

ADDENDUM NO. 1  
SEWERAGE SYSTEM IMPROVEMENTS  
CONTRACT 16-01  
PEAK WASTEWATER FLOW DIVERSION  
PUMPING STATION MODIFICATIONS  
CLEVELAND UTILITIES  
CLEVELAND, TENNESSEE  
CU PROJECT NO. S2683X  
WAUFORD PROJECT NO. 4626

Date of Addendum: Wednesday, April 5, 2017

Bid Opening: Tuesday, April 11, 2017, 2:00 P.M. Eastern Time

1. The following Contractors are pre-qualified to submit bids for Contract 16-01 – Peak Wastewater Flow Diversion Pumping Station Modifications:

Haren Construction Company, Inc.  
1715 Highway 411 North  
Etowah, TN 37331  
Phone: 423-263-5561  
Fax: 423-263-5573

Layne Heavy Civil, Inc.  
300 E. Broad Street  
Fairburn, GA 31833  
Phone: 770-969-4040  
Fax: 770-969-4363

P.F. Moon and Company, Inc.  
2207 Highway 103  
West Point, GA 31833  
Phone: 706-643-1524  
Fax: 706-645-1511

Roy Joe Angel Construction  
195 Rocking A Farm Lane  
Pikeville, TN 37367  
Phone: 423-881-3871  
Fax: 423-881-3881

W & O Construction Co., Inc.  
150 Construction Drive  
Livingston, TN 38570  
Phone: 931-403-1000  
Fax: 931-403-3888

Wright Brothers Construction  
1500 Lauderdale Memorial Hwy.  
Charleston, TN 37310  
Phone: 931-302-1553

2. Pre-Bid Conference Attendance Sheet:

See the attached attendance sheet from the Pre-Bid Conference.

3. Detailed Specifications, Section 1. General Scope and Special Provisions, Paragraph 33. Noise, Odor and Dust Control, Page DS 1-11:

Modify the paragraph to read as follows:

“The work hereunder is to be performed within the urban area of **Cleveland** which is a residential area. The Contractor shall be responsible for noise,

odor and dust abatement procedures and shall not commence work in these areas before 7:00 a.m. local prevailing time.”

4. Detailed Specifications, Section 4. Piping, Valves, Structures, and Site Work, Page DS 4-22:

Add the following paragraph to the end of this Section.

**“21. Electric Actuators**

***Electric motor type actuators shall be manufactured to comply with the applicable requirements of ANSI/AWWA Standard C540.***

***Electric actuators shall be configured as shown on the Plans.***

***Electric actuators shall include the motor, operating unit gearing, limit switch gearing, limit switches, torque switches, reversing contactors, declutch lever or knob and auxiliary handwheel as a self-contained unit.***

***A watertight terminal compartment seal shall be furnished for each actuator to prevent moisture from entering the actuator through the conduit entry ports. The watertight terminal compartment seal shall be double sealed intermediate frame option manufactured by Auma Actuators, Inc., the Separate Terminal Module manufactured by EIM, or approved equal.***

***The actuator motor shall be for single phase, 60 Hz, 240 volts A.C. electric power and enclosed in a NEMA 4X enclosure provided with a heater to prevent moisture accumulation. The motor shall be designed for a maximum of 60 starts per hour without any deleterious effects. The actuator shall be locally hand controlled.***

***Torque switches shall be wired to shut off the operator motor in the event excessive torque is being generated in either direction of travel.***

***The electric actuators shall be sized to be compatible with size and type gate supplied and to provide tight closure under the design operating conditions. Construction of the actuator shall be such that it may be mounted in any position required for manual operation. The maximum time required to open or close the gate shall be 10 seconds.***

***A mechanical indicator shall be provided on the outside of the house to continually indicate gate position.***

***A handwheel for manual operation shall be provided. The handwheel shall be designed to operate the gate using the motor operating unit gearing and require no more than 20 pounds of rim pull. When converting for manual operation, power to motor circuit shall be automatically disconnected to prevent accidental operation of the actuator.”***

5. Detailed Specifications, Sub-Section 5A. Wet Pit Submersible Pump, Variable Frequency Drive, and Accessories, Subparagraph 6. Equipment and Materials, item a. Wet Pit Submersible Type Wastewater Pump and Motor, page DS 5A-7:

Add the following paragraph to the end of this item.

**“(8) *Moisture and Temperature Sensing Relay Module***

***A specifically designed submersible pump moisture and temperature sensing relay module shall be provided by the pump manufacturer for each submersible pump. The module shall monitor shaft seal and stator temperature of the submersible pump motors. Seal leakage shall be detected by either a resistive float switch or a pair of conductive probes installed in the seal cavity. Over-temperature shall be detected by a normally-closed low temperature switch mounted on the stator. The over-temperature function incorporates a relay that retains its position during power failures.”***

6. Plans, Sheet 1:  
Revise as shown on attached Plans, Sheet 1.
7. Plans, Sheet 2:  
Revise as shown on attached Plans, Sheet 2.
8. Plans, Sheet 3:  
Revise as shown on attached Plans, Sheet 3.

9. Plans, Sheet 4:

Revise as shown on attached Plans, Sheet 4.

10. Questions and Clarifications:

See attached Questions and Clarifications from the Pre-Bid Conference.

J. R. WAUFORD & COMPANY,  
CONSULTING ENGINEERS, INC.



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Scott B. Carroll, P.E.  
Tennessee License # 116799

Sign in Sheet – Pre-Bid Conference

SEWERAGE SYSTEM IMPROVEMENTS

CONTRACT NO. 16-01

PEAK WASTEWATER FLOW DIVERSION PUMPING STATION MODIFICATIONS

CLEVELAND UTILITIES

CLEVELAND, TENNESSEE

CU PROJECT NO. S2683X

WAUFORD PROJECT NO. 4626

PRE-BID CONFERENCE: TUESDAY, APRIL 4, 2017 10:00 A.M. EASTERN TIME

BID OPENING: TUESDAY, APRIL 11, 2017, 2:00 P.M. EASTERN TIME

Name	Organization	Email or Phone
SCOTT CARROLL	WAUFORD	SCOTT@JRWAUFORD.COM
Danny Hayes	P.F. Moon Co	dhayes@pfmoon.com
Greg Daneyust	Wauford	gregd@jrwauford.com
Billy F. Angel	Angel Const.	
Brian Kyffin	WTO Construction	bids@wocc.com 931 510-4429
David Campbell	Lec Company	dcampbell@leccompany.com 931 644 9798
Chad Freund	Godwin / Xylem	chad.freund@xylem.com 404-557-2085
Chris Smith	Godwin / Xylem	Chris.smith01@xylem.com 470-865-8938
GARY SMITHERS	UNITED SERVICES, INC.	GARY@USINCTN.COM (865) 297-2236
Aaron Hunsucker	Stansell Electric	ahunsucker@stansellelectric.com
Shane Randolph	Layne	shane.randolph@layne.com 615-708-1164
Ray Joe Angel	Angel Const.	patsy-angelbase@yahoo.com 423-881-3871
David Swafford	DC Electrical, LLC	423-762-4201

Sign in Sheet – Pre-Bid Conference

SEWERAGE SYSTEM IMPROVEMENTS

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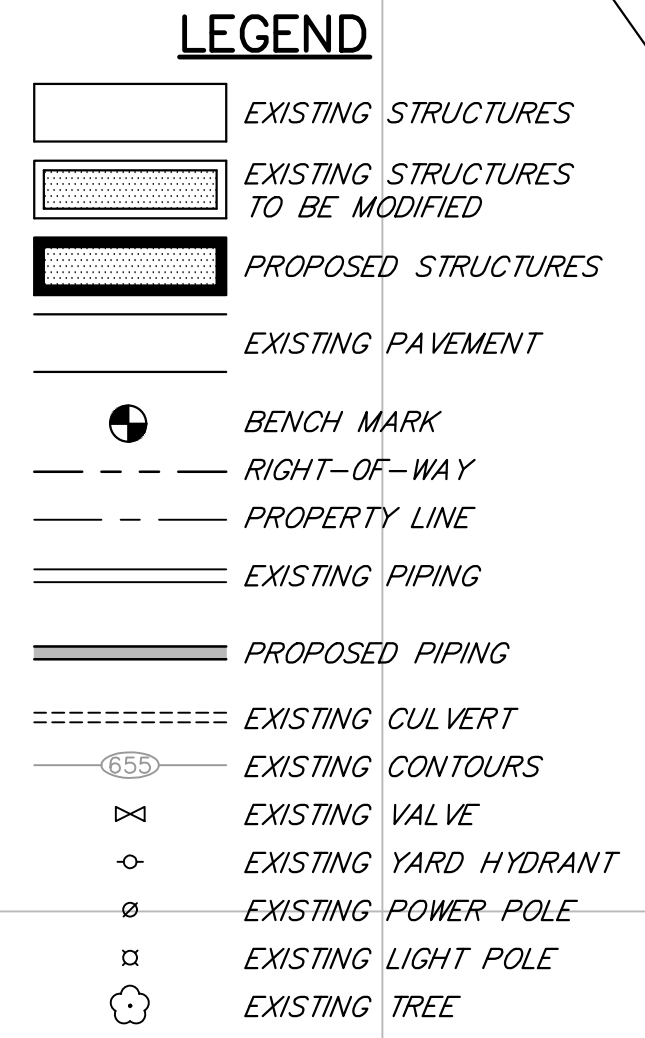
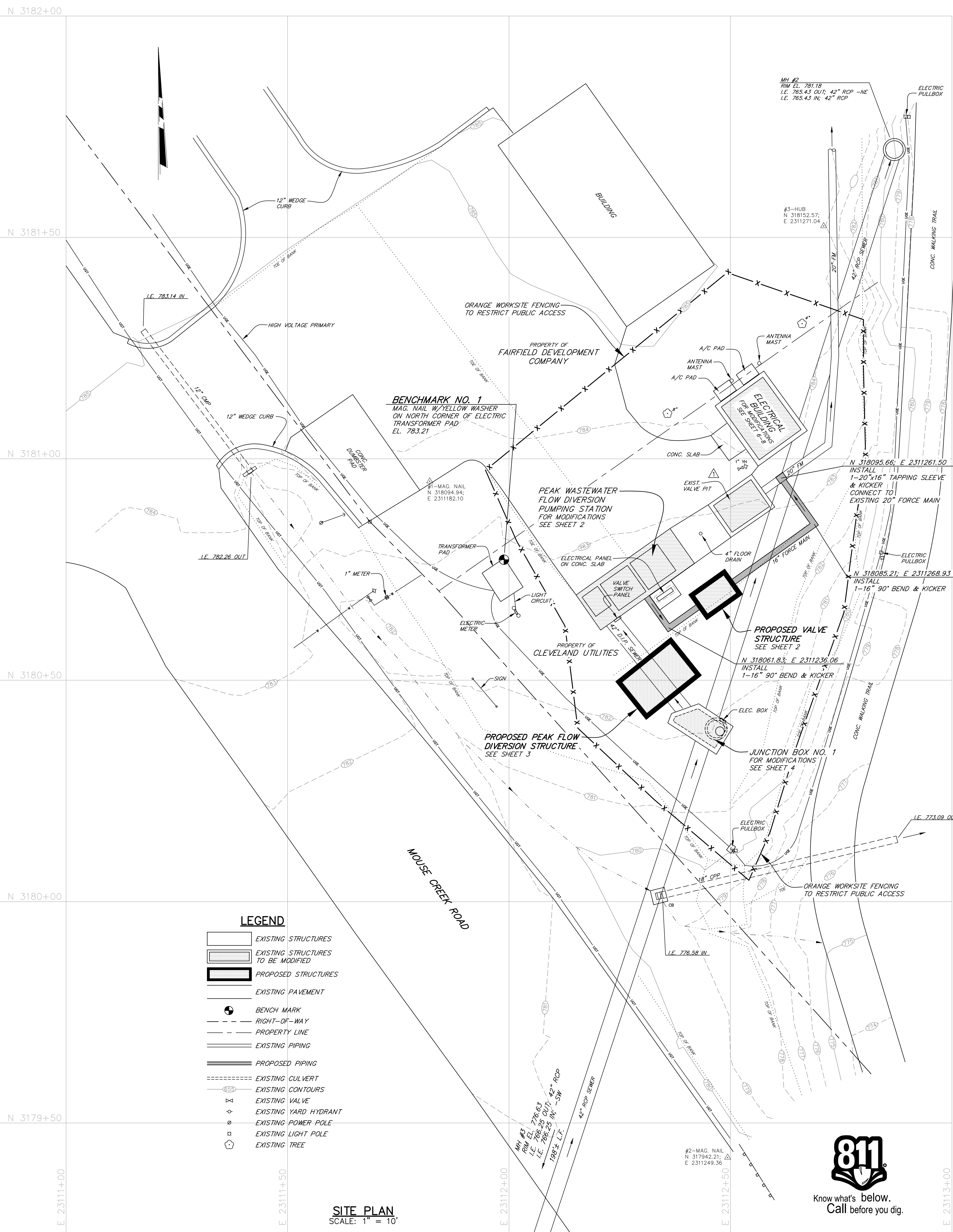
WAUFORD PROJECT NO. 4626

PRE-BID CONFERENCE: TUESDAY, APRIL 4, 2017 10:00 A.M. EASTERN TIME

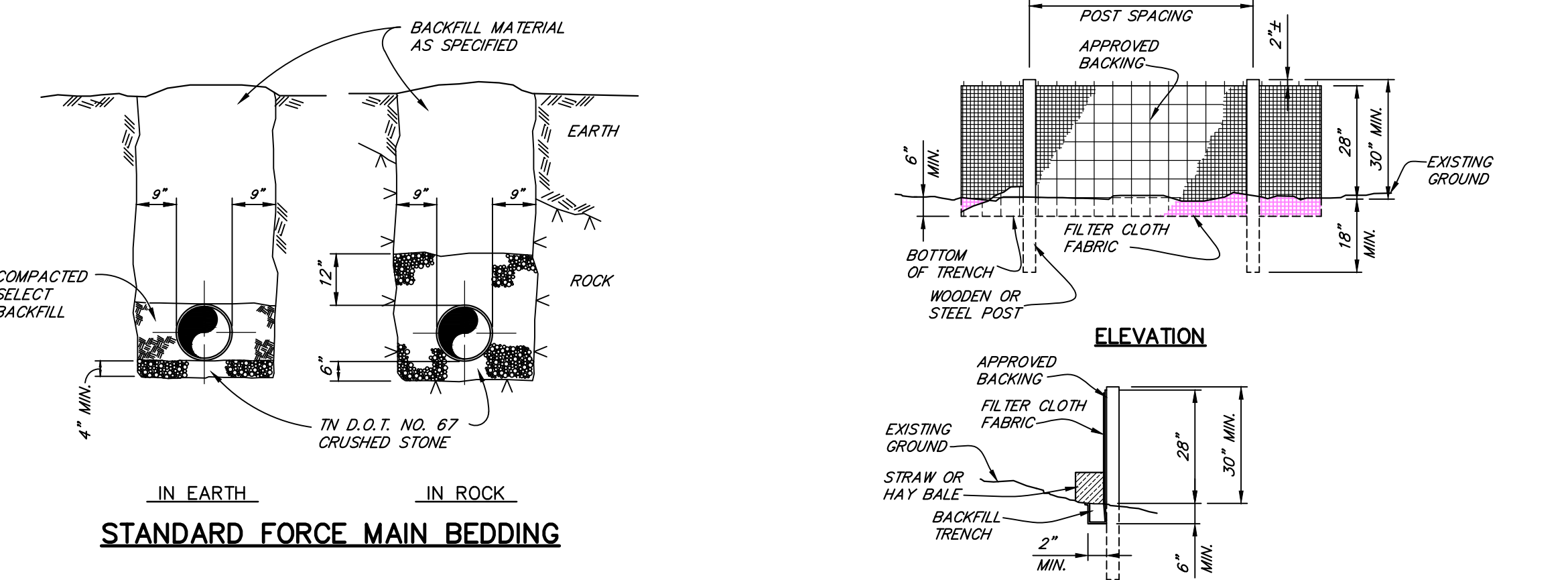
BID OPENING: TUESDAY, APRIL 11, 2017, 2:00 P.M. EASTERN TIME

Name	Organization	Email or Phone
Glenn Kring	HAREN CONSTRUCTION	cosbore@haren construction.com
Tom McGreevy	PPI	McGreevy73@aol.com (630) 333-3100
Philip Luce	CU	pluce@clevelandutilities.com
Chris Wilds	CU	cwilds@clevelandutilities.com
Greg McCluskey	CU	gmccluskey@clevelandutilities.com
Jay Hoffner	CU	jhoffner@clevelandutilities.com
Brandon Brooks	WRIGHT BROTHERS	bbrooks@wbcci.com
Nick Hobson	Wright Brothers	NHOBSON@WBCCI.COM





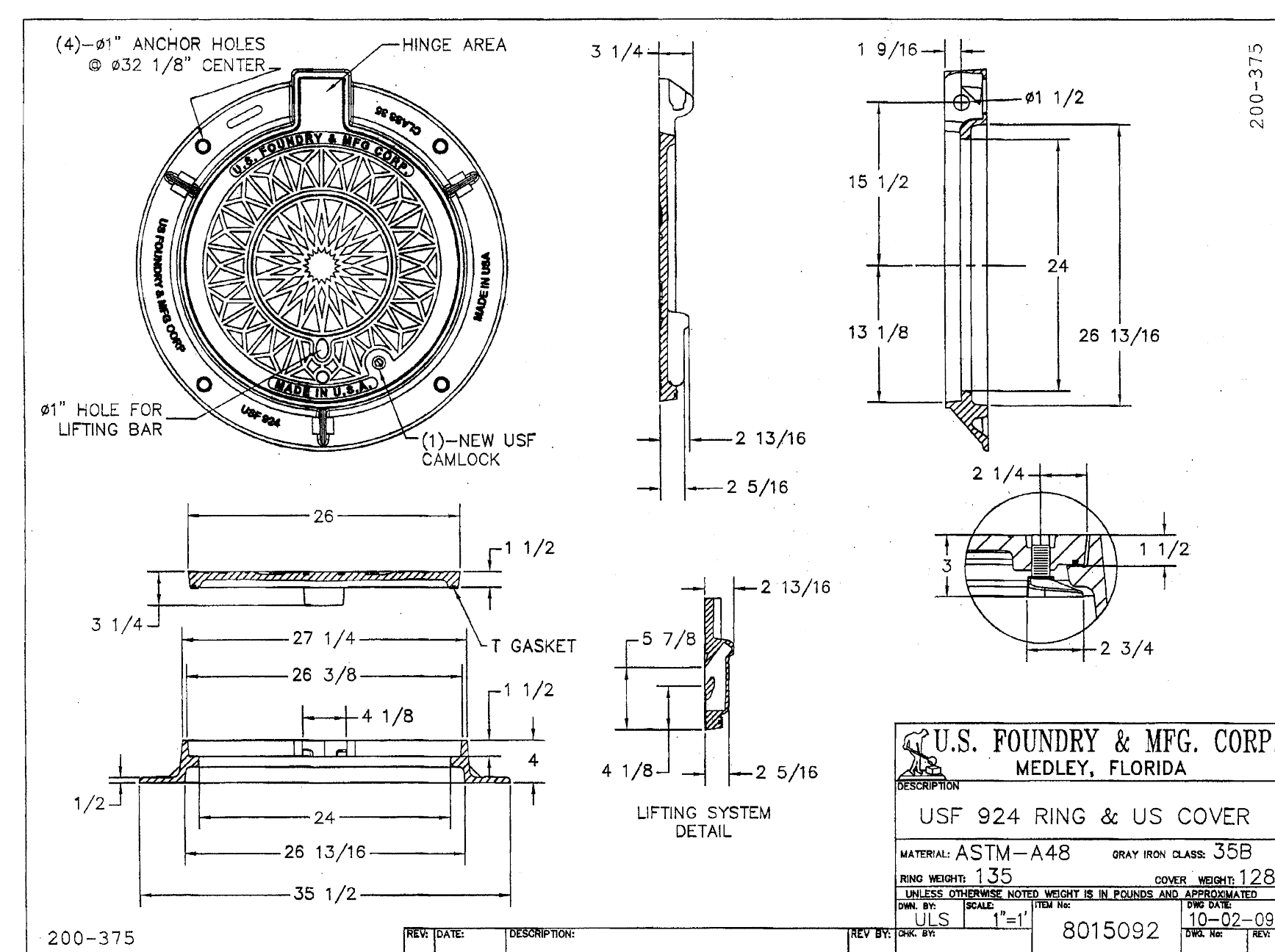
**SITE PLAN**  
SCALE: 1" = 10'



