

SITE LOCATION NOT TO SCALE



NEW 250,000 GALLON ELEVATED STORAGE TANK GROUNDWATER WELL, AND TREATMENT SYSTEM (PHASE V) CLARENDON COUNTY, SOUTH CAROLINA (SCIIP PROJECT NO. A-23-C042)



SHEET INDEX

COVER SHEET	
C-1.0	GENERAL CONSTRUCTION NOTES
C-2.0	EXISTING CONDITIONS PLAN
C-3.0	WELL AND TANK SITE PLAN
C-4.0	UTILITY PLAN
C-5.0	GRADING AND STORM DRAINAGE PLAN
C-6.0	EROSION AND SEDIMENT CONTROL DETAILS
C-7.0	WELL DETAIL SHEET
C-8.0	TANK DETAIL SHEET
C-9.0 - C-9.1	EROSION AND SEDIMENT CONTROL DETAILS
C-10.0 - C-10.3	GENERAL DETAILS





	LEGEN
920	EXISTING CONTOUR MAJOR
WV GV	EXISTING CONTOUR MINOR
	EXISTING WATER/GAS VALVE EXISTING WATER/GAS METER
	EXISTING TREE LINE
	EXISTING POWER POLE
¢	EXISTING LIGHT POLE
— — OHE — —	EXISTING OVERHEAD ELECTRICAL LINE
— —FOC— —	EXISTING FIBER-OPTIC CABLE LINE
UT	EXISTING UNDERGROUND TELECOM LINE
UT	EXISTING TELECOM/FIBER-OPTIC BOX
— — GAS — —	EXISTING GAS LINE
X	EXISTING FENCE EXISTING FORCEMAIN
ARV	EXISTING ARV
	EXISTING GRAVITY WASTEWATER LINE
(MH)	EXISTING MANHOLE
	CLEANOUT
W	EXISTING WATER LINE
X	EXISTING HYDRANT
SD	EXISTING STORM DRAIN
SD (SD)	EXISTING STORM DRAIN STRUCTURE
	EXISTING BUILDING
	CONCRETE
	GRAVEL
	ASPHALT
<u> </u>	GUARDRAIL
٠	BOLLARD

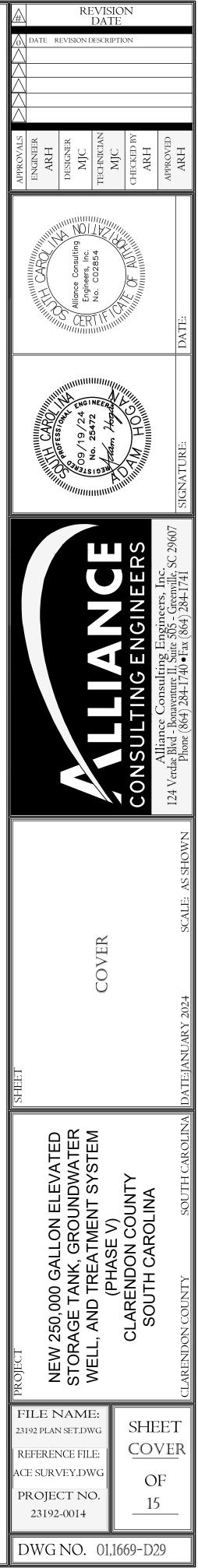


THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES AND, WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. SC LAW REQUIRES THE CONTRACTOR TO CALL THE UTILITY PROTECTION CENTER AT LEAST 72 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATION OF UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE THE RELOCATION OF ALL THE UTILITIES WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS.

CERTIFICATION STATEMENTS

I ______ HAVE PLACED MY SIGNATURE AND SEAL ON THE DESIGN DOCUMENTS SUBMITTED SIGNIFYING THAT I ACCEPT RESPONSIBILITY FOR THE DESIGN OF THE SYSTEM. FURTHER, I CERTIFY TO THE BEST OF MY KNOWLEDGE AND BELIEF THAT THE DESIGN IS CONSISTENT WITH THE REQUIREMENTS OF TITLE 48, CHAPTER 14 OF THE CODE OF LAWS OF SC, 1976 AS AMENDED, PURSUANT TO REGULATION 72–300 ET SEQ. (IF APPLICABLE), AND IN ACCORDANCE WITH THE TERMS AND CONDITIONS OF SCR100000.

		1
ID		
	PROPOSED CONTOUR MAJOR PROPOSED CONTOUR MINOR PROPOSED WATER VALVE PROPOSED WATER METER PROPOSED FORCE MAIN PROPOSED FORCE MAIN PROPOSED ARV PROPOSED GRAVITY WASTEWATER LINE PROPOSED GRAVITY WASTEWATER LINE PROPOSED MANHOLE PROPOSED WATER LINE PROPOSED WATER LINE PROPOSED HYDRANT PROPOSED HYDRANT PROPOSED STORM DRAIN PROPOSED STORM DRAIN STRUCTURE PROPOSED DEMOLITION PROPOSED DEMOLITION PROPOSED RIP RAP PROPOSED RIP RAP PROPOSED SILT FENCE PROPOSED SILT FENCE PROPOSED FENCE	
	RIGHT-OF-WAY PROPERTY LINE LIMITS OF DISTURBANCE EASEMENT WETLANDS AND BUFFER WATERWAY	



GENERAL CONSTRUCTION LAND DISTURBANCE NOTES:

SEE SHEETS C-9.0 - C-9.1 FOR EROSION CONTROL DETAILS AND SCDES STANDARD NOTES

SCDHEC LAND DISTURBANCE SEQUENCE

- RECEIVE NPDES APPROVAL FROM SCDES. 2. SCHEDULE PRE-CONSTRUCTION MEETING.
- 3. NOTIFY CLARENDON COUNTY/SCDHEC EQC REGIONAL OFFICE 48 HOURS PRIOR TO ANY LAND DISTURBING ACTIVITIES.
- 4. INSTALL TEMPORARY CONSTRUCTION ENTRANCE(S) AND PERIMETER AND EROSION CONTROLS (I.E. SILT FENCE, SEDIMENT TUBE) AS SHOWN AND AS NECESSARY
- BEGIN CONSTRUCTION WORK (I.E. CLEARING AND GRUBBING, UTILITY INSTALLATION, ETC.) CONTRACTOR TO MONITOR AND MAINTAIN PERIMETER AND EROSION CONTROL MEASURES THROUGHOUT CONSTRUCTION UNTIL FINAL STABILIZATION IS ACHIEVED, INCLUDING REPLACEMENT OF MEASURES AS NEEDED
- CONTRACTOR TO RE-GRADE AND STABILIZE PROJECT AREA AS CONSTRUCTION IS COMPLETED.
- CONTRACTOR MAY REMOVE PERIMETER AND EROSION CONTROL DEVICES ONCE FINAL STABILIZATION OF ENTIRE PROJECT AREA IS ACHIEVED.
- 8. SUBMIT NOTICE OF TERMINATION (NOT) TO SCDES.

ENVIRONMENTAL PROTECTION AND EROSION CONTROL NOTES

- CONTRACTOR TO INSTALL SILT FENCE ON LOW SIDE OF LIMITS OF DISTURBANCE FOR THE ENTIRE LENGTH OF THE PROJECT.
- CONTRACTOR TO UTILIZE DOUBLE ROW SILT FENCE ALONG THE LOW SIDE OF THE LIMITS OF DISTURBANCE SUCH THAT AN UNDISTURBED BUFFER IS MAINTAINED BETWEEN THE SILT FENCE AND THE SENSITIVE AREA WHEN CONSTRUCTION IS ADJACENT TO SENSITIVE AREAS SUCH AS WETLANDS OR WATER BODIES. THIS INCLUDES INSTALLING DOUBLE ROW SILT FENCE AT THE START AND END OF BORES FOR TRENCHLESS INSTALLATIONS AND IMPLEMENTATION OF BANK PROTECTION AND STABILIZATION AS NEEDED.
- CONTRACTOR TO UTILIZE SEDIMENT TUBES AS INLET PROTECTION AT STORM DRAINS AND UTILIZE SEDIMENT TUBES AND/OR EROSION CONTROL MATTING TO ENSURE PROPER STABILIZATION AND EROSION CONTROL WITHIN DRAINAGE DITCHES.
- ALL WATER COLLECTED AND PUMPED DURING DEWATERING ACTIVITIES SHALL BE DISPOSED OF IN UNDISTURBED UPLAND AREAS INTO DOUBLE STAKED HAY BALES. DISCHARGE LOCATIONS SHALL BE OVER UNDISTURBED SOIL, A MINIMUM OF 75 FEET FROM THE NEAREST WATER BODY. WETLAND AREA, OR INLET TO ALLOW FOR MAXIMUM OVERLAND FILTRATION OF SOIL PARTICLES.
- CONTRACTOR SHALL NOT REMOVE ANY TREES OTHER THAN THOSE SPECIFICALLY SHOWN TO BE REMOVED. CONTRACTOR SHALL TAKE PRECAUTIONS TO PROTECT ALL TREES NOT SPECIFICALLY SHOWN TO BE REMOVED. NO ACTIVITIES (EQUIPMENT, FILL PLACEMENT, ETC.) SHALL TAKE
- PLACE WITHIN THE DRIPLINE OF THE TREES TO REMAIN. IF NECESSARY, THE CONTRACTOR SHALL PROTECT TREES WITH SUITABLE BARRICADES. CONTRACTOR SHALL INSTALL CONSTRUCTION ENTRANCES AT ALL LOCATIONS WHERE CONSTRUCTION TRAFFIC ACCESSES A PAVED ROADWAY.

SCDOT CONSTRUCTION NOTES

NOTIFICATIONS

- SCDOT SHALL BE NOTIFIED WHEN WORK DEFINED IN THIS PERMIT STARTS AS WELL AS WHEN THE WORK IS COMPLETED. SCDOT NOTIFICATION SHALL REFERENCE THE SCDOT PERMIT NUMBER
- SCDOT SHALL BE GIVEN THE OPPORTUNITY OF ATTENDING ANY PRE -CONSTRUCTION MEETING PRIOR TO THE BEGINNING OF WORK.
- 3. A COPY OF THE APPROVED PERMIT WILL BE MADE AVAILABLE TO THE SCDOT AT THE WORK SITE AT ALL TIMES.
- ALL WORK PERFORMED IN CONNECTION WITH THIS PERMIT SHALL CONFORM TO THE SCDOT "A POLICY FOR ACCOMODATING UTILITIES ON HIGHWAY RIGHT RIGHT-OF-WAY" MOST CURRENT EDITION
- . WORK SHALL COORDINATE WITH SCDOT CONTRACTOR AS TO NOT INTERFERE NOR DELAY WORK BEING PERFORMED FOR SCDOT RESURFACING.
- 6. ALL CROSSLINE PIPES ARE TO BE LOCATED AND FLAGGED PRIOR TO BEGINNING OPERATION. CONTRACTOR TO MAINTAIN ACCESS TO ALL PROPERTY OWNERS AT ALL TIMES DURING CONSTRUCTION UNTIL FINAL INSPECTION AND APPROVAL IS OBTAINED. IF IN THE COURSE OF CONSTRUCTION DRIVEWAYS ARE TO BE CUT AND ACCESS IMPAIRED THE CONTRACTOR WILL BE RESPONSIBLE TO INFORM EACH RESIDENT OF THE INCONVENIENCE AND THE TIME, DATE AND LENGTH OF THE WORK TO BE DONE. REPLACEMENT OF DRIVEWAY MATERIAL SHALL BE IN KIND.

WORK WITHIN SCDOT R/W

- ALL CLEARING INSIDE THE SCDOT RIGHT-OF-WAY AND /OR ANY PROPOSED TEMPORARY CONSTRUCTION EASEMENTS WILL BE DONE IN ACCORDANCE WITH ALL SCDOT SPECIFICATIONS. ALL STUMPS AND DEBRIS WILL BE REMOVED FROM THE RIGHT-OF-WAY AND DISPOSED OF OFF-SITE BY THE CONTRACTOR. THEN PROPER DRAINAGE WILL WILL BE RESTORED TO ALL DISTURBED AREAS.
- ALL EXCAVATED MATERIAL SHALL BE PLACED ON THE SIDE OF THE TRENCH AWAY FROM THE TRAVELED ROADWAY. NO EXCAVATED MATERIAL OR SPOIL IS TO BE PLACED ON THE PAVEMENT WITHOUT THE PERMISSION OF SCDOT, AND IF PERMISSION IS GRANTED, THIS MATERIAL MUST BE REMOVES DAILY, AS SOON AS POSSIBLE. THE ROADWAY IS TO BE CLEARED OF ALL THE MATERIALS IN A MANNER AS TO PROTECT THE EXISTING PAVEMENT. ANY PAVEMENT DESTROYED, OR MARKED BY THIS OPERATION WILL BE REMOVED AND REPLACED AS REQUIRED.
- 10. ALL VALVES AND MANHOLES SHALL CONFORM TO THE EXISTING ELEVATION OF THE ROADWAY OR SHOULDER AND CONFORM TO THE ACCEPTED STANDARD. WHEN THE VALVES AND MANHOLES WILL BE LOCATED OUT OF THE PAVEMENT, THEY SHALL NOT BE PLACED IN A DITCH FLOW LINE WITHOUT ENGINEER APPROVAL AND 12-INCHES ADDITIONAL COVER, AT CONTRACTORS EXPENSE.
- THERE SHALL BE NO EXCAVATION OF SOIL NEARER THAN TWO FEET FROM ANY PUBLIC UTILITY POLE OR APPURTENANT FACILITY WITHOUT THE WRITTEN CONSENT OF THE OWNER THEREOF. SPECIAL PERMISSION OF THE SOUTH CAROLINA DEPARTMENT OF TRANSPORTATION AFTER AN OPPORTUNITY TO BE HEARD IS GIVEN THE OWNER OF SUCH POLE OR APPURTENANT FACILITY MAY BE GIVEN.
- IF THE SIDE OF THE TRENCH, PIT OR ANY EXCAVATION IS WITHIN 3-FT OF THE EXISTING ROADWAY EDGE OF PAVEMENT, THE EXCAVATED AREA WILL BE BACKFILLED ENTIRELY WITH FLOWABLE FILL TO AN ELEVATION OF 6 INCHES FROM THE EXISTING GROUND ELEVATION. THEN BROUGHT TOO GRADE WITH SUITABLE TOPSOIL, COMPACTED TO 95% COMPACTION, GRADED, AND GRASSED AS REQUIRED TO ELIMINATE ANY EROSION.
- 13. APPLICANT SHALL BE RESPONSIBLE FOR THE PLACEMENT OF SECURED STEEL PLATES ON OPEN CUT OF PAVEMENT IF WORK IS INCOMPLETE OR LEFT OVERNIGHT 14. ALL OPEN EXCAVATIONS WITHIN SCOOT RIGHT-OF-WAY SHALL BE PROPERLY BARRICADED WHEN WORK IS NOT BEING PERFORMED. BORE PITS SHALL BE SAFELY
- SECURED WHEN NOT IN USE AND CLOSED IMMEDIATELY AFTER INSTALLATION. 15. ALL PRESSURIZED UTILITY PIPE LINES CROSSING SCDOT ROADWAY EITHER IN AN OPEN CUT OR BY A BORING OPERATION ARE TO BE ENCASED IN A STEEL CASING OR BE DUCTILE IRON PIPE (DIP) AS INDICATED ON PERMIT DRAWINGS.

RESURFACING AND RESTORATION WITHIN SCDOT R/W

- 16. TRENCH TO BE PROPERLY BACK -FILLED AND THOROUGHLY TAMPED PER NOTE 9 IN ACCORDANCE WITH SCDOT STANDARDS. THE ENTIRE DISTURBED AREA SHALL BE RE-SHAPED AND DRESSED IN A WORKMANSHIP LIKE MANNER AND ENSURING POSITIVE DRAINAGE.
- 7. WHEN ROADS ARE RESURFACED, SHOULDERS SHALL BE REGRADED TO THE EDGE OF PAVEMENT TO CONFORM TO SCDOT SPECIFICATIONS. 18. THE DITCHES, SHOULDERS, AND/OR DRAIN PIPES DISTURBED, REMOVED, OR OTHERWISE DAMAGED DURING CONSTRUCTION SHALL BE IMMEDIATELY
- RE-ESTABLISHED TO PROPER GRADE AND ORIGINAL CROSS SECTION TO PROVIDE POSITIVE DRAINAGE, REPLACED OR RESTORED TO ORIGINAL SIZE AND MATERIAL, STABILIZED, AND ALL DRAIN PIPES CLEARED TO ENSURE PROPER AND ADEQUATE DRAINAGE. ANY CHANGE IN PIPE SIZE OR TYPE WILL REQUIRE APPROVAL FROM SCDOT PRIOR TO CHANGE BEING MADE. ANY NEW PIPE WILL REMAIN UNCOVERED UNTIL SCDOT INSPECTION HAS BEEN COMPLETED AT WHICH POINT IT MAY BE COVERED AND COMPACTED AS REQUIRED.
- 19. APPLICANT SHALL COMPLETE ALL REPAIRS OR REPLACEMENTS OF ASPHALT, SIDEWALKS, CURB AND GUTTER, PAVEMENT MARKINGS INCLUDING RPM'S USING THE APPROPRIATE DETAILS PER SCOOT STANDARD SPECIFICATIONS. ANY DISTURBED ITEMS SHALL BE RETURNED TO THEIR ORIGINAL STATE. ANY EXISTING PAVEMENT MARKINGS OR TRAFFIC SIGNAGE ALTERED DURING THE INSTALLATION OF THIS PERMITTED CONSTRUCTION WILL BE REPLACED BY THE PERMITTEE TO THEIR ORIGINAL CONDITION AS SOON AS POSSIBLE.
- 20. APPLICANT SHALL BE RESPONSIBLE FOR ALL PAVEMENT REPAIRS IF BORING PROCEDURE CAUSES ANY DAMAGE TO THE PAVEMENT. IF DAMAGE OCCURS, APPLICANT SHALL NOTIFY THE SCDOT MAINTENANCE PERMITS OFFICE IMMEDIATELY.
- 21. APPLICANT SHALL BE RESPONSIBLE FOR ALL FUTURE MAINTENANCE OF ANY PAVEMENT DISTURBANCE CAUSED BY THE UTILITY INSTALLATION OR REPAIR. 22. RESTORATION WORK IS TO BE PERFORMED AS SOON AS POSSIBLE AFTER CONSTRUCTION SUCH THAT CONSTRUCTION IS NO FURTHER THAN 2000-LF AHEAD OF RESTORATION. ANY AREA BEHIND THE WORK ZONE WILL BE RESTORED TO ITS TYPICAL SECTION AND PREPARED FOR FINAL GRADING, AND GRASSING IMMEDIATELY AS WORK PROGRESSES.
- 23. CLEANUP AND EROSION CONTROL MEASURES IN AREAS WHERE CONSTRUCTION HAS BEEN COMPLETED WILL BE CONDUCTED DURING THE LIFE OF THE PROJECT. 24. WHEN IN SCDOT RIGHT OF WAY, THE ENTIRE DISTURBED AREA SHALL BE TOP -SOILED USING 3 INCHES OF SELECTED MATERIAL AND RE -GRASSED TO SCDOT SPECIFICATIONS. ALL AREAS DISTURBED SHALL BE RESEEDED AND MONITORED UNTIL VEGETATION IS ESTABLISHED. SEE SCDOT "POLICY FOR SEEDING AND EROSION CONTROL MEASURES INSIDE ROADWAY RIGHTS-OF-WAY".

