

Attachment A - Feasibility Study

for

Cypress Street Outfall Regional Stormwater Improvements

Prepared By: Interflow Engineering, L.L.C.
IE Project No. 2016_TA04

Prepared For: City of Tampa, FL
Project No. 115219651

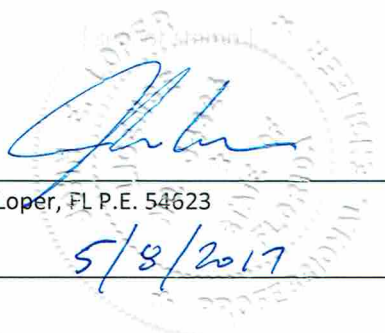
May 8, 2017



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Certification

Not valid unless stamped or embossed with Engineer's Seal, signed and dated in contrasting color ink.	
<p>This report, Feasibility Study for Cypress Street Outfall Phase 2 Corridor, is based on materials provided to or gathered by Interflow Engineering, L.L.C. on or prior to May 8 2017. This report was prepared under the responsible charge of John Loper, and is based on the professional engineer's knowledge, experience, and belief, in accordance with commonly accepted procedures consistent with applicable standards of practice.</p> <p>Interflow Engineering, L.L.C. 14499 N. Dale Mabry Hwy, Suite 290, Tampa, FL 33618 P: (813) 322-3876 W: www.interfloweng.com</p> <p>Certificate of Authorization No. 26901</p>	 <p>_____ John Loper, FL P.E. 54623</p> <p>_____ 5/8/2017</p> <p>_____ Date</p>

Appendices

- A. Field Visit Photographs
- B. Conceptual Plans
- C. Engineer's Opinion of Probable Construction Cost
- D. Benefit – Cost Ratio

1. Executive Summary

The purpose of this study is to evaluate the feasibility of constructing stormwater conveyance improvement features which, based on hydrologic and hydraulic modeling prepared by others, will reduce flooding depth and duration on Cass Street, Rome Avenue, Gray Street, and the surrounding area. The proposed conveyance features (**Figure 1**) consist of two segments. Segment 1 consists of twin 8-feet (wide) by 8-feet (high) reinforced concrete box (RCB) culvert along Cass Street from N Boulevard to Rome Avenue, and along Rome Avenue from Cass Street to Gray Street; and twin 6-feet (wide) by 5-feet (high) RCB culvert along Rome Avenue from Gray Street to Kennedy Boulevard. Segment 2 consists of a single 12 feet (wide) by 5 feet (high) RCB along Gray Street from Tampania Avenue to Howard Avenue; and a single 12 feet (wide) by 7 feet (high) RCB along Gray Street from Howard Avenue to Rome Avenue. These dimensions are based on the Environmental Resource Permit (ERP) [43041855.000](#) approved by the Southwest Florida Water Management District (SWFWMD). This project connects to a recently constructed twin 9-feet (wide) by 7-feet (high) RCB at North Boulevard and Cass Street, which runs north to Cypress Street, and then east along Cypress Street to the Hillsborough River.



Figure 1. Proposed RCB Culvert Dimensions

The surrounding area is highly urbanized; therefore the construction activities would impact transportation, access to residences and businesses, trees in or near right-of-way, and utilities.

The installation of the proposed RCB culverts would relieve flooding along the proposed route, while accommodating existing utilities. In addition, the project includes the installation of a proposed 36" diameter water main, parallel to the box culvert, along the majority of the project corridor. Full pavement and curb restoration along the route will be required. Typical sections are provided in **Figures 2** through **6**.

In order to calculate the Benefit – Cost Ratio (BCR) for the project, the City of Tampa provided Interflow with model results for storm events for the existing and proposed conditions. Interflow analyzed these results in order to estimate the potential damages due to flooding of structures (including content) and roads (including repair and travel delays) for each storm event modeled. Kennedy Boulevard, south of Cass Street, would greatly benefit from the proposed project based on the proposed model results. Other benefits include replacing aging infrastructure (e.g. VCP sanitary sewers) and reconstructing roads.

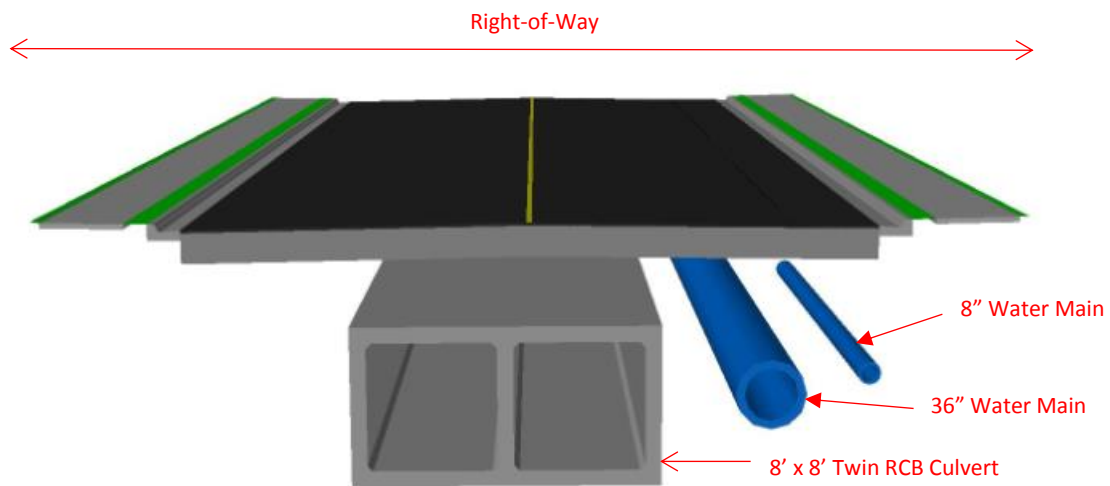


Figure 2. 3D Rendering of Cass Street Typical Section (NTS)

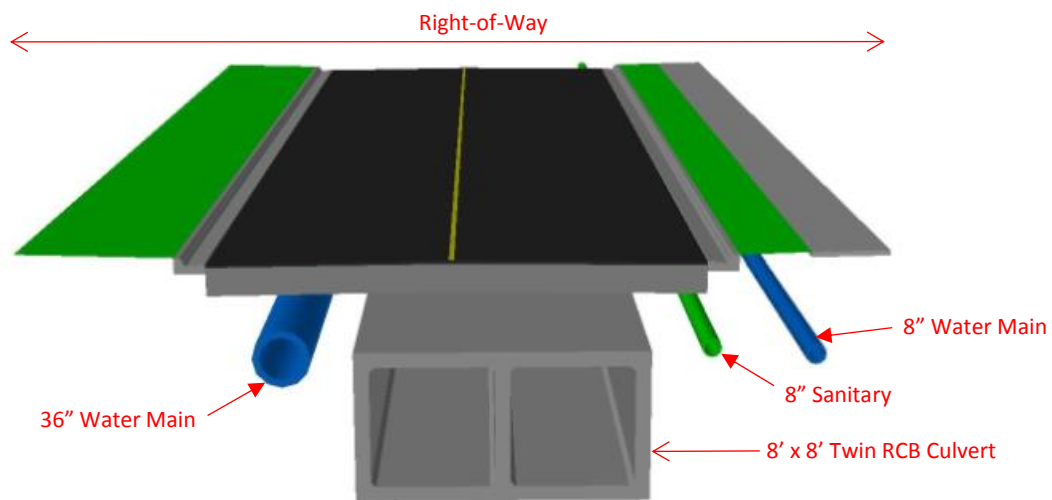


Figure 3. 3D Rendering of Rome Avenue north of Gray Street Typical Section (NTS)

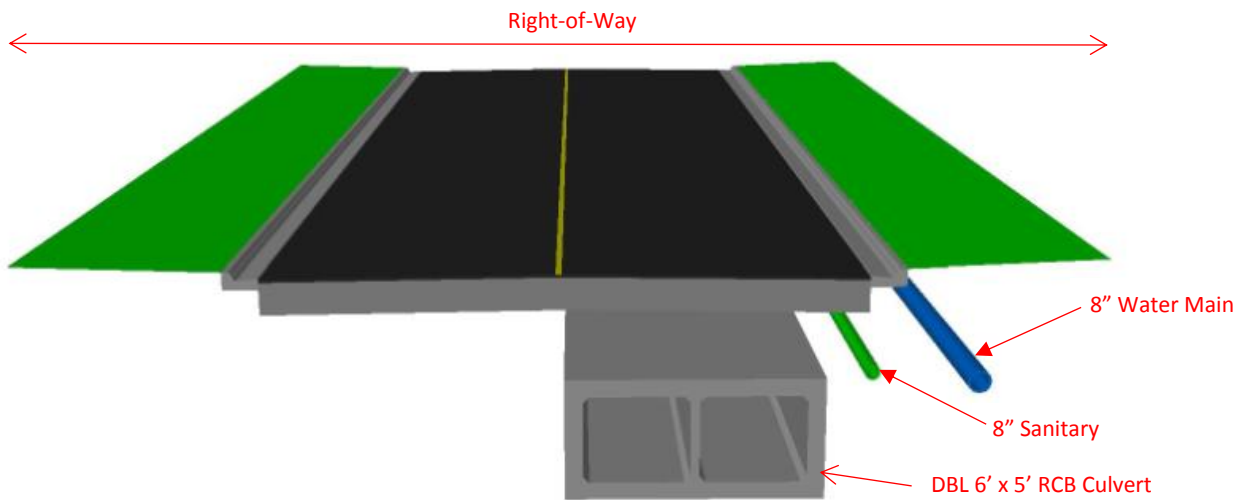


Figure 4. 3D Rendering of Rome Avenue south of Gray Street Typical Section (NTS)

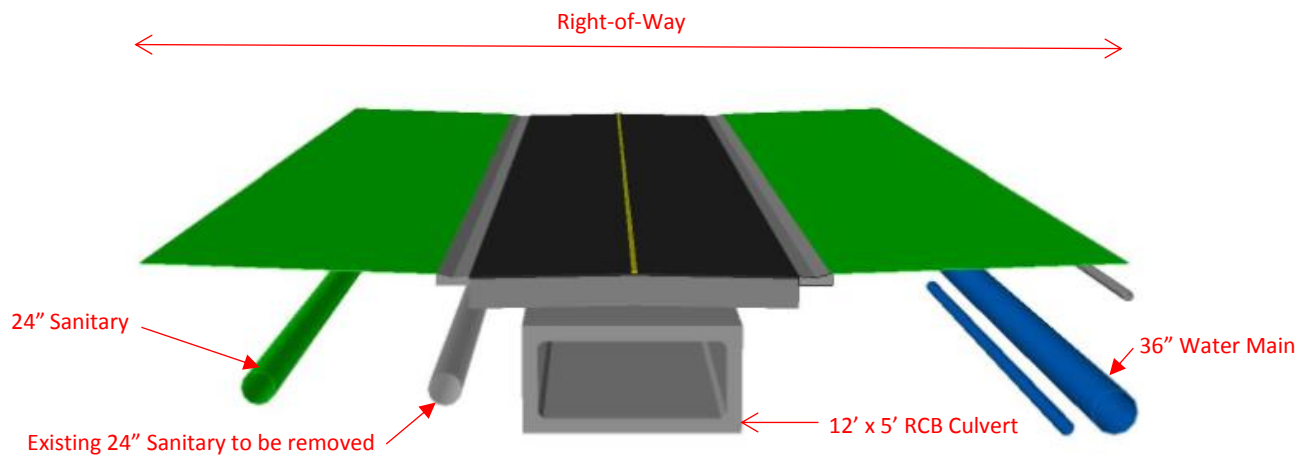


Figure 5. 3D Rendering of Gray Street west of Howard Avenue Typical Section (NTS)

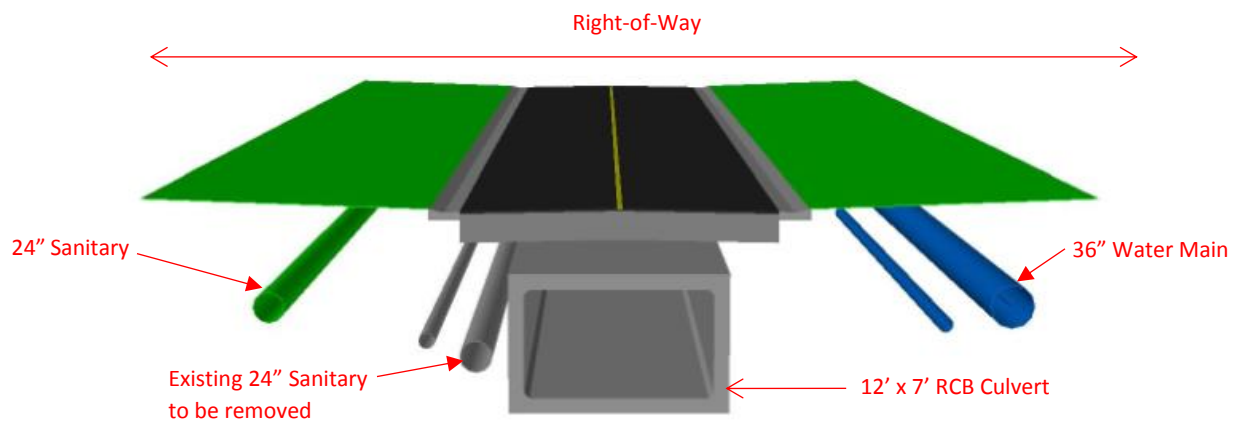


Figure 6. 3D Rendering of Gray Street east of Howard Avenue Typical Section (NTS)

The Engineer's Opinion of Probable Construction Cost based on the conceptual plans is approximately \$30.4 million, which includes the installation of the 36" water main (see **Appendix C**). Because the proposed 36" water main is not part of the flood protection project, that component was not included in the benefit-cost ratio. Without the 36" water main, the Engineer's Opinion of Probable Construction Cost is \$25.5 million. The project benefit savings (avoided damages), based on the flood level reductions predicted by the City's existing and proposed conditions models, would be approximately \$39.6 million. The BCR is therefore 1.55, indicating that the benefits of the project exceed the construction cost.

Based on the information available to the authors at the time of this report, the construction of the proposed stormwater conveyance improvements appears to be feasible and cost effective. Conceptual plans were developed based on available information (**Appendix B**). Existing information on the conceptual plans was compiled from available geographic information system (GIS) data, LiDAR-based topography, and as-built construction plans from the City's files. A comprehensive field survey will provide more accurate and complete description of existing features and facilities. However, it is also important to note that small differences in topography, right-of-way limits, property lines, horizontal and vertical locations of utilities, disposition of trees, etc. will not affect the overall feasibility of this project.

Additionally, hydrologic and hydraulic modeling completed by others was used to determine the proposed box culvert dimensions. That modeling effort should be refined and augmented as necessary to account for the connections and sizing of local drainage features along the route, as shown on the Conceptual Plans, with associated adjustments to the primary conveyance features if deemed necessary.

1.1. Recommendations

Interflow, after reviewing the available information, visiting the project area several times, and meeting with various stakeholders, recommends the City do the following:

1. Coordinate with regulatory agencies,
2. Complete a topographic and route survey,
3. Complete a formal tree assessment of all trees in or immediately adjacent to the right-of-way,
4. Complete a geotechnical investigation at regular intervals to assess soils for stability and unsuitable materials,
5. Update and refine the hydrologic/hydraulic analysis for proposed box culvert and local drainage,
6. Create new base drawings and proceed with formal design, and
7. Conduct extensive public outreach, including neighborhood meetings.

2. Introduction

The City of Tampa (City) has requested Interflow Engineering, LLC (Interflow) provide a feasibility study, including Benefit – Cost Ratio (BCR), and conceptual plans for the construction of stormwater conveyance improvements (box culverts) in the Cypress Street Outfall project area. Any conceivable route for the stormwater conveyance improvements will impact existing developed areas, as the entire area is mostly developed with little or no vacant land. This feasibility study seeks to identify and characterize unavoidable impacts to local transportation, trees, utilities, and access to homes and businesses.

The original scope of services was to include improvements along Cypress Street from Excelda Avenue to North Boulevard, and on Gray Street from Westland Avenue to Fremont Avenue, north to Cass Street, and along Cass Street to North Boulevard, with an assessment of alternate routes for the stormwater improvements. After an initial assessment, the City and Interflow decided to exclude the Cypress Street portion area and focus on Cass Street, Rome Avenue, and Gray Street due to reports from recent extreme rainfall and flooding events. Furthermore, the City has recently constructed a twin 9' by 7' box culvert along North Boulevard from Cypress Street to Cass Street, and the City has a conceptual permit for proposed conveyance improvements along Cass Street, Rome Avenue, Gray Street and Westland Avenue (see [ERP 43041855.000](#)). This report focuses on the corridor along Cass Street and Rome Avenue, as well as the segment along Gray Street.

3. Field Visit

On August 5, 2015 Interflow conducted a field visit to Cass Street and Gray Street with the City. The purpose of this field visit was to locate features such as major trees and above ground power lines that could potentially be affected by the proposed project. No major trees were found in the Cass Street area but the Gray Street area has several 24" or greater diameter trees within the public right-of-way. Several above ground power lines were documented throughout the project area. Street parking along the south side of Cass Street is common and would be affected during construction. Underground utilities were also documented, including fiber optic cable on the south side of Cass Street. Photographs from this visit are on **Appendix A**.

4. Existing Stormwater Infrastructure

Existing drainage problems on Rome Avenue are frequent and severe. **Figure 7** depicts the existing stormwater infrastructure. Cass Street has no existing stormwater collection system, while Rome Avenue has an antiquated and undersized system which causes major flooding issues. Recent flooding events have been documented in the Tampa Bay Tribune article on August 9, 2015 (Fox, 2015). This article reported structure flooding at 310 N Rome Avenue, to a depth of 18 to 30 inches.

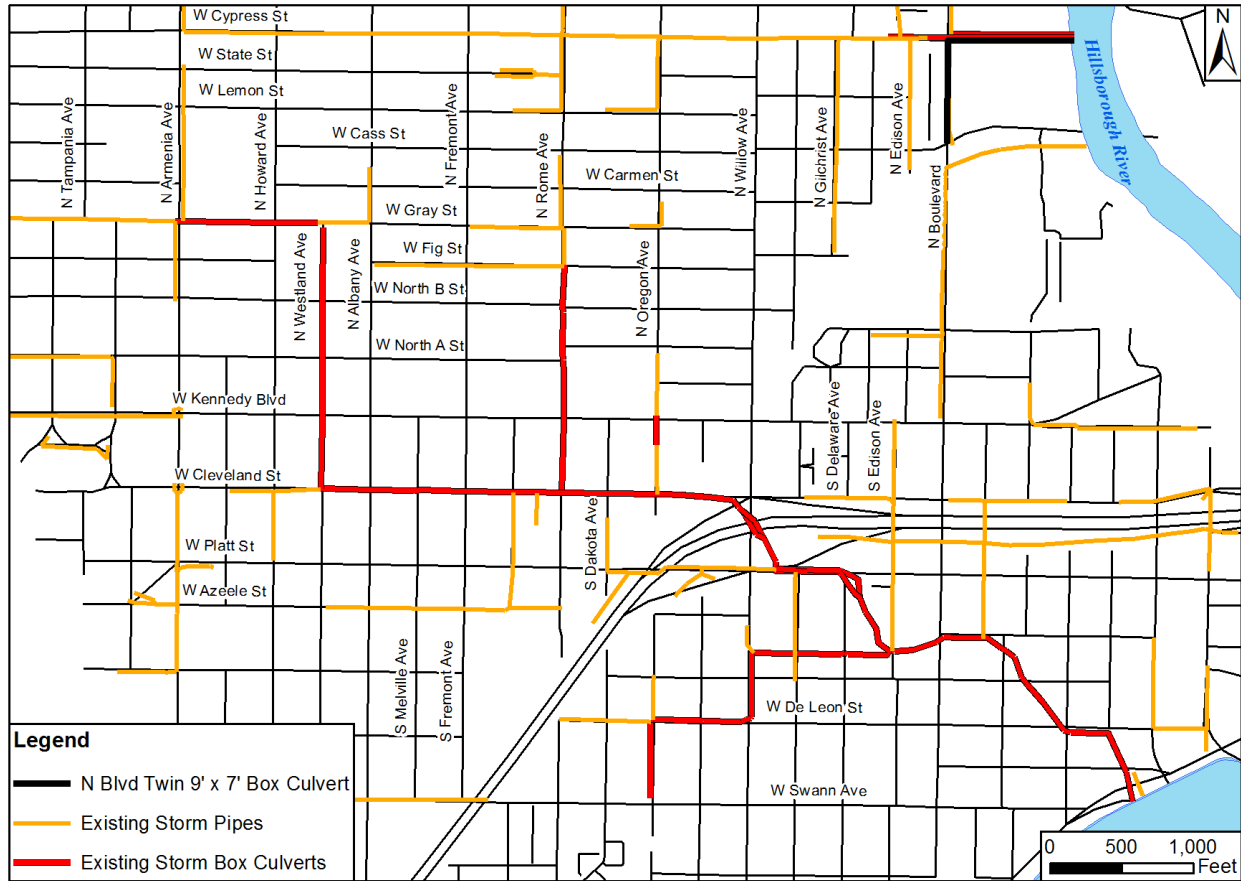


Figure 7. Existing Stormwater Infrastructure

Additional analysis will be necessary to ensure local stormwater collection systems connected to the proposed box culvert will function properly. In particular, it will be necessary to evaluate the proposed hydraulic grade line within the box culvert, to ensure it will be a sufficient depth below the level of connecting inlets for the design storm of interest.

5. Proposed Improvements

The Study Area has an approved Conceptual Environmental Resource Permit (ERP) for the proposed features (see [ERP 43041855.000](#), Spanish Town Creek Stormwater Improvements and Cypress Street Outfall Upgrade). The proposed conditions are similar to approved features from ERP 43041855.000, as shown in **Figure 8**. Twin 8' by 8' box culverts are proposed along Cass Street from the connection of the twin 9' by 7' box culverts in construction at N Boulevard to Rome Avenue. The twin 8' by 8' box culverts would continue south along Rome Avenue to Gray Street. South of Gray Street, along Rome Avenue, the dimensions of the box culverts decrease to twin 6' by 5' to Kennedy Boulevard. Segment 2 consists of a 12' by 5' box culvert along Gray Street from Tampania Avenue to Howard Avenue and a 12' by 7' RCB culvert east of Howard Avenue to Rome Avenue. During formal design, hydraulically equivalent double

box culverts should be evaluated as alternatives to the proposed 12' x 5' and 12' x 7' box culverts along Gray Street for potential cost savings.

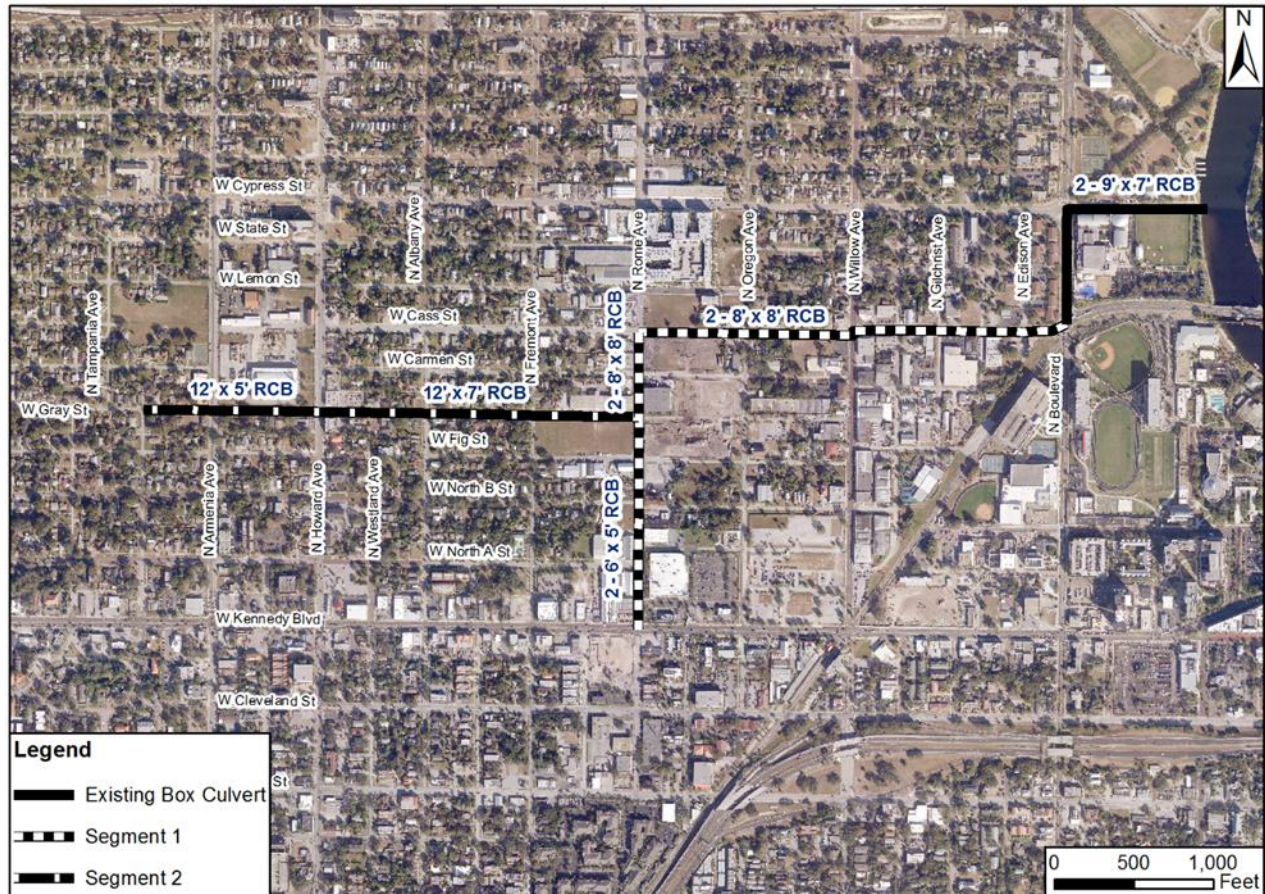


Figure 8. Proposed Conveyance Improvements

5.1. Topographic Information

No survey (topographic, boundary or specific purpose) was conducted for this study, report, or conceptual construction plans. Elevation information was exclusively based on public available LiDAR data from the Florida Division of Emergency Management (FDEM) development and maintenance of Regional Evacuation Studies. Vertical accuracy of the LiDAR data is approximately ±0.3-feet for unobscured areas.

The LiDAR data was used to create Digital Elevation Models (DEMs) for the project area using 5-feet by 5-feet cell. The DEM reduces the accuracy of the topographic information by homogenizing information in a given area (5-feet by 5-feet area). The overall surface information has an accuracy greater than ±0.3-feet for unobscured areas and even less for highly vegetated areas. The DEM was used in AutoCAD Civil 3D to create profile depictions of the proposed improvements.

5.2. Utility Impacts

Interflow reviewed the available utility information provided by the City and other utility owners. Accommodating existing utilities appears possible, with the greatest difficulty accommodating existing gravity utilities (storm and sanitary sewer) and maintaining separations for the potable water mains. A list of utility owners contacted and coordinated with is provided below:

- Fiberlight LLC (communications)
- TW Telecom Tampa (communications)
- Bright House Networks (communications)
- Verizon (communications)
- TECO (electricity, mostly overhead)
- TECO Peoples Gas (natural gas)
- Tampa Pipeline Corp (fuel pipeline)
- Tampa Water Department (potable water, sewer, reclaimed)

5.2.1. City of Tampa Utility Information – Existing Utilities

The City of Tampa provided utility Information for Wastewater, Stormwater, Potable Water, and Reclaimed Water structures in the vicinity of the proposed route. The elevations contained in the provided utility information was based on several different datum, for example a local datum (referred to as City Bench Mark “A”) and National Geodetic Vertical Datum of 1929 (NGVD29).

The following assumptions were used to adjust all elevation information to approximately North American Vertical Datum of 1988 (NAVD88):

1. All data with an installation date prior to 1970 is City Bench Mark “A”
2. All data with an installation date after 1970 is NGVD29

Conversion Equations to NAVD88 for the given Datums are:

City Bench Mark “A” – 1.02 = NAVD88

Based on City of Tampa’s guidance (via email 2/20/2015)

NGVD29 – 0.86 = NAVD88

Based on [NOAA Website](#)

When information is obviously unknown, for example:

1. the rim elevation is -99, -88, or 0, a value from the existing topographic elevation will be used
2. the invert elevation is -99 or -88 an approximate value will be used based on surrounding information and engineering judgment

For utilities not explicitly located (see **Table 1**), Interflow assumed the following depths to the top of the utility.

Table 1. Approximate Depth for Utilities Not Located

Utility	Depth
Water	3-feet below land surface
Reclaimed Water	4-feet below land surface
Gas	4-feet below land surface

5.2.2. Proposed Water Main Improvements

In conjunction with the proposed stormwater improvements, the City intends to construct a portion of a potable water transmission and distribution project, to include a 36" diameter transmission main along the Cass Street, Gray Street, and Rome Avenue (between Cass and Gray Streets) portions of the project corridor. To that end, the City Water Department provided 60% construction plans and CAD files for incorporation into the conceptual drawings (Ref: Plans for Construction of the 2009 Water Main Improvements Adjacent to CIAC Segment No. 2, Work Order No. 7174, Greely and Hansen, August 2009).

5.3. Tree Impacts

The project is located in a highly urbanized area of the City of Tampa. A field visit (**Section 3**) was conducted to consider the impacts to existing landscaping and trees and the proposed alignment was modified accordingly. Further refinement of the proposed subsurface utilities (RCB culvert and relocated utilities) is possible with a site survey and tree assessment.

Even with the field adjusted alignment some trees will need to be removed and a few may be significantly impacted. Landscaping costs have been considered in the construction cost estimates.

5.4. Water Quality Improvements

Improving stormwater quality in highly developed urban and residential areas is challenging. Using typical approaches (for example, stormwater ponds) for treatment are not economical as enough vacant land is not available. Alternatively, use of baffle boxes, screens and skimmers (for example **Figure 10**, Suntree Technologies, Inc. Grate Inlet Skimmer Box) can improve the water quality of stormwater discharges. Many of these systems are be used to retrofit existing systems or can be constructed with new features.

Baffle boxes would only be appropriate for lateral connections due to the dimensions of the proposed box culverts. Potential locations for baffle boxes include the existing storm laterals on Armenia Avenue and Howard Avenue, north of Gray Street. In addition, the existing and proposed curb and grate inlets along the project may be modified with inlet baskets (screens) (to remove some decaying vegetation from the downstream receiving water body (Hillsborough River). Potential locations for baffle boxes and inlet skimmers are shown on **Figure 9**.



Figure 9. Proposed/Potential Water Quality Improvements

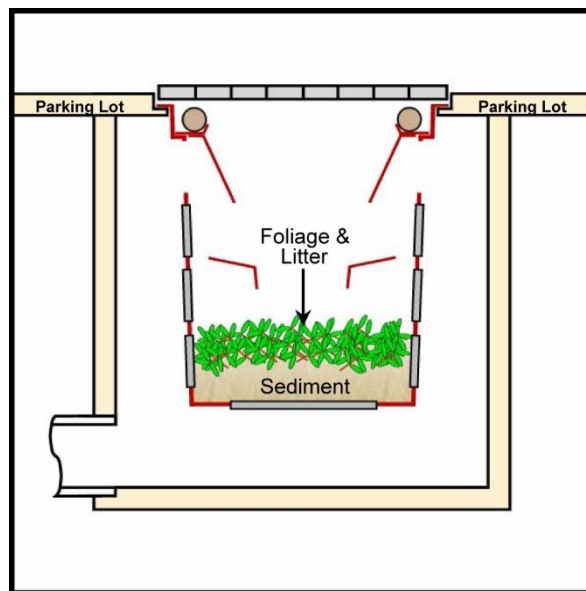


Figure 10. Grate Inlet Skimmer Box

6. Segment 1 – Cass Street and Rome Avenue

6.1. Transportation Impacts

The Transportation Impacts are mainly focused on Cass Street and the crossing of Rome Avenue at Cass Street. Detours should be planned based on traffic count and type information; no traffic analysis (counts or etc.) was performed for this study. Major detours shown below are based on the shortest available route and may not represent the best detour route. **Figure 11** shows a potential detour vehicles on Cass Street would take when the intersection of Willow Avenue is closed. Similarly, **Figure 12** shows a potential detour for the closing of Cass Street and Rome Avenue intersection. Additionally, minor detours (not shown), may reflect a contractor’s haul routes, staging areas, and construction methods. Public Involvement meetings would be advisable prior to and during construction.



Figure 11. Potential Detour for Willow Avenue Closure



Figure 12. Potential Detour for Rome Avenue Closure

6.2. Residential Impacts

Any conceivable route from the upstream terminus of the project to the downstream terminus at Cypress Street and Rome Avenue will impact residential access. Fortunately, the proposed routes do not impact any dead-ends or “no outlet” streets. Additionally, many affected residences may have alternative access through alleyways. Along Cass Street, three apartment complexes would be affected, while on Rome Avenue only one apartment complex would be affected (see **Figure 13** and **Figure 94**, respectively). It is important to note that the SWFWMD has issued [ERP 4333313.001](#) for The District at North Hyde Park (aka NoHo Ph 2), a multi-family residential building at Rome Avenue and Gray Street. This project is currently under construction. A review of the construction plans for this project indicates access to the complex’s parking garage will be via Gray Street. Although the proposed box culvert alignment was shifted in an effort to minimize access impacts, this multi-family residential access will likely be affected to some degree during construction of the proposed box culvert.

Public involvement prior to and during construction is necessary to minimize impacts and reduce uncertainty for the residences. A selected contractor, at a minimum: 1. should notice impacted residences; 2. Provide as much access as safely possible; 3. Plan for short duration, high intensity construction for impacts to more than four (4) residential complexes. Any route will affect residences while construction occurs in the adjacent right-of-way. However, construction requirements can be imposed, with public involvement, to reduce the severity of the impacts.

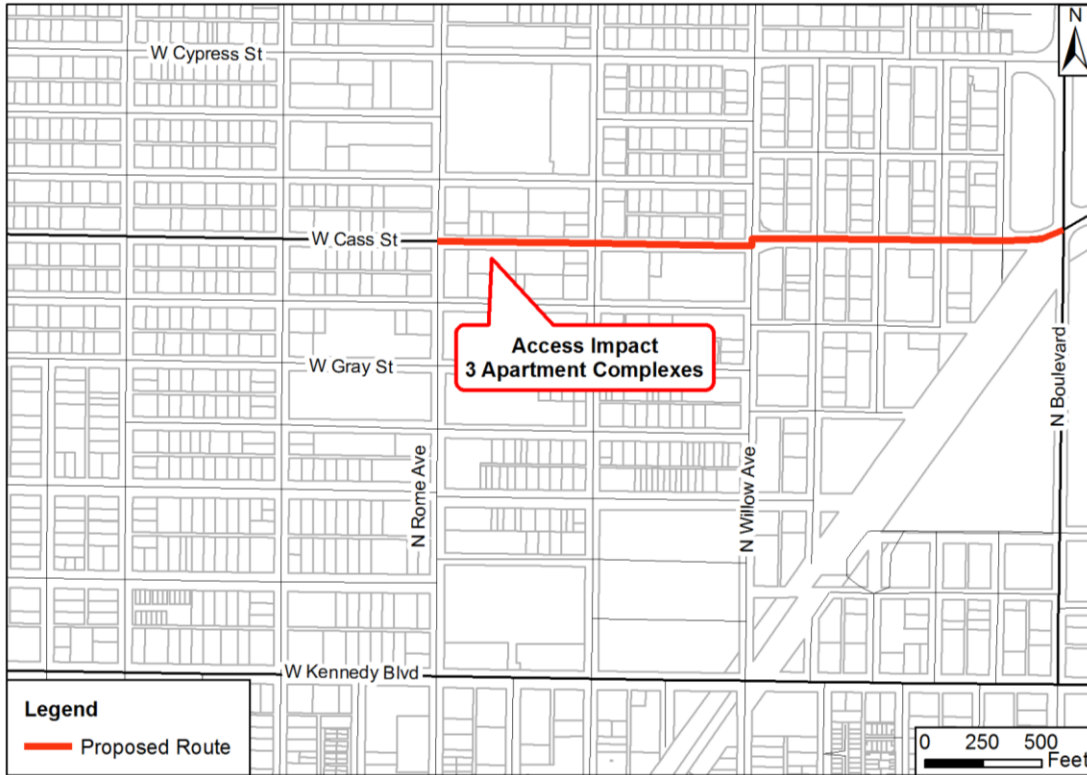


Figure 13. Impacts to Access near Cass Street and Rome Avenue



Figure 9. Impacts to Access near Rome Avenue

6.3. Typical Sections

The following typical sections were based on approximate construction dimensions. Appropriate horizontal and vertical separations between utilities was considered, however since no survey information was acquired, utility conflicts may exist.

East of Willow Avenue, the proposed alignment places the RCB culvert on the southern half of Cass Street in order to connect to the twin 9' by 7' RCB culvert recently constructed on N Boulevard. This would also allow the possibility of a single lane open during construction. The existing sanitary crosses Cass Street at several places along the proposed route, therefore, the construction of conflict structures (8" ductile iron pipe through the RCB) may be necessary, tying in to the existing VCP sanitary.

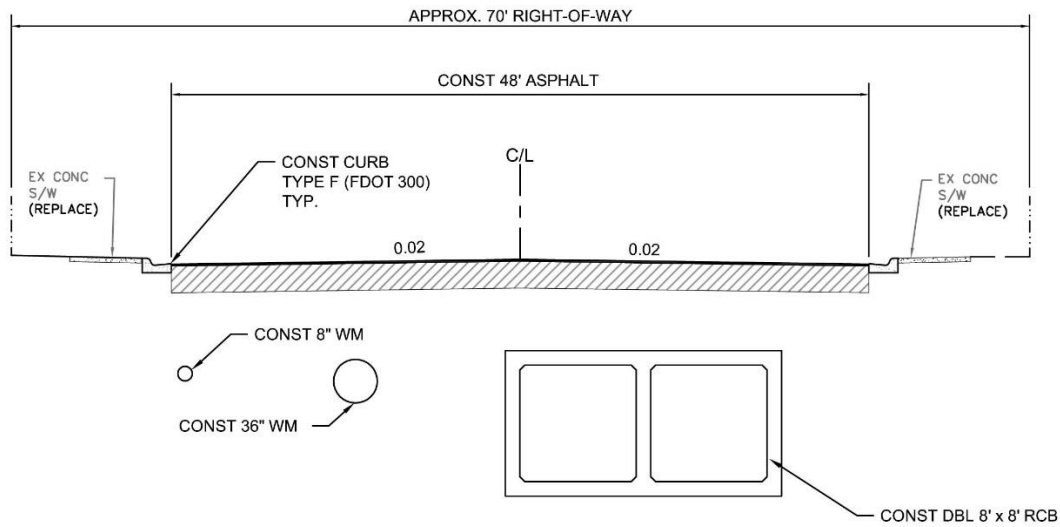


Figure 15. Cass Street East of Willow Avenue Typical Section (NTS)

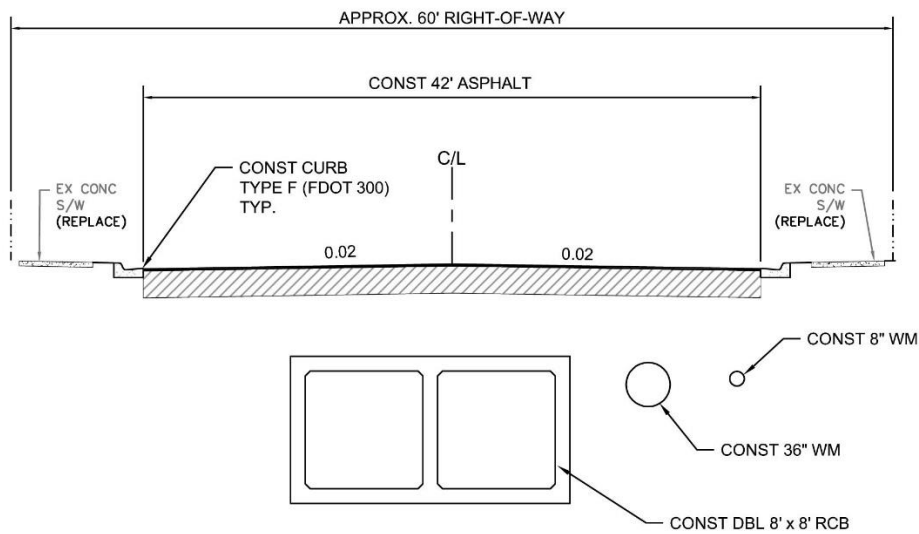


Figure 16. Cass Street West of Willow Avenue Typical Section (NTS)

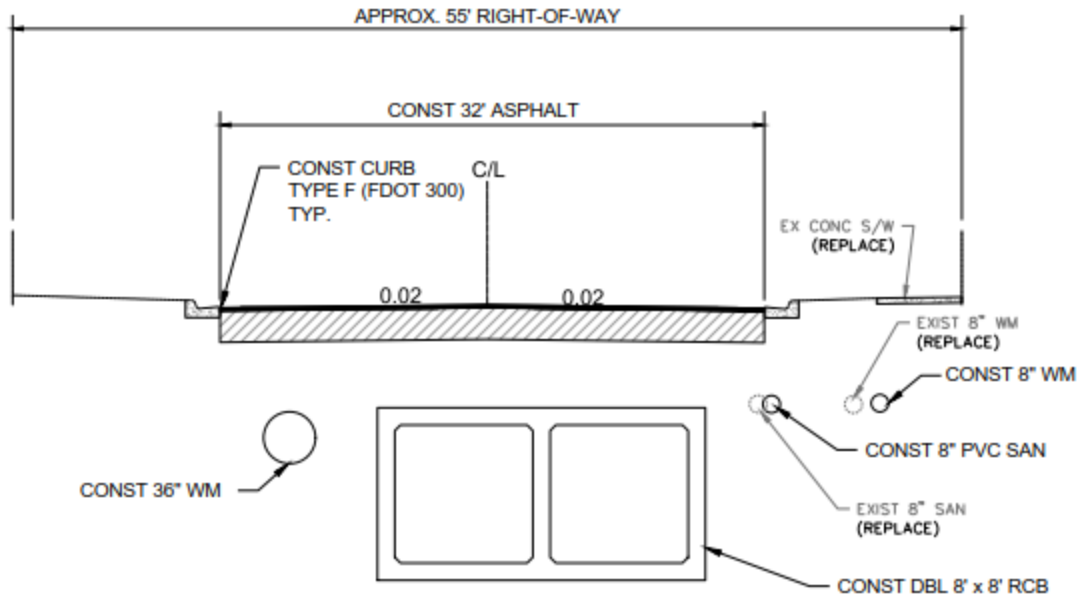


Figure 17. Rome Avenue north of Gray Street Typical Section (NTS)

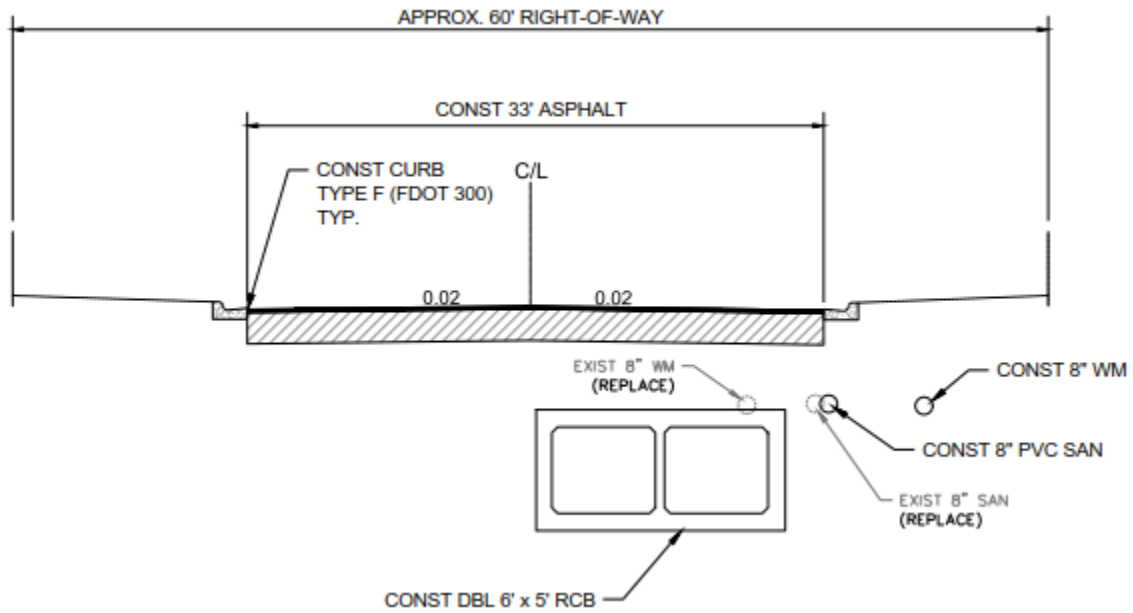


Figure 108. Rome Avenue south of Gray Street Typical Section (NTS)

Additional details are provided in the Conceptual Plans (see **Appendix B**).

7. Segment 2 – Gray Street

7.1. Transportation Impacts

The Transportation Impacts for Segment 2 are focused at Howard Avenue and Armenia Avenue. Detours should be planned based on traffic count and type information; no traffic analysis (counts or etc.) was performed for this study. Major detours shown below are based on the shortest available route and may not represent the best detour route. **Figure 119** shows a potential detour vehicles on Gray Street would take when the intersection of Howard Avenue or Armenia Avenue is closed. Additionally, minor detours (not shown), may reflect a contractor’s haul routes, staging areas, and construction methods. Public Involvement meetings would be advisable prior to and during construction.



Figure 119. Detour for Howard Avenue and Armenia Avenue Closure

7.2. Residential Impacts

Any conceivable route along Gray Street will impact residential access. The proposed route does not impact any dead-ends or “no outlet” streets. Additionally, many affected residences may have alternative access through alleyways. Along Gray Street, from Tampania Avenue to Rome Avenue, 35 residences would be impacted (see **Figure 20**).

As with Segment 1, public involvement prior and during construction is necessary to minimize impacts and reduce uncertainty for the residences.

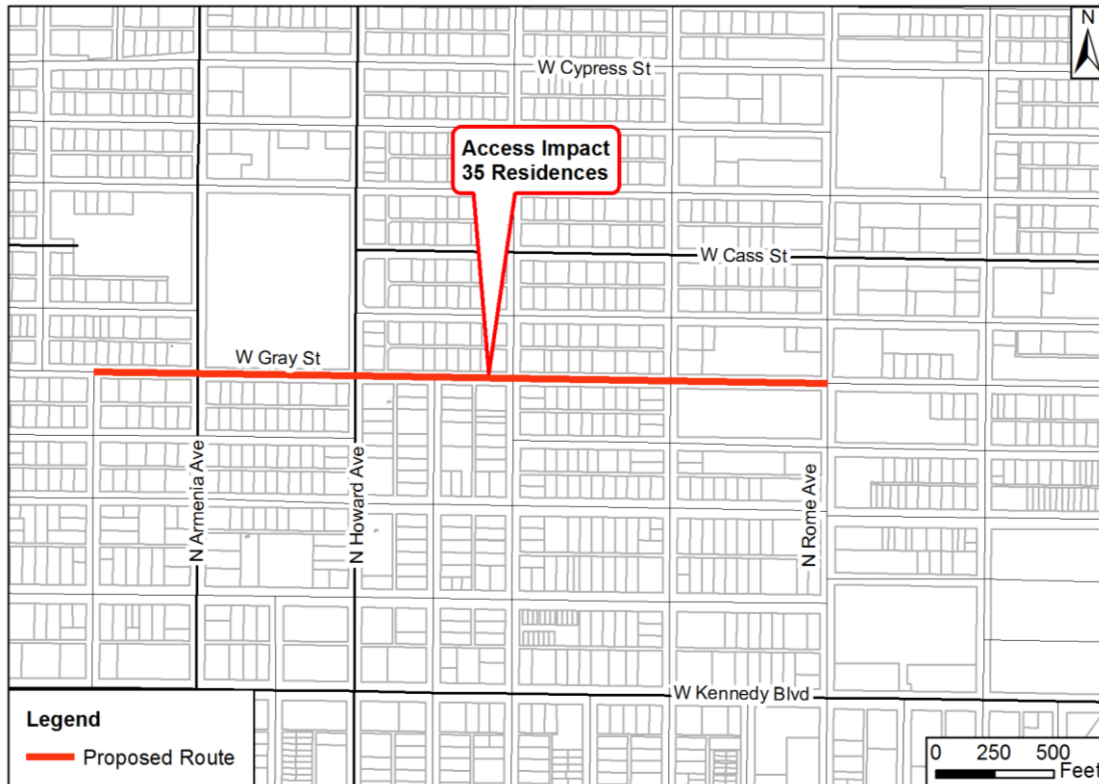


Figure 20. Impacts to Access near Gray Street

7.3. Typical Sections

The following typical sections were based on approximate construction dimensions. Appropriate horizontal and vertical separations between utilities was considered, however since no survey information was acquired, utility conflicts may exist.

