

Addendum Three

October 26, 2016

NOTE: The following amendments, additions, and deletions shall be made to the Construction Documents and Contract Documents. Insofar as those documents are at variance with this Addendum, this Addendum shall govern.

Clarifications

- | <u>Item No.</u> | <u>Description</u> |
|-----------------|---|
| 1. | <u>Clarification:</u> The site electrical wiring should be rerouted so it is not on top of the new fuel oil tanks and routed around the new tanks. |
| 2. | <u>Clarification:</u> Spill buckets are not required for this application. |
| 3. | <u>Clarification:</u> The vent location shown on the plans indicates the location for the tank vents. There should be a separate vent for each tank. |
| 4. | <u>Clarification:</u> Veeder-Root is the only approved manufacturer for the tank monitoring system. |
| 5. | <u>Clarification:</u> The site electrical conduit and wire size is shown as 2" but should match the existing sizes. |
| 6. | <u>Clarification:</u> The site light poles are owned by USC. |
| 7. | <u>Clarification:</u> The 45 days listed on the bid form is to include the on site work only. Equipment and material delivery and preconstruction time are not included in the 45 days. |
| 8. | <u>Clarification:</u> Dirt excavated from the site can be stored on another nearby location at USC, within 2 miles of the site, until used for backfill. Any excess dirt shall be disposed of by the Contractor. |
| 9. | <u>Clarification:</u> The existing tank probes in the existing Tank number 1 shall be reused and connected to the new tank monitoring system. |
| 10. | <u>Clarification:</u> The existing power circuit supplying power to the existing tank monitoring system will be reused for the new tank monitoring system shown in a new location. The wiring will be rerouted by the Contractor to the new location shown. |
| 11. | <u>Question:</u> Please confirm if subcontractor listing will or will not be required on the bid documents.
<u>Answer:</u> Subcontractor listing is not required on the bid form. |

Fuel Storage Tank Installation
West Energy Plant
University of South Carolina
State Project Number H27-Z228

12. Question: Will only the electrical shown on the drawings will be required to be relocated and not water or other unknown utilities?
Answer: The design team conducted ground penetrating radar on the site and to the best of our knowledge only the site lighting will need to be relocated. However the location of all underground utilities is of course unknown. The contractor should price relocation of the site lighting only. If other utilities are encountered then the cost for relocation of such utilities will be discussed.
13. Question: Will the new Veeder Root console be required to also be connected to the existing overfill alarm and acknowledgement switch located on the exterior wall near the existing fuel tank?
Answer: Yes.
14. Question: Will our pricing need to include either sales or use tax? If not, will we be provided with a tax exemption certificate for the same?
Answer: Yes all taxes and fees should be included in the bid.
15. Question: Please confirm if all surfaces to be repaired will be with concrete or asphalt or a combination?
Answer: All surfaces to be repaired with heavy duty concrete per the patch detail.
16. Question: Will the 2” fill lines for the new tanks shown on the drawings be increased in size?
Answer: Yes they will be changed to 3” per this addendum.
17. Question: The existing supply and return piping inside of the building appears to be 3” in size. The new piping is shown as 2”. Will the new piping be required to be 3” to match the existing?
Answer: Yes they will be changed to 3” per this addendum.
18. Question: In reference to #7, the exterior underground supply and return piping is also shown as 2” in size. Will it also be required to be 3”?
Answer: Yes they will be changed to 3” per this addendum.
19. Question: Is there any additional information regarding the existing utilities in the area that can be accessed?
Answer: A combination of USC record drawings and ground penetrating radar was used to approximate the location of existing utilities to the best of our ability without excavation.
20. Question: Will the parking spaces required to be re-striped?
Answer: Yes parking should be restriped with water based paint of matching color.

Fuel Storage Tank Installation
West Energy Plant
University of South Carolina
State Project Number H27-Z228

Drawings

<u>Item No.</u>	<u>Description</u>
21.	<u>Revision:</u> Reference Drawing M1, Site Plan. Change the pipe size for the fill lines from 2" to 3". Change the size for the oil supply and oil return pipe to the tanks from 2" to 3".
22.	<u>Revision:</u> Reference Drawing M1, Site Plan. The vent location shown should indicate that three vents are located here, one separate vent pipe for each tank.
23.	<u>Revision:</u> Reference Drawing M3, Details and Notes. The oil supply and oil return pipe sizes have been changed to 3".

