

ON-SITE WASTEWATER SYSTEM FOR NEW RALPH CHANDLER MIDDLE SCHOOL AT FORK SHOALS 4231 FORK SHOALS ROAD SIMPSONVILLE, SOUTH CAROLINA 29381 DHEC PERMIT #NDOO84808

AS-BUILT DRAWINGS

CIVIL SITEWORK LEGEND

CMP	CORRUGATED METAL PIPE	—	CENTERLINE	
FES	FLARED END SECTION	—	SIGN	
FOC	FACE OF CURB	—	STORM DRAIN STRUCTURE	
BOC	BACK OF CURB	—	HDPE	HIGH DENSITY POLYETHYLENE
UGE	UNDERGROUND ELECTRIC	—	PP	POWER POLE
EOP	EDGE OF PAVEMENT	—	FF	FINISH FLOOR
EL	ELEVATION	R	RADIUS	
RCP	REINFORCED CONCRETE PIPE	CONC.	CONCRETE	
PL	PROPERTY LINE	N	NORTHING	
G	(NATURAL) GAS	E	EASTING	
I.E.	INVERT ELEVATION	DI	GRATED DROP INLET	
SS	SANITARY SEWER	SSMH	SANITARY SEWER MANHOLE	
WM	WATER METER	DWG	DRAWING	
WV	WATER VALVE	CTB	CONCRETE THRUST BLOCK	
MH	MANHOLE	DS	DOWNSPOUT	
DIA.	DIAMETER	SBR	SEGMENTAL BLOCK RETAINING WALL	
PVC	POLYVINYL CHLORIDE	ACP	ASPHALT CONCRETE PAVEMENT	
SD	STORM DRAIN	PP	POWER POLE	
FH	FIRE HYDRANT	FP	FIRE HYDRANT	
LP	LIGHT POLE	YH	YARD HYDRANT	
—B—	SILT FENCE	LD	LIGHT DUTY	
RD	ROOF DRAIN	HD	HEAVY DUTY	
E	OVERHEAD ELECTRIC	FDC	FIRE DEPT CONNECTION	
W	POTABLE WATER	OIP	CAST-IN-PLACE	
FP	FIRE PROTECTION	GAB	GRADED AGGREGATE BASE	
		PIV	POST-INDICATOR VALVE	
		OHP	OVERHEAD POWER	

SHEET LIST

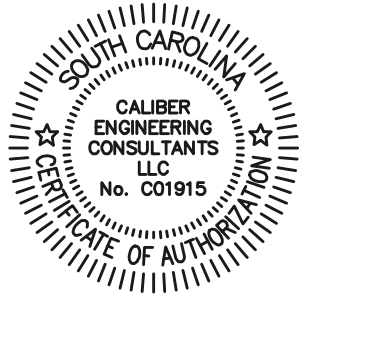
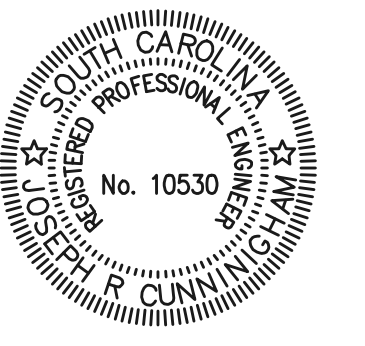
- SS-0. COVER SHEET, VICINITY & COUNTY MAPS, LEGEND, & ABBREVIATIONS
 - SS-1. OVERALL FINAL SITE PLAN
 - SS-2. ASSUMED EXISTING CONDITIONS PLAN
 - SS-3. WASTEWATER SYSTEM SITE PLAN
 - SS-4. WWTP PROCESS FLOW DIAGRAM / P&ID
 - SS-5. INFLUENT PUMP STATION ENLARGED PLAN AND DETAILS
 - SS-6. TREATMENT PLANT ENLARGED PLAN
 - SS-7. TREATMENT PLANT SECTIONS & DETAILS
 - SS-8. DRIP IRRIGATION SYSTEM PUMP STATION PLAN, P&ID, SECTIONS, & DETAILS
 - SS-9. DRIP IRRIGATION SYSTEM PRELIMINARY LAYOUT
 - SS-10. S & EC DETAILS AND NOTES
 - SS-11. MISCELLANEOUS DETAILS
 - SS-12. S&EC PLAN
- △ B.B. HOBBS CO. DRIP FIELD LAYOUT "AS-BUILT"**
- E-1. ELECTRICAL LEGEND AND SITE PLAN
 - E-2. ELECTRICAL RISER DIAGRAM AND PLANS



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**ON-SITE
WASTEWATER
SYSTEM**
FOR
**NEW RALPH CHANDLER
MIDDLE SCHOOL
AT FORK SHOALS**
SIMPSONVILLE, SOUTH CAROLINA



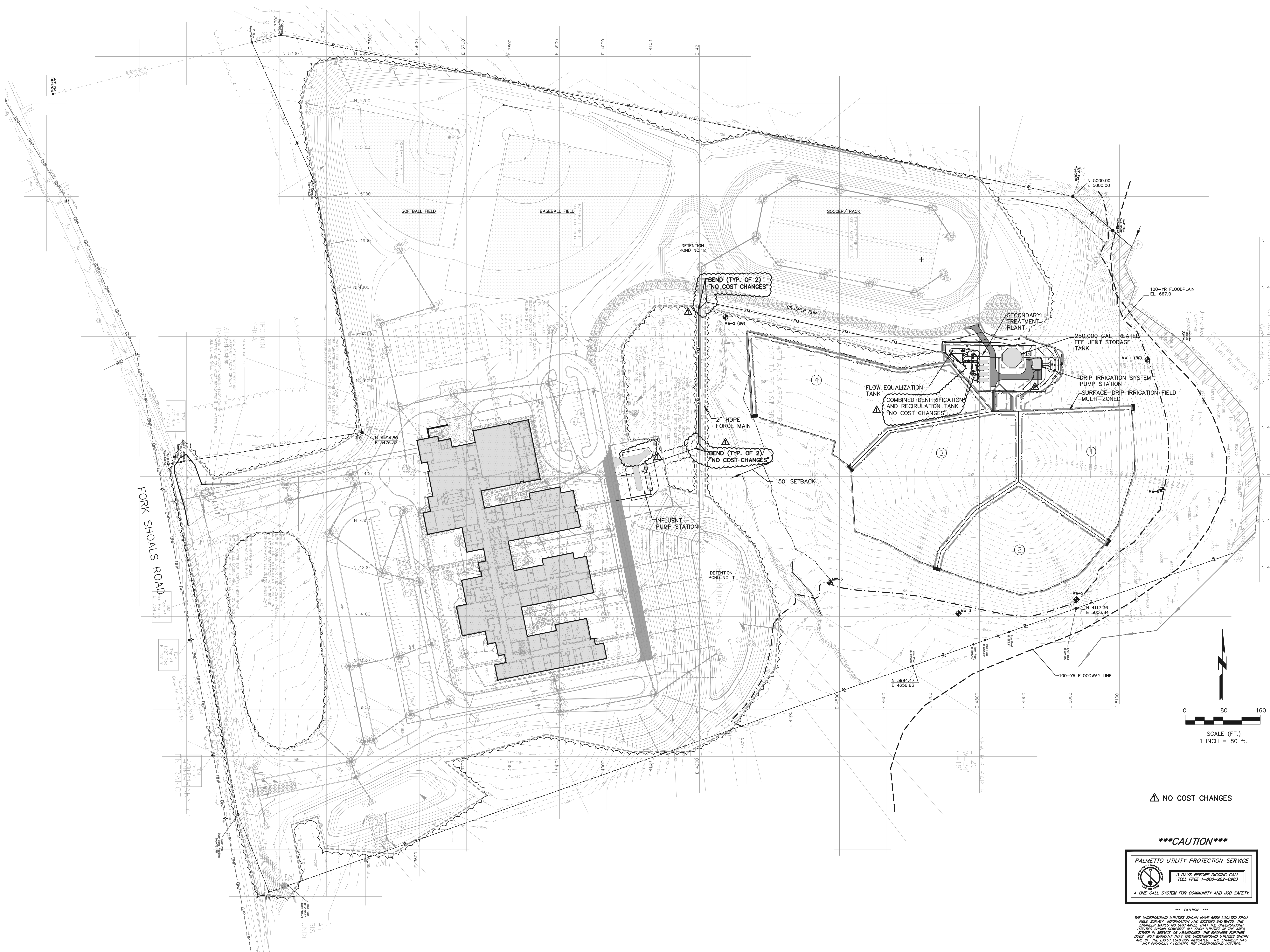
**GREENVILLE COUNTY
SCHOOLS**

DATE	REV	DESCRIPTION
05/03/07	0	ISSUED FOR CONSTRUCTION
02/23/06	1	AS-BUILT

ISSUE: ISSUED FOR CONSTRUCTION
DATE: 02/06/07
PROJECT NO: 070-003
CAD DWG FILE: SS-0.dwg
DRAWN BY: KJK
CHECKED BY: GAJ
SHEET TITLE
COVER SHEET

403 CD SS-0

D
C
B
A



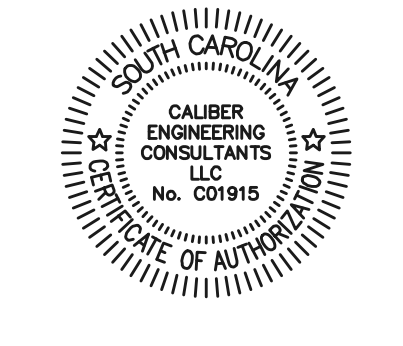
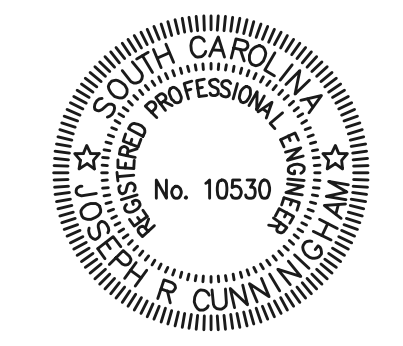
OVERALL FINAL SITE PLAN
SCALE: 1" = 80'

1 2 3 4 5

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ON-SITE WASTEWATER SYSTEM
FOR
NEW RALPH CHANDLER MIDDLE SCHOOL AT FORK SHOALS
SIMPSONVILLE, SOUTH CAROLINA



