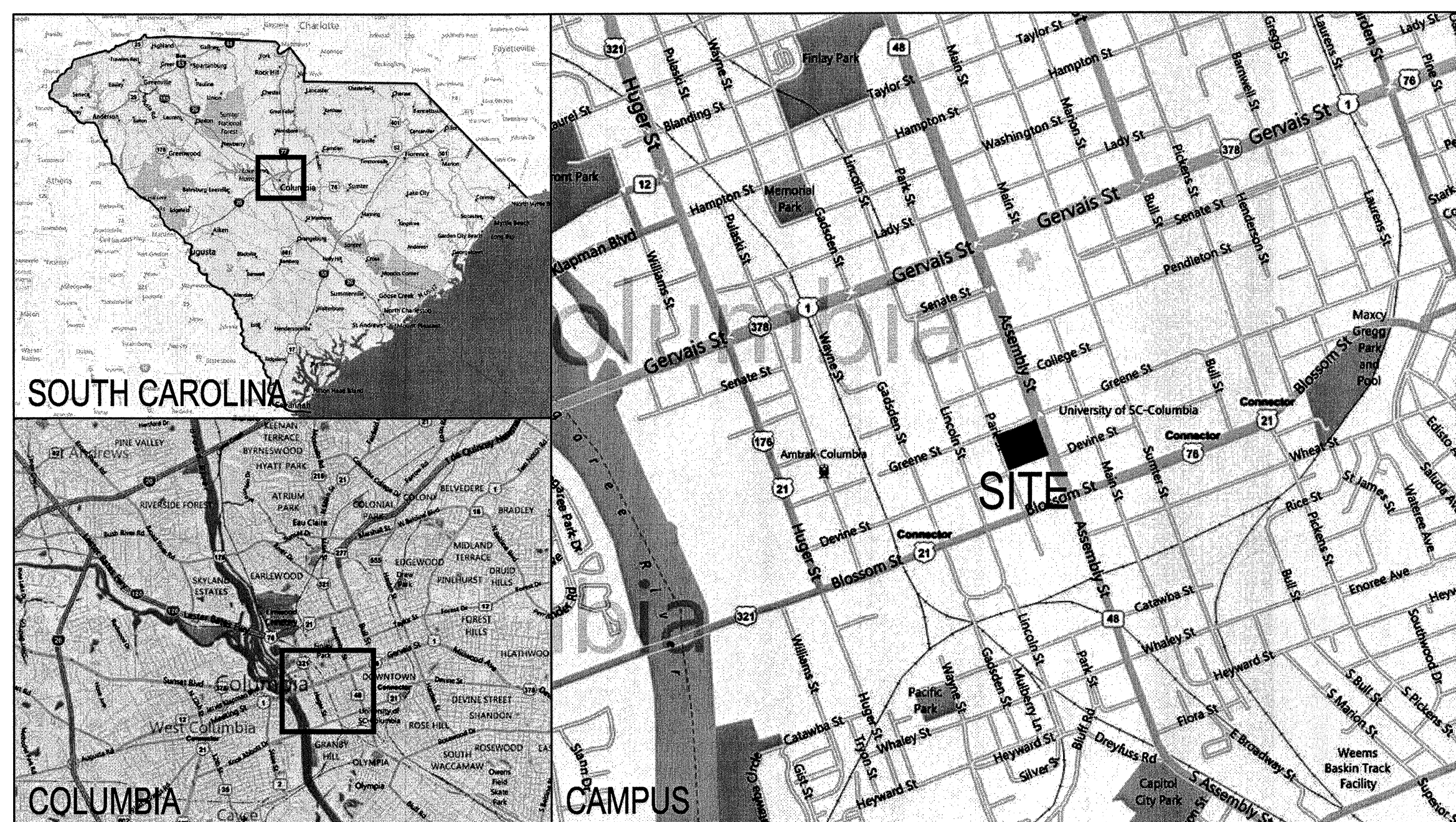
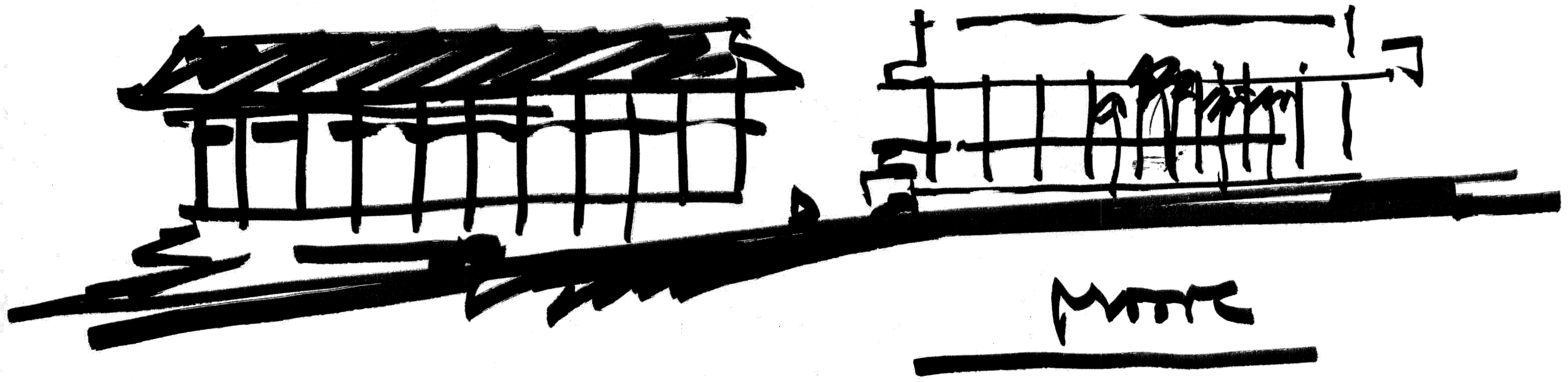