The 12' by 5' box culvert typical section along Gray Street, from Tampania Avenue to Howard Avenue, is shown on **Figure 21**. **Figure 22** shows the typical section for the 12' by 7' RCB culvert west of Howard Avenue to Rome Avenue along Gray Street. The proposed alignment for Segment 2 places the RCB culvert on the southern half of Gray Street because of an existing 24" VCP sanitary line in the northern half. In order to connect sanitary service laterals, two parallel sanitary pipes would run along both sides of the box culvert.

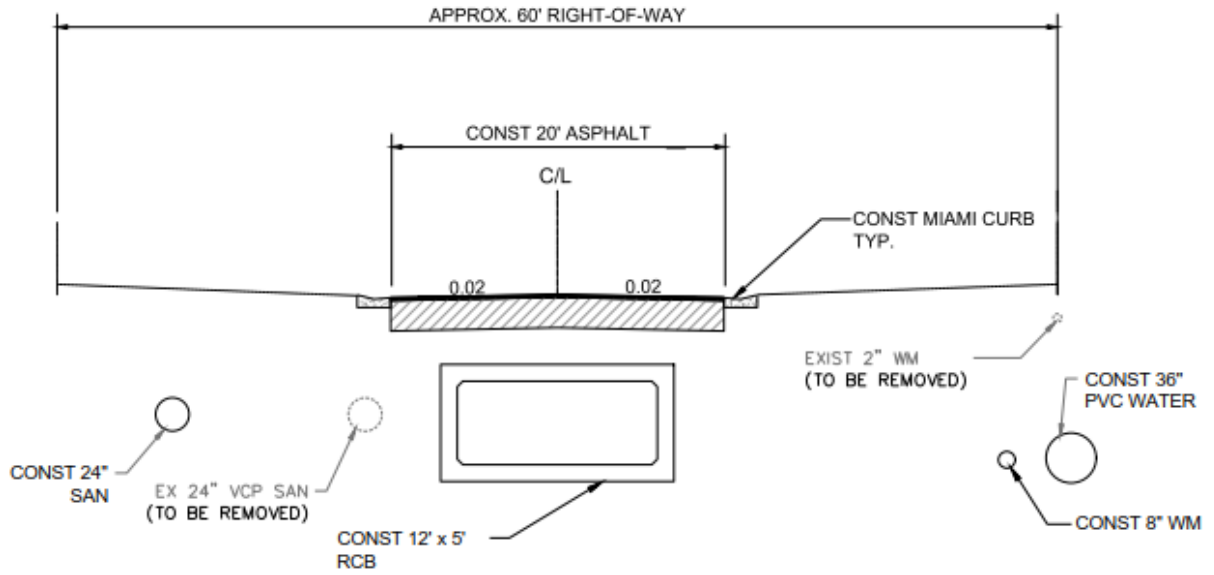


Figure 21. Gray Street west of Howard Avenue Typical Section

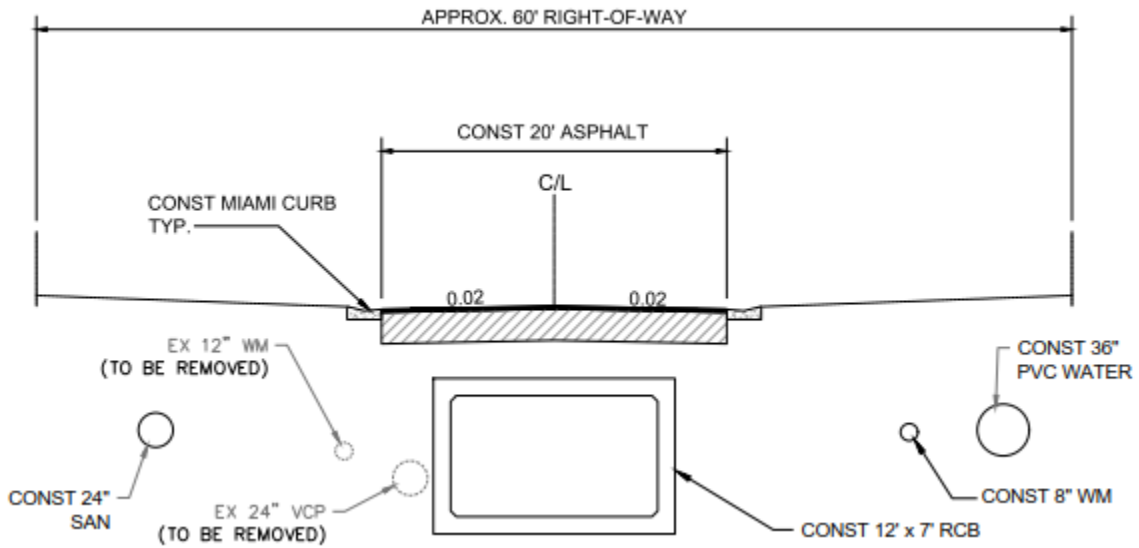


Figure 22. Gray Street east of Howard Avenue Typical Section

8. Benefit – Cost Analysis

The Benefit-Cost Ratio (BCR) was calculated using the procedure distributed by the SWFWMD for assessing Watershed Management Plan Best Management Practices (BMPs) Alternatives, *Approach to Assessing Level-of-Service, Surface Water Resources, and Best Management Practice Alternatives for Watersheds in Hernando County, Florida* (Jones Edmunds & Associates, Inc., 2013). The SWFWMD BCR Procedure estimates flooding damages using multiple events (for example, 2.33-Year to 100-Year) for structures (including contents) and roadways (including delays). The SWFWMD BCR Procedure does not include some necessary information (for example, depth-damage curves for nonresidential structures). Interflow used the Federal Emergency Management Agency (FEMA) Benefit Cost Analysis (BCA) Tool for additional information. The SWFWMD BCR Procedure estimates road damages caused by flooding including cost of road repair and delay cost for closing roads for the duration of flooding. A transportation study was not conducted to determine potential detour times. Interflow estimated detour times for vehicles traveling an alternate route to be 5 minutes for roads classified as Local and Neighborhood Collector, and a minimum of 20 minutes for Principal Arterial Roads.

The SWFWMD BCR Procedure uses flooding depths from deterministic hydraulic models (for example, ICPR, SWMM, etc.). The Study Area has an approved ERP for the proposed features (see [ERP 43041855.000](#), Spanish Town Creek Stormwater Improvements and Cypress Street Outfall Upgrade). The CITY provided flooding results using the approved ERP model (XPSWMM 1-D/2-D hydraulic model). The approved model was revised to correct the rainfall distribution and reflect the existing conditions (as of 2015). The proposed conditions are based on the approved features (Segments 1 and 2). The proposed box culvert dimensions for this BCR analysis were the same as (or hydraulically equivalent to) those on the conceptual permit as shown on

Figure 8.

The CITY provided the Mean Annual (2.33-year/24-hour), 5-year/24-hour, 10-year/24-hour, 25-year/24-hour, 50-year/24-hour, and 100-year/24-hour storm events for both the existing and proposed conditions. The output file from each storm event and floodplain were analyzed by Interflow. Inundation duration was not always available in the provided results (1-D/2-D hybrid model). The duration of inundation was estimated for areas without available results.

Following FEMA's guidelines, the probable flood damages in any given year were calculated by multiplying the estimated flood damages associated with each storm event by the likelihood of occurrence in any given year, and summing the probable annual damages over the range of events, for both existing and proposed conditions. The present value of the flood damages was estimated by assuming a 50-year project life cycle, and a discount rate of 7%. Avoided damages are the difference between the present values of existing and proposed conditions flood damages.

8.1. Opinion of Probable Construction Cost

The opinion of probable construction cost (**Appendix C**) was based on the *Current 12 Month Moving Statewide Averages* (FDOT, 2015). The cost includes, but is not limited to:

1. Proposed reinforced concrete box (RCB) culverts
2. Asphaltic pavement (complete replacement)
3. Additional storm sewer inlets and pipes to connect and potentially improve local drainage
4. Additional sanitary sewer (to allow for service laterals on both sides of the box culverts)
5. Relocation of water utilities
6. Proposed 36" water transmission main, as described in **Section 5.2.2**

8.2. Results

Appendix D contains the Benefit-Cost Ratio calculations for this project. The benefits associated with the proposed stormwater conveyance improvements are in the form of avoided damages, which is the existing conditions flood damages minus the proposed conditions flood damages. The building (structures) avoided damages was estimated at approximately \$5.6 million while the avoided damages for roads was estimated to be almost \$34 million, for a total project benefit of approximately \$39.6 million. The benefit associated with road flooding improvement is much higher than that associated with the structures because of the flooding of Kennedy Boulevard, a principal arterial road with an estimated 20,000 vehicles per day, at a level of service (LOS) classification of E. In the proposed conditions, most of the extent of flooding in Kennedy Boulevard, as well as other roads and structures, has been improved to a LOS level of D or better. Refer to **Figure 12** and **Figure 13** for the Existing Conditions and Proposed Conditions LOS maps, respectively.

The Engineer's Opinion of Probable Construction Cost for the box culverts, including required replacement or relocation of sanitary and water based on the conceptual design is approximately \$25.5 million. This does not include the cost for the 36" potable water transmission main. The Opinion of Probable Construction Cost table on **Appendix D** shows the individual cost of construction for each segment. As expected, Cass Street from N Boulevard to Rome Avenue with 2,725 LF length of 8' by 8' twin box culverts was the largest portion of cost for the project with nearly \$10.2 million. The cost for the Rome Avenue sections totaled over \$6.2 million and the Gray Street sections totaled about \$9.0 million.

The benefit-cost ratio was calculated as the benefits divided by the total construction cost of the project. A ratio greater than 1 signifies a benefit greater than the cost of the project. The proposed box culverts should provide approximately \$39.6 million dollars of benefit for a probable construction cost of approximately \$25.5 million dollars, for a BCR of 1.55. The majority of the benefit is associated with improvements to roadway flood protection LOS, which is reasonable given the nature of the existing roads, being lower than adjacent properties and carrying high volumes of traffic.

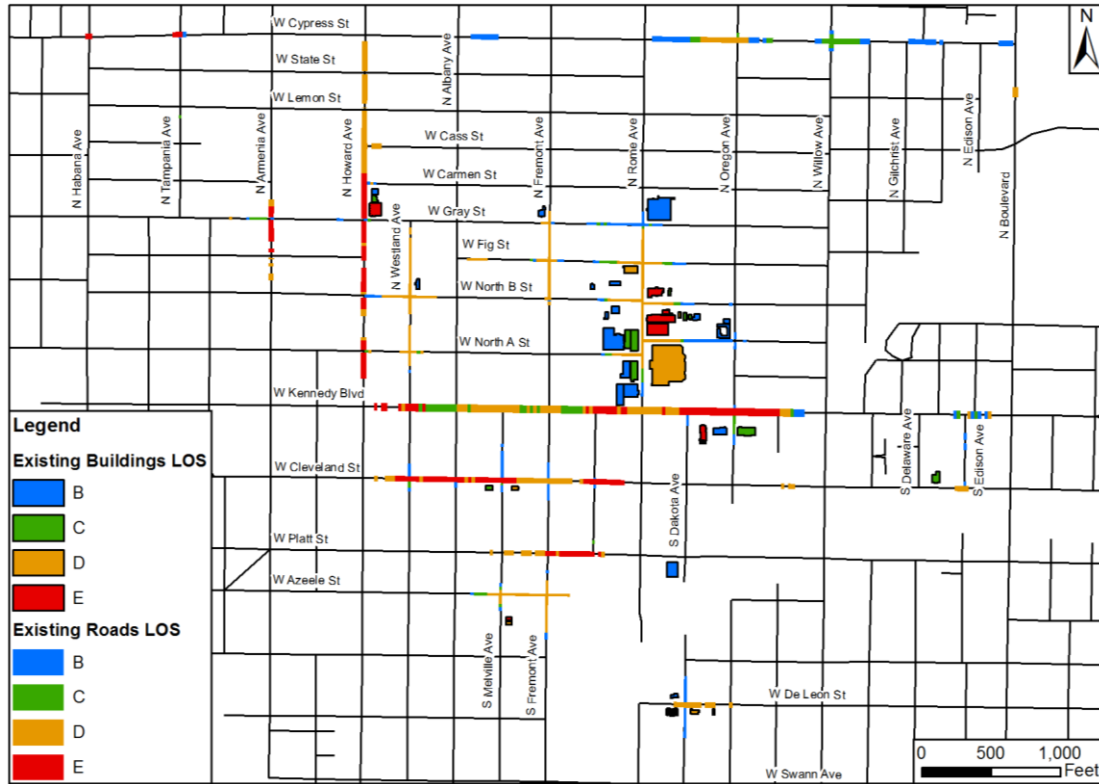


Figure 12. Existing Conditions LOS for Building Structures and Roads

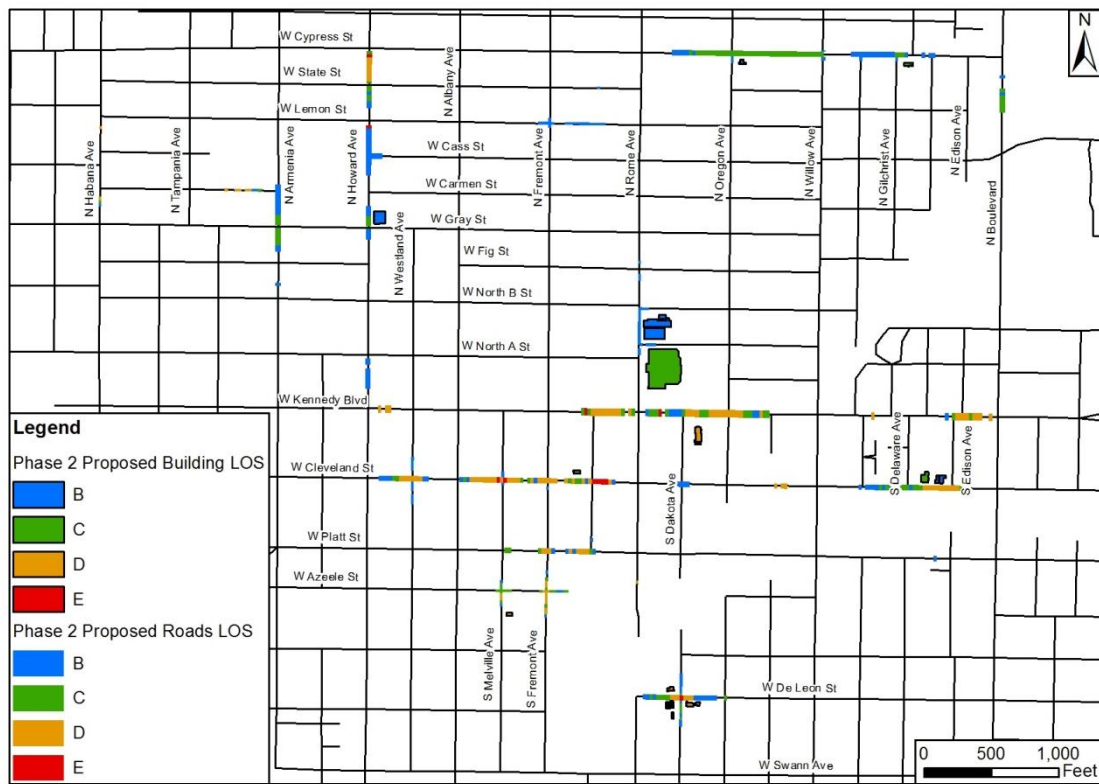


Figure 13. Phase 2 Proposed Conditions LOS for Building Structures and Roads

Based on the information available to the authors at the time of this report, the construction of the proposed stormwater conveyance improvements appears to be feasible and cost effective. Conceptual plans were developed based on available information (**Appendix B**). Existing information on the conceptual plans was compiled from available geographic information system (GIS) data, LiDAR-based topography, and as-built construction plans from the City's files. A comprehensive field survey will provide more accurate and complete description of existing features and facilities. However, it is also important to note that small differences in topography, right-of-way limits, property lines, horizontal and vertical locations of utilities, disposition of trees, etc. will not affect the overall feasibility of this project.

Additionally, hydrologic and hydraulic modeling completed by others was used to determine the proposed box culvert dimensions. That modeling effort should be refined and augmented as necessary to account for the connections and sizing of local drainage features along the route, as shown on the Conceptual Plans, with associated adjustments to the primary conveyance features if deemed necessary.

8.3. Recommendations

Interflow, after reviewing the available information, visiting the project area several times, and meeting with various stakeholders, recommends the City do the following:

1. Coordinate with regulatory agencies,
2. Complete a topographic and route survey,
3. Complete a formal tree assessment of all trees in or immediately adjacent to the right-of-way,
4. Complete a geotechnical investigation at regular intervals to assess soils for stability and unsuitable materials,
5. Update and refine the hydrologic/hydraulic analysis for proposed box culvert and local drainage,
6. Create new base drawings and proceed with formal design, and
7. Conduct extensive public outreach, including neighborhood meetings.

9. References

Federal Emergency Management Agency (FEMA). (2015, February 24). Benefit-Cost Analysis Tool version 5.1. Washington, D.C.

Florida Department of Transportation (FDOT). (2015). *12 Month Moving Statewide Averages*. FDOT.

Fox, G. (2015, August 9). Flooding devastates handcrafted furniture shop Built. *The Tampa Tribune*.

Jones Edmunds & Associates, Inc. (2013). *Approach to Assessing Level-of-Service, Surface Water Resources, and Best Management Practice Alternatives for Watersheds in Hernando County, Florida*. Brooksville, Florida: Southwest Florida Water Management District (SWFWMD).

Spanish Town Creek Stormwater Improvements and Cypress Street (ERP 41855). (2015). Tampa, Florida: SWFWMD.

A. Field Visit Photographs



Rome Avenue, looking N



Intersection of Rome and Gray, looking NE



Intersection of N Boulevard and Cass Street (downstream portion of project), looking SW



Construction along N Boulevard of twin 9' x 7' box culvert, looking N



Gray Street at Westland Avenue, looking W



Gray Street at Albany Avenue, looking SW

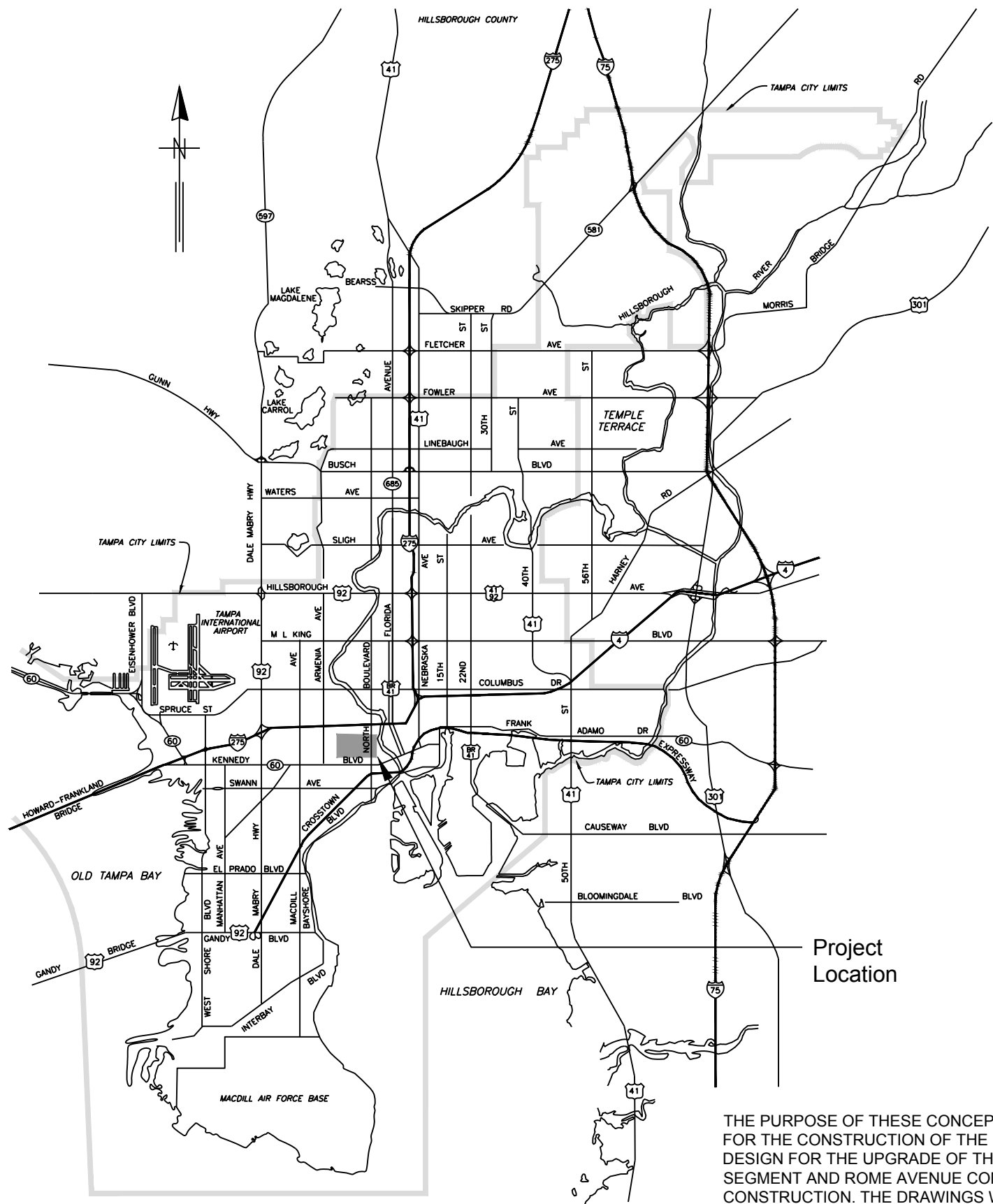
B. Conceptual Plans

By Interflow Engineering, L.L.C.

CITY of TAMPA



Department of Transportation and
Stormwater Services
Stormwater Engineering Division
**Cypress Street Outfall Regional Stormwater
Improvements**



VICINITY MAP

THE PURPOSE OF THESE CONCEPTUAL DRAWINGS WAS TO ATTAIN FEASIBILITY FOR THE CONSTRUCTION OF THE BOX CULVERTS. THEY DO NOT INCLUDE THE DESIGN FOR THE UPGRADE OF THE LOCAL DRAINAGE AND THE GREEN SPINE SEGMENT AND ROME AVENUE COMPLETE STREET WITHIN THE LIMIT OF CONSTRUCTION. THE DRAWINGS WERE NOT PREPARED BASED ON TOPOGRAPHIC SURVEY, AND THE EXISTING UTILITIES WERE SHOWN BASED ON THE BEST INFORMATION AVAILABLE.

APPENDIX B - CONCEPTUAL DRAWINGS

No.	DATE	REVISIONS
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DES: BL
DRN: BL
CKD: JL
DATE: 5/8/17

LEGEND

	EXISTING	PROPOSED
Buried Telephone Cable	-- -- -- bt -- --	
Buried Fiber Optic Cable	----- fo	
Gas Main	-- 4" gas -- 4" ge	
Water Main	-- -- 2" wm -- --	----- 2" WM
Reclaimed Water	-- -- 6" rcwm -- 6" rc	----- 6" RCWM
Sanitary Pipe	=====	=====
Storm/Sanitary Manhole		
Storm Pipe	-----	-----
Storm Catch Basin/ Curb inlet		
Storm Baffle Box		
Storm Junction Box		
Storm Structure I.D.		
Sanitary structure I.D.		

TABLE OF CONTENTS

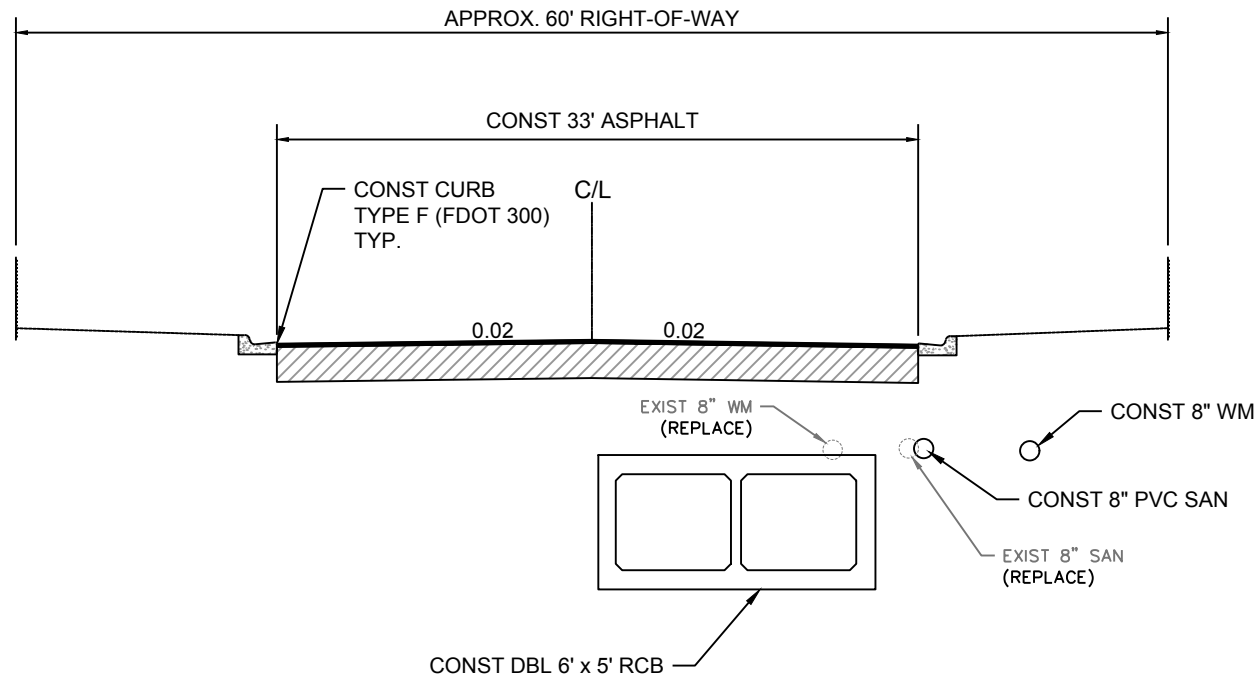
SHEET	TITLE
1	COVER SHEET
2	GENERAL NOTES
3-4	TYPICAL SECTIONS
5	KEY SHEET
6-17	PLAN & PROFILE SHEETS

GENERAL NOTES

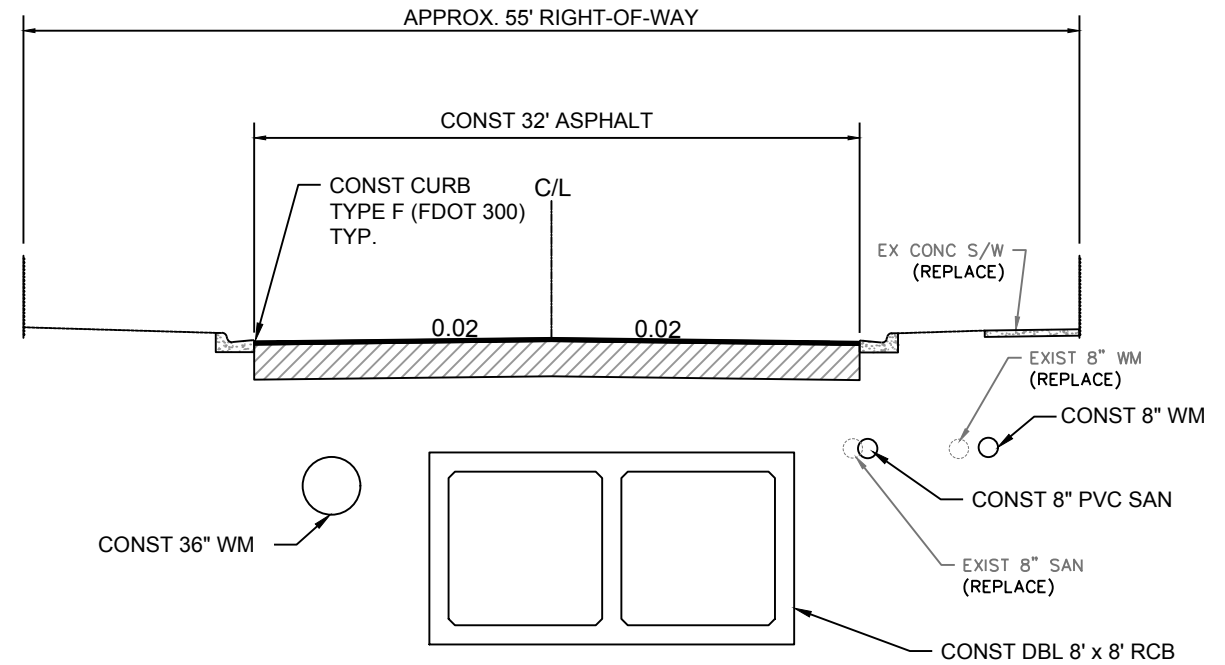
- Elevations based on National American Vertical Datum of 1988 (NAVD-1988). Topographic information derived from Digital Elevation Model (DEM) based on LiDAR from the Florida Division of Emergency Management (FDEM). All elevations should be considered approximate.
- No site specific survey was conducted to prepare these plans. All locations, depths, sizes, and materials should be considered approximate.
- No engineering calculations were performed for proposed local drainage features (I.E. Minor system storm laterals). Appropriate size and type of all storm inlets and pipe connections should be verified during formal design.
- All feature locations shown are approximate.
- Locations, elevations, and dimensions of the existing utilities, structures and other features are shown according to available GIS/Atlas information at the time of the preparation of these plans and do not purport to be absolutely correct.
- No engineering calculations were performed for adjustment of existing or proposed utilities (stormwater, water, reclaimed water, sanitary, gas, etc). Confirmation of appropriate size and type of all utilities should be performed prior to construction.

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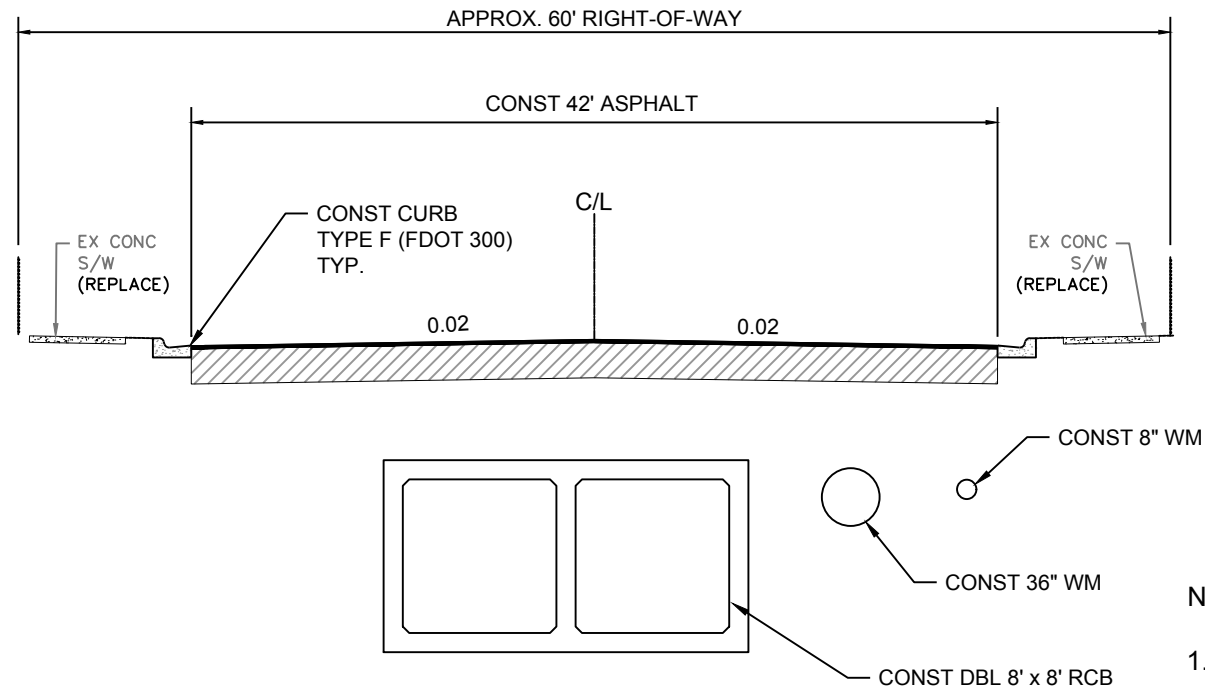
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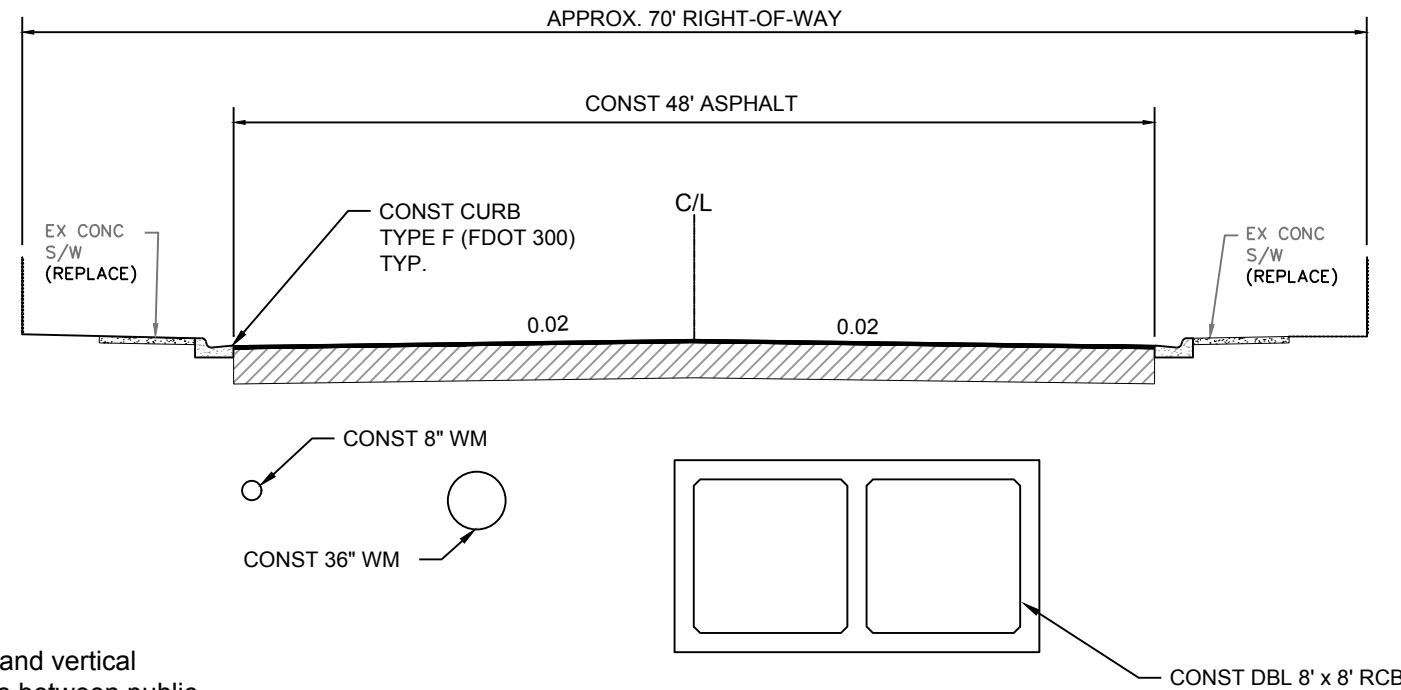
ROME AVE - SOUTH OF GRAY ST
N.T.S.



ROME AVE - NORTH OF GRAY ST
N.T.S.



CASS ST - WEST OF WILLOW AV
N.T.S.



CASS ST - EAST OF WILLOW AV
N.T.S.

NOTES:

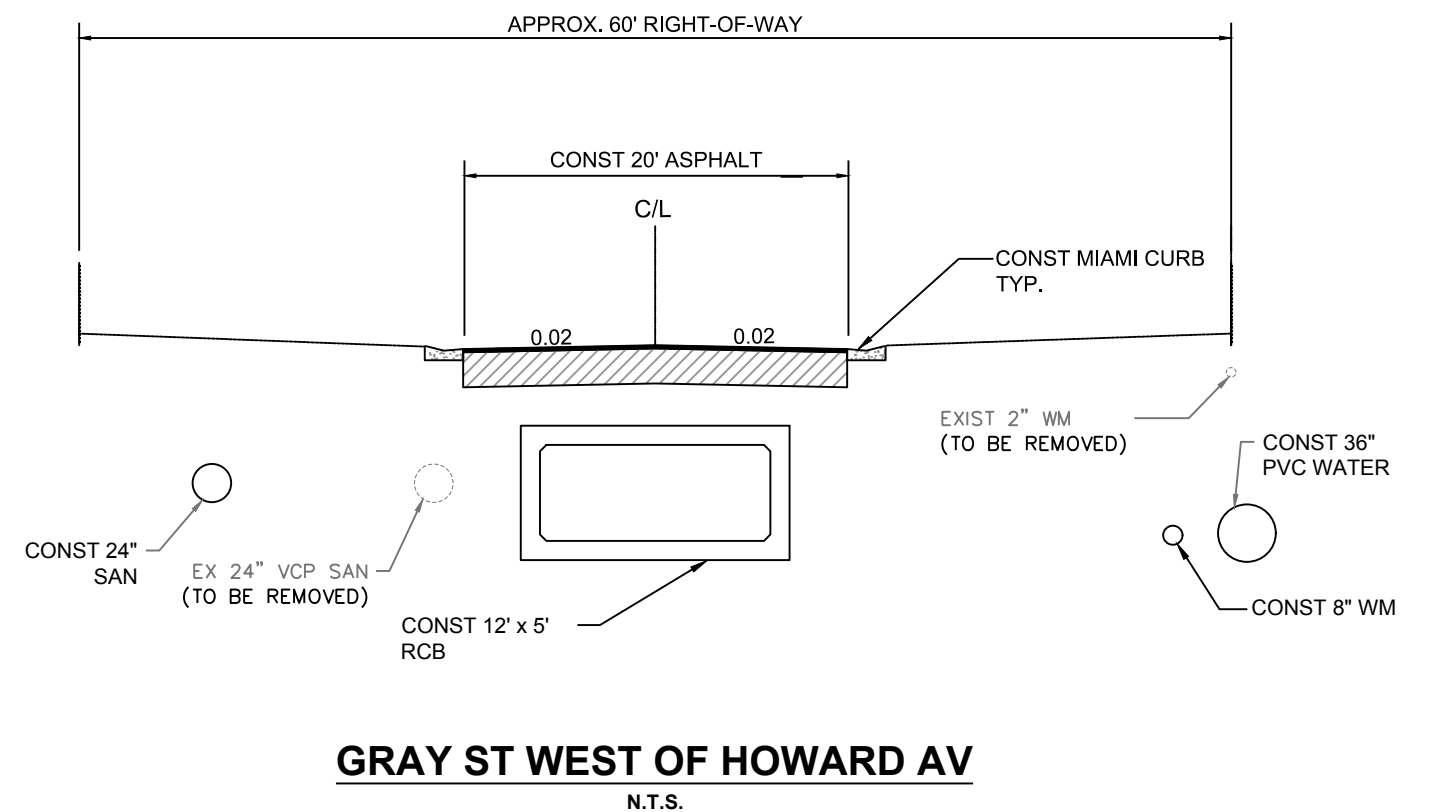
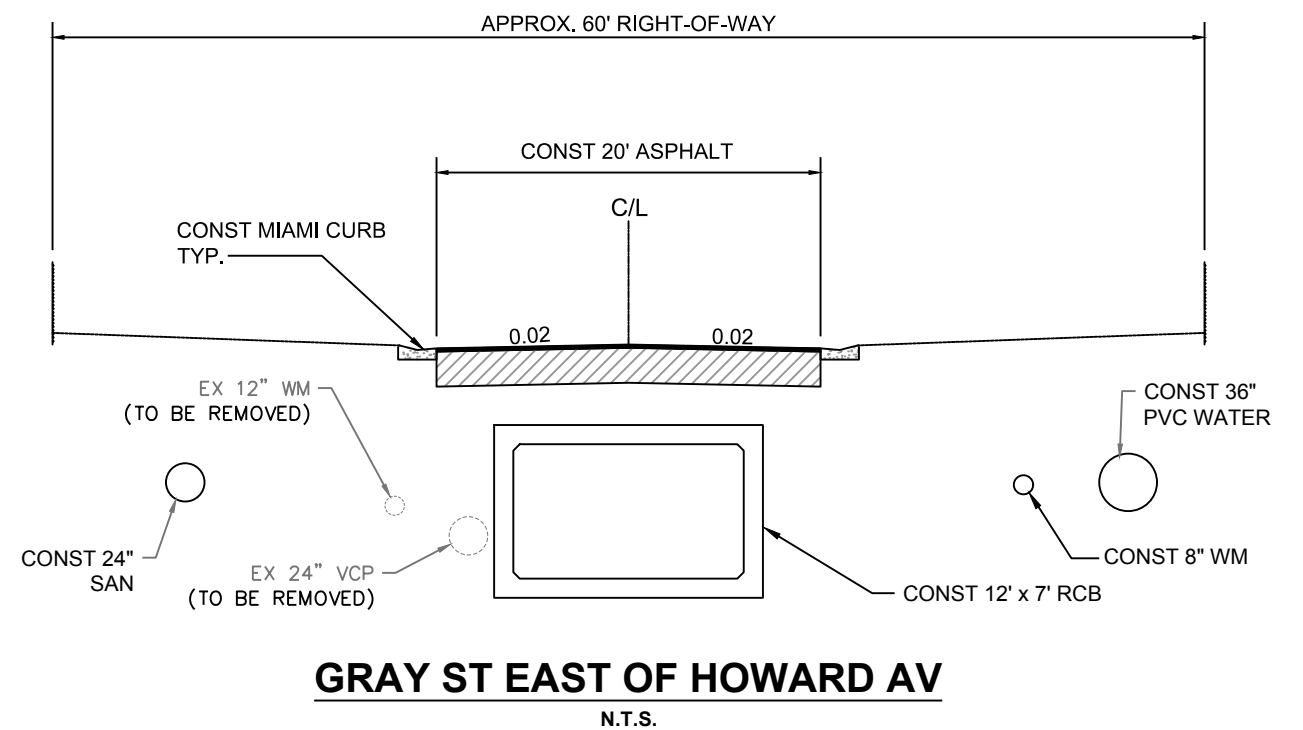
1. Horizontal and vertical separations between public water system mains and stormwater sewers, sanitary sewers, and reclaimed water mains, must comply with 62-555.314 FAC.

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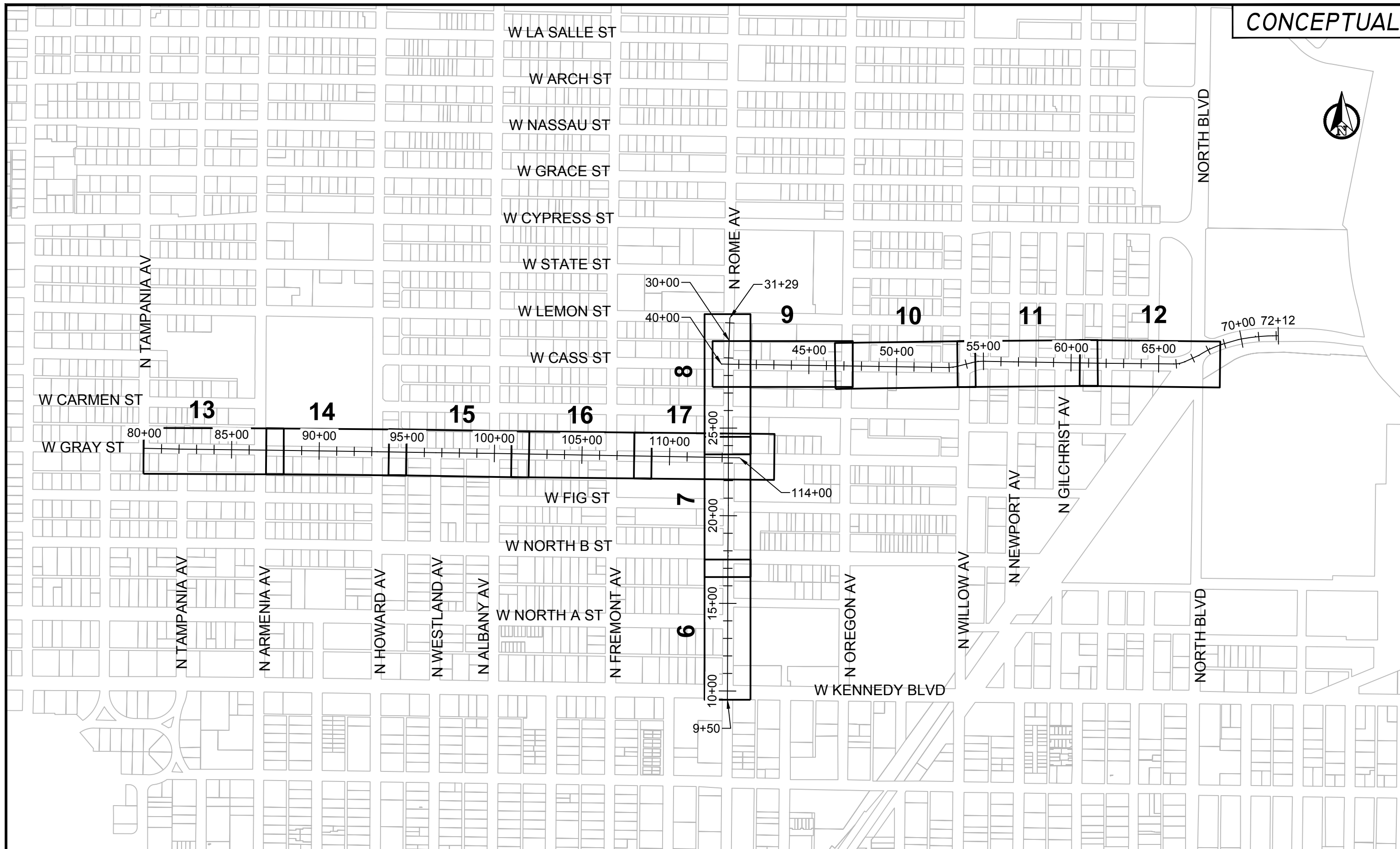
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NOTES:

- Horizontal and vertical separations between public water system mains and stormwater sewers, sanitary sewers, and reclaimed water mains, must comply with 62-555.314 FAC.