GREENVILLE COUNTY SCHOOLS

DATE	REV	DESCRIPTION
05/03/07	0	ISSUED FOR CONSTRUCTION
06/23/08	1	AS-BUILT

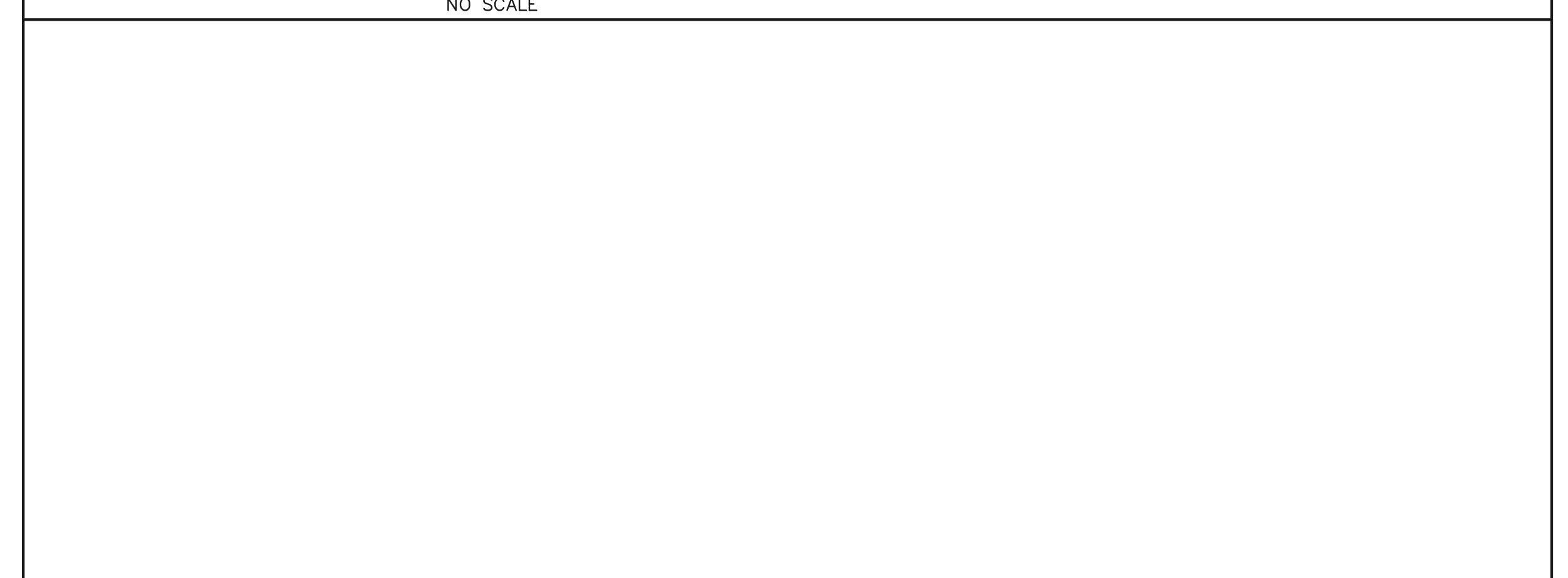
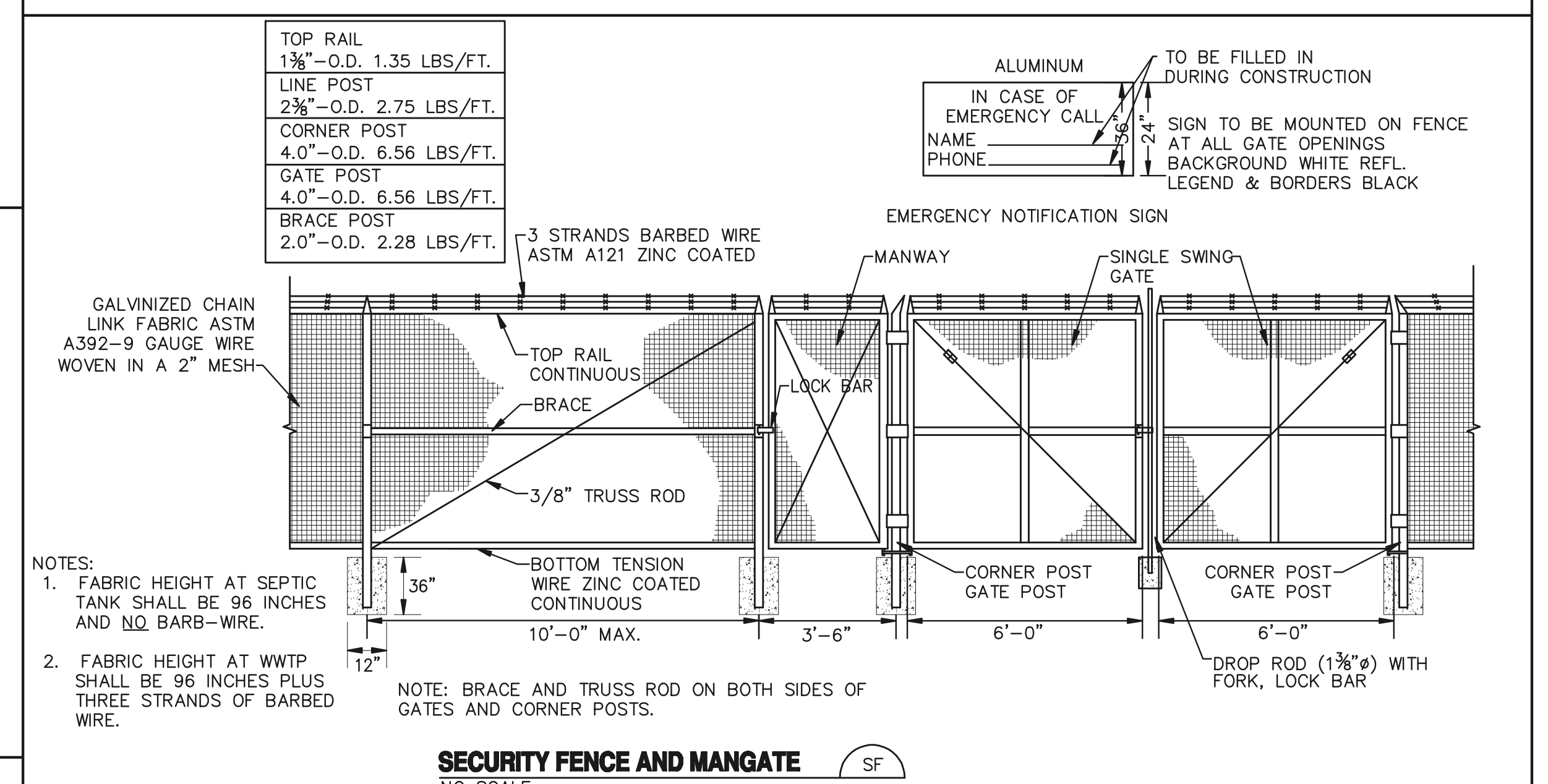
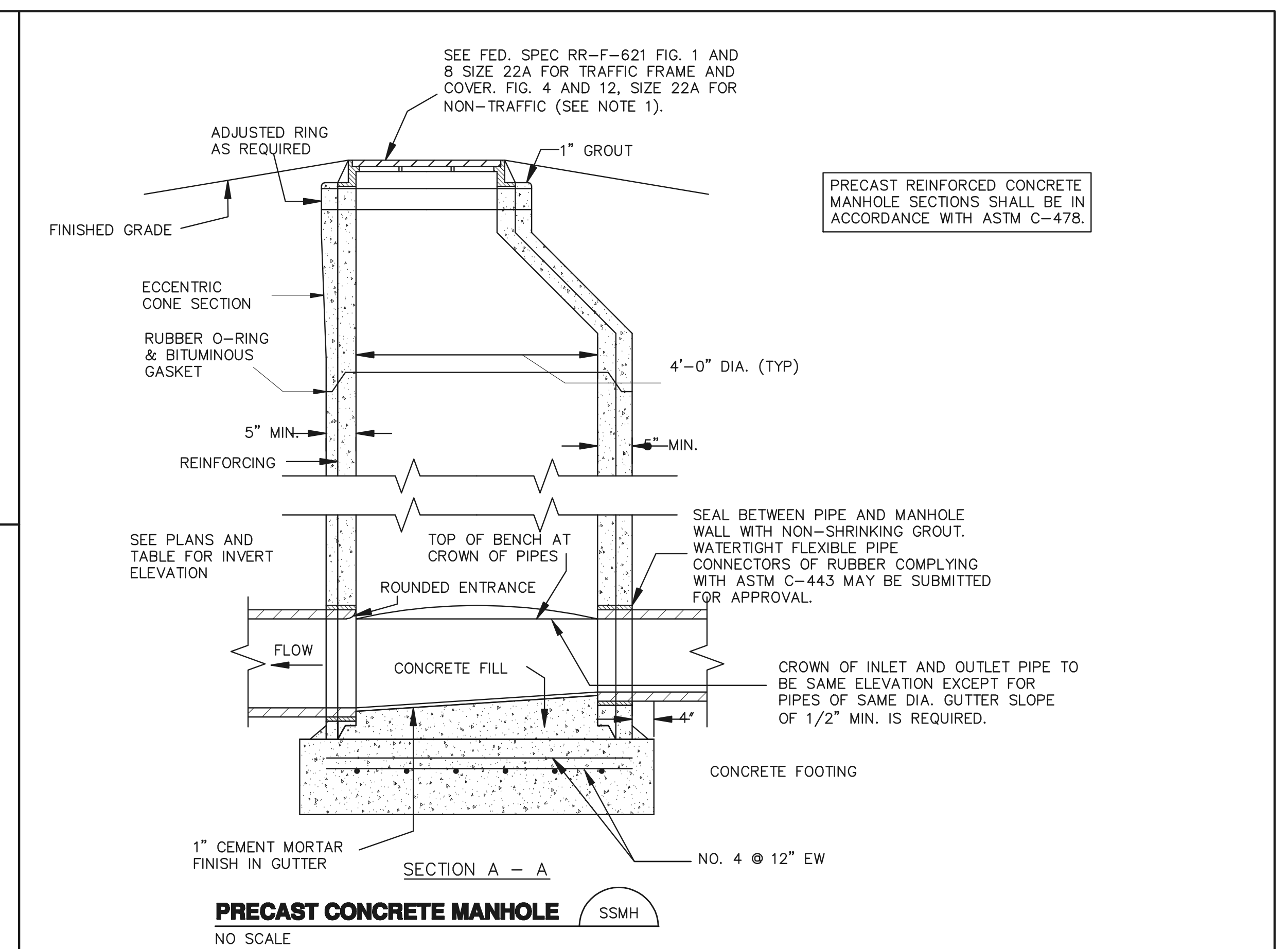
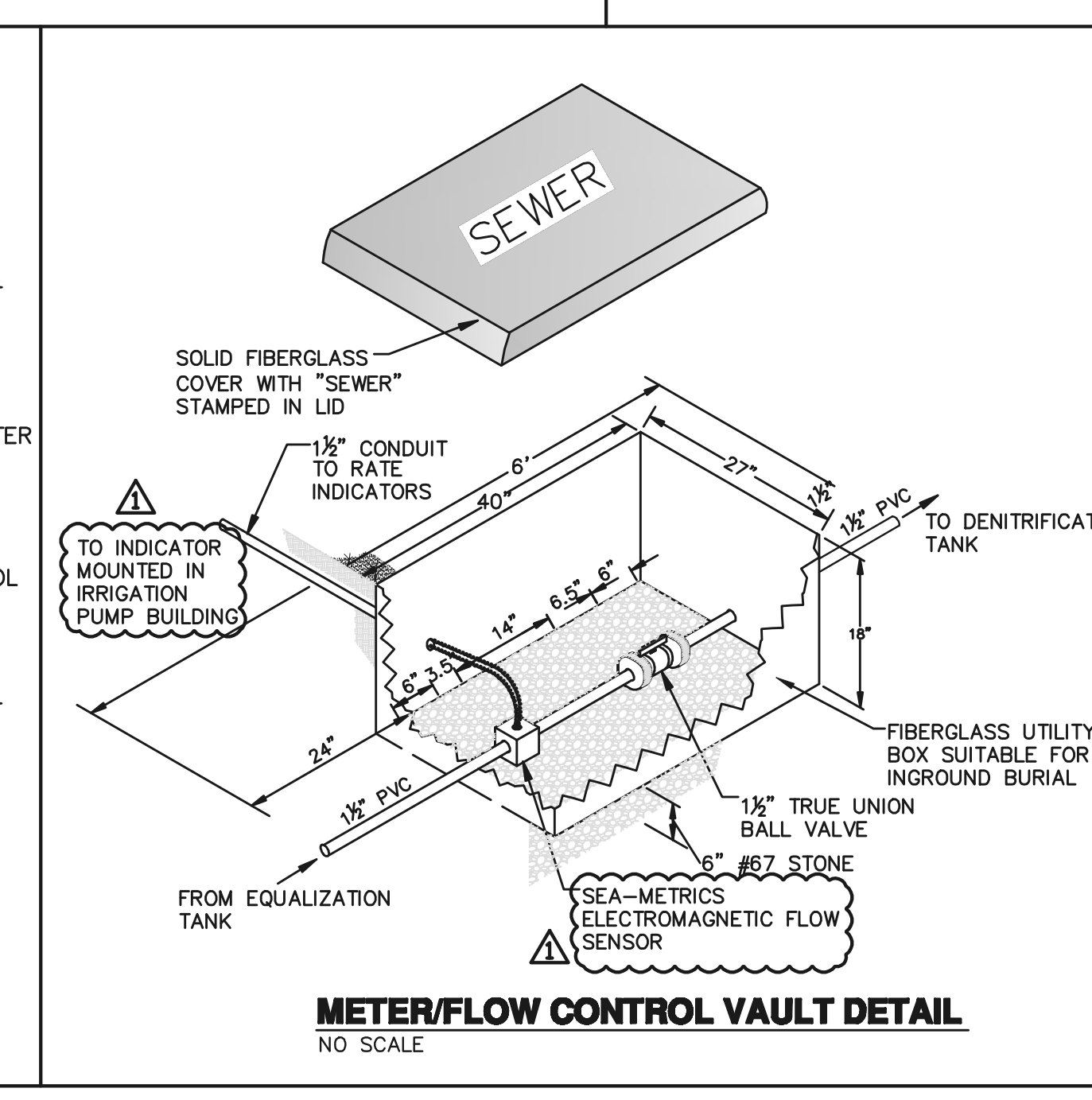
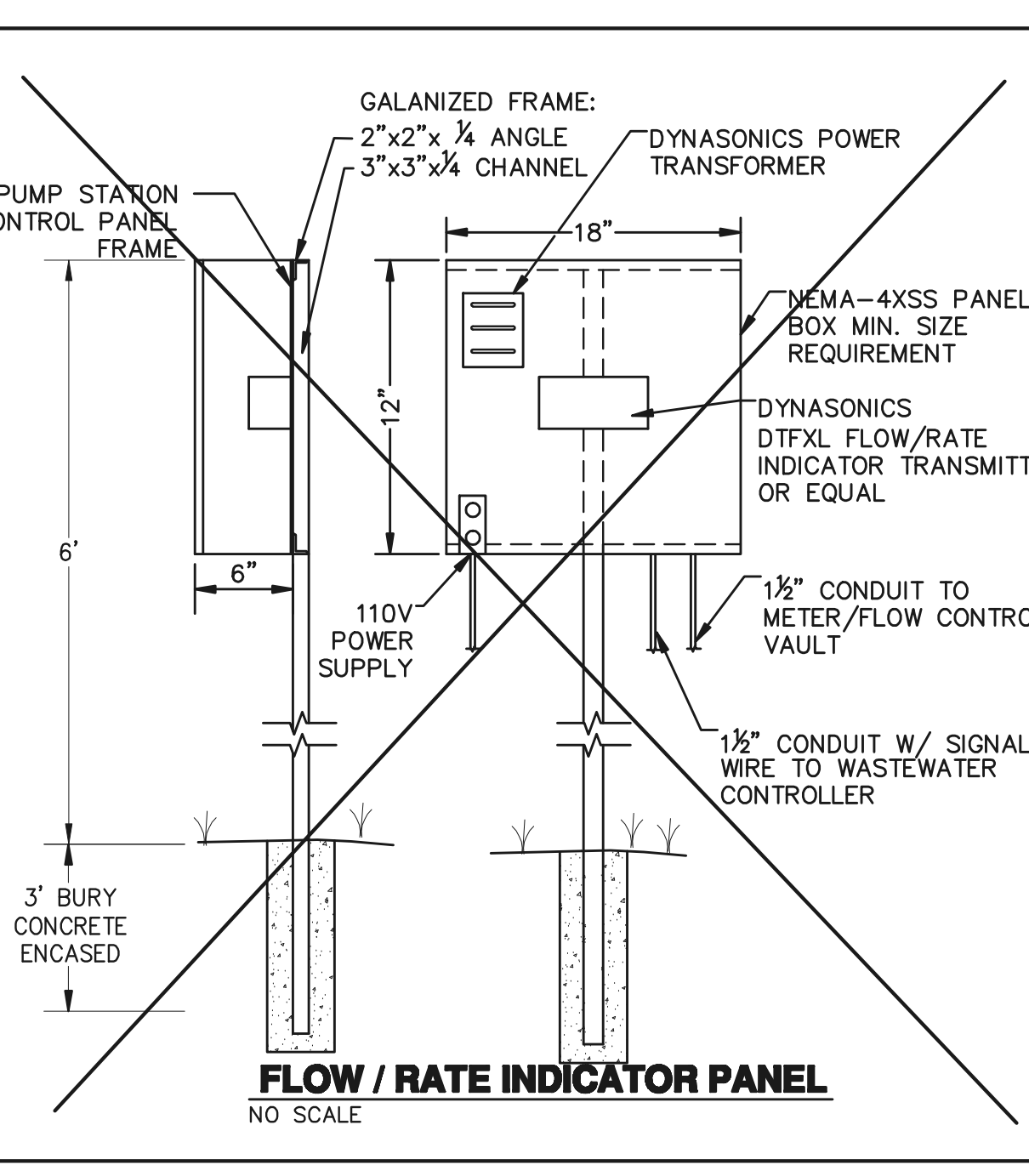
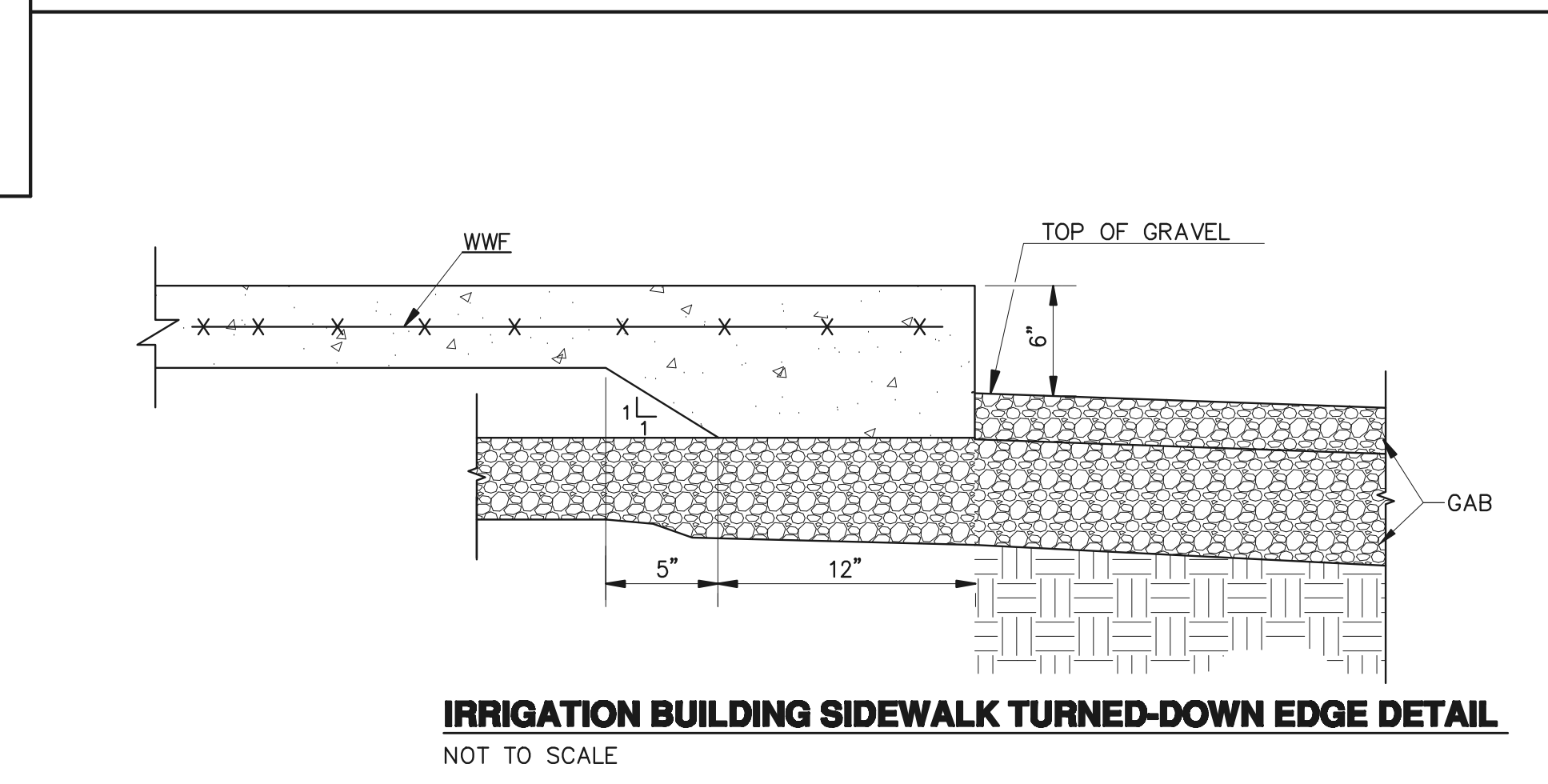
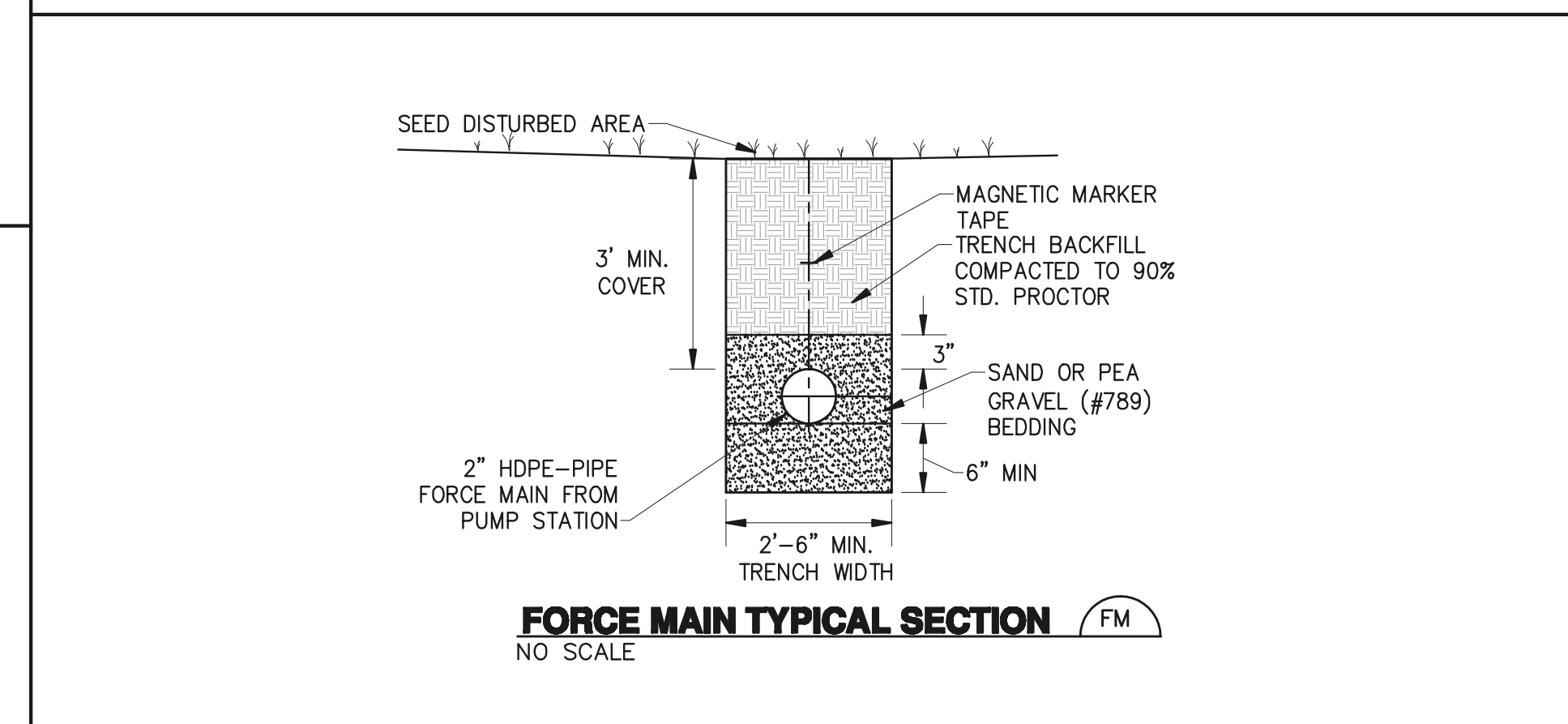
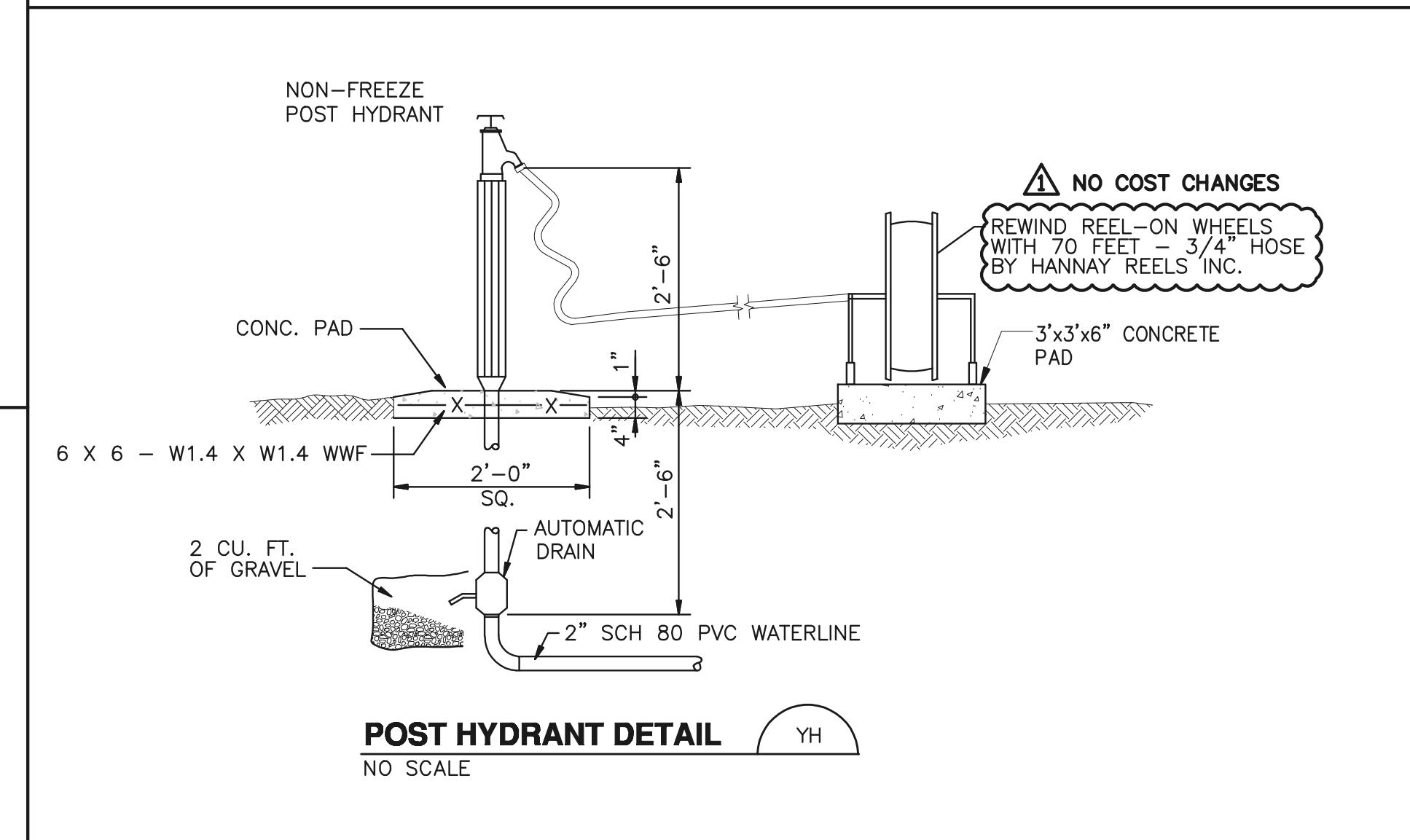
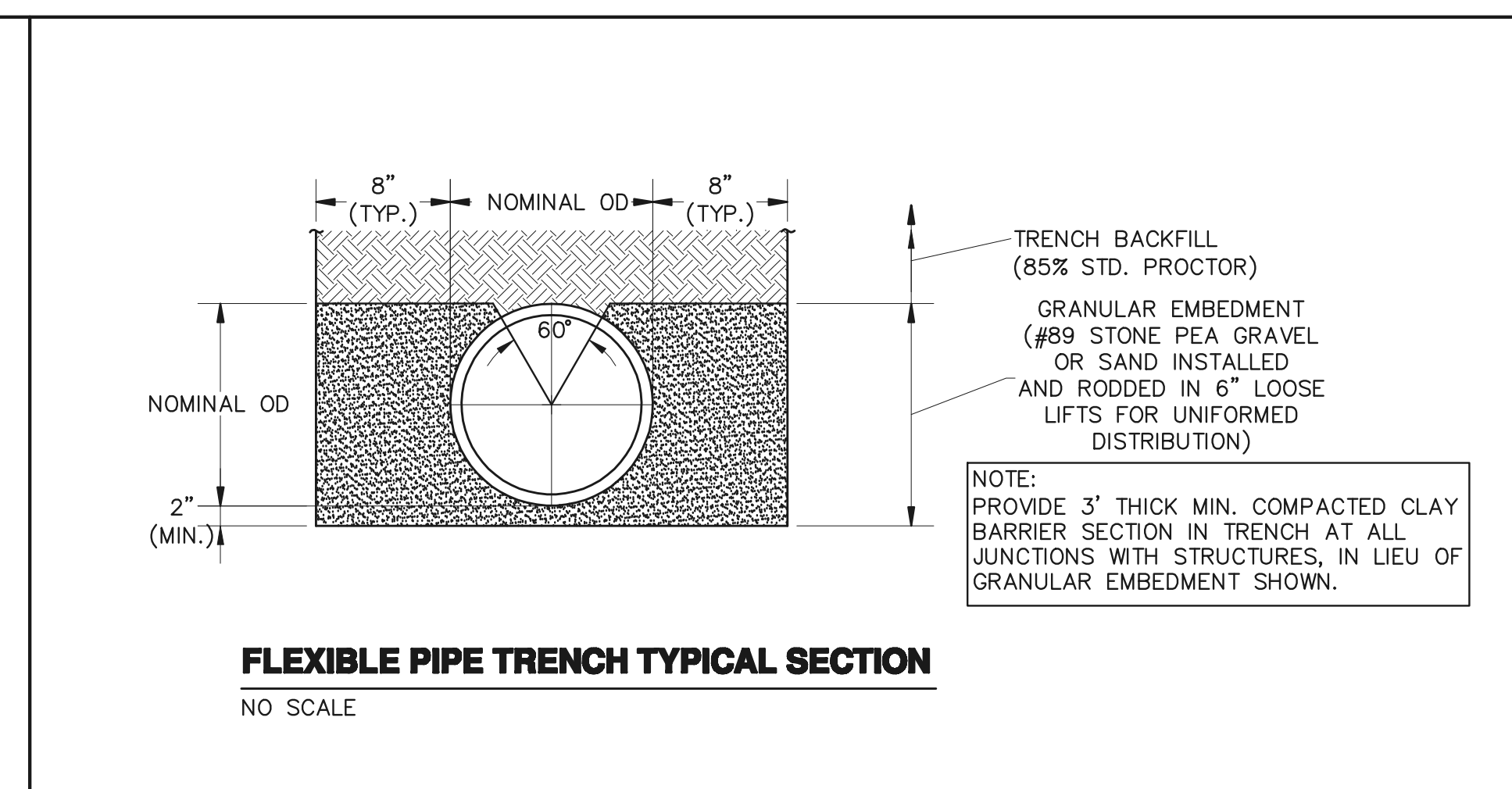
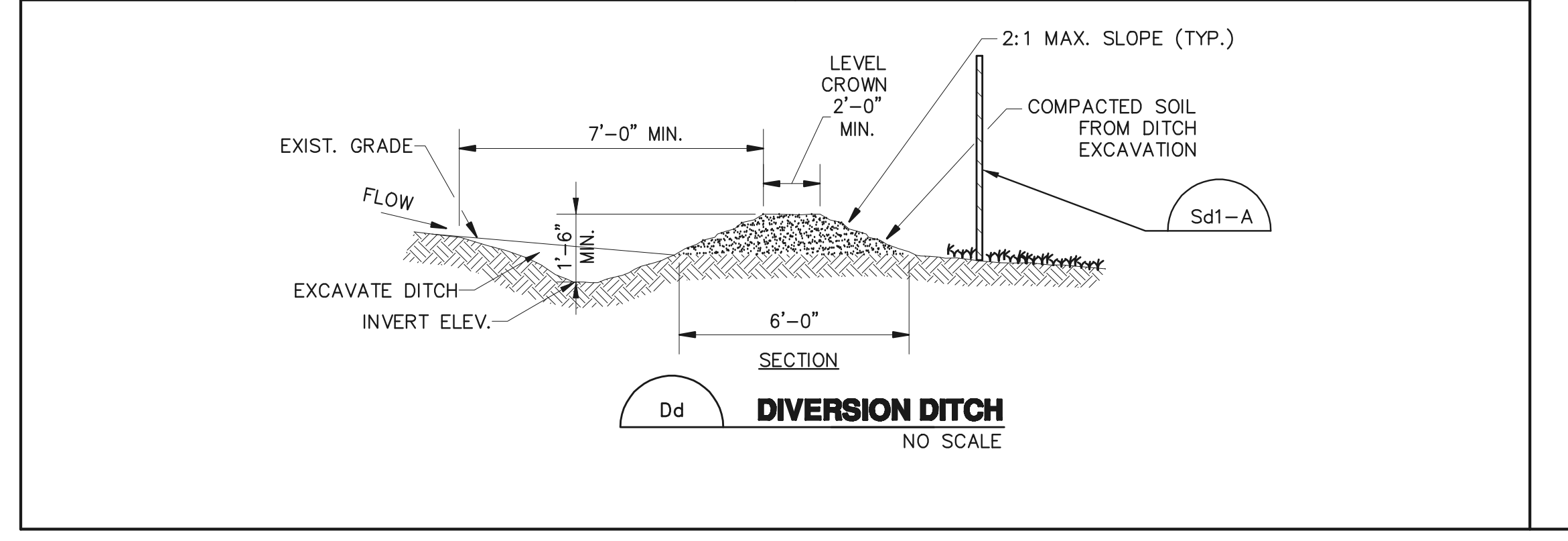
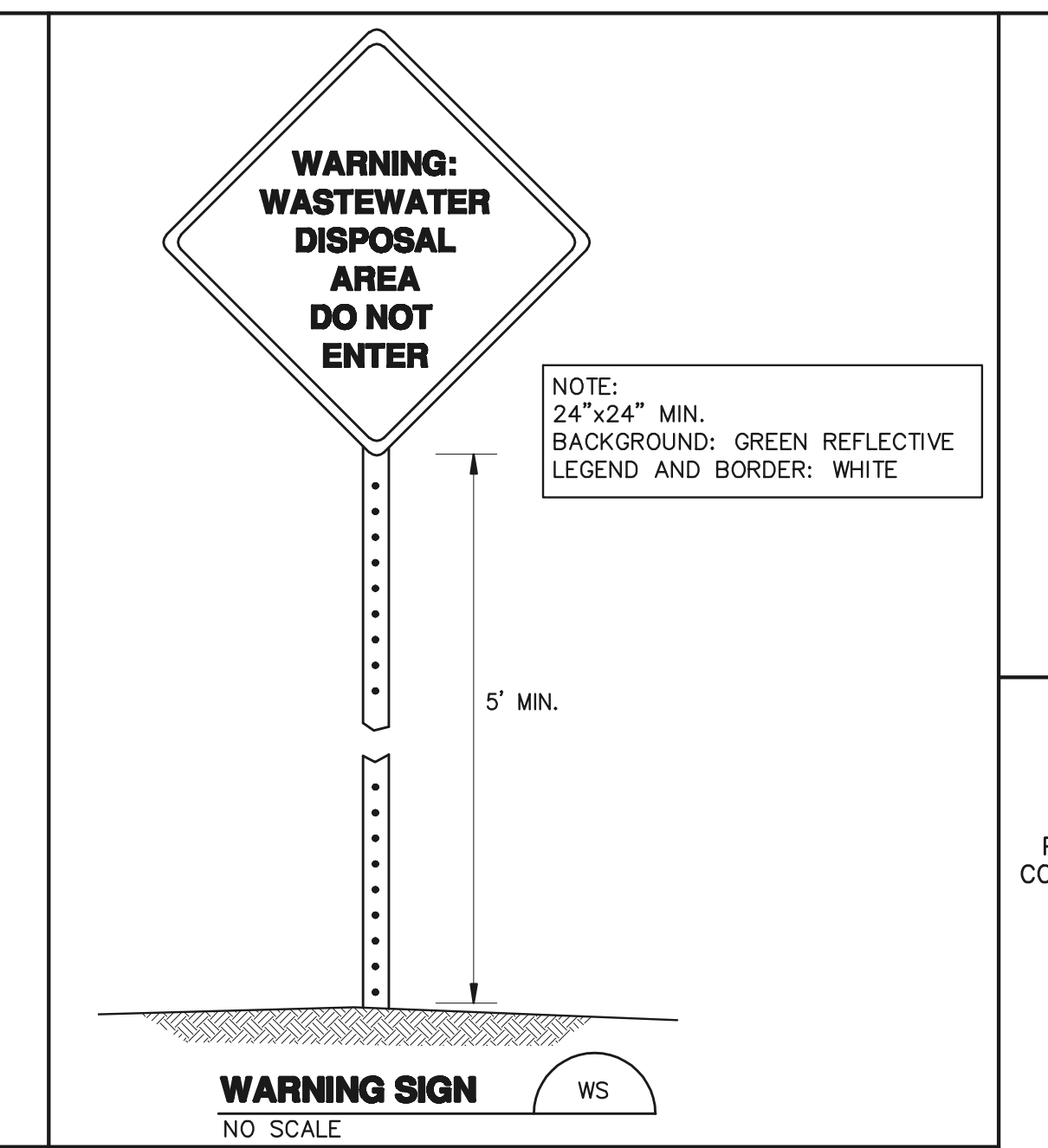
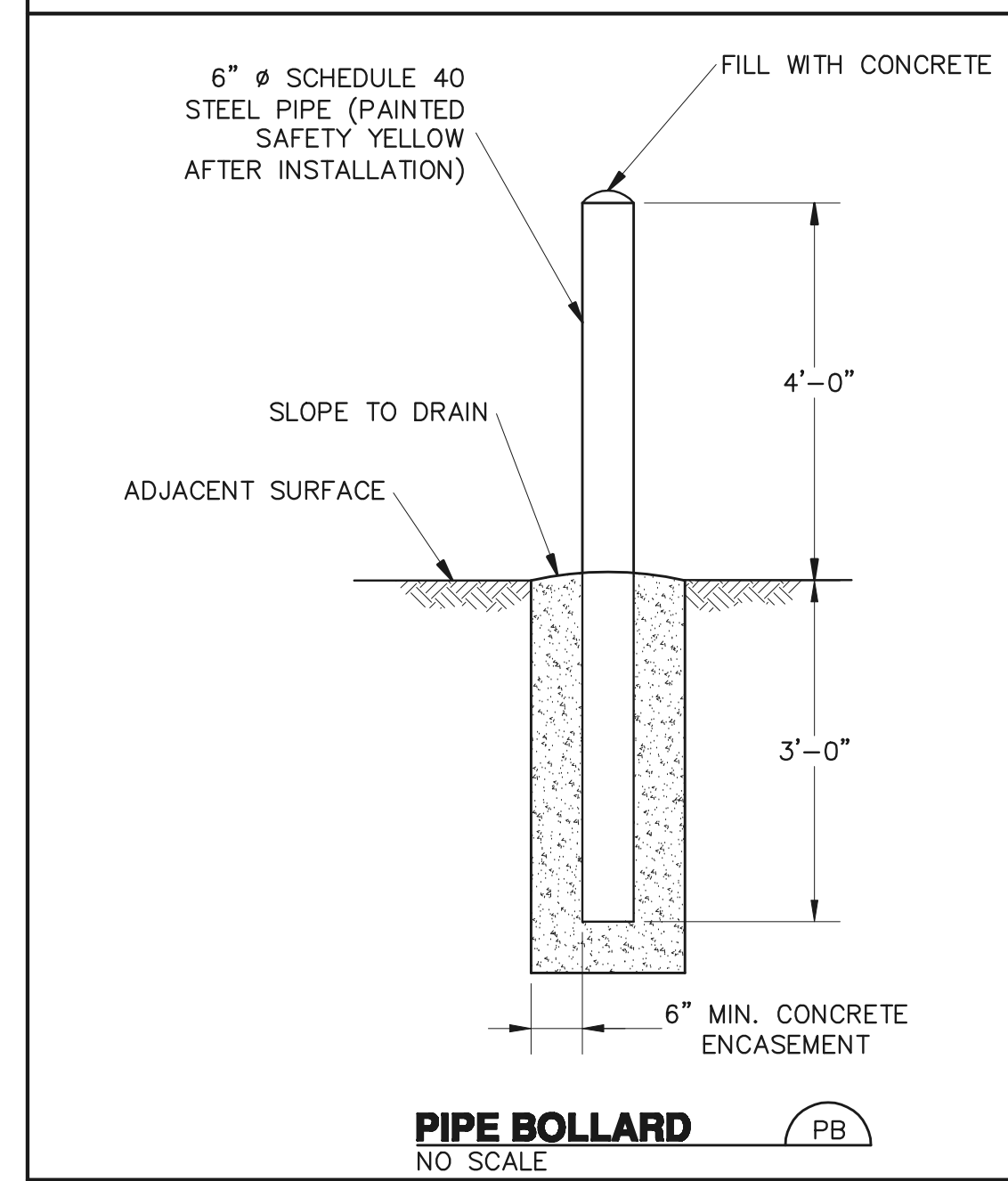
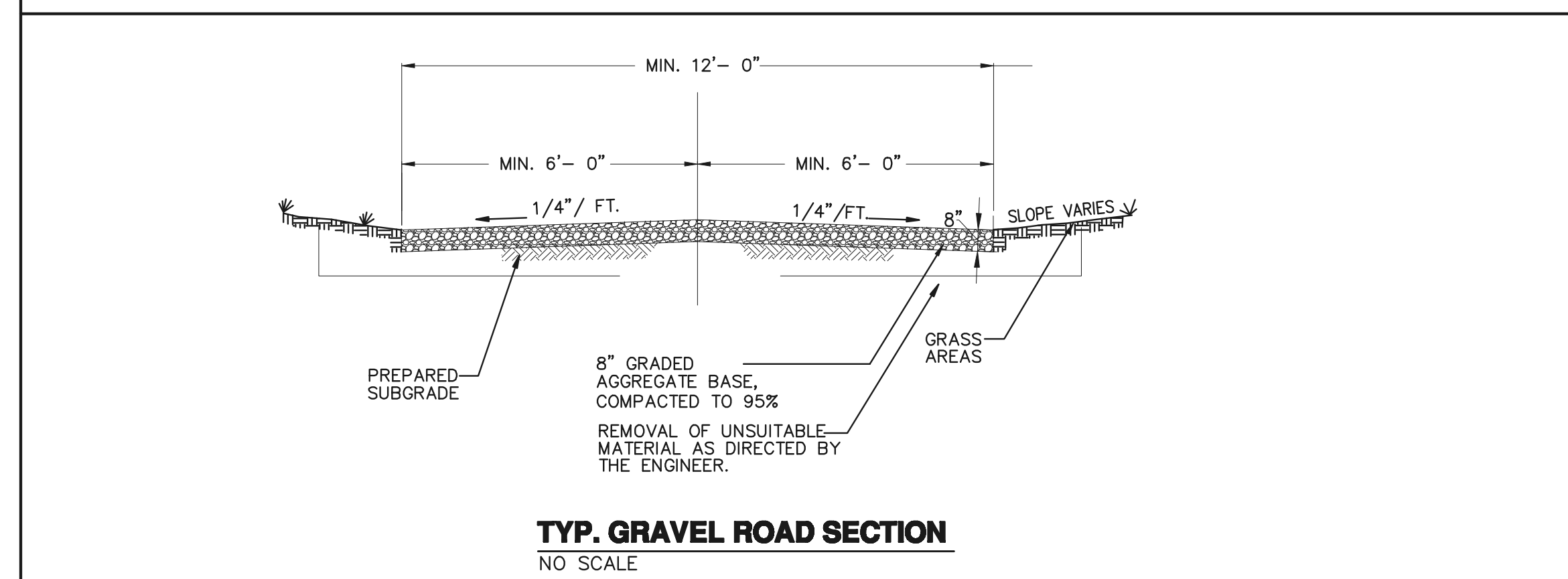
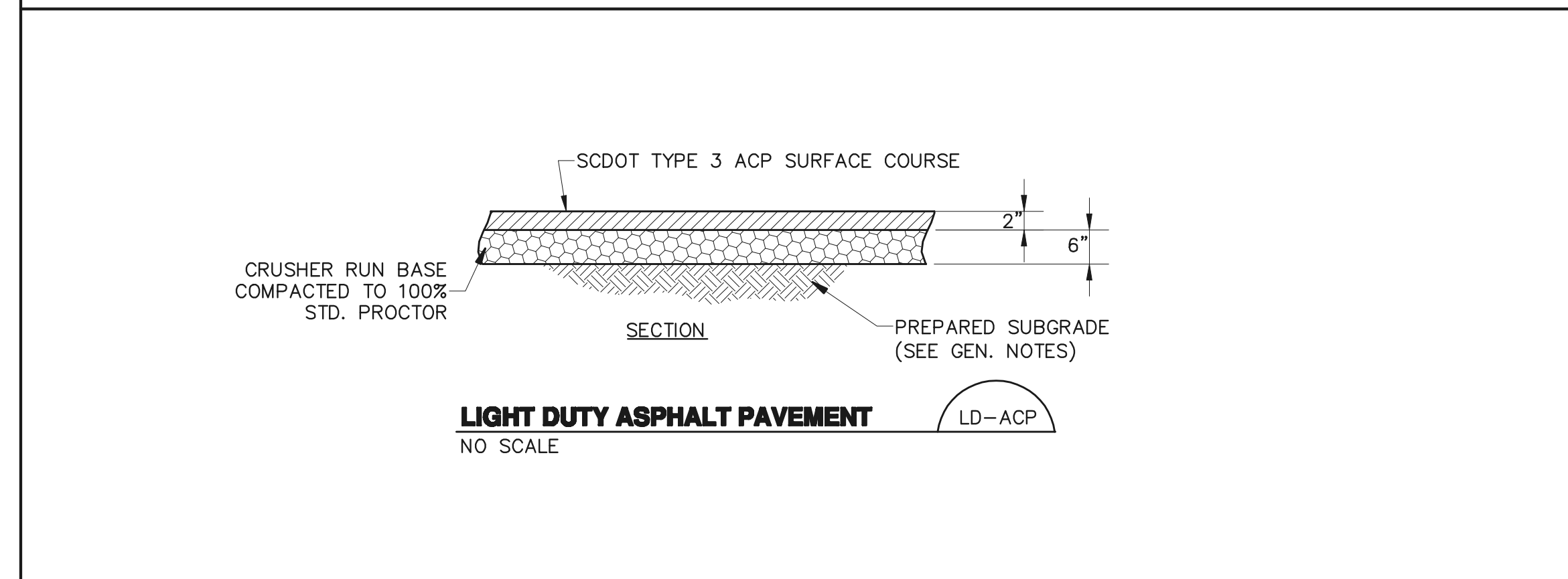
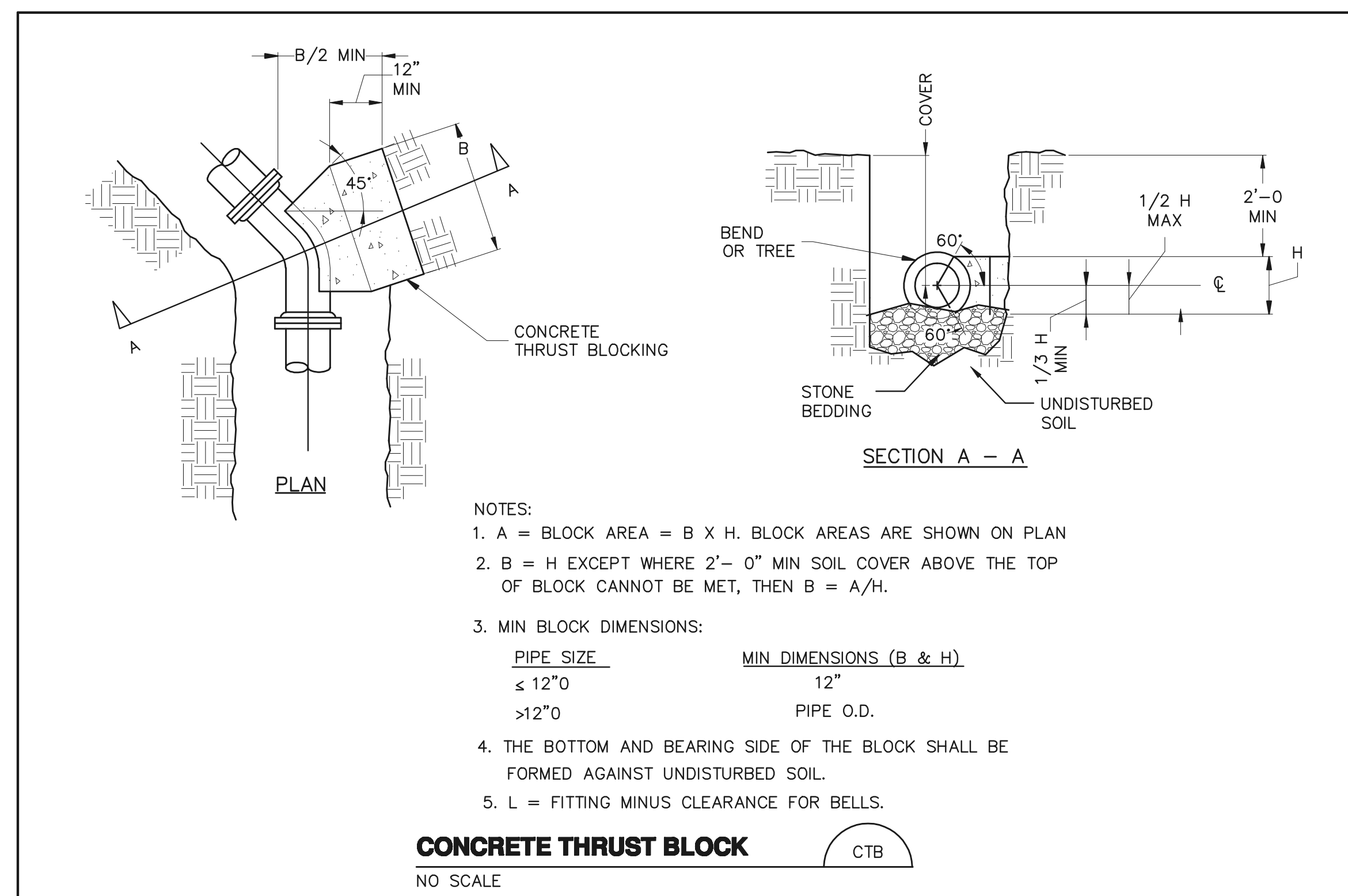
ISSUE: ISSUED FOR CONSTRUCTION
DATE: 02/08/07
PROJECT NO: 070-008
CAD DWG FILE: SS-1.dwg
DRAWN BY: KJK
CHECKED BY: GAJ
SHEET TITLE
OVERALL FINAL SITE PLAN