UNIVERSITY OF SOUTH CAROLINA
DARLA MOORE SCHOOL OF BUSINESS
CONSTRUCTION
BID PACKAGE 1C: CIVIL

OCTOBER 21, 2011
OSE PROJECT NO: **H27-6069-AC-1C**

CLIENT

BUSINESS PARTNERSHIP FOUNDATION
1705 COLLEGE STREET
COLUMBIA, SC 29208
TEL: 803 777 3176
FAX: 803 777 9123

USC CAMPUS PLANNING & CONSTRUCTION
743 GREENE STREET
COLUMBIA, SC 29208
TEL: 803 777 4022
FAX: 803 777 4084

ARCHITECT

RAFAEL VINOLY ARCHITECTS PC
50 VANDAM STREET
NEW YORK, NY 10013
TEL: 212 924 5060
FAX: 212 924 5858

CONSTRUCTION MANAGER

GILBANE BUILDING COMPANY
700 PONTE VEDRA LAKES BOULEVARD
PONTE VEDRA BEACH, FL 32082
TEL: 678 282 1362
FAX: 770 729 9701

STRUCTURAL ENGINEER, MEP ENGINEER,
CIVIL ENGINEER, FIRE PROTECTION ENGINEER
STEVENS & WILKINSON
1501 MAIN STREET, FLOOR 1
COLUMBIA, SC 29201-5801
TEL: 803 765 0320
FAX: 803 254 6209

SPECIFICATIONS

ROBERT SCHWARTZ & ASSOCIATES
589 8TH. AVE., 17TH. FLOOR
NEW YORK, NY 10018
TEL: 212 691 3248
FAX: 212 633 1613

SURVEYOR

BP BARBER & ASSOCIATES, INC.
101 RESEARCH DRIVE
COLUMBIA, SC 29202-1116
TEL: 803 454 4400
FAX: 803 771 6676

LANDSCAPE ARCHITECT

GRIMBALL-COTTERILL ASSOCIATES
800 BELTLINE BOULEVARD
COLUMBIA, SC 29205
TEL: 803 738 9525
FAX: 803 782 3916

USC BUSINESS PARTNERSHIP FOUNDATION
ON BEHALF OF
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COLUMBIA, SC 29298
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50 VANDAM STREET
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TEL: 212 924 5060 FAX: 212 924 5858

