

NEW 2MG GROUND STORAGE TANK AT FIRE TOWER ROAD (BROGDON)

FOR THE CITY OF CALHOUN GORDON COUNTY, GEORGIA PROJECT NO. 358

MAY 2026



CITY OFFICIALS AND DEPARTMENT STAFF

MAYOR

JAMES F. PALMER

COUNCIL

ED MOYER.....MAYOR PRO TEM
AL EDWARDS.....COUNCIL MEMBER
JACKIE PALAZZOLO.....COUNCIL MEMBER
BRUCE POTTS.....COUNCIL MEMBER

CITY ADMINISTRATOR

PAUL WORLEY

CITY ATTORNEY

BRANDON BOWEN

UTILITIES ADMINISTRATOR

KYLE W. ELLIS, P.E.

WATER & SEWER DIRECTOR

ERIK HENSON

CITY HALL

226 SOUTH WALL STREET
CALHOUN, GA 30701
PHONE: (706) 629-0151

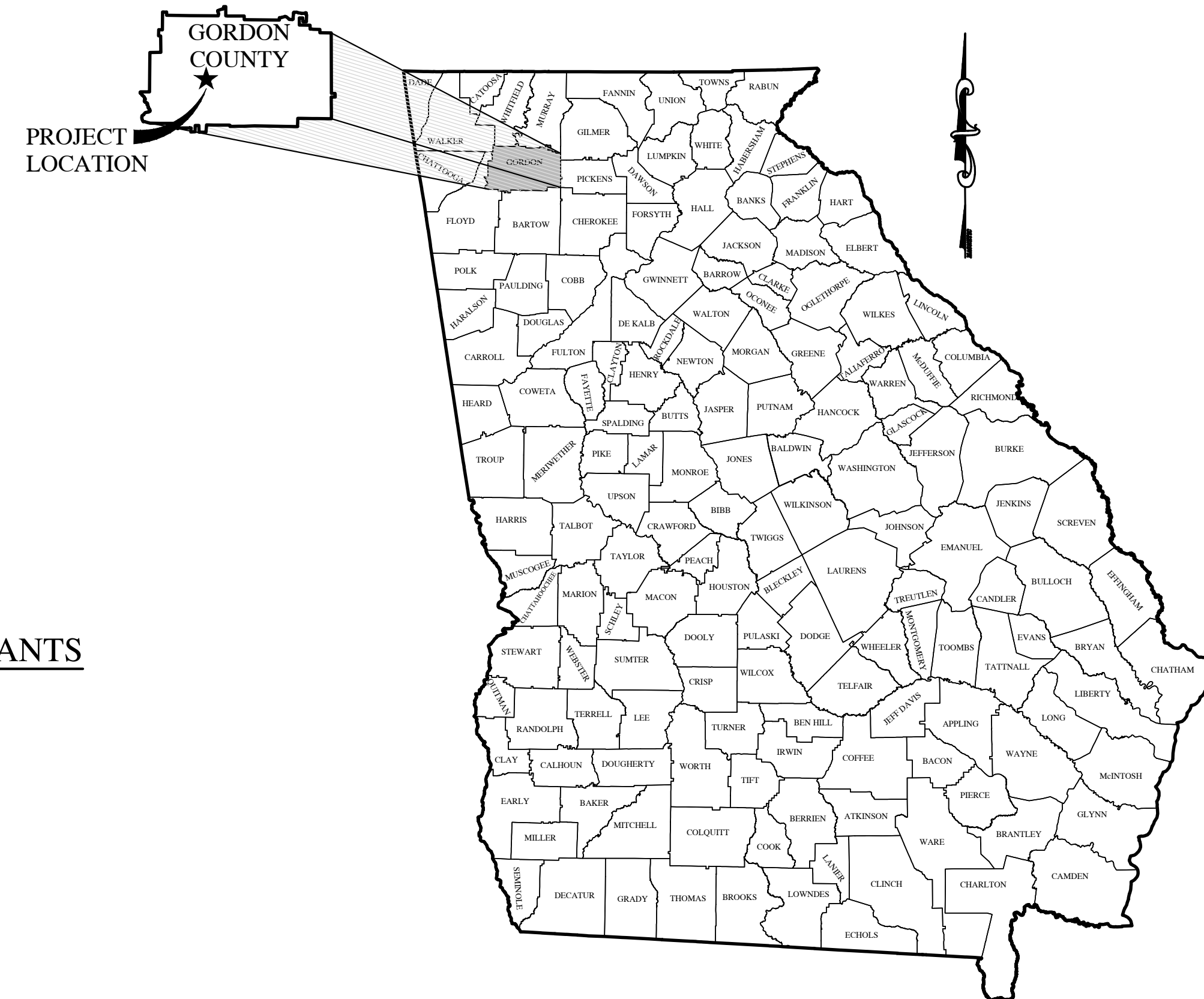
UTILITIES BUILDING

700 WEST LINE STREET
CALHOUN, GA, 30701
PHONE: (706) 602-5678

WATER TREATMENT PLANTS

500 MAULDIN ROAD
CALHOUN, GA 30701
PHONE: (706) 629-2585

306 BRITTANY DRIVE
CALHOUN, GA 30701
PHONE: (706) 602-5924



VICINITY MAP

INDEX TO DRAWINGS

SHEET NUMBER	SHEET TITLE
--	TITLE
1	GENERAL CONTRUCTION NOTES
2	SOIL EROSION AND SEDIMENT CONTROL PLAN
3	SOIL EROSION AND SEDIMENT CONTROL DETAILS
4	GRADING AND STORM DRAINAGE PLAN
5	YARD PIPING PLAN
6-7	GROUND STORAGE AND SECTION PLAN
8	GROUND STORAGE TANK DETAILS
9-10	MISCELLANEOUS DETAILS

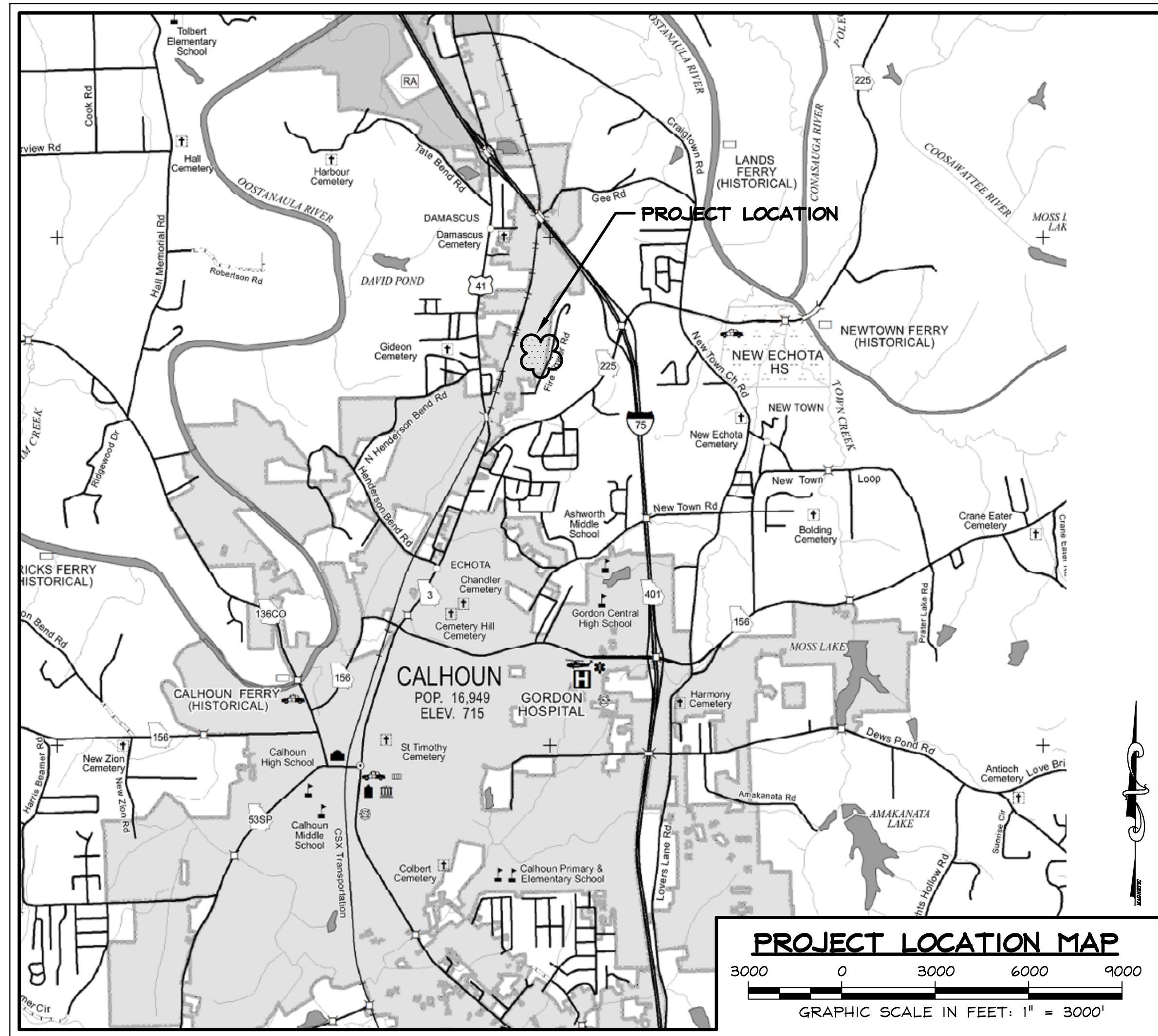
NOTE: NO ELECTRICAL OR SCADA WORK WILL BE INCLUDED IN THE TANK FABRICATOR'S CONTRACT.

24-HOUR EMERGENCY CONTACT
EROSION, SEDIMENTATION & POLLUTION CONTROL
KURT McCORD
CITY OF CALHOUN
UTILITIES ENGINEERING
PHONE: (706) 602-6082

PREPARED BY:
THE CITY OF CALHOUN
UTILITIES ENGINEERING DEPT.
700 WEST LINE STREET CALHOUN, GA 30701
PHONE: (706)602-6082
FAX: (706)602-6110
EMAIL: KMCCORD@CALNET-GA.NET

REVISION NO.	DESCRIPTION	DATE





UTILITY OWNERS:

- SEWER:**
 • CITY OF CALHOUN (706) 602-6101
- WATER:**
 • CITY OF CALHOUN (706) 548-0359
- TELEPHONE & CABLE:**
 • AT&T (706) 409-1542
 • COMCAST (706) 708-7112
- POWER:**
 • GEORGIA POWER (706) 506-6539
 • NORTH GEORGIA EMC (706) 629-3160
 • CITY OF CALHOUN (706) 602-6129
- GAS:**
 • ATLANTA GAS LIGHT (706) 259-5586

ABBREVIATION LIST

ACT. TILE	ACOUSTICAL TILE	F # C	FRAME # COVER	N.T.S.	NOT TO SCALE
ASPH.	ASPHALT	F.D.	FLOOR DRAIN	O.C.	ON CENTER
B.F.	BLIND FLANGE	F.E.	FIRE EXTINGUISHER	O.F.	OUTSIDE FACE
BLDG.	BUILDING	F.E.S.	FLARED END SECTION	PC	POINT OF CURVATURE
BLK.	BLOCK	F.F.	FINISHED FLOOR	P.E.	PLAIN END
BOT.	BOTTOM	FL.	FLANGE	P.H.	POST HYDRANT
BRG.	BEARING	FM	FORCE MAIN	P.I.	POINT OF INTERSECTION
B.F.V.	BUTTERFLY VALVE	FT.	FOOT/FEET	PL	PLACE(S)
B.V.	BALL VALVE	G.A.B.	GRADED AGGREGATE BASE	P.R.V.	PRESSURE REDUCING VALVE
B.W.V.	BACKWATER VALVE	G.V.	GATE VALVE	PS	PUMP STATION
CAP	CORRUGATED ALUMINUM PIPE	GYP. BD.	GYP. BOARD	PT	POINT OF TANGENCY
CHEM.	CHEMICAL	H.M.	HOLLOW METAL	PTS.	POINTS
CMP	CORRUGATED METAL PIPE	HORIZ.	HORIZONTAL	P.V.	PLUG VALVE
CONC.	CONCRETE	H.P.	HORSE POWER	P.V.C.	POLY VINYL CHLORIDE PIPE
CONT.	CONTINUOUS	HYD.	HYDRANT	R	RADIUS
CONST.	CONSTRUCTION	I.E.	INVERT ELEVATION	RCP	REINFORCED CONCRETE PIPE
CP	CONTROL POINT	I.F.	INSIDE FACE	REQ'D	REQUIRED
C.P.V.C.	CHLORINATED POLY VINYL CHLORIDE	INF.	INFLUENT	R.J.	RESTRAINED JOINT
C.V.	CHECK VALVE	INSUL.	INSULATION	SAN.	SANITARY
C.Y.	CUBIC YARDS	INV.	INVERT	SED.	SEDIMENT
Δ	DELTA	J.B.	JUNCTION BOX	S.S.	STAINLESS STEEL
D.I.A.	DIAMETER	JT.	JOINT	T # B	TOP # BOTTOM
D.I.P. OR D.I.	DUCTILE IRON PIPE	L	LENGTH OF CURVE	TAN	TANGENT
D.S.	DOWN SPOUT	L.A.S.	LAND APPLICATION SYSTEM	T/W	TOP OF WALL
D/W	DRIVEWAY	LB.	POUNDS	T.U.	TRUE UNION
DWL.	DOWEL	L.C.	LENGTH OF CHORD	TYP.	TYPICAL
EA.	EACH	L.F.	LINEAR FEET	U.F.	UNIFLANGE
E.F.	EACH FACE	MET.	METAL	V.B.	VALVE BOX
EFF.	EFFLUENT	M.H.	MANHOLE	VERT.	VERTICAL
E.J.	EXPANSION JOINT	MIN.	MINIMUM	W/	WITH
EL. OR ELEV.	ELEVATION	M.J.	MECHANICAL JOINT	W.A.S.	WASTE ACTIVATED SLUDGE
E.W.	EACH WAY	M.L.	MEGALUG	W.S.	WATER STOP
EXP.	EXPANSION	M.O.	MASONRY	W.S.L.	WATER SURFACE LEVEL
				Y.H.	YARD HYDRANT

LEGEND

	EXISTING	PROPOSED		EXISTING	PROPOSED
PROPERTY LINE	---	---	FIRE HYDRANT	⊙	⊙
EASEMENT LINE	---	---	YARD HYDRANT	⊙ TH	● TH
RIGHT OF WAY	---	---	VALVE	△	▲
EDGE OF PAVEMENT	---	---	METER	⊖	■
CREEK/DITCH	---	---	WELL	⊙	⊙
CONTOUR	---100---	---100---	CLEANOUT	⊙ ^o	⊙ ^o
SILT FENCE	-x-x-x-	-x-x-x-	MANHOLE	⊙	⊙
FENCE	-xx-	-xx-	SIGN	⊙	⊙
CENTERLINE	---	---	MAILBOX	⊙	⊙
WATER LINE	---	---	CONTROL POINT	⊙	⊙
SANITARY SEWER	---	---	TEMP. BENCHMARK	⊙	⊙
FORCE MAIN	---	---	SOIL BORE	⊙	⊙
GAS LINE	---	---	TELEPHONE PEDESTAL	OTPED	OTPED
UNDERGROUND CABLE	---	---	HEADWALL	⊙	⊙
OVERHEAD POWER	---	---	RIPRAP	⊙	⊙
OVERHEAD TELEPHONE	---	---	PINE TREE	⊙	⊙
STORM DRAIN	---	---	HARDWOOD	⊙	⊙
FIBER OPTIC CABLE	---	---	MISC. TREE	⊙	⊙
CHEMICAL FEED	---	---	MISC. SHRUB	⊙	⊙
YARD PIPING	---	---	IRON PIN FOUND	⊙	⊙
YARD PIPING (ABANDONED)	---	---	CONC. R/W MONUMENT	⊙	⊙
UTILITY POLE/GUY WIRE	---	---	SPOT ELEV.	⊙	⊙
BUILDING	⊙	⊙	DOWNSTREAM SAMPLING POINT FOR NPDES STORM WATER GENERAL PERMIT	▲	▲
STRUCTURE	⊙	⊙	UPSTREAM SAMPLING POINT FOR NPDES STORM WATER GENERAL PERMIT	▲	▲
CONCRETE DRIVEWAY	⊙	⊙			
GRAVEL DRIVEWAY	⊙	⊙			
ASPHALT/CONCRETE/GRAVEL DEMOLITION	⊙	⊙			
STRUCTURE DEMOLITION	⊙	⊙			
YARD PIPE DEMOLITION	⊙	⊙			
YARD PIPE ABANDONMENT	⊙	⊙			

DISCLAIMER:
 THE ENGINEER DOES NOT WARRANT, GUARANTEE, NOR ASSUME RESPONSIBILITY AS TO THE PRECISION OR ACCURACY OF THE PROPERTY LINES, RIGHTS-OF-WAY, EASEMENT LIMITS, CONTOURS, SOIL TYPE DELINEATION, PROPERTY OWNERS, OR EXISTING UTILITIES SHOWN ON THIS PLAN. THIS INFORMATION IS COMPILED BY THIRD PARTY SOURCES AND IS PROVIDED FOR THE CONVENIENCE OF THE CONTRACTOR.

GENERAL CONSTRUCTION NOTES

- CONTRACTOR WILL BE WORKING ON COUNTY RIGHT-OF-WAY AND CITY-OWNED PROPERTY.
- CONTRACTOR WILL BE RESPONSIBLE FOR CLEARING, GRUBBING, HAULING, AND DISPOSAL OF DEBRIS WITHIN THE REQUIRED WORK AREA.
- CONTRACTOR SHALL HAVE PERIMETER SOIL EROSION CONTROL MEASURES IN PLACE BEFORE CONSTRUCTION BEGINS.
- CONTRACTOR TO NOTIFY UTILITY PROTECTION AGENCY 72 HOURS PRIOR TO START OF WORK. PHONE NUMBER: 811 OR 1-800-285-7411.
- CONSTRUCTION ACTIVITIES ARE PROHIBITED WITHOUT PRIOR AUTHORIZATION OF ENGINEER AND REGULATORY AGENCIES WITHIN ENVIRONMENTALLY SENSITIVE AREAS (STREAMS, RIPARIAN BUFFERS, FLOOD PLAIN, WETLANDS, ETC.).
- ALL UNSUITABLE EXCAVATED MATERIAL AND ALL EXCESS EXCAVATED MATERIAL SHALL BE REMOVED AND PROPERLY DISPOSED OFFSITE BY THE CONTRACTOR.
- STORAGE OF MATERIALS AND EQUIPMENT SHALL BE COORDINATED IN ADVANCE BY CONTRACTOR.
- ALL CONSTRUCTION SHALL COMPLY WITH THE DEPARTMENT OF LABOR, OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION, 29 CFR PART 126, SUBPART P, LATEST REVISION.
- EXISTING UTILITY LINES SHOWN ARE APPROXIMATE LOCATIONS ONLY. THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING UTILITY LINE LOCATIONS AND ELEVATIONS PRIOR TO ANY CONSTRUCTION AND MATERIAL ORDERS. ANY DEVIATIONS FROM THE DESIGN LOCATION SHALL BE REPORTED TO THE ENGINEER PRIOR TO CONSTRUCTION. DAMAGE TO EXISTING UTILITY LINES RESULTING FROM THE CONTRACTOR'S NEGLIGENCE SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE TO THEIR ORIGINAL CONDITION AND QUALITY, AS APPROVED BY THE OWNER AND REPRESENTATIVE OF THE APPROPRIATE UTILITY COMPANY.
- CONTRACTOR SHALL MAINTAIN A MINIMUM 1 FT COVER ON STORM DRAINAGE PIPES AND A MINIMUM OF 3 FT COVER ON WATER MAINS.
- WHEN CONSTRUCTION INVOLVES THE REMOVAL OF FENCE, POLES, DRIVES, TEMPORARY OR FIXED STRUCTURES, THE CONTRACTOR, AT HIS EXPENSE, SHALL PROVIDE FOR TEMPORARY ACCESS, SERVICE, OR CONTAINMENT TO THE AFFECTED PROPERTY, AND SHALL REPLACE SUCH ITEMS WITH SIMILAR OR BETTER MATERIALS AS SOON AS PRACTICAL OR AS DIRECTED BY THE ENGINEER FOLLOWING INSTALLATION.
- PEDESTRIAN AND LOCAL VEHICULAR TRAFFIC SHALL BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION. SAFETY DEVICES, SIGNAGE, AND FLAGMEN SHALL BE PROVIDED BY THE CONTRACTOR AT HIS EXPENSE. WRITTEN PERMISSION TO CLOSE THE CONSTRUCTION AREA TO TRAFFIC MUST BE OBTAINED FROM THE APPROPRIATE GOVERNMENT AGENCY PRIOR TO THE CLOSING.
- CONTRACTOR MAY TEMPORARILY DIVERT DITCHES AT HIS EXPENSE, USING PROPER EROSION CONTROL MEASURES, IF AUTHORIZED BY THE ENGINEER.
- ALL CONSTRUCTION STAKING SHALL BE DONE BY THE CONTRACTOR AT HIS EXPENSE.
- CONTRACTOR IS TO CONSTRUCT THE UTILITIES AS SHOWN ON THE PLANS. WHERE UNDERGROUND UTILITIES EXIST, THE CONTRACTOR SHALL MAINTAIN A MINIMUM OF 18 INCHES OF SEPARATION BETWEEN EXISTING UTILITIES AND PROPOSED LINES, UNLESS DIRECTED BY THE ENGINEER.
- CONTRACTOR SHALL MAINTAIN FIELD "AS-BUILT" DRAWINGS AND SHALL MEASURE/SHOW ALL DEVIATIONS, UTILITY CONFLICTS, AND APPROVED FIELD CHANGES.
- CONTRACTOR SHALL MATCH EXISTING GRASS WHEN REPAIRING GRASSED AREAS DISTURBED BY UTILITY WORK.
- ALL EROSION AND SEDIMENTATION CONTROL SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE COMPLETED AS DIRECTED BY THE ENGINEER'S PERMITTED DRAWINGS.
- SILT FENCE IS REQUIRED AS SHOWN. ADDITIONAL SILT FENCE/HAY BALES MAY BE NECESSARY IN AREAS WHERE UTILITY CONSTRUCTION IS IN EXISTING DITCH. ENGINEER OR OWNER MAY REQUIRE ADDITIONAL SILT FENCE/HAY BALES DEPENDING ON BMP EFFECTIVENESS.
- IF THE CONTRACTOR DAMAGES ANY EXISTING ROAD SURFACES OR STRUCTURES, HE SHALL, AT HIS OWN EXPENSE, REPLACE OR REPAIR TO ITS ORIGINAL CONDITION AS APPROVED BY THE ENGINEER. ANY AREA THAT THE CONTRACTOR MAY FIND QUESTIONABLE SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER AND OWNER BEFORE CONSTRUCTION BEGINS.
- THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PREVENT ANY DISRUPTIONS OF THE WATER SERVICES. ANY UTILITIES DAMAGED MUST BE REPAIRED THE SAME DAY UNLESS WRITTEN PERMISSION FROM OWNER IS GIVEN.
- CONTRACTOR SHALL FLUSH AND DISINFECT ALL EXISTING AND PROPOSED PIPES AS REQUIRED BY GEORGIA ENVIRONMENTAL PROTECTION DIVISION PRIOR TO PLACING THEM BACK IN SERVICE.
- ALL GATE VALVES EXPOSED TO NATURAL GRADE SHALL BE ENCLOSED BY A CONCRETE VALVE PAD.
- CONTRACTOR SHALL CONDUCT PERFORMANCE TESTING TO DEMONSTRATE TO OWNER THAT GROUND STORAGE TANK AND YARD PIPING HAVE BEEN CONSTRUCTED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.

REVISIONS:

A	INITIAL RELEASE	5/1/28

**NEW FIRE TOWER ROAD (BROGDON)
 2MG GROUND STORAGE TANK**
 FOR THE
CITY OF CALHOUN
 GORDON COUNTY, GEORGIA

CITY OF CALHOUN
UTILITIES ENGINEERING
CALHOUN, GEORGIA 30701
 PHONE: (706) 629-4701



THIS LINE IS ONE INCH LONG WHEN DRAWING IS PLOTTED FULL SCALE

DSGN: K.T.M	DRWN: ATL
DWG. NAME: FIRE TOWER MASTER	
PROJ. NO.: 358	SHEET NO.: 1
DATE: MAY 2026	OF 10 SHEETS

GENERAL CONSTRUCTION NOTES

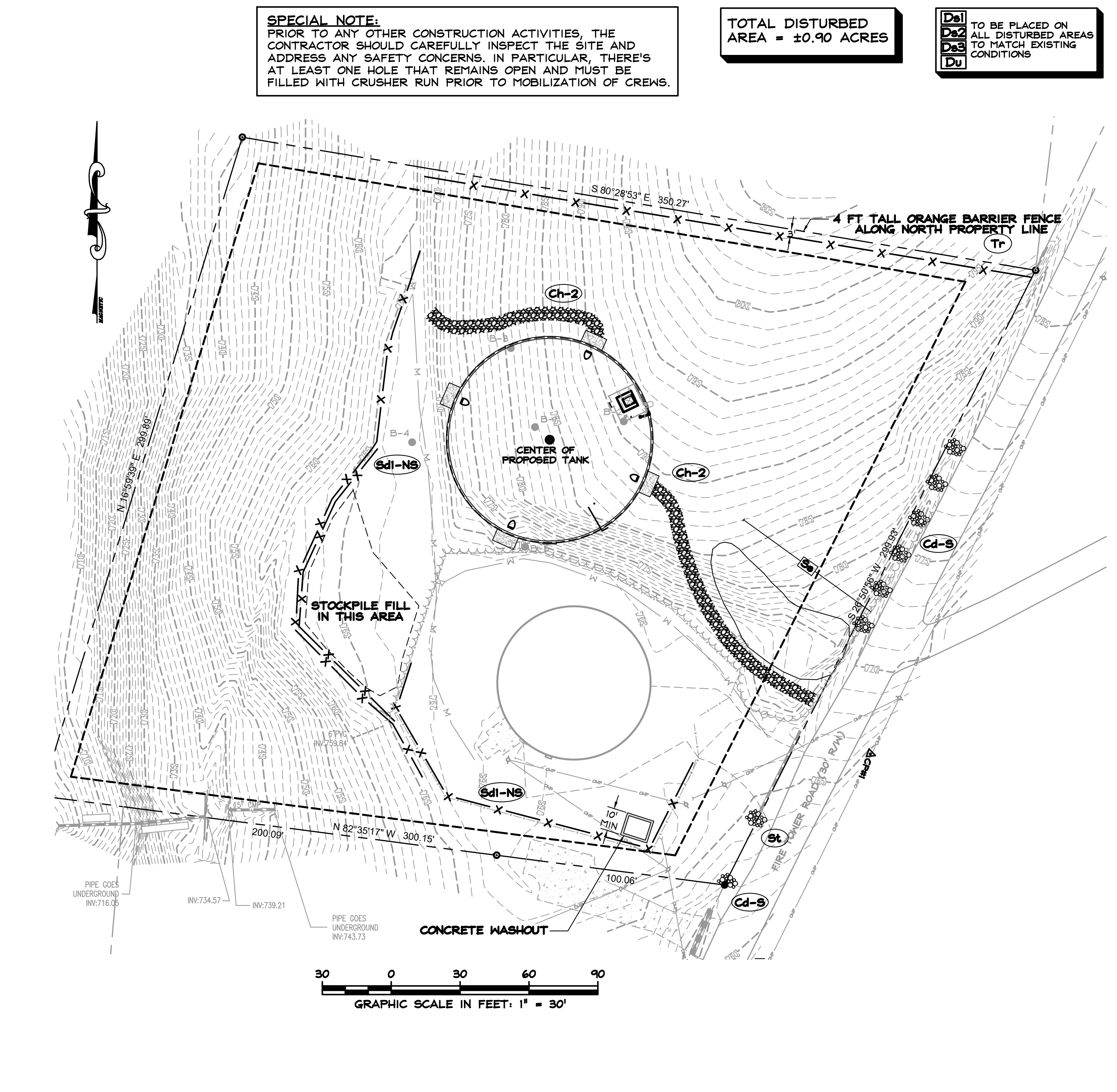
LEVEL II CERTIFIED DESIGN
 PROFESSIONAL CERT. # 62026
 EXPIRES: 8/13/2028

GEORGIA UNIFORM CODING SYSTEM FOR SOIL EROSION & SEDIMENT CONTROL PRACTICES

STRUCTURAL PRACTICES				
CODE	PRACTICE	DETAIL	MAP SYMBOL	DESCRIPTION
Cd	CHECKDAMS			A small temporary barrier or dam constructed across a gully, drainage ditch or area of concentrated flow.
Co	CONSTRUCTION EXIT			A crushed stone pad located at the construction site exit to provide a place for removing mud from tires, thereby protecting public streets.
Cr	CONSTRUCTION ROAD STABILIZATION			A travertine to provide a fixed route for travel for construction traffic and reduce erosion and subsequent regrading of permanent roadways between time of initial grading and final stabilization.
Di	DIVERSION			An earth channel or dike located above, below, or across a slope to divert runoff. This may be a temporary or permanent structure.
Dn1	TEMPORARY DOWNDRAIN STRUCTURE			A temporary flexible conduit of heavy-duty fabric or other material designed to safely conduct surface runoff down a slope. This is temporary and inexpensive.
Dn2	PERMANENT DOWNDRAIN STRUCTURE			A permanent paved chute, pipe, sectional conduit or similar material, designed to safely conduct surface runoff down a slope.
Dr1	DRAIN, SUBSURFACE	(SEE FRENCH DRAIN DETAIL)		Underground conduit to remove excess ground water.
Fr	FILTER RING			A temporary stone barrier constructed at storm drain inlets and pond outlets.
Rt	RETROFITTING			A device or structure placed in front of a permanent stormwater retention pond outlet structure to serve as a temporary sediment filter.
Sd1	SEDIMENT BARRIER			A barrier to prevent sediment from leaving the construction site. It may be sandbags, bales of straw or hay, brush, logs and poles, gravel, or a sediment fence. The barriers are usually temporary and inexpensive.
Sd2	SEDIMENT TRAP TEMPORARY			around a storm drain drop inlet. The excavated area will be filled and stabilized on completion of construction activities.
Sd3	SEDIMENT BASIN TEMPORARY			A basin created by excavation or a dam across a roadway. The surface water run-off is temporarily stored allowing the bulk of the sediment to drop out. The basin is usually temporary but may be designed as a permanent pond or stormwater retention device.
St	STORM DRAIN INLET/OUTLET PROTECTION			A paved or short section of riprap channel at the outlet of a storm drain system preventing erosion from the concentrated runoff.
Tp	TOPSOILING			The practice of stripping off the more fertile topsoil, storing it, then spreading it over the disturbed area after the completion of construction activities.
Wt	VEGETATED WATERWAY OR STORMWATER CONVEYANCE CHANNEL			Paved or vegetative water outlets for diversions, terraces, berms, dikes or similar structures.

