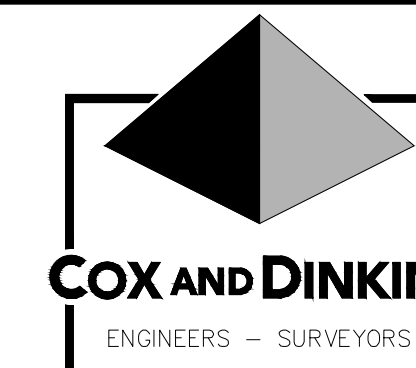


NOTE:  
IT IS CONTRACTORS RESPONSIBILITY TO VERIFY THAT  
THEY AND THEIR SUBCONTRACTORS HAVE THE  
CORRECT/MOST UP-TO-DATE PLANS AVAILABLE.



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

CAMPUS PLANNING  
AND CONSTRUCTION  
COLUMBIA, SC 29208



UNIVERSITY OF  
SOUTH CAROLINA

# SITE CONSTRUCTION DRAWINGS FOR DM12 COKER EMERGENCY GENERATOR REPLACEMENT H27-6100

PREPARED FOR:

UNIVERSITY OF SOUTH CAROLINA

FACILITIES DESIGN AND CONSTRUCTION

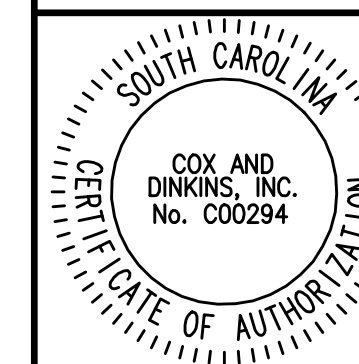
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COLUMBIA, SOUTH CAROLINA 29208

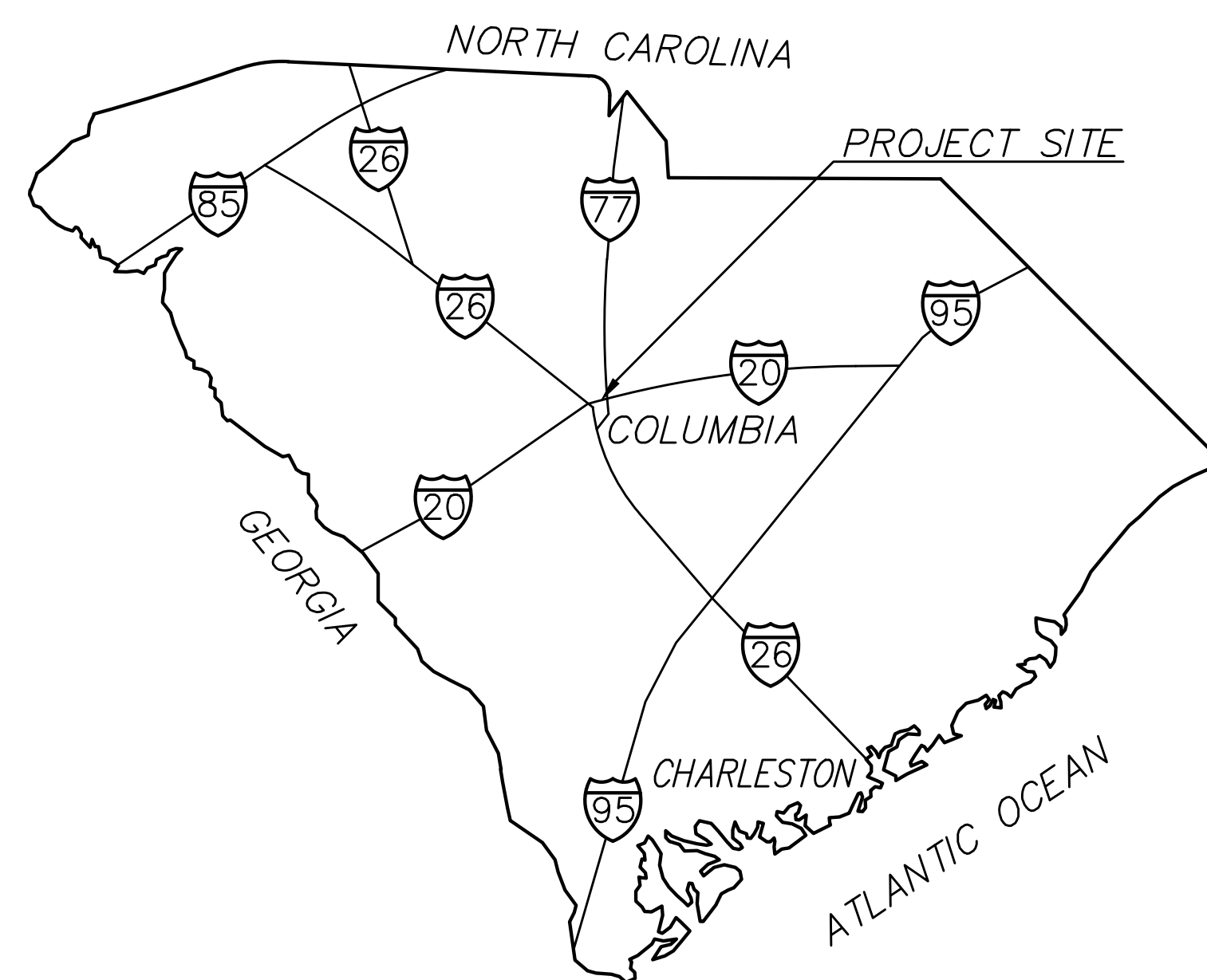
803.777.3126

## SHEET INDEX:

C0	COVER AND INDEX SHEET
C1	EXISTING CONDITIONS PLAN
C2	SITE PLAN AND DETAILS
E1	ELECTRICAL SITE PLAN
E2	ELECTRICAL SINGLE-LINE DIAGRAM
S1	FOUNDATION PLANS AND DETAILS



BUILDING:	DRAWING:	DATE:	DRAWN BY:	CHECKED BY:	ORIG. BY	
					DATE	BY
REV.						



STATE OF SOUTH CAROLINA MAP

NOT TO SCALE



LOCATION MAP  
(1"=1000')

**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 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.

PROJECT TITLE: COKER LIFE SCIENCES GENERATOR PAD  
RICHLAND COUNTY, CITY OF COLUMBIA, SC

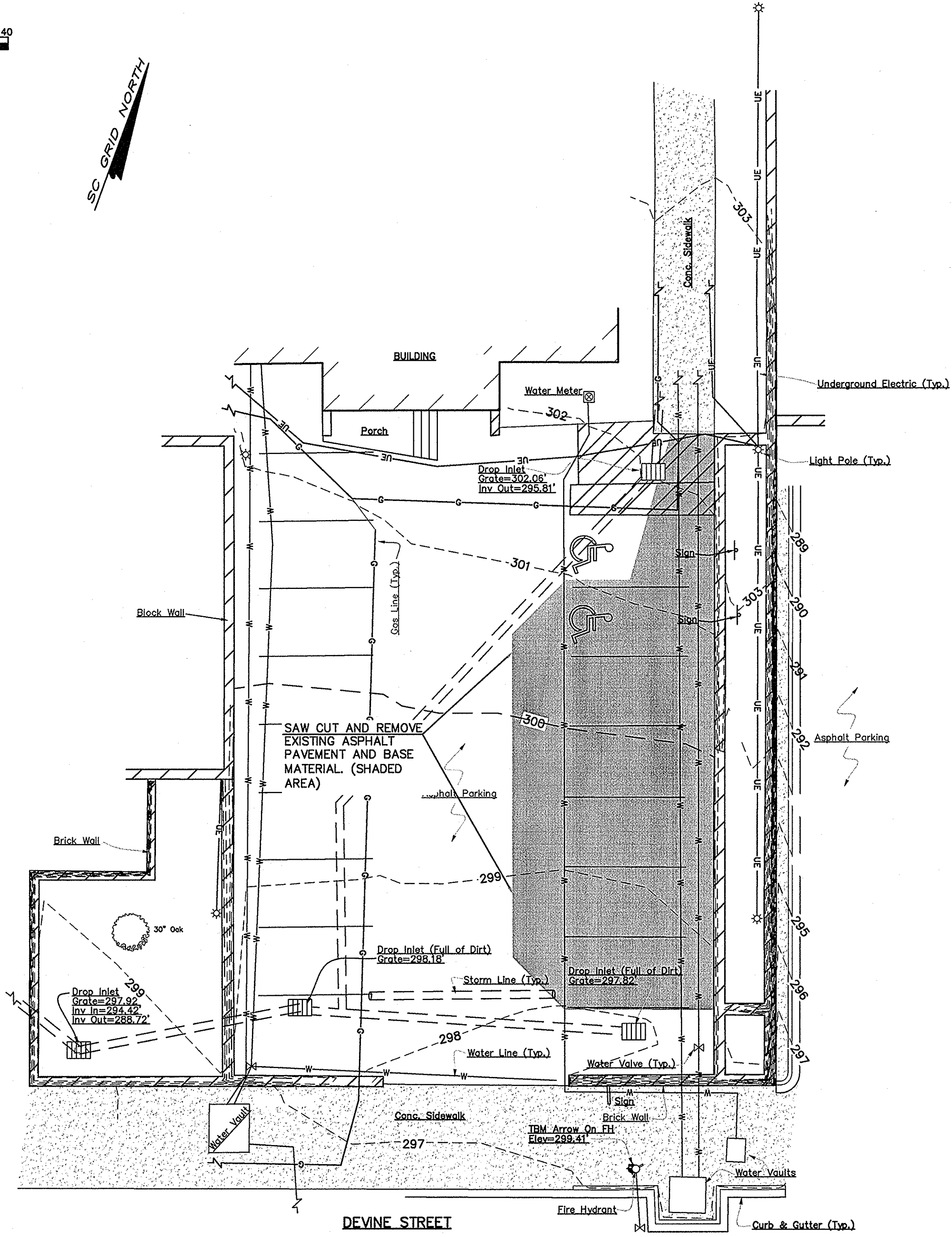
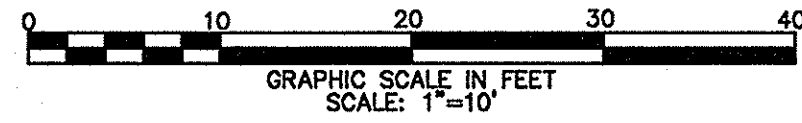
COVER  
University of South Carolina