TRAFFIC CONTROL WITHIN SCDOT R/W

- 25. CONTRACTOR SHALL SUBMIT 40 HOUR NOTIFICATION FORM TO SCDOT AND SHALL OBTAIN AN APPROVED TRAFFIC CONTROL PLAN BEFORE CONSTRUCTION BEGINS.
- 26. FLASHING ARROW BOARDS SHALL BE USED FOR ALL LANE CLOSURES ON PRIMARY ROUTES AND/OR ROADS WITH HIGH TRAFFIC VOLUMES. 27. TRAFFIC CONTROL, LIGHTS, SIGNS AND FLAG-MEN WILL BE FURNISHED BY CONTRACTOR AND WILL CONFORM TO PART VI OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
- 28. THE CONTRACTOR SHALL BE RESPONSIBLE FOR IMMEDIATE REMOVAL OF SUCH TRAFFIC HAZARDS AS MUD, DEBRIS, LOOSE STONE, AND TRASH AS MAY BE WASHED OR SPILLED ON THE TRAVELED ROADWAY AS A RESULT OF THE PROPOSED WORK.
- 29. TRAFFIC CONTROL SHALL BE PROVIDED AND MAINTAINED BY THE CONTRACTOR PER SCDOT SPECIFICATIONS AND STANDARD DRAWING SERIES 601 AND 610, AS APPLICABLE, AND PER MUTCD SPECIFICATION SECTION 6H.01 (LATEST EDITION).
- 30. CONTRACTOR SHALL ENSURE ALL TRAFFIC SAFETY IS UPHELD AND PROVIDE ONE (1) LANE OPEN AT ALL TIMES.

COUNTY PRIOR TO CONNECTING TO ANY EXISTING WATER FACILITIES AND A CLARENDON COUNTY INSPECTOR MUST BE PRESENT WHILE CONNECTING.

INSPECTIONS

WATER CONSTRUCTION GENERAL NOTES

STANDARDS AND SPECIFICATIONS

ALL WATER CONSTRUCTION MUST CONFORM TO ALL CLARENDON COUNTY STANDARDS AND SPECIFICATIONS.

2. CONTRACTOR TO USE THE PIPE MATERIAL AS IT IS REFERENCED IN THE SPECIFICATIONS AND SHOWN ON THE CONSTRUCTION DRAWINGS. ALL PROPOSED PVC PIPE SHALL HAVE A MINIMUM OF 36" OF COVER; CONTRACTOR TO NOTIFY THE OWNER AND ENGINEER IF ANY PROJECT CONDITIONS REQUIRE A CHANGE IN PIPE MATERIAL. 3. THE CONTRACTOR SHALL PERFORM ALL CONSTRUCTION IN ACCORDANCE WITH THE LINES AND GRADES SHOWN ON THE PLANS AND TO TOLERANCES STATED HEREIN OR IN THE

SPECIFICATIONS. CONSTRUCTION SHALL BE CARRIED OUT "IN THE DRY". THE CONTRACTOR SHALL REVIEW SITE CONDITIONS AND DETERMINE METHODS AND EXTENT OF DEWATERING

NECESSARY AND SHALL INCLUDE COSTS OF DEWATERING IN THE BID. NO ADDITIONAL COMPENSATION SHALL BE PROVIDED FOR CONTROL OF GROUND OR SURFACE WATER OR FOR ADDITIONAL MATERIALS OR REWORK REQUIRED AS A RESULT OF INADEQUATE OR INSUFFICIENT DEWATERING. ALL WORK TO BE PERFORMED FOR THE COMPLETION OF THIS PROJECT SHALL BE CONSTRUCTED ACCORDING TO THE BEST PRACTICES OF THE INDUSTRY AND IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE, COUNTY AND/OR CITY CODES, ORDINANCES, STANDARDS AND PERMIT CONDITIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACING AND/OR REPAIRING ANY PAVEMENT, DRIVEWAYS, SIDEWALKS, CURBS, AND ANY OTHER EXISTING STRUCTURE THAT MUST BE CUT, REMOVED, OR IS DAMAGED DURING OR AS A RESULT OF CONSTRUCTION. ALL ROAD REPAIRS SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF SOUTH CAROLINA DEPARTMENT OF TRANSPORTATION SPECIFICATIONS.

COMPACTION OF THE BACK FILL OF ALL TRENCHES SHALL BE COMPACTED TO 95% STANDARD PROCTOR DENSITY. BACKFILL MATERIAL SHALL BE FREE FROM ROOTS, STUMPS, OR OTHER FOREIGN DEBRIS, AND SHALL BE PLACED AT OR NEAR OPTIMUM MOISTURE. CORRECTION OF ANY TRENCH SETTLEMENT WITHIN A YEAR FROM DATE OF APPROVAL WILL BE THE RESPONSIBILITY OF THE CONTRACTOR.

PERMITS, EASEMENTS, AND ACCESS

8. ALL WATER EASEMENTS MUST BE DRESSED AND GRASSED TO THE EXISTING GROUND SURFACE ELEVATION AND TO CONTROL EROSION IN ACCORDANCE WITH EASEMENT PLATS PRIOR TO ACCEPTANCE. TREES SHALL NOT BE PLANTED IN THE PERMANENT EASEMENT AREA. IT IS THE RESPONSIBILITY OF THE OWNER TO ACQUIRE ALL EASEMENTS, ACCESS, AND/OR RIGHTS-OF-WAY, AS SHOWN IN THE CONSTRUCTION PLANS. CONTRACTOR SHALL PERFORM AND ACCOMPLISH ALL WORK, AS SHOWN IN THE CONSTRUCTION PLANS, WITHIN THE EASEMENTS, ACCESS, AND/OR RIGHTS-OF-WAY, AS FURNISHED BY OWNER. CONTRACTOR TO ENSURE ALL EASEMENTS, ACCESS, AND/OR RIGHTS-OF-WAY, AS FURNISHED BY OWNER, HAVE BEEN OBTAINED AND ARE ABIDED BY THROUGHOUT

CONSTRUCTION 10. ALL PROPERTIES DISTURBED DURING OR AS A RESULT OF CONSTRUCTION SHALL BE RESTORED TO THE PRE-EXISTING CONDITION OR BETTER. 11. THE CONTRACTOR SHALL NOTIFY PROPERTY OWNERS IN WRITING AT LEAST TWO (2) BUSINESS DAYS PRIOR TO ANY INCONVENIENCE OR DISRUPTION OF SERVICES AS A RESULT

OF CONSTRUCTION 12 CONTRACTOR SHALL NOT BLOCK ANY PROPERTY INGRESS/EGRESS AND IF NECESSARY, SHALL PROVIDE TEMPORARY CONSTRUCTION ACCESS TO PROPERTY OWNERS THROUGHOUT THE PROJECT. THE CONTRACTOR MAY STORE MATERIAL, WASTE, BORROW AND CONSTRUCTION EQUIPMENT WITHIN THE EXISTING UTILITY EASEMENTS AND PRE-DETERMINED LAY-DOWN AREAS BUT MAY NOT STORE OUTSIDE THOSE AREAS. CONTRACTOR IS RESPONSIBLE FOR THE REMOVAL OF ALL EXCESS EXCAVATED MATERIAL TO AN APPROVED LOCATION, REGARDLESS OF CONTENT.

EXISTING CONDITIONS

13. LOCATIONS, ELEVATIONS AND DIMENSIONS OF EXISTING UTILITIES, STRUCTURES AND OTHER FEATURES ARE SHOWN ACCORDING TO THE BEST INFORMATION AVAILABLE AT THE TIME OF THE PREPARATION OF THESE DRAWINGS AND DO NOT PURPORT TO BE ABSOLUTELY CORRECT. THE CONTRACTOR SHALL VERIFY THE LOCATIONS, ELEVATIONS AND DIMENSIONS OF ALL EXISTING UTILITIES, STRUCTURES, ETC. AFFECTING THEIR WORK PRIOR TO CONSTRUCTION REFER TO REFERENCES FOR ALL INFORMATION INCORPORATED AS THE EXISTING CONDITIONS. CONTRACTOR TO VERIFY LOCATIONS OF UNDERGROUND UTILITIES AND STORM DRAINAGE PRIOR TO DIGGING AND IS RESPONSIBLE FOR ANY DAMAGES TO EXISTING UTILITIES, STRUCTURES, AND OTHER FEATURES WHICH MAY OCCUR DURING CONSTRUCTION. 14. CONTRACTOR TO FIELD VERIFY LOCATION AND INVERT ELEVATIONS OF WATER LINES FOR CONNECTION TO EXISTING WATER SYSTEMS. CONTRACTOR TO NOTIFY CLARENDON

EXISTING UTILITIES AND CONFLICTS

15. IF UTILITY FIELD RELOCATIONS ARE REQUIRED, THE CONTRACTOR SHALL COORDINATE THEIR CONSTRUCTION SCHEDULE WITH ALL UTILITY COMPANIES AS WELL AS ANY EFFECTED CITY AND COUNTY DEPARTMENTS BY PROVIDING A MINIMUM OF 48 HOURS NOTICE OF WHEN CONSTRUCTION WILL COMMENCE IN ORDER TO PERMIT FIELD LOCATION OF UTILITY LINES PRIOR TO CONSTRUCTION. A TOLL-FREE NUMBER, 1-888-721-7787 IS AVAILABLE TO ASSIST IN SUCH COORDINATION EFFORTS BUT DOES NOT NECESSARILY REPRESENT ALL UTILITY COMPANIES IN THE AREA REFER TO UTILITY PROVIDER CONTACTS.

16. ALL UTILITIES SHALL BE KEPT IN OPERATION EXCEPT WITH THE EXPRESS WRITTEN CONSENT OF THE UTILITY OWNER. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PRESERVE EXISTING UTILITIES. ANY DAMAGE TO EXISTING UTILITIES AS A RESULT OF THE CONTRACTOR'S ACTIONS SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE. 17. THE CONTRACTOR SHALL CONTACT THE ENGINEER PRIOR TO PROCEEDING WITH ANY SITE WORK WHICH INVOLVES A CONFLICT THAT HAS ARISEN DURING CONSTRUCTION OF ANY WORK SHOWN ON THESE DRAWINGS.

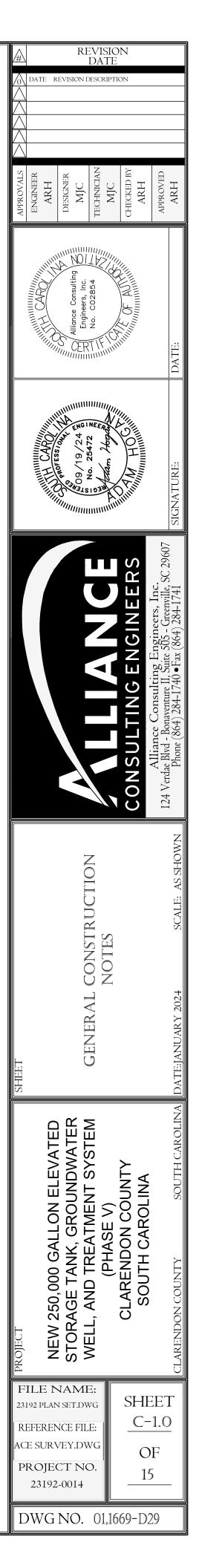
18. THE CONTRACTOR SHALL CAREFULLY STUDY AND COMPARE THE CONSTRUCTION DOCUMENTS AND SHALL IMMEDIATELY REPORT THE ENGINEER ANY DISCREPANCIES OR OMISSIONS DISCOVERED ON THE PLANS OR AT THE SITE. THE CONTRACTOR SHALL TAKE FIELD MEASUREMENTS TO VERIFY THAT ALL LOCATIONS ARE CORRECT PRIOR TO COMMENCING CONSTRUCTION

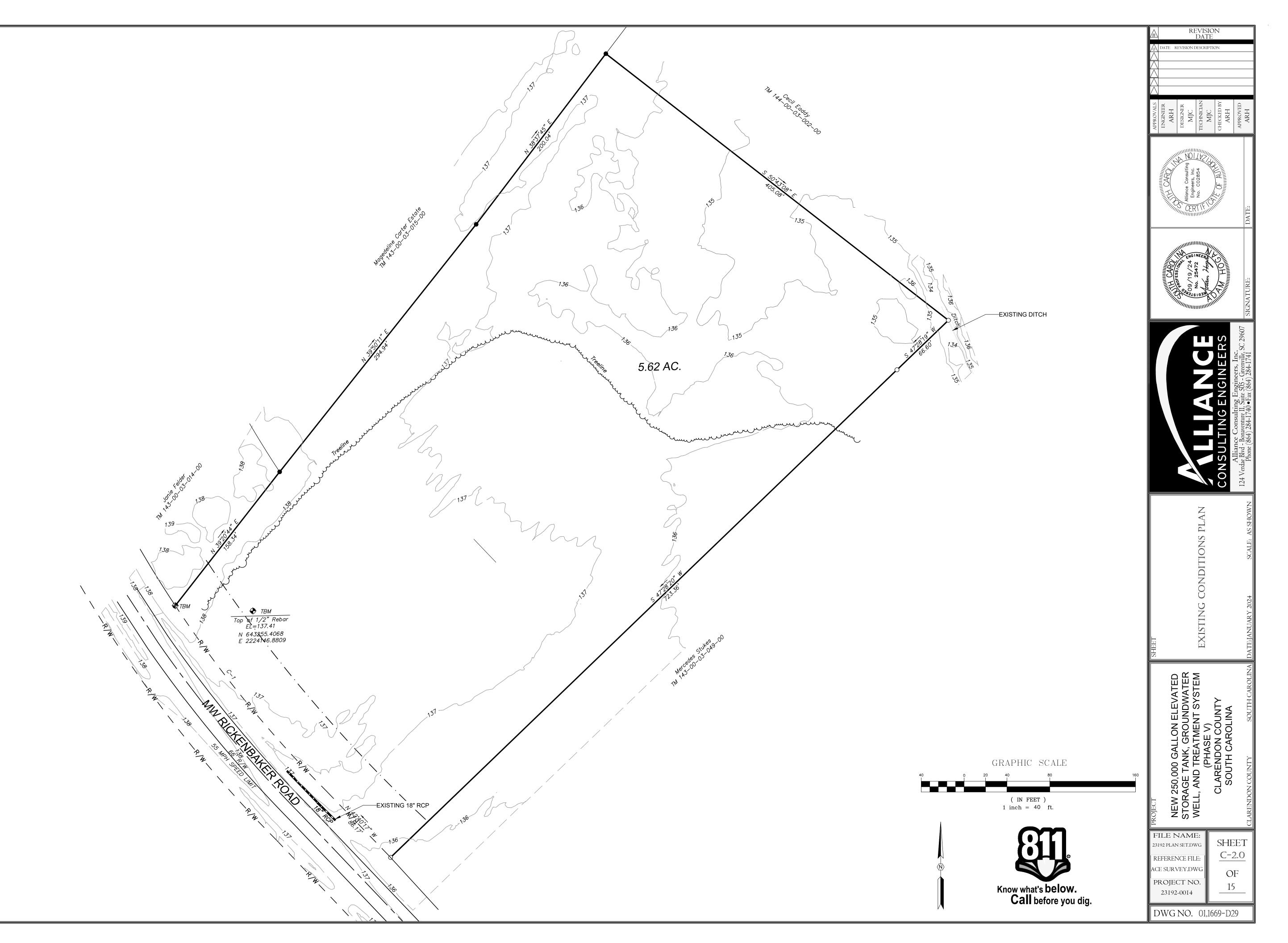
19. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING THE APPROPRIATE UTILITY COMPANY OR OWNER AS APPLICABLE TO STABILIZE UTILITY POLES AND REMOVE AND REPLACE EXISTING GUY WIRES AS NECESSARY FOR CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COST ASSOCIATED WITH THIS WORK. 20. CONTRACTOR SHALL COORDINATE WITH CLARENDON COUNTY WATER AND SEWER DEPARTMENT PRIOR TO BEGINNING CONSTRUCTION ON THE COUNTY'S FACILITIES TO REVIEW MATERIALS. A CLARENDON COUNTY INSPECTOR MUST BE PRESENT WHEN CONNECTING TO THE COUNTY'S FACILITIES. A MINIMUM OF 48 HOUR NOTICE SHALL BE GIVEN FOR ANY

