

Allegheny County Sanitary Authority
3300 Preble Avenue
Pittsburgh, PA 15233

CONTRACT NO. 1818 - SEPTEMBER 2025
MISCELLANEOUS FLAP GATE, SLUICE GATE, AND
VALVE REPLACEMENTS AT VARIOUS LOCATIONS



MEMBERS OF THE BOARD

- Shannah Tharp-Gilliam, Ph.D.

- Chairperson
- Rep. Emily Kinhead

- Vice-Chairperson
- Sylvia C. Wilson

- Treasurer
- Darrin Kelly

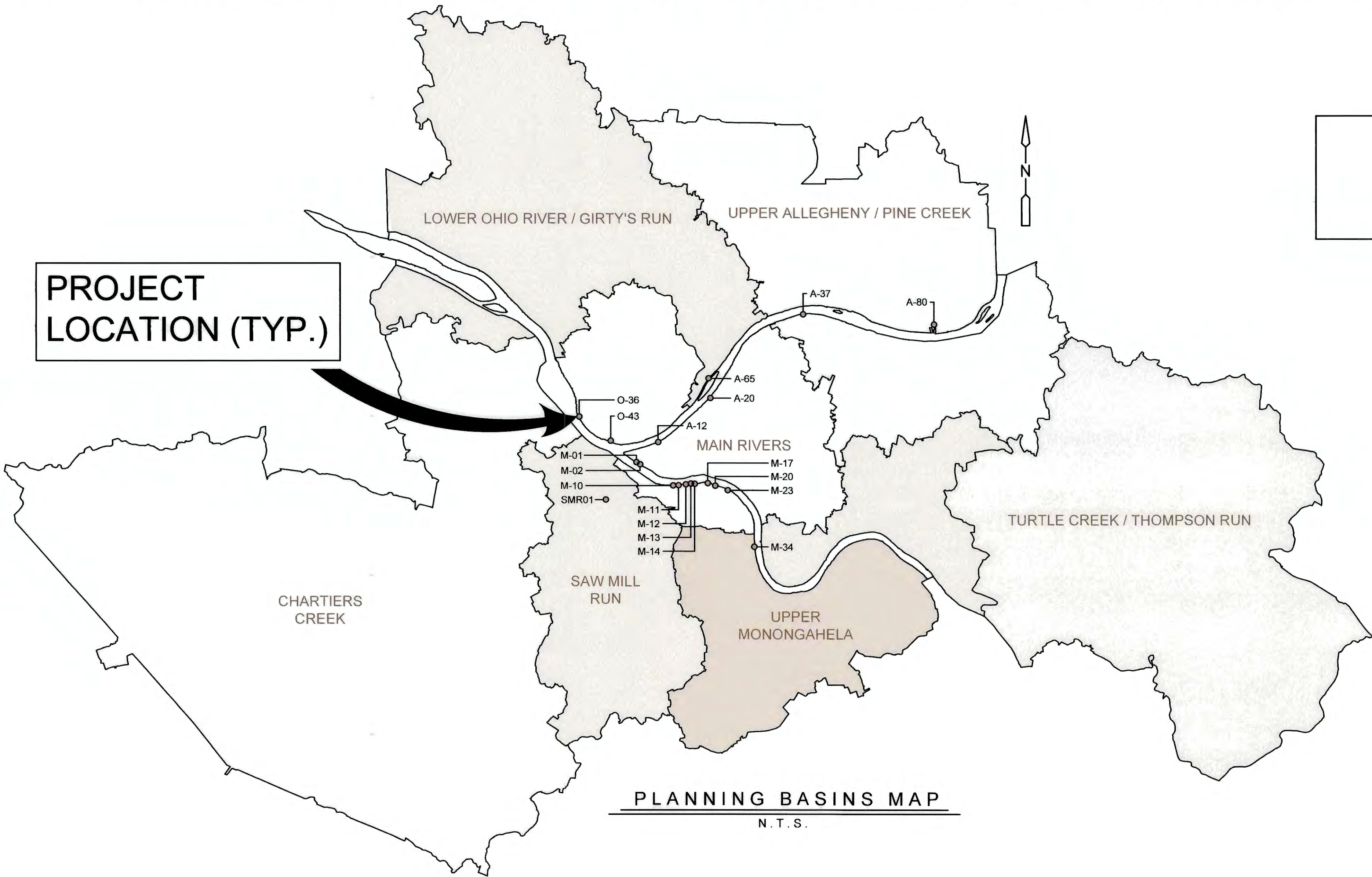
- Secretary
- Harry A. Readshaw

- Assistant Secretary/Treasurer
- Patrick J. Catena
- Theresa Kail-Smith
- Arletta Scott Williams

- Executive Director
- Michael Lichte, P.E.

- Director of Regional Conveyance

PROJECT
LOCATION (TYP.)



ISSUED FOR BID

PREPARED BY:



gai consultants



DESIGN SCALE

BAR IS ONE INCH ON
ORIGINAL DRAWING.
0 1"
IF NOT ONE INCH ON THIS SHEET,
ADJUST SCALES ACCORDINGLY.

ALCOSAN STANDARD REVISION MAY 2025

APPROVED

	11/7/2025
EXECUTIVE DIRECTOR	DATE
	11-3-25
DIRECTOR OF REGIONAL CONVEYANCE	DATE
	10-30-25
MANAGER OF CAPITAL PROJECTS, CONVEYANCE	DATE
	10-30-25
PROJECT ENGINEER	DATE

PLANNING BASINS MAP

N. T. S.

DRAWING INDEX		
SHEET NO.	DRAWING NO.	DRAWING DESCRIPTION
1	1818-COVR-01	COVER
2	1818-IND-01	DRAWING INDEX - VALVE AND GATE REPLACEMENTS
3	1818-GEN-01	PROJECT NOTES AND SCOPE OF WORK SUMMARY TABLES
4	1818-GEN-02	PA ONE CALL DESIGN TICKET SUMMARY
5	1818-DET-01	STRUCTURAL NOTES AND DETAILS
6	1818-DET-02	DOGHOUSE MANHOLE AND MANHOLE FRAME AND COVER
7	1818-A-12-PLSC-01	A-12 - BYPASS VALVE REPLACEMENT - DEMOLITION WORK PLANS AND SECTIONS
8	1818-A-12-PLSC-02	A-12 - BYPASS VALVE REPLACEMENT - NEW WORK PLANS AND SECTIONS
9	1818-A-20-PLSC-01	A-20 - BYPASS VALVE REPLACEMENT - PLANS AND SECTIONS
10	1818-M-01-PLSC-01	M-01 - BYPASS VALVE REPLACEMENT - PLANS AND SECTIONS
11	1818-M-02-PLSC-01	M-02 - BYPASS VALVE REPLACEMENT - PLANS AND SECTIONS
12	1818-M-10-PLSC-01	M-10 - BYPASS VALVE REPLACEMENT - PLANS AND SECTIONS
13	1818-M-11-PLSC-01	M-11 - BYPASS VALVE REMOVAL - PLANS AND SECTIONS
14	1818-M-12-PLSC-01	M-12 - BYPASS VALVE REMOVAL - PLANS AND SECTIONS
15	1818-M-13-PLSC-01	M-13 - BYPASS VALVE REPLACEMENT - PLANS AND SECTIONS
16	1818-M-14-PLSC-01	M-14 - BYPASS VALVE REPLACEMENT - PLANS AND SECTIONS
17	1818-M-17-PLSC-01	M-17 - BYPASS VALVE REMOVAL - PLANS AND SECTIONS
18	1818-M-20-PLSC-01	M-20 - BYPASS VALVE REMOVAL - PLANS AND SECTIONS
19	1818-M-23-PLSC-01	M-23 - BYPASS VALVE REMOVAL - PLANS AND SECTIONS
20	1818-O-36-PLSC-01	O-36 - BYPASS VALVE REMOVAL - PLANS AND SECTIONS
21	1818-O-43-PLSC-01	O-43 - BYPASS VALVE REPLACEMENT - PLANS AND SECTIONS
22	1818-A-37-PLSC-01	A-37 - FLAP GATE REPLACEMENT - PLANS AND SECTIONS
23	1818-A-65-PLSC-01	A-65 - FLAP GATE REPLACEMENT - DEMOLITION WORK PLANS AND SECTIONS
24	1818-A-65-PLSC-02	A-65 - FLAP GATE REPLACEMENT - NEW WORK PLANS AND SECTIONS
25	1818-M-34-PLSC-01	M-34 - FLAP GATE/TIDEFLEX REPLACEMENT - DEMOLITION WORK PLANS AND SECTIONS
26	1818-M-34-PLSC-02	M-34 - FLAP GATE/TIDEFLEX REPLACEMENT - NEW WORK PLANS AND SECTIONS
27	1818-A-80-PLN-01	A-80 - SLUICE GATE REPLACEMENT - NEW DOGHOUSE MANHOLE AND SITE PLAN
28	1818-A-80-PLSC-01	A-80 - SLUICE GATE REPLACEMENT - DEMOLITION WORK PLANS AND SECTIONS
29	1818-A-80-PLSC-02	A-80 - SLUICE GATE REPLACEMENT - NEW WORK PLANS AND SECTIONS
30	1818-S-01A-PLSC-01	S-01A - SLUICE GATE REPLACEMENT - DEMOLITION WORK PLANS AND SECTIONS
31	1818-S-01A-PLSC-02	S-01A - SLUICE GATE REPLACEMENT - MECHANICAL PLAN AND SECTION NEW WORK
32	1818-S-01A-PLSC-03	S-01A - SLUICE GATE REPLACEMENT - STRUCTURAL PLAN AND SECTION NEW WORK
33	1818-S-01A-DET-01	S-01A - SLUICE GATE REPLACEMENT - DETAILS AND SECTIONS
34	1818-S-01A-DET-02	S-01A - WEIR GATE REPLACEMENT - DETAILS AND SECTIONS
35	1818-A-65-ES-01	A-65 - FLAP GATE REPLACEMENT - EROSION AND SEDIMENT CONTROL PLAN
36	1818-A-65-ES-02	A-65 - FLAP GATE REPLACEMENT - EROSION AND SEDIMENT CONTROL DETAILS
37	1818-A-65-ES-03	A-65 - FLAP GATE REPLACEMENT - EROSION AND SEDIMENT CONTROL DETAILS
38	1818-A-65-ES-04	A-65 - FLAP GATE REPLACEMENT - EROSION AND SEDIMENT CONTROL DETAILS
39	1818-M-34-ES-01	M-34 - FLAP GATE/TIDEFLEX REPLACEMENT - EROSION AND SEDIMENT CONTROL PLAN
40	1818-M-34-ES-02	M-34 - FLAP GATE/TIDEFLEX REPLACEMENT - EROSION AND SEDIMENT CONTROL DETAILS
41	1818-M-34-ES-03	M-34 - FLAP GATE/TIDEFLEX REPLACEMENT - EROSION AND SEDIMENT CONTROL DETAILS
42	1818-M-34-ES-04	M-34 - FLAP GATE/TIDEFLEX REPLACEMENT - EROSION AND SEDIMENT CONTROL DETAILS

DRAWING INDEX CONTINUED		
SHEET NO.	DRAWING NO.	DRAWING DESCRIPTION
43	1818-A-80-ES-01	A-80 - SLUICE GATE REPLACEMENT - EROSION AND SEDIMENT CONTROL PLAN
44	1818-A-80-ES-02	A-80 - SLUICE GATE REPLACEMENT - EROSION AND SEDIMENT CONTROL DETAILS
45	1818-A-80-ES-03	A-80 - SLUICE GATE REPLACEMENT - EROSION AND SEDIMENT CONTROL DETAILS
46	1818-A-80-ES-04	A-80 - SLUICE GATE REPLACEMENT - EROSION AND SEDIMENT CONTROL DETAILS
47	1818-S-01A-ES-01	S-01A - SLUICE GATE REPLACEMENTS - EROSION AND SEDIMENT CONTROL PLAN
48	1818-S-01A-ES-02	S-01A - SLUICE GATE REPLACEMENTS - EROSION AND SEDIMENT CONTROL DETAILS
49	1818-S-01A-ES-03	S-01A - SLUICE GATE REPLACEMENTS - EROSION AND SEDIMENT CONTROL DETAILS
50	1818-A-12-TC-01	A-12 - BYPASS VALVE REPLACEMENT - MAINTENANCE & PROTECTION OF TRAFFIC
51	1818-A-20-TC-01	A-20 - BYPASS VALVE REPLACEMENT - MAINTENANCE & PROTECTION OF TRAFFIC
52	1818-A-37-TC-01	A-37 - FLAP GATE REPLACEMENT - MAINTENANCE & PROTECTION OF TRAFFIC
53	1818-A-65-TC-01	A-65 - FLAP GATE REPLACEMENT - MAINTENANCE & PROTECTION OF TRAFFIC
54	1818-M-01-TC-01	M-01 - BYPASS VALVE REPLACEMENT - MAINTENANCE & PROTECTION OF TRAFFIC
55	1818-M-02-TC-01	M-02 - BYPASS VALVE REPLACEMENT - MAINTENANCE & PROTECTION OF TRAFFIC
56	1818-M-11-TC-01	M-11 - BYPASS VALVE REPLACEMENT - MAINTENANCE & PROTECTION OF TRAFFIC
57	1818-M-12-TC-01	M-12 - BYPASS VALVE REPLACEMENT - MAINTENANCE & PROTECTION OF TRAFFIC
58	1818-M-13-TC-01	M-13 - BYPASS VALVE REPLACEMENT - MAINTENANCE & PROTECTION OF TRAFFIC
59	1818-M-14-TC-01	M-14 - BYPASS VALVE REPLACEMENT - MAINTENANCE & PROTECTION OF TRAFFIC
60	1818-M-17-TC-01	M-17 - BYPASS VALVE REPLACEMENT - MAINTENANCE & PROTECTION OF TRAFFIC
61	1818-M-20-TC-01	M-20 - BYPASS VALVE REPLACEMENT - MAINTENANCE & PROTECTION OF TRAFFIC
62	1818-M-23-TC-01	M-23 - BYPASS VALVE REPLACEMENT - MAINTENANCE & PROTECTION OF TRAFFIC
63	1818-M-34-TC-01	M-34 - FLAP GATE/TIDEFLEX REPLACEMENT - MAINTENANCE & PROTECTION OF TRAFFIC
64	1818-O-36-TC-01	O-36 - BYPASS VALVE REPLACEMENT - MAINTENANCE & PROTECTION OF TRAFFIC
65	1818-O-43-TC-01	O-43 - BYPASS VALVE REPLACEMENT - MAINTENANCE & PROTECTION OF TRAFFIC
66	1818-S-01A-TC-01	S-01A - SLUICE GATE REPLACEMENTS - MAINTENANCE & PROTECTION OF TRAFFIC
67	1818-LEG-TC-01	VALVE AND GATE REPLACEMENTS - CITY OF PITTSBURGH - MAINTENANCE & PROTECTION OF TRAFFIC
68	1818-LEG-TC-02	VALVE AND GATE REPLACEMENTS - CITY OF PITTSBURGH - MAINTENANCE & PROTECTION OF TRAFFIC

Designed by: E.WOLFF	REVISION			
	REV No.	DATE	DESCRIPTION	APPV
	1	9/2/2025	ISSUED FOR BID	
Drawn by: S.VOETTINER				
Checked by: D.TROIANOS				







ARLETTA SCOTT WILLIAMS
EXECUTIVE DIRECTOR, ALCOSAN

3300 PREBLE AVE.
PITTSBURGH, PA 15233
(412) 766 - 4810

www.alcosan.org

ALLEGHENY COUNTY SANITARY AUTHORITY REGIONAL CONVEYANCE SYSTEM MISCELLANEOUS FLAP GATE, SLUICE GATE, AND VALVE REPLACEMENTS AT VARIOUS LOCATIONS		Contract: 1818
IND-01 DRAWING INDEX VALVE AND GATE REPLACEMENTS		CAD File Name: 1818-IND-01.DWG
		Date: 06/11/2025
		Sheet: 2 of 68

SCOPE OF WORK:

1. SITES A-12, A-20, M-01, M-02, M-10, M-13, M-14, AND O-43: REMOVE EXISTING BYPASS VALVES, FURNISH AND INSTALL REPLACEMENT BYPASS VALVES. ADDITIONAL DEMOLITION AND STRUCTURAL MODIFICATIONS ARE REQUIRED TO REMOVE THE BYPASS VALVE AT SITE A-12.
2. SITES M-11, M-12, M-17, M-20, M-23, AND O-36: REMOVE EXISTING BYPASS VALVES, FURNISH AND INSTALL BLIND FLANGES ONTO THE BYPASS PIPING.
3. SITE A-37: REMOVE EXISTING 24" FLAP GATE, FURNISH AND INSTALL REPLACEMENT 24" FLAP GATE. FURNISH AND INSTALL RUBBER FLAP GATE PROTECTION FENDERS ON OUTSIDE OF STRUCTURE.
4. SITE A-65: REMOVE EXISTING 36" X 36" FLAP GATE AND EXISTING WALL THIMBLE, FURNISH AND INSTALL NEW 36" FLANGED WALL PIPE AND FLAP GATE.
5. SITE M-34: REMOVE EXISTING 48" DUCKBILL CHECK VALVE AND THIMBLE PLATE. FURNISH AND INSTALL NEW 48" FLANGED WALL PIPE AND FLAP GATE AND INSTALL FLAP GATE PROTECTION WALL EXTENSION ON UPSTREAM WINGWALL.
6. SITE A-80: INSTALL NEW DOGHOUSE MANHOLE ON 24" REINFORCED CONCRETE PIPE SEWER INLET ADJACENT TO A-80 STRUCTURE. DEMOLITION OF EXISTING 24" SLUICE GATE AND FRAME (EXISTING WALL THIMBLE TO BE ABANDONED IN PLACE). FURNISH AND INSTALL REPLACEMENT 30" CAST IRON WALL MOUNTED SLUICE GATE.
7. S-01A: REMOVE 3 EXISTING WALL MOUNTED GATES AND FRAMES (48" ROUND BOTTOM SLUICE GATE, 42" ROUND BOTTOM SLUICE GATE, AND 60" X 72" WEIR SLUICE GATE). FURNISH AND INSTALL 48" ROUND BOTTOM SLUICE GATE, 42" ROUND BOTTOM SLUICE GATE, AND 60" X 72" WEIR SLUICE GATE. DEMOLITION OF THE CHAMBER TOP SLAB IS REQUIRED FOR PROPOSED SLUICE GATE INSTALLATION. SELECTIVE DEMOLITION OF EXISTING CHAMBER BENCHING IS REQUIRED FOR 48" AND 42" SLUICE GATE REMOVAL. REPLACE TOP SLAB AS REQUIRED AND FURNISH AND INSTALL 3 REPLACEMENT MANHOLES AND COVERS.

BYPASS VALVE SCOPE OF WORK SUMMARY TABLE						
REGULATOR STRUCTURE	ASSET NODE ID	BYPASS VALVE SIZE	SCOPE OF WORK SUMMARY	EXTENSION STEM HANDWHEEL & STEM LENGTH (IN)"	PRE-DESIGN FIELD INSPECTION OBSERVED CONDITIONS SUMMARY	DATE OF PRE-DESIGN FIELD INSPECTION
A-12	A-12-BV	10"	DEMO OF VALVE PIT TOP SLAB. REMOVE GRAVEL FROM VALVE PIT. SELECTIVE DEMO OF VALVE PIT WALLS. REPLACE BYPASS VALVE. RESTORE VALVE PIT WALL. INSTALL NEW VALVE PIT COVER (FRP GRATING).	YES-4"	PHOTO PROVIDED IS FROM AN ALCOSAN VIDEO INSPECTION	5/12/2023
A-20	A-20-BV	6"	REPLACE BYPASS VALVE	NO	REGULATOR HAD MODERATE FLOW AND HEAVY SLUDGE BUILDUP	4/23/2024
M-01	M-01-BV	6"	REPLACE BYPASS VALVE	NO	REGULATOR HAD MODERATE FLOW AND HEAVY SLUDGE BUILDUP	5/3/2024
M-02	M-02-BV	6"	REPLACE BYPASS VALVE	NO	REGULATOR HAD LOW FLOW AND HEAVY SLUDGE BUILDUP	5/3/2024
M-10	M-10-BV	8"	REPLACE BYPASS VALVE	NO	REGULATOR HAD HIGH FLOW AND LIGHT SLUDGE BUILDUP	4/8/2024
M-11	M-11-BV	6"	REMOVE BYPASS VALVE AND INSTALL BLIND FLANGE	N/A	REGULATOR HAD LOW FLOW AND MODERATE SLUDGE BUILDUP	5/3/2024
M-12	M-12-BV	6"	REMOVE BYPASS VALVE AND INSTALL BLIND FLANGE	N/A	BV IS IN CLOSE PROXIMITY TO THE CHAMBER PLATFORM; REGULATOR HAD LOW FLOW AND HEAVY SLUDGE BUILDUP	4/22/2024
M-13	M-13-BV	6"	REPLACE BYPASS VALVE	YES-5"	BV IS IN CLOSE PROXIMITY TO CHAMBER PLATFORM; REGULATOR HAD MODERATE FLOW AND MODERATE SLUDGE BUILDUP	4/8/2024
M-14	M-14-BV	6"	REPLACE BYPASS VALVE	YES-4"	BV IS IN CLOSE PROXIMITY TO CHAMBER PLATFORM; REGULATOR HAD MODERATE FLOW AND HEAVY SLUDGE BUILDUP	4/22/2024
M-17	M-17-BV	6"	REMOVE BYPASS VALVE AND INSTALL BLIND FLANGE	N/A	BV IS IN CLOSE PROXIMITY TO CHAMBER PLATFORM; REGULATOR HAD LOW FLOW AND HEAVY SLUDGE BUILDUP	4/22/2024
M-20	M-20-BV	6"	REMOVE BYPASS VALVE AND INSTALL BLIND FLANGE	N/A	BV IS IN CLOSE PROXIMITY TO CHAMBER PLATFORM; REGULATOR HAD LOW FLOW AND LIGHT SLUDGE BUILDUP	4/26/2024
M-23	M-23-BV	6"	REMOVE BYPASS VALVE AND INSTALL BLIND FLANGE	N/A	BV IS IN CLOSE PROXIMITY TO CHAMBER PLATFORM; REGULATOR HAD MODERATE FLOW AND LIGHT SLUDGE BUILDUP	4/26/2024
O-36	O-36-BV	6"	REMOVE BYPASS VALVE AND INSTALL BLIND FLANGE	N/A	REGULATOR HAD LOW FLOW AND LIGHT SLUDGE BUILDUP	6/4/2024
O-43	O-43-BV	6"	REPLACE BYPASS VALVE	NO	REGULATOR HAD MODERATE FLOW AND LIGHT SLUDGE BUILDUP	4/23/2024
* CONFIRMING THE NEED FOR HANDWHEEL EXTENSION STEM AND ASSOCIATED STEM LENGTHS ARE THE RESPONSIBILITY OF THE CONTRACTOR AS IT WILL VARY BASED ON SELECTED BYPASS VALVE MANUFACTURER. PRELIMINARY INFORMATION PROVIDED HEREIN IS FOR INITIAL REFERENCE ONLY.						

FLAP GATE SCOPE OF WORK SUMMARY TABLE					
REGULATOR STRUCTURE	ASSET NODE ID	FLAP GATE SIZE DIA.	SCOPE OF WORK SUMMARY	PRE-DESIGN FIELD INSPECTION OBSERVED CONDITIONS SUMMARY	DATE OF PRE-DESIGN FIELD INSPECTION
A-37	A-37-FG	24"	REPLACE FLAP GATE ON EXISTING WALL PIPE FLANGE; INSTALL FENDERS ON OUTSIDE OF STRUCTURE	FLAP GATE IS DAMAGED AT HINGE AND NOT SEATING PROPERLY	4/23/2024
A-65	A-65-FG	36"	DEMO EXISTING FLAP GATE AND WALL THIMBLE; INSTALL NEW FLANGED WALL PIPE AND FLAP GATE	SQUARE FLAP GATE IS NOT SEATING PROPERLY	4/24/2024
M-34	M-34-FG	48"	DEMO EXISTING DUCKBILL CHECK VALVE AND THIMBLE PLATE; INSTALL NEW FLANGED WALL PIPE AND FLAP GATE; EXTEND UPSTREAM WING WALL	DUCKBILL CHECK VALVE IS NOT SEALING CLOSED PROPERLY	5/2/2024

SLUICE AND WEIR GATE SCOPE OF WORK SUMMARY TABLE

REGULATOR STRUCTURE	ASSET NODE ID	GATE SIZE	SCOPE OF WORK SUMMARY*	EXISTING GATE DESCRIPTION	DATE OF PRE-DESIGN FIELD INSPECTION
A-80	A-80-SG	30"X30"	REMOVE EXISTING SLUICE GATE ASSEMBLY AND RELATED APPURTENANCES (EXISTING WALL THIMBLE TO BE ABANDONED IN PLACE. REMOVE MOUNTING STUDS). INSTALL NEW WALL MOUNTED SLUICE GATE ASSEMBLY AND RELATED APPURTENANCES. RESTORE CONCRETE BENCHING REMOVED DURING DEMOLITION OF EXISTING WORK.	24" x 24" CAST IRON, FLUSH INVERT GATE, INSTALLED ON 24"Ø WALL THIMBLE. NORMALLY OPEN.	8/7/2024
S-01A**	S-01A-EAST	42"X42" ROUND BOTTOM	REMOVE EXISTING WALL MOUNT SLUICE GATE ASSEMBLY AND RELATED APPURTENANCES (SELECTIVE DEMOLITION OF CHANNEL BENCHING REQUIRED). INSTALL NEW WALL MOUNT SLUICE GATE ASSEMBLY AND RELATED APPURTENANCES. RESTORE CHANNEL BENCHING REMOVED DURING DEMOLITION OF EXISTING WORK.	ROUND BOTTOM, FLUSH INVERT, WALL MOUNT. NORMALLY OPEN. INSTALLED ON EAST CHAMBER 42" OUTLET. GATE FRAME PARTIALLY ENCASED IN CONCRETE CHANNEL BENCHING. NORMALLY OPEN.	4/24/2025
	S-01A-WEST	48"X48" ROUND BOTTOM	REMOVE EXISTING WALL MOUNT SLUICE GATE ASSEMBLY AND RELATED APPURTENANCES (SELECTIVE DEMOLITION OF CHANNEL BENCHING REQUIRED). INSTALL NEW WALL MOUNT SLUICE GATE ASSEMBLY AND RELATED APPURTENANCES. RESTORE CHANNEL BENCHING REMOVED DURING DEMOLITION OF EXISTING WORK.	ROUND BOTTOM, FLUSH INVERT, WALL MOUNT. NORMALLY OPEN. INSTALLED ON WEST CHAMBER 48" OUTLET. GATE FRAME PARTIALLY ENCASED IN CONCRETE CHANNEL BENCHING. NORMALLY OPEN.	4/24/2025
	S-01A-OF	60"X72"	REMOVE EXISTING WEIR GATE ASSEMBLY AND RELATED APPURTENANCES. INSTALL NEW WALL MOUNTED SLUICE GATE ASSEMBLY AND RELATED APPURTENANCES.	ACTS AS COMBINED SEWER OVERFLOW WEIR. INSTALLED ON OPENING BETWEEN STRUCTURE'S EAST AND OVERFLOW CHAMBERS. TRAVEL RANGE: 24" TO 60" ABOVE OPENING INVERT.	4/24/2025
*WORK AT S-01A STRUCTURE REQUIRES REMOVAL AND REPLACEMENT OF THE STRUCTURE TOP SLAB. CONTRACTOR TO SAW CUT STRUCTURE AT WALL/TOP SLAB INTERFACE. **NOTE THAT STRUCTURE S-01A MAY ALSO BE REFERRED TO AS SMR-01 OR SMR01 ON SOME OLDER RECORD FILES.					

SPECIAL REQUIREMENTS:

1. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL DIMENSIONS AND CONDITIONS IN THE FIELD PRIOR TO ORDERING EQUIPMENT, MATERIAL AND APPURTENANCES. THE CONTRACTOR IS RESPONSIBLE FOR REPORTING TO THE OWNER AND ENGINEER ANY AND ALL CONDITIONS WHICH MAY INTERFERE OR OTHERWISE AFFECT OR PREVENT THE PROPER EXECUTION OF THE WORK.
2. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING FUNCTIONALITY OF THE OUTLET STRUCTURE DURING THE EXECUTION OF WORK AND DURING ALL WET WEATHER EVENTS.
3. THE CONTRACTOR IS RESPONSIBLE FOR DESIGNING, PROVIDING, AND MAINTAINING TEMPORARY FACILITIES TO DEWATER THE AREA OF WORK AND PROVIDE PUMPS, BACKUP PUMPS, BULKHEADS, COFFERDAMS, MATERIALS AND EQUIPMENT AS NECESSARY TO PROVIDE FOR A DRY INSTALLATION.
4. CONTRACTOR IS RESPONSIBLE FOR MAINTAINING FORWARD FLOW THROUGH THE CONTRACT WORK ZONE AT ALL TIMES. MAINTENANCE OF FLOW AND/OR PA PE STAMPED BYPASS PLANS SHALL BE SUBMITTED BY THE CONTRACTOR AND APPROVED BY THE OWNER FOR ALL STRUCTURES PRIOR TO BEGINNING ANY CONTRACT CONSTRUCTION.
5. CONSTRUCTION WORK AT INDIVIDUAL SITES IS NOT TO START UNTIL RECEIVING WRITTEN NOTICE FROM THE OWNER CONFIRMING THAT ALL NECESSARY PERMITS / APPROVALS ARE RECEIVED FOR THAT SITE AND HASP IS SUBMITTED AND APPROVED BY ALCOSAN INCLUDING BUT NOT LIMITED TO WORK AT SITES: A-65 AND M-34. IT IS ASSUMED THAT WORK AT SITE A-37 DOES NOT REQUIRE A COFFERDAM AND THUS A PADEP GP-11 PERMIT APPLICATION HAS NOT BEEN SUBMITTED; CONTRACTOR IS TO REPORT TO THE OWNER AND ENGINEER IF A COFFERDAM WILL BE NEEDED SO THAT APPROPRIATE PERMITTING / APPROVALS CAN BE OBTAINED PRIOR TO START OF WORK. CONTRACTOR IS RESPONSIBLE FOR OBTAINING ANY MAINTENANCE AND PROTECTION OF TRAFFIC CONTROL RELATED PERMITS FOR WORK AT SITES INCLUDING BUT NOT LIMITED TO A-12 AND O-36.

GENERAL NOTES:

1. DIVERSION STRUCTURE BACKGROUND AND INFORMATION SHOWN ARE BASED ON ALCOSAN RECORD DRAWINGS AS SPECIFICALLY NOTED ON EACH DRAWING AND DO NOT NECESSARILY REFLECT ACTUAL EXISTING CONDITIONS.
2. EXISTING EQUIPMENT, PIPING, FITTINGS, AND APPURTENANCES SHALL BE DEMOLISHED ACCORDING TO PLANS AND SPECIFICATIONS. UNLESS OTHERWISE NOTED ON THE DRAWINGS OR IN THE PROJECT MANUAL ALL DEMOLISHED MATERIAL SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED FROM THE SITE BY THE CONTRACTOR. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO MANAGE ALL MISCELLANEOUS CONSTRUCTION WASTE (EXCESS SOIL MATERIAL, APPURTENANCES, CONCRETE, PIECE OF PIPE, PALLETS, PACKAGING, ETC.); UNSUITABLE MATERIAL; AND GARBAGE WHICH SHALL BE HAULED OFF THE SITE AND DISPOSED OF AT AN APPROVED LOCATION IN COMPLIANCE WITH ALL LOCAL, STATE, AND FEDERAL REGULATIONS.

BYPASS VALVE REQUIREMENTS:

1. EXISTING BYPASS VALVE FLANGES ARE CLOSE TO THE CHAMBER WALL AND FLOOR. CONCRETE REMOVAL REQUIRED FOR DEMOLITION OF EXISTING VALVES AND PLACEMENT OF NEW VALES OR BLIND FLANGES IS CONSIDERED INCIDENTAL TO THE WORK AND WILL BE PERFORMED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER. THE CONTRACTOR IS RESPONSIBLE FOR THE RESTORATION OF ANY CONCRETE REMOVED OF OR DAMAGED DUE TO CONSTRUCTION ACTIVITIES AT NO ADDITIONAL COST TO OWNER. NEED FOR CONCRETE REMOVAL SHALL BE COORDINATED WITH CONSTRUCTION MANAGER.
2. ANY DAMAGE TO THE EXISTING BYPASS PIPING RELATED TO THE CONTRACTOR'S REMOVAL OF THE EXISTING BYPASS VALVE SHALL BE REPAIRED BY THE CONTRACTOR TO THE OWNER'S SATISFACTION AT NO ADDITIONAL COST TO THE OWNER.
3. CONTRACTOR TO USE THE SAME MAKE/MODEL FOR ALL BYPASS VALVE REPLACEMENTS UNDER THIS CONTRACT.

FLAP GATE REQUIREMENTS:

1. CONTRACTOR TO CONFIRM ALL WALL PIPE FLANGE IS WITHIN PLUS OR MINUS 1/64" OF A TRUE FLAT PLANE AND TRUE TO THE VERTICAL PLANE. THIS INCLUDES NEWLY INSTALLED WALL PIPE FLANGES AT SITES A-65 AND M-34 AND THE EXISTING WALL PIPE FLANGE AT SITE A-37. SAID CONFIRMATION SHALL BE COORDINATED WITH CONSTRUCTION MANAGER PRIOR TO GATE INSTALLATION.

SLUICE GATE REQUIREMENTS:

1. ALL SLUICE GATE OPERATORS TO BE COMPATIBLE FOR USE WITH HYDRANT BUDDY XL PORTABLE VALVE ACTUATOR.
2. GATE LIFTING COMPONENTS TO BE DESIGNED PER INPUT EFFORT AS DEFINED IN SPECIFICATION 15114 SLUICE GATES. FOR THE SLUICE GATE AT THE A-80 STRUCTURE AND THE EAST AND WEST CHAMBER SLUICE GATGES AT THE S-01A STRUCTURE THE GATE STEM DIAMETER WILL LIKELY BE IN EXCESS OF 2" DUE TO THE SPECIFIED 600 LB FT INPUT EFFORT.

Designed by: E.WOLFF Drawn by: S.VOETTNER Checked by: D.TROIANOS	REVISION								ARLETTA SCOTT WILLIAMS EXECUTIVE DIRECTOR, ALCOSAN 3300 PREBLE AVE. PITTSBURGH, PA 15233 (412) 766 - 4810 www.alcosan.org	ALLEGHENY COUNTY SANITARY AUTHORITY REGIONAL CONVEYANCE SYSTEM MISCELLANEOUS FLAP GATE, SLUICE GATE, AND VALVE REPLACEMENTS AT VARIOUS LOCATIONS GEN-01 PROJECT NOTES AND SCOPE OF WORK SUMMARY TABLES	Contract: 1818
	REV No.	DATE	DESCRIPTION	APPV							CAD File Name: 1818-GEN-01.DWG
	1	9/2/2025	ISSUED FOR BID								Date: 06/11/2025
											Sheet: 3 of 68

PA ONE CALL SUMMARY TABLE					
REGULATOR STRUCTURE	PA ONE CALL SERIAL NUMBER	MESSAGE TYPE	DATE	LOCATION	UTILITY COMPANIES
A-12	20251781808	FINAL DESIGN	JUNE 27, 2025	ALLEGHENY COUNTY CITY OF PITTSBURGH, WARD 2	PEOPLES GAS COMPANY LLC, ALLEGHENY COUNTY SANITARY AUTHORITY, VERIZON PENNSYLVANIA LLC, PITTSBURGH WATER, PITTSBURGH CITY DEPARTMENT OF MOBILITY & INFRASTRUCTURE, SARGENT ELECTRIC, DUQUESNE LIGHT CO., PACT STANWIX PLANT, CONSOLIDATED COMMUNICATIONS
A-20	20251781810	FINAL DESIGN	JUNE 27, 2025	ALLEGHENY COUNTY CITY OF PITTSBURGH, WARD 6	PEOPLES GAS COMPANY LLC, ALLEGHENY COUNTY SANITARY AUTHORITY, VERIZON PENNSYLVANIA LLC, PITTSBURGH WATER, SARGENT ELECTRIC, DUQUESNE LIGHT CO.
M-01	20251781809	FINAL DESIGN	JUNE 27, 2025	ALLEGHENY COUNTY CITY OF PITTSBURGH, WARD 1	PEOPLES GAS COMPANY LLC, ALLEGHENY COUNTY SANITARY AUTHORITY, CROWN CASTLE, VERIZON PENNSYLVANIA LLC, PITTSBURGH WATER, PITTSBURGH CITY DEPARTMENT OF MOBILITY & INFRASTRUCTURE, SARGENT ELECTRIC, DUQUESNE LIGHT CO., PA-TD, DQE COMMUNICATIONS LLC, VERIZON BUSINESS FORMERLY MCI, PACT STANWIX PLANT, CONSOLIDATED COMMUNICATIONS
M-02	20251781809	FINAL DESIGN	JUNE 27, 2025	ALLEGHENY COUNTY CITY OF PITTSBURGH, WARD 1	PEOPLES GAS COMPANY LLC, ALLEGHENY COUNTY SANITARY AUTHORITY, CROWN CASTLE, VERIZON PENNSYLVANIA LLC, PITTSBURGH WATER, PITTSBURGH CITY DEPARTMENT OF MOBILITY & INFRASTRUCTURE, SARGENT ELECTRIC, DUQUESNE LIGHT CO., PA-TD, DQE COMMUNICATIONS LLC, VERIZON BUSINESS FORMERLY MCI, PACT STANWIX PLANT, CONSOLIDATED COMMUNICATIONS
M-10	20251781811	FINAL DESIGN	JUNE 27, 2025	ALLEGHENY COUNTY CITY OF PITTSBURGH, WARD 17	PEOPLES GAS COMPANY LLC, ALLEGHENY COUNTY SANITARY AUTHORITY, VERIZON PENNSYLVANIA LLC, PITTSBURGH WATER, COLUMBIA GAS OF PA INC., SARGENT ELECTRIC, DUQUESNE LIGHT CO., CONSOLIDATED COMMUNICATIONS
M-11	20251781811	FINAL DESIGN	JUNE 27, 2025	ALLEGHENY COUNTY CITY OF PITTSBURGH, WARD 17	PEOPLES GAS COMPANY LLC, ALLEGHENY COUNTY SANITARY AUTHORITY, VERIZON PENNSYLVANIA LLC, PITTSBURGH WATER, COLUMBIA GAS OF PA INC., SARGENT ELECTRIC, DUQUESNE LIGHT CO., CONSOLIDATED COMMUNICATIONS
M-12	20251781811	FINAL DESIGN	JUNE 27, 2025	ALLEGHENY COUNTY CITY OF PITTSBURGH, WARD 17	PEOPLES GAS COMPANY LLC, ALLEGHENY COUNTY SANITARY AUTHORITY, VERIZON PENNSYLVANIA LLC, PITTSBURGH WATER, COLUMBIA GAS OF PA INC., SARGENT ELECTRIC, DUQUESNE LIGHT CO., CONSOLIDATED COMMUNICATIONS
M-13	20251781811	FINAL DESIGN	JUNE 27, 2025	ALLEGHENY COUNTY CITY OF PITTSBURGH, WARD 17	PEOPLES GAS COMPANY LLC, ALLEGHENY COUNTY SANITARY AUTHORITY, VERIZON PENNSYLVANIA LLC, PITTSBURGH WATER, COLUMBIA GAS OF PA INC., SARGENT ELECTRIC, DUQUESNE LIGHT CO., CONSOLIDATED COMMUNICATIONS
M-14	20251781811	FINAL DESIGN	JUNE 27, 2025	ALLEGHENY COUNTY CITY OF PITTSBURGH, WARD 17	PEOPLES GAS COMPANY LLC, ALLEGHENY COUNTY SANITARY AUTHORITY, VERIZON PENNSYLVANIA LLC, PITTSBURGH WATER, COLUMBIA GAS OF PA INC., SARGENT ELECTRIC, DUQUESNE LIGHT CO., CONSOLIDATED COMMUNICATIONS
M-17	20251781811	FINAL DESIGN	JUNE 27, 2025	ALLEGHENY COUNTY CITY OF PITTSBURGH, WARD 17	PEOPLES GAS COMPANY LLC, ALLEGHENY COUNTY SANITARY AUTHORITY, VERIZON PENNSYLVANIA LLC, PITTSBURGH WATER, COLUMBIA GAS OF PA INC., SARGENT ELECTRIC, DUQUESNE LIGHT CO., CONSOLIDATED COMMUNICATIONS
M-20	20251781812	FINAL DESIGN	JUNE 27, 2025	ALLEGHENY COUNTY CITY OF PITTSBURGH, WARD 16	PEOPLES GAS COMPANY LLC, ALLEGHENY COUNTY SANITARY AUTHORITY, VERIZON PENNSYLVANIA LLC, PITTSBURGH WATER, COLUMBIA GAS OF PA INC., SARGENT ELECTRIC, DUQUESNE LIGHT CO., DQE COMMUNICATIONS LLC, VERIZON BUSINESS FORMERLY MCI
M-23	20251781812	FINAL DESIGN	JUNE 27, 2025	ALLEGHENY COUNTY CITY OF PITTSBURGH, WARD 16	PEOPLES GAS COMPANY LLC, ALLEGHENY COUNTY SANITARY AUTHORITY, VERIZON PENNSYLVANIA LLC, PITTSBURGH WATER, COLUMBIA GAS OF PA INC., SARGENT ELECTRIC, DUQUESNE LIGHT CO., DQE COMMUNICATIONS LLC, VERIZON BUSINESS FORMERLY MCI
O-36	20251781807	FINAL DESIGN	JUNE 27, 2025	ALLEGHENY COUNTY CITY OF PITTSBURGH, WARD 21	PEOPLES GAS COMPANY LLC, ALLEGHENY COUNTY SANITARY AUTHORITY, VERIZON PENNSYLVANIA LLC, PITTSBURGH WATER, PITTSBURGH CITY DEPARTMENT OF MOBILITY & INFRASTRUCTURE, SARGENT ELECTRIC, DUQUESNE LIGHT CO.
O-43	20251781807	FINAL DESIGN	JUNE 27, 2025	ALLEGHENY COUNTY CITY OF PITTSBURGH, WARD 21	PEOPLES GAS COMPANY LLC, ALLEGHENY COUNTY SANITARY AUTHORITY, VERIZON PENNSYLVANIA LLC, PITTSBURGH WATER, PITTSBURGH CITY DEPARTMENT OF MOBILITY & INFRASTRUCTURE, SARGENT ELECTRIC, DUQUESNE LIGHT CO.
A-37	20251782108	FINAL DESIGN	JUNE 27, 2025	ALLEGHENY COUNTY CITY OF PITTSBURGH, WARD 10	PEOPLES GAS COMPANY LLC, ALLEGHENY COUNTY SANITARY AUTHORITY, AT&T, VERIZON PENNSYLVANIA LLC, PITTSBURGH WATER, SARGENT ELECTRIC, DUQUESNE LIGHT CO., ENERGY TRANSFER
A-65	20251772044	FINAL DESIGN	JUNE 26, 2025	ALLEGHENY COUNTY CITY OF PITTSBURGH, WARD 24	PEOPLES GAS COMPANY LLC, ALLEGHENY COUNTY SANITARY AUTHORITY, VERIZON PENNSYLVANIA LLC, PITTSBURGH WATER, SARGENT ELECTRIC, WINDSTREAM ENTERPRISE/WHOLESALE, DUQUESNE LIGHT CO., LUMEN FORMERLY LEVEL 3, VERIZONE BUSINESS FORMERLY MCI
M-34	20251771808	FINAL DESIGN	JUNE 26, 2025	ALLEGHENY COUNTY CITY OF PITTSBURGH, WARD 16	ALLEGHENY COUNTY DEPT. OF PUBLIC WORKS, PEOPLES GAS COMPANY LLC, ALLEGHENY COUNTY SANITARY AUTHORITY, VERIZON PENNSYLVANIA LLC, PITTSBURGH WATER, COLUMBIA GAS OF PA INC., PITTSBURGH CITY DEPARTMENT OF MOBILITY & INFRASTRUCTURE, SARGENT ELECTRIC, DUQUESNE LIGHT CO., LUMEN FORMERLY LEVEL 3, PENNSYLVANIA AMERICAN WATER
A-80	20251771504	FINAL DESIGN	JUNE 26, 2025	ALLEGHENY COUNTY OHARA TOWNSHIP	ALLEGHENY COUNTY DEPT. OF PUBLIC WORKS, TOWNSHIP OF OHARA, PEOPLES GAS COMPANY LLC, ALLEGHENY COUNTY SANITARY AUTHORITY, VERIZON PENNSYLVANIA LLC, PITTSBURGH WATER, WINDSTREAM ENTERPRISE/WHOLESALE, DUQUESNE LIGHT CO., PA-TD, FOX CHAPEL AUTHORITY
S-01A	20251771725	FINAL DESIGN	JUNE 26, 2025	ALLEGHENY COUNTY CITY OF PITTSBURGH, WARD 20	ALLEGHENY COUNTY SANITARY AUTHORITY, VERIZON PENNSYLVANIA LLC, PITTSBURGH WATER, COLUMBIA GAS OF PA INC., PITTSBURGH CITY DEPARTMENT OF MOBILITY & INFRASTRUCTURE, SARGENT ELECTRIC, DUQUESNE LIGHT CO., PITTSBURGH REGIONAL TRANSIT

CONCRETE REMOVAL AND SURFACE PREPARATION:

- C1. DO NOT PLACE PNEUMATIC TOOLS IN DIRECT CONTACT WITH EXISTING REINFORCING STEEL.
- C2. INTENTIONALLY ROUGHEN SURFACE ON EXISTING CONCRETE WHERE NEW CONCRETE WILL BE ADDED TO 1/4" AMPLITUDE.
- C3. REMOVE LOOSE CORROSION ON REINFORCING STEEL AND CLEAN STEEL OF ANY LAITENCE WHICH WILL INHIBIT BONDING WITH THE REPAIR MATERIAL.
- C4. WIRE BRUSH CLEAN AND MOISTEN ALL CONSTRUCTION JOINTS IMMEDIATELY PRIOR TO PLACING NEW CONCRETE.

HORIZONTAL CONCRETE PLACEMENT:

- C5. THE EXISTING CONCRETE SURFACE SHALL BE SATURATED-SURFACE DRY PRIOR TO PLACING CONCRETE. DO NOT OVERWET THE SURFACE. ALL WATER MUST BE REMOVED FROM BOTTOM OF THE VOID BEFORE PLACING CONCRETE.
- C6. APPLY A SAND-CEMENT SLURRY OR BONDING AGENT TO THE SURFACE IMMEDIATELY PRIOR TO PLACING REPAIR MATERIAL. DO NOT ALLOW SAND-CEMENT SLURRY TO DRY. IF SLURRY DRIES BEFORE PATCH MATERIAL IS PLACED, CLEAN DRIED SLURRY FROM EXISTING CONCRETE AND RE-APPLY FRESH COAT TO SURFACE.
- C7. CONCRETE REPAIR SHALL BE CONSOLIDATED USING METHODS DESCRIBED IN ACI 304 "GUIDE FOR MEASURING, MIXING, TRANSPORTING AND PLACING CONCRETE."
- C8. MOIST CURE CONCRETE REPAIRS FOR 7 DAYS OR CURE USING CURING COMPOUND AND COVERING WITH PLASTIC SHEETING.

OVERHEAD AND VERTICAL CONCRETE PLACEMENT:

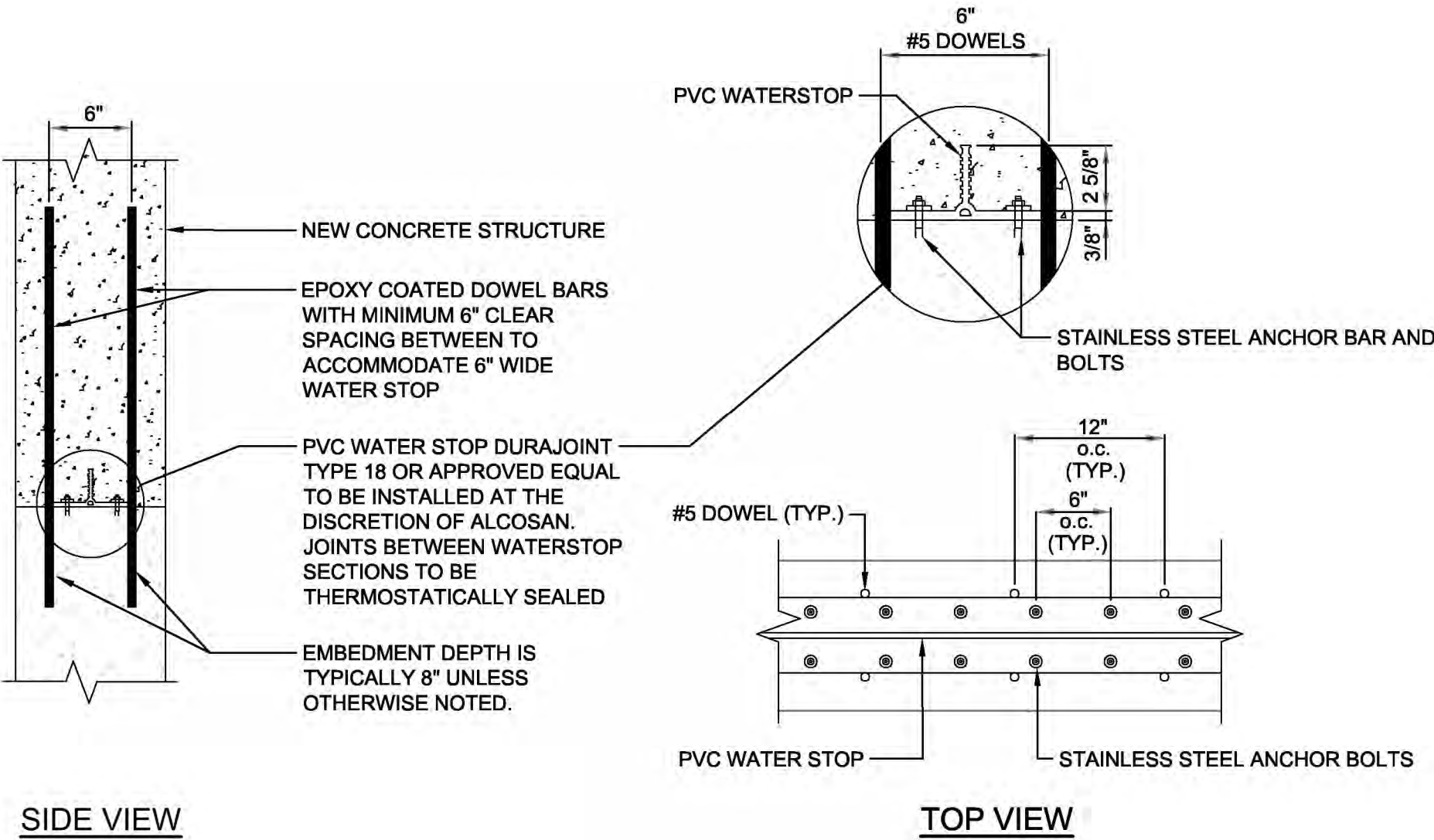
- C9. ACCEPTABLE METHODS FOR VERTICAL AND OVERHEAD CONCRETE PLACEMENT ARE:
- A. FORM AND PUMP TECHNIQUE
- B. FORM AND POUR TECHNIQUE
- C10. CONCRETE REPAIRS SHALL BE CONSOLIDATED USING METHODS DESCRIBED IN ACI 304 "GUIDE FOR MEASURING, MIXING, TRANSPORTING AND PLACING CONCRETE." FORM AND PUMP TECHNIQUE DOES NOT REQUIRE CONSOLIDATION.
- C11. CONCRETE PATCHES SHALL BE MOIST CURED FOR 7 DAYS OR SHALL BE CURED USING CURING COMPOUND AND COVERING WITH PLASTIC SHEETING.

FORM AND PUMP TECHNIQUE:

- C12. DESIGN OF FORMWORK IS THE RESPONSIBILITY OF THE CONTRACTOR. FORMWORK SHALL BE DESIGNED TO SUPPORT THE WET CONCRETE, PRESSURE FROM THE PUMPING OPERATION AND OTHER LOADS DETERMINED BY THE CONTRACTOR.
- C13. FORMS SHOULD FIT TIGHTLY AGAINST EXISTING CONCRETE SURFACES TO MAINTAIN PRESSURE. USE PREFORMED FOAM GASKET FOR UNEVEN SURFACES.
- C14. PRIOR TO CONSTRUCTION OF FORMWORK, TRIM OR REMOVE ANY SURFACES THAT MAY CAUSE AIR TO BECOME ENTRAPPED OR PROVIDE VENT TUBES.
- C15. LARGE AREAS MAY REQUIRE BULKHEADING AND SEPARATE PLACEMENT.
- C16. PUMP CONCRETE FROM ONE EXTREMINTY TO THE NEXT AND THEN FROM LOW POINTS TO HIGH POINTS, FILLING IN A MANNER THAT PREVENTS AIR ENTRAPMENT AND PUMPING UNTIL CAVITY IS FILLED AND PRESSURIZED.
- C17. PUMP LINES SHALL BE MONITORED USING PRESSURE GAUGES ATTACHED TO THE PUMP LINE NEAR THE EXIT PORTS TO PREVENT EXCESSIVE BACK-PRESSURE AND FORM FAILURE.
- C18. APPLY CURING COMPOUND IMMEDIATELY AFTER STRIPPING FORMS.

FORM AND POUR TECHNIQUE:

- C19. DESIGN OF FORMWORK IS THE RESPONSIBILITY OF THE CONTRACTOR. FORMWORK SHALL BE DESIGNED TO SUPPORT THE WET CONCRETE AND OTHER LOADS AS DETERMINED BY THE CONTRACTOR.
- C20. FORMS SHOULD FIT TIGHTLY AGAINST EXISTING CONCRETE SURFACES. USE PREFORMED FOAM GASKETS FOR UNEVEN SURFACES.
- C21. PRIOR TO CONSTRUCTION OF FORMWORK, TRIM OR REMOVE ANY SURFACES THAT MAY CAUSE AIR TO BECOME ENTRAPPED OR PROVIDE VENT TUBES.
- C22. LARGE AREAS MAY REQUIRE BULKHEADING AND SEPARATE PLACEMENT. USE MULTIPLE LIFTS IF NECESSARY TO PREVENT FREE-FALL SEGREGATION AND EXCESSIVE FORMWORK PRESSURES.
- C23. CONSTRUCT CHUTES AND PLACEMENT OPENINGS FOR VERTICAL REPAIRS TO PRODUCE A HYDRAULIC HEAD ABOVE THE PREPARED UPPER EDGES OF THE CONCRETE SURFACE.
- C24. THE EXISTING CONCRETE SURFACE SHALL BE SATURATED-SURFACE DRY PRIOR TO PLACING CONCRETE. DO NOT OVERWET THE SURFACE. ALL WATER MUST BE REMOVED FROM BOTTOM OF THE VOID BEFORE PLACING CONCRETE.
- C25. AFTER REMOVING FORMS, TRIM, CLEAN AND DRY-PACK ANY SPACES NOT FILLED.
- C26. APPLY CURING COMPOUND IMMEDIATELY AFTER STRIPPING FORMS.

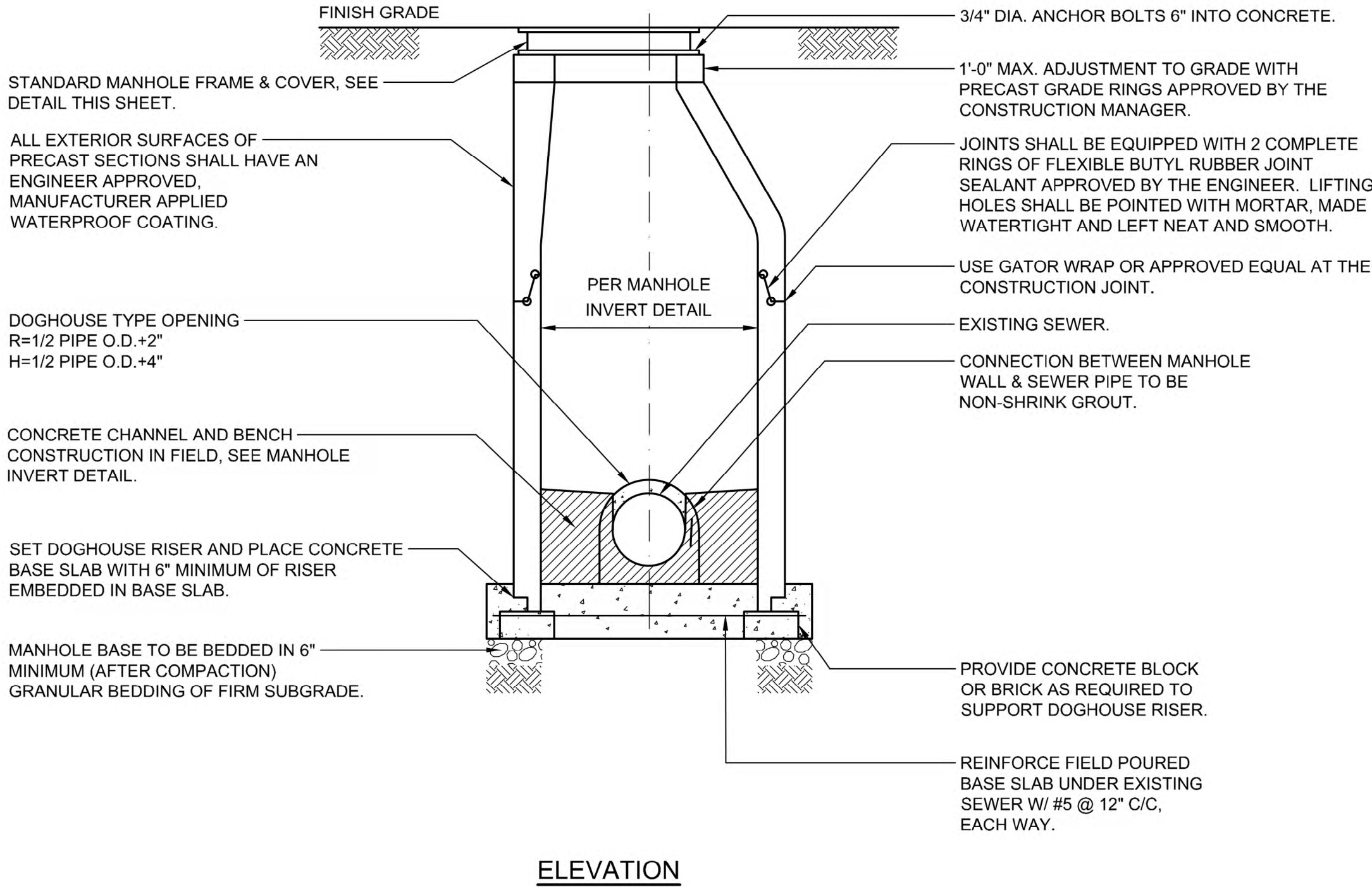
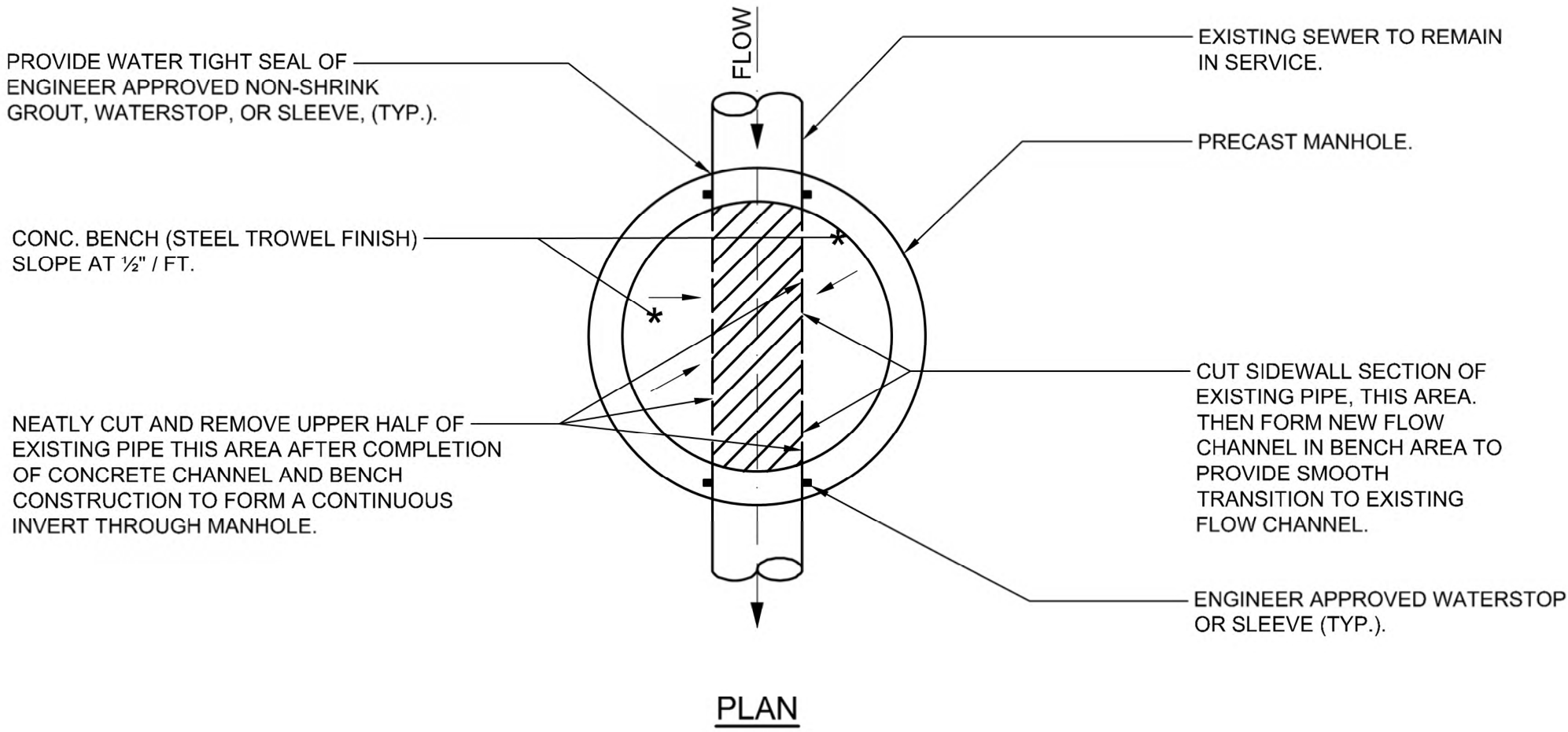


NOTES:

ALL REBAR TO BE OFFSET BY A MINIMUM OF 2" FROM ANY EXTERIOR FACE.

NEW CONCRETE TO EXISTING CONCRETE
CONNECTION DETAIL
SCALE: N.T.S.

Designed by: E.WOLFF Drawn by: S.VOETTNER Checked by: D.TROIANOS	REVISION								ARLETTA SCOTT WILLIAMS EXECUTIVE DIRECTOR, ALCOSAN 3300 PREBLE AVE. PITTSBURGH, PA 15233 (412) 766 - 4810 www.alcosan.org	ALLEGHENY COUNTY SANITARY AUTHORITY REGIONAL CONVEYANCE SYSTEM MISCELLANEOUS FLAP GATE, SLUICE GATE, AND VALVE REPLACEMENTS AT VARIOUS LOCATIONS DET-01 STRUCTURAL NOTES AND DETAILS	Contract: 1818
	REV No.	DATE	DESCRIPTION	APPV							CAD File Name: 1818-DET-01.DWG
	1	9/2/2025	ISSUED FOR BID								Date: 06/11/2025
											Sheet: 5 of 68

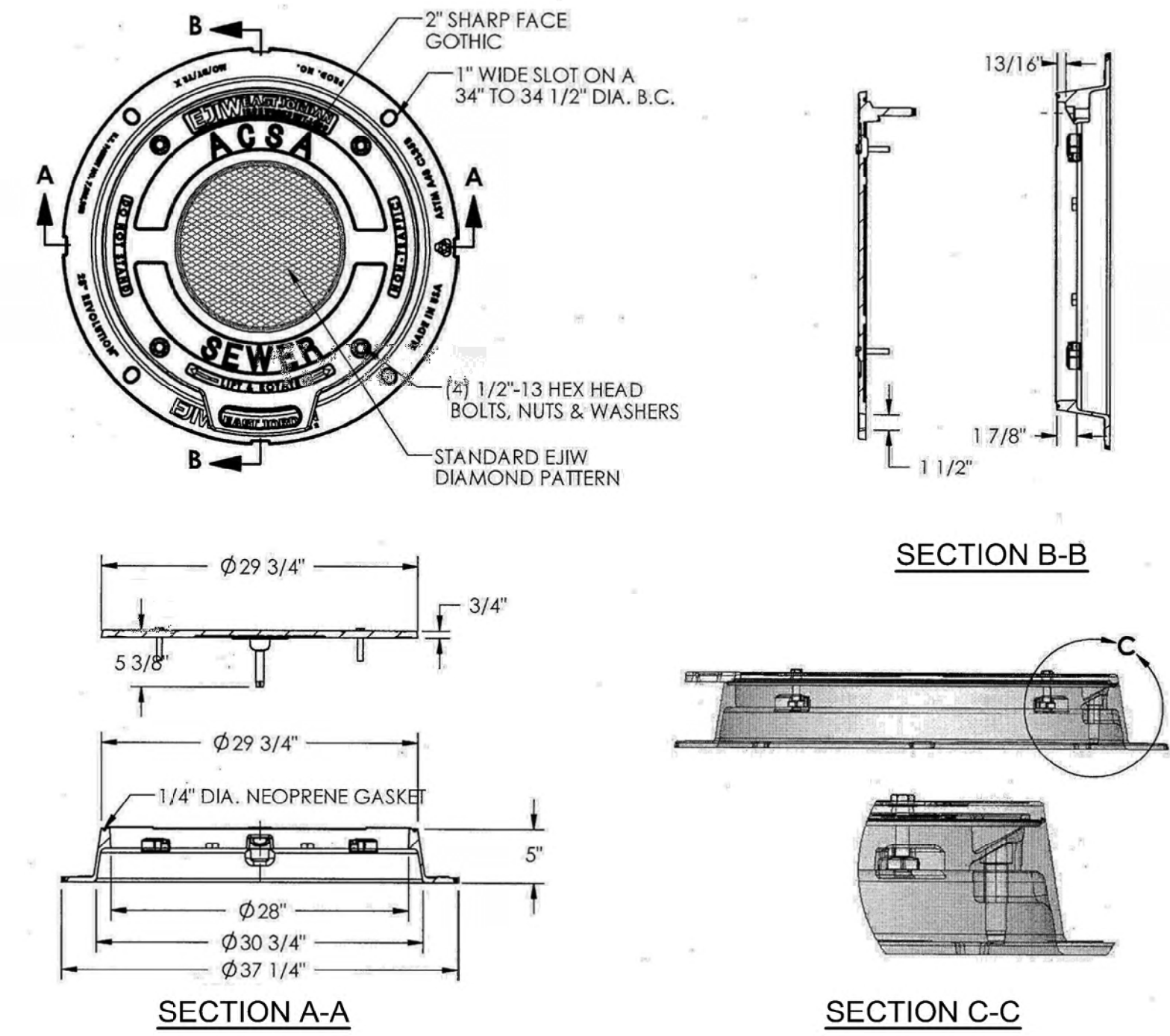


NOTES:

1. PRECAST CONCRETE MANHOLE SECTIONS SHALL CONFORM TO ASTM-C-748, LATEST REVISION.

PRECAST CONCRETE MANHOLE BUILT OVER EXISTING SEWER

N.T.S.



Product Number
00189062R01
Design Features
-Materials
Cover
Gray Iron (CL35)
Frame
Gray Iron (CL35)
-Design Load
Non-Traffic
-Open Area
n/a
-Coating
Undipped
~√ Designates Machined Surface

Certification
-ASTM A48
-Country of Origin: USA

Major Components
RC00189062
RF280503705

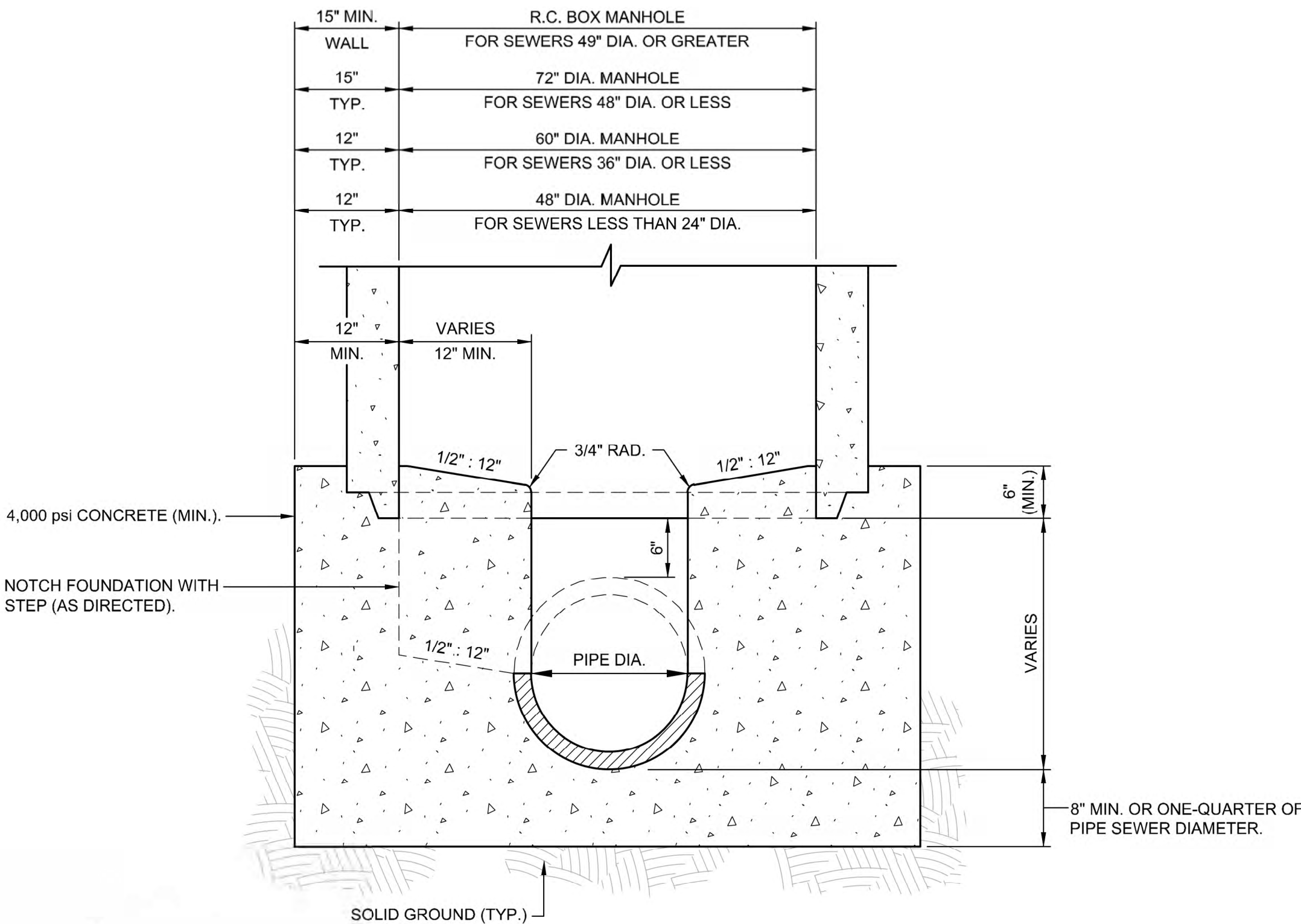
Drawing Revision
5/26/2011 Designer: SMM
3/2/2012 Revised By: SDC

Disclaimer
Weights (balg), dimensions (inch/mm) and drawings provided for your guidance. We reserve the right to modify specifications without prior notice.
CONFIDENTIAL: This drawing is the property of EJ Group, Inc. and embodies confidential information, registered marks, patents, trade secret information, and/or know-how that is the property of EJ Group, Inc. Copyright © 2011 EJ Group, Inc. All rights reserved.

Contact
800.626.4653
ejco.com

MANHOLE FRAME AND COVER

N.T.S.



NOTES:

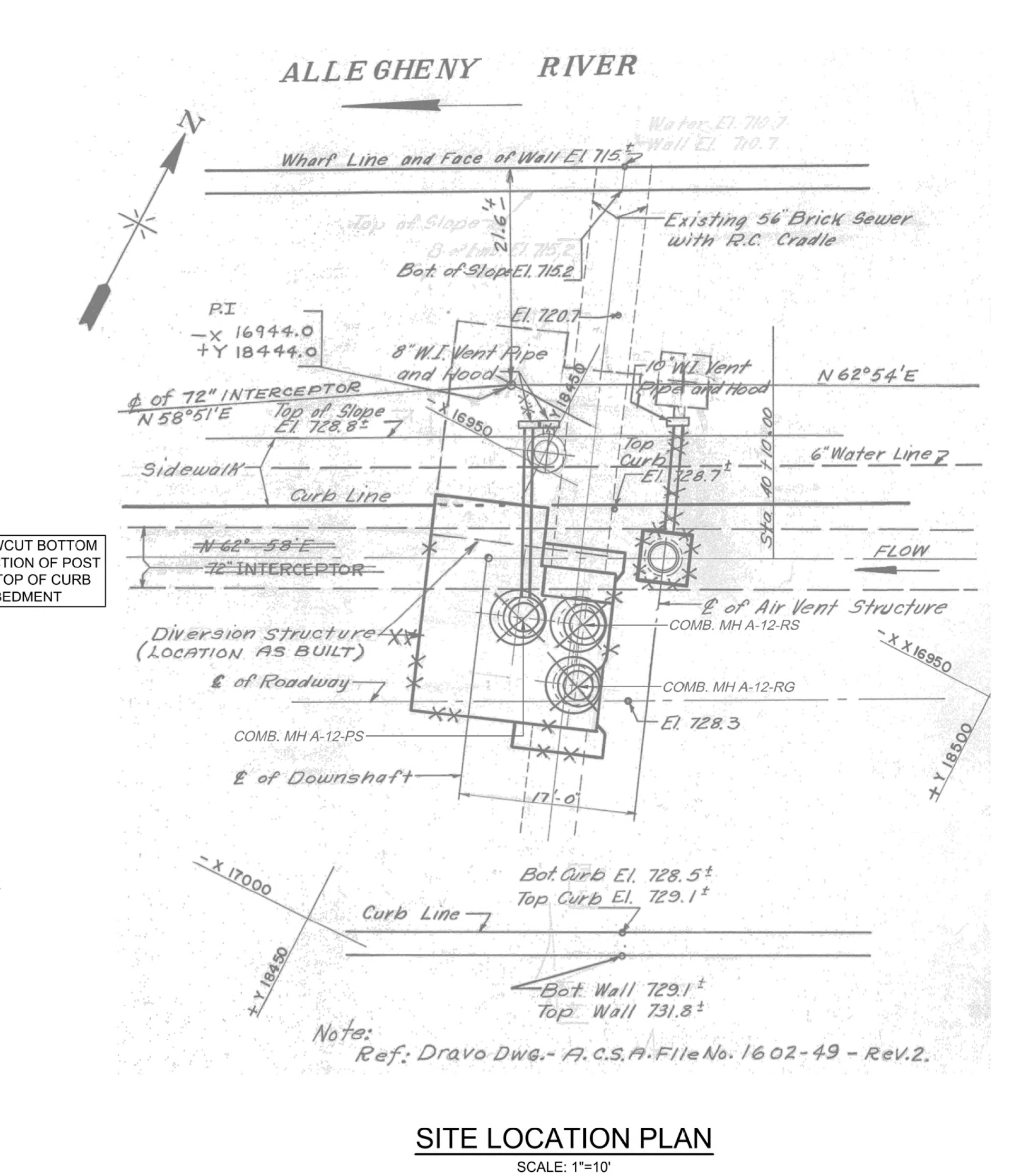
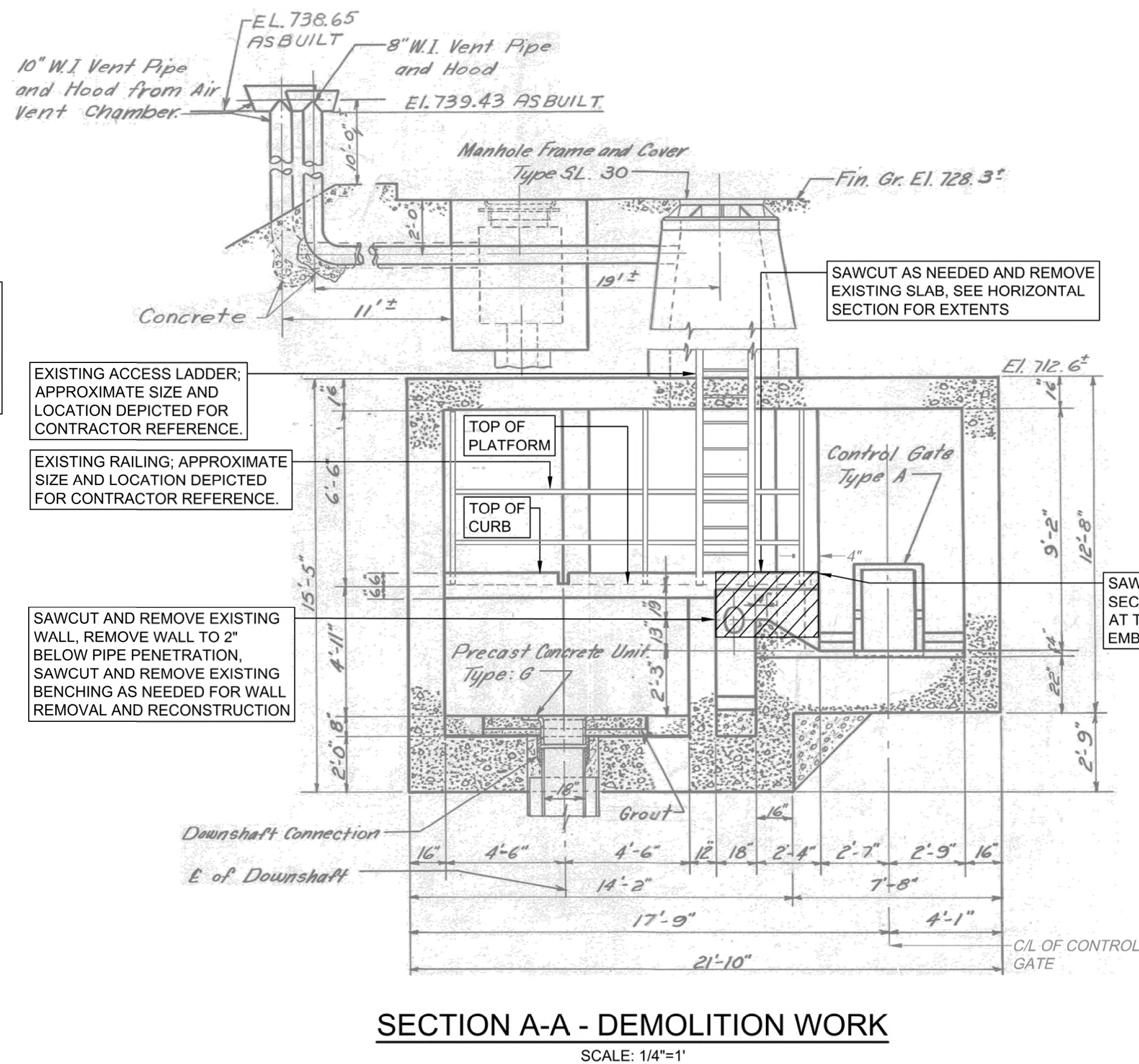
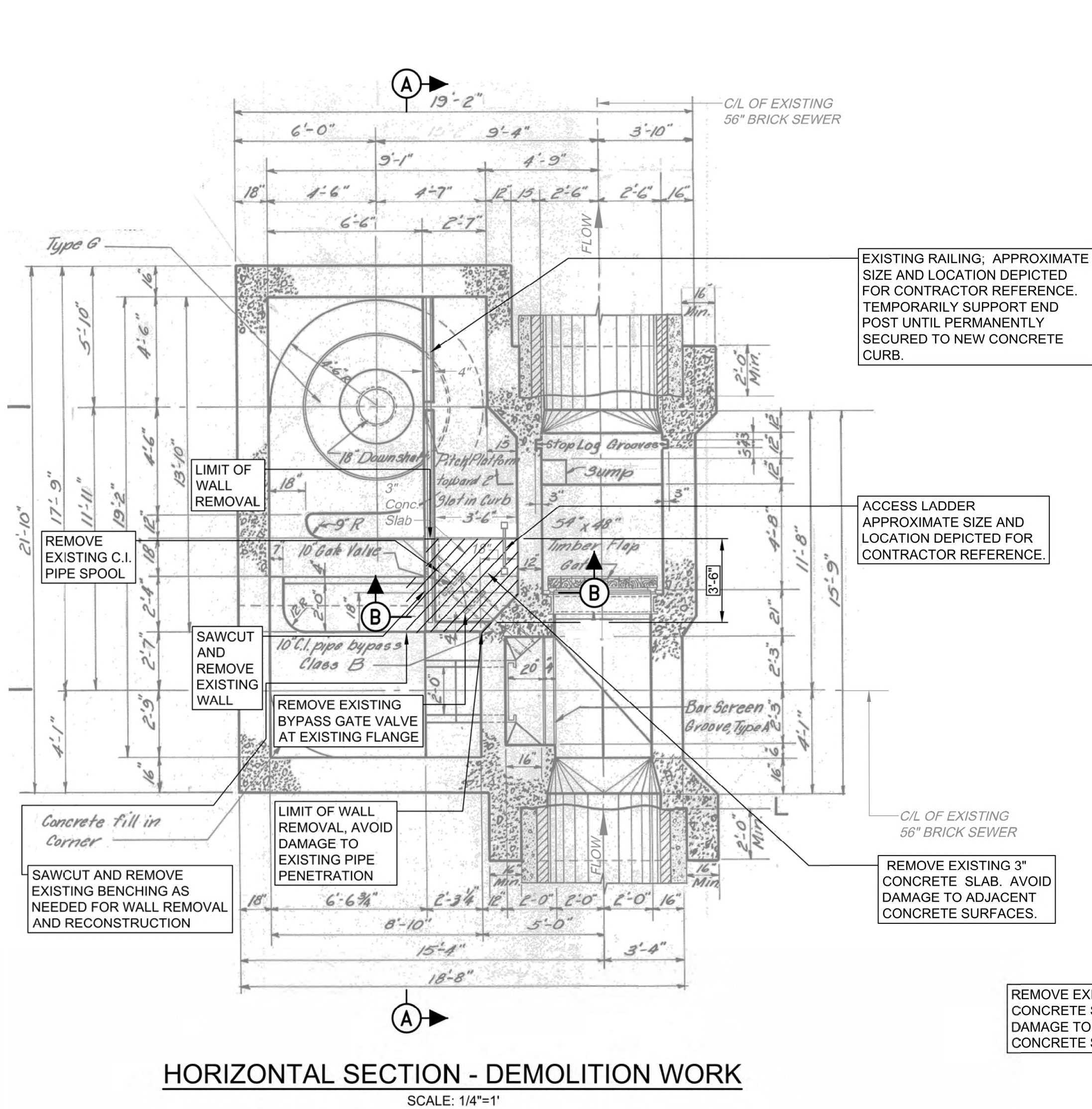
1. REINFORCED CEMENT CONCRETE BOX MANHOLE MAY BE ORDERED FOR MULTIPLE CONNECTIONS OR SPECIAL CONDITIONS (AS DIRECTED).

2. ALL PLASTIC PIPE SEWERS OR CONNECTIONS MUST HAVE APPROVED WATERSTOPS OR FLEXIBLE BOOT-TYPE CONNECTIONS (AS DIRECTED).

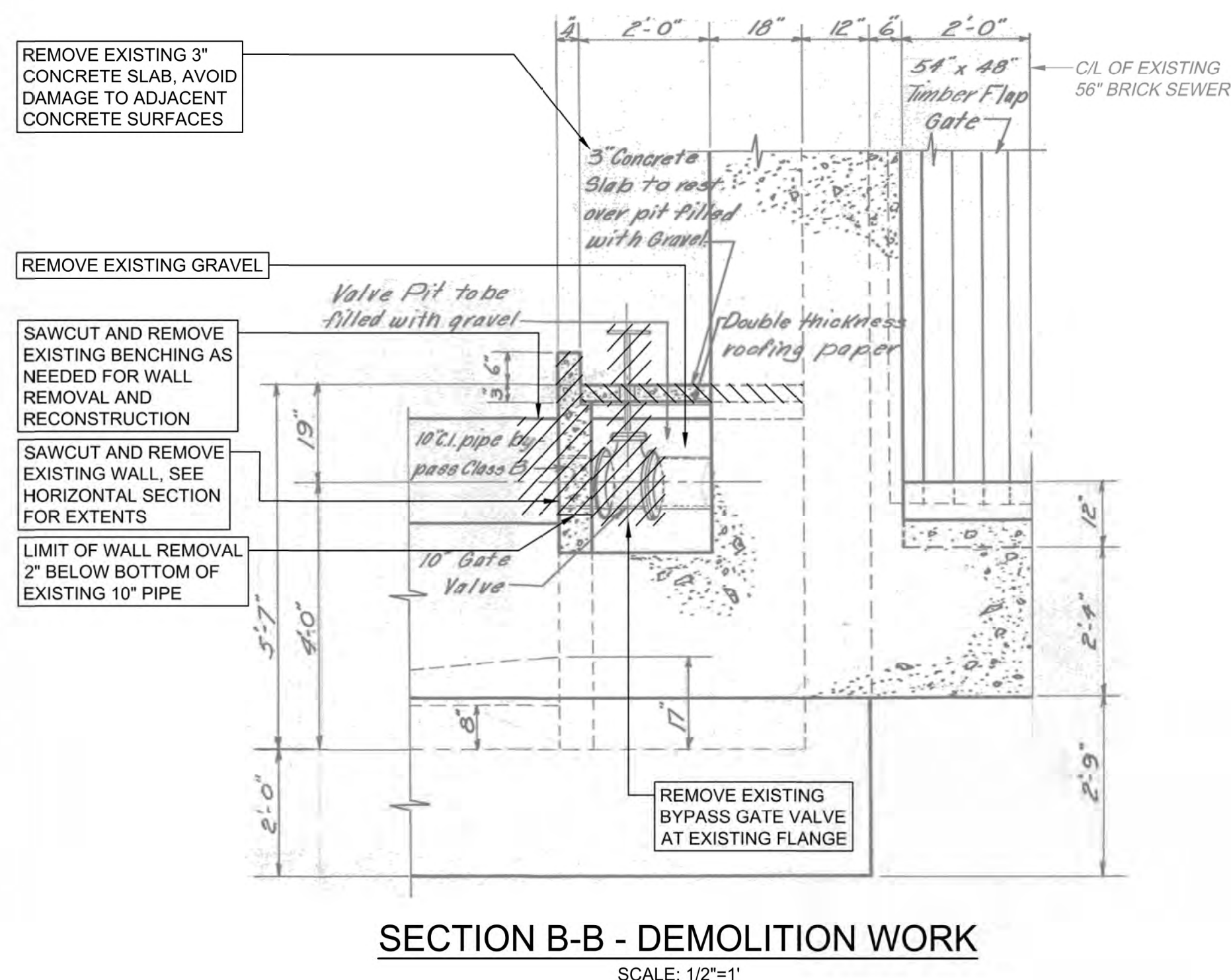
MANHOLE INVERT DETAIL

N.T.S.

Designed by: E.WOLFF	REVISION							ARLETTA SCOTT WILLIAMS EXECUTIVE DIRECTOR, ALCOSAN 3300 PREBLE AVE. PITTSBURGH, PA 15233 (412) 766 - 4810 www.alcosan.org	ALLEGHENY COUNTY SANITARY AUTHORITY REGIONAL CONVEYANCE SYSTEM MISCELLANEOUS FLAP GATE, SLUICE GATE, AND VALVE REPLACEMENTS AT VARIOUS LOCATIONS		Contract: 1818
Drawn by: S.VOETTINER	REV No.	DATE	DESCRIPTION	APPV							CAD File Name: 1818-DET-02.DWG
Checked by: D.TROIANOS											Date: 06/11/2025
											Sheet: 6 of 68



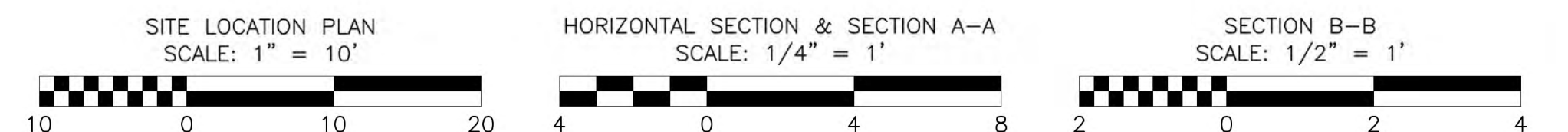
ALCOSAN INSPECTION PHOTO



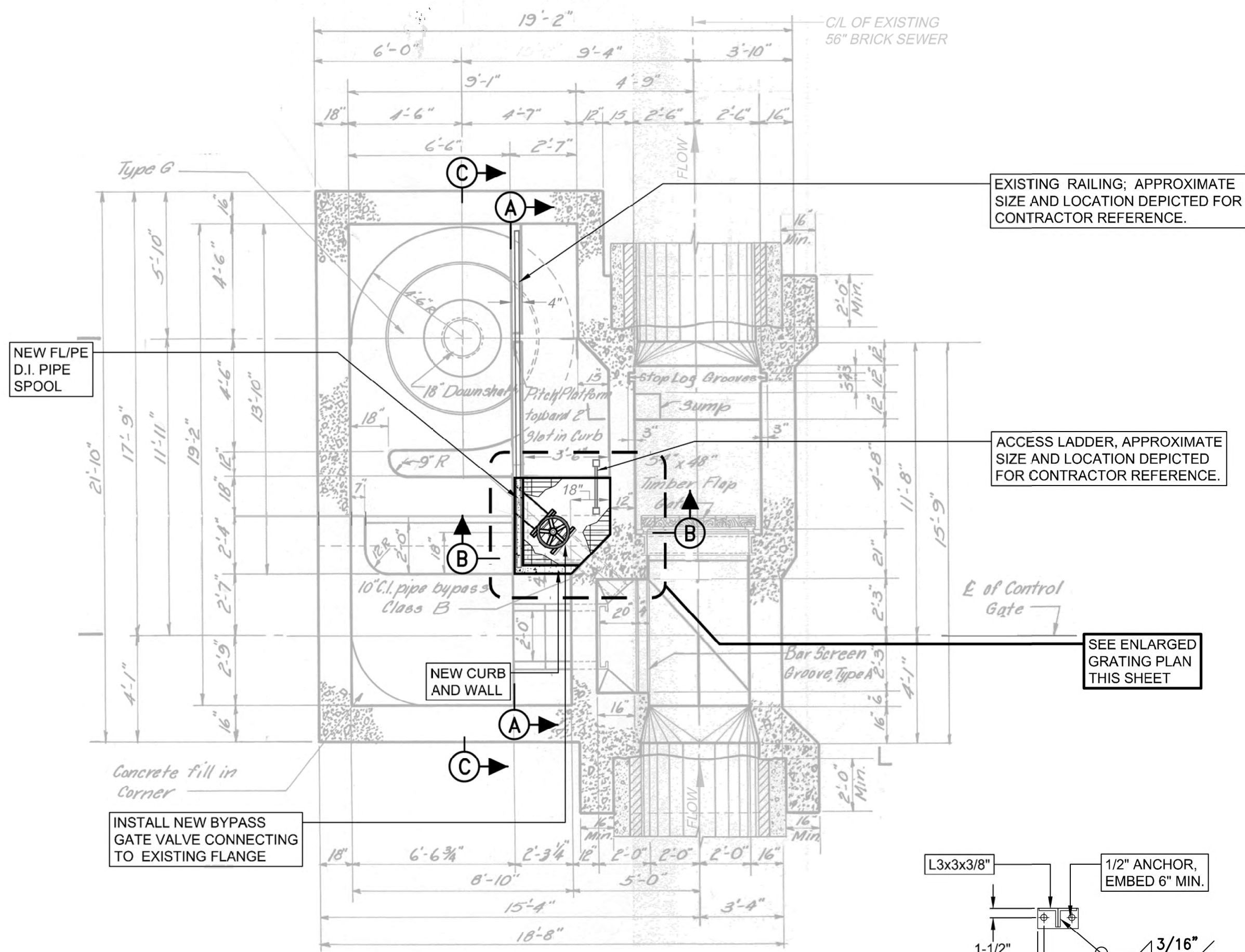
LEGEND:

INDICATES DEMOLITION

- GENERAL NOTES:**
- ANY MARKUPS FROM THE ORIGINAL REFERENCE DRAWING, CONTRACT 49, SHEET 24, DATED JANUARY 20, 1954 (REVISED JUNE 16, 1978), WERE CARRIED OVER AND SHOWN IN GRAY AND ALL DEMOLITION AND NEW WORK FOR THIS CONTRACT ARE SHOWN IN BLACK PER THE LEGEND.
 - REFERENCE PROJECT NOTES AND SCOPE OF SUMMARY TABLES SHEET FOR MORE DETAILS ON BYPASS VALVE REPLACEMENT REQUIREMENTS.



Designed by:	REVISION				 gai consultants			ARLETTA SCOTT WILLIAMS EXECUTIVE DIRECTOR, ALCOSAN 3300 PREBLE AVE. PITTSBURGH, PA 15233 (412) 766 - 4810 www.alcosan.org	ALLEGHENY COUNTY SANITARY AUTHORITY REGIONAL CONVEYANCE SYSTEM MISCELLANEOUS FLAP GATE, SLUICE GATE, AND VALVE REPLACEMENTS AT VARIOUS LOCATIONS A-12 BYPASS VALVE REPLACEMENT DEMOLITION WORK PLANS AND SECTIONS	Contract:	
E.WOLFF	REV No.	DATE	DESCRIPTION							APPV	1818
Drawn by:		9/2/2025	ISSUED FOR BID								CAD File Name:
S.VOETTINER / C. SZCZYPINSKI											1818-A-12-PLSC-01.DWG
Checked by:											Date:
D.TROIANOS											06/11/2025
						Sheet:					
						7 of 68					

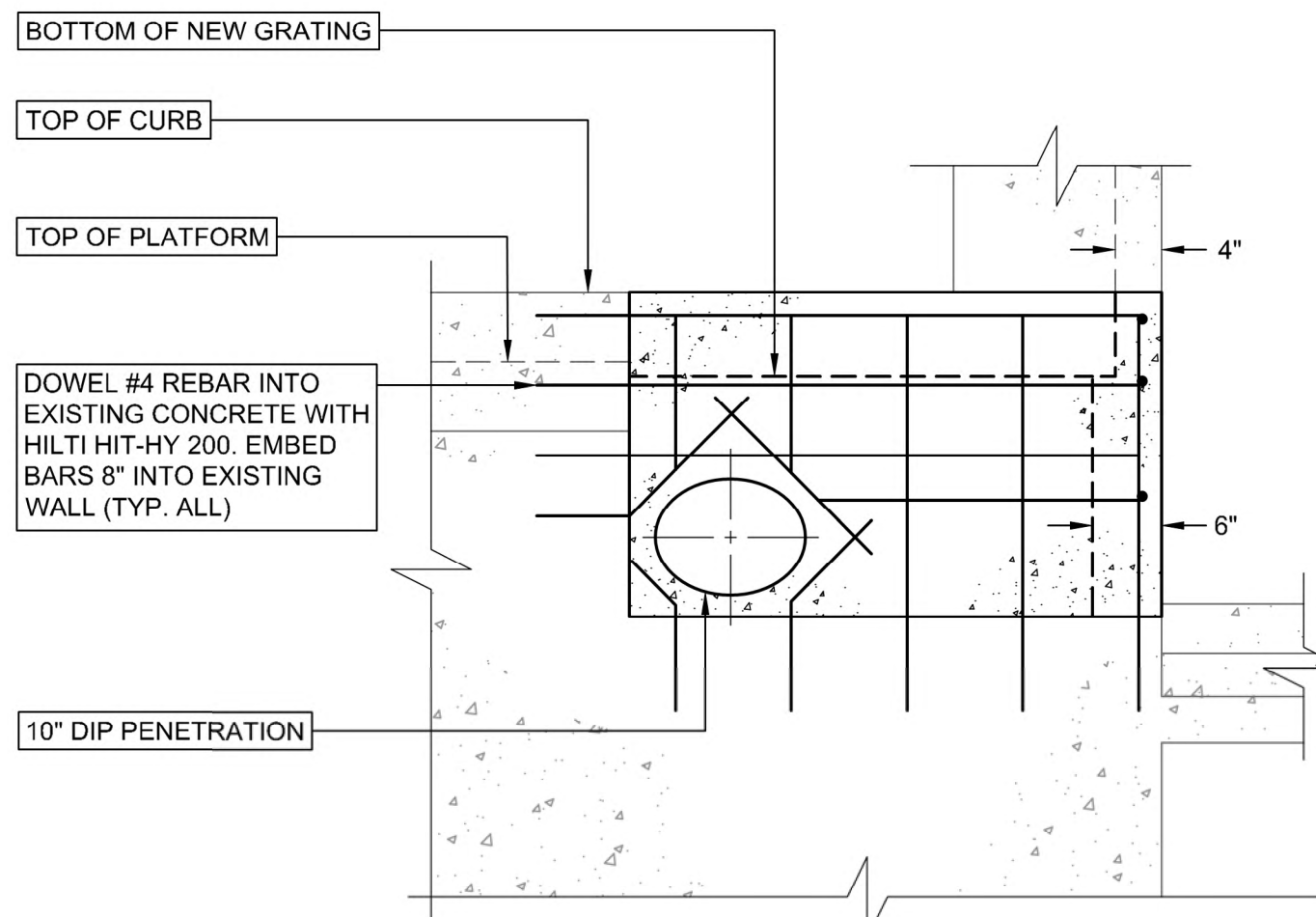


HORIZONTAL SECTION - NEW WORK

SCALE: 1/4"=1'

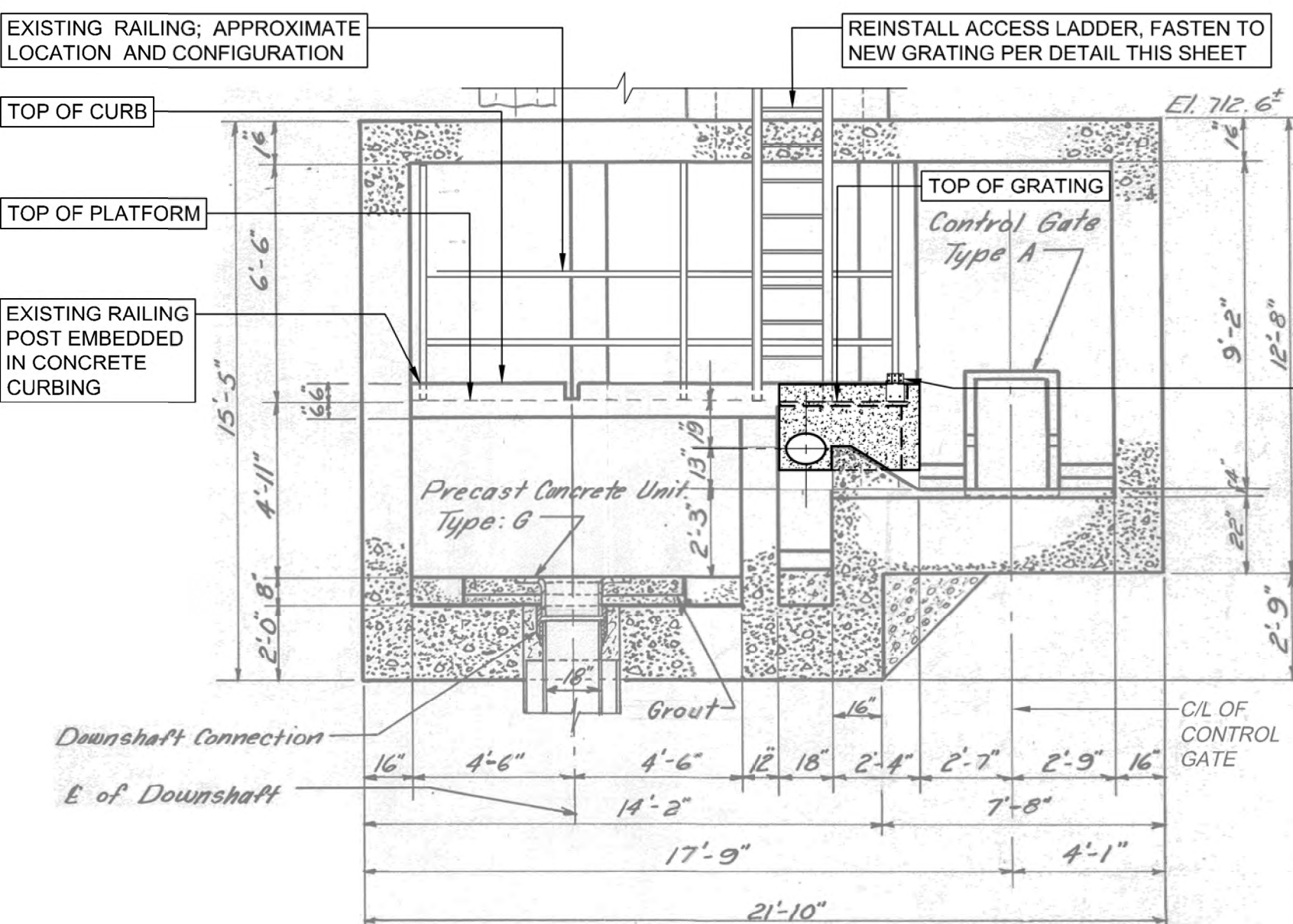
ANCHOR PLATE DETAIL

SCALE: 3/4"=1'



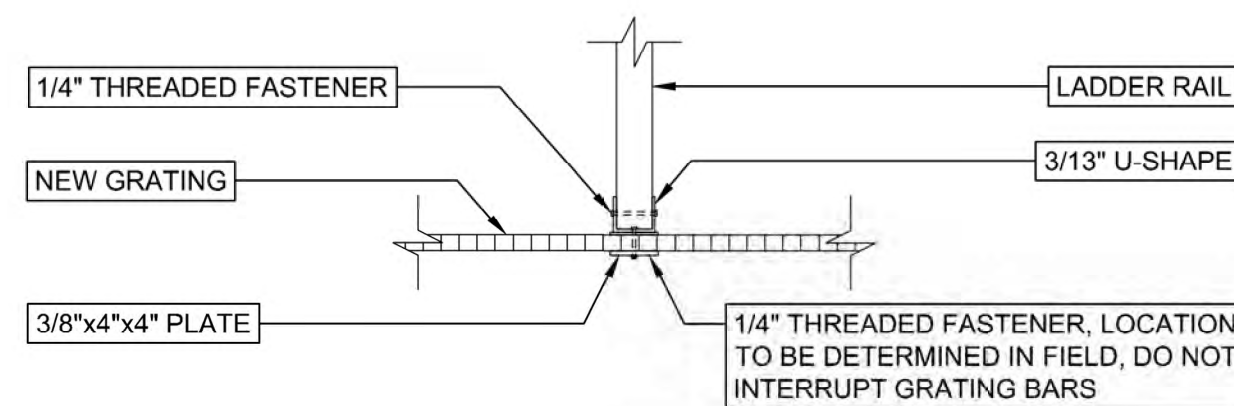
SECTION A-A - NEW WORK

SCALE 3/4"=1'



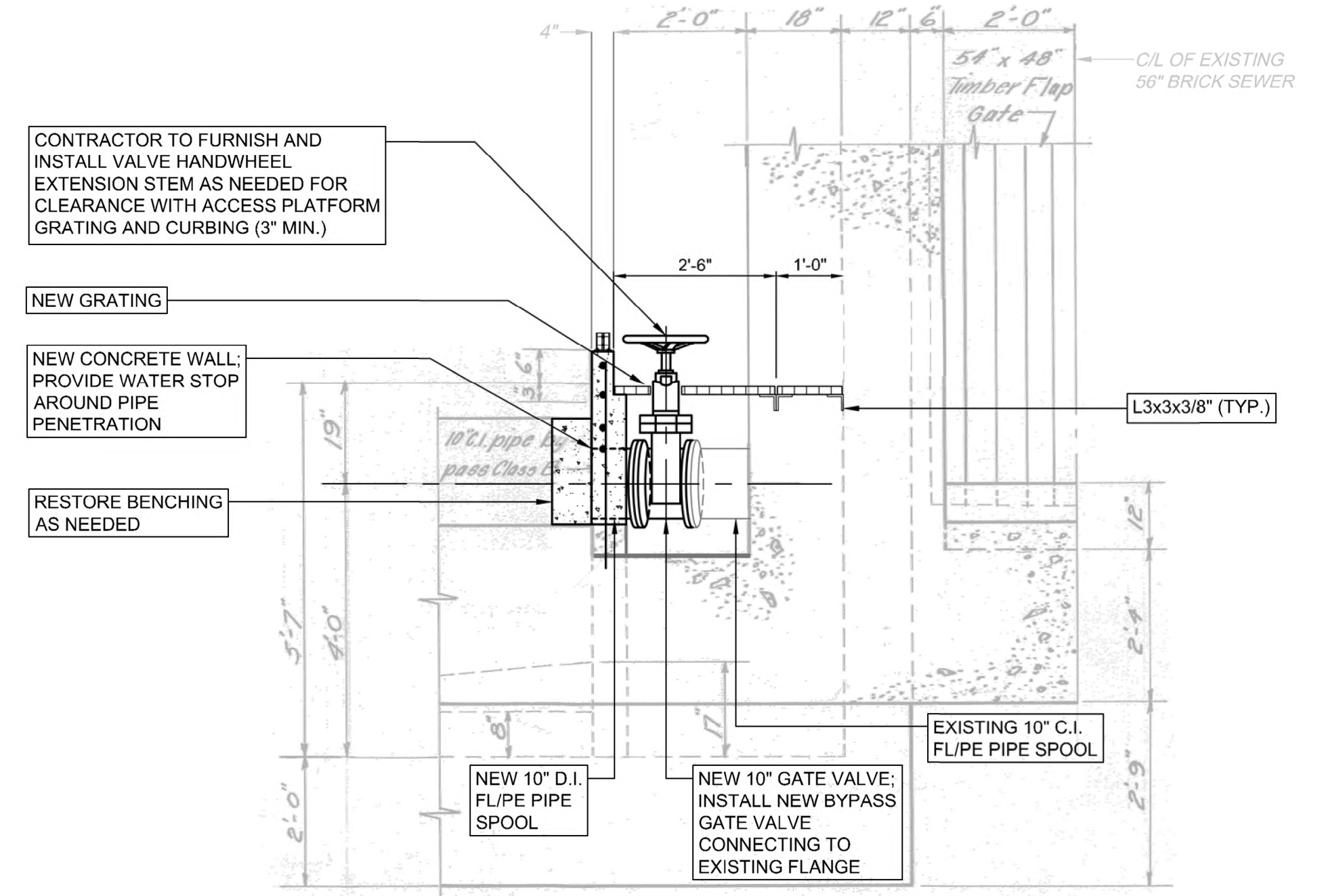
SECTION C-C - NEW WORK

SCALE: 1/4"=1'



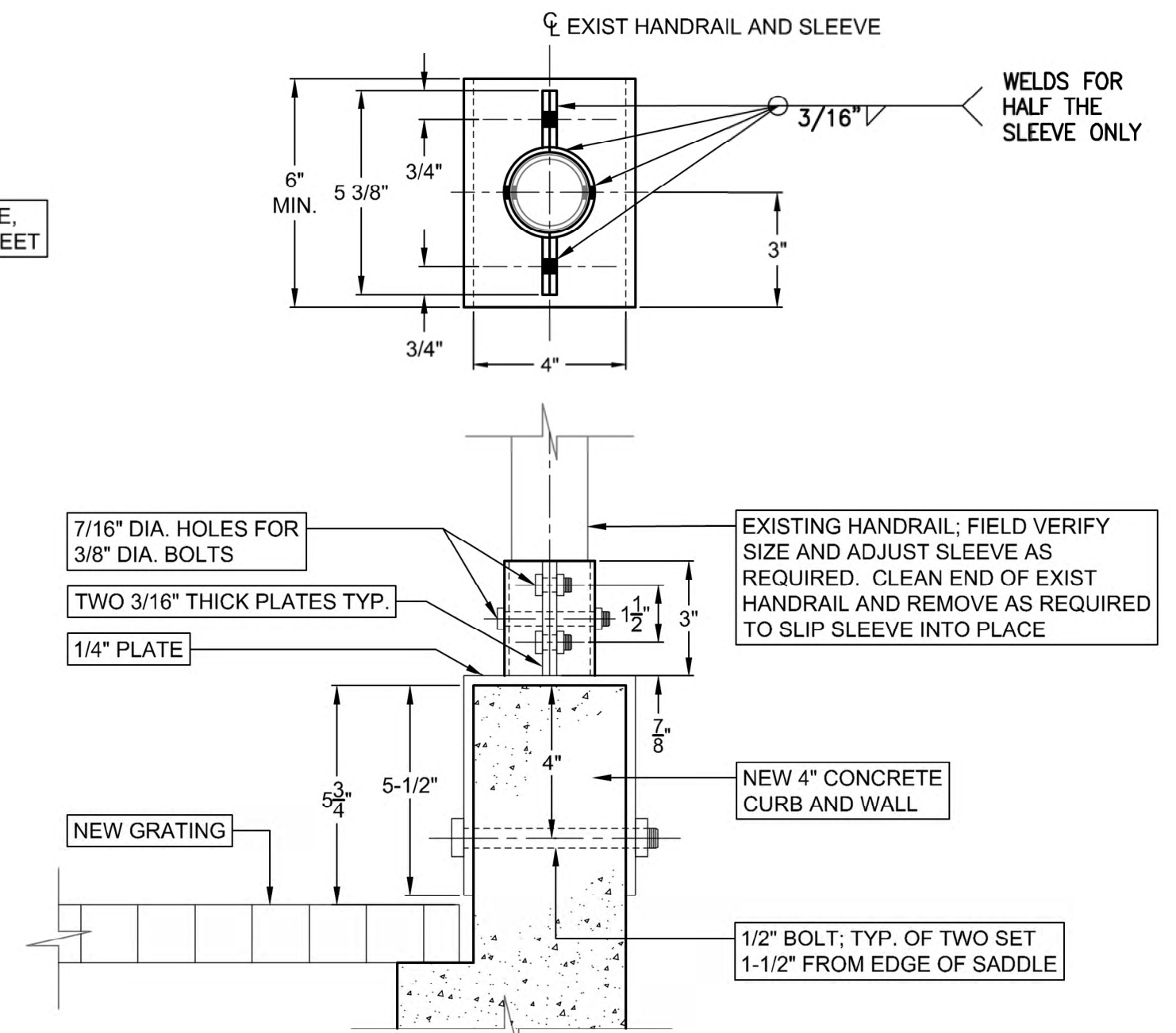
LADDER TO GRATING CONNECTION DETAIL

SCALE: N.T.S.