END OF ADDENDUM

Attachments:
Pre Bid Sign In Sheet
M1 – Revision 1
M3 – Revision 1

**University of South Carolina
Pre Bid Sign In Sheet
Columbia, South Carolina**

Project Name: Fuel Storage Tanks Installation West Energy Plant
Project Number: H27-Z228
Pre Bid Date & Time: October 19, 2016, 10:00 AM

SWMBE?	Name	Company Name	Address	Phone #	Email
Yes No	Juaquana Brookins	USC	743 Greene St, Columbia SC 29208	803.777.3596	jbrookin@fmc.sc.edu
Yes No	Dennis Cain	Cobb Env			
Yes No	Nick Miller	Shandy Electric		794-2322	nichmill@shandyelectric.com
Yes No	JASON PUGH	HAMMERTHO UTILITIES	P.O. Box 9614 COLUMBIA, SC	803-791-4816	JASON@HTHULLC.COM
Yes No	BILL LIVINGSTON	SWYGERT ASSOCIATES	BIS STATE ST	791-9300	BILLESWYGERT-ASSOCIATES.COM
Yes No	Jerry L Knox	USC	743 Greene St	260-2361	KNOXJL3@MAILBOX.SC.EDU
Yes No	Troy Nabeed	USC	743 Greene St	807-7308	tnabeed@SC.EDU
Yes No	Dennis Cain	COBB ENV	TUPelo MS 5415 J. Green St		
Yes No	MARY W. WILLIAMS	COBB ENV	8415 GREENE ST		

****By signing this sheet you agree to receive information electronically.

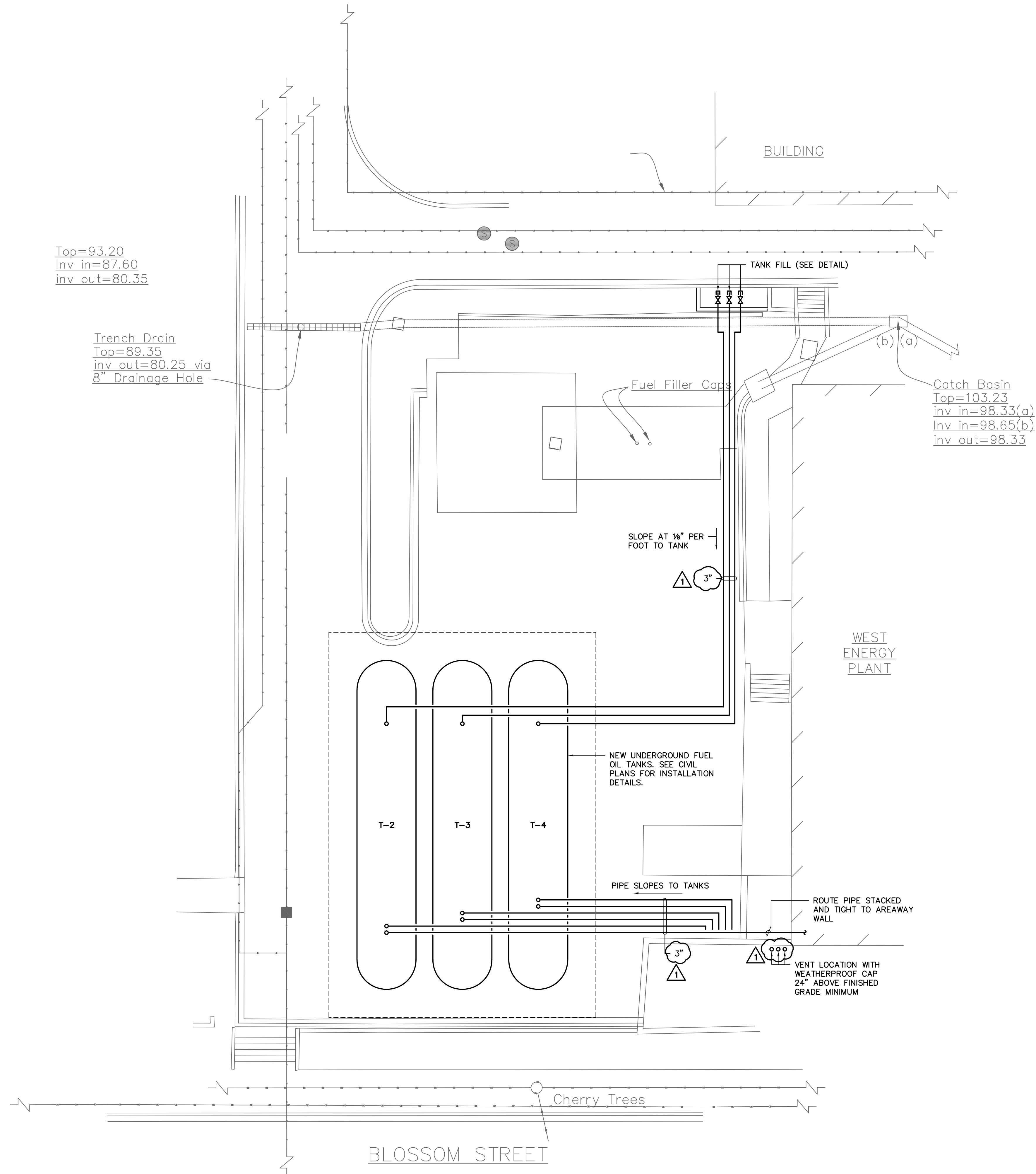
University of South Carolina
Pre Bid Sign In Sheet
 Columbia, South Carolina

