

UNIVERSITY OF SOUTH CAROLINA
DARLA MOORE SCHOOL OF BUSINESS CONSTRUCTION
STRUCTURE

BID PACKAGE 2: STRUCTURE
DECEMBER 09, 2011

OSE PROJECT NO: **H27-6069-AC-2**

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SHEET # ARCHITECTURE	
A0 SERIES GENERAL INFORMATION	
A00	COVER SHEET
A001	DRAWING LIST
A011	GENERAL NOTES, SYMBOLS & ABBREVIATIONS
A020.1	CODE TABLES
A020.2	CODE TABLES
A020B	TEMPORARY CONSTRUCTION FENCING (FOR REFERENCE ONLY)
A0203	TEMPORARY CONSTRUCTION FENCING ELEVATIONS (FOR REFERENCE ONLY)
A0302	ACCESSIBILITY AND FIRE DEPARTMENT ACCESS PLAN (FOR REFERENCE ONLY)
A0401	BUILDING GEOMETRY PLAN - HORIZONTAL CONTROL PLAN
A0700	LIFE SAFETY PLAN - LEVEL 0
A0700.1	LIFE SAFETY PLAN - LEVEL 0.5 TUNNEL
A0710	LIFE SAFETY PLAN - LEVEL 1
A0720	LIFE SAFETY PLAN - LEVEL 2
A0730	LIFE SAFETY PLAN - LEVEL 3
A0740	LIFE SAFETY PLAN - LEVEL 4
A074.1	LIFE SAFETY PLAN - LEVEL 4 OCCUPANCY CALCULATIONS
A0750	LIFE SAFETY PLAN - LEVEL 5
SHEET # CIVIL	
C1300	INTERMEDIATE GRADING & STORM DRAINAGE PLAN (FOR REFERENCE ONLY)
C1500	FINAL STORM DRAINAGE PLAN (FOR REFERENCE ONLY)
SHEET # ARCHITECTURE	
A1 SERIES PLANS	
A1100	FLOOR PLAN - LEVEL 0 (FOR REFERENCE ONLY)
A1100.1	FLOOR PLAN - LEVEL 0.5 TUNNEL (FOR REFERENCE ONLY)
A1110	FLOOR PLAN - LEVEL 1 (FOR REFERENCE ONLY)
A1210	FLOOR PLAN - LEVEL 2 (FOR REFERENCE ONLY)
A1201	FLOOR PLAN - SETTING OUT PLAN LEVEL 2 ENCLOSURE (FOR REFERENCE ONLY)
A1310	FLOOR PLAN - LEVEL 3 (FOR REFERENCE ONLY)
A1410	FLOOR PLAN - LEVEL 4 (FOR REFERENCE ONLY)
A1510	FLOOR PLAN - KEY PLAN LEVEL 5 ADA ACCESS PLAN (FOR REFERENCE ONLY)
A1610	FLOOR PLAN - KEY PLAN ROOF LEVEL (FOR REFERENCE ONLY)
A1600	SLAB EDGE PLAN - LEVEL 0
A1600A	ENLARGED SLAB EDGE PLAN - LEVEL 0 - ZONE A
A1600B	ENLARGED SLAB EDGE PLAN - LEVEL 0 - ZONE B
A1600C	ENLARGED SLAB EDGE PLAN - LEVEL 0 - ZONE C
A1600D	ENLARGED SLAB EDGE PLAN - LEVEL 0 - ZONE D
A1600E	ENLARGED SLAB EDGE PLAN - LEVEL 0 - ZONE E
A1600F	ENLARGED SLAB EDGE PLAN - LEVEL 0 - ZONE F
A1610	SLAB EDGE PLAN - LEVEL 1
A1610A	ENLARGED SLAB EDGE PLAN - LEVEL 1 - ZONE A
A1610B	ENLARGED SLAB EDGE PLAN - LEVEL 1 - ZONE B
A1610C	ENLARGED SLAB EDGE PLAN - LEVEL 1 - ZONE C
A1610D	ENLARGED SLAB EDGE PLAN - LEVEL 1 - ZONE D
A1610E	ENLARGED SLAB EDGE PLAN - LEVEL 1 - ZONE E
A1610F	ENLARGED SLAB EDGE PLAN - LEVEL 1 - ZONE F
A1620	SLAB EDGE PLAN - LEVEL 2
A1620A	ENLARGED SLAB EDGE PLAN - LEVEL 2 - ZONE A
A1620B	ENLARGED SLAB EDGE PLAN - LEVEL 2 - ZONE B
A1620C	ENLARGED SLAB EDGE PLAN - LEVEL 2 - ZONE C
A1620D	ENLARGED SLAB EDGE PLAN - LEVEL 2 - ZONE D
A1620E	ENLARGED SLAB EDGE PLAN - LEVEL 2 - PLANTERS
A1630	SLAB EDGE PLAN - LEVEL 3
A1630A	ENLARGED SLAB EDGE PLAN - LEVEL 3 - ZONE A
A1630B	ENLARGED SLAB EDGE PLAN - LEVEL 3 - ZONE B
A1630C	ENLARGED SLAB EDGE PLAN - LEVEL 3 - ZONE C
A1630D	ENLARGED SLAB EDGE PLAN - LEVEL 3 - ZONE D
A1640	SLAB EDGE PLAN - LEVEL 4
A1640A	ENLARGED SLAB EDGE PLAN - LEVEL 4 - ZONE A
A1640B	ENLARGED SLAB EDGE PLAN - LEVEL 4 - ZONE B
A1640C	ENLARGED SLAB EDGE PLAN - LEVEL 4 - ZONE C
A1640D	ENLARGED SLAB EDGE PLAN - LEVEL 4 - ZONE D
A1650	SLAB EDGE PLAN - LEVEL 5
A1650A	ENLARGED SLAB EDGE PLAN - LEVEL 5 - ZONE A
A1650B	ENLARGED SLAB EDGE PLAN - LEVEL 5 - ZONE B
A1650C	ENLARGED SLAB EDGE PLAN - LEVEL 5 - ZONE C
A1650D	ENLARGED SLAB EDGE PLAN - LEVEL 5 - ZONE D
A1660	SLAB EDGE PLAN - ROOF
A1660A	ENLARGED SLAB EDGE PLAN - ROOF - ZONE A
A1660B	ENLARGED SLAB EDGE PLAN - ROOF - ZONE B
A1660C	ENLARGED SLAB EDGE PLAN - ROOF - ZONE C
A1660D	ENLARGED SLAB EDGE PLAN - ROOF - ZONE D
A3 SERIES BUILDING SECTIONS AND PARTIAL BUILDING SECTIONS	
A3101	BUILDING SECTIONS - NS (FOR REFERENCE ONLY)
A3111	BUILDING SECTIONS - EW (FOR REFERENCE ONLY)
A4 SERIES CORE & SHELL BUILDING COMPONENTS	
A4111	ELEVATIONS - RETAINING WALLS (FOR REFERENCE ONLY)
A4112	ELEVATIONS - FOUNDATION WALLS
A4113	ELEVATIONS - FOUNDATION WALLS
A4114	ELEVATIONS - FOUNDATION WALLS
A4121	ENLARGED SECTIONS - RETAINING WALLS (FOR REFERENCE ONLY)
A4122	ENLARGED SECTIONS - RETAINING WALLS (FOR REFERENCE ONLY)
A4123	ENLARGED SECTIONS - RETAINING WALLS (FOR REFERENCE ONLY)
A4124	ENLARGED SECTIONS - RETAINING WALLS (FOR REFERENCE ONLY)
A4125	ENLARGED SECTIONS - RETAINING WALLS (FOR REFERENCE ONLY)
A4126	ENLARGED SECTIONS - RETAINING WALLS (FOR REFERENCE ONLY)
A4131	ENLARGED SECTIONS - FOUNDATION WALLS
A4132	ENLARGED SECTIONS - FOUNDATION WALLS
A4133	ENLARGED SECTIONS - FOUNDATION WALLS