SECTION B-B - NEW WORK

SCALE: 1/2"=1'



HANDRAIL BASE DETAIL

SCALE: N.T.S.

GENERAL NOTES:

- ANY MARKUPS FROM THE ORIGINAL REFERENCE DRAWING, CONTRACT 49, SHEET 24, DATED JANUARY 20, 1954 (REVISED JUNE 16, 1978), WERE CARRIED OVER AND SHOWN IN GRAY AND ALL DEMOLITION AND NEW WORK FOR THIS CONTRACT ARE SHOWN IN BLACK PER THE LEGEND.
- REFERENCE PROJECT NOTES AND SCOPE OF WORK SUMMARY TABLES SHEET FOR MORE DETAILS ON BYPASS VALVE REPLACEMENT REQUIREMENTS.
- ALL STEEL MEMBERS, HARDWARE, AND GRATING TO BE HOT-DIP GALVANIZED IN ACCORDANCE WITH ASTM A123 AND A153.

HORIZONTAL SECTION SCALE: 1/4" = 1'

SECTION B-B SCALE: 1/2" = 1'

SECTION A-A SCALE: 3/4" = 1'



TYP. ALL JOINTS 3/16"

L3x3x3/8; ANCHOR TO WALL WITH 3/4" THREADED BARS @ 6" SPACING WITH HILTI HIT-HY 200, EMBEDDED 6".

DOWEL #4 REBAR INTO EXISTING WALL @ 10" SPACING WITH HILTI HIT-HY 200, EMBED BARS 8" INTO EXISTING WALL. TOTAL BAR LENGTH = 4'-4"

PROVIDE BANDED OPENING AROUND GATE VALVE. PROVIDE 1/2" CLEARANCE WHERE BANDING IS TANGENT TO GATE VALVE STEM OR BONNET

1 1/2"x3/16" 19-W-4 HOT-DIP GALVANIZED GRATING ANCHORED WITH GRATING CLIPS. PROVIDE TWO PANELS CENTERED ON GATE VALVE AS SHOWN

DOWEL #4 VERTICAL REBAR INTO EXISTING WALL @ 10" SPACING WITH HILTI HIT-HY 200, EMBED BARS 8" INTO EXISTING WALL. TOTAL BAR LENGTH = 3'-3"

ANCHOR PLATE WELDED TO L-CHANNELS, ANCHOR TO WALL WITH 3/4" EPOXY EMBEDDED THREADED BAR, EMBEDDED 6" WITH HILTI HIT-HY 200 OR APPROVED EQUAL, FIELD VERIFY & FIT AS REQUIRED. SEE DETAIL THIS SHEET

ACCESS LADDER, APPROXIMATE SIZE AND LOCATION DEPICTED FOR CONTRACTOR REFERENCE.

(2) L3x3x3/8 ANGLES BACK TO BACK

LADDER TO GRATING CONNECTION, SEE DETAIL THIS SHEET

1 1/2"x3/16" 19-W-4 FIXED HOT-DIP GALVANIZED GRATING PANEL ANCHORED WITH GRATING CLIPS.

L3x3x3/8; ANCHOR TO WALL WITH 3/4" THREADED BARS @ 6" SPACING WITH HILTI HIT-HY 200, EMBEDDED 6".

ANCHOR PLATE WELDED TO L-CHANNELS, ANCHOR TO WALL WITH 3/4" EPOXY EMBEDDED THREADED BAR, EMBEDDED 6" WITH HILTI HIT-HY 200 OR APPROVED EQUAL, FIELD VERIFY & FIT AS REQUIRED. SEE DETAIL THIS SHEET

DOWEL #4 REBAR INTO EXISTING WALL @ 10" SPACING WITH HILTI HIT-HY 200, EMBED BARS 8" INTO EXISTING WALL. TOTAL BAR LENGTH = 3'-0"

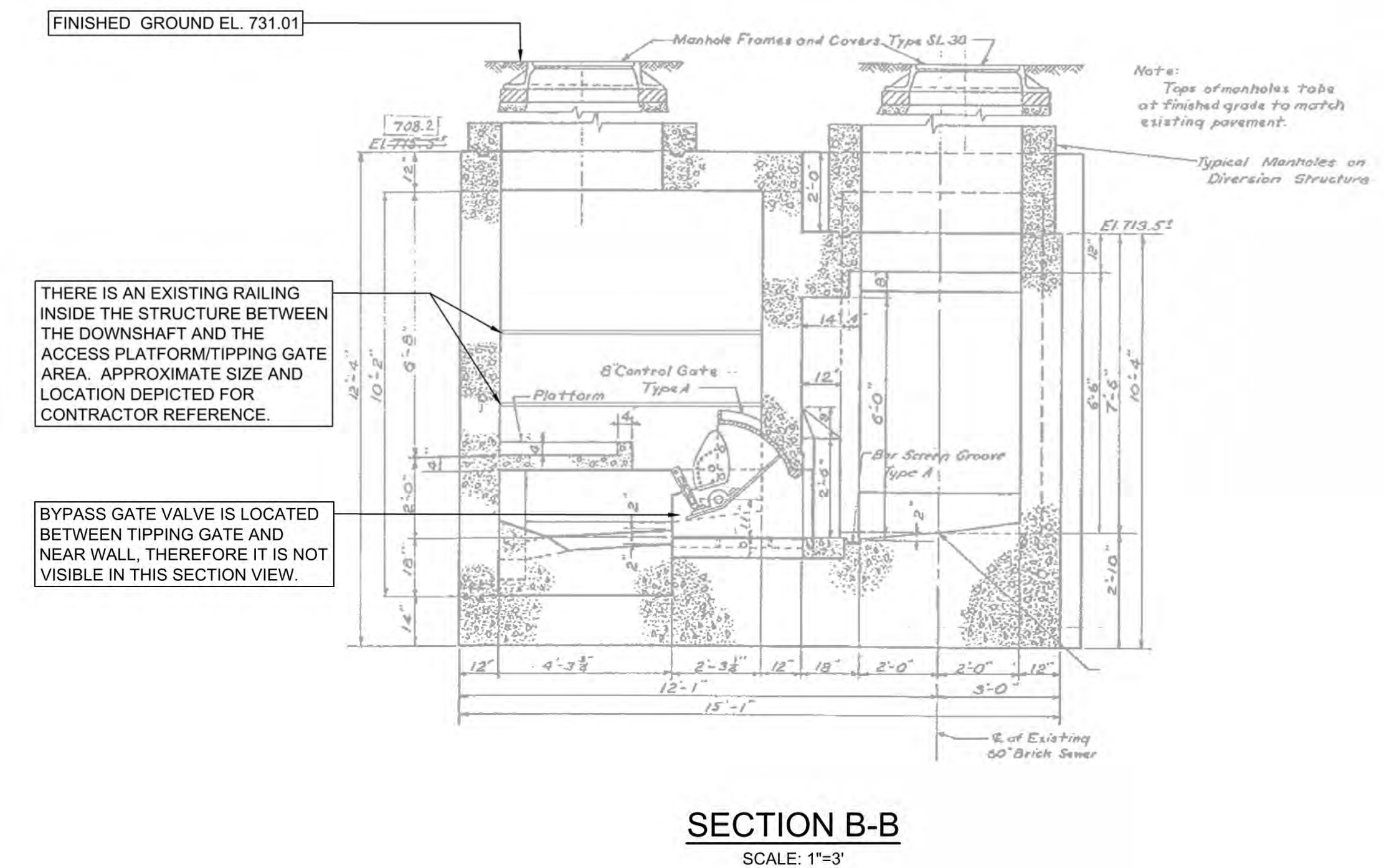
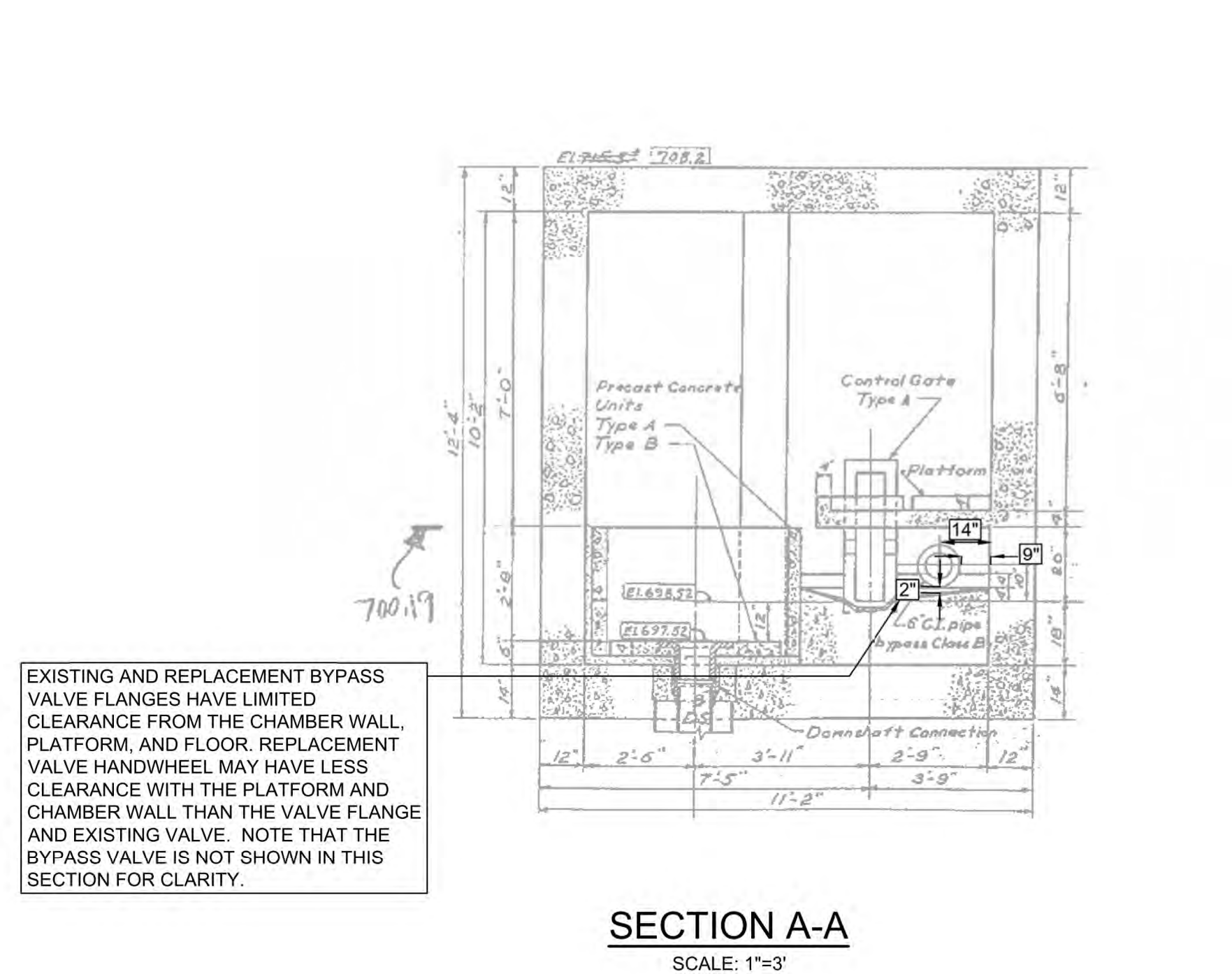
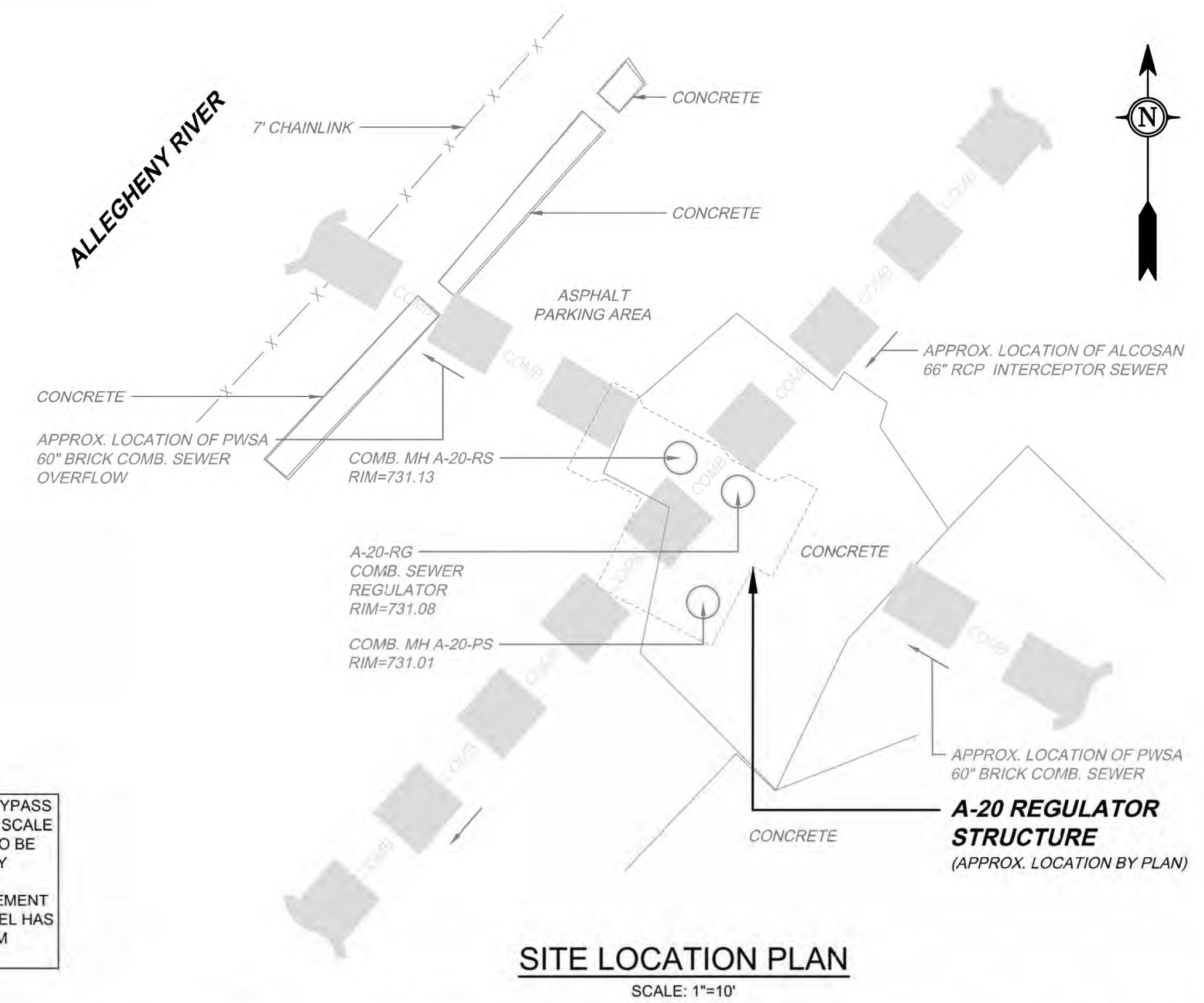
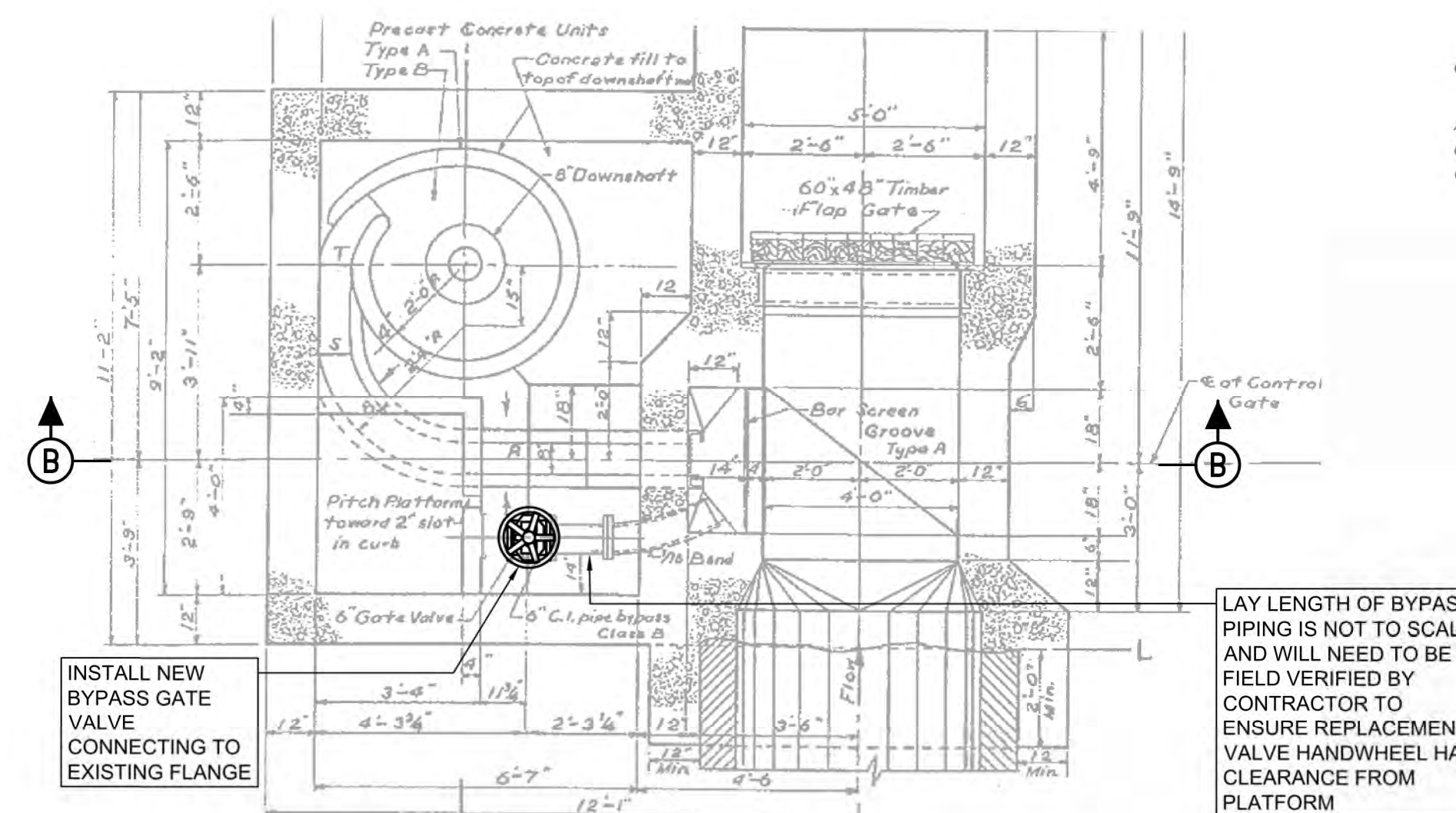
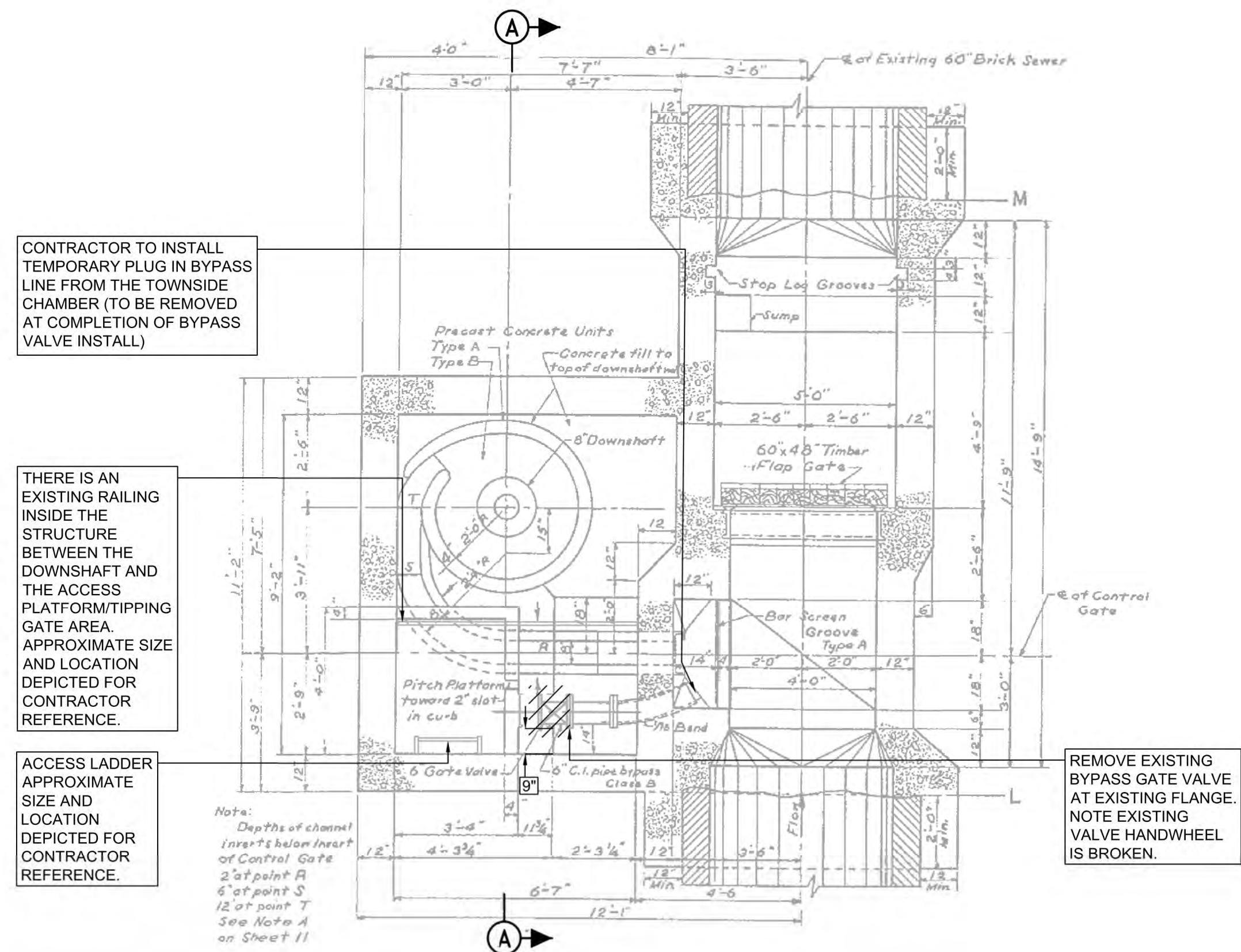
NOTES:

VALVE WHEEL AND BODY AND PIPING NOT SHOWN FOR CLARITY. INDICATES GRATING SPAN DIRECTION.

ENLARGED GRATING PLAN

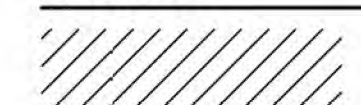
SCALE: 3/4"=1'

Designed by:	REVISION								ARLETTA SCOTT WILLIAMS EXECUTIVE DIRECTOR, ALCOSAN	3300 PREBLE AVE. PITTSBURGH, PA 15233 (412) 766 - 4810 www.alcosan.org	ALLEGHENY COUNTY SANITARY AUTHORITY REGIONAL CONVEYANCE SYSTEM MISCELLANEOUS FLAP GATE, SLUICE GATE, AND VALVE REPLACEMENTS AT VARIOUS LOCATIONS		Contract:	1818
J.STATES	REV No.	DATE	DESCRIPTION	APPV							CAD File Name:	1818-A-12-PLSC-02.DWG		
Drawn by:		9/2/2025	ISSUED FOR BID								Date:	06/11/2025		
S.VOETTNER / C. SZCZYPINSKI											A-12 BYPASS VALVE REPLACEMENT NEW WORK PLANS AND SECTIONS	Sheet: 8 of 68		
Checked by:														
D.TROIANOS														



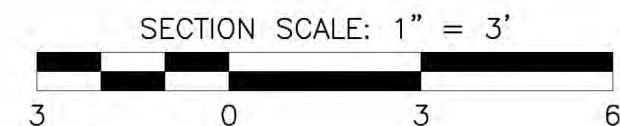
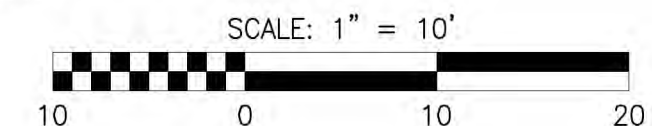
FIELD INSPECTION PHOTOS

LEGEND:

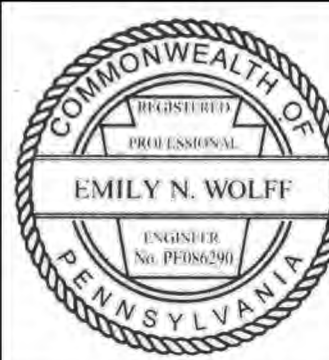


GENERAL NOTES:

1. ANY MARKUPS FROM THE ORIGINAL REFERENCE DRAWING, CONTRACT 49, SHEET 43, DATED JANUARY 20, 1954 (REVISED 1978), WERE CARRIED OVER AND SHOWN IN GRAY AND ALL DEMOLITION AND NEW WORK FOR THIS CONTRACT ARE SHOWN IN BLACK PER THE LEGEND.
2. NOTED SCALE OF PLANS, SECTIONS, AND DETAILS IS APPROXIMATE. CONTRACTOR TO FIELD CONFIRM ALL WORKING DIMENSIONS AND COORDINATE ANY DISCREPANCIES WITH CONSTRUCTION MANAGER BEFORE PROCEEDING WITH ANY CONTRACT WORK.
3. REFERENCE PROJECT NOTES AND SCOPE OF SUMMARY TABLES SHEET FOR MORE DETAILS ON BYPASS VALVE REPLACEMENT REQUIREMENTS.



Designed by: <div style="text-align: right;">E.WOLFF</div> Drawn by: <div style="text-align: right;">S.VOETTINER</div> Checked by: <div style="text-align: right;">D.TROIANOS</div>	<div style="text-align: center;">REVISION</div>			
	REV No.	DATE	DESCRIPTION	APPV
	0	9/2/2025	ISSUED FOR BID	



ARLETTA SCOTT WILLIAMS
EXECUTIVE DIRECTOR, ALCOSAN

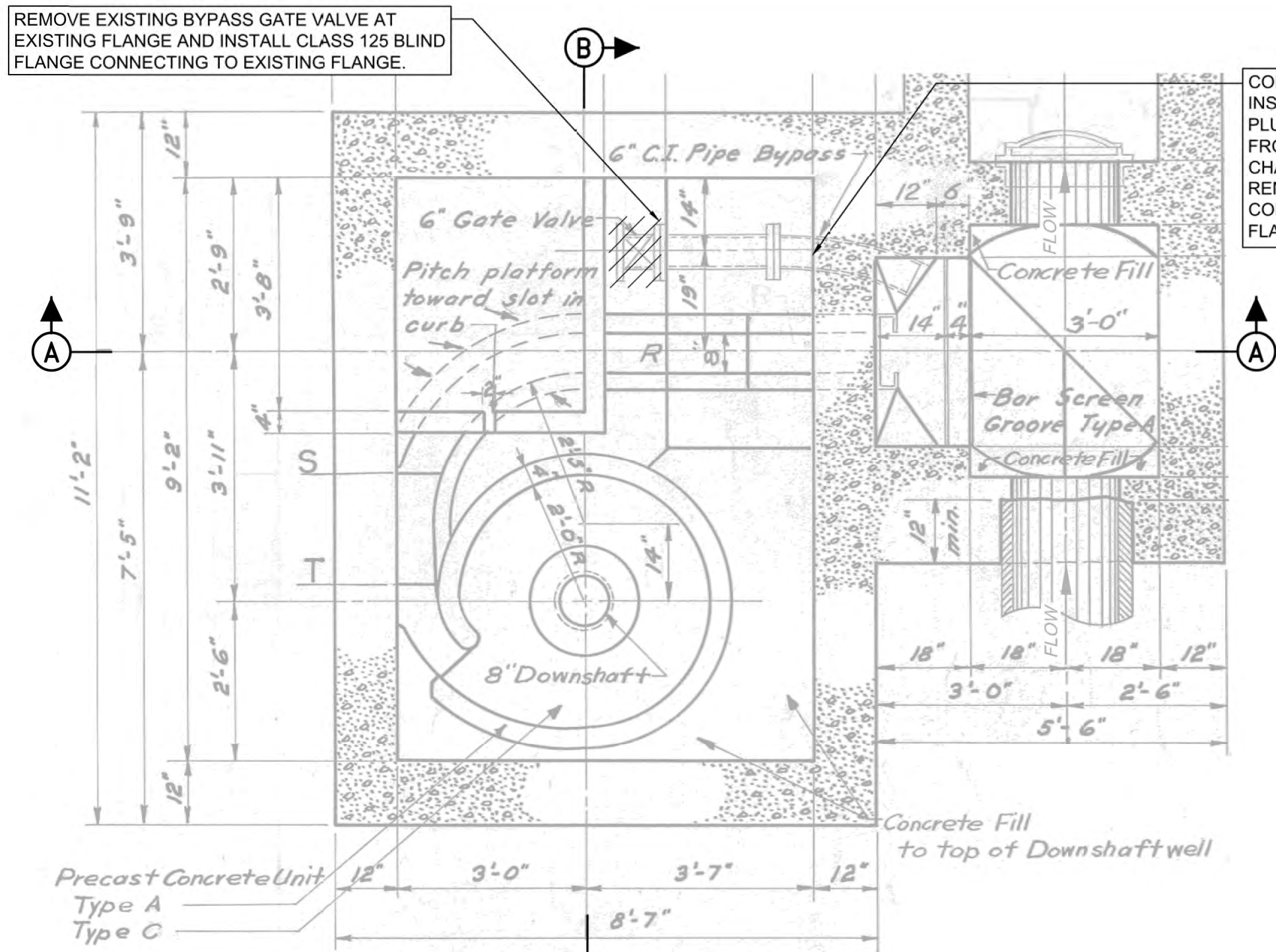
3300 PREBLE AVE.
PITTSBURGH, PA 15233
(412) 766 - 4810

www.alcosan.org

ALLEGHENY COUNTY SANITARY AUTHORITY
REGIONAL CONVEYANCE SYSTEM
MISCELLANEOUS FLAP GATE, SLUICE GATE, AND
VALVE REPLACEMENTS AT VARIOUS LOCATIONS

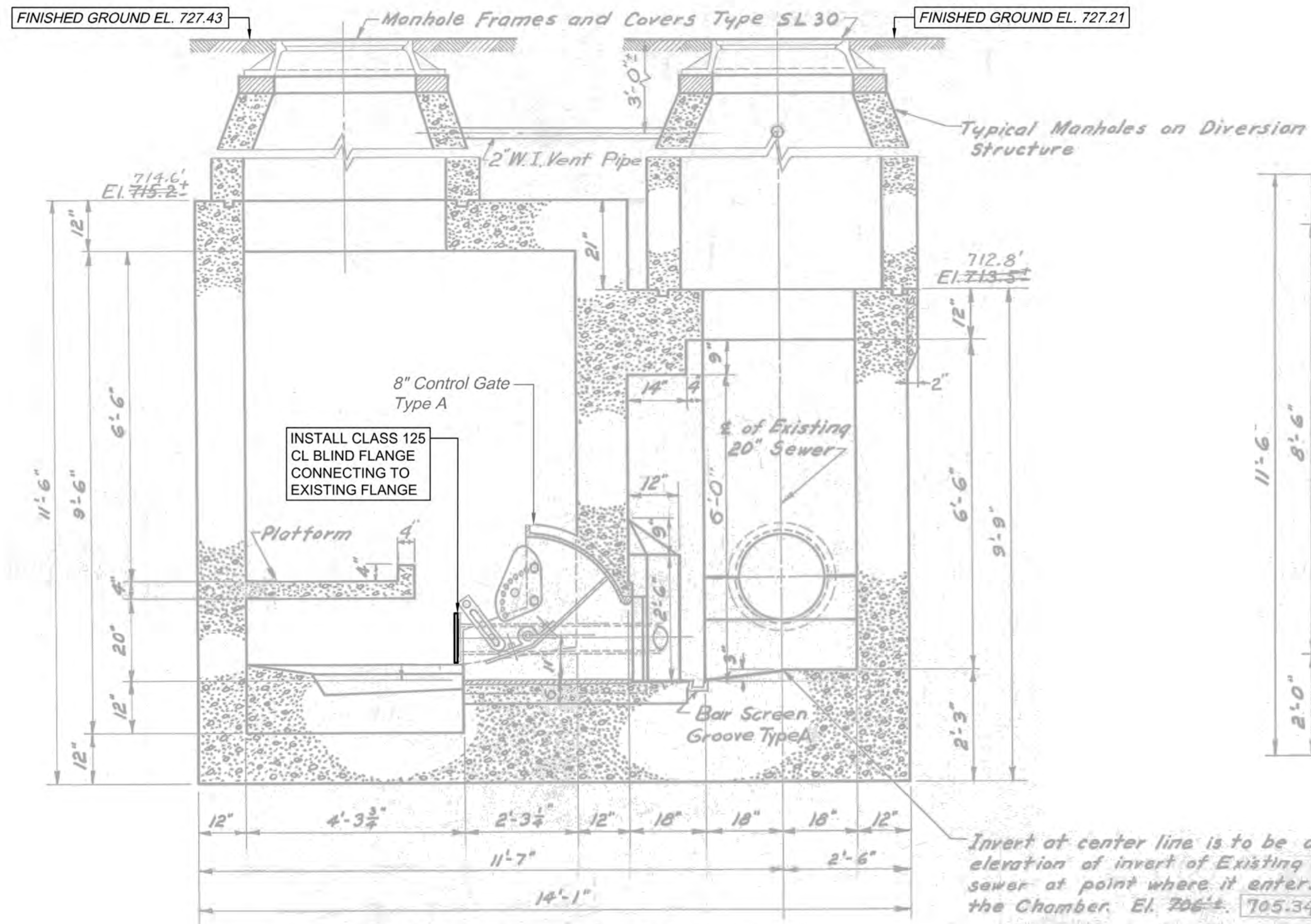
A-20

BYPASS VALVE REPLACEMENT
PLANS AND SECTIONS



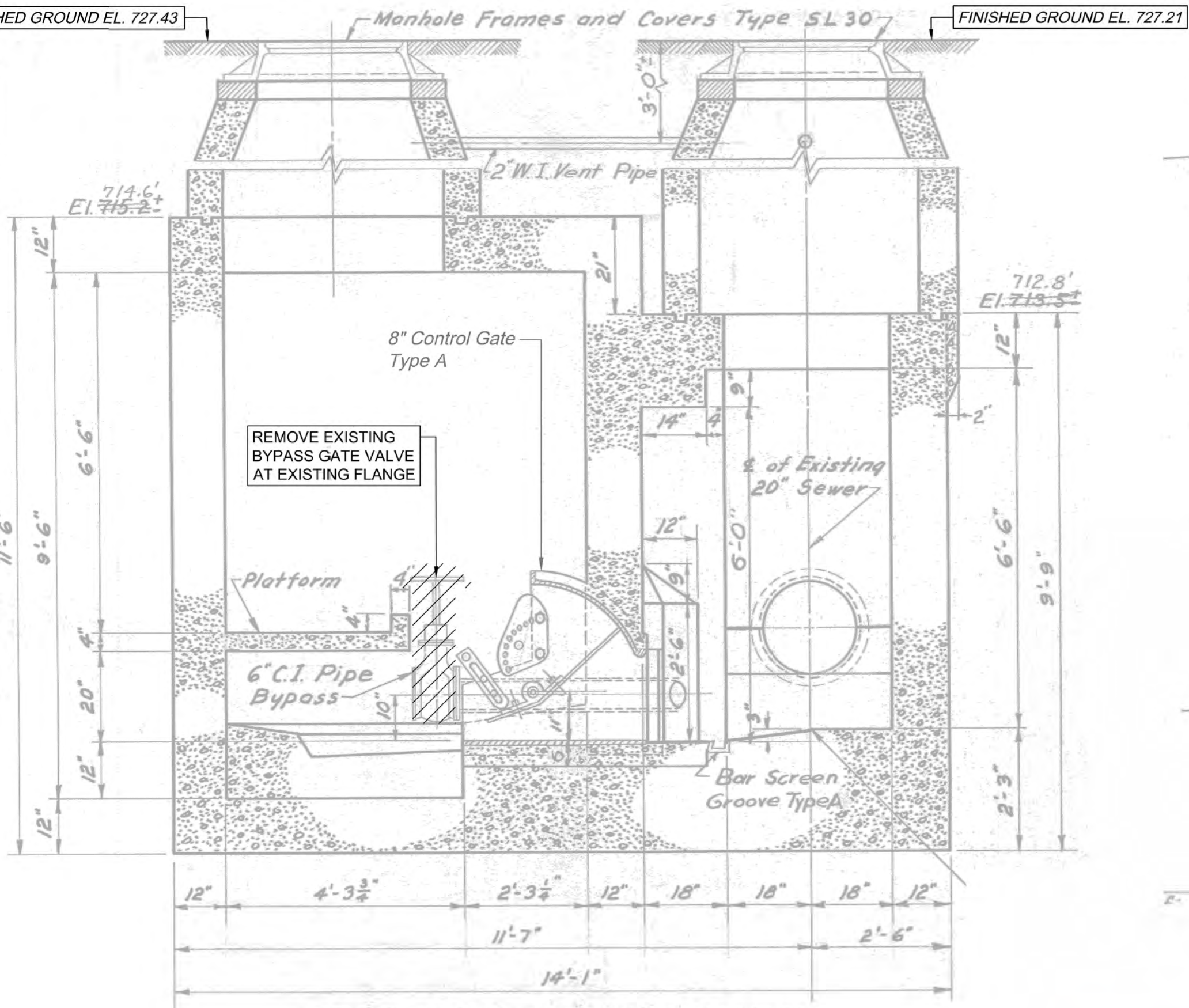
HORIZONTAL SECTION

SCALE: 1/2"=1'



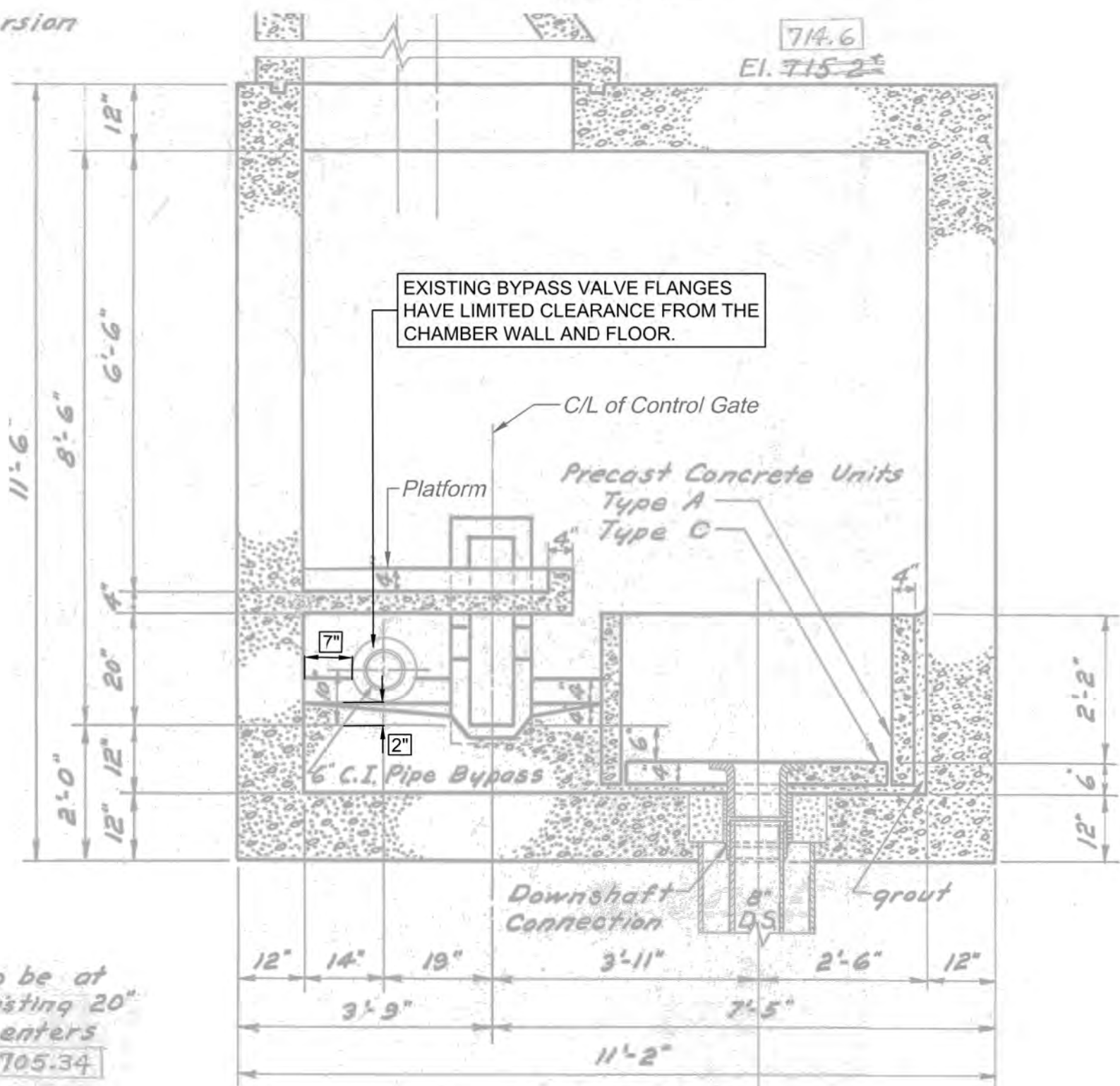
SECTION A-A - NEW WORK VIEW

SCALE: 1/2"=1'



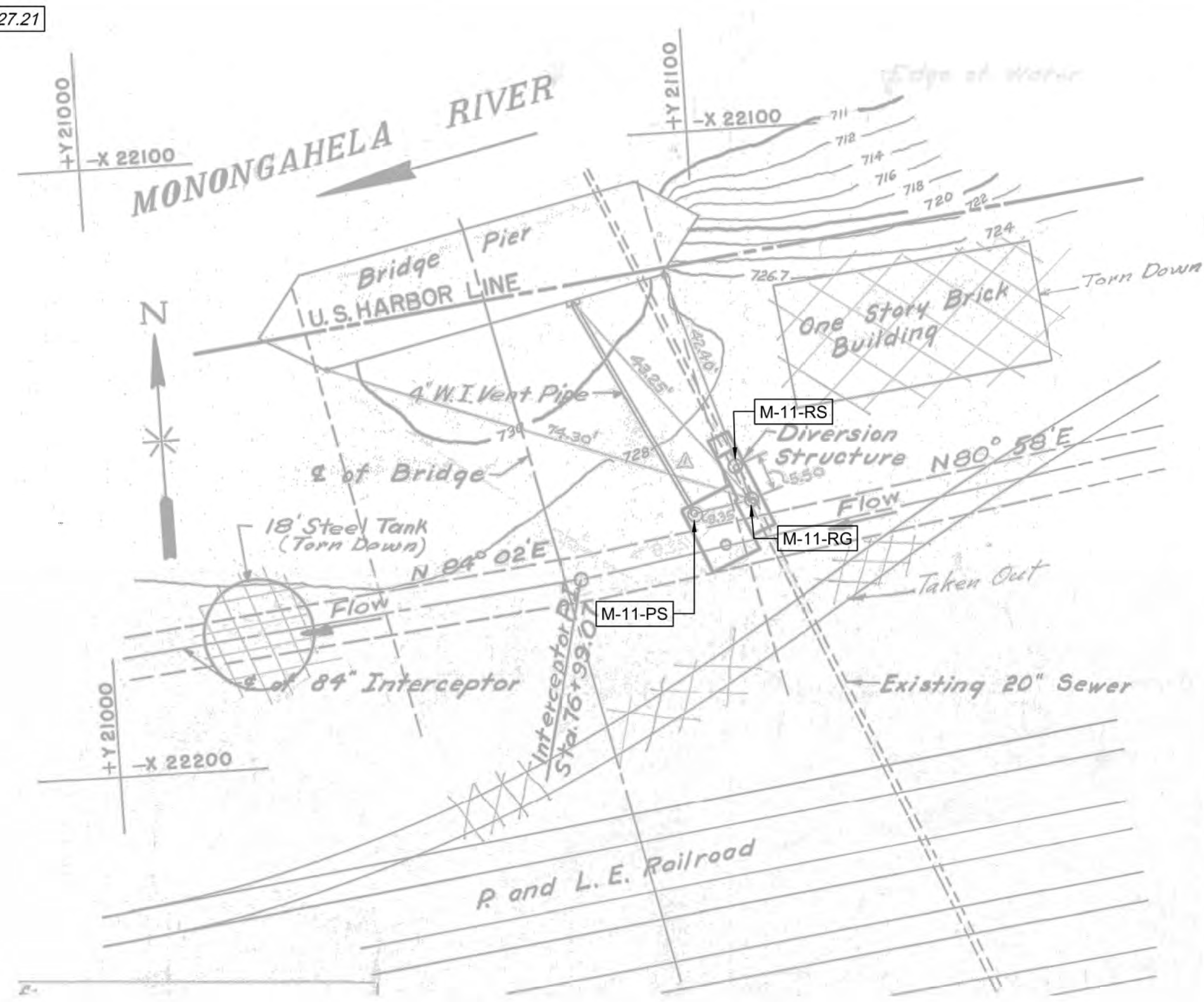
SECTION A-A - DEMOLITION VIEW

SCALE: 1/2"=1'



SECTION B-B

SCALE: 1/2"=1'



SITE LOCATION PLAN

SCALE: 1"=20'



BYPASS
GATE VALVE



BYPASS
GATE VALVE

FIELD INSPECTION PHOTOS

LEGEND:



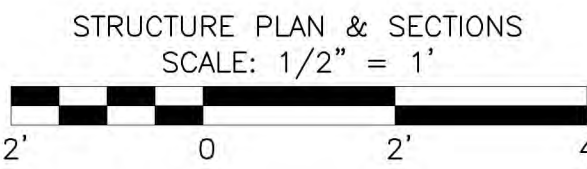
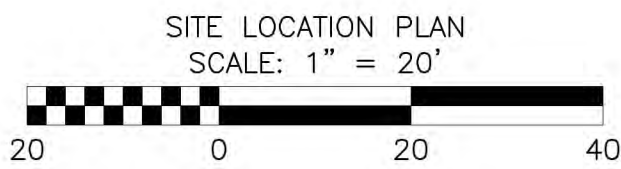
INDICATES DEMOLITION



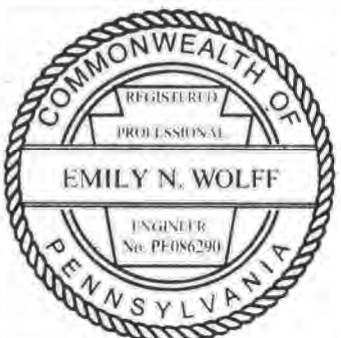
INDICATES NEW WORK

GENERAL NOTES:

- ANY MARKUPS FROM THE ORIGINAL REFERENCE DRAWING, CONTRACT 50, SHEET 28, DATED NOVEMBER 10, 1953 (REVISED 1979), WERE CARRIED OVER AND SHOWN IN GRAY AND ALL DEMOLITION AND NEW WORK FOR THIS CONTRACT ARE SHOWN IN BLACK PER THE LEGEND.
- NOTED SCALE OF PLANS, SECTIONS, AND DETAILS IS APPROXIMATE. CONTRACTOR TO FIELD CONFIRM ALL WORKING DIMENSIONS AND COORDINATE ANY DISCREPANCIES WITH CONSTRUCTION MANAGER BEFORE PROCEEDING WITH ANY CONTRACT WORK.
- REFERENCE PROJECT NOTES AND SCOPE OF SUMMARY TABLES SHEET FOR MORE DETAILS ON BYPASS VALVE REMOVAL REQUIREMENTS.



Designed by:	REVISION				APPV
	REV No.	DATE	DESCRIPTION		
E.WOLFF	0	9/2/2025	ISSUED FOR BID		
Drawn by:					
S.VOETTNER					
Checked by:					
D.TROIANOS					



ARLETTA SCOTT WILLIAMS
EXECUTIVE DIRECTOR, ALCOSAN

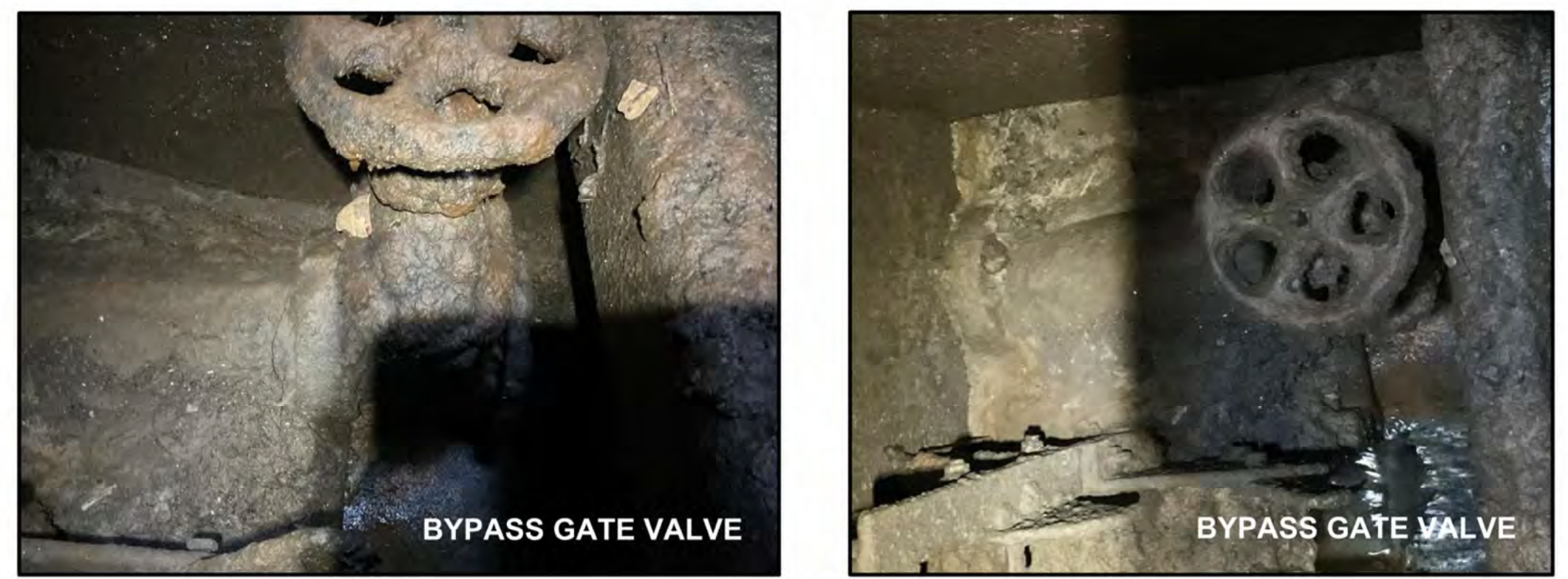
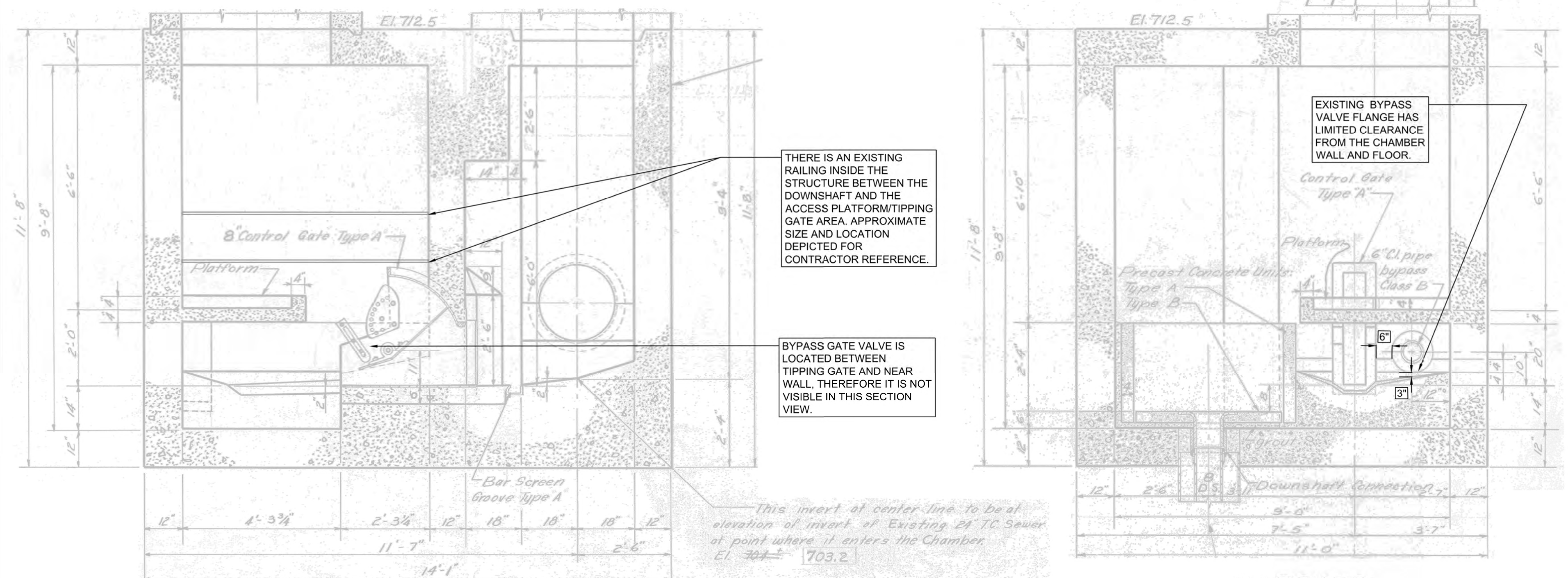
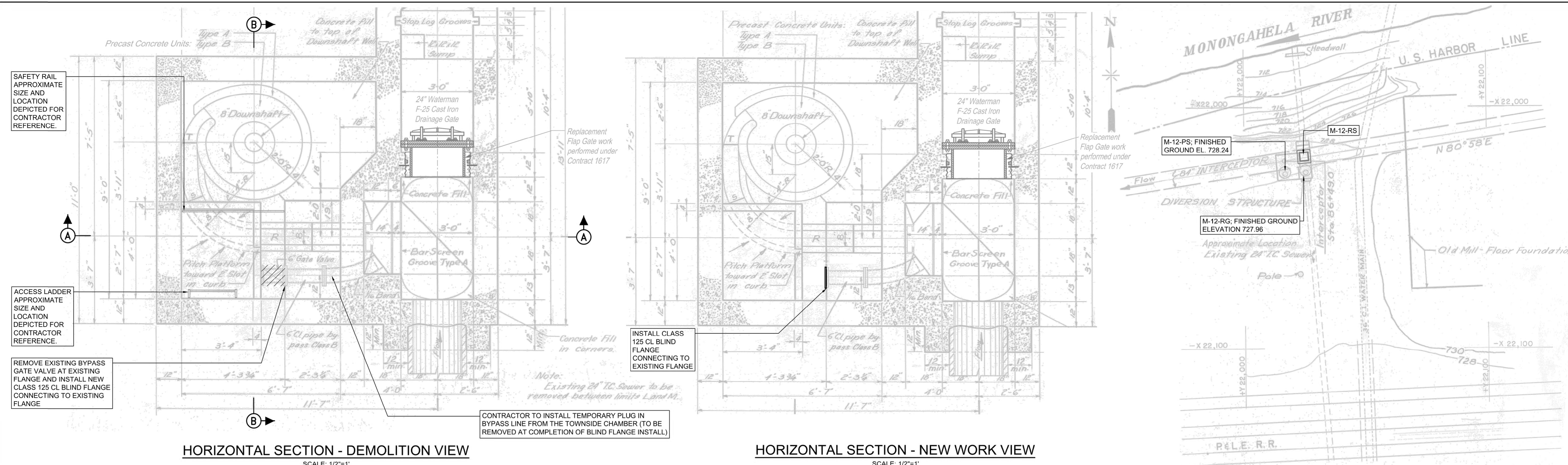
3300 PREBLE AVE.
PITTSBURGH, PA 15233
(412) 766 - 4810

www.alcosan.org

ALLEGHENY COUNTY SANITARY AUTHORITY
REGIONAL CONVEYANCE SYSTEM
MISCELLANEOUS FLAP GATE, SLUICE GATE, AND
VALVE REPLACEMENTS AT VARIOUS LOCATIONS

M-11
BYPASS VALVE REMOVAL
PLANS AND SECTIONS

Contract:	1818
CAD File Name:	1818-M-11-PLSC-01.DWG
Date:	06/11/2025
Sheet:	13 of 68



LEGEND:

INDICATES DEMOLITION

INDICATES NEW WORK

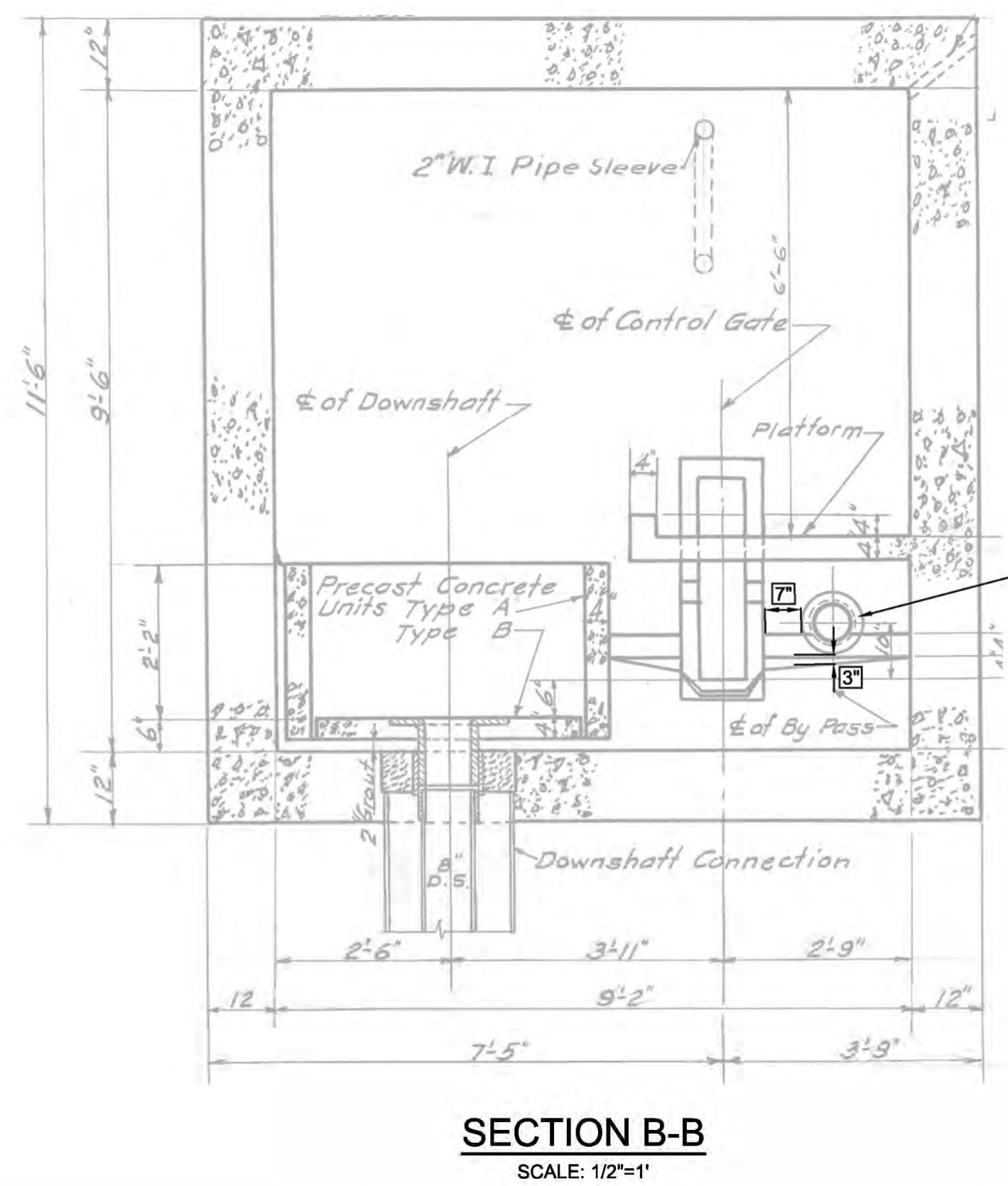
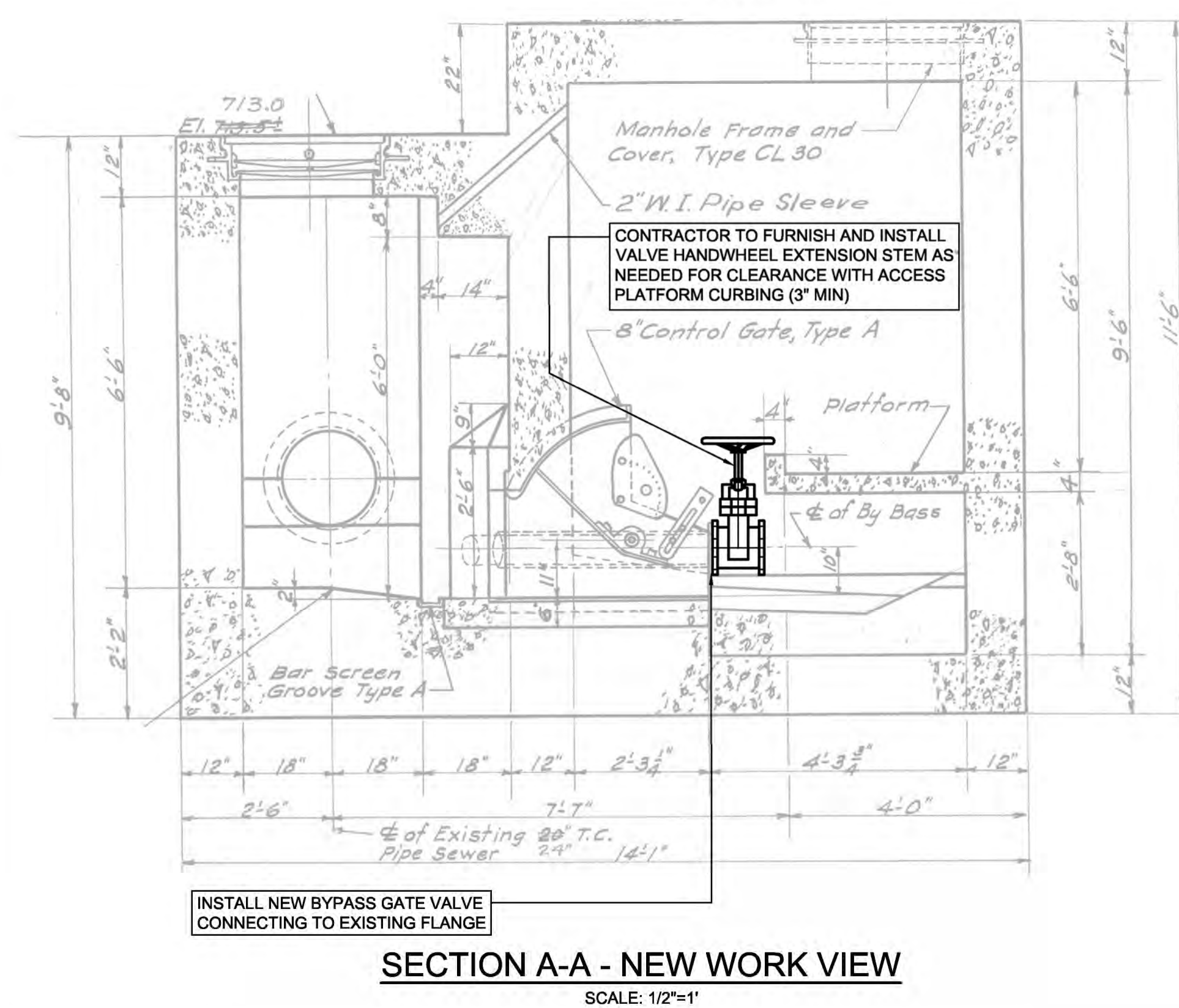
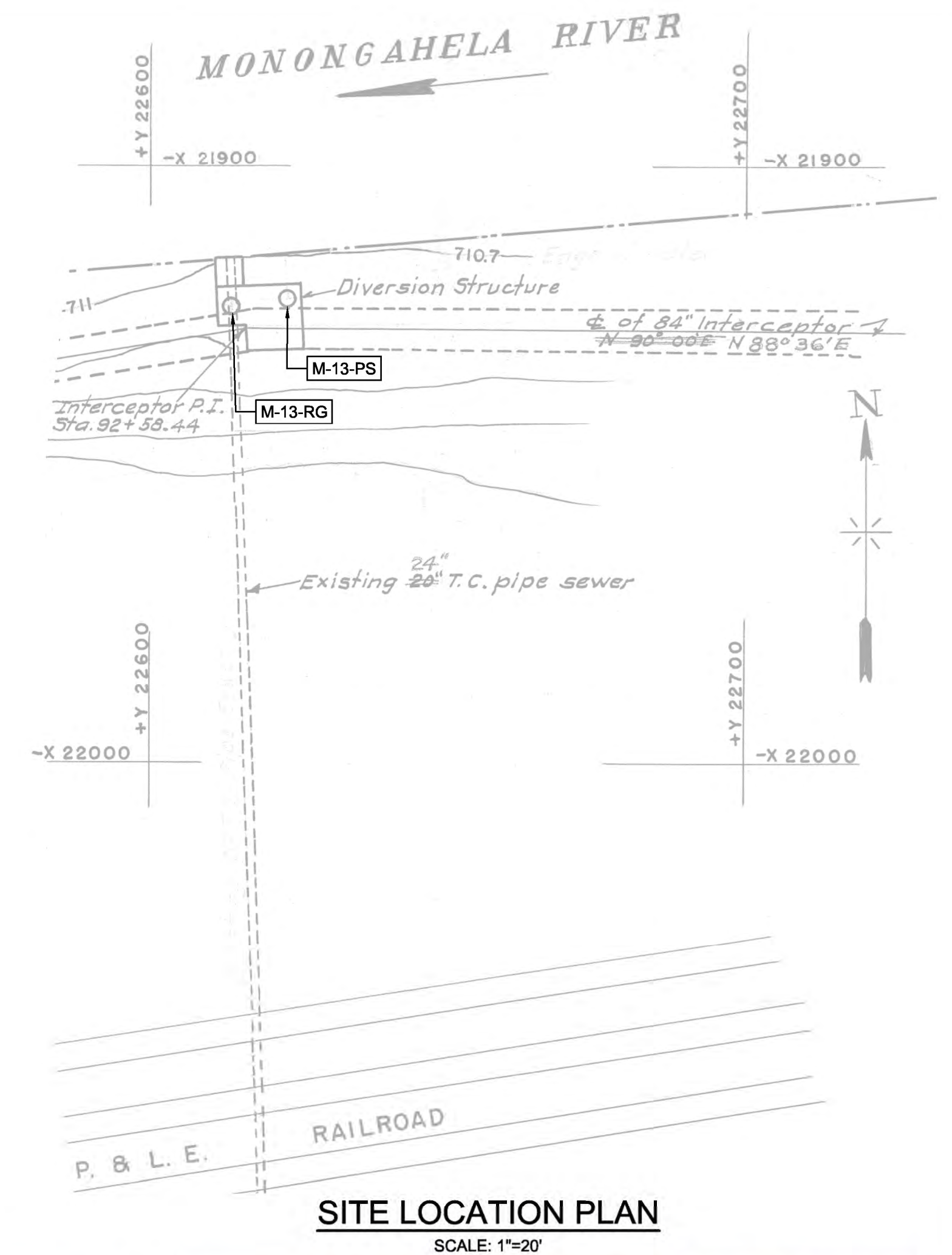
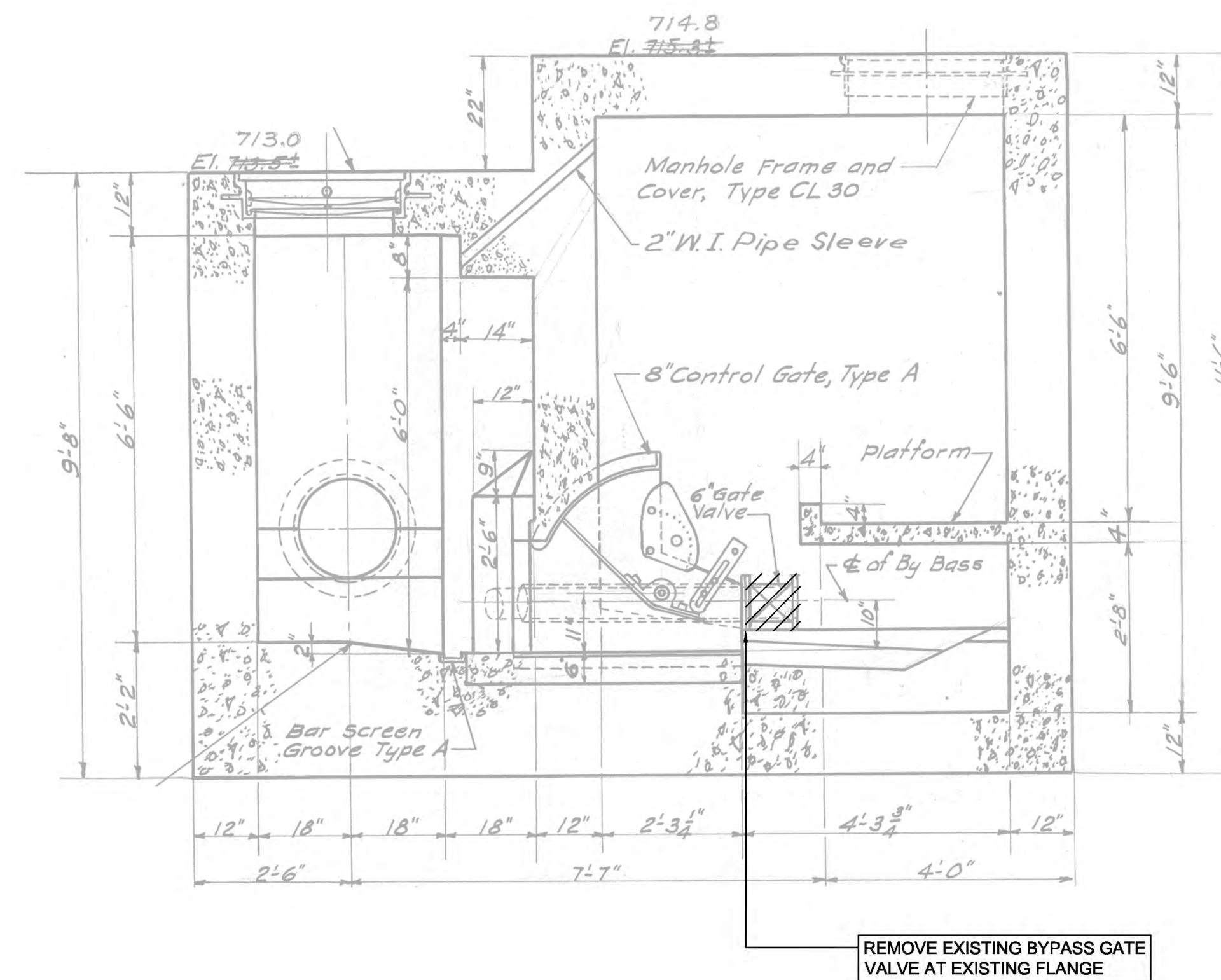
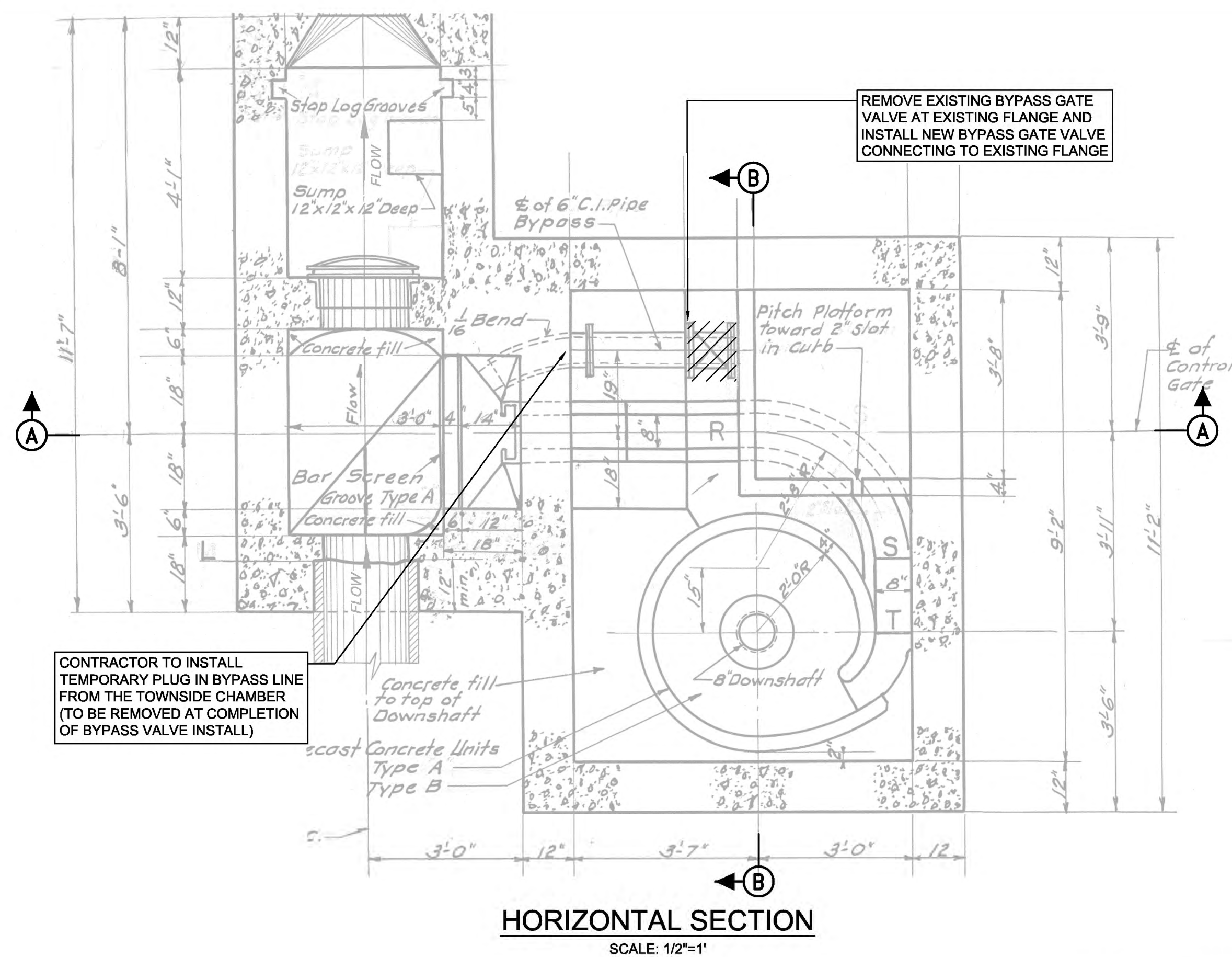
GENERAL NOTES:

- ANY MARKUPS FROM THE ORIGINAL REFERENCE DRAWING, CONTRACT 50, SHEET 30, DATED NOVEMBER 10, 1953 (REVISED 2016), WERE CARRIED OVER AND SHOWN IN GRAY AND ALL DEMOLITION AND NEW WORK FOR THIS CONTRACT ARE SHOWN IN BLACK PER THE LEGEND.
- NOTED SCALE OF PLANS, SECTIONS, AND DETAILS IS APPROXIMATE. CONTRACTOR TO FIELD CONFIRM ALL WORKING DIMENSIONS AND COORDINATE ANY DISCREPANCIES WITH CONSTRUCTION MANAGER BEFORE PROCEEDING WITH ANY CONTRACT WORK.
- REFERENCE PROJECT NOTES AND SCOPE OF SUMMARY TABLES SHEET FOR MORE DETAILS ON BYPASS VALVE REMOVAL REQUIREMENTS.

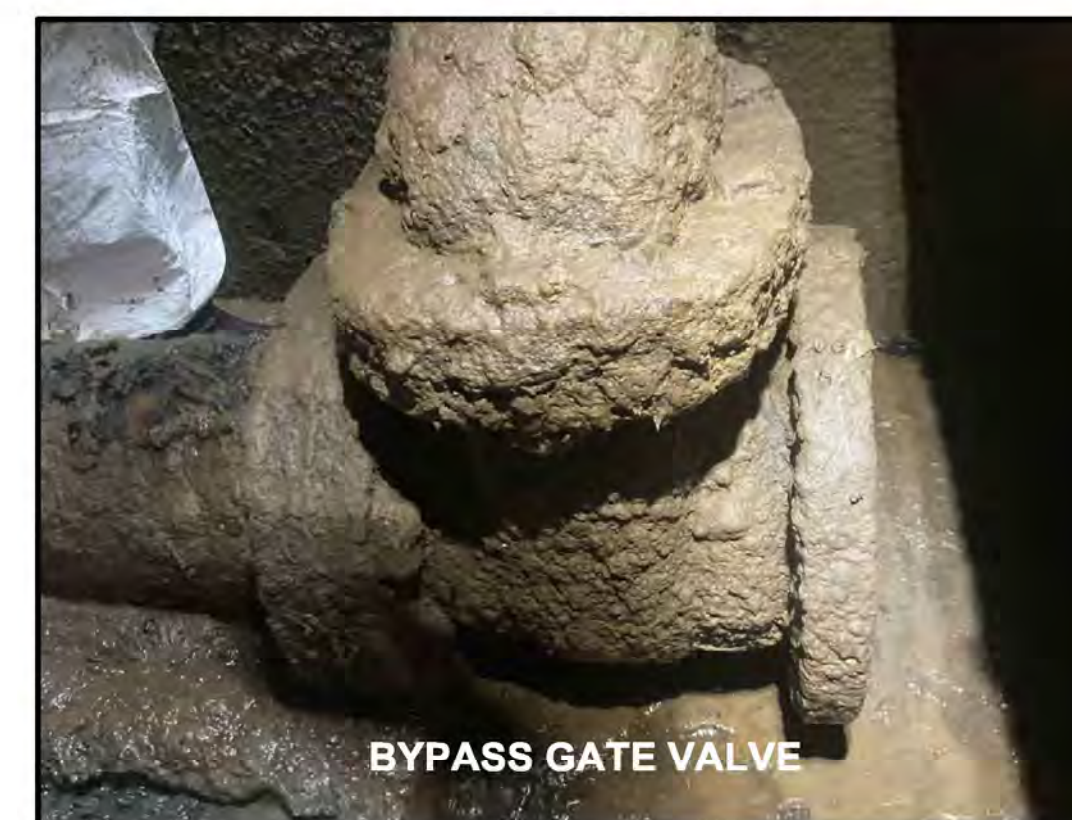
SITE LOCATION PLAN
SCALE: 1" = 20'

STRUCTURE PLAN & SECTIONS
SCALE: 1/2" = 1'

Designed by:	REVISION							ARLETTA SCOTT WILLIAMS EXECUTIVE DIRECTOR, ALCOSAN 3300 PREBLE AVE. PITTSBURGH, PA 15233 (412) 766 - 4810 www.alcosan.org	ALLEGHENY COUNTY SANITARY AUTHORITY REGIONAL CONVEYANCE SYSTEM MISCELLANEOUS FLAP GATE, SLUICE GATE, AND VALVE REPLACEMENTS AT VARIOUS LOCATIONS M-12 BYPASS VALVE REMOVAL PLANS AND SECTIONS	Contract:
E.WOLFF	REV No.	DATE	DESCRIPTION	APPV						181
Drawn by:	01	9/2/2025	ISSUED FOR BID							CAD File Name:
S.VOETTNER										1818-M-12-PLSC-01.DWG
Checked by:										Date:
D.TROIANOS										06/11/2025
										Sheet:
					14 of 6					



EXISTING AND REPLACEMENT BYPASS VALVE FLANGES HAVE LIMITED CLEARANCE FROM THE CHAMBER WALL AND FLOOR. REPLACEMENT VALVE HANDWHEEL MAY HAVE LESS CLEARANCE WITH THE CHAMBER WALL THAN THE VALVE FLANGE AND EXISTING VALVE. NOTE THAT THE BYPASS VALVE IS NOT SHOWN IN THIS SECTION VIEW FOR CLARITY.



LEGEND:

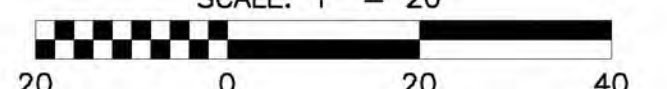


GENERAL NOTES:

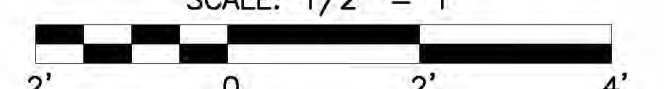
1. ANY MARKUPS FROM THE ORIGINAL REFERENCE DRAWING, CONTRACT 50, SHEET 31, DATED NOVEMBER 10, 1953 (REVISED 1979), WERE CARRIED OVER AND SHOWN IN GRAY AND ALL DEMOLITION AND NEW WORK FOR THIS CONTRACT ARE SHOWN IN BLACK PER THE LEGEND.
2. NOTED SCALE OF PLANS, SECTIONS, AND DETAILS IS APPROXIMATE. CONTRACTOR TO FIELD CONFIRM ALL WORKING DIMENSIONS AND COORDINATE ANY DISCREPANCIES WITH CONSTRUCTION MANAGER BEFORE PROCEEDING WITH ANY CONTRACT WORK.
3. REFERENCE PROJECT NOTES AND SCOPE OF SUMMARY TABLES SHEET FOR MORE DETAILS ON BYPASS VALVE REPLACEMENT REQUIREMENTS.

FIELD INSPECTION PHOTOS

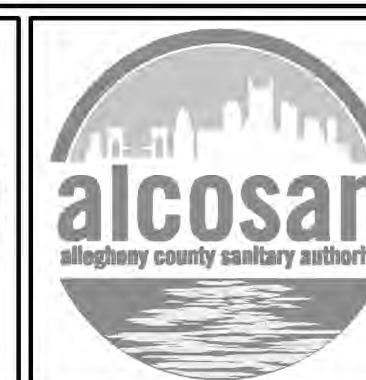
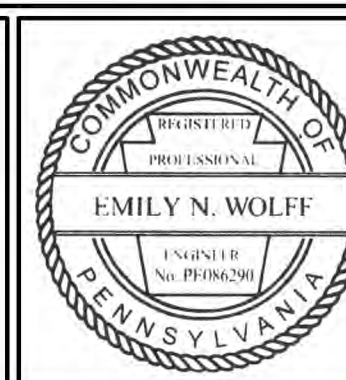
SITE LOCATION PLAN
SCALE: 1" = 20'



STRUCTURE PLAN & SECTIONS
SCALE: 1/2" = 1'



Designed by: <div>E.WOLFF</div> Drawn by: <div>S.VOETTNER</div> Checked by: <div>D.TROIANOS</div>	REVISION			
	REV No.	DATE	DESCRIPTION	APPR
	0	9/2/2025	ISSUED FOR BID	

[illegible]

ARLETTA SCOTT WILLIAMS
EXECUTIVE DIRECTOR, ALCOSAN

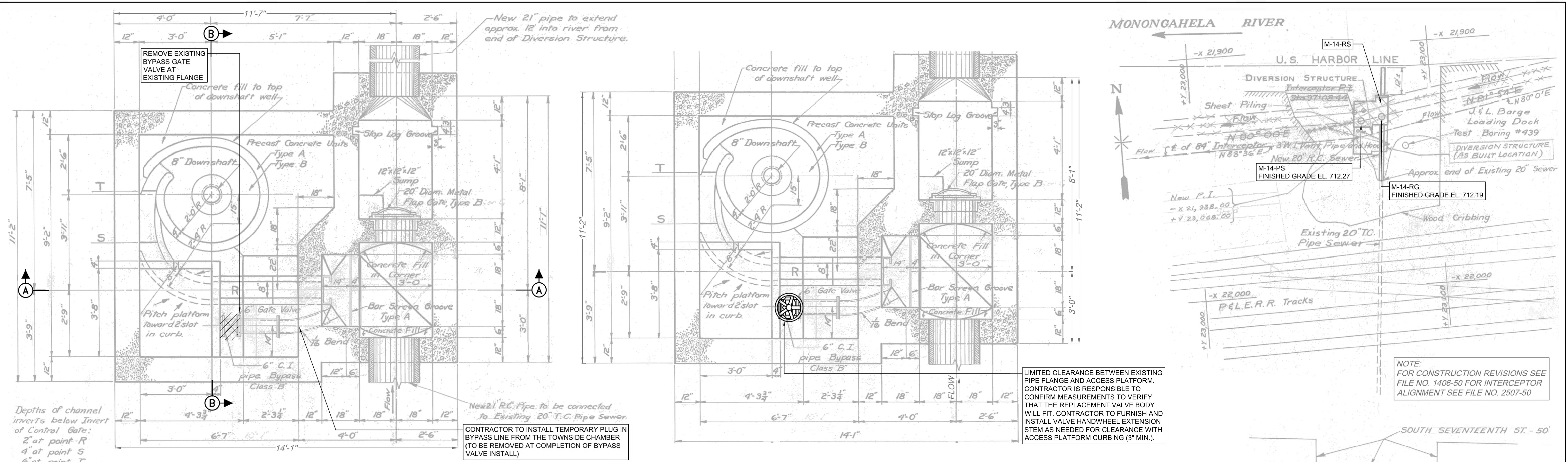
3300 PREBLE AVE.
PITTSBURGH, PA 15233
(412) 766 - 4810

www.alcosan.org

ALLEGHENY COUNTY SANITARY AUTHORITY
REGIONAL CONVEYANCE SYSTEM
MISCELLANEOUS FLAP GATE, SLUICE GATE, AND
VALVE REPLACEMENTS AT VARIOUS LOCATIONS

M-13
BYPASS VALVE REPLACEMENT
PLANS AND SECTIONS

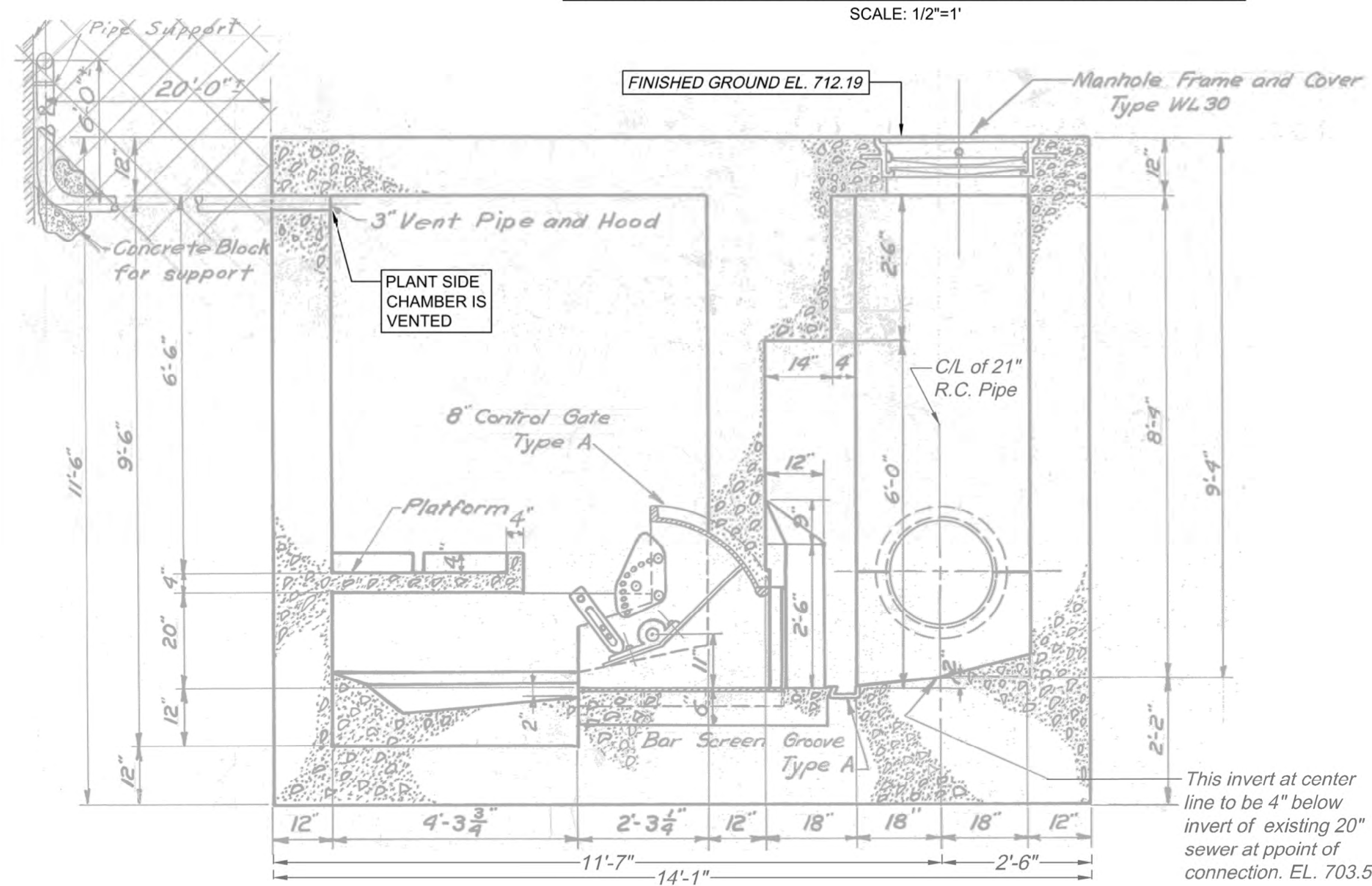
Contract:	1818
CAD File Name:	1818-M-13-PLSC-01.DWG
Date:	06/11/2025
Sheet:	15 of 68



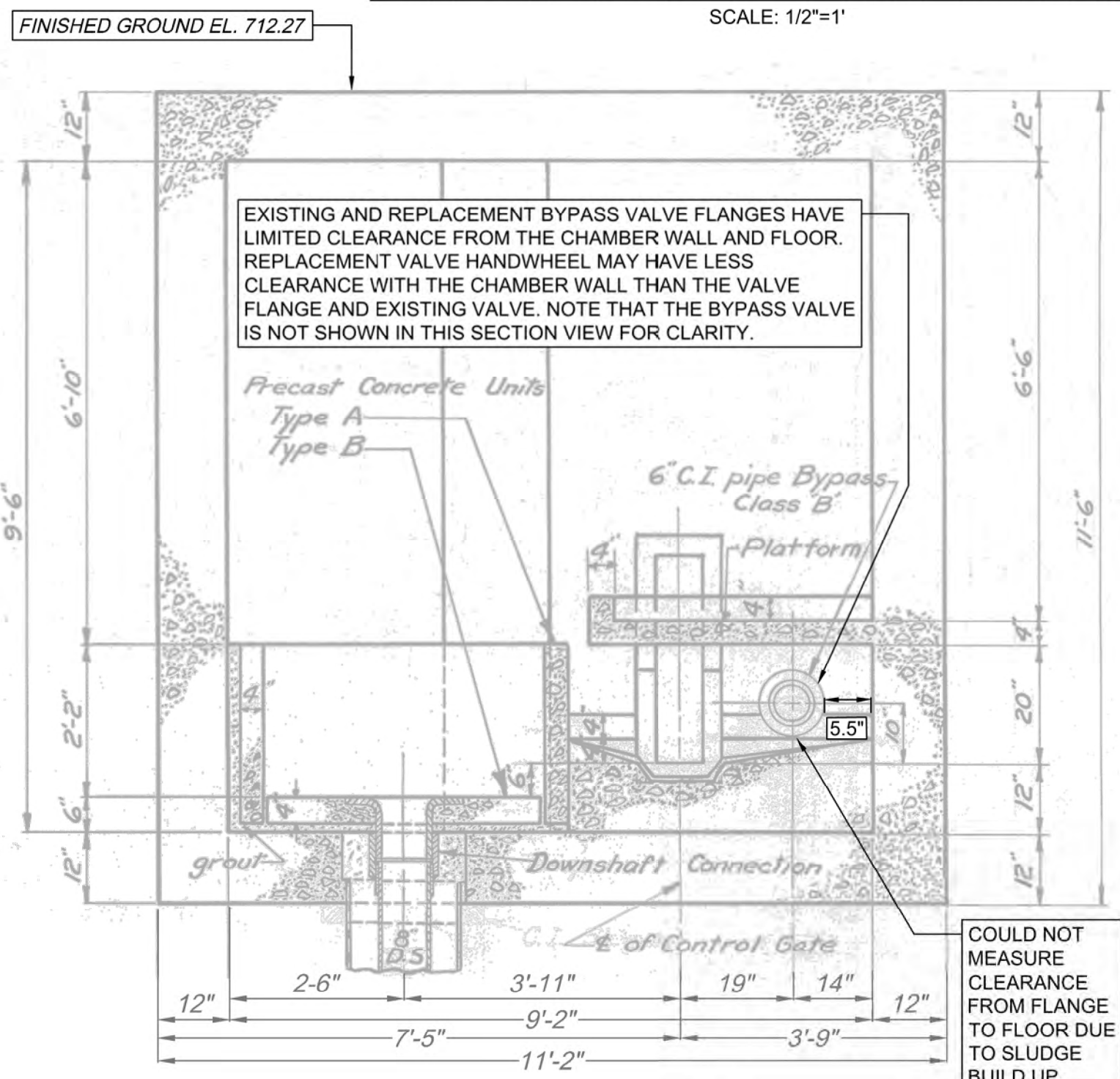
HORIZONTAL SECTION - DEMOLITION VIEW

HORIZONTAL SECTION - NEW WORK VIEW

SITE LOCATION PLAN



SECTION A-A



SECTION B-B



FIELD INSPECTION PHOTOS

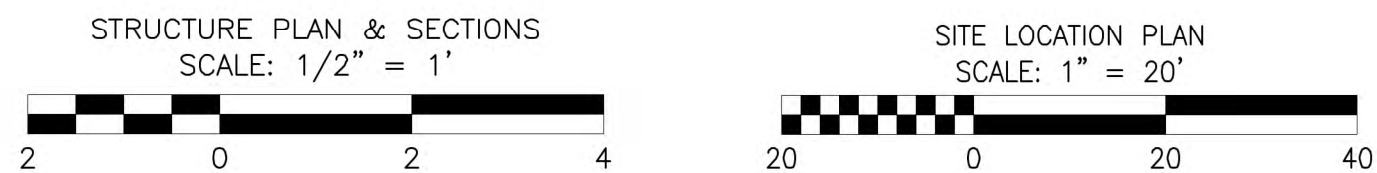
LEGEND:

INDICATES DEMOLITION

INDICATES NEW WORK

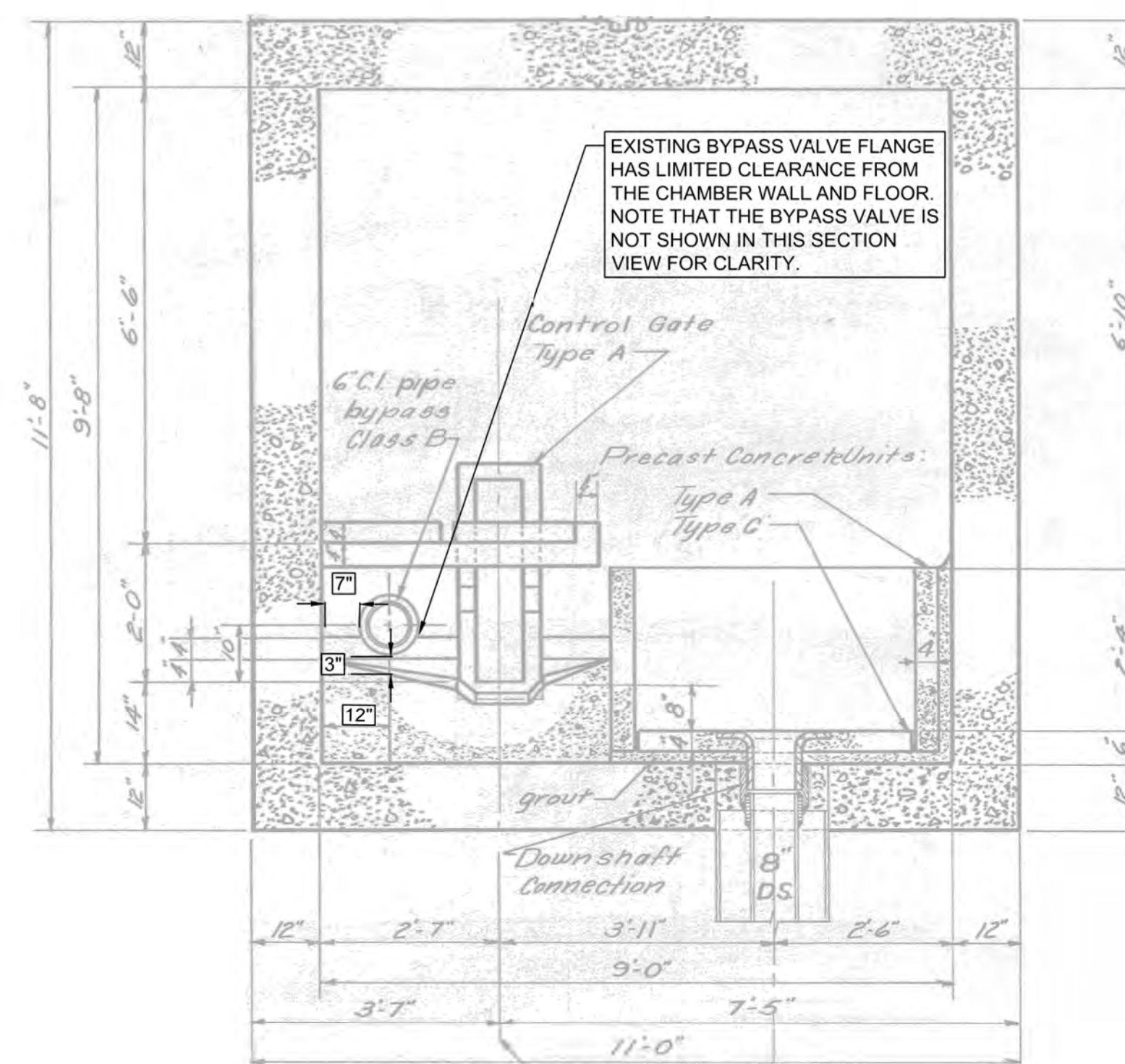
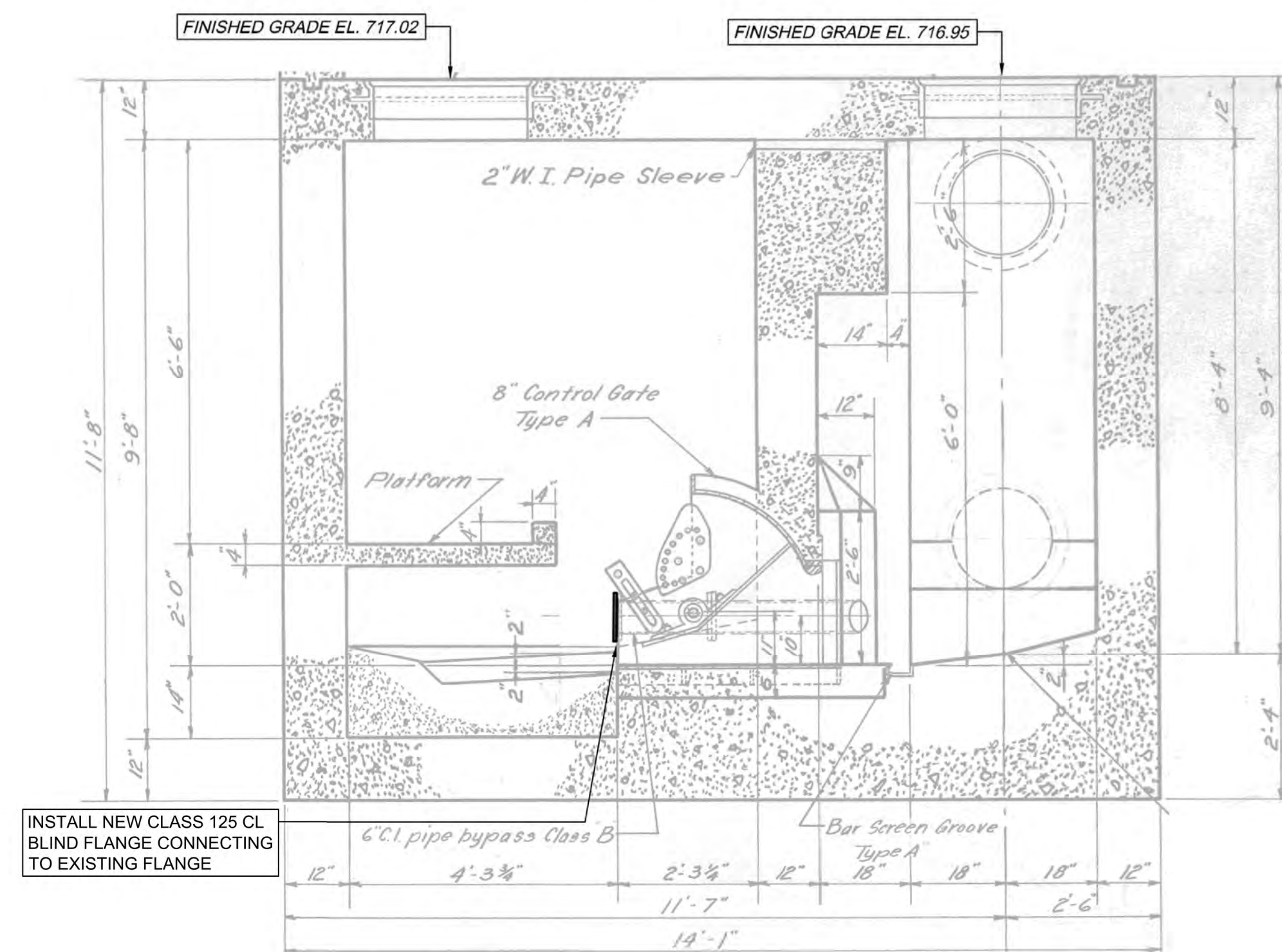
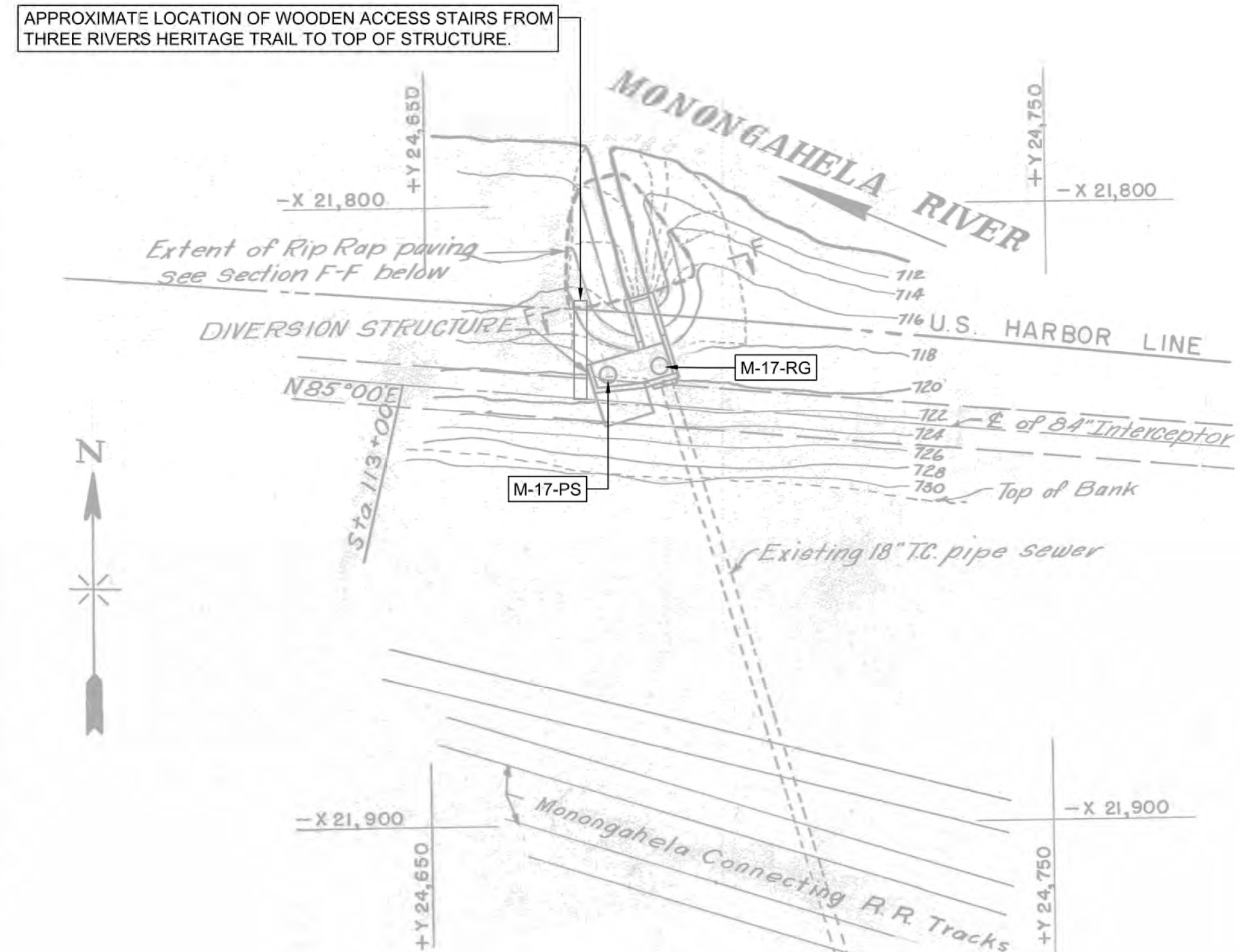
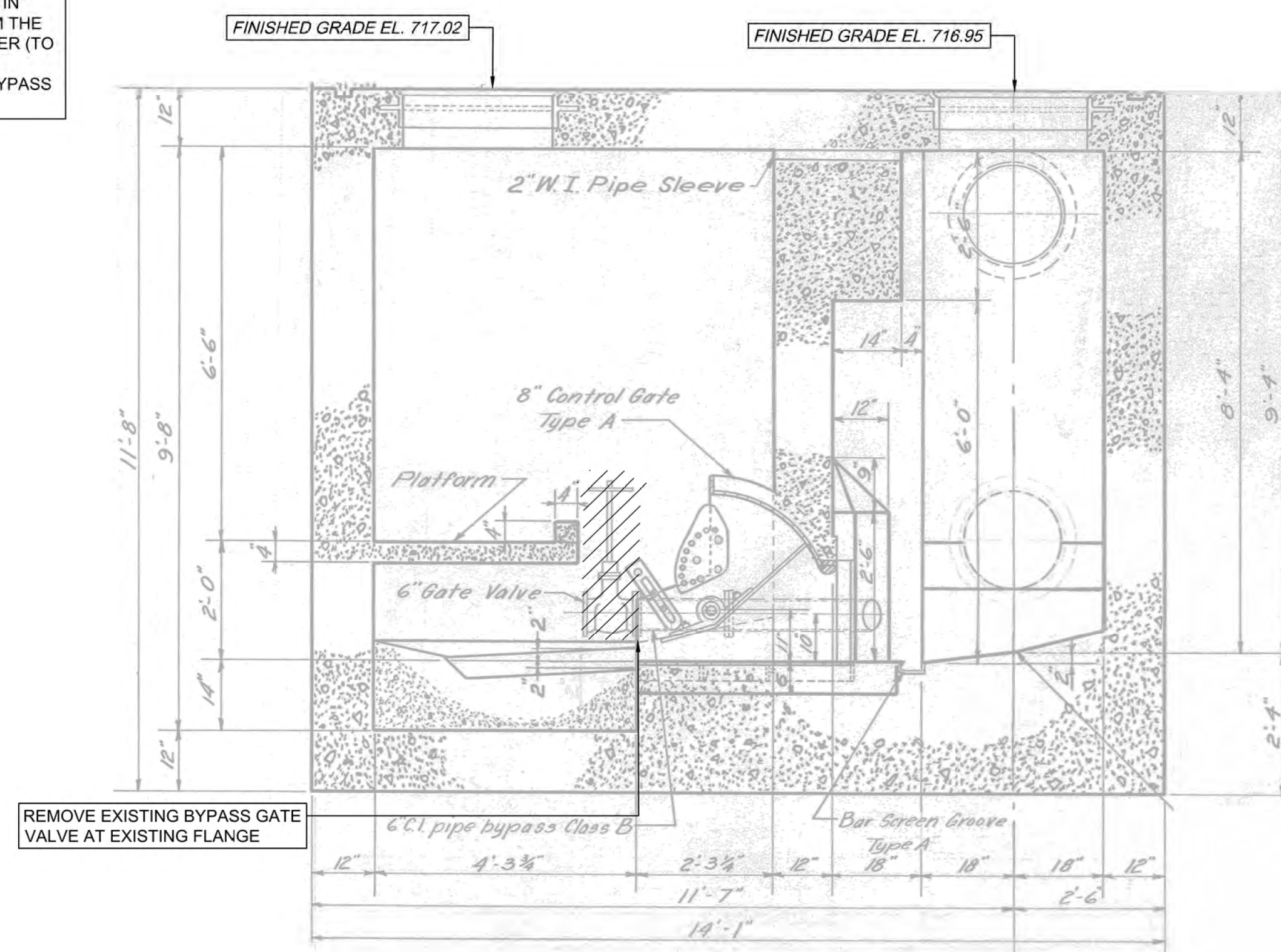
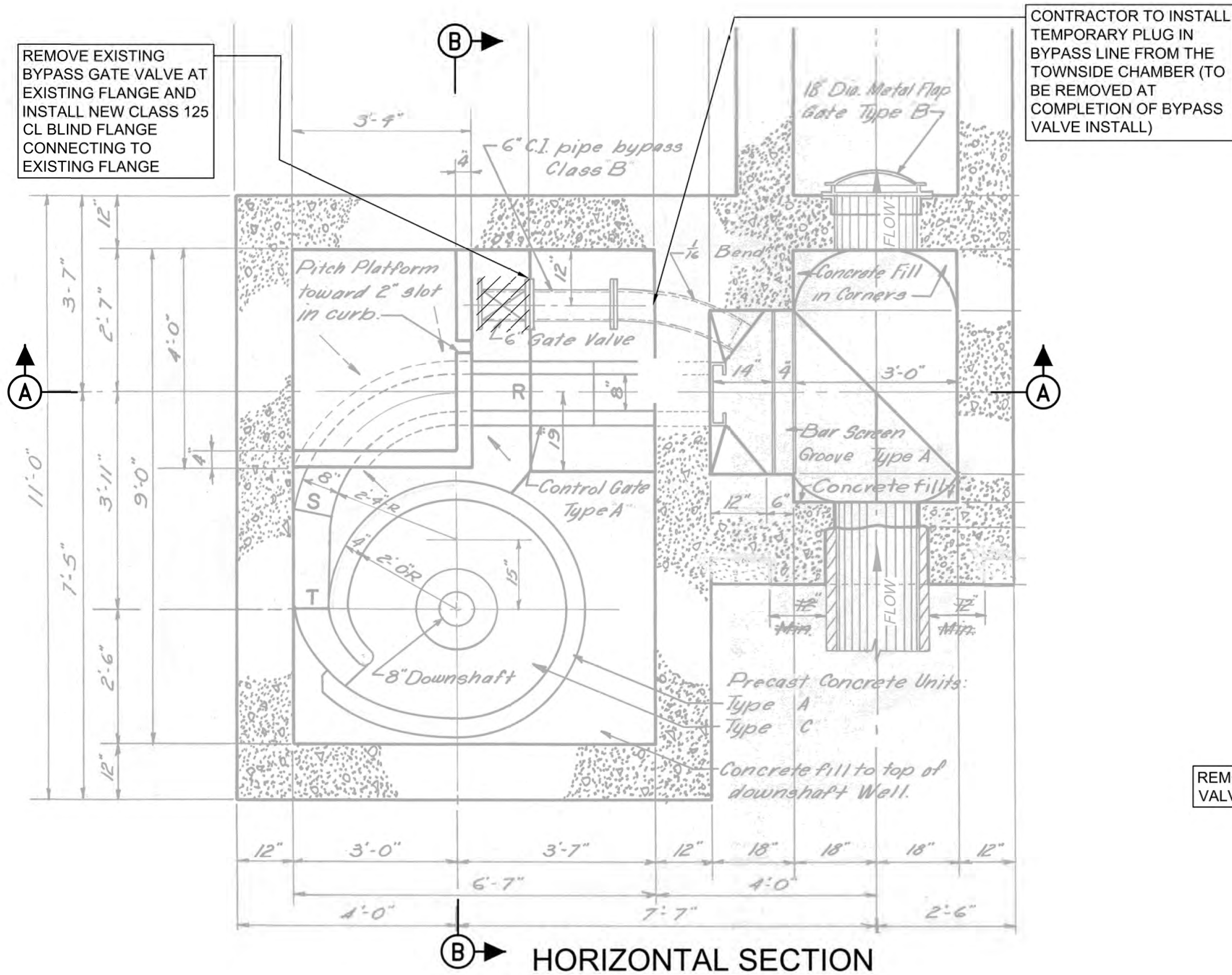
GENERAL NOTES:

- ANY MARKUPS FROM THE ORIGINAL REFERENCE DRAWING, CONTRACT 50, SHEET 32, DATED NOVEMBER 10, 1953 (REVISED 1979), WERE CARRIED OVER AND SHOWN IN GRAY AND ALL DEMOLITION AND NEW WORK FOR THIS CONTRACT ARE SHOWN IN BLACK PER THE LEGEND.
- NOTED SCALE OF PLANS, SECTIONS, AND DETAILS IS APPROXIMATE. CONTRACTOR TO FIELD CONFIRM ALL WORKING DIMENSIONS AND COORDINATE ANY DISCREPANCIES WITH CONSTRUCTION MANAGER BEFORE PROCEEDING WITH ANY CONTRACT WORK.
- REFERENCE PROJECT NOTES AND SCOPE OF SUMMARY TABLES SHEET FOR MORE DETAILS ON BYPASS VALVE REPLACEMENT REQUIREMENTS.




