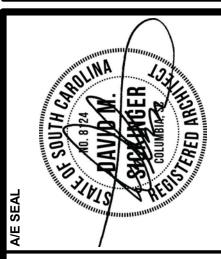
UNIVERSITY OF SOUTH CAROLINA FOUNDERS PARK PLAYER'S LOUNGE AND MEDIA ROOM ADDITION 431 WILLIAMS STREET COLUMBIA, SOUTH CAROLINA 29201 21 SEPTEMBER 2016 University Project Number: H27-Z285 Architect's Project Number: U426.16 **LOCATION MAP** MANEUVERING CLEARNACES **CODE INFORMATION** PROJECT DESIGNED IN ACCORDANCE WITH TITLE SHEET, CODE ANALYSIS INTERNATIONAL BUILDING CODE (IBC), 2015 EDITION INTERNATIONAL EXISTING BUILDING CODE (IEBC), 2015 EDITION TITLE SHEET, INDEX TO DRAWINGS INTERNATIONAL FIRE CODE (IFC), 2015 EDITION & Design No. (UL, FM, etc) INTERNATIONAL ENERGY CONSERVATION CODE (IECC), 2009 Edition (in hours) INTERNATIONAL FUEL GAS CODE (IFGC), 2015 EDITION Structural Frame ARCHITECTURAL (per IMB Table 601) ENTRY LEVEL FLOOR PLAN, DEMOLITION PLAN, ENLARGED PLAYERS LOUNGE PLAN Bearing Walls INTERNATIONAL PRIVATE SEWAGE DISPOSAL CODE (IPSDC), 2015 EDITION (per IBC Table 601) REFLECTED CEILING PLANS, CEILING DETAILS Nonbearing Walls PARTITION TYPES, EXTERIOR WALL TYPES HINGE SIDE APPROACHES Note: The IUWIC does not supersede existing statutory requirements. INTERIOR ELEVATIONS, PARTITION SECTIONS, DETAILS - LOUNGE (per IBC Table 601 & 602) Floor Construction including supporting beams & joists STANDARD FOR BLEACHERS, FOLDING AND TELESCOPING SEATING, AND GRANDSTANDS, ICC (per IBC Table 601) SECTION DETAILS Roof Construction including STATE OF supporting beams & joists NATIONAL ELECTRICAL SAFETY CODE, IEEE-C2-2012 EDITION SCHEDULED INTERIOR FINISHES, FINISH PLANS, FINISH SCHEDULE, CASEWORK DETAILS SOUTH CAROLINA (per IBC Table 601) AMERICAN NATIONAL STANDARDS INSTITUTE, INC. (ANSI) - A117.1 - 1998, ACCESSIBLE AND USABLE CASEWORK ELEVATIONS, SECTIONS & DETAILS Fire Walls (per IBC Section 706) 9. SOUTH CAROLINA ELEVATOR, CODE, & REGULATIONS - LATEST EDITION Fire Barriers GOVERNOR'S EXECUTIVE ORDER NO. 82-19 (April 1982) - STATE OF SC BUILDING STANDARDS II (per IBC Section 707) UL U905 GENERAL NOTES, SPECIAL INSPECTIONS AND LOAD TABLE NEW MEDIA ROOM FLOOR FRAMING & ROOF FRAMING PLAN 22. THE SOUTH CAROLINA MODULAR BUILDING CONSTRUCTION ACT S.C. CODE § 23-43-10 et. Seq. Shaft Enclosures (per IBC Section 713) MATERIAL DESIGNATIONS Fire Partitions ENTRY LEVEL FLOOR PLAN, PLAYERS' LOUNGE DEMO & RENOVATION PLANS (per IBC Section 708) CLUB LEVEL FLOOR PLAN, ENLARGED MEDIA ROOM PLAN AT ALL DOORS. CONTRACTOR SHALL REVIEW FIELD LAYOU AND CONFIRM THAT ALL OF THE APPROPRIATE CLEARANCE DETAILS, NOTES, SCHEDULES, AND LEGEND Opening & Protective Listing by per IBC Section 715) POROUS FILL (STONE OR GRAVEL) THE ARCHITECT'S ATTENTION SHALL BE AT THE Others (as required by Designer) ENTRY LEVEL FLOOR PLAN, DEMO PLAN, ENLARGED PLAYERS LOUNGE PLAN CLUB LEVEL FLOOR PLAN, ENLARGED MEDIA ROOM PLAN, ROOF PLAN, GENERAL NOTES, SCHEDULE, AND LEGEND TABLE 5-1 FLOOD HAZARD INFORMATION and FLOOD LOADS ENTRY LEVEL FLOOR PLAN, CLUB LEVEL FLOOR PLAN, ENLARGED PLAYERS LOUNGE CONCRETE MASONRY UNIT (CMU) BATT INSULATION TABLE 5-9 STRUCTURAL DESIGN INFORMATION PLAN, ENLARGED MEDIA ROOM PLAN, AND NOTES LATCH SIDE APPROACHES N/A - NO SITEWORK GYPSUM BOARD LIVE LOADS SAND, PLASTER, CEMENT, GROUT RIGID INSULATION **ELECTRICAL NOTES & LEGENDS** TABLE 5-2 SOILS & SITE **ELECTRICAL PANEL SCHEDULES** Floor Live Loads F_{II} = PSF PSF List the Fu for each occupancy **ELECTRICAL PANEL SCHEDULES** $F_{\parallel} = 100 \text{ PSF } ?????????$ N/A - NO SITEWORK OVERALL PLANS **ENTRY LEVEL ELECTRICAL PLANS** CLUB LEVEL ELECTRICAL PLANS **ELECTRICAL ELEVATIONS & DETAILS** TABLE 5-3 BASIC BUILDING CODE INFORMATION Ground Snow Load $P_{g} = 10$ PSF IBC Figure 1908.2 (or ACSE 7) ABBREVIATIONS ARCHITECTURAL SYMBOLS CONSTRUCTION CLASSIFICATION Analysis Procedure ASCE 7 ASCE 7 or IBC 1609.6 A-5, B, A-3 (accessory), S-2 Basic Wind Speed V_{3S}= 115 MPH 3 sec gust IBC Fig 1609 **ANGLE** (Note IBC 506.5)` Exposure Category I_w = <u>1.15</u> ASCE 7 (Table 6.1) Wind Importance Factor OCCUPANCY GROUP (indicate most restrictive) ABOVE FINISH FLOOR $GC_{ni} = +/-0.18$ ASCE 7 Internal Pressure Coefficient ALUM ALUMINUM <u>ALTERNATE WALL SECTION REFERENCE</u> $GC_0 = +0.8, -0.5$ ASCE 7 External Pressure Coefficient ARCHITECTURAL Does building require Incidental Use Area A1.1 SCALE: 1'-0" = 1'-0" BLKG BLOCKING SEISMIC LOADS - WALL SECTION / DETAIL NUMBER **BUILT- UP ROOF** Does building have Accessory Occupancy(ies)? | no | X yes | (IBC 508.2) WHERE WALL SECTION / DETAIL IS SHOWN LOCATION OF DETAIL CONTROL JOINT What percent of story is accessory occupancy? CUT (AS SHOWN) CLG CTR Mapped Spectral Response Accelerations TOP = TOP HALF OF WALL FOR PARTICULAR LEVEL — WHERE DETAIL IS SHOWN no X yes (IBC 508) Design Spectral Response Acceleration Parameters CENTER $S_{DS} = 0.409$ $S_{D1} = 0.213$ CONC BOT = BOTTOM HALF OF WALL FOR PARTICULAR CONCRETE Seismic Use Group _ ASCE 7 (Seismic Occupancy Category IBC) CMU CONCRETE MASONRY UNIT no X yes (IBC 508.3) Non separated Seismic Design Category CONT CONTINUOUS PLAN DETAIL REFERENCE Basic Seismic Force Resisting System DIAMETER Existing special reinforced masonry shear walls per section 1103 if the International Existing Building Code DOWN SPOUT - WALL SECTION / DETAIL NUMBER **EXTERIOR** - WHERE WALL SECTION / DETAIL IS Seismic Response Coefficient(s) $C_s = 0.100$ **EXIST EXISTING** Response Modification Factor(s) $R = \underline{5}$ EACH OTHER FIRE PROTECTION SYSTEMS, DEVICES or FEATURES **EXPANSION JOINT** - DETAIL NUMBER SIM = SIMILAR CONDITION If the building has any special or notable fire protection or safety feature or hazard the designers should list ARCHITECTURAL-MECHANICAL-ETC. LOADS Provide as applicable: architectural items, ELECTRICAL OH = OPPOSITE HAND CONDITION - WHERE DETAIL IS SHOWN them here, describe the performance characteristics and refer to locations in construction documents. ELEVATION mechanical, plumbing, etc. per ASCE) OPP = OPPOSITE HAND CONDITION (e.g. fire extinguishers, smoke- evacuation/control/compartments. Note IBC 414.1.3.) **ELEVATOR** ROT = ROTATED CONDITION SEISMIC LOADS Provide as applicable: architectural items, EQUIP **EQUIPMENT** WALL SECTION / DETAIL SECTION moving loads, impact, hoisting, etc. per ASCE) ELECTRIC WATER COOLER FIRE RATED WALL SYMBOLS *per IBC Chapter 16 and ASCE 7 -- Information may be shown on initial Structural Sheet of the drawings FLOOR DRAIN TABLE 5-4 BUILDING AREA — WALL SECTION / DETAIL NUMBER FACE OF FINISH or on Sheet with other code information FACE OF STUD - WHERE WALL SECTION / DETAIL IS SHOWN ONE-HOUR FIRE-RATED WALL ASSEMBLY N/A - BUILDING AREA IS NOT BEING AFFECTED FIRE RETARDANT FIELD VERIFY TABLE 5-10 PLUMBING INFORMATION ROOM TAG SYMBOL TWO-HOUR FIRE-RATED WALL ASSEMBLY GYPSUM WALL BOARD N/A - NO ADDITIONAL PLUMBING BEING ADDED RECEPTION - ROOM NAME GYPSUM BOARD TABLE 5-5 BUILDING HEIGHT FOUR-HOUR FIRE-RATED WALL ASSEMBLY 100 ──── ROOM NUMBER **HOLLOW METAL** N/A - BUILDING HEIGHT IS NOT BEING AFFECTED HORIZONTAL TABLE 5-12 MEACHANICAL INFORMATION SEE PARTITION TYPES FOR UL DESIGN NO'S. HVAC **DOOR SYMBOL** INSIDE DIAMETER Overall Thermal Transfer Value (OTTV): 2.88 BTU/HR SQ FT (ROOF), 10.39 BTU/HR SQ FT (WALL) EXPANSION JOINT TYPE TABLE 5-6 BUILDING DESIGN OCCUPANT LOAD 001A) — DOOR NUMBER **Building Heating Load** _25.8 ____ BTU / SF LAVATORY Building Cooling Load — FRAME TYPE N/A - OCCUPANT LOAD DOES NOT CHANGE MECH MAXIMUM BRICK VENEER / CMU CONTROL JOINT OTHER LOADING FEATURES MFR MECHANICAL Window to wall ratio 9.02% MANUFACTURER Exterior Walls 0.057 TOILET / LOCKER ROOM ACCESSORY MINIMUM _400____ CFM 13'-4" Outside Air minimum while occupied MASONRY OPENING TABLE 5-7 GENERAL FIRE PROTECTION REQUIREMENTS DIMENSION TO FACE OR EDGE NOT IN CONTRACT MECHANICAL SYSTEMS, SERVICE SYSTEMS & EQUIPMENT NTS SEPARATIONS Rooftop packaged heat pump. NOT TO SCALE ON CENTER GYPSUM BOARD CONTROL JOINT X no yes per IBC Section 718 Fireblocking Required (The above data shall be considered a minimum and any special attribute required to meet the mechanical codes.) OUTSIDE DIAMETER DIMENSION TO CENTERLINE OPENING X no yes per IBC Section 718 Draftstopping Required OPPOSITE Smoke Control System Required no X yes per IBC Section 909 ◆ EL 14'-0" FIN FLOOR ELEVATION ABOVE SEA LEVEL TABLE 5-13 ELECTRICAL INFORMATION per IBC Section 407 and 408 Smoke Barriers Required X no ges PLATE, PROPERTY LINE SERVICE TRANSFORMER X By Utility Co. By Agency PRESSURE TREATED per IBC Section 407 and 408 Smoke Partitions Required REQD _____ KVA Primary _____ Voltage/Phase WINDOW / STOREFRONT / CURTAIN WALL / LOUVER TYPE ORIENTATION OF CUT PLANE Fire Partition Required X no yes per IBC Section 708 REQUIRED ELECTRICAL SERVICE INFORMATION per IBC Section 707 4000 Amperes EXISTING 1A PARTITION TYPE Service Entrance Conductors Size 500 KCMIL Quantity per Phase 10 EXISTING ALARM & DETECTION SQUARE FEET Total Connected Load _-_ KVA ADDING 60 kva TO EXISTING SIMILAR _--_ KVA CONNECTED 2500kva SPECIFICATIONS Estimated Maximum Demand Fire Alarm System Required per IFC Section 907 FIRE EXTINGUISHER RECESSED IN WALL CABINET STAINLESS STEEL Available Fault Current in Symmetrical Amperes <u>EXISTING</u> Emergency Alarm System Required per IFC Section 908 STANDARD Interrupting Capacity of Service Overcurrent Device EXISTING SUSP STRUCTURAL FIRE EXTINGUISHER MOUNTED ON WALL BRACKETS GROUNDING ELECTRODE SYSTEM COMPONENTS: SUPPRESSION (NEC 250) TOS **REVISION SYMBOL** SUSPENDED Existing grounded rod, water pipes, structural steel TOW TOP OF STEEL EMERGENCY SERVICE INFORMATION EXISTING FD - FLOOR DRAIN Standpipes Requires per IFC Section 905 TOP OF WALL Emergency Generator No X Yes 500 KVA Voltage/Phase 480/3PH DEISEL Fuel TYPICAL no X yes per IFC Section 903 CLOUD AROUND REVISION Sprinklers Required UNLESS NOTED OTHERWISE Exit/Emergency Lights Backup Power ☐ Integral Battery ☐ X Generator VERTICAL Sprinklers Provided no X yes <u>UILDING SECTION REFERENCE</u> Fire Alarm System X Manual Automatic X Addressable Class A X Class B VINYL COMPOSITION TILE Portable Extinguishers required no X yes per IFC Section 906 LIGHTENING PROTECTION PROVIDED No X Yes Existing System WATER CLOSET - BUILDING SECTION NUMBER per IFC Section 904 Other suppression systems required X no yes WATER RESISTANT - WHERE BUILDING SECTION IS SHOWN COMMUNICATIONS COORDINATED Contact DSIT Network/Infrastructure Planning for EXTERIOR WALL / ROOF CONSTRUCTION TYPE WELDED WIRE FABRIC Smoke & heat vents required per IFC Section 910 applicability at (803) 896-0001 Other: (Indicate other provided fire and life safety features not listed above, if any) X Not Required Yes

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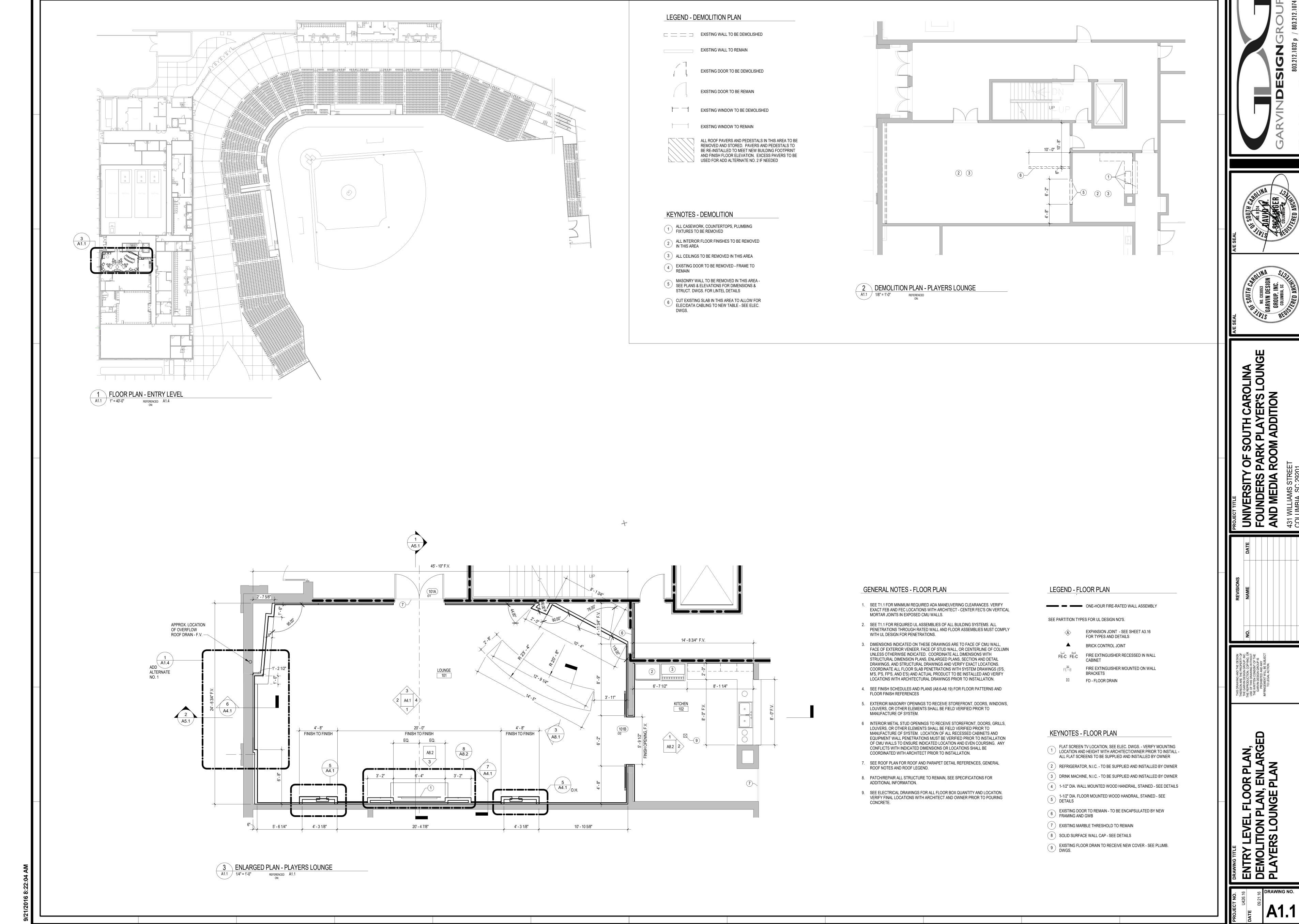
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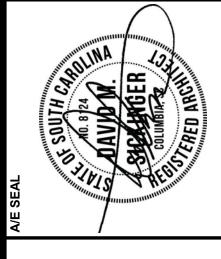
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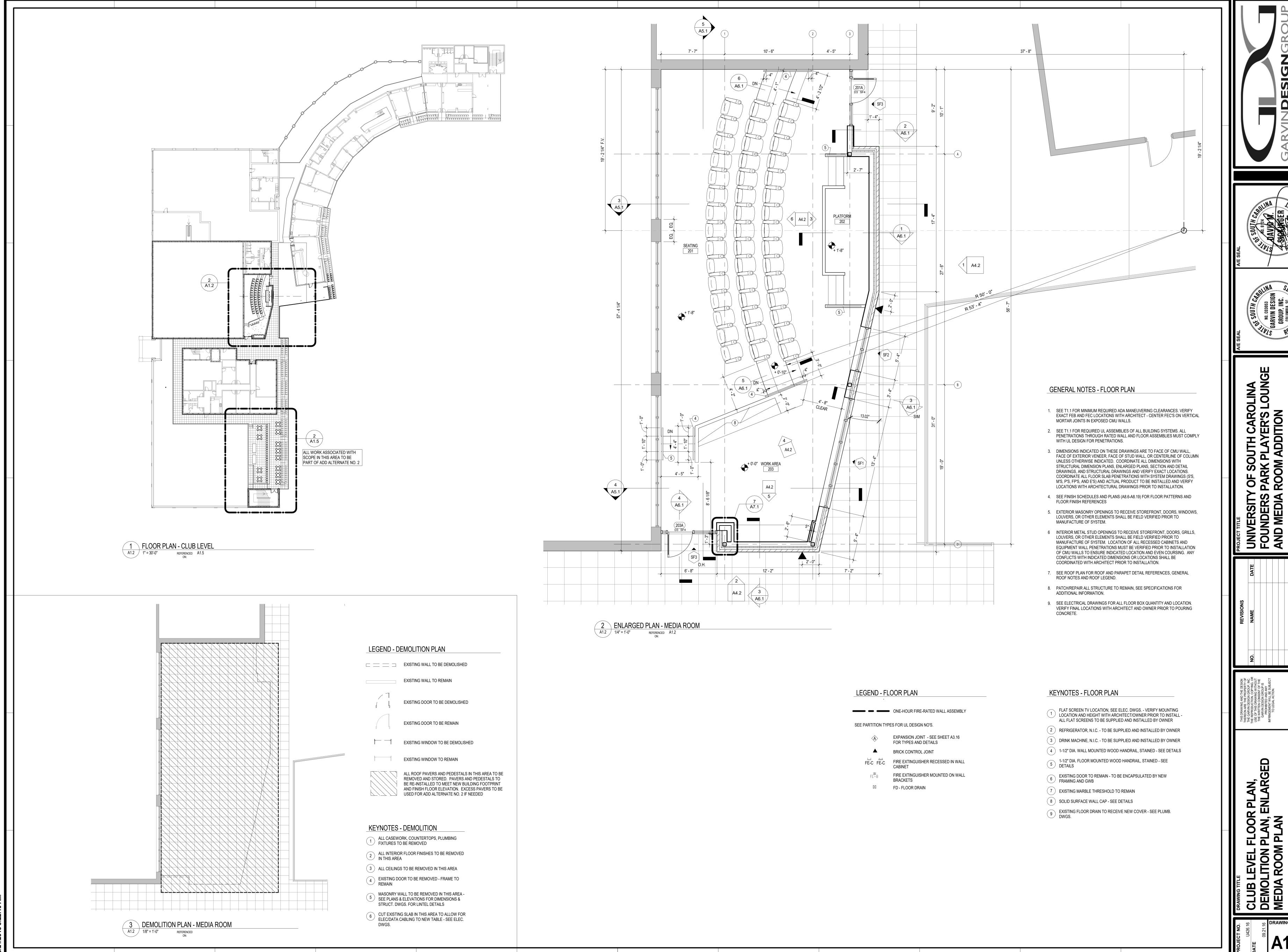
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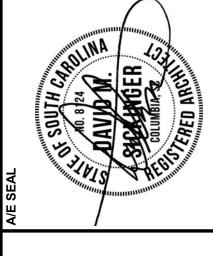
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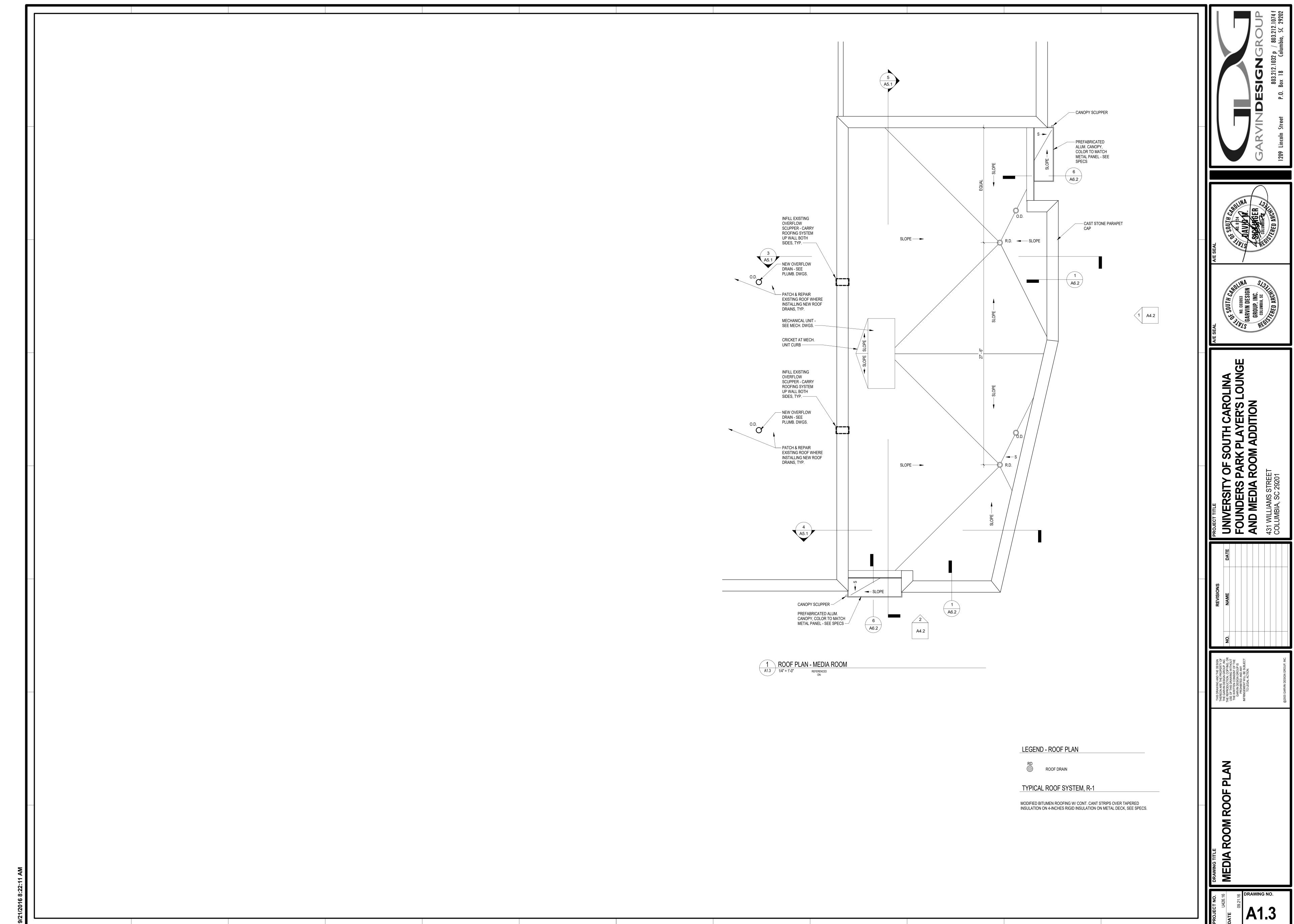


