

**NOTE TO CONTRACTOR:**  
CONTRACTOR SHALL NOTIFY PUPS, METROPOLITAN  
WATER DISTRICT (864-503-0822) AND USC UPSTATE  
FACILITIES MANAGEMENT (864-503-5500) A MINIMUM  
THREE(3) DAYS PRIOR TO DIGGING.

**NOTE:**  
INFORMATION REGARDING THE REPUTED PRESENCE, SIZE, CHARACTER AND LOCATION OF EXISTING UNDERGROUND UTILITIES AND STRUCTURES WAS OBTAINED FROM LOCAL UTILITY COMPANIES AND AVAILABLE DRAWINGS SUPPLIED BY THE OWNER AND IS SHOWN HEREON. THERE IS NO CERTAINTY OF THE ACCURACY OF THIS INFORMATION AND IT SHALL BE CONSIDERED IN THAT LIGHT. THE ENGINEER HAS CONDUCTED A VISUAL SURVEY OF THE SITE AND HAS NO KNOWLEDGE OF ANY FACTS THAT WOULD LEAD US TO CONCLUDE THAT THE INFORMATION IS NOT ACCURATE, BUT UTILITIES AND STRUCTURES NOT SHOWN MAY BE ENCOUNTERED. THE OWNER, CONTRACTOR, AND CONSULTANTS, THEIR AGENTS AND HIS CONTRACTORS SHALL HEREBY DISTINCTLY UNDERSTAND THAT COX AND DINKINS, INC. IS NOT RESPONSIBLE FOR THE CORRECTNESS OR SUFFICIENCY OF THE UNDERGROUND INFORMATION. INFORMATION WITH REGARD TO THE SIZE AND CHARACTER OF THE UTILITIES AND STRUCTURES IS BASED UPON ACTUAL FIELD MEASUREMENTS AND OBSERVATIONS, AND IS SHOWN HEREON.



**PREPARED FOR:**

**UNIVERSITY OF SOUTH CAROLINA**

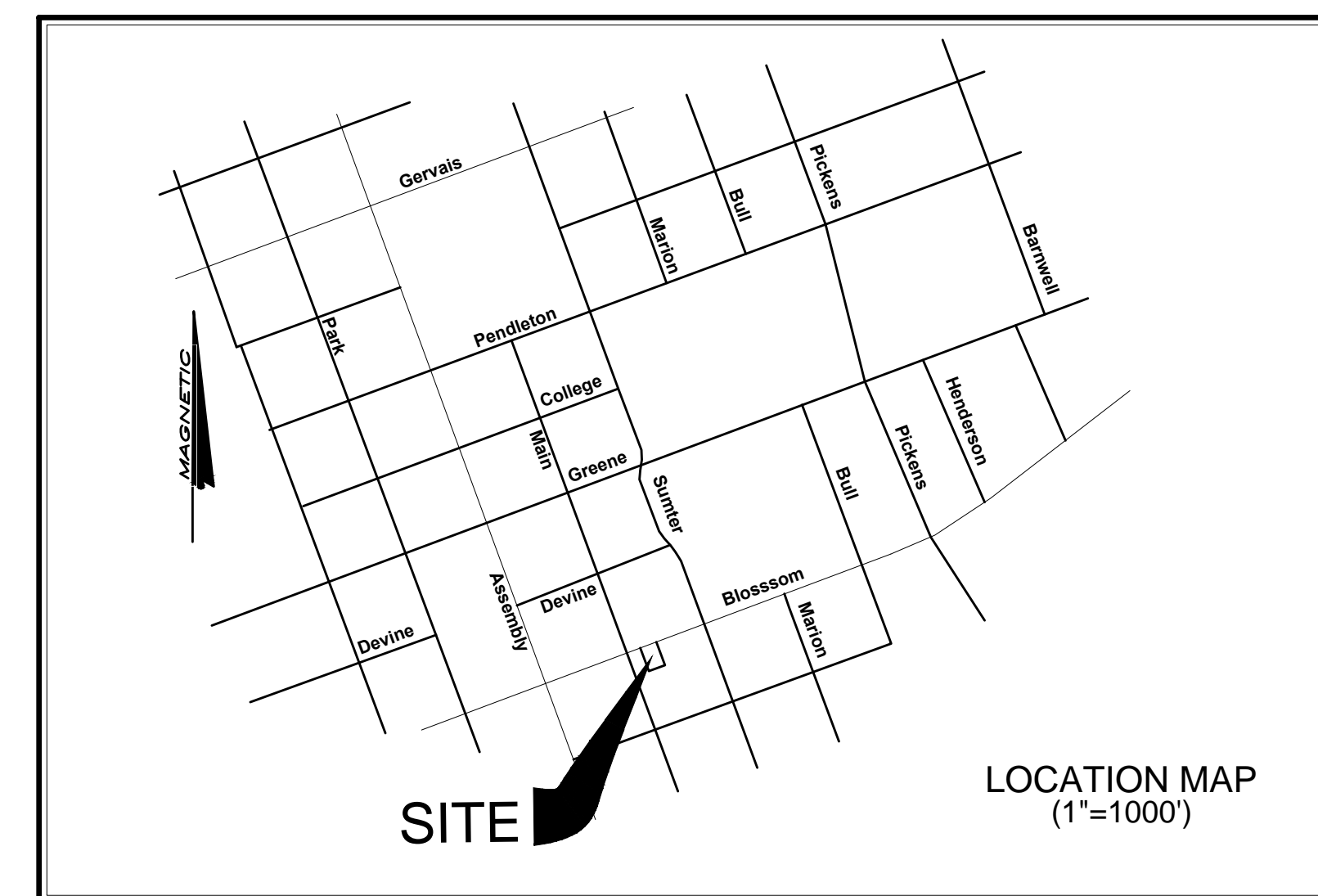
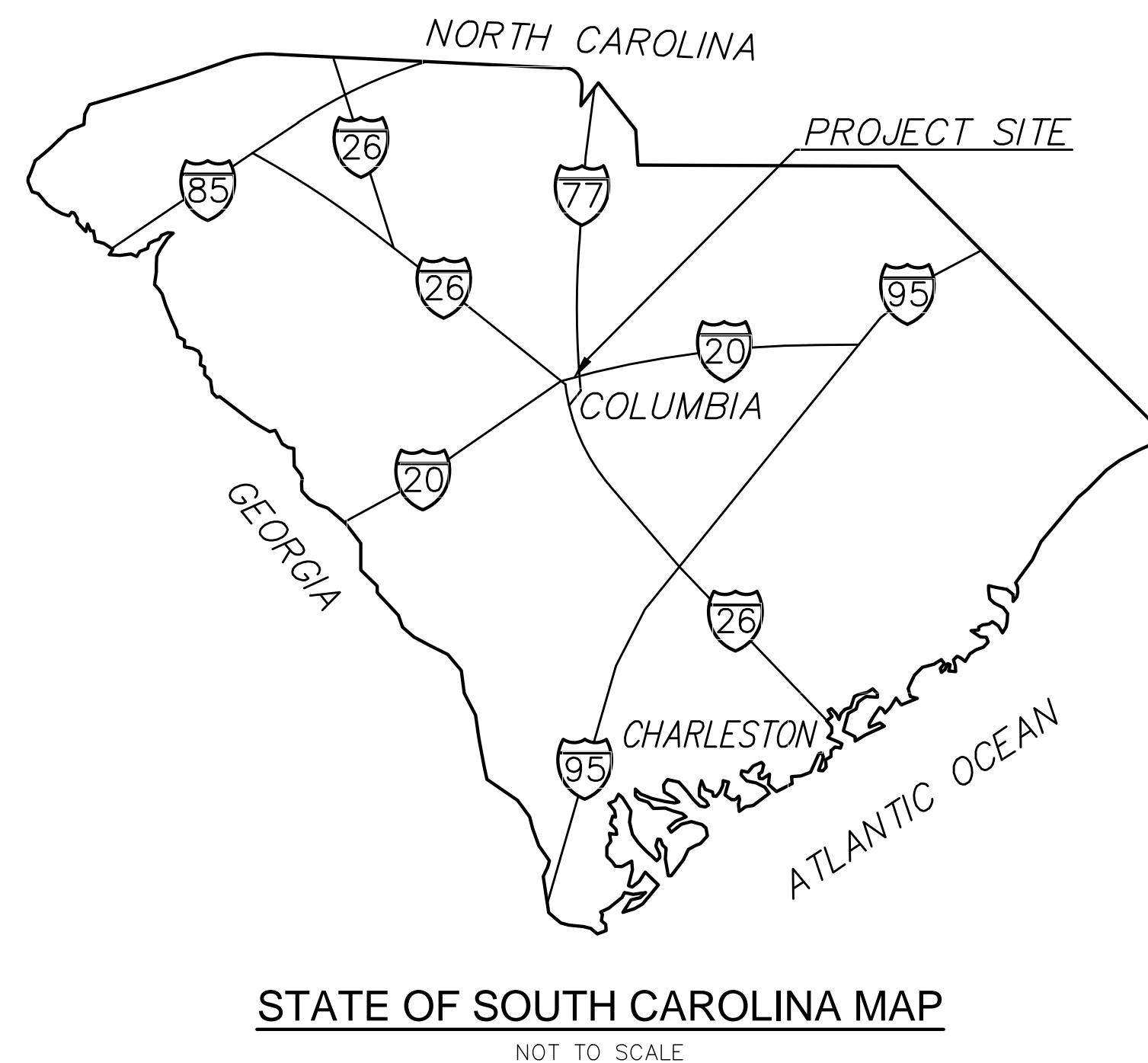
FACILITIES DESIGN AND CONSTRUCTION

743 GREENE STREET

COLUMBIA, SOUTH CAROLINA 29208

803.777.3126

<b>CIVIL ENGINEERING PLANS - COX AND DINKINS, INC.</b>	
<b>C0</b>	<b>COVER AND INDEX SHEET</b>
<b>C1</b>	<b>EXISTING CONDITIONS &amp; DEMOLITION PLAN</b>
<b>C2</b>	<b>SITE PLAN</b>
<b>C3</b>	<b>SEDIMENT &amp; EROSION CONTROL PLAN</b>
<b>C4</b>	<b>SITE, SEDIMENT &amp; EROSION DETAILS</b>
<b>MECHANICAL ENGINEERING PLANS - SWYGERT AND ASSOCIATES</b>	
<b>M1</b>	<b>SITE PLAN</b>
<b>M2</b>	<b>BASEMENT FLOOR PLAN</b>
<b>M3</b>	<b>DETAILS, NOTES SCHEDULE AND LEGEND</b>