403 CD **SS-1**

*****CAUTION*****

PALMETTO UTILITY PROTECTION SERVICE
3 DAYS BEFORE DIGGING CALL TOLL FREE 1-800-952-1083
A ONE CALL SYSTEM FOR COMMUNITY AND JOB SAFETY.

***** CAUTION *****
THE UNDERGROUND UTILITIES SHOWN HAVE BEEN LOCATED FROM FIELD SURVEY INFORMATION AND EXISTING DRAWINGS. THE ENGINEER MAKES NO GUARANTEE THAT THE UNDERGROUND UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA. OTHER IN SERVICES OF REMEDIATION. THE ENGINEER FURTHER DOES NOT WARRANT THAT THE UNDERGROUND UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED. THE ENGINEER HAS NOT PHYSICALLY LOCATED THE UNDERGROUND UTILITIES.



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PROFESSIONAL ENGINEER
SOUTH CAROLINA
No. 10530

PROFESSIONAL ENGINEER
SOUTH CAROLINA
No. 10515

ON-SITE WASTEWATER SYSTEM
FOR
NEW RALPH CHANDLER MIDDLE SCHOOL AT FORK SHOALS
SIMPSONVILLE, SOUTH CAROLINA

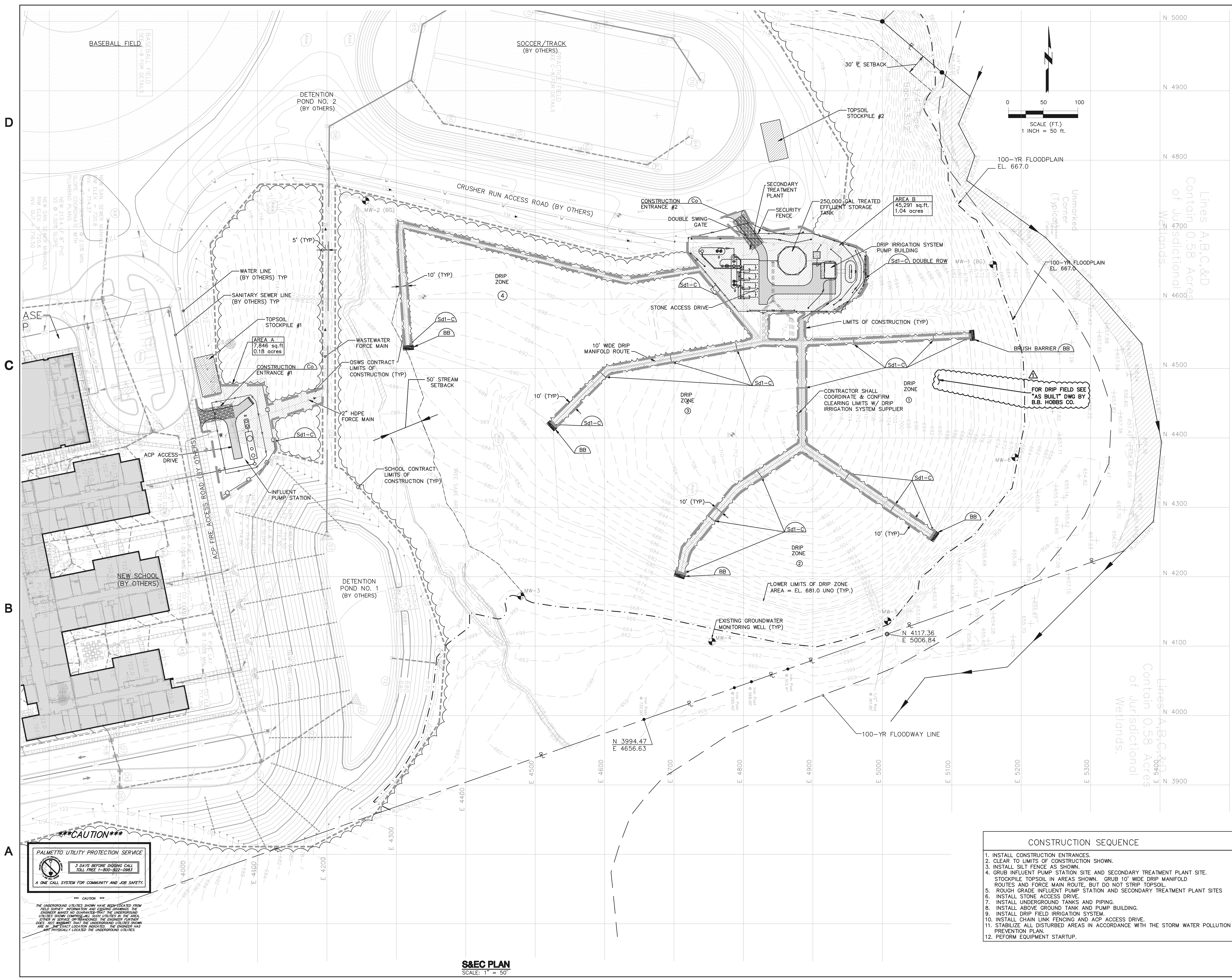
GREENVILLE COUNTY SCHOOLS

DATE	REV	DESCRIPTION
06/03/07	0	ISSUED FOR CONSTRUCTION
08/23/08	1	AS-BUILT

ISSUE: ISSUED FOR CONSTRUCTION

DATE: 02/08/07
PROJECT NO: 070-009
CAD DWG FILE: SS-11.dwg
DRAWN BY: KJK
CHECKED BY: GAJ
SHEET TITLE: MISCELLANEOUS DETAILS

403 CD **SS-11**



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Gregory J. Hobbs
Professional Engineer
No. 10530
State of South Carolina

ON-SITE WASTEWATER SYSTEM
FOR
NEW RALPH CHANDLER MIDDLE SCHOOL AT FORK SHOALS
SIMPSONVILLE, SOUTH CAROLINA



GREENVILLE COUNTY SCHOOLS

DATE	REV	DESCRIPTION
05/03/07	0	ISSUED FOR CONSTRUCTION
05/23/08	1	AS-BUILT

ISSUE: ISSUED FOR CONSTRUCTION
DATE: 02/09/07
PROJECT NO: 070-008
CAD DWG FILE: 88-12.DWG
DRAWN BY: KJK
CHECKED BY: GAJ

SHEET TITLE
S&E PLAN

403 CD **SS-12**

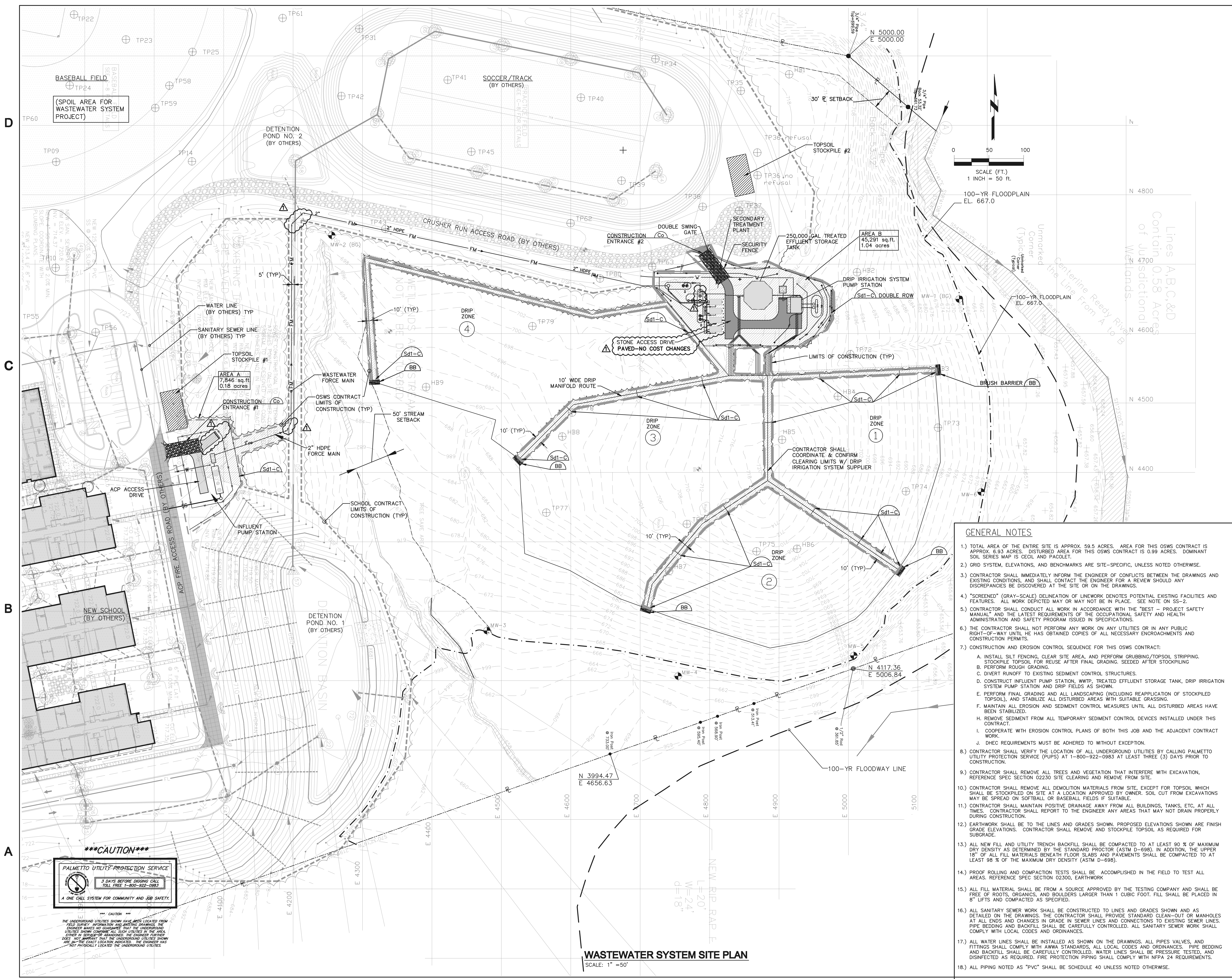
- CONSTRUCTION SEQUENCE**
1. INSTALL CONSTRUCTION ENTRANCES.
 2. CLEAR TO LIMITS OF CONSTRUCTION SHOWN.
 3. INSTALL SILT FENCE AS SHOWN.
 4. GRUB INFLUENT PUMP STATION SITE AND SECONDARY TREATMENT PLANT SITE. STOCKPILE TOPSOIL IN AREAS SHOWN. GRUB 10' WIDE DRIP MANIFOLD ROUTES AND FORCE MAIN ROUTE, BUT DO NOT STRIP TOPSOIL.
 5. ROUGH GRADE INFLUENT PUMP STATION AND SECONDARY TREATMENT PLANT SITES.
 6. INSTALL STONE ACCESS DRIVE.
 7. INSTALL UNDERGROUND TANKS AND PIPING.
 8. INSTALL ABOVE GROUND TANK AND PUMP BUILDING.
 9. INSTALL DRIP FIELD IRRIGATION SYSTEM.
 10. INSTALL CHAIN LINK FENCING AND ACP ACCESS DRIVE.
 11. STABILIZE ALL DISTURBED AREAS IN ACCORDANCE WITH THE STORM WATER POLLUTION PREVENTION PLAN.
 12. PERFORM EQUIPMENT STARTUP.

*****CAUTION*****

PALMETTO UTILITY PROTECTION SERVICE
3 DAYS BEFORE DIGGING CALL TOLL FREE 1-800-962-0983
A ONE CALL SYSTEM FOR COMMUNITY AND JOB SAFETY.

*** CAUTION ***
THE UNDERGROUND UTILITIES SHOWN HAVE BEEN LOCATED FROM FIELD SURVEY INFORMATION AND SHOULD BE TREATED AS SHOWN. THE ENGINEER MAKES NO GUARANTEE AS TO THE ACCURACY OF THE INFORMATION EITHER IN SERVICE OR OTHERWISE. THE ENGINEER FURTHER NOTES THAT THE EXACT LOCATION OF THE UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED. THE ENGINEER HAS NOT PHYSICALLY LOCATED THE UNDERGROUND UTILITIES.

S&E PLAN
SCALE: 1" = 50'



- GENERAL NOTES**
- TOTAL AREA OF THE ENTIRE SITE IS APPROX. 59.5 ACRES. AREA FOR THIS OSWS CONTRACT IS APPROX. 6.93 ACRES. DISTURBED AREA FOR THIS OSWS CONTRACT IS 0.99 ACRES. DOMINANT SOIL SERIES MAP IS OCEIL AND PACOLET.
 - GRID SYSTEM, ELEVATIONS, AND BENCHMARKS ARE SITE-SPECIFIC, UNLESS NOTED OTHERWISE.
 - CONTRACTOR SHALL IMMEDIATELY INFORM THE ENGINEER OF CONFLICTS BETWEEN THE DRAWINGS AND EXISTING CONDITIONS, AND SHALL CONTACT THE ENGINEER FOR A REVIEW SHOULD ANY DISCREPANCIES BE DISCOVERED AT THE SITE OR ON THE DRAWINGS.
 - "SCREENED" (GRAY-SCALE) DELINEATION OF LINEWORK DENOTES POTENTIAL EXISTING FACILITIES AND FEATURES. ALL WORK DEPICTED MAY OR MAY NOT BE IN PLACE. SEE NOTE ON SS-2.
 - CONTRACTOR SHALL CONDUCT ALL WORK IN ACCORDANCE WITH THE "BEST" - PROJECT SAFETY MANUAL AND THE LATEST REQUIREMENTS OF THE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION AND SAFETY PROGRAM ISSUED IN SPECIFICATIONS.
 - THE CONTRACTOR SHALL NOT PERFORM ANY WORK ON ANY UTILITIES OR IN ANY PUBLIC RIGHT-OF-WAY UNTIL HE HAS OBTAINED COPIES OF ALL NECESSARY ENCROACHMENTS AND CONSTRUCTION PERMITS.
 - CONSTRUCTION AND EROSION CONTROL SEQUENCE FOR THIS OSWS CONTRACT:
 - INSTALL SILT FENCING, CLEAR SITE AREA, AND PERFORM GRUBBING/TOPSOIL STRIPPING.
 - STOCKPILE TOPSOIL FOR REUSE AFTER FINAL GRADING. SEEDED AFTER STOCKPILING.
 - PERFORM ROUGH GRADING.
 - DIVERT RUNOFF TO EXISTING SEDIMENT CONTROL STRUCTURES.
 - CONSTRUCT INFLUENT PUMP STATION, WWTP, TREATED EFFLUENT STORAGE TANK, DRIP IRRIGATION SYSTEM PUMP STATION AND DRIP FIELDS AS SHOWN.
 - PERFORM FINAL GRADING AND ALL LANDSCAPING (INCLUDING REAPPLICATION OF STOCKPILED TOPSOIL), AND STABILIZE ALL DISTURBED AREAS WITH SUITABLE GRASSING.
 - MAINTAIN ALL EROSION AND SEDIMENT CONTROL MEASURES UNTIL ALL DISTURBED AREAS HAVE BEEN STABILIZED.
 - REMOVE SEDIMENT FROM ALL TEMPORARY SEDIMENT CONTROL DEVICES INSTALLED UNDER THIS CONTRACT.
 - COOPERATE WITH EROSION CONTROL PLANS OF BOTH THIS JOB AND THE ADJACENT CONTRACT WORK.
 - DHEC REQUIREMENTS MUST BE ADHERED TO WITHOUT EXCEPTION.
 - CONTRACTOR SHALL VERIFY THE LOCATION OF ALL UNDERGROUND UTILITIES BY CALLING PALMETTO UTILITY PROTECTION SERVICE (PUPS) AT 1-800-922-0983 AT LEAST THREE (3) DAYS PRIOR TO CONSTRUCTION.
 - CONTRACTOR SHALL REMOVE ALL TREES AND VEGETATION THAT INTERFERE WITH EXCAVATION, REFERENCE SPEC SECTION 02230 SITE CLEARING AND REMOVE FROM SITE.
 - CONTRACTOR SHALL REMOVE ALL DEMOLITION MATERIALS FROM SITE, EXCEPT FOR TOPSOIL WHICH SHALL BE STOCKPILED ON SITE AT A LOCATION APPROVED BY OWNER. SOIL CUT FROM EXCAVATIONS MAY BE SPREAD ON SOFTBALL OR BASEBALL FIELDS IF SUITABLE.
 - CONTRACTOR SHALL MAINTAIN POSITIVE DRAINAGE AWAY FROM ALL BUILDINGS, TANKS, ETC. AT ALL TIMES. CONTRACTOR SHALL REPORT TO THE ENGINEER ANY AREAS THAT MAY NOT DRAIN PROPERLY DURING CONSTRUCTION.
 - EARTHWORK SHALL BE TO THE LINES AND GRADES SHOWN. PROPOSED ELEVATIONS SHOWN ARE FINISH GRADE ELEVATIONS. CONTRACTOR SHALL REMOVE AND STOCKPILE TOPSOIL AS REQUIRED FOR SUBGRADE.
 - ALL NEW FILL AND UTILITY TRENCH BACKFILL SHALL BE COMPACTED TO AT LEAST 90 % OF MAXIMUM DRY DENSITY AS DETERMINED BY THE STANDARD PROCTOR (ASTM D-698). IN ADDITION, THE UPPER 18" OF ALL FILL MATERIALS BENEATH FLOOR SLABS AND PAVEMENTS SHALL BE COMPACTED TO AT LEAST 98 % OF THE MAXIMUM DRY DENSITY (ASTM D-698).
 - PROOF ROLLING AND COMPACTION TESTS SHALL BE ACCOMPLISHED IN THE FIELD TO TEST ALL AREAS. REFERENCE SPEC SECTION 02300, EARTHWORK
 - ALL FILL MATERIAL SHALL BE FROM A SOURCE APPROVED BY THE TESTING COMPANY AND SHALL BE FREE OF ROOTS, ORGANICS, AND BOULDERS LARGER THAN 1 CUBIC FOOT. FILL SHALL BE PLACED IN 8" LIFTS AND COMPACTED AS SPECIFIED.
 - ALL SANITARY SEWER WORK SHALL BE CONSTRUCTED TO LINES AND GRADES SHOWN AND AS DETAILED ON THE DRAWINGS. THE CONTRACTOR SHALL PROVIDE STANDARD CLEAN-OUT OR MANHOLES AT ALL ENDS AND CHANGES IN GRADE IN SEWER LINES AND CONNECTIONS TO EXISTING SEWER LINES. PIPE BEDDING AND BACKFILL SHALL BE CAREFULLY CONTROLLED. ALL SANITARY SEWER WORK SHALL COMPLY WITH LOCAL CODES AND ORDINANCES.
 - ALL WATER LINES SHALL BE INSTALLED AS SHOWN ON THE DRAWINGS. ALL PIPES, VALVES, AND FITTINGS SHALL COMPLY WITH ANWA STANDARDS. ALL LOCAL CODES AND ORDINANCES. PIPE BEDDING AND BACKFILL SHALL BE CAREFULLY CONTROLLED. WATER LINES SHALL BE PRESSURE TESTED, AND DISINFECTED AS REQUIRED. FIRE PROTECTION PIPING SHALL COMPLY WITH NFPA 24 REQUIREMENTS.
 - ALL PIPING NOTED AS "PVC" SHALL BE SCHEDULE 40 UNLESS NOTED OTHERWISE.