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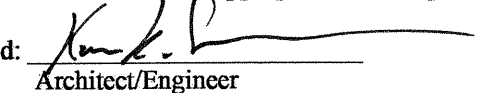
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589 8TH. AVE., 17TH FLOOR
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BID PACKAGE 1C
SITE PREPARATION

SHEET NUMBER :

TABLE 5-1 FLOOD HAZARD INFORMATION and FLOOD LOADS			
FLOOD HAZARD AREA	X	MAP# 45079C0094H	
Base Flood Elevation	-	MSL	2/20/2002
Design Flood Elevation	-	MSL	NGVD or FIRM
NON HIGH-VELOCITY WAVE ACTION		IBC 1612.3 and ASCE 24	
Elevation of Lowest Proposed Floor	230'-8"	MSL	Meet ASCE 24 Section 2.6.2.1
Dry floodproofing	☒ no	☐ yes	per ASCE 24
HIGH-VELOCITY WAVE ACTION			
Elevation of bottom of Lowest Horizontal Structural Member of lowest floor	230'-2"	MSL	
Flotation resistant	☒ no	☐ yes	per ASCE 24
Breakaway wall	☒ no	☐ yes	per ASCE 24

IBC 1612 and SE-900, as applicable

ZONING CERTIFICATION	
"I hereby certify that, to the best of my knowledge, these plans comply with applicable zoning ordinances, and that plans have been submitted to appropriate authority for their review and/or approval."	
Signed: 	Date: 10/21/11
Architect/Engineer	Date

If the project does not require a National Pollution Discharge Elimination System (NPDES) permit from SCDHEC, include the following certification on the Site Plan(s): N/A - Requires NPDES

EROSION AND SEDIMENT REDUCTION/STORMWATER MANAGEMENT	
Designer's Certification:	
"I hereby certify that the measures in this plan are designed to control erosion, retain sediment on the site, and manage stormwater in a manner that neither any on-site nor off-site damage or problem is caused or increased, that all structural measures are designed to the minimum standards for health and safety, and that all the provisions of the plan are in compliance with the Regulations contained in Chapter 72, Article 2, SC Code of Regulations (Erosion and Sediment Reduction and Stormwater Management Regulations)."	
* REQUIRES NPDES PERMIT FROM SCDHEC	
Engineer or Registered Landscape Architect (Circle one)	Date

TABLE 5-2 SOILS & SITE			
SOILS INVESTIGATION (If available)			
		☐ no ☒ Yes	per IBC 1802.2
SOILS CLASSIFICATION			
Site Class (seismic class)	C	per IBC 1613.5.2	
Classes Soil of Materials (UCS System)	See Geotechnical Report	per IBC 1802.3	
Allowable Footing Bearing Pressure	3000 psf		
MINIMUM DESIGN SOIL BEARING LOAD	1500 psf	per IBC table 1804.2.1	
COMPACTION			
Subgrade	98 Percent	☐ ASTM D698 ☒ ASTM D1557 ☐ AASHTO (only for paving & roads)	
Base	100 Percent	☒ ASTM D698 ☐ ASTM D1557	
Other	Percent	☐ AASHTO(only for paving & roads)	
		☐ ASTM D698 ☐ ASTM D1557	
		☐ AASHTO(only for paving & roads)	
MINIMUM DESIGN SOIL LATERAL LOAD	40 psf	per IBC 1610.1	
FOOTINGS			
Undisturbed footings	☐ no ☒ Yes		
Compacted Fill Material	☐ no ☒ Yes	per IBC 1803.5	
ELEVATIONS			
Elevation of Water Table	222' - 205' MSL	Per Geotechnical Report	
Elevation of lowest footing	225' MSL		
Elevation of lowest floor or basement	230' - 8" MSL		