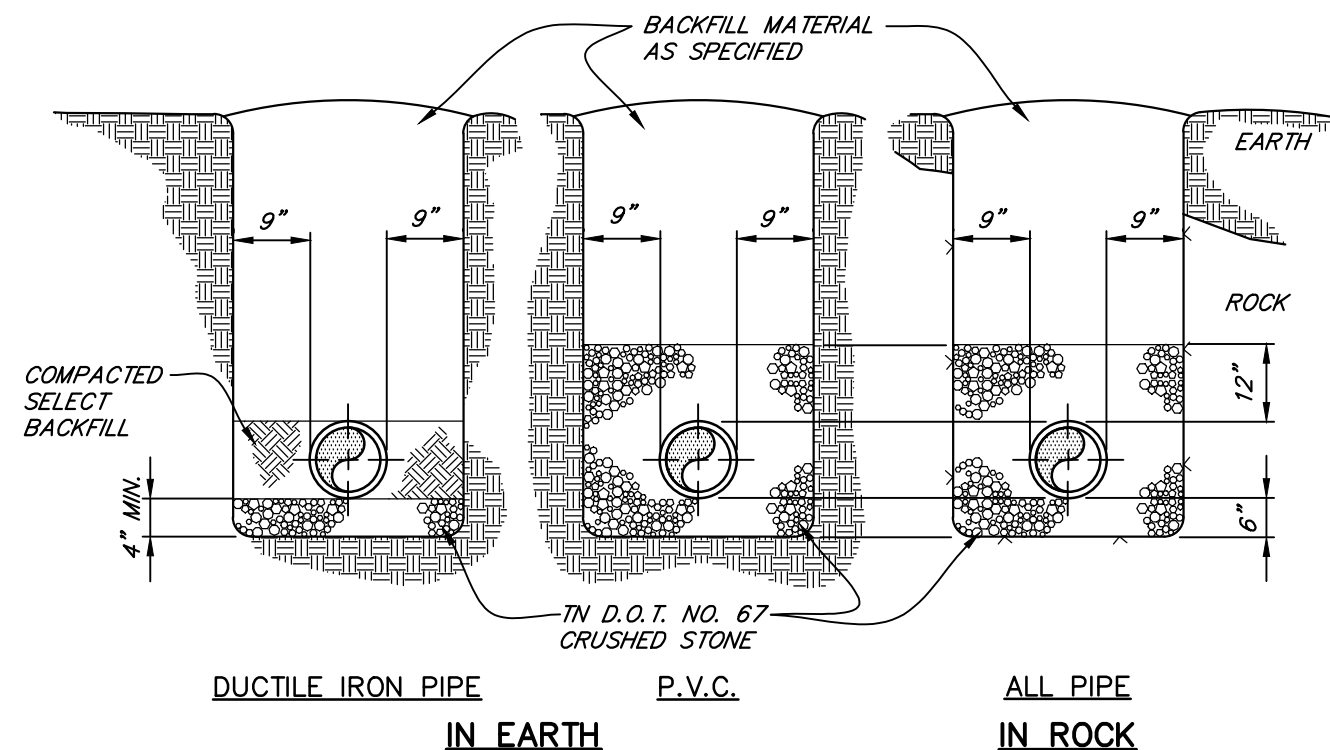
**NOTES:**

1. FILTER CLOTH SHALL HAVE APPROVED BACKING OR A BUILT-IN REINFORCED STRUCTURE AS RECOMMENDED BY THE MANUFACTURER TO SUPPORT THE FILTER CLOTH.
2. A PREASSEMBLED SILT FENCE MEETING THE REQUIREMENTS OF THIS DRAWING IS ACCEPTABLE IN LIEU OF A FIELD CONSTRUCTED SILT FENCE.
3. SEE STORM WATER POLLUTION PREVENTION PLAN (SWPPP) IN SPECIFICATIONS FOR FURTHER DETAILS AND REQUIREMENTS.

**STANDARD TEMPORARY SILT FENCE**



**STANDARD MANHOLE FRAME & COVER**



**STANDARD SEWER LINE BEDDING**

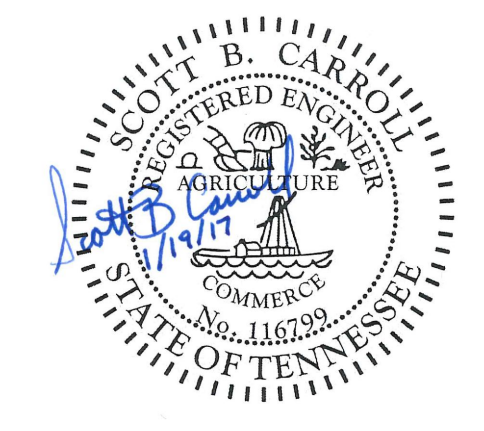
**GENERAL NOTES:**

1. THE CONTRACTOR SHALL BE STRICTLY AND SOLELY LIABLE FOR ANY FINES LEVIED BY ANY REGULATORY AGENCY DUE TO VIOLATION OF WATER QUALITY REGULATIONS CAUSED BY CONSTRUCTION ACTIVITIES. THE CONTRACTOR SHALL USE ALL NECESSARY TEMPORARY WATER POLLUTION CONTROL MEANS AS SPECIFIED TO PREVENT TRANSPORT OF SEDIMENT INTO THOSE WATERWAYS AT NO ADDITIONAL COST TO THE OWNER.
2. SEE SECTION 1, PARAGRAPH 2 EXECUTION AND COORDINATION OF THE WORK OF THE DETAILED SPECIFICATIONS FOR DESCRIPTION OF REQUIREMENTS FOR OPERATION OF EXISTING FACILITIES DURING CONSTRUCTION.
3. COORDINATES GENERALLY REFER TO OUTSIDE CORNERS AND/OR CENTER OF STRUCTURES. REFER TO PLANS OF EACH STRUCTURE FOR MORE PRECISE LOCATION INFORMATION.
4. ALL SLABS ON GRADE SHALL HAVE A 4 MIL VAPOR BARRIER AS DESCRIBED IN SECTION 3 OF THE DETAILED SPECIFICATIONS.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR TEMPORARILY REROUTING ANY EXISTING SITE PIPING HE DISTURBS WHICH IS NECESSARY FOR THE NORMAL OPERATION OF THE EXISTING FACILITIES.
6. THE CONTRACTOR SHALL INSTALL ALL PIPELINES IN STRICT ACCORDANCE WITH THE DEPTH OF COVER, THRUST BLOCK DETAILS AND RESTRAINED JOINT INSTALLATION REQUIREMENTS DEPICTED ON THESE PLANS AND DESCRIBED IN THE DETAILED SPECIFICATIONS.
7. BASED ON INFORMATION DEPICTED ON FLOOD INSURANCE RATE MAP, CITY OF CLEVELAND, TENNESSEE, BRADLEY COUNTY, COMMUNITY - PANEL NUMBER 470015 0001 D PUBLISHED BY THE FEDERAL EMERGENCY MANAGEMENT AGENCY BEARING AN APRIL 2, 1993 MAP REVISED DATE, PORTIONS OF THE PROJECT SITE(S) ARE LOCATED WITHIN A "SPECIAL FLOOD HAZARD AREA INUNDED BY 100-YEAR FLOOD" OR "OTHER FLOOD AREAS".
8. THE LOCATIONS AND DEPTHS OF EXISTING UNDERGROUND UTILITIES DEPICTED ON THESE PLANS HAVE NOT BEEN VERIFIED. THE LOCATIONS AND DEPTHS OF ALL EXISTING UNDERGROUND UTILITIES SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO THE CONTRACTOR COMMENCING CONSTRUCTION. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY APPARENT DISCREPANCIES OR CONFLICTS IMMEDIATELY UPON DISCOVERY.
9. FOR EXISTING UTILITY LOCATIONS, THE CONTRACTOR SHALL CONTACT TENNESSEE "ONE-CALL" AT 1-800-351-1111, AS WELL AS ALL UTILITY OWNERS WITH FACILITIES LOCATED IN THE VICINITY OF THE PROJECT THAT ARE NOT MEMBERS OF THE TENNESSEE "ONE-CALL" SYSTEM, AT LEAST 72 BUSINESS HOURS IN ADVANCE OF BEGINNING EXCAVATION. THE CONTRACTOR SHALL COMPLY WITH THE REQUIREMENTS OF TENNESSEE CODE ANNOTATED (TCA) 65-31-101 CONCERNING THE RESPONSIBILITIES ASSOCIATED WITH EXCAVATION PROCEDURES TO PREVENT DAMAGE TO UNDERGROUND UTILITIES.
10. THE NAMES OF PROPERTY OWNERS, LOCATIONS OF PROPERTY LINES AND LOCATIONS OF STREET AND ROAD RIGHTS-OF-WAY DEPICTED ON THESE PLANS WERE OBTAINED FROM THE BRADLEY COUNTY TAX MAPS, THE BRADLEY COUNTY TAX ASSESSOR, PLANS PROVIDED BY THE TENNESSEE DEPARTMENT OF TRANSPORTATION AND PROPERTY SURVEYS PROVIDED BY THE OWNER. THIS INFORMATION IS GENERAL IN NATURE AND J.R. WAUFORD AND COMPANY, CONSULTING ENGINEERS, INC. MAKES NO CLAIM TO THE ACCURACY OF THIS INFORMATION.
11. THE CONTRACTOR SHALL RESTRICT CONSTRUCTION ACTIVITIES TO WITHIN THE LIMITS OF CONSTRUCTION AS DESCRIBED AT SECTION 1 OF THE DETAILED SPECIFICATIONS. ANY AREA DISTURBED BY THE CONTRACTOR OUTSIDE THE LIMITS OF CONSTRUCTION DURING THE PERFORMANCE OF THE SCOPE OF WORK DESCRIBED AT THE DETAILED SPECIFICATIONS OR DEPICTED ON THESE PLANS SHALL BE REPAIRED BY THE CONTRACTOR AT HIS EXPENSE. THE CONTRACTOR SHALL INSTALL ORANGE WORKSITE SAFETY FENCING ALONG THE BOUNDARY BETWEEN THE SITE AND THE WALKING TRAIL TO PREVENT PUBLIC ACCESS.
12. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPAIR AND/OR REPLACEMENT IN KIND OF ALL EXISTING DRAINAGE CULVERTS AND STRUCTURES AND ALL BURIED UTILITY DISTRIBUTION TRANSMISSION AND SERVICE PIPELINES DISTURBED DURING THE PERFORMANCE OF THE SCOPE OF WORK DEPICTED ON THESE PLANS. NO PAYMENT WILL BE MADE TO THE CONTRACTOR FOR THIS REPAIR AND/OR REPLACEMENT WORK.
13. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR THE DISPOSAL OF WASTE MATERIALS GENERATED DURING CONSTRUCTION. THE OWNER SHALL HAVE RIGHTS TO ALL SALVAGEABLE MATERIALS. REFER TO SECTION 1 OF THE DETAILED SPECIFICATIONS.
14. ALL FITTINGS SHALL UTILIZE RESTRAINED GLANDS EQUAL TO SERIES 1100 MEGALUG BY EBAA IRON, INC. IN LIEU OF CONCRETE KICKERS.
15. BYPASS PIPING IS NOT A SEPARATE PAY ITEM. THE CONTRACTOR SHALL COMPLY WITH THE BYPASS PIPING REQUIREMENTS OF SECTION 5 OF THE DETAILED SPECIFICATIONS.

**ENGINEER'S ENVISIONED ORDER OF WORK**

THE CONTRACTOR IS REQUIRED TO DEVISE HIS OWN PLAN OF WORK AS SPECIFIED IN SECTION 1 OF THE DETAILED SPECIFICATIONS. THE FOLLOWING ORDER OF WORK IS INTENDED TO BE GENERAL IN NATURE AND DOES NOT INCLUDE EVERY DETAIL. IT IS SUGGESTED FOR CLARITY SAKE AND NOT DICTATED.

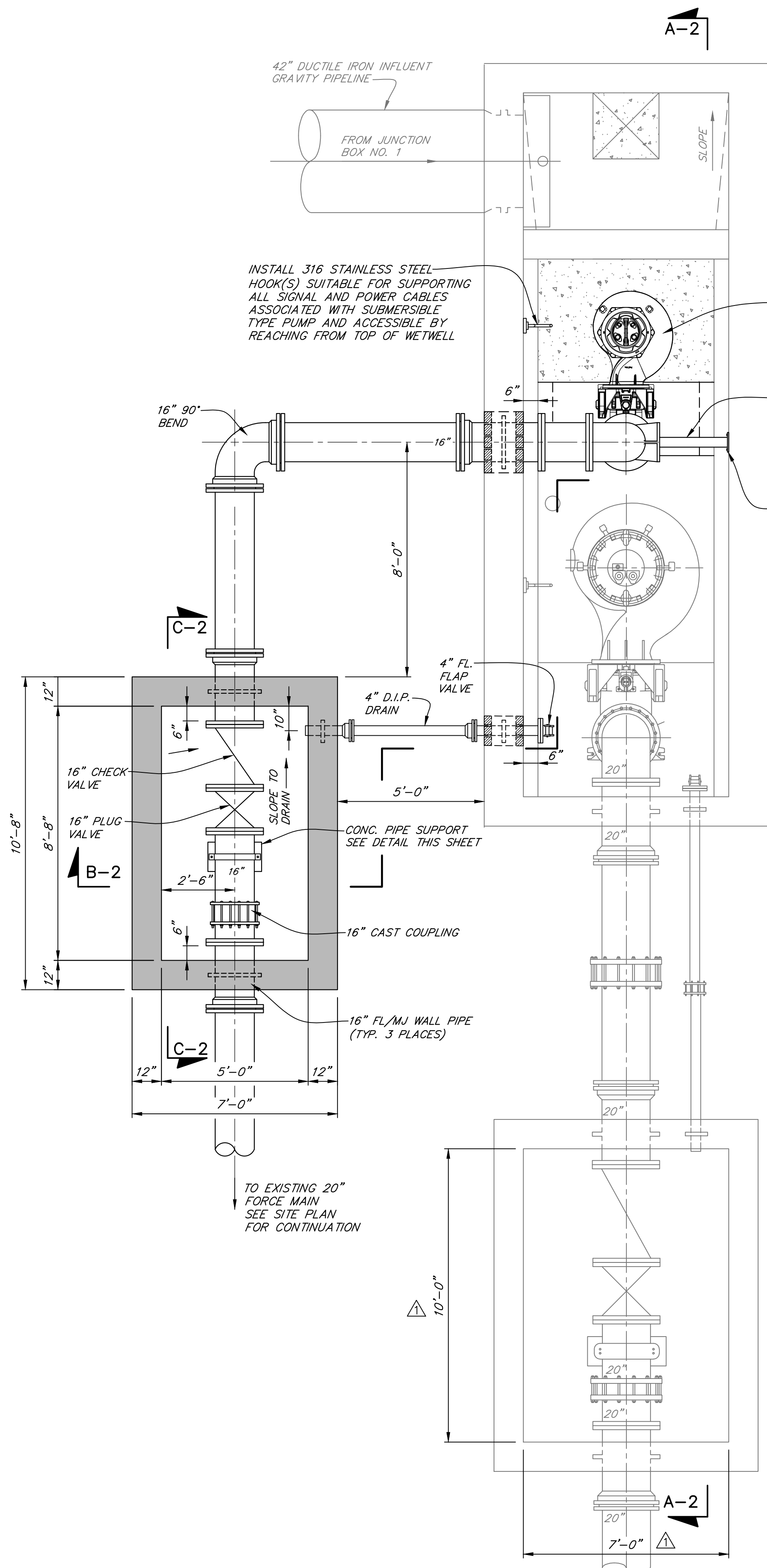
1. EXCAVATE 42-INCH SEWER BETWEEN JUNCTION BOX NO. 1 AND PEAK WASTEWATER FLOW DIVERSION PUMPING STATION.
2. FORM AND PLACE CONCRETE FOR BASE SLAB AND EXTERIOR WALLS OF DIVERSION STRUCTURE.
3. REMOVE TOP OF JUNCTION BOX NO. 1 AND SET UP BYPASS PUMPING AROUND JUNCTION BOX NO. 1.
4. FORM AND PLACE EXTERIOR WALLS AND TOP SLAB FOR JUNCTION BOX NO. 1 AND INSTALL SLIDE GATE.
5. OBTAIN APPROVAL OF THE 3-DAY CONCRETE COMPRESSIVE STRENGTH FOR JUNCTION BOX NO. 1 FROM THE ENGINEER.
6. PLUG 42-INCH SEWER BETWEEN JUNCTION BOX NO. 1 AND PEAK WASTEWATER FLOW DIVERSION PUMPING STATION.
7. REMOVE BYPASS PUMPING AROUND JUNCTION BOX NO. 1, MAKE CONNECTION TO 20-INCH FORCE MAIN, AND SET UP BYPASS PUMPING FROM JUNCTION BOX NO. 1 TO THE 20-INCH FORCE MAIN.
8. REMOVE 42-INCH SECTION OF PIPE FROM DIVERSION STRUCTURE.
9. FORM AND PLACE CONCRETE FOR INTERIOR WALLS OF DIVERSION STRUCTURE AND INSTALL WEIR GATES. WEIR GATES SHALL BE ADJUSTED TO THEIR LOWEST POSITION.
10. INSTALL PUMP AND PIPING INSIDE THE PEAK WASTEWATER FLOW DIVERSION PUMPING STATION AND TEST PUMP.
11. OBTAIN APPROVAL OF CONCRETE COMPRESSIVE STRENGTH RESULTS FOR THE DIVERSION STRUCTURE FROM THE ENGINEER.
12. REMOVE PLUG AT JUNCTION BOX NO. 1 AND ADJUST WEIR GATES TO THE INITIAL SETTING SHOWN ON THE PLANS.
13. REMOVE BYPASS PUMPING.