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Professional Engineer Seal for **DAVID R. CARROLL**, No. 10530, State of South Carolina. Also includes a seal for **CALIBER ENGINEERING CONSULTANTS LLC**, No. 00919, State of South Carolina.

ON-SITE WASTEWATER SYSTEM
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SIMPSONVILLE, SOUTH CAROLINA



GREENVILLE COUNTY SCHOOLS

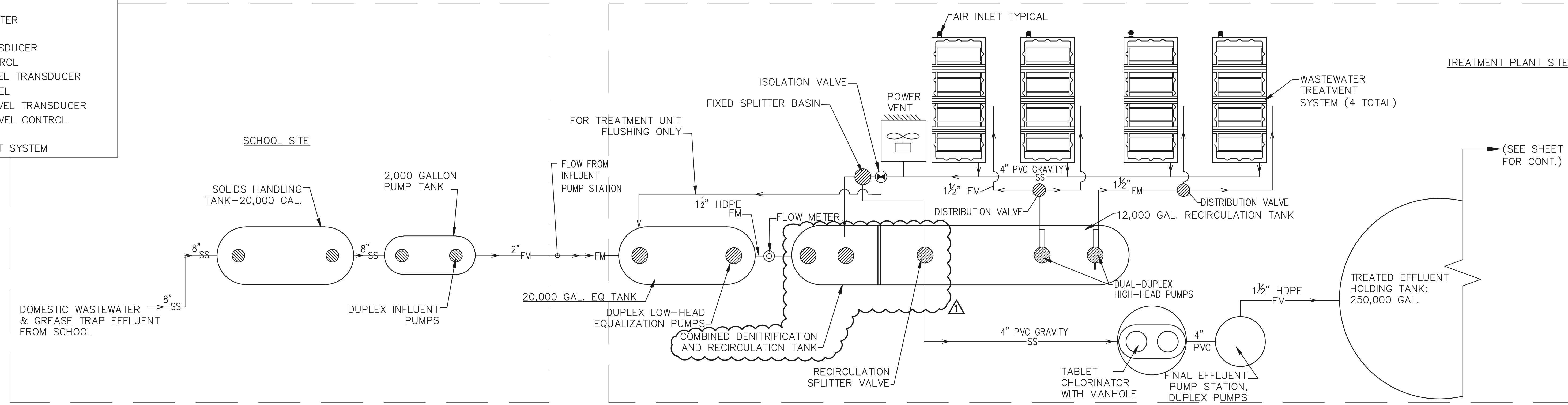
DATE	REV	DESCRIPTION
05/03/07	0	ISSUED FOR CONSTRUCTION
06/23/08	1	AS-BUILT

ISSUE: ISSUED FOR CONSTRUCTION
DATE: 02/09/07
PROJECT NO: 070-003
CAD DWG FILE: SS-3.dwg
DRAWN BY: KJK
CHECKED BY: GAJ
SHEET TITLE

WASTEWATER SYSTEM SITE PLAN

403 CD **SS-3**

- = EQUIPMENT TAG
- LIT = LEVEL INDICATOR TRANSMITTER
- LE = LEVEL ELEMENT
- LSLL = LEVEL SWITCH LOW LEVEL ALARM
- LS-1 = LEVEL SWITCH LEAD RUN-TIMER RUN
- LS-2 = LEVEL SWITCH LAG RUN
- LSH = LEVEL SWITCH HIGH LEVEL ALARM
- PI = PRESSURE INDICATOR - 0-50 PSI WITH SNUBBER
- HOA = HAND-OFF-AUTOMATIC
- FIT = FLOW INDICATOR/TRANSMITTER
- FE = FLOW ELEMENT
- PTLT = PUMP TANK LEVEL TRANSDUCER
- PTPC = PUMP TANK PUMP CONTROL
- EQLT = EQUALIZATION TANK LEVEL TRANSDUCER
- EQLC = EQUALIZATION TANK LEVEL
- RTL = RECIRCULATION TANK LEVEL TRANSDUCER
- RTLC = RECIRCULATION TANK LEVEL CONTROL
- EPC = EFFLUENT PUMP CONTROL
- WWS = WASTEWATER TREATMENT SYSTEM



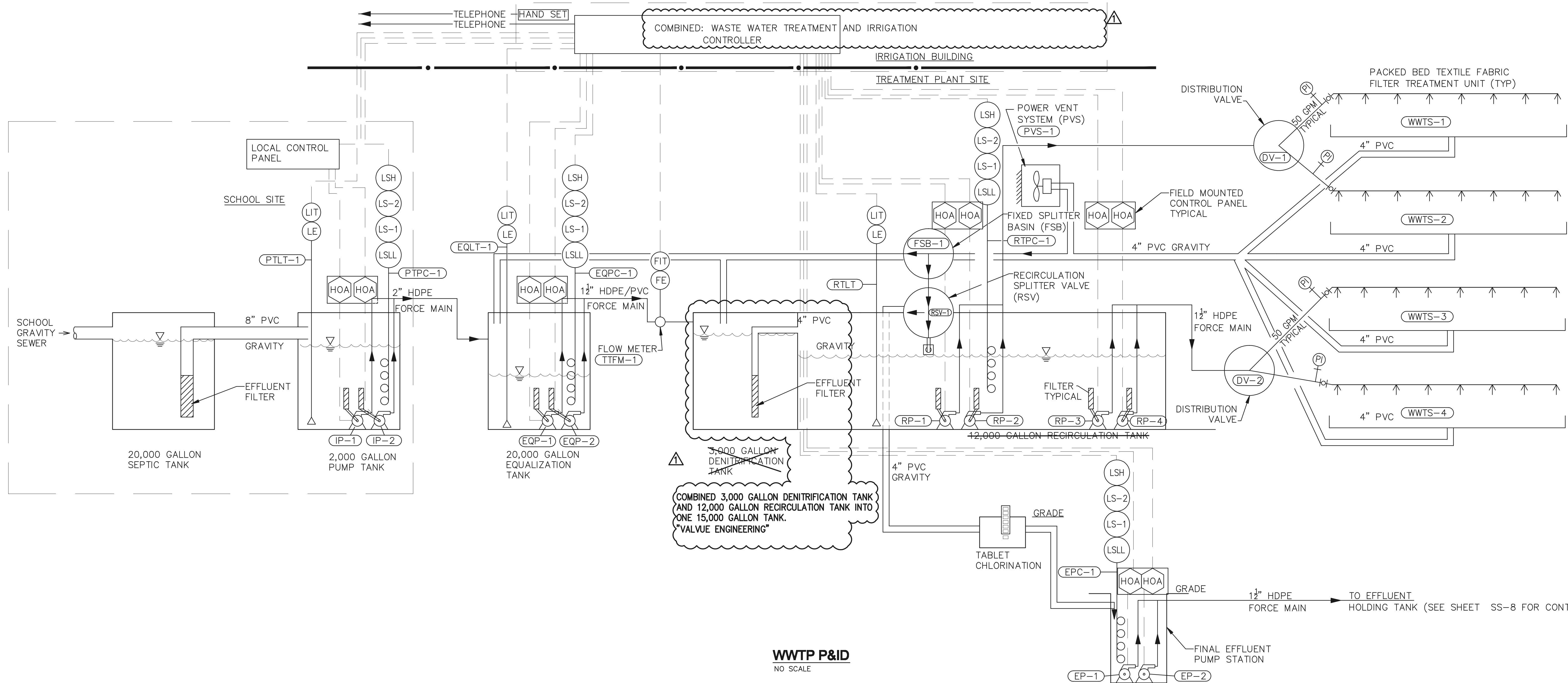
WWTP PROCESS FLOW DIAGRAM
NO SCALE

D

C

B

A



WWTP P&ID
NO SCALE

1

2

3

4

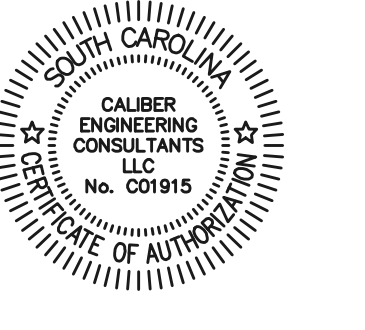
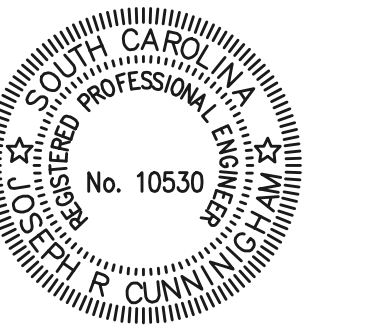
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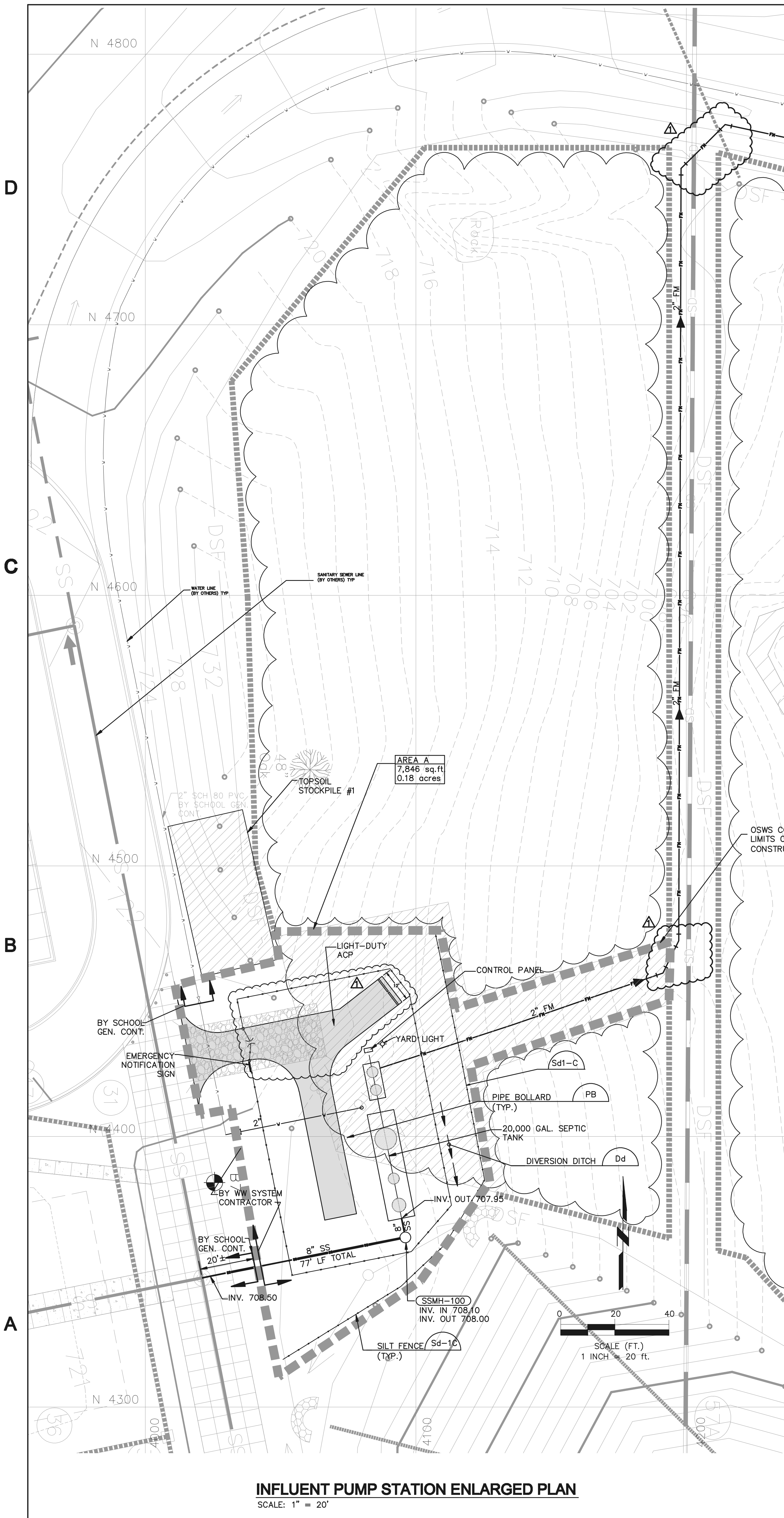


GREENVILLE COUNTY SCHOOLS

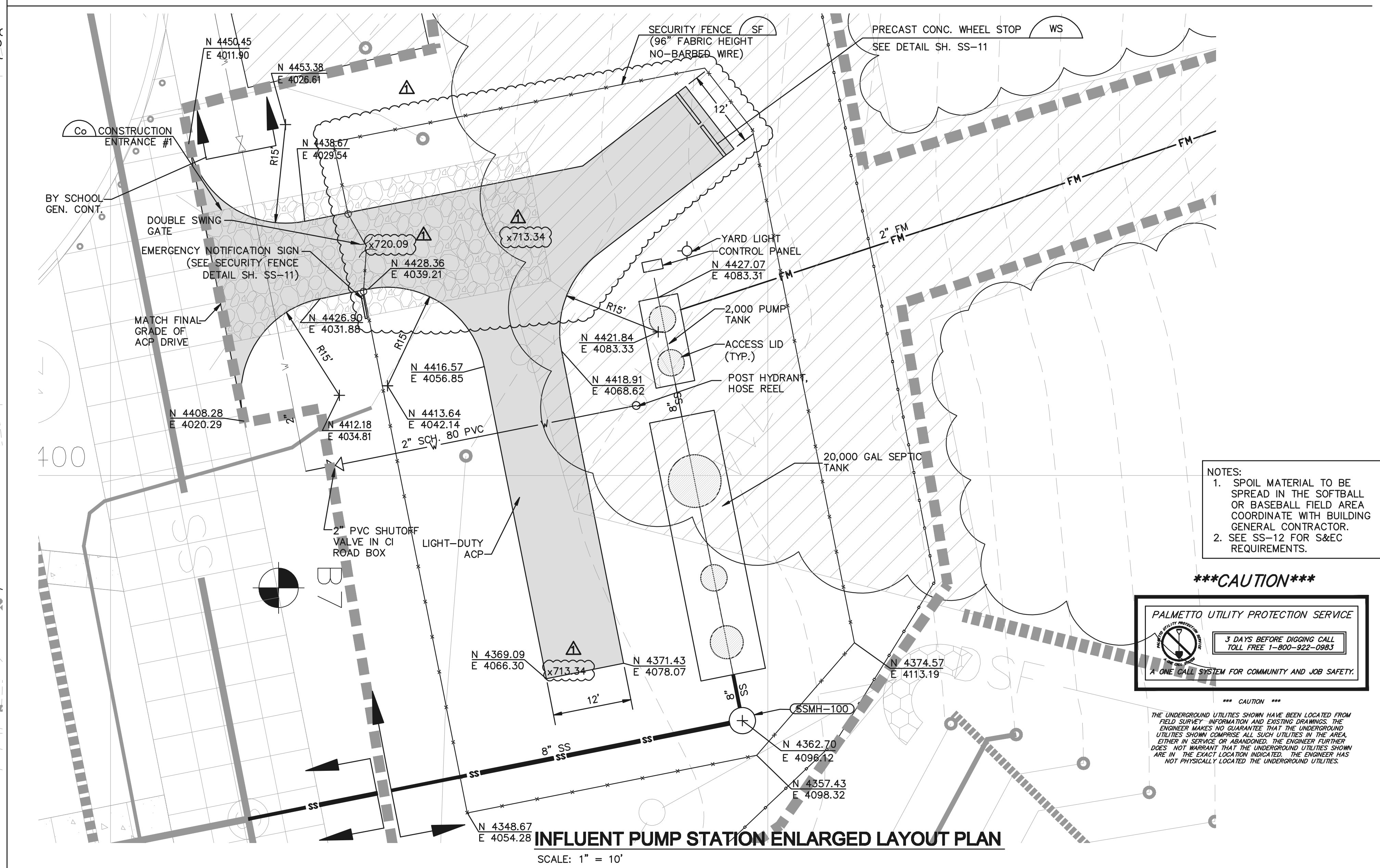
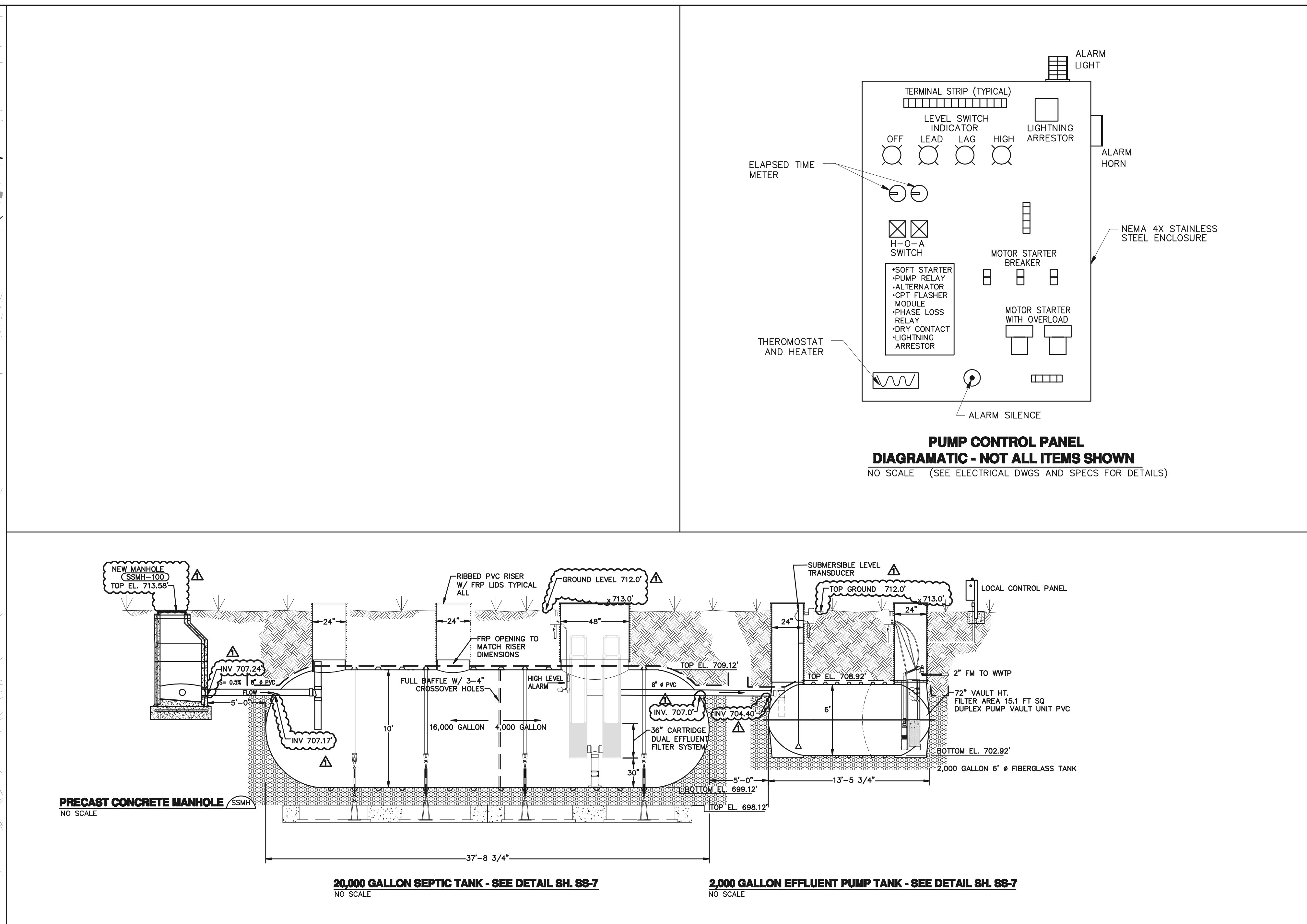
DATE	REV	DESCRIPTION
06/03/07	0	ISSUED FOR CONSTRUCTION
09/25/08	1	AS-BUILT

ISSUE: ISSUED FOR CONSTRUCTION
DATE: 02/08/07
PROJECT NO: 070-003
CAD DWG FILE: SS-4.dwg
DRAWN BY: KLK
CHECKED BY: GAJ
SHEET TITLE
WWTP PROCESS FLOW DIAGRAM / P & ID

403
CD **SS-4**



INFLUENT PUMP STATION ENLARGED PLAN
SCALE: 1" = 20'



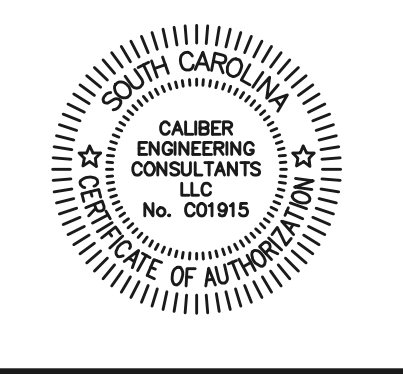
INFLUENT PUMP STATION ENLARGED LAYOUT PLAN
SCALE: 1" = 10'

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ON-SITE WASTEWATER SYSTEM

FOR
NEW RALPH CHANDLER MIDDLE SCHOOL AT FORK SHOALS
SIMPSONVILLE, SOUTH CAROLINA



GREENVILLE COUNTY SCHOOLS

DATE	REV	DESCRIPTION
05/03/07	0	ISSUED FOR CONSTRUCTION
08/22/08	1	AS-BUILT

ISSUE: ISSUED FOR CONSTRUCTION
DATE: 02/08/07
PROJECT NO: 070-009
CAD DWG FILE: SS-5.dwg
DRAWN BY: KLK
CHECKED BY: GAJ

SHEET TITLE
INFLUENT PUMP STATION ENLARGED PLAN AND DETAILS

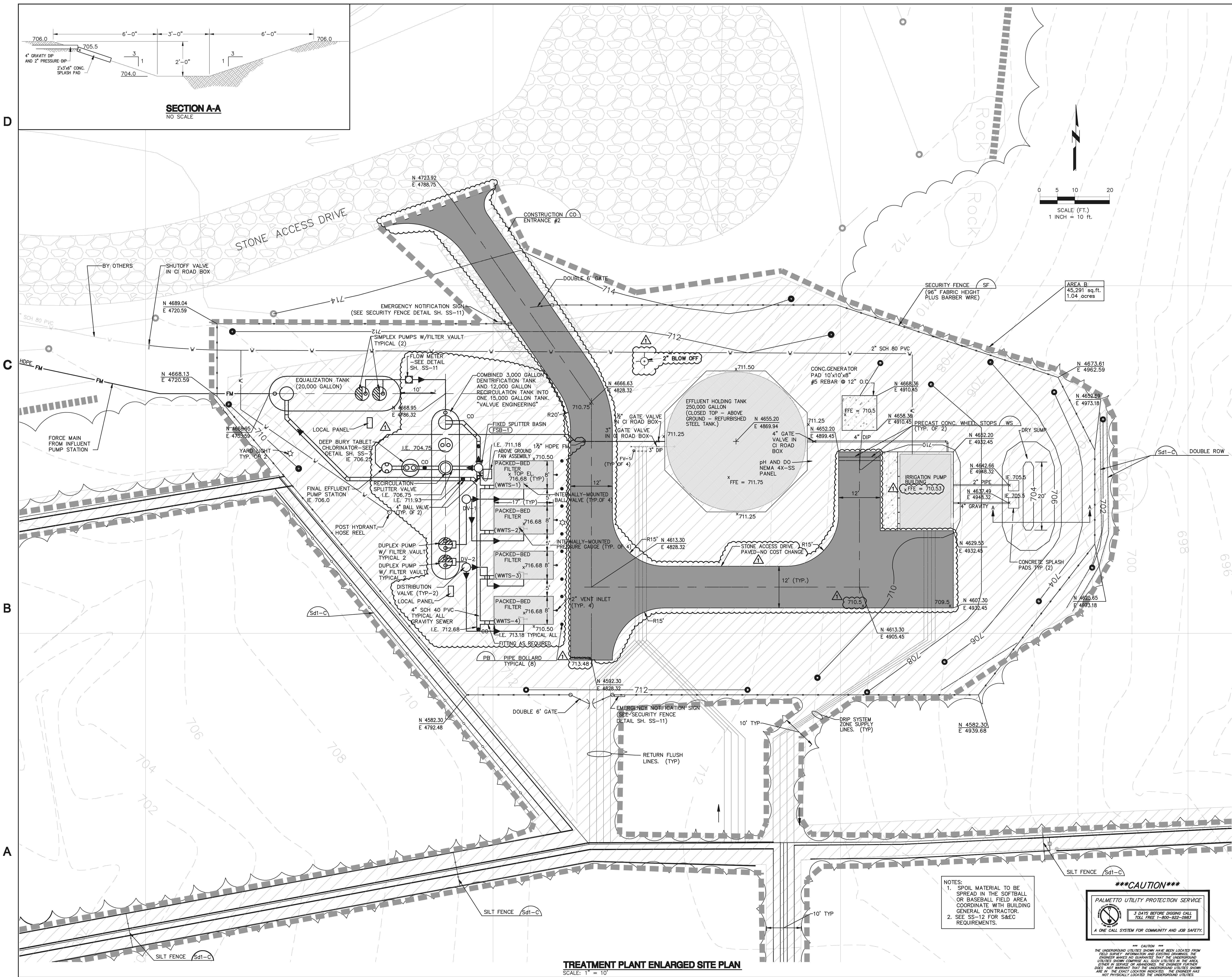
403 CD **SS-5**

- NOTES:
1. SPOIL MATERIAL TO BE SPREAD IN THE SOFTBALL OR BASEBALL FIELD AREA. COORDINATE WITH BUILDING GENERAL CONTRACTOR.
2. SEE SS-12 FOR S&C REQUIREMENTS.