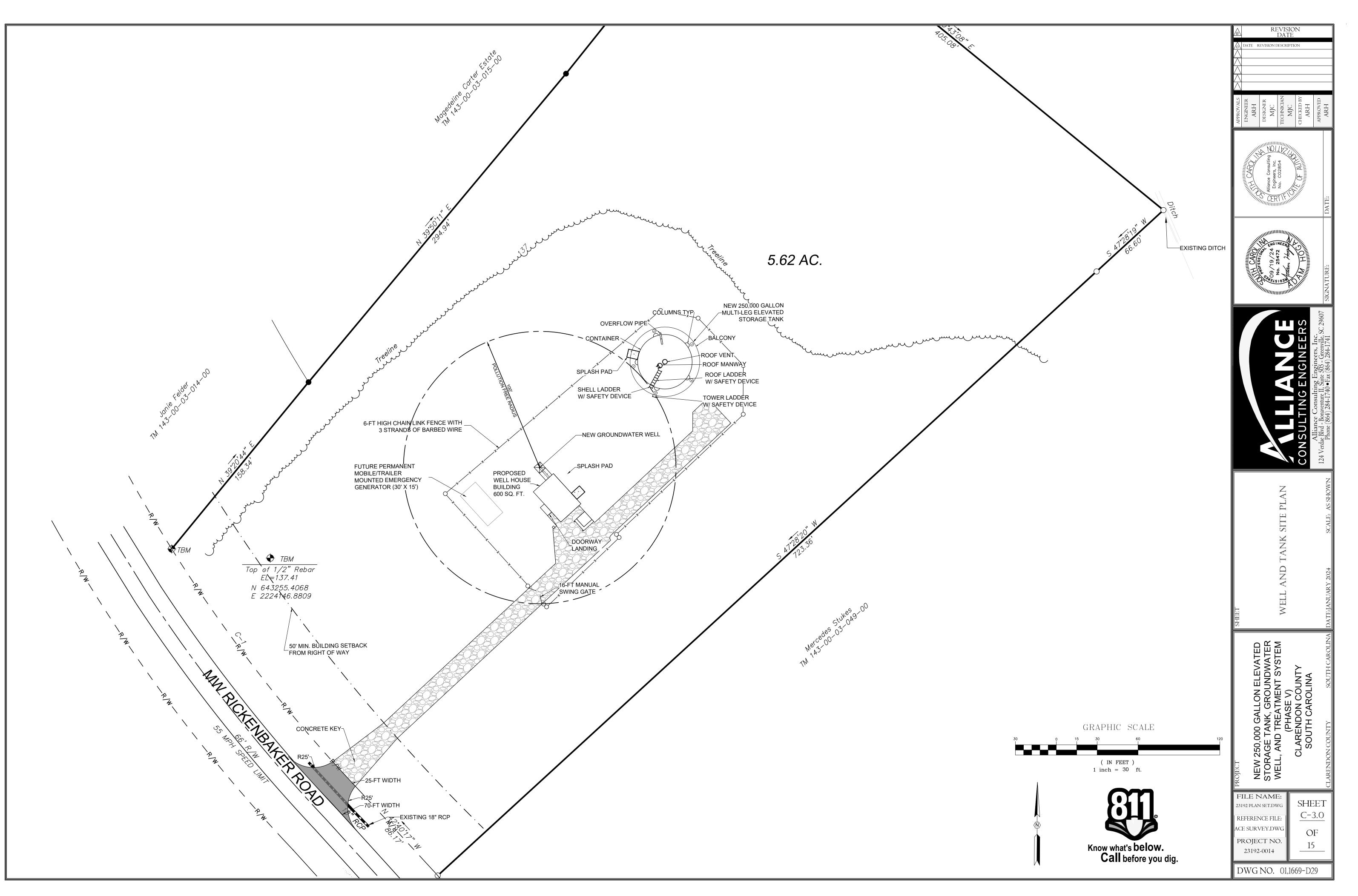
PROJECT COMPLETION AND CLOSEOUT

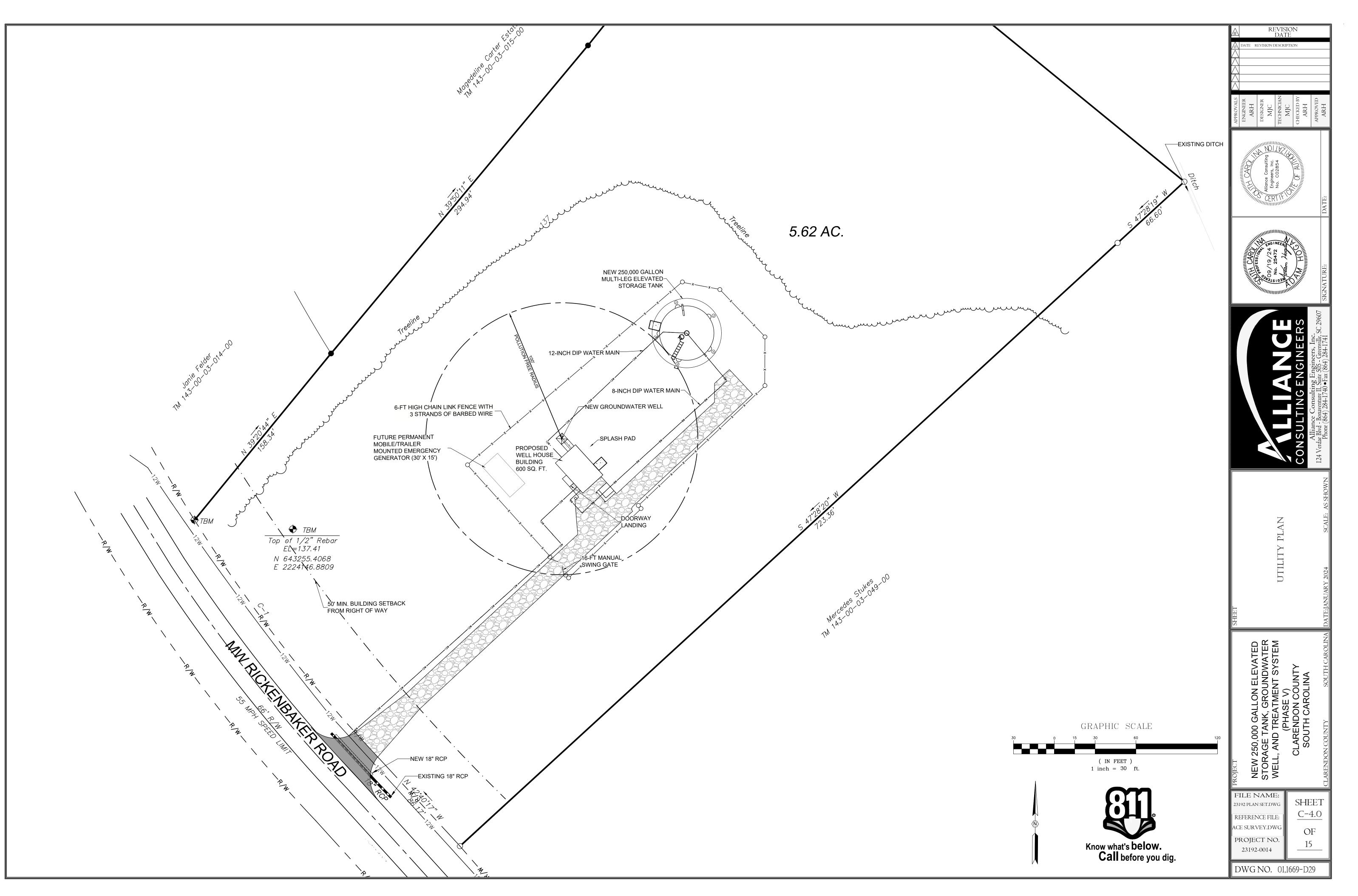
21. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SUPPLYING RECORD DRAWING INFORMATION INCLUDING, BUT NOT LIMITED TO, FINISHED GRADE ELEVATIONS, TIES TO EXISTING LINES OR STRUCTURES, VALVES, BENDS, SERVICE CONNECTIONS, METERS, ELEVATIONS OF PIPES WHERE DEPTH OF COVER VARIES FROM DESIGN, WASTEWATER OR STORMWATER MANHOLE RIM/TOP AND INVERT ELEVATIONS, CLEANOUTS AND SERVICE CONNECTIONS, PLUS LOCATIONS, DIMENSIONS AND ELEVATIONS OF ALL OTHER CONSTRUCTION COMPONENTS WHICH VARY FROM THE DESIGN.

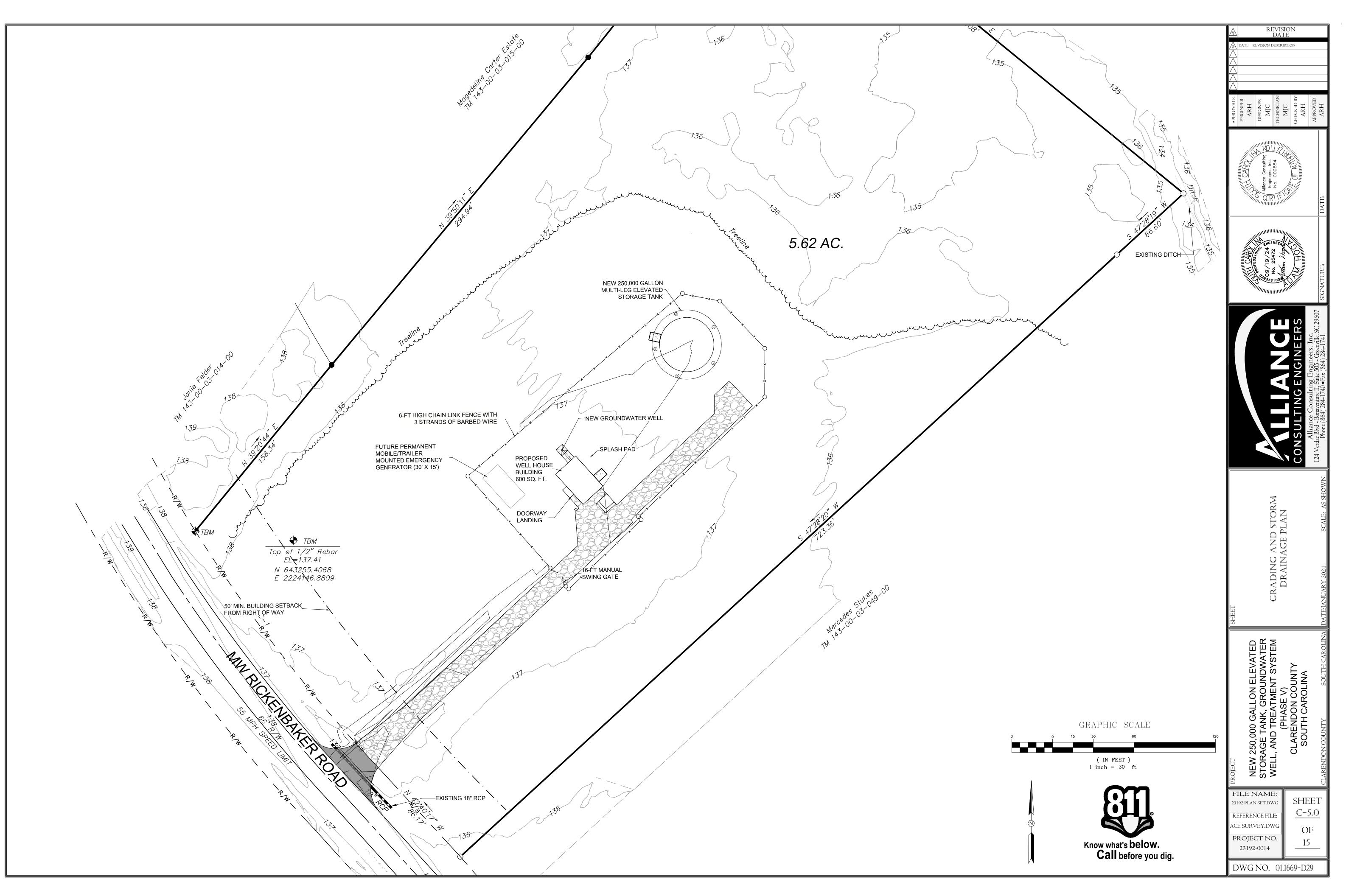
22. CONTRACTOR SHALL WARRANTY ALL WORK AND MATERIALS FOR A MINIMUM PERIOD OF ONE (1) YEAR FROM COMPLETION DATE OF THE PROJECT.

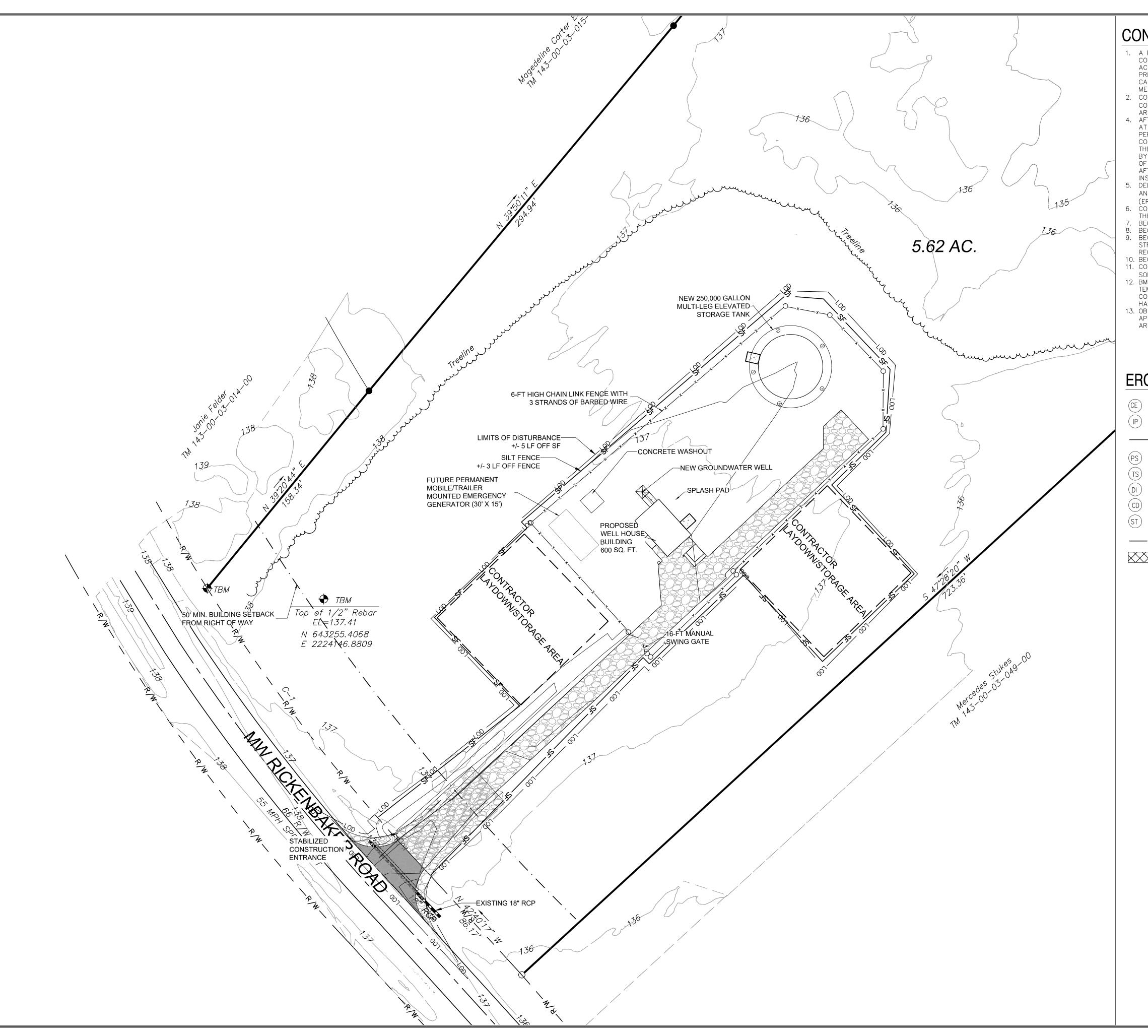












CONSTRUCTION SEQUENCING:

 A PRE-CONSTRUCTION CONFERENCE MUST BE HELD WITH CLARENDON COUNTY AT LEAST 48 HOURS PRIOR TO BEGINNING ANY LAND DISTURBING ACTIVITIES.THE OWNER, DESIGN ENGINEER, AND CONTRACTOR MUST BE PRESENT AND HAVE THE N.O.I. APPROVAL LETTER FROM SCDES BEFORE CALLING CLARENDON COUNTY AT 803-433-3256 TO SCHEDULE THIS MEETING.

 CONTRACTOR TO ENSURE THAT ALL MATERIALS (I.E. BMPS, OUTLET CONTROL STRUCTURE, OUTLET PIPE, ETC.) REQUIRED PER THESE PLANS ARE ON-SITE PRIOR TO COMMENCING ANY LAND DISTURBANCE ACTIVITIES.
AFTER CONSTRUCTION ACTIVITIES BEGIN, INSPECTIONS MUST BE CONDUCTED AT A MINIMUM OF AT LEAST ONCE EVERY CALENDAR WEEK, WITH NO TIME PERIOD BETWEEN INSPECTIONS EXCEEDING 9 DAYS, AND MUST BE CONDUCTED UNTIL FINAL STABILIZATION IS REACHED ON ALL AREAS OF THE CONSTRUCTION SITE. IT IS RECOMMENDED THAT BMPS BE ASSESSED

BY THE CONTRACTOR WITHIN 24 HOURS OF THE END OF A STORM EVENT OF 1.0 INCH OR GREATER, AS WELL AS DURING THE FIRST RAIN EVENT AFTER THE INITIATION OF CONSTRUCTION ACTIVITIES, AFTER THE INSTALLATION OF BMPS.

 DELINEATE LIMITS TO DISTURBANCE. INSTALL CONSTRUCTION ENTRANCE AND BEGIN CLEARING OPERATIONS FOR INSTALLATION OF PERIMETER BMP'S (EROSION AND SEDIMENT CONTROL DEVICES.)
CONTRACTOR TO CONSTRUCT STORMWATER BASIN AND BMPS INDICATED ON

 CONTRACTOR TO CONSTRUCT STORMWATER BASIN AND BMPS INDICATED ON THESE PLANS.
BEGIN CLEARING AND GRADING.

8. BEGIN CONSTRUCTION OF UTILITIES.

 BEGIN SUB-GRADE PREPARATION AND CONSTRUCTION OF STORM DRAINAGE STRUCTURES. INSTALL INLET PROTECTION AT ALL INLETS PRIOR TO THEM RECEIVING RUN-OFF.
BEGIN INSTALLATION OF CURB, GUTTER, AND PAVING.

11. COMPLETE FINAL GRADING, PREPARE TOP SOIL, AND INSTALL

SOD/LANDSCAPING OVER ALL AREAS INDICATED ON THE LANDSCAPE PLAN. 12. BMPS ARE TO BE MAINTAINED THROUGHOUT CONSTRUCTION. ALL TEMPORARY PERIMETER BMPS WILL NOT BE REMOVED UNTIL ALL

CONSTRUCTION ACTIVITIES ARE COMPLETE AND THE DISTURBED AREAS HAVE BEEN STABILIZED TO A MINIMUM OF 70% COVERAGE. 13. OBTAIN APPROVAL FROM SCDES FOR NOTICE OF TERMINATION. UPON APPROVAL, REMOVE ALL REMAINING TEMPORARY BMPS AND STABILIZE AREAS DISTURBED BY THE REMOVAL OF THE BMPS.