A4134	ENLARGED SECTIONS - FOUNDATION WALLS
A4135	ENLARGED SECTIONS - FOUNDATION WALLS
A4136	ENLARGED SECTIONS - FOUNDATION WALLS
A4137	ENLARGED SECTIONS - FOUNDATION WALLS
A4138	ENLARGED SECTIONS - FOUNDATION WALLS
A4139	ENLARGED SECTIONS - FOUNDATION WALLS
A4140	ENLARGED SECTIONS - FOUNDATION WALLS
A4141	ENLARGED SECTIONS - FOUNDATION WALLS
A4142	ENLARGED SECTIONS - FOUNDATION WALLS
A4143	ENLARGED SECTIONS - FOUNDATION WALLS
A4144	ENLARGED SECTIONS - FOUNDATION WALLS
A4145	ENLARGED SECTIONS - FOUNDATION WALLS
A4146	ENLARGED SECTIONS - FOUNDATION WALLS
A4147	ENLARGED SECTIONS - AUDITORIUMS (FOR REFERENCE ONLY)
A4191	DETAILS - FOUNDATIONS
A4192	DETAILS - FOUNDATIONS
A4201	CORE OVERVIEW & LOCATION PLAN
A4211	ENLARGED PLANS AND SECTIONS - CORE 1
A4212	ENLARGED ELEVATIONS - CORE 1
A4221	ENLARGED PLANS AND SECTIONS - CORE 2
A4222	ENLARGED ELEVATIONS - CORE 2
A4231	ENLARGED PLANS AND SECTIONS - CORE 3
A4232	ENLARGED ELEVATIONS - CORE 3
A4241	ENLARGED PLANS AND SECTIONS - CORE 4
A4242	ENLARGED ELEVATIONS - CORE 4
A4243	ENLARGED ELEVATIONS - CORE 4
A4244	ENLARGED ELEVATIONS - CORE 4
A4291	DETAILS - CORES
A4292	DETAILS - CORES
A4385	ENLARGED PLANS & SECTION - SITE ELEVATOR
A4386	ENLARGED ELEVATIONS - SITE ELEVATOR
A4610.0	EWS-01 - ENLARGED ELEVATION - WEST FAÇADE
A4610.1	EWS-01 - ENLARGED PLAN,SECTION & ELEVATION @ LOADING DOCK
A4610.2	EWS-01 - ENLARGED PLAN,SECTION & ELEVATION @ EMERGENCY GENERATOR ROOM
A4610.4	EWS-01 - ENLARGED ELEVATION - NORTH & SOUTH FAÇADE
SHEET #	STRUCTURE
S0101	STRUCTURAL NOTES
S0102	STRUCTURAL NOTES
S1100	FOUNDATION PLAN - LEVEL 0
S1100A	FOUNDATION PLAN - LEVEL 0 - ZONE A
S1100B	FOUNDATION PLAN - LEVEL 0 - ZONE B
S1100C	FOUNDATION PLAN - LEVEL 0 - ZONE C
S1100D	FOUNDATION PLAN - LEVEL 0 - ZONE D
S1100E	FOUNDATION PLAN - LEVEL 0 - ZONE E
S1100F	FOUNDATION PLAN - LEVEL 0 - ZONE F
S1100.1	FOUNDATION PLAN - LEVEL 0.5 - TUNNEL AND AUDITORIUM
S1100.1A	FOUNDATION PLAN - LEVEL 0.5 - TUNNEL AND AUDITORIUM - ZONE A
S1110	FRAMING PLAN - LEVEL 1
S1110A	FRAMING PLAN - LEVEL 1 - ZONE A
S1110B	FRAMING PLAN - LEVEL 1 - ZONE B
S1110C	FRAMING PLAN - LEVEL 1 - ZONE C
S1110D	FRAMING PLAN - LEVEL 1 - ZONE D
S1110E	FRAMING PLAN - LEVEL 1 - ZONE E
S1110F	FRAMING PLAN - LEVEL 1 - ZONE F
S1120	FRAMING PLAN - LEVEL 2
S1120A	FRAMING PLAN - LEVEL 2 - ZONE A
S1120B	FRAMING PLAN - LEVEL 2 - ZONE B
S1120C	FRAMING PLAN - LEVEL 2 - ZONE C
S1120D	FRAMING PLAN - LEVEL 2 - ZONE D
S1130	FRAMING PLAN - LEVEL 3
S1130A	FRAMING PLAN - LEVEL 3 - ZONE A
S1130B	FRAMING PLAN - LEVEL 3 - ZONE B
S1130C	FRAMING PLAN - LEVEL 3 - ZONE C
S1130D	FRAMING PLAN - LEVEL 3 - ZONE D
S1140	FRAMING PLAN - LEVEL 4
S1140A	FRAMING PLAN - LEVEL 4 - ZONE A
S1140B	FRAMING PLAN - LEVEL 4 - ZONE B
S1140C	FRAMING PLAN - LEVEL 4 - ZONE C
S1140D	FRAMING PLAN - LEVEL 4 - ZONE D
S1150	FRAMING PLAN - LEVEL 5
S1150A	FRAMING PLAN - LEVEL 5 - ZONE A
S1150B	FRAMING PLAN - LEVEL 5 - ZONE B
S1150C	FRAMING PLAN - LEVEL 5 - ZONE C
S1150D	FRAMING PLAN - LEVEL 5 - ZONE D
S1160	FRAMING PLAN - ROOF LEVEL
S1160A	FRAMING PLAN - ROOF LEVEL - ZONE A
S1160B	FRAMING PLAN - ROOF LEVEL - ZONE B
S1160C	FRAMING PLAN - ROOF LEVEL - ZONE C
S1160D	FRAMING PLAN - ROOF LEVEL - ZONE D
S2101	TYPICAL FOUNDATION SECTIONS AND DETAILS
S2102	TYPICAL FOUNDATION SECTIONS AND DETAILS
S2103	FOUNDATION SECTIONS AND DETAILS
S2104	FOUNDATION SECTIONS AND DETAILS
S2105	FOUNDATION SECTIONS AND DETAILS
S2106	FOUNDATION SECTIONS AND DETAILS
S3101	COLUMN SCHEDULE AND DETAILS
S4101	TYPICAL FRAMING SECTIONS AND DETAILS
S4102	TYPICAL FRAMING SECTIONS AND DETAILS
S4103	FRAMING SECTIONS AND DETAILS
S4104	FRAMING SECTIONS AND DETAILS
S4105	FRAMING SECTIONS AND DETAILS
S4106	FRAMING SECTIONS AND DETAILS

SS101	TYPICAL SHEAR WALL DETAILS
SS102	SHEAR WALL ELEVATIONS
SS103	SHEAR WALL ELEVATIONS
SS104	SHEAR WALL ELEVATIONS
SS105	SHEAR WALL ELEVATIONS
SS106	SHEAR WALL ELEVATIONS
SS107	EXTERIOR WALL ELEVATION AND DETAIL
SS110	SHEAR WALL PLANS AND DETAILS
SS111	SHEAR WALL PLANS AND DETAILS
SS112	SHEAR WALL PLANS AND DETAILS
SS113	SHEAR WALL PLANS AND DETAILS
SS114	SHEAR WALL PLANS AND DETAILS
SS115	SHEAR WALL PLANS AND DETAILS
SS601	TYPICAL BRACED FRAME DETAILS
SS602	BRACED FRAME ELEVATIONS AND DETAILS
SS610	PALMETTO PLANTER FRAMING PLAN AND DETAILS

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

PROJECT NAME:
UNIVERSITY OF SOUTH CAROLINA
DARLA MOORE SCHOOL OF BUSINESS CONSTRUCTION
STRUCTURE

OSE PROJECT NUMBER:
H27-6069-AC-2

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BID PACKAGE 2:

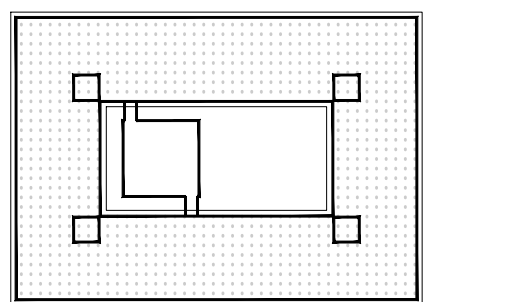
STRUCTURE

DECEMBER 09, 2011

PHASE :

SEAL & SIGNATURE

ISSUE NO.	ISSUE DATE	ISSUE NO.	ISSUE DATE	ISSUE NO.	ISSUE DATE
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	2011.04.04				
	2011.02.09				



KEY PLAN & NORTH SIGN

DRAWING LIST
SHEET 1

SHEET TITLE :

A0101
SHEET NUMBER :

PROJECT ADDRESS:
1014 GREENE STREET, COLUMBIA, SC

AUTHORITIES HAVING JURISDICTION (FIRE SAFETY):
OFFICE OF STATE ENGINEER (OSE)
UNIVERSITY OF SOUTH CAROLINA CAMPUS FIRE MARSHALL

CODES FOR THE PROJECT:
INTERNATIONAL BUILDING CODE (IBC), 2009 EDITION
ANSI A111.1 - 2003 EDITION
2010 ADA STANDARDS (DEPT. OF JUSTICE)
OFFICE OF STATE ENGINEER MANUAL, 2011 EDITION
INTERNATIONAL FIRE CODE (IFC), 2009 EDITION
INTERNATIONAL ENERGY CONSERVATION CODE (IECC), 2006 EDITION
INTERNATIONAL MECHANICAL CODE (IMC), 2009 EDITION
INTERNATIONAL PLUMBING CODE (IPC), 2009 EDITION
INTERNATIONAL PRIVATE SEWAGE DISPOSAL CODE (IPSD), 2009 EDITION
INTERNATIONAL PROPERTY MAINTENANCE CODE (IPMC), 2009 EDITION
NATIONAL ELECTRIC CODE (NEC) (NFPA-70), 2008 EDITION
NATIONAL ELECTRICAL SAFETY CODE (ANSI-C2-2007 EDITION
AMERICAN NATIONAL STANDARDS INSTITUTE 117.1, MOST RECENT EDITION
STATE FIRE MARSHALL RULES, REGULATIONS, AND POLICIES
SOUTH CAROLINA ELEVATOR, CODE AND REGULATIONS
STATE OF SOUTH CAROLINA TELEPHONE EQUIPMENT ROOM AND COMMUNICATIONS/DATA SYSTEMS POLICIES