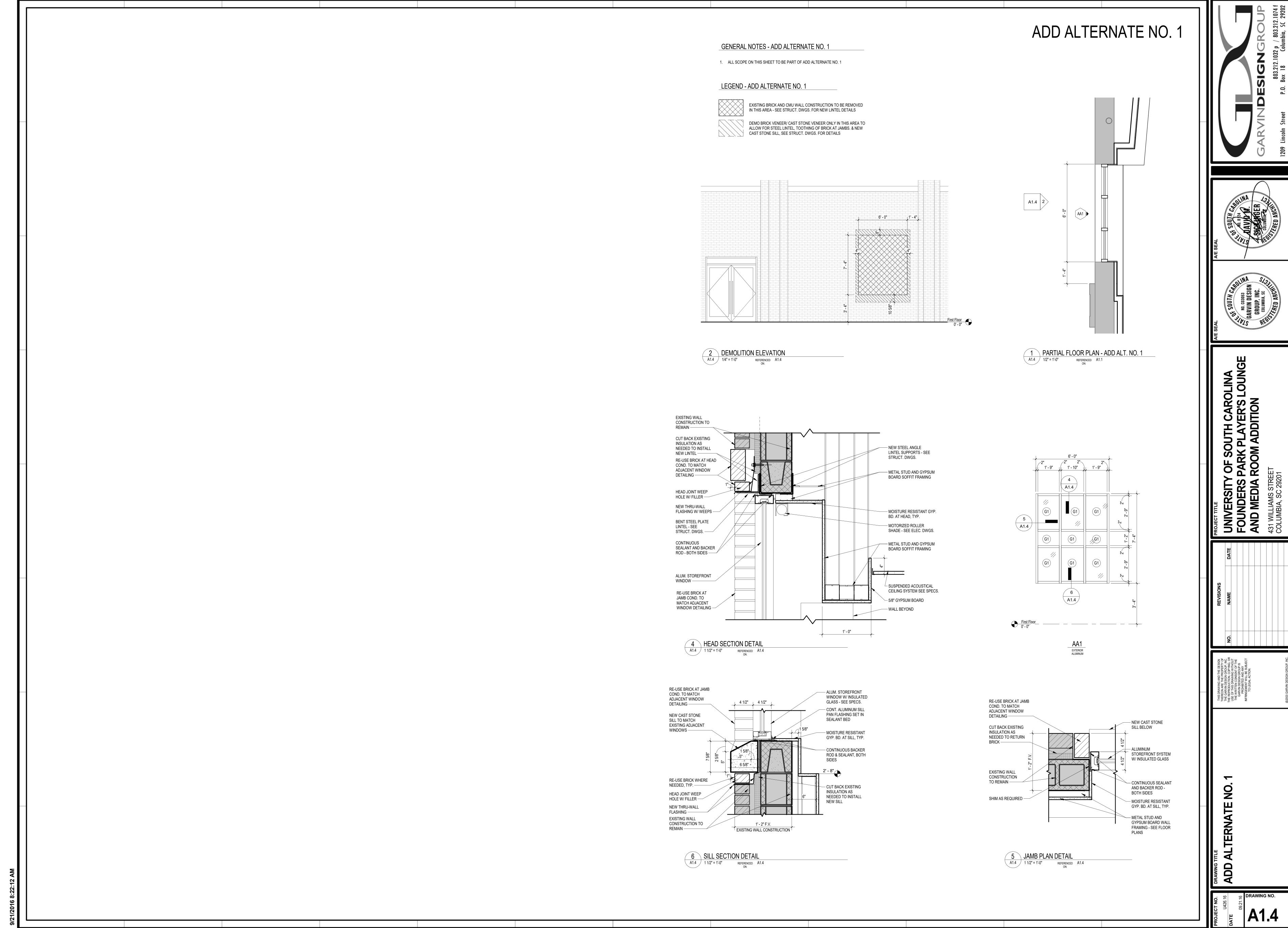






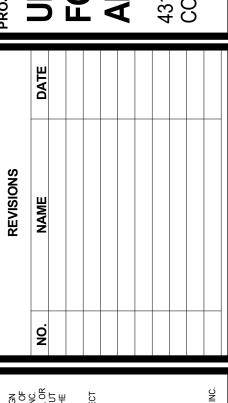


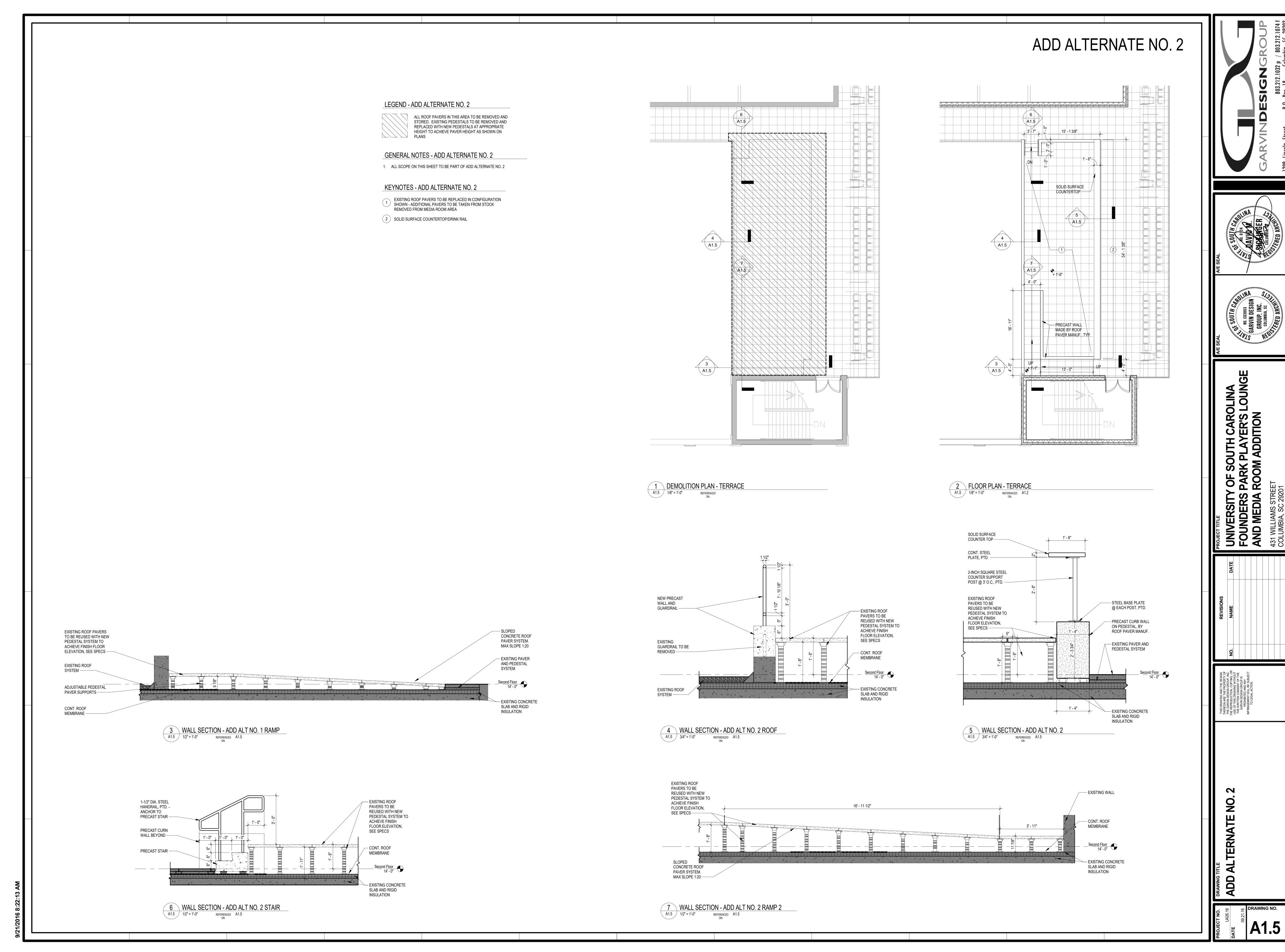


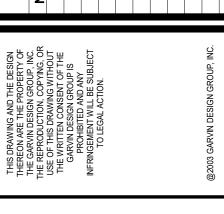


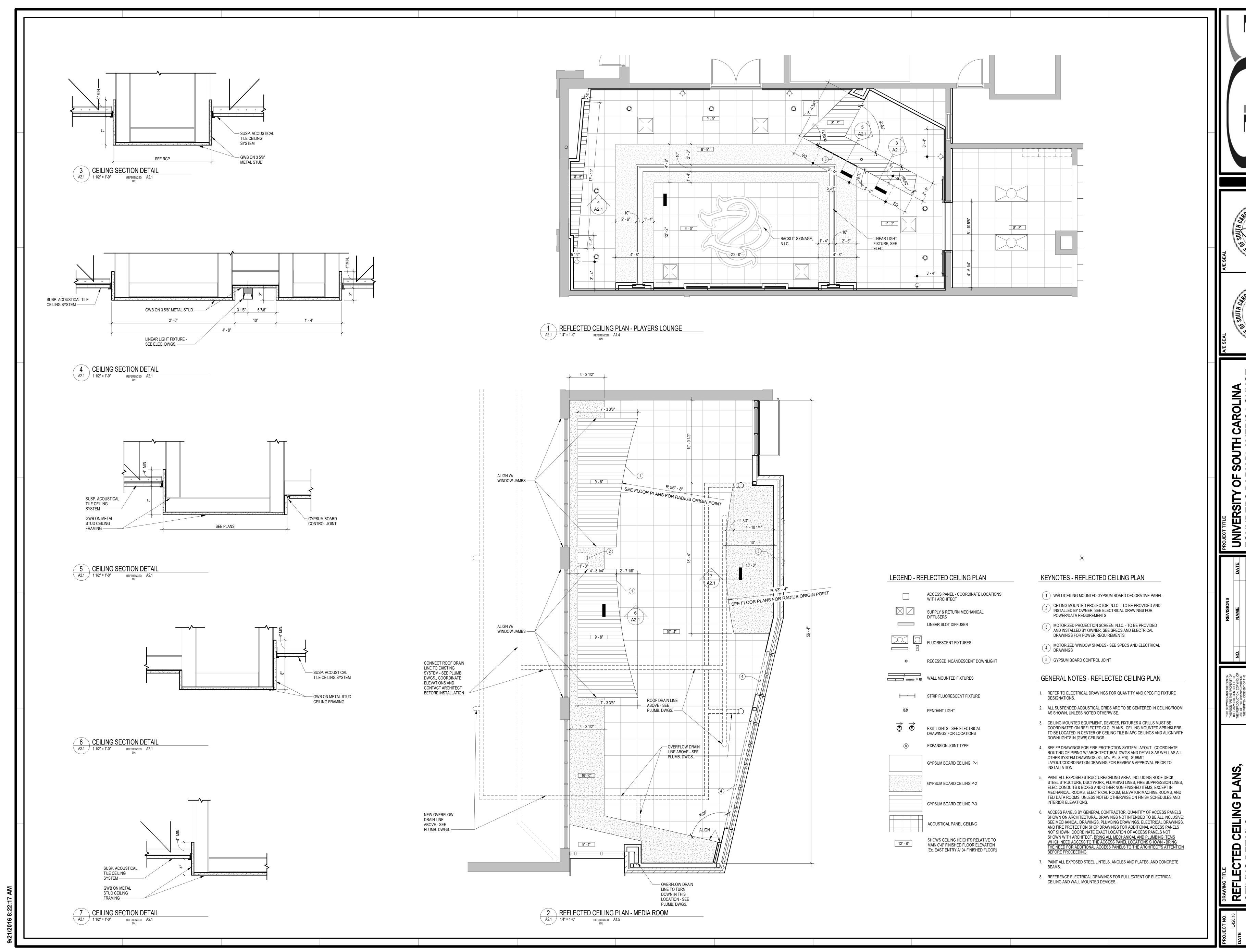


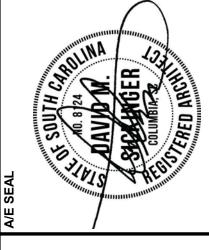








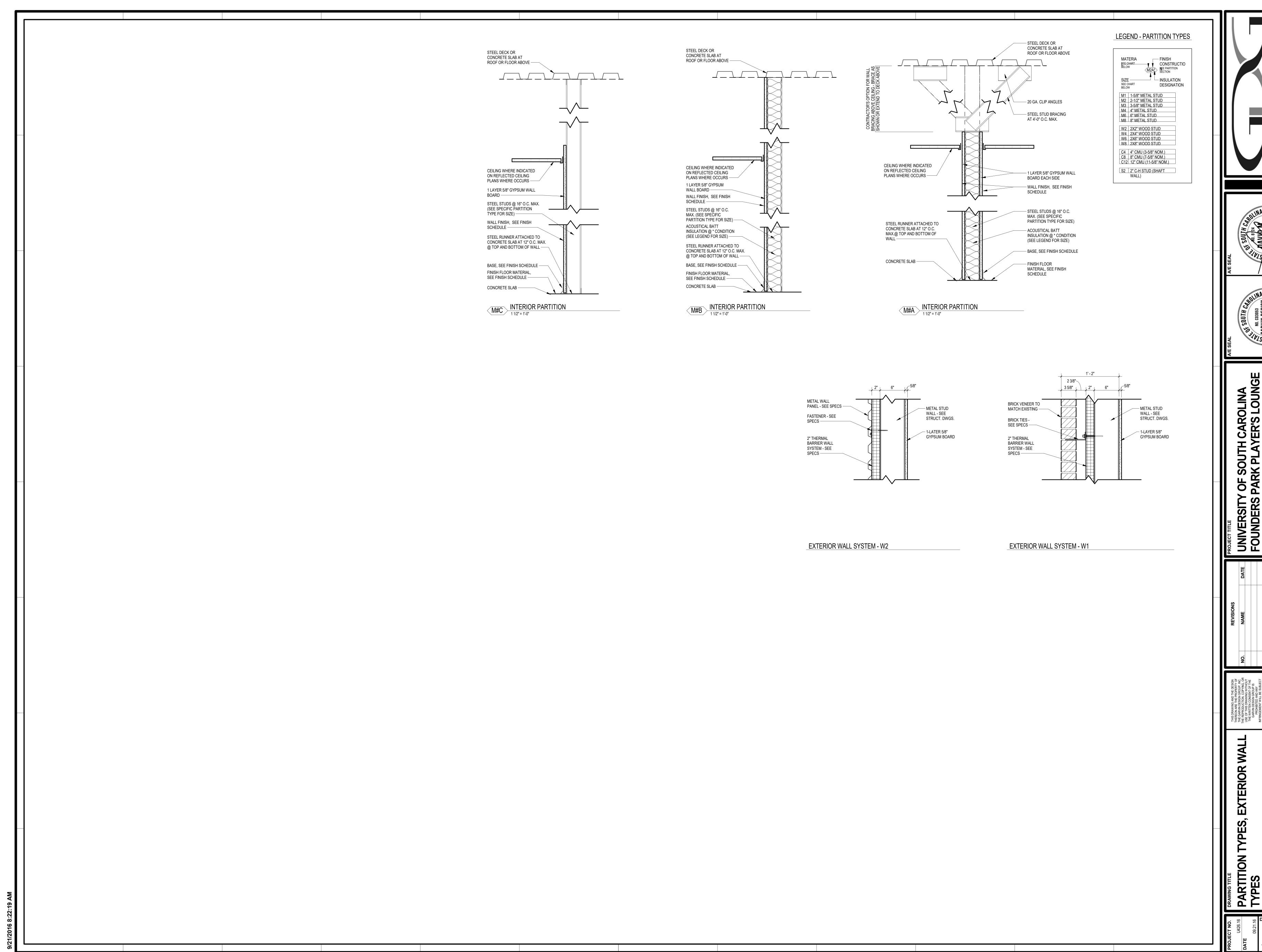


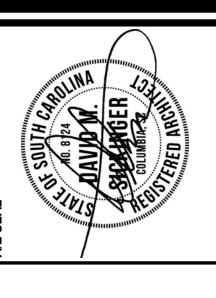


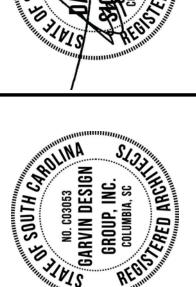




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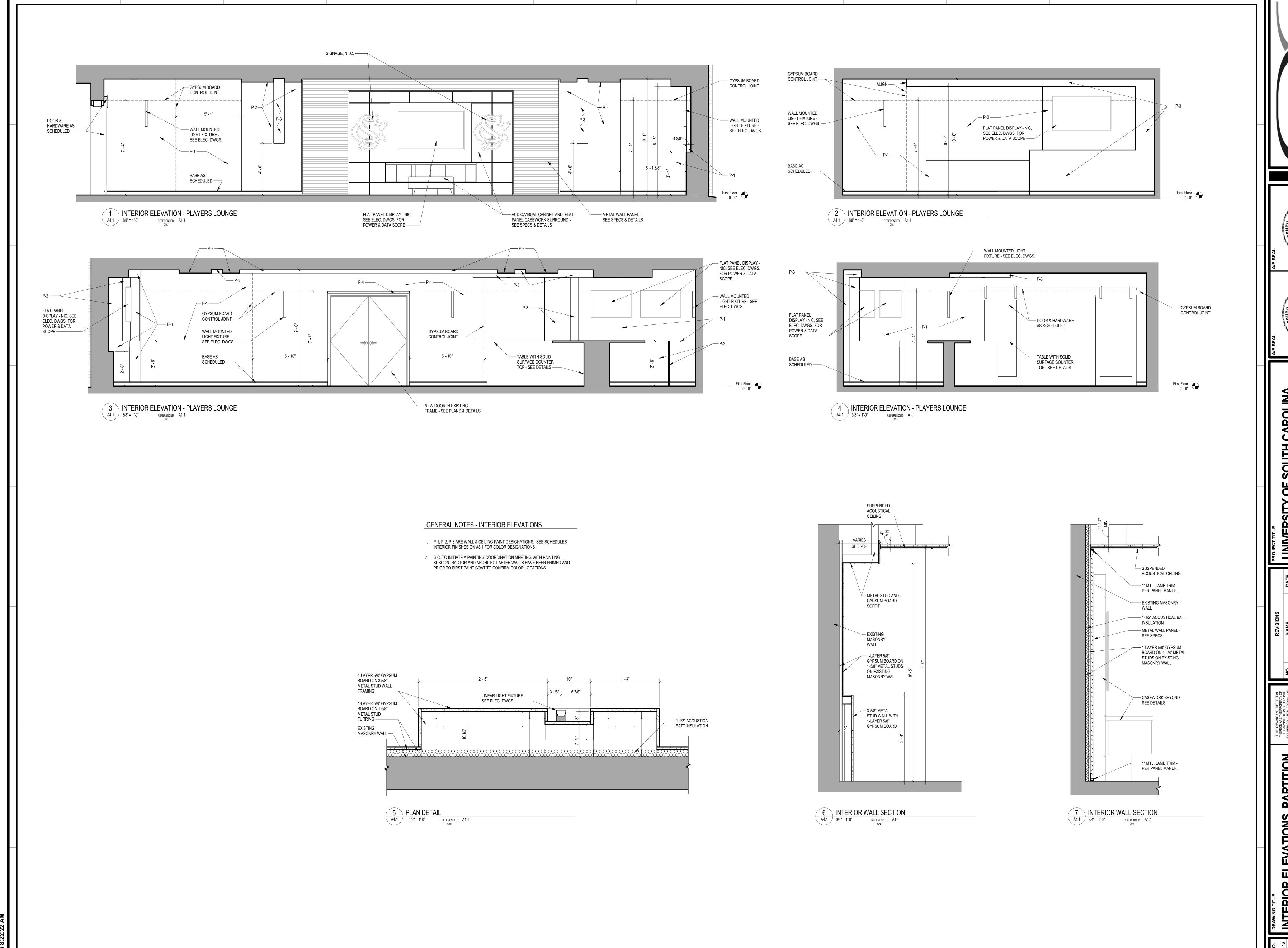