TABLE 5-9 STRUCTURAL DESIGN INFORMATION			
OCCUPANCY CATEGORY (IES)			
			IBC Table 1604.5
LIVE LOADS			
Floor Live Load	$F_u =$ N/A	PSF	List the F_u for each occupancy
Roof Live Load	$R_u =$ N/A	PSF	
Ground Snow Load	$p_g =$ N/A	PSF	IBC (Figure 1608.2)
WIND LOADS			
Analysis Procedure	N/A		ASCE 7
Basic Wind Speed	$V_{33} =$ N/A	MPH	3 sec gust IBC Fig 1609
Exposure Category	N/A		
Wind Importance Factor	$I_w =$ N/A		ASCE 7 (Table 6.1)
Internal Pressure Coefficient	$GC_{pi} =$ N/A		ASCE 7
External Pressure Coefficient	$GC_{pe} =$ N/A		ASCE 7
SEISMIC LOADS			
Seismic Importance Factor	$I = 1.25$		ASCE 7
Soil Class	C		IBC 1613.5.2
Mapped Spectral Response Accelerations			$S_s = 0.552$
Design Spectral Response Acceleration Parameters			$S_{DS} = 0.434$ $S_{D1} = 0.164$
Seismic Use Group	III		ASCE 7 (Seismic Occupancy Category IBC)
Seismic Design Category	C		IBC Tables 1613.5.6(1) & 1613.5.6(2)
Basic Seismic Force Resisting System	N/A		
Design Base Shear	N/A	KIPS	
Seismic Response Coefficient(s)	$C_s =$ N/A		ASCE 7
Response Modification Factor(s)	$R =$ N/A		ASCE 7
Analysis Procedure			
ARCHITECTURAL-MECHANICAL-ETC. LOADS			Provide as applicable: architectural items, mechanical, plumbing, etc. per ASCE 7
SPECIAL LOADS			Provide as applicable: abnormal items, moving loads, impact, hoisting, etc. per ASCE 7

*per IBC Chapter 16 and ASCE 7 - Information may be shown on initial Structural Sheet of the drawings or on Sheet with other code information. List floor design loads on structural plans.

Table 5-10 PLUMBING INFORMATION	
WATER SYSTEM	
City of Columbia	
Service Line Size	8 Inches
Peak	283 GPM
Total Demand	1,283 GPM No. Fixture Units 1,600
SANITARY SEWER SYSTEM	
City of Columbia	
Loading	61,340 GPD
Service Line Size	6 Inches
Slope	0.12 min inches/ft

USC BUSINESS PARTNERSHIP FOUNDATION
ON BEHALF OF
USC CAMPUS PLANNING & CONSTRUCTION

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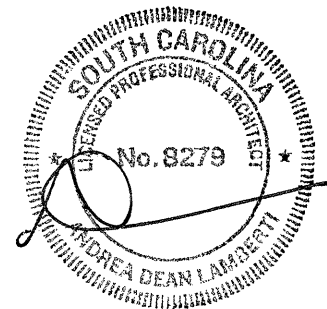
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BID PACKAGE 1C
SITE PREPARATION

OCTOBER 21, 2011



SEAL & SIGNATURE					
					
					
					
					
					
					
					
					
					
					

