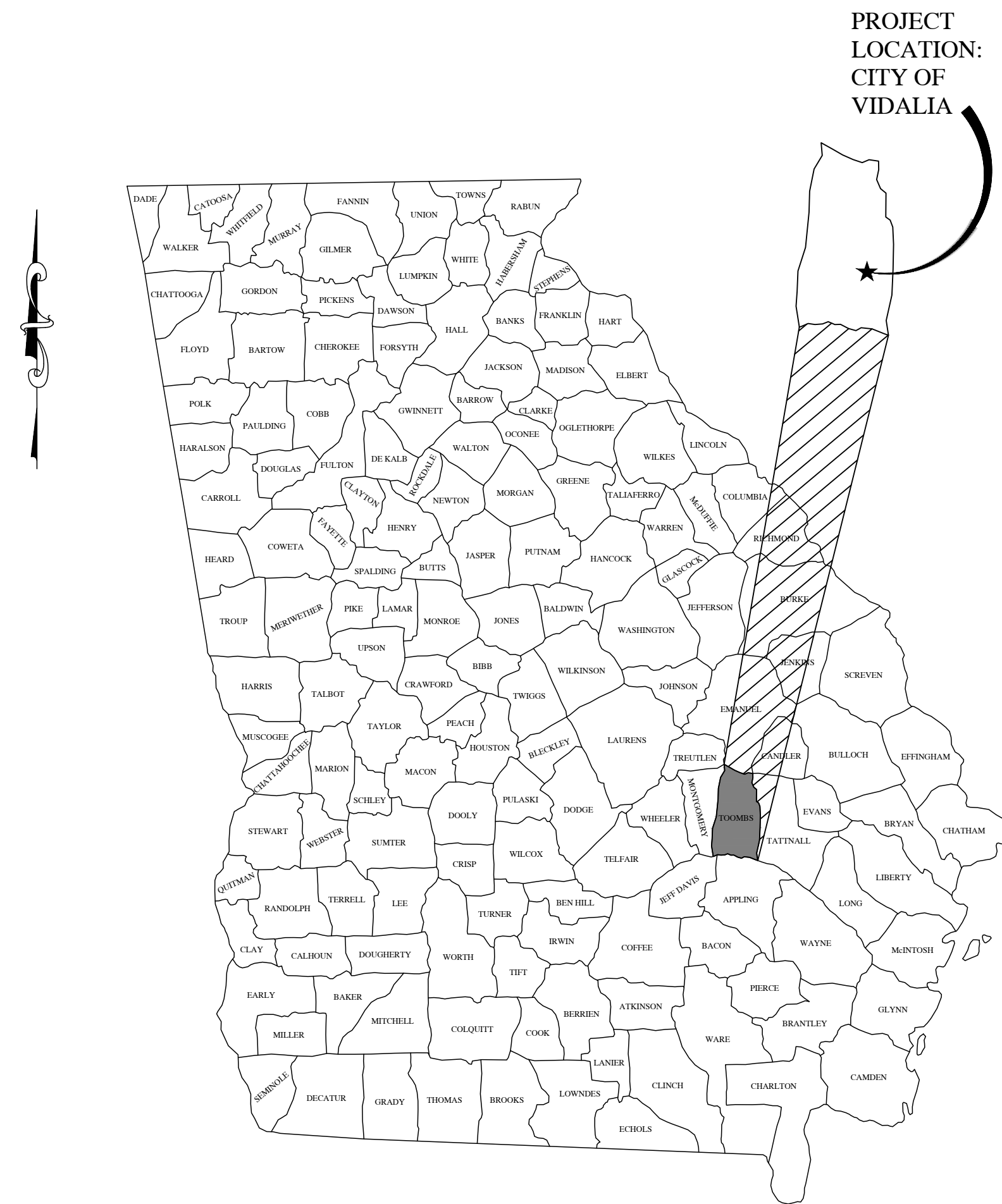


# LIFT STATION 2, 6, & 26 AND COLLECTION SYSTEM REHABILITATION

## FOR THE CITY OF VIDALIA TOOMBS COUNTY, GA MARCH 2024

### CITY COUNCIL

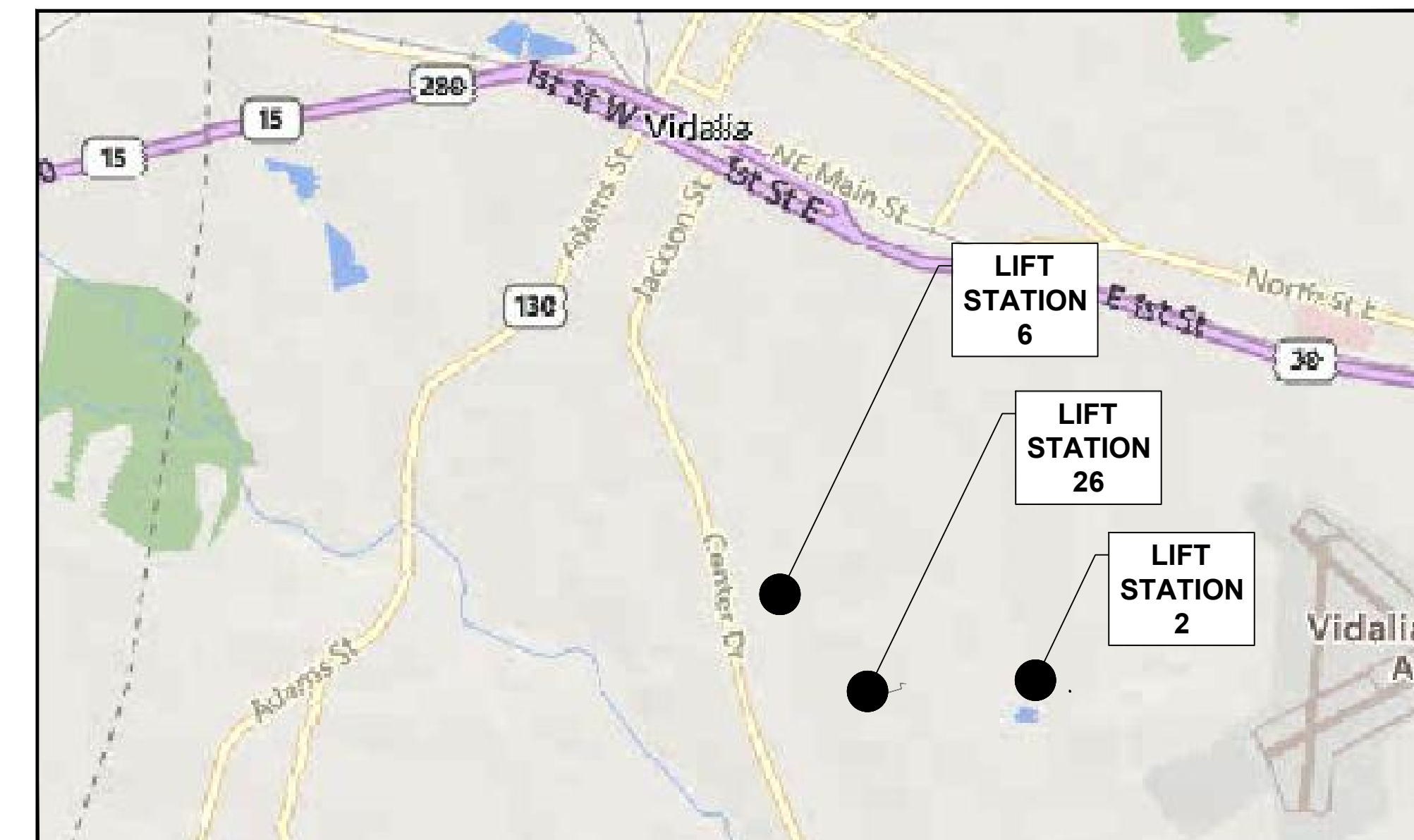
DOUG P. ROPER, III	MAYOR
JOHN RAYMOND TURNER	MAYOR PRO-TERM, DISTRICT 3 COUNCILMAN
BOB DIXON	COUNCILMAN AT-LARGE
WILLIAM CECIL THOMPSON	DISTRICT 1 COUNCILMAN
LOYD MOBLEY	DISTRICT 2 COUNCILWOMAN
JENNIFER EVANS	DISTRICT 4 COUNCILMAN
WILLIAM (BILL) BEDINGFIELD	CITY MANAGER



LOCATION MAP

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C1.1	LIFT STATION 2 SECTIONS AND DETAILS
C2.0	LIFT STATION 6 PLANS AND DETAILS
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C3.2	LIFT STATION 26 PLAN, SECTION, AND DETAILS
C4.0 - C4.1	CONSTRUCTION DETAILS
ESC-1	EROSION AND SEDIMENTATION CONTROL DETAILS



VICINITY MAP  
N.T.S.

ESG ENGINEERING

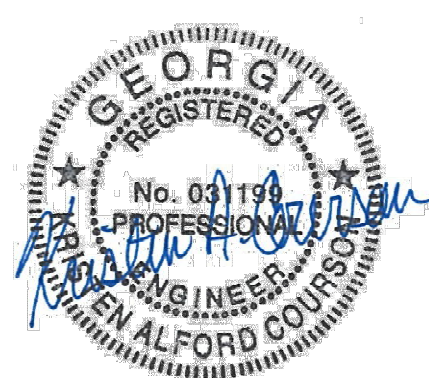


6400 Peake Rd  
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LIFT STATIONS 2, 6, & 26  
AND COLLECTION SYSTEM  
REHABILITATION  
FOR THE  
CITY OF VIDALIA

REVISIONS	DATE
NO. DESCRIPTION	

BID SET



DRAWN BY: JDM/DEG  
CHECKED BY: KAC  
DATE: MAR 2024  
SCALE: N.T.S.

CONTENT:  
COVER SHEET

SHEET NO:

C0.0



**GENERAL NOTES**

- CONTRACTOR SHALL ADHERE TO ALL LOCAL, STATE, OR FEDERAL REGULATIONS AS THEY SHALL SUPERCEDE THE REQUIREMENTS OF THE CONTRACT DOCUMENTS. SHOULD A CONFLICT EXIST, THE CONTRACTOR SHALL IMMEDIATELY BRING THIS TO THE ATTENTION OF THE ENGINEER.
- THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATIONS AND/OR ELEVATIONS OF EXISTING INFRASTRUCTURE AS SHOWN ON THESE PLANS ARE BASED ON EXISTING RECORDS AND WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THIS INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO EVALUATE ALL EXISTING INFRASTRUCTURE WHICH MAY CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS AND COORDINATE WITH THE ENGINEER FOR ADJUSTMENT OF THE WORK AS NECESSARY TO MAINTAIN ADEQUATE SEPARATION SHOULD A CONFLICT EXIST. CONTRACTOR SHALL FIELD-VERIFY ALL EXISTING ELEVATIONS BEFORE AND DURING (WHILE UNCOVERED) CONSTRUCTION.
- ALL IN-PLACE IMPROVEMENTS WILL BE PROTECTED BY THE CONTRACTOR DURING CONSTRUCTION. ANY DAMAGES WILL BE REPAIRED TO THE RESPECTIVE OWNER'S SATISFACTION BY THE CONTRACTOR AT NO ADDITIONAL COMPENSATION.
- THE CONTRACTOR IS RESPONSIBLE FOR THE DESIGN AND IMPLEMENTATION OF ALL SHEETING, SHORING, BRACING, DE-WATERING, AND SPECIAL EXCAVATION MEASURES REQUIRED TO MEET OSHA, FEDERAL, STATE AND LOCAL REGULATIONS PURSUANT TO THE INSTALLATION OF THE WORK INDICATED ON THESE DRAWINGS AS WELL AS SUBSEQUENT WORK AGREED TO BETWEEN THE OWNER AND CONTRACTOR. THE OWNER AND THE DESIGN ENGINEER ACCEPT NO RESPONSIBILITY FOR THE DESIGN(S) TO INSTALL SAID ITEMS.
- NO WORK SHALL BEGIN ON THIS PROJECT WITHOUT AT LEAST 24 HOURS ADVANCE NOTIFICATION TO THE OWNER AND THE ENGINEER. IN ADDITION, NO WORK IS TO TAKE PLACE WITHOUT AN APPROVED SET OF PLANS AND SPECIFICATIONS ON THE JOB SITE. WORK IS TO BE COORDINATED WITH ALL OTHER OPERATIONS ACTIVITIES.
- IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO INSURE THAT ALL REQUIRED PERMITS ARE OBTAINED AND IN HAND PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.
- THE CONTRACTOR SHALL MAKE HIS OWN DETERMINATION OF ALL SURFACE AND SUBSURFACE CONDITIONS. THE CONTRACTOR WITH CONSULTATION WITH THE ENGINEER SHALL TOGETHER DETERMINE WHAT MATERIAL, IF ANY, IS TO BE WASTED.
- AFTER THE FINAL INSPECTION HAS BEEN PERFORMED AND ALL ITEMS ARE SATISFACTORY TO THE CITY, AS-BUILTS SHALL BE SUBMITTED TO THE ENGINEER ALONG WITH A LETTER OF TRANSMITTAL. ACCEPTABLE SUBMITTALS WILL BE APPROVED IN WRITING. SUBMITTALS REQUIRING CORRECTIONS BEFORE BEING ACCEPTABLE WILL SO BE NOTED. AS-BUILTS MUST BE RESUBMITTED FOR REVIEW AND APPROVAL PRIOR TO THE LETTER OF ACCEPTANCE BEING ISSUED BY THE ENGINEER(S).
- ALL FIELD CHANGES SHALL BE AUTHORIZED BY THE OWNER IN WRITING IN ADVANCE OF THE WORK. IF CHANGES ARE MADE BY THE CONTRACTOR WITHOUT PRIOR WRITTEN CONSENT FROM THE OWNER, CONTRACTOR SHALL BEAR FULL RESPONSIBILITY FOR MAKING THE NECESSARY CHANGES TO BRING THE CONSTRUCTION INTO CONFORMANCE WITH APPROVED PLANS AND SPECIFICATIONS AT NO COST TO THE OWNER.
- THE AREAS DISTURBED BY THE CONTRACTOR SHALL BE RESTORED TO THEIR ORIGINAL CONDITION UNLESS OTHERWISE NOTED ON THE PLANS.
- ALL CITY WATER UTILIZED DURING CONSTRUCTION SHALL BE METERED THROUGH A CONSTRUCTION WATER METER (OBTAINED FROM THE CITY OF VIDALIA) EQUIPPED WITH AN APPROVED BACK FLOW DEVICE.
- IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO FIELD VERIFY ALL PROPOSED CONSTRUCTION FOR FEASIBILITY AND FUNCTION. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER OF ANY DISCREPANCIES OR WARRANTED CONCERNS PERTAINING TO DESIGN AND CONSTRUCTION.
- LOCATION OF ALL EXISTING UTILITIES IS APPROXIMATE. CONTRACTOR SHALL FIELD-LOCATE ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION AND NOTIFY ENGINEER OF ANY DEVIATIONS FROM PLANS. CONTRACTOR SHALL PROTECT ALL EXISTING UTILITIES. CONTRACTOR SHALL IMMEDIATELY NOTIFY ENGINEER AND UTILITY OWNER OF ANY DAMAGED UTILITIES AND SHALL REPAIR IMMEDIATELY AT THEIR OWN EXPENSE.
- CONTRACTOR SHALL BE RESPONSIBLE FOR CLEARING & GRUBBING OF ALL EXISTING VEGETATION ON SITE AND SHALL HAUL OFF REMOVED VEGETATION. NO BURNING ON SITE WILL BE ALLOWED.
- CONTRACTOR SHALL REMOVE AND DISPOSE OF DEMOLISHED SITE MATERIALS AT THEIR OWN EXPENSE.

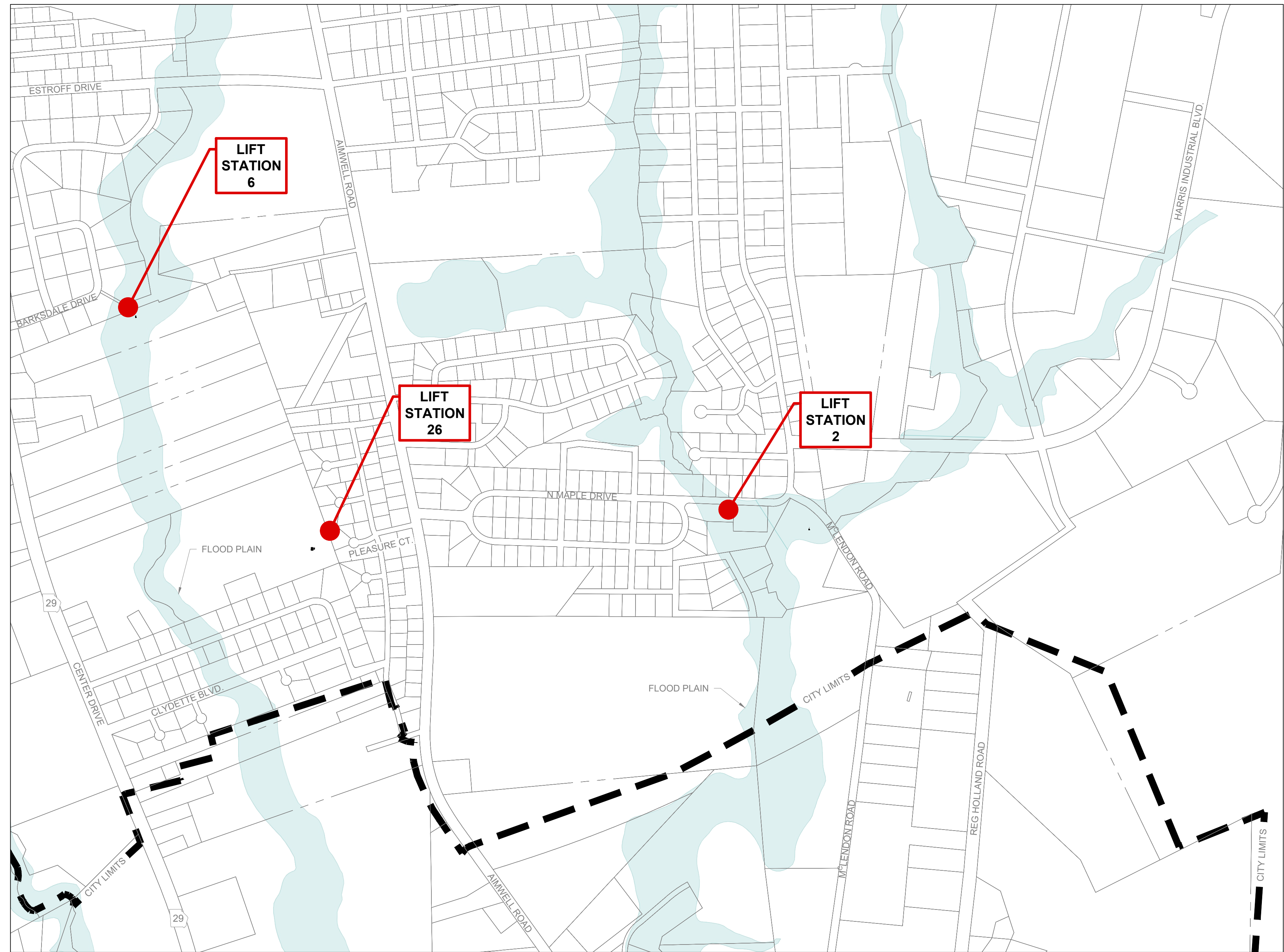
- CONTRACTOR SHALL PROVIDE BYPASS PUMPING AND ENSURE CONTINUED, UNINTERRUPTED SEWER SERVICE THROUGHOUT CONSTRUCTION.
- GROUNDWATER IS EXPECTED DURING EXCAVATION FOR STRUCTURES. CONTRACTOR SHALL IMPLEMENT GROUNDWATER CONTROL MEASURES AS NECESSARY, AND THEY SHALL OPERATE CONTINUOUSLY DURING INSTALLATION OF STRUCTURES UNTIL FINAL GRADE IS ESTABLISHED AND COMPLETED. GROUNDWATER LEVELS TO BE MAINTAINED A MINIMUM OF 3 FEET BELOW EXCAVATED BOTTOM.
- ALL TRAFFIC CONTROL PLANS, DEVICES, PERSONNEL, OPERATIONS, & PROCEDURES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL COMPLY WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, LATEST EDITION, AS WELL AS ALL GDOT AND LOCAL REQUIREMENTS.

**SEWER SYSTEM**

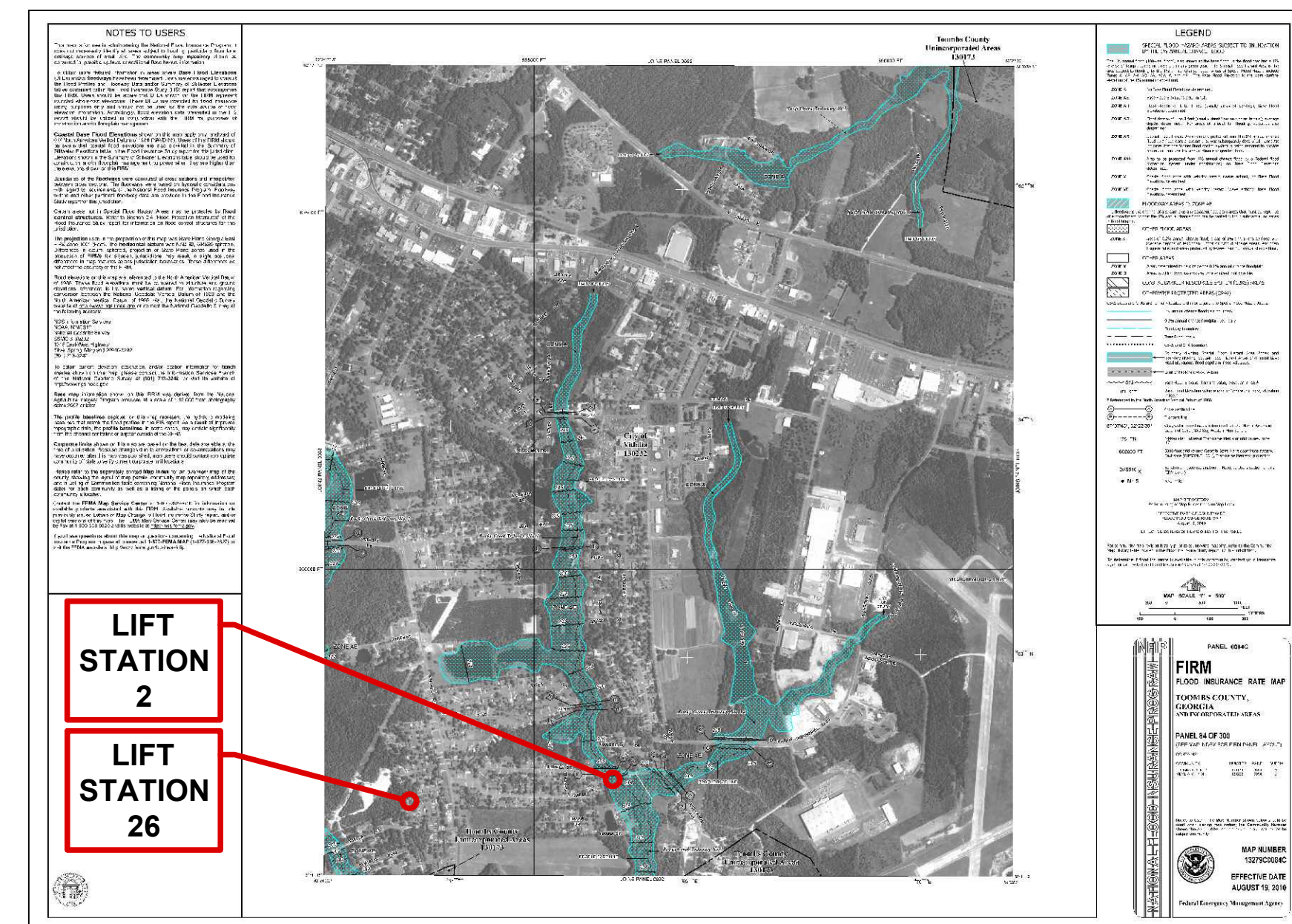
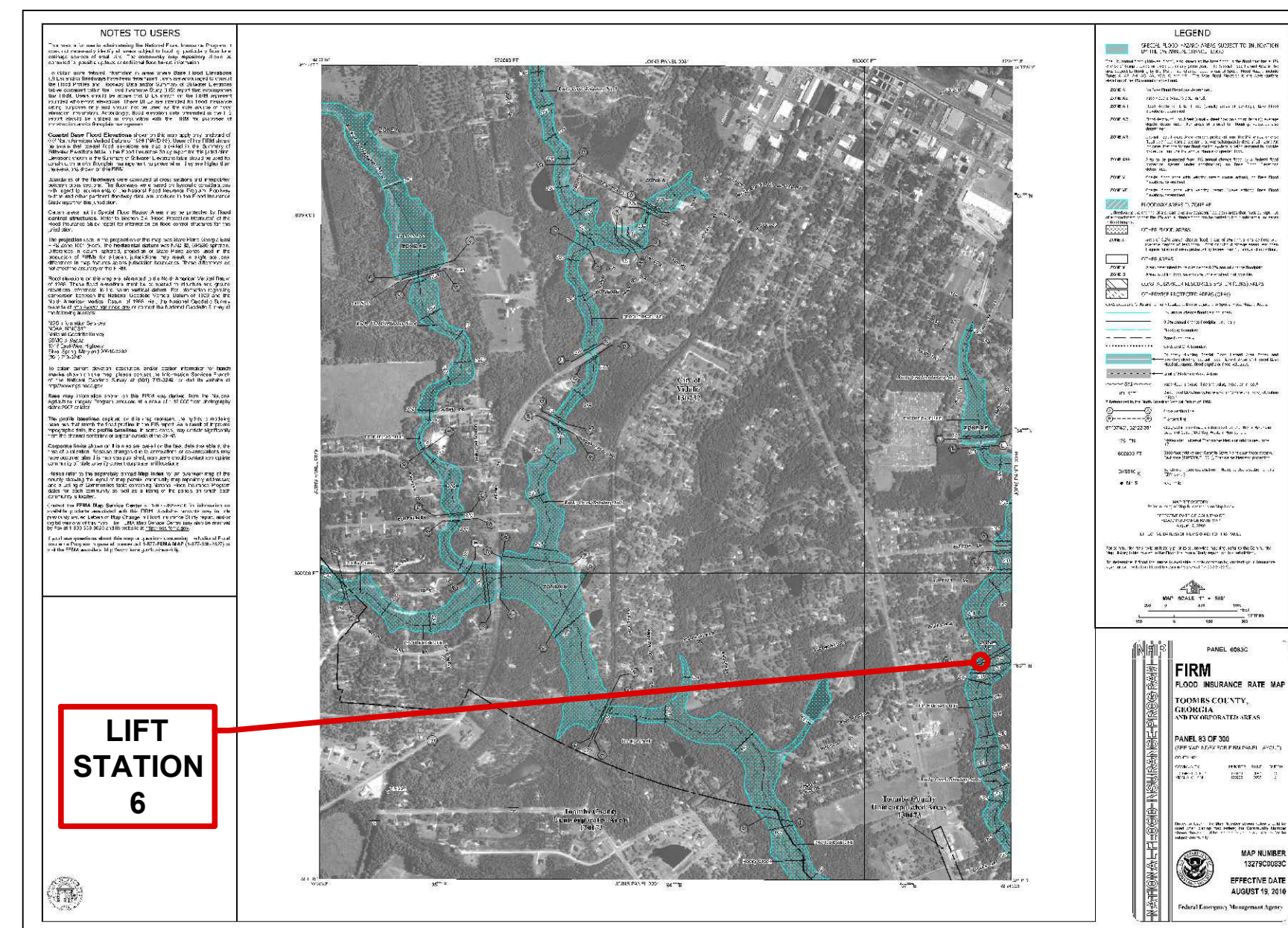
- PROVIDE 10' HORIZONTAL SEPARATION BETWEEN SANITARY SEWER AND WATER MAINS. WHERE THESE MAINS CROSS THERE SHALL BE 18" VERTICAL SEPARATION BETWEEN THE BOTTOM OF THE WATER MAIN AND THE TOP OF THE FORCE MAIN.
- DETECTOR TAPE AND TRACER WIRE SHALL BE INSTALLED ON ALL GRAVITY SEWER AND FORCE MAIN.
- AFTER INSTALLATION, ALL GRAVITY SEWER AND FORCE MAINS AND MANHOLES SHALL BE TESTED PER THE SPECIFICATIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL MATERIALS AND PERSONNEL NECESSARY TO CONDUCT ALL TESTING. THE OWNER'S REPRESENTATIVE SHALL BE PRESENT FOR ALL TESTING.