EROSION CONTROL LEGEND:

(CE) CONSTRUCTION ENTRANCE (STD. SC-05)

(IP) INLET PROTECTION (TYPE C STD. SC-09, TYPE F STD. SC-11)

(PS) PERMANENT STABILIZATION (SOD)

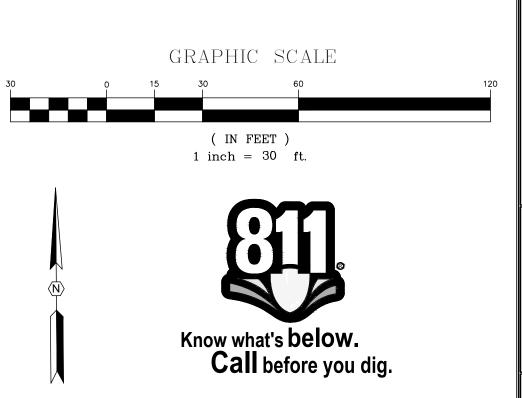
(TS)TEMPORARY STABILIZATION (MATTING AND SEEDING PER TEMPORARY GRASSING SCHEDULE)(DI)TEMPORARY DIVERSION

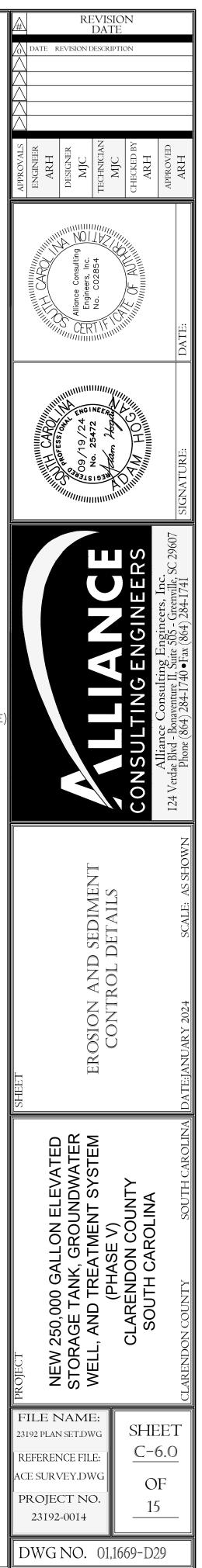
(CD) ROCK CHECK DAM

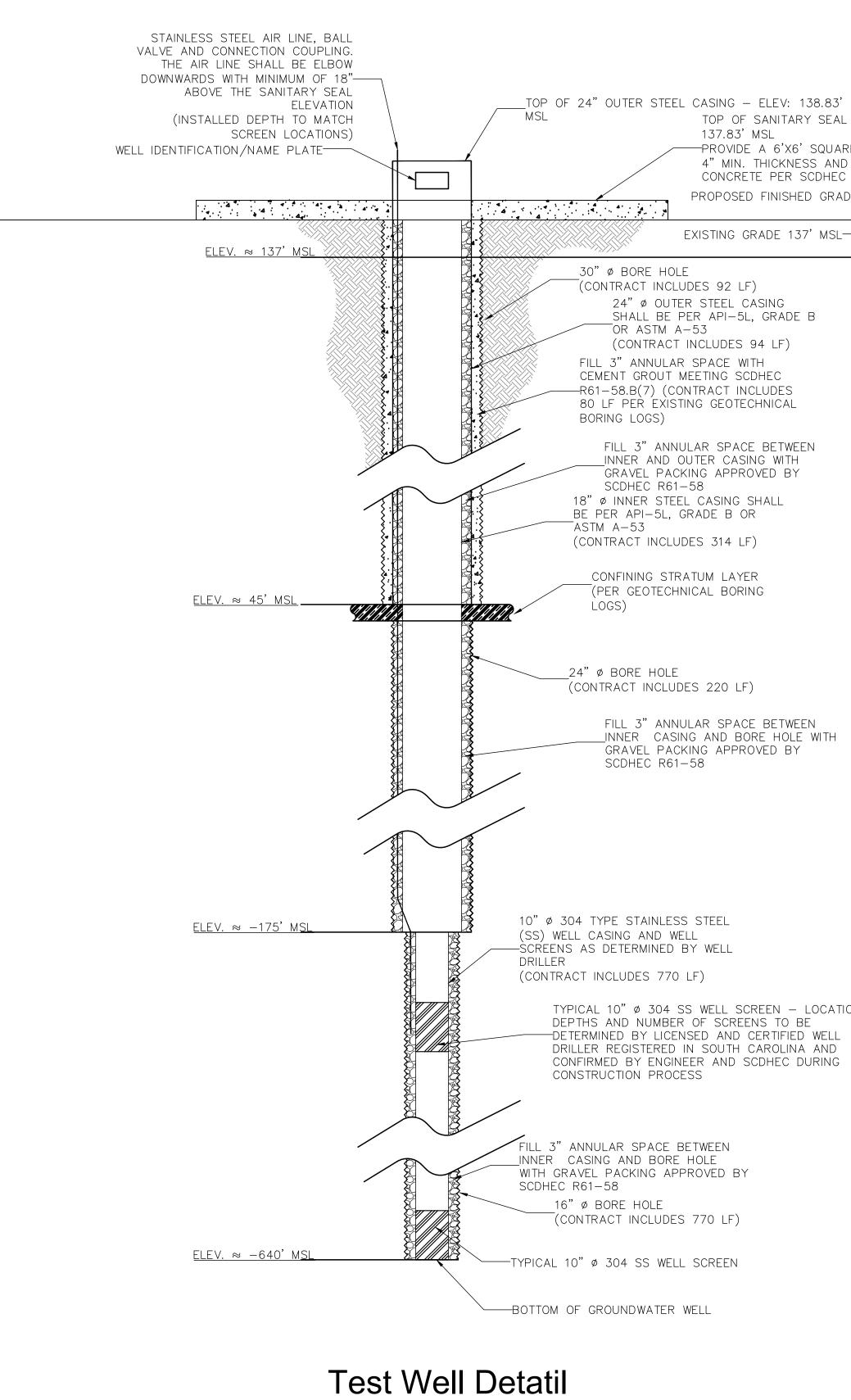
(ST) TEMPORARY SEDIMENT TRAP

LIMITS OF DISTURBANCE

GEOTEXTILE EROSION CONTROL BLANKET







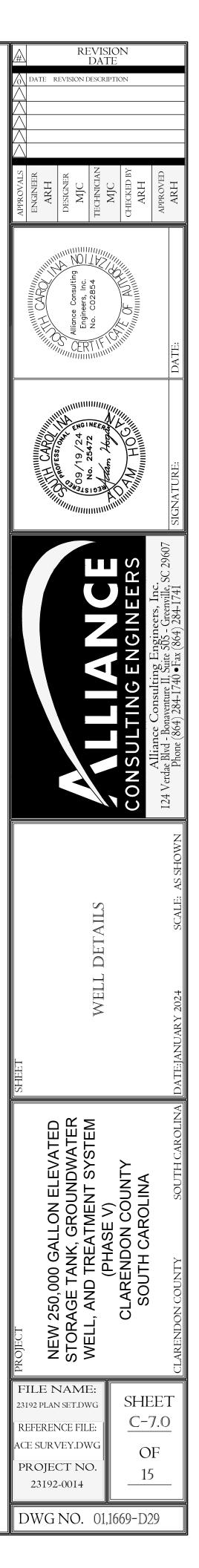
Not To Scale

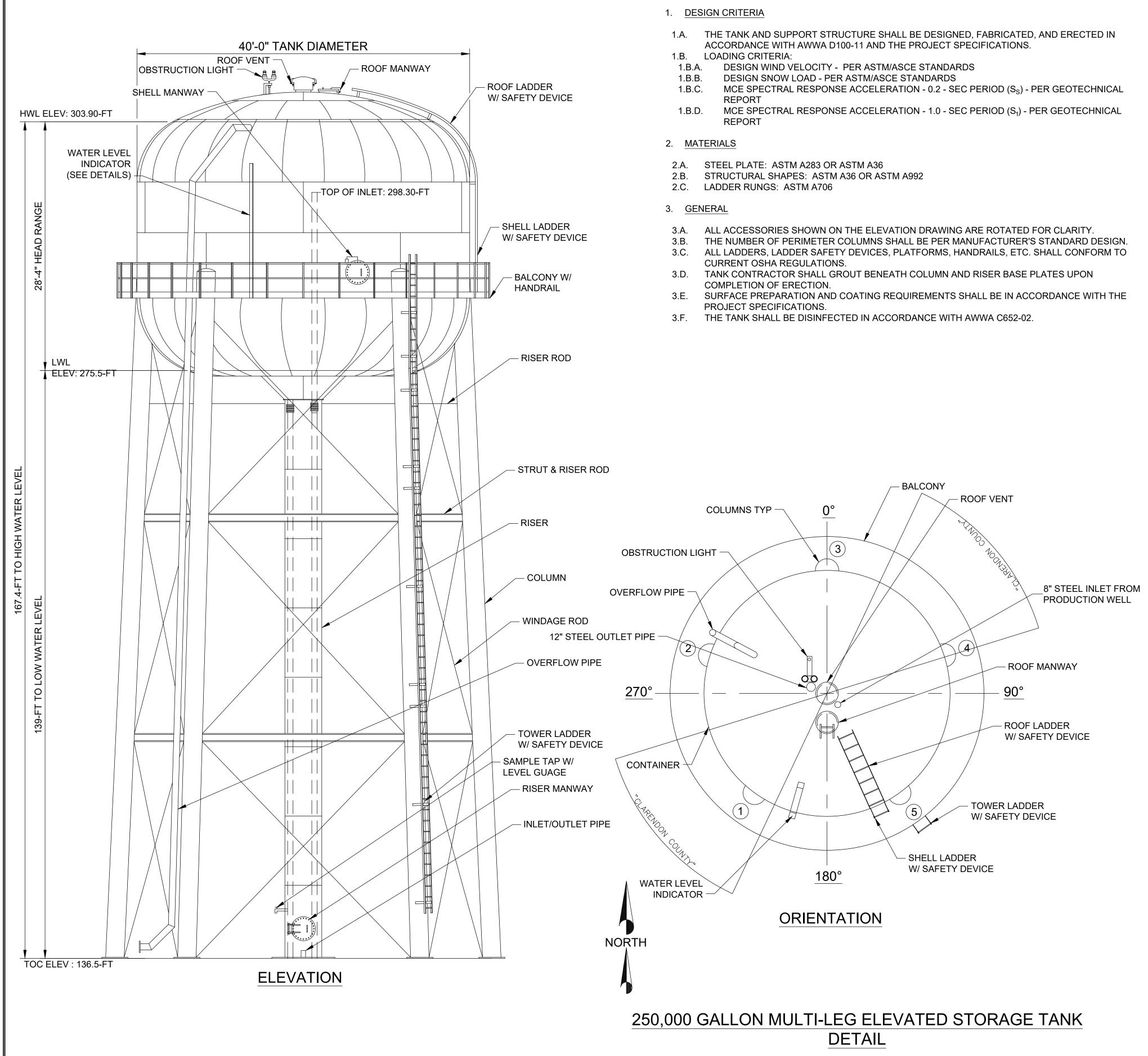
TYPICAL 10" Ø 304 SS WELL SCREEN – LOCATION DEPTHS AND NUMBER OF SCREENS TO BE --DETERMINED BY LICENSED AND CERTIFIED WELL DRILLER REGISTERED IN SOUTH CAROLINA AND CONFIRMED BY ENGINEER AND SCDHEC DURING

INNER AND OUTER CASING WITH GRAVEL PACKING APPROVED BY 18" Ø INNER STEEL CASING SHALL

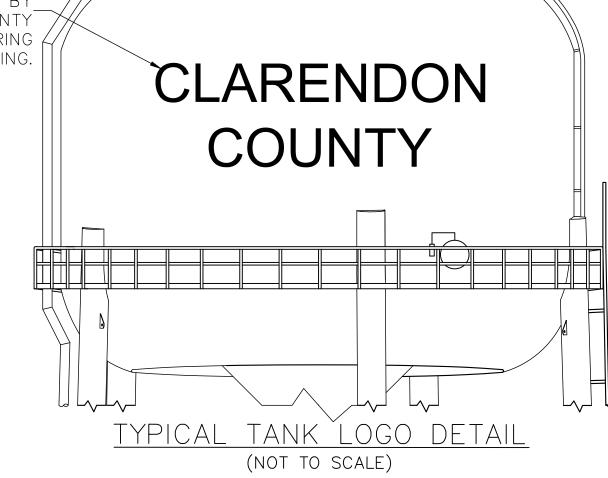
24" Ø OUTER STEEL CASING SHALL BE PER API-5L, GRADE B (CONTRACT INCLUDES 94 LF) FILL 3" ANNULAR SPACE WITH CEMENT GROUT MEETING SCDHEC -R61-58.B(7) (CONTRACT INCLUDES 80 LF PER EXISTING GEOTECHNICAL

TOP OF SANITARY SEAL – ELEV: 137.83'MSL 4" MIN. THICKNESS AND MIN. 3,000 PSI CONCRETE PER SCDHEC R61-58 PROPOSED FINISHED GRADE 137.5'_ MSL EXISTING GRADE 137' MSL-----



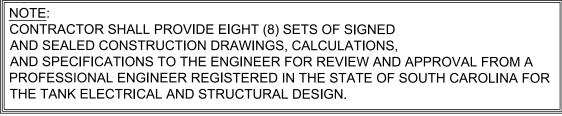


LOGO GRAPHICS AND WORDING SHALL BE APPROVED BY CLARENDON COUNTY PRIOR TO ORDERING AND INSTALLING.



- .3. TYPF
- **REVIEW PROCESS.** 5.
- 8. VENTS SHALL BE CONSTRUCTED TO:
- [R.61-58.4.C.(2)(H)(L)]

- WATER. [R.61-58.4.C.(2)(M)]
- 61-58.4.C.(2)(P)]



GENERAL TANK SPECIFICATIONS

NOTE: FOR COMPLETE TANK SPECIFICATIONS SEE PROJECT TECHNICAL SPECIFICATIONS. IN THE EVENT OF CONTRADICTIONS OR CONFLICTS THE PROJECT TECHNICAL SPECIFICATIONS SHALL GOVERN.

1. TOP OF TANK: FROM WALKWAY TO TOP OF TANK SHALL BE WHITE IN COLOR. 2. BOTTOM OF TANK AND LEGS: FROM WALKWAY TOWARDS THE GROUND/FOUNDATION SHALL BE BLUE IN COLOR.

TANK LETTERING: LETTERING SHALL BE BLACK AND IN TIMES NEW ROMAN FONT 4. COLORS AND GRAPHICS SHALL BE CONFIRMED BY OWNER DURING SHOP DRAWING

ADEQUATE CONTROLS SHALL BE PROVIDED TO AUTOMATICALLY MAINTAIN LEVELS IN DISTRIBUTION SYSTEM STORAGE STRUCTURES IN CONJUNCTION WITH NEW GROUNDWATER WELL. [R. 61-58.4. C.(1)(C)]

MATERIALS AND DESIGNS USED FOR FINISHED WATER STORAGE STRUCTURES SHALL PROVIDE STABILITY AND PROTECTION OF THE STORED WATER. STEEL STRUCTURES SHALL BE DESIGNED IN ACCORDANCE WITH CURRENT AWWA STANDARD D-100 CONCERNING STEEL TANKS, STANDPIPES, RESERVOIRS, AND ELEVATED TANKS WHENEVER THEY ARE APPLICABLE. [R.61-58.4.C.(2)(A)] 7. NO. TWENTY-FOUR (24) MESH NON-CORRODIBLE SCREENS, OR EQUIVALENT, SHALL BE USED ON ALL VENTS. [R.61-58.4.C.(2)(H)]

a. PREVENT THE ENTRANCE OF SURFACE WATER AND RAINWATER;

b. EXCLUDE BIRDS AND ANIMALS; [R.61-58.4, C.(2)(H)(II)]

c. EXCLUDE INSECTS AND DUST, AS MUCH AS THIS FUNCTION CAN BE MADE COMPATIBLE WITH EFFECTIVE VENTING; AND [R. 61-58.4.C.(2)(H)(III)] d. PREVENT IMPLODING OF THE TANK DURING A RAPID DISCHARGE OF WATER FROM THE TANK. [R.61-58.4.C.(2)(H)(IV)]

6. THE ROOF AND SIDEWALLS OF THE TANK MUST BE WATERTIGHT WITH NO OPENINGS EXCEPT PROPERLY CONSTRUCTED VENTS, MANHOLES, OVERFLOWS, RISERS, DRAINS OR CONTROL PORTS. [R,61-58.4.C.(2)(1)]

7. ANY PIPES RUNNING THROUGH THE ROOF OR SIDEWALL OF THE TANK MUST BE WELDED, OR PROPERLY GASKETED. [R.61-58.4.C.(2)(I)(I)]

8. CATWALKS OVER THE FINISHED WATER SHALL HAVE A SOLID FLOOR WITH RAISED EDGES SO DESIGNED THAT SHOE SCRAPINGS AND DIRT WILL NOT FALL INTO THE

9. PROPER PROTECTION SHALL BE GIVEN TO METAL SURFACES BY PAINTS OR OTHER PROTECTIVE COATINGS, BY CATHODIC PROTECTIVE DEVICES, OR BY BOTH. [R.

10. All PAINT COATINGS WHICH COME INTO CONTACT WITH DRINKING WATER SHALL BE CERTIFIED AS MEETING THE SPECIFICATIONS OF THE ANSI/NSF STANDARD 61, DRINKING WATER SYSTEM COMPONENTS - HEALTH EFFECTS. THE CERTIFYING

PARTY SHALL BE ACCREDITED BY THE AMERICAN NATIONAL STANDARDS INSTITUTE. HOT APPLIED WAX, COLD APPLIED WAX, GREASE, AND COAL TAR COATINGS ARE NOT ACCEPTABLE. [R.61-58.4.C.(2)(P)]

	Date i	RE REVISION I	EVISIC DATE			
ALS >>	EER	VER	CIAN	D BY H	VED	Ŧ
APPROVALS	ENGINEER	DESIGNER MJC	TECHNICIAN MJC	CHECKED BY ARH	APPROVEI	ARH
	CARD THE CARD THE	Alliance Consulting	No. C02854	TIME OF AUTOM		DATE:
	THE CARDIN	100/19/24 2	a No. 23412 m	HILL OCH ALL		SIGNATURE:
				CONSULTING ENGINEERS	Alliance Consulting Engineers, Inc. 124 Verdae Blvd - Bonaventure II. Suite SIS - Greenville SC 29607	Phone (864) 284-1740 • Fax (864) 284-1741
			TANK DETAILS			SCALE: AS SHOWN
SHEET			TAN			SOUTH CAROLINA DATE: JANUARY 2024
		GROUNDWATER	(PHASE V)	N COUNTY AROLINA		
PROJECT	NEW 250 000 GALLON ELEVATED	STORAGE TANK, GROUNDWATER	WELL, ANU IREATMENT STSTEM (PHASE V)	CLARENDON COUNTY SOUTH CAROLINA		CLARENDON COUNTY
F 23 R AC	192 PLAI EFEREI E SUR ROJE	NAMI N SET.DV NCE FIL VEY.DV CT NC 2-0014	vg E: VG	SHE <u>C-</u> O	<u>8.C</u> F	

TEMPORARY GRASSING SCHEDULE: (TG)

E PURPOSE OF TEMPORARY SEEDING IS TO REDUCE EROSION AND SEDIMENTATION BY STABILIZING DISTURBED AREAS THAT WOULD OTHERWISE LAY BARE FOR LONG PERIODS OF TIME BEFORE THEY ARE WORKED OR STABILIZED. TEMPORARY SEEDING IS ALSO USED WHERE PERMANENT VEGETATION GROWTH IS NOT NECESSARY OR APPROPRIATE.

WHEN AND WHERE TO USE IT: TEMPORARY SEEDING IS USED ON EXPOSED SOIL SURFACES SUCH AS DENUDED AREAS, SOIL STOCKPILES, DIKES, DAMS, BANKS OF SEDIMENT BASINS, BANKS OF SEDIMENT TRAPS, AND TEMPORARY ROAD BANKS. TEMPORARY SEEDING PREVENTS AND LIMITS COSTLY MAINTENANCE OPERATIONS ON OTHER SEDIMENT CONTROL STRUCTURES. SEDIMENT CLEANOUT REQUIREMENTS FOR SEDIMENT BASINS, SEDIMENT, TRAPS, AND SILT FENCE IS REDUCED IF THE DRAINAGE AREA IS SEEDED WHEN GRADING AND CONSTRUCTION OPERATION ARE NOT TAKING PLACE. TEMPORARY STABILIZATION IS REQUIRED WITHIN 14 DAYS AFTER CONSTRUCTION ACTIVITY IS COMPLETE UNLESS CONSTRUCTION ACTIVITY IS GOING TO RESUME WITHIN 21 DAYS. COVER SEEDED AREAS WITH AN APPROPRIATE MULCH TO PROVIDE PROTECTION FROM THE WEATHER. WHEN THE TEMPORARY VEGETATION DOES NOT GROW QUICKLY OR THICK ENOUGH TO PREVENT EROSION, RE-SEED AS SOON AS POSSIBLE. KEEP SEEDED AREAS ADEQUATELY MOIST. IRRIGATE THE SEEDED AREA IF NORMAL RAINFALL IS NOT ADEQUATE FOR THE GERMINATION AND GROWTH OF SEEDLINGS. WATER SEEDED AREAS AT CONTROLLED RATES THAT ARE LESS THAN THE RATE AT WHICH THE SOIL CAN ABSORD WATER TO PREVENT RUNOFF. RUNOFF OF IRRIGATION WATER WASTES WATER AND CAN CAUSE EROSION.