STORM STRUCTURES

SD1 DI GRATE=225.14 INV IN=222.29	SD13 DI GRATE=290.07 INV IN=283.07 INV OUT=283.07	SD26 SMH RIM=216.89 INV IN=212.91	SD37 SMH RIM=255.86 INV IN(A)=251.86 INV IN(B)=249.11 INV IN(C)=248.88 INV OUT=244.09
SD2 JB RIM=243.42 INV IN(A)=241.37 INV IN(B)=240.89 INV IN(C)=237.63 INV OUT=236.70	SD14 DI GRATE=288.75 INV IN=283.90 INV OUT=283.40	SD27 SMH RIM=218.45 INV IN=215.53 INV IN(C)=248.88 INV OUT=214.85	SD38 DI GRATE=258.34 INV IN=255.59 INV OUT=253.34
SD3 DI GRATE=244.31 INV OUT=242.31	SD15 DI GRATE=248.77 (FULL OF DIRT)	SD28 SMH RIM=221.14 INV IN(A)=216.64 INV IN(B)=214.89 INV IN(C)=214.86 INV OUT=214.74	SD39 DI GRATE=258.57 INV IN=255.27 INV OUT=253.57
SD4 DI GRATE=249.26 INV OUT=242.01	SD16 DI GRATE=253.22 (FULL OF DIRT)	SD29 CB TOP=221.72 INV IN=218.67 INV OUT=217.22	SD40 DI GRATE=258.31 INV IN(A)=255.16 INV IN(B)=255.11 INV OUT=254.76
SD5 DI GRATE=248.31 (FULL OF DIRT)	SD17 DI GRATE=252.04 INV OUT=248.89	SD30 DI GRATE=276.87 (FULL OF DIRT)	SD41 DI GRATE=255.52 INV IN(A)=252.40 INV IN(B)=251.67 INV OUT=250.87
SD6 DI GRATE=248.78 INV OUT=244.28	SD18 SMH RIM=228.39 INV IN(A)=223.79 INV IN(B)=223.97 INV IN(C)=223.54 INV OUT=222.89	SD31 DI GRATE=276.70 INV IN=272.70 INV OUT=272.40	SD42 DI GRATE=263.00 INV OUT=258.75
SD7 DI GRATE=245.80 INV IN=244.05	SD19 CB TOP=226.28 (FULL OF DIRT)	SD32 SMH RIM=274.20 INV IN(A)=269.50 INV IN(B)=269.50 INV OUT=268.84	SD43 SMH RIM=250.73 INV IN(A)=244.32 INV IN(B)=242.27 INV OUT=242.23
SD8 DI GRATE=287.16 (FULL OF ASPHALT)	SD20 DI GRATE=249.99 INV IN(A)=244.79 INV IN(B)=238.74 INV OUT=229.19	SD33 DI GRATE=273.51 INV IN=269.91	SD44 DI GRATE=248.51 (FULL OF DIRT)
SD9 DI GRATE=288.32 INV IN(A)=283.32 INV IN(B)=278.32 INV OUT=280.87	SD21 DI GRATE=250.04 INV OUT=247.54	SD34 JB RIM=274.57 INV IN(A)=270.32 INV IN(B)=269.78 INV OUT=269.68	SD45 SMH RIM=242.55 INV IN=235.89
SD10 DI GRATE=290.74 INV IN=281.74 INV OUT=281.74	SD22 DI GRATE=250.01 INV OUT=247.51	SD35 DI GRATE=249.23 (FULL OF DIRT)	
SD11 SMH RIM=291.48 (INACCESSIBLE)	SD23 DI GRATE=250.01 INV OUT=247.51	SD36 DI GRATE=254.97 INV OUT=251.87	
SD12 DI GRATE=290.56 INV IN=282.51 INV OUT=282.31	SD24 DI GRATE=249.98 INV OUT=247.08		
	SD25 DI GRATE=252.90 (FULL OF DIRT)		

SANITARY SEWER

SS1 MH RIM=228.46 INV IN=222.06	SS12 MH RIM=217.29 INV IN=210.74 INV OUT=210.69
SS2 MH RIM=244.28 INV IN(A)=236.38 INV IN(B)=234.93 INV OUT=233.62	SS13 MH RIM=222.20 INV IN(A)=215.35 INV IN(B)=215.32 INV OUT=213.68
SS3 MH RIM=252.34 INV OUT=246.60	SS14 MH RIM=263.63 INV IN(A)=255.23
SS4 MH RIM=288.18 (FULL OF SEDIMENT)	SS15 MH RIM=257.87 INV IN(A)=251.62 INV IN(B)=251.32 INV OUT=250.87
SS5 MH RIM=288.27 (FULL OF SEDIMENT)	SS16 MH RIM=261.28 INV IN(A)=253.91 INV IN(B)=253.76 INV OUT=253.73
SS6 MH RIM=280.06 INV IN=280.46 INV OUT=280.47	SS17 MH RIM=251.38 INV IN=244.33 INV OUT=243.14
SS7 MH RIM=281.83 INV OUT=283.48	SS18 MH RIM=255.20 (INACCESSIBLE)
SS8 MH RIM=288.93 INV IN=283.23 INV OUT=281.76	SS19 MH RIM=252.08 (FULL OF SEDIMENT)
SS9 MH RIM=300.75 INV IN=294.30 INV OUT=294.30	SS20 MH RIM=247.91 INV IN=238.98 INV OUT=238.28
SS10 MH RIM=290.08 INV OUT=278.57	
SS11 MH RIM=237.82 (NO PIPES FOUND) BOTTOM=224.46	