CAMPUS PLANNING  
AND CONSTRUCTION  
COLUMBIA, SC 29208

[illegible]

PROJECT TITLE: **RE BID FUEL STORAGE TANK INSTALLATION**  
**WEST ENERGY PLANT**  
 RICHLAND COUNTY, CITY OF COLUMBIA, SC  
 COVER

SHEET:

CO

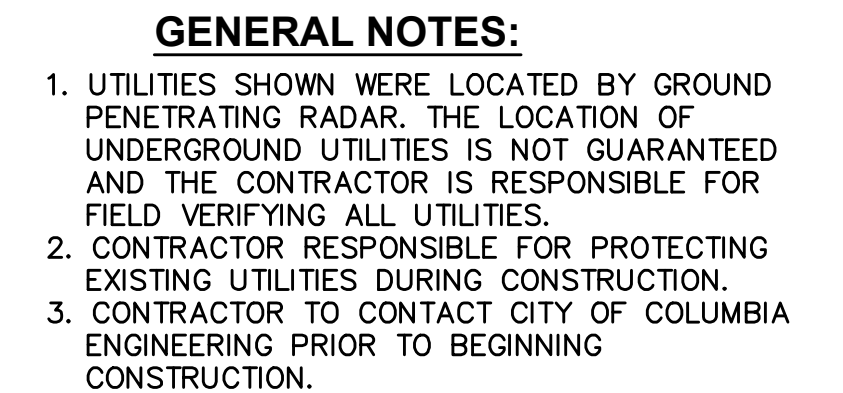


**The Palmetto Utility Protection Service, Inc.**  
810 Dash Square Blvd., Suite 320 Columbia, South Carolina 29201 (803) 999-1117

**South Carolina 811**  
Call 811 Before you Dig

3 DAYS BEFORE DIGGING IN SOUTH CAROLINA  
**CALL 811**

CONTRACTOR SHALL CONTACT THE UNDERGROUND LOCATIONS EVERY  
10 DAYS FOR AN UPDATE TO UTILITY LOCATORS.



**NOTES:**

- 1) THIS MAP IS NOT MEANT TO REPRESENT A LAND SURVEY IN ANY WAY AND CANNOT BE RECORDED NOR CAN IT BE USED FOR THE CONVEYANCE OF PROPERTY. A BOUNDARY SURVEY HAS NOT BEEN PERFORMED AT THIS TIME.
- 2) THE LOCATION OF OTHER UNDERGROUND UTILITIES AND THEIR SERVICES ARE UNKNOWN.
- 3) MAPPING DATA PROVIDED BY UNIVERSITY OF SOUTH CAROLINA

84B pg. 49&61

[illegible]

C1





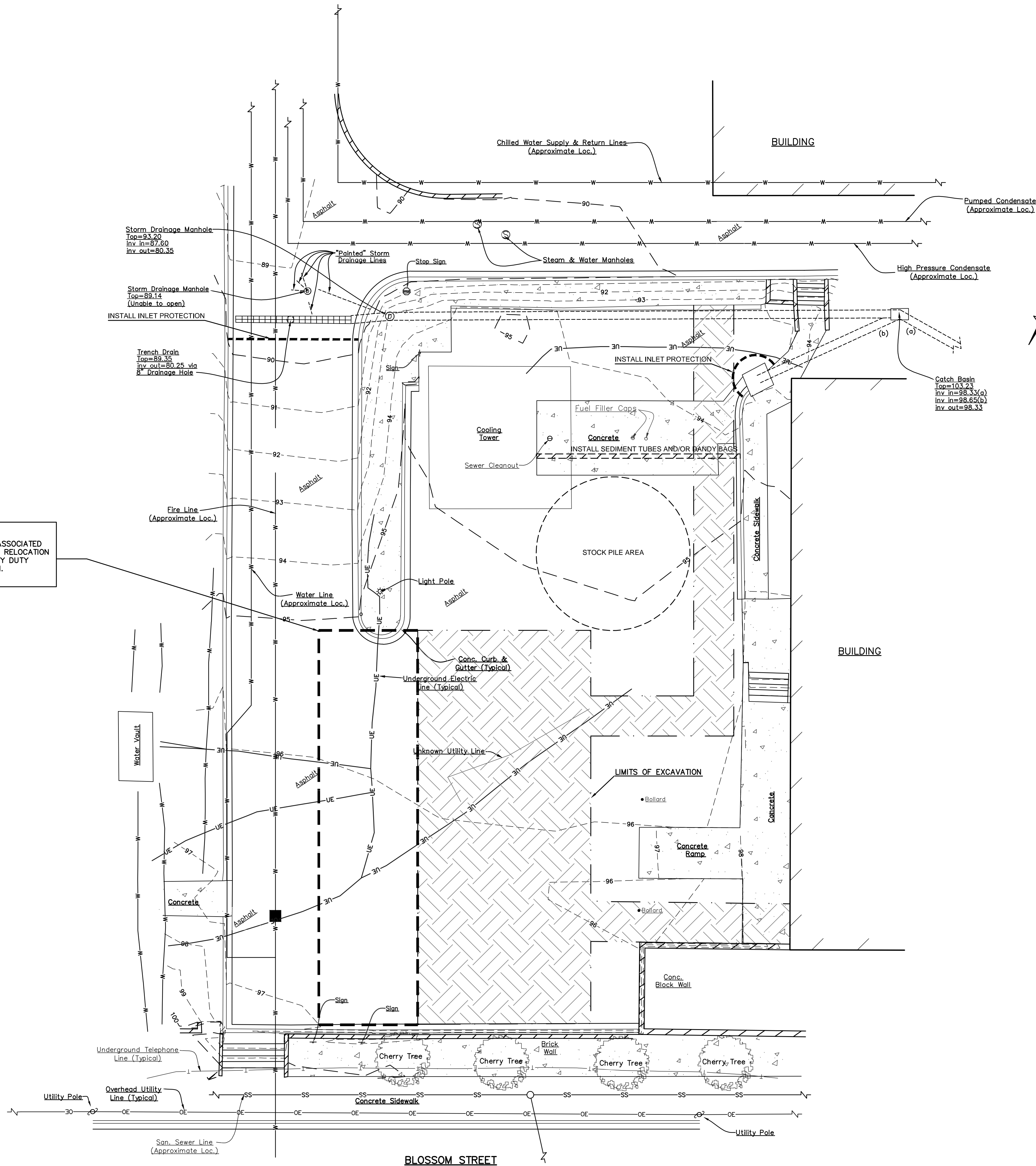


NOTE:  
INFORMATION REGARDING THE REPUTED PRESENCE, SIZE, CHARACTER AND LOCATION OF EXISTING UNDERGROUND UTILITIES AND STRUCTURES WAS OBTAINED FROM LOCAL UTILITY COMPANIES AND AVAILABLE DRAWINGS SUPPLIED BY THE OWNER AND IS SHOWN HEREON. THERE IS NO CERTAINTY OF THE ACCURACY OF THIS INFORMATION AND IT SHALL BE CONSIDERED IN THAT LIGHT BY THOSE USING THIS DRAWING. HOWEVER, COX AND DINKINS, INC. HAS NO NOTICE OR KNOWLEDGE OF ANY FACTS THAT WOULD LEAD US TO CONCLUDE THAT THE INFORMATION IS NOT ACCURATE. BUT UTILITIES AND STRUCTURES NOT SHOWN MAY BE ENCOUNTERED. THE OWNER, HIS EMPLOYEES, HIS CONSULTANTS, HIS ASSIGNS AND HIS CONTRACTORS SHALL HEREBY DISTINCTLY UNDERSTAND THAT COX AND DINKINS, INC. IS NOT RESPONSIBLE FOR THE CORRECTNESS OR SUFFICIENCY OF THE UNDERGROUND INFORMATION. INFORMATION WITH RESPECT TO ABOVE GROUND MONUMENTS OF SUCH UTILITIES IS BASED UPON ACTUAL FIELD MEASUREMENTS AND OBSERVATIONS, AND IS SHOWN HEREON.

The Palmetto Utility Protection Service, Inc.  
810 Dutch Square Blvd., Suite 320 Columbia, South Carolina 29201 (803) 939-1117

**South Carolina 811**  
Call 811 Before you Dig

3 DAYS BEFORE DIGGING IN SOUTH CAROLINA  
**CALL 811**  
CONTRACTOR SHALL CONTACT THE UNDERGROUND LOCATORS EVERY 10 DAYS FOR AN UPDATE TO UTILITY LOCATIONS.



ALTERNATE 1:  
ADD THIRD TANK AND ASSOCIATED DEMOLITION, SITE WORK, RELOCATION OF UTILITIES, AND HEAVY DUTY CONCRETE INSTALLATION.

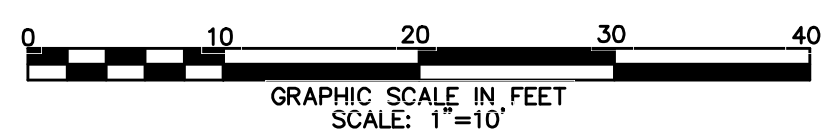
- GENERAL NOTES:**
- UTILITIES SHOWN WERE LOCATED BY GROUND PENETRATING RADAR. THE LOCATION OF UNDERGROUND UTILITIES IS NOT GUARANTEED AND THE CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFYING ALL UTILITIES.
  - CONTRACTOR RESPONSIBLE FOR PROTECTING EXISTING UTILITIES DURING CONSTRUCTION.
  - CONTRACTOR TO CONTACT CITY OF COLUMBIA ENGINEERING PRIOR TO BEGINNING CONSTRUCTION.

**REFERENCES:**

- MASTER PLAN PREPARED FOR THE UNIVERSITY OF SOUTH CAROLINA, DESIGN AND ENGINEERING PROJECT DEVELOPMENT OFFICE, DATED JANUARY 5, 1998, SHEET G-2a.