SEED SELECTION (SEE SCDOT SEEDING SPECIFICATION TABLE 2: ANNUALS FOR TEMPORARY SEED SELECTION AND RATES

SEED SELECTION IS BASED ON GEOGRAPHICAL LOCATION, SOIL TYPE AND THE SEASON OF THE YEAR IN WHICH THE PLANTING IS TO BE DONE. USE THE TABLES IN APPENDIX C AS A GUIDE FOR CONVENTIONAL TILLAGE METHODS (PLOWING, SEED BED PREPARATION, HYDROSEEDING, ETC). IF A FAST GROWING CROP TO NURSE THE PERMANENT SPECIE OR SPECIES IS REQUIRED, THEN USE THE MIX RATE. FAILURE TO CAREFULLY FOLLOW AGRONOMIC RECOMMENDATIONS RESULTS IN AN INADEQUATE STAND OF TEMPORARY VEGETATION THAT PROVIDES LITTLE OR NO EROSION CONTROL.

IF THE AREA HAS BEEN RECENTLY PLOWED, NO TILLAGE IS REQUIRED OTHER THAN RAKING OR SURFACE ROUGHENING TO BREAK ANY CRUST THAT HAS FORMED LEAVING A TEXTURED SURFACE. DISK THE SOIL FOR OPTIMAL GERMINATION WHEN THE SOIL IS COMPACTED LESS THAN 6 INCHES.

FERTILIZEF

APPLY A MINIMUM OF 500 POUNDS PER ACRE OF 10-10-10 FERTILIZER (11.5 POUNDS PER 1000 SQUARE FEET) OR EQUIVALENT DURING TEMPORARY SEEDING UNLESS A SOIL TEST INDICATES A DIFFERENT REQUIREMENT. INCORPORATE FERTILIZER AND LIME (IF USED) INTO THE TOP 4-6 INCHES OF THE SOIL BY DISKING OR OTHER MEANS WHERE CONDITIONS ALLOW.

LOOSEN THE SOIL SURFACE BEFORE BROADCASTING THE SEED. APPLY SEED EVENLY BY THE MOST CONVENIENT METHOD AVAILABLE FOR THE TYPE OF SEED USED AND THE LOCATION OF THE TEMPORARY SEEDING. TYPICAL APPLICATION METHODS INCLUDE BUT ARE NOT LIMITED TO CYCLONE SEEDERS, ROTARY SPREADERS, DROP SPREADERS, BROADCAST SPREADERS, HAND SPREADERS, CULTIPACKER SEEDER, AND HYDRO-SEEDERS. COVER APPLIED SEED BY RAKING OR DRAGGING A CHAIN, AND THEN LIGHTLY FIRM THE AREA WITH A ROLLER OR CULTIPACKER.

USE MULCH WITH TEMPORARY SEED APPLICATIONS TO RETAIN SOIL MOISTURE AND REDUCE EROSION DURING THE ESTABLISHMENT OF VEGETATION. TYPICAL MULCH APPLICATIONS INCLUDE STRAW. WOOD FIBER. HYDROMULCHES. BFM AND FGM. USE HYDROMULCHES WITH A MINIMUM BLEND OF 70% WOOD FIBERS

THE MOST COMMONLY ACCEPTED MULCH USED IN CONJUNCTION WITH TEMPORARY SEEDING IS SMALL GRAIN STRAW. THIS STRAW SHOULD BE DRY AND FREE FROM MOLD DAMAGE AND NOXIOUS WEEDS. THE STRAW MAY NEED TO BE ANCHORED WITH NETTING OR EMULSIONS TO PREVENT IT FROM BEING BLOWN OR WASHED AWAY. APPLY THE STRAW MULCH BY HAND OR MACHINE AT THE RATE 1.5-2 TONS PER ACRE (90 POUNDS PER 1000 SQUARE FEET). FREQUENT INSPECTIONS ARE NECESSARY TO CHECK THAT CONDITIONS FOR GROWTH ARE GOOD.

SEEDED AREAS SHOULD BE KEPT ADEQUATELY MOIST. IRRIGATE THE SEEDED AREA IF NORMAL RAINFALL IS NOT ADEQUATE FOR THE GERMINATION AND GROWTH OF SEEDLINGS, WATER SEEDED AREAS AT CONTROLLED RATES THAT ARE LESS THAN THE RATE AT WHICH THE SOIL CAN ABSORD WATER TO PREVENT RUNOFF. RUNOFF OF IRRIGATION WATER WASTES WATER AND CAN CAUSE EROSION.

E-SEED AREAS WHERE SEEDING DOES NOT GROW QUICKLY, THICK ENOUGH, OR ADEQUATELY TO PREVENT EROSION. BASE SEED SELECTION SHOULD ON THE REQUIREMENTS OF LOCAL SPECIFICATIONS.

- INSPECT EVERY 7 CALENDAR DAYS AND WITHIN 24-HOURS AFTER EACH RAINFALL EVENT THAT PRODUCES 1/2-INCHES OR MORE OF PRECIPITATION. COVER SEEDED WITH MULCH TO PROVIDE PROTECTION. FREQUENT INSPECTIONS ARE NECESSARY TO CHECK THAT CONDITIONS FOR GROWTH ARE GOOD • SUPPLY TEMPORARY SEEDING WITH ADEQUATE MOISTURE. SUPPLY WATER AS NEEDED, ESPECIALLY IN ABNORMALLY HOT OR DRY WEATHER OR ON
- ADVERSE SITES. CONTROL WATER APPLICATION RATES TO PREVENT RUNOFF. BASE SEED SELECTION ON LOCAL SPECIFICATIONS.
- RE-SEED AREAS WHERE THE PLANTS DO NOT GROW QUICK ENOUGH, THICK ENOUGH, OR ADEQUATELY ENOUGH TO PREVENT EROSION SHOULD BE RE-SEEDED

EROSION CONTROL NOTES:

EROSION CONTROL MEASURES ARE TO BE ACCOMPLISHED PRIOR TO ANY OTHER CONSTRUCTION ON SITE AND BE MAINTAINED UNTIL THE PERMANENT GROUND COVER IS ESTABLISHED.

- 2. ALL EROSION CONTROL DEVICES MUST MEET OR EXCEED THE STANDARDS AND SPECIFICATIONS OF CLARENDON COUNTY AND THE STATE OF SOUTH CAROLINA
- 3. ALL SEDIMENT AND EROSION CONTROL DEVICES SHALL BE INSPECTED DAILY, AND ANY DAMAGE OBSERVED SHALL BE REPAIRED IMMEDIATELY.
- 4. ALL UNSURFACED AREAS, WHICH ARE DISTURBED, TO RECEIVE 4 INCHES OF TOPSOIL, SEED, AND MULCH UNTIL A HEALTHY STAND OF GRASS IS OBTAINED TEMPORARY STABILIZATION MULCH REQUIREMENTS: 5.1. MULCH SHALL BE UNCHOPPED, UNROTTED, SMALL GRAIN STRAW APPLIED AT A RATE OF 70 TO 90 LBS. PER 1,000 SQUARE FEET. MULCH MATERIALS SHALL BE RELATIVELY FREE OF ALL KINDS OF WEEDS AND SHALL BE FREE OF NOXIOUS WEEDS. SPREAD MULCH MECHANICALLY OR UNIFORMLY BY HAND; MULCH ANCHORING SHALL BE ACCOMPLISHED IMMEDIATELY AFTER MULCH PLACEMENT TO MINIMIZE LOSS BY WIND OR WATER. THIS MAY BE
- DONE BY PEG AND TWINE METHOD, MULCH ANCHORING TOOL, NETTING OR LIQUID MULCH BINDERS. 6. SILT FENCE MUST MEET THE REQUIREMENTS FOR TEMPORARY SILT FENCE OF THE SC DEPARTMENT OF TRANSPORTATION, USE ONLY FABRIC THAT APPEARS ON SCDOT APPROVAL SHEET 34. ADDITIONAL EROSION CONTROL MEASURES WILL BE EMPLOYED WHERE DETERMINED NECESSARY BY ACTUAL SITE CONDITIONS.
- PRIOR TO ANY OTHER CONSTRUCTION, A STABILIZED CONSTRUCTION ENTRANCE SHALL BE CONSTRUCTED AT EACH POINT OF ENTRY TO OR EXIT FROM THE SITE, UNLESS ENTRANCE IS BARRICADED FROM USE.
- 9. THE CONSTRUCTION EXITS SHALL BE MAINTAINED IN A CONDITION TO PREVENT TRACKING OR FLOW OF MUD ONTO PUBLIC RIGHT-OF-WAY AND ADJACENT PROPERTY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH STONE, AS CONDITIONS DEMANDS, AND REPAIR AND/OR CLEAN-OUT OF ANY STRUCTURES USED TO TRAP SEDIMENT, ALL MATERIALS SPILLED, DROPPED, WASHED, OR TRACKED FROM VEHICLE OFF SITE ONTO PUBLIC ROADWAY OR INTO STORM DRAIN MUST BE REMOVED IMMEDIATELY
- 10. 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 SHALL OCCUR INSIDE THE APPROVED LIMITS INDICATED ON THE APPROVED PLANS.
- 11. IMMEDIATELY AFTER THE ESTABLISHMENT OF CONSTRUCTION ENTRANCES/EXITS, ALL PERIMETER EROSION CONTROL DEVICES AND STORMWATER MANAGEMENT DEVICES SHALL BE INSTALLED PRIOR TO ANY OTHER CONSTRUCTION. 12. OWNER/DEVELOPER AGREES TO PROVIDE AND MAINTAIN OFF-STREET PARKING ON THE SUBJECT PROPERTY DURING THE ENTIRE CONSTRUCTION PERIOD.
- 13. THE CONTRACTOR SHALL FURNISH AND MAINTAIN ALL NECESSARY BARRICADES WHILE ROADWAY FRONTAGE IMPROVEMENTS ARE BEING MADE. 14. THE CONSTRUCTION OF THE SITE WILL INITIATE WITH THE INSTALLATION OF EROSION CONTROL MEASURES SUFFICIENT TO CONTROL SEDIMENT DEPOSITS AND EROSION. ALL SEDIMENT CONTROL WILL BE MAINTAINED UNTIL ALL UPSTREAM GROUND WITHIN THE CONSTRUCTION AREA HAS BEEN COMPLETELY. STABILIZED WITH PERMANENT VEGETATION AND ALL ROADS/DRIVEWAYS HAVE BEEN PAVED.
- 15. EROSION CONTROL DEVICES SHALL BE INSTALLED IMMEDIATELY AFTER GROUND DISTURBANCE OCCURS. THE LOCATION OF SOME OF THE EROSION CONTROL DEVICES MAY HAVE TO BE ALTERED FROM THAT SHOWN ON THE APPROVED PLANS IF DRAINAGE PATTERNS DURING CONSTRUCTION ARE DIFFERENT FROM THE FINAL PROPOSED DRAINAGE PATTERNS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ACCOMPLISH EROSION CONTROL FOR ALL DRAINAGE PATTERNS CREATED AT VARIOUS STAGES DURING CONSTRUCTION. ANY DIFFICULTY IN CONTROLLING EROSION DURING ANY PHASE OF CONSTRUCTION SHALL BE REPORTED TO THE ENGINEER IMMEDIATELY.
- 16. ALL SILT BARRIERS MUST BE PLACED AS ACCESS IS OBTAINED. NO GRADING SHALL BE DONE UNTIL SILT BARRIER INSTALLATION AND DETENTION FACILITIES ARE CONSTRUCTED 17. CONTRACTOR SHALL MAINTAIN ALL EROSION CONTROL MEASURES UNTIL PERMANENT VEGETATION HAS BEEN ESTABLISHED. CONTRACTOR SHALL CLEAN
- OUT ALL SEDIMENT TRAPS WHEN REQUIRED BY ENGINEER OR THE CLARENDON COUNTY INSPECTOR. CONTRACTOR SHALL INSPECT EROSION CONTROL MEASURES AT THE END OF EACH WORKING DAY TO ENSURE MEASURES ARE FUNCTIONING PROPERLY. 18. THE CONTRACTOR SHALL REMOVE ACCUMULATED SILT WHEN THE SILT IS WITHIN 12" OF THE TOP OF THE SILT FENCE UTILIZED FOR EROSION CONTROL.
- 19. FAILURE TO INSTALL, OPERATE OR MAINTAIN ALL EROSION CONTROL MEASURES WILL RESULT IN ALL CONSTRUCTION BEING STOPPED ON THE JOB SITE UNTIL SUCH MEASURES ARE CORRECTED BACK TO STATE OF SOUTH CAROLINA STANDARDS. 20. ALL CONSTRUCTION SHALL CONFORM TO CLARENDON COUNTY STANDARDS AND SPECIFICATIONS WHERE APPLICABLE.
- 21. ALL SEWER EASEMENTS DISTURBED MUST BE DRESSED AND GRASSED TO CONTROL EROSION.
- 22. ALL OPEN SWALES MUST BE GRASSED, AND RIP-RAP MUST BE PLACED AS REQUIRED TO CONTROL EROSION. MINIMUM APRON SIZE SHALL BE AS NOTED STONES SHALL BE PLACED AT ALL DOWNSTREAM HEADWALLS. HAND-PLACE IMMEDIATELY AFTER THE INSTALLATION OF PIPES AND DRAINAGE DITCHES. 23. SILT BARRIERS TO BE PLACED AT DOWNSTREAM TOE OF ALL CUT AND FILL SLOPES.
- 24. TOTAL DISTURBED AREA = 1.1 ACRES (±) 25. ALL DITCHES & SWALES MUST BE DOUBLE SEEDED.
- 26. A CONSTRUCTION ENTRANCE SHALL BE PROVIDED AT ALL LOCATIONS WHERE CONSTRUCTION TRAFFIC ACCESSES A PAVED ROADWAY.

April 1 - S April 1 - S

September

TEMPORARY ME VEGETATIVE SPRAY-ON A TILLAGE

IRRIGATION BARRIERS G. CALCIUM CH

COMPACTED EN

PERMANENT GRASSING SPECIFICATIONS: (PG)

. ALL SEED MIXTURES FOR THE VARIOUS SEEDING SCHEDULES SHALL BE WEIGHED AND MIXED TO THE PROPER PROPORTIONS IN THE PRESENCE OF THE OWNER OR THE OWNER'S REPRESENTATIVE, 2. MAT ALL GRASSED SWALES , WATER WAYS, AND EMBANKMENTS FROM TOP OF BANK TO BOTTOM OF BANK ON ALL BANK SLOPES LESS THAN 3.1

	PERMANENT SEEDING	
	Maintained Turf (High Profile Lawn/Landscaped Areas)	
ng Dates	Variety	Application Rate
September 15	Bermuda Triangle Blend by Pennington Seed, Inc.	125 LBS/ACRE
	Slopes 4H:1V or Greater	
ng Dates	Variety	Application Rate
September 15	Slopemaster Spring/Summer Mix by Pennington Seeding, Inc.	75 LBS/ACRE
	Slopemaster Spring/Summer Mix Composition:	
	25% Hulled Sahara Bermudagrass	
	25% Unhulled Sahara Bermudagrass	
	25% Pensacola Bahiagrass	
	10% Durana White Clover	
	10% Brown Top Millet	
	5% Weeping Lovegrass	
15 - March 31	Slopemaster Fall/Winter Mix by Pennington Seed, Inc.	100 LBS/ACRE
	Slopemaster Fall/Winter Mix Composition:	
	25% Unhulled Sericea Lespedeza	
	20% Unhulled Sahara Bermudagrass	
	20% Greystone Tall Fescue	
	10% Durana White Clover	
	10% Rye Grain	
	5% Weeping Lovegrass	
	Slope 4H:1V or Less	
ng Dates	Variety	Application Rate
eptember 15	Hulled Sahara Bermudagrass	75 LBS/ACRE
15 - March 31	Unhulled Sahara Bermudagrass	100 LBS/ACRE
**Co	ontact - Pennington Seed, Inc 1236 Eden Street, Columbia, SC 29201	

DUST CONTROL: (DC)

DUST CONTROL ON DISTURBED AREAS DEFINITION ONTROLLING SURFACE AND AIR MOVEMENT OF DUST ON CONSTRUCTION SITES, ROADS, AND DEMOLITION SITES.

TO PREVENT SURFACE AND AIR MOVEMENT OF DUST FROM EXPOSED SOIL SURFACES. 2. TO REDUCE THE PRESENCE OF AIRBORN SUBSTANCES WHICH MAY BE HARMFUL OR INJURIOUS TO HUMAN HEALTH. WELFARE, OR SAFETY, OR TO ANIMALS OR PLAT LIFE.

HIS PRACTICE IS APPLICABLE TO AREAS SUBJECT TO SURFACE AND AIR MOVEMENT OF DUST WHERE ON- AND OFF-SITE DAMAGE MAY OCCUR WITHOUT TREATMENT.

EASURES: E COVER ADHESIVES	<u>PERI</u> A. B. C.	MANENT METHO PERMANENT V TOPSOILING STONE (CONS	VEGETATIO		ZATION)
HLORIDE	ſ	A			SIGN
	3:1	BF RM 3: 1 8'×8'MIN. 3: 1 BF RM A	3:1		
	Ļ		LAN	VIEW	GROUND SURFACE
12"MIN. —		BERM ARO	UND PEF	RIMETER 2'MIN.	12"MIN.
MBANKMENT TERIAL, TYP.		CC	OR AS I ONTAINW	×8'MIN. REQUIRED ATE CONC	
		\leq	sectio)N A	

<u>Sechun a</u>

- CONCRETE WASHOU AREA INSTALLATION NOTES
- 1. SEE PLAN VIEW FOR LOCATIONS OF CONCRETE WASHOUT AREA. 2. THE CONCRETE WASHOUT AREA SHALL BE INSTALLED PRIOR TO
- ANY CONCRETE PLACEMENT ON SITE.
- 3. VEHICLE TRACKING CONTROL IS REQUIRED AT THE ACCESS POINT.
- 4. SIGNS SHALL BE PLACED AT THE CONSTRUCTION ENTRANCE, AT THE WASHOUT AREA, AND ELSEWHERE AS NECESSARY TO CLEARLY INDICATE THE LOCATION OF THE CONCRETE WASHOUT AREA TO OPERATORS OF CONCRETE TRUCKS AND PUMP RIGS.
- 5. EXCAVATED MATERIAL SHALL BE UTILIZED IN PERIMETER BERM CONSTRUCTION.