GENERAL NOTES:
WORK WITHIN THE AREA BOUNDARIES INDICATED IN THE PROJECT DOCUMENTS AND COMPLY WITH ALL APPLICABLE BUILDING CODE, REGULATION & ORDINANCE REQUIREMENTS. OCCUPANTS ADJACENT TO THE PROJECT AREA BOUNDARIES SHALL CONTINUE UNINTERRUPTED OCCUPANCY DURING CONSTRUCTION OF THE PROJECT.
VERIFY FIELD CONDITIONS AND COORDINATION WITH THE PROJECT DOCUMENTS PRIOR TO PROCEEDING WITH THE WORK.
COORDINATE THE WORK WITH ALL REQUIREMENTS INDICATED IN THE PROJECT DOCUMENTS.
COORDINATE THE WORK WITH EQUIPMENT, FURNISHINGS AND SYSTEMS PROVIDED BY THE OWNER.
DEPUTY INSPECTORS SHALL REGISTER WITH AND BE APPROVED BY THE BUILDING OFFICIAL PRIOR TO INSPECTION.
ALL WORK ON THIS PROJECT IS TO BE PERFORMED AND COMPLETED IN CONFORMITY WITH THE MOST RECENT EDITIONS OF THE COLUMBIA MUNICIPAL CODE, SOUTH CAROLINA BUILDING, PLUMBING, MECHANICAL, ELECTRICAL AND ENERGY CODES. ALL WORK IS SUBJECT TO FIELD INSPECTION. ANY APPROVALS THAT APPEAR TO AUTHORIZE NON-CONFORMITY WITH THE ADOPTED STANDARDS ARE NOT VALID. 2007 C.B.C. APPENDIX CH 1 SECTION 105.4

DEFINITIONS:
"TYPICAL" OR "1-TYP" INDICATES IDENTICAL COMPLETE SYSTEM SHALL BE PROVIDED FOR EACH OCCURRENCE OF THE CONDITION NOTED.
"SIMILAR" INDICATES COMPLETE SYSTEM AND COMPONENTS SHALL BE PROVIDED COMPARABLE TO THE CHARACTERISTICS FOR THE CONDITION NOTED.
"AS REQUIRED" INDICATES COMPONENTS REQUIRED TO COMPLETE THE NOTED SYSTEM AS INDICATED IN THE PROJECT DOCUMENTS, SHALL BE PROVIDED.
"ALIGN" INDICATES ACCURATELY PROVIDE FINISH FACES OF THE MATERIALS IN STRAIGHT, TRUE AND PLUMB RELATION TO ADJACENT MATERIALS.

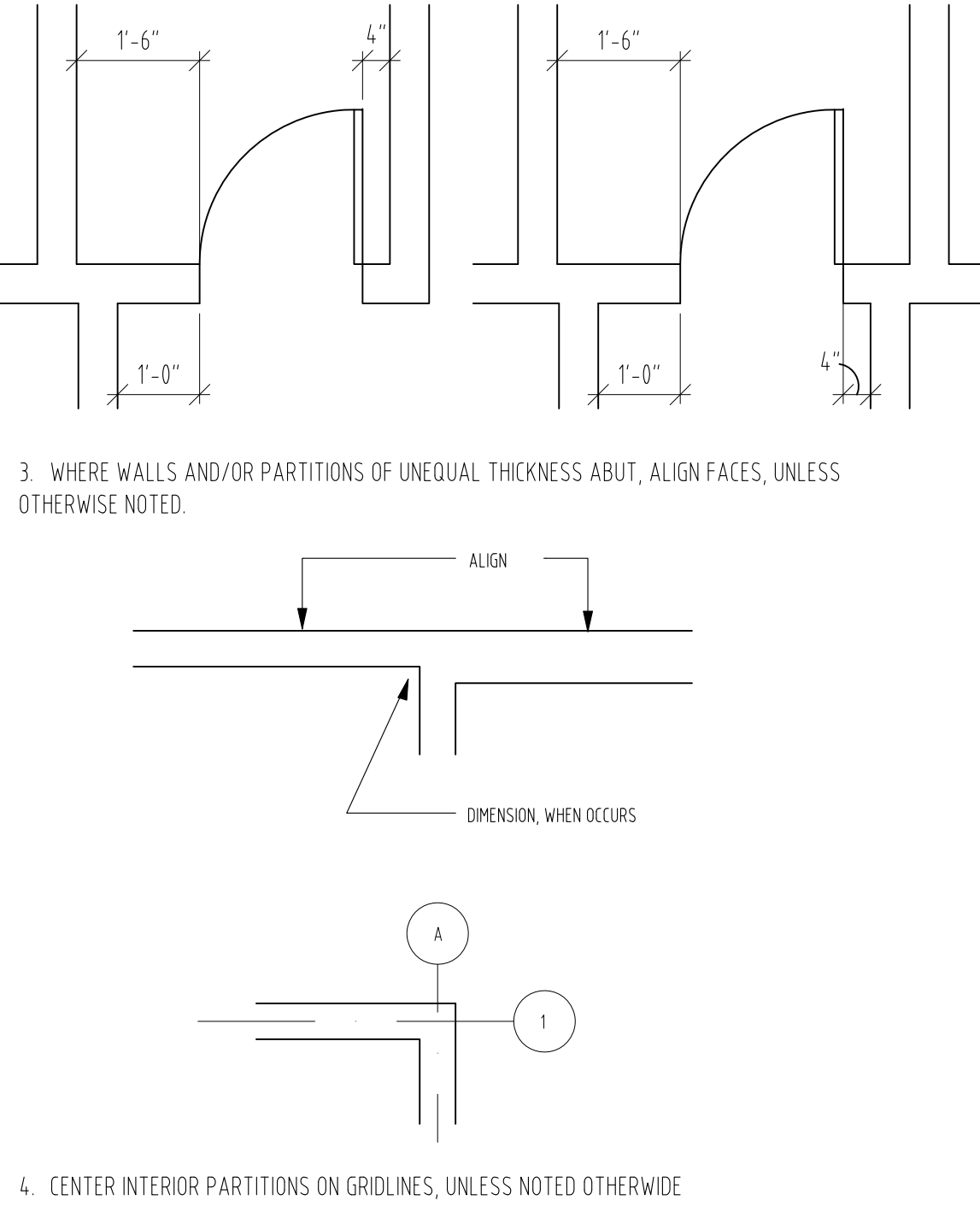
DIMENSIONS:
DIMENSIONS ARE INDICATED TO THE CENTERLINE OF THE STRUCTURAL GRID, FACE OF CONCRETE WALL, NOMINAL FACE OF CMU WALL, FACE OF PARTITION AS SCHEDULED, UNLESS OTHERWISE NOTED.
ALIGNMENT OF PARTITIONS AND FINISHES AS SCHEDULED SHALL BE STRAIGHT, TRUE & PLUMB.
MINIMUM DIMENSIONS FOR ACCESSIBILITY CLEARANCES AND BUILDING CODE REQUIREMENTS SHALL BE MAINTAINED.
FLOOR ELEVATIONS ARE INDICATED FROM TOP OF SLAB, UNLESS OTHERWISE NOTED.
VERTICAL DIMENSIONS ARE INDICATED FROM THE FLOOR ELEVATION TO FACE OF FINISHED MATERIAL, UNLESS OTHERWISE NOTED ABOVE FINISH FLOOR (A.F.F.).
DIMENSIONS SHOWN ON THE DRAWINGS SHALL INDICATE THE REQUIRED SIZE, CLEARANCE AND DIMENSIONAL RELATIONSHIP BETWEEN PROJECT SYSTEMS AND COMPONENTS. DIMENSIONS SHALL NOT BE DETERMINED BY SCALING THE DRAWINGS.

DRAWING SET ORGANIZATION:
EACH DRAWING SET SHEET IS IDENTIFIED BY THE SHEET NUMBER IN THE LOWER RIGHT HAND CORNER OF THE DRAWING TITLE BLOCK. THE SHEET TITLE PROVIDES A GENERAL DESCRIPTION OF THE CONTENTS OF THE SHEET:
SHEET NUMBER EXAMPLE: A5101
A = THE DISCIPLINE THAT CREATED THE DRAWING
5 = THE DRAWING SERIES CONTAINED ON THE SHEET
101 = THE SHEET NUMBER
DRAWING SET INDEX INDICATES THE COMPLETE LIST OF SHEETS CONTAINED IN THE DRAWING SET, INDEXED BY DISCIPLINE, SHEET NUMBER AND SHEET TITLE, IN SEQUENTIAL ORDER. NOTE THAT ALL SEQUENTIAL SHEET NUMBERS MAY BE NOT USED IN THE DRAWING SET.
DISCIPLINE IDENTIFICATION, IN ORDER BOUND IN THE DRAWING SET. REFER TO THE DRAWING SET INDEX FOR DISCIPLINE CONTAINED IN THIS DRAWING SET:
C = CIVIL
A = ARCHITECTURAL
S = STRUCTURAL

