 25.86 |
| 266370 | 5.25 | 5.25 | 5.25 | 5.25 | 11.75 | 11.75 | 11.75 | 11.75 | 15.5 | 15.5 | 15.5 | 15.5 | 17.36 | 17.36 | 17.36 | 17.36 | 27.17 | 27.17 | 27.17 | 27.17 |
| 266400 | 19.2 | 19.2 | 19.2 | 19.2 | 42.75 | 42.75 | 42.75 | 42.75 | 56.33 | 56.33 | 56.33 | 56.33 | 63.11 | 63.11 | 63.11 | 63.11 | 98.72 | 98.72 | 98.72 | 98.72 |
| 266410 | 6.28 | 6.28 | 6.28 | 6.28 | 34.91 | 34.91 | 34.91 | 34.91 | 49.43 | 49.43 | 49.43 | 49.43 | 57.14 | 57.14 | 57.14 | 57.14 | 88.78 | 88.78 | 88.78 | 88.78 |
| 266420 | 3.12 | 3.12 | 3.12 | 3.12 | 6.74 | 6.74 | 6.74 | 6.74 | 8.81 | 8.81 | 8.81 | 8.81 | 9.83 | 9.83 | 9.83 | 9.83 | 15.24 | 15.24 | 15.24 | 15.24 |
| 266430 | 10.83 | 10.83 | 10.83 | 10.83 | 23.48 | 23.48 | 23.48 | 23.48 | 30.71 | 30.71 | 30.71 | 30.71 | 34.31 | 34.31 | 34.31 | 34.31 | 53.21 | 53.21 | 53.21 | 53.21 |
| 266440 | 6.76 | 6.76 | 6.76 | 6.76 | 14.67 | 14.67 | 14.67 | 14.67 | 19.2 | 19.2 | 19.2 | 19.2 | 21.45 | 21.45 | 21.45 | 21.45 | 33.27 | 33.27 | 33.27 | 33.27 |
| 266450 | 6.11 | 6.11 | 6.11 | 6.11 | 14.29 | 14.29 | 14.29 | 14.29 | 19.08 | 19.08 | 19.08 | 19.08 | 21.48 | 21.48 | 21.48 | 21.48 | 34.16 | 34.16 | 34.16 | 34.16 |
| 266460 | 9.31 | 9.31 | 9.31 | 9.31 | 20.11 | 20.11 | 20.11 | 20.11 | 26.29 | 26.29 | 26.29 | 26.29 | 29.36 | 29.36 | 29.36 | 29.36 | 45.49 | 45.49 | 45.49 | 45.49 |
| 266500 | 16.33 | 16.33 | 16.33 | 16.33 | 29.93 | 29.93 | 29.93 | 29.93 | 37.64 | 37.64 | 37.64 | 37.64 | 41.48 | 41.48 | 41.48 | 41.48 | 61.78 | 61.78 | 61.78 | 61.78 |
| 266510 | 2.08 | 2.08 | 2.08 | 2.08 | 7.42 | 7.42 | 7.42 | 7.42 | 11.77 | 11.77 | 11.77 | 11.77 | 13.6 | 13.6 | 13.6 | 13.6 | 21.92 | 21.92 | 21.92 | 21.92 |
| 266520 | 17.02 | 17.02 | 17.02 | 17.02 | 31.66 | 31.66 | 31.66 | 31.66 | 39.94 | 39.94 | 39.94 | 39.94 | 44.06 | 44.06 | 44.06 | 44.06 | 65.82 | 65.82 | 65.82 | 65.82 |
| 266600 | 37.41 | 37.41 | 37.41 | 37.41 | 82.06 | 82.06 | 82.06 | 82.06 | 111.22 | 111.22 | 111.22 | 111.22 | 127.41 | 127.41 | 127.41 | 127.41 | 214.07 | 214.07 | 214.07 | 214.07 |
| 266610 | 7.2 | 7.2 | 7.2 | 7.2 | 14.43 | 14.43 | 14.43 | 14.43 | 26.41 | 26.41 | 26.41 | 26.41 | 32.41 | 32.41 | 32.41 | 32.41 | 64.49 | 64.49 | 64.49 | 64.49 |
| 266620 | 42.05 | 42.05 | 42.05 | 42.05 | 79.11 | 79.11 | 79.11 | 79.11 | 100.03 | 100.03 | 100.03 | 100.03 | 110.44 | 110.44 | 110.44 | 110.44 | 165.35 | 165.35 | 165.35 | 165.35 |
| 266630 | 3.06 | 3.06 | 3.06 | 3.06 | 5.64 | 5.64 | 5.64 | 5.64 | 10.51 | 10.51 | 10.51 | 10.51 | 13.08 | 13.08 | 13.08 | 13.08 | 27.43 | 27.43 | 27.43 | 27.43 |
| 266640 | 42.23 | 42.23 | 42.23 | 42.23 | 78.65 | 78.65 | 78.65 | 78.65 | 99.23 | 99.23 | 99.23 | 99.23 | 109.48 | 109.48 | 109.48 | 109.48 | 163.57 | 163.57 | 163.57 | 163.57 |
| 266650 | 28.16 | 28.16 | 28.16 | 28.16 | 60.8 | 60.8 | 60.8 | 60.8 | 79.5 | 79.5 | 79.5 | 79.5 | 88.81 | 88.81 | 88.81 | 88.81 | 137.76 | 137.76 | 137.76 | 137.76 |
| 266700 | 6.21 | 6.21 | 6.21 | 6.21 | 11.81 | 11.81 | 11.81 | 11.81 | 14.07 | 14.07 | 14.07 | 14.07 | 14.67 | 14.67 | 14.67 | 14.67 | 17.69 | 17.69 | 17.69 | 17.69 |
| 266710 | 6.74 | 6.74 | 6.74 | 6.74 | 13.34 | 13.34 | 13.34 | 13.34 | 15.83 | 15.83 | 15.83 | 15.83 | 16.54 | 16.54 | 16.54 | 16.54 | 18.16 | 18.16 | 18.16 | 18.16 |
| 266720 | 8.16 | 8.16 | 8.16 | 8.16 | 19.02 | 19.02 | 19.02 | 19.02 | 27.31 | 27.31 | 27.31 | 27.31 | 32.31 | 32.31 | 32.31 | 32.31 | 57.54 | 57.54 | 57.54 | 57.54 |
| 266730 | 0.36 | 0.36 | 0.36 | 0.36 | 6.28 | 6.28 | 6.28 | 6.28 | 10.12 | 10.12 | 10.12 | 10.12 | 11.7 | 11.7 | 11.7 | 11.7 | 19.04 | 19.04 | 19.04 | 19.04 |
| 266740 | 12.3 | 12.3 | 12.3 | 12.3 | 22.3 | 22.3 | 22.3 | 22.3 | 27.98 | 27.98 | 27.98 | 27.98 | 30.82 | 30.82 | 30.82 | 30.82 | 45.81 | 45.81 | 45.81 | 45.81 |
| 266750 | 0.14 | 0.14 | 0.14 | 0.14 | 0.17 | 0.17 | 0.17 | 0.17 | 0.65 | 0.65 | 0.65 | 0.65 | 1.31 | 1.31 | 1.31 | 1.31 | 4.67 | 4.67 | 4.67 | 4.67 |
| 266760 | 0.35 | 0.35 | 0.35 | 0.35 | 0.35 | 0.35 | 0.35 | 0.35 | 1.24 | 1.24 | 1.24 | 1.24 | 2.61 | 2.61 | 2.61 | 2.61 | 9.4 | 9.4 | 9.4 | 9.4 |
| 266770 | 16.32 | 16.32 | 16.32 | 16.32 | 34.12 | 34.12 | 34.12 | 34.12 | 44.26 | 44.26 | 44.26 | 44.26 | 49.3 | 49.3 | 49.3 | 49.3 | 75.79 | 75.79 | 75.79 | 75.79 |
| 266810 | 206.76 | 206.76 | 206.76 | 206.76 | 370.14 | 370.14 | 370.14 | 370.14 | 463.25 | 463.25 | 463.25 | 463.25 | 509.77 | 509.77 | 509.77 | 509.77 | 756.17 | 756.17 | 756.17 | 756.17 |
| 270005 | 95.75 | 95.76 | 95.76 | 95.76 | 122.87 | 122.95 | 122.95 | 122.95 | 138.02 | 138.16 | 138.16 | 138.16 | 145.23 | 145.37 | 145.37 | 145.37 | 180.22 | 180.33 | 180.33 | 180.33 |
| 270010 | 180.86 | 180.86 | 180.86 | 180.86 | 296.35 | 296.39 | 296.39 | 296.39 | 364.71 | 365.44 | 365.44 | 365.44 | 402.12 | 403.11 | 403.11 | 403.11 | 604.2 | 605.88 | 605.88 | 605.88 |
| 270020 | 56.6 | 56.6 | 56.6 | 56.6 | 121.84 | 121.84 | 121.84 | 121.84 | 159.22 | 159.22 | 159.22 | 159.22 | 177.84 | 177.84 | 177.84 | 177.84 | 275.73 | 275.73 | 275.73 | 275.73 |
| 270030 | 52.41 | 52.41 | 52.41 | 52.41 | 103.98 | 103.98 | 103.98 | 103.98 | 133.1 | 133.1 | 133.1 | 133.1 | 147.58 | 147.58 | 147.58 | 147.58 | 223.71 | 223.71 | 223.71 | 223.71 |
| 270040 | 7.3 | 7.3 | 7.3 | 7.3 | 16.66 | 16.66 | 16.66 | 16.66 | 21.5 | 21.5 | 21.5 | 21.5 | 22.89 | 22.89 | 22.89 | 22.89 | 26.44 | 26.44 | 26.44 | 26.44 |
| 270050 | 47.2 | 47.2 | 47.2 | 47.2 | 89.28 | 89.28 | 89.28 | 89.28 | 113.03 | 113.03 | 113.03 | 113.03 | 124.85 | 124.85 | 124.85 | 124.85 | 187.17 | 187.17 | 187.17 | 187.17 |
| 270060 | 17.61 | 17.61 | 17.61 | 17.61 | 28.83 | 28.83 | 28.83 | 28.83 | 33.74 | 33.74 | 33.74 | 33.74 | 35.65 | 35.65 | 35.65 | 35.65 | 43.75 | 43.75 | 43.75 | 43.75 |
| 270070 | 17.68 | 17.68 | 17.68 | 17.68 | 28.89 | 28.89 | 28.89 | 28.89 | 33.79 | 33.79 | 33.79 | 33.79 | 35.7 | 35.7 | 35.7 | 35.7 | 43.8 | 43.8 | 43.8 | 43.8 |
| 270080 | 50.55 | 50.55 | 50.55 | 50.55 | 95.46 | 95.46 | 95.46 | 95.46 | 120.81 | 120.81 | 120.81 | 120.81 | 133.42 | 133.42 | 133.42 | 133.42 | 199.94 | 199.94 | 199.94 | 199.94 |
| 280010 | 63.59 | 62.78 | 62.78 | 62.78 | 131.92 | 131.94 | 131.94 | 131.94 | 167.54 | 167.54 | 167.54 | 167.54 | 183.42 | 183.42 | 183.42 | 183.42 | 248.63 | 248.63 | 248.63 | 248.63 |
| 280020 | 63.59 | 62.79 | 62.79 | 62.79 | 131.93 | 131.95 | 131.95 | 131.95 | 167.56 | 167.56 | 167.56 | 167.56 | 183.44 | 183.44 | 183.44 | 183.44 | 248.64 | 248.64 | 248.64 | 248.64 |
| 280030 | 63.59 | 62.8 | 62.8 | 62.8 | 131.95 | 131.98 | 131.98 | 131.98 | 167.65 | 167.65 | 167.65 | 167.65 | 183.55 | 183.55 | 183.55 | 183.55 | 248.8 | 248.8 | 248.8 | 248.8 |
| 280040 | 117.58 | 117.59 | 117.59 | 117.59 | 218.9 | 218.9 | 218.9 | 218.9 | 264.5 | 264.5 | 264.5 | 264.5 | 284.3 | 284.3 | 284.3 | 284.3 | 370.72 | 370.72 | 370.72 | 370.72 |
| 280050 | 95.7 | 95.7 | 95.7 | 95.7 | 176.09 | 176.1 | 176.1 | 176.1 | 210.23 | 210.23 | 210.23 | 210.23 | 224.23 | 224.23 | 224.23 | 224.23 | 279.54 | 279.54 | 279.54 | 279.54 |
| 280060 | 99.06 | 99.06 | 99.06 | 99.06 | 184.3 | 184.31 | 184.31 | 184.31 | 225.26 | 225.26 | 225.26 | 225.26 | 242.62 | 242.62 | 242.62 | 242.62 | 322.03 | 322.03 | 322.03 | 322.03 |
| 280070 | 124.71 | 124.72 | 124.72 | 124.72 | 257.26 | 257.28 | 257.28 | 257.28 | 323 | 323 | 323 | 323 | 351.48 | 351.48 | 351.48 | 351.48 | 490.9 | 490.9 | 490.9 | 490.9 |
| 280080 | 96.99 | 97.02 | 97.02 | 97.02 | 183.3 | 183.31 | 183.31 | 183.31 | 226.46 | 226.46 | 226.46 | 226.46 | 242.77 | 242.77 | 242.77 | 242.77 | 321.83 | 321.83 | 321.83 | 321.83 |
| 280090 | 110.72 | 110.72 | 110.72 | 110.72 | 202.43 | 202.44 | 202.44 | 202.44 | 253.18 | 253.18 | 253.18 | 253.18 | 279.49 | 279.49 | 279.49 | 279.49 | 411.3 | 411.3 | 411.3 | 411.3 |
| 280100 | 99.28 | 99.28 | 99.28 | 99.28 | 194.59 | 194.59 | 194.59 | 194.59 | 248.43 | 248.43 | 248.43 | 248.43 | 275.22 | 275.22 | 275.22 | 275.22 | 416.13 | 416.13 | 416.13 | 416.13 |
| 280110 | 66.95 | 66.96 | 66.96 | 66.96 | 108.17 | 108.18 | 108.18 | 108.18 | 128.48 | 128.48 | 128.48 | 128.48 | 138.72 | 138.72 | 138.72 | 138.72 | 188.75 | 188.75 | 188.75 | 188.75 |
| 280120 | 73.41 | 73.43 | 73.43 | 73.43 | 154.92 | 154.94 | 154.94 | 154.94 | 199.01 | 199.01 | 199.01 | 199.01 | 221.59 | 221.59 | 221.59 | 221.59 | 334.15 | 334.15 | 334.15 | 334.15 |
| 280130 | 73.53 | 73.55 | 73.55 | 73.55 | 156.48 | 156.52 | 156.52 | 156.52 | 204.44 | 204.44 | 204.44 | 204.44 | 229.71 | 229.71 | 229.71 | 229.71 | 349.74 | 349.74 | 3 | |

Summary of Flow Results at all Nodes

| Node | 2.33YR24HR | | | | 25YR24HR | | | | 50YR24HR | | | | 100YR24HR | | | | 500YR24HR | | | |
|--------|-----------------------|---------------------------------|-----------------------|-----------------------------|-----------------------|---------------------------------|-----------------------|-----------------------------|-----------------------|---------------------------------|-----------------------|-----------------------------|-----------------------|---------------------------------|-----------------------|-----------------------------|-----------------------|---------------------------------|-----------------------|-----------------------------|
| | Effective Model (cfs) | Corrected Effective Model (cfs) | Proposed Bridge (cfs) | Proposed Box Culverts (cfs) | Effective Model (cfs) | Corrected Effective Model (cfs) | Proposed Bridge (cfs) | Proposed Box Culverts (cfs) | Effective Model (cfs) | Corrected Effective Model (cfs) | Proposed Bridge (cfs) | Proposed Box Culverts (cfs) | Effective Model (cfs) | Corrected Effective Model (cfs) | Proposed Bridge (cfs) | Proposed Box Culverts (cfs) | Effective Model (cfs) | Corrected Effective Model (cfs) | Proposed Bridge (cfs) | Proposed Box Culverts (cfs) |
| 280550 | 135.68 | 135.68 | 135.68 | 135.68 | 222.45 | 222.45 | 222.45 | 222.45 | 264.4 | 264.4 | 264.4 | 264.4 | 284.83 | 284.83 | 284.83 | 284.83 | 388.25 | 388.25 | 388.24 | 388.24 |
| 280560 | 195.39 | 195.39 | 195.39 | 195.39 | 358.36 | 358.36 | 358.36 | 358.36 | 450.65 | 450.65 | 450.65 | 450.65 | 496.67 | 496.67 | 496.67 | 496.67 | 739.86 | 739.86 | 739.86 | 739.86 |
| 280600 | 408.26 | 408.26 | 408.26 | 408.26 | 732.14 | 732.14 | 732.14 | 732.14 | 916.62 | 916.62 | 916.62 | 916.62 | 1008.78 | 1008.78 | 1008.78 | 1008.78 | 1496.8 | 1496.8 | 1496.8 | 1496.8 |
| 280610 | 57.48 | 57.48 | 57.48 | 57.48 | 102.18 | 102.18 | 102.18 | 102.18 | 127.73 | 127.73 | 127.73 | 127.73 | 140.5 | 140.5 | 140.5 | 140.5 | 208.2 | 208.2 | 208.2 | 208.2 |
| 280620 | 451.7 | 451.7 | 451.7 | 451.7 | 811.15 | 811.15 | 811.15 | 811.15 | 1015.79 | 1015.79 | 1015.79 | 1015.79 | 1118.02 | 1118.02 | 1118.02 | 1118.02 | 1659.25 | 1659.25 | 1659.25 | 1659.25 |
| 280630 | 11.66 | 11.67 | 11.67 | 11.67 | 31.89 | 31.9 | 31.9 | 31.9 | 45.94 | 45.94 | 45.94 | 45.94 | 54.74 | 54.74 | 54.74 | 54.74 | 103.42 | 103.42 | 103.42 | 103.42 |
| 280640 | 2.79 | 2.79 | 2.79 | 2.79 | 7.7 | 7.79 | 7.79 | 7.79 | 11.38 | 11.38 | 11.38 | 11.38 | 13.24 | 13.24 | 13.24 | 13.24 | 24.81 | 24.81 | 24.81 | 24.81 |
| 280650 | 3 | 3.01 | 3.01 | 3.01 | 8.2 | 8.2 | 8.2 | 8.2 | 11.82 | 11.82 | 11.82 | 11.82 | 14.79 | 14.79 | 14.79 | 14.79 | 25.21 | 25.21 | 25.21 | 25.21 |
| 280660 | 3.13 | 3.13 | 3.13 | 3.13 | 8.45 | 8.45 | 8.45 | 8.45 | 12.04 | 12.04 | 12.04 | 12.04 | 14.73 | 14.73 | 14.73 | 14.73 | 25.25 | 25.25 | 25.25 | 25.25 |
| 280670 | 3 | 3 | 3 | 3 | 8.2 | 8.2 | 8.2 | 8.2 | 11.79 | 11.79 | 11.79 | 11.79 | 13.34 | 13.34 | 13.34 | 13.34 | 24.63 | 24.63 | 24.63 | 24.63 |
| 280680 | 36.03 | 36.03 | 36.03 | 36.03 | 72.75 | 72.75 | 72.75 | 72.75 | 83.64 | 83.64 | 83.64 | 83.64 | 86.18 | 86.18 | 86.18 | 86.18 | 86.6 | 86.6 | 86.6 | 86.6 |
| 280690 | 8.03 | 8.03 | 8.03 | 8.03 | 16.04 | 16.03 | 16.03 | 16.03 | 14.45 | 14.45 | 14.45 | 14.45 | 13.07 | 13.07 | 13.07 | 13.07 | 8.16 | 8.16 | 8.14 | 8.14 |
| 280700 | 8.31 | 8.33 | 8.33 | 8.33 | 16.19 | 16.18 | 16.18 | 16.18 | 14.53 | 14.53 | 14.53 | 14.53 | 13.1 | 13.1 | 13.1 | 13.1 | 8.33 | 8.33 | 8.33 | 8.33 |
| 280710 | 16.04 | 16.04 | 16.04 | 16.04 | 17.75 | 17.74 | 17.74 | 17.74 | 15.17 | 15.17 | 15.17 | 15.17 | 13.6 | 13.6 | 13.6 | 13.6 | 10.9 | 10.9 | 10.9 | 10.9 |
| 280720 | 12.33 | 12.33 | 12.33 | 12.33 | 22.48 | 22.48 | 22.48 | 22.48 | 28.23 | 28.23 | 28.23 | 28.23 | 31.1 | 31.1 | 31.1 | 31.1 | 46.27 | 46.27 | 46.27 | 46.27 |
| 280730 | 26.6 | 26.6 | 26.6 | 26.6 | 48.56 | 48.56 | 48.56 | 48.56 | 61.01 | 61.01 | 61.01 | 61.01 | 67.22 | 67.22 | 67.22 | 67.22 | 100.05 | 100.05 | 100.05 | 100.05 |
| 280740 | 17.99 | 17.98 | 17.98 | 17.98 | 23.57 | 23.56 | 23.56 | 23.56 | 25.79 | 25.79 | 25.79 | 25.79 | 26.36 | 26.36 | 26.36 | 26.36 | 22.62 | 22.62 | 22.62 | 22.62 |
| 280800 | 132.14 | 132.17 | 132.17 | 132.17 | 244.44 | 244.42 | 244.42 | 244.42 | 300.58 | 300.58 | 300.58 | 300.58 | 326.03 | 326.03 | 326.03 | 326.03 | 448.81 | 448.81 | 448.81 | 448.81 |
| 280810 | 88.68 | 88.69 | 88.69 | 88.69 | 154.83 | 154.82 | 154.82 | 154.82 | 181.29 | 181.29 | 181.29 | 181.29 | 192.82 | 192.82 | 192.82 | 192.82 | 230.59 | 230.59 | 230.59 | 230.59 |
| 280820 | 32.49 | 32.49 | 32.49 | 32.49 | 61.93 | 61.93 | 61.93 | 61.93 | 78.56 | 78.56 | 78.56 | 78.56 | 86.83 | 86.83 | 86.83 | 86.83 | 130.44 | 130.44 | 130.44 | 130.44 |
| 280830 | 4.84 | 4.84 | 4.84 | 4.84 | 16.88 | 16.88 | 16.88 | 16.88 | 21.18 | 21.18 | 21.18 | 21.18 | 22.93 | 22.93 | 22.93 | 22.93 | 29.01 | 29.01 | 29.01 | 29.01 |
| 280840 | 4.83 | 4.84 | 4.84 | 4.84 | 16.87 | 16.87 | 16.87 | 16.87 | 21.16 | 21.16 | 21.16 | 21.16 | 22.9 | 22.9 | 22.9 | 22.9 | 29.01 | 29.01 | 29.01 | 29.01 |
| 280850 | 11.96 | 11.96 | 11.96 | 11.96 | 22.2 | 22.2 | 22.2 | 22.2 | 27.99 | 27.99 | 27.99 | 27.99 | 30.87 | 30.87 | 30.87 | 30.87 | 46.1 | 46.1 | 46.1 | 46.1 |
| 280860 | 8.06 | 8.06 | 8.06 | 8.06 | 14.71 | 14.71 | 14.71 | 14.71 | 18.48 | 18.48 | 18.48 | 18.48 | 20.36 | 20.36 | 20.36 | 20.36 | 30.3 | 30.3 | 30.3 | 30.3 |
| 280870 | 63.48 | 63.49 | 63.49 | 63.49 | 160.2 | 160.24 | 160.24 | 160.24 | 234.68 | 234.68 | 234.68 | 234.68 | 274.86 | 274.86 | 274.86 | 274.86 | 448.24 | 448.24 | 448.24 | 448.24 |
| 280880 | 15.89 | 15.9 | 15.9 | 15.9 | 59.14 | 59.15 | 59.15 | 59.15 | 80.35 | 80.35 | 80.35 | 80.35 | 89.46 | 89.46 | 89.46 | 89.46 | 125.12 | 124.94 | 124.97 | 125.28 |
| 280890 | 19.84 | 19.84 | 19.84 | 19.84 | 49.79 | 49.79 | 49.79 | 49.79 | 77.88 | 77.88 | 77.88 | 77.88 | 95.19 | 95.19 | 95.19 | 95.19 | 169.88 | 169.88 | 169.88 | 169.88 |
| 280900 | 11.36 | 11.36 | 11.36 | 11.36 | 41.08 | 41.08 | 41.08 | 41.08 | 56.68 | 56.68 | 56.68 | 56.68 | 63.43 | 63.43 | 63.43 | 63.43 | 97.26 | 97.26 | 97.26 | 97.26 |
| 281000 | 36.24 | 36.24 | 36.24 | 36.24 | 55.09 | 55.08 | 55.08 | 55.08 | 84.81 | 84.81 | 84.81 | 84.81 | 103.33 | 103.33 | 103.33 | 103.33 | 192.67 | 192.67 | 192.67 | 192.67 |
| 281010 | 30.97 | 30.97 | 30.97 | 30.97 | 54.24 | 54.24 | 54.24 | 54.24 | 67.2 | 67.2 | 67.2 | 67.2 | 73.75 | 73.75 | 73.75 | 73.75 | 108.7 | 108.7 | 108.7 | 108.7 |
| 281020 | 11.48 | 11.48 | 11.48 | 11.48 | 11.67 | 11.67 | 11.67 | 11.67 | 11.82 | 11.82 | 11.82 | 11.82 | 11.91 | 11.91 | 11.91 | 11.91 | 12.53 | 12.53 | 12.53 | 12.53 |
| 281030 | 12.85 | 12.85 | 12.85 | 12.85 | 12.83 | 12.83 | 12.83 | 12.83 | 12.85 | 12.85 | 12.85 | 12.85 | 12.8 | 12.8 | 12.8 | 12.8 | 12.55 | 12.55 | 12.55 | 12.55 |
| 281040 | 17.28 | 17.28 | 17.28 | 17.28 | 16.09 | 16.08 | 16.08 | 16.08 | 15.46 | 15.46 | 15.46 | 15.46 | 15.5 | 15.5 | 15.5 | 15.5 | 14.12 | 14.12 | 14.12 | 14.12 |
| 281050 | 23.07 | 23.07 | 23.07 | 23.07 | 20.66 | 20.65 | 20.65 | 20.65 | 18.29 | 18.29 | 18.29 | 18.29 | 18.57 | 18.57 | 18.57 | 18.57 | 16.06 | 16.06 | 16.06 | 16.06 |
| 281060 | 35.63 | 35.64 | 35.64 | 35.64 | 72.48 | 72.48 | 72.48 | 72.48 | 95.4 | 95.4 | 95.4 | 95.4 | 107.87 | 107.87 | 107.87 | 107.87 | 168.29 | 168.29 | 168.29 | 168.29 |
| 281070 | 7.26 | 7.26 | 7.26 | 7.26 | 13.34 | 13.34 | 13.34 | 13.34 | 16.79 | 16.79 | 16.79 | 16.79 | 18.51 | 18.51 | 18.51 | 18.51 | 27.59 | 27.59 | 27.59 | 27.59 |
| 281080 | 3.44 | 3.44 | 3.44 | 3.44 | 15.94 | 15.94 | 15.94 | 15.94 | 24.68 | 24.68 | 24.68 | 24.68 | 29.61 | 29.61 | 29.61 | 29.61 | 49.91 | 49.91 | 49.91 | 49.91 |
| 281090 | 6.11 | 6.11 | 6.11 | 6.11 | 11.13 | 11.13 | 11.13 | 11.13 | 13.98 | 13.98 | 13.98 | 13.98 | 15.4 | 15.4 | 15.4 | 15.4 | 22.92 | 22.92 | 22.92 | 22.92 |
| 281100 | 21.37 | 21.31 | 21.31 | 21.31 | 48.59 | 48.6 | 48.6 | 48.6 | 62.59 | 62.59 | 62.59 | 62.59 | 68.22 | 68.22 | 68.22 | 68.22 | 83.3 | 83.3 | 83.3 | 83.3 |
| 281110 | 21.15 | 21.12 | 21.12 | 21.12 | 48.65 | 48.66 | 48.66 | 48.66 | 62.67 | 62.67 | 62.67 | 62.67 | 68.27 | 68.27 | 68.27 | 68.27 | 83.12 | 83.12 | 83.12 | 83.12 |
| 281120 | 27.7 | 27.68 | 27.68 | 27.68 | 58.42 | 58.43 | 58.43 | 58.43 | 79.77 | 79.77 | 79.77 | 79.77 | 89.81 | 89.81 | 89.81 | 89.81 | 128.53 | 128.53 | 128.53 | 128.53 |
| 281130 | 15.89 | 15.91 | 15.91 | 15.91 | 58.8 | 58.82 | 58.82 | 58.82 | 80.08 | 80.08 | 80.08 | 80.08 | 89.92 | 89.92 | 89.92 | 89.92 | 126.05 | 126.05 | 126.05 | 126.05 |
| 281140 | 11.18 | 11.18 | 11.18 | 11.18 | 21.01 | 21.01 | 21.01 | 21.01 | 26.56 | 26.56 | 26.56 | 26.56 | 29.32 | 29.32 | 29.32 | 29.32 | 46.74 | 46.74 | 46.74 | 46.74 |
| 281150 | 2.66 | 2.66 | 2.66 | 2.66 | 7.91 | 7.91 | 7.91 | 7.91 | 9.69 | 9.69 | 9.69 | 9.69 | 10.05 | 10.05 | 10.05 | 10.05 | 9.82 | 9.82 | 9.82 | 9.82 |
| 281160 | 6.75 | 6.75 | 6.75 | 6.75 | 12.69 | 12.69 | 12.69 | 12.69 | 16.04 | 16.04 | 16.04 | 16.04 | 17.71 | 17.71 | 17.71 | 17.71 | 26.51 | 26.51 | 26.51 | 26.51 |
| 281170 | 1.27 | 1.27 | 1.27 | 1.27 | 6.18 | 6.18 | 6.18 | 6.18 | 8.92 | 8.92 | 8.92 | 8.92 | 9.84 | 9.84 | 9.84 | 9.84 | 9.65 | 9.65 | 9.65 | 9.65 |
| 281180 | 6.02 | 6.02 | 6.02 | 6.02 | 11.38 | 11.38 | 11.38 | 11.38 | 14.41 | 14.41 | 14.41 | 14.41 | 15.91 | 15.91 | 15.91 | 15.91 | 23.85 | 23.85 | 23.85 | 23.85 |
| 281190 | 2.83 | 2.83 | 2.83 | 2.83 | 7.73 | 7.73 | 7.73 | 7.73 | 9.45 | 9.45 | 9.45 | 9.45 | 9.66 | 9.66 | 9.66 | 9.66 | 7.69 | 7.69 | 7.69 | 7.69 |
| 281200 | 6.12 | 6.12 | 6.12 | 6.12 | 11.6 | 11.6 | 11.6 | 11.6 | 14.69 | 14.69 | 14.69 | 14.69 | 16.23 | 16.23 | 16.23 | 16.23 | 24.34 | 24.34 | 24.34 | 24.34 |
| 281210 | 7.95 | 7.92 | 7.92 | 7.92 | 14.8 | 14.83 | 14.83 | 14.83 | 26.28 | 26.28 | 26.28 | 26.28 | 29.65 | 29.65 | 29.65 | 29.65 | 47.6 | 47.6 | 47.6 | 47.6 |
| 281220 | 37.06 | 37.06 | 37.06 | 37.06 | 68.1 | 68.1 | 68.1 | 68.1 | 85.68 | 85.68 | 85.68 | 85.68 | 94.44 | 94.44 | 94.44 | 94.44 | 140.73 | 140.73 | 140.73 | 140.73 |
| 281230 | 6.83 | 6.81 | 6.81 | 6.81 | 2.56 | 2.55 | 2.55 | 2.55 | 2.35 | 2.35 | 2.35 | 2.35 | 2.26 | 2.26 | 2.26 | 2.26 | 3.37 | 3.37 | 3.37 | 3.37 |
| 281240 | 17.46 | 17.46 | 17.46 | 17.46 | 33.02 | 33.02 | 33.02 | 33.02 | 41.79 | 41.79 | 41.79 | 41.79 | 46.16 | 46.16 | 46.16 | 46.16 | 69.19 | 69.19 | 69.19 | 69.19 |
| 281250 | 7.04 | 7.04 | 7.04 | 7.04 | 13.76 | 13.76 | 13.76 | 13.76 | 17.55 | 17.55 | 17.55 | 17.55 | 19.44 | 19.44 | 19.44 | 19.44 | 29.7 | 29.7 | 29.7 | 29.7 |
| 281300 | 31.57 | 31.51 | 31.51 | 31.51 | 45.61 | 45.62 | 45.62 | 45.62 | 66.49 | 66.49 | 66.49 | 66.49 | 73.61 | 73.61 | 73.61 | 73.61 | 112.94 | 112.94 | 112.94 | 112.94 |
| 281310 | 287.45 | 287.6 | 287.6 | 287.6 | 574.91 | 574.96 | 574.96 | 574.96 | 722.89 | 722.89 | 722.89 | 722.89 | | | | | | | | |

