



April 27, 2021

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*Director
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CONTRACT 1724

2020 FLAP GATE REPLACEMENT

AT VARIOUS LOCATIONS

ADDENDUM NO. 1

All bidders bidding Contract No. 1724 shall read and take note of this Addendum No. 1. The Contract Documents for **Contract No. 1724 – 2020 Flap Gate Replacement at Various Locations** are hereby revised and/or clarified as stated below.

Acknowledgement of Contract No. 1724; Addendum No. 1

The Acknowledgement attached to Addendum No. 1 is to be signed and returned immediately via fax or email to Keegan Boyd at 412-734-8716 or keegan.boyd@alcosan.org and included with Bidder's Proposal.

Jan M. Oliver
Director – Regional Conveyance

**ACKNOWLEDGEMENT OF
CONTRACT 1724 – 2020 FLAP GATE REPLACEMENT
AT VARIOUS LOCATIONS**

ADDENDUM NO. 1

FIRM NAME: _____

SIGNATURE: _____

TITLE: _____

DATE: _____

INDEX OF ATTACHMENTS

ATTACHMENT A: PRE-BID MEETING AGENDA (11 pages)

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ATTACHMENT A: PRE-BID MEETING AGENDA



**CONTRACT NO. 1724 2020 FLAP GATE REPLACEMENT
AT VARIOUS LOCATIONS**

**PREBID MEETING AGENDA
April 8, 2021 @ 10:00AM
Microsoft Teams Video Conference**

INTRODUCTIONS AND KICKOFF

Joe Sparbanie – ALCOSAN Project Engineer (PM)
Mike Lichte – ALCOSAN Manager of Planning
John Garofalo – ALCOSAN Interceptor Manager
Ray Meyer – ALCOSAN MBE DBE Coordinator
Charles Jordan – ms consultants Design Project Manager
Bob Bressler – ms consultants Design Structural Engineer

MEETING INTRODUCTIONS

This Pre-Bid Meeting is being recorded for compiling minutes, but is not planned for distribution. The information provided in this meeting is intended to introduce the project details to prospective bidders. Questions and requests for clarifications must be submitted in writing prior to the deadline for questions to be officially answered in an issued addendum.

All attendees of this meeting are asked to submit their name, company, e-mail address and phone number through the Teams Chat feature. This information will be used to create the list of attendees. If anyone in attendance does not have the ability to enter their contact information, they can send their contact information via e-mail to josh.sparbanie@alcosan.org.

Review all bid documents thoroughly before submitting a bid.

MBE/WBE REQUIREMENTS

Article 1 – Pages 1-18 to 1-21 and Article 2 Section 2.28. MBE/WBE requirements in the Contract urge bidders to participate in meeting the 10-25% goal. ALCOSAN accepts DBE certification from the Port Authority, Allegheny County Department of General Services and PennDOT. Any other certification will be reviewed on a case by case basis. Lack of submittal of MBE/WBE documentation is cause for rejection of the bid.

ALCOSAN requires the submittal of a monthly MBE/WBE Utilization Report which will accompany the pay estimates.

For any questions on MBE/WBE requirements, contact Ray Meyer at raymond.meyer@alcosan.org.

CONTRACT SUMMARY

Contract is for the replacement of eight flap gates in the Regional Conveyance System.

The work shall include but not be limited to the following:

- a. Obtain necessary permits from applicable regulatory agencies and prepare plans for maintenance and protection of pedestrian traffic at locations adjacent to public trails/walkways.
- b. Mobilize to the site, facilitate access to the gates.
- c. Construct cofferdams, install stop logs, conduct dewatering as necessary for progression of the work.
- d. Construct or rehabilitate endwalls, if specified.
- e. Conduct size, condition assessment, concrete assessment, and verification measurements to prepare engineering analysis and shop drawings.
- f. Following preliminary measurement and verification, and in conjunction with the Contractor's engineer and fabricator/manufacturer, prepare shop drawings for submittal to the OWNER.
- g. Fabricate or Procure Gates and Restoration Items.
- h. Following delivery of approved gates, remobilize to the site, set up bypass pumping and construct dewatering measures as necessary.
- i. Remove and properly dispose of all gate debris associated with the demolition and construction. Remove and properly dispose of all designated cast iron flap valves, bolts and frames, as necessary.
- j. Clean and remove all debris from Chamber.
- k. If required, furnish and install fabricated or cast iron flap gates with a one inch grout pad.
- l. If only installing a gate cover, then replace all mounting hardware with the exception of pivot lugs. This shall include all links, all hinge pins, and hinge block pins.
- m. Maintain constant sewage flow without any bypassing

Contract Estimate - \$2,924,350

Contract period – 365 calendar days.

CONSTRUCTION INSPECTION

ms consultants is the CM and will have a resident inspector assigned to review and monitor the work. No work is to take place without an inspector present, unless approved in advance.

LEGAL NOTICE

Public Bid Opening Thursday, May 6, 2021 at 2:00 pm. If the contractor is using a delivery service such as Fed Ex or UPS, they may wish to confirm delivery was made prior to this time.

Contract Documents may be examined and obtained at the Engineering office of the Authority. A non-refundable fee of One hundred dollars (\$100) (no cash or credit cards will be accepted) will be charged for each set of Contract Documents received. Bid Security shall be furnished by providing with the Bid a Certified Check or Bid Bond in the amount of 10% of the Bid Price. Contract documents must be purchased directly from ALCOSAN to qualify as an eligible bidder.

Any questions regarding the Technical aspects of the Project should be directed to Joseph Sparbanie P.E., ALCOSAN, via email to joseph.sparbanie@alcosan.org and Charles Jordan P.E. cjordan@msconsultants.com.

Any questions regarding the Purchase of Contract Documents should be directed to Kathleen P. Uniatowski, ALCOSAN, via email to contract.clerks@alcosan.org.

Deadline for questions is 2:00 PM on April 26, 2021.

BIDDING DOCUMENTS (ARTICLE 1)

Submission of Bid: All Article 1 documents must be completed and submitted with the bid.

Lowest responsive Bidder will be based on the sum of all Bid Items 1 through 14.

Only the Article 1 Bid Forms and supporting documents need to be submitted in the bid envelope, not the entire specifications book

The intent is to award this contract at the May 20, 2021 Board Meeting and issue a July 2021 Notice to Proceed.

INFORMATION FOR BIDDERS (ARTICLE 2)

Bidders are urged to review Article 2 in preparing their bids.

If any alleged errors are noted in the Contract Documents, Bidder should immediately notify Joe Sparbanie and, if confirmed, Addenda will be sent to all prospective Bidders known to have received the Contract Documents.

2.3 Location – ALCOSAN Regional Conveyance System

2.4 Description of Bid Items:

ITEM NO. 1 – MOBILIZATION/DEMOBILIZATION, PERMITS, BONDS AND INSURANCE

Work under this item consists of mobilization, demobilization, permits, bonds, and insurance required for all sites in the entire project.

Payment will be LUMP SUM and pro-rated according to percentage of contract completed. No additional payment will be made for mobilizations/demobilizations in excess of the pre-verification and installation phases. (Not to exceed 5% of the total bid proposal)

ITEM NO. 2 – DEWATERING AS REQUIRED AND VERIFICATION MEASUREMENTS AT A-31, A-41, A-60, A-68, M-03, M-45, M-52, AND O-34 PRIOR TO GATE ORDERING

Work under this item shall include the furnishing of all labor, equipment and materials to conduct dewatering and pre-construction measurement verification at Structures A-31, A-41, A-60, A-68, M-03, M-45, M-52, and O-34. This work shall be complete prior to gate ordering. The Contractor is responsible for compliance with all provisions of the GP-11 permit for A-31 and A-41. Any additional permits required to conduct operations at any of the structures such as E&S, City of Pittsburgh and other Municipalities, ACOE, DEP are included in this item.

The CONTRACTOR is required to coordinate with Regional Conveyance, City of Pittsburgh and other Municipalities, ACOE and the private property owners to acquire access and coordinate work activities.

Payment of this item shall be LUMP SUM, and shall be based on the cumulative percentage of work completed.

ITEM NO. 3 – STRUCTURE A-31 60” HEAVY DUTY FLAP GATE VALVE INSTALLATION, NEW ENDWALL CONSTRUCTION AND RESTORATION COMPLETE

Work under this item shall include the furnishing of all labor, equipment and materials to conduct dewatering for pre-construction, construction and post construction activities, pre-construction and post construction measurement verification, construction of new endwall, testing of the concrete, structure modifications as depicted on the contract drawing at Structure A-31. ALCOSAN has obtained a GP-11 permit. The Contractor is responsible for compliance with all provisions of the GP-11 permit. Any additional permits required to conduct operations such as E&S, City of Pittsburgh, ACOE and DEP permits are included in this item.

Installation of the endwall and self-contained flap gate shall include demolition, hauling and disposal of the existing flap gate, removal and disposal of debris from 60" pipe from endwall to existing structure, test boring to bedrock, construction of new endwall, including caissons and piles, 60" DIP wall pipe, type R-7 grouted rip rap, installation of a new heavy duty flap gate and frame, and site restoration as shown on the contract drawings. The contractor is to develop and submit a demolition and construction plan for approval before commencing work at this site.

The CONTRACTOR is required to coordinate with Regional Conveyance, City of Pittsburgh, ACOE and the private property owners to acquire access and coordinate work activities.

Payment of this item shall be LUMP SUM, and shall be based on the cumulative percentage of work completed.

ITEM NO. 4 – STRUCTURE A-41 60" HEAVY DUTY FLAP GATE VALVE INSTALLATION, ENDWALL REHABILITATION AND RESTORATION COMPLETE

Work under this item shall include the furnishing of all labor, equipment and materials to conduct dewatering for construction and post construction activities, post construction measurement verification, testing of the concrete and structure rehabilitation as depicted on the contract drawing at Structure A-41. ALCOSAN has obtained a GP-11 permit. The Contractor is responsible for compliance with all provisions of the GP-11 permit. Any additional permits required to conduct operations such as E&S, City of Pittsburgh, ACOE and DEP permits are included in this item.

Installation of self-contained flap gate shall include demolition, hauling and disposal of the existing flap gate and steel plate, removal and disposal and debris from 60" pipe from endwall to existing structure, installation of a steel plate, new heavy duty flap gate and frame, endwall restoration and site restoration as shown on the contract drawings. The contractor is to develop and submit a demolition and construction plan for approval before commencing work at this site.

The CONTRACTOR is required to coordinate with Regional Conveyance, City of Pittsburgh, ACOE and the private property owners affected by the work activities.

Payment of this item shall be LUMP SUM, and shall be based on the cumulative percentage of work completed.

ITEM NO. 5 – STRUCTURE A-60 96" X 96" AND 60" X 36' FLAP GATE VALVE INSTALLATION, STRUCTURE MODIFICATIONS AND RESTORATION COMPLETE

Work under this item shall include the furnishing of all labor, equipment and materials to conduct dewatering for construction and post construction activities, post construction measurement verification testing of the concrete and structure modifications as depicted on the contract drawing at Structure A-60. Any permits required to conduct operations such as E&S, ACOE and DEP permits are included in this item.

Installation of the flap gates shall include demolition, hauling and disposal of the existing flap gates and appurtenances, removal of all debris from the chamber and five feet upstream and downstream, construction of concrete buildouts and installation of a new flap gates and site restoration as shown on the contract drawings. The contractor is to

develop and submit a demolition and construction plan for approval before commencing work at this site.

The Contractor is responsible for developing a restoration plan for any areas disturbed by his activities. Replacement of asphalt, concrete sub-base, stone sub-base, etc., disturbed by the contractor and as stipulated by local ordinances is included.

The CONTRACTOR is required to coordinate with Regional Conveyance, City of Pittsburgh, Friends of the Riverfront and private property owners affected by the work activities.

Payment of this item shall be LUMP SUM, and shall be based on the cumulative percentage of work completed.

**ITEM NO. 6 – STRUCTURE A-68 36” HEAVY DUTY FLAP GATE VALVE
INSTALLATION, STRUCTURE MODIFICATIONS AND RESTORATION
COMPLETE**

Work under this item shall include the furnishing of all labor, equipment and materials to conduct dewatering for construction and post construction activities, post construction measurement verification, testing of the concrete and structure modifications as depicted on the contract drawing at Structure O-68. Any permits required to conduct operations such as E&S, Borough of Etna, ACOE and DEP permits are included in this item.

Installation of the self-contained flap gate shall include demolition, hauling and disposal of the existing flap gate and appurtenances, existing in-line check valve and associated appurtenances, demolition of removal of the roof slab, removal of all debris from the chamber and five feet upstream and downstream, installation of a new heavy duty flap gate as shown on the drawings. Contractor shall assume that a ductile iron wall pipe shall be installed and that the gate shall be mounted to a non-tapped ANSI flange.

The Contractor is responsible for developing a structure modification and restoration plan. Restoration shall include installation of a roof slab with single door access hatch and other items as shown on the contract drawings.

The Contractor is responsible for developing a restoration plan for any areas disturbed by his activities. Replacement of asphalt, concrete sub-base, stone sub-base, etc., disturbed by the contractor and as stipulated by local ordinances is included.

The CONTRACTOR is required to coordinate with Regional Conveyance, Borough of Etna and the private property owners affected by the work activities.

Payment of this item shall be LUMP SUM, and shall be based on the cumulative percentage of work completed.