SHEET NOTES:
1. THE PURPOSE OF THIS SHEET IS TO ILLUSTRATE AND DEFINE TYPICAL GRAPHIC SYMBOLS AND SYSTEMS OF GRAPHICS WHICH MAY OCCUR ON THE ARCHITECTURAL DRAWINGS.
2. ADDITIONAL SYMBOLS, NOT SHOWN OR DEFINED ON THIS SHEET, MAY BE USED ON THE ARCH. DRAWINGS AND ARE TYPICALLY DEFINED ON OTHER SHEETS. WHERE SUCH SYMBOLS OR SYMBOLIC SYSTEMS ARE NOT DERIVED BY THE ARCH. DRAWINGS, THE REFERENCE SYMBOLS SHALL BE DEFINED BY "STANDARD REFERENCE SYMBOLS FOR CONSTRUCTION DOCUMENTS" PUBLISHED BY THE CONSTRUCTION SPECIFICATIONS INSTITUTE.
3. THE ILLUSTRATION OF A SYMBOL OR SYSTEM OF SYMBOLS ON THIS SHEET DOES NOT NECESSARILY INDICATE THAT THE BUILDING ITEM OR SYSTEM DESCRIBED BY THE SYMBOL IS USED AS A PART OF THIS PROJECT. REFER TO THE PLANS, ELEVATIONS, SECTIONS, SCHEDULES, DETAILS AND SPECIFICATIONS TO DETERMINE THE SCOPE OF THE WORK.
4. SYMBOLS ARE NOT DRAWN TO SCALE. TO DETERMINE THE ACTUAL SIZES OF ELEMENTS REPRESENTED BY THE SYMBOLS, REFER TO THE SPECIFICATIONS AND OTHER DRAWINGS AS MAY APPLY.
5. FOR INFORMATION REGARDING SYMBOLS WHICH ARE USED AS ABBREVIATIONS, REFER TO THE "ABBREVIATIONS" ON THIS SHEET.
6. CERTAIN ABBREVIATIONS MAY INCORPORATE SPECIAL ABBREVIATIONS AS A PART OF THE SYMBOL. SUCH SPECIAL ABBREVIATIONS ARE AS DEFINED ON THIS SHEET.
7. EXTERIOR WALL DIMENSIONS ARE TO FACE OF FINISH. INTERIOR DIMENSIONS ARE TO FACE OF FINISH, FACE OF CONCRETE MASONRY UNITS AND THE CENTER LINE OF GRID OR COLUMN LINES, UNLESS OTHERWISE NOTED.

DOCUMENT SHEETS/COMPUTER FILES:
THE SIGNED AND SEALED ORIGINALS OF THESE DRAWINGS CONSTITUTE THE PROFESSIONAL PRODUCT OF RAFAEL VINOLY ARCHITECTS AND GOVERN OVER ANY FILES PRODUCED AS ELECTRONIC MEDIA. ANY DRAWINGS PROVIDED AS ELECTRONIC MEDIA ARE FOR THE PURPOSES OF EXPEDITING THE INPUT OF INFORMATION CONTAINED IN THOSE FILES INTO THE COMPUTERS OF OTHERS. THE USER OF ANY FILES OBTAINED FROM RAFAEL VINOLY ARCHITECTS AGREES TO THE FULLEST EXTENT OF THE LAW TO ASSUME RESPONSIBILITY FOR ANY OUTCOME ARISING FROM THE REUSE AND MODIFICATIONS OF THOSE FILES.

ARCHITECTURAL DIMENSIONING CONVENTIONS:
1. EXCEPT WHERE SPECIFICALLY NOTED TO THE CONTRARY, DIMENSIONS SHOWN ON THE ARCHITECTURAL DRAWINGS CONFORM TO THE FOLLOWING CONVENTIONS:
A. CONTROLLING DIMENSIONS ARE TO COLUMN GRID LINES OR TO THE FACE OF CONCRETE AND CONCRETE MASONRY UNIT WALLS (INCLUDING ANY APPLIED FINISHES).
B. EXTERIOR DIMENSIONS ARE TYPICALLY TO FACE OF FINISH, ASSEMBLY OR OTHER FEATURE.
2. WHERE DIMENSIONS ARE NOT PROVIDED ON THE FLOOR PLANS TO LOCATE DOOR OPENINGS, APPLY THE FOLLOWING RULES, IN ORDER, TO DETERMINE THE LOCATION OF THE DOOR OPENINGS:
A. DOOR OPENINGS MAY BE DIMENSIONED ON DRAWINGS OTHER THAN THE FLOOR PLANS. REFER TO SECTIONS, ELEVATIONS, DETAILS AND DOOR SCHEDULE NOTES FOR ADDITIONAL DIMENSIONAL INFORMATION.
B. WHERE HINGE OF A DOOR IS SHOWN ADJACENT TO A WALL, OR WALLS, PERPENDICULAR TO THE WALL IN WHICH THE DOOR OPENING OCCURS, LOCATE THE HINGE-SIDE FINISHED EDGE OF THE DOOR OPENING (4) INCHES FROM THE FACE, EXCLUSIVE OF ANY APPLIED FINISH, OF THE CLOSEST PERPENDICULAR WALL OR PARTITION ASSEMBLY, UNLESS OTHERWISE NOTED.



ABBREVIATIONS	
A	ANCHOR BOLT
AB	ACOUSTIC, ALTERNATING CURRENT
AC	ACOUSTICAL CEILING TILE, CEILING TILE
ACT	AREA DRAIN
AD	ADDENDUM
ADD	ADDITIONAL
ADDL	ADDITION
ADJ	ADJUSTABLE, ADJACENT
AF	ATHLETIC FLOORING
AFF	ABOVE FINISH FLOOR
AFS	ABOVE FLOOR SLAB
AGGR	AGGREGATE
AHJ	AUTHORITIES HAVING JURISDICTION
ALT	ALTERNATE, ALTERATION
ALUM	ALUMINUM
ANNUNC	ANNUNCIATOR
ANOD	ANODIZED (ANODIC COATING)
AP	ACCESS PANEL
APPROX	APPROXIMATELY
AR	ARCHITECT
ARCH	ARCHITECT, ARCHITECTURAL
ASSY	ASSEMBLY
AUTO	AUTOMATIC
ASF	ASSIGNABLE SQUARE FEET
ASPH	ASPHALT
AUX	AUXILIARY
AV	AUDIO VISUAL
AVG	AVERAGE
AWP	ACOUSTIC WALL PANEL
BAL	BALANCE
BD	BOARD
BIT	BITUMINOUS
BL	BUILDING LINE
BLDG	BUILDING
BLKG	BLOCKING
BM	BENCHMARK / BEAM
BO	BY OTHERS, BOTTOM OF
BOT	BOTTOM
BOS	BOTTOM OF SLAB
BRG	BRACING
BRKT	BRACKET
BSC	BIO-SAFETY CABINET
BSMT	BASEMENT
BTW	BETWEEN
BUR	BUILT UP ROOF
C	COURSES
CAB	CABINET
CAP	CAPACITY
CARPT	CARPET TILE
CB	CATCH BASIN, CHALK BOARD
CC	CENTER TO CENTER, COLORED CONCRETE
CEM	CEMENT, CEMENTITIOUS
CEM PL	CEMENT PLASTER
CER	CERAMIC
CER	CERAMIC
CFI	CONTRACTOR FURNISHED
CFH	CONTRACTOR INSTALLED
CFI	CONTRACTOR FURNISHED
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TABLE 5-1 FLOOD HAZARD INFORMATION AND FLOOD LOADS		
FLOOD HAZARD AREA		
Base Flood Elevation _____	X	MAP#45079C0094H 2/20/2002
Design Flood Elevation _____	MSL	NGVD or FIRM
Design Flood Elevation _____	MSL	IBC 1612.3 and ASCE 24
NON HIGH-VELOCITY WAVE ACTION		
Elevation of Lowest Proposed Floor	230'-8" MSL	Meet ASCE 24 Section 2.6.2.1
Dry floodproofing	<input type="checkbox"/> No <input type="checkbox"/> Yes per ASCE 24	
HIGH-VELOCITY WAVE ACTION		
Elevation of bottom of Lowest Horizontal Structural Member of lowest floor	230'-2" MSL	
Floitation resistant <input type="checkbox"/> No <input type="checkbox"/> Yes		per ASCE 24
Breakaway wall	<input type="checkbox"/> No <input type="checkbox"/> Yes	per ASCE 24
IBC 1612 and SE-900, as applicable		
ZONING CERTIFICATION		
<p>"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."</p> <p>Signed: _____</p> <p>Architect/Engineer _____ Date _____</p>		
<p>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</p>		
EROSION AND SEDIMENT REDUCTION/STORMWATER MANAGEMENT		
<p>Designer's Certification:</p> <p>"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, S.C. Code of Regulations (Erosion and Sediment Reduction and Stormwater Management Regulations)."</p> <p>Signed: _____</p>		
Engineer or Registered Landscape Architect (Circle one)		Date

TABLE 5-2. SOILS & SITE	
SOILS INVESTIGATION (If available)	
<input checked="" type="checkbox"/> no <input type="checkbox"/> yes	per IBC 1802.2
SOILS CLASSIFICATION	
Site Class (seismic class)	<u>C</u> per IBC 1613.5.2
Classes Soil of Materials (UCS System)	See Geotechnical Report per IBC 1802.3
Allowable Footing Bearing Pressure	<u>3000</u> psf
MINIMUM DESIGN SOIL BEARING LOAD	
<u>1500</u> psf	per IBC table 1804.2.1
COMPACTION	
Subgrade <u>98</u> Percent	⊙ASTM D698 ⊙ASTM D1557 ⊙ASHTO (only for paving & roads)
Base <u>100</u> Percent	⊙ASTM D698 ⊙ASTM D1557 ⊙ASHTO(only for paving & roads)
Other <u> </u> Percent	⊙ASTM D698 ⊙ASTM D1557 ⊙ASHTO(only for paving & roads)
MINIMUM DESIGN SOIL LATERAL LOAD	
<u>40</u> psf	per IBC 1610.1
FOOTINGS	
Undisturbed footings	<input type="checkbox"/> no <input checked="" type="checkbox"/> yes
Compacted Fill Material	<input type="checkbox"/> no <input checked="" type="checkbox"/> yes per IBC 1803.5
ELEVATIONS	
Elevation of Water Table	<u>222'-205'</u> MSL per Geotechnical Report
Elevation of lowest footing	<u>225'</u> MSL
Elevation of lowest floor or basement	<u>230.5'</u> MSL
NOTE:	Where a fire wall is necessary to separate buildings, each building is to be provided individual code criteria tables 5-3 through 5-14. See IBC 503.1.2.