Summary of Flow Results at all Nodes

| Node | 2.33YR24HR | | | | 25YR24HR | | | | 50YR24HR | | | | 100YR24HR | | | | 500YR24HR | | | |
|--------|-----------------------|---------------------------------|-----------------------|-----------------------------|-----------------------|---------------------------------|-----------------------|-----------------------------|-----------------------|---------------------------------|-----------------------|-----------------------------|-----------------------|---------------------------------|-----------------------|-----------------------------|-----------------------|---------------------------------|-----------------------|-----------------------------|
| | Effective Model (cfs) | Corrected Effective Model (cfs) | Proposed Bridge (cfs) | Proposed Box Culverts (cfs) | Effective Model (cfs) | Corrected Effective Model (cfs) | Proposed Bridge (cfs) | Proposed Box Culverts (cfs) | Effective Model (cfs) | Corrected Effective Model (cfs) | Proposed Bridge (cfs) | Proposed Box Culverts (cfs) | Effective Model (cfs) | Corrected Effective Model (cfs) | Proposed Bridge (cfs) | Proposed Box Culverts (cfs) | Effective Model (cfs) | Corrected Effective Model (cfs) | Proposed Bridge (cfs) | Proposed Box Culverts (cfs) |
| 281840 | 6.07 | 6.07 | 6.07 | 6.07 | 20.63 | 20.64 | 20.64 | 20.64 | 31.39 | 31.39 | 31.39 | 31.39 | 37.98 | 37.98 | 37.98 | 37.98 | 73.54 | 73.54 | 73.54 | 73.54 |
| 281850 | 5.92 | 5.92 | 5.92 | 5.92 | 19.93 | 19.93 | 19.93 | 19.93 | 30.26 | 30.26 | 30.26 | 30.26 | 36.69 | 36.69 | 36.69 | 36.69 | 71.84 | 71.84 | 71.84 | 71.84 |
| 281860 | 5.89 | 5.89 | 5.89 | 5.89 | 19.89 | 19.89 | 19.89 | 19.89 | 30.21 | 30.21 | 30.21 | 30.21 | 36.64 | 36.64 | 36.64 | 36.64 | 71.78 | 71.78 | 71.78 | 71.78 |
| 281870 | 354.79 | 354.82 | 354.82 | 354.82 | 627.04 | 627.05 | 627.05 | 627.05 | 772.3 | 772.3 | 772.3 | 772.3 | 842.91 | 842.91 | 842.91 | 842.91 | 1187.77 | 1187.77 | 1187.77 | 1187.77 |
| 281880 | 82.6 | 82.6 | 82.6 | 82.6 | 158.02 | 158.02 | 158.02 | 158.02 | 199.85 | 199.85 | 199.85 | 199.85 | 220.35 | 220.35 | 220.35 | 220.35 | 334.67 | 334.67 | 334.67 | 334.67 |
| 281890 | 29.69 | 29.7 | 29.7 | 29.7 | 52.72 | 52.73 | 52.73 | 52.73 | 65.84 | 65.84 | 65.84 | 65.84 | 71.84 | 71.84 | 71.84 | 71.84 | 107.95 | 107.95 | 107.95 | 107.95 |
| 281900 | 29.69 | 29.7 | 29.7 | 29.7 | 52.73 | 52.73 | 52.73 | 52.73 | 65.85 | 65.85 | 65.85 | 65.85 | 71.86 | 71.86 | 71.86 | 71.86 | 108.06 | 108.06 | 108.06 | 108.06 |
| 281910 | 56.93 | 56.93 | 56.93 | 56.93 | 105.23 | 105.23 | 105.23 | 105.23 | 130.16 | 130.16 | 130.16 | 130.16 | 144.37 | 144.37 | 144.37 | 144.37 | 230.92 | 230.92 | 230.92 | 230.92 |
| 281915 | 7.92 | 7.92 | 7.92 | 7.92 | 10.34 | 10.34 | 10.34 | 10.34 | 14.48 | 14.48 | 14.48 | 14.48 | 15.96 | 15.96 | 15.96 | 15.96 | 22.33 | 22.33 | 22.33 | 22.33 |
| 281920 | 28.79 | 28.81 | 28.81 | 28.81 | 65.78 | 65.78 | 65.78 | 65.78 | 95.57 | 95.57 | 95.57 | 95.57 | 112.36 | 112.36 | 112.36 | 112.36 | 198.21 | 198.21 | 198.21 | 198.21 |
| 281930 | 5.7 | 5.7 | 5.7 | 5.7 | 7.29 | 7.29 | 7.29 | 7.29 | 8.06 | 8.06 | 8.06 | 8.06 | 8.5 | 8.5 | 8.5 | 8.5 | 11.3 | 11.3 | 11.3 | 11.3 |
| 281940 | 3.02 | 3.02 | 3.02 | 3.02 | 6.59 | 6.58 | 6.58 | 6.58 | 7.06 | 7.06 | 7.06 | 7.06 | 7.94 | 7.94 | 7.94 | 7.94 | 11.14 | 11.14 | 11.14 | 11.14 |
| 281950 | 4.24 | 4.24 | 4.24 | 4.24 | 5.62 | 5.62 | 5.62 | 5.62 | 6.71 | 6.71 | 6.71 | 6.71 | 7.81 | 7.81 | 7.81 | 7.81 | 10.79 | 10.79 | 10.79 | 10.79 |
| 281960 | 9.02 | 9.02 | 9.02 | 9.02 | 22.02 | 22.02 | 22.02 | 22.02 | 29.1 | 29.1 | 29.1 | 29.1 | 32.52 | 32.52 | 32.52 | 32.52 | 52.16 | 52.16 | 52.16 | 52.16 |
| 281970 | 5.15 | 5.15 | 5.15 | 5.15 | 10.42 | 10.42 | 10.42 | 10.42 | 12.3 | 12.3 | 12.3 | 12.3 | 13.1 | 13.1 | 13.1 | 13.1 | 44.37 | 44.37 | 44.37 | 44.37 |
| 281980 | 2.99 | 2.99 | 2.99 | 2.99 | 3.65 | 3.65 | 3.65 | 3.65 | 3.75 | 3.75 | 3.75 | 3.75 | 3.77 | 3.77 | 3.77 | 3.77 | 4.43 | 4.43 | 4.43 | 4.43 |
| 281990 | 16.25 | 16.25 | 16.25 | 16.25 | 35.86 | 35.86 | 35.86 | 35.86 | 47.24 | 47.24 | 47.24 | 47.24 | 52.92 | 52.92 | 52.92 | 52.92 | 90.05 | 90.05 | 90.05 | 90.05 |
| 282000 | 1.21 | 1.21 | 1.21 | 1.21 | 5.39 | 5.39 | 5.39 | 5.39 | 8.92 | 8.92 | 8.92 | 8.92 | 10.83 | 10.83 | 10.83 | 10.83 | 16.41 | 16.41 | 16.41 | 16.41 |
| 282010 | 1.24 | 1.24 | 1.24 | 1.24 | 7.11 | 7.11 | 7.11 | 7.11 | 8.84 | 8.84 | 8.84 | 8.84 | 10.24 | 10.24 | 10.24 | 10.24 | 14.91 | 14.91 | 14.91 | 14.91 |
| 282020 | 1.24 | 1.24 | 1.24 | 1.24 | 7.15 | 7.15 | 7.15 | 7.15 | 10.25 | 10.25 | 10.25 | 10.25 | 10.85 | 10.85 | 10.85 | 10.85 | 14.98 | 14.98 | 14.98 | 14.98 |
| 282100 | 4.66 | 4.67 | 4.67 | 4.67 | 4.34 | 4.34 | 4.34 | 4.34 | 3.78 | 3.78 | 3.78 | 3.78 | 3.54 | 3.54 | 3.54 | 3.54 | 3.59 | 3.59 | 3.59 | 3.59 |
| 282110 | 14.28 | 14.29 | 14.29 | 14.29 | 17.32 | 17.32 | 17.32 | 17.32 | 17.04 | 17.04 | 17.04 | 17.04 | 17.23 | 17.23 | 17.23 | 17.23 | 20.46 | 20.46 | 20.46 | 20.46 |
| 282120 | 14.97 | 14.97 | 14.97 | 14.97 | 16.44 | 16.44 | 16.44 | 16.44 | 12.6 | 12.6 | 12.6 | 12.6 | 11.91 | 11.91 | 11.91 | 11.91 | 11.73 | 11.73 | 11.73 | 11.73 |
| 282130 | 28.54 | 28.55 | 28.55 | 28.55 | 53.45 | 53.47 | 53.47 | 53.47 | 66.91 | 66.91 | 66.91 | 66.91 | 73.05 | 73.05 | 73.05 | 73.05 | 100.6 | 100.6 | 100.6 | 100.6 |
| 282140 | 16.41 | 16.42 | 16.42 | 16.42 | 28.49 | 28.5 | 28.5 | 28.5 | 32.8 | 32.8 | 32.8 | 32.8 | 34.29 | 34.29 | 34.29 | 34.29 | 38.1 | 38.1 | 38.1 | 38.1 |
| 282150 | 57.19 | 57.22 | 57.22 | 57.22 | 105.1 | 105.16 | 105.16 | 105.16 | 129.7 | 129.7 | 129.7 | 129.7 | 141.13 | 141.13 | 141.13 | 141.13 | 191.56 | 191.56 | 191.56 | 191.56 |
| 282160 | 15.83 | 15.83 | 15.83 | 15.83 | 29.73 | 29.73 | 29.73 | 29.73 | 37.58 | 37.58 | 37.58 | 37.58 | 41.49 | 41.49 | 41.49 | 41.49 | 62.1 | 62.1 | 62.1 | 62.1 |
| 282170 | 6.74 | 6.74 | 6.74 | 6.74 | 14.91 | 14.91 | 14.91 | 14.91 | 19.7 | 19.7 | 19.7 | 19.7 | 22.09 | 22.09 | 22.09 | 22.09 | 34.66 | 34.66 | 34.66 | 34.66 |
| 282180 | 14.4 | 14.4 | 14.4 | 14.4 | 33.05 | 33.05 | 33.05 | 33.05 | 44.08 | 44.08 | 44.08 | 44.08 | 49.6 | 49.6 | 49.6 | 49.6 | 85.64 | 85.64 | 85.64 | 85.64 |
| 282190 | 1.77 | 1.77 | 1.77 | 1.77 | 5.21 | 5.21 | 5.21 | 5.21 | 6.53 | 6.53 | 6.53 | 6.53 | 7.11 | 7.11 | 7.11 | 7.11 | 13.09 | 13.09 | 13.09 | 13.09 |
| 282200 | 7.24 | 7.24 | 7.24 | 7.24 | 14.83 | 14.83 | 14.83 | 14.83 | 19.12 | 19.12 | 19.12 | 19.12 | 21.26 | 21.26 | 21.26 | 21.26 | 32.47 | 32.47 | 32.47 | 32.47 |
| 282210 | 0 | 0 | 0 | 0 | 0.86 | 0.86 | 0.86 | 0.86 | 1.78 | 1.78 | 1.78 | 1.78 | 2.43 | 2.43 | 2.43 | 2.43 | 9.3 | 9.3 | 9.3 | 9.3 |
| 282220 | 8.76 | 8.76 | 8.76 | 8.76 | 17.25 | 17.25 | 17.25 | 17.25 | 22.03 | 22.03 | 22.03 | 22.03 | 24.41 | 24.41 | 24.41 | 24.41 | 42.02 | 42.02 | 42.02 | 42.02 |
| 282230 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 282240 | 93.13 | 93.13 | 93.13 | 93.13 | 138.41 | 138.41 | 138.41 | 138.41 | 156.88 | 156.88 | 156.88 | 156.88 | 165.21 | 165.21 | 165.21 | 165.21 | 202.15 | 202.15 | 202.15 | 202.15 |
| 282245 | 0 | 0 | 0 | 0 | 2.43 | 2.43 | 2.43 | 2.43 | 3.07 | 3.07 | 3.07 | 3.07 | 3.33 | 3.33 | 3.33 | 3.33 | 3.95 | 3.95 | 3.95 | 3.95 |
| 282250 | 34.57 | 34.57 | 34.57 | 34.57 | 69.85 | 69.85 | 69.85 | 69.85 | 90.1 | 90.1 | 90.1 | 90.1 | 100.21 | 100.21 | 100.21 | 100.21 | 153.69 | 153.69 | 153.69 | 153.69 |
| 282260 | 0.99 | 0.99 | 0.99 | 0.99 | 2.66 | 2.66 | 2.66 | 2.66 | 3.76 | 3.76 | 3.76 | 3.76 | 4.31 | 4.31 | 4.31 | 4.31 | 6.91 | 6.91 | 6.91 | 6.91 |
| 282270 | 11.88 | 11.88 | 11.88 | 11.88 | 24.37 | 24.37 | 24.37 | 24.37 | 31.44 | 31.44 | 31.44 | 31.44 | 34.96 | 34.96 | 34.96 | 34.96 | 53.42 | 53.42 | 53.42 | 53.42 |
| 282280 | 68.1 | 68.1 | 68.1 | 68.1 | 134.11 | 134.11 | 134.11 | 134.11 | 171.34 | 171.34 | 171.34 | 171.34 | 189.84 | 189.84 | 189.84 | 189.84 | 287.16 | 287.16 | 287.16 | 287.16 |
| 282290 | 11.31 | 11.31 | 11.31 | 11.31 | 21.61 | 21.61 | 21.61 | 21.61 | 27.41 | 27.41 | 27.41 | 27.41 | 30.3 | 30.3 | 30.3 | 30.3 | 45.52 | 45.52 | 45.52 | 45.52 |
| 282300 | 0 | 0 | 0 | 0 | 1.23 | 1.23 | 1.23 | 1.23 | 2.29 | 2.29 | 2.29 | 2.29 | 2.88 | 2.88 | 2.88 | 2.88 | 6.34 | 6.34 | 6.34 | 6.34 |
| 282310 | 29.29 | 29.29 | 29.29 | 29.29 | 59.55 | 59.55 | 59.55 | 59.55 | 76.66 | 76.66 | 76.66 | 76.66 | 85.17 | 85.17 | 85.17 | 85.17 | 129.85 | 129.85 | 129.85 | 129.85 |
| 282320 | 13.31 | 13.31 | 13.31 | 13.31 | 28.04 | 28.04 | 28.04 | 28.04 | 30.41 | 30.41 | 30.41 | 30.41 | 31.04 | 31.04 | 31.04 | 31.04 | 31.47 | 31.47 | 31.47 | 31.47 |
| 282330 | 18.84 | 18.84 | 18.84 | 18.84 | 37.65 | 37.65 | 37.65 | 37.65 | 45.6 | 45.6 | 45.6 | 45.6 | 49.07 | 49.07 | 49.07 | 49.07 | 65.55 | 65.55 | 65.55 | 65.55 |
| 282340 | 15.74 | 15.74 | 15.74 | 15.74 | 31.47 | 31.47 | 31.47 | 31.47 | 36.73 | 36.73 | 36.73 | 36.73 | 38.76 | 38.76 | 38.76 | 38.76 | 47.2 | 47.2 | 47.2 | 47.2 |
| 282350 | 27.23 | 27.23 | 27.23 | 27.23 | 56.05 | 56.05 | 56.05 | 56.05 | 72.38 | 72.38 | 72.38 | 72.38 | 80.49 | 80.49 | 80.49 | 80.49 | 123.11 | 123.11 | 123.11 | 123.11 |
| 282360 | 12.43 | 12.43 | 12.43 | 12.43 | 23.82 | 23.82 | 23.82 | 23.82 | 30.25 | 30.25 | 30.25 | 30.25 | 33.44 | 33.44 | 33.44 | 33.44 | 50.28 | 50.28 | 50.28 | 50.28 |
| 282400 | 0.59 | 0.59 | 0.59 | 0.59 | 1.31 | 1.31 | 1.31 | 1.31 | 1.47 | 1.47 | 1.47 | 1.47 | 2.77 | 2.77 | 2.77 | 2.77 | 19.43 | 19.43 | 19.43 | 19.43 |
| 282420 | 9.93 | 9.93 | 9.93 | 9.93 | 18.74 | 18.74 | 18.74 | 18.74 | 23.71 | 23.71 | 23.71 | 23.71 | 27.63 | 27.63 | 27.63 | 27.63 | 50.05 | 50.05 | 50.05 | 50.05 |
| 282430 | 38.37 | 38.37 | 38.37 | 38.37 | 77.72 | 77.72 | 77.72 | 77.72 | 98.43 | 98.43 | 98.43 | 98.43 | 110.42 | 110.42 | 110.42 | 110.42 | 179.96 | 179.96 | 179.96 | 179.96 |
| 282440 | 45.61 | 45.61 | 45.61 | 45.61 | 83.9 | 83.9 | 83.9 | 83.9 | 105.52 | 105.52 | 105.52 | 105.52 | 116.28 | 116.28 | 116.28 | 116.28 | 175.48 | 175.48 | 175.48 | 175.48 |
| 282500 | 23.61 | 23.61 | 23.61 | 23.61 | 68.3 | 68.3 | 68.3 | 68.3 | 99.31 | 99.31 | 99.31 | 99.31 | 115.39 | 115.39 | 115.39 | 115.39 | 216.29 | 216.29 | 216.29 | 216.29 |
| 282510 | 13.63 | 13.64 | 13.64 | 13.64 | 25.01 | 25.01 | 25.01 | 25.01 | 34.4 | 34.4 | 34.4 | 34.4 | 45.24 | 45.24 | 45.24 | 45.24 | 85.27 | 85.27 | 85.27 | 85.27 |
| 282520 | 4.44 | 4.44 | 4.44 | 4.44 | 12.9 | 12.9 | 12.9 | 12.9 | 33.87 | 33.87 | 33.87 | 33.87 | 44.58 | 44.58 | 44.58 | 44.58 | 82.91 | 82.91 | 82.91 | 82.91 |
| 282530 | 2.2 | 2.2 | 2.2 | 2.2 | 14.91 | 14.92 | 14.92 | 14.92 | 33.12 | 33.12 | 33.12 | 33.12 | 43.74 | 43.74 | 43.74 | 43.74 | 81.69 | 81.69 | 81.69 | 81.69 |
| 282540 | 4.24 | 4.24 | 4.24 | 4.24 | 15.98 | 15.99 | 15.99 | 15.99 | 38.3 | 38.3 | 38.3 | 38.3 | 45.92 | 45.92 | 45.92 | 45.92 | 83.19 | 83.19 | 83.1 | |

Summary of Flow Results at all Nodes

| Node | 2.33YR24HR | | | | 25YR24HR | | | | 50YR24HR | | | | 100YR24HR | | | | 500YR24HR | | | |
|--------|-----------------------|---------------------------------|-----------------------|-----------------------------|-----------------------|---------------------------------|-----------------------|-----------------------------|-----------------------|---------------------------------|-----------------------|-----------------------------|-----------------------|---------------------------------|-----------------------|-----------------------------|-----------------------|---------------------------------|-----------------------|-----------------------------|
| | Effective Model (cfs) | Corrected Effective Model (cfs) | Proposed Bridge (cfs) | Proposed Box Culverts (cfs) | Effective Model (cfs) | Corrected Effective Model (cfs) | Proposed Bridge (cfs) | Proposed Box Culverts (cfs) | Effective Model (cfs) | Corrected Effective Model (cfs) | Proposed Bridge (cfs) | Proposed Box Culverts (cfs) | Effective Model (cfs) | Corrected Effective Model (cfs) | Proposed Bridge (cfs) | Proposed Box Culverts (cfs) | Effective Model (cfs) | Corrected Effective Model (cfs) | Proposed Bridge (cfs) | Proposed Box Culverts (cfs) |
| 283020 | 7.76 | 7.76 | 7.76 | 7.76 | 16.23 | 16.23 | 16.23 | 16.23 | 19.98 | 19.98 | 19.98 | 19.98 | 22.31 | 22.31 | 22.31 | 22.31 | 26.38 | 26.38 | 26.38 | 26.38 |
| 283030 | 25.51 | 25.51 | 25.51 | 25.51 | 48.47 | 48.47 | 48.47 | 48.47 | 61.42 | 61.42 | 61.42 | 61.42 | 67.86 | 67.86 | 67.86 | 67.86 | 101.83 | 101.83 | 101.83 | 101.83 |
| 283100 | 33.36 | 33.36 | 33.36 | 33.36 | 65.03 | 65.03 | 65.03 | 65.03 | 81.71 | 81.71 | 81.71 | 81.71 | 89.95 | 89.95 | 89.95 | 89.95 | 134.2 | 134.2 | 134.2 | 134.2 |
| 283110 | 9.57 | 9.57 | 9.57 | 9.57 | 19.34 | 19.34 | 19.34 | 19.34 | 24.95 | 24.95 | 24.95 | 24.95 | 27.78 | 27.78 | 27.78 | 27.78 | 41.98 | 41.98 | 41.98 | 41.98 |
| 283120 | 14.22 | 14.22 | 14.22 | 14.22 | 26.56 | 26.56 | 26.56 | 26.56 | 33.53 | 33.53 | 33.53 | 33.53 | 37 | 37 | 37 | 37 | 55.31 | 55.31 | 55.31 | 55.31 |
| 283130 | 20.09 | 20.09 | 20.09 | 20.09 | 42.4 | 42.4 | 42.4 | 42.4 | 55.28 | 55.28 | 55.28 | 55.28 | 61.69 | 61.69 | 61.69 | 61.69 | 95.39 | 95.39 | 95.39 | 95.39 |
| 283200 | 7.43 | 7.43 | 7.43 | 7.43 | 11.66 | 11.66 | 11.66 | 11.66 | 12.21 | 11.42 | 11.42 | 11.42 | 12.59 | 12 | 12 | 12 | 13.89 | 13.47 | 13.47 | 13.47 |
| 283210 | 28.25 | 28.25 | 28.25 | 28.25 | 52.44 | 52.44 | 52.44 | 52.44 | 66.41 | 66.41 | 66.41 | 66.41 | 73.39 | 73.39 | 73.39 | 73.39 | 116.53 | 116.53 | 116.53 | 116.53 |
| 283220 | 44.49 | 44.49 | 44.49 | 44.49 | 77.53 | 77.53 | 77.53 | 77.53 | 95.67 | 95.67 | 95.67 | 95.67 | 104.72 | 104.72 | 104.72 | 104.72 | 169.76 | 169.76 | 169.76 | 169.76 |
| 283230 | 9.64 | 9.64 | 9.64 | 9.64 | 9.62 | 9.62 | 9.62 | 9.62 | 9.53 | 9.53 | 9.53 | 9.53 | 9.48 | 9.48 | 9.48 | 9.48 | 9.78 | 9.46 | 9.46 | 9.46 |
| 283240 | 24.79 | 24.79 | 24.79 | 24.79 | 53.39 | 53.39 | 53.39 | 53.39 | 69.96 | 69.96 | 69.96 | 69.96 | 78.27 | 78.27 | 78.27 | 78.27 | 126.7 | 126.7 | 126.7 | 126.7 |
| 283250 | 18.15 | 18.15 | 18.15 | 18.15 | 33.13 | 33.13 | 33.13 | 33.13 | 41.62 | 41.62 | 41.62 | 41.62 | 45.85 | 45.85 | 45.85 | 45.85 | 68.24 | 68.24 | 68.24 | 68.24 |
| 283260 | 7.4 | 7.4 | 7.4 | 7.4 | 15.11 | 15.11 | 15.11 | 15.11 | 19.48 | 19.48 | 19.48 | 19.48 | 21.65 | 21.65 | 21.65 | 21.65 | 34.09 | 34.09 | 34.09 | 34.09 |
| 283300 | 29.68 | 29.68 | 29.68 | 29.68 | 63.52 | 63.52 | 63.52 | 63.52 | 78.21 | 78.21 | 78.21 | 78.21 | 86.72 | 86.72 | 86.72 | 86.72 | 125.26 | 125.26 | 125.26 | 125.26 |
| 283310 | 13.84 | 13.84 | 13.84 | 13.84 | 27.65 | 27.65 | 27.65 | 27.65 | 30.17 | 30.17 | 30.17 | 30.17 | 30.47 | 30.47 | 30.47 | 30.47 | 28.68 | 28.68 | 28.68 | 28.68 |
| 283320 | 29.66 | 29.66 | 29.66 | 29.66 | 63.43 | 63.43 | 63.43 | 63.43 | 78.24 | 78.24 | 78.24 | 78.24 | 86.75 | 86.75 | 86.75 | 86.75 | 125.28 | 125.28 | 125.28 | 125.28 |
| 283330 | 410.34 | 410.37 | 410.37 | 410.37 | 744.07 | 744.09 | 744.09 | 744.09 | 917.19 | 917.19 | 917.19 | 917.19 | 995.85 | 995.85 | 995.85 | 995.85 | 1383.19 | 1383.19 | 1383.19 | 1383.19 |
| 283340 | 53.09 | 53.11 | 53.11 | 53.11 | 90.39 | 90.41 | 90.41 | 90.41 | 106.14 | 106.14 | 106.14 | 106.14 | 110.2 | 110.2 | 110.2 | 110.2 | 120.92 | 120.92 | 120.92 | 120.92 |
| 283350 | 59.91 | 59.92 | 59.92 | 59.92 | 105.61 | 105.63 | 105.63 | 105.63 | 128.13 | 128.13 | 128.13 | 128.13 | 138.42 | 138.42 | 138.42 | 138.42 | 185.51 | 185.51 | 185.51 | 185.51 |
| 283360 | 41.27 | 41.27 | 41.27 | 41.27 | 74.04 | 74.08 | 74.08 | 74.08 | 86.57 | 86.57 | 86.57 | 86.57 | 92.7 | 92.7 | 92.7 | 92.7 | 121.87 | 121.87 | 121.87 | 121.87 |
| 283370 | 24.48 | 24.48 | 24.48 | 24.48 | 41.97 | 41.72 | 41.72 | 41.72 | 43.88 | 43.88 | 43.88 | 43.88 | 46.94 | 46.94 | 46.94 | 46.94 | 79.76 | 79.76 | 79.76 | 79.76 |
| 283380 | 4.39 | 4.39 | 4.39 | 4.39 | 8.06 | 8.06 | 8.06 | 8.06 | 9.07 | 9.07 | 9.07 | 9.07 | 9.5 | 9.5 | 9.5 | 9.5 | 25.4 | 25.4 | 25.4 | 25.4 |
| 283390 | 20.45 | 20.45 | 20.45 | 20.45 | 37.98 | 37.98 | 37.98 | 37.98 | 47.89 | 47.89 | 47.89 | 47.89 | 52.83 | 52.83 | 52.83 | 52.83 | 78.89 | 78.89 | 78.89 | 78.89 |
| 283400 | 46.18 | 46.18 | 46.18 | 46.18 | 59.46 | 59.45 | 59.45 | 59.45 | 59.94 | 59.94 | 59.94 | 59.94 | 59.81 | 59.81 | 59.81 | 59.81 | 57.25 | 57.25 | 57.25 | 57.25 |
| 283410 | 49.97 | 49.97 | 49.97 | 49.97 | 96.17 | 96.17 | 96.17 | 96.17 | 122.24 | 122.24 | 122.24 | 122.24 | 135.22 | 135.22 | 135.22 | 135.22 | 203.52 | 203.52 | 203.52 | 203.52 |
| 283420 | 19.56 | 19.56 | 19.56 | 19.56 | 37.63 | 37.63 | 37.63 | 37.63 | 48.14 | 48.14 | 48.14 | 48.14 | 51.08 | 51.08 | 51.08 | 51.08 | 55.98 | 55.98 | 55.98 | 55.98 |
| 283430 | 20.14 | 20.14 | 20.14 | 20.14 | 38.87 | 38.87 | 38.87 | 38.87 | 49.45 | 49.45 | 49.45 | 49.45 | 54.71 | 54.71 | 54.71 | 54.71 | 82.44 | 82.44 | 82.44 | 82.44 |
| 283440 | 14.49 | 14.49 | 14.49 | 14.49 | 27.83 | 27.83 | 27.83 | 27.83 | 31.49 | 31.49 | 31.49 | 31.49 | 32.02 | 32.02 | 32.02 | 32.02 | 29.87 | 29.87 | 29.87 | 29.87 |
| 283450 | 16.69 | 16.69 | 16.69 | 16.69 | 31.73 | 31.73 | 31.73 | 31.73 | 40.21 | 40.21 | 40.21 | 40.21 | 44.43 | 44.43 | 44.43 | 44.43 | 66.66 | 66.66 | 66.66 | 66.66 |
| 283460 | 19.99 | 19.99 | 19.99 | 19.99 | 34.38 | 34.38 | 34.38 | 34.38 | 34.46 | 34.46 | 34.46 | 34.46 | 34.2 | 34.2 | 34.2 | 34.2 | 30.83 | 30.83 | 30.83 | 30.83 |
| 283470 | 20.94 | 20.94 | 20.94 | 20.94 | 40.47 | 40.47 | 40.47 | 40.47 | 51.49 | 51.49 | 51.49 | 51.49 | 56.97 | 56.97 | 56.97 | 56.97 | 85.83 | 85.83 | 85.83 | 85.83 |
| 283480 | 6.78 | 6.78 | 6.78 | 6.78 | 12.94 | 12.94 | 12.94 | 12.94 | 16.45 | 16.45 | 16.45 | 16.45 | 17.99 | 17.99 | 17.99 | 17.99 | 18.01 | 18.01 | 18.01 | 18.01 |
| 283490 | 8.87 | 8.87 | 8.87 | 8.87 | 15.6 | 15.6 | 15.6 | 15.6 | 19.89 | 19.89 | 19.89 | 19.89 | 22.02 | 22.02 | 22.02 | 22.02 | 33.24 | 33.24 | 33.24 | 33.24 |
| 283500 | 25.94 | 25.94 | 25.94 | 25.94 | 48.11 | 48.11 | 48.11 | 48.11 | 56.09 | 56.09 | 56.09 | 56.09 | 57.53 | 57.53 | 57.53 | 57.53 | 61.04 | 61.04 | 61.04 | 61.04 |
| 283510 | 34.29 | 34.29 | 34.29 | 34.29 | 65.53 | 65.53 | 65.53 | 65.53 | 77.28 | 77.28 | 77.28 | 77.28 | 83.62 | 83.62 | 83.62 | 83.62 | 125.2 | 125.2 | 125.2 | 125.2 |
| 283520 | 9.13 | 9.13 | 9.13 | 9.13 | 17.64 | 17.64 | 17.64 | 17.64 | 20.02 | 20.02 | 20.02 | 20.02 | 21.08 | 21.08 | 21.08 | 21.08 | 31.54 | 31.54 | 31.54 | 31.54 |
| 283530 | 62.73 | 62.73 | 62.73 | 62.73 | 118.58 | 118.58 | 118.58 | 118.58 | 149.28 | 149.28 | 149.28 | 149.28 | 170.6 | 170.6 | 170.6 | 170.6 | 254 | 254 | 254 | 254 |
| 283540 | 23.56 | 23.56 | 23.56 | 23.56 | 44.73 | 44.73 | 44.73 | 44.73 | 56.67 | 56.67 | 56.67 | 56.67 | 62.61 | 62.61 | 62.61 | 62.61 | 93.92 | 93.92 | 93.92 | 93.92 |
| 283550 | 22.9 | 22.9 | 22.9 | 22.9 | 43.74 | 43.74 | 43.74 | 43.74 | 51.64 | 51.64 | 51.64 | 51.64 | 53.83 | 53.83 | 53.83 | 53.83 | 58.33 | 58.33 | 58.33 | 58.33 |
| 283560 | 15.82 | 15.82 | 15.82 | 15.82 | 35.84 | 35.84 | 35.84 | 35.84 | 42.69 | 42.69 | 42.69 | 42.69 | 44.85 | 44.85 | 44.85 | 44.85 | 50.18 | 50.18 | 50.18 | 50.18 |
| 283600 | 44.62 | 44.62 | 44.62 | 44.62 | 91.96 | 91.96 | 91.96 | 91.96 | 121.92 | 121.92 | 121.92 | 121.92 | 136.75 | 136.75 | 136.75 | 136.75 | 205.8 | 205.8 | 205.8 | 205.8 |
| 283610 | 37.73 | 37.73 | 37.73 | 37.73 | 63.54 | 63.54 | 63.54 | 63.54 | 79.54 | 79.54 | 79.54 | 79.54 | 87.98 | 87.98 | 87.98 | 87.98 | 132.06 | 132.06 | 132.06 | 132.06 |
| 283620 | 22.31 | 22.31 | 22.31 | 22.31 | 36.93 | 36.93 | 36.93 | 36.93 | 47.74 | 47.74 | 47.74 | 47.74 | 53.12 | 53.12 | 53.12 | 53.12 | 81.35 | 81.35 | 81.35 | 81.35 |
| 283630 | 9.95 | 9.92 | 9.92 | 9.92 | 11.8 | 11.8 | 11.8 | 11.8 | 12.4 | 12.4 | 12.4 | 12.4 | 12.62 | 12.62 | 12.62 | 12.62 | 15.39 | 15.39 | 15.39 | 15.39 |
| 283640 | 11.11 | 10.8 | 10.8 | 10.8 | 21.99 | 21.99 | 21.99 | 21.99 | 29.26 | 29.26 | 29.26 | 29.26 | 33.2 | 33.2 | 33.2 | 33.2 | 53.91 | 53.91 | 53.91 | 53.91 |
| 283650 | 25.71 | 25.71 | 25.71 | 25.71 | 49.17 | 49.17 | 49.17 | 49.17 | 61.71 | 61.71 | 61.71 | 61.71 | 67.85 | 67.85 | 67.85 | 67.85 | 97.63 | 97.63 | 97.63 | 97.63 |
| 283660 | 19.67 | 19.67 | 19.67 | 19.67 | 40.67 | 40.67 | 40.67 | 40.67 | 52.58 | 52.58 | 52.58 | 52.58 | 58.5 | 58.5 | 58.5 | 58.5 | 89.57 | 89.57 | 89.57 | 89.57 |
| 283670 | 23.31 | 23.31 | 23.31 | 23.31 | 44.99 | 44.99 | 44.99 | 44.99 | 56.69 | 56.69 | 56.69 | 56.69 | 62.35 | 62.35 | 62.35 | 62.35 | 93.44 | 93.44 | 93.44 | 93.44 |
| 283680 | 7.03 | 7.03 | 7.03 | 7.03 | 13.54 | 13.54 | 13.54 | 13.54 | 17.21 | 17.21 | 17.21 | 17.21 | 19.03 | 19.03 | 19.03 | 19.03 | 28.64 | 28.64 | 28.64 | 28.64 |
| 283700 | 65.82 | 65.82 | 65.82 | 65.82 | 117.97 | 117.97 | 117.97 | 117.97 | 127.38 | 127.38 | 127.38 | 127.38 | 130.42 | 130.42 | 130.42 | 130.42 | 139.7 | 139.7 | 139.7 | 139.7 |
| 283710 | 3.04 | 3.04 | 3.04 | 3.04 | 14.43 | 14.43 | 14.43 | 14.43 | 19.02 | 19.02 | 19.02 | 19.02 | 20.59 | 20.59 | 20.59 | 20.59 | 31.55 | 31.55 | 31.55 | 31.55 |
| 283720 | 23.33 | 23.33 | 23.33 | 23.33 | 51.22 | 51.22 | 51.22 | 51.22 | 67.39 | 67.39 | 67.39 | 67.39 | 75.45 | 75.45 | 75.45 | 75.45 | 116.9 | 116.9 | 116.9 | 116.9 |
| 283730 | 32.64 | 32.64 | 32.64 | 32.64 | 63.58 | 63.58 | 63.58 | 63.58 | 81.02 | 81.02 | 81.02 | 81.02 | 89.7 | 89.7 | 89.7 | 89.7 | 135.33 | 135.33 | 135.33 | 135.33 |
| 283740 | 41.13 | 41.13 | 41.13 | 41.13 | 71.99 | 71.99 | 71.99 | 71.99 | 76.86 | 76.86 | 76.86 | 76.86 | 78.23 | 78.23 | 78.23 | 78.23 | 76.09 | 76.09 | 76.09 | 76.09 |
| 283750 | 55.16 | 55.16 | 55.16 | 55.16 | 114.96 | 114.96 | 114.96 | 114.96 | 145.34 | 145.34 | 145.34 | 145.34 | 159.6 | 159.6 | 159.6 | 159.6 | 231.36 | 231.36 | 231.36 | 231.36 |
| 283760 | 3.75 | 3.75 | 3.75 | 3.75 | 16.61 | 16.61 | 16.61 | | | | | | | | | | | | | |