SHEET:

C0

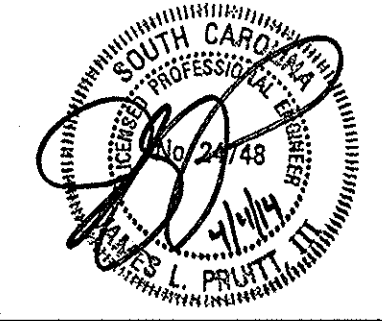
The Palmetto Utility Protection Service, Inc.  
800 South State Street, Suite 100, Columbia, South Carolina 29201-0601 (803) 939-1117

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



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

PROJECT: 1745



REGISTERED PROFESSIONAL ENGINEER  
No. 24748

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

Z84 pg. 70-72

CAMPUS PLANNING  
AND CONSTRUCTION  
COLUMBIA, SC 29208



CHECKED BY:	DATE:	DESCRIPTION:	DATE:	DRAWN BY:	DATE:	DESCRIPTION:	BUILDING:	
							REV.	REV.
				CSM	02/25/2014			

PROJECT TITLE: COKER LIFE SCIENCES GENERATOR PAD  
RICHLAND COUNTY, CITY OF COLUMBIA, SC

EXISTING CONDITIONS  
University of South Carolina



The Palmetto Utility Protection Service, Inc.  
809 Douthett Square Blvd., Suite 202 Columbia, South Carolina 29204 (803) 659-1117

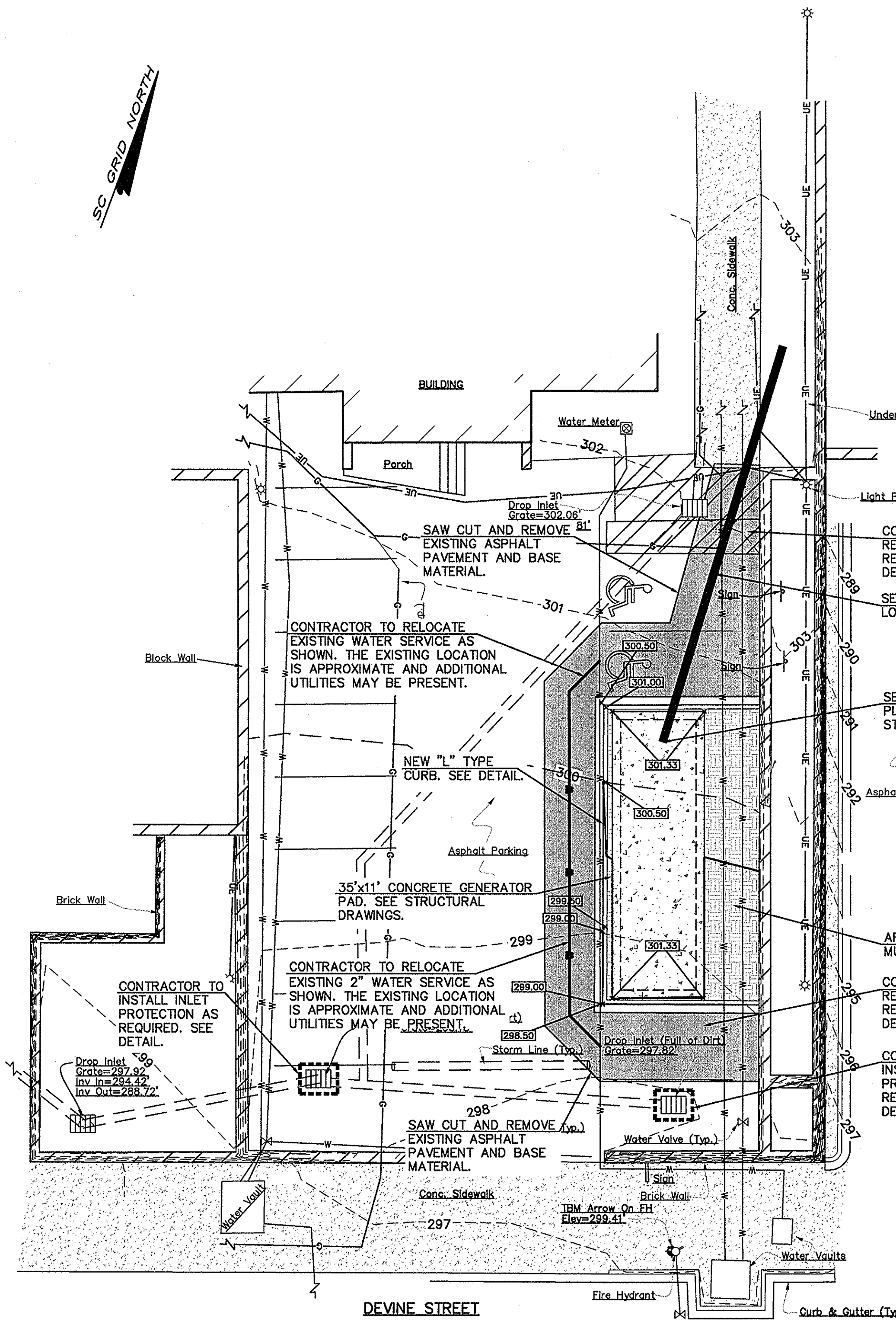
**South Carolina 811**  
Call 811 Before you Dig

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

C1

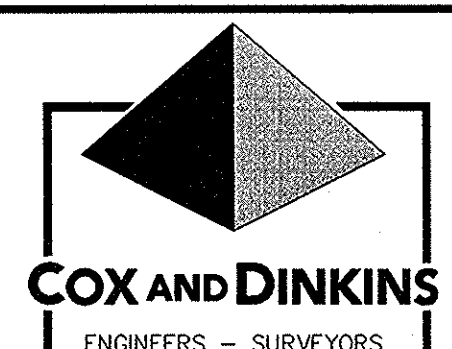
**SEDIMENT AND EROSION CONTROL NOTES**

- 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 IN 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(S) FROM CONSTRUCTION AREAS 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 OUTFALLS.
- 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 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 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 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. 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 AND MAINTAIN DAILY PRECIPITATION RECORDS IN THE SWPPP MANUAL PER SCDHEC 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, EROSION CONTROL 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 WINDS, 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.



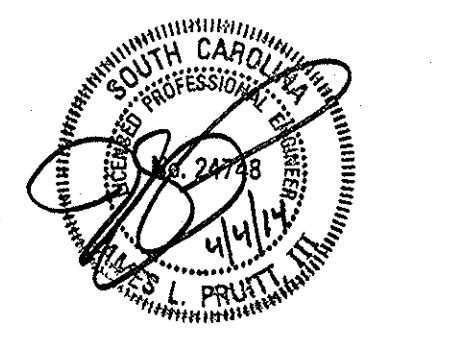
**GENERAL NOTES:**

- 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.