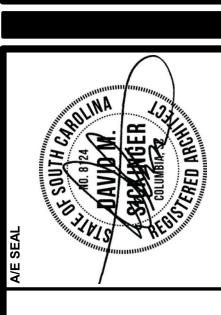


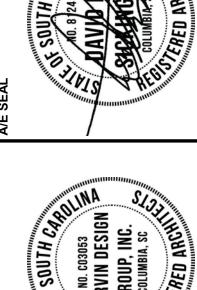




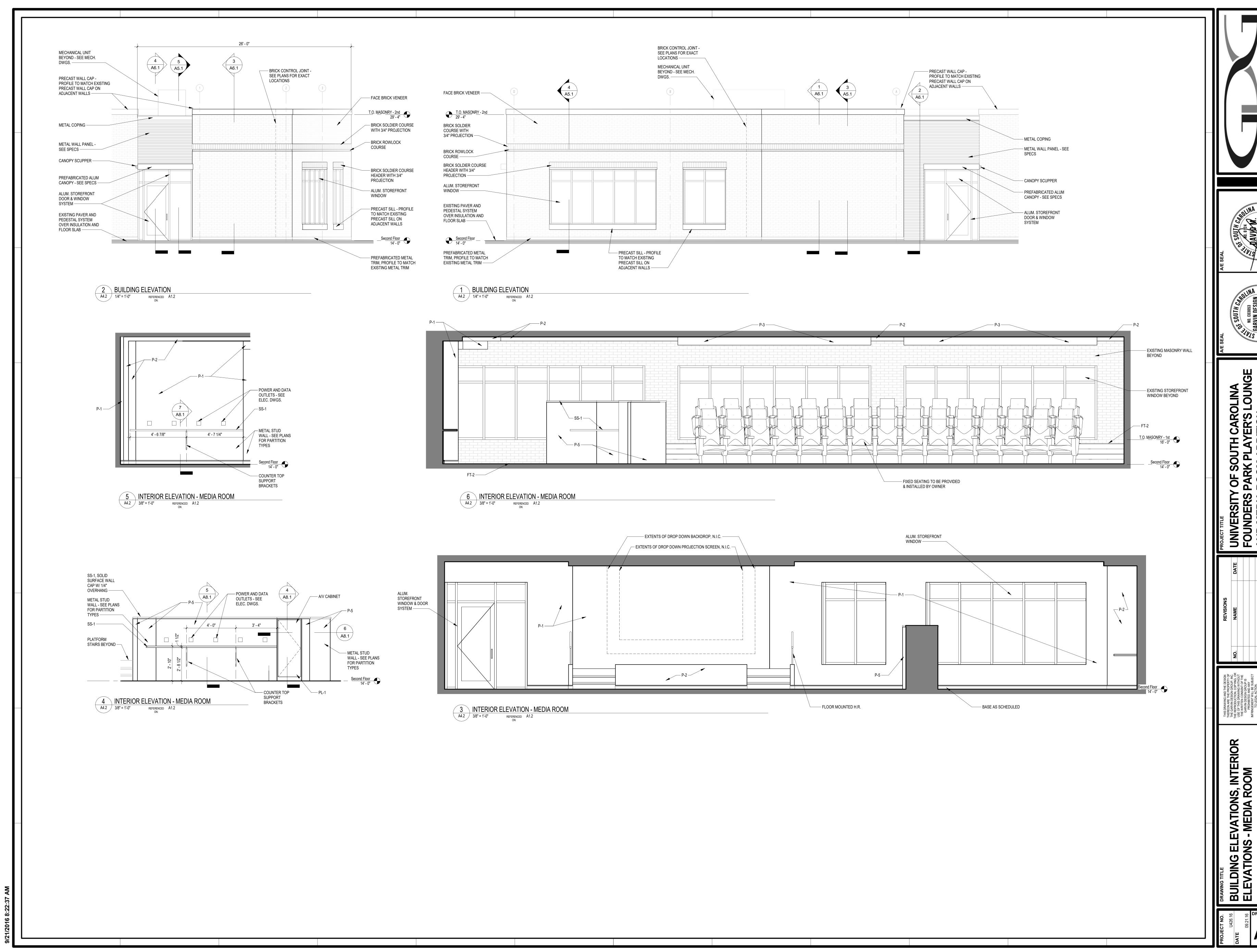


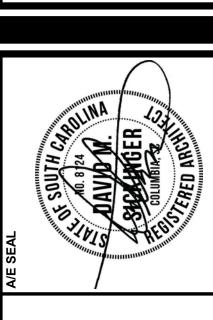


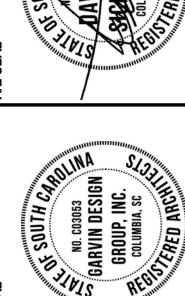




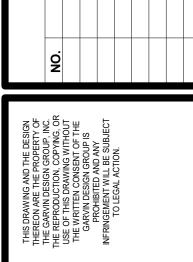


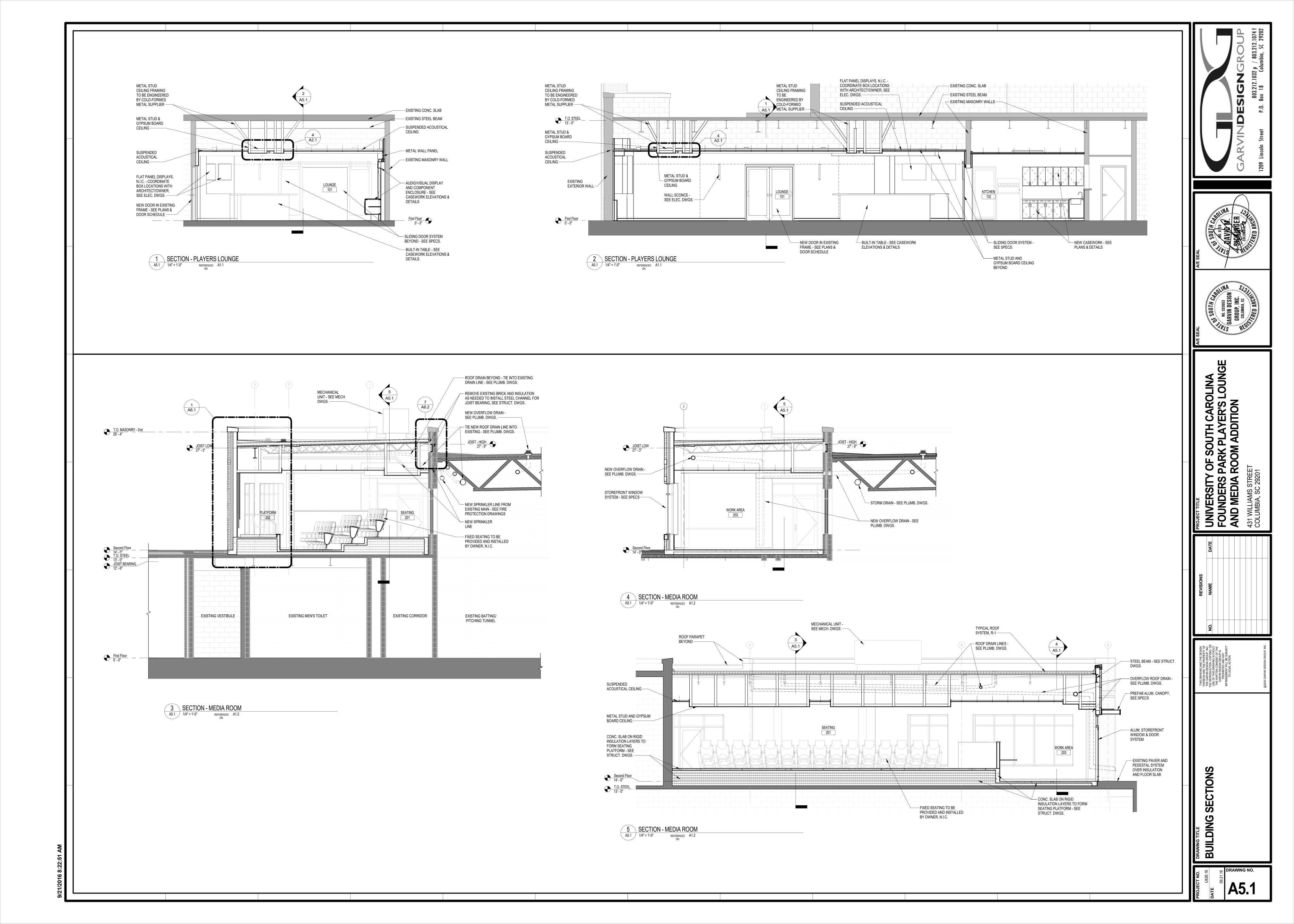


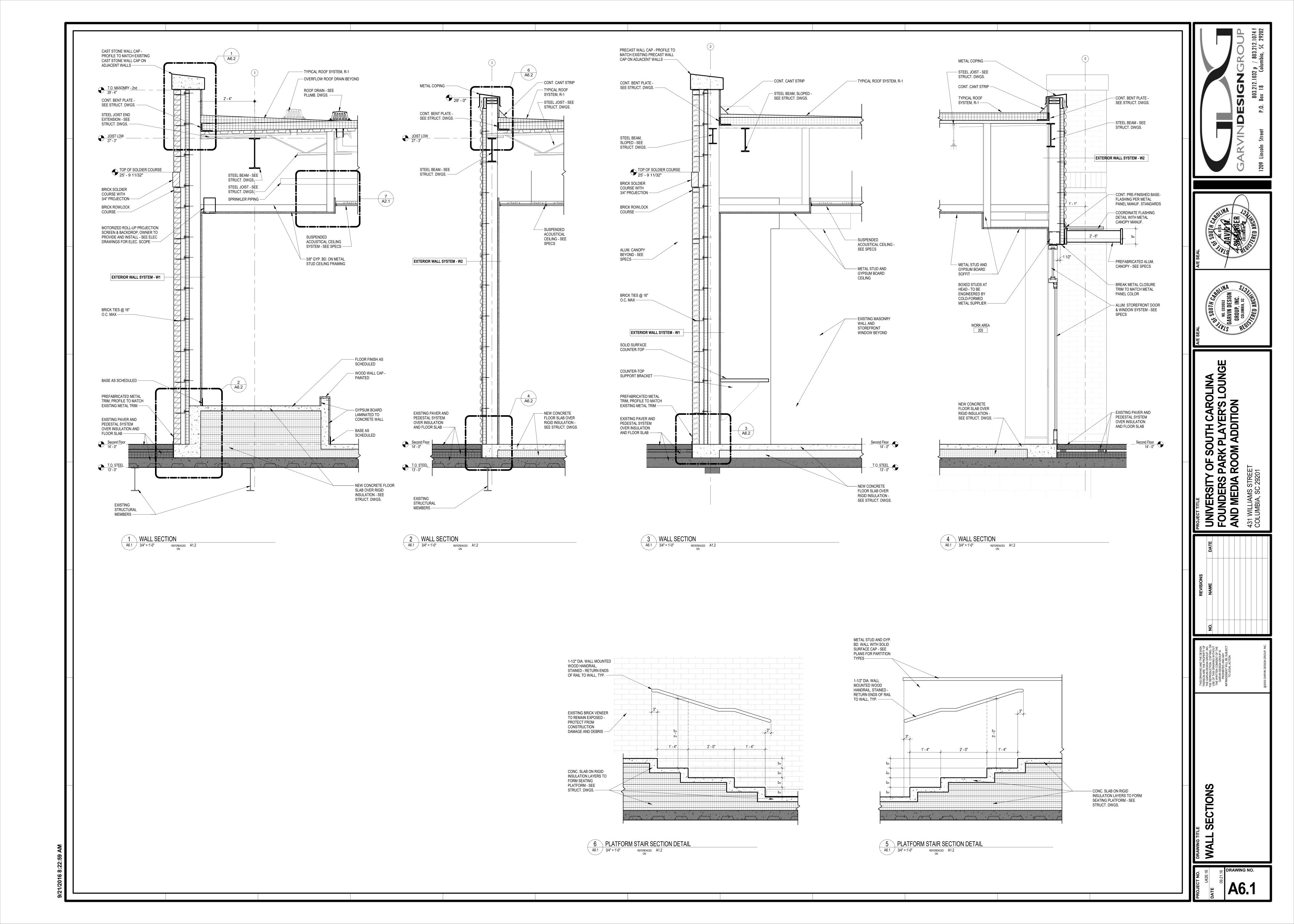


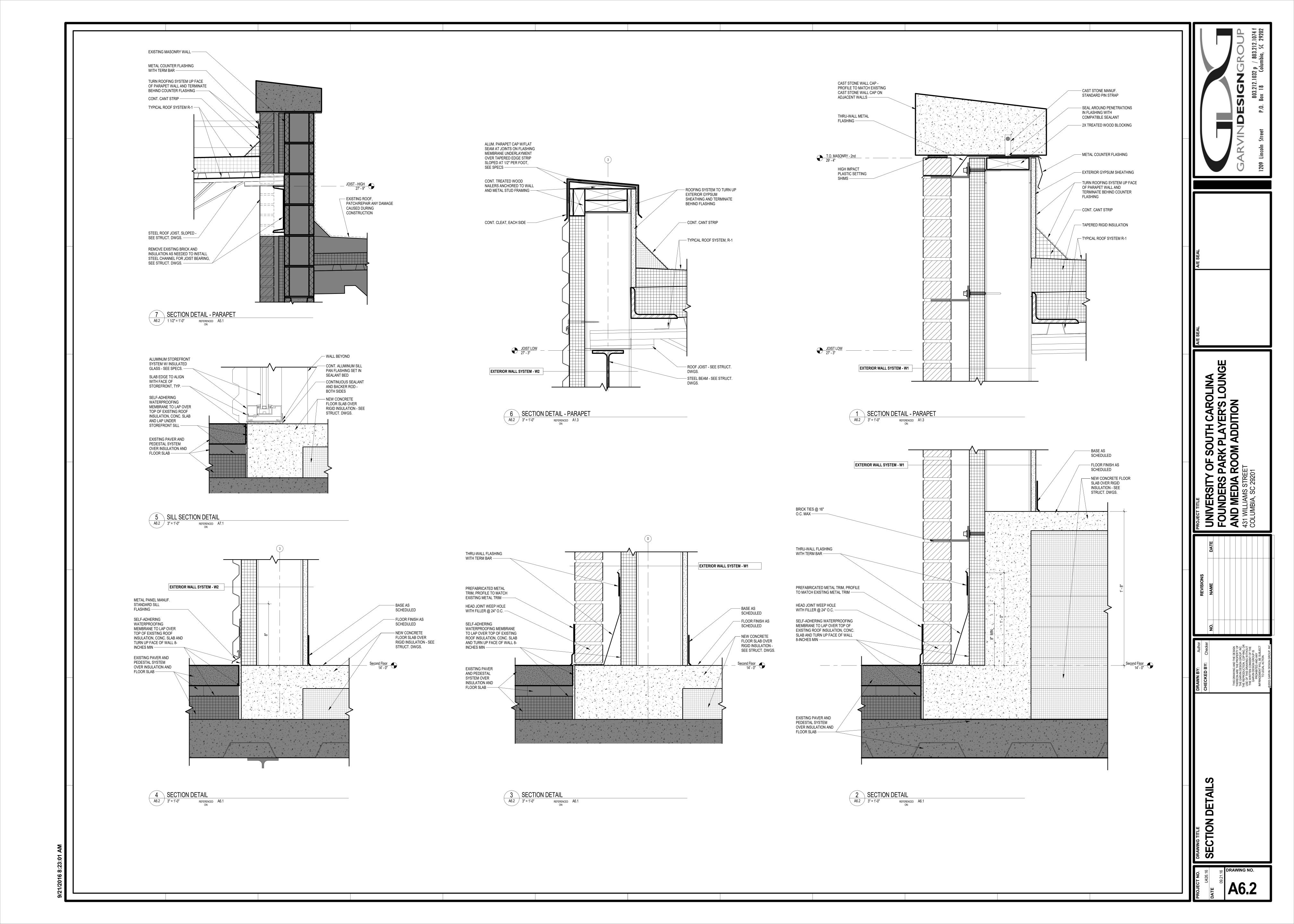


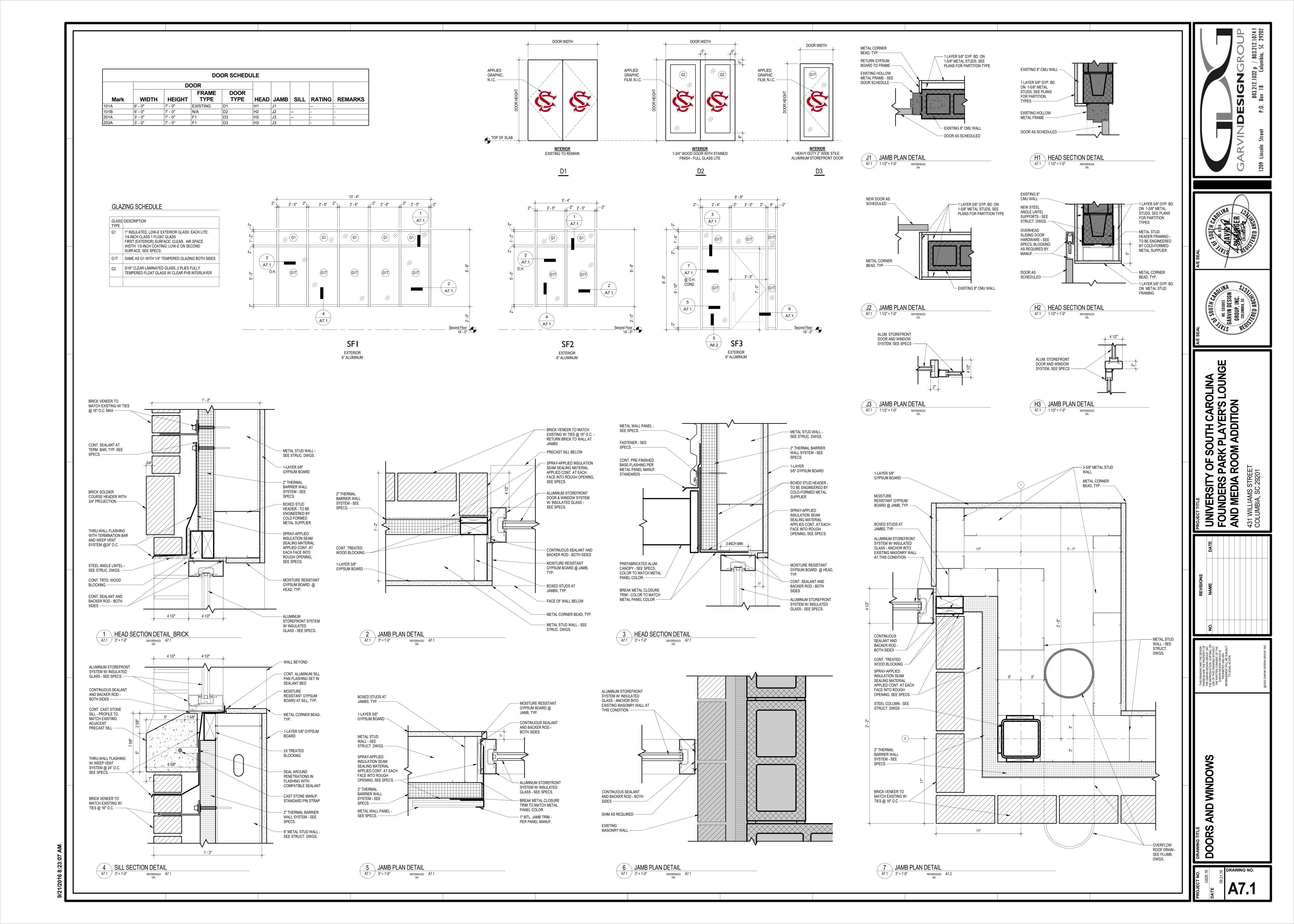


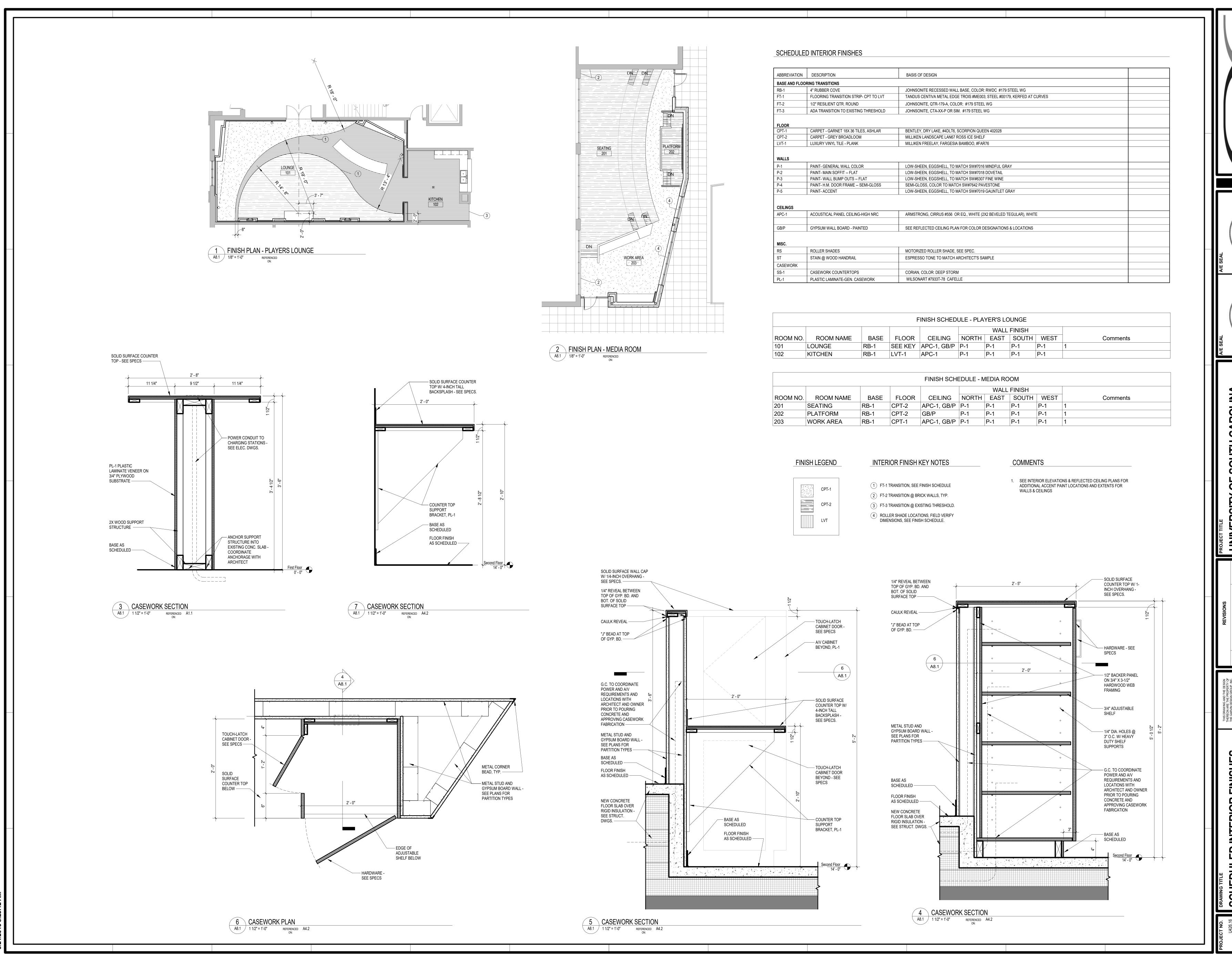


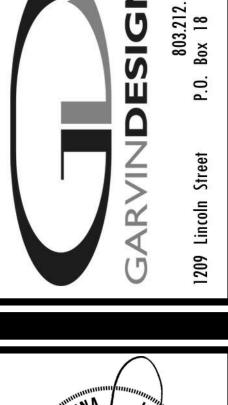


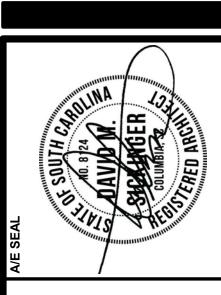


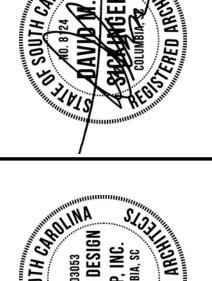


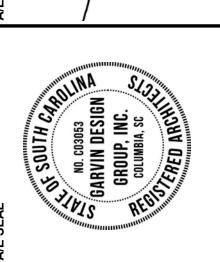




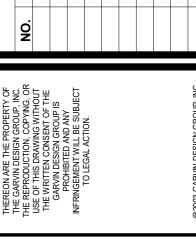




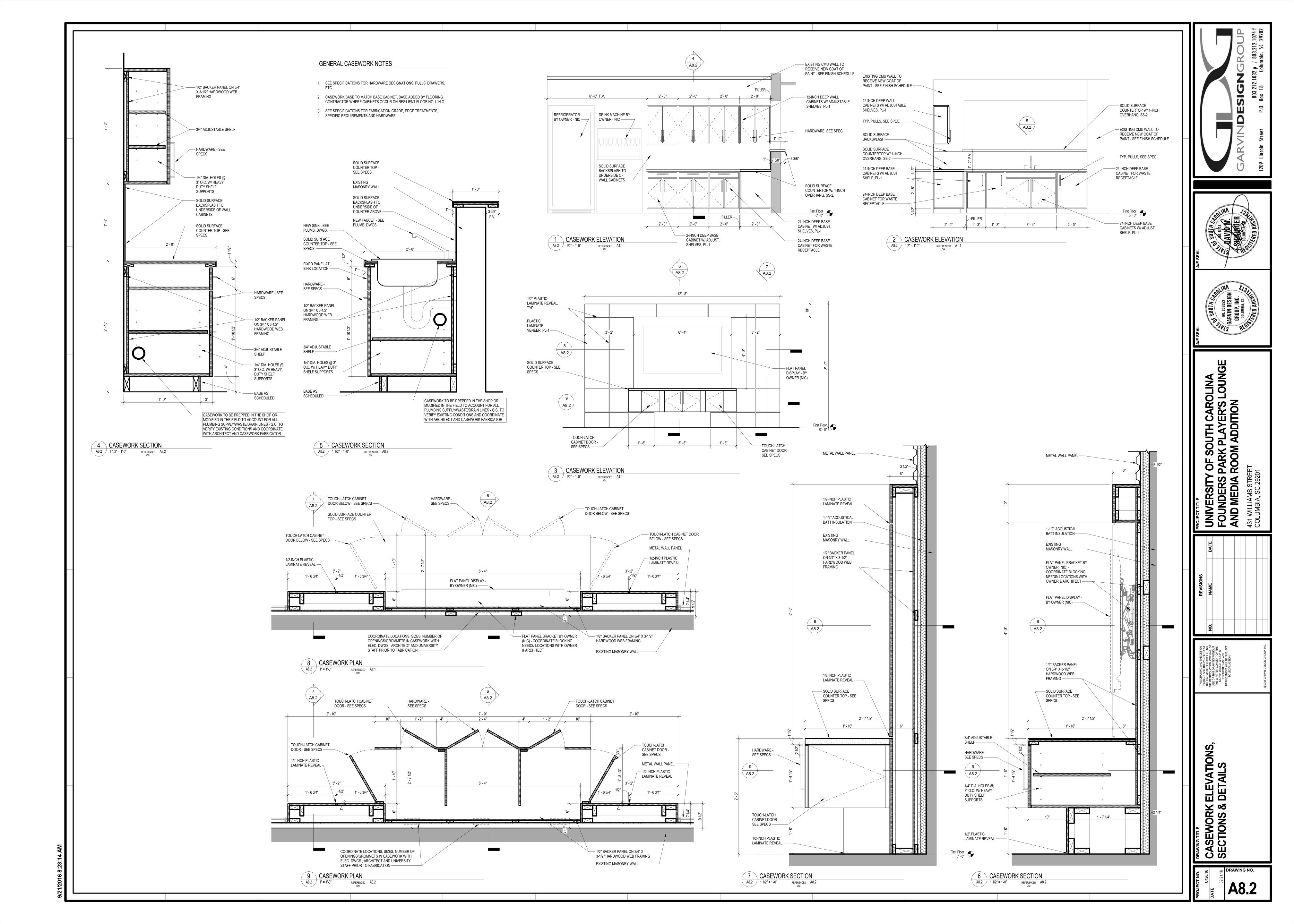


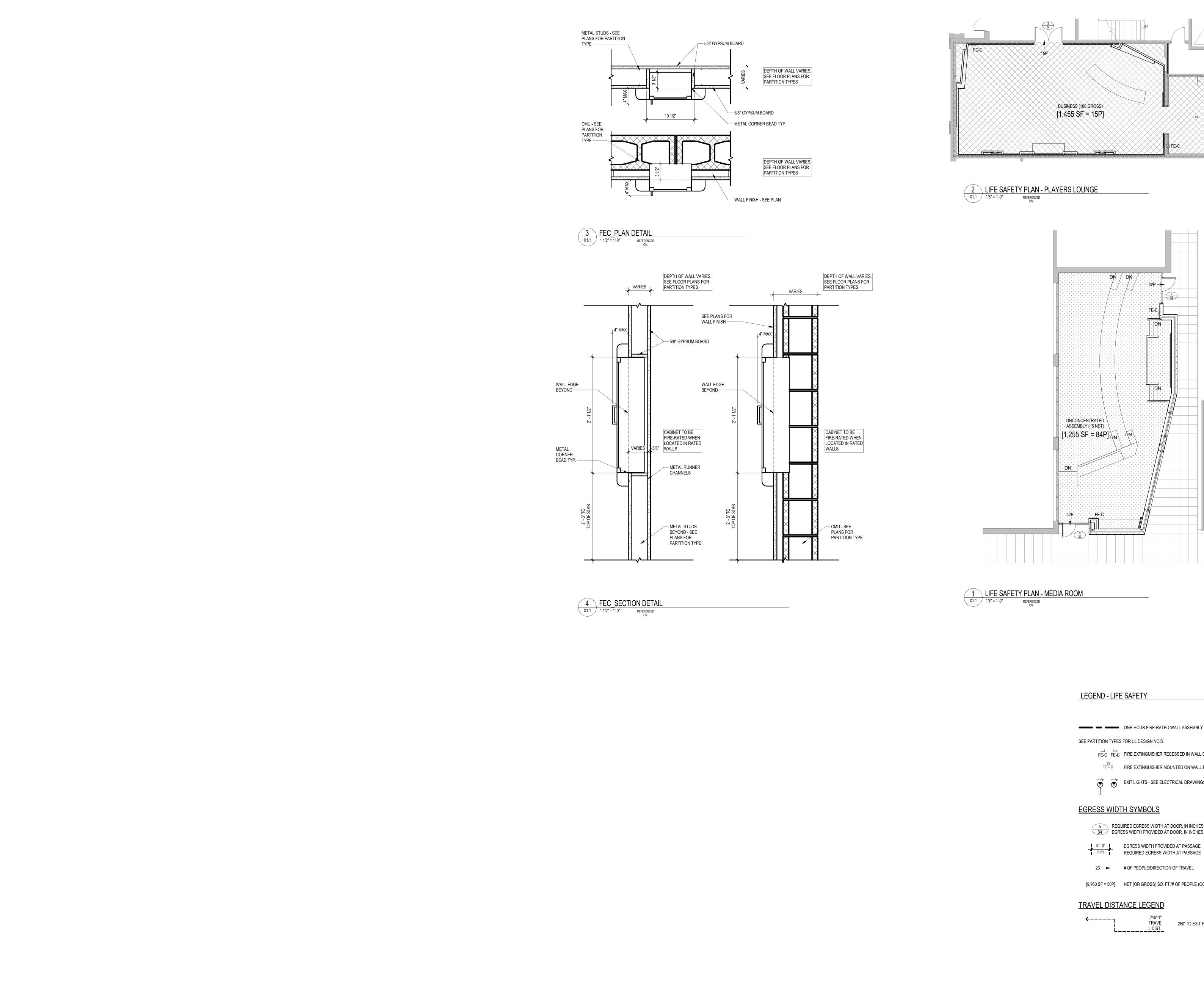


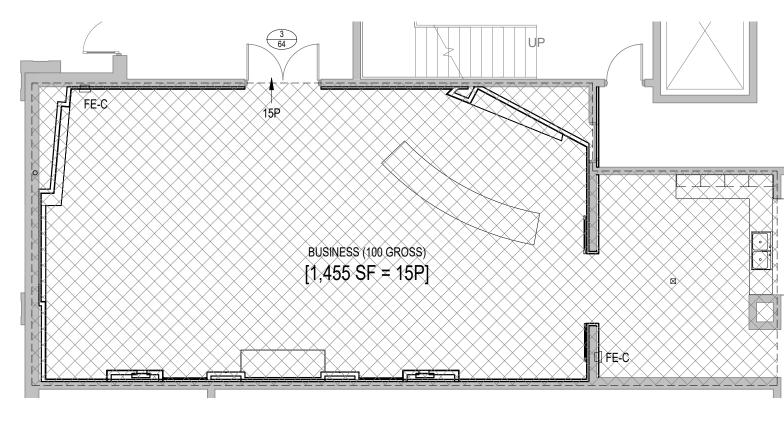


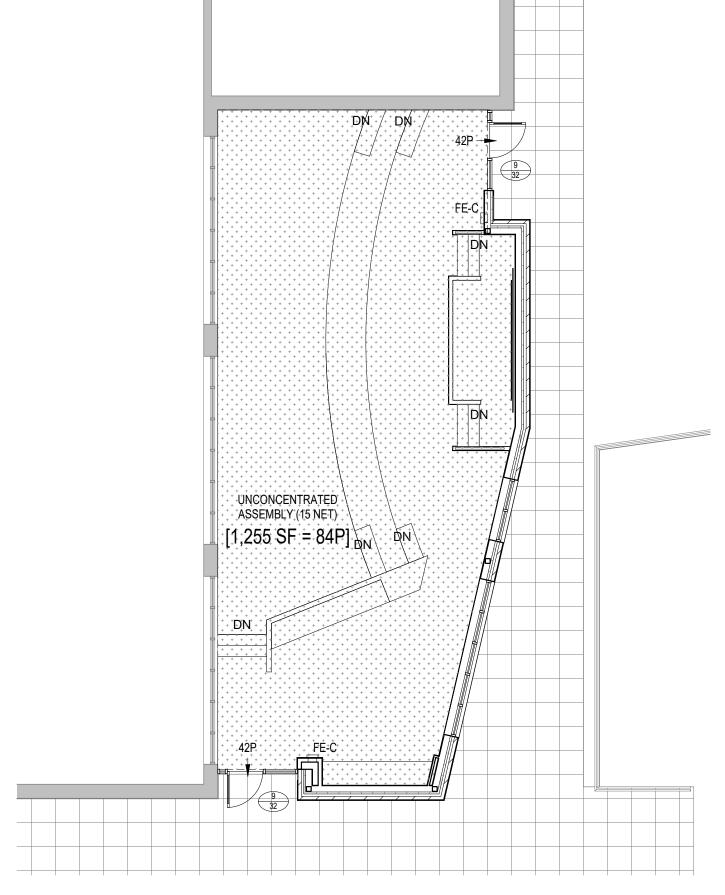


SCHEDULED INTERIOR FINISHES, FINISH PLANS, FINISH SCHEDULE CASEWORK DETAILS









ONE-HOUR FIRE-RATED WALL ASSEMBLY

SEE PARTITION TYPES FOR UL DESIGN NO'S.

FE-C FE-C FIRE EXTINGUISHER RECESSED IN WALL CABINET FE-B FIRE EXTINGUISHER MOUNTED ON WALL BRACKETS

EXIT LIGHTS - SEE ELECTRICAL DRAWINGS FOR LOCATIONS

EGRESS WIDTH SYMBOLS

REQUIRED EGRESS WIDTH AT DOOR, IN INCHES EGRESS WIDTH PROVIDED AT DOOR, IN INCHES

23 — # OF PEOPLE/DIRECTION OF TRAVEL

[9,960 SF = 50P] NET (OR GROSS) SQ. FT./# OF PEOPLE (OCCUPANCY OF SPACE)

TRAVEL DISTANCE LEGEND

250' TO EXIT FROM REMOTE CORNER