Summary of Flow Results at all Nodes

| Node | 2.33YR24HR | | | | 25YR24HR | | | | 50YR24HR | | | | 100YR24HR | | | | 500YR24HR | | | | |
|--------|-----------------------|---------------------------------|-----------------------|-----------------------------|-----------------------|---------------------------------|-----------------------|-----------------------------|-----------------------|---------------------------------|-----------------------|-----------------------------|-----------------------|---------------------------------|-----------------------|-----------------------------|-----------------------|---------------------------------|-----------------------|-----------------------------|-------|
| | Effective Model (cfs) | Corrected Effective Model (cfs) | Proposed Bridge (cfs) | Proposed Box Culverts (cfs) | Effective Model (cfs) | Corrected Effective Model (cfs) | Proposed Bridge (cfs) | Proposed Box Culverts (cfs) | Effective Model (cfs) | Corrected Effective Model (cfs) | Proposed Bridge (cfs) | Proposed Box Culverts (cfs) | Effective Model (cfs) | Corrected Effective Model (cfs) | Proposed Bridge (cfs) | Proposed Box Culverts (cfs) | Effective Model (cfs) | Corrected Effective Model (cfs) | Proposed Bridge (cfs) | Proposed Box Culverts (cfs) | |
| 300022 | | | 39.94 | 39.94 | | | 42.48 | 42.44 | | | 42.59 | 42.47 | | | 42.28 | 42.01 | | | 38.2 | 37.37 | |
| 300024 | | | 1.35 | 1.35 | | | 2.41 | 2.41 | | | 3.01 | 3.01 | | | 3.32 | 3.32 | | | 4.92 | 4.92 | |
| 300026 | | | 47.79 | 47.79 | | | 55.81 | 55.71 | | | 58.43 | 58.12 | | | 59.13 | 58.7 | | | 58.89 | 57.82 | |
| 300028 | | | 41.92 | 41.8 | | | 40.41 | 39.64 | | | 36.81 | 35.57 | | | 35.23 | 33.99 | | | 36.35 | 35.1 | |
| 300030 | | | 9.18 | 9.18 | | | 16.42 | 16.42 | | | 20.55 | 20.55 | | | 22.61 | 22.61 | | | 33.53 | 33.53 | |
| 300032 | | | 27.09 | 27.09 | | | 45.6 | 45.6 | | | 54.66 | 54.66 | | | 58.65 | 58.65 | | | 75.14 | 75.14 | |
| 300034 | | | 18.41 | 18.41 | | | 18.41 | 18.41 | | | 18.7 | 18.7 | | | 20.11 | 20.11 | | | 24.83 | 24.83 | |
| 230202 | | 8.51 | 8.11 | 8.11 | | 15.42 | 14.86 | 14.86 | | 18.8 | 17.92 | 17.92 | | 20.12 | 19 | 19 | | | 24.17 | 21.92 | 21.92 |

DRAFT

Corrected Effective Model

DRAFT

Corrections for Revised Existing Conditions Model (Corrected Effective Model)

- 1) Corrected CBC dimensions for Delaney Creek Cross Drain under US 41 based on survey

| SWMM Pipe | Survey | | Width | | Height | | Flow lines | | Manning's | |
|--------------|--------|-------|-------|----|--------|----|------------|-------------|-----------|-------|
| | From | To | From | To | From | To | From | To | From | To |
| P210050A | ST-28 | ST-27 | 9.25 | 8 | 12 | 11 | -4.0/-4.1 | -3.54/-3.57 | 0.02 | 0.012 |
| P210050B | ST-28 | ST-27 | 9.25 | 8 | 12 | 11 | -4.0/-4.1 | -3.63/-3.69 | 0.02 | 0.012 |
| P210050C | ST-28 | ST-27 | 9.25 | 8 | 12 | 11 | -4.0/-4.1 | -3.61/-3.70 | 0.02 | 0.012 |

- 2) Corrected Unnamed creek cross drain under US 41 based on survey

| SWMM Pipe | Survey | | Length | | Flow lines | |
|--------------|--------|-------|--------|-----|-------------|-------------|
| | From | From | From | To | From | To |
| P230040A | ST-80 | ST-78 | 112 | 118 | -0.43/-0.51 | -0.43/-0.88 |
| P230040B | ST-80 | ST-78 | 112 | 118 | -0.43/-0.51 | -0.43/-0.81 |

- 3) Corrected Nothernmost cross drain under US 41 based on survey

| SWMM Pipe | Survey | | Length | | Flow lines | | Barrels | | Diameter | |
|--------------|--------|-------|--------|-------|------------|-----------|---------|----|----------|----|
| | From | From | From | To | From | To | From | To | From | To |
| P250070A | ST-97 | ST-95 | 130 | 120.6 | 3.6/3.5 | 0.81/0.85 | 1 | 3 | 42 | 36 |

- 4) Corrected cross drain under CSX just west of US 41 based on survey

| SWMM Pipe | Survey | | Length | | Flow lines | | Roughness | |
|--------------|--------|-------|--------|----|------------|-----------|-----------|-------|
| | From | From | From | To | From | To | From | To |
| P210790A | ST-44 | ST-43 | 65 | 82 | 1.23/1.22 | 1.47/1.41 | 0.013 | 0.012 |
| P210790B | ST-44 | ST-43 | 65 | 82 | 1.25/1.14 | 1.40/1.35 | 0.013 | 0.012 |
| P210790C | ST-44 | ST-43 | 65 | 82 | 1.18/1.17 | 1.36/1.24 | 0.013 | 0.012 |

- 5) Corrected cross drain under Causeway just east of intersection at US 41

| SWMM Pipe | Survey | | Length | | Flow lines | | Depth | |
|--------------|--------|--------|--------|----|------------|-----------|-------|-------|
| | From | From | From | To | From | To | From | To |
| P230200A | ST-259 | ST-263 | 112 | 63 | 3.92/3.77 | 3.88/3.62 | 1.58 | 1.583 |
| P230202A* | ST-263 | ST-275 | | 63 | | 3.58/3.63 | | 2.00 |

*Added dummy node to show change in pipe size

- 6) Corrected weir lengths and elevations along US 41 based on surveyed elevations and LiDAR

| SWMM Weir | Type | | Slope | | Length | | Inlet Offset | | Discharge Coefficient | |
|--------------|------------|---------|-------|-----|--------|------|--------------|-----|-----------------------|-----|
| | From | To | From | To | From | To | From | To | From | To |
| W210050A | Transverse | V-Notch | 0 | 764 | 40 | 917 | 7 | 7.3 | | |
| W210050C | Transverse | V-Notch | 0 | 580 | 40 | 754 | 7 | 7.3 | | |
| W210930A | Transverse | V-Notch | 0 | 269 | 40 | 565 | 7 | 7.2 | | |
| W210960B | Transverse | V-Notch | 0 | 490 | 50 | 784 | 7 | 7.5 | | |
| W250070A | Transverse | V-Notch | 0 | 502 | 40 | 653 | 7.05 | 7.5 | 2.0 | 2.5 |
| W210800B | Transverse | V-Notch | 0 | 417 | 30 | 1043 | 5.2 | 5.0 | | |
| W210970B | Transverse | V-Notch | 0 | 202 | 20 | 384 | 5.77 | 7.3 | 2.0 | 2.5 |

9) Stage Area Updated for nodes within the project area. A merged mesh including the 2011 Hillsborough County LiDAR and survey provided for the project was used to calculate the stage storage within the GIS software.

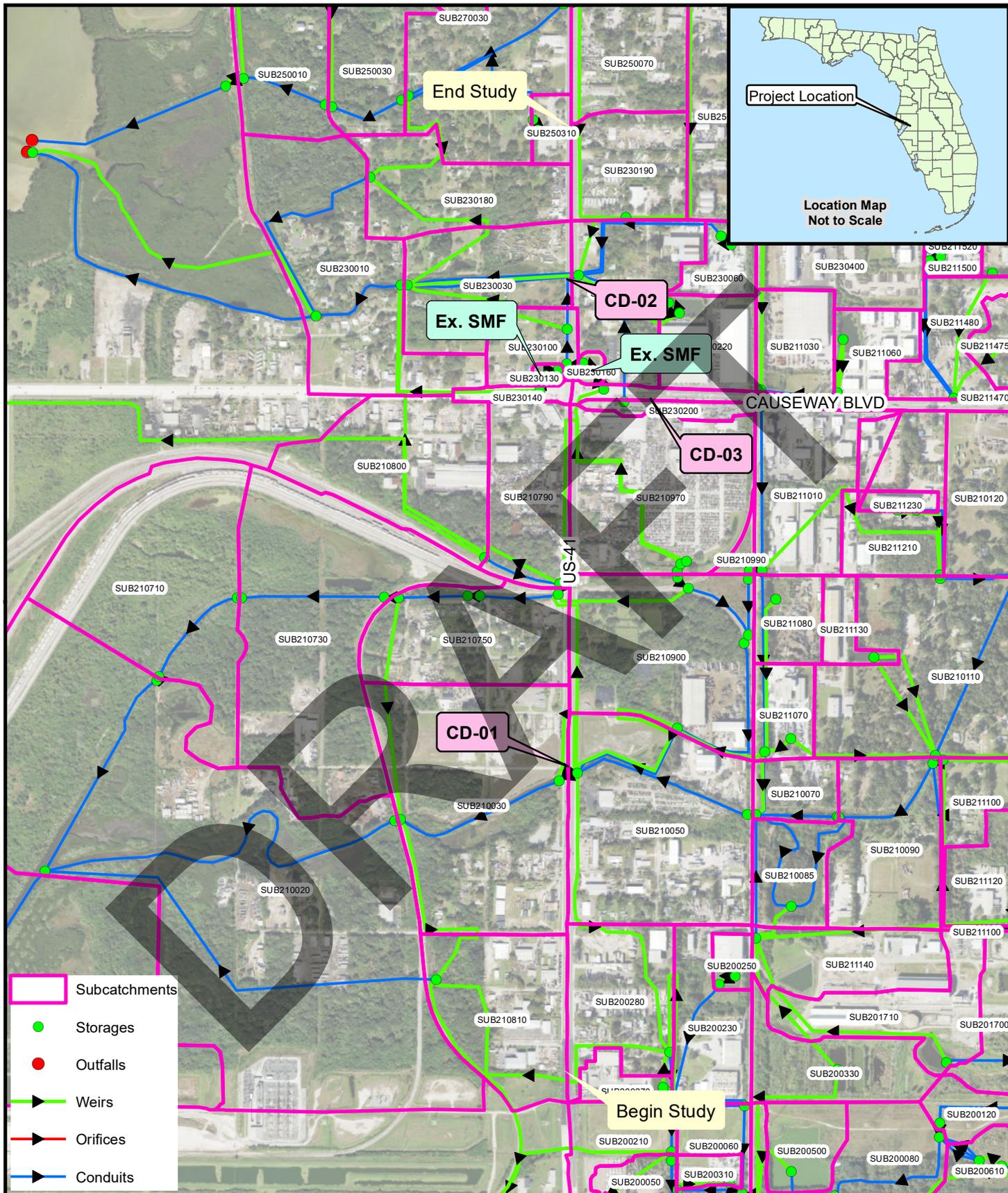
| Node | Effective Model | | Corrected | | Node | Effective Model | | Corrected | |
|--------|-----------------|-------------|------------|-------------|--------|-----------------|-------------|------------|-------------|
| | Depth (ft) | Area (sqft) | Depth (ft) | Area (sqft) | | Depth (ft) | Area (sqft) | Depth (ft) | Area (sqft) |
| 230010 | 0.1 | 78969 | 0.00 | 436 | 230180 | 0 | 500 | 0.00 | 436 |
| | 0.2 | 82008 | 0.22 | 109212 | | 1.1 | 3800 | 0.66 | 25 |
| | 0.3 | 84323 | 0.72 | 117437 | | 1.2 | 7307 | 1.16 | 7030 |
| | 0.4 | 86260 | 1.22 | 152112 | | 1.3 | 12100 | 1.66 | 31256 |
| | 0.5 | 87978 | 1.72 | 163987 | | 1.4 | 16801 | 2.16 | 55480 |
| | 0.6 | 89609 | 2.22 | 185075 | | 1.5 | 21835 | 2.66 | 83640 |
| | 0.7 | 91179 | 2.72 | 231518 | | 1.6 | 27127 | 3.16 | 114487 |
| | 0.8 | 92714 | 3.22 | 285424 | | 1.7 | 32603 | 3.66 | 160195 |
| | 0.9 | 94233 | 3.72 | 345114 | | 2 | 46892 | 4.16 | 233652 |
| | 1.2 | 99567 | 4.22 | 426125 | | 3 | 103514 | 4.66 | 341993 |
| | 2.2 | 124554 | 4.72 | 544247 | | 4 | 201684 | 5.16 | 506606 |
| | 3.2 | 223319 | 5.22 | 726867 | | 5 | 447761 | 5.66 | 680179 |
| | 4.2 | 353111 | 5.72 | 974319 | | 6 | 776502 | 6.16 | 806851 |
| | 5.2 | 661517 | 6.22 | 1249706 | | 7 | 866047 | 6.66 | 852813 |
| | 6.2 | 1348648 | 6.72 | 1519438 | | 8 | 887378 | 7.16 | 870625 |
| | 7.2 | 1664890 | 7.22 | 1697691 | | 9 | 892464 | 7.66 | 886022 |
| | 8.2 | 1695974 | 7.72 | 1768076 | | 9.56 | 893900 | 8.16 | 898225 |
| | 8.98 | 1697550 | 8.22 | 1787178 | | 998 | 893900 | 8.66 | 903768 |
| | 1000.2 | 1697550 | 8.72 | 1790687 | | | | 9.16 | 905895 |
| | | | 9.22 | 1791426 | | | | 9.74 | 906869 |
| | | | 9.72 | 1791906 | | | | 999.00 | 906869 |
| | | | 10.22 | 1792313 | | | | | |
| | | | 10.72 | 1792501 | | | | | |
| | | 11.22 | 1792532 | | | | | | |
| | | 11.72 | 1792585 | | | | | | |
| | | 12.22 | 1792604 | | | | | | |
| | | 12.72 | 1792620 | | | | | | |
| | | 13.22 | 1792645 | | | | | | |
| | | 13.72 | 1792647 | | | | | | |
| | | 14.30 | 1792676 | | | | | | |
| | | 999.00 | 1792676 | | | | | | |
| Node | Effective Model | | Corrected | | Node | Effective Model | | Corrected | |
| | Depth (ft) | Area (sqft) | Depth (ft) | Area (sqft) | | Depth (ft) | Area (sqft) | Depth (ft) | Area (sqft) |
| 230040 | 0 | 436 | 0.00 | 436 | 230030 | 0.1 | 837 | 0.00 | 436 |
| | 1.52 | 436 | 0.55 | 436 | | 0.2 | 1106 | 0.20 | 1636 |
| | 1.53 | 445 | 1.05 | 436 | | 0.3 | 1428 | 0.70 | 38034 |
| | 2.43 | 2037 | 1.55 | 877 | | 0.7 | 36151 | 1.20 | 51082 |
| | 3.43 | 6946 | 2.05 | 1859 | | 1.7 | 82198 | 1.70 | 84395 |
| | 4.43 | 20244 | 2.55 | 2814 | | 2.7 | 153215 | 2.20 | 119451 |
| | 5.43 | 82448 | 3.05 | 4374 | | 3.7 | 301369 | 2.70 | 151167 |
| | 6.43 | 258994 | 3.55 | 7167 | | 4.7 | 608580 | 3.20 | 203844 |
| | 7.43 | 508998 | 4.05 | 12721 | | 5.7 | 828999 | 3.70 | 299483 |
| | 8.43 | 750269 | 4.55 | 21022 | | 6.7 | 928952 | 4.20 | 476858 |
| | 9.43 | 869600 | 5.05 | 42128 | | 7.7 | 959567 | 4.70 | 601177 |
| | 10.43 | 882472 | 5.55 | 85236 | | 8.7 | 970500 | 5.20 | 711344 |
| | 11.43 | 883668 | 6.05 | 159856 | | 8.97 | 970550 | 5.70 | 812785 |
| | 11.87 | 883825 | 6.55 | 267761 | | 999.7 | 970550 | 6.20 | 879506 |
| | 999.43 | 883825 | 7.05 | 402346 | | | | 6.70 | 899776 |
| | | | 7.55 | 513495 | | | | 7.20 | 910641 |

| | | | | | | | | | |
|-------------|------------------------|--------------------|-------------------|--------------------|-------------|------------------------|--------------------|-------------------|--------------------|
| | | | 8.05 | 655338 | | | | 7.70 | 923854 |
| | | | 8.55 | 762208 | | | | 8.20 | 938067 |
| | | | 9.05 | 851417 | | | | 8.70 | 962949 |
| | | | 9.55 | 882009 | | | | 9.36 | 982349 |
| | | | 10.05 | 894436 | | | | 999.00 | 982349 |
| | | | 10.55 | 895702 | | | | | |
| | | | 11.05 | 895914 | | | | | |
| | | | 11.57 | 895936 | | | | | |
| | | | 999.00 | 895936 | | | | | |
| Node | Effective Model | | Corrected | | Node | Effective Model | | Corrected | |
| | Depth (ft) | Area (sqft) | Depth (ft) | Area (sqft) | | Depth (ft) | Area (sqft) | Depth (ft) | Area (sqft) |
| 230200 | 0 | 436 | 0.00 | 436 | 230100 | 0 | 436 | 0.00 | 436 |
| | 1.77 | 436 | 0.76 | 436 | | 2.97 | 436 | 2.62 | 25 |
| | 1.78 | 570 | 1.26 | 436 | | 2.98 | 451 | 3.12 | 1831 |
| | 1.88 | 1073 | 1.76 | 436 | | 3.08 | 1094 | 3.62 | 18775 |
| | 1.98 | 1567 | 2.26 | 1689 | | 3.18 | 2248 | 4.12 | 71974 |
| | 2.08 | 2222 | 2.76 | 4214 | | 3.28 | 3771 | 4.62 | 139058 |
| | 2.18 | 3078 | 3.26 | 21259 | | 3.38 | 6196 | 5.12 | 207341 |
| | 2.28 | 4517 | 3.76 | 46247 | | 3.48 | 9338 | 5.62 | 242020 |
| | 2.38 | 7163 | 4.26 | 58516 | | 4.58 | 140199 | 6.12 | 279395 |
| | 2.48 | 10042 | 4.76 | 66784 | | 5.58 | 265815 | 6.62 | 320731 |
| | 3.08 | 38513 | 5.26 | 81511 | | 6.58 | 331963 | 7.12 | 345554 |
| | 4.08 | 61896 | 5.76 | 106667 | | 7.58 | 352893 | 7.62 | 358986 |
| | 5.08 | 85066 | 6.26 | 128848 | | 7.99 | 352950 | 8.12 | 360356 |
| | 6.08 | 125080 | 6.76 | 137565 | | 998.58 | 352950 | 8.47 | 360380 |
| | 7.08 | 133825 | 7.26 | 140292 | | | | 999.00 | 360380 |
| | 8.08 | 135445 | 7.76 | 141782 | | | | | |
| | 8.82 | 135500 | 8.26 | 142836 | | | | | |
| | 995.08 | 135500 | 8.76 | 143386 | | | | | |
| | | | 9.26 | 143598 | | | | | |
| | | | 9.67 | 143674 | | | | | |
| | | 999.00 | 143674 | | | | | | |
| Node | Effective Model | | Corrected | | Node | Effective Model | | Corrected | |
| | Depth (ft) | Area (sqft) | Depth (ft) | Area (sqft) | | Depth (ft) | Area (sqft) | Depth (ft) | Area (sqft) |
| 210790 | 0 | 436 | 0.00 | 436 | 210750 | 0.1 | 1186 | 0.00 | 436 |
| | 1.41 | 436 | 0.15 | 436 | | 0.2 | 1853 | 0.17 | 2196 |
| | 1.42 | 1071 | 0.65 | 446 | | 0.3 | 2951 | 0.67 | 15971 |
| | 1.52 | 1381 | 1.15 | 674 | | 0.4 | 4683 | 1.17 | 34766 |
| | 1.62 | 1719 | 1.65 | 3334 | | 0.5 | 7440 | 1.67 | 56255 |
| | 1.72 | 2239 | 2.15 | 10480 | | 0.6 | 11535 | 2.17 | 76240 |
| | 1.82 | 3568 | 2.65 | 16864 | | 0.7 | 15792 | 2.67 | 102042 |
| | 1.92 | 5396 | 3.15 | 27484 | | 1.5 | 47219 | 3.17 | 131667 |
| | 2.02 | 6922 | 3.65 | 42866 | | 2.5 | 84684 | 3.67 | 179839 |
| | 2.12 | 8130 | 4.15 | 60808 | | 3.5 | 138187 | 4.17 | 271444 |
| | 2.22 | 9328 | 4.65 | 96822 | | 4.5 | 365267 | 4.67 | 470913 |
| | 2.32 | 10592 | 5.15 | 243107 | | 5.5 | 806420 | 5.17 | 715769 |
| | 2.82 | 17538 | 5.65 | 484800 | | 6.5 | 1010952 | 5.67 | 874721 |
| | 3.82 | 46981 | 6.15 | 643861 | | 7.5 | 1047767 | 6.17 | 979416 |
| | 4.82 | 176550 | 6.65 | 736748 | | 8.39 | 1049400 | 6.67 | 1063929 |
| | 5.82 | 615818 | 7.15 | 786241 | | 998.5 | 1049400 | 7.17 | 1096017 |
| | 6.82 | 777496 | 7.65 | 814979 | | | | 7.67 | 1104926 |
| | 7.82 | 822335 | 8.15 | 833701 | | | | 8.17 | 1108647 |
| | 8.82 | 836175 | 8.65 | 845771 | | | | 8.46 | 1109180 |
| | 8.83 | 836175 | 9.15 | 848059 | | | | 999.00 | 1109180 |

| | 997.82 | 836175 | 9.65 | 848121 | | | | | |
|--------|-----------------|-------------|------------|-------------|---------|-----------------|-------------|------------|-------------|
| | | | 10.08 | 848141 | | | | | |
| | | | 999.00 | 848141 | | | | | |
| Node | Effective Model | | Corrected | | Node | Effective Model | | Corrected | |
| | Depth (ft) | Area (sqft) | Depth (ft) | Area (sqft) | | Depth (ft) | Area (sqft) | Depth (ft) | Area (sqft) |
| 210800 | 0 | 436 | 0.00 | 436 | 210030 | 0 | 436 | 0.00 | 436 |
| | 1.29 | 436 | 0.74 | 436 | | 2.69 | 436 | 0.22 | 2606 |
| | 1.3 | 471 | 1.24 | 595 | | 2.7 | 9299 | 0.72 | 5255 |
| | 1.4 | 688 | 1.74 | 3972 | | 2.8 | 10434 | 1.22 | 8439 |
| | 1.5 | 1020 | 2.24 | 16118 | | 2.9 | 11500 | 1.72 | 11968 |
| | 1.6 | 1602 | 2.74 | 65097 | | 3 | 12598 | 2.22 | 15869 |
| | 1.7 | 2437 | 3.24 | 154875 | | 3.1 | 13600 | 2.72 | 44258 |
| | 1.8 | 3542 | 3.74 | 342555 | | 3.2 | 14476 | 3.22 | 51182 |
| | 2.5 | 35597 | 4.24 | 687855 | | 3.3 | 15275 | 3.72 | 57959 |
| | 3.5 | 319074 | 4.74 | 953383 | | 3.4 | 16006 | 4.22 | 66321 |
| | 4.5 | 937969 | 5.24 | 1131089 | | 3.5 | 16701 | 4.72 | 89276 |
| | 5.5 | 1169798 | 5.74 | 1188241 | | 3.6 | 17395 | 5.22 | 129259 |
| | 6.5 | 1235361 | 6.24 | 1216482 | | 3.7 | 18094 | 5.72 | 193563 |
| | 7.5 | 1284438 | 6.74 | 1249734 | | 4 | 20349 | 6.22 | 268804 |
| | 8.5 | 1301843 | 7.24 | 1280430 | | 5 | 51770 | 6.72 | 346045 |
| | 8.56 | 1301850 | 7.74 | 1306789 | | 6 | 159045 | 7.22 | 432056 |
| | 997.5 | 1301850 | 8.24 | 1315183 | | 7 | 303483 | 7.72 | 560046 |
| | | | 8.57 | 1315965 | | 8 | 592667 | 8.22 | 736347 |
| | | | 999.00 | 1315965 | | 9 | 1290506 | 8.72 | 1020645 |
| | | | | | | 10 | 1959085 | 9.22 | 1385486 |
| | | | | 11 | 2227366 | 9.72 | 1773259 | | |
| | | | | 12 | 2303437 | 10.22 | 2036797 | | |
| | | | | 13 | 2319152 | 10.72 | 2214468 | | |
| | | | | 14 | 2325124 | 11.22 | 2334415 | | |
| | | | | 15 | 2332802 | 11.72 | 2403099 | | |
| | | | | 16 | 2345700 | 12.22 | 2421886 | | |
| | | | | 17 | 2351941 | 12.72 | 2431754 | | |
| | | | | 17.48 | 2352725 | 13.22 | 2438801 | | |
| | | | | 1003 | 2352725 | 13.72 | 2442687 | | |
| | | | | | | 14.22 | 2446030 | | |
| | | | | | | 14.72 | 2449754 | | |
| | | | | | | 15.22 | 2454662 | | |
| | | | | | | 15.72 | 2460321 | | |
| | | | | | | 16.22 | 2467071 | | |
| | | | | | | 16.72 | 2470096 | | |
| | | | | | | 17.22 | 2472321 | | |
| | | | | | | 17.56 | 2472646 | | |
| | | | | | | 999.00 | 2472646 | | |
| Node | Effective Model | | Corrected | | Node | Effective Model | | Corrected | |
| | Depth (ft) | Area (sqft) | Depth (ft) | Area (sqft) | | Depth (ft) | Area (sqft) | Depth (ft) | Area (sqft) |
| 210900 | 0 | 436 | 0.00 | 436 | 210810 | 0 | 436 | 0.00 | 436 |
| | 2.49 | 436 | 1.89 | 436 | | 1.99 | 436 | 1.65 | 436 |
| | 2.5 | 464 | 2.39 | 436 | | 2 | 842 | 2.15 | 4000 |
| | 2.6 | 609 | 2.89 | 2849 | | 2.1 | 1508 | 2.65 | 13752 |
| | 2.7 | 810 | 3.39 | 14070 | | 2.2 | 2537 | 3.15 | 27030 |
| | 3.5 | 18155 | 3.89 | 48730 | | 2.3 | 4439 | 3.65 | 47380 |
| | 4.5 | 123403 | 4.39 | 100630 | | 2.4 | 6557 | 4.15 | 87600 |
| | 5.5 | 375391 | 4.89 | 179865 | | 2.5 | 8699 | 4.65 | 152253 |
| | 6.5 | 940565 | 5.39 | 286698 | | 2.6 | 10966 | 5.15 | 239881 |

| | | | | | | | | | |
|-------|---------|--------|---------|--|--|--------|---------|--------|---------|
| 7.5 | 1377490 | 5.89 | 505147 | | | 3.4 | 35600 | 5.65 | 324836 |
| 8.5 | 1471845 | 6.39 | 866343 | | | 4.4 | 116019 | 6.15 | 448271 |
| 9.5 | 1506928 | 6.89 | 1193192 | | | 5.4 | 286967 | 6.65 | 646470 |
| 10.5 | 1516776 | 7.39 | 1418451 | | | 6.4 | 555942 | 7.15 | 843561 |
| 11.5 | 1521179 | 7.89 | 1513561 | | | 7.4 | 924847 | 7.65 | 981743 |
| 12.5 | 1524819 | 8.39 | 1556316 | | | 8.4 | 1098578 | 8.15 | 1062431 |
| 13.5 | 1529185 | 8.89 | 1585802 | | | 9.4 | 1146203 | 8.65 | 1118416 |
| 14.5 | 1531364 | 9.39 | 1599222 | | | 10.4 | 1148304 | 9.15 | 1148838 |
| 15.5 | 1533162 | 9.89 | 1605660 | | | 11.05 | 1148425 | 9.65 | 1158785 |
| 16.5 | 1534947 | 10.39 | 1611213 | | | 1000.4 | 1148425 | 10.15 | 1160490 |
| 17.5 | 1535812 | 10.89 | 1613712 | | | | | 10.65 | 1160565 |
| 18.5 | 1536473 | 11.39 | 1615489 | | | | | 11.15 | 1160665 |
| 19.5 | 1536973 | 11.89 | 1617165 | | | | | 11.45 | 1160715 |
| 20.5 | 1537284 | 12.39 | 1618574 | | | | | 999.00 | 1160715 |
| 21.13 | 1537375 | 12.89 | 1619930 | | | | | | |
| 998.5 | 1537375 | 13.39 | 1622146 | | | | | | |
| | | 13.89 | 1623103 | | | | | | |
| | | 14.39 | 1624129 | | | | | | |
| | | 14.89 | 1625030 | | | | | | |
| | | 15.39 | 1625896 | | | | | | |
| | | 15.89 | 1626709 | | | | | | |
| | | 16.39 | 1627348 | | | | | | |
| | | 16.89 | 1628082 | | | | | | |
| | | 17.39 | 1628847 | | | | | | |
| | | 17.89 | 1629697 | | | | | | |
| | | 18.39 | 1630556 | | | | | | |
| | | 18.89 | 1631450 | | | | | | |
| | | 19.39 | 1632349 | | | | | | |
| | | 19.89 | 1633206 | | | | | | |
| | | 20.39 | 1634058 | | | | | | |
| | | 20.89 | 1634978 | | | | | | |
| | | 21.39 | 1635984 | | | | | | |
| | | 21.89 | 1637029 | | | | | | |
| | | 22.39 | 1637862 | | | | | | |
| | | 23.00 | 1638262 | | | | | | |
| | | 999.00 | 1638262 | | | | | | |

| Node | Effective Model | | Corrected | | Node | Effective Model | | Corrected | |
|--------|-----------------|-------------|------------|-------------|--------|-----------------|-------------|------------|-------------|
| | Depth (ft) | Area (sqft) | Depth (ft) | Area (sqft) | | Depth (ft) | Area (sqft) | Depth (ft) | Area (sqft) |
| 200280 | 0 | 436 | 0.00 | 436 | 210050 | 0 | 436 | 0.00 | 436 |
| | 0.57 | 436 | 0.47 | 436 | | 3.17 | 436 | 0.34 | 11031 |
| | 0.58 | 734 | 0.97 | 7920 | | 3.18 | 1211 | 0.84 | 15185 |
| | 0.68 | 3129 | 1.47 | 17755 | | 3.28 | 1471 | 1.34 | 19681 |
| | 0.78 | 4878 | 1.97 | 26626 | | 3.38 | 1852 | 1.84 | 24430 |
| | 0.88 | 6212 | 2.47 | 37479 | | 3.48 | 2379 | 2.34 | 28522 |
| | 0.98 | 7210 | 2.97 | 58819 | | 3.58 | 3325 | 2.84 | 30567 |
| | 1.08 | 8113 | 3.47 | 92441 | | 3.68 | 4067 | 3.34 | 35881 |
| | 1.18 | 8976 | 3.97 | 139944 | | 3.78 | 4973 | 3.84 | 62518 |
| | 1.28 | 10122 | 4.47 | 251345 | | 3.88 | 5903 | 4.34 | 71561 |
| | 1.38 | 11518 | 4.97 | 443302 | | 3.98 | 6739 | 4.84 | 84636 |
| | 1.48 | 12918 | 5.47 | 604728 | | 4.08 | 7750 | 5.34 | 97697 |
| | 2.08 | 19870 | 5.97 | 740818 | | 4.78 | 20487 | 5.84 | 110226 |
| | 3.08 | 45791 | 6.47 | 836698 | | 5.78 | 39227 | 6.34 | 125079 |
| | 4.08 | 135477 | 6.97 | 870933 | | 6.78 | 69895 | 6.84 | 150347 |
| 5.08 | 496472 | 7.47 | 881981 | 7.78 | 186832 | 7.34 | 185269 | | |
| 6.08 | 783595 | 7.97 | 884085 | 8.78 | 739490 | 7.84 | 255586 | | |



NOTES:

A- Project: 18033

B- Data From - Imagery, Esri
Dalaney Creek Model

C- This map is intended for planning purposes only. This is not a survey.