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

PROJECT: 1745



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

Z84 pg. 70-72

CAMPUS PLANNING AND CONSTRUCTION COLUMBIA, SC 29208

SOUTH CAROLINA REGISTERED PROFESSIONAL ENGINEER

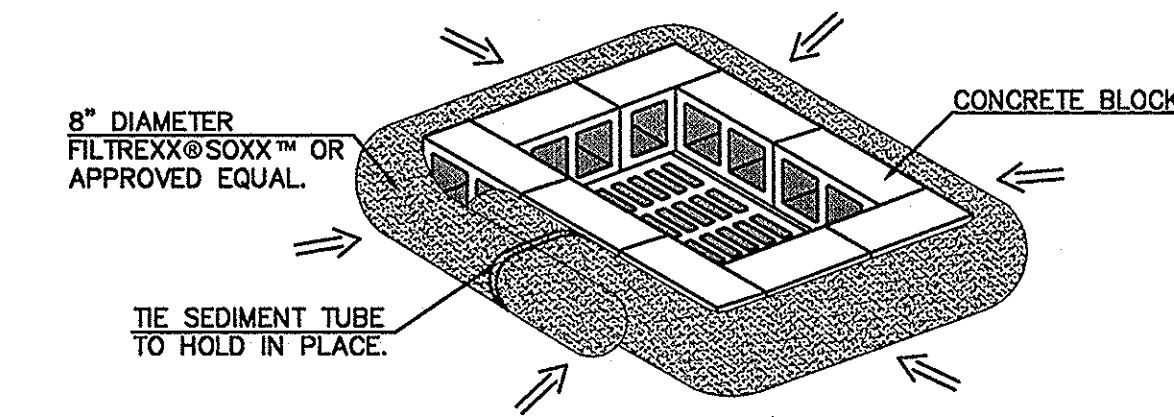
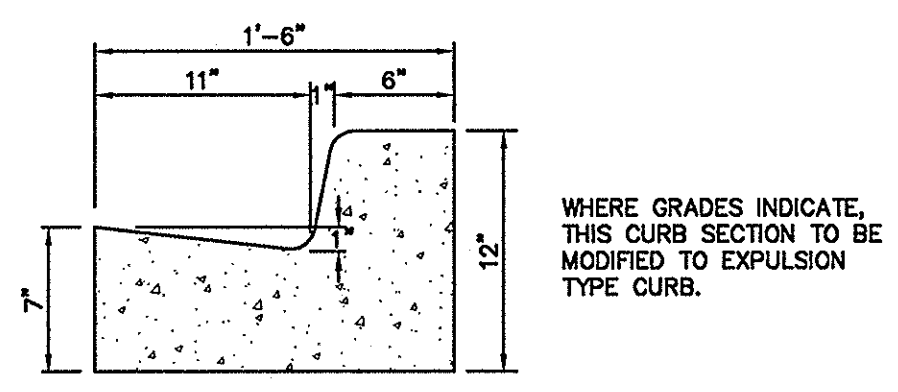
COX AND DINKINS, INC. No. 000294

SOUTH CAROLINA REGISTERED PROFESSIONAL ENGINEER

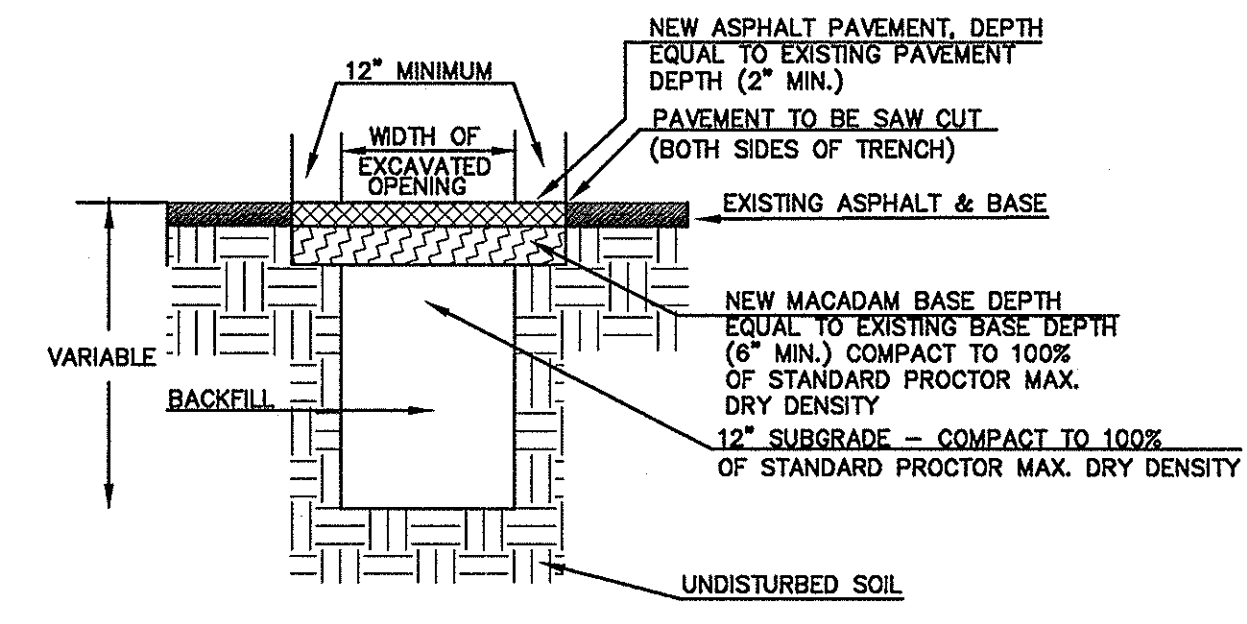
COKER LIFE SCIENCES GENERATOR PAD RICHLAND COUNTY, CITY OF COLUMBIA, SC

SITE PLAN University of South Carolina

PROJECT TITLE: SHEET: C2



**MAINTENANCE:**  
Inspect every 7 calendar days and within 24-hours after each rainfall event that produces 1/2 inches or more of precipitation. Remove sediment when it reaches 1/2 the height of the blocks or sediment tube. If a sump is used, remove sediment when it fills 1/2 the depth of the hole. If the stone becomes clogged with sediment, the stones must be pulled away from the inlet and cleaned or replaced. Since cleaning of gravel at a construction site may be difficult, an alternative approach would be to use the clogged stone as fill and put fresh stone around the inlet. Remove inlet protection structures after the disturbed areas are permanently stabilized. Remove all construction material and sediment, and dispose of them properly. Grade the disturbed area to the elevation of the drop inlet structure crest. Stabilize all bare areas immediately.



The Palmetto Utility Protection Service, Inc.  
810 Dead Square Blvd., Suite 307 Columbia, South Carolina 29101 (803) 939-1177