BASIS OF HORIZONTAL & VERTICAL DATUM

MONUMENT- SOUTH CAROLINA POPULATION CTR
PID- DG7240
ELEVATION- 312.66
NORTHING- 788,214.88
EASTING- 1,990,039.29
SCALE FACTOR- 0.99981022

EXISTING UTILITIES LEGEND

— G —	GAS LINE
— W —	WATER LINE
— SS —	SANITARY SEWER LINE
— CW —	CHILLED WATER LINE
— ST —	STEAM LINE
— UE —	UNDERGROUND ELECTRIC
— OHP —	OVERHEAD POWER
— FOC —	FIBER OPTIC
=====	STORM DRAINAGE LINE

BENCHMARK
ARROW OF FH
ELEV.= 289.49'
MSL

USC BUSINESS PARTNERSHIP FOUNDATION
ON BEHALF OF
USC CAMPUS PLANNING & CONSTRUCTION

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COLUMBIA, SC 29298
TEL: 803 777 4022 FAX: 803 777 0484

ARCHITECT:
RAFAEL VINOLY ARCHITECTS PC
50 VANDAM STREET
NEW YORK, NY 10013
TEL: 212 924 5060 FAX: 212 924 5858

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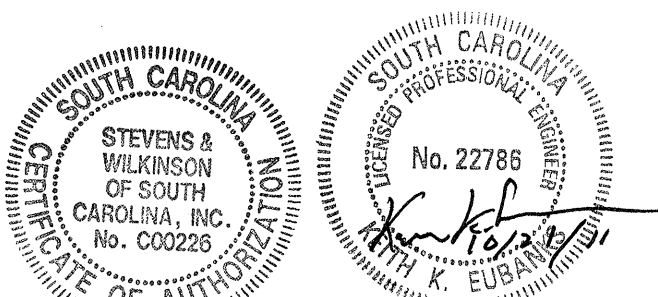
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50 VANDAM STREET
COLUMBIA, SC 29205
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COLUMBIA, SC 29202-1116
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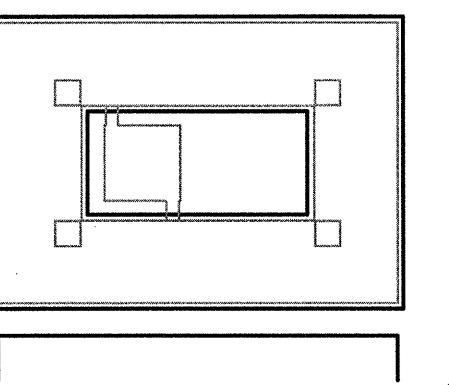
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OCTOBER 21, 2011



SEAL & SIGNATURE

DATE	ISSUE NO.	DATE	ISSUE NO.	DATE	ISSUE NO.
2011.10.21		2011.10.17		2011.09.09	
2011.08.29		2011.08.19		2011.07.14	
2011.07.14		2011.07.14		2011.07.14	
2011.07.14		2011.07.14		2011.07.14	
2011.07.14		2011.07.14		2011.07.14	
2011.07.14		2011.07.14		2011.07.14	
2011.07.14		2011.07.14		2011.07.14	
2011.07.14		2011.07.14		2011.07.14	
2011.07.14		2011.07.14		2011.07.14	



KEY PLAN & NORTH SIGN

0 30 60
1" = 30'

EXISTING CONDITIONS
PLAN

SHEET TITLE:

C1100

SHEET NUMBER:

EXISTING CONDITIONS PLAN
SCALE: 1" = 30'

01

NOTES:

- 1) THE SITE IS IDENTIFIED AS RICHLAND COUNTY TAX PARCEL 08915-08-01 (PORTION).
- 2) THE PROJECT SITE IS IN THE CITY OF COLUMBIA.
- 3) ALL ELEVATIONS SHOWN HAVE BEEN BASED UPON NAVD 88 DATUM.
- 4) THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE LOCATIONS AND ELEVATIONS OF ALL UNDERGROUND UTILITIES PRIOR TO CONSTRUCTION.
- 5) ALL DIMENSIONS REFERENCED TO THE CURB INCLUDING RADII ARE TO THE FACE OF CURB (PARKING LOT SIDE).