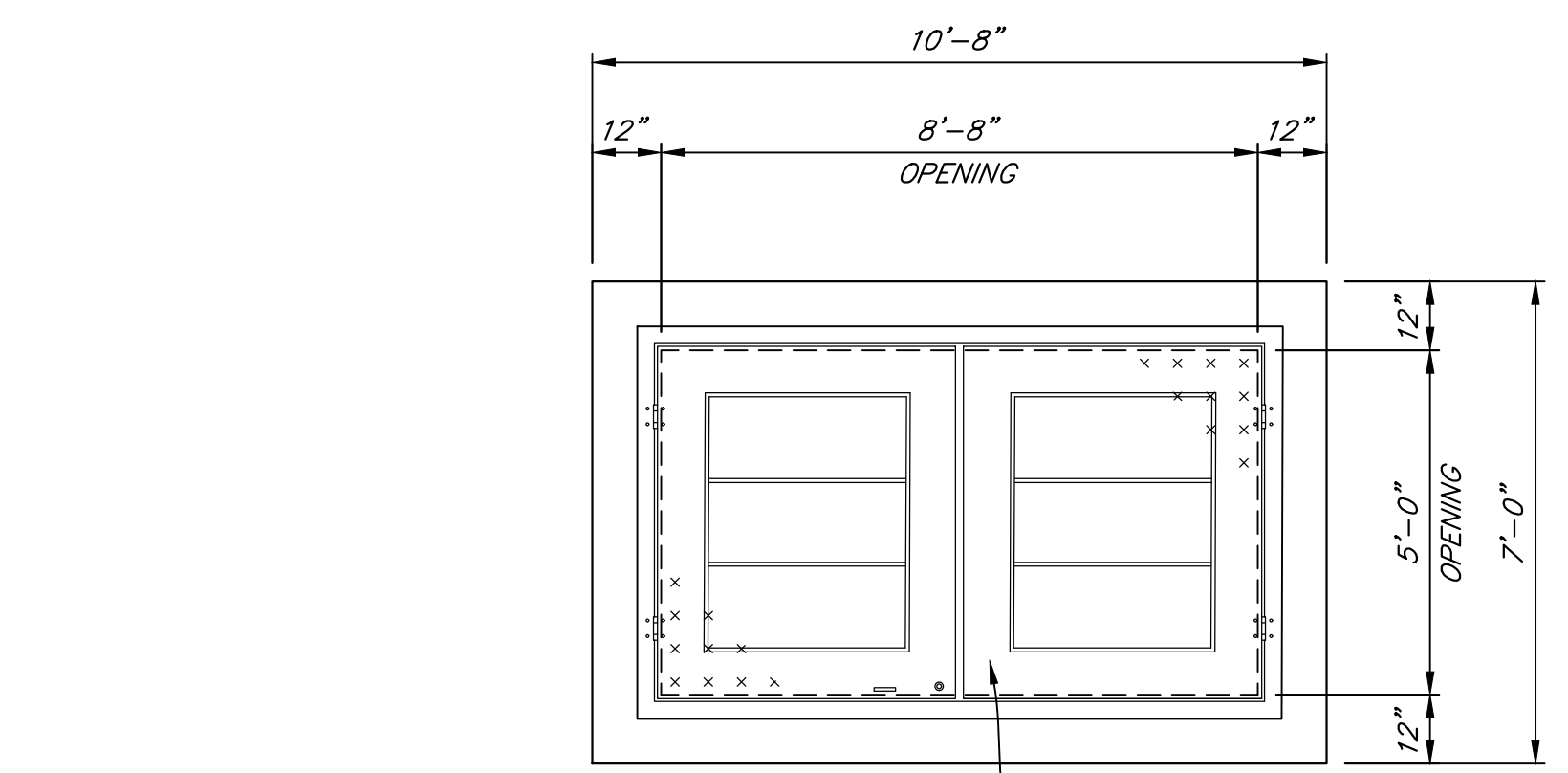
SHEET 1 OF 8	REVISIONS	SEWER SYSTEM IMPROVEMENTS CONTRACT 16-01 PEAK WASTEWATER FLOW DIVERSION PUMPING STATION MODIFICATIONS	DESIGNED SBC
	ADDITIONAL NO. 1 4/5/17 RSS		
SITE PIPING PLAN AND MISCELLANEOUS PIPING DETAILS		FOR CLEVELAND UTILITIES CLEVELAND, TENNESSEE	
SCALE 1"=10'	DATE NOV. 2016	DESIGNED SBC	DRAWN RSS
JOB NUMBER 4626	DATE NOV. 2016	CHECKED JGD	DESIGNED SBC

**WAUFORD**  
J. R. Wauford & Company, Consulting Engineers, Inc.  
Bartlett, Tennessee  
(615) 984-9638  
www.jrwaford.com

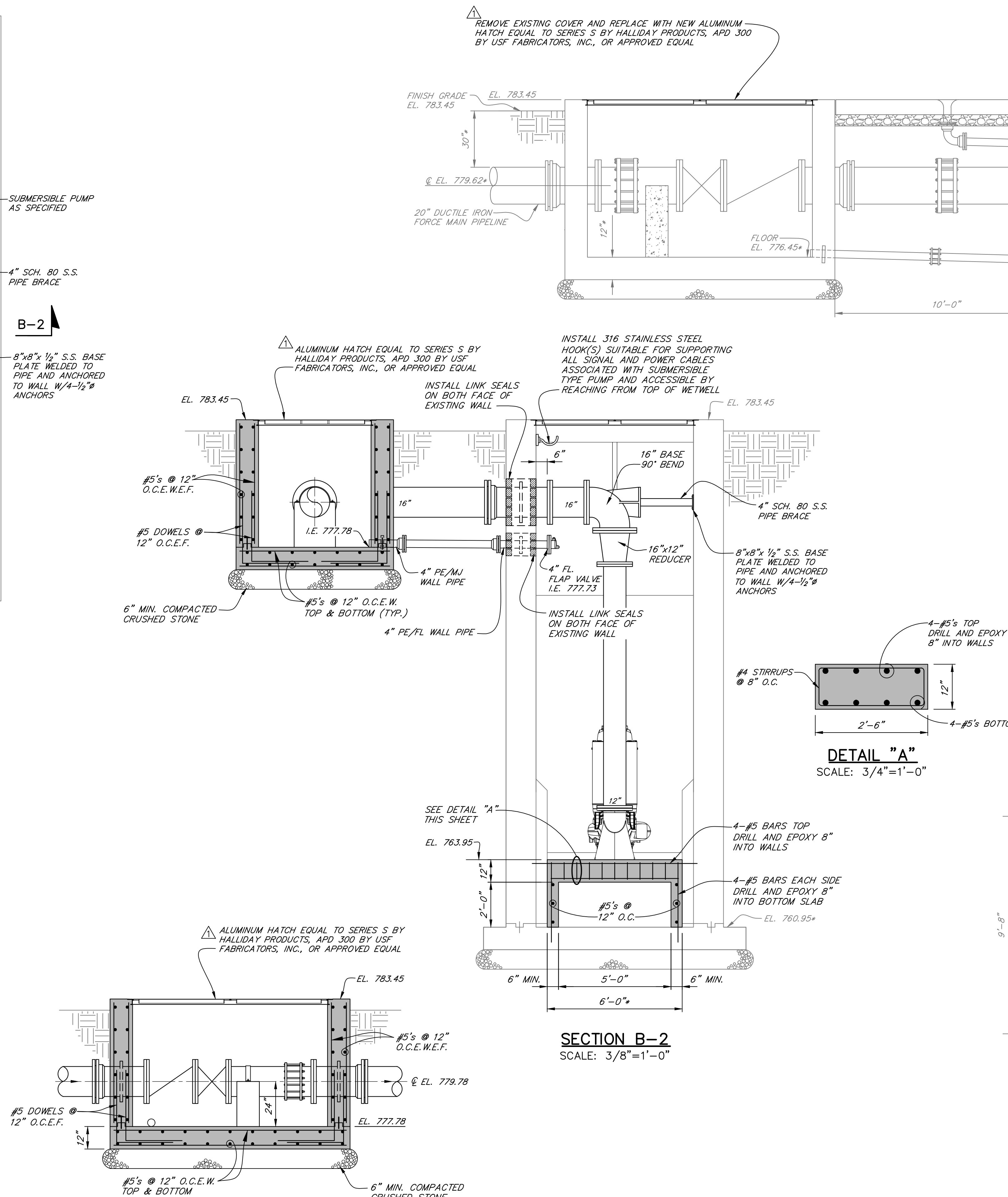




**WALL PLAN**  
SCALE: 3/8"=1'-0"



**VALVE STRUCTURE TOP PLAN**  
SCALE: 3/8"=1'-0"

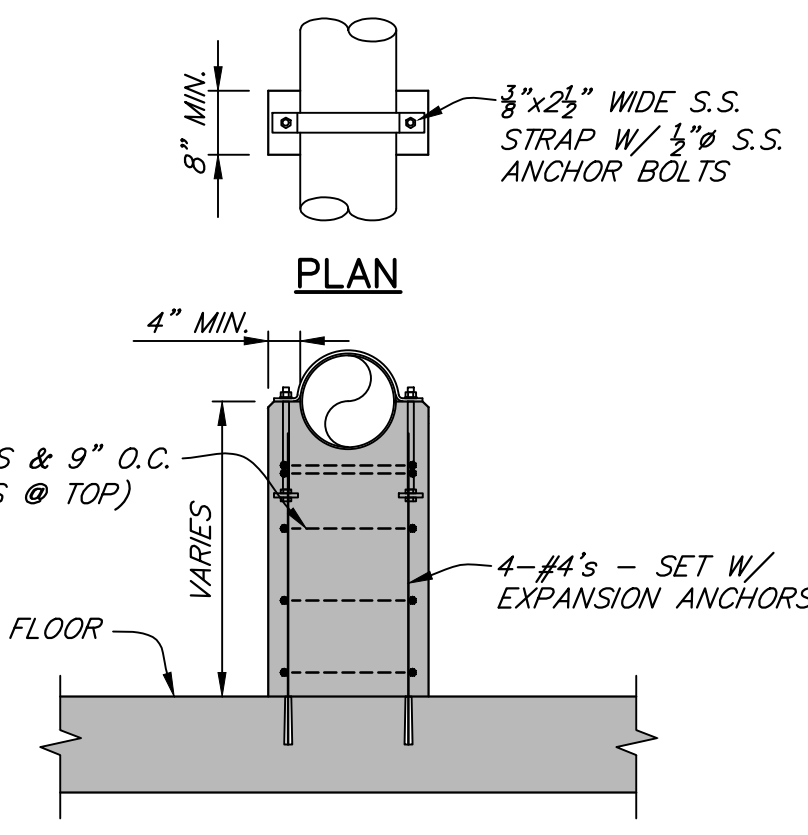


**SECTION A-2**  
SCALE: 3/8"=1'-0"

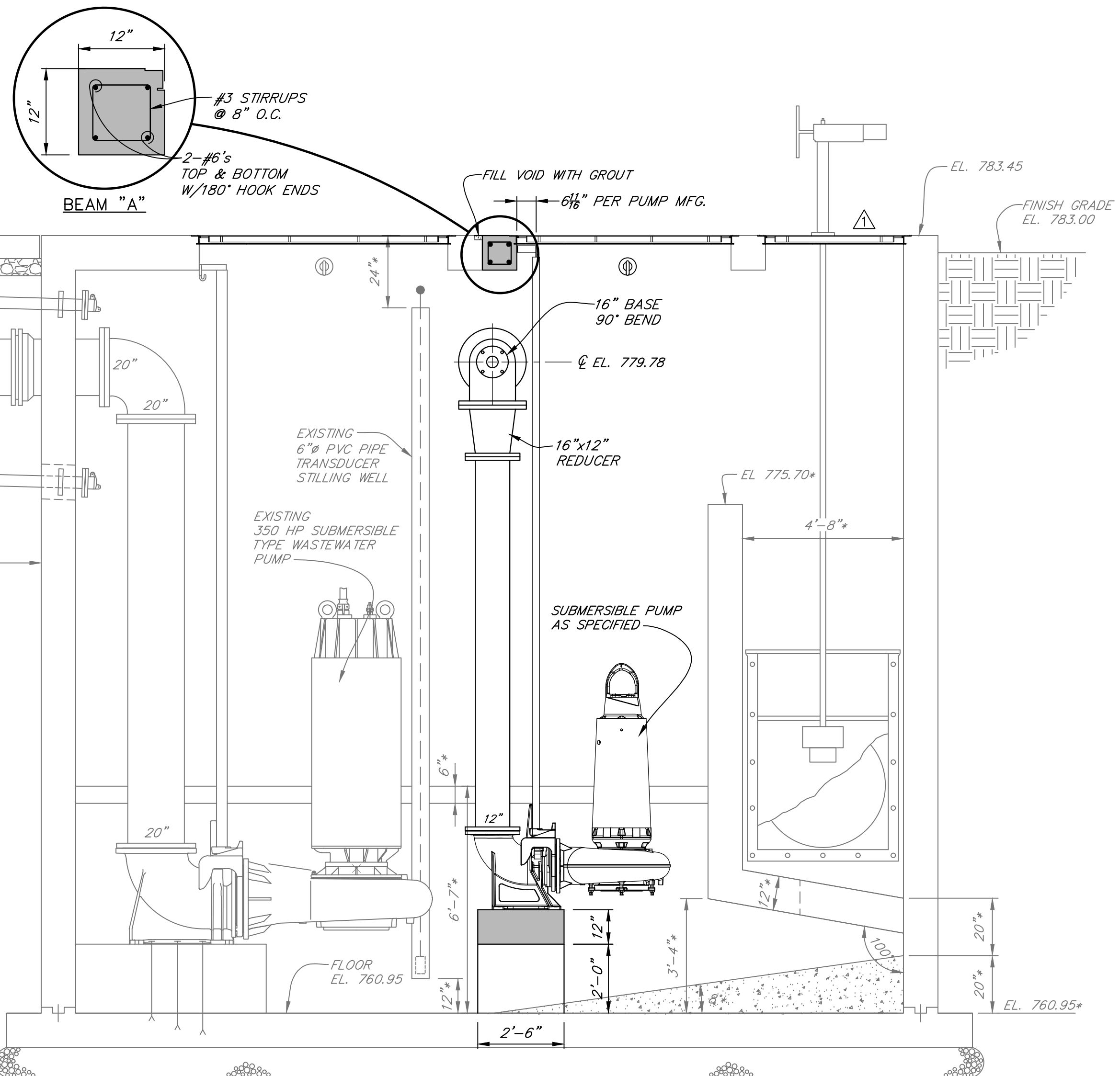
**SECTION B-2**  
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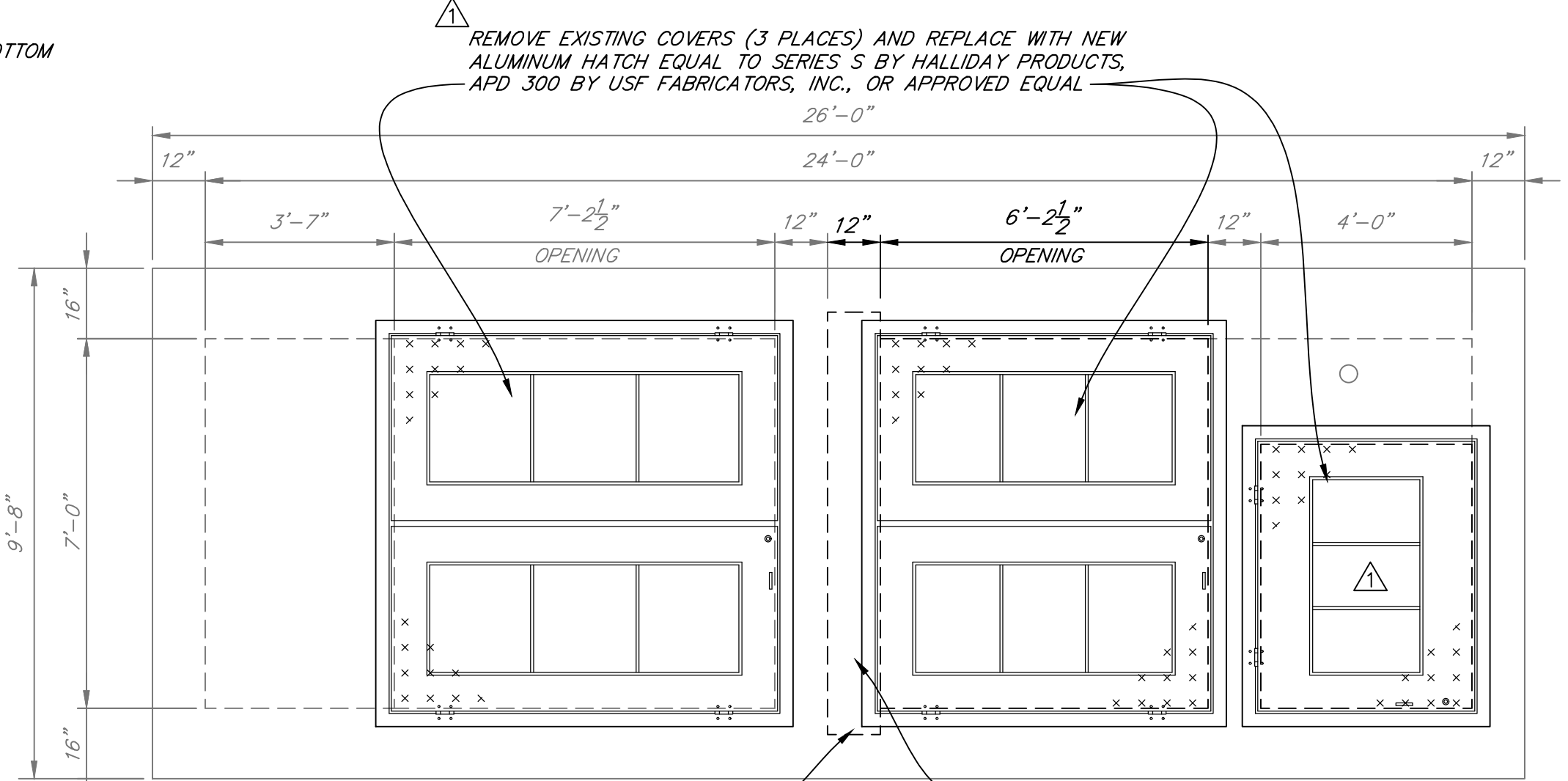
**SECTION C-2**  
SCALE: 3/8"=1'-0"



**PIPE SUPPORT DETAIL**  
SCALE: 1/2"=1'-0"



**SECTION A-2**  
SCALE: 3/8"=1'-0"

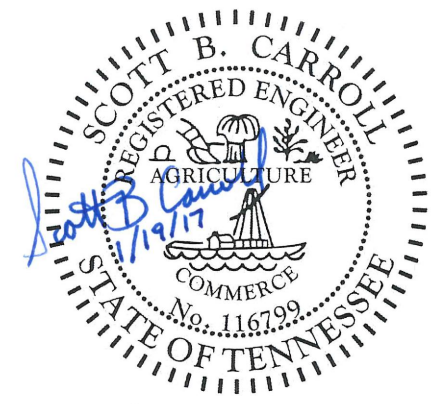


**TOP PLAN**  
SCALE: 3/8"=1'-0"

OPERATIONAL SETTINGS	
PROTOCOL	ELEVATION
TOP WETWELL	783.45
WEIR SETTING	774.0
HIGH WATER ALARM	775.0
LARGE PUMP MAX. SPEED	774.0
LARGE PUMP MIN. SPEED	772.0
SMALL PUMP MAX. SPEED	771.0
SMALL PUMP MIN. SPEED	769.0
ALL PUMPS OFF	767.0
LOW WATER ALARM	766.0
BOTTOM WETWELL	760.95

**CONSTRUCTION NOTES:**

1. SEE "GENERAL NOTES" AND "LEGEND" SHEET 1.
2. \* INDICATES INFORMATION TAKEN FROM EXISTING PLANS - CONTRACTOR SHALL VERIFY.
3. ALL MECHANICAL JOINT SPOOL PIPE AND FITTINGS SHALL UTILIZE RESTRAINED GLANDS EQUAL TO SERIES 1100 MEGALUB BY EBBA IRON.