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

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

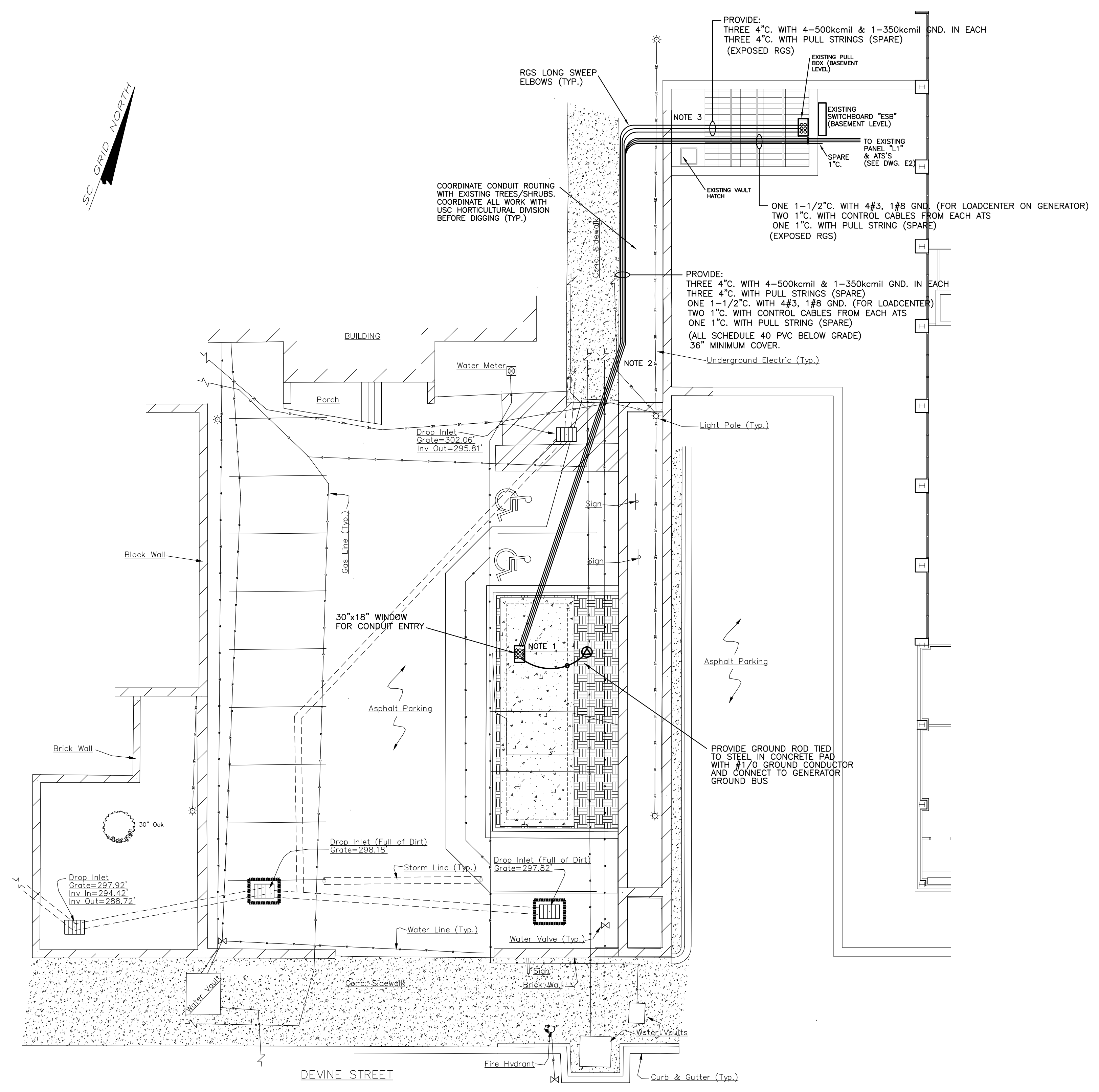
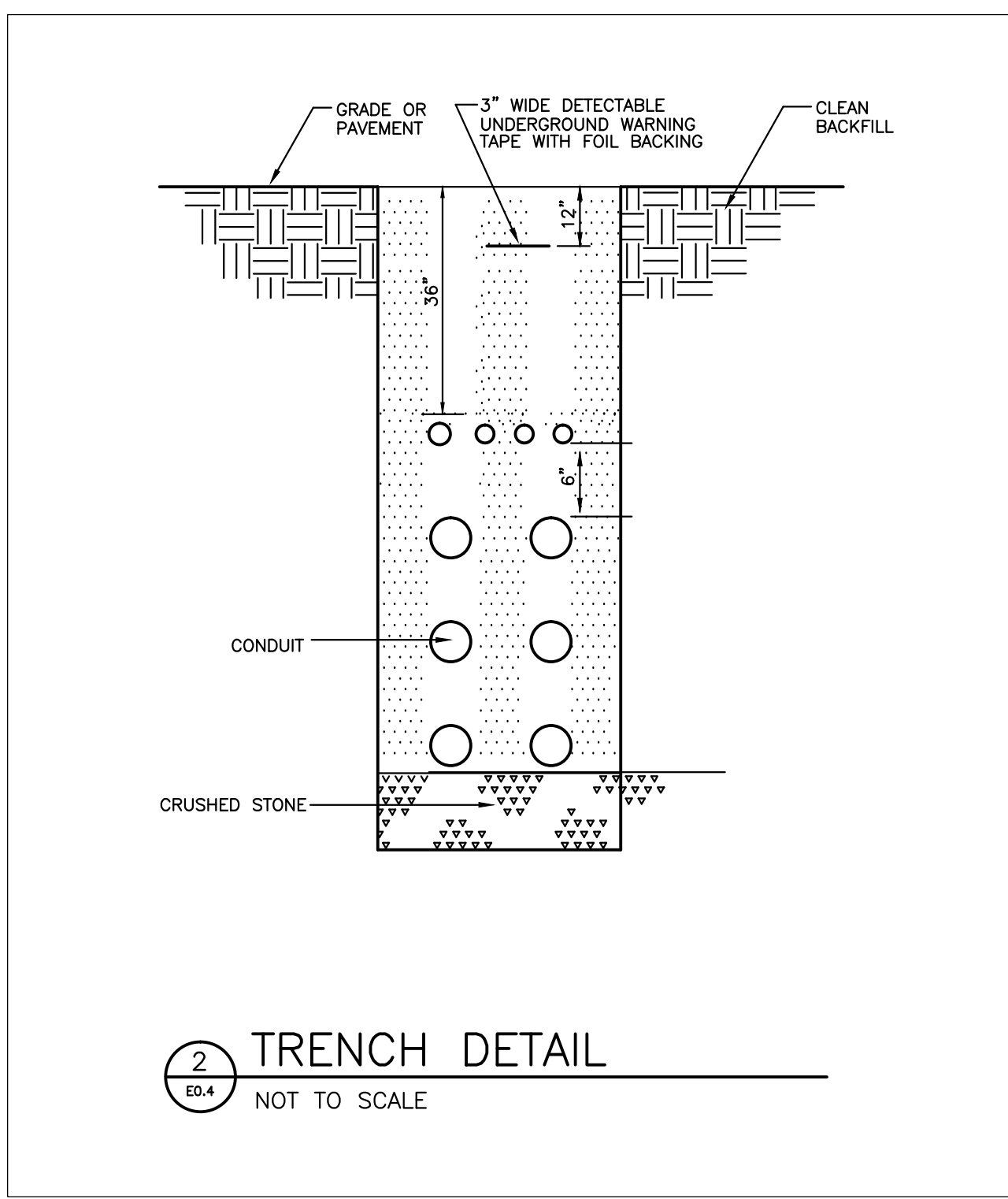
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- CONTRACTOR TO CONTACT CITY OF COLUMBIA ENGINEERING PRIOR TO BEGINNING CONSTRUCTION.

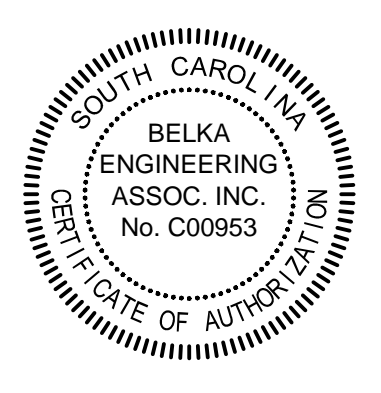
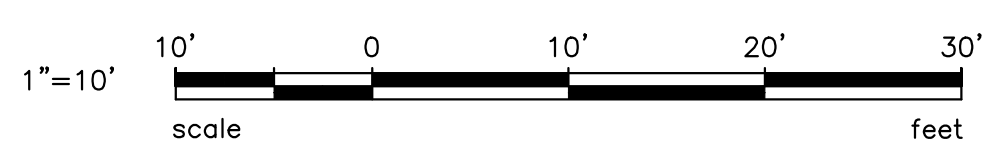


**ELECTRICAL SITE NOTES**

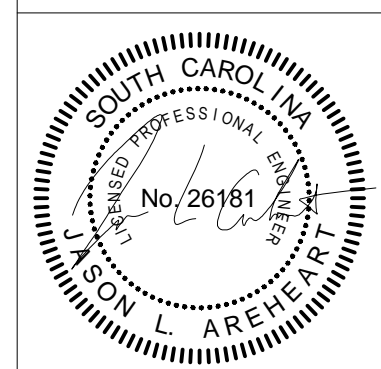
- PROVIDE NEW CONDUITS AND CONDUCTORS AS INDICATED ON PLAN FOR THE CONNECTION OF A 800KW DIESEL GENERATOR. GENERATOR WITH FUEL TANK AND WEATHERPROOF ENCLOSURE SHALL BE FURNISHED BY USC (PRESENT ON SITE). COORDINATE CONDUIT INSTALLATION WITH PAD CONDUIT WINDOW AND STRUCTURAL DRAWINGS IN THIS SET. THE DISCONNECTION OF AN EXISTING TEMPORARY 1000KVA MOBILE GENERATOR SHALL BE PERFORMED BY USC ELECTRICIANS. THE NEW CONNECTION OF THE OWNER-FURNISHED 800KW GENERATOR SHALL BE PROVIDED BY THE ELECTRICAL CONTRACTOR. COORDINATE DISCONNECTION/CONNECTION WITH USC TO MINIMIZE TIME THAT THE BUILDING IS WITHOUT EMERGENCY POWER BACKUP. EXISTING PULL BOX AT GRADE LEVEL (FIRST FLOOR LEVEL) ABOVE AIRWAY VAULT ALONG WITH ASSOCIATED CONDUITS SHALL BE REMOVED BY THE ELECTRICAL CONTRACTOR AFTER DISCONNECTION OF MOBILE 1000KW GENERATOR.
- PROVIDE UNDERGROUND ROUTING OF CONDUITS FROM PAD LOCATION THROUGH UTILITY AIRWAY VAULT TO BASEMENT LEVEL ELECTRICAL ROOM.
- SUPPORT NEW RGS CONDUIT ON EXISTING STRUCTURE OF AIRWAY VAULT AND COORDINATE CONDUIT ROUTING WITH EXISTING ACCESS DOOR AND EXISTING MECHANICAL PIPING. 4" CONDUITS SHALL TERMINATE IN EXISTING PULL BOX AT BASEMENT LEVEL.