**ITEM NO. 7 – STRUCTURE M-03 72” X 60” FLAP GATE VALVE
INSTALLATION, STRUCTURE MODIFICATIONS AND RESTORATION
COMPLETE**

Work under this item shall include the furnishing of all labor, equipment and materials to conduct dewatering for construction and post construction activities, post construction measurement verification, testing of the concrete and structure modifications as depicted on the contract drawing at Structure M-03. Any permits required to conduct operations

such as E&S, City of Pittsburgh, Pittsburgh Parking Authority, ACOE and DEP permits are included in this item.

Installation of the flap gate cover shall include demolition, hauling and disposal of the existing flap gate and appurtenances, demolition of removal of the roof slab, removal of all debris from the chamber and five feet upstream and downstream, installation of a new fabricated flap gate cover as shown on the drawings.

The Contractor is responsible for developing a structure modification and restoration plan. Restoration shall include installation of a roof slab with single door access hatch, new hinged casting and all other items as shown on the contract drawings.

The Contractor is responsible for developing a restoration plan for any areas disturbed by his activities. Flagstone shall be removed by hand during excavation and stockpiled for reinstallation. Replacement of asphalt, sidewalk, concrete sub-base, stone sub-base, etc., disturbed by the contractor and as stipulated by local ordinances is included.

The CONTRACTOR is required to coordinate with Regional Conveyance, City of Pittsburgh, the Pittsburgh Parking Authority and private property owners affected by the work activities.

Payment of this item shall be LUMP SUM, and shall be based on the cumulative percentage of work completed.

**ITEM NO. 8 - STRUCTURE M-45 96"x96" FLAP GATE VALVE
INSTALLATION, STRUCTURE MODIFICATIONS AND RESTORATION
COMPLETE**

Work under this item shall include the furnishing of all labor, equipment and materials to conduct dewatering for, construction and post construction activities, post construction measurement verification, testing of the concrete and structure modifications as depicted on the contract drawing at Structure M-45. Any permits required to conduct operations such as E&S, ACOE and DEP permits are included in this item.

Installation of the self-contained flap gates shall include demolition of concrete apron, removal of debris from five feet upstream and downstream and installation of a new self-contained flap gate and site restoration as shown on the contract drawings. The contractor is to develop and submit a demolition and construction plan for approval before commencing work at this site.

The Contractor is responsible for developing a restoration plan for any areas disturbed by his activities. Replacement of concrete apron, stone sub-base, etc., disturbed by the contractor and as stipulated by local ordinances is included.

The CONTRACTOR is required to coordinate with Regional Conveyance, Homestead Borough and private property owners affected by the work activities.

Payment of this item shall be LUMP SUM, and shall be based on the cumulative percentage of work completed.

**ITEM NO. 9 – STRUCTURE M-52 24” INSERTION "DUCKBILL"
ELASTOMERIC CHECK VALVE AND 5’ DIAMETER MANHOLE
INSTALLATION AND RESTORATION COMPLETE**

Work under this item shall include the furnishing of all labor, equipment and materials to install a 24” insertion “duckbill elastomeric check valve and a 5’ diameter manhole and Structure M-52. Any permits required to conduct operations such as E&S, ACOE, and DEP permits are included in this item.

Installation of the insertion checkmate ultraflex check valve or approved equal shall include; removal of all debris from the chamber and five feet upstream and downstream, dewatering for construction and post construction activities, and post construction measurement verification. Installation of the new manhole shall include all exploratory excavation, excavation, backfill, removal of crown of 24” pipe within the new manhole, new manhole frame and casting as shown on the contract drawings. The contractor is to develop and submit a demolition and construction plan for approval before commencing work at this site.

The CONTRACTOR is required to coordinate with Regional Conveyance, Borough of Braddock and the private property owners affected by the work activities.

Payment of this item shall be LUMP SUM, and shall be based on the cumulative percentage of work completed.

ITEM 10 RAILROAD PERMITS (AS REQUIRED)

Work under this item shall include the furnishing of all labor, equipment and materials to apply and obtain any required railroad permits for the work at Structure M-52. Payment of this item shall be LUMP SUM, and shall be based on the cumulative percentage of work completed.

ITEM C-11 RAILROAD FLAGPERSON

This item shall cover all expenses involved in having a railroad flagperson for work at Structure M-52, not specified by other bid items, and as directed by the Owner. Measurement for payment shall be based on the actual number of hours spent performing the indicated work.

Payment shall be PER HOUR for a railroad flagperson for work which is not defined by any other contract unit prices.

**ITEM NO. 12 – STRUCTURE O-34 48”X60” FLAP GATE VALVE
INSTALLATION, STRUCTURE MODIFICATIONS AND RESTORATION
COMPLETE**

Work under this item shall include the furnishing of all labor, equipment and materials to conduct dewatering for construction and post construction activities, post construction measurement verification, testing of the concrete and structure modifications as depicted on the contract drawing at Structure O-34. Any permits required to conduct operations such as E&S, City of Pittsburgh, ACOE and DEP permits are included in this item.

Installation of the flap gate cover shall include demolition, hauling and disposal of the existing flap gate and appurtenances, demolition of removal of the roof slab, removal of all debris from the chamber and five feet upstream and downstream, installation of a new fabricated flap gate cover as shown on the drawings.

The Contractor is responsible for developing a structure modification and restoration plan. Restoration shall include installation of a roof slab with single door access hatch, new hinged castings and all other items as shown on the contract drawings. The Contractor is responsible for developing a restoration plan for any areas disturbed by his activities. Replacement of asphalt, sidewalk, concrete sub-base, stone sub-base, etc., disturbed by the contractor and as stipulated by local ordinances is included.

The CONTRACTOR is required to coordinate with Regional Conveyance, City of Pittsburgh, Friends of the Riverfront, and private property owners affected by the work activities.

Payment of this item shall be LUMP SUM, and shall be based on the cumulative percentage of work completed.

ITEM C-13 R-5 RIP RAP GROUTED IN PLACE

Work under this item shall include furnishing all labor, equipment, and material associated with excavation and the stone rip-rap, grouted in-place installation as directed in the field.

Measurement shall be based on the square yards of rip-rap installed complete in place, at a minimum thickness of eighteen-inches (18”).

Payment shall be based on the unit price bid per SQUARE YARD (SY).

ITEM C-14 – MISCELLANEOUS WORK FOR A FULL TIME CREW

This item shall cover all expenses involved in having a crew of workers and equipment at a site performing miscellaneous work, not specified by other bid items, and as directed by the Owner.

If this item is used for time spent waiting by a crew as a result of actions by and directed by the Owner, the item shall cover all expenses involved in having a crew of workers and equipment at a site prepared to conduct work but unable to work due to circumstances outside of their control. Delays which are usual and a customary part of flap gate valve installation WILL NOT BE PAID FOR UNDER THIS ITEM and are considered incidental to the work of installing the flap gate valve. Measurement for payment shall be based on the actual number of hours spent performing the indicated work.

Payment shall be PER HOUR for a full crew(s); labor and equipment cost for work and/or time spent on-site which is not defined by any other contract unit prices. A full crew is defined to consist of: foreman, front-end loader with operator, dump truck with operator, excavator with operator, two laborers, plus support work truck and hand tools

2.5 Bypass Pumping

A bypass pumping plan will be required for all gate installations and be included as a submittal.

2.7 Sealed Bids to be submitted to ALCOSAN Engineering Department on or before Bid Opening time and date of 2:00 pm, May 6, 2021, late bids will be treated as "nonresponsive" and returned to Bidder unopened. If Bid is submitted with conditions or exceptions, or not in conformance with the terms and conditions of the Contract Documents, it may be rejected.

2.8 Supplementary Information Package: Experience, Equipment Subcontractors.

Letter of Acknowledgement of Responsibility for errors, omissions, and delays attributable to subcontractors.

2.10 ALCOSAN reserves the right to reject any and all bids.

2.16 Prospective bidders are advised to make investigations as necessary to satisfy themselves of the existing conditions prior to submitting a bid.

2.19 Bidders shall acknowledge receipt of all addenda.

2.22 Bids shall be accompanied by a Certified Check or Bid Bond in the amount of 10% of the Total Lump Sum Price

GENERAL CONTRACT CONDITIONS (ARTICLE 3)

Bidders should review Article 3 thoroughly

3.73 – Health, Safety and Environmental Laws – ALCOSAN approval of safety manual required for work start. This must include a specific Covid-19 as well.

3.75 – Working Hours: Any work performed outside normal working hours as defined in Article 3.75 will require prior approval and 48-hours' notice.

3.76 – Minimum Wage Rates – See Article 7 for PA Wage Rate Determination

3.78 – PA Steel Products Procurement Act

Exhibit A – Insurance Requirements, Certificates required before any work begins.

CONTRACT AGREEMENT (ARTICLE 4)

Bidders should review Article 4 thoroughly

Substantial Completion of Flap Gate Improvements Contract: 365 Calendar days from NTP.

Liquidated Damages:

- Substantial Completion of Contract No. 1724 - \$500/day

BONDS, CERTIFICATES AND STATEMENTS (ARTICLE 5)

Bidders should review Article 5 thoroughly

Performance Bond, Labor and Material Bond, Contractors Certificate of Satisfaction, Maintenance Bond

SPECIFICATIONS (ARTICLE 6)

The Bidders should review Article 6 thoroughly. The Appendices include permits, gate measurement template and contract drawings. Record and Shop Drawing from prior contracts will also be made available to the apparent low bidder. The shop drawing submittals, prepared by the contractor, requires an engineer's stamp of approval (PA engineer).

QUESTIONS

All technical questions regarding these Contract Documents shall be emailed to cjordan@msconsultants.com and joseph.sparbanie@alcosan.org no later than 2:00 PM on April 26, 2021.

ATTACHMENT B: PRE-BID MEETING MINUTES



**CONTRACT NO. 1724 2020 FLAP GATE REPLACEMENT
AT VARIOUS LOCATIONS**

**PREBID MEETING MINUTES
April 8, 2021 @ 10:00AM
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CONTRACT SUMMARY

Contract is for the replacement of eight flap gates in the Regional Conveyance System.

The work shall include but not be limited to the following:

- a. Obtain necessary permits from applicable regulatory agencies and prepare plans for maintenance and protection of pedestrian traffic at locations adjacent to public trails/walkways.
- b. Mobilize to the site, facilitate access to the gates.
- c. Construct cofferdams, install stop logs, conduct dewatering as necessary for progression of the work.
- d. Construct or rehabilitate endwalls, if specified.
- e. Conduct size, condition assessment, concrete assessment, and verification measurements to prepare engineering analysis and shop drawings.
- f. Following preliminary measurement and verification, and in conjunction with the Contractor's engineer and fabricator/manufacturer, prepare shop drawings for submittal to the OWNER.
- g. Fabricate or Procure Gates and Restoration Items.
- h. Following delivery of approved gates, remobilize to the site, set up bypass pumping and construct dewatering measures as necessary.
- i. Remove and properly dispose of all gate debris associated with the demolition and construction. Remove and properly dispose of all designated cast iron flap valves, bolts and frames, as necessary.
- j. Clean and remove all debris from Chamber.
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The CONTRACTOR is required to coordinate with Regional Conveyance, City of Pittsburgh and other Municipalities, ACOE and the private property owners to acquire access and coordinate work activities.

Payment of this item shall be LUMP SUM, and shall be based on the cumulative percentage of work completed.

ITEM NO. 3 – STRUCTURE A-31 60” HEAVY DUTY FLAP GATE VALVE INSTALLATION, NEW ENDWALL CONSTRUCTION AND RESTORATION COMPLETE

Work under this item shall include the furnishing of all labor, equipment and materials to conduct dewatering for pre-construction, construction and post construction activities, pre-construction and post construction measurement verification, construction of new

endwall, testing of the concrete, structure modifications as depicted on the contract drawing at Structure A-31. ALCOSAN has obtained a GP-11 permit. The Contractor is responsible for compliance with all provisions of the GP-11 permit. Any additional permits required to conduct operations such as E&S, City of Pittsburgh, ACOE and DEP permits are included in this item.

Installation of the endwall and self-contained flap gate shall include demolition, hauling and disposal of the existing flap gate, removal and disposal of debris from 60" pipe from endwall to existing structure, test boring to bedrock, construction of new endwall, including caissons and piles, 60" DIP wall pipe, type R-7 grouted rip rap, installation of a new heavy duty flap gate and frame, and site restoration as shown on the contract drawings. The contractor is to develop and submit a demolition and construction plan for approval before commencing work at this site.

The CONTRACTOR is required to coordinate with Regional Conveyance, City of Pittsburgh, ACOE and the private property owners to acquire access and coordinate work activities.

Payment of this item shall be LUMP SUM, and shall be based on the cumulative percentage of work completed.

**ITEM NO. 4 – STRUCTURE A-41 60" HEAVY DUTY FLAP GATE VALVE
INSTALLATION, ENDWALL REHABILITATION AND RESTORATION
COMPLETE**

Work under this item shall include the furnishing of all labor, equipment and materials to conduct dewatering for construction and post construction activities, post construction measurement verification, testing of the concrete and structure rehabilitation as depicted on the contract drawing at Structure A-41. ALCOSAN has obtained a GP-11 permit. The Contractor is responsible for compliance with all provisions of the GP-11 permit. Any additional permits required to conduct operations such as E&S, City of Pittsburgh, ACOE and DEP permits are included in this item.