REFERENCES:

- 1) SITE SURVEY AND TOPOGRAPHIC SURVEY PLAT PREPARED FOR UNIVERSITY OF SOUTH CAROLINA DARLA MOORE SCHOOL OF BUSINESS, DATED NOVEMBER 3, 2010, BY B.P. BARBER AND ASSOCIATES, INC.

EXISTING UTILITIES LEGEND

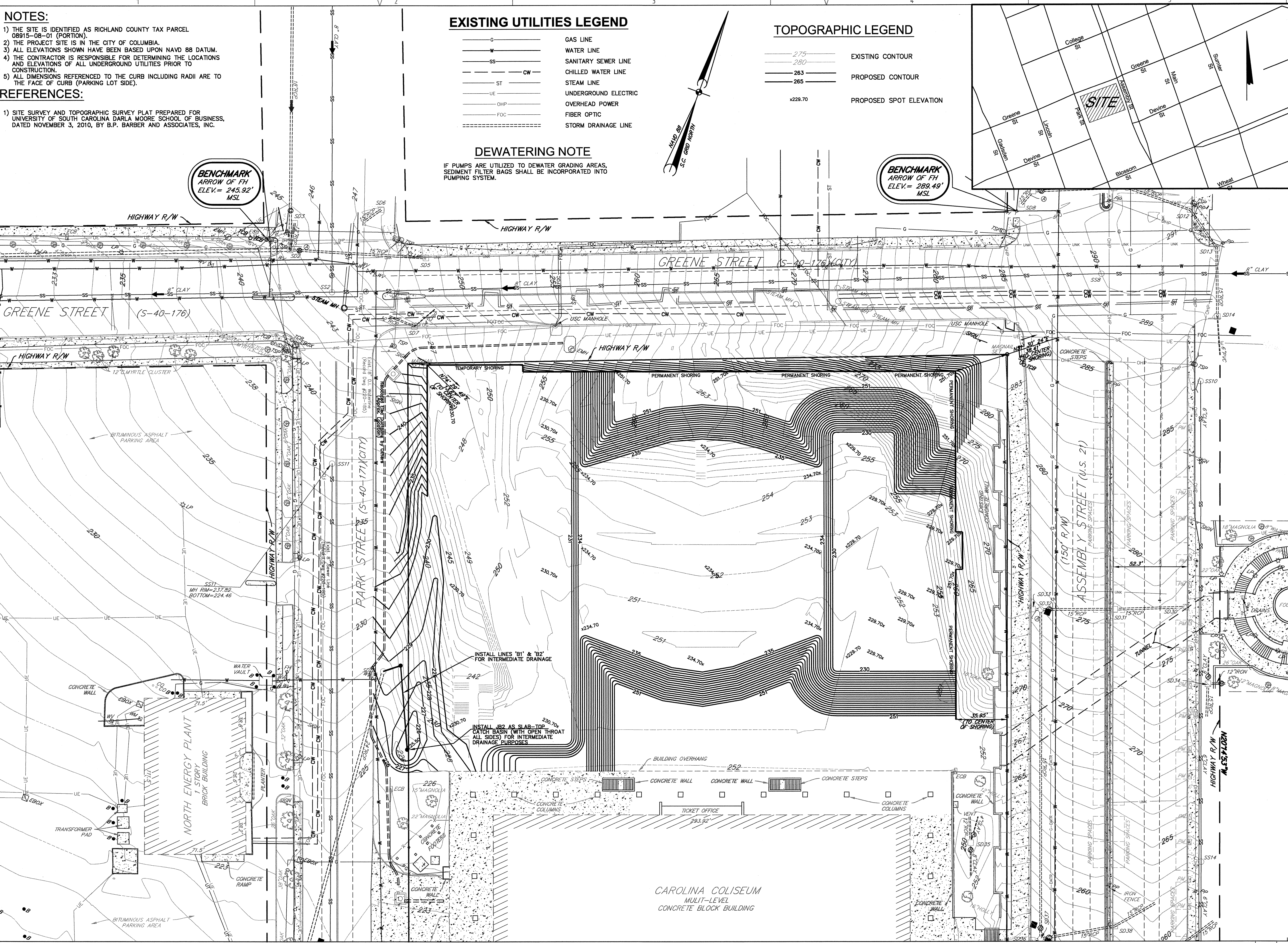
	GAS LINE
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	SANITARY SEWER LINE
	CHILLED WATER LINE
	STEAM LINE
	UNDERGROUND ELECTRIC
	OVERHEAD POWER
	FIBER OPTIC
	STORM DRAINAGE LINE