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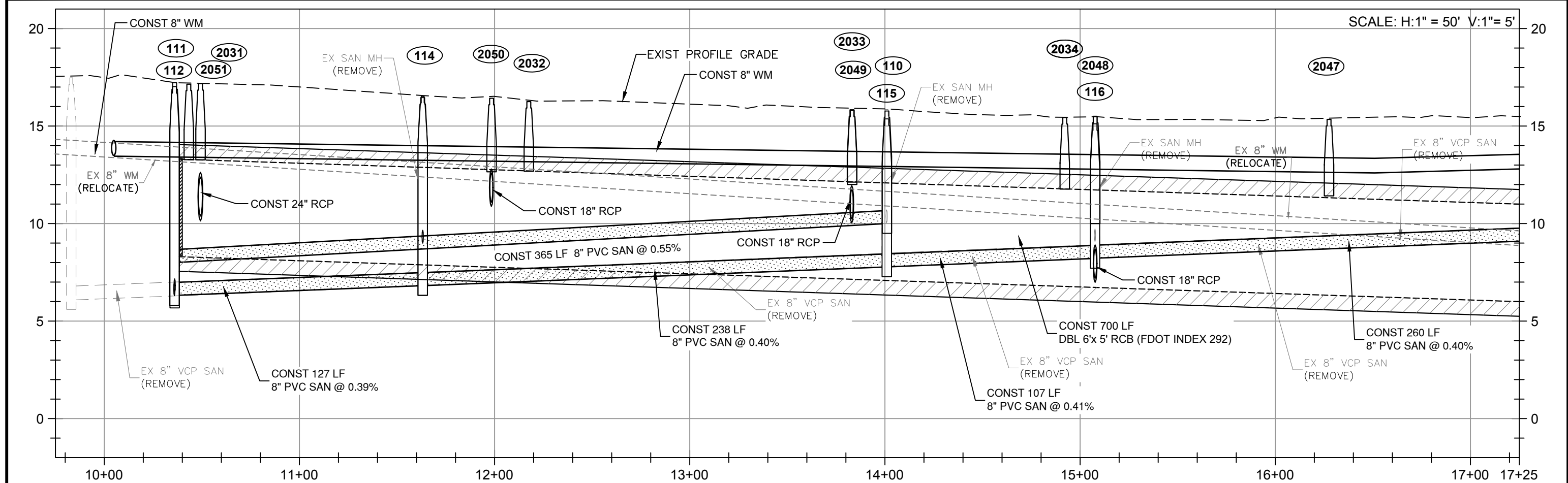
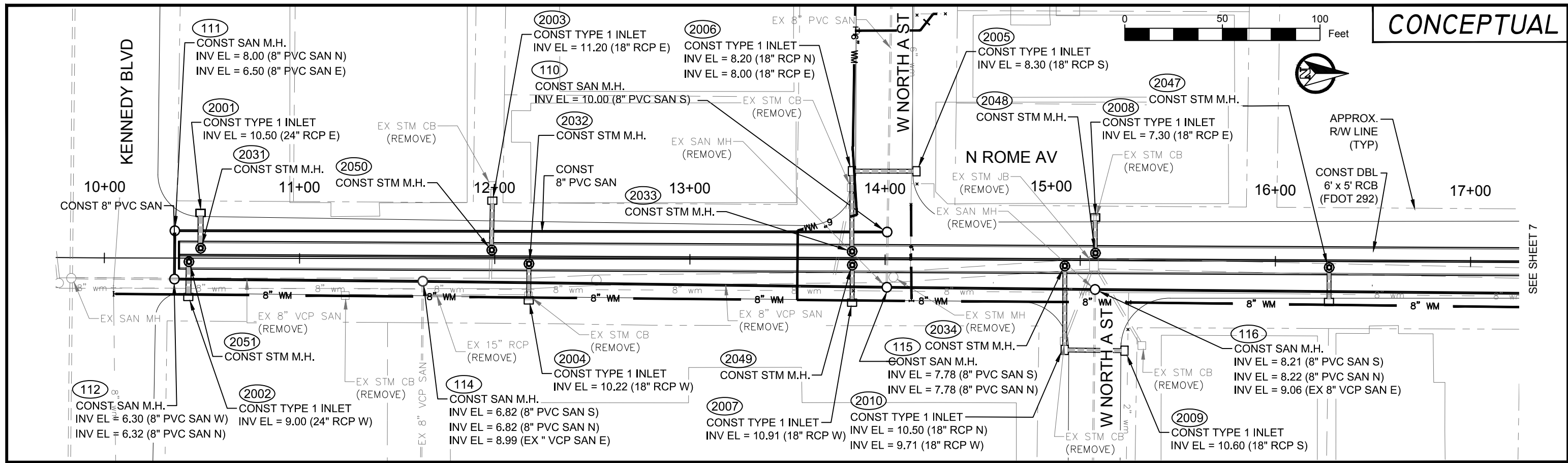
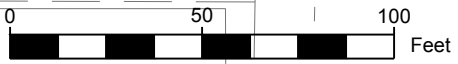

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KEY SHEET



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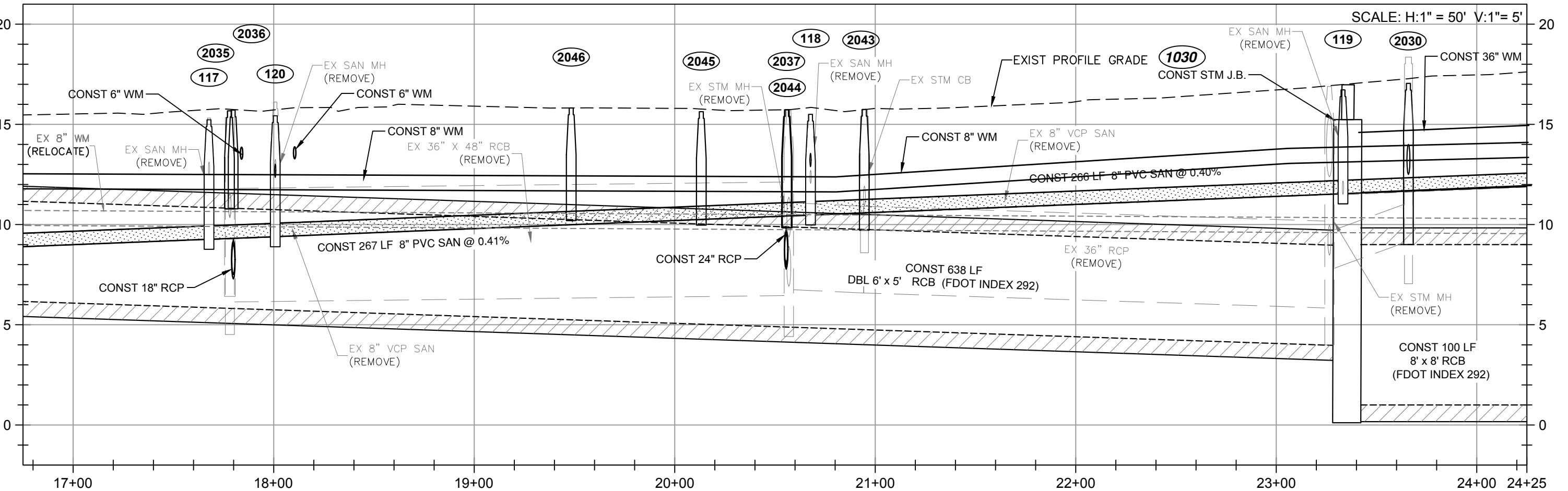
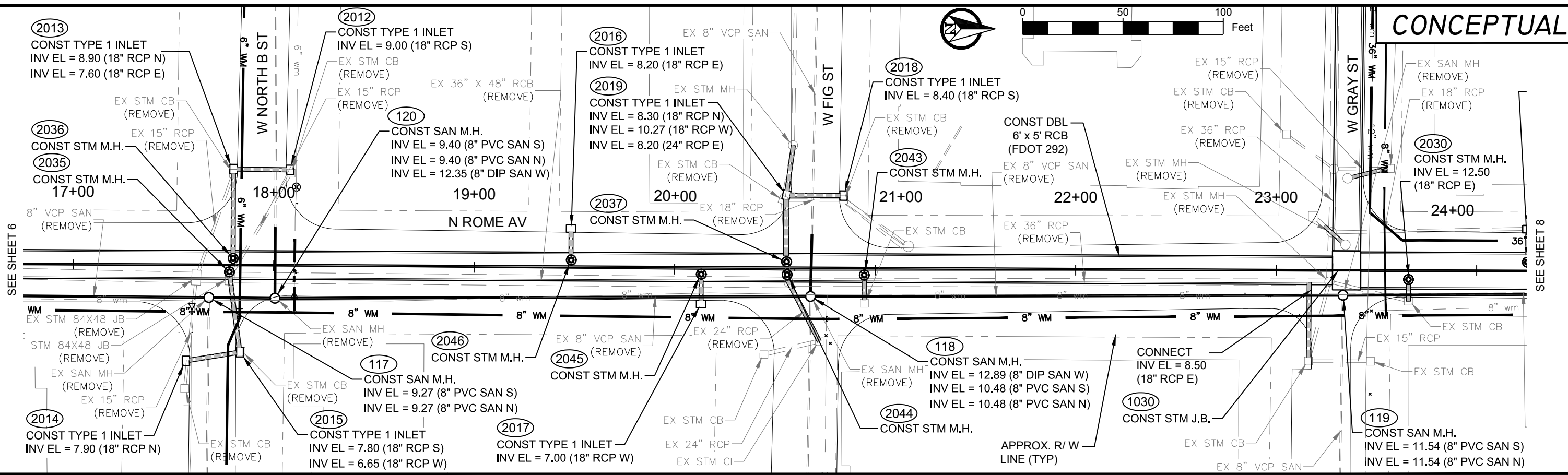
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PLAN & PROFILE - ROME AV



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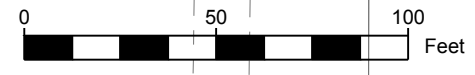
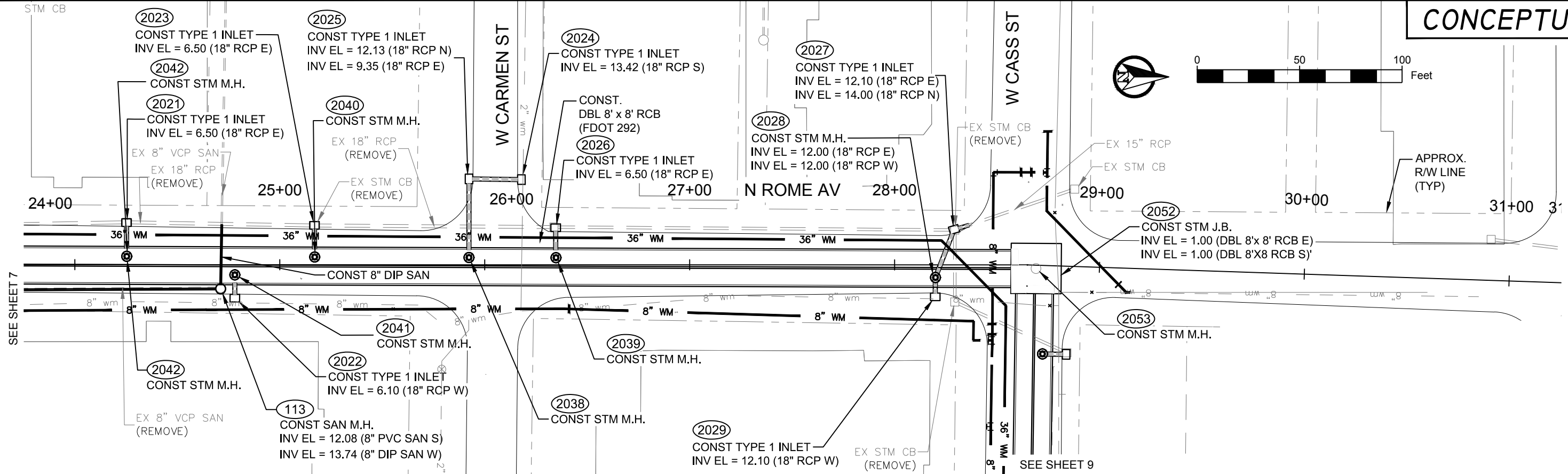
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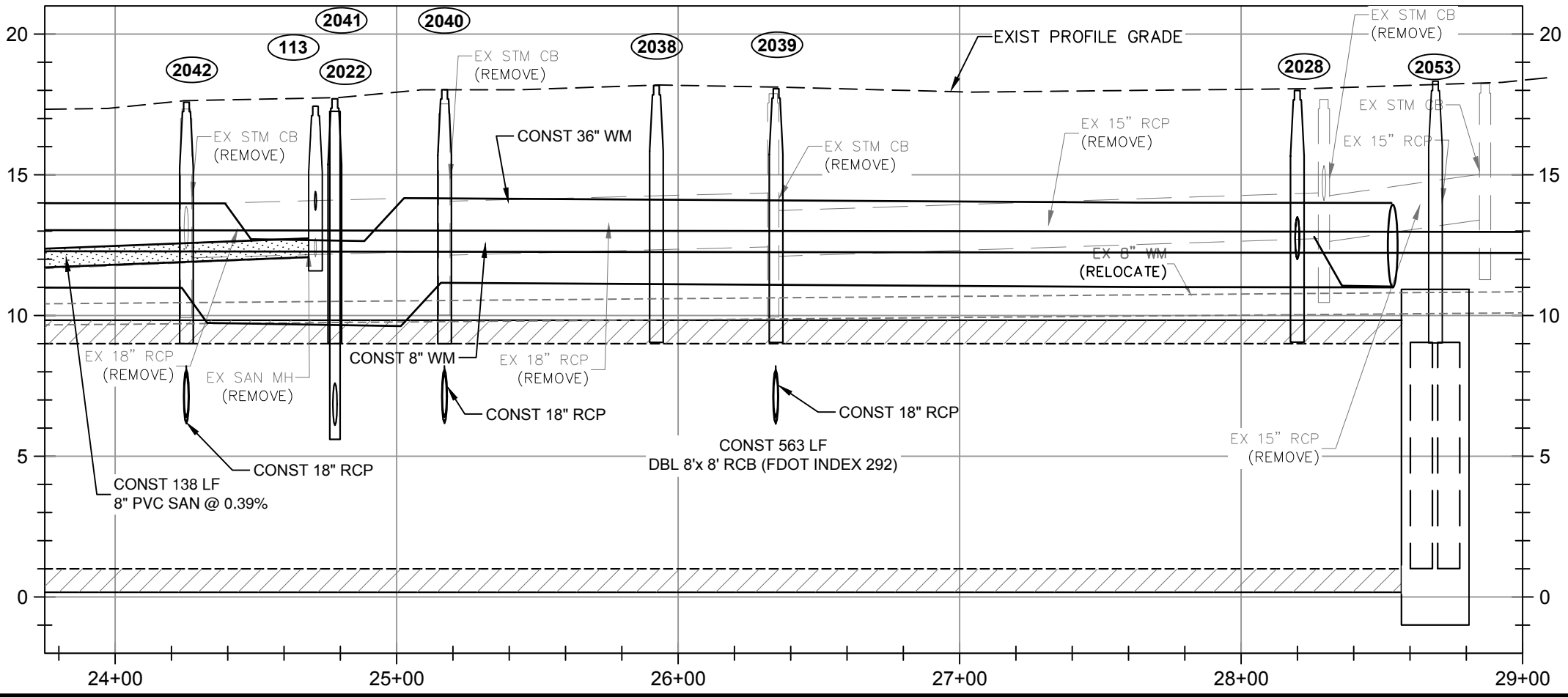
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PLAN & PROFILE - ROME AV

CONCEPTUAL



SCALE: H:1" = 50' V:1"= 5'



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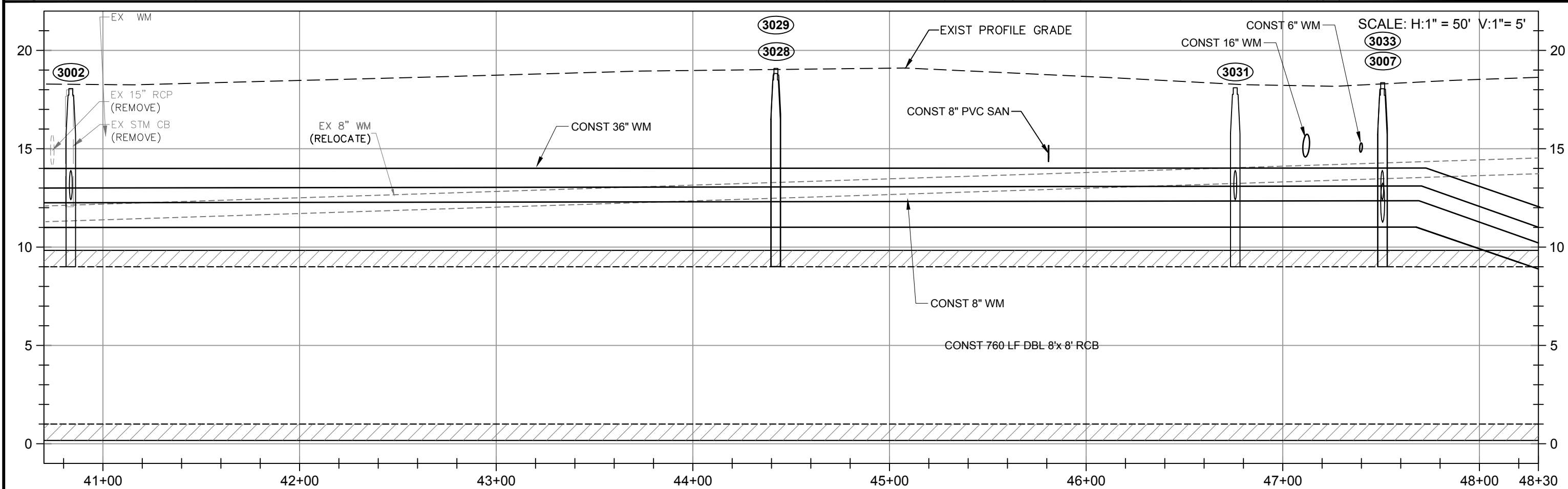
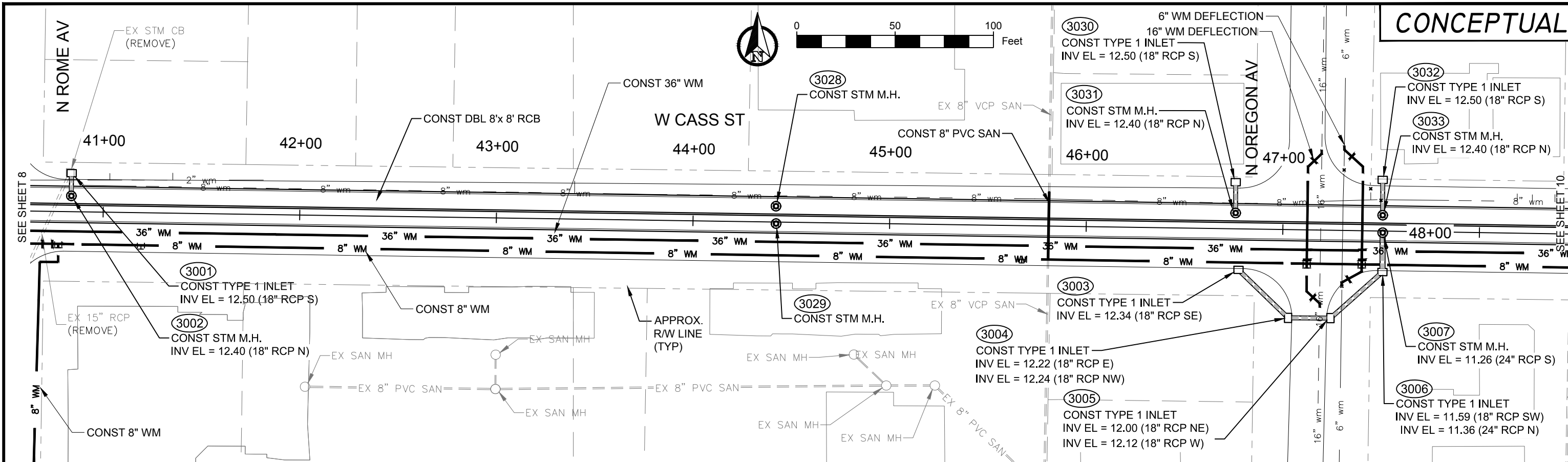
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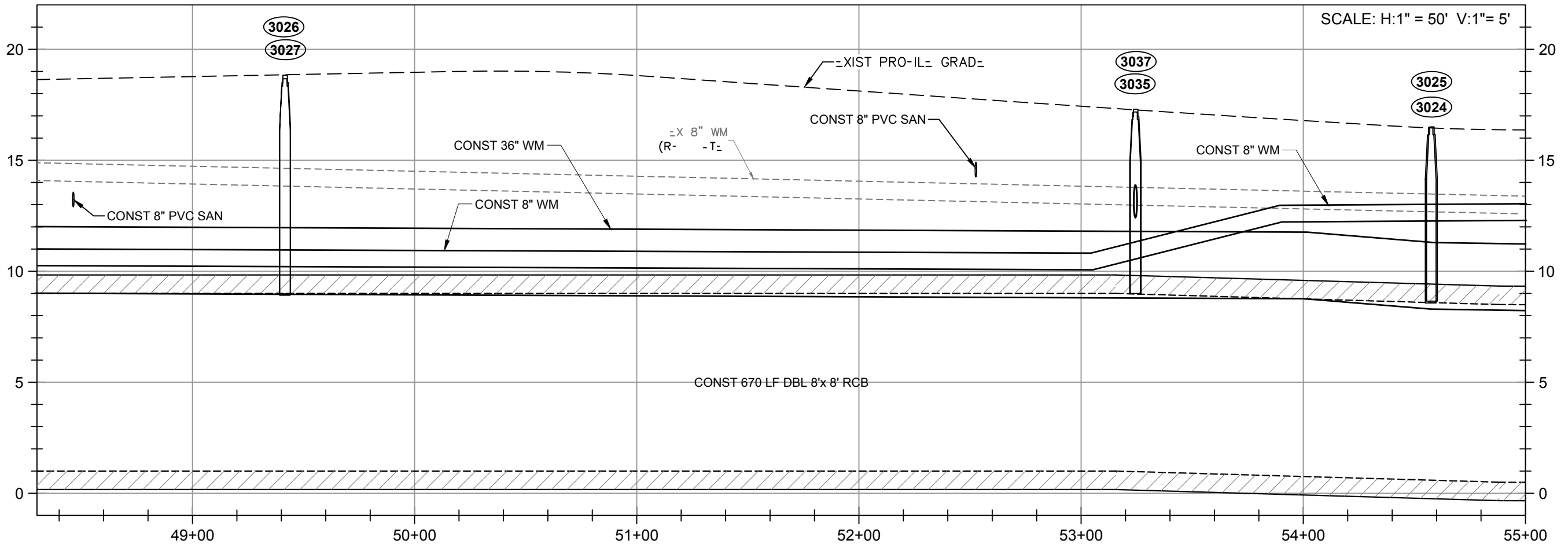
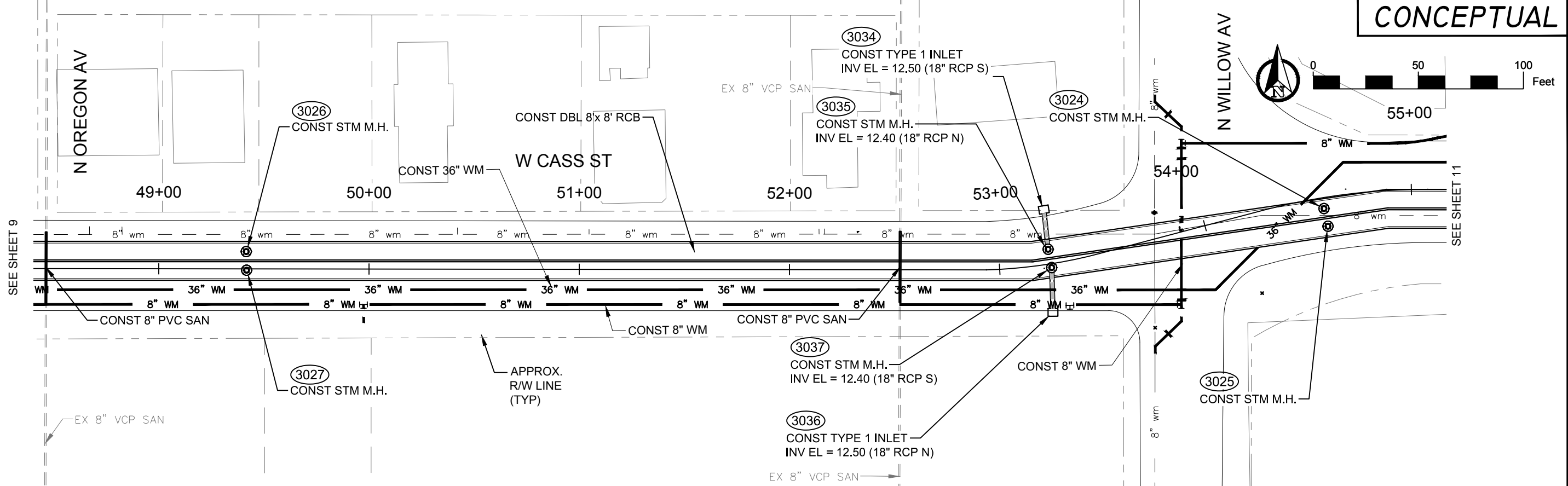
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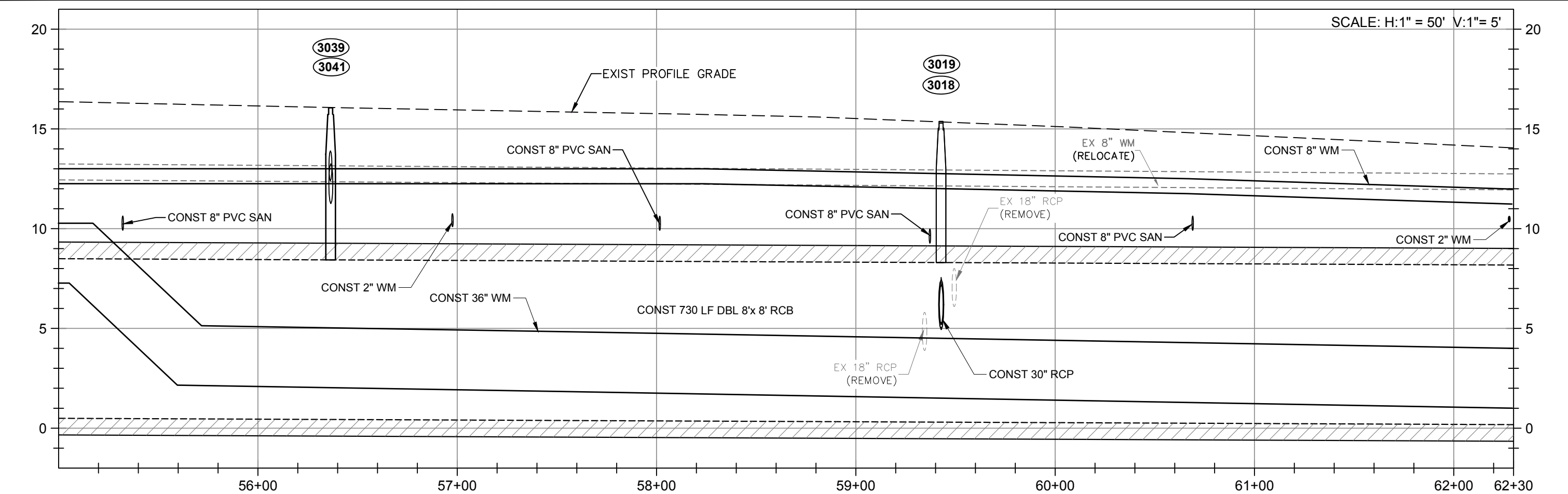
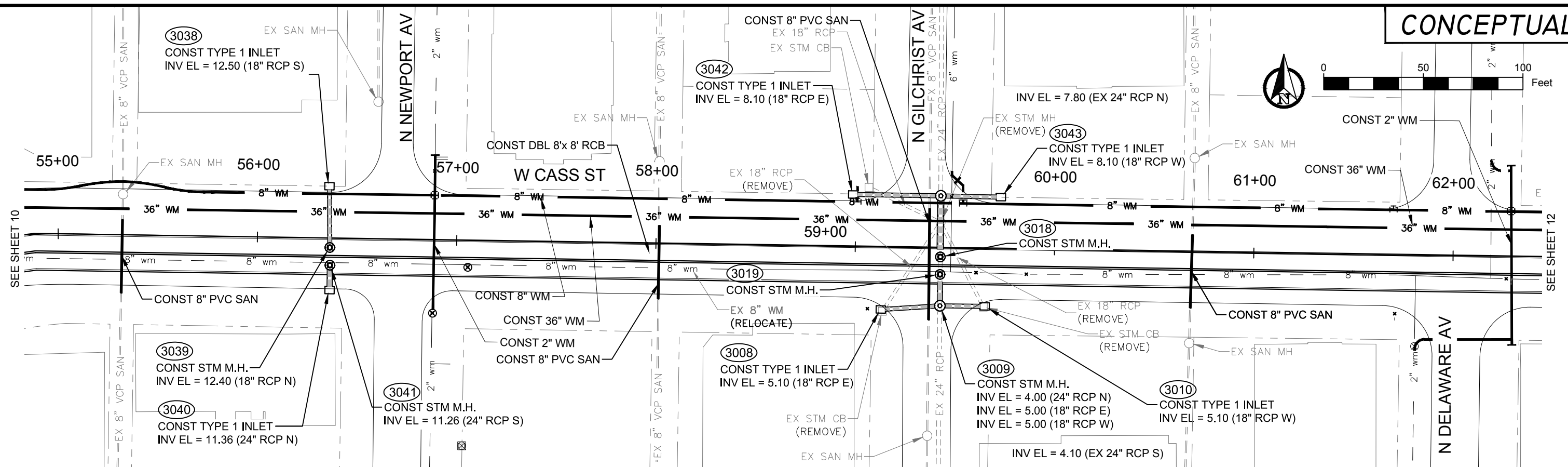
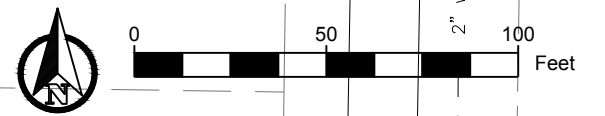
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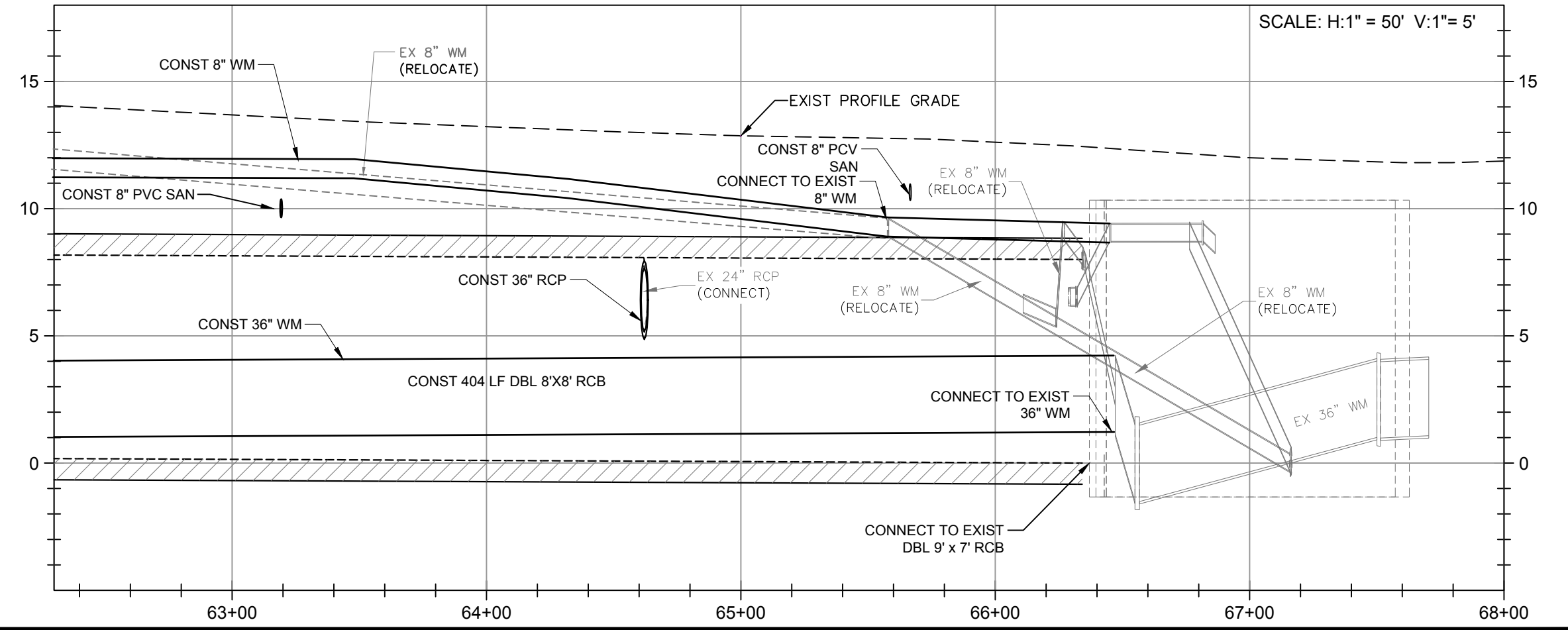
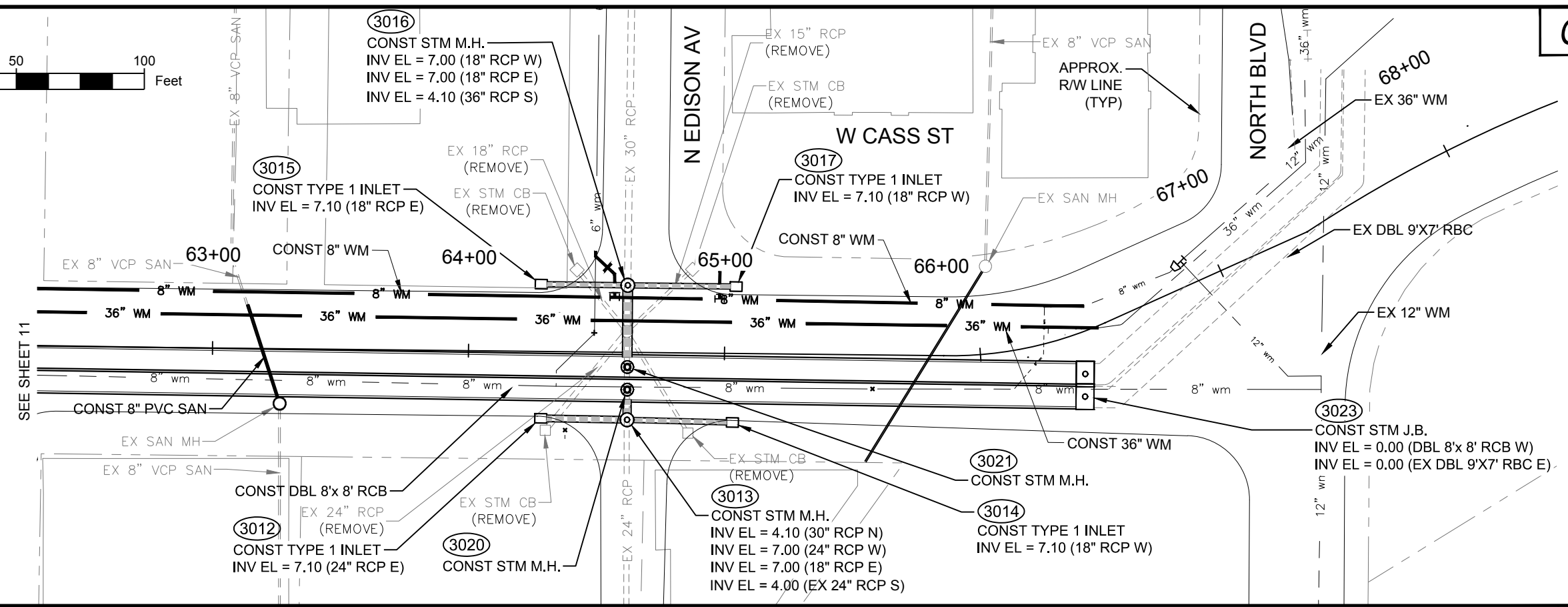
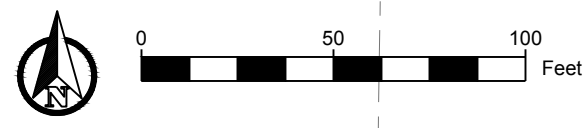
Cypress Street Outfall Regional Stormwater Improvements

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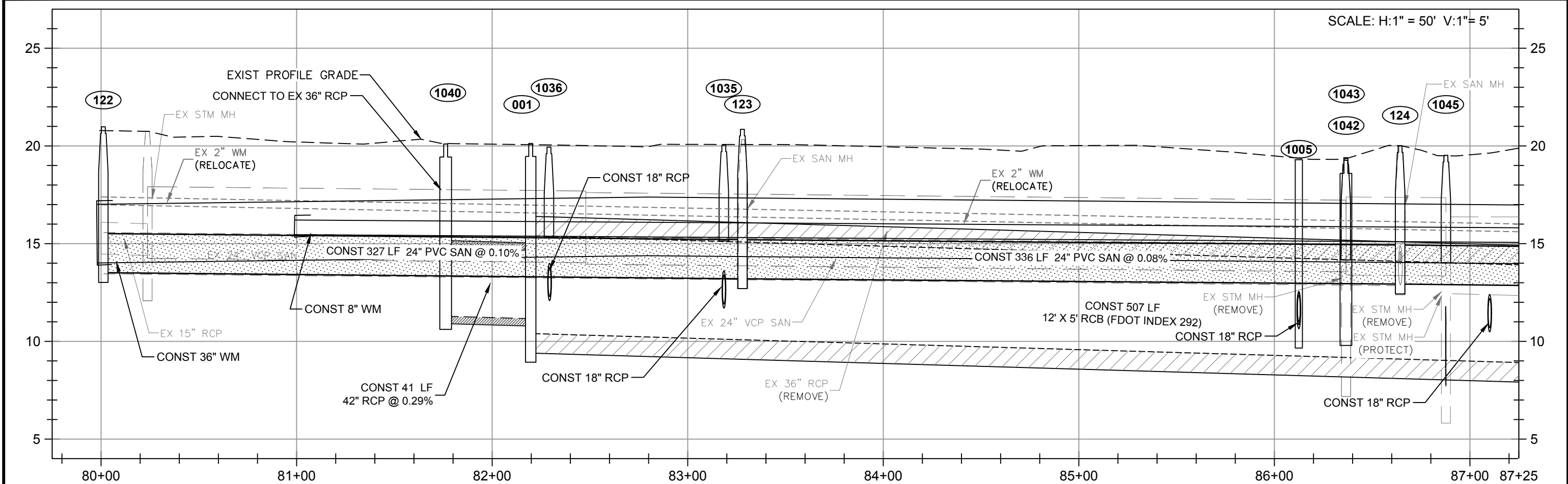
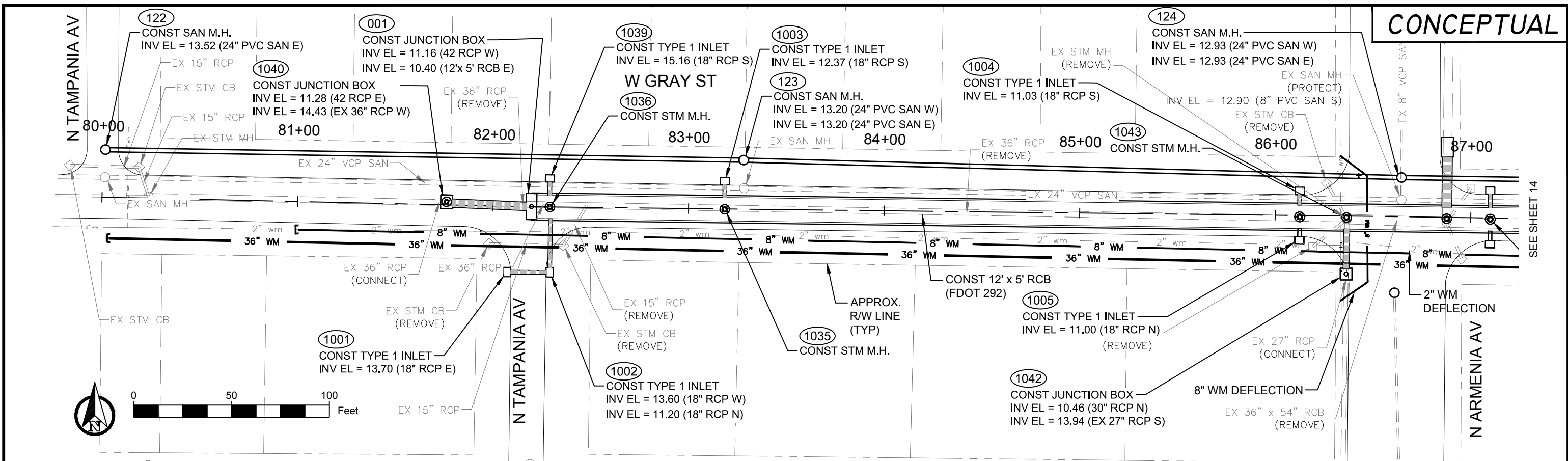
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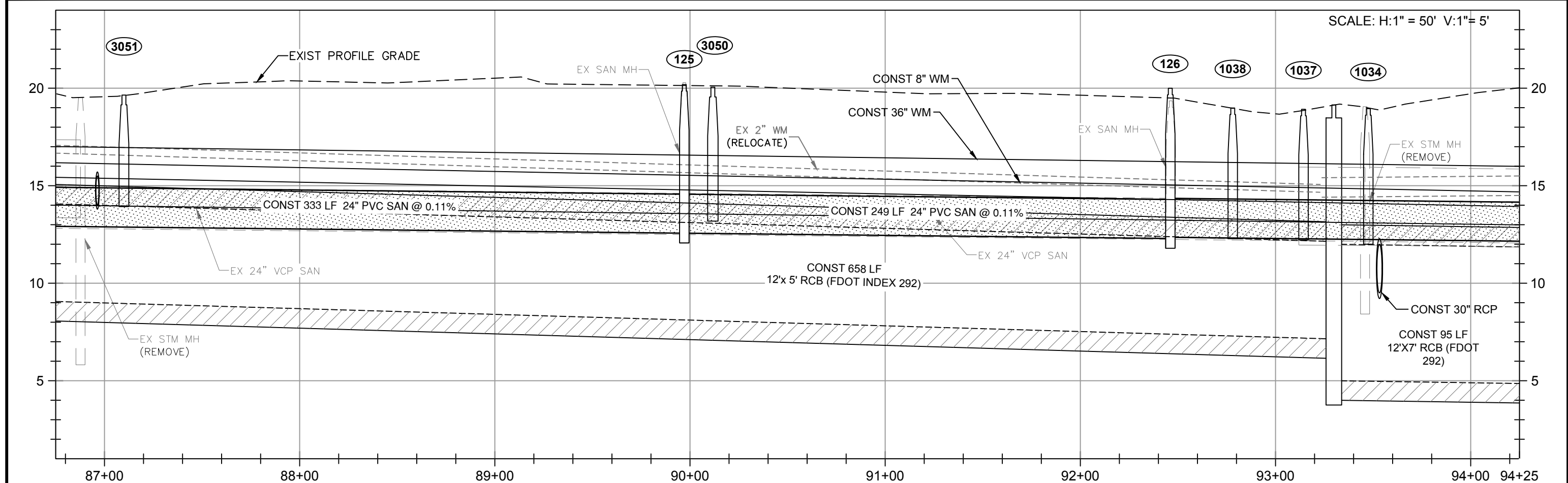
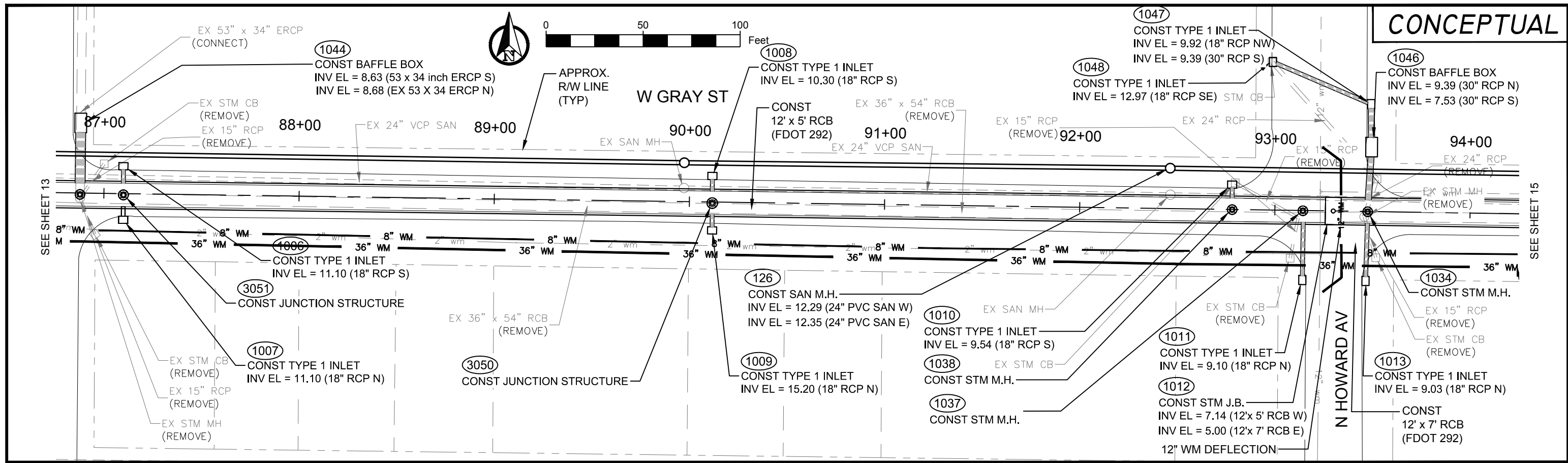
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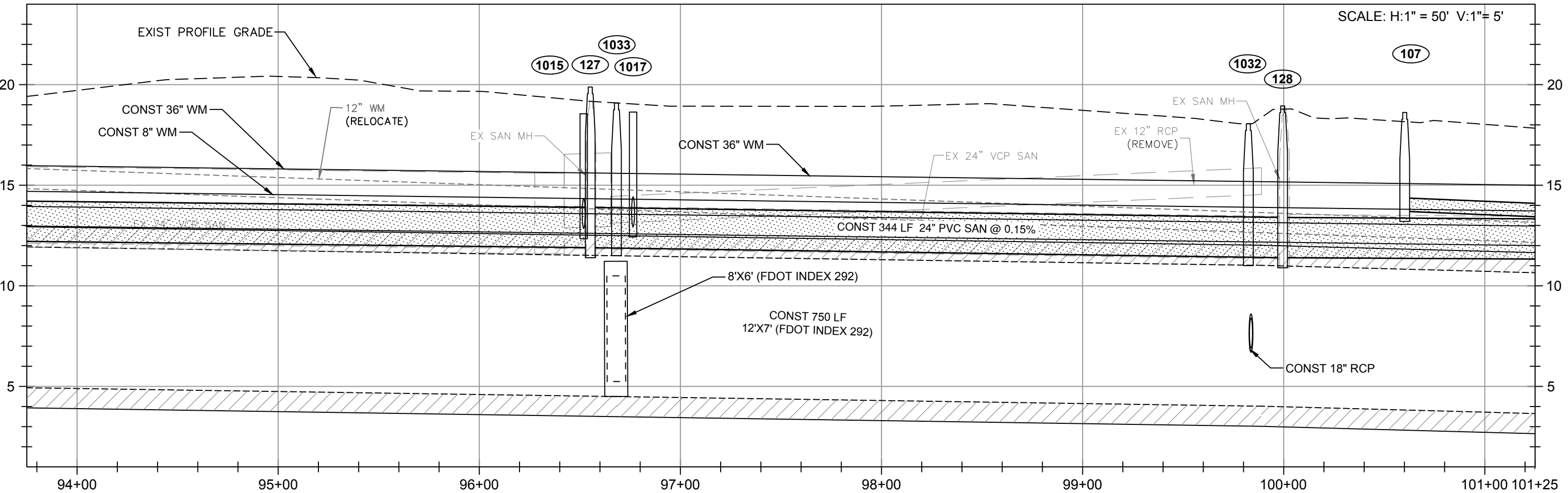
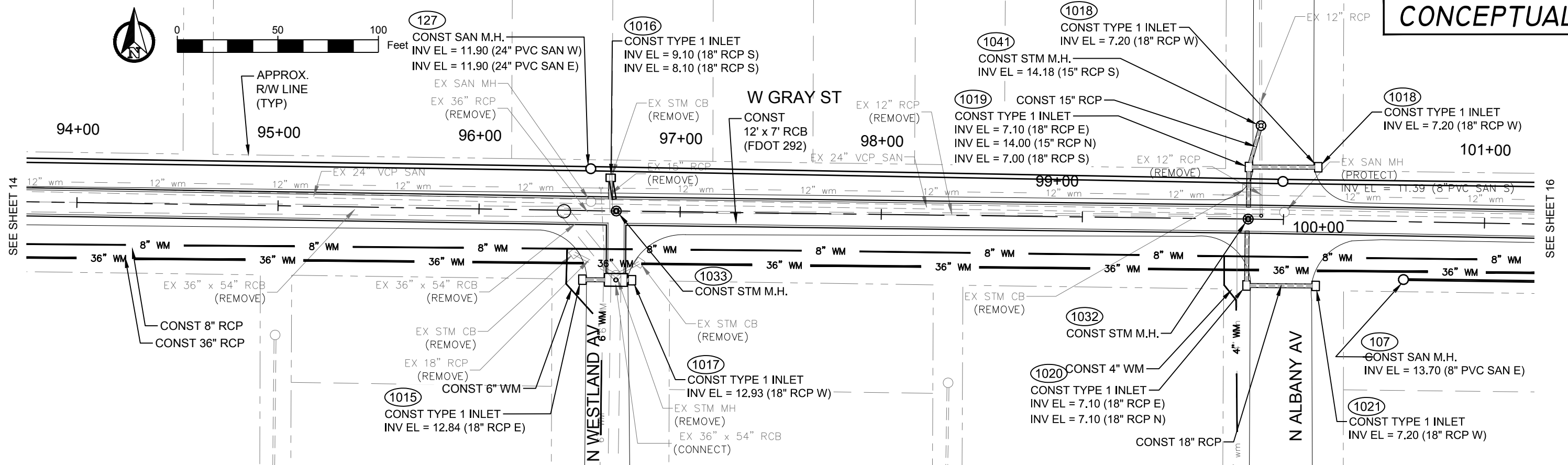
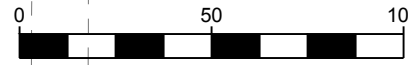
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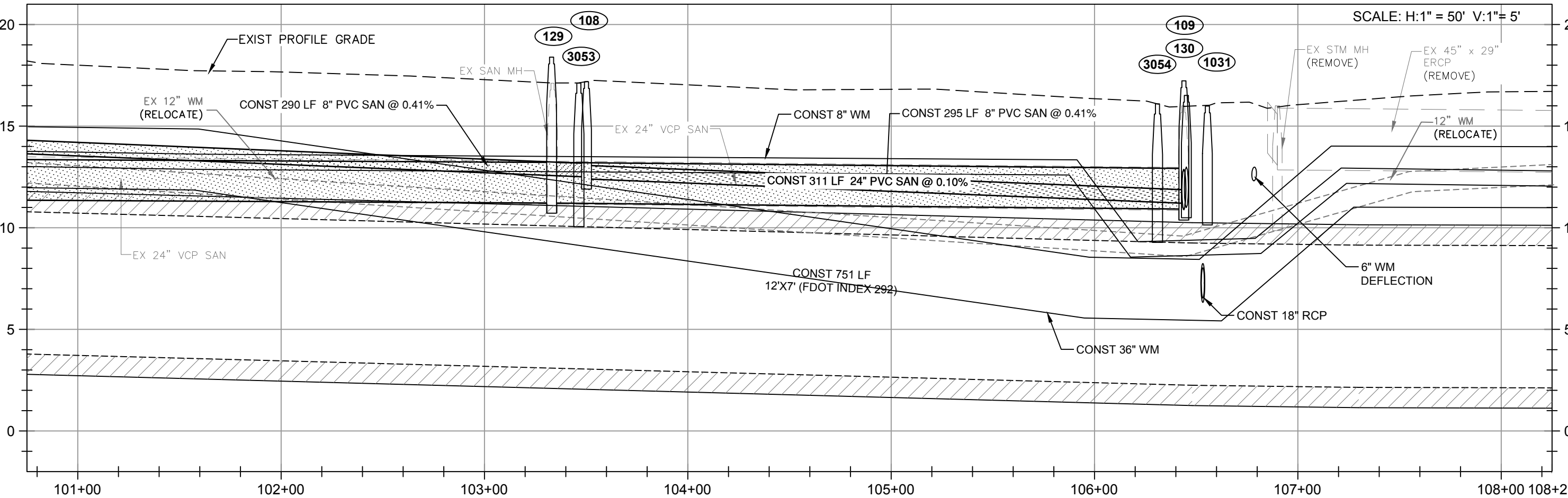
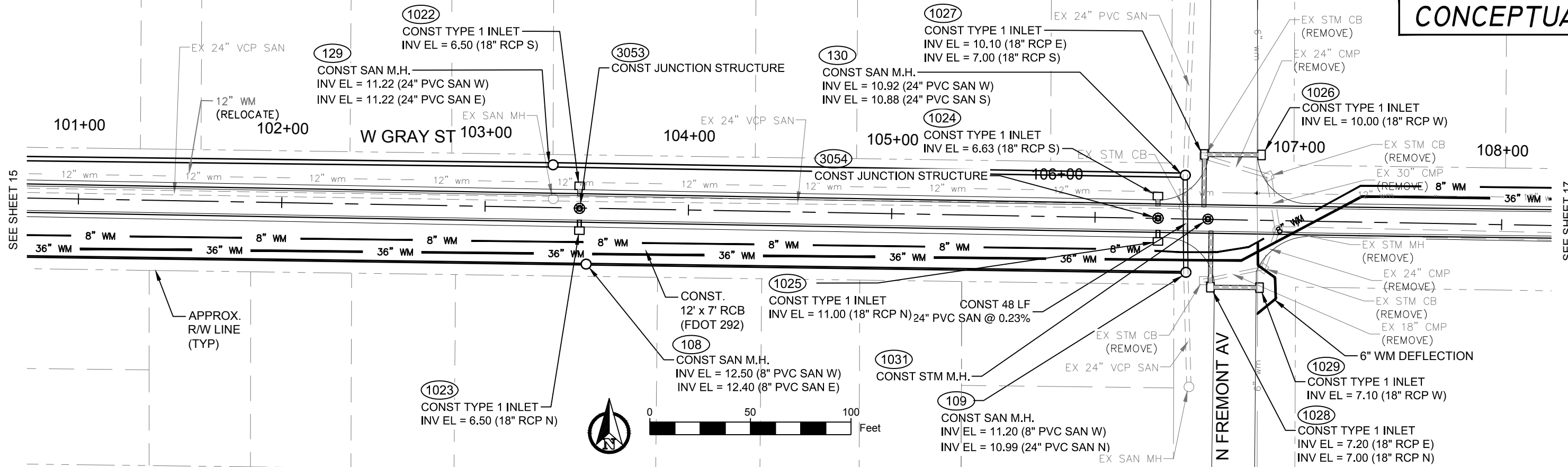