**NOTES:**

- THE LOCATIONS OF OTHER UNDERGROUND UTILITIES ARE UNKNOWN.
- THE CONTOUR INTERVAL = ONE (1') FOOT.
- ALL DIMENSIONS ARE TO THE FACE OF CURB UNLESS OTHERWISE NOTED.
- ELEVATIONS AND TOPOGRAPHICAL INFORMATION ARE BASED UPON ASSUMED DATUM.
- SAN SEWER LINES, ALL WATER LINES, FIRE LINES, AND STEAM LINES WERE SCALED FROM REFERENCE NO. 1, AND IS ON FILE IN OUR OFFICE



**COX AND DINKINS**  
ENGINEERS - SURVEYORS

COX AND DINKINS, INC.  
724 BELTLINE BLVD.  
COLUMBIA, SC 29205  
803-254-0518  
Fax: 803-765-0993  
Email: cdinc@coxanddinkins.com

PROJECT: 1899

REGISTERED PROFESSIONAL ENGINEER  
NO. 24748

**NOTES:**

- THIS MAP IS NOT MEANT TO REPRESENT A LAND SURVEY IN ANY WAY AND CANNOT BE RECORDED NOR CAN IT BE USED FOR THE CONVEYANCE OF PROPERTY. A BOUNDARY SURVEY HAS NOT BEEN PERFORMED AT THIS TIME.
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- MAPPING DATA PROVIDED BY UNIVERSITY OF SOUTH CAROLINA

84B pg. 49&61

NOTE:  
CONTRACTOR RESPONSIBLE FOR HAULING AND DISPOSAL OF EXCAVATED MATERIAL THAT IS NOT UTILIZED FOR BACKFILL. CONTRACTOR MAY STOCKPILE MATERIAL ON SITE FOR NO MORE THAN 48 HOURS PRIOR TO HAULING AND DISPOSAL.

<b>CAMPUS PLANNING AND CONSTRUCTION</b> COLUMBIA, SC 29208		CHECKED BY: JLP DATE: 1-30-2017 DRAWN BY: CCM DATE: 1-30-2017 DESCRIPTION: RE BID FUEL STORAGE TANK INSTALLATION WEST ENERGY PLANT	DATE: 1-30-2017 DRAWN BY: CCM DATE: 1-30-2017 DESCRIPTION: RE BID FUEL STORAGE TANK INSTALLATION WEST ENERGY PLANT	DATE: 1-30-2017 DRAWN BY: CCM DATE: 1-30-2017 DESCRIPTION: RE BID FUEL STORAGE TANK INSTALLATION WEST ENERGY PLANT	DATE: 1-30-2017 DRAWN BY: CCM DATE: 1-30-2017 DESCRIPTION: RE BID FUEL STORAGE TANK INSTALLATION WEST ENERGY PLANT
PROJECT TITLE: RE BID FUEL STORAGE TANK INSTALLATION WEST ENERGY PLANT					
SHEET: C3					

RICHLAND COUNTY, CITY OF COLUMBIA, SC  
**SEDIMENT & EROSION CONTROL PLAN**  
University of South Carolina

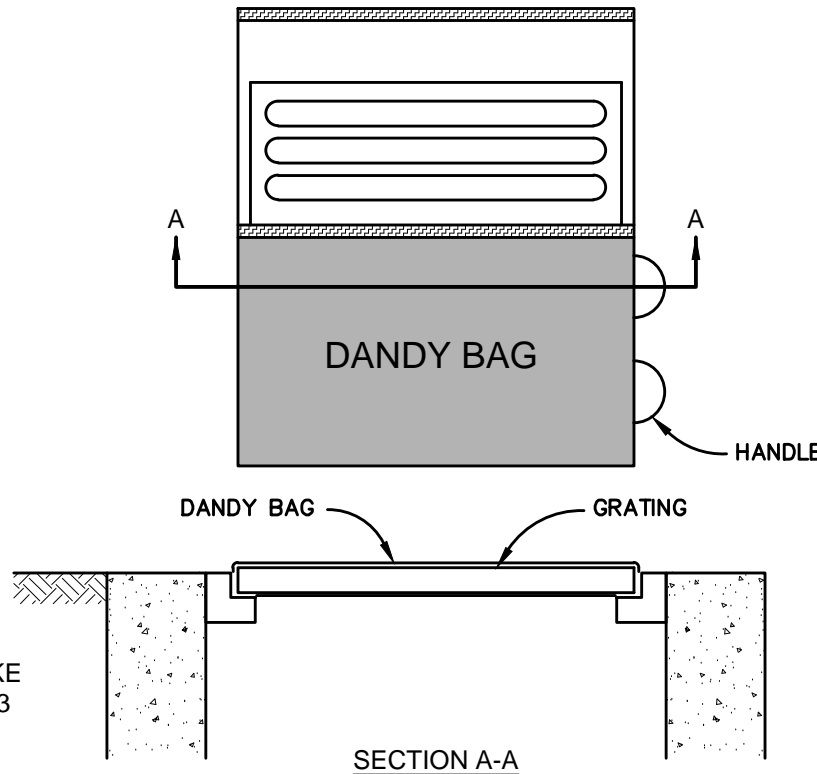


SITE DETAILS:

SEDIMENT AND EROSION CONTROL NOTES

- IF NECESSARY, SLOPES WHICH EXCEED EIGHT (8) VERTICAL FEET SHOULD BE STABILIZED WITH SYNTHETIC OR VEGETATIVE MATS, IN ADDITION TO HYDROSEEDING. 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 THAT PORTION OF THE SITE.
- ALL SEDIMENT AND EROSION CONTROL DEVICES SHALL BE INSPECTED ONCE EVERY CALENDAR WEEK. IF PERIODIC INSPECTION OR OTHER INFORMATION INDICATES THAT A BMP HAS BEEN INAPPROPRIATELY OR INCORRECTLY INSTALLED, THE PERMITTEE MUST ADDRESS THE NECESSARY REPLACEMENT OR MODIFICATION REQUIRED TO CORRECT THE BMP WITHIN 48 HOURS OF IDENTIFICATION.
- 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 ANY SEDIMENT BEFORE BEING PUMPED BACK INTO ANY WATERS OF THE STATE.
- ALL EROSION CONTROL DEVICES SHALL BE PROPERLY MAINTAINED DURING ALL PHASES OF CONSTRUCTION AND UNTIL THE COMPLETION OF ALL CONSTRUCTION ACTIVITIES AND ALL DISTURBED AREAS HAVE BEEN STABILIZED. ADDITIONAL CONTROL DEVICES MAY BE REQUIRED DURING CONSTRUCTION OR ORDER TO CONTROL EROSION AND/OR OFFSITE SEDIMENTATION. ALL TEMPORARY CONTROL DEVICES SHALL BE REMOVED ONCE CONSTRUCTION IS COMPLETE AND THE SITE HAS BEEN STABILIZED.
- THE CONTRACTOR MUST TAKE NECESSARY ACTION TO MINIMIZE THE TRACKING OF MUD ONTO PAVED ROADWAYS AND TO MINIMIZE THE GENERATION OF DUST. THE CONTRACTOR SHALL DAILY REMOVE MUD/SOIL FROM PAVEMENT AS MAY BE REQUIRED.
- RESIDENTIAL SUBDIVISIONS REQUIRE EROSION CONTROL FEATURES FOR INFRASTRUCTURE AS WELL AS FOR INDIVIDUAL LOT CONSTRUCTION. INDIVIDUAL PROPERTY OWNERS SHALL FOLLOW THESE PLANS DURING CONSTRUCTION OR OBTAIN APPROVAL OF AN INDIVIDUAL PLAN IN ACCORDANCE WITH S.C. REG. 72-300 ET SEQ. AND SCR100000.
- TEMPORARY DIVERSION BERMS AND/OR DITCHES MUST 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.
- 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 CANNOT BE MAINTAINED BETWEEN THE DISTURBED AREA AND ALL WOS. A 10-FOOT BUFFER SHOULD BE MAINTAINED BETWEEN THE LAST ROW OF SILT FENCE AND ALL WOS.
- 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.
- A COPY OF THE SWPPP, INSPECTION RECORDS, AND RAINFALL DATA MUST BE RETAINED AT THE CONSTRUCTION SITE OR NEARBY LOCATION EASILY ACCESSIBLE DURING NORMAL BUSINESS HOURS, FROM THE DATE OF COMMENCEMENT OF CONSTRUCTION ACTIVITIES THROUGH THE DATE FINAL STABILIZATION IS REACHED.
- INITIATE STABILIZATION MEASURES ON ANY EXPOSED STEEP SLOPE (3H:1V OR GREATER) WHERE LAND-DISTURBING ACTIVITIES HAVE PERMANENTLY OR TEMPORARILY CEASED, AND WILL NOT RESUME FOR A PERIOD OF 7 CALENDAR DAYS.
- MINIMIZE TOPSOIL COMPACTION AND, UNLESS INFEASIBLE, PRESERVE TOPSOIL.
- 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 THAT PROVIDES EQUIVALENT OR BETTER TREATMENT PRIOR TO DISCHARGE.
- 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).
- THE FOLLOWING DISCHARGES FROM THE SITE ARE PROHIBITED:
  - WASTEWATER FROM THE WASHOUT OF CONCRETE, UNLESS MANAGED BY AN APPROPRIATE CONTROL;
  - WASTEWATER FROM THE WASHOUT 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 AND SOLVENTS USED IN VEHICLE AND EQUIPMENT WASHING.
- AFTER CONSTRUCTION ACTIVITIES BEGIN, INSPECTIONS MUST BE CONDUCTED AT LEAST ONCE EVERY CALENDAR WEEK AND MUST BE CONDUCTED UNTIL FINAL STABILIZATION IS REACHED ON ALL AREAS OF THE CONSTRUCTION SITE.
- IF EXISTING BMPS REQUIRE MODIFICATION 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.
- A PRE-CONSTRUCTION CONFERENCE MUST BE HELD FOR EACH CONSTRUCTION SITE WITH AN APPROVED ON-SITE SWPPP PRIOR TO THE COMMENCEMENT OF CONSTRUCTION ACTIVITIES. FOR NON-LINEAR PROJECTS THAT DISTURB 10 ACRES OR MORE THIS CONFERENCE MUST BE HELD ON-SITE UNLESS THE DEPARTMENT HAS APPROVED OTHERWISE.
- THE CONTRACTOR SHALL MAINTAIN A RAIN GAUGE ON SITE AND MAINTAIN DAILY PRECIPITATION RECORDS IN THE SWPPP MANUAL PER SCDEH'S REQUIREMENTS. THE CONTRACTOR SHALL NOTIFY THE SWPPP INSPECTOR OF ALL RAINFALL EVENTS OF OVER ONE-HALF INCH PRECIPITATION.
- LAND DISTURBING ACTIVITIES SHALL NOT COMMENCE UNTIL APPROVAL TO DO SO HAS BEEN ISSUED BY GOVERNING AUTHORITIES.
- THE CONTRACTOR SHALL COMPLY WITH APPLICABLE STATE AND LOCAL ORDINANCES.
- THE EROSION CONTROL MEASURES INCLUDED IN THE STORM WATER POLLUTION PREVENTION PLAN SHALL BE INSTALLED PRIOR TO INITIAL LAND DISTURBANCE ACTIVITIES OR AS SOON AS PRACTICAL. SEDIMENT SHALL BE PREVENTED FROM DISCHARGING FROM THE PROJECT SITE BY INSTALLING AND MAINTAINING CONTROL PRACTICES AS SHOWN ON THIS PLAN. IF SHOWN ON THESE PLANS, ENERGY-DISSIPATION DEVICES OR EROSION CONTROL AT THE OUTFALL OF THE STORM SEWER SYSTEM SHALL BE INSTALLED AT THE TIME OF THE CONSTRUCTION OF THE OUTFALL STRUCTURAL PRACTICES SHALL BE USED TO CONTROL EROSION FROM ALL SITES REMAINING UNDISTURBED FOR MORE THAN 14 DAYS.
- THE CONTRACTOR SHALL CONTROL WASTES, GARBAGE, DEBRIS, WASTEWATER, AND OTHER SUBSTANCES ON THE SITE IN SUCH A WAY THAT THEY SHALL NOT BE TRANSPORTED FROM THE SITE BY THE ACTION OF WIND, STORM WATER RUNOFF, OR OTHER FORCES. PROPER DISPOSAL OR MANAGEMENT OF ALL WASTES AND UNUSED BUILDING MATERIAL, APPROPRIATE TO THE NATURE OF THE WASTE OR MATERIAL IS REQUIRED. COMPLIANCE IS REQUIRED WITH ALL STATE OR LOCAL REGULATIONS REGARDING WASTE DISPOSAL, SANITARY SEWER, OR SEPTIC SYSTEMS.
- ALL ON-SITE STORM DRAIN INLETS SHALL BE PROTECTED AGAINST SEDIMENTATION AS SHOWN ON THESE PLANS.
- THIS EROSION CONTROL PLAN SHALL BE IMPLEMENTED ON ALL DISTURBED AREAS WITHIN THE CONSTRUCTION SITE. ALL MEASURES INVOLVING EROSION CONTROL PRACTICES SHALL BE INSTALLED UNDER THE GUIDANCE OF QUALIFIED PERSONNEL EXPERIENCED IN EROSION CONTROL, AND FOLLOWING THE PLANS AND SPECIFICATIONS INCLUDED HEREIN.
- DURING THE PERIOD OF CONSTRUCTION ACTIVITY, ALL SEDIMENT BASINS AND OTHER EROSION CONTROL MEASURES SHALL BE MAINTAINED BY THE CONTRACTOR. AT COMPLETION OF CONSTRUCTION, THE CONTRACTOR SHALL COORDINATE THE TRANSFER OF MAINTENANCE RESPONSIBILITIES, IF REQUIRED, WITH THE OWNER. MAINTENANCE SHALL BE IN ACCORDANCE WITH DHEC'S MANUAL, "SOUTH CAROLINA STORMWATER MANAGEMENT AND SEDIMENT CONTROL HANDBOOK FOR LAND DISTURBANCE ACTIVITIES".
- ALL EROSION CONTROL PRACTICES SHALL BE IN ACCORDANCE WITH "SOUTH CAROLINA STORMWATER MANAGEMENT AND SEDIMENT CONTROL HANDBOOK FOR LAND DISTURBANCE ACTIVITIES".
- EXISTING VEGETATION SHALL BE PROTECTED AS MUCH AS PRACTICAL.
- IF SYNTHETIC OR PERMANENT VEGETATIVE MATTING IS USED, THE MANUFACTURER'S REPRESENTATIVE MUST PROVIDE WRITTEN APPROVAL OF THE INSTALLATION OF THE MATERIAL. A COPY THAT LETTER MUST BE PROVIDED TO THE OWNER AND THE ENGINEER.
- IF THE INSTALLATION OF THE STORM DRAINAGE SYSTEM IS INTERRUPTED BY WEATHER OR NIGHTFALL, PIPE ENDS SHALL BE COVERED WITH FILTER FABRIC.
- THE CONTRACTOR SHALL REMOVE SEDIMENT FROM THE DETENTION POND/SEDIMENT BASIN AT SUCH TIME AS IT REACHES A DEPTH OF 0.5 FEET ABOVE THE DESIGN BOTTOM ELEVATION OF THE POND/BASIN. DISPOSAL OF THE MATERIAL IS ALSO THE RESPONSIBILITY OF THE CONTRACTOR.
- THE CONTRACTOR SHALL REMOVE ALL ACCUMULATED SEDIMENT FROM THE DETENTION POND/SEDIMENT BASIN AFTER THE SITE IS STABILIZED, ENSURING THAT THE DESIGN VOLUME OF THE POND/BASIN HAS BEEN PROVIDED FOLLOWING STABILIZATION.
- ALL TEMPORARY CONTROL DEVICES SHALL BE REMOVED ONCE CONSTRUCTION IS COMPLETE AND THE SITE IS STABILIZED.
- THE CONTRACTOR SHALL RESPREAD THE TOPSOIL ON SITE AS MUCH AS POSSIBLE PRIOR TO FINAL GRADING AND STABILIZATION.
- THIS PLAN SHALL NOT BE CONSIDERED ALL INCLUSIVE. THE CONTRACTOR SHALL TAKE ALL NECESSARY MEASURES AT HIS EXPENSE TO REDUCE EROSION AND PREVENT SEDIMENT FROM LEAVING THE SITE. THE CONTRACTOR IS RESPONSIBLE FOR ALL CLEANUP AND REPAIR ON-SITE AND DOWNSTREAM DUE TO EROSION AND SILTATION.