SHEET **2** OF **8**

REVISIONS  
 Δ ADDENDUM NO. 1  
 4/5/17 RSS

**SEWER SYSTEM IMPROVEMENTS**  
 CONTRACT 16-01 PEAK WASTEWATER FLOW DIVERSION PUMPING STATION MODIFICATIONS

**PEAK WASTEWATER FLOW DIVERSION PUMPING STATION MODIFICATIONS PLANS, SECTIONS AND DETAILS**

FOR  
**CLEVELAND UTILITIES**  
 CLEVELAND, TENNESSEE

SCALE: **WAUFORD**

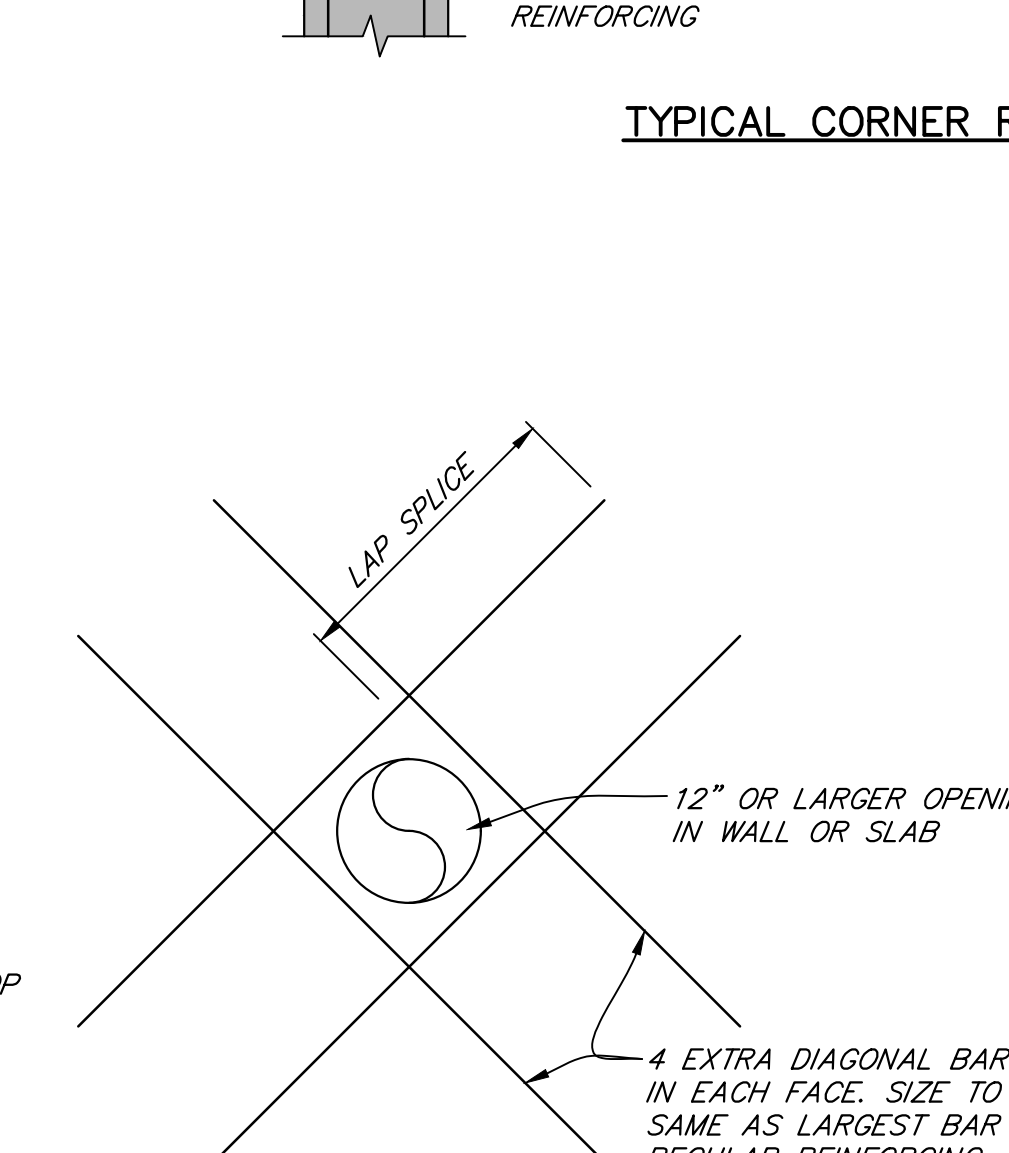