VEGETATIVE PRACTICES				
CODE	PRACTICE	DETAIL	MAP SYMBOL	DESCRIPTION
Bf	BUFFER ZONE			An undisturbed natural "green belt" separating the land-disturbed site from surrounding property and bordering streams. It serves to reduce water velocity and remove some sediment. It is also at times a noise or "vision reduction" barrier.
Ds1	DISTURBED AREA STABILIZATION (WITH MULCHING ONLY)			Establishing temporary protection for disturbed areas where seedlings may not have a suitable growing season to produce an erosion retarding cover.
Ds2	DISTURBED AREA STABILIZATION (WITH TEMPORARY SEEDING)			Establish a temporary vegetative cover with fast growing seedlings on disturbed areas.
Ds3	DISTURBED AREA STABILIZATION (WITH PERMANENT VEGETATION)			Establishing permanent vegetative cover such as trees, shrubs, vines, grasses, sod or legumes on disturbed areas.
Ds4	DISTURBED AREA STABILIZATION (WITH SODDING)			Establishing permanent vegetative cover with sod on highly erodible or critically eroded lands.
Du	DUST CONTROL ON DISTURBED AREAS			Controlling surface and air movement of dust on construction sites, roadways and similar areas.
Mb	EROSION CONTROL MATS AND BLANKETS			Establishing permanent vegetation on steep slopes, channels, or shorelines.

- EROSION & SEDIMENTATION, & POLLUTION CONTROL NOTES:**
- SEDIMENT AND EROSION CONTROL MEASURES SHALL BE INSTALLED AND MAINTAINED IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS, AND LOCAL AND STATE REQUIREMENTS AND SPECIFICATIONS MUST MEET, AT A MINIMUM, GUIDELINES SET FORTH IN THE "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA." FAILURE TO INSTALL, OPERATE, OR MAINTAIN ALL EROSION CONTROL MEASURES CAN RESULT IN CONSTRUCTION BEING HALTED ON THE JOB UNTIL SUCH MEASURES ARE CORRECTED.
 - EROSION CONTROL MEASURES WILL BE MAINTAINED AT ALL TIMES. IF FULL IMPLEMENTATION OF THE APPROVED PLAN DOES NOT PROVIDE FOR EFFECTIVE EROSION CONTROL, ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED TO CONTROL OR TREAT THE SEDIMENT SOURCE AS DIRECTED BY THE ON SITE INSPECTOR OR THE CIVIL ENGINEER.
 - EACH DAY WHEN ANY TYPE OF CONSTRUCTION ACTIVITY HAS TAKEN PLACE, QUALIFIED PERSONNEL SHALL (A) INSPECT ALL AREAS WHERE PETROLEUM PRODUCTS ARE STORED, USED OR HANDLED, (B) INSPECT ALL LOCATIONS WHERE VEHICLES ENTER OR EXIT THE SITE.
 - A SITE INSPECTION SHALL BE CONDUCTED WITHIN 24 HOURS OF THE END OF ANY RAINFALL EVENT THAT IS GREATER THAN OR EQUAL TO 0.5-IN PER 24 HR AND, AT LEAST, EVERY SEVEN (7) DAYS. EACH DEVICE IS TO BE MAINTAINED OR REPLACED IF SEDIMENT ACCUMULATION HAS REACHED HALF THE CAPACITY OF THE DEVICE. ADDITIONAL DEVICES MUST BE INSTALLED IF NEW CHANNELS HAVE DEVELOPED. QUALIFIED PERSONNEL SHALL INSPECT AT LEAST ONCE PER MONTH AREAS THAT HAVE UNDERGONE FINAL STABILIZATION.
 - ANY DEFICIENCIES IDENTIFIED DURING THE INSPECTION OF BMPs SHALL BE CORRECTED WITHIN SEVEN (7) DAYS OF THE INSPECTION.
 - PRIOR TO COMMENCING LAND DISTURBANCE ACTIVITY, THE LIMITS OF LAND DISTURBANCE SHALL BE CLEARLY AND ACCURATELY DEMARCATED WITH STAKES, RIBBONS, OR OTHER APPROPRIATE MEANS. THE LOCATION AND EXTENT OF ALL AUTHORIZED LAND DISTURBANCE ACTIVITY SHALL BE DEMARCATED FOR THE DURATION OF THE CONSTRUCTION ACTIVITY. NO LAND DISTURBANCE SHALL OCCUR OUTSIDE THE APPROVED LIMITS INDICATED ON THE APPROVED PLANS.
 - IMMEDIATELY AFTER THE ESTABLISHMENT OF CONSTRUCTION ENTRANCES AND EXITS, ALL PERIMETER EROSION CONTROL DEVICES AND STORMWATER MANAGEMENT DEVICES SHALL BE INSTALLED PRIOR TO ANY OTHER CONSTRUCTION. THE LOCATION OF CERTAIN EROSION CONTROL DEVICES MAY REQUIRE ALTERING FROM THE LOCATIONS SHOWN ON THE DRAWING IF DRAINAGE PATTERNS DURING CONSTRUCTION DIFFER FROM THE FINAL GRADING PLANS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ACCOMPLISH EROSION CONTROL FOR DRAINAGE PATTERNS CREATED AT VARIOUS STAGES DURING CONSTRUCTION. AT ALL TIMES, 67 CUBIC YARDS OF SEDIMENT STORAGE MUST BE AVAILABLE FOR EACH ACRE OF DISTURBED LAND.
 - ALL B.M.P. DEVICES, PRACTICES, AND MATERIALS SHALL BE DESIGNED AND INSTALLED TO WITHSTAND EFFECTS OF A MINIMUM 25-YEAR STORM EVENT.
 - DIVERSION DITCHES, BERMS AND TEMPORARY DOWN DRAINS SHALL BE USED DURING OPERATIONS TO PROVIDE SEDIMENT CONTROL FOR DISTURBED AREAS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLATION OF THESE MEASURES DURING THE VARIOUS PHASES OF GRADING. THESE MEASURES MAY OR MAY NOT BE INDICATED ON THE DRAWINGS.
 - SILT MATERIALS SHALL BE REMOVED WHEN ACCUMULATION REACHES ONE HALF THE HEIGHT OF SILT BARRIER.
 - NO STAGING AREAS, MATERIAL STORAGE, CONCRETE WASH OUT AREAS, OR DEBRIS BURN AND BURIAL HOLES SHALL BE LOCATED WITHIN 300 FEET OF DESIGNATED TREE PROTECTION AREAS.
 - SEDIMENT BARRIERS SHALL MEET D.O.T. STANDARDS AND SPECIFICATIONS AND SHALL BE INSTALLED AS DETAILED ON THE DRAWINGS.
 - ADDITIONAL EROSION AND SEDIMENTATION CONTROL MEASURES WILL BE INSTALLED BY CONTRACTOR IF DEEMED NECESSARY BY ON-SITE INSPECTION.
 - ESTABLISHMENT OF TEMPORARY AND PERMANENT VEGETATION FOR THIS PROJECT SHALL CONSIST OF THE FOLLOWING: THE GROUND PREPARATION, SEEDING, MULCHING AND HYDROSEEDING OF ALL DISTURBED AREAS IN THE PROJECT AREA IN ACCORDANCE WITH THE FOLLOWING SCHEDULE. GROUND PREPARATION SEEDING, MULCHING AND HYDROSEEDING METHODS SHALL CONFORM TO THE SPECIFICATIONS.
 - MULCH, TEMPORARY VEGETATION, OR PERMANENT (PERENNIAL) VEGETATION SHALL BE COMPLETED ON ALL EXPOSED AREAS BY THE 7TH DAY AFTER CONSTRUCTION ACTIVITIES TEMPORARILY OR PERMANENTLY CEASE.
 - MULCHING ALONE: MULCHING ALONE CAN BE USED ON ROUGH GRADED AREAS FOR UP TO SIX MONTHS. IT SHALL BE APPLIED AT THE APPROPRIATE DEPTH, ANCHORED, AND MAINTAIN A CONTINUOUS 90% COVER OR GREATER OF THE SOIL SURFACE. SEE MULCHING TABLE.
 - TEMPORARY SEEDING: SHALL BE USED ON AREAS THAT WILL BE UNDISTURBED FOR LESS THAN SIX MONTHS. SEE GRASSING TABLE.
 - PERMANENT VEGETATION: SHALL BE USED ON AREAS THAT ARE AT FINAL GRADE OR ON AREAS THAT WILL BE UNDISTURBED FOR MORE THAN SIX MONTHS. SEE GRASSING TABLE AND MULCHING SCHEDULE.
 - EROSION CONTROL BLANKETS OR SODDING SHALL BE USED ON (1) ALL SLOPES STEEPER THAN 2 1/2:1 AND GREATER THAN OR EQUAL TO 10 FEET IN HEIGHT, UNLESS COVERED BY SHOTCRETE, (2) ALL CONCENTRATED FLOW AREAS, AND (3) CUTS AND FILLS ADJACENT TO STATE WATERWAYS. REFER TO DRAWINGS FOR THESE MEASURES.
 - CONTRACTOR SHALL MAINTAIN ON PROJECT SITE DIRECTIONS FOR NECESSARY ACTIONS SHOULD ANY FUEL OR HAZARDOUS CHEMICAL SPILL OCCUR AT THE PROJECT SITE OR DURING TRANSPORTATION OPERATIONS TO OR FROM THE PROJECT SITE.
 - CONTRACTOR SHALL EMPLOY APPROPRIATE MEASURES TO CONTROL DUST WITH THE UNDERSTANDING WATER USE RESTRICTIONS COULD BE IMPOSED DURING SOME OR ALL PHASES OF CONSTRUCTION.
 - ANY AMENDMENTS OR REVISIONS TO THE ES & PC PLAN WHICH EFFECT A B.M.P. WITH A HYDRAULIC COMPONENT MUST BE CERTIFIED BY THE DESIGN PROFESSIONAL.
 - NO WASTE MATERIALS SHALL BE DISCHARGED INTO WATERS OF THE STATE, UNLESS AUTHORIZED BY A SECTION 404 PERMIT.
 - PREPARATION OF ES & PC PLAN AND ACTIVITIES OF CONTRACTOR SHALL BE IN COMPLIANCE WITH WASTE DISPOSAL, SANITARY SEWER, OR SEPTIC TANK REGULATIONS.
 - TEMPORARY MEASURES SUCH AS SILT FENCING SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR ONCE THE AREA DRAINING TO THE BMP HAS REACHED FINAL STABILIZATION. FINAL STABILIZATION MEANS THAT ALL LAND-DISTURBING ACTIVITIES HAVE BEEN COMPLETED AND THAT FOR UNPAVED AREAS AND AREAS NOT COVERED BY PERMANENT STRUCTURES, THE SOIL SURFACE IS UNIFORMLY COVERED IN PERMANENT VEGETATION OR THAT EQUIVALENT PERMANENT STABILIZATION MEASURES (SUCH AS RIP RAP, GABIONS, PERMANENT MULCHES, OR GEOTEXTILES) HAVE BEEN EMPLOYED.
 - PERMANENT CONTROL STRUCTURES SHALL BE MAINTAINED BY THE CONTRACTOR FOR A PERIOD OF 1 YEAR FOLLOWING ACCEPTANCE OF THE PROJECT.
 - THE DESIGN PROFESSIONAL WHO PREPARED AND CERTIFIED THE EROSION AND SEDIMENT CONTROL PLAN SHALL INSPECT THE INSTALLATION OF THE INITIAL SEDIMENT STORAGE AND PERIMETER CONTROL BMP'S WITHIN 7 DAYS OF INSTALLATION. CONTRACTOR SHALL NOTIFY DESIGN PROFESSIONAL IMMEDIATELY UPON INSTALLATION OF INITIAL BMP'S TO SCHEDULE REQUIRED INSPECTION.
 - WORK ON THIS PROJECT WILL DISTURB LESS THAN 1 ACRE.
 - ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE CONTINUOUSLY MAINTAINED BY THE CONTRACTOR DURING THE CONSTRUCTION PHASE OF THIS PROJECT.
 - THE ESCAPE OF SEDIMENT FROM THE SITE SHALL BE PREVENTED BY THE INSTALLATION OF EROSION AND SEDIMENT CONTROL MEASURES AND PRACTICES PRIOR TO, OR CONCURRENT WITH, LAND DISTURBING ACTIVITIES.
 - EROSION CONTROL MEASURES WILL BE MAINTAINED AT ALL TIMES. IF FULL IMPLEMENTATION OF THE APPROVED PLAN DOES NOT PROVIDE FOR EFFECTIVE EROSION CONTROL, ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED TO CONTROL OR TREAT THE SEDIMENT SOURCE.
 - ANY DISTURBED AREA LEFT EXPOSED FOR A PERIOD GREATER THAN 14 DAYS SHALL BE STABILIZED WITH MULCH OR TEMPORARY SEEDING.
 - THIS PROJECT IS BEING CONSTRUCTED ON PROPERTY AND EASEMENTS BELONGING TO THE CITY OF CALHOUN.

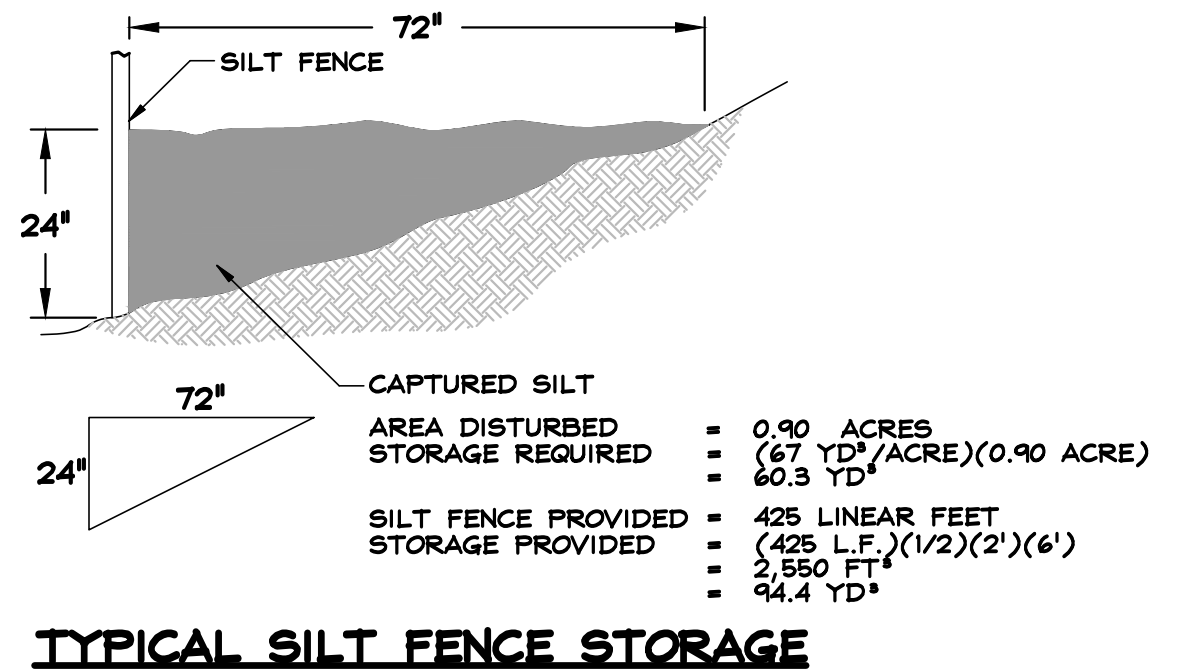


APPROX. STARTING DATE: AUGUST 2026

ITEM	DESCRIPTION	DAYS OF CONSTRUCTION ACTIVITY							
		30	60	90	120	150	180	210	240
1	INSTALLATION OF CONST. EXIT, SED. BARRIER & OTHER PERIMETER CONTROLS.								
2	GRADING, DRAINAGE, & TEMP. STABILIZATION								
3	TANK CONSTRUCTION								
4	YARD PAVING								
5	PERMANENT STABILIZATION								
6	CLEAN-UP & TRANSFER OF SERVICE								
7	REMOVAL OF EROSION CONTROL BMP'S								

SCHEDULE NOTES:

- SEDIMENT STRUCTURES SHALL BE INSTALLED PRIOR TO LAND-DISTURBANCE (INCLUDING CLEARING & GRUBBING.)
- IF CLEARING & GRUBBING PRECEEDS CONSTRUCTION BY MORE THAN SEVEN DAYS, DISTURBED AREAS SHALL BE MULCHED AND CHECK DAMS INSTALLED IMMEDIATELY PROCEEDING THE LAND-DISTURBING ACTIVITY.
- EROSION & SEDIMENT CONTROL STRUCTURES SHALL BE REMOVED ONCE "FINAL STABILIZATION" HAS BEEN ACHIEVED.
- DESIGN PROFESSIONAL SHALL INSPECT THE INSTALLATION OF BMP'S WITHIN 7 DAYS AFTER INITIAL CONSTRUCTION ACTIVITY BEGINS.



24-HOUR EMERGENCY CONTACT
KURT T. McCORD, PE
CALHOUN UTILITIES ENGINEERING DEPT.
PHONE: (706) 602-6082



SOIL EROSION AND SEDIMENT CONTROL PLAN

REVISIONS:

A	INITIAL RELEASE	5/1/26

NEW FIRE TOWER ROAD (BROGDON)
2MG GROUND STORAGE TANK
FOR THE
CITY OF CALHOUN
GORDON COUNTY, GEORGIA

CITY OF CALHOUN
UTILITIES ENGINEERING
CALHOUN, GEORGIA 30701
PHONE: (706) 629-4701



THIS LINE IS ONE INCH LONG WHEN DRAWING IS PLOTTED FULL SCALE

DSGN: K.T.M	DRWN: ATL
DWG. NAME: FIRE TOWER MASTER	
PROJ. NO.: 358	
DATE: MAY 2026	SHEET NO.: 2 OF 10 SHEETS



REVISIONS:	
A INITIAL RELEASE	5/1/28

NEW FIRE TOWER ROAD (BROGDON)
 2MG GROUND STORAGE TANK
 FOR THE
 CITY OF CALHOUN
 GORDON COUNTY, GEORGIA

CITY OF CALHOUN
 UTILITIES ENGINEERING
 CALHOUN, GEORGIA 30701
 PHONE: (706) 629-4701



THIS LINE IS ONE INCH LONG WHEN DRAWING IS PLOTTED FULL SCALE	
DSGN: K.T.M	DRWN: ATL
DWG. NAME: FIRE TOWER MASTER	
PROJ. NO.: 358	
DATE:	SHEET NO.:
MAY 2026	3
OF 10 SHEETS	

Ds3 DISTURBED AREA STABILIZATION (WITH PERMANENT VEGETATION)

SPECIES	BROADCAST RATES 2' - PLS 3'		RESOURCE AREA	PLANTING RATES BY RESOURCE AREA PLANTING DATES												REMARKS	
	PER ACRE	PER 1000 SQ. FT.		OPTIMUM	PERMISSIBLE BUT MARGINAL	J	F	M	A	M	J	J	A	S	O		N
BERMUDA, COMMON (CYNODON DACTYLON) HULLED SEED	10 LBS	0.2 LB	P														1787,000 SEED PER POUND. QUICK COVER. LOW GROWING AND SOO FORMING. FULL SUN. GOOD FOR ATHLETIC FIELDS.
BERMUDA, COMMON (CYNODON DACTYLON) UNHULLED SEED	10 LBS	0.2 LB	P														PLANT WITH WINTER ANNUALS. PLANT WITH TALL FESCUE.
CENTIPEDIA (EREMOCHLOA OPHUROIDES)	BLOCK SOO ONLY		P														DROUGHT TOLERANT. FULL SUN OR PARTIAL SHADE. EFFECTIVE ADJACENT TO CONCRETE AND IN CONCENTRATED FLOW AREAS. IRRIGATION AS NEEDED UNTIL FULLY ESTABLISHED. DO NOT PLANT NEAR PASTURES. WINTERBURN AS FAR NORTH AS ATHENS AND ATLANTA.
FESCUE, TALL (FESTUCA ARUNDINACEA)	50 LBS	1.1 LB	M-L														227,000 SEED PER POUND. USE ALONE ONLY ON BETTER SITES. NOT FOR DROUGHTY SOILS. MIX WITH PERENNIAL LESPEDEZAS OR CROWNVEGET. APPL. TOPDRESSING IN SPRING FOLLOWING FALL PLANTINGS. NOT FOR HEAVY USE AREAS OR ATHLETIC FIELDS.
LESPEDEZA, SERICEA (LESPEDEZA CUNEATA)	60 LBS	1.4 LB	M-L														380,000 SEED PER POUND. WIDELY ADAPTED. LOW MAINTENANCE. MIX WITH KEEPING LOVEGRASS, COMMON BERMUDA, BAHIA, OR TALL FESCUE. TAKES 2 TO 3 YEARS TO BECOME FULLY ESTABLISHED. EXCELLENT ON ROAD BANKS. INOCULATE SEED WITH EL INOCULANT.
UNSCARIFIED	75 LBS	1.7 LB	M-L														MIX WITH TALL FESCUE OR WINTER ANNUALS.
SEED-BEARING HAY	3 TONS	186 LB	M-L														CUT WHEN SEED IS MATURE. BUT BEFORE IT SHATTERS. TALL FESCUE OR WINTER ANNUALS.
LOVEGRASS, KEEPING (ERAGROSTIS CURVULA)	4 LBS	0.1 LB	P														1,500,000 SEED PER POUND. QUICK COVER. DROUGHT TOLERANT. GROWS WELL WITH SERICEA LESPEDEZA OR ROADGRASS.
ALONE WITH OTHER PERENNIALS	2 LBS	0.06 LB	P														

SPECIFICATIONS:

A. GRADING AND SHAPING
1. GRADING AND SHAPING IS NOT NORMALLY REQUIRED WHERE HYDRAULIC SEEDING AND FERTILIZING EQUIPMENT IS TO BE USED. VERTICAL BANKS SHALL BE SLOPED TO ENABLE PLANT ESTABLISHMENTS.

B. SEEDBED PREPARATION
1. SEEDBED PREPARATION MAY NOT BE REQUIRED WHERE HYDRAULIC SEEDING AND FERTILIZING EQUIPMENT IS TO BE USED. 2. WHEN CONVENTIONAL SEEDING IS TO BE USED, SEEDBED PREPARATION WILL BE DONE AS FOLLOWS:
A. BROADCAST PLANTING
1. TILLAGE AT A MINIMUM, SHALL ADEQUATELY LOOSEN THE SOIL TO A DEPTH OF 4 TO 6 INCHES; ALLEVIATE COMPACTION, INCORPORATE LIME AND FERTILIZER, SMOOTH AND FIRM THE SOIL, ALLOW FOR THE PROPER PLACEMENT OF SEED SPRIGS, OR PLANTS; AND ALLOW FOR THE ANCHORING OF STRAW OR HAY MULCH IF A DISK IS TO BE USED.

C. LIME AND FERTILIZER -- RATES AND ANALYSIS
1. WHERE PERMANENT VEGETATION IS TO BE ESTABLISHED, AGRICULTURAL LIME SHALL BE APPLIED AS INDICATED BY SOIL TEST OR AT THE RATE OF 1 TO 2 TONS PER ACRE. AGRICULTURAL LIME SHALL BE WITHIN THE SPECIFICATIONS OF THE GEORGIA DEPARTMENT OF AGRICULTURE.
2. LIME SPREAD BY CONVENTIONAL EQUIPMENT WILL BE "GROUND LIMESTONE" GROUND LIMESTONE IS CALCITIC OR DOLOMITIC LIMESTONE GROUND SO THAT 90 PERCENT OF THE MATERIAL WILL PASS THROUGH A 10-MESH SIEVE AND NOT LESS THAN 25 PERCENT WILL PASS THROUGH A 100-MESH SIEVE.
3. AGRICULTURAL LIME SPREAD BY HYDRAULIC SEEDING EQUIPMENT WILL BE "FINELY GROUND LIMESTONE" FINELY GROUND LIMESTONE IS CALCITIC OR DOLOMITIC LIMESTONE GROUND SO THAT 98 PERCENT OF THE MATERIAL WILL PASS THROUGH A 20-MESH SIEVE AND NOT LESS THAN 70 PERCENT WILL PASS THROUGH A 100-MESH SIEVE.

D. LIME FERTILIZER -- APPLICATION
1. WHEN HYDRAULIC SEEDING EQUIPMENT IS USED:
A. THE INITIAL FERTILIZER WILL BE MIXED WITH SEED, INOCULANT (IF NEEDED) AND WOOD CELLULOSE OR WOOD PULP FIBER MULCH AND APPLIED IN A SLURRY. THE MIXTURE WILL BE AGITATED DURING APPLICATION TO KEEP THE INGREDIENTS THOROUGHLY MIXED. THE MIXTURE WILL BE SPREAD UNIFORMLY OVER THE AREA WITHIN ONE HOUR AFTER BEING PLACED IN THE HYDROSEEDER.
B. FINELY GROUND LIMESTONE WILL BE MIXED WITH WATER AND APPLIED IMMEDIATELY AFTER MULCHING IS COMPLETED OR IN COMBINATION WITH THE TOP DRESSING.
2. WHEN CONVENTIONAL PLANTING IS TO BE DONE, LIME AND FERTILIZER WILL BE APPLIED UNIFORMLY IN ONE OF THE FOLLOWING WAYS:
A. APPLY BEFORE LAND PREPARATION SO THAT IT WILL BE MIXED WITH THE SOIL DURING SEEDBED PREPARATION, OR
B. MIX WITH THE SOIL USED TO FILL THE HOLES, DISTRIBUTE IN FURROWS, OR
C. BROADCAST AFTER STEEP SURFACES AND SCARIFIED, PITTED OR TRENCHED.
D. A FERTILIZER PELLETT WILL BE PLACED AT ROOT DEPTH.

* REVISED 7/01 PER 5TH EDITION OF MANUAL FOR EROSION & SEDIMENT CONTROL IN GEORGIA.

Ds2 DISTURBED AREA STABILIZATION (WITH TEMPORARY SEEDING)

SPECIES	BROADCAST RATES 2' - PLS 3'		RESOURCE AREA	PLANTING RATES BY RESOURCE AREA PLANTING DATES												REMARKS	
	PER ACRE	PER 1000 SQ. FT.		OPTIMUM	PERMISSIBLE BUT MARGINAL	J	F	M	A	M	J	J	A	S	O		N
MILLET, PEARL (PENNISETUM GLAUCUM)	50 LBS	1.1 LB	P														88,000 SEED PER POUND. QUICK DENSE COVER. MAY REACH 5 FEET IN HEIGHT. NOT RECOMMENDED FOR MIXTURES.
RYEBRESS, ANNUAL (LOLIUM TEMULENTUM)	40 LBS	0.9 LB	P														227,000 SEED PER POUND. DENSE COVER. VERY COMPETITIVE. VERY COMPETITIVE AND IS NOT TO BE USED IN MIXTURES.
SUDANGRASS (SORGHUM SUDANENSE)	60 LBS	1.4 LB	P														55,000 SEED PER POUND. GOOD ON DROUGHTY SITES. NOT RECOMMENDED FOR MIXTURES.
MILLET, BROWNTOP (PANGOL PASCUALUTUM)	40 LBS	0.9 LB	M-L														187,000 SEED PER POUND. QUICK DENSE COVER. WILL PROVIDE TOO MUCH COMPETITION IN MIXTURES IF SEEDING AT HIGH RATES.