CONTACT INFO:  
DANDY PRODUCTS  
2011-R HARRISBURG PIKE  
GROVE CITY, OHIO 43123  
800-591-2284

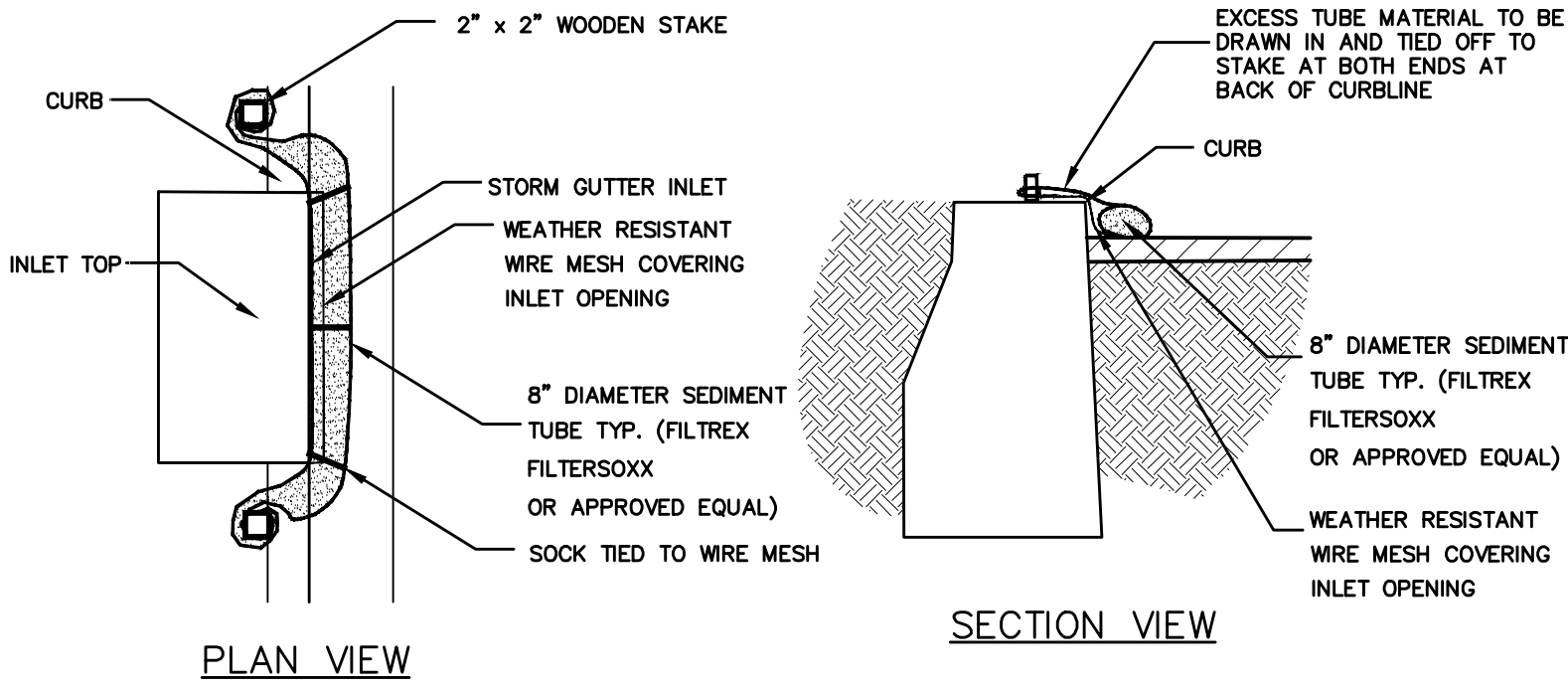


INSTALLATION : STAND GRATE ON END. PLACE DANDY BAG OVER GRATE. FLIP GRATE OVER SO THAT OPEN END IS UP. PULL UP SLACK. TUCK FLAP IN. BE SURE END OF GRATE IS COMPLETELY COVERED BY FLAP OR DANDY BAG WILL NOT FIT PROPERLY. HOLDING HANDLES, CAREFULLY PLACE DANDY BAG WITH GRATE INSERTED INTO CATCH BASIN FRAME, SO THAT RED DOT ON THE TOP OF THE DANDY BAG IS VISIBLE.

MAINTENANCE : AFTER SILT HAS DRIED, REMOVE IT FROM THE SURFACE OF DANDY BAG WITH BROOM.