DEWATERING NOTE

IF PUMPS ARE UTILIZED TO DEWATER GRADING AREAS, SEDIMENT FILTER BAGS SHALL BE INCORPORATED INTO PUMPING SYSTEM.

TOPOGRAPHIC LEGEND

	EXISTING CONTOUR
	PROPOSED CONTOUR
	PROPOSED SPOT ELEVATION



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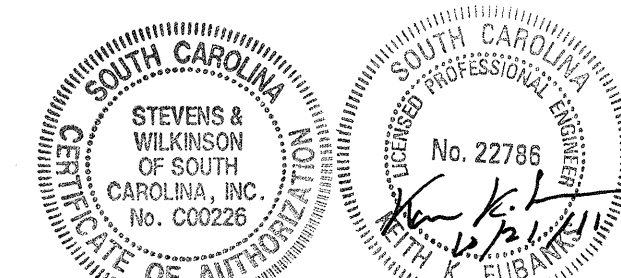
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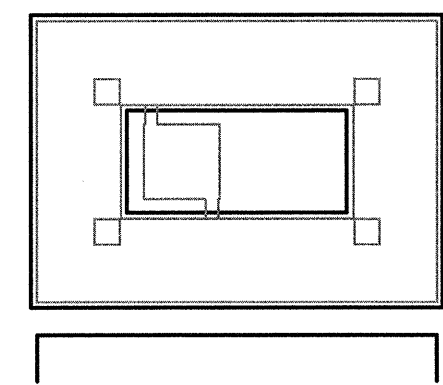
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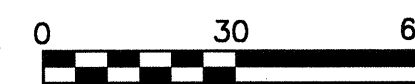


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ISSUE NO.	ISSUE DATE	ISSUE NO.	ISSUE DATE	ISSUE NO.	ISSUE DATE
1	2011.10.21	2	2011.10.17	3	2011.09.09
4	2011.08.29	5	2011.08.19	6	2011.07.14



KEY PLAN & NORTH SIGN



1" = 30'

INTERMEDIATE GRADING &
STORM DRAINAGE PLAN

SHEET TITLE:

C1300

SHEET NUMBER:

INTERMEDIATE GRADING & STORM DRAINAGE PLAN

SCALE: 1" = 30'

01

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DATED NOVEMBER 3, 2010, BY B.P. BARBER AND ASSOCIATES, INC.

<u>275</u>	EXISTING CONTOUR
<u>280</u>	
<u>263</u>	PROPOSED CONTOUR
<u>265</u>	
x229.70	PROPOSED SPOT ELEVATION

BENCHMARK
ARROW OF FH
ELEV.= 289.49
MSL

FOUNDATIONS & RETAINING WALLS TO BE INSTALLED
BACKFILLED TO FINAL SUBGRADE ELEVATION AS PART
OF A SUBSEQUENT BID PACKAGE.

INSTALL LINES 'B1' & 'B2'
FOR INTERMEDIATE DRAINAGE

INSTALL JB2 AS SLAB-TOP
CATCH BASIN (WITH OPEN THROAT
ALL SIDES) FOR INTERMEDIATE
DRAINAGE PURPOSES

CAROLINA COLISEUM
MULT-LEVEL
CONCRETE BLOCK BUILDING

SHEET NUMBER

FOUNDATION & FOOTING PLAN
SCALE : 1" = 30'