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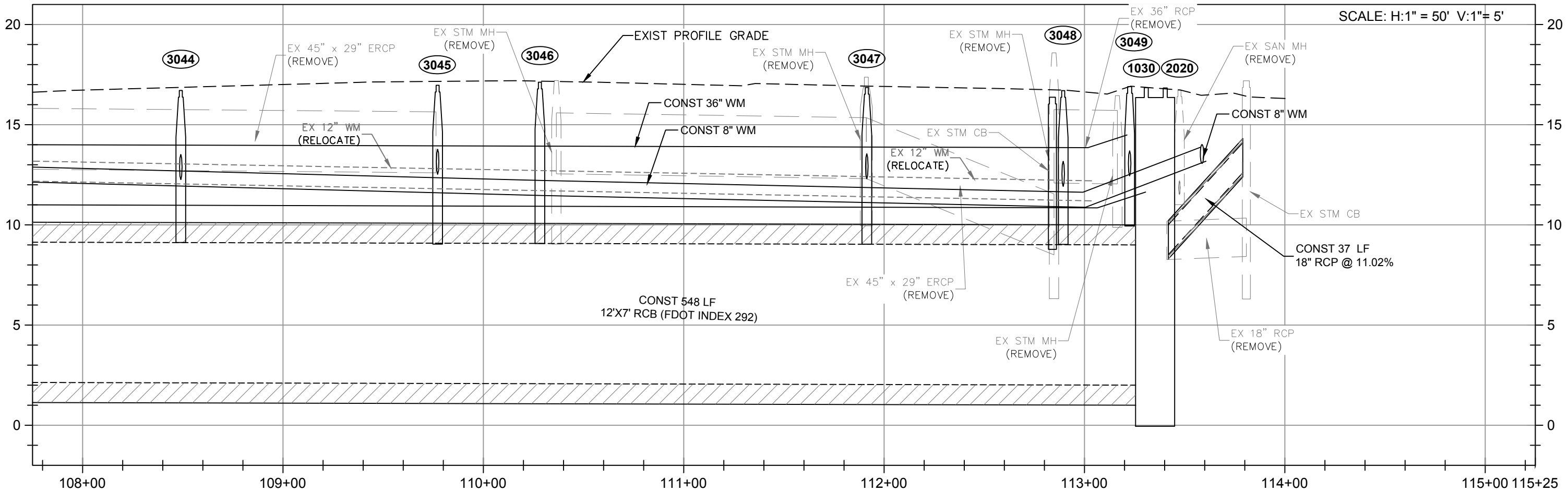
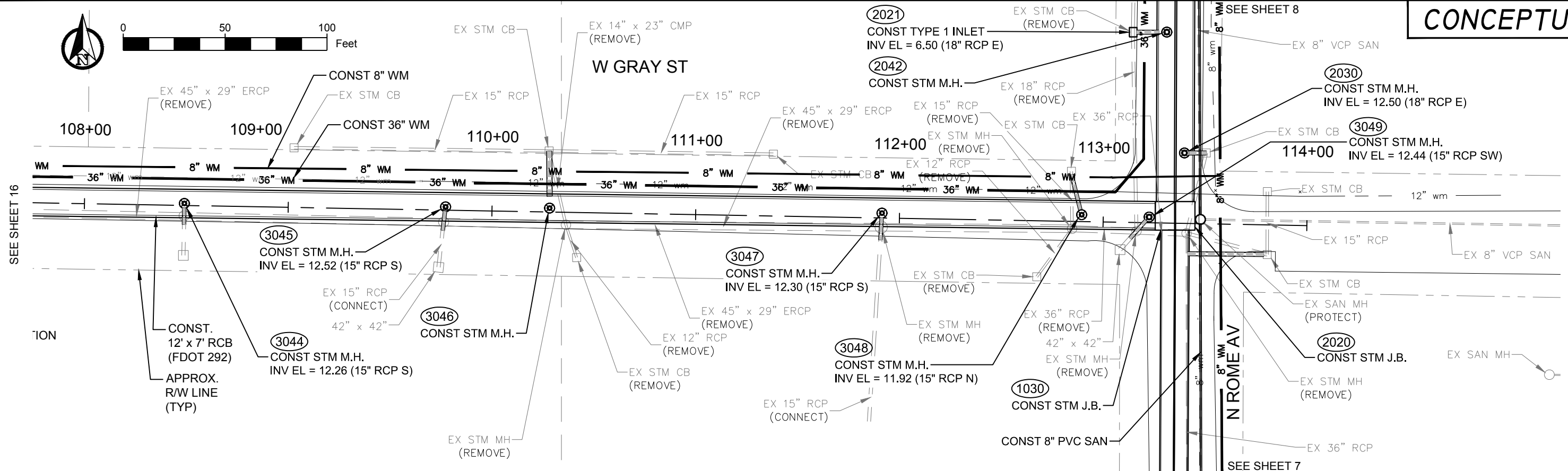
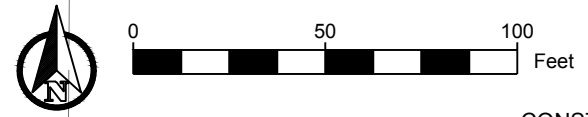
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Cypress Street Outfall Regional Stormwater Improvements

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C. Engineer's Opinion of Probable Construction Cost

By Interflow Engineering, L.L.C.

ENGINEER'S OPINION OF PROBABLE CONSTRUCTION COST

CLIENT: Alexander Awad, P.E. City of Tampa Stormwater Division 306 E. Jackson Street 6N Tampa, FL 33602 (813) 274-3257	DATE: 9/8/2015	REVISION: 5/3/2017
	Cypress Street Outfall	
	PHASE: PROJECT SUMMARY	

SEGEMENT	STORM FUNDED	CIAC WM FUNDED	SUBTOTAL
Section 1 Cass Street	\$ 10,181,000		\$ 10,181,000
Section 2 Rome Avenue	\$ 6,282,000		\$ 6,282,000
Section 3 Gray Street	\$ 9,008,000		\$ 9,008,000
36" Water Main: Cass St, Rome Av, & Gray St		\$ 4,951,000	\$ 4,951,000
PROJECT TOTAL	\$ 25,471,000	\$ 4,951,000	\$ 30,422,000



PREPARED BY: Bryan Lardizabal

ENGINEER'S OPINION OF PROBABLE CONSTRUCTION COST

CLIENT: Alexander Awad, P.E. City of Tampa Stormwater Division 306 E. Jackson Street 6N Tampa, FL 33602 (813) 274-3257	DATE: 9/8/2015	REVISION: 5/3/2017
	PROJECT: Cypress Street Outfall	
	PHASE: Section 1 Cass St (N Blvd to Rome Ave)	

ITEM DESCRIPTION	UNIT	UNIT COST	QTY	LINE TOTAL
MAINTENANCE OF TRAFFIC	DY	\$ 350	273	\$ 95,550
TREE REMOVAL (4")	EA	\$ 1,000	1	\$ 1,000
8' x 8' RCB (TWIN)	LF	\$ 1,885	2590	\$ 4,882,150
JUNCTION BOX FOR RCB	EA	\$ 25,000	1	\$ 25,000
CONFLICT RCB FOR SANITARY	EA	\$ 7,000	1	\$ 7,000
MANHOLE, P-7, < 10'	EA	\$ 4,500	24	\$ 108,000
TYPE 1 CURB INLET	EA	\$ 6,500	19	\$ 123,500
PIPE CULVERT, ROUND, 18-30" RCP, SD	LF	\$ 100	563	\$ 56,300
MILLING EXIST ASPH PAVT, 2 1/4" AVG DEPTH	SY	\$ 3	12111	\$ 30,278
2" SUPERPAVE	TON	\$ 119	1317	\$ 156,733
BASE GROUP 9	SY	\$ 26	12111	\$ 314,889
TYPE B STABILIZATION	SY	\$ 12	12111	\$ 145,333
CONCRETE CURB & GUTTER, TYPE F	LF	\$ 20	5450	\$ 109,000
SUBTOTAL FOR STORM				\$ 6,054,733
SANITARY REPLACEMENT, 8" PVC	LF	\$ 60	280	\$ 16,800
SANITARY REPLACEMENT MANHOLE	EA	\$ 4,690	1	\$ 4,690
SUBTOTAL FOR SANITARY				\$ 21,490
2" PVC WATER MAIN	LF	\$ 30	100	\$ 3,000
6" DIP WATER MAIN	LF	\$ 114	100	\$ 11,400
8" DIP WATER MAIN	LF	\$ 130	2775	\$ 360,750
16" DIP WATER MAIN	LF	\$ 190	90	\$ 17,100
FIRE HYDRANT, RELOCATE	EA	\$ 3,600	1	\$ 3,600
SUBTOTAL FOR WATER				\$ 395,850
SUBTOTAL				\$ 6,472,073
Mobilization		10%		\$ 647,207
Contingency		30%		\$ 2,349,362
Geotechnical, Utility Locates, & Design		10%		\$ 711,928
TOTAL				\$ 10,180,570
ROUNDED TOTAL				\$ 10,181,000



ENGINEER'S OPINION OF PROBABLE CONSTRUCTION COST		
CLIENT: Alexander Awad, P.E. City of Tampa Stormwater Division 306 E. Jackson Street 6N Tampa, FL 33602 (813) 274-3257	DATE: 9/8/2015	REVISION: 5/3/2017
	PROJECT: Cypress Street Outfall	
	PHASE: Section 2 Rome Ave (Cass St to Kennedy Blvd)	

ITEM DESCRIPTION	UNIT	UNIT COST	QTY	LINE TOTAL
MAINTENANCE OF TRAFFIC	DY	\$ 350	188	\$ 65,800
8' x 8' RCB (TWIN)	LF	\$ 1,885	518	\$ 976,430
6' x 5' RCB (TWIN)	LF	\$ 1,290	1273	\$ 1,642,170
MANHOLE, P-7, < 10'	EA	\$ 4,500	23	\$ 103,500
TYPE 1 CURB INLET	EA	\$ 6,500	27	\$ 175,500
JUNCTION BOX FOR RCB	EA	\$ 15,000	1	\$ 15,000
RCB BULKHEAD	EA	\$ 2,500	2	\$ 5,000
PIPE CULVERT, ROUND, 18-24" RCP, SD	LF	\$ 148	680	\$ 100,640
MILLING EXIST ASPH PAVT, 2 1/4" AVG DEPTH	SY	\$ 3	5950	\$ 17,850
2" SUPERPAVE	TON	\$ 119	453	\$ 53,907
BASE GROUP 9	SY	\$ 26	5950	\$ 154,700
TYPE B STABILIZATION	SY	\$ 12	5950	\$ 71,400
CONCRETE CURB & GUTTER, TYPE F	LF	\$ 20	3740	\$ 74,800
SUBTOTAL FOR ROME STREET				\$ 3,456,697
SANITARY REPLACEMENT, 6" PVC LATERAL	EA	\$ 750	120	\$ 90,000
SANITARY REPLACEMENT, 8" PVC	LF	\$ 60	2290	\$ 137,400
SANITARY REPLACEMENT MANHOLE	EA	\$ 4,690	11	\$ 51,590
SUBTOTAL FOR SANITARY				\$ 278,990
2" PVC WATER MAIN	LF	\$ 35	55	\$ 1,925
6" DIP WATER MAIN	LF	\$ 70	114	\$ 7,980
8" DIP WATER MAIN	LF	\$ 130	1850	\$ 240,500
12" DIP WATER MAIN	LF	\$ 150	50	\$ 7,500
SUBTOTAL FOR WATER				\$ 257,905
SUBTOTAL				\$ 3,993,592
Mobilization		10%		\$ 399,359
Contingency		30%		\$ 1,449,674
Geotechnical, Utility Locates, & Design		10%		\$ 439,295.1
TOTAL				\$ 6,281,920
ROUNDED TOTAL				\$ 6,282,000



PREPARED BY: Bryan Lardizabal

ENGINEER'S OPINION OF PROBABLE CONSTRUCTION COST		
CLIENT: Alexander Awad, P.E. City of Tampa Stormwater Division 306 E. Jackson Street 6N Tampa, FL 33602 (813) 274-3257	DATE: 10/19/2015	REVISION: 5/3/2017
	PROJECT: Cypress Street Outfall	
	PHASE: Section 3 Gray St (Tampania Ave to Rome Ave)	

ITEM DESCRIPTION	UNIT	UNIT COST	QTY	LINE TOTAL
MAINTENANCE OF TRAFFIC	DY	\$ 350	111	\$ 38,850
TREE REMOVAL (4")	EA	\$ 1,000	9	\$ 9,000
8' x 5' RCB	LF	\$ 820	22	\$ 18,040
12' x 5' RCB	LF	\$ 1,163	1110	\$ 1,290,930
12' x 7' RCB	LF	\$ 1,284	2002	\$ 2,570,568
MANHOLE, P-7, < 10'	EA	\$ 4,500	22	\$ 99,000
TYPE 1 CURB INLET	EA	\$ 6,500	29	\$ 188,500
JUNCTION BOX FOR RCB	EA	\$ 10,000	4	\$ 40,000.00
WATER QUALITY BAFFLE BOX - SUNTREE	EA	\$ 60,000	2	\$ 120,000.00
PIPE CULVERT, ROUND, 15-18" RCP, SD	LF	\$ 80	562	\$ 44,960
PIPE CULVERT, ROUND, 24"-30" RCP, SD	LF	\$ 114	84	\$ 9,576
PIPE CULVERT, ROUND, 42" RCP, SD	LF	\$ 176	58	\$ 10,208
MILLING EXIST ASPH PAVT, 2 1/4" AVG DEPTH	SY	\$ 2.5	6934	\$ 17,335
2" SUPERPAVE	TON	\$ 119	754	\$ 89,726
BASE GROUP 9	SY	\$ 26	6934	\$ 180,284
TYPE B STABILIZATION	SY	\$ 12	6934	\$ 83,208
CONCRETE CURB & GUTTER, TYPE F	LF	\$ 20	6240	\$ 124,800
SUBTOTAL FOR STORM				\$ 4,934,985
SANITARY REPLACEMENT, 6" PVC LATERAL	EA	\$ 750	9	\$ 6,750.00
SANITARY REPLACEMENT, 8" PVC	LF	\$ 60	585	\$ 35,100
SANITARY REPLACEMENT, 24" PVC	LF	\$ 90	2690	\$ 242,100
SANITARY REPLACEMENT MANHOLE	EA	\$ 4,690	12	\$ 56,280
				\$ 340,230
2" PVC WATER MAIN	LF	\$ 35	210	\$ 7,350.00
6" DIP WATER MAIN	LF	\$ 114	55	\$ 6,270.00
8" DIP WATER MAIN	LF	\$ 130	3270	\$ 425,100.00
12" DIP WATER MAIN	LF	\$ 150	38	\$ 5,700.00
FIRE HYDRANT, RELOCATE	EA	\$ 3,600	2	\$ 7,200
SUBTOTAL FOR WATER				\$ 451,620
SUBTOTAL				\$ 5,726,835
Mobilization		10%		\$ 572,684
Contingency		30%		\$ 2,078,841
Geotechnical, Utility Locates, & Design		10%		\$ 629,952
TOTAL				\$ 9,008,311
ROUNDED TOTAL				\$ 9,008,000



INTERFLOW ENGINEERING, LLC

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ENGINEER'S OPINION OF PROBABLE CONSTRUCTION COST

CLIENT: Alexander Awad, P.E. City of Tampa Stormwater Division 306 E. Jackson Street 6N Tampa, FL 33602 (813) 274-3257	DATE: 5/3/2017	REVISION:
	PROJECT: Cypress Street Outfall	
	PHASE: 36" Watermain (Cass St, Rome Av, & Gray St)	

ITEM DESCRIPTION	UNIT	UNIT COST	QTY	LINE TOTAL
MAINTENANCE OF TRAFFIC	DY	\$ 350	273	\$ 95,550
TYPE B STABILIZATION	SY	\$ 12	12111	\$ 145,333
36" DIP WATER MAIN	LF	\$ 568	5420	\$ 3,078,560
FIRE HYDRANT, RELOCATE	EA	\$ 3,600	1	\$ 3,600
SUBTOTAL				\$ 3,323,043
Mobilization		10%		\$ 332,304
Contingency		30%		\$ 1,096,604
Design & Permitting		6%		\$ 199,383
TOTAL				\$ 4,951,335
ROUNDED TOTAL				\$ 4,951,000



PREPARED BY: Bryan Lardizabal

D. Benefit – Cost Ratio

By Interflow Engineering, L.L.C.

Appendix D. BENEFIT-COST RATIO

CLIENT: City of Tampa Stormwater Division 306 E. Jackson Street 6N Tampa, FL 33602 (813) 274-3257	DATE: 5/8/2017	REVISION: Version 3.3
	PROJECT: Cypress Street Outfall	
	PHASE/SEGMENTS: Cass St., Rome Ave. & Gray St.	

PROJECT BENEFIT SAVINGS	SUBTOTAL
Building Structures Avoided Damages	\$ 5,592,720
Roads Avoided Damages	\$ 33,966,900
PROJECT TOTAL	\$ 39,559,620

OPINION OF PROBABLE CONSTRUCTION COST	SUBTOTAL
Section 1 Cass Street	\$ 10,181,000
Section 2 Rome Avenue	\$ 6,282,000
Section 3 Gray Street	\$ 9,008,000
PROJECT TOTAL	\$ 25,471,000

BENEFIT COST RATIO	1.55
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Unique ID	Address	Parcel (STRAP) ID	Finished Floor Elev. (ft, NAVD88)	Square Footage	Bldg Value	Bldg Class	Ex. Mean Flood Depth (ft)	Ex. 5-yr/1-d Flood Depth (ft)	Ex. 10-yr/1-d Flood Depth (ft)	Ex. 25-yr/1-d Flood Depth (ft)	Ex. 50-yr/1-d Flood Depth (ft)	Ex. 100-yr/1-d Flood Depth (ft)	LOS
5248	1520 W KENNEDY BV	1829234S000006000010A	16.88	5180.85	\$ 661,379	NONRESS	0.65	0.65	0.81	1.04	1.41	1.73	E
3338	1529 W NORTH A ST	1829234S3000006000130A	17.16	12086.83	\$ 286,053	NONRES21	0.61	0.84	1.20	1.32	1.71	2.13	E
3337	1528 W NORTH B ST	1829234S3000006000090A	17.41	12439.51	\$ 341,468	NONRES9	0.60	0.84	1.10	1.31	1.70	2.03	E
3276	501 N HOWARD AVE	1829234Q9000008000130A	20.11	7681.69	\$ 655,076	NONRES8	0.43	0.54	0.56	0.72	0.82	0.84	E
3312	1524 W FIG ST	1829234S3000003000100A	17.27	6292.54	\$ 147,154	NONRES12	0.21	0.44	0.73	0.92	1.31	1.65	E
3422	310 N ROME AVE	1829234S5000004000010A	17.60	4747.98	\$ 14,888	NONRES21	0.00	0.44	0.72	0.91	1.30	1.62	D
3341	1541 W KENNEDY BLVD	1829234S3000010000010A	17.97	65066.67	\$ 2,813,399	NONRES17	0.00	0.29	0.46	0.61	0.98	1.34	D
3447	1701 W NORTH A ST	1829234S50000050000230A	17.34	5632.92	\$ 63,178	NONRES21	0.00	0.00	0.39	0.54	0.93	1.33	C
3487	118 N ROME AVE	1829234S5000008000010A	17.73	7101.09	\$ 154,170	NONRES21	0.00	0.00	0.30	0.51	0.90	1.19	C
3448	202 N ROME AVE	1829234S50000050000240A	17.22	7768.01	\$ 84,583	NONRES21	0.00	0.00	0.30	0.57	0.97	1.21	C
4234	406 S MELVILLE AVE	1829235XG000000000010A	20.32	972.19	\$ 252,320	R12N	0.35	0.38	0.39	0.42	0.49	0.53	E
5142	1007 W CLEVELAND ST	1829236S000000010070A	17.56	3548.32	\$ 485,587	NONRES15	0.00	0.00	0.20	0.38	0.58	0.60	C
3275	519 N HOWARD AVE	1829234Q9000008000111A	21.15	1960.85	\$ 138,621	NONRES15	0.00	0.00	0.00	0.42	0.52	0.39	C
4235	406 S MELVILLE AVE	1829235XG000000000020A	20.04	964.80	\$ 253,430	R12N	0.00	0.00	0.21	0.00	0.25	0.35	D
3957	602 S DAKOTA AVE	1829234SP000011000200A	17.43	1692.33	\$ 194,391	R12N	0.00	0.00	0.00	0.46	0.72	0.84	D
3336	1522 W NORTH B ST	1829234S3000006000080A	16.99	844.20	\$ 33,162	R11N	0.00	0.00	0.00	0.46	0.85	0.92	D
3595	202 S MELVILLE AVE	1829234S7000017000010A	19.50	1358.07	\$ 121,231	R12N	0.00	0.00	0.00	0.35	0.56	0.73	D
3335	1518 W NORTH B ST	1829234S3000006000070A	17.04	1084.36	\$ 33,426	R11N	0.00	0.00	0.00	0.00	0.50	0.83	C
3587	2002 W CLEVELAND ST	1829234S7000014000180A	19.11	1648.77	\$ 297,277	NONRES15	0.00	0.00	0.00	0.28	0.43	0.47	C
3821	1416 W KENNEDY BLVD	1829234SJ000007000010A	17.79	7335.52	\$ 566,338	NONRES1	0.00	0.00	0.00	0.24	0.65	0.95	C
3820	1506 W KENNEDY BLVD	1829234SJ000006000130A	18.09	4921.61	\$ 410,622	NONRES1	0.00	0.00	0.00	0.00	0.56	0.91	B
3313	1523 W NORTH B ST	1829234S3000003000161A	17.51	903.59	\$ 20,014	R11N	0.00	0.00	0.00	0.00	0.36	0.71	C
5249	102 N ROME AV	1829234S50000080000230A	18.04	9453.56	\$ 215,820	NONRES21	0.00	0.00	0.00	0.00	0.33	0.56	B
3495	1705 W KENNEDY BLVD	1829234S50000080000220A	18.21	7505.27	\$ 75,657	NONRES14	0.00	0.00	0.00	0.00	0.31	0.58	B
3334	1516 W NORTH B ST	1829234S3000006000060A	17.19	687.03	\$ 16,646	R11N	0.00	0.00	0.00	0.00	0.35	0.72	C
3274	525 N HOWARD AVE	1829234Q9000008000110A	21.45	1756.38	\$ 39,209	NONRES1	0.00	0.00	0.00	0.00	0.26	0.34	B
3433	304 N ROME AVE	1829234S5000004000200A	17.54	2352.87	\$ 35,114	NONRES21	0.00	0.00	0.00	0.00	0.24	0.35	B
3981	603 S DAKOTA AVE	1829234S5000000000A20A	18.06	653.62	\$ 194,821	NONRES18	0.00	0.00	0.00	0.00	0.24	0.39	B
3195	1903 W GRAY ST	1829234Q8000010000230A	19.35	2578.15	\$ 112,386	R11N	0.00	0.00	0.00	0.00	0.00	0.49	B
3488	1704 W NORTH A ST	1829234S5000008000020A	18.29	6556.38	\$ 106,845	NONRES21	0.00	0.00	0.00	0.00	0.00	0.50	B
3446	1707 W NORTH A ST	1829234S50000050000200A	17.68	19944.65	\$ 549,631	NONRES21	0.00	0.00	0.00	0.00	0.00	0.49	B
3435	1704 W NORTH B ST	1829234S5000005000010A	18.29	2702.56	\$ 132,704	NONRES15	0.00	0.00	0.00	0.00	0.00	0.46	B
3331	206 N OREGON AVE	1829234S3000006000010A	18.27	1363.96	\$ 17,005	NONRES6	0.00	0.00	0.00	0.00	0.00	0.42	B
3980	603 S DAKOTA AVE	1829234S5000000000A10A	17.82	654.38	\$ 194,821	NONRES18	0.00	0.00	0.00	0.00	0.00	0.38	B
5495	1711 W NORTH B ST	1829234S5000004000180A	17.63	986.52	\$ 58,120	R11N	0.00	0.00	0.00	0.00	0.00	0.41	B
3333	1510 W NORTH B ST	1829234S3000006000050A	18.04	2154.63	\$ 14,726	NONRES14	0.00	0.00	0.00	0.00	0.00	0.37	B
3983	603 S DAKOTA AVE	1829234S5000000000A40A	17.84	651.45	\$ 194,821	NONRES18	0.00	0.00	0.00	0.00	0.00	0.34	B
3436	1706 W NORTH B ST	1829234S5000005000050A	18.44	1344.82	\$ 47,721	R11N	0.00	0.00	0.00	0.00	0.00	0.34	B
3892	509 S DAKOTA AV	1829234SP000005000050A	18.29	1167.42	\$ 55,623	R11N	0.00	0.00	0.00	0.00	0.00	0.33	B
3355	2113 W NORTH B ST	1829234S4000001000102A	20.33	1807.41	\$ 40,362	NONRES18	0.00	0.00	0.00	0.00	0.00	0.25	B
3984	603 S DAKOTA AVE	1829234S5000000000A50A	17.95	650.16	\$ 194,821	NONRES18	0.00	0.00	0.00	0.00	0.00	0.25	B
3982	603 S DAKOTA AVE	1829234S5000000000A30A	17.76	652.03	\$ 194,821	NONRES18	0.00	0.00	0.00	0.00	0.00	0.24	B
3964	601 S OREGON AV	1829234SQ000000601E0A	17.56	627.09	\$ 153,356	NONRES18	0.00	0.00	0.00	0.00	0.00	0.23	B
3340	202 N OREGON AVE	1829234S30000060000230A	18.24	5817.90	\$ 53,166	NONRES21	0.00	0.00	0.00	0.00	0.00	0.22	B
3061	505 N ROME AVE	1829234Q7000010000090A	18.75	26799.80	\$ 562,879	NONRES21	0.00	0.00	0.00	0.00	0.00	0.22	B
3985	603 S DAKOTA AVE	1829234S5000000000A60A	17.73	650.45	\$ 194,821	NONRES18	0.00	0.00	0.00	0.00	0.00	0.21	B
5510	1600 W PLATT ST	1829234SJ000003000070A	19.46	8025.40	\$ 1,732,922	NONRES21	0.00	0.00	0.00	0.00	0.00	0.20	B

Unique ID	Address	Bldg Value	Bldg Class	Ex. Mean Flood Depth (ft)	Ex. 5-yr/1-d Flood Depth (ft)	Ex. 10-yr/1-d Flood Depth (ft)	Ex. 25-yr/1-d Flood Depth (ft)	Ex. 50-yr/1-d Flood Depth (ft)	Ex. 100-yr/1-d Flood Depth (ft)	Mean Total Damage Cost	5-yr/ 1-d Total Damage Cost	10-yr/ 1-d Total Damage Cost	25-yr/ 1-d Total Damage Cost	50-yr/ 1-d Total Damage Cost	100-yr/ 1-d Total Damage Cost
5248	1520 W KENNEDY BV	\$ 661,379	NONRES5	0.65	0.65	0.81	1.04	1.41	1.73	\$ 226,191.62	\$ 226,191.62	\$ 301,588.82	\$ 376,986.03	\$ 498,679.77	\$ 620,373.50
3338	1529 W NORTH A ST	\$ 286,053	NONRES21	0.61	0.84	1.20	1.32	1.71	2.13	\$ 79,808.79	\$ 106,411.72	\$ 149,748.75	\$ 166,482.85	\$ 199,951.05	\$ 229,414.51
3337	1528 W NORTH B ST	\$ 341,468	NONRES9	0.60	0.84	1.10	1.31	1.70	2.03	\$ 75,805.90	\$ 101,074.53	\$ 142,904.36	\$ 159,465.56	\$ 192,587.95	\$ 209,149.15
3276	501 N HOWARD AVE	\$ 655,076	NONRES8	0.43	0.54	0.56	0.72	0.82	0.84	\$ 119,223.83	\$ 173,922.68	\$ 173,922.68	\$ 228,621.52	\$ 228,621.52	\$ 228,621.52
3312	1524 W FIG ST	\$ 147,154	NONRES12	0.21	0.44	0.73	0.92	1.31	1.65	\$ 19,350.75	\$ 38,701.50	\$ 77,403.00	\$ 96,753.76	\$ 122,800.01	\$ 135,823.14
3422	310 N ROME AVE	\$ 14,888	NONRES21	0.00	0.44	0.72	0.91	1.30	1.62	\$ -	\$ 2,769.17	\$ 5,538.34	\$ 6,922.92	\$ 7,793.87	\$ 9,535.76
3341	1541 W KENNEDY BLVD	\$ 2,813,399	NONRES17	0.00	0.29	0.46	0.61	0.98	1.34	\$ -	\$ 322,134.19	\$ 637,234.87	\$ 952,335.56	\$ 1,582,536.94	\$ 1,872,317.03
3447	1701 W NORTH A ST	\$ 63,178	NONRES21	0.00	0.00	0.39	0.54	0.93	1.33	\$ -	\$ -	\$ 11,751.11	\$ 17,626.66	\$ 29,377.77	\$ 36,769.60
3487	118 N ROME AVE	\$ 154,170	NONRES21	0.00	0.00	0.30	0.51	0.90	1.19	\$ -	\$ -	\$ 14,337.81	\$ 43,013.43	\$ 71,689.05	\$ 80,708.00
3448	202 N ROME AVE	\$ 84,583	NONRES21	0.00	0.00	0.30	0.57	0.97	1.21	\$ -	\$ -	\$ 7,866.22	\$ 23,598.66	\$ 39,331.10	\$ 44,279.20
4234	406 S MELVILLE AVE	\$ 252,320	R12N	0.35	0.38	0.39	0.42	0.49	0.53	\$ 94,620.00	\$ 94,620.00	\$ 94,620.00	\$ 94,620.00	\$ 94,620.00	\$ 98,404.80
5142	1007 W CLEVELAND ST	\$ 485,587	NONRES15	0.00	0.00	0.20	0.38	0.58	0.60	\$ -	\$ -	\$ 61,912.34	\$ 108,043.11	\$ 154,173.87	\$ 154,173.87
3275	519 N HOWARD AVE	\$ 138,621	NONRES15	0.00	0.00	0.00	0.42	0.52	0.39	\$ -	\$ -	\$ -	\$ 30,843.17	\$ 44,012.17	\$ 30,843.17
4235	406 S MELVILLE AVE	\$ 253,430	R12N	0.00	0.00	0.21	0.00	0.25	0.35	\$ -	\$ -	\$ 93,769.10	\$ -	\$ 93,769.10	\$ 95,036.25
3957	602 S DAKOTA AVE	\$ 194,391	R12N	0.00	0.00	0.00	0.46	0.72	0.84	\$ -	\$ -	\$ -	\$ 72,896.63	\$ 76,784.45	\$ 76,784.45
3336	1522 W NORTH B ST	\$ 33,162	R11N	0.00	0.00	0.00	0.46	0.85	0.92	\$ -	\$ -	\$ -	\$ 21,886.92	\$ 24,871.50	\$ 26,529.60
3595	202 S MELVILLE AVE	\$ 121,231	R12N	0.00	0.00	0.00	0.35	0.56	0.73	\$ -	\$ -	\$ -	\$ 45,461.63	\$ 47,280.09	\$ 47,886.25
3335	1518 W NORTH B ST	\$ 33,426	R11N	0.00	0.00	0.00	0.00	0.50	0.83	\$ -	\$ -	\$ -	\$ -	\$ 22,061.16	\$ 25,069.50
3587	2002 W CLEVELAND ST	\$ 297,277	NONRES15	0.00	0.00	0.00	0.28	0.43	0.47	\$ -	\$ -	\$ -	\$ 37,902.82	\$ 66,144.13	\$ 66,144.13
3821	1416 W KENNEDY BLVD	\$ 566,338	NONRES1	0.00	0.00	0.00	0.24	0.65	0.95	\$ -	\$ -	\$ -	\$ 57,766.48	\$ 173,299.43	\$ 288,832.38
3820	1506 W KENNEDY BLVD	\$ 410,622	NONRES1	0.00	0.00	0.00	0.00	0.56	0.91	\$ -	\$ -	\$ -	\$ -	\$ 125,650.33	\$ 209,417.22
3313	1523 W NORTH B ST	\$ 20,014	R11N	0.00	0.00	0.00	0.00	0.36	0.71	\$ -	\$ -	\$ -	\$ -	\$ 13,209.24	\$ 15,010.50
5249	102 N ROME AV	\$ 215,820	NONRES21	0.00	0.00	0.00	0.00	0.33	0.56	\$ -	\$ -	\$ -	\$ -	\$ 40,142.52	\$ 60,213.78
3495	1705 W KENNEDY BLVD	\$ 75,657	NONRES14	0.00	0.00	0.00	0.00	0.31	0.58	\$ -	\$ -	\$ -	\$ -	\$ 12,294.26	\$ 18,346.82
3334	1516 W NORTH B ST	\$ 16,646	R11N	0.00	0.00	0.00	0.00	0.35	0.72	\$ -	\$ -	\$ -	\$ -	\$ 10,986.36	\$ 12,484.50
3274	525 N HOWARD AVE	\$ 39,209	NONRES1	0.00	0.00	0.00	0.00	0.26	0.34	\$ -	\$ -	\$ -	\$ -	\$ 3,999.32	\$ 7,998.64
3433	304 N ROME AVE	\$ 35,114	NONRES21	0.00	0.00	0.00	0.00	0.24	0.35	\$ -	\$ -	\$ -	\$ -	\$ 3,265.60	\$ 6,531.20
3981	603 S DAKOTA AVE	\$ 194,821	NONRES18	0.00	0.00	0.00	0.00	0.24	0.39	\$ -	\$ -	\$ -	\$ -	\$ 19,287.28	\$ 38,574.56
3195	1903 W GRAY ST	\$ 112,386	R11N	0.00	0.00	0.00	0.00	0.00	0.49	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 74,174.76
3488	1704 W NORTH A ST	\$ 106,845	NONRES21	0.00	0.00	0.00	0.00	0.00	0.50	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 19,873.17
3446	1707 W NORTH A ST	\$ 549,631	NONRES21	0.00	0.00	0.00	0.00	0.00	0.49	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 102,231.37
3435	1704 W NORTH B ST	\$ 132,704	NONRES15	0.00	0.00	0.00	0.00	0.00	0.46	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 29,526.64
3331	206 N OREGON AVE	\$ 17,005	NONRES6	0.00	0.00	0.00	0.00	0.00	0.42	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 5,220.54
3980	603 S DAKOTA AVE	\$ 194,821	NONRES18	0.00	0.00	0.00	0.00	0.00	0.38	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 38,574.56
5495	1711 W NORTH B ST	\$ 58,120	R11N	0.00	0.00	0.00	0.00	0.00	0.41	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 38,359.20
3333	1510 W NORTH B ST	\$ 14,726	NONRES14	0.00	0.00	0.00	0.00	0.00	0.37	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 2,392.98
3983	603 S DAKOTA AVE	\$ 194,821	NONRES18	0.00	0.00	0.00	0.00	0.00	0.34	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 38,574.56
3436	1706 W NORTH B ST	\$ 47,721	R11N	0.00	0.00	0.00	0.00	0.00	0.34	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 31,495.86
3892	509 S DAKOTA AV	\$ 55,623	R11N	0.00	0.00	0.00	0.00	0.00	0.33	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 36,711.18
3355	2113 W NORTH B ST	\$ 40,362	NONRES18	0.00	0.00	0.00	0.00	0.00	0.25	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 3,995.84
3984	603 S DAKOTA AVE	\$ 194,821	NONRES18	0.00	0.00	0.00	0.00	0.00	0.25	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 19,287.28
3982	603 S DAKOTA AVE	\$ 194,821	NONRES18	0.00	0.00	0.00	0.00	0.00	0.24	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 19,287.28
3964	601 S OREGON AV	\$ 153,356	NONRES18	0.00	0.00	0.00	0.00	0.00	0.23	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 15,182.24
3340	202 N OREGON AVE	\$ 53,166	NONRES21	0.00	0.00	0.00	0.00	0.00	0.22	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 4,944.44
3061	505 N ROME AVE	\$ 562,879	NONRES21	0.00	0.00	0.00	0.00	0.00	0.22	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 52,347.75
3985	603 S DAKOTA AVE	\$ 194,821	NONRES18	0.00	0.00	0.00	0.00	0.00	0.21	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 19,287.28
5510	1600 W PLATT ST	\$ 1,732,922	NONRES21	0.00	0.00	0.00	0.00	0.00	0.20	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 161,161.75