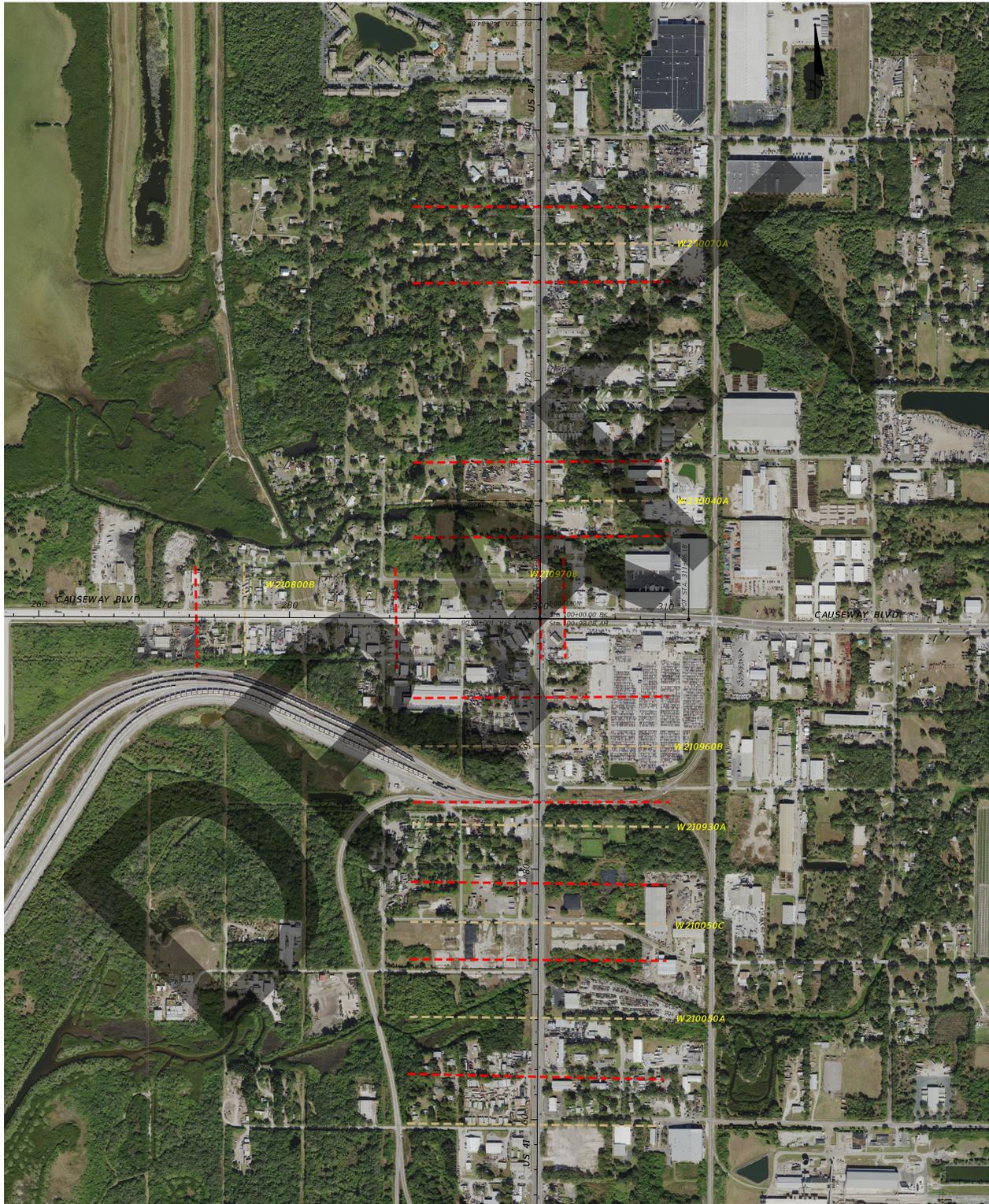
Date: 10/05/2022
Drawn By: VV
Reviewed By: EAL

Explanation of Features

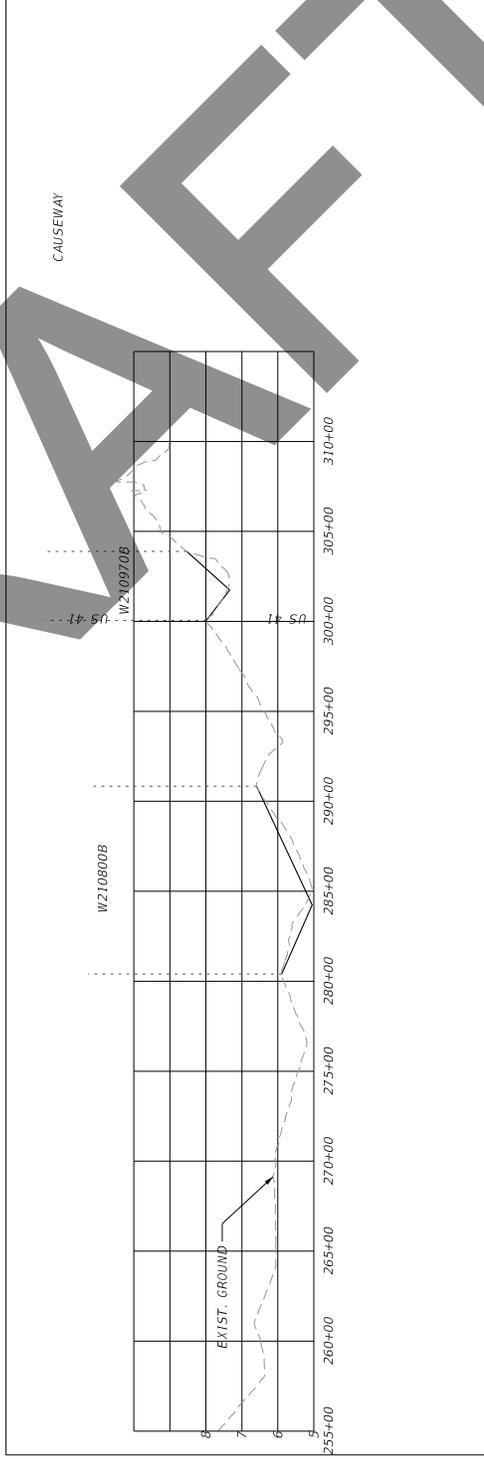
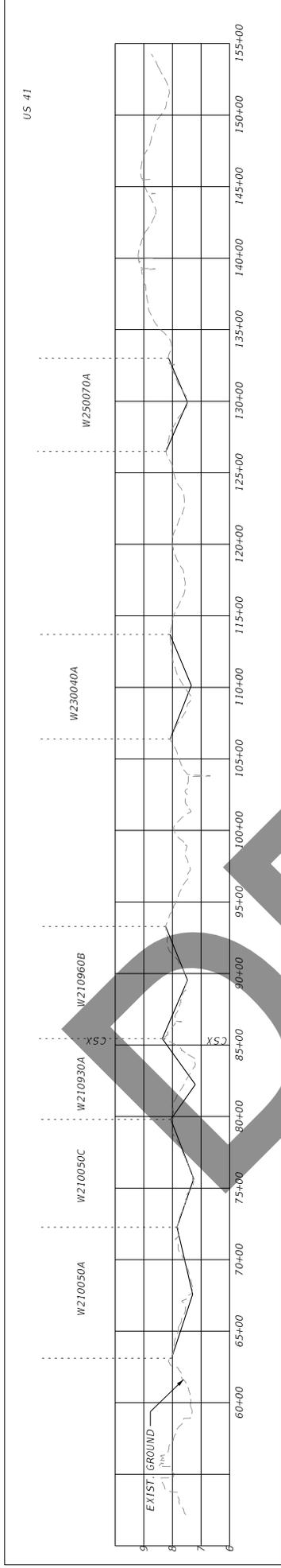


Existing Drainage Map
US41 at CSX
440749-1
Hillsborough County, FL

Modeled Weir Locations



Roadway Profiles



Revised Model

DRAFT

Corrections for Proposed Model (Revised Model)

- 1) New subcatchments were added for the roadway improvements and the proposed ponds. Basin 2 was subdivided into 3 basins due to the proposed bridges at 36th Avenue and CSX. All pond CNs were calculated by assuming CN of 100 for pond at the control elevation and 80 for the rest of the basin. The areas shown in the table have been rounded.

| Element | Subcatchment | Area (acres) | TC (minutes) | CN |
|----------|--------------|--------------|--------------|-------|
| Basin 1 | SUB300010 | 5.858 | 30 | 98.00 |
| Pond 1 | SUB300012 | 3.996 | 20 | 91.18 |
| Basin 2B | SUB300020 | 2.184 | 30 | 98.00 |
| Basin 2C | SUB300022 | 4.010 | 30 | 98.00 |
| Basin 2A | SUB300024 | 0.861 | 30 | 98.00 |
| Pond 2 | SUB300026 | 3.005 | 20 | 90.45 |
| Basin 3 | SUB300030 | 5.291 | 25 | 98.00 |
| Pond 3 | SUB300032 | 3.997 | 20 | 91.27 |

- 2) The existing subcatchment areas and curve numbers were updated to reflect the insertion of the new roadway and pond basins. The areas shown in the table have been rounded. The revised values in the model were verified to balance with the existing model when added to the new basins and ponds. SUB230170 was increased to reflect the roadway widening within the existing basin. SUB230130 was the existing pond on the NW corner of the US 19 and Causeway intersection and has been combined with Pond 3. SUB230140 was replaced with SUB300030.

| Subcatchment | Area (acres) | | Curve Number | |
|--------------|--------------|--------|--------------|-------|
| | From | To | From | To |
| SUB200280 | 20.320 | 18.851 | 94.71 | 93.18 |
| SUB210030 | 56.768 | 49.814 | 88.8 | 82.25 |
| SUB210050 | 46.835 | 44.111 | 93.66 | 90.58 |
| SUB210750 | 25.463 | 24.667 | 86.45 | 81.97 |
| SUB210790 | 19.471 | 20.225 | 90.51 | 90.66 |
| SUB210800 | 30.211 | 30.110 | 87.53 | 87.09 |
| SUB210810 | 26.646 | 25.272 | 87.83 | 87.86 |
| SUB210900 | 37.611 | 34.687 | 83.97 | 84.97 |
| SUB210970 | 36.825 | 32.608 | 94.94 | 94.17 |
| SUB230010 | 41.154 | 36.817 | 91.33 | 86.47 |
| SUB230030 | 22.552 | 22.552 | 83.6 | 85.59 |
| SUB230040 | 20.572 | 20.434 | 92.01 | 93.01 |
| SUB230100 | 8.275 | 7.018 | 87.3 | 82.43 |
| SUB230140 | 2.433 | -- | 92.19 | -- |
| SUB230160 | 1.032 | 0.837 | 97.76 | 97.76 |
| SUB230170 | 8.588 | 8.731 | 92.01 | 98.00 |
| SUB230180 | 20.819 | 20.819 | 84.52 | 78.40 |
| SUB230200 | 3.296 | 3.195 | 94.88 | 93.96 |
| SUB230130 | 0.857 | -- | 97.95 | -- |

3) Weirs were modified and removed to reflect the profile changes along US 41 and Causeway.

| SWMM | Name | | Node | | | | Length | | Inlet Offset | | Slope | |
|----------|--|----------|--------|--------|--------|--------|--------|-------|--------------|-----|-------|-----|
| | | | Inlet | | Outlet | | From | To | From | To | From | To |
| Weir | From | To | From | To | From | To | From | To | From | To | From | To |
| W210050A | | | | | | | 917 | 149.8 | | | | |
| W210930A | | | | | | | 565 | 414 | | | | |
| W210970B | W210970B | W21970B | 210970 | 210970 | 230170 | 300022 | 384 | 50 | 7.3 | 6 | 202 | 0 |
| W210960B | W210960B | W300022A | 210960 | 300022 | 210790 | 230170 | 784 | 784 | 7.5 | 7.5 | 490 | 490 |
| W210050C | Removed from model due to profile changes along US 41. | | | | | | | | | | | |
| W210960B | Removed from model due to profile changes along Causeway. | | | | | | | | | | | |
| W210800B | Removed from model due to profile changes along Causeway. | | | | | | | | | | | |
| W230140A | Removed from model due to changes in proposed design. | | | | | | | | | | | |
| W230160A | Removed from model due to pond reconfiguration in proposed design. | | | | | | | | | | | |
| W230160B | Removed from model due to pond reconfiguration in proposed design. | | | | | | | | | | | |
| W230130B | Removed from model due to pond reconfiguration in proposed design. | | | | | | | | | | | |
| W230130A | Removed from model due to pond reconfiguration in proposed design. | | | | | | | | | | | |

4) New weirs were added for the proposed ponds.

| Name | Node | | Type | Height | Length | Invert |
|----------|--------|--------|------------|--------|--------|--------|
| | Inlet | Outlet | | | | |
| W300012A | 300012 | 300014 | Transverse | 1.57 | 0.5 | 4.15 |
| W300012B | 300012 | 300014 | Transverse | 999 | 14.32 | 5.8 |
| W300026A | 300026 | 300028 | Transverse | 2.97 | 8 | 4.03 |
| W300026B | 300026 | 300028 | Transverse | 999 | 14.32 | 7 |
| W300032A | 300032 | 300034 | Transverse | 1.66 | 8 | 3.2 |
| W300032B | 300032 | 300034 | Transverse | 999 | 14.32 | 4.86 |

5) New orifices were added for the proposed ponds.

| Name | Node | | Type | Height | Length | Invert |
|----------|--------|--------|--------|--------|--------|--------|
| | Inlet | Outlet | | | | |
| O300012A | 300012 | 300014 | Bottom | 0.33 | 0 | 3.8 |
| O300026 | 300026 | 300028 | Bottom | 0.33 | 0 | 3.6 |

6) The following pipes were removed from the model to accommodate the proposed design changes.

| Link | Description |
|----------|--|
| P210050A | Existing pipe at Delaney Creek |
| P210050B | Existing pipe at Delaney Creek |
| P210050C | Existing pipe at Delaney Creek |
| P230150A | Existing outfall pipe from pond at NE corner of Causeway and US 41 |

- 7) The following pipes were updated to accommodate the proposed roadway widening and the revisions to the existing ponds.

| SWMM | Name | | Node | | | | Depth | | Length | |
|----------|----------|----------|--------|--------|--------|--------|-------|-----|--------|-----|
| | | | Inlet | | Outlet | | From | To | From | To |
| Pipe | From | To | From | To | From | To | From | To | From | To |
| P230140A | P230140A | P300030A | 230140 | 300030 | 230130 | 300032 | 2.5 | 2.5 | 41 | 41 |
| P230120A | P230120A | P300034A | 230120 | 300034 | 230110 | 230110 | 2.5 | 2.5 | 74 | 74 |
| P230040A | | | 230040 | 230040 | 230030 | 230030 | 3.5 | 4 | 118 | 150 |
| P230040B | | | 230040 | 230040 | 230030 | 230030 | 3.5 | 4 | 118 | 150 |

- 8) New Pipes Links were added to drain the new basins to the ponds and to drain the ponds to the outfall locations

| Name | Node | | Depth (ft) | Length (ft) | Roughness | US invert (ft) | DS invert (ft) |
|----------|--------|--------|------------|-------------|-----------|----------------|----------------|
| | From | To | | | | | |
| P300010A | 300010 | 300012 | 3 | 110 | 0.012 | 1.7 | 1.2 |
| P300014A | 300014 | 210030 | 3 | 290 | 0.012 | 1 | -0.5 |
| P300020A | 300020 | 300026 | 4 | 200 | 0.012 | -0.67 | -1 |
| P300028A | 300028 | 210040 | 4 | 900 | 0.012 | -1 | -1.3 |
| P300024A | 300024 | 300020 | 3 | 78 | 0.012 | -0.61 | -0.69 |
| P300022A | 300022 | 300020 | 3.5 | 310 | 0.012 | 0.66 | 0.36 |
| P230160A | 230160 | 300032 | 2.5 | 200 | 0.012 | 1.83 | 1.83 |

- 9) New Channel Link was added for the bridge over Delaney Creek

| Name | From | To | Shape | Depth (ft) | Length (ft) | US invert (ft) | DS Invert (ft) |
|----------|--------|--------|-----------|------------|-------------|----------------|----------------|
| C210050A | 210050 | 210040 | IRREGULAR | 14.9 | 325 | -3.9 | -4.1 |

| Station | Elevation | Roughness |
|---------|-----------|-----------|
| 0 | 11 | 0.035 |
| 8 | 7 | 0.035 |
| 18 | 7 | 0.035 |
| 39.8 | -3.9 | 0.055 |
| 50.8 | -3.9 | 0.055 |
| 72.6 | 7 | 0.035 |
| 82.6 | 7 | 0.035 |
| 90.6 | 11 | 0.035 |

- 10) The upstream and downstream channel links at Delaney Creek were updated to remove the length of the new channel link at the bridge. The overall total length is constant between the revised existing and proposed models.

| Link | Length | | US Invert (ft) | | DS Invert (ft) | |
|----------|--------|------|----------------|------|----------------|------|
| | From | To | From | To | From | To |
| C210060A | 1400 | 1215 | | | -4 | -4.2 |
| C210040A | 1320 | 1300 | -3.9 | -4.5 | | |

- 11) Storage Unit 210040 invert elevation was lowered from -3.9 to -4.5 to match the revised channel bottom.

12) Stage Area Updated for nodes within the project area. A merged mesh including the 2011 Hillsborough County LiDAR, survey and proposed surface for the project was used to calculate the stage storage within the GIS software.

| Node | Corrected Model | | Revised Model | | Node | Corrected Model | | Revised Model | |
|-------------|-----------------|------------------------|--------------------|------------------------|------------------------|----------------------|----------------------|--------------------|-------------|
| | Depth (ft) | Area (sqft) | Depth (ft) | Area (sqft) | | Depth (ft) | Area (sqft) | Depth (ft) | Area (sqft) |
| 230010 | 0.00 | 436 | 0.00 | 436 | 230180 | 0.00 | 436 | 0.00 | 436 |
| | 0.22 | 109212 | 0.22 | 109212 | | 0.66 | 436 | 0.66 | 436 |
| | 0.72 | 117437 | 0.72 | 117437 | | 1.16 | 7030 | 1.16 | 7030 |
| | 1.22 | 152112 | 1.22 | 152112 | | 1.66 | 31256 | 1.66 | 31256 |
| | 1.72 | 163987 | 1.72 | 163987 | | 2.16 | 55480 | 2.16 | 55480 |
| | 2.22 | 185075 | 2.22 | 185075 | | 2.66 | 83640 | 2.66 | 83640 |
| | 2.72 | 231518 | 2.72 | 231518 | | 3.16 | 114487 | 3.16 | 114487 |
| | 3.22 | 285424 | 3.22 | 285424 | | 3.66 | 160195 | 3.66 | 160195 |
| | 3.72 | 345114 | 3.72 | 345053 | | 4.16 | 233652 | 4.16 | 233652 |
| | 4.22 | 426125 | 4.22 | 425936 | | 4.66 | 341993 | 4.66 | 341993 |
| | 4.72 | 544247 | 4.72 | 544027 | | 5.16 | 506606 | 5.16 | 506587 |
| | 5.22 | 726867 | 5.22 | 726455 | | 5.66 | 680179 | 5.66 | 679636 |
| | 5.72 | 974319 | 5.72 | 971789 | | 6.16 | 806851 | 6.16 | 805138 |
| | 6.22 | 1249706 | 6.22 | 1220724 | | 6.66 | 852813 | 6.66 | 848695 |
| | 6.72 | 1519438 | 6.72 | 1425681 | | 7.16 | 870625 | 7.16 | 863407 |
| | 7.22 | 1697691 | 7.22 | 1542145 | | 7.66 | 886022 | 7.66 | 881810 |
| | 7.72 | 1768076 | 7.72 | 1582537 | | 8.16 | 898225 | 8.16 | 896676 |
| | 8.22 | 1787178 | 8.22 | 1596444 | | 8.66 | 903768 | 8.66 | 903768 |
| | 8.72 | 1790687 | 8.72 | 1601964 | | 9.16 | 905895 | 9.16 | 905895 |
| | 9.22 | 1791426 | 9.22 | 1602687 | | 9.74 | 906869 | 9.74 | 906869 |
| 9.72 | 1791906 | 9.72 | 1603121 | 999.00 | 906869 | 999.00 | 906869 | | |
| 10.22 | 1792313 | 10.22 | 1603504 | Corrected Model | | Revised Model | | | |
| 10.72 | 1792501 | 10.72 | 1603665 | Depth (ft) | Area (sqft) | Depth (ft) | Area (sqft) | | |
| 11.22 | 1792532 | 11.22 | 1603676 | 230040 | 0.00 | 436 | 0.00 | 436 | |
| 11.72 | 1792585 | 11.72 | 1603711 | | 0.55 | 436 | 0.55 | 436 | |
| 12.22 | 1792604 | 12.22 | 1603718 | | 1.05 | 436 | 1.05 | 436 | |
| 12.72 | 1792620 | 12.72 | 1603734 | | 1.55 | 877 | 1.55 | 824 | |
| 13.22 | 1792645 | 13.22 | 1603759 | | 2.05 | 1859 | 2.05 | 1740 | |
| 13.72 | 1792647 | 13.72 | 1603761 | | 2.55 | 2814 | 2.55 | 2577 | |
| 14.30 | 1792676 | 14.30 | 1603790 | | 3.05 | 4374 | 3.05 | 3940 | |
| 999.00 | 1792676 | 999.00 | 1603790 | | 3.55 | 7167 | 3.55 | 6486 | |
| Node | | Corrected Model | | | Corrected Model | | Revised Model | | |
| | | Depth (ft) | Area (sqft) | | Depth (ft) | Area (sqft) | Depth (ft) | Area (sqft) | |
| 230030 | 0.00 | 436 | 0.00 | | 436 | 4.05 | 12721 | 4.05 | 11822 |
| | 0.20 | 1636 | 0.20 | | 1535 | 4.55 | 21022 | 4.55 | 19786 |
| | 0.70 | 38034 | 0.70 | | 37873 | 5.05 | 42128 | 5.05 | 40548 |
| | 1.20 | 51082 | 1.20 | | 50717 | 5.55 | 85236 | 5.55 | 83543 |
| | 1.70 | 84395 | 1.70 | 83790 | 6.05 | 159856 | 6.05 | 158278 | |
| | 2.20 | 119451 | 2.20 | 118569 | 6.55 | 267761 | 6.55 | 264513 | |
| | 2.70 | 151167 | 2.70 | 149821 | 7.05 | 402346 | 7.05 | 396555 | |
| | 3.20 | 203844 | 3.20 | 201591 | 7.55 | 513495 | 7.55 | 510846 | |
| | 3.70 | 299483 | 3.70 | 296186 | 8.05 | 655338 | 8.05 | 656244 | |
| | | | | | 8.55 | 762208 | 8.55 | 757745 | |
| | | | | 9.05 | 851417 | 9.05 | 845331 | | |

| | | | | | | | | | | |
|-------------|------------------------|------------------------|----------------------|----------------------|-------------|------------------------|--------------------|----------------------|--------------------|-----|
| | 4.20 | 476858 | 4.20 | 472239 | | 9.55 | 882009 | 9.55 | 875452 | |
| | 4.70 | 601177 | 4.70 | 594602 | | 10.05 | 894436 | 10.05 | 888091 | |
| | 5.20 | 711344 | 5.20 | 702584 | | 10.55 | 895702 | 10.55 | 889689 | |
| | 5.70 | 812785 | 5.70 | 801935 | | 11.05 | 895914 | 11.05 | 889901 | |
| | 6.20 | 879506 | 6.20 | 867693 | | 11.57 | 895936 | 11.57 | 889923 | |
| | 6.70 | 899776 | 6.70 | 887512 | | 999.00 | 895936 | 999.00 | 889923 | |
| | 7.20 | 910641 | 7.20 | 899513 | Node | Corrected Model | | Revised Model | | |
| | 7.70 | 923854 | 7.70 | 919348 | | Depth (ft) | Area (sqft) | Depth (ft) | Area (sqft) | |
| | 8.20 | 938067 | 8.20 | 946082 | 230200 | 0.00 | 436 | 0.00 | 436 | |
| | 8.70 | 962949 | 8.70 | 966897 | | 0.76 | 436 | 1.56 | 436 | |
| | 9.36 | 982349 | 9.32 | 982349 | | 1.26 | 436 | 2.06 | 436 | |
| | 999.00 | 982349 | 999.00 | 982349 | | 1.76 | 436 | 2.56 | 1930 | |
| Node | Corrected Model | | Revised Model | | | 2.26 | 1689 | 3.06 | 8160 | |
| | Depth (ft) | Area (sqft) | Depth (ft) | Area (sqft) | | 2.76 | 4214 | 3.56 | 33660 | |
| 230100 | 0.00 | 436 | 0.00 | 436 | | 3.26 | 21259 | 4.06 | 48186 | |
| | 2.62 | 25 | 1.65 | 436 | | 3.76 | 46247 | 4.56 | 57179 | |
| | 3.12 | 1831 | 2.15 | 436 | | 4.26 | 58516 | 5.06 | 68211 | |
| | 3.62 | 18775 | 2.65 | 650 | | 4.76 | 66784 | 5.56 | 89640 | |
| | 4.12 | 71974 | 3.15 | 3323 | | 5.26 | 81511 | 6.06 | 116760 | |
| | 4.62 | 139058 | 3.65 | 22344 | | 5.76 | 106667 | 6.56 | 132018 | |
| | 5.12 | 207341 | 4.15 | 77098 | | 6.26 | 128848 | 7.06 | 134775 | |
| | 5.62 | 242020 | 4.65 | 140516 | | 6.76 | 137565 | 7.56 | 136920 | |
| | 6.12 | 279395 | 5.15 | 188969 | | 7.26 | 140292 | 8.06 | 138027 | |
| | 6.62 | 320731 | 5.65 | 209822 | | 7.76 | 141782 | 8.56 | 138845 | |
| | 7.12 | 345554 | 6.15 | 225771 | | 8.26 | 142836 | 9.06 | 139100 | |
| | 7.62 | 358986 | 6.65 | 246233 | | 8.76 | 143386 | 9.67 | 139248 | |
| | 8.12 | 360356 | 7.15 | 275906 | | 9.26 | 143598 | 999.00 | 139248 | |
| | 8.47 | 360380 | 7.65 | 297834 | | 9.67 | 143674 | | | |
| | 999.00 | 360380 | 8.15 | 305662 | 999.00 | 143674 | | | | |
| | | | 8.65 | 305662 | Node | Corrected Model | | Revised Model | | |
| | | | 8.93 | 305673 | | Depth (ft) | Area (sqft) | Depth (ft) | Area (sqft) | |
| | | | 999.00 | 305673 | 210790 | 0.00 | 436 | 0.00 | 436 | |
| | Node | Corrected Model | | Revised Model | | 0.15 | 436 | 0.15 | 436 | |
| | | Depth (ft) | Area (sqft) | Depth (ft) | | Area (sqft) | 0.65 | 446 | 0.65 | 446 |
| 210800 | 0.00 | 436 | 0.00 | 436 | | 1.15 | 674 | 1.15 | 674 | |
| | 0.74 | 436 | 0.74 | 436 | | 1.65 | 3334 | 1.65 | 3334 | |
| | 1.24 | 595 | 1.24 | 595 | | 2.15 | 10480 | 2.15 | 10479 | |
| | 1.74 | 3972 | 1.74 | 3972 | | 2.65 | 16864 | 2.65 | 16855 | |
| | 2.24 | 16118 | 2.24 | 16118 | | 3.15 | 27484 | 3.15 | 27491 | |
| | 2.74 | 65097 | 2.74 | 65087 | | 3.65 | 42866 | 3.65 | 42854 | |
| | 3.24 | 154875 | 3.24 | 153775 | | 4.15 | 60808 | 4.15 | 61077 | |
| | 3.74 | 342555 | 3.74 | 334428 | | 4.65 | 96822 | 4.65 | 98830 | |
| | 4.24 | 687855 | 4.24 | 675487 | | 5.15 | 243107 | 5.15 | 246244 | |
| | 4.74 | 953383 | 4.74 | 940859 | | 5.65 | 484800 | 5.65 | 486648 | |
| | 5.24 | 1131089 | 5.24 | 1119922 | | 6.15 | 643861 | 6.15 | 650477 | |
| | 5.74 | 1188241 | 5.74 | 1182297 | 6.65 | 736748 | 6.65 | 750289 | | |

| | | | | |
|--------|-----------------|-------------|---------------|-------------|
| | 6.24 | 1216482 | 6.24 | 1212069 |
| | 6.74 | 1249734 | 6.74 | 1245321 |
| | 7.24 | 1280430 | 7.24 | 1276017 |
| | 7.74 | 1306789 | 7.74 | 1302376 |
| | 8.24 | 1315183 | 8.24 | 1310770 |
| | 8.57 | 1315965 | 8.57 | 1311552 |
| | 999.00 | 1315965 | 999.00 | 1311552 |
| Node | Corrected Model | | Revised Model | |
| | Depth (ft) | Area (sqft) | Depth (ft) | Area (sqft) |
| 210970 | 0.00 | 436 | 0.00 | 436 |
| | 0.70 | 4625 | 0.70 | 4625 |
| | 1.20 | 31900 | 1.20 | 31900 |
| | 1.70 | 47067 | 1.70 | 47067 |
| | 2.20 | 58896 | 2.20 | 59038 |
| | 2.70 | 90375 | 2.70 | 90400 |
| | 3.20 | 252344 | 3.20 | 242050 |
| | 3.70 | 580951 | 3.70 | 522357 |
| | 4.20 | 971471 | 4.20 | 805394 |
| | 4.70 | 1256644 | 4.70 | 1060770 |
| | 5.20 | 1427930 | 5.20 | 1226952 |
| | 5.70 | 1510849 | 5.70 | 1309680 |
| | 6.20 | 1544248 | 6.20 | 1343547 |
| | 6.70 | 1569158 | 6.70 | 1368877 |
| | 7.20 | 1582235 | 7.20 | 1382307 |
| | 7.70 | 1589310 | 7.70 | 1389705 |
| | 8.20 | 1596846 | 8.20 | 1397521 |
| | 8.70 | 1599856 | 8.70 | 1400786 |
| | 9.20 | 1601604 | 9.20 | 1402766 |
| | 9.70 | 1602331 | 9.70 | 1403716 |
| | 10.20 | 1602736 | 10.20 | 1404341 |
| | 10.70 | 1603119 | 10.70 | 1404928 |
| | 11.20 | 1603467 | 11.20 | 1405482 |
| | 11.70 | 1603792 | 11.70 | 1406028 |
| | 12.15 | 1604026 | 12.20 | 1406547 |
| | 999.00 | 1604026 | 12.70 | 1406987 |
| | | 13.20 | 1407409 | |
| | | 13.70 | 1407821 | |
| | | 14.20 | 1408226 | |
| | | 14.70 | 1408620 | |
| | | 15.20 | 1408986 | |
| | | 15.70 | 1409337 | |
| | | 16.20 | 1409682 | |
| | | 16.70 | 1410005 | |
| | | 17.20 | 1410321 | |
| | | 17.70 | 1410624 | |
| | | 18.20 | 1410917 | |

| | | | | |
|--|--------|--------|-------|--------|
| | 7.15 | 786241 | 7.15 | 807472 |
| | 7.65 | 814979 | 7.65 | 838969 |
| | 8.15 | 833701 | 8.15 | 857884 |
| | 8.65 | 845771 | 8.65 | 870132 |
| | 9.15 | 848059 | 9.15 | 872596 |
| | 9.65 | 848121 | 9.65 | 872817 |
| | 10.08 | 848141 | 10.15 | 873000 |
| | 999.00 | 848141 | 10.65 | 873139 |
| | | | 11.15 | 873275 |
| | | | 11.65 | 873411 |
| | | | 12.15 | 873529 |
| | | | 12.65 | 873657 |
| | | | 13.15 | 873780 |
| | | | 13.65 | 873887 |
| | | | 14.15 | 874010 |
| | | | 14.65 | 874125 |
| | | | 15.15 | 874251 |
| | | | 15.65 | 874370 |
| | | | 16.15 | 874491 |
| | | | 16.65 | 874613 |
| | | | 17.15 | 874722 |
| | | | 17.65 | 874835 |
| | | | 18.15 | 874943 |
| | | | 18.65 | 875055 |
| | | | 19.15 | 875165 |
| | | | 19.65 | 875319 |
| | | | 20.15 | 875441 |
| | | | 20.65 | 875562 |
| | | | 21.15 | 875677 |
| | | | 21.65 | 875790 |
| | | | 22.15 | 875903 |
| | | | 22.65 | 876015 |
| | | | 23.15 | 876128 |
| | | | 23.65 | 876240 |
| | | | 24.15 | 876363 |
| | | | 24.65 | 876482 |
| | | | 25.15 | 876606 |
| | | | 25.65 | 876725 |
| | | | 26.15 | 876845 |
| | | | 26.65 | 876963 |
| | | | 27.15 | 877073 |
| | | | 27.65 | 877182 |
| | | | 28.15 | 877295 |
| | | | 28.65 | 877417 |
| | | | 29.15 | 877538 |
| | | | 29.65 | 877659 |