SPECIFICATIONS:

A. GRADING AND SHAPING
1. EXCESSIVE WATER RUNOFF MUST BE CONTROLLED BY PLANNED AND INSTALLED EROSION CONTROL PRACTICES SUCH AS CLOSED DRAINS, DITCHES, DIKES, DIVERSIONS, SEDIMENT BASINS AND OTHERS.

B. SEEDBED PREPARATION
1. WHEN A HYDRAULIC SEEDER IS USED, SEEDBED PREPARATION IS NOT REQUIRED. 2. WHEN USING CONVENTIONAL OR HAND-SEEDING, SEEDBED PREPARATION IS NOT REQUIRED IF THE SOIL MATERIAL IS LOOSE AND NOT SEALED BY RAINFALL. 3. WHEN SOIL HAS BEEN SEALED BY RAINFALL OR CONSISTS OF SMOOTH UNDISTURBED CUT SLOPES, THE SOIL SHALL BE PITTED, TRENCHED, OR OTHERWISE SCARIFIED TO PROVIDE A PLACE FOR SEED TO LODGE AND GERMINATE.

C. LIME AND FERTILIZER
1. AGRICULTURAL LIME IS REQUIRED UNLESS SOIL TESTS INDICATE OTHERWISE. ALL GRADED AREAS REQUIRE LIME APPLICATION. 2. ON REASONABLY FERTILE SOILS OR SOIL MATERIAL, FERTILIZER IS NOT REQUIRED IF VERIFIED BY SOIL ANALYSIS. 3. ON SOILS OF VERY LOW FERTILITY, USE 500 TO 750 POUNDS 10-10-10 FERTILIZER OR THE EQUIVALENT ON 1000 SQ. FT. PER ACRE (12-16 LBS/1000 SQ. FT.). IF THE SITE WILL PERMIT, APPLY BEFORE LAND PREPARATION AND DISK, RIP, OR CHISEL TO INCORPORATE.

D. SEEDING
1. SELECT A GRASS OR GRASS-LEGUME MIXTURE SUITABLE TO THE AREA AND SEASON OF THE YEAR. 2. APPLY SEED UNIFORMLY BY HAND, CYCLONE SEEDER, DRILL, CULTIPACKER-SEEDER, OR HYDRAULIC SEEDER (SLURRY INCLUDING SEED AND FERTILIZER). DRILL OR CULTIPACKER-SEEDERS SHOULD NORMALLY PLACE SEED ONE-HALF TO ONE INCH DEEP.

E. MULCHING
TEMPORARY VEGETATION CAN, IN MOST CASES, BE ESTABLISHED WITHOUT THE USE F MULCH. MULCH WITHOUT SEEDING SHOULD BE CONSIDERED FOR SHORT TERM PROTECTION. SEE CM - DISTURBED AREA STABILIZATION (WITH MULCHING ONLY).

F. IRRIGATION
IF WATER IS APPLIED, IT MUST BE AT A RATE NOT CAUSING RUNOFF AND EROSION. THOROUGHLY WET THE SOIL TO A DEPTH THAT WILL INSURE GERMINATION OF THE SEED. SUBSEQUENT APPLICATIONS SHOULD BE MADE WHEN NEEDED.

* REVISED 7/01 PER 5TH EDITION OF MANUAL FOR EROSION & SEDIMENT CONTROL IN GEORGIA.

STONE CHECK DAM

CROSS SECTION

PROFILE VIEW

NOTES:

- CHECK DAMS ARE TO BE USED ONLY IN SMALL OPEN CHANNELS (THEY ARE NOT TO BE USED IN LIVE STREAMS).
- THE DRAINAGE AREA FOR STONE CHECK DAMS SHALL NOT EXCEED TWO ACRES.
- THE CENTER OF THE CHECK DAM MUST BE AT LEAST 9 INCHES LOWER THAN THE OUTER EDGES.
- THE DAM HEIGHT SHOULD BE A MAXIMUM OF 2 FEET FROM CENTER TO RIM EDGE.
- THE SIDE SLOPES OF THE CHECK DAM SHALL NOT EXCEED A 2:1 SLOPE.
- GEOTEXTILE SHALL BE USED TO PREVENT THE MITIGATION OF SUBGRADE SOIL PARTICLES INTO THE STONES (REFER TO AASHTO M288-96, SECTION 7.3, TABLE 3).

STONE CHECK DAM

N.T.S.

NOTES:

- ACTUAL LAYOUT DETERMINED IN FIELD.
- THE CONCRETE WASHOUT SIGN SHALL BE INSTALLED WITHIN 30 FT. OF THE TEMPORARY CONCRETE WASHOUT FACILITY.

RIPRAP OUTLET PROTECTION

PIPE OUTLET TO FLAT AREA -- NO WELL DEFINED CHANNEL

NOTES:

- Lo IS THE LENGTH OF THE RIPRAP APRON.
- D = 1.5 TIMES THE MAXIMUM STONE DIAMETER BUT NOT LESS THAN 6".
- IN A WELL-DEFINED CHANNEL, EXTEND THE APRON UP THE CHANNEL BANKS TO AN ELEVATION OF 6" ABOVE THE MAXIMUM TAILWATER DEPTH OR TO THE TOP OF THE BANK (WHICHEVER IS LESS).
- A FILTER BLANKET OR FILTER FABRIC SHOULD BE INSTALLED BETWEEN THE RIPRAP AND THE SOIL FOUNDATION.

PIPE OUTLET TO WELL DEFINED CHANNEL

DIMENSIONS TABLE

STONE TYPE	D (in)	Lo (ft)	3d (ft)	W (ft)
Rip Rap	15	8	3.75	9.25
Type 3	12	6	3	7

CONCRETE WASTE MANAGENT

PLAN

CONCRETE WASHOUT SIGN DETAIL (OR EQUIVALENT)

NOTES:

- ACTUAL LAYOUT DETERMINED IN FIELD.
- THE CONCRETE WASHOUT SIGN SHALL BE INSTALLED WITHIN 30 FT. OF THE TEMPORARY CONCRETE WASHOUT FACILITY.

SEDIMENT BARRIER - SILT FENCE

NOTE: SILT FENCE INSTALLATION & MATERIALS SHALL MEET THE MINIMUM REQUIREMENTS OF SECTION 171 OF THE GA DOT SPECIFICATION (LATEST EDITION)

SECTION A

SECTION A-A

SECTION A-A

NOTE: ALONG ALL STATE WATERS AND OTHER SENSITIVE AREAS, TWO ROWS OF TYPE S SEDIMENT BARRIERS SHALL BE USED. THE TWO ROWS OF TYPE S SHOULD BE PLACED A MINIMUM OF 36 INCHES APART.

TYPICAL INSTALLATION GUIDELINES FOR ROLLED EROSION CONTROL PRODUCTS (RECP)

BLANKET AND MATTING CROSS-SECTIONS

SEQUENTIAL ROLL RUN OUT IN CHANNELS

PICTORIAL VIEW OF TRANSVERSE SLOT

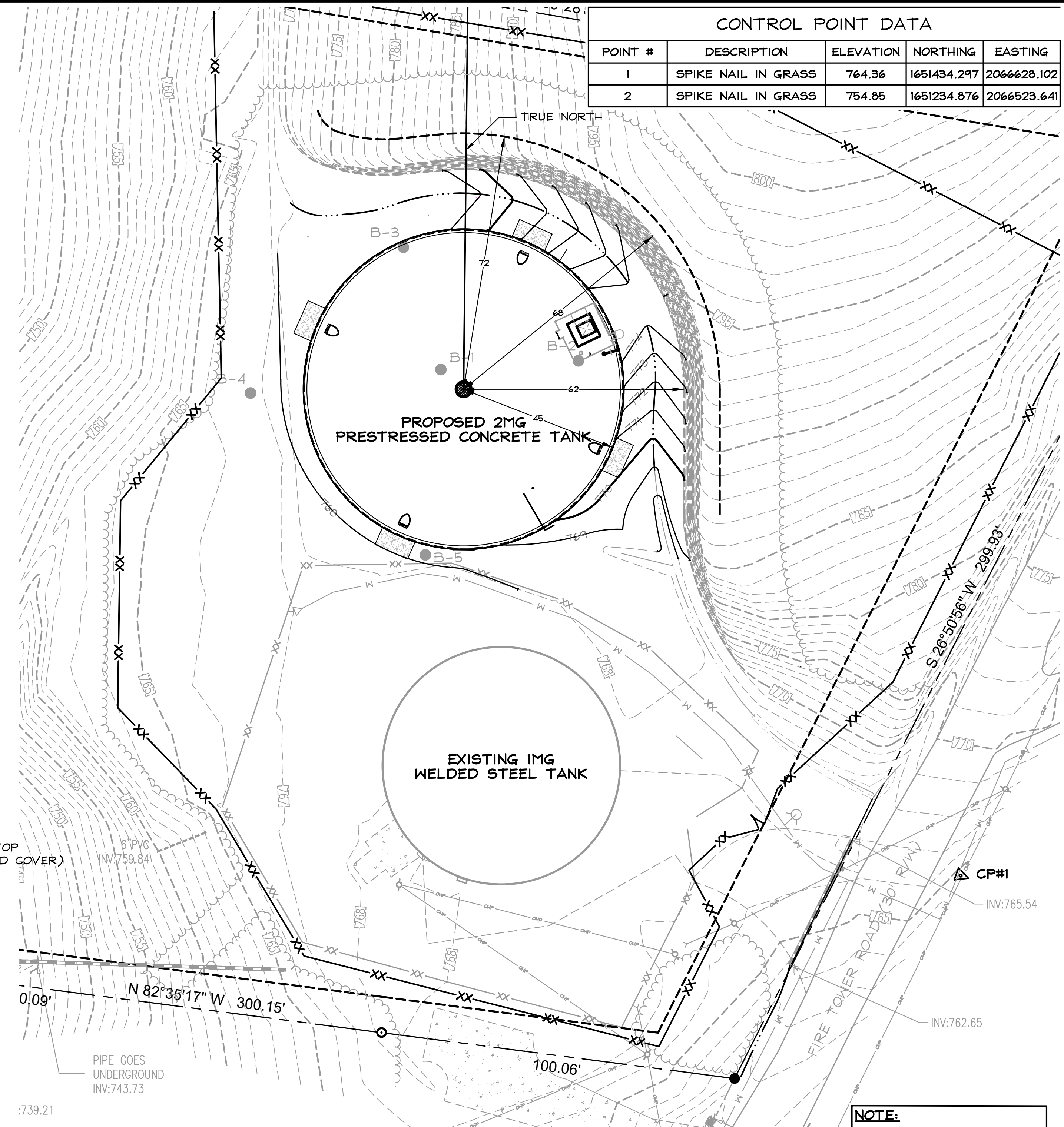
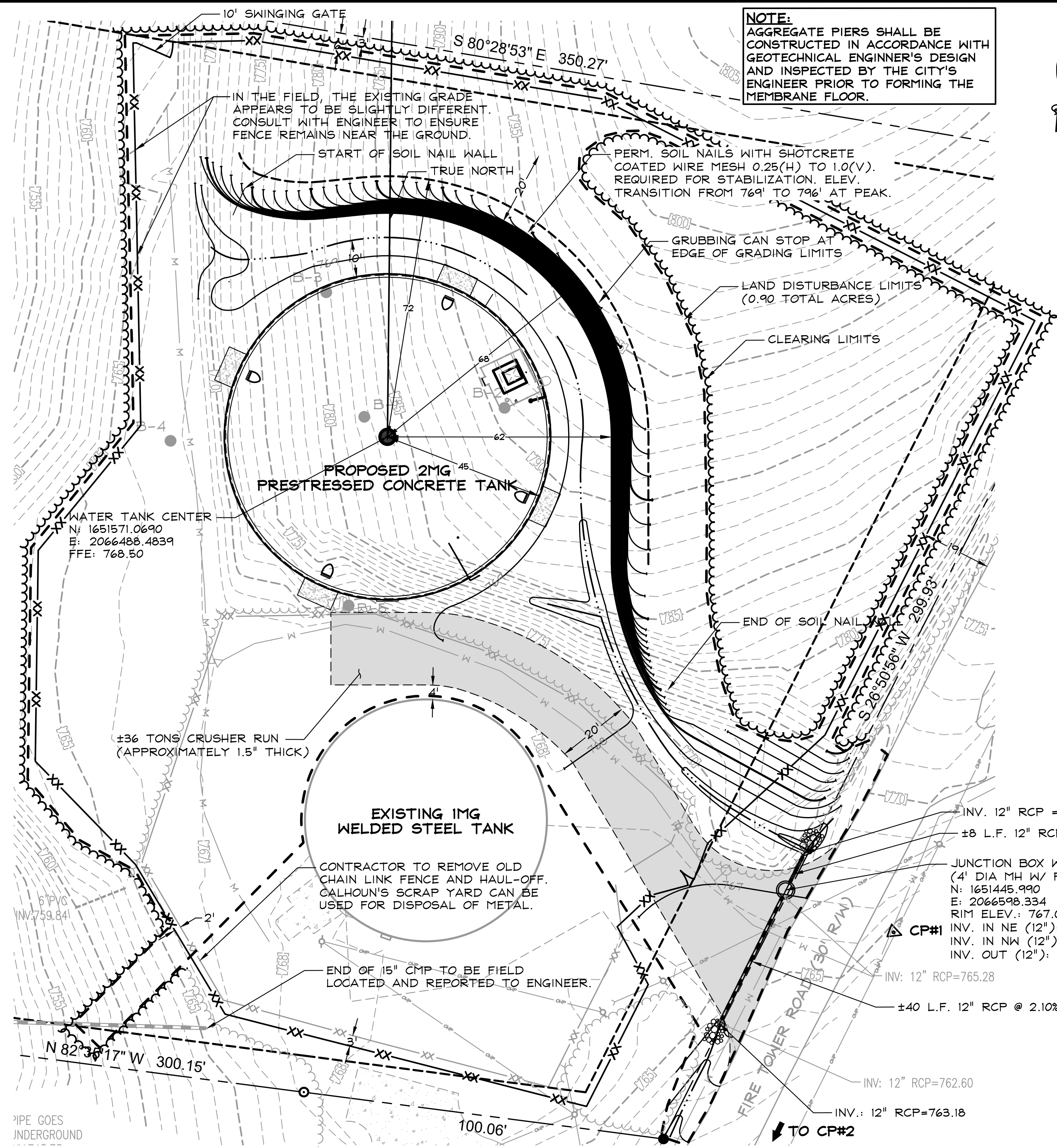
NOTES:

- START AT DOWNSTREAM TERMINAL AND PROGRESS UPSTREAM.
- FIRST ROLL IS CENTERED LONGITUDINALLY IN MID-CHANNEL AND PINNED WITH TEMPORARY STAKES TO MAINTAIN ALIGNMENT.
- SUBSEQUENT ROLLS FOLLOW IN STAGGERED SEQUENCE BEHIND THE FIRST ROLL. USE THE CENTER ROLL FOR ALIGNMENT TO THE CHANNEL CENTER.
- WORK OUTWARDS FROM THE CHANNEL CENTER TO THE EDGE.
- USE 3" OVERLAPS AND STAKE AT 5' INTERVALS ALONG THE SEAMS.
- USE 3" OVERLAPS AND SHINGLE DOWNSTREAM TO CONNECT THE LINING AT THE ROLL ENDS.

SOIL EROSION AND SEDIMENT CONTROL DETAILS



TO BE PLACED ON ALL DISTURBED AREAS TO MATCH EXISTING CONDITIONS



CONTROL POINT DATA

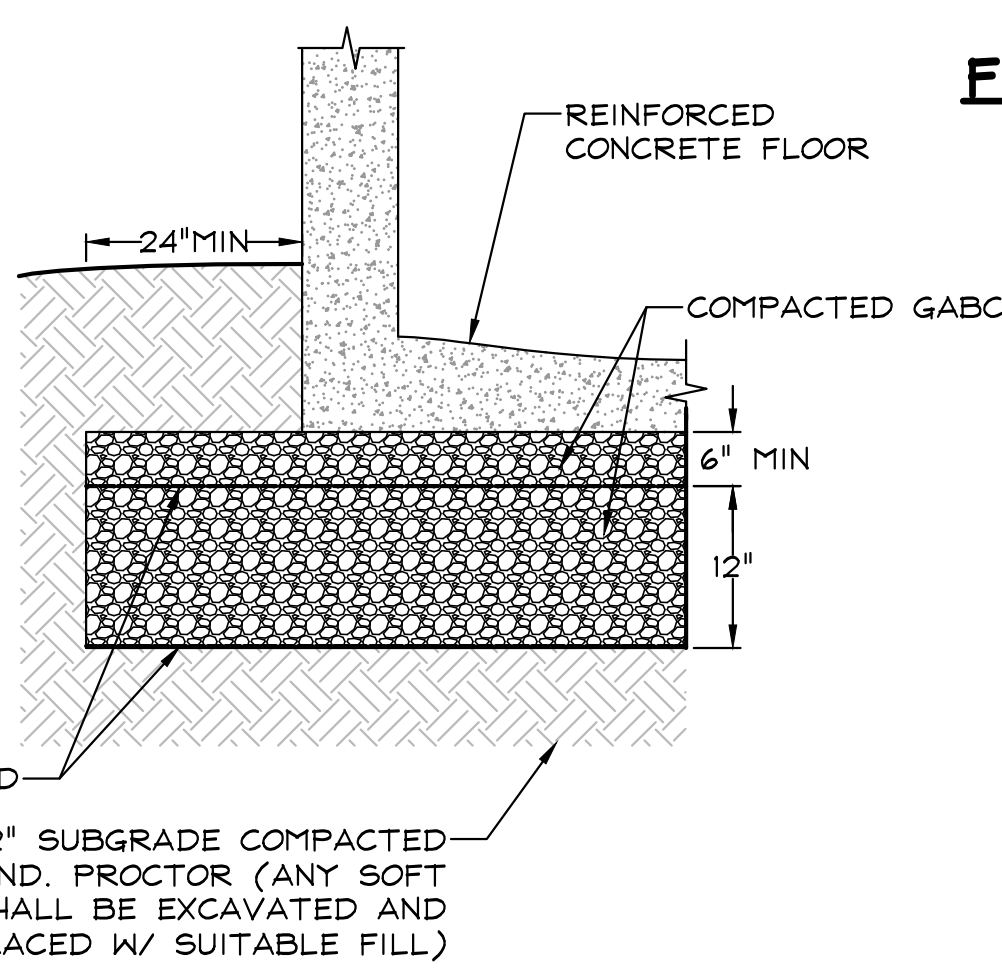
POINT #	DESCRIPTION	ELEVATION	NORTHING	EASTING
1	SPIKE NAIL IN GRASS	764.36	1651434.297	2066628.102
2	SPIKE NAIL IN GRASS	754.85	1651234.876	2066523.641

REVISIONS:

NO.	DESCRIPTION	DATE
A	INITIAL RELEASE	5/1/28

GRADING & DRAINAGE NOTES

- ALL PERIMETER BMP'S SHALL BE INSTALLED PRIOR TO BEGINNING ANY CONSTRUCTION ACTIVITIES.
- TO PROVIDE UNIFORM FOUNDATION SUPPORT CONDITIONS, WE RECOMMEND OVER EXCAVATION OF THE TANK FOUNDATION AREA AND PLACEMENT OF A MINIMUM 18-INCH THICK LAYER OF COMPACTED CRUSHED STONE OR GAB WITH 2-LAYERS OF GEOGRID BENEATH THE FOUNDATION GRADE SLAB. ANY FILL SOILS REMAINING IN THE TANK AREA AFTER THE INITIAL GRADING SHOULD BE UNDERCUT TO RESIDUAL SOIL OR PARTIALLY WEATHERED ROCK AND REPLACED WITH COMPACTED CRUSHED STONE.
- AFTER EXCAVATION TO THE TANK FOUNDATION SUBGRADE LEVEL, THE FOUNDATION AREA SHALL BE INSPECTED BY A QUALIFIED GEOTECHNICAL ENGINEER TO CONFIRM THAT CONDITIONS ARE SIMILAR TO THOSE ENCOUNTERED IN THE BORINGS AND THE BEARING SOILS ARE CAPABLE OF SUPPORTING THE DESIGN CONTACT PRESSURE. THE FOUNDATION BEARING AREA SHOULD BE LEVEL AND FREE OF SOFT OR LOOSE SOIL, MUD, DISTURBED MATERIALS, OR OTHER DELETERIOUS MATERIALS IMMEDIATELY PRIOR TO PLACEMENT OF CONCRETE. IN ADDITION, FOUNDATION CONCRETE SHOULD NOT BE PLACED ON A FROZEN SUBGRADE. ANY FOUNDATION-BEARING SURFACE THAT HAS BEEN DISTURBED DUE TO CONSTRUCTION ACTIVITIES OR EXPOSURE TO PRECIPITATION OR RUN-OFF MUST BE REPAIRED. EXPOSED TO THE ENVIRONMENT MAY WEAKEN THE SOILS AT THE FOUNDATION BEARING LEVEL IF EXCAVATIONS REMAIN OPEN FOR LONG PERIODS OF TIME. THEREFORE, THE TANK EXCAVATION SHOULD BE COMPLETED DURING A SPAN OF FAVORABLE WEATHER AND THE FOUNDATION CONSTRUCTED AS SOON AS POSSIBLE. THEREAFTER TO MINIMIZE ANY POTENTIAL DAMAGE ALSO, WATER SHOULD NOT BE ALLOWED TO POND ON OR INFILTRATE THE BEARING SURFACE. SEE GEOTECHNICAL REPORT FOR FURTHER INSTRUCTIONS.
- THE 15' EXCAVATION LIMITS IS THE MINIMUM EXCAVATION REQUIRED BY THE TANK MANUFACTURER TO CONSTRUCT THE TANK. THIS AREA MUST BE EXCAVATED AND CLEARED OF ANY OBSTRUCTION DURING CONSTRUCTION OF THE TANK. IT MAY BE BACKFILLED AND COMPACTED AFTER TANK CONSTRUCTION IS COMPLETE. CONTRACTOR SHALL FURNISH & INSTALL ALL TEMPORARY SHEETING, SHORING, SHEET PILING, BRACING OR OTHER SUPPORTS NECESSARY FOR EXCAVATION SUPPORT IN COMPLIANCE WITH MEETING OSHA REGULATIONS.
- AFTER TREES HAVE BEEN REMOVED, THE CONTRACTOR SHALL TAKE PRECAUTIONARY STEPS TO SECURE THE PREMISES. THE FENCING MUST BE IN PLACE PRIOR TO BEGINNING OF EXCAVATION TO ENSURE THAT NON-AUTHORIZED PERSONNEL AND THE GENERAL PUBLIC CANNOT ACCESS THE SITE. THE FENCING SHALL ENCOMPASS THE SITE AS DEPICTED AND BE EQUIPPED WITH A LOCKABLE GATE AT THE CONSTRUCTION ENTRANCE. THE CONTRACTOR IS RESPONSIBLE FOR REMOVING THE OLD CHAIN LINK FENCE ONCE THE NEW CHAIN-LINK FENCE HAS BEEN INSTALLED.
- CONTRACTOR SHALL MAKE ARRANGEMENTS FOR OFF-SITE HAULING AND DISPOSAL OF EXCESSIVE SOIL. CONTACT CITY FOR FIRST RIGHT OF REFUSAL.



FINAL GRADING PLAN

TEMP. EARTHWORK TOTALS

VOLUME CUT	VOLUME FILL	NET CUT
6,677 CY	18 CY	6,659 CY

PERM. EARTHWORK TOTALS

VOLUME CUT	VOLUME FILL	NET FILL
0 CY	370 CY	370 CY

NOTE: VALUES DO NOT INCLUDE OVERCUTS AND SUITABLE FILL NECESSARY TO SUPPORT TANK LOADING. THOSE VOLUMES MUST BE QUANTIFIED DURING GRADING OPERATIONS.