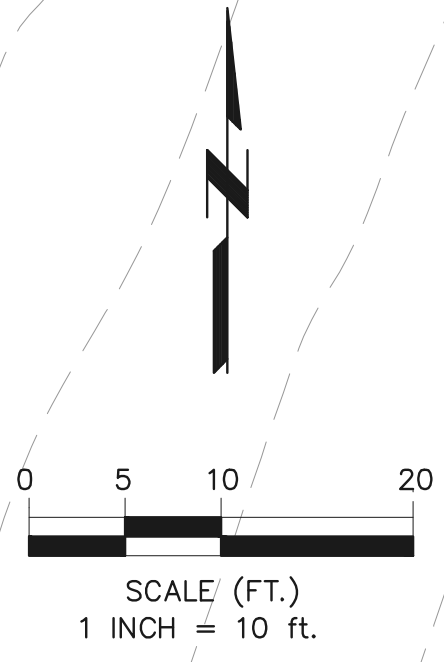
*****CAUTION*****

PALMETTO UTILITY PROTECTION SERVICE
3 DAYS BEFORE DIGGING CALL TOLL FREE 1-800-922-0983
A ONE CALL SYSTEM FOR COMMUNITY AND JOB SAFETY.

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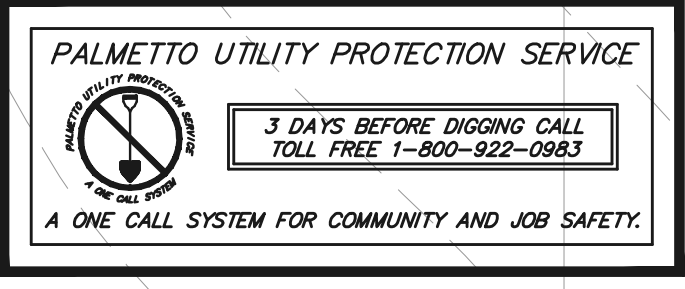


SECTION A-A
NO SCALE



AREA B
45,291 sq. ft.
1.04 acres

NOTES:
1. SPOIL MATERIAL TO BE SPREAD IN THE SOFTBALL OR BASEBALL FIELD AREA COORDINATE WITH BUILDING GENERAL CONTRACTOR.
2. SEE SS-12 FOR S&C REQUIREMENTS.



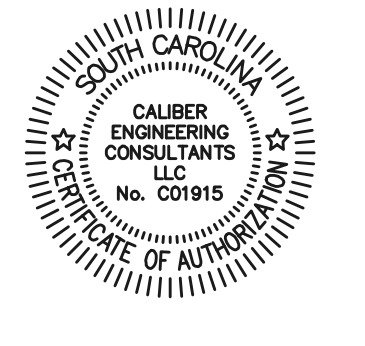
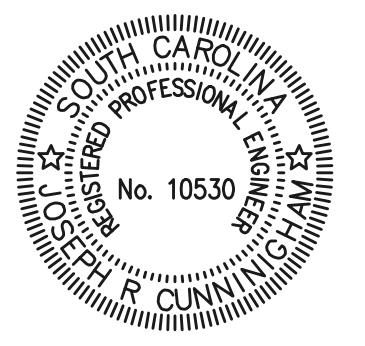
*** CAUTION ***
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TREATMENT PLANT ENLARGED SITE PLAN
SCALE: 1" = 10'

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ON-SITE WASTEWATER SYSTEM
FOR
NEW RALPH CHANDLER MIDDLE SCHOOL AT FORK SHOALS
SIMPSONVILLE, SOUTH CAROLINA

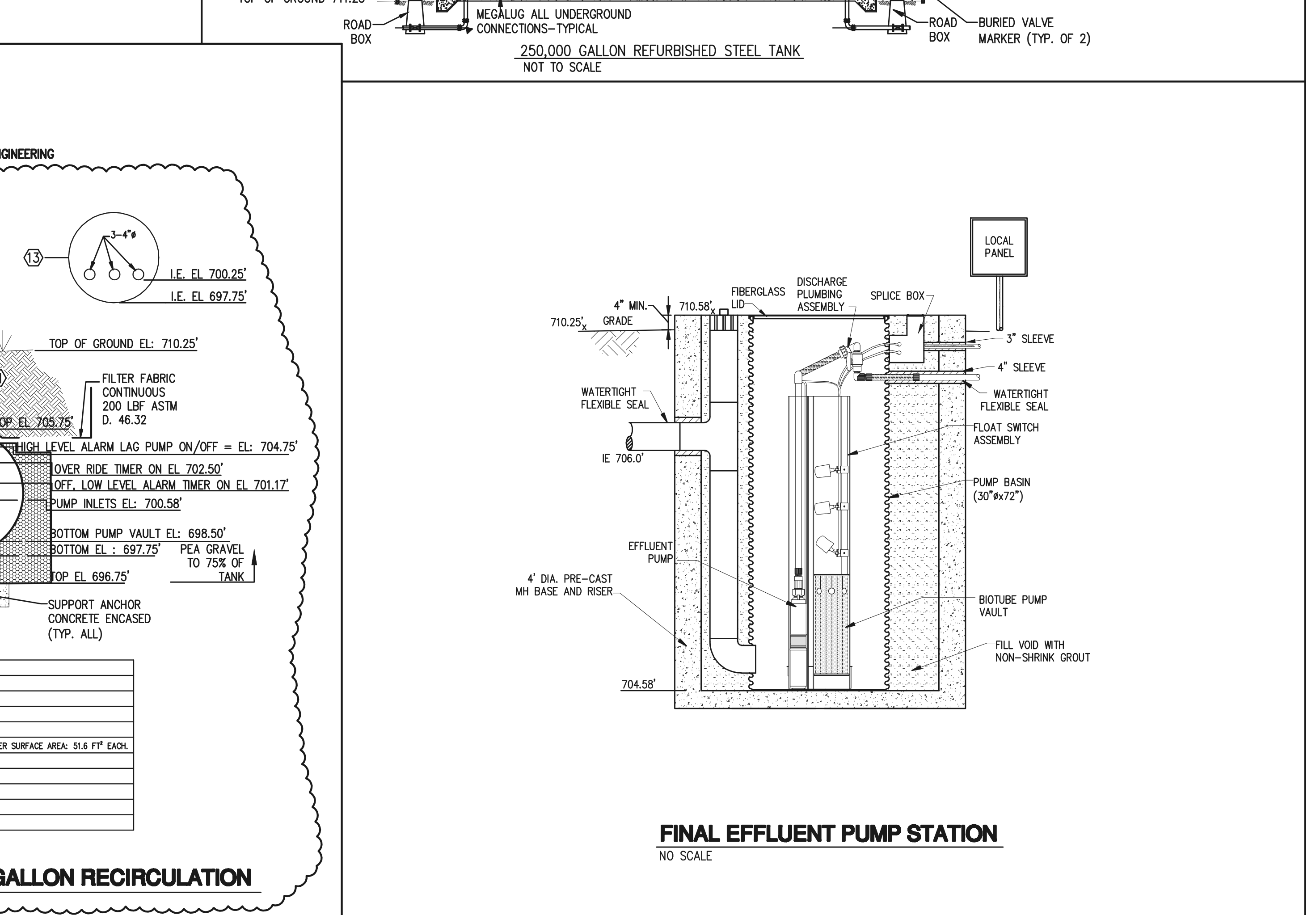
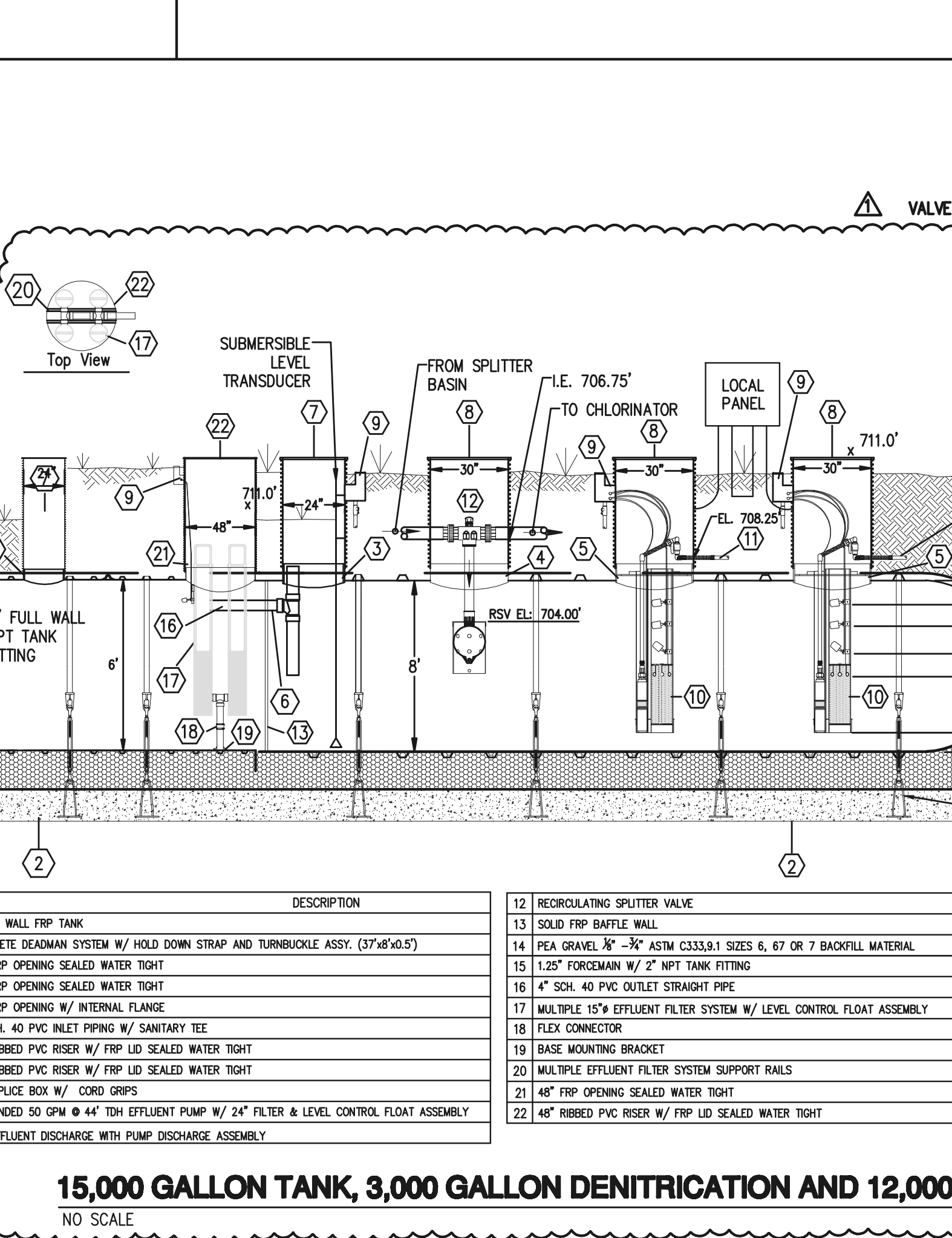
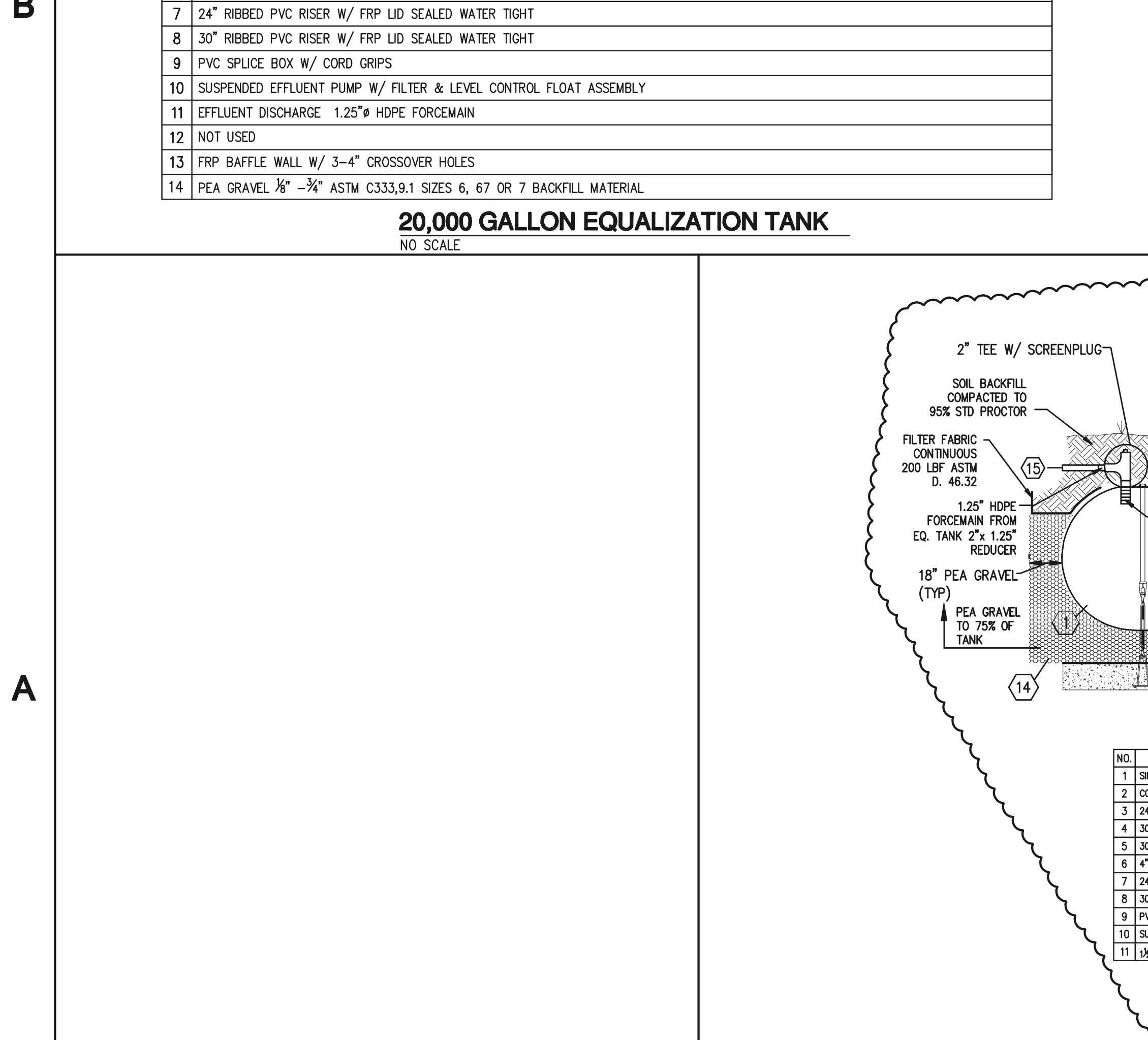
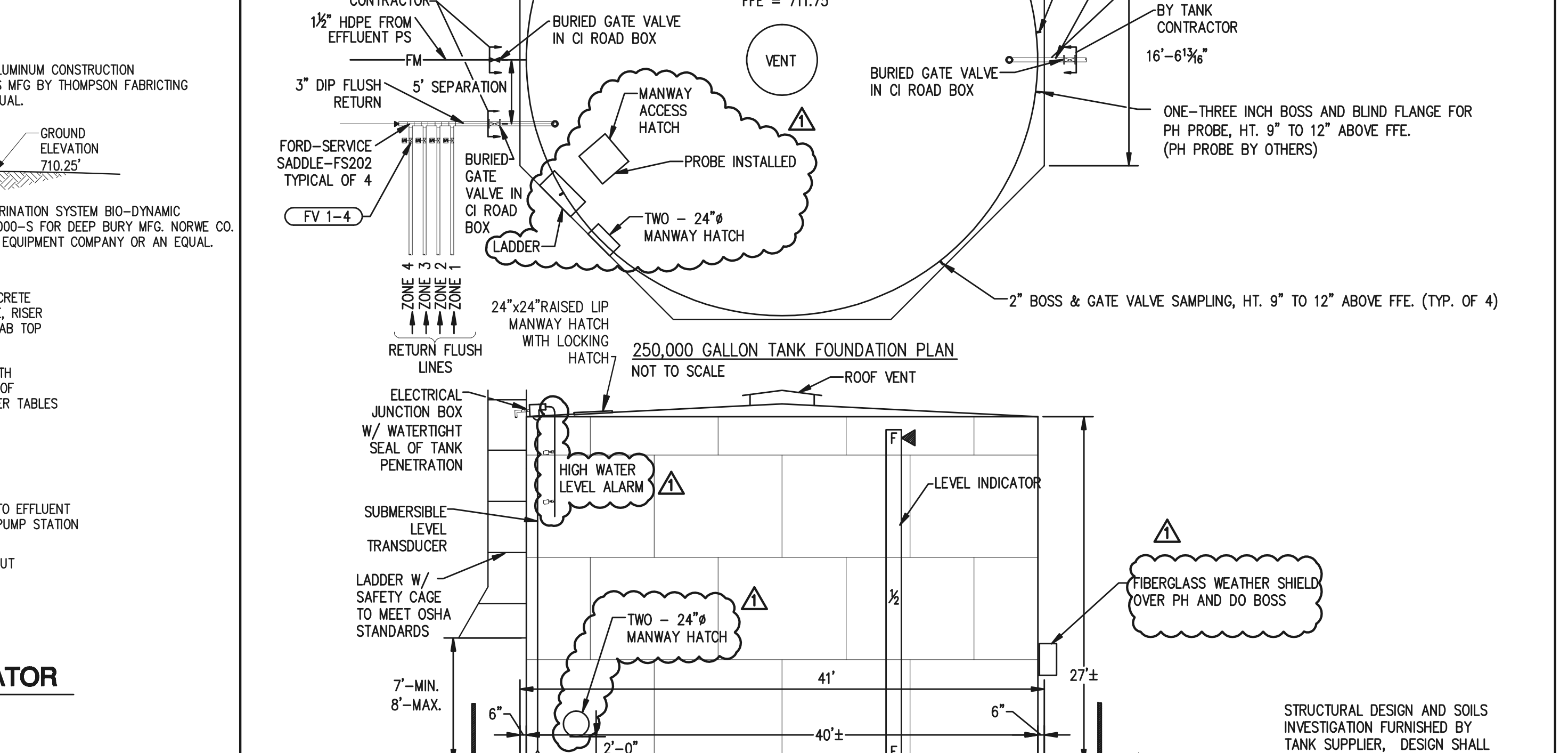
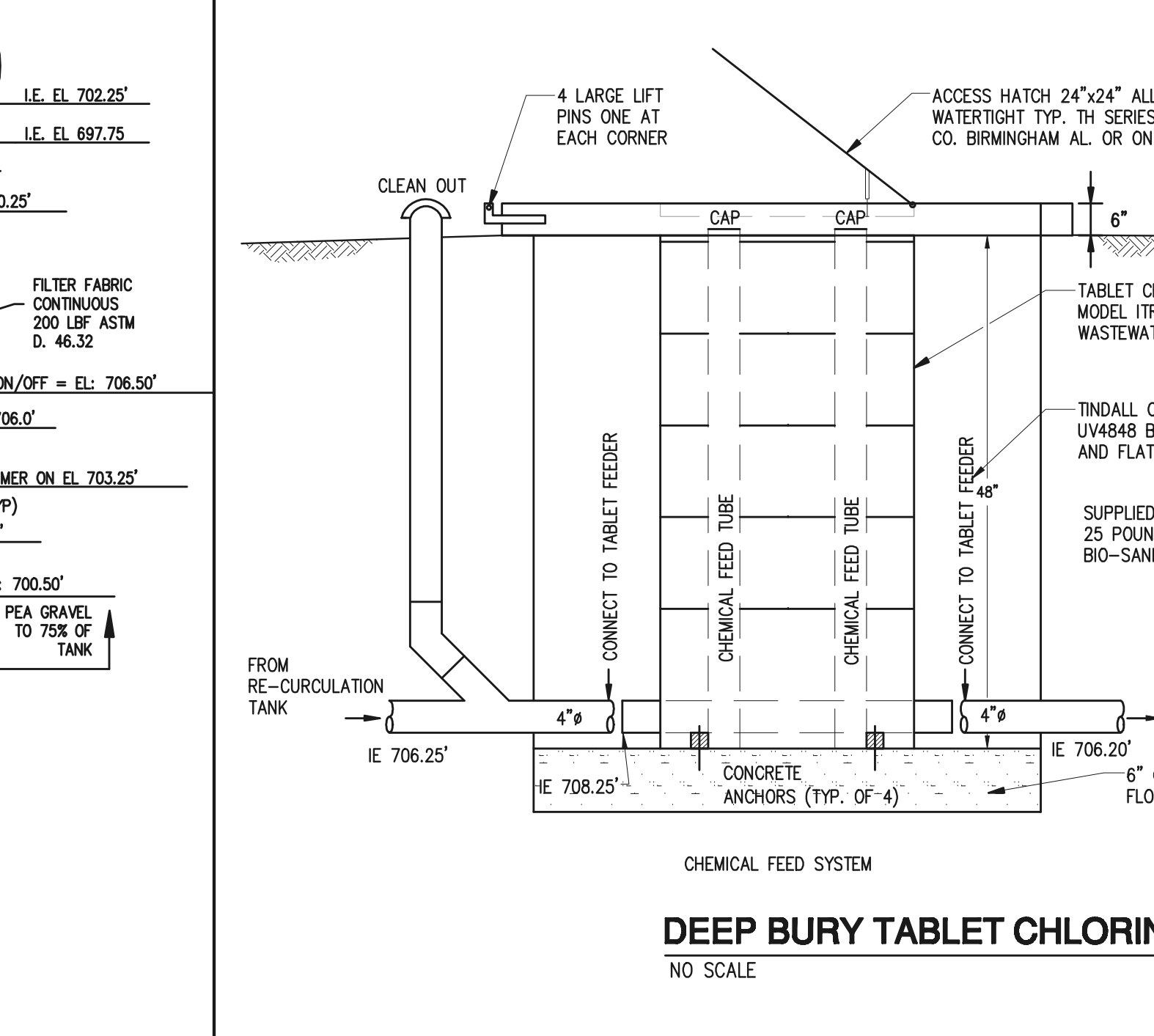
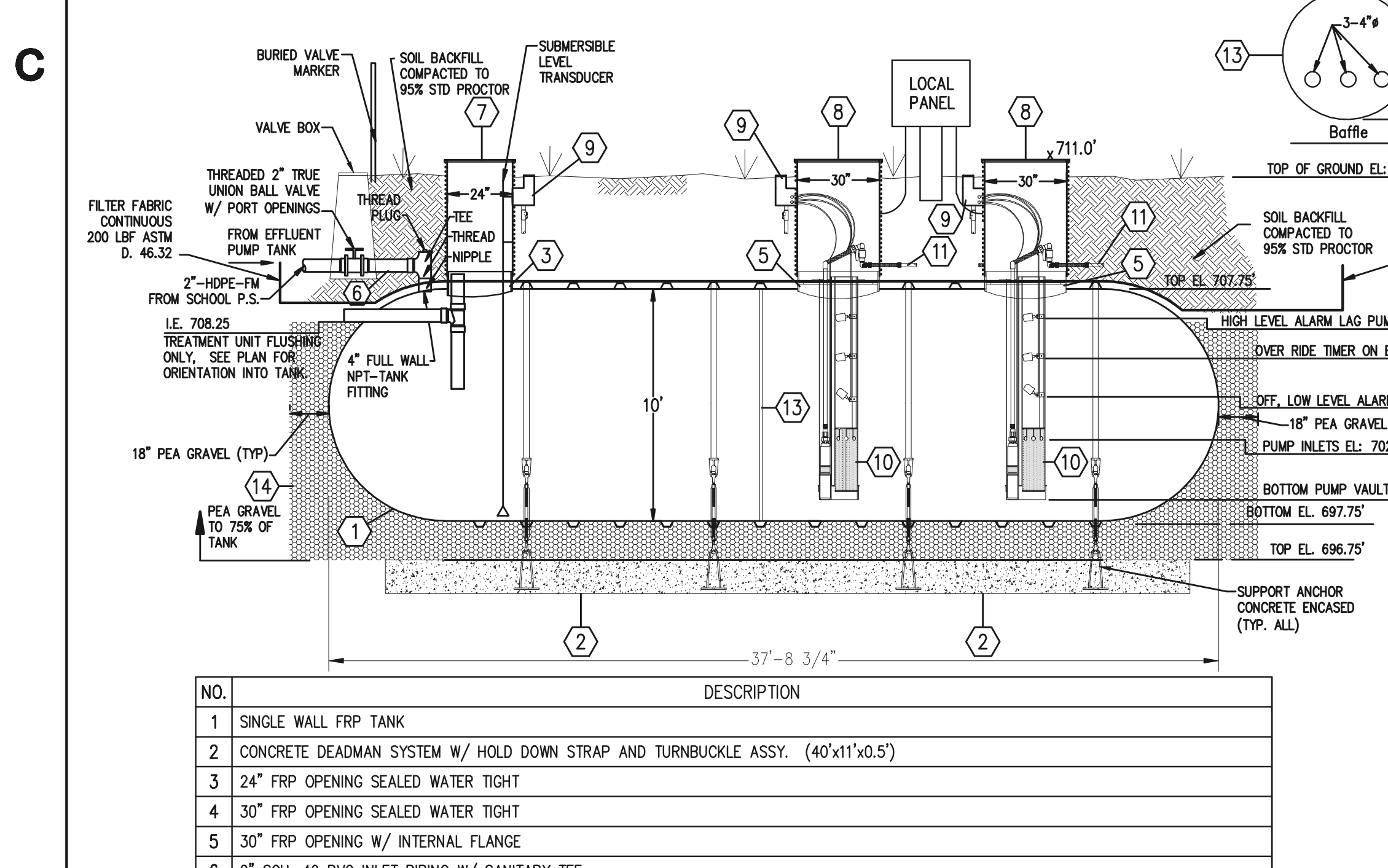
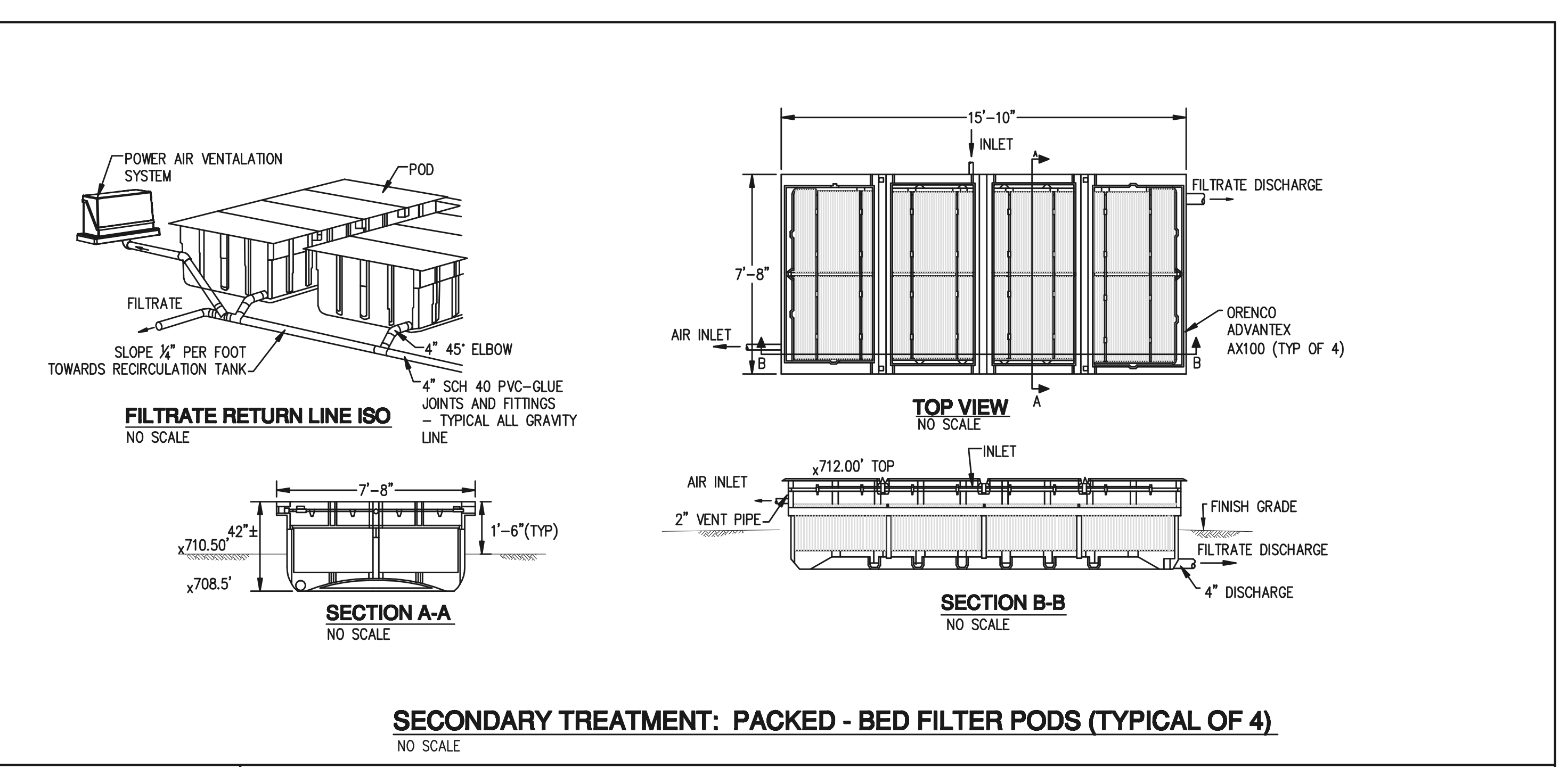
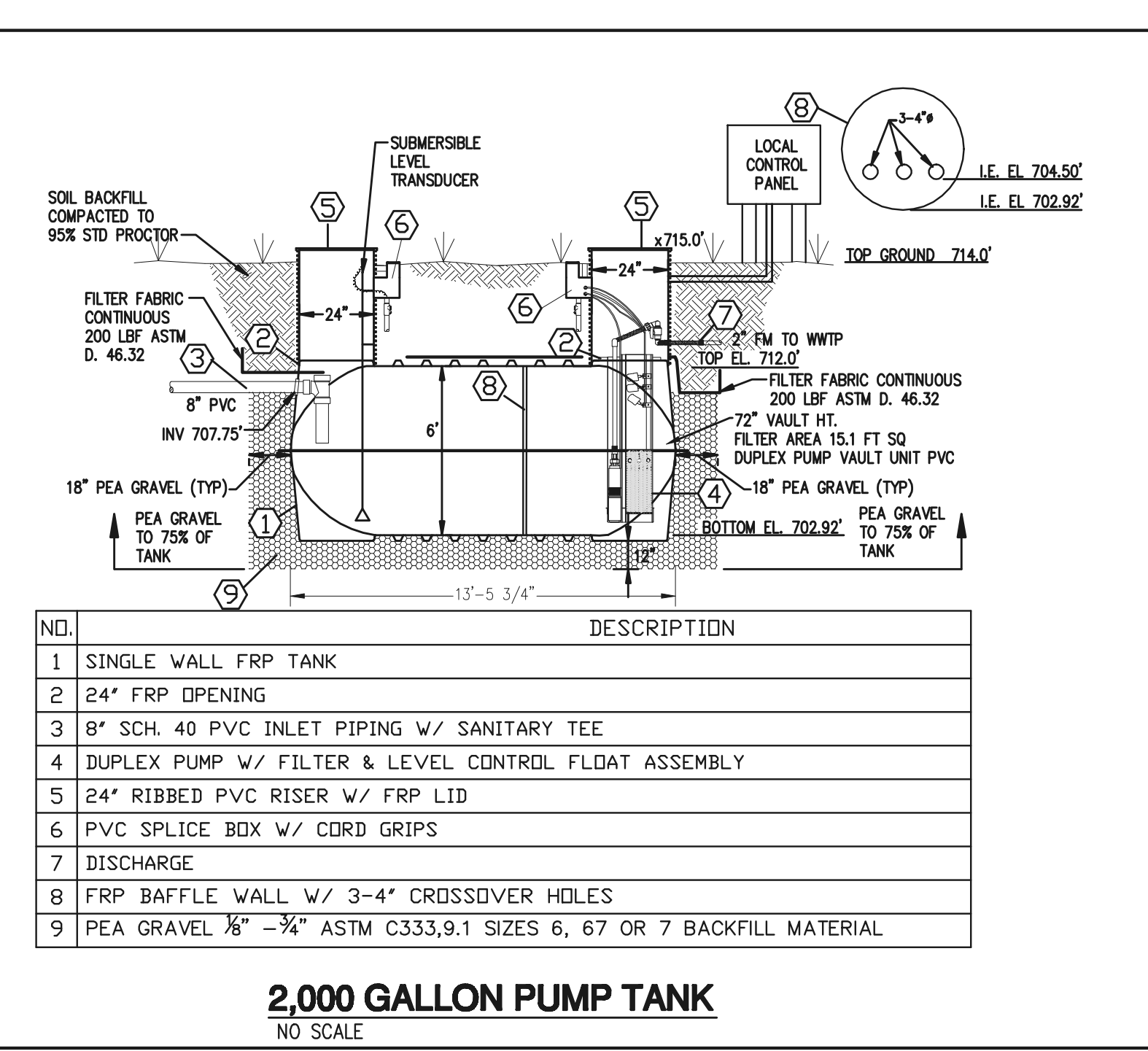
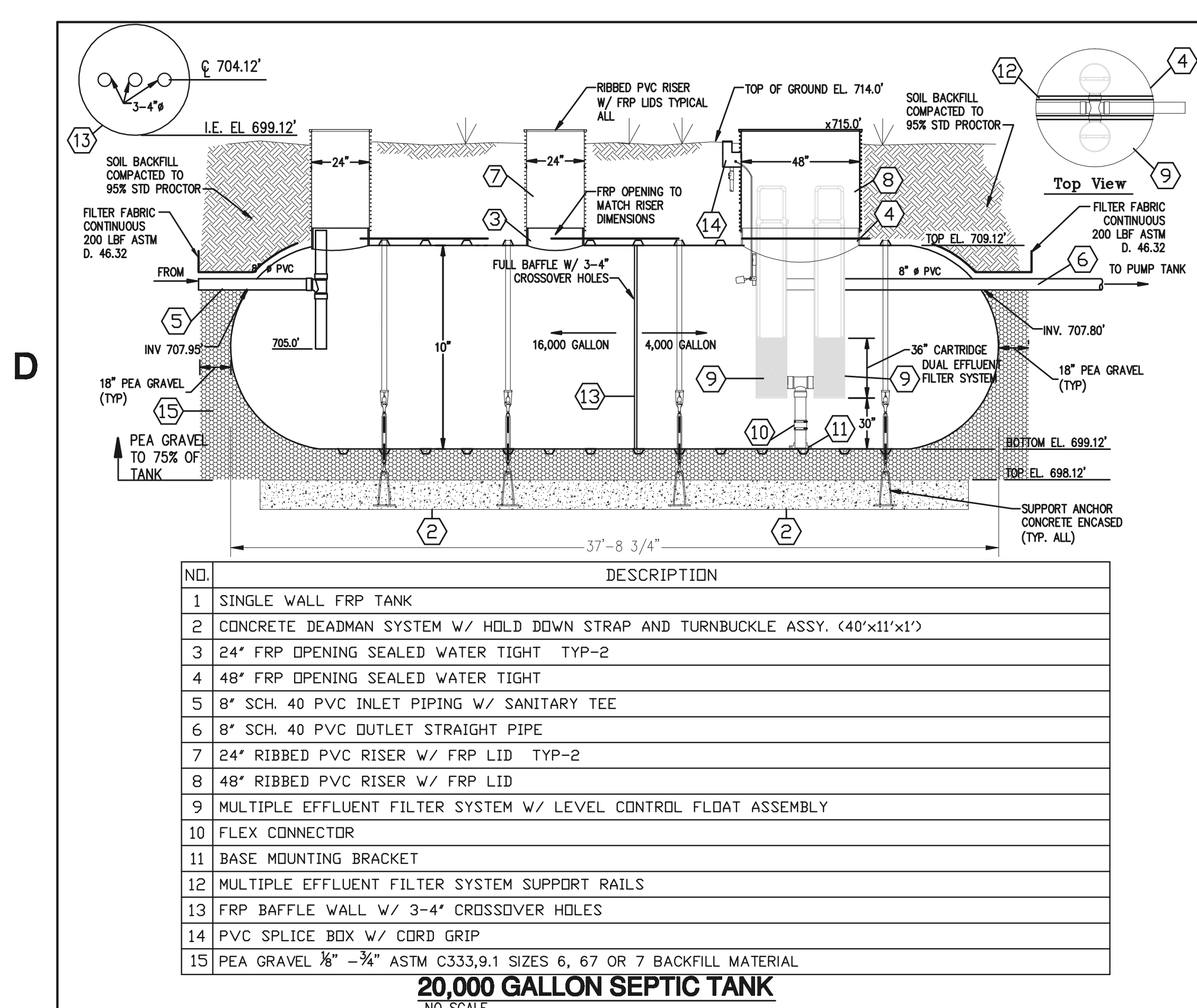