Project Name: Fuel Storage Tanks Installation West Energy Plant
 Project Number: H27-Z228
 Pre Bid Date & Time: October 19, 2016, 10:00 AM

SWIMBE?	Name	Company Name	Address	Phone #	Email
Yes No	B.B. Bell	Gregory Industrial	2124 College St Columbia, SC 29205	803-748-1742	bbbell@gregoryindustrial.com
Yes No	Sam McClaw	Gregory Electric	✓	803-608-3619	Samuel@gregoryelectric.com
Yes No	Bill Terzian	JONES, Frank	2010 ROCKLAND RD COLUMBIA, SC 29210	803-581-1530	BT@JONES-FRANK.COM
Yes No	Will Thompson	N. CLARKE MECH	685 Sahn Dobb Spartanburg, SC	804-599-7885	will@ncclearkemechanical.com
Yes No					
Yes No					
Yes No					
Yes No					

***By signing this sheet you agree to receive information electronically.

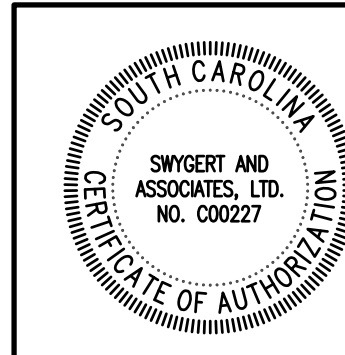
N:\PROJECTS\15555\DRAWINGS\HVAC\15555-M1.dwg



1
M1

SITE PLAN @ BLOSSOM STREET

SCALE: 1" = 10'



Swygert & Associates
CONSULTING ENGINEERS
DBA Swygert & Assoc., Ltd. Telephone: (803) 791-9300
Post Office Box 11886 Fax: (803) 791-9830
Columbia, S.C. 29211 mail@swygert-associates.com

SHEET:

M1

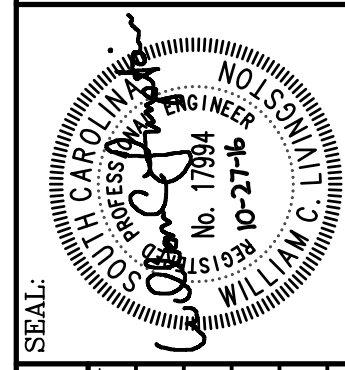
OF

SHEET IN SET:

OF

PROJECT TITLE: **FUEL STORAGE TANK INSTALLATION
WEST ENERGY PLANT**

University of South Carolina



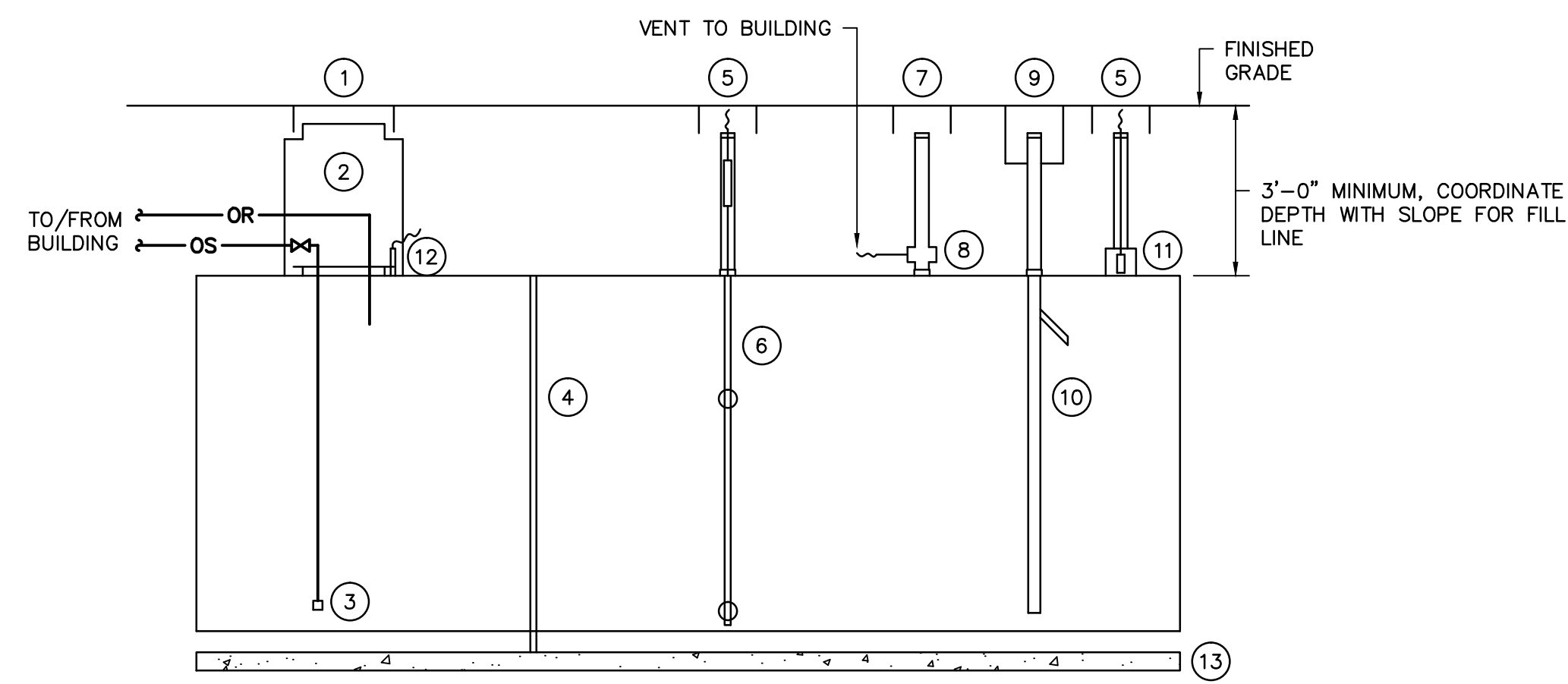
BUILDING:	DRAWING:	DATE:	DRAWN BY:	DEM DATE:	CHECKED BY:	
					WCL	DEM
REV. 1	DESCRIPTION	02SEP16	ADDENDUM NO. 1	10/27/16	WCL	DEM