SPECIAL FOUNDATION DETAIL

GRADING AND STORM DRAINAGE PLAN

NEW FIRE TOWER ROAD (BROGDON)
2MG GROUND STORAGE TANK
FOR THE
CITY OF CALHOUN
GORDON COUNTY, GEORGIA

CITY OF CALHOUN
UTILITIES ENGINEERING
CALHOUN, GEORGIA 30701
PHONE: (706) 629-4701



THIS LINE IS ONE INCH LONG WHEN DRAWING IS PLOTTED FULL SCALE

DSGN: K.T.M DRWN: ATL

DRG. NAME: FIRE TOWER MASTER

PROJ. NO.: 358

DATE: MAY 2026

SHEET NO.: 4 OF 10 SHEETS

LEVEL II CERTIFIED DESIGN PROFESSIONAL CERT. # 62026 EXPIRES: 8/13/2028

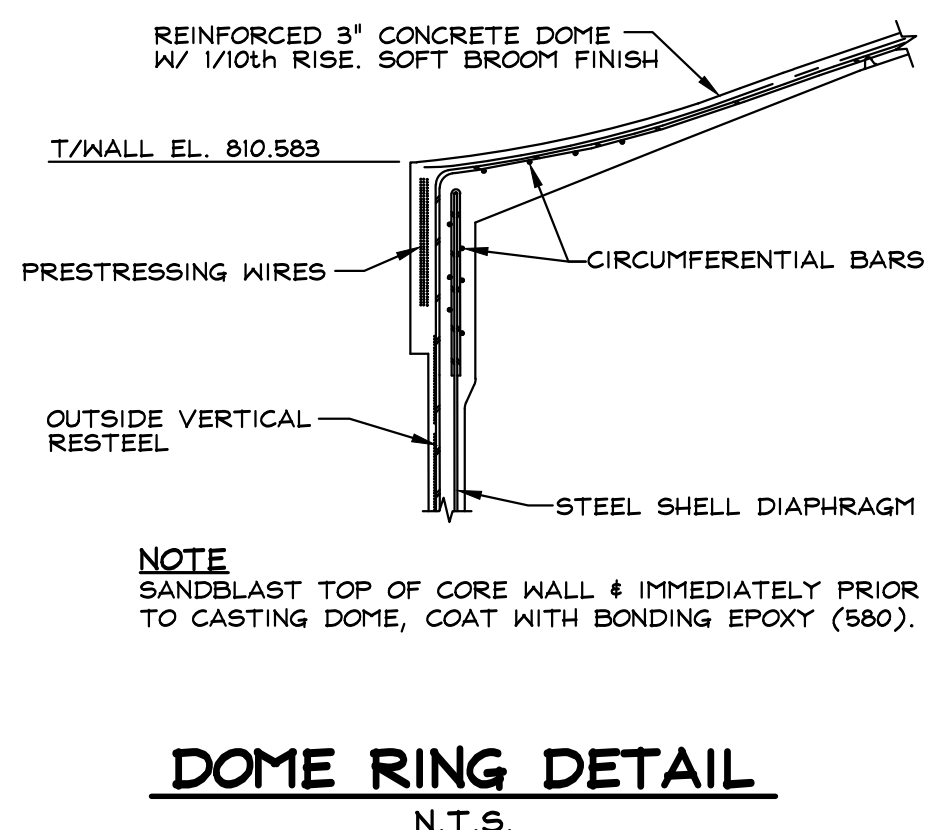
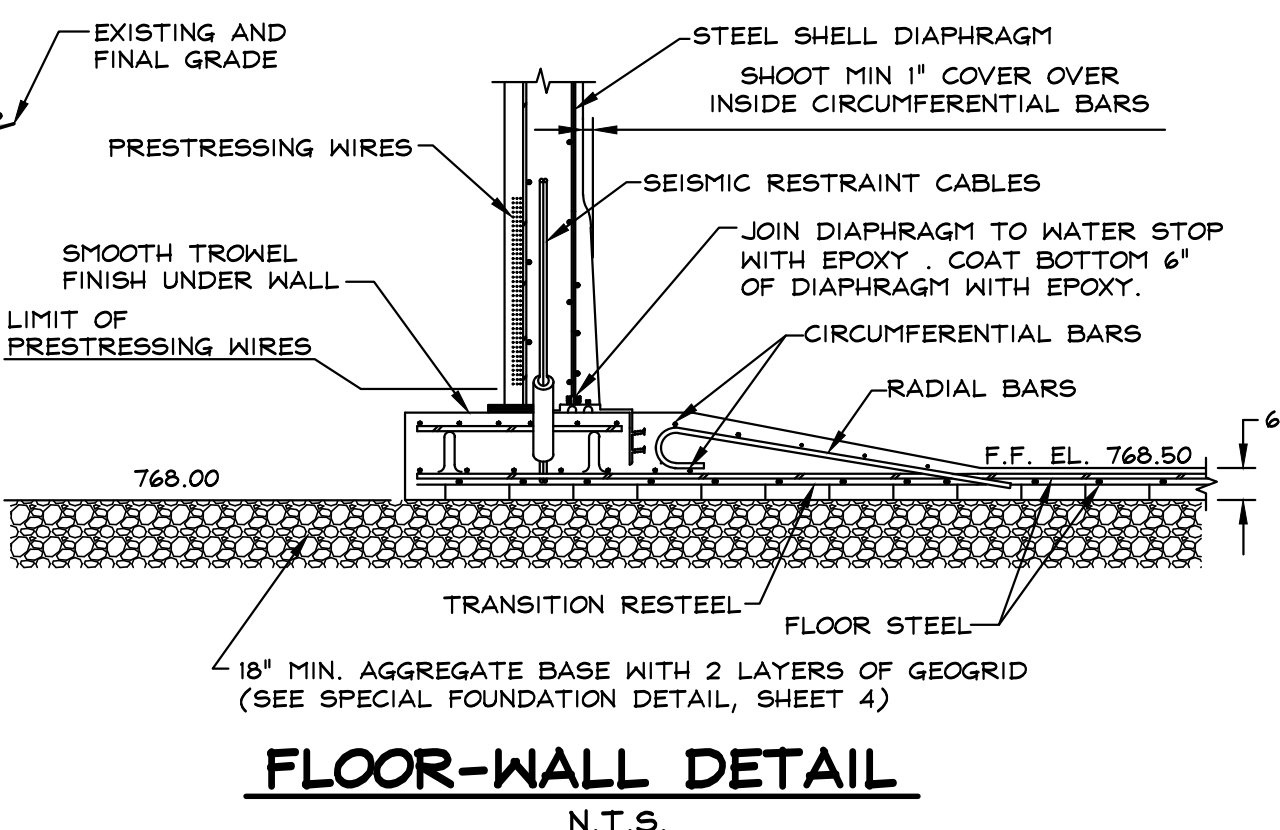
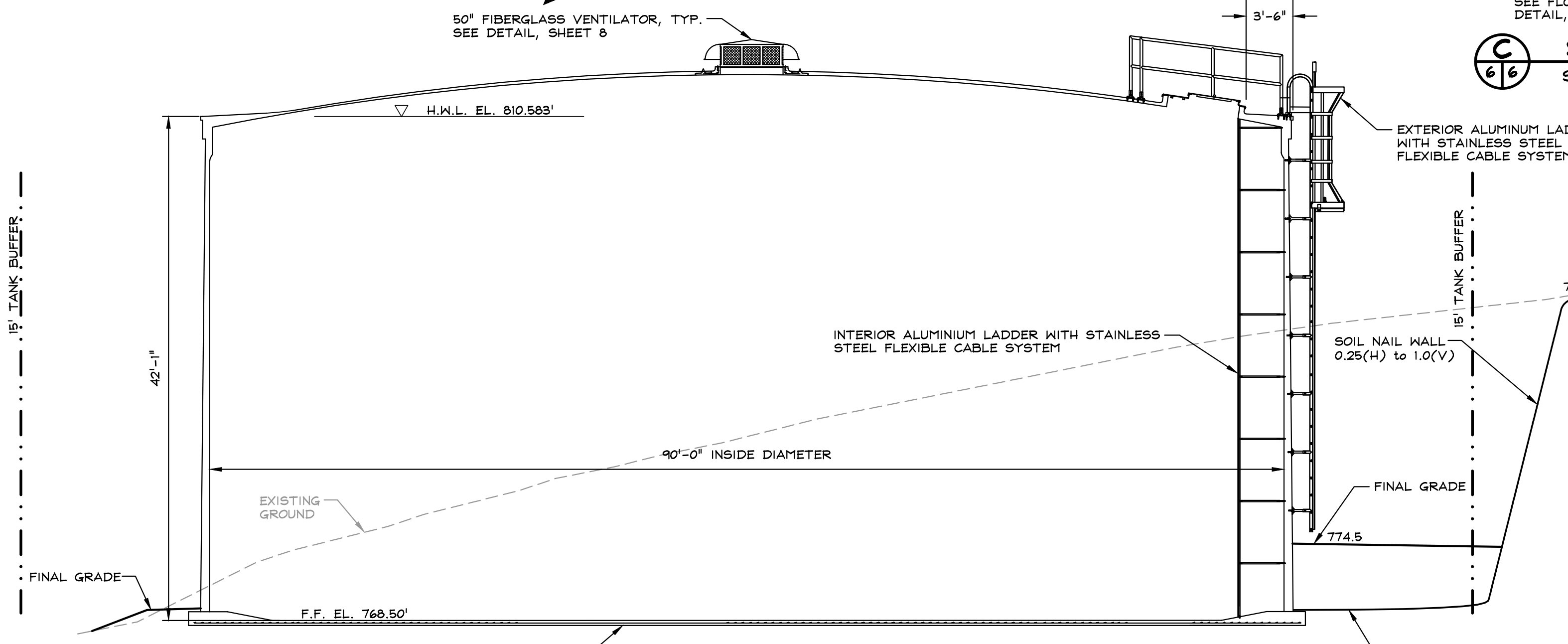
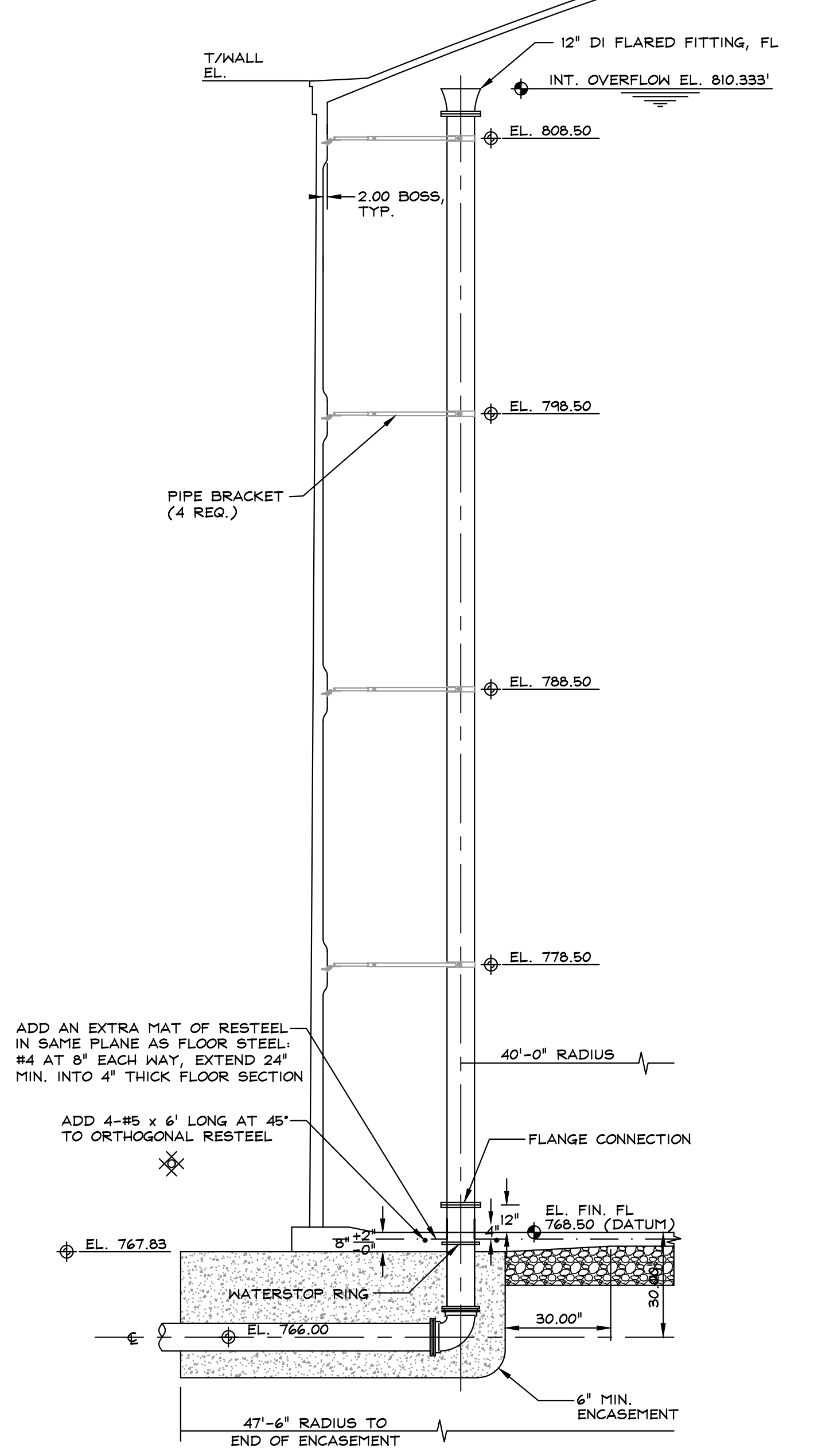
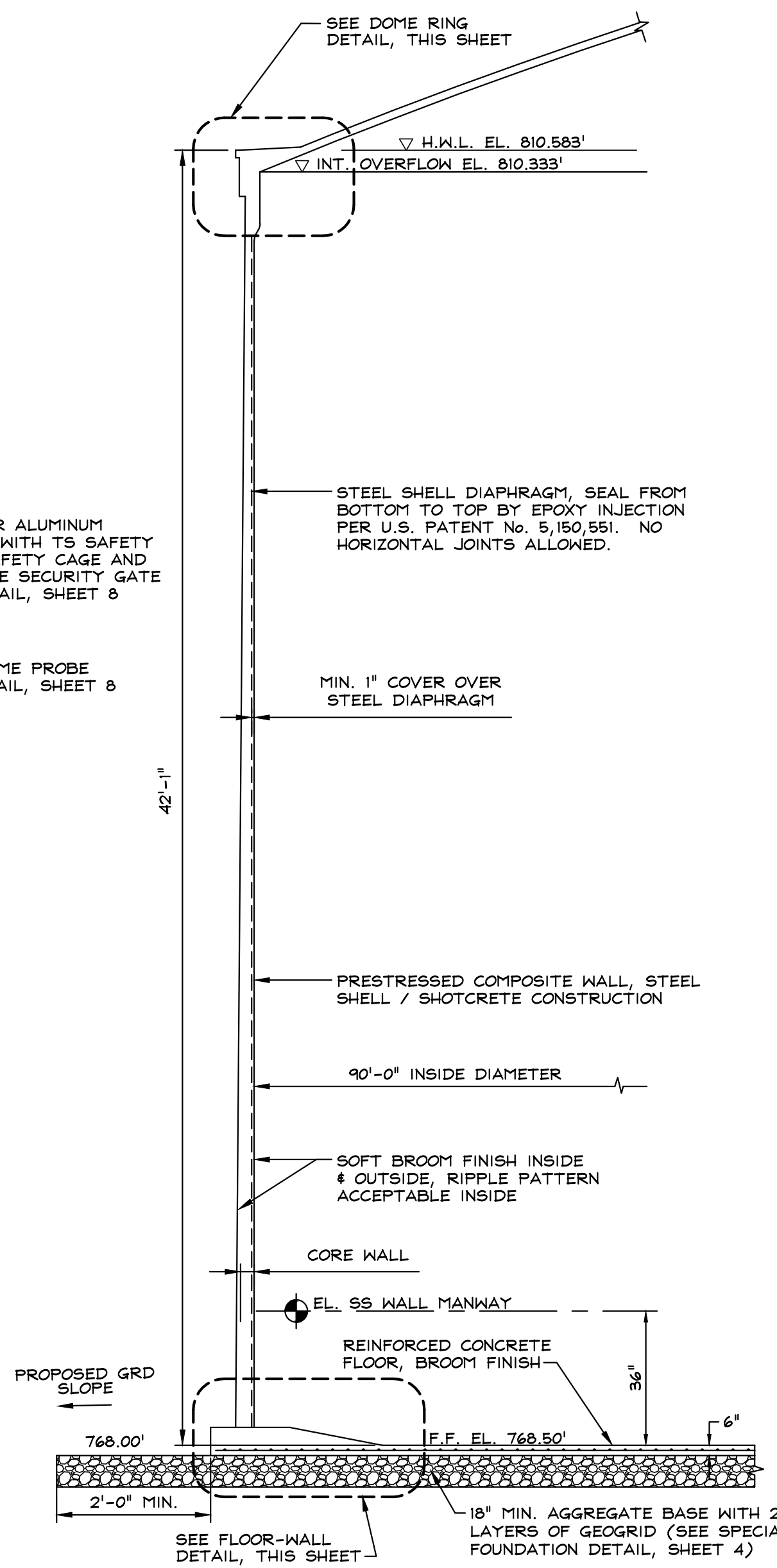
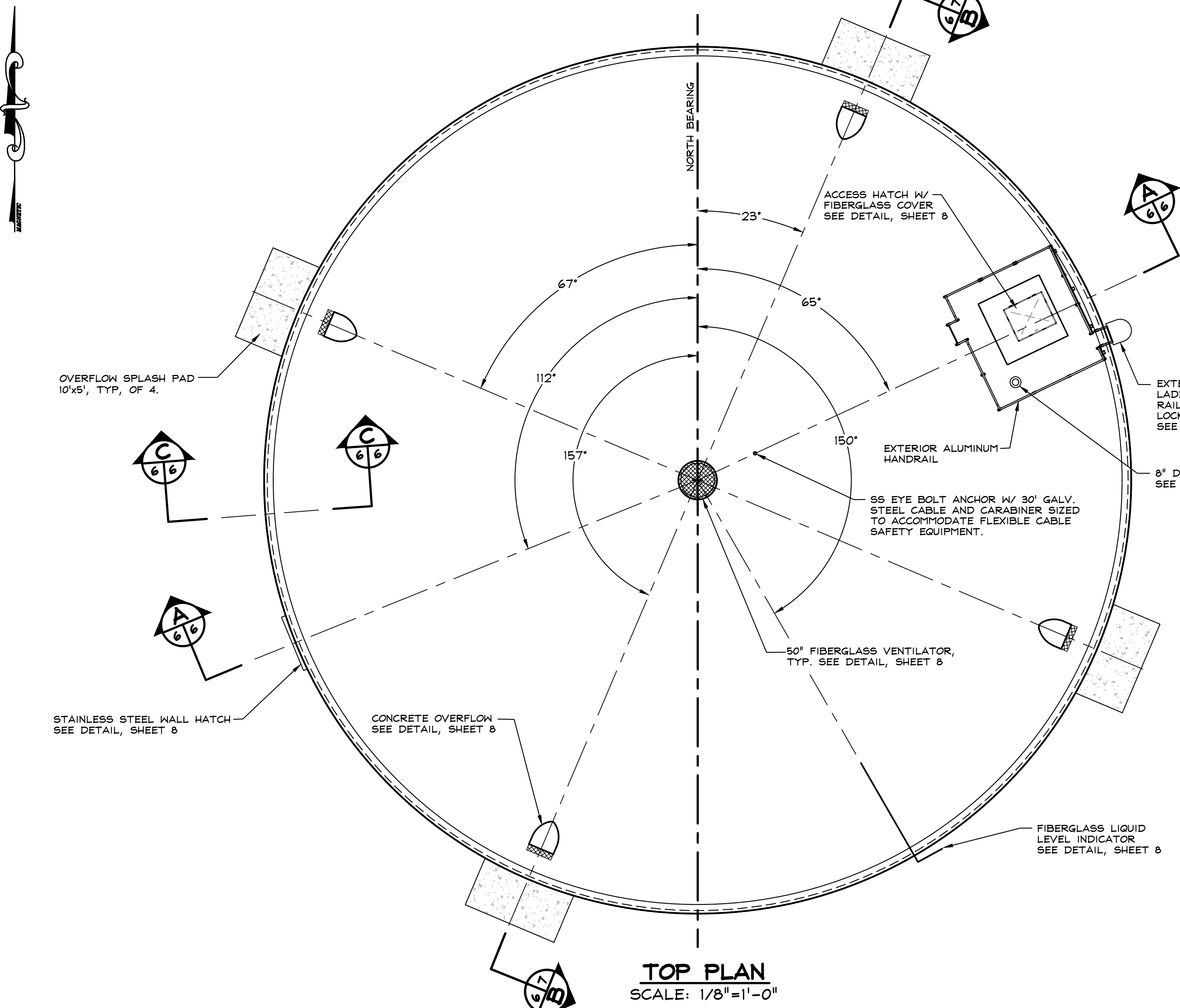
REVISIONS:	
A	INITIAL RELEASE 5/1/26

**NEW FIRE TOWER ROAD (BROGDON)
2MG GROUND STORAGE TANK
FOR THE
CITY OF CALHOUN
GORDON COUNTY, GEORGIA**

**CITY OF CALHOUN
UTILITIES ENGINEERING
CALHOUN, GEORGIA 30701
PHONE: (706) 629-4701**



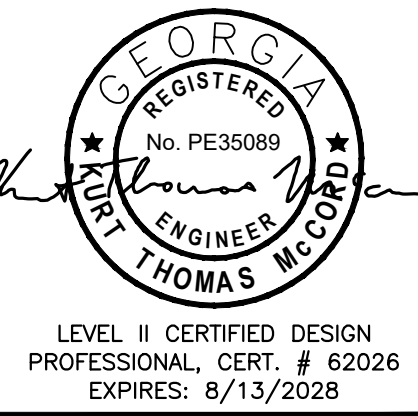
THIS LINE IS ONE INCH LONG WHEN DRAWING IS PLOTTED FULL SCALE	
DSGN: K.T.M	DRWN: ATL
DWG. NAME: FIRE TOWER MASTER	
PROJ. NO.: 358	SHEET NO.: 6
DATE: MAY 2026	OF 10 SHEETS



Del	TO BE PLACED ON ALL DISTURBED AREAS TO MATCH EXISTING CONDITIONS
Dm	
Ds	
Du	

- NOTES:
- SHOTCRETE SHALL BE APPLIED BY OR UNDER DIRECT SUPERVISION OF NOZZLEMEN CERTIFIED BY THE AMERICAN CONCRETE INSTITUTE AS OUTLINED IN ACI CERTIFICATION PUBLICATION CP-60.
 - TENSION IN PRESTRESSING WIRE SHALL BE MEASURED BY AN ELECTRONIC DIRECT-READING STRESSOMETER ACCURATE TO WITHIN 2%.

GROUND STORAGE AND SECTION PLAN



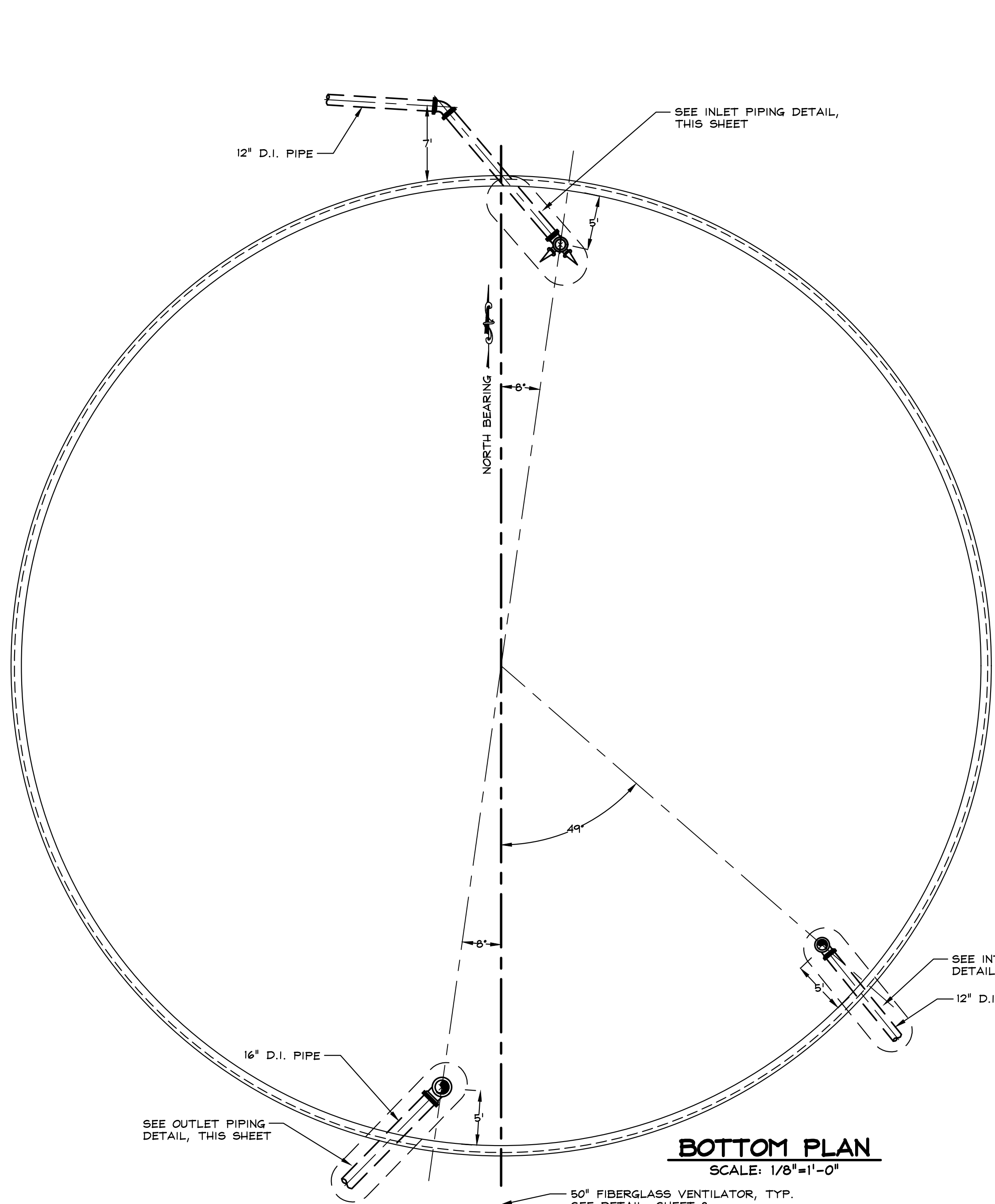
REVISIONS:	
A	INITIAL RELEASE 5/1/28

**NEW FIRE TOWER ROAD (BROGDON)
2MG GROUND STORAGE TANK
FOR THE
CITY OF CALHOUN
GORDON COUNTY, GEORGIA**

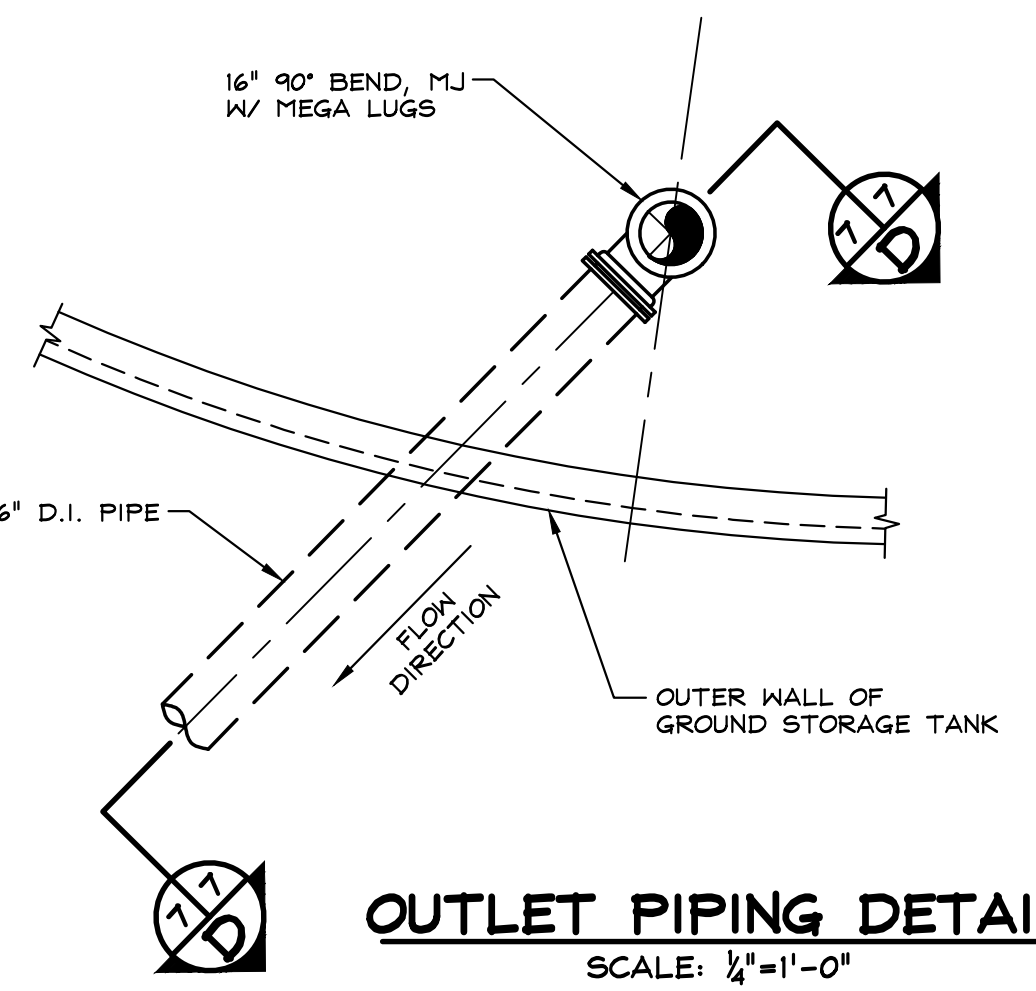
**CITY OF CALHOUN
UTILITIES ENGINEERING
CALHOUN, GEORGIA 30701
PHONE: (706) 629-4701**



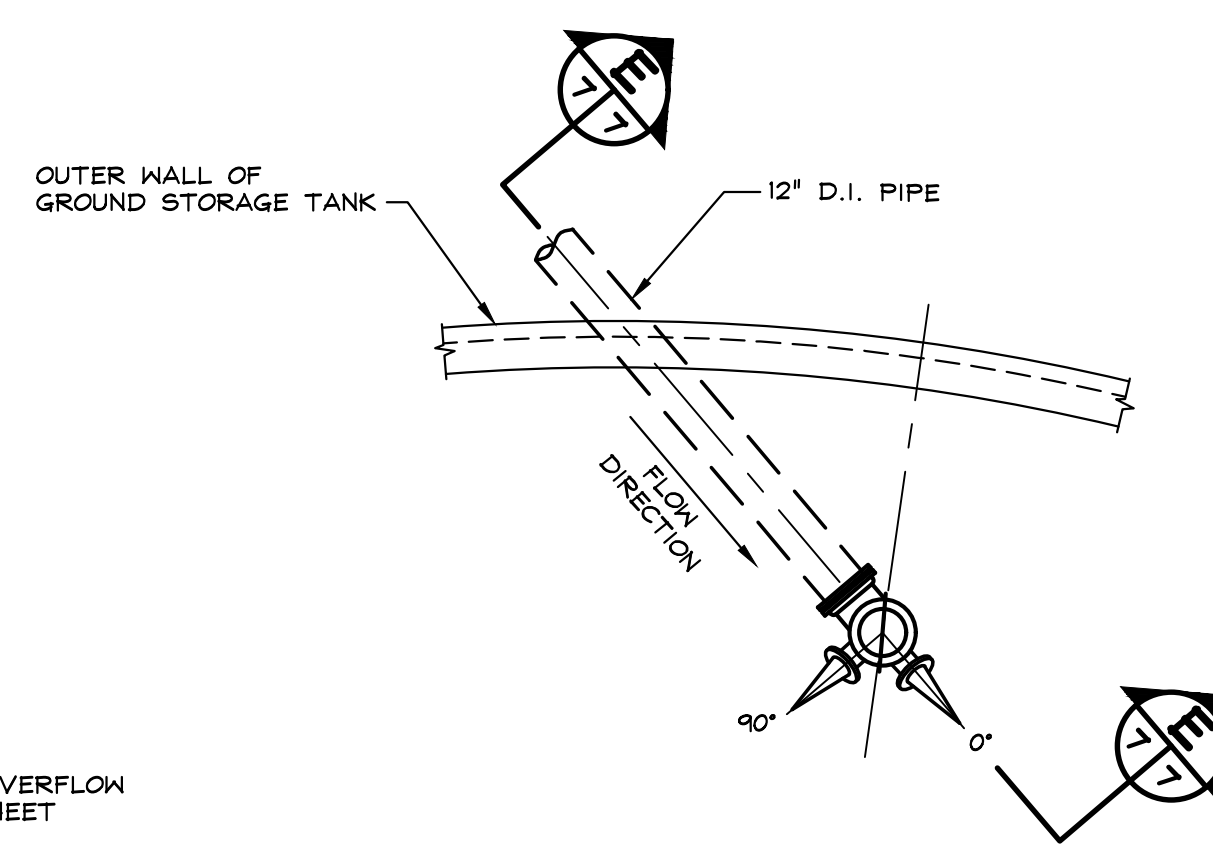
THIS LINE IS ONE INCH LONG WHEN DRAWING IS PLOTTED FULL SCALE	
DSGN: KTM	DRWN: ATL
DWG. NAME: FIRE TOWER MASTER	
PROJ. NO.: 358	SHEET NO.: 7
DATE: MAY 2026	OF 10 SHEETS