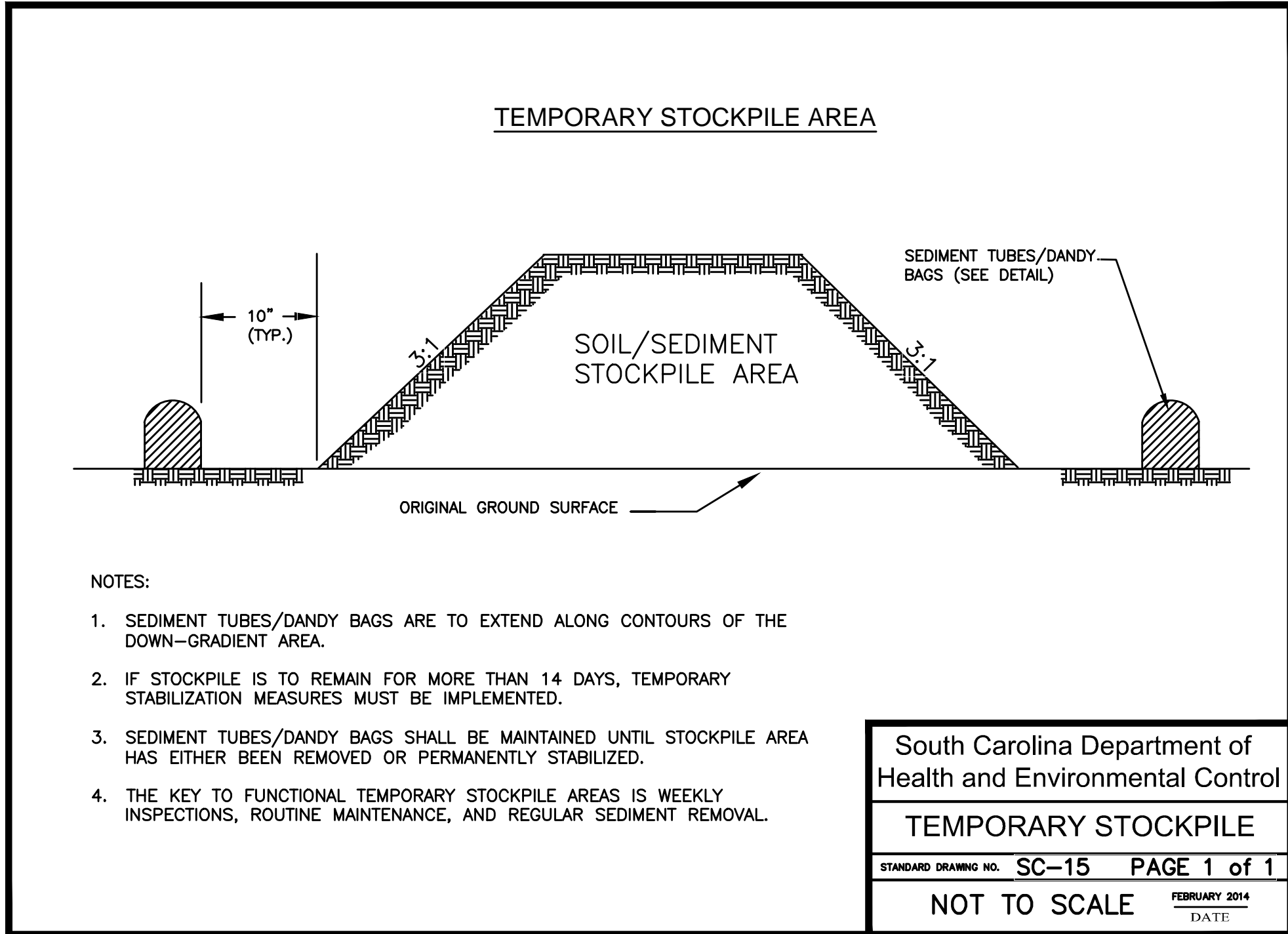
DANDY BAG INLET PROTECTION DETAIL

(OR ENGR APPROVED EQUAL)  
NTS



SEDIMENT TUBE INLET PROTECTION DETAILS

NTS



NOTES:

- SEDIMENT TUBES/DANDY BAGS ARE TO EXTEND ALONG CONTOURS OF THE DOWN-GRADIENT AREA.
- IF STOCKPILE IS TO REMAIN FOR MORE THAN 14 DAYS, TEMPORARY STABILIZATION MEASURES MUST BE IMPLEMENTED.
- SEDIMENT TUBES/DANDY BAGS SHALL BE MAINTAINED UNTIL STOCKPILE AREA HAS EITHER BEEN REMOVED OR PERMANENTLY STABILIZED.
- THE KEY TO FUNCTIONAL TEMPORARY STOCKPILE AREAS IS WEEKLY INSPECTIONS, ROUTINE MAINTENANCE, AND REGULAR SEDIMENT REMOVAL.

South Carolina Department of  
Health and Environmental Control

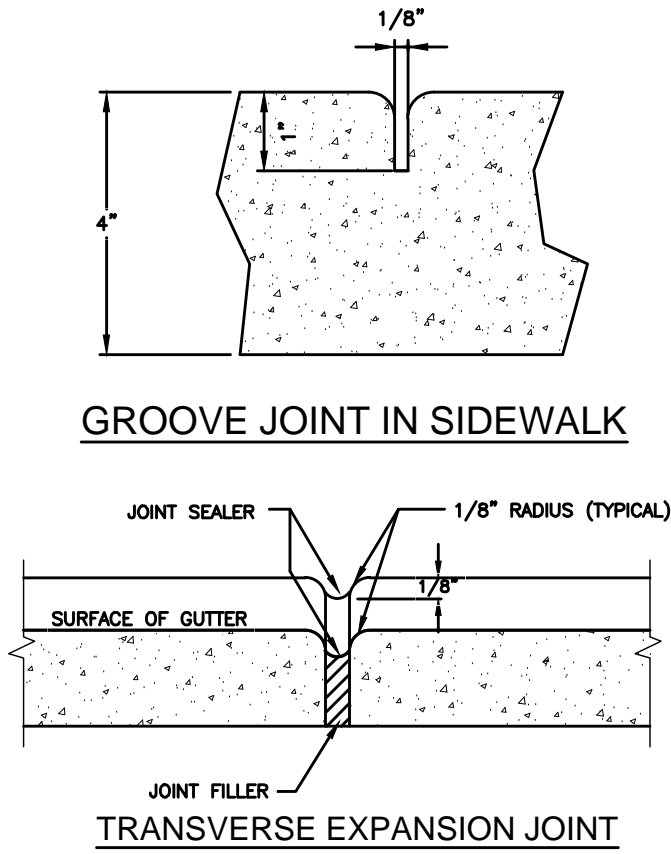
TEMPORARY STOCKPILE

STANDARD DRAWING NO. SC-15 PAGE 1 of 1

NOT TO SCALE

FEBRUARY 2014

SITE DETAILS:



GROOVE JOINT IN SIDEWALK

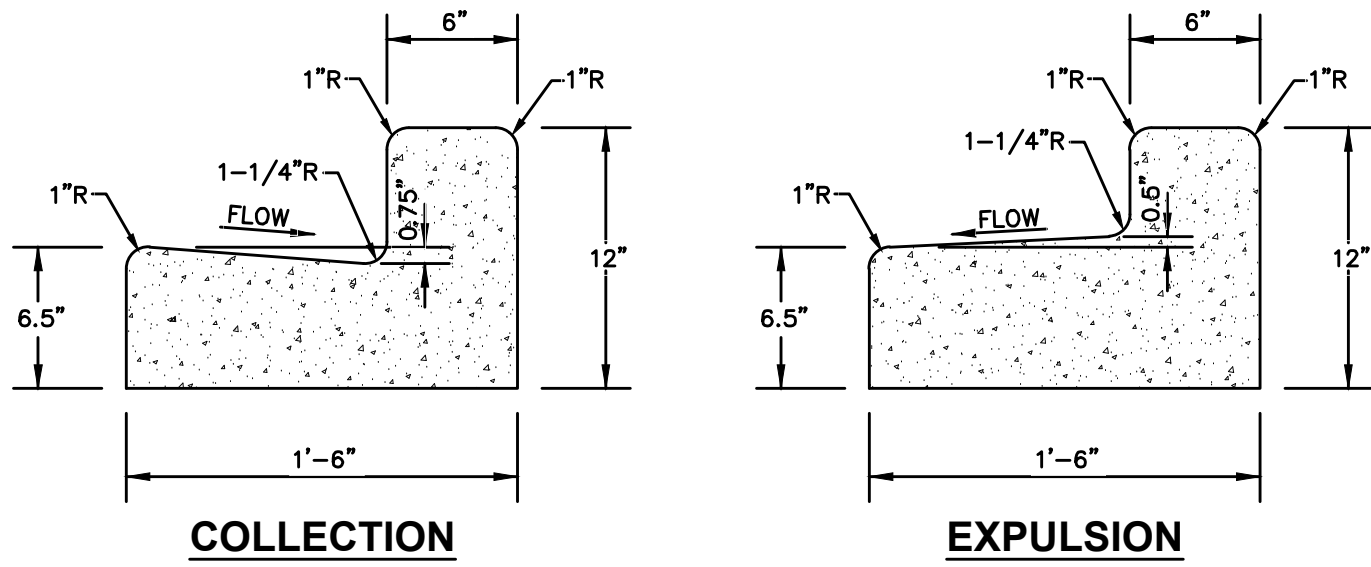
TRANSVERSE EXPANSION JOINT

NOTES:

- CONTRACTION JOINTS SHALL BE SPACED AT 10-FOOT INTERVALS. FOR VALLEY GUTTER, A 10-FOOT SPACING MAY BE USED WHEN A MACHINE IS USED. JOINT SPACING MAY BE ALTERED BY THE ENGINEER TO PREVENT UNCONTROLLED CRACKING.
- CONTRACTION JOINTS MAY BE INSTALLED BY THE USE OF TEMPLATES OR FORMED BY OTHER APPROVED METHODS. WHERE SUCH JOINTS ARE NOT FORMED BY TEMPLATES, A MINIMUM DEPTH OF 1 1/2" SHALL BE OBTAINED.
- ALL EXPANSION JOINTS SHALL BE SPACED AT 90-FOOT INTERVALS, AND ADJACENT TO ALL RIGID OBJECTS. JOINTS SHALL MATCH LOCATIONS WITH JOINTS IN ABUTTING SIDEWALK.
- CONCRETE COMPRESSIVE STRENGTH SHALL BE 3600 P.S.I. IN 28 DAYS.
- CURB SHALL BE DEPRESSED AT INTERSECTIONS TO PROVIDE FOR FUTURE ACCESSIBLE RAMPS.
- TOP 6" OF SUBGRADE BENEATH THE CURB AND GUTTER SHALL BE COMPACTED TO 100% STANDARD PROCTOR DENSITY.