**1** ELECTRICAL SITE PLAN  
 SCALE: 1" = 10'-0"



PROJECT TITLE:	COKER LIFE SCIENCES GENERATOR PAD RICHLAND COUNTY, CITY OF COLUMBIA, SC
SHEET:	E1
1 OF 2	
SHEET IN SET:	1 OF 2
REV.	
BUILDING:	100
DRAWING:	
DATE:	04/04/2014
DRAWN BY:	CES
CHECKED BY:	JSA
ORIG. BY:	
DATE:	
DESCRIPTION:	

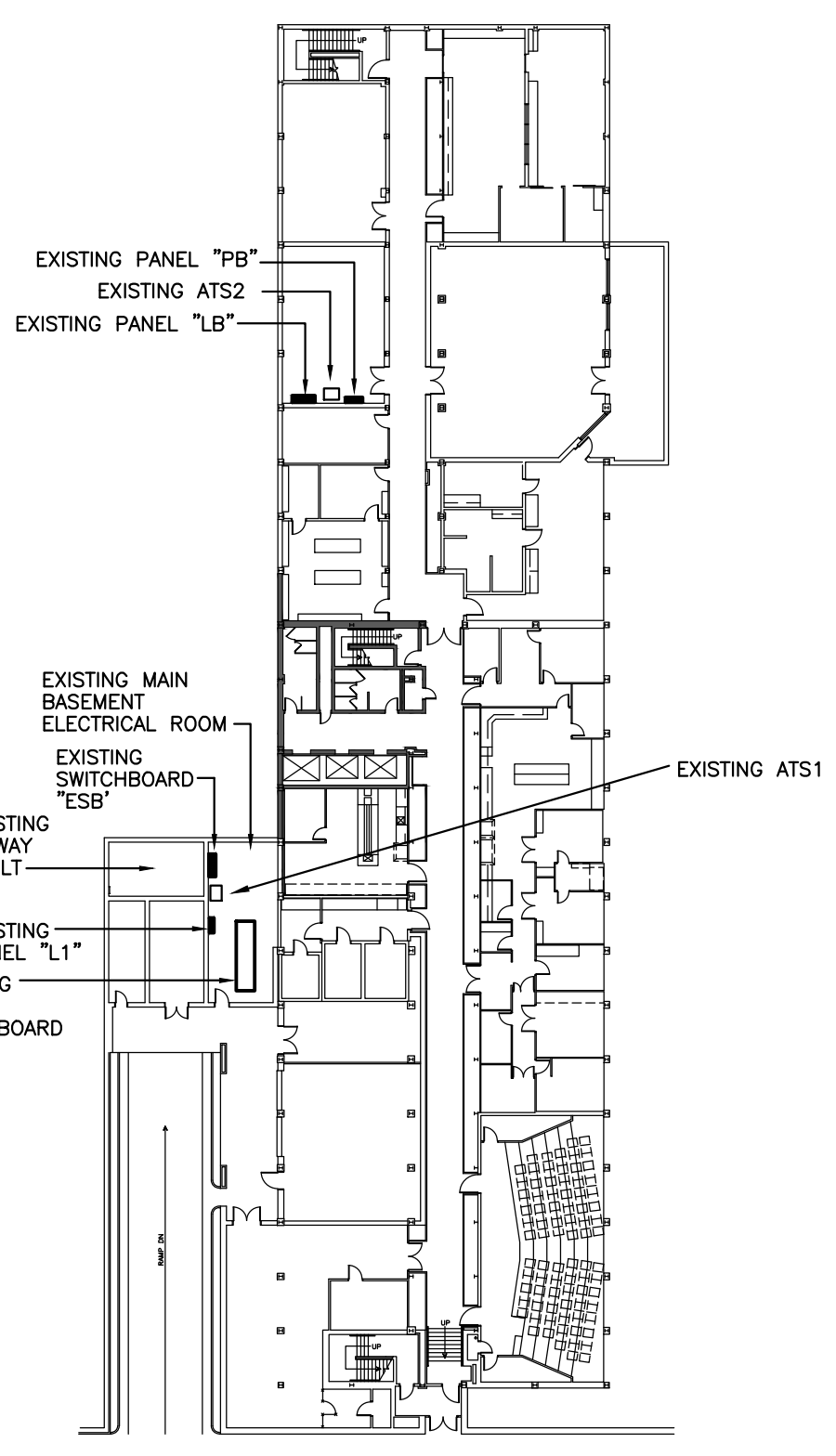


CHECKED BY:	JSA
ORIG. BY:	DR
DRAWN BY:	CES
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DESCRIPTION:	
BUILDING:	100
REV.	

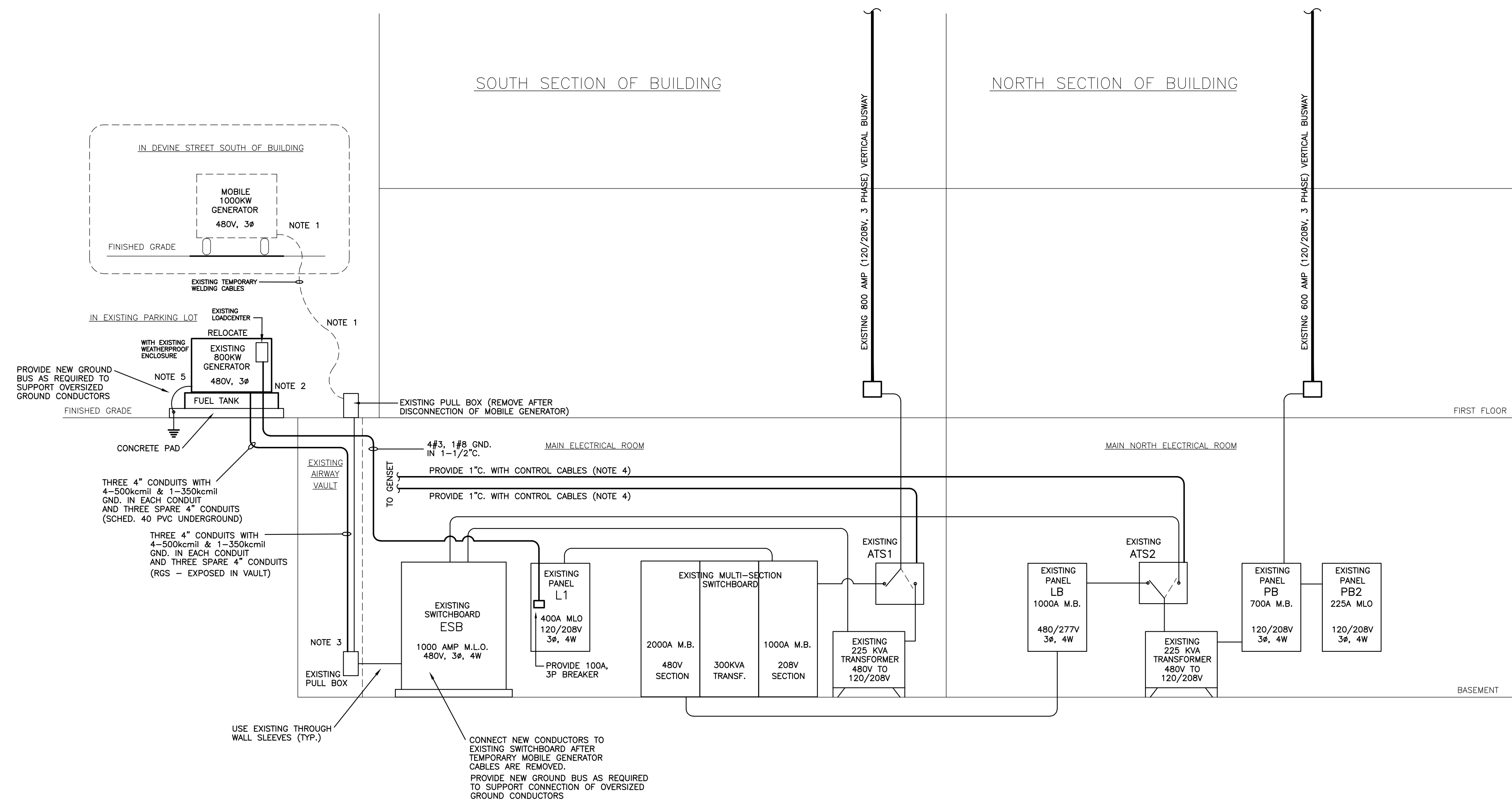
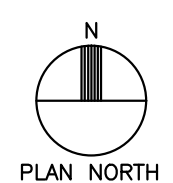
PROJECT TITLE: COKER LIFE SCIENCES GENERATOR PAD  
RICHLAND COUNTY, CITY OF COLUMBIA, SC