**RESTORATION & CLEANUP NOTES**

- THE CONTRACTOR SHALL PLAN, COORDINATE, AND EXECUTE THE WORK SUCH THAT DISRUPTION TO PLANT OPERATIONS, PERSONAL PROPERTY, AND BUSINESS IS HELD TO A PRACTICAL MINIMUM.
- ALL TEMPORARY EQUIPMENT AND/OR TOOLS UTILIZED IN PERFORMANCE OF THE WORK SHALL BE REMOVED FROM THE SITE PROMPTLY UPON COMPLETION OF THAT PORTION OF THE WORK.
- HANDWORK, INCLUDING RAKING AND SMOOTHING, SHALL BE REQUIRED TO ENSURE THAT THE REMOVAL OF ROOTS, STICKS, ROCKS, AND OTHER DEBRIS IS ACCOMPLISHED IN ORDER TO PROVIDE A NEAT PLEASING APPEARANCE. GRASSING, WHEN IN SEASON, SHALL IMMEDIATELY FOLLOW IN ORDER TO ESTABLISH PERMANENT COVER AT THE EARLIEST DATE. IF GRASSING IS NOT IN SEASON, PROPER EROSION CONTROL SHALL BE INSTALLED AND MAINTAINED.
- THE ENGINEER SHALL BE AUTHORIZED TO STOP ALL WORK BY THE CONTRACTOR WHEN RESTORATION AND CLEANUP ARE UNSATISFACTORY AND TO REQUIRE APPROPRIATE REMEDIAL MEASURES.

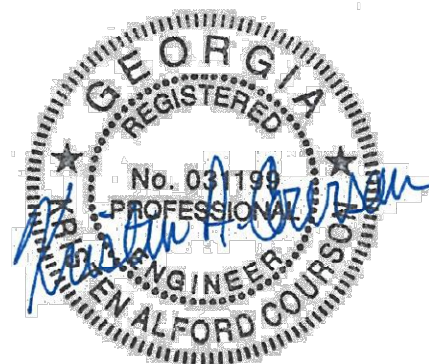


**PROJECT SITE MAP**  
N.T.S.



REVISIONS NO.	DESCRIPTION	DATE

**BID SET**



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**DATE:** MAR 2024  
**SCALE:** 1" = 500'

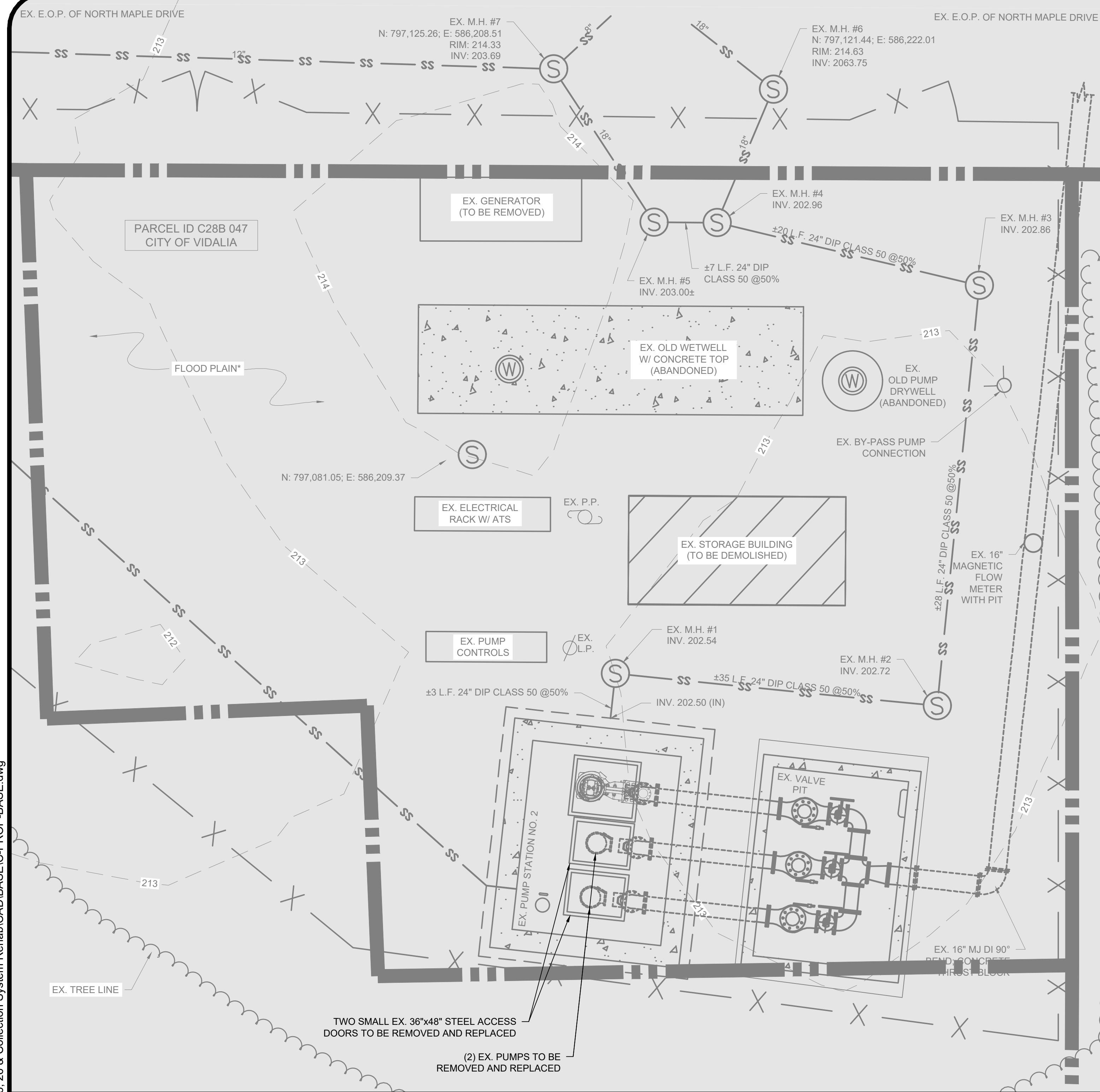
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SITE LOCATION MAP

**SHEET NO:**

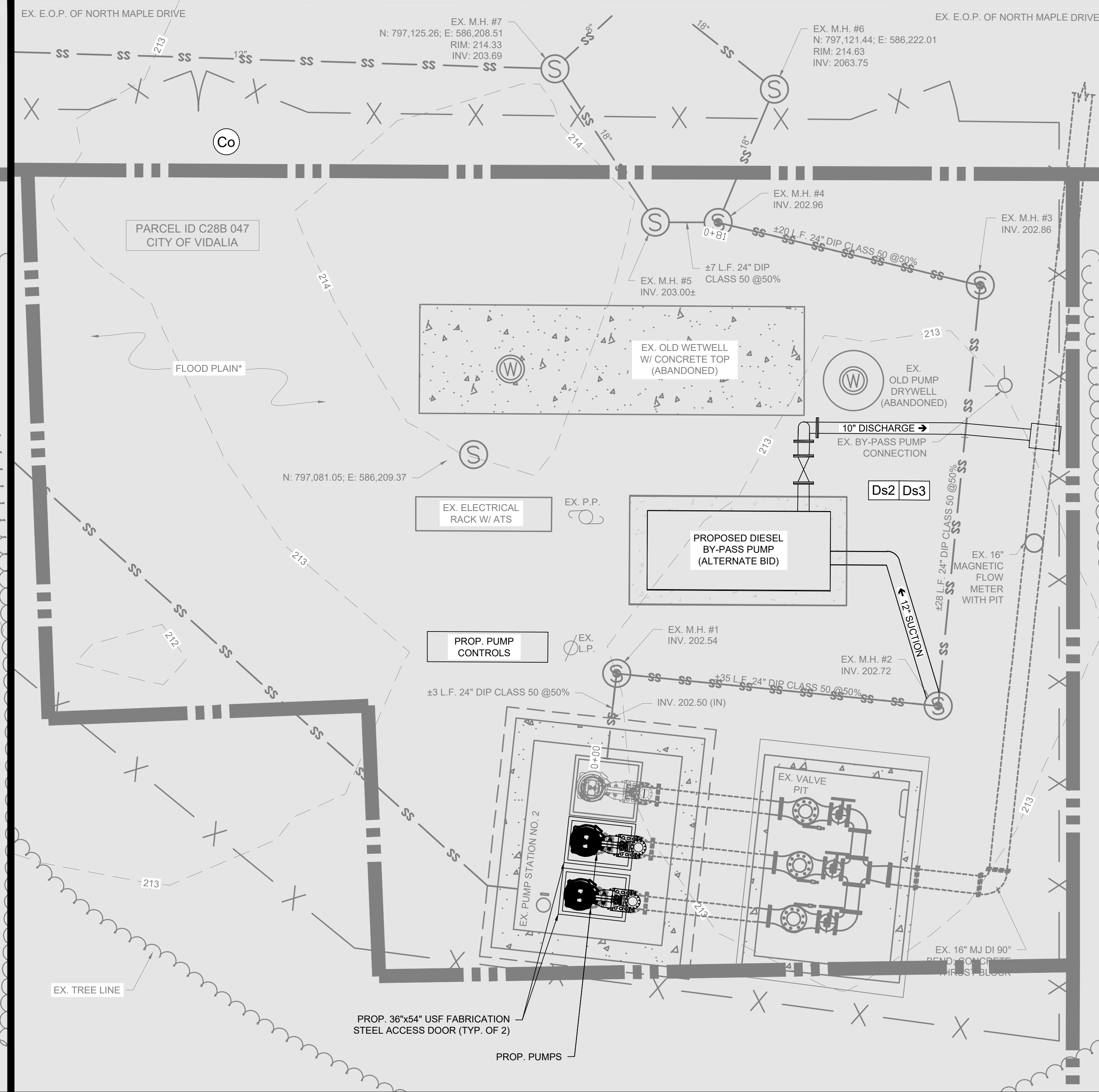
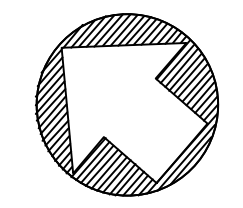
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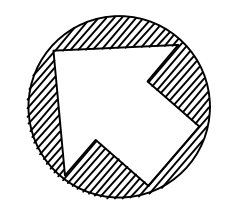
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**LIFT STATION 2 DEMOLITION PLAN**  
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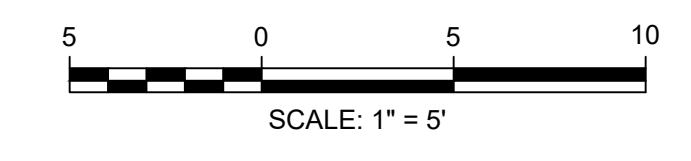


**LIFT STATION 2 IMPROVEMENT PLAN**  
SCALE: 1" = 5'



- NOTE:**
- CONTRACTOR TO PROVIDE TEMPORARY POWER AND/OR BY-PASS PUMPING AS NEEDED TO MAINTAIN A FULLY OPERATIONAL LIFT STATION AT ALL TIMES DURING CONSTRUCTION.
  - ALL DEBRIS/TRASH RESULTING FROM DEMOLITION OF THE EXISTING STORAGE BUILDING SHALL BE TRANSPORTED AND DISPOSED OF BY THE CONTRACTOR AT AN APPROPRIATE WASTE DISPOSAL SITE

\*BASE FLOOD ELEVATION = 214.00  
(ENTIRE SITE IN FLOOD PLAIN)



**ESG ENGINEERING**

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**LIFT STATIONS 2, 6, & 26  
AND COLLECTION SYSTEM  
REHABILITATION  
FOR THE  
CITY OF VIDALIA**

**REVISIONS**

NO.	DESCRIPTION	DATE

**BID SET**



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**DATE:** MAR 2024  
**SCALE:** AS NOTED

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**LIFT STATION 2  
PLAN AND DETAILS**

**SHEET NO:**  
**C1.0**



NO.	REVISIONS	DESCRIPTION	DATE

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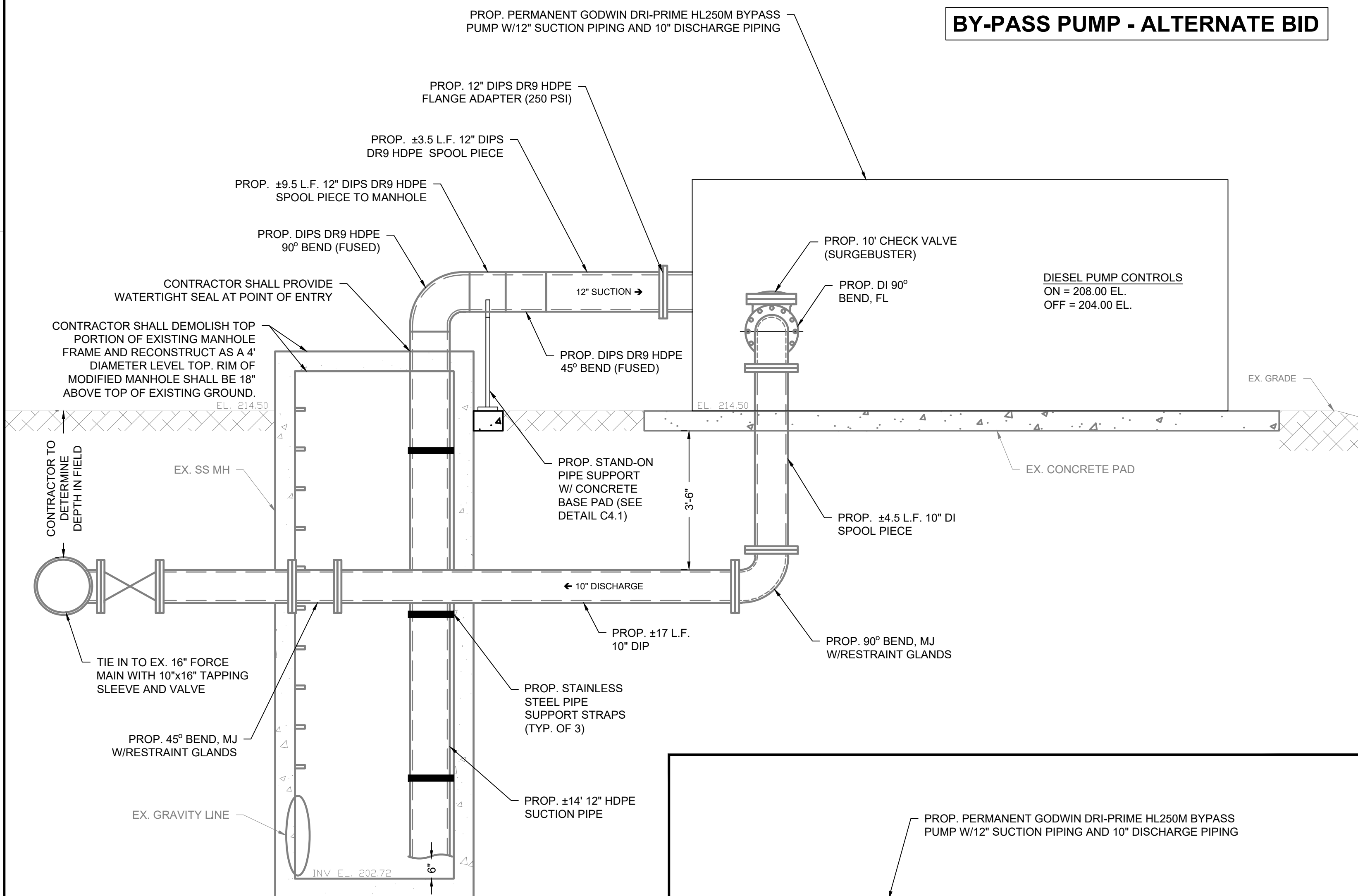


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**DATE:** MAR 2024  
**SCALE:** AS NOTED

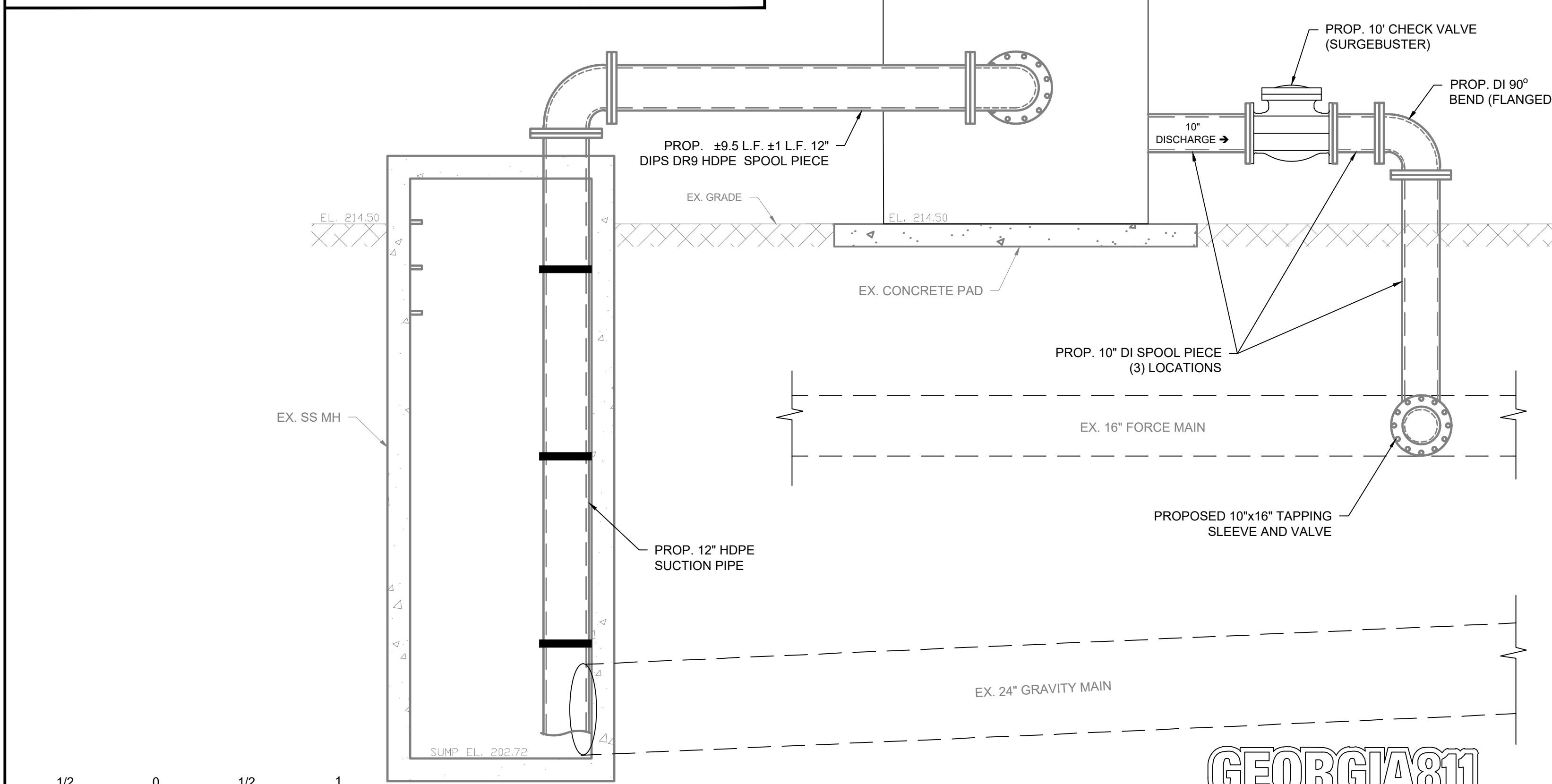
**CONTENT:**  
LIFT STATION 2  
SECTIONS AND  
DETAILS