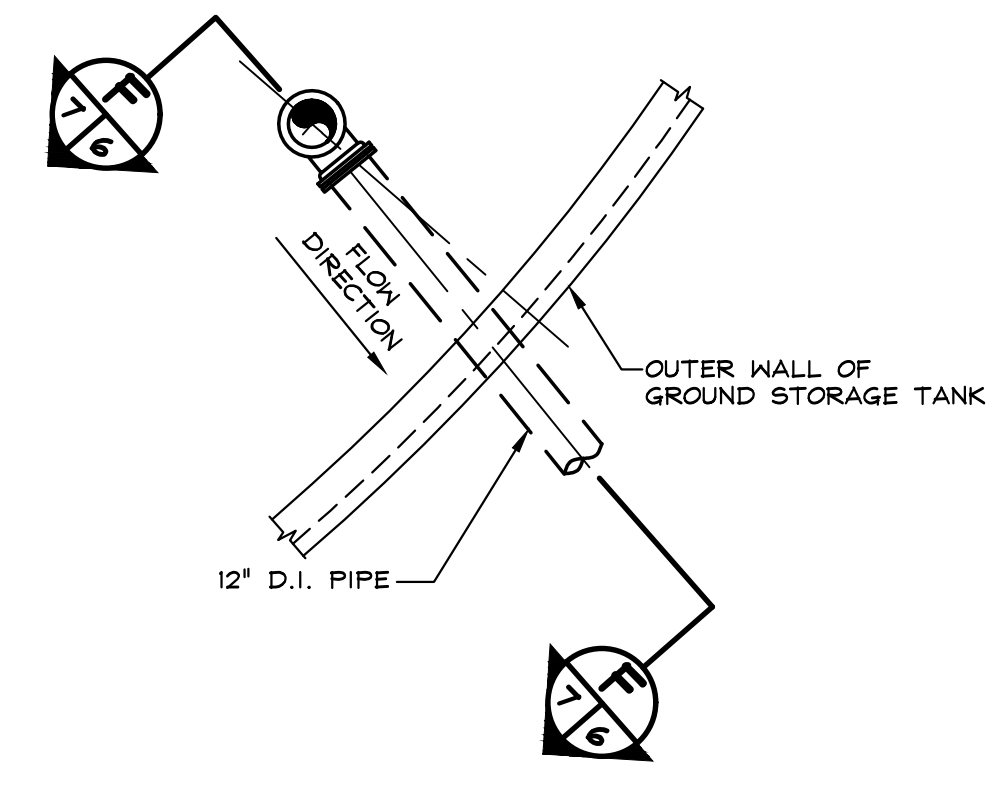
BOTTOM PLAN
SCALE: 1/8"=1'-0"



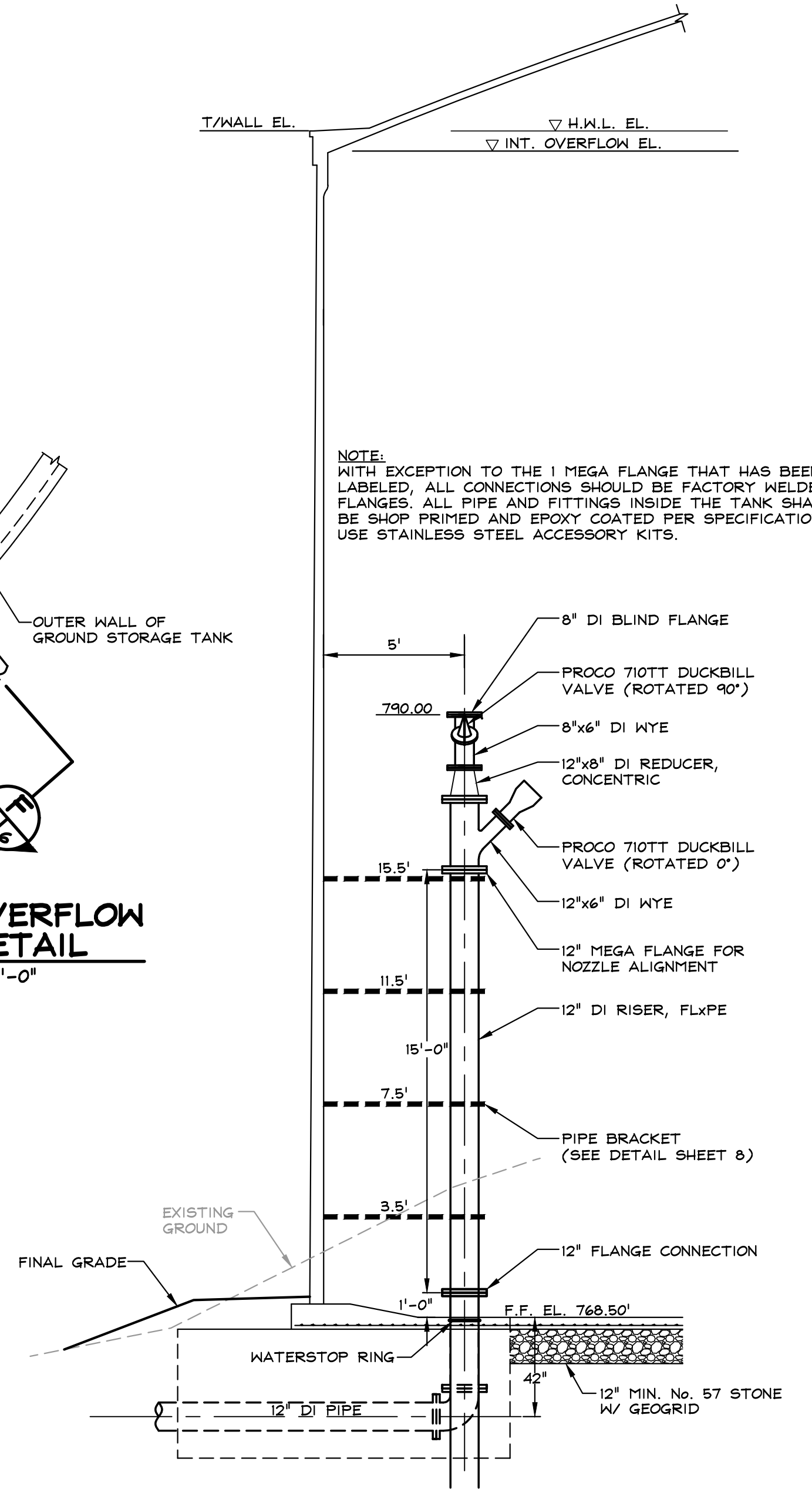
OUTLET PIPING DETAIL
SCALE: 1/4"=1'-0"



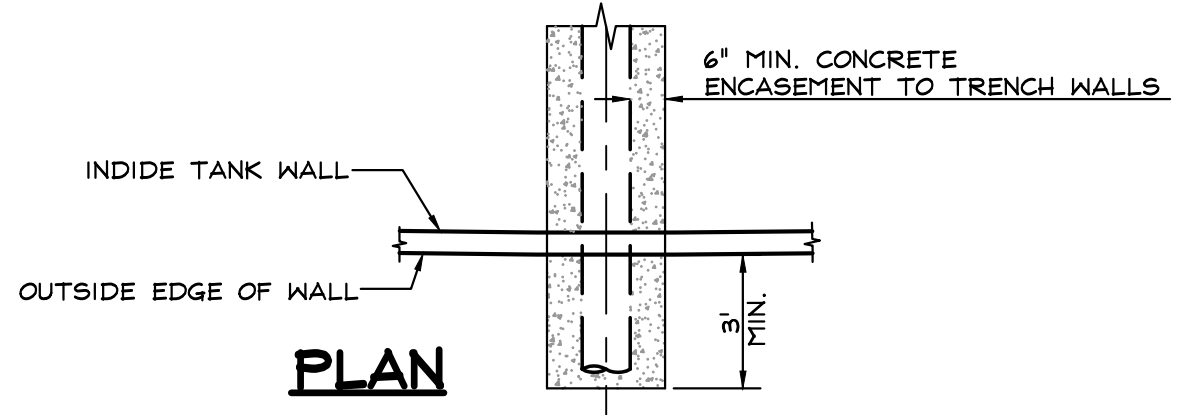
INLET PIPING DETAIL
SCALE: 1/4"=1'-0"



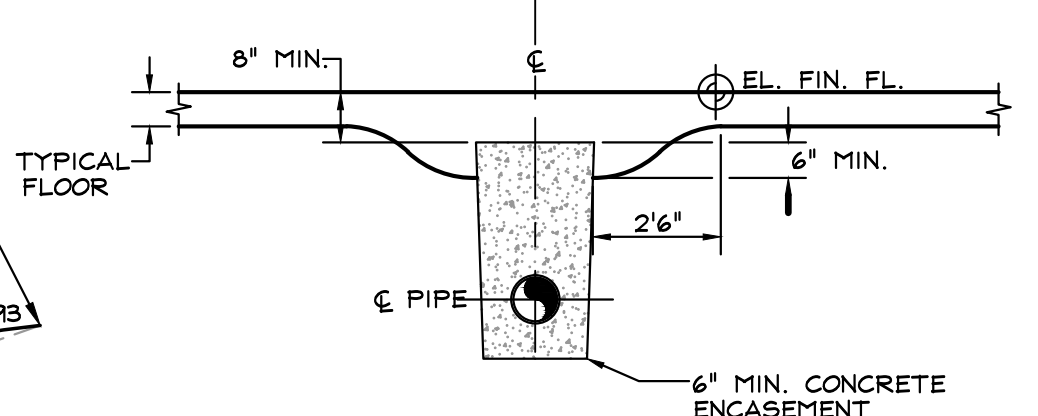
INTERNAL OVERFLOW PIPING DETAIL
SCALE: 1/4"=1'-0"



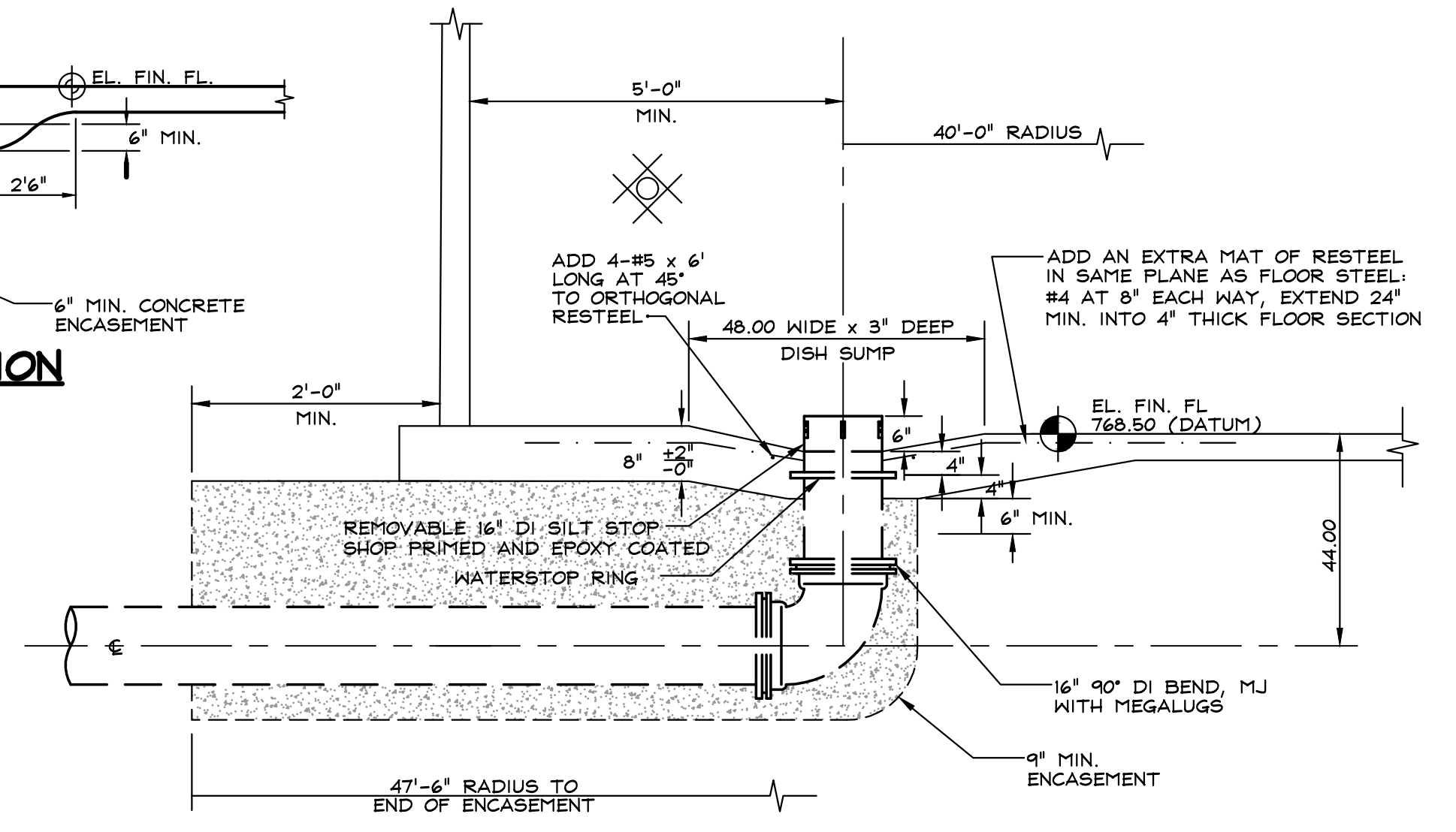
E SECTION
SCALE: 1/4"=1'-0"



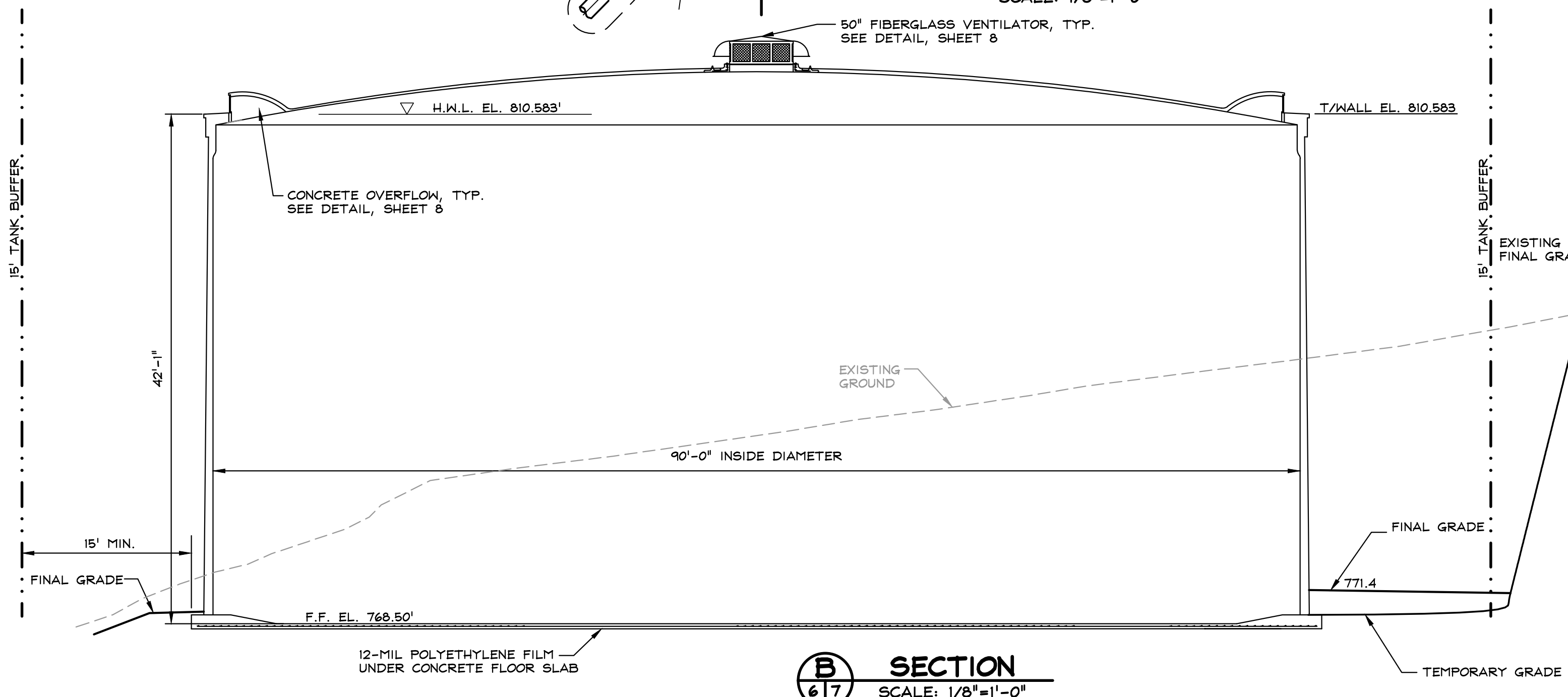
PLAN



ELEVATION



D SECTION
N.T.S.



B SECTION
SCALE: 1/8"=1'-0"

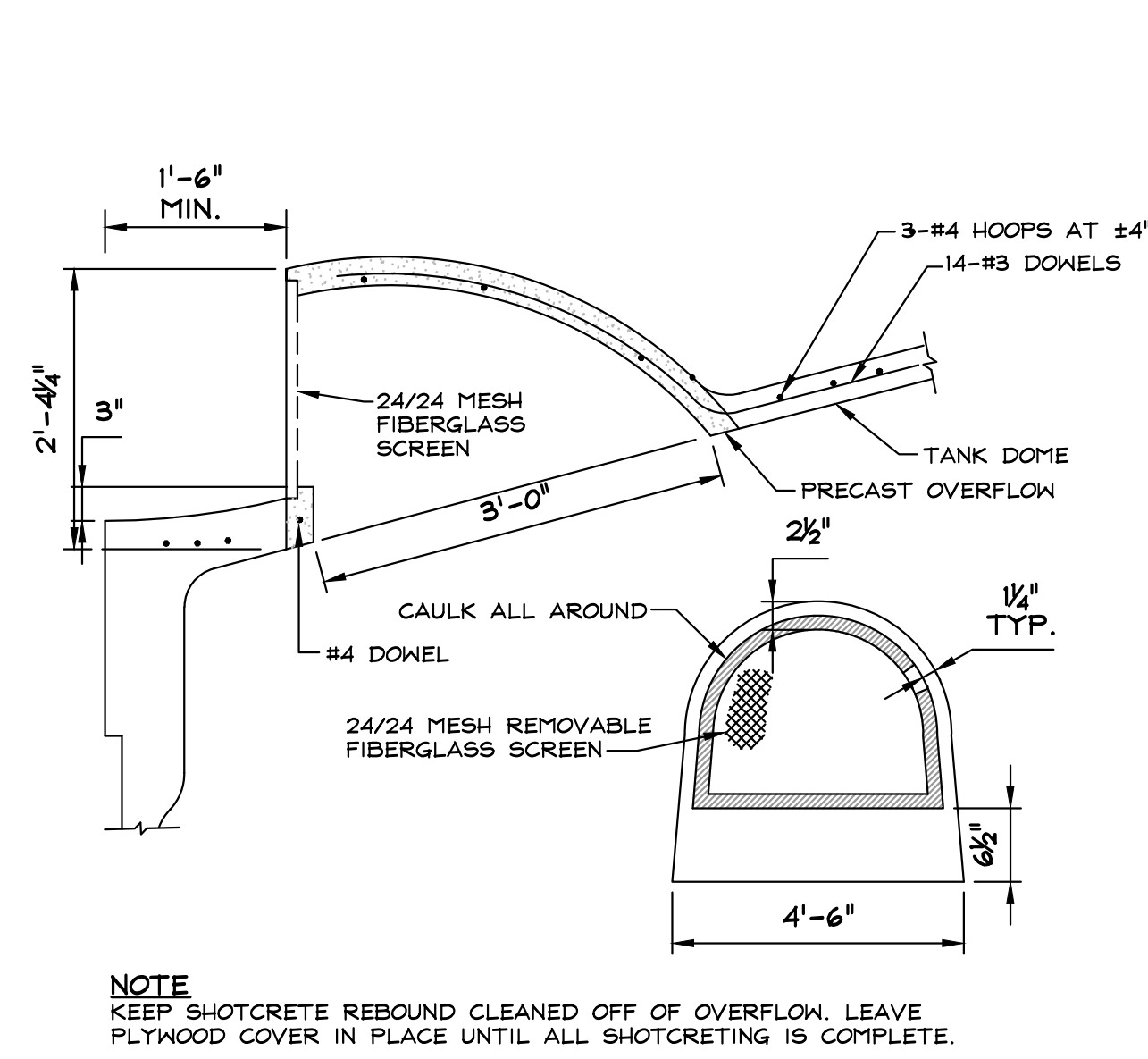
GEORGIA811
Contact 811 before you dig.

TO BE PLACED ON ALL DISTURBED AREAS TO MATCH EXISTING CONDITIONS

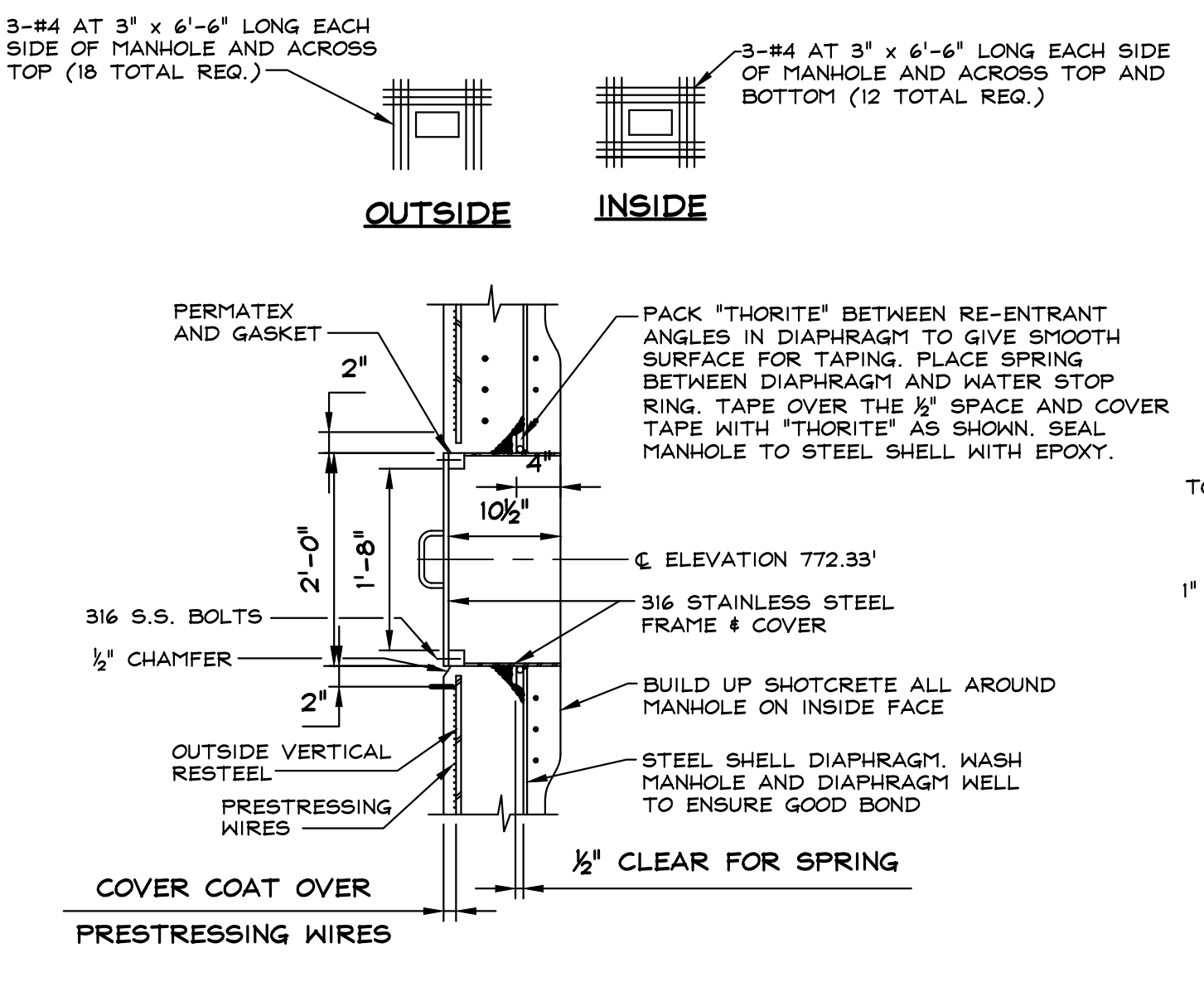
GROUND STORAGE AND SECTION PLAN

LEVEL II CERTIFIED DESIGN
PROFESSIONAL CERT. # 62026
EXPIRES: 8/13/2028

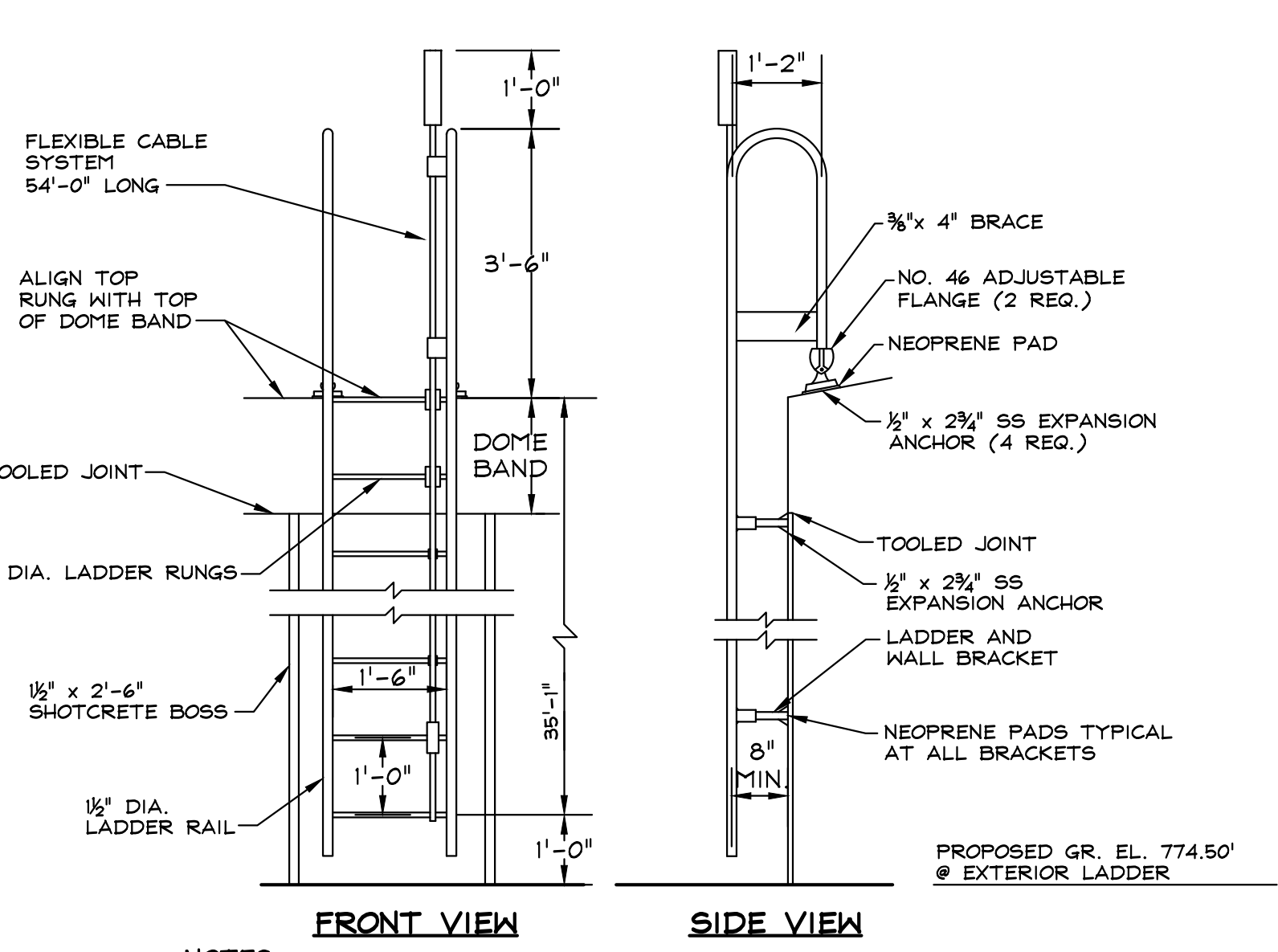
REVISIONS:	
A	INITIAL RELEASE 5/1/28



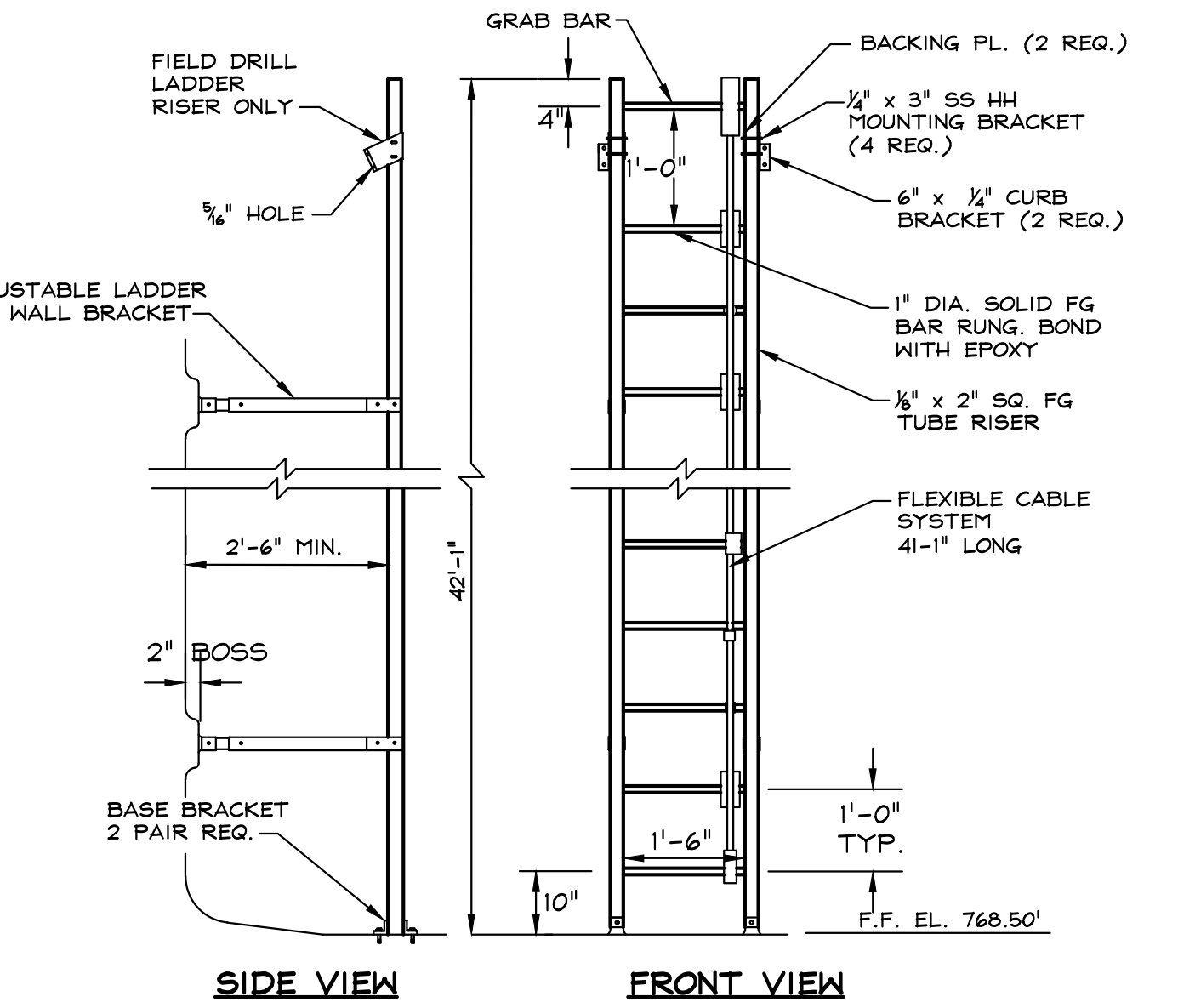
PRECAST CONCRETE OVERFLOW DETAIL
N.T.S.