ELECTRICAL SINGLE-LINE DIAGRAM  
University of South Carolina

SHEET: E2  
2 OF 2  
SHEET IN SET: 1 OF 2

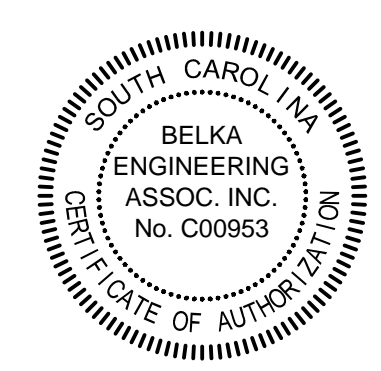
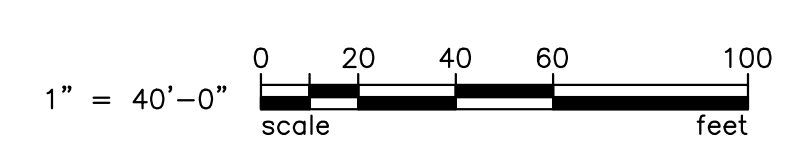


3 KEY PLAN - BASEMENT  
E2 APPROX. SCALE: 1" = 40'-0"



1 POWER SINGLE-LINE DIAGRAM  
E2 NOT TO SCALE

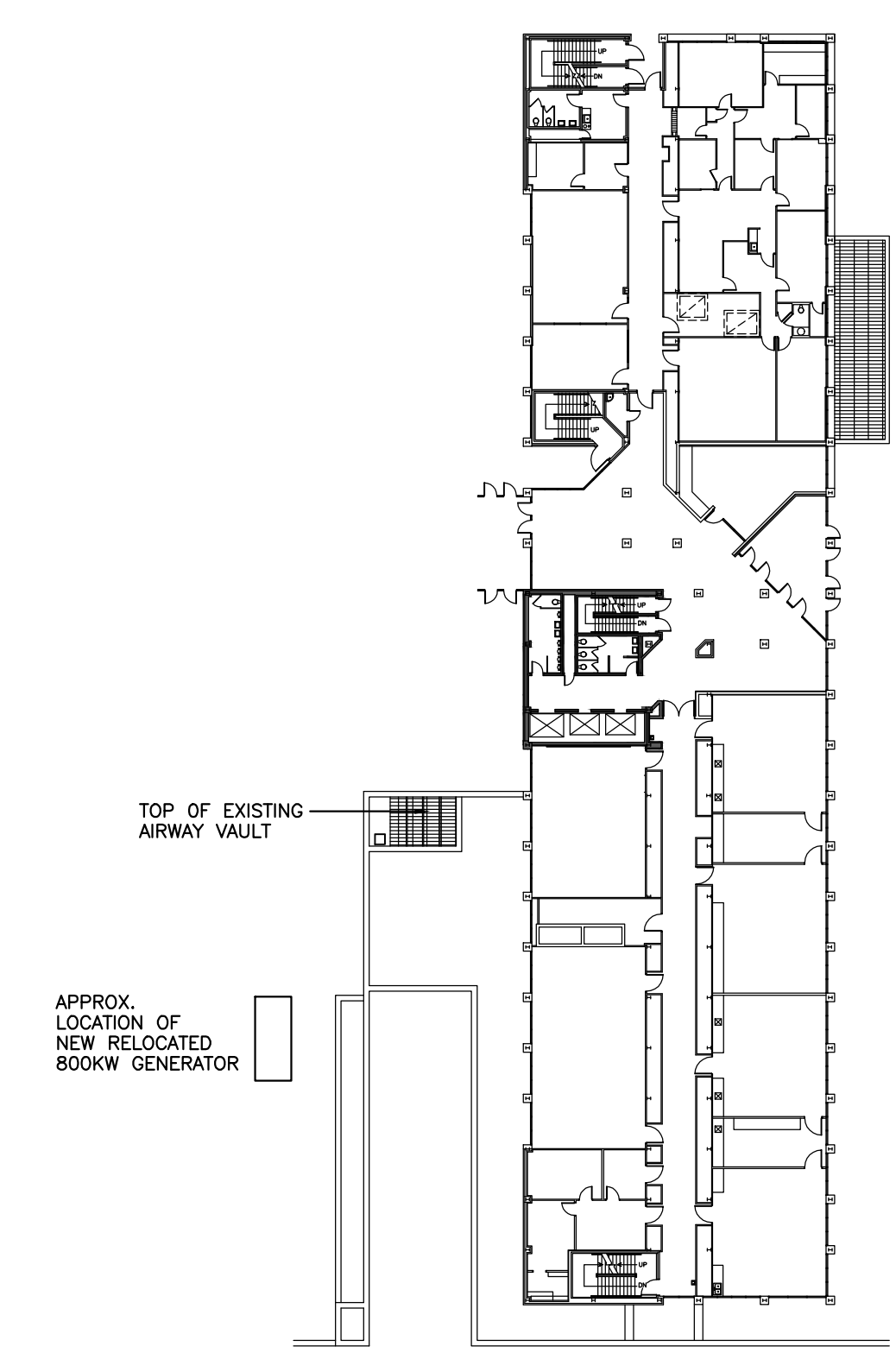
- ELECTRICAL NOTES
1. USC ELECTRICIANS SHALL DISCONNECT 1000KW MOBILE GENERATOR. THE ELECTRICAL CONTRACTOR SHALL STAGE HIS WORK TO MINIMIZE TIME BUILDING IS WITHOUT EMERGENCY POWER BACKUP. REMOVE EXISTING PULL BOX AT GRADE LEVEL AND ASSOCIATED CONDUITS AFTER DISCONNECTION OF 1000KW.
  2. PROVIDE INSTALLATION AND CONNECTION OF A USC-FURNISHED 800KW DIESEL GENERATOR. PROVIDE CONDUCTORS/CONDUITS BETWEEN GENERATOR AND EXISTING SWITCHBOARD "ESB". PROVIDE CONDUCTORS/CONDUIT BETWEEN GENERATOR LOADCENTER AND EXISTING PANEL "L1."
  3. PROVIDE NEW CONDUITS TO EXISTING BASEMENT LEVEL PULL BOX IN AIRWAY VAULT AND PROVIDE CONDUCTORS INTO EXISTING SWITCHBOARD "ESB" (MOUNTED BACK-TO-BACK WITH EXISTING PULL BOX).
  4. PROVIDE CONTROL CONDUCTORS IN 1" CONDUITS PER GENERATOR MANUFACTURER'S SPECS FROM GENERATOR TO ATS'S. SEE BASEMENT KEY PLAN ON THIS DRAWING FOR ATS LOCATIONS.
  5. PROVIDE COMPLETE RE-COMMISSIONING OF GENERATOR BY MANUFACTURER'S CERTIFIED TECHNICIAN.



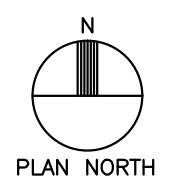
US21305

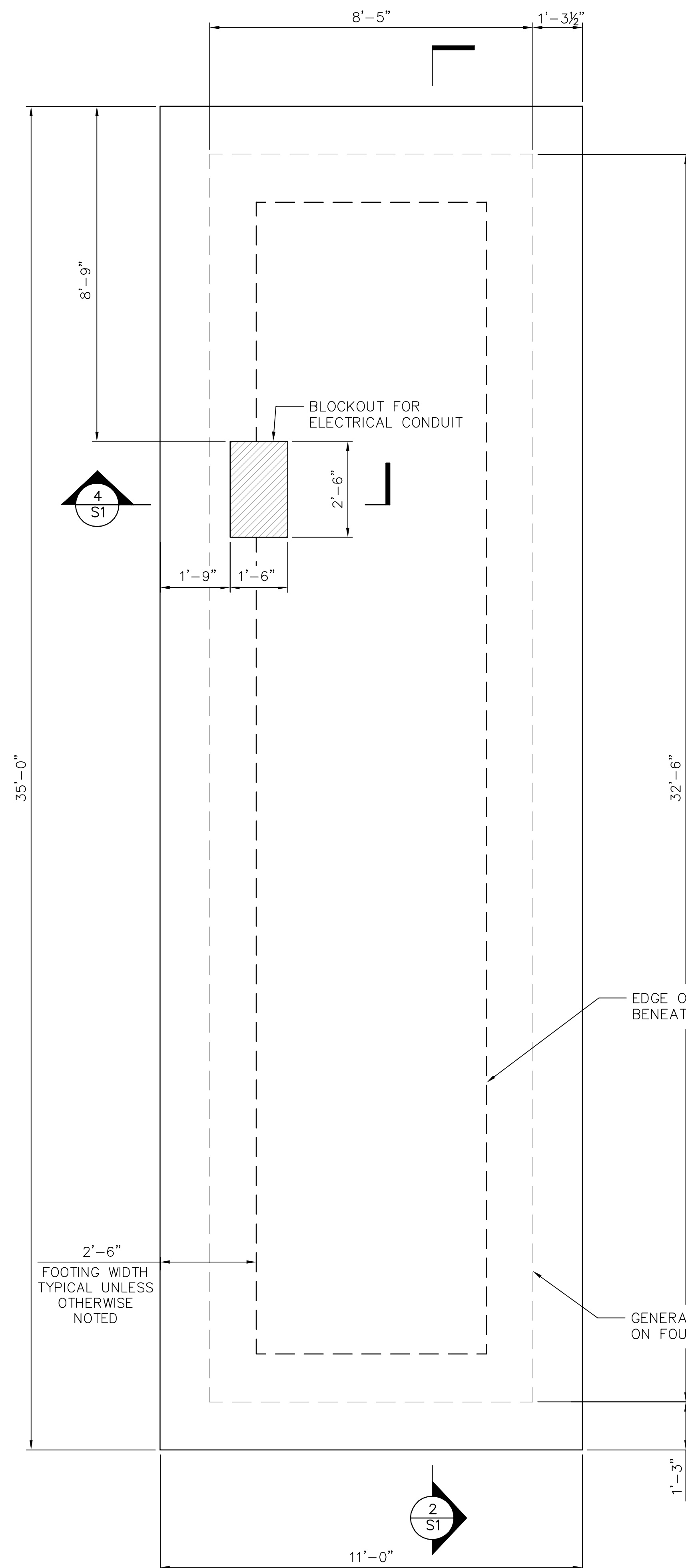
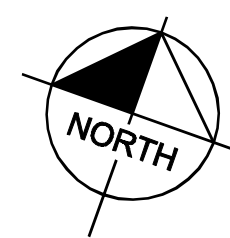
**BEA** BELKA ENGINEERING ASSOCIATES, INC.