GREENVILLE COUNTY SCHOOLS

DATE	REV	DESCRIPTION
06/03/07	0	ISSUED FOR CONSTRUCTION
06/23/08	1	AS-BUILT

ISSUE: ISSUED FOR CONSTRUCTION

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PROJECT NO:	070-009
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DRAWN BY:	KLK
CHECKED BY:	GAJ
SHEET TITLE	TREATMENT PLANT ENLARGED PLAN
403	SS-6
CD	



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KEITH A. CUNNINGHAM
PROFESSIONAL ENGINEER
No. 10530
SOUTH CAROLINA
REGISTERED PROFESSIONAL ENGINEER
No. 021915
EXPIRES 12/31/2018

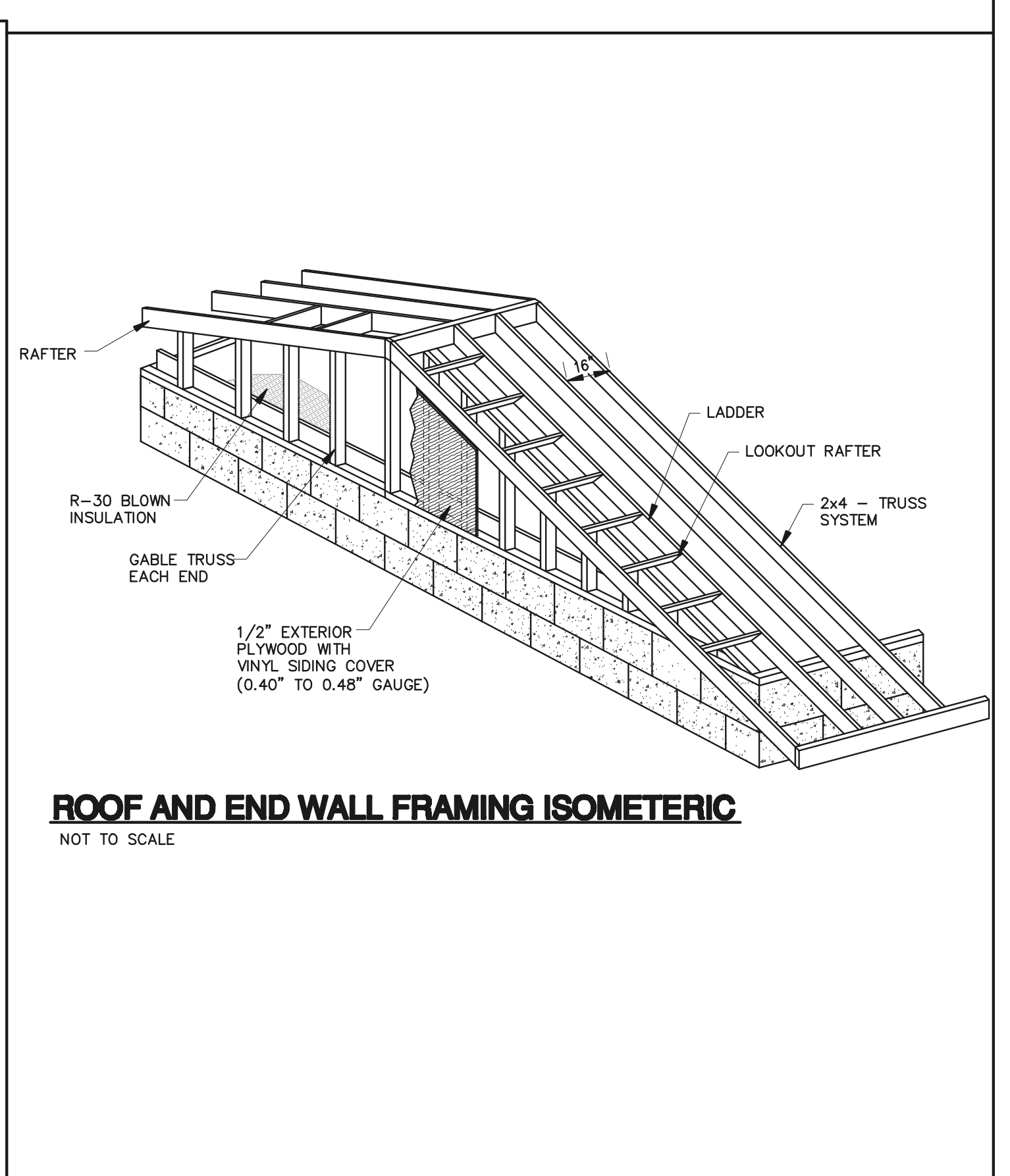
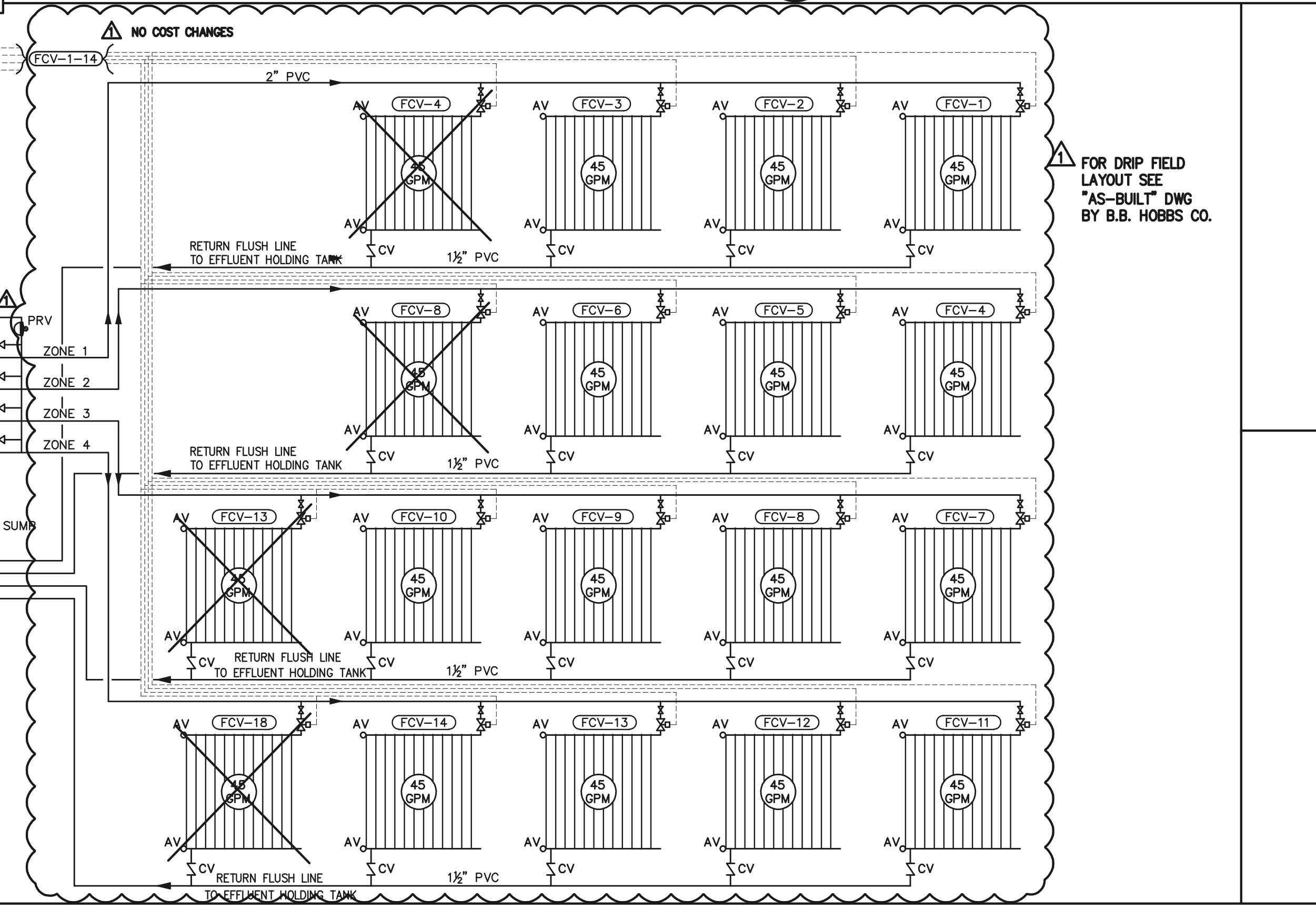
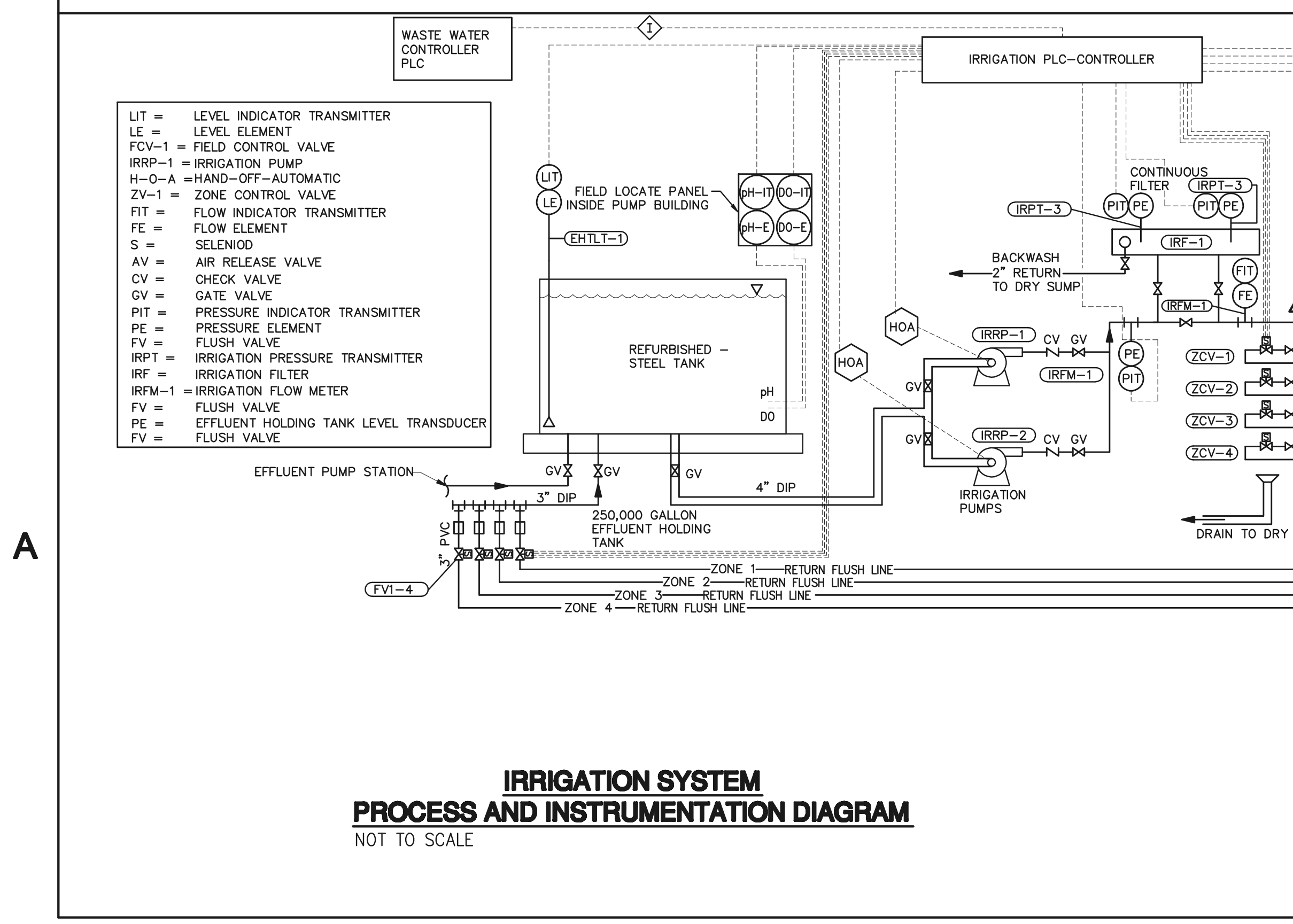
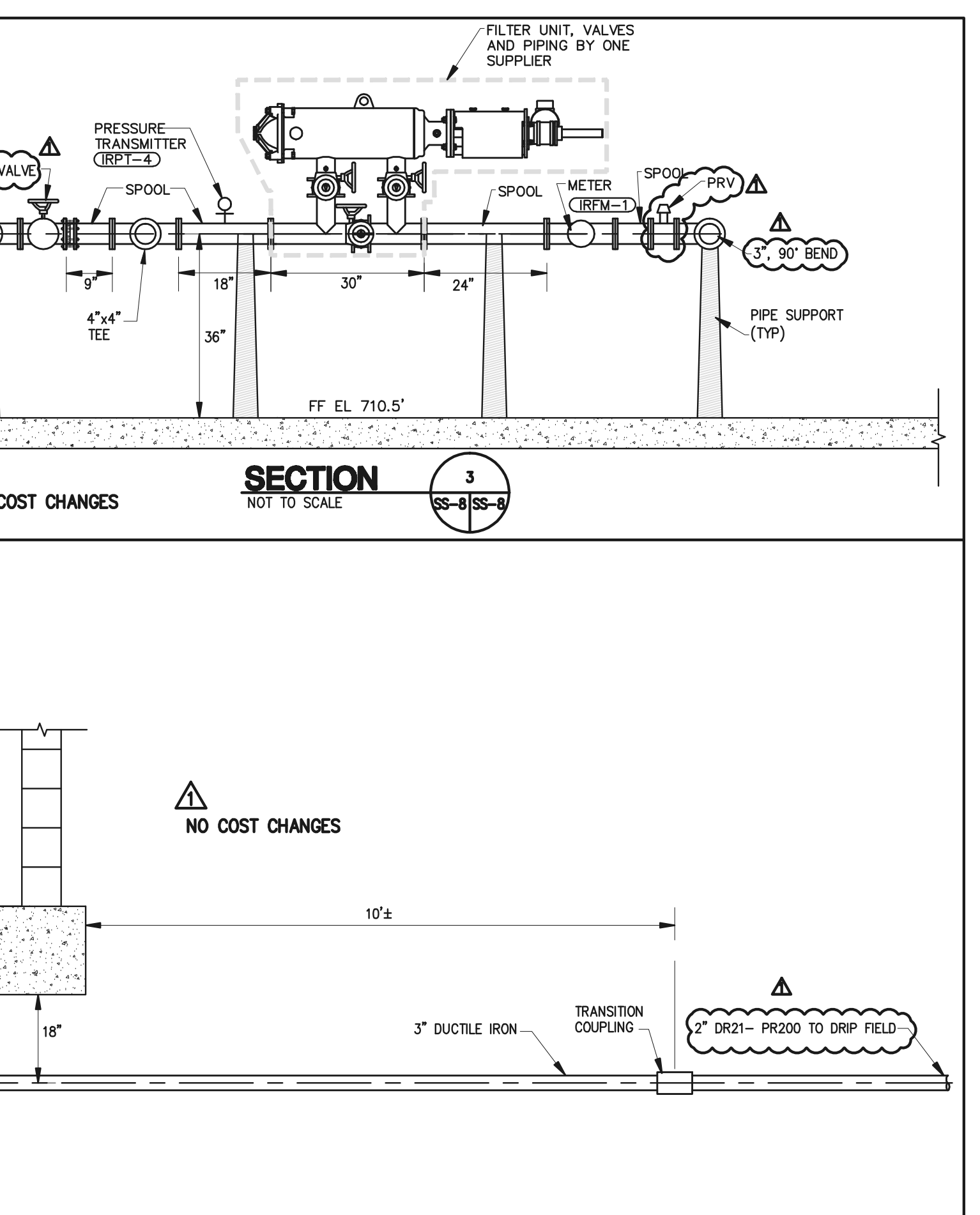
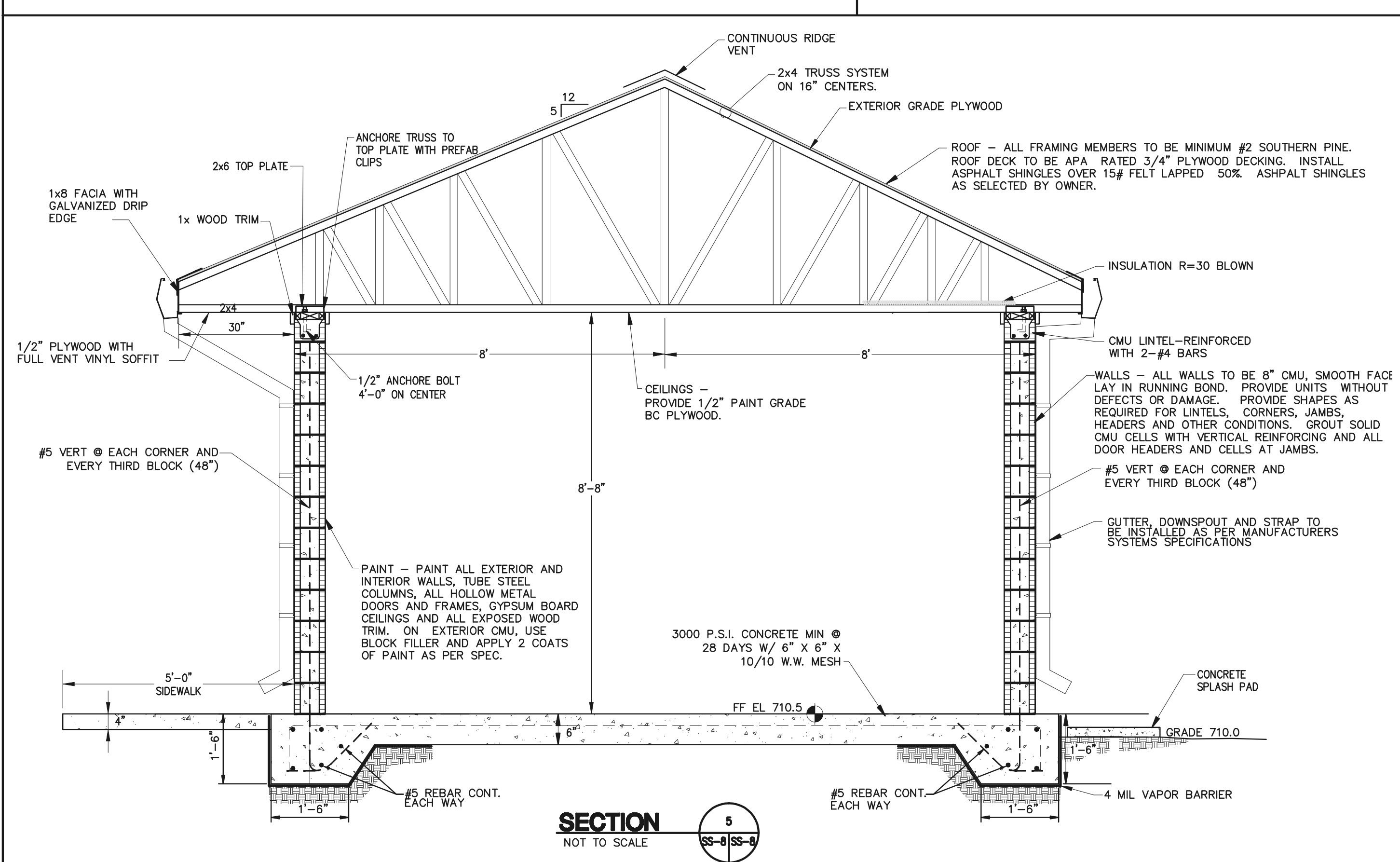
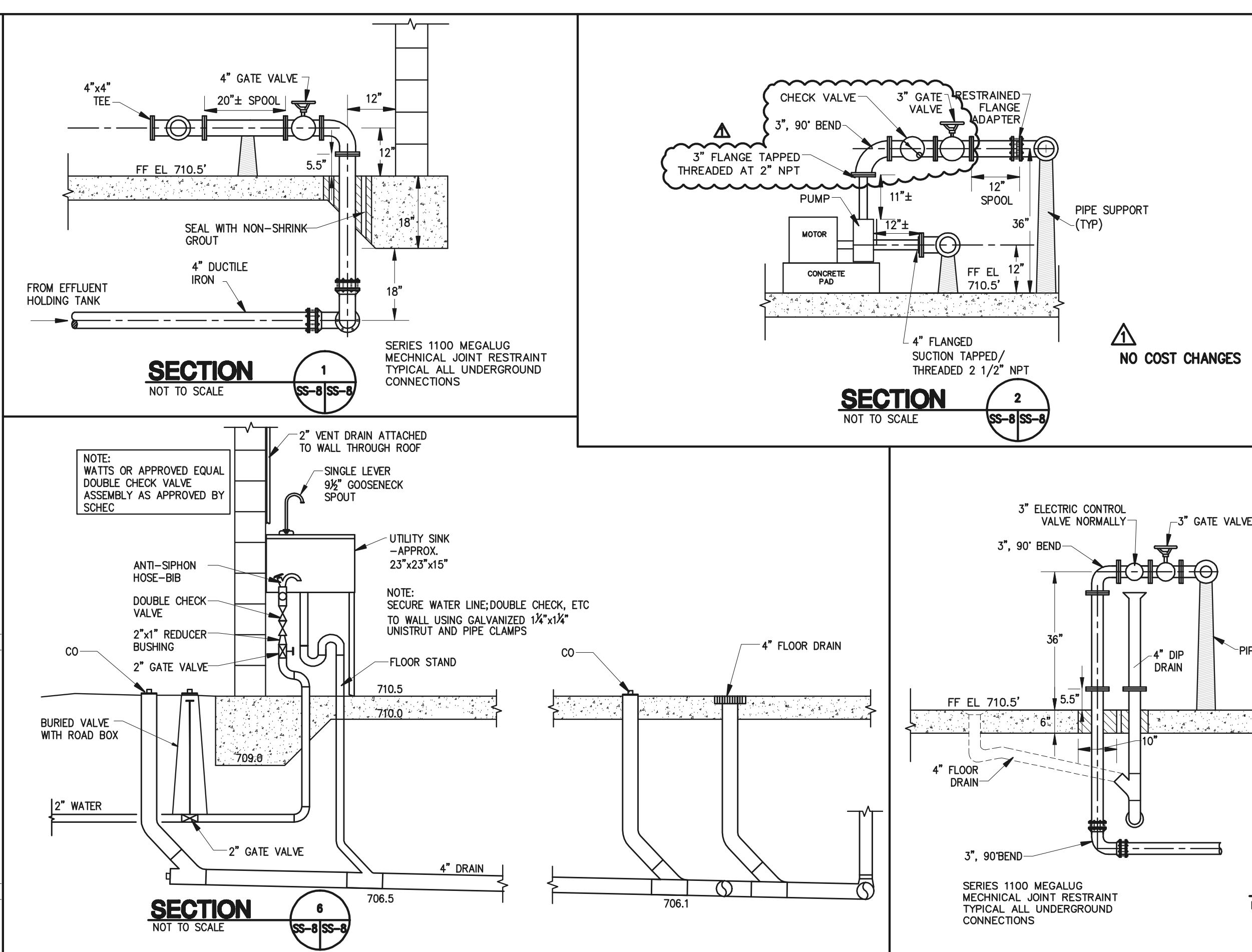
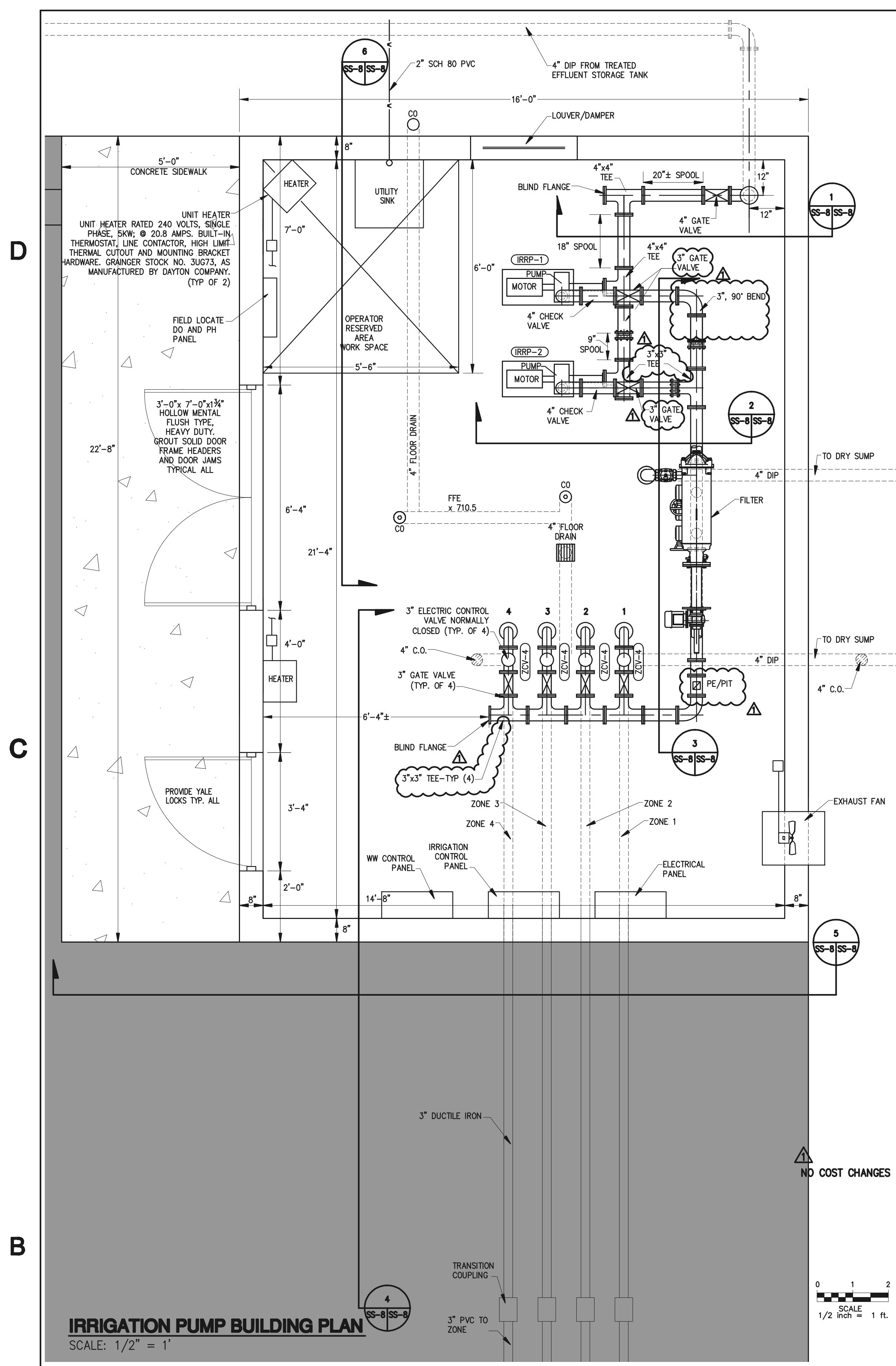
ON-SITE WASTEWATER SYSTEM
FOR
NEW RALPH CHANDLER MIDDLE SCHOOL AT FORK SHOALS
SIMPSONVILLE, SOUTH CAROLINA