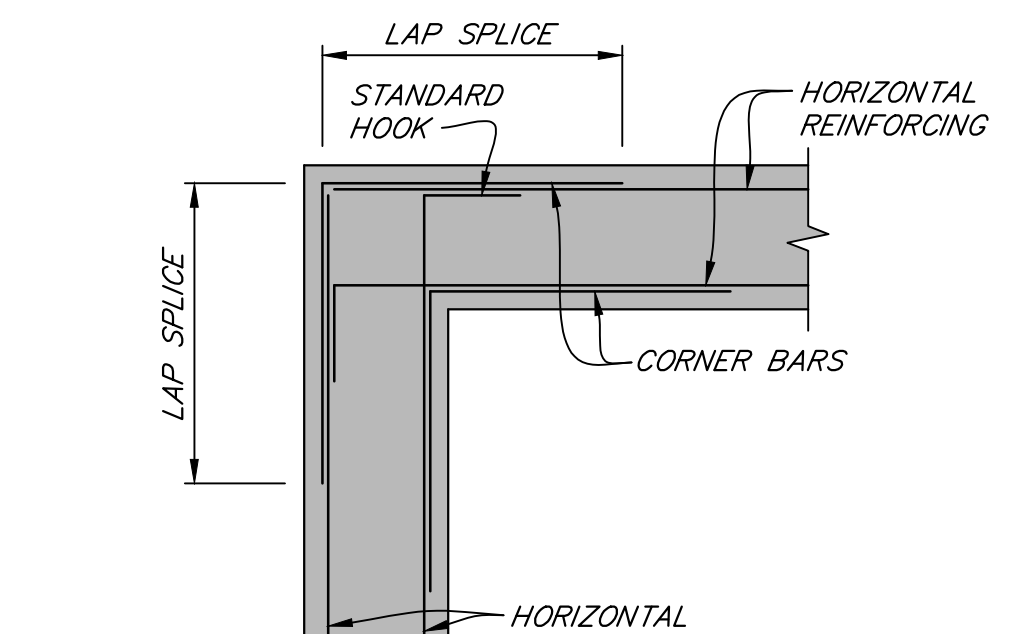
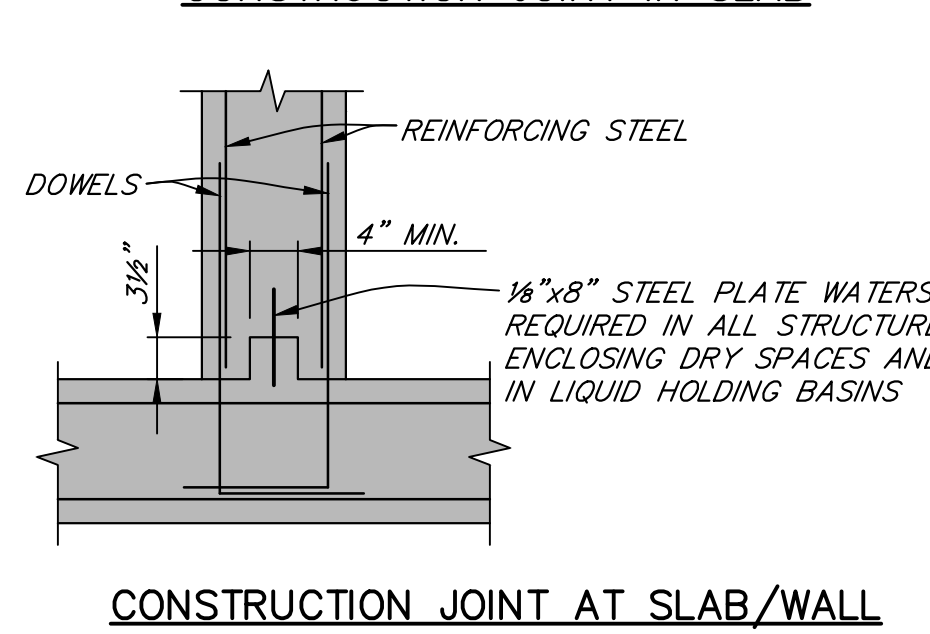
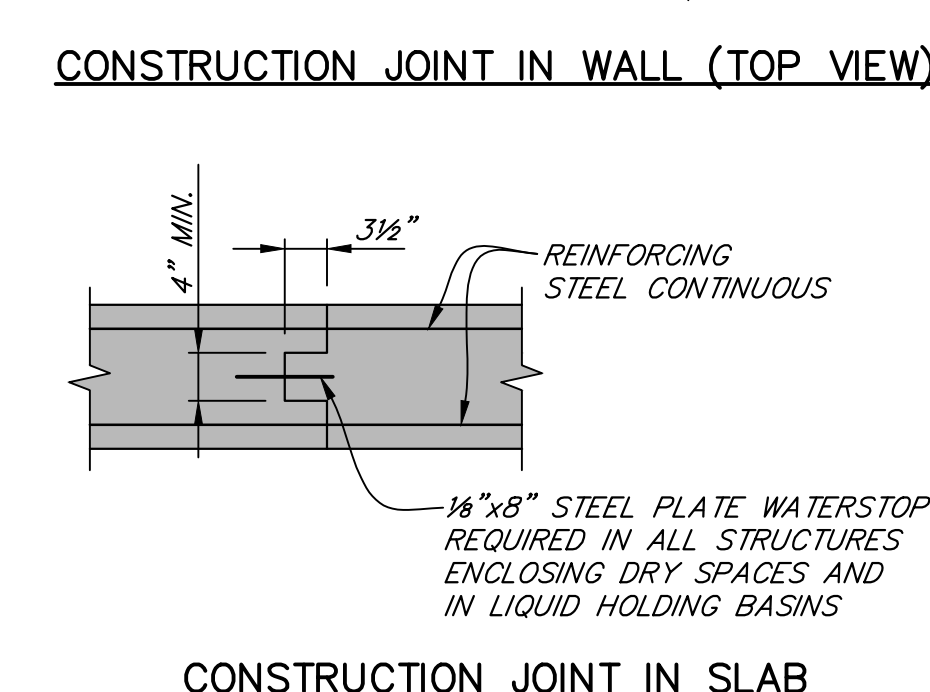
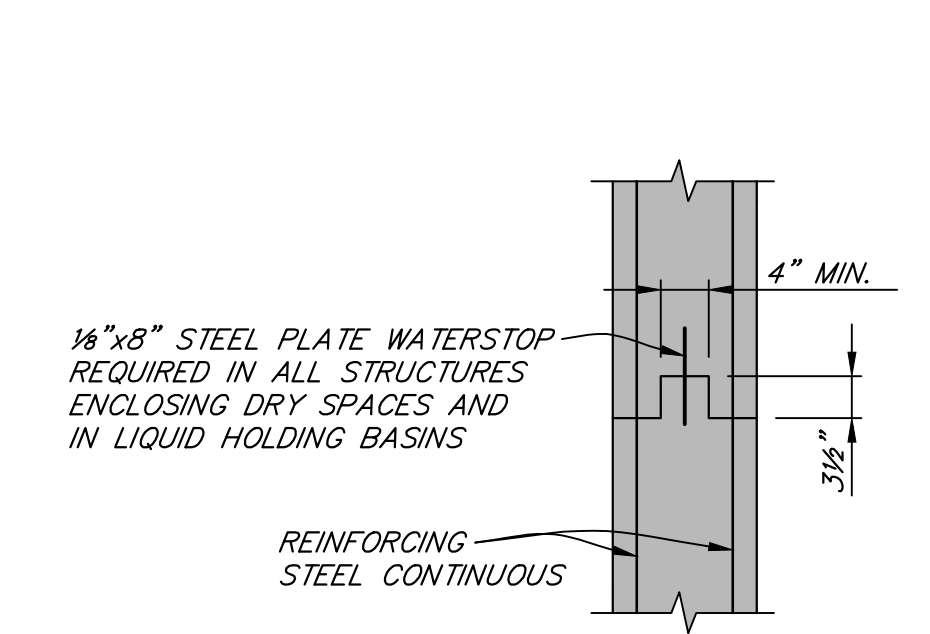
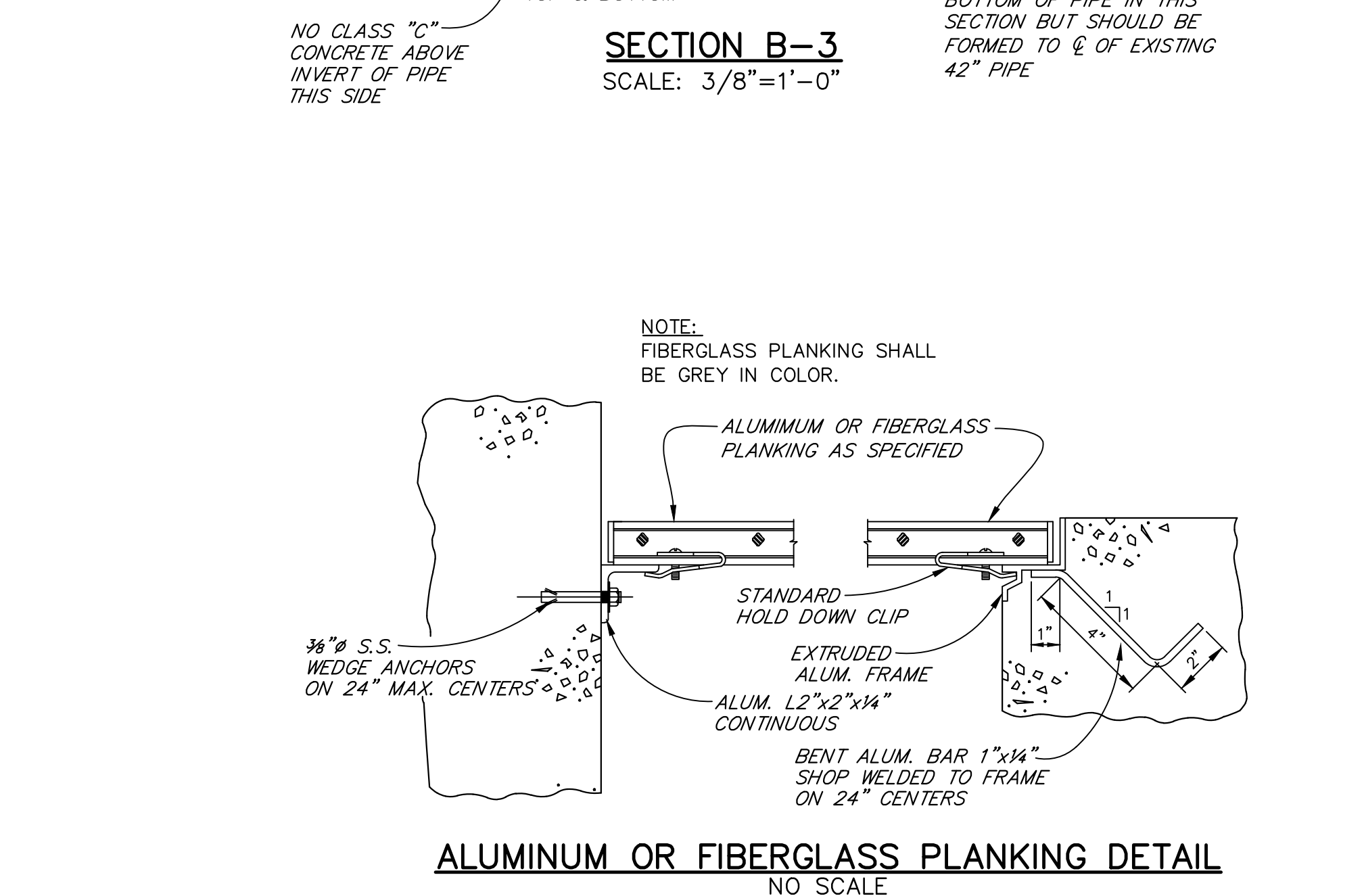
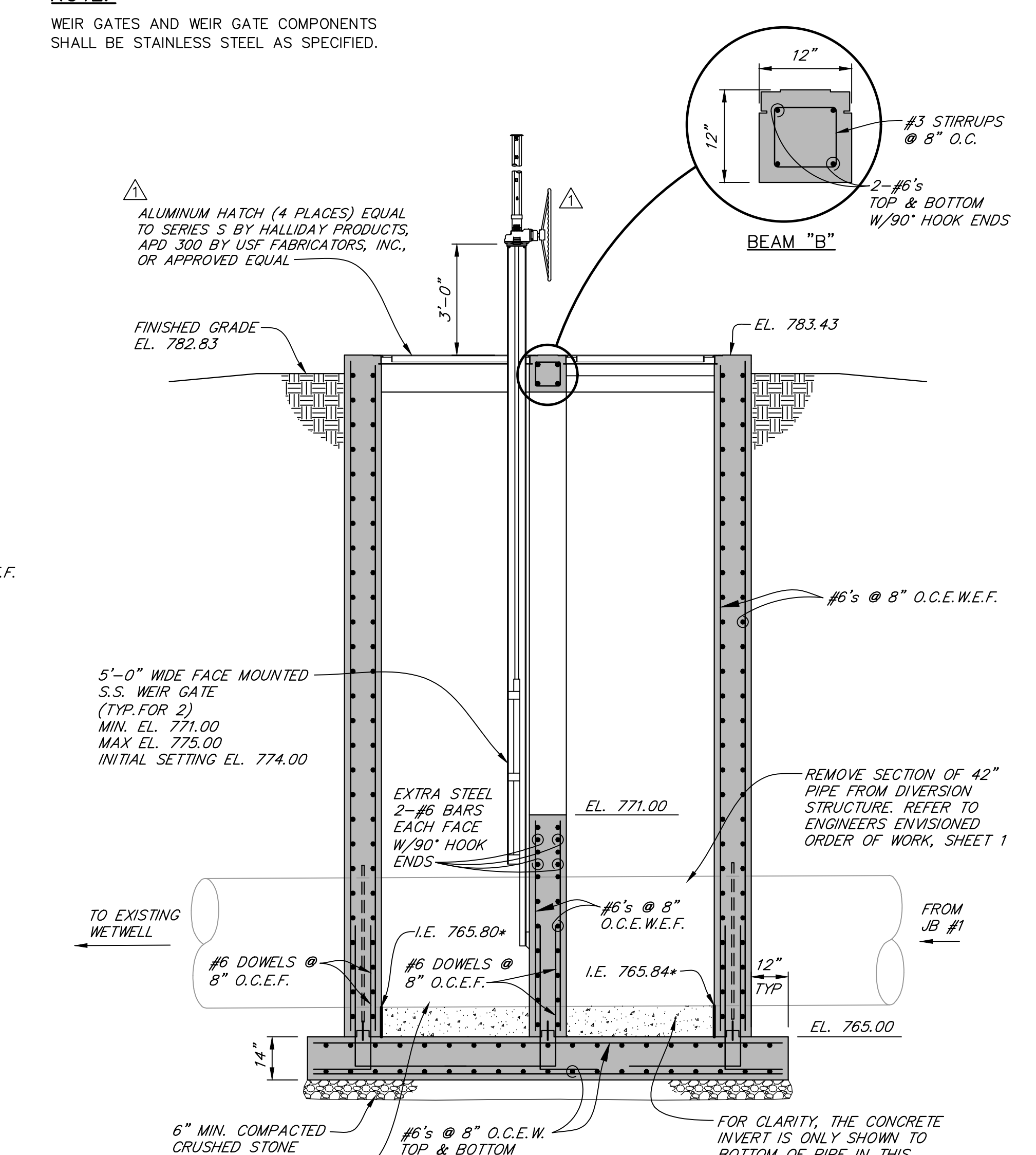
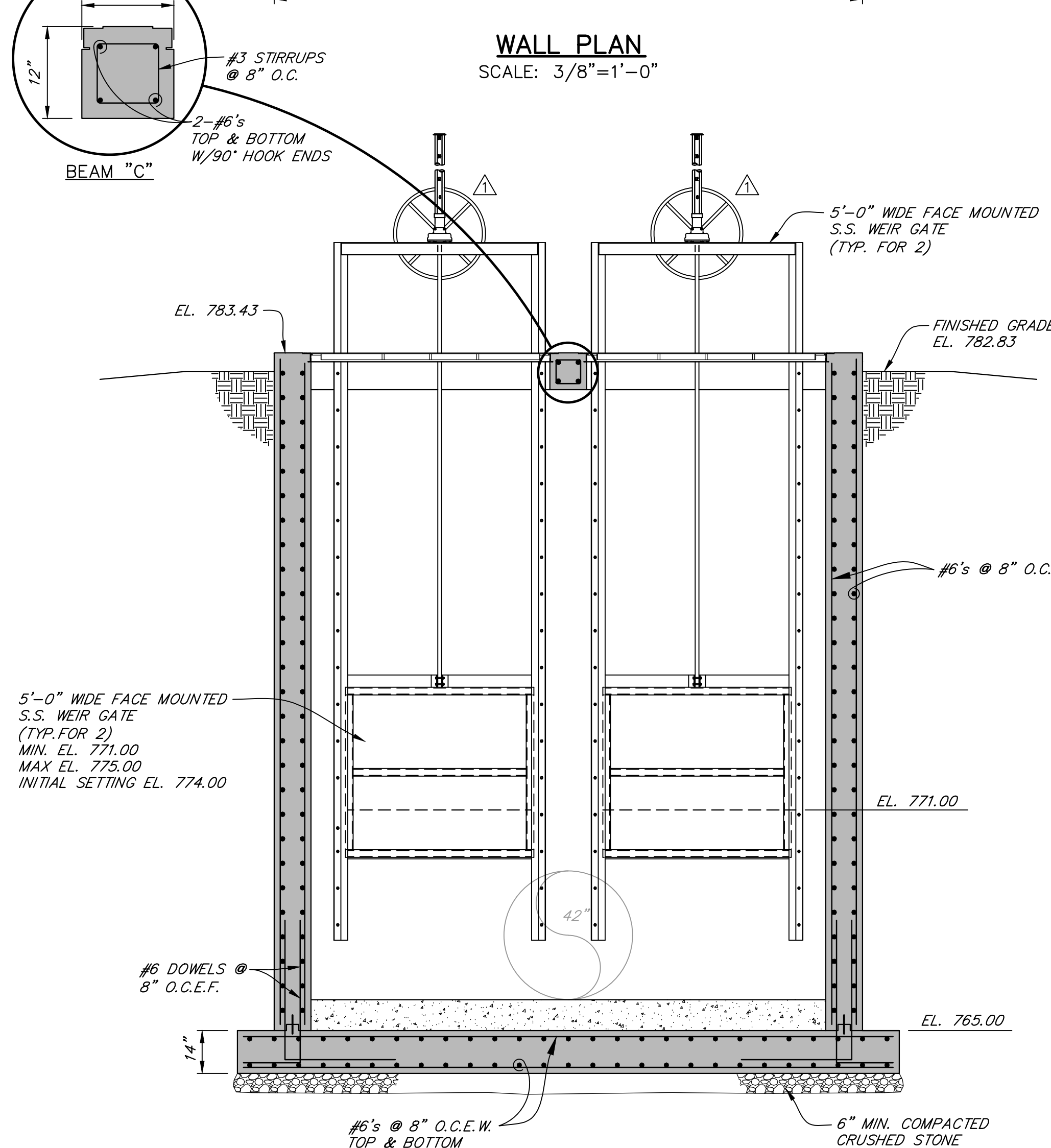
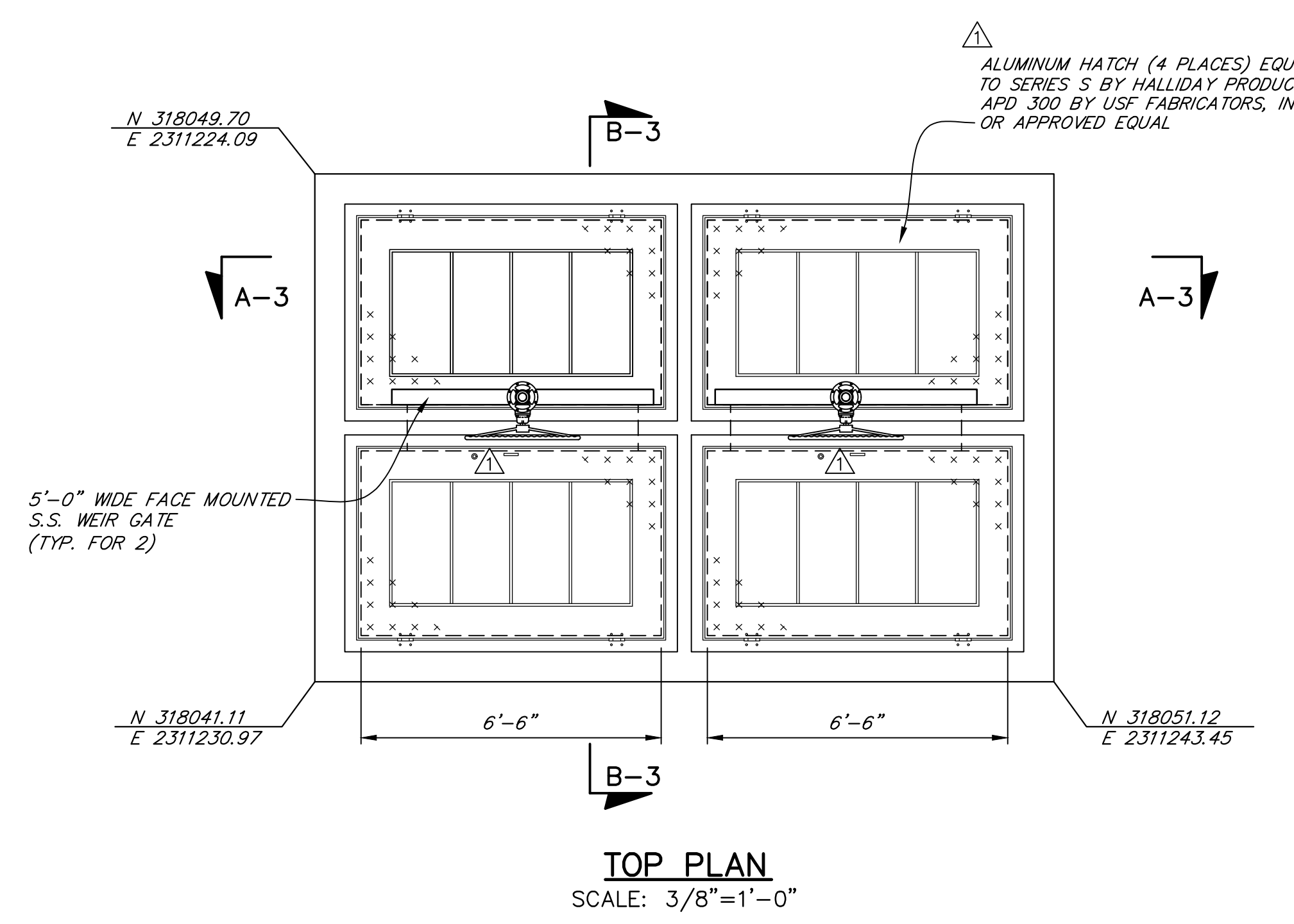
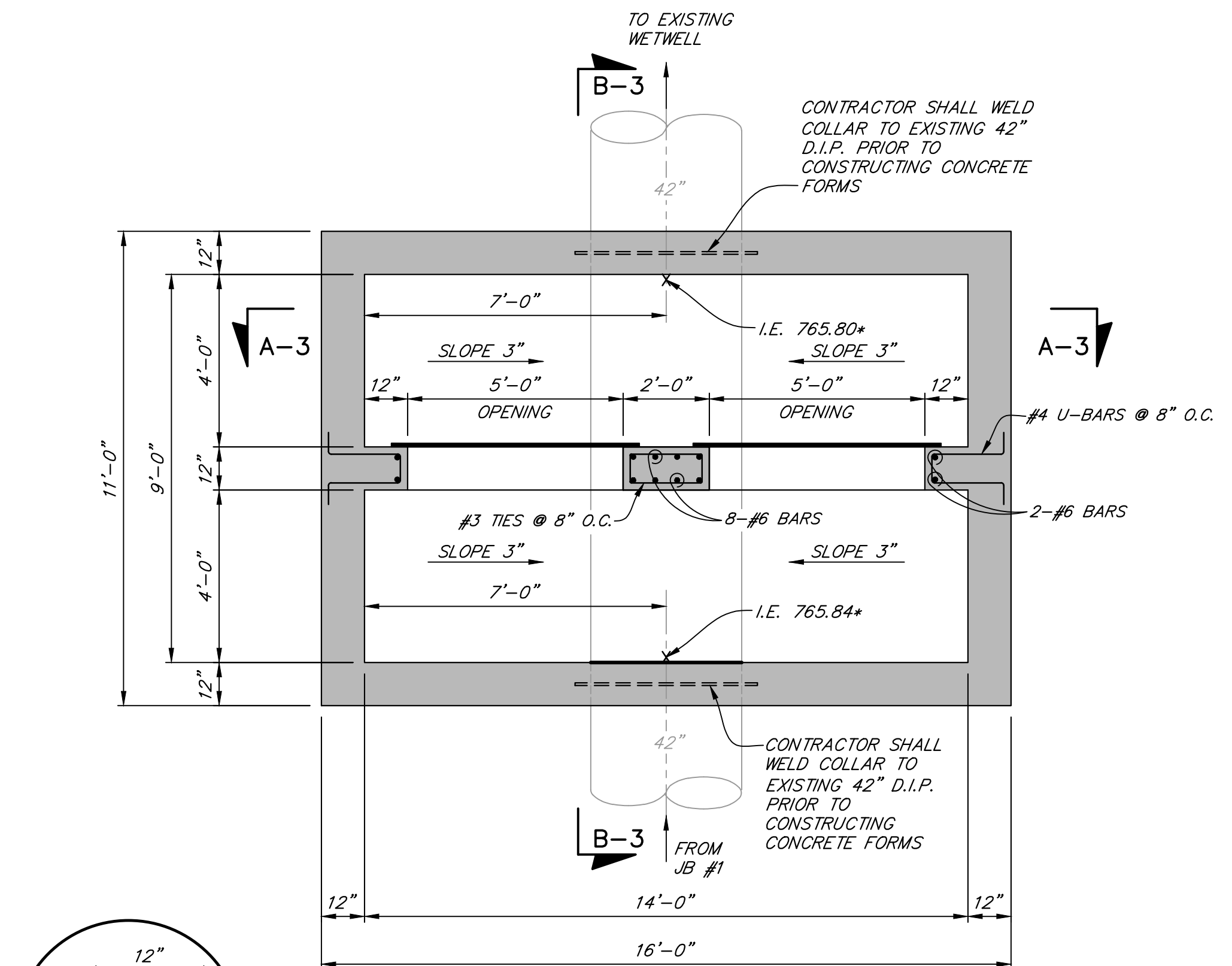
DESIGNED: SBC  
 DRAWN: RSS  
 CHECKED: JGD