| Node | Corrected Model | | Revised Model | | 8.17 | 1108647 | 8.17 | 1068766 |
|--------|-----------------|-------------|---------------|-------------|--------|---------|---------|---------|
| | Depth (ft) | Area (sqft) | Depth (ft) | Area (sqft) | | | | |
| 210900 | 0.00 | 436 | 0.00 | 436 | 999.00 | 1109180 | 9.17 | 1069572 |
| | 1.89 | 436 | 1.91 | 436 | | | 9.67 | 1069577 |
| | 2.39 | 436 | 2.41 | 436 | | | 10.17 | 1069580 |
| | 2.89 | 2849 | 2.91 | 1872 | | | 10.67 | 1069583 |
| | 3.39 | 14070 | 3.41 | 13244 | | | 11.17 | 1069588 |
| | 3.89 | 48730 | 3.91 | 48382 | | | 11.67 | 1069590 |
| | 4.39 | 100630 | 4.41 | 100990 | | | 12.17 | 1069596 |
| | 4.89 | 179865 | 4.91 | 177857 | | | 12.67 | 1069600 |
| | 5.39 | 286698 | 5.41 | 283502 | | | 13.17 | 1069600 |
| | 5.89 | 505147 | 5.91 | 491646 | | | 13.67 | 1069606 |
| | 6.39 | 866343 | 6.41 | 820904 | | | 14.17 | 1069609 |
| | 6.89 | 1193192 | 6.91 | 1106976 | | | 14.67 | 1069612 |
| | 7.39 | 1418451 | 7.41 | 1305450 | | | 15.17 | 1069617 |
| | 7.89 | 1513561 | 7.91 | 1383018 | | | 15.67 | 1069620 |
| | 8.39 | 1556316 | 8.41 | 1422045 | | | 16.17 | 1069623 |
| | 8.89 | 1585802 | 8.91 | 1451012 | | | 16.67 | 1069627 |
| | 9.39 | 1599222 | 9.41 | 1463993 | | | 17.17 | 1069632 |
| | 9.89 | 1605660 | 9.91 | 1470290 | | | 17.67 | 1069633 |
| | 10.39 | 1611213 | 10.41 | 1475722 | | | 18.17 | 1069640 |
| | 10.89 | 1613712 | 10.91 | 1478162 | | | 18.67 | 1069642 |
| | 11.39 | 1615489 | 11.41 | 1479942 | | | 19.17 | 1069646 |
| | 11.89 | 1617165 | 11.91 | 1481606 | | | 19.67 | 1069650 |
| | 12.39 | 1618574 | 12.41 | 1483020 | | | 20.17 | 1069655 |
| | 12.89 | 1619930 | 12.91 | 1484415 | | | 20.67 | 1069657 |
| | 13.39 | 1622146 | 13.41 | 1486611 | | | 21.17 | 1069661 |
| | 13.89 | 1623103 | 13.91 | 1487564 | | | 21.67 | 1069666 |
| | 14.39 | 1624129 | 14.41 | 1488580 | | | 22.17 | 1069672 |
| | 14.89 | 1625030 | 14.91 | 1489489 | | | 22.67 | 1069673 |
| | 15.39 | 1625896 | 15.41 | 1490368 | | | 23.17 | 1069678 |
| | 15.89 | 1626709 | 15.91 | 1491184 | | | 23.67 | 1069681 |
| 16.39 | 1627348 | 16.41 | 1491822 | | | 24.17 | 1069688 | |
| 16.89 | 1628082 | 16.91 | 1492563 | | | 24.67 | 1069691 | |
| 17.39 | 1628847 | 17.41 | 1493337 | | | 25.17 | 1069693 | |
| 17.89 | 1629697 | 17.91 | 1494191 | | | 25.67 | 1069698 | |
| 18.39 | 1630556 | 18.41 | 1495061 | | | 26.17 | 1069701 | |
| 18.89 | 1631450 | 18.91 | 1495962 | | | 26.67 | 1069707 | |
| 19.39 | 1632349 | 19.41 | 1496871 | | | 27.17 | 1069710 | |
| 19.89 | 1633206 | 19.91 | 1497722 | | | 27.67 | 1069713 | |
| 20.39 | 1634058 | 20.41 | 1498588 | | | 28.17 | 1069719 | |
| 20.89 | 1634978 | 20.91 | 1499514 | | | 28.67 | 1069722 | |
| 21.39 | 1635984 | 21.41 | 1500528 | | | 29.17 | 1069726 | |
| 21.89 | 1637029 | 21.91 | 1501583 | | | 29.67 | 1069731 | |
| 22.39 | 1637862 | 22.41 | 1502404 | | | 30.17 | 1069734 | |

| | | | | | | | | | |
|--------|-----------------|-------------|---------------|-------------|--|--------|---------|---------|---------|
| | | | 45.91 | 1510877 | | 5.22 | 129259 | 5.22 | 129191 |
| | | | 46.41 | 1510891 | | 5.72 | 193563 | 5.72 | 193342 |
| | | | 46.91 | 1510900 | | 6.22 | 268804 | 6.22 | 267769 |
| | | | 47.42 | 1510906 | | 6.72 | 346045 | 6.72 | 344145 |
| | | | 999.00 | 1510906 | | 7.22 | 432056 | 7.22 | 429504 |
| Node | Corrected Model | | Revised Model | | | 7.72 | 560046 | 7.72 | 557081 |
| | Depth (ft) | Area (sqft) | Depth (ft) | Area (sqft) | | 8.22 | 736347 | 8.22 | 732431 |
| 210050 | 0.00 | 436 | 0.00 | 436 | | 8.72 | 1020645 | 8.72 | 1010318 |
| | 0.34 | 11031 | 0.34 | 14975 | | 9.22 | 1385486 | 9.22 | 1354216 |
| | 0.84 | 15185 | 0.84 | 19453 | | 9.72 | 1773259 | 9.72 | 1671807 |
| | 1.34 | 19681 | 1.34 | 24185 | | 10.22 | 2036797 | 10.22 | 1834267 |
| | 1.84 | 24430 | 1.84 | 28260 | | 10.72 | 2214468 | 10.72 | 1920683 |
| | 2.34 | 28522 | 2.34 | 30290 | | 11.22 | 2334415 | 11.22 | 1995156 |
| | 2.84 | 30567 | 2.84 | 35589 | | 11.72 | 2403099 | 11.72 | 2043915 |
| | 3.34 | 35881 | 3.34 | 62208 | | 12.22 | 2421886 | 12.22 | 2063186 |
| | 3.84 | 62518 | 3.84 | 71227 | | 12.72 | 2431754 | 12.72 | 2078450 |
| | 4.34 | 71561 | 4.34 | 84259 | | 13.22 | 2438801 | 13.22 | 2090750 |
| | 4.84 | 84636 | 4.84 | 97266 | | 13.72 | 2442687 | 13.72 | 2098743 |
| | 5.34 | 97697 | 5.34 | 109731 | | 14.22 | 2446030 | 14.22 | 2106032 |
| | 5.84 | 110226 | 5.84 | 124455 | | 14.72 | 2449754 | 14.72 | 2114380 |
| | 6.34 | 125079 | 6.34 | 149128 | | 15.22 | 2454662 | 15.22 | 2124039 |
| | 6.84 | 150347 | 6.84 | 183323 | | 15.72 | 2460321 | 15.72 | 2134730 |
| | 7.34 | 185269 | 7.34 | 251246 | | 16.22 | 2467071 | 16.22 | 2146789 |
| | 7.84 | 255586 | 7.84 | 444461 | | 16.72 | 2470096 | 16.72 | 2154602 |
| | 8.34 | 454033 | 8.34 | 741920 | | 17.22 | 2472321 | 17.22 | 2160621 |
| | 8.84 | 767510 | 8.84 | 1143419 | | 17.56 | 2472646 | 17.72 | 2162641 |
| | 9.34 | 1214415 | 9.34 | 1443523 | | 999.00 | 2472646 | 18.22 | 2163259 |
| | 9.84 | 1553347 | 9.84 | 1609629 | | | | 18.72 | 2163753 |
| | 10.34 | 1748586 | 10.34 | 1672926 | | | | 19.22 | 2164051 |
| | 10.84 | 1829803 | 10.84 | 1729807 | | | | 19.72 | 2164318 |
| | 11.34 | 1881125 | 11.34 | 1768972 | | | | 20.22 | 2164522 |
| | 11.84 | 1917019 | 11.84 | 1792368 | | | | 20.72 | 2164754 |
| | 12.34 | 1937784 | 12.34 | 1820689 | | | | 21.22 | 2165054 |
| | 12.84 | 1967269 | 12.84 | 1837606 | | | | 21.72 | 2165291 |
| | 13.34 | 1987991 | 13.34 | 1872151 | | | | 22.22 | 2165513 |
| | 13.84 | 2030898 | 13.84 | 1884304 | | | | 22.72 | 2165756 |
| | 14.13 | 2040150 | 14.34 | 1889405 | | | | 23.22 | 2165984 |
| | 999.00 | 2040150 | 14.84 | 1894532 | | | | 23.72 | 2166188 |
| | | | 15.34 | 1899585 | | | | 24.22 | 2166400 |
| | | 15.84 | 1904327 | | | | 24.72 | 2166591 | |
| | | 16.34 | 1906234 | | | | 25.22 | 2166794 | |
| | | 16.84 | 1907193 | | | | 25.72 | 2166982 | |
| | | 17.34 | 1908320 | | | | 26.22 | 2167170 | |
| | | 17.84 | 1909461 | | | | 26.72 | 2167353 | |
| | | 18.34 | 1910506 | | | | 27.22 | 2167533 | |
| | | 18.84 | 1911502 | | | | 27.72 | 2167650 | |

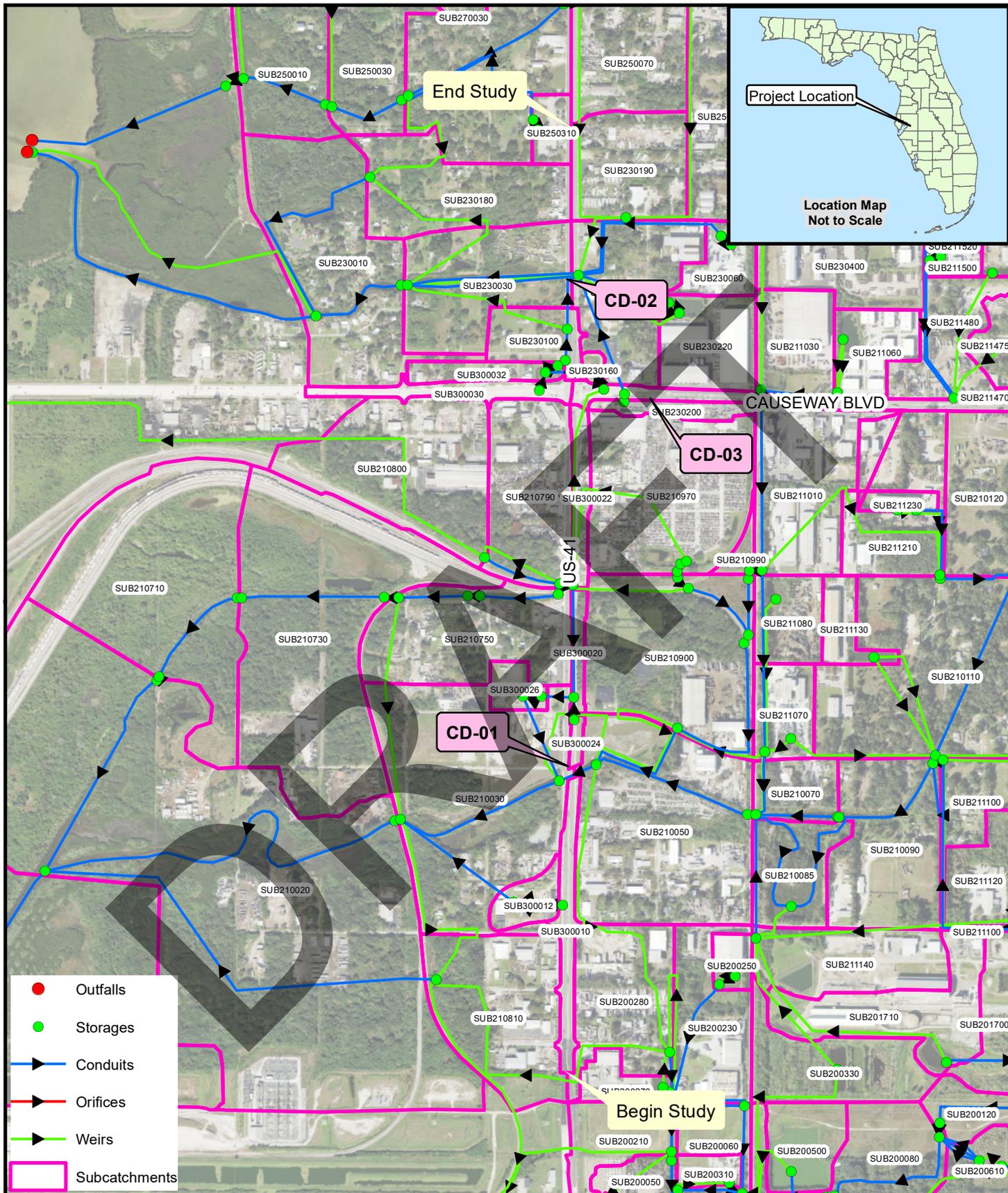
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|-------------|------------------------|--------------------|----------------------|--------------------|-------------|------------------------|----------------------|-------------------|--------------------|
| | | | 19.34 | 1912419 | | | 28.22 | 2167725 | |
| | | | 19.84 | 1913276 | | | 28.72 | 2167736 | |
| | | | 20.34 | 1914064 | | | 29.22 | 2167782 | |
| | | | 20.84 | 1914792 | | | 29.72 | 2167813 | |
| | | | 21.34 | 1915482 | | | 30.22 | 2167924 | |
| | | | 21.84 | 1916123 | | | 30.72 | 2168243 | |
| | | | 22.34 | 1916730 | | | 31.22 | 2168586 | |
| | | | 22.84 | 1917297 | | | 31.72 | 2168660 | |
| | | | 23.34 | 1917813 | | | 32.22 | 2168664 | |
| | | | 23.84 | 1918297 | | | 32.72 | 2168676 | |
| | | | 24.34 | 1918727 | | | 33.22 | 2168781 | |
| | | | 24.84 | 1919119 | | | 33.72 | 2168900 | |
| | | | 25.34 | 1919489 | | | 34.22 | 2169031 | |
| | | | 25.84 | 1919804 | | | 34.72 | 2169155 | |
| | | | 26.34 | 1919981 | | | 35.22 | 2169282 | |
| | | | 26.84 | 1920095 | | | 35.72 | 2169408 | |
| | | | 27.34 | 1920180 | | | 36.22 | 2169536 | |
| | | | 27.84 | 1920244 | | | 36.72 | 2169665 | |
| | | | 28.34 | 1920295 | | | 37.22 | 2169784 | |
| | | | 28.84 | 1920528 | | | 37.72 | 2169896 | |
| | | | 29.34 | 1920965 | | | 38.10 | 2169940 | |
| | | | 29.84 | 1921379 | | | 999.00 | 2169940 | |
| | | | 30.17 | 1921382 | | | | | |
| | | | 999.00 | 1921382 | | | | | |
| | | | | | Node | Corrected Model | Revised Model | | |
| | | | | | | Depth (ft) | Area (sqft) | Depth (ft) | Area (sqft) |
| | | | | | 210810 | 0.00 | 436 | 0.00 | 436 |
| | | | | | | 1.65 | 436 | 1.65 | 436 |
| | | | | | | 2.15 | 4000 | 2.15 | 4000 |
| | | | | | | 2.65 | 13752 | 2.65 | 13487 |
| | | | | | | 3.15 | 27030 | 3.15 | 26027 |
| | | | | | | 3.65 | 47380 | 3.65 | 45745 |
| | | | | | | 4.15 | 87600 | 4.15 | 85377 |
| | | | | | | 4.65 | 152253 | 4.65 | 149803 |
| | | | | | | 5.15 | 239881 | 5.15 | 237771 |
| | | | | | | 5.65 | 324836 | 5.65 | 322537 |
| | | | | | | 6.15 | 448271 | 6.15 | 445017 |
| | | | | | | 6.65 | 646470 | 6.65 | 641100 |
| | | | | | | 7.15 | 843561 | 7.15 | 835463 |
| | | | | | | 7.65 | 981743 | 7.65 | 968738 |
| | | | | | | 8.15 | 1062431 | 8.15 | 1029777 |
| | | | | | | 8.65 | 1118416 | 8.65 | 1069041 |
| | | | | | | 9.15 | 1148838 | 9.15 | 1090551 |
| | | | | | | 9.65 | 1158785 | 9.65 | 1099207 |
| | | | | | | 10.15 | 1160490 | 10.15 | 1100624 |
| | | | | | | 10.65 | 1160565 | 10.65 | 1100699 |
| | | | | | | 11.15 | 1160665 | 11.15 | 1100799 |
| | | | | | | 11.45 | 1160715 | 11.45 | 1100849 |
| Node | Corrected Model | | Revised Model | | | | | | |
| | Depth (ft) | Area (sqft) | Depth (ft) | Area (sqft) | | | | | |
| 200280 | 0.00 | 436 | 0.00 | 436 | | | | | |
| | 0.47 | 436 | 0.47 | 436 | | | | | |
| | 0.97 | 7920 | 0.97 | 7920 | | | | | |
| | 1.47 | 17755 | 1.47 | 17755 | | | | | |
| | 1.97 | 26626 | 1.97 | 26626 | | | | | |
| | 2.47 | 37479 | 2.47 | 37479 | | | | | |
| | 2.97 | 58819 | 2.97 | 58819 | | | | | |
| | 3.47 | 92441 | 3.47 | 92261 | | | | | |
| | 3.97 | 139944 | 3.97 | 139609 | | | | | |
| | 4.47 | 251345 | 4.47 | 248760 | | | | | |
| | 4.97 | 443302 | 4.97 | 434809 | | | | | |
| | 5.47 | 604728 | 5.47 | 588138 | | | | | |
| | 5.97 | 740818 | 5.97 | 707018 | | | | | |
| | 6.47 | 836698 | 6.47 | 784898 | | | | | |
| | 6.97 | 870933 | 6.97 | 808802 | | | | | |
| | 7.47 | 881981 | 7.47 | 818666 | | | | | |
| | 7.97 | 884085 | 7.97 | 820200 | | | | | |
| | 8.47 | 884544 | 8.47 | 820596 | | | | | |
| | 8.97 | 884745 | 8.97 | 820797 | | | | | |
| | 9.47 | 884945 | 9.47 | 820997 | | | | | |

| | | | | | | | | | |
|-------------|------------------------|--------------------|----------------------|--------------------|-------------|------------------------|--------------------|----------------------|--------------------|
| | 9.86 | 885145 | 9.86 | 821197 | | 999.00 | 1160715 | 999.00 | 1100849 |
| | 999.00 | 885145 | 999.00 | 821197 | Node | Corrected Model | | Revised Model | |
| Node | Corrected Model | | Revised Model | | | Depth (ft) | Area (sqft) | Depth (ft) | Area (sqft) |
| | Depth (ft) | Area (sqft) | Depth (ft) | Area (sqft) | 300012 | | | 0 | 70487.0389 |
| 300010 | | | 0.00 | 436 | | | | 5.52 | 97250.6547 |
| | | | 2.98 | 436 | | | | 6.52 | 123810.6378 |
| | | | 3.48 | 796 | | | | 999 | 123810.6378 |
| | | | 3.98 | 2334 | | | | 0 | 70487.0389 |
| | | | 4.48 | 7744 | Node | Corrected Model | | Revised Model | |
| | | | 4.98 | 13990 | | Depth (ft) | Area (sqft) | Depth (ft) | Area (sqft) |
| | | | 5.48 | 39882 | 300026 | | | 0 | 31318.78 |
| | | | 5.98 | 90871 | | | | 9 | 68389.54 |
| | | | 6.48 | 145472 | | | | 10 | 92517.88 |
| | | | 6.98 | 186551 | | | | 999 | 92517.88 |
| | | | 7.48 | 207892 | Node | Corrected Model | | Revised Model | |
| | | | 7.98 | 220378 | | Depth (ft) | Area (sqft) | Depth (ft) | Area (sqft) |
| | | | 8.48 | 227046 | 300032 | | | 0 | 48622.24 |
| | | | 8.98 | 232368 | | | | 5.74 | 100459.76 |
| | | | 9.48 | 237163 | | | | 6.74 | 136815.07 |
| | | | 9.98 | 242061 | | | | 999 | 136815.07 |
| | | | 10.48 | 247037 | Node | Corrected Model | | Revised Model | |
| | | | 10.98 | 251131 | | Depth (ft) | Area (sqft) | Depth (ft) | Area (sqft) |
| | | | 11.48 | 253971 | 300030 | | | 0.00 | 436 |
| | | | 11.93 | 255204 | | | | 3.20 | 436 |
| | | | 999.00 | 255204 | | | | 3.70 | 436 |
| Node | Corrected Model | | Revised Model | | | | | 4.20 | 436 |
| | Depth (ft) | Area (sqft) | Depth (ft) | Area (sqft) | | | | 4.70 | 753 |
| 300020 | | | 0.00 | 436 | | | | 5.20 | 4273 |
| | | | 3.60 | 436 | | | | 5.70 | 16022 |
| | | | 4.10 | 436 | | | | 6.20 | 43235 |
| | | | 4.60 | 436 | | | | 6.70 | 91695 |
| | | | 5.10 | 436 | | | | 7.20 | 163043 |
| | | | 5.60 | 436 | | | | 7.70 | 211011 |
| | | | 6.10 | 931 | | | | 8.20 | 226366 |
| | | | 6.60 | 3326 | | | | 8.48 | 230475 |
| | | | 7.10 | 6349 | | | | 999.00 | 230475 |
| | | | 7.60 | 14106 | Node | Corrected Model | | Revised Model | |
| | | | 8.10 | 20467 | | Depth (ft) | Area (sqft) | Depth (ft) | Area (sqft) |
| | | | 8.60 | 23461 | 230170 | 0.00 | 436 | 0.00 | 436 |
| | | | 9.10 | 25452 | | 5.97 | 436 | 3.09 | 436 |
| | | | 9.60 | 25504 | | 5.98 | 3185 | 3.59 | 436 |
| | | | 10.10 | 25505 | | 6.98 | 28780 | 4.09 | 436 |
| | | | 10.60 | 25506 | | 7.98 | 79123 | 4.59 | 436 |
| | | | 11.10 | 25506 | | 8.98 | 108044 | 5.09 | 641 |
| | | | 11.60 | 25507 | | 9.98 | 129287 | 5.59 | 891 |
| | | | 12.10 | 25507 | | | | | |

| | | | | | | | | |
|-------------|------------------------|--------------------|----------------------|--------------------|--|--|-------|--------|
| | | | 35.60 | 47563 | | | 6.12 | 12004 |
| | | | 36.10 | 48905 | | | 6.62 | 30149 |
| | | | 36.60 | 50255 | | | 7.12 | 45449 |
| | | | 37.10 | 51604 | | | 7.62 | 52682 |
| | | | 37.60 | 52955 | | | 8.12 | 56816 |
| | | | 38.10 | 54316 | | | 8.62 | 59830 |
| | | | 38.60 | 55676 | | | 9.12 | 62533 |
| | | | 39.10 | 57024 | | | 9.62 | 65047 |
| | | | 39.60 | 58409 | | | 10.12 | 67395 |
| | | | 40.10 | 59840 | | | 10.62 | 69635 |
| | | | 40.60 | 61342 | | | 11.12 | 71719 |
| | | | 41.10 | 62865 | | | 11.62 | 73716 |
| | | | 41.60 | 64479 | | | 12.12 | 75628 |
| | | | 42.10 | 66131 | | | 12.62 | 77461 |
| | | | 42.60 | 67885 | | | 13.12 | 79243 |
| | | | 43.10 | 69733 | | | 13.62 | 80962 |
| | | | 43.60 | 71683 | | | 14.12 | 82645 |
| | | | 44.10 | 73771 | | | 14.62 | 84314 |
| | | | 44.60 | 76037 | | | 15.12 | 85984 |
| | | | 45.10 | 78492 | | | 15.62 | 87658 |
| | | | 45.60 | 81215 | | | 16.12 | 89319 |
| | | | 46.10 | 84353 | | | 16.62 | 90978 |
| | | | 46.60 | 88182 | | | 17.12 | 92638 |
| | | | 47.10 | 92516 | | | 17.62 | 94307 |
| | | | 47.55 | 95135 | | | 18.12 | 95981 |
| | | | 999.00 | 95135 | | | 18.62 | 97655 |
| | | | | | | | 19.12 | 99330 |
| | | | | | | | 19.62 | 101008 |
| | | | | | | | 20.12 | 102683 |
| | | | | | | | 20.62 | 104356 |
| | | | | | | | 21.12 | 106030 |
| | | | | | | | 21.62 | 107709 |
| | | | | | | | 22.12 | 109379 |
| | | | | | | | 22.62 | 111057 |
| | | | | | | | 23.12 | 112734 |
| | | | | | | | 23.62 | 114422 |
| | | | | | | | 24.12 | 116122 |
| | | | | | | | 24.62 | 117825 |
| | | | | | | | 25.12 | 119530 |
| | | | | | | | 25.62 | 121219 |
| | | | | | | | 26.12 | 122908 |
| | | | | | | | 26.62 | 124596 |
| | | | | | | | 27.12 | 126265 |
| | | | | | | | 27.62 | 127886 |
| | | | | | | | 28.12 | 129450 |
| | | | | | | | 28.62 | 130964 |
| Node | Corrected Model | | Revised Model | | | | | |
| | Depth (ft) | Area (sqft) | Depth (ft) | Area (sqft) | | | | |
| 300024 | | | 0.00 | 436 | | | | |
| | | | 6.20 | 436 | | | | |
| | | | 6.70 | 436 | | | | |
| | | | 7.20 | 436 | | | | |
| | | | 7.70 | 436 | | | | |
| | | | 8.20 | 436 | | | | |
| | | | 8.70 | 436 | | | | |
| | | | 9.20 | 436 | | | | |
| | | | 9.70 | 436 | | | | |
| | | | 10.20 | 436 | | | | |
| | | | 10.70 | 436 | | | | |
| | | | 11.20 | 436 | | | | |
| | | | 11.70 | 436 | | | | |
| | | | 12.20 | 436 | | | | |
| | | | 12.70 | 436 | | | | |
| | | | 13.20 | 436 | | | | |
| | | | 13.70 | 436 | | | | |
| | | | 14.20 | 436 | | | | |

| | | | |
|--|--|--------|-------|
| | | 14.70 | 436 |
| | | 15.20 | 788 |
| | | 15.70 | 1557 |
| | | 16.20 | 3406 |
| | | 16.70 | 5383 |
| | | 17.20 | 7252 |
| | | 17.70 | 9040 |
| | | 18.20 | 10763 |
| | | 18.70 | 12399 |
| | | 19.20 | 13982 |
| | | 19.70 | 15510 |
| | | 20.20 | 16985 |
| | | 20.70 | 18420 |
| | | 21.20 | 19807 |
| | | 21.70 | 21174 |
| | | 22.20 | 22516 |
| | | 22.70 | 23866 |
| | | 23.20 | 25208 |
| | | 23.70 | 26547 |
| | | 24.20 | 27907 |
| | | 24.70 | 29484 |
| | | 25.20 | 31098 |
| | | 25.70 | 32704 |
| | | 26.20 | 34326 |
| | | 26.70 | 35893 |
| | | 27.20 | 37050 |
| | | 27.70 | 37525 |
| | | 28.20 | 37529 |
| | | 28.58 | 37532 |
| | | 999.00 | 37532 |

| | | | |
|--|--|--------|--------|
| | | 29.12 | 132413 |
| | | 29.62 | 133839 |
| | | 30.12 | 135265 |
| | | 30.62 | 136681 |
| | | 31.12 | 138098 |
| | | 31.62 | 139514 |
| | | 32.12 | 140930 |
| | | 32.62 | 142340 |
| | | 33.12 | 143760 |
| | | 33.62 | 145187 |
| | | 34.12 | 146613 |
| | | 34.62 | 148028 |
| | | 35.12 | 149450 |
| | | 35.62 | 150892 |
| | | 36.12 | 152354 |
| | | 36.62 | 153836 |
| | | 37.12 | 155361 |
| | | 37.62 | 156890 |
| | | 38.12 | 158586 |
| | | 38.62 | 160298 |
| | | 39.12 | 162023 |
| | | 39.62 | 163801 |
| | | 40.12 | 165626 |
| | | 40.62 | 167532 |
| | | 41.12 | 169503 |
| | | 41.62 | 171475 |
| | | 42.12 | 173470 |
| | | 42.62 | 174834 |
| | | 999.00 | 174834 |

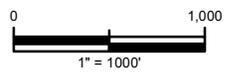


- Outfalls
- Storages
- ▶ Conduits
- ▶ Orifices
- ▶ Weirs
- Subcatchments

NOTES:

A- Project: 18033
 B- Data From - Imagery, Esri
 Dalaney Creek Model
 C- This map is intended for planning purposes only. This is not a survey.
 Date: 10/05/2022
 Drawn By: VV
 Reviewed By: EAL

Explanation of Features



Proposed Drainage Map
US41 at CSX
440749-1
Hillsborough County, FL

Revised Model
Bridge Culvert

DRAFT

Corrections for Proposed Model (Revised Model)

Bridge Culvert

- 1) New subcatchments were added for the roadway improvements and the proposed ponds. Basin 2 was subdivided into 3 basins due to the proposed bridges at 36th Avenue and CSX. All pond CNs were calculated by assuming CN of 100 for pond at the control elevation and 80 for the rest of the basin. The areas shown in the table have been rounded.

| Element | Subcatchment | Area (acres) | TC (minutes) | CN |
|----------|--------------|--------------|--------------|-------|
| Basin 1 | SUB300010 | 5.858 | 30 | 98.00 |
| Pond 1 | SUB300012 | 3.996 | 20 | 91.18 |
| Basin 2B | SUB300020 | 2.184 | 30 | 98.00 |
| Basin 2C | SUB300022 | 4.010 | 30 | 98.00 |
| Basin 2A | SUB300024 | 0.861 | 30 | 98.00 |
| Pond 2 | SUB300026 | 3.005 | 20 | 90.45 |
| Basin 3 | SUB300030 | 5.291 | 25 | 98.00 |
| Pond 3 | SUB300032 | 3.997 | 20 | 91.27 |

- 2) The existing subcatchment areas and curve numbers were updated to reflect the insertion of the new roadway and pond basins. The areas shown in the table have been rounded. The revised values in the model were verified to balance with the existing model when added to the new basins and ponds. SUB230170 was increased to reflect the roadway widening within the existing basin. SUB230130 was the existing pond on the NW corner of the US 19 and Causeway intersection and has been combined with Pond 3. SUB230140 was replaced with SUB300030.

| Subcatchment | Area (acres) | | Curve Number | |
|--------------|--------------|--------|--------------|-------|
| | From | To | From | To |
| SUB200280 | 20.320 | 18.851 | 94.71 | 93.18 |
| SUB210030 | 56.768 | 49.814 | 88.8 | 82.25 |
| SUB210050 | 46.835 | 44.111 | 93.66 | 90.58 |
| SUB210750 | 25.463 | 24.667 | 86.45 | 81.97 |
| SUB210790 | 19.471 | 20.225 | 90.51 | 90.66 |
| SUB210800 | 30.211 | 30.110 | 87.53 | 87.09 |
| SUB210810 | 26.646 | 25.272 | 87.83 | 87.86 |
| SUB210900 | 37.611 | 34.687 | 83.97 | 84.97 |
| SUB210970 | 36.825 | 32.608 | 94.94 | 94.17 |
| SUB230010 | 41.154 | 36.817 | 91.33 | 86.47 |
| SUB230030 | 22.552 | 22.552 | 83.6 | 85.59 |
| SUB230040 | 20.572 | 20.434 | 92.01 | 93.01 |
| SUB230100 | 8.275 | 7.018 | 87.3 | 82.43 |
| SUB230140 | 2.433 | -- | 92.19 | -- |
| SUB230160 | 1.032 | 0.837 | 97.76 | 97.76 |
| SUB230170 | 8.588 | 8.731 | 92.01 | 98.00 |
| SUB230180 | 20.819 | 20.819 | 84.52 | 78.40 |
| SUB230200 | 3.296 | 3.195 | 94.88 | 93.96 |
| SUB230130 | 0.857 | -- | 97.95 | -- |

3) Weirs were modified and removed to reflect the profile changes along US 41 and Causeway.

| SWMM | Name | | Node | | | | Length | | Inlet Offset | | Slope | |
|----------|--|----------|--------|--------|--------|--------|--------|-------|--------------|-----|-------|-----|
| | | | Inlet | | Outlet | | From | To | From | To | From | To |
| Weir | From | To | From | To | From | To | From | To | From | To | From | To |
| W210050A | | | | | | | 917 | 149.8 | | | | |
| W210930A | | | | | | | 565 | 414 | | | | |
| W210970B | W210970B | W21970B | 210970 | 210970 | 230170 | 300022 | 384 | 50 | 7.3 | 6 | 202 | 0 |
| W210960B | W210960B | W300022A | 210960 | 300022 | 210790 | 230170 | 784 | 784 | 7.5 | 7.5 | 490 | 490 |
| W210050C | Removed from model due to profile changes along US 41. | | | | | | | | | | | |
| W210960B | Removed from model due to profile changes along Causeway. | | | | | | | | | | | |
| W210800B | Removed from model due to profile changes along Causeway. | | | | | | | | | | | |
| W230140A | Removed from model due to changes in proposed design. | | | | | | | | | | | |
| W230160A | Removed from model due to pond reconfiguration in proposed design. | | | | | | | | | | | |
| W230160B | Removed from model due to pond reconfiguration in proposed design. | | | | | | | | | | | |
| W230130B | Removed from model due to pond reconfiguration in proposed design. | | | | | | | | | | | |
| W230130A | Removed from model due to pond reconfiguration in proposed design. | | | | | | | | | | | |

4) New weirs were added for the proposed ponds.

| Name | Node | | Type | Height | Length | Invert |
|----------|--------|--------|------------|--------|--------|--------|
| | Inlet | Outlet | | | | |
| W300012A | 300012 | 300014 | Transverse | 1.57 | 0.5 | 4.15 |
| W300012B | 300012 | 300014 | Transverse | 999 | 14.32 | 5.8 |
| W300026A | 300026 | 300028 | Transverse | 2.97 | 8 | 4.03 |
| W300026B | 300026 | 300028 | Transverse | 999 | 14.32 | 7 |
| W300032A | 300032 | 300034 | Transverse | 1.66 | 8 | 3.2 |
| W300032B | 300032 | 300034 | Transverse | 999 | 14.32 | 4.86 |

5) New orifices were added for the proposed ponds.

| Name | Node | | Type | Height | Length | Invert |
|----------|--------|--------|--------|--------|--------|--------|
| | Inlet | Outlet | | | | |
| O300012A | 300012 | 300014 | Bottom | 0.33 | 0 | 3.8 |
| O300026 | 300026 | 300028 | Bottom | 0.33 | 0 | 3.6 |

6) The following pipes were removed from the model to accommodate the proposed design changes.

| Link | Description |
|----------|--|
| P210050A | Existing pipe at Delaney Creek |
| P210050B | Existing pipe at Delaney Creek |
| P210050C | Existing pipe at Delaney Creek |
| P230150A | Existing outfall pipe from pond at NE corner of Causeway and US 41 |

- 7) The following pipes were updated to accommodate the proposed roadway widening and the revisions to the existing ponds.

| SWMM | Name | | Node | | | | Depth | | Length | |
|----------|----------|----------|--------|--------|--------|--------|-------|-----|--------|-----|
| | | | Inlet | | Outlet | | From | To | From | To |
| Pipe | From | To | From | To | From | To | From | To | From | To |
| P230140A | P230140A | P300030A | 230140 | 300030 | 230130 | 300032 | 2.5 | 2.5 | 41 | 41 |
| P230120A | P230120A | P300034A | 230120 | 300034 | 230110 | 230110 | 2.5 | 2.5 | 74 | 74 |
| P230040A | | | 230040 | 230040 | 230030 | 230030 | 3.5 | 4 | 118 | 150 |
| P230040B | | | 230040 | 230040 | 230030 | 230030 | 3.5 | 4 | 118 | 150 |