CAMPUS PLANNING
AND CONSTRUCTION
COLUMBIA, SC 29208

N:\PROJECTS\15555\DRAWINGS\HVAC\15555-M3.dwg

TANK SCHEDULE	
TAG	MODEL
T-2	30,000 GALLON TANK
T-3	30,000 GALLON TANK
T-4	30,000 GALLON TANK

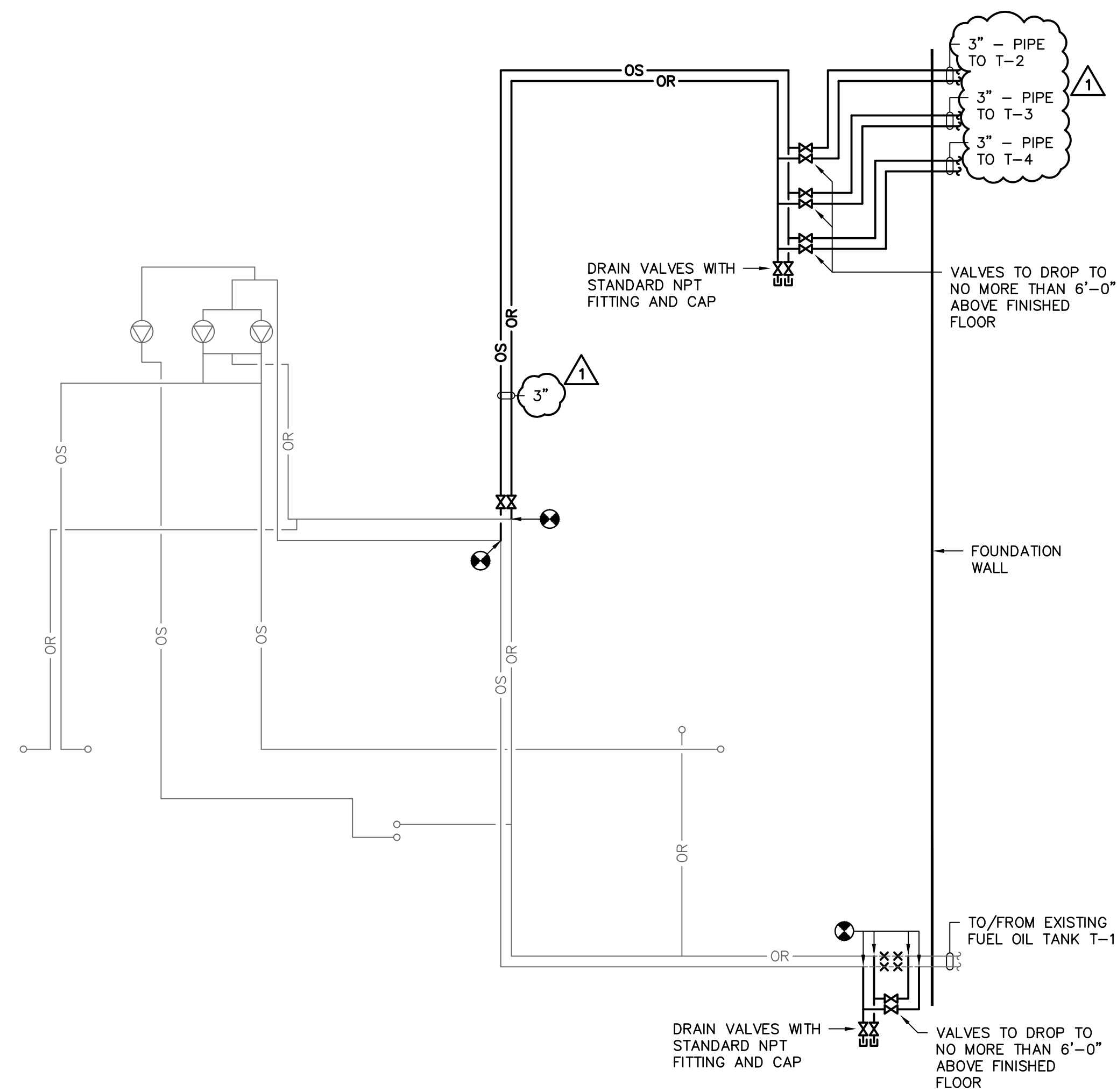
- ### GENERAL NOTES
- VISIT SITE PRIOR TO BIDDING. THIS CONTRACTOR SHALL DETERMINE DIFFICULTY OF INSTALLATION AND REFLECT THIS IN HIS BIDDING.
 - DO NOT SCALE DRAWINGS. THIS CONTRACTOR SHALL VERIFY ALL EXISTING ITEMS AND LOCATIONS IN THE FIELD.
 - ALL PIPING LOCATIONS SHALL BE COORDINATED WITH WORK UNDER 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.