Installation of self-contained flap gate shall include demolition, hauling and disposal of the existing flap gate and steel plate, removal and disposal and debris from 60" pipe from endwall to existing structure, installation of a steel plate, new heavy duty flap gate and frame, endwall restoration and site restoration as shown on the contract drawings. The contractor is to develop and submit a demolition and construction plan for approval before commencing work at this site.

The CONTRACTOR is required to coordinate with Regional Conveyance, City of Pittsburgh, ACOE and the private property owners affected by the work activities.

Payment of this item shall be LUMP SUM, and shall be based on the cumulative percentage of work completed.

**ITEM NO. 5 – STRUCTURE A-60 96" X 96" AND 60" X 36' FLAP GATE VALVE
INSTALLATION, STRUCTURE MODIFICATIONS AND RESTORATION
COMPLETE**

Work under this item shall include the furnishing of all labor, equipment and materials to conduct dewatering for construction and post construction activities, post construction measurement verification testing of the concrete and structure modifications as depicted

on the contract drawing at Structure A-60. Any permits required to conduct operations such as E&S, ACOE and DEP permits are included in this item.

Installation of the flap gates shall include demolition, hauling and disposal of the existing flap gates and appurtenances, removal of all debris from the chamber and five feet upstream and downstream, construction of concrete buildouts and installation of a new flap gates and site restoration as shown on the contract drawings. The contractor is to develop and submit a demolition and construction plan for approval before commencing work at this site.

The Contractor is responsible for developing a restoration plan for any areas disturbed by his activities. Replacement of asphalt, concrete sub-base, stone sub-base, etc., disturbed by the contractor and as stipulated by local ordinances is included.

The CONTRACTOR is required to coordinate with Regional Conveyance, City of Pittsburgh, Friends of the Riverfront and private property owners affected by the work activities.

Payment of this item shall be LUMP SUM, and shall be based on the cumulative percentage of work completed.

**ITEM NO. 6 – STRUCTURE A-68 36” HEAVY DUTY FLAP GATE VALVE
INSTALLATION, STRUCTURE MODIFICATIONS AND RESTORATION
COMPLETE**

Work under this item shall include the furnishing of all labor, equipment and materials to conduct dewatering for construction and post construction activities, post construction measurement verification, testing of the concrete and structure modifications as depicted on the contract drawing at Structure O-68. Any permits required to conduct operations such as E&S, Borough of Etna, ACOE and DEP permits are included in this item.

Installation of the self-contained flap gate shall include demolition, hauling and disposal of the existing flap gate and appurtenances, existing in-line check valve and associated appurtenances, demolition of removal of the roof slab, removal of all debris from the chamber and five feet upstream and downstream, installation of a new heavy duty flap gate as shown on the drawings. Contractor shall assume that a ductile iron wall pipe shall be installed and that the gate shall be mounted to a non-tapped ANSI flange.

The Contractor is responsible for developing a structure modification and restoration plan. Restoration shall include installation of a roof slab with single door access hatch and other items as shown on the contract drawings.

The Contractor is responsible for developing a restoration plan for any areas disturbed by his activities. Replacement of asphalt, concrete sub-base, stone sub-base, etc., disturbed by the contractor and as stipulated by local ordinances is included.

The CONTRACTOR is required to coordinate with Regional Conveyance, Borough of Etna and the private property owners affected by the work activities.

Payment of this item shall be LUMP SUM, and shall be based on the cumulative percentage of work completed.

**ITEM NO. 7 – STRUCTURE M-03 72” X 60” FLAP GATE VALVE
INSTALLATION, STRUCTURE MODIFICATIONS AND RESTORATION
COMPLETE**

Work under this item shall include the furnishing of all labor, equipment and materials to conduct dewatering for construction and post construction activities, post construction measurement verification, testing of the concrete and structure modifications as depicted on the contract drawing at Structure M-03. Any permits required to conduct operations such as E&S, City of Pittsburgh, Pittsburgh Parking Authority, ACOE and DEP permits are included in this item.

Installation of the flap gate cover shall include demolition, hauling and disposal of the existing flap gate and appurtenances, demolition of removal of the roof slab, removal of all debris from the chamber and five feet upstream and downstream, installation of a new fabricated flap gate cover as shown on the drawings.

The Contractor is responsible for developing a structure modification and restoration plan. Restoration shall include installation of a roof slab with single door access hatch, new hinged casting and all other items as shown on the contract drawings.

The Contractor is responsible for developing a restoration plan for any areas disturbed by his activities. Flagstone shall be removed by hand during excavation and stockpiled for reinstallation. Replacement of asphalt, sidewalk, concrete sub-base, stone sub-base, etc., disturbed by the contractor and as stipulated by local ordinances is included.

The CONTRACTOR is required to coordinate with Regional Conveyance, City of Pittsburgh, the Pittsburgh Parking Authority and private property owners affected by the work activities.

Payment of this item shall be LUMP SUM, and shall be based on the cumulative percentage of work completed.

**ITEM NO. 8 - STRUCTURE M-45 96”x96” FLAP GATE VALVE
INSTALLATION, STRUCTURE MODIFICATIONS AND RESTORATION
COMPLETE**

Work under this item shall include the furnishing of all labor, equipment and materials to conduct dewatering for, construction and post construction activities, post construction measurement verification, testing of the concrete and structure modifications as depicted on the contract drawing at Structure M-45. Any permits required to conduct operations such as E&S, ACOE and DEP permits are included in this item.

Installation of the self-contained flap gates shall include demolition of concrete apron, removal of debris from five feet upstream and downstream and installation of a new self-contained flap gate and site restoration as shown on the contract drawings. The contractor is to develop and submit a demolition and construction plan for approval before commencing work at this site.

The Contractor is responsible for developing a restoration plan for any areas disturbed by his activities. Replacement of concrete apron, stone sub-base, etc., disturbed by the contractor and as stipulated by local ordinances is included.

The CONTRACTOR is required to coordinate with Regional Conveyance, Homestead Borough and private property owners affected by the work activities.

Payment of this item shall be LUMP SUM, and shall be based on the cumulative percentage of work completed.

**ITEM NO. 9 – STRUCTURE M-52 24” INSERTION "DUCKBILL"
ELASTOMERIC CHECK VALVE AND 5’ DIAMETER MANHOLE
INSTALLATION AND RESTORATION COMPLETE**

Work under this item shall include the furnishing of all labor, equipment and materials to install a 24” insertion “duckbill elastomeric check valve and a 5’ diameter manhole and Structure M-52. Any permits required to conduct operations such as E&S, ACOE, and DEP permits are included in this item.

Installation of the insertion checkmate ultraflex check valve or approved equal shall include; removal of all debris from the chamber and five feet upstream and downstream, dewatering for construction and post construction activities, and post construction measurement verification. Installation of the new manhole shall include all exploratory excavation, excavation, backfill, removal of crown of 24” pipe within the new manhole, new manhole frame and casting as shown on the contract drawings. The contractor is to develop and submit a demolition and construction plan for approval before commencing work at this site.

The CONTRACTOR is required to coordinate with Regional Conveyance, Borough of Braddock and the private property owners affected by the work activities.

Payment of this item shall be LUMP SUM, and shall be based on the cumulative percentage of work completed.

ITEM 10 RAILROAD PERMITS (AS REQUIRED)

Work under this item shall include the furnishing of all labor, equipment and materials to apply and obtain any required railroad permits for the work at Structure M-52. Payment of this item shall be LUMP SUM, and shall be based on the cumulative percentage of work completed.

ITEM C-11 RAILROAD FLAGPERSON

This item shall cover all expenses involved in having a railroad flagperson for work at Structure M-52, not specified by other bid items, and as directed by the Owner. Measurement for payment shall be based on the actual number of hours spent performing the indicated work.

Payment shall be PER HOUR for a railroad flagperson for work which is not defined by any other contract unit prices.

**ITEM NO. 12 – STRUCTURE O-34 48”X60” FLAP GATE VALVE
INSTALLATION, STRUCTURE MODIFICATIONS AND RESTORATION
COMPLETE**

Work under this item shall include the furnishing of all labor, equipment and materials to conduct dewatering for construction and post construction activities, post construction measurement verification, testing of the concrete and structure modifications as depicted on the contract drawing at Structure O-34. Any permits required to conduct operations such as E&S, City of Pittsburgh, ACOE and DEP permits are included in this item.

Installation of the flap gate cover shall include demolition, hauling and disposal of the existing flap gate and appurtenances, demolition of removal of the roof slab, removal of all debris from the chamber and five feet upstream and downstream, installation of a new fabricated flap gate cover as shown on the drawings.

The Contractor is responsible for developing a structure modification and restoration plan. Restoration shall include installation of a roof slab with single door access hatch, new hinged castings and all other items as shown on the contract drawings. The Contractor is responsible for developing a restoration plan for any areas disturbed by his activities. Replacement of asphalt, sidewalk, concrete sub-base, stone sub-base, etc., disturbed by the contractor and as stipulated by local ordinances is included.

The CONTRACTOR is required to coordinate with Regional Conveyance, City of Pittsburgh, Friends of the Riverfront, and private property owners affected by the work activities.

Payment of this item shall be LUMP SUM, and shall be based on the cumulative percentage of work completed.

ITEM C-13 R-5 RIP RAP GROUTED IN PLACE

Work under this item shall include furnishing all labor, equipment, and material associated with excavation and the stone rip-rap, grouted in-place installation as directed in the field.

Measurement shall be based on the square yards of rip-rap installed complete in place, at a minimum thickness of eighteen-inches (18”).

Payment shall be based on the unit price bid per SQUARE YARD (SY).

ITEM C-14 – MISCELLANEOUS WORK FOR A FULL TIME CREW

This item shall cover all expenses involved in having a crew of workers and equipment at a site performing miscellaneous work, not specified by other bid items, and as directed by the Owner.

If this item is used for time spent waiting by a crew as a result of actions by and directed by the Owner, the item shall cover all expenses involved in having a crew of workers and equipment at a site prepared to conduct work but unable to work due to circumstances outside of their control. Delays which are usual and a customary part of flap gate valve installation WILL NOT BE PAID FOR UNDER THIS ITEM and are considered incidental to the work of installing the flap gate valve. Measurement for payment shall be based on the actual number of hours spent performing the indicated work.

Payment shall be PER HOUR for a full crew(s); labor and equipment cost for work and/or time spent on-site which is not defined by any other contract unit prices. A full

crew is defined to consist of: foreman, front-end loader with operator, dump truck with operator, excavator with operator, two laborers, plus support work truck and hand tools

2.5 Bypass Pumping

A bypass pumping plan will be required for all gate installations and be included as a submittal.

2.7 Sealed Bids to be submitted to ALCOSAN Engineering Department on or before Bid Opening time and date of 2:00 pm, May 6, 2021, late bids will be treated as "nonresponsive" and returned to Bidder unopened. If Bid is submitted with conditions or exceptions, or not in conformance with the terms and conditions of the Contract Documents, it may be rejected. ATTENTION; Contract Clerk

2.8 Supplementary Information Package: Experience, Equipment Subcontractors.

Letter of Acknowledgement of Responsibility for errors, omissions, and delays attributable to subcontractors.

2.10 ALCOSAN reserves the right to reject any and all bids.

2.16 Prospective bidders were advised to make investigations as necessary to satisfy themselves of the existing conditions prior to submitting a bid.

2.19 Bidders shall acknowledge receipt of all addenda.

2.22 Bids shall be accompanied by a Certified Check or Bid Bond in the amount of 10% of the Total Lump Sum Price

GENERAL CONTRACT CONDITIONS (ARTICLE 3)

Bidders should review Article 3 thoroughly

3.73 – Health, Safety and Environmental Laws – ALCOSAN approval of safety manual required for work start. This must include a specific Covid-19 as well.

3.75 – Working Hours: Any work performed outside normal working hours as defined in Article 3.75 will require prior approval and 48-hours' notice.

3.76 – Minimum Wage Rates – See Article 7 for PA Wage Rate Determination

3.78 – PA Steel Products Procurement Act

Exhibit A – Insurance Requirements, Certificates required before any work begins.

CONTRACT AGREEMENT (ARTICLE 4)

Bidders should review Article 4 thoroughly

Substantial Completion of Flap Gate Improvements Contract: 365 Calendar days from NTP.

Liquidated Damages:

- Substantial Completion of Contract No. 1724 - \$500/day

BONDS, CERTIFICATES AND STATEMENTS (ARTICLE 5)

Bidders should review Article 5 thoroughly

Performance Bond, Labor and Material Bond, Contractors Certificate of Satisfaction, Maintenance Bond

SPECIFICATIONS (ARTICLE 6)

The Bidders should review Article 6 thoroughly. The Appendices include permits, gate measurement template and contract drawings. Record and Shop Drawing from prior contracts will also be made available to the apparent low bidder. The shop drawing submittals, prepared by the contractor, requires an engineer's stamp of approval (PA engineer).

QUESTIONS

All technical questions regarding these Contract Documents shall be emailed to cjordan@msconsultants.com and joseph.sparbanie@alcosan.org no later than 2:00 PM on April 26, 2021.