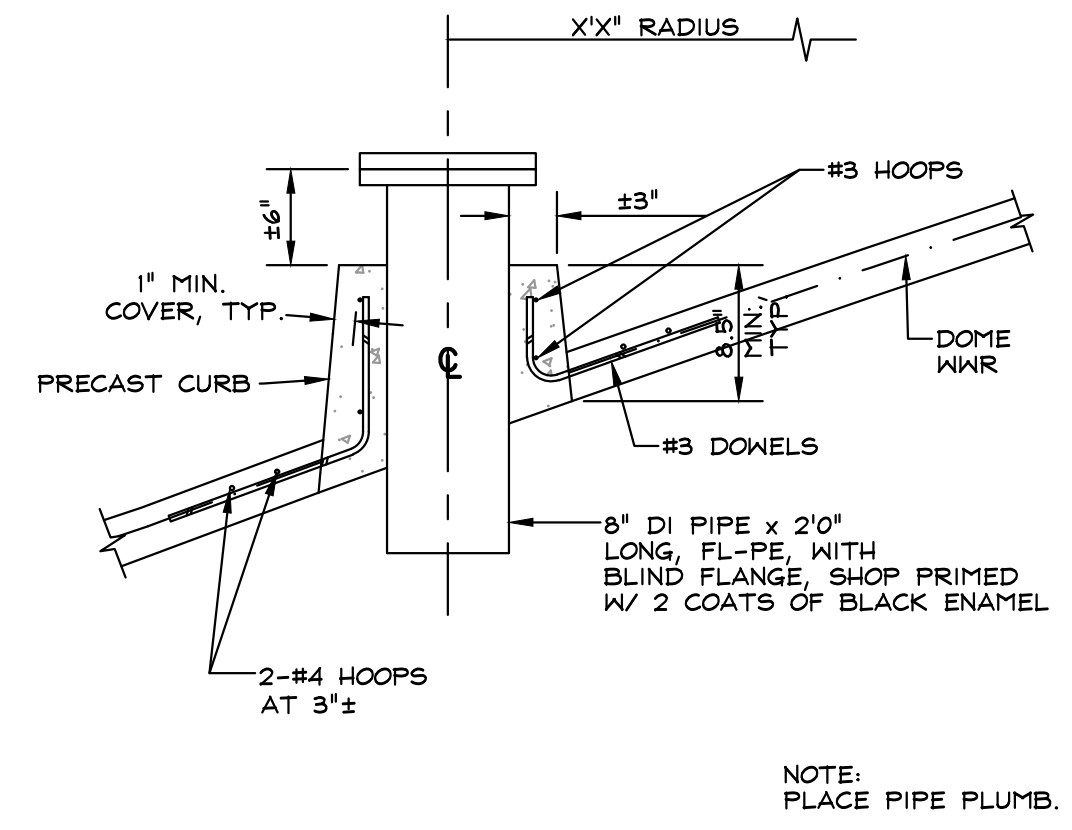
STAINLESS STEEL WALL MANWAY
N.T.S.



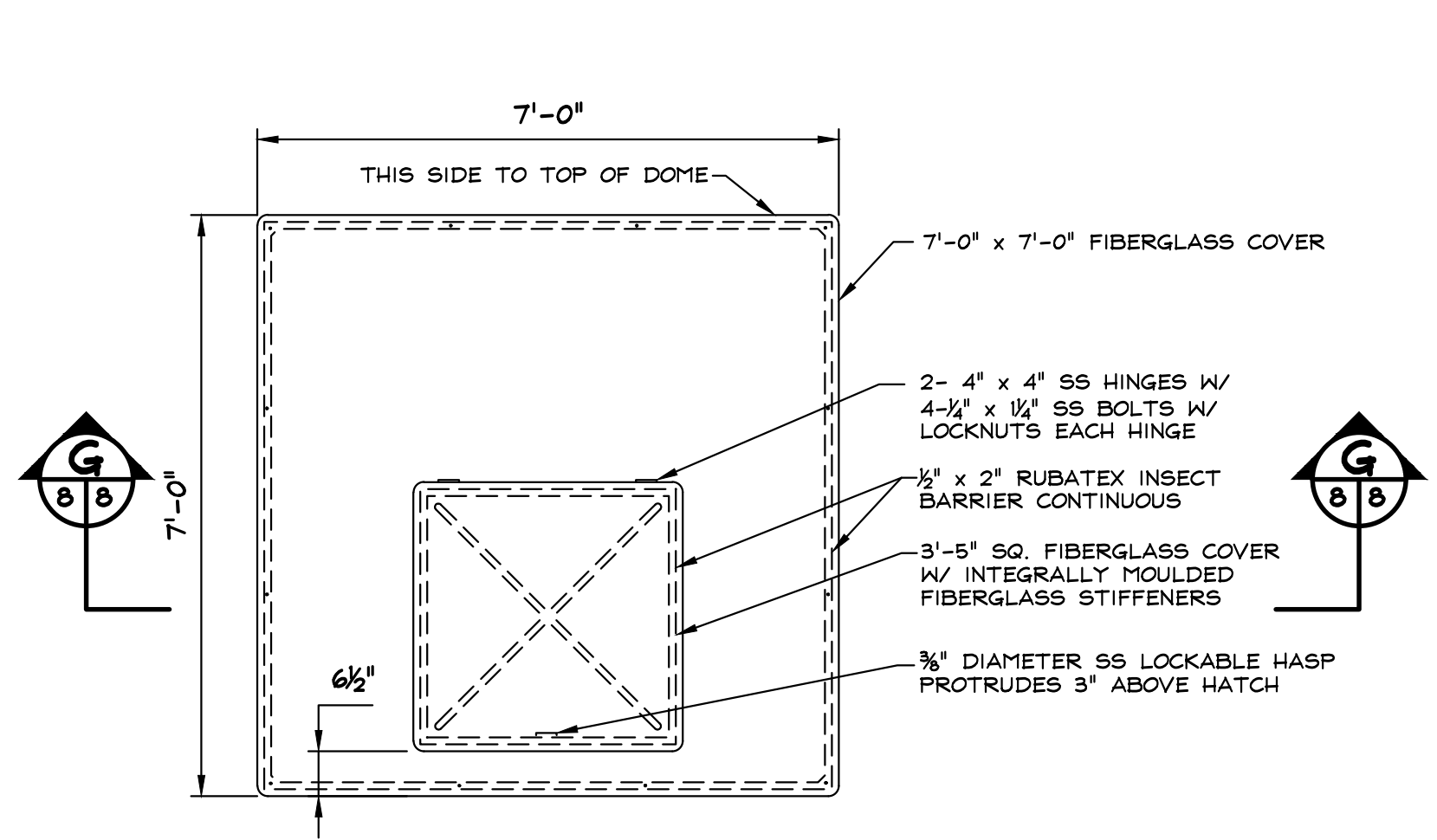
EXTERIOR ALUMINUM LADDER WITH FLEXIBLE CABLE SYSTEM
N.T.S.



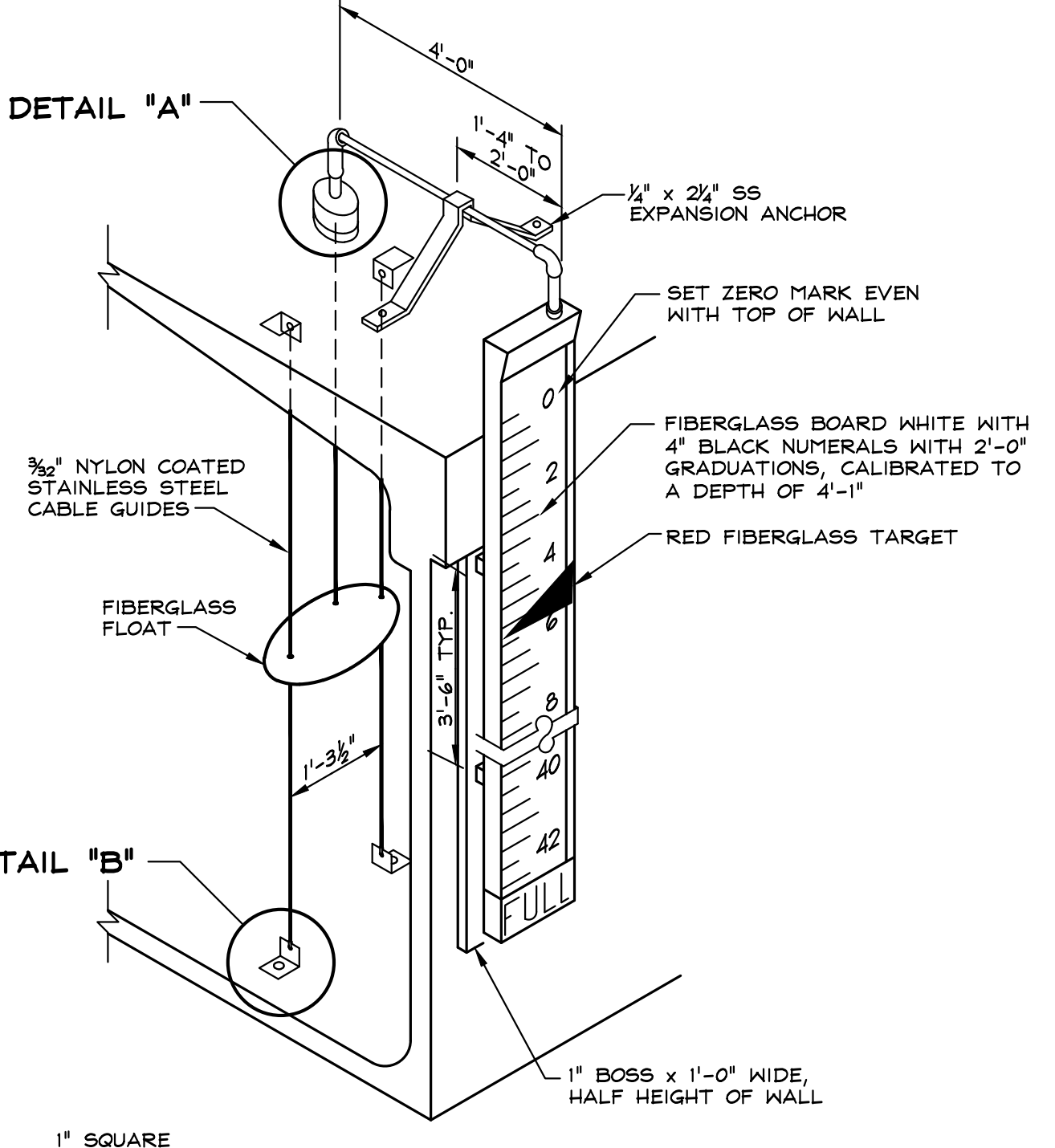
INTERIOR FIBERGLASS LADDER WITH FLEXIBLE CABLE SYSTEM
N.T.S.



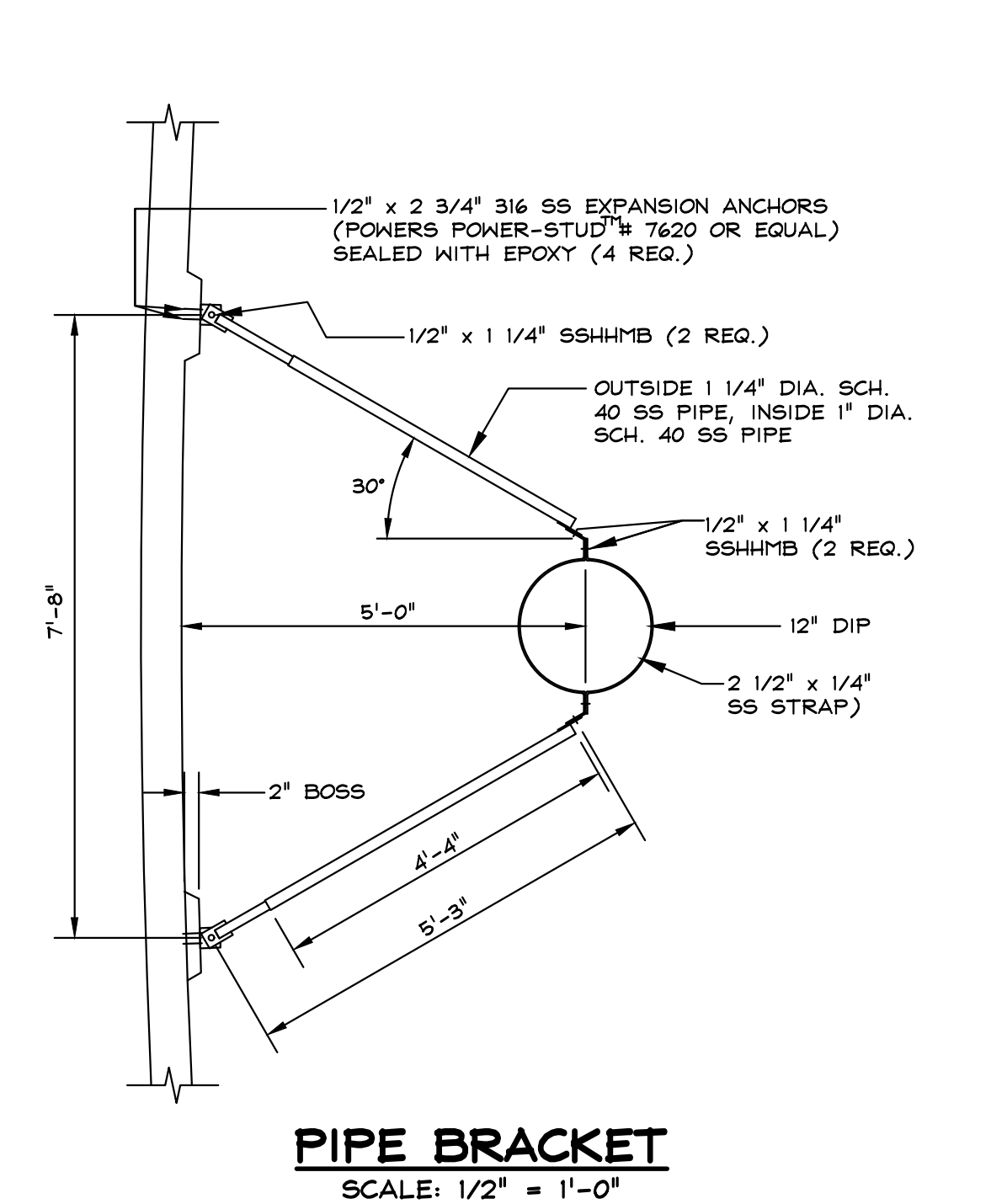
8" DI DOME PROBE CURB
N.T.S.



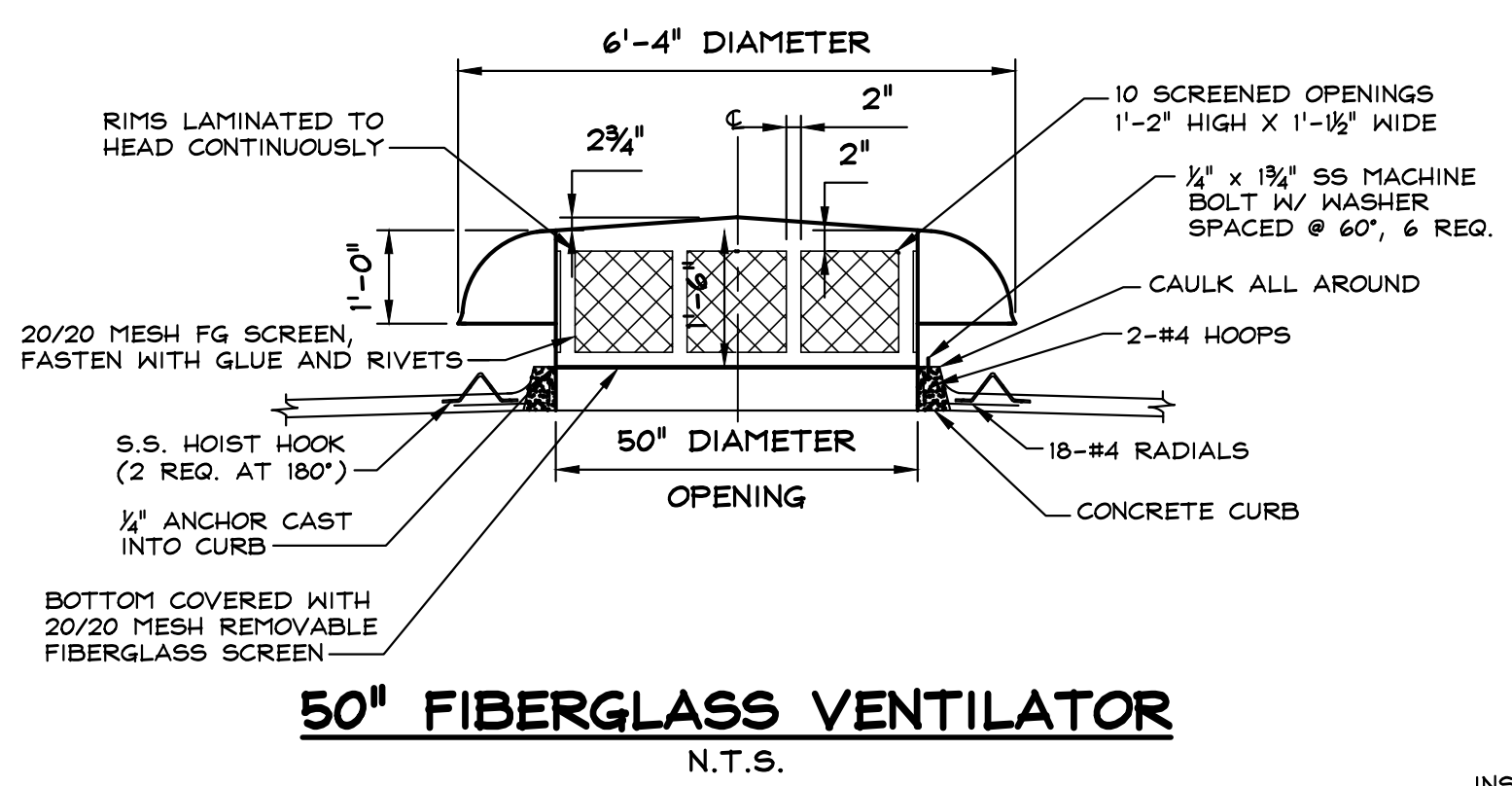
FIBERGLASS HATCH COVER
N.T.S.



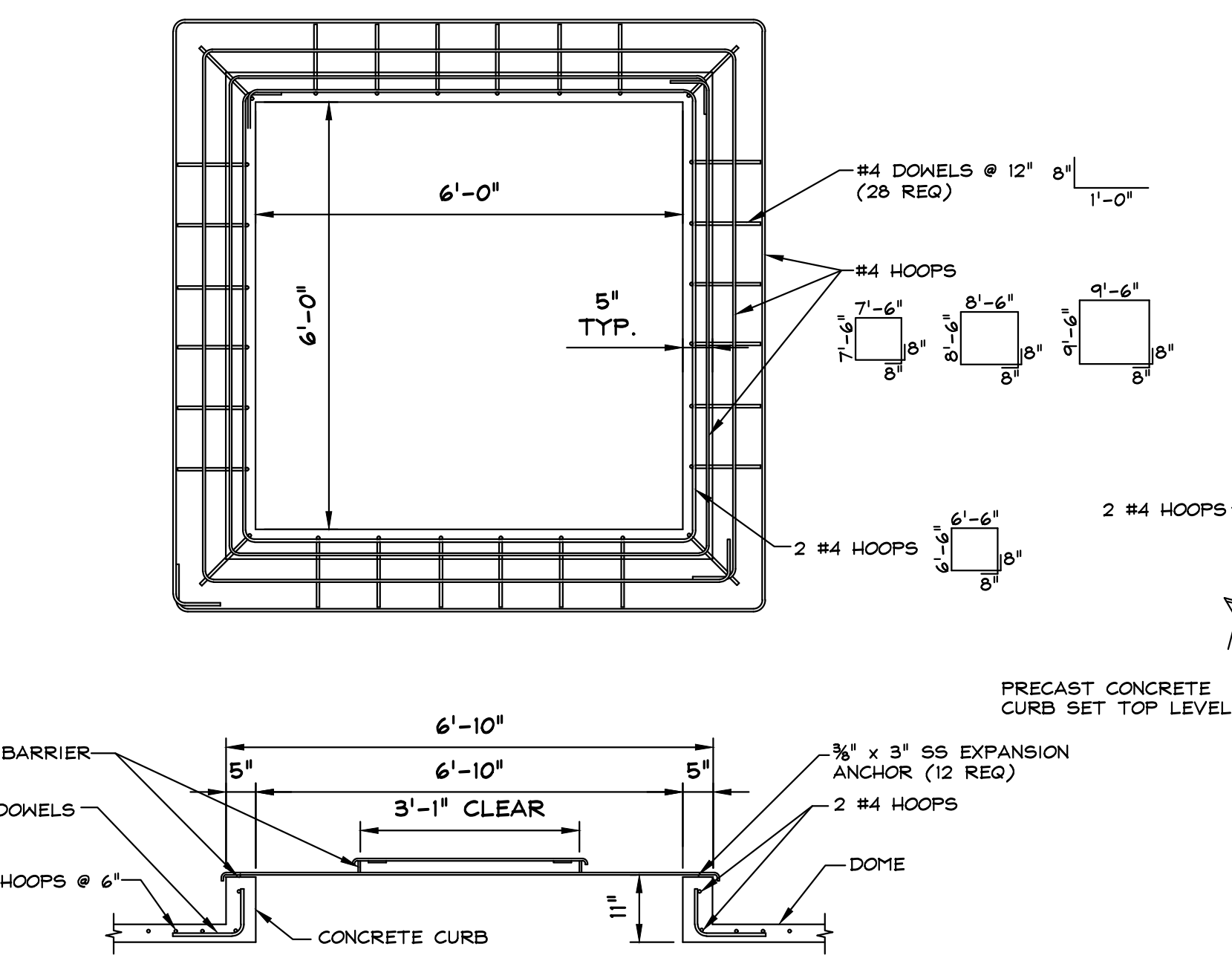
FIBERGLASS LIQUID LEVEL INDICATOR
N.T.S.



PIPE BRACKET
SCALE: 1/2" = 1'-0"



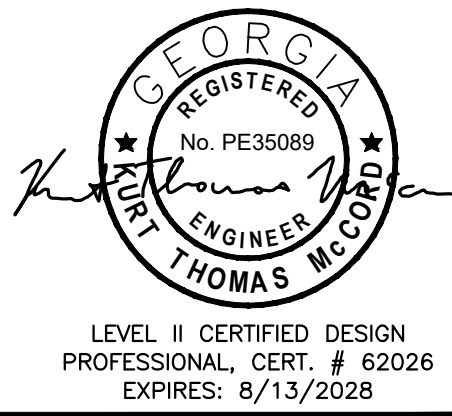
50" FIBERGLASS VENTILATOR
N.T.S.



FIBERGLASS HATCH COVER
N.T.S.