SEPERATIONS		
Firelocking Required	<input type="checkbox"/> no <input checked="" type="checkbox"/> yes	per IBC Section 717
Draftstopping Required	<input checked="" type="checkbox"/> no <input type="checkbox"/> yes	per IBC Section 717
	<input type="checkbox"/> no <input checked="" type="checkbox"/> yes	per IBC Section 909
	(Stair & Elevator Pressurization)	
Smoke Control System Required		
Smoke Barriers Required	<input checked="" type="checkbox"/> no <input type="checkbox"/> yes	per IBC Sections 407 and 408
Smoke Partitions Required	<input type="checkbox"/> no <input checked="" type="checkbox"/> yes	per IBC Sections 407
Fire Partition Required	<input checked="" type="checkbox"/> no <input type="checkbox"/> yes	per IBC Section 419
Fire Barrier Required	<input type="checkbox"/> no <input checked="" type="checkbox"/> yes	per IBC Section 706
ALARM & DETECTION		
Fire Alarm System Required	<input type="checkbox"/> no <input checked="" type="checkbox"/> yes	per IFC Section 907
Emergency Alarm System Required	<input type="checkbox"/> no <input checked="" type="checkbox"/> yes	per IFC 908
SUPPRESSION		
Standpipes Required	<input type="checkbox"/> no <input checked="" type="checkbox"/> yes	per IFC Section 905
Sprinklers Required	<input type="checkbox"/> no <input checked="" type="checkbox"/> yes	per IFC Section 903
Sprinklers Provided	<input type="checkbox"/> no <input checked="" type="checkbox"/> yes	
Portable extinguishers required	<input type="checkbox"/> no <input checked="" type="checkbox"/> yes	per IFC 906
	<input type="checkbox"/> no <input checked="" type="checkbox"/> yes	per IFC 904
Other suppression systems required	(Kitchen Suppression)	
Smoke & heat vents required	<input type="checkbox"/> no <input type="checkbox"/> yes	per IFC 910
Other: (Indicate other provided fire and life safety features not listed above, if any)		

TABLE 5-3 BASIC BUILDING CODE INFORMATION			
CONSTRUCTION CLASSIFICATION	Classified as Type IB noncombustible construction. Based on applicable high-rise criteria, fire resistance rating of building is permitted to be reduced to the fire resistance rating in Type IIA construction. (IBC 601.403.2.1.1)		
OCCUPANCY GROUP (indicate all)	(IBC 302)		
(Note IBC 506.4.1)	<p>Basement:</p> <p>Kitchen/fire Command Center - Group B</p> <p>MEP/Storage - Incidental</p> <p>Level 1:</p> <p>Auditorium/Performance Hall - Group A-1</p> <p>Lecture Halls, Classrooms, Study Areas, Case Rooms, Discussion/Recreation - Group A-3</p> <p>Conference/Seminar - Group B</p> <p>Level 2:</p> <p>Library and Classrooms - Group A-3</p> <p>Café - Group A-2</p> <p>Classrooms, Open Work Stations, Group Study - Group B</p> <p>MEP/Storage - Incidental</p> <p>Level 3:</p> <p>Classrooms - Group A-3</p> <p>Student Organization - Group A-3</p> <p>Office Area, Meeting Rooms - Group B</p> <p>Level 4:</p> <p>Future Garden - Group A-3</p> <p>Office Areas - Group B</p> <p>Project Meetings, Focus Rooms - Group B</p> <p>MEP/Storage - Incidental</p> <p>Level 5:</p> <p>Terrace - Group A-3</p>		
OCCUPANCY GROUP (indicate most restrictive)	(IBC Table 503)		
Does building require Incidental Use Area Separation?	<input type="checkbox"/> No <input checked="" type="checkbox"/> Yes	(IBC 508.2.2)	
Does building have Accessory Occupancy (ies)?	<input checked="" type="checkbox"/> No <input type="checkbox"/> Yes	(IBC 508.3.1)	SF
What percent of story is accessory occupancy?	(Incidental use only).		%
Mixed Occupancy	<input type="checkbox"/> No <input checked="" type="checkbox"/> Yes	(IBC 508.3)	
Not separated	<input type="checkbox"/> No <input checked="" type="checkbox"/> Yes	(IBC 508.3.2)	
Separated	<input checked="" type="checkbox"/> No <input type="checkbox"/> Yes	(IBC 508.3.3)	
		(IBC 506.4.1)	
OTHER FIRE PROTECTION SYSTEMS, DEVICES or FEATURES			
<p>If the building has any special or notable fire protection or safety feature or hazard the designers should list them here, describe the performance characteristics and refer to locations in construction documents. (e.g. fire extinguishers, smoke-evacuation/control/compartments. Note IBC 414.1.3.)</p> <p>Fire Extinguishers – Refer to life safety drawings for location (A0700 series)</p> <p>Pressurized Exit Stairs – Fans are shown on M1150 series sheets & are VFD controlled.</p> <p>Pressurized Elevator Hoistways – For stairs ST01 through ST04. Fans are shown on M1150 series sheets & are VFD controlled.</p>			

BUILDING ELEMENT	Rating As Required (in hours)	Rating As Designed (in hours)	Testing Agency & Design No. (UL, FM, etc)	Designers Wall/Partition Key Code
Structural Frame (per IBC Table 601)	1 Hr.	1 Hr.	UL Des. # X829	
Bearing Walls Exterior Interior (per IBC Table 601)	NOT APPLICABLE	NOT APPLICABLE	NOT APPLICABLE	NOT APPLICABLE
Nonbearing Walls & Partitions Exterior Interior (per IBC Table 601 & 602)	0 Noncombustible	0 1 Hr. 2 Hrs.	Refer to attached partition types (drawing A8101 to A8103).	Refer to attached partition types (drawing A8101 to A8103) and corresponding floor plans (A1100 to 1140D).
Floor Construction including supporting beams & joists (per IBC Table 601)	1 Hr.	1 Hr.	Meet 1 Hr. rating per IBC table 721.2.2.1	
Roof Construction including supporting beams & joists (per IBC Table 601)	1 Hr.	1 Hr.	Meet 1 Hr. rating per IBC table 721.2.2.1	
Fire Walls (per IBC Section 705)	NOT APPLICABLE	NOT APPLICABLE	NOT APPLICABLE	NOT APPLICABLE
Fire Barriers (per IBC Section 706)	1 Hr. 2 Hrs.	1 Hr. 2 Hrs.	1 Hr. Rated = UL Des. #U419, U442 2 Hr. Rated= UL Des. #U419, U442, U906, U905	Refer to attached partition types (drawing A8101 to A8103) and corresponding floor plans (A1100 to 1140D).
Shaft Enclosures (per IBC Section 707)	1 Hr. 2 Hrs. -708.4	1Hr. 2 Hrs.	UL Des. #U415 system A – 1Hr. UL # Des. #U415 system B – 2 Hrs.	1.3 – for 1 Hr. shaft wall 2.3 – for 2 Hr. shaft wall (refer to drawing A8101)
Fire Partitions (per IBC Section 708)	NOT APPLICABLE	NOT APPLICABLE	NOT APPLICABLE	NOT APPLICABLE
Opening & Protective Listing by Category (fire shutters, doors, etc. per IBC Section 715)	Doors on rated walls – 45 min. (1 Hr. rated walls) 90 min. (2 Hr. rated walls)	45 min. (1 Hr. rated walls) 90 min. (2 Hr. rated walls).	Fire rated doors – Assemblies complying with NFPA 80 listed and labeled by a testing and inspection agency.	Refer to attached door schedule.
Others as required by Designer)				

TABLE 5-4 BUILDING AREA	
AREA LIMIT BY TABLE 503 OF IBC (Do not indicate increases for sprinklers & street frontage.)	UNLIMITED _____ SF (area limitation per story)
AREA MODIFICATION FROM EQUATION 5-1 OF IBC (Insert equation from IBC 506.1 with completed calculations in this box) (Equation 5-1)	UNLIMITED _____ SF (maximum modified area per story)
$A_a = A_t + [A_t \times I_f] + [A_t \times I_s]$	
A_a = Allowable area per floor (square feet). A_t = Tabular area per floor in accordance with Table 503. I_f = Area increase factor due to frontage (percent) as calculated _____ in accordance with Section 506.2. I_s = Area increase due to sprinkler protection as calculated in accordance with Section 506.3.	
(Repeat equation for each story of differing occupancies, IBC 506.4.1)	
Note: footnote "c," from table 601 _____ SF (maximum area per story)	
Total Allowed Area of Building (summary of all stories)	UNLIMITED _____ SF
AREA AS DESIGNED PER STORY (Repeat for each story)	Level 0 – 27623 SF Level 1 – 76775 SF Level 3 – 43236 SF Level 4 – 68392 SF
Total Designed Area of Building	25,3801 SF