Questions during meeting:

1. Question: Is railroad protective liability insurance required?
Answer: Railroad protective insurance and is included as part of Item 1.
2. Question: Which railroad company is by M-52?
Answer: CSX
3. Question: Is dewatering needed for both set ups?
Answer: Dewatering is required at all sites for both pre-verification and install work.
4. Question: Do any sites have barge only access?
Answer: Yes, some sites require only barge access such as M-45 and A-41. Contractor must verify access and determine this for themselves.

ATTACHMENT C: PRE-BID MEETING LIST OF ATTENDEES

ALLEGHENY COUNTY SANITARY AUTHORITY

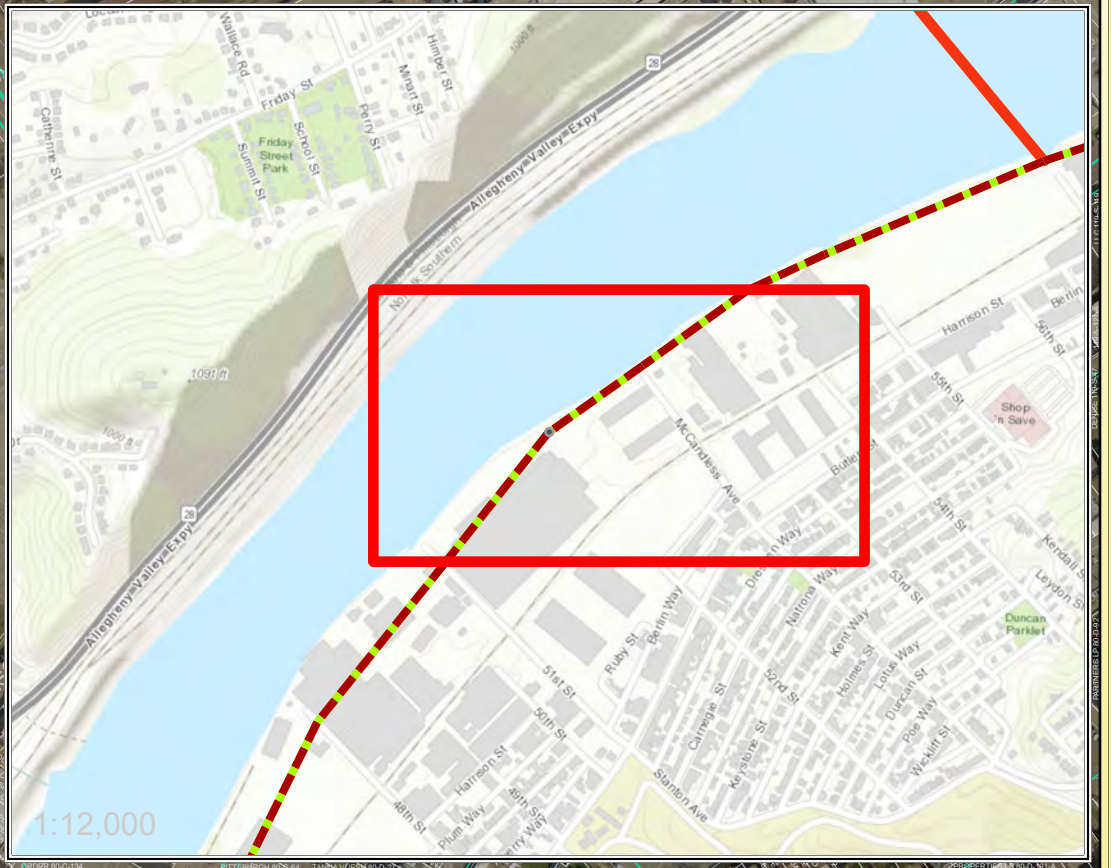
WEB-CONFERENCE PRE-BID MEETING ATTENDANCE

CONTRACT 1724: 2020 FLAP GATE REPLACEMENT AT VARIOUS LOCATIONS

THURSDAY, APRIL 8, 2021 @ 10:00 am

	NAME	AFFILIATION	PHONE	FAX	E-MAIL
1	Mike Lichte	ALCOSAN	412-732-8004		michael.lichte@alcosan.org
2	Joe Sparbanie	ALCOSAN	412-732-8046		joseph.sparbanie@alcosan.org
3	Charles Jordan	ms consultants	412 264-8701		cjordan@msconsultants.com
4	Bob Bressler	ms consultants	412 264-8701		rbressler@msconsultants.com
5	John Leach	Lone Pine Construction, Inc.	724-239-6100	724-239-6107	jleach@lonepineconstruction.com
6	Regan Thompson	FJ Zottola Const.	724-586-2020		rthompson@fjzottola.com
7	Bryan Martucci	HR Gray	412-398-3045		bryan.martucci@anseradvisory.com
8	Justin Burdette	A. Merante Contracting	412-884-4485		estimating@amerantecontracting.com
9	Mike McGreal	Independent Enterprises, Inc.	412-221-3435		bids@iei.com
10					
11					

ATTACHMENT D: SITE LOCATION MAPS



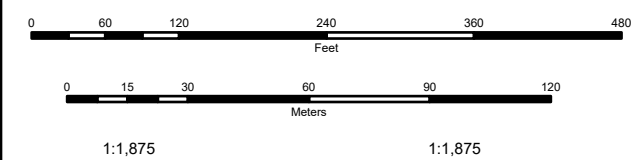
**ALCOSAN Contract 1724
Flap Gate Replacement**

Structure: A-31

Date: 4/22/2021

Drawn By: AK

Page: **1-8**

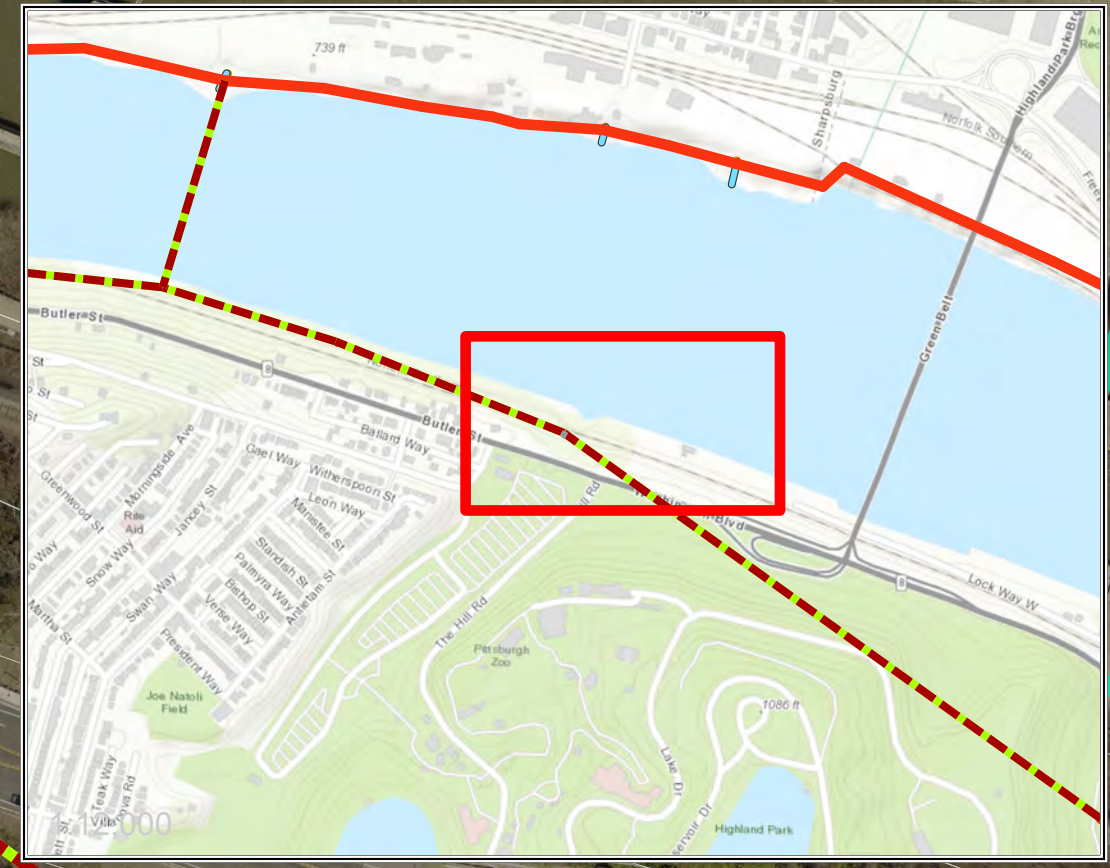
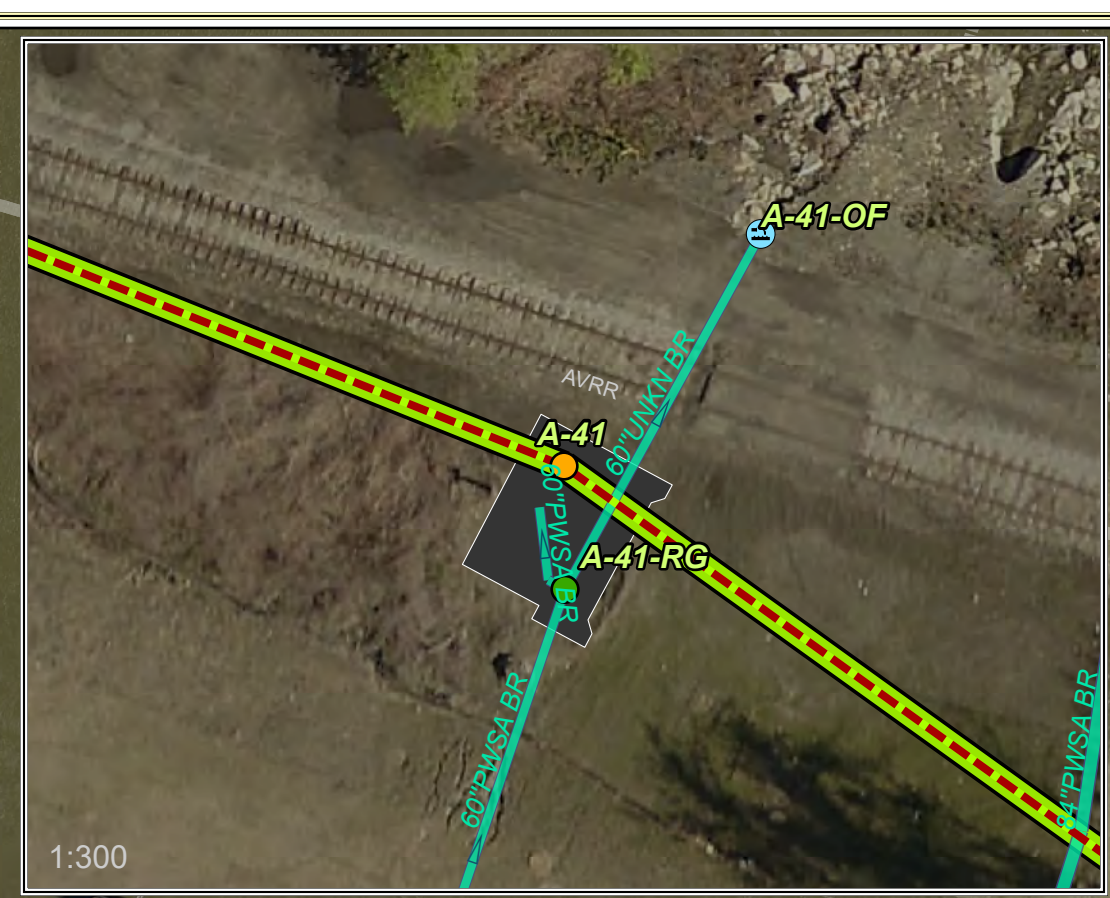
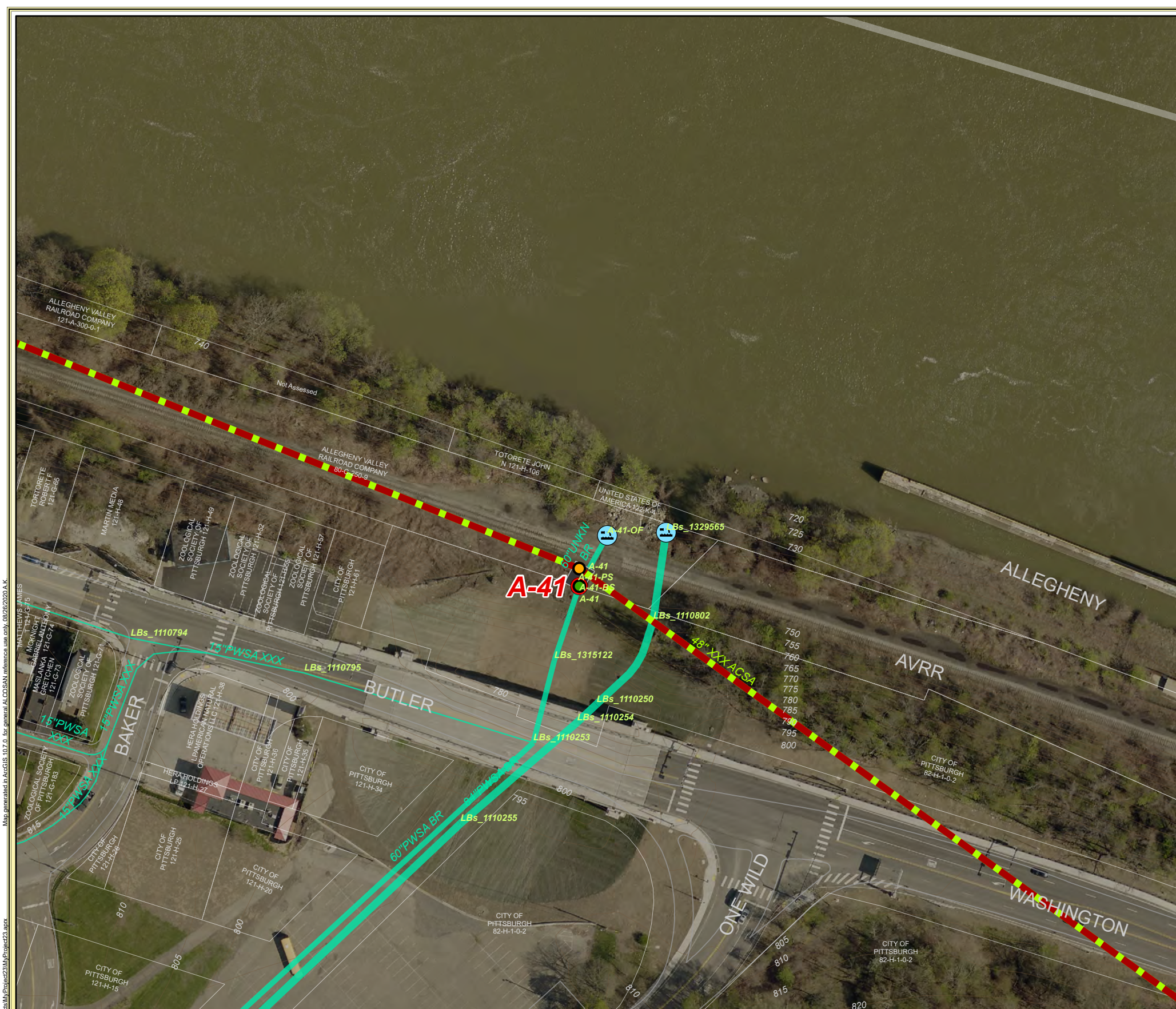