Designed by: E. WOLFF	REVISION DESCRIPTION APPV				
Drawn by: S. VOETTNER	REV No. DATE	1 9/2/2025	ISSUED FOR BID		
Checked by: D. TROIANOS					

			ARLETTA SCOTT WILLIAMS EXECUTIVE DIRECTOR, ALCOSAN 3300 PREBLE AVE. PITTSBURGH, PA 15233 (412) 766 - 4810 www.alcosan.org	ALLEGHENY COUNTY SANITARY AUTHORITY REGIONAL CONVEYANCE SYSTEM MISCELLANEOUS FLAP GATE, SLUICE GATE, AND VALVE REPLACEMENTS AT VARIOUS LOCATIONS M-14 BYPASS VALVE REPLACEMENT PLANS AND SECTIONS	Contract: 1818 CAD File Name: 1818-M-14-PLSC-01.DWG Date: 06/11/2025 Sheet: 16 of 68
--	--	--	--	---	---



FIELD INSPECTION PHOTOS

LEGEND:

 INDICATES DEMOLITION

GENERAL NOTES:

1. ANY MARKUPS FROM THE ORIGINAL REFERENCE DRAWING, CONTRACT 50, SHEET 36, DATED NOVEMBER 10, 1953 (REVISED 1967), WERE CARRIED OVER AND SHOWN IN GRAY AND ALL DEMOLITION AND NEW WORK FOR THIS CONTRACT ARE SHOWN IN BLACK PER THE LEGEND.
2. NOTED SCALE OF PLANS, SECTIONS, AND DETAILS IS APPROXIMATE. CONTRACTOR TO FIELD CONFIRM ALL WORKING DIMENSIONS AND COORDINATE ANY DISCREPANCIES WITH CONSTRUCTION MANAGER BEFORE PROCEEDING WITH ANY CONTRACT WORK.
3. REFERENCE PROJECT NOTES AND SCOPE OF SUMMARY TABLES SHEET FOR MORE DETAILS ON BYPASS VALVE REMOVAL REQUIREMENTS.

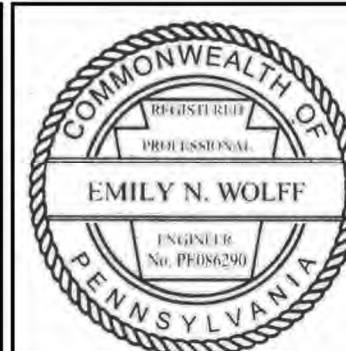
SITE LOCATION PLAN
SCALE: 1" = 20'

A horizontal graphic scale bar. The left end is marked '20', followed by a checkered pattern. The middle is marked '0'. To the right of '0' is a solid black segment marked '20', followed by another solid black segment marked '40'.

STRUCTURE PLAN & SECTIONS
SCALE: 1/2" = 1'

A horizontal graphic scale bar. It is divided into four equal segments. The first segment is black and white checkerboard. The second segment is solid black. The third segment is solid black. The fourth segment is solid black. Below the bar, the numbers 2, 0, 2, and 4 are placed under the first, second, third, and fourth segments respectively.

Designed by:	REVISION			
	REV No.	DATE	DESCRIPTION	APPV
E. WOLFF	0	9/2/2025	ISSUED FOR BID	
Drawn by:				
S. VOETTINER				
Checked by:				
D. TROIANOS				



ARLETTA SCOTT WILLIAMS
EXECUTIVE DIRECTOR, ALCOSAN

3300 PREBLE AVE.
PITTSBURGH, PA 15233
(412) 766 - 4810

www.alcosan.org

ALLEGHENY COUNTY SANITARY AUTHORITY
REGIONAL CONVEYANCE SYSTEM
MISCELLANEOUS FLAP GATE, SLUICE GATE, AND
VALVE REPLACEMENTS AT VARIOUS LOCATIONS

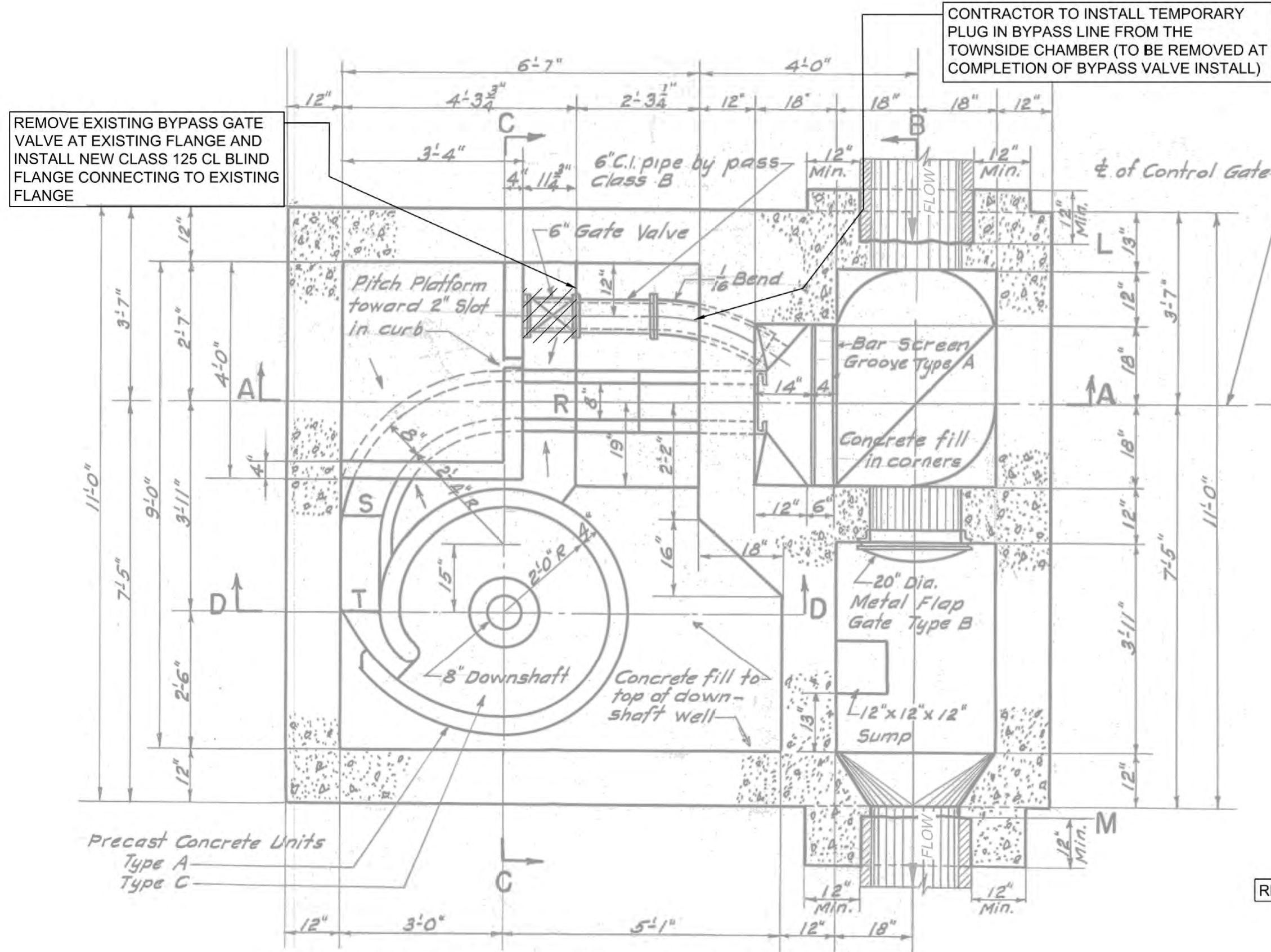
M-17
BYPASS VALVE REMOVAL
PLANS AND SECTIONS

Contract:	1818
CAD File Name:	1818-M-17-PLSC-01.DWG
Date:	06/11/2025
Sheet:	17 of 68

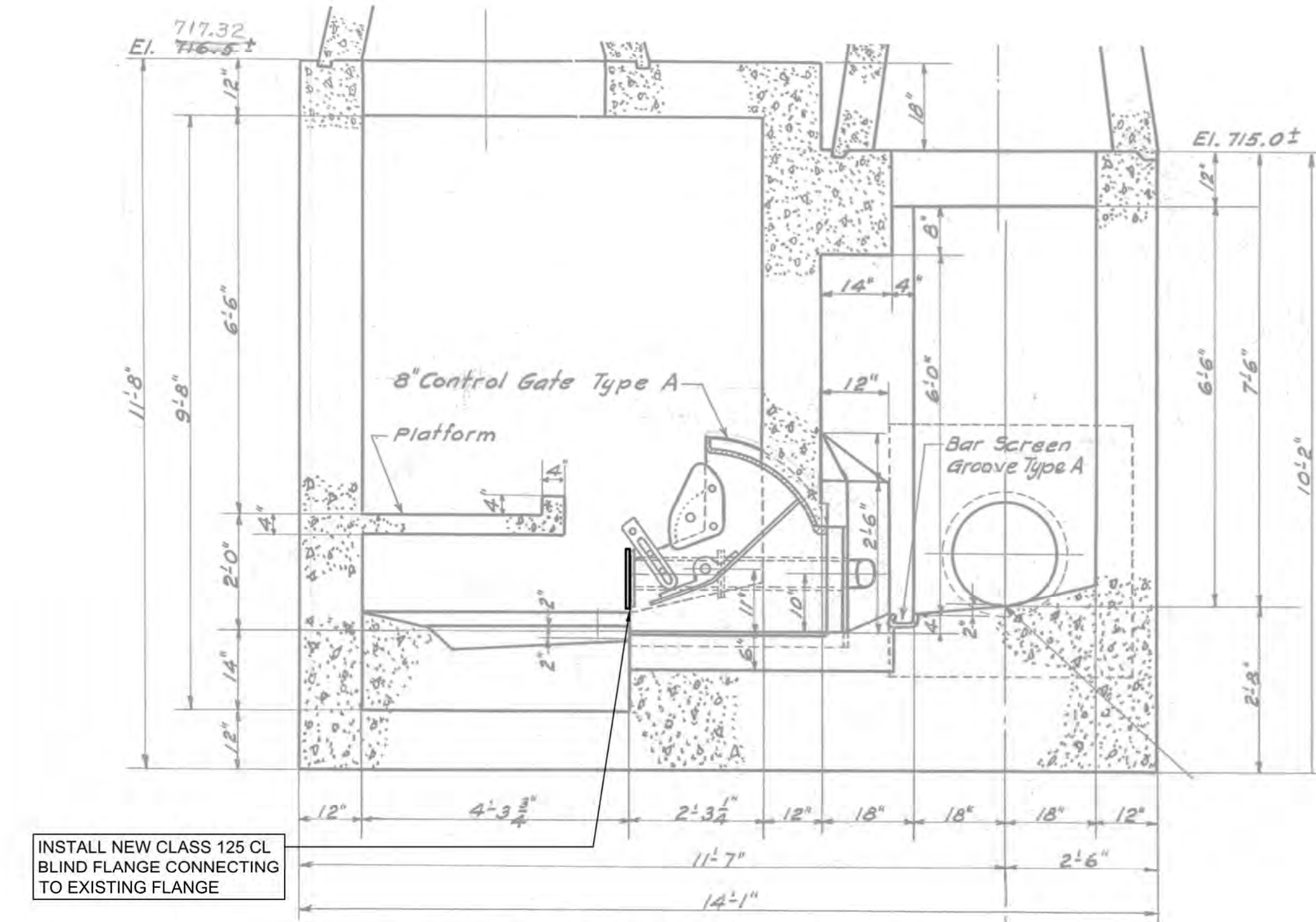
CAD File Name:

Date:

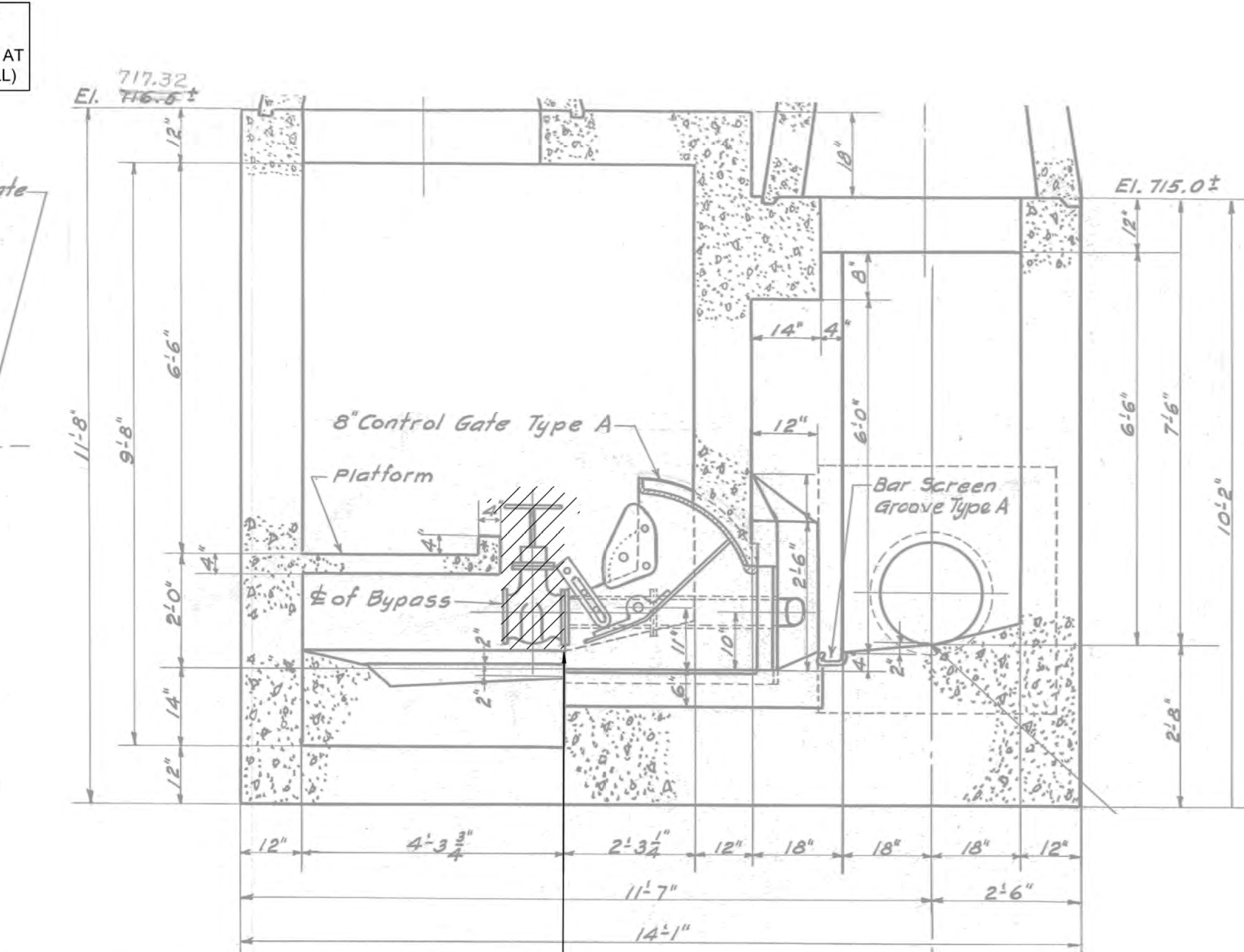
Sheet:



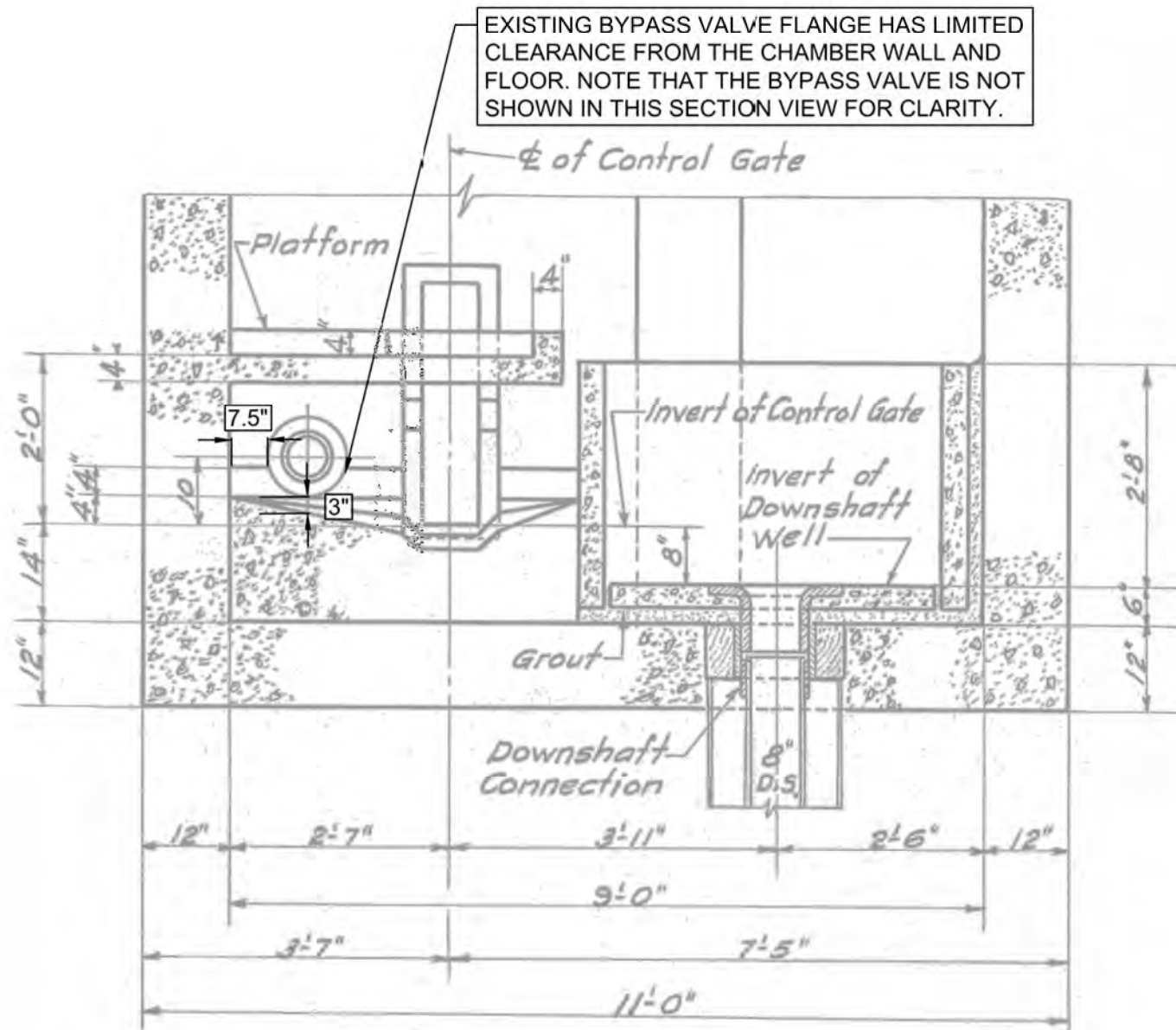
HORIZONTAL SECTION - DEMOLITION WORK
SCALE: 1/2"=1'



SECTION A-A - NEW WORK VIEW
SCALE: 1/2"=1'



SECTION A-A - DEMOLITION VIEW
SCALE: 1/2"=1'



SECTION C-C
SCALE: 1/2"=1'

SITE LOCATION PLAN
SCALE: 1"=10'

LOCATION PLAN
SCALE: 1"=10'-0"



BYPASS GATE VALVE



BYPASS GATE VALVE

FIELD INSPECTION PHOTOS

LEGEND:

INDICATES DEMOLITION

GENERAL NOTES:

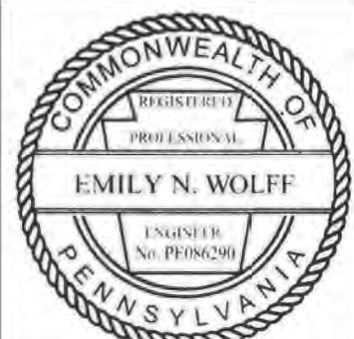
- ANY MARKUPS FROM THE ORIGINAL REFERENCE DRAWING, CONTRACT 46, SHEET 19, DATED OCTOBER 5, 1953, WERE CARRIED OVER AND SHOWN IN GRAY AND ALL DEMOLITION AND NEW WORK FOR THIS CONTRACT ARE SHOWN IN BLACK PER THE LEGEND.
- NOTED SCALE OF PLANS, SECTIONS, AND DETAILS IS APPROXIMATE. CONTRACTOR TO FIELD CONFIRM ALL WORKING DIMENSIONS AND COORDINATE ANY DISCREPANCIES WITH CONSTRUCTION MANAGER BEFORE PROCEEDING WITH ANY CONTRACT WORK.
- REFERENCE PROJECT NOTES AND SCOPE OF SUMMARY TABLES SHEET FOR MORE DETAILS ON BYPASS VALVE REMOVAL REQUIREMENTS.

STRUCTURE PLAN & SECTIONS
SCALE: 1/2" = 1'

SITE LOCATION PLAN
SCALE: 1" = 10'

Designed by:	REVISION				APPV
	REV No.	DATE	DESCRIPTION		
E.WOLFF	0	9/2/2025	ISSUED FOR BID		
Drawn by:					
S.VOETTNER					
Checked by:					
D.TROIANOS					

gai consultants



ARLETTA SCOTT WILLIAMS
EXECUTIVE DIRECTOR, ALCOSAN

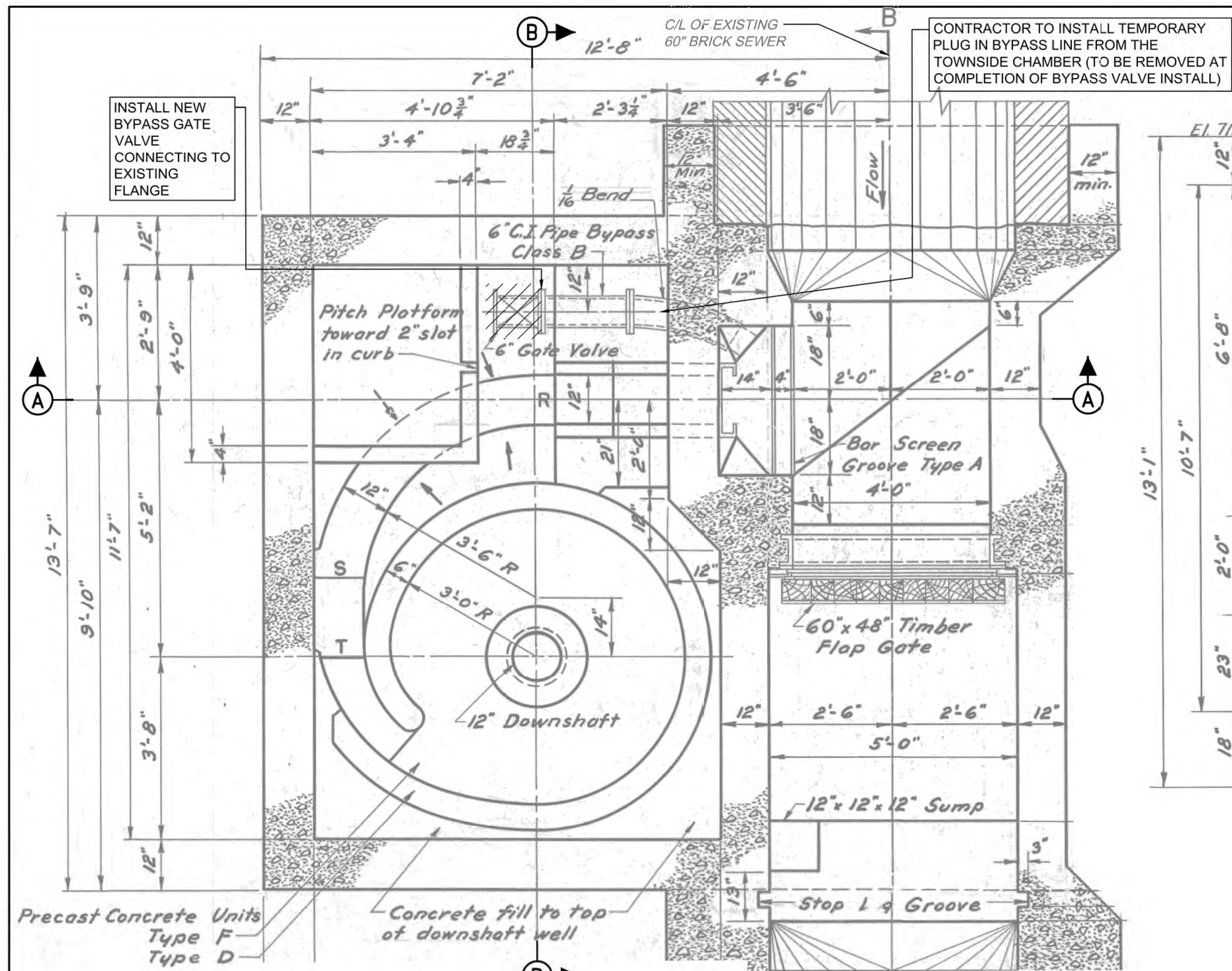
3300 PREBLE AVE.
PITTSBURGH, PA 15233
(412) 766 - 4810

www.alcosan.org

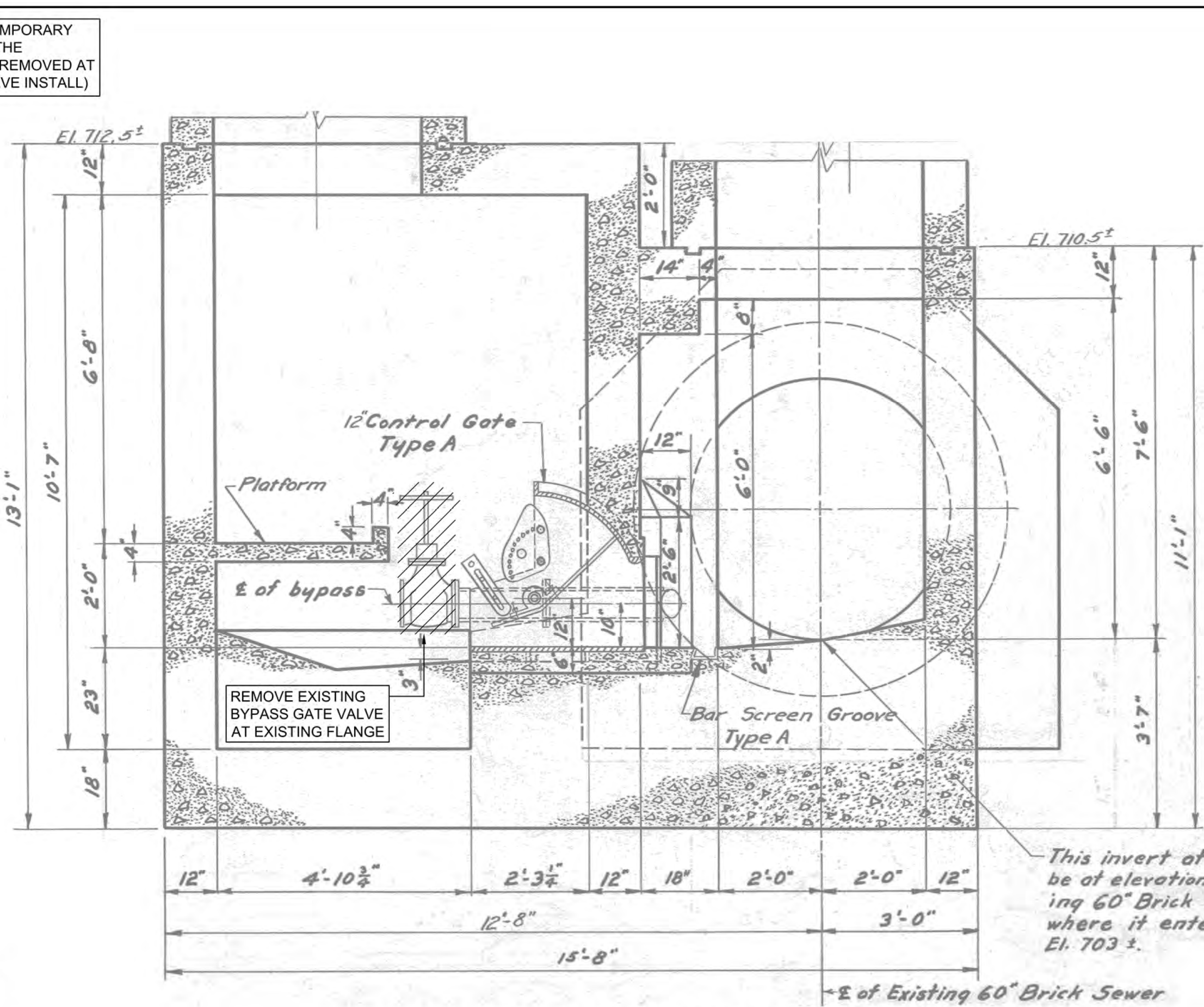
ALLEGHENY COUNTY SANITARY AUTHORITY
REGIONAL CONVEYANCE SYSTEM
MISCELLANEOUS FLAP GATE, SLUICE GATE, AND
VALVE REPLACEMENTS AT VARIOUS LOCATIONS

O-36
BYPASS VALVE REMOVAL
PLANS AND SECTIONS

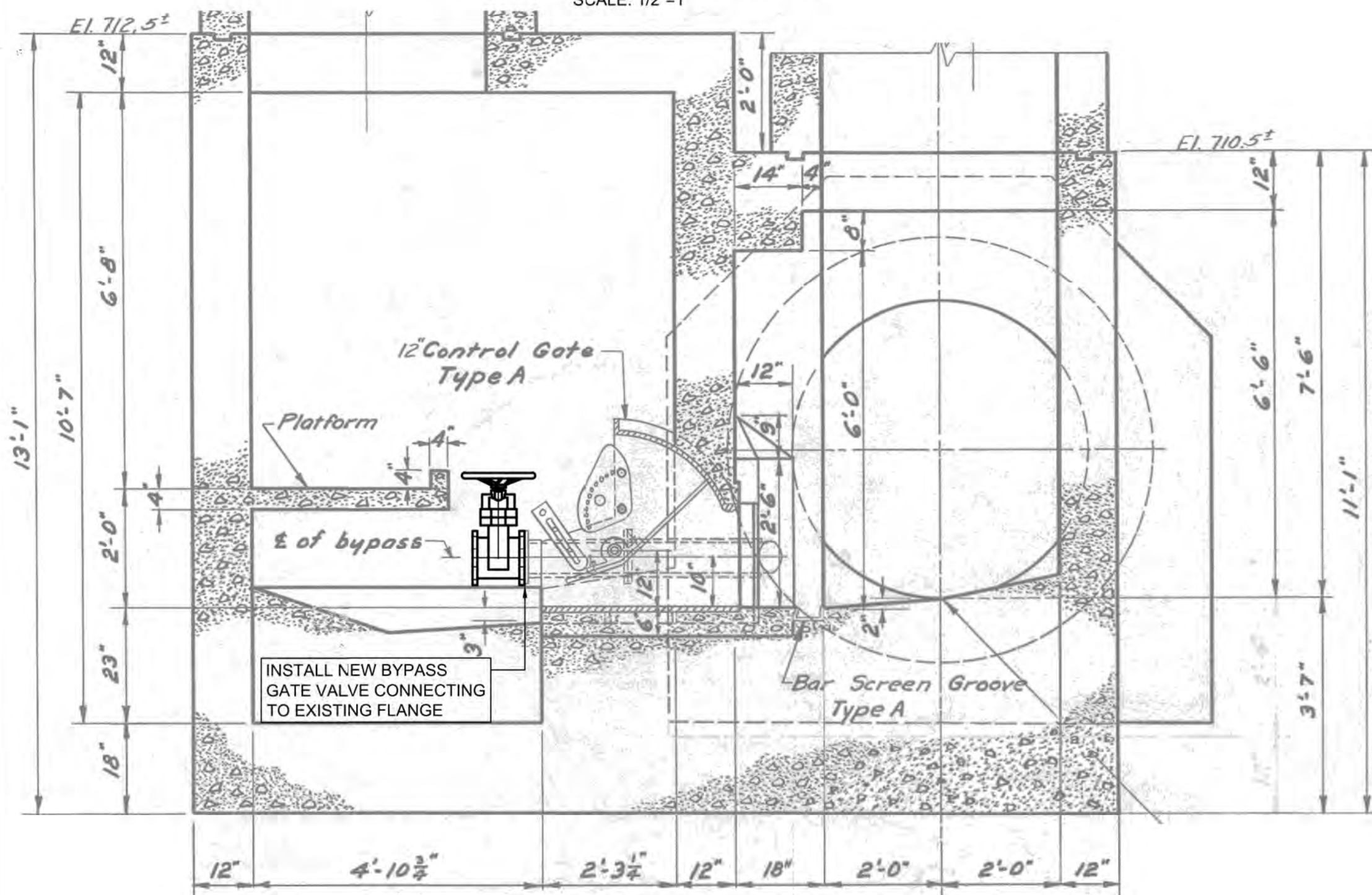
Contract: 1818
CAD File Name: 1818-O-36-PLSC-01.DWG
Date: 06/11/2025
Sheet: 20 of 68



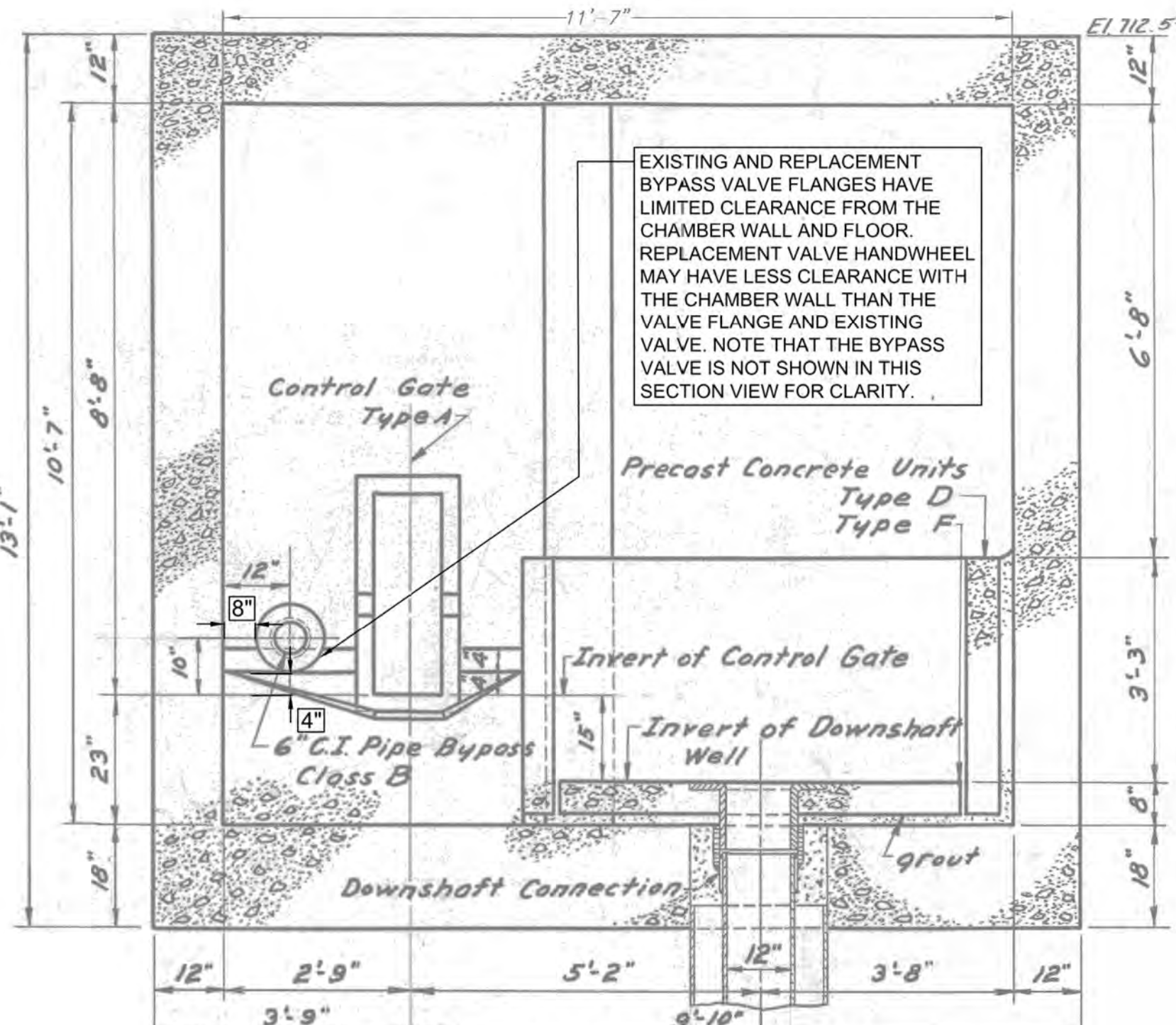
HORIZONTAL SECTION
SCALE: 1/2"=1'



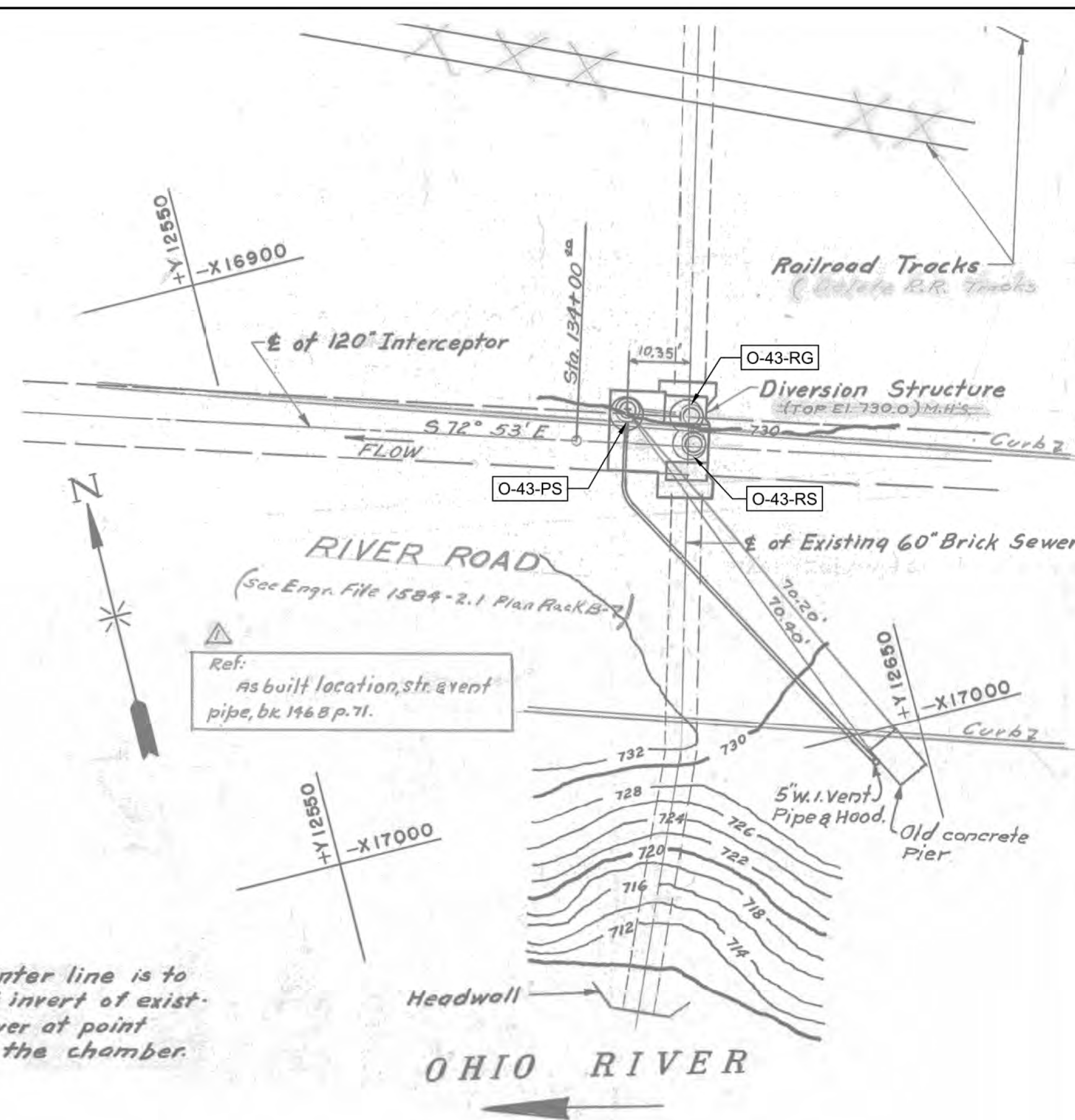
SECTION A-A - DEMOLITION VIEW
SCALE: 1/2"=1'



SECTION A-A - NEW WORK VIEW
SCALE: 1/2"=1'



SECTION B-B
SCALE: 1/2"=1'



SITE LOCATION PLAN
SCALE: 1"=20'



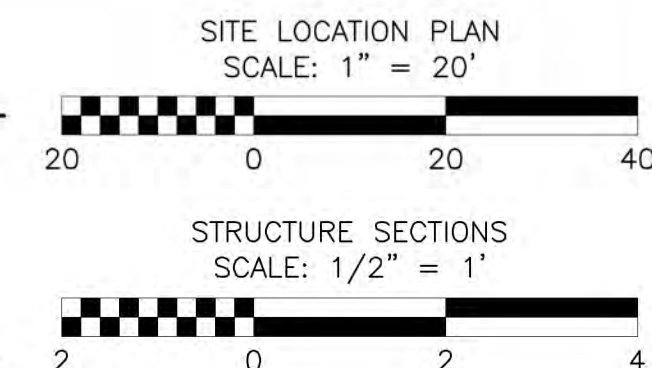
FIELD INSPECTION PHOTOS

LEGEND:

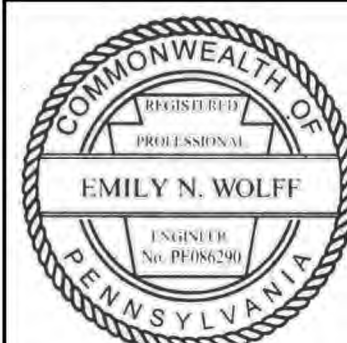
- INDICATES DEMOLITION
- INDICATES NEW WORK

GENERAL NOTES:

- ANY MARKUPS FROM THE ORIGINAL REFERENCE DRAWING, CONTRACT 46, SHEET 25, DATED OCTOBER 5, 1953, WERE CARRIED OVER AND SHOWN IN GRAY AND ALL DEMOLITION AND NEW WORK FOR THIS CONTRACT ARE SHOWN IN BLACK PER THE LEGEND.
- NOTED SCALE OF PLANS, SECTIONS, AND DETAILS IS APPROXIMATE. CONTRACTOR TO FIELD CONFIRM ALL WORKING DIMENSIONS AND COORDINATE ANY DISCREPANCIES WITH CONSTRUCTION MANAGER BEFORE PROCEEDING WITH ANY CONTRACT WORK.
- REFERENCE PROJECT NOTES AND SCOPE OF SUMMARY TABLES SHEET FOR MORE DETAILS ON BYPASS VALVE REPLACEMENT REQUIREMENTS.



DESIGNED BY:	REV. NO.	DATE	REVISION DESCRIPTION	APPV
E. WOLFF	0	9/2/2025	ISSUED FOR BID	
DRAWN BY:				
S. VOETTNER				
CHECKED BY:				
D. TROIANOS				



ARLETTA SCOTT WILLIAMS
EXECUTIVE DIRECTOR, ALCOSAN

3300 PREBLE AVE.
PITTSBURGH, PA 15233
(412) 766 - 4810

www.alcosan.org

ALLEGHENY COUNTY SANITARY AUTHORITY
REGIONAL CONVEYANCE SYSTEM
MISCELLANEOUS FLAP GATE, SLUICE GATE, AND
VALVE REPLACEMENTS AT VARIOUS LOCATIONS

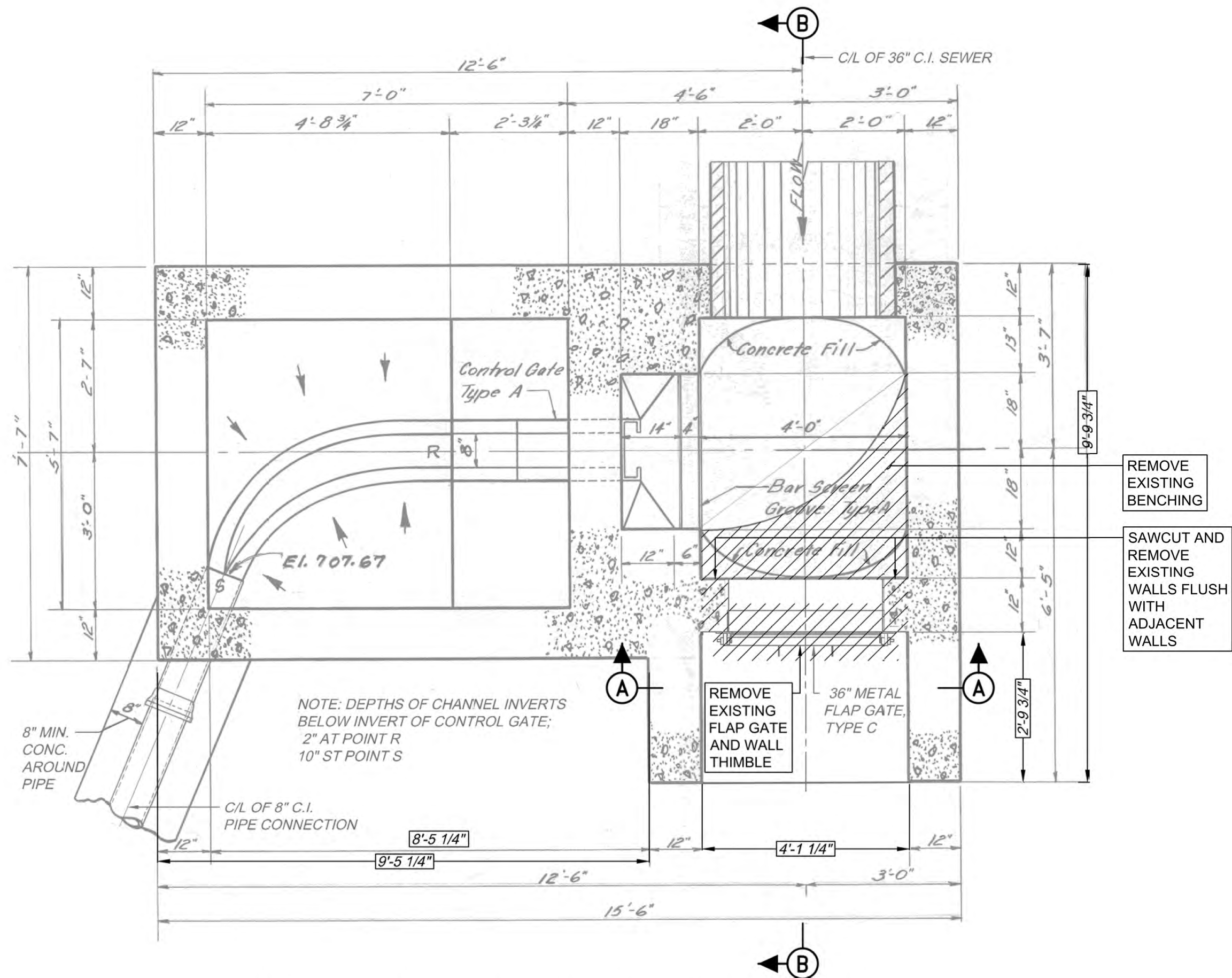
O-43
BYPASS VALVE REPLACEMENT
PLANS AND SECTIONS

Contract: 1818

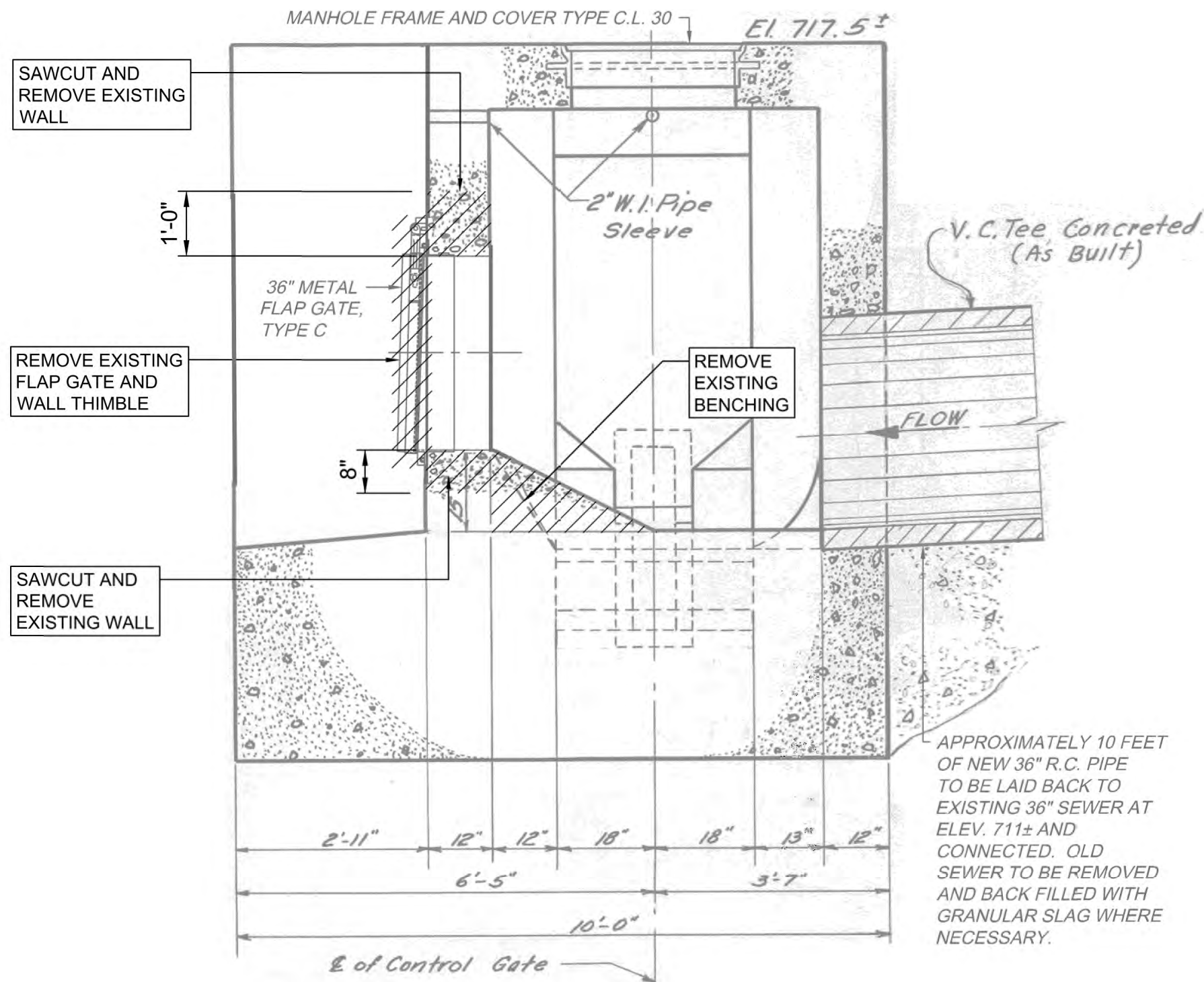
CAD File Name: 1818-O-43-PLSC-01.DWG

Date: 06/11/2025

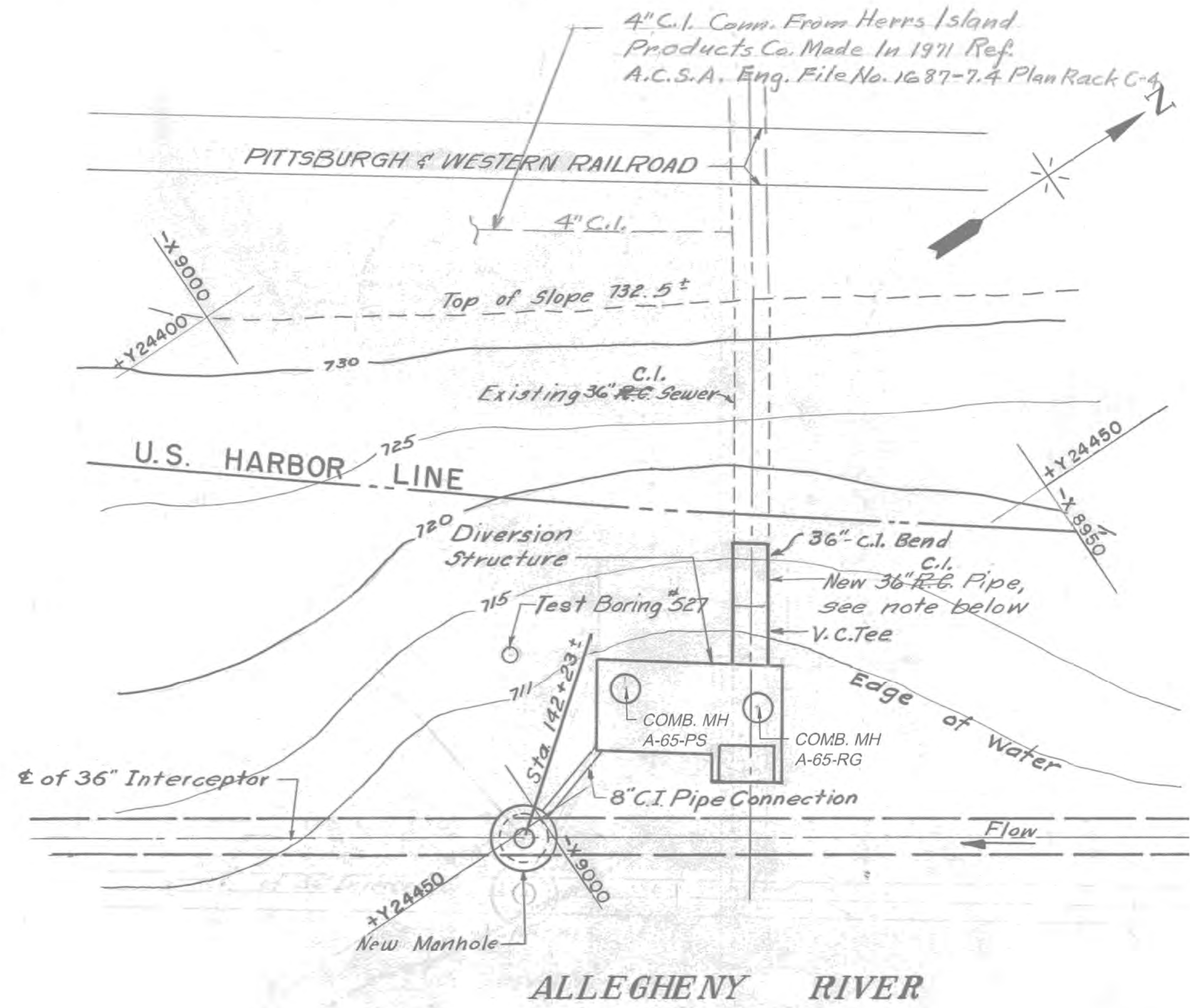
Sheet: 21 of 68



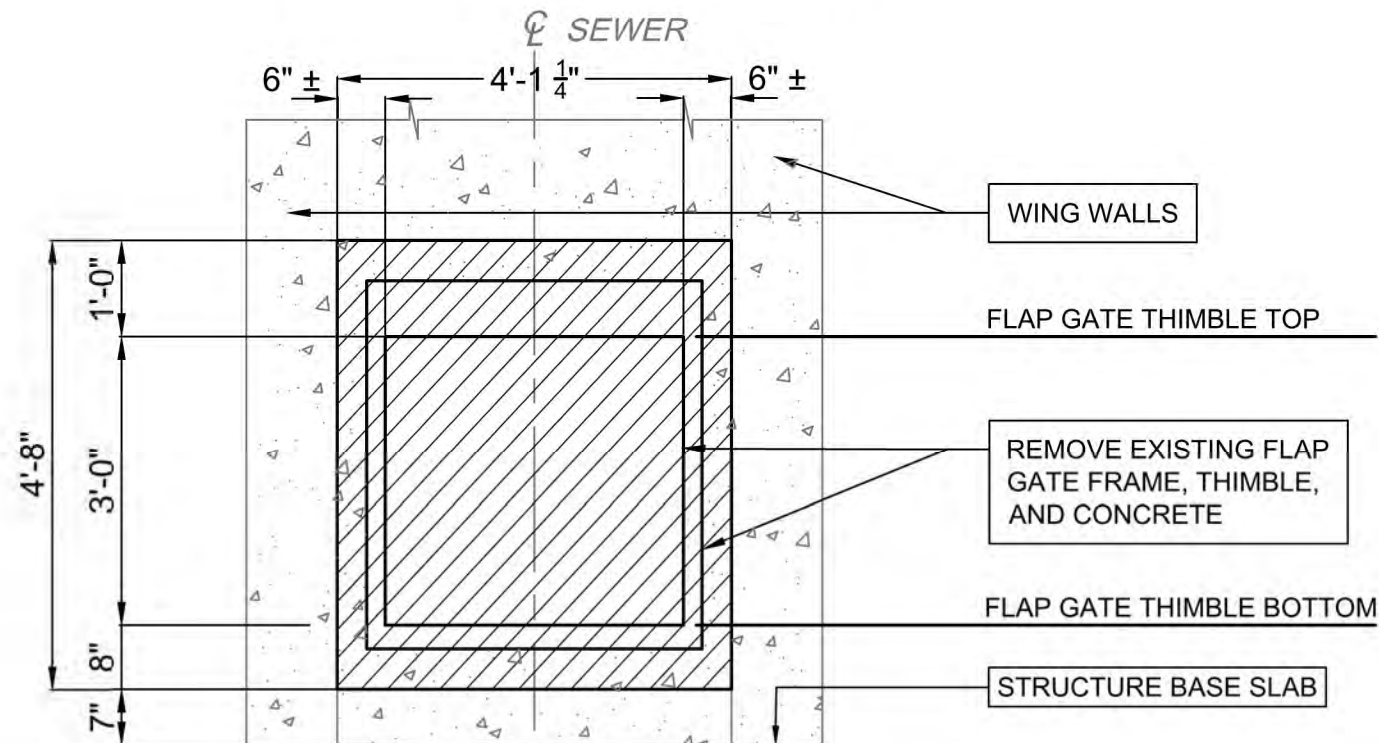
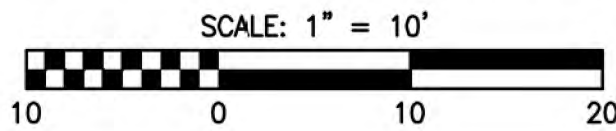
HORIZONTAL SECTION - DEMOLITION WORK
SCALE: 1/2" = 1'



SECTION B-B - DEMOLITION WORK
SCALE: 1/2" = 1'

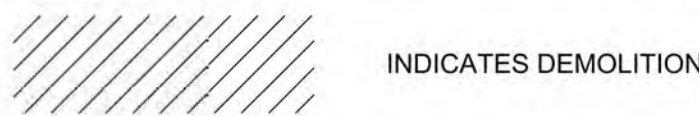


SITE LOCATION PLAN



SECTION A-A - DEMOLITION WORK
SCALE: 1/2" = 1'

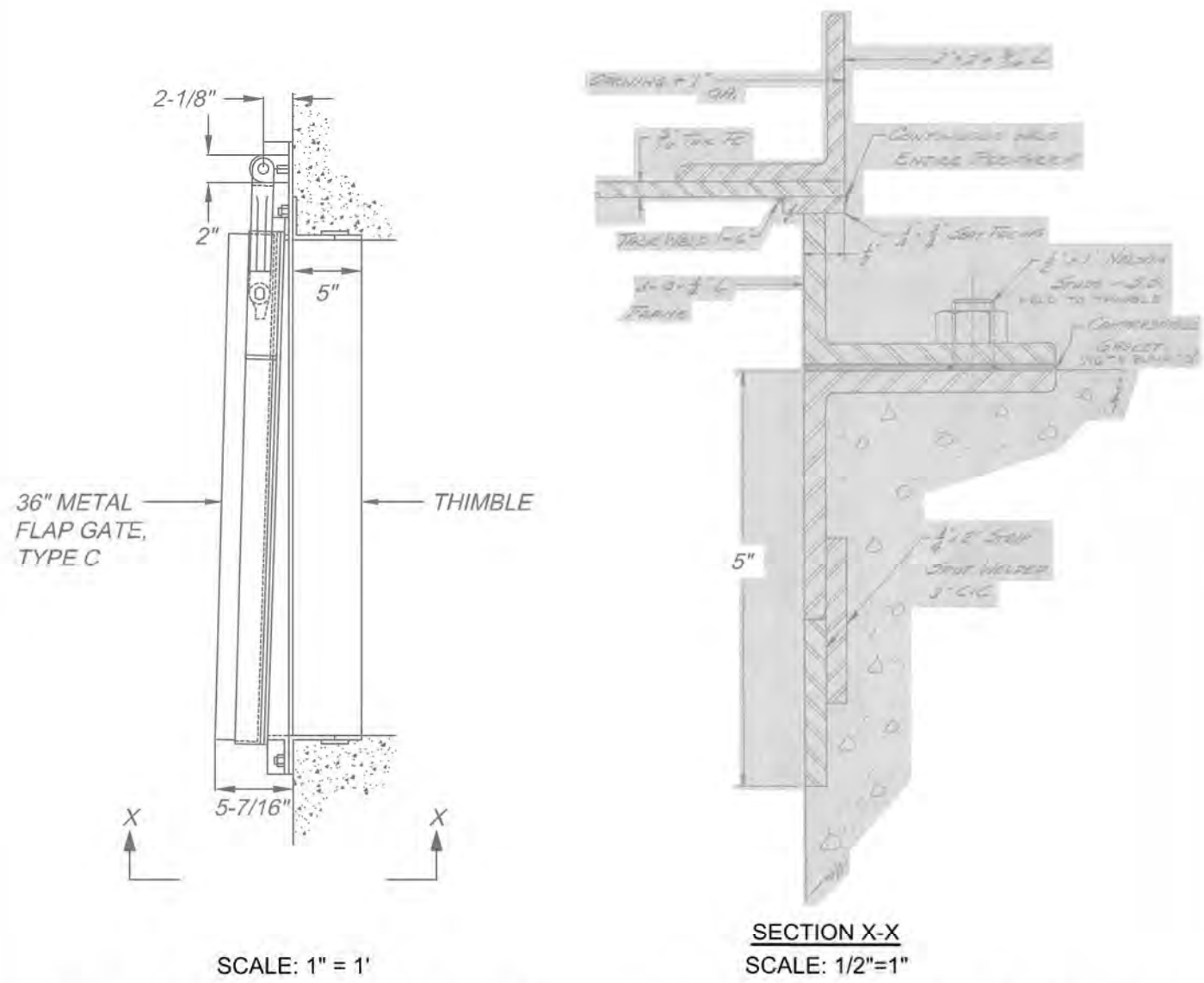
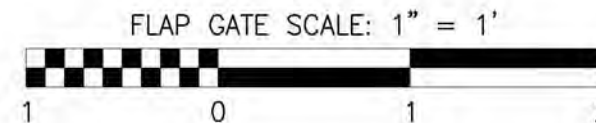
LEGEND:



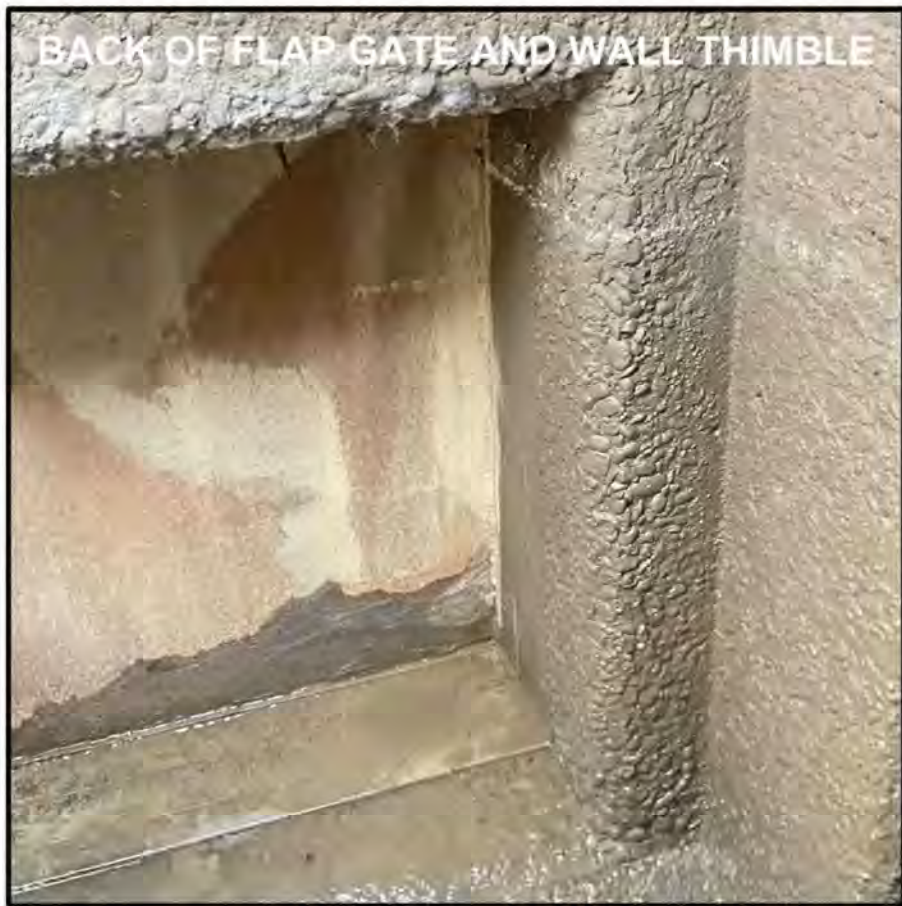
GENERAL NOTES:

1. ANY MARKUPS FROM THE ORIGINAL REFERENCE DRAWING, CONTRACT 47, SHEET 37, DATED MARCH 31, 1954, WERE CARRIED OVER AND SHOWN IN GRAY AND ALL DEMOLITION AND NEW WORK FOR THIS CONTRACT ARE SHOWN IN BLACK PER THE LEGEND.
2. REFERENCE PROJECT NOTES AND SCOPE OF SUMMARY TABLES SHEET FOR MORE DETAILS ON BYPASS VALVE REPLACEMENT REQUIREMENTS.

HORIZONTAL SECTION, AND SECTIONS A-A AND B-B
SCALE: 1/2" = 1'



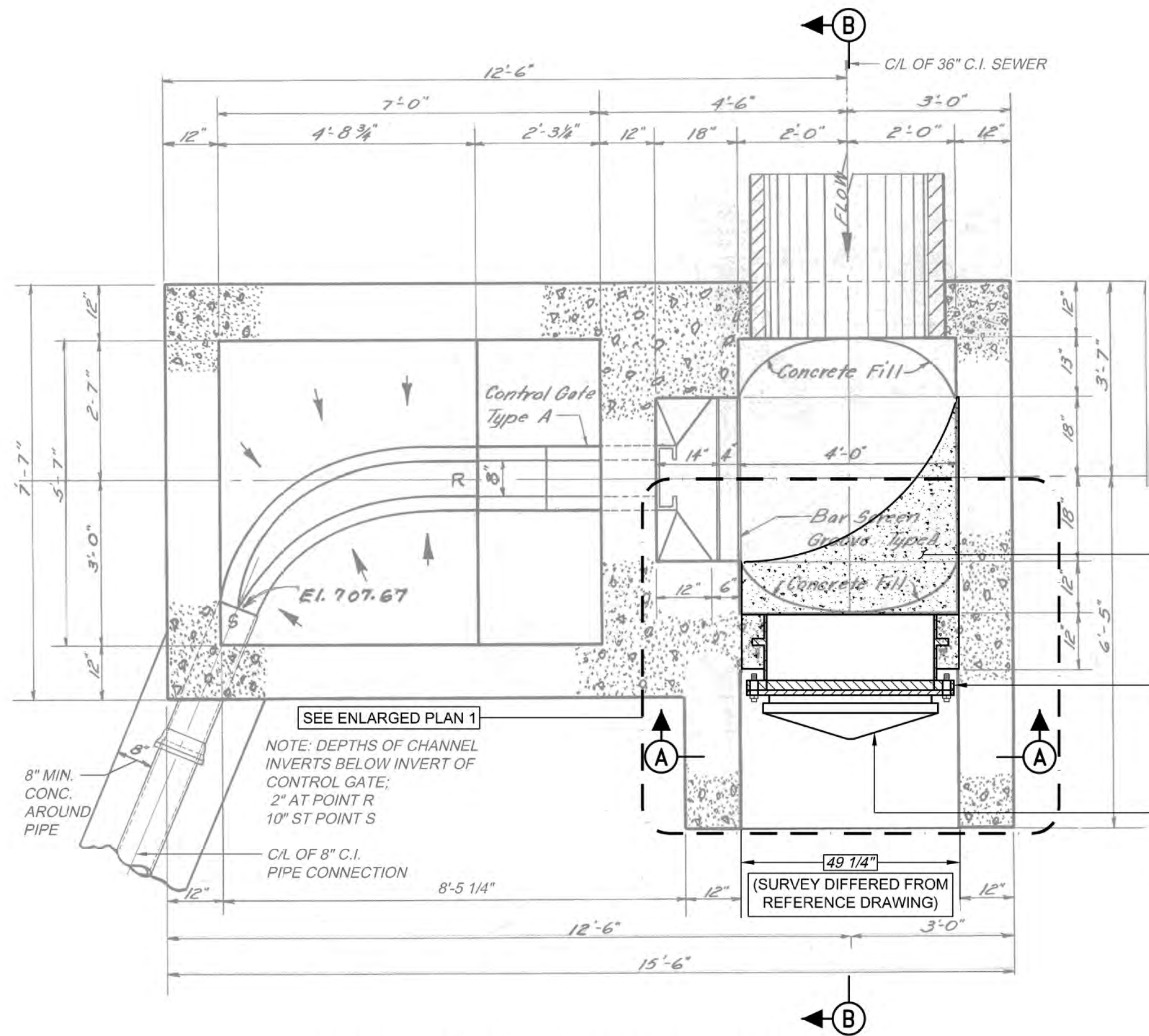
FLAP GATE & WALL THIMBLE - DEMOLITION WORK
FOR REFERENCE ONLY



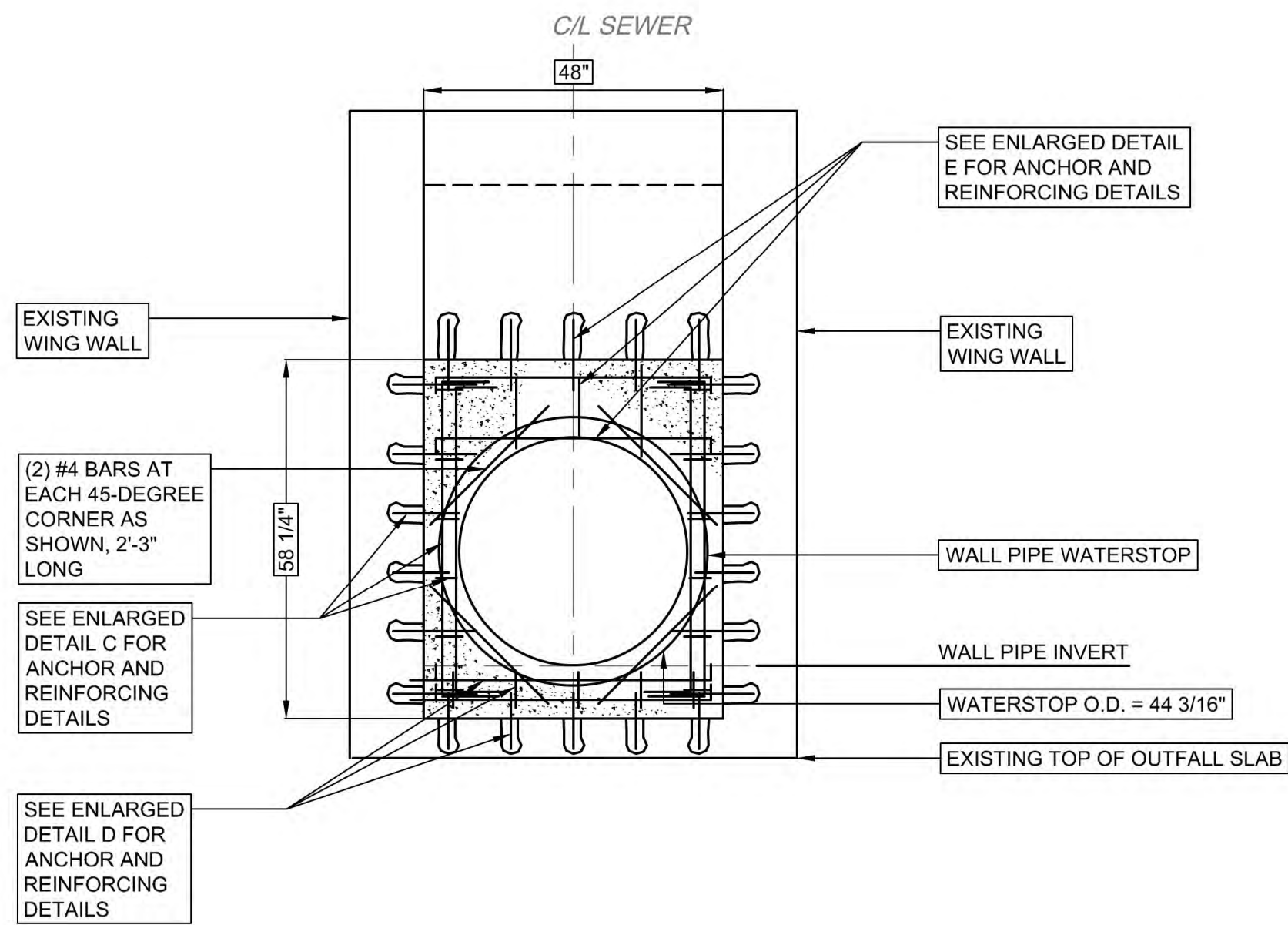
FIELD INSPECTION PHOTOS

Designed by: E.WOLFF	REVISION				APPV
	REV No.	DATE	DESCRIPTION		
Drawn by: S.VOETTNER	0	9/2/2025	ISSUED FOR BID		
Checked by: D.TROIANOS					

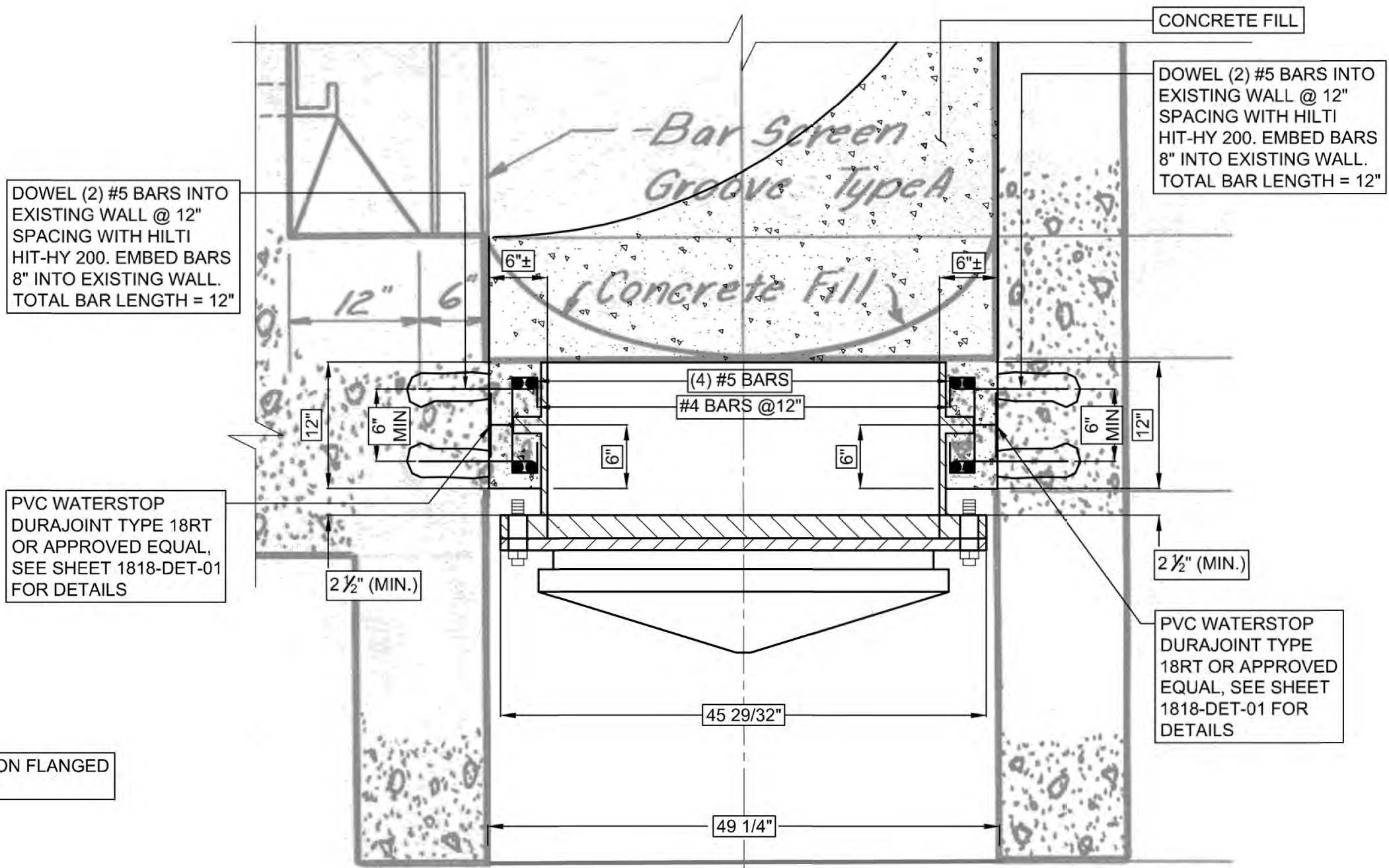
			ARLETTA SCOTT WILLIAMS EXECUTIVE DIRECTOR, ALCOSAN 3300 PREBLE AVE. PITTSBURGH, PA 15233 (412) 766 - 4810 www.alcosan.org	ALLEGHENY COUNTY SANITARY AUTHORITY REGIONAL CONVEYANCE SYSTEM MISCELLANEOUS FLAP GATE, SLUICE GATE, AND VALVE REPLACEMENTS AT VARIOUS LOCATIONS		Contract: 1818
				A-65 FLAP GATE REPLACEMENT DEMOLITION WORK PLANS AND SECTIONS		CAD File Name: 1818-A-65-PLSC-01.DWG Date: 06/11/2025 Sheet: 23 of 68



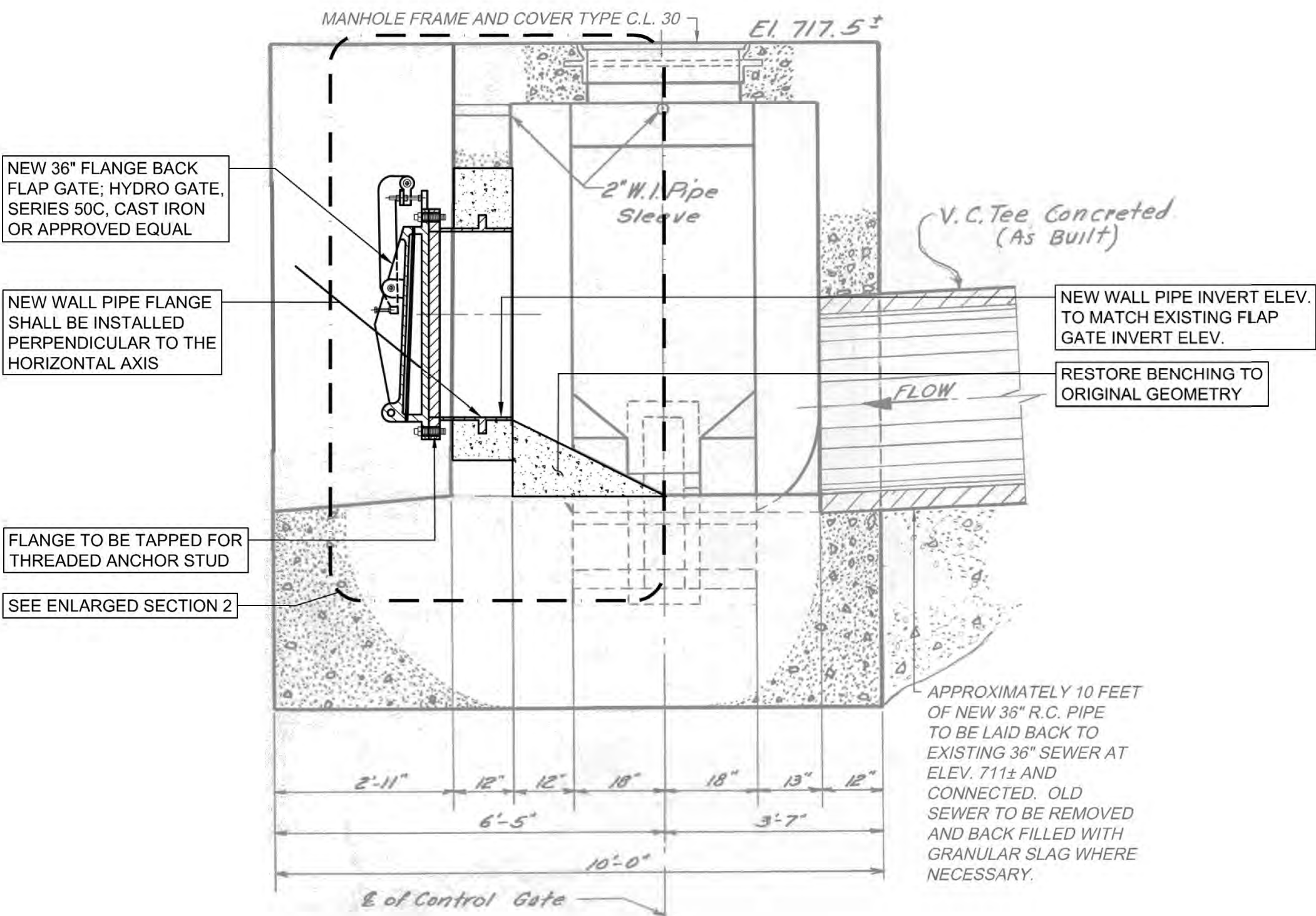
HORIZONTAL SECTION - NEW WORK
SCALE: 1/2"=1'



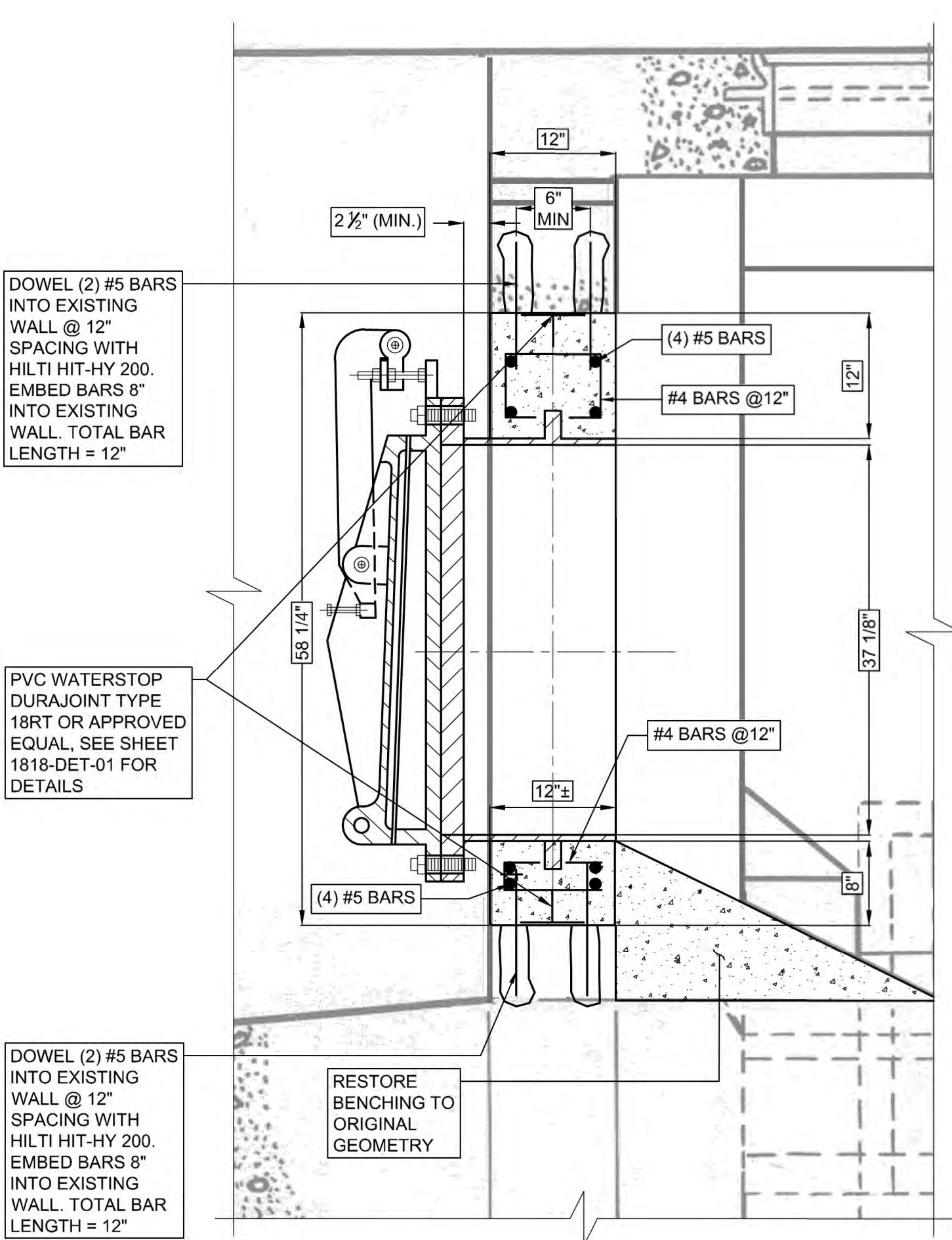
SECTION A-A - NEW WORK
SCALE: 1/2"=1'



ENLARGED PLAN 1
SCALE: 1"=1'

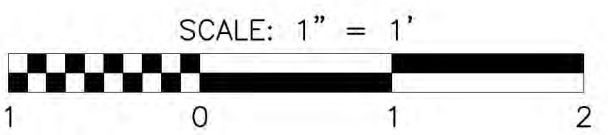
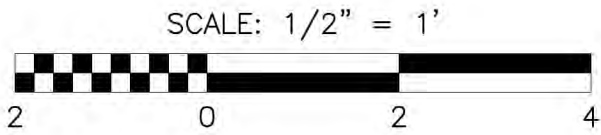


SECTION B-B - NEW WORK
SCALE: 1/2"=1'

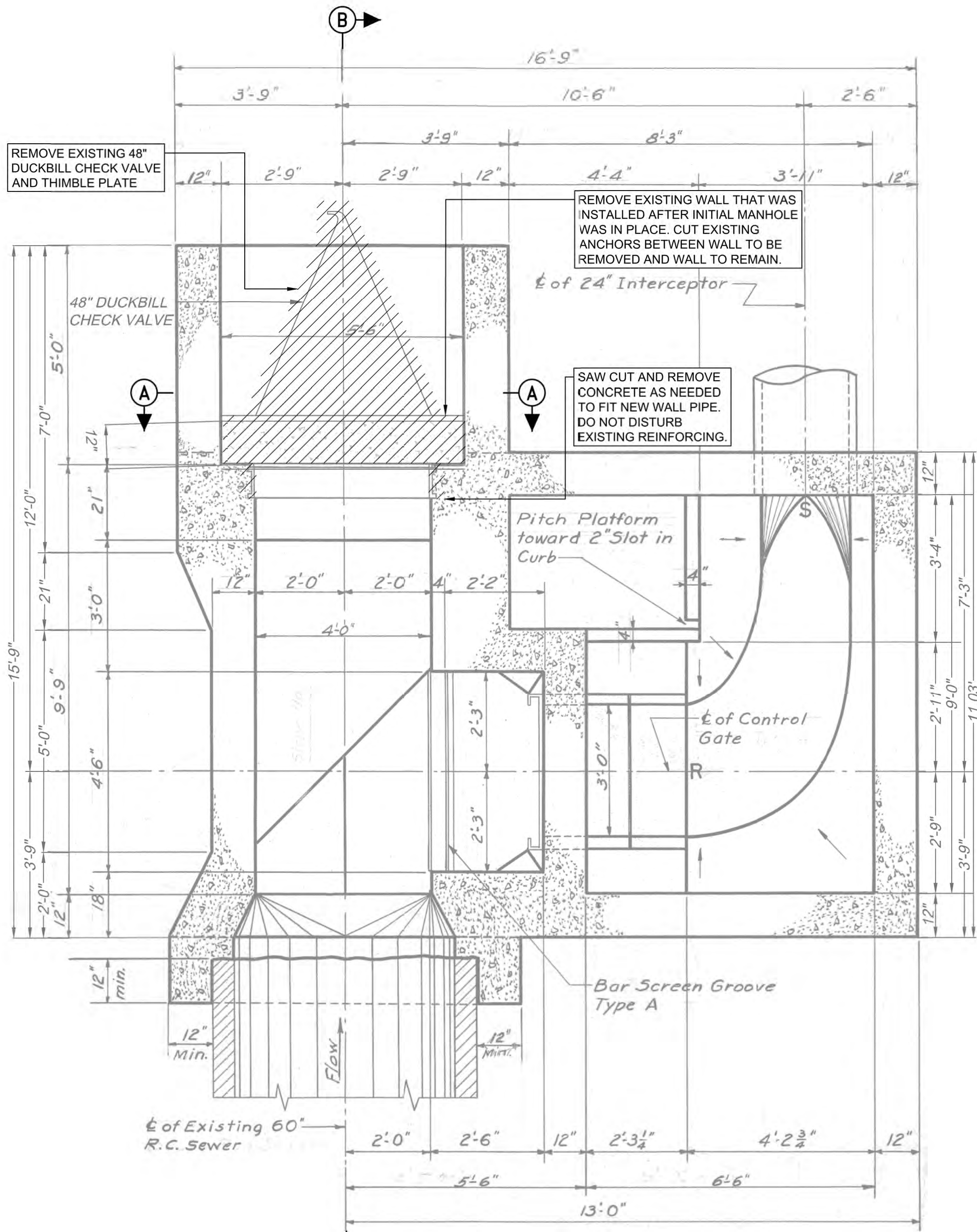


ENLARGED SECTION 2
SCALE: 1"=1'

- GENERAL NOTES:**
1. ANY MARKUPS FROM THE ORIGINAL REFERENCE DRAWING, CONTRACT 47, SHEET 37, DATED MARCH 31, 1954, WERE CARRIED OVER AND SHOWN IN GRAY AND ALL DEMOLITION AND NEW WORK FOR THIS CONTRACT ARE SHOWN IN BLACK PER THE LEGEND.
 2. NOTED SCALE OF PLANS, SECTIONS, AND DETAILS IS APPROXIMATE. CONTRACTOR TO FIELD CONFIRM ALL WORKING DIMENSIONS AND COORDINATE ANY DISCREPANCIES WITH CONSTRUCTION MANAGER BEFORE PROCEEDING WITH ANY CONTRACT WORK.
 3. REFERENCE PROJECT NOTES AND SCOPE OF SUMMARY TABLES SHEET FOR MORE DETAILS ON BYPASS VALVE REPLACEMENT REQUIREMENTS.