	AS DESIGNED		AS ALLOWED BY IBC	
	In Feet	In Stories	In Feet	In Stories
Without any Allowable Increase (per IBC Table 503)	91ft -8in.	6 Stories	160 Ft.	5 Stories
Allowable Height Increase (per IBC 504.2)	91ft -8in.	6 Stories	20 Ft.	1 Story
Total Height including any Allowable Increase	91ft -8in.	6 Stories	180 Ft.	6 Stories

Stories & Levels	Classification	Function of Space	A Floor Area	B Max Area allowed /Occupant	C Persons on floor for this Function	D Design Occupant Load
0	<u>Basement:</u>					
	B	Kitchen	2147 sf	100	23	
	I	Storage	18146 sf	300	62	
		Mechanical Unassigned				
	A-3	Large Storage	781 sf	15	58	
Subtotal Design Occupant Load for This Story						143
1	<u>Level 1:</u>					
	A-3	Auditorium/Performance Hall Stage	3237 sf	15 sf	1511	
		Case Room/Lecture Room Reconfigurable Classrooms				
	B	Discuss/Recitation	17142 sf	100 sf	875	
		Conference/Seminar				
	I	MEP/Storage – Incidental	654 sf	300 sf	5	
		Dedicated Maintenance Staff				
Subtotal Design Occupant Load for This Story						2391
2	<u>Level 2:</u>					
	B	OCM Workstations	11701 sf	100	319	
		Center for Business/Comm				
		Bookable Room				
		Graduate Lounge				
		Staff Offices/Collections/Service Desk				
	A-3	Museum/Greeting/Pavilion	8462 sf	15	559	
		Distribution Informal learning				
		Terrace	2940 sf	15	196	
A-2	Café	2047 sf	15	136		
I	Servery	431 sf	300	0		
Subtotal Design Occupant Load for This Story						1210
3	<u>Level 3:</u>					
	B	Undergrad work area/Div. Offices Associate Dean/Dean's Office/Offices	21837 sf	100	450	
		Team collaboration room				
		Exec. Edu. Staff/Reception				
		BPV Director's office/ Advancement Director/Staff				
		Bookable Project Space - B				
		Multi-purpose display area/Reception				
		Focus room/Classroom Lobby				
	S-2	Janitor	143 sf	3	0	
	I	Electrical Room/Telecom Room Video/Conference Room /Working lounge	431 sf	300	0	
	A-3	Shallow "U" case rom. (fixed seats)	6964 sf	15	339	
	Reconfigurable Classrooms –					
Subtotal Design Occupant Load for This Story						789
4	<u>Level 4:</u>					
	A-3	Conference / Seminar room	1684 sf	15	112	
	B	PHD Workspace	42149 sf	100	629	
		Offices – B Reception/Admin/Staff work space/Focus room				
	I	Mail/copy/Kitchen/Breakroom				
	MEP/storage	1853 sf	300	9		
Subtotal Design Occupant Load for This Story						750
5	<u>Level 5:</u>					
	A-3	Terrace	28319 sf	15	900	
Subtotal Design Occupant Load for This Story						900
Total Building Design Occupant Load						6183

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

PROJECT NAME:
UNIVERSITY OF SOUTH CAROLINA
DARLA MOORE SCHOOL OF BUSINESS CONSTRUCTION
STRUCTURE

OSE PROJECT NUMBER:
H27-6069-AC-2

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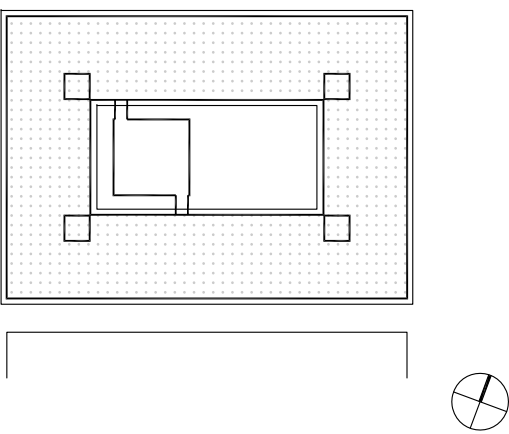
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BID PACKAGE 2:
STRUCTURE
DECEMBER 09, 2011

PHASE :

SEAL & SIGNATURE

[illegible]

KEY PLAN & NORTH SIGN

USE CODE TABLES

SHEET TITLE :

A0120.1
SHEET NUMBER :

SUPPLEMENTAL CODE INFORMATION

- THE DMSB IS CLASSIFIED AS A HIGH-RISE BUILDING AND COMPLIES WITH APPLICABLE REQUIREMENTS AS SPECIFIED BY IBC 403. A DEDICATED FIRE COMMAND CENTER IS LOCATED ON LEVEL 0 ADJACENT TO STAIR 3.
- A FIRE PUMP IS PROVIDED TO BOOST WATER PRESSURE TO THE AUTOMATIC SPRINKLER AND STANDPIPE SYSTEMS. THE FIRE PUMP ROOM IS LOCATED ON LEVEL 0 AND IS ACCESSIBLE DIRECTLY FROM THE OUTSIDE.
- EXIT ACCESS CORRIDORS DO NOT REQUIRE A FIRE RESISTANCE RATING SINCE THE BUILDING IS FULLY SPRINKLERED [IBC TABLE 1017].
- ALL ELEVATOR HOISTWAYS CONNECTING MORE THAN THREE STORIES ARE PRESSURIZED IN LIEU OF ENCLOSED ELEVATOR LOBBIES [IBC 708.14.1].
- TWO CONVENIENCE STAIRS CONNECTING LEVELS 1 THROUGH 4 ARE LOCATED IN AND OPEN TO THE COURTYARD. PROTECTION AND/OR FIRE SEPARATION OF THESE STAIRS IS NOT REQUIRED SINCE THESE STAIRS ARE NOT USED FOR EGRESS AND ARE NOT CONTAINED WITHIN THE BUILDING.
- TWO CONVENIENCE STAIRS CONNECT LEVELS 1 AND 2 ON THE EAST AND WEST SIDES OF THE COURTYARD. THESE STAIRS OPEN INTO CORRIDORS ON LEVEL 1 AND INTO VESTIBULES ON LEVEL 2. THE STAIRS ARE NOT PART OF THE MEANS OF EGRESS AND ARE PERMITTED IN ACCORDANCE WITH IBC 708.2, EX.7.
- EXCEPT AS NOTED, THE EXTERIOR WALLS OF THE DMSB ARE NOT FIRE-RESISTANCE RATED.
 - a). THE DMSB HAS A MINIMUM FIRE SEPARATION DISTANCE OF 30 FT ON ALL SIDES, WITH EXCEPTION OF THE SOUTH FAÇADE, ALLOWING NON-FIRE-RATED EXTERIOR WALLS AND UNLIMITED OPENINGS.
 - b). THE EXTERIOR WALL ON LEVEL 1 HAS A 1-HOUR FIRE RESISTANCE RATING ON THE EAST, WEST AND NORTH SIDES OF THE BUILDING TO SEPARATE THE EXIT DISCHARGE COURT FROM THE INTERIOR OF THE BUILDING.
 - c). ON THE SOUTH FAÇADE, THE EXISTING COLISEUM IS LOCATED APPROXIMATELY 61 FT AWAY (MEASURED FROM FAÇADE TO FAÇADE). THE COLISEUM ALSO HAS EXTERIOR STRUCTURAL COLUMNS LOCATED APPROXIMATELY 45 FT FROM THE SOUTH FAÇADE OF THE DMSB. THIS DISTANCE EXCEEDS THE MINIMUM REQUIRED SEPARATION DISTANCE OF 40 FT IN ORDER TO ALLOW NON-RATED EXTERIOR WALLS AND UNLIMITED OPENINGS (30 FT FOR DMSB TYPE IIB CONSTRUCTION + 10 FT FOR COLISEUM TYPE IIB CONSTRUCTION) [IBC TABLE 602].
- INTERIOR FINISH COMPLIES WITH IBC TABLE 803.9.

Occupancy	Exits	Corridors	Other Areas
Group B	B	C	C
Group A-1	B	B	C
Group A-2	B	B	C
Group A-3	B	B	C

- MEANS FOR POST-FIRE SMOKE REMOVAL ARE PROVIDED IN ACCORDANCE WITH IBC 403.4.6. FIXED WINDOWS WITH GLAZING THAT CAN BE CLEARED BY THE FIRE DEPARTMENT WILL BE PROVIDED. (IBC 403.4.6 (1) [EX 2])

- ACCESSIBLE MEANS OF EGRESS ARE PROVIDED BY AT-GRADE EXITS, ENCLOSED EXIT STAIRS AND ACCESSIBLE EGRESS ELEVATORS PER IBC 1007. ALL ACCESSIBLE EGRESS ELEVATORS ARE PROVIDED WITH STANDBY POWER. TWO-WAY COMMUNICATION IS PROVIDED AT ELEVATOR LANDINGS.