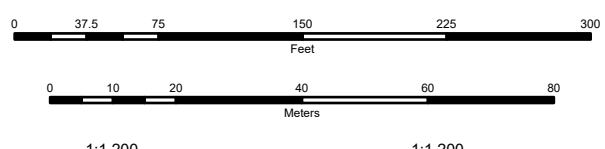












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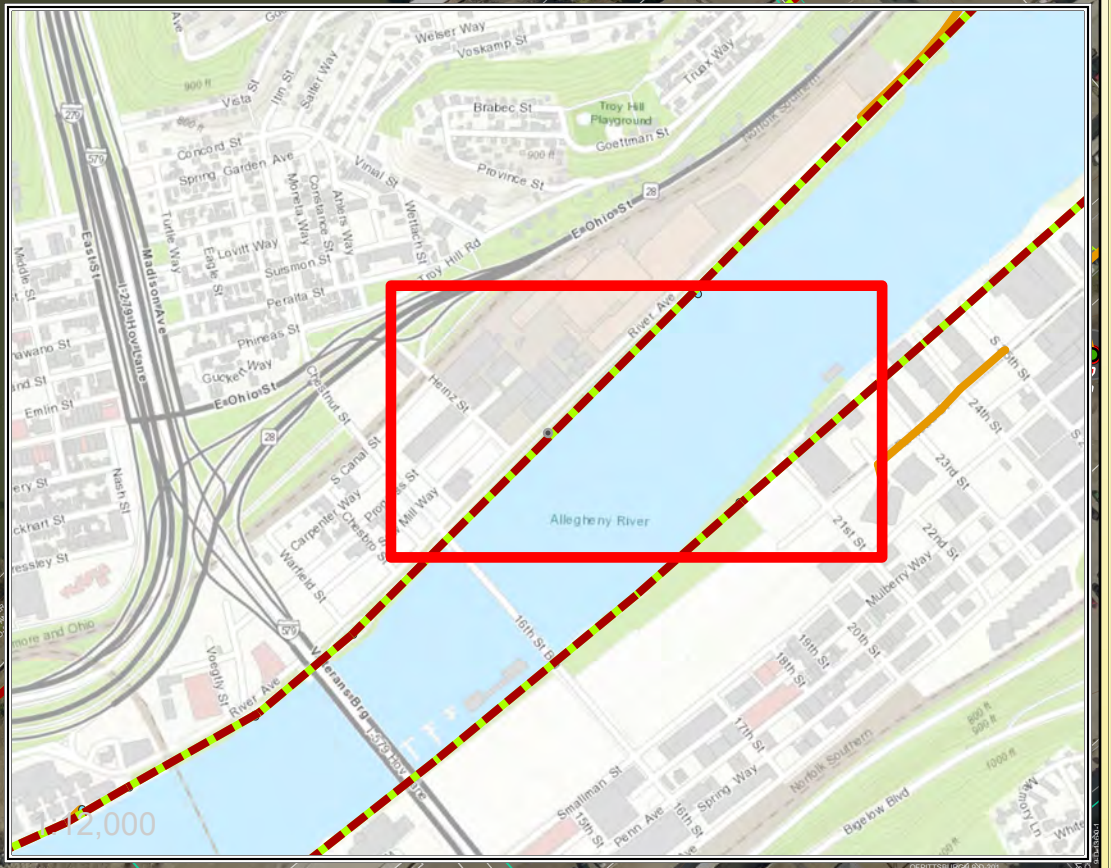
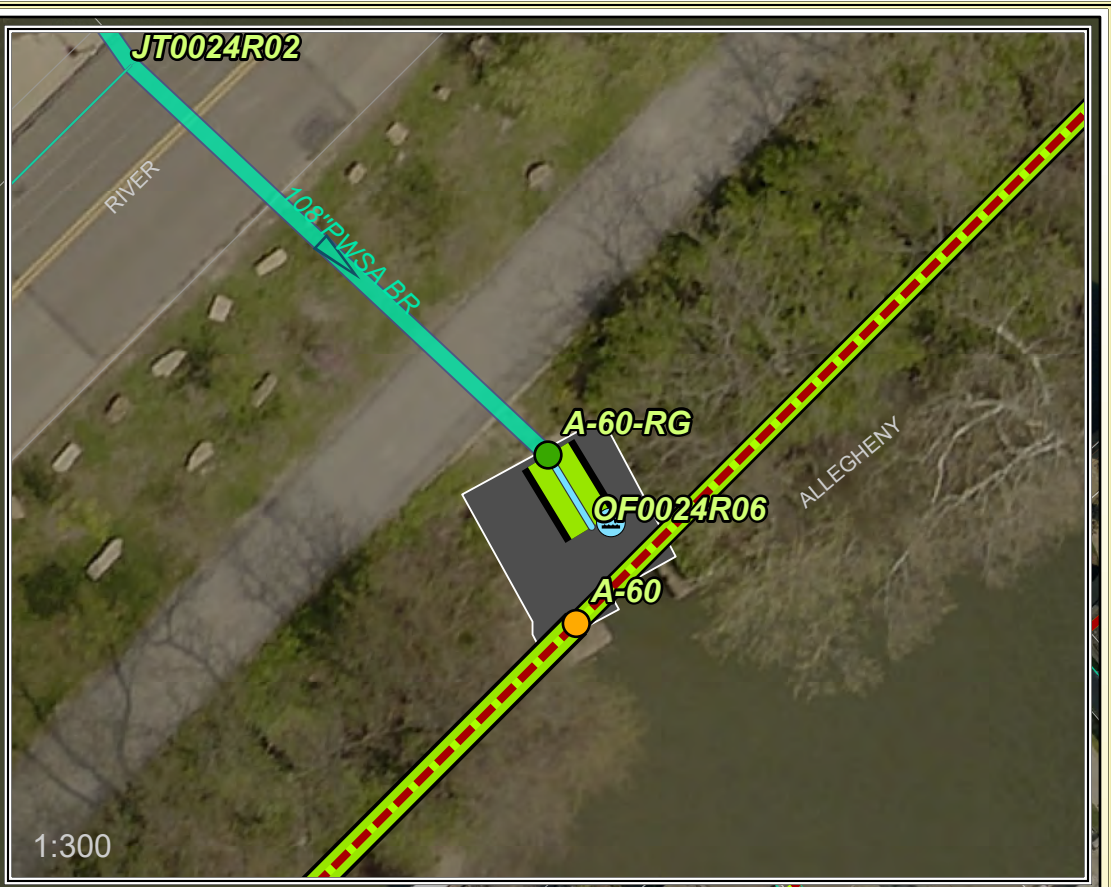
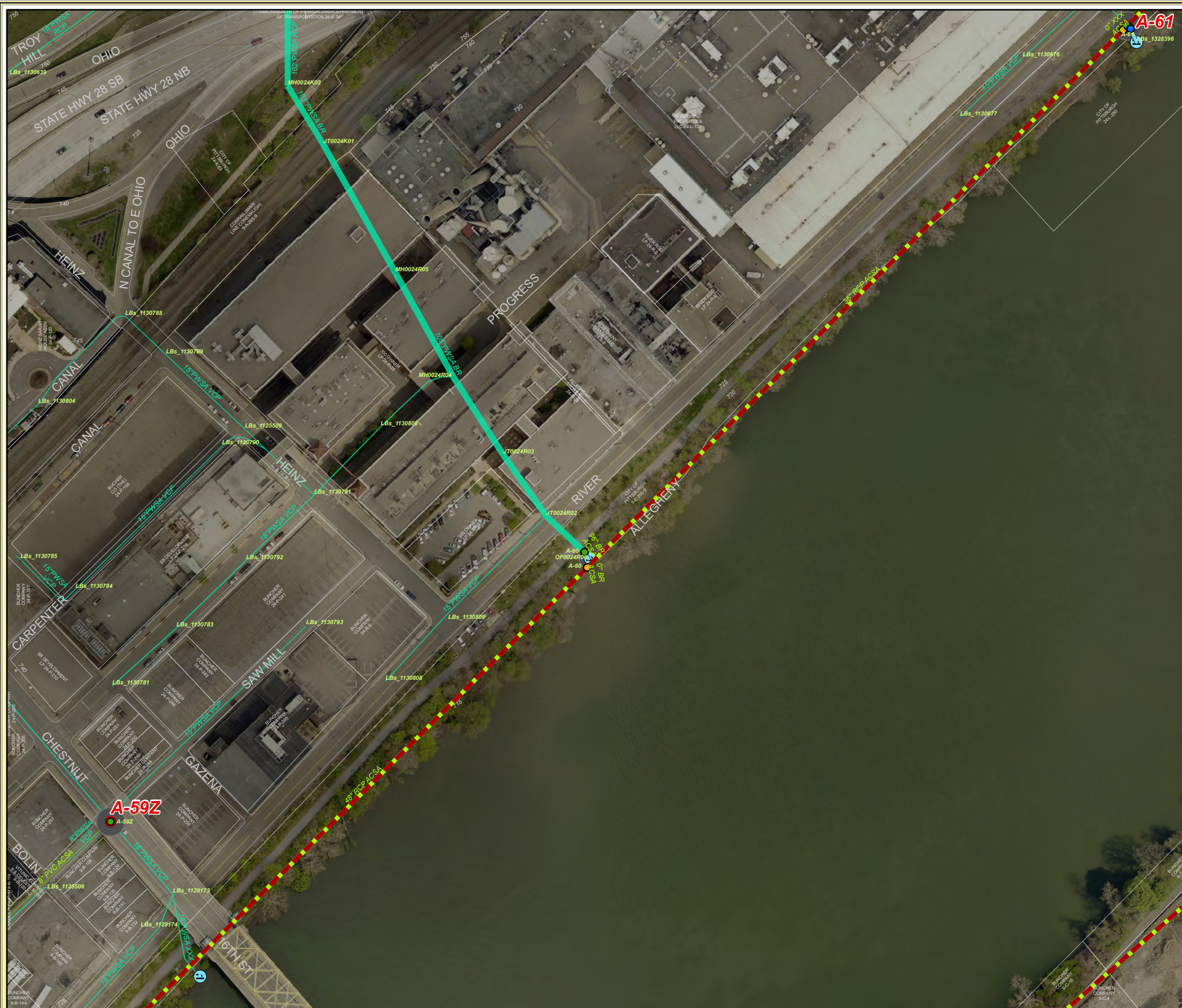


Existing ALCOSAN Sewers		Combined Sewers	
	Connector Pipe		ALCOSAN
	Overflow Pipe		Municipal Sewer
	Shallow-Cut Interceptor		Plant Side Manhole
	Deep-Tunnel Interceptor		Town Side Manhole
	Riverside Manhole		Regulator
	Base Structures		

Map generated in ArcGIS 10.7.0. For general ALCOSAN reference use only. 08/26/2020 AK



	ALCOSAN Contract 1724 Flap Gate Replacement				Existing ALCOSAN Sewers  Connector Pipe  Overflow Pipe  Shallow-Cut Interceptor  Deep-Tunnel Interceptor	Combined Sewers  ALCOSAN  Municipal Sewer  Plant Side Manhole  Town Side Manhole	 Riverside Manhole  Regulator  Regulator Structure Footprint
	Structure: A-41	Date: 4/22/2021 Drawn By: AK Page: 2-8					



Map generated in ArcGIS 10.7.0. For general ALCOSAN reference use only. 08/26/2020 A.K.