Designed by: E.WOLFF	REVISION									ARLETTA SCOTT WILLIAMS EXECUTIVE DIRECTOR, ALCOSAN	ALLEGHENY COUNTY SANITARY AUTHORITY REGIONAL CONVEYANCE SYSTEM MISCELLANEOUS FLAP GATE, SLUICE GATE, AND VALVE REPLACEMENTS AT VARIOUS LOCATIONS		Contract: 1818
Drawn by: S.VOETTNER	REV No.	DATE	DESCRIPTION	APPV							A-65 FLAP GATE REPLACEMENT NEW WORK PLANS AND SECTIONS		CAD File Name: 1818-A-65-PLSC-02.DWG
Checked by: D.TROIANOS			ISSUED FOR BID										Date: 06/11/2025
													Sheet: 24 of 68

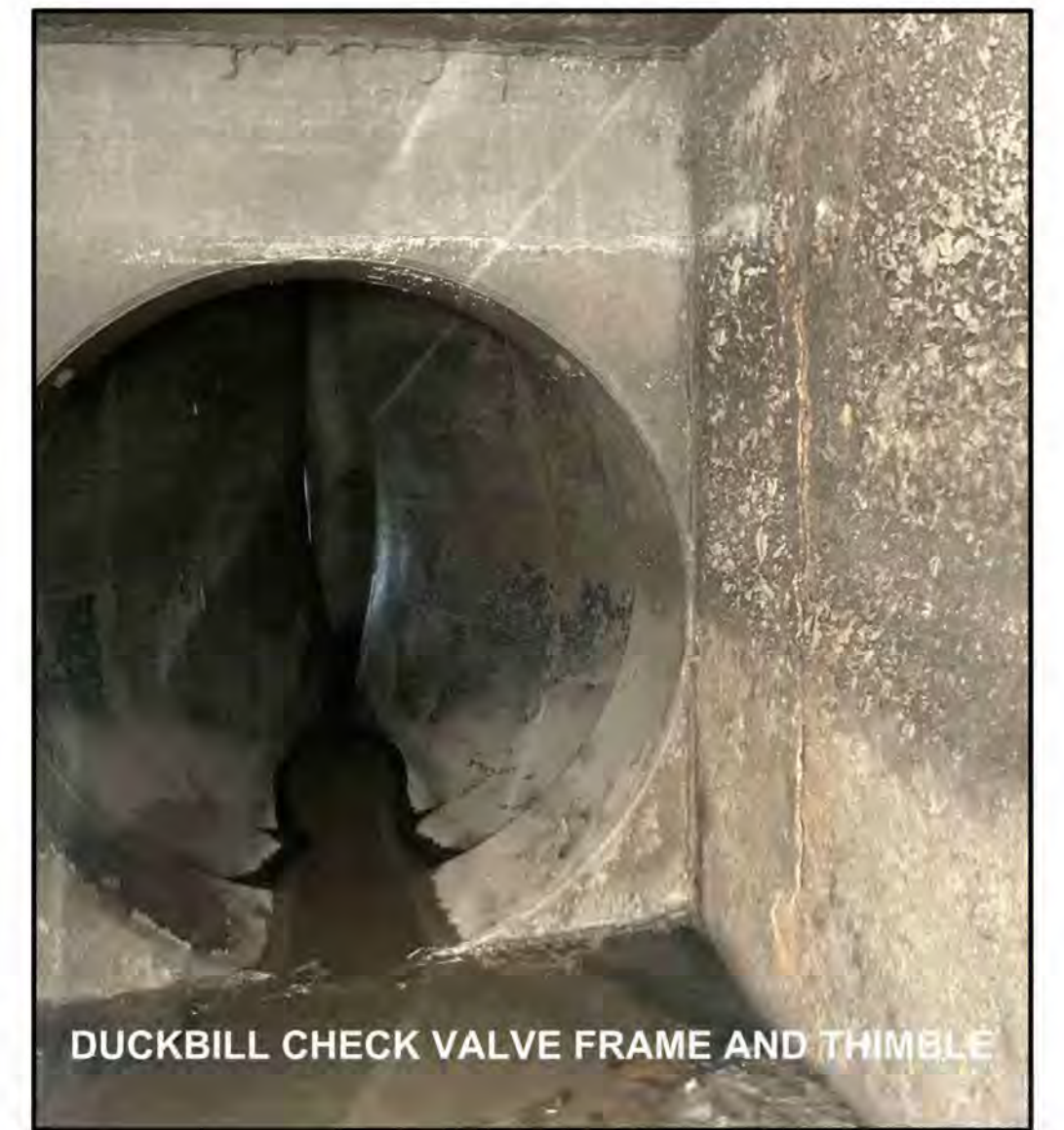
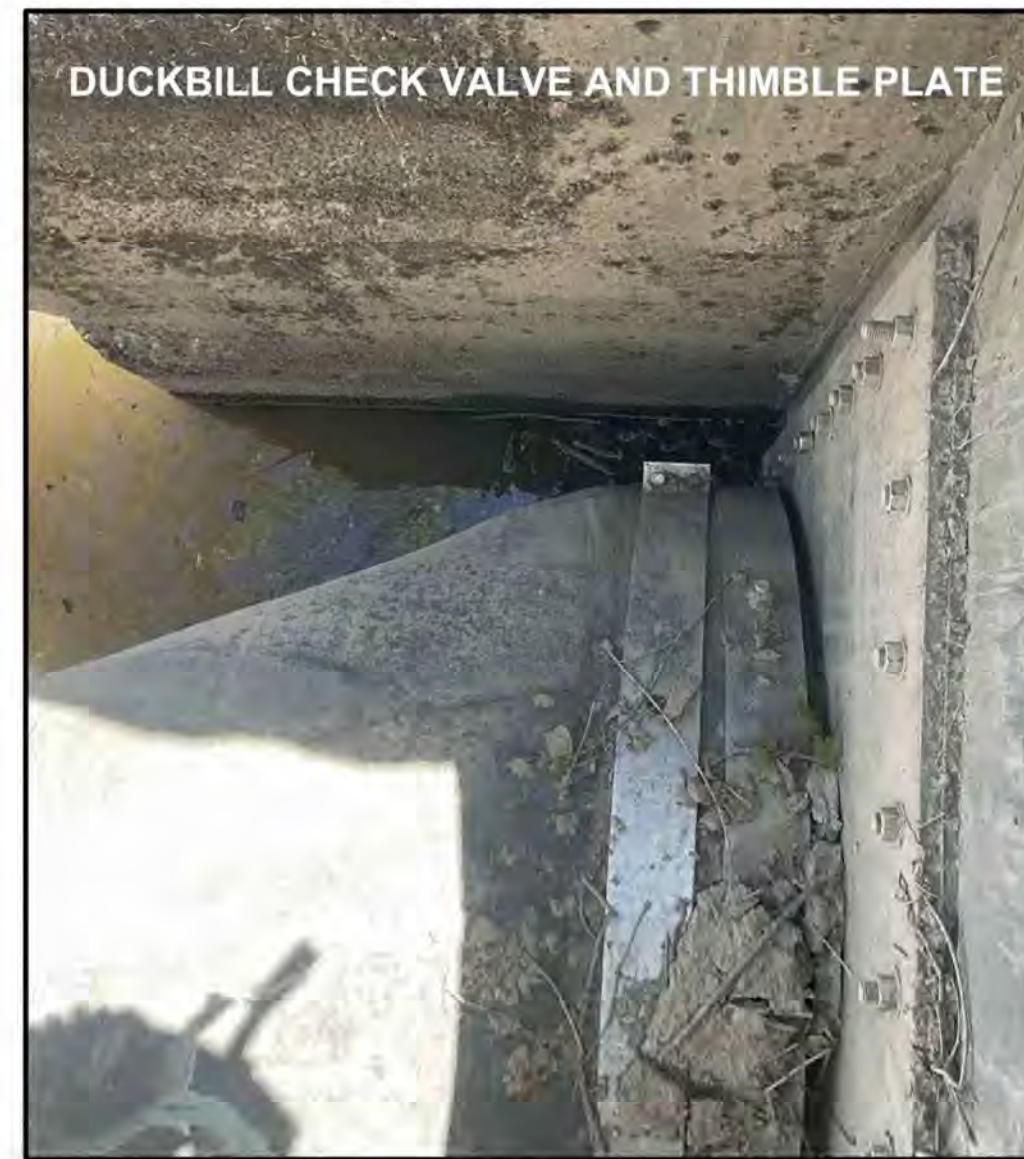
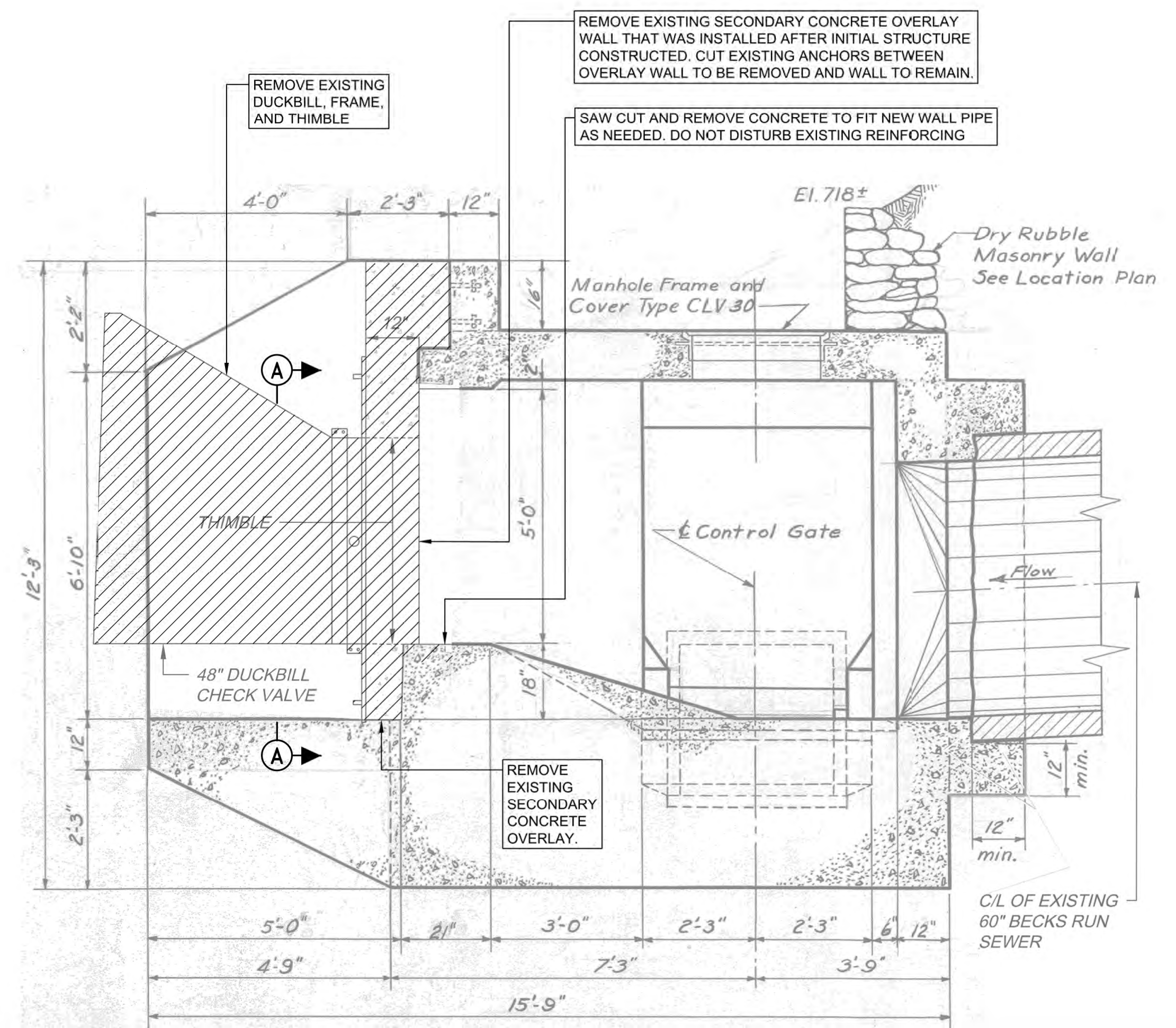
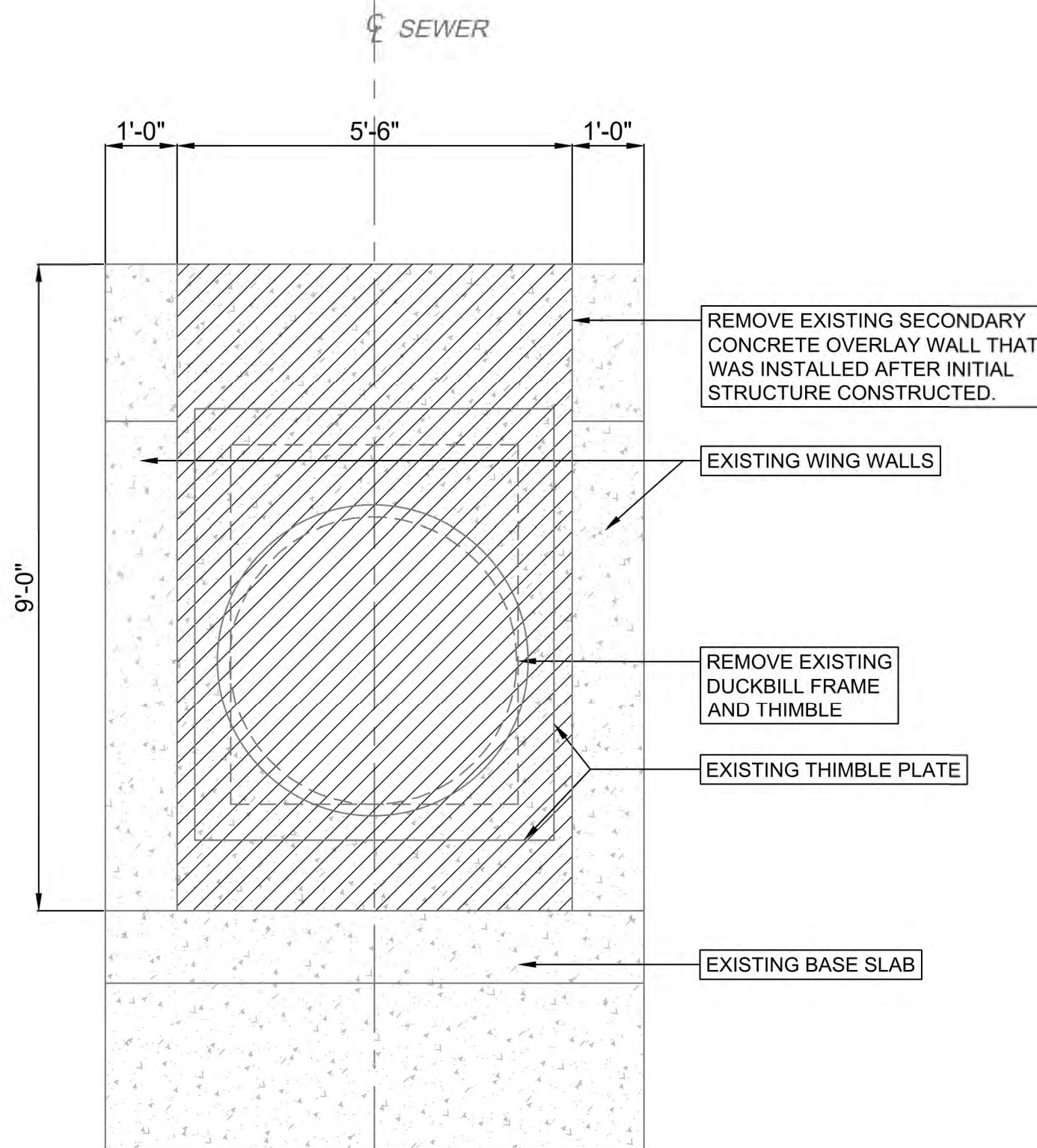
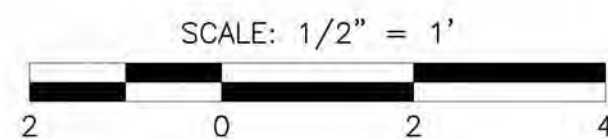


LEGEND:

INDICATES DEMOLITION

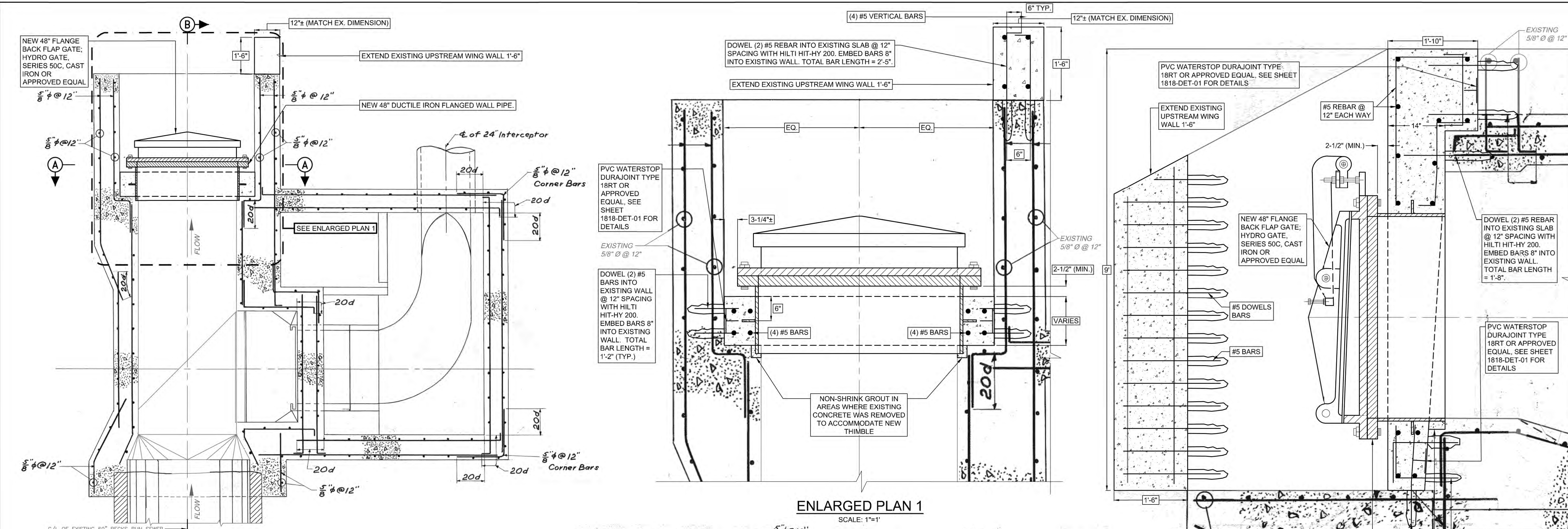
GENERAL NOTES:

1. ANY MARKUPS FROM THE ORIGINAL REFERENCE DRAWING, CONTRACT 51, SHEET 27, DATED JUNE 19, 1953 (REVISED JANUARY 15, 1981) AND CONTRACT 1314, SHEET 13, DATED AUGUST 23, 2005, WERE CARRIED OVER AND SHOWN IN GRAY AND ALL DEMOLITION AND NEW WORK FOR THIS CONTRACT ARE SHOWN IN BLACK PER THE LEGEND.
2. NOTED SCALE OF PLANS, SECTIONS, AND DETAILS IS APPROXIMATE. CONTRACTOR TO FIELD CONFIRM ALL WORKING DIMENSIONS AND COORDINATE ANY DISCREPANCIES WITH CONSTRUCTION MANAGER BEFORE PROCEEDING WITH ANY CONTRACT WORK.
3. REFERENCE PROJECT NOTES AND SCOPE OF SUMMARY TABLES SHEET FOR MORE DETAILS ON FLAP GATE AND TIDE FLEX REPLACEMENT REQUIREMENTS.
4. SEE EROSION AND SEDIMENT CONTROL PLAN FOR SITE PLAN LOCATION.

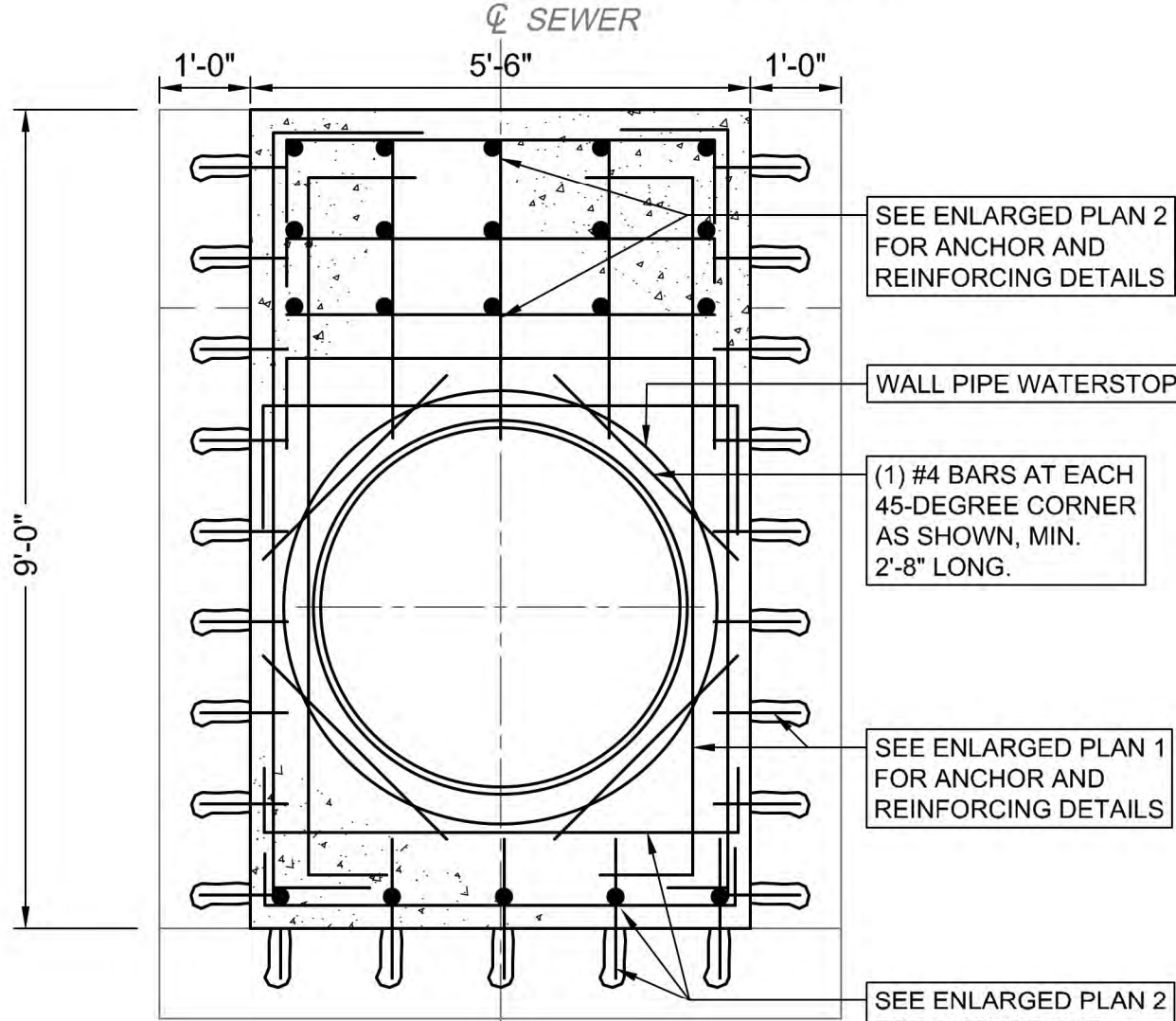


FIELD INSPECTION PHOTOS

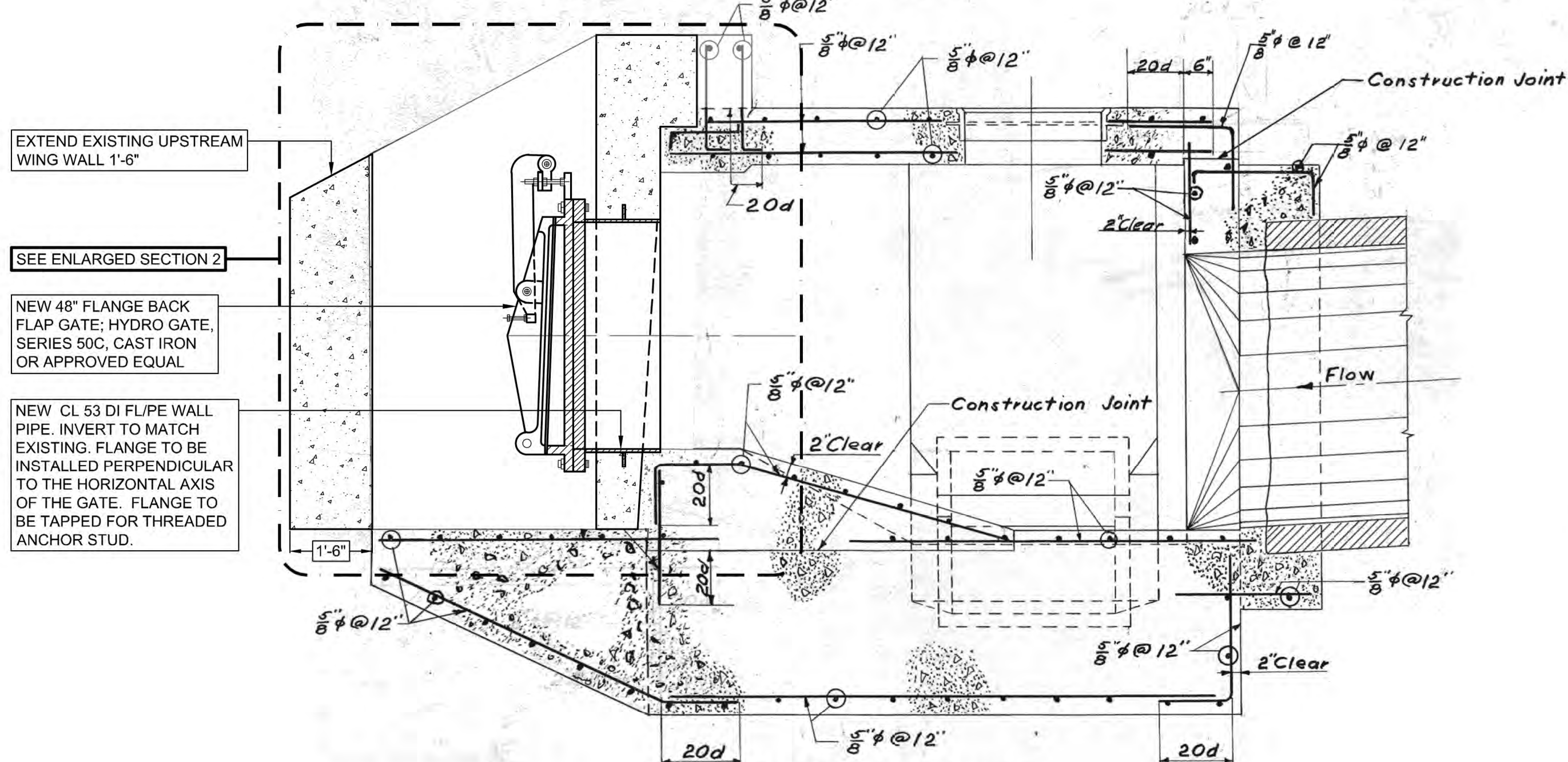
Designed by:	REVISION								ARLETTA SCOTT WILLIAMS EXECUTIVE DIRECTOR, ALCOSAN	3300 PREBLE AVE. PITTSBURGH, PA 15233 (412) 766 - 4810 www.alcosan.org	ALLEGHENY COUNTY SANITARY AUTHORITY REGIONAL CONVEYANCE SYSTEM MISCELLANEOUS FLAP GATE, SLUICE GATE, AND VALVE REPLACEMENTS AT VARIOUS LOCATIONS M-34 FLAP GATE/TIDEFLEX REPLACEMENT DEMOLITION WORK PLANS AND SECTIONS	Contract:
E.WOLFF	REV No.	DATE	DESCRIPTION	APPV								1818
Drawn by:	0	9/2/2025	ISSUED FOR BID									CAD File Name:
S.VOETTINER												1818-M-34-PLSC-01.DWG
Checked by:												Date:
D.TROIANOS					06/11/2025							
						Sheet:					25 of 68	



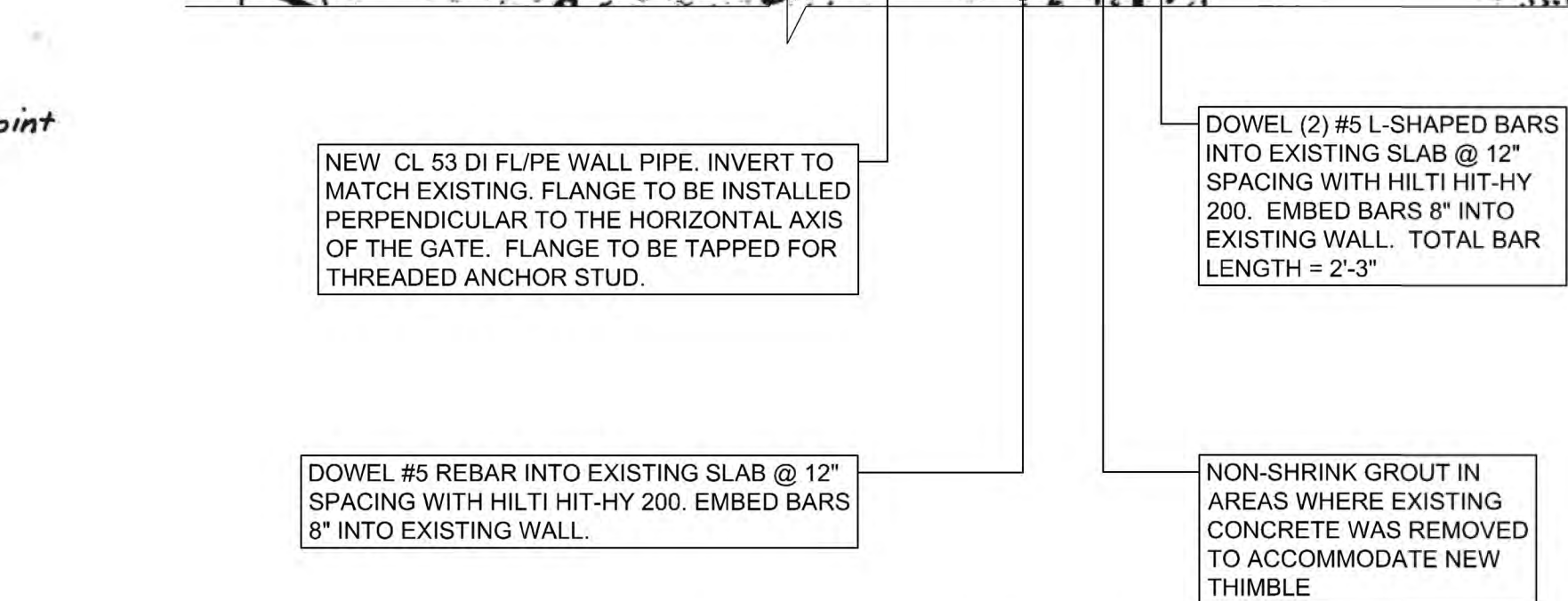
HORIZONTAL SECTION - NEW WORK
SCALE: 1/2"=1'



SECTION A-A - NEW WORK
SCALE: 1/2"=1'



SECTION B-B - NEW WORK
SCALE: 1/2"=1'

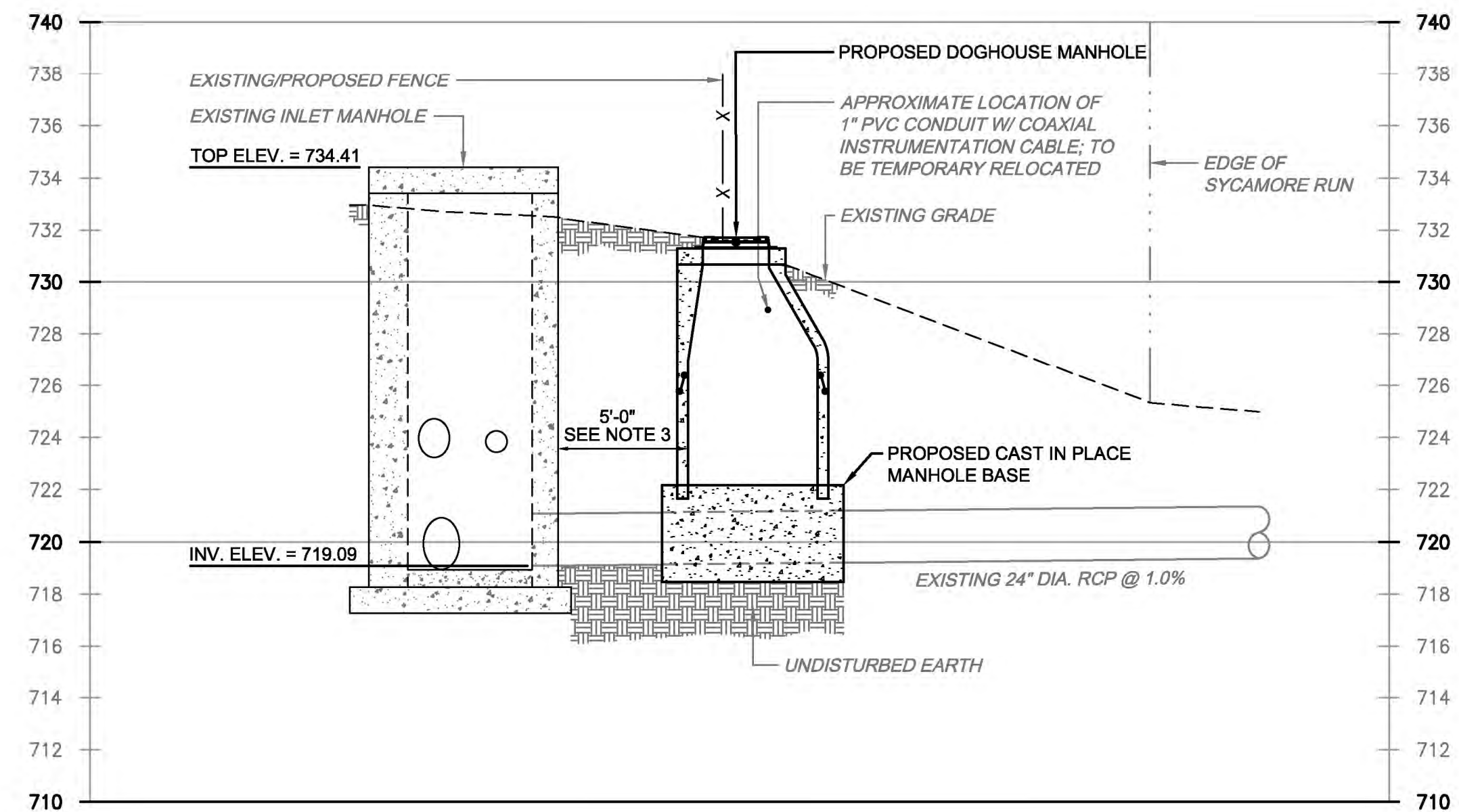


ENLARGED SECTION 2
SCALE: 1"=1'

- GENERAL NOTES:**
1. ANY MARKUPS FROM THE ORIGINAL REFERENCE DRAWING, CONTRACT 51, SHEET 27, DATED JUNE 19, 1953 (REVISED JANUARY 15, 1981) AND CONTRACT 1314, SHEET 13, DATED AUGUST 23, 2005, WERE CARRIED OVER AND SHOWN IN GRAY AND ALL DEMOLITION AND NEW WORK FOR THIS CONTRACT ARE SHOWN IN BLACK PER THE LEGEND.
 2. NOTED SCALE OF PLANS, SECTIONS, AND DETAILS IS APPROXIMATE. CONTRACTOR TO FIELD CONFIRM ALL WORKING DIMENSIONS AND COORDINATE ANY DISCREPANCIES WITH CONSTRUCTION MANAGER BEFORE PROCEEDING WITH ANY CONTRACT WORK.
 3. REFERENCE PROJECT NOTES AND SCOPE OF SUMMARY TABLES SHEET FOR MORE DETAILS ON FLAP GATE AND TIDE FLEX REPLACEMENT REQUIREMENTS.



Designed by: E.WOLFF	REV No.	DATE	REVISION DESCRIPTION	APPV				ARLETTA SCOTT WILLIAMS EXECUTIVE DIRECTOR, ALCOSAN	3300 PREBLE AVE. PITTSBURGH, PA 15233 (412) 766 - 4810 www.alcosan.org	ALLEGHENY COUNTY SANITARY AUTHORITY REGIONAL CONVEYANCE SYSTEM MISCELLANEOUS FLAP GATE, SLUICE GATE, AND VALVE REPLACEMENTS AT VARIOUS LOCATIONS	Contract: 1818
Drawn by: S.VOETTNER C.SZCZYPINSKI											CAD File Name: 1818-M-34-PLSC-02.DWG
Checked by: D.TROIANOS											Date: 06/11/2025
											Sheet: 26 of 68

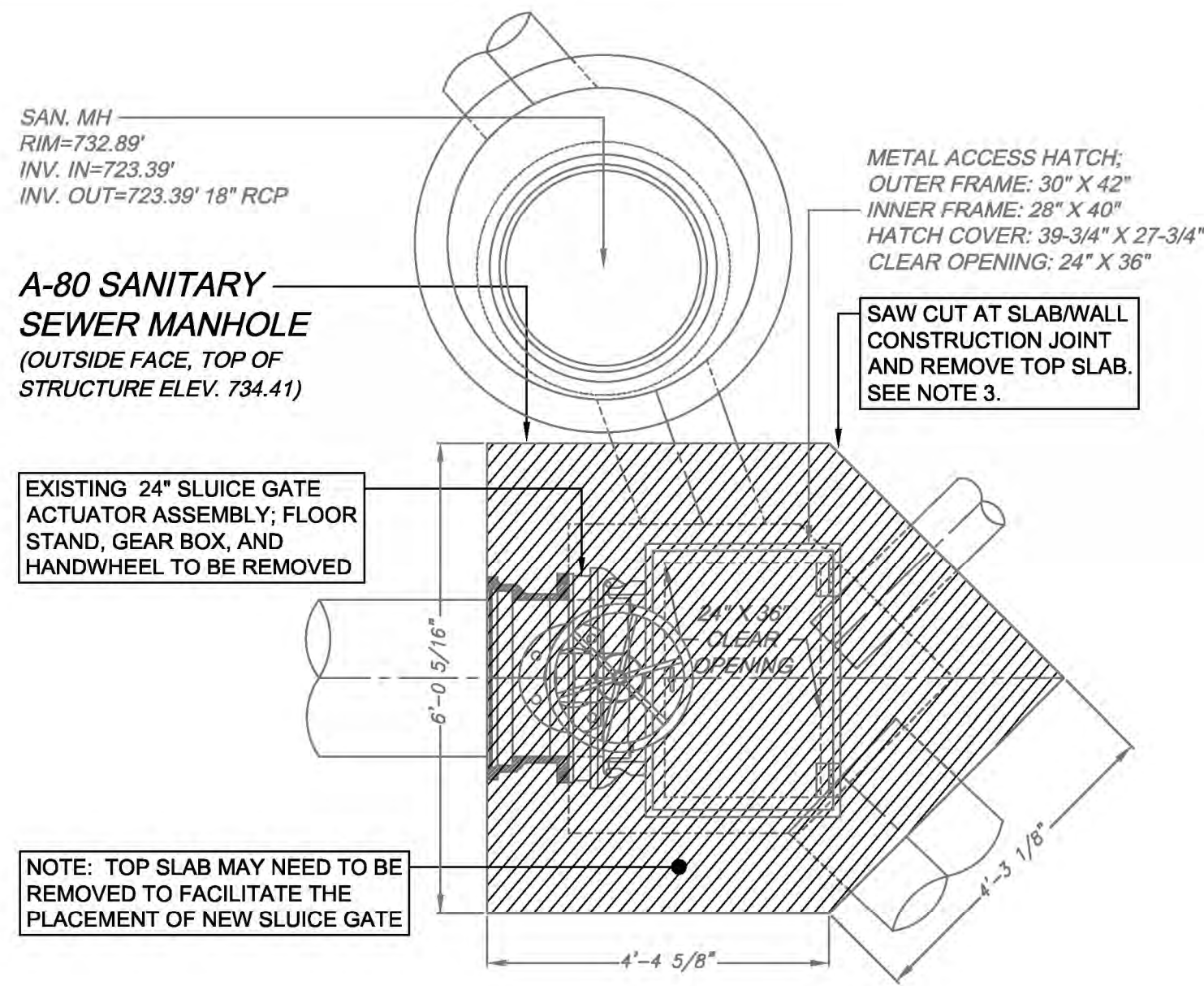


1. EXISTING SITE CONDITIONS SHOWN PER FIELD SURVEY PERFORMED BY MONALOH BASIN ENGINEERS, 04-15-2025 AND 07-10-2025.

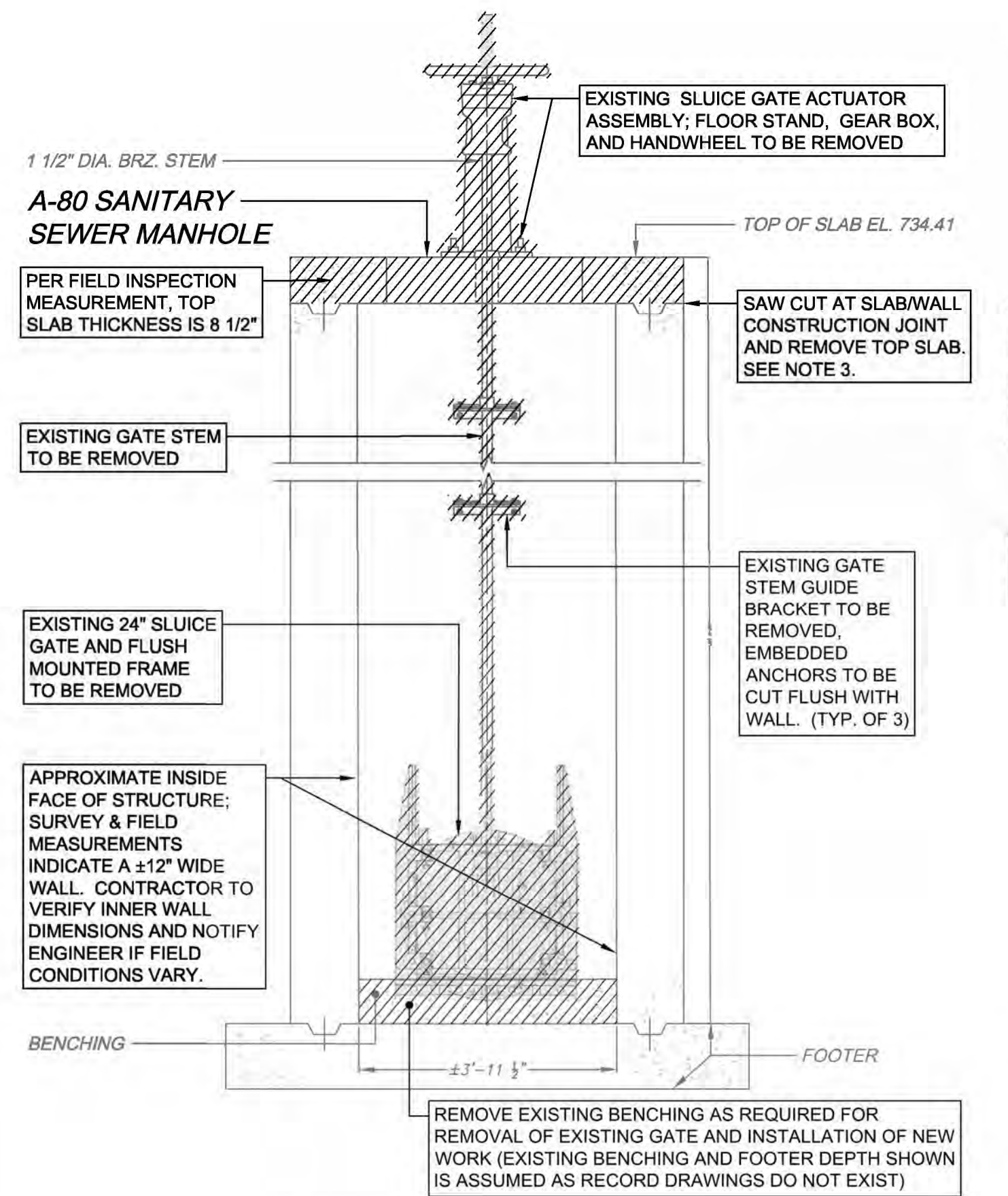
2. SUBSURFACE UTILITY ENGINEERING (SUE) SURVEY PERFORMED BY THE LEXIS GROUP, 07-03-2025.

1. CABLE CARRIES LEVEL INDICATOR SIGNAL FROM OVERFLOW STRUCTURE ON ZAENGER DRIVE TO A MODULE LOCATED IN THE SQAQ RUN PUMP STATION GENERATOR BUILDING. CONTRACTOR TO RELOCATE CABLE CLEAR OF THE DOGHOUSE MANHOLE EXCAVATION ZONE WITH MARKING TAPE PLACED 9" DEEP AND ABOVE THE NEW CONDUIT RUN. CONTRACTOR TO MINIMIZE DURATION AND COORDINATE SCHEDULING OF ANY SIGNAL OUTAGES WITH ALCOSAN REGIONAL CONVEYANCE OPERATIONS STAFF. SIGNAL MUST BE PRESENT DURING WET WEATHER EVENTS. PROVIDE HUBBLE QUAZITE CATALOG ID PD11218A12 HANDHOLES (OR APPROVED EQUAL) FOR RELOCATION WORK. PROVIDE WATER TIGHT SPLICES OF THE COAXIAL CABLE. LOCATION OF HANDHOLD BOXES TO BE COORDINATED WITH THE CONSTRUCTION MANAGER.
2. CONTRACTOR TO PROVIDE TEMPORARY CHAIN-LINK SECURITY FENCING SATISFACTORY TO THE CONSTRUCTION MANAGER. TEMPORARY FENCE POLES SHALL BE SECURED IN PLACE OR EMBEDDED IN THE GROUND; FREE STANDING FENCE POLES SHALL NOT BE ACCEPTED. FENCING HEIGHT SHALL BE EQUAL TO ADJACENT FENCING. PERMANENT FENCE AND PROPOSED 8' WIDE SWING GATE ALIGNMENT SHALL MATCH THE EXISTING.
3. CONTRACTOR TO MAINTAIN A MINIMUM OF 5'-0" OF HORIZONTAL SEPARATION BETWEEN INSIDE FACE OF NEW DOGHOUSE MANHOLE AND OUTSIDE WALL OF EXISTING A-80 INLET MANHOLE STRUCTURE. SEE DRAWING NO. 1818-DET-02 FOR MORE DETAIL ON DOGHOUSE MANHOLE REQUIREMENTS.
4. OWNER TO PROVIDE FIELD DIRECTION FOR MANHOLE HINGE ORIENTATION TO ENSURE CLEARANCE FOR MAINTENANCE PURPOSES. DO NOT MOUNT UNTIL APPROVED. SEE DRAWING NO. 1818-DET-02 FOR MORE DETAIL ON MANHOLE COVER.

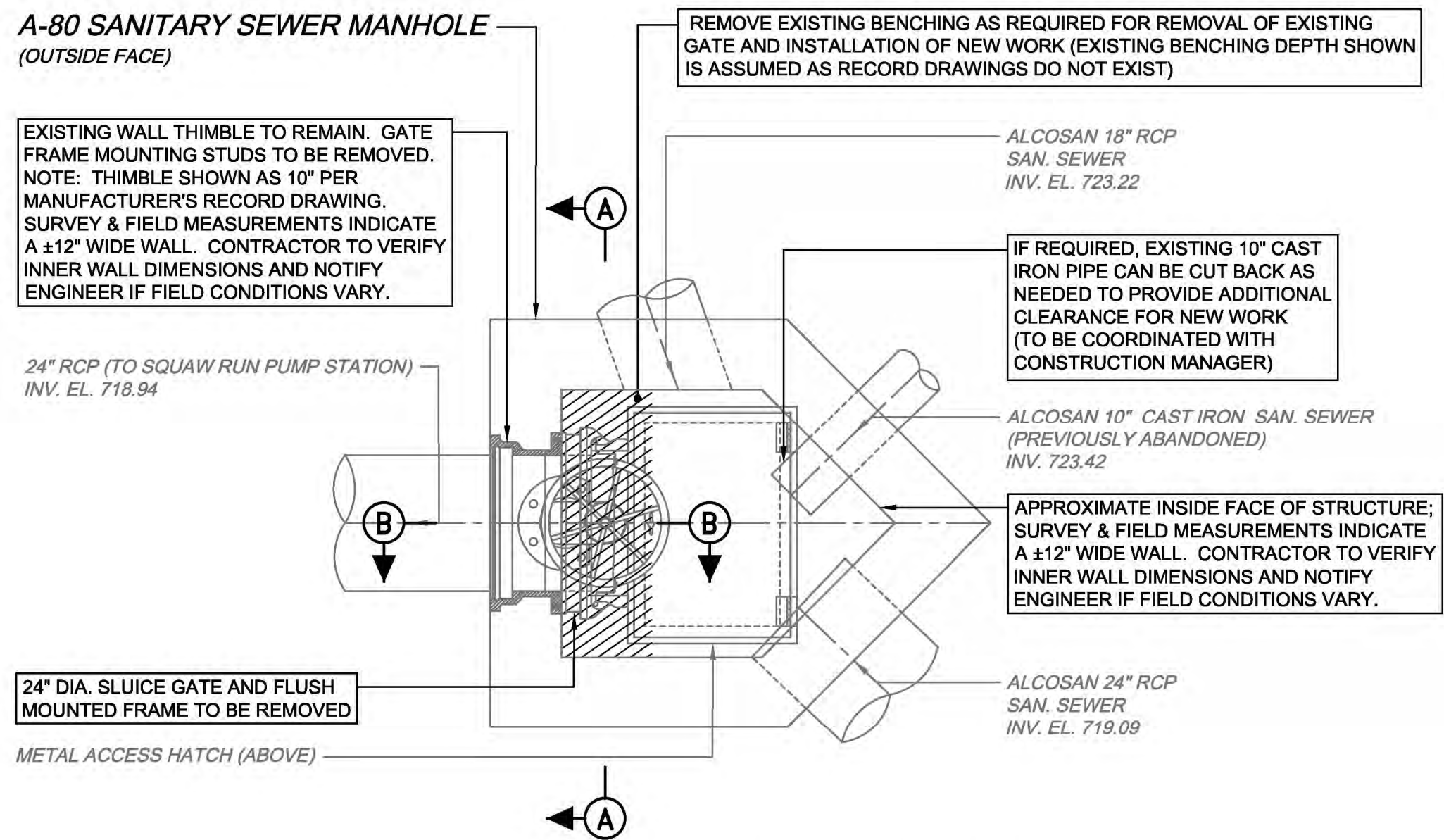
Designed by: E.WOLFF Drawn by: S.VOETTINER Checked by: D.TROIANOS	REVISION			
	REV No.	DATE	DESCRIPTION	APPV
	1	9/2/2025	ISSUED FOR BID	
				
				
				
<p>ARLETTA SCOTT WILLIAMS EXECUTIVE DIRECTOR, ALCOSAN</p> <p>3300 PREBLE AVE. PITTSBURGH, PA 15233 (412) 766 - 4810</p> <p>www.alcosan.org</p>				
<p>ALLEGHENY COUNTY SANITARY AUTHORITY REGIONAL CONVEYANCE SYSTEM MISCELLANEOUS FLAP GATE, SLUICE GATE, AND VALVE REPLACEMENTS AT VARIOUS LOCATIONS</p> <p>A-80 SLUICE GATE REPLACEMENT NEW DOGHOUSE MANHOLE AND SITE PLAN</p>				
<p>Contract: 1818</p> <p>CAD File Name: 1818-A-80-PLN-01.DWG</p> <p>Date: 06/11/2025</p> <p>Sheet: 27 of 68</p>				



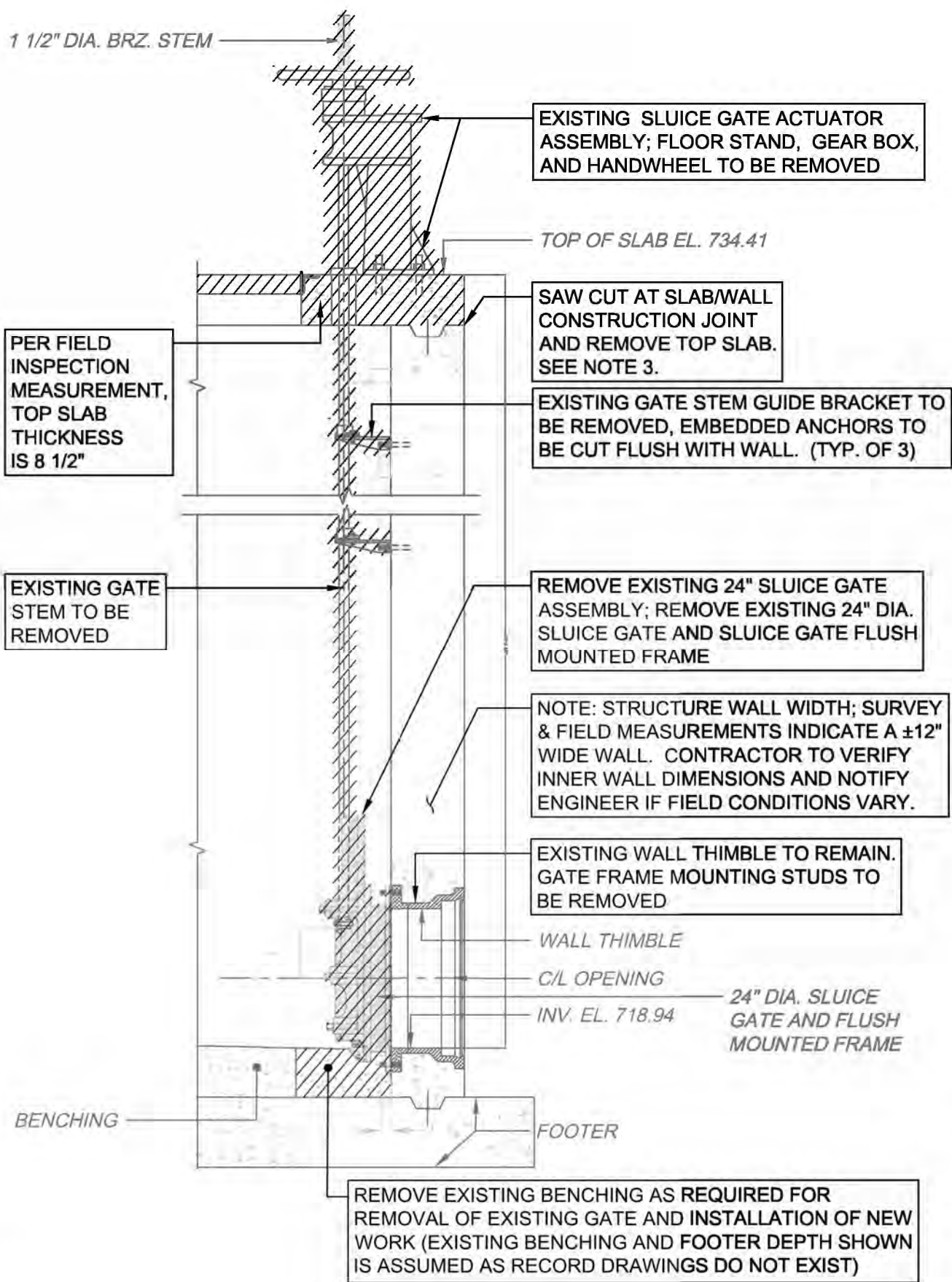
TOP PLAN - DEMOLITION WORK
SCALE: 1/2" = 1'



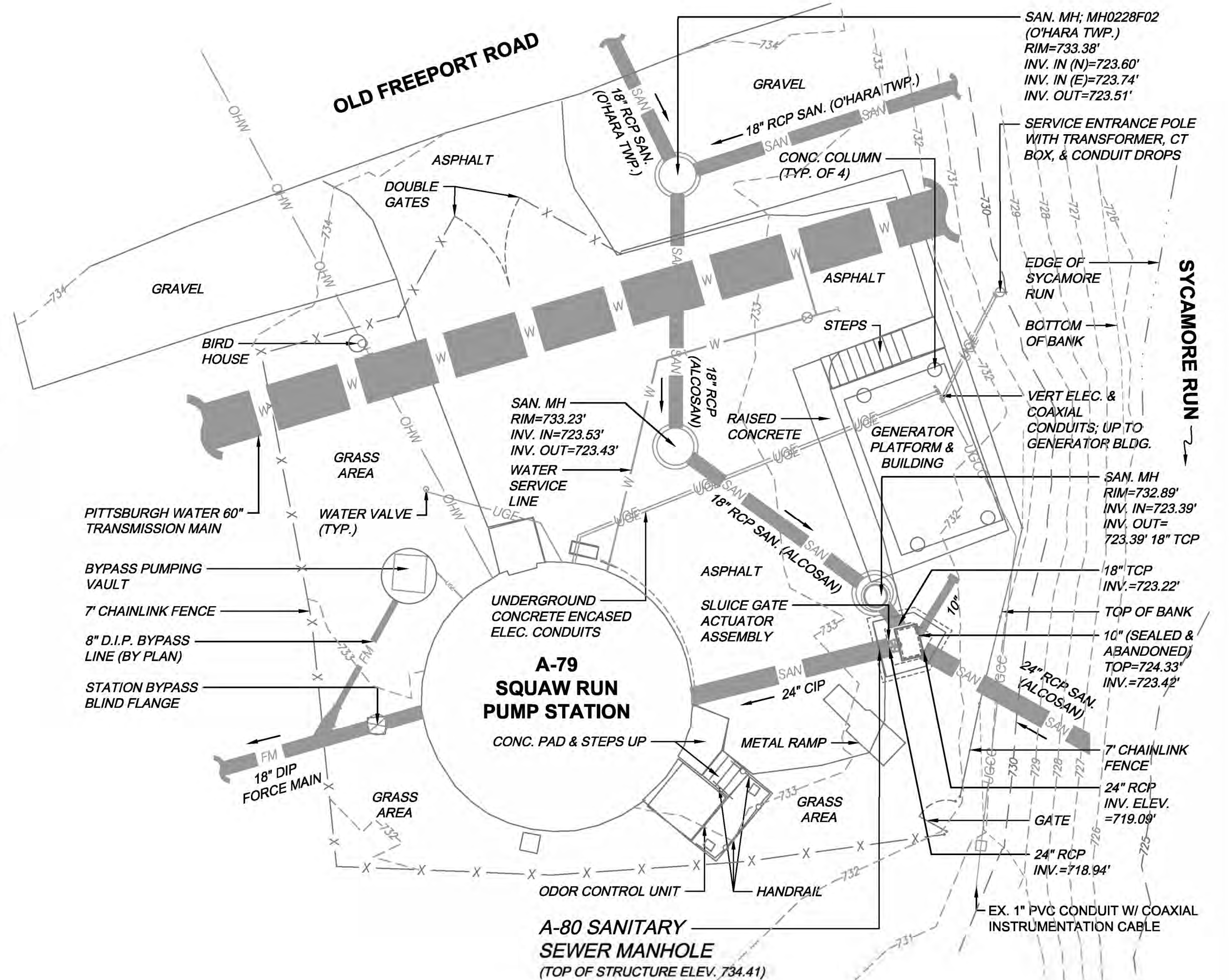
SECTION A-A
SCALE: 1/2" = 1'



BOTTOM PLAN - DEMOLITION WORK
SCALE: 1/2" = 1'



SECTION B-B
SCALE: 1/2" = 1'



SITE LOCATION PLAN
SCALE: 1" = 10'

GENERAL NOTES:

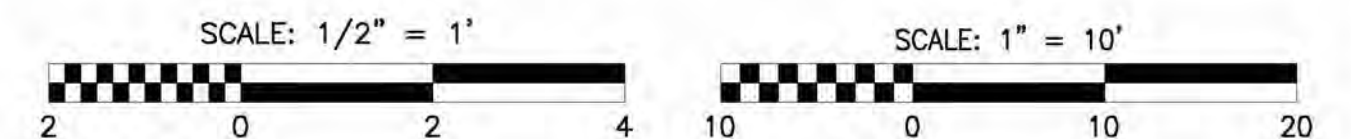
1. SITE LOCATION PLAN PER 04-15-2025 MONALOH BASIN ENGINEERS SURVEY.
2. TOP AND BOTTOM PLAN VIEW DRAFTED FROM FIELD SURVEY DATA, FIELD INSPECTION DATA, AND AVAILABLE RECORD DRAWING INFORMATION, THEREFORE THE INFORMATION SHOWN SHOULD BE CONSIDERED APPROXIMATE AND FOR REFERENCE ONLY. CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL ELEVATIONS AND PHYSICAL DIMENSIONS SHOWN ON THIS PLAN AND NOTIFYING ENGINEER OF ANY DISCREPANCIES PRIOR TO ORDERING MATERIALS OR PERFORMING ANY INSTALLATION OF APPLICABLE WORK ITEMS.
3. CONTRACTOR TO INSTALL PROTECTION TO PREVENT ANY DEMOLITION DEBRIS FROM FLOWING TO THE DOWNSTREAM PUMP STATION.

LEGEND:

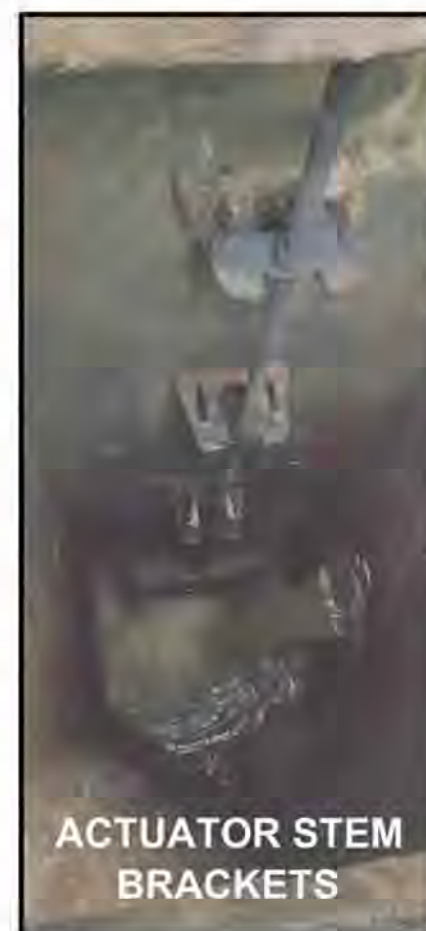
INDICATES DEMOLITION

ALCOSAN DRAWING REFERENCES:

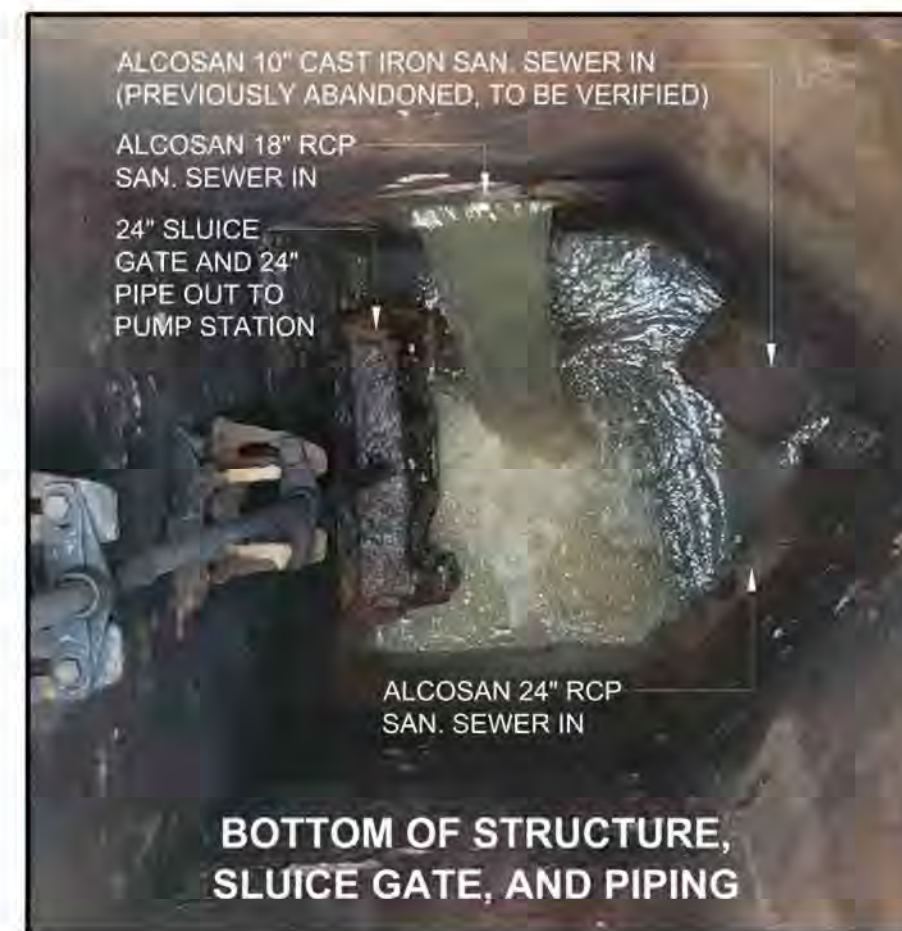
1. CONTRACT NUMBER 64, DRAWING NUMBER C-2953, DATED OCTOBER 9, 1956 (REVISED NOVEMBER 5, 1956).
2. RODNEY HUNT MACHINE CO. DRAWING NUMBER D-4882, DATED OCTOBER 4, 1956.
3. REFERENCE PROJECT NOTES AND SCOPE OF SUMMARY TABLES SHEET FOR MORE DETAILS ON SLUICE GATE REPLACEMENT REQUIREMENTS.



ACTUATOR ASSEMBLY



ACTUATOR STEM BRACKETS

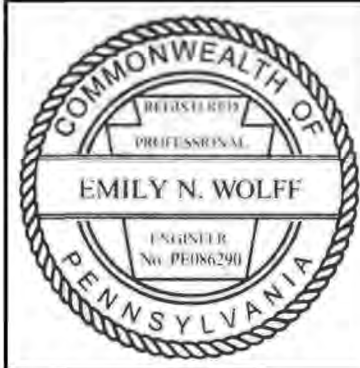


BOTTOM OF STRUCTURE, SLUICE GATE, AND PIPING

FIELD INSPECTION PHOTOS

Designed by:	REVISION			
E.WOLFF	REV No.	DATE	DESCRIPTION	APPV
Drawn by:	1	9/2/2025	ISSUED FOR BID	
S.VOETTNER				
Checked by:				
D.TROIANOS				

gai consultants

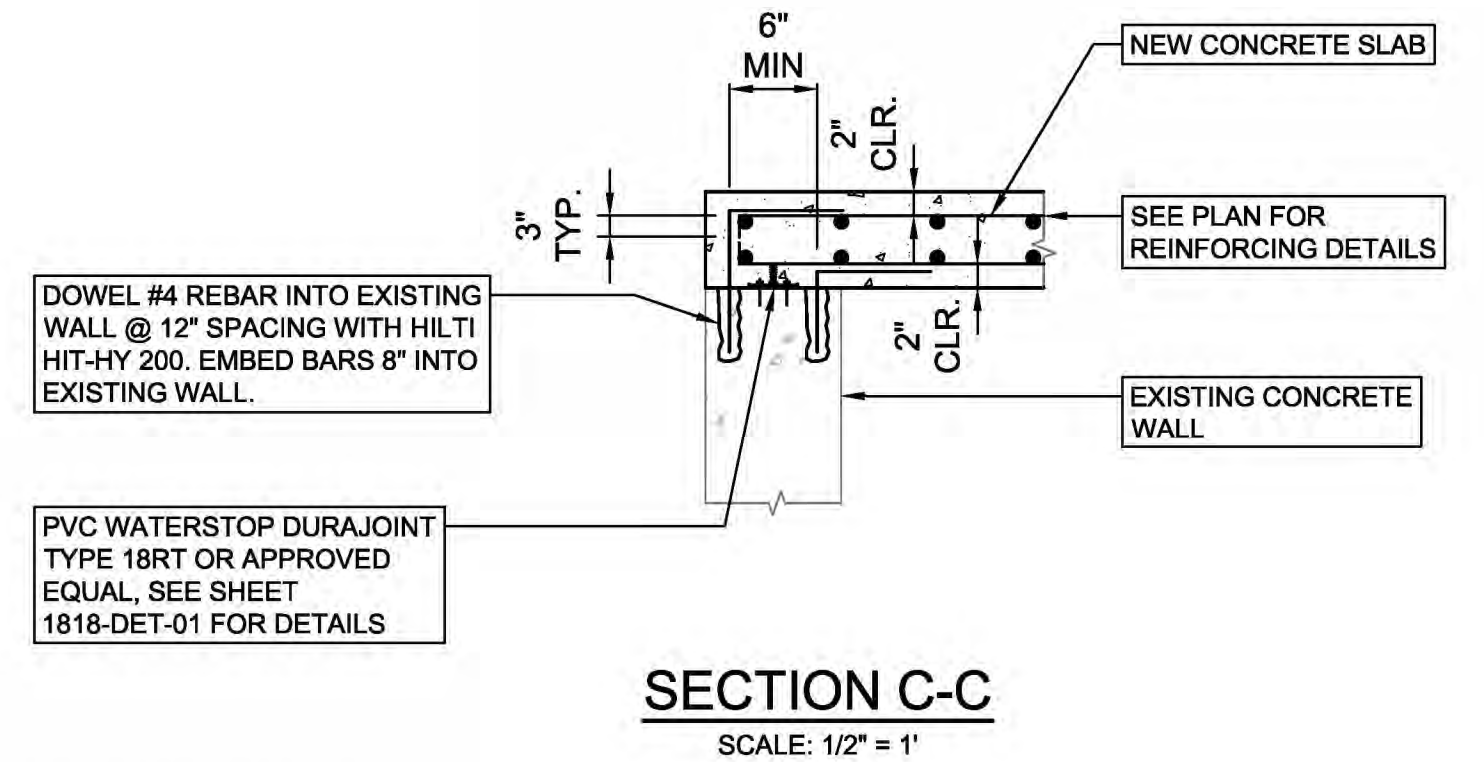
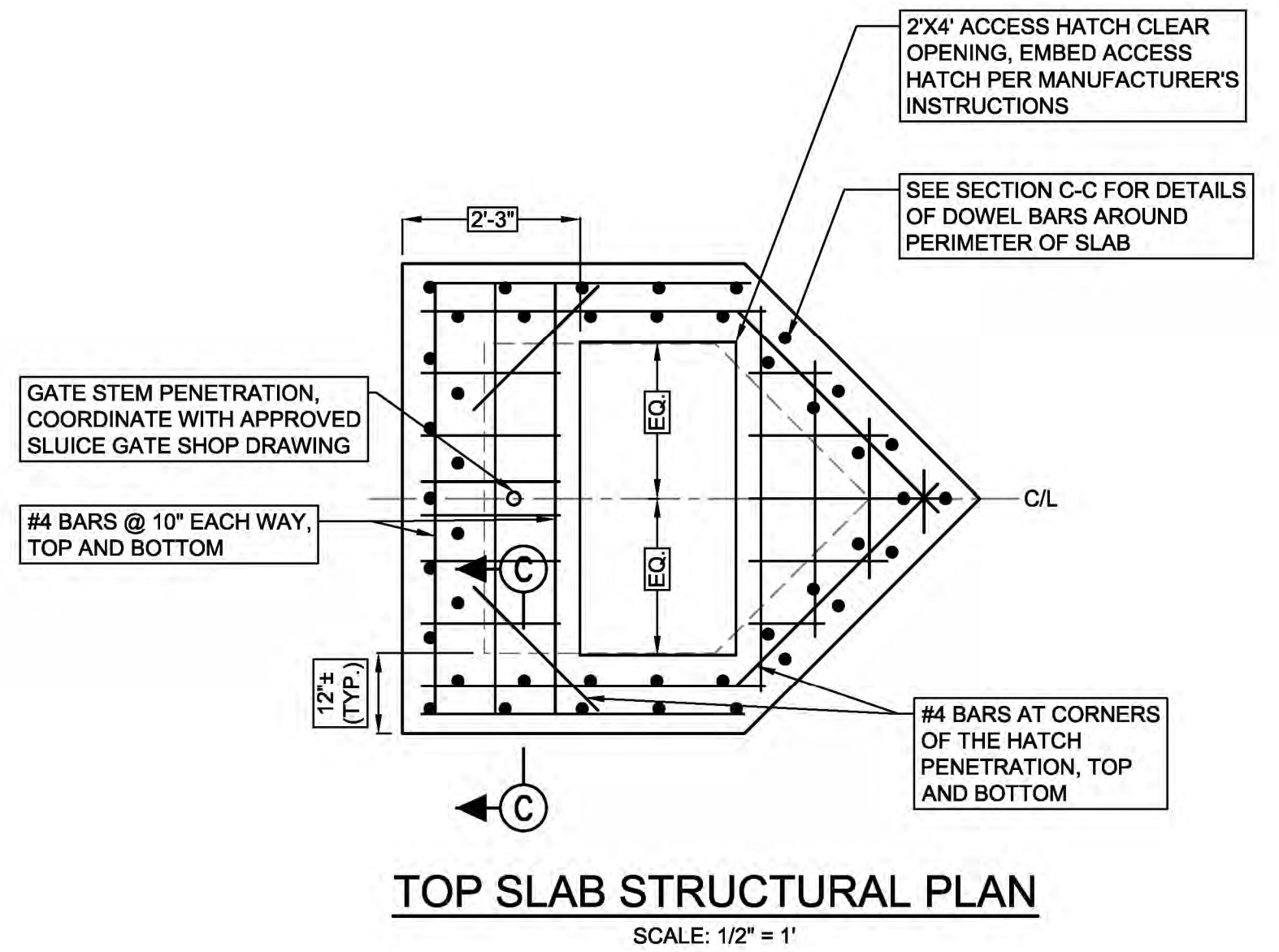
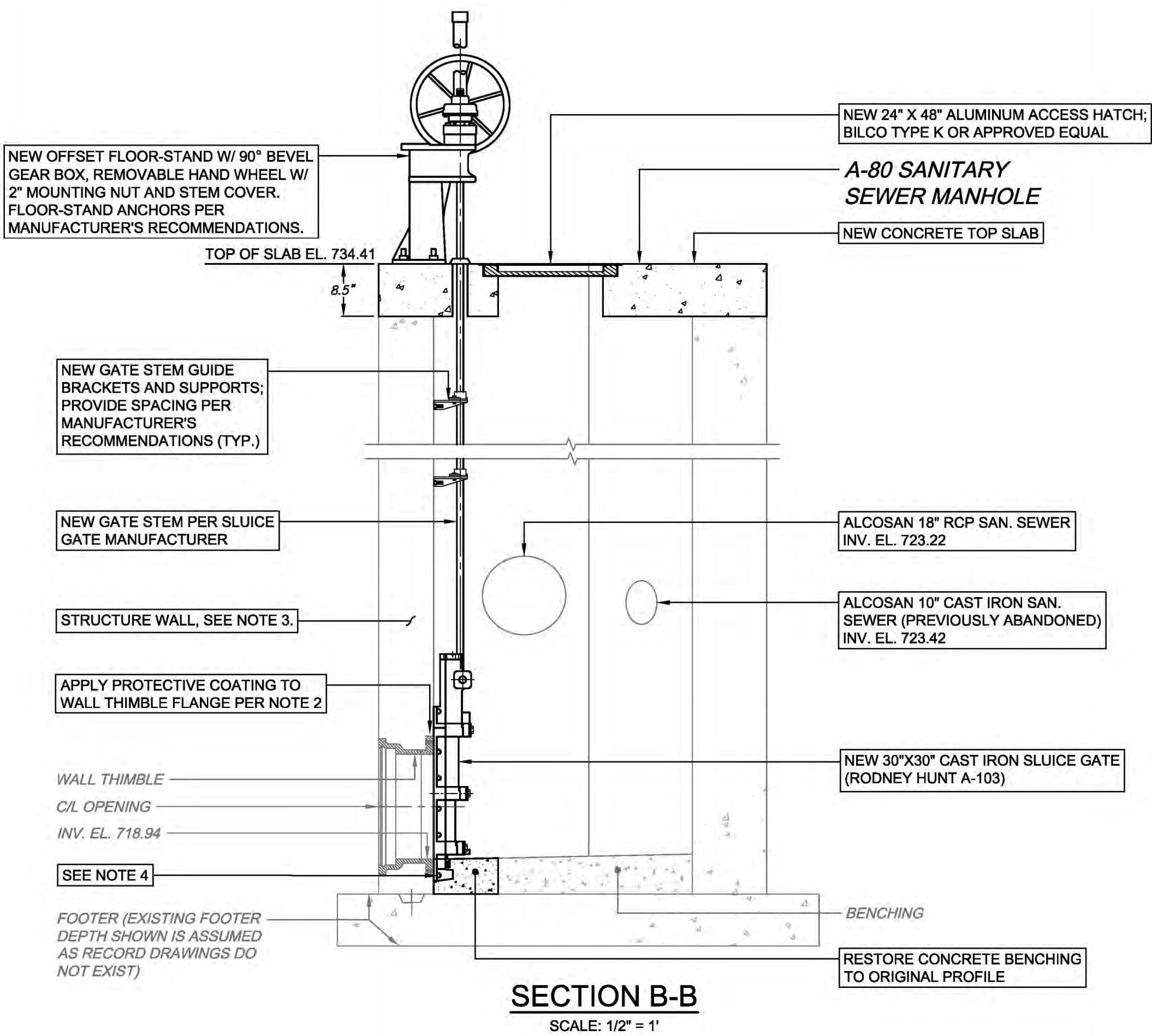
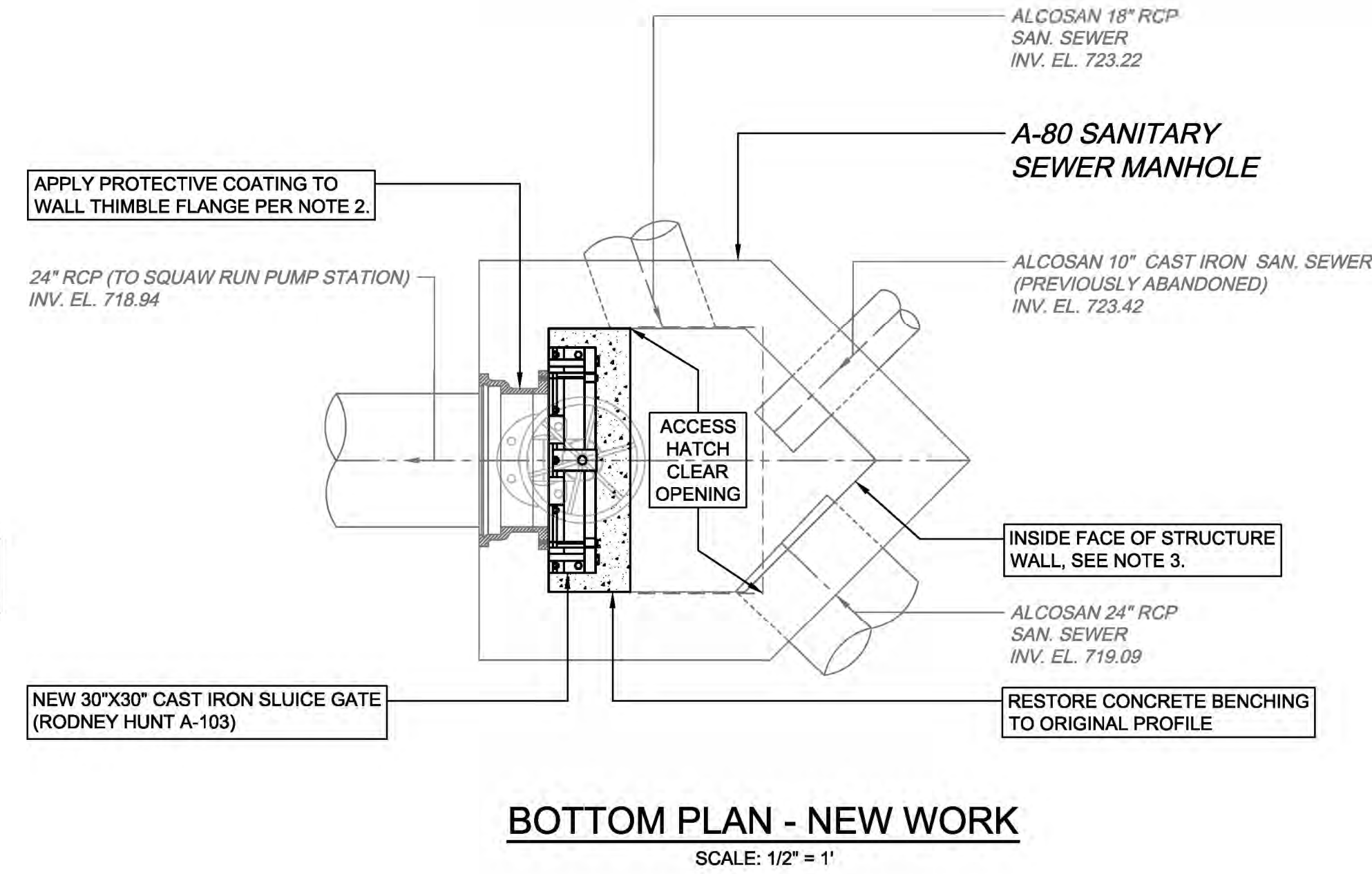
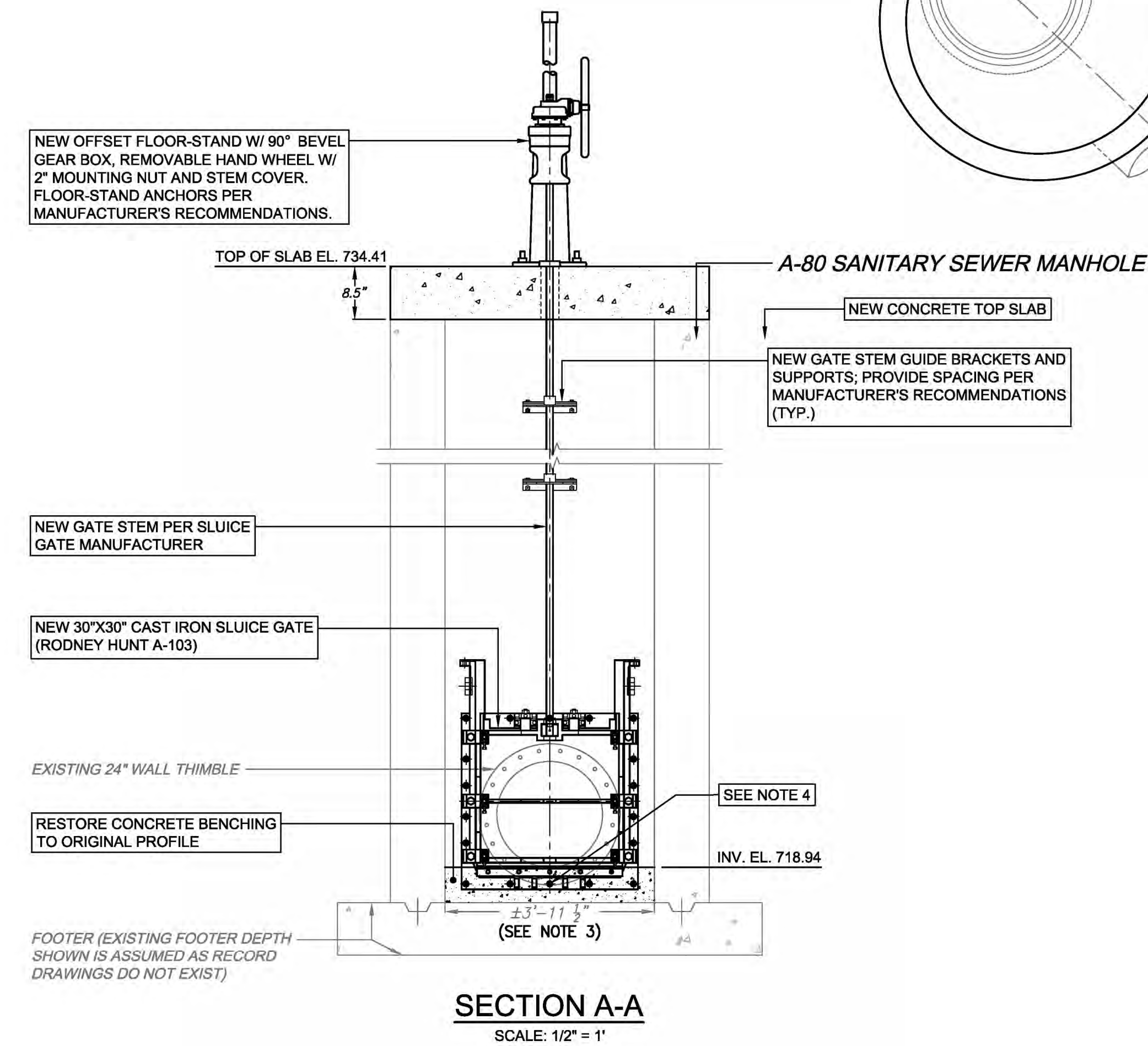
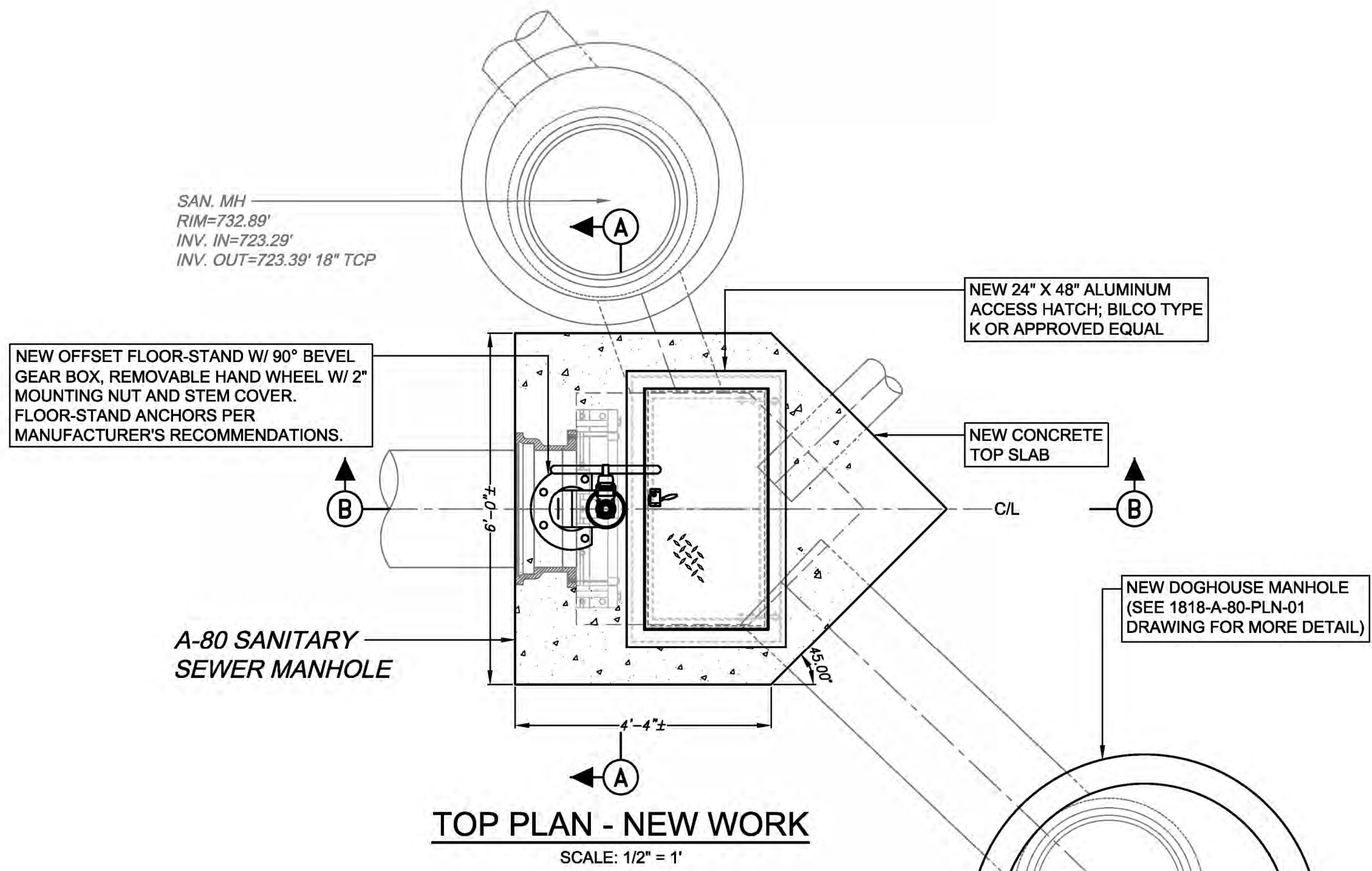


ARLETTA SCOTT WILLIAMS
EXECUTIVE DIRECTOR, ALCOSAN

3300 PREBLE AVE.
PITTSBURGH, PA 15233
(412) 766 - 4810

www.alcosan.org

ALLEGHENY COUNTY SANITARY AUTHORITY REGIONAL CONVEYANCE SYSTEM MISCELLANEOUS FLAP GATE, SLUICE GATE, AND VALVE REPLACEMENTS AT VARIOUS LOCATIONS		Contract:	1818
A-80 SLUICE GATE REPLACEMENT DEMOLITION WORK PLANS AND SECTIONS		CAD File Name:	1818-A-80-PLSC-01.DWG
		Date:	06/11/2025
		Sheet:	28 of 68

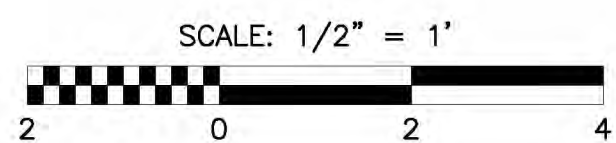


GENERAL NOTES:

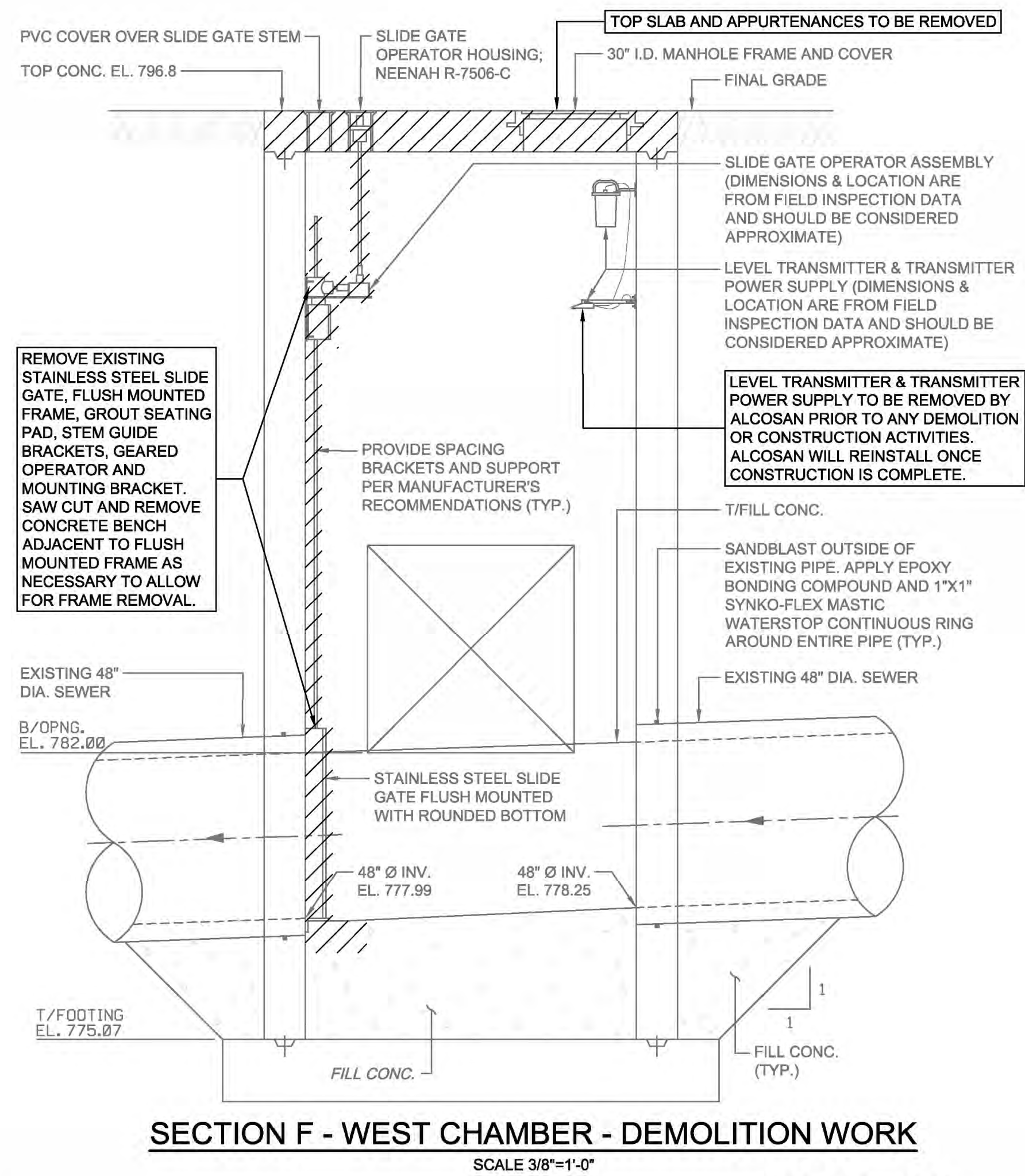
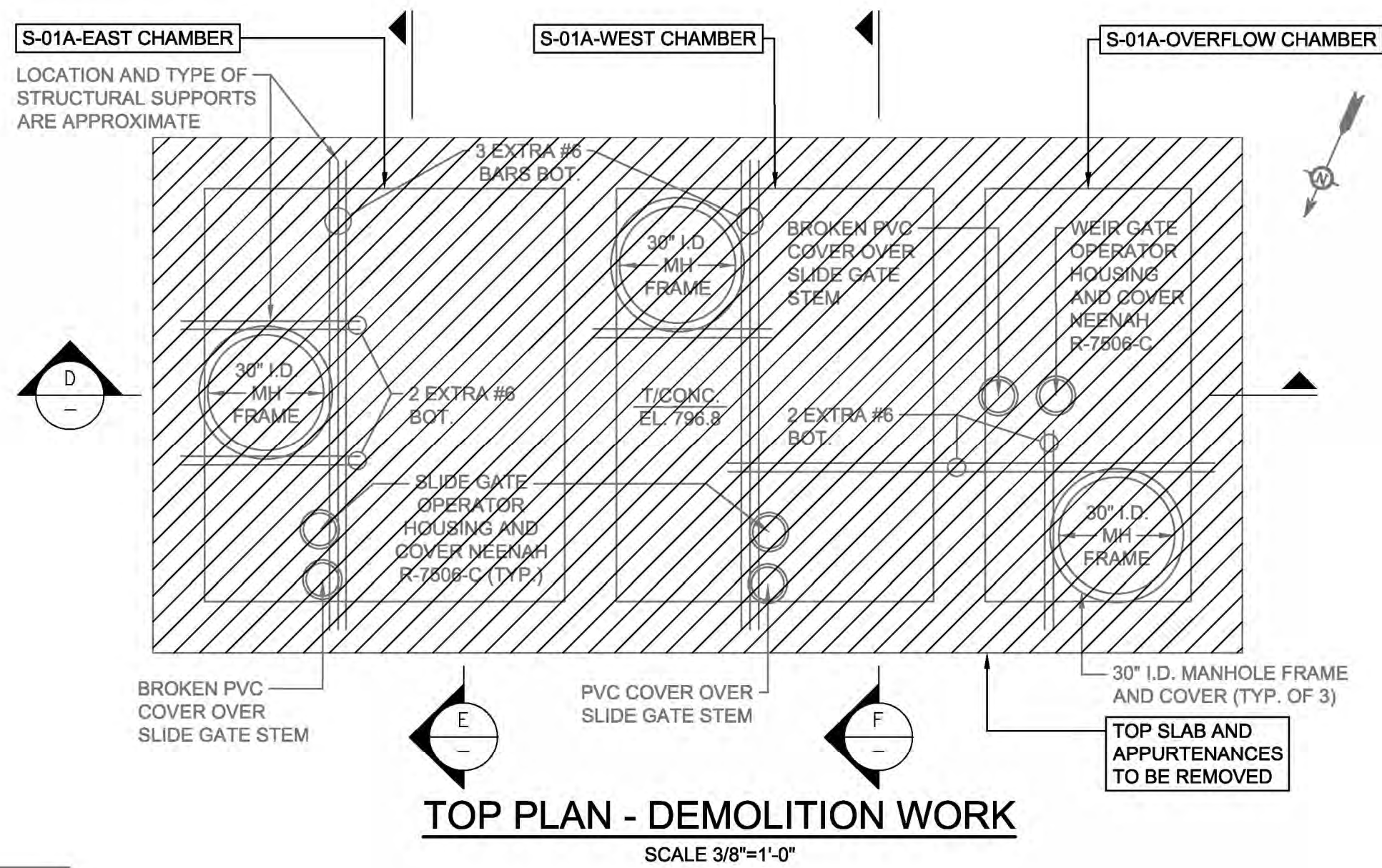
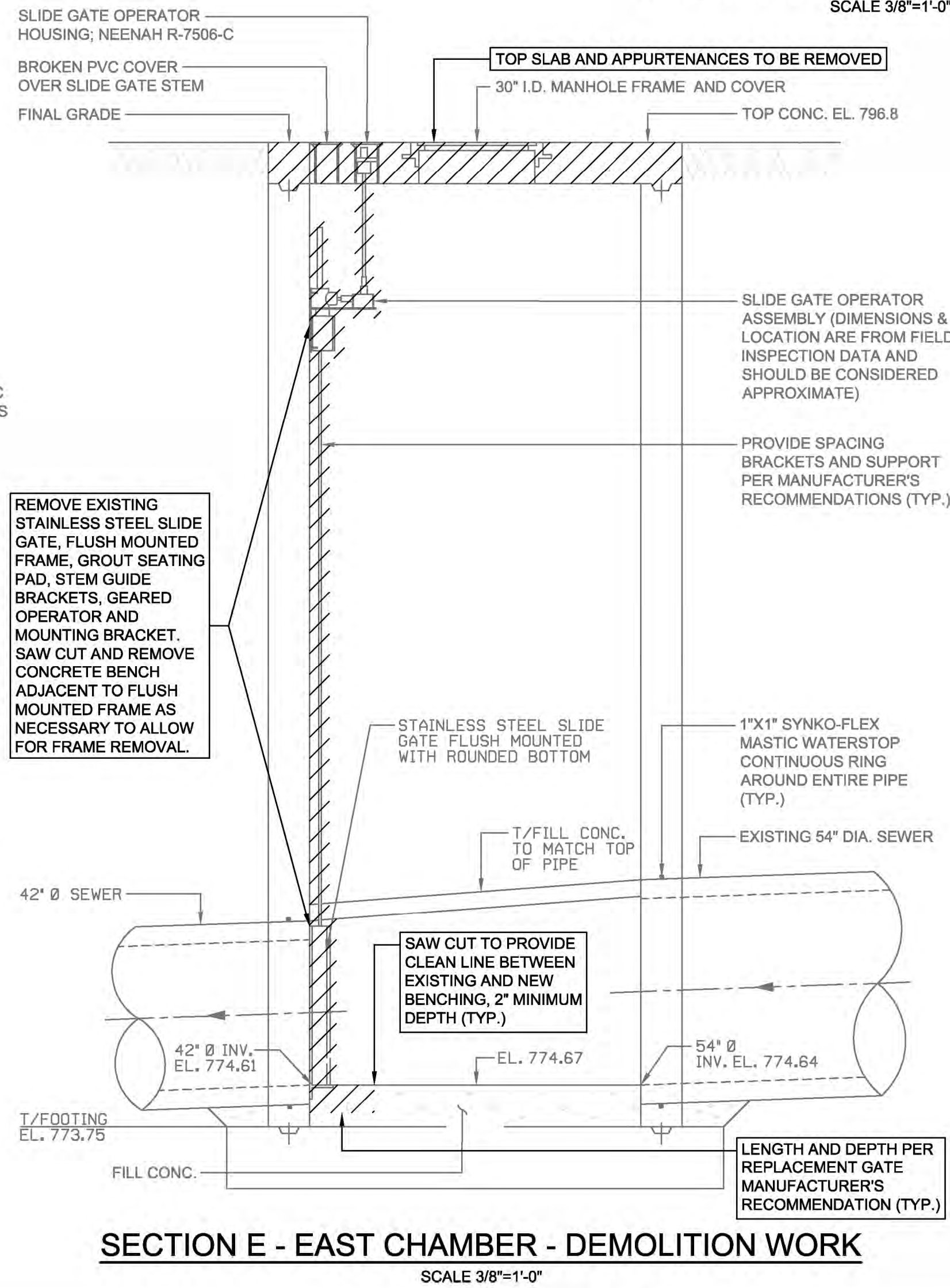
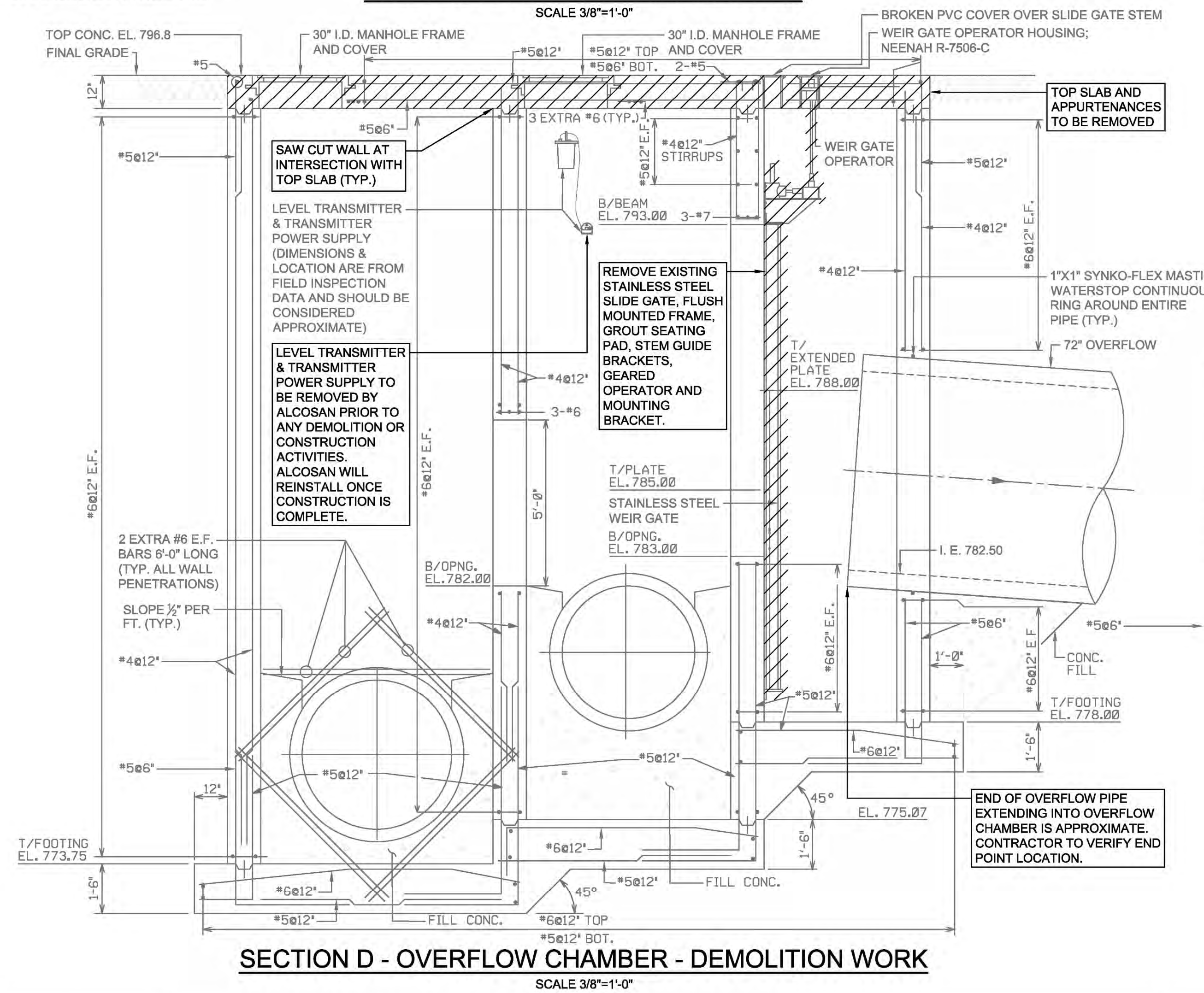
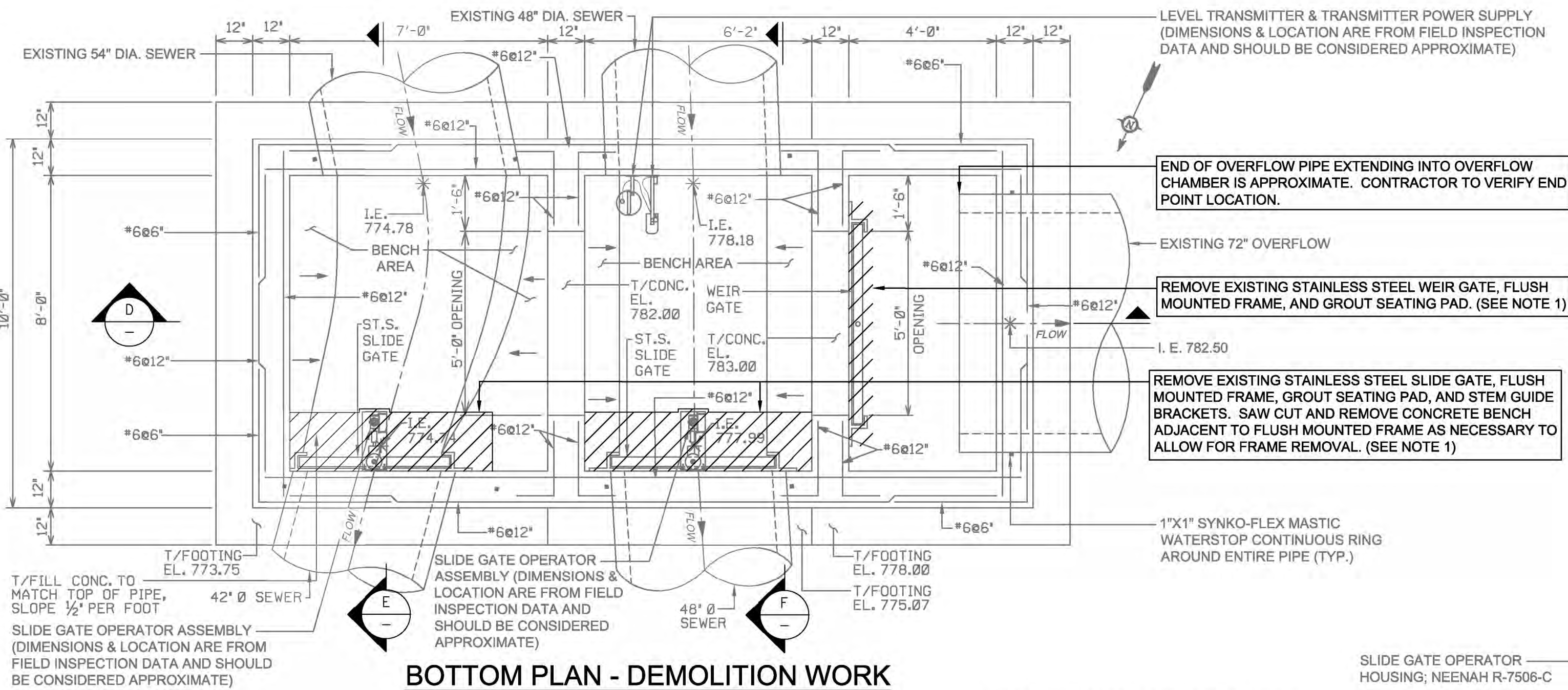
1. TOP AND BOTTOM PLAN VIEW DRAFTED FROM FIELD SURVEY DATA, FIELD INSPECTION DATA, AND AVAILABLE RECORD DRAWING INFORMATION, THEREFOR THE INFORMATION SHOWN SHOULD BE CONSIDERED APPROXIMATE AND FOR REFERENCE ONLY. CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL ELEVATIONS AND PHYSICAL DIMENSIONS SHOWN ON THIS PLAN AND NOTIFYING ENGINEER OF ANY DISCREPANCIES PRIOR TO ORDERING MATERIALS OR PERFORMING ANY INSTALLATION OF APPLICABLE WORK ITEMS.
2. PREPARE EXISTING WALL THIMBLE FLANGE PER SSPC-SP1 AND SP11. COAT WITH WASSER ADVANCED COATING TECHNOLOGY: MC-MIOZINK 100 PRIMER (2 COATS), TOP COAT WITH MC-ECO TR 100 (2 COATS) OR APPROVED EQUAL. APPLY COATINGS IN ACCORDANCE WITH MANUFACTURER RECOMMENDATIONS.
3. SURVEY & FIELD MEASUREMENTS INDICATE A ±12" WIDE WALL CONTRACTOR TO VERIFY INNER WALL DIMENSIONS AND NOTIFY ENGINEER IF FIELD CONDITIONS VARY.
4. IF THE BENCHING AND EXISTING FOOTER ELEVATION PERMIT, PREFERENCE WOULD BE TO INSTALL THE NEW SLUICE GATE OPENING LOWER THAN SHOWN SO THAT IT IS CENTERED ON THE WALL THIMBLE OPENING. DRAWING SHOWS NEW SLUICE GATE FRAME INVERT EQUAL TO THE EXISTING WALL THIMBLE INVERT ELEVATION WHICH WOULD REQUIRE THE CONTRACTOR TO GROUT FRAME ANCHOR HOLES WHERE THEY OVERLAP WITH EXISTING WALL THIMBLE.

ALCOSAN DRAWING REFERENCES:

1. CONTRACT NUMBER 64, DRAWING NUMBER C-2953, DATED OCTOBER 9, 1956 (REVISED NOVEMBER 5, 1956).
2. REFERENCE PROJECT NOTE AND SCOPE OF WORK SUMMARY TABLES SHEET FOR MORE DETAILS ON SLUICE GATE REPLACEMENT REQUIREMENTS.