7 CLUSTERS COURT, SUITE 201  
COLUMBIA, SOUTH CAROLINA 29210  
(803) 731-0650 fax (803) 731-2880  
EMAIL: cestringfield@bellsouth.net

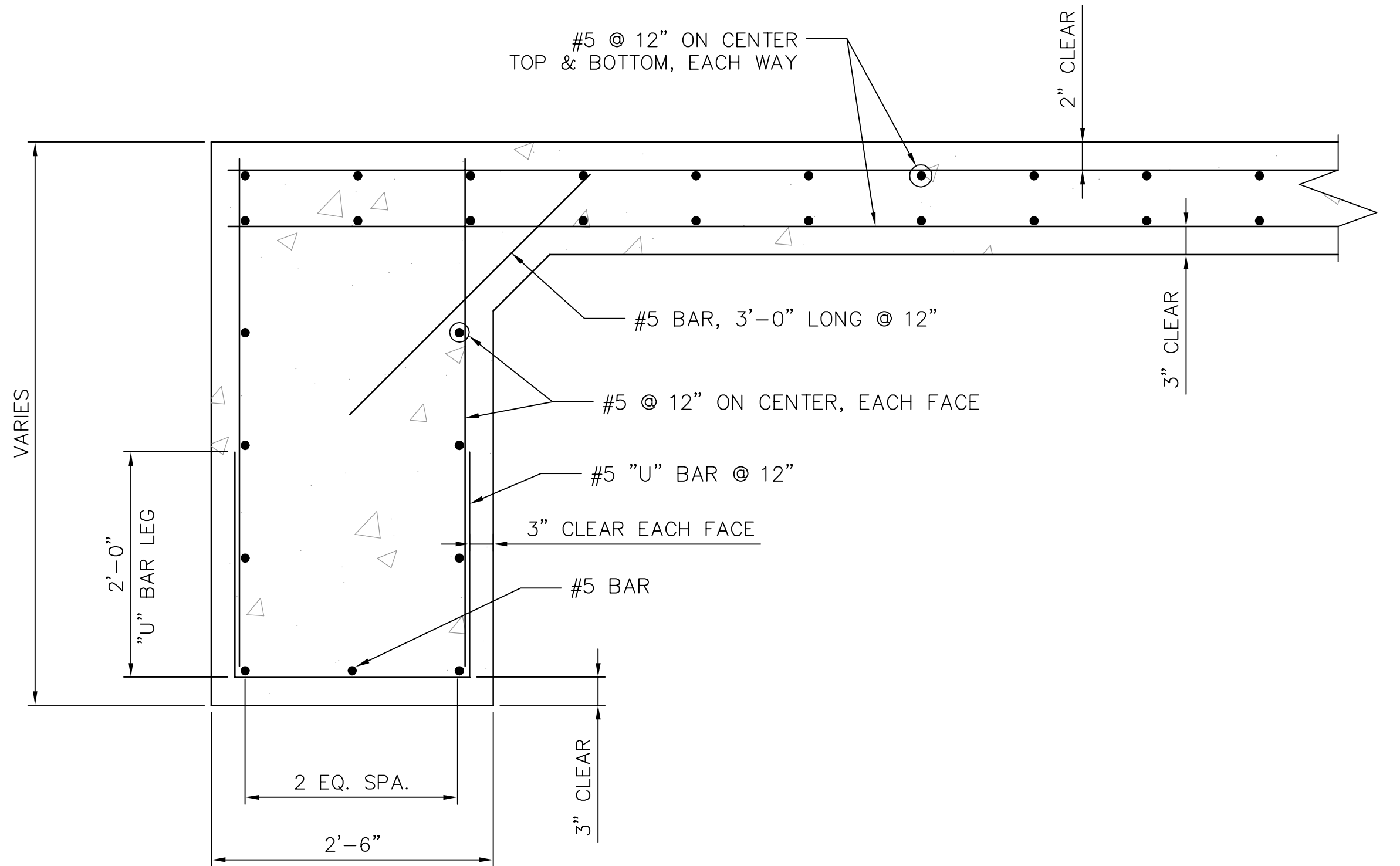


2 KEY PLAN - FIRST FLOOR  
E2 APPROX. SCALE: 1" = 40'-0"

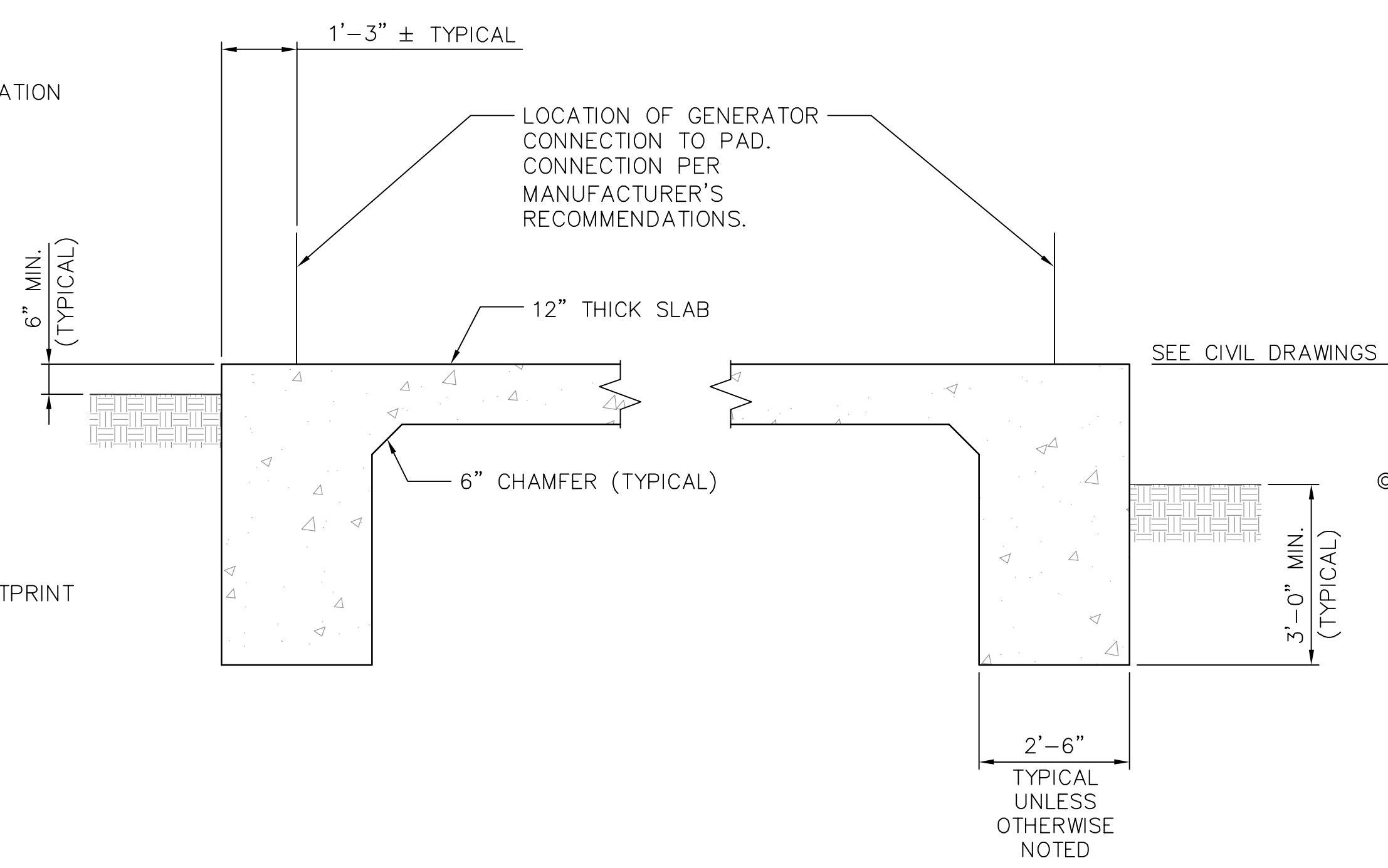




1 FOUNDATION PLAN  
SCALE: NTS



3 TYPICAL FOUNDATION REINFORCEMENT  
SCALE: NTS

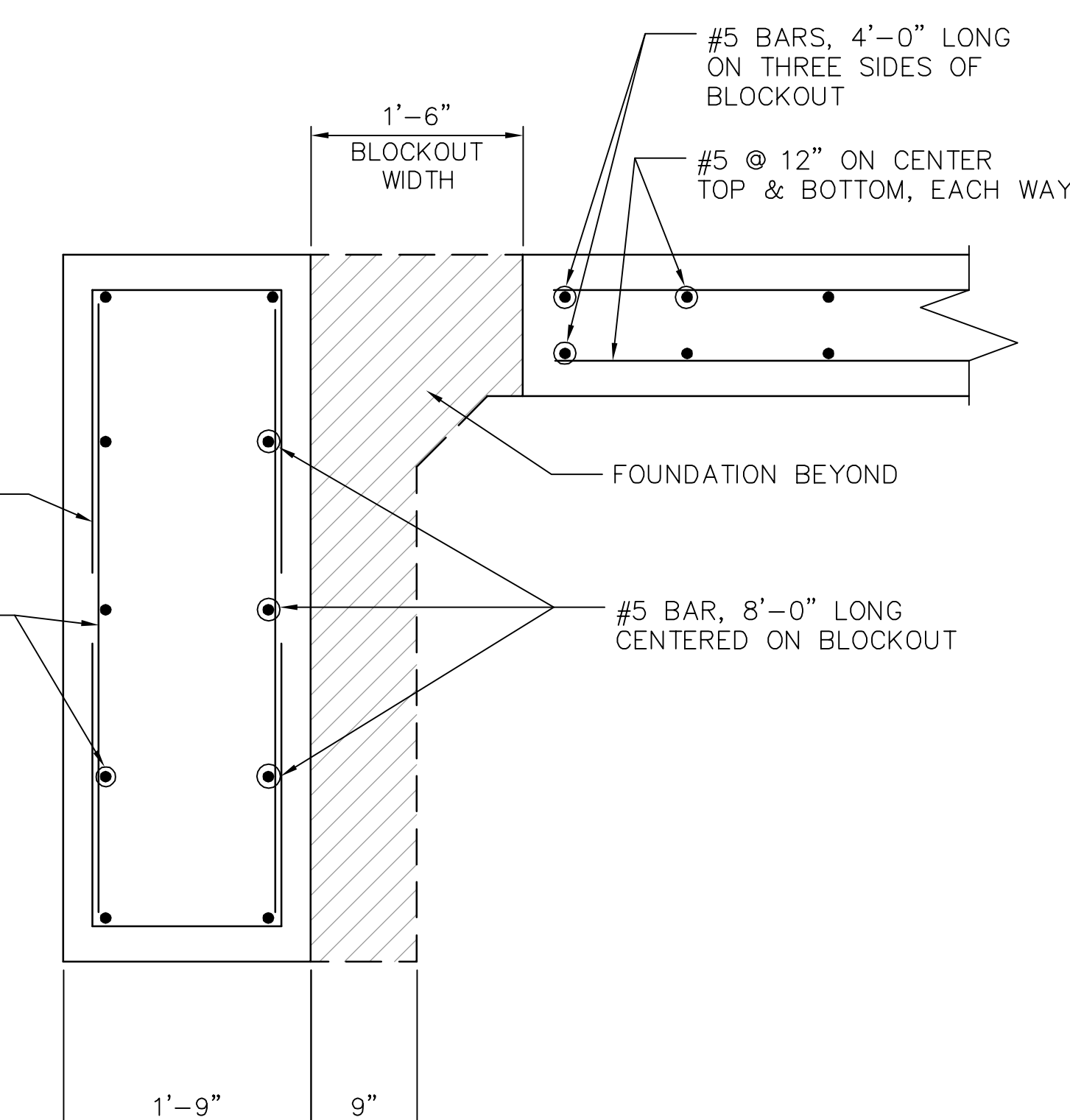


2 SECTION THROUGH FOUNDATION  
SCALE: NTS

NOTE: FOR FOUNDATION REINFORCEMENT, SEE 3

### FOUNDATION NOTES

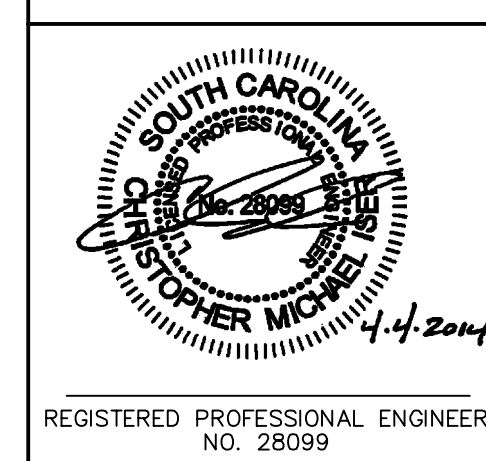
- GENERAL
  - FOUNDATION DESIGN BASED ON 2012 SOUTH CAROLINA BUILDING CODE.
  - THE PLANS ARE BASED ON THE GEOTECHNICAL ENGINEER REPORT "GEOTECHNICAL ENGINEERING REPORT, COKER BUILDING - EMERGENCY GENERATOR RELOCATION, UNIVERSITY OF SOUTH CAROLINA, 1215 DEVINE ST., COLUMBIA, SOUTH CAROLINA", TERRACON PROJECT NUMBER 73145012, DATED MARCH 27, 2014, ISSUED BY TERRACON.
  - FOUNDATIONS ARE DESIGNED FOR A SOIL BEARING PRESSURE OF 3,000 PSF BASED ON THE PROVIDED GEOTECHNICAL RECOMMENDATIONS. CONTRACTOR SHALL VERIFY SOIL CONDITIONS PRIOR TO CONSTRUCTION. IF UNSUITABLE FILL OR SOFT SOILS ARE ENCOUNTERED, EXISTING SOIL SHALL BE UNDERCUT AND REPLACED WITH ENGINEERED FILL.
  - REFER TO PLAN AND DETAILS FOR DIMENSIONS OF FOOTINGS AND VERIFY DIMENSIONS WITH SITE DRAWINGS PRIOR TO BEGINNING WORK. NOTIFY THE ENGINEER IMMEDIATELY IF ANY DISCREPANCIES ARE FOUND.