- 8) New Pipes Links were added to drain the new basins to the ponds and to drain the ponds to the outfall locations

| Name | Node | | Depth (ft) | Length (ft) | Roughness | US invert (ft) | DS invert (ft) |
|----------|--------|--------|------------|-------------|-----------|----------------|----------------|
| | From | To | | | | | |
| P300010A | 300010 | 300012 | 3 | 110 | 0.012 | 1.7 | 1.2 |
| P300014A | 300014 | 210030 | 3 | 290 | 0.012 | 1 | -0.5 |
| P300020A | 300020 | 300026 | 4 | 200 | 0.012 | -0.67 | -1 |
| P300028A | 300028 | 210040 | 4 | 900 | 0.012 | -1 | -1.3 |
| P300024A | 300024 | 300020 | 3 | 78 | 0.012 | -0.61 | -0.69 |
| P300022A | 300022 | 300020 | 3.5 | 310 | 0.012 | 0.66 | 0.36 |
| P230160A | 230160 | 300032 | 2.5 | 200 | 0.012 | 1.83 | 1.83 |

- 9) New Link was added for the bridge culvert over Delaney Creek

| Name | From | To | Shape | Length (ft) | Roughness (ft) | US invert (ft) | DS Invert (ft) |
|----------|--------|--------|----------|-------------|----------------|----------------|----------------|
| P210050A | 210050 | 210040 | 3-8'X11' | 325 | 0.012 | -3.6 | -3.65 |

- 10) The upstream and downstream channel links at Delaney Creek were updated to remove the length of the new channel link at the bridge. The overall total length is constant between the revised existing and proposed models.

| Link | Length | | US Invert (ft) | | DS Invert (ft) | |
|----------|--------|------|----------------|------|----------------|------|
| | From | To | From | To | From | To |
| C210060A | 1400 | 1215 | | | -4 | -4.2 |
| C210040A | 1320 | 1300 | -3.9 | -4.5 | | |

- 11) Storage Unit 210040 invert elevation was lowered from -3.9 to -4.5 to match the revised channel bottom.

| | | | | | | | | | |
|-------------|------------------------|--------------------|----------------------|--------------------|-------------|------------------------|--------------------|----------------------|--------------------|
| | 3.70 | 299483 | 3.70 | 296186 | | 9.05 | 851417 | 9.05 | 845331 |
| | 4.20 | 476858 | 4.20 | 472239 | | 9.55 | 882009 | 9.55 | 875452 |
| | 4.70 | 601177 | 4.70 | 594602 | | 10.05 | 894436 | 10.05 | 888091 |
| | 5.20 | 711344 | 5.20 | 702584 | | 10.55 | 895702 | 10.55 | 889689 |
| | 5.70 | 812785 | 5.70 | 801935 | | 11.05 | 895914 | 11.05 | 889901 |
| | 6.20 | 879506 | 6.20 | 867693 | | 11.57 | 895936 | 11.57 | 889923 |
| | 6.70 | 899776 | 6.70 | 887512 | | 999.00 | 895936 | 999.00 | 889923 |
| | 7.20 | 910641 | 7.20 | 899513 | | | | | |
| | 7.70 | 923854 | 7.70 | 919348 | Node | Corrected Model | | Revised Model | |
| | 8.20 | 938067 | 8.20 | 946082 | | Depth (ft) | Area (sqft) | Depth (ft) | Area (sqft) |
| | 8.70 | 962949 | 8.70 | 966897 | 230200 | 0.00 | 436 | 0.00 | 436 |
| | 9.36 | 982349 | 9.32 | 982349 | | 0.76 | 436 | 1.56 | 436 |
| | 999.00 | 982349 | 999.00 | 982349 | | 1.26 | 436 | 2.06 | 436 |
| | | | | | | 1.76 | 436 | 2.56 | 1930 |
| Node | Corrected Model | | Revised Model | | | 2.26 | 1689 | 3.06 | 8160 |
| | Depth (ft) | Area (sqft) | Depth (ft) | Area (sqft) | | 2.76 | 4214 | 3.56 | 33660 |
| 230100 | 0.00 | 436 | 0.00 | 436 | | 3.26 | 21259 | 4.06 | 48186 |
| | 2.62 | 25 | 1.65 | 436 | | 3.76 | 46247 | 4.56 | 57179 |
| | 3.12 | 1831 | 2.15 | 436 | | 4.26 | 58516 | 5.06 | 68211 |
| | 3.62 | 18775 | 2.65 | 650 | | 4.76 | 66784 | 5.56 | 89640 |
| | 4.12 | 71974 | 3.15 | 3323 | | 5.26 | 81511 | 6.06 | 116760 |
| | 4.62 | 139058 | 3.65 | 22344 | | 5.76 | 106667 | 6.56 | 132018 |
| | 5.12 | 207341 | 4.15 | 77098 | | 6.26 | 128848 | 7.06 | 134775 |
| | 5.62 | 242020 | 4.65 | 140516 | | 6.76 | 137565 | 7.56 | 136920 |
| | 6.12 | 279395 | 5.15 | 188969 | | 7.26 | 140292 | 8.06 | 138027 |
| | 6.62 | 320731 | 5.65 | 209822 | | 7.76 | 141782 | 8.56 | 138845 |
| | 7.12 | 345554 | 6.15 | 225771 | | 8.26 | 142836 | 9.06 | 139100 |
| | 7.62 | 358986 | 6.65 | 246233 | | 8.76 | 143386 | 9.67 | 139248 |
| | 8.12 | 360356 | 7.15 | 275906 | | 9.26 | 143598 | 999.00 | 139248 |
| | 8.47 | 360380 | 7.65 | 297834 | | 9.67 | 143674 | | |
| | 999.00 | 360380 | 8.15 | 305662 | | 999.00 | 143674 | | |
| | | | 8.65 | 305662 | Node | Corrected Model | | Revised Model | |
| | | | 8.93 | 305673 | | Depth (ft) | Area (sqft) | Depth (ft) | Area (sqft) |
| | | | 999.00 | 305673 | 210790 | 0.00 | 436 | 0.00 | 436 |
| Node | Corrected Model | | Revised Model | | | 0.15 | 436 | 0.15 | 436 |
| | Depth (ft) | Area (sqft) | Depth (ft) | Area (sqft) | | 0.65 | 446 | 0.65 | 446 |
| 210800 | 0.00 | 436 | 0.00 | 436 | | 1.15 | 674 | 1.15 | 674 |
| | 0.74 | 436 | 0.74 | 436 | | 1.65 | 3334 | 1.65 | 3334 |
| | 1.24 | 595 | 1.24 | 595 | | 2.15 | 10480 | 2.15 | 10479 |
| | 1.74 | 3972 | 1.74 | 3972 | | 2.65 | 16864 | 2.65 | 16855 |
| | 2.24 | 16118 | 2.24 | 16118 | | 3.15 | 27484 | 3.15 | 27491 |
| | 2.74 | 65097 | 2.74 | 65087 | | 3.65 | 42866 | 3.65 | 42854 |
| | 3.24 | 154875 | 3.24 | 153775 | | 4.15 | 60808 | 4.15 | 61077 |
| | 3.74 | 342555 | 3.74 | 334428 | | 4.65 | 96822 | 4.65 | 98830 |
| | 4.24 | 687855 | 4.24 | 675487 | | 5.15 | 243107 | 5.15 | 246244 |
| | 4.74 | 953383 | 4.74 | 940859 | | 5.65 | 484800 | 5.65 | 486648 |
| | 5.24 | 1131089 | 5.24 | 1119922 | | 6.15 | 643861 | 6.15 | 650477 |

| | | | | |
|--------|-----------------|-------------|---------------|-------------|
| | 5.74 | 1188241 | 5.74 | 1182297 |
| | 6.24 | 1216482 | 6.24 | 1212069 |
| | 6.74 | 1249734 | 6.74 | 1245321 |
| | 7.24 | 1280430 | 7.24 | 1276017 |
| | 7.74 | 1306789 | 7.74 | 1302376 |
| | 8.24 | 1315183 | 8.24 | 1310770 |
| | 8.57 | 1315965 | 8.57 | 1311552 |
| | 999.00 | 1315965 | 999.00 | 1311552 |
| Node | Corrected Model | | Revised Model | |
| | Depth (ft) | Area (sqft) | Depth (ft) | Area (sqft) |
| 210970 | 0.00 | 436 | 0.00 | 436 |
| | 0.70 | 4625 | 0.70 | 4625 |
| | 1.20 | 31900 | 1.20 | 31900 |
| | 1.70 | 47067 | 1.70 | 47067 |
| | 2.20 | 58896 | 2.20 | 59038 |
| | 2.70 | 90375 | 2.70 | 90400 |
| | 3.20 | 252344 | 3.20 | 242050 |
| | 3.70 | 580951 | 3.70 | 522357 |
| | 4.20 | 971471 | 4.20 | 805394 |
| | 4.70 | 1256644 | 4.70 | 1060770 |
| | 5.20 | 1427930 | 5.20 | 1226952 |
| | 5.70 | 1510849 | 5.70 | 1309680 |
| | 6.20 | 1544248 | 6.20 | 1343547 |
| | 6.70 | 1569158 | 6.70 | 1368877 |
| | 7.20 | 1582235 | 7.20 | 1382307 |
| | 7.70 | 1589310 | 7.70 | 1389705 |
| | 8.20 | 1596846 | 8.20 | 1397521 |
| | 8.70 | 1599856 | 8.70 | 1400786 |
| | 9.20 | 1601604 | 9.20 | 1402766 |
| | 9.70 | 1602331 | 9.70 | 1403716 |
| | 10.20 | 1602736 | 10.20 | 1404341 |
| | 10.70 | 1603119 | 10.70 | 1404928 |
| | 11.20 | 1603467 | 11.20 | 1405482 |
| | 11.70 | 1603792 | 11.70 | 1406028 |
| | 12.15 | 1604026 | 12.20 | 1406547 |
| | 999.00 | 1604026 | 12.70 | 1406987 |
| | | | 13.20 | 1407409 |
| | | | 13.70 | 1407821 |
| | | | 14.20 | 1408226 |
| | | | 14.70 | 1408620 |
| | | 15.20 | 1408986 | |
| | | 15.70 | 1409337 | |
| | | 16.20 | 1409682 | |
| | | 16.70 | 1410005 | |
| | | 17.20 | 1410321 | |
| | | 17.70 | 1410624 | |

| | | | | |
|--|--------|--------|-------|--------|
| | 6.65 | 736748 | 6.65 | 750289 |
| | 7.15 | 786241 | 7.15 | 807472 |
| | 7.65 | 814979 | 7.65 | 838969 |
| | 8.15 | 833701 | 8.15 | 857884 |
| | 8.65 | 845771 | 8.65 | 870132 |
| | 9.15 | 848059 | 9.15 | 872596 |
| | 9.65 | 848121 | 9.65 | 872817 |
| | 10.08 | 848141 | 10.15 | 873000 |
| | 999.00 | 848141 | 10.65 | 873139 |
| | | | 11.15 | 873275 |
| | | | 11.65 | 873411 |
| | | | 12.15 | 873529 |
| | | | 12.65 | 873657 |
| | | | 13.15 | 873780 |
| | | | 13.65 | 873887 |
| | | | 14.15 | 874010 |
| | | | 14.65 | 874125 |
| | | | 15.15 | 874251 |
| | | | 15.65 | 874370 |
| | | | 16.15 | 874491 |
| | | | 16.65 | 874613 |
| | | | 17.15 | 874722 |
| | | | 17.65 | 874835 |
| | | | 18.15 | 874943 |
| | | | 18.65 | 875055 |
| | | | 19.15 | 875165 |
| | | | 19.65 | 875319 |
| | | | 20.15 | 875441 |
| | | | 20.65 | 875562 |
| | | | 21.15 | 875677 |
| | | | 21.65 | 875790 |
| | | | 22.15 | 875903 |
| | | | 22.65 | 876015 |
| | | | 23.15 | 876128 |
| | | | 23.65 | 876240 |
| | | | 24.15 | 876363 |
| | | | 24.65 | 876482 |
| | | | 25.15 | 876606 |
| | | | 25.65 | 876725 |
| | | | 26.15 | 876845 |
| | | | 26.65 | 876963 |
| | | | 27.15 | 877073 |
| | | | 27.65 | 877182 |
| | | | 28.15 | 877295 |
| | | | 28.65 | 877417 |
| | | | 29.15 | 877538 |

| Node | Corrected Model | | Revised Model | | 8.17 | 1108647 | 8.17 | 1068766 |
|--------|-----------------|-------------|---------------|-------------|--------|---------|---------|---------|
| | Depth (ft) | Area (sqft) | Depth (ft) | Area (sqft) | | | | |
| 210900 | 0.00 | 436 | 0.00 | 436 | 999.00 | 1109180 | 9.17 | 1069572 |
| | 1.89 | 436 | 1.91 | 436 | | | 9.67 | 1069577 |
| | 2.39 | 436 | 2.41 | 436 | | | 10.17 | 1069580 |
| | 2.89 | 2849 | 2.91 | 1872 | | | 10.67 | 1069583 |
| | 3.39 | 14070 | 3.41 | 13244 | | | 11.17 | 1069588 |
| | 3.89 | 48730 | 3.91 | 48382 | | | 11.67 | 1069590 |
| | 4.39 | 100630 | 4.41 | 100990 | | | 12.17 | 1069596 |
| | 4.89 | 179865 | 4.91 | 177857 | | | 12.67 | 1069600 |
| | 5.39 | 286698 | 5.41 | 283502 | | | 13.17 | 1069600 |
| | 5.89 | 505147 | 5.91 | 491646 | | | 13.67 | 1069606 |
| | 6.39 | 866343 | 6.41 | 820904 | | | 14.17 | 1069609 |
| | 6.89 | 1193192 | 6.91 | 1106976 | | | 14.67 | 1069612 |
| | 7.39 | 1418451 | 7.41 | 1305450 | | | 15.17 | 1069617 |
| | 7.89 | 1513561 | 7.91 | 1383018 | | | 15.67 | 1069620 |
| | 8.39 | 1556316 | 8.41 | 1422045 | | | 16.17 | 1069623 |
| | 8.89 | 1585802 | 8.91 | 1451012 | | | 16.67 | 1069627 |
| | 9.39 | 1599222 | 9.41 | 1463993 | | | 17.17 | 1069632 |
| | 9.89 | 1605660 | 9.91 | 1470290 | | | 17.67 | 1069633 |
| | 10.39 | 1611213 | 10.41 | 1475722 | | | 18.17 | 1069640 |
| | 10.89 | 1613712 | 10.91 | 1478162 | | | 18.67 | 1069642 |
| | 11.39 | 1615489 | 11.41 | 1479942 | | | 19.17 | 1069646 |
| | 11.89 | 1617165 | 11.91 | 1481606 | | | 19.67 | 1069650 |
| | 12.39 | 1618574 | 12.41 | 1483020 | | | 20.17 | 1069655 |
| | 12.89 | 1619930 | 12.91 | 1484415 | | | 20.67 | 1069657 |
| | 13.39 | 1622146 | 13.41 | 1486611 | | | 21.17 | 1069661 |
| | 13.89 | 1623103 | 13.91 | 1487564 | | | 21.67 | 1069666 |
| | 14.39 | 1624129 | 14.41 | 1488580 | | | 22.17 | 1069672 |
| | 14.89 | 1625030 | 14.91 | 1489489 | | | 22.67 | 1069673 |
| | 15.39 | 1625896 | 15.41 | 1490368 | | | 23.17 | 1069678 |
| | 15.89 | 1626709 | 15.91 | 1491184 | | | 23.67 | 1069681 |
| 16.39 | 1627348 | 16.41 | 1491822 | | | 24.17 | 1069688 | |
| 16.89 | 1628082 | 16.91 | 1492563 | | | 24.67 | 1069691 | |
| 17.39 | 1628847 | 17.41 | 1493337 | | | 25.17 | 1069693 | |
| 17.89 | 1629697 | 17.91 | 1494191 | | | 25.67 | 1069698 | |
| 18.39 | 1630556 | 18.41 | 1495061 | | | 26.17 | 1069701 | |
| 18.89 | 1631450 | 18.91 | 1495962 | | | 26.67 | 1069707 | |
| 19.39 | 1632349 | 19.41 | 1496871 | | | 27.17 | 1069710 | |
| 19.89 | 1633206 | 19.91 | 1497722 | | | 27.67 | 1069713 | |
| 20.39 | 1634058 | 20.41 | 1498588 | | | 28.17 | 1069719 | |
| 20.89 | 1634978 | 20.91 | 1499514 | | | 28.67 | 1069722 | |
| 21.39 | 1635984 | 21.41 | 1500528 | | | 29.17 | 1069726 | |
| 21.89 | 1637029 | 21.91 | 1501583 | | | 29.67 | 1069731 | |

| | | | | | | | | |
|--------|---------|-------|---------|-------------|------------------------|--------------------|----------------------|--------------------|
| 22.39 | 1637862 | 22.41 | 1502404 | | | 30.17 | 1069734 | |
| 23.00 | 1638262 | 22.91 | 1502770 | | | 30.67 | 1069739 | |
| 999.00 | 1638262 | 23.41 | 1502788 | | | 31.17 | 1069745 | |
| | | 23.91 | 1502790 | | | 31.67 | 1069748 | |
| | | 24.41 | 1502795 | | | 32.17 | 1069753 | |
| | | 24.91 | 1502802 | | | 32.67 | 1069756 | |
| | | 25.41 | 1502811 | | | 33.17 | 1069765 | |
| | | 25.91 | 1502828 | | | 33.67 | 1069830 | |
| | | 26.41 | 1502856 | | | 34.17 | 1069953 | |
| | | 26.91 | 1502886 | | | 34.67 | 1070076 | |
| | | 27.41 | 1502930 | | | 35.17 | 1070203 | |
| | | 27.91 | 1502964 | | | 35.67 | 1070325 | |
| | | 28.41 | 1503016 | | | 36.17 | 1070454 | |
| | | 28.91 | 1503200 | | | 36.67 | 1070575 | |
| | | 29.41 | 1503381 | | | 37.17 | 1070773 | |
| | | 29.91 | 1503569 | | | 37.67 | 1070891 | |
| | | 30.41 | 1503749 | | | 38.17 | 1071017 | |
| | | 30.91 | 1503939 | | | 38.67 | 1071147 | |
| | | 31.41 | 1504133 | | | 39.17 | 1071291 | |
| | | 31.91 | 1504319 | | | 39.67 | 1071435 | |
| | | 32.41 | 1504507 | | | 40.17 | 1071584 | |
| | | 32.91 | 1504700 | | | 40.67 | 1071751 | |
| | | 33.41 | 1504894 | | | 41.17 | 1071932 | |
| | | 33.91 | 1505081 | | | 41.67 | 1072151 | |
| | | 34.41 | 1505267 | | | 42.17 | 1072383 | |
| | | 34.91 | 1505455 | | | 42.67 | 1072604 | |
| | | 35.41 | 1505644 | | | 43.17 | 1072821 | |
| | | 35.91 | 1505824 | | | 43.67 | 1073069 | |
| | | 36.41 | 1505991 | | | 44.17 | 1073385 | |
| | | 36.91 | 1506162 | | | 44.67 | 1073762 | |
| | | 37.41 | 1506343 | | | 45.17 | 1074214 | |
| | | 37.91 | 1506528 | | | 45.67 | 1074429 | |
| | | 38.41 | 1506715 | | | 46.14 | 1074457 | |
| | | 38.91 | 1506930 | | | 999.00 | 1074457 | |
| | | 39.41 | 1507132 | | | | | |
| | | 39.91 | 1507335 | | | | | |
| | | 40.41 | 1507551 | | | | | |
| | | 40.91 | 1507775 | | | | | |
| | | 41.41 | 1507992 | | | | | |
| | | 41.91 | 1508218 | | | | | |
| | | 42.41 | 1508475 | | | | | |
| | | 42.91 | 1508766 | | | | | |
| | | 43.41 | 1509046 | | | | | |
| | | 43.91 | 1509360 | | | | | |
| | | 44.41 | 1509759 | | | | | |
| | | 44.91 | 1510220 | | | | | |
| | | | | Node | Corrected Model | | Revised Model | |
| | | | | | Depth (ft) | Area (sqft) | Depth (ft) | Area (sqft) |
| | | | | 210030 | 0.00 | 436 | 0.00 | 436 |
| | | | | | 0.22 | 2606 | 0.22 | 2606 |
| | | | | | 0.72 | 5255 | 0.72 | 5255 |
| | | | | | 1.22 | 8439 | 1.22 | 8439 |
| | | | | | 1.72 | 11968 | 1.72 | 11968 |
| | | | | | 2.22 | 15869 | 2.22 | 15869 |
| | | | | | 2.72 | 44258 | 2.72 | 44258 |
| | | | | | 3.22 | 51182 | 3.22 | 51182 |
| | | | | | 3.72 | 57959 | 3.72 | 57959 |
| | | | | | 4.22 | 66321 | 4.22 | 66317 |

| | | | | | | | | | |
|--------|-----------------|-------------|---------------|-------------|--|--------|---------|---------|---------|
| | | | 45.41 | 1510814 | | 4.72 | 89276 | 4.72 | 89253 |
| | | | 45.91 | 1510877 | | 5.22 | 129259 | 5.22 | 129191 |
| | | | 46.41 | 1510891 | | 5.72 | 193563 | 5.72 | 193342 |
| | | | 46.91 | 1510900 | | 6.22 | 268804 | 6.22 | 267769 |
| | | | 47.42 | 1510906 | | 6.72 | 346045 | 6.72 | 344145 |
| | | | 999.00 | 1510906 | | 7.22 | 432056 | 7.22 | 429504 |
| Node | Corrected Model | | Revised Model | | | 7.72 | 560046 | 7.72 | 557081 |
| | Depth (ft) | Area (sqft) | Depth (ft) | Area (sqft) | | 8.22 | 736347 | 8.22 | 732431 |
| 210050 | 0.00 | 436 | 0.00 | 436 | | 8.72 | 1020645 | 8.72 | 1010318 |
| | 0.34 | 11031 | 0.34 | 14975 | | 9.22 | 1385486 | 9.22 | 1354216 |
| | 0.84 | 15185 | 0.84 | 19453 | | 9.72 | 1773259 | 9.72 | 1671807 |
| | 1.34 | 19681 | 1.34 | 24185 | | 10.22 | 2036797 | 10.22 | 1834267 |
| | 1.84 | 24430 | 1.84 | 28260 | | 10.72 | 2214468 | 10.72 | 1920683 |
| | 2.34 | 28522 | 2.34 | 30290 | | 11.22 | 2334415 | 11.22 | 1995156 |
| | 2.84 | 30567 | 2.84 | 35589 | | 11.72 | 2403099 | 11.72 | 2043915 |
| | 3.34 | 35881 | 3.34 | 62208 | | 12.22 | 2421886 | 12.22 | 2063186 |
| | 3.84 | 62518 | 3.84 | 71227 | | 12.72 | 2431754 | 12.72 | 2078450 |
| | 4.34 | 71561 | 4.34 | 84259 | | 13.22 | 2438801 | 13.22 | 2090750 |
| | 4.84 | 84636 | 4.84 | 97266 | | 13.72 | 2442687 | 13.72 | 2098743 |
| | 5.34 | 97697 | 5.34 | 109731 | | 14.22 | 2446030 | 14.22 | 2106032 |
| | 5.84 | 110226 | 5.84 | 124455 | | 14.72 | 2449754 | 14.72 | 2114380 |
| | 6.34 | 125079 | 6.34 | 149128 | | 15.22 | 2454662 | 15.22 | 2124039 |
| | 6.84 | 150347 | 6.84 | 183323 | | 15.72 | 2460321 | 15.72 | 2134730 |
| | 7.34 | 185269 | 7.34 | 251246 | | 16.22 | 2467071 | 16.22 | 2146789 |
| | 7.84 | 255586 | 7.84 | 444461 | | 16.72 | 2470096 | 16.72 | 2154602 |
| | 8.34 | 454033 | 8.34 | 741920 | | 17.22 | 2472321 | 17.22 | 2160621 |
| | 8.84 | 767510 | 8.84 | 1143419 | | 17.56 | 2472646 | 17.72 | 2162641 |
| | 9.34 | 1214415 | 9.34 | 1443523 | | 999.00 | 2472646 | 18.22 | 2163259 |
| | 9.84 | 1553347 | 9.84 | 1609629 | | | | 18.72 | 2163753 |
| | 10.34 | 1748586 | 10.34 | 1672926 | | | | 19.22 | 2164051 |
| | 10.84 | 1829803 | 10.84 | 1729807 | | | | 19.72 | 2164318 |
| | 11.34 | 1881125 | 11.34 | 1768972 | | | | 20.22 | 2164522 |
| | 11.84 | 1917019 | 11.84 | 1792368 | | | | 20.72 | 2164754 |
| | 12.34 | 1937784 | 12.34 | 1820689 | | | | 21.22 | 2165054 |
| | 12.84 | 1967269 | 12.84 | 1837606 | | | | 21.72 | 2165291 |
| | 13.34 | 1987991 | 13.34 | 1872151 | | | | 22.22 | 2165513 |
| | 13.84 | 2030898 | 13.84 | 1884304 | | | | 22.72 | 2165756 |
| | 14.13 | 2040150 | 14.34 | 1889405 | | | | 23.22 | 2165984 |
| | 999.00 | 2040150 | 14.84 | 1894532 | | | | 23.72 | 2166188 |
| | | | 15.34 | 1899585 | | | | 24.22 | 2166400 |
| | | | 15.84 | 1904327 | | | | 24.72 | 2166591 |
| | | 16.34 | 1906234 | | | | 25.22 | 2166794 | |
| | | 16.84 | 1907193 | | | | 25.72 | 2166982 | |
| | | 17.34 | 1908320 | | | | 26.22 | 2167170 | |
| | | 17.84 | 1909461 | | | | 26.72 | 2167353 | |
| | | 18.34 | 1910506 | | | | 27.22 | 2167533 | |

| | | | | | | | | | |
|-------------|------------------------|--------------------|----------------------|--------------------|------------------------|----------------------|-------------------|--------------------|---------|
| | | 18.84 | 1911502 | | | 27.72 | 2167650 | | |
| | | 19.34 | 1912419 | | | 28.22 | 2167725 | | |
| | | 19.84 | 1913276 | | | 28.72 | 2167736 | | |
| | | 20.34 | 1914064 | | | 29.22 | 2167782 | | |
| | | 20.84 | 1914792 | | | 29.72 | 2167813 | | |
| | | 21.34 | 1915482 | | | 30.22 | 2167924 | | |
| | | 21.84 | 1916123 | | | 30.72 | 2168243 | | |
| | | 22.34 | 1916730 | | | 31.22 | 2168586 | | |
| | | 22.84 | 1917297 | | | 31.72 | 2168660 | | |
| | | 23.34 | 1917813 | | | 32.22 | 2168664 | | |
| | | 23.84 | 1918297 | | | 32.72 | 2168676 | | |
| | | 24.34 | 1918727 | | | 33.22 | 2168781 | | |
| | | 24.84 | 1919119 | | | 33.72 | 2168900 | | |
| | | 25.34 | 1919489 | | | 34.22 | 2169031 | | |
| | | 25.84 | 1919804 | | | 34.72 | 2169155 | | |
| | | 26.34 | 1919981 | | | 35.22 | 2169282 | | |
| | | 26.84 | 1920095 | | | 35.72 | 2169408 | | |
| | | 27.34 | 1920180 | | | 36.22 | 2169536 | | |
| | | 27.84 | 1920244 | | | 36.72 | 2169665 | | |
| | | 28.34 | 1920295 | | | 37.22 | 2169784 | | |
| | | 28.84 | 1920528 | | | 37.72 | 2169896 | | |
| | | 29.34 | 1920965 | | | 38.10 | 2169940 | | |
| | | 29.84 | 1921379 | | | 999.00 | 2169940 | | |
| | | 30.17 | 1921382 | | | | | | |
| | | 999.00 | 1921382 | | | | | | |
| | | | | Node | Corrected Model | Revised Model | | | |
| | | | | | Depth (ft) | Area (sqft) | Depth (ft) | Area (sqft) | |
| Node | Corrected Model | | Revised Model | | 210810 | 0.00 | 436 | 0.00 | 436 |
| | Depth (ft) | Area (sqft) | Depth (ft) | Area (sqft) | | 1.65 | 436 | 1.65 | 436 |
| 200280 | 0.00 | 436 | 0.00 | 436 | | 2.15 | 4000 | 2.15 | 4000 |
| | 0.47 | 436 | 0.47 | 436 | | 2.65 | 13752 | 2.65 | 13487 |
| | 0.97 | 7920 | 0.97 | 7920 | | 3.15 | 27030 | 3.15 | 26027 |
| | 1.47 | 17755 | 1.47 | 17755 | | 3.65 | 47380 | 3.65 | 45745 |
| | 1.97 | 26626 | 1.97 | 26626 | | 4.15 | 87600 | 4.15 | 85377 |
| | 2.47 | 37479 | 2.47 | 37479 | | 4.65 | 152253 | 4.65 | 149803 |
| | 2.97 | 58819 | 2.97 | 58819 | | 5.15 | 239881 | 5.15 | 237771 |
| | 3.47 | 92441 | 3.47 | 92261 | | 5.65 | 324836 | 5.65 | 322537 |
| | 3.97 | 139944 | 3.97 | 139609 | | 6.15 | 448271 | 6.15 | 445017 |
| | 4.47 | 251345 | 4.47 | 248760 | | 6.65 | 646470 | 6.65 | 641100 |
| | 4.97 | 443302 | 4.97 | 434809 | | 7.15 | 843561 | 7.15 | 835463 |
| | 5.47 | 604728 | 5.47 | 588138 | | 7.65 | 981743 | 7.65 | 968738 |
| | 5.97 | 740818 | 5.97 | 707018 | | 8.15 | 1062431 | 8.15 | 1029777 |
| | 6.47 | 836698 | 6.47 | 784898 | | 8.65 | 1118416 | 8.65 | 1069041 |
| | 6.97 | 870933 | 6.97 | 808802 | | 9.15 | 1148838 | 9.15 | 1090551 |
| | 7.47 | 881981 | 7.47 | 818666 | | 9.65 | 1158785 | 9.65 | 1099207 |
| | 7.97 | 884085 | 7.97 | 820200 | | 10.15 | 1160490 | 10.15 | 1100624 |
| | 8.47 | 884544 | 8.47 | 820596 | | 10.65 | 1160565 | 10.65 | 1100699 |
| | 8.97 | 884745 | 8.97 | 820797 | | 11.15 | 1160665 | 11.15 | 1100799 |

| | | | | | | | | | |
|-------------|------------------------|--------------------|----------------------|--------------------|-------------|------------------------|--------------------|----------------------|--------------------|
| | 9.47 | 884945 | 9.47 | 820997 | | 11.45 | 1160715 | 11.45 | 1100849 |
| | 9.86 | 885145 | 9.86 | 821197 | | 999.00 | 1160715 | 999.00 | 1100849 |
| | 999.00 | 885145 | 999.00 | 821197 | | | | | |
| Node | Corrected Model | | Revised Model | | Node | Corrected Model | | Revised Model | |
| | Depth (ft) | Area (sqft) | Depth (ft) | Area (sqft) | | Depth (ft) | Area (sqft) | Depth (ft) | Area (sqft) |
| 300010 | | | 0.00 | 436 | 300012 | | | 0 | 70487.0389 |
| | | | 2.98 | 436 | | | | 5.52 | 97250.6547 |
| | | | 3.48 | 796 | | | | 6.52 | 123810.6378 |
| | | | 3.98 | 2334 | | | | 999 | 123810.6378 |
| | | | 4.48 | 7744 | | | | 0 | 70487.0389 |
| | | | 4.98 | 13990 | Node | Corrected Model | | Revised Model | |
| | | | 5.48 | 39882 | | Depth (ft) | Area (sqft) | Depth (ft) | Area (sqft) |
| | | | 5.98 | 90871 | 300026 | | | 0 | 31318.78 |
| | | | 6.48 | 145472 | | | | 9 | 68389.54 |
| | | | 6.98 | 186551 | | | | 10 | 92517.88 |
| | | | 7.48 | 207892 | | | | 999 | 92517.88 |
| | | | 7.98 | 220378 | Node | Corrected Model | | Revised Model | |
| | | | 8.48 | 227046 | | Depth (ft) | Area (sqft) | Depth (ft) | Area (sqft) |
| | | | 8.98 | 232368 | 300032 | | | 0 | 48622.24 |
| | | | 9.48 | 237163 | | | | 5.74 | 100459.76 |
| | | | 9.98 | 242061 | | | | 6.74 | 136815.07 |
| | | | 10.48 | 247037 | | | | 999 | 136815.07 |
| | | | 10.98 | 251131 | Node | Corrected Model | | Revised Model | |
| | | | 11.48 | 253971 | | Depth (ft) | Area (sqft) | Depth (ft) | Area (sqft) |
| | | | 11.93 | 255204 | 300030 | | | 0.00 | 436 |
| | | | 999.00 | 255204 | | | | 3.20 | 436 |
| Node | Corrected Model | | Revised Model | | | | | 3.70 | 436 |
| | Depth (ft) | Area (sqft) | Depth (ft) | Area (sqft) | | | | 4.20 | 436 |
| 300020 | | | 0.00 | 436 | | | | 4.70 | 753 |
| | | | 3.60 | 436 | | | | 5.20 | 4273 |
| | | | 4.10 | 436 | | | | 5.70 | 16022 |
| | | | 4.60 | 436 | | | | 6.20 | 43235 |
| | | | 5.10 | 436 | | | | 6.70 | 91695 |
| | | | 5.60 | 436 | | | | 7.20 | 163043 |
| | | | 6.10 | 931 | | | | 7.70 | 211011 |
| | | | 6.60 | 3326 | | | | 8.20 | 226366 |
| | | | 7.10 | 6349 | | | | 8.48 | 230475 |
| | | | 7.60 | 14106 | | | | 999.00 | 230475 |
| | | | 8.10 | 20467 | Node | Corrected Model | | Revised Model | |
| | | | 8.60 | 23461 | | Depth (ft) | Area (sqft) | Depth (ft) | Area (sqft) |
| | | | 9.10 | 25452 | 230170 | 0.00 | 436 | 0.00 | 436 |
| | | | 9.60 | 25504 | | 5.97 | 436 | 3.09 | 436 |
| | | | 10.10 | 25505 | | 5.98 | 3185 | 3.59 | 436 |
| | | | 10.60 | 25506 | | 6.98 | 28780 | 4.09 | 436 |
| | | | 11.10 | 25506 | | 7.98 | 79123 | 4.59 | 436 |
| | | | 11.60 | 25507 | | 8.98 | 108044 | 5.09 | 641 |

| | | | |
|--|--|--------|-------|
| | | 35.10 | 46228 |
| | | 35.60 | 47563 |
| | | 36.10 | 48905 |
| | | 36.60 | 50255 |
| | | 37.10 | 51604 |
| | | 37.60 | 52955 |
| | | 38.10 | 54316 |
| | | 38.60 | 55676 |
| | | 39.10 | 57024 |
| | | 39.60 | 58409 |
| | | 40.10 | 59840 |
| | | 40.60 | 61342 |
| | | 41.10 | 62865 |
| | | 41.60 | 64479 |
| | | 42.10 | 66131 |
| | | 42.60 | 67885 |
| | | 43.10 | 69733 |
| | | 43.60 | 71683 |
| | | 44.10 | 73771 |
| | | 44.60 | 76037 |
| | | 45.10 | 78492 |
| | | 45.60 | 81215 |
| | | 46.10 | 84353 |
| | | 46.60 | 88182 |
| | | 47.10 | 92516 |
| | | 47.55 | 95135 |
| | | 999.00 | 95135 |