Unique ID	Address	Bldg Value	Bldg Class	Mean Total Damage Cost	5-yr/ 1-d Total Damage Cost	10-yr/ 1-d Total Damage Cost	25-yr/ 1-d Total Damage Cost	50-yr/ 1-d Total Damage Cost	100-yr/ 1-d Total Damage Cost	0.23 Interval x Avg. Cost for Interval	0.1 Interval x Avg. Cost for Interval	0.06 Interval x Avg. Cost for Interval	0.02 Interval x Avg. Cost for Interval	0.01 Interval x Avg. Cost for Interval	Total Expected Annual Damages
5248	1520 W KENNEDY BV	\$ 661,379	NONRES5	\$ 226,191.62	\$ 226,191.62	\$ 301,588.82	\$ 376,986.03	\$ 498,679.77	\$ 620,373.50	\$ 52,024.07	\$ 26,389.02	\$ 20,357.25	\$ 8,756.66	\$ 5,595.27	\$ 113,122.26
3338	1529 W NORTH A ST	\$ 286,053	NONRES21	\$ 79,808.79	\$ 106,411.72	\$ 149,748.75	\$ 166,482.85	\$ 199,951.05	\$ 229,414.51	\$ 21,415.36	\$ 12,808.02	\$ 9,486.95	\$ 3,664.34	\$ 2,146.83	\$ 49,521.50
3337	1528 W NORTH B ST	\$ 341,468	NONRES9	\$ 75,805.90	\$ 101,074.53	\$ 142,904.36	\$ 159,465.56	\$ 192,587.95	\$ 209,149.15	\$ 20,341.25	\$ 12,198.94	\$ 9,071.10	\$ 3,520.54	\$ 2,008.69	\$ 47,140.51
3276	501 N HOWARD AVE	\$ 655,076	NONRES8	\$ 119,223.83	\$ 173,922.68	\$ 173,922.68	\$ 228,621.52	\$ 228,621.52	\$ 228,621.52	\$ 33,711.85	\$ 17,392.27	\$ 12,076.33	\$ 4,572.43	\$ 2,286.22	\$ 70,039.09
3312	1524 W FIG ST	\$ 147,154	NONRES12	\$ 19,350.75	\$ 38,701.50	\$ 77,403.00	\$ 96,753.76	\$ 122,800.01	\$ 135,823.14	\$ 6,676.01	\$ 5,805.23	\$ 5,224.70	\$ 2,195.54	\$ 1,293.12	\$ 21,194.59
3422	310 N ROME AVE	\$ 14,888	NONRES21	\$ -	\$ 2,769.17	\$ 5,538.34	\$ 6,922.92	\$ 7,793.87	\$ 9,535.76	\$ 318.45	\$ 415.38	\$ 373.84	\$ 147.17	\$ 86.65	\$ 1,341.48
3341	1541 W KENNEDY BLVD	\$ 2,813,399	NONRES17	\$ -	\$ 322,134.19	\$ 637,234.87	\$ 952,335.56	\$ 1,582,536.94	\$ 1,872,317.03	\$ 37,045.43	\$ 47,968.45	\$ 47,687.11	\$ 25,348.72	\$ 17,274.27	\$ 175,323.99
3447	1701 W NORTH A ST	\$ 63,178	NONRES21	\$ -	\$ -	\$ 11,751.11	\$ 17,626.66	\$ 29,377.77	\$ 36,769.60	\$ -	\$ 587.56	\$ 881.33	\$ 470.04	\$ 330.74	\$ 2,269.67
3487	118 N ROME AVE	\$ 154,170	NONRES21	\$ -	\$ -	\$ 14,337.81	\$ 43,013.43	\$ 71,689.05	\$ 80,708.00	\$ -	\$ 716.89	\$ 1,720.54	\$ 1,147.02	\$ 761.99	\$ 4,346.44
3448	202 N ROME AVE	\$ 84,583	NONRES21	\$ -	\$ -	\$ 7,866.22	\$ 23,598.66	\$ 39,331.10	\$ 44,279.20	\$ -	\$ 393.31	\$ 943.95	\$ 629.30	\$ 418.05	\$ 2,384.61
4234	406 S MELVILLE AVE	\$ 252,320	R12N	\$ 94,620.00	\$ 94,620.00	\$ 94,620.00	\$ 94,620.00	\$ 94,620.00	\$ 98,404.80	\$ 21,762.60	\$ 9,462.00	\$ 5,677.20	\$ 1,892.40	\$ 965.12	\$ 39,759.32
5142	1007 W CLEVELAND ST	\$ 485,587	NONRES15	\$ -	\$ -	\$ 61,912.34	\$ 108,043.11	\$ 154,173.87	\$ 154,173.87	\$ -	\$ 3,095.62	\$ 5,098.66	\$ 2,622.17	\$ 1,541.74	\$ 12,358.19
3275	519 N HOWARD AVE	\$ 138,621	NONRES15	\$ -	\$ -	\$ -	\$ 30,843.17	\$ 44,012.17	\$ 30,843.17	\$ -	\$ -	\$ 925.30	\$ 748.55	\$ 374.28	\$ 2,048.13
4235	406 S MELVILLE AVE	\$ 253,430	R12N	\$ -	\$ -	\$ 93,769.10	\$ -	\$ 93,769.10	\$ 95,036.25	\$ -	\$ 4,688.46	\$ 2,813.07	\$ 937.69	\$ 944.03	\$ 9,383.25
3957	602 S DAKOTA AVE	\$ 194,391	R12N	\$ -	\$ -	\$ -	\$ 72,896.63	\$ 76,784.45	\$ 76,784.45	\$ -	\$ -	\$ 2,186.90	\$ 1,496.81	\$ 767.84	\$ 4,451.55
3336	1522 W NORTH B ST	\$ 33,162	R11N	\$ -	\$ -	\$ -	\$ 21,886.92	\$ 24,871.50	\$ 26,529.60	\$ -	\$ -	\$ 656.61	\$ 467.58	\$ 257.01	\$ 1,381.20
3595	202 S MELVILLE AVE	\$ 121,231	R12N	\$ -	\$ -	\$ -	\$ 45,461.63	\$ 47,280.09	\$ 47,886.25	\$ -	\$ -	\$ 1,363.85	\$ 927.42	\$ 475.83	\$ 2,767.10
3335	1518 W NORTH B ST	\$ 33,426	R11N	\$ -	\$ -	\$ -	\$ -	\$ 22,061.16	\$ 25,069.50	\$ -	\$ -	\$ -	\$ 220.61	\$ 235.65	\$ 456.26
3587	2002 W CLEVELAND ST	\$ 297,277	NONRES15	\$ -	\$ -	\$ -	\$ 37,902.82	\$ 66,144.13	\$ 66,144.13	\$ -	\$ -	\$ 1,137.08	\$ 1,040.47	\$ 661.44	\$ 2,839.00
3821	1416 W KENNEDY BLVD	\$ 566,338	NONRES1	\$ -	\$ -	\$ -	\$ 57,766.48	\$ 173,299.43	\$ 288,832.38	\$ -	\$ -	\$ 1,732.99	\$ 2,310.66	\$ 2,310.66	\$ 6,354.31
3820	1506 W KENNEDY BLVD	\$ 410,622	NONRES1	\$ -	\$ -	\$ -	\$ -	\$ 125,650.33	\$ 209,417.22	\$ -	\$ -	\$ -	\$ 1,256.50	\$ 1,675.34	\$ 2,931.84
3313	1523 W NORTH B ST	\$ 20,014	R11N	\$ -	\$ -	\$ -	\$ -	\$ 13,209.24	\$ 15,010.50	\$ -	\$ -	\$ -	\$ 132.09	\$ 141.10	\$ 273.19
5249	102 N ROME AV	\$ 215,820	NONRES21	\$ -	\$ -	\$ -	\$ -	\$ 40,142.52	\$ 60,213.78	\$ -	\$ -	\$ -	\$ 401.43	\$ 501.78	\$ 903.21
3495	1705 W KENNEDY BLVD	\$ 75,657	NONRES14	\$ -	\$ -	\$ -	\$ -	\$ 12,294.26	\$ 18,346.82	\$ -	\$ -	\$ -	\$ 122.94	\$ 153.21	\$ 276.15
3334	1516 W NORTH B ST	\$ 16,646	R11N	\$ -	\$ -	\$ -	\$ -	\$ 10,986.36	\$ 12,484.50	\$ -	\$ -	\$ -	\$ 109.86	\$ 117.35	\$ 227.22
3274	525 N HOWARD AVE	\$ 39,209	NONRES1	\$ -	\$ -	\$ -	\$ -	\$ 3,999.32	\$ 7,998.64	\$ -	\$ -	\$ -	\$ 39.99	\$ 59.99	\$ 99.98
3433	304 N ROME AVE	\$ 35,114	NONRES21	\$ -	\$ -	\$ -	\$ -	\$ 3,265.60	\$ 6,531.20	\$ -	\$ -	\$ -	\$ 32.66	\$ 48.98	\$ 81.64
3981	603 S DAKOTA AVE	\$ 194,821	NONRES18	\$ -	\$ -	\$ -	\$ -	\$ 19,287.28	\$ 38,574.56	\$ -	\$ -	\$ -	\$ 192.87	\$ 289.31	\$ 482.18
3195	1903 W GRAY ST	\$ 112,386	R11N	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 74,174.76	\$ -	\$ -	\$ -	\$ -	\$ 370.87	\$ 370.87
3488	1704 W NORTH A ST	\$ 106,845	NONRES21	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 19,873.17	\$ -	\$ -	\$ -	\$ -	\$ 99.37	\$ 99.37
3446	1707 W NORTH A ST	\$ 549,631	NONRES21	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 102,231.37	\$ -	\$ -	\$ -	\$ -	\$ 511.16	\$ 511.16
3435	1704 W NORTH B ST	\$ 132,704	NONRES15	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 29,526.64	\$ -	\$ -	\$ -	\$ -	\$ 147.63	\$ 147.63
3331	206 N OREGON AVE	\$ 17,005	NONRES6	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 5,220.54	\$ -	\$ -	\$ -	\$ -	\$ 26.10	\$ 26.10
3980	603 S DAKOTA AVE	\$ 194,821	NONRES18	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 38,574.56	\$ -	\$ -	\$ -	\$ -	\$ 192.87	\$ 192.87
5495	1711 W NORTH B ST	\$ 58,120	R11N	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 38,359.20	\$ -	\$ -	\$ -	\$ -	\$ 191.80	\$ 191.80
3333	1510 W NORTH B ST	\$ 14,726	NONRES14	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 2,392.98	\$ -	\$ -	\$ -	\$ -	\$ 11.96	\$ 11.96
3983	603 S DAKOTA AVE	\$ 194,821	NONRES18	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 38,574.56	\$ -	\$ -	\$ -	\$ -	\$ 192.87	\$ 192.87
3436	1706 W NORTH B ST	\$ 47,721	R11N	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 31,495.86	\$ -	\$ -	\$ -	\$ -	\$ 157.48	\$ 157.48
3892	509 S DAKOTA AV	\$ 55,623	R11N	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 36,711.18	\$ -	\$ -	\$ -	\$ -	\$ 183.56	\$ 183.56
3355	2113 W NORTH B ST	\$ 40,362	NONRES18	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 3,995.84	\$ -	\$ -	\$ -	\$ -	\$ 19.98	\$ 19.98
3984	603 S DAKOTA AVE	\$ 194,821	NONRES18	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 19,287.28	\$ -	\$ -	\$ -	\$ -	\$ 96.44	\$ 96.44
3982	603 S DAKOTA AVE	\$ 194,821	NONRES18	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 19,287.28	\$ -	\$ -	\$ -	\$ -	\$ 96.44	\$ 96.44
3964	601 S OREGON AV	\$ 153,356	NONRES18	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 15,182.24	\$ -	\$ -	\$ -	\$ -	\$ 75.91	\$ 75.91
3340	202 N OREGON AVE	\$ 53,166	NONRES21	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 4,944.44	\$ -	\$ -	\$ -	\$ -	\$ 24.72	\$ 24.72
3061	505 N ROME AVE	\$ 562,879	NONRES21	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 52,347.75	\$ -	\$ -	\$ -	\$ -	\$ 261.74	\$ 261.74
3985	603 S DAKOTA AVE	\$ 194,821	NONRES18	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 19,287.28	\$ -	\$ -	\$ -	\$ -	\$ 96.44	\$ 96.44
5510	1600 W PLATT ST	\$ 1,732,922	NONRES21	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 161,161.75	\$ -	\$ -	\$ -	\$ -	\$ 805.81	\$ 805.81

Total Sum of Expected Annual Damages \$ 577,321.00

$P = A \left[\frac{(1+i)^n - 1}{i(1+i)^n} \right]$	Present Value	
	n (years)	50
	i (yearly interest rate)	0.07
	A	\$ 577,321.00
	$(1+i)^n$	29.46
Present Value Road Flooding Cost		\$ 7,967,460.61

Unique ID	Address	Parcel (Strap) ID	Finished Floor Elev. (ft, NAVD88)	Square Footage	Bldg Value	Bldg Class	Prop. Mean Flood Depth (ft)	Prop. 5-yr/1-d Flood Depth (ft)	Prop. 10-yr/1-d Flood Depth (ft)	Prop. 25-yr/1-d Flood Depth (ft)	Prop. 50-yr/1-d Flood Depth (ft)	Prop. 100-yr/1-d Flood Depth (ft)	LOS
2938	1008 W CYPRESS ST	1829234Q6000033000010A	16.37	1,553	\$ 70,594	R11N	0.00	0.00	0.00	0.00	0.28	0.00	C
2951	907 N OREGON AV	1829234Q7000001000110A	18.25	1,158	\$ 37,192	R11N	0.00	0.00	0.00	0.00	0.00	0.23	B
3221	501 N HOWARD AV	1829234Q9000008000130A	20.11	7,682	\$ 655,076	NONRES8	0.00	0.00	0.00	0.00	0.00	0.37	B
3281	1528 W NORTH B ST	1829234S3000006000090A	17.41	12,440	\$ 341,468	NONRES9	0.00	0.00	0.00	0.00	0.29	0.39	B
3282	1529 W NORTH A ST	1829234S3000006000130A	17.16	12,087	\$ 286,053	NONRES21	0.00	0.00	0.00	0.00	0.24	0.38	B
3288	1601 W KENNEDY BV	1829234S3000010000010A	17.97	65,067	\$ 2,813,399	NONRES17	0.00	0.00	0.21	0.00	0.00	0.24	C
3760	1520 W KENNEDY BV	1829234SJ000006000010A	16.88	5,181	\$ 661,379	NONRES5	0.00	0.67	0.65	0.65	0.66	0.73	D
3836	509 S DAKOTA AV	1829234SP000005000050A	18.29	1,167	\$ 55,623	R11N	0.00	0.00	0.32	0.51	0.77	1.00	D
3892	602 S DAKOTA AV	1829234SP000011000200A	17.43	1,692	\$ 194,391	R12N	0.00	0.00	0.00	0.23	0.51	0.59	D
3914	603 S DAKOTA AV A 1	1829234SS000000000A10A	17.82	654	\$ 194,821	NONRES18	0.00	0.00	0.00	0.00	0.30	0.52	B
3915	603 S DAKOTA AV A 2	1829234SS000000000A20A	18.06	654	\$ 194,821	NONRES18	0.00	0.00	0.00	0.00	0.29	0.51	B
3916	603 S DAKOTA AV 3	1829234SS000000000A30A	17.76	652	\$ 194,821	NONRES18	0.00	0.00	0.00	0.00	0.00	0.28	B
3917	603 S DAKOTA AV A 4	1829234SS000000000A40A	17.84	651	\$ 194,821	NONRES18	0.00	0.00	0.00	0.00	0.00	0.35	B
3920	605 S DAKOTA AV 1	1829234SS000000000B10A	18.06	735	\$ 230,576	NONRES18	0.00	0.00	0.00	0.00	0.00	0.21	B
4174	406 S MELVILLE AV 1	1829235XG000000000010A	20.32	972	\$ 252,320	R12N	0.00	0.30	0.50	0.54	0.61	0.67	D
4238	1003 W CLEVELAND ST	18292365I000000010030A	17.20	1,876	\$ 267,089	NONRES15	0.00	0.00	0.00	0.00	0.00	0.36	B
4239	1005 W CLEVELAND ST	18292365I000000010050A	17.30	1,306	\$ 185,111	NONRES15	0.00	0.00	0.00	0.00	0.00	0.39	B
4240	1007 W CLEVELAND ST	18292365I000000010070A	17.56	3,548	\$ 485,587	NONRES15	0.00	0.00	0.73	0.73	1.20	1.43	C
4441	115 S PACKWOOD AV B	18292387O000000000190A	18.30	976	\$ 205,445	R12N	0.00	0.00	0.00	0.00	0.31	0.43	C

Unique ID	Address	Bldg Value	Bldg Class	Prop. Mean Flood Depth (ft)	Prop. 5-yr/1-d Flood Depth (ft)	Prop. 10-yr/1-d Flood Depth (ft)	Prop. 25-yr/1-d Flood Depth (ft)	Prop. 50-yr/1-d Flood Depth (ft)	Prop. 100-yr/1-d Flood Depth (ft)	Mean Structure Damage (%)	5-yr/1-d Structure Damage (%)	10-yr/1-d Structure Damage (%)	25-yr/1-d Structure Damage (%)	50-yr/1-d Structure Damage (%)	100-yr/1-d Structure Damage (%)	Mean Structure Damage Value	5-yr/1-d Structure Damage Value	10-yr/1-d Structure Damage Value	25-yr/1-d Structure Damage Value	50-yr/1-d Structure Damage Value	100-yr/1-d Structure Damage Value
2938	1008 W CYPRESS ST	\$ 70,594	R11N	0.00	0.00	0.00	0.00	0.28	0.00	0	0	0	0	18.8	0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 13,271.67
2951	907 N OREGON AV	\$ 37,192	R11N	0.00	0.00	0.00	0.00	0.00	0.23	0	0	0	0	0	18.8	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 6,992.10
3221	501 N HOWARD AV	\$ 655,076	NONRES8	0.00	0.00	0.00	0.00	0.00	0.37	0	0	0	0	0	5.04	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 33,015.83
3281	1528 W NORTH B ST	\$ 341,468	NONRES9	0.00	0.00	0.00	0.00	0.29	0.39	0	0	0	0	1.84	3.68	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 6,283.01
3282	1529 W NORTH A ST	\$ 286,053	NONRES21	0.00	0.00	0.00	0.00	0.24	0.38	0	0	0	0	2.04	4.08	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 5,835.48
3288	1601 W KENNEDY BV	\$ 2,813,399	NONRES17	0.00	0.00	0.21	0.00	0.00	0.24	0	0	2.1	0	0	2.1	\$ -	\$ -	\$ 59,081.38	\$ -	\$ -	\$ 59,081.38
3760	1520 W KENNEDY BV	\$ 661,379	NONRES5	0.00	0.67	0.65	0.65	0.66	0.73	0	8.64	8.64	8.64	8.64	11.52	\$ -	\$ 57,143.15	\$ 57,143.15	\$ 57,143.15	\$ 57,143.15	\$ 76,190.86
3836	509 S DAKOTA AV	\$ 55,623	R11N	0.00	0.00	0.32	0.51	0.77	1.00	0	0	19.6	20.4	21.2	22	\$ -	\$ -	\$ 10,902.11	\$ 11,347.09	\$ 11,792.08	\$ 12,237.06
3892	602 S DAKOTA AV	\$ 194,391	R12N	0.00	0.00	0.00	0.23	0.51	0.59	0	0	0	11.2	11.6	11.6	\$ -	\$ -	\$ -	\$ 21,771.79	\$ 22,549.36	\$ 22,549.36
3914	603 S DAKOTA AV A 1	\$ 194,821	NONRES18	0.00	0.00	0.00	0.00	0.30	0.52	0	0	0	0	4.4	6.6	\$ -	\$ -	\$ -	\$ -	\$ 8,572.12	\$ 12,858.19
3915	603 S DAKOTA AV A 2	\$ 194,821	NONRES18	0.00	0.00	0.00	0.00	0.29	0.51	0	0	0	0	2.2	6.6	\$ -	\$ -	\$ -	\$ -	\$ 4,286.06	\$ 12,858.19
3916	603 S DAKOTA AV 3	\$ 194,821	NONRES18	0.00	0.00	0.00	0.00	0.28	0.28	0	0	0	0	0	2.2	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 4,286.06
3917	603 S DAKOTA AV A 4	\$ 194,821	NONRES18	0.00	0.00	0.00	0.00	0.00	0.35	0	0	0	0	0	4.4	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 8,572.12
3920	605 S DAKOTA AV 1	\$ 230,576	NONRES18	0.00	0.00	0.00	0.00	0.00	0.21	0	0	0	0	0	2.2	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 5,072.67
4174	406 S MELVILLE AV 1	\$ 252,320	R12N	0.00	0.30	0.50	0.54	0.61	0.67	0	11.4	11.6	11.6	11.6	11.6	\$ -	\$ 28,764.48	\$ 29,269.12	\$ 29,269.12	\$ 29,269.12	\$ 29,269.12
4238	1003 W CLEVELAND ST	\$ 267,089	NONRES15	0.00	0.00	0.00	0.00	0.00	0.36	0	0	0	0	0	5.46	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 14,583.06
4239	1005 W CLEVELAND ST	\$ 185,111	NONRES15	0.00	0.00	0.00	0.00	0.00	0.39	0	0	0	0	0	5.46	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 10,107.06
4240	1007 W CLEVELAND ST	\$ 485,587	NONRES15	0.00	0.00	0.73	0.73	1.20	1.43	0	0	10.02	10.02	13.34	14.38	\$ -	\$ -	\$ 48,655.82	\$ 48,655.82	\$ 64,777.31	\$ 69,827.41
4441	115 S PACKWOOD AV B	\$ 205,445	R12N	0.00	0.00	0.00	0.00	0.31	0.43	0	0	0	0	11.4	11.4	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 23,420.73

Unique ID	Address	Bldg Value	Bldg Class	Prop. Mean Flood Depth (ft)	Prop. 5-yr/1-d Flood Depth (ft)	Prop. 10-yr/1-d Flood Depth (ft)	Prop. 25-yr/1-d Flood Depth (ft)	Prop. 50-yr/1-d Flood Depth (ft)	Prop. 100-yr/1-d Flood Depth (ft)	Mean Content Damage (%)	5-yr/1-d Content Damage (%)	10-yr/1-d Content Damage (%)	25-yr/1-d Content Damage (%)	50-yr/1-d Content Damage (%)	100-yr/1-d Content Damage (%)	Mean Content Damage Value	5-yr/1-d Content Damage Value	10-yr/1-d Content Damage Value	25-yr/1-d Content Damage Value	50-yr/1-d Content Damage Value	100-yr/1-d Content Damage Value
2938	1008 W CYPRESS ST	\$ 70,594	R11N	0	0.00	0.00	0.00	0.28	0.00	0	0	0	0	15	0	\$ -	\$ -	\$ -	\$ -	\$ 10,589.10	\$ -
2951	907 N OREGON AV	\$ 37,192	R11N	0	0.00	0.00	0.00	0.00	0.23	0	0	0	0	0	15	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 5,578.80
3221	501 N HOWARD AV	\$ 655,076	NONRES8	0	0.00	0.00	0.00	0.00	0.37	0	0	0	0	0	5.6	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 36,684.26
3281	1528 W NORTH B ST	\$ 341,468	NONRES9	0	0.00	0.00	0.00	0.29	0.39	0	0	0	0	2.8	5.6	\$ -	\$ -	\$ -	\$ -	\$ 9,561.10	\$ 19,122.21
3282	1529 W NORTH A ST	\$ 286,053	NONRES21	0	0.00	0.00	0.00	0.24	0.38	0	0	0	0	4.2	8.4	\$ -	\$ -	\$ -	\$ -	\$ 12,014.23	\$ 24,028.45
3288	1601 W KENNEDY BV	\$ 2,813,399	NONRES17	0	0.00	0.21	0.00	0.00	0.24	0	0	6.2	0	0	6.2	\$ -	\$ -	\$ 174,430.74	\$ -	\$ -	\$ 174,430.74
3760	1520 W KENNEDY BV	\$ 661,379	NONRES5	0	0.67	0.65	0.65	0.66	0.73	0	12.6	12.6	12.6	12.6	16.8	\$ -	\$ 83,333.75	\$ 83,333.75	\$ 83,333.75	\$ 83,333.75	\$ 111,111.67
3836	509 S DAKOTA AV	\$ 55,623	R11N	0	0.00	0.32	0.51	0.77	1.00	0	0	17	20	22	25	\$ -	\$ -	\$ 9,455.91	\$ 11,124.60	\$ 12,237.06	\$ 13,905.75
3892	602 S DAKOTA AV	\$ 194,391	R12N	0	0.00	0.00	0.23	0.51	0.59	0	0	0	9	10	10	\$ -	\$ -	\$ -	\$ 17,495.19	\$ 19,439.10	\$ 19,439.10
3914	603 S DAKOTA AV A 1	\$ 194,821	NONRES18	0	0.00	0.00	0.00	0.30	0.52	0	0	0	0	8.8	13.2	\$ -	\$ -	\$ -	\$ -	\$ 17,144.25	\$ 25,716.37
3915	603 S DAKOTA AV A 2	\$ 194,821	NONRES18	0	0.00	0.00	0.00	0.29	0.51	0	0	0	0	4.4	13.2	\$ -	\$ -	\$ -	\$ -	\$ 8,572.12	\$ 25,716.37
3916	603 S DAKOTA AV 3	\$ 194,821	NONRES18	0	0.00	0.00	0.00	0.00	0.28	0	0	0	0	0	4.4	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 8,572.12
3917	603 S DAKOTA AV A 4	\$ 194,821	NONRES18	0	0.00	0.00	0.00	0.00	0.35	0	0	0	0	0	8.8	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 17,144.25
3920	605 S DAKOTA AV 1	\$ 230,576	NONRES18	0	0.00	0.00	0.00	0.00	0.21	0	0	0	0	0	4.4	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 10,145.34
4174	406 S MELVILLE AV 1	\$ 252,320	R12N	0	0.30	0.50	0.54	0.61	0.67	0	9	10	10	10	10	\$ -	\$ 22,708.80	\$ 25,232.00	\$ 25,232.00	\$ 25,232.00	\$ 25,232.00
4238	1003 W CLEVELAND ST	\$ 267,089	NONRES15	0	0.00	0.00	0.00	0.00	0.36	0	0	0	0	0	8.6	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 22,969.65
4239	1005 W CLEVELAND ST	\$ 185,111	NONRES15	0	0.00	0.00	0.00	0.00	0.39	0	0	0	0	0	8.6	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 15,919.55
4240	1007 W CLEVELAND ST	\$ 485,587	NONRES15	0	0.00	0.73	0.73	1.20	1.43	0	0	16.2	16.2	22.8	25.6	\$ -	\$ -	\$ 78,665.09	\$ 78,665.09	\$ 110,713.84	\$ 124,310.27
4441	115 S PACKWOOD AV B	\$ 205,445	R12N	0	0.00	0.00	0.00	0.31	0.43	0	0	0	0	9	9	\$ -	\$ -	\$ -	\$ -	\$ 18,490.05	\$ 18,490.05

Unique ID	Address	Bldg Value	Bldg Class	Prop. Mean Flood Depth (ft)	Prop. 5-yr/1-d Flood Depth (ft)	Prop. 10-yr/1-d Flood Depth (ft)	Prop. 25-yr/1-d Flood Depth (ft)	Prop. 50-yr/1-d Flood Depth (ft)	Prop. 100-yr/1-d Flood Depth (ft)	Mean Total Damage Cost	5-yr/ 1-d Total Damage Cost	10-yr/ 1-d Total Damage Cost	25-yr/ 1-d Total Damage Cost	50-yr/ 1-d Total Damage Cost	100-yr/ 1-d Total Damage Cost
2938	1008 W CYPRESS ST	\$ 70,594	R11N	0.00	0.00	0.00	0.00	0.28	0.00	\$ -	\$ -	\$ -	\$ -	\$ 43,768.28	\$ -
2951	907 N OREGON AV	\$ 37,192	R11N	0.00	0.00	0.00	0.00	0.00	0.23	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 23,059.04
3221	501 N HOWARD AV	\$ 655,076	NONRES8	0.00	0.00	0.00	0.00	0.00	0.37	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 119,223.83
3281	1528 W NORTH B ST	\$ 341,468	NONRES9	0.00	0.00	0.00	0.00	0.29	0.39	\$ -	\$ -	\$ -	\$ -	\$ 25,268.63	\$ 50,537.26
3282	1529 W NORTH A ST	\$ 286,053	NONRES21	0.00	0.00	0.00	0.00	0.24	0.38	\$ -	\$ -	\$ -	\$ -	\$ 26,602.93	\$ 53,205.86
3288	1601 W KENNEDY BV	\$ 2,813,399	NONRES17	0.00	0.00	0.21	0.00	0.00	0.24	\$ -	\$ -	\$ 322,134.19	\$ -	\$ -	\$ 322,134.19
3760	1520 W KENNEDY BV	\$ 661,379	NONRES5	0.00	0.67	0.65	0.65	0.66	0.73	\$ -	\$ 226,191.62	\$ 226,191.62	\$ 226,191.62	\$ 226,191.62	\$ 301,588.82
3836	509 S DAKOTA AV	\$ 55,623	R11N	0.00	0.00	0.32	0.51	0.77	1.00	\$ -	\$ -	\$ 36,711.18	\$ 39,492.33	\$ 41,717.25	\$ 44,498.40
3892	602 S DAKOTA AV	\$ 194,391	R12N	0.00	0.00	0.00	0.23	0.51	0.59	\$ -	\$ -	\$ -	\$ 71,924.67	\$ 75,812.49	\$ 75,812.49
3914	603 S DAKOTA AV A 1	\$ 194,821	NONRES18	0.00	0.00	0.00	0.00	0.30	0.52	\$ -	\$ -	\$ -	\$ -	\$ 38,574.56	\$ 57,861.84
3915	603 S DAKOTA AV A 2	\$ 194,821	NONRES18	0.00	0.00	0.00	0.00	0.29	0.51	\$ -	\$ -	\$ -	\$ -	\$ 19,287.28	\$ 57,861.84
3916	603 S DAKOTA AV 3	\$ 194,821	NONRES18	0.00	0.00	0.00	0.00	0.00	0.28	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 19,287.28
3917	603 S DAKOTA AV A 4	\$ 194,821	NONRES18	0.00	0.00	0.00	0.00	0.00	0.35	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 38,574.56
3920	605 S DAKOTA AV 1	\$ 230,576	NONRES18	0.00	0.00	0.00	0.00	0.00	0.21	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 22,827.02
4174	406 S MELVILLE AV 1	\$ 252,320	R12N	0.00	0.30	0.50	0.54	0.61	0.67	\$ -	\$ 94,620.00	\$ 98,404.80	\$ 98,404.80	\$ 98,404.80	\$ 98,404.80
4238	1003 W CLEVELAND ST	\$ 267,089	NONRES15	0.00	0.00	0.00	0.00	0.00	0.36	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 59,427.30
4239	1005 W CLEVELAND ST	\$ 185,111	NONRES15	0.00	0.00	0.00	0.00	0.00	0.39	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 41,187.20
4240	1007 W CLEVELAND ST	\$ 485,587	NONRES15	0.00	0.00	0.73	0.73	1.20	1.43	\$ -	\$ -	\$ 200,304.64	\$ 200,304.64	\$ 272,657.10	\$ 298,878.80
4441	115 S PACKWOOD AV B	\$ 205,445	R12N	0.00	0.00	0.00	0.00	0.31	0.43	\$ -	\$ -	\$ -	\$ -	\$ 77,041.88	\$ 77,041.88

Unique ID	Address	Bldg Replacement Value	Bldg Class	Mean Total Damage Cost	5-yr/ 1-d Total Damage Cost	10-yr/ 1-d Total Damage Cost	25-yr/ 1-d Total Damage Cost	50-yr/ 1-d Total Damage Cost	100-yr/ 1-d Total Damage Cost	0.23 Interval x Avg. Cost for Interval	0.1 Interval x Avg. Cost for Interval	0.06 Interval x Avg. Cost for Interval	0.02 Interval x Avg. Cost for Interval	0.01 Interval x Avg. Cost for Interval	Total Expected Annual Damages
2938	1008 W CYPRESS ST	\$ 70,594	R11N	\$ -	\$ -	\$ -	\$ -	\$ 43,768.28	\$ -	\$ -	\$ -	\$ -	\$ 437.68	\$ 218.84	\$ 656.52
2951	907 N OREGON AV	\$ 37,192	R11N	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 23,059.04	\$ -	\$ -	\$ -	\$ -	\$ 115.30	\$ 115.30
3221	501 N HOWARD AV	\$ 655,076	NONRES8	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 119,223.83	\$ -	\$ -	\$ -	\$ -	\$ 596.12	\$ 596.12
3281	1528 W NORTH B ST	\$ 341,468	NONRES9	\$ -	\$ -	\$ -	\$ -	\$ 25,268.63	\$ 50,537.26	\$ -	\$ -	\$ -	\$ 252.69	\$ 379.03	\$ 631.72
3282	1529 W NORTH A ST	\$ 286,053	NONRES21	\$ -	\$ -	\$ -	\$ -	\$ 26,602.93	\$ 53,205.86	\$ -	\$ -	\$ -	\$ 266.03	\$ 399.04	\$ 665.07
3288	1601 W KENNEDY BV	\$ 2,813,399	NONRES17	\$ -	\$ -	\$ 322,134.19	\$ -	\$ -	\$ 322,134.19	\$ -	\$ 16,106.71	\$ 9,664.03	\$ -	\$ 1,610.67	\$ 27,381.41
3760	1520 W KENNEDY BV	\$ 661,379	NONRES5	\$ -	\$ 226,191.62	\$ 226,191.62	\$ 226,191.62	\$ 226,191.62	\$ 301,588.82	\$ 26,012.04	\$ 22,619.16	\$ 13,571.50	\$ 4,523.83	\$ 2,638.90	\$ 69,365.43
3836	509 S DAKOTA AV	\$ 55,623	R11N	\$ -	\$ -	\$ 36,711.18	\$ 39,492.33	\$ 41,717.25	\$ 44,498.40	\$ -	\$ 1,835.56	\$ 2,286.11	\$ 812.10	\$ 431.08	\$ 5,364.84
3892	602 S DAKOTA AV	\$ 194,391	R12N	\$ -	\$ -	\$ -	\$ 71,924.67	\$ 75,812.49	\$ 75,812.49	\$ -	\$ -	\$ 2,157.74	\$ 1,477.37	\$ 758.12	\$ 4,393.24
3914	603 S DAKOTA AV A 1	\$ 194,821	NONRES18	\$ -	\$ -	\$ -	\$ -	\$ 38,574.56	\$ 57,861.84	\$ -	\$ -	\$ -	\$ 385.75	\$ 482.18	\$ 867.93
3915	603 S DAKOTA AV A 2	\$ 194,821	NONRES18	\$ -	\$ -	\$ -	\$ -	\$ 19,287.28	\$ 57,861.84	\$ -	\$ -	\$ -	\$ 192.87	\$ 385.75	\$ 578.62
3916	603 S DAKOTA AV 3	\$ 194,821	NONRES18	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 19,287.28	\$ -	\$ -	\$ -	\$ -	\$ 96.44	\$ 96.44
3917	603 S DAKOTA AV A 4	\$ 194,821	NONRES18	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 38,574.56	\$ -	\$ -	\$ -	\$ -	\$ 192.87	\$ 192.87
3920	605 S DAKOTA AV 1	\$ 230,576	NONRES18	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 22,827.02	\$ -	\$ -	\$ -	\$ -	\$ 114.14	\$ 114.14
4174	406 S MELVILLE AV 1	\$ 252,320	R12N	\$ -	\$ 94,620.00	\$ 98,404.80	\$ 98,404.80	\$ 98,404.80	\$ 98,404.80	\$ 10,881.30	\$ 9,651.24	\$ 5,904.29	\$ 1,968.10	\$ 984.05	\$ 29,388.97
4238	1003 W CLEVELAND ST	\$ 267,089	NONRES15	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 59,427.30	\$ -	\$ -	\$ -	\$ -	\$ 297.14	\$ 297.14
4239	1005 W CLEVELAND ST	\$ 185,111	NONRES15	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 41,187.20	\$ -	\$ -	\$ -	\$ -	\$ 205.94	\$ 205.94
4240	1007 W CLEVELAND ST	\$ 485,587	NONRES15	\$ -	\$ -	\$ 200,304.64	\$ 200,304.64	\$ 272,657.10	\$ 298,878.80	\$ -	\$ 10,015.23	\$ 12,018.28	\$ 4,729.62	\$ 2,857.68	\$ 29,620.81
4441	115 S PACKWOOD AV B	\$ 205,445	R12N	\$ -	\$ -	\$ -	\$ -	\$ 77,041.88	\$ 77,041.88	\$ -	\$ -	\$ -	\$ 770.42	\$ 770.42	\$ 1,540.84

Total Sum of Expected Annual Damages \$ 172,073.32

$P = A \left[\frac{(1+i)^n - 1}{i(1+i)^n} \right]$	Present Value	
	n (years)	50
	i (yearly interest rate)	0.07
	A	\$ 172,073.32
	$(1+i)^n$	29.46
	Present Value Road Flooding Cost	\$ 2,374,740.19

Unique ID	Road Name	Road Class	No. of Lanes	Road Length (ft)	Crown Elev. (ft)	Node Name	Ex. Mean Flood Depth (ft)	Ex. 5-yr/1-d Flood Depth (ft)	Ex. 10-yr/1-d Flood Depth (ft)	Ex. 25-yr/1-d Flood Depth (ft)	Ex. 50-yr/1-d Flood Depth (ft)	Ex. 100-yr/1-d Flood Depth (ft)	LOS
183	N Armenia Ave	Minor Arterial	2	265	20.15	1020	0	0	0	0.62	0.74	0.75	D
199	N Armenia Ave	Minor Arterial	2	267	19.80	1020	0.54	0.72	0.76	0.85	0.96	1.08	E
201	N Armenia Ave	Minor Arterial	2	265	19.80	1020	0	0.73	0.78	0.87	0.93	1.15	E
397	N Boulevard	Minor Arterial	4	719	9.55	2181	0	0	0	0.54	0.86	1.08	D
717	N Fremont Ave	Local	2	398	16.98	2040	0.82	0.85	0.95	1	1.03	1.27	D
728	N Fremont Ave	Local	2	275	16.22	2030	1.24	1.24	1.24	1.24	1.64	1.95	D
730	N Fremont Ave	Local	2	265	16.01	2030	1.13	1.14	1.3	1.14	1.54	2.04	D
742	N Fremont Ave	Local	2	266	16.36	2010	1.31	1.37	1.38	1.38	1.78	2.12	D
1095	N Howard Ave	Minor Arterial	3	397	18.69	1050	0.79	0.86	0.83	0.91	0.94	0.91	E
1111	N Howard Ave	Minor Arterial	3	398	18.75	1041	0.67	0.69	0.84	0.89	0.92	1.01	E
1115	N Howard Ave	Minor Arterial	3	276	18.75	1041	0.66	0.66	0.9	0.95	0.98	1.02	E
1132	N Howard Ave	Minor Arterial	3	266	19.07	1030	0.86	0.89	0.91	0.92	0.97	1.05	E
1139	N Howard Ave	Minor Arterial	3	264	19.07	1030	1.04	1.2	1.22	1.35	1.41	1.48	E
1147	N Howard Ave	Minor Arterial	3	267	19.41	1030	0.67	0.77	0.81	1.36	1.4	1.42	E
1165	N Howard Ave	Minor Arterial	3	263	20.77	1030	0	0	0	0.61	0.84	0.95	D
1167	N Howard Ave	Minor Arterial	3	263	21.30	1030	0	0	0	0.55	0.85	1.06	D
1184	N Howard Ave	Minor Arterial	3	272	24.22	1030	0	0	0.73	0.79	0.79	0.82	D
1355	N Oregon Ave	Local	2	255	15.12	5010	0	0.72	0.77	1.16	1.5	1.65	B
1373	N Oregon Ave	Local	2	256	16.10	5010	0	0	0.59	0.91	1.31	1.69	B
1374	N Oregon Ave	Local	2	261	16.24	5010	0	0	0.54	0.75	1.05	1.3	B
1496	N Rome Ave	Local	2	401	15.78	2050	1.38	1.6	1.85	2.1	2.42	2.68	D
1499	N Rome Ave	Local	2	101	15.53	2050	1.63	1.9	2.05	2.37	2.77	3.09	D
1506	N Rome Ave	Local	2	268	15.35	2040	1.63	2.02	2.35	2.41	2.81	3.2	D
1521	N Rome Ave	Local	2	270	15.67	2030	1.32	1.71	2.07	2.1	2.5	2.89	D
1525	N Rome Ave	Local	2	271	15.71	2030	1.23	1.62	1.88	2.02	2.41	2.8	D
1534	N Rome Ave	Local	2	270	16.98	2020	0	0.72	1.07	1.16	1.55	1.98	B
1689	N Tampania Ave	Local	2	266	23.74	1020	0.66	0.78	0.68	0.79	0.79	0.69	C
1728	N Westland Ave	Local	2	400	17.75	1050	0.89	1.01	1.17	1.07	1.08	1.18	D
1746	N Westland Ave	Local	2	397	17.82	1041	1.71	1.72	1.72	1.72	1.72	1.72	D
1748	N Westland Ave	Local	2	542	17.82	1041	1.43	1.52	1.59	1.66	1.75	1.79	D
1934	S Albany Ave	Local	2	521	17.24	3011	0	0.56	0.8	0.89	0.99	1.2	B
2166	S Dakota Ave	Local	2	321	14.14	7010	0	0	0.87	1.27	1.27	1.66	B
2169	S Dakota Ave	Local	2	569	14.71	7010	0	0.59	0.98	1.34	1.38	1.77	B
2188	S Dakota Ave	Local	2	528	16.04	5020	0	0	0.75	0.87	1.26	1.83	B
2320	S Edison Ave	Local	1	530	16.08	6020	0	0	0	0.82	1.19	1.24	B
2339	S Fremont Ave	Local	2	513	16.31	6020	0	0	0	0.84	1.14	1.22	B
2343	S Fremont Ave	Local	2	521	16.26	6020	0	0	0.88	1.01	1.3	1.28	B

Unique ID	Road Name	Road Class	No. of Lanes	Road Length (ft)	Crown Elev. (ft)	Node Name	Ex. Mean Flood Depth (ft)	Ex. 5-yr/1-d Flood Depth (ft)	Ex. 10-yr/1-d Flood Depth (ft)	Ex. 25-yr/1-d Flood Depth (ft)	Ex. 50-yr/1-d Flood Depth (ft)	Ex. 100-yr/1-d Flood Depth (ft)	LOS
2372	S Fremont Ave	Local	2	299	16.56	6020	1.21	1.62	1.78	1.84	1.6	1.6	D
2376	S Fremont Ave	Local	2	447	17.05	6020	1.48	1.7	1.65	1.82	1.87	1.74	D
2551	S Melville Ave	Local	2	513	16.19	6020	0	0.63	1.23	1.43	1.7	1.82	B
2552	S Melville Ave	Local	2	521	16.20	6020	0	0.89	1.22	1.68	1.87	1.96	C
2582	S Melville Ave	Local	2	299	16.81	6020	0.86	0.95	1.15	1.13	1.21	1.34	D
2583	S Melville Ave	Local	2	448	16.87	6020	1.23	1.3	1.44	1.52	1.6	1.59	D
2803	S Oregon Ave	Local	2	529	15.00	6020	0.63	1.02	1.48	1.81	2.2	2.27	C
2892	S Packwood Ave	Local	2	513	15.54	6020	0	0	0.78	0.82	1.15	1.51	B
2893	S Packwood Ave	Local	2	521	15.60	6020	0	0.78	1.1	1.18	1.55	1.79	C
3097	S Westland Ave	Local	2	512	17.60	6020	0	0.54	0.86	0.73	0.96	1.23	B
3099	S Westland Ave	Local	2	522	17.70	6020	0	0.8	0.88	0.88	1.19	1.26	C
3330	W Azele St	Local	2	166	16.40	6020	1.3	1.45	1.51	1.59	1.68	1.69	D
3337	W Azele St	Local	2	334	16.57	6020	1.24	1.66	2.05	2	1.63	1.76	D
3354	W Azele St	Local	2	328	16.95	6020	0.63	1.28	1.28	1.52	1.67	1.61	C
3606	W Carmen St	Local	2	670	19.59	6020	0.96	1.05	1.12	1.59	1.67	1.69	D
3837	W Cass St	Minor Arterial	2	671	19.53	1030	0	0	0	0.6	0.62	0.99	D
3980	W Cleveland St	Minor Arterial	3	331	16.55	6020	0	0	0	0.58	0.69	0.75	D
3981	W Cleveland St	Minor Arterial	3	330	16.26	6020	0	0	0.61	0.84	0.98	1.07	D
4031	W Cleveland St	Minor Arterial	3	665	17.34	5021	0	0	0.52	0.62	0.62	0.52	D
4086	W Cleveland St	Minor Arterial	3	338	15.80	3020	0.61	1	1.4	1.53	1.83	2.18	E
4088	W Cleveland St	Minor Arterial	3	330	15.82	3020	0.54	0.95	1.1	1.32	1.65	1.82	E
4113	W Cleveland St	Minor Arterial	3	333	16.60	3020	0	1.05	1.46	1.85	2.13	2.25	E
4114	W Cleveland St	Minor Arterial	3	334	16.72	3020	0	0.94	1.31	1.78	2.01	1.99	E
4140	W Cleveland St	Minor Arterial	3	335	17.63	3010	0	0.78	0.87	0.87	1.2	1.27	E
4141	W Cleveland St	Minor Arterial	3	335	17.65	3010	0.52	0.82	0.84	0.92	1.23	1.23	E
4243	W Cypress St	Collector - Minor	2	255	9.21	2193	0	0	0	0.5	1.2	1.33	B
4267	W Cypress St	Collector - Minor	2	143	11.55	2240	0	0	0.61	0.68	1.06	1.09	B
4268	W Cypress St	Collector - Minor	2	120	11.64	2240	0	0	0.55	0.61	1	1.03	B
4292	W Cypress St	Collector - Minor	2	278	14.07	2250	0	0.59	1.18	1.33	1.51	1.61	C
4295	W Cypress St	Collector - Minor	2	675	14.16	2250	0	0.53	1.06	1.2	1.42	1.56	C
4321	W Cypress St	Collector - Minor	2	670	16.05	2255	0.63	1.02	1.31	1.36	1.47	1.61	D
4394	W Cypress St	Collector - Minor	2	671	22.52	2265	0	0	0	0.61	1	1.07	B
4481	W Cypress St	Collector - Minor	2	313	28.17	2285	0.85	0.87	0.81	0.91	0.95	0.89	E
4507	W Cypress St	Collector - Minor	2	656	28.88	2290	0.96	0.97	0.97	0.97	0.97	0.97	E
4508	W Cypress St	Collector - Minor	2	204	28.96	2290	0.88	0.88	0.88	0.88	0.88	0.88	E
4651	W De Leon St	Minor Arterial	2	330	14.64	7010	0	0	0.57	0.82	0.82	1.35	D
4653	W De Leon St	Minor Arterial	2	333	14.31	7010	0	0	0.84	1.25	1.25	1.62	D

Unique ID	Road Name	Road Class	No. of Lanes	Road Length (ft)	Crown Elev. (ft)	Node Name	Ex. Mean Flood Depth (ft)	Ex. 5-yr/1-d Flood Depth (ft)	Ex. 10-yr/1-d Flood Depth (ft)	Ex. 25-yr/1-d Flood Depth (ft)	Ex. 50-yr/1-d Flood Depth (ft)	Ex. 100-yr/1-d Flood Depth (ft)	LOS
4720	W Fig St	Local	2	668	15.67	2030	1.22	1.62	2.04	2.01	2.4	2.84	D
4722	W Fig St	Local	2	670	15.29	2030	1.32	1.68	1.85	2.11	2.5	2.83	D
4747	W Fig St	Local	2	668	16.07	2030	1.27	1.27	1.27	1.27	1.66	2.06	D
5124	W Gray St	Local	2	670	16.83	2020	0.52	0.74	1.22	1.2	1.6	2.11	B
5135	W Gray St	Local	2	667	17.09	2010	0.72	0.78	0.82	1.1	1.49	1.77	C
5151	W Gray St	Local	2	669	16.06	2010	1.19	1.27	1.31	1.31	1.66	1.91	D
5204	W Gray St	Local	2	335	19.03	1030	0.6	0.67	0.78	0.73	0.75	0.85	B
5231	W Gray St	Local	2	669	19.87	1020	0.53	0.74	0.79	0.91	0.97	1.16	B
5234	W Gray St	Local	2	440	19.50	1020	0.54	0.93	0.9	0.93	1.16	1.3	C
5501	W Kennedy Blvd	Principal Arterial	4	265	17.76	6010	0	0	0	0	0.53	0.56	C
5503	W Kennedy Blvd	Principal Arterial	4	67	17.59	6010	0	0	0	0.58	0.61	0.64	D
5507	W Kennedy Blvd	Principal Arterial	4	195	17.72	6010	0	0	0	0	0	0.57	B
5557	W Kennedy Blvd	Principal Arterial	4	343	17.42	5010	0	0	0	0.65	1.03	1.37	D
5564	W Kennedy Blvd	Principal Arterial	4	317	16.04	5010	0	1.16	1.55	1.82	2.21	2.34	E
5576	W Kennedy Blvd	Principal Arterial	4	337	15.86	5010	0	1.19	1.5	1.71	2.04	2.37	E
5585	W Kennedy Blvd	Principal Arterial	4	328	16.65	5010	0	0.6	0.64	1.01	1.35	1.56	E
5608	W Kennedy Blvd	Principal Arterial	4	334	16.85	2070	0	0.69	1.08	1.08	1.47	1.87	E
5613	W Kennedy Blvd	Principal Arterial	4	334	16.70	2070	0.56	0.72	0.87	0.94	1.18	1.47	E
5636	W Kennedy Blvd	Principal Arterial	4	334	17.69	2070	0	0	0.76	0.7	0.92	1.05	D
5648	W Kennedy Blvd	Principal Arterial	4	334	18.33	2070	0	0	0	0.69	0.73	0.75	D
5664	W Kennedy Blvd	Principal Arterial	4	335	19.34	1050	0.56	0	0.65	0.65	0.66	0.68	E
5667	W Kennedy Blvd	Principal Arterial	4	333	19.34	1050	0.5	0	0	0.53	0.56	0.58	E
6181	W North A St	Local	2	669	15.74	2050	1.37	1.6	1.87	2.08	2.47	2.79	D
6246	W North A St	Local	2	335	17.84	1050	1.09	1.18	1.06	1.25	1.29	1.18	D
6249	W North A St	Local	2	333	17.78	1050	0.97	1.04	1.18	1.1	1.15	1.32	D
6404	W North A St	Local	2	659	16.56	5010	0	0	0	0.75	1.06	1.22	B
6433	W North A St	Local	2	669	15.06	2050	1.82	2.21	2.28	2.61	3	3.28	D
6558	W North B St	Local	2	669	15.53	2040	1.581795	1.81	2.08	2.25	2.64	2.96	D
6561	W North B St	Local	2	668	15.42	2040	1.27	1.48	1.83	2.02	2.41	2.77	D
6587	W North B St	Local	2	669	16.94	2040	0.78	0.82	0.84	0.85	0.87	1.2	D
6626	W North B St	Local	2	335	17.93	1041	1.5	1.54	1.6	1.63	1.63	1.63	D
6627	W North B St	Local	2	334	17.86	1041	1.44	1.47	1.52	1.56	1.58	1.58	D
6869	W Platt St	Minor Arterial	3	340	16.27	3050	0	0.52	0.53	0.53	0.89	1.03	E
6874	W Platt St	Minor Arterial	3	323	16.23	3050	0.6	0.6	0.66	0.62	0.99	1.42	E
6896	W Platt St	Minor Arterial	3	334	17.91	3011	0	0	0.57	0.58	0.66	0.73	D
6900	W Platt St	Minor Arterial	3	335	18.34	3011	0	0	0.58	0	0	0.61	D
7192	N Tampania Ave	Local	2	254	28.24	2285	0.57	0.59	0.84	0.63	0.67	0.93	B

Unique ID	Road Name	Road Class	No. of Lanes	Road Length (ft)	Crown Elev. (ft)	Node Name	Ex. Mean Flood Depth (ft)	Ex. 5-yr/1-d Flood Depth (ft)	Ex. 10-yr/1-d Flood Depth (ft)	Ex. 25-yr/1-d Flood Depth (ft)	Ex. 50-yr/1-d Flood Depth (ft)	Ex. 100-yr/1-d Flood Depth (ft)	LOS
7210	N Willow Ave	Collector	2	261	14.04	2250	0	0.52	1.03	1.31	1.37	1.71	C
7211	N Willow Ave	Collector	2	271	14.22	2255	0	0	0.85	1	1.17	1.36	C
7212	N Oregon Ave	Local	2	261	15.75	2255	0	0.8	1.13	1.19	1.51	1.52	C