- | | | |
|--------------------------|-----------------------------|----------------------------------|
| ① 39" MANHOLE COVER | ⑥ FEEDER ROOT PROBE | ⑪ FEEDER ROOT HYDROSTATIC SENSOR |
| ② 42" TURBINE ENCLOSURE | ⑦ 12" MANHOLE COVER | ⑫ FEEDER ROOT PIPING SUMP SENSOR |
| ③ FLOOR VALVE | ⑧ EXTRACTOR VALVE | ⑬ DEADMAN ANCHOR BEAM (TYPICAL) |
| ④ ANCHOR STRAP (TYPICAL) | ⑨ FILL SPILL CONTAINER | |
| ⑤ 18" MANHOLE COVER | ⑩ OVERFILL PREVENTION VALVE | |

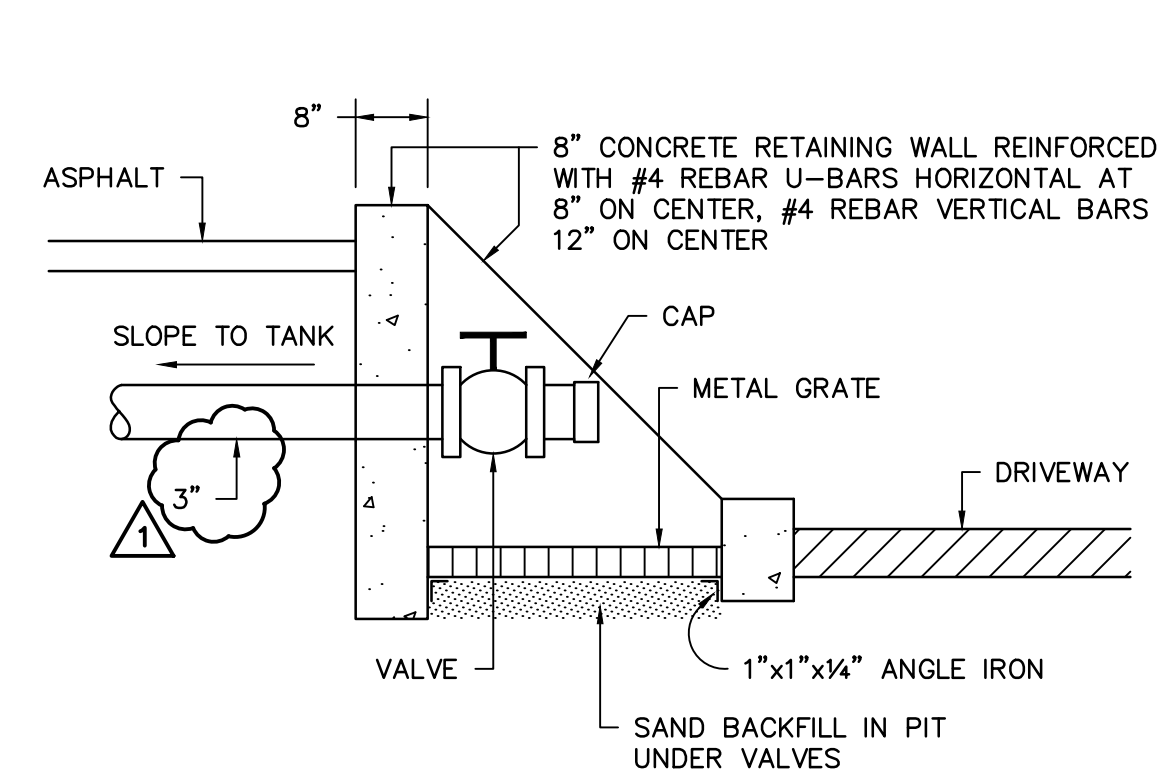
FUEL OIL TANK DETAIL

NO SCALE



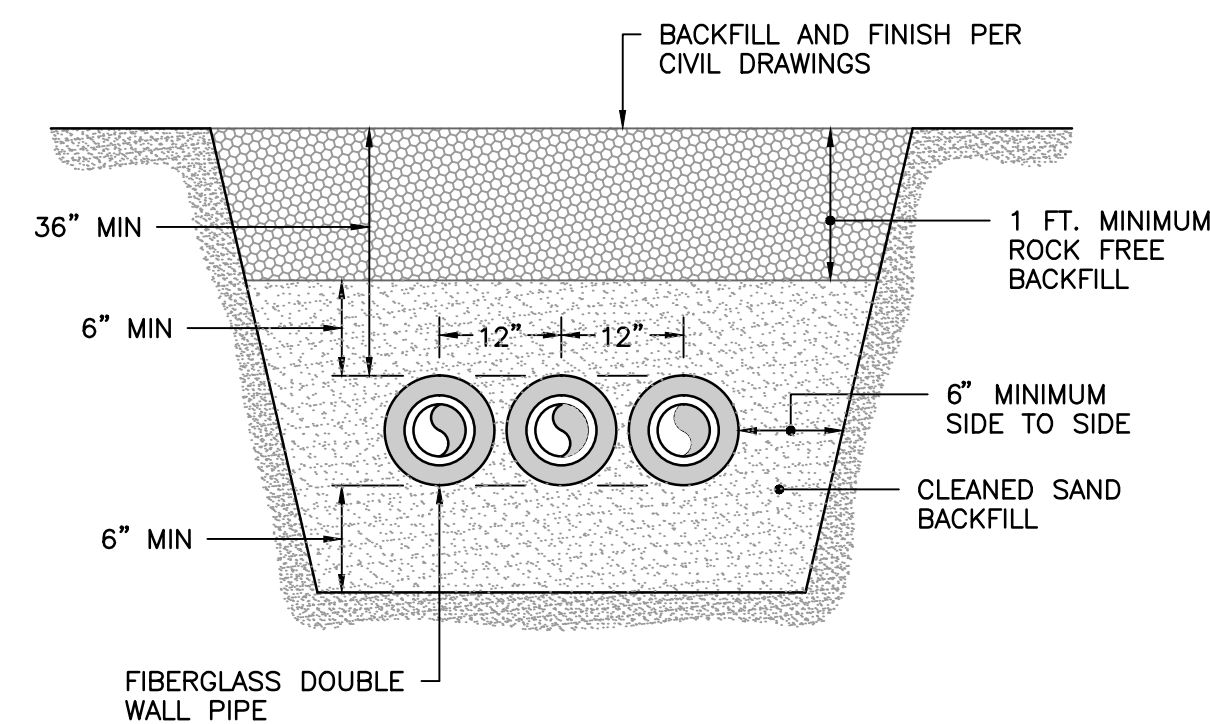
PIPING DIAGRAM

NO SCALE



FILL DETAIL

NO SCALE