**SHEET NO:**  
**C1.1**

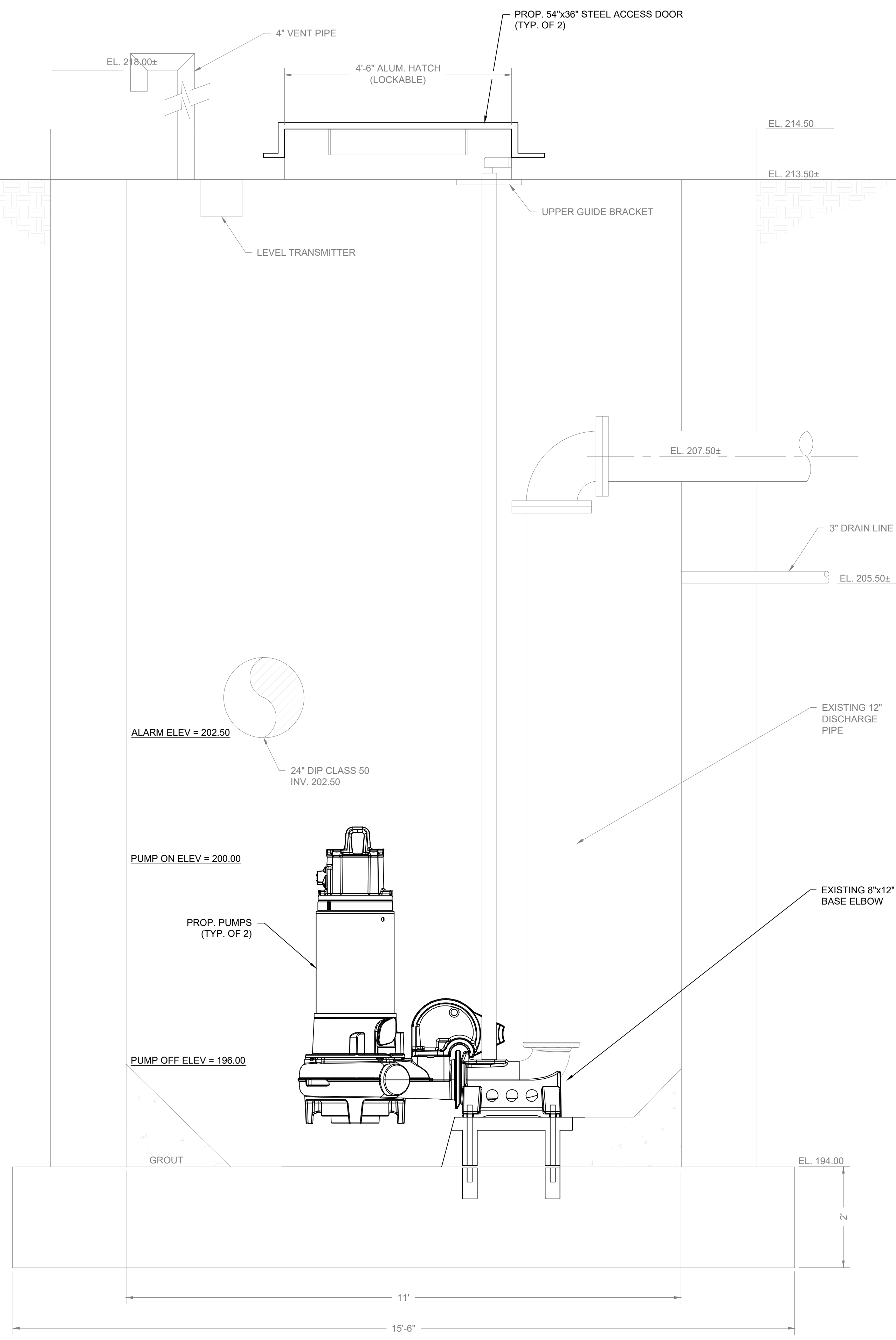
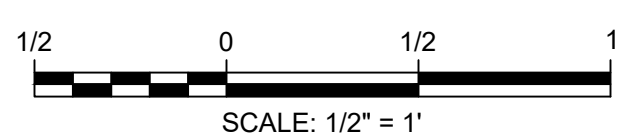
**BY-PASS PUMP - ALTERNATE BID**



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



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

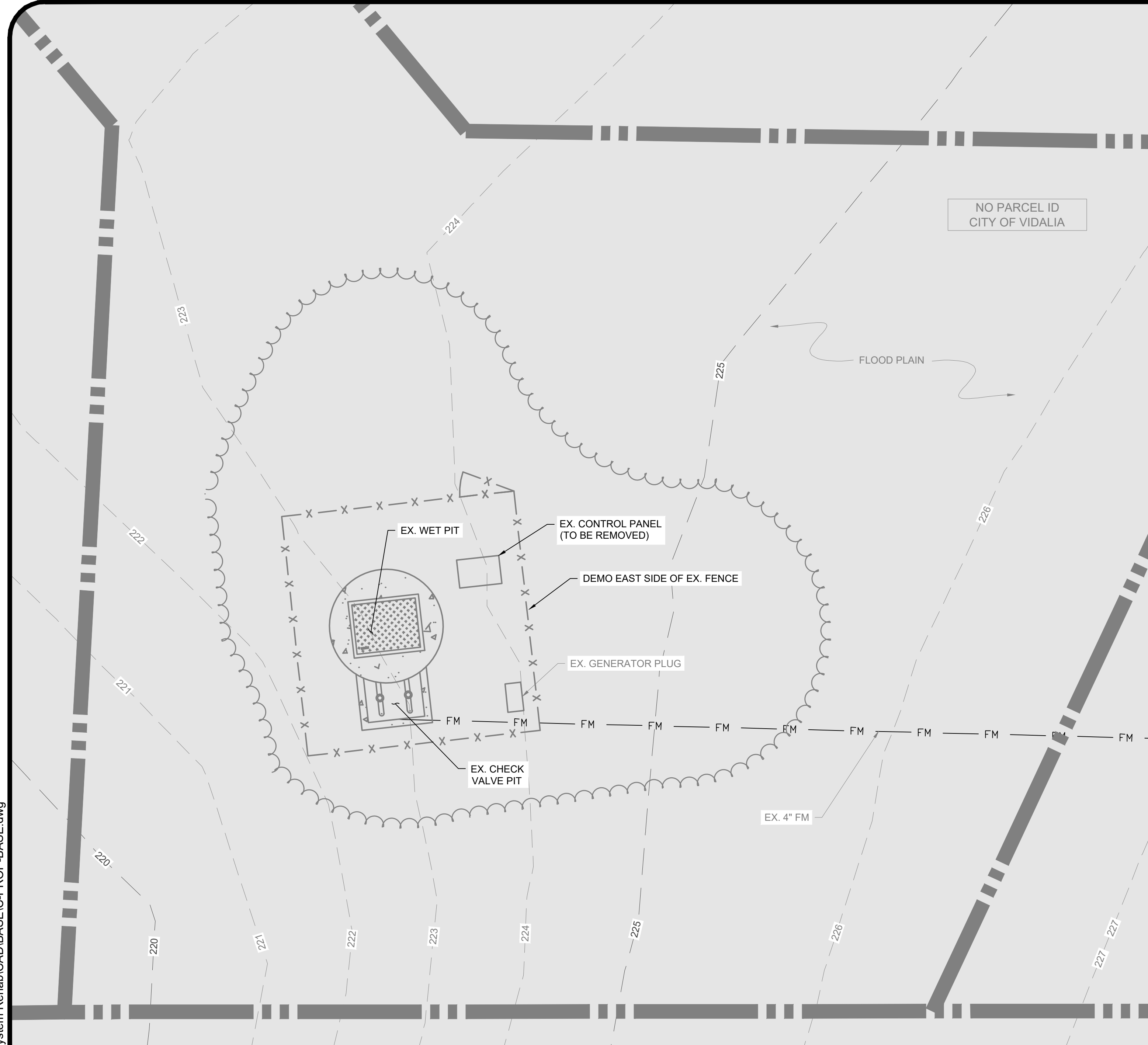


**DIVISION II**  
**SECTION - PUMP STATION NO. 2**  
SCALE: 3/4" = 1'

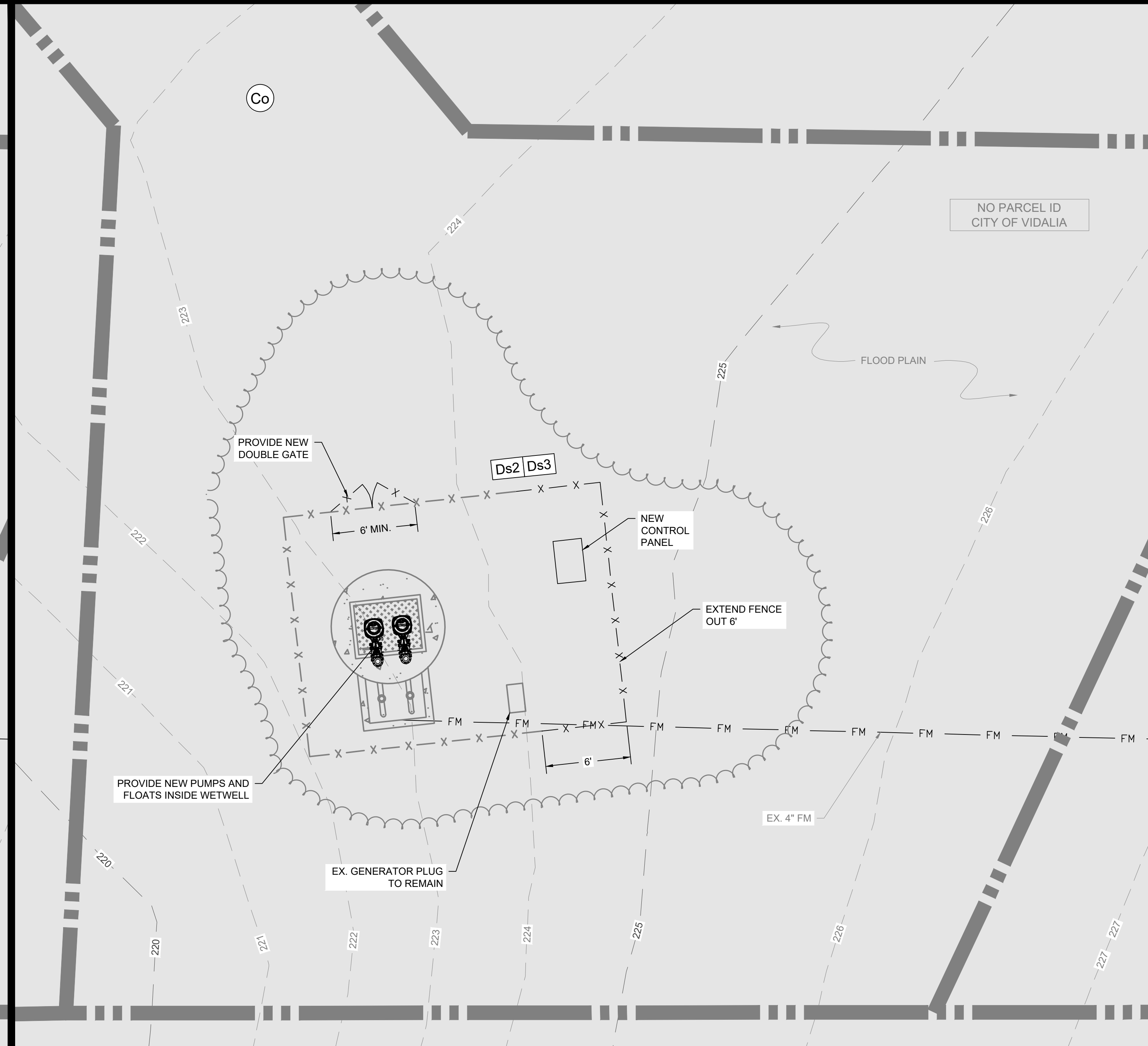
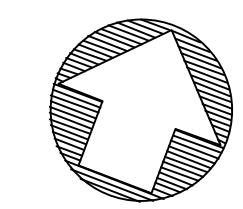


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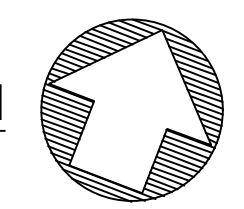
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**LIFT STATION 6 DEMOLITION PLAN**  
SCALE: 1" = 5'

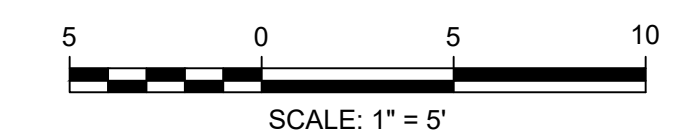


**LIFT STATION 6 IMPROVEMENT PLAN**  
SCALE: 1" = 5'



- NOTE:**
1. CONTRACTOR TO INSTALL FORCE MAIN EXTENSION PRIOR TO COMPLETING PUMP UPGRADES.
  2. CONTRACTOR TO COORDINATE WITH GEORGIA POWER TO BRING 3-PHASE POWER TO SITE.
  3. CONTRACTOR TO PROVIDE TEMPORARY POWER AND OR BY-PASS PUMPING AS NEEDED TO MAINTAIN AN OPERATIONAL LIFT STATION AT ALL TIMES DURING CONSTRUCTION.

\*BASE FLOOD ELEVATION = 223.60  
(ENTIRE SITE IN FLOOD PLAIN)



**LIFT STATIONS 2, 6, & 26  
AND COLLECTION SYSTEM  
REHABILITATION**  
FOR THE  
CITY OF VIDALIA

NO.	REVISIONS	DESCRIPTION	DATE

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**SCALE:** AS NOTED

**CONTENT:**  
LIFT STATION 6  
PLAN AND DETAILS

**SHEET NO:**  
**C2.0**



NO.	REVISIONS	DATE

**BID SET**

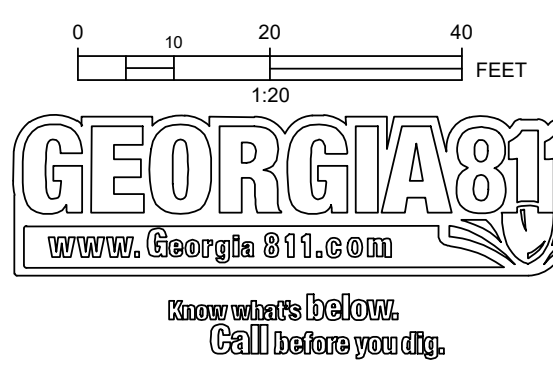
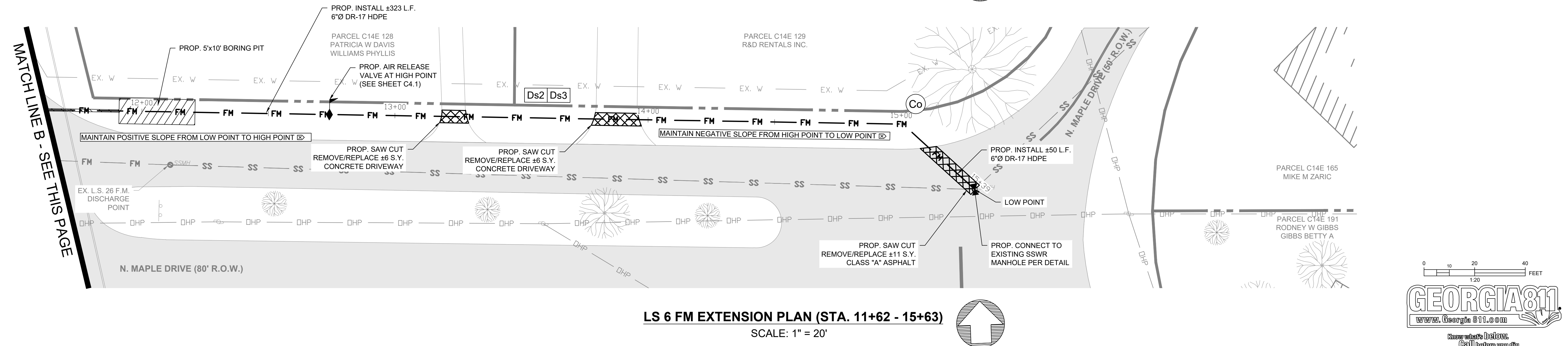
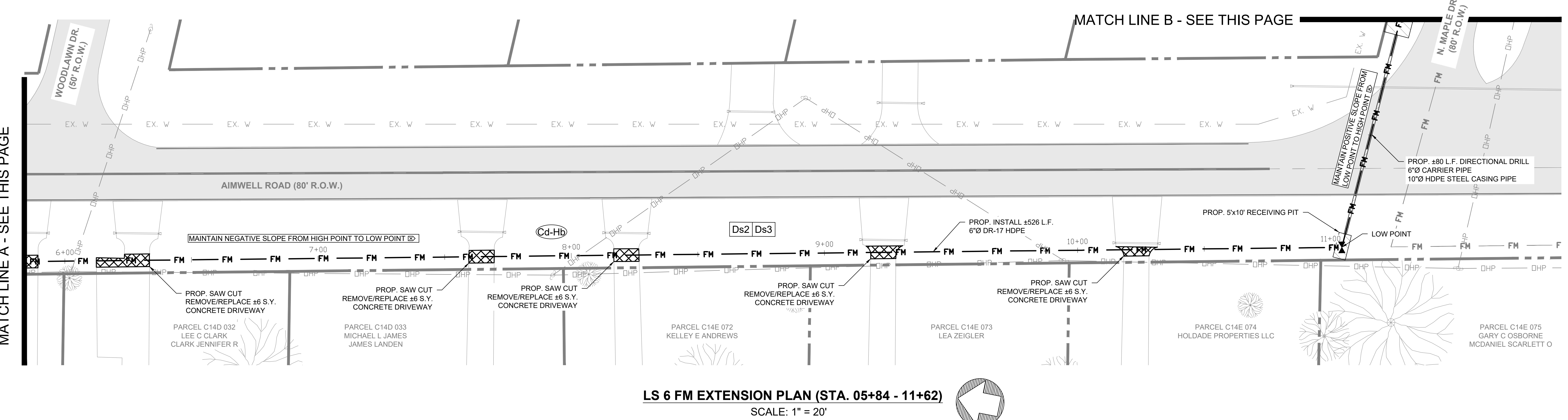
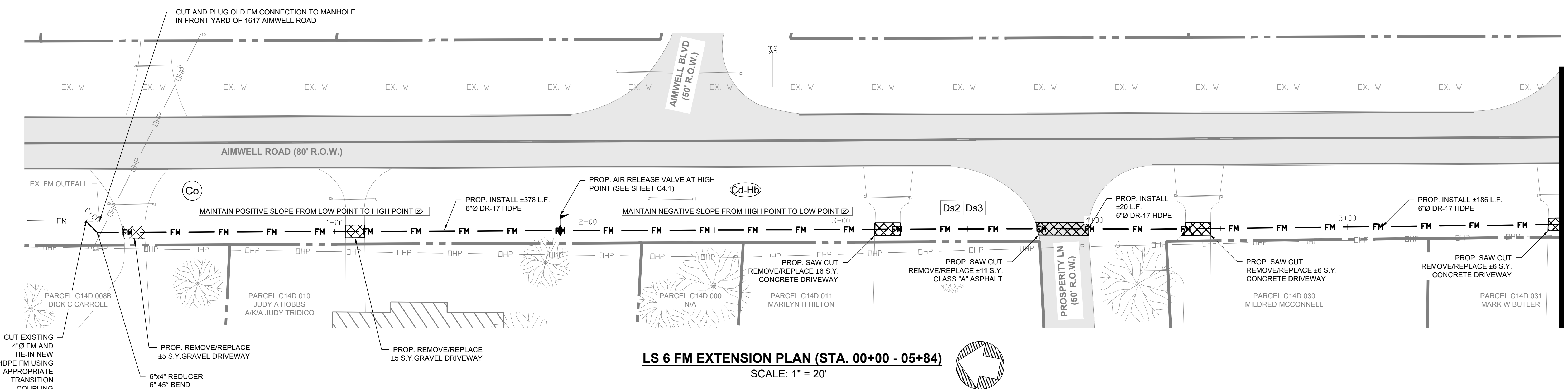


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**DATE:** MAR 2024  
**SCALE:** 1" = 20'

**CONTENT:**  
**LIFT STATION 6  
FORCE MAIN  
EXTENSION**

**SHEET NO:**

**C2.1**



MATCH LINE A - SEE THIS PAGE

MATCH LINE B - SEE THIS PAGE

MATCH LINE A - SEE THIS PAGE

MATCH LINE B - SEE THIS PAGE

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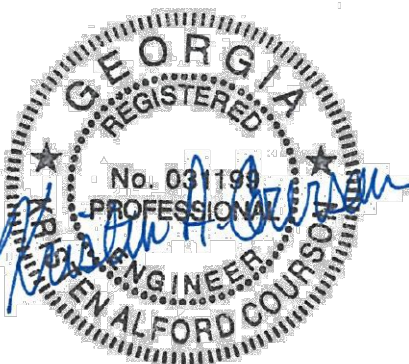




**LIFT STATIONS 2, 6, & 26  
AND COLLECTION SYSTEM  
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FOR THE  
CITY OF VIDALIA**

NO.	DESCRIPTION	DATE

**BID SET**



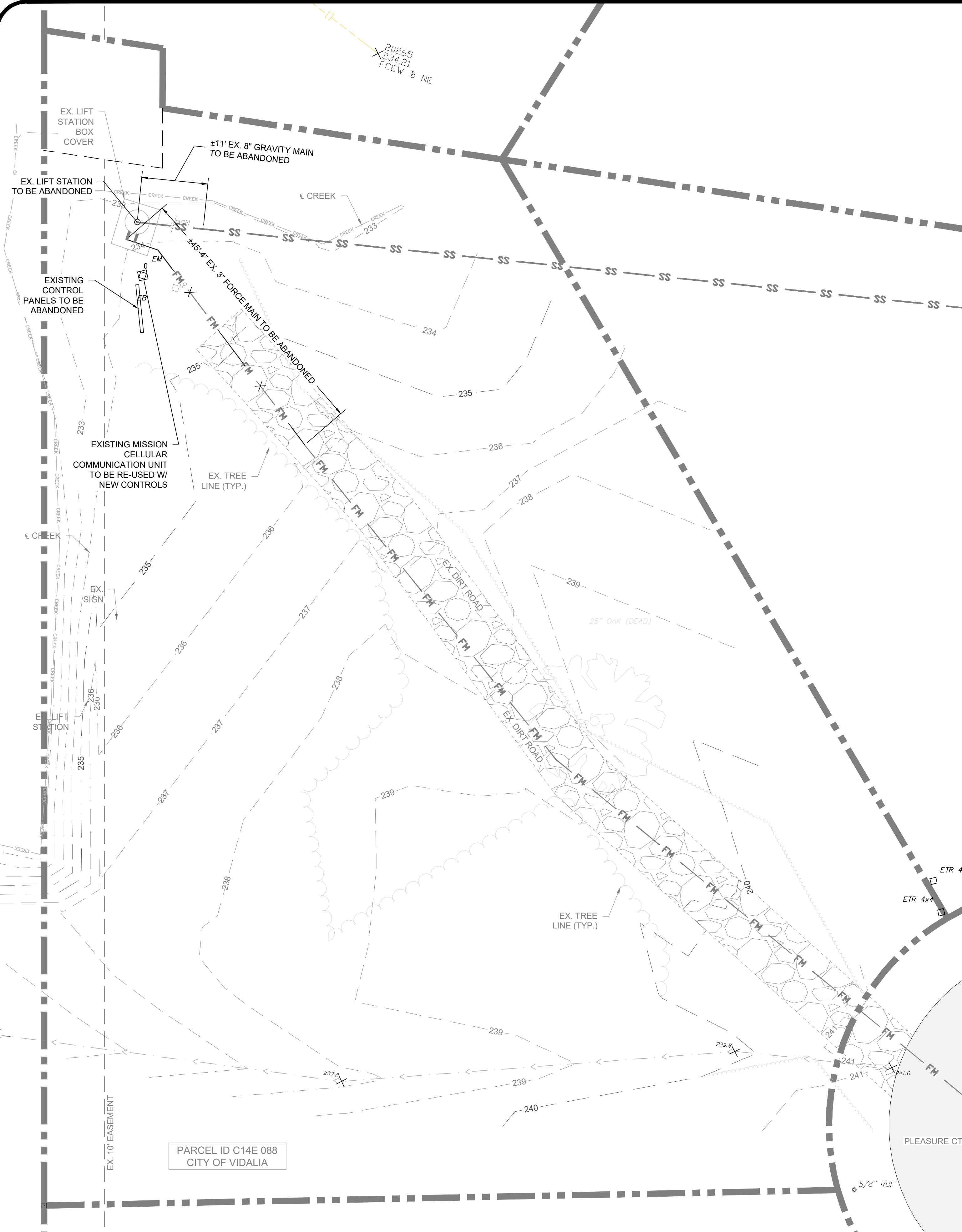
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LIFT STATION 26  
SITE DEMOLITION  
PLAN