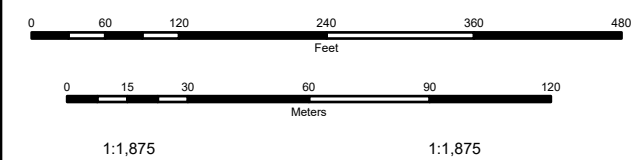
**ALCOSAN Contract 1724
Flap Gate Replacement**

Structure: A-60

Date: 4/22/2021

Drawn By: AK

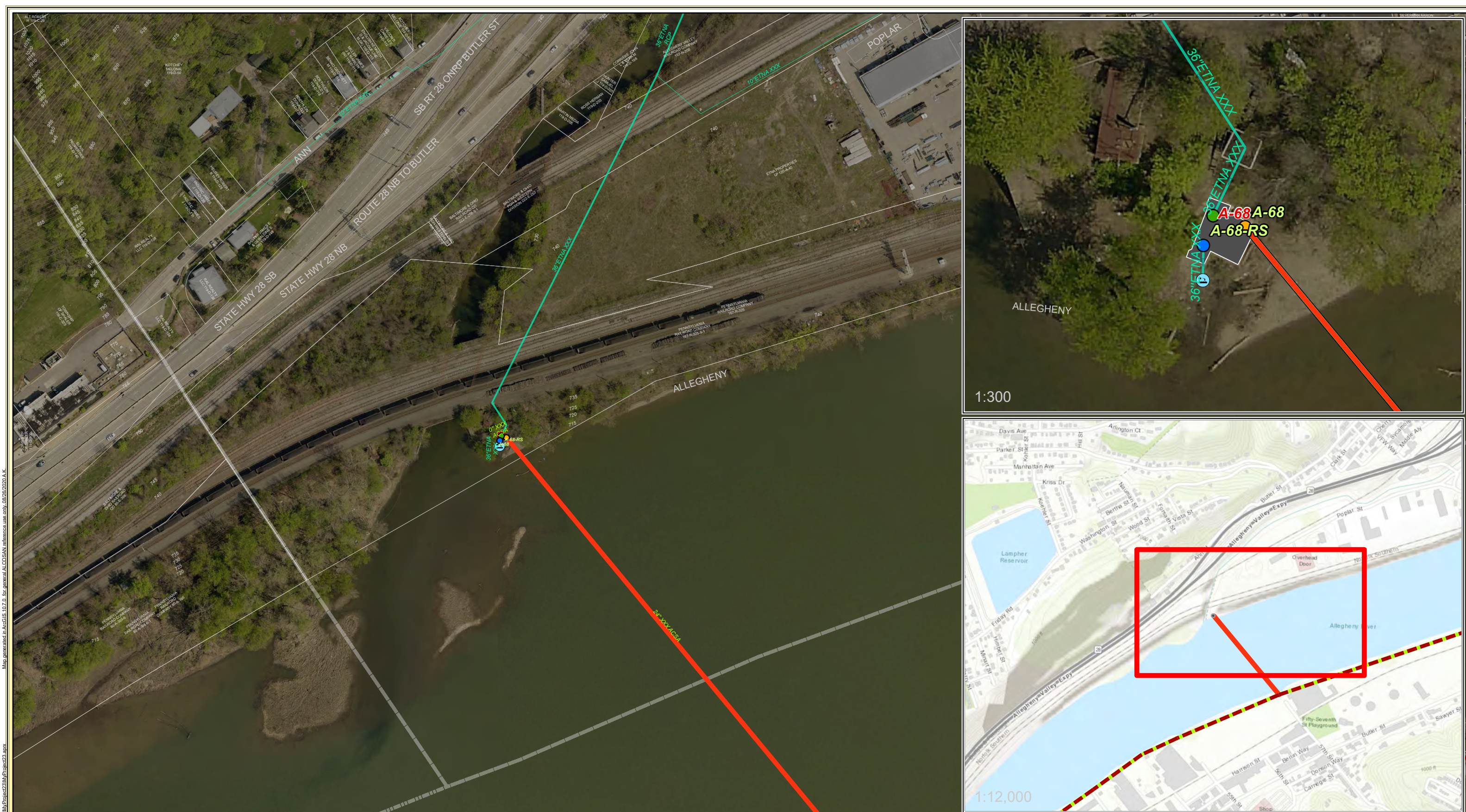
Page: **3-8**



Spatial Reference
Name: NAD 1983 StatePlane Pennsylvania South



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|-------------------------|--------------------|-------------------|
| Connector Pipe | ALCOSAN | Riverside Manhole |
| Overflow Pipe | Municipal Sewer | Regulator |
| Shallow-Cut Interceptor | Plant Side Manhole | Base_Structures |
| Deep-Tunnel Interceptor | Town Side Manhole | |



Map generated in ArcGIS 10.7.0. For general ALCOSAN reference use only. 08/26/2020 A.K.



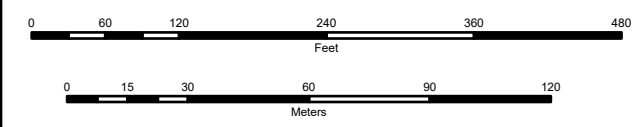
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Flap Gate Replacement**

Structure: A-68

Date: 4/22/2021

Drawn By: AK

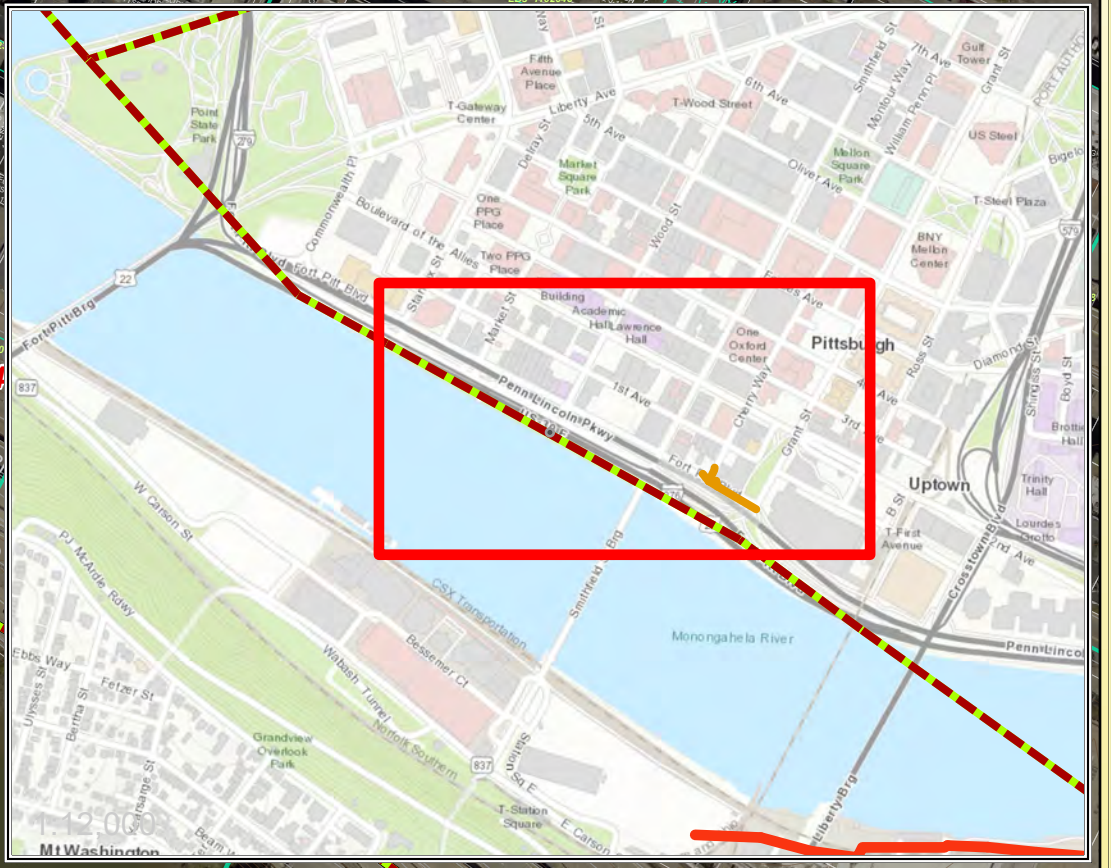
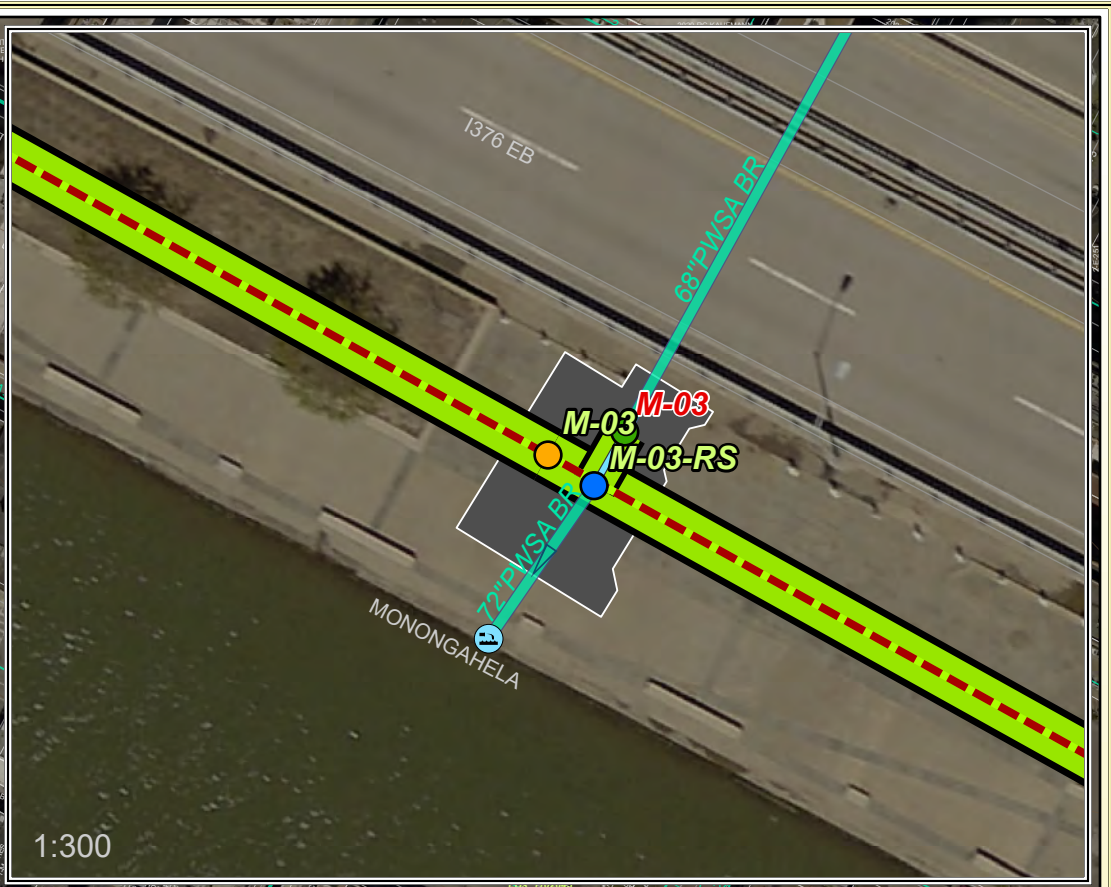
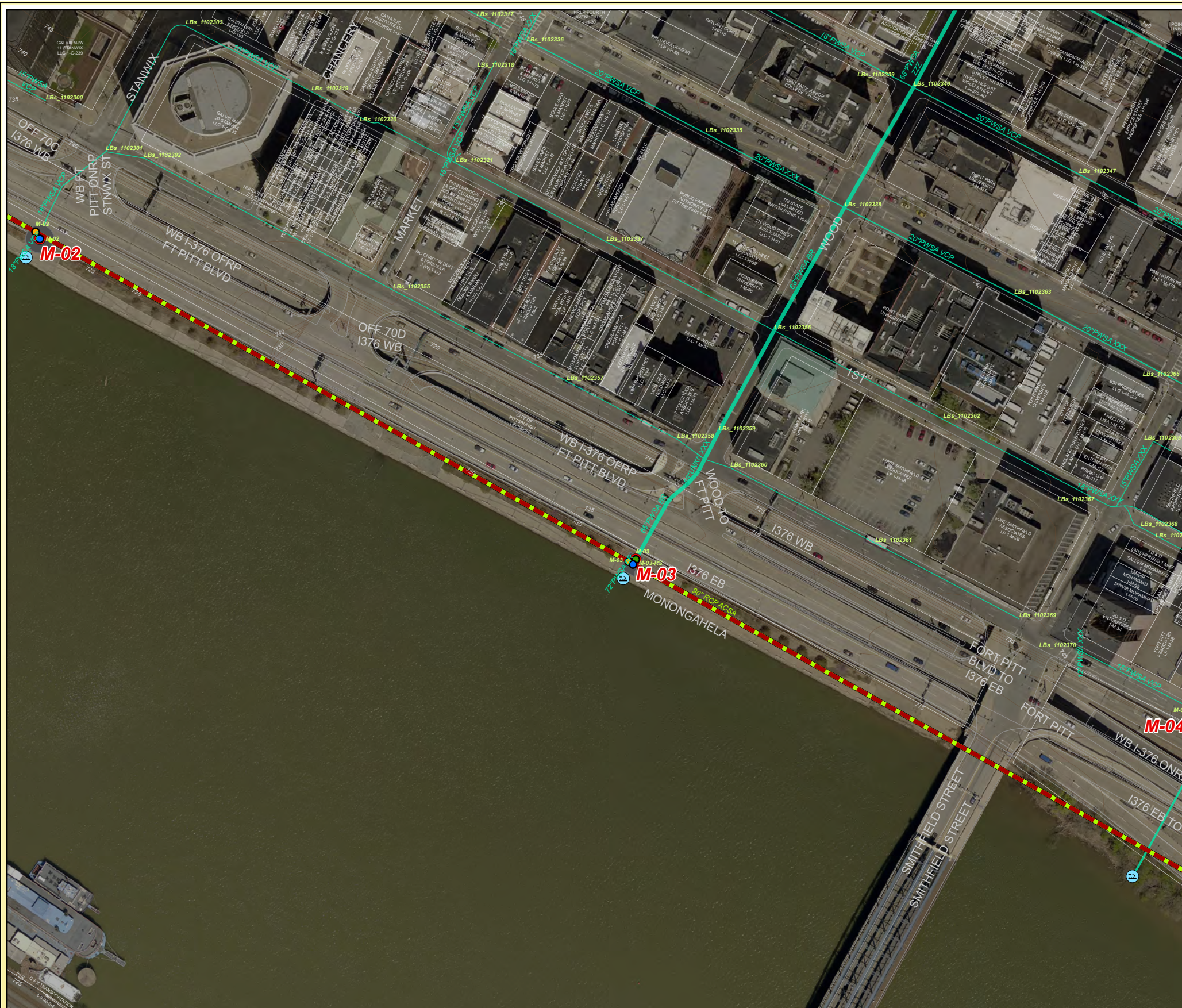
Page: **4-8**