DU TO BE PLACED ON ALL DISTURBED AREAS TO MATCH EXISTING CONDITIONS



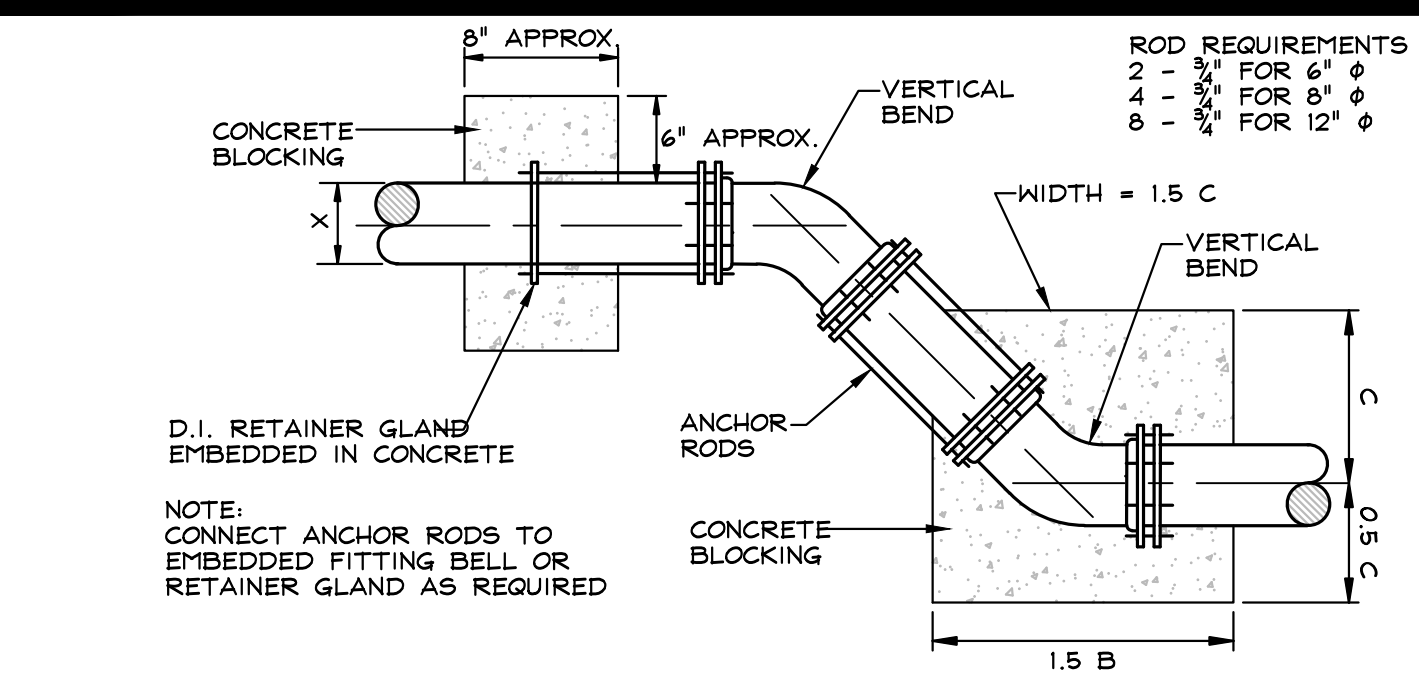
NEW FIRE TOWER ROAD (BROGDON)
2MG GROUND STORAGE TANK
FOR THE
CITY OF CALHOUN
GORDON COUNTY, GEORGIA

CITY OF CALHOUN
UTILITIES ENGINEERING
CALHOUN, GEORGIA 30701
PHONE: (706) 629-4701

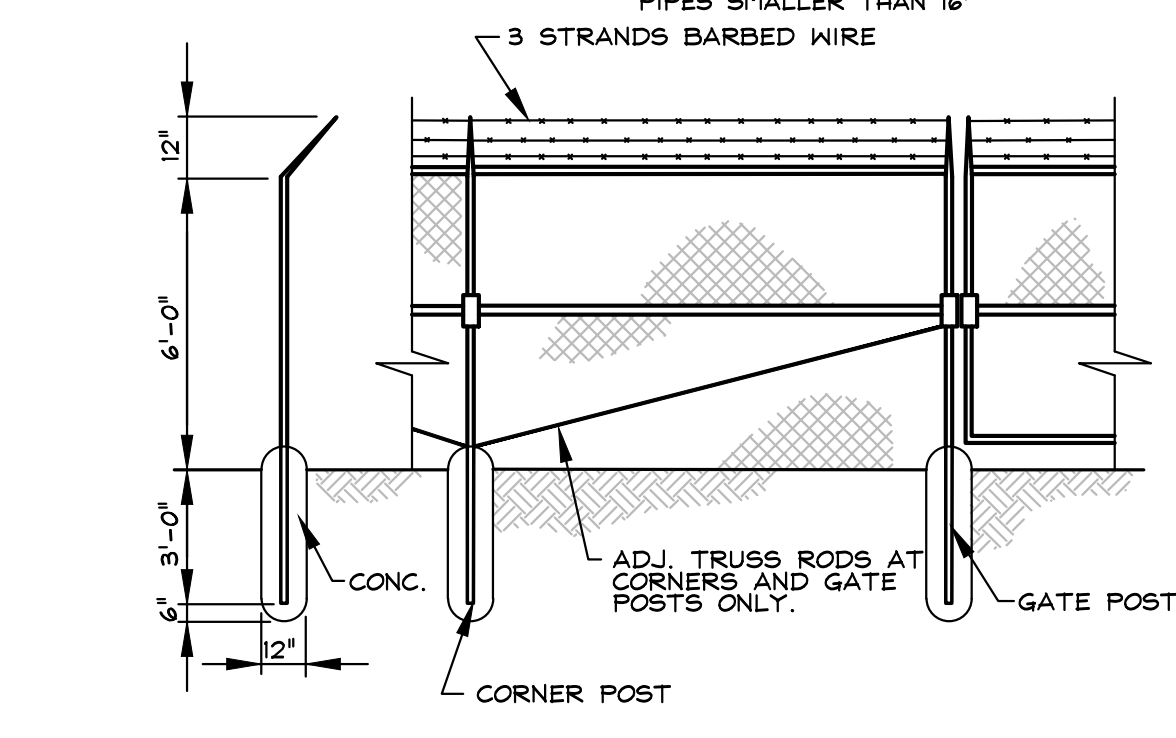
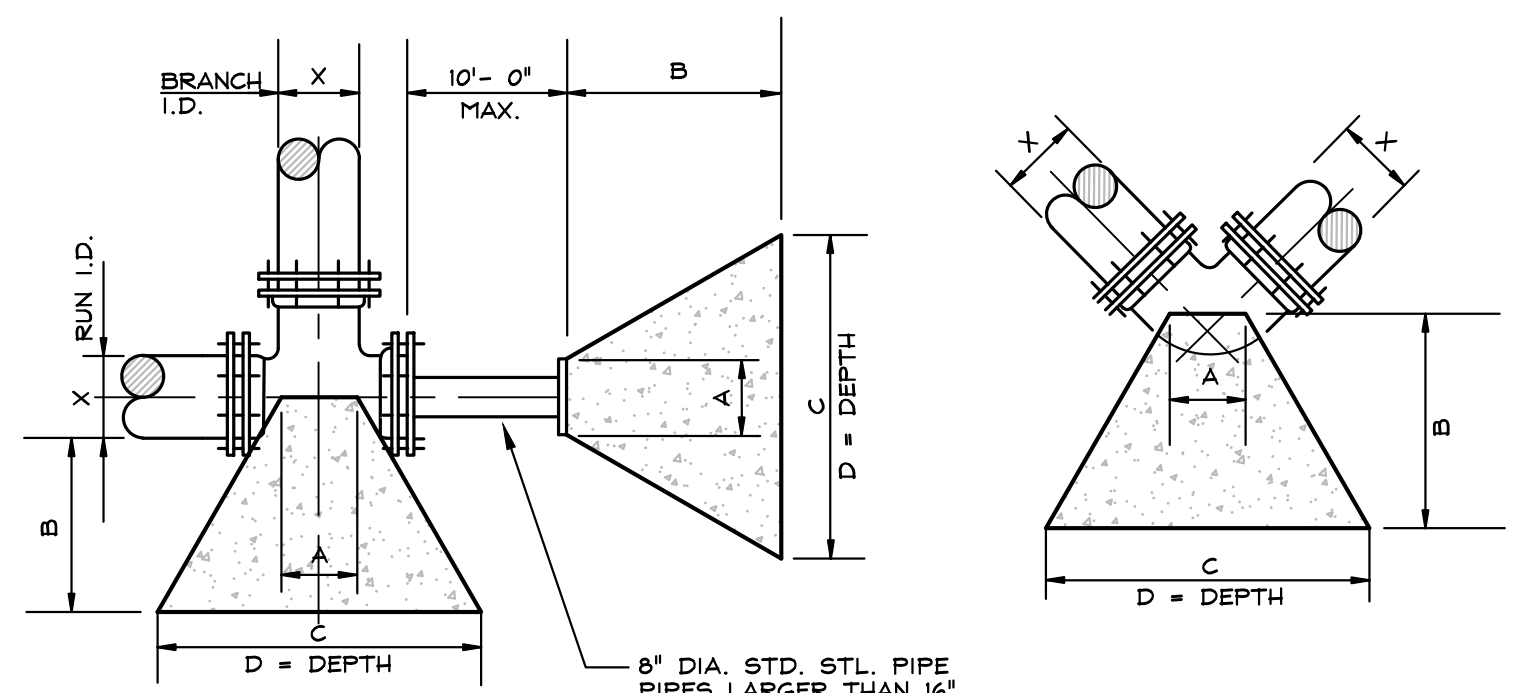


THIS LINE IS ONE INCH LONG WHEN DRAWING IS PLOTTED FULL SCALE	
DSGN: KTM	DRWN: ATL
DWG. NAME: FIRE TOWER MASTER	
PROJ. NO.: 358	SHEET NO.: 8
DATE: MAY 2026	OF 10 SHEETS

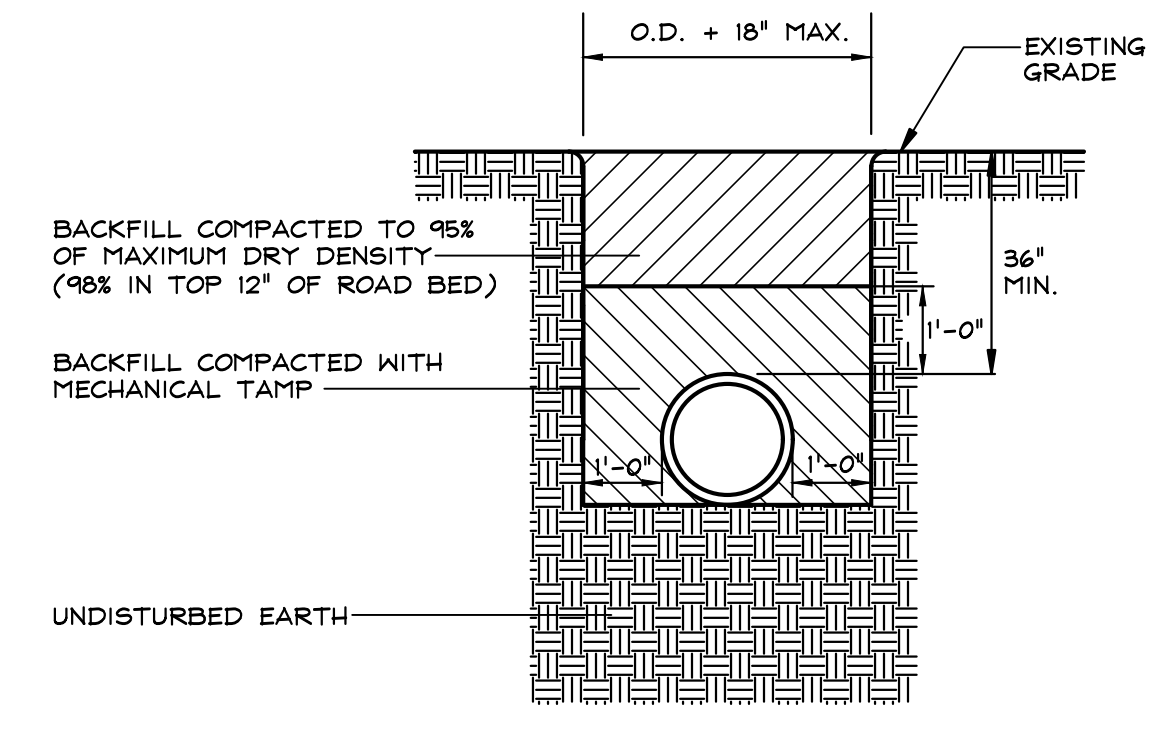
GROUND STORAGE TANK DETAILS



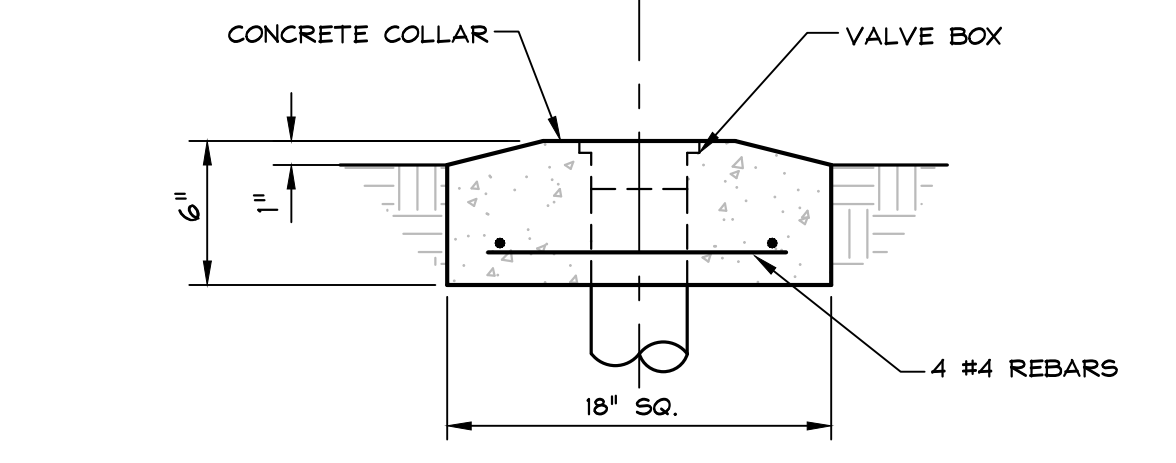
ROD REQUIREMENTS
 2 - 3/8" FOR 6" φ
 4 - 3/8" FOR 8" φ
 8 - 3/4" FOR 12" φ



SECURITY FENCE
N.T.S.



BEDDING DETAIL
N.T.S.



ALT. CONCRETE VALVE PAD
N.T.S.

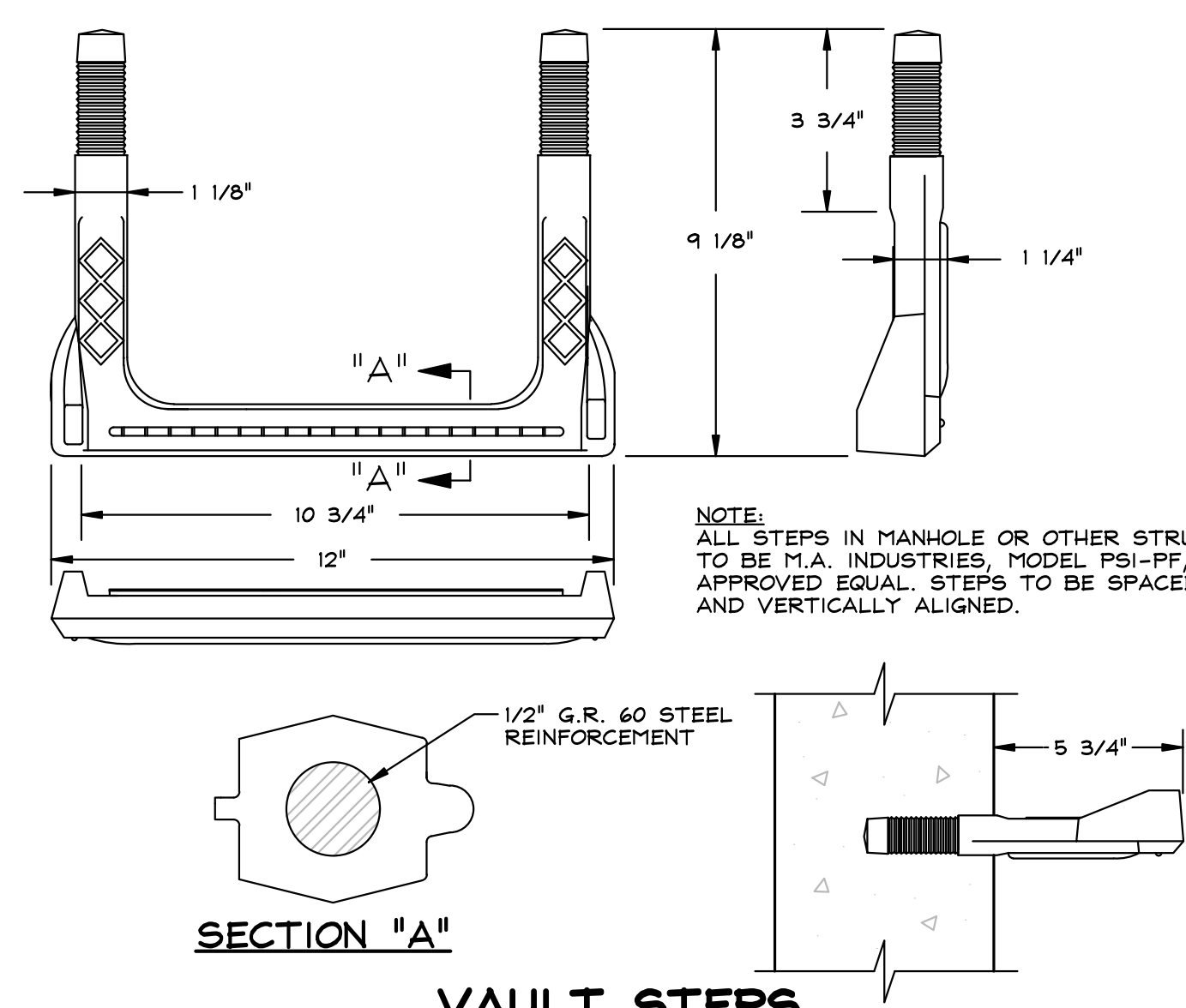
GEORGIA811
Contact 811 before you dig.

TO BE PLACED ON ALL DISTURBED AREAS TO MATCH EXISTING CONDITIONS

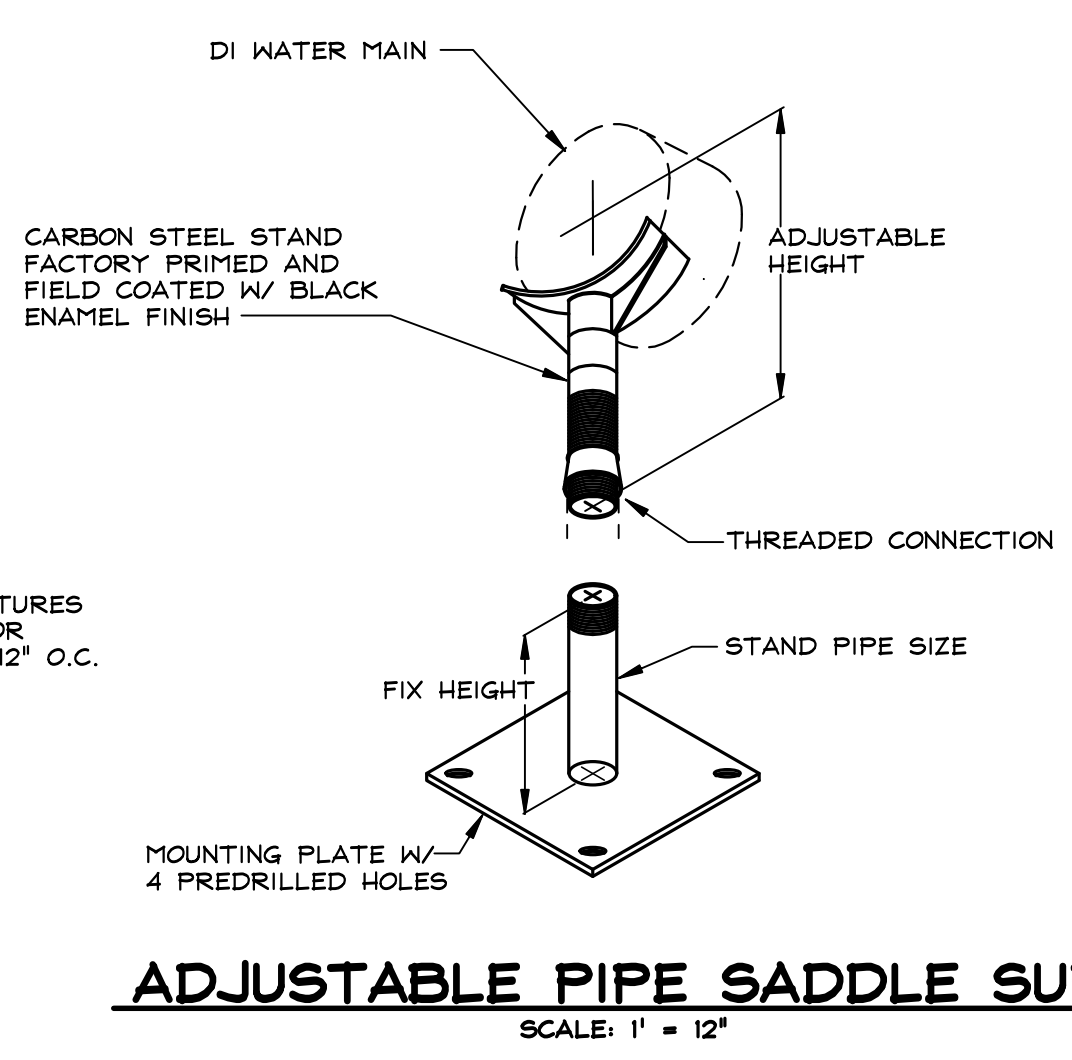
BLOCKING DIMENSIONS									
BENDS					BENDS				
X	A	B	C	D	X	A	B	C	D
30"	2'-0"	11'-6"	15'-3"	6'-0"	30"	1'-0"	2'-10"	4'-3"	3'-0"
24"	2'-0"	7'-9"	10'-9"	5'-6"	24"	1'-0"	2'-6"	3'-8"	2'-6"
20"	1'-9"	6'-0"	8'-6"	5'-0"	20"	1'-0"	2'-0"	3'-0"	2'-0"
16"	1'-3"	4'-0"	6'-0"	4'-6"	16"	1'-0"	1'-8"	2'-6"	1'-6"
12"	1'-0"	2'-9"	4'-0"	4'-0"	12"	8"	1'-0"	1'-6"	1'-6"
10"	1'-0"	2'-6"	3'-9"	3'-0"	10"	10"	1'-0"	1'-6"	1'-0"
8"	8"	1'-6"	2'-0"	2'-0"	8"	8"	1'-0"	1'-6"	1'-0"
6"	6"	1'-3"	1'-6"	1'-6"	6"	6"	1'-0"	1'-0"	1'-0"
4"	4"	1'-0"	1'-6"	1'-6"	4"	4"	1'-0"	1'-0"	9"

TEES & DEAD ENDS				
X	A	B	C	D
30"	3'-0"	8'-9"	13'-0"	5'-0"
24"	2'-6"	7'-3"	10'-8"	3'-9"
20"	2'-0"	5'-3"	8'-0"	3'-6"
16"	1'-0"	4'-3"	6'-4"	3'-6"
12"	1'-0"	2'-9"	4'-6"	2'-6"
10"	10"	2'-0"	3'-3"	2'-6"
8"	8"	1'-9"	2'-6"	2'-6"
6"	6"	1'-3"	2'-0"	1'-6"

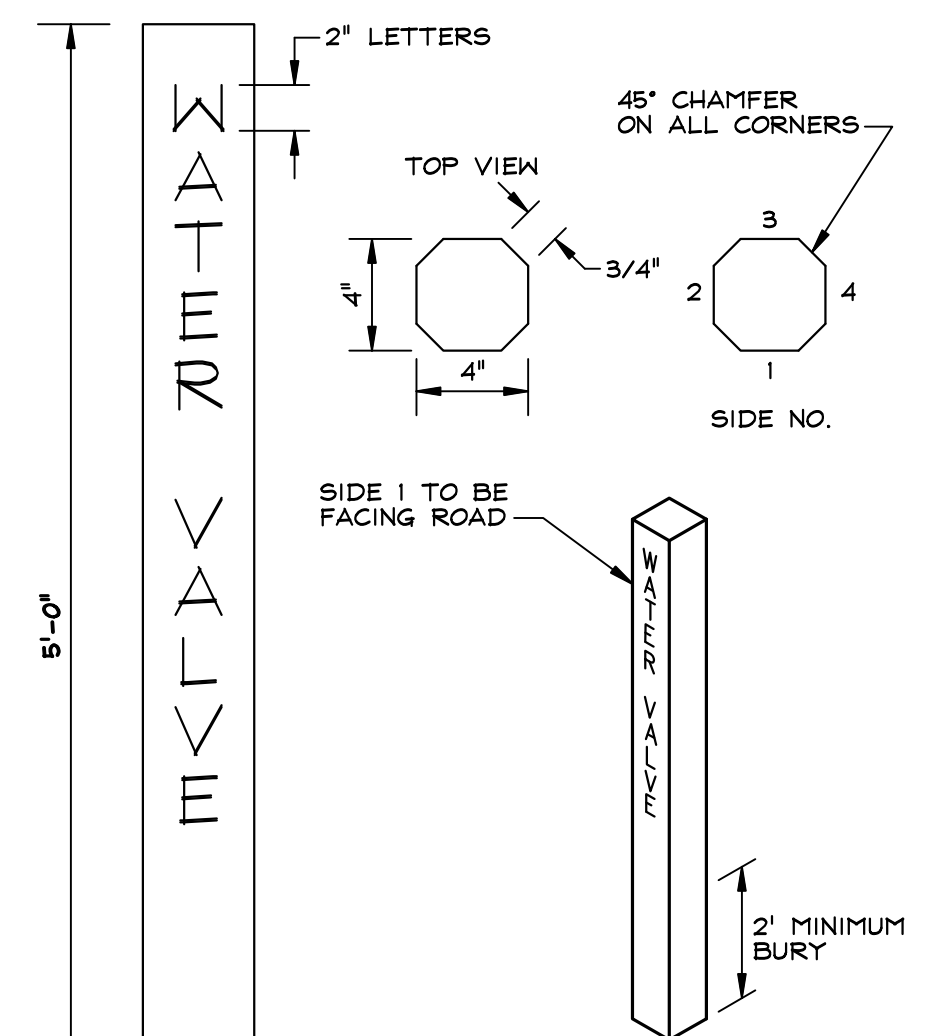
THRUST BLOCK
N.T.S.



VAULT STEPS
N.T.S.

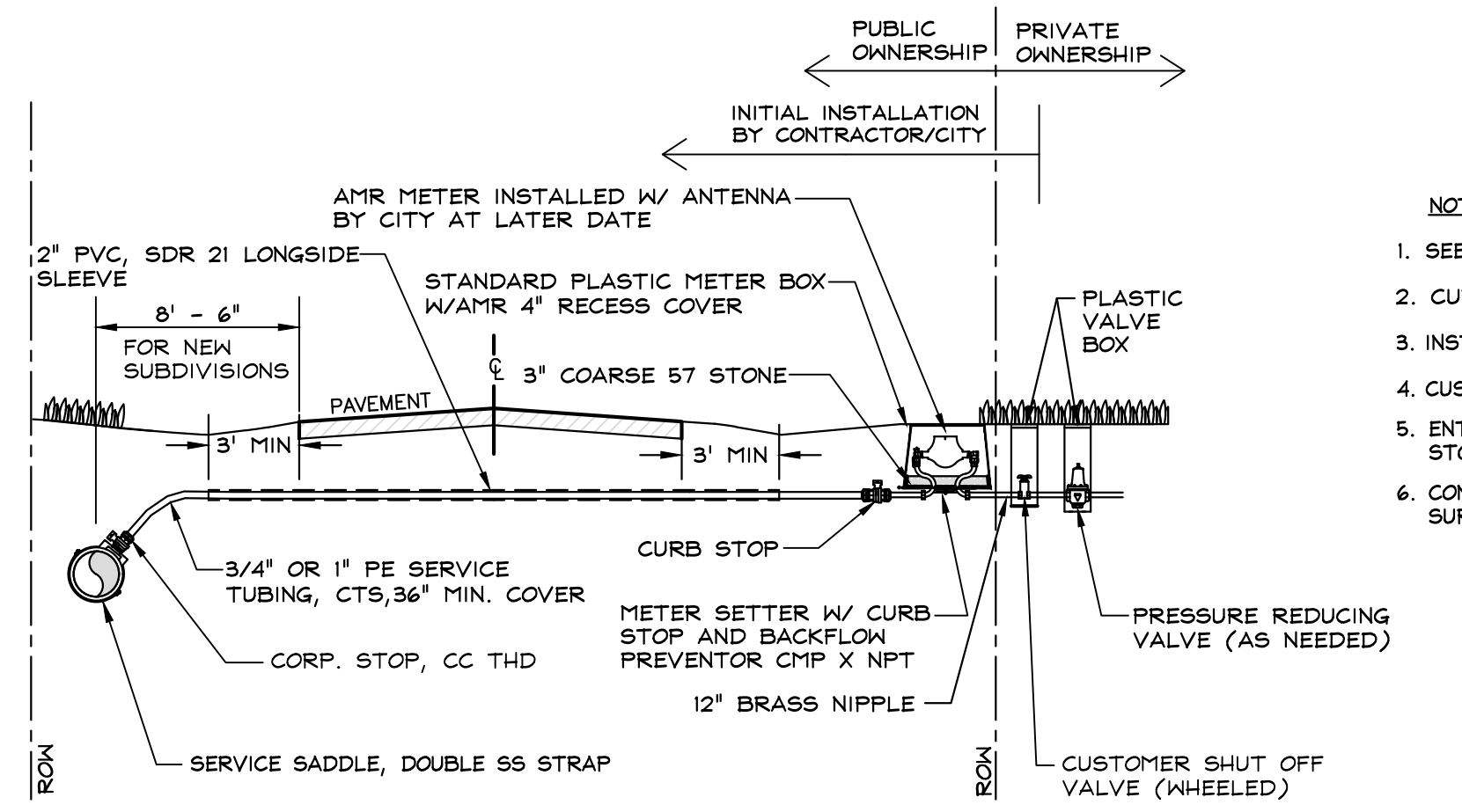


ADJUSTABLE PIPE SADDLE SUPPORT
SCALE: 1" = 12"



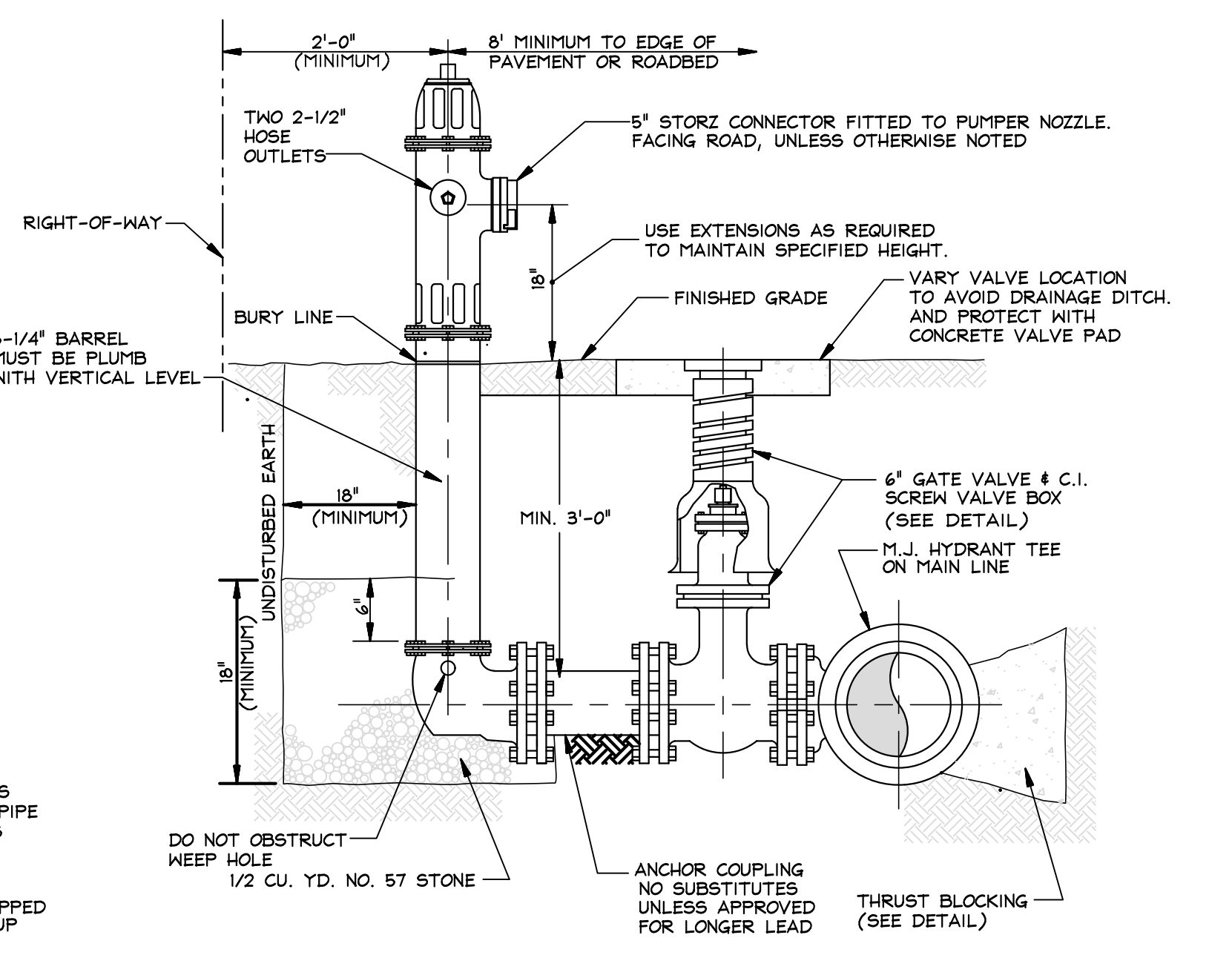
WATER VALVE INDICATOR POST
N.T.S.