CONCRETE CURB & GUTTER EXPANSION JOINT DETAIL

NTS

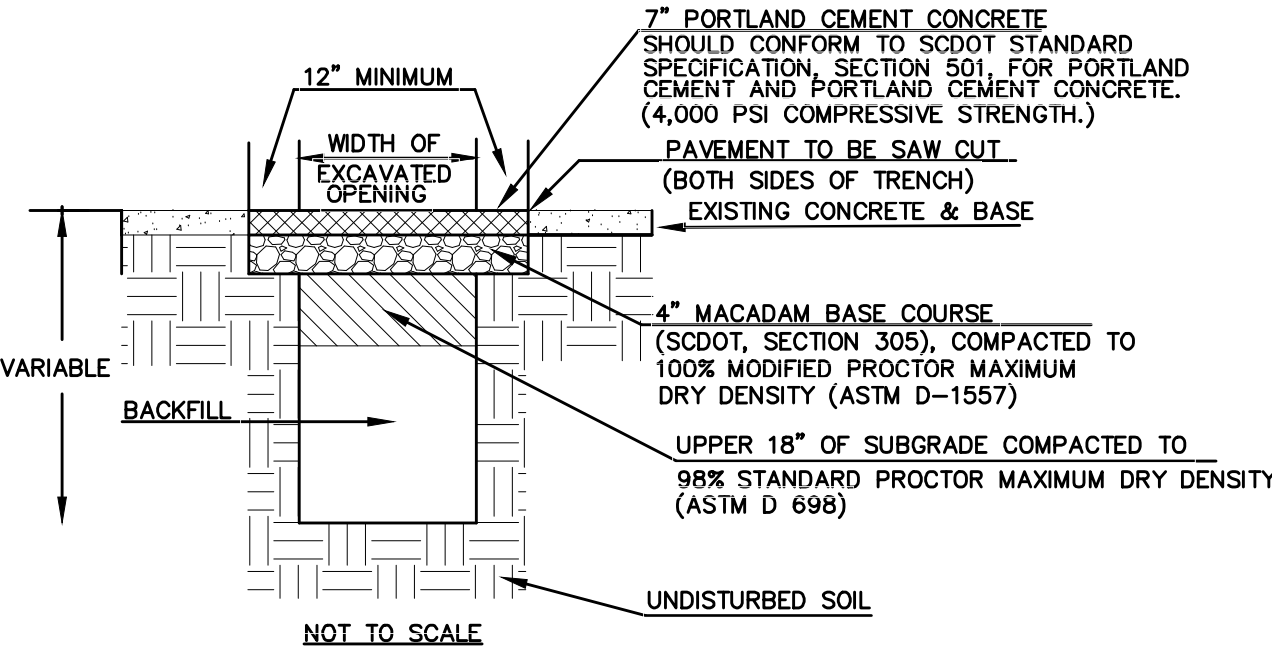


COLLECTION

EXPULSION

"L" TYPE CURB AND GUTTER

NTS  
Min. Concrete Strength = 2500 p.s.i.



NOTES:

- ALL THICKNESS SHOWN ARE MINIMUM COMPACTED.
- PAVEMENT SECTIONS ARE TO BE VERIFIED W/ GEOTECHNICAL ENGINEER BEFORE CONSTRUCTION.
- CONTRACTOR SHALL COMPLY WITH ALL TALK MANUFACTURER'S SPECS FOR BACKFILL MATERIAL, PROCEDURE AND COMPACTION

NOTE: THE BACKFILL SHALL BE MADE IN 6" LAYERS AND SHALL BE COMPACTED TO AT LEAST 98% OF STANDARD PROCTOR MAXIMUM DRY DENSITY.

CONCRETE PAVEMENT REPAIR DETAIL

NTS  
VERIFY WITH GEOTECHNICAL REPORTS

PROJECT TITLE: RE BID FUEL STORAGE TANK INSTALLATION WEST ENERGY PLANT	CHECKED BY: JLP	ORIG. BY JLP	DATE: 1-30-2017	DRAWN BY: CSM	DATE: 1-30-2017	DESCRIPTION	REV.	SHEET:	C4

CAMPUS PLANNING  
AND CONSTRUCTION  
COLUMBIA, SC 29208

CERTIFICATE OF AUTHORIZATION  
COX AND DINKINS, INC.  
No. C00294

RICHLAND COUNTY, CITY OF COLUMBIA, SC  
SITE, SEDIMENT & EROSION DETAILS  
University of South Carolina



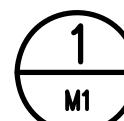
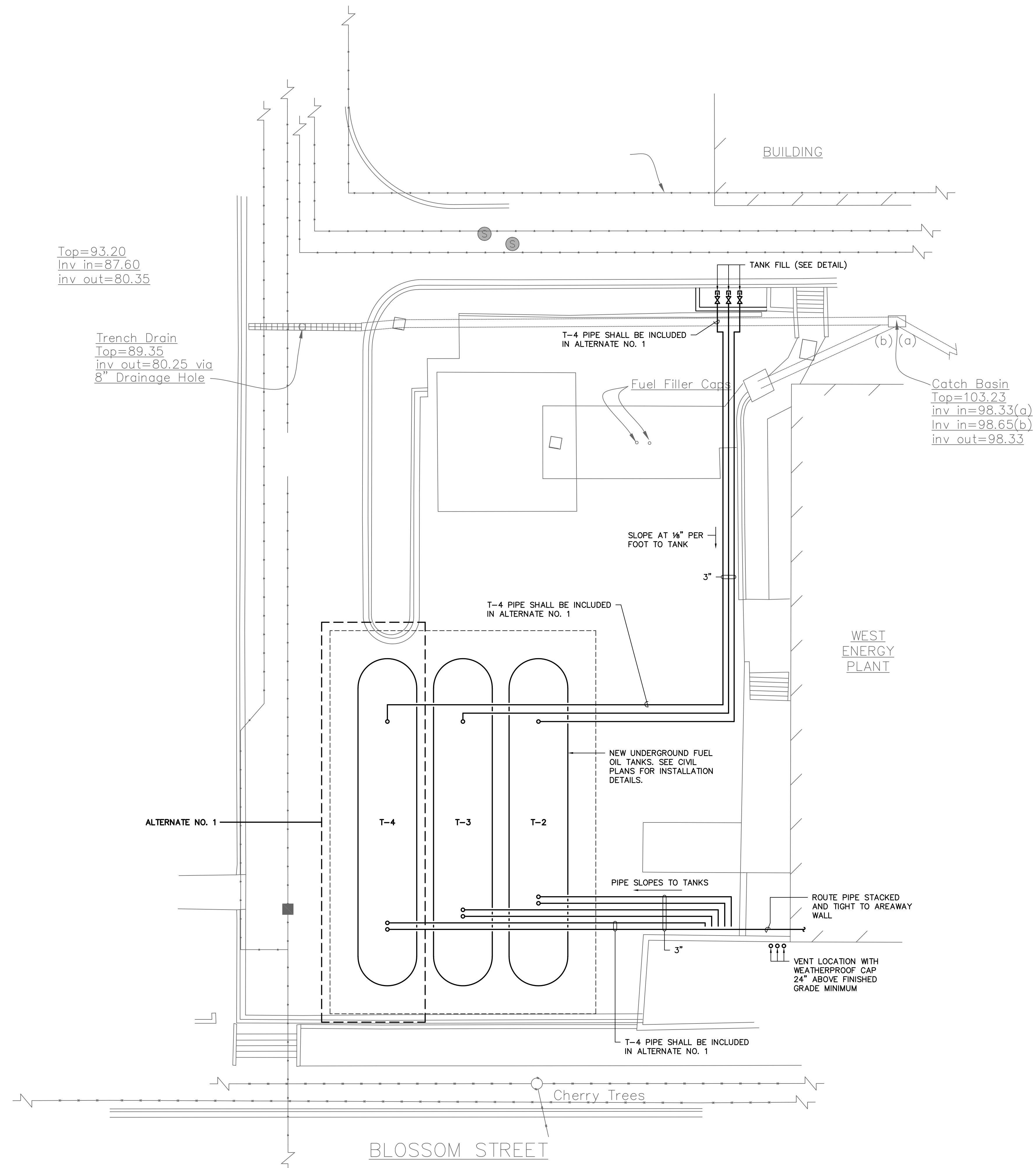
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PROJECT TITLE: RE-BID FUEL STORAGE TANK INSTALLATION  
WEST ENERGY PLANT

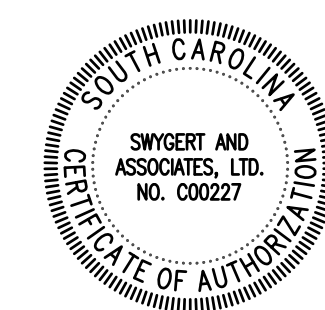


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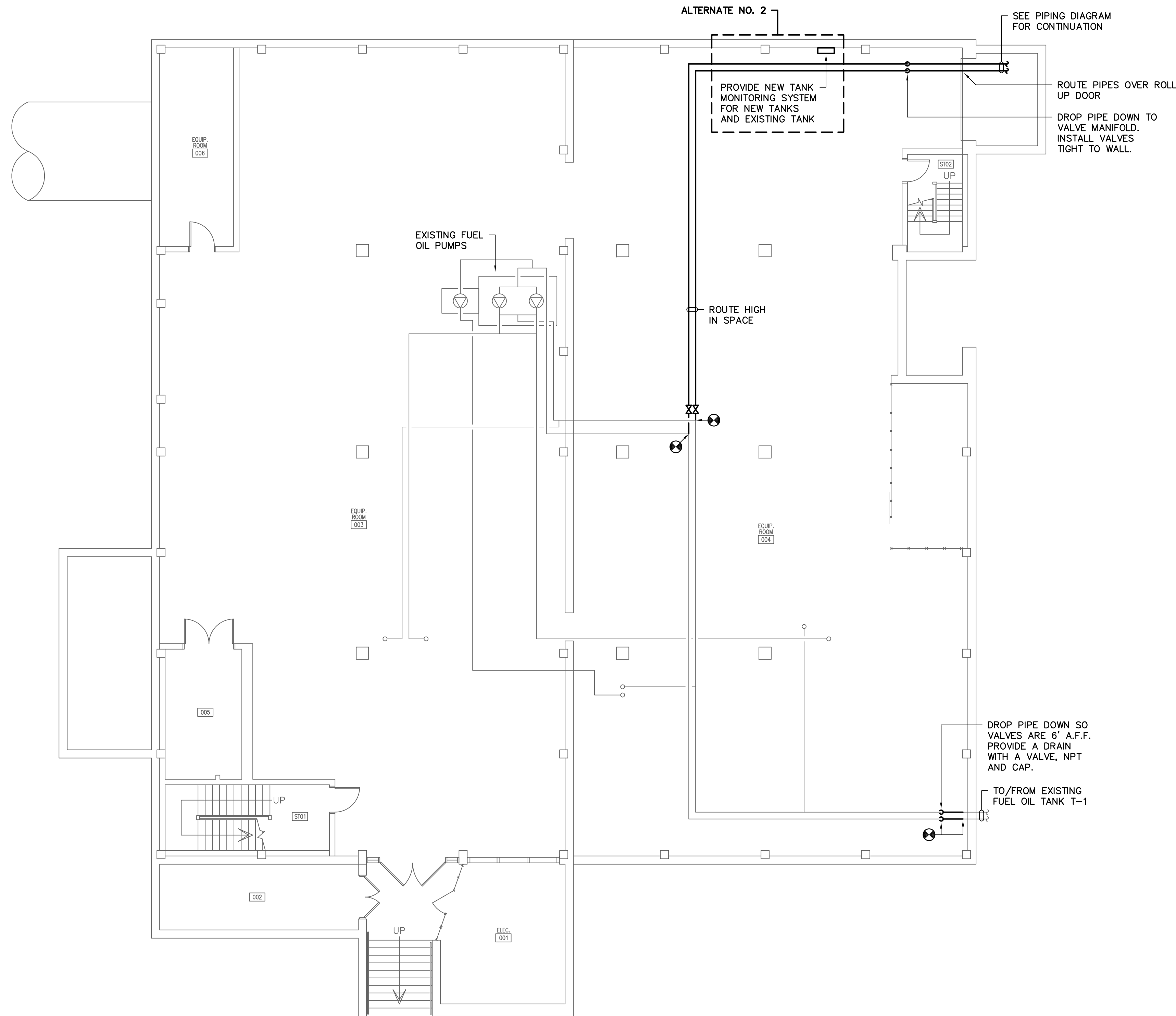