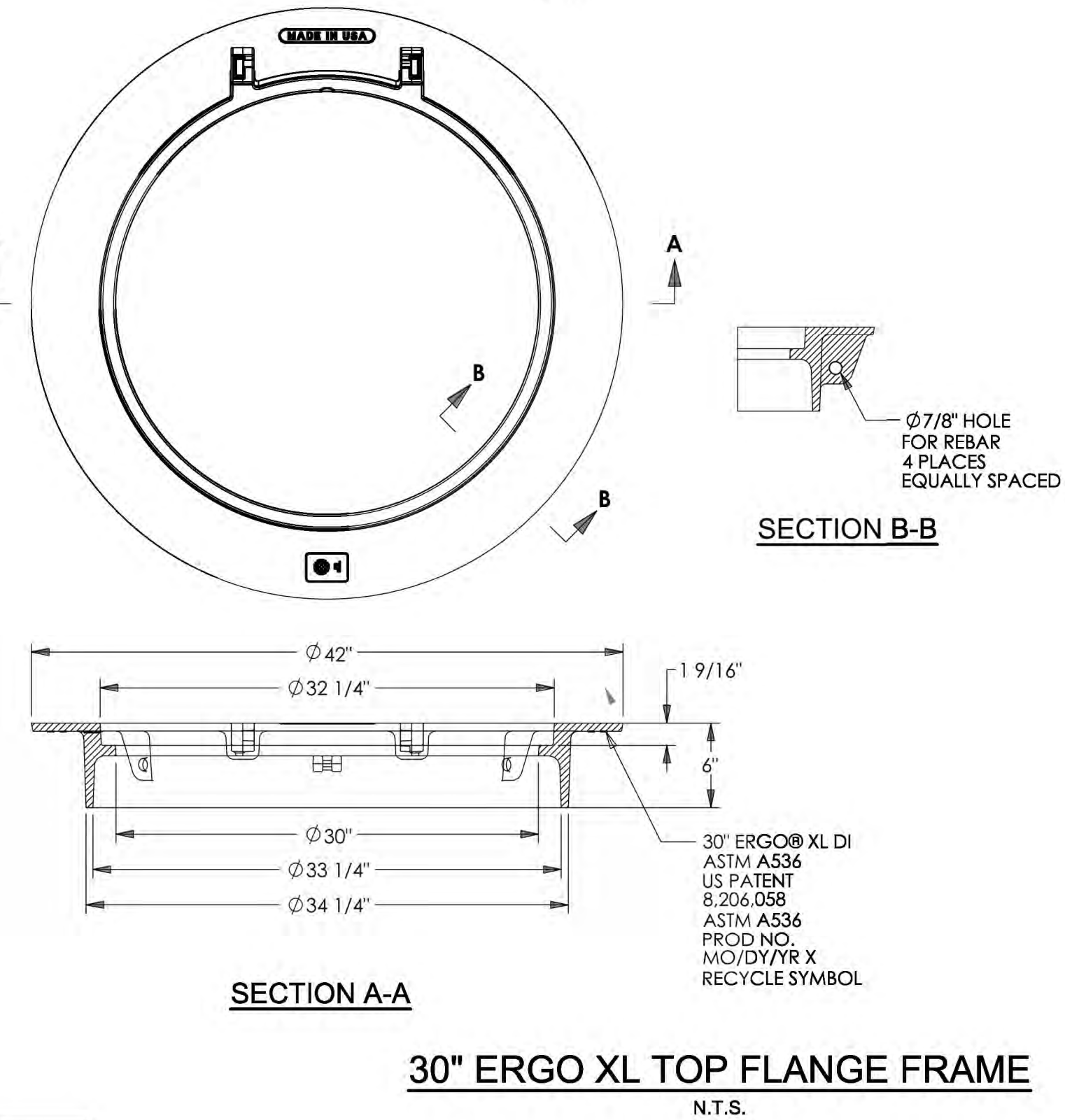
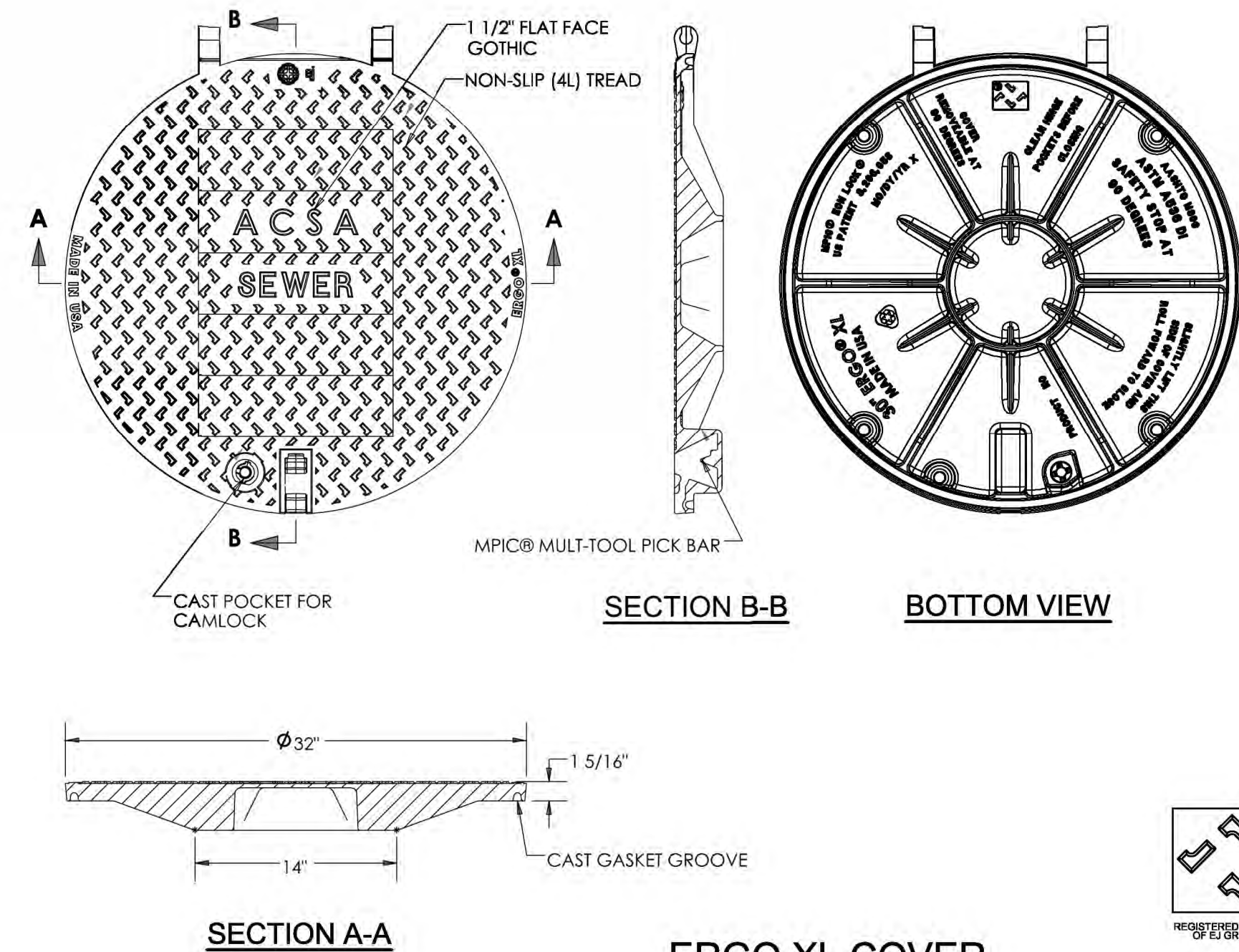
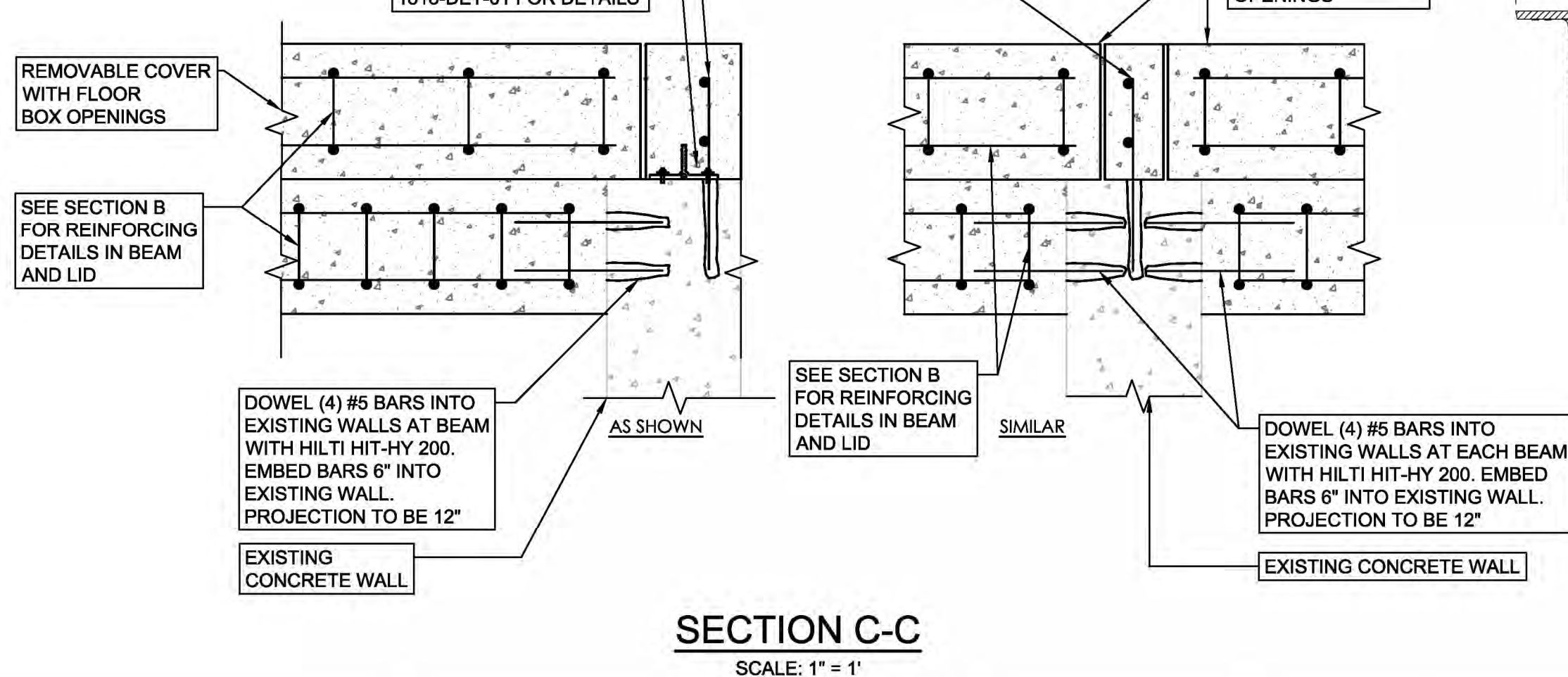
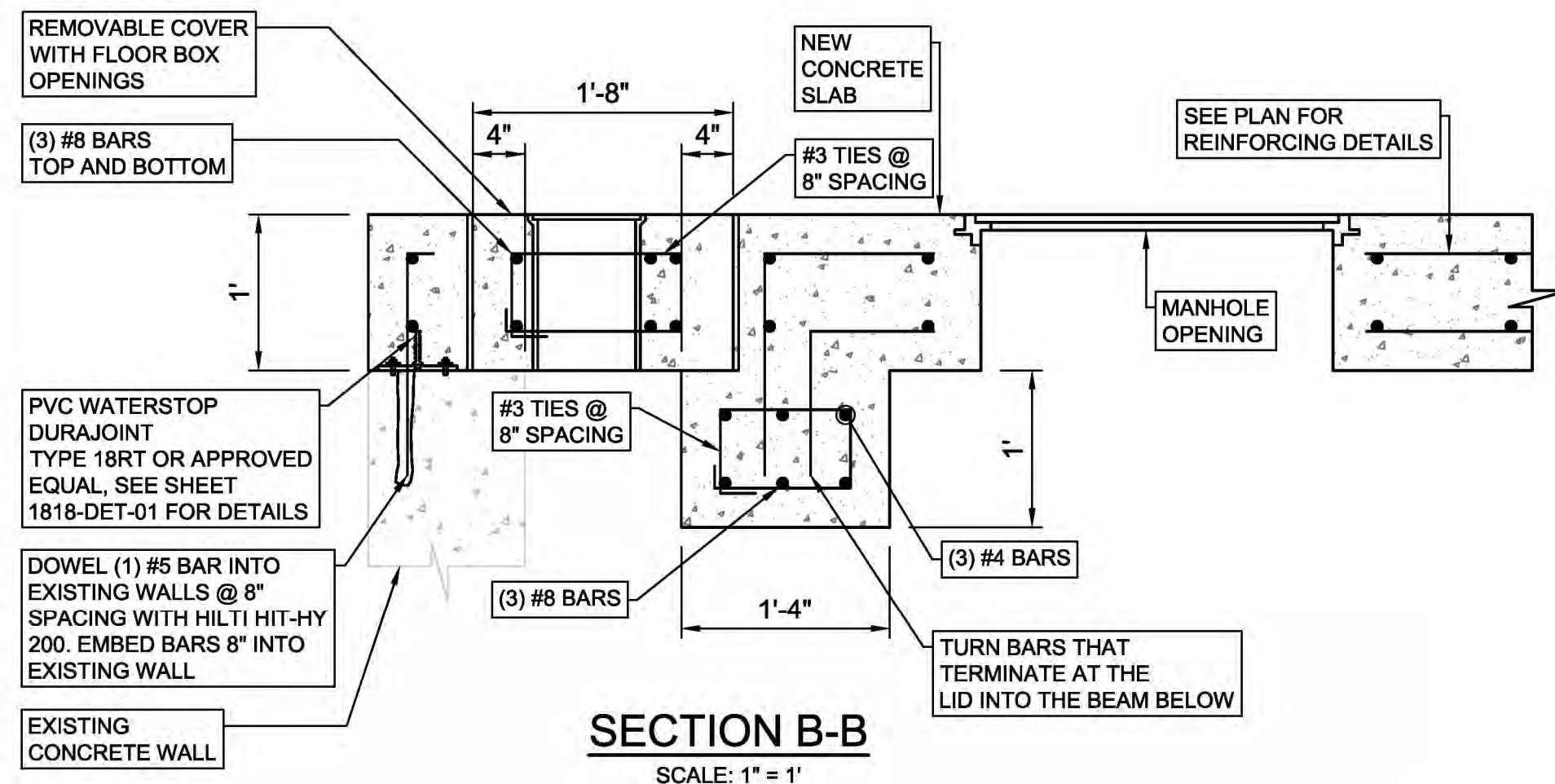
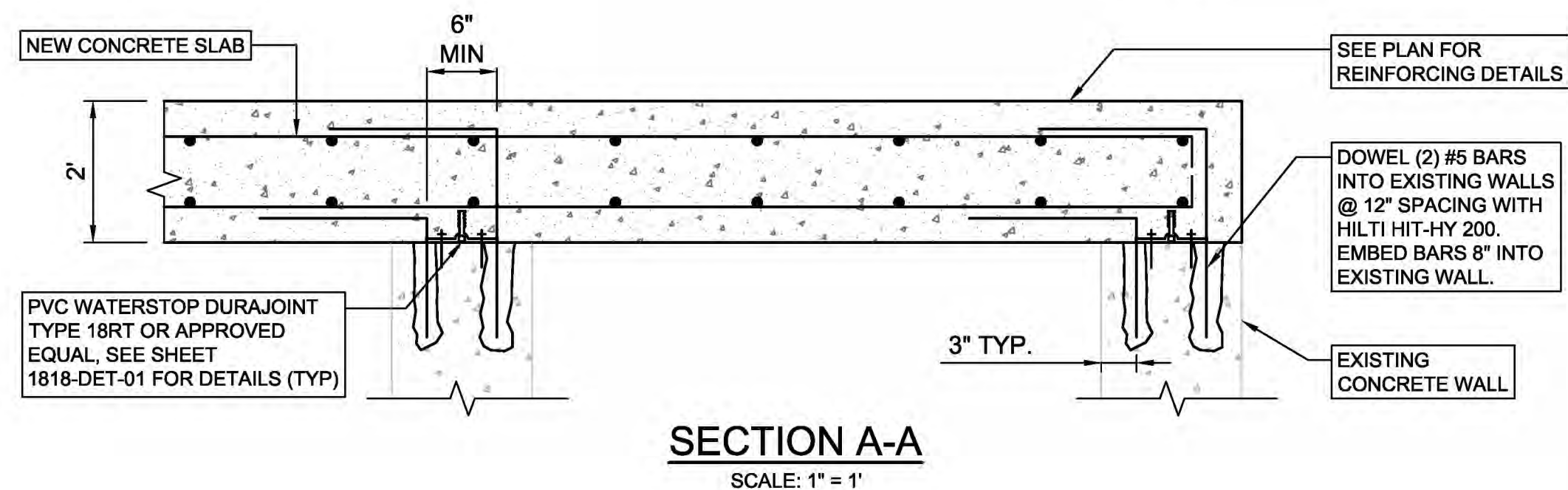
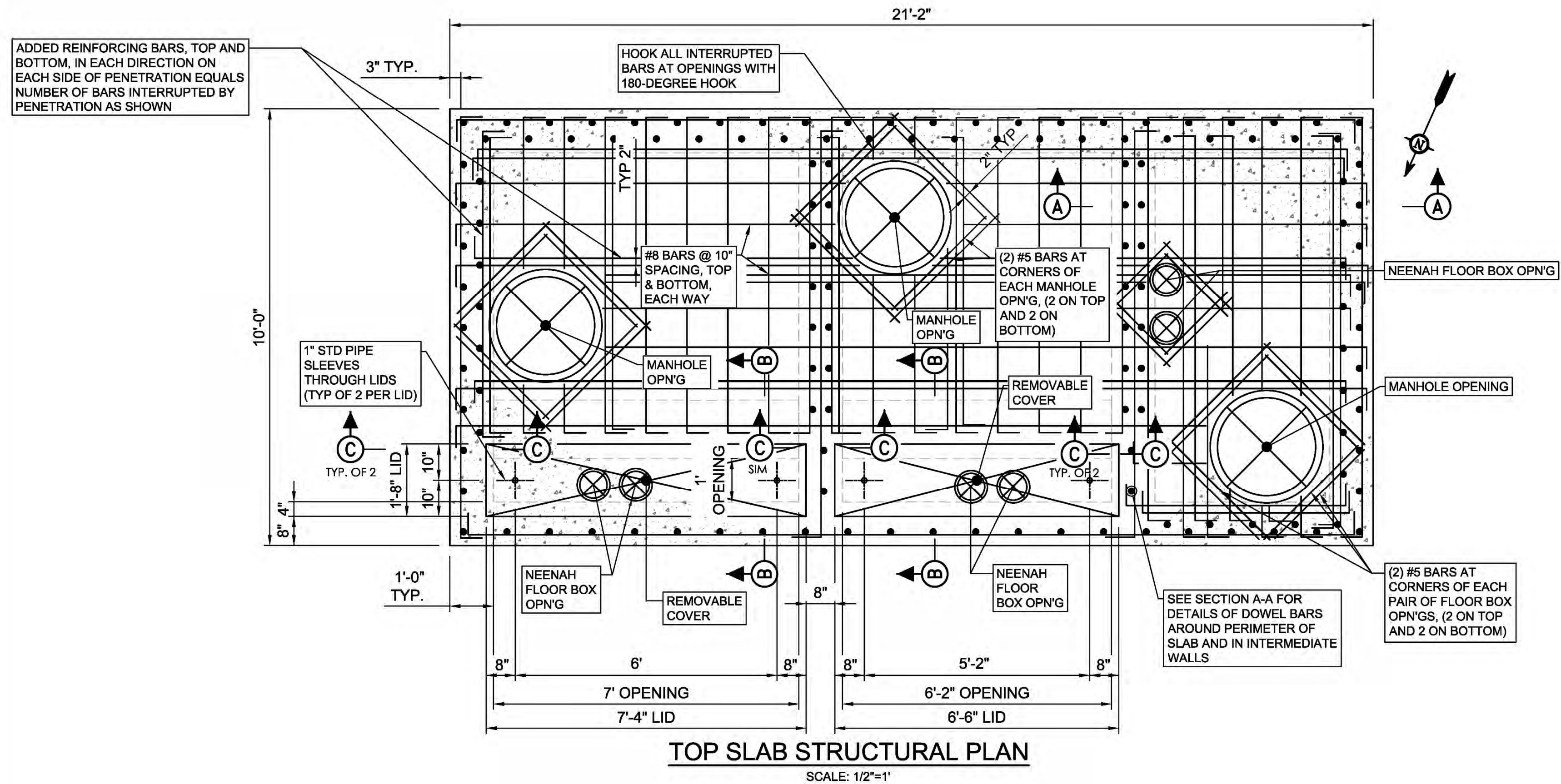


Designed by: E.WOLFF	<table><tr><th colspan="4">REVISION</th></tr><tr><th>REV No.</th><th>DATE</th><th>DESCRIPTION</th><th>APPV</th></tr><tr><td>1</td><td>9/2/2025</td><td>ISSUED FOR BID</td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr></table>				REVISION				REV No.	DATE	DESCRIPTION	APPV	1	9/2/2025	ISSUED FOR BID																					 <div>ARLETTA SCOTT WILLIAMS EXECUTIVE DIRECTOR, ALCOSAN 3300 PREBLE AVE. PITTSBURGH, PA 15233 (412) 766 - 4810 www.alcosan.org</div>	<table><tr><td colspan="2">ALLEGHENY COUNTY SANITARY AUTHORITY REGIONAL CONVEYANCE SYSTEM MISCELLANEOUS FLAP GATE, SLUICE GATE, AND VALVE REPLACEMENTS AT VARIOUS LOCATIONS</td><td>Contract: 1818</td></tr><tr><td colspan="2" rowspan="3">A-80 SLUICE GATE REPLACEMENT NEW WORK PLANS AND SECTIONS</td><td>CAD File Name: 1818-A-80-PLSC-02.DWG</td></tr><tr><td>Date: 06/11/2025</td></tr><tr><td>Sheet: 29 of 68</td></tr></table>	ALLEGHENY COUNTY SANITARY AUTHORITY REGIONAL CONVEYANCE SYSTEM MISCELLANEOUS FLAP GATE, SLUICE GATE, AND VALVE REPLACEMENTS AT VARIOUS LOCATIONS		Contract: 1818	A-80 SLUICE GATE REPLACEMENT NEW WORK PLANS AND SECTIONS		CAD File Name: 1818-A-80-PLSC-02.DWG	Date: 06/11/2025	Sheet: 29 of 68
REVISION																																													
REV No.	DATE	DESCRIPTION	APPV																																										
1	9/2/2025	ISSUED FOR BID																																											
ALLEGHENY COUNTY SANITARY AUTHORITY REGIONAL CONVEYANCE SYSTEM MISCELLANEOUS FLAP GATE, SLUICE GATE, AND VALVE REPLACEMENTS AT VARIOUS LOCATIONS		Contract: 1818																																											
A-80 SLUICE GATE REPLACEMENT NEW WORK PLANS AND SECTIONS		CAD File Name: 1818-A-80-PLSC-02.DWG																																											
		Date: 06/11/2025																																											
		Sheet: 29 of 68																																											
Drawn by: S.VOETTNER C.SZCZYPINSKI																																													
Checked by: D.TROIANOS																																													



- LEGEND:**
- INDICATES DEMOLITION
- ALCOSAN DRAWING REFERENCES:**
1. CONTRACT 1104, SHEET 35, DATED JULY 21, 1999.
 2. REFERENCE PROJECT NOTES AND SCOPE OF WORK SUMMARY TABLES FOR MORE DETAILS ON SLUICE GATE REPLACEMENT REQUIREMENTS.
 3. NOTE THAT STRUCTURE S-01A MAY ALSO BE REFERRED TO AS SMR-01 OR SMR01 ON SOME OLDER RECORD FILES.
- NOTES:**
1. NEW SLUICE GATE TO BE INSTALLED ON EXISTING GATE FRAME ANCHOR STUDS. CONTRACTOR TO REMOVE ANCHOR NUTS WITH NUT SPLITTER TOOL. EXISTING GATE FRAME TO BE USED AS ANCHOR HOLE TEMPLATE FOR NEW SLUICE GATE. NEW GATE TO BE DRILLED ON SITE BY CONTRACTOR.

Designed by:	E.WOLFF	REV No.	DATE	REVISION DESCRIPTION	APPV				ARLETTA SCOTT WILLIAMS EXECUTIVE DIRECTOR, ALCOSAN 3300 PREBLE AVE. PITTSBURGH, PA 15233 (412) 766 - 4810 www.alcosan.org	ALLEGHENY COUNTY SANITARY AUTHORITY REGIONAL CONVEYANCE SYSTEM MISCELLANEOUS FLAP GATE, SLUICE GATE, AND VALVE REPLACEMENTS AT VARIOUS LOCATIONS S-01A SLUICE GATE REPLACEMENT DEMOLITION WORK PLANS AND SECTIONS	Contract:	1818
Drawn by:	S.VOETTNER										CAD File Name:	1818-S-01A-PLSC-01.DWG
Checked by:	D.TROIANOS										Date:	06/11/2025
											Sheet:	30 of 68



Product Number
LC00148032
Design Features
-Materials
Ductile Iron (80-55-06)
-Design Load
Heavy Duty
-Open Area
n/a
-Coating
Dipped
-Designates Machined Surface
-Slip Resistant Surface
with the LLLL® registered trademark

Certification
-ASTM A536
-Country of Origin: USA

Drawing Revision
6/16/2010 Designer: SBB
5/19/2022 Revised By: DAE

Disclaimer
Weights (lbs/kg), dimensions (inches/mm) and drawings provided for your guidance. We reserve the right to modify specifications without prior notice.

CONFIDENTIAL: This drawing is the property of EJ Group, Inc. and embodies confidential information, registered marks, patents, trade secret information, and/or know how that is the property of EJ Group, Inc. Copyright © 2011 EJ Group, Inc. All rights reserved.

Contact
800 626 4653
ejco.com



Product Number
LF300604201
Design Features
-Materials
Ductile Iron (80-55-06)
-Load Rating
Heavy Duty H25
-Open Area
n/a
-Coating
Undipped
-Designates Machined Surface

Certification
-ASTM A536
-Country of Origin: USA

Drawing Revision
07/06/2020 Designer: DEF
09/28/2020 Revised By: DEF

Disclaimer
Weights (lbs/kg), dimensions (inches/mm) and drawings provided for your guidance. We reserve the right to modify specifications without prior notice.

CONFIDENTIAL: This drawing is the property of EJ Group, Inc. and embodies confidential information, registered marks, patents, trade secret information, and/or know how that is the property of EJ Group, Inc. Copyright © 2018 EJ Group, Inc. All rights reserved.

Contact
800 626 4653
ejco.com

Designed by: J.STATES	REV No.	DATE	REVISION DESCRIPTION	APPV			ARLETTA SCOTT WILLIAMS EXECUTIVE DIRECTOR, ALCOSAN 3300 PREBLE AVE. PITTSBURGH, PA 15233 (412) 766 - 4810 www.alcosan.org	ALLEGHENY COUNTY SANITARY AUTHORITY REGIONAL CONVEYANCE SYSTEM MISCELLANEOUS FLAP GATE, SLUICE GATE, AND VALVE REPLACEMENTS AT VARIOUS LOCATIONS S-01A SLUICE GATE REPLACEMENT STRUCTURAL PLAN AND SECTION NEW WORK	Contract: 1818
Drawn by: S.VOETTINER/ C.SZCZYPINSKI	1	9/2/2025	ISSUED FOR BID						CAD File Name: 1818-S-01A-PLSC-03.DWG
Checked by: D.TROIANOS									Date: 06/11/2025
									Sheet: 32 of 68



EXISTING ROUND BOTTOM SLUICE GATE
SMR-01 EAST CHAMBER

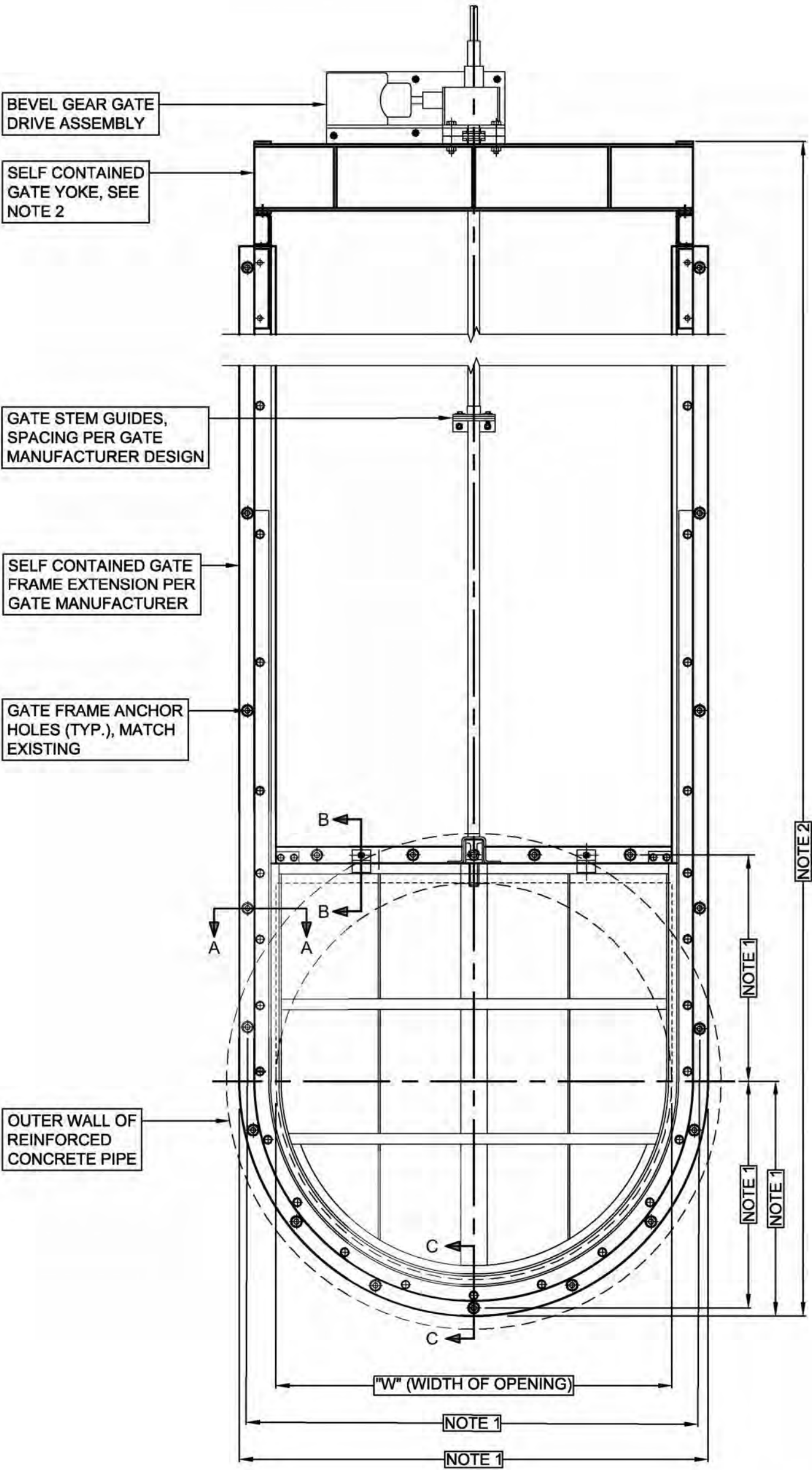


EXISTING ROUND BOTTOM SLUICE GATE
SMR-01 WEST CHAMBER

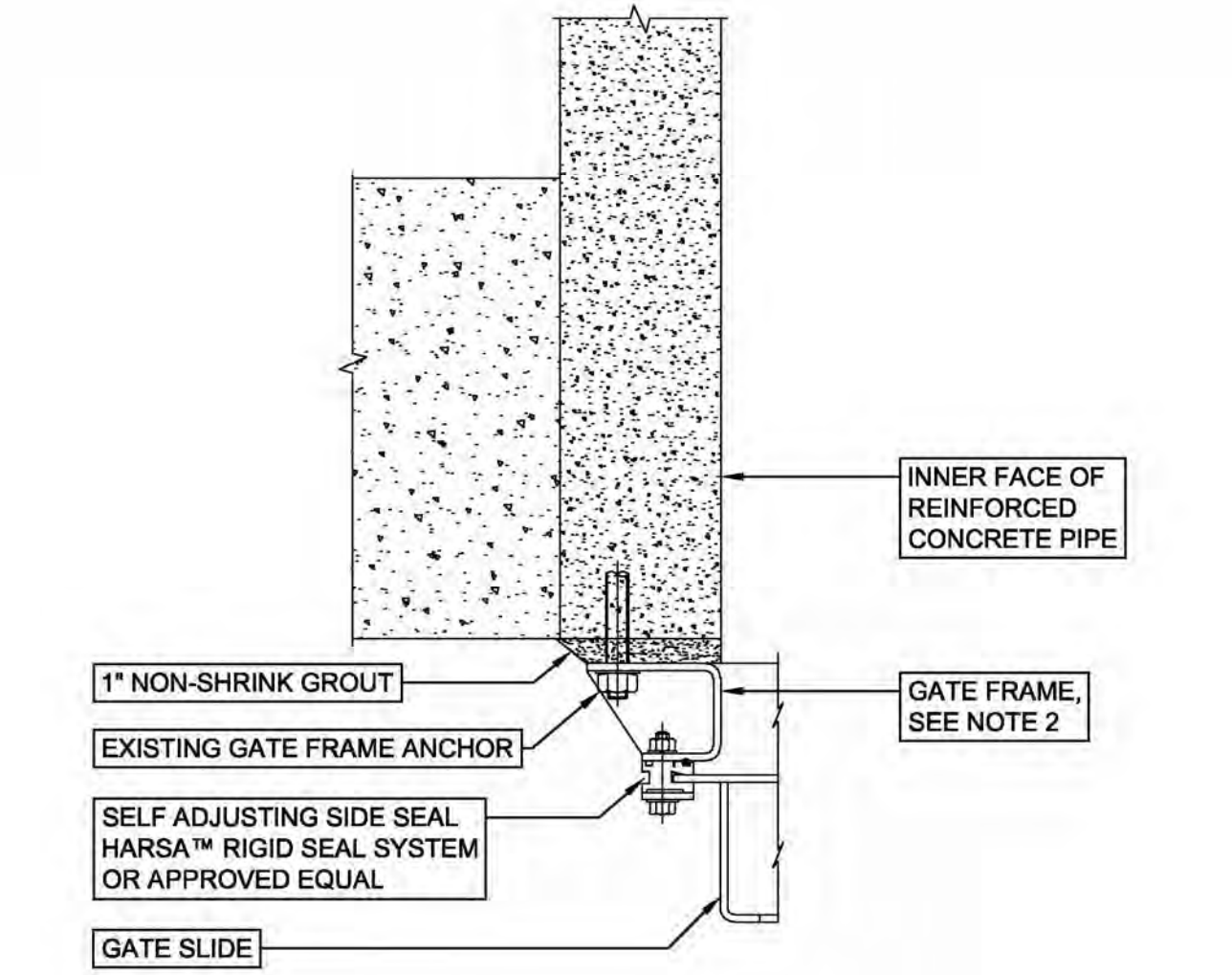


EXAMPLE EXISTING ROUND BOTTOM
FABRICATED SLUICE GATE

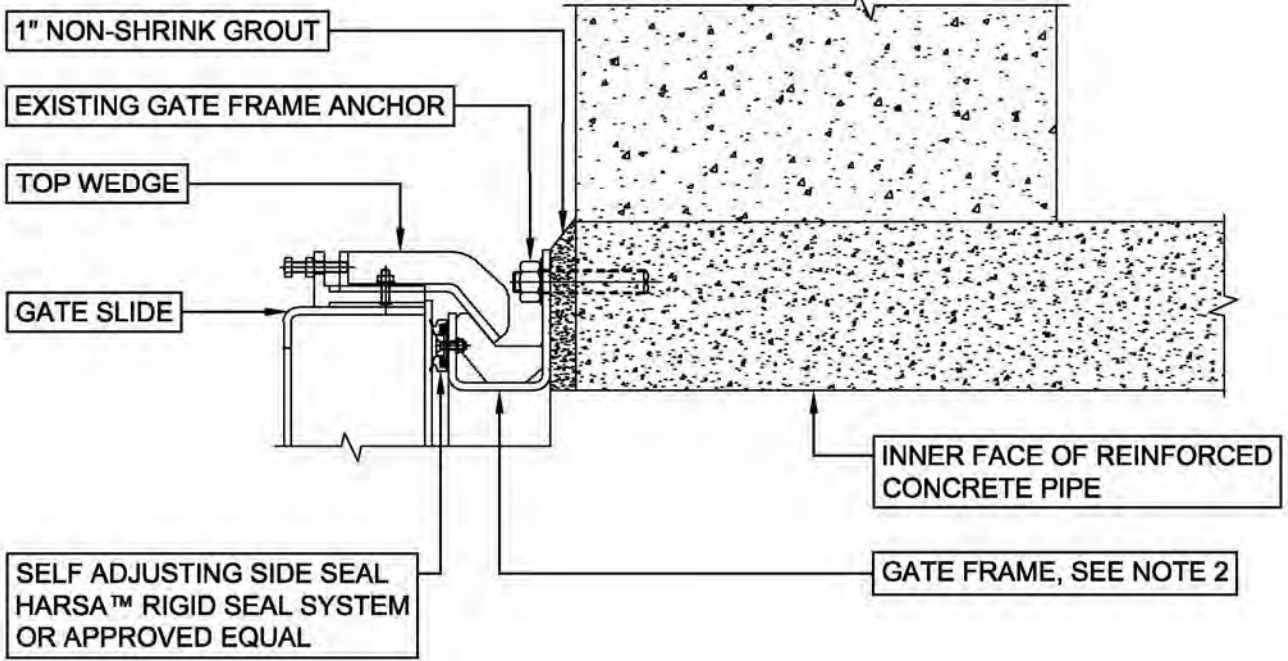
KEYED GATE DIMENSIONS				
GATE TAG NO.	"W" (IN.)	"H" (IN.)	"B" (FT.)	"E" (IN.)
S-01A EC	48"	48"	22.19'	5-3/8"
S-01A WC	42"	42"	18.81'	5-3/8"



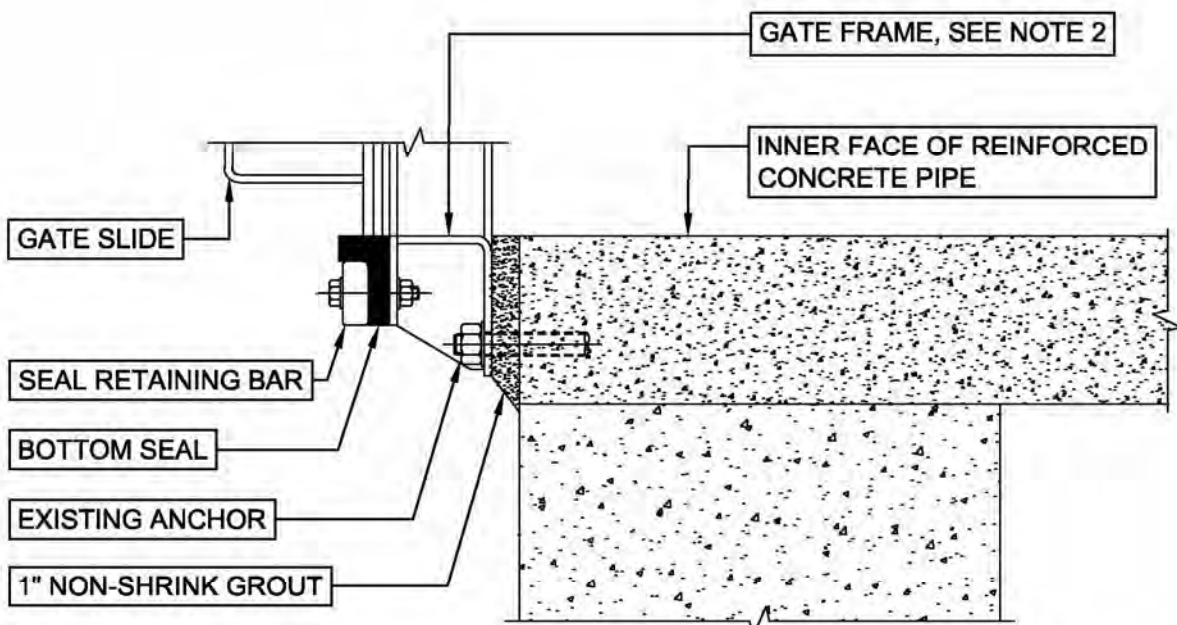
FRONT VIEW
N.T.S.



SECTION A-A
N.T.S.

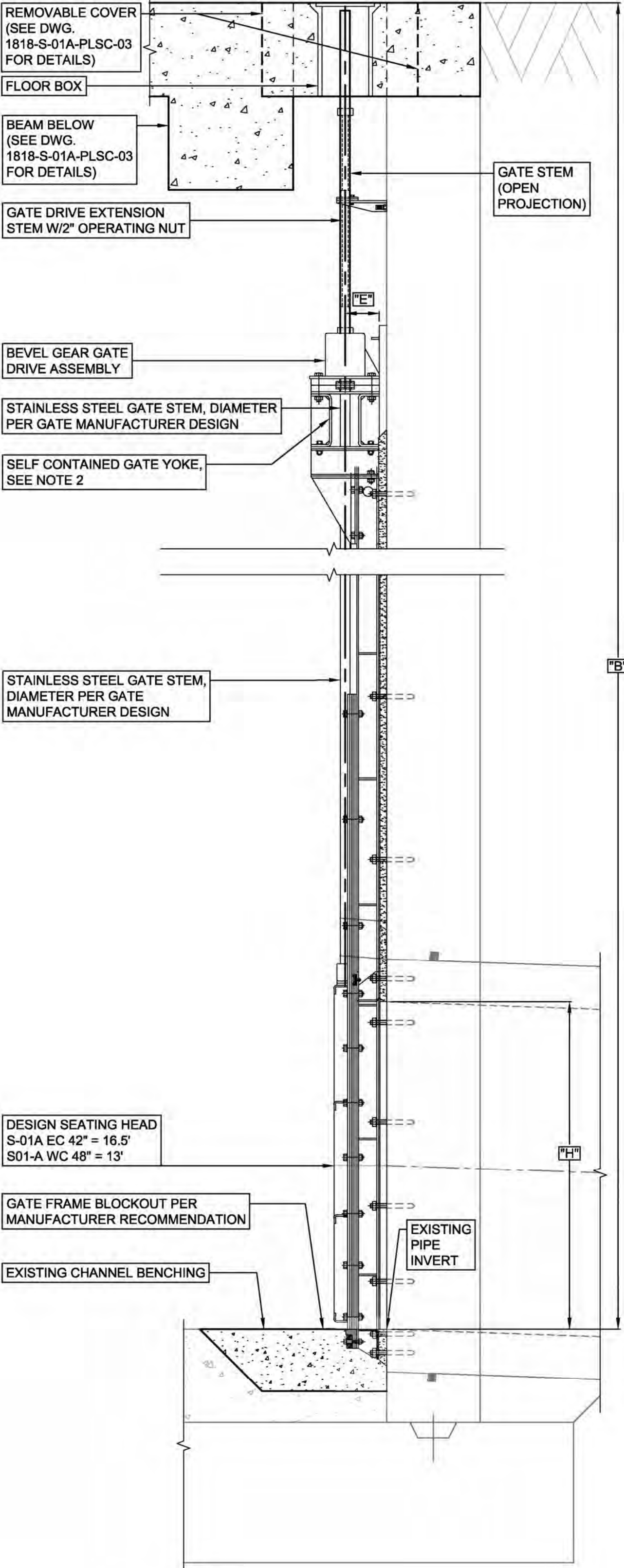


SECTION B-B
N.T.S.



SECTION C-C
N.T.S.

- NOTES:
- CONTRACTOR TO COORDINATE WITH GATE MANUFACTURE TO PROVIDE FLANGE WIDTH SUITABLE FOR REUSE OF EXISTING GATE FRAME ANCHORS
 - TOP OF YOKE ELEVATION TO BE COORDINATED WITH GATE DRIVE ASSEMBLY TO ALLOW FOR GATE STEM FLOOR BOX LID TO BE IN-PLACE WHEN GATE IS IN FULLY OPEN POSITION.



TYPICAL PARTIAL CHAMBER SECTION
N.T.S.

FABRICATED STAINLESS STEEL ROUND BOTTOM SLUICE GATE TYPICAL DETAILS

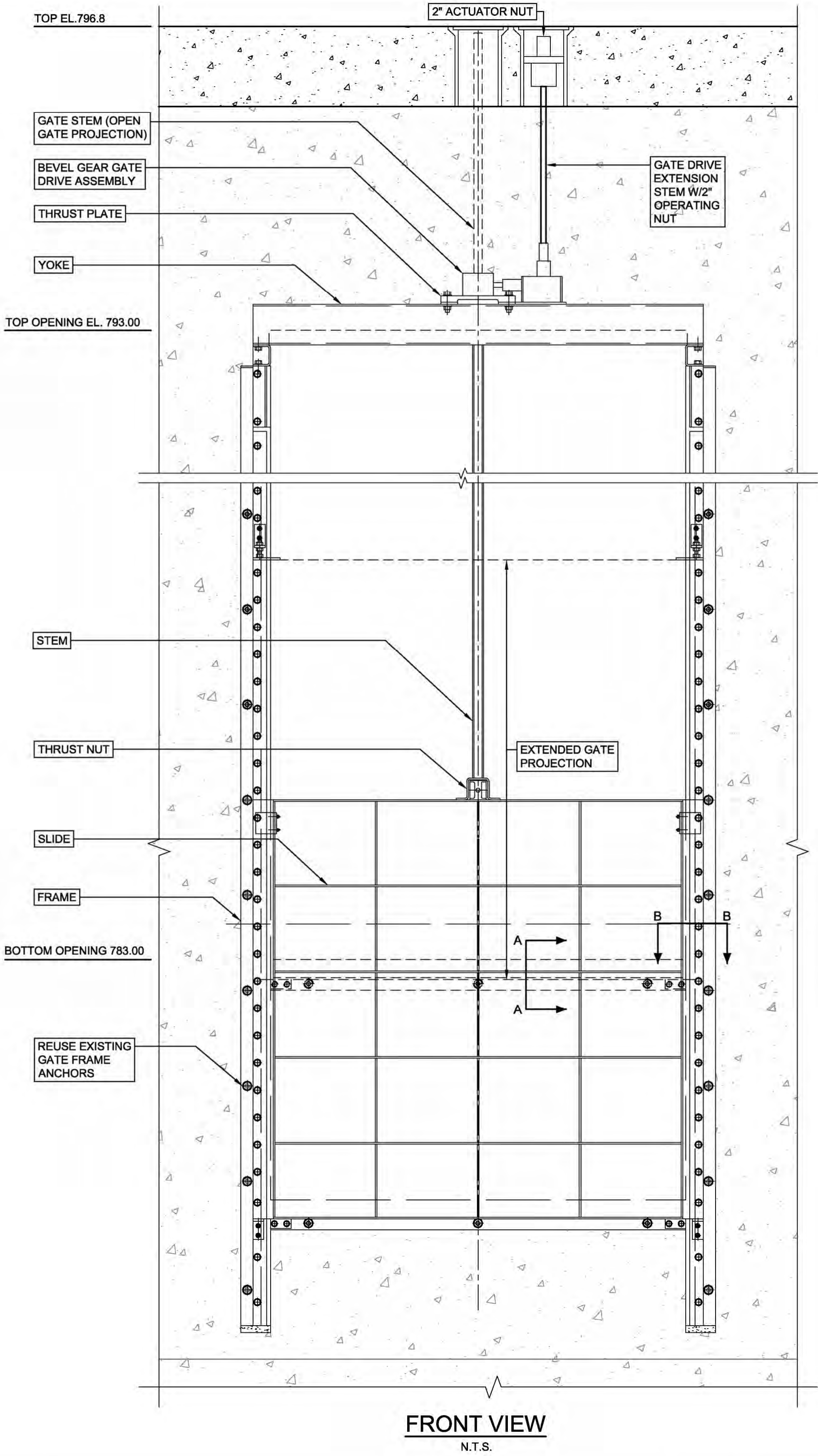
Designed by: E.WOLFF	REVISION				APPV
	REV No.	DATE	DESCRIPTION		
Drawn by: S.VOETTINER	1	9/2/2025	ISSUED FOR BID		
Checked by: D.TROIANOS					

 gai consultants		 alleggheny county sanitary authority	ARLETTA SCOTT WILLIAMS EXECUTIVE DIRECTOR, ALCOSAN	ALLEGHENY COUNTY SANITARY AUTHORITY REGIONAL CONVEYANCE SYSTEM MISCELLANEOUS FLAP GATE, SLUICE GATE, AND VALVE REPLACEMENTS AT VARIOUS LOCATIONS	Contract: 1818			
					CAD File Name: 1818-S-01A-DET-01.DWG			
						3300 PREBLE AVE. PITTSBURGH, PA 15233 (412) 766 - 4810	S-01A SLUICE GATE REPLACEMENT DETAILS AND SECTIONS	Date: 06/11/2025
						www.alcosan.org		Sheet: 33 of 68

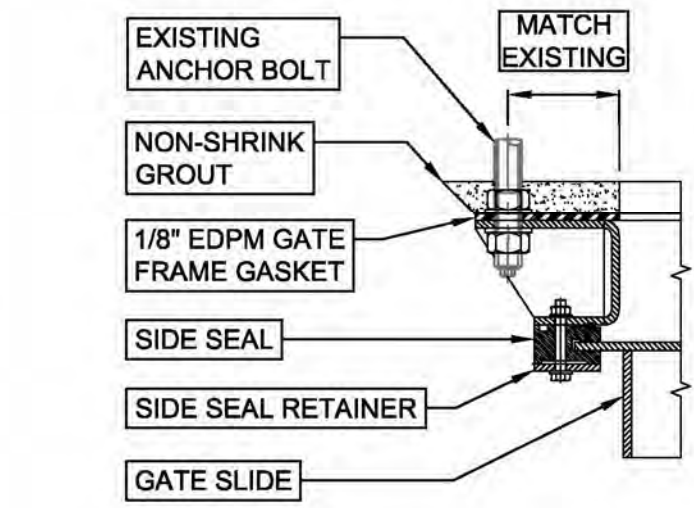
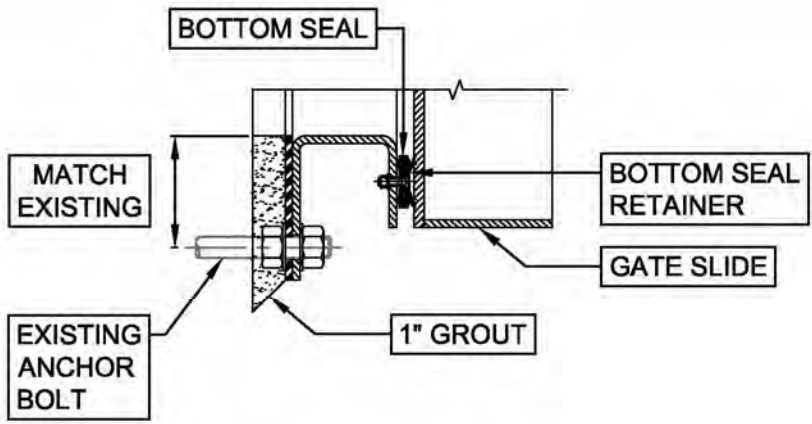


EXISTING WEIR GATE
S-01A OVERFLOW CHAMBER

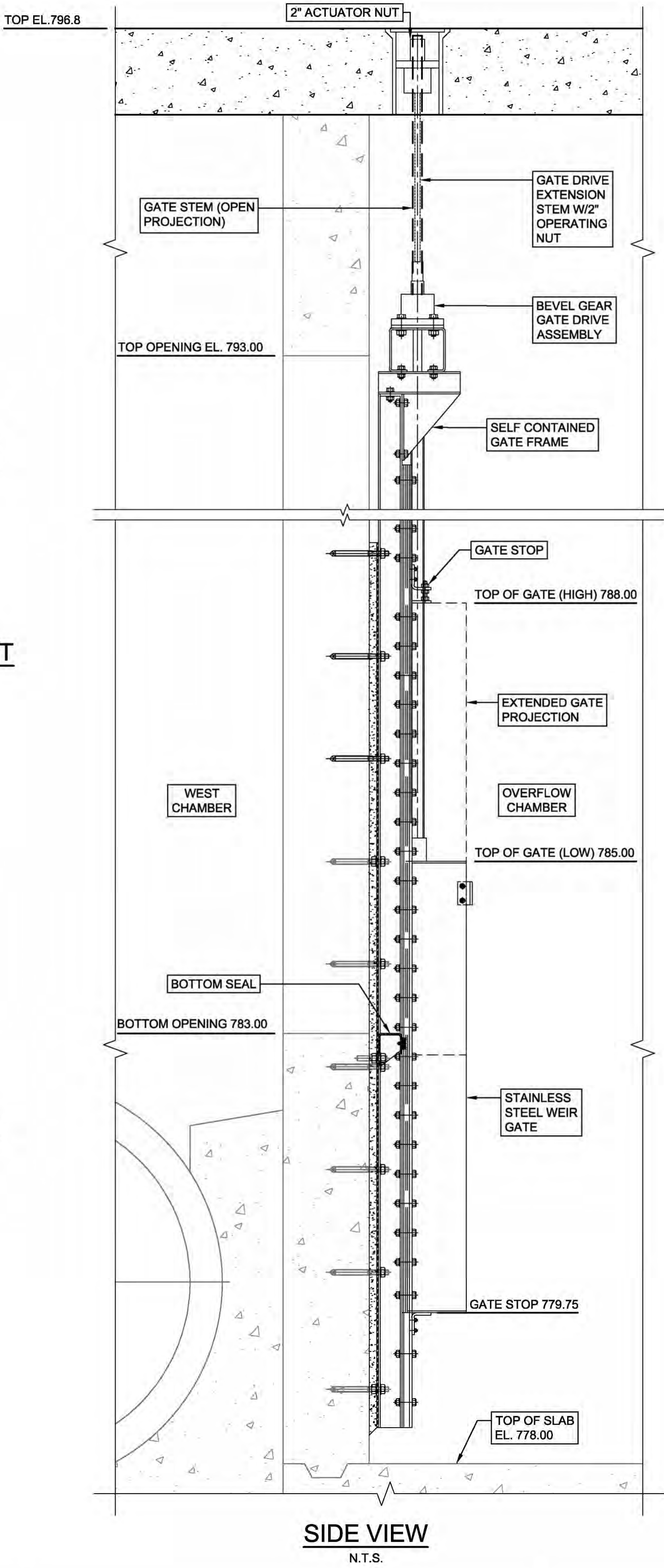
NOTE:
ALL METAL TO BE 304L STAINLESS STEEL UNLESS OTHERWISE NOTED.



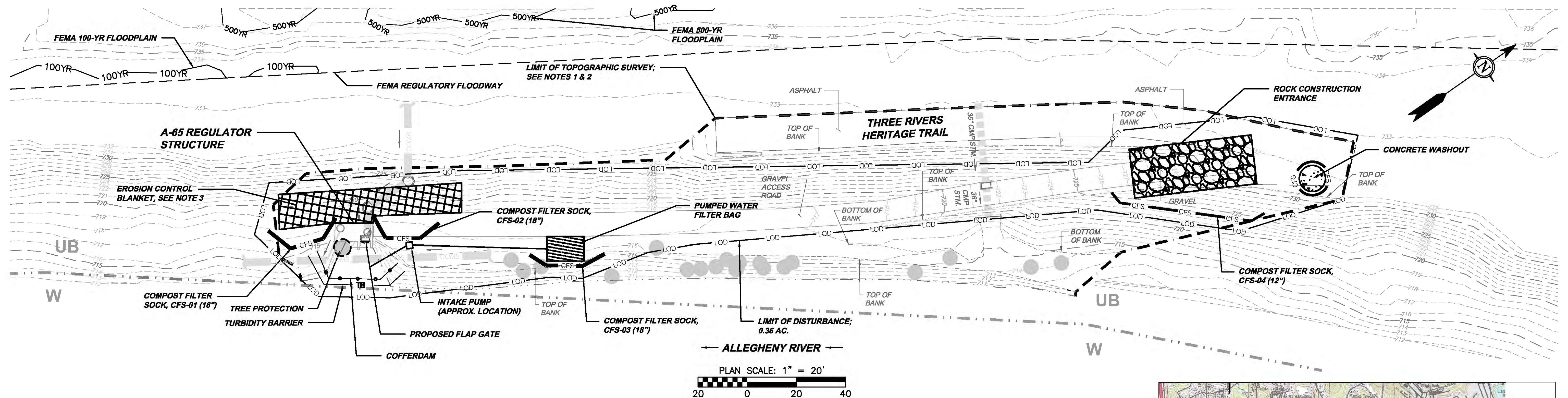
SECTION A-A
BOTTOM SEALING ARRANGEMENT
N.T.S.



SECTION B-B
SIDE SEALING ARRANGEMENT
N.T.S.



Designed by:	REVISION				 gai consultants		 alleggheny county sanitary authority www.alcosan.org	ARLETTA SCOTT WILLIAMS EXECUTIVE DIRECTOR, ALCOSAN 3300 PREBLE AVE. PITTSBURGH, PA 15233 (412) 766 - 4810	ALLEGHENY COUNTY SANITARY AUTHORITY REGIONAL CONVEYANCE SYSTEM MISCELLANEOUS FLAP GATE, SLUICE GATE, AND VALVE REPLACEMENTS AT VARIOUS LOCATIONS S-01A WEIR GATE REPLACEMENT DETAILS AND SECTIONS	Contract:
E.WOLFF	REV No.	DATE	DESCRIPTION	APPV						1818
Drawn by:		9/2/2025	ISSUED FOR BID							CAD File Name:
S.VOETTINER										1818-S-01A-DET-02.DWG
Checked by:										Date:
D.TROIANOS										06/11/2025
										Sheet:
					34 of 68					



Designed by:	REVISION				 Collective Efforts, LLC Civil and Environmental Engineers 1000 West View Park Drive, Suite 7 Pittsburgh, PA 15229 412.459.0114 www.collectiveefforts.com	 gai consultants		 ARLETTA SCOTT WILLIAMS EXECUTIVE DIRECTOR, ALCOSAN 3300 PREBLE AVE. PITTSBURGH, PA 15233 (412) 766 - 4810 www.alcosan.org	ALLEGHENY COUNTY SANITARY AUTHORITY REGIONAL CONVEYANCE SYSTEM MISCELLANEOUS FLAP GATE, SLUICE GATE, AND VALVE REPLACEMENTS AT VARIOUS LOCATIONS	Contract: 1818
M.STEVENS	REV No.	DATE	DESCRIPTION	APPV					CAD File Name: 1818-A-65-ES-01.DWG	
Drawn by:									Date: 06/11/2025	
M.STEVENS									Sheet: 35 of 68	
Checked by:										
C.CASADEI										

GENERAL NOTES:

- ALL EARTH DISTURBANCES, INCLUDING CLEARING AND GRUBBING AS WELL AS CUTS AND FILLS SHALL BE DONE IN ACCORDANCE WITH THE APPROVED E&S PLAN. A COPY OF THE APPROVED DRAWINGS MUST BE AVAILABLE AT THE PROJECT SITE AT ALL TIMES. THE REVIEWING AGENCY SHALL BE NOTIFIED OF ANY CHANGES TO THE APPROVED PLAN PRIOR TO IMPLEMENTATION OF THOSE CHANGES. THE REVIEWING AGENCY MAY REQUIRE A WRITTEN SUBMITTAL OF THOSE CHANGES FOR REVIEW AND APPROVAL AT ITS DISCRETION.
- AT LEAST 3 DAYS PRIOR TO STARTING ANY EARTH DISTURBANCE ACTIVITIES, OR EXPANDING INTO AN AREA PREVIOUSLY UNMARKED, THE PENNSYLVANIA ONE CALL SYSTEM INC. SHALL BE NOTIFIED AT 1-800-242-1776 FOR THE LOCATION OF EXISTING UNDERGROUND UTILITIES.
- ALL EARTH DISTURBANCE ACTIVITIES SHALL PROCEED IN ACCORDANCE WITH THE SEQUENCE PROVIDED ON THE PLAN DRAWINGS. DEVIATION FROM THAT SEQUENCE MUST BE APPROVED IN WRITING FROM THE DEPARTMENT PRIOR TO IMPLEMENTATION.
- CLEARING, GRUBBING, AND TOPSOIL STRIPPING SHALL BE LIMITED TO THOSE AREAS DESCRIBED IN EACH STAGE OF THE CONSTRUCTION SEQUENCE. GENERAL SITE CLEARING, GRUBBING AND TOPSOIL STRIPPING MAY NOT COMMENCE IN ANY STAGE OR PHASE OF THE PROJECT UNTIL THE E&S BMPs SPECIFIED BY THE BMP SEQUENCE FOR THAT STAGE OR PHASE HAVE BEEN INSTALLED AND ARE FUNCTIONING AS DESCRIBED IN THIS E&S PLAN.
- AT NO TIME SHALL CONSTRUCTION VEHICLES BE ALLOWED TO ENTER AREAS OUTSIDE THE LIMIT OF DISTURBANCE BOUNDARIES SHOWN ON THE PLAN MAPS. THESE AREAS MUST BE CLEARLY MARKED AND FENCED OFF BEFORE CLEARING AND GRUBBING OPERATIONS BEGIN.
- IMMEDIATELY UPON DISCOVERING UNFORESEEN CIRCUMSTANCES POSING THE POTENTIAL FOR ACCELERATED EROSION AND/OR SEDIMENT POLLUTION, THE OPERATOR SHALL IMPLEMENT APPROPRIATE BEST MANAGEMENT PRACTICES TO MINIMIZE THE POTENTIAL FOR EROSION AND SEDIMENT POLLUTION AND NOTIFY THE REGIONAL OFFICE OF THE DEPARTMENT.
- ALL BUILDING MATERIALS AND WASTES SHALL BE REMOVED FROM THE SITE AND RECYCLED OR DISPOSED OF IN ACCORDANCE WITH THE DEPARTMENT'S SOLID WASTE MANAGEMENT REGULATIONS AT 25 PA. CODE 260.1 ET SEQ., 271.1, AND 287.1 ET. SEQ. NO BUILDING MATERIALS OR WASTES OR UNUSED BUILDING MATERIALS SHALL BE BURNED, BURIED, DUMPED, OR DISCHARGED AT THE SITE.
- ALL OFF-SITE WASTE AND BORROW AREAS MUST HAVE AN E&S PLAN APPROVED BY THE DEPARTMENT FULLY IMPLEMENTED PRIOR TO BEING ACTIVATED.
- THE CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT ANY MATERIAL BROUGHT ON SITE IS CLEAN FILL. FORM FP-001 MUST BE RETAINED BY THE PROPERTY OWNER FOR ANY FILL MATERIAL AFFECTED BY A SPILL OR RELEASE OF A REGULATED SUBSTANCE BUT QUALIFYING AS CLEAN FILL DUE TO ANALYTICAL TESTING.
- ALL PUMPING OF WATER FROM ANY WORK AREA SHALL BE DONE ACCORDING TO THE PROCEDURE DESCRIBED IN THIS PLAN, OVER UNDISTURBED VEGETATED AREAS.
- UNTIL THE SITE IS STABILIZED, ALL EROSION AND SEDIMENT BMPs SHALL BE MAINTAINED PROPERLY. MAINTENANCE SHALL INCLUDE INSPECTIONS OF ALL EROSION AND SEDIMENT BMPs AFTER EACH RUNOFF EVENT AND ON A WEEKLY BASIS. ALL PREVENTIVE AND REMEDIAL MAINTENANCE WORK, INCLUDING CLEAN OUT, REPAIR, REPLACEMENT, REGRADING, RESEEDING, REMULCHING AND RENETTING MUST BE PERFORMED IMMEDIATELY. IF THE E&S BMPs FAIL TO PERFORM AS EXPECTED, REPLACEMENT BMPs, OR MODIFICATIONS OF THOSE INSTALLED WILL BE REQUIRED.
- IT IS RECOMMENDED THAT A LOG SHOWING DATES THAT E&S BMPs WERE INSPECTED AS WELL AS ANY FINDINGS FOUND AND THE DATES THEY WERE CORRECTED BE MAINTAINED ON THE SITE AND BE MADE AVAILABLE TO REGULATORY AGENCY OFFICIALS AT THE TIME OF INSPECTION.
- SEDIMENT TRACKED ONTO ANY PUBLIC ROADWAY OR SIDEWALK SHALL BE RETURNED TO THE CONSTRUCTION SITE BY THE END OF EACH WORK DAY AND DISPOSED IN THE MANNER DESCRIBED IN THIS PLAN. IN NO CASE SHALL THE SEDIMENT BE WASHED, SHOVELED, OR SWEEP INTO ANY ROADSIDE DITCH, STORM SEWER, OR SURFACE WATER.
- ALL SEDIMENT REMOVED FROM BMPs SHALL BE DISPOSED OF IN THE MANNER DESCRIBED ON THE PLAN DRAWINGS.
- AREAS WHICH ARE TO BE TOPSOILED SHALL BE SCARIFIED TO A MINIMUM DEPTH OF 3 TO 5 INCHES -- 6 TO 12 INCHES ON COMPACTED SOILS -- PRIOR TO PLACEMENT OF TOPSOIL. AREAS TO BE VEGETATED SHALL HAVE A MINIMUM 4 INCHES OF TOPSOIL IN PLACE PRIOR TO SEEDING AND MULCHING. FILL OUTSLOPES SHALL HAVE A MINIMUM OF 2 INCHES OF TOPSOIL.
- ALL FILLS SHALL BE COMPACTED AS REQUIRED TO REDUCE EROSION, SLIPPAGE, SETTLEMENT, SUBSIDENCE OR OTHER RELATED PROBLEMS. FILL INTENDED TO SUPPORT BUILDINGS, STRUCTURES AND CONDUITS, ETC. SHALL BE COMPACTED IN ACCORDANCE WITH LOCAL REQUIREMENTS OR CODES.
- ALL EARTHEN FILLS SHALL BE PLACED IN COMPACTED LAYERS NOT TO EXCEED 9 INCHES IN THICKNESS.
- FILL MATERIALS SHALL BE FREE OF FROZEN PARTICLES, BRUSH, ROOTS, SOD, OR OTHER FOREIGN OR OBJECTIONABLE MATERIALS THAT WOULD INTERFERE WITH OR PREVENT CONSTRUCTION OF SATISFACTORY FILLS.
- FROZEN MATERIALS OR SOFT, MUCKY, OR HIGHLY COMPRESSIBLE MATERIALS SHALL NOT BE INCORPORATED INTO FILLS.
- FILL SHALL NOT BE PLACED ON SATURATED OR FROZEN SURFACES.
- ALL GRADED AREAS SHALL BE PERMANENTLY STABILIZED IMMEDIATELY UPON REACHING FINISHED GRADE. CUT SLOPES IN COMPETENT BEDROCK AND ROCK FILLS NEED NOT BE VEGETATED. SEEDED AREAS WITHIN 100 FEET OF A SURFACE WATER, OR AS OTHERWISE SHOWN ON THE PLAN DRAWINGS, SHALL BE BLANKETED ACCORDING TO THE STANDARDS OF THIS PLAN.
- IMMEDIATELY AFTER EARTH DISTURBANCE ACTIVITIES CEASE IN ANY AREA OR SUBAREA OF THE PROJECT, THE OPERATOR SHALL STABILIZE ALL DISTURBED AREAS. DURING NON-GERMINATING MONTHS, MULCH, ROCK BANK ARMORING, OR PROTECTIVE BLANKETING SHALL BE APPLIED AS DESCRIBED IN THE PLAN. AREAS NOT AT FINISHED GRADE, WHICH WILL BE REACTIVATED WITHIN 1 YEAR, MAY BE STABILIZED IN ACCORDANCE WITH THE TEMPORARY STABILIZATION SPECIFICATIONS. THOSE AREAS WHICH WILL NOT BE REACTIVATED WITHIN 1 YEAR SHALL BE STABILIZED IN ACCORDANCE WITH THE PERMANENT STABILIZATION SPECIFICATIONS.
- PERMANENT STABILIZATION IS DEFINED AS A MINIMUM UNIFORM, PERENNIAL 70% VEGETATIVE COVER OR OTHER PERMANENT NON-VEGETATIVE COVER WITH A DENSITY SUFFICIENT TO RESIST ACCELERATED EROSION. CUT AND FILL SLOPES SHALL BE CAPABLE OF RESISTING FAILURE DUE TO SLUMPING, SLIDING, OR OTHER MOVEMENTS.
- E&S BMPs SHALL REMAIN FUNCTIONAL AS SUCH UNTIL ALL AREAS TRIBUTARY TO THEM ARE PERMANENTLY STABILIZED OR UNTIL THEY ARE REPLACED BY ANOTHER BMP APPROVED BY THE DEPARTMENT.
- AFTER FINAL SITE STABILIZATION HAS BEEN ACHIEVED, TEMPORARY EROSION AND SEDIMENT BMPs MUST BE REMOVED. AREAS DISTURBED DURING REMOVAL OR CONVERSION OF THE BMPs SHALL BE STABILIZED IMMEDIATELY. IN ORDER TO ENSURE RAPID REVEGETATION OF DISTURBED AREAS, SUCH REMOVAL / CONVERSIONS ARE TO BE DONE ONLY DURING THE GERMINATING SEASON.
- FAILURE TO CORRECTLY INSTALL E&S BMPs, FAILURE TO PREVENT SEDIMENT-LADEN RUNOFF FROM LEAVING THE CONSTRUCTION SITE, OR FAILURE TO TAKE IMMEDIATE CORRECTIVE ACTION TO RESOLVE FAILURE OF E&S BMPs MAY RESULT IN ADMINISTRATIVE, CIVIL, AND/OR CRIMINAL PENALTIES BEING INSTITUTED BY THE DEPARTMENT AS DEFINED IN SECTION 602 OF THE PENNSYLVANIA CLEAN STREAMS LAW. THE CLEAN STREAMS LAW PROVIDES FOR UP TO \$10,000 PER DAY IN CIVIL PENALTIES, UP TO \$10,000 IN SUMMARY CRIMINAL PENALTIES, AND UP TO \$25,000 IN MISDEMEANOR CRIMINAL PENALTIES FOR EACH VIOLATION.

RECYCLING AND DISPOSAL PROCEDURES OF CONSTRUCTION WASTES

- ALL OFF-SITE WASTE AND BORROW AREAS MUST HAVE AN E&S CONTROL PLAN APPROVED BY THE PADEP FULLY IMPLEMENTED PRIOR TO BEING ACTIVATED. GARBAGE IS TO BE REMOVED FROM THE SITE DAILY BY THE CONTRACTOR.
- THE CONTRACTOR WILL DISPOSE OF ALL OTHER SCRAP MATERIAL THE SCRAP MATERIAL MUST BE REMOVED FROM THE SITE DAILY AND DISPOSED OF OR RECYCLED AT A PROPERLY LICENSED/PERMITTED FACILITY. THE CONTRACTOR WILL BE RESPONSIBLE FOR ANY PERMITS AND/OR DISPOSAL FEES. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE TO ASSURE THAT ALL MATERIALS ARE HANDLED AND DISPOSED OF IN ACCORDANCE WITH APPLICABLE LAWS, RULES, AND REGULATIONS, INCLUDING, BUT NOT LIMITED TO THOSE ISSUED BY THE ENVIRONMENTAL PROTECTION AGENCY, PADEP, AND THE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION.
- ALL WASTE OR EXCESS MATERIALS NOT SUITABLE FOR THE ON-SITE STOCKPILE OR BACKFILL SHALL BE DISPOSED OF IN ACCORDANCE WITH THE DEPARTMENT'S SOLID WASTE MANAGEMENT REGULATIONS AT 25 PA. CODE CHAPTER 260 §260.1 ET SEQ., 271.1 AND 287.1 ET. SEQ. AT THE PADEP-APPROVED WASTE SITE WHERE FEASIBLE CONSTRUCTION WASTE MATERIALS WILL BE RECYCLED OR WILL BE TAKEN TO THE NEAREST PADEP APPROVED FACILITY FOR DISPOSAL. EXCESS SOIL MATERIAL IF ANY WILL BE SPREAD AND REVEGETATED WITHIN THE ROW. OFF-SITE SPOIL AND/OR BORROW SITES MUST BE OPERATED UNDER A CURRENT NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM PERMIT.

PERSONS RESPONSIBLE FOR CONSTRUCTION AND OFF SITE DISPOSAL REQUIREMENTS

- IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE SATISFACTORY SOIL E&SC AND TO INTERFACE WITH APPLICABLE REGULATORY AGENCIES.
- THE CONTRACTOR IS RESPONSIBLE FOR HAVING AN APPROVED E&SC PLAN AND FOR CONFIRMING THAT AN ACTIVE E&SC PERMIT EXISTS FOR ANY OFF-SITE BORROW AREA LOCATIONS. IF OFF-SITE DISPOSAL IS REQUIRED, DISPOSAL MUST OCCUR AT A SITE APPROVED BY THE PADEP. PROOF OF THESE PERMISSIONS MUST BE PROVIDED TO THE OWNER AND APPLICABLE REGULATORY AGENCIES PRIOR TO USE. ALL FILL MATERIAL MUST BE USED IN ACCORDANCE WITH THE PADEP'S POLICY "MANAGEMENT OF FILL" DOCUMENT NUMBER 258-2182-773. ENVIRONMENTAL DUE DILIGENCE IS DEFINED AS: INVESTIGATIVE TECHNIQUES, INCLUDING, BUT NOT LIMITED TO, VISUAL PROPERTY INSPECTIONS, ELECTRONIC DATA BASE SEARCHES, REVIEW OF PROPERTY OWNERSHIP, REVIEW OF PROPERTY USE HISTORY, SANBORN MAPS, ENVIRONMENTAL QUESTIONNAIRES, TRANSACTION SCREENS, ANALYTICAL TESTING, ENVIRONMENTAL ASSESSMENTS OR AUDITS.
- IN THE EVENT THE CONTRACTOR WISHES TO MODIFY THE E&SC PLAN, A COPY OF THE REVISED E&SC MUST BE SUBMITTED TO THE ENGINEER AND ALCOSAN FOR APPROVAL.

MAINTENANCE PROGRAM

- AFTER CONSTRUCTION IS COMPLETED AND SITE HAS REACHED PERMANENT STABILIZATION, ALL TEMPORARY BMPs WILL BE REMOVED AND ANY LAND DISTURBED BY REMOVAL WILL BE PERMANENTLY STABILIZED, UNLESS OTHERWISE SPECIFIED. MAINTENANCE MUST BE COMPLETED IMMEDIATELY AFTER AN INSPECTION IDENTIFIES THAT A BMP IS NOT FUNCTIONING.
- IF CONCENTRATED FLOW AREAS FORM DUE TO ANY STORM EVENT AND ANY AREA BECOMES UNSTABLE, THE AREA SHALL BE STABILIZED BY INSTALLING ADDITIONAL BMPs IN THE CONCENTRATED FLOW AREAS. ANY REQUIRED REPAIRS OR MAINTENANCE SHALL BE MADE IMMEDIATELY.
- THE CONTRACTOR SHALL ASSESS THE WORKING CONDITION OF THE E&S MEASURES AT LEAST WEEKLY AND AFTER EACH MEASURABLE RUNOFF EVENT (GREATER THAN ONE-QUARTER INCH IN 24 HOURS OR ANY SIGNIFICANT THAW EVENT). DAMAGED, BLOCKED, OR OTHERWISE COMPROMISED MEASURES OBSERVED DURING THE INSPECTION SHALL BE REPAIRED IMMEDIATELY.
- SEDIMENT BARRIERS SHALL BE INSPECTED WEEKLY AND AFTER EACH MEASURABLE RUNOFF EVENT. BARRIERS SHALL BE INSPECTED TO ENSURE THEY HAVE NOT BEEN DISLODGED OR BROKEN. SEDIMENT SHALL BE REMOVED WHEN ACCUMULATIONS REACH (1/2) ONE-HALF THE ABOVEGROUND HEIGHT OF THE BARRIER. DAMAGED BARRIER SHALL BE REPAIRED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS, OR REPLACED WITHIN TWENTY-FOUR (24) HOURS OF INSPECTION. EROSION AND UNDERCUTTING OF SEDIMENT BARRIER SHALL BE PROMPTLY REPAIRED.
- IF USED DURING CONSTRUCTION, BIODEGRADABLE FILTER SOCK SHALL BE REPLACED AFTER SIX (6) MONTHS; PHOTODEGRADABLE SOCKS AFTER ONE (1) YEAR; POLYPROPYLENE SOCKS SHALL BE REPLACED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. STAKES SHALL BE REMOVED FROM SOCKS UPON STABILIZATION OF THE AREAS TRIBUTARY TO A SOCK. SOCK MAY BE LEFT IN PLACE AND VEGETATED, OR REMOVED. IF LEFT IN PLACE, THE MESH SHALL BE CUT OPEN AND THE MULCH SPREAD AS A SOIL SUPPLEMENT.
- IT IS RECOMMENDED THAT A LOG SHOWING DATES THAT E&S BMPs WERE INSPECTED AS WELL AS ALL DEFICIENCIES FOUND AND THE DATE THEY WERE CORRECTED BE MAINTAINED ON THE SITE AND BE MADE AVAILABLE TO REGULATORY AGENCY OFFICIALS AT THE TIME OF INSPECTION.
- RE-VEGETATED AREAS SHALL BE INSPECTED FOR ADEQUATE VEGETATIVE COVER. AREAS EXHIBITING STRESSED VEGETATION OR SIGNS OF EROSION SHALL HAVE THE SEEDBED PREPARED AND HAVE SEED AND MULCH RE-APPLIED. ADDITIONAL MAINTENANCE ITEMS ARE OUTLINED IN THE "INSPECTION AND MAINTENANCE TABLE."
- ALL BMPs SHALL BE INSPECTED, MAINTAINED, AND REPAIRED AS NEEDED TO ASSURE CONTINUED PERFORMANCE OF THEIR INTENDED FUNCTION. WHENEVER INSPECTION AND/OR MONITORING REVEALS THAT THE BMPs IDENTIFIED IN THE E&S PLAN ARE INADEQUATE, THE E&S PLAN SHALL BE MODIFIED, AS APPROPRIATE, IN A TIMELY MANNER. DAMAGED BMPs WILL BE REPAIRED OR REPLACED AS SOON AS PRACTICABLE, BUT NO MORE THAN SEVENTY-TWO (72) HOURS AFTER DISCOVERING THE DAMAGE. ANY SPILLAGE OR DISCHARGE OF POLLUTANTS SHALL BE REPORTED WITHIN TWENTY-FOUR (24) HOURS.
- MAINTENANCE AND REPAIR OF HEAVY EQUIPMENT AND VEHICLES INVOLVING OIL CHANGES, HYDRAULIC SYSTEM DRAIN DOWN, SOLVENT AND DE-GREASING CLEANING OPERATIONS, FUEL TANK DRAIN DOWN AND REMOVAL, AND OTHER ACTIVITIES WHICH MAY RESULT IN DISCHARGE OR SPILLAGE OF POLLUTANTS TO THE GROUND OR INTO SURFACE WATER RUNOFF MUST BE CONDUCTED USING SPILL PREVENTION MEASURES, SUCH AS DRIP PANS. CONTAMINATED SURFACES SHALL BE CLEANED IMMEDIATELY FOLLOWING ANY DISCHARGE OR SPILL INCIDENT. CONTAMINATED SOIL MUST BE DISPOSED OF PROPERLY. EMERGENCY REPAIRS MAY BE PERFORMED ON-SITE USING TEMPORARY PLASTIC PLACED BENEATH AND, IF RAINING, OVER THE VEHICLE.
- THE E&S PLAN SHALL BE RETAINED ON-SITE. THE E&S PLAN SHALL BE MODIFIED WHENEVER THERE IS A SIGNIFICANT CHANGE IN THE DESIGN, CONSTRUCTION, OPERATION, OR MAINTENANCE OF ANY BMP. THE PADEP MUST BE NOTIFIED OF ANY CHANGES. DEPENDING ON THE SIGNIFICANCE OF THE REVISION, A PERMIT MODIFICATION MAY NEED TO BE SUBMITTED TO THE PADEP.
- AFTER FINAL SITE STABILIZATION HAS BEEN ACHIEVED OR AFTER TEMPORARY BMPs ARE NO LONGER NEEDED, TEMPORARY EROSION AND SEDIMENTATION CONTROLS MUST BE REMOVED WITHIN THIRTY (30) DAYS. ACCUMULATED SEDIMENT SHALL BE REMOVED OR STABILIZED ON SITE. AREAS DISTURBED DURING REMOVAL OF THE CONTROLS MUST BE STABILIZED IMMEDIATELY.
- INSPECT DISCHARGE LOCATIONS TO ASCERTAIN EFFECTIVENESS OF CONTROLS. IMPLEMENT ADDITIONAL CONTROL MEASURES AS NEEDED.
- UPON FINAL COMPLETION OF AN EARTH DISTURBANCE ACTIVITY OR ANY STAGE OR PHASE OF AN ACTIVITY, THE SITE SHALL IMMEDIATELY HAVE TOPSOIL RESTORED, REPLACED, OR AMENDED, SEEDED, MULCHED OR OTHERWISE PERMANENTLY STABILIZED AND PROTECTED FROM ACCELERATED EROSION AND SEDIMENTATION.

EROSION AND SEDIMENT CONTROL RECOMMENDED SEQUENCE OF CONSTRUCTION

- CONTACT PENNSYLVANIA ONE-CALL SYSTEM AT 1-800-242-1776 PRIOR TO ANY DIGGING, DRILLING, BLASTING, OR EXCAVATION.
- CLEARLY DELINEATE THE LIMITS OF DISTURBANCE AND MARK PERTINENT SITE FEATURES (I.E. BMP LOCATIONS, ETC.).
- INSTALL FILTER SOCKS IN THE LOCATIONS IDENTIFIED ON THE PLAN DRAWINGS.
- INSTALL CONSTRUCTION ENTRANCE, CONCRETE WASHOUT, COFFERDAM, AND TURBIDITY BARRIER PRIOR TO ANY WORK ON SITE.
- USE A PUMPED WATER FILTER BAG WHEN PUMPING WATER FROM THE WORK AREA. FILTER BAG SHOULD BE LOCATED IN WELL-VEGETATED (GRASSY) AREA, AND DISCHARGE ONTO STABLE, EROSION RESISTANT AREAS, WHERE THIS IS NOT POSSIBLE, A GEOTEXTILE UNDERLAYMENT AND FLOW PATH SHOULD BE PROVIDED.
- BEGIN REPAIR AND IMPROVEMENT ACTIVITIES.
- REMOVE EXCAVATED MATERIAL IMMEDIATELY FROM SITE.
- EARTH DISTURBANCE ACTIVITIES LEFT INACTIVE FOR FOUR OR MORE DAYS, SHOULD BE TEMPORARILY STABILIZED.
- RESTORE AREA BY ADDING TOPSOIL, PERMANENT SEED, AND EROSION CONTROL BLANKET UPON COMPLETION OF REPAIR AND REPLACEMENT ACTIVITIES THAT HAVE ACHIEVED FINAL GRADE AND WILL NO LONGER BE SUBJECTED TO CONSTRUCTION ACTIVITY.
- RE-SEED, AS NECESSARY, ANY AREAS THAT BECOME DISTURBED OR WHERE VEGETATION HAS NOT BEEN ESTABLISHED WITHIN THIRTY (30) DAYS.
- REMOVE ALL TEMPORARY BMPs ONCE A UNIFORM 70% PERENNIAL VEGETATIVE COVER OR OTHER PERMANENT NON-VEGETATIVE COVER WITH A DENSITY OF SUFFICIENT TO RESIST ACCELERATED EROSION, HAS ESTABLISHED ON ALL PREVIOUSLY DISTURBED AREAS.

INSPECTION AND MAINTENANCE TABLE

EROSION AND SEDIMENT CONTROL MEASURE	INSPECTION SCHEDULE	MAINTENANCE REQUIREMENTS
PUMPED WATER FILTER BAG	PUMPED WATER FILTER BAGS SHALL BE INSPECTED DAILY AND AFTER EACH RUNOFF EVENT.	NEEDED REPAIRS SHALL BE INITIATED AFTER INSPECTION. THE CONTRACTOR SHALL KEEP INTAKE FREE FROM DEBRIS AND SILT. MAINTAIN PROPER PUMP RATE. IF PUMP IS NOT ADEQUATE TO DIVERT FLOW FROM THE WORK AREA, REPLACE, PUMPED WATER FILTER BAGS SHALL BE REPLACED WHEN THEY ARE HALF FULL. MAINTAIN DISCHARGE PIPE LOCATION TO DISCHARGE WATER DOWNSTREAM OF THE WORK AREA.
COMPOST FILTER SOCK	INSPECT WEEKLY AND AFTER EACH RUNOFF EVENT OF 0.25 INCHES OR GREATER. INITIATE REPAIRS WITHIN 24 HOURS AFTER INSPECTION.	SEDIMENT MUST BE REMOVED WHEN ACCUMULATED TO 1/2 ABOVE GROUND HEIGHT OF SOCK.
COFFERDAM	INSPECT DAILY AND AFTER EACH RUNOFF EVENT.	DAMAGED BARRIER SHALL BE REPAIRED IN ACCORDANCE WITH THE DETAIL OR REPLACED WITHIN TWENTY-FOUR (24) HOURS OF INSPECTION.
COMPOST FILTER SOCK CONCRETE WASHOUT	INSPECT DAILY. DAMAGED OR LEAKING WASHOUTS SHOULD BE DEACTIVATED AND REPAIRED IMMEDIATELY.	CARE SHALL BE TAKEN TO ENSURE CONTINUOUS CONTACT OF THE SOCK WITH THE PLASTIC SHEETING, WHERE NECESSARY, SOCKS MAY BE STACKED SO AS TO FORM A TRIANGULAR CROSS SECTION. ACCUMULATED MATERIALS SHALL BE REMOVED WHEN THEY REACH 1/2 HEIGHT OF COMPOST SOCK WASHOUT HEIGHT. PLASTIC SHEETING SHALL BE REPLACED WITH EACH CLEANING OF THE WASHOUT FACILITY.
TEMPORARY AND PERMANENT SEEDING	INSPECT WEEKLY AND AFTER EACH RUNOFF EVENT. PERENNIAL VEGETATION IS ESTABLISHED TO A MINIMUM UNIFORM 70% COVERAGE.	VEGETATED AREAS SHALL BE CONSIDERED PERMANENTLY STABILIZED WHEN A UNIFORM 70% PERENNIAL VEGETATIVE COVER HAS BEEN ACHIEVED. UNTIL SUCH COVERAGE HAS BEEN ACHIEVED, THE CONTRACTOR SHALL PROVIDE AND MAINTAIN INTERIM STABILIZATION MEASURES THAT ARE USED TO TREAT PROJECT RUNOFF. THE CONTRACTOR SHALL RESEED AS NECESSARY TO MEET FINAL COVERAGE.
ROCK CONSTRUCTION ENTRANCE	INSPECT DAILY AND AFTER EACH RUNOFF EVENT. INSPECT ROADWAYS FOR DEPOSITED SEDIMENT EACH WORK DAY.	NEEDED REPAIRS TO BE INITIATED IMMEDIATELY AFTER INSPECTION. FACE THICKNESS TO BE CONSTANTLY MAINTAINED TO DETAILED DIMENSIONS BY ADDING ROCK. MAINTAIN A STOCKPILE OF ROCK FOR THIS PURPOSE. AT THE END OF EACH WORK DAY, ALL SEDIMENT DEPOSITED ON PAVED ROADWAYS MUST BE RETURNED TO THE CONSTRUCTION SITE TOPSOIL PILE.
TURBIDITY BARRIER	INSPECT DAILY AND AFTER EACH RUNOFF EVENT OR AFTER HEAVY WINDS.	NECESSARY REPAIRS SHALL BE MADE IMMEDIATELY. ACCUMULATED SEDIMENT SHALL BE REMOVED PER THE MANUFACTURER'S DIRECTIONS, BUT NOT LESS THAN WHEN THE CAPACITY OF STORAGE HAS BEEN REDUCED BY HALF.
EROSION CONTROL BLANKET	INSPECT WEEKLY AND AFTER EACH RUNOFF EVENT UNTIL PERENNIAL VEGETATION IS ESTABLISHED TO A MINIMUM UNIFORM 70% COVERAGE THROUGHOUT THE BLANKETED AREA.	DAMAGED OR DISPLACED BLANKETS SHALL BE RESTORED OR REPLACED WITHIN 4 CALENDAR DAYS.
TREE PROTECTION (TEMPORARY CONSTRUCTION FENCE)	INSPECT DAILY TO ENSURE FENCE HAS NOT BEEN DAMAGED BY VEHICLES AND EQUIPMENT.	NEEDED REPAIRS SHALL BE INITIATED WITHIN 24 HOURS AFTER INSPECTION. REINSTALL DISTURBED CONSTRUCTION FENCE TO PREVENT UNAUTHORIZED PERSONNEL FROM ENTERING CONSTRUCTION AREAS.

NOTE: IT IS SUGGESTED THAT A "VISUAL SITE INSPECTION REPORT" (DEP FORM 3800-FM-BCW0271d, AS LAST REVISED) BE COMPLETED DURING EACH INSPECTION (DAILY/ WEEKLY AND FOLLOWING RUNOFF EVENTS) AND SHALL BE KEPT ON SITE AT ALL TIMES.

SOIL ON-SITE

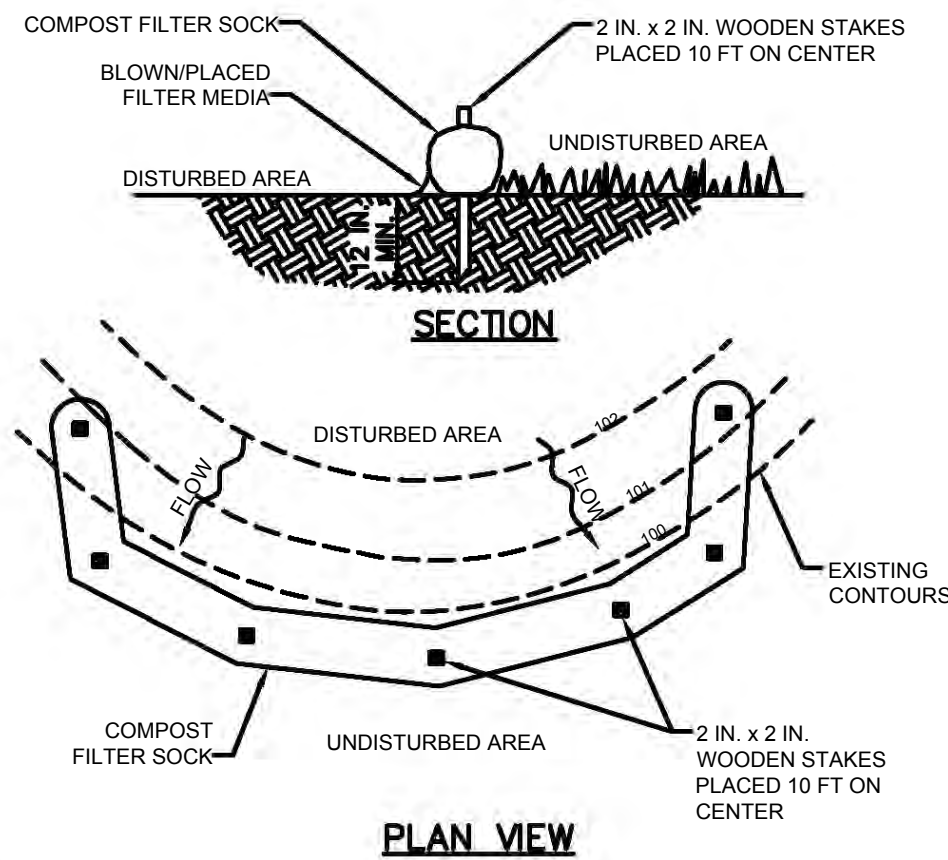
- UB - URBAN LAND
- W - WATER

SOIL LIMITATIONS

- URBAN LAND SOIL IS SO ALTERED BY EARTH MOVING AND DISTURBANCES THAT THE ORIGINAL SOILS CANNOT BE IDENTIFIED; THEREFORE, SOIL LIMITATIONS ARE NOT ASSIGNED TO THIS SOIL CLASSIFICATION.

Designed by:	REVISION				 <div>Collective Efforts, LLC Civil and Environmental Engineers 1000 West View Park Drive, Suite 7 Pittsburgh, PA 15229 412.459.0114 www.collectiveefforts.com</div>				ARLETTA SCOTT WILLIAMS EXECUTIVE DIRECTOR, ALCOSAN 3300 PREBLE AVE. PITTSBURGH, PA 15233 (412) 766 - 4810 www.alcosan.org	ALLEGHENY COUNTY SANITARY AUTHORITY REGIONAL CONVEYANCE SYSTEM MISCELLANEOUS FLAP GATE, SLUICE GATE, AND VALVE REPLACEMENTS AT VARIOUS LOCATIONS A-65 FLAP GATE REPLACEMENT EROSION AND SEDIMENT CONTROL DETAILS	Contract: 1818 CAD File Name: 1818-A-65-ES-02.DWG Date: 06/11/2025 Sheet: 36 of 68
M.STEVENS	REV No.	DATE	DESCRIPTION	APPV							
Drawn by:	7	9/2/2025	ISSUED FOR BID								
M.STEVENS											
Checked by:											
C.CASADEI											

Material Type	3 mil HDPE	5 mil HDPE	5 mil HDPE	Multi-Filament Polypropylene (MFPP)	Heavy Duty Multi-Filament Polypropylene (HDMFPP)
Material Characteristics	Photo-degradable	Photo-degradable	Bio-degradable	Photo-degradable	Photo-degradable
Sock Diameters	12" 18"	12" 18" 24" 32"	12" 18" 24" 32"	12" 18" 24" 32"	12" 18" 24" 32"
Mesh Opening	3/8"	3/8"	3/8"	3/8"	1/8"
Tensile Strength		26 psi	26 psi	44 psi	202 psi
Ultraviolet Stability % Original Strength (ASTM G-155)	23% at 1000 hr.	23% at 1000 hr.		100% at 1000 hr.	100% at 1000 hr.
Minimum Functional Longevity	6 months	9 months	6 months	1 year	2 years



SOCK FABRIC SHALL MEET STANDARDS OF TABLE 4.1 OF THE PA DEP EROSION CONTROL MANUAL.
COMPOST SHALL MEET THE STANDARDS OF TABLE 4.2 OF THE PA DEP EROSION CONTROL MANUAL.

COMPOST FILTER SOCK SHALL BE PLACED AT EXISTING LEVEL GRADE. BOTH ENDS OF THE BARRIER SHALL BE EXTENDED AT LEAST 8 FEET UP SLOPE AT 45 DEGREES TO THE MAIN BARRIER ALIGNMENT. MAXIMUM SLOPE LENGTH ABOVE ANY BARRIER SHALL NOT EXCEED THAT SPECIFIED FOR THE SIZE OF THE SOCK AND THE SLOPE OF ITS TRIBUTARY AREA.

TRAFFIC SHALL NOT BE PERMITTED TO CROSS COMPOST FILTER SOCKS

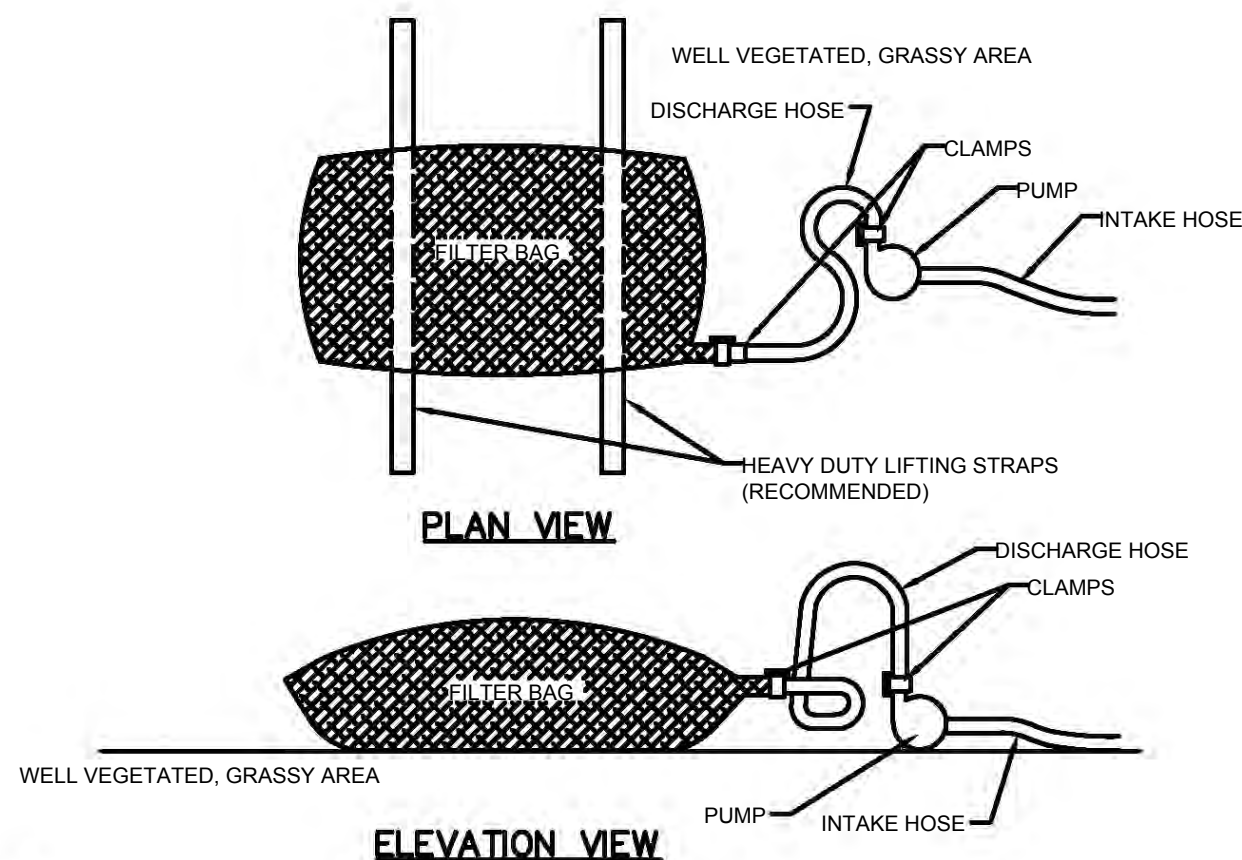
ACCUMULATED SEDIMENT SHALL BE REMOVED WHEN IT REACHES 1/2 THE ABOVE GROUND HEIGHT OF THE BARRIER AND DISPOSED IN THE MANNER DESCRIBED ELSEWHERE IN THE PLAN.

COMPOST FILTER SOCKS SHALL BE INSPECTED WEEKLY AND AFTER EACH RUNOFF EVENT. DAMAGED SOCKS SHALL BE REPAIRED ACCORDING TO MANUFACTURER'S SPECIFICATIONS OR REPLACED WITHIN 24 HOURS OF INSPECTION.

BIODEGRADABLE COMPOST FILTER SOCKS SHALL BE REPLACED AFTER 6 MONTHS; PHOTODEGRADABLE SOCKS AFTER 1 YEAR. POLYPROPYLENE SOCKS SHALL BE REPLACED ACCORDING TO MANUFACTURER'S RECOMMENDATIONS.

UPON STABILIZATION OF THE AREA TRIBUTARY TO THE SOCK, STAKES SHALL BE REMOVED. THE SOCK MAY BE LEFT IN PLACE AND VEGETATED OR REMOVED. IN THE LATTER CASE, THE MESH SHALL BE CUT OPEN AND THE MULCH SPREAD AS A SOIL SUPPLEMENT.

NOT TO SCALE



LOW VOLUME FILTER BAGS SHALL BE MADE FROM NON-WOVEN GEOTEXTILE MATERIAL SEWN WITH HIGH STRENGTH, DOUBLE STITCHED "J" TYPE SEAMS. THEY SHALL BE CAPABLE OF TRAPPING PARTICLES LARGER THAN 150 MICRONS. HIGH VOLUME FILTER BAGS SHALL BE MADE FROM WOVEN GEOTEXTILES THAT MEET THE FOLLOWING STANDARDS:

PROPERTY	TEST METHOD	MINIMUM STANDARD
AVG. WIDE WIDTH STRENGTH	ASTM D-4884	60 LB/IN
GRAB TENSILE	ASTM D-4632	205 LB
PUNCTURE	ASTM D-4833	110 LB
MULLEN BURST	ASTM D-3786	350 PSI
UV RESISTANCE	ASTM D-4355	70%
AOS % RETAINED	ASTM D-4751	80 SIEVE

A SUITABLE MEANS OF ACCESSING THE BAG WITH MACHINERY REQUIRED FOR DISPOSAL PURPOSES SHALL BE PROVIDED. FILTER BAGS SHALL BE REPLACED WHEN THEY BECOME 1/2 FULL OF SEDIMENT. SPARE BAGS SHALL BE KEPT AVAILABLE FOR REPLACEMENT OF THOSE THAT HAVE FAILED OR ARE FILLED. BAGS SHALL BE PLACED ON STRAPS TO FACILITATE REMOVAL UNLESS BAGS COME WITH LIFTING STRAPS ALREADY ATTACHED.

BAGS SHALL BE LOCATED IN WELL-VEGETATED (GRASSY) AREA, AND DISCHARGE ONTO STABLE, EROSION RESISTANT AREAS. WHERE THIS IS NOT POSSIBLE, A GEOTEXTILE UNDERLAYMENT AND FLOW PATH SHALL BE PROVIDED. BAGS MAY BE PLACED ON FILTER STONE TO INCREASE DISCHARGE CAPACITY. BAGS SHALL NOT BE PLACED ON SLOPES GREATER THAN 5%. FOR SLOPES EXCEEDING 5%, CLEAN ROCK OR OTHER NON-ERODIBLE AND NON-POLLUTING MATERIAL MAY BE PLACED UNDER THE BAG TO REDUCE SLOPE STEEPNESS.

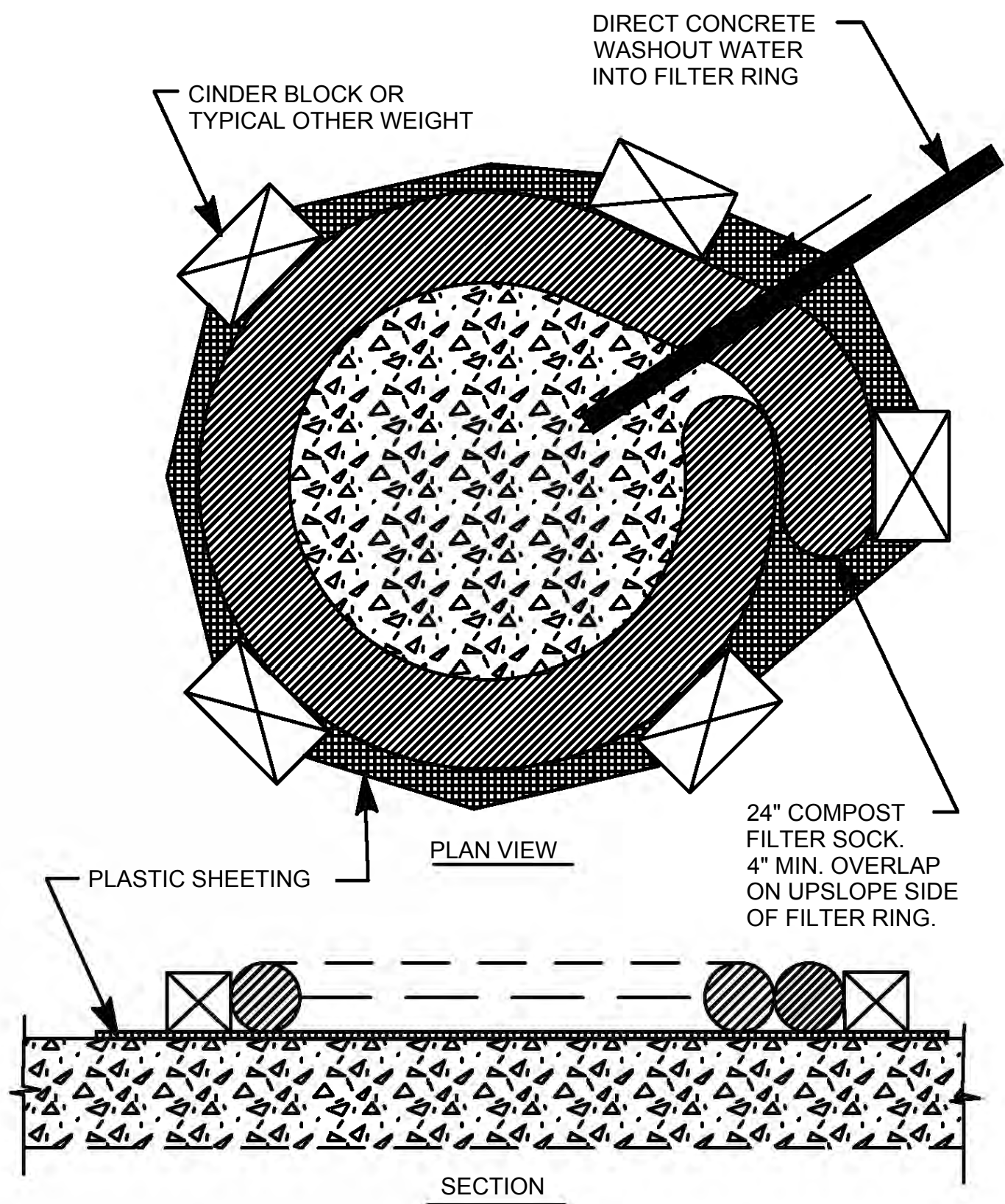
NO DOWNSLOPE SEDIMENT BARRIER IS REQUIRED FOR MOST INSTALLATIONS. COMPOST BERM OR COMPOST FILTER SOCK SHALL BE INSTALLED BELOW BAGS LOCATED IN HQ OR EV WATERSHEDS, WITHIN 50 FEET OF ANY RECEIVING SURFACE WATER OR WHERE GRASSY AREA IS NOT AVAILABLE.

THE PUMP DISCHARGE HOSE SHALL BE INSERTED INTO THE BAGS IN THE MANNER SPECIFIED BY THE MANUFACTURER AND SECURELY CLAMPED. A PIECE OF PVC PIPE IS RECOMMENDED FOR THIS PURPOSE.

THE PUMPING RATE SHALL BE NO GREATER THAN 750 GPM OR 1/2 THE MAXIMUM SPECIFIED BY THE MANUFACTURER, WHICHEVER IS LESS. PUMP INTAKES SHALL BE FLOATING AND SCREENED.

FILTER BAGS SHALL BE INSPECTED DAILY. IF ANY PROBLEM IS DETECTED, PUMPING SHALL CEASE IMMEDIATELY AND NOT RESUME UNTIL THE PROBLEM IS CORRECTED.