CONCRETE WASHOUT AREA MAINTENANCE NOTES

- 1. THE CONCRETE WASHOUT AREA SHALL BE REPAIRED AND ENLARGED OR CLEANED OUT AS NECESSARY TO MAINTAIN CAPACITY FOR WASTED CONCRETE.
- 2. AT THE END OF CONSTRUCTION, ALL CONCRETE SHALL BE REMOVED FROM THE SITE AND DISPOSED OF AT AN APPROVED WASTE SITE.
- 3. WHEN THE CONCRETE WASHOUT AREA IS REMOVED, COVER THE DISTURBED AREA WITH TOP SOIL, SEED, AND MULCH OR OTHERWISE STABILIZE IN A MANNER APPROVED BY THE LOCAL JURISDICTION.
- 4. INSPECT WEEKLY, DURING AND AFTER ANY STORM EVENT.

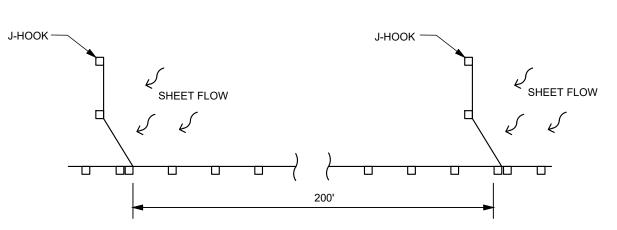


SCDES STANDARD CONSTRUCTION LAND DISTURBANCE NOTES PERMITS / LICENSES

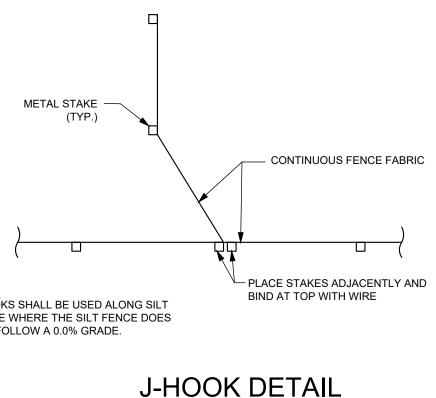
PRIOR TO THE COMMENCEMENT OF ANY WORK WITHIN THE PROJECT SITE, THE GENERAL CONTRACTOR AND ALL SUB-CONTRACTORS SHALL POSSESS ALL APPLICABLE PERMITS AND THE OWNER AND ENGINEER WILL BE GIVEN AT LEAST TWENTY-FOUR (24) HOURS NOTICE BEFORE BEGINNING WORK.

PROCEDURES / RESPONSIBILITIES

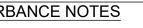
- 1. ALL WETLANDS SIGNAGE TO BE INSTALLED PER THE APPROVED CONSTRUCTION DRAWINGS PRIOR TO ANY LAND DISTURBING ACTIVITIES.
- 2. SLOPES, WHICH EXCEED EIGHT (8) VERTICAL FEET MUST BE STABILIZED WITH SYNTHETIC OR VEGETATIVE MATS. IN ADDITION TO HYDROSEEING. IT MAY BE NECESSARY TO INSTALL TEMPORARY SLOPE DRAINS DURING CONSTRUCTION. TEMPORARY BERMS MAY BE NEEDED UNTIL THE SLOPE IS BROUGHT TO GRADE
- STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS PRACTICABLE IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED. BUT IN NO CASE MORE THAN FOURTEEN (14) DAYS AFTER WORK HAS CEASED, EXCEPT AS STATED BELOW. WHERE STABILIZATION BY THE 14TH DAY IS PRECLUDED BY SNOW COVER OR FROZEN GROUND CONDITIONS STABILIZATION
- MEASURES MUST BE INITIATED AS SOON AS PRACTICABLE. • WHERE CONSTRUCTION ACTIVITY ON A PORTION OF THE SITE IS TEMPORARILY CEASED, AND EARTH-DISTURBING ACTIVITIES WILL BE RESUMED WITHIN 14 DAYS, TEMPORARY STABILIZATION MEASURES DO NOT HAVE TO BE INITIATED ON THE PORTION OF THE SITE AFTER CONSTRUCTION ACTIVITIES BEGIN. INSPECTIONS MUST BE CONDUCTED AT A MINIMUM OF AT LEAST ONCE EVERY CALENDAR WEEK, WITH NO TIME PERIOD BETWEEN INSPECTIONS EXCEEDING 9 DAYS, AND MUST BE CONDUCTED UNTIL FINAL
- STABILIZATION IS REACHED ON ALL AREAS OF THE CONSTRUCTION SITE. IT IS RECOMMENDED THAT BMPS BE ASSESSED BY THE CONTRACTOR WITHIN 24 HOURS OF THE END OF A STORM EVENT OF 1.0 INCH OR GREATER, AS WELL AS DURING THE FIRST RAIN EVENT AFTER THE INITIATION OF CONSTRUCTION ACTIVITIES, AFTER THE INSTALLATION OF BMPS. PROVIDE SILT FENCE AND/OR OTHER CONTROL DEVICES, AS MAY BE REQUIRED, TO CONTROL SOIL EROSION DURING UTILITY
- CONSTRUCTION. ALL DISTURBED AREAS SHALL BE CLEANED, GRADED, AND STABILIZED WITH GRASSING IMMEDIATELY AFTER THE UTILITY INSTALLATION. FILL, COVER, AND TEMPORARY SEEDING AT THE END OF EACH DAY ARE RECOMMENDED. IF WATER IS ENCOUNTERED WHILE TRENCHING, THE WATER SHOULD BE FILTERED TO REMOVE SEDIMENT BEFORE BEING PUMPED BACK INTO
- ANY WATERS OF THE STATE. 3. ALL EROSION CONTROL DEVICES SHALL BE PROPERLY MAINTAINED DURING ALL PHASES OF CONSTRUCTION UNTIL THE COMPLETION OF ALL CONSTRUCTION ACTIVITIES AND ALL DISTURBED AREAS HAVE BEEN STABILIZED. ADDITIONAL CONTROL DEVICES MAY BE REQUIRED DURING CONSTRUCTION IN ORDER TO CONTROL EROSION AND/OR OFFSITE SEDIMENTATION. ALL TEMPORARY CONTROL DEVICES SHALL BE REMOVED ONCE CONSTRUCTION IS COMPLETE AND THE SITE IS STABILIZED. THE CONTRACTOR MUST TAKE NECESSARY ACTION TO MINIMIZE THE TRACKING OF MUD ONTO PAVED ROADWAY(S) FROM CONSTRUCTION AREAS AND THE GENERATION OF DUST. THE CONTRACTOR SHALL REMOVE MUD/SOIL FROM PAVEMENT DAILY, OR
- AS MAY BE REQUIRED.
- 3. RESIDENTIAL SUBDIVISIONS REQUIRE EROSION CONTROL FEATURES FOR INFRASTRUCTURES AS WELL AS FOR INDIVIDUAL LOT AN INDIVIDUAL PLAN IN ACCORDANCE WITH S.C REG. 72-300 ET SEQ. AND SCR100000. TEMPORARY DIVERSION BERMS AND/OR DITCHES SHALL BE PROVIDED AS NEEDED DURING CONSTRUCTION TO PROTECT WORK AREAS FROM UPSLOPE RUNOFF AND/OR TO DIVERT SEDIMENT-LADEN WATER TO APPROPRIATE TRAPS OR STABLE OUTLETS. 10.ALL WATERS OF THE STATE (WOS), INCLUDING WETLANDS, ARE TO BE FLAGGED OR OTHERWISE CLEARLY MARKED IN THE FIELD. A DOUBLE ROW OF SILT FENCE IS TO BE INSTALLED IN ALL AREAS WHERE A 50-FOOT BUFFER CAN NOT BE MAINTAINED BETWEEN
- CONSTRUCTION. INDIVIDUAL PROPERTY OWNERS SHALL FOLLOW THESE PLANS DURING CONSTRUCTION OR OBTAIN APPROVAL OF THE DISTURBED AREAS AND ALL WOS. A 30-FOOT BUFFER SHOULD BE MAINTAINED BETWEEN THE LAST ROW OF SILT FENCE AND ALL WOS 11.LITTER, CONSTRUCTION DEBRIS, OILS, FUELS, AND BUILDING PRODUCTS WITH SIGNIFICANT POTENTIAL FOR IMPACT (SUCH AS STOCKPILES OF FRESHLY TREATED LUMBER) AND CONSTRUCTION CHEMICALS THAT COULD BE EXPOSED TO STORM WATER MUST
- BE PREVENTED FROM BECOMING A POLLUTANT SOURCE IN STORM WATER DISCHARGES. 12.A COPY OF THE OS-SWPPP, INSPECTION RECORDS, AND RAINFALL DATA MUST BE RETAINED AT THE CONSTRUCTION SITE OR A NEARBY LOCATION EASILY ACCESSIBLE DURING NORMAL BUSINESS HOURS, FROM THE DATE OF COMMENCEMENT OF
- CONSTRUCTION ACTIVITIES TO THE DATE THE FINAL STABILIZATION IS REACHED. 13.INITIATE STABILIZATION MEASURES ON ANY EXPOSED STEEP SLOPE (3H:1V OR GREATER) WHERE LAND-DISTURBING ACTIVITIES HAVE BEEN PERMANENTLY OR TEMPORARILY CEASED, AND WILL NOT RESUME FOR A PERIOD OF SEVEN CALENDAR DAYS.
- 14.MINIMIZE SOIL COMPACTION AND, UNLESS INFEASIBLE, PRESERVE TOPSOIL AND REPLACE WITHIN ALL GRASSED AND LANDSCAPED AREAS TO A MINIMUM DEPTH OF 6 INCHES. IF ADDITIONAL TOPSOIL IS REQUIRED TO MEET THE SPECIFICATIONS, THE CONTRACTOR MUST PROVIDE FROM AN OFF-SITE SOURCE. 15. MINIMIZE THE DISCHARGE OF POLLUTANTS FROM EQUIPMENT AND VEHICLE WASHING, WHEEL WASH WATER, AND OTHER WASH
- WATERS. WASH WATERS MUST BE TREATED IN A SEDIMENT BASIN OR ALTERNATIVE CONTROL TO PROVIDE EQUIVALENT OR BETTER TREATMENT PRIOR TO DISCHARGE. 16.MINIMIZE THE DISCHARGE OF POLLUTANTS FROM DEWATERING OF TRENCHES AND EXCAVATED AREAS. THESE DISCHARGES ARE TO BE ROUTED THROUGH APPROPRIATE BMPS (SEDIMENT BASIN, FILTER BAG, ETC.)
- 17. THE FOLLOWING DISCHARGES FROM SITES ARE PROHIBITED: WASTEWATER FROM WASHOUT OF CONCRETE, UNLESS MANAGED BY AN APPROPRIATE CONTROL; WASTEWATER FROM WASHOUT AND CLEANOUT OF STUCCO, PAINT, FORM RELEASE OILS, CURING COMPOUNDS AND OTHER CONSTRUCTION MATERIALS:
- FUELS, OILS, OR OTHER POLLUTANTS USED IN VEHICLE AND EQUIPMENT OPERATION AND MAINTENANCE; AND • SOAPS OR SOLVENTS USED IN VEHICLE AND EQUIPMENT WASHING. 18.AFTER CONSTRUCTION ACTIVITIES BEGIN, INSPECTIONS MUST BE CONDUCTED AT A MINIMUM OF AT LEAST ONCE EVERY
- CALENDAR WEEK AND MUST BE CONDUCTED UNTIL FINAL STABILIZATION IS REACHED ON ALL AREAS OF THE CONSTRUCTION SITE. 19. IF EXISTING BMPS NEED TO BE MODIFIED OR IF ADDITIONAL BMPS ARE NECESSARY TO COMPLY WITH THE REQUIREMENTS OF THIS PERMIT AND/OR SC'S WATER QUALITY STANDARDS, IMPLEMENTATION MUST BE COMPLETED BEFORE THE NEXT STORM EVENT WHENEVER PRACTICABLE. IF IMPLEMENTATION BEFORE THE NEXT STORM EVENT IS IMPRACTICABLE, THE SITUATION MUST BE DOCUMENTED IN THE SWPPP AND ALTERNATIVE BMPS MUST BE IMPLEMENTED AS SOON AS REASONABLY POSSIBLE. 20. A PRE-CONSTRUCTION CONFERENCE MUST BE HELD FOR EACH CONSTRUCTION SITE WITH AN APPROVED ON-SITE SWPPP PRIOR
- TO THE IMPLEMENTATION OF CONSTRUCTION ACTIVITIES. FOR NON-LINEAR PROJECTS THAT DISTURB 29.5 ACRES OR MORE THIS
- CONFERENCE MUST BE HELD ON-SITE UNLESS THE DEPARTMENT HAS APPROVED OTHERWISE 21 CONTRACTOR WILL PROVIDE AN AS-BUILT SURVEY(S) SIGNED AND SEALED BY A S.C. LICENSED LAND SURVEYOR OR PROFESSIONAL ENGINEER. TO BE SUBMITTED TO CLARENDON COUNTY FOR DETENTION STRUCTURE(S) ON THIS SITE. THE SURVEY(S) SHOULD SHOW GRADES, CONTOURS, AND DEPTHS FOR ALL STRUCTURE(S) AND SHOULD INCLUDE THE ELEVATIONS AND DIMENSIONS OF ALL OUTLET STRUCTURES, INCLUDING BUT NOT LIMITED TO PIPES, ORIFICES, RISERS, WEIRS, AND
- EMERGENCY SPILLWAYS. 22 THE CONTRACT DOCUMENTS ARE COMPLEMENTARY AND WHAT IS REQUIRED BY ONE SHALL BE AS BINDING AS IF REQUIRED BY ALL. IN THE CASE OF A CONFLICT, DISAGREEMENT, OR AMBIGUITY, PROVIDE THE BETTER QUALITY. IN THE CASE OF A CONFLICT, DISAGREEMENT, OR AMBIGUITY, PROVIDE THE GREATER QUANTITY OF WORK.



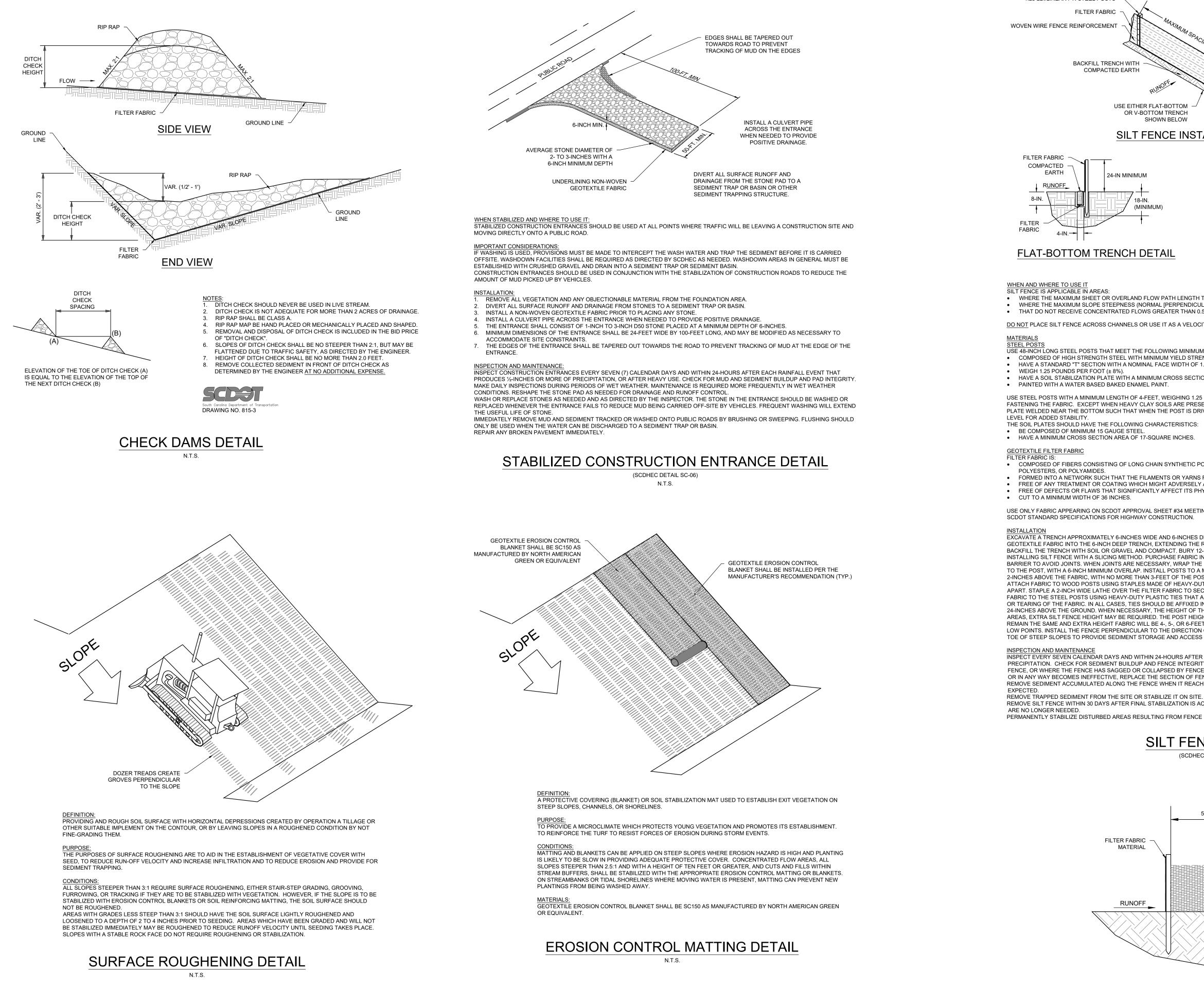
SILT FENCE J-HOOK PLACEMENT



J HOOKS SHALL BE USED ALONG SILT FENCE WHERE THE SILT FENCE DOES NOT FOLLOW A 0.0% GRADE.







BACKFILL TRENCH WITH

1.25 LB./LINEAR FT. STEEL POSTS

FILTER FABRIC -

COMPACTED

8-IN

FILTER

FABRIC

EARTH

R<u>UNOFF</u>

POLYESTERS, OR POLYAMIDES.

COMPACTED EARTH

RUNOFF

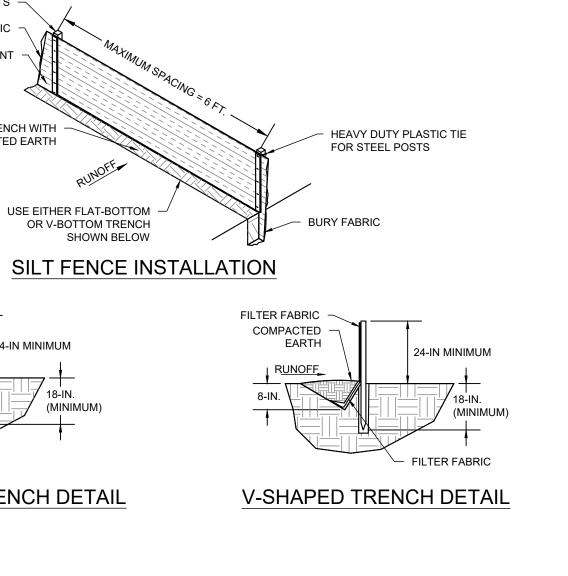
24-IN MINIMUM

(MINIMUM

WOVEN WIRE FENCE REINFORCEMENT

FILTER FABRIC MATERIAL RUNOFF

DOUBLE ROW SILT FENCE DETAIL



 WHERE THE MAXIMUM SHEET OR OVERLAND FLOW PATH LENGTH TO THE FENCE IS 100-FEET WHERE THE MAXIMUM SLOPE STEEPNESS (NORMAL [PERPENDICULAR] TO FENCE LINE) IS 2H:1V • THAT DO NOT RECEIVE CONCENTRATED FLOWS GREATER THAN 0.5 CFS

DO NOT PLACE SILT FENCE ACROSS CHANNELS OR USE IT AS A VELOCITY CONTROL BMP.