STRUCTURAL/GENERAL NOTES:

THE NOTES PRESENTED IN THESE STRUCTURAL DRAWINGS ARE TO PROVIDE THE CONTRACTOR (AND SUBCONTRACTORS) WITH NFORMATION PERTAINING TO THE STRUCTURAL DESIGN FOR THIS PROJECT, SOME NOTES PRESENTED IN THESE DRAWINGS MAY BE DUPLICATED IN SEVERAL SECTIONS. A SPECIFICATIONS BOOK PROVIDED FOR SUPPLEMENTAL INFORMATION. IN THE EVENT OF CONFLICTING (OR MISSING) INFORMATION THE CONTRACTOR SHOULD FAX OR EMAIL A REQUEST FOR INFORMATION (RFI) TO THE APPROPRIATE DESIGNER OF KYZER AND TIMMERMAN. THE LEADER OF THE DESIGN TEAM SHOULD BE COPIED ON THE RFI. THE CONTRACTOR SHOULD ASSUME THE MOST STRINGENT CONDITION UNTIL A RULING IS MADE. THE RESPONSE TIME FOR A PARTICULAR RFI MAY DEPEND ON RESEARCH AND MAY INVOLVE A RESPONSE FROM INDIVIDUALS OUTSIDE THE OFFICE OF KYZER AND TIMMERMAN.

THE STRUCTURAL NOTES FOR THIS PROJECT ARE GENERALLY CATEGORIZED AS TO WORK TRADE, THERE WILL BE INSTANCES IN WHICH STRUCTURAL NOTES WILL PERTAIN TO MULTIPLE TRADES AND DRAWINGS OR INFORMATION PROVIDED BY OTHERS. FOR THIS REASON, THE DETAILS AND NOTES FOUND IN THE CONSTRUCTION DRAWINGS, DOCUMENTS AND SUBMITTALS SHALL BE CLEARLY UNDERSTOOD BY THE CONTRACTOR AND HIS SUBCONTRACTORS PRIOR TO BID DATE AND STARTING WORK, THE GENERAL CONTRACTOR IS RESPONSIBLE FOR MAINTAINING SUPERVISION OVER ALL HIS PERSONNEL AND SUBCONTRACTORS, ADEQUATE EXPERIENCED STAFF BY THE GENERAL CONTRACTOR IS A REQUIREMENT TO MAINTAIN CONTROL OVER HIS SUBCONTRACTORS AND ULTIMATELY THE QUALITY OF THEIR WORK.