SCALE: 1" = 10'



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Post Office Box 11686 Facsimile: (803) 791-0830  
Columbia, S.C. 29211 mail@swygert-associates.com

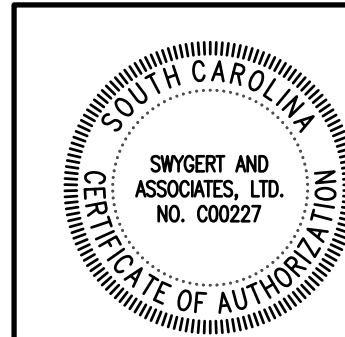
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1  
M2

# WEST ENERGY FACILITY BASEMENT FLOOR PLAN

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



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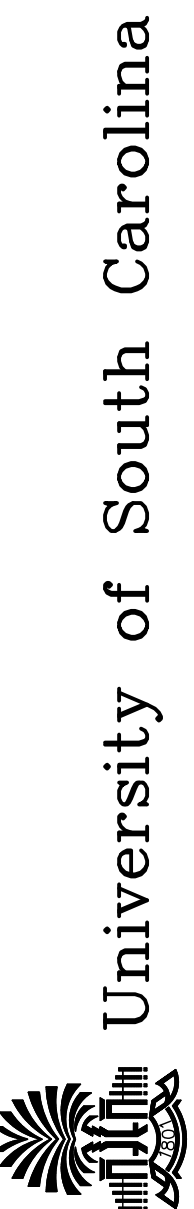
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OF

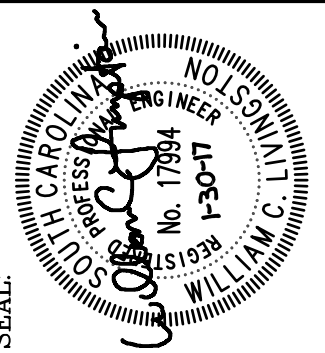
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PROJECT TITLE: RE-BID FUEL STORAGE TANK INSTALLATION  
WEST ENERGY PLANT



University of South Carolina



SEAL:

CHECKED BY: WCL  
ORIG. BY/DRAWN BY

DEM  
DATE

DRAWN BY:

DATE: 30JAN17

DESCRIPTION

DRAWING:

BUILDING:

REV.

REV.

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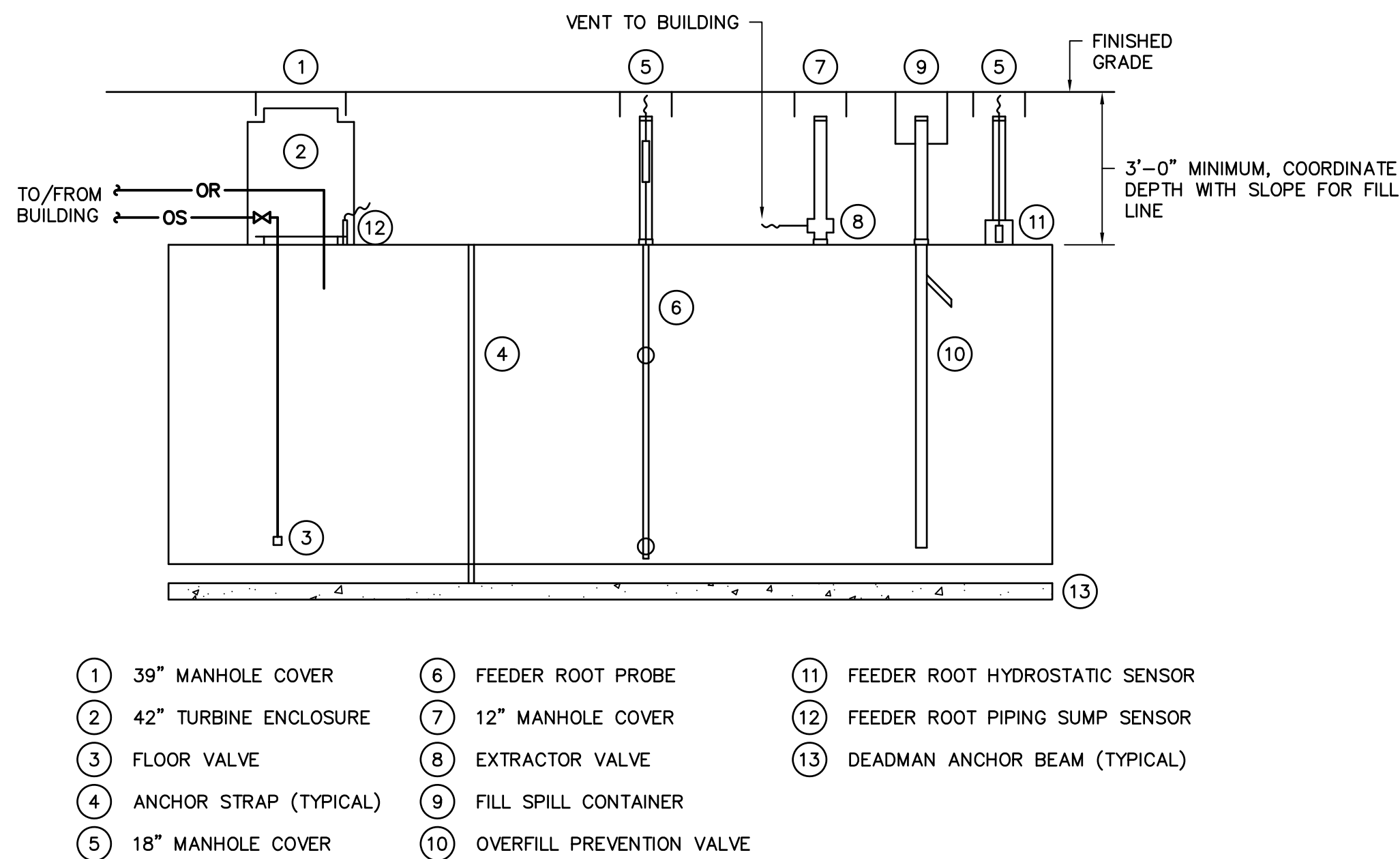
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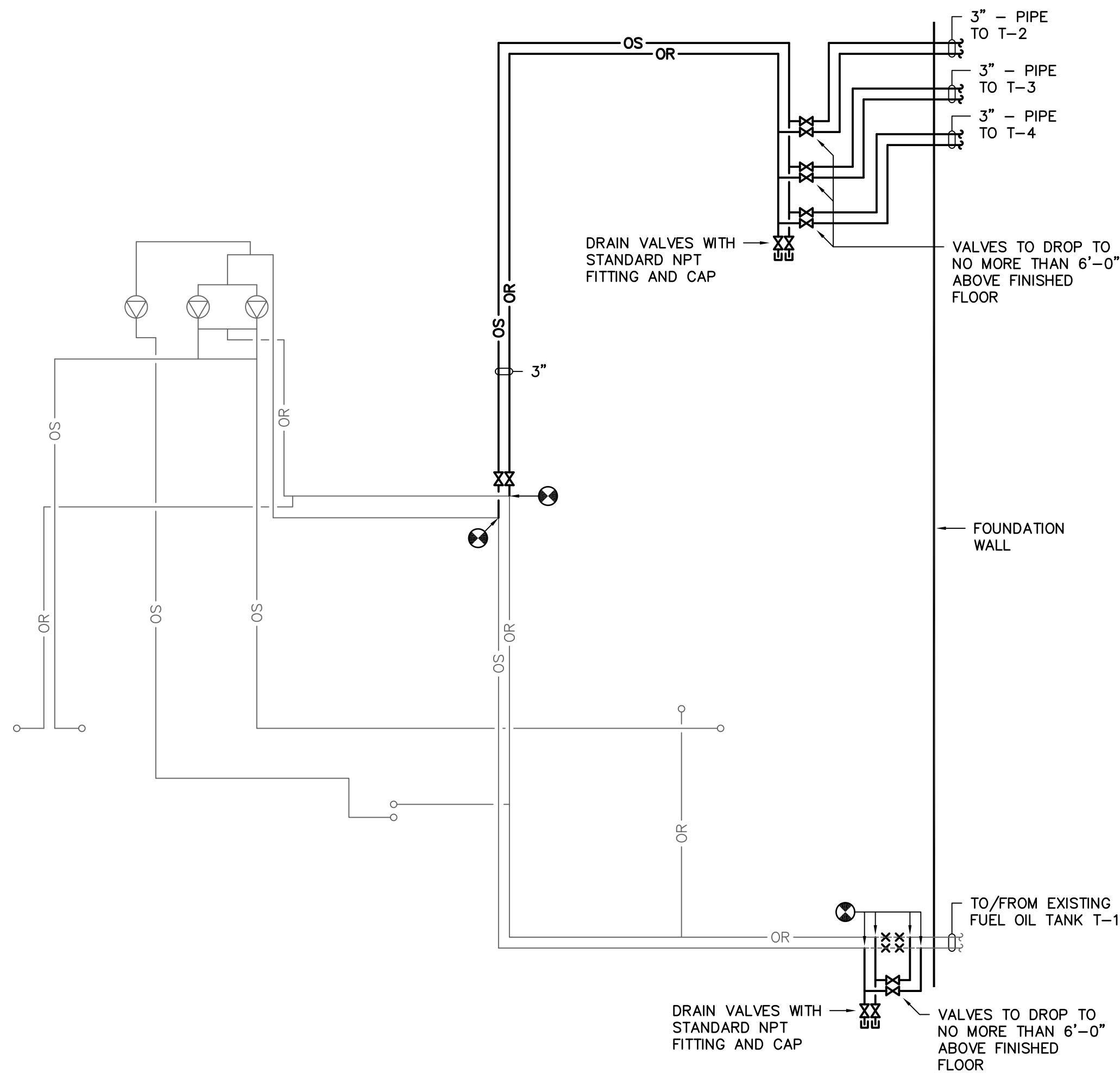
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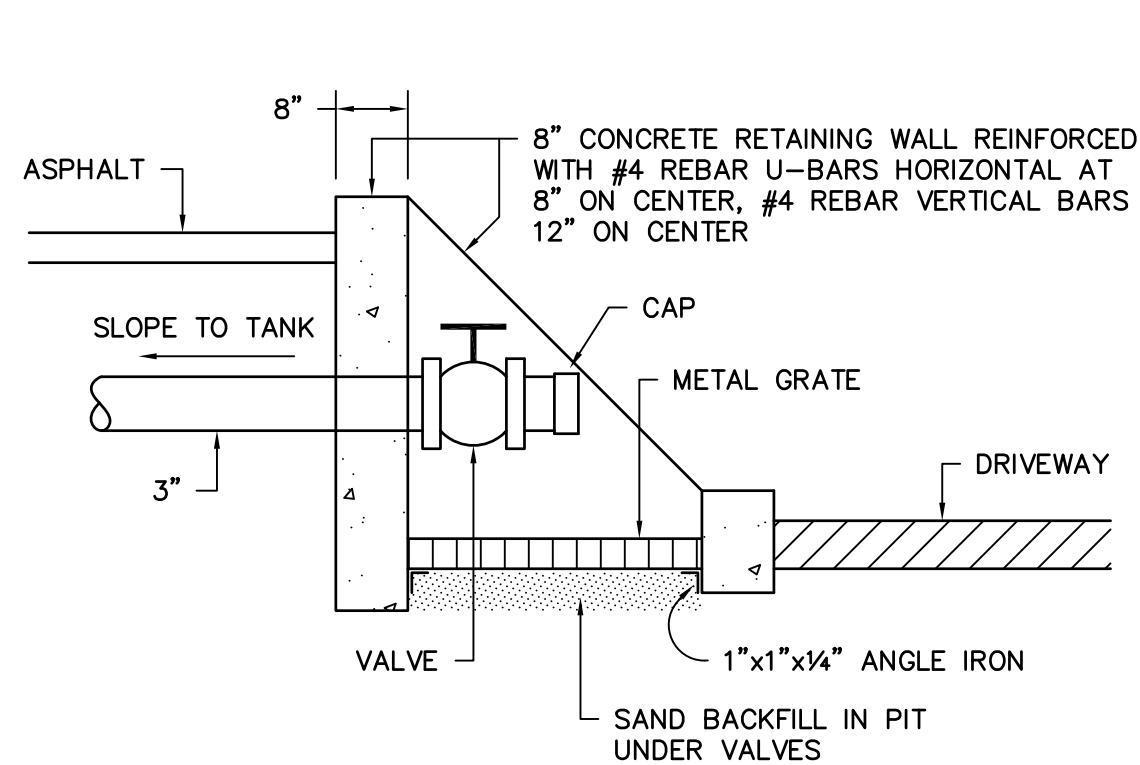
### FUEL OIL TANK DETAIL