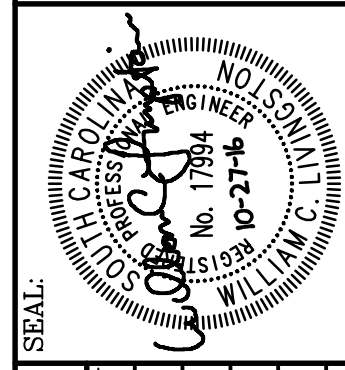


BACKFILL DETAIL

NO SCALE

LEGEND

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

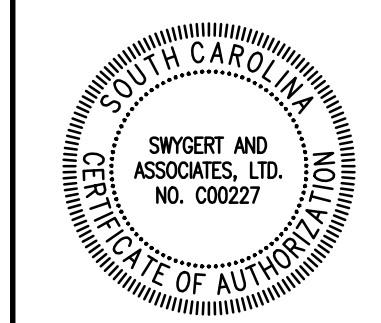


BUILDING:	DATE:	DATE:	DATE:
15555	02/SEP/16	10/27/16	
REV. 1	DESCRIPTION	WCL	DEM
	ADDENDUM NO. 1		

PROJECT TITLE: FUEL STORAGE TANK INSTALLATION
WEST ENERGY PLANT

CAMPUS PLANNING
AND CONSTRUCTION
COLUMBIA, SC 29208

University of South Carolina



Swygert & Associates
CONSULTING ENGINEERS
DBA Swygert & Assoc., Ltd. Telephone: (803) 791-9300
Post Office Box 11686 Faxsimile: (803) 791-9830
Columbia, S.C. 29211 mail@swygert-associates.com

SHEET: M3
OF
SHEET IN SET: OF