3. THE LEAD (ARCHITECTURAL) DRAWINGS SHALL BE CONSIDERED THE ORIGINAL SOURCE FOR THE DIMENSIONING FOR THE PROJECT AND THEREBY WILL NORMALLY TAKE PRECEDENCE OVER THE DRAWINGS BY OTHERS ON THE DESIGN TEAM. THE DIMENSIONS INDICATED IN THESE STRUCTURAL DRAWINGS ARE TO DOCUMENT AND AID THE STRUCTURAL DESIGNER WITH THE DIMENSIONS USED FOR THE BASIC DESIGN OF THE STRUCTURAL SYSTEM, CONSTRUCTION AND DETAILING DIMENSIONS SHALL BE TAKEN (OR DERIVED) FROM THE ORIGINAL SOURCE DRAWINGS BY THE ARCHITECT OR LEAD DESIGNER. KYZER AND TIMMERMAN STRUCTURAL ENGINEERS PROVIDE STRUCTURAL ENGINEERING SERVICES AND SHALL NOT BE CONSIDERED THE LEAD DESIGNER, STRUCTURAL DETAILER OR BUILDING SURVEYOR FOR THIS PROJECT.

4. AS PART OF MEANS AND METHODS, THE CONTRACTOR IS SOLELY RESPONSIBLE FOR THE DESIGN AND ERECTION OF TEMPORARY BRACING AND SHORING AS REQUIRED FOR STABILITY OF THE STRUCTURAL SYSTEM AND STRUCTURAL COMPONENTS DURING ALL PHASES OF CONSTRUCTION. KYZER AND TIMMERMAN ARE NOT PROVIDERS FOR THE DESIGN OF SHORING, SCAFFOLDING, FORMING OR PROJECT SAFETY. THOUGH A REPRESENTATIVE MAY VISIT THE SITE, OUR PERSONNEL ARE NOT HIRED OR TRAINED IN THE PROJECT SAFETY REQUIREMENTS AS REQUIRED BY REGULATIONS OR SPECIFIED BY THE CONTRACTOR AND/OR HIS SAFETY OFFICER(S). MEANS AND METHODS ARE SOLELY THE RESPONSIBILITY OF THE GENERAL CONTRACTOR.

5. IT IS THE CONTRACTOR'S RESPONSIBILITY TO IDENTIFY, GATHER AND SUBMIT ALL SHOP DRAWINGS TO THE ARCHITECT OR LEAD DESIGNER FOR STRUCTURAL COMPONENTS. THIS STIPULATION IS FOR THE SPECIFIC PURPOSE OF KEEPING TRACK OF THE REQUIRED SHOP DRAWINGS FOR THE PROJECT THEREBY PROVIDING THE PROJECT WITH ALL THE SHOP DRAWINGS RELATING TO STRUCTURAL COMPONENTS AND STRUCTURAL SYSTEM(S). THOUGH THE STRUCTURAL ENGINEER MAY PERFORM SITE VISITS-THESE VISITS DO NOT RELIEVE THE CONTRACTOR FROM THE DUTIES OF GATHERING AND SUBMITTING SHOP DRAWINGS RELATING TO THE STRUCTURAL DRAWINGS. NOR DOES THE PRESENCE OF THE ARCHITECT OR STRUCTURAL ENGINEER RELIEVE THE CONTRACTOR FROM PROVIDING THE NECESSARY QUALITY CONTROL OVER THIS PROJECT.

THE STRUCTURAL DRAWINGS ARE NOT TO BE REPRODUCED FOR SHOP DRAWINGS, SECTION SHEETS OR ERECTION PLANS. THE CONTRACTOR SHALL SUBMIT AN AMPLE NUMBER OF SETS OF SHOP DRAWINGS TO ALLOW FOR EACH DESIGN PROFESSIONAL TO RETAIN A SET FOR THE FILE. SHOP DRAWINGS SHALL BEYREVIEWED AND APPROVED BY THE CONTRACTOR FOR (BUT NOT LIMITED TO) DIMENSIONS, ELEVATIONS, MEANS AND METHODS, AND ERECTION PROCEDURES PRIOR TO ARCHITECT & STRUCTURAL ENGINEER'S REVIEW. AMPLE TIME, AS DETERMINED BY THE REVIEWER, SHALL BE ALLOTTED FOR THE REVIEW OF SHOP DRAWINGS. THE MEMBERS OF THE DESIGN TEAM SHOULD RECEIVE A FINAL SET OF SHOP DRAWINGS STAMPED FINAL SHOP DRAWINGS - FILE SET WHICH INCORPORATES ANY COMMENTS MADE DURING THE SHOP DRAWING PROCESS. FINAL SHOP DRAWINGS STRUCTURAL SHOP DRAWINGS ARE REQUIRED TO BEAR THE SEAL OF A REGISTERED ENGINEER IN THE PROJECT STATE.

6. THE ENGINEER'S APPROVAL OF SHOP DRAWINGS SHALL NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY FOR DEVIATIONS FROM REQUIREMENTS IN THE CONTRACT DOCUMENTS AND THE PROJECT SPECIFICATION REQUIREMENTS. THOUGH THE SHOP DRAWINGS MAY BE APPROVED BY THE STRUCTURAL ENGINEER, THE CONTRACTOR SHALL NOT BE RELIEVED OF RESPONSIBILITY FOR ERRORS OR OMISSIONS. CONTRACTOR DEVIATIONS TO THE CONTRACT DOCUMENTS MUST BE SUBMITTED SEPARATELY FOR APPROVAL S DUTY TO CHECK, VERIFY, CONFIRM AND COORDINATE ALL DIMENSIONS TO BRING ATTENTION TO THE DEVIATION. IT IS THE CONTRACTOR AND DETAILS, TAKE FIELD MEASUREMENTS, VERIFY FIELD CONDITIONS AND COORDINATE HIS WORK WITH THAT OF OTHER CONTRACTORS AND/OR SUBCONTRACTORS FOR THIS PROJECT.

7. THESE STRUCTURAL DRAWINGS ARE FOR DESCRIBING THE STRUCTURAL DESIGN FOR THE PROJECT. IN AN EFFORT TO PREVENT FINISH ISSUES, FLOOR AND WALL FINISHES (PAINT, ETC.), TILE, FIXTURES AND ALL OTHER NON-STRUCTURAL COMPONENTS SHALL BE DESIGNED AND/OR SELECTED BY OTHER PROFESSIONALS. IT IS IMPORTANT FOR THE CONTRACTOR TO COORDINATE WITH HIS SUBCONTRACTORS AS TO SUBSTRATE CONDITION, SURFACE PREPARATION, INSTALLATION, AND PERFORMANCE FOR ALL MATERIALS APPLIED TO THE STRUCTURAL SYSTEMS AND COMPONENTS. SPECIAL ATTENTION MAY BE REQUIRED FOR PRODUCTS (PAINT, STUCCO, ETC.) APPLIED TO EXPOSED CONCRETE AND STEEL SURFACES.

8. ALL SUSPENDED CEILING/SOFFIT SYSTEMS (INCLUDING LIGHT FIXTURES) SHALL BE SUPPORTED AS REQUIRED BY THE MANUFACTURER(S). ATTACHMENTS, WIRES, STRUTS AND OTHER SUPPORTS SHALL BE DESIGNED TO RESIST THE CODE REQUIRED. WIND (BOTH NEGATIVE AND POSITIVE PRESSURES) AND SEISMIC LOADS PER THE APPLICABLE EDITION OF THE APPROPRIATE

9. THE CONTRACTOR SHALL REFER TO ARCHITECTURAL DRAWINGS FOR ALL WALL OPENINGS INCLUDING DOORS AND WINDOWS. REFER TO ELECTRICAL AND MECHANICAL PLANS AND/OR REQUIREMENTS FOR SIZE AND LOCATION OF ALL OPENINGS FOR DUCTS, PIPING,

IO, THE CONTRACTOR SHALL REFER TO THE ARCHITECTURAL AND/OR VENDER DRAWINGS FOR LOCATIONS OF DEPRESSED FLOOR AREAS, FLOOR DRAINS, FLOOR TOPPINGS, CMU COURSING AND ANY OTHER DETAILS NOT SHOWN ON THE STRUCTURAL DRAWINGS.

II. THESE DRAWINGS ARE AN INSTRUMENT OF SERVICE AND SHALL NOT BE REPRODUCED, ALTERED OR REUSED IN WHOLE OR IN PART WITHOUT THE WRITTEN PERMISSION OF KYZER & TIMMERMAN STRUCTURAL ENGINEERS. THESE STRUCTURAL DRAWINGS ARE PROTECTED THROUGH THE U.S. GOVERNMENT COPYRIGHT LEGISLATION. THE DETAILS AND NOTES INDICATED IN THESE DRAWINGS ARE PART OF AN OVERALL COPYRIGHT REGISTERED WITH @THE UNITED STATES COPYRIGHT OFFICE, THE LIBRARY OF CONGRESSA COPYRIGHT 2016 -KYZER & TIMMERMAN STRUCTURAL ENGINEERS. (803)791-4511/791-4522 FAX

12. QUESTIONS RELATING TO THESE STRUCTURAL DRAWINGS MAY BE SUBMITTED IN WRITING, THROUGH THE ARCHITECT OR PRIME PROFESSIONAL TO THE STRUCTURAL ENGINEER. THE STRUCTURAL ENGINEER SHALL BE COPIED AT: KYZER & TIMMERMAN STRUCTURAL ENGINEERS

WEST COLUMBIA, SC 29169 (803) 791-4511 (803) 791-4522 (FAX)

580 CHRIS DRIVE

CONCRETE

ALL CONCRETE AND REINFORCING BARS SHALL BE INSTALLED ACCORDING TO STANDARDS SET FORTH BY THE LATEST EDITION OF ACI-318.

2. REINFORCEMENT SHALL BE HELD IN PLACE DURING CONCRETE PLACEMENT. IF REQUIRED, ADDITIONAL BARS MAY BE PROVIDED BY THE CONTRACTOR TO FURNISH SUPPORT FOR ALL BARS.

3. 28 DAY MINIMUM CONCRETE COMPRESSIVE STRENGTH SHALL BE 4000 PSI UNO.

4. NO ADDITIONAL WATER SHALL BE ADDED TO THE CONCRETE ABOVE THAT PRESCRIBED IN THE MIX DESIGN UNLESS APPROVED BY THE ARCHITECT OR STRUCTURAL ENGINEER.

5. REINFORCING STEEL SHALL BE GRADE 60, MINIMUM LAP IN CONCRETE SHALL BE IN ACCORDANCE W/ ACI-318.

6. WELDED WIRE FABRIC SHALL BE LAPPED A MINIMUM OF 1'-O".

7. A QUALIFIED TESTING LABORATORY SHALL BE RETAINED TO COLLECT CYLINDERS AND PERFORM THE NECESSARY CONCRETE TESTS. A MINIMUM OF FOUR CYLINDERS SHALL BE TAKEN FOR EVERY 50 CUBIC YARDS (OR FRACTION THEREOF) OF EACH CONCRETE TYPE/STRENGTH SUPPLIED. THE CONCRETE CYLINDERS SHALL BE TAKEN AFTER WATER AND ADMIXTURES (IF ANY) ARE ADDED TO THE MIX. IT IS RECOMMENDED THAT ONE CYLINDER SHALL BE TESTED AT 7 DAYS, TWO AT 28 DAYS AND HOLD THE FINAL CYLINDER IN 'RESERVE. IT IS RECOMMENDED THAT TEST REPORTS SHALL BE SENT DIRECTLY TO THE GENERAL CONTRACTOR, OWNER, ARCHITECT AND STRUCTURAL ENGINEER, ANY CYLINDER BREAKS (INCLUDING 7 AND 14 DAY BREAKS) SHALL BE FLAGGED AND BROUGHT TO THE ATTENTION OF THE APPROPRIATE DESIGN PROFESSIONAL.

STRUCTURAL AND MISCELLANEOUS STEEL

SHOP DRAWING NOTE: THIS NOTE IS DIRECTED TO THE CONTRACTOR, STEEL SUPPLIERS AND DETAILERS FOR STRUCTURAL AND MISCELLANEOUS STEEL, DECKING, JOISTS AND JOIST GIRDERS.

THE DETAILERS/ SUPPLIERS SHALL BE PROVIDED A FULL SET OF CONSTRUCTION DOCUMENTS (INCLUDING ADDENDUMS AND SPECIFICATIONS) BY THE CONTRACTOR FOR THEIR USE IN ORDER TO PROPERLY DETAIL THE PROJECT. DECK EDGES, DIMENSIONS, TOP OF STEEL, SLOPES, ARE CONTROLLED BY THE ARCHITECTURAL DRAWINGS.

THE CONTRACTOR SHALL ANSWER QUESTIONS, IN THE SHOP DRAWINGS, INDICATED TO THE "CONTRACTOR" AND/OR "APPROVER" OR SIMILAR DESIGNATION.

KYZER AND TIMMERMAN WILL RESPOND TO CLOUDED QUESTIONS, IN THE SHOP DRAWINGS PROCESS, DIRECTED TO THE "ENGINEER OF "RECORD" OR SIMILAR DESIGNATION.

IT IS RECOMMENDED THAT THE DETAILER USE APPROPRIATE DESIGNATIONS FOR THE ARCHITECT, CIVIL ENGINEER, MECHANICAL ENGINEER, ELECTRICAL ENGINEER, ETC.

IT IS IMPORTANT FOR THE CONTRACTOR TO REVIEW THE SHOP DRAWINGS FROM HIS DETAILERS AND TO PROVIDE THE NECESSARY COORDINATION BETWEEN THE STEEL, JOISTS AND DECKING SHOP DRAWINGS PRIOR TO SUBMITTING TO THE DESIGN TEAM. SHOP DRAWINGS SUBMITTED TO THE DESIGN TEAM WITHOUT THE CONTRACTORS REVIEW ARE SUBJECT TO BE RESUBMITTED, REJECTED OR OTHER SIMILAR ACTION MAY BE TAKEN BY THE ARCHITECT AND/OR ENGINEER.

2. UNLESS NOTED OTHERWISE, STRUCTURAL STEEL GRADES FOR ALL STEEL SHALL BE AS INDICATED BELOW:

A. ANCHOR BOLTS A307 CONNECTION BOLTS A325 OR A490

PLATES AND FLAT BARS ... A36 STEEL PIPE A53, TYPE E OR S, GRADE B, Fy=35ksi

STRUCTURAL TUBING A500, GRADE B, Fy=46 KŚI WIDE FLANGE SHAPES A992, GRADE 50

OTHER ROLLED SHAPES..... A36 H. MISCELLANEOUS SHAPES ... A36

COMPLETED SUBMITTALS.

3. THE CONTRACTOR SHALL SUBMIT DETAILED STRUCTURAL STEEL SHOP DRAWINGS TO INCLUDE (BUT NOT LIMITED TO) COLUMNS. BEAMS, JOISTS, BRIDGING, DECKING, STAIRS, STAIR LANDINGS AND ALL CONNECTIONS, AS PART OF THE SHOP DRAWINGS, THE CONTRACTOR SHALL SUPPLY EMBEDDED STEEL PLATE AND BRACKET LOCATION DRAWINGS. IN NO CIRCUMSTANCES SHALL THE STRUCTURAL DRAWINGS BE REPRODUCED FOR SHOP DRAWINGS (SECTION SHEETS, ERECTION PLANS, ETC.). THE CONTRACTOR SHALL SUBMIT AN AMPLE NUMBER OF SETS OF SHOP DRAWINGS TO ALLOW FOR EACH DESIGN PROFESSIONAL TO RETAIN A SET FOR HIS/HER FILES, SHOP DRAWINGS SHALL BE'REVIEWED AND APPROVED BY THE CONTRACTOR FOR (BUT NOT LIMITED TO) DIMENSIONS, ELEVATIONS, AND ERECTION PROCEDURES PRIOR TO ARCHITECT & STRUCTURAL ENGINEER'S REVIEW. AMPLE TIME, AS REQUIRED AND DETERMINED BY THE STRUCTURAL ENGINEER, SHALL BE ALLOTTED TO PERFORM HIS REVIEW OF SHOP DRAWINGS. THE CONTRACTOR IS ADVISED TO PROVIDE THE REQUIRED SHOP DRAWINGS AS SOON AS REASONABLY POSSIBLE TO ALLOW FOR ADEQUATE TIME FOR FABRICATION, SHIPPING ETC. THE MEMBERS OF THE DESIGN TEAM SHALL RECEIVE A FINAL SET OF SHOP DRAWINGS STAMPED @FINAL SHOP DRAWINGS - FILE SETA WHICH INCORPORATES ANY COMMENTS MADE DURING THE SHOP DRAWING PROCESS AND SHOULD BE STAMPED BY A REGISTERED ENGINEER REGISTERED IN THE PROJECT STATE. THIS SET OF SHOP DRAWINGS SHALL ALSO CONTAIN THE SAME INFORMATION AS THE @FIELD SETA. THE CONTRACTOR SHALL NOT CONSIDER THE SHOP DRAWING PROCESS COMPLETE UNTIL TIME THE STRUCTURAL ENGINEER RECEIVES THE SHOP DRAWINGS STAMPED @FINAL SHOP DRAWINGS - FILE SETA. THE CONTRACTOR SHOULD NOT FABRICATE STEEL UNTIL TIME THE STRUCTURAL ENGINEER RECEIVES THE FINAL DRAWINGS CARRYING THIS NOTATION. THIS SET OF SHOP DRAWINGS IS TO ALLOW THE ENGINEER OF RECORD TO HAVE A FINAL SET FOR HIS USE PRIOR TO ERECTION. DUE TO UNFORESEEN CONDITIONS, THE CONTRACTOR MAY CONSIDER TO PROCEED (AT HIS OWN RISK) TO FABRICATE AND ERECT STEEL PRIOR TO

STATEMENT OF SPECIAL INSPECTIONS (PER CHAPTER 17, 2015 IBC)

SPECIAL INSPECTION COMPANY / COORDINATOR - TO BE RETAINED BY OWNER

BUILDING SYSTEM	MATERIAL	MATERIAL TESTING				INSPECTION (PER IBC)			QUALITY ASSURANCE (PER IBC)	
OR COMPONENT	SUBMITTAL	REQUIREMENTS	FREQUENCY	AGENCY	MONITORING	FREQUENCY	AGENCY	PART OF WIND	PART OF SEISMIC	
STRUCTURAL STEEL	SUBMIT MANUFACTURER'S CERTIFIED MILL TEST REPORTS FOR STRUCTURAL STEEL.	N/A	N/A	N/A	INSPECT STEEL FRAME JOINT DETAILS FOR COMPLIANCE WITH CONSTRUCTION DOCUMENTS.	1. PERIODIC	INSPECTION AGENCY TO BE APPROVED BY SPECIAL INSPECTION COORDINATOR & BUILDING OFFICIAL PER IBC	1. FLOOR AND ROOF SYSTEM FRAMING	1. FLOOR AND ROOF SYSTEM FRAMING	
STRUCTURAL STEEL HIGH - STRENGTH BOLTING (AND MECHANICAL FASTENING OF METAL DECK)	SUBMIT MANUFACTURER'S CERTIFICATE OF COMPLIANCE FOR HIGH-STRENGTH BOLTS, NUTS, WASHERS AND/OR FASTENERS.	N/A	N/A	N/A	1. VERIFY BOLTING IN BEARING-TYPE CONNECTIONS ARE INSTALLED IN ACCORDANCE WITH AISC SPECIFICATIONS. 2. VERIFY BOLTING IN SLIP-CRITICAL CONNECTIONS ARE INSTALLED IN ACCORDANCE WITH AISC SPECIFICATIONS. 3. VERIFY IDENTIFICATION MARKING ON HIGH-STRENGTH BOLTS, NUTS AND WASHERS CONFORMING TO ASTM STANDARDS SPECIFIED. 4. VERIFY FASTENER TYPE AND ADHERENCE TO SPECIFIED FASTENER ATTACHMENT PATTERN. 5. VERIFY PROPER STORAGE AND HANDLING OF BOLTS, NUTS, WASHERS.	2. CONTINUOUS (MAY BE PERIODIC IF TURN-OF-NUT WITH MATCH MARKING METHODS,	INSPECTION AGENCY TO BE APPROVED BY SPECIAL INSPECTION COORDINATOR & BUILDING OFFICIAL PER IBC	1. FLOOR AND ROOF SYSTEM BOLTING	1. FLOOR AND ROOF SYSTEM BOLTING	
STRUCTURAL STEEL WELDING	SUBMIT MANUFACTURER'S CERTIFICATE OF COMPLIANCE FOR WELD FILLER MATERIAL.	N/A	N/A	N/A	VERIFY WELDING IS IN COMPLIANCE WITH AWS D1.1 1. COMPLETE AND PARTIAL PENETRATION GROOVE WELDS. 2. MULTIPASS FILLET WELDS 3. SINGLE-PASS FILLET WELDS > 5/16" 4. SINGLE-PASS FILLET WELDS < OR = 5/16" 5. FLOOR AND DECK WELDS	1. CONTINUOUS 2. CONTINUOUS 3. CONTINUOUS 4. PERIODIC 5. PERIODIC	INSPECTION AGENCY TO BE APPROVED BY SPECIAL INSPECTION COORDINATOR & BUILDING OFFICIAL PER IBC	1. FLOOR AND ROOF SYSTEM WELDING	1. FLOOR AND ROOF SYSTEM WELDING	

NOTE: ALL TESTING. INSPECTION & RELATED REPORTS SHALL BE SENT TO THE SPECIAL INSPECTION COORDINATOR & THE OWNER.