NO SCALE



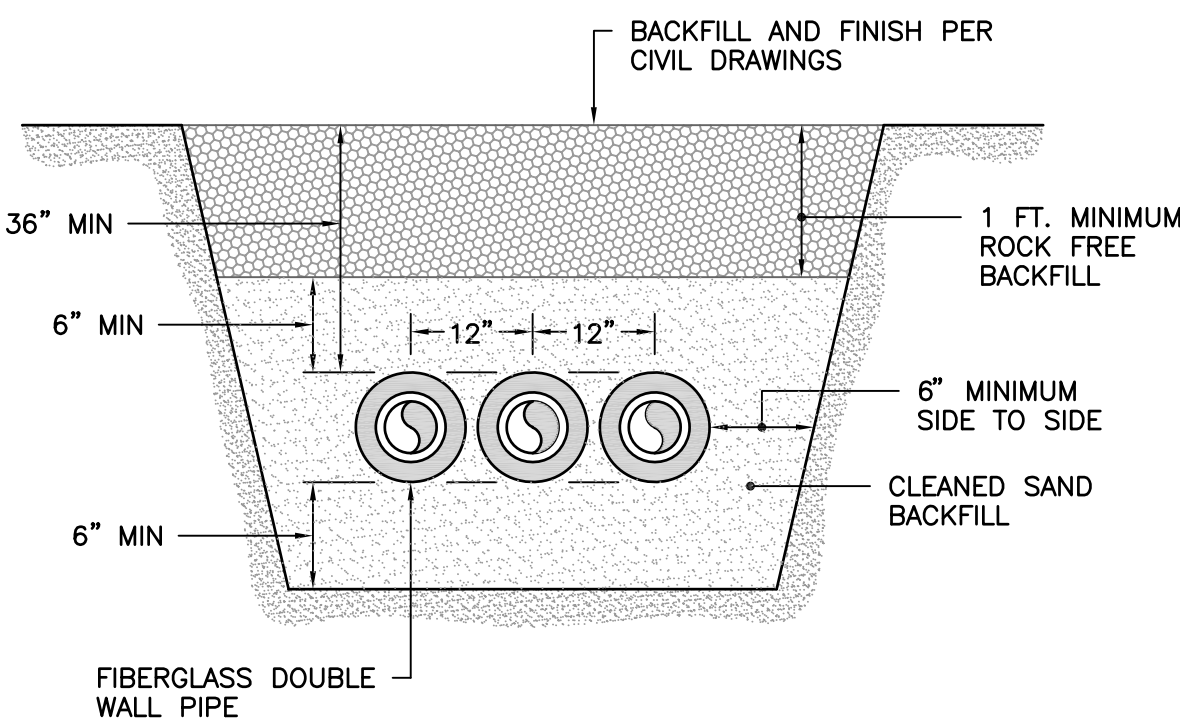
### PIPING DIAGRAM

NO SCALE



### FILL DETAIL

NO SCALE



### BACKFILL DETAIL

NO SCALE

### TANK SCHEDULE

TAG	MODEL
T-2	30,000 GALLON TANK
T-3	30,000 GALLON TANK
T-4	30,000 GALLON TANK (ALTERNATE NO. 1)

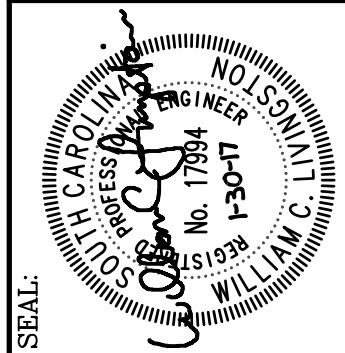
### GENERAL NOTES

- VISIT SITE PRIOR TO BIDDING. THIS CONTRACTOR SHALL DETERMINE DIFFICULTY OF INSTALLATION AND REFLECT THIS IN HIS BIDDING.
- DO NOT SCALE DRAWINGS. THIS CONTRACTOR SHALL VERIFY ALL EXISTING ITEMS AND LOCATIONS IN THE FIELD.
- ALL PIPING LOCATIONS SHALL BE COORDINATED WITH WORK UNDER OTHER DIVISIONS OF THE SPECIFICATIONS TO AVOID INTERFERENCE.
- EXISTING PIPE, DUCTWORK, CONDUIT, ETC. THAT INTERFERES WITH THE ROUTING OF NEW SYSTEMS SHALL BE RELOCATED. THIS CONTRACTOR SHALL INCLUDE THE COST OF SUCH IN HIS BID UNLESS NOTED OTHERWISE.
- SEE SITE PLAN FOR CONTINUATION OF UTILITIES.
- PIPE SYSTEMS SHALL BE DRAINED AS REQUIRED FOR INSTALLATION OF WORK. UPON COMPLETION, SYSTEM SHALL BE FILLED AND VENTED OF ALL AIR.
- ALL PIPING IS SHOWN DIAGRAMMATIC. HOWEVER, THIS CONTRACTOR SHALL PROVIDE ALL REQUIRED FITTINGS, PIPING AND INSULATION FOR ALL OFFSETS AND/OR CHANGES IN ELEVATION.
- ALL VALVES AND SPECIALTIES SHALL BE LINE SIZE UNLESS NOTED OTHERWISE, USING ECCENTRIC REDUCERS ON PUMP SUCTION AND CONCENTRIC REDUCERS ON PUMP DISCHARGE. USE ECCENTRIC REDUCERS ON AUTOMATIC VALVES AS REQUIRED.
- ALL PIPING SHALL BE SUPPORTED IN ACCORDANCE WITH THE SPECIFICATIONS AND FURTHER SUPPORTS OR HANGERS SHALL BE PROVIDED TO PREVENT WEIGHT OF PIPING BEING PLACED ON EQUIPMENT.
- THIS CONTRACTOR SHALL PROVIDE ALL ITEMS OF MISCELLANEOUS STEEL AS REQUIRED FOR INSTALLATION OF ALL MECHANICAL ITEMS.
- THIS CONTRACTOR SHALL DO ALL CONTROL WIRING AND ALL POWER WIRING. ALL WIRING SHALL BE IN ACCORDANCE WITH NATIONAL ELECTRIC CODE. CONTROL WIRING SHALL BE ROUTED IN EMT CONDUIT.
- THIS CONTRACTOR SHALL BE RESPONSIBLE FOR ANY NECESSARY DISMANTLING OF EQUIPMENT TO BE REMOVED. ITEMS REMOVED UNDER THIS CONTRACT SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE DISPOSED OF PROPERLY.
- THIS CONTRACTOR SHALL PATCH ALL WALLS AND FINISHES TO MATCH EXISTING WHERE ALL ITEMS OR EQUIPMENT ARE REMOVED.

### LEGEND

SYMBOL	DESCRIPTION
OS	OIL SUPPLY LINE
OR	OIL RETURN LINE
SHUTOFF VALVE	SHUTOFF VALVE
PIPE TURNS TO, AWAY	PIPE TURNS TO, AWAY
CONNECTION POINT OF NEW TO EXISTING	CONNECTION POINT OF NEW TO EXISTING

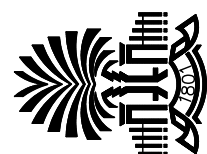
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CHECKED BY:	WCL	DATE:	30JAN17
ORIG. BY:		DATE:	
REV.		DESCRIPTION	

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M3

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