USE 48-INCH LONG STEEL POSTS THAT MEET THE FOLLOWING MINIMUM PHYSICAL REQUIREMENTS: COMPOSED OF HIGH STRENGTH STEEL WITH MINIMUM YIELD STRENGTH OF 50,000 PSI.

• HAVE A STANDARD "T" SECTION WITH A NOMINAL FACE WIDTH OF 1.38-INCHES AND NOMINAL "T" LENGTH OF 1.48-INCHES.

HAVE A SOIL STABILIZATION PLATE WITH A MINIMUM CROSS SECTION AREA OF 17-SQUARE INCHES ATTACHED TO THE STEEL POSTS.

USE STEEL POSTS WITH A MINIMUM LENGTH OF 4-FEET, WEIGHING 1.25 POUNDS PER LINEAR FOOT (± 8%) WITH PROJECTIONS TO AID IN FASTENING THE FABRIC. EXCEPT WHEN HEAVY CLAY SOILS ARE PRESENT ON SITE, STEEL POSTS WILL HAVE A METAL SOIL STABILIZATION PLATE WELDED NEAR THE BOTTOM SUCH THAT WHEN THE POST IS DRIVEN TO THE PROPER DEPTH, THE PLATE WILL BE BELOW GROUND

COMPOSED OF FIBERS CONSISTING OF LONG CHAIN SYNTHETIC POLYMERS COMPOSED OF AT LEAST 85% BY WEIGHT OF POLYOLEFINS,

• FORMED INTO A NETWORK SUCH THAT THE FILAMENTS OR YARNS RETAIN DIMENSIONAL STABILITY RELATIVE TO EACH OTHER. • FREE OF ANY TREATMENT OR COATING WHICH MIGHT ADVERSELY ALTER ITS PHYSICAL PROPERTIES AFTER INSTALLATION. • FREE OF DEFECTS OR FLAWS THAT SIGNIFICANTLY AFFECT ITS PHYSICAL AND/OR FILTERING PROPERTIES.

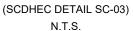
USE ONLY FABRIC APPEARING ON SCDOT APPROVAL SHEET #34 MEETING THE REQUIREMENTS OF THE MOST CURRENT EDITION OF THE

EXCAVATE A TRENCH APPROXIMATELY 6-INCHES WIDE AND 6-INCHES DEEP WHEN PLACING FABRIC BY HAND, PLACE 12-INCHES OF GEOTEXTILE FABRIC INTO THE 6-INCH DEEP TRENCH, EXTENDING THE REMAINING 6-INCHES TOWARDS THE UPSLOPE SIDE OF THE TRENCH. BACKFILL THE TRENCH WITH SOIL OR GRAVEL AND COMPACT. BURY 12-INCHES OF FABRIC INTO THE GROUND WHEN PNEUMATICALLY INSTALLING SILT FENCE WITH A SLICING METHOD. PURCHASE FABRIC IN CONTINUOUS ROLLS AND CUT TO THE LENGTH OF THE BARRIER TO AVOID JOINTS. WHEN JOINTS ARE NECESSARY, WRAP THE FABRIC TOGETHER AT A SUPPORT POST WITH BOTH ENDS FASTENED TO THE POST, WITH A 6-INCH MINIMUM OVERLAP. INSTALL POSTS TO A MINIMUM DEPTH OF 24-INCHES. INSTALL POSTS A MINIMUM OF 1- TO 2-INCHES ABOVE THE FABRIC, WITH NO MORE THAN 3-FEET OF THE POST ABOVE THE GROUND. SPACE POSTS TO MAXIMUM 6-FEET CENTERS. ATTACH FABRIC TO WOOD POSTS USING STAPLES MADE OF HEAVY-DUTY WIRE AT LEAST 11/2-INCH LONG, SPACED A MAXIMUM OF 6-INCHES APART. STAPLE A 2-INCH WIDE LATHE OVER THE FILTER FABRIC TO SECURELY FASTEN IT TO THE UPSLOPE SIDE OF WOODEN POSTS. ATTACH FABRIC TO THE STEEL POSTS USING HEAVY-DUTY PLASTIC TIES THAT ARE EVENLY SPACED AND PLACED IN A MANNER TO PREVENT SAGGING OR TEARING OF THE FABRIC. IN ALL CASES, TIES SHOULD BE AFFIXED IN NO LESS THAN 4 PLACES. INSTALL THE FABRIC A MINIMUM OF 24-INCHES ABOVE THE GROUND. WHEN NECESSARY, THE HEIGHT OF THE FENCE ABOVE GROUND MAY BE GREATER THAN 24-INCHES. IN TIDAL AREAS, EXTRA SILT FENCE HEIGHT MAY BE REQUIRED. THE POST HEIGHT WILL BE TWICE THE EXPOSED POST HEIGHT. POST SPACING WILL REMAIN THE SAME AND EXTRA HEIGHT FABRIC WILL BE 4-, 5-, OR 6-FEET TALL. LOCATE SILT FENCE CHECKS EVERY 100 FEET MAXIMUM AND AT LOW POINTS. INSTALL THE FENCE PERPENDICULAR TO THE DIRECTION OF FLOW AND PLACE THE FENCE AT THE PROPER DISTANCE FROM THE TOE OF STEEP SLOPES TO PROVIDE SEDIMENT STORAGE AND ACCESS FOR MAINTENANCE AND CLEANOUT.

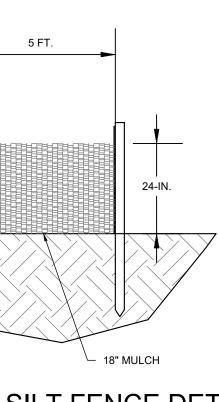
INSPECT EVERY SEVEN CALENDAR DAYS AND WITHIN 24-HOURS AFTER EACH RAINFALL EVENT THAT PRODUCES ½-INCHES OR MORE OF PRECIPITATION. CHECK FOR SEDIMENT BUILDUP AND FENCE INTEGRITY. CHECK WHERE RUNOFF HAS ERODED A CHANNEL BENEATH THE FENCE, OR WHERE THE FENCE HAS SAGGED OR COLLAPSED BY FENCE OVERTOPPING. IF THE FENCE FABRIC TEARS, BEGINS TO DECOMPOSE, OR IN ANY WAY BECOMES INEFFECTIVE. REPLACE THE SECTION OF FENCE IMMEDIATELY. REMOVE SEDIMENT ACCUMULATED ALONG THE FENCE WHEN IT REACHES 1/3 THE HEIGHT OF THE FENCE, ESPECIALLY IF HEAVY RAINS ARE

REMOVE SILT FENCE WITHIN 30 DAYS AFTER FINAL STABILIZATION IS ACHIEVED OR AFTER TEMPORARY BEST MANAGEMENT PRACTICES (BMPS) PERMANENTLY STABILIZE DISTURBED AREAS RESULTING FROM FENCE REMOVAL.

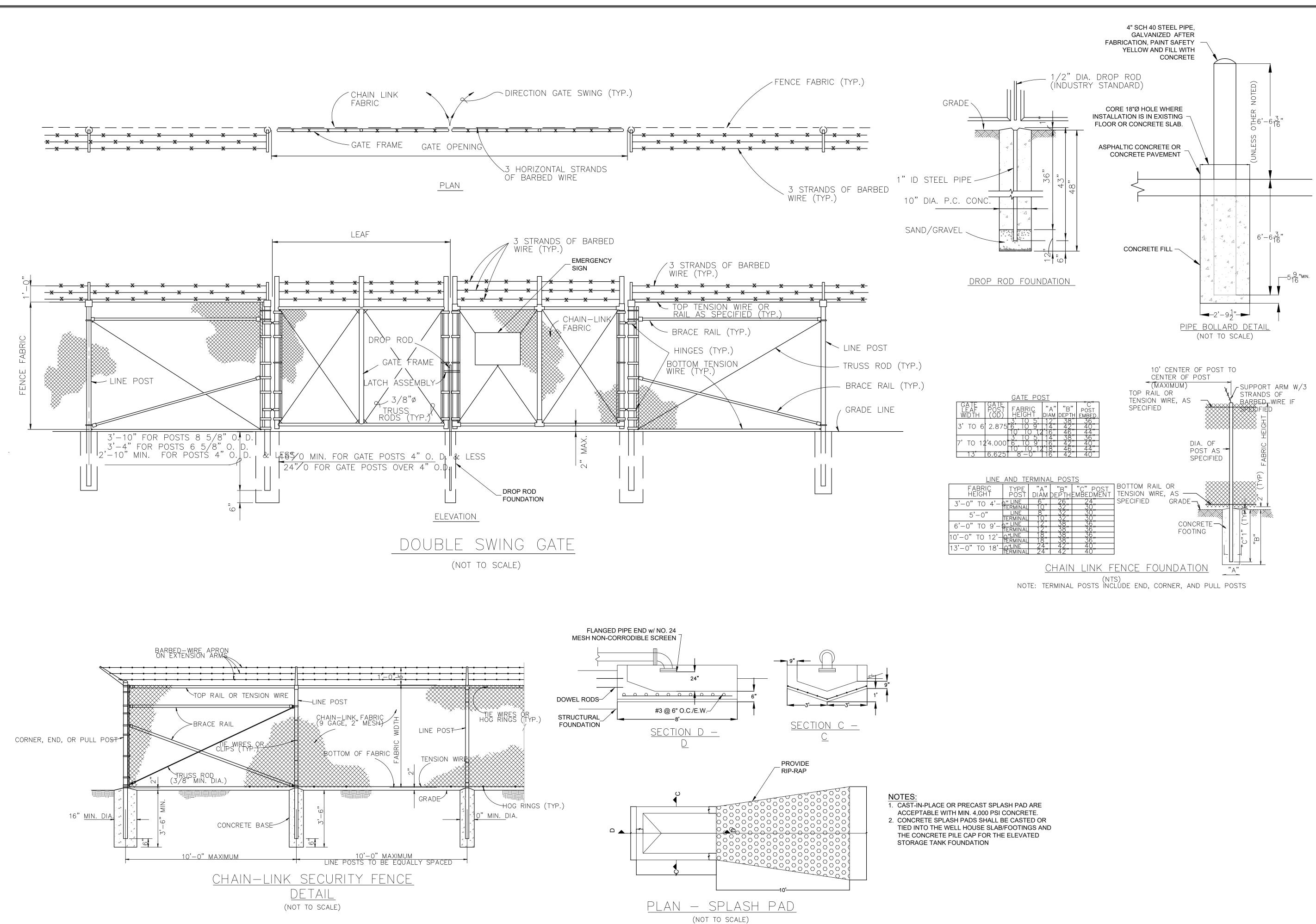
SILT FENCE DETAIL

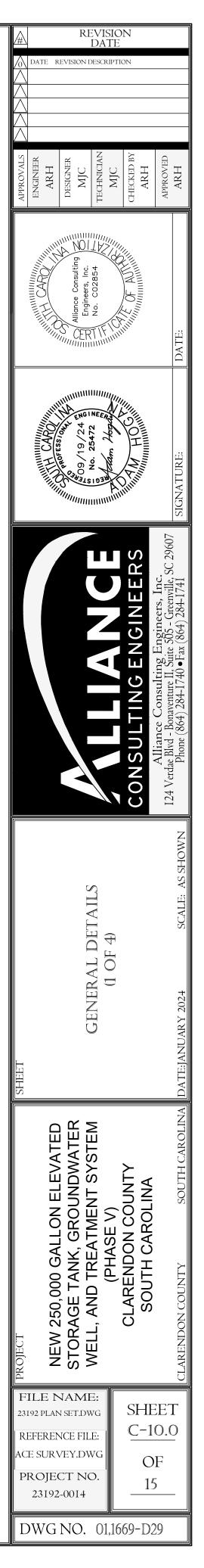


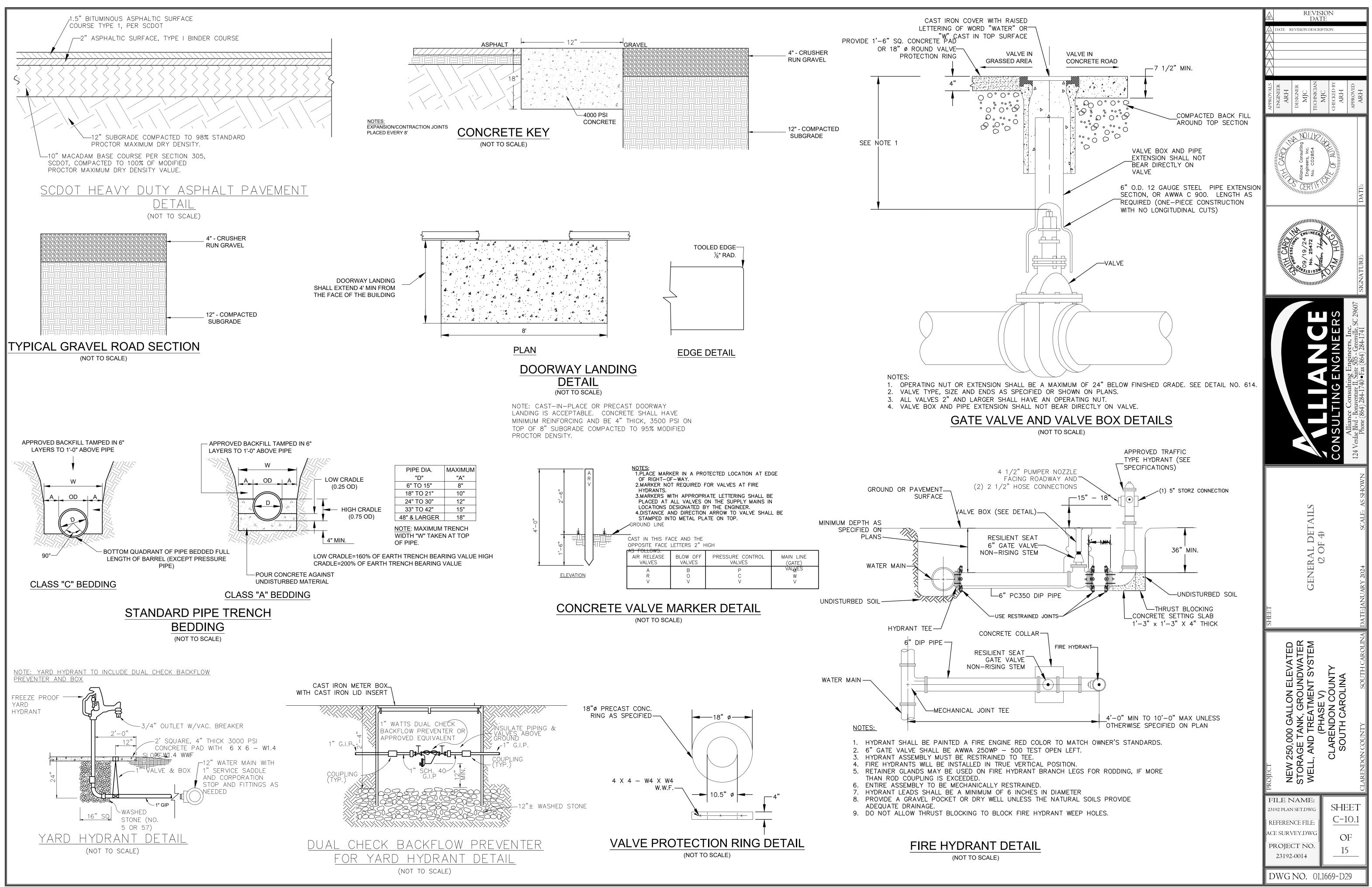
N.T.S.







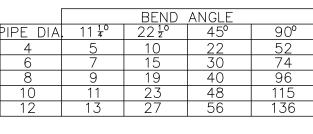




THIS DOCUMENT IS THE SOLE PROPERTY OF ALLIANCE CONSULTING ENGINEERS, INC. IT IS NOT TO BE REPRODUCED, COPIED OR OTHERWISE EDITED WITH OUT THE AUTHORIZATION OF ALLIANCE CONSULTING ENGINEERS, INC. THIS DRAWING IS INTENDED SPECIFICALLY FOR THE PROJECT REFERENCED HEREIN AND IS NOT TRANSFERABLE TO ANOTHER PROJECT.







NOTES

SHALL APPLY.



		BEND	ANGLE		
PIPE DIA	. 11 1 0	22 ¹ / ₂ °	45°	90°	. PII
4	5	10	22	52	
6	7	15	30	74	
8	9	19	40	96	
10	11	23	48	115	
12	13	27	56	136	

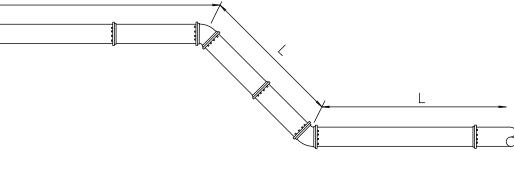
1. LENGTH OF RESTRAINT SHOWN IS IN FEET.

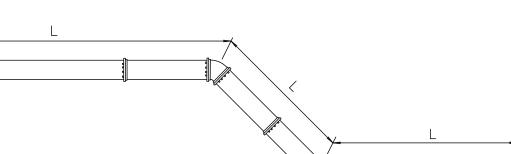
2. WHERE LINES CONSIST OF BOTH DUCTILE IRON AND PVC

WITHIN THE LIMITS OF REQUIRED RESTRAINT, LIMITS FOR PVC



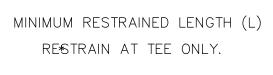




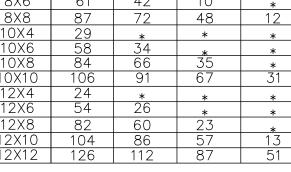


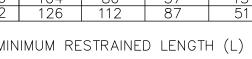


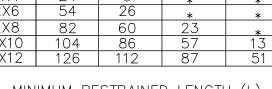
POLYVINYL CHLORIDE (P.V.C.) PIPE TEE FITTING

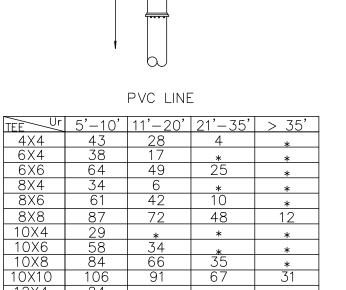


		ω		
		pvc line	-	
TEE	5'-10'	11'-20'	21'-35'	> 35'
4X4	<u>43</u> 38	28 17	4	*
6X4	38	17	*	*
6X6	64	49	* 25	*
8X4	34	6	* 10	*
8X6	61	42		*
8X8	87 29 58 84	72	48	12
10X4	29	*	*	*
10X6	58	* 34 66	*	*
10X8	84	66	* 35	*
10X10	106	91	67	31
12X4	24	*	*	*
12X6	54	26	*	*
12X8	82	60	23	*
12X10	104	86	57	13
12X12	126	112	87	51



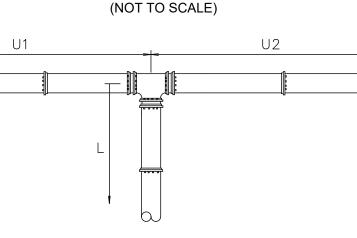


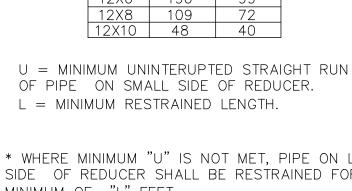




NOTES: 1. LENGTH OF RESTRAINT SHOWN IS IN FEET. 2. WHERE LINES CONSIST OF BOTH DUCTILE IRON AND PVC WITHIN THE LIMITS OF REQUIRED RESTRAINT, LIMITS FOR PVC SHALL APPLY. 3. U1 AND U2 = UNINTERUPTED STRAIGHT RUNS OF RESTRAINED JOINT PIPE IN EACH DIRECTION. 4. Ur = THE SMALLER OF U1 OR U2 (E.G., U1, IN THE ABOVE DIAGRAM) 5. L = MINIMUMRESTRAINED LENGTH ALONG THE BRANCH. 6. WHERE Ur IS LESS THAN 5', RESTRAIN TEE AS A 90°. HORIZONTAL

BEND.