- NOTES:
- 1 - CENTER OF CONCRETE POST SHALL BE REINFORCED WITH NO. 4 REBAR STEEL.
 - 2 - "WATER VALVE" SHALL BE ON SIDES 2 & 4.



WATER SERVICE CONNECTION
N.T.S.

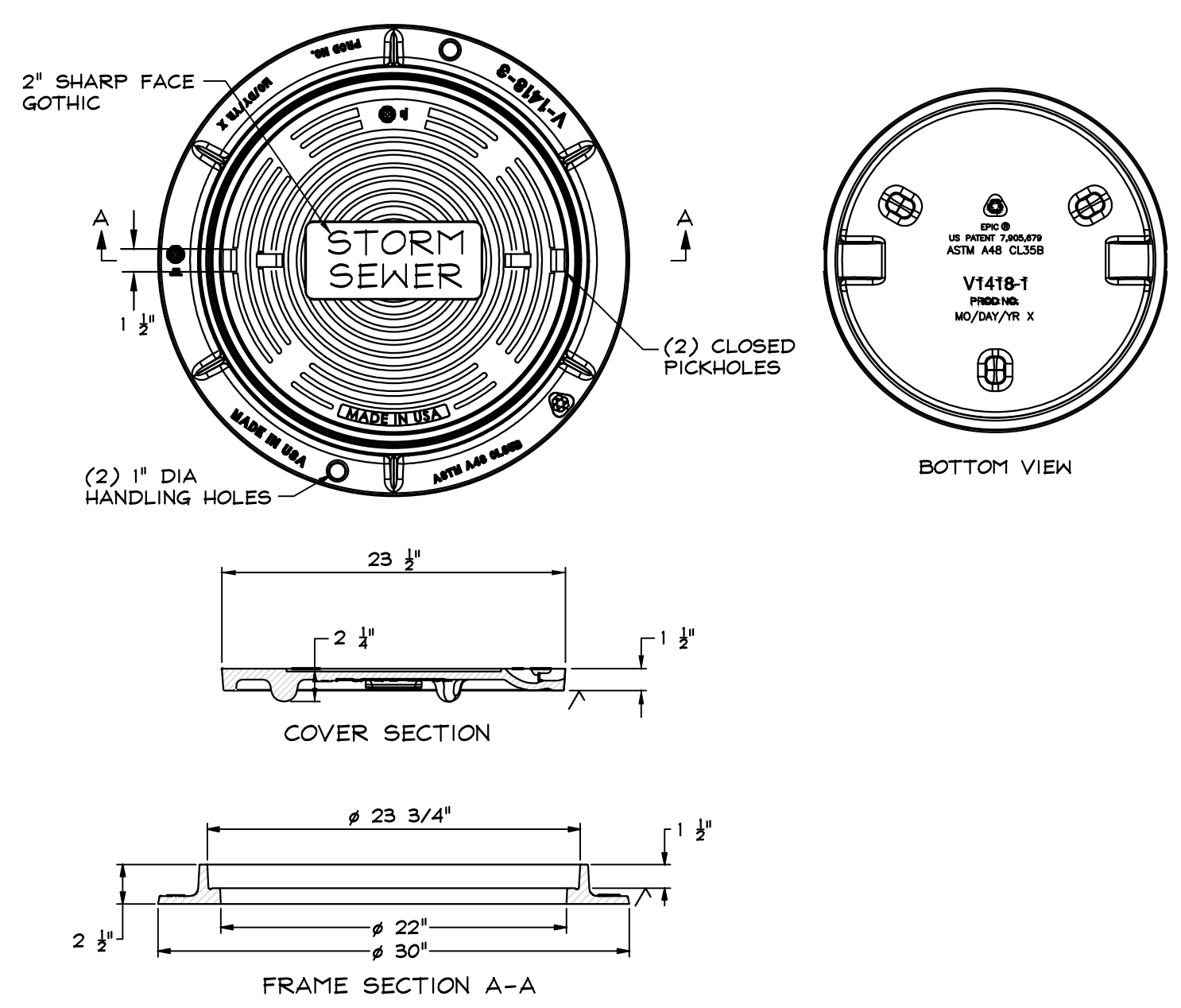
- NOTES:
1. SEE SPECIFICATIONS FOR ACCEPTABLE MATERIALS AND MANUFACTURERS.
 2. CUTOFF VALVE MUST BE IN PLACE BEFORE METER CAN BE INSTALLED.
 3. INSTALL CURB STOP ON SERVICE LINES OUTSIDE OF THE METER BOX.
 4. CUSTOMER SHUT-OFF VALVE SHALL BE LEFT IN THE 'CLOSED' POSITION.
 5. ENTIRE TRENCH LINE UNDER PAVEMENT MUST BE BACKFILLED WITH STONE, UNLESS SERVICE CASING IS DIRECTIONAL BORED UNDERNEATH.
 6. CONTRACTOR WILL BE HELD RESPONSIBLE FOR ANY DAMAGES TO PAVED SURFACES, OTHER UTILITIES, PERSONAL PROPERTIES, ETC. CAUSED BY BORING.



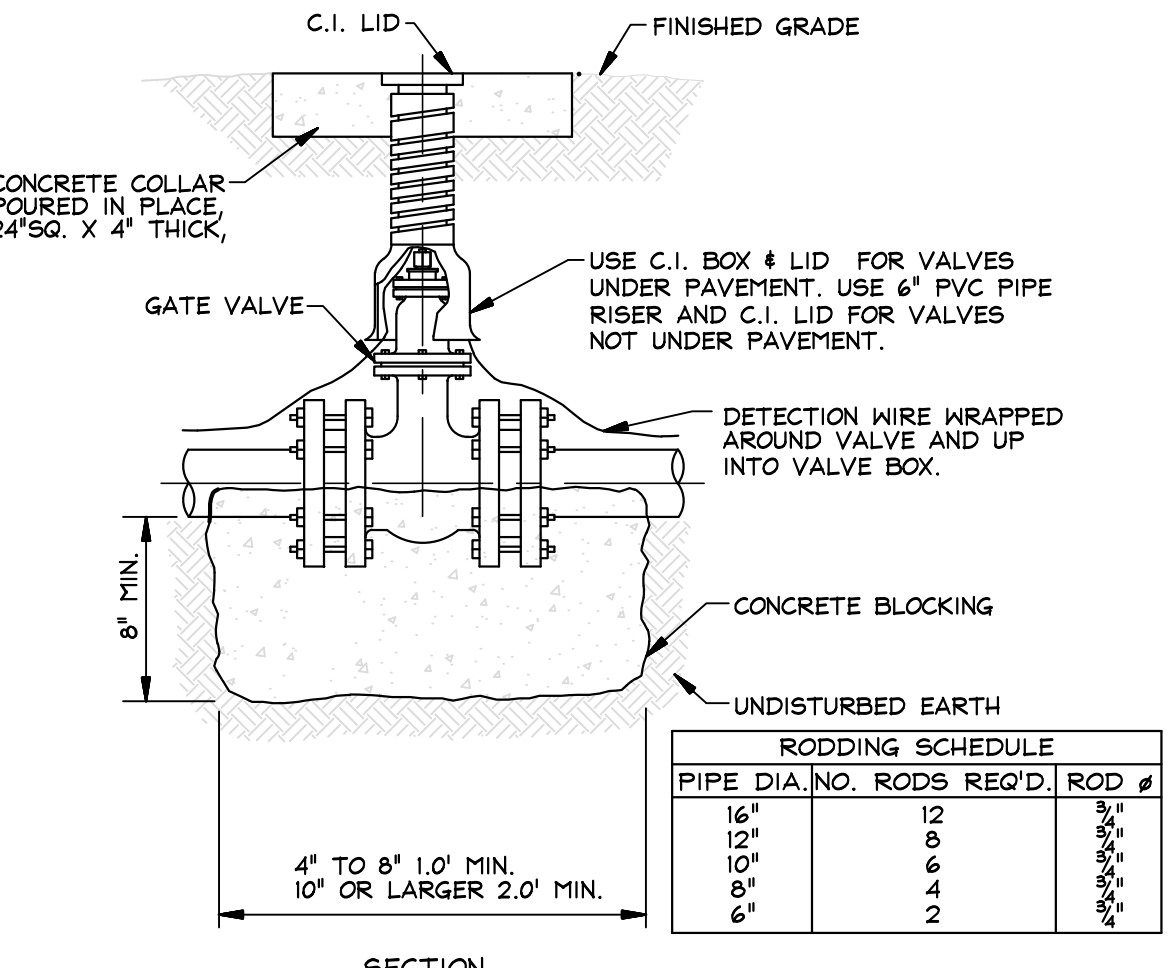
- NOTES:
- 1) SEE SPECIFICATIONS FOR ACCEPTABLE MATERIALS AND MANUFACTURERS.
 - 2) HYDRANTS MUST BE ACCESSIBLE FOR FIRE FIGHTERS (16' AWAY FROM GUARDRAILS, FENCES, STRUCTURES).
 - 3) WITH ENGINEERING DEPARTMENT APPROVAL, FIRE HYDRANTS MAY BE SHARED TO INTERMEDIATE HIGH AND LOW ELEVATIONS TO IMPROVE FLUSHING OF SEDIMENT AND AIR.
 - 4) RED FACTORY COATED HIGH PERFORMANCE 2-PART EPOXY WITH UV HIGH GLOSS 2-PART POLYURETHANE ENAMEL FINISH.

FIRE HYDRANT SETTING
N.T.S.

V1418-1 V1418-3 ASSEMBLY



STANDARD MANHOLE FRAME AND COVER
N.T.S.



VALVE SETTING & BOX DETAIL
N.T.S.

RODDING SCHEDULE			
PIPE DIA.	NO. RODS	REQ'D.	ROD #
16"	12	3/4"	3/4"
10"	8	3/4"	3/4"
8"	4	3/4"	3/4"
6"	4	3/4"	3/4"

REVISIONS:	
A INITIAL RELEASE	5/1/28

NEW FIRE TOWER ROAD (BROGDON)
 2MG GROUND STORAGE TANK
 FOR THE
 CITY OF CALHOUN
 GORDON COUNTY, GEORGIA

CITY OF CALHOUN
 UTILITIES ENGINEERING
 CALHOUN, GEORGIA 30701
 PHONE: (706) 629-4701



THIS LINE IS ONE INCH LONG WHEN DRAWING IS PLOTTED FULL SCALE

DSGN: KTM DRWN: ATL

DWG. NAME: FIRE TOWER MASTER

PROJ. NO.: 358

DATE: MAY 2026 SHEET NO.: 9 OF 10 SHEETS

REGISTERED PROFESSIONAL ENGINEER
 No. PE35089
 Thomas M. McLeod
 LEVEL II CERTIFIED DESIGN PROFESSIONAL CERT. # 62026 EXPIRES: 8/13/2028

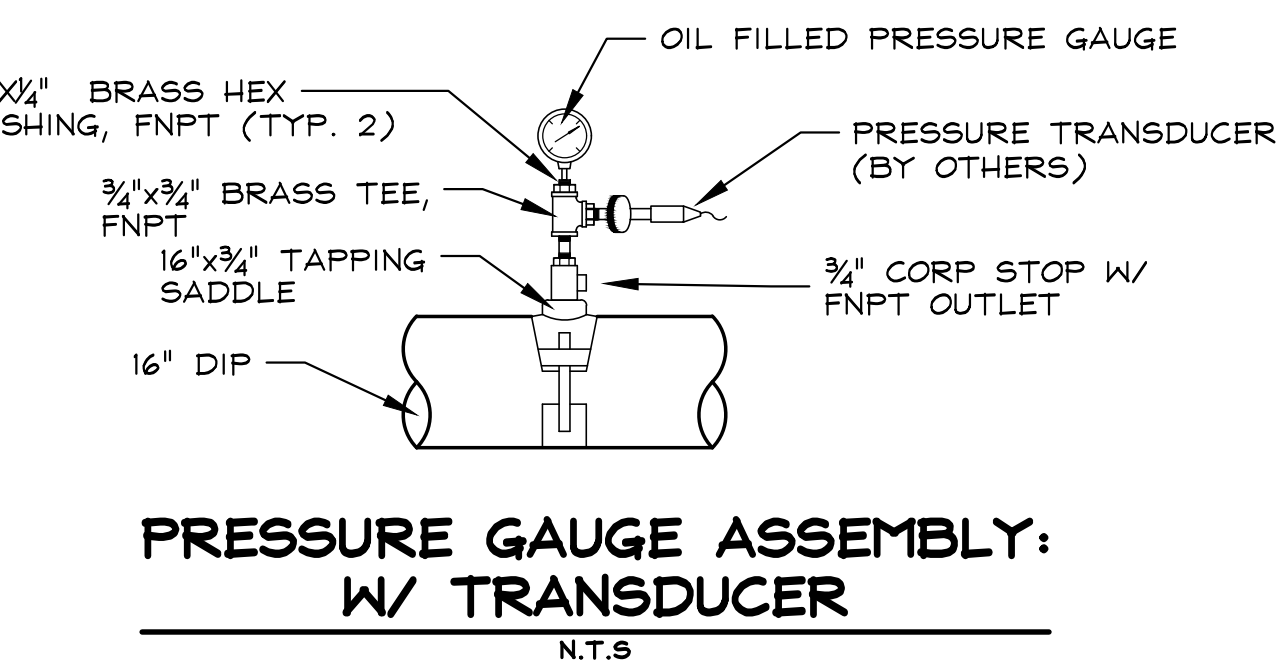
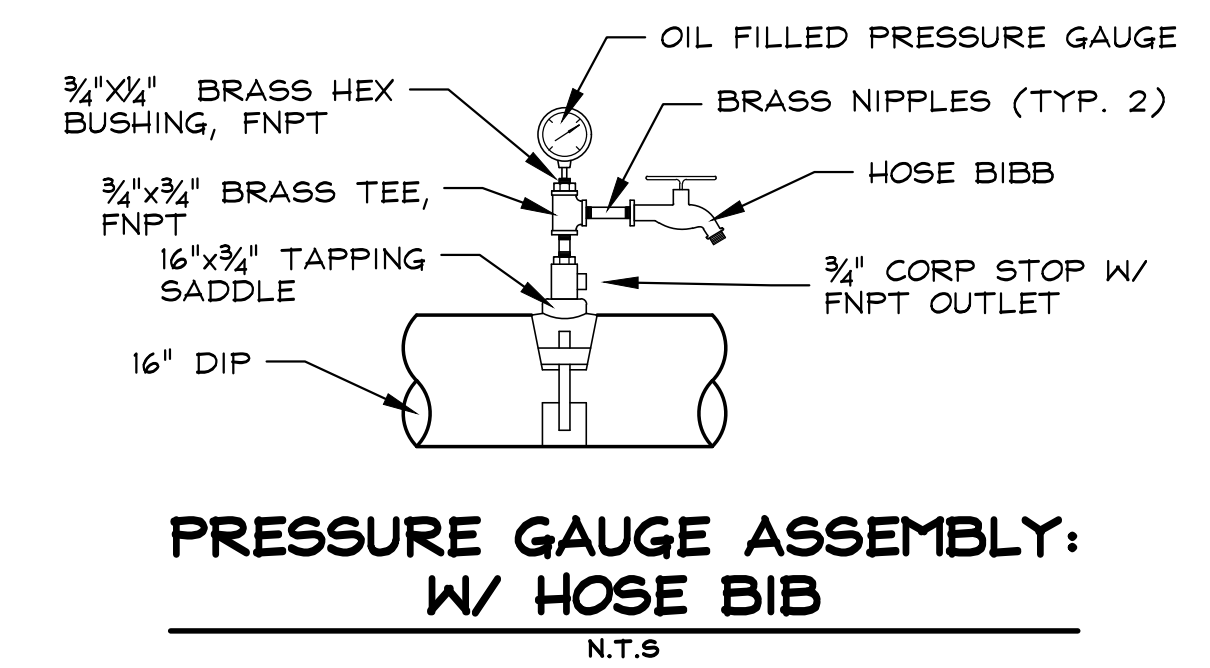
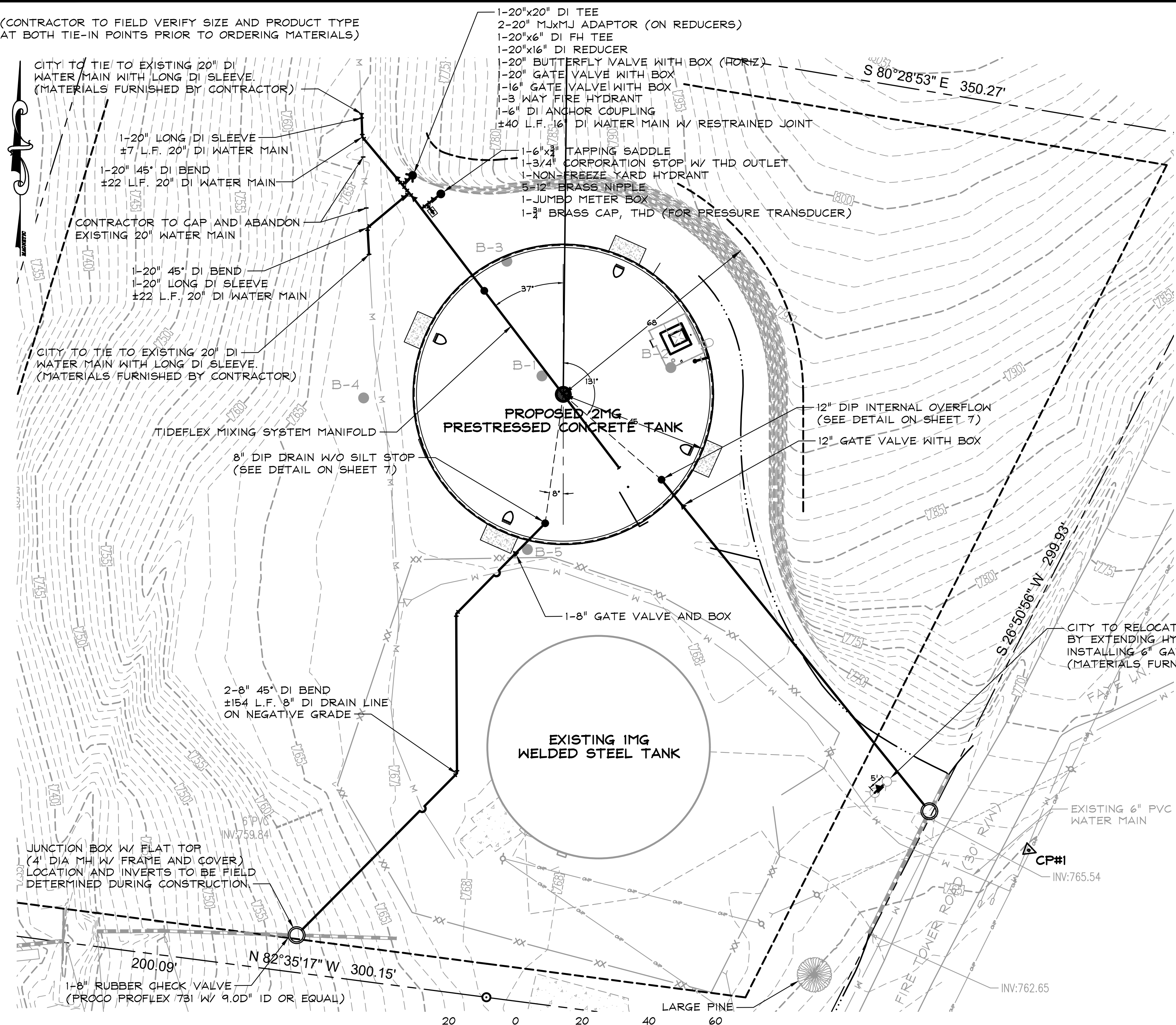
MISCELLANEOUS DETAILS

(CONTRACTOR TO FIELD VERIFY SIZE AND PRODUCT TYPE AT BOTH TIE-IN POINTS PRIOR TO ORDERING MATERIALS)

GEORGIA811
Contact 811 before you dig.

TO BE PLACED ON ALL DISTURBED AREAS TO MATCH EXISTING CONDITIONS

REVISIONS:	
A	INITIAL RELEASE 5/1/28



NEW FIRE TOWER ROAD (BROGDON)
2MG GROUND STORAGE TANK
FOR THE
CITY OF CALHOUN
GORDON COUNTY, GEORGIA

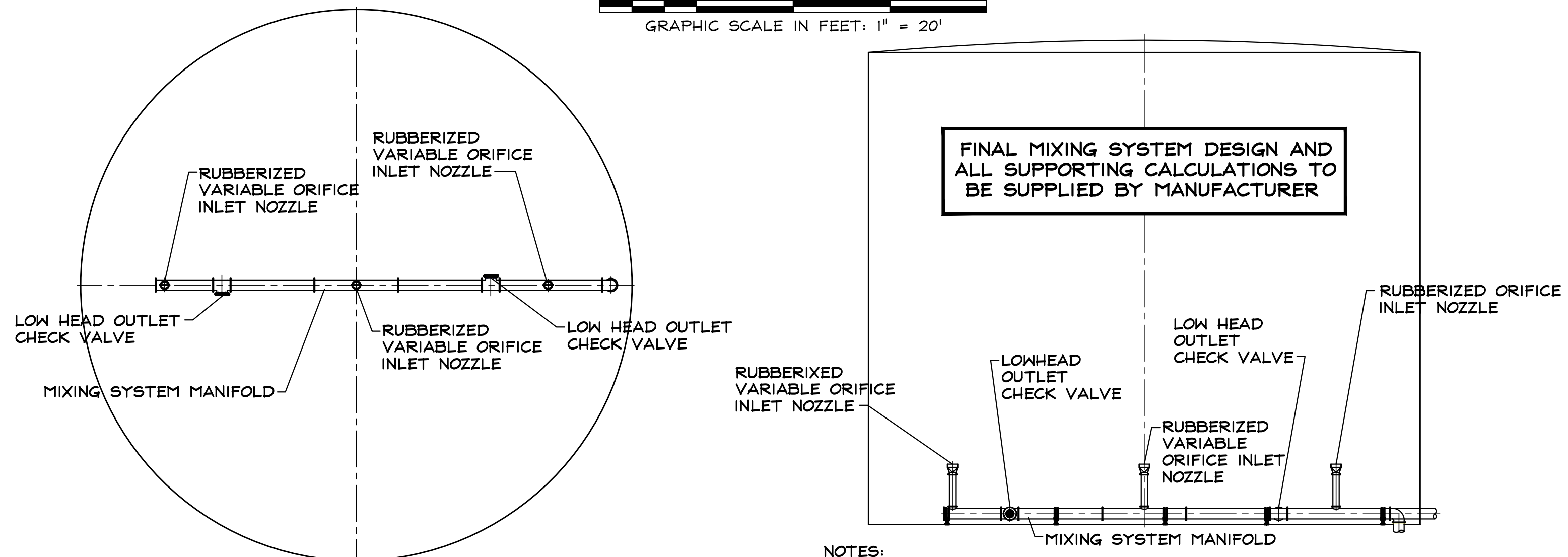
CITY OF CALHOUN
UTILITIES ENGINEERING
CALHOUN, GEORGIA 30701
PHONE: (706) 629-4701



THIS LINE IS ONE INCH LONG WHEN DRAWING IS PLOTTED FULL SCALE

DSGN: KTM	DRWN: ATL
DWG. NAME: FIRE TOWER MASTER	
PROJ. NO.: 358	
DATE:	SHEET NO.:
MAY 2026	10
	OF 10 SHEETS

REGISTERED PROFESSIONAL ENGINEER
No. PE35089
THOMAS M. RECORD
LEVEL II CERTIFIED DESIGN PROFESSIONAL CERT. # 62026 EXPIRES: 8/13/2028



- NOTES:**
- DO NOT USE THIS DRAWING FOR CONSTRUCTION. DRAWING INTENDED AS A GENERAL REPRESENTATION ONLY.
 - QUANTITY, SIZE, ELEVATIONS, LOCATIONS, AND DISCHARGE ANGLES OF INLET NOZZLES AND/OR OUTLET CHECK VALVES ARE TANK-SPECIFIC BASED ON HYDRAULICS, MIXING AND TURNOVER CRITERIA.
 - CARBON AND STAINLESS PIPE SECTIONS MAY BE SUPPLIED WITH PLAIN ENDS TO BE BUTT WELDED IN THE FIELD.
 - COMPONENTS OF MIXING SYSTEM SHALL BE SUPPLIED BY RED VALVE COMPANY, INC. OR APPROVED EQUAL.

- YARD PIPING NOTES**
- ONLY EXTERIOR YARD PIPING QUANTITIES ARE LABELED ABOVE. CONTRACTOR SHALL ALSO CONSIDER FITTINGS AND WATER MAIN LENGTHS INSIDE THE TANK AS NOTED ON SHEET 7.
 - ALL BURIED WATER MAINS SHALL HAVE A MINIMUM 3'-0" OF COVER AFTER FINAL GRADE IS ACHIEVED. AN EXCEPTION WILL BE MADE FOR DRAIN LINES WHERE DEPTHS ARE DICTATED BY PIPE SLOPES AND OUTFALL ELEVATIONS.
 - CONCRETE THRUST BLOCKING AND RESTRAINING GLANDS (I.E. MEGALUGS) ARE REQUIRED ON ALL FITTINGS. CONTRACTOR SHALL REFERENCE BLOCKING DETAIL FOR DIMENSIONS AND ORIENTATION. IN ADDITION, RODDING AND LOCKING GASKETS SHALL BE USED WHERE SHOWN OR AS NECESSARY. RODDING, LOCKING GASKETS, AND RESTRAINING GLANDS WILL NOT BE CONSIDERED A SUBSTITUTE FOR BLOCKING.
 - EXISTING UTILITY LINES ARE SHOWN IN APPROXIMATE LOCATIONS BASED ON CITY RECORDS AND THIRD PARTY INFORMATION. CONTRACTOR SHOULD CONTACT UPC AND FIELD VERIFY LOCATES BEFORE EXCAVATING. COORDINATE CROSSINGS WITH THE RESPECTIVE UTILITY OWNERS.
 - CONNECTION TO EXISTING 6" PVC WATERLINE SHALL OCCUR FIRST. CONTRACTOR CAN FILL, FLUSH, AND DISCONNECT USING THE WET TAP. SO THAT, THE 20" TIE-INS MAY OCCUR WITH LIMITED DOWNTIME.
 - ALL 20" AND 16" VALVES WITH LESS THAN 4' COVER SHALL BE INSTALLED IN THE HORIZONTAL POSITION. HORIZONTAL GATE VALVES SHOULD HAVE BEVEL GEARING AND THE BUTTERFLY VALVES SHOULD HAVE SPUR GEARING.

MISCELLANEOUS DETAILS