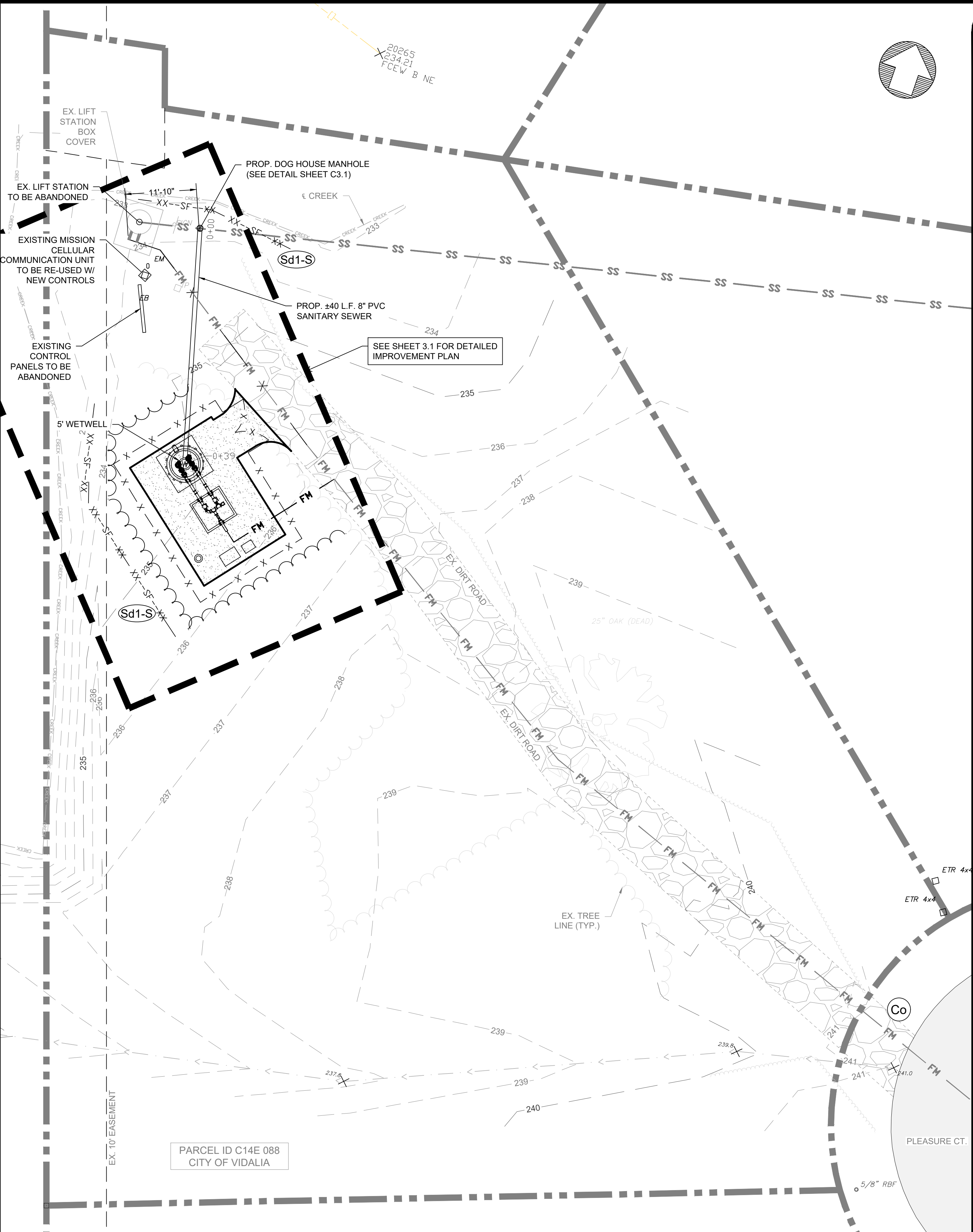
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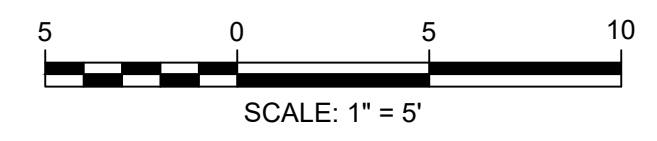
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**LIFT STATION 26 DEMOLITION PLAN**  
SCALE: 1" = 5'



**LIFT STATION 26 IMPROVEMENT PLAN**  
SCALE: 1" = 5'



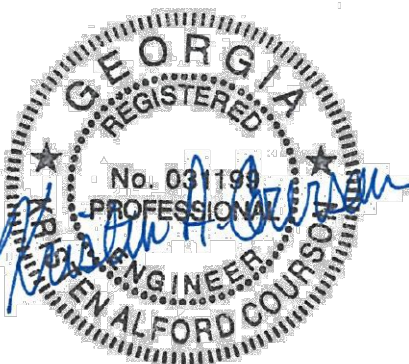
NOTE: LIFT STATION #26 IS NOT LOCATED INSIDE OF FLOOD PLAIN.



**LIFT STATIONS 2, 6, & 26  
AND COLLECTION SYSTEM  
REHABILITATION  
FOR THE  
CITY OF VIDALIA**

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**BID SET**

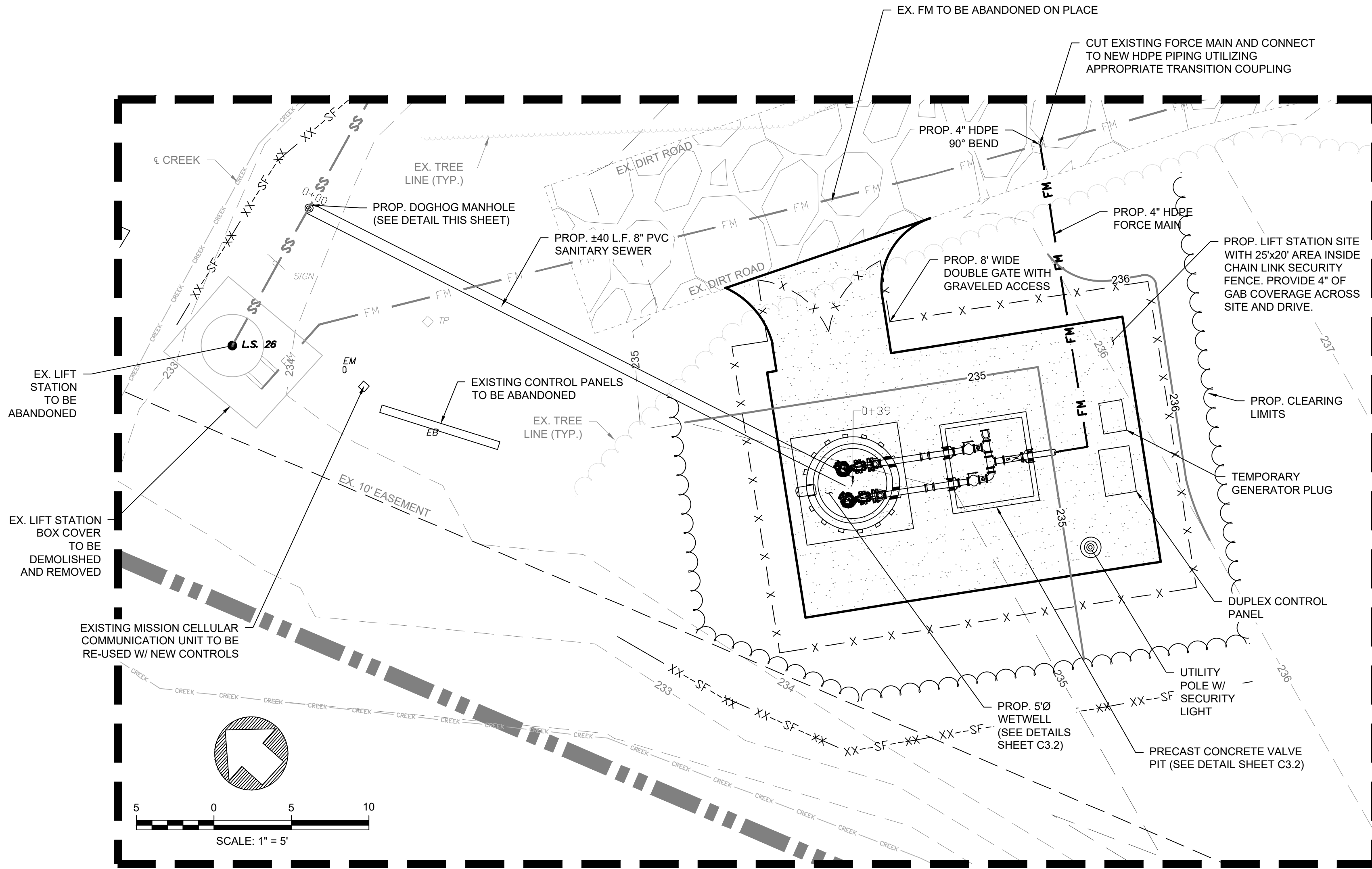


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DATE: MAR 2024  
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LIFT STATION 26  
DETAILED SITE  
IMPROVEMENT PLAN,  
PROFILE, AND DETAIL

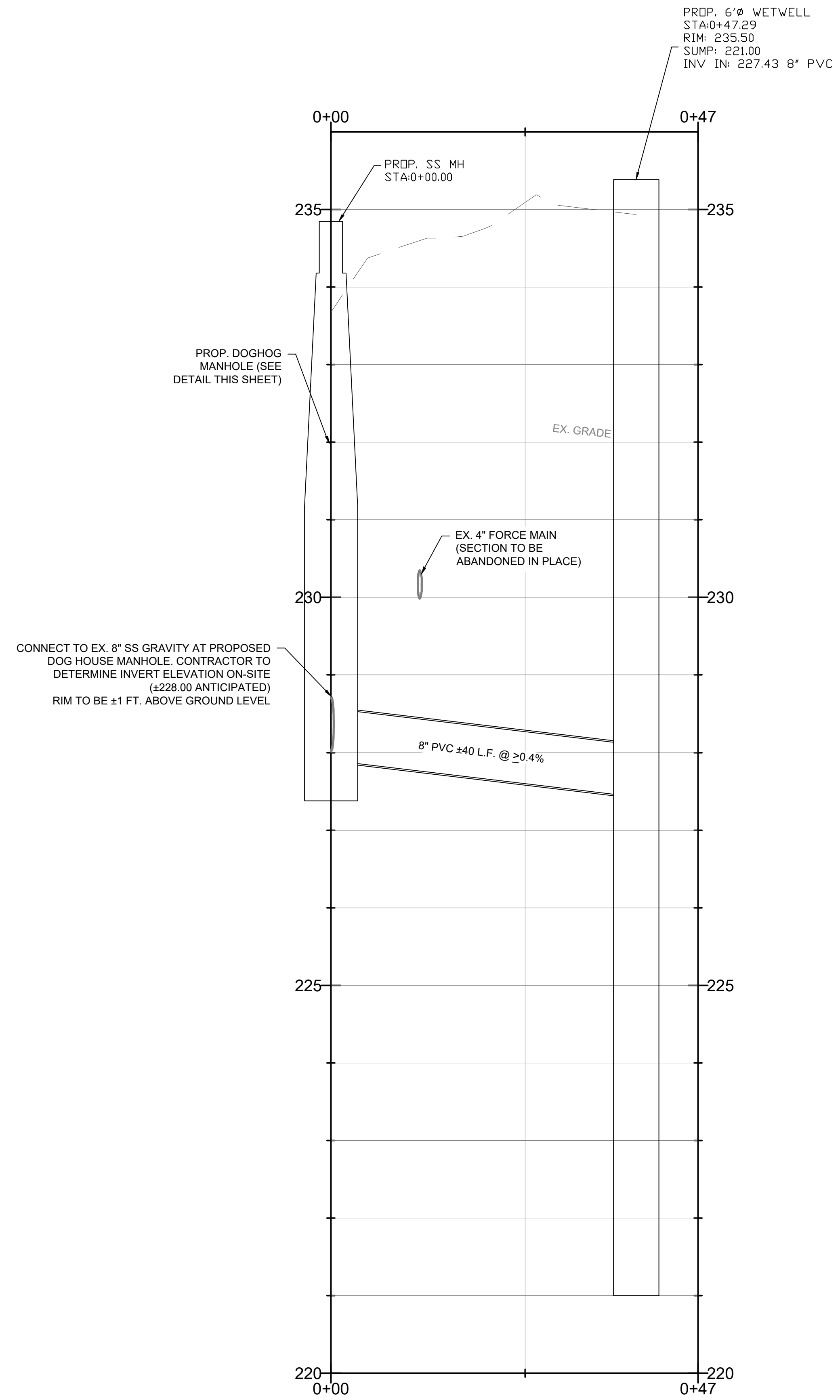
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**LIFT STATION 26 DETAILED IMPROVEMENT PLAN**

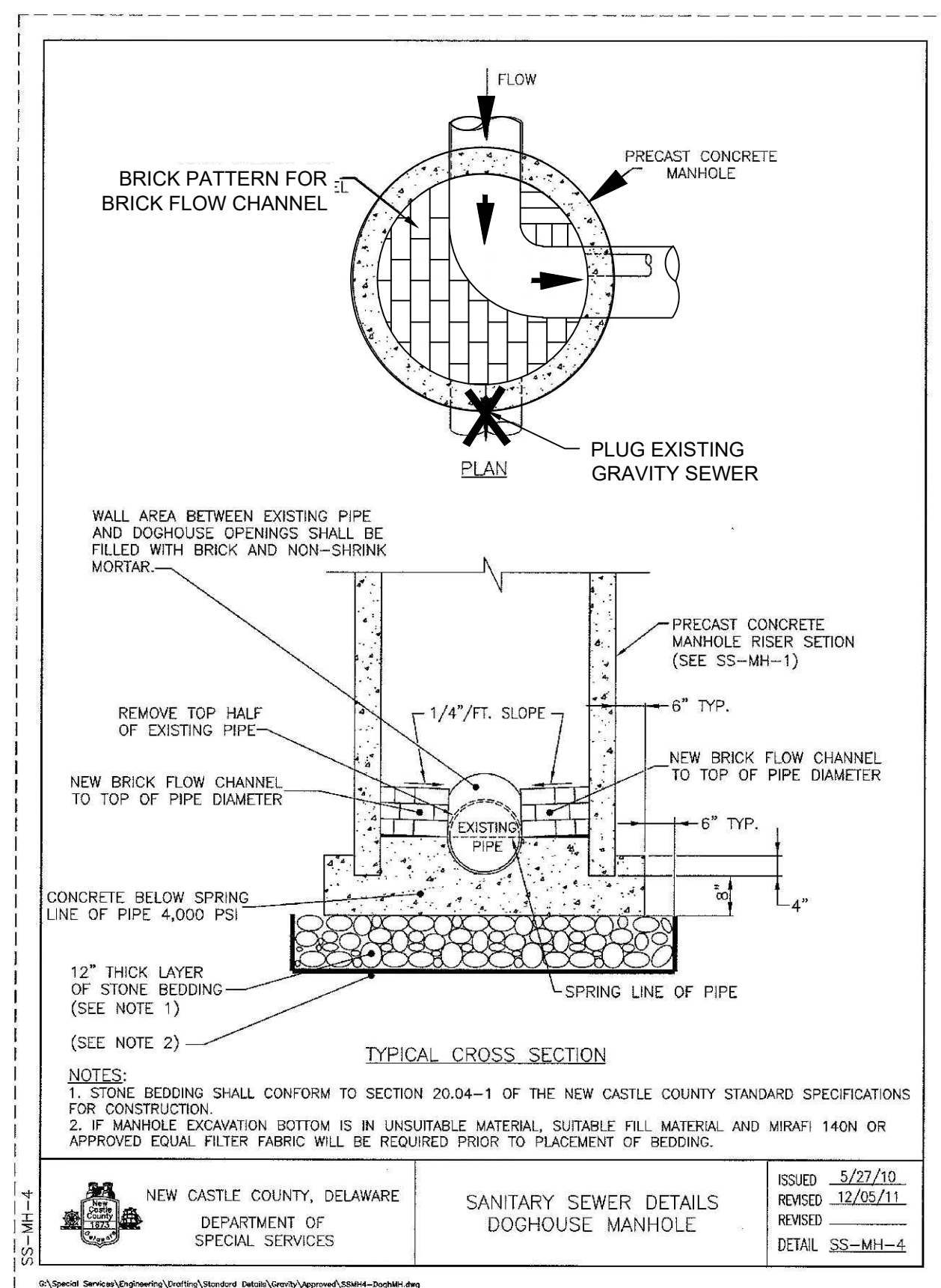
SCALE: 1" = 5'



**LIFT STATION 26 PROFILE**

H: 1" = 1'  
V: 1" = 10'

SCALE: 1" = 1'



NOTE: LIFT STATION #26 IS NOT LOCATED INSIDE OF FLOOD PLAIN.



Know what's below.  
Call before you dig.



NO.	REVISIONS	DESCRIPTION	DATE

**BID SET**

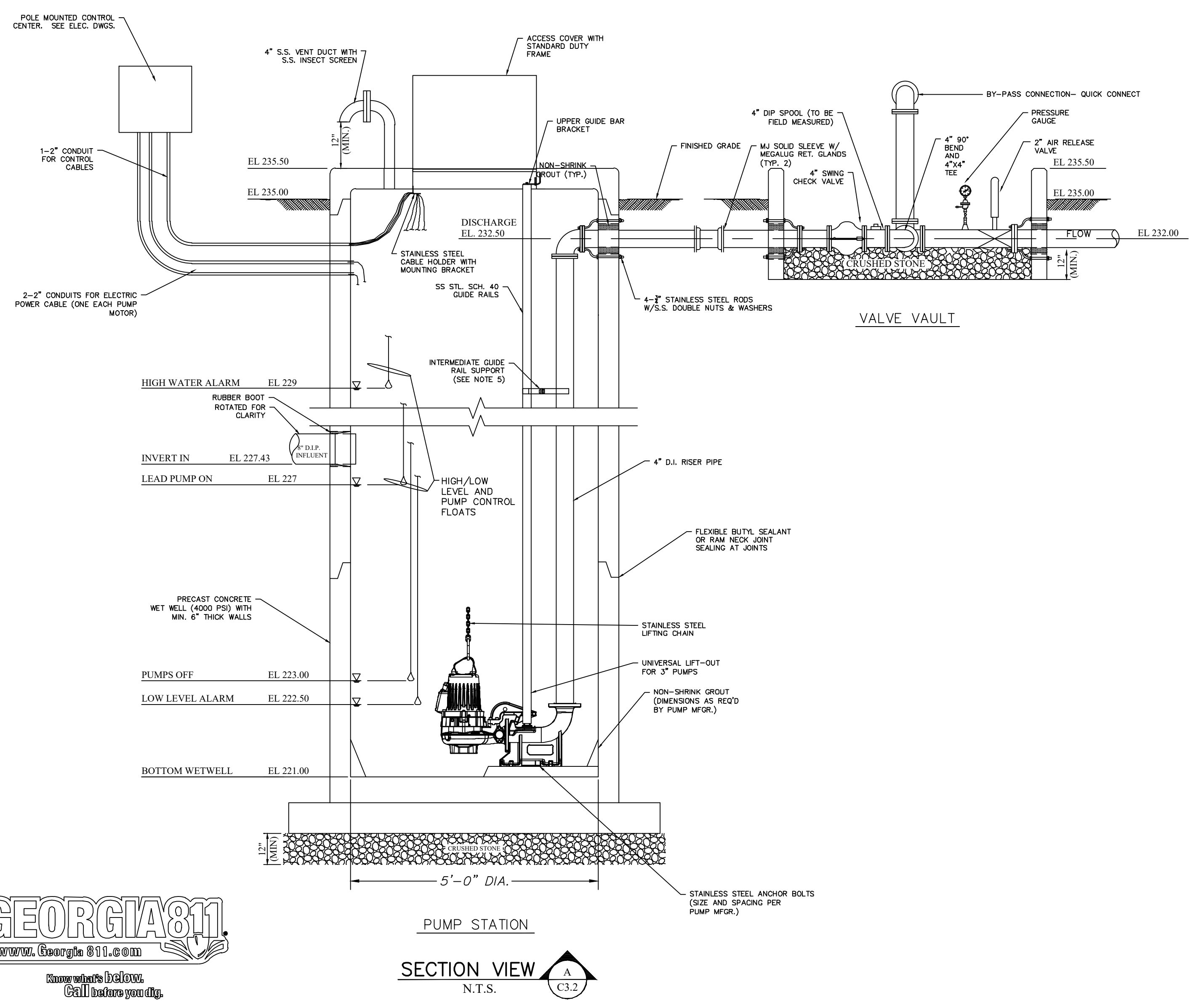
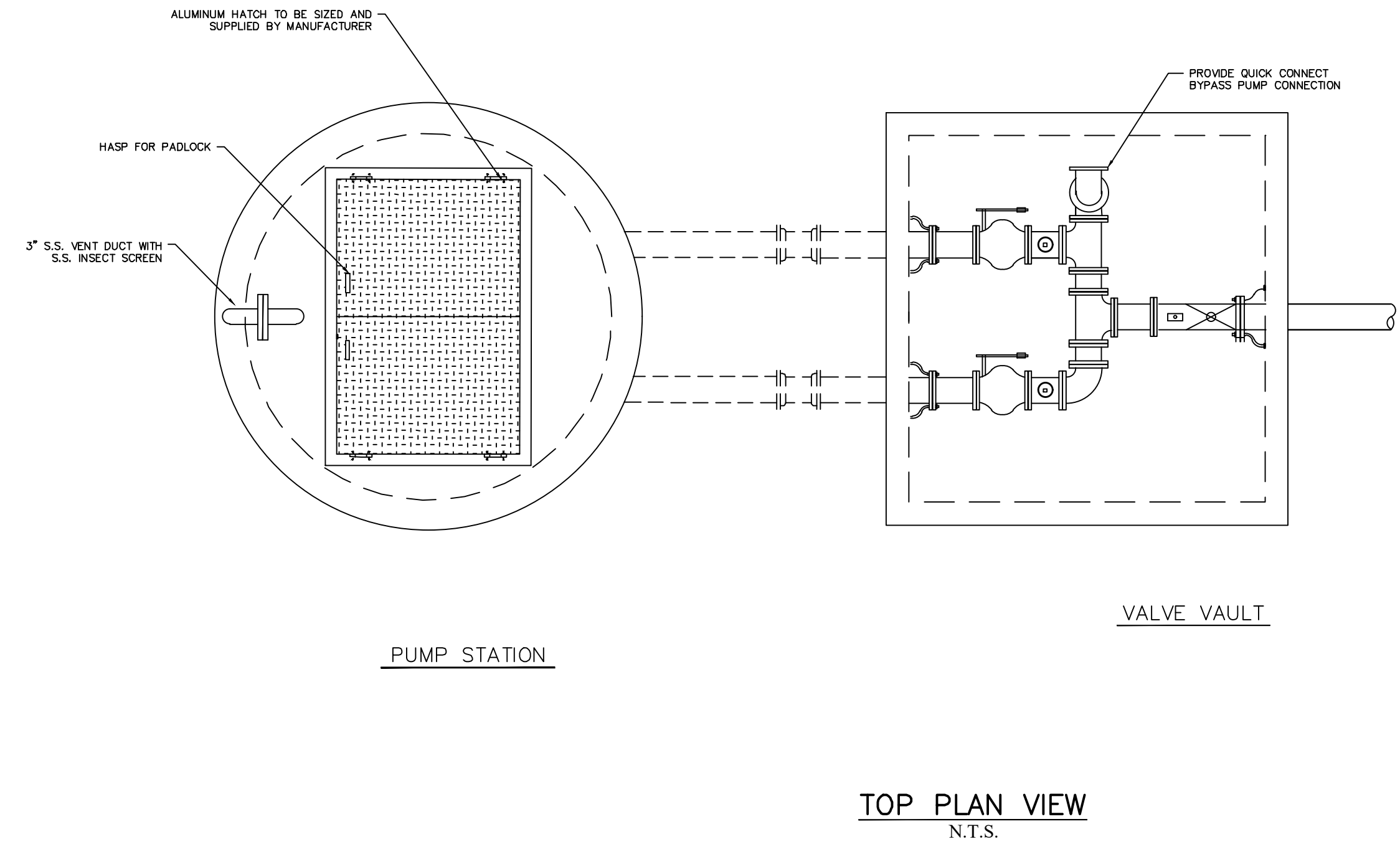
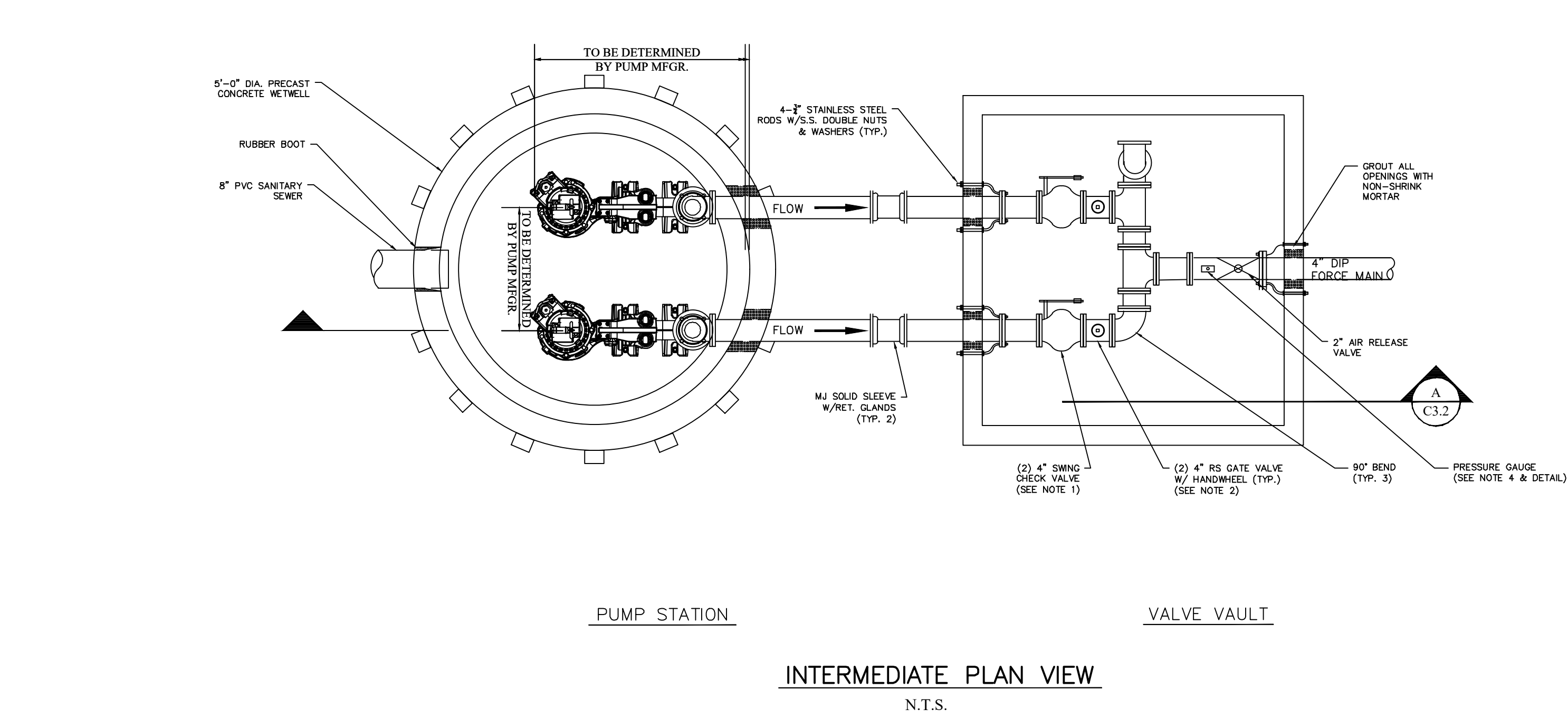