GREENVILLE COUNTY SCHOOLS

DATE	REV	DESCRIPTION
05/03/07	0	ISSUED FOR CONSTRUCTION
06/23/08	1	AS-BUILT

ISSUE: ISSUED FOR CONSTRUCTION
DATE: 02/08/07
PROJECT NO: 070-003
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DRAWN BY: KJK
CHECKED BY: GAJ
SHEET TITLE: TREATMENT PLANT SECTIONS & DETAILS

403	SS-7
CD	



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PROFESSIONAL ENGINEER
No. 10530
Gregory A. Hobbs

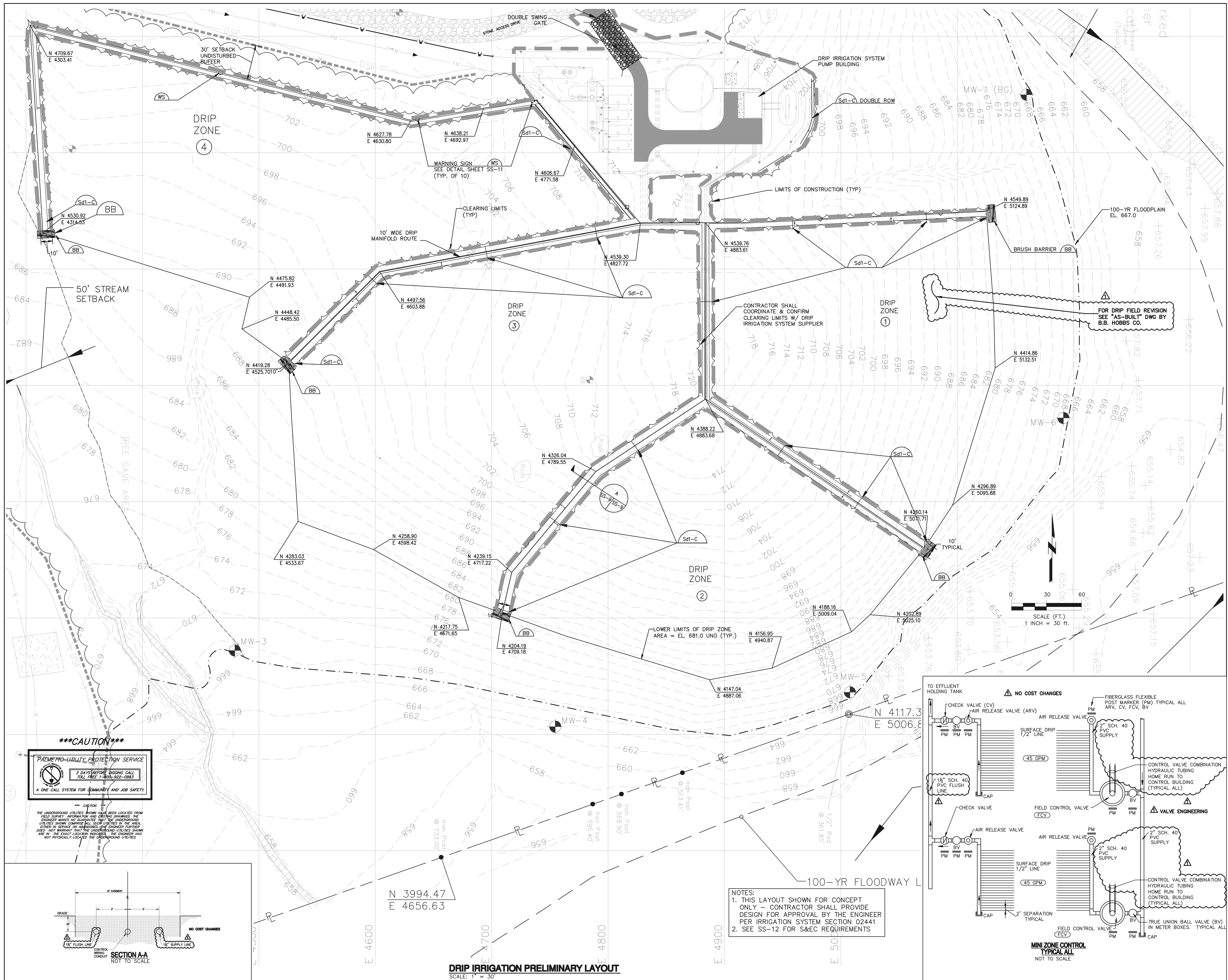
PROFESSIONAL ENGINEER
No. 10530
Gregory A. Hobbs

ON-SITE WASTEWATER SYSTEM
FOR
NEW RALPH CHANDLER MIDDLE SCHOOL AT FORK SHOALS
SIMPSONVILLE, SOUTH CAROLINA

GREENVILLE COUNTY SCHOOLS

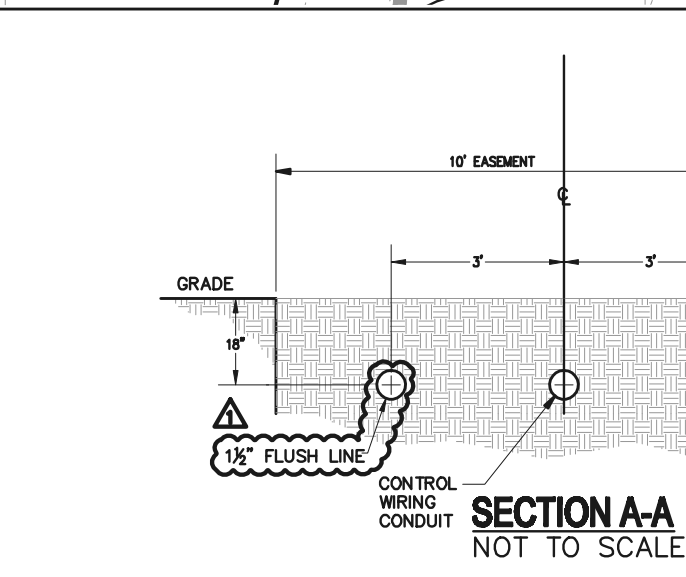
DATE	REV	DESCRIPTION
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02/20/07	1	AS-BUILT

ISSUE: ISSUED FOR CONSTRUCTION
DATE: 02/07/07
PROJECT NO: 070-003
CAD DWG FILE: SS-8.dwg
DRAWN BY: KJK
CHECKED BY: GAJ
SHEET TITLE: DRIP IRRIGATION SYSTEM PUMP STATION PLAN, P&ID SECTIONS & DETAILS
403 CD SS-8

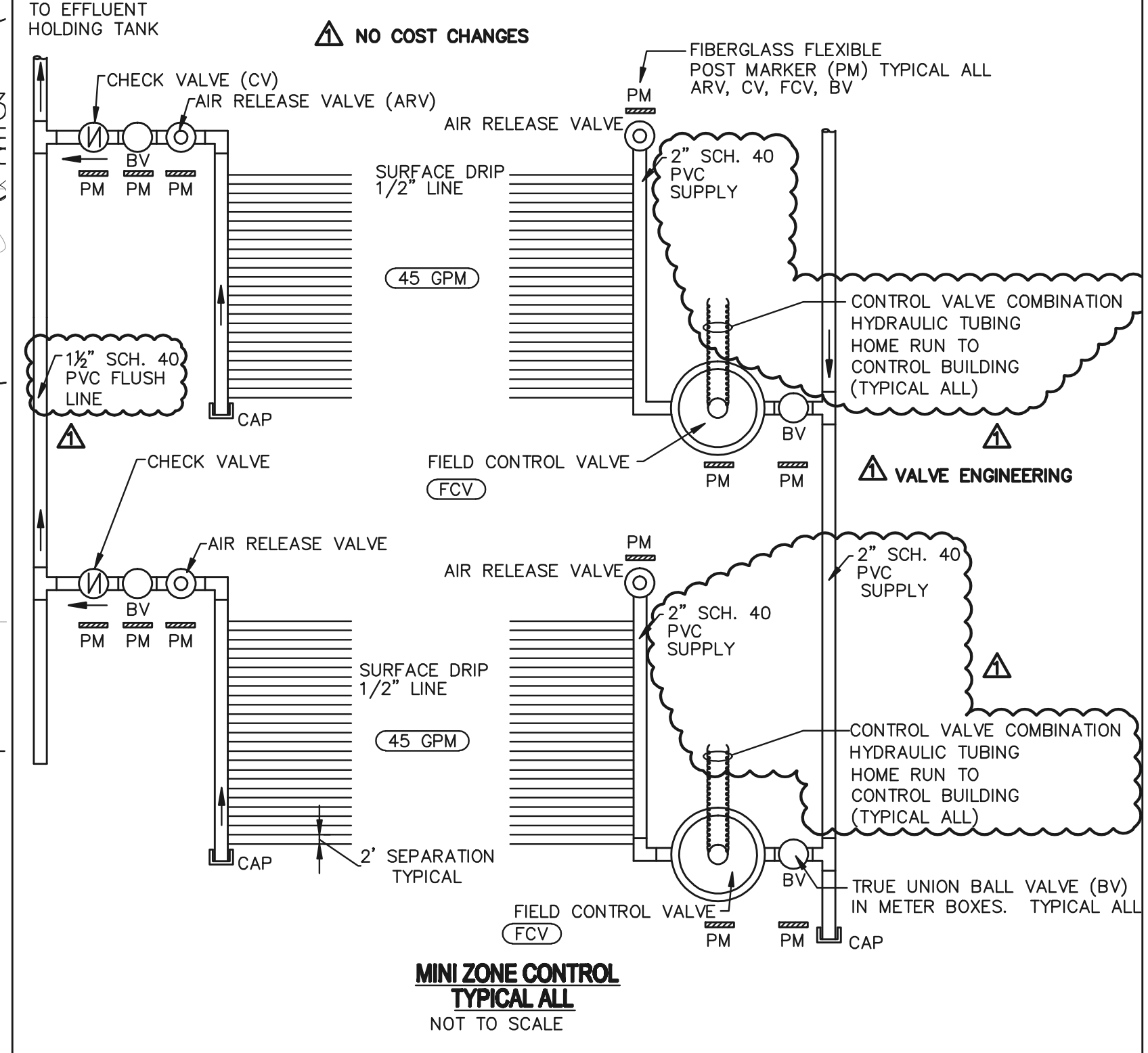


*****CAUTION*****
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 3 DAYS BEFORE DIGGING CALL
 TOLL FREE: 1-800-952-0983
 A ONE-CALL SYSTEM FOR COMMUNITY AND JOB SAFETY.

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NOTES:
 1. THIS LAYOUT SHOWN FOR CONCEPT ONLY - CONTRACTOR SHALL PROVIDE DESIGN FOR APPROVAL BY THE ENGINEER PER IRRIGATION SYSTEM SECTION 02441
 2. SEE SS-12 FOR S&E REQUIREMENTS

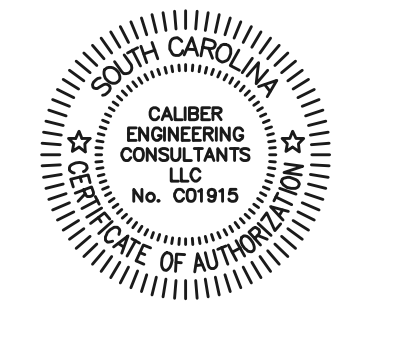
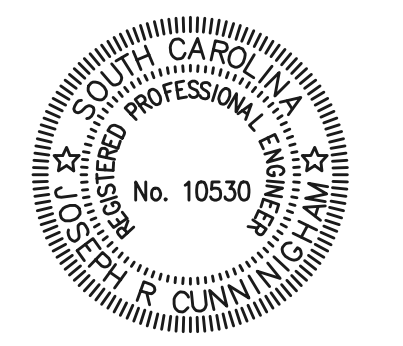


DRIP IRRIGATION PRELIMINARY LAYOUT
 SCALE: 1" = 30'

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ON-SITE WASTEWATER SYSTEM
 FOR
NEW RALPH CHANDLER MIDDLE SCHOOL
 AT FORK SHOALS
 SIMPSONVILLE, SOUTH CAROLINA



GREENVILLE COUNTY SCHOOLS

DATE	REV	DESCRIPTION
05/03/07	0	ISSUED FOR CONSTRUCTION
05/23/08	1	AS-BUILT

ISSUE: ISSUED FOR CONSTRUCTION
DATE: 02/08/07
PROJECT NO: 070-008
CAD DWG FILE: 88-9.dwg
DRAWN BY: KJK
CHECKED BY: GAJ
SHEET TITLE: DRIP IRRIGATION SYSTEM PRELIMINARY LAYOUT

403 CD SS-9

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ON-SITE WASTEWATER SYSTEM
FOR
NEW RALPH CHANDLER MIDDLE SCHOOL
AT FORK SHOALS
SIMPSONVILLE, SOUTH CAROLINA



GREENVILLE COUNTY SCHOOLS

DATE	REV	DESCRIPTION
5/28/08	1	CONTRACTOR ASBUILT INFO

ISSUE: ISSUED FOR CONSTRUCTION
DATE: 5/3/07
PROJECT NO: 070-003
CAD DWG FILE:
DRAWN BY: TMP
CHECKED BY: DJB
SHEET TITLE

ELECTRICAL LEGEND AND SITE PLAN

403 CD **E-1**

"The original documents, prepared by Burdette Engineering, Inc. have been modified to incorporate field changes made by the contractor(s), based on marked-up prints provided by the contractor and other data associated with changes in the work authorized by the owner. The engineer represents that these record documents have been prepared on the basis of information provided to the engineer, but makes no representations as to the accuracy or completeness of such information."

SYMBOL	DESCRIPTION
	HOME RUN TO LIGHTING/SERVICE PANEL. HASH MARKS, WHEN SHOWN, INDICATE NUMBERS OF CONDUCTORS. "H" INDICATES HOT WIRE, "N" INDICATES NEUTRAL CONDUCTOR, "G" INDICATES GROUND CONDUCTOR. HOME RUN NOTE INDICATES PANEL NAME AND CIRCUIT NAME OR FEEDER TAG. CONDUCTORS SHALL BE #12 AWG IN 3/4" CONDUIT UNLESS NOTED OTHERWISE. DO NOT COMBINE HOME RUNS UNLESS SHOWN ON PLANS.
	EXPOSED CONDUIT CONDUIT RUN IN SLAB OR UNDERGROUND.
	CONDUIT RUN CONCEALED ABOVE CEILING OR IN WALLS, UNLESS NOTED OTHERWISE.
	CONDUIT JUNCTION IN CONDUIT OR JUNCTION BOX.
	FLEXIBLE CONDUIT
	CONDUIT TURNING DOWN
	CONDUIT RUNNING UP
	JUNCTION BOX STEM INDICATES WALL MOUNTED
	JUNCTION BOX FLOOR MOUNTED
	LIGHTING OR SERVICE PANEL, SURFACE MOUNTED (208V)
	MAIN DISTRIBUTION PANEL, FLUSH MOUNTED.
	EXHAUST FAN. SEE MECHANICAL DRAWINGS FOR FAN SPECIFICATIONS.
	UNIT HEATER
	MOTOR, HORSEPOWER AS SHOWN.
	STAINLESS STEEL SAFETY DISCONNECT SWITCH. "30" INDICATES AMP RATING, "20" INDICATES FUSE SIZES, "3P" INDICATES NUMBER OF POLES, ENCLOSURE TO BE NEMA 1 UNLESS NOTED OTHERWISE (3R, 4X, ETC.) SQUARE D H300 SERIES HEAVY DUTY SAFETY SWITCH.
	STAINLESS STEEL COMBINATOR MOTOR STARTER, PROVIDE HOA. SIZE AS INDICATED ON PLANS.
	PHOTOELECTRIC CELL, SPEC GRADE, TO BE MOUNTED ON ROOF, FACING NORTH, TORX MODEL 2101 OR EQUAL.
	NOTE: ALL WIRING DEVICES TO BE IVORY, WITH #302 STAINLESS STEEL COVERPLATE (FLUSH MOUNTED) UNLESS NOTED OTHERWISE ON THE DRAWING OR SPECIFICATIONS.
	MANUAL MOTOR STARTER
	SINGLE POLE LIGHTING SWITCH 120-277 VOLT, 20 AMP, SPEC GRADE
	SAME AS "S" ABOVE EXCEPT "3" IN SUBSCRIPT DENOTES 3-WAY SWITCH.
	STRAIGHT BLADE DEVICE SYMBOLS
	20A, 125V, 2P, 3W, NEMA 5-20R, DUPLEX RECEPTACLE.
	VOICE/DATA CONNECTION, PROVIDE BOX AND CONDUIT TO PHONE BACKBOARD. PROVIDE CAT 3 CABLE AND TERMINATE ON MODULAR DEVICE PLATE.
	4' FLUORESCENT STRIP FIXTURE EXTERIOR WALL PACK
	EXIT FIXTURE - ARROW INDICATES ILLUMINATED DIRECTIONAL ARROWS, SHADED SECTION INDICATES FACE WHICH IS ILLUMINATED. STEM INDICATES WALL MOUNTED.