WHERE MINIMUM "U" IS NOT MET, PIPE ON LARGE - SIDE OF REDUCER SHALL BE RESTRAINED FOR A MINIMUM OF "L" FEET.

PVC LINE

56

REDUCER U

6X4 |

8X4 SX6

NOTES:

24X16

1. LENGTH OF RESTRAINT SHOWN IS IN FEET.

84

97

DUCTILE IRON LINE

141

<u>54</u> 174

24X20 48 39

REDUCER

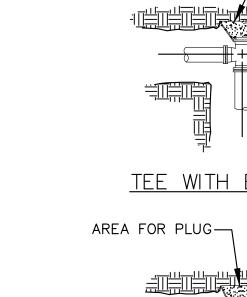
6X4

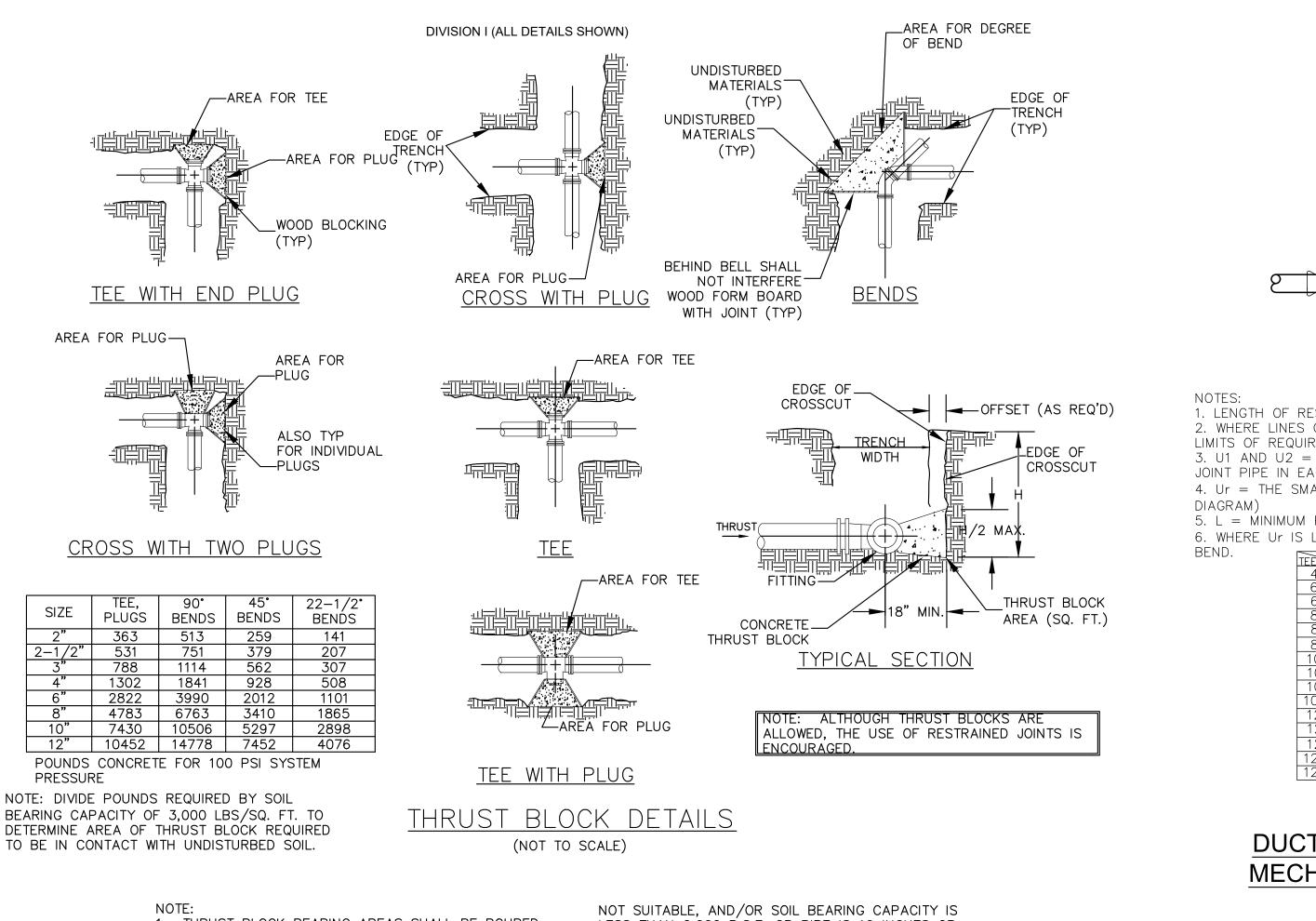
8X4

2. WHERE LINES CONSIST OF BOTH DUCTILE IRON AND PVC WITHIN THE LIMITS OF REQUIRED RESTRAINT, LIMITS FOR PVC SHALL APPLY.

REDUCER FITTING

MECHANICAL JOINT RESTRAINT DETAIL





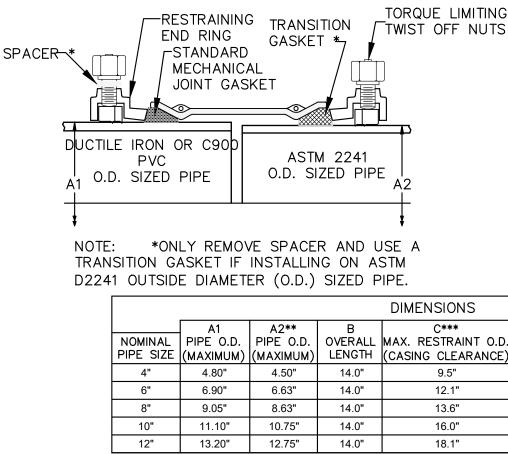
SIZE	TEE, PLUGS	90° BENDS	B
2"	363	513	
2-1/2"	531	751	
3"	788	1114	
<u> </u>	1302	1841	
6"	2822	3990	
8"	4783	6763	
10"	7430	10506	-,
12"	10452	14778	
POUNDS		E FOR 10	O F

PRESSURE

NOTE: DIVIDE POUNDS REQUIRED BY SOIL

NO [*] 1.	TE: THRUST AGAINST WALL HA MATERIA
2.	EXTEND

- THRUST BLOCK.
- ARRANGEMENT.



NOTE:

BLOCK BEARING AREAS SHALL BE POURED UNDISTURBED MATERIALS WHERE TRENCH AS BEEN DISTURBED, EXCAVATE ALL LOOSE AL AND EXTEND TO UNDISTURBED MATERIAL.

THRUST BLOCK FULL LENGTH OF FITTINGS. PUT BOARD IN FRONT OF PLUG BEFORE POURING CONCRETE. JOINTS SHALL NOT BE COVERED BY

3. ROUGH BLOCKING FORMS SHALL BE USED ALONG SIDES OF THRUST BLOCK.

4. THRUST BLOCKS SHALL BE USED IN COMBINATION, AS REQUIRED, TO SUIT THE SPECIFIC FITTINGS

5. ALTERNATE DESIGN RESTRAINING SYSTEM SHALL BE PROVIDED WHERE STANDARD THRUST BLOCKING IS

LESS THAN 2,000 P.S.F. OR PIPE IS 16 INCHES OR GREATER.

- 6. ALL WOOD BLOCKING SHALL BE PRESSURE TREATED WITH PRESERVATIVES.
- CONCRETE THRUST BLOCKING SHALL HAVE A MIN. COMPRESSION STRENGTH OF 2500 PSI.
- CONCRETE SHALL BE PLACED AGAINST UNDISTURBED MATERIAL AND SHALL NOT COVER JOINTS, BOLTS, OR NUTS OR INTERFERE WITH REMOVAL OF ANY JOINT. WOODEN SIDE FORMS SHALL BE PROVIDED FOR THRUST BLOCKS WHERE TRENCH CONDITIONS REQUIRE.
- THRUST BLOCKS SHALL BE PROPERLY SET AND ADEQUATELY CURED PRIOR TO PRESSURIZING THE PIPE.
- 10. FITTINGS SHALL BE PROTECTED BY POLYETHYLENE FILM, MIN. 8 MIL. THICK, PRIOR TO PLACING CONCRETE THRUST BLOCK.

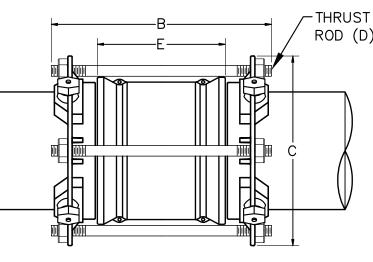
	DIMENSIONS								
	A1	A2**	В	C***	D	E			
	PIPE O.D.	PIPE O.D.	OVERALL	MAX. RESTRAINT O.D.	THRUST BOLT	BARREL	MAXIMUM		
-	(MAXIMUM)	(MAXIMUM)	LENGTH	(CASING CLEARANCE)	(NUMBER-SIZE)	LENGTH	DEFLECTION		
	4.80"	4.50"	14.0"	9.5"	4 - 3/4" X 14"	7.5"	5°		
	6.90"	6.63"	14.0"	12.1"	6 - 3/4" X 14"	7.5"	5°		
	9.05"	8.63"	14.0"	13.6"	6 - 3/4" X 14"	7.5"	5°		
	11.10"	10.75"	14.0"	16.0"	8 - 3/4" X 14"	7.5"	5°		
	13.20"	12.75"	14.0"	18.1"	8 - 3/4" X 14"	7.5"	5°		

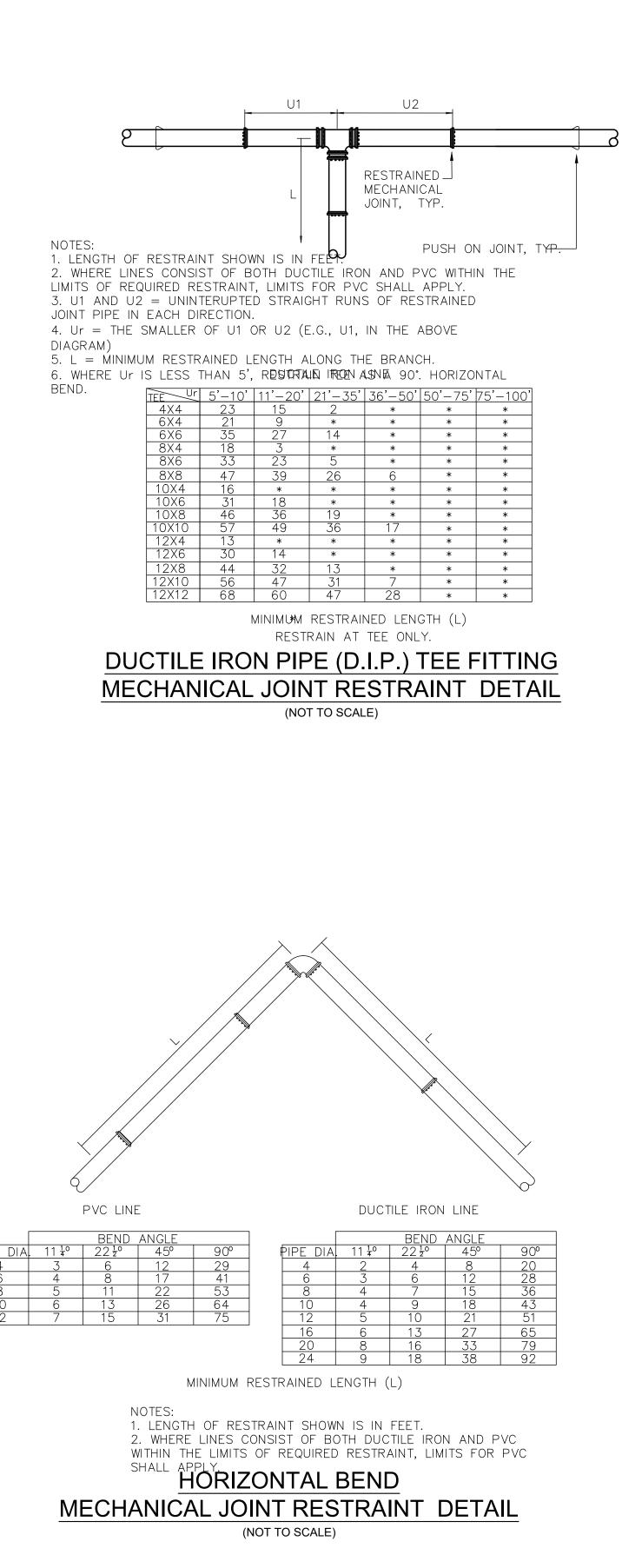
** REQUIRES THE USE OF A TRANSITION GASKET. *** AS INSTALLED WITH TWIST-OFF NUTS OFF.

DIMENSIONS ARE IN INCHES AND ARE SUBJECT TO CHANGE WITHOUT NOTICE.

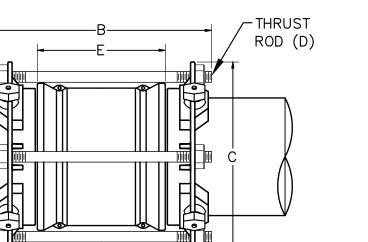
RESTRAINED COUPLING DETAIL

(NOT TO SCALE)

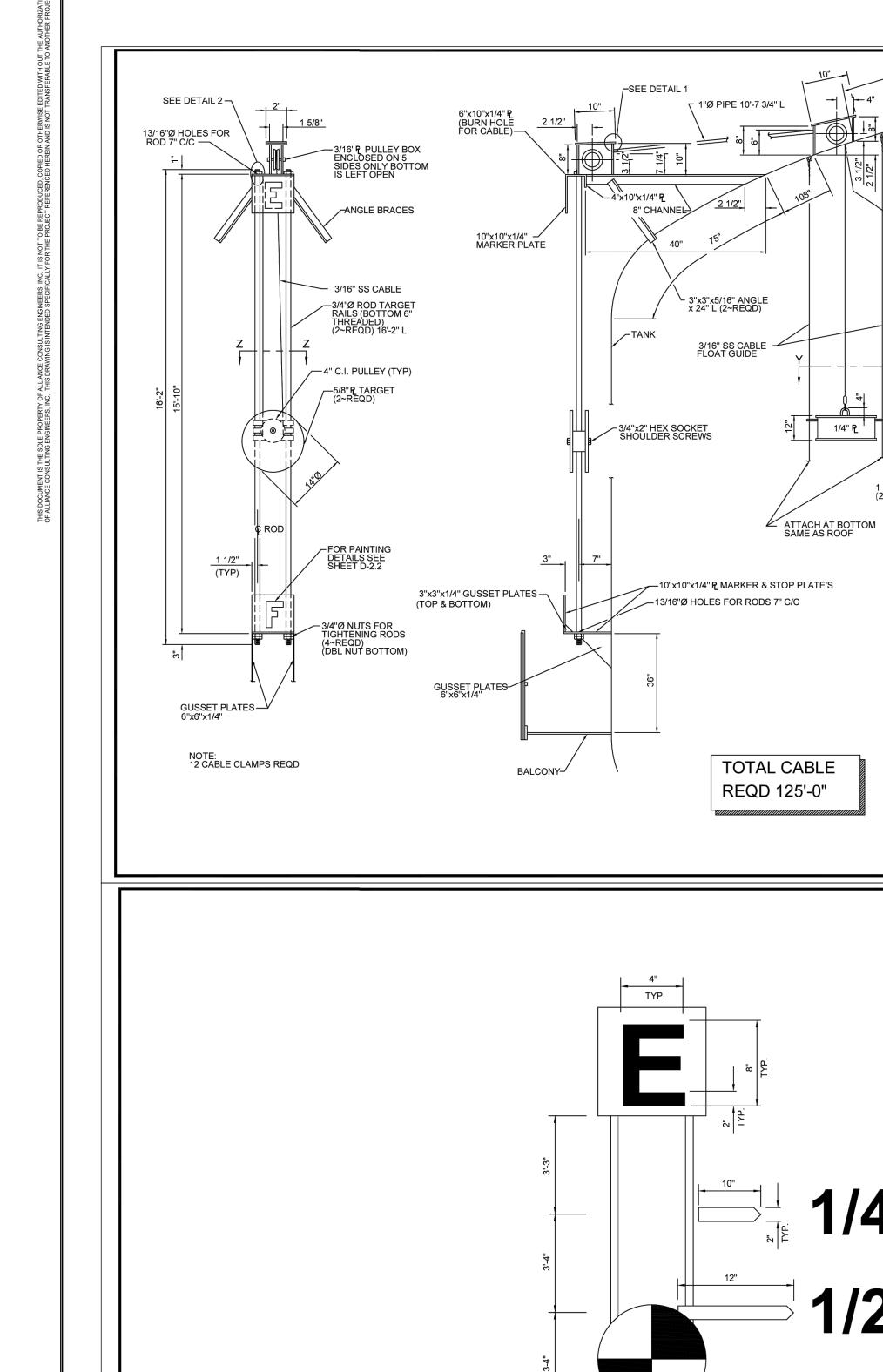




			BEND	ANGLE	
f	PIPE DIA	. 11 1 0	22 1 0	45°	
	4	3	6	12	
	6	4	8	17	
	8	5	11	22	
	10	6	13	26	
	12	7	15	31	







/2 1 3/4

1/4

106" ARC

-1"Ø BLANK NUTS WELD TO ROOF LOOP CABLE & CLAMP W/2 CLAMPS

- BURN HOLE IN ROOF, NO BURRS

TAN

3 1/2"

SPACERS ~

1 1/4"Ø WSP RAILS _____ (2~REQD)(STD WALL)

1/4" P_

- LETTERS NUMBERS & HASHMARKS TO BE BLACK ON WHITE - TARGET TO BE BLACK AND WHITE