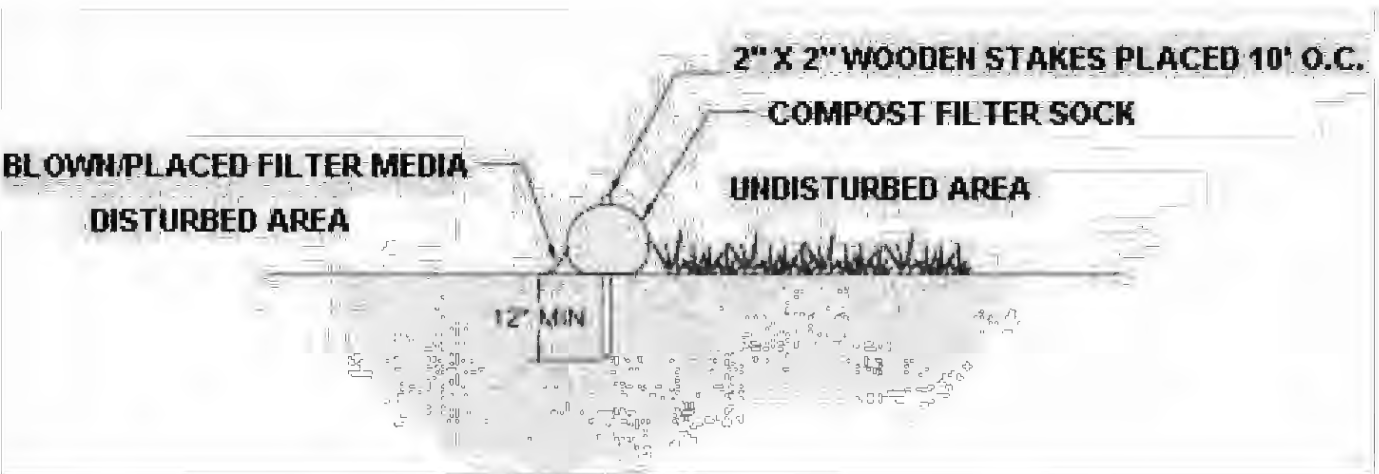
NOT TO SCALE



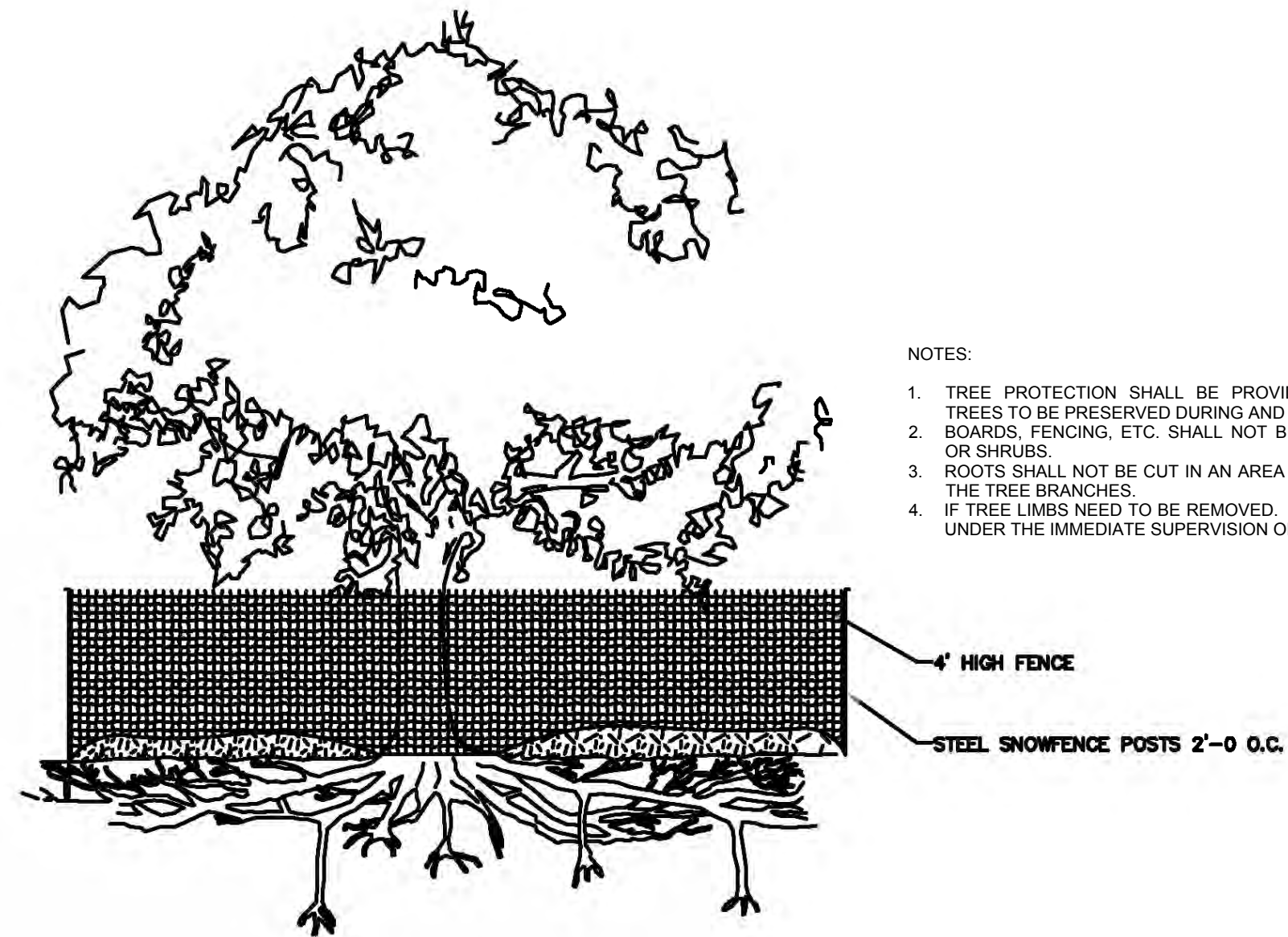
1. INSTALL ON FLAT GRADE FOR OPTIMUM PERFORMANCE.
2. 18" DIAMETER FILTER SOCK MAY BE STACKED ONTO DOUBLE 24" DIAMETER SOCKS IN PYRAMIDAL CONFIGURATION FOR ADDED HEIGHT.
3. A SUITABLE IMPERVIOUS 10 MIL PLASTIC SHEETING SHALL BE PLACED AT THE LOCATION OF THE WASHOUT PRIOR TO INSTALLING THE SOCKS.
4. COMPOST FILTER SOCKS SHALL BE HELD IN PLACE WITH CINDER BLOCKS OR OTHER WEIGHT.
5. TEMPORARY COMPOST SOCK WASHOUT AREA AND RESIDUAL CONCRETE SHALL BE REMOVED AND DISPOSED OFF-SITE.

NOT TO SCALE

PROJECT NAME: <u>A-65 – ALCOSAN Regional Conveyance Valve Replacement</u>	
LOCATION: <u>City of Pittsburgh, Allegheny County, PA</u>	
PREPARED BY: <u>MWS</u>	DATE: <u>04/10/2025</u>
CHECKED BY: <u>BJS</u>	DATE: <u>04/11/2025</u>



SOCK NO.	Dia. In.	LOCATION	SLOPE PERCENT	SLOPE LENGTH ABOVE BARRIER (FT)
CFS-01, A-65	18	Southwest of A-65 Regulator Structure	25.0	68
CFS-02, A-65	18	Northeast of A-65 Regulator Structure	24.3	70
CFS-03, A-65	18	Downgradient from pumped water filter bag	22.6	84
CFS-04, A-65	12	Downgradient from Rock Construction Entrance	20.0	45



1. TREE PROTECTION SHALL BE PROVIDED FOR ANY AND ALL TREES TO BE PRESERVED DURING AND AFTER CONSTRUCTION.
2. BOARDS, FENCING, ETC. SHALL NOT BE NAILED TO ANY TREES OR SHRUBS.
3. ROOTS SHALL NOT BE CUT IN AN AREA INSIDE THE DRIP LINE OF THE TREE BRANCHES.
4. IF TREE LIMBS NEED TO BE REMOVED, IT SHALL BE PERFORMED UNDER THE IMMEDIATE SUPERVISION OF A CERTIFIED ARBORIST.

NOT TO SCALE

Designed by: M.STEVENS Drawn by: M.STEVENS Checked by: C.CASADE	REVISION			
	REV No.	DATE	DESCRIPTION	APPV
	1	9/2/2025	ISSUED FOR BID	



Collective Efforts, LLC
Civil and Environmental Engineers
1000 West View Park Drive, Suite 7
Pittsburgh, PA 15229
412.459.0114
www.collectiveefforts.com



gai consultants



ARLETTA SCOTT WILLIAMS
EXECUTIVE DIRECTOR, ALCOSAN

3300 PREBLE AVE.
PITTSBURGH, PA 15233
(412) 766 - 4810

www.alcosan.org

ALLEGHENY COUNTY SANITARY AUTHORITY
REGIONAL CONVEYANCE SYSTEM
MISCELLANEOUS FLAP GATE, SLUICE GATE, AND
VALVE REPLACEMENTS AT VARIOUS LOCATIONS

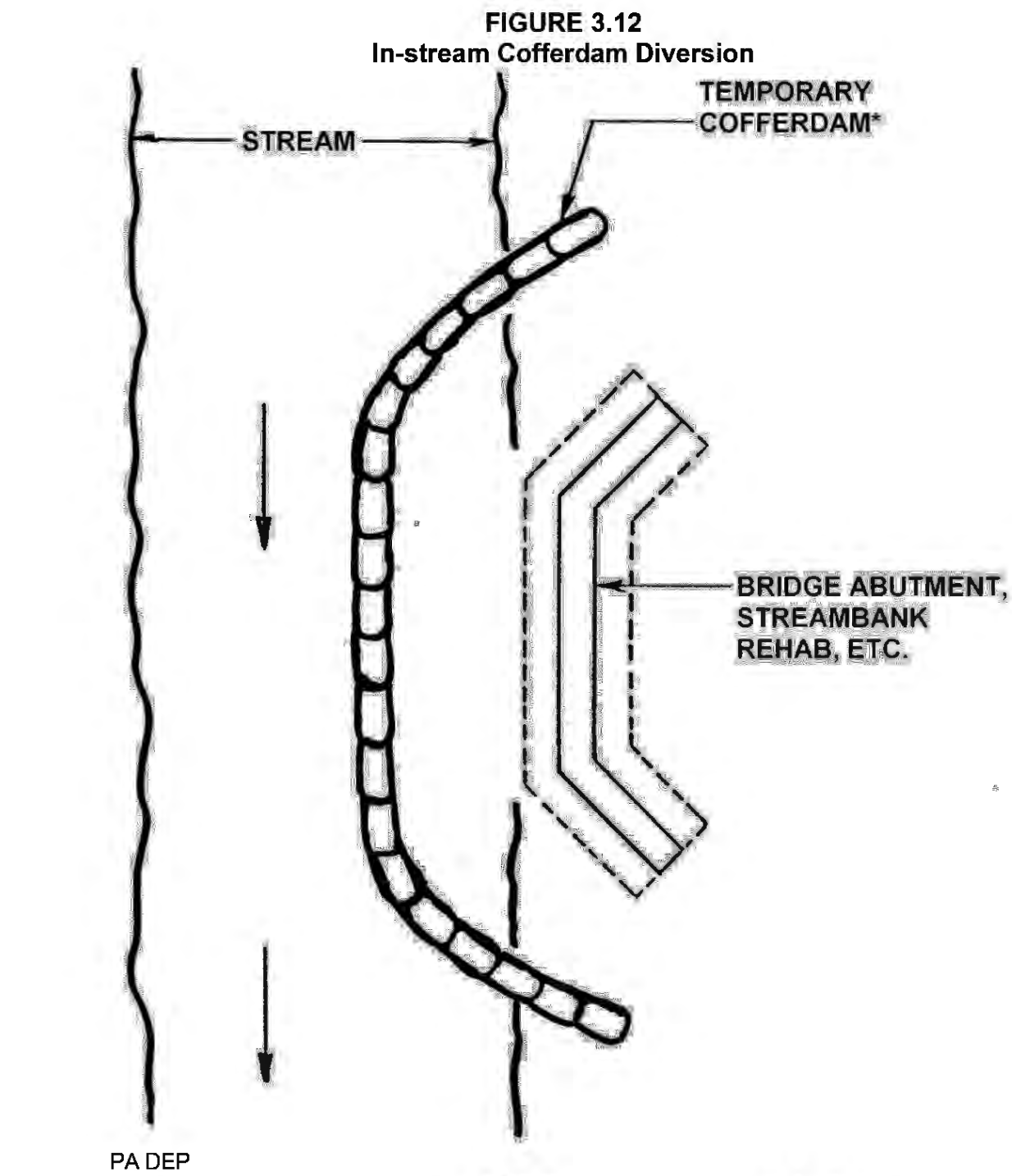
A-65
FLAP GATE REPLACEMENT
EROSION AND SEDIMENT CONTROL DETAILS

Contract: 1818

CAD File Name:
1818-A-65-ES-03.DWG

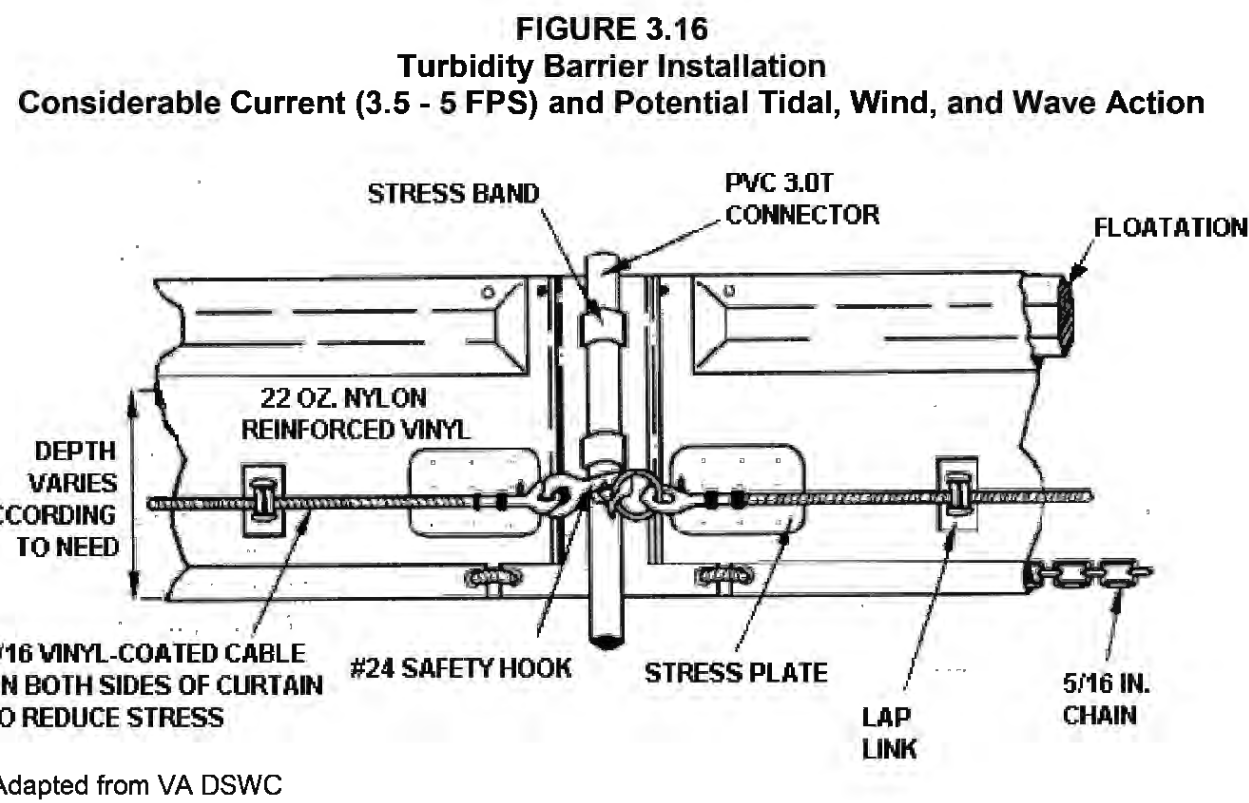
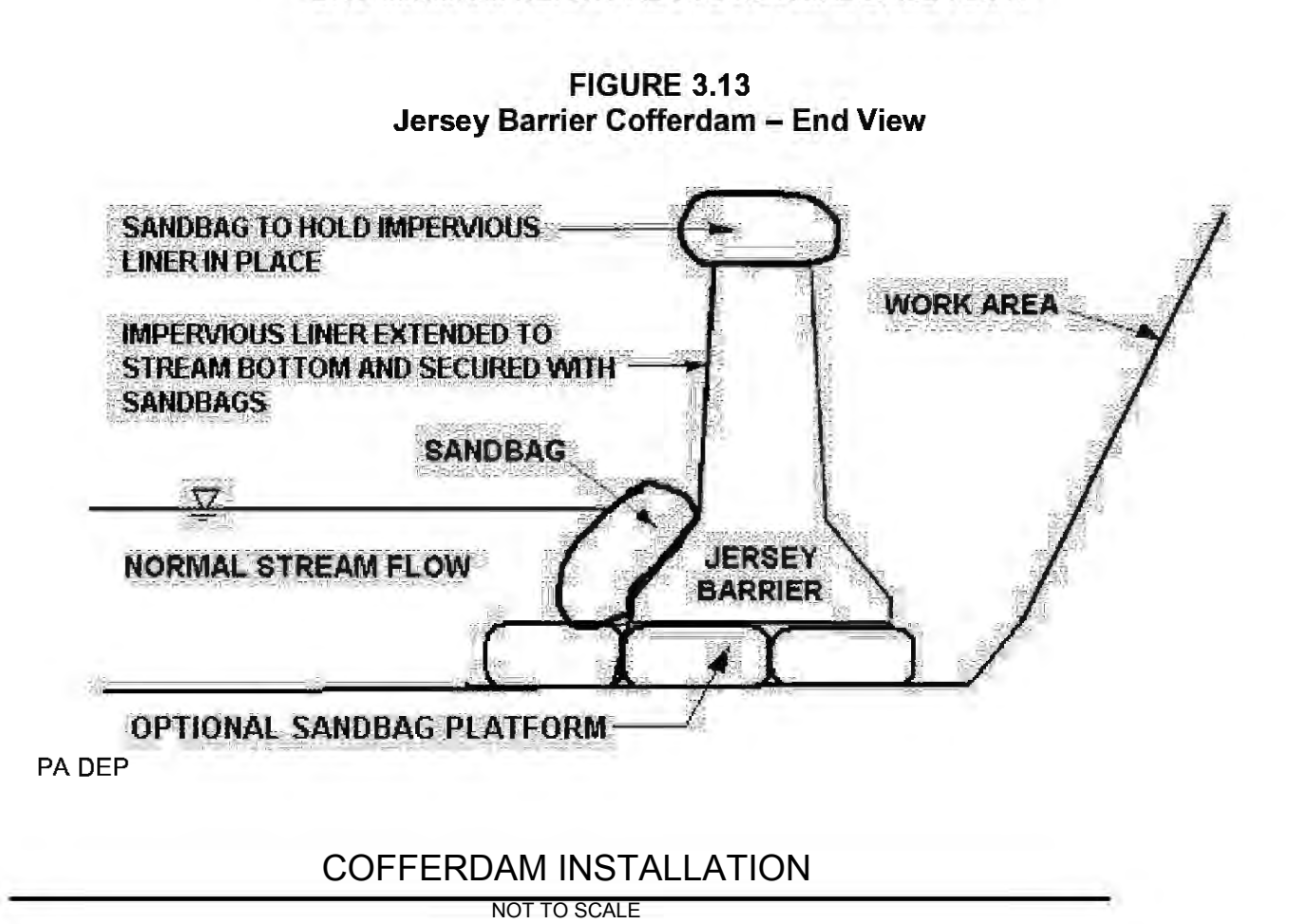
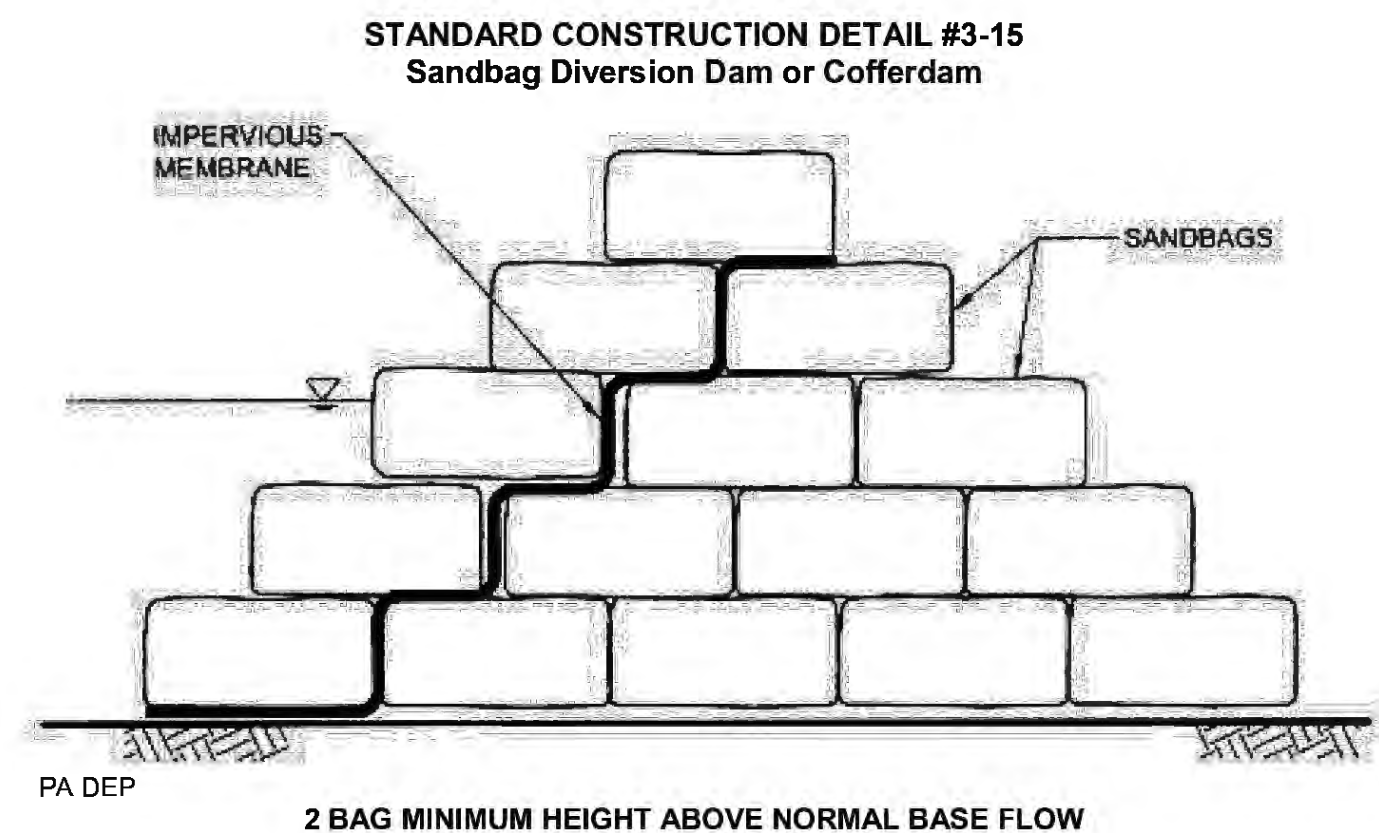
Date: 06/11/2025

Sheet: 37 of 68



PA DEP

* Sandbags (Standard Construction Detail #3-15), Jersey barriers (Figure 3.13) or other non-erosive material, no earth fill.



NOTES:

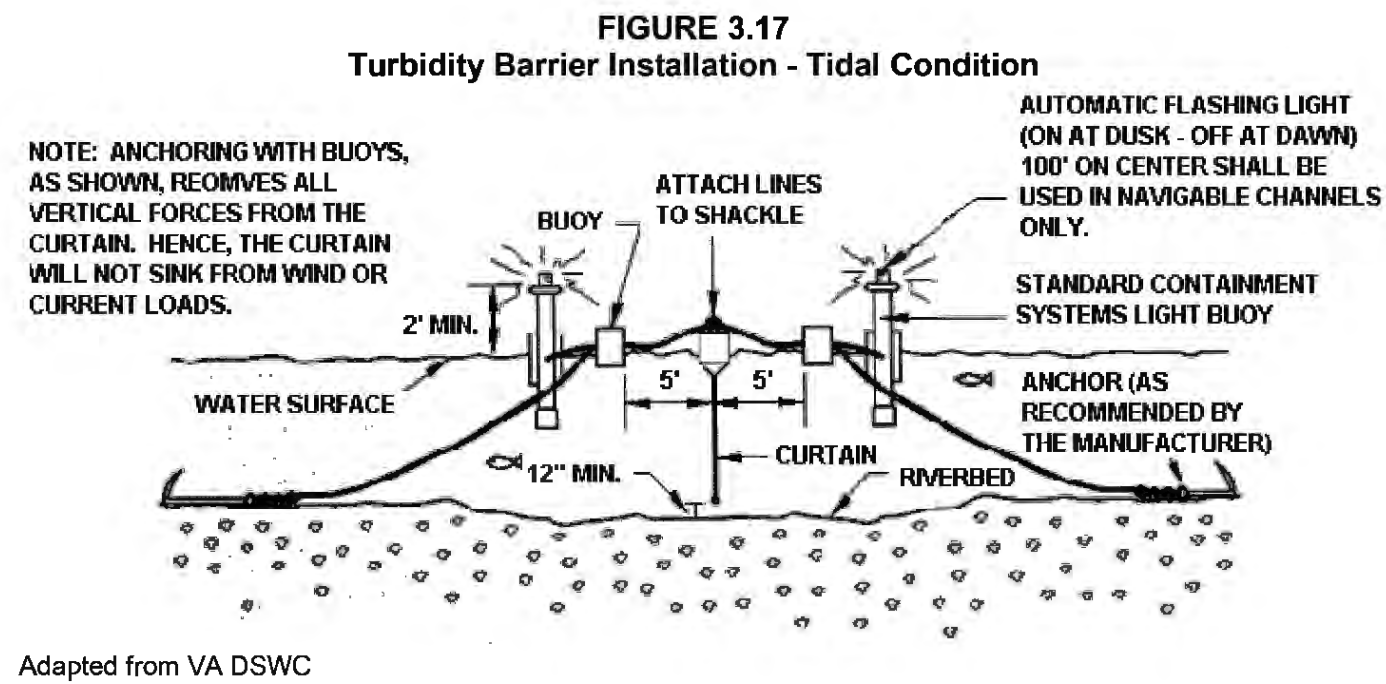
FIGURE 3.16 FROM PA DEP EROSION AND SEDIMENT CONTROL PROGRAM MANUAL, TECHNICAL GUIDANCE NUMBER 363-2134-008 ILLUSTRATES TYPICAL INSTALLATION; HOWEVER, MANUFACTURER'S DETAILS AND GUIDELINES SHOULD BE USED FOR ACTUAL INSTALLATION.

MAKE SURE ALL OBSTACLES, IMPEDIMENTS, AND POTENTIALLY DAMAGING OBJECTS HAVE BEEN REMOVED FROM THE INSTALLATION AREA PRIOR TO BEGINNING THE INSTALLATION.

TURBIDITY BARRIERS PLACED IN STREAM CHANNELS SHOULD BE PLACED PARALLEL TO THE FLOW DIRECTION.

THE OVERALL LENGTH OF THE CURTAIN SHOULD BE 10 - 20% GREATER THAN THE STRAIGHT-LINE MEASUREMENT OF THE PERIMETER TO FACILITATE INSTALLATION AND REDUCE STRESS CAUSED BY WIND AND/OR WAVES.

BOTH ENDS OF THE CURTAIN SHOULD BE SECURELY ANCHORED TO THE SHORELINE.



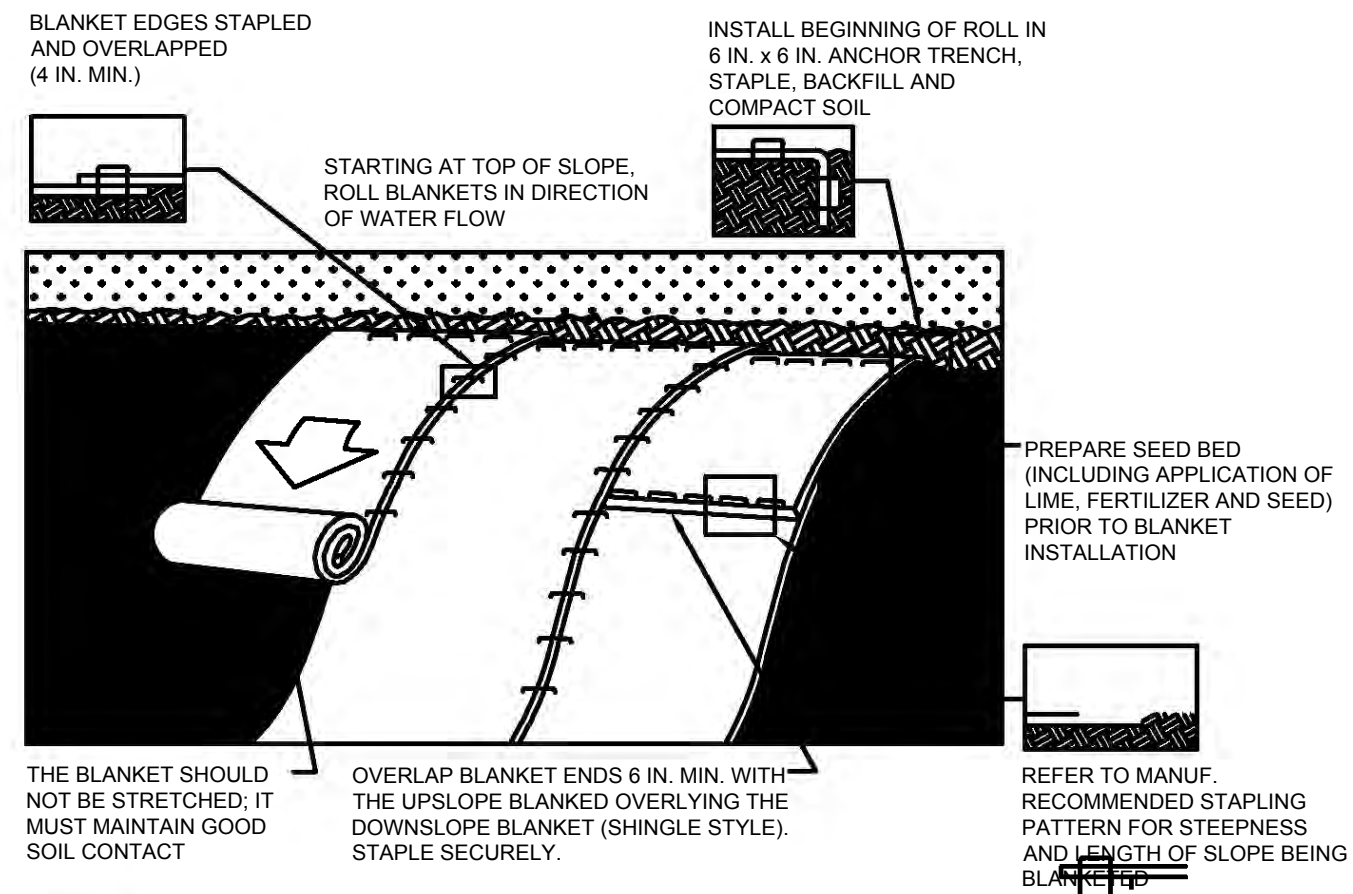
Adapted from VA DSWC

NOTES:

FIGURE 3.17 FROM PA DEP EROSION AND SEDIMENT CONTROL PROGRAM MANUAL, TECHNICAL GUIDANCE NUMBER 363-2134-008

TURBIDITY BARRIER INSTALLATION

NOT TO SCALE



NOTES:

SEED AND SOIL AMENDMENTS SHALL BE APPLIED ACCORDING TO THE RATES IN THE PLAN DRAWINGS PRIOR TO INSTALLING THE BLANKET.

PROVIDE ANCHOR TRENCH AT TOE OF SLOPE IN SIMILAR FASHION AS AT TOP OF SLOPE.

SLOPE SURFACE SHALL BE FREE OF ROCKS, CLOUDS, STICKS, AND GRASS.

BLANKET SHALL HAVE GOOD CONTINUOUS CONTACT WITH UNDERLYING SOIL THROUGHOUT ENTIRE LENGTH. LAY BLANKET LOOSELY AND STAKE OR STAPLE TO MAINTAIN DIRECT CONTACT WITH SOIL. DO NOT STRETCH BLANKET.

THE BLANKET SHALL BE STAPLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.

BLANKETED AREAS SHALL BE INSPECTED WEEKLY AND AFTER EACH RUNOFF EVENT UNTIL PERENNIAL VEGETATION IS ESTABLISHED TO A MINIMUM UNIFORM 70% COVERAGE THROUGHOUT THE BLANKETED AREA. DAMAGED OR DISPLACED BLANKETS SHALL BE RESTORED OR REPLACED WITHIN 4 CALENDAR DAYS.

STANDARD CONSTRUCTION DETAIL #11-1 EROSION CONTROL BLANKET INSTALLATION

NOT TO SCALE

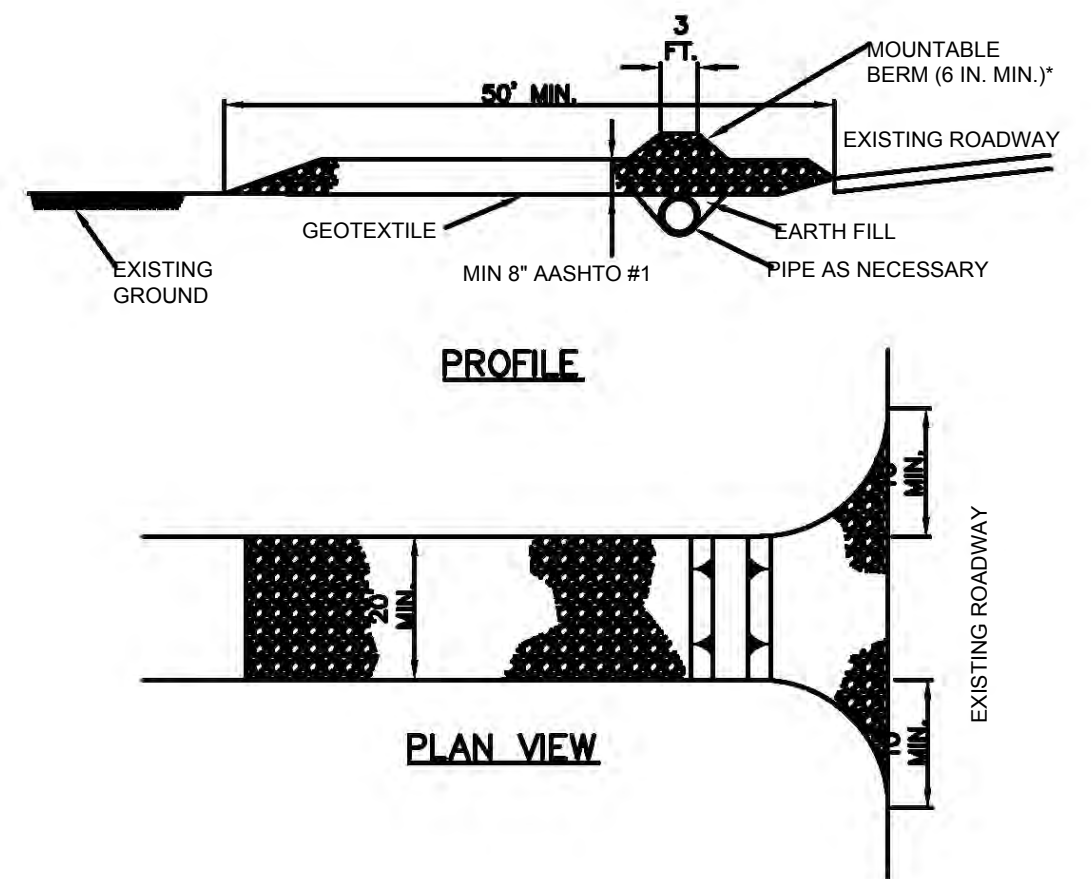
STANDARD WORKSHEET #21 Temporary and Permanent Vegetative Stabilization Specifications

PROJECT NAME: M-34 & A-65 - ALCOSAN Regional Conveyance Valve Replacement
LOCATION: City of Pittsburgh, Allegheny County, Pennsylvania
PREPARED BY: MWS
CHECKED BY: BUS
DATE: 04/14/2025
DATE: 04/15/2025

SPECIFICATIONS: The Department recommends the use of the Penn State publication, "Erosion Control and Conservation Plantings on Noncropland," as the standard to use for the selection of species, seed specifications, mixtures, liming and fertilizing, time of seeding, and seeding methods. Specifications for these items may also be obtained from PennDOT's Publication # 408, Section 804 or by contacting the applicable county conservation district. Upon selection of a reference, that reference should be used to provide all specifications for seeding, mulching, and soil amendments. The following specification will be used for this project:

(TEMPORARY)	*SPECIES: Native Steep Slope Mix w/ Annual Ryegrass - ERNMX-181
	% PURE LIVE SEED: 97 %
	APPLICATION RATE: 1.5 LB./1,000 S.F.
	FERTILIZER TYPE: 10-10-10 (N-P-K)
	FERTILIZER APPL. RATE: 500 LB./ACRE
	LIMING RATE: 1 T./ACRE
	MULCH TYPE: Straw
	MULCHING RATE: 1,200 LB./1,000 S.Y.
(PERMANENT)	TOPSOIL PLACEMENT DEPTH: 6 IN.
	*SPECIES: Native Steep Slope Mix w/ Annual Ryegrass - ERNMX-181
	% PURE LIVE SEED: 97 %
	APPLICATION RATE: 1.5 LB./1,000 S.F.
	FERTILIZER TYPE: 10-20-20 (N-P-K)
	FERTILIZER APPL. RATE: 140 LB./1,000 S.Y.
	LIMING RATE: 800 (Agricultural Lime) LB./1,000 S.Y.
	MULCH TYPE: Straw
	MULCHING RATE: 1,200 LB./1,000 S.Y.
	**ANCHOR MATERIAL: Erosion Control Mat (PennDOT 408 806.2(a))
	**ANCHORING METHOD: Wood Stakes 1'x4'x18' (PennDOT 408 806.2(c).3.)
	**RATE OF ANCHOR MATERIAL APPL.: Varies
	SEEDING SEASON DATES: Year-round
(PERMANENT - STEEP SLOPES)	TOPSOIL PLACEMENT DEPTH: 6 IN.
	*SPECIES: Native Steep Slope Mix w/ Annual Ryegrass - ERNMX-181
	% PURE LIVE SEED: 97 %
	APPLICATION RATE: 1.5 LB./1,000 S.F.
	FERTILIZER TYPE: 10-20-20 (N-P-K)
	FERTILIZER APPL. RATE: 140 LB./1,000 S.Y.
	LIMING RATE: 800 (Agricultural Lime) LB./1,000 S.Y.
	MULCH TYPE: Straw
	MULCHING RATE: 1,200 LB./1,000 S.Y.
	**ANCHOR MATERIAL: Erosion Control Mat (PennDOT 408 806.2(a))
	**ANCHORING METHOD: Wood Stakes 1'x4'x18' (PennDOT 408 806.2(c).3.)
	**RATE OF ANCHOR MATERIAL APPL.: Varies
	SEEDING SEASON DATES: Year-round

*If more than one species is used, indicate application rate for each species.
**Steep slopes only



* MOUNTABLE BERM USED TO PROVIDE PROPER COVER FOR PIPE

NOTES:

REMOVE TOPSOIL PRIOR TO INSTALLATION OF ROCK CONSTRUCTION ENTRANCE. EXTEND ROCK OVER FULL WIDTH OF ENTRANCE.

RUNOFF SHALL BE DIVERTED FROM ROADWAY TO A SUITABLE SEDIMENT REMOVAL BMP PRIOR TO ENTERING ROCK CONSTRUCTION ENTRANCE.

MOUNTABLE BERM SHALL BE INSTALLED WHEREVER OPTIONAL CULVERT PIPE IS USED AND PROPER PIPE COVER AS SPECIFIED BY MANUFACTURER IS NOT OTHERWISE PROVIDED. PIPE SHALL BE SIZED APPROPRIATELY FOR SIZE OF DITCH BEING CROSSED.

MAINTENANCE: ROCK CONSTRUCTION ENTRANCE THICKNESS SHALL BE CONSTANTLY MAINTAINED TO THE SPECIFIED DIMENSIONS BY ADDING ROCK. A STOCKPILE SHALL BE MAINTAINED ON SITE FOR THIS PURPOSE. ALL SEDIMENT DEPOSITED ON PAVED ROADWAYS SHALL BE REMOVED AND RETURNED TO THE CONSTRUCTION SITE IMMEDIATELY IF EXCESSIVE AMOUNTS OF SEDIMENT ARE BEING DEPOSITED ON ROADWAY. EXTEND LENGTH OF ROCK CONSTRUCTION ENTRANCE BY 50 FOOT INCREMENTS UNTIL CONDITION IS ALLEVIATED OR INSTALL WASH RACK. WASHING THE ROADWAY OR SWEEPING THE DEPOSITS INTO ROADWAY DITCHES, SEWERS, CULVERTS, OR OTHER DRAINAGE COURSES IS NOT ACCEPTABLE.

STANDARD CONSTRUCTION DETAIL #3-1 ROCK CONSTRUCTION ENTRANCE

NOT TO SCALE



ERNST SEEDS

Ernst Conservation Seeds
8884 Mercer Pike
Meadville, PA 16335
(800) 873-3321 Fax (814) 336-5191
www.ernstseed.com

Date: March 26, 2025

Native Steep Slope Mix w/Annual Ryegrass - ERNMX-181

Botanical Name	Common Name	Price/Lb
29.00 % <i>Andropogon gerardii</i> , 'Prairie View'-IN Ecotype	Big Bluestem, 'Prairie View'-IN Ecotype	10.45
20.00 % <i>Lolium multiflorum</i>	Annual Ryegrass	1.30
15.50 % <i>Sorghastrum nutans</i> , PA Ecotype	Indiangrass, PA Ecotype	18.13
13.40 % <i>Elymus virginicus</i> , Madison-NY Ecotype	Virginia Wildrye, Madison-NY Ecotype	11.10
6.60 % <i>Elymus canadensis</i>	Canada Wildrye	16.77
4.00 % <i>Agrostis perennans</i> , Albany Pine Bush-NY Ecotype	Autumn Bentgrass, Albany Pine Bush-NY Ecotype	23.40
2.80 % <i>Panicum clandestinum</i> , Tioga	Deertongue, Tioga	23.87
2.80 % <i>Panicum virgatum</i> , 'Habitat'-NJ Ecotype	Switchgrass, 'Habitat'-NJ Ecotype	10.67
1.20 % <i>Tridens flavus</i> , Fort Indiantown Gap-PA Ecotype	Purpletop, Fort Indiantown Gap-PA Ecotype	41.96
1.00 % <i>Chamaecrista fasciculata</i> , PA Ecotype	Partridge Pea, PA Ecotype	13.00
1.00 % <i>Rudbeckia hirta</i>	Blackeyed Susan	33.80
0.70 % <i>Coreopsis lanceolata</i>	Lanceleaf Coreopsis	31.20
0.70 % <i>Echinacea purpurea</i>	Purple Coneflower	46.80
0.60 % <i>Heliopsis helianthoides</i> , PA Ecotype	Oxeye Sunflower, PA Ecotype	36.40
0.30 % <i>Aster pilosus</i> , PA Ecotype	Heath Aster, PA Ecotype	286.00
0.20 % <i>Monarda fistulosa</i> , Fort Indiantown Gap-PA Ecotype	Wild Bergamot, Fort Indiantown Gap-PA Ecotype	104.00
0.10 % <i>Apocynum cannabinum</i> , PA Ecotype	Indianhemp, PA Ecotype	234.00
0.10 % <i>Asclepias syriaca</i> , PA Ecotype	Common Milkweed, PA Ecotype	104.00

100.00 % Mix Price/Lb Bulk: \$13.74

Seeding Rate: 60 lb per acre, or 1.5 lb per 1,000 sq ft

Erosion Control & Revegetation; Grasses & Grass-like Species - Herbaceous Perennial; Herbaceous Flowering Species - Herbaceous Perennial

The native grass and forb species tolerate poor soils typically found on steep slopes in the eastern United States. Mix formulations are subject to change without notice depending on the availability of existing and new products. While the formula may change, the guiding philosophy and function of the mix will not.

Designed by:	REV No.	DATE	REVISION DESCRIPTION	APPV
M.STEVENS	1	9/2/2025	ISSUED FOR BID	
Drawn by:				
M.STEVENS				
Checked by:				
C.CASADE				



Collective Efforts, LLC
Civil and Environmental Engineers
1000 West View Park Drive, Suite 7
Pittsburgh, PA 15229
412.459.0114
www.collectiveefforts.com



gai consultants



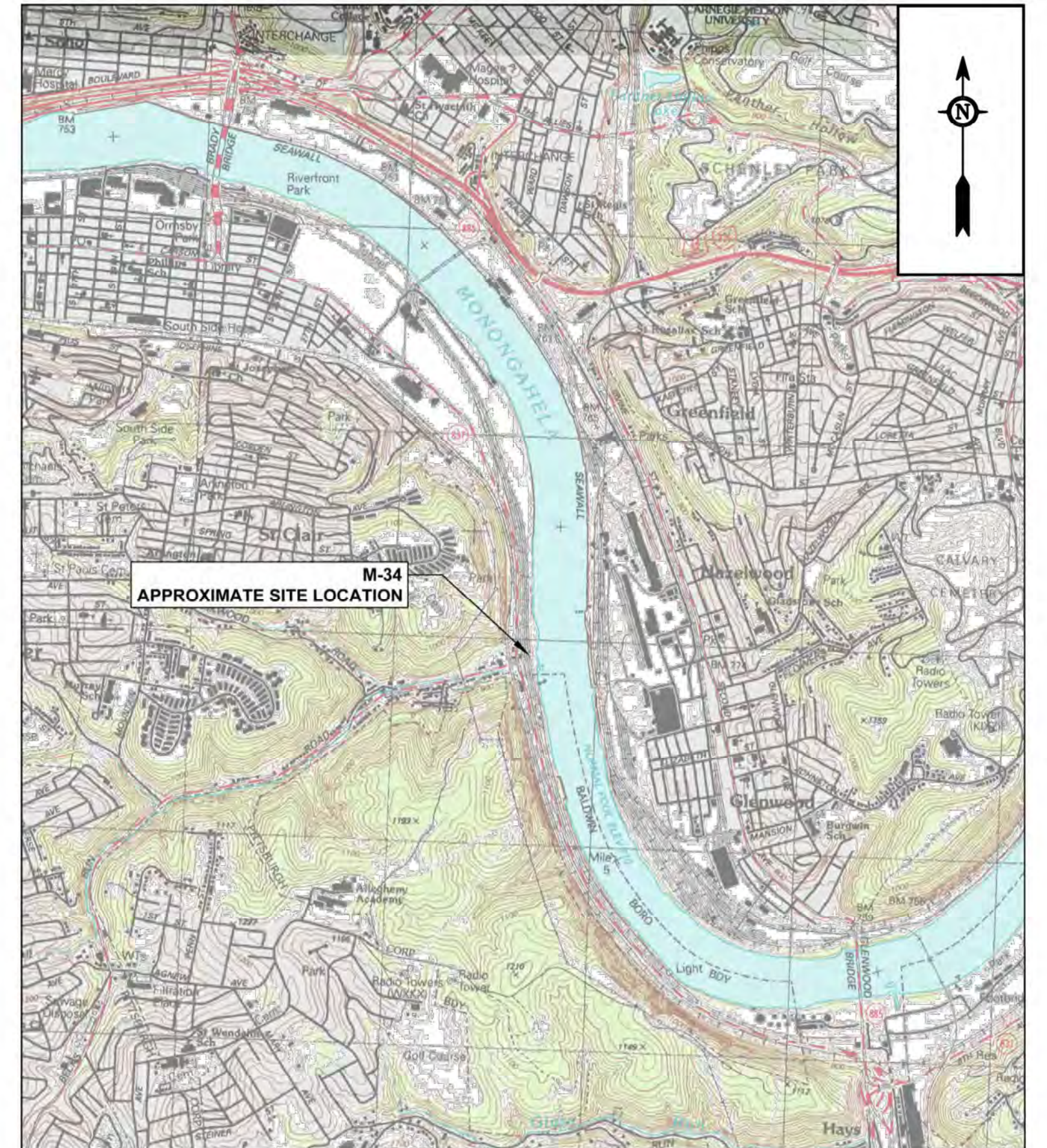
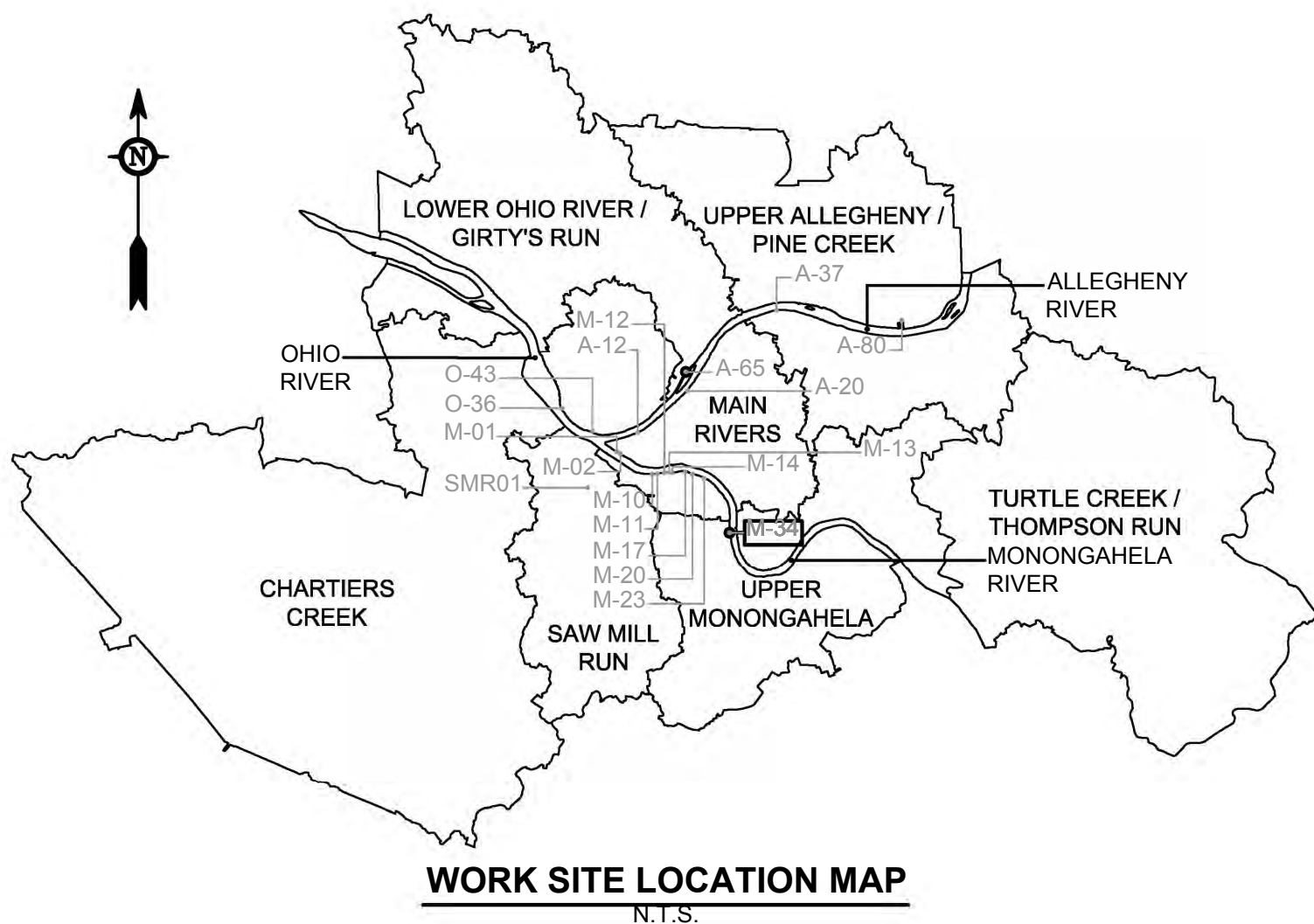
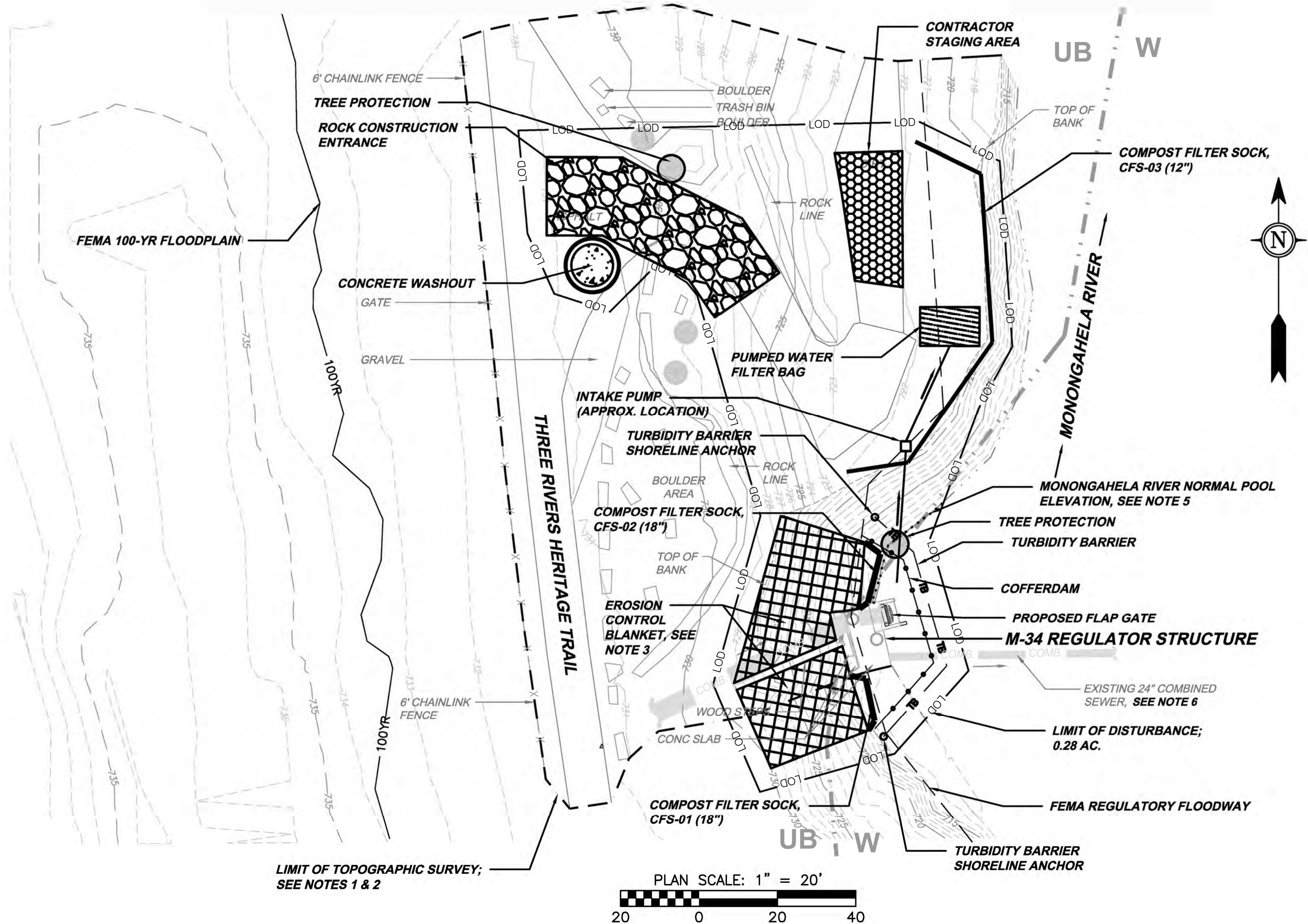
ARLETTA SCOTT WILLIAMS
EXECUTIVE DIRECTOR, ALCOSAN

3300 PREBLE AVE.
PITTSBURGH, PA 15233
(412) 766 - 4810

www.alcosan.org

ALLEGHENY COUNTY SANITARY AUTHORITY REGIONAL CONVEYANCE SYSTEM MISCELLANEOUS FLAP GATE, SLUICE GATE, AND VALVE REPLACEMENTS AT VARIOUS LOCATIONS	Contract: 1818
A-65 FLAP GATE REPLACEMENT EROSION AND SEDIMENT CONTROL DETAILS	CAD File Name: 1818-A-65-ES-04.DWG
	Date: 06/11/2025
	Sheet: 38 of 68

- LEGEND**
- TREE PROTECTION
 - EXISTING TREE
 - ⊙ CONCRETE WASHOUT
 - ▨ PUMPED WATER FILTER BAG
 - ⬢ ROCK CONSTRUCTION ENTRANCE
 - ▧ EROSION CONTROL BLANKET, SEE NOTE 3
 - ⬢ CONTRACTOR STAGING AREA
 - 800 — EXISTING MAJOR CONTOUR
 - 801 — EXISTING MINOR CONTOUR
 - — — LIMIT OF PROJECT SURVEY
SEE NOTES 1 & 2
 - — — FEMA REGULATORY FLOODWAY
 - 100YR — FEMA 100-YR FLOODPLAIN
 - — — STREAM EDGE
 - — — LIMIT OF DISTURBANCE
 - — — COMPOST FILTER SOCK
 - — — COFFERDAM
 - — — TURBIDITY BARRIER
 - — — SOIL LIMITS AND TYPES
UB — URBAN LAND; W — WATER
 - — — MONONGAHELA RIVER
NORMAL POOL ELEVATION



**USGS SITE LOCATION MAP
(PITTSBURGH EAST QUADRANGLE)**
SCALE: 1" = 2,000'

- NOTES**
- TOPOGRAPHIC INFORMATION SHOWN WITHIN LIMITS OF PROJECT SURVEY IS BASED ON FIELD SURVEY PERFORMED BY MONALOH BASIN ENGINEERS, COMPLETED IN MARCH AND APRIL OF 2025.
 - TOPOGRAPHIC INFORMATION SHOWN OUTSIDE OF PROJECT SURVEY LIMITS WAS PRODUCED FROM PENNSYLVANIA SPATIAL DATA ACCESS (PASDA) GIS DATA. GIS DATA WAS DOWNLOADED IN APRIL 2025. PASDA TOPOGRAPHIC INFORMATION IS SHOWN FOR GENERAL SPATIAL REFERENCE ONLY. PROJECT SURVEY INFORMATION SHALL SUPERSEDE PASDA TOPOGRAPHIC INFORMATION.
 - EROSION CONTROL BLANKETING SHALL BE INSTALLED ON ALL SLOPES 3H:1V OR STEEPER, WITHIN 50 FEET OF A SURFACE WATER, AND ON ALL OTHER DISTURBED AREAS SPECIFIED ON THE PLAN MAPS AND/OR DETAIL SHEETS. EROSION CONTROL BLANKETS SHALL BE NORTH AMERICAN GREEN S150 (OR APPROVED EQUAL) DOUBLE NET SUITABLE FOR USE ON 2:1 SLOPES OR S75 (OR APPROVED EQUAL) SINGLE NET BLANKET SUITABLE FOR USE ON 3:1 SLOPES.
 - SITE SOILS: UB - URBAN LAND; W - WATER
 - NORMAL POOL ELEVATION OF THE MONONGAHELA RIVER: 710 FEET. NOTE THAT THE PASDA GIS DATA FOR THE SITE DOES NOT INCLUDE THE 710 FOOT CONTOUR. THE 710 FOOT CONTOUR FROM THE PROJECT SURVEY IS HIGHLIGHTED AS THE NORMAL POOL ELEVATION.
 - EXISTING COMBINED SEWER IS BELOW GRADE AND IS NOT TO BE IMPACTED AS PART OF THIS PROJECT. EXERCISE CAUTION TO AVOID IMPACTS TO COMBINED SEWER.

Designed by:	M.STEVENS	REVISION	REV No.	DATE	DESCRIPTION	APPV
Drawn by:	M.STEVENS		1	9/2/2025	ISSUED FOR BID	
Checked by:	C.CASADEI					

	Collective Efforts, LLC Civil and Environmental Engineers 1000 West View Park Drive, Suite 7 Pittsburgh, PA 15229 412.459.0114 www.collectiveefforts.com
--	--

	gai consultants
--	------------------------

--	--

ARLETTA SCOTT WILLIAMS EXECUTIVE DIRECTOR, ALCOSAN	3300 PREBLE AVE. PITTSBURGH, PA 15233 (412) 766 - 4810 www.alcosan.org
---	---

ALLEGHENY COUNTY SANITARY AUTHORITY REGIONAL CONVEYANCE SYSTEM MISCELLANEOUS FLAP GATE, SLUICE GATE, AND VALVE REPLACEMENTS AT VARIOUS LOCATIONS	M-34 FLAP GATE/TIDEFLEX REPLACEMENT EROSION AND SEDIMENT CONTROL PLAN
---	--

Contract:	1818
CAD File Name:	1818-M-34-ES-01.DWG
Date:	06/11/2025
Sheet:	39 of 68

GENERAL NOTES:

1. ALL EARTH DISTURBANCES, INCLUDING CLEARING AND GRUBBING AS WELL AS CUTS AND FILLS SHALL BE DONE IN ACCORDANCE WITH THE APPROVED E&S PLAN. A COPY OF THE APPROVED DRAWINGS MUST BE AVAILABLE AT THE PROJECT SITE AT ALL TIMES. THE REVIEWING AGENCY SHALL BE NOTIFIED OF ANY CHANGES TO THE APPROVED PLAN PRIOR TO IMPLEMENTATION OF THOSE CHANGES. THE REVIEWING AGENCY MAY REQUIRE A WRITTEN SUBMITTAL OF THOSE CHANGES FOR REVIEW AND APPROVAL AT ITS DISCRETION.

2. AT LEAST 3 DAYS PRIOR TO STARTING ANY EARTH DISTURBANCE ACTIVITIES, OR EXPANDING INTO AN AREA PREVIOUSLY UNMARKED, THE PENNSYLVANIA ONE CALL SYSTEM INC. SHALL BE NOTIFIED AT 1-800-242-1776 FOR THE LOCATION OF EXISTING UNDERGROUND UTILITIES.

3. ALL EARTH DISTURBANCE ACTIVITIES SHALL PROCEED IN ACCORDANCE WITH THE SEQUENCE PROVIDED ON THE PLAN DRAWINGS. DEVIATION FROM THAT SEQUENCE MUST BE APPROVED IN WRITING FROM THE DEPARTMENT PRIOR TO IMPLEMENTATION.

4. CLEARING, GRUBBING, AND TOPSOIL STRIPPING SHALL BE LIMITED TO THOSE AREAS DESCRIBED IN EACH STAGE OF THE CONSTRUCTION SEQUENCE. GENERAL SITE CLEARING, GRUBBING AND TOPSOIL STRIPPING MAY NOT COMMENCE IN ANY STAGE OR PHASE OF THE PROJECT UNTIL THE E&S BMPS SPECIFIED BY THE BMP SEQUENCE FOR THAT STAGE OR PHASE HAVE BEEN INSTALLED AND ARE FUNCTIONING AS DESCRIBED IN THIS E&S PLAN.

5. AT NO TIME SHALL CONSTRUCTION VEHICLES BE ALLOWED TO ENTER AREAS OUTSIDE THE LIMIT OF DISTURBANCE BOUNDARIES SHOWN ON THE PLAN MAPS. THESE AREAS MUST BE CLEARLY MARKED AND FENCED OFF BEFORE CLEARING AND GRUBBING OPERATIONS BEGIN.

6. AT NO TIME SHALL THE COMBINED SEWER PIPE BE IMPACTED. CONTRACTOR SHALL EXERCISE CAUTION DURING EXCAVATION NEAR THE COMBINED SEWER PIPE.

7. IMMEDIATELY UPON DISCOVERING UNFORESEEN CIRCUMSTANCES POSING THE POTENTIAL FOR ACCELERATED EROSION AND/OR SEDIMENT POLLUTION, THE OPERATOR SHALL IMPLEMENT APPROPRIATE BEST MANAGEMENT PRACTICES TO MINIMIZE THE POTENTIAL FOR EROSION AND SEDIMENT POLLUTION AND NOTIFY THE REGIONAL OFFICE OF THE DEPARTMENT.

8. ALL BUILDING MATERIALS AND WASTES SHALL BE REMOVED FROM THE SITE AND RECYCLED OR DISPOSED OF IN ACCORDANCE WITH THE DEPARTMENT'S SOLID WASTE MANAGEMENT REGULATIONS AT 25 PA. CODE 260.1 ET SEQ., 271.1, AND 287.1 ET. SEQ. NO BUILDING MATERIALS OR WASTES OR UNUSED BUILDING MATERIALS SHALL BE BURNED, BURIED, DUMPED, OR DISCHARGED AT THE SITE.

9. ALL OFF-SITE WASTE AND BORROW AREAS MUST HAVE AN E&S PLAN APPROVED BY THE DEPARTMENT FULLY IMPLEMENTED PRIOR TO BEING ACTIVATED.

10. THE CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT ANY MATERIAL BROUGHT ON SITE IS CLEAN FILL. FORM FP-001 MUST BE RETAINED BY THE PROPERTY OWNER FOR ANY FILL MATERIAL AFFECTED BY A SPILL OR RELEASE OF A REGULATED SUBSTANCE BUT QUALIFYING AS CLEAN FILL DUE TO ANALYTICAL TESTING.

11. ALL PUMPING OF WATER FROM ANY WORK AREA SHALL BE DONE ACCORDING TO THE PROCEDURE DESCRIBED IN THIS PLAN, OVER UNDISTURBED VEGETATED AREAS.

12. UNTIL THE SITE IS STABILIZED, ALL EROSION AND SEDIMENT BMPS SHALL BE MAINTAINED PROPERLY. MAINTENANCE SHALL INCLUDE INSPECTIONS OF ALL EROSION AND SEDIMENT BMPS AFTER EACH RUNOFF EVENT AND ON A WEEKLY BASIS. ALL PREVENTIVE AND REMEDIAL MAINTENANCE WORK, INCLUDING CLEAN OUT, REPAIR, REPLACEMENT, REGRADING, RESEEDING, REMULCHING AND RENETTING MUST BE PERFORMED IMMEDIATELY. IF THE E&S BMPS FAIL TO PERFORM AS EXPECTED, REPLACEMENT RATIONS OF THOSE INSTALLED SHALL BE INSTALLED IMMEDIATELY.

13. IT IS RECOMMENDED THAT A LOG SHOWING DATES THAT E&S BMPS WERE INSPECTED AS WELL AS ANY DEFICIENCIES FOUND AND THE DATE THEY WERE CORRECTED BE MAINTAINED ON THE SITE AND BE MADE AVAILABLE TO REGULATORY AGENCY OFFICIALS AT THE TIME OF INSPECTION.

14. SEDIMENT TRACKED ONTO ANY PUBLIC ROADWAY OR SIDEWALK SHALL BE RETURNED TO THE CONSTRUCTION SITE BY THE END OF EACH WORK DAY AND DISPOSED IN THE MANNER DESCRIBED IN THIS PLAN. IN NO CASE SHALL THE SEDIMENT BE WASHED, SHOVELED, OR SWEEPED INTO ANY ROADSIDE DITCH, STORM SEWER, OR SURFACE WATER.

15. ALL SEDIMENT REMOVED FROM BMPS SHALL BE DISPOSED OF IN THE MANNER DESCRIBED ON THE PLAN DRAWINGS.

16. AREAS WHICH ARE TO BE TOPSOILED SHALL BE SCARIFIED TO A MINIMUM DEPTH OF 3 TO 5 INCHES - 6 TO 12 INCHES ON COMPACTED SOILS. PRIOR TO PLACEMENT OF TOPSOIL, AREAS TO BE VEGETATED SHALL HAVE A MINIMUM 4 INCHES OF TOPSOIL IN PLACE PRIOR TO SEEDING AND MULCHING. FILL OUTSLOPES SHALL HAVE A MINIMUM OF 2 INCHES OF TOPSOIL.

17. ALL FILLS SHALL BE COMPACTED AS REQUIRED TO REDUCE EROSION, SLIPPAGE, SETTLEMENT, SUBSIDENCE OR OTHER RELATED PROBLEMS. FILL INTENDED TO SUPPORT BUILDINGS, STRUCTURES AND CONDUITS, ETC. SHALL BE COMPACTED IN ACCORDANCE WITH LOCAL REQUIREMENTS OR CODES.

18. ALL EARTHEN FILLS SHALL BE PLACED IN COMPACTED LAYERS NOT TO EXCEED 9 INCHES IN THICKNESS.

19. FILL MATERIALS SHALL BE FREE OF FROZEN PARTICLES, BRUSH, ROOTS, SOD, OR OTHER FOREIGN OR OBJECTIONABLE MATERIALS THAT WOULD INTERFERE WITH OR PREVENT CONSTRUCTION OF SATISFACTORY FILLS.

20. FROZEN MATERIALS OR SOFT, MUCKY, OR HIGHLY COMPRESSIBLE MATERIALS SHALL NOT BE INCORPORATED INTO FILLS.

21. FILL SHALL NOT BE PLACED ON SATURATED OR FROZEN SURFACES.

22. ALL GRADED AREAS SHALL BE PERMANENTLY STABILIZED IMMEDIATELY UPON REACHING FINISHED GRADE. CUT SLOPES IN COMPETENT BEDROCK AND ROCK FILLS NEED NOT BE VEGETATED. SEEDED AREAS WITHIN 100 FEET OF A SURFACE WATER, OR AS OTHERWISE SHOWN ON THE PLAN DRAWINGS, SHALL BE BLANKETED ACCORDING TO THE STANDARDS OF THIS PLAN.

23. IMMEDIATELY AFTER EARTH DISTURBANCE ACTIVITIES CEASE IN ANY AREA OR SUBAREA OF THE PROJECT, THE OPERATOR SHALL STABILIZE ALL DISTURBED AREAS. DURING NON-GERMINATING MONTHS, MULCH, ROCK BANK ARMORING, OR PROTECTIVE BLANKETING SHALL BE APPLIED AS DESCRIBED IN THE PLAN. AREAS NOT AT FINISHED GRADE, WHICH WILL BE REACTIVATED WITHIN 1 YEAR, MAY BE STABILIZED IN ACCORDANCE WITH THE TEMPORARY STABILIZATION SPECIFICATIONS. THOSE AREAS WHICH WILL NOT BE REACTIVATED WITHIN 1 YEAR SHALL BE STABILIZED IN ACCORDANCE WITH THE PERMANENT STABILIZATION SPECIFICATIONS.

24. PERMANENT STABILIZATION IS DEFINED AS A MINIMUM UNIFORM, PERENNIAL 70% VEGETATIVE COVER OR OTHER PERMANENT NON-VEGETATIVE COVER WITH A DENSITY SUFFICIENT TO RESIST ACCELERATED EROSION. CUT AND FILL SLOPES SHALL BE CAPABLE OF RESISTING FAILURE DUE TO SLUMPING, SLIDING, OR OTHER MOVEMENTS.

25. E&S BMPS SHALL REMAIN FUNCTIONAL AS SUCH UNTIL ALL AREAS TRIBUTARY TO THEM ARE PERMANENTLY STABILIZED OR UNTIL THEY ARE REPLACED BY ANOTHER BMP APPROVED BY THE DEPARTMENT.

26. AFTER FINAL SITE STABILIZATION HAS BEEN ACHIEVED, TEMPORARY EROSION AND SEDIMENT BMPS MUST BE REMOVED, AREAS DISTURBED DURING REMOVAL OR CONVERSION OF THE BMPS SHALL BE STABILIZED IMMEDIATELY. IN ORDER TO ENSURE RAPID REVEGETATION OF DISTURBED AREAS, SUCH REMOVAL / CONVERSIONS ARE TO BE DONE ONLY DURING THE GERMINATING SEASON.

27. FAILURE TO CORRECTLY INSTALL E&S BMPS, FAILURE TO PREVENT SEDIMENT-LOADED RUNOFF FROM LEAVING THE CONSTRUCTION SITE, OR FAILURE TO TAKE IMMEDIATE CORRECTIVE ACTION TO RESOLVE FAILURE OF E&S BMPS MAY RESULT IN ADMINISTRATIVE, CIVIL, AND/OR CRIMINAL PENALTIES BEING INSTITUTED BY THE DEPARTMENT AS DEFINED IN SECTION 602 OF THE PENNSYLVANIA CLEAN STREAMS LAW. THE CLEAN STREAMS LAW PROVIDES FOR UP TO \$10,000 PER DAY IN CIVIL PENALTIES, UP TO \$10,000 IN SUMMARY CRIMINAL PENALTIES, AND UP TO \$25,000 IN MISDEMEANOR CRIMINAL PENALTIES FOR EACH VIOLATION.

RECYCLING AND DISPOSAL PROCEDURES OF CONSTRUCTION WASTES

1. ALL OFF-SITE WASTE AND BORROW AREAS MUST HAVE AN E&S CONTROL PLAN APPROVED BY THE PADEP FULLY IMPLEMENTED PRIOR TO BEING ACTIVATED. GARBAGE IS TO BE REMOVED FROM THE SITE DAILY BY THE CONTRACTOR.

2. THE CONTRACTOR WILL DISPOSE OF ALL OTHER SCRAP MATERIAL. THE SCRAP MATERIAL MUST BE REMOVED FROM THE SITE DAILY AND DISPOSED OF OR RECYCLED AT A PROPERLY LICENSED/PERMITTED FACILITY. THE CONTRACTOR WILL BE RESPONSIBLE FOR ANY PERMITS AND/OR DISPOSAL FEES. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE TO ASSURE THAT ALL MATERIALS ARE HANDLED AND DISPOSED OF IN ACCORDANCE WITH APPLICABLE LAWS, RULES, AND REGULATIONS, INCLUDING, BUT NOT LIMITED TO THOSE ISSUED BY THE ENVIRONMENTAL PROTECTION AGENCY, PADEP, AND THE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION.

4. ALL WASTE OR EXCESS MATERIALS NOT SUITABLE FOR THE ON-SITE STOCKPILE OR BACKFILL SHALL BE DISPOSED OF IN ACCORDANCE WITH THE DEPARTMENT'S SOLID WASTE MANAGEMENT REGULATIONS AT 25 PA CODE CHAPTER 260 §260.1 ET SEQ. 271.1 AND 287.1 ET. SEQ. AT THE PADEP-APPROVED WASTE SITE WHERE FEASIBLE CONSTRUCTION WASTE MATERIALS WILL BE RECYCLED OR WILL BE TAKEN TO THE NEAREST PADEP APPROVED FACILITY FOR DISPOSAL. EXCESS SOIL MATERIAL IF ANY WILL BE SPREAD AND REVEGETATED WITHIN THE ROW. OFF-SITE SPOIL AND/OR BORROW SITES MUST BE OPERATED UNDER A CURRENT NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM PERMIT.

PERSONS RESPONSIBLE FOR CONSTRUCTION AND OFF SITE DISPOSAL REQUIREMENTS

1. IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE SATISFACTORY SOIL E&SC AND TO INTERFACE WITH APPLICABLE REGULATORY AGENCIES.

2. THE CONTRACTOR IS RESPONSIBLE FOR HAVING AN APPROVED E&SC PLAN AND FOR CONFIRMING THAT AN ACTIVE E&SC PERMIT EXISTS FOR ANY OFF-SITE BORROW AREA LOCATIONS. IF OFF-SITE DISPOSAL IS REQUIRED, DISPOSAL MUST OCCUR AT A SITE APPROVED BY THE PADEP. PROOF OF THESE PERMISSIONS MUST BE PROVIDED TO THE OWNER AND APPLICABLE REGULATORY AGENCIES PRIOR TO USE. ALL FILL MATERIAL MUST BE USED IN ACCORDANCE WITH THE PADEP'S POLICY "MANAGEMENT OF FILL" DOCUMENT NUMBER 258-2182-773. ENVIRONMENTAL DUE DILIGENCE IS DEFINED AS: INVESTIGATIVE TECHNIQUES, INCLUDING, BUT NOT LIMITED TO, VISUAL PROPERTY INSPECTIONS, ELECTRONIC DATA BASE SEARCHES, REVIEW OF PROPERTY OWNERSHIP, REVIEW OF PROPERTY USE HISTORY, SANBORN MAPS, ENVIRONMENTAL QUESTIONNAIRES, TRANSACTION SCREENS, ANALYTICAL TESTING, ENVIRONMENTAL ASSESSMENTS OR AUDITS.

3. IN THE EVENT THE CONTRACTOR WISHES TO MODIFY THE E&SC PLAN, A COPY OF THE REVISED E&SCP MUST BE SUBMITTED TO THE ENGINEER AND ALCOSAN FOR APPROVAL.

MAINTENANCE PROGRAM

1. AFTER CONSTRUCTION IS COMPLETED AND SITE HAS REACHED PERMANENT STABILIZATION, ALL TEMPORARY BMPS WILL BE REMOVED AND ANY LAND DISTURBED BY REMOVAL WILL BE PERMANENTLY STABILIZED, UNLESS OTHERWISE SPECIFIED. MAINTENANCE MUST BE COMPLETED IMMEDIATELY AFTER AN INSPECTION IDENTIFIES THAT A BMP IS NOT FUNCTIONING.

2. IF CONCENTRATED FLOW AREAS FORM DUE TO ANY STORM EVENT AND ANY AREA BECOMES UNSTABLE, THE AREA SHALL BE STABILIZED BY INSTALLING ADDITIONAL BMPS IN THE CONCENTRATED FLOW AREAS. ANY REQUIRED REPAIRS OR MAINTENANCE SHALL BE MADE IMMEDIATELY.

3. THE CONTRACTOR SHALL ASSESS THE WORKING CONDITION OF THE E&S MEASURES AT LEAST WEEKLY AND AFTER EACH MEASURABLE RUNOFF EVENT (GREATER THAN ONE-QUARTER INCH IN 24 HOURS OR ANY SIGNIFICANT THAW EVENT). DAMAGED, BLOCKED, OR OTHERWISE COMPROMISED MEASURES OBSERVED DURING THE INSPECTION SHALL BE REPAIRED IMMEDIATELY.

4. SEDIMENT BARRIERS SHALL BE INSPECTED WEEKLY AND AFTER EACH MEASURABLE RUNOFF EVENT. BARRIERS SHALL BE INSPECTED TO ENSURE THEY HAVE NOT BEEN DISLODGED OR BROKEN. SEDIMENT SHALL BE REMOVED WHEN ACCUMULATIONS REACH (1/2) ONE-HALF THE ABOVEGROUND HEIGHT OF THE BARRIER. DAMAGED BARRIER SHALL BE REPAIRED IN ACCORDANCE WITH THE MANUFACTURERS RECOMMENDATIONS, OR REPLACED WITHIN TWENTY-FOUR (24) HOURS OF INSPECTION. EROSION AND UNDERCUTTING OF SEDIMENT BARRIER SHALL BE PROMPTLY REPAIRED.

5. IF USED DURING CONSTRUCTION, BIODEGRADABLE FILTER SOCK SHALL BE REPLACED AFTER SIX (6) MONTHS; PHOTODEGRADABLE SOCKS AFTER ONE (1) YEAR; POLYPROPYLENE SOCKS SHALL BE REPLACED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. STAKES SHALL BE REMOVED FROM SOCKS UPON STABILIZATION OF THE AREAS TRIBUTARY TO A SOCK. SOCK MAY BE LEFT IN PLACE AND VEGETATED, OR REMOVED. IF LEFT IN PLACE, THE MESH SHALL BE CUT OPEN AND THE MULCH SPREAD AS A SOIL SUPPLEMENT.

6. IT IS RECOMMENDED THAT A LOG SHOWING DATES THAT E&S BMPS WERE INSPECTED AS WELL AS ALL DEFICIENCIES FOUND AND THE DATE THEY WERE CORRECTED BE MAINTAINED ON THE SITE AND BE MADE AVAILABLE TO REGULATORY AGENCY OFFICIALS AT THE TIME OF INSPECTION.

7. RE-VEGETATED AREAS SHALL BE INSPECTED FOR ADEQUATE VEGETATIVE COVER. AREAS EXHIBITING STRESSED VEGETATION OR SIGNS OF EROSION SHALL HAVE THE SEEDBED PREPARED AND HAVE SEED AND MULCH RE-APPLIED. ADDITIONAL MAINTENANCE ITEMS ARE OUTLINED IN THE "INSPECTION AND MAINTENANCE TABLE."

8. ALL BMPS SHALL BE INSPECTED, MAINTAINED, AND REPAIRED AS NEEDED TO ASSURE CONTINUED PERFORMANCE OF THEIR INTENDED FUNCTION. WHENEVER INSPECTION AND/OR MONITORING REVEALS THAT THE BMPS IDENTIFIED IN THE E&S PLAN ARE INADEQUATE, THE E&S PLAN SHALL BE MODIFIED, AS APPROPRIATE, IN A TIMELY MANNER. DAMAGED BMPS WILL BE REPAIRED OR REPLACED AS SOON AS PRACTICABLE, BUT NO MORE THAN SEVENTY-TWO (72) HOURS AFTER DISCOVERING THE DAMAGE. ANY SPILLAGE OR DISCHARGE OF POLLUTANTS SHALL BE REPORTED WITHIN TWENTY-FOUR (24) HOURS.

9. MAINTENANCE AND REPAIR OF HEAVY EQUIPMENT AND VEHICLES INVOLVING OIL CHANGES, HYDRAULIC SYSTEM DRAIN DOWN, SOLVENT AND DE-GREASING CLEANING OPERATIONS, FUEL TANK DRAIN DOWN AND REMOVAL, AND OTHER ACTIVITIES WHICH MAY RESULT IN DISCHARGE OR SPILLAGE OF POLLUTANTS TO THE GROUND OR INTO SURFACE WATER RUNOFF MUST BE CONDUCTED USING SPILL PREVENTION MEASURES, SUCH AS DRIP PANS. CONTAMINATED SURFACES SHALL BE CLEANED IMMEDIATELY FOLLOWING ANY DISCHARGE OR SPILL INCIDENT. CONTAMINATED SOIL MUST BE DISPOSED OF PROPERLY. EMERGENCY REPAIRS MAY BE PERFORMED ON-SITE USING TEMPORARY PLASTIC PLACED BENEATH AND, IF RAINING, OVER THE VEHICLE.

10. THE E&S PLAN SHALL BE RETAINED ON-SITE. THE E&S PLAN SHALL BE MODIFIED WHENEVER THERE IS A SIGNIFICANT CHANGE IN THE DESIGN, CONSTRUCTION, OPERATION, OR MAINTENANCE OF ANY BMP. THE PADEP MUST BE NOTIFIED OF ANY CHANGES. DEPENDING ON THE SIGNIFICANCE OF THE REVISION, A PERMIT MODIFICATION MAY NEED TO BE SUBMITTED TO THE PADEP.

11. AFTER FINAL SITE STABILIZATION HAS BEEN ACHIEVED OR AFTER TEMPORARY BMPS ARE NO LONGER NEEDED, TEMPORARY EROSION AND SEDIMENTATION CONTROLS MUST BE REMOVED WITHIN THIRTY (30) DAYS. ACCUMULATED SEDIMENT SHALL BE REMOVED OR STABILIZED ON SITE. AREAS DISTURBED DURING REMOVAL OF THE CONTROLS MUST BE STABILIZED IMMEDIATELY.

12. INSPECT DISCHARGE LOCATIONS TO ASCERTAIN EFFECTIVENESS OF CONTROLS. IMPLEMENT ADDITIONAL CONTROL MEASURES AS NEEDED.

13. UPON FINAL COMPLETION OF AN EARTH DISTURBANCE ACTIVITY OR ANY STAGE OR PHASE OF AN ACTIVITY, THE SITE SHALL IMMEDIATELY HAVE TOPSOIL RESTORED, REPLACED, OR AMENDED, SEEDED, MULCHED OR OTHERWISE PERMANENTLY STABILIZED AND PROTECTED FROM ACCELERATED EROSION AND SEDIMENTATION.

EROSION AND SEDIMENT CONTROL RECOMMENDED SEQUENCE OF CONSTRUCTION:

1. CONTACT PENNSYLVANIA ONE-CALL SYSTEM AT 1-800-242-1776 PRIOR TO ANY DIGGING, DRILLING, BLASTING, OR EXCAVATION.

2. CLEARLY DELINEATE THE LIMITS OF DISTURBANCE AND MARK PERTINENT SITE FEATURES (I.E. BMP LOCATIONS, ETC.).

3. INSTALL FILTER SOCKS IN THE LOCATIONS IDENTIFIED ON THE PLAN DRAWINGS.

4. INSTALL CONSTRUCTION ENTRANCE AND CONCRETE WASHOUT.

5. INSTALL COFFERDAM AND TURBIDITY BARRIER. EXERCISE CAUTION TO NOT IMPACT THE EXISTING COMBINED SEWER PIPE.

6. USE A PUMPED WATER FILTER BAG WHEN PUMPING WATER FROM THE WORK AREA. FILTER BAG SHOULD BE LOCATED IN WELL-VEGETATED (GRASSY) AREA, AND DISCHARGE ONTO STABLE, EROSION RESISTANT AREA, WHERE THIS IS NOT POSSIBLE, A GEOTEXTILE UNDERLAYMENT AND FLOW PATH SHOULD BE PROVIDED.

7. BEGIN REPAIR AND IMPROVEMENT ACTIVITIES.

8. REMOVE EXCAVATED MATERIAL IMMEDIATELY FROM SITE.

9. EARTH DISTURBANCE ACTIVITIES LEFT INACTIVE FOR FOUR OR MORE DAYS, SHOULD BE TEMPORARILY STABILIZED.

10. RESTORE AREA BY ADDING TOPSOIL, PERMANENT SEED, AND EROSION CONTROL BLANKET UPON COMPLETION OF REPAIR AND REPLACEMENT ACTIVITIES THAT HAVE ACHIEVED FINAL GRADE AND WILL NO LONGER BE SUBJECTED TO CONSTRUCTION ACTIVITY.

11. RE-SEED, AS NECESSARY, ANY AREAS THAT BECOME DISTURBED OR WHERE VEGETATION HAS NOT BEEN ESTABLISHED WITHIN THIRTY (30) DAYS.

12. REMOVE ALL TEMPORARY BMPS ONCE A UNIFORM 70% PERENNIAL VEGETATIVE COVER OR OTHER PERMANENT NON-VEGETATIVE COVER WITH A DENSITY OF SUFFICIENT TO RESIST ACCELERATED EROSION, HAS ESTABLISHED ON ALL PREVIOUSLY DISTURBED AREAS.

INSPECTION AND MAINTENANCE TABLE

EROSION AND SEDIMENT CONTROL MEASURE	INSPECTION SCHEDULE	MAINTENANCE REQUIREMENTS
PUMPED WATER FILTER BAG	PUMPED WATER FILTER BAGS SHALL BE INSPECTED DAILY AND AFTER EACH RUNOFF EVENT.	NEEDED REPAIRS SHALL BE INITIATED AFTER INSPECTION. THE CONTRACTOR SHALL KEEP INTAKE FREE FROM DEBRIS AND SILT. MAINTAIN PROPER PUMP RATE. IF PUMP IS NOT ADEQUATE TO DIVERT FLOW FROM THE WORK AREA, REPLACE. PUMPED WATER FILTER BAGS SHALL BE REPLACED WHEN THEY ARE HALF FULL. MAINTAIN DISCHARGE PIPE LOCATION TO DISCHARGE WATER DOWNSTREAM OF THE WORK AREA.
COMPOST FILTER SOCK	INSPECT WEEKLY AND AFTER EACH RUNOFF EVENT OF 0.25 INCHES OR GREATER. INITIATE REPAIRS WITHIN 24 HOURS AFTER INSPECTION.	SEDIMENT MUST BE REMOVED WHEN ACCUMULATED TO 1/2 ABOVE GROUND HEIGHT OF SOCK.
COFFERDAM	INSPECT DAILY AND AFTER EACH RUNOFF EVENT.	DAMAGED BARRIER SHALL BE REPAIRED IN ACCORDANCE WITH THE DETAIL OR REPLACED WITHIN TWENTY-FOUR (24) HOURS OF INSPECTION.
COMPOST FILTER SOCK CONCRETE WASHOUT	INSPECT DAILY. DAMAGED OR LEAKING WASHOUTS SHOULD BE DEACTIVATED AND REPAIRED IMMEDIATELY.	CARE SHALL BE TAKEN TO ENSURE CONTINUOUS CONTACT OF THE SOCK WITH THE PLASTIC SHEETING, WHERE NECESSARY, SOCKS MAY BE STACKED SO AS TO FORM A TRIANGULAR CROSS SECTION. ACCUMULATED MATERIALS SHALL BE REMOVED WHEN THEY REACH 1/2 HEIGHT OF COMPOST SOCK WASHOUT HEIGHT. PLASTIC SHEETING SHALL BE REPLACED WITH EACH CLEANING OF THE WASHOUT FACILITY.
TEMPORARY AND PERMANENT SEEDING	INSPECT WEEKLY AND AFTER EACH RUNOFF EVENT UNTIL PERENNIAL VEGETATION IS ESTABLISHED TO A MINIMUM UNIFORM 70% COVERAGE.	VEGETATED AREAS SHALL BE CONSIDERED PERMANENTLY STABILIZED WHEN A UNIFORM 70% PERENNIAL VEGETATIVE COVER HAS BEEN ACHIEVED. UNTIL SUCH COVERAGE HAS BEEN ACHIEVED, THE CONTRACTOR SHALL PROVIDE AND MAINTAIN INTERIM STABILIZATION MEASURES THAT ARE USED TO TREAT PROJECT RUNOFF. THE CONTRACTOR SHALL RESEED AS NECESSARY TO MEET FINAL COVERAGE.
ROCK CONSTRUCTION ENTRANCE	INSPECT DAILY AND AFTER EACH RUNOFF EVENT. INSPECT ROADWAYS FOR DEPOSITED SEDIMENT EACH WORK DAY.	NEEDED REPAIRS TO BE INITIATED IMMEDIATELY AFTER INSPECTION. FACE THICKNESS TO BE MAINTAINED TO DETAILED DIMENSIONS BY ADDING ROCK. MAINTAIN A STOCKPILE OF ROCK FOR THIS PURPOSE. AT THE END OF EACH WORK DAY, ALL SEDIMENT DEPOSITED ON PAVED ROADWAYS MUST BE RETURNED TO THE CONSTRUCTION SITE TOPSOIL PILE.
TURBIDITY BARRIER	INSPECT DAILY AND AFTER EACH RUNOFF EVENT OR AFTER HEAVY WINDS.	NECESSARY REPAIRS SHALL BE MADE IMMEDIATELY. ACCUMULATED SEDIMENT SHALL BE REMOVED PER THE MANUFACTURER'S DIRECTIONS, BUT NOT LESS THAN WHEN THE CAPACITY OF STORAGE HAS BEEN REDUCED BY HALF.
EROSION CONTROL BLANKET	INSPECT WEEKLY AND AFTER EACH RUNOFF EVENT UNTIL PERENNIAL VEGETATION IS ESTABLISHED TO A MINIMUM UNIFORM 70% COVERAGE THROUGHOUT THE BLANKETED AREA.	DAMAGED OR DISPLACED BLANKETS SHALL BE RESTORED OR REPLACED WITHIN 4 CALENDAR DAYS.
TREE PROTECTION (TEMPORARY CONSTRUCTION FENCE)	INSPECT DAILY TO ENSURE FENCE HAS NOT BEEN DAMAGED BY VEHICLES AND EQUIPMENT.	NEEDED REPAIRS SHALL BE INITIATED WITHIN 24 HOURS AFTER INSPECTION. REINSTALL DISTURBED CONSTRUCTION FENCE TO PREVENT UNAUTHORIZED PERSONNEL FROM ENTERING CONSTRUCTION AREAS.

NOTE: IT IS SUGGESTED THAT A "VISUAL SITE INSPECTION REPORT" (DEP FORM 3800-FM-BCW0271d, AS LAST REVISED) BE COMPLETED DURING EACH INSPECTION (DAILY/ WEEKLY AND FOLLOWING RUNOFF EVENTS) AND SHALL BE KEPT ON SITE AT ALL TIMES.

SOIL ON-SITE

• UB - URBAN LAND

• W - WATER

SOIL LIMITATIONS

• URBAN LAND SOIL IS SO ALTERED BY EARTH MOVING AND DISTURBANCES THAT THE ORIGINAL SOILS CANNOT BE IDENTIFIED; THEREFORE, SOIL LIMITATIONS ARE NOT ASSIGNED TO THIS SOIL CLASSIFICATION.

Designed by:

M.STEVENS

Drawn by:

M.STEVENS

Checked by:

C.CASADE

REVISION

REV NO.	DATE	DESCRIPTION	APPV
1	9/2/2025	ISSUED FOR BID	

Collective Efforts, LLC

Civil and Environmental Engineers
1000 West View Park Drive, Suite 7
Pittsburgh, PA. 15229
412.459.0114
www.collectiveefforts.com

gai consultants

COREEN M. CASADE
ENGINEER
NO. 004062

alcosan
allegheny county sanitary authority

ARLETTA SCOTT WILLIAMS
EXECUTIVE DIRECTOR, ALCOSAN

3300 PREBLE AVE.
PITTSBURGH, PA. 15233
(412) 766 - 4810
www.alcosan.org

ALLEGHENY COUNTY SANITARY AUTHORITY
REGIONAL CONVEYANCE SYSTEM
MISCELLANEOUS FLAP GATE, SLUICE GATE, AND VALVE REPLACEMENTS AT VARIOUS LOCATIONS

M-34
FLAP GATE/TIDEFLEX REPLACEMENT
EROSION AND SEDIMENT CONTROL DETAILS

Contract:

1818

CAD File Name:

1818-M-34-ES-02.DWG

Date:

06/11/2025

Sheet:

40 of 68

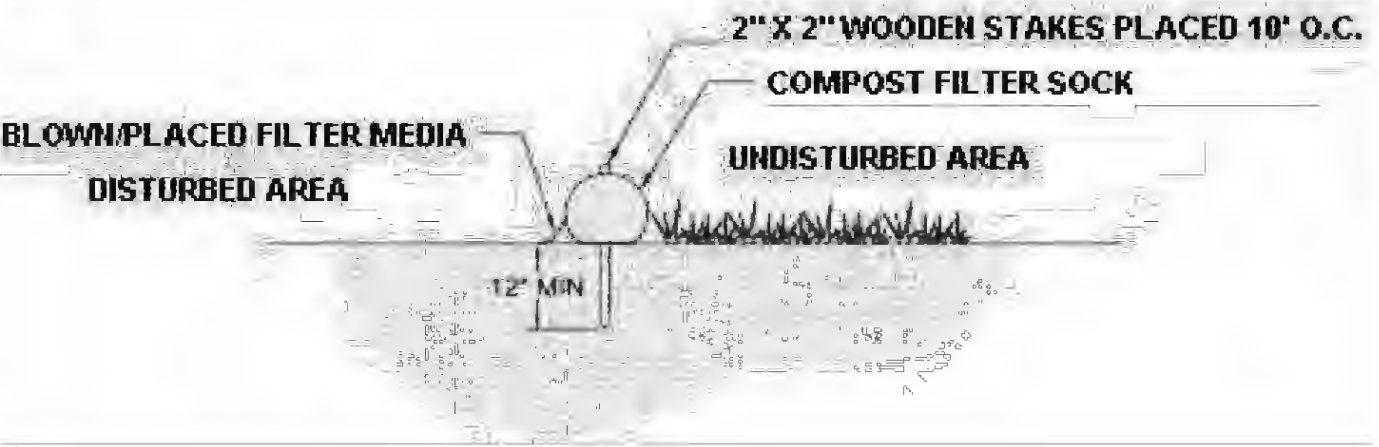
GAI CAD FILE PATH: S:\CLIENTS AND PROJECTS\33 - GAI\22-035-134 GAI - ALCOSAN REGIONAL CONVEYANCE VALVE REPLACEMENT\G - CADD\ESPC PLAN - M-34\1818\M-34-ES-02.DWG

TABLE 4.1 Compost Sock Fabric Minimum Specifications					
Material Type	3 mil HDPE	5 mil HDPE	5 mil HDPE	Multi-Filament Polypropylene (MFPP)	Heavy Duty Multi-Filament Polypropylene (HDMFPP)
Material Characteristics	Photo-degradable	Photo-degradable	Bio-degradable	Photo-degradable	Photo-degradable
Sock Diameters	12" 18"	12" 18" 24" 32"	12" 18" 24" 32"	12" 18" 24" 32"	12" 18" 24" 32"
Mesh Opening	3/8"	3/8"	3/8"	3/8"	1/8"
Tensile Strength		26 psi	26 psi	44 psi	202 psi
Ultraviolet Stability % Original Strength (ASTM G-155)	23% at 1000 hr.	23% at 1000 hr.		100% at 1000 hr.	100% at 1000 hr.
Minimum Functional Longevity	6 months	9 months	6 months	1 year	2 years
Two-ply systems					
Inner Containment Netting			HDPE biaxial net		
			Continuously wound		
			Fusion-welded junctures		
Outer Filtration Mesh			3/4" X 3/4" Max. aperture size		
			Composite Polypropylene Fabric (Woven layer and non-woven fleece mechanically fused via needle punch)		
			3/16" Max. aperture size		
Sock fabrics composed of burlap may be used on projects lasting 6 months or less.					
Filtrexx & JMD					

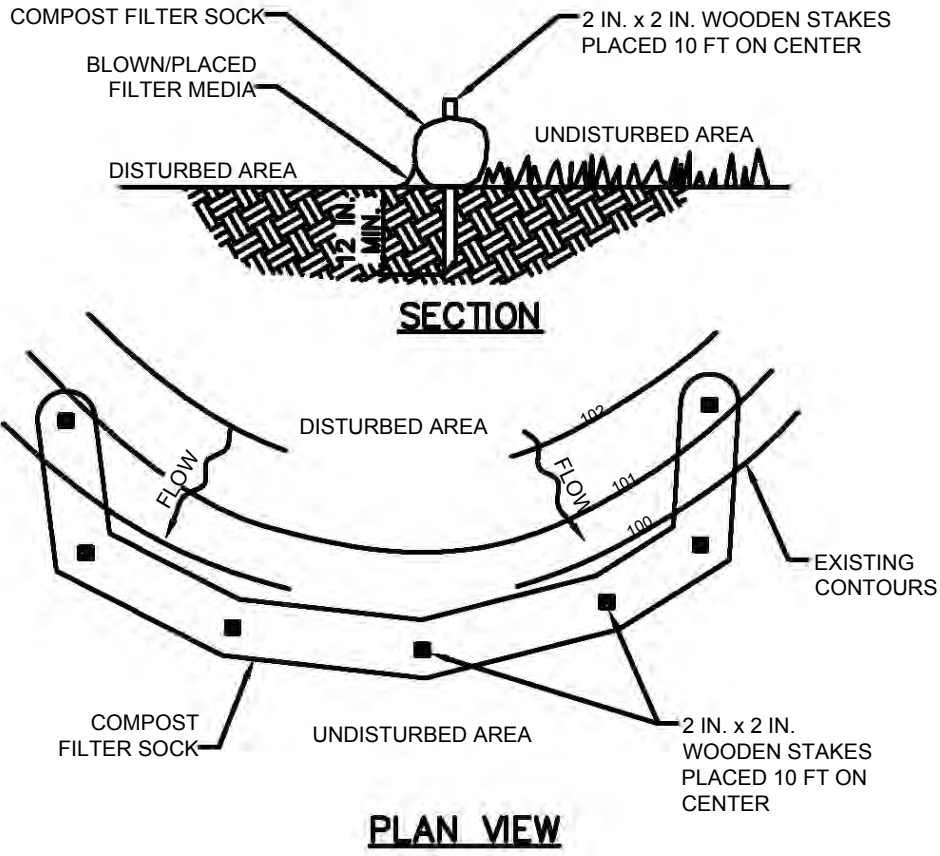
TABLE 4.2 Compost Standards	
Organic Matter Content	80% - 100% (dry weight basis)
Organic Portion	Fibrous and elongated
pH	5.5 - 8.0
Moisture Content	35% - 55%
Particle Size	98% pass through 1" screen
Soluble Salt Concentration	5.0 dS/m (mmhos/cm) Maximum
Filtrexx	

STANDARD E&S WORKSHEET #1
Compost Filter Socks

PROJECT NAME: M-34 – ALCOSAN Regional Conveyance Valve Replacement
LOCATION: City of Pittsburgh, Allegheny County, PA
PREPARED BY: MWS DATE: 04/07/2025
CHECKED BY: BJS DATE: 04/08/2025



SOCK NO.	Dia. In.	LOCATION	SLOPE PERCENT	SLOPE LENGTH ABOVE BARRIER (FT)
CFS-01	18	South of stairs leading down to M-34 structure	24.0	75
CFS-02	18	North of stairs leading down to M-34 structure	23.1	78
CFS-03	12	Northern most CFS, surrounding pumped water filter bag	7.9	140



NOTES:

SOCK FABRIC SHALL MEET STANDARDS OF TABLE 4.1 OF THE PA DEP EROSION CONTROL MANUAL. COMPOST SHALL MEET THE STANDARDS OF TABLE 4.2 OF THE PA DEP EROSION CONTROL MANUAL.

COMPOST FILTER SOCK SHALL BE PLACED AT EXISTING LEVEL GRADE. BOTH ENDS OF THE BARRIER SHALL BE EXTENDED AT LEAST 8 FEET UP SLOPE AT 45 DEGREES TO THE MAIN BARRIER ALIGNMENT. MAXIMUM SLOPE LENGTH ABOVE ANY BARRIER SHALL NOT EXCEED THAT SPECIFIED FOR THE SIZE OF THE SOCK AND THE SLOPE OF ITS TRIBUTARY AREA.

TRAFFIC SHALL NOT BE PERMITTED TO CROSS COMPOST FILTER SOCKS.

ACCUMULATED SEDIMENT SHALL BE REMOVED WHEN IT REACHES 1/2 THE ABOVE GROUND HEIGHT OF THE BARRIER AND DISPOSED IN THE MANNER DESCRIBED ELSEWHERE IN THE PLAN.

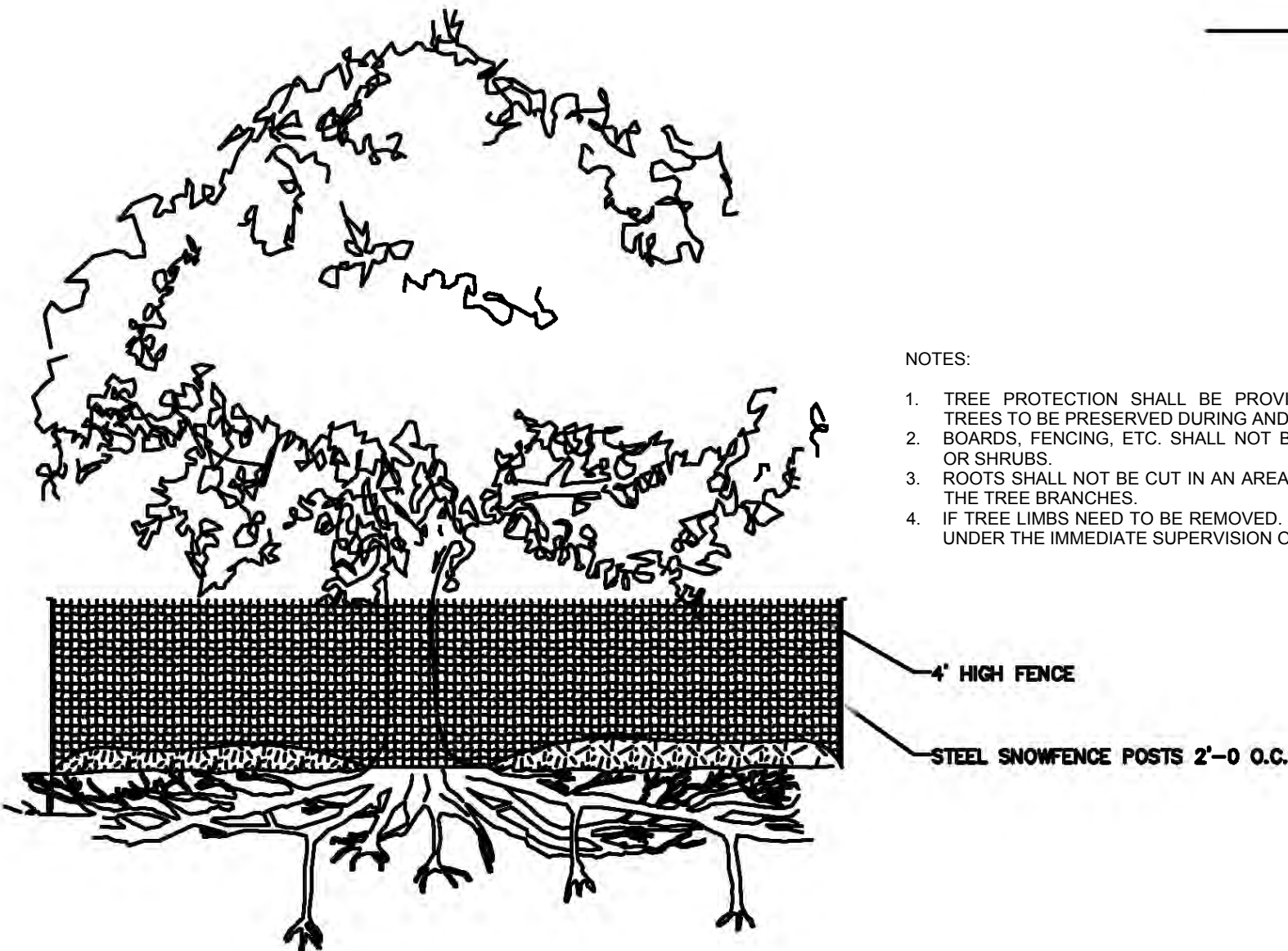
COMPOST FILTER SOCKS SHALL BE INSPECTED WEEKLY AND AFTER EACH RUNOFF EVENT. DAMAGED SOCKS SHALL BE REPAIRED ACCORDING TO MANUFACTURER'S SPECIFICATIONS OR REPLACED WITHIN 24 HOURS OF INSPECTION.

BIODEGRADABLE COMPOST FILTER SOCKS SHALL BE REPLACED AFTER 6 MONTHS; PHOTODEGRADABLE SOCKS AFTER 1 YEAR. POLYPROPYLENE SOCKS SHALL BE REPLACED ACCORDING TO MANUFACTURER'S RECOMMENDATIONS.

UPON STABILIZATION OF THE AREA TRIBUTARY TO THE SOCK, STAKES SHALL BE REMOVED. THE SOCK MAY BE LEFT IN PLACE AND VEGETATED OR RIGIDLY REINFORCED. IN THE LATTER CASE, THE MESH SHALL BE CUT OPEN AND THE MULCH SPREAD AS A SOIL SUPPLEMENT.