Spatial Reference
Name: NAD 1983 StatePlane Pennsylvania South



Existing ALCOSAN Sewers		Combined Sewers		Riverside Manhole
Connector Pipe	ALCOSAN	Municipal Sewer	Regulator	Base Structures
Overflow Pipe	Plant Side Manhole	Deep-Tunnel Interceptor	Town Side Manhole	
Shallow-Cut Interceptor				



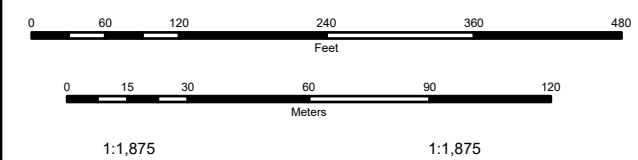
**ALCOSAN Contract 1724
Flap Gate Replacement**

Structure: M-03

Date: 4/22/2021

Drawn By: AK

Page: **5-8**



Spatial Reference
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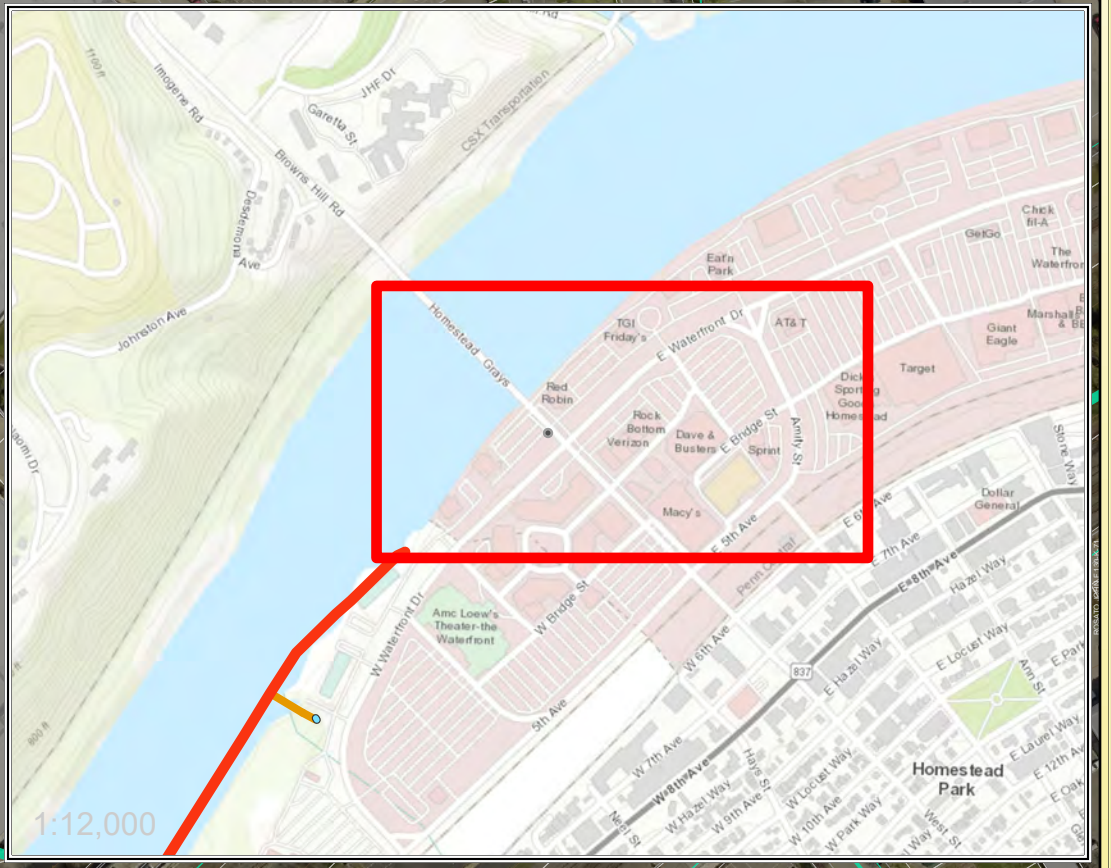
Existing ALCOSAN Sewers

- Connector Pipe
- Overflow Pipe
- Shallow-Cut Interceptor
- Deep-Tunnel Interceptor

Combined Sewers

- ALCOSAN
- Municipal Sewer
- Plant Side Manhole
- Town Side Manhole

- Riverside Manhole
- Regulator
- Base Structures



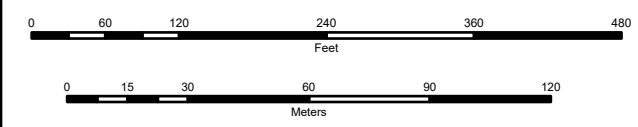
**ALCOSAN Contract 1724
Flap Gate Replacement**

Structure: M-45

Date: 4/22/2021

Drawn By: AK

Page: **6-8**



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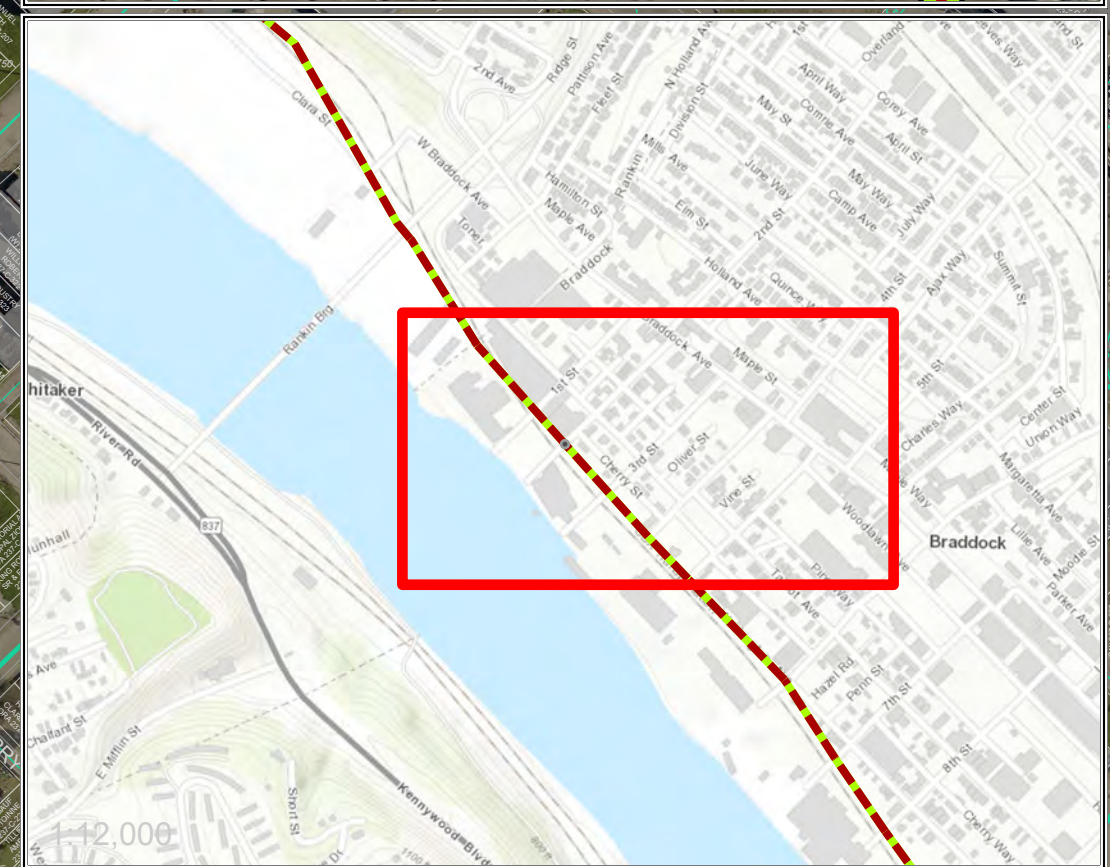
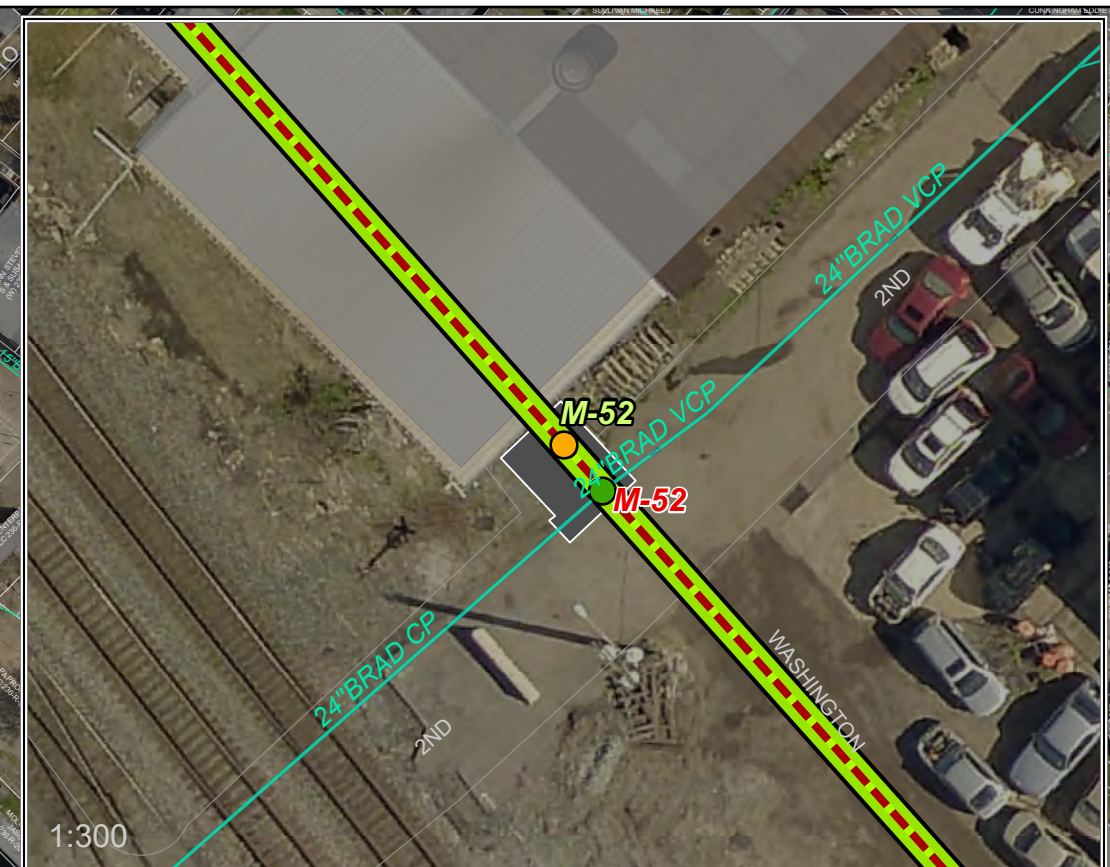
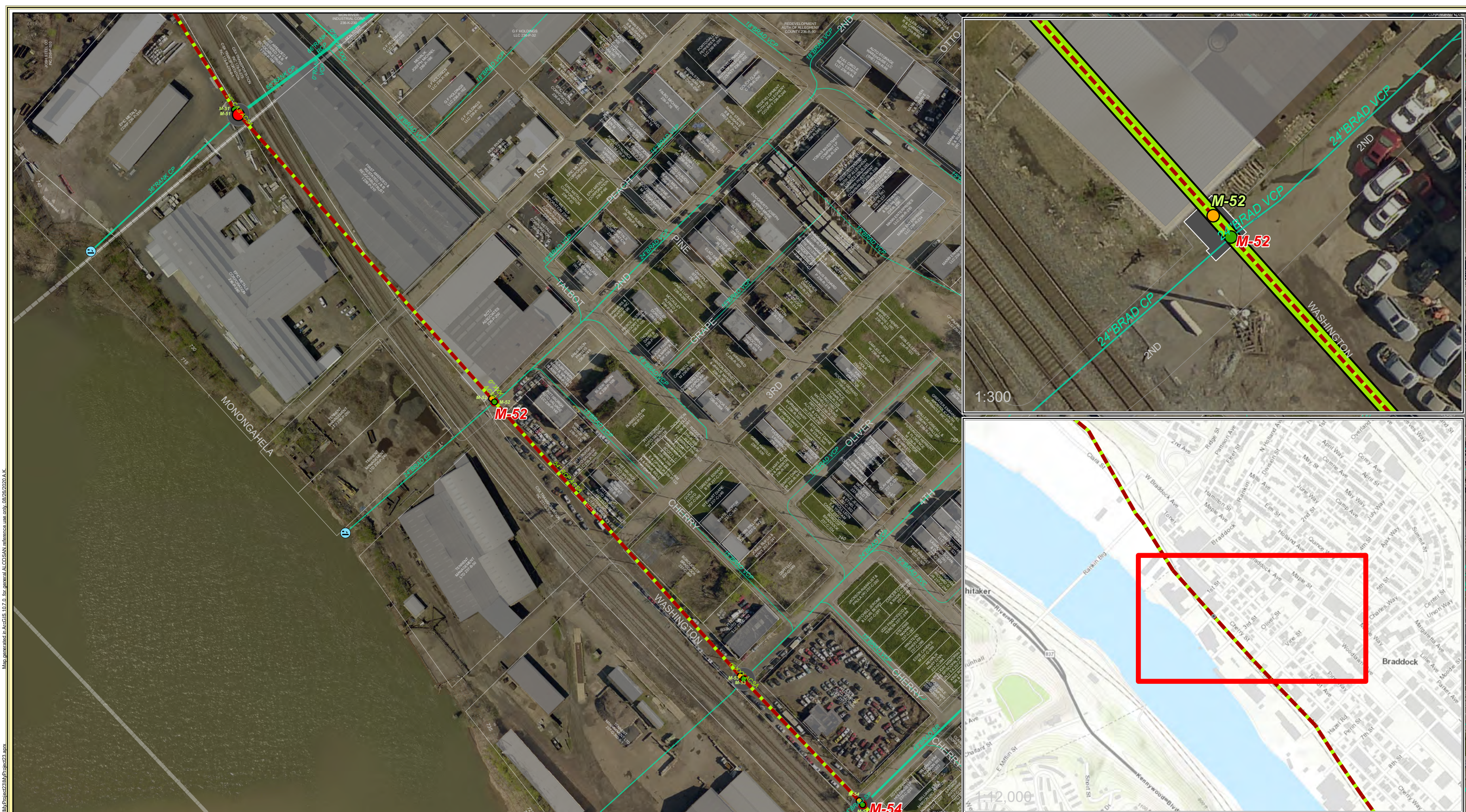
Existing ALCOSAN Sewers