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LIFT STATION 26  
PLAN, SECTION, AND  
DETAILS

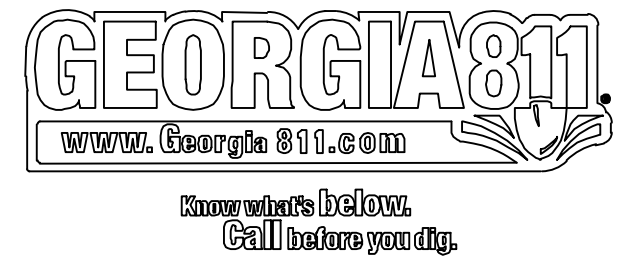
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**C3.2**



**NOTES:**

- CHECK VALVES SHALL BE 4" SURGEBUSTER SWING CHECK VALVES SERIES 7200 AS MANUFACTURED BY VAL-MATIC VALVE CORP., OR APPROVED EQUAL.
- GATE VALVES SHALL BE 4" RESILIENT SEAT GATE VALVES WITH HANDWHEEL (TYPICAL).
- ALL LIFT STATION SITE PIPING TO BE DUCTILE IRON. FORCE MAIN TO BE HDPE. TRANSITION COUPLING SHALL BE MINIMUM 4'-0" OUTSIDE VALVE BOX.
- PRESSURE GAUGES SHALL BE TOP MOUNTED AND REQUIRE A 1/4" GAUGE TAP WITH 2" GAUGE (0-100 PSI).
- PUMP STATION SHALL REQUIRE THE FOLLOWING:
  - 2-FLYGT MODEL NP 3085 SH SUBMERSIBLE WASTEWATER PUMPS w/ 125mm IMPELLER COMPLETE WITH TANDEM MECHANICAL SHAFT SEALS, 50 FEET OF JACKETED POWER CABLE PER PUMP, AND EACH DRIVEN BY A 4.0 HP, 230 VOLT, 3 PHASE, 60 HZ, 3600 RPM MOTOR.
  - 2-4" DISCHARGE CONNECTIONS WITH HEAVY DUTY ANCHOR BOLTS
  - 2-SAFETY CHAIN HOOK ASSEMBLIES
  - 4-STAINLESS STEEL SCH. 40 GUIDE RAILS (2 EACH PUMP)
  - 2-UPPER GUIDE RAIL BRACKETS
  - 2-INTERMEDIATE GUIDE RAIL BRACKETS
  - 2-30 FEET SECTION OF GALVANIZED LIFTING CHAIN
  - 2-CABLE HOLDER ASSEMBLIES
- STEPS WILL NOT BE FURNISHED FOR WET WELL OR VALVE PIT.



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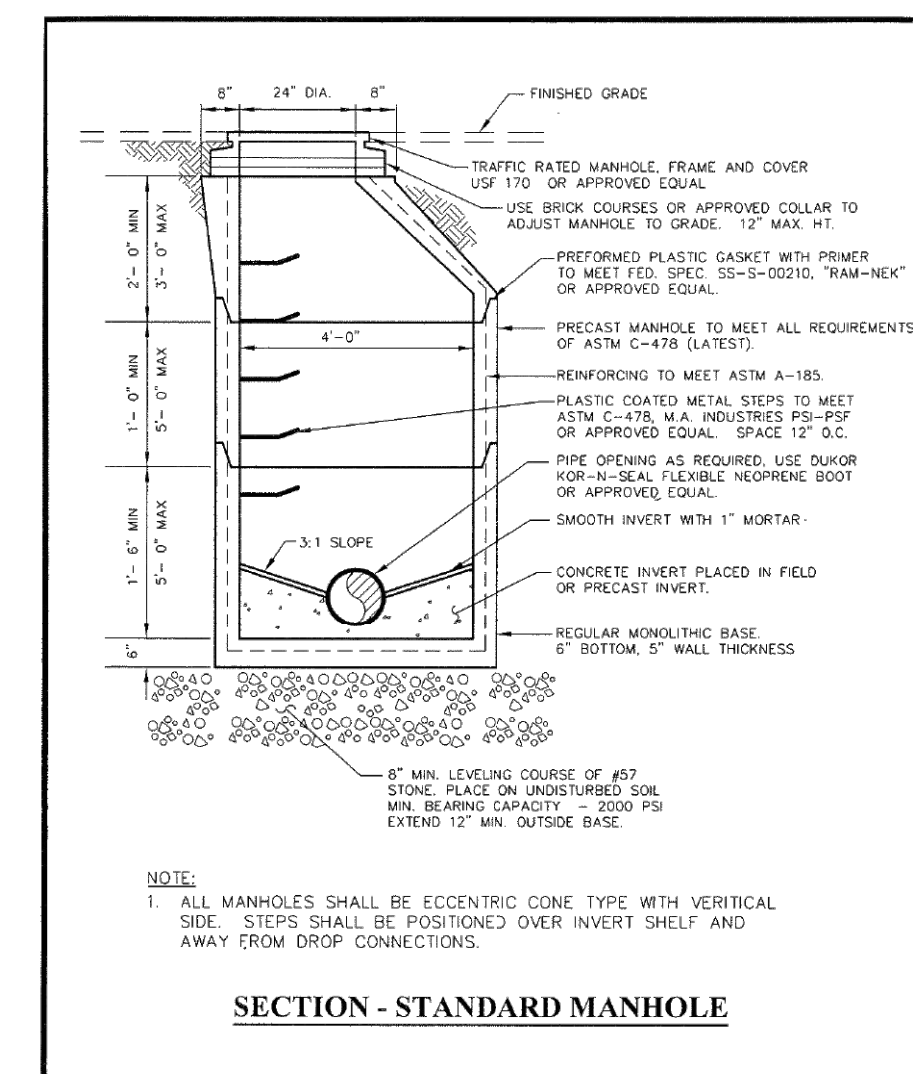
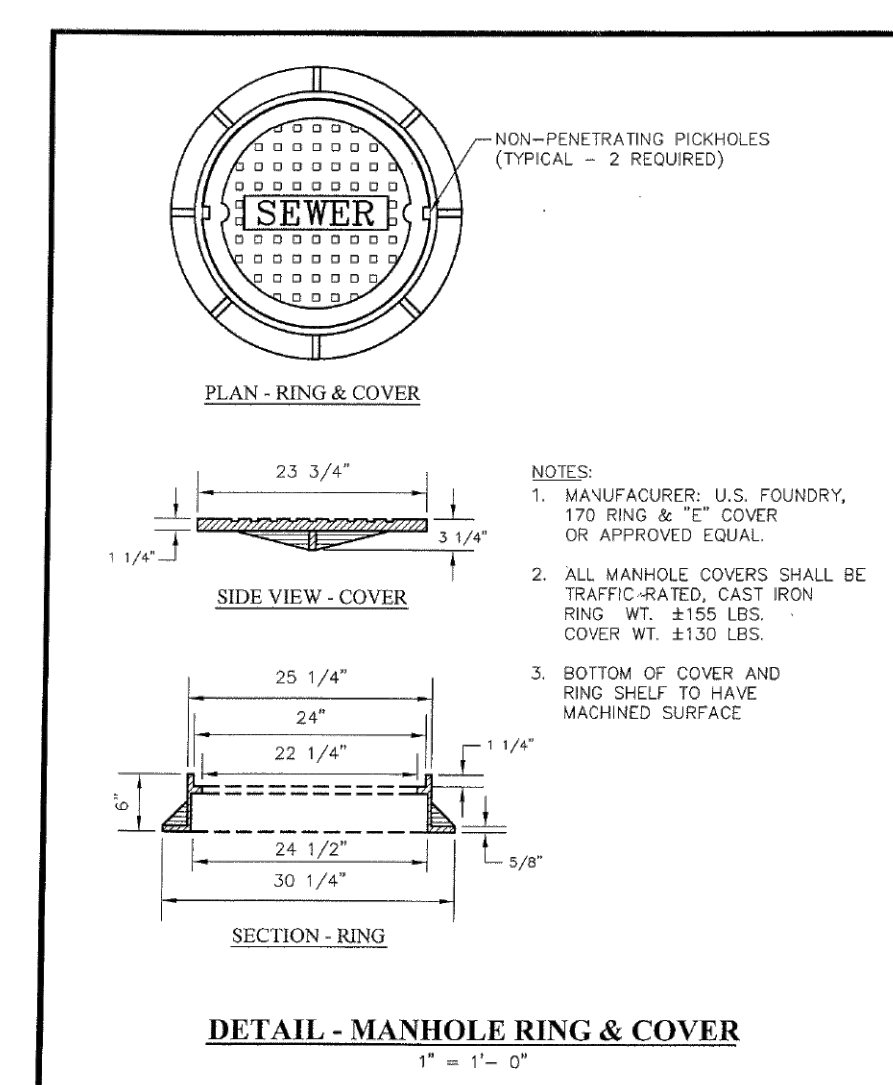
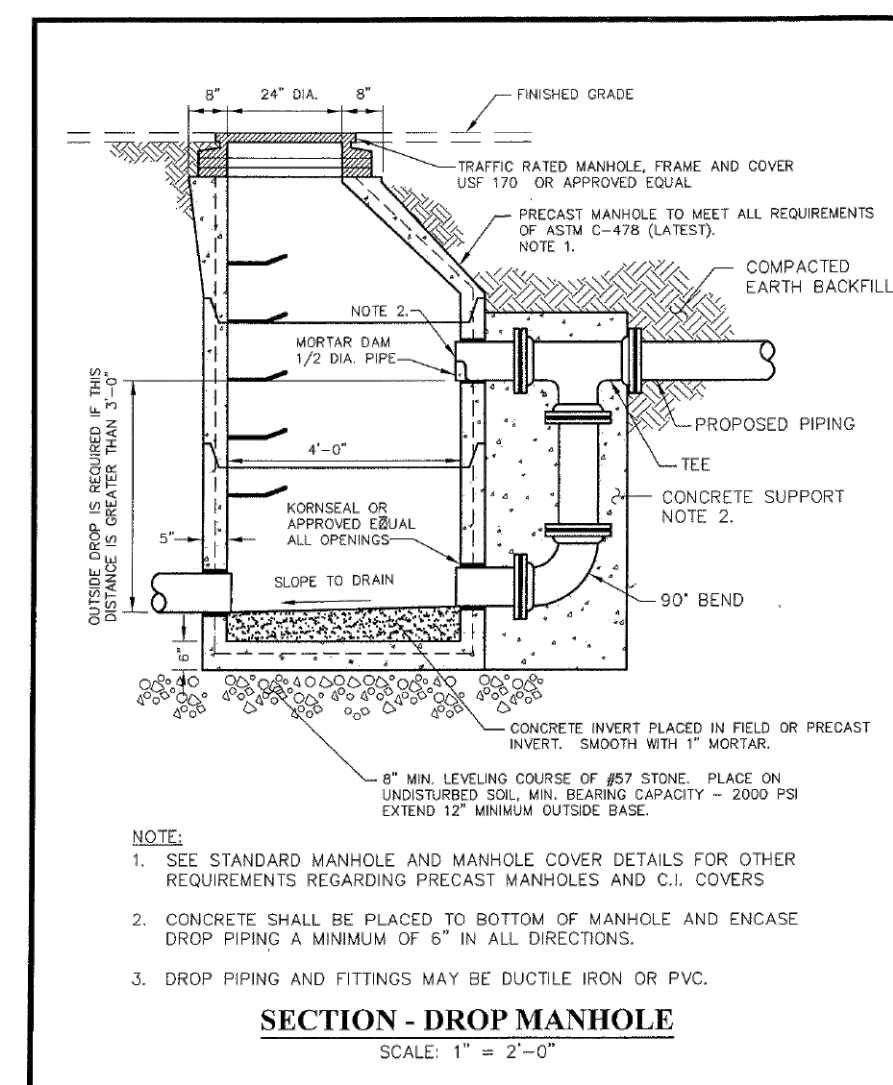
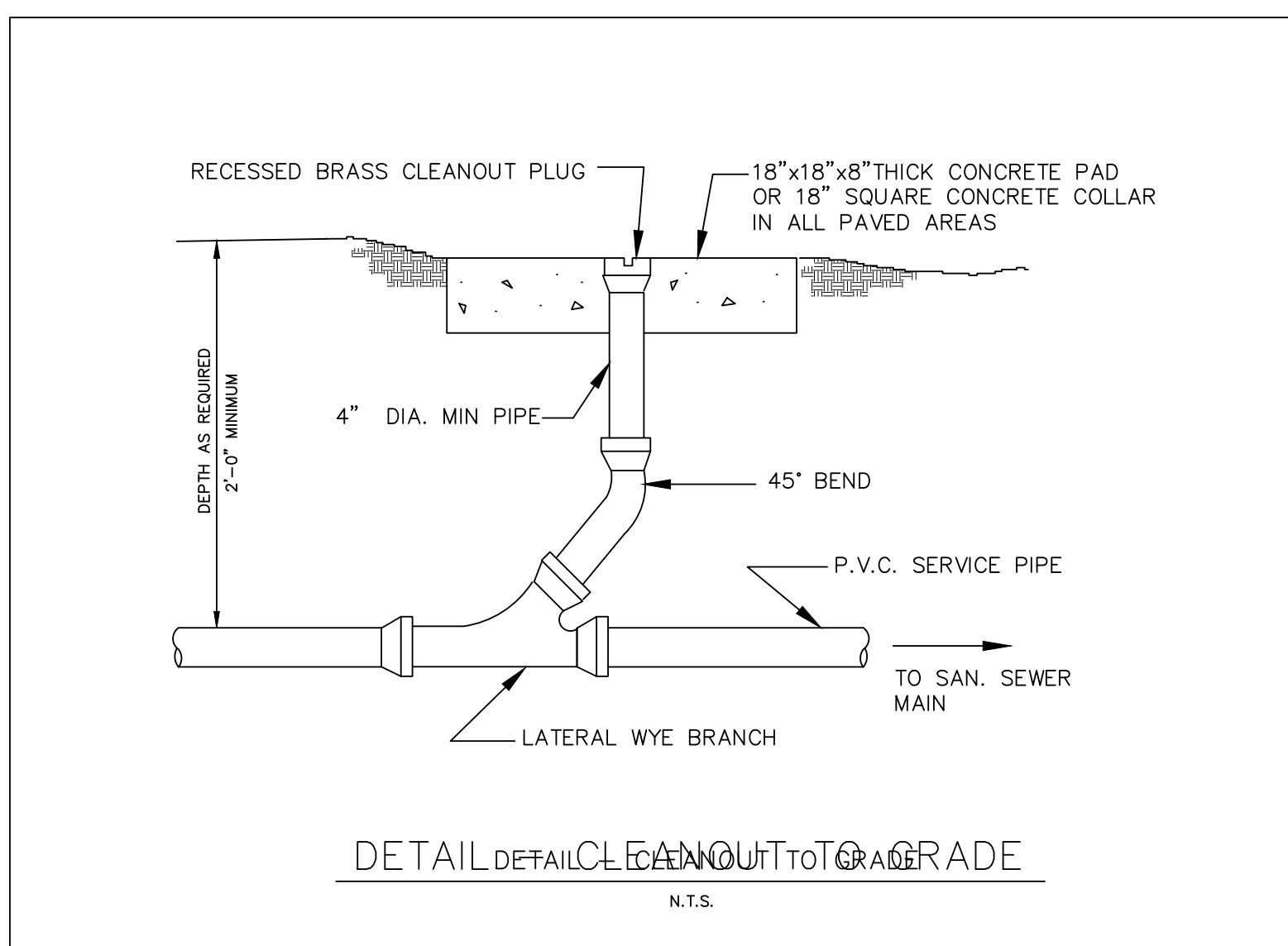
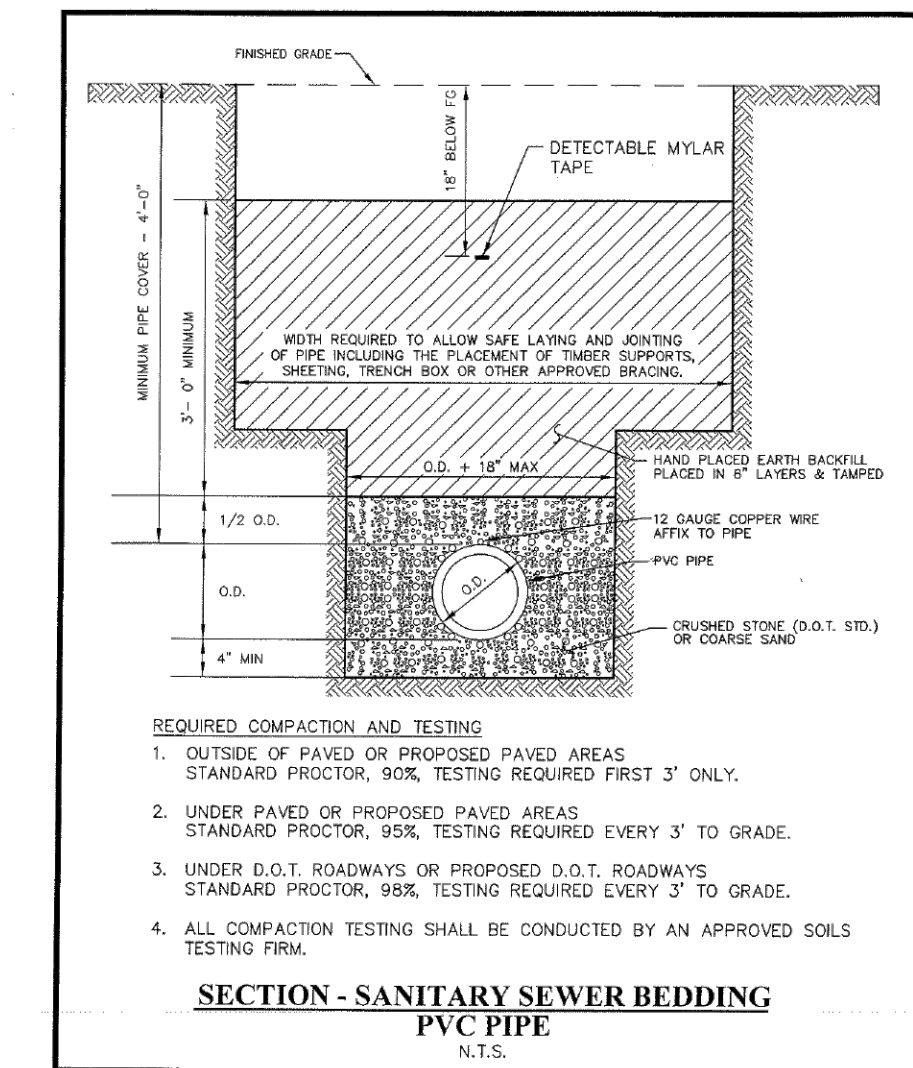
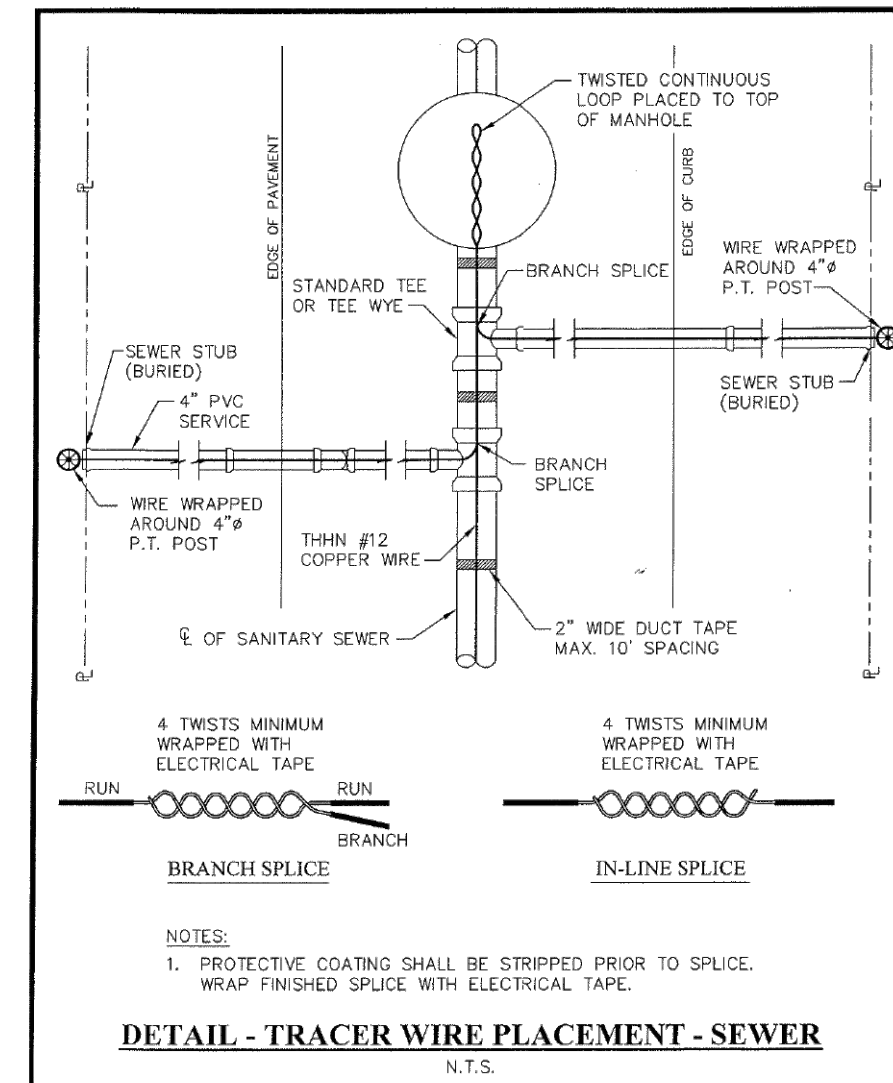
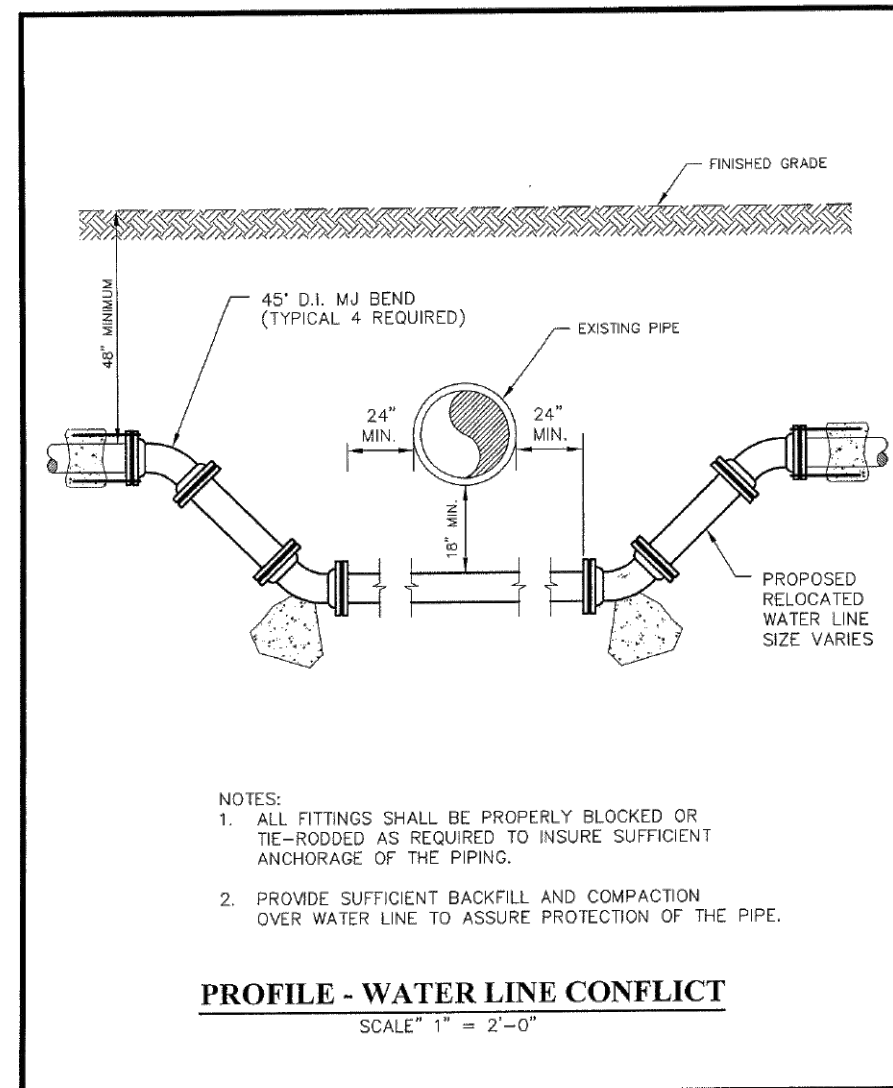
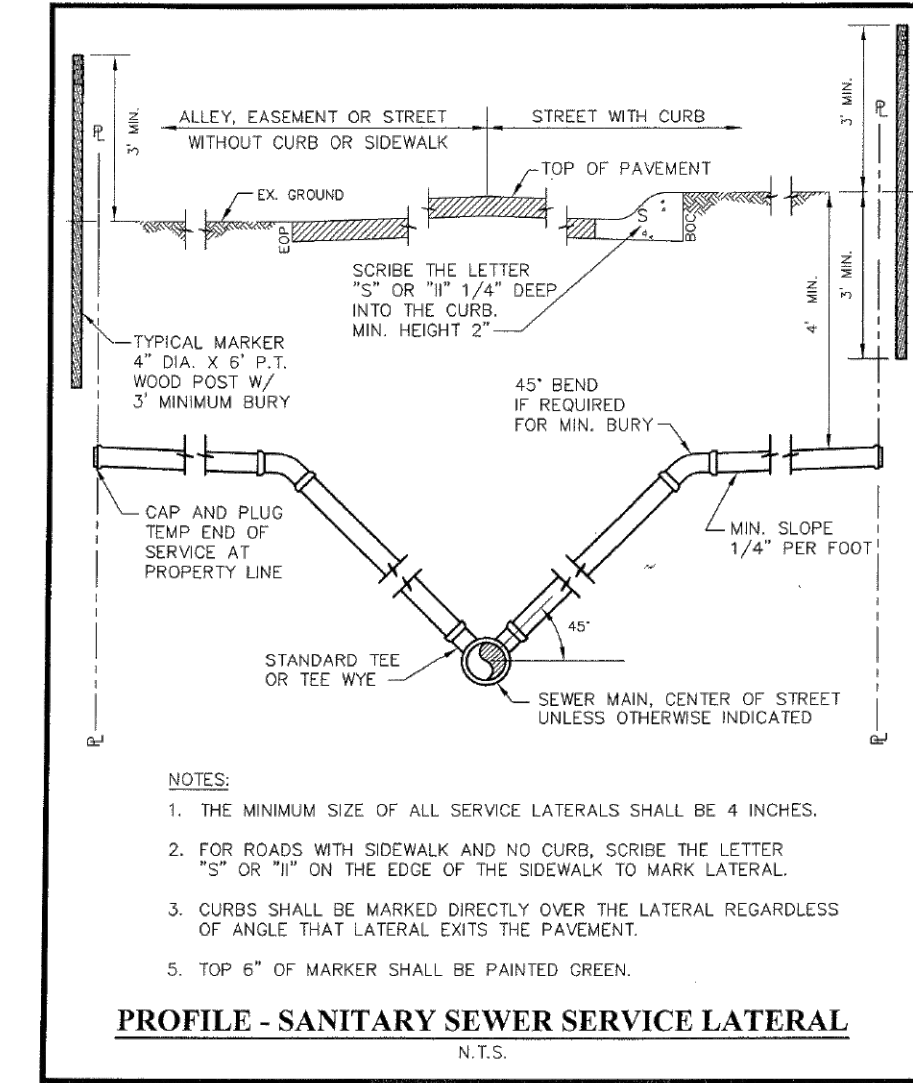
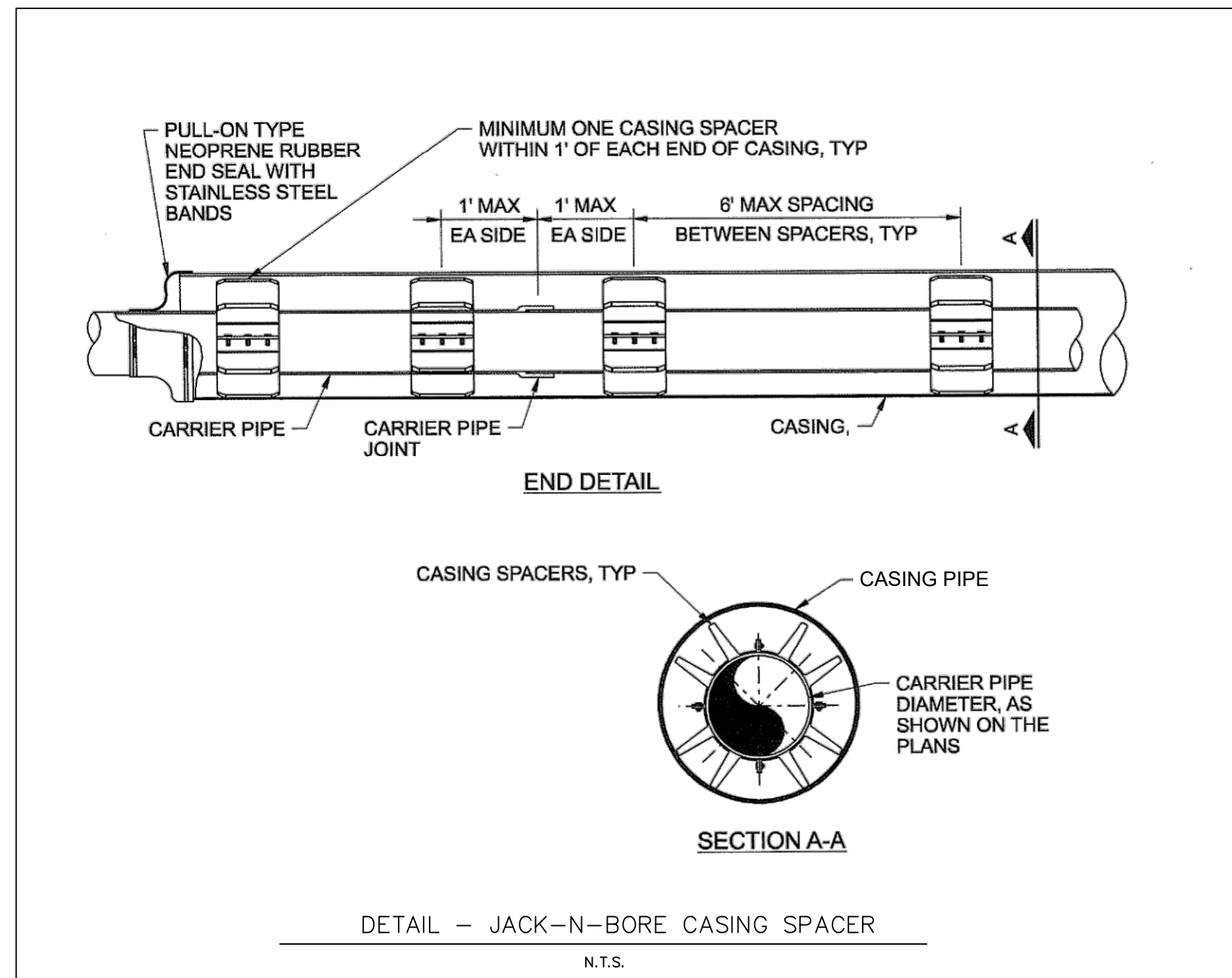
**GENERAL NOTES:**