STANDARD CONSTRUCTION DETAIL #4-1
COMPOST FILTER SOCK

NOT TO SCALE

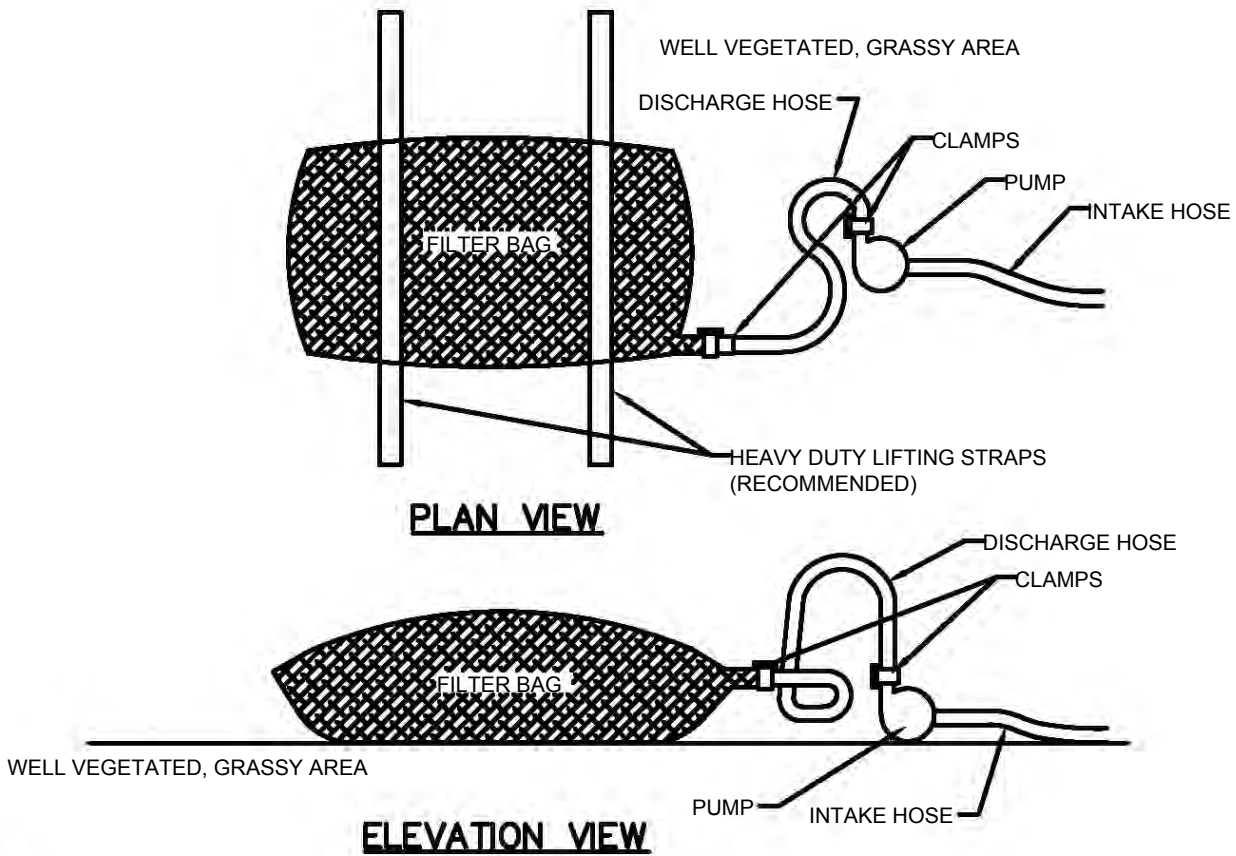


NOTES:

- TREE PROTECTION SHALL BE PROVIDED FOR ANY AND ALL TREES TO BE PRESERVED DURING AND AFTER CONSTRUCTION.
- BOARDS, FENCING, ETC. SHALL NOT BE NAILED TO ANY TREES OR SHRUBS.
- ROOTS SHALL NOT BE CUT IN AN AREA INSIDE THE DRIP LINE OF THE TREE BRANCHES.
- IF TREE LIMBS NEED TO BE REMOVED, IT SHALL BE PERFORMED UNDER THE IMMEDIATE SUPERVISION OF A CERTIFIED ARBORIST.

TREE PROTECTION DETAIL

NOT TO SCALE



NOTES:

LOW VOLUME FILTER BAGS SHALL BE MADE FROM NON-WOVEN GEOTEXTILE MATERIAL SEWN WITH HIGH STRENGTH, DOUBLE STITCHED "J" TYPE SEAMS. THEY SHALL BE CAPABLE OF TRAPPING PARTICLES LARGER THAN 150 MICRONS. HIGH VOLUME FILTER BAGS SHALL BE MADE FROM WOVEN GEOTEXTILES THAT MEET THE FOLLOWING STANDARDS:

PROPERTY	TEST METHOD	MINIMUM STANDARD
AVG. WIDE WIDTH STRENGTH	ASTM D-4884	60 LB/IN
GRAB TENSILE	ASTM D-4632	205 LB
PUNCTURE	ASTM D-4833	110 LB
MULLEN BURST	ASTM D-3786	350 PSI
UV RESISTANCE	ASTM D-4355	70%
AOS % RETAINED	ASTM D-4751	80 SIEVE

A SUITABLE MEANS OF ACCESSING THE BAG WITH MACHINERY REQUIRED FOR DISPOSAL PURPOSES SHALL BE PROVIDED. FILTER BAGS SHALL BE REPLACED WHEN THEY BECOME 1/2 FULL OF SEDIMENT. SPARE BAGS SHALL BE KEPT AVAILABLE FOR REPLACEMENT OF THOSE THAT HAVE FAILED OR ARE FILLED. BAGS SHALL BE PLACED ON STRAPS TO FACILITATE REMOVAL UNLESS BAGS COME WITH LIFTING STRAPS ALREADY ATTACHED.

BAGS SHALL BE LOCATED IN WELL-VEGETATED (GRASSY) AREA, AND DISCHARGE ONTO STABLE, EROSION RESISTANT AREAS. WHERE THIS IS NOT POSSIBLE, A GEOTEXTILE UNDERLAYMENT AND FLOW PATH SHALL BE PROVIDED. BAGS MAY BE PLACED ON FILTER STONE TO INCREASE DISCHARGE CAPACITY. BAGS SHALL NOT BE PLACED ON SLOPES GREATER THAN 5%. FOR SLOPES EXCEEDING 5%, CLEAN ROCK OR OTHER NON-ERODIBLE AND NON-POLLUTING MATERIAL MAY BE PLACED UNDER THE BAG TO REDUCE SLOPE STEEPNESS.

NO DOWNSLOPE SEDIMENT BARRIER IS REQUIRED FOR MOST INSTALLATIONS. COMPOST BERM OR COMPOST FILTER SOCK SHALL BE INSTALLED BELOW BAGS LOCATED IN HQ OR EV WATERSHEDS, WITHIN 50 FEET OF ANY RECEIVING SURFACE WATER OR WHERE GRASSY AREA IS NOT AVAILABLE.

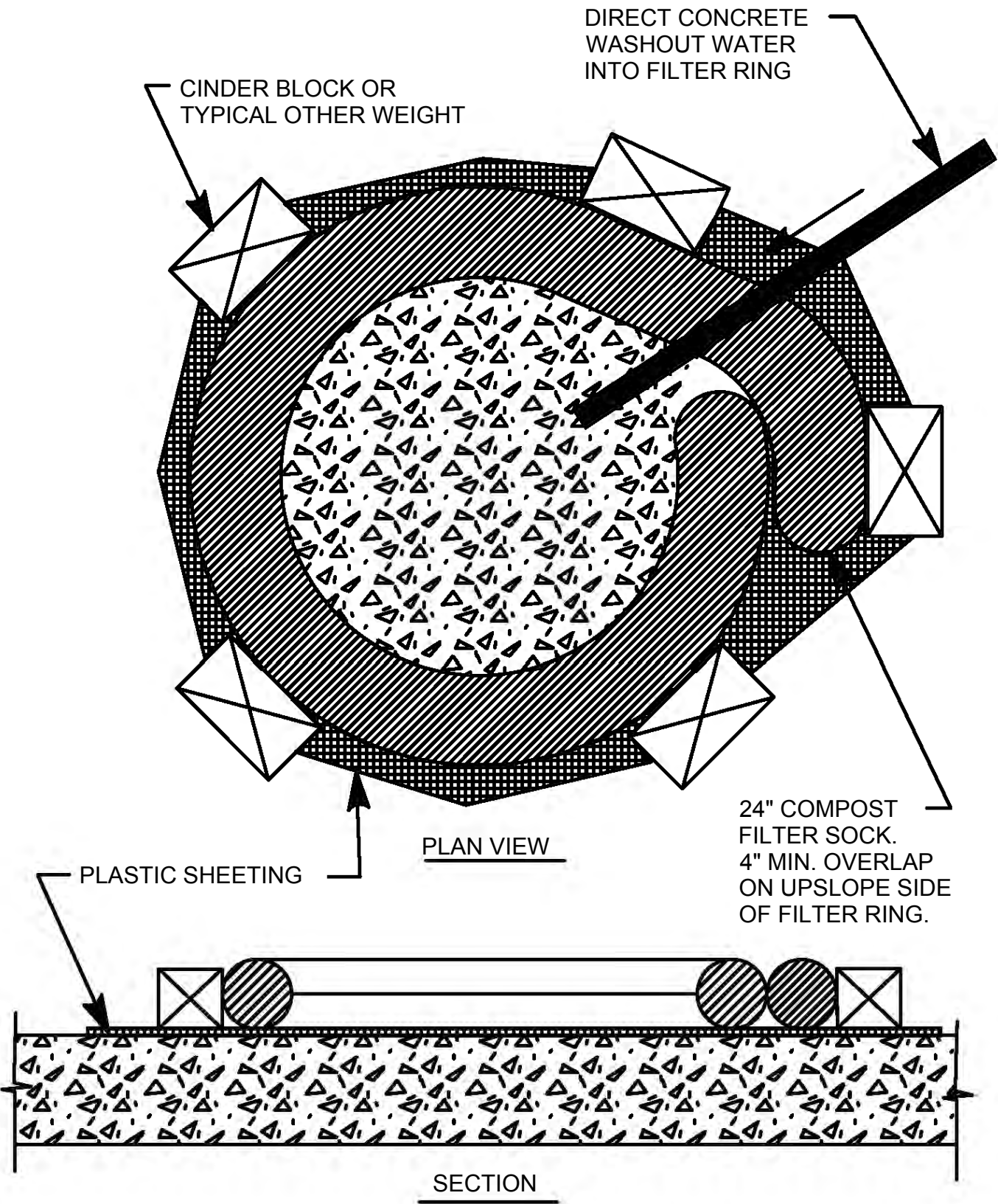
THE PUMP DISCHARGE HOSE SHALL BE INSERTED INTO THE BAGS IN THE MANNER SPECIFIED BY THE MANUFACTURER AND SECURELY CLAMPED. A PIECE OF PVC PIPE IS RECOMMENDED FOR THIS PURPOSE.

THE PUMPING RATE SHALL BE NO GREATER THAN 750 GPM OR 1/2 THE MAXIMUM SPECIFIED BY THE MANUFACTURER, WHICHEVER IS LESS. PUMP INTAKES SHALL BE FLOATING AND SCREENED.

FILTER BAGS SHALL BE INSPECTED DAILY. IF ANY PROBLEM IS DETECTED, PUMPING SHALL CEASE IMMEDIATELY AND NOT RESUME UNTIL THE PROBLEM IS CORRECTED.

STANDARD CONSTRUCTION DETAIL #3-16
PUMPED WATER FILTER BAG

NOT TO SCALE



NOTES:

- INSTALL ON FLAT GRADE FOR OPTIMUM PERFORMANCE.
- 18" DIAMETER FILTER SOCK MAY BE STACKED ONTO DOUBLE 24" DIAMETER SOCKS IN PYRAMIDAL CONFIGURATION FOR ADDED HEIGHT.
- A SUITABLE IMPERVIOUS 10 MIL PLASTIC SHEETING SHALL BE PLACED AT THE LOCATION OF THE WASHOUT PRIOR TO INSTALLING THE SOCKS.
- COMPOST FILTER SOCKS SHALL BE HELD IN PLACE WITH CINDER BLOCKS OR OTHER WEIGHT.
- TEMPORARY COMPOST SOCK WASHOUT AREA AND RESIDUAL CONCRETE SHALL BE REMOVED AND DISPOSED OFF-SITE.

TEMPORARY COMPOST FILTER SOCK
CONCRETE WASHOUT INSTALLATION

NOT TO SCALE

Designed by:	REVISION				APPV
M.STEVENS	REV No.	DATE	DESCRIPTION		
Drawn by:	1	9/2/2025	ISSUED FOR BID		
M.STEVENS					
Checked by:					
C.CASADE					



Collective Efforts, LLC

Civil and Environmental Engineers
1000 West View Park Drive, Suite 7
Pittsburgh, PA. 15229
412.459.0114
www.collectiveefforts.com



gai consultants



Coreen M. Casadei

ENGINEER

NO. 000000000

STATE OF PENNSYLVANIA



alcosan

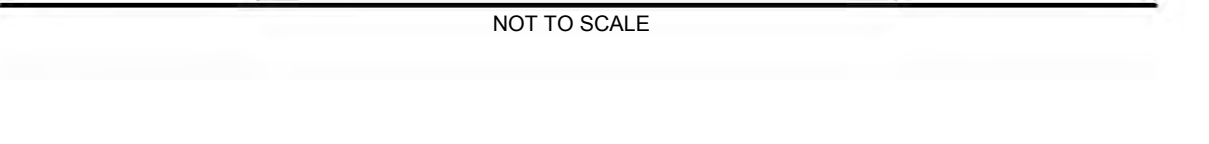
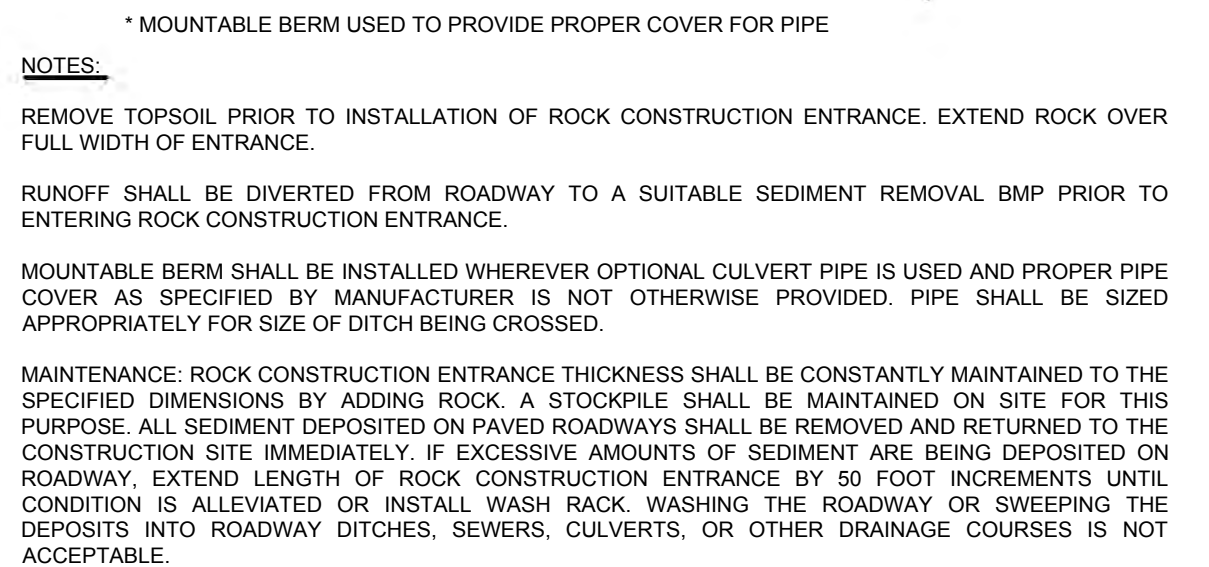
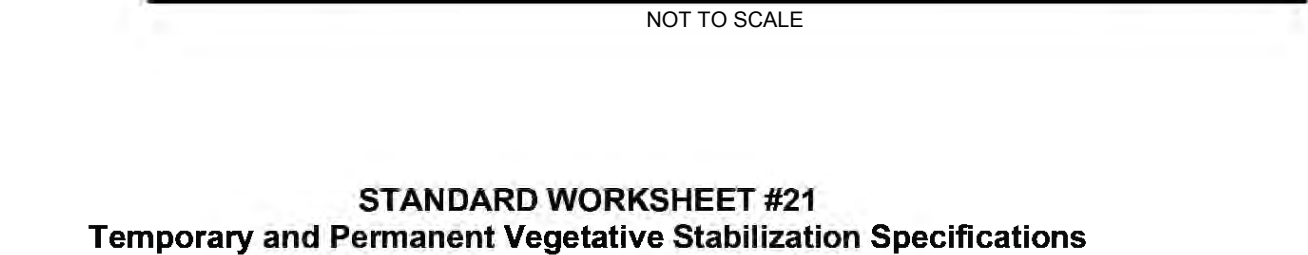
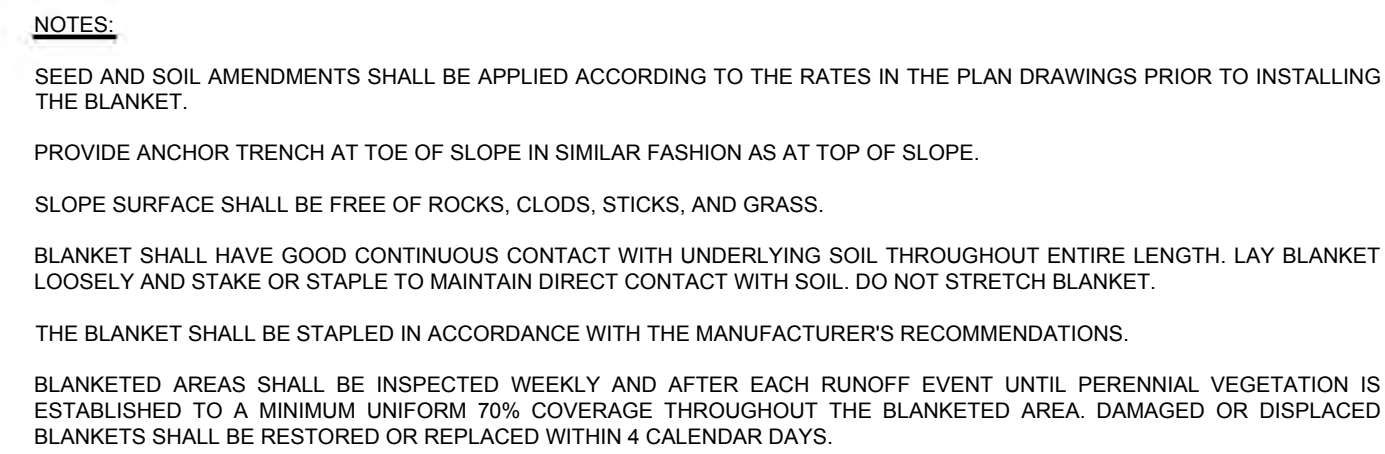
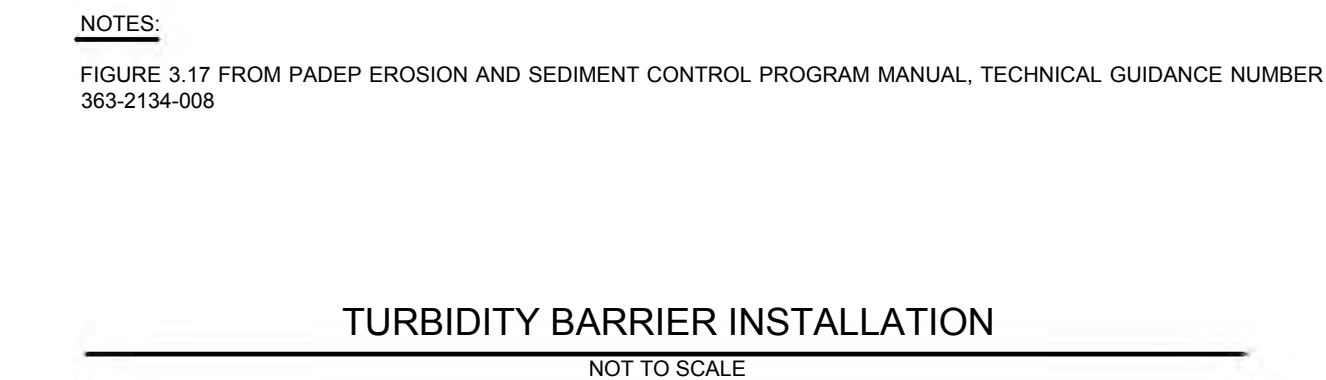
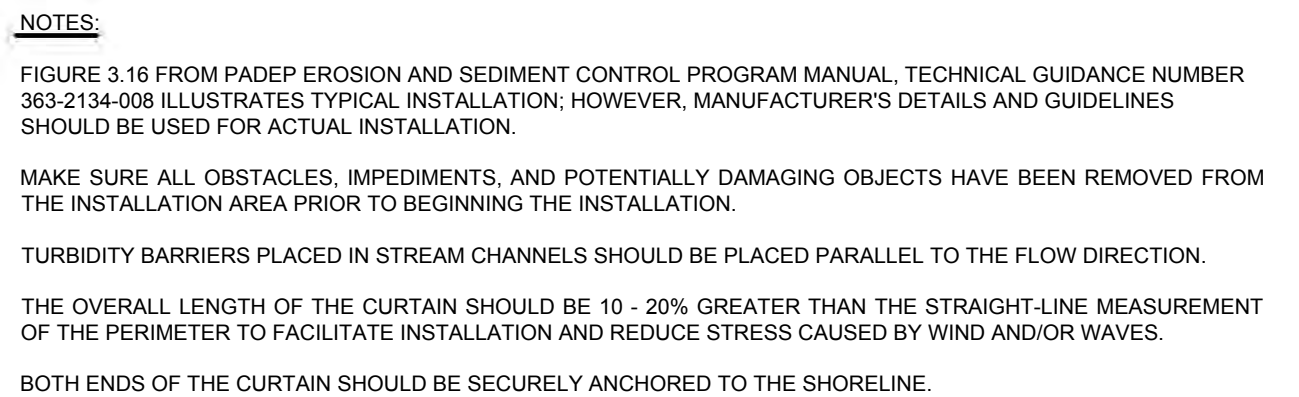
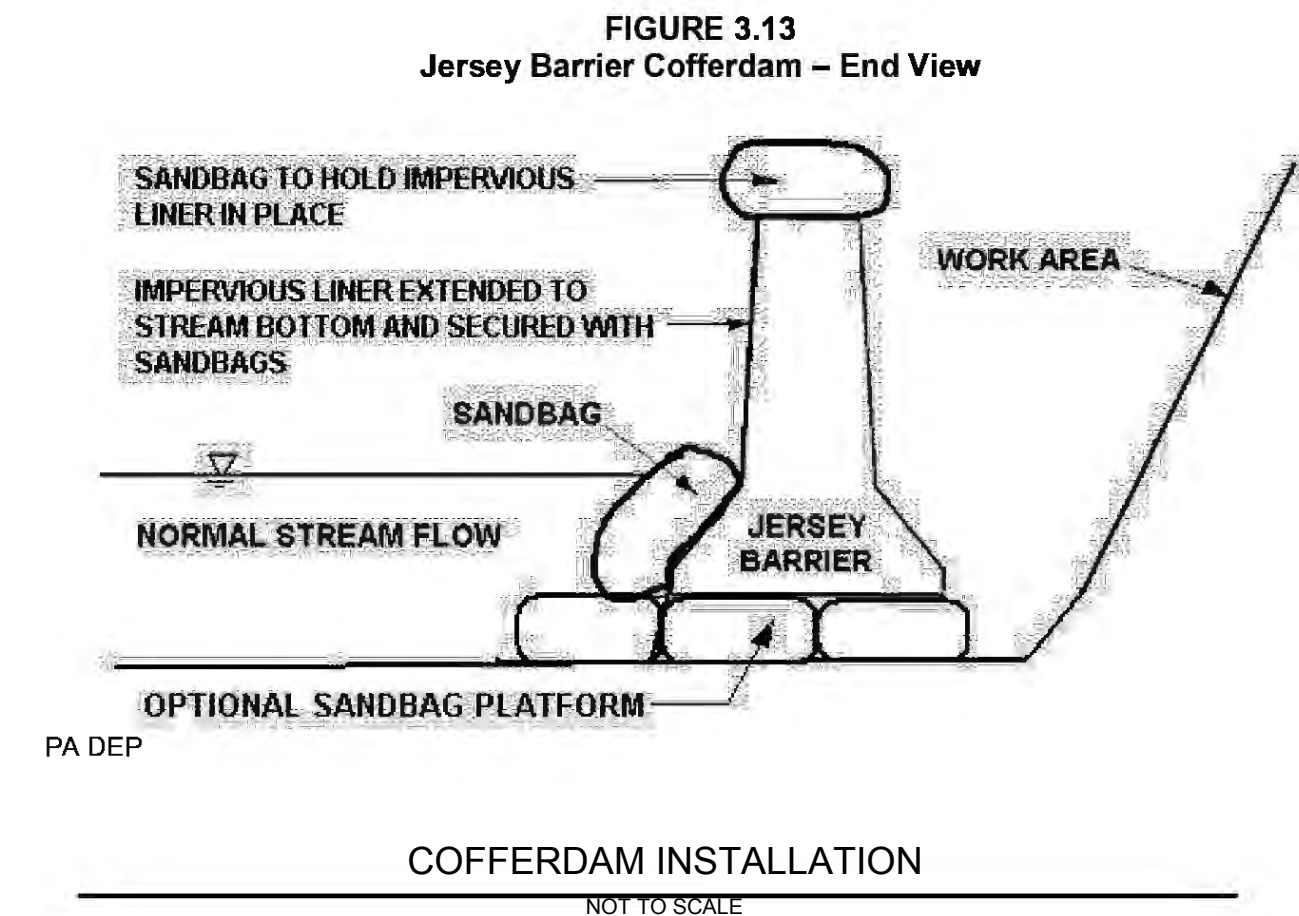
allegheny county sanitary authority

ARLETTA SCOTT WILLIAMS
EXECUTIVE DIRECTOR, ALCOSAN

3300 PREBLE AVE.
PITTSBURGH, PA 15233
(412) 766 - 4810

www.alcosan.org

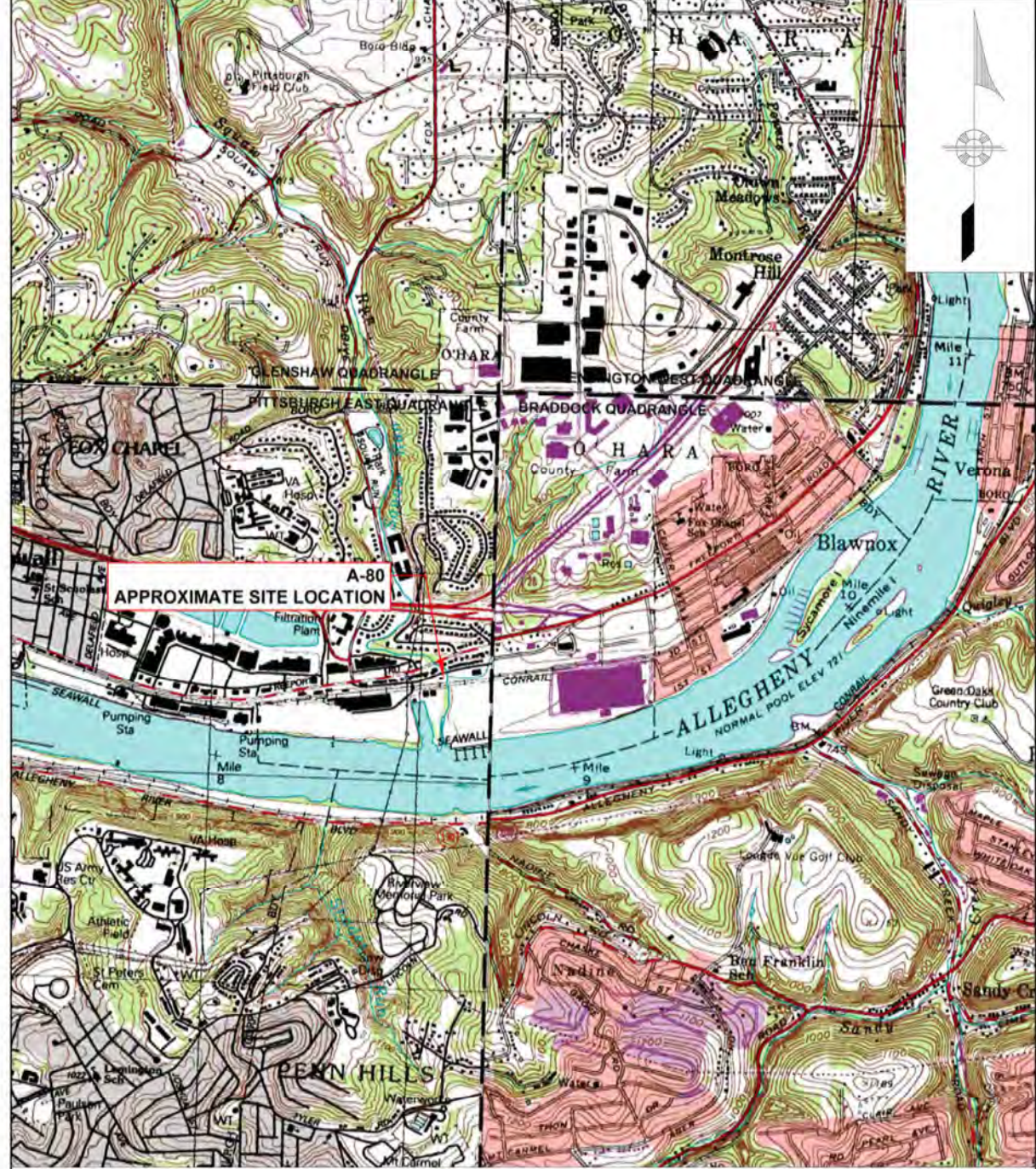
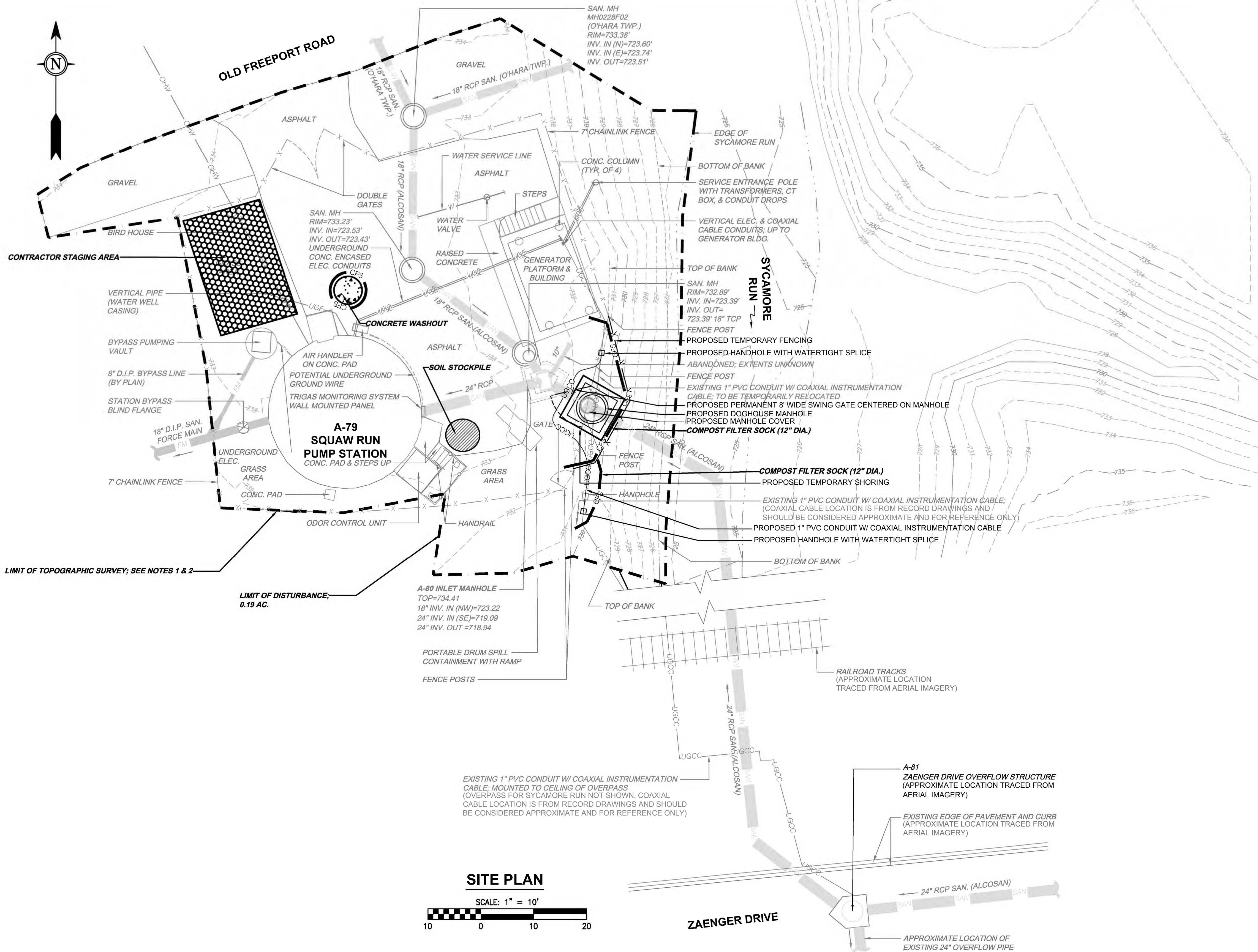
ALLEGHENY COUNTY SANITARY AUTHORITY REGIONAL CONVEYANCE SYSTEM MISCELLANEOUS FLAP GATE, SLUICE GATE, AND VALVE REPLACEMENTS AT VARIOUS LOCATIONS		Contract: 1818
M-34 FLAP GATE/TIDEFLEX REPLACEMENT EROSION AND SEDIMENT CONTROL DETAILS		CAD File Name: 1818-M-34-ES-03.DWG
		Date: 06/11/2025
		Sheet: 41 of 68



*If more than one species is used, indicate application rate for each species.
**Steep slopes only

The native grass and forb species tolerate poor soils typically found on steep slopes in the eastern United States. Mix formulations are subject to change without notice depending on the availability of existing and new products. While the formula may change, the guiding philosophy and function of the mix will not.

GAI CAD FILE PATH: S:\CLIENTS AND PROJECTS\33 - GAI\22-033-134 GAI - ALCOSAN REGIONAL CONVEYANCE VALVE REPLACEMENT\1C - CADD\ESPC PLAN - M-34\1818-M-34-ES-04.DWG



USGS SITE LOCATION MAP
(PITTSBURGH EAST QUADRANGLE)
SCALE: 1" = 2,000'

LEGEND

- CONCRETE WASHOUT
- SOIL STOCKPILE
- CONTRACTOR STAGING AREA
- 800 EXISTING MAJOR CONTOUR
- 801 EXISTING MINOR CONTOUR
- LIMIT OF DISTURBANCE AND PROJECT SURVEY SEE NOTES 1 & 2
- CFS COMPOST FILTER SOCK

NOTES:

- TOPOGRAPHIC INFORMATION SHOWN WITHIN LIMITS OF PROJECT SURVEY IS BASED ON FIELD SURVEY PERFORMED BY MONALOH BASIN ENGINEERS, COMPLETED IN APRIL AND JULY OF 2025.
- TOPOGRAPHIC INFORMATION SHOWN OUTSIDE OF PROJECT SURVEY LIMITS WAS PRODUCED FROM PENNSYLVANIA SPATIAL DATA ACCESS (PASDA) GIS DATA. GIS DATA WAS DOWNLOADED IN AUGUST 2025. PASDA TOPOGRAPHIC INFORMATION IS SHOWN FOR GENERAL SPATIAL REFERENCE ONLY. PROJECT SURVEY INFORMATION SHALL SUPERSEDE PASDA TOPOGRAPHIC INFORMATION.
- CONCRETE WASHOUT FACILITIES SHOULD NOT BE PLACED WITHIN 50 FEET OF STORM DRAINS, OPEN DITCHES, OR SURFACE WATERS
- SITE SOIL UB: - URBAN LAND
- EROSION CONTROL BLANKET SHALL BE USED FOR DISTURBANCES WITHIN 50 FEET OF SYCAMORE RUN. EROSION CONTROL BLANKETS SHALL BE NORTH AMERICAN GREEN S150 (OR APPROVED EQUAL) DOUBLE NET SUITABLE FOR USE ON 2:1 SLOPES OR S75 (OR APPROVED EQUAL) SINGLE NET BLANKET SUITABLE FOR USE ON 3:1 SLOPES.
- FEMA NATIONAL FLOOD HAZARD LAYER GIS DATA WAS OVERLAID OVER THE PROJECT AREA, LIMITS OF THE 100-YEAR FLOODPLAIN ENCOMPASS THE SITE BUT ARE NOT SHOWN IN THE VIEWPORT. NO FEMA DEFINED BOUNDARY OF THE 100-YEAR FREQUENCY FLOODWAY IS AVAILABLE; THEREFORE, IT IS ASSUMED, ABSENT EVIDENCE TO THE CONTRARY, THAT THE FLOODWAY EXTENDS FROM THE STREAM TO 50 FEET FROM THE TOP OF THE BANK OF THE STREAM.

Designed by: B. STANISZEWSKI	REVISION				 Collective Efforts, LLC Civil and Environmental Engineers 1000 West View Park Drive, Suite 7 Pittsburgh, PA 15229 412.459.0114 www.collectiveefforts.com			 ALLEGHENY COUNTY SANITARY AUTHORITY www.alcosan.org	ARLETTA SCOTT WILLIAMS EXECUTIVE DIRECTOR, ALCOSAN 3300 PREBLE AVE. PITTSBURGH, PA 15233 (412) 766 - 4810	ALLEGHENY COUNTY SANITARY AUTHORITY REGIONAL CONVEYANCE SYSTEM MISCELLANEOUS FLAP GATE, SLUICE GATE, AND VALVE REPLACEMENTS AT VARIOUS LOCATIONS A-80 SLUICE GATE REPLACEMENT EROSION AND SEDIMENT CONTROL PLAN	Contract: 1818
Drawn by: B. STANISZEWSKI	REV No.	DATE	DESCRIPTION	APPV							CAD File Name: 1818-A-80-ES-01.DWG
Checked by: C. CASADEI											Date: 06/11/2025
											Sheet: 43 of 68

GENERAL NOTES:

1. ALL EARTH DISTURBANCES, INCLUDING CLEARING AND GRUBBING AS WELL AS CUTS AND FILLS SHALL BE DONE IN ACCORDANCE WITH THE APPROVED E&S PLAN. A COPY OF THE APPROVED DRAWINGS MUST BE AVAILABLE AT THE PROJECT SITE AT ALL TIMES.

2. AT LEAST 3 DAYS PRIOR TO STARTING ANY EARTH DISTURBANCE ACTIVITIES, OR EXPANDING INTO AN AREA PREVIOUSLY UNMARKED, THE PENNSYLVANIA ONE CALL SYSTEM INC. SHALL BE NOTIFIED AT 1-800-242-1776 FOR THE LOCATION OF EXISTING UNDERGROUND UTILITIES.

3. ALL EARTH DISTURBANCE ACTIVITIES SHALL PROCEED IN ACCORDANCE WITH THE SEQUENCE PROVIDED ON THE PLAN DRAWINGS. DEVIATION FROM THAT SEQUENCE MUST BE APPROVED IN WRITING FROM THE ENGINEER PRIOR TO IMPLEMENTATION.

4. ASPHALT STRIPPING AND CONCRETE STRIPPING SHALL BE LIMITED TO THOSE AREAS DESCRIBED IN EACH STAGE OF THE CONSTRUCTION SEQUENCE. GENERAL SITE STRIPPING OF ASPHALT, AND STRIPPING OF CONCRETE MAY NOT COMMENCE IN ANY STAGE OR PHASE OF THE PROJECT UNTIL THE E&S BMPS SPECIFIED BY THE BMP SEQUENCE FOR THAT STAGE OR PHASE HAVE BEEN INSTALLED AND ARE FUNCTIONING AS DESCRIBED IN THIS E&S PLAN.

5. AT NO TIME SHALL CONSTRUCTION VEHICLES BE ALLOWED TO ENTER AREAS OUTSIDE THE LIMIT OF DISTURBANCE BOUNDARIES SHOWN ON THE PLAN MAPS. THESE AREAS MUST BE CLEARLY MARKED AND FENCED OFF BEFORE CLEARING AND GRUBBING OPERATIONS BEGIN.

6. IMMEDIATELY UPON DISCOVERING UNFORESEEN CIRCUMSTANCES POSING THE POTENTIAL FOR ACCELERATED EROSION AND/OR SEDIMENT POLLUTION, THE OPERATOR SHALL IMPLEMENT APPROPRIATE BEST MANAGEMENT PRACTICES TO MINIMIZE THE POTENTIAL FOR EROSION AND SEDIMENT POLLUTION AND NOTIFY THE REGIONAL OFFICE OF THE DEPARTMENT.

7. ALL BUILDING MATERIALS AND WASTES SHALL BE REMOVED FROM THE SITE AND RECYCLED OR DISPOSED OF IN ACCORDANCE WITH THE DEPARTMENT'S SOLID WASTE MANAGEMENT REGULATIONS AT 25 PA. CODE 260.1 ET SEQ., 271.1, AND 287.1 ET. SEQ. NO BUILDING MATERIALS OR WASTES OR UNUSED BUILDING MATERIALS SHALL BE BURNED, BURIED, DUMPED, OR DISCHARGED AT THE SITE.

8. ALL OFF-SITE WASTE AND BORROW AREAS MUST HAVE AN E&S PLAN APPROVED BY THE DEPARTMENT FULLY IMPLEMENTED PRIOR TO BEING ACTIVATED.

9. THE CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT ANY MATERIAL BROUGHT ON SITE IS CLEAN FILL. FORM FP-001 MUST BE RETAINED BY THE PROPERTY OWNER FOR ANY FILL MATERIAL AFFECTED BY A SPILL OR RELEASE OF A REGULATED SUBSTANCE BUT QUALIFYING AS CLEAN FILL DUE TO ANALYTICAL TESTING.

10. UNTIL THE SITE IS STABILIZED, ALL EROSION AND SEDIMENT BMPS SHALL BE MAINTAINED PROPERLY. MAINTENANCE SHALL INCLUDE INSPECTIONS OF ALL EROSION AND SEDIMENT BMPS AFTER EACH RUNOFF EVENT AND ON A WEEKLY BASIS. ALL PREVENTIVE AND REMEDIAL MAINTENANCE WORK, INCLUDING CLEAN OUT, REPAIR, REPLACEMENT, REGRADING, RESEEDING, REMULCHING AND RENETTING MUST BE PERFORMED IMMEDIATELY. IF THE E&S BMPS FAIL TO PERFORM AS EXPECTED, REPLACEMENT BMPS, OR MODIFICATIONS OF THOSE INSTALLED WILL BE REQUIRED.

11. IT IS RECOMMENDED THAT A LOG SHOWING DATES THAT E&S BMPS WERE INSPECTED AS WELL AS ANY DEFICIENCIES FOUND AND THE DATE THEY WERE CORRECTED BE MAINTAINED ON THE SITE.

12. SEDIMENT TRACKED ONTO ANY PUBLIC ROADWAY OR SIDEWALK SHALL BE RETURNED TO THE CONSTRUCTION SITE BY THE END OF EACH WORK DAY AND DISPOSED IN THE MANNER DESCRIBED IN THIS PLAN. IN NO CASE SHALL THE SEDIMENT BE WASHED, SHOVELED, OR SWEEP INTO ANY ROADSIDE DITCH, STORM SEWER, OR SURFACE WATER.

13. ALL SEDIMENT REMOVED FROM BMPS SHALL BE DISPOSED OF IN THE MANNER DESCRIBED ON THE PLAN DRAWINGS.

14. ALL FILLS SHALL BE COMPACTED AS REQUIRED TO REDUCE EROSION, SLIPPAGE, SETTLEMENT, SUBSIDENCE OR OTHER RELATED PROBLEMS. FILL INTENDED TO SUPPORT BUILDINGS, STRUCTURES AND CONDUITS, ETC. SHALL BE COMPACTED IN ACCORDANCE WITH LOCAL REQUIREMENTS OR CODES.

15. ALL EARTHEN FILLS SHALL BE PLACED IN COMPACTED LAYERS NOT TO EXCEED 9 INCHES IN THICKNESS.

16. FILL MATERIALS SHALL BE FREE OF FROZEN PARTICLES, BRUSH, ROOTS, SOD, OR OTHER FOREIGN OR OBJECTIONABLE MATERIALS THAT WOULD INTERFERE WITH OR PREVENT CONSTRUCTION OF SATISFACTORY FILLS.

17. FROZEN MATERIALS OR SOFT, MUCKY, OR HIGHLY COMPRESSIBLE MATERIALS SHALL NOT BE INCORPORATED INTO FILLS.

18. FILL SHALL NOT BE PLACED ON SATURATED OR FROZEN SURFACES.

19. PERMANENT STABILIZATION IS DEFINED AS A MINIMUM UNIFORM, PERENNIAL 70% VEGETATIVE COVER OR OTHER PERMANENT NON-VEGETATIVE COVER WITH A DENSITY SUFFICIENT TO RESIST ACCELERATED EROSION. CUT AND FILL SLOPES SHALL BE CAPABLE OF RESISTING FAILURE DUE TO SLUMPING, SLIDING, OR OTHER MOVEMENTS.

20. E&S BMPS SHALL REMAIN FUNCTIONAL AS SUCH UNTIL ALL AREAS TRIBUTARY TO THEM ARE PERMANENTLY STABILIZED OR UNTIL THEY ARE REPLACED BY ANOTHER BMP APPROVED BY THE ENGINEER.

21. AFTER FINAL SITE STABILIZATION HAS BEEN ACHIEVED, TEMPORARY EROSION AND SEDIMENT BMPS MUST BE REMOVED. AREAS DISTURBED DURING REMOVAL OR CONVERSION OF THE BMPS SHALL BE STABILIZED IMMEDIATELY.

22. FAILURE TO CORRECTLY INSTALL E&S BMPS, FAILURE TO PREVENT SEDIMENT-LOADED RUNOFF FROM LEAVING THE CONSTRUCTION SITE, OR FAILURE TO TAKE IMMEDIATE CORRECTIVE ACTION TO RESOLVE FAILURE OF E&S BMPS MAY RESULT IN ADMINISTRATIVE, CIVIL, AND/OR CRIMINAL PENALTIES BEING INSTITUTED BY THE DEPARTMENT AS DEFINED IN SECTION 602 OF THE PENNSYLVANIA CLEAN STREAMS LAW. THE CLEAN STREAMS LAW PROVIDES FOR UP TO \$10,000 PER DAY IN CIVIL PENALTIES, UP TO \$10,000 IN SUMMARY CRIMINAL PENALTIES, AND UP TO \$25,000 IN MISDEMEANOR CRIMINAL PENALTIES FOR EACH VIOLATION.

RECYCLING AND DISPOSAL PROCEDURES OF CONSTRUCTION WASTES

1. ALL OFF-SITE WASTE AND BORROW AREAS MUST HAVE AN E&S CONTROL PLAN APPROVED BY THE PADEP FULLY IMPLEMENTED PRIOR TO BEING ACTIVATED.

2. GARBAGE IS TO BE REMOVED FROM THE SITE DAILY BY THE CONTRACTOR.

3. THE CONTRACTOR WILL DISPOSE OF ALL OTHER SCRAP MATERIAL. THE SCRAP MATERIAL MUST BE REMOVED FROM THE SITE DAILY AND DISPOSED OF OR RECYCLED AT A PROPERLY LICENSED/PERMITTED FACILITY. THE CONTRACTOR WILL BE RESPONSIBLE FOR ANY PERMITS AND/OR DISPOSAL FEES. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE TO ASSURE THAT ALL MATERIALS ARE HANDLED AND DISPOSED OF IN ACCORDANCE WITH APPLICABLE LAWS, RULES, AND REGULATIONS, INCLUDING, BUT NOT LIMITED TO THOSE ISSUED BY THE ENVIRONMENTAL PROTECTION AGENCY, PADEP, AND THE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION.

4. ALL WASTE OR EXCESS MATERIALS NOT SUITABLE FOR THE ON-SITE STOCKPILE OR BACKFILL SHALL BE DISPOSED OF IN ACCORDANCE WITH THE DEPARTMENT'S SOLID WASTE MANAGEMENT REGULATIONS AT 25 PA CODE CHAPTER 260 §260.1 ET SEQ. 271.1 AND 287.1 ET. SEQ. AT THE PADEP-APPROVED WASTE SITE WHERE FEASIBLE CONSTRUCTION WASTE MATERIALS WILL BE RECYCLED OR WILL BE TAKEN TO THE NEAREST PADEP APPROVED FACILITY FOR DISPOSAL. EXCESS SOIL MATERIAL IF ANY WILL BE SPREAD AND REVEGETATED WITHIN THE ROW. OFF-SITE SPOIL AND/OR BORROW SITES MUST BE OPERATED UNDER A CURRENT NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM PERMIT.

PERSONS RESPONSIBLE FOR CONSTRUCTION AND OFF SITE DISPOSAL REQUIREMENTS

1. IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE SATISFACTORY SOIL E&SC AND TO INTERFACE WITH APPLICABLE REGULATORY AGENCIES.

2. THE CONTRACTOR IS RESPONSIBLE FOR HAVING AN APPROVED E&SC PLAN AND FOR CONFIRMING THAT AN ACTIVE E&SC PERMIT EXISTS FOR ANY OFF-SITE BORROW AREA LOCATIONS. IF OFF-SITE DISPOSAL IS REQUIRED, DISPOSAL MUST OCCUR AT A SITE APPROVED BY THE PADEP. PROOF OF THESE PERMISSIONS MUST BE PROVIDED TO THE OWNER AND APPLICABLE REGULATORY AGENCIES PRIOR TO USE. ALL FILL MATERIAL MUST BE USED IN ACCORDANCE WITH THE PADEP'S POLICY "MANAGEMENT OF FILL" DOCUMENT NUMBER 258-2182-773. ENVIRONMENTAL DUE DILIGENCE IS DEFINED AS: INVESTIGATIVE TECHNIQUES, INCLUDING, BUT NOT LIMITED TO, VISUAL PROPERTY INSPECTIONS, ELECTRONIC DATA BASE SEARCHES, REVIEW OF PROPERTY OWNERSHIP, REVIEW OF PROPERTY USE HISTORY, SANBORN MAPS, ENVIRONMENTAL QUESTIONNAIRES, TRANSACTION SCREENS, ANALYTICAL TESTING, ENVIRONMENTAL ASSESSMENTS OR AUDITS.

3. IN THE EVENT THE CONTRACTOR WISHES TO MODIFY THE E&SC PLAN, A COPY OF THE REVISED E&SCP MUST BE SUBMITTED TO THE ENGINEER AND ALCOSAN FOR APPROVAL.

MAINTENANCE PROGRAM

1. AFTER CONSTRUCTION IS COMPLETED AND SITE HAS REACHED PERMANENT STABILIZATION, ALL TEMPORARY BMPS WILL BE REMOVED AND ANY LAND DISTURBED BY REMOVAL WILL BE PERMANENTLY STABILIZED, UNLESS OTHERWISE SPECIFIED. ALL MAINTENANCE MUST BE COMPLETED IMMEDIATELY AFTER AN INSPECTION IDENTIFIES THAT A BMP IS NOT FUNCTIONING.

2. IF CONCENTRATED FLOW AREAS FORM DUE TO ANY STORM EVENT AND ANY AREA BECOMES UNSTABLE, THE AREA SHALL BE STABILIZED BY INSTALLING ADDITIONAL BMPS IN THE CONCENTRATED FLOW AREAS. ANY REQUIRED REPAIRS OR MAINTENANCE SHALL BE MADE IMMEDIATELY.

3. THE CONTRACTOR SHALL ASSESS THE WORKING CONDITION OF THE E&S MEASURES AT LEAST WEEKLY AND AFTER EACH MEASURABLE RUNOFF EVENT (GREATER THAN ONE-QUARTER INCH IN 24 HOURS OR ANY SIGNIFICANT THAW EVENT). DAMAGED, BLOCKED, OR OTHERWISE COMPROMISED MEASURES OBSERVED DURING THE INSPECTION SHALL BE REPAIRED IMMEDIATELY.

4. SEDIMENT BARRIERS SHALL BE INSPECTED WEEKLY AND AFTER EACH MEASURABLE RUNOFF EVENT. BARRIERS SHALL BE INSPECTED TO ENSURE THEY HAVE NOT BEEN DISLODGED OR BROKEN. SEDIMENT SHALL BE REMOVED WHEN ACCUMULATIONS REACH (1/2) ONE-HALF THE ABOVEGROUND HEIGHT OF THE BARRIER. DAMAGED BARRIER SHALL BE REPAIRED IN ACCORDANCE WITH THE MANUFACTURERS, RECOMMENDATIONS, OR REPLACED WITHIN TWENTY-FOUR (24) HOURS OF INSPECTION. EROSION AND UNDERCUTTING OF SEDIMENT BARRIER SHALL BE PROMPTLY REPAIRED.

5. IF USED DURING CONSTRUCTION, BIODEGRADABLE FILTER SOCK SHALL BE REPLACED AFTER SIX (6) MONTHS; PHOTODEGRADABLE SOCKS AFTER ONE (1) YEAR; POLYPROPYLENE SOCKS SHALL BE REPLACED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. STAKES SHALL BE REMOVED FROM SOCKS AND SOCKS SHALL BE REMOVED FROM THE SITE UPON STABILIZATION OF THE AREAS TRIBUTARY TO A SOCK.

6. IT IS RECOMMENDED THAT A LOG SHOWING DATES THAT E&S BMPS WERE INSPECTED AS WELL AS ALL DEFICIENCIES FOUND AND THE DATE THEY WERE CORRECTED BE MAINTAINED ON THE SITE.

7. ALL BMPS SHALL BE INSPECTED, MAINTAINED, AND REPAIRED AS NEEDED TO ASSURE CONTINUED PERFORMANCE OF THEIR INTENDED FUNCTION. WHENEVER INSPECTION AND/OR MONITORING REVEALS THAT THE BMPS IDENTIFIED IN THE E&S PLAN ARE INADEQUATE, THE E&S PLAN SHALL BE MODIFIED, AS APPROPRIATE, IN A TIMELY MANNER. DAMAGED BMPS WILL BE REPAIRED OR REPLACED AS SOON AS PRACTICABLE, BUT NO MORE THAN SEVENTY-TWO (72) HOURS AFTER DISCOVERING THE DAMAGE. ANY SPILLAGE OR DISCHARGE OF POLLUTANTS SHALL BE REPORTED WITHIN TWENTY-FOUR (24) HOURS.

8. MAINTENANCE AND REPAIR OF HEAVY EQUIPMENT AND VEHICLES INVOLVING OIL CHANGES, HYDRAULIC SYSTEM DRAIN DOWN, SOLVENT AND DE-GREASING CLEANING OPERATIONS, FUEL TANK DRAIN DOWN AND REMOVAL, AND OTHER ACTIVITIES WHICH MAY RESULT IN DISCHARGE OR SPILLAGE OF POLLUTANTS TO THE GROUND OR INTO SURFACE WATER RUNOFF MUST BE CONDUCTED USING SPILL PREVENTION MEASURES, SUCH AS DRIP PANS. CONTAMINATED SURFACES SHALL BE CLEANED IMMEDIATELY FOLLOWING ANY DISCHARGE OR SPILL INCIDENT. CONTAMINATED SOIL MUST BE DISPOSED OF PROPERLY. EMERGENCY REPAIRS MAY BE PERFORMED ON-SITE USING TEMPORARY PLASTIC PLACED BENEATH AND, IF RAINING, OVER THE VEHICLE.

9. THE E&S PLAN SHALL BE RETAINED ON-SITE. THE E&S PLAN SHALL BE MODIFIED WHENEVER THERE IS A SIGNIFICANT CHANGE IN THE DESIGN, CONSTRUCTION, OPERATION, OR MAINTENANCE OF ANY BMP.

10. AFTER FINAL SITE STABILIZATION HAS BEEN ACHIEVED OR AFTER TEMPORARY BMPS ARE NO LONGER NEEDED, TEMPORARY EROSION AND SEDIMENTATION CONTROLS MUST BE REMOVED WITHIN THIRTY (30) DAYS. ACCUMULATED SEDIMENT SHALL BE REMOVED OR STABILIZED ON SITE. AREAS DISTURBED DURING REMOVAL OF THE CONTROLS MUST BE STABILIZED IMMEDIATELY.

11. INSPECT DISCHARGE LOCATIONS TO ASCERTAIN EFFECTIVENESS OF CONTROLS. IMPLEMENT ADDITIONAL CONTROL MEASURES AS NEEDED.

12. UPON FINAL COMPLETION OF AN EARTH DISTURBANCE ACTIVITY OR ANY STAGE OR PHASE OF AN ACTIVITY, THE SITE SHALL IMMEDIATELY BE PERMANENTLY STABILIZED AND PROTECTED FROM ACCELERATED EROSION AND SEDIMENTATION.

EROSION AND SEDIMENT CONTROL RECOMMENDED SEQUENCE OF CONSTRUCTION:

1. CONTACT PENNSYLVANIA ONE-CALL SYSTEM AT 1-800-242-1776 PRIOR TO ANY DIGGING, DRILLING, BLASTING, OR EXCAVATION.

2. CLEARLY DELINEATE THE LIMITS OF DISTURBANCE AND MARK PERTINENT SITE FEATURES (I.E. BMP LOCATIONS, ETC.).

3. INSTALL FILTER SOCKS IN THE LOCATIONS IDENTIFIED ON THE PLAN DRAWINGS.

4. INSTALL CONCRETE WASHOUT PRIOR TO ANY WORK ON SITE.

5. BEGIN DOGHOUSE MANHOLE INSTALLATION ACTIVITIES.

6. BEGIN REPAIR AND IMPROVEMENT ACTIVITIES.

7. REMOVE EXCAVATED MATERIAL IMMEDIATELY FROM SITE.

8. EARTH DISTURBANCE ACTIVITIES LEFT INACTIVE FOR FOUR OR MORE DAYS, SHOULD BE TEMPORARILY STABILIZED.

9. RESTORE AREA BY PERMANENTLY STABILIZING WITH PAVEMENT, OR VEGETATION AS SHOWN ON PLANS, AS NECESSARY.

10. REMOVE ALL TEMPORARY BMPS ONCE AREA HAS BEEN RESTORED AND PERMANENTLY STABILIZED.

INSPECTION AND MAINTENANCE TABLE

EROSION AND SEDIMENT CONTROL MEASURE	INSPECTION SCHEDULE	MAINTENANCE REQUIREMENTS
COMPOST FILTER SOCK	INSPECT WEEKLY AND AFTER EACH RUNOFF EVENT OF 0.25 INCHES OR GREATER. INITIATE REPAIRS WITHIN 24 HOURS AFTER INSPECTION.	SEDIMENT MUST BE REMOVED WHEN ACCUMULATED TO 1/2 ABOVE GROUND HEIGHT OF SOCK.
COMPOST FILTER SOCK CONCRETE WASHOUT	INSPECT DAILY. DAMAGED OR LEAKING WASHOUTS SHOULD BE DEACTIVATED AND REPAIRED IMMEDIATELY.	CARE SHALL BE TAKEN TO ENSURE CONTINUOUS CONTACT OF THE SOCK WITH THE PLASTIC SHEETING. WHERE NECESSARY, SOCKS MAY BE STACKED SO AS TO FORM A TRIANGULAR CROSS SECTION. ACCUMULATED MATERIALS SHALL BE REMOVED WHEN THEY REACH 1/2 HEIGHT OF COMPOST SOCK WASHOUT HEIGHT. PLASTIC SHEETING SHALL BE REPLACED WITH EACH CLEANING OF THE WASHOUT FACILITY.
TEMPORARY AND PERMANENT SEEDING	INSPECT WEEKLY AND AFTER EACH RUNOFF EVENT UNTIL PERENNIAL VEGETATION IS ESTABLISHED TO A MINIMUM UNIFORM 70% COVERAGE.	VEGETATED AREAS SHALL BE CONSIDERED PERMANENTLY STABILIZED WHEN A UNIFORM 70% PERENNIAL VEGETATIVE COVER HAS BEEN ACHIEVED. UNTIL SUCH COVERAGE HAS BEEN ACHIEVED, THE CONTRACTOR SHALL PROVIDE AND MAINTAIN PERIM STABILIZATION MEASURES THAT ARE USED TO TREAT PROJECT RUNOFF. THE CONTRACTOR SHALL RESEED AS NECESSARY TO MEET FINAL COVERAGE.
EROSION CONTROL BLANKET	INSPECT WEEKLY AND AFTER EACH RUNOFF EVENT UNTIL PERENNIAL VEGETATION IS ESTABLISHED TO A MINIMUM UNIFORM 70% COVERAGE THROUGHOUT THE BLANKETED AREA.	DAMAGED OR DISPLACED BLANKETS SHALL BE RESTORED OR REPLACED WITHIN 4 CALENDAR DAYS.
TEMPORARY SOIL STOCKPILE	INSPECT WEEKLY AND AFTER EACH RUNOFF EVENT OF 0.25 INCHES OR GREATER. INITIATE REPAIRS WITHIN 24 HOURS AFTER INSPECTION.	MAXIMUM STOCKPILE HEIGHT IS 35 FEET. MAXIMUM SIDE SLOPES OF STOCKPILE ARE 2:1(H:V). SOIL STOCKPILE SHALL BE SURROUNDED WITH COMPOST FILTER SOCKS. INITIATE REPAIRS WITHIN 24 HOURS AFTER INSPECTION.

NOTE: IT IS SUGGESTED THAT A "VISUAL SITE INSPECTION REPORT" (DEP FORM 3800-FM-BCW0271d, AS LAST REVISED) BE COMPLETED DURING EACH INSPECTION (DAILY/WEEKLY AND FOLLOWING RUNOFF EVENTS) AND SHALL BE KEPT ON SITE AT ALL TIMES.

SOILS ON-SITE

UB - URBAN LAND

SOIL LIMITATIONS

URBAN LAND SOIL IS SO ALTERED BY EARTH MOVING AND DISTURBANCES THAT THE ORIGINAL SOILS CANNOT BE IDENTIFIED; THEREFORE, SOIL LIMITATIONS ARE NOT ASSIGNED TO THIS SOIL CLASSIFICATION.

Designed by:

B. STANISZEWSKI

Drawn by:

B. STANISZEWSKI

Checked by:

C. CASADEI

REVISION

REV No.	DATE	DESCRIPTION	APPV
1	9/2/2025	ISSUED FOR BID	

Collective Efforts, LLC

Civil and Environmental Engineers
1000 West View Park Drive, Suite 7
Pittsburgh, PA 15229
412.459.0114
www.collectiveefforts.com

gai consultants

COREEN M. CASADEI

ENGINEER
NO. 044962

alcosan

allegheny county sanitary authority

ARLETTA SCOTT WILLIAMS
EXECUTIVE DIRECTOR, ALCOSAN

3300 PREBLE AVE.
PITTSBURGH, PA 15233
(412) 766 - 4810

www.alcosan.org

Contract:

1818

CAD File Name:

1818-A-80-ES-02.DWG

Date:

06/11/2025

Sheet:

44 of 68

ALLEGHENY COUNTY SANITARY AUTHORITY
REGIONAL CONVEYANCE SYSTEM
MISCELLANEOUS FLAP GATE, SLUICE GATE, AND
VALVE REPLACEMENTS AT VARIOUS LOCATIONS

A-80
SLUICE GATE REPLACEMENT
EROSION AND SEDIMENT CONTROL DETAILS

GAI CAD FILE PATH: S:\CLIENTS AND PROJECTS\33 - GAR22-033-134 GAI - ALCOSAN REGIONAL CONVEYANCE VALVE REPLACEMENT\1 - CADDIESCP PLAN - A801818-A-80-ES-02.DWG

Material Type	3 mil HDPE	5 mil HDPE	5 mil HDPE	Multi-Filament Polypropylene (MFPP)	Heavy Duty Multi-Filament Polypropylene (HDMFPP)
Material Characteristics	Photo-degradable	Photo-degradable	Bio-degradable	Photo-degradable	Photo-degradable
Sock Diameters	12" 18"	12" 18" 24" 32"	12" 18" 24" 32"	12" 18" 24" 32"	12" 18" 24" 32"
Mesh Opening	3/8"	3/8"	3/8"	3/8"	1/8"
Tensile Strength		26 psi	26 psi	44 psi	202 psi
Ultraviolet Stability % Original Strength (ASTM G-155)	23% at 1000 hr.	23% at 1000 hr.		100% at 1000 hr.	100% at 1000 hr.
Minimum Functional Longevity	6 months	9 months	6 months	1 year	2 years

Two-ply systems	
Inner Containment Netting	HDPE biaxial net
	Continuously wound
	Fusion-welded junctures
	3/4" X 3/4" Max. aperture size
Outer Filtration Mesh	Composite Polypropylene Fabric (Woven layer and non-woven fleece mechanically fused via needle punch)
	3/16" Max. aperture size
	Sock fabrics composed of burlap may be used on projects lasting 6 months or less.
Filtrexx & JMD	

Organic Matter Content	80% - 100% (dry weight basis)
Organic Portion	Fibrous and elongated
pH	5.5 - 8.0
Moisture Content	35% - 55%
Particle Size	98% pass through 1" screen
Soluble Salt Concentration	5.0 dS/m (mmhos/cm) Maximum

STANDARD E&S WORKSHEET #1

Compost Filter Socks

A cross-sectional diagram of a compost filter sock installation. A circular sock is shown partially buried in the ground. Two wooden stakes are driven into the ground on either side of the sock, with a dimension line indicating they are placed 10 feet on center. The area to the left of the sock is labeled 'BLOWN/PLACED FILTER MEDIA' and 'DISTURBED AREA'. The area to the right is labeled 'UNDISTURBED AREA'. A dimension line indicates a minimum 12-inch gap between the sock and the ground surface on the left side.

2" X 2" WOODEN STAKES PLACED 10' O.C.

COMPOST FILTER SOCK

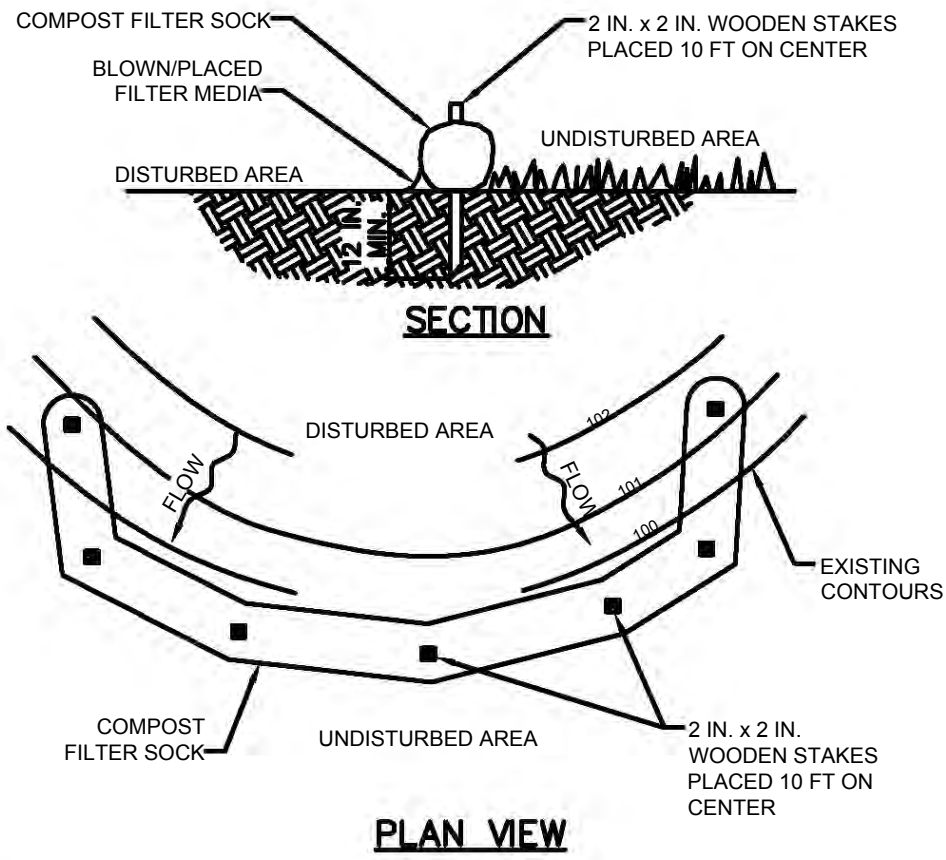
BLOWN/PLACED FILTER MEDIA

DISTURBED AREA

UNDISTURBED AREA

12" MIN

SOCK NO.	Dia. In.	LOCATION	SLOPE PERCENT	SLOPE LENGTH ABOVE BARRIER (FT)
CFS-01, A-80	12	East of Proposed Doghouse Manhole	14.8	27
CFS-02, A-80	12	South of Proposed Doghouse Manhole	7.7	39



SOCK FABRIC SHALL MEET STANDARDS OF TABLE 4.1 OF THE PA DEP EROSION CONTROL MANUAL.
COMPOST SHALL MEET THE STANDARDS OF TABLE 4.2 OF THE PA DEP EROSION CONTROL MANUAL.

COMPOST FILTER SOCK SHALL BE PLACED AT EXISTING LEVEL GRADE. BOTH ENDS OF THE BARRIER SHALL BE EXTENDED AT LEAST 8 FEET UP SLOPE AT 45 DEGREES TO THE MAIN BARRIER ALIGNMENT. MAXIMUM SLOPE LENGTH ABOVE ANY BARRIER SHALL NOT EXCEED THAT SPECIFIED FOR THE SIZE OF THE SOCK AND THE SLOPE OF ITS TRIBUTARY AREA.

TRAFFIC SHALL NOT BE PERMITTED TO CROSS COMPOST FILTER SOCKS

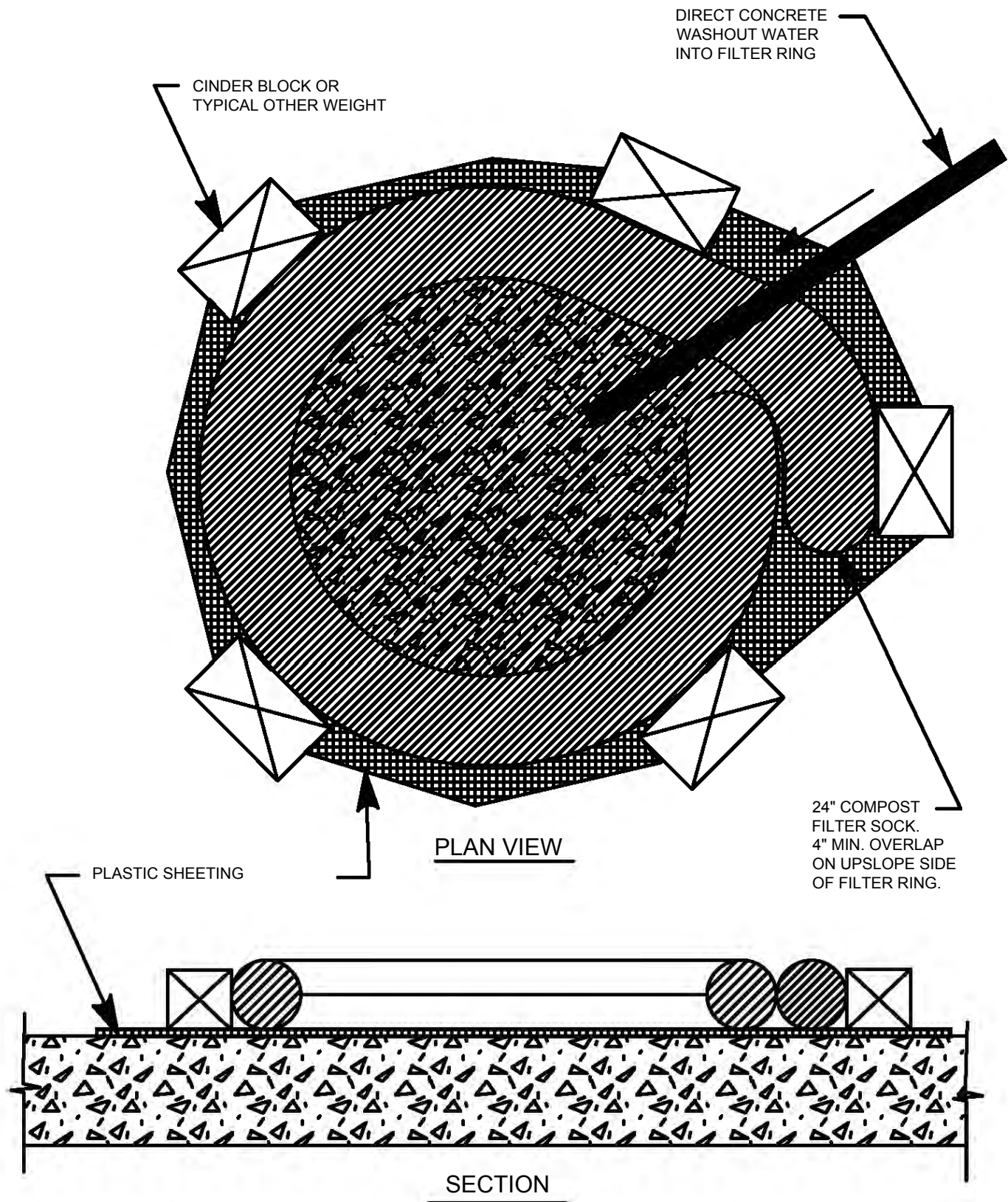
ACCUMULATED SEDIMENT SHALL BE REMOVED WHEN IT REACHES 1/2 THE ABOVE GROUND HEIGHT OF THE BARRIER AND DISPOSED IN THE MANNER DESCRIBED ELSEWHERE IN THE PLAN.

COMPOST FILTER SOCKS SHALL BE INSPECTED WEEKLY AND AFTER EACH RUNOFF EVENT. DAMAGED SOCKS SHALL BE REPAIRED ACCORDING TO MANUFACTURER'S SPECIFICATIONS OR REPLACED WITHIN 24 HOURS OF INSPECTION.

BIODEGRADABLE COMPOST FILTER SOCKS SHALL BE REPLACED AFTER 6 MONTHS; PHOTODEGRADABLE SOCKS AFTER 1 YEAR. POLYPROPYLENE SOCKS SHALL BE REPLACED ACCORDING TO MANUFACTURER'S RECOMMENDATIONS.

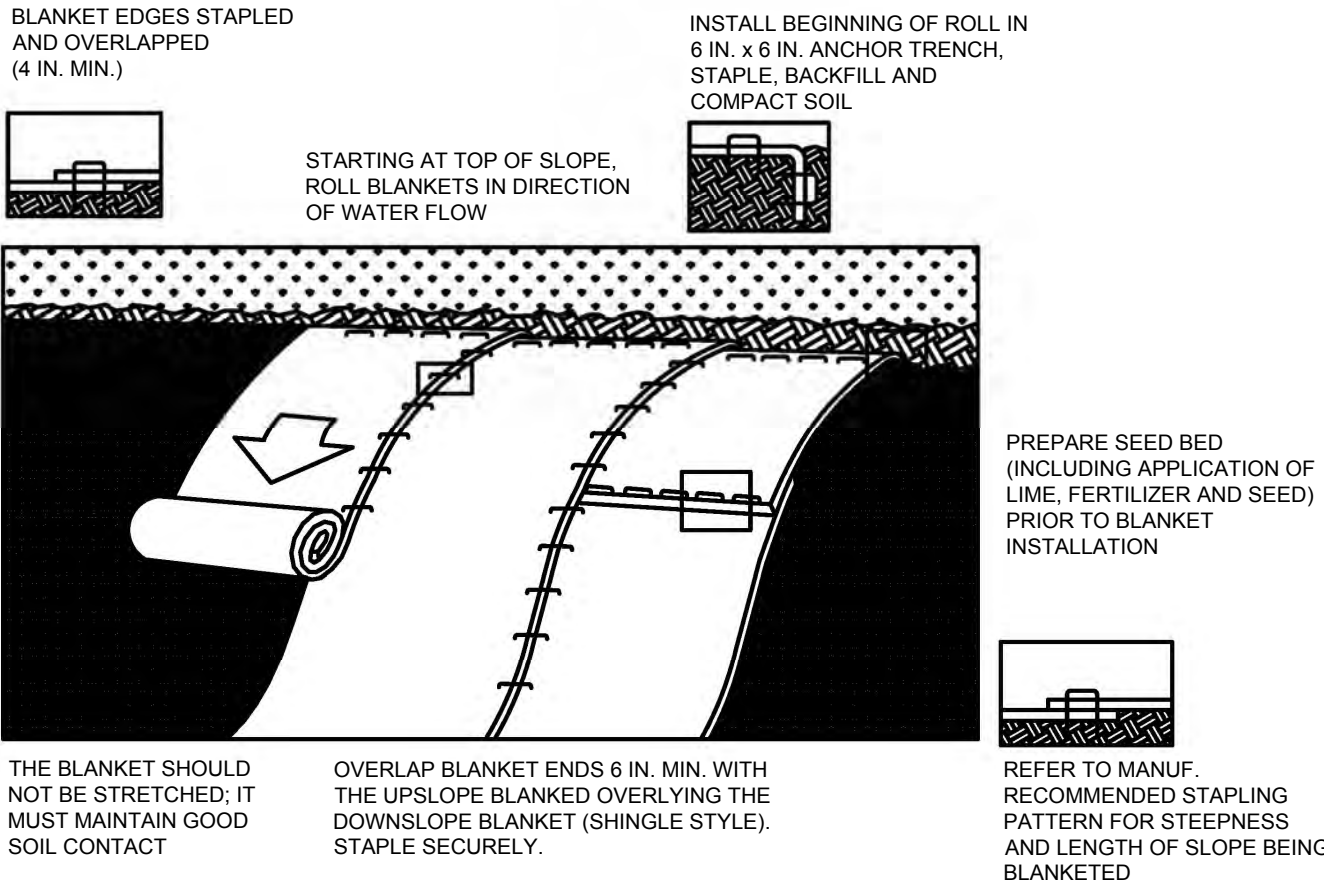
UPON STABILIZATION OF THE AREA TRIBUTARY TO THE SOCK, STAKES SHALL BE REMOVED. THE SOCK MAY BE LEFT IN PLACE AND VEGETATED OR REMOVED. IN THE LATTER CASE, THE MESH SHALL BE CUT OPEN AND THE MULCH SPREAD AS A SOIL SUPPLEMENT.

NOT TO SCALE



1. INSTALL ON FLAT GRADE FOR OPTIMUM PERFORMANCE.
2. 18" DIAMETER FILTER SOCK MAY BE STACKED ONTO DOUBLE 24" DIAMETER SOCKS IN PYRAMIDAL CONFIGURATION FOR ADDED HEIGHT.
3. A SUITABLE IMPERVIOUS 10 MIL PLASTIC SHEETING SHALL BE PLACED AT THE LOCATION OF THE WASHOUT PRIOR TO INSTALLING THE SOCKS.
4. COMPOST FILTER SOCKS SHALL BE HELD IN PLACE WITH CINDER BLOCKS OR OTHER WEIGHT.
5. TEMPORARY COMPOST SOCK WASHOUT AREA AND RESIDUAL CONCRETE SHALL BE REMOVED AND DISPOSED OFF-SITE.

NOT TO SCALE



NOTES:

SEED AND SOIL AMENDMENTS SHALL BE APPLIED ACCORDING TO THE RATES IN THE PLAN DRAWINGS PRIOR TO INSTALLING THE BLANKET.

PROVIDE ANCHOR TRENCH AT TOE OF SLOPE IN SIMILAR FASHION AS AT TOP OF SLOPE.

SLOPE SURFACE SHALL BE FREE OF ROCKS, CLODS, STICKS, AND GRASS.

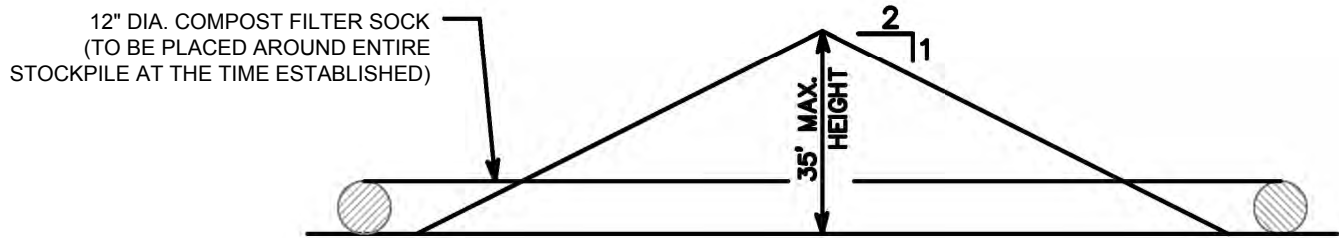
BLANKET SHALL HAVE GOOD CONTINUOUS CONTACT WITH UNDERLYING SOIL THROUGHOUT ENTIRE LENGTH. LAY BLANKET LOOSELY AND STAKE OR STAPLE TO MAINTAIN DIRECT CONTACT WITH SOIL. DO NOT STRETCH BLANKET.

THE BLANKET SHALL BE STAPLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.

BLANKETED AREAS SHALL BE INSPECTED WEEKLY AND AFTER EACH RUNOFF EVENT UNTIL PERENNIAL VEGETATION IS ESTABLISHED TO A MINIMUM UNIFORM 70% COVERAGE THROUGHOUT THE BLANKETED AREA. DAMAGED OR DISPLACED BLANKETS SHALL BE RESTORED OR REPLACED WITHIN 4 CALENDAR DAYS.

EROSION CONTROL BLANKET

NOT TO SCALE

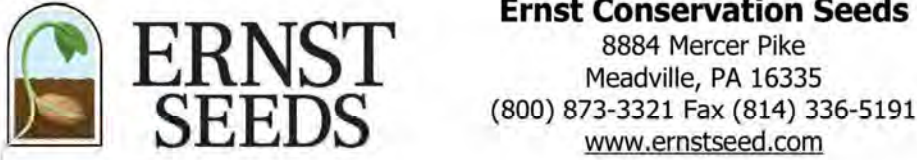


SOIL STOCKPILE NOTES:

- SOIL STOCKPILE SHALL BE SURROUNDED WITH COMPOST FILTER SOCKS.
- MAXIMUM STOCKPILE HEIGHT IS 35 FEET. MAXIMUM SIDE SLOPES OF STOCKPILE ARE 2:1 (H:V).
- TEMPORARY SEED STOCKPILE IF LEFT UNDISTURBED FOR MORE THAN 4 DAYS. INCIDENTAL TO MAINTAINED OF EROSION CONTROL FACILITIES.

TEMPORARY SOIL STOCKPILE

NOT TO SCALE



Date: March 26, 2025

Native Steep Slope Mix w/Annual Ryegrass - ERNMX-181

Botanical Name	Common Name	Price/Lb
29.00 % <i>Andropogon gerardii</i> , 'Prairie View'-IN Ecotype	Big Bluestem, 'Prairie View'-IN Ecotype	10.45
20.00 % <i>Lolium multiflorum</i>	Annual Ryegrass	1.30
15.50 % <i>Sorghastrum nutans</i> , PA Ecotype	Indiangrass, PA Ecotype	18.13
13.40 % <i>Elymus virginicus</i> , Madison-NY Ecotype	Virginia Wildrye, Madison-NY Ecotype	11.10
6.60 % <i>Elymus canadensis</i>	Canada Wildrye	16.77
4.00 % <i>Agrostis perennans</i> , Albany Pine Bush-NY Ecotype	Autumn Bentgrass, Albany Pine Bush-NY Ecotype	23.40
2.80 % <i>Panicum clandestinum</i> , Tioga	Deertongue, Tioga	23.87
2.80 % <i>Panicum virgatum</i> , 'Habitat'-NJ Ecotype	Switchgrass, 'Habitat'-NJ Ecotype	10.67
1.20 % <i>Tridens flavus</i> , Fort Indiantown Gap-PA Ecotype	Purpletop, Fort Indiantown Gap-PA Ecotype	41.96
1.00 % <i>Chamaecrista fasciculata</i> , PA Ecotype	Partridge Pea, PA Ecotype	13.00
1.00 % <i>Rudbeckia hirta</i>	Blackeyed Susan	33.80
0.70 % <i>Coreopsis lanceolata</i>	Lanceleaf Coreopsis	31.20
0.70 % <i>Echinacea purpurea</i>	Purple Coneflower	46.80
0.60 % <i>Helopsis helanthoides</i> , PA Ecotype	Oxeye Sunflower, PA Ecotype	36.40
0.30 % <i>Aster pilosus</i> , PA Ecotype	Heath Aster, PA Ecotype	286.00
0.20 % <i>Monarda fistulosa</i> , Fort Indiantown Gap-PA Ecotype	Wild Bergamot, Fort Indiantown Gap-PA Ecotype	104.00
0.10 % <i>Apocynum cannabinum</i> , PA Ecotype	Indianhemp, PA Ecotype	234.00
0.10 % <i>Asclepias syriaca</i> , PA Ecotype	Common Milkweed, PA Ecotype	104.00
100.00 %	Mix Price/Lb Bulk:	\$13.74

Seeding Rate: 60 lb per acre, or 1.5 lb per 1,000 sq ft

Erosion Control & Revegetation; Grasses & Grass-like Species - Herbaceous Perennial; Herbaceous Flowering Species - Herbaceous Perennial

The native grass and forb species tolerate poor soils typically found on steep slopes in the eastern United States. Mix formulations are subject to change without notice depending on the availability of existing and new products. While the formula may change, the guiding philosophy and function of the mix will not.

STANDARD WORKSHEET #21

Temporary and Permanent Vegetative Stabilization Specifications

PROJECT NAME: A-80 – ALCOSAN Regional Conveyance Valve Replacement

LOCATION: City of Pittsburgh, Allegheny County, Pennsylvania

PREPARED BY: MWS DATE: 04/14/2025

CHECKED BY: BJS DATE: 04/15/2025

SPECIFICATIONS: The Department recommends the use of the Penn State publication, "Erosion Control and Conservation Plantings on Noncropland," as the standard to use for the selection of species, seed specifications, mixtures, liming and fertilizing, time of seeding, and seeding methods. Specifications for these items may also be obtained from PennDOT's Publication # 408, Section 504 or by contacting the applicable county conservation district. Upon selection of a reference, that reference should be used to provide all specifications for seeding, mulching, and soil amendments. The following specification will be used for this project:

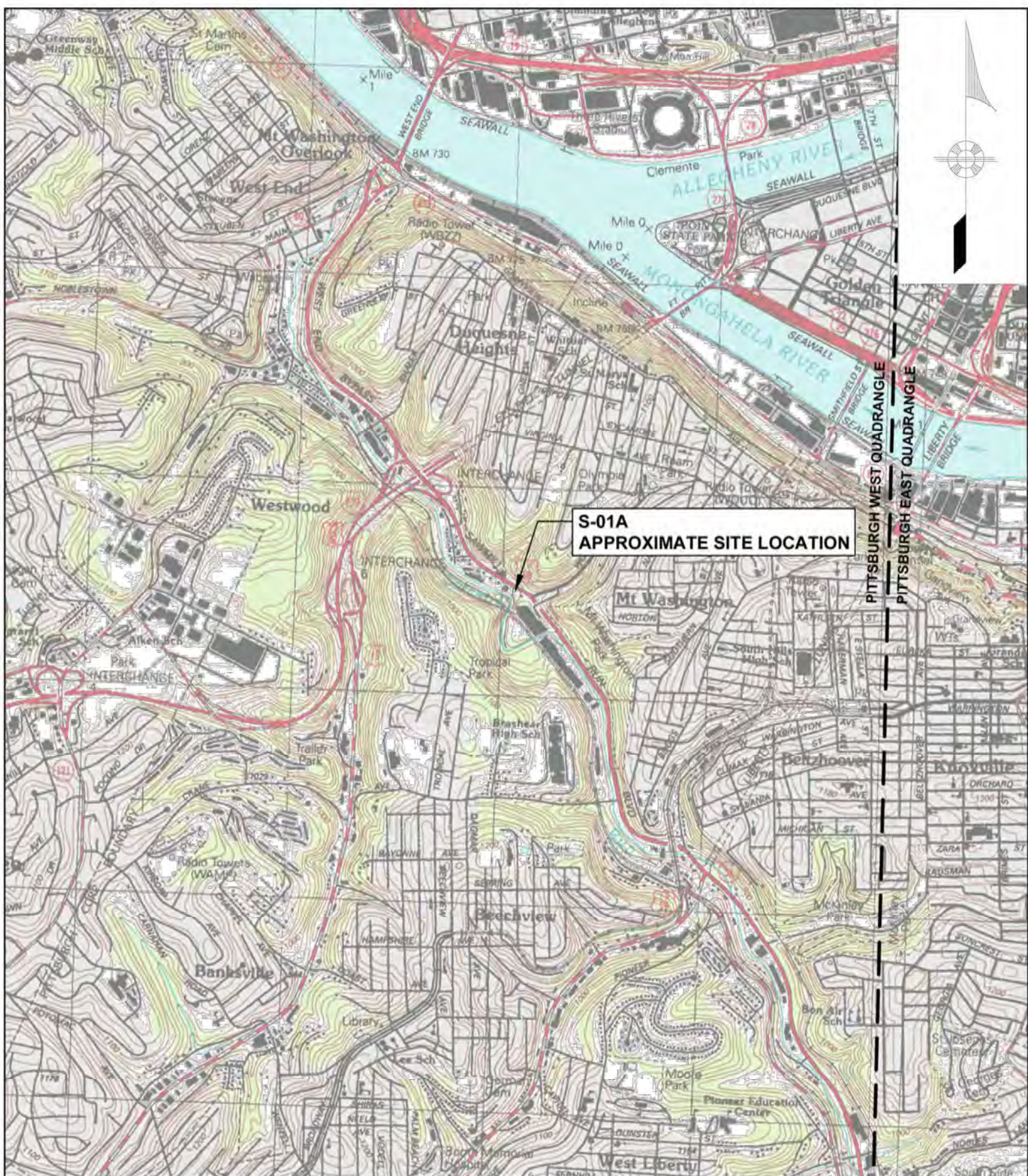
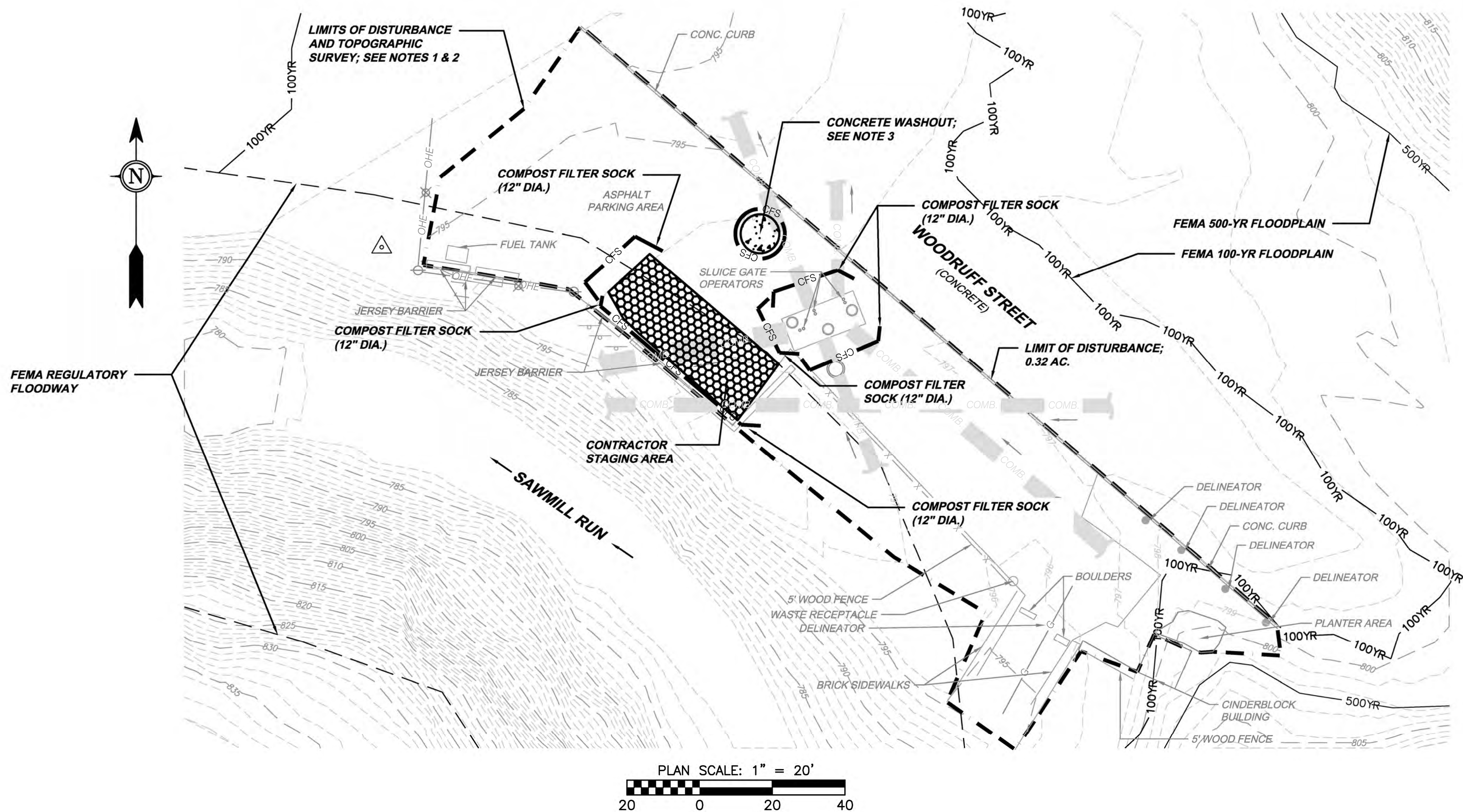
(TEMPORARY)	*SPECIES: Native Steep Slope Mix w/ Annual Ryegrass – ERNMX-181
	% PURE LIVE SEED: 97 %
	APPLICATION RATE: 1.5 LB./1,000 S.F.
	FERTILIZER TYPE: 10-10-10 (N-P-K)
	FERTILIZER APPL. RATE: 500 LB./ACRE
	LIMING RATE: 1 T./ACRE
	MULCH TYPE: Straw
	MULCHING RATE: 1,200 LB./1,000 S.Y.
(PERMANENT)	TOPSOIL PLACEMENT DEPTH: 6 IN.
	*SPECIES: Native Steep Slope Mix w/ Annual Ryegrass – ERNMX-181
	% PURE LIVE SEED: 97 %
	APPLICATION RATE: 1.5 LB./1,000 S.F.
	FERTILIZER TYPE: 10-20-20 (N-P-K)
	FERTILIZER APPL. RATE: 140 LB./1,000 S.Y.
	LIMING RATE: 800 (Agricultural Lime) LB./1,000 S.Y.
	MULCH TYPE: Straw
	MULCHING RATE: 1,200 LB./1,000 S.Y.
	**ANCHOR MATERIAL: Erosion Control Mat (PennDOT 408 806.2(a))
	**ANCHORING METHOD: Wood Stakes 1"x4"x18" (PennDOT 408 806.2(c).3.)
	**RATE OF ANCHOR MATERIAL APPL.: Varies
	SEEDING SEASON DATES: Year-round

(PERMANENT – STEEP SLOPES)	TOPSOIL PLACEMENT DEPTH: 6 IN.
	*SPECIES: Native Steep Slope Mix w/ Annual Ryegrass – ERNMX-181
	% PURE LIVE SEED: 97 %
	APPLICATION RATE: 1.5 LB./1,000 S.F.
	FERTILIZER TYPE: 10-20-20 (N-P-K)
	FERTILIZER APPL. RATE: 140 LB./1,000 S.Y.
	LIMING RATE: 800 (Agricultural Lime) LB./1,000 S.Y.
	MULCH TYPE: Straw
	MULCHING RATE: 1,200 LB./1,000 S.Y.
	**ANCHOR MATERIAL: Erosion Control Mat (PennDOT 408 806.2(a))
	**ANCHORING METHOD: Wood Stakes 1"x4"x18" (PennDOT 408 806.2(c).3.)
	**RATE OF ANCHOR MATERIAL APPL.: Varies
	SEEDING SEASON DATES: Year-round

*If more than one species is used, indicate application rate for each species.

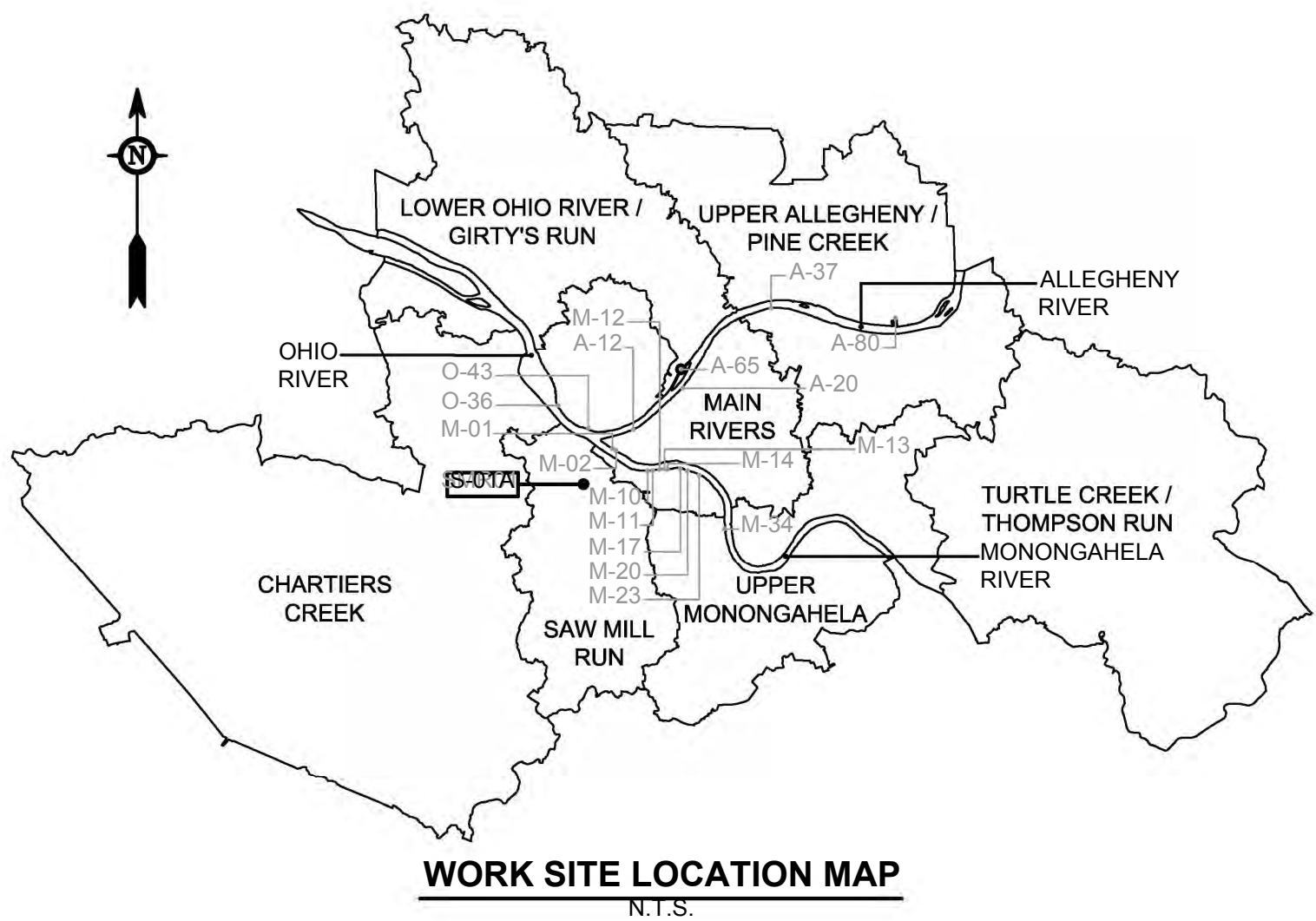
**Steep slopes only

Designed by:	REVISION				 <div>Collective Efforts, LLC Civil and Environmental Engineers 1000 West View Park Drive, Suite 7 Pittsburgh, PA 15229 412.459.0114 www.collectiveefforts.com</div>	 <div>gai consultants</div>		 <div>www.alcosan.org</div>	ARLETTA SCOTT WILLIAMS EXECUTIVE DIRECTOR, ALCOSAN 3300 PREBLE AVE. PITTSBURGH, PA 15233 (412) 766 - 4810	ALLEGHENY COUNTY SANITARY AUTHORITY REGIONAL CONVEYANCE SYSTEM MISCELLANEOUS FLAP GATE, SLUICE GATE, AND VALVE REPLACEMENTS AT VARIOUS LOCATIONS		Contract: 1818
B.STANISZEWSKI	REV No.	DATE	DESCRIPTION	APPV						CAD File Name: 1818-A-80-ES-04.DWG		
Drawn by:	0	9/2/2025	ISSUED FOR BID							Date: 06/11/2025		
B.STANISZEWSKI										Sheet: 46 of 68		
Checked by:												
C.CASADEI												



USGS SITE LOCATION MAP
(PITTSBURGH EAST AND WEST QUADRANGLES)
SCALE: 1" = 2,000'

- LEGEND**
- CONCRETE WASHOUT
 - EXCAVATED MATERIAL STOCKPILE
 - CONTRACTOR STAGING AREA
 - EXISTING MAJOR CONTOUR
 - EXISTING MINOR CONTOUR
 - LIMIT OF DISTURBANCE AND PROJECT SURVEY SEE NOTES 1 & 2
 - FEMA REGULATORY FLOODWAY
 - FEMA 100-YR FLOODPLAIN
 - FEMA 500-YR FLOODPLAIN
 - LIMIT OF DISTURBANCE
 - COMPOST FILTER SOCK



- NOTES**
- TOPOGRAPHIC INFORMATION SHOWN WITHIN LIMITS OF PROJECT SURVEY IS BASED ON FIELD SURVEY PERFORMED BY MONAHO BASIN ENGINEERS, COMPLETED IN MARCH AND APRIL OF 2025.
 - TOPOGRAPHIC INFORMATION SHOWN OUTSIDE OF PROJECT SURVEY LIMITS WAS PRODUCED FROM PENNSYLVANIA SPATIAL DATA ACCESS (PASDA) GIS DATA. GIS DATA WAS DOWNLOADED IN APRIL 2025. PASDA TOPOGRAPHIC INFORMATION IS SHOWN FOR GENERAL SPATIAL REFERENCE ONLY. PROJECT SURVEY INFORMATION SHALL SUPERSEDE PASDA TOPOGRAPHIC INFORMATION.
 - CONCRETE WASHOUT FACILITIES SHOULD NOT BE PLACED WITHIN 50 FEET OF STORM DRAINS, OPEN DITCHES OR SURFACE WATERS.
 - SITE SOILS: UB - URBAN LAND

Designed by: M.STEVENS	REVISION REV No. DATE DESCRIPTION APPV	 Collective Efforts, LLC Civil and Environmental Engineers 1000 West View Park Drive, Suite 7 Pittsburgh, PA 15229 412.459.0114 www.collectiveefforts.com			 alcosan allegheny county sanitary authority www.alcosan.org	ARLETTA SCOTT WILLIAMS EXECUTIVE DIRECTOR, ALCOSAN 3300 PREBLE AVE. PITTSBURGH, PA 15233 (412) 766 - 4810	ALLEGHENY COUNTY SANITARY AUTHORITY REGIONAL CONVEYANCE SYSTEM MISCELLANEOUS FLAP GATE, SLUICE GATE, AND VALVE REPLACEMENTS AT VARIOUS LOCATIONS S-01A SLUICE GATE REPLACEMENTS EROSION AND SEDIMENT CONTROL PLAN	Contract: 1818
Drawn by: M.STEVENS	9/2/2025 ISSUED FOR BID							CAD File Name: 1818-S-01A-ES-01.DWG
Checked by: C.CASADEI								Date: 06/11/2025
								Sheet: 47 of 68

GENERAL NOTES:

- ALL EARTH DISTURBANCES, INCLUDING CLEARING AND GRUBBING AS WELL AS CUTS AND FILLS SHALL BE DONE IN ACCORDANCE WITH THE APPROVED E&S PLAN. A COPY OF THE APPROVED DRAWINGS MUST BE AVAILABLE AT THE PROJECT SITE AT ALL TIMES.
- AT LEAST 3 DAYS PRIOR TO STARTING ANY EARTH DISTURBANCE ACTIVITIES, OR EXPANDING INTO AN AREA PREVIOUSLY UNMARKED, THE PENNSYLVANIA ONE CALL SYSTEM INC. SHALL BE NOTIFIED AT 1-800-242-1776 FOR THE LOCATION OF EXISTING UNDERGROUND UTILITIES.
- ALL EARTH DISTURBANCE ACTIVITIES SHALL PROCEED IN ACCORDANCE WITH THE SEQUENCE PROVIDED ON THE PLAN DRAWINGS. DEVIATION FROM THAT SEQUENCE MUST BE APPROVED IN WRITING FROM THE ENGINEER PRIOR TO IMPLEMENTATION.
- ASPHALT STRIPPING AND CONCRETE STRIPPING SHALL BE LIMITED TO THOSE AREAS DESCRIBED IN EACH STAGE OF THE CONSTRUCTION SEQUENCE. GENERAL SITE STRIPPING OF ASPHALT, AND STRIPPING OF CONCRETE MAY NOT COMMENCE IN ANY STAGE OR PHASE OF THE PROJECT UNTIL THE E&S BMPS SPECIFIED BY THE BMP SEQUENCE FOR THAT STAGE OR PHASE HAVE BEEN INSTALLED AND ARE FUNCTIONING AS DESCRIBED IN THIS E&S PLAN.
- AT NO TIME SHALL CONSTRUCTION VEHICLES BE ALLOWED TO ENTER AREAS OUTSIDE THE LIMIT OF DISTURBANCE BOUNDARIES SHOWN ON THE PLAN MAPS. THESE AREAS MUST BE CLEARLY MARKED AND FENCED OFF BEFORE CLEARING AND GRUBBING OPERATIONS BEGIN.
- IMMEDIATELY UPON DISCOVERING UNFORESEEN CIRCUMSTANCES POSING THE POTENTIAL FOR ACCELERATED EROSION AND/OR SEDIMENT POLLUTION, THE OPERATOR SHALL IMPLEMENT APPROPRIATE BEST MANAGEMENT PRACTICES TO MINIMIZE THE POTENTIAL FOR EROSION AND SEDIMENT POLLUTION AND NOTIFY THE REGIONAL OFFICE OF THE DEPARTMENT.
- ALL BUILDING MATERIALS AND WASTES SHALL BE REMOVED FROM THE SITE AND RECYCLED OR DISPOSED OF IN ACCORDANCE WITH THE DEPARTMENT'S SOLID WASTE MANAGEMENT REGULATIONS AT 25 PA. CODE 260.1 ET SEQ., 271.1, AND 287.1 ET. SEQ. NO BUILDING MATERIALS OR WASTES OR UNUSED BUILDING MATERIALS SHALL BE BURNED, BURIED, DUMPED, OR DISCHARGED AT THE SITE.
- ALL OFF-SITE WASTE AND BORROW AREAS MUST HAVE AN E&S PLAN APPROVED BY THE DEPARTMENT FULLY IMPLEMENTED PRIOR TO BEING ACTIVATED.
- THE CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT ANY MATERIAL BROUGHT ON SITE IS CLEAN FILL. FORM FP-001 MUST BE RETAINED BY THE PROPERTY OWNER FOR ANY FILL MATERIAL AFFECTED BY A SPILL OR RELEASE OF A REGULATED SUBSTANCE BUT QUALIFYING AS CLEAN FILL DUE TO ANALYTICAL TESTING.
- UNTIL THE SITE IS STABILIZED, ALL EROSION AND SEDIMENT BMPS SHALL BE MAINTAINED PROPERLY. MAINTENANCE SHALL INCLUDE INSPECTIONS OF ALL EROSION AND SEDIMENT BMPS AFTER EACH RUNOFF EVENT AND ON A WEEKLY BASIS. ALL PREVENTIVE AND REMEDIAL MAINTENANCE WORK, INCLUDING CLEAN OUT, REPAIR, REPLACEMENT, REGRADING, RESEEDING, REMULCHING AND RENETTING MUST BE PERFORMED IMMEDIATELY. IF THE E&S BMPS FAIL TO PERFORM AS EXPECTED, REPLACEMENT BMPS, OR MODIFICATIONS OF THOSE INSTALLED WILL BE REQUIRED.
- IT IS RECOMMENDED THAT A LOG SHOWING DATES THAT E&S BMPS WERE INSPECTED AS WELL AS ANY DEFICIENCIES FOUND AND THE DATE THEY WERE CORRECTED BE MAINTAINED ON THE SITE.
- SEDIMENT TRACKED ONTO ANY PUBLIC ROADWAY OR SIDEWALK SHALL BE RETURNED TO THE CONSTRUCTION SITE BY THE END OF EACH WORK DAY AND DISPOSED IN THE MANNER DESCRIBED IN THIS PLAN. IN NO CASE SHALL THE SEDIMENT BE WASHED, SHOVELED, OR SWEEP INTO ANY ROADSIDE DITCH, STORM SEWER, OR SURFACE WATER.
- ALL SEDIMENT REMOVED FROM BMPS SHALL BE DISPOSED OF IN THE MANNER DESCRIBED ON THE PLAN DRAWINGS.
- ALL FILLS SHALL BE COMPACTED AS REQUIRED TO REDUCE EROSION, SLIPPAGE, SETTLEMENT, SUBSIDENCE OR OTHER RELATED PROBLEMS. FILL INTENDED TO SUPPORT BUILDINGS, STRUCTURES AND CONDUITS, ETC. SHALL BE COMPACTED IN ACCORDANCE WITH LOCAL REQUIREMENTS OR CODES.
- ALL EARTHEN FILLS SHALL BE PLACED IN COMPACTED LAYERS NOT TO EXCEED 9 INCHES IN THICKNESS.
- FILL MATERIALS SHALL BE FREE OF FROZEN PARTICLES, BRUSH, ROOTS, SOD, OR OTHER FOREIGN OR OBJECTIONABLE MATERIALS THAT WOULD INTERFERE WITH OR PREVENT CONSTRUCTION OF SATISFACTORY FILLS.
- FROZEN MATERIALS OR SOFT, MUCKY, OR HIGHLY COMPRESSIBLE MATERIALS SHALL NOT BE INCORPORATED INTO FILLS.
- FILL SHALL NOT BE PLACED ON SATURATED OR FROZEN SURFACES.
- PERMANENT STABILIZATION IS DEFINED AS A MINIMUM UNIFORM, PERENNIAL 70% VEGETATIVE COVER OR OTHER PERMANENT NON-VEGETATIVE COVER WITH A DENSITY SUFFICIENT TO RESIST ACCELERATED EROSION. CUT AND FILL SLOPES SHALL BE CAPABLE OF RESISTING FAILURE DUE TO SLUMPING, SLIDING, OR OTHER MOVEMENTS. PAVEMENT OR CONCRETE.
- E&S BMPS SHALL REMAIN FUNCTIONAL AS SUCH UNTIL ALL AREAS TRIBUTARY TO THEM ARE PERMANENTLY STABILIZED OR UNTIL THEY ARE REPLACED BY ANOTHER BMP APPROVED BY THE ENGINEER.
- AFTER FINAL SITE STABILIZATION HAS BEEN ACHIEVED, TEMPORARY EROSION AND SEDIMENT BMPS MUST BE REMOVED. AREAS DISTURBED DURING REMOVAL OR CONVERSION OF THE BMPS SHALL BE STABILIZED IMMEDIATELY.
- FAILURE TO CORRECTLY INSTALL E&S BMPS, FAILURE TO PREVENT SEDIMENT-LADEN RUNOFF FROM LEAVING THE CONSTRUCTION SITE, OR FAILURE TO TAKE IMMEDIATE CORRECTIVE ACTION TO RESOLVE FAILURE OF E&S BMPS MAY RESULT IN ADMINISTRATIVE, CIVIL, AND/OR CRIMINAL PENALTIES BEING INSTITUTED BY THE DEPARTMENT AS DEFINED IN SECTION 602 OF THE PENNSYLVANIA CLEAN STREAMS LAW. THE CLEAN STREAMS LAW PROVIDES FOR UP TO \$10,000 PER DAY IN CIVIL PENALTIES, UP TO \$10,000 IN SUMMARY CRIMINAL PENALTIES, AND UP TO \$25,000 IN MISDEMEANOR CRIMINAL PENALTIES FOR EACH VIOLATION.