J. R. Wauford & Company, Consulting Engineers, Inc.  
 Nashville, Tennessee  
 (615) 984-9638  
 www.jrwaford.com

JOB NUMBER: 4626  
 DATE: NOV. 2016

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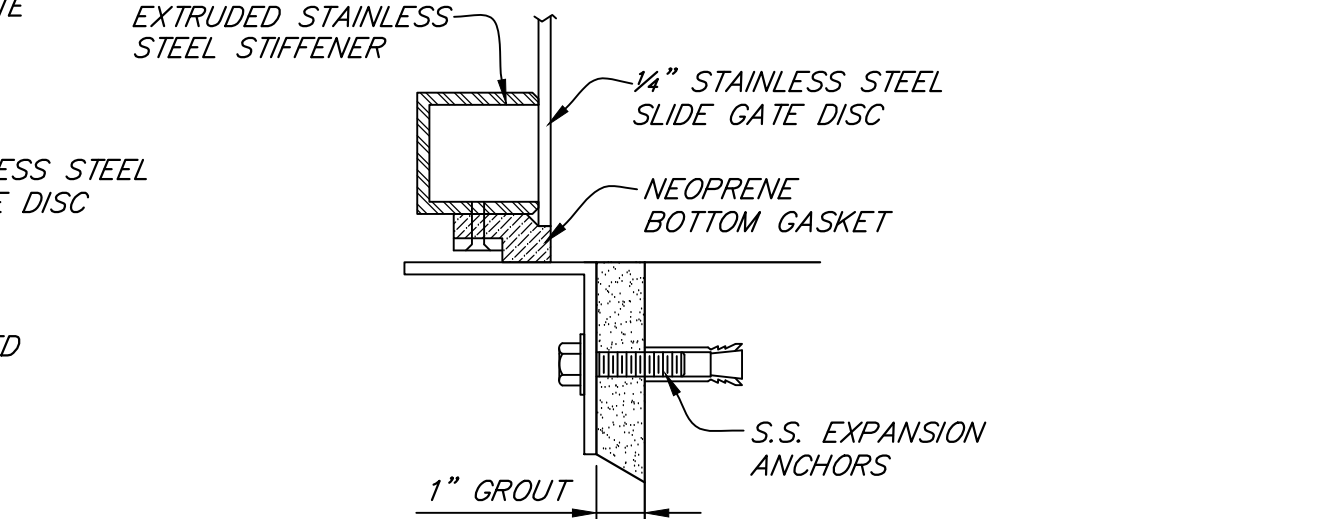
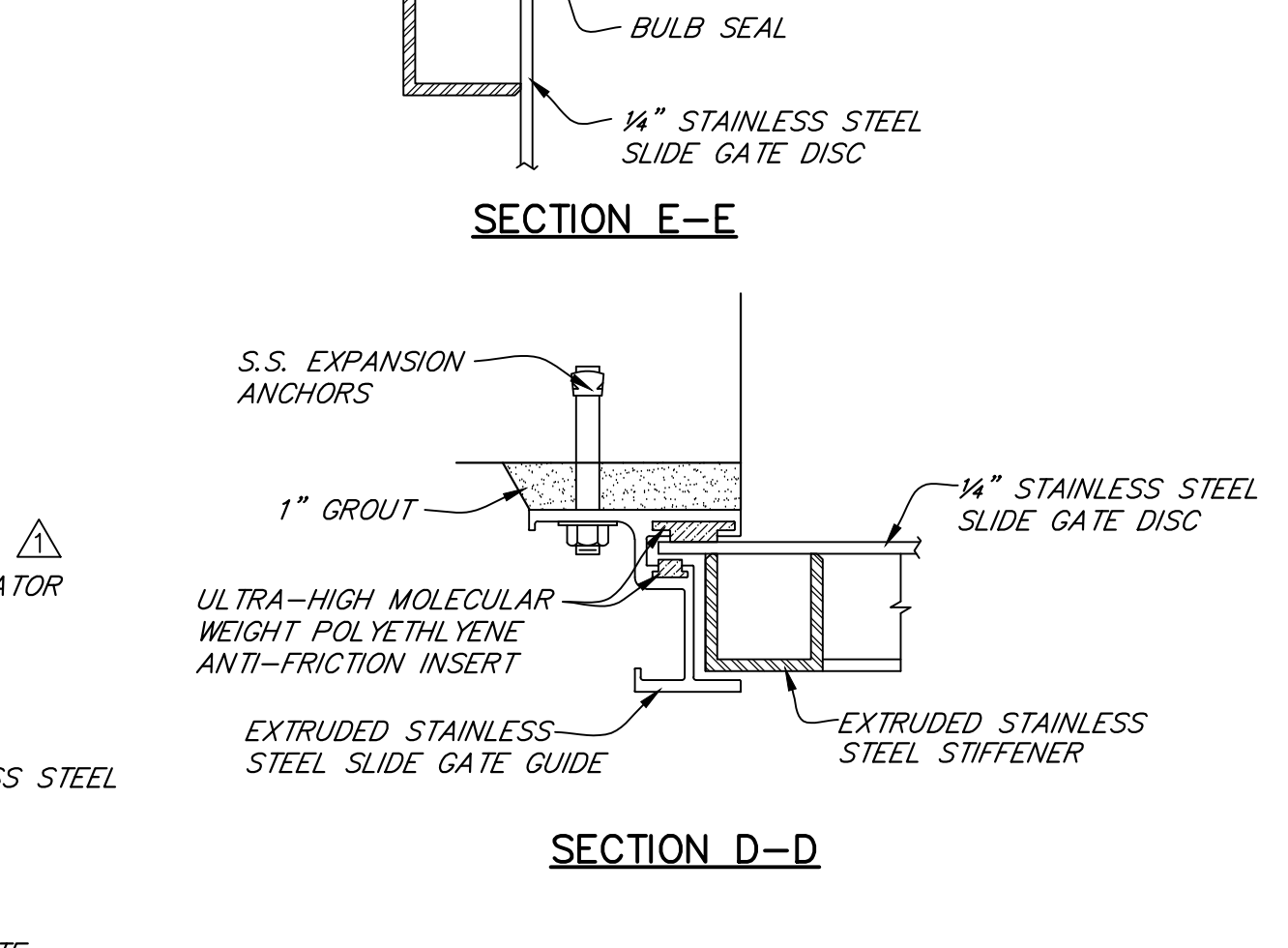
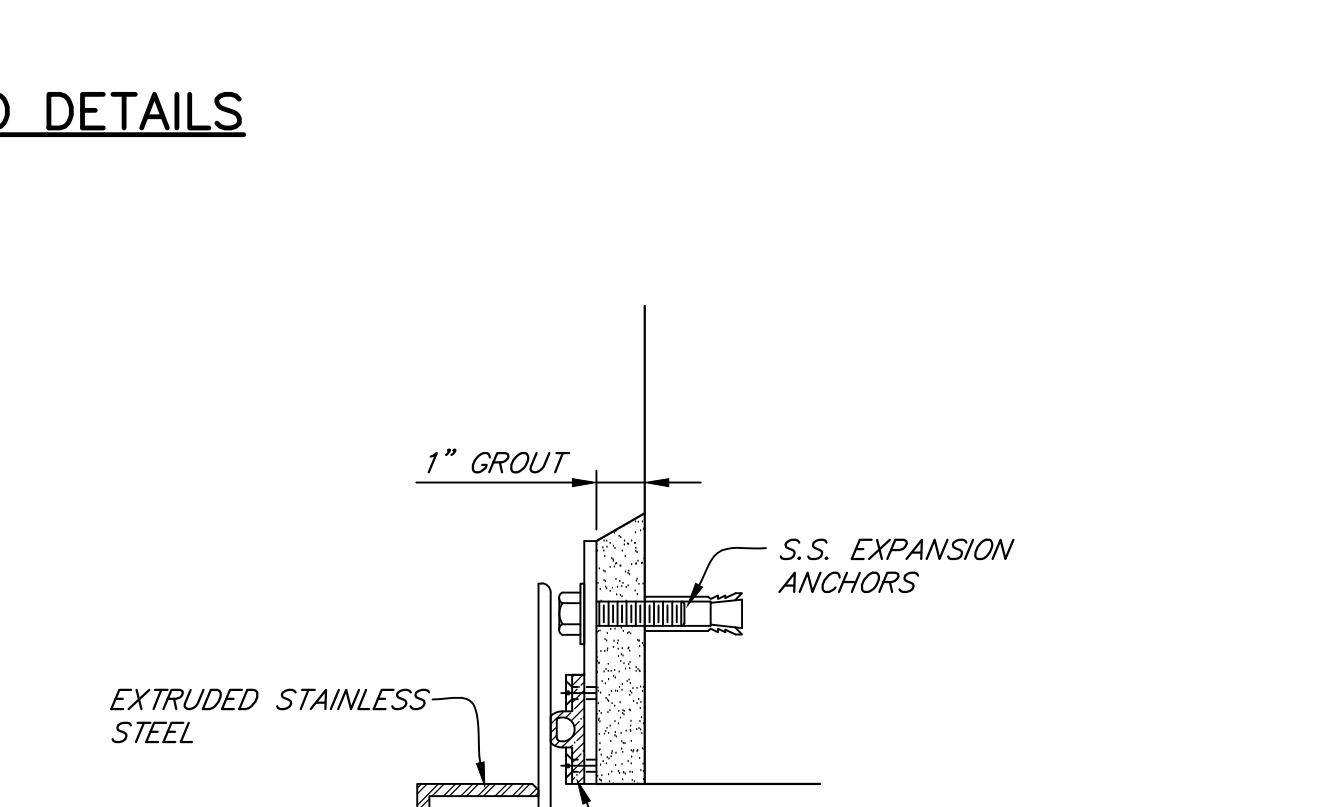
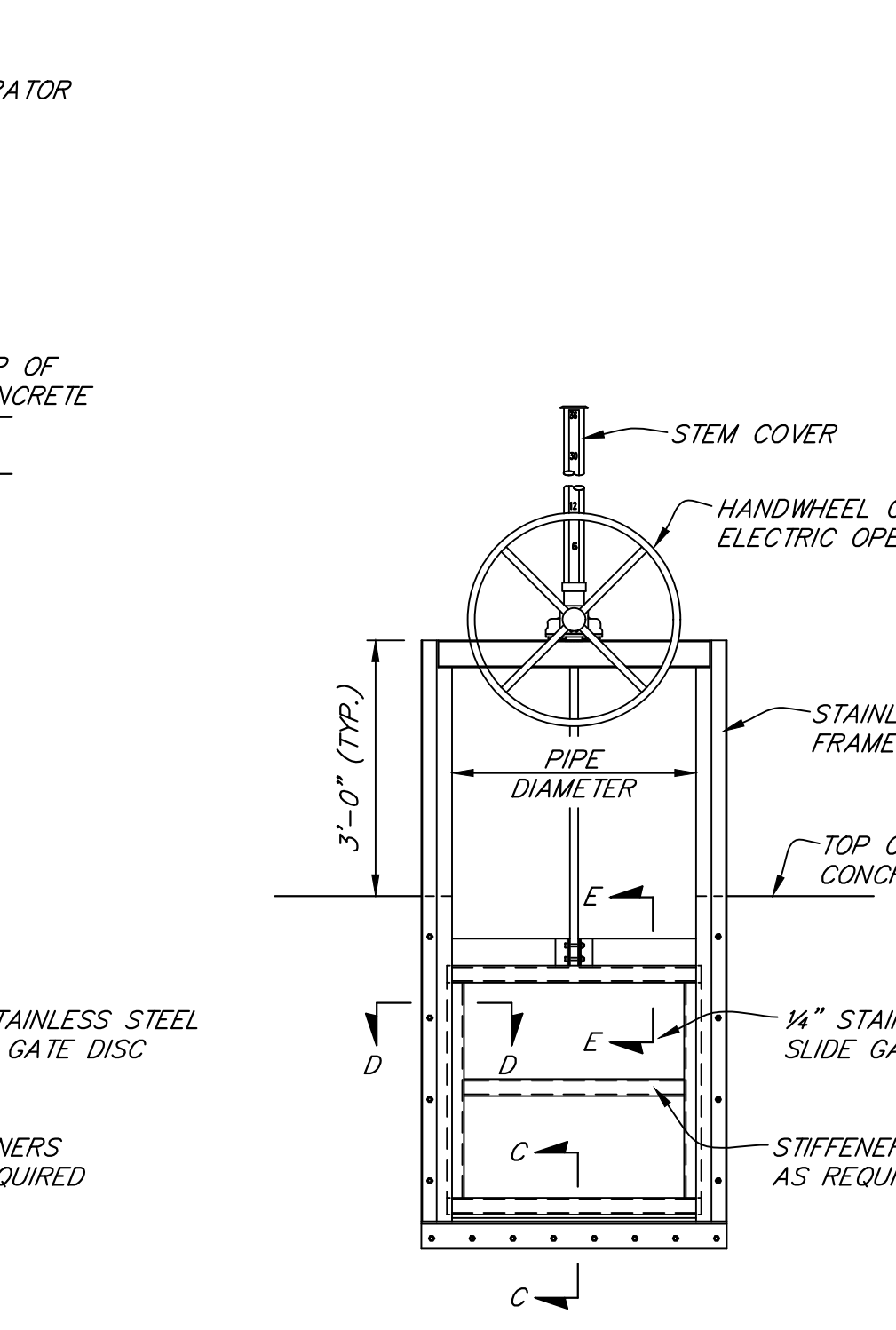
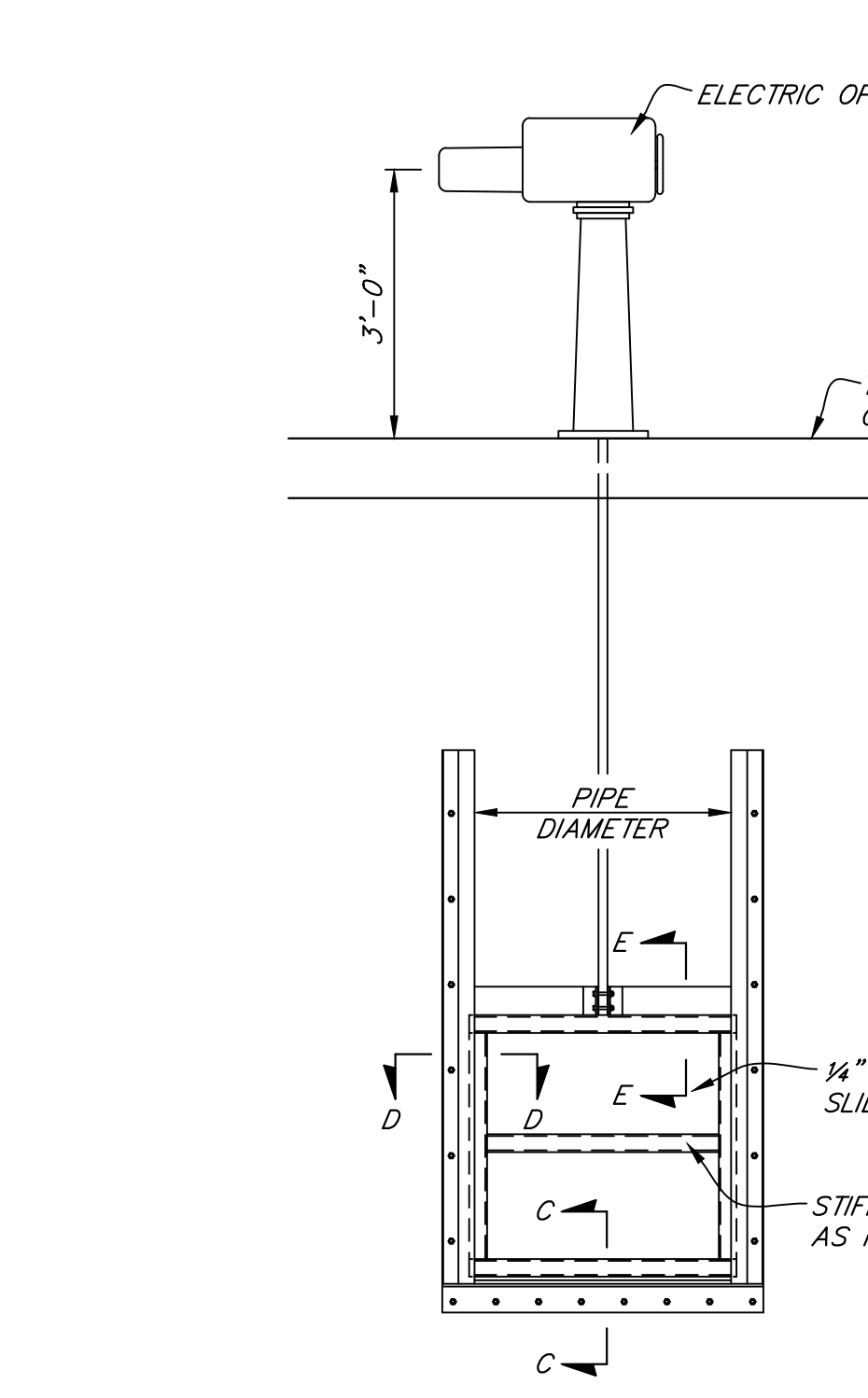




BAR SIZE	LAP SPLICE
#4	2'-0"
#5	2'-6"
#6	3'-0"
#7	4'-0"
#8	5'-0"
#9	5'-0"

- GENERAL STRUCTURAL NOTES
- LAP ALL BARS AND DOWELS AS SHOWN ON LAP SPLICE TABLE.
  - CLEARANCES BETWEEN EDGES OF CONCRETE AND EDGE OF REINFORCING BARS SHALL BE AS FOLLOWS (UNLESS OTHERWISE SHOWN):
    - (A) CONCRETE CAST DIRECTLY AGAINST EARTH - 3"
    - (B) CONCRETE SLABS CAST ON CRUSHED STONE BASE - 2" FROM BOTTOM
    - (C) CONCRETE SLABS EXPOSED TO LIQUID OR WEATHER - 2" FROM TOP
    - (D) FORMED CONCRETE WALLS, SLABS AND FOOTINGS EXPOSED TO EARTH BACKFILL, LIQUID OR WEATHER - 2"
    - (E) BEAMS AND COLUMNS EXPOSED TO EARTH BACKFILL, LIQUID OR WEATHER - 2 1/2"
    - (F) INTERIOR CONCRETE SLABS, SUPPORTED FLOORS AND WALLS - 3/4"
    - (G) INTERIOR BEAMS AND COLUMNS - 2"

GENERAL STRUCTURAL NOTES AND DETAILS  
SCALE: 3/4" = 1'-0"



NON-SELF CONTAINED / FACE MOUNTED SLIDE GATE DETAILS

SELF CONTAINED / FACE MOUNTED SLIDE GATE DETAILS

CONSTRUCTION NOTES:

- SEE "GENERAL NOTES" AND "LEGEND" SHEET 1.
- \* INDICATES INFORMATION TAKEN FROM EXISTING PLANS - CONTRACTOR SHALL VERIFY.

SLIDE GATE DETAILS  
NO SCALE

SHEET 3 OF 8

REVISIONS

ADDITIONAL NO. 1  
4/5/17 RSS

SEWER SYSTEM IMPROVEMENTS  
CONTRACT 16-01 PEAK WASTEWATER FLOW DIVERSION PUMPING STATION MODIFICATIONS

PEAK FLOW DIVERSION STRUCTURE PLANS, SECTIONS AND DETAILS

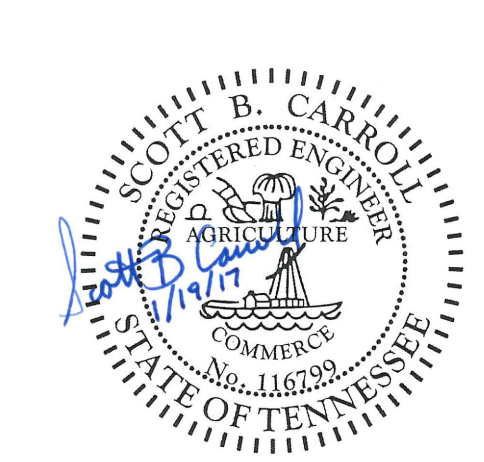
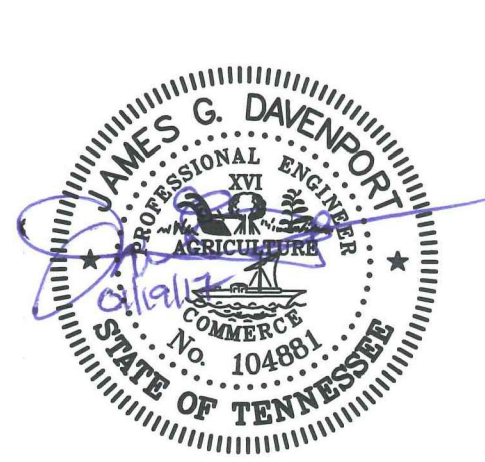
FOR CLEVELAND UTILITIES CLEVELAND, TENNESSEE