1. WATER AND SEWER CONSTRUCTION SHALL BE PERFORMED IN ACCORDANCE WITH THE CITY OF VIDALIA "UTILITY DEPARTMENT WATER AND SEWER STANDARDS" DRAINAGE IMPROVEMENTS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE "STORMWATER LOCAL DESIGN MANUAL FOR TOOMBS COUNTY, GEORGIA", LATEST EDITION.
2. THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATIONS OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES AND WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THIS INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE APPROPRIATE UTILITY COMPANIES BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATION OF UTILITIES. THE CONTRACTOR SHALL NOTIFY THE UTILITIES PROTECTION CENTER AT 1-800-282-7411, AT LEAST 24 HOURS PRIOR TO ANY TRENCH EXCAVATION. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS. EXISTING UTILITIES BEING EXTENDED INTO THE SITE SHALL MEET ALL THE REQUIREMENTS OF THE RESPECTIVE UTILITY COMPANY. THE CONTRACTOR IS RESPONSIBLE FOR COMPLIANCE WITH ALL UTILITY COMPANY SPECIFICATIONS.
3. ALL IN-PLACE IMPROVEMENTS WILL BE PROTECTED BY THE CONTRACTOR DURING CONSTRUCTION. ANY DAMAGES WILL BE REPAIRED TO THE RESPECTIVE OWNER'S SATISFACTION BY THE CONTRACTOR AT NO ADDITIONAL COMPENSATION.
4. THE CONTRACTOR IS RESPONSIBLE FOR THE DESIGN AND IMPLEMENTATION OF ALL SHEETING, SHORING, BRACING AND SPECIAL EXCAVATION MEASURES REQUIRED TO MEET OSHA, FEDERAL, STATE AND LOCAL REGULATIONS PURSUANT TO THE INSTALLATION OF THE WORK INDICATED ON THESE DRAWINGS AS WELL AS SUBSEQUENT WORK AGREED TO BETWEEN THE OWNER AND CONTRACTOR. THE OWNER AND THE DESIGN ENGINEER ACCEPT NO RESPONSIBILITY FOR THE DESIGN(S) TO INSTALL SAID ITEMS.
5. NO WORK SHALL BEGIN ON THIS PROJECT WITHOUT AT LEAST 24 HOURS ADVANCE NOTIFICATION TO THE OWNER, THE CITY OF VIDALIA UTILITY DEPARTMENT, AND THE ENGINEER. IN ADDITION, NO WORK IS TO TAKE PLACE WITHOUT AN APPROVED SET OF PLANS AND SPECIFICATIONS ON THE JOB SITE. WORK IS TO BE COORDINATED WITH ALL OTHER CONSTRUCTION ACTIVITIES.
6. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO INSURE THAT ALL REQUIRED PERMITS ARE OBTAINED AND IN HAND PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.
7. THE CONTRACTOR SHALL MAKE HIS OWN DETERMINATION OF ALL SURFACE AND SUBSURFACE CONDITIONS. THE CONTRACTOR WITH CONSULTATION WITH THE ENGINEER SHALL TOGETHER DETERMINE WHAT, MATERIAL, IF ANY, IS TO BE WASTED.
8. AFTER THE FINAL INSPECTION HAS BEEN PERFORMED AND ALL ITEMS ARE SATISFACTORY TO THE COUNTY, AS-BUILTS SHALL BE SUBMITTED THE ENGINEER WITH A LETTER OF TRANSMITTAL. ACCEPTABLE SUBMITTALS WILL BE APPROVED IN WRITING. SUBMITTALS REQUIRING CORRECTIONS BEFORE BEING ACCEPTABLE WILL SO BE NOTED. AS-BUILTS MUST BE RESUBMITTED FOR REVIEW AND APPROVAL PRIOR TO THE LETTER OF ACCEPTANCE BEING ISSUED BY THE ENGINEER(S).

11. ALL FIELD CHANGES SHALL BE AUTHORIZED BY THE OWNER IN WRITING IN ADVANCE OF THE WORK. IF CHANGES ARE MADE BY THE CONTRACTOR WITHOUT PRIOR WRITTEN CONSENT FROM THE OWNER, CONTRACTOR SHALL BEAR FULL RESPONSIBILITY FOR MAKING THE NECESSARY CHANGES TO BRING THE CONSTRUCTION INTO CONFORMANCE WITH APPROVED PLANS AND SPECIFICATIONS AT NO COST TO THE OWNER.
12. THE AREAS DISTURBED BY THE CONTRACTOR SHALL BE RESTORED TO THEIR ORIGINAL CONDITION UNLESS OTHERWISE NOTED ON THE PLANS.
13. ALL COUNTY WATER UTILIZED DURING CONSTRUCTION SHALL BE METERED THROUGH A CONSTRUCTION WATER METER (OBTAINED FROM THE CITY) EQUIPPED WITH AN APPROVED BACK FLOW DEVICE.
14. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO FIELD VERIFY ALL PROPOSED CONSTRUCTION FOR FEASIBILITY AND FUNCTION. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER OF ANY DISCREPANCIES OR WARRANTED CONCERNS PERTAINING TO DESIGN AND CONSTRUCTION.

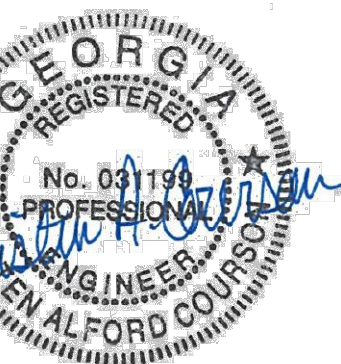
**SEWER SYSTEM NOTES:**

1. PROVIDE MINIMUM OF 36" OF COVER ON ALL LATERALS.
2. PVC FOR GRAVITY SEWER SHALL BE SDR 35 AND SHALL CONFORM TO ASTM D-3034.
3. SEWER & WATER SERVICES SHALL BE CONSTRUCTED TO AVOID CONFLICT WITH STORM DRAIN PIPE.
4. PROVIDE 10' HORIZONTAL SEPARATION BETWEEN SANITARY SEWER AND WATER LATERALS.
5. PROVIDE 10' HORIZONTAL SEPARATION BETWEEN SANITARY SEWER AND WATER MAINS. WHERE THESE MAINS CROSS THERE SHALL BE 18" VERTICAL SEPARATION BETWEEN THE BOTTOM OF THE WATER MAIN AND THE TOP OF THE SEWER MAIN. WHERE MINIMUM SEPARATIONS CANNOT BE ACHIEVED, PROVIDE CONCRETE ENCASEMENT PER DETAILS.
6. DETECTOR TAPE AND TRACER WIRE SHALL BE INSTALLED ON ALL SEWER SERVICE LATERALS. THE WIRE AND TAPE SHALL BE INSTALLED ON ALL SEWER LATERALS FROM THE MAIN TO THE END OF THE SERVICE LOCATED AT OR NEAR THE PROPERTY LINE.
7. MANDATORY CITY INSPECTIONS INCLUDE THE FOLLOWING: 1.) TIE-IN TO OWNERS EXISTING PUBLIC MAINS OR MANHOLES 2.) BACKFILLING OF SERVICE LINE FITTINGS 3.) INSTALLATION OF DROP SEWER CONNECTIONS AND 4.) ALL REQUIRED LINE AND MANHOLE TESTING. THE CONTRACTOR SHALL PROVIDE AT LEAST 24 HOURS NOTICE FOR ALL INSPECTION REQUESTS. REFER TO THE CITY "UTILITY DEPARTMENT WATER AND SEWER STANDARDS" FOR FURTHER INFORMATION AND REQUIREMENTS CONCERNING FIELD INSPECTIONS.
8. AFTER INSTALLATION, ALL GRAVITY SEWER MAINS AND MANHOLES SHALL BE TESTED PER THE CITY OF VIDALIA "UTILITY DEPARTMENT WATER AND SEWER STANDARDS". THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL MATERIALS AND PERSONNEL NECESSARY TO CONDUCT ALL TESTING. THE OWNER'S REPRESENTATIVE AND CITY INSPECTOR SHALL BE PRESENT FOR ALL TESTING.



NO.	DESCRIPTION	DATE

**BID SET**



**DRAWN BY:** JDM/DEG  
**CHECKED BY:** KAC  
**DATE:** MAR 2024  
**SCALE:** N.T.S.

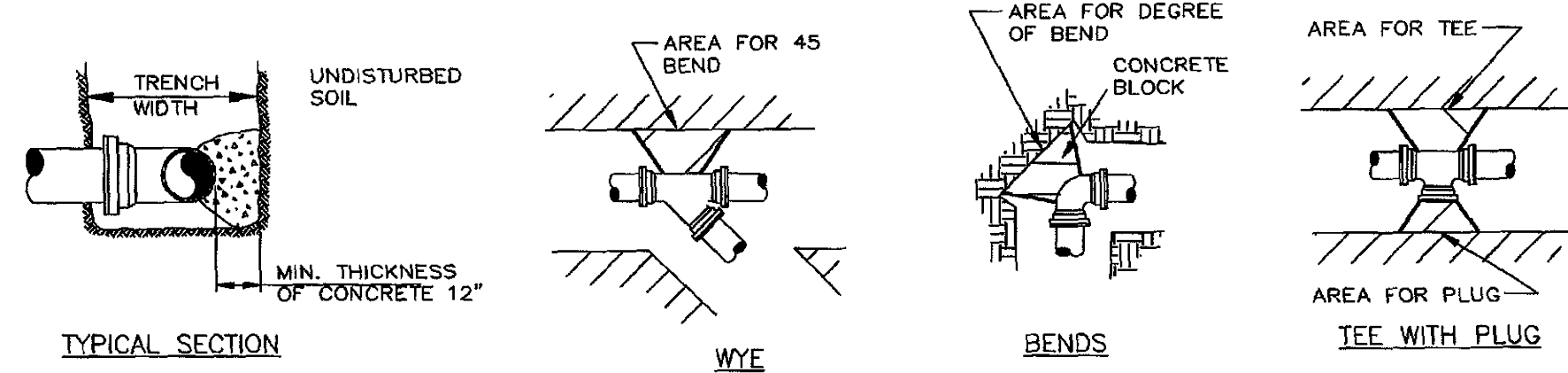
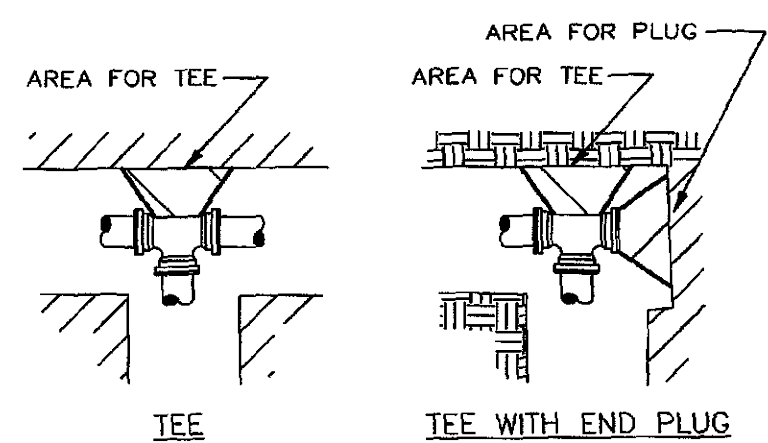
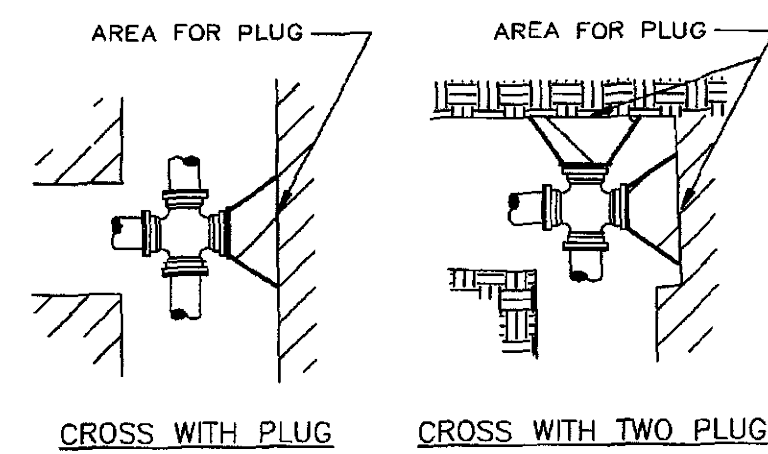
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**CONSTRUCTION  
DETAILS**

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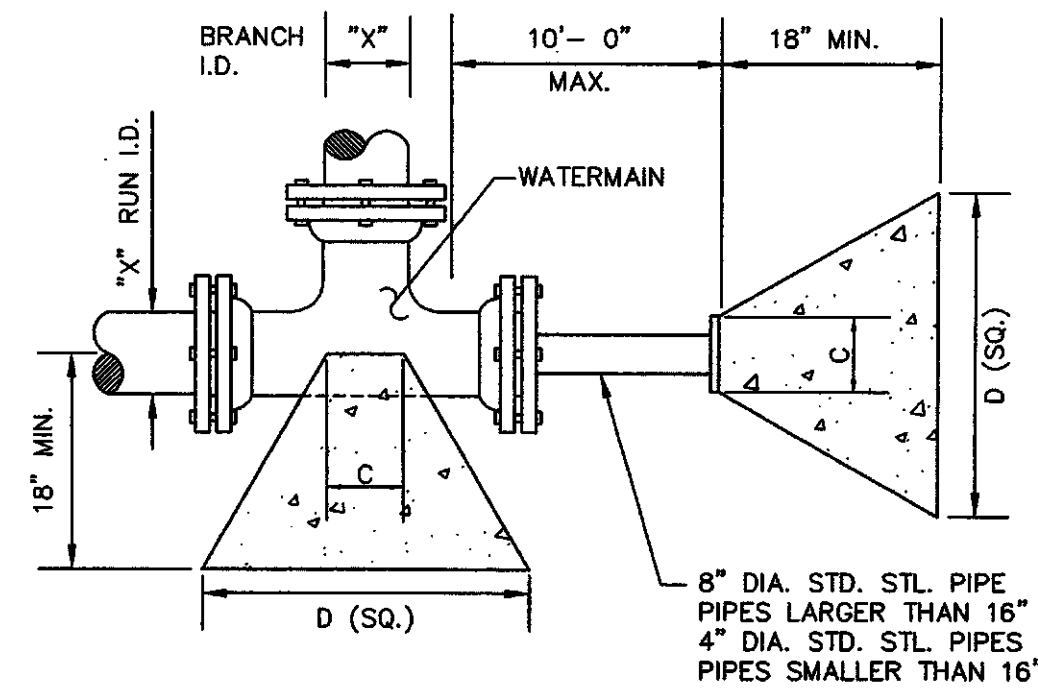
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- THRUST BLOCK BEARING AREAS SHALL BE POURED AGAINST UNDISTURBED MATERIALS WHERE TRENCH WALL HAS BEEN DISTURBED. EXCAVATE ALL LOOSE MATERIAL AND EXTEND TO UNDISTURBED MATERIAL.
- EXTEND THRUST BLOCK FULL LENGTH OF FITTINGS. PUT BOARD IN FRONT OF PLUG BEFORE POURING CONCRETE. JOINTS SHALL NOT BE COVERED BY THRUST BLOCK.
- ROUGH BLOCKING FORMS SHALL BE USED ALONG SIDES OF THRUST BLOCK.
- THRUST BLOCKS SHALL BE USED IN COMBINATION, AS REQUIRED, TO SUIT THE SPECIFIC FITTINGS ARRANGEMENT.
- ALTERNATE DESIGN RESTRAINING SYSTEM SHALL BE PROVIDED WHERE STANDARD THRUST BLOCKING IS NOT SUITABLE, AND/OR SOIL BEARING CAPACITY IS LESS THAN 2,000 P.S.F. OR PIPE IS 16 INCHES OR GREATER.
- ALL WOOD BLOCKING SHALL BE PRESSURE TREATED WITH PRESERVATIVES.
- THRUST BLOCK AND RESTRAINING SEWER AND WATER MAIN SCHEDULES SHALL BE COMPLETED BY THE ENGINEER, BASED ON ALL DESIGN CONSIDERATIONS INCLUDING, BUT NOT LIMITED TO THE FOLLOWING: PIPE TYPE, SOIL BEARING CAPACITY, SOIL TYPE, DEPTH OF COVER, TEST PRESSURE, LAYING CONDITIONS AND SAFETY FACTOR.
- STEEL REINFORCEMENT FOR "DEAD-MAN" SHALL BE DETERMINED BY ENGINEER.
- CONCRETE THRUST BLOCKING SHALL HAVE A MIN. COMPRESSION STRENGTH OF 2500 PSI.
- CONCRETE SHALL BE PLACED AGAINST UNDISTURBED MATERIAL AND SHALL NOT COVER JOINTS, BOLTS OR NUTS OR INTERFERE WITH REMOVAL OF ANY JOINT. WOODEN SIDE FORMS SHALL BE PROVIDED FOR THRUST BLOCKS WHERE TRENCH CONDITIONS REQUIRE.
- THRUST BLOCKS SHALL BE PROPERLY SET AND ADEQUATELY CURED PRIOR TO PRESSURIZING THE PIPE.
- FITTINGS SHALL BE PROTECTED BY POLYETHYLENE FILM, MIN. 8 MIL. THICK, PRIOR TO PLACING CONCRETE THRUST BLOCK.