RECYCLING AND DISPOSAL PROCEDURES OF CONSTRUCTION WASTES

- ALL OFF-SITE WASTE AND BORROW AREAS MUST HAVE AN E&S CONTROL PLAN APPROVED BY THE PADEP FULLY IMPLEMENTED PRIOR TO BEING ACTIVATED.
- GARBAGE IS TO BE REMOVED FROM THE SITE DAILY BY THE CONTRACTOR.
- THE CONTRACTOR WILL DISPOSE OF ALL OTHER SCRAP MATERIAL. THE SCRAP MATERIAL MUST BE REMOVED FROM THE SITE DAILY AND DISPOSED OF OR RECYCLED AT A PROPERLY LICENSED/PERMITTED FACILITY. THE CONTRACTOR WILL BE RESPONSIBLE FOR ANY PERMITS AND/OR DISPOSAL FEES. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE TO ASSURE THAT ALL MATERIALS ARE HANDLED AND DISPOSED OF IN ACCORDANCE WITH APPLICABLE LAWS, RULES, AND REGULATIONS, INCLUDING, BUT NOT LIMITED TO THOSE ISSUED BY THE ENVIRONMENTAL PROTECTION AGENCY, PADEP, AND THE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION.
- ALL WASTE OR EXCESS MATERIALS NOT SUITABLE FOR THE ON-SITE STOCKPILE OR BACKFILL SHALL BE DISPOSED OF IN ACCORDANCE WITH THE DEPARTMENT'S SOLID WASTE MANAGEMENT REGULATIONS AT 25 PA CODE CHAPTER 260 §260.1 ET SEQ. 271.1 AND 287.1 ET. SEQ. AT THE PADEP-APPROVED WASTE SITE WHERE FEASIBLE CONSTRUCTION WASTE MATERIALS WILL BE RECYCLED OR WILL BE TAKEN TO THE NEAREST PADEP APPROVED FACILITY FOR DISPOSAL. EXCESS SOIL MATERIAL IF ANY WILL BE SPREAD AND REVEGETATED WITHIN THE ROW. OFF-SITE SPOIL AND/OR BORROW SITES MUST BE OPERATED UNDER A CURRENT NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM PERMIT.

PERSONS RESPONSIBLE FOR CONSTRUCTION AND OFF SITE DISPOSAL REQUIREMENTS

- IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE SATISFACTORY SOIL, E&S AND TO INTERFACE WITH APPLICABLE REGULATORY AGENCIES.
- THE CONTRACTOR IS RESPONSIBLE FOR HAVING AN APPROVED E&S PLAN AND FOR CONFIRMING THAT AN ACTIVE E&S PERMIT EXISTS FOR ANY OFF-SITE BORROW AREA LOCATIONS. IF OFF-SITE DISPOSAL IS REQUIRED, DISPOSAL MUST OCCUR AT A SITE APPROVED BY THE PADEP. PROOF OF THESE PERMISSIONS MUST BE PROVIDED TO THE OWNER AND APPLICABLE REGULATORY AGENCIES PRIOR TO USE. ALL FILL MATERIAL MUST BE USED IN ACCORDANCE WITH THE PADEP'S POLICY "MANAGEMENT OF FILL" DOCUMENT NUMBER 258-2182-773. ENVIRONMENTAL DUE DILIGENCE IS DEFINED AS: INVESTIGATIVE TECHNIQUES, INCLUDING, BUT NOT LIMITED TO, VISUAL PROPERTY INSPECTIONS, ELECTRONIC DATA BASE SEARCHES, REVIEW OF PROPERTY OWNERSHIP, REVIEW OF PROPERTY USE HISTORY, SANBORN MAPS, ENVIRONMENTAL QUESTIONNAIRES, TRANSACTION SCREENS, ANALYTICAL TESTING, ENVIRONMENTAL ASSESSMENTS OR AUDITS.
- IN THE EVENT THE CONTRACTOR WISHES TO MODIFY THE E&S PLAN, A COPY OF THE REVISED E&SCP MUST BE SUBMITTED TO THE ENGINEER AND ALCOSAN FOR APPROVAL.

MAINTENANCE PROGRAM

- AFTER CONSTRUCTION IS COMPLETED AND SITE HAS REACHED PERMANENT STABILIZATION, ALL TEMPORARY BMPS WILL BE REMOVED AND ANY LAND DISTURBED BY REMOVAL WILL BE PERMANENTLY STABILIZED, UNLESS OTHERWISE SPECIFIED. ALL MAINTENANCE MUST BE COMPLETED IMMEDIATELY AFTER AN INSPECTION IDENTIFIES THAT A BMP IS NOT FUNCTIONING.
- IF CONCENTRATED FLOW AREAS FORM DUE TO ANY STORM EVENT AND ANY AREA BECOMES UNSTABLE, THE AREA SHALL BE STABILIZED BY INSTALLING ADDITIONAL BMPS IN THE CONCENTRATED FLOW AREAS. ANY REQUIRED REPAIRS OR MAINTENANCE SHALL BE MADE IMMEDIATELY.
- THE CONTRACTOR SHALL ASSESS THE WORKING CONDITION OF THE E&S MEASURES AT LEAST WEEKLY AND AFTER EACH MEASURABLE RUNOFF EVENT (GREATER THAN ONE-QUARTER INCH IN 24 HOURS OR ANY SIGNIFICANT THAW EVENT). DAMAGED, BLOCKED, OR OTHERWISE COMPROMISED MEASURES OBSERVED DURING THE INSPECTION SHALL BE REPAIRED IMMEDIATELY.
- SEDIMENT BARRIERS SHALL BE INSPECTED WEEKLY AND AFTER EACH MEASURABLE RUNOFF EVENT. BARRIERS SHALL BE INSPECTED TO ENSURE THEY HAVE NOT BEEN DISLODGED OR BROKEN. SEDIMENT SHALL BE REMOVED WHEN ACCUMULATIONS REACH 1/2 ONE-HALF THE ABOVEGROUND HEIGHT OF THE BARRIER. DAMAGED BARRIER SHALL BE REPAIRED IN ACCORDANCE WITH THE MANUFACTURERS RECOMMENDATIONS, OR REPLACED WITHIN TWENTY-FOUR (24) HOURS OF INSPECTION. EROSION AND UNDERCUTTING OF SEDIMENT BARRIER SHALL BE PROMPTLY REPAIRED.
- IF USED DURING CONSTRUCTION, BIODEGRADABLE FILTER SOCK SHALL BE REPLACED AFTER SIX (6) MONTHS; PHOTODEGRADABLE SOCKS AFTER ONE (1) YEAR; POLYPROPYLENE SOCKS SHALL BE REPLACED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. STAKES SHALL BE REMOVED FROM SOCKS AND SOCKS SHALL BE REMOVED FROM THE SITE UPON STABILIZATION OF THE AREAS TRIBUTARY TO A SOCK.
- IT IS RECOMMENDED THAT A LOG SHOWING DATES THAT E&S BMPS WERE INSPECTED AS WELL AS ALL DEFICIENCIES FOUND AND THE DATE THEY WERE CORRECTED BE MAINTAINED ON THE SITE AND BE MADE AVAILABLE TO REGULATORY AGENCY OFFICIALS AT THE TIME OF INSPECTION.
- ALL BMPS SHALL BE INSPECTED, MAINTAINED, AND REPAIRED AS NEEDED TO ASSURE CONTINUED PERFORMANCE OF THEIR INTENDED FUNCTION. WHENEVER INSPECTION AND/OR MONITORING REVEALS THAT THE BMPS IDENTIFIED IN THE E&S PLAN ARE INADEQUATE, THE E&S PLAN SHALL BE MODIFIED, AS APPROPRIATE, IN A TIMELY MANNER. DAMAGED BMPS WILL BE REPAIRED OR REPLACED AS SOON AS PRACTICABLE, BUT NO MORE THAN SEVENTY-TWO (72) HOURS AFTER DISCOVERING THE DAMAGE. ANY SPILLAGE OR DISCHARGE OF POLLUTANTS SHALL BE REPORTED WITHIN TWENTY-FOUR (24) HOURS.
- MAINTENANCE AND REPAIR OF HEAVY EQUIPMENT AND VEHICLES INVOLVING OIL CHANGES, HYDRAULIC SYSTEM DRAIN DOWN, SOLVENT AND DE-GREASING CLEANING OPERATIONS, FUEL TANK DRAIN DOWN AND REMOVAL AND OTHER ACTIVITIES WHICH MAY RESULT IN DISCHARGE OR SPILLAGE OF POLLUTANTS TO THE GROUND OR INTO SURFACE WATER RUNOFF MUST BE CONDUCTED USING SPILL PREVENTION MEASURES, SUCH AS DRIP PANS. CONTAMINATED SURFACES SHALL BE CLEANED IMMEDIATELY FOLLOWING ANY DISCHARGE OR SPILL INCIDENT. CONTAMINATED SOIL MUST BE DISPOSED OF PROPERLY. EMERGENCY REPAIRS MAY BE PERFORMED ON-SITE USING TEMPORARY PLASTIC PLACED BENEATH AND, IF RAINING, OVER THE VEHICLE.
- THE E&S PLAN SHALL BE RETAINED ON-SITE. THE E&S PLAN SHALL BE MODIFIED WHENEVER THERE IS A SIGNIFICANT CHANGE IN THE DESIGN, CONSTRUCTION, OPERATION, OR MAINTENANCE OF ANY BMP.
- AFTER FINAL SITE STABILIZATION HAS BEEN ACHIEVED OR AFTER TEMPORARY BMPS ARE NO LONGER NEEDED, TEMPORARY EROSION AND SEDIMENTATION CONTROLS MUST BE REMOVED WITHIN THIRTY (30) DAYS. ACCUMULATED SEDIMENT SHALL BE REMOVED OR STABILIZED ON SITE. AREAS DISTURBED DURING REMOVAL OF THE CONTROLS MUST BE STABILIZED IMMEDIATELY.
- INSPECT DISCHARGE LOCATIONS TO ASCERTAIN EFFECTIVENESS OF CONTROLS. IMPLEMENT ADDITIONAL CONTROL MEASURES AS NEEDED.
- UPON FINAL COMPLETION OF AN EARTH DISTURBANCE ACTIVITY OR ANY STAGE OR PHASE OF AN ACTIVITY, THE SITE SHALL IMMEDIATELY BE PERMANENTLY STABILIZED AND PROTECTED FROM ACCELERATED EROSION AND SEDIMENTATION.

EROSION AND SEDIMENT CONTROL RECOMMENDED SEQUENCE OF CONSTRUCTION :

- CONTACT PENNSYLVANIA ONE-CALL SYSTEM AT 1-800-242-1776 PRIOR TO ANY DIGGING, DRILLING, BLASTING, OR EXCAVATION.
- CLEARLY DELINEATE THE LIMITS OF DISTURBANCE AND MARK PERTINENT SITE FEATURES (I.E. BMP LOCATIONS, ETC.).
- INSTALL FILTER SOCKS IN THE LOCATIONS IDENTIFIED ON THE PLAN DRAWINGS.
- INSTALL CONCRETE WASHOUT PRIOR TO ANY WORK ON SITE.
- BEGIN REPAIR AND IMPROVEMENT ACTIVITIES.
- REMOVE EXCAVATED MATERIAL IMMEDIATELY FROM SITE.
- EARTH DISTURBANCE ACTIVITIES LEFT INACTIVE FOR FOUR OR MORE DAYS, SHOULD BE TEMPORARILY STABILIZED.
- RESTORE AREA BY PERMANENTLY STABILIZING WITH PAVEMENT, AS NECESSARY.
- REMOVE ALL TEMPORARY BMPS ONCE AREA HAS BEEN RESTORED AND PERMANENTLY STABILIZED.

INSPECTION AND MAINTENANCE TABLE

EROSION AND SEDIMENT CONTROL MEASURE	INSPECTION SCHEDULE	MAINTENANCE REQUIREMENTS
COMPOST FILTER SOCK	INSPECT WEEKLY AND AFTER EACH RUNOFF EVENT OF 0.25 INCHES OR GREATER. INITIATE REPAIRS WITHIN 24 HOURS AFTER INSPECTION.	SEDIMENT MUST BE REMOVED WHEN ACCUMULATED TO 1/2 ABOVE GROUND HEIGHT OF SOCK.
COMPOST FILTER SOCK CONCRETE WASHOUT	INSPECT DAILY. DAMAGED OR LEAKING WASHOUTS SHOULD BE DEACTIVATED AND REPAIRED IMMEDIATELY.	CARE SHALL BE TAKEN TO ENSURE CONTINUOUS CONTACT OF THE SOCK WITH THE PLASTIC SHEETING. WHERE NECESSARY, SOCKS MAY BE STACKED SO AS TO FORM A TRIANGULAR CROSS SECTION. ACCUMULATED MATERIALS SHALL BE REMOVED WHEN THEY REACH 1/2 HEIGHT OF COMPOST SOCK WASHOUT HEIGHT. PLASTIC SHEETING SHALL BE REPLACED WITH EACH CLEANING OF THE WASHOUT FACILITY.

NOTE: IT IS SUGGESTED THAT A "VISUAL SITE INSPECTION REPORT" (DEP FORM 3800-FM-BCW0271d, AS LAST REVISED) BE COMPLETED DURING EACH INSPECTION (DAILY/ WEEKLY AND FOLLOWING RUNOFF EVENTS) AND SHALL BE KEPT ON SITE AT ALL TIMES.

SOILS ON-SITE

- UB - URBAN LAND
- W - WATER

SOIL LIMITATIONS

- URBAN LAND SOIL IS SO ALTERED BY EARTH MOVING AND DISTURBANCES THAT THE ORIGINAL SOILS CANNOT BE IDENTIFIED; THEREFORE, SOIL LIMITATIONS ARE NOT ASSIGNED TO THIS SOIL CLASSIFICATION.

Designed by:	REVISION			APPV	<div><div>Collective Efforts, LLC Civil and Environmental Engineers 1000 West View Park Drive, Suite 7 Pittsburgh, PA 15229 412.459.0114 www.collectiveefforts.com</div></div>	<div><div>gai consultants</div></div>	<div></div>	<div></div>	ARLETTA SCOTT WILLIAMS EXECUTIVE DIRECTOR, ALCOSAN 3300 PREBLE AVE. PITTSBURGH, PA 15233 (412) 766 - 4810 www.alcosan.org	ALLEGHENY COUNTY SANITARY AUTHORITY REGIONAL CONVEYANCE SYSTEM MISCELLANEOUS FLAP GATE, SLUICE GATE, AND VALVE REPLACEMENTS AT VARIOUS LOCATIONS S-01A SLUICE GATE REPLACEMENTS EROSION AND SEDIMENT CONTROL DETAILS	Contract: 1818 CAD File Name: 1818-S-01A-ES-02.DWG Date: 06/11/2025 Sheet: 48 of 68
M.STEVENS	REV No	DATE	DESCRIPTION								
Drawn by:	19	9/2/2025	ISSUED FOR BID								
M.STEVENS											
Checked by:											
C.CASADE											

TABLE 4.1 Compost Sock Fabric Minimum Specifications					
Material Type	3 mil HDPE	5 mil HDPE	5 mil HDPE	Multi-Filament Polypropylene (MFPP)	Heavy Duty Multi-Filament Polypropylene (HDMFPP)
Material Characteristics	Photo-degradable	Photo-degradable	Bio-degradable	Photo-degradable	Photo-degradable
Sock Diameters	12"	12"	12"	12"	12"
	18"	18"	18"	18"	18"
	24"	24"	24"	24"	24"
Mesh Opening	3/8"	3/8"	3/8"	3/8"	1/8"
Tensile Strength		26 psi	26 psi	44 psi	202 psi
Ultraviolet Stability % Original Strength (ASTM G-155)	23% at 1000 hr.	23% at 1000 hr.		100% at 1000 hr.	100% at 1000 hr.
Minimum Functional Longevity	6 months	9 months	6 months	1 year	2 years

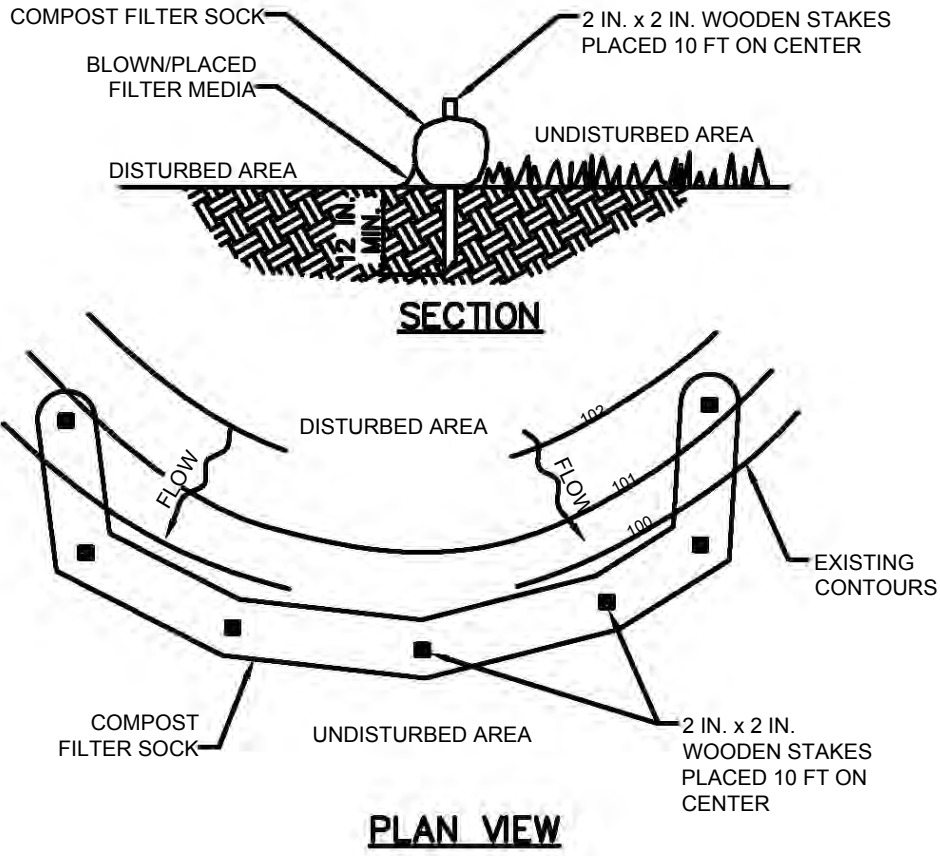
Two-ply systems	
Inner Containment Netting	HDPE biaxial net
	Continuously wound
	Fusion-welded junctures
Outer Filtration Mesh	3/4" X 3/4" Max. aperture size
	Composite Polypropylene Fabric (Woven layer and non-woven fleece mechanically fused via needle punch)
	3/16" Max. aperture size
Sock fabrics composed of burlap may be used on projects lasting 6 months or less.	

Filtrexx & JMD

TABLE 4.2
Compost Standards

Organic Matter Content	80% - 100% (dry weight basis)
Organic Portion	Fibrous and elongated
pH	5.5 - 8.0
Moisture Content	35% - 55%
Particle Size	98% pass through 1" screen
Soluble Salt Concentration	5.0 dS/m (mmhos/cm) Maximum

Filtrexx



NOTES:

SOCK FABRIC SHALL MEET STANDARDS OF TABLE 4.1 OF THE PA DEP EROSION CONTROL MANUAL. COMPOST SHALL MEET THE STANDARDS OF TABLE 4.2 OF THE PA DEP EROSION CONTROL MANUAL.

COMPOST FILTER SOCK SHALL BE PLACED AT EXISTING LEVEL GRADE. BOTH ENDS OF THE BARRIER SHALL BE EXTENDED AT LEAST 8 FEET UP SLOPE AT 45 DEGREES TO THE MAIN BARRIER ALIGNMENT. MAXIMUM SLOPE LENGTH ABOVE ANY BARRIER SHALL NOT EXCEED THAT SPECIFIED FOR THE SIZE OF THE SOCK AND THE SLOPE OF ITS TRIBUTARY AREA.

TRAFFIC SHALL NOT BE PERMITTED TO CROSS COMPOST FILTER SOCKS.

ACCUMULATED SEDIMENT SHALL BE REMOVED WHEN IT REACHES 1/2 THE ABOVE GROUND HEIGHT OF THE BARRIER AND DISPOSED IN THE MANNER DESCRIBED ELSEWHERE IN THE PLAN.

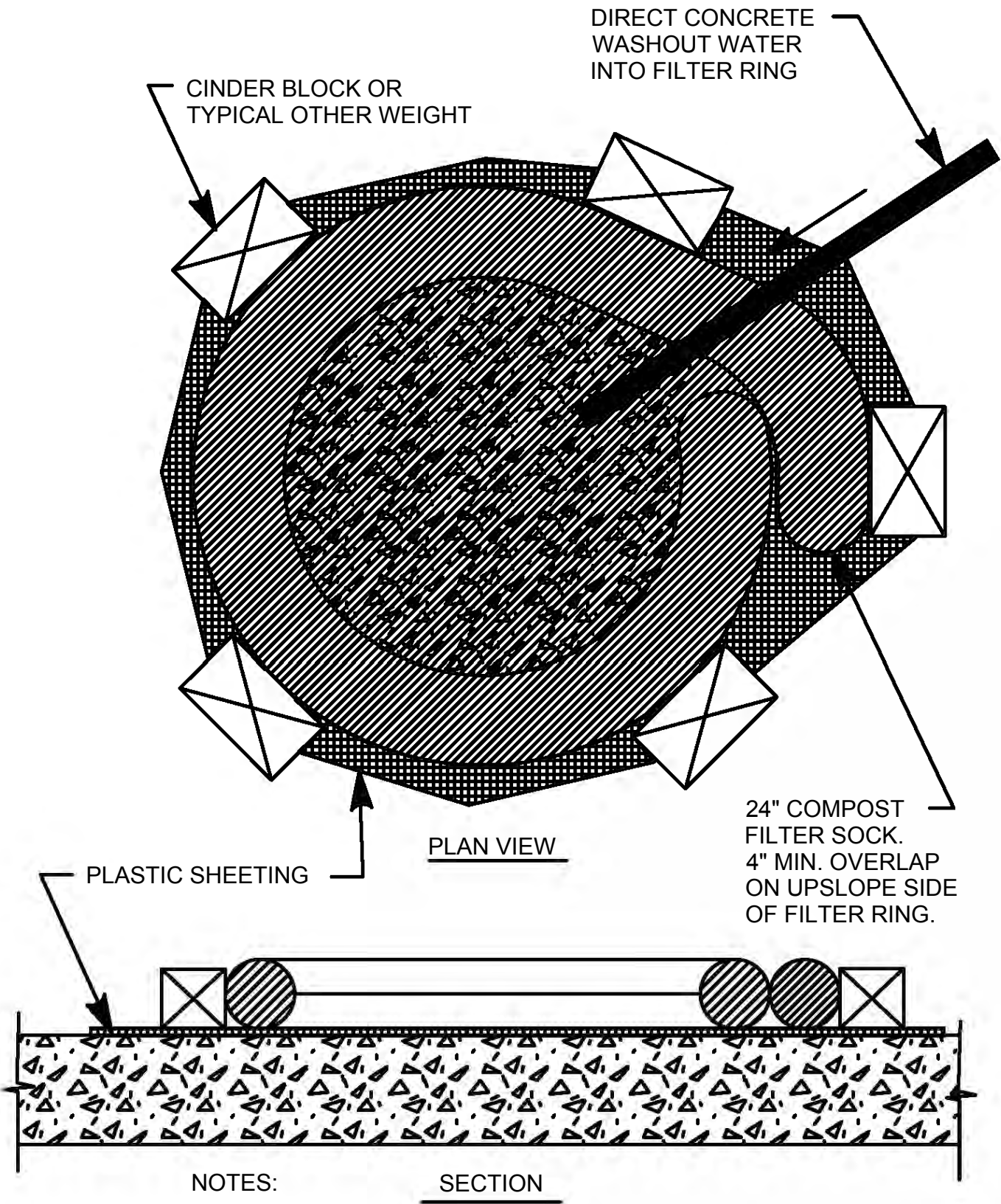
COMPOST FILTER SOCKS SHALL BE INSPECTED WEEKLY AND AFTER EACH RUNOFF EVENT. DAMAGED SOCKS SHALL BE REPAIRED ACCORDING TO MANUFACTURER'S SPECIFICATIONS OR REPLACED WITHIN 24 HOURS OF INSPECTION.

BIODEGRADABLE COMPOST FILTER SOCKS SHALL BE REPLACED AFTER 6 MONTHS; PHOTODEGRADABLE SOCKS AFTER 1 YEAR. POLYPROPYLENE SOCKS SHALL BE REPLACED ACCORDING TO MANUFACTURER'S RECOMMENDATIONS.

UPON STABILIZATION OF THE AREA TRIBUTARY TO THE SOCK, STAKES SHALL BE REMOVED. THE SOCK MAY BE LEFT IN PLACE AND VEGETATED OR REMOVED. IN THE LATTER CASE, THE MESH SHALL BE CUT OPEN AND THE MULCH SPREAD AS A SOIL SUPPLEMENT.

STANDARD CONSTRUCTION DETAIL #4-1
COMPOST FILTER SOCK

NOT TO SCALE



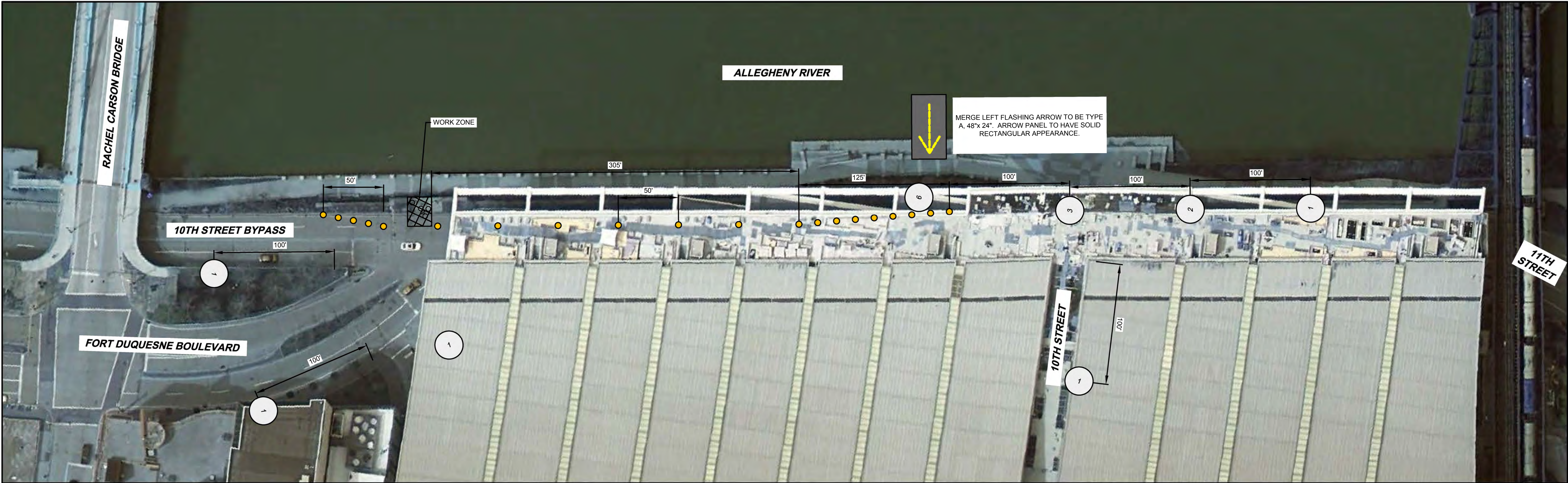
NOTES:

1. INSTALL ON FLAT GRADE FOR OPTIMUM PERFORMANCE.
2. 18" DIAMETER FILTER SOCK MAY BE STACKED ONTO DOUBLE 24" DIAMETER SOCKS IN PYRAMIDAL CONFIGURATION FOR ADDED HEIGHT.
3. A SUITABLE IMPERVIOUS 10 MIL PLASTIC SHEETING SHALL BE PLACED AT THE LOCATION OF THE WASHOUT PRIOR TO INSTALLING THE SOCKS.
4. COMPOST FILTER SOCKS SHALL BE HELD IN PLACE WITH CINDER BLOCKS OR OTHER WEIGHT.
5. TEMPORARY COMPOST SOCK WASHOUT AREA AND RESIDUAL CONCRETE SHALL BE REMOVED AND DISPOSED OFF-SITE.

TEMPORARY COMPOST FILTER SOCK
CONCRETE WASHOUT INSTALLATION

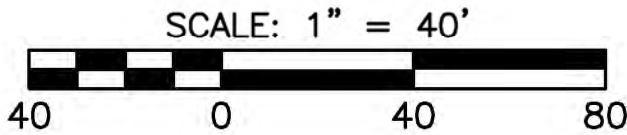
NOT TO SCALE

Designed by: M.STEVENS Drawn by: M.STEVENS Checked by: C.CASADE	REVISION				 <div>Collective Efforts, LLC Civil and Environmental Engineers 1000 West View Park Drive, Suite 7 Pittsburgh, PA. 15229 412.459.0114 www.collectiveefforts.com</div>	 <div>gai consultants</div>		 <div>ARLETTA SCOTT WILLIAMS EXECUTIVE DIRECTOR, ALCOSAN 3300 PREBLE AVE. PITTSBURGH, PA. 15233 (412) 766 - 4810 www.alcosan.org</div>	ALLEGHENY COUNTY SANITARY AUTHORITY REGIONAL CONVEYANCE SYSTEM MISCELLANEOUS FLAP GATE, SLUICE GATE, AND VALVE REPLACEMENTS AT VARIOUS LOCATIONS S-01A SLUICE GATE REPLACEMENTS EROSION AND SEDIMENT CONTROL DETAILS	Contract: 1818 CAD File Name: 1818-S-01A-ES-03.DWG Date: 06/11/2025 Sheet: 49 of 68
	REV No.	DATE	DESCRIPTION	APPV						
	1	9/2/2025	ISSUED FOR BID							



NOTE:

1. PRIOR TO BEGINNING WORK, THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING NECESSARY PERMITS. THE FOLLOWING ARE REQUIRED AT A MINIMUM:
 - 1.1. DOMI CONTRACTOR STAGING PERMIT. APPLICANTS SHOULD APPLY FOR STAGING PERMITS ONLINE THROUGH ONESTOPPGH AT LEAST ONE WEEK IN ADVANCE OF THE DATE THE STAGING PERMIT IS NEEDED.
 - 1.2. DISTRICT 11 ROADWORK NOTIFICATION AND APPROVAL (RNA) FORM (AS LAST REVISED) ALONG WITH THIS MPT PLAN SHOULD BE SUBMITTED TO THE EMAILS OF THE PRESS RELEASE, CITY OF PITTSBURGH, HOP, AND PITTSBURGH REGIONAL TRANSIT AT LEAST 12 DAYS IN ADVANCE OF WORK.
2. WORK IS RESTRICTED TO 9AM - 3PM OR 8PM - 6AM, OUTSIDE OF THE SCHOOL YEAR.
3. AN OFF-DUTY UNIFORMED POLICE OFFICER IS REQUIRED BY DOMI TO MANAGE THE INTERSECTION TRAFFIC LIGHTS AT THE INTERSECTION OF THE 10TH STREET BYPASS AND FORT DUQUESNE BLVD. THE POLICE SUPPORT REQUEST SHOULD BE DIRECTED TO THE PITTSBURGH BUREAU OF POLICE SPECIAL EVENTS COORDINATING OFFICE (412-323-7160, PBP.SPECIALEVENTS@PITTSBURGHPA.GOV).
4. TRAFFIC CONTROL COMPONENTS SHOULD BE REMOVED AS SOON AS POSSIBLE FOLLOWING COMPLETION OF WORK.



SIGN COUNT

PATA NUMBER	123-A (WORK IN RIGHT LANE - UNDIVIDED HIGHWAY)
TRAFFIC DEVICES	TOTAL
CHANNELIZING CONES	20
W20-1 (36"X36" ROAD WORK)	5
W20-5R (36"X36" RIGHT LANE CLOSED)	1
W4-2R (36"X36" PAVEMENT WIDTH TRANSITION - RIGHT LANE ENDS)	1
ARROW BOARD	1

Designed by: B.STANISZEWSKI	REVISION			
	REV No.	DATE	DESCRIPTION	APPV
		9/2/2025	ISSUED FOR BID	
Drawn by: M.HENDERSON				
Checked by: C.CASADEI				

	<p>Collective Efforts, LLC</p> <p>Civil and Environmental Engineers 1000 West View Park Drive, Suite 7 Pittsburgh, PA 15229 412.459.0114 www.collectiveefforts.com</p>
---	---

	<p>gai consultants</p>
---	-------------------------------

	<p>ARLETTA SCOTT WILLIAMS EXECUTIVE DIRECTOR, ALCOSAN</p>
	<p>3300 PREBLE AVE. PITTSBURGH, PA 15233 (412) 766 - 4810</p> <p>www.alcosan.org</p>

ALLEGHENY COUNTY SANITARY AUTHORITY REGIONAL CONVEYANCE SYSTEM MISCELLANEOUS FLAP GATE, SLUICE GATE, AND VALVE REPLACEMENTS AT VARIOUS LOCATIONS		Contract: 1818
A-12 BYPASS VALVE REPLACEMENT MAINTENANCE & PROTECTION OF TRAFFIC		CAD File Name: 1818-A-12-TC-01.DWG
		Date: 06/11/2025
		Sheet: 50 of 68

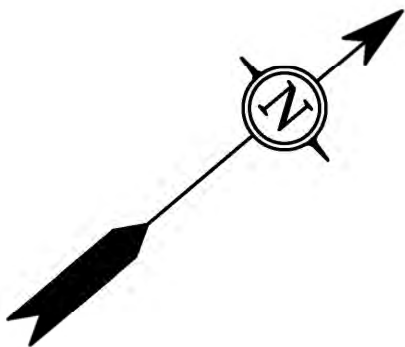
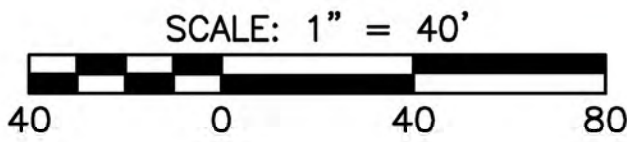


NOTE:

1. WORK EFFORTS ARE TO BE COORDINATED WITH THE CITY OF PITTSBURGH, DEPARTMENT OF PUBLIC WORKS:

JOE RUSH
SUPERINTENDENT, PARKS
DEPARTMENT OF PUBLIC WORKS
412-708-2228
JOE.RUSH@PITTSBURGHPA.GOV

KEITH YOUNGER
ASST. SUPERINTENDENT
DEPARTMENT OF PUBLIC WORKS
412-401-9612
KEITH.YOUNGER@PITTSBURGHPA.GOV



SIGN COUNT	
PATA NUMBER	N/A
TRAFFIC DEVICES	TOTAL
CHANNELIZING CONES	30
W20-1 (36"X36" ROAD WORK)	2

Designed by: B.STANISZEWSKI	REVISION			APPV
	REV No.	DATE	DESCRIPTION	
	1	9/2/2025	ISSUED FOR BID	
Drawn by: M.HENDERSON				
Checked by: C.CASADEI				



Collective Efforts, LLC
Civil and Environmental Engineers
1000 West View Park Drive, Suite 7
Pittsburgh, PA 15229
412.459.0114
www.collectiveefforts.com



gai consultants



COREEN M. CASADEI
ENGINEER
NO. 044842
PITTSBURGH, PA



alcosan
allegheny county sanitary authority
www.alcosan.org

ARLETTA SCOTT WILLIAMS
EXECUTIVE DIRECTOR, ALCOSAN
3300 PREBLE AVE.
PITTSBURGH, PA 15233
(412) 766 - 4810

ALLEGHENY COUNTY SANITARY AUTHORITY
REGIONAL CONVEYANCE SYSTEM
MISCELLANEOUS FLAP GATE, SLUICE GATE, AND
VALVE REPLACEMENTS AT VARIOUS LOCATIONS

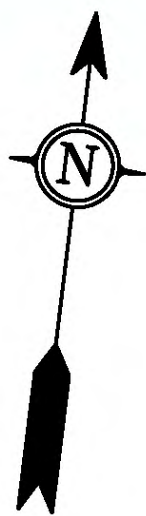
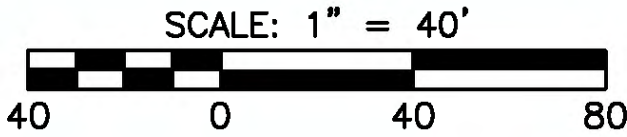
A-20
BYPASS VALVE REPLACEMENT
MAINTENANCE & PROTECTION OF TRAFFIC

Contract:	1818
CAD File Name:	1818-A-20-TC-01.DWG
Date:	06/11/2025
Sheet:	51 of 68



NOTE:

- 1. PRIOR TO STARTING WORK, THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING NECESSARY PERMITS. THE FOLLOWING ARE REQUIRED AT A MINIMUM:
 - 1.1. DOMI CONTRACTOR STAGING PERMIT. APPLICANTS SHOULD APPLY FOR STAGING PERMITS ONLINE THROUGH ONESTOPPPGH AT LEAST ONE WEEK IN ADVANCE OF THE DATE THE STAGING PERMIT IS NEEDED.
- 2. TRAFFIC CONTROL COMPONENTS SHOULD BE REMOVED AS SOON AS POSSIBLE FOLLOWING COMPLETION OF WORK.



SIGN COUNT	
PATA NUMBER	102 (SINGLE-LANE APPROACH - SHOULDER WORK WITH MINOR ROADWAY ENCROACHMENT)
TRAFFIC DEVICES	TOTAL
CHANNELIZING CONES	84
W20-1 (36"X36" ROAD WORK)	2

Designed by:
B.STANISZEWSK

Drawn by:
M.HENDERSON

Checked by:
C.CASADEI

REVISION			
REV No.	DATE	DESCRIPTION	APPV
01	9/2/2025	ISSUED FOR BID	



Collective Efforts, LLC
Civil and Environmental Engineers
1000 West View Park Drive, Suite 7
Pittsburgh, PA 15229
412.459.0114
www.collectiveefforts.com



gai consultants





alcosan
allegheeny county sanitary authority
www.alcosan.org

ARLETTA SCOTT WILLIAMS
EXECUTIVE DIRECTOR, ALCOSAN

3300 PREBLE AVE.
PITTSBURGH, PA 15233
(412) 766 - 4810

ALLEGHENY COUNTY SANITARY AUTHORITY
REGIONAL CONVEYANCE SYSTEM
MISCELLANEOUS FLAP GATE, SLUICE GATE, AND
VALVE REPLACEMENTS AT VARIOUS LOCATIONS

A-37
**FLAP GATE REPLACEMENT
MAINTENANCE & PROTECTION OF TRAFFIC**

Contract:
1818

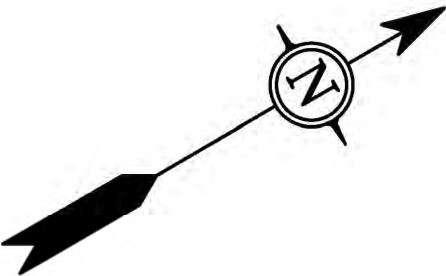
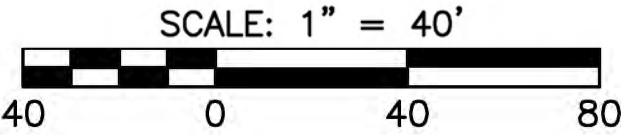
CAD File Name:
1818-A-37-TC-01.DWG

Date:
06/11/2025

Sheet:
52 of 68



- NOTE:**
1. PRIOR TO BEGINNING WORK, THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING NECESSARY PERMITS. THE FOLLOWING ARE REQUIRED AT A MINIMUM:
 - 1.1. SUBMIT THIS MPT PLAN ALONG WITH DATES OF TRAFFIC IMPACT TO DOMI.
 - 1.2. IF CONSTRUCTION MATERIALS NEED TO BE PLACED IN THE RIGHT-OF-WAY, A DOMI CONSTRUCTION STAGING PERMIT WILL BE REQUIRED. APPLICANTS SHOULD APPLY FOR MATERIALS STAGING PERMITS ONLINE THROUGH ONESTOPPGH AT LEAST ONE WEEK IN ADVANCE OF THE DATE THE MATERIALS STAGING PERMIT IS NEEDED.
 2. AT LEAST 5' OF THE THREE RIVERS HERITAGE TRAIL IS TO BE MAINTAINED OPEN TO TRAFFIC.
 3. FOLLOWING COMPLETION OF WORK, RESTORE THE TRAIL AND WORK AREA TO ORIGINAL CONDITIONS.



SIGN COUNT	
PATA NUMBER	129 (SIDEWALK CLOSED WITH PEDESTRIAN DIVERSION)
TRAFFIC DEVICES	TOTAL
CHANNELIZING CONES	7
W20-1 (36"X36" ROAD WORK)	2

Designed by: B.STANISZEWSKI	REVISION			
	REV No.	DATE	DESCRIPTION	APPV
	0	9/2/2025	ISSUED FOR BID	
Drawn by: M.HENDERSON				
Checked by: C.CASADEI				

	<p>Collective Efforts, LLC</p> <p>Civil and Environmental Engineers 1000 West View Park Drive, Suite 7 Pittsburgh, PA 15229 412.459.0114 www.collectiveefforts.com</p>
---	---

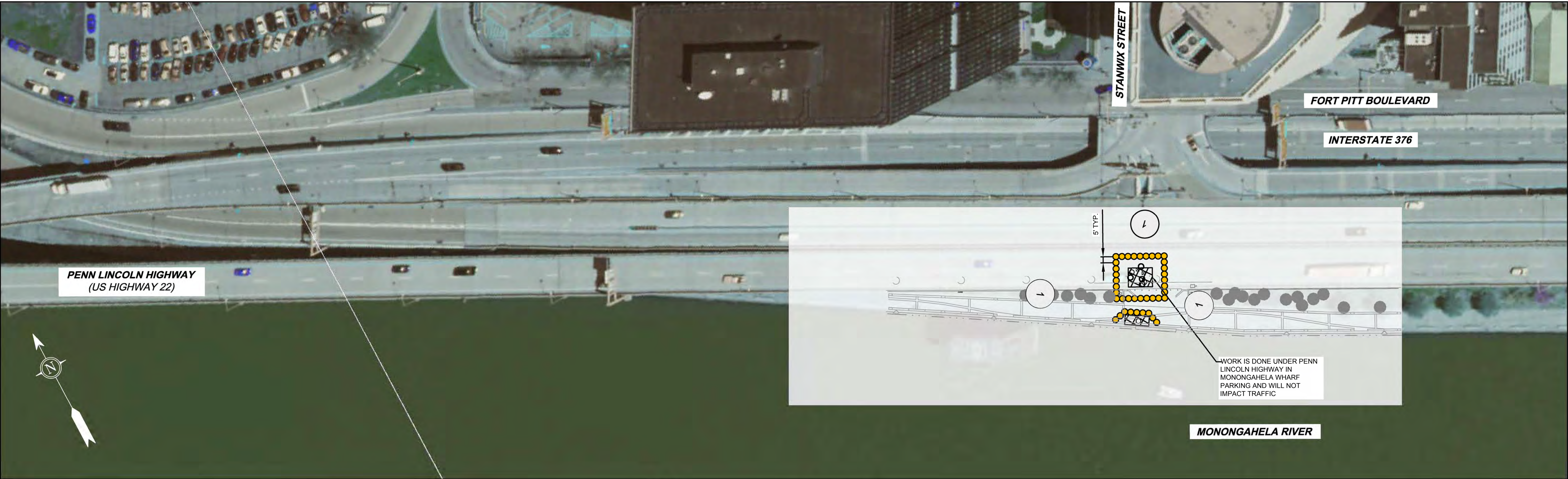

<p>gai consultants</p>



	<p>ARLETTA SCOTT WILLIAMS EXECUTIVE DIRECTOR, ALCOSAN</p> <p>3300 PREBLE AVE. PITTSBURGH, PA 15233 (412) 766 - 4810</p> <p>www.alcosan.org</p>
---	--

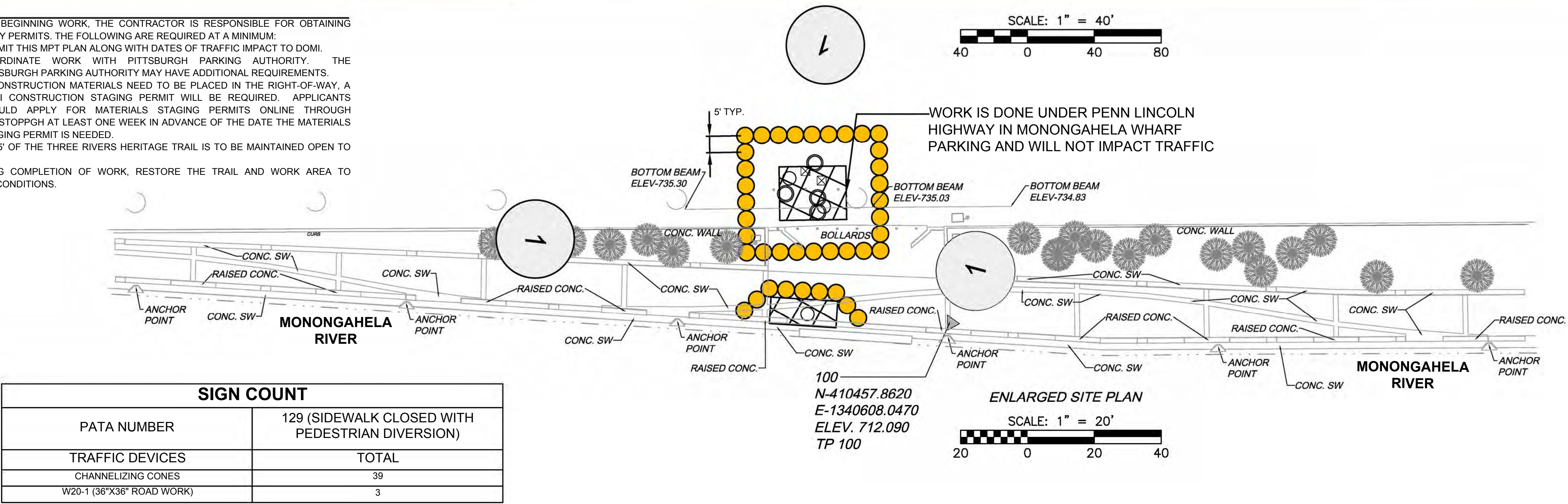
<p>ALLEGHENY COUNTY SANITARY AUTHORITY REGIONAL CONVEYANCE SYSTEM MISCELLANEOUS FLAP GATE, SLUICE GATE, AND VALVE REPLACEMENTS AT VARIOUS LOCATIONS</p>
<p>A-65 FLAP GATE REPLACEMENT MAINTENANCE & PROTECTION OF TRAFFIC</p>

Contract: 1818
CAD File Name: 1818-A-65-TC-01.DWG
Date: 06/11/2025
Sheet: 53 of 68



NOTE:

1. PRIOR TO BEGINNING WORK, THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING NECESSARY PERMITS. THE FOLLOWING ARE REQUIRED AT A MINIMUM:
 - 1.1. SUBMIT THIS MPT PLAN ALONG WITH DATES OF TRAFFIC IMPACT TO DOMI.
 - 1.2. COORDINATE WORK WITH PITTSBURGH PARKING AUTHORITY. THE PITTSBURGH PARKING AUTHORITY MAY HAVE ADDITIONAL REQUIREMENTS.
 - 1.3. IF CONSTRUCTION MATERIALS NEED TO BE PLACED IN THE RIGHT-OF-WAY, A DOMI CONSTRUCTION STAGING PERMIT WILL BE REQUIRED. APPLICANTS SHOULD APPLY FOR MATERIALS STAGING PERMITS ONLINE THROUGH ONESTOPPGH AT LEAST ONE WEEK IN ADVANCE OF THE DATE THE MATERIALS STAGING PERMIT IS NEEDED.
2. AT LEAST 5' OF THE THREE RIVERS HERITAGE TRAIL IS TO BE MAINTAINED OPEN TO TRAFFIC.
3. FOLLOWING COMPLETION OF WORK, RESTORE THE TRAIL AND WORK AREA TO ORIGINAL CONDITIONS.



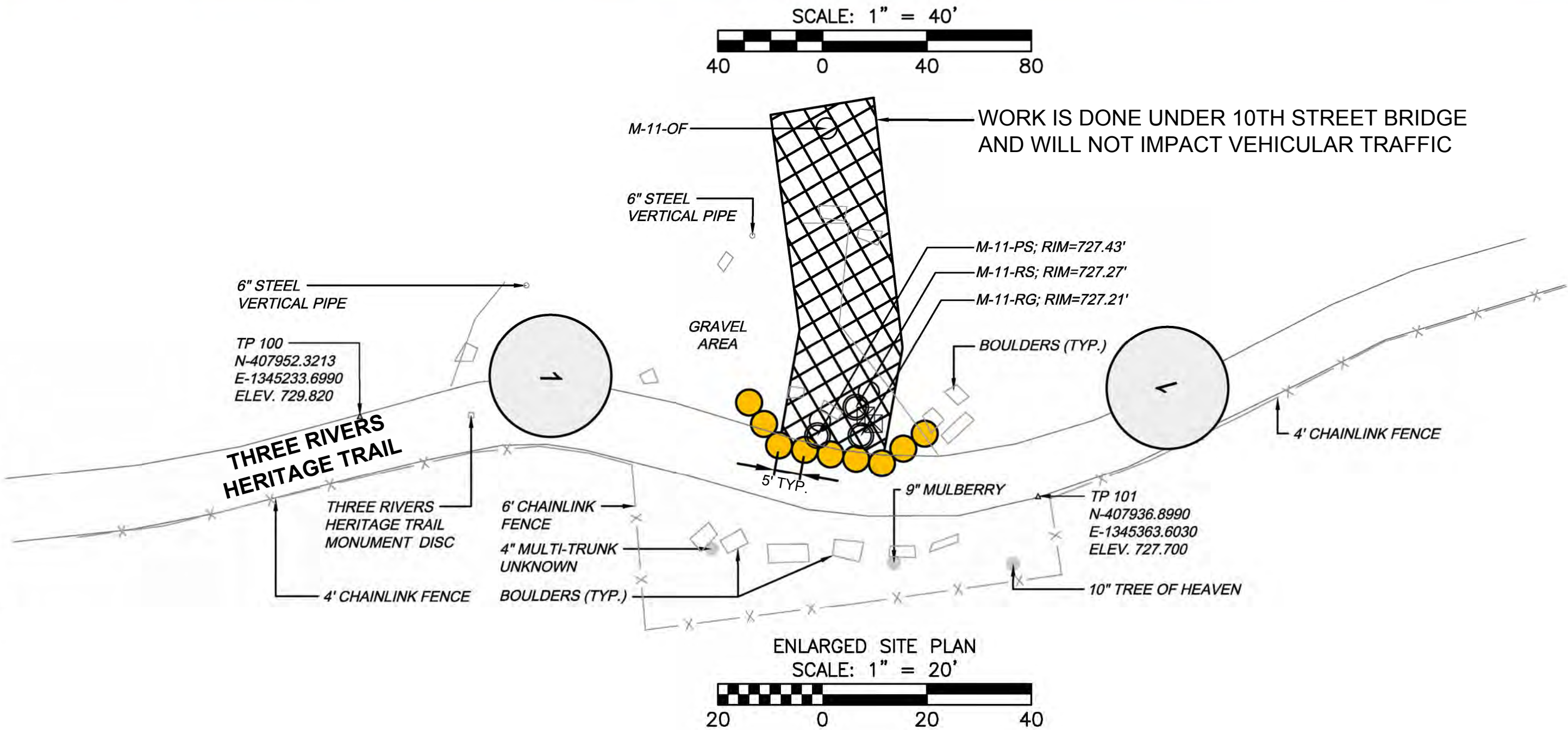
SIGN COUNT	
PATA NUMBER	129 (SIDEWALK CLOSED WITH PEDESTRIAN DIVERSION)
TRAFFIC DEVICES	TOTAL
CHANNELIZING CONES	39
W20-1 (36"X36" ROAD WORK)	3

Designed by: B.STANISZEWSKI Drawn by: M.HENDERSON Checked by: C.CASADEI	REVISION			APPV	 Collective Efforts, LLC Civil and Environmental Engineers 1000 West View Park Drive, Suite 7 Pittsburgh, PA 15229 412.459.0114 www.collectiveefforts.com	 gai consultants		 alcosan Allegheny County Sanitary Authority 3300 PREBLE AVE. PITTSBURGH, PA 15233 (412) 766 - 4810 www.alcosan.org	ARLETTA SCOTT WILLIAMS EXECUTIVE DIRECTOR, ALCOSAN	ALLEGHENY COUNTY SANITARY AUTHORITY REGIONAL CONVEYANCE SYSTEM MISCELLANEOUS FLAP GATE, SLUICE GATE, AND VALVE REPLACEMENTS AT VARIOUS LOCATIONS M-02 BYPASS VALVE REPLACEMENT MAINTENANCE & PROTECTION OF TRAFFIC	Contract: 1818
	REV No.	DATE	DESCRIPTION								CAD File Name: 1818-M-02-TC-01.DWG
	0	9/2/2025	ISSUED FOR BID								Date: 06/11/2025
											Sheet: 55 of 68

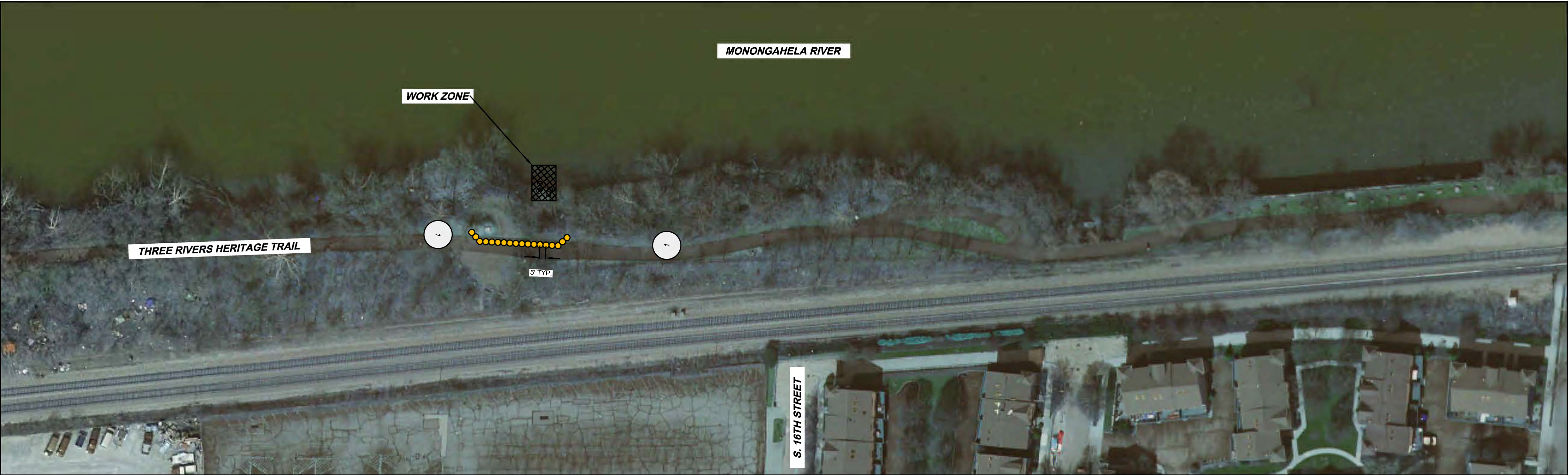


- NOTE:**
- PRIOR TO BEGINNING WORK, THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING NECESSARY PERMITS. THE FOLLOWING ARE REQUIRED AT A MINIMUM:
 - SUBMIT THIS MPT PLAN ALONG WITH DATES OF TRAFFIC IMPACT TO DOMI.
 - IF CONSTRUCTION MATERIALS NEED TO BE PLACED IN THE RIGHT-OF-WAY, A DOMI CONSTRUCTION STAGING PERMIT WILL BE REQUIRED. APPLICANTS SHOULD APPLY FOR MATERIALS STAGING PERMITS ONLINE THROUGH ONESTOPPGH AT LEAST ONE WEEK IN ADVANCE OF THE DATE THE MATERIALS STAGING PERMIT IS NEEDED.
 - AT LEAST 5' OF THE THREE RIVERS HERITAGE TRAIL IS TO BE MAINTAINED OPEN TO TRAFFIC.
 - FOLLOWING COMPLETION OF WORK, RESTORE THE TRAIL AND WORK AREA TO ORIGINAL CONDITIONS.

SIGN COUNT	
PATA NUMBER	129 (SIDEWALK CLOSED WITH PEDESTRIAN DIVERSION)
TRAFFIC DEVICES	TOTAL
CHANNELIZING CONES	9
W20-1 (36"x36" ROAD WORK)	2

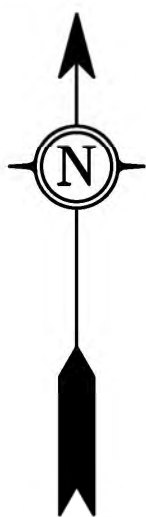
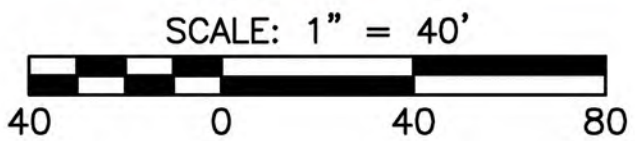


Designed by: B.STANISZEWSKI	REVISION			 Collective Efforts, LLC Civil and Environmental Engineers 1000 West View Park Drive, Suite 7 Pittsburgh, PA 15229 412.459.0114 www.collectiveefforts.com	 gai consultants	 COREY M. CASADEI ENGINEER NO. 044962 PA. 00000001	 alcosan allegheeny county sanitary authority www.alcosan.org	ARLETTA SCOTT WILLIAMS EXECUTIVE DIRECTOR, ALCOSAN 3300 PREBLE AVE. PITTSBURGH, PA 15233 (412) 766 - 4810	ALLEGHENY COUNTY SANITARY AUTHORITY REGIONAL CONVEYANCE SYSTEM MISCELLANEOUS FLAP GATE, SLUICE GATE, AND VALVE REPLACEMENTS AT VARIOUS LOCATIONS M-11 BYPASS VALVE REPLACEMENT MAINTENANCE & PROTECTION OF TRAFFIC	Contract: 1818
Drawn by: M.HENDERSON	REV No.	DATE	DESCRIPTION							CAD File Name: 1818-M-11-TC-01.DWG
Checked by: C.CASADEI										Date: 06/11/2025
										Sheet: 56 of 68



NOTE:

1. PRIOR TO BEGINNING WORK, THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING NECESSARY PERMITS. THE FOLLOWING ARE REQUIRED AT A MINIMUM:
 - 1.1. SUBMIT THIS MPT PLAN ALONG WITH DATES OF TRAFFIC IMPACT TO DOMI.
 - 1.2. IF CONSTRUCTION MATERIALS NEED TO BE PLACED IN THE RIGHT-OF-WAY, A DOMI CONSTRUCTION STAGING PERMIT WILL BE REQUIRED. APPLICANTS SHOULD APPLY FOR MATERIALS STAGING PERMITS ONLINE THROUGH ONESTOPPGH AT LEAST ONE WEEK IN ADVANCE OF THE DATE THE MATERIALS STAGING PERMIT IS NEEDED.
2. AT LEAST 5' OF THE THREE RIVERS HERITAGE TRAIL IS TO BE MAINTAINED OPEN TO TRAFFIC.
3. FOLLOWING COMPLETION OF WORK, RESTORE THE TRAIL AND WORK AREA TO ORIGINAL CONDITIONS.



SIGN COUNT	
PATA NUMBER	129 (SIDEWALK CLOSED WITH PEDESTRIAN DIVERSION)
TRAFFIC DEVICES	TOTAL
CHANNELIZING CONES	18
W20-1 (36"X36" ROAD WORK)	2

Designed by: B.STANISZEWSKI	REVISION			APPV
	REV No.	DATE	DESCRIPTION	
	1	9/2/2025	ISSUED FOR BID	
Drawn by: M.HENDERSON				
Checked by: C.CASADEI				

Collective Efforts, LLC
Civil and Environmental Engineers
1000 West View Park Drive, Suite 7
Pittsburgh, PA 15229
412.459.0114
www.collectiveefforts.com

gai consultants

Coreen M. Casadei
ENGINEER
NO. 044942
PENNSYLVANIA

alcosan
allegheeny county sanitary authority

ARLETTA SCOTT WILLIAMS
EXECUTIVE DIRECTOR, ALCOSAN

3300 PREBLE AVE.
PITTSBURGH, PA 15233
(412) 766 - 4810
www.alcosan.org

ALLEGHENY COUNTY SANITARY AUTHORITY
REGIONAL CONVEYANCE SYSTEM
MISCELLANEOUS FLAP GATE, SLUICE GATE, AND
VALVE REPLACEMENTS AT VARIOUS LOCATIONS

M-13
**BYPASS VALVE REPLACEMENT
MAINTENANCE & PROTECTION OF TRAFFIC**

Contract:	1818
CAD File Name:	1818-M-13-TC-01.DWG
Date:	06/11/2025
Sheet:	58 of 68



- NOTE:**
- PRIOR TO BEGINNING WORK, THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING NECESSARY PERMITS. THE FOLLOWING ARE REQUIRED AT A MINIMUM:
 - SUBMIT THIS MPT PLAN ALONG WITH DATES OF TRAFFIC IMPACT TO DOMI.
 - IF CONSTRUCTION MATERIALS NEED TO BE PLACED IN THE RIGHT-OF-WAY, A DOMI CONSTRUCTION STAGING PERMIT WILL BE REQUIRED. APPLICANTS SHOULD APPLY FOR MATERIALS STAGING PERMITS ONLINE THROUGH ONESTOPPGH AT LEAST ONE WEEK IN ADVANCE OF THE DATE THE MATERIALS STAGING PERMIT IS NEEDED.
 - AT LEAST 5' OF THE THREE RIVERS HERITAGE TRAIL IS TO BE MAINTAINED OPEN TO TRAFFIC.
 - FOLLOWING COMPLETION OF WORK, RESTORE THE TRAIL AND WORK AREA TO ORIGINAL CONDITIONS.

SIGN COUNT	
PATA NUMBER	129 (SIDEWALK CLOSED WITH PEDESTRIAN DIVERSION)
TRAFFIC DEVICES	TOTAL
CHANNELIZING CONES	9
W20-1 (36"X36" ROAD WORK)	2

Designed by:
B.STANISZEWSKI

Drawn by:
M.HENDERSON

Checked by:
C.CASADEI

REVISION			
REV No.	DATE	DESCRIPTION	APPV
01	9/2/2025	ISSUED FOR BID	



Collective Efforts, LLC
Civil and Environmental Engineers
1000 West View Park Drive, Suite 7
Pittsburgh, PA 15229
412.459.0114
www.collectiveefforts.com



gai consultants



COREEN M. CASADEI
ENGINEER
NO. 044042
PA 0000001



ARLETTA SCOTT WILLIAMS
EXECUTIVE DIRECTOR, ALCOSAN

3300 PREBLE AVE.
PITTSBURGH, PA 15233
(412) 766 - 4810

www.alcosan.org

ALLEGHENY COUNTY SANITARY AUTHORITY
REGIONAL CONVEYANCE SYSTEM
MISCELLANEOUS FLAP GATE, SLUICE GATE, AND
VALVE REPLACEMENTS AT VARIOUS LOCATIONS

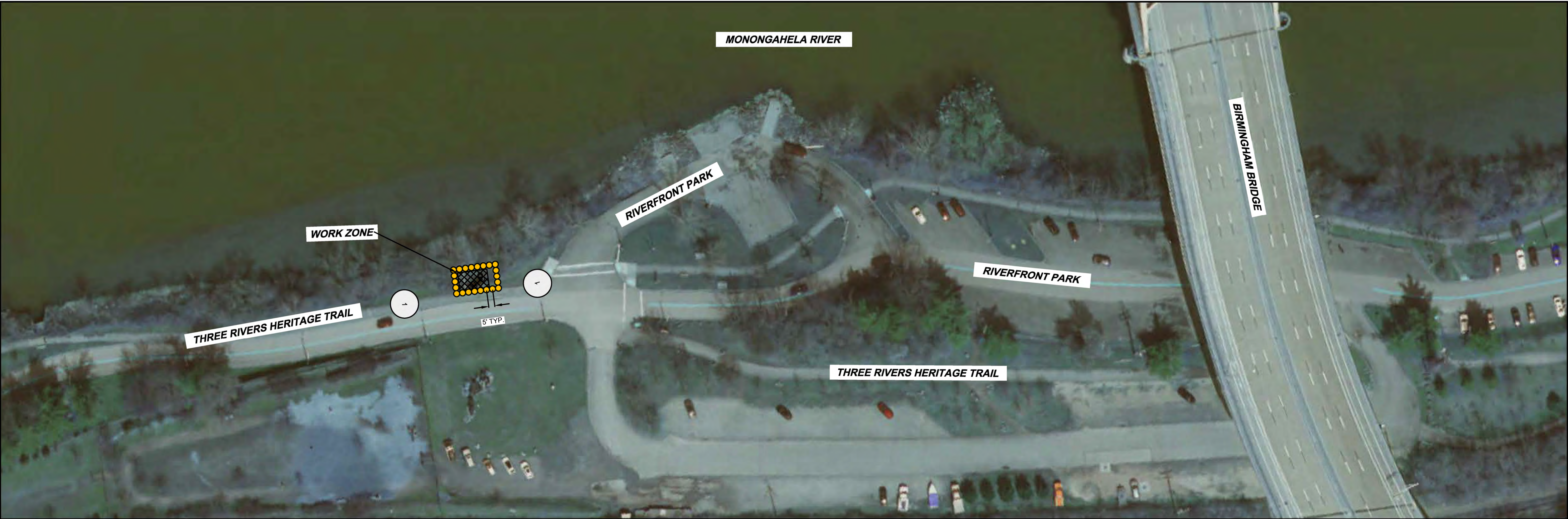
M-14
BYPASS VALVE REPLACEMENT
MAINTENANCE & PROTECTION OF TRAFFIC

Contract:
1818

CAD File Name:
1818-M-14-TC-01.DWG

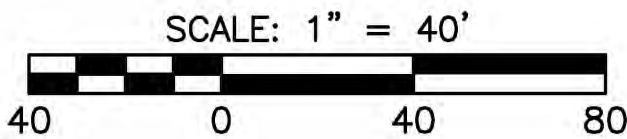
Date:
06/11/2025

Sheet:
59 of 68



NOTE:

1. PRIOR TO BEGINNING WORK, THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING NECESSARY PERMITS. THE FOLLOWING ARE REQUIRED AT A MINIMUM:
 - 1.1. SUBMIT THIS MPT PLAN ALONG WITH DATES OF TRAFFIC IMPACT TO DOMI.
 - 1.2. IF CONSTRUCTION MATERIALS NEED TO BE PLACED IN THE RIGHT-OF-WAY, A DOMI CONSTRUCTION STAGING PERMIT WILL BE REQUIRED. APPLICANTS SHOULD APPLY FOR MATERIALS STAGING PERMITS ONLINE THROUGH ONESTOPPGH AT LEAST ONE WEEK IN ADVANCE OF THE DATE THE MATERIALS STAGING PERMIT IS NEEDED.
2. AT LEAST 5' OF THE THREE RIVERS HERITAGE TRAIL IS TO BE MAINTAINED OPEN TO TRAFFIC.
3. FOLLOWING COMPLETION OF WORK, RESTORE THE TRAIL AND WORK AREA TO ORIGINAL CONDITIONS.



SIGN COUNT	
PATA NUMBER	129 (SIDEWALK CLOSED WITH PEDESTRIAN DIVERSION)
TRAFFIC DEVICES	TOTAL
CHANNELIZING CONES	22
W20-1 (36"X36" ROAD WORK)	2

Designed by: B.STANISZEWSKI	REVISION				APPV
	REV No.	DATE	DESCRIPTION		
		9/2/2025	ISSUED FOR BID		
Drawn by: M.HENDERSON					
Checked by: C.CASADEI					



Collective Efforts, LLC

Civil and Environmental Engineers
1000 West View Park Drive, Suite 7
Pittsburgh, PA 15229
412.459.0114
www.collectiveefforts.com



gai consultants



COREEN M. CASADEI
ENGINEER
NO. 044942
PA 0000001



alcosan
allegheeny county sanitary authority

ARLETTA SCOTT WILLIAMS
EXECUTIVE DIRECTOR, ALCOSAN

3300 PREBLE AVE.
PITTSBURGH, PA 15233
(412) 766 - 4810
www.alcosan.org

ALLEGHENY COUNTY SANITARY AUTHORITY
REGIONAL CONVEYANCE SYSTEM
MISCELLANEOUS FLAP GATE, SLUICE GATE, AND
VALVE REPLACEMENTS AT VARIOUS LOCATIONS

M-17
BYPASS VALVE REPLACEMENT
MAINTENANCE & PROTECTION OF TRAFFIC

Contract:
1818

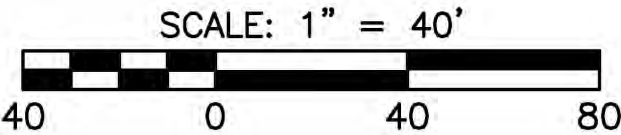
CAD File Name:
1818-M-17-TC-01.DWG

Date:
06/11/2025

Sheet:
60 of 68



- NOTE:**
- PRIOR TO BEGINNING WORK, THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING NECESSARY PERMITS. THE FOLLOWING ARE REQUIRED AT A MINIMUM:
 - SUBMIT THIS MPT PLAN ALONG WITH DATES OF TRAFFIC IMPACT TO DOMI.
 - IF CONSTRUCTION MATERIALS NEED TO BE PLACED IN THE RIGHT-OF-WAY, A DOMI CONSTRUCTION STAGING PERMIT WILL BE REQUIRED. APPLICANTS SHOULD APPLY FOR MATERIALS STAGING PERMITS ONLINE THROUGH ONESTOPPGH AT LEAST ONE WEEK IN ADVANCE OF THE DATE THE MATERIALS STAGING PERMIT IS NEEDED.
 - FOLLOWING COMPLETION OF WORK, RESTORE THE WORK AREA TO ORIGINAL CONDITIONS.

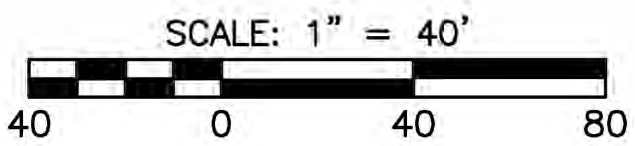


SIGN COUNT	
PATA NUMBER	N/A
TRAFFIC DEVICES	TOTAL
CHANNELIZING CONES	24

Designed by: B.STANISZEWSKI	REVISION			APPV
	REV No.	DATE	DESCRIPTION	
	0	9/2/2025	ISSUED FOR BID	
Drawn by: M.HENDERSON				
Checked by: C.CASADEI				
<div><div><div>Collective Efforts, LLC Civil and Environmental Engineers 1000 West View Park Drive, Suite 7 Pittsburgh, PA 15229 412.459.0114 www.collectiveefforts.com</div></div><div><div>gai consultants</div></div><div><div>Coreen M. Casadei Engineer No. 044942 State of Pennsylvania</div></div><div><div>alcosan allegheeny county sanitary authority www.alcosan.org</div></div><div>ARLETTA SCOTT WILLIAMS EXECUTIVE DIRECTOR, ALCOSAN 3300 PREBLE AVE. PITTSBURGH, PA 15233 (412) 766 - 4810</div></div>				
ALLEGHENY COUNTY SANITARY AUTHORITY REGIONAL CONVEYANCE SYSTEM MISCELLANEOUS FLAP GATE, SLUICE GATE, AND VALVE REPLACEMENTS AT VARIOUS LOCATIONS				Contract: 1818
M-20 BYPASS VALVE REPLACEMENT MAINTENANCE & PROTECTION OF TRAFFIC				CAD File Name: 1818-M-20-TC-01.DWG
				Date: 06/11/2025
				Sheet: 61 of 68



- NOTE:**
- 1. PRIOR TO BEGINNING WORK, THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING NECESSARY PERMITS. THE FOLLOWING ARE REQUIRED AT A MINIMUM:
 - 1.1. SUBMIT THIS MPT PLAN ALONG WITH DATES OF TRAFFIC IMPACT TO DOMI.
 - 1.2. IF CONSTRUCTION MATERIALS NEED TO BE PLACED IN THE RIGHT-OF-WAY, A DOMI CONSTRUCTION STAGING PERMIT WILL BE REQUIRED. APPLICANTS SHOULD APPLY FOR MATERIALS STAGING PERMITS ONLINE THROUGH ONESTOPPGH AT LEAST ONE WEEK IN ADVANCE OF THE DATE THE MATERIALS STAGING PERMIT IS NEEDED.
 - 2. FOLLOWING COMPLETION OF WORK, RESTORE THE WORK AREA TO ORIGINAL CONDITIONS.



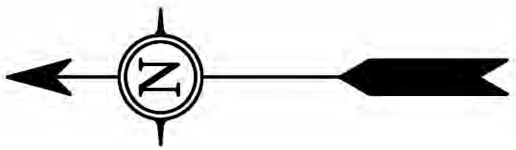
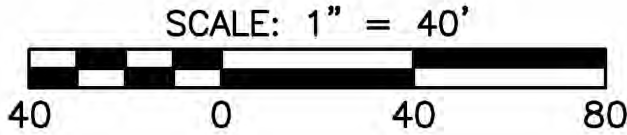
SIGN COUNT	
PATA NUMBER	N/A
TRAFFIC DEVICES	TOTAL
CHANNELIZING CONES	24
W20-1 (36"X36" ROAD WORK)	2

Designed by: B.STANISZEWSKI	REVISION			
	REV No.	DATE	DESCRIPTION	APPV
		9/2/2025	ISSUED FOR BID	
Drawn by: M.HENDERSON				
Checked by: C.CASADEI				

 <div>Collective Efforts, LLC Civil and Environmental Engineers 1000 West View Park Drive, Suite 7 Pittsburgh, PA 15229 412.459.0114 www.collectiveefforts.com</div>	 <div>gai consultants</div>		 <div>ARLETTA SCOTT WILLIAMS EXECUTIVE DIRECTOR, ALCOSAN 3300 PREBLE AVE. PITTSBURGH, PA 15233 (412) 766 - 4810 www.alcosan.org</div>	ALLEGHENY COUNTY SANITARY AUTHORITY REGIONAL CONVEYANCE SYSTEM MISCELLANEOUS FLAP GATE, SLUICE GATE, AND VALVE REPLACEMENTS AT VARIOUS LOCATIONS	Contract: 1818				
				M-23 BYPASS VALVE REPLACEMENT MAINTENANCE & PROTECTION OF TRAFFIC	CAD File Name: 1818-M-23-TC-01.DWG				
									Date: 06/11/2025
									Sheet: 62 of 68



- NOTE:**
- 1. PRIOR TO BEGINNING WORK, THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING NECESSARY PERMITS. THE FOLLOWING ARE REQUIRED AT A MINIMUM:
 - 1.1. SUBMIT THIS MPT PLAN ALONG WITH DATES OF TRAFFIC IMPACT TO DOMI.
 - 1.2. IF CONSTRUCTION MATERIALS NEED TO BE PLACED IN THE RIGHT-OF-WAY, A DOMI CONSTRUCTION STAGING PERMIT WILL BE REQUIRED. APPLICANTS SHOULD APPLY FOR MATERIALS STAGING PERMITS ONLINE THROUGH ONESTOPPGH AT LEAST ONE WEEK IN ADVANCE OF THE DATE THE MATERIALS STAGING PERMIT IS NEEDED.
 - 2. AT LEAST 5' OF THE THREE RIVERS HERITAGE TRAIL IS TO BE MAINTAINED OPEN TO TRAFFIC.
 - 3. FOLLOWING COMPLETION OF WORK, RESTORE THE TRAIL AND WORK AREA TO ORIGINAL CONDITIONS.



SIGN COUNT	
PATA NUMBER	129 (SIDEWALK CLOSED WITH PEDESTRIAN DIVERSION)
TRAFFIC DEVICES	TOTAL
CHANNELIZING CONES	29
W20-1 (36"X36" ROAD WORK)	2

Designed by: B.STANISZEWSKI	REVISION			APPV
	REV No.	DATE	DESCRIPTION	
	1	9/2/2025	ISSUED FOR BID	
Drawn by: M.HENDERSON				
Checked by: C.CASADEI				



Collective Efforts, LLC
Civil and Environmental Engineers
1000 West View Park Drive, Suite 7
Pittsburgh, PA 15229
412.459.0114
www.collectiveefforts.com



gai consultants





ARLETTA SCOTT WILLIAMS
EXECUTIVE DIRECTOR, ALCOSAN

3300 PREBLE AVE.
PITTSBURGH, PA 15233
(412) 766 - 4810

www.alcosan.org

ALLEGHENY COUNTY SANITARY AUTHORITY
REGIONAL CONVEYANCE SYSTEM
MISCELLANEOUS FLAP GATE, SLUICE GATE, AND
VALVE REPLACEMENTS AT VARIOUS LOCATIONS

M-34
FLAP GATE/TIDEFLEX REPLACEMENT
MAINTENANCE & PROTECTION OF TRAFFIC

Contract:	1818
CAD File Name:	1818-M-34-TC-01.DWG
Date:	06/11/2025
Sheet:	63 of 68



NOTE:

1. PRIOR TO BEGINNING WORK, THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING NECESSARY PERMITS. THE FOLLOWING ARE REQUIRED AT A MINIMUM.
 - 1.1. DOMI CONTRACTOR STAGING PERMIT. APPLICANTS SHOULD APPLY FOR MATERIALS STAGING PERMITS ONLINE THROUGH ONESTOPPHH AT LEAST ONE WEEK IN ADVANCE OF THE DATE THE STAGING PERMIT IS NEEDED.
2. MAINTAIN CONTINUOUS ACCESS TO ADJACENT PROPERTY AND BOAT LAUNCH.
3. FOLLOWING COMPLETION OF WORK, RESTORE THE WORK AREA TO ORIGINAL CONDITIONS.

SIGN COUNT

PATA NUMBER	109-A (APPROACHING A STOP SIGN - TWO FLAGGERS)
TRAFFIC DEVICES	TOTAL
FLAGGERS	2
CHANNELIZING CONES	16
W20-T (36"X36" ROAD WORK)	3
W20-T (36"X36" FLAGGER SYMBOL)	2
W20-4 (36"X36" ONE LANE ROAD)	2

Designed by:	REVISION			
	REV No.	DATE	DESCRIPTION	APPV
B.STANISZEWSKI	1	9/2/2025	ISSUED FOR BID	
M.HENDERSON				
C.CASADEI				



Collective Efforts, LLC
Civil and Environmental Engineers
1000 West View Park Drive, Suite 7
Pittsburgh, PA 15229
412.459.0114
www.collectiveefforts.com



gai consultants



ARLETTA SCOTT WILLIAMS
EXECUTIVE DIRECTOR, ALCOSAN

3300 PREBLE AVE.
PITTSBURGH, PA 15233
(412) 766 - 4810

www.alcosan.org

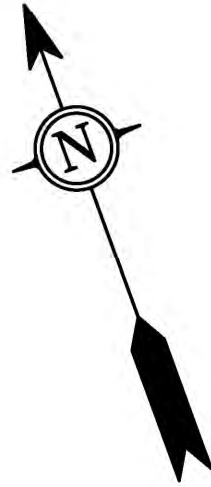
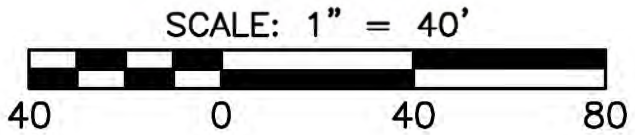
ALLEGHENY COUNTY SANITARY AUTHORITY
REGIONAL CONVEYANCE SYSTEM
MISCELLANEOUS FLAP GATE, SLUICE GATE, AND
VALVE REPLACEMENTS AT VARIOUS LOCATIONS

O-36
BYPASS VALVE REPLACEMENT
MAINTENANCE & PROTECTION OF TRAFFIC

Contract: 1818
CAD File Name: 1818-O-36-TC-01.DWG
Date: 06/11/2025
Sheet: 64 of 68



- NOTE:**
- 1. PRIOR TO BEGINNING WORK, COORDINATE WORK EFFORTS WITH THE CARNEGIE SCIENCE CENTER.
 - 2. FOLLOWING COMPLETION OF WORK, RESTORE THE WORK AREA TO ORIGINAL CONDITIONS.



SIGN COUNT	
PATA NUMBER	N/A
TRAFFIC DEVICES	TOTAL
CHANNELIZING CONES	20
W20-1 (36"X36" ROAD WORK)	2

Designed by: B. STANISZEWSKI Drawn by: M. HENDERSON Checked by: C. CASADEI	REVISION			APPV	 <div>Collective Efforts, LLC Civil and Environmental Engineers 1000 West View Park Drive, Suite 7 Pittsburgh, PA 15229 412.459.0114 www.collectiveefforts.com</div>	 <div>gai consultants</div>		 <div>ARLETTA SCOTT WILLIAMS EXECUTIVE DIRECTOR, ALCOSAN 3300 PREBLE AVE. PITTSBURGH, PA 15233 (412) 766 - 4810 www.alcosan.org</div>	ALLEGHENY COUNTY SANITARY AUTHORITY REGIONAL CONVEYANCE SYSTEM MISCELLANEOUS FLAP GATE, SLUICE GATE, AND VALVE REPLACEMENTS AT VARIOUS LOCATIONS O-43 BYPASS VALVE REPLACEMENT MAINTENANCE & PROTECTION OF TRAFFIC	Contract: 1818
	REV No.	DATE	DESCRIPTION							CAD File Name: 1818-O-43-TC-01.DWG
	1	9/2/2025	ISSUED FOR BID							Date: 06/11/2025
										Sheet: 65 of 68

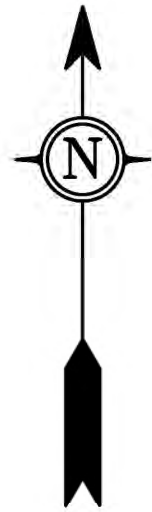
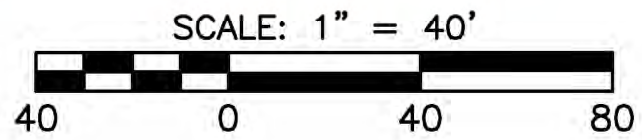


NOTE:

1. WORK EFFORTS ARE TO BE COORDINATED WITH THE CITY OF PITTSBURGH, DEPARTMENT OF PUBLIC WORKS:

JOE RUSH
SUPERINTENDENT, PARKS
DEPARTMENT OF PUBLIC WORKS
412-708-2228
JOE.RUSH@PITTSBURGHPA.GOV

KEITH YOUNGER
ASST. SUPERINTENDENT
DEPARTMENT OF PUBLIC WORKS
412-401-9612
KEITH.YOUNGER@PITTSBURGHPA.GOV



SIGN COUNT

PATA NUMBER	N/A
TRAFFIC DIVICES	TOTAL
CHANNELIZING CONES	48
W20-1 (36"X36" ROAD WORK)	1

Designed by: B.STANISZEWSKI Drawn by: M.HENDERSON Checked by: C.CASADEI	REVISION			APPV	 <div>Collective Efforts, LLC Civil and Environmental Engineers 1000 West View Park Drive, Suite 7 Pittsburgh, PA 15229 412.459.0114 www.collectiveefforts.com</div>	 <div>gai consultants</div>		 <div>ARLETTA SCOTT WILLIAMS EXECUTIVE DIRECTOR, ALCOSAN 3300 PREBLE AVE. PITTSBURGH, PA 15233 (412) 766 - 4810 www.alcosan.org</div>	ALLEGHENY COUNTY SANITARY AUTHORITY REGIONAL CONVEYANCE SYSTEM MISCELLANEOUS FLAP GATE, SLUICE GATE, AND VALVE REPLACEMENTS AT VARIOUS LOCATIONS S-01A SLUICE GATE REPLACEMENTS MAINTENANCE & PROTECTION OF TRAFFIC	Contract: 1818
	REV No.	DATE	DESCRIPTION							CAD File Name: 1818-S-01A-TC-01.DWG
	1	9/2/2025	ISSUED FOR BID							Date: 06/11/2025
										Sheet: 66 of 68

TABULATION OF TRAFFIC CONTROL DEVICES
(INCLUDED IN LUMP SUM BID ITEM 22)
FOR INFORMATION ONLY

TRAFFIC CONTROL DEVICE	DEVICE SIZE OF UNIT	DESCRIPTION	CONSTRUCTION PHASE	TOTAL OR MAX NUMBER OF DEVICES
W4-2R	36"X36"	PAVEMENT WIDTH TRANSITION - RIGHT LANE ENDS	I	1
W20-1	36"X36"	ROAD WORK	I	36
W20-4	36"X36"	ONE LANE ROAD	I	5
W20-5R	36"X36"	RIGHT LANE CLOSED	I	1
W20-7	36"X36"	FLAGGER SYMBOL	I	5
---	DAY	ADDITIONAL TRAFFIC CONTROL SIGNS	I	100
---	DAY	CHANNELIZING DEVICES	I	438
---	DAY	ARROW PANEL	I	1
---	DAY	FLAGGERS	I	4

TABULATION OF TRAFFIC CONTROL DEVICES
FOR SR 2128 (10TH ST BY-PASS)
(INCLUDED IN LUMP SUM BID ITEM 22)
FOR INFORMATION ONLY

TRAFFIC CONTROL DEVICE	DEVICE SIZE OF UNIT	DESCRIPTION	CONSTRUCTION PHASE	TOTAL OR MAX NUMBER OF DEVICES
W4-2R	36"X36"	PAVEMENT WIDTH TRANSITION - RIGHT LANE ENDS	I	1
W20-1	36"X36"	ROAD WORK	I	5
W20-4	36"X36"	ONE LANE ROAD	I	1
W20-5R	36"X36"	RIGHT LANE CLOSED	I	1
---	DAY	ADDITIONAL TRAFFIC CONTROL SIGNS	I	25
---	DAY	CHANNELIZING DEVICES	I	20
---	DAY	ARROW PANEL	I	1

GENERAL NOTES

THIS WORK CONSISTS OF THE MAINTENANCE OF TRAFFIC AND THE PROTECTION OF THE TRAVELING PUBLIC APPROACHING THE CONSTRUCTION AREA AND WITHIN THE LIMITS OF CONSTRUCTION.

FURNISH, ERECT, PLACE AND MAINTAIN TRAFFIC CONTROL SIGNS AND DEVICES AND MAINTAIN TRAFFIC DURING HOURS OF CONSTRUCTION AND AT ALL OTHER TIMES IN ACCORDANCE WITH THE METHODS INDICATED ON THESE DRAWINGS AND,

1. THE SPECIAL PROVISIONS OF THE CONTRACT.
2. PA CODE TITLE 67, CHAPTER 212, OFFICIAL TRAFFIC CONTROL DEVICES, (MARCH 2006, OR AS LAST REVISED)
3. PENNDOT PUBLICATION 213, TEMPORARY TRAFFIC CONTROL GUIDELINES, (APRIL 2022, OR AS LAST REVISED)
4. PENNDOT PUBLICATION 35, APPROVED CONSTRUCTION MATERIALS (BULLETIN 15), (JANUARY 2025, OR AS LAST REVISED).
5. PENNDOT PUBLICATION 408, SPECIFICATIONS (DATED 2020, OR AS LAST REVISED).
6. PENNDOT PUBLICATION 236, HANDBOOK OF APPROVED SIGNS, (NOVEMBER 2013, OR AS LAST REVISED).
7. PENNDOT PUBLICATION 111, TRAFFIC CONTROL-PAVEMENT MARKINGS AND SIGNING STANDARDS. TC-8600 AND TC-8700 SERIES (FEBURARY 2024, OR AS LAST REVISED).
8. MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), (2009, OR LAST REVISED).

IMMEDIATELY UPON COMPLETION OF THE WORK, REMOVE SIGNS AND DEVICES. FOR TYPE "B" AND TYPE "C" MOUNTED SIGNS, REMOVE POSTS COMPLETELY. ALCOSAN WILL REMOVE ANY TRAFFIC CONTROL DEVICES ERECTED BY ALCOSAN FORCES.

THE TRAFFIC CONTROL PLAN DOES NOT RELIEVE THE CONTRACTOR OF ITS RESPONSIBILITY AS SPECIFIED IN SECTION 901.3(a) OF PENNDOT PUBLICATION 408.

SIGN LOCATIONS MAY BE ADJUSTED SLIGHTLY TO FIT FIELD CONDITIONS.

ALL SIGNS AND DEVICES SHALL BE NEW AT THE BEGINNING OF THE PROJECT. AND MAINTAINED IN NEW CONDITION AND TO THE CITY OF PITTSBURGH'S SATISFACTION THROUGHOUT THE DURATION OF THE PROJECT.

THESE PLANS HAVE BEEN REVIEWED AND ARE IN COMPLIANCE THE STANDARDS PRESCRIBED IN CHAPTER 212 PF 67 PA. CODE AS CURRENTLY AMENDED.

NOTE THAT THIS APPROVAL DOES NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY FOR THE PROTECTION OF THE PUBLIC AND THE CONSTRUCTION PERSONNEL. THE STANDARDS PRESCRIBED ARE MINIMUM AND ADDITIONAL PROTECTION MAY BE NECESSARY IF PROBLEMS ARE ENCOUNTERED DURING THE TERM OF THE CONTRACT. CONSTANTLY REVIEW THIS PLAN FOR ADEQUACY AND RECOMMEND CHANGES FOR CITY OF PITTSBURGH APPROVAL WHEN INADEQUACIES ARE DISCOVERED.

THE CONTRACTOR HAS THE OPTION TO SUBMIT ALTERNATE TRAFFIC CONTROL PLANS FOR CONSIDERATION. THESE PLANS SHALL BE SIGNED AND SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN THE COMMONWEALTH OF PENNSYLVANIA, AND SHALL BE CONSISTENT WITH STANDARD DESIGN PRACTICES. THE CITY OF PITTSBURGH WILL ALLOW NO CONSTRUCTION ACTIVITY UNTIL THE CONTRACTOR'S ALTERNATE PLANS ARE APPROVED IN WRITING BY THE CITY TRAFFIC ENGINEER. MODIFICATION TO THE APPROVED MPT PLAN SHALL BE APPROVED BY THE CITY TRAFFIC ENGINEER OR AUTHORIZED REPRESENTATIVE.

THE CONTRACTOR SHALL HAVE A SUFFICIENT AMOUNT OF THE FOLLOWING SIGNS AVAILABLE IN CASE THEIR USE BECOMES NECESSARY. W3-4 "BE PREPARED TO STOP" AND W20-7 "FLAGGER SYMBOL" THESE SIGNS ARE NOT INTENDED TO BE PART OF THE REQUIRED NORMAL TRAFFIC CONTROL OR A SUPPLEMENT THERETO.

REPORT ALL TRAFFIC INCIDENTS WITHIN THE PROJECT LIMITS TO THE CITY TRAFFIC ENGINEER BY COPY OF THE TRAFFIC ACCIDENT REPORT FROM THE CITY OF PITTSBURGH POLICE.

THE CONTRACTOR IS RESPONSIBLE FOR CONTACTING THE PA ONE-CALL SYSTEM, INC. AT 1-800-242-1776 AT LEAST THREE (3) WORKING DAYS PRIOR TO DIGGING. PA ONE-CALL SHOULD BE CONTACTED BEFORE ANY SIGN POST ANCHOR IS DRIVEN INTO THE GROUND FOR ANY TEMPORARY AND/OR PERMANENT SIGNING.

THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL REQUIRED CITY OF PITTSBURGH PERMITS: INCLUDING, BUT NOT LIMITED TO: TRAFFIC OBSTRUCTION PERMIT, SIDEWALK OR STREET OPENING PERMIT AND TEMPORARY BUS STOP RELOCATION PERMIT.

THE CONTRACTOR IS RESPONSIBLE FOR CONTACTING PITTSBURGH REGIONAL TRANSIT FOR AREAS WHERE BUS ROUTES AND BUS STOPS ARE IMPACTED.

THE CONTRACTOR IS RESPONSIBLE FOR CONTACTING THE DEPARTMENT OF MOBILITY AND INFRASTRUCTURE FOR WORK WITHIN 100 FEET OF SIGNALIZED INTERSECTIONS TO ALLOW ADEQUATE SIGNAL TIMING FOR TRAFFIC, OR IF MPT IS IN PLACE DURING OFF HOURS.

THE CONTRACTOR IS RESPONSIBLE FOR HAVING A CITY OF PITTSBURGH POLICE OFFICER ON SITE WHILE WORK IS CONDUCTED WITHIN A SIGNALIZED INTERSECTION.

THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING WORK HOURS WITH THREE RIVERS HERITAGE TRAIL FOR AREAS WHERE THE TRAIL IS IMPACTED.

SEE INDIVIDUAL MPT SHEETS FOR SIGNAGE REQUIRED AT INDIVIDUAL SITES.

CONSTRUCTION SEQUENCING
WORK DESCRIPTION

PHASE I - VEHICULAR TRAFFIC CONTROL

IMPLEMENT SHORT-TERM, OFF-PEAK DAYTIME AND NIGHTTIME TRAVEL AND PARKING LANE CLOSURES FOR PROJECT WORK SECTIONS WITHIN THE SOUTH SIDE FLATS, STRIP DISTRICT, CHATEAU, AND DOWNTOWN PITTSBURGH. PROVIDE TRAFFIC CONTROL IN ACCORDANCE WITH THE TABLE OF PENNDOT PUBLICATION 213 PENNSYLVANIA TYPICAL APPLICATION (PATA) FIGURES FOR TEMPORARY TRAFFIC CONTROL. UTILIZE THE APPROPRIATE PATA FIGURE OR A COMBINATION THEREOF TO MAINTAIN TRAFFIC AT EACH SPECIFIED LOCATION OF WORK. CONTRACTOR TO COORDINATE SEQUENCING OF WORK SECTIONS WITH CITY OF PITTSBURGH, DEPARTMENT OF MOBILITY AND INFRASTRUCTURE. OPEN CITY STREETS TO ALL PARKING. TRAFFIC AND SIGNAL OPERATION AT THE END OF EACH WORKDAY.

UPON COMPLETION OF WORK, RESTORE CITY STREETS DURING THE ALLOWABLE WORKING HOURS IN ACCORDANCE WITH THE CONTRACT ROADWAY RESTORATION DETAILS. CONTACT CITY OF PITTSBURGH, DEPARTMENT OF MOBILITY AND INFRASTRUCTURE, FOR TYPES AND LOCATIONS OF PAVEMENT MARKINGS, TO BE REPLACED IN KIND.

PHASE I - PEDESTRIAN TRAFFIC CONTROL

PEDESTRIANS WILL REQUIRE ACCOMMODATION THROUGHOUT CONSTRUCTION. COMPLIANCE TO THE AMERICANS WITH DISABILITIES ACT (ADA) IS REQUIRED. WHERE THE WORK AREAS WILL ENCROACH UPON SIDEWALKS, PROVIDE TEMPORARY CONSTRUCTION FENCING AS REQUIRED TO SEPARATE PEDESTRIANS FROM WORK AREAS. MATCH EXISTING WIDTH WHERE LESS THAN 60 INCHES, OR MAINTAIN A MINIMUM WIDTH OF 60 INCHES THROUGHOUT THE ENTIRE LENGTH OF THE PEDESTRIAN PATHWAY. AT LOCATIONS WHERE THESE WIDTHS CANNOT BE MAINTAINED, PROVIDE TRAFFIC CONTROL IN ACCORDANCE WITH THE TABLE OF PENNDOT PUBLICATION 213 PENNSYLVANIA TYPICAL APPLICATION (PATA) FIGURES FOR TEMPORARY TRAFFIC CONTROL. WHERE REQUIRED FOR ADA COMPLIANCE, TEMPORARY WHEELCHAIR RAMPS SHALL BE INSTALLED AND MAINTAINED BY THE CONTRACTOR. MAINTAIN PEDESTRIAN ACCESS AT ALL TIMES.

Designed by: B. STANISZEWSKI Drawn by: M. HENDERSON Checked by: C. CASADEI	REVISION				 <div>Collective Efforts, LLC Civil and Environmental Engineers 1000 West View Park Drive, Suite 7 Pittsburgh, PA. 15229 412.459.0114 www.collectiveefforts.com</div>	 <div>gai consultants</div>			ARLETTA SCOTT WILLIAMS EXECUTIVE DIRECTOR, ALCOSAN 3300 PREBLE AVE. PITTSBURGH, PA. 15233 (412) 766 - 4810 www.alcosan.org	ALLEGHENY COUNTY SANITARY AUTHORITY REGIONAL CONVEYANCE SYSTEM MISCELLANEOUS FLAP GATE, SLUICE GATE, AND VALVE REPLACEMENTS AT VARIOUS LOCATIONS	Contract: 1818
	REV No.	DATE	DESCRIPTION	APPV						CAD File Name: 1818-LEG-TC-01.DWG	
	1	9/2/2025	ISSUED FOR BID							Date: 06/11/2025	
										Sheet: 67 of 68	

TABLE OF PENNDOT PUBLICATION 213 PENNSYLVANIA TYPICAL APPLICATION
(PATA) FIGURES FOR TEMPORARY TRAFFIC CONTROL

LOCATION		102	107	109-A	123-A	129
		WORK IN SHOULDER (ROAD WORK SIGN)	WORK IN ONE-LANE (TWO FLAGGERS)	WORK IN INTERSECTION (ONE FLAGGER)	WORK IN RIGHT LANE (UNDIVIDED HIGHWAY)	SIDEWALK CLOSED WITH PEDESTRIAN DIVERSION
ALLEGHENY RIVER	10TH ST BY-PASS (A-12)				X	
	EAZOR SQUARE (A-20)					
	A.V.R.R (A-37)	X				
	THREE RIVERS HERITAGE TRAIL (A-65)					X
MONONGAHELA RIVER	CITY PARKING LOT (M-01)					X
	CITY PARKING LOT (M-02)					X
	THREE RIVERS HERITAGE TRAIL (M-11)					X
	THREE RIVERS HERITAGE TRAIL (M-12)					X
	THREE RIVERS HERITAGE TRAIL (M-13)					X
	THREE RIVERS HERITAGE TRAIL (M-14)					X
	THREE RIVERS HERITAGE TRAIL (M-17)					X
	THREE RIVERS HERITAGE TRAIL (M-20)					
	THREE RIVERS HERITAGE TRAIL (M-23)					
	THREE RIVERS HERITAGE TRAIL (M-34)					X
OHIO RIVER	LIVERPOOL ST (O-36)			X		
	CASINO DR (O-43)					
SAW MILL RUN BOULEVARD	CITY PARKING LOT (S-01A)					

MAJOR AND MINOR STREET LISTING

MAJOR STREET ①	② MINOR STREET
ALLEGHENY RIVER	
③ 10TH ST BY-PASS (A-12)	
	EAZOR SQUARE (A-20)
	A.V.R.R (A-37)
	THREE RIVERS HERITAGE TRAIL (A-65)
MONONGAHELA RIVER	
	CITY PARKING LOT (M-01)
	CITY PARKING LOT (M-02)
	THREE RIVERS HERITAGE TRAIL (M-11)
	THREE RIVERS HERITAGE TRAIL (M-12)
	THREE RIVERS HERITAGE TRAIL (M-13)
	THREE RIVERS HERITAGE TRAIL (M-14)
	THREE RIVERS HERITAGE TRAIL (M-17)
	THREE RIVERS HERITAGE TRAIL (M-20)
	THREE RIVERS HERITAGE TRAIL (M-23)
	THREE RIVERS HERITAGE TRAIL (M-34)
OHIO RIVER	
	LIVERPOOL ST (O-36)
	CASINO DR (O-43)
SAW MILL RUN	
	CITY PARKING LOT (S-01A)

- ① MAJOR STREET – ALL STREETS
7:00 A.M. TO 5:00 P.M. SUNDAY THROUGH SATURDAY.
LANE RESTRICTIONS PROHIBITED: 7:00 A.M. – 9:00 A.M. AND 3:00 P.M. – 5:00 P.M. MONDAY THROUGH FRIDAY
- ② MINOR STREET – ALL STREETS
7:00 A.M. TO 5:00 P.M. SUNDAY THROUGH SATURDAY.
NO LANE RESTRICTION TIMES
- ③ ROAD MUST HAVE TWO TRAVEL LANES OPEN AT A TIME.

Designed by:
B.STANISZEWSKI

Drawn by:
M.HENDERSON

Checked by:
C.CASADEI

REVISION				APPV
REV No.	DATE	DESCRIPTION		
1	9/2/2025	ISSUED FOR BID		



Collective Efforts, LLC
Civil and Environmental Engineers
1000 West View Park Drive, Suite 7
Pittsburgh, PA 15229
412.459.0114
www.collectiveefforts.com



gai consultants



COREEN M. CASADEI
ENGINEER
NO. 044962
PENNSYLVANIA



alcosan
allegheeny county sanitary authority

ARLETTA SCOTT WILLIAMS
EXECUTIVE DIRECTOR, ALCOSAN

3300 PREBLE AVE.
PITTSBURGH, PA 15233
(412) 766 - 4810

www.alcosan.org

ALLEGHENY COUNTY SANITARY AUTHORITY
REGIONAL CONVEYANCE SYSTEM
MISCELLANEOUS FLAP GATE, SLUICE GATE, AND
VALVE REPLACEMENTS AT VARIOUS LOCATIONS

VALVE AND GATE REPLACEMENTS
CITY OF PITTSBURGH
MAINTENANCE & PROTECTION OF TRAFFIC

Contract:
1818

CAD File Name:
1818-LEG-TC-02.DWG

Date:
06/11/2025

Sheet:
68 of 68