- SPECIAL INSPECTOR: PER IBC "A QUALIFIED PERSON EMPLOYED OR RETAINED BY AN APPROVED BY THE BUILDING OFFICIAL AS HAVING THE COMPETENCE NECESSARY TO INSPECT A PARTICULAR TYPE OF CONSTRUCTION REQUIRING SPECIAL INSPECTION"

- PERIODIC SPECIAL INSPECTION: PER IBC "SPECIAL INSPECTION BY THE SPECIAL INSPECTOR WHO IS INTERMITTENTLY PRESENT WHERE THE WORK TO BE INSPECTED HAS BEEN OR IS BEING PERFORMED" - CONTINUOUS SPECIAL INSPECTION: PER IBC "SPECIAL INSPECTION BY THE SPECIAL INSPECTOR WHO IS PRESENT WHEN AND WHERE THE WORK TO BE INSPECTED IS BEING PERFORMED". THIS IS INTENDED TO BE A CONTINUOUS INSPECTION.

ANY DEFICIENCIES SHALL BE CLEARLY NOTED & BROUGHT TO THE ATTENTION OF THE SPECIAL INSPECTION COORDINATOR BEFORE THE END OF THE INSPECTOR'S SHIFT.

4. TO LESSEN THE RISK OF ERROR (AND STEEL OMISSIONS), DESIGNERS AND DETAILERS OF THE STRUCTURAL SYSTEMS AND COMPONENTS FOR THIS PROJECT SHALL BE PROVIDED COMPLETE SETS OF CONSTRUCTION DRAWINGS AND SPECIFICATIONS BY THE CONTRACTOR. THIS IS DONE TO ALLOW THE STEEL DETAILER TO IDENTIFY STEEL AND ADDITIONAL LOADS INCLUDING DUCTS, HOODS, MECHANICAL, HANGING PARTITIONS AND OTHER SYSTEMS/COMPONENTS TO BE SUPPORTED BY STEEL. THE CONTRACTOR SHALL COORDINATE THE STEEL SUBCONTRACTORS AND DETAILERS TO ASSURE THAT THE NECESSARY STEEL IS PROVIDED TO SUPPORT AND/OR ACCOMMODATE THESE ADDITIONAL LOADS AND SYSTEMS.

. ALL SHOP & FIELD WELDING SHALL BE PERFORMED BY QUALIFIED PERSONNEL IN ACCORDANCE WITH A.M.S. SPECIFICATIONS-LATEST EDITION. BOTH SHOP AND FIELD WELDER CERTIFICATIONS SHALL BE CURRENT THROUGH THE DURATION OF THE STEEL WORK, THE CONTRACTOR SHALL KEEP ON SITE ALL WELDER CERTIFICATIONS (SHOP AND FIELD) AND SHALL BE MADE AVAILABLE UPON REQUEST OF THE ARCHITECT AND/OR STRUCTURAL ENGINEER.

6. IN ORDER TO PREVENT FIELD FIT-UP AND PLACEMENT ISSUES THE STRUCTURAL STEEL SHOP DRAWINGS SHALL BE CAREFULLY COORDINATED WITH ANY OTHER COMPONENT DRAWINGS-INCLUDING BARJOIST AND DECKING SHOP DRAWINGS. THIS DETAILED COORDINATION IS TO BE PERFORMED BY THE STRUCTURAL STEEL SHOP DRAWING PROVIDER. THE PROVIDERS OF BARJOIST AND DECKING SHOP DRAWINGS (AND OTHER COMPONENTS) SHALL BACK CHECK THE STRUCTURAL STEEL SHOP DRAWINGS AS A SECONDARY VERIFICATION. THE GENERAL CONTRACTOR SHALL PROVIDE HIS OWN CHECK PRIOR TO COMPLETION OF THE SHOP DRAWING PROCESS.

7. ALL STEEL DETAILS AND CONNECTIONS SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE LATEST EDITION OF A.I.S.C.

8. ALL BEAM CONNECTIONS SHALL BE TWO SIDE WEB ANGLE CONNECTIONS PER A.I.S.C. SPECIFICATION (LATEST EDITION) UNLESS OTHERWISE DETAILED IN THESE DRAWINGS.

9. ALL FRAMING AND MISCELLANEOUS STEEL SHALL BE FILLET WELDED ALL AROUND UNLESS OTHERWISE NOTED. WELD SIZE SHALL BE THE MAXIMUM AS ALLOWED BY THE LATEST EDITION OF THE "MANUAL OF STEEL CONSTRUCTION" BASED ON THE MATERIAL THICKNESS. ALL WELDING SHALL BE DONE WITH E-TO ELECTRODES.

IO. SHOP AND FIELD CONNECTIONS NOT SPECIFICALLY DETAILED ON THE DRAWINGS MAY BE WELDED OR BOLTED. ALL WELDING SHALL BE DONE WITH E-70 ELECTRODES. CUTS, HOLES, COPING, ETC. REQUIRED FOR WORK OF OTHER TRADES, ROOF LINES OR BUILDING GEOMETRY SHALL BE SHOWN ON THE STRUCTURAL STEEL SHOP DRAWINGS AND FABRICATED IN THE SHOP, FIELD CUTTING AND/OR BURNING IS NOT PERMITTED WITHOUT APPROVAL OF THE STRUCTURAL ENGINEER OF RECORD FOR THE PROJECT OR A STRUCTURAL ENGINEER REGISTERED IN THE PROJECT STATE.

II. STEEL BEAM CONNECTIONS - ALL END REACTION CONNECTIONS FOR UNIFORMLY LOADED STEEL BEAMS AND GIRDERS SHALL BE DESIGNED BASED ON THE END'REACTION OF THE UNIFORMLY LOADED MEMBER FOR ITS SPAN (PER AISC MANUAL OF STEEL CONSTRUCTION- LATEST EDITION). NON-UNIFORM LOADED STEEL BEAMS (TRANSFER BEAMS) SHALL HAVE END REACTION CONNECTIONS BASED ON THE MAXIMUM SHEAR CAPACITY OF THE BEAM-'REGARDLESS OF THE SPAN. ALL CONNECTIONS SHALL BE BOLTED USING 3/4" DIAMETER A-325 BOLTS (AS A MINIMUM). ALL CONNECTIONS, INCLUDING SPLICES, SHALL BE DESIGNED BY A REGISTERED ENGINEER

12. ALL STEEL REQUIRING PAINT SHALL BE PROPERLY CLEANED AND PREPARED TO ACCEPT THE APPROPRIATE PAINT FOR THE PROJECT. THE PAINT TYPE, COLOR AND THICKNESS SHALL BE SELECTED ACCORDING TO THE LOCATION OF THE STEEL, TYPE OF BUILDING AND OWNERS REQUIREMENTS FOR COLOR, ETC. DECISIONS INVOLVING PAINT, COLOR AND SO ON SHALL BE PER OWNER.

STEEL JOISTS AND GIRDERS.

LICENSED IN THE PROJECT STATE.

SHOP DRAWING NOTE: THIS NOTE IS DIRECTED TO THE CONTRACTOR, STEEL SUPPLIERS AND DETAILERS FOR STRUCTURAL AND MISCELLANEOUS STEEL, DECKING, JOISTS AND JOIST GIRDERS.

THE DETAILERS/ SUPPLIERS SHALL BE PROVIDED A FULL SET OF CONSTRUCTION DOCUMENTS (INCLUDING ADDENDUMS AND SPECIFICATIONS) BY THE CONTRACTOR FOR THEIR USE IN ORDER TO PROPERLY DETAIL THE PROJECT. DECK EDGES, DIMENSIONS, TOP OF STEEL, SLOPES, ARE CONTROLLED BY THE ARCHITECTURAL DRAWINGS.

THE CONTRACTOR SHALL ANSWER QUESTIONS, IN THE SHOP DRAWINGS, INDICATED TO THE @CONTRACTOR4 AND/OR "APPROVER" OR

KYZER AND TIMMERMAN WILL RESPOND TO CLOUDED QUESTIONS, IN THE SHOP DRAWINGS PROCESS, DIRECTED TO THE "ENGINEER OF RECORD", "EOR" OR SIMILAR DESIGNATION.

IT IS RECOMMENDED THAT THE DETAILER USE APPROPRIATE DESIGNATIONS FOR THE ARCHITECT, CIVIL ENGINEER, MECHANICAL

ENGINEER, ELECTRICAL ENGINEER, ETC. IT IS IMPORTANT FOR THE CONTRACTOR TO REVIEW THE SHOP DRAWINGS FROM HIS DETAILERS AND TO PROVIDE THE NECESSARY COORDINATION BETWEEN THE STEEL, JOISTS AND DECKING SHOP DRAWINGS PRIOR TO SUBMITTING TO THE DESIGN TEAM. SHOP

OTHER SIMILAR ACTION MAY BE TAKEN BY THE ARCHITECT AND/OR ENGINEER.

DRAWINGS SUBMITTED TO THE DESIGN TEAM WITHOUT THE CONTRACTORS REVIEW ARE SUBJECT TO BE RESUBMITTED, REJECTED OR

2. THE CONTRACTOR SHALL SUBMIT DETAILED SHOP DRAWINGS SHOWING BEAMS, JOISTS, BRIDGING, DECKING AND ALL CONNECTIONS-INCLUDING SPLICES. THESE SHOP DRAWINGS SHALL BE SIGNED AND SEALED BY A REGISTERED ENGINEER IN THE PROJECT STATE TO CERTIFY COMPLIANCE WITH THE CODE REQUIRED LOADS OR AS SPECIFIED IN THE DRAWINGS (WHICH EVER IS HIGHER). THE SPECIFIC DESIGN OF THE BAR JOISTS AND GIRDERS SHALL TAKE INTO CONSIDERATION ALL ASPECTS OF DESIGN INCLUDING VIBRATION. AS PART OF SHOP DRAWINGS, STEEL FABRICATOR SHALL SUPPLY EMBEDDED STEEL PLATE AND BRACKET LOCATION DRAWINGS. THE STRUCTURAL DRAWINGS ARE NOT TO BE REPRODUCED FOR SHOP DRAWINGS, SECTION SHEETS OR ERECTION PLANS. THE STRUCTURAL DRAWINGS ARE NOT TO BE REPRODUCED FOR SHOP DRAWINGS, SECTION SHEETS OR ERECTION PLANS. SUBMIT AN AMPLE NUMBER OF SETS OF SHOP DRAWINGS TO ALLOW FOR EACH DESIGN PROFESSIONAL TO RETAIN A SET FOR THE FILE. SHOP DRAWINGS SHALL BE REVIEWED AND APPROVED BY THE CONTRACTOR FOR (BUT NOT LIMITED TO) DIMENSIONS, ELEVATIONS, AND ERECTION PROCEDURES PRIOR TO ARCHITECT & STRUCTURAL ENGINEER'S REVIEW. AMPLE TIME, AS DETERMINED BY THE STRUCTURAL ENGINEER, SHALL BE ALLOTTED FOR HIS REVIEW OF SHOP DRAWINGS. THE CONTRACTOR MAY ISSUE SHOP DRAWINGS EARLY TO ALLOW FOR ADDITIONAL FABRICATION TIME, THE MEMBERS OF THE DESIGN TEAM SHALL RECEIVE A FINAL SET OF SHOP DRAWINGS STAMPED "FINAL SHOP DRAWINGS - FILE SET" WHICH INCORPORATES ANY COMMENTS MADE DURING THE SHOP DRAWING PROCESS AND SHALL BE STAMPED BY A REGISTERED ENGINEER REGISTERED IN THE PROJECT STATE.

JOISTS AND JOIST GIRDERS TO BE MANUFACTURED AND INSTALLED ACCORDING TO THE STANDARDS AND SPECIFICATIONS SET FORTH BY THE STEEL JOIST INSTITUTE. JOIST DESIGNER/SUPPLIER SHALL DETERMINE AND/OR VERIFY THE LOCATIONS AND WEIGHTS OF ALL MECHANICAL EQUIPMENT PRIOR TO SHOP DRAWING SUBMITTAL AND JOIST FABRICATION. IN MANY CASES THE CONTRACTOR, ARCHITECT AND/OR OWNER MAY SUBSTITUTE A MECHANICAL SYSTEM IN THE BID PROCESS-THEREBY CHANGING THE LOCATIONS AND WEIGHTS OF THE MECHANICAL UNITS. THE CONTRACTOR SHALL OBTAIN AND KEEP ON FILE THE JOIST CALCULATIONS RELATING TO THE DESIGN OF STEEL JOIST AND GIRDERS-INCLUDING "SPECIAL JOISTS". IN SOME INSTANCES MULTIPLE JOISTS MAY BE SHOWN ON THE STRUCTURAL DRAWINGS AT MECHANICAL UNIT LOCATIONS. TO SUPPORT MECHANICAL UNITS AND OTHER ROOF LOADS THE JOIST DESIGNER/SUPPLIER MAY USE MULTIPLE JOISTS OR @SPECIAL JOISTS A TO CARRY THE LOADS.

4. ALL STEEL DETAILS AND CONNECTIONS SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE LATEST EDITION OF A.I.S.C. SPECIFICATIONS.

DECKING CONTRACTOR TO COORDINATE OPENING SIZES AND LOCATIONS FROM ARCHITECTURAL AND MECHANICAL DRAWINGS, METAL DECK SHALL CONFORM TO THE APPROPRIATE ASTM STANDARD,

6. ALL STEEL JOISTS SUPPORTING ROOF DECK SHALL BE DESIGNED TO RESIST UPLIFT LOADS, DUE TO WIND, PER THE LATEST EDITION OF THE APPLICABLE BUILDING CODE, UPLIFT BRIDGING SHALL BE DESIGNED BY THE BAR JOIST/ GIRDER ENGINEER AND INDICATED IN THE SHOP DRAWINGS, NO LOADS SHALL BE APPLIED TO THE JOISTS UNTIL ALL BRIDGING IS INSTALLED AND JOIST BEARING ENDS HAVE BEEN SECURED. BRIDGING TO BE DESIGNED AND INSTALLED IN ACCORDANCE WITH THE STEEL JOIST INSTITUTE STANDARDS.

7. ALL STEEL JOISTS SHALL BEAR A MINIMUM OF 2-1/2" ON STEEL BEAMS. STEEL JOISTS BEARING ON BOTH SIDES OF STEEL BEAMS WITH FLANGES LESS THAN 5" SHALL BE STAGGERED TO ALLOW THE REQUIRED BEARING REGARDLESS OF FRAMING PLANS AND

8. STEEL JOIST DETAILERS TO VERIFY JOIST AND BEAM BEARING ELEVATIONS WITH THE ARCHITECTURAL DRAWINGS TO ENSURE PROPER ROOF SLOPES FOR DRAINAGE AND CORRECT FLOOR ELEVATIONS. SEE ARCHITECTURAL DRAWINGS FOR FLASHING AND ROOF RELATED DETAILS NOT SHOWN ON STRUCTURAL DRAWINGS.

METAL DECKING:

SHOP DRAWING NOTE: THIS NOTE IS DIRECTED TO THE CONTRACTOR, STEEL SUPPLIERS AND DETAILERS FOR STRUCTURAL AND MISCELLANEOUS STEEL, DECKING, JOISTS AND JOIST GIRDERS.

THE DETAILERS/ SUPPLIERS SHALL BE PROVIDED A FULL SET OF CONSTRUCTION DOCUMENTS (INCLUDING ADDENDUMS AND SPECIFICATIONS) BY THE CONTRACTOR FOR THEIR USE IN ORDER TO PROPERLY DETAIL THE PROJECT. DECK EDGES, DIMENSIONS, TOP OF STEEL, SLOPES, ARE CONTROLLED BY THE ARCHITECTURAL DRAWINGS.

THE CONTRACTOR SHALL ANSWER QUESTIONS, IN THE SHOP DRAWINGS, INDICATED TO THE "CONTRACTOR" AND/OR "APPROVER" OR SIMILAR DESIGNATION.

KYZER AND TIMMERMAN WILL RESPOND TO CLOUDED QUESTIONS, IN THE SHOP DRAWINGS PROCESS, DIRECTED TO THE "ENGINEER OF "RECORD" OR SIMILAR DESIGNATION.

IT IS RECOMMENDED THAT THE DETAILER USE APPROPRIATE DESIGNATIONS FOR THE ARCHITECT, CIVIL ENGINEER, MECHANICAL ENGINEER, ELECTRICAL ENGINEER, ETC.

IT IS IMPORTANT FOR THE CONTRACTOR TO REVIEW THE SHOP DRAWINGS FROM HIS DETAILERS AND TO PROVIDE THE NECESSARY COORDINATION BETWEEN THE STEEL, JOISTS AND DECKING SHOP DRAWINGS PRIOR TO SUBMITTING TO THE DESIGN TEAM. SHOP DRAWINGS SUBMITTED TO THE DESIGN TEAM WITHOUT THE CONTRACTORS REVIEW ARE SUBJECT TO BE RESUBMITTED, REJECTED OR OTHER SIMILAR ACTION MAY BE TAKEN BY THE ARCHITECT AND/OR ENGINEER.

2. THE CONTRACTOR SHALL SUBMIT DETAILED SHOP DRAWINGS SHOWING BEAMS, JOISTS, BRIDGING, DECKING (INCLUDING TEMPORARY SHORING) AND ALL CONNECTIONS. THESE SHOP DRAWINGS SHALL BE SIGNED AND SEALED BY A REGISTERED ENGINEER IN THE PROJECT STATE. AS PART OF SHOP DRAWINGS, STEEL FABRICATOR SHALL SUPPLY EMBEDDED STEEL PLATE AND BRACKET LOCATION DRAWINGS. THE STRUCTURAL DRAWINGS ARE NOT TO BE REPRODUCED FOR SHOP DRAWINGS, SECTION SHEETS OR ERECTION PLANS, SUBMIT AN AMPLE NUMBER OF SETS OF SHOP DRAWINGS TO ALLOW FOR EACH DESIGN PROFESSIONAL TO RETAIN A SET FOR THE FILE. SHOP DRAWINGS SHALL BE REVIEWED AND APPROVED BY THE CONTRACTOR FOR (BUT NOT LIMITED TO) DIMENSIONS, ELEVATIONS, AND ERECTION PROCEDURES PRIOR TO ARCHITECT & STRUCTURAL ENGINEER'S REVIEW. AMPLE TIME, AS DETERMINED BY THE STRUCTURAL ENGINEER, SHALL BE ALLOTTED FOR HIS REVIEW OF SHOP DRAWINGS. THE CONTRACTOR MAY ISSUE SHOP DRAWINGS EARLY TO ALLOW FOR ADDITIONAL FABRICATION TIME. THE MEMBERS OF THE DESIGN TEAM SHALL RECEIVE A FINAL SET OF SHOP DRAWINGS STAMPED @FINAL SHOP DRAWINGS - FILE SETA WHICH INCORPORATES ANY COMMENTS MADE DURING THE SHOP DRAWING PROCESS AND SHALL BE STAMPED BY A REGISTERED ENGINEER REGISTERED IN THE PROJECT STATE.

3. DECKING CONTRACTOR TO COORDINATE OPENING SIZES AND LOCATIONS FROM ARCHITECTURAL AND MECHANICAL DRAWINGS. METAL DECK SHALL CONFORM TO THE APPROPRIATE ASTM STANDARD.A446 AND A525.

4. DO NOT HANG OR ATTACH MECHANICAL SYSTEMS, DUCTS, CONDUIT, PIPING, EQUIPMENT, CEILINGS, ETC. FROM METAL ROOF DECKING. 5. THE CONTRACTOR SHALL SUPPORT THE EDGE OF ALL ROOF AND FLOOR DECK WITH A STEEL ANGLE AND APPROPRIATE FASTENERS. A 5 X 3 X I/4" ANGLE (LONG LEG VERTICAL) WITH 3/4" (4" EMBEDMENT) EXPANSION BOLTS AT 2'-0" ON CENTER SHALL BE USED AT ALL MASONRY AND CONCRETE WALLS UNLESS OTHERWISE INDICATED IN THE CONSTRUCTION DOCUMENTS, A 5 X 5 X 5/16" ANGLE SHALL BE USED AT LOCATIONS IN WHICH THE DECK SUPPORT MUST SPAN BETWEEN STEEL JOISTS AND/OR BEAMS. IN THE EVENT THAT THE

STEEL DECK CHANGES DIRECTION, STEEL TUBES MAY BE REQUIRED TO ACT AS SHIMS TO PROVIDE CONTINUOUS SUPPORT FOR THE DECK.

COLD-FORMED STEEL FRAMING/ METAL STUDS:

THESE TUBES MAY OR MAY NOT BE INDICATED IN THE DETAILS (FOR CLARITY).

THE METAL STUD FRAMING IS CONSIDERED AN ENGINEERED SYSTEM DESIGNED BY THE METAL STUD FRAMING DESIGN ENGINEER EMPLOYED BY THE CONTRACTOR OR HIS SUBCONTRACTOR. THE METAL STUDS AND RECOMMENDATIONS INDICATED IN THESE DRAWINGS ARE TO BE CONSIDERED AS THE MINIMUM ALLOWED BY THE ENGINEER OF RECORD FOR THE PROJECT. DUE TO VARYING MANUFACTURERS AND SUBCONTRACTOR PREFERENCE THE CONTRACTOR SHALL SUBMIT AN ENGINEERED DESIGN FOR THE METAL STUD SYSTEM TO BE USED FOR THIS PROJECT. THE STRUCTURAL DESIGN SHALL INCLUDE COMPLETED DETAILS AND DESIGN REGARDING THE STUDS, CLIPS, TRACKS, BRACING, ANCHORS, LINTELS, SCREWS AND SO ON. SHORING REQUIREMENTS RELATED TO THE METAL STUD FRAMING, FOR ALL PHASES OF THE WORK, SHALL BE INCLUDED AS PART OF THE METAL STUD DESIGN. THE FINAL DESIGN SHALL BE STAMPED BY A REGISTERED ENGINEER (REGISTERED IN THE PROJECT STATE).