Unique ID	Road Name	Road Class	No. of Lanes	Road Length (ft)	Cost of Road Repair
183	N Armenia Ave	Minor Arterial	2	265	\$ 116,600
199	N Armenia Ave	Minor Arterial	2	267	\$ 117,480
201	N Armenia Ave	Minor Arterial	2	265	\$ 116,600
397	N Boulevard	Minor Arterial	4	719	\$ 632,720
717	N Fremont Ave	Local	2	398	\$ 47,760
728	N Fremont Ave	Local	2	275	\$ 33,000
730	N Fremont Ave	Local	2	265	\$ 31,800
742	N Fremont Ave	Local	2	266	\$ 31,920
1095	N Howard Ave	Minor Arterial	3	397	\$ 262,020
1111	N Howard Ave	Minor Arterial	3	398	\$ 262,680
1115	N Howard Ave	Minor Arterial	3	276	\$ 182,160
1132	N Howard Ave	Minor Arterial	3	266	\$ 175,560
1139	N Howard Ave	Minor Arterial	3	264	\$ 174,240
1147	N Howard Ave	Minor Arterial	3	267	\$ 176,220
1165	N Howard Ave	Minor Arterial	3	263	\$ 173,580
1167	N Howard Ave	Minor Arterial	3	263	\$ 173,580
1184	N Howard Ave	Minor Arterial	3	272	\$ 179,520
1355	N Oregon Ave	Local	2	255	\$ 30,600
1373	N Oregon Ave	Local	2	256	\$ 30,720
1374	N Oregon Ave	Local	2	261	\$ 31,320
1496	N Rome Ave	Local	2	401	\$ 48,120
1499	N Rome Ave	Local	2	101	\$ 12,120
1506	N Rome Ave	Local	2	268	\$ 32,160
1521	N Rome Ave	Local	2	270	\$ 32,400
1525	N Rome Ave	Local	2	271	\$ 32,520
1534	N Rome Ave	Local	2	270	\$ 32,400
1689	N Tampania Ave	Local	2	266	\$ 31,920
1728	N Westland Ave	Local	2	400	\$ 48,000
1746	N Westland Ave	Local	2	397	\$ 47,640
1748	N Westland Ave	Local	2	542	\$ 65,040
1934	S Albany Ave	Local	2	521	\$ 62,520
2166	S Dakota Ave	Local	2	321	\$ 38,520
2169	S Dakota Ave	Local	2	569	\$ 68,280
2188	S Dakota Ave	Local	2	528	\$ 63,360
2320	S Edison Ave	Local	1	530	\$ 31,800
2339	S Fremont Ave	Local	2	513	\$ 61,560
2343	S Fremont Ave	Local	2	521	\$ 62,520
2372	S Fremont Ave	Local	2	299	\$ 35,880
2376	S Fremont Ave	Local	2	447	\$ 53,640
2551	S Melville Ave	Local	2	513	\$ 61,560
2552	S Melville Ave	Local	2	521	\$ 62,520
2582	S Melville Ave	Local	2	299	\$ 35,880
2583	S Melville Ave	Local	2	448	\$ 53,760
2803	S Oregon Ave	Local	2	529	\$ 63,480

Unique ID	Road Name	Road Class	No. of Lanes	Road Length (ft)	Cost of Road Repair
2892	S Packwood Ave	Local	2	513	\$ 61,560
2893	S Packwood Ave	Local	2	521	\$ 62,520
3097	S Westland Ave	Local	2	512	\$ 61,440
3099	S Westland Ave	Local	2	522	\$ 62,640
3330	W Azeele St	Local	2	166	\$ 19,920
3337	W Azeele St	Local	2	334	\$ 40,080
3354	W Azeele St	Local	2	328	\$ 39,360
3606	W Carmen St	Local	2	670	\$ 80,400
3837	W Cass St	Minor Arterial	2	671	\$ 295,240
3980	W Cleveland St	Minor Arterial	3	331	\$ 218,460
3981	W Cleveland St	Minor Arterial	3	330	\$ 217,800
4031	W Cleveland St	Minor Arterial	3	665	\$ 438,900
4086	W Cleveland St	Minor Arterial	3	338	\$ 223,080
4088	W Cleveland St	Minor Arterial	3	330	\$ 217,800
4113	W Cleveland St	Minor Arterial	3	333	\$ 219,780
4114	W Cleveland St	Minor Arterial	3	334	\$ 220,440
4140	W Cleveland St	Minor Arterial	3	335	\$ 221,100
4141	W Cleveland St	Minor Arterial	3	335	\$ 221,100
4243	W Cypress St	Collector - Minor	2	255	\$ 58,650
4267	W Cypress St	Collector - Minor	2	143	\$ 32,890
4268	W Cypress St	Collector - Minor	2	120	\$ 27,600
4292	W Cypress St	Collector - Minor	2	278	\$ 63,940
4295	W Cypress St	Collector - Minor	2	675	\$ 155,250
4321	W Cypress St	Collector - Minor	2	670	\$ 154,100
4394	W Cypress St	Collector - Minor	2	671	\$ 154,330
4481	W Cypress St	Collector - Minor	2	313	\$ 71,990
4507	W Cypress St	Collector - Minor	2	656	\$ 150,880
4508	W Cypress St	Collector - Minor	2	204	\$ 46,920
4651	W De Leon St	Minor Arterial	2	330	\$ 145,200
4653	W De Leon St	Minor Arterial	2	333	\$ 146,520
4720	W Fig St	Local	2	668	\$ 80,160
4722	W Fig St	Local	2	670	\$ 80,400
4747	W Fig St	Local	2	668	\$ 80,160
5124	W Gray St	Local	2	670	\$ 80,400
5135	W Gray St	Local	2	667	\$ 80,040
5151	W Gray St	Local	2	669	\$ 80,280
5204	W Gray St	Local	2	335	\$ 40,200
5231	W Gray St	Local	2	669	\$ 80,280
5234	W Gray St	Local	2	440	\$ 52,800
5501	W Kennedy Blvd	Principal Arterial	4	265	\$ 233,200
5503	W Kennedy Blvd	Principal Arterial	4	67	\$ 58,960
5507	W Kennedy Blvd	Principal Arterial	4	195	\$ 171,600
5557	W Kennedy Blvd	Principal Arterial	4	343	\$ 301,840
5564	W Kennedy Blvd	Principal Arterial	4	317	\$ 278,960

Unique ID	Road Name	Road Class	No. of Lanes	Road Length (ft)	Cost of Road Repair
5576	W Kennedy Blvd	Principal Arterial	4	337	\$ 296,560
5585	W Kennedy Blvd	Principal Arterial	4	328	\$ 288,640
5608	W Kennedy Blvd	Principal Arterial	4	334	\$ 293,920
5613	W Kennedy Blvd	Principal Arterial	4	334	\$ 293,920
5636	W Kennedy Blvd	Principal Arterial	4	334	\$ 293,920
5648	W Kennedy Blvd	Principal Arterial	4	334	\$ 293,920
5664	W Kennedy Blvd	Principal Arterial	4	335	\$ 294,800
5667	W Kennedy Blvd	Principal Arterial	4	333	\$ 293,040
6181	W North A St	Local	2	669	\$ 80,280
6246	W North A St	Local	2	335	\$ 40,200
6249	W North A St	Local	2	333	\$ 39,960
6404	W North A St	Local	2	659	\$ 79,080
6433	W North A St	Local	2	669	\$ 80,280
6558	W North B St	Local	2	669	\$ 80,280
6561	W North B St	Local	2	668	\$ 80,160
6587	W North B St	Local	2	669	\$ 80,280
6626	W North B St	Local	2	335	\$ 40,200
6627	W North B St	Local	2	334	\$ 40,080
6869	W Platt St	Minor Arterial	3	340	\$ 224,400
6874	W Platt St	Minor Arterial	3	323	\$ 213,180
6896	W Platt St	Minor Arterial	3	334	\$ 220,440
6900	W Platt St	Minor Arterial	3	335	\$ 221,100
7192	N Tampania Ave	Local	2	254	\$ 30,480
7210	N Willow Ave	Collector	2	261	\$ 60,030
7211	N Willow Ave	Collector	2	271	\$ 62,330
7212	N Oregon Ave	Local	2	261	\$ 31,320

Road Class	Cost per Lane-Foot
Principal Arterial	220
Minor Arterial	220
Collector	115
Collector - Minor	115
Local	60

Unique ID	Road Name	Road Class	No. of Lanes	Road Length (ft)	Node Name	Ex. Mean Flood Depth (ft)	Ex. 5-yr/1-d Flood Depth (ft)	Ex. 10-yr/1-d Flood Depth (ft)	Ex. 25-yr/1-d Flood Depth (ft)	Ex. 50-yr/1-d Flood Depth (ft)	Ex. 100-yr/1-d Flood Depth (ft)	Ex. Mean Delay Cost	Ex. 5-yr/1-d Delay Cost	Ex. 10-yr/1-d Delay Cost	Ex. 25-yr/1-d Delay Cost	Ex. 50-yr/1-d Delay Cost	Ex. 100-yr/1-d Delay Cost
4267	W Cypress St	Collector - Minor	2	143	2240	0	0	0.61	0.68	1.06	1.09	\$ -	\$ -	\$ 7,998	\$ 9,388	\$ 13,213	\$ 16,343
4268	W Cypress St	Collector - Minor	2	120	2240	0	0	0.55	0.61	1	1.03	\$ -	\$ -	\$ 7,998	\$ 9,388	\$ 13,213	\$ 16,343
4292	W Cypress St	Collector - Minor	2	278	2250	0	0.59	1.18	1.33	1.51	1.61	\$ -	\$ 348	\$ 1,043	\$ 1,391	\$ 1,391	\$ 2,086
4295	W Cypress St	Collector - Minor	2	675	2250	0	0.53	1.06	1.2	1.42	1.56	\$ -	\$ 348	\$ 1,043	\$ 1,391	\$ 1,391	\$ 2,086
4321	W Cypress St	Collector - Minor	2	670	2255	0.63	1.02	1.31	1.36	1.47	1.61	\$ -	\$ 348	\$ 1,043	\$ 1,043	\$ 1,391	\$ 1,739
4394	W Cypress St	Collector - Minor	2	671	2265	0	0	0	0.61	1	1.07	\$ -	\$ -	\$ -	\$ 9,388	\$ 13,213	\$ 16,343
4481	W Cypress St	Collector - Minor	2	313	2285	0.85	0.87	0.81	0.91	0.95	0.89	\$ 54,592	\$ 55,983	\$ 57,374	\$ 58,417	\$ 59,808	\$ 60,504
4507	W Cypress St	Collector - Minor	2	656	2290	0.96	0.97	0.97	0.97	0.97	0.97	\$ 36,163	\$ 36,511	\$ 37,554	\$ 38,249	\$ 39,640	\$ 41,379
4508	W Cypress St	Collector - Minor	2	204	2290	0.88	0.88	0.88	0.88	0.88	0.88	\$ 36,163	\$ 36,511	\$ 37,554	\$ 38,249	\$ 39,640	\$ 41,379
4651	W De Leon St	Minor Arterial	2	330	7010	0	0	0.57	0.82	0.82	1.35	\$ -	\$ -	\$ 9,935	\$ 9,935	\$ 9,935	\$ 14,902
4653	W De Leon St	Minor Arterial	2	333	7010	0	0	0.84	1.25	1.25	1.62	\$ -	\$ -	\$ 9,935	\$ 9,935	\$ 9,935	\$ 14,902
4720	W Fig St	Local	2	668	2030	1.22	1.62	2.04	2.01	2.4	2.84	\$ 927	\$ 1,192	\$ 1,523	\$ 1,788	\$ 2,451	\$ 3,113
4722	W Fig St	Local	2	670	2030	1.32	1.68	1.85	2.11	2.5	2.83	\$ 927	\$ 1,192	\$ 1,523	\$ 1,788	\$ 2,451	\$ 3,113
4747	W Fig St	Local	2	668	2030	1.27	1.27	1.27	1.27	1.66	2.06	\$ 927	\$ 1,192	\$ 1,523	\$ 1,788	\$ 2,451	\$ 3,113
5124	W Gray St	Local	2	670	2020	0.52	0.74	1.22	1.2	1.6	2.11	\$ -	\$ 397	\$ 795	\$ 1,060	\$ 1,656	\$ 2,252
5135	W Gray St	Local	2	667	2010	0.72	0.78	0.82	1.1	1.49	1.77	\$ 927	\$ 1,258	\$ 1,523	\$ 1,855	\$ 2,517	\$ 3,245
5151	W Gray St	Local	2	669	2010	1.19	1.27	1.31	1.31	1.66	1.91	\$ 927	\$ 1,258	\$ 1,523	\$ 1,855	\$ 2,517	\$ 3,245
5204	W Gray St	Local	2	335	1030	0.6	0.67	0.78	0.73	0.75	0.85	\$ 265	\$ 265	\$ 331	\$ 530	\$ 662	\$ 662
5231	W Gray St	Local	2	669	1020	0.53	0.74	0.79	0.91	0.97	1.16	\$ 132	\$ 199	\$ 265	\$ 331	\$ 397	\$ 464
5234	W Gray St	Local	2	440	1020	0.54	0.93	0.9	0.93	1.16	1.3	\$ 132	\$ 199	\$ 265	\$ 331	\$ 397	\$ 464
5501	W Kennedy Blvd	Principal Arterial	4	265	6010	0	0	0	0	0.53	0.56	\$ -	\$ -	\$ -	\$ -	\$ 11,922	\$ 15,896
5503	W Kennedy Blvd	Principal Arterial	4	67	6010	0	0	0	0.58	0.61	0.64	\$ -	\$ -	\$ -	\$ 7,948	\$ 11,922	\$ 15,896
5507	W Kennedy Blvd	Principal Arterial	4	195	6010	0	0	0	0	0	0.57	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 15,896
5557	W Kennedy Blvd	Principal Arterial	4	343	5010	0	0	0	0.65	1.03	1.37	\$ -	\$ -	\$ -	\$ 67,557	\$ 103,323	\$ 139,089
5564	W Kennedy Blvd	Principal Arterial	4	317	5010	0	1.16	1.55	1.82	2.21	2.34	\$ -	\$ 7,948	\$ 51,661	\$ 67,557	\$ 103,323	\$ 139,089
5576	W Kennedy Blvd	Principal Arterial	4	337	5010	0	1.19	1.5	1.71	2.04	2.37	\$ -	\$ 7,948	\$ 51,661	\$ 67,557	\$ 103,323	\$ 139,089
5585	W Kennedy Blvd	Principal Arterial	4	328	5010	0	0.6	0.64	1.01	1.35	1.56	\$ -	\$ 7,948	\$ 51,661	\$ 67,557	\$ 103,323	\$ 139,089
5608	W Kennedy Blvd	Principal Arterial	4	334	2070	0	0.69	1.08	1.08	1.47	1.87	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 3,974
5613	W Kennedy Blvd	Principal Arterial	4	334	2070	0.56	0.72	0.87	0.94	1.18	1.47	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 3,974
5636	W Kennedy Blvd	Principal Arterial	4	334	2070	0	0	0.76	0.7	0.92	1.05	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 3,974
5648	W Kennedy Blvd	Principal Arterial	4	334	2070	0	0	0	0.69	0.73	0.75	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 3,974
5664	W Kennedy Blvd	Principal Arterial	4	335	1050	0.56	0	0.65	0.65	0.66	0.68	\$ 23,844	\$ -	\$ 43,714	\$ 51,661	\$ 79,479	\$ 111,271
5667	W Kennedy Blvd	Principal Arterial	4	333	1050	0.5	0	0	0.53	0.56	0.58	\$ 23,844	\$ -	\$ -	\$ 51,661	\$ 79,479	\$ 111,271
6181	W North A St	Local	2	669	2050	1.37	1.6	1.87	2.08	2.47	2.79	\$ 993	\$ 1,258	\$ 1,523	\$ 1,788	\$ 2,451	\$ 3,047
6246	W North A St	Local	2	335	1050	1.09	1.18	1.06	1.25	1.29	1.18	\$ 397	\$ 397	\$ 729	\$ 861	\$ 1,325	\$ 1,855
6249	W North A St	Local	2	333	1050	0.97	1.04	1.18	1.1	1.15	1.32	\$ 397	\$ 397	\$ 729	\$ 861	\$ 1,325	\$ 1,855
6404	W North A St	Local	2	659	5010	0	0	0	0.75	1.06	1.22	\$ -	\$ -	\$ -	\$ 1,126	\$ 1,722	\$ 2,318
6433	W North A St	Local	2	669	2050	1.82	2.21	2.28	2.61	3	3.28	\$ 993	\$ 1,258	\$ 1,523	\$ 1,788	\$ 2,451	\$ 3,047
6558	W North B St	Local	2	669	2040	1.581795	1.81	2.08	2.25	2.64	2.96	\$ 993	\$ 1,258	\$ 1,523	\$ 1,855	\$ 2,517	\$ 3,113
6561	W North B St	Local	2	668	2040	1.27	1.48	1.83	2.02	2.41	2.77	\$ 993	\$ 1,258	\$ 1,523	\$ 1,855	\$ 2,517	\$ 3,113
6587	W North B St	Local	2	669	2040	0.78	0.82	0.84	0.85	0.87	1.2	\$ 993	\$ 1,258	\$ 1,523	\$ 1,855	\$ 2,517	\$ 3,113
6626	W North B St	Local	2	335	1041	1.5	1.54	1.6	1.63	1.63	1.63	\$ 596	\$ 662	\$ 927	\$ 1,060	\$ 1,457	\$ 1,987
6627	W North B St	Local	2	334	1041	1.44	1.47	1.52	1.56	1.58	1.58	\$ 596	\$ 662	\$ 927	\$ 1,060	\$ 1,457	\$ 1,987
6869	W Platt St	Minor Arterial	3	340	3050	0	0.52	0.53	0.53	0.89	1.03	\$ -	\$ 22,354	\$ 37,256	\$ 49,674	\$ 72,028	\$ 94,382
6874	W Platt St	Minor Arterial	3	323	3050	0.6	0.6	0.66	0.62	0.99	1.42	\$ 17,386	\$ 22,354	\$ 37,256	\$ 49,674	\$ 72,028	\$ 94,382
6896	W Platt St	Minor Arterial	3	334	3011	0	0	0.57	0.58	0.66	0.73	\$ -	\$ -	\$ 19,870	\$ 22,354	\$ 37,256	\$ 57,126
6900	W Platt St	Minor Arterial	3	335	3011	0	0	0.58	0	0	0.61	\$ -	\$ -	\$ 19,870	\$ -	\$ -	\$ 57,126
7192	N Tampania Ave	Local	2	254	2285	0.57	0.59	0.84	0.63	0.67	0.93	\$ 10,399	\$ 10,663	\$ 10,928	\$ 11,127	\$ 11,392	\$ 11,524
7210	N Willow Ave	Collector	2	261	2250	0	0.52	1.03	1.31	1.37	1.71	\$ -	\$ 927	\$ 2,782	\$ 3,709	\$ 3,709	\$ 5,564

Unique ID	Road Name	Road Class	No. of Lanes	Road Length (ft)	Node Name	Ex. Mean Flood Depth (ft)	Ex. 5-yr/1-d Flood Depth (ft)	Ex. 10-yr/1-d Flood Depth (ft)	Ex. 25-yr/1-d Flood Depth (ft)	Ex. 50-yr/1-d Flood Depth (ft)	Ex. 100-yr/1-d Flood Depth (ft)	Ex. Mean Delay Cost	Ex. 5-yr/1-d Delay Cost	Ex. 10-yr/1-d Delay Cost	Ex. 25-yr/1-d Delay Cost	Ex. 50-yr/1-d Delay Cost	Ex. 100-yr/1-d Delay Cost
7211	N Willow Ave	Collector	2	271	2255	0	0	0.85	1	1.17	1.36	\$ -	\$ -	\$ 2,782	\$ 2,782	\$ 3,709	\$ 4,636
7212	N Oregon Ave	Local	2	261	2255	0	0.8	1.13	1.19	1.51	1.52	\$ -	\$ 66	\$ 199	\$ 199	\$ 265	\$ 331

Road Class	Vehicles per Day
Principal Arterial	20,000
Minor Arterial	15,000
Collector	7,000
Collector - Minor	3,500
Local	1,000

Road Class	Time (min)
Local	10
Collector - Minor	15
Collector	20
Minor Arterial	25
Principal Arterial	30

Node Name	Mean Flood Duration (hr)	5-yr/1-day Flood Duration (hr)	10-yr/1-day Flood Duration (hr)	25-yr/1-day Flood Duration (hr)	50-yr/1-day Flood Duration (hr)	100-yr/1-day Flood Duration (hr)
1020	0.5	0.75	1	1.25	1.5	1.75
1030	1	1	1.25	2	2.5	2.5
1040	1.75	2	3	3.25	4.75	6
1041	2.25	2.5	3.5	4	5.5	7.5
1050	1.5	1.5	2.75	3.25	5	7
2010	3.5	4.75	5.75	7	9.5	12.25
2020	0	1.5	3	4	6.25	8.5
2030	3.5	4.5	5.75	6.75	9.25	11.75
2040	3.75	4.75	5.75	7	9.5	11.75
2050	3.75	4.75	5.75	6.75	9.25	11.5
2060	1	1.5	3	4.25	6.25	8.5
2070	0	0	0	0	0	0.25
2181	3.75	4.75	5.75	6.75	9.5	11.75
2193	3.75	4.75	5.75	6.75	9.5	11.75
2240	3.75	4.75	5.75	6.75	9.5	11.75
2245	3.75	4.75	5.75	6.75	9.5	11.75
2250	0	0.25	0.75	1	1	1.5
2255	0	0.25	0.75	0.75	1	1.25
2260	0	0	0	0	0.25	0.75
2265	3.75	4.75	5.75	6.75	9.5	11.75
2285	39.25	40.25	41.25	42	43	43.5
2290	26	26.25	27	27.5	28.5	29.75
3010	1	1.25	2	2.25	3.75	5.75
3020	1.25	1.5	3.25	4.25	6.25	8.25
3050	1.75	2.25	3.75	5	7.25	9.5
5010	0.25	0.5	3.25	4.25	6.5	8.75
5020	3.75	4.75	5.75	6.75	9.5	11.75
5030	3.75	4.75	5.75	6.75	9.5	11.75
6010	0	0	0.25	0.5	0.75	1
6020	0	0	0.25	0.5	0.75	1
7010	0.5	0.75	1	1	1	1.5

Unique ID	Road Name	Ex. Mean Flood Depth (ft)	Ex. 5-yr/1-d Flood Depth (ft)	Ex. 10-yr/1-d Flood Depth (ft)	Ex. 25-yr/1-d Flood Depth (ft)	Ex. 50-yr/1-d Flood Depth (ft)	Ex. 100-yr/1-d Flood Depth (ft)	Mean Total Flooding Cost	5-yr/1-d Total Flooding Cost	10-yr/1-d Total Flooding Cost	25-yr/1-d Total Flooding Cost	50-yr/1-d Total Flooding Cost	100-yr/1-d Total Flooding Cost
183	N Armenia Ave	0	0	0	0.62	0.74	0.75	\$ -	\$ -	\$ -	\$ 129,019	\$ 131,502	\$ 133,986
199	N Armenia Ave	0.54	0.72	0.76	0.85	0.96	1.08	\$ 122,447	\$ 124,931	\$ 127,415	\$ 129,899	\$ 132,382	\$ 134,866
201	N Armenia Ave	0	0.73	0.78	0.87	0.93	1.15	\$ -	\$ 124,051	\$ 126,535	\$ 129,019	\$ 131,502	\$ 133,986
397	N Boulevard	0	0	0	0.54	0.86	1.08	\$ -	\$ -	\$ -	\$ 699,781	\$ 727,102	\$ 749,455
717	N Fremont Ave	0.82	0.85	0.95	1	1.03	1.27	\$ 48,753	\$ 49,018	\$ 49,283	\$ 49,615	\$ 50,277	\$ 50,873
728	N Fremont Ave	1.24	1.24	1.24	1.24	1.64	1.95	\$ 33,927	\$ 34,192	\$ 34,523	\$ 34,788	\$ 35,451	\$ 36,113
730	N Fremont Ave	1.13	1.14	1.3	1.14	1.54	2.04	\$ 32,727	\$ 32,992	\$ 33,323	\$ 33,588	\$ 34,251	\$ 34,913
742	N Fremont Ave	1.31	1.37	1.38	1.38	1.78	2.12	\$ 32,847	\$ 33,178	\$ 33,443	\$ 33,775	\$ 34,437	\$ 35,165
1095	N Howard Ave	0.79	0.86	0.83	0.91	0.94	0.91	\$ 276,922	\$ 276,922	\$ 289,341	\$ 294,308	\$ 311,694	\$ 331,564
1111	N Howard Ave	0.67	0.69	0.84	0.89	0.92	1.01	\$ 285,034	\$ 287,517	\$ 297,452	\$ 302,420	\$ 317,322	\$ 337,192
1115	N Howard Ave	0.66	0.66	0.9	0.95	0.98	1.02	\$ 204,514	\$ 206,997	\$ 216,932	\$ 221,900	\$ 236,802	\$ 256,672
1132	N Howard Ave	0.86	0.89	0.91	0.92	0.97	1.05	\$ 185,495	\$ 185,495	\$ 187,979	\$ 195,430	\$ 200,397	\$ 200,397
1139	N Howard Ave	1.04	1.2	1.22	1.35	1.41	1.48	\$ 184,175	\$ 184,175	\$ 186,659	\$ 194,110	\$ 199,077	\$ 199,077
1147	N Howard Ave	0.67	0.77	0.81	1.36	1.4	1.42	\$ 186,155	\$ 186,155	\$ 188,639	\$ 196,090	\$ 201,057	\$ 201,057
1165	N Howard Ave	0	0	0	0.61	0.84	0.95	\$ -	\$ -	\$ -	\$ 193,450	\$ 198,417	\$ 198,417
1167	N Howard Ave	0	0	0	0.55	0.85	1.06	\$ -	\$ -	\$ -	\$ 193,450	\$ 198,417	\$ 198,417
1184	N Howard Ave	0	0	0.73	0.79	0.79	0.82	\$ -	\$ -	\$ 191,939	\$ 199,390	\$ 204,357	\$ 204,357
1355	N Oregon Ave	0	0.72	0.77	1.16	1.5	1.65	\$ -	\$ 30,732	\$ 31,461	\$ 31,726	\$ 32,322	\$ 32,918
1373	N Oregon Ave	0	0	0.59	0.91	1.31	1.69	\$ -	\$ -	\$ 31,581	\$ 31,846	\$ 32,442	\$ 33,038
1374	N Oregon Ave	0	0	0.54	0.75	1.05	1.3	\$ -	\$ -	\$ 32,181	\$ 32,446	\$ 33,042	\$ 33,638
1496	N Rome Ave	1.38	1.6	1.85	2.1	2.42	2.68	\$ 49,113	\$ 49,378	\$ 49,643	\$ 49,908	\$ 50,571	\$ 51,167
1499	N Rome Ave	1.63	1.9	2.05	2.37	2.77	3.09	\$ 13,113	\$ 13,378	\$ 13,643	\$ 13,908	\$ 14,571	\$ 15,167
1506	N Rome Ave	1.63	2.02	2.35	2.41	2.81	3.2	\$ 33,153	\$ 33,418	\$ 33,683	\$ 34,015	\$ 34,677	\$ 35,273
1521	N Rome Ave	1.32	1.71	2.07	2.1	2.5	2.89	\$ 33,327	\$ 33,592	\$ 33,923	\$ 34,188	\$ 34,851	\$ 35,513
1525	N Rome Ave	1.23	1.62	1.88	2.02	2.41	2.8	\$ 33,447	\$ 33,712	\$ 34,043	\$ 34,308	\$ 34,971	\$ 35,633
1534	N Rome Ave	0	0.72	1.07	1.16	1.55	1.98	\$ -	\$ 32,797	\$ 33,195	\$ 33,460	\$ 34,056	\$ 34,652
1689	N Tampania Ave	0.66	0.78	0.68	0.79	0.79	0.69	\$ 32,052	\$ 32,119	\$ 32,185	\$ 32,251	\$ 32,317	\$ 32,384
1728	N Westland Ave	0.89	1.01	1.17	1.07	1.08	1.18	\$ 48,397	\$ 48,397	\$ 48,729	\$ 48,861	\$ 49,325	\$ 49,855
1746	N Westland Ave	1.71	1.72	1.72	1.72	1.72	1.72	\$ 48,236	\$ 48,302	\$ 48,567	\$ 48,700	\$ 49,097	\$ 49,627
1748	N Westland Ave	1.43	1.52	1.59	1.66	1.75	1.79	\$ 65,636	\$ 65,702	\$ 65,967	\$ 66,100	\$ 66,497	\$ 67,027
1934	S Albany Ave	0	0.56	0.8	0.89	0.99	1.2	\$ -	\$ 62,851	\$ 63,050	\$ 63,116	\$ 63,513	\$ 64,043
2166	S Dakota Ave	0	0	0.87	1.27	1.27	1.66	\$ -	\$ -	\$ 38,785	\$ 38,785	\$ 38,785	\$ 38,917
2169	S Dakota Ave	0	0.59	0.98	1.34	1.38	1.77	\$ -	\$ 68,479	\$ 68,545	\$ 68,545	\$ 68,545	\$ 68,677
2188	S Dakota Ave	0	0	0.75	0.87	1.26	1.83	\$ -	\$ -	\$ 64,883	\$ 65,148	\$ 65,877	\$ 66,473
2320	S Edison Ave	0	0	0	0.82	1.19	1.24	\$ -	\$ -	\$ -	\$ 31,932	\$ 31,999	\$ 32,065
2339	S Fremont Ave	0	0	0	0.84	1.14	1.22	\$ -	\$ -	\$ -	\$ 61,692	\$ 61,759	\$ 61,825
2343	S Fremont Ave	0	0	0.88	1.01	1.3	1.28	\$ -	\$ -	\$ 62,586	\$ 62,652	\$ 62,719	\$ 62,785
2372	S Fremont Ave	1.21	1.62	1.78	1.84	1.6	1.6	\$ 35,880	\$ 35,880	\$ 35,946	\$ 36,012	\$ 36,079	\$ 36,145
2376	S Fremont Ave	1.48	1.7	1.65	1.82	1.87	1.74	\$ 53,640	\$ 53,640	\$ 53,706	\$ 53,772	\$ 53,839	\$ 53,905
2551	S Melville Ave	0	0.63	1.23	1.43	1.7	1.82	\$ -	\$ 61,560	\$ 61,626	\$ 61,692	\$ 61,759	\$ 61,825
2552	S Melville Ave	0	0.89	1.22	1.68	1.87	1.96	\$ -	\$ 62,520	\$ 62,586	\$ 62,652	\$ 62,719	\$ 62,785
2582	S Melville Ave	0.86	0.95	1.15	1.13	1.21	1.34	\$ 35,880	\$ 35,880	\$ 35,946	\$ 36,012	\$ 36,079	\$ 36,145
2583	S Melville Ave	1.23	1.3	1.44	1.52	1.6	1.59	\$ 53,760	\$ 53,760	\$ 53,826	\$ 53,892	\$ 53,959	\$ 54,025
2803	S Oregon Ave	0.63	1.02	1.48	1.81	2.2	2.27	\$ 63,480	\$ 63,480	\$ 63,546	\$ 63,612	\$ 63,679	\$ 63,745
2892	S Packwood Ave	0	0	0.78	0.82	1.15	1.51	\$ -	\$ -	\$ 61,626	\$ 61,692	\$ 61,759	\$ 61,825
2893	S Packwood Ave	0	0.78	1.1	1.18	1.55	1.79	\$ -	\$ 62,520	\$ 62,586	\$ 62,652	\$ 62,719	\$ 62,785
3097	S Westland Ave	0	0.54	0.86	0.73	0.96	1.23	\$ -	\$ 61,440	\$ 61,506	\$ 61,572	\$ 61,639	\$ 61,705

Unique ID	Road Name	Ex. Mean Flood Depth (ft)	Ex. 5-yr/1-d Flood Depth (ft)	Ex. 10-yr/1-d Flood Depth (ft)	Ex. 25-yr/1-d Flood Depth (ft)	Ex. 50-yr/1-d Flood Depth (ft)	Ex. 100-yr/1-d Flood Depth (ft)	Mean Total Flooding Cost	5-yr/1-d Total Flooding Cost	10-yr/1-d Total Flooding Cost	25-yr/1-d Total Flooding Cost	50-yr/1-d Total Flooding Cost	100-yr/1-d Total Flooding Cost
3099	S Westland Ave	0	0.8	0.88	0.88	1.19	1.26	\$ -	\$ 62,640	\$ 62,706	\$ 62,772	\$ 62,839	\$ 62,905
3330	W Azelee St	1.3	1.45	1.51	1.59	1.68	1.69	\$ 19,920	\$ 19,920	\$ 19,986	\$ 20,052	\$ 20,119	\$ 20,185
3337	W Azelee St	1.24	1.66	2.05	2	1.63	1.76	\$ 40,080	\$ 40,080	\$ 40,146	\$ 40,212	\$ 40,279	\$ 40,345
3354	W Azelee St	0.63	1.28	1.28	1.52	1.67	1.61	\$ 39,360	\$ 39,360	\$ 39,426	\$ 39,492	\$ 39,559	\$ 39,625
3606	W Carmen St	0.96	1.05	1.12	1.59	1.67	1.69	\$ 80,400	\$ 80,400	\$ 80,466	\$ 80,532	\$ 80,599	\$ 80,665
3837	W Cass St	0	0	0	0.6	0.62	0.99	\$ -	\$ -	\$ -	\$ 315,110	\$ 320,077	\$ 320,077
3980	W Cleveland St	0	0	0	0.58	0.69	0.75	\$ -	\$ -	\$ -	\$ 223,427	\$ 225,911	\$ 228,395
3981	W Cleveland St	0	0	0.61	0.84	0.98	1.07	\$ -	\$ -	\$ 220,284	\$ 222,767	\$ 225,251	\$ 227,735
4031	W Cleveland St	0	0	0.52	0.62	0.62	0.52	\$ -	\$ -	\$ 496,026	\$ 505,961	\$ 533,282	\$ 555,635
4086	W Cleveland St	0.61	1	1.4	1.53	1.83	2.18	\$ 235,499	\$ 237,982	\$ 255,368	\$ 265,303	\$ 285,173	\$ 305,043
4088	W Cleveland St	0.54	0.95	1.1	1.32	1.65	1.82	\$ 230,219	\$ 232,702	\$ 250,088	\$ 260,023	\$ 279,893	\$ 299,763
4113	W Cleveland St	0	1.05	1.46	1.85	2.13	2.25	\$ -	\$ 234,682	\$ 252,068	\$ 262,003	\$ 281,873	\$ 301,743
4114	W Cleveland St	0	0.94	1.31	1.78	2.01	1.99	\$ -	\$ 235,342	\$ 252,728	\$ 262,663	\$ 282,533	\$ 302,403
4140	W Cleveland St	0	0.78	0.87	0.87	1.2	1.27	\$ -	\$ 233,519	\$ 240,970	\$ 243,454	\$ 258,356	\$ 278,226
4141	W Cleveland St	0.52	0.82	0.84	0.92	1.23	1.23	\$ 231,035	\$ 233,519	\$ 240,970	\$ 243,454	\$ 258,356	\$ 278,226
4243	W Cypress St	0	0	0	0.5	1.2	1.33	\$ -	\$ -	\$ -	\$ 68,038	\$ 71,863	\$ 74,993
4267	W Cypress St	0	0	0.61	0.68	1.06	1.09	\$ -	\$ -	\$ 40,888	\$ 42,278	\$ 46,103	\$ 49,233
4268	W Cypress St	0	0	0.55	0.61	1	1.03	\$ -	\$ -	\$ 35,598	\$ 36,988	\$ 40,813	\$ 43,943
4292	W Cypress St	0	0.59	1.18	1.33	1.51	1.61	\$ -	\$ 64,288	\$ 64,983	\$ 65,331	\$ 65,331	\$ 66,026
4295	W Cypress St	0	0.53	1.06	1.2	1.42	1.56	\$ -	\$ 155,598	\$ 156,293	\$ 156,641	\$ 156,641	\$ 157,336
4321	W Cypress St	0.63	1.02	1.31	1.36	1.47	1.61	\$ 154,100	\$ 154,448	\$ 155,143	\$ 155,143	\$ 155,491	\$ 155,839
4394	W Cypress St	0	0	0	0.61	1	1.07	\$ -	\$ -	\$ -	\$ 163,718	\$ 167,543	\$ 170,673
4481	W Cypress St	0.85	0.87	0.81	0.91	0.95	0.89	\$ 126,582	\$ 127,973	\$ 129,364	\$ 130,407	\$ 131,798	\$ 132,494
4507	W Cypress St	0.96	0.97	0.97	0.97	0.97	0.97	\$ 187,043	\$ 187,391	\$ 188,434	\$ 189,129	\$ 190,520	\$ 192,259
4508	W Cypress St	0.88	0.88	0.88	0.88	0.88	0.88	\$ 83,083	\$ 83,431	\$ 84,474	\$ 85,169	\$ 86,560	\$ 88,299
4651	W De Leon St	0	0	0.57	0.82	0.82	1.35	\$ -	\$ -	\$ 155,135	\$ 155,135	\$ 155,135	\$ 160,102
4653	W De Leon St	0	0	0.84	1.25	1.25	1.62	\$ -	\$ -	\$ 156,455	\$ 156,455	\$ 156,455	\$ 161,422
4720	W Fig St	1.22	1.62	2.04	2.01	2.4	2.84	\$ 81,087	\$ 81,352	\$ 81,683	\$ 81,948	\$ 82,611	\$ 83,273
4722	W Fig St	1.32	1.68	1.85	2.11	2.5	2.83	\$ 81,327	\$ 81,592	\$ 81,923	\$ 82,188	\$ 82,851	\$ 83,513
4747	W Fig St	1.27	1.27	1.27	1.27	1.66	2.06	\$ 81,087	\$ 81,352	\$ 81,683	\$ 81,948	\$ 82,611	\$ 83,273
5124	W Gray St	0.52	0.74	1.22	1.2	1.6	2.11	\$ 80,400	\$ 80,797	\$ 81,195	\$ 81,460	\$ 82,056	\$ 82,652
5135	W Gray St	0.72	0.78	0.82	1.1	1.49	1.77	\$ 80,967	\$ 81,298	\$ 81,563	\$ 81,895	\$ 82,557	\$ 83,285
5151	W Gray St	1.19	1.27	1.31	1.31	1.66	1.91	\$ 81,207	\$ 81,538	\$ 81,803	\$ 82,135	\$ 82,797	\$ 83,525
5204	W Gray St	0.6	0.67	0.78	0.73	0.75	0.85	\$ 40,465	\$ 40,465	\$ 40,531	\$ 40,730	\$ 40,862	\$ 40,862
5231	W Gray St	0.53	0.74	0.79	0.91	0.97	1.16	\$ 80,412	\$ 80,479	\$ 80,545	\$ 80,611	\$ 80,677	\$ 80,744
5234	W Gray St	0.54	0.93	0.9	0.93	1.16	1.3	\$ 52,932	\$ 52,999	\$ 53,065	\$ 53,131	\$ 53,197	\$ 53,264
5501	W Kennedy Blvd	0	0	0	0	0.53	0.56	\$ -	\$ -	\$ -	\$ -	\$ 245,122	\$ 249,096
5503	W Kennedy Blvd	0	0	0	0.58	0.61	0.64	\$ -	\$ -	\$ -	\$ 66,908	\$ 70,882	\$ 74,856
5507	W Kennedy Blvd	0	0	0	0	0	0.57	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 187,496
5557	W Kennedy Blvd	0	0	0	0.65	1.03	1.37	\$ -	\$ -	\$ -	\$ 369,397	\$ 405,163	\$ 440,929
5564	W Kennedy Blvd	0	1.16	1.55	1.82	2.21	2.34	\$ -	\$ 286,908	\$ 330,621	\$ 346,517	\$ 382,283	\$ 418,049
5576	W Kennedy Blvd	0	1.19	1.5	1.71	2.04	2.37	\$ -	\$ 304,508	\$ 348,221	\$ 364,117	\$ 399,883	\$ 435,649
5585	W Kennedy Blvd	0	0.6	0.64	1.01	1.35	1.56	\$ -	\$ 296,588	\$ 340,301	\$ 356,197	\$ 391,963	\$ 427,729
5608	W Kennedy Blvd	0	0.69	1.08	1.08	1.47	1.87	\$ -	\$ 293,920	\$ 293,920	\$ 293,920	\$ 293,920	\$ 297,894
5613	W Kennedy Blvd	0.56	0.72	0.87	0.94	1.18	1.47	\$ 293,920	\$ 293,920	\$ 293,920	\$ 293,920	\$ 293,920	\$ 297,894
5636	W Kennedy Blvd	0	0	0.76	0.7	0.92	1.05	\$ -	\$ -	\$ 293,920	\$ 293,920	\$ 293,920	\$ 297,894
5648	W Kennedy Blvd	0	0	0	0.69	0.73	0.75	\$ -	\$ -	\$ -	\$ 293,920	\$ 293,920	\$ 297,894

Unique ID	Road Name	Ex. Mean Flood Depth (ft)	Ex. 5-yr/1-d Flood Depth (ft)	Ex. 10-yr/1-d Flood Depth (ft)	Ex. 25-yr/1-d Flood Depth (ft)	Ex. 50-yr/1-d Flood Depth (ft)	Ex. 100-yr/1-d Flood Depth (ft)	Mean Total Flooding Cost	5-yr/1-d Total Flooding Cost	10-yr/1-d Total Flooding Cost	25-yr/1-d Total Flooding Cost	50-yr/1-d Total Flooding Cost	100-yr/1-d Total Flooding Cost
5664	W Kennedy Blvd	0.56	0	0.65	0.65	0.66	0.68	\$ 318,644	\$ -	\$ 338,514	\$ 346,461	\$ 374,279	\$ 406,071
5667	W Kennedy Blvd	0.5	0	0	0.53	0.56	0.58	\$ 316,884	\$ -	\$ -	\$ 344,701	\$ 372,519	\$ 404,311
6181	W North A St	1.37	1.6	1.87	2.08	2.47	2.79	\$ 81,273	\$ 81,538	\$ 81,803	\$ 82,068	\$ 82,731	\$ 83,327
6246	W North A St	1.09	1.18	1.06	1.25	1.29	1.18	\$ 40,597	\$ 40,597	\$ 40,929	\$ 41,061	\$ 41,525	\$ 42,055
6249	W North A St	0.97	1.04	1.18	1.1	1.15	1.32	\$ 40,357	\$ 40,357	\$ 40,689	\$ 40,821	\$ 41,285	\$ 41,815
6404	W North A St	0	0	0	0.75	1.06	1.22	\$ -	\$ -	\$ -	\$ 80,206	\$ 80,802	\$ 81,398
6433	W North A St	1.82	2.21	2.28	2.61	3	3.28	\$ 81,273	\$ 81,538	\$ 81,803	\$ 82,068	\$ 82,731	\$ 83,327
6558	W North B St	1.581795	1.81	2.08	2.25	2.64	2.96	\$ 81,273	\$ 81,538	\$ 81,803	\$ 82,135	\$ 82,797	\$ 83,393
6561	W North B St	1.27	1.48	1.83	2.02	2.41	2.77	\$ 81,153	\$ 81,418	\$ 81,683	\$ 82,015	\$ 82,677	\$ 83,273
6587	W North B St	0.78	0.82	0.84	0.85	0.87	1.2	\$ 81,273	\$ 81,538	\$ 81,803	\$ 82,135	\$ 82,797	\$ 83,393
6626	W North B St	1.5	1.54	1.6	1.63	1.63	1.63	\$ 40,796	\$ 40,862	\$ 41,127	\$ 41,260	\$ 41,657	\$ 42,187
6627	W North B St	1.44	1.47	1.52	1.56	1.58	1.58	\$ 40,676	\$ 40,742	\$ 41,007	\$ 41,140	\$ 41,537	\$ 42,067
6869	W Platt St	0	0.52	0.53	0.53	0.89	1.03	\$ -	\$ 246,754	\$ 261,656	\$ 274,074	\$ 296,428	\$ 318,782
6874	W Platt St	0.6	0.6	0.66	0.62	0.99	1.42	\$ 230,566	\$ 235,534	\$ 250,436	\$ 262,854	\$ 285,208	\$ 307,562
6896	W Platt St	0	0	0.57	0.58	0.66	0.73	\$ -	\$ -	\$ 240,310	\$ 242,794	\$ 257,696	\$ 277,566
6900	W Platt St	0	0	0.58	0	0	0.61	\$ -	\$ -	\$ 240,970	\$ -	\$ -	\$ 278,226
7192	N Tampania Ave	0.57	0.59	0.84	0.63	0.67	0.93	\$ 40,879	\$ 41,143	\$ 41,408	\$ 41,607	\$ 41,872	\$ 42,004
7210	N Willow Ave	0	0.52	1.03	1.31	1.37	1.71	\$ -	\$ 60,957	\$ 62,812	\$ 63,739	\$ 63,739	\$ 65,594
7211	N Willow Ave	0	0	0.85	1	1.17	1.36	\$ -	\$ -	\$ 65,112	\$ 65,112	\$ 66,039	\$ 66,966
7212	N Oregon Ave	0	0.8	1.13	1.19	1.51	1.52	\$ -	\$ 31,386	\$ 31,519	\$ 31,519	\$ 31,585	\$ 31,651