CONCRETE THRUST BLOCKING  
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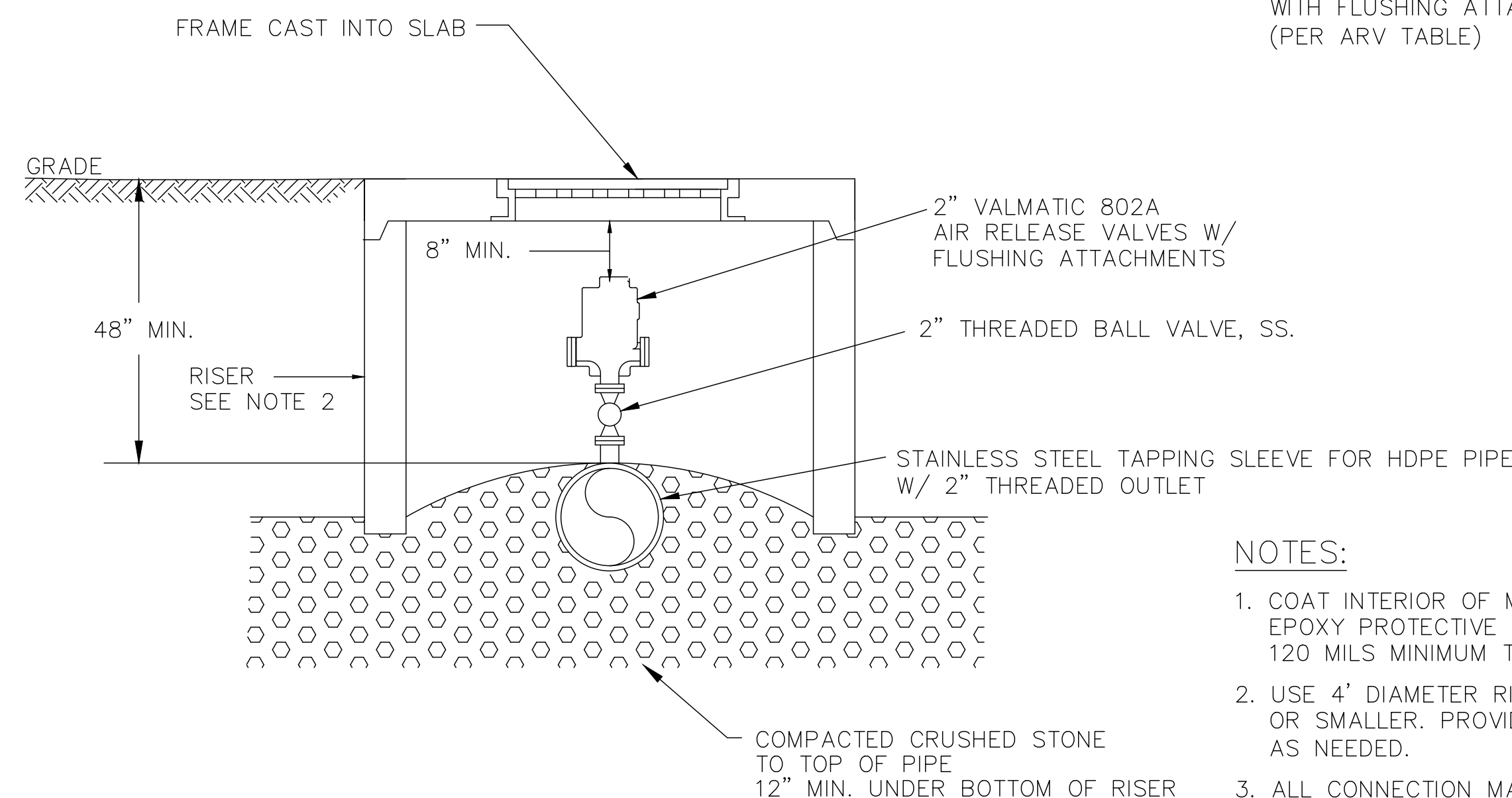
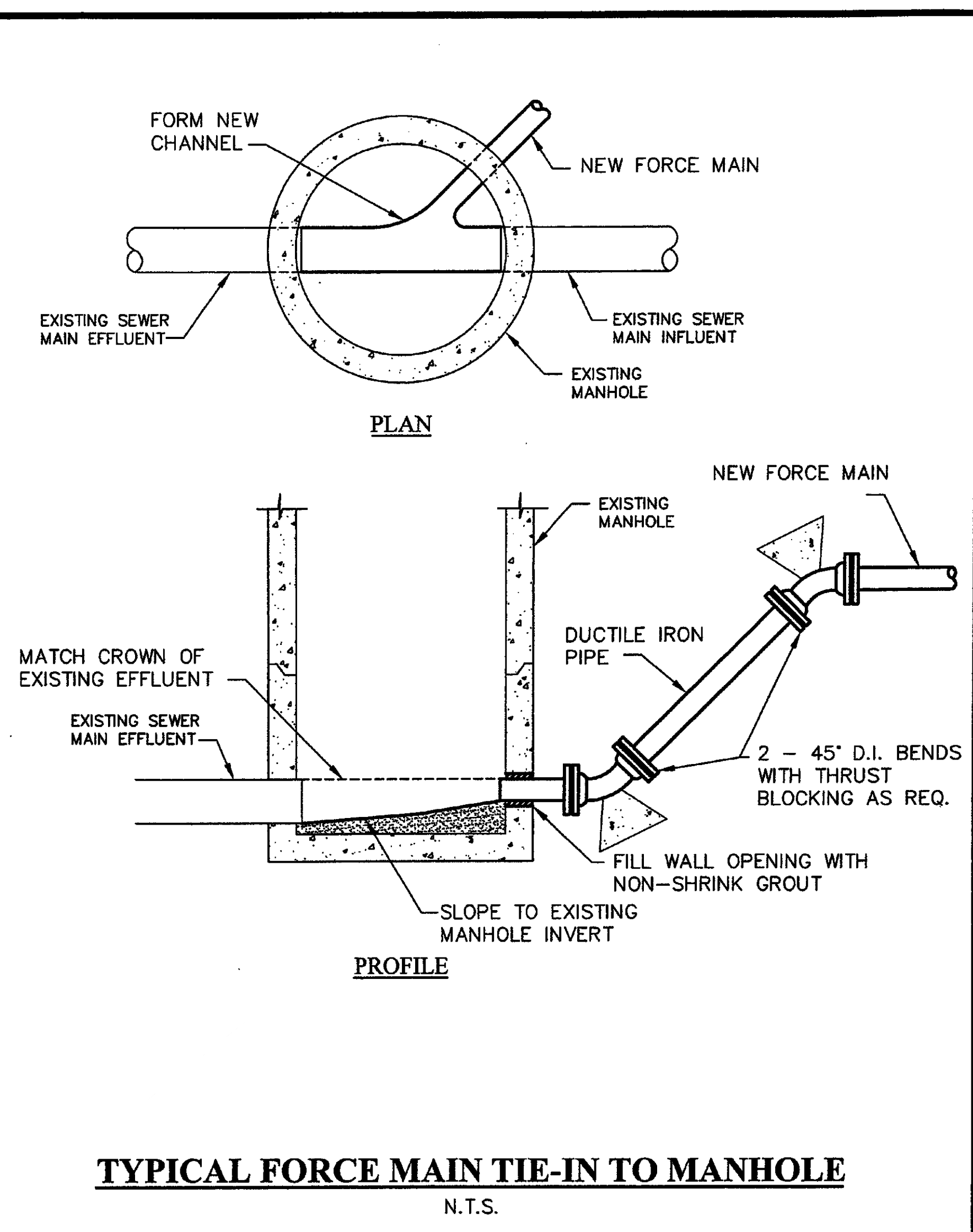
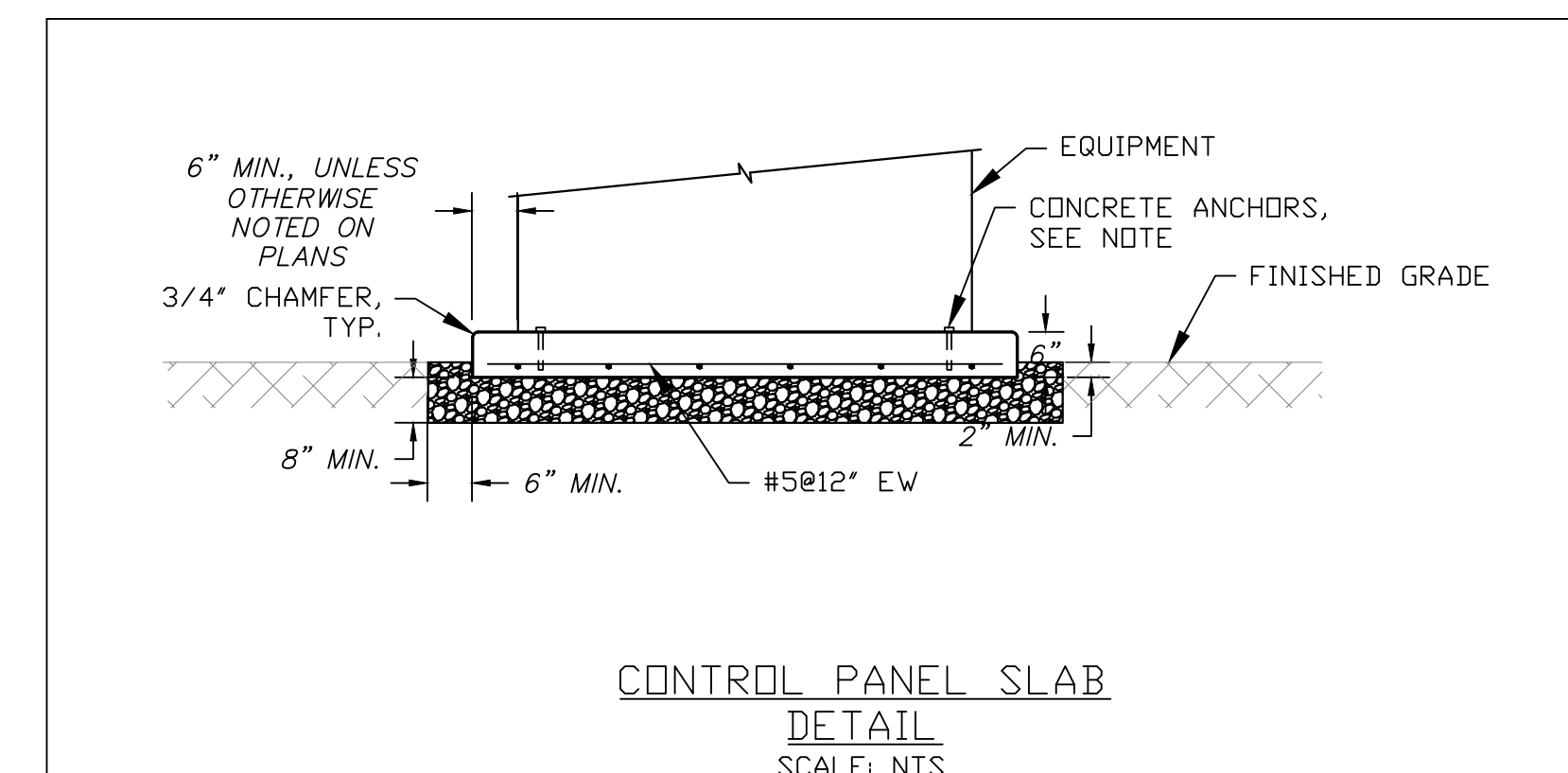
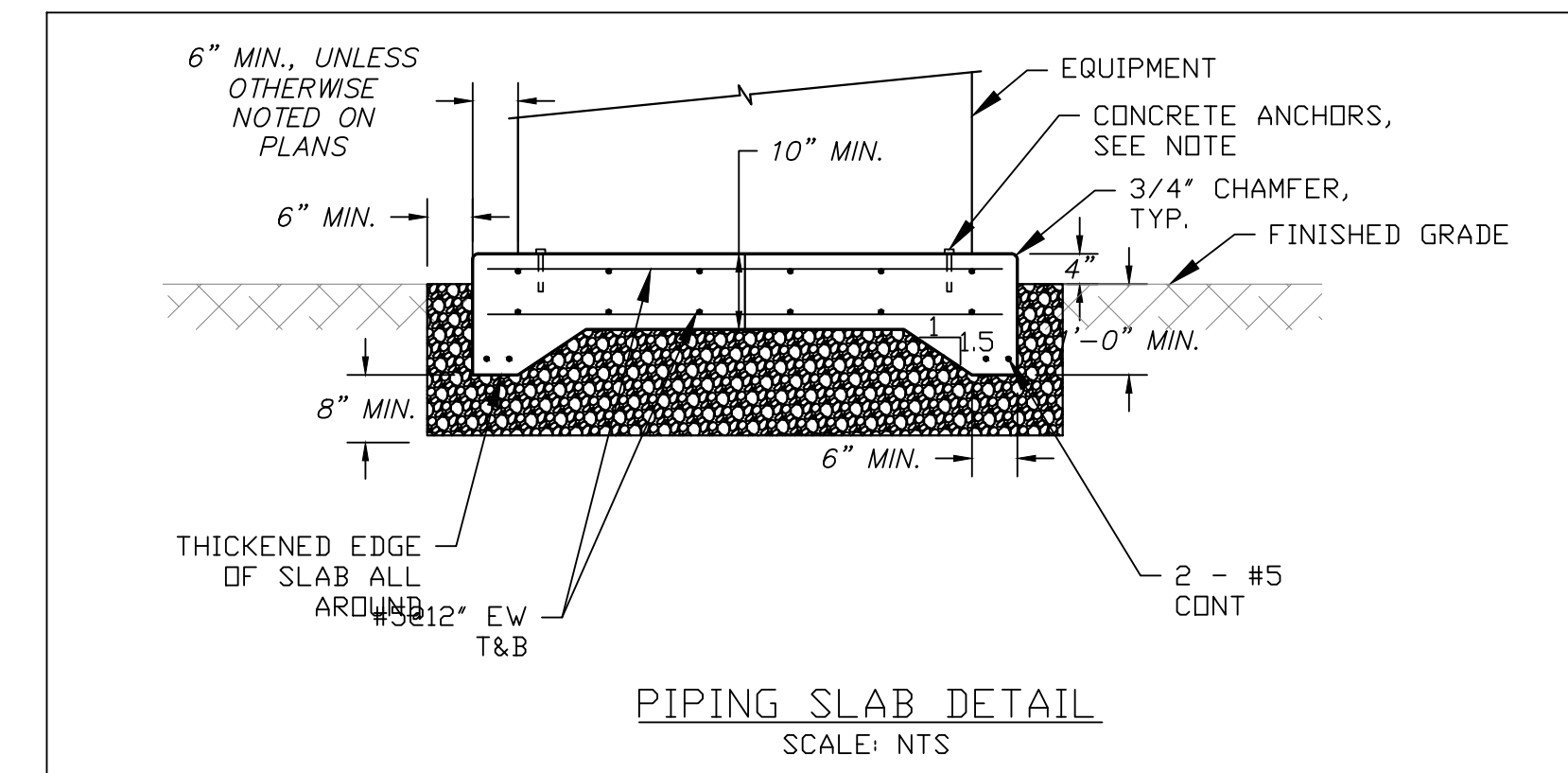


ANGLE	BENDS			TEES AND DEAD ENDS		
	X	C	D	X	C	D
90°	4"	6"	1'-2"	4"	8"	1'-6"
	6"	8"	1'-10"	6"	10"	1'-9"
	8"	9"	2'-4"	8"	12"	2'-0"
	10"	11"	3'-0"	10"	14"	2'-6"
45°	4"	6"	1'-0"	4"	8"	1'-6"
	6"	8"	1'-4"	6"	10"	1'-9"
	8"	9"	1'-10"	8"	12"	2'-0"
	10"	11"	2'-2"	10"	14"	2'-6"
22-1/2°	4"	6"	2'-8"	4"	8"	1'-6"
	6"	8"	1'-0"	6"	10"	1'-9"
	8"	9"	1'-4"	8"	12"	2'-0"
	10"	11"	1'-8"	10"	14"	2'-6"
11-1/4°	4"	6"	1'-0"	4"	8"	1'-6"
	6"	8"	1'-0"	6"	10"	1'-9"
	8"	9"	1'-0"	8"	12"	2'-0"
	10"	11"	1'-2"	10"	14"	2'-6"

STRUCTURAL NOTES:

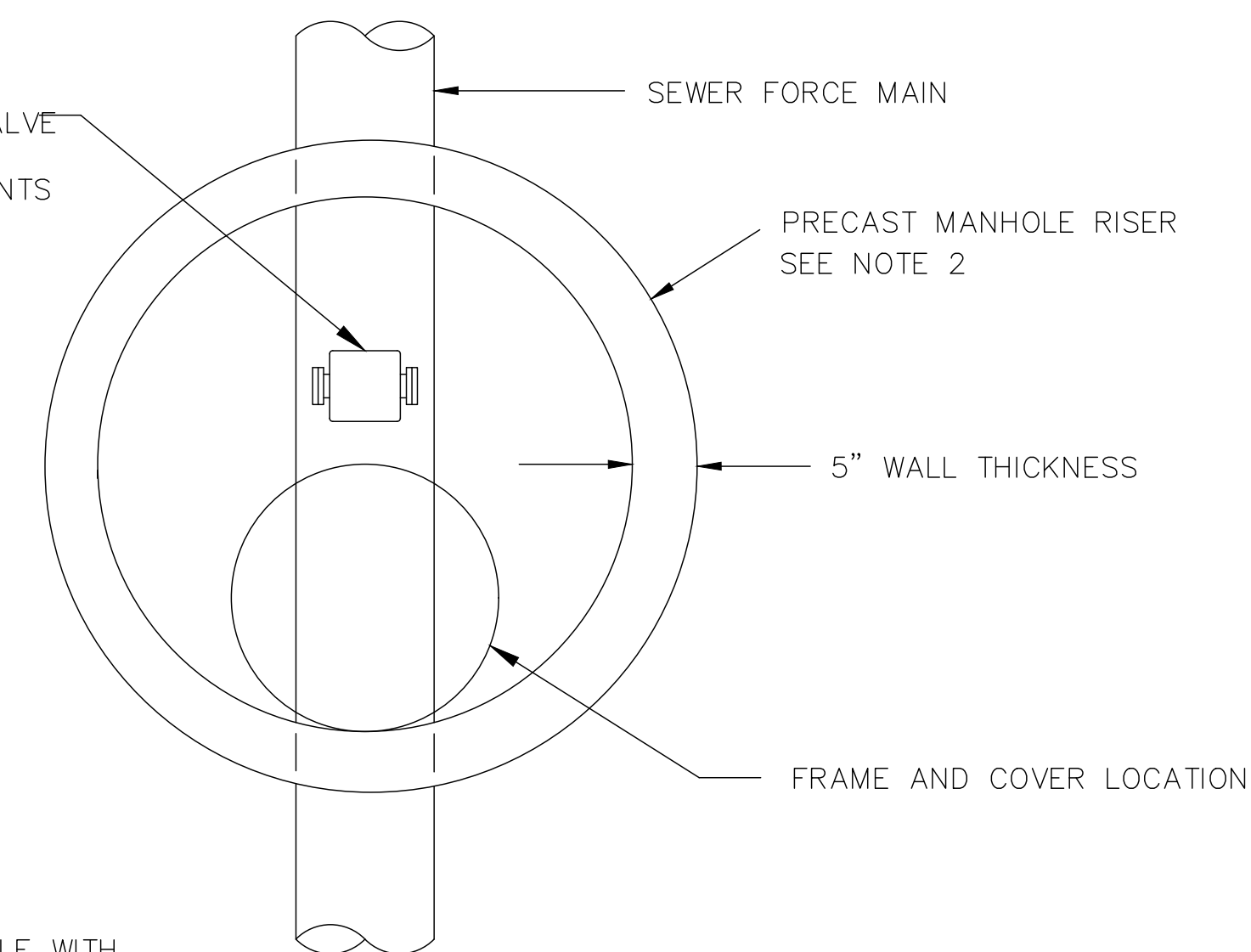
- PAD SIZE SHALL BE MINIMUM INDICATED OR AS SHOWN ON THE PLANS OR AS INDICATED BY THE MANUFACTURER AND APPROVED BY THE ENGINEER.
- THE SIZE, NUMBER, TYPE, LOCATION, AND THREAD PROJECTION OF THE ANCHOR BOLTS SHALL BE DETERMINED BY THE EQUIPMENT MANUFACTURER AND AS APPROVED BY THE ENGINEER. ANCHOR BOLTS SHALL BE HELD IN POSITION WITH A TEMPLATE OR OTHER ACCESSIBLE MEANS, MATCHING THE BASE PLATE, WHILE PAD IS BEING PLACED.
- ANCHOR BOLT SLEEVES SHALL BE USED TO PROVIDE MINIMUM ANCHOR BOLT MOVEMENT OF 1/2" IN ALL HORIZONTAL DIRECTIONS. THE MINIMUM SLEEVE LENGTH SHALL BE 8 TIMES THE BOLT DIAMETER.
- ANCHOR BOLT SLEEVES SHALL HAVE A MINIMUM INTERNAL DIAMETER 1" GREATER THAN BOLT DIAMETER AND A MAXIMUM INTERNAL DIAMETER 3" GREATER THAN ANCHOR BOLT DIAMETER. SLEEVES SHALL BE FILLED WITH NON-SHRINK GROUT AFTER BOLTS ARE ALIGNED.
- EQUIPMENT BASES SHALL BE INSTALLED LEVEL UNLESS INDICATED OTHERWISE.
- WEDGES, SHIMS, OR LEVELING NUTS SHALL BE USED TO SUPPORT THE BASE WHILE THE NON-SHRINK GROUT IS PLACED. WEDGES OR SHIMS THAT ARE LEFT IN PLACE SHALL NOT BE EXPOSED TO VIEW.
- HEIGHT OF PADS SHALL BE MINIMUM REQUIRED FOR ANCHOR BOLT CLEARANCE TO KEEP ANCHOR BOLT ABOVE SUPPORTING SLAB (SEE TABLE BELOW). WHERE EQUIPMENT OR PIPING ELEVATION REQUIRE A PAD HEIGHT LESS THAN THE MINIMUM SHOWN, USE TYPE "B" EQUIPMENT PAD WITH BLOCKOUT.
- AT CONTRACTOR'S OPINION, CONCRETE ANCHORS MAY BE USED IN LIEU OF CAST-IN-PLACE ANCHOR BOLTS FOR EQUIPMENT ANCHOR BOLTS LESS THAN 3/4" DIAMETER WHEN APPROVED BY THE EQUIPMENT MANUFACTURER AND APPROVED BY THE ENGINEER. ANCHORS SHALL BE INSTALLED WITH THE 4" MINIMUM EDGE DISTANCE IN EACH DIRECTION.