SCALE AS SHOWN

DATE NOV. 2016

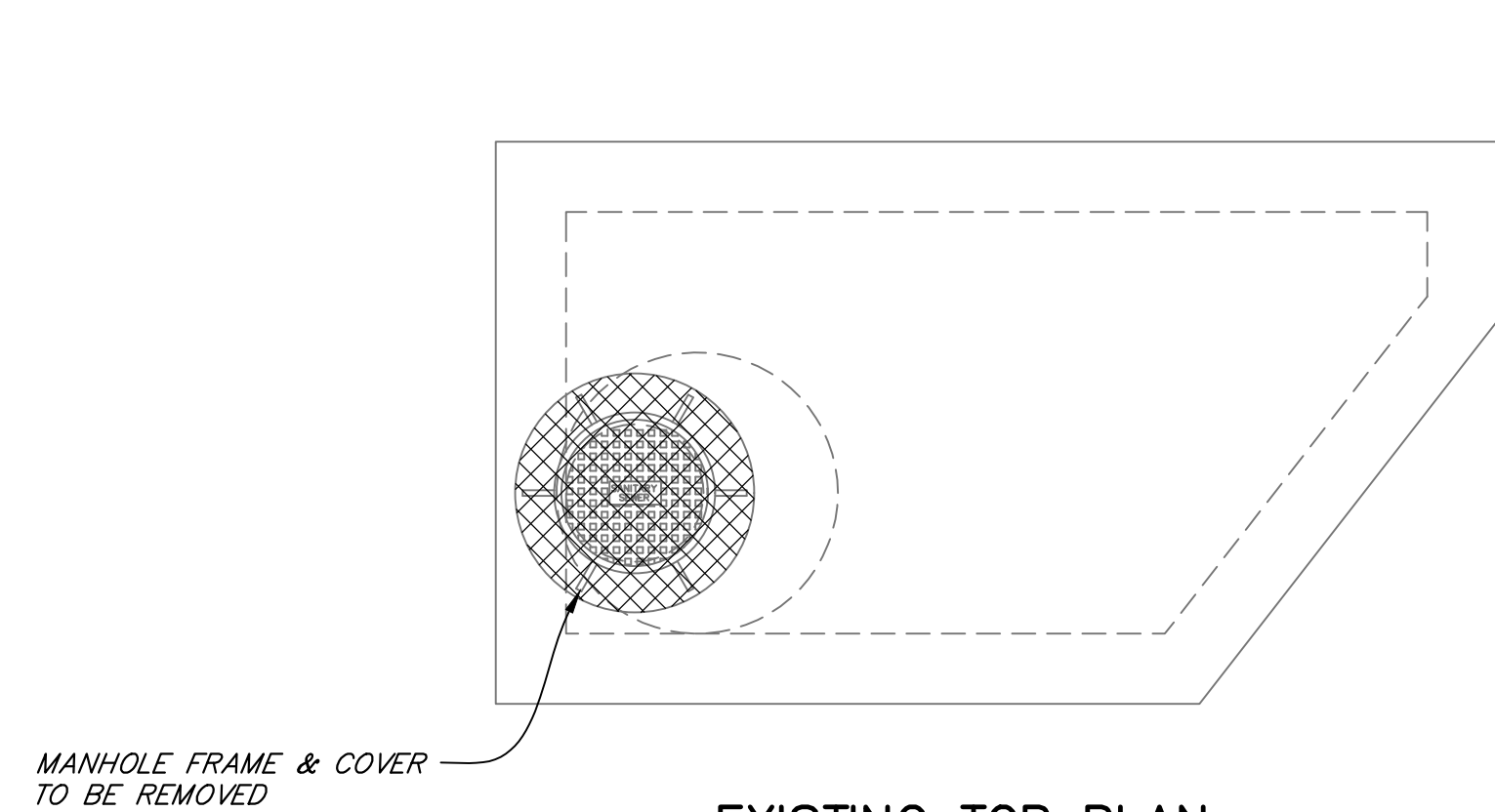
DESIGNED SBC  
DRAWN RSS  
CHECKED JGD

J. R. Wauford & Company, Consulting Engineers, Inc.  
Ridgely, Tennessee  
(615) 884-9638  
www.jrwauford.com

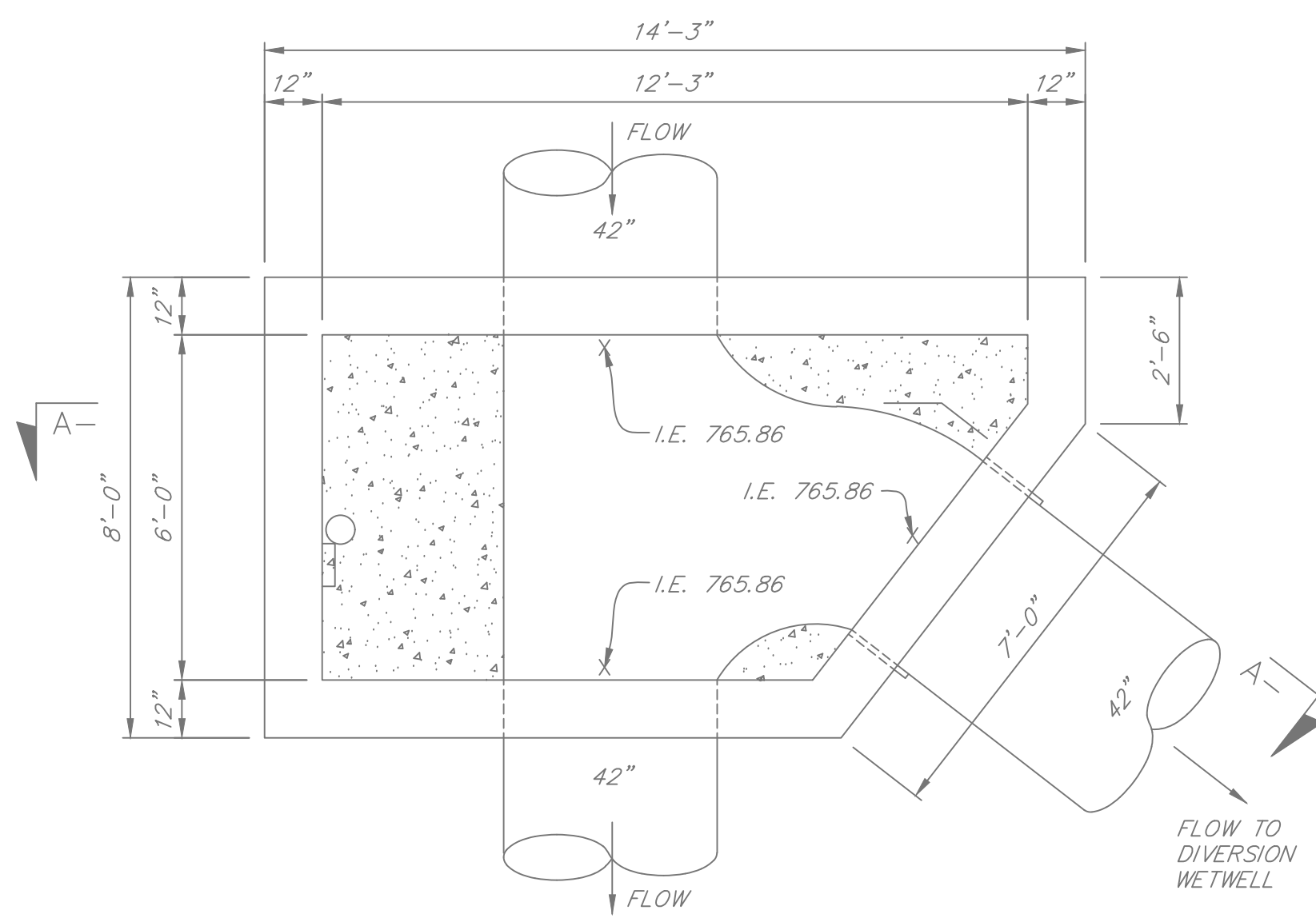


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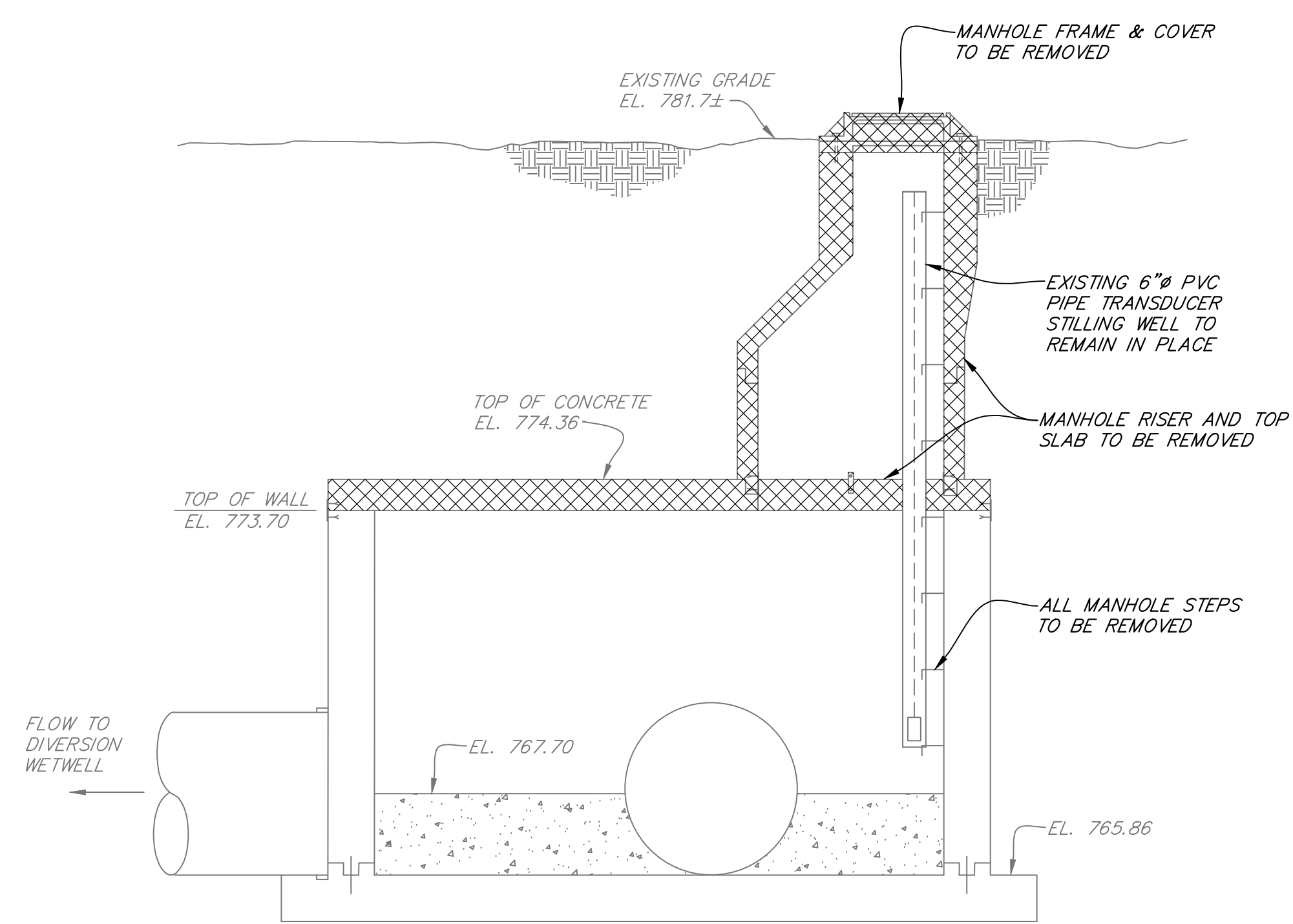




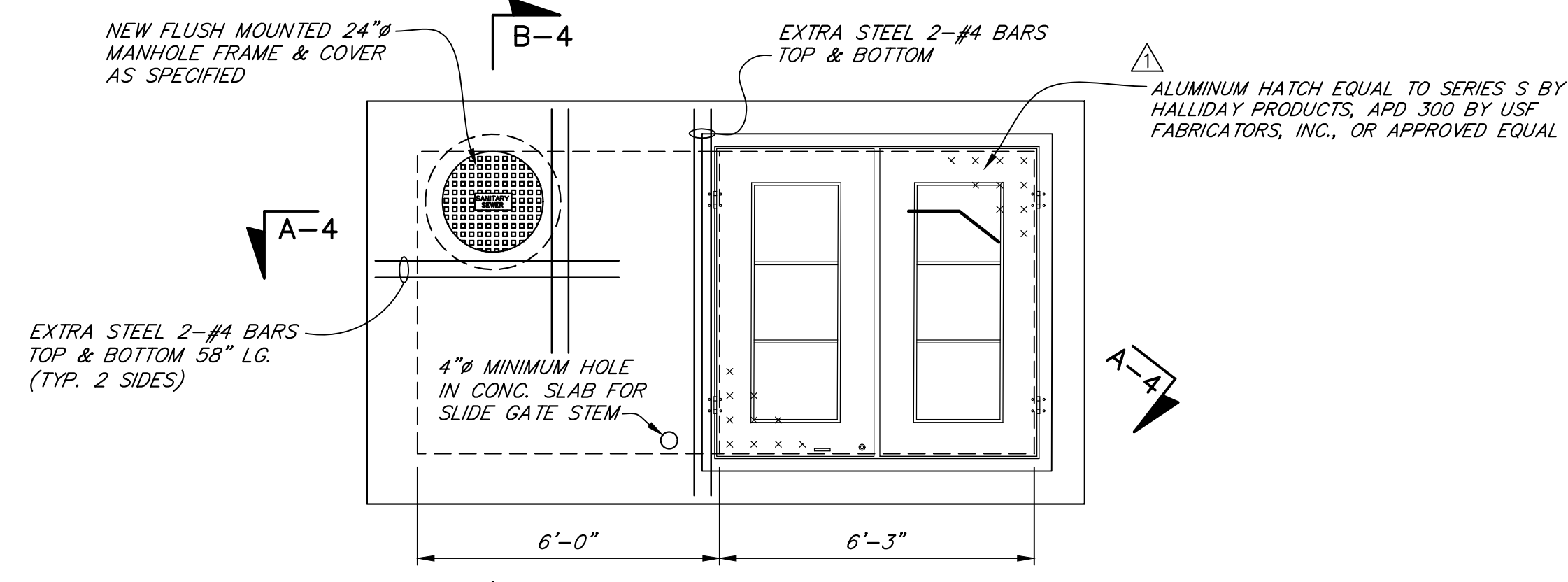
**EXISTING TOP PLAN**  
SCALE: 3/8"=1'-0"



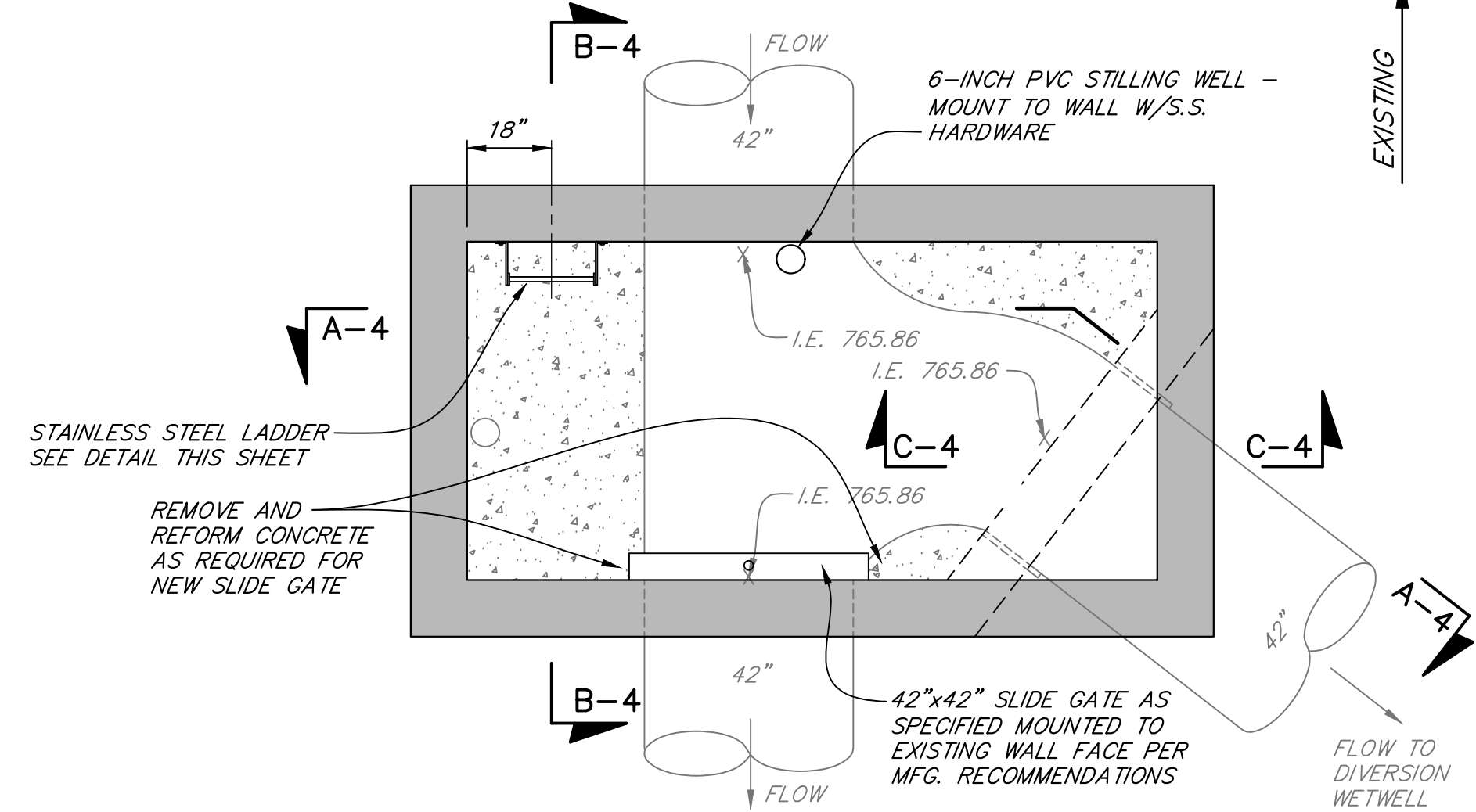
**EXISTING WALL PLAN**  
SCALE: 3/8"=1'-0"



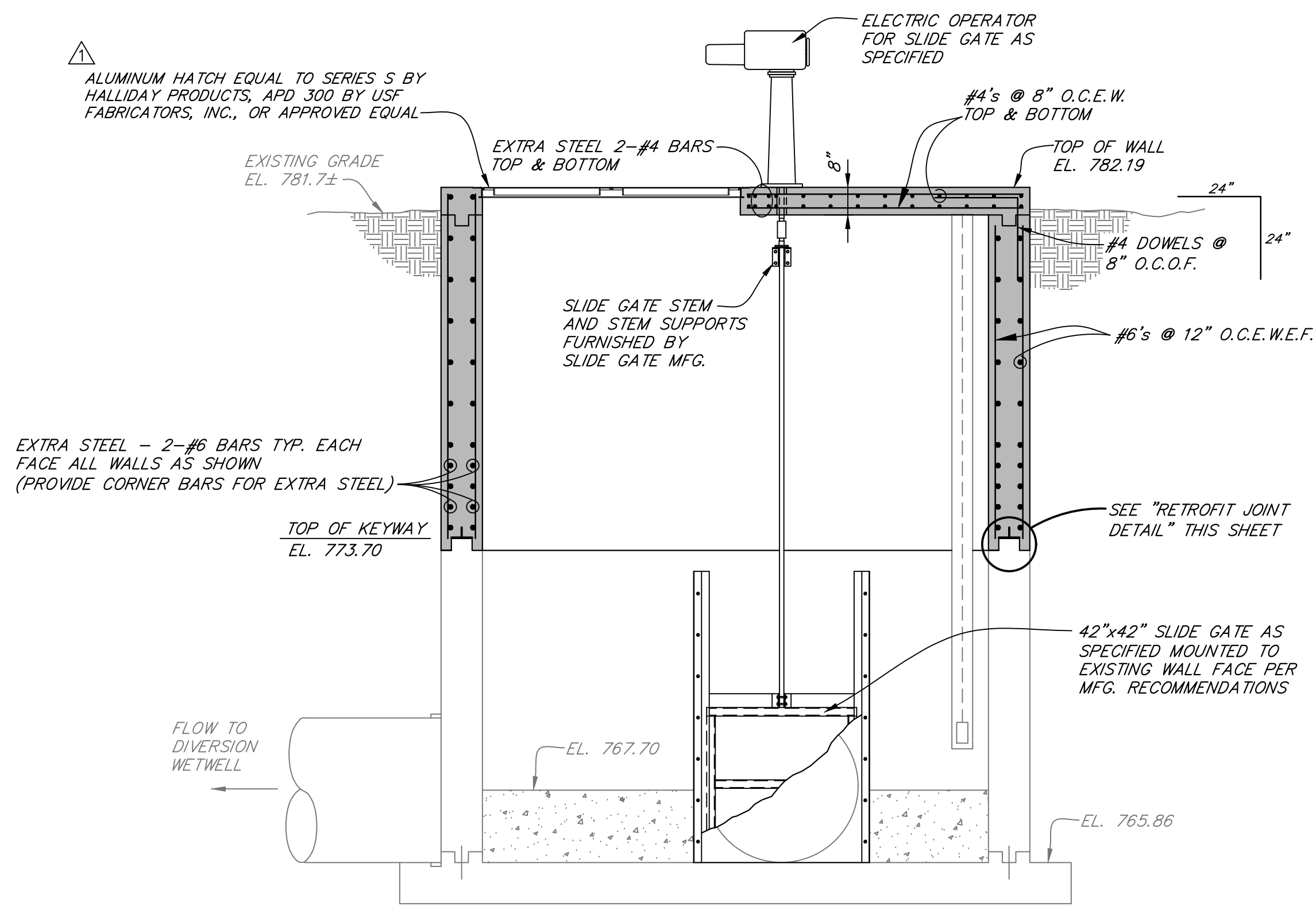
**EXISTING SECTION A-4**  
SCALE: 3/8"=1'-0"