Unique ID	Road Name	Mean Total Flooding Cost	5-yr/1-d Total Flooding Cost	10-yr/1-d Total Flooding Cost	25-yr/1-d Total Flooding Cost	50-yr/1-d Total Flooding Cost	100-yr/1-d Total Flooding Cost	0.23 Interval x Avg. Cost for Interval	0.1 Interval x Avg. Cost for Interval	0.06 Interval x Avg. Cost for Interval	0.02 Interval x Avg. Cost for Interval	0.01 Interval x Avg. Cost for Interval	Total Expected Annual Damages
183	N Armenia Ave	\$ -	\$ -	\$ -	\$ 129,019	\$ 131,502	\$ 133,986	\$ -	\$ -	\$ 3,871	\$ 2,605	\$ 1,327	\$ 7,803
199	N Armenia Ave	\$ 122,447	\$ 124,931	\$ 127,415	\$ 129,899	\$ 132,382	\$ 134,866	\$ 28,449	\$ 12,617	\$ 7,719	\$ 2,623	\$ 1,336	\$ 52,744
201	N Armenia Ave	\$ -	\$ 124,051	\$ 126,535	\$ 129,019	\$ 131,502	\$ 133,986	\$ 14,266	\$ 12,529	\$ 7,667	\$ 2,605	\$ 1,327	\$ 38,394
397	N Boulevard	\$ -	\$ -	\$ -	\$ 699,781	\$ 727,102	\$ 749,455	\$ -	\$ -	\$ 20,993	\$ 14,269	\$ 7,383	\$ 42,645
717	N Fremont Ave	\$ 48,753	\$ 49,018	\$ 49,283	\$ 49,615	\$ 50,277	\$ 50,873	\$ 11,244	\$ 4,915	\$ 2,967	\$ 999	\$ 506	\$ 20,630
728	N Fremont Ave	\$ 33,927	\$ 34,192	\$ 34,523	\$ 34,788	\$ 35,451	\$ 36,113	\$ 7,834	\$ 3,436	\$ 2,079	\$ 702	\$ 358	\$ 14,409
730	N Fremont Ave	\$ 32,727	\$ 32,992	\$ 33,323	\$ 33,588	\$ 34,251	\$ 34,913	\$ 7,558	\$ 3,316	\$ 2,007	\$ 678	\$ 346	\$ 13,905
742	N Fremont Ave	\$ 32,847	\$ 33,178	\$ 33,443	\$ 33,775	\$ 34,437	\$ 35,165	\$ 7,593	\$ 3,331	\$ 2,017	\$ 682	\$ 348	\$ 13,971
1095	N Howard Ave	\$ 276,922	\$ 276,922	\$ 289,341	\$ 294,308	\$ 311,694	\$ 331,564	\$ 63,692	\$ 28,313	\$ 17,509	\$ 6,060	\$ 3,216	\$ 118,791
1111	N Howard Ave	\$ 285,034	\$ 287,517	\$ 297,452	\$ 302,420	\$ 317,322	\$ 337,192	\$ 65,843	\$ 29,248	\$ 17,996	\$ 6,197	\$ 3,273	\$ 122,558
1115	N Howard Ave	\$ 204,514	\$ 206,997	\$ 216,932	\$ 221,900	\$ 236,802	\$ 256,672	\$ 47,324	\$ 21,196	\$ 13,165	\$ 4,587	\$ 2,467	\$ 88,740
1132	N Howard Ave	\$ 185,495	\$ 185,495	\$ 187,979	\$ 195,430	\$ 200,397	\$ 200,397	\$ 42,664	\$ 18,674	\$ 11,502	\$ 3,958	\$ 2,004	\$ 78,802
1139	N Howard Ave	\$ 184,175	\$ 184,175	\$ 186,659	\$ 194,110	\$ 199,077	\$ 199,077	\$ 42,360	\$ 18,542	\$ 11,423	\$ 3,932	\$ 1,991	\$ 78,248
1147	N Howard Ave	\$ 186,155	\$ 186,155	\$ 188,639	\$ 196,090	\$ 201,057	\$ 201,057	\$ 42,816	\$ 18,740	\$ 11,542	\$ 3,971	\$ 2,011	\$ 79,079
1165	N Howard Ave	\$ -	\$ -	\$ -	\$ 193,450	\$ 198,417	\$ 198,417	\$ -	\$ -	\$ 5,803	\$ 3,919	\$ 1,984	\$ 11,706
1167	N Howard Ave	\$ -	\$ -	\$ -	\$ 193,450	\$ 198,417	\$ 198,417	\$ -	\$ -	\$ 5,803	\$ 3,919	\$ 1,984	\$ 11,706
1184	N Howard Ave	\$ -	\$ -	\$ 191,939	\$ 199,390	\$ 204,357	\$ 204,357	\$ -	\$ 9,597	\$ 11,740	\$ 4,037	\$ 2,044	\$ 27,418
1355	N Oregon Ave	\$ -	\$ 30,732	\$ 31,461	\$ 31,726	\$ 32,322	\$ 32,918	\$ 3,534	\$ 3,110	\$ 1,896	\$ 640	\$ 326	\$ 9,506
1373	N Oregon Ave	\$ -	\$ -	\$ 31,581	\$ 31,846	\$ 32,442	\$ 33,038	\$ -	\$ 1,579	\$ 1,903	\$ 643	\$ 327	\$ 4,452
1374	N Oregon Ave	\$ -	\$ -	\$ 32,181	\$ 32,446	\$ 33,042	\$ 33,638	\$ -	\$ 1,609	\$ 1,939	\$ 655	\$ 333	\$ 4,536
1496	N Rome Ave	\$ 49,113	\$ 49,378	\$ 49,643	\$ 49,908	\$ 50,571	\$ 51,167	\$ 11,327	\$ 4,951	\$ 2,987	\$ 1,005	\$ 509	\$ 20,778
1499	N Rome Ave	\$ 13,113	\$ 13,378	\$ 13,643	\$ 13,908	\$ 14,571	\$ 15,167	\$ 3,047	\$ 1,351	\$ 827	\$ 285	\$ 149	\$ 5,658
1506	N Rome Ave	\$ 33,153	\$ 33,418	\$ 33,683	\$ 34,015	\$ 34,677	\$ 35,273	\$ 7,656	\$ 3,355	\$ 2,031	\$ 687	\$ 350	\$ 14,078
1521	N Rome Ave	\$ 33,327	\$ 33,592	\$ 33,923	\$ 34,188	\$ 34,851	\$ 35,513	\$ 7,696	\$ 3,376	\$ 2,043	\$ 690	\$ 352	\$ 14,157
1525	N Rome Ave	\$ 33,447	\$ 33,712	\$ 34,043	\$ 34,308	\$ 34,971	\$ 35,633	\$ 7,723	\$ 3,388	\$ 2,051	\$ 693	\$ 353	\$ 14,207
1534	N Rome Ave	\$ -	\$ 32,797	\$ 33,195	\$ 33,460	\$ 34,056	\$ 34,652	\$ 3,772	\$ 3,300	\$ 2,000	\$ 675	\$ 344	\$ 10,090
1689	N Tampania Ave	\$ 32,052	\$ 32,119	\$ 32,185	\$ 32,251	\$ 32,317	\$ 32,384	\$ 7,380	\$ 3,215	\$ 1,933	\$ 646	\$ 324	\$ 13,497
1728	N Westland Ave	\$ 48,397	\$ 48,397	\$ 48,729	\$ 48,861	\$ 49,325	\$ 49,855	\$ 11,131	\$ 4,856	\$ 2,928	\$ 982	\$ 496	\$ 20,393
1746	N Westland Ave	\$ 48,236	\$ 48,302	\$ 48,567	\$ 48,700	\$ 49,097	\$ 49,627	\$ 11,102	\$ 4,843	\$ 2,918	\$ 978	\$ 494	\$ 20,335
1748	N Westland Ave	\$ 65,636	\$ 65,702	\$ 65,967	\$ 66,100	\$ 66,497	\$ 67,027	\$ 15,104	\$ 6,583	\$ 3,962	\$ 1,326	\$ 668	\$ 27,643
1934	S Albany Ave	\$ -	\$ 62,851	\$ 63,050	\$ 63,116	\$ 63,513	\$ 64,043	\$ 7,228	\$ 6,295	\$ 3,785	\$ 1,266	\$ 638	\$ 19,212
2166	S Dakota Ave	\$ -	\$ -	\$ 38,785	\$ 38,785	\$ 38,785	\$ 38,917	\$ -	\$ 1,939	\$ 2,327	\$ 776	\$ 389	\$ 5,431
2169	S Dakota Ave	\$ -	\$ 68,479	\$ 68,545	\$ 68,545	\$ 68,545	\$ 68,677	\$ 7,875	\$ 6,851	\$ 4,113	\$ 1,371	\$ 686	\$ 20,896
2188	S Dakota Ave	\$ -	\$ -	\$ 64,883	\$ 65,148	\$ 65,877	\$ 66,473	\$ -	\$ 3,244	\$ 3,901	\$ 1,310	\$ 662	\$ 9,117
2320	S Edison Ave	\$ -	\$ -	\$ -	\$ 31,932	\$ 31,999	\$ 32,065	\$ -	\$ -	\$ 958	\$ 639	\$ 320	\$ 1,918
2339	S Fremont Ave	\$ -	\$ -	\$ -	\$ 61,692	\$ 61,759	\$ 61,825	\$ -	\$ -	\$ 1,851	\$ 1,235	\$ 618	\$ 3,703
2343	S Fremont Ave	\$ -	\$ -	\$ 62,586	\$ 62,652	\$ 62,719	\$ 62,785	\$ -	\$ 3,129	\$ 3,757	\$ 1,254	\$ 628	\$ 8,768
2372	S Fremont Ave	\$ 35,880	\$ 35,880	\$ 35,946	\$ 36,012	\$ 36,079	\$ 36,145	\$ 8,252	\$ 3,591	\$ 2,159	\$ 721	\$ 361	\$ 15,085
2376	S Fremont Ave	\$ 53,640	\$ 53,640	\$ 53,706	\$ 53,772	\$ 53,839	\$ 53,905	\$ 12,337	\$ 5,367	\$ 3,224	\$ 1,076	\$ 539	\$ 22,544
2551	S Melville Ave	\$ -	\$ 61,560	\$ 61,626	\$ 61,692	\$ 61,759	\$ 61,825	\$ 7,079	\$ 6,159	\$ 3,700	\$ 1,235	\$ 618	\$ 18,791
2552	S Melville Ave	\$ -	\$ 62,520	\$ 62,586	\$ 62,652	\$ 62,719	\$ 62,785	\$ 7,190	\$ 6,255	\$ 3,757	\$ 1,254	\$ 628	\$ 19,084
2582	S Melville Ave	\$ 35,880	\$ 35,880	\$ 35,946	\$ 36,012	\$ 36,079	\$ 36,145	\$ 8,252	\$ 3,591	\$ 2,159	\$ 721	\$ 361	\$ 15,085
2583	S Melville Ave	\$ 53,760	\$ 53,760	\$ 53,826	\$ 53,892	\$ 53,959	\$ 54,025	\$ 12,365	\$ 5,379	\$ 3,232	\$ 1,079	\$ 540	\$ 22,594
2803	S Oregon Ave	\$ 63,480	\$ 63,480	\$ 63,546	\$ 63,612	\$ 63,679	\$ 63,745	\$ 14,600	\$ 6,351	\$ 3,815	\$ 1,273	\$ 637	\$ 26,677
2892	S Packwood Ave	\$ -	\$ -	\$ 61,626	\$ 61,692	\$ 61,759	\$ 61,825	\$ -	\$ 3,081	\$ 3,700	\$ 1,235	\$ 618	\$ 8,633
2893	S Packwood Ave	\$ -	\$ 62,520	\$ 62,586	\$ 62,652	\$ 62,719	\$ 62,785	\$ 7,190	\$ 6,255	\$ 3,757	\$ 1,254	\$ 628	\$ 19,084
3097	S Westland Ave	\$ -	\$ 61,440	\$ 61,506	\$ 61,572	\$ 61,639	\$ 61,705	\$ 7,066	\$ 6,147	\$ 3,692	\$ 1,232	\$ 617	\$ 18,754
3099	S Westland Ave	\$ -	\$ 62,640	\$ 62,706	\$ 62,772	\$ 62,839	\$ 62,905	\$ 7,204	\$ 6,267	\$ 3,764	\$ 1,256	\$ 629	\$ 19,120
3330	W Azeele St	\$ 19,920	\$ 19,920	\$ 19,986	\$ 20,052	\$ 20,119	\$ 20,185	\$ 4,582	\$ 1,995	\$ 1,201	\$ 402	\$ 202	\$ 8,381
3337	W Azeele St	\$ 40,080	\$ 40,080	\$ 40,146	\$ 40,212	\$ 40,279	\$ 40,345	\$ 9,218	\$ 4,011	\$ 2,411	\$ 805	\$ 403	\$ 16,849

Unique ID	Road Name	Mean Total Flooding Cost	5-yr/1-d Total Flooding Cost	10-yr/1-d Total Flooding Cost	25-yr/1-d Total Flooding Cost	50-yr/1-d Total Flooding Cost	100-yr/1-d Total Flooding Cost	0.23 Interval x Avg. Cost for Interval	0.1 Interval x Avg. Cost for Interval	0.06 Interval x Avg. Cost for Interval	0.02 Interval x Avg. Cost for Interval	0.01 Interval x Avg. Cost for Interval	Total Expected Annual Damages
3354	W Azelee St	\$ 39,360	\$ 39,360	\$ 39,426	\$ 39,492	\$ 39,559	\$ 39,625	\$ 9,053	\$ 3,939	\$ 2,368	\$ 791	\$ 396	\$ 16,546
3606	W Carmen St	\$ 80,400	\$ 80,400	\$ 80,466	\$ 80,532	\$ 80,599	\$ 80,665	\$ 18,492	\$ 8,043	\$ 4,830	\$ 1,611	\$ 806	\$ 33,783
3837	W Cass St	\$ -	\$ -	\$ -	\$ 315,110	\$ 320,077	\$ 320,077	\$ -	\$ -	\$ 9,453	\$ 6,352	\$ 3,201	\$ 19,006
3980	W Cleveland St	\$ -	\$ -	\$ -	\$ 223,427	\$ 225,911	\$ 228,395	\$ -	\$ -	\$ 6,703	\$ 4,493	\$ 2,272	\$ 13,468
3981	W Cleveland St	\$ -	\$ -	\$ 220,284	\$ 222,767	\$ 225,251	\$ 227,735	\$ -	\$ 11,014	\$ 13,292	\$ 4,480	\$ 2,265	\$ 31,051
4031	W Cleveland St	\$ -	\$ -	\$ 496,026	\$ 505,961	\$ 533,282	\$ 555,635	\$ -	\$ 24,801	\$ 30,060	\$ 10,392	\$ 5,445	\$ 70,698
4086	W Cleveland St	\$ 235,499	\$ 237,982	\$ 255,368	\$ 265,303	\$ 285,173	\$ 305,043	\$ 54,450	\$ 24,668	\$ 15,620	\$ 5,505	\$ 2,951	\$ 103,194
4088	W Cleveland St	\$ 230,219	\$ 232,702	\$ 250,088	\$ 260,023	\$ 279,893	\$ 299,763	\$ 53,236	\$ 24,140	\$ 15,303	\$ 5,399	\$ 2,898	\$ 100,976
4113	W Cleveland St	\$ -	\$ 234,682	\$ 252,068	\$ 262,003	\$ 281,873	\$ 301,743	\$ 26,988	\$ 24,338	\$ 15,422	\$ 5,439	\$ 2,918	\$ 75,105
4114	W Cleveland St	\$ -	\$ 235,342	\$ 252,728	\$ 262,663	\$ 282,533	\$ 302,403	\$ 27,064	\$ 24,404	\$ 15,462	\$ 5,452	\$ 2,925	\$ 75,306
4140	W Cleveland St	\$ -	\$ 233,519	\$ 240,970	\$ 243,454	\$ 258,356	\$ 278,226	\$ 26,855	\$ 23,724	\$ 14,533	\$ 5,018	\$ 2,683	\$ 72,813
4141	W Cleveland St	\$ 231,035	\$ 233,519	\$ 240,970	\$ 243,454	\$ 258,356	\$ 278,226	\$ 53,424	\$ 23,724	\$ 14,533	\$ 5,018	\$ 2,683	\$ 99,382
4243	W Cypress St	\$ -	\$ -	\$ -	\$ 68,038	\$ 71,863	\$ 74,993	\$ -	\$ -	\$ 2,041	\$ 1,399	\$ 734	\$ 4,174
4267	W Cypress St	\$ -	\$ -	\$ 40,888	\$ 42,278	\$ 46,103	\$ 49,233	\$ -	\$ 2,044	\$ 2,495	\$ 884	\$ 477	\$ 5,900
4268	W Cypress St	\$ -	\$ -	\$ 35,598	\$ 36,988	\$ 40,813	\$ 43,943	\$ -	\$ 1,780	\$ 2,178	\$ 778	\$ 424	\$ 5,159
4292	W Cypress St	\$ -	\$ 64,288	\$ 64,983	\$ 65,331	\$ 65,331	\$ 66,026	\$ 7,393	\$ 6,464	\$ 3,909	\$ 1,307	\$ 657	\$ 19,729
4295	W Cypress St	\$ -	\$ 155,598	\$ 156,293	\$ 156,641	\$ 156,641	\$ 157,336	\$ 17,894	\$ 15,595	\$ 9,388	\$ 3,133	\$ 1,570	\$ 47,579
4321	W Cypress St	\$ 154,100	\$ 154,448	\$ 155,143	\$ 155,143	\$ 155,491	\$ 155,839	\$ 35,483	\$ 15,480	\$ 9,309	\$ 3,106	\$ 1,557	\$ 64,934
4394	W Cypress St	\$ -	\$ -	\$ -	\$ 163,718	\$ 167,543	\$ 170,673	\$ -	\$ -	\$ 4,912	\$ 3,313	\$ 1,691	\$ 9,915
4481	W Cypress St	\$ 126,582	\$ 127,973	\$ 129,364	\$ 130,407	\$ 131,798	\$ 132,494	\$ 29,274	\$ 12,867	\$ 7,793	\$ 2,622	\$ 1,321	\$ 53,877
4507	W Cypress St	\$ 187,043	\$ 187,391	\$ 188,434	\$ 189,129	\$ 190,520	\$ 192,259	\$ 43,060	\$ 18,791	\$ 11,327	\$ 3,796	\$ 1,914	\$ 78,888
4508	W Cypress St	\$ 83,083	\$ 83,431	\$ 84,474	\$ 85,169	\$ 86,560	\$ 88,299	\$ 19,149	\$ 8,395	\$ 5,089	\$ 1,717	\$ 874	\$ 35,225
4651	W De Leon St	\$ -	\$ -	\$ 155,135	\$ 155,135	\$ 155,135	\$ 160,102	\$ -	\$ 7,757	\$ 9,308	\$ 3,103	\$ 1,576	\$ 21,744
4653	W De Leon St	\$ -	\$ -	\$ 156,455	\$ 156,455	\$ 156,455	\$ 161,422	\$ -	\$ 7,823	\$ 9,387	\$ 3,129	\$ 1,589	\$ 21,929
4720	W Fig St	\$ 81,087	\$ 81,352	\$ 81,683	\$ 81,948	\$ 82,611	\$ 83,273	\$ 18,681	\$ 8,152	\$ 4,909	\$ 1,646	\$ 829	\$ 34,216
4722	W Fig St	\$ 81,327	\$ 81,592	\$ 81,923	\$ 82,188	\$ 82,851	\$ 83,513	\$ 18,736	\$ 8,176	\$ 4,923	\$ 1,650	\$ 832	\$ 34,317
4747	W Fig St	\$ 81,087	\$ 81,352	\$ 81,683	\$ 81,948	\$ 82,611	\$ 83,273	\$ 18,681	\$ 8,152	\$ 4,909	\$ 1,646	\$ 829	\$ 34,216
5124	W Gray St	\$ 80,400	\$ 80,797	\$ 81,195	\$ 81,460	\$ 82,056	\$ 82,652	\$ 18,538	\$ 8,100	\$ 4,880	\$ 1,635	\$ 824	\$ 33,976
5135	W Gray St	\$ 80,967	\$ 81,298	\$ 81,563	\$ 81,895	\$ 82,557	\$ 83,285	\$ 18,661	\$ 8,143	\$ 4,904	\$ 1,645	\$ 829	\$ 34,181
5151	W Gray St	\$ 81,207	\$ 81,538	\$ 81,803	\$ 82,135	\$ 82,797	\$ 83,525	\$ 18,716	\$ 8,167	\$ 4,918	\$ 1,649	\$ 832	\$ 34,282
5204	W Gray St	\$ 40,465	\$ 40,465	\$ 40,531	\$ 40,730	\$ 40,862	\$ 40,862	\$ 9,307	\$ 4,050	\$ 2,438	\$ 816	\$ 409	\$ 17,019
5231	W Gray St	\$ 80,412	\$ 80,479	\$ 80,545	\$ 80,611	\$ 80,677	\$ 80,744	\$ 18,502	\$ 8,051	\$ 4,835	\$ 1,613	\$ 807	\$ 33,808
5234	W Gray St	\$ 52,932	\$ 52,999	\$ 53,065	\$ 53,131	\$ 53,197	\$ 53,264	\$ 12,182	\$ 5,303	\$ 3,186	\$ 1,063	\$ 532	\$ 22,267
5501	W Kennedy Blvd	\$ -	\$ -	\$ -	\$ -	\$ 245,122	\$ 249,096	\$ -	\$ -	\$ -	\$ 2,451	\$ 2,471	\$ 4,922
5503	W Kennedy Blvd	\$ -	\$ -	\$ -	\$ 66,908	\$ 70,882	\$ 74,856	\$ -	\$ -	\$ 2,007	\$ 1,378	\$ 729	\$ 4,114
5507	W Kennedy Blvd	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 187,496	\$ -	\$ -	\$ -	\$ -	\$ 937	\$ 937
5557	W Kennedy Blvd	\$ -	\$ -	\$ -	\$ 369,397	\$ 405,163	\$ 440,929	\$ -	\$ -	\$ 11,082	\$ 7,746	\$ 4,230	\$ 23,058
5564	W Kennedy Blvd	\$ -	\$ 286,908	\$ 330,621	\$ 346,517	\$ 382,283	\$ 418,049	\$ 32,994	\$ 30,876	\$ 20,314	\$ 7,288	\$ 4,002	\$ 95,475
5576	W Kennedy Blvd	\$ -	\$ 304,508	\$ 348,221	\$ 364,117	\$ 399,883	\$ 435,649	\$ 35,018	\$ 32,636	\$ 21,370	\$ 7,640	\$ 4,178	\$ 100,843
5585	W Kennedy Blvd	\$ -	\$ 296,588	\$ 340,301	\$ 356,197	\$ 391,963	\$ 427,729	\$ 34,108	\$ 31,844	\$ 20,895	\$ 7,482	\$ 4,098	\$ 98,427
5608	W Kennedy Blvd	\$ -	\$ 293,920	\$ 293,920	\$ 293,920	\$ 293,920	\$ 297,894	\$ 33,801	\$ 29,392	\$ 17,635	\$ 5,878	\$ 2,959	\$ 89,665
5613	W Kennedy Blvd	\$ 293,920	\$ 293,920	\$ 293,920	\$ 293,920	\$ 293,920	\$ 297,894	\$ 67,602	\$ 29,392	\$ 17,635	\$ 5,878	\$ 2,959	\$ 123,466
5636	W Kennedy Blvd	\$ -	\$ -	\$ 293,920	\$ 293,920	\$ 293,920	\$ 297,894	\$ -	\$ 14,696	\$ 17,635	\$ 5,878	\$ 2,959	\$ 41,169
5648	W Kennedy Blvd	\$ -	\$ -	\$ -	\$ 293,920	\$ 293,920	\$ 297,894	\$ -	\$ -	\$ 8,818	\$ 5,878	\$ 2,959	\$ 17,655
5664	W Kennedy Blvd	\$ 318,644	\$ -	\$ 338,514	\$ 346,461	\$ 374,279	\$ 406,071	\$ 36,644	\$ 16,926	\$ 20,549	\$ 7,207	\$ 3,902	\$ 85,228
5667	W Kennedy Blvd	\$ 316,884	\$ -	\$ -	\$ 344,701	\$ 372,519	\$ 404,311	\$ 36,442	\$ -	\$ 10,341	\$ 7,172	\$ 3,884	\$ 57,839
6181	W North A St	\$ 81,273	\$ 81,538	\$ 81,803	\$ 82,068	\$ 82,731	\$ 83,327	\$ 18,723	\$ 8,167	\$ 4,916	\$ 1,648	\$ 830	\$ 34,285
6246	W North A St	\$ 40,597	\$ 40,597	\$ 40,929	\$ 41,061	\$ 41,525	\$ 42,055	\$ 9,337	\$ 4,076	\$ 2,460	\$ 826	\$ 418	\$ 17,117
6249	W North A St	\$ 40,357	\$ 40,357	\$ 40,689	\$ 40,821	\$ 41,285	\$ 41,815	\$ 9,282	\$ 4,052	\$ 2,445	\$ 821	\$ 415	\$ 17,016
6404	W North A St	\$ -	\$ -	\$ -	\$ 80,206	\$ 80,802	\$ 81,398	\$ -	\$ -	\$ 2,406	\$ 1,610	\$ 811	\$ 4,827

Unique ID	Road Name	Mean Total Flooding Cost	5-yr/1-d Total Flooding Cost	10-yr/1-d Total Flooding Cost	25-yr/1-d Total Flooding Cost	50-yr/1-d Total Flooding Cost	100-yr/1-d Total Flooding Cost	0.23 Interval x Avg. Cost for Interval	0.1 Interval x Avg. Cost for Interval	0.06 Interval x Avg. Cost for Interval	0.02 Interval x Avg. Cost for Interval	0.01 Interval x Avg. Cost for Interval	Total Expected Annual Damages
6433	W North A St	\$ 81,273	\$ 81,538	\$ 81,803	\$ 82,068	\$ 82,731	\$ 83,327	\$ 18,723	\$ 8,167	\$ 4,916	\$ 1,648	\$ 830	\$ 34,285
6558	W North B St	\$ 81,273	\$ 81,538	\$ 81,803	\$ 82,135	\$ 82,797	\$ 83,393	\$ 18,723	\$ 8,167	\$ 4,918	\$ 1,649	\$ 831	\$ 34,289
6561	W North B St	\$ 81,153	\$ 81,418	\$ 81,683	\$ 82,015	\$ 82,677	\$ 83,273	\$ 18,696	\$ 8,155	\$ 4,911	\$ 1,647	\$ 830	\$ 34,238
6587	W North B St	\$ 81,273	\$ 81,538	\$ 81,803	\$ 82,135	\$ 82,797	\$ 83,393	\$ 18,723	\$ 8,167	\$ 4,918	\$ 1,649	\$ 831	\$ 34,289
6626	W North B St	\$ 40,796	\$ 40,862	\$ 41,127	\$ 41,260	\$ 41,657	\$ 42,187	\$ 9,391	\$ 4,099	\$ 2,472	\$ 829	\$ 419	\$ 17,210
6627	W North B St	\$ 40,676	\$ 40,742	\$ 41,007	\$ 41,140	\$ 41,537	\$ 42,067	\$ 9,363	\$ 4,087	\$ 2,464	\$ 827	\$ 418	\$ 17,160
6869	W Platt St	\$ -	\$ 246,754	\$ 261,656	\$ 274,074	\$ 296,428	\$ 318,782	\$ 28,377	\$ 25,420	\$ 16,072	\$ 5,705	\$ 3,076	\$ 78,650
6874	W Platt St	\$ 230,566	\$ 235,534	\$ 250,436	\$ 262,854	\$ 285,208	\$ 307,562	\$ 53,601	\$ 24,298	\$ 15,399	\$ 5,481	\$ 2,964	\$ 101,743
6896	W Platt St	\$ -	\$ -	\$ 240,310	\$ 242,794	\$ 257,696	\$ 277,566	\$ -	\$ 12,015	\$ 14,493	\$ 5,005	\$ 2,676	\$ 34,190
6900	W Platt St	\$ -	\$ -	\$ 240,970	\$ -	\$ -	\$ 278,226	\$ -	\$ 12,048	\$ 7,229	\$ -	\$ 1,391	\$ 20,669
7192	N Tampania Ave	\$ 40,879	\$ 41,143	\$ 41,408	\$ 41,607	\$ 41,872	\$ 42,004	\$ 9,433	\$ 4,128	\$ 2,490	\$ 835	\$ 419	\$ 17,305
7210	N Willow Ave	\$ -	\$ 60,957	\$ 62,812	\$ 63,739	\$ 63,739	\$ 65,594	\$ 7,010	\$ 6,188	\$ 3,797	\$ 1,275	\$ 647	\$ 18,917
7211	N Willow Ave	\$ -	\$ -	\$ 65,112	\$ 65,112	\$ 66,039	\$ 66,966	\$ -	\$ 3,256	\$ 3,907	\$ 1,312	\$ 665	\$ 9,139
7212	N Oregon Ave	\$ -	\$ 31,386	\$ 31,519	\$ 31,519	\$ 31,585	\$ 31,651	\$ 3,609	\$ 3,145	\$ 1,891	\$ 631	\$ 316	\$ 9,593

Total Sum of Expected Annual Damages \$ 3,936,988

$P = A \left[\frac{(1+i)^n - 1}{i(1+i)^n} \right]$	Present Value	
	<i>n</i> (years)	50
	<i>i</i> (yearly interest rate)	0.07
	<i>A</i>	\$ 3,936,988
	$(1+i)^n$	29.46
Present Value Road Flooding Cost		\$ 54,333,372

Unique ID	Road Name	Road Class	No. of Lanes	Road Length (ft)	Crown Elev. (ft)	Node Name	Prop. Mean Flood Depth (ft)	Prop. 5-yr/1-d Flood Depth (ft)	Prop. 10-yr/1-d Flood Depth (ft)	Prop. 25-yr/1-d Flood Depth (ft)	Prop. 50-yr/1-d Flood Depth (ft)	Prop. 100-yr/1-d Flood Depth (ft)	LOS
183	N Armenia Ave	Minor Arterial	2	265	20.15	1020	0	0	0	0	0	0.59	B
199	N Armenia Ave	Minor Arterial	2	267	19.80	1020	0	0	0	0	0.61	0.87	C
201	N Armenia Ave	Minor Arterial	2	265	19.80	1020	0	0	0	0	0.56	0.79	C
211	N Armenia Ave	Minor Arterial	2	531	20.10	1020	0	0	0	0	0	0.58	B
397	N Boulevard	Minor Arterial	4	719	9.55	2181	0	0	0	0	0.55	0.56	C
770	N Fremont Ave	Local	2	263	18.51	2260	0	0	0.89	0.87	0.92	0.99	B
771	N Fremont Ave	Local	2	267	18.39	2260	0	0	0.78	0.78	0.83	0.89	B
889	N Gilchrist Ave	Local	2	404	11.81	2245	0	0	1.05	1.2	1.46	1.58	B
1034	N Habana Ave	Local	2	266	22.36	1010	0.92	0.95	0.71	0.73	0.73	0.83	D
1055	N Habana Ave	Local	2	262	24.06	1010	0.8	0.8	0.83	0.78	0.78	0.83	D
1089	N Howard Ave	Minor Arterial	3	397	19.15	1050	0	0	0	0	0	0.77	B
1135	N Howard Ave	Minor Arterial	3	266	19.00	1030	0	0	0	0	0.54	0.71	C
1141	N Howard Ave	Minor Arterial	3	264	19.12	1030	0	0	0	0	0	0.58	B
1154	N Howard Ave	Minor Arterial	3	267	19.76	1030	0	0	0	0	0	0.92	B
1157	N Howard Ave	Minor Arterial	3	263	19.92	1030	0	0	0	0	0	0.79	B
1177	N Howard Ave	Minor Arterial	3	263	23.03	1030	0	0	0	0	0.69	0.76	C
1182	N Howard Ave	Minor Arterial	3	272	23.91	1030	0	0	0	1.17	1.17	1.18	D
1458	N Oregon Ave	Local	2	268	15.76	2255	0	0	1.22	1.27	1.44	1.47	B
1499	N Rome Ave	Local	2	101	15.53	2050	0	0	0.52	0.77	1.18	1.23	B
1505	N Rome Ave	Local	2	268	15.30	2050	0	0	0.73	0.98	1.34	1.44	B
1521	N Rome Ave	Local	2	270	15.67	2030	0	0	0	0.83	1.27	1.29	B
1525	N Rome Ave	Local	2	271	15.71	2030	0	0	0	0.75	1.21	1.21	B
2166	S Dakota Ave	Local	2	321	14.14	7010	0.55	0.79	1.25	1.48	1.72	1.95	C
2169	S Dakota Ave	Local	2	569	14.71	7010	0.56	0.88	1.36	1.57	1.83	2.06	C
2321	S Edison Ave	Local	1	530	15.95	6020	0	0	0	0.75	1	1.11	B
2343	S Fremont Ave	Local	2	521	16.26	3020	0	0	0.57	0.77	0.81	1.01	B
2372	S Fremont Ave	Local	2	299	16.56	3030	0.71	1.18	1.19	1.19	1.43	1.43	C
2377	S Fremont Ave	Local	2	447	17.12	3030	0.72	1.11	1.32	1.16	1.37	1.55	C
2551	S Melville Ave	Local	2	513	16.19	3020	0	0	0.8	1	1.04	1.27	B
2552	S Melville Ave	Local	2	521	16.20	3020	0	0	0.52	0.79	0.91	0.96	B
2582	S Melville Ave	Local	2	299	16.81	3030	0.7	0.93	0.78	0.83	0.95	1.15	C
2584	S Melville Ave	Local	2	448	16.91	3030	0.82	1.06	1.11	1.15	1.27	1.37	D
2910	S Packwood Ave	Local	2	521	15.94	3050	0	0	0.79	0.98	0.98	1.02	B
2983	S Rome Ave	Local	2	626	20.14	3040	0.94	0.95	0.94	0.95	1.08	0.94	D
3094	S Westland Ave	Local	2	512	17.86	3010	0	0.54	0.71	0.78	0.94	1.02	B
3104	S Westland Ave	Local	2	522	18.10	3010	0	0	0	0.91	1.08	1.04	B
3336	W Azelee St	Local	2	166	16.53	3030	0.75	1.21	1.27	1.27	1.5	1.5	D
3349	W Azelee St	Local	2	334	16.59	3030	0.71	0.97	1.29	1.29	1.48	1.52	C
3350	W Azelee St	Local	2	328	16.73	3030	0.69	0.93	0.97	1.01	1.14	1.23	C
3633	W Carmen St	Local	2	658	20.35	1020	0.76	0.76	0.78	0.81	0.82	0.83	D
3837	W Cass St	Minor Arterial	2	671	19.53	1030	0	0	0	0	0	0.91	B
3980	W Cleveland St	Minor Arterial	3	331	16.55	6020	0	0	0.54	0.68	0.94	1.16	D
3981	W Cleveland St	Minor Arterial	3	330	16.26	6020	0	0	0.68	0.91	1.14	1.38	D
3995	W Cleveland St	Minor Arterial	3	335	16.44	6020	0	0	0	0	0.67	0.9	C

Unique ID	Road Name	Road Class	No. of Lanes	Road Length (ft)	Crown Elev. (ft)	Node Name	Prop. Mean Flood Depth (ft)	Prop. 5-yr/1-d Flood Depth (ft)	Prop. 10-yr/1-d Flood Depth (ft)	Prop. 25-yr/1-d Flood Depth (ft)	Prop. 50-yr/1-d Flood Depth (ft)	Prop. 100-yr/1-d Flood Depth (ft)	LOS
4008	W Cleveland St	Minor Arterial	3	340	16.60	6020	0	0	0	0	0	0.57	B
4031	W Cleveland St	Minor Arterial	3	665	17.34	5030	0	0	0.62	0.63	0.63	0.62	D
4060	W Cleveland St	Minor Arterial	3	334	16.83	4010	0	0	0	0	0	0.67	B
4062	W Cleveland St	Minor Arterial	3	326	16.93	4010	0	0	0	0	0	0.76	B
4085	W Cleveland St	Minor Arterial	3	338	16.02	3020	0.73	0.97	1.34	1.57	1.8	2.03	E
4100	W Cleveland St	Minor Arterial	3	330	16.31	3020	0	0	0.6	0.78	0.86	1	D
4113	W Cleveland St	Minor Arterial	3	333	16.60	3020	0	0.51	0.9	1.13	1.21	1.39	E
4114	W Cleveland St	Minor Arterial	3	334	16.72	3020	0	0	0.83	1.03	1.17	1.26	D
4139	W Cleveland St	Minor Arterial	3	335	17.69	3010	0	0	0.6	0.7	0.81	0.9	D
4143	W Cleveland St	Minor Arterial	3	335	17.87	3010	0	0	0.59	0.68	0.78	0.84	D
4262	W Cypress St	Collector - Minor	2	143	11.38	2240	0	0	0	0.63	0.87	0.99	B
4271	W Cypress St	Collector - Minor	2	120	11.98	2240	0	0	0.92	1.02	1.32	1.48	C
4281	W Cypress St	Collector - Minor	2	267	13.00	2245	0	0	0.66	1.06	1.35	1.6	B
4283	W Cypress St	Collector - Minor	2	278	13.12	2245	0	0	0.55	0.89	1.21	1.5	B
4307	W Cypress St	Collector - Minor	2	675	15.08	2250	0	0	1.31	1.45	1.51	1.51	C
4325	W Cypress St	Collector - Minor	2	670	16.45	2255	0	0	1.2	1.2	1.34	1.48	C
4652	W De Leon St	Minor Arterial	2	330	14.53	7010	0	0	0.88	1.06	1.35	1.57	D
4653	W De Leon St	Minor Arterial	2	333	14.31	7010	0	0.73	1.23	1.47	1.7	1.93	E
5501	W Kennedy Blvd	Principal Arterial	4	265	17.76	6010	0	0	0.62	0.74	0.81	0.85	D
5502	W Kennedy Blvd	Principal Arterial	4	67	17.66	6010	0	0	0.64	0.67	0.81	0.91	D
5506	W Kennedy Blvd	Principal Arterial	4	195	17.58	6010	0	0	0	0	0	0.52	B
5528	W Kennedy Blvd	Principal Arterial	4	206	18.77	6010	0	0	0.52	0	0	0	D
5569	W Kennedy Blvd	Principal Arterial	4	317	15.55	5010	0	0	0.54	0.64	0.92	1.13	D
5581	W Kennedy Blvd	Principal Arterial	4	337	16.32	5010	0	0	0.54	0.63	0.91	1.11	D
5591	W Kennedy Blvd	Principal Arterial	4	328	17.11	5010	0	0.51	0.69	0.71	0.84	0.9	E
5609	W Kennedy Blvd	Principal Arterial	4	334	16.76	2070	0	0	0.7	0.85	1.02	1.13	D
5613	W Kennedy Blvd	Principal Arterial	4	334	16.70	2070	0	0.54	0.71	0.74	0.9	1.01	E
5672	W Kennedy Blvd	Principal Arterial	4	333	19.47	1050	0	0	0.56	0.56	0.56	0.56	D
5840	W Lemon St	Local	2	671	18.16	2260	0	0	1.06	1.06	1.06	1.06	B
5852	W Lemon St	Local	2	671	18.15	2260	0	0	1.14	1.16	1.16	1.16	B
6431	W North A St	Local	2	669	15.03	2050	0	0	0.59	0.85	1.25	1.34	B
6559	W North B St	Local	2	669	15.28	2040	0	0	0.7	0.97	1.32	1.39	B
6769	W Platt St	Minor Arterial	3	336	13.11	6030	0	0	0	0	0	0.52	B
6870	W Platt St	Minor Arterial	3	340	16.11	3050	0	0	0	0	0	0.56	B
6875	W Platt St	Minor Arterial	3	323	16.39	3050	0	0	0	0.5	0.64	0.74	D
6885	W Platt St	Minor Arterial	3	334	17.22	3020	0	0	0	0.6	0.67	0.68	D
7042	W State St	Local	2	673	18.39	2260	0	0	0.61	0.75	0.8	0.82	B
7209	N Newport Ave	Local	2	402	12.80	2245	0	0	0	0.88	1.35	1.58	B
7210	N Willow Ave	Collector	2	261	14.04	2250	0	0	0.67	0.75	0.8	0.83	B
7211	N Willow Ave	Collector	2	271	14.22	2250	0	0	0.76	0.87	0.97	1.1	C

Unique ID	Road Name	Road Class	No. of Lanes	Road Length (ft)	Cost of Road Repair
183	N Armenia Ave	Minor Arterial	2	265	\$ 116,600
199	N Armenia Ave	Minor Arterial	2	267	\$ 117,480
201	N Armenia Ave	Minor Arterial	2	265	\$ 116,600
211	N Armenia Ave	Minor Arterial	2	531	\$ 233,640
397	N Boulevard	Minor Arterial	4	719	\$ 632,720
770	N Fremont Ave	Local	2	263	\$ 31,560
771	N Fremont Ave	Local	2	267	\$ 32,040
889	N Gilchrist Ave	Local	2	404	\$ 48,480
1034	N Habana Ave	Local	2	266	\$ 31,920
1055	N Habana Ave	Local	2	262	\$ 31,440
1089	N Howard Ave	Minor Arterial	3	397	\$ 262,020
1135	N Howard Ave	Minor Arterial	3	266	\$ 175,560
1141	N Howard Ave	Minor Arterial	3	264	\$ 174,240
1154	N Howard Ave	Minor Arterial	3	267	\$ 176,220
1157	N Howard Ave	Minor Arterial	3	263	\$ 173,580
1177	N Howard Ave	Minor Arterial	3	263	\$ 173,580
1182	N Howard Ave	Minor Arterial	3	272	\$ 179,520
1458	N Oregon Ave	Local	2	268	\$ 32,160
1499	N Rome Ave	Local	2	101	\$ 12,120
1505	N Rome Ave	Local	2	268	\$ 32,160
1521	N Rome Ave	Local	2	270	\$ 32,400
1525	N Rome Ave	Local	2	271	\$ 32,520
2166	S Dakota Ave	Local	2	321	\$ 38,520
2169	S Dakota Ave	Local	2	569	\$ 68,280
2321	S Edison Ave	Local	1	530	\$ 31,800
2343	S Fremont Ave	Local	2	521	\$ 62,520
2372	S Fremont Ave	Local	2	299	\$ 35,880
2377	S Fremont Ave	Local	2	447	\$ 53,640
2551	S Melville Ave	Local	2	513	\$ 61,560
2552	S Melville Ave	Local	2	521	\$ 62,520
2582	S Melville Ave	Local	2	299	\$ 35,880
2584	S Melville Ave	Local	2	448	\$ 53,760
2910	S Packwood Ave	Local	2	521	\$ 62,520
2983	S Rome Ave	Local	2	626	\$ 75,120
3094	S Westland Ave	Local	2	512	\$ 61,440
3104	S Westland Ave	Local	2	522	\$ 62,640
3336	W Azeele St	Local	2	166	\$ 19,920
3349	W Azeele St	Local	2	334	\$ 40,080
3350	W Azeele St	Local	2	328	\$ 39,360
3633	W Carmen St	Local	2	658	\$ 78,960
3837	W Cass St	Minor Arterial	2	671	\$ 295,240
3980	W Cleveland St	Minor Arterial	3	331	\$ 218,460
3981	W Cleveland St	Minor Arterial	3	330	\$ 217,800
3995	W Cleveland St	Minor Arterial	3	335	\$ 221,100
4008	W Cleveland St	Minor Arterial	3	340	\$ 224,400
4031	W Cleveland St	Minor Arterial	3	665	\$ 438,900

Unique ID	Road Name	Road Class	No. of Lanes	Road Length (ft)	Cost of Road Repair
4060	W Cleveland St	Minor Arterial	3	334	\$ 220,440
4062	W Cleveland St	Minor Arterial	3	326	\$ 215,160
4085	W Cleveland St	Minor Arterial	3	338	\$ 223,080
4100	W Cleveland St	Minor Arterial	3	330	\$ 217,800
4113	W Cleveland St	Minor Arterial	3	333	\$ 219,780
4114	W Cleveland St	Minor Arterial	3	334	\$ 220,440
4139	W Cleveland St	Minor Arterial	3	335	\$ 221,100
4143	W Cleveland St	Minor Arterial	3	335	\$ 221,100
4262	W Cypress St	Collector - Minor	2	143	\$ 32,890
4271	W Cypress St	Collector - Minor	2	120	\$ 27,600
4281	W Cypress St	Collector - Minor	2	267	\$ 61,410
4283	W Cypress St	Collector - Minor	2	278	\$ 63,940
4307	W Cypress St	Collector - Minor	2	675	\$ 155,250
4325	W Cypress St	Collector - Minor	2	670	\$ 154,100
4652	W De Leon St	Minor Arterial	2	330	\$ 145,200
4653	W De Leon St	Minor Arterial	2	333	\$ 146,520
5501	W Kennedy Blvd	Principal Arterial	4	265	\$ 233,200
5502	W Kennedy Blvd	Principal Arterial	4	67	\$ 58,960
5506	W Kennedy Blvd	Principal Arterial	4	195	\$ 171,600
5528	W Kennedy Blvd	Principal Arterial	4	206	\$ 181,280
5569	W Kennedy Blvd	Principal Arterial	4	317	\$ 278,960
5581	W Kennedy Blvd	Principal Arterial	4	337	\$ 296,560
5591	W Kennedy Blvd	Principal Arterial	4	328	\$ 288,640
5609	W Kennedy Blvd	Principal Arterial	4	334	\$ 293,920
5613	W Kennedy Blvd	Principal Arterial	4	334	\$ 293,920
5672	W Kennedy Blvd	Principal Arterial	4	333	\$ 293,040
5840	W Lemon St	Local	2	671	\$ 80,520
5852	W Lemon St	Local	2	671	\$ 80,520
6431	W North A St	Local	2	669	\$ 80,280
6559	W North B St	Local	2	669	\$ 80,280
6769	W Platt St	Minor Arterial	3	336	\$ 221,760
6870	W Platt St	Minor Arterial	3	340	\$ 224,400
6875	W Platt St	Minor Arterial	3	323	\$ 213,180
6885	W Platt St	Minor Arterial	3	334	\$ 220,440
7042	W State St	Local	2	673	\$ 80,760
7209	N Newport Ave	Local	2	402	\$ 48,240
7210	N Willow Ave	Collector	2	261	\$ 60,030
7211	N Willow Ave	Collector	2	271	\$ 62,330

Road Class	Cost per Lane-Foot
Principal Arterial	220
Minor Arterial	220
Collector	115
Collector - Minor	115
Local	60