AB DIA (IN.)	1/2	5/8	3/4	7/8	1	1 1/4	1 3/8	1 1/2	1 3/4	2
MIN PAD HT (IN.)	7	8 1/2	10	11	12 1/2	15	16 1/2	18	21	24



NOTES:

- COAT INTERIOR OF MANHOLE WITH EPOXY PROTECTIVE LINER AT 120 MILS MINIMUM THICKNESS.
- USE 4" DIAMETER RISER FOR MAINS 12" OR SMALLER. PROVIDE RISER HEIGHT AS NEEDED.
- ALL CONNECTION MATERIALS FOR ARV'S ON HDPE FORCE MAINS SHALL BE 316 SS.
- HIGH GROUND WATER CONDITIONS MAY NEED SOLID BASE.



AIR RELEASE VALVE DETAIL  
NOT-TO-SCALE



Know what's below.  
Call before you dig.

REVISIONS	NO.	DESCRIPTION	DATE
ADDENDUM 1	1		12/28/23

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CONTENT:  
CONSTRUCTION  
DETAILS

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**EROSION CONTROL LEGEND**

- Bf** BUFFER ZONE  
UNDISTURBED EXISTING VEGETATIVE AREAS TO REMAIN UNDISTURBED UNTIL ALL PROJECT AREAS ARE STABILIZED.
- Co** CONSTRUCTION EXIT (TEMPORARY)  
STONE PAD AT THE SITE EXIT TO REMOVE MUD FROM TIRES. STONE PAD TO BE INSTALLED PRIOR TO ANY CONSTRUCTION TRAFFIC. STONE SIZE 1-1/2" TO 3-1/2" DIAMETER & THICKNESS = 6".
- Ds1** DISTURBED AREA STABILIZATION - MULCHING  
TEMPORARY COVER OF PLANT RESIDUES OR OTHER SUITABLE MATERIALS, PRODUCED ON SITE IF POSSIBLE, APPLIED TO THE SOIL SURFACE.
- Ds2** DISTURBED AREA STABILIZATION (TEMPORARY)  
ESTABLISH A TEMPORARY VEGETATION COVER WITH FAST GROWING SEEDING OR HEAVY MULCH.
- Ds3** DISTURBED AREA STABILIZATION (PERMANENT)  
ESTABLISH A PERMANENT VEGETATIVE COVER ON ALL BARE AREAS. (LANDSCAPING & PLANTING OF GRASS SHOULD BE DONE AS QUICKLY AS POSSIBLE.)
- Ds4** DISTURBED AREA STABILIZATION (WITH SODDING)  
A PERMANENT VEGETATIVE COVER USING SODS ON HIGHLY ERODIBLE OR CRITICALLY ERODED LANDS
- Du** DUST CONTROL ON DISTURBED AREAS  
CONTROLLING SURFACE AND AIR MOVEMENT OF DUST ON CONSTRUCTION SITES, ROADS, AND DEMOLITION SITES
- Cd** CHECK DAM  
A SMALL TEMPORARY BARRIER CONSTRUCTED ACROSS A SWALE, DRAINAGE DITCH, OR AREA OF CONCENTRATED FLOW. STONE OR STRAW BALE CHECK DAMS MAY BE USED DEPENDING ON DRAINAGE AREA.

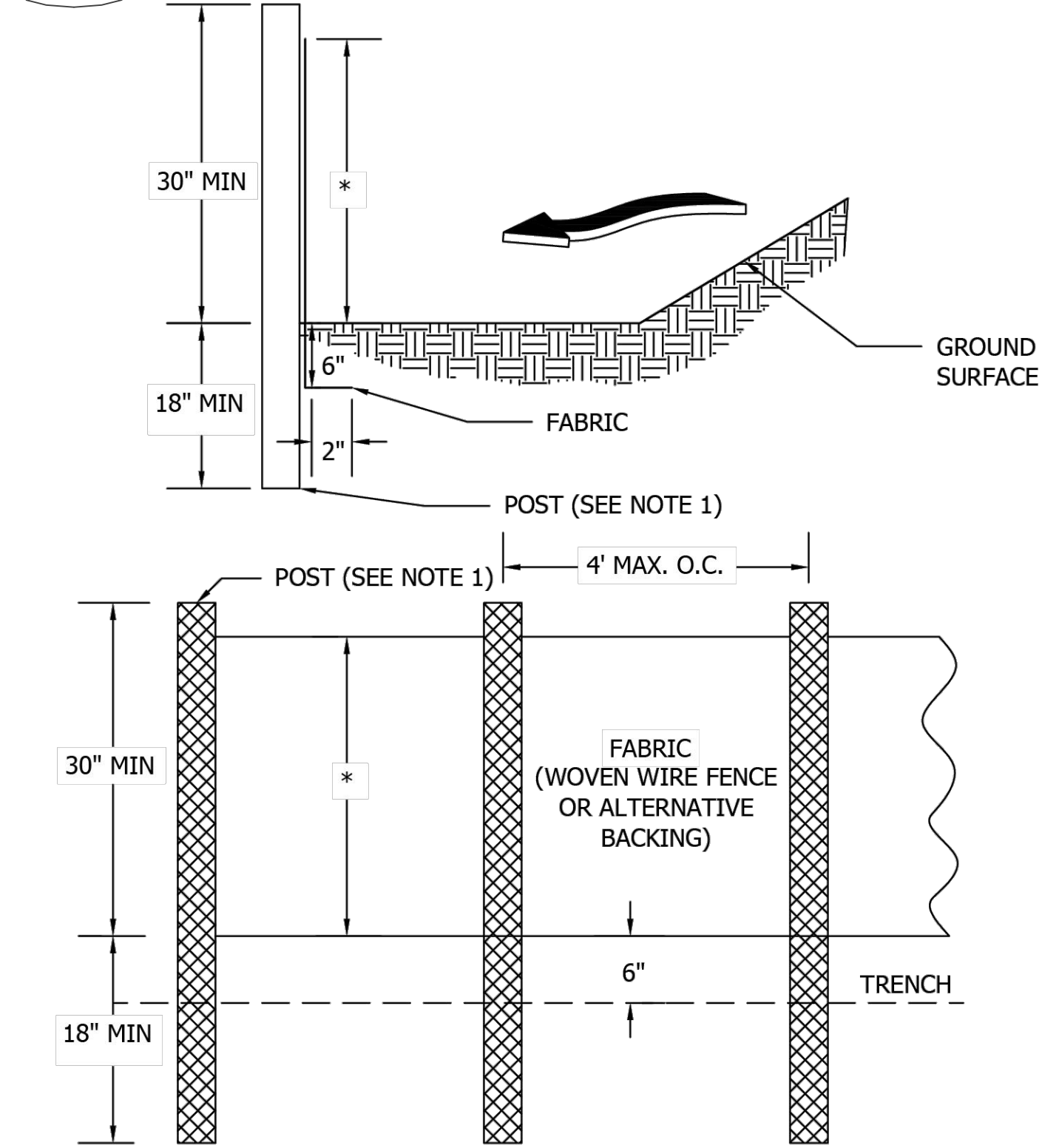
**TEMPORARY VEGETATION SCHEDULE**

Terrain	Planting Season	Grass Species	Application Rate	Fertilizer (6-12-12)	Lime (per ac.)	Maintenance 10/10/10 (per ac.)
All Slopes	8/1-3/1	Ryegrass	40 lbs./ac.	1500 lbs./ac.	1 ton	500 lbs
Slopes > 3:1	2/1-7/31	Weeping Lovegrass	4 lbs./ac.	1500 lbs./ac.	1 ton	500 lbs
All Slopes	4/1-8/1	Browntop Millet	40 lbs./ac.	1500 lbs./ac.	1 ton	500 lbs
All Slopes	4/1-9/1	Pearl Millet	50 lbs./ac.	1500 lbs./ac.	1 ton	500 lbs

**PERMANENT VEGETATION SCHEDULE**

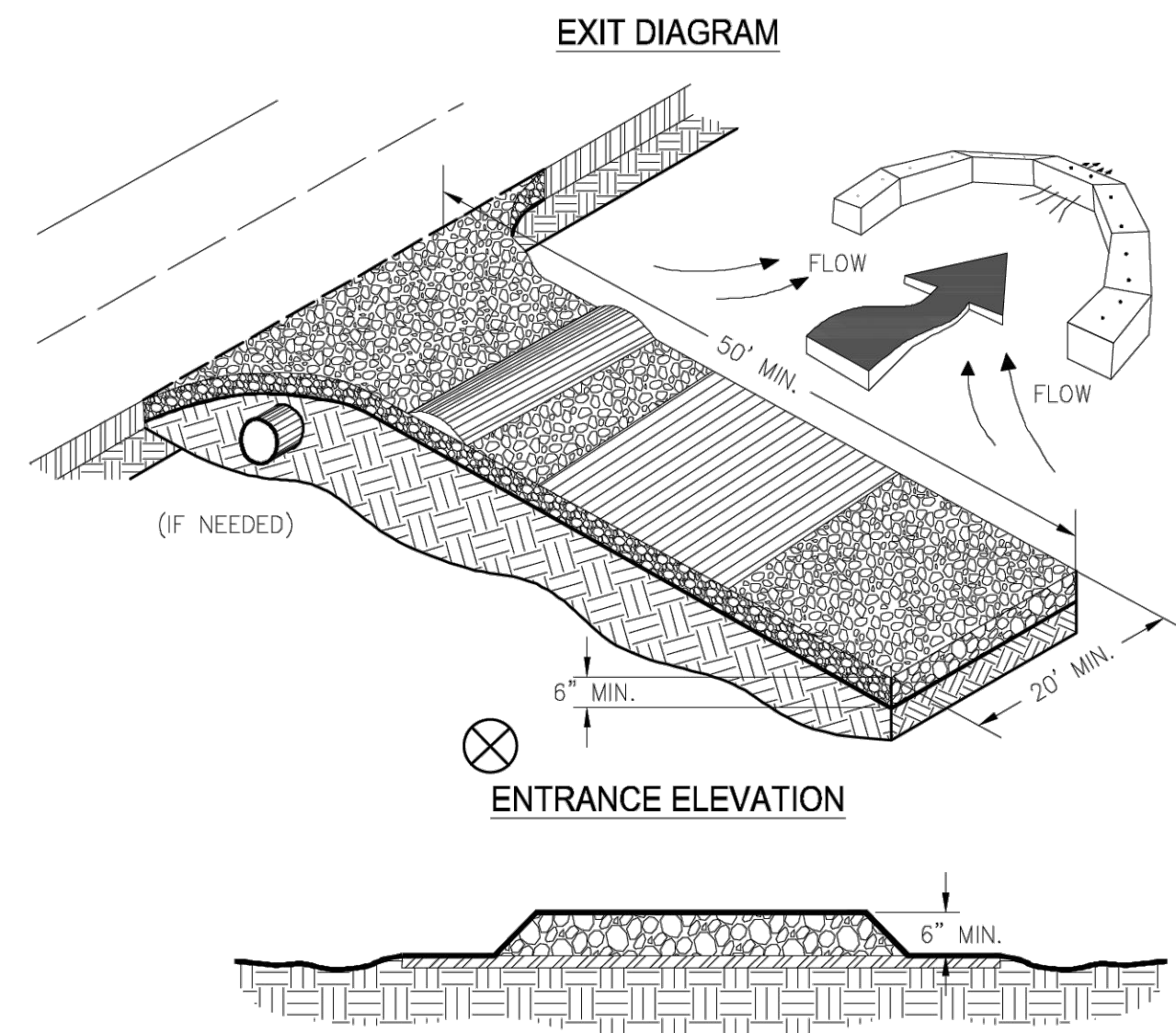
Terrain	Planting Season	Grass Species	Application Rate	Fertilizer (6-12-12)	Lime (per ac.)	Maintenance 10/10/10 (per ac.)
Slopes < 3:1	2/15-8/31	Common Bermuda (Hulled)	6 lbs./ac.	1500 lbs./ac.	1 ton	500 lbs.
Slopes < 3:1	2/15-8/31	Common Bermuda (Unhulled)	6 lbs./ac.	1500 lbs./ac.	1 ton	500 lbs.
Slopes < 3:1	9/1-2/14	Common Bermuda (Unhulled)	10 lbs./ac.	1500 lbs./ac.	1 ton	500 lbs.
Slopes > 3:1	2/1-7/31	Weeping Lovegrass	2 lbs./ac.	1500 lbs./ac.	1 ton	500 lbs.
Slopes > 3:1	8/1-1/31	Common Bermuda (Unhulled)	6 lbs./ac.	1500 lbs./ac.	1 ton	500 lbs.

**Sd1-S SILT FENCE - TYPE SENSITIVE**



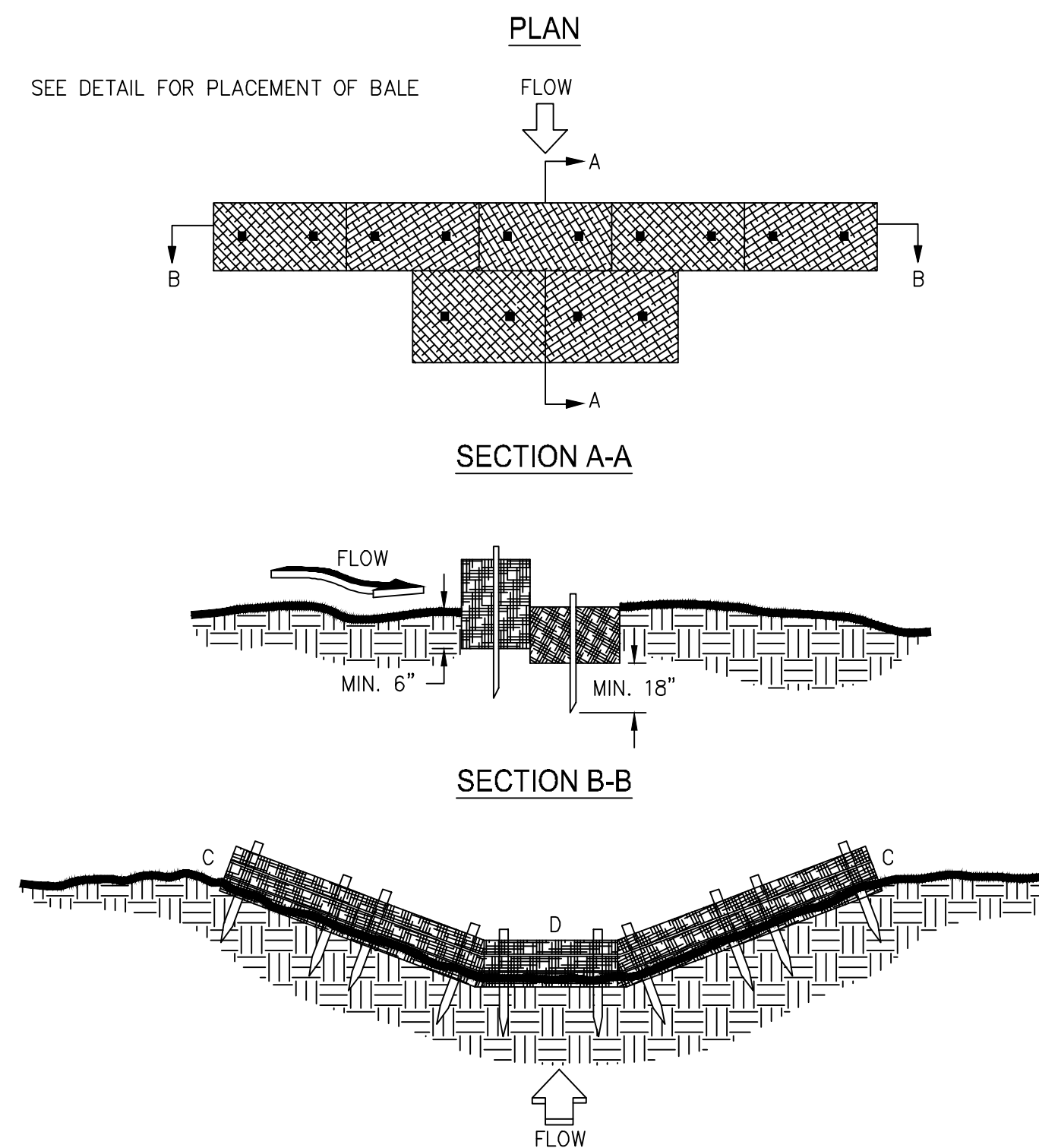
- NOTES:**
- USE STEEL OR WOOD POSTS OR AS SPECIFIED BY THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN.
  - HEIGHT (\*) IS TO BE SHOWN ON THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN.

**Co CRUSHED STONE CONSTRUCTION EXIT**



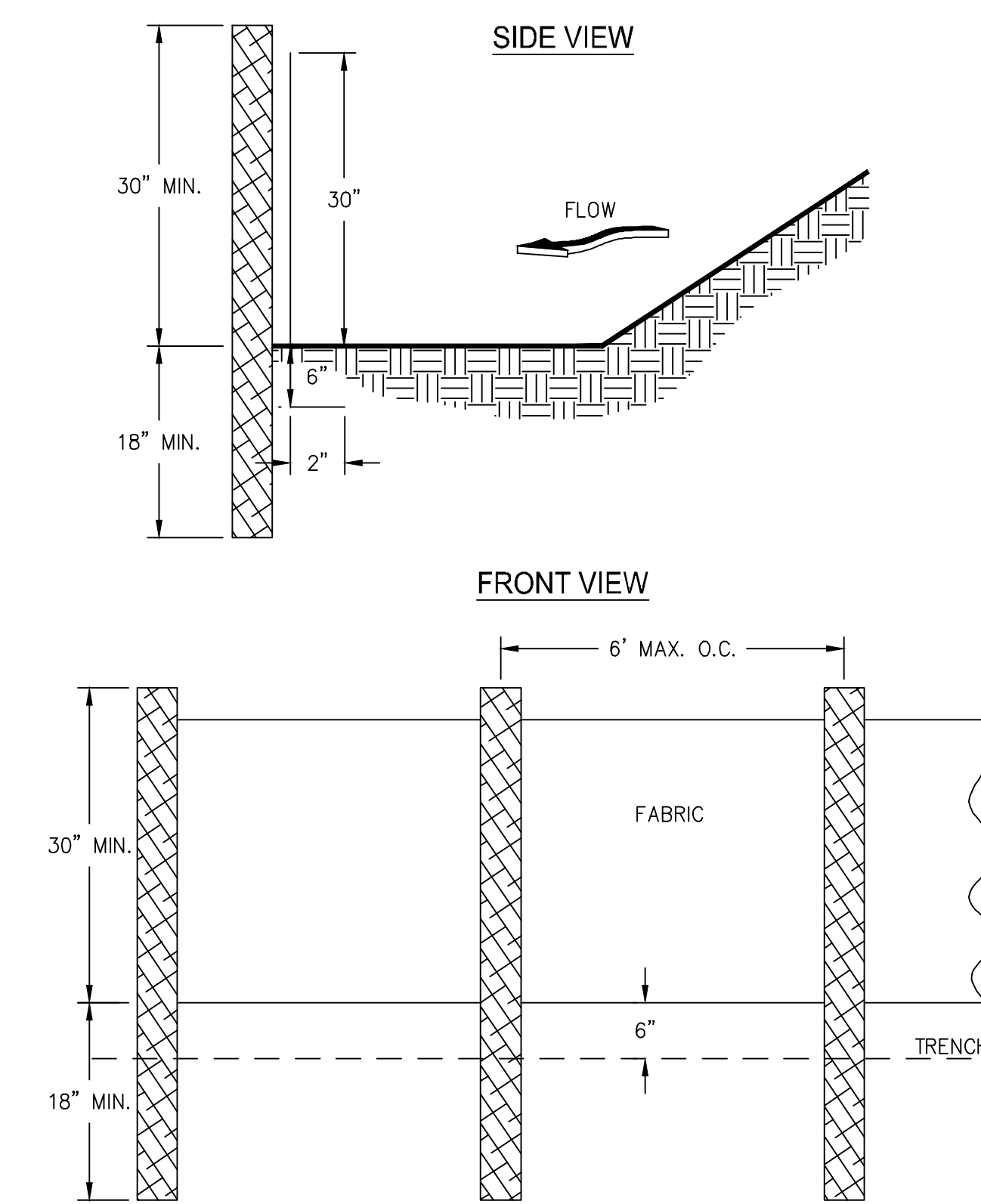
- NOTES:**
- AVOID LOCATING ON STEEP SLOPES OR AT CURVES ON PUBLIC ROADS.
  - REMOVE ALL VEGETATION AND OTHER UNSUITABLE MATERIAL FROM THE FOUNDATION AREA, GRADE, AND GROUND FOR POSITIVE DRAINAGE.
  - AGGREGATE SIZE SHALL BE IN ACCORDANCE WITH NATIONAL STONE ASSOCIATION R-2 (1.5"-3.5" STONE).
  - GRAVEL PAD SHALL HAVE A MINIMUM THICKNESS OF 6".
  - PAD WIDTH SHALL BE EQUAL FULL WIDTH AT ALL POINTS OF VEHICULAR EGRESS, BUT NO LESS THAN 20'.
  - A DIVERSION RIDGE SHOULD BE CONSTRUCTED WHEN GRADE TOWARD PAVED AREA IS GREATER THAN 2%.
  - INSTALL PIPE UNDER THE ENTRANCE IF NEEDED TO MAINTAIN DRAINAGE DITCHES.
  - WHEN WASHING IS REQUIRED, IT SHOULD BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE THAT DRAINS INTO AN APPROVED SEDIMENT TRAP OR SEDIMENT BASIN (DIVERT ALL SURFACE RUNOFF AND DRAINAGE FROM THE ENTRANCE TO A SEDIMENT CONTROL DEVICE).
  - WASHRACKS AND/OR TIRE WASHERS MAY BE REQUIRED DEPENDING ON SCALE AND CIRCUMSTANCE. IF NECESSARY, WASHRACK DESIGN MAY CONSIST OF ANY MATERIAL SUITABLE FOR TRUCK TRAFFIC THAT REMOVE MUD AND DIRT.
  - MAINTAIN AREA IN A WAY THAT PREVENTS TRACKING AND/OR FLOW OF MUD ONTO PUBLIC RIGHTS-OF-WAYS. THIS MAY REQUIRE TOP DRESSING, REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT.

**Cd TYPICAL STRAW BALE CHECK DAM**



- NOTES:**
- BALES SHOULD BE BOUND WITH WIRE OR NYLON STRING AND SHOULD BE PLACED IN ROWS WITH BALE ENDS TIGHTLY ABUTTING THE ADJACENT BALES.
  - REMOVE #4 REBAR AFTER STRAW BALES ARE NO LONGER IN PLACE.
  - POINT C OF SECTION B-B SHOULD ALWAYS BE HIGHER THAN POINT D.

**Sd1-NS SILT FENCE - TYPE NON-SENSITIVE**

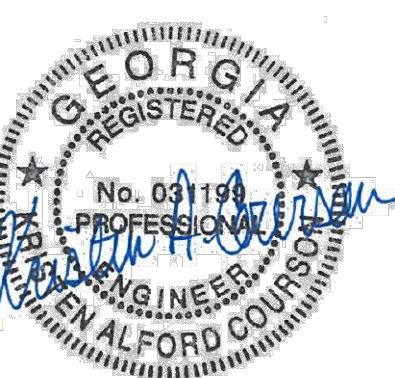


- NOTES:**
- USE STEEL OR WOOD POSTS OR AS SPECIFIED BY THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN.
  - HEIGHT (\*) IS TO BE SHOWN ON THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN.



NO.	REVISIONS	DESCRIPTION	DATE

**BID SET**



**DRAWN BY:** JDM/DEG  
**CHECKED BY:** KAC  
**DATE:** MAR 2024  
**SCALE:** AS NOTED

**CONTENT:**  
**EROSION & SEDIMENT CONTROL DETAILS**

**SHEET NO:**

**ESC-1**

KRISTIN COURSON, P.E.  
GSWCC LEVEL II  
DESIGN PROFESSIONAL  
CERTIFICATE #000002100