TABLE 5-9 STRUCTURAL DESIGN INFORMATION	
OCCUPANCY CATEGORY(IES)	See structural drawing S0101 for occupancy category.
LIVE LOADS	See structural drawing S0101 for live loads.
WIND LOADS	See structural drawing S0101 for wind loads.
SEISMIC LOADS	See structural drawing S0101 for seismic loads.
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 283GPM					
Total Demand 1,283 No. Fixture Units 1,600					
SANITARY SEWER SYSTEM		City of Columbia			
Loading 61,340GPD					
Service Line Size 6 Inches					
Slope 0.12 min/inches/ft					
MINIMUM PLUMBING FIXTURES REQUIRED/PROVIDED			per IPC Section 403 & Table 403.1		
	Male-Required	Male-Provided	Female-Required	Female-Provided	
Water Closets	45	58	59	64	
Lavatories	31	51	31	53	
Urinals*		25*			
Note*:Number of urinals to replace required W/C's per IPC 403.					
Drinking Fountains			27	36	
Unisex toilet					
Service Sink		5			
Others (list) _____					
* Urinals – See IPC 419.2					
Where mixed Occupancies occur within buildings, expand this table to indicate Occupant loads for each					
The minimum required toilet fixtures are calculated for the total Design Occupant Load indicated in Table 5-6					

TABLE 5-12 MECHANICAL INFORMATION		
AIR COMFORT SYSTEMS		
Overall Thermal Transfer Value (OTTV):	Roof:5.71 Btu/hr-sq-ft;	Wall 19.99 Btu/hr-sq-ft
Building Cooling Load	___332.5 ___ SF / Ton	
Building Heating Load	11.1 BTU / SF	
OTHER LOADING FEATURES		
Glass	U Factor 0.45 or less	Window to wall ratio ___37.2%_
Insulation Values	Roof ___0.061___	Exterior Walls 0.246
Outside Air minimum while occupied ___ CFM ___ Occupants		
Outside Air minimum while occupied:		
Seminar Room	260 CFM	18 Occupants
Shallow Case Room	1270 CFM	91 Occupants
Deep Case Room	845 CFM	61 Occupants
Sm. Recitation Room	480 CFM	31 Occupants
Lrg. Recitation Room	680 CFM	46 Occupants
Reconfig. Classroom (60 seat)	845 CFM	61 Occupants
Reconfig. Classroom (45 seat)	620 CFM	46 Occupants
Tiered Lecture Hall	1690 CFM	121 Occupants
Medium Lecture Hall	1500 CFM	251 Occupants
Performance Hall	3405 CFM	600 Occupants
Office Space	17 CFM/PERSON	200 FT 2 /Occupant
MECHANICAL SYSTEMS, SERVICE SYSTEMS & EQUIPMENT		
Briefly describe mechanical system:		
Dedicated Outdoor Air Systems provide treated fresh air either directly to classroom spaces or to AHUs serving those areas.		
Modular AHUs with hydronic cooling &/or heating supply air to their respective zones.		
Steam to HW converters to provide heating hot water to air handling equipment		
Level 0 – Combination of fan coil units (FCUs), ventilation fans & unit heaters		
Level 1- Chilled beams for the classrooms & conference rooms, single zone VAV AHUs for the auditorium & performance hall, fan-coil and blower coil units for the corridors.		
Level 2 – Underfloor air distribution w/underfloor fan powered VAVs @ perimeter, FCU for Café		
Level 3 & 4 – Chilled beams		
(The above data shall be considered a minimum and any special attribute required to meet the mechanical codes.)		

TABLE 5-13 ELECTRICAL INFORMATION				
SERVICE TRANSFORMER	<input checked="" type="checkbox"/> By utility co.	<input type="checkbox"/> By Agency(if by Agency) _____KVA Primary _____Voltage/Phase		
ELECTRICAL SERVICE INFORMATION				
Service Voltage/Phase	480/277V, 3-phase; 3000 Amperes			
Service Entrance Conductors Size	500MCM Quantity per Phase: 8			
Total Connected Load	_____2600 KVA			
Estimated Maximum Demand	_____1800 KVA			
Available Fault Current in Symmetrical Amperes	_____50,000			
Interrupting Capacity of Service Overcurrent Device	100 KAIC _____			
GROUNDING ELECTRODE SYSTEM COMPONENTS: _____(NEC 250)				
EMERGENCY SERVICE INFORMATION				
Emergency Generator	<input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes	600 KVA	Voltage/Phase_____ 480/277/3 _____ Fuel _____
Exit/Emergency Lights Backup Power				<input type="checkbox"/> Integral Battery <input checked="" type="checkbox"/> Generator
Fire Alarm System	<input checked="" type="checkbox"/> Manual	<input checked="" type="checkbox"/> Automatic	<input checked="" type="checkbox"/> Addressable	<input type="checkbox"/> Class A <input type="checkbox"/> Class B
LIGHTNING PROTECTION PROVIDED	<input type="checkbox"/> No <input checked="" type="checkbox"/> Yes			
COMMUNICATIONS COORDINATED	Contact Chief Information Office for applicability (803) 898-8172			
<input type="checkbox"/> Not Required <input checked="" type="checkbox"/> Yes				

Type of Development	SC Law or Reg.	Where to Obtain Permit/Approval	Status
Air pollutant discharge	48-1-100, R61-62.1	SCDHEC - Air Quality Control	N/A Project does not have boilers
Ambulatory surgical facilities	R61-91	SCDHEC - Health Facilities Construction	N/A No health facilities
Asbestos abatement	R61-86.1	SCDHEC - Air Quality Control	N/A No existing building remodeling. If there were to be, no Design-Phase Asbestos Permit is required
Building construction, Zoning	City	City of Columbia	Approved 6/9/2011
Community residential care facilities	R61-84	SCDHEC - Health Facilities Construction	N/A No care facilities
Construction in critical coastal areas	48-39-10, 130, 190	SCDHEC - Ocean & Coastal Res. Mgmt.	N/A Not in coastal area
Construction in navigable waters	49-1-16	SCDHEC - Water Pollution Control	N/A Not in water
Dams and reservoirs	49-11-200, R72-1, 2, 3	SCDHEC - Water Pollution Control	N/A No dam
Demolition of Real Property	R61-86.1	SCDHEC - Air Quality Control	N/A No demolition of structures
Design Review Board (BARs, SC Dept Archives & History, etc.)	City	City of Columbia	Approved 6/9/2011
Educational facilities (K through 12)	59-23-40	SC Department of Education – Office of District Facilities Management	N/A Not K-12
Elevators	14-16-90	SC Department of Labor, Licensing & Regulation	No Design-Phase permit required
Fire Department (Local)	City	City of Columbia	Approved 8/18/2011
Fire Protection Sprinkler	SC LLR	State Fire Marshal	Approved 9/9/2011
Fire suppression systems	R19-300.7	State Fire Marshal	No Design-Phase permit required
Floodplains, construction in	Exce. Order 82-19	Office of State Engineer	N/A Site is not in a floodplain
Food service establishments	R61-25	SCDHEC – Local County Health Dept.	No Design-Phase permit required but Food Service design will be submitted for approval to SCDHEC with Bid Package 3, as recommended by SCDHEC
Historical building rehabilitation	R12-125, 126	Archives and History, Local Authority	N/A No historic structures on site
Hospitals & infirmaries	R61-16	SCDHEC – Health Facilities Construction	N/A No health facilities on site
Road encroachment, local	City	City of Columbia	Approved 7/18/2011
Road encroachment, state	57-5-1080	Local SCDOT Maintenance Office	Approved
Sanitary sewer; treatment & disposal	R61-56, 57	City of Columbia	Approved 9/9/2011
Storm water discharge, erosion and sediment control	R61-9; R72-100-108	City of Columbia / SCDHEC	Approved 9/9/2011
Swimming areas, natural public	R61-50	SCDHEC – Water Supply Construction	N/A No swimming areas
Swimming pools, public	R61-51	SCDHEC – Water Supply Construction	N/A No swimming areas
Underground storage tanks	R61-92	SCDHEC – Groundwater Protection	In Progress for BP3
Waste discharge (sewage, industrial waste, etc.)	48-1-100, 110, R61-9	SCDHEC – Water Pollution Control	N/A City of Columbia has reviewed for Water/Sewer
Water Service	City	City of Columbia	Approved 9/9/2011
Wells, Underground injection	R61-71, 87	SCDHEC – Groundwater Protection	N/A No wells
Zoning(Municipal, County or District)	City	City of Columbia	Approved 6/9/2011