Unique ID	Road Name	Road Class	No. of Lanes	Road Length (ft)	Node Name	Prop. Mean Flood Depth (ft)	Prop. 5-yr/1-d Flood Depth (ft)	Prop. 10-yr/1-d Flood Depth (ft)	Prop. 25-yr/1-d Flood Depth (ft)	Prop. 50-yr/1-d Flood Depth (ft)	Prop. 100-yr/1-d Flood Depth (ft)	Prop. Mean Delay Cost	Prop. 5-yr/1-d Delay Cost	Prop. 10-yr/1-d Delay Cost	Prop. 25-yr/1-d Delay Cost	Prop. 50-yr/1-d Delay Cost	Prop. 100-yr/1-d Delay Cost
183	N Armenia Ave	Minor Arterial	2	265	1020	0	0	0	0	0	0.59	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 9,935
199	N Armenia Ave	Minor Arterial	2	267	1020	0	0	0	0	0.61	0.87	\$ -	\$ -	\$ -	\$ -	\$ 9,935	\$ 9,935
201	N Armenia Ave	Minor Arterial	2	265	1020	0	0	0	0	0.56	0.79	\$ -	\$ -	\$ -	\$ -	\$ 9,935	\$ 9,935
211	N Armenia Ave	Minor Arterial	2	531	1020	0	0	0	0	0	0.58	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 9,935
397	N Boulevard	Minor Arterial	4	719	2181	0	0	0	0	0.55	0.56	\$ -	\$ -	\$ -	\$ -	\$ 2,484	\$ 7,451
770	N Fremont Ave	Local	2	263	2260	0	0	0.89	0.87	0.92	0.99	\$ -	\$ -	\$ 66	\$ 66	\$ 132	\$ 265
771	N Fremont Ave	Local	2	267	2260	0	0	0.78	0.78	0.83	0.89	\$ -	\$ -	\$ 66	\$ 66	\$ 132	\$ 265
889	N Gilchrist Ave	Local	2	404	2245	0	0	1.05	1.2	1.46	1.58	\$ -	\$ -	\$ 265	\$ 331	\$ 331	\$ 397
1034	N Habana Ave	Local	2	266	1010	0.92	0.95	0.71	0.73	0.73	0.83	\$ 66	\$ 66	\$ 132	\$ 132	\$ 265	\$ 265
1055	N Habana Ave	Local	2	262	1010	0.8	0.8	0.83	0.78	0.78	0.83	\$ 66	\$ 66	\$ 132	\$ 132	\$ 265	\$ 265
1089	N Howard Ave	Minor Arterial	3	397	1050	0	0	0	0	0	0.77	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 9,935
1135	N Howard Ave	Minor Arterial	3	266	1030	0	0	0	0	0.54	0.71	\$ -	\$ -	\$ -	\$ -	\$ 9,935	\$ 9,935
1141	N Howard Ave	Minor Arterial	3	264	1030	0	0	0	0	0	0.58	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 9,935
1154	N Howard Ave	Minor Arterial	3	267	1030	0	0	0	0	0	0.92	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 9,935
1157	N Howard Ave	Minor Arterial	3	263	1030	0	0	0	0	0	0.79	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 9,935
1177	N Howard Ave	Minor Arterial	3	263	1030	0	0	0	0	0.69	0.76	\$ -	\$ -	\$ -	\$ -	\$ 9,935	\$ 9,935
1182	N Howard Ave	Minor Arterial	3	272	1030	0	0	0	1.17	1.17	1.18	\$ -	\$ -	\$ -	\$ 4,967	\$ 9,935	\$ 9,935
1458	N Oregon Ave	Local	2	268	2255	0	0	1.22	1.27	1.44	1.47	\$ -	\$ -	\$ 265	\$ 331	\$ 331	\$ 397
1499	N Rome Ave	Local	2	101	2050	0	0	0.52	0.77	1.18	1.23	\$ -	\$ -	\$ 132	\$ 132	\$ 265	\$ 265
1505	N Rome Ave	Local	2	268	2050	0	0	0.73	0.98	1.34	1.44	\$ -	\$ -	\$ 132	\$ 132	\$ 265	\$ 265
1521	N Rome Ave	Local	2	270	2030	0	0	0	0.83	1.27	1.29	\$ -	\$ -	\$ -	\$ 132	\$ 265	\$ 265
1525	N Rome Ave	Local	2	271	2030	0	0	0	0.75	1.21	1.21	\$ -	\$ -	\$ -	\$ 132	\$ 265	\$ 265
2166	S Dakota Ave	Local	2	321	7010	0.55	0.79	1.25	1.48	1.72	1.95	\$ 132	\$ 199	\$ 265	\$ 265	\$ 265	\$ 464
2169	S Dakota Ave	Local	2	569	7010	0.56	0.88	1.36	1.57	1.83	2.06	\$ 132	\$ 199	\$ 265	\$ 265	\$ 265	\$ 464
2321	S Edison Ave	Local	1	530	6020	0	0	0	0.75	1	1.11	\$ -	\$ -	\$ -	\$ 66	\$ 265	\$ 331
2343	S Fremont Ave	Local	2	521	3020	0	0	0.57	0.77	0.81	1.01	\$ -	\$ -	\$ 265	\$ 331	\$ 331	\$ 397
2372	S Fremont Ave	Local	2	299	3030	0.71	1.18	1.19	1.19	1.43	1.43	\$ 397	\$ 397	\$ 530	\$ 662	\$ 795	\$ 993
2377	S Fremont Ave	Local	2	447	3030	0.72	1.11	1.32	1.16	1.37	1.55	\$ 397	\$ 397	\$ 530	\$ 662	\$ 795	\$ 993
2551	S Melville Ave	Local	2	513	3020	0	0	0.8	1	1.04	1.27	\$ -	\$ -	\$ 265	\$ 331	\$ 331	\$ 397
2552	S Melville Ave	Local	2	521	3020	0	0	0.52	0.79	0.91	0.96	\$ -	\$ -	\$ 265	\$ 331	\$ 331	\$ 397
2582	S Melville Ave	Local	2	299	3030	0.7	0.93	0.78	0.83	0.95	1.15	\$ 397	\$ 397	\$ 530	\$ 662	\$ 795	\$ 993
2584	S Melville Ave	Local	2	448	3030	0.82	1.06	1.11	1.15	1.27	1.37	\$ 397	\$ 397	\$ 530	\$ 662	\$ 795	\$ 993
2910	S Packwood Ave	Local	2	521	3050	0	0	0.79	0.98	0.98	1.02	\$ -	\$ -	\$ 464	\$ 530	\$ 662	\$ 861
2983	S Rome Ave	Local	2	626	3040	0.94	0.95	0.94	0.95	1.08	0.94	\$ 265	\$ 265	\$ 331	\$ 331	\$ 331	\$ 464
3094	S Westland Ave	Local	2	512	3010	0	0.54	0.71	0.78	0.94	1.02	\$ -	\$ 132	\$ 199	\$ 199	\$ 265	\$ 265
3104	S Westland Ave	Local	2	522	3010	0	0	0	0.91	1.08	1.04	\$ -	\$ -	\$ 199	\$ 265	\$ 265	\$ 265
3336	W Azeele St	Local	2	166	3030	0.75	1.21	1.27	1.27	1.5	1.5	\$ 397	\$ 397	\$ 530	\$ 662	\$ 795	\$ 993
3349	W Azeele St	Local	2	334	3030	0.71	0.97	1.29	1.29	1.48	1.52	\$ 397	\$ 397	\$ 530	\$ 662	\$ 795	\$ 993
3350	W Azeele St	Local	2	328	3030	0.69	0.93	0.97	1.01	1.14	1.23	\$ 397	\$ 397	\$ 530	\$ 662	\$ 795	\$ 993
3633	W Carmen St	Local	2	658	1020	0.76	0.76	0.78	0.81	0.82	0.83	\$ 66	\$ 66	\$ 132	\$ 132	\$ 265	\$ 265
3837	W Cass St	Minor Arterial	2	671	1030	0	0	0	0	0	0.91	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 9,935
3980	W Cleveland St	Minor Arterial	3	331	6020	0	0	0.54	0.68	0.94	1.16	\$ -	\$ -	\$ 4,967	\$ 2,484	\$ 9,935	\$ 12,419
3981	W Cleveland St	Minor Arterial	3	330	6020	0	0	0.68	0.91	1.14	1.38	\$ -	\$ -	\$ 4,967	\$ 2,484	\$ 9,935	\$ 12,419
3995	W Cleveland St	Minor Arterial	3	335	6020	0	0	0	0	0.67	0.9	\$ -	\$ -	\$ -	\$ -	\$ 9,935	\$ 12,419
4008	W Cleveland St	Minor Arterial	3	340	6020	0	0	0	0	0.57	0.57	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 12,419
4031	W Cleveland St	Minor Arterial	3	665	5030	0	0	0.62	0.63	0.63	0.62	\$ -	\$ -	\$ 7,451	\$ 12,419	\$ 14,902	\$ 17,386
4060	W Cleveland St	Minor Arterial	3	334	4010	0	0	0	0	0	0.67	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 17,386
4062	W Cleveland St	Minor Arterial	3	326	4010	0	0	0	0	0	0.76	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 17,386
4085	W Cleveland St	Minor Arterial	3	338	3020	0.73	0.97	1.34	1.57	1.8	2.03	\$ 4,967	\$ 7,451	\$ 9,935	\$ 12,419	\$ 12,419	\$ 14,902
4100	W Cleveland St	Minor Arterial	3	330	3020	0	0	0.6	0.78	0.86	1	\$ -	\$ -	\$ 9,935	\$ 12,419	\$ 12,419	\$ 14,902
4113	W Cleveland St	Minor Arterial	3	333	3020	0	0.51	0.9	1.13	1.21	1.39	\$ -	\$ 7,451	\$ 9,935	\$ 12,419	\$ 12,419	\$ 14,902
4114	W Cleveland St	Minor Arterial	3	334	3020	0	0	0.83	1.03	1.17	1.26	\$ -	\$ -	\$ 9,935	\$ 12,419	\$ 12,419	\$ 14,902
4139	W Cleveland St	Minor Arterial	3	335	3010	0	0	0.6	0.7	0.81	0.9	\$ -	\$ -	\$ 7,451	\$ 7,451	\$ 9,935	\$ 9,935
4143	W Cleveland St	Minor Arterial	3	335	3010	0	0	0.59	0.68	0.78	0.84	\$ -	\$ -	\$ 7,451	\$ 7,451	\$ 9,935	\$ 9,935
4262	W Cypress St	Collector - Minor	2	143	2240	0	0	0	0.63	0.87	0.99	\$ -	\$ -	\$ -	\$ 1,739	\$ 1,739	\$ 2,086
4271	W Cypress St	Collector - Minor	2	120	2240	0	0	0.92	1.02	1.32	1.48	\$ -	\$ -	\$ 1,391	\$ 1,739	\$ 1,739	\$ 2,086
4281	W Cypress St	Collector - Minor	2	267	2245	0	0	0.66	1.06	1.35	1.6	\$ -	\$ -	\$ 1,391	\$ 1,739	\$ 1,739	\$ 2,086
4283	W Cypress St	Collector - Minor	2	278	2245	0	0	0.55	0.89	1.21	1.5	\$ -	\$ -	\$ 1,391	\$ 1,739	\$ 1,739	\$ 2,086
4307	W Cypress St	Collector - Minor	2	675	2250	0	0	1.31	1.45	1.51	1.51	\$ -	\$ -	\$ 1,391	\$ 1,739	\$ 1,739	\$ 2,086
4325	W Cypress St	Collector - Minor	2	670	2255	0	0	1.2	1.2	1.34	1.48	\$ -	\$ -	\$ 1,391	\$ 1,739	\$ 1,739	\$ 2,086
4652	W De Leon St	Minor Arterial	2	330	7010	0	0	0.88	1.06	1.35	1.57	\$ -	\$ -	\$ 9,935	\$ 9,935	\$ 9,935	\$ 17,386
4653	W De Leon St	Minor Arterial	2	333	7010	0	0.73	1.23	1.47	1.7	1.93	\$ -	\$ 7,451	\$ 9,935	\$ 9,935	\$ 9,935	\$ 17,386
5501	W Kennedy Blvd	Principal Arterial	4	265	6010	0	0	0.62	0.74	0.81	0.85	\$ -	\$ -	\$ 7,948	\$ 3,974	\$ 15,896	\$ 19,870
5502	W Kennedy Blvd	Principal Arterial	4	67	6010	0	0	0.64	0.67	0.81	0.91	\$ -	\$ -	\$ 7,948	\$ 3,974	\$ 15,896	\$ 19,870

Unique ID	Road Name	Road Class	No. of Lanes	Road Length (ft)	Node Name	Prop. Mean Flood Depth (ft)	Prop. 5-yr/1-d Flood Depth (ft)	Prop. 10-yr/1-d Flood Depth (ft)	Prop. 25-yr/1-d Flood Depth (ft)	Prop. 50-yr/1-d Flood Depth (ft)	Prop. 100-yr/1-d Flood Depth (ft)	Prop. Mean Delay Cost	Prop. 5-yr/1-d Delay Cost	Prop. 10-yr/1-d Delay Cost	Prop. 25-yr/1-d Delay Cost	Prop. 50-yr/1-d Delay Cost	Prop. 100-yr/1-d Delay Cost
5506	W Kennedy Blvd	Principal Arterial	4	195	6010	0	0	0	0	0	0.52	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 19,870
5528	W Kennedy Blvd	Principal Arterial	4	206	6010	0	0	0.52	0	0	0	\$ -	\$ -	\$ 7,948	\$ -	\$ -	\$ -
5569	W Kennedy Blvd	Principal Arterial	4	317	5010	0	0	0.54	0.64	0.92	1.13	\$ -	\$ -	\$ 11,922	\$ 19,870	\$ 23,844	\$ 27,818
5581	W Kennedy Blvd	Principal Arterial	4	337	5010	0	0	0.54	0.63	0.91	1.11	\$ -	\$ -	\$ 11,922	\$ 19,870	\$ 23,844	\$ 27,818
5591	W Kennedy Blvd	Principal Arterial	4	328	5010	0	0.51	0.69	0.71	0.84	0.9	\$ -	\$ 7,948	\$ 11,922	\$ 19,870	\$ 23,844	\$ 27,818
5609	W Kennedy Blvd	Principal Arterial	4	334	2070	0	0	0.7	0.85	1.02	1.13	\$ -	\$ -	\$ 7,948	\$ 7,948	\$ 15,896	\$ 15,896
5613	W Kennedy Blvd	Principal Arterial	4	334	2070	0	0.54	0.71	0.74	0.9	1.01	\$ -	\$ 7,948	\$ 7,948	\$ 7,948	\$ 15,896	\$ 15,896
5672	W Kennedy Blvd	Principal Arterial	4	333	1050	0	0	0.56	0.56	0.56	0.56	\$ -	\$ -	\$ 7,948	\$ 7,948	\$ 15,896	\$ 15,896
5840	W Lemon St	Local	2	671	2260	0	0	1.06	1.06	1.06	1.06	\$ -	\$ -	\$ 66	\$ 66	\$ 132	\$ 265
5852	W Lemon St	Local	2	671	2260	0	0	1.14	1.16	1.16	1.16	\$ -	\$ -	\$ 66	\$ 66	\$ 132	\$ 265
6431	W North A St	Local	2	669	2050	0	0	0.59	0.85	1.25	1.34	\$ -	\$ -	\$ 132	\$ 132	\$ 265	\$ 265
6559	W North B St	Local	2	669	2040	0	0	0.7	0.97	1.32	1.39	\$ -	\$ -	\$ 132	\$ 132	\$ 265	\$ 265
6769	W Platt St	Minor Arterial	3	336	6030	0	0	0	0	0	0.52	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 9,935
6870	W Platt St	Minor Arterial	3	340	3050	0	0	0	0	0	0.56	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 32,288
6875	W Platt St	Minor Arterial	3	323	3050	0	0	0	0.5	0.64	0.74	\$ -	\$ -	\$ -	\$ 19,870	\$ 24,837	\$ 32,288
6885	W Platt St	Minor Arterial	3	334	3020	0	0	0	0.6	0.67	0.68	\$ -	\$ -	\$ -	\$ 12,419	\$ 12,419	\$ 14,902
7042	W State St	Local	2	673	2260	0	0	0.61	0.75	0.8	0.82	\$ -	\$ -	\$ 66	\$ 66	\$ 132	\$ 265
7209	N Newport Ave	Local	2	402	2245	0	0	0	0.88	1.35	1.58	\$ -	\$ -	\$ -	\$ 331	\$ 331	\$ 397
7210	N Willow Ave	Collector	2	261	2250	0	0	0.67	0.75	0.8	0.83	\$ -	\$ -	\$ 3,709	\$ 4,636	\$ 4,636	\$ 5,564
7211	N Willow Ave	Collector	2	271	2250	0	0	0.76	0.87	0.97	1.1	\$ -	\$ -	\$ 3,709	\$ 4,636	\$ 4,636	\$ 5,564

Road Class	Vehicles per Day
Principal Arterial	20,000
Minor Arterial	15,000
Collector	7,000
Collector - Minor	3,500
Local	1,000

Road Class	Time (min)
Local	10
Collector - Minor	15
Collector	20
Minor Arterial	25
Principal Arterial	30

Node Name	Mean Flood Duration (hr)	5-yr/1-day Flood Duration (hr)	10-yr/1-day Flood Duration (hr)	25-yr/1-day Flood Duration (hr)	50-yr/1-day Flood Duration (hr)	100-yr/1-day Flood Duration (hr)
1010	0.25	0.25	0.5	0.5	1	1
1020	0.25	0.25	0.5	0.5	1	1
1030	0.25	0.25	0.5	0.5	1	1
1050	0.25	0.25	0.5	0.5	1	1
2030	0.25	0.5	0.5	0.5	1	1
2040	0.25	0.5	0.5	0.5	1	1
2050	0.25	0.5	0.5	0.5	1	1
2070	0.25	0.5	0.5	0.5	1	1
2181	0	0	0	0	0.25	0.75
2240	0	0.25	1	1.25	1.25	1.5
2245	0	0.25	1	1.25	1.25	1.5
2250	0	0.25	1	1.25	1.25	1.5
2255	0	0.25	1	1.25	1.25	1.5
2260	0	0	0.25	0.25	0.5	1
2275	0	0	0.25	0.25	0.5	1
3010	0.25	0.5	0.75	0.75	1	1
3020	0.5	0.75	1	1.25	1.25	1.5
3030	1.5	1.5	2	2.5	3	3.75
3040	1	1	1	1.25	1.25	1.75
3050	1.25	1.25	1.75	2	2.5	3.25
4010	0.25	0.5	0.75	1.25	1.5	1.75
5010	0.25	0.5	0.75	1.25	1.5	1.75
5030	0.25	0.5	0.75	1.25	1.5	1.75
6010	0	0	0.5	0.25	1	1.25
6020	0	0.25	0.5	0.25	1	1.25
6030	0	0	0.25	0.25	1	1
7010	0.5	0.75	1	1	1	1.75

Unique ID	Road Name	Prop. Mean Flood Depth (ft)	Prop. 5-yr/1-d Flood Depth (ft)	Prop. 10-yr/1-d Flood Depth (ft)	Prop. 25-yr/1-d Flood Depth (ft)	Prop. 50-yr/1-d Flood Depth (ft)	Prop. 100-yr/1-d Flood Depth (ft)	Mean Total Flooding Cost	5-yr/1-d Total Flooding Cost	10-yr/1-d Total Flooding Cost	25-yr/1-d Total Flooding Cost	50-yr/1-d Total Flooding Cost	100-yr/1-d Total Flooding Cost
183	N Armenia Ave	0	0	0	0	0	0.59	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 126,535
199	N Armenia Ave	0	0	0	0	0	0.61	\$ -	\$ -	\$ -	\$ -	\$ 127,415	\$ 127,415
201	N Armenia Ave	0	0	0	0	0	0.56	\$ -	\$ -	\$ -	\$ -	\$ 126,535	\$ 126,535
211	N Armenia Ave	0	0	0	0	0	0.58	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 243,575
397	N Boulevard	0	0	0	0	0	0.55	\$ -	\$ -	\$ -	\$ -	\$ 635,204	\$ 640,171
770	N Fremont Ave	0	0	0.89	0.87	0.92	0.99	\$ -	\$ -	\$ 31,626	\$ 31,626	\$ 31,692	\$ 31,825
771	N Fremont Ave	0	0	0.78	0.78	0.83	0.89	\$ -	\$ -	\$ 32,106	\$ 32,106	\$ 32,172	\$ 32,305
889	N Gilchrist Ave	0	0	1.05	1.2	1.46	1.58	\$ -	\$ -	\$ 48,745	\$ 48,811	\$ 48,811	\$ 48,877
1034	N Habana Ave	0.92	0.95	0.71	0.73	0.73	0.83	\$ 31,986	\$ 31,986	\$ 32,052	\$ 32,052	\$ 32,185	\$ 32,185
1055	N Habana Ave	0.8	0.8	0.83	0.78	0.78	0.83	\$ 31,506	\$ 31,506	\$ 31,572	\$ 31,572	\$ 31,705	\$ 31,705
1089	N Howard Ave	0	0	0	0	0	0.77	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 271,955
1135	N Howard Ave	0	0	0	0	0	0.54	\$ -	\$ -	\$ -	\$ -	\$ 185,495	\$ 185,495
1141	N Howard Ave	0	0	0	0	0	0.58	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 184,175
1154	N Howard Ave	0	0	0	0	0	0.92	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 186,155
1157	N Howard Ave	0	0	0	0	0	0.79	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 183,515
1177	N Howard Ave	0	0	0	0	0	0.69	\$ -	\$ -	\$ -	\$ -	\$ 183,515	\$ 183,515
1182	N Howard Ave	0	0	0	1.17	1.17	1.18	\$ -	\$ -	\$ -	\$ 184,487	\$ 189,455	\$ 189,455
1458	N Oregon Ave	0	0	1.22	1.27	1.44	1.47	\$ -	\$ -	\$ 32,425	\$ 32,491	\$ 32,491	\$ 32,557
1499	N Rome Ave	0	0	0.52	0.77	1.18	1.23	\$ -	\$ -	\$ 12,252	\$ 12,252	\$ 12,385	\$ 12,385
1505	N Rome Ave	0	0	0.73	0.98	1.34	1.44	\$ -	\$ -	\$ 32,292	\$ 32,292	\$ 32,425	\$ 32,425
1521	N Rome Ave	0	0	0	0.83	1.27	1.29	\$ -	\$ -	\$ -	\$ 32,532	\$ 32,665	\$ 32,665
1525	N Rome Ave	0	0	0	0.75	1.21	1.21	\$ -	\$ -	\$ -	\$ 32,652	\$ 32,785	\$ 32,785
2166	S Dakota Ave	0.55	0.79	1.25	1.48	1.72	1.95	\$ 38,652	\$ 38,719	\$ 38,785	\$ 38,785	\$ 38,785	\$ 38,984
2169	S Dakota Ave	0.56	0.88	1.36	1.57	1.83	2.06	\$ 68,412	\$ 68,479	\$ 68,545	\$ 68,545	\$ 68,545	\$ 68,744
2321	S Edison Ave	0	0	0	0.75	1	1.11	\$ -	\$ -	\$ -	\$ 31,866	\$ 32,065	\$ 32,131
2343	S Fremont Ave	0	0	0.57	0.77	0.81	1.01	\$ -	\$ -	\$ 62,785	\$ 62,851	\$ 62,851	\$ 62,917
2372	S Fremont Ave	0.71	1.18	1.19	1.19	1.43	1.43	\$ 36,277	\$ 36,277	\$ 36,410	\$ 36,542	\$ 36,675	\$ 36,873
2377	S Fremont Ave	0.72	1.11	1.32	1.16	1.37	1.55	\$ 54,037	\$ 54,037	\$ 54,170	\$ 54,302	\$ 54,435	\$ 54,633
2551	S Melville Ave	0	0	0.8	1	1.04	1.27	\$ -	\$ -	\$ 61,825	\$ 61,891	\$ 61,891	\$ 61,957
2552	S Melville Ave	0	0	0.52	0.79	0.91	0.96	\$ -	\$ -	\$ 62,785	\$ 62,851	\$ 62,851	\$ 62,917
2582	S Melville Ave	0.7	0.93	0.78	0.83	0.95	1.15	\$ 36,277	\$ 36,277	\$ 36,410	\$ 36,542	\$ 36,675	\$ 36,873
2584	S Melville Ave	0.82	1.06	1.11	1.15	1.27	1.37	\$ 54,157	\$ 54,157	\$ 54,290	\$ 54,422	\$ 54,555	\$ 54,753
2910	S Packwood Ave	0	0	0.79	0.98	0.98	1.02	\$ -	\$ -	\$ 62,984	\$ 63,050	\$ 63,182	\$ 63,381
2983	S Rome Ave	0.94	0.95	0.94	0.95	1.08	0.94	\$ 75,385	\$ 75,385	\$ 75,385	\$ 75,451	\$ 75,451	\$ 75,584
3094	S Westland Ave	0	0.54	0.71	0.78	0.94	1.02	\$ -	\$ 61,572	\$ 61,639	\$ 61,639	\$ 61,705	\$ 61,705
3104	S Westland Ave	0	0	0	0.91	1.08	1.04	\$ -	\$ -	\$ -	\$ 62,839	\$ 62,905	\$ 62,905
3336	W Azelee St	0.75	1.21	1.27	1.27	1.5	1.5	\$ 20,317	\$ 20,317	\$ 20,450	\$ 20,582	\$ 20,715	\$ 20,913
3349	W Azelee St	0.71	0.97	1.29	1.29	1.48	1.52	\$ 40,477	\$ 40,477	\$ 40,610	\$ 40,742	\$ 40,875	\$ 41,073
3350	W Azelee St	0.69	0.93	0.97	1.01	1.14	1.23	\$ 39,757	\$ 39,757	\$ 39,890	\$ 40,022	\$ 40,155	\$ 40,353
3633	W Carmen St	0.76	0.76	0.78	0.81	0.82	0.83	\$ 79,026	\$ 79,026	\$ 79,092	\$ 79,092	\$ 79,225	\$ 79,225
3837	W Cass St	0	0	0	0	0	0.91	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 305,175
3980	W Cleveland St	0	0	0.54	0.68	0.94	1.16	\$ -	\$ -	\$ 223,427	\$ 220,944	\$ 228,395	\$ 230,879
3981	W Cleveland St	0	0	0.68	0.91	1.14	1.38	\$ -	\$ -	\$ 222,767	\$ 220,284	\$ 227,735	\$ 230,219
3995	W Cleveland St	0	0	0	0	0.67	0.9	\$ -	\$ -	\$ -	\$ -	\$ 231,035	\$ 233,519
4008	W Cleveland St	0	0	0	0	0	0.57	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 236,819
4031	W Cleveland St	0	0	0.62	0.63	0.63	0.62	\$ -	\$ -	\$ 446,351	\$ 451,319	\$ 453,802	\$ 456,286
4060	W Cleveland St	0	0	0	0	0	0.67	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 237,826
4062	W Cleveland St	0	0	0	0	0	0.76	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 232,546
4085	W Cleveland St	0.73	0.97	1.34	1.57	1.8	2.03	\$ 228,047	\$ 230,531	\$ 233,015	\$ 235,499	\$ 235,499	\$ 237,982
4100	W Cleveland St	0	0	0.6	0.78	0.86	1	\$ -	\$ -	\$ 227,735	\$ 230,219	\$ 230,219	\$ 232,702
4113	W Cleveland St	0	0.51	0.9	1.13	1.21	1.39	\$ -	\$ 227,231	\$ 229,715	\$ 232,199	\$ 232,199	\$ 234,682
4114	W Cleveland St	0	0	0.83	1.03	1.17	1.26	\$ -	\$ -	\$ 230,375	\$ 232,859	\$ 232,859	\$ 235,342
4139	W Cleveland St	0	0	0.6	0.7	0.81	0.9	\$ -	\$ -	\$ 228,551	\$ 228,551	\$ 231,035	\$ 231,035
4143	W Cleveland St	0	0	0.59	0.68	0.78	0.84	\$ -	\$ -	\$ 228,551	\$ 228,551	\$ 231,035	\$ 231,035
4262	W Cypress St	0	0	0	0.63	0.87	0.99	\$ -	\$ -	\$ -	\$ 34,629	\$ 34,629	\$ 34,976

Unique ID	Road Name	Prop. Mean Flood Depth (ft)	Prop. 5-yr/1-d Flood Depth (ft)	Prop. 10-yr/1-d Flood Depth (ft)	Prop. 25-yr/1-d Flood Depth (ft)	Prop. 50-yr/1-d Flood Depth (ft)	Prop. 100-yr/1-d Flood Depth (ft)	Mean Total Flooding Cost	5-yr/1-d Total Flooding Cost	10-yr/1-d Total Flooding Cost	25-yr/1-d Total Flooding Cost	50-yr/1-d Total Flooding Cost	100-yr/1-d Total Flooding Cost
4271	W Cypress St	0	0	0.92	1.02	1.32	1.48	\$ -	\$ -	\$ 28,991	\$ 29,339	\$ 29,339	\$ 29,686
4281	W Cypress St	0	0	0.66	1.06	1.35	1.6	\$ -	\$ -	\$ 62,801	\$ 63,149	\$ 63,149	\$ 63,496
4283	W Cypress St	0	0	0.55	0.89	1.21	1.5	\$ -	\$ -	\$ 65,331	\$ 65,679	\$ 65,679	\$ 66,026
4307	W Cypress St	0	0	1.31	1.45	1.51	1.51	\$ -	\$ -	\$ 156,641	\$ 156,989	\$ 156,989	\$ 157,336
4325	W Cypress St	0	0	1.2	1.2	1.34	1.48	\$ -	\$ -	\$ 155,491	\$ 155,839	\$ 155,839	\$ 156,186
4652	W De Leon St	0	0	0.88	1.06	1.35	1.57	\$ -	\$ -	\$ 155,135	\$ 155,135	\$ 155,135	\$ 162,586
4653	W De Leon St	0	0.73	1.23	1.47	1.7	1.93	\$ -	\$ 153,971	\$ 156,455	\$ 156,455	\$ 156,455	\$ 163,906
5501	W Kennedy Blvd	0	0	0.62	0.74	0.81	0.85	\$ -	\$ -	\$ 241,148	\$ 237,174	\$ 249,096	\$ 253,070
5502	W Kennedy Blvd	0	0	0.64	0.67	0.81	0.91	\$ -	\$ -	\$ 66,908	\$ 62,934	\$ 74,856	\$ 78,830
5506	W Kennedy Blvd	0	0	0	0	0	0.52	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 191,470
5528	W Kennedy Blvd	0	0	0.52	0	0	0	\$ -	\$ -	\$ 189,228	\$ -	\$ -	\$ -
5569	W Kennedy Blvd	0	0	0.54	0.64	0.92	1.13	\$ -	\$ -	\$ 290,882	\$ 298,830	\$ 302,804	\$ 306,778
5581	W Kennedy Blvd	0	0	0.54	0.63	0.91	1.11	\$ -	\$ -	\$ 308,482	\$ 316,430	\$ 320,404	\$ 324,378
5591	W Kennedy Blvd	0	0.51	0.69	0.71	0.84	0.9	\$ -	\$ 296,588	\$ 300,562	\$ 308,510	\$ 312,484	\$ 316,458
5609	W Kennedy Blvd	0	0	0.7	0.85	1.02	1.13	\$ -	\$ -	\$ 301,868	\$ 301,868	\$ 309,816	\$ 309,816
5613	W Kennedy Blvd	0	0.54	0.71	0.74	0.9	1.01	\$ -	\$ 301,868	\$ 301,868	\$ 301,868	\$ 309,816	\$ 309,816
5672	W Kennedy Blvd	0	0	0.56	0.56	0.56	0.56	\$ -	\$ -	\$ 300,988	\$ 300,988	\$ 308,936	\$ 308,936
5840	W Lemon St	0	0	1.06	1.06	1.06	1.06	\$ -	\$ -	\$ 80,586	\$ 80,586	\$ 80,652	\$ 80,785
5852	W Lemon St	0	0	1.14	1.16	1.16	1.16	\$ -	\$ -	\$ 80,586	\$ 80,586	\$ 80,652	\$ 80,785
6431	W North A St	0	0	0.59	0.85	1.25	1.34	\$ -	\$ -	\$ 80,412	\$ 80,412	\$ 80,545	\$ 80,545
6559	W North B St	0	0	0.7	0.97	1.32	1.39	\$ -	\$ -	\$ 80,412	\$ 80,412	\$ 80,545	\$ 80,545
6769	W Platt St	0	0	0	0	0	0.52	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 231,695
6870	W Platt St	0	0	0	0	0	0.56	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 256,688
6875	W Platt St	0	0	0	0.5	0.64	0.74	\$ -	\$ -	\$ -	\$ 233,050	\$ 238,017	\$ 245,468
6885	W Platt St	0	0	0	0.6	0.67	0.68	\$ -	\$ -	\$ -	\$ 232,859	\$ 232,859	\$ 235,342
7042	W State St	0	0	0.61	0.75	0.8	0.82	\$ -	\$ -	\$ 80,826	\$ 80,826	\$ 80,892	\$ 81,025
7209	N Newport Ave	0	0	0	0.88	1.35	1.58	\$ -	\$ -	\$ -	\$ 48,571	\$ 48,571	\$ 48,637
7210	N Willow Ave	0	0	0.67	0.75	0.8	0.83	\$ -	\$ -	\$ 63,739	\$ 64,666	\$ 64,666	\$ 65,594
7211	N Willow Ave	0	0	0.76	0.87	0.97	1.1	\$ -	\$ -	\$ 66,039	\$ 66,966	\$ 66,966	\$ 67,894

Unique ID	Road Name	Mean Total Flooding Cost	5-yr/1-d Total Flooding Cost	10-yr/1-d Total Flooding Cost	25-yr/1-d Total Flooding Cost	50-yr/1-d Total Flooding Cost	100-yr/1-d Total Flooding Cost	0.23 Interval x Avg. Cost for Interval	0.1 Interval x Avg. Cost for Interval	0.06 Interval x Avg. Cost for Interval	0.02 Interval x Avg. Cost for Interval	0.01 Interval x Avg. Cost for Interval	Total Expected Annual Damages
183	N Armenia Ave	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 126,535	\$ -	\$ -	\$ -	\$ -	\$ 633	\$ 633
199	N Armenia Ave	\$ -	\$ -	\$ -	\$ -	\$ 127,415	\$ 127,415	\$ -	\$ -	\$ -	\$ 1,274	\$ 1,274	\$ 2,548
201	N Armenia Ave	\$ -	\$ -	\$ -	\$ -	\$ 126,535	\$ 126,535	\$ -	\$ -	\$ -	\$ 1,265	\$ 1,265	\$ 2,531
211	N Armenia Ave	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 243,575	\$ -	\$ -	\$ -	\$ -	\$ 1,218	\$ 1,218
397	N Boulevard	\$ -	\$ -	\$ -	\$ -	\$ 635,204	\$ 640,171	\$ -	\$ -	\$ -	\$ 6,352	\$ 6,377	\$ 12,729
770	N Fremont Ave	\$ -	\$ -	\$ 31,626	\$ 31,626	\$ 31,692	\$ 31,825	\$ -	\$ 1,581	\$ 1,898	\$ 633	\$ 318	\$ 4,430
771	N Fremont Ave	\$ -	\$ -	\$ 32,106	\$ 32,106	\$ 32,172	\$ 32,305	\$ -	\$ 1,605	\$ 1,926	\$ 643	\$ 322	\$ 4,497
889	N Gilchrist Ave	\$ -	\$ -	\$ 48,745	\$ 48,811	\$ 48,811	\$ 48,877	\$ -	\$ 2,437	\$ 2,927	\$ 976	\$ 488	\$ 6,829
1034	N Habana Ave	\$ 31,986	\$ 31,986	\$ 32,052	\$ 32,052	\$ 32,185	\$ 32,185	\$ 7,357	\$ 3,202	\$ 1,923	\$ 642	\$ 322	\$ 13,446
1055	N Habana Ave	\$ 31,506	\$ 31,506	\$ 31,572	\$ 31,572	\$ 31,705	\$ 31,705	\$ 7,246	\$ 3,154	\$ 1,894	\$ 633	\$ 317	\$ 13,245
1089	N Howard Ave	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 271,955	\$ -	\$ -	\$ -	\$ -	\$ 1,360	\$ 1,360
1135	N Howard Ave	\$ -	\$ -	\$ -	\$ -	\$ 185,495	\$ 185,495	\$ -	\$ -	\$ -	\$ 1,855	\$ 1,855	\$ 3,710
1141	N Howard Ave	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 184,175	\$ -	\$ -	\$ -	\$ -	\$ 921	\$ 921
1154	N Howard Ave	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 186,155	\$ -	\$ -	\$ -	\$ -	\$ 931	\$ 931
1157	N Howard Ave	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 183,515	\$ -	\$ -	\$ -	\$ -	\$ 918	\$ 918
1177	N Howard Ave	\$ -	\$ -	\$ -	\$ -	\$ 183,515	\$ 183,515	\$ -	\$ -	\$ -	\$ 1,835	\$ 1,835	\$ 3,670
1182	N Howard Ave	\$ -	\$ -	\$ -	\$ 184,487	\$ 189,455	\$ 189,455	\$ -	\$ -	\$ 5,535	\$ 3,739	\$ 1,895	\$ 11,169
1458	N Oregon Ave	\$ -	\$ -	\$ 32,425	\$ 32,491	\$ 32,491	\$ 32,557	\$ -	\$ 1,621	\$ 1,947	\$ 650	\$ 325	\$ 4,544
1499	N Rome Ave	\$ -	\$ -	\$ 12,252	\$ 12,252	\$ 12,385	\$ 12,385	\$ -	\$ 613	\$ 735	\$ 246	\$ 124	\$ 1,718
1505	N Rome Ave	\$ -	\$ -	\$ 32,292	\$ 32,292	\$ 32,425	\$ 32,425	\$ -	\$ 1,615	\$ 1,938	\$ 647	\$ 324	\$ 4,524
1521	N Rome Ave	\$ -	\$ -	\$ -	\$ 32,532	\$ 32,665	\$ 32,665	\$ -	\$ -	\$ 976	\$ 652	\$ 327	\$ 1,955
1525	N Rome Ave	\$ -	\$ -	\$ -	\$ 32,652	\$ 32,785	\$ 32,785	\$ -	\$ -	\$ 980	\$ 654	\$ 328	\$ 1,962
2166	S Dakota Ave	\$ 38,652	\$ 38,719	\$ 38,785	\$ 38,785	\$ 38,785	\$ 38,984	\$ 8,898	\$ 3,875	\$ 2,327	\$ 776	\$ 389	\$ 16,265
2169	S Dakota Ave	\$ 68,412	\$ 68,479	\$ 68,545	\$ 68,545	\$ 68,545	\$ 68,744	\$ 15,742	\$ 6,851	\$ 4,113	\$ 1,371	\$ 686	\$ 28,764
2321	S Edison Ave	\$ -	\$ -	\$ -	\$ 31,866	\$ 32,065	\$ 32,131	\$ -	\$ -	\$ 956	\$ 639	\$ 321	\$ 1,916
2343	S Fremont Ave	\$ -	\$ -	\$ 62,785	\$ 62,851	\$ 62,851	\$ 62,917	\$ -	\$ 3,139	\$ 3,769	\$ 1,257	\$ 629	\$ 8,794
2372	S Fremont Ave	\$ 36,277	\$ 36,277	\$ 36,410	\$ 36,542	\$ 36,675	\$ 36,873	\$ 8,344	\$ 3,634	\$ 2,189	\$ 732	\$ 368	\$ 15,267
2377	S Fremont Ave	\$ 54,037	\$ 54,037	\$ 54,170	\$ 54,302	\$ 54,435	\$ 54,633	\$ 12,429	\$ 5,410	\$ 3,254	\$ 1,087	\$ 545	\$ 22,726
2551	S Melville Ave	\$ -	\$ -	\$ 61,825	\$ 61,891	\$ 61,891	\$ 61,957	\$ -	\$ 3,091	\$ 3,711	\$ 1,238	\$ 619	\$ 8,660
2552	S Melville Ave	\$ -	\$ -	\$ 62,785	\$ 62,851	\$ 62,851	\$ 62,917	\$ -	\$ 3,139	\$ 3,769	\$ 1,257	\$ 629	\$ 8,794
2582	S Melville Ave	\$ 36,277	\$ 36,277	\$ 36,410	\$ 36,542	\$ 36,675	\$ 36,873	\$ 8,344	\$ 3,634	\$ 2,189	\$ 732	\$ 368	\$ 15,267
2584	S Melville Ave	\$ 54,157	\$ 54,157	\$ 54,290	\$ 54,422	\$ 54,555	\$ 54,753	\$ 12,456	\$ 5,422	\$ 3,261	\$ 1,090	\$ 547	\$ 22,776
2910	S Packwood Ave	\$ -	\$ -	\$ 62,984	\$ 63,050	\$ 63,182	\$ 63,381	\$ -	\$ 3,149	\$ 3,781	\$ 1,262	\$ 633	\$ 8,825
2983	S Rome Ave	\$ 75,385	\$ 75,385	\$ 75,385	\$ 75,451	\$ 75,451	\$ 75,584	\$ 17,339	\$ 7,538	\$ 4,525	\$ 1,509	\$ 755	\$ 31,666
3094	S Westland Ave	\$ -	\$ 61,572	\$ 61,639	\$ 61,639	\$ 61,705	\$ 61,705	\$ 7,081	\$ 6,161	\$ 3,698	\$ 1,233	\$ 617	\$ 18,790
3104	S Westland Ave	\$ -	\$ -	\$ -	\$ 62,839	\$ 62,905	\$ 62,905	\$ -	\$ -	\$ 1,885	\$ 1,257	\$ 629	\$ 3,772
3336	W Azelee St	\$ 20,317	\$ 20,317	\$ 20,450	\$ 20,582	\$ 20,715	\$ 20,913	\$ 4,673	\$ 2,038	\$ 1,231	\$ 413	\$ 208	\$ 8,563
3349	W Azelee St	\$ 40,477	\$ 40,477	\$ 40,610	\$ 40,742	\$ 40,875	\$ 41,073	\$ 9,310	\$ 4,054	\$ 2,441	\$ 816	\$ 410	\$ 17,031
3350	W Azelee St	\$ 39,757	\$ 39,757	\$ 39,890	\$ 40,022	\$ 40,155	\$ 40,353	\$ 9,144	\$ 3,982	\$ 2,397	\$ 802	\$ 403	\$ 16,728
3633	W Carmen St	\$ 79,026	\$ 79,026	\$ 79,092	\$ 79,092	\$ 79,225	\$ 79,225	\$ 18,176	\$ 7,906	\$ 4,746	\$ 1,583	\$ 792	\$ 33,203
3837	W Cass St	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 305,175	\$ -	\$ -	\$ -	\$ -	\$ 1,526	\$ 1,526
3980	W Cleveland St	\$ -	\$ -	\$ 223,427	\$ 220,944	\$ 228,395	\$ 230,879	\$ -	\$ 11,171	\$ 13,331	\$ 4,493	\$ 2,296	\$ 31,292
3981	W Cleveland St	\$ -	\$ -	\$ 222,767	\$ 220,284	\$ 227,735	\$ 230,219	\$ -	\$ 11,138	\$ 13,292	\$ 4,480	\$ 2,290	\$ 31,200
3995	W Cleveland St	\$ -	\$ -	\$ -	\$ -	\$ 231,035	\$ 233,519	\$ -	\$ -	\$ -	\$ 2,310	\$ 2,323	\$ 4,633
4008	W Cleveland St	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 236,819	\$ -	\$ -	\$ -	\$ -	\$ 1,184	\$ 1,184
4031	W Cleveland St	\$ -	\$ -	\$ 446,351	\$ 451,319	\$ 453,802	\$ 456,286	\$ -	\$ 22,318	\$ 26,930	\$ 9,051	\$ 4,550	\$ 62,849
4060	W Cleveland St	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 237,826	\$ -	\$ -	\$ -	\$ -	\$ 1,189	\$ 1,189

Unique ID	Road Name	Mean Total Flooding Cost	5-yr/1-d Total Flooding Cost	10-yr/1-d Total Flooding Cost	25-yr/1-d Total Flooding Cost	50-yr/1-d Total Flooding Cost	100-yr/1-d Total Flooding Cost	0.23 Interval x Avg. Cost for Interval	0.1 Interval x Avg. Cost for Interval	0.06 Interval x Avg. Cost for Interval	0.02 Interval x Avg. Cost for Interval	0.01 Interval x Avg. Cost for Interval	Total Expected Annual Damages
4062	W Cleveland St	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 232,546	\$ -	\$ -	\$ -	\$ -	\$ 1,163	\$ 1,163
4085	W Cleveland St	\$ 228,047	\$ 230,531	\$ 233,015	\$ 235,499	\$ 235,499	\$ 237,982	\$ 52,737	\$ 23,177	\$ 14,055	\$ 4,710	\$ 2,367	\$ 97,047
4100	W Cleveland St	\$ -	\$ -	\$ 227,735	\$ 230,219	\$ 230,219	\$ 232,702	\$ -	\$ 11,387	\$ 13,739	\$ 4,604	\$ 2,315	\$ 32,044
4113	W Cleveland St	\$ -	\$ 227,231	\$ 229,715	\$ 232,199	\$ 232,199	\$ 234,682	\$ 26,132	\$ 22,847	\$ 13,857	\$ 4,644	\$ 2,334	\$ 69,815
4114	W Cleveland St	\$ -	\$ -	\$ 230,375	\$ 232,859	\$ 232,859	\$ 235,342	\$ -	\$ 11,519	\$ 13,897	\$ 4,657	\$ 2,341	\$ 32,414
4139	W Cleveland St	\$ -	\$ -	\$ 228,551	\$ 228,551	\$ 231,035	\$ 231,035	\$ -	\$ 11,428	\$ 13,713	\$ 4,596	\$ 2,310	\$ 32,047
4143	W Cleveland St	\$ -	\$ -	\$ 228,551	\$ 228,551	\$ 231,035	\$ 231,035	\$ -	\$ 11,428	\$ 13,713	\$ 4,596	\$ 2,310	\$ 32,047
4262	W Cypress St	\$ -	\$ -	\$ -	\$ 34,629	\$ 34,629	\$ 34,976	\$ -	\$ -	\$ 1,039	\$ 693	\$ 348	\$ 2,079
4271	W Cypress St	\$ -	\$ -	\$ 28,991	\$ 29,339	\$ 29,339	\$ 29,686	\$ -	\$ 1,450	\$ 1,750	\$ 587	\$ 295	\$ 4,081
4281	W Cypress St	\$ -	\$ -	\$ 62,801	\$ 63,149	\$ 63,149	\$ 63,496	\$ -	\$ 3,140	\$ 3,778	\$ 1,263	\$ 633	\$ 8,815
4283	W Cypress St	\$ -	\$ -	\$ 65,331	\$ 65,679	\$ 65,679	\$ 66,026	\$ -	\$ 3,267	\$ 3,930	\$ 1,314	\$ 659	\$ 9,169
4307	W Cypress St	\$ -	\$ -	\$ 156,641	\$ 156,989	\$ 156,989	\$ 157,336	\$ -	\$ 7,832	\$ 9,409	\$ 3,140	\$ 1,572	\$ 21,952
4325	W Cypress St	\$ -	\$ -	\$ 155,491	\$ 155,839	\$ 155,839	\$ 156,186	\$ -	\$ 7,775	\$ 9,340	\$ 3,117	\$ 1,560	\$ 21,791
4652	W De Leon St	\$ -	\$ -	\$ 155,135	\$ 155,135	\$ 155,135	\$ 162,586	\$ -	\$ 7,757	\$ 9,308	\$ 3,103	\$ 1,589	\$ 21,756
4653	W De Leon St	\$ -	\$ 153,971	\$ 156,455	\$ 156,455	\$ 156,455	\$ 163,906	\$ 17,707	\$ 15,521	\$ 9,387	\$ 3,129	\$ 1,602	\$ 47,346
5501	W Kennedy Blvd	\$ -	\$ -	\$ 241,148	\$ 237,174	\$ 249,096	\$ 253,070	\$ -	\$ 12,057	\$ 14,350	\$ 4,863	\$ 2,511	\$ 33,781
5502	W Kennedy Blvd	\$ -	\$ -	\$ 66,908	\$ 62,934	\$ 74,856	\$ 78,830	\$ -	\$ 3,345	\$ 3,895	\$ 1,378	\$ 768	\$ 9,387
5506	W Kennedy Blvd	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 191,470	\$ -	\$ -	\$ -	\$ -	\$ 957	\$ 957
5528	W Kennedy Blvd	\$ -	\$ -	\$ 189,228	\$ -	\$ -	\$ -	\$ -	\$ 9,461	\$ 5,677	\$ -	\$ -	\$ 15,138
5569	W Kennedy Blvd	\$ -	\$ -	\$ 290,882	\$ 298,830	\$ 302,804	\$ 306,778	\$ -	\$ 14,544	\$ 17,691	\$ 6,016	\$ 3,048	\$ 41,300
5581	W Kennedy Blvd	\$ -	\$ -	\$ 308,482	\$ 316,430	\$ 320,404	\$ 324,378	\$ -	\$ 15,424	\$ 18,747	\$ 6,368	\$ 3,224	\$ 43,764
5591	W Kennedy Blvd	\$ -	\$ 296,588	\$ 300,562	\$ 308,510	\$ 312,484	\$ 316,458	\$ 34,108	\$ 29,857	\$ 18,272	\$ 6,210	\$ 3,145	\$ 91,592
5609	W Kennedy Blvd	\$ -	\$ -	\$ 301,868	\$ 301,868	\$ 309,816	\$ 309,816	\$ -	\$ 15,093	\$ 18,112	\$ 6,117	\$ 3,098	\$ 42,420
5613	W Kennedy Blvd	\$ -	\$ 301,868	\$ 301,868	\$ 301,868	\$ 309,816	\$ 309,816	\$ 34,715	\$ 30,187	\$ 18,112	\$ 6,117	\$ 3,098	\$ 92,229
5672	W Kennedy Blvd	\$ -	\$ -	\$ 300,988	\$ 300,988	\$ 308,936	\$ 308,936	\$ -	\$ 15,049	\$ 18,059	\$ 6,099	\$ 3,089	\$ 42,297
5840	W Lemon St	\$ -	\$ -	\$ 80,586	\$ 80,586	\$ 80,652	\$ 80,785	\$ -	\$ 4,029	\$ 4,835	\$ 1,612	\$ 807	\$ 11,284
5852	W Lemon St	\$ -	\$ -	\$ 80,586	\$ 80,586	\$ 80,652	\$ 80,785	\$ -	\$ 4,029	\$ 4,835	\$ 1,612	\$ 807	\$ 11,284
6431	W North A St	\$ -	\$ -	\$ 80,412	\$ 80,412	\$ 80,545	\$ 80,545	\$ -	\$ 4,021	\$ 4,825	\$ 1,610	\$ 805	\$ 11,260
6559	W North B St	\$ -	\$ -	\$ 80,412	\$ 80,412	\$ 80,545	\$ 80,545	\$ -	\$ 4,021	\$ 4,825	\$ 1,610	\$ 805	\$ 11,260
6769	W Platt St	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 231,695	\$ -	\$ -	\$ -	\$ -	\$ 1,158	\$ 1,158
6870	W Platt St	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 256,688	\$ -	\$ -	\$ -	\$ -	\$ 1,283	\$ 1,283
6875	W Platt St	\$ -	\$ -	\$ -	\$ 233,050	\$ 238,017	\$ 245,468	\$ -	\$ -	\$ 6,991	\$ 4,711	\$ 2,417	\$ 14,120
6885	W Platt St	\$ -	\$ -	\$ -	\$ 232,859	\$ 232,859	\$ 235,342	\$ -	\$ -	\$ 6,986	\$ 4,657	\$ 2,341	\$ 13,984
7042	W State St	\$ -	\$ -	\$ 80,826	\$ 80,826	\$ 80,892	\$ 81,025	\$ -	\$ 4,041	\$ 4,850	\$ 1,617	\$ 810	\$ 11,318
7209	N Newport Ave	\$ -	\$ -	\$ -	\$ 48,571	\$ 48,571	\$ 48,637	\$ -	\$ -	\$ 1,457	\$ 971	\$ 486	\$ 2,915
7210	N Willow Ave	\$ -	\$ -	\$ 63,739	\$ 64,666	\$ 64,666	\$ 65,594	\$ -	\$ 3,187	\$ 3,852	\$ 1,293	\$ 651	\$ 8,984
7211	N Willow Ave	\$ -	\$ -	\$ 66,039	\$ 66,966	\$ 66,966	\$ 67,894	\$ -	\$ 3,302	\$ 3,990	\$ 1,339	\$ 674	\$ 9,306

Total Sum of Expected Annual Damages \$ 1,475,752

Present Value	
$P = A \left[\frac{(1+i)^n - 1}{i(1+i)^n} \right]$	n (years) 50
	i (yearly interest rate) 0.07
	A \$ 1,475,752
	$(1+i)^n$ 29.46
Present Value Road Flooding Cost \$ 20,366,472	