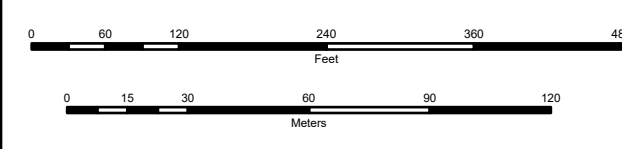












- Connector Pipe
- Overflow Pipe
- Shallow-Cut Interceptor
- Deep-Tunnel Interceptor

Combined Sewers

- ALCOSAN
- Municipal Sewer
- Plant Side Manhole
- Town Side Manhole

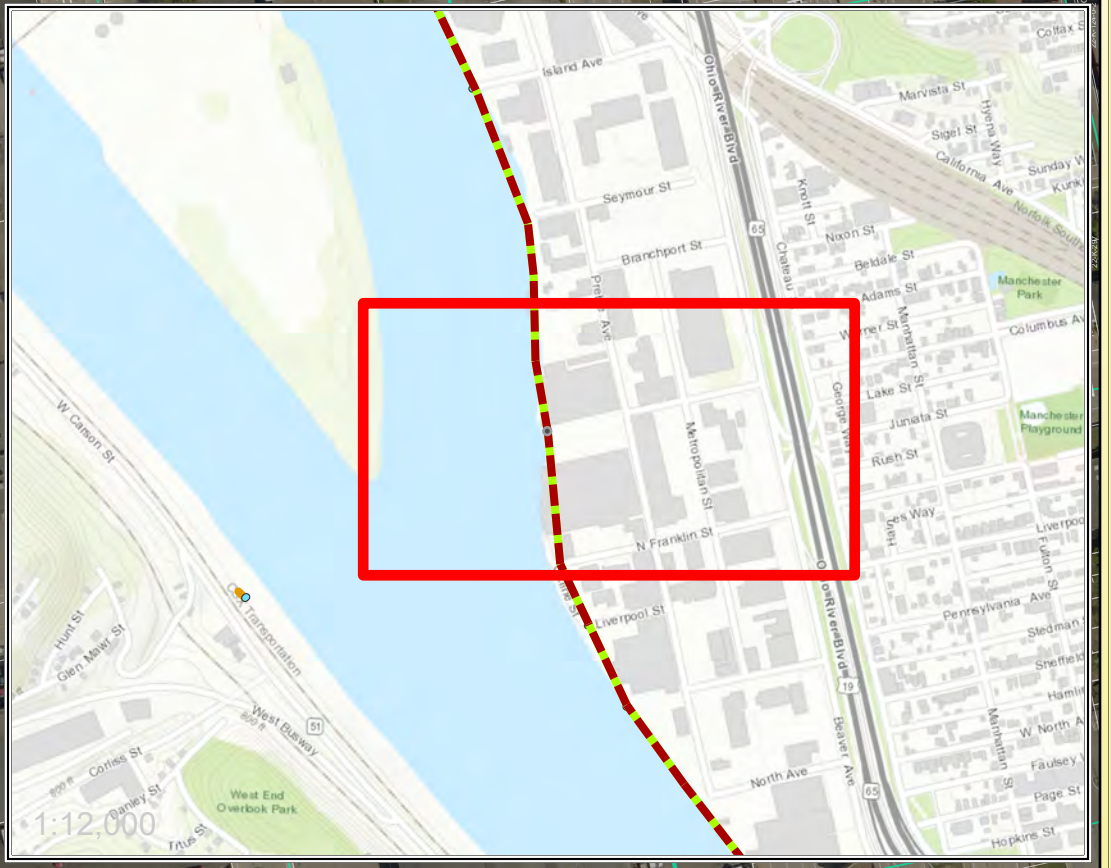
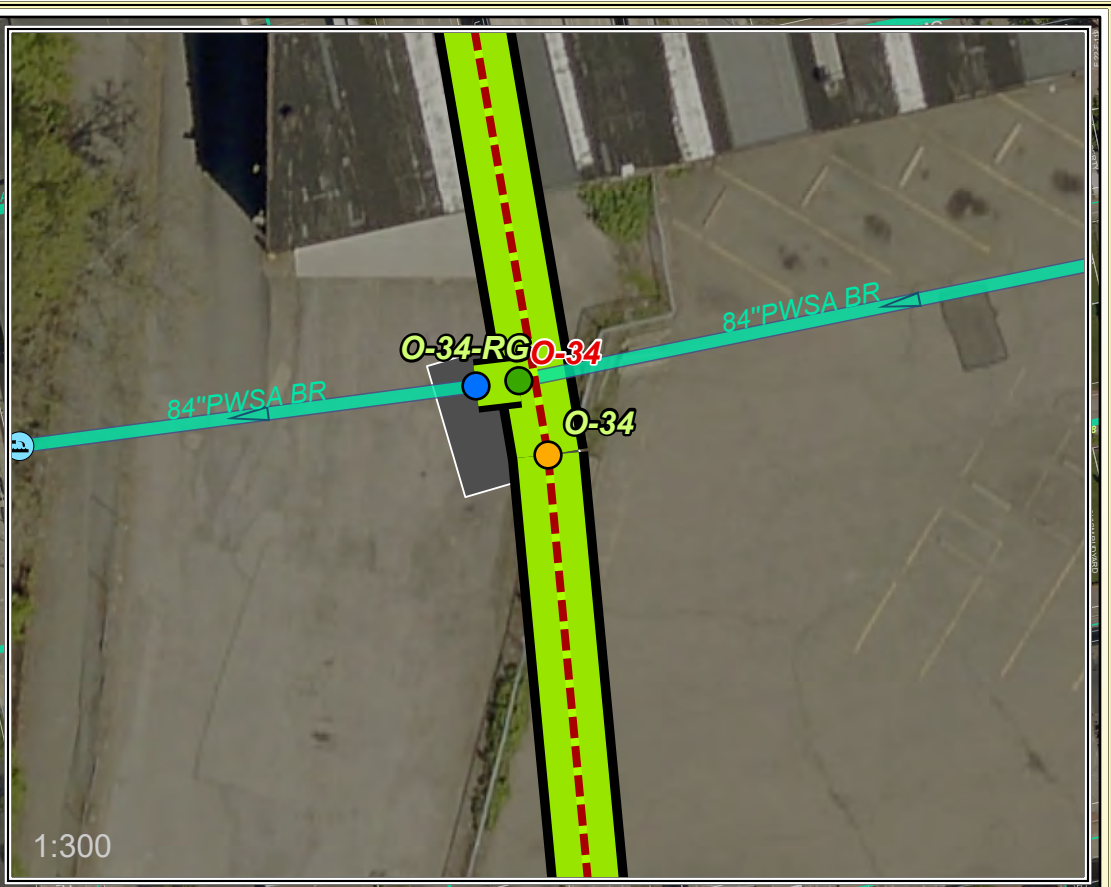
- Riverside Manhole
- Regulator
- Base Structures



	ALCOSAN Contract 1724 Flap Gate Replacement				Existing ALCOSAN Sewers  Connector Pipe  Overflow Pipe  Shallow-Cut Interceptor  Deep-Tunnel Interceptor	Combined Sewers  ALCOSAN  Municipal Sewer  Plant Side Manhole  Town Side Manhole	 Riverside Manhole  Regulator  Base Structures
	Structure: M-52						

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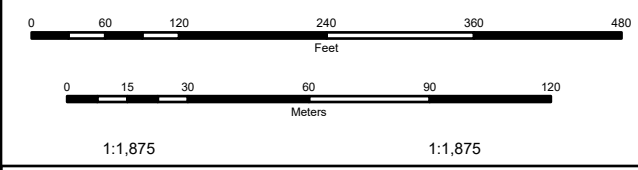
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**ALCOSAN Contract 1724
Flap Gate Replacement**

Structure: O-34

Date: 4/22/2021 Drawn By: AK Page: **8-8**



Spatial Reference
Name: NAD 1983 StatePlane Pennsylvania South



Existing ALCOSAN Sewers		Combined Sewers		Manholes and Structures	
	Connector Pipe		ALCOSAN		Riverside Manhole
	Overflow Pipe		Municipal Sewer		Regulator
	Shallow-Cut Interceptor		Plant Side Manhole		Base Structures
	Deep-Tunnel Interceptor		Town Side Manhole		

ATTACHMENT E: QUESTIONS AND ANSWERS

QUESTIONS AND ANSWERS

Items listed below represent questions received after the Pre-Bid Meeting on Thursday, April 8 2021 and prior to the deadline of 2:00 PM on, Monday, April 26, 2021.

Question: Can you please provide additional information regarding location of these 8 sites? I have not been able to figure out where any of these sites actually are based on the contract drawings. For the 2017 Flap Gate Contract, location maps were given with the bid docs. I will attach a couple of those here. We need these to figure out access, restoration, etc.?

Answer: Site location maps are included in Attachment D of this Addendum.

Question: Structure A-68, when we remove the in-line check valve, what is replacing that? I see that the flapgate at this location is to be removed and replaced, but the check valve only shows plans for removal. If nothing is going back into that spot, will any repair to the concrete structure be needed once it is removed?

Answer: The in-line check valve at A-68 will not be replaced. Repair the concrete as necessary with non-shrink grout.

Question: Regarding Structure A-31, please advise how Alcosan was planning to get a drill rig to the site if the only access is by barge? Although a drill rig could be placed on a barge, it would not be able to work from the barge as the barge would not be able to get close enough to the shore (due to water depth) to drill from. We need to access this site from the parking lot above it, at least for drilling the caissons.

Answer: The Contractor is responsible for determining the means and methods of construction.

Question: I would like to reiterate the question that someone asked during the prebid meeting to be sure that it is included: Which railroads will be affected by this project and do you have any contract info for them?

Answer: As stated in the Pre-Bid Meeting, the railroad near M-52 is CSX. The contractor is responsible for finding contact information for railroads.

Question: I see Exhibit D- Sales Tax Exemption. Is Alcosan exempt for sales tax on materials used on this project?

Answer: Sales to the Owner may be exempt from Pennsylvania Selective Sales and Use Taxes. Certain of the Bidder's tax obligations are described in more detail in Section 3.22 of the General Conditions entitled, "Sales and Use Tax."

****END OF ADDENDUM #1****