LOAD TABLE

2015 INTERNATIONAL BUILDING CODE AND ASCE 7-10

RISK CATEGORY: = III

LIVE LOADS: 1. FLOOR LOADS =

2. ROOF LOADS:

is permitted by these requirements. (per IBC 1603.2)

A. Basic roof live load 3. PARTITIONS:

A. Partition load = 15 psf floor or roof of a building, structure, or portion thereof, a load greater than

DEAD LOADS:

1. USE ACTUAL DEAD LOADS OF MATERIALS

GROUND SNOW LOAD - Pg = 10 psf WIND LOADS:

SNOW LOADS:

 $V_{ultimate} = 115 (mph)$

 $V_{ASD} = 90 \text{ (mph)}$ WIND EXPOSURE = B

INTERNAL PRESSURE COEFICIENT: Enclosed Building +/- 18%

SEISMIC LOADS:

SOIL SITE CLASS - D SEISMIC IMPORTANCE FACTOR - le = 1.25

SPECTRAL RESPONSE ACCELERATIONS Ss = 0.419 S1 = 0.143SPECTRAL RESPONSE COEFFICIENTS

Sds = 0.409 Sd1 = 0.213SEISMIC DESIGN CATEGORY = D

> * Much of the information presented in this load table originates from the applicable building code(s). The structural design for systems such as metal studs, exterior doors, windows, skylights, roofing systems, etc. will be more complicated and more building specific than indicated in this table. Designers and suppliers must refer to the applicable building codes, site conditions and architectural drawings to adequately design and / or specify their individual components and systems.

100 psf

20 psf

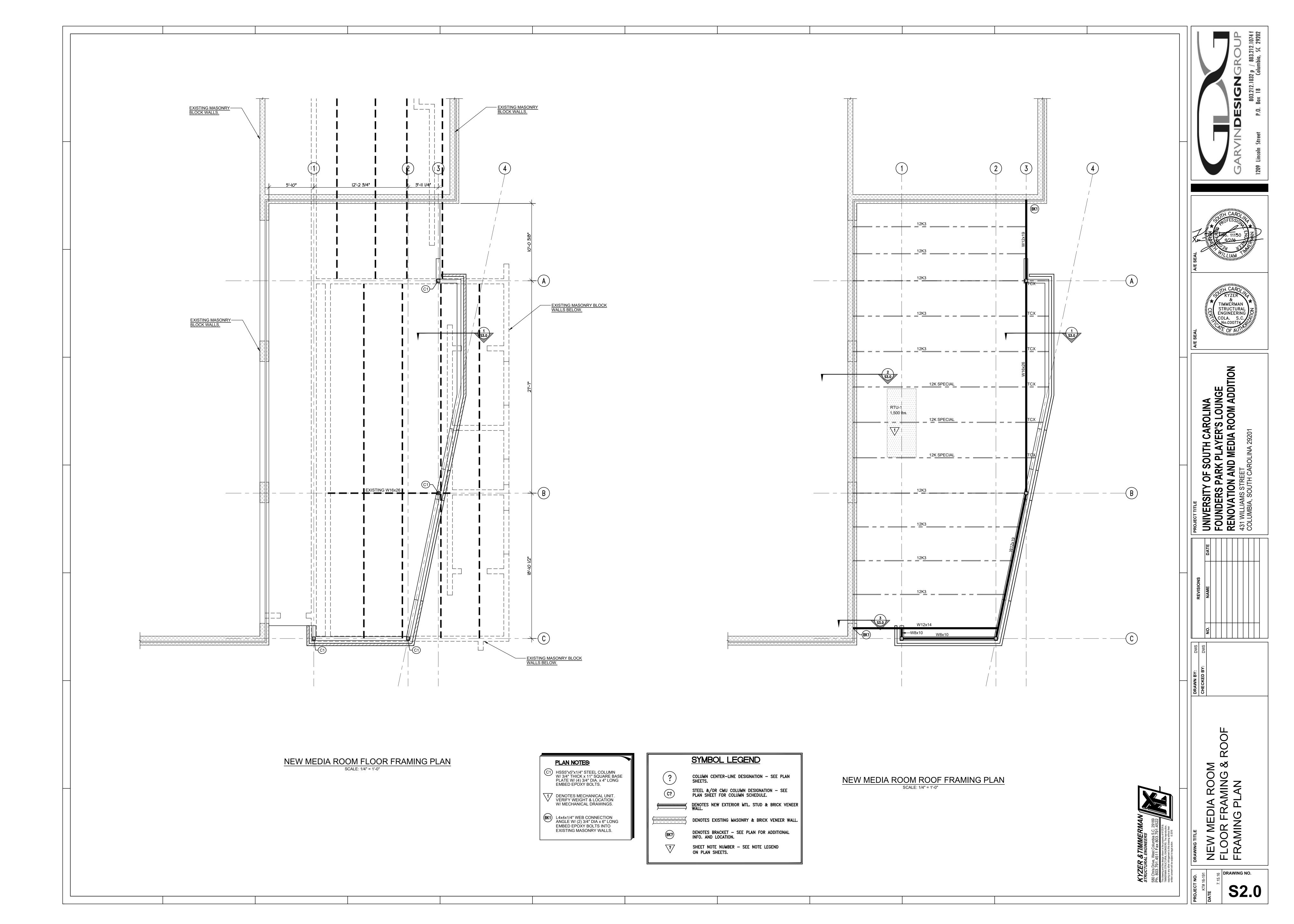
STRUCTURAL

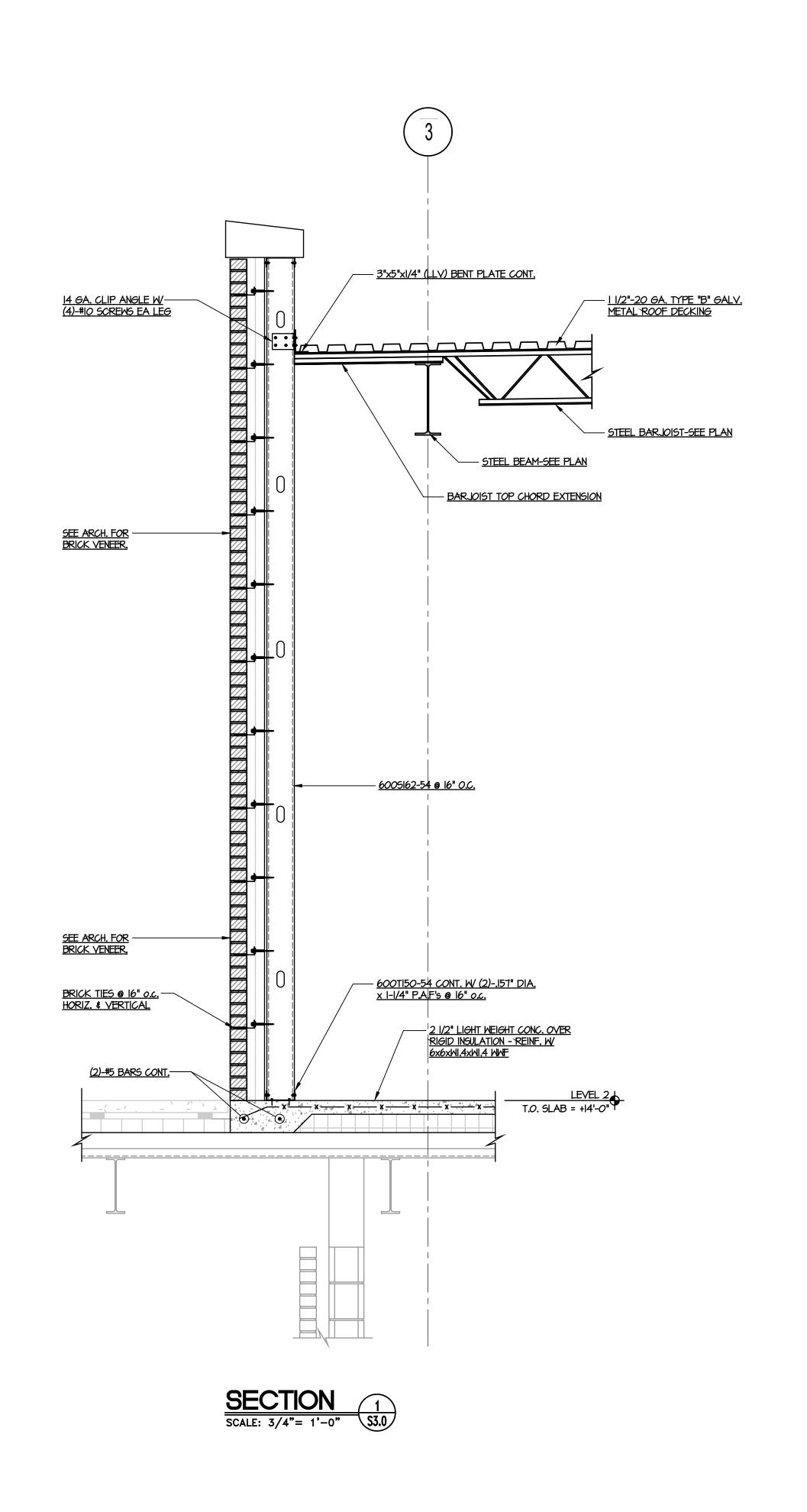
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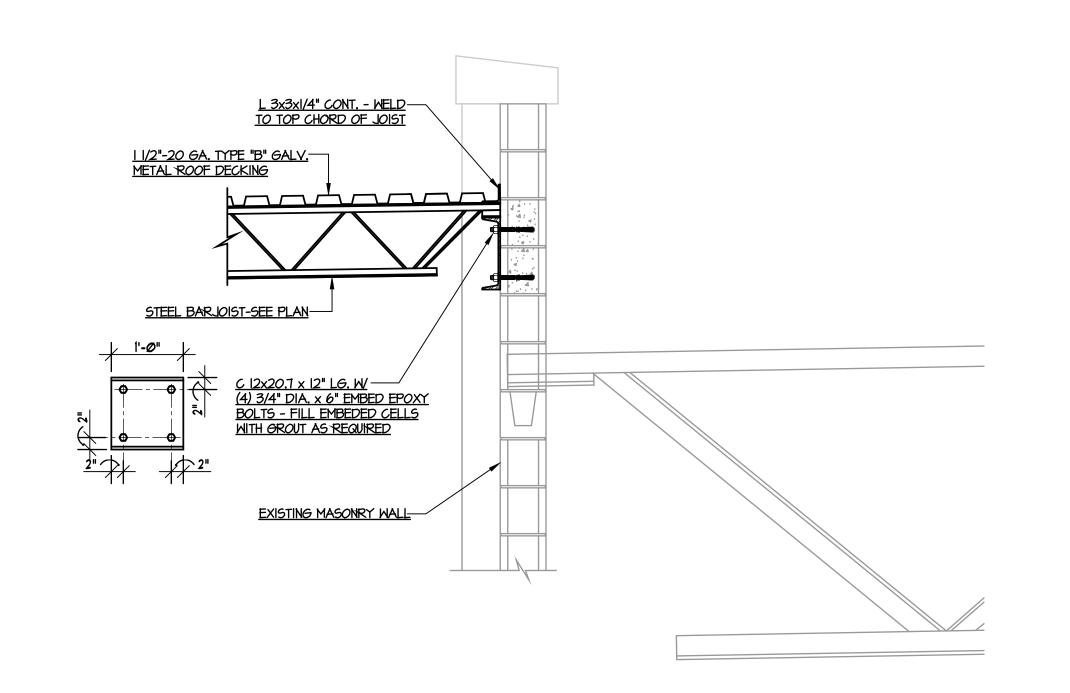
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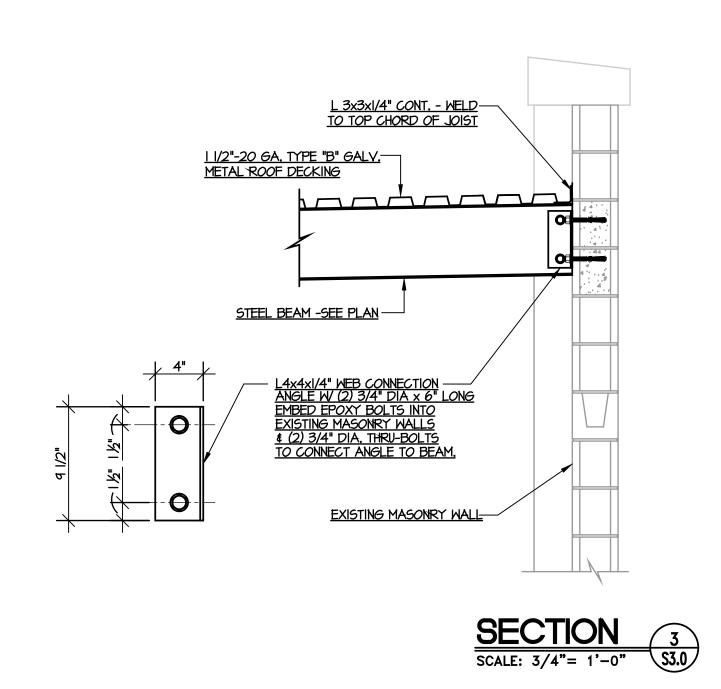
DRAWING NO.

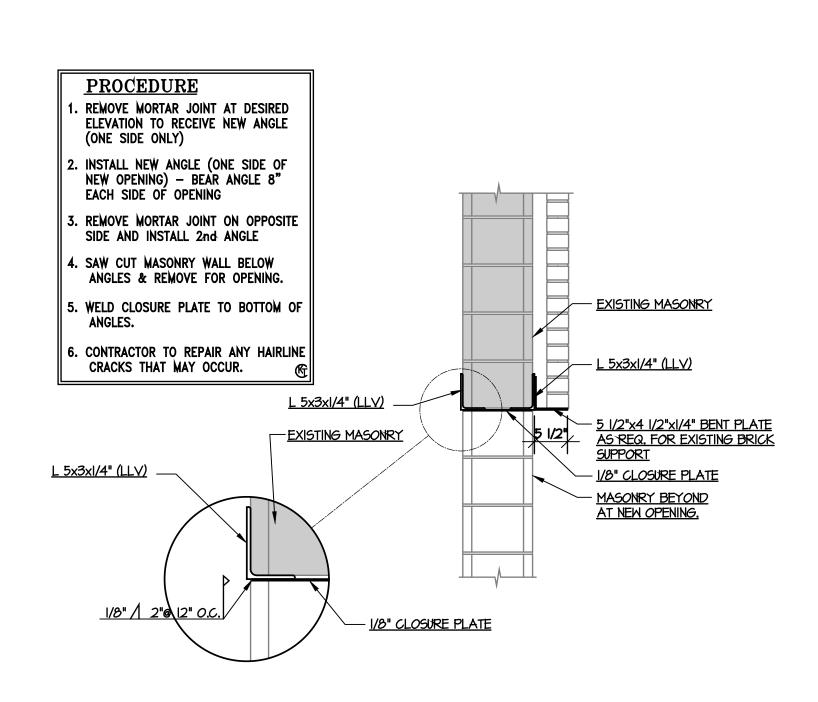




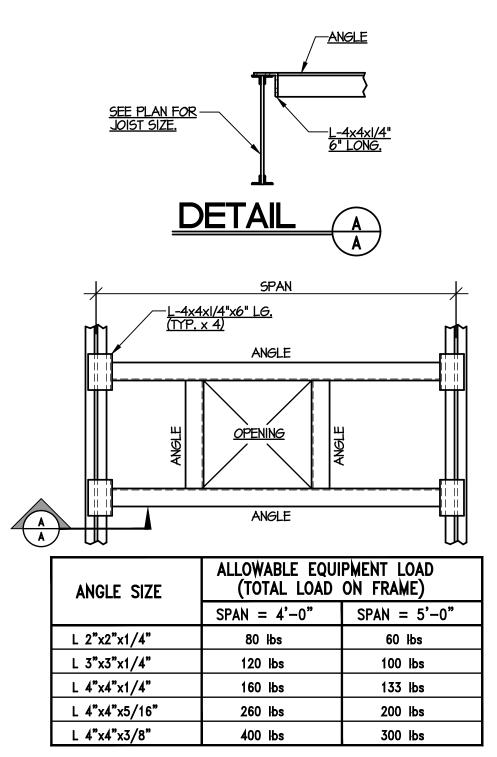


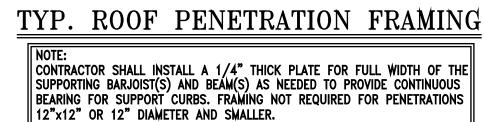
SECTION 2 SCALE: 3/4"= 1'-0" \$3.0

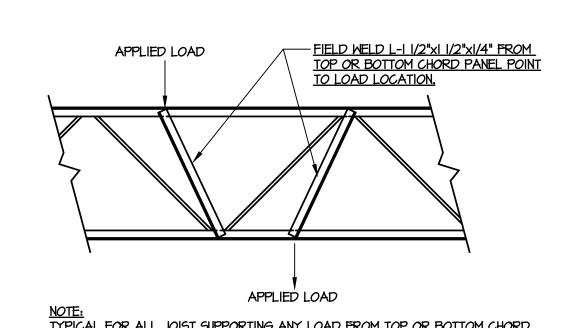




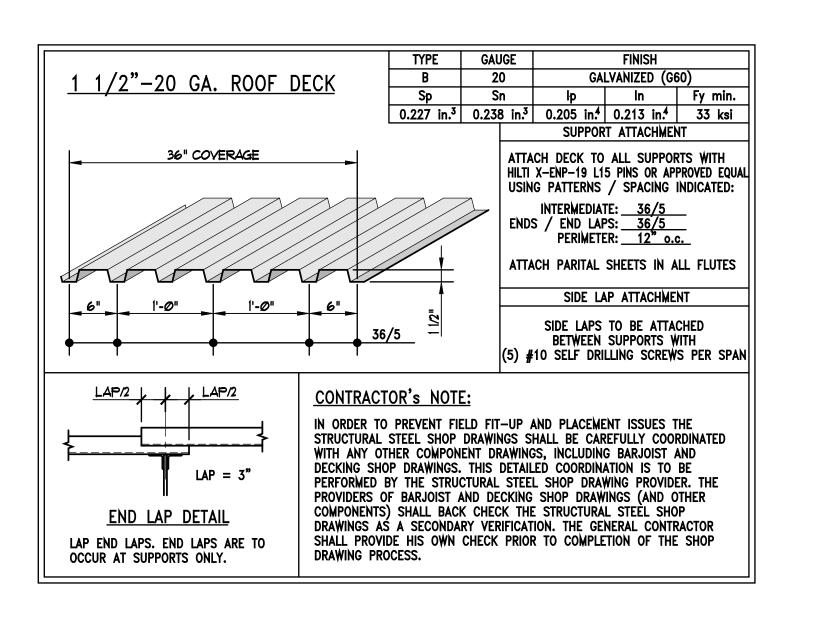
NEW OPENING DETAILS IN EXISTING WALL (PLAYERS LOUNGE) SEE ARCH DRAWINGS FOR LOCATIONS



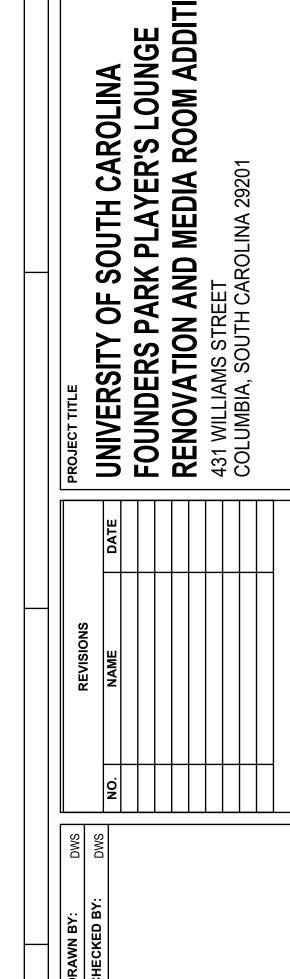




NOTE:
TYPICAL FOR ALL JOIST SUPPORTING ANY LOAD FROM TOP OR BOTTOM CHORD
BETWEEN PANEL POINTS, VERIFY LOCATION AND LOADS W/ MECHANICAL,
ARCHITECTURAL AND ELECTRICAL DRAWINGS. TYPICAL JOIST MODIFICATION AT CONCENTRATED LOAD DETAIL