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|--|--|-------|-------|
| | | 5.62 | 2564 |
| | | 6.12 | 12004 |
| | | 6.62 | 30149 |
| | | 7.12 | 45449 |
| | | 7.62 | 52682 |
| | | 8.12 | 56816 |
| | | 8.62 | 59830 |
| | | 9.12 | 62533 |
| | | 9.62 | 65047 |
| | | 10.12 | 67395 |
| | | 10.62 | 69635 |
| | | 11.12 | 71719 |
| | | 11.62 | 73716 |
| | | 12.12 | 75628 |
| | | 12.62 | 77461 |
| | | 13.12 | 79243 |
| | | 13.62 | 80962 |
| | | 14.12 | 82645 |
| | | 14.62 | 84314 |
| | | 15.12 | 85984 |
| | | 15.62 | 87658 |
| | | 16.12 | 89319 |
| | | 16.62 | 90978 |
| | | 17.12 | 92638 |
| | | 17.62 | 94307 |
| | | 18.12 | 95981 |
| | | 18.62 | 97655 |

| Node | Corrected Model | | Revised Model | |
|--------|-----------------|-------------|---------------|-------------|
| | Depth (ft) | Area (sqft) | Depth (ft) | Area (sqft) |
| 300024 | | | 0.00 | 436 |
| | | | 6.20 | 436 |
| | | | 6.70 | 436 |
| | | | 7.20 | 436 |
| | | | 7.70 | 436 |
| | | | 8.20 | 436 |
| | | | 8.70 | 436 |
| | | | 9.20 | 436 |
| | | | 9.70 | 436 |
| | | | 10.20 | 436 |
| | | | 10.70 | 436 |
| | | | 11.20 | 436 |
| | | | 11.70 | 436 |
| | | | 12.20 | 436 |
| | | | 12.70 | 436 |
| | | | 13.20 | 436 |
| | | 13.70 | 436 | |

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|--|--|-------|--------|
| | | 19.12 | 99330 |
| | | 19.62 | 101008 |
| | | 20.12 | 102683 |
| | | 20.62 | 104356 |
| | | 21.12 | 106030 |
| | | 21.62 | 107709 |
| | | 22.12 | 109379 |
| | | 22.62 | 111057 |
| | | 23.12 | 112734 |
| | | 23.62 | 114422 |
| | | 24.12 | 116122 |
| | | 24.62 | 117825 |
| | | 25.12 | 119530 |
| | | 25.62 | 121219 |
| | | 26.12 | 122908 |
| | | 26.62 | 124596 |
| | | 27.12 | 126265 |
| | | 27.62 | 127886 |
| | | 28.12 | 129450 |

| | | | |
|--|--|--------|-------|
| | | 14.20 | 436 |
| | | 14.70 | 436 |
| | | 15.20 | 788 |
| | | 15.70 | 1557 |
| | | 16.20 | 3406 |
| | | 16.70 | 5383 |
| | | 17.20 | 7252 |
| | | 17.70 | 9040 |
| | | 18.20 | 10763 |
| | | 18.70 | 12399 |
| | | 19.20 | 13982 |
| | | 19.70 | 15510 |
| | | 20.20 | 16985 |
| | | 20.70 | 18420 |
| | | 21.20 | 19807 |
| | | 21.70 | 21174 |
| | | 22.20 | 22516 |
| | | 22.70 | 23866 |
| | | 23.20 | 25208 |
| | | 23.70 | 26547 |
| | | 24.20 | 27907 |
| | | 24.70 | 29484 |
| | | 25.20 | 31098 |
| | | 25.70 | 32704 |
| | | 26.20 | 34326 |
| | | 26.70 | 35893 |
| | | 27.20 | 37050 |
| | | 27.70 | 37525 |
| | | 28.20 | 37529 |
| | | 28.58 | 37532 |
| | | 999.00 | 37532 |

| | | | |
|--|--|--------|--------|
| | | 28.62 | 130964 |
| | | 29.12 | 132413 |
| | | 29.62 | 133839 |
| | | 30.12 | 135265 |
| | | 30.62 | 136681 |
| | | 31.12 | 138098 |
| | | 31.62 | 139514 |
| | | 32.12 | 140930 |
| | | 32.62 | 142340 |
| | | 33.12 | 143760 |
| | | 33.62 | 145187 |
| | | 34.12 | 146613 |
| | | 34.62 | 148028 |
| | | 35.12 | 149450 |
| | | 35.62 | 150892 |
| | | 36.12 | 152354 |
| | | 36.62 | 153836 |
| | | 37.12 | 155361 |
| | | 37.62 | 156890 |
| | | 38.12 | 158586 |
| | | 38.62 | 160298 |
| | | 39.12 | 162023 |
| | | 39.62 | 163801 |
| | | 40.12 | 165626 |
| | | 40.62 | 167532 |
| | | 41.12 | 169503 |
| | | 41.62 | 171475 |
| | | 42.12 | 173470 |
| | | 42.62 | 174834 |
| | | 999.00 | 174834 |

DRAFT

APPENDIX G

HEC-RAS Analysis

HEC-RAS NARRATIVE

Bridge 100048 on US 41 over Delaney Creek

Tampa, Florida



**Hydraulic Design By
Rummel, Klepper & Kahl, LLP
402 South Kentucky Ave. – Suite 400
Lakeland, FL 33801
(863) 682-4081**

April 2023

SUMMARY

The Florida Department of Transportation (FDOT) is proposing operational improvements along US 41 which will include widening and reconstruction of US 41, and changes to the existing bridge culvert #100048 over Delaney Creek within Hillsborough County. The existing overall length of the culvert is 120'. The bridge culvert consists of a triple 11-ft wide by 8-ft high concrete box culvert that is skewed 22 degrees.

EXISTING CONDITIONS

- Delaney Creek is not listed as a FEMA Floodway.
- The floodplain and channel near the bridge consists of trees and brush. Manning's 'n' values contained in the SWMM model of 0.12 and 0.50 for the floodplain, and 0.055 for the channel, are consistent with field observations.
- The vertical datum for this project and effective model is NAVD 88.

HEC-RAS

Effective Model

There is no effective model for the creek. The existing Delaney/Archie Creek Watershed model was obtained from Hillsborough County. The watershed model was analyzed using EPA SWMM Version 5.2.0. Flow data and tailwater information was obtained from this model and used to establish a corrected effective HEC-RAS model.

Corrected Effective Model

Plan: Existing (DelaneyCreek.p01)
Geometry: Existing (DelaneyCreek.g01)
Steady Flow: Delaney Creek (DelaneyCreek.f01)

Flows were obtained from the Delaney/Archie Creek Watershed modeled in EPA SWMM. Plan and Geometry files were created and named "Existing". The flows entered are the sum of the flows encountered within Link P210050A, P210050B, and P210050C from the SWMM model for the existing bridge culvert.

The following steps were taken to create the Existing Conditions model:

- All new cross sections were cut within HECRAS from the surveyed data from the project merged with the most recent LiDAR. Extra cross sections were cut due to the required typical of the proposed bridge.
- The cross sections at the bridge were adjusted within the model to accommodate the 22 degree skew.
- The distance from the existing bridge upstream face to cross section was set to 15 feet.
- The bridge deck/roadway elevations were input based on surveys completed as part of the roadway project. The high chord information includes the existing railing along with the highest roadway elevations.
- The existing bridge width was input as 120 feet.
- Contraction/Expansion coefficients for cross sections 611 and 772 were set to 0.3 and 0.5 respectively.

- Ineffective flow locations due to the existing bridge culvert were added to cross sections. The locations reflect a 1:1.5 contraction ratio upstream and downstream from the inside edge of the bridge culvert.

| Ineffective Stations | | |
|--------------------------------------|--------|--------|
| Cross Section 748 | 167.40 | 445.10 |
| Distance from US face of Bridge (ft) | 51.40 | 110.40 |
| Cross Section 674 | 223.50 | 300.50 |
| Distance from US face of Bridge (ft) | 14.00 | 14.00 |
| Contraction Ratio | 1.5 | |
| Upstream Bridge Opening Start/End | 244.50 | 279.50 |
| Downstream Bridge Opening Start/End | 189.50 | 224.50 |
| Expansion Ratio | 1.5 | |
| Distance from DS face of Bridge (ft) | 16.00 | 16.00 |
| Cross Section 524 | 165.50 | 248.50 |
| Distance from DS face of Bridge (ft) | 26.00 | 112.40 |
| Cross Section 458 | 150.50 | 393.10 |
| Distance from DS face of Bridge (ft) | 79.10 | 177.90 |
| Cross Section 397 | 70.85 | 491.35 |

Steady Flow File

The steady flow file was named “Delaney Creek (DelaneyCreek.f01)” and the boundary condition was set to a known water surface. The elevations for the downstream condition were taken from the SWMM model.

Revised Model

Plan: Proposed Box (DelaneyCreek.p02) and Proposed Bridge (DelaneyCreek.p03)
 Geometry: ProposedBox (DelaneyCreek.g02) and ProposedBridge (DelaneyCreek.g03)
 Steady Flow: Delaney Creek (DelaneyCreek.f01)

The Existing Conditions plan and geometry were saved as the Revised plan and geometry. The following changes were made to create the Revised model:

- The distance from the proposed bridge to the upstream cross section was revised to 15 feet. The bridge width was set to 300 feet as measured along the effective river line.
- The bridge deck/roadway data was revised to model the highest elevations of the roadway. This includes the bridge rail, and approach guardrail on either side of the proposed bridge.
- The low chord information is reflective of the lowest chord and takes into account the cross slope.
- The cross sections immediately upstream and downstream of the proposed bridge were modified to include 1:2 slopes down to the channel bottom and 10-ft wide abutments.
- The ineffective flow locations due to the bridge were revised and reflect the same 1:1.5 contraction ratio upstream and downstream from the inside edge of the bridge abutments as used in the Existing Conditions model.

| Concrete Box Culvert Ineffective Stations | | |
|--|--------|--------|
| Cross Section 890 | 226.15 | 466.65 |
| Distance from US face of Bridge (ft) | 58.90 | 78.10 |
| Cross Section 828 | 292.00 | 372.00 |
| Distance from US face of Bridge (ft) | 15.00 | 15.00 |
| Contraction Ratio | 1.5 | |
| Upstream Bridge Opening Start/End | 314.50 | 349.50 |
| Downstream Bridge Opening Start/End | 184.50 | 219.50 |
| Expansion Ratio | 1.5 | |
| Distance from DS face of Bridge (ft) | 10.00 | 10.00 |
| Cross Section 501 | 169.50 | 234.50 |
| Distance from DS face of Bridge (ft) | 18.30 | 69.60 |
| Cross Section 458 | 157.05 | 323.90 |
| Distance from DS face of Bridge (ft) | 71.40 | 135.10 |
| Cross Section 397 | 77.40 | 422.15 |

| Concrete Box Culvert Ineffective Stations | | |
|--|--------|--------|
| Cross Section 890 | 204.35 | 488.45 |
| Distance from US face of Bridge (ft) | 58.90 | 78.10 |
| Cross Section 828 | 270.20 | 393.80 |
| Distance from US face of Bridge (ft) | 15.00 | 15.00 |
| Contraction Ratio | 1.5 | |
| Upstream Bridge Opening Start/End | 292.70 | 371.30 |
| Downstream Bridge Opening Start/End | 162.30 | 241.70 |
| Expansion Ratio | 1.5 | |
| Distance from DS face of Bridge (ft) | 9.00 | 9.00 |
| Cross Section 501 | 148.80 | 255.20 |
| Distance from DS face of Bridge (ft) | 17.30 | 68.60 |
| Cross Section 458 | 136.35 | 344.60 |
| Distance from DS face of Bridge (ft) | 70.40 | 134.10 |
| Cross Section 397 | 56.70 | 241.70 |

HEC-RAS River: DelaneyCreek Reach: DelaneyCreek

| Reach | River Sta | Profile | Plan | Q Total (cfs) | Min Ch El (ft) | W.S. Elev (ft) | Crit W.S. (ft) | E.G. Elev (ft) | E.G. Slope (ft/ft) | Vel Chnl (ft/s) | Flow Area (sq ft) | Top Width (ft) | Froude # Chl |
|--------------|-----------|---------|---------|------------------|-------------------|-------------------|-------------------|-------------------|-----------------------|--------------------|----------------------|-------------------|--------------|
| DelaneyCreek | 1068 | 50yr | EXIST | 1066.00 | -3.24 | 7.92 | | 7.97 | 0.000304 | 1.87 | 919.83 | 256.95 | 0.11 |
| DelaneyCreek | 1068 | 50yr | BOX | 1066.00 | -3.24 | 7.90 | | 7.94 | 0.000308 | 1.88 | 914.09 | 256.37 | 0.11 |
| DelaneyCreek | 1068 | 50yr | BRIDGE | 1066.00 | -3.24 | 7.92 | | 7.97 | 0.000304 | 1.87 | 919.83 | 256.95 | 0.11 |
| DelaneyCreek | 1068 | 100yr | EXIST | 1112.00 | -3.24 | 8.12 | | 8.17 | 0.000296 | 1.87 | 973.07 | 265.95 | 0.11 |
| DelaneyCreek | 1068 | 100yr | BOX | 1112.00 | -3.24 | 8.11 | | 8.15 | 0.000298 | 1.88 | 968.83 | 265.15 | 0.11 |
| DelaneyCreek | 1068 | 100yr | BRIDGE | 1112.00 | -3.24 | 8.12 | | 8.17 | 0.000296 | 1.87 | 973.07 | 265.95 | 0.11 |
| DelaneyCreek | 1068 | 500yr | EXIST | 1305.00 | -3.24 | 8.66 | | 8.70 | 0.000305 | 1.98 | 1119.38 | 281.92 | 0.11 |
| DelaneyCreek | 1068 | 500yr | BOX | 1305.00 | -3.24 | 9.01 | | 9.05 | 0.000253 | 1.85 | 1222.62 | 299.05 | 0.10 |
| DelaneyCreek | 1068 | 500yr | BRIDGE | 1305.00 | -3.24 | 8.66 | | 8.70 | 0.000305 | 1.98 | 1119.38 | 281.92 | 0.11 |
| DelaneyCreek | 969 | 50yr | EXIST | 1066.00 | -2.81 | 7.91 | | 7.94 | 0.000210 | 1.54 | 1080.73 | 256.62 | 0.10 |
| DelaneyCreek | 969 | 50yr | BOX | 1066.00 | -2.81 | 7.88 | | 7.91 | 0.000213 | 1.54 | 1074.94 | 256.25 | 0.10 |
| DelaneyCreek | 969 | 50yr | BRIDGE | 1066.00 | -2.81 | 7.91 | | 7.94 | 0.000210 | 1.54 | 1080.73 | 256.62 | 0.10 |
| DelaneyCreek | 969 | 100yr | EXIST | 1112.00 | -2.81 | 8.11 | | 8.14 | 0.000205 | 1.54 | 1133.40 | 259.73 | 0.10 |
| DelaneyCreek | 969 | 100yr | BOX | 1112.00 | -2.81 | 8.09 | | 8.12 | 0.000207 | 1.55 | 1129.23 | 259.46 | 0.10 |
| DelaneyCreek | 969 | 100yr | BRIDGE | 1112.00 | -2.81 | 8.11 | | 8.14 | 0.000205 | 1.54 | 1133.40 | 259.73 | 0.10 |
| DelaneyCreek | 969 | 500yr | EXIST | 1305.00 | -2.81 | 8.64 | | 8.68 | 0.000215 | 1.65 | 1273.79 | 268.78 | 0.10 |
| DelaneyCreek | 969 | 500yr | BOX | 1305.00 | -2.81 | 9.00 | | 9.03 | 0.000181 | 1.56 | 1371.66 | 276.22 | 0.09 |
| DelaneyCreek | 969 | 500yr | BRIDGE | 1305.00 | -2.81 | 8.64 | | 8.68 | 0.000215 | 1.65 | 1273.79 | 268.78 | 0.10 |
| DelaneyCreek | 890 | 50yr | EXIST | 1066.00 | -4.25 | 7.89 | | 7.92 | 0.000199 | 1.51 | 1123.19 | 283.31 | 0.09 |
| DelaneyCreek | 890 | 50yr | BOX | 1066.00 | -4.25 | 7.87 | 0.16 | 7.90 | 0.000214 | 1.56 | 986.16 | 282.84 | 0.10 |
| DelaneyCreek | 890 | 50yr | BRIDGE | 1066.00 | -4.25 | 7.89 | | 7.92 | 0.000199 | 1.51 | 1123.19 | 283.31 | 0.09 |
| DelaneyCreek | 890 | 100yr | EXIST | 1112.00 | -4.25 | 8.10 | | 8.12 | 0.000194 | 1.52 | 1181.62 | 287.98 | 0.09 |
| DelaneyCreek | 890 | 100yr | BOX | 1112.00 | -4.25 | 8.08 | 0.25 | 8.11 | 0.000209 | 1.57 | 1034.02 | 287.54 | 0.10 |
| DelaneyCreek | 890 | 100yr | BRIDGE | 1112.00 | -4.25 | 8.10 | | 8.12 | 0.000194 | 1.52 | 1181.62 | 287.98 | 0.09 |
| DelaneyCreek | 890 | 500yr | EXIST | 1305.00 | -4.25 | 8.63 | | 8.66 | 0.000212 | 1.65 | 1352.50 | 348.66 | 0.10 |
| DelaneyCreek | 890 | 500yr | BOX | 1305.00 | -4.25 | 8.98 | 0.60 | 9.02 | 0.000186 | 1.58 | 1226.24 | 350.26 | 0.09 |
| DelaneyCreek | 890 | 500yr | BRIDGE | 1305.00 | -4.25 | 8.63 | | 8.66 | 0.000212 | 1.65 | 1352.50 | 348.66 | 0.10 |
| DelaneyCreek | 828 | 50yr | EXIST | 1066.00 | -3.94 | 7.89 | | 7.91 | 0.000118 | 1.19 | 1325.02 | 412.70 | 0.07 |
| DelaneyCreek | 828 | 50yr | BOX | 1066.00 | -3.60 | 7.85 | -0.70 | 7.89 | 0.000080 | 1.61 | 674.87 | 381.31 | 0.09 |
| DelaneyCreek | 828 | 50yr | BRIDGE | 1066.00 | -3.94 | 7.89 | | 7.91 | 0.000118 | 1.19 | 1325.02 | 412.70 | 0.07 |
| DelaneyCreek | 828 | 100yr | EXIST | 1112.00 | -3.94 | 8.09 | | 8.11 | 0.000115 | 1.20 | 1410.25 | 419.55 | 0.07 |
| DelaneyCreek | 828 | 100yr | BOX | 1112.00 | -3.60 | 8.06 | -0.63 | 8.10 | 0.000081 | 1.64 | 691.62 | 387.93 | 0.09 |
| DelaneyCreek | 828 | 100yr | BRIDGE | 1112.00 | -3.94 | 8.09 | | 8.11 | 0.000115 | 1.20 | 1410.25 | 419.55 | 0.07 |
| DelaneyCreek | 828 | 500yr | EXIST | 1305.00 | -3.94 | 8.62 | | 8.65 | 0.000120 | 1.27 | 1634.65 | 423.99 | 0.07 |
| DelaneyCreek | 828 | 500yr | BOX | 1305.00 | -3.60 | 8.96 | -0.31 | 9.01 | 0.000081 | 1.75 | 763.78 | 394.71 | 0.10 |
| DelaneyCreek | 828 | 500yr | BRIDGE | 1305.00 | -3.94 | 8.62 | | 8.65 | 0.000120 | 1.27 | 1634.65 | 423.99 | 0.07 |
| DelaneyCreek | 748 | 50yr | EXIST | 1066.00 | -3.68 | 7.88 | 0.37 | 7.89 | 0.000236 | 1.62 | 858.56 | 458.24 | 0.10 |
| DelaneyCreek | 748 | 50yr | BRIDGE | 1066.00 | -3.68 | 7.86 | 0.37 | 7.89 | 0.000236 | 1.62 | 858.56 | 458.24 | 0.10 |
| DelaneyCreek | 748 | 100yr | EXIST | 1112.00 | -3.68 | 8.07 | 0.46 | 8.10 | 0.000196 | 1.51 | 1283.96 | 473.82 | 0.09 |
| DelaneyCreek | 748 | 100yr | BRIDGE | 1112.00 | -3.68 | 8.07 | 0.46 | 8.10 | 0.000196 | 1.51 | 1283.96 | 473.82 | 0.09 |
| DelaneyCreek | 748 | 500yr | EXIST | 1305.00 | -3.68 | 8.80 | 0.79 | 8.63 | 0.000193 | 1.56 | 1543.62 | 492.57 | 0.09 |
| DelaneyCreek | 748 | 500yr | BRIDGE | 1305.00 | -3.68 | 8.80 | 0.79 | 8.63 | 0.000193 | 1.56 | 1543.62 | 492.57 | 0.09 |
| DelaneyCreek | 674 | 50yr | EXIST | 1066.00 | -3.66 | 7.82 | 0.25 | 7.87 | 0.000303 | 1.91 | 584.67 | 431.60 | 0.11 |
| DelaneyCreek | 674 | 50yr | BRIDGE | 1066.00 | -3.66 | 7.82 | 0.25 | 7.87 | 0.000303 | 1.91 | 584.67 | 431.60 | 0.11 |
| DelaneyCreek | 674 | 100yr | EXIST | 1112.00 | -3.66 | 8.02 | 0.33 | 8.08 | 0.000304 | 1.94 | 600.55 | 431.60 | 0.12 |
| DelaneyCreek | 674 | 100yr | BRIDGE | 1112.00 | -3.66 | 8.02 | 0.33 | 8.08 | 0.000304 | 1.94 | 600.55 | 431.60 | 0.12 |
| DelaneyCreek | 674 | 500yr | EXIST | 1305.00 | -3.66 | 8.59 | 0.67 | 8.62 | 0.000206 | 1.66 | 1354.89 | 431.60 | 0.10 |
| DelaneyCreek | 674 | 500yr | BRIDGE | 1305.00 | -3.66 | 8.59 | 0.67 | 8.62 | 0.000206 | 1.66 | 1354.89 | 431.60 | 0.10 |
| DelaneyCreek | 600 | | Culvert | | | | | | | | | | |
| DelaneyCreek | 524 | 50yr | EXIST | 1066.00 | -3.27 | 7.40 | 0.86 | 7.48 | 0.000408 | 2.23 | 562.83 | 335.83 | 0.13 |
| DelaneyCreek | 524 | 50yr | BRIDGE | 1066.00 | -3.27 | 7.40 | 0.86 | 7.48 | 0.000408 | 2.23 | 562.83 | 335.83 | 0.13 |
| DelaneyCreek | 524 | 100yr | EXIST | 1112.00 | -3.27 | 7.57 | 0.95 | 7.65 | 0.000414 | 2.27 | 576.87 | 335.83 | 0.14 |
| DelaneyCreek | 524 | 100yr | BRIDGE | 1112.00 | -3.27 | 7.57 | 0.95 | 7.65 | 0.000414 | 2.27 | 576.87 | 335.83 | 0.14 |
| DelaneyCreek | 524 | 500yr | EXIST | 1305.00 | -3.27 | 8.31 | 1.30 | 8.34 | 0.000244 | 1.84 | 1432.36 | 335.83 | 0.11 |
| DelaneyCreek | 524 | 500yr | BRIDGE | 1305.00 | -3.27 | 8.31 | 1.30 | 8.34 | 0.000244 | 1.84 | 1432.36 | 335.83 | 0.11 |
| DelaneyCreek | 501 | 50yr | BOX | 1066.00 | -4.10 | 7.41 | -1.21 | 7.46 | 0.000080 | 1.68 | 635.95 | 321.92 | 0.09 |
| DelaneyCreek | 501 | 100yr | BOX | 1112.00 | -4.10 | 7.58 | -1.13 | 7.63 | 0.000082 | 1.72 | 646.93 | 321.92 | 0.10 |
| DelaneyCreek | 501 | 500yr | BOX | 1305.00 | -4.10 | 8.30 | -0.81 | 8.35 | 0.000090 | 1.88 | 693.23 | 321.92 | 0.10 |
| DelaneyCreek | 458 | 50yr | EXIST | 1066.00 | -4.61 | 7.38 | 0.11 | 7.44 | 0.000440 | 2.07 | 601.99 | 394.77 | 0.13 |
| DelaneyCreek | 458 | 50yr | BOX | 1066.00 | -4.61 | 7.38 | 0.10 | 7.44 | 0.000446 | 2.08 | 576.61 | 394.73 | 0.14 |
| DelaneyCreek | 458 | 50yr | BRIDGE | 1066.00 | -4.61 | 7.38 | 0.11 | 7.44 | 0.000440 | 2.07 | 601.99 | 394.77 | 0.13 |
| DelaneyCreek | 458 | 100yr | EXIST | 1112.00 | -4.61 | 7.55 | 0.20 | 7.61 | 0.000438 | 2.09 | 643.18 | 400.00 | 0.13 |
| DelaneyCreek | 458 | 100yr | BOX | 1112.00 | -4.61 | 7.55 | 0.20 | 7.62 | 0.000445 | 2.11 | 604.91 | 400.00 | 0.14 |
| DelaneyCreek | 458 | 100yr | BRIDGE | 1112.00 | -4.61 | 7.55 | 0.20 | 7.61 | 0.000438 | 2.09 | 643.18 | 400.00 | 0.13 |
| DelaneyCreek | 458 | 500yr | EXIST | 1305.00 | -4.61 | 8.29 | 0.56 | 8.33 | 0.000285 | 1.80 | 1306.02 | 400.00 | 0.11 |
| DelaneyCreek | 458 | 500yr | BOX | 1305.00 | -4.61 | 8.27 | 0.56 | 8.34 | 0.000432 | 2.21 | 724.70 | 400.00 | 0.14 |
| DelaneyCreek | 458 | 500yr | BRIDGE | 1305.00 | -4.61 | 8.29 | 0.56 | 8.33 | 0.000285 | 1.80 | 1306.02 | 400.00 | 0.11 |
| DelaneyCreek | 397 | 50yr | EXIST | 1066.00 | -3.75 | 7.36 | 0.93 | 7.42 | 0.000399 | 1.99 | 718.18 | 242.32 | 0.13 |
| DelaneyCreek | 397 | 50yr | BOX | 1066.00 | -3.75 | 7.36 | 0.94 | 7.42 | 0.000402 | 2.00 | 706.48 | 242.32 | 0.13 |
| DelaneyCreek | 397 | 50yr | BRIDGE | 1066.00 | -3.75 | 7.36 | 0.93 | 7.42 | 0.000399 | 1.99 | 718.18 | 242.32 | 0.13 |
| DelaneyCreek | 397 | 100yr | EXIST | 1112.00 | -3.75 | 7.53 | 1.02 | 7.59 | 0.000396 | 2.02 | 747.63 | 247.13 | 0.13 |
| DelaneyCreek | 397 | 100yr | BOX | 1112.00 | -3.75 | 7.53 | 1.02 | 7.59 | 0.000400 | 2.02 | 734.81 | 247.13 | 0.13 |
| DelaneyCreek | 397 | 100yr | BRIDGE | 1112.00 | -3.75 | 7.53 | 1.02 | 7.59 | 0.000396 | 2.02 | 747.63 | 247.13 | 0.13 |
| DelaneyCreek | 397 | 500yr | EXIST | 1305.00 | -3.75 | 8.25 | 1.38 | 8.31 | 0.000360 | 2.04 | 1003.90 | 258.50 | 0.13 |
| DelaneyCreek | 397 | 500yr | BOX | 1305.00 | -3.75 | 8.25 | 1.38 | 8.31 | 0.000382 | 2.10 | 864.59 | 258.50 | 0.13 |
| DelaneyCreek | 397 | 500yr | BRIDGE | 1305.00 | -3.75 | 8.25 | 1.38 | 8.31 | 0.000360 | 2.04 | 1003.90 | 258.50 | 0.13 |

Contraction Scour

| | Left | Channel | Right |
|---------------------------|--------|---------|-------|
| Input Data | | | |
| Average Depth (ft): | 2.72 | 8.01 | 1.57 |
| Approach Velocity (ft/s): | 0.39 | 1.68 | 0.63 |
| Br Average Depth (ft): | 0.61 | 8.49 | 0.61 |
| BR Opening Flow (cfs): | 1.77 | 1108.45 | 1.77 |
| BR Top WD (ft): | 10.00 | 78.60 | 10.00 |
| Grain Size D50 (mm): | 0.33 | 0.33 | 0.33 |
| Approach Flow (cfs): | 151.13 | 941.72 | 19.16 |
| Approach Top WD (ft): | 143.95 | 70.10 | 19.17 |
| K1 Coefficient: | 0.640 | 0.690 | 0.640 |
| Results | | | |
| Scour Depth Ys (ft): | 0.00 | 0.02 | 0.00 |
| Critical Velocity (ft/s): | 1.36 | 1.63 | 1.24 |
| Equation: | Clear | Live | Clear |

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Contraction Scour

| | Left | Channel | Right |
|---------------------------|--------|---------|-------|
| Input Data | | | |
| Average Depth (ft): | 3.44 | 8.73 | 2.05 |
| Approach Velocity (ft/s): | 0.44 | 1.72 | 0.73 |
| Br Average Depth (ft): | 1.33 | 9.21 | 1.33 |
| BR Opening Flow (cfs): | 6.27 | 1292.47 | 6.27 |
| BR Top WD (ft): | 10.00 | 78.60 | 10.00 |
| Grain Size D50 (mm): | 0.33 | 0.33 | 0.33 |
| Approach Flow (cfs): | 216.98 | 1055.00 | 33.02 |
| Approach Top WD (ft): | 143.95 | 70.10 | 21.99 |
| K1 Coefficient: | 0.640 | 0.690 | 0.640 |
| Results | | | |
| Scour Depth Ys (ft): | 0.00 | 0.39 | 0.00 |
| Critical Velocity (ft/s): | 1.41 | 1.65 | 1.30 |
| Equation: | Clear | Live | Clear |

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APPENDIX H

Scour Analysis

Delaney Creek Bridge Scour Calculations (100 Year)

Step 1: Determine if scour is in live bed or clear water condition

$V_c > V$ is clear water

Determine the critical velocity of the partical

$$V_c = K_u y^{1/6} D_{50}^{1/3}$$

V_c Critical Velocity (ft/s)

K_u Unit correction factor (11.17 ft-lb-s)

y flow depth (ft)

D_{50} grain size of particle (ft)

V main velocity in channel ft/s

y 4.73 ft

D_{50} 0.33 mm

D_{50} 0.001083 ft

V_c 1.486037 ft/s

V 3.42 ft/s

livebed

Assumptions:

y flow depth in link C210060A added to the initial depth in node 210050

V max velocity calculated in Link C210060A

Delaney Creek Bridge Scour Calculations (100 Year)

Step 2: Determine contraction scour

$$\frac{y_2}{y_1} = \left(\frac{Q_2}{Q_1} \right)^{6/7} \left(\frac{W_1}{W_2} \right)^{k_1}$$

- y_1 Average depth of upstream channel (ft)
- y_0 Average depth in the contracted section (ft)
- Q_1 Discharge in the upstream channel (cfs)
- Q_2 Discharge in the contracted channel
- W_1 Channel width in the upstream channel
- W_2 Bottom width of the contracted channel minus any pier widths
- K_1 Exponent listed in Table 5.5-1 of Drainage Design Guide

$$y_s = y_2 - y_0$$

y_s Average Contraction Scour Depth

Determine k_1 value

- V^* $(gy_1S_1)^{0.5}$ Shear velocity in upstream section (ft/s)
- w Fall velocity of bed material on D_{50} (ft/s) (Figure 5.5-3 of Drainage Design Guide)
- g Acceleration of gravity 32.17 ft/s²
- T_0 Shear stress on the bed lbf/ft²
- ρ Density of water 1.94 slugs/ft³

w 0.048 g 32.17
 ρ 1.94 S_1 0.000576
 y_1 4.73

V^*/w 1.880142 K_1 0.64

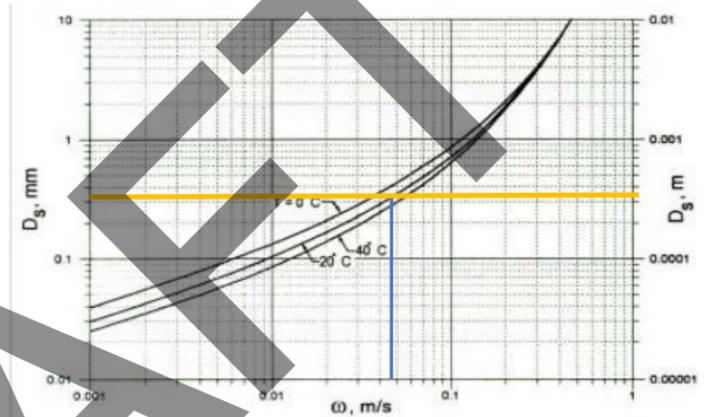


Figure 5.5-3: Fall Velocity of Sediment Particles with Diameter D_s and Specific Gravity of 2.65 (Source: HEC 18, 2001)