GENERAL LIGHTING NOTES:	
1.	MANUFACTURERS & NUMBERS ARE LISTED TO ESTABLISH QUALITY ONLY AND NOT TO LIMIT COMPETITION. PRIOR TO BIDDING, SUBSTITUTIONS ARE ALLOWED SUBJECT TO SUBMITTAL DATA, PHOTOMETRICS & ENGINEERS APPROVAL AS REQUIRED BY SPECIFICATIONS.
2.	ALL FLUORESCENT FIXTURES SHALL HAVE PREMIUM ELECTRONIC BALLASTS WITH 90% MIN. BALLAST FACTOR AND MAX. THD OF 15%. ALL TROFFERS TO HAVE T-8 LAMPS AND .125 INCH LENSES, MINIMUM UNLESS NOTED. ALL FIXTURES TO BE PAINTED AFTER FABRICATION. BALLASTS SHALL BE MANUFACTURED BY SYLVANIA, ADVANCE OR MAGNETEK. LAMPS SHALL BE MANUFACTURED BY G.E. OR SYLVANIA.
3.	POLES FOR AREA FIXTURES ARE TO MATCH FIXTURE FINISH EXACTLY. PROVIDE MULTI-TAP BALLASTS. CONTRACTOR TO COORDINATE PRE-DRILLING OF POLES AS REQUIRED TO ACCEPT ARM MOUNTING. PROVIDE HAND HOLES AT POLE BASES.
4.	ALL FIXTURES TO BE U.L. LABELED. ALL EXTERIOR FIXTURES SHALL HAVE U.L. WET LABEL OR DAMP LABEL AS REQUIRED BY LOCATION. CONTRACTOR SHALL VERIFY BEFORE SUBMITTING FIXTURE.
5.	PROVIDE ALL MOUNTING ACCESSORIES, BAR HANGARS & HARDWARE REQUIRED.
6.	EMERGENCY BATTERY BALLAST FOR FLUORESCENT FIXTURES SHALL PROVIDE A MINIMUM OF 1100 LUMEN OUTPUT. BALLAST SHALL CONTAIN INTEGRAL SENSING CIRCUIT TO ALLOW FIXTURE TO BE SWITCHED WITH AREA FIXTURES FOR NORMAL OPERATION AND ENERGIZE BATTERY POWERED LAMP UPON LOSS OF POWER CIRCUIT, REGARDLESS OF SWITCH POSITION. MANUFACTURER SHALL BE BODINE OR APPROVED EQUAL.

LIGHTING FIXTURE SCHEDULE					
FIXTURE TYPE	FIXTURE DESCRIPTION	ACCEPTABLE MANUFACTURERS	LAMPS	FIXTURE WATTAGE	VOLTAGE
EX	UNIVERSAL MOUNTED EXIT SIGN WITH RED LED ON WHITE HOUSING, BATTERY BACKUP, DIFFUSER LENS, SPECIFICATION GRADE, DIE-CAST ALUMINUM WITH WHITE FINISH.	DUAL LITE # CWVW - LEDE SURVEILLES # CAX - 7170 - R - W LITHONIA # LESMR - ELN	BY MANUFACTURER	10	UNIVERSAL VOLTAGE OR MULTI-TAP
IA	4', 2 LAMP STANDARD CHANNEL STRIP LIGHT, 22 GA. STEEL, PAF, WITH WIRE GUARD, ELECTRONIC BALLAST BY ADVANCE OR MAGNETEK.	WILLIAMS # 76-4-232-WG1-EB2-UNV METALUX # SS-232-EB81-W6/SS-4FT-PAF LITHONIA # C232-GE8-W69-PAF	2-F03278/35K	60	UNIVERSAL VOLTAGE OR MULTI-TAP
M1	METAL HALIDE, SHOEBOX STYLE, DARK BRONZE, FULL CUTOFF, TYPE III DISTRIBUTION, PHOTOCELL, SQUARE STEEL 15' POLE	LITHONIA # KSE1-250M-R3-SPO4	1-250W MH	300	208
WRE	WALL MOUNTED MINI-SCENCE, CUTOFF, MEDIUM THROW, DIE CAST ALUMINUM HOUSING AND DOOR FRAME, 1/8" TEMPERED GLASS GASKETED LENS, SPECULAR EXTRUDED POLISHED ANODIZED SEALED REFLECTOR, WET LOCATION WITH REMOTE MOUNTED BOONIE 90 MINUTE BACKUP EMERGENCY BALLAST COMPLETE WITH REQUIRED INTERCONNECTING WIRING, TEST SWITCH AND INDICATOR LIGHT, (BATTERY UNIT TO BE MOUNTED IN CONDITIONED SPACE), COLOR TO MATCH BUILDING FINISH COLOR. TEN DEGREE F OPERATION.	LITHONIA # WST-2/28DT-MD-MVOLT-ELDW LUMARK # PUP-T-52-MT-EM40 WILLIAMS - APPROVED EQUAL	2-26W DTT COMPACT FLUORESCENT	52	UNIVERSAL VOLTAGE OR MULTI-TAP

ABBREVIATIONS:					
AFF	ABOVE FINISH FLOOR	GFI	GROUND FAULT INTERRUPTER DEVICE	PBRD	PANELBOARD
AFG	ABOVE FINISHED GRADE	HH	HAND HOLE	RECP	RECEPTACLE (R.)
ACH	ABOVE COUNTER HEIGHT	IG	ISOLATED GROUND	REQD	REQUIRED
AL	ALUMINUM	LTC	LIGHTING (L.)	SP	SURGE PROTECTED DEVICE
BKR	BREAKER	MCC	MOTOR CONTROL CENTER	SW	SWITCH
CU	COPPER	MLO	MAIN LUGS ONLY	UV	UNIT VENTILATOR
CKT	CIRCUIT	MCB	MAIN CIRCUIT BREAKER	UNO	UNLESS NOTED OTHERWISE
D	DEDICATED OUTLET	MFR	MANUFACTURER	UH	UNIT HEATER
DWG	DRAWING	MH	MAN HOLE	UOND	UNDERGROUND
EWC	ELECTRICAL CONTRACTOR	MDP	MAIN DISTRIBUTION PANEL	W/	WITH
EW	ELECTRIC WATER COOLER	MSB	MAIN SWITCHBOARD	WH	WATER HEATER
FU	FUSE	NTS	NOT TO SCALE	WP	WEATHER PROOF
FWE	FURNISHED WITH EQUIPMENT	PH	PHASE	WFR	TRANSFORMER

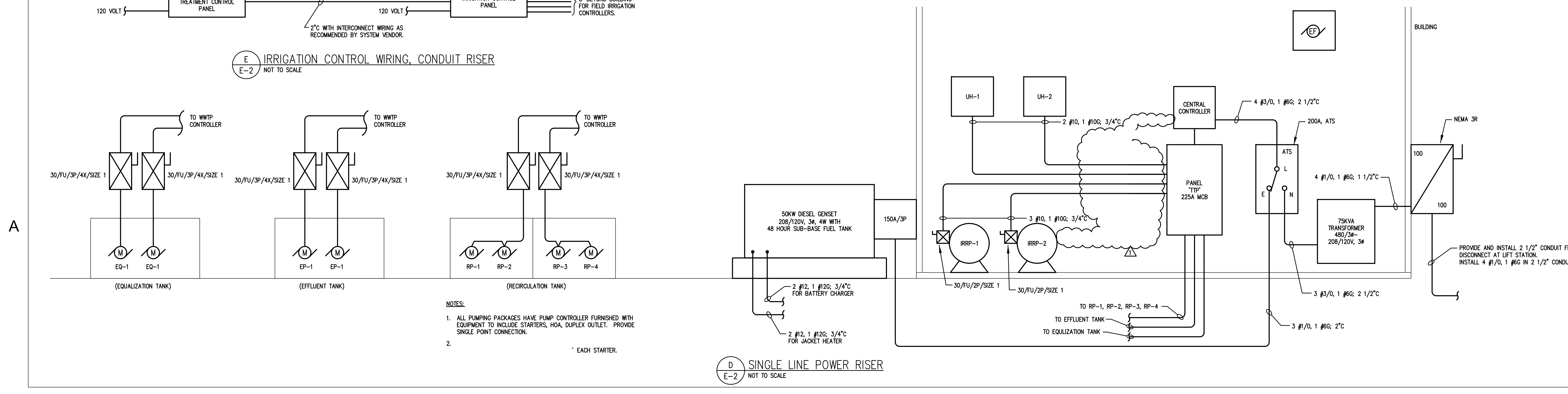
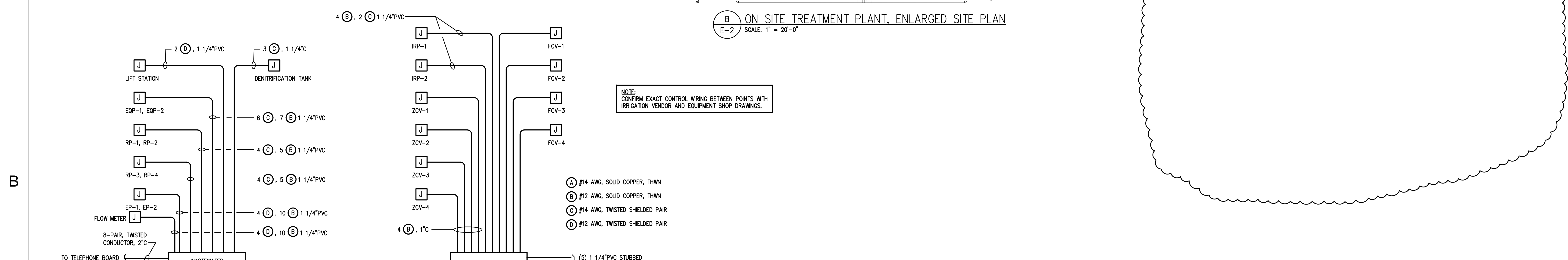
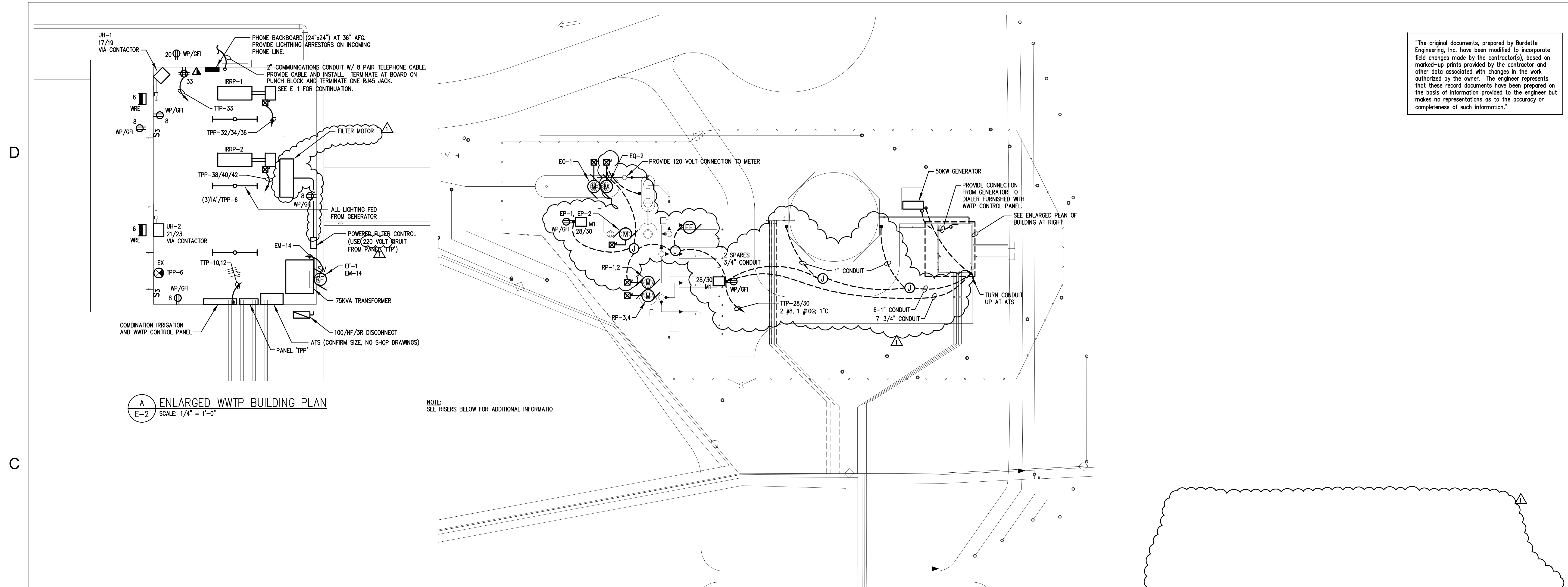
ELECTRICAL GENERAL NOTES:

- INSPECT SITE PRIOR TO SUBMITTING BID. DRAWINGS ARE INTENDED TO COVER THE REQUIRED ELECTRICAL SYSTEMS. DRAWINGS MAY NOT SHOW COMPLETE OR ACCURATE DETAILS OF THE BUILDING OR SYSTEM IN EVERY RESPECT. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN ANY ADDITIONAL INFORMATION AS REQUIRED.
- CONFORM TO THE NATIONAL ELECTRICAL CODE, APPLICABLE NEMA, ANSI AND IEEE PUBLICATIONS, U.L. AND ADA STANDARDS AND OSHA REQUIREMENTS. COMPLY WITH LOCAL, COUNTY, STATE AND NATIONAL CODES HAVING JURISDICTION.
- FURNISH AND INSTALL ALL MATERIALS IN A NEAT AND WORKMANLIKE FASHION. ALL MATERIALS SHALL BE NEW WITH FIRST QUALITY AND U.L. LABEL.
- VERIFY ALL DIMENSIONS AND CLEARANCES PRIOR TO INSTALLATION OF EQUIPMENT AND RACEWAYS. CONTRACTOR IS RESPONSIBLE FOR COORDINATION OF WORK WITH THAT OF ALL OTHER TRADES AS REQUIRED.
- CONDUIT SHALL BE EMT FOR BRANCH CIRCUIT WIRING AS FOLLOWED BY NEC, EXCEPT THAT SET SCREW OR CRIMP FITTINGS ARE NOT ALLOWED. WHERE EXPOSED TO PHYSICAL DAMAGE CONDUITS SHALL BE RIGID GALVANIZED STEEL. MINIMUM CONDUIT SIZE SHALL BE 3/4". ALL CONDUCTORS SHALL BE TYPE THHN/THWN, 600V COPPER BUILDING WIRE. MINIMUM SIZE SHALL BE #12 AWG COPPER UNLESS NOTED. UNDERGROUND CONDUITS SHALL BE SCHEDULE 40 WITH TRANSITION TO RIGID GALVANIZED STEEL FOR EXPOSED CONDUITS.
- PROVIDE GROUNDING FOR ALL EQUIPMENT IN ACCORDANCE WITH ARTICLE 250 OF THE NATIONAL ELECTRICAL CODE. GROUND SERVICE TO BUILDING STEEL, DRIVEN GROUND ROD AND COLD WATER PIPE.
- ALL ENCLOSURES SHALL BE OF THE NEMA TYPE WHICH IS SUITABLE FOR THE APPLICATION.
- SEAL ALL CONDUIT PENETRATIONS TO MATCH RATING OF WALL BEING PENETRATED.
- ALL WORK SHALL HAVE PROPER LABELING AND NAMEPLATES. ALL CIRCUITS SHALL BE LABELED AT PANELS AND BOXES AS INDICATED. ALL PANELS AND DISCONNECTS ARE TO BE PERMANENTLY MARKED WITH NAME OR EQUIPMENT SERVED. ALL PANELS ARE TO BE PROVIDED WITH TYPEWRITTEN PANEL SCHEDULES.
- CONTRACTOR SHALL KEEP CURRENT A SET OF PLANS FOR THE DURATION OF CONSTRUCTION WITH ALL CHANGES TO WORK NEATLY AND ACCURATELY MARKED IN RED AND SHALL TURN OVER TO OWNER AT COMPLETION OF PROJECT.
- ALL ELECTRICAL EQUIPMENT SHALL BE INSTALLED TO MEET SEISMIC REQUIREMENTS OF 2003 IBC AND SHALL BE SUBJECT TO SPECIAL INSPECTION REQUIREMENTS, CHAPTER 17 OF 2003 IBC AS IT RELATES TO ELECTRICAL EQUIPMENT. PROVIDE DRAWINGS FOR ALL INSTALLATION METHODS AND MEET ALL REQUIREMENT PER AUTHORITY HAVING JURISDICTION.
- THOROUGHLY CLEAN ALL EQUIPMENT AND SYSTEMS BEFORE PLACING IN OPERATION. RESTORE FINISHED SURFACES IF DAMAGED AND DELIVER THE ENTIRE INSTALLATION IN AN APPROVED CONDITION. INSTRUCT THE OWNER'S PERSONNEL IN THE PROPER OPERATION AND MAINTENANCE OF THE SYSTEMS. FURNISH TO THE OWNER THREE SETS OF OPERATION AND MAINTENANCE MANUALS FOR EACH SYSTEM.
- GUARANTEE THE WORK INSTALLED FOR A PERIOD OF ONE YEAR AFTER DATE OF FINAL ACCEPTANCE. DEFECTS WHICH APPEAR AS A RESULT OF NORMAL USAGE SHALL BE REMEDIED BY THE CONTRACTOR TO THE COMPLETE SATISFACTION OF THE OWNER WITHOUT COST TO THE OWNER.
- CONTRACTOR SHALL KEEP CURRENT A SET OF PLANS FOR THE DURATION OF CONSTRUCTION WITH ALL CHANGES TO WORK NEATLY AND ACCURATELY MARKED IN RED AND SHALL TURN OVER TO OWNER AT COMPLETION OF PROJECT.
- ALL ELECTRICAL EQUIPMENT SHALL BE INSTALLED TO MEET SEISMIC REQUIREMENTS OF 2003 IBC AND SHALL BE SUBJECT TO SPECIAL INSPECTION REQUIREMENTS, CHAPTER 17 OF 2003 IBC AS IT RELATES TO ELECTRICAL EQUIPMENT. PROVIDE DRAWINGS FOR ALL INSTALLATION METHODS AND MEET ALL REQUIREMENT PER AUTHORITY HAVING JURISDICTION.

PANEL TPP		CABINET SURFACE MOUNTED FEEDER BOTTOM		TYPE SQ. D NOOD MAINS 225A MLO	
BRANCH CIRCUIT	NO.	PHASE LOAD (VOLT-AMPS)	NO.	BRANCH CIRCUIT	NO.
15 3 EQ-1, EQ-2	15	850	650	2	SPARE
15 3 EP-1, EP-2	15	850 720	650 300	3	BL-BUILDING
20 3 RP-1, RP-2	13	1250 300	1250	10	IR-IRRIGATION, EXT.
20 3 RP-3, RP-4	13	1250 180	1250 1000	10	W/TP CONTROLS
30 2 UH-1 (VA CONTACTOR)	23	2500 300	2500 250	14	EF-1
30 2 UH-2 (VA CONTACTOR)	23	2500 2000	2500 250	16	CONTRACTOR POWER
1 R-WWP-BUILDING	33	360 2000		18	SPARE
20 2 FILTER	39	2000	2000	20	GENERATOR
1 INTEGRATED EQUIPMENT	41		2000	22	BLOCK HEATER GEN.
				24	R-BATTERY CHARGER
				26	EXTERIOR LIGHTING
				34	IRRP-1
				36	IRRP-2
				40	
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ON-SITE WASTEWATER SYSTEM
FOR
NEW RALPH CHANDLER MIDDLE SCHOOL
AT FORK SHOALS
SIMPSONVILLE, SOUTH CAROLINA

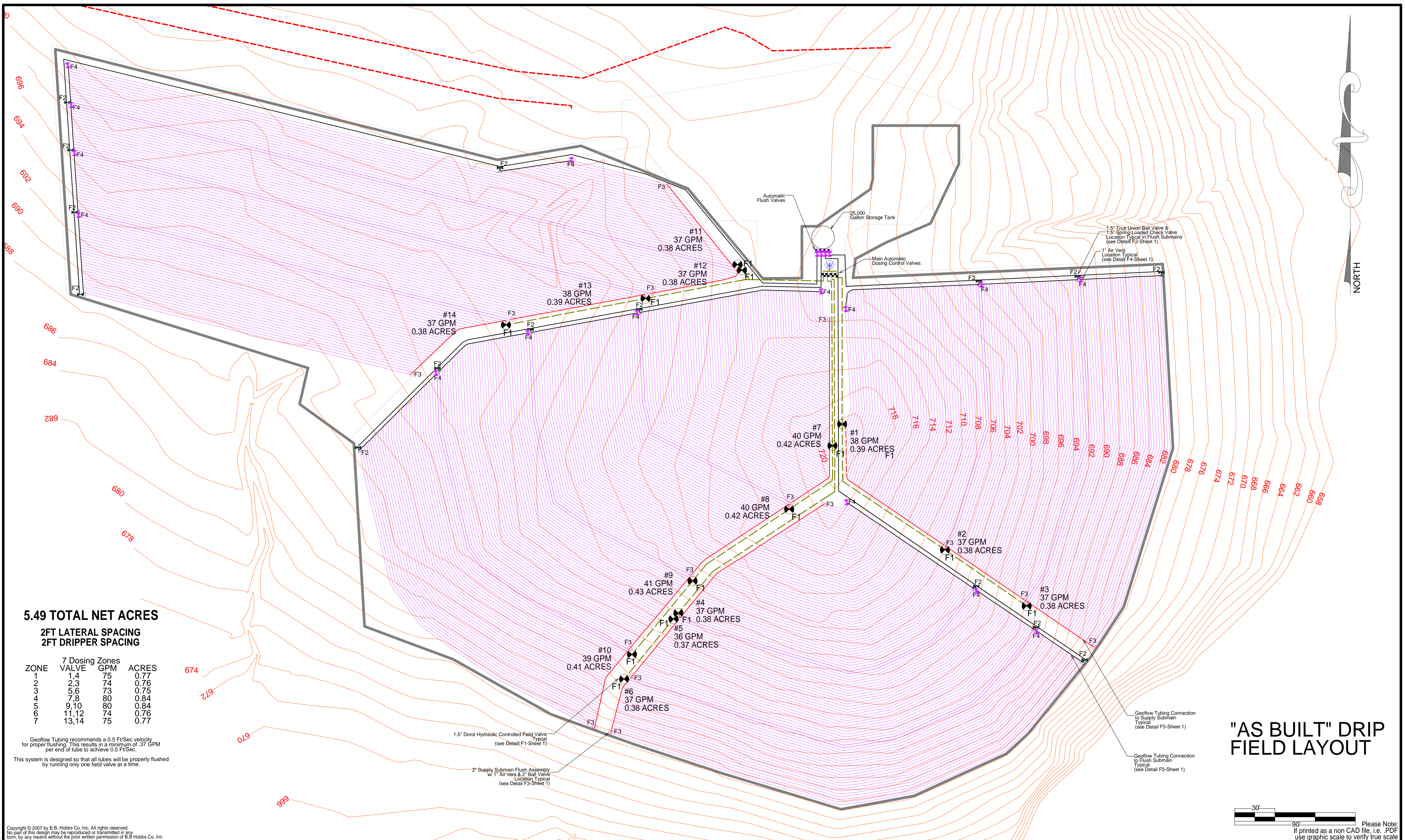


GREENVILLE COUNTY SCHOOLS

DATE	REV	DESCRIPTION
5/28/08	1	CONTRACTOR ASBUILT INFO

ISSUE: ISSUED FOR CONSTRUCTION
 DATE: 05/03/07
 PROJECT NO: 070-003
 CAD DWG FILE:
 DRAWN BY: TMP
 CHECKED BY: DJB
 SHEET TITLE
ELECTRICAL RISER DIAGRAM AND PLANS

N:\GREENVILLE COUNTY SCHOOL DISTRICT\05021\05021-02.pdf.dwg, 5/29/2008 1:48:14 PM



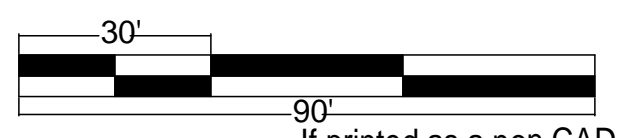
5.49 TOTAL NET ACRES

**2FT LATERAL SPACING
2FT DRIPPER SPACING**

ZONE	7 Dosing Zones VALVE	GPM	ACRES
1	1,4	75	0.77
2	2,3	74	0.76
3	5,6	73	0.75
4	7,8	80	0.84
5	9,10	80	0.84
6	11,12	74	0.76
7	13,14	75	0.77

Geoflow Tubing recommends a 0.5 Ft/Sec velocity for proper flushing. This results in a minimum of .37 GPM per end of tube to achieve 0.5 Ft/Sec.
This system is designed so that all tubes will be properly flushed by running only one field valve at a time.

"AS BUILT" DRIP FIELD LAYOUT



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- GEOFLOW 16mm 24"x.53gph PC
- 1 1/2" Class 200 BE PVC Pipe
- 2" Class 200 BE PVC Pipe
- 2" Class 200 BE PVC Pipe
- 2 1/2" Class 200 BE PVC Pipe

- 1.5" DOROT 3-way Valve, Nylon TT
- 1" AG. PRODUCTS VBK1 AIR VENT
- 1.5" Check Valve TT spring loaded
- 1.5" Ball Valve TT
- 1.5" DOROT 3-way Valve, Nylon TT (FLUSH)
- 1.5" DOROT Valve Iron TT (MAIN DOSING)
- 2" SUBMAIN FLUSH ASSEMBLY
- Water Supply

IRRIGATION DESIGN-SALES-SERVICE-INSTALLATION

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 P.O. BOX 1147
 DARLINGTON, SC 29540
 PHONE: 843-395-2120
 FAX: 843-393-3595
 E-MAIL: irrigate@bbhobbs.com

B.B. HOBBS COMPANY - FL
 1611 18TH AVE. DR EAST
 PALMETTO, FL 34221
 PHONE: 941-722-3433
 FAX: 941-722-4330
 E-MAIL: irrigate@bbhobbs.com

B.B. HOBBS COMPANY, INC.

Caliber Engineering
 Ralph Chandler Middle School

1" = 30'

File: RCM Drip Field