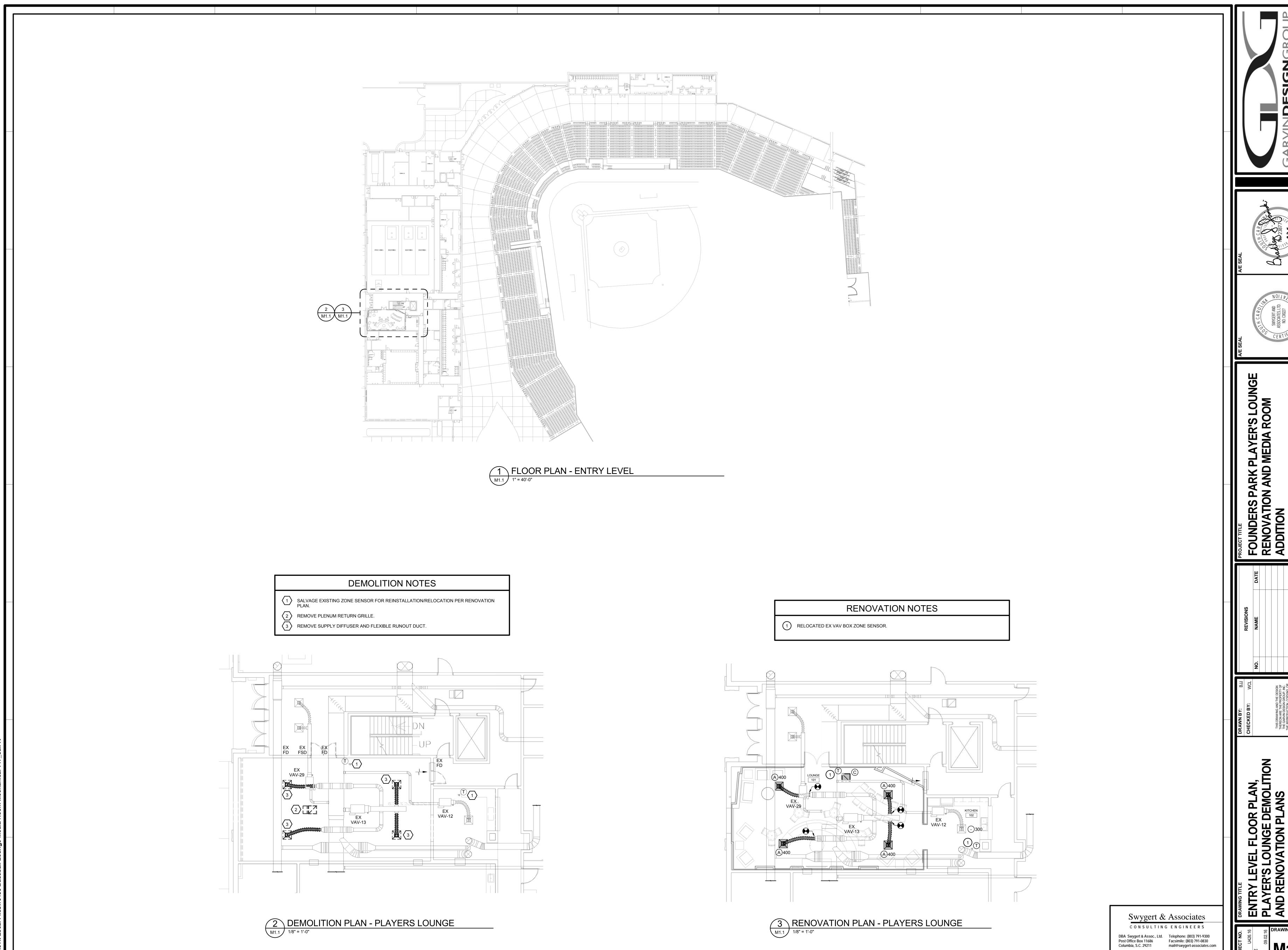


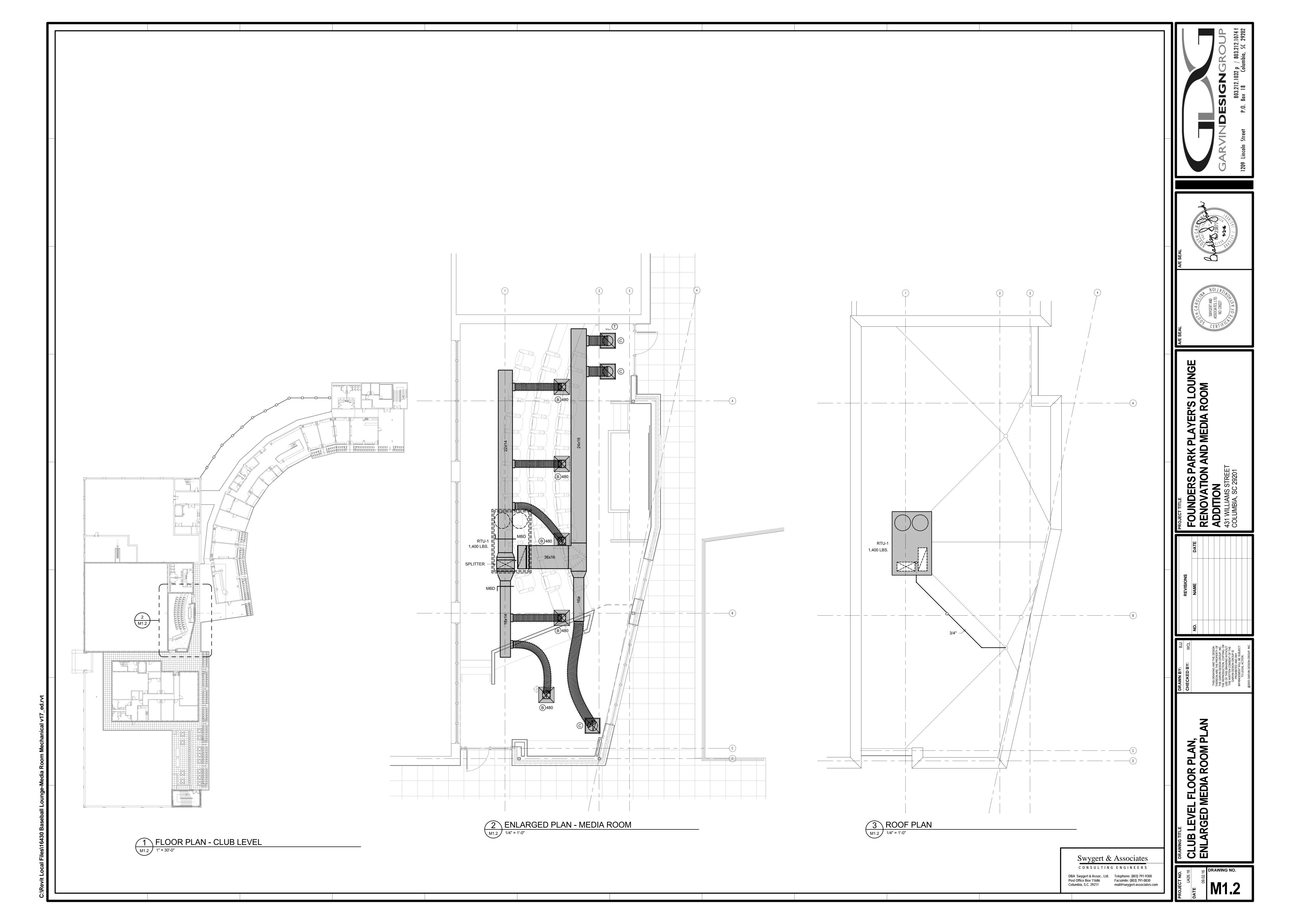




TIMMERMAN STRUCTURAL ENGINEERING

<u>NO</u>





- 1. PROVIDE WITH CERTIFIED SEISMIC/WIND RATED ROOF CURB.
- 2. PROVIDE WITH 100% ECONOMIZER, BAROMETRIC RELIEF DAMPER, THROUGH THE BASE ELECTRICAL CONNECTION, FACTORY NON-FUSED, DISCONNECT SWITCH, HAIL GUARDS, POWERED CONVENIENCE OUTLET, AND HINGED ACCESS PANELS. PROVIDE TWO STAGES OF COOLING WITH DUAL COMPRESSORS AND TWO-SPEED INDOOR FAN. DURING FIRST STAGE OF COOLING THE INDOOR FAN SHALL OPERATE AT LOW SPEED (66% FULL SPEED) AND ON A CALL FOR THE SECOND STAGE OF COOLING THE INDOOR FAN
- SHALL OPERATE AT FULL SPEED. 4. WALL MOUNTED CO₂ SENSOR BY CONTROLS CONTRACTOR.

AIR DISTRIBUTION SCHEDULE									
DESCRIPTION	MANUFACTURER	MODEL	FRAME	CFM	NECK SIZE	FACE SIZE	MAX NC	REMARKS	
). PLAQUE SUPPLY	PRICE	SPD AS	LAY-IN	226-400	10"ø	24"x24"	35	1,2	
). PLAQUE SUPPLY	PRICE	SPD AS	LAY-IN	401-600	12"ø	24"x24"	35	1,2	
RFORATED RETURN	PRICE	APDDR	LAY-IN	0-1,000	22"x22"	24"x24"	35	1,2	

PROVIDE WITH STANDARD WHITE PROVIDE ALUMINUM OR ALUMINIZ

ISOLATION AND SEISMIC SCHEDULE							
RISK CATEGORY = II				SEISMIC DESIGN CATEGORY = D			
EQUIPMENT TYPE/TAG	COMPONENT lp	ISOLATION SPECIFICATION		SEISMIC RESTRAINT SPECIFICATION	ISOLATION DEFLECTION		
RTU-1	1.0	N.	/A	SPEC X NOTES 1 & 2	N/A		
AIR DISTRIBUTION > 20 LBS	1.0	NONE		TWO 12 GA. WIRE TO STRUCTURE	N/A		
AIR DISTRIBUTION ≤ 20 LBS	1.0	NONE		NOTE 3	N/A		

- GRID, BUT REQUIRE NO ADDITIONAL RESTRAINT.

 	711 0011	2, (1	0 1,000		21 721	00	٠,٠
 E FINISH. IZED STEEL CONSTRUCTION.							
	IS	OLATION	AND SI	EISMIC	SCHEE	ULE	
RISK CATEGORY = II				S	EISMIC DESIGN	CATEGORY	= D
EQUIP	MENT	COMPONENT	ISOLA	ATION S	SEISMIC RESTR	AINT IS	OLATION

1.	ANCHOR BOLTS FOR NON-ISOLATED AND INTERNALLY ISOLATED EQUIPMENT SHALL BE SIZED
	BY THE SEISMIC RESTRAINT SUPPLIER.
^	DOOF CLIDDS MUST BE CEDTIFIED BY A DROFFCCIONAL ENGINEED FOR THE DECLIDED

2.	ROOF CORBS MOST BE CERTIFIED BY A PROFESSIONAL ENGINEER FOR THE REQUIRED
	SEISMIC AND WIND LOADS.
3.	DIFFUSERS WEIGHING LESS THAN 20 LBS. MUST ME MECHANICALLY ATTACHED TO CEILING

DESIGN CONDITIONS						
SEASON	OUTSIDE	INSIDE				
SUMMER	97° FDB / 78° FWB	75° FDB / 50% - 60% RH				
WINTER	22° FDB	70° FDB				
GENERAL NOTES						

GENERAL NOTES

- DO NOT SCALE DRAWINGS. SEE ARCHITECTURAL DRAWINGS AND REFLECTED CEILING PLANS FOR EXACT LOCATIONS OF DOORS, WINDOWS, AIR DISTRIBUTION, ETC. THIS CONTRACTOR SHALL VERIFY ALL EXISTING ITEMS AND LOCATIONS IN THE FIELD.
- ALL PIPING AND DUCTWORK LOCATIONS SHALL BE COORDINATED WITH WORK UNDER OTHER DIVISIONS OF THE SPECIFICATIONS TO AVOID INTERFERENCE.
- THIS CONTRACTOR SHALL COORDINATE STEEL OPENINGS AND EQUIPMENT SUPPORT WITH

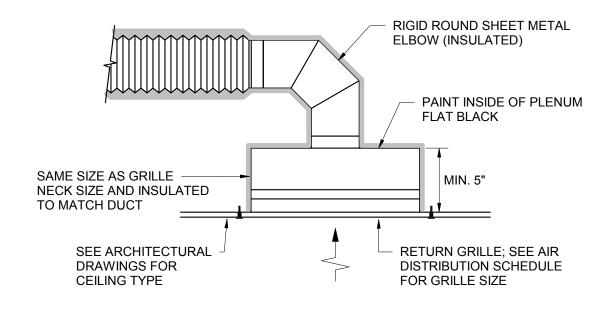
STEEL SHOP DRAWINGS TO CONFIRM DIMENSIONS MATCH WITH EQUIPMENT SUPPLIED.

- . EXISTING PIPE, DUCTWORK, CONDUIT, ETC. THAT INTERFERES WITH THE ROUTING OF NEW SYSTEMS SHALL BE RELOCATED. THIS CONTRACTOR SHALL INCLUDE THE COST OF SUCH IN
- HIS BID UNLESS NOTED OTHERWISE. ALL PIPING AND DUCTWORK INSULATION SHALL BE RUN CONTINUOUSLY THROUGH FLOORS,

ROOFS AND PARTITIONS.

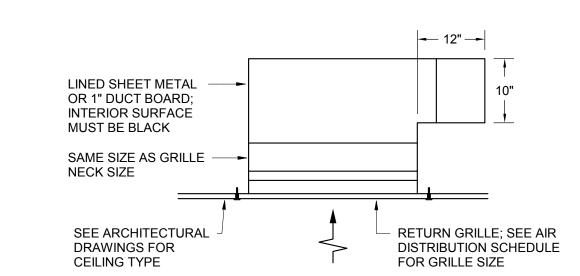
- ALL MECHANICAL ITEMS EXTENDING THROUGH WALLS AND ROOF SHALL BE FLASHED AND COUNTERFLASHED. COORDINATE WITH ROOFING CONTRACTOR.
- EXTEND ALL DRAIN LINES TO NEAREST ROOF DRAIN OR AS INDICATED SO ROUTED AS TO AVOID INTERFERENCE WITH PASSAGEWAYS AND MAINTENANCE. DRAINS FROM AIR
- CONDITIONING UNITS SHALL BE TRAPPED PER STATIC PRESSURE REQUIREMENTS. 8. ALL DUCTWORK SPECIFIED TO BE LINED SHALL BE INCREASED IN SIZE TO ALLOW FOR LINER.
- WHERE TRUNK DUCTS ARE ROUTED ABOVE INACCESSIBLE CEILINGS PROVIDE CABLE OPERATED REMOTE CONTROLLED VOLUME DAMPERS AT BRANCH TAKEOFFS. DAMPERS SHALL BE METROPOLITAN AIR TECHNOLOGY MODEL RT-150 OR APPROVED EQUAL.
- 10. SPACE ABOVE CEILING TO BE USED AS RETURN AIR PLENUM WHERE DUCT IS NOT INDICATED
- ABOVE RETURN AIR GRILLES. 11. ALL OPEN END DUCTS SHALL HAVE 1/4-INCH MESH GALVANIZED SCREEN IN REMOVABLE
- 12. WHERE 2'X2' LAY IN GRILLES ARE SPECIFIED IN HARD CEILINGS, A PLASTER FRAME SHALL BE
- PROVIDED SO THE GRILLE CAN LAY IN THE CEILING.
- 13. PROVIDE FOR ACCESS TO ALL EQUIPMENT REQUIRING CLEANING OR ADJUSTMENT PER MANUFACTURER'S INSTRUCTIONS. PROVIDE FULL SPACE FOR COIL REMOVAL AND REPLACEMENT FOR ALL HOT WATER AND CHILLED WATER AIR HANDLING UNITS.
- 14. THIS CONTRACTOR SHALL PROVIDE ALL ITEMS OF MISCELLANEOUS STEEL AS REQUIRED FOR INSTALLATION OF ALL MECHANICAL ITEMS.
- 15. THIS CONTRACTOR SHALL DO ALL CONTROL WIRING. DIVISION 26 WILL DO ALL POWER WIRING. ALL WIRING SHALL BE IN ACCORDANCE WITH NATIONAL ELECTRIC CODE. CONTROL WIRING SHALL BE CONCEALED WITHIN WALL AND ALL CONTROL WIRING SHALL BE ROUTED IN
- 16. LOCATE ALL SPACE CONTROL INSTRUMENTS 4'-0" ABOVE FINISHED FLOOR IN ACCORDANCE WITH ADA. COORDINATE LOCATIONS WITH ARCHITECTURAL ELEVATIONS TO AVOID ITEMS INCLUDING BUT NOT LIMITED TO CUSTOM FINISHES, FIXED CASEWORK, FURNITURE, AND DOOR SWINGS. IN THE EVENT OF CONFLICTS IN THE FIELD, THE CONTRACTOR SHALL BRING THIS TO THE ATTENTION OF THE A/E FOR FINAL APPROVAL OF LOCATION.
- 17. INSTRUMENT TEST HOLES SHALL BE LOCATED IN EACH SUPPLY DUCT OR ZONE DUCT, IN EACH RETURN AIR DUCT AND EACH OUTSIDE AIR DUCT.
- 18. CORRECT SETTINGS ON ALL BALANCING FITTINGS SHALL BE PERMANENTLY MARKED. PROVIDE ORANGE FLAGGING RIBBON ON EACH DAMPER HANDLE FOR EASY IDENTIFICATION.
- 19. ITEMS REMOVED UNDER THIS CONTRACT SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE DISPOSED OF PROPERLY.
- 20. THE HVAC SYSTEMS SHALL NOT BE OPERATED DURING HEAVY CONSTRUCTION OPERATIONS INCLUDING MASONRY, GYPSUM BOARD SANDING, HEAVY CLEANUP ACTIVITIES, OR OTHER ACTIVITIES THAT CREATE AIRBORNE PARTICLES OR DEBRIS. ALL SYSTEMS SHALL BE CLEAN OF CONSTRUCTION DEBRIS, DUST AND DIRT AT FINAL COMPLETION. DUCT CLEANING AND UNIT/COIL CLEANING SHALL BE PERFORMED AS REQUIRED.

LEGEND					
SYMBOL	DESCRIPTION				
} D ——}	DRAIN LINE				
جـــر , وـــــخ	PIPE TURNS TO, AWAY				
A 100	TYPE "A" DIFFUSER, 100 CFM				
<u>-</u> 100	EXISTING/RELOCATED DIFFUSER, 100 CFM				
Ū	TEMPERATURE SENSOR				
FD	FIRE DAMPER				
FSD	COMBINATION FIRE/SMOKE DAMPER W/ 120V ACTUATOR				
MBD	MANUAL OPPOSED BLADE BALANCING DAMPER				
\bowtie	RECTANGULAR SUPPLY DUCTWORK				
\otimes	OVAL SUPPLY DUCTWORK				
	RETURN, EXHAUST, FRESH AIR DUCTWORK				
48x24	48"x24" RECTANGULAR DUCT				
48/24	48"x24" OVAL DUCT				
◀	1" DOOR UNDERCUT BY GENERAL CONTRACTOR				
AFF	ABOVE FINISHED FLOOR				
•	CONNECTION POINT OF NEW TO EXISTING				

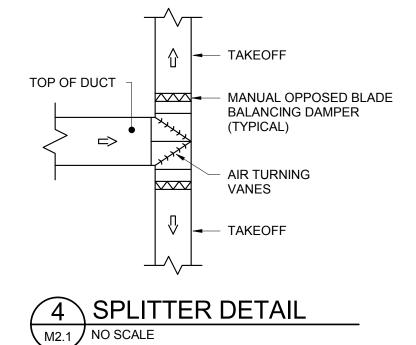


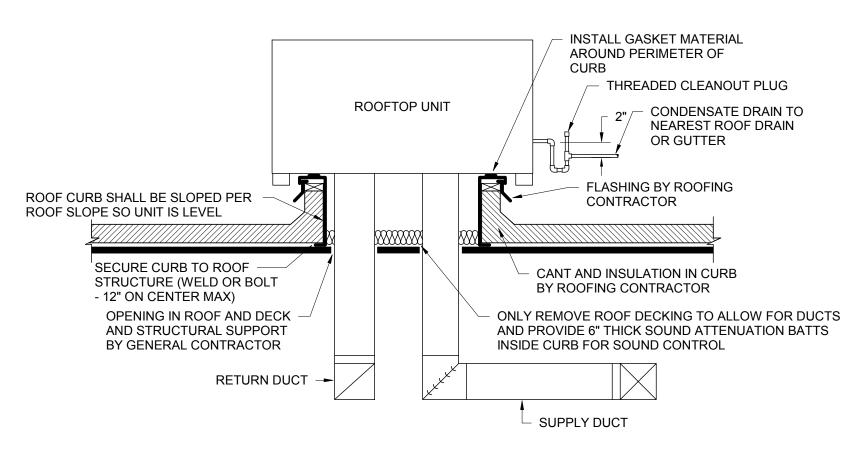
5 DUCTED RETURN GRILLE DETAIL

NO SCALE

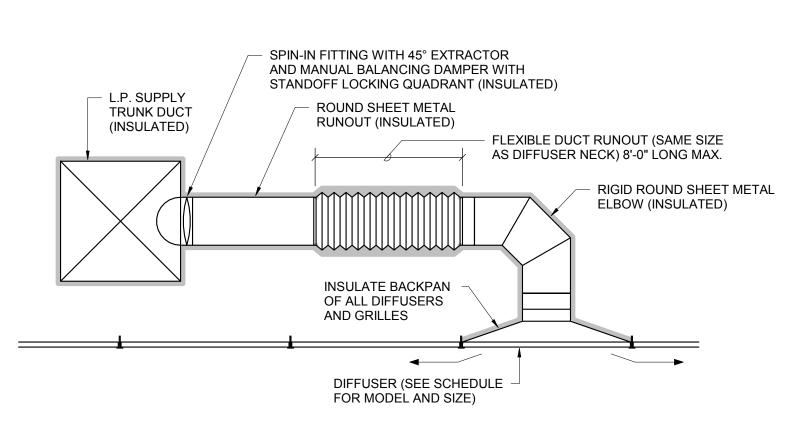


3 PLENUM RETURN GRILLE DETAIL M2.1 NO SCALE





1 ROOFTOP UNIT DETAIL M2.1 NO SCALE