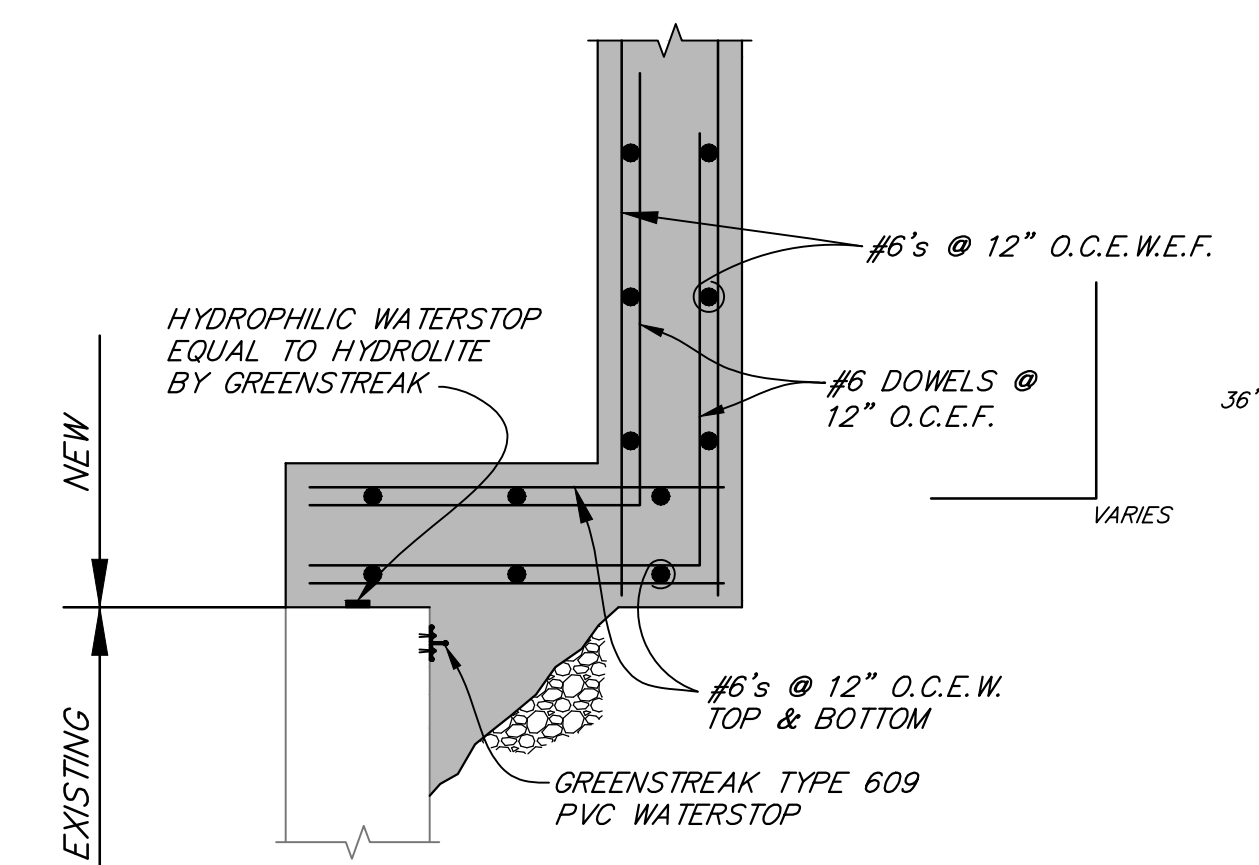
**PROPOSED TOP PLAN**  
SCALE: 3/8"=1'-0"



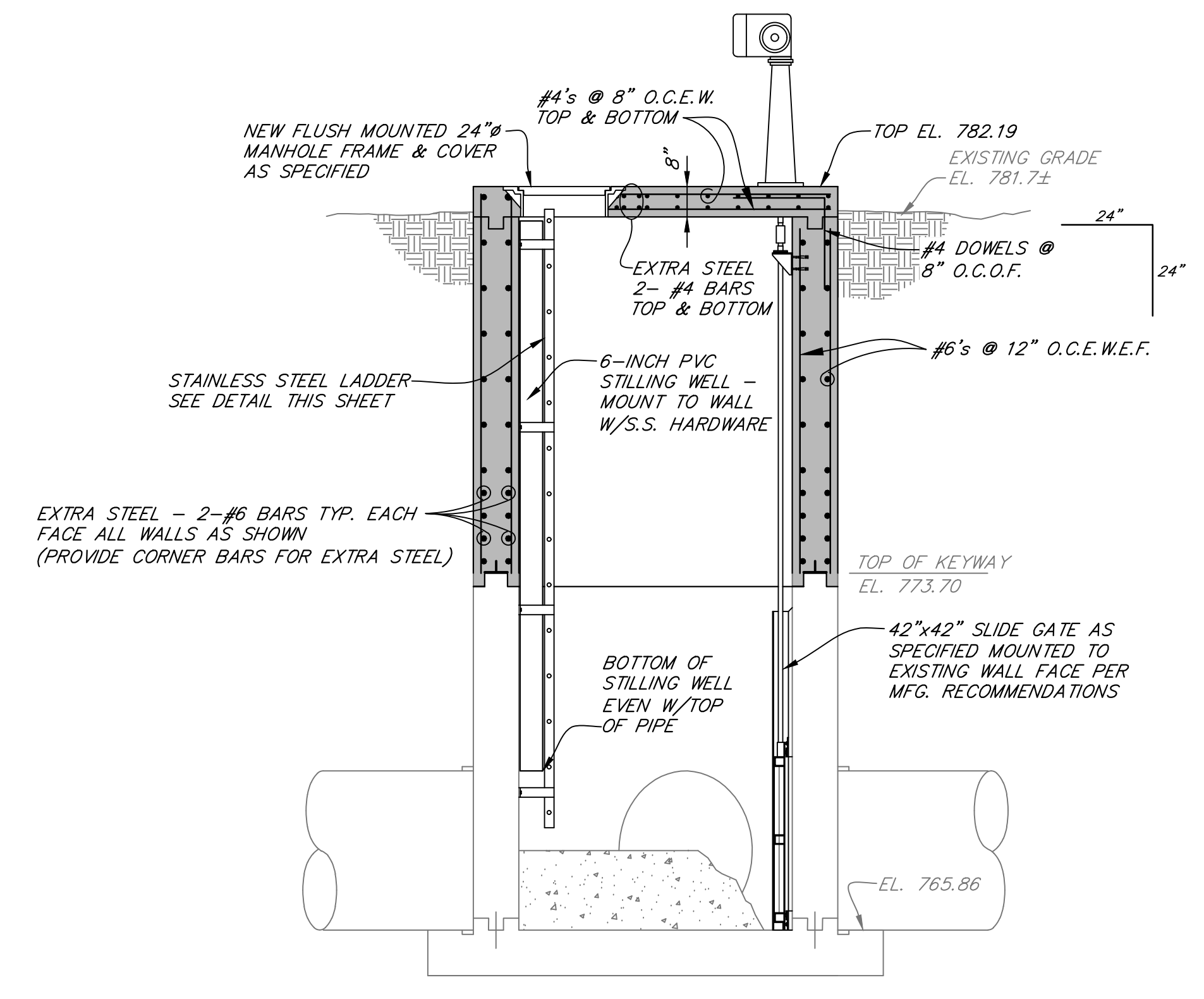
**PROPOSED WALL PLAN**  
SCALE: 3/8"=1'-0"



**PROPOSED SECTION A-4**  
SCALE: 3/8"=1'-0"

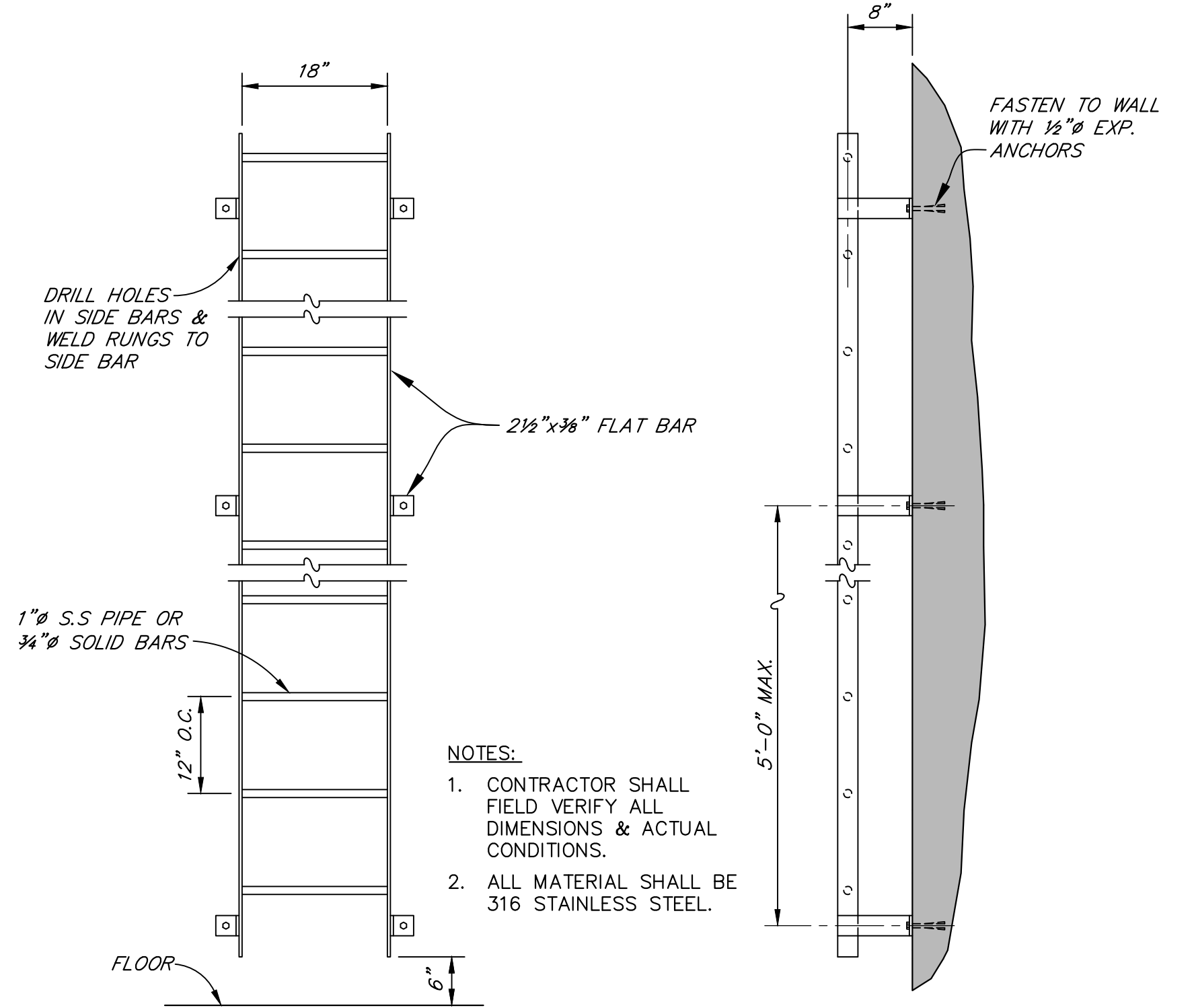


**SECTION C-4**  
SCALE: 3/4"=1'-0"

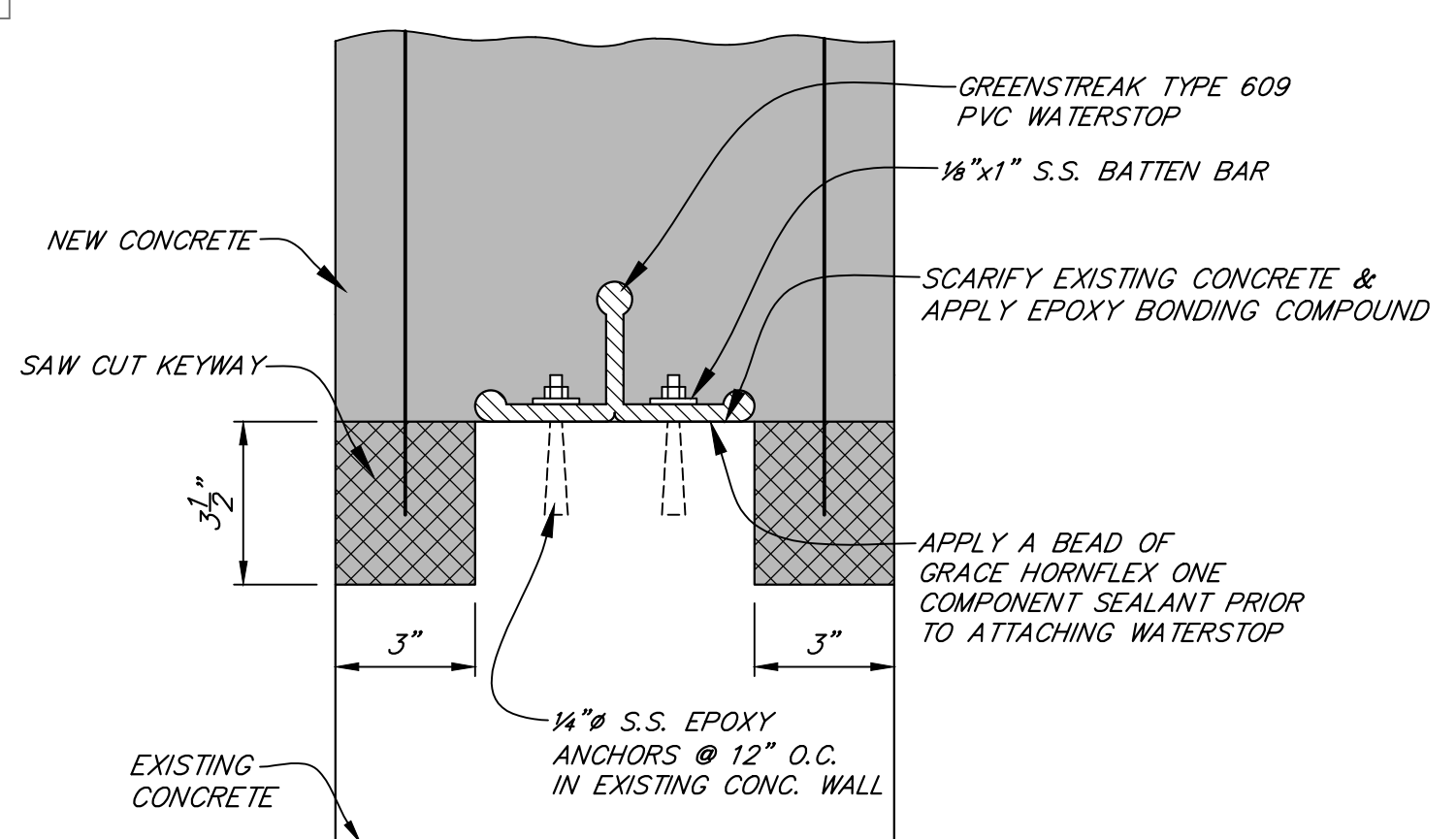


**PROPOSED SECTION B-4**  
SCALE: 3/8"=1'-0"

**NOTE:**  
SLIDE GATE AND SLIDE GATE COMPONENTS SHALL BE STAINLESS STEEL AS SPECIFIED.

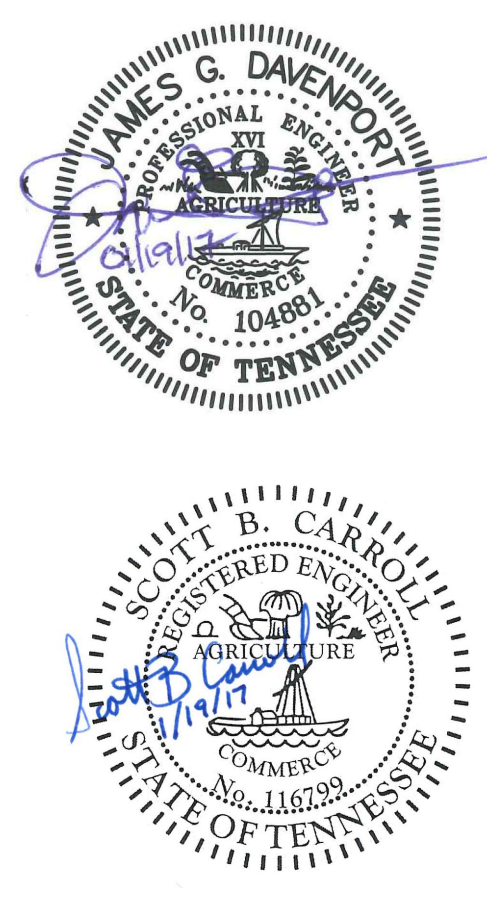


**STAINLESS STEEL LADDER DETAIL**  
NO SCALE



**RETROFIT JOINT DETAIL**  
SCALE: 3" = 1'-0"

- CONSTRUCTION NOTES:**
- SEE "GENERAL NOTES" AND "LEGEND" SHEET 1.
  - CONTRACTOR TO VERIFY ALL EXISTING DIMENSIONS AND ELEVATIONS.



SHEET <b>4</b> OF <b>8</b>		<b>SEWER SYSTEM IMPROVEMENTS</b>	
REVISIONS		CONTRACT 16-01 PEAK WASTEWATER FLOW DIVERSION PUMPING STATION MODIFICATIONS	
ADDITIONAL NO. 1 4/5/17 RSS		<b>EXISTING JUNCTION BOX NO. 1 MODIFICATIONS</b>	
FOR		<b>CLEVELAND UTILITIES</b>	
DATE		<b>CLEVELAND, TENNESSEE</b>	
NOV. 2016		<b>WAUFORD</b>	
JOB NUMBER		DESIGNED SBC	
4626		DRAWN RSS	
J. R. Wauford & Company, Consulting Engineers, Inc. Raleighville, Tennessee (865) 984-9638 www.jrwauford.com		CHECKED JGD	



SEWERAGE SYSTEM IMPROVEMENTS  
CONTRACT 16-01  
PEAK WASTEWATER FLOW DIVERSION  
PUMPING STATION MODIFICATIONS  
CLEVELAND UTILITIES  
CLEVELAND, TENNESSEE  
CU PROJECT NO. S2683X  
WAUFORD PROJECT NO. 4626

Questions/Answers and Clarifications:

1. Is there a geotechnical report for the site?  
**No.**
2. Will the bypass pump need to discharge to the 20" force main or 42" gravity sewer?  
**The bypass around Junction Box No. 1 should discharge to the 42-inch line at flows up to 18,000 gpm. The bypass around the diversion pumping station should discharge to the 20-inch force main during storm events up to 11,000 gpm.**
3. Should bypass pipe/pumping be fenced off and/or silenced?  
**It is the responsibility of the contractor to keep the trail open at all times. Warning signs and fencing are suggested. The pumps are not required to be silenced.**
4. Is the contractor required to haul off dirt, and if so does CU have a place nearby to put it?  
**The contractor is required to haul off all dirt removed from the existing site. CU does not currently have any local dump sites.**
5. The pump lead time may be 6 months. Can the start work date be delayed?  
**The work order can be delayed, but it is in everybody's best interest to complete all work before October 31, 2017.**
6. Where will the bid's be opened?  
**The bid opening will take place at 2435 Guthrie Drive, N.W., Cleveland, TN 37312.**
7. What is the static head from the pump station to the storage tank? What is the maximum flow that can be sent to the tank?  
**The maximum static head is 62 feet, and the minimum static head is 26 feet. The existing capacity of the sewage pumping station is 11,000 gpm, therefore the bypass pump should be capable to handling this flow.**