  - REFER TO CIVIL DRAWINGS FOR UTILITIES AND LOCATION OF FOUNDATION. CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING, PROTECTING, AND RELOCATING AS REQUIRED ALL SERVICE AND UTILITY LINES IN VICINITY OF THE WORK SITE. ALL EXCAVATIONS NEAR THESE LINES TO BE CARRIED OUT WITH EXTREME CAUTION.
  - PERIMETER FOOTING FOR THE FOUNDATION SHALL BE A MINIMUM DEPTH OF 36" BELOW FINISH GRADE.
  - BOTTOM OF PERIMETER FOOTING SHALL BE LEVEL.
- MATERIALS
  - REFER TO SPECIFICATION FOR CONCRETE AND REINFORCEMENT REQUIREMENTS.
- TOLERANCES
  - TOPS OF CONCRETE FOUNDATION MUST BE WITHIN 0.02' OF THE ELEVATION REQUIRED.



4 SECTION THROUGH BLOCKOUT  
SCALE: NTS

**Kimley-Horn and Associates, Inc.**  
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924 GERVAIS STREET  
COLUMBIA, SC 29201  
PHONE: 803.403.8558

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CAMPUS PLANNING AND CONSTRUCTION  
COLUMBIA, SC 29208

REGISTERED PROFESSIONAL ENGINEER  
NO. 28099

DRAWING:	DATE:	BY:	DATE:	BY:
	03/21/14	NEW		
BUILDING:	DESCRIPTION:	CHECKED BY:	DATE:	
REV:		DRAWN BY:	DATE:	

PROJECT TITLE: COKER LIFE SCIENCES GENERATOR PAD  
RICHLAND COUNTY, CITY OF COLUMBIA, SC

FOUNDATION PLAN & DETAILS  
University of South Carolina

SHEET: S1