Table 5.5-1: Determination of Exponent, K_1

| V^*/ω | K_1 | Mode of bed material transport |
|--------------|-------|---|
| <0.50 | 0.59 | Mostly contact bed material discharge |
| 0.50 to 2.0 | 0.64 | Some suspended bed material discharge |
| >2.0 | 0.69 | Mostly suspended bed material discharge |

y_1 4.73 Q_1 1463.91 W_1 43
 y_0 7.65 Q_2 1131.66 W_2 11

Assumptions:

- Q_1 Link C210060A
- Q_2 Link C210050A
- W_1 Transect C210060A
- W_2 Transect C210050A

y_0 Avg. Depth at Node 210050

y_s 1.42742

Delaney Creek Bridge Scour Calculations (500 Year)

Step 1: Determine if scour is in live bed or clear water condition

$V_c > V$ is clear water

Determine the critical velocity of the partical

$$V_c = K_u y^{1/6} D_{50}^{1/3}$$

V_c Critical Velocity (ft/s)

K_u Unit correction factor (11.17 ft-lb-s)

y flow depth (ft)

D_{50} grain size of particle (ft)

V main velocity in channel ft/s

y 4.77 ft

D_{50} 0.33 mm

D_{50} 0.001083 ft

V_c 1.488124 ft/s

V 3.66 ft/s

livebed

Assumptions:

y flow depth in link C210060A added to the initial depth in node 210050

V max velocity calculated in Link C210060A

Delaney Creek Bridge Scour Calculations (500 Year)

Step 2: Determine contraction scour

$$\frac{y_2}{y_1} = \left(\frac{Q_2}{Q_1} \right)^{6/7} \left(\frac{W_1}{W_2} \right)^{k_1}$$

- y_1 Average depth of upstream channel (ft)
- y_0 Average depth in the contracted section (ft)
- Q_1 Discharge in the upstream channel (cfs)
- Q_2 Discharge in the contracted channel
- W_1 Channel width in the upstream channel
- W_2 Bottom width of the contracted channel minus any pier widths
- K_1 Exponent listed in Table 5.5-1 of Drainage Design Guide

$$y_s = y_2 - y_0$$

y_s Average Contraction Scour Depth

Determine k_1 value

- V^* $(gy_1S_1)^{0.5}$ Shear velocity in upstream section (ft/s)
- w Fall velocity of bed material on D_{50} (ft/s) (Figure 5.5-3 of Drainage Design Guide)
- g Acceleration of gravity 32.17 ft/s²
- T_0 Shear stress on the bed lbf/ft²
- ρ Density of water 1.94 slugs/ft³

w 0.048 g 32.17
 ρ 1.94 S_1 0.000576
 y_1 4.77

V^*/w 1.888075 K_1 0.64

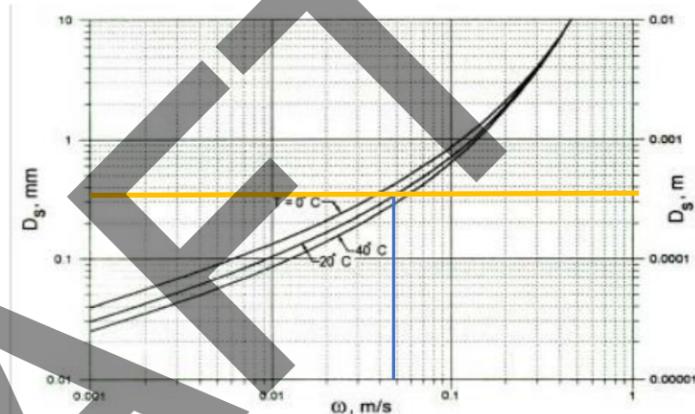


Figure 5.5-3: Fall Velocity of Sediment Particles with Diameter D_s and Specific Gravity of 2.65 (Source: HEC 18, 2001)

Table 5.5-1: Determination of Exponent, K_1

| V^*/ω | K_1 | Mode of bed material transport |
|--------------|-------|---|
| <0.50 | 0.59 | Mostly contact bed material discharge |
| 0.50 to 2.0 | 0.64 | Some suspended bed material discharge |
| >2.0 | 0.69 | Mostly suspended bed material discharge |

y_1 4.77 Q_1 1731.74 W_1 43
 y_0 8.68 Q_2 1368.99 W_2 11

Assumptions:

- Q_1 Link C210060A
- Q_2 Link C210050A
- W_1 Transect C210060A
- W_2 Transect C210050A

y_0 Avg. Depth at Node 210050

y_s 0.651418

Estimating Scour Hole Geometry in a Cohesionless Soil
 Reference: Hydraulic Engineering Circular No. 14, FHWA NHI 06-086, July 2006

Comp. By = VV
 Date = 11/7/2022
 Checked By = LL
 Date = 11/11/2022

Units

English

D = 8 ft Culvert Depth (substituted depth of flow)
 W = 33 ft Culvert Width (combines all barrels)
 S = 0.001538 % Channel Slope
 Drop Height = 0 ft Drop Height
 Q = 1123.39 ft³/s Flowrate

$$\sigma = (D_{84} / D_{16})^{0.5}$$

Using geotech info for D₈₄ and D₁₆

σ = 1.67

Solution

Step 1

Determine magnitude and duration of the peak discharge:

Q = 1123.39 ft³/s
 t = 30 minutes (HEC-14 Section 5.1.2)

Step 2

Compute the full flow hydraulic radius, R_c:

$$R_c = \frac{A}{P}$$

R_c = 4.062 ft

Step 3

Compute the height above bed ratio, H_d, for slopes >0%

$$H_d = \frac{\text{DropHeight}}{\text{Diameter}}$$

H_d = 0

Step 4

The coefficients of scour obtained from Table 5.1, Table 5.2, and Table 5.3 are:

| | α | β | θ | C _s | C _h |
|------------------------|--------|------|------|----------------|----------------|
| Depth, h _s | 2.27 | 0.39 | 0.06 | 1.00 | 1.00 |
| Width, W _s | 6.94 | 0.53 | 0.08 | 1.00 | 1.00 |
| Length, L _s | 17.1 | 0.47 | 0.1 | 1.00 | 1.00 |
| Volume, V _s | 127.08 | 1.24 | 0.18 | 1.00 | 1.00 |

*Note: α, β, θ will always be the same

Delaney Creek Culvert Scour (100 Year)

Step 5

Determine the material standard deviation.

$$\sigma = 1.666667$$

Step 6

Compute the scour hole dimensions using Equation 5.1:

$$\left[\frac{h_s}{R_c}, \frac{W_s}{R_c}, \frac{L_s}{R_c}, \frac{V_s}{R_c^3} \right] = C_s C_h \left(\frac{\alpha}{\sigma^{1/3}} \right) \left(\frac{Q}{\sqrt{g} R_c^{2.5}} \right)^\beta \left(\frac{t}{316} \right)^\theta$$

Depth

$$h_s = C_s C_h \left(\frac{\alpha}{\sigma^{1/3}} \right) \left(\frac{Q}{\sqrt{g} (R_c^{2.5})} \right)^\beta \left(\frac{t}{316} \right)^\theta R_c$$

$$h_s = 13.54 \text{ ft} \quad \text{Depth of scour}$$

Width

$$W_s = C_s C_h \left(\frac{\alpha}{\sigma^{1/3}} \right) \left(\frac{Q}{\sqrt{g} (R_c^{2.5})} \right)^\beta \left(\frac{t}{316} \right)^\theta R_c$$

$$W_s = 50.70 \text{ ft} \quad \text{Width of scour}$$

Length

$$L_s = C_s C_h \left(\frac{\alpha}{\sigma^{1/3}} \right) \left(\frac{Q}{\sqrt{g} (R_c^{2.5})} \right)^\beta \left(\frac{t}{316} \right)^\theta R_c$$

$$L_s = 107.07 \text{ ft} \quad \text{Length of scour}$$

Volume

$$V_s = C_s C_h \left(\frac{\alpha}{\sigma^{1/3}} \right) \left(\frac{Q}{\sqrt{g} (R_c^{2.5})} \right)^\beta \left(\frac{t}{316} \right)^\theta R_c^3$$

$$V_s = 42952.1 \text{ ft}^3$$

Step 7

Compute the location of maximum scour. $L_m = 0.4 L_s$

$$L_m = 42.83 \text{ ft} \quad \text{downstream of bridge face}$$

Estimating Scour Hole Geometry in a Cohesionless Soil

Reference: Hydraulic Engineering Circular No. 14, FHWA NHI 06-086, July 2006

Comp. By = VV
 Date = 11/7/2022
 Checked By = LL
 Date = 11/11/2022

Units

English

D = 8 ft Culvert Depth (substituted depth of flow)
 W = 33 ft Culvert Width (combined all barrels)
 S = 0.001538 % Channel Slope
 Drop Height = 0 ft Drop Height
 Q = 1316.14 ft³/s Flowrate

$$\sigma = (D_{84} / D_{16})^{0.5}$$

Using geotech info for D₈₄ and D₁₆

σ = 1.67

Solution

Step 1

Determine magnitude and duration of the peak discharge:

Q = 1316.14 ft³/s
 t = 30 minutes (HEC-14 Section 5.1.2)

Step 2

Compute the full flow hydraulic radius, R_c:

$$R_c = \frac{A}{P}$$

R_c = 4.062 ft

Step 3

Compute the height above bed ratio, H_d, for slopes >0%

$$H_d = \frac{\text{DropHeight}}{\text{Diameter}}$$

H_d = 0

Step 4

The coefficients of scour obtained from Table 5.1, Table 5.2, and Table 5.3 are:

| | α | β | θ | C _s | C _h |
|------------------------|--------|------|------|----------------|----------------|
| Depth, h _s | 2.27 | 0.39 | 0.06 | 1.00 | 1.00 |
| Width, W _s | 6.94 | 0.53 | 0.08 | 1.00 | 1.00 |
| Length, L _s | 17.1 | 0.47 | 0.1 | 1.00 | 1.00 |
| Volume, V _s | 127.08 | 1.24 | 0.18 | 1.00 | 1.00 |

*Note: α, β, θ will always be the same

Delaney Creek Culvert Scour (500-Year)

Step 5

Determine the material standard deviation.

$$\sigma = 1.666667$$

Step 6

Compute the scour hole dimensions using Equation 5.1:

$$\left[\frac{h_s}{R_c}, \frac{W_s}{R_c}, \frac{L_s}{R_c}, \frac{V_s}{R_c^3} \right] = C_s C_h \left(\frac{\alpha}{\sigma^{1/3}} \right) \left(\frac{Q}{\sqrt{g} R_c^{2.5}} \right)^\beta \left(\frac{t}{316} \right)^\theta$$

Depth

$$h_s = C_s C_h \left(\frac{\alpha}{\sigma^{1/3}} \right) \left(\frac{Q}{\sqrt{g} R_c^{2.5}} \right)^\beta \left(\frac{t}{316} \right)^\theta R_c$$

$$h_s = 14.40 \text{ ft} \quad \text{Depth of scour}$$

Width

$$W_s = C_s C_h \left(\frac{\alpha}{\sigma^{1/3}} \right) \left(\frac{Q}{\sqrt{g} R_c^{2.5}} \right)^\beta \left(\frac{t}{316} \right)^\theta R_c$$

$$W_s = 55.14 \text{ ft} \quad \text{Width of scour}$$

Length

$$L_s = C_s C_h \left(\frac{\alpha}{\sigma^{1/3}} \right) \left(\frac{Q}{\sqrt{g} R_c^{2.5}} \right)^\beta \left(\frac{t}{316} \right)^\theta R_c$$

$$L_s = 115.34 \text{ ft} \quad \text{Length of scour}$$

Volume

$$V_s = C_s C_h \left(\frac{\alpha}{\sigma^{1/3}} \right) \left(\frac{Q}{\sqrt{g} R_c^{2.5}} \right)^\beta \left(\frac{t}{316} \right)^\theta R_c^3$$

$$V_s = 52271.0 \text{ ft}^3$$

Step 7

Compute the location of maximum scour. $L_m = 0.4 L_s$

$$L_m = 46.14 \text{ ft} \quad \text{downstream of bridge face}$$

36th Avenue Scour Calculations (100 Year)

Step 1: Determine if scour is in live bed or clear water condition

$V_c > V$ is clear water

Determine the critical velocity of the partical

$$V_c = K_u y^{1/6} D_{50}^{1/3}$$

V_c Critical Velocity (ft/s)

K_u Unit correction factor (11.17 ft-lb-s)

y flow depth (ft)

D_{50} grain size of particle (ft)

V main velocity in channel ft/s

y 0.78 ft

D_{50} 0.3 mm

D_{50} 0.000984 ft

V_c 1.066034

V 0.0001

clearwater

Assumptions:

y flow depth calculated for the storm in Link W210050A

V max velocity calculated in Link W210050A

36th Avenue Scour Calculations (100 Year)

Step 2: Determine contraction scour

$$y_2 = \left[\frac{K_u Q^2}{D_m^{2/3} W^2} \right]^{3/7}$$

- y_2 Average depth in the contracted section (ft)
- Q Discharge through the bridge (cfs)
- D_m Diameter of the smallest nontransportable particle in the bed ($1.25D_{50}$) (ft)
- D_{50} Median diameter of bed material (ft)
- W Bottom width of the contracted channel minus any pier widths
- y_0 Average depth in the contracted channel
- K_u 0.0077

$$Y_s = Y_2 - Y_0$$

- Y_s Average Contraction Scour Depth

100 YEAR CONTRACTION SCOUR

| | | | | | |
|-------|--------|-------|---------|-------|------|
| K_u | 0.0077 | D_m | 0.00123 | Y_0 | 0.78 |
| Q | 0.1 | W | 149.8 | | |

Y_s -0.7784 Negative scour, assume 0ft

Assumptions:

Q Link W210050A

W Assumed bridge over 36th Ave. with vert. abutments

36th Avenue Scour Calculations (500 Year)

Step 1: Determine if scour is in live bed or clear water condition

$V_c > V$ is clear water

Determine the critical velocity of the partical

$$V_c = K_u y^{1/6} D_{50}^{1/3}$$

V_c Critical Velocity (ft/s)

K_u Unit correction factor (11.17 ft-lb-s)

y flow depth (ft)

D_{50} grain size of particle (ft)

V main velocity in channel ft/s

y 1.58 ft

D_{50} 0.3 mm

D_{50} 0.000984 ft

V_c 1.199126

V 0.0001

clearwater

Assumptions:

y flow depth calculated for the storm in Link W210050A

V max velocity calculated in Link W210050A

36th Avenue Scour Calculations (500 Year)

Step 2: Determine contraction scour

$$y_2 = \left[\frac{K_u Q^2}{D_m^{2/3} W^2} \right]^{3/7}$$

- y_2 Average depth in the contracted section (ft)
- Q Discharge through the bridge (cfs)
- D_m Diameter of the smallest nontransportable particle in the bed ($1.25D_{50}$) (ft)
- D_{50} Median diameter of bed material (ft)
- W Bottom width of the contracted channel minus any pier widths
- y_0 Average depth in the contracted channel
- K_u 0.0077

$$y_s = y_2 - y_0$$

- y_s Average Contraction Scour Depth

100 YEAR CONTRACTION SCOUR

| | | | | | |
|-------|--------|-------|---------|-------|------|
| K_u | 0.0077 | D_m | 0.00123 | y_0 | 1.58 |
| Q | 0.5 | W | 149.8 | | |

y_s -1.57365 Negative scour, assume 0ft

Assumptions:

Q Link W210050A

W Assumed bridge over 36th Ave. with vert. abutments

CSX Scour Calculations (100 Year)

Step 1: Determine if scour is in live bed or clear water condition

$V_c > V$ is clear water

Determine the critical velocity of the partical

$$V_c = K_u y^{1/6} D_{50}^{1/3}$$

V_c Critical Velocity (ft/s)

K_u Unit correction factor (11.17 ft-lb-s)

y flow depth (ft)

D_{50} grain size of particle (ft)

V main velocity in channel ft/s

y 0.88 ft

D_{50} 4.2 mm

D_{50} 0.01378 ft

V_c 2.621471

V 0.0001

clearwater

Assumptions:

y flow depth calculated for the storm in Link W210930A

V max velocity calculated in Link W210930A

CSX Scour Calculations (100 Year)

Step 2: Determine contraction scour

$$y_2 = \left[\frac{K_u Q^2}{D_m^{2/3} W^2} \right]^{3/7}$$

- y_2 Average depth in the contracted section (ft)
 Q Discharge through the bridge (cfs)
 D_m Diameter of the smallest nontransportable particle in the bed ($1.25D_{50}$) (ft)
 D_{50} Median diameter of bed material (ft)
 W Bottom width of the contracted channel minus any pier widths
 y_0 Average depth in the contracted channel
 K_u 0.0077

$$y_s = y_2 - y_0$$

- y_s Average Contraction Scour Depth

100 YEAR CONTRACTION SCOUR

| | | | | | |
|-------|--------|-------|----------|-------|------|
| K_u | 0.0077 | D_m | 0.017224 | y_0 | 0.88 |
| Q | 0.37 | W | 414 | | |

y_s **-0.87903** Negative scour, assume 0ft

Assumptions:

- Q Link W210930A
- W Assumed bridge over CSX. with vert. abutments

CSX Scour Calculations (500 Year)

Step 1: Determine if scour is in live bed or clear water condition

$V_c > V$ is clear water

Determine the critical velocity of the partical

$$V_c = K_u y^{1/6} D_{50}^{1/3}$$

V_c Critical Velocity (ft/s)

K_u Unit correction factor (11.17 ft-lb-s)

y flow depth (ft)

D_{50} grain size of particle (ft)

V main velocity in channel ft/s

y 1.9 ft

D_{50} 4.2 mm

D_{50} 0.01378 ft

V_c 2.980279

V 0.0001

clearwater

Assumptions:

y flow depth calculated for the storm in Link W210930A

V max velocity calculated in Link W210930A

CSX Scour Calculations (500 Year)

Step 2: Determine contraction scour

$$y_2 = \left[\frac{K_u Q^2}{D_m^{2/3} W^2} \right]^{3/7}$$

- y_2 Average depth in the contracted section (ft)
- Q Discharge through the bridge (cfs)
- D_m Diameter of the smallest nontransportable particle in the bed ($1.25D_{50}$) (ft)
- D_{50} Median diameter of bed material (ft)
- W Bottom width of the contracted channel minus any pier widths
- y_0 Average depth in the contracted channel
- K_u 0.0077

$$Y_s = Y_2 - Y_0$$

- Y_s Average Contraction Scour Depth

100 YEAR CONTRACTION SCOUR

| | | | | | |
|-------|--------|-------|----------|-------|-----|
| K_u | 0.0077 | D_m | 0.017224 | y_0 | 1.9 |
| Q | 2.46 | W | 414 | | |

Y_s -1.8951

 Negative scour, assume 0ft

Assumptions:

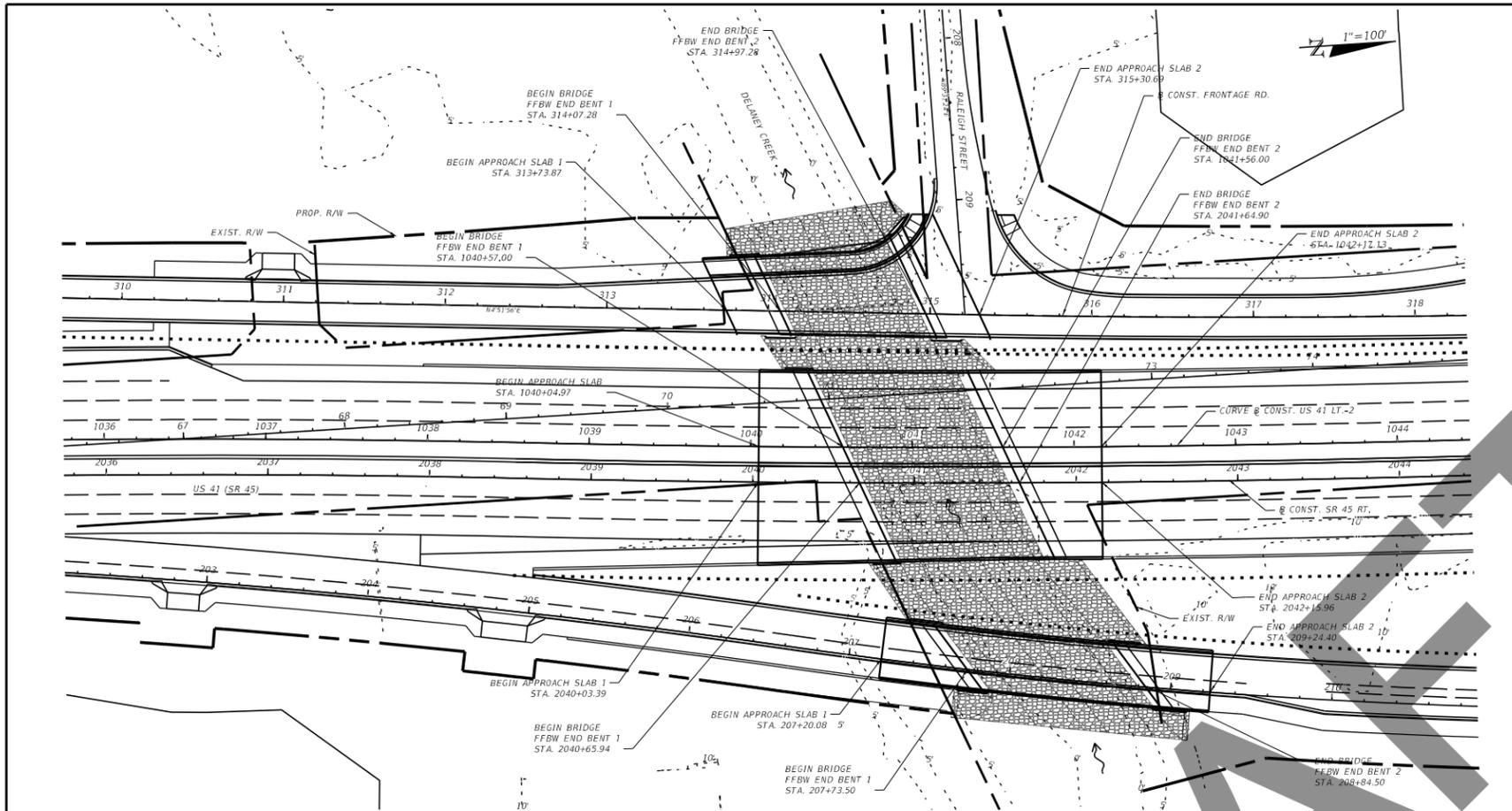
- Q Link W210930A
- W Assumed bridge over CSX. with vert. abutments

DRAFT

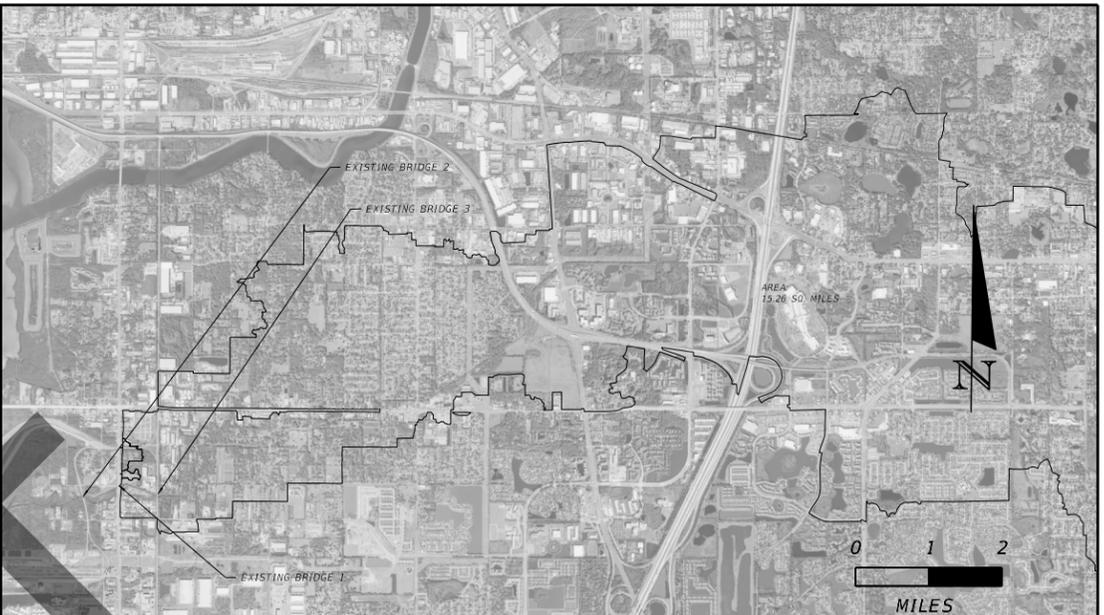
APPENDIX I

Bridge Hydraulics Recommendation Sheet

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This sheet has been included in the plans for documentation. DO NOT USE FOR CONSTRUCTION PURPOSES. BRIDGE NO. 3



| (REFERENCE) | EXISTING STRUCTURES | | | | PROPOSED STRUCTURE |
|----------------------|---------------------|-----------------|-----------------|-----|--------------------|
| | (1) Concrete | (2) Timber | (3) Timber | (4) | Concrete |
| FOUNDATION | 120' | 100' | 56' | | 99' |
| OVERALL LENGTH | N/A | Unknown | Unknown | | 99' |
| SPAN LENGTH | (3) 11'X8' Culvert | Timber | Timber | | Concrete |
| TYPE CONSTRUCTION | 264 | Unknown | Unknown | | 405 SF |
| AREA OF OPENING@D.F. | 33' | Railroad (West) | Railroad (East) | | 136.10' |
| BRIDGE WIDTH | N/A | Unknown | Unknown | | 9.884 |
| ELEV. LOW MEMBER | | | | | |

NOTE:
 The hydraulic data is shown for informational purposes only to indicate the flood discharges and water surface elevations which may be anticipated in any given year. This data was generated using highly variable factors determined by a study of the watershed. Many judgements and assumptions are required to establish these factors. The resultant hydraulic data is sensitive to changes, particularly antecedent conditions, urbanization, channelization and land use. Users of this data are cautioned against the assumption of precision which cannot be obtained.

TERMS:
 Design Flood: Utilized to assure a desired level of hydraulic performance.
 Base Flood: Has a 1% chance of being exceeded in any given year (100 year frequency)
 Overtopping Flood: Causes flow over the highway, over a watershed divide, or thru emergency relief structures.
 Greatest Flood: The most severe that can be predicted where overtopping is not practicable.

| WATER SURFACE ELEVATIONS: | N.H.W. (Non-Tidal) | | M.H.W. (Tidal) | |
|---------------------------|---------------------|--|----------------|--|
| | CONTROL (Non-Tidal) | | M.L.W. (Tidal) | |
| | | | 0.52 | |
| | | | -1.29 | |

| FLOOD DATA: | MAX. EVENT OF RECORD | DESIGN FLOOD | BASE FLOOD | <input type="checkbox"/> OVERTOPPING or <input checked="" type="checkbox"/> GREATEST FLOOD |
|------------------------|----------------------|--------------|------------|--|
| STAGE ELEV. NAVD (ft) | Unknown | 7.49 | 7.66 | 8.38 |
| DISCHARGE (cfs) | Unknown | 1066 | 1112 | 1305 |
| AVERAGE VELOCITY (f/s) | Unknown | 1.61 | 1.64 | 1.74 |
| EXCEEDANCE PROB. (%) | Unknown | 2.0 | 1.0 | 0.2 |
| FREQUENCY (yr.) | Unknown | 50 | 100 | 500 |

| PIER INFORMATION | | TOTAL SCOUR ELEVATION | | |
|------------------|---------------|-----------------------|----------------------------------|----------------------------------|
| NUMBERS | SIZE AND TYPE | LONG TERM SCOUR ELEV. | WORST CASE < 100 yr. FREQ. (yr.) | WORST CASE < 500 yr. FREQ. (yr.) |
| N/A | N/A | N/A | 0.02 | 0.39 |

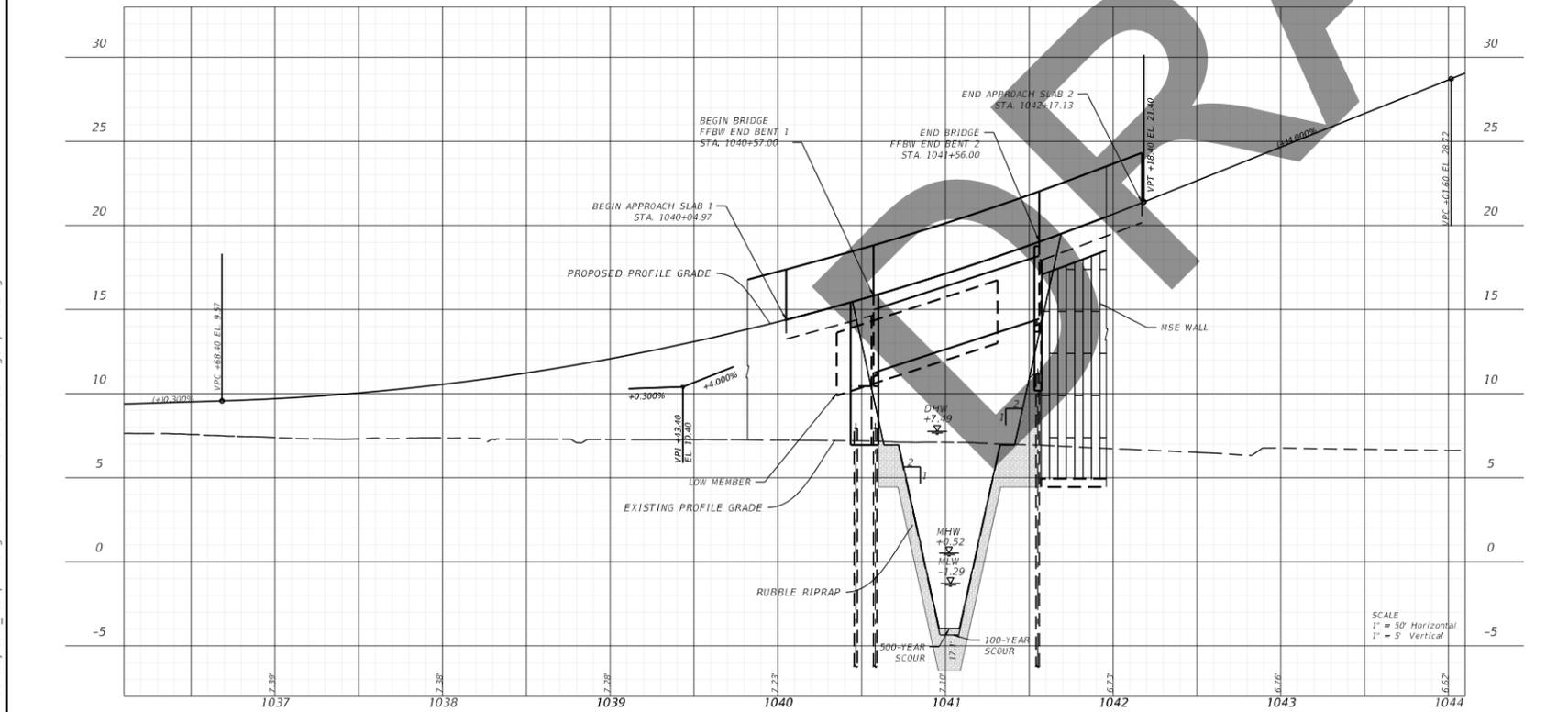
HYDRAULIC RECOMMENDATIONS

- BEGIN BRIDGE STATION 1040+57.00 END BRIDGE STATION 1041+56.00 SKEW ANGLE 0.00
- CLEARANCE PROVIDED: NAV: HORIZ. N/A VERT. N/A ABOVE EL. N/A DRIFT: HORIZ. 93.0' VERT. 2.39' ABOVE EL. 7.49'
- MINIMUM CLEARANCE: NAV: HORIZ. N/A VERT. N/A ABOVE EL. N/A DRIFT: HORIZ. N/A VERT. 2.00' ABOVE EL. 7.49'
- ABUTMENTS:

| | | |
|--|----------------------------------|-------------------|
| | BEGIN BRIDGE | END BRIDGE |
| | RUBBLE GRADE: | Bank and Shore |
| | SLOPE: | 1:2 |
| | BURIED OR NON-BURIED HORIZ. TOE: | Non-Buried |
| | TOE HORIZ. DISTANCE: | 10' |
| | LIMIT OF PROTECTION: | 150' Lt. 185' Rt. |
| | | 173' Lt. 202' Rt. |

5. DECK DRAINAGE: SPREAD IS CONTAINED IN SHOULDER, RUNOFF CAPTURED BY INLETS AT BEGIN BRIDGE.

REMARKS: The proposed bridges were modeled as one structure in the HEC-RAS model due to their proximity within the channel. Hydraulic analysis is based on the riverine flows. The structural design will consider the effects from the storm surge in addition to the riverine flow.



| REVISIONS | | | | PROFESSIONAL TYPE | STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION | | | SHEET NO. |
|-----------|-------------|------|-------------|--|---|--------------|----------------------|-----------|
| DATE | DESCRIPTION | DATE | DESCRIPTION | | ROAD NO. | COUNTY | FINANCIAL PROJECT ID | |
| | | | | ELIZABETH A. LORELLO, P.E. LICENSE NUMBER 74699 RUMMEL KLEPPER & KAHL, LLP 402 S. KENTUCKY AVE, SUITE 400 LAKELAND, FL 33801 | US 41 | HILLSBOROUGH | 440749-1-52-01 | |

BRIDGE HYDRAULIC RECOMMENDATIONS SHEET

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.