TABLE 5-15 STATEMENT OF SPECIAL INSPECTIONS						
Project Name:	Darla Moore School of Business					
	Construction					
Project Number:	H27-6069-AC					
The Designer(s) of Record shall determine the material and/or work on the project requiring Special Inspections. The Special Inspection requirements shall be based on Section 1704 of the 2009 International Building Code. Any deviations from the requirements of Section 1704 must be approved by OSE.						
MATERIAL	TYPE OF INSPECTION	AREA/ BLDG	SPEC. SECTION			
109.3.1 Footing or foundation inspection	Footing and foundation inspections shall be made after excavations for footings are complete and any required reinforcing steel is in place. For concrete foundations, any required forms shall be in place prior to inspection. Materials for the foundation shall be on the job, except where concrete is ready mixed in accordance with ASTM C 94, the concrete need not be on the job.					
109.3.2 Concrete slab or under-floor inspection	Concrete slab and under-floor inspections shall be made after in-slab or under-floor reinforcing steel and building service equipment, conduit, piping accessories and other ancillary equipment items are in place, but before any concrete is placed or floor sheathing installed, including the subfloor.					
109.3.4 Frame inspection	Framing inspections shall be made after the roof deck or sheathing, all framing, fireblocking and bracing are in place and pipes, chimneys and vents to be concealed are complete and the rough electrical, plumbing, heating wires, pipes and ducts are approved.					
S406.6.6 Inspection of fill.	Placement of the fill material shall be inspected by the code official.					
M107.1 Mechanical Required Inspections						
M107.1.1 Underground Inspection	Underground inspection shall be made after trenches or ditches are excavated and bedded, piping installed, and before backfill is put in place. When excavated soil contains rocks, broken concrete, frozen chunks and other rubble that would damage or break the piping or cause corrosive action, clean backfill shall be on the job site.					
P107.1 Plumbing Required Inspections						
P107.1.1 Underground Inspection	Underground inspection shall be made after trenches or ditches are excavated and bedded, piping installed, and before any backfill is put in place.					
Electrical Required Inspections						
Underground Inspection	Underground inspection shall be made after trenches or ditches are excavated and bedded, conduit installed, and before backfill is placed. Also, inspection of all building grounding connections shall be observed before backfill.					
MATERIAL	TYPE OF INSPECTION	FREQUENCY	SPECIFICATION REFERENCE	INSPECTION BY		
				Arch.	Eng.	Other
Concrete	Rebar Placement	(Periodic)	033000, par 3.17			X
	Verify Use of Design Mix	(Periodic)	033000, par 3.17			X
	Sample Slump, Air, Temperature	(Continuous)	033000, par 3.17			X
	Concrete Placement	(Continuous)	033000, par 3.17			X
	Curing	(Periodic)	033000, par 3.17			X
	Verification of In-Situ Strength via Compressive Testing of Cylinders	(Periodic)	033000, par 3.17			X
	Inspection of Embedded Anchors	(Periodic)				
	Inspection of Formwork for Shape Location & Dimensions	(Periodic)				
Structural Steel	Verifications of High-Strength Bolts/Washers	(Periodic)	051200, par 2.1.F			X
	Inspection of High-Strength Bolting	(Periodic)	051200, par 3.5.F			X
	Verifications of Structural Steel Materials		051200, par 2.1			X
	Verification of Weld Filler Materials		051200, par 2.1.H			X
	Inspection of Structural Steel Welding:					
	a)Complete & Partial penetration groove	(Continuous)	051200, par 3.5.G			X
	b)Multi-pass fillet welds	(Continuous)	051200, par 3.5.G			X
	c)Single-pass fillet welds >5/16"	(Periodic)	051200, par 3.5.G			X
	d)Single-pass fillet welds <5/16"	(Periodic)	051200, par 3.5.G			X
	Details such as Bracing and Stiffening	(Periodic)	(Periodic)			
Member Locations	(Periodic)	IBC Ref 1704.3.2				
	Application of Joint Details at Each Location	(Periodic)				
Steel Deck	Inspection of Roof Deck Materials	(Periodic)	053100, par 3.5.A			X
	Deck Attachments	(Periodic)	053100, par 3.5.B			X
Soil	Verification of Materials Below Shallow Foundation are Adequate to Achieve the Design Bearing Capacity.	(Periodic)				
	Verify Excavations are Extended to Proper Depth and Have Reached Proper Material.	(Periodic)				
	Perform Classification and Testing of Compacted Fill Materials.	(Periodic)				
	Verify Use of Proper Materials, Densities and Lift Thickness during Placement and Comparing of Compacted Fill.	(Continuous)				
	Prior to Placement of Compacted Fill, Observe Subgrade and Verify that Site has been Prepared Properly.	(Periodic)				

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NEW YORK, NY 10018
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BID PACKAGE 2:
STRUCTURE
DECEMBER 09, 2011

PHASE :

[illegible]

KEY PLAN & NORTH SIGN

USE CODE TABLES
&
SUPPLEMENTAL CODE
INFORMATION

SHEET TITLE :

A0120.2
SHEET NUMBER :

1

2

3

4

5

6

GENERAL NOTES:

1. FENCE TYPES :
FENCE TYPE 1: "STANDARD DRIVEN POSTS WITH FABRIC"
FENCE TYPE 2: "BLOCK AND PANEL FENCING WITH FABRIC"
2. RELOCATE FENCING AS REQUIRED BY PROGRESS OF WORK AND APPROVED BY CM.
3. FENCING AS SHOWN HAS BEEN PROVIDED BY USC. REMOVAL AT END OF PROJECT BY USC.
4. ANY ADDITIONAL FENCING REQUIRED BY CONTRACTOR SHALL BE RESPONSIBILITY BY CONTRACTOR.
5. CONTRACTOR SHALL MAINTAIN SITE SECURITY AT ALL TIMES.

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

PROJECT NAME:
UNIVERSITY OF SOUTH CAROLINA
DARLA MOORE SCHOOL OF BUSINESS CONSTRUCTION
STRUCTURE

OSE PROJECT NUMBER:
H27-6069-AC-2
743 GREENE STREET
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 5860 FAX: 212 924 5858

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

TELECOMMUNICATIONS, AUDIOVISUAL & ACOUSTICS:
JAFFE HOLDEN ACOUSTICS, INC.
114A WASHINGTON STREET
NORWALK, CT 06854-3007
TEL: 203 838 4167 FAX: 203 838 4168

LANDSCAPE ARCHITECT:
GRIMBALL-COTTERILL ASSOCIATES
600 BELTLINE BOULEVARD
COLUMBIA, SC 29205
TEL: 803 738 9525 FAX:

SURVEYOR:
BP BARBER & ASSOCIATES, INC.
101 RESEARCH DRIVE
COLUMBIA, SC 29202-1116
TEL: 803 429 4028 FAX:

BUILDING CODE:
HUGHES ASSOCIATES
3610 COMMERCE DRIVE, SUITE 817
BALTIMORE, MD 21227-1652
TEL: 410 737 8077 FAX: 410 737 8688

LIGHTING DESIGNER:
ONE LUX STUDIO, LLC
39 WEST 13TH STREET
NEW YORK, NY 10011
TEL: 212 201 5792 FAX: 212 615 3700

FOOD & WASTE MANAGEMENT:
WILLIAM CARUSO & ASSOCIATES, INC.
8055 EAST TURF AVE, SUITE 1520
DENVER, CO 80231
TEL: 303 649 1600 FAX: 303 649 1660

SIGNAGE & WAYFINDING:
RAFAEL VINOLY ARCHITECTS PC
50 VANDAM STREET
NEW YORK, NY 10013
TEL: 212 924 5860 FAX: 212 924 5858

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

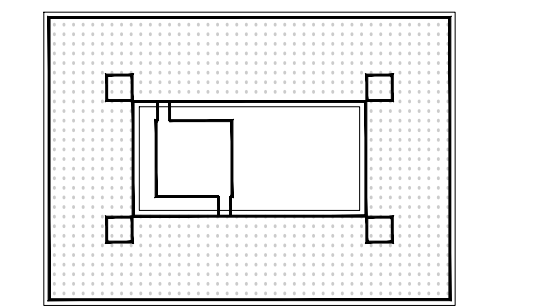
BID PACKAGE 2:
STRUCTURE
DECEMBER 09, 2011

PHASE :

FOR REFERENCE ONLY

SEAL & SIGNATURE

2011.12.09	2011.11.30	2011.11.16	2011.10.19	2011.10.12	2011.08.05	2011.07.22	2011.07.14	2011.05.27	2011.05.17	2011.04.29	2011.05.05
ISSUE NO.	ISSUE NO.	ISSUE NO.	ISSUE NO.	ISSUE NO.	ISSUE NO.	ISSUE NO.	ISSUE NO.	ISSUE NO.	ISSUE NO.	ISSUE NO.	ISSUE NO.
DATE	DATE	DATE	DATE	DATE	DATE	DATE	DATE	DATE	DATE	DATE	DATE



KEY PLAN & NORTH SIGN

1" = 30'

TEMPORARY CONSTRUCTION
FENCING

SHEET TITLE :

A0202B

SHEET NUMBER :

FOR REFERENCE ONLY



03



02

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TEMPORARY CONSTRUCTION
FENCING ELEVATIONS

SHEET TITLE :

A0203

SHEET NUMBER :

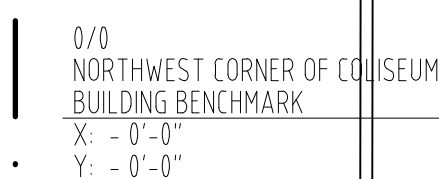
SHEET TITLE : _____

A0302

SHEET NUMBER : _____



FOR REFERENCE ONLY



A0401
SHEET NUMBER :

SMOKE PARTITIONS TO BE PROVIDED WITH SMOKE RESISTANT DOORS,
SAFETY GLAZING AS REQUIRED AND SMOKE STOPPING.

PLUMBING FIXTURE CALCULATION NOTES:
 NOTE 1: 1 PER 25 FOR THE FIRST 50 AND 1 PER 50 FOR THE REMAINDER EXCEEDING 50
 NOTE 2: 1 PER 40 FOR THE FIRST 80 AND 1 PER 80 FOR THE REMAINDER EXCEEDING 80
 * INCLUDING (6) WATER COOLERS IN BREAKROOMS/KITCHENETTES





































03

02

NOTE:
[1] 2HOUR RATED CEILING ASSEMBLY

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

SEAL & SIGNATURE

					
					
	2011.12.09				
	2011.11.30				
	2011.11.08				
	2011.11.03				
	2011.09.28				
	2011.09.09				
	2011.08.05				
	2011.07.22				
	2011.04.04				
	2011.02.09				
ISSUE NO.	ISSUE DATE	ISSUE NO.	ISSUE DATE	ISSUE NO.	ISSUE DATE


$$1/16'' = 1' - 0''$$

SHEET TITLE :

A0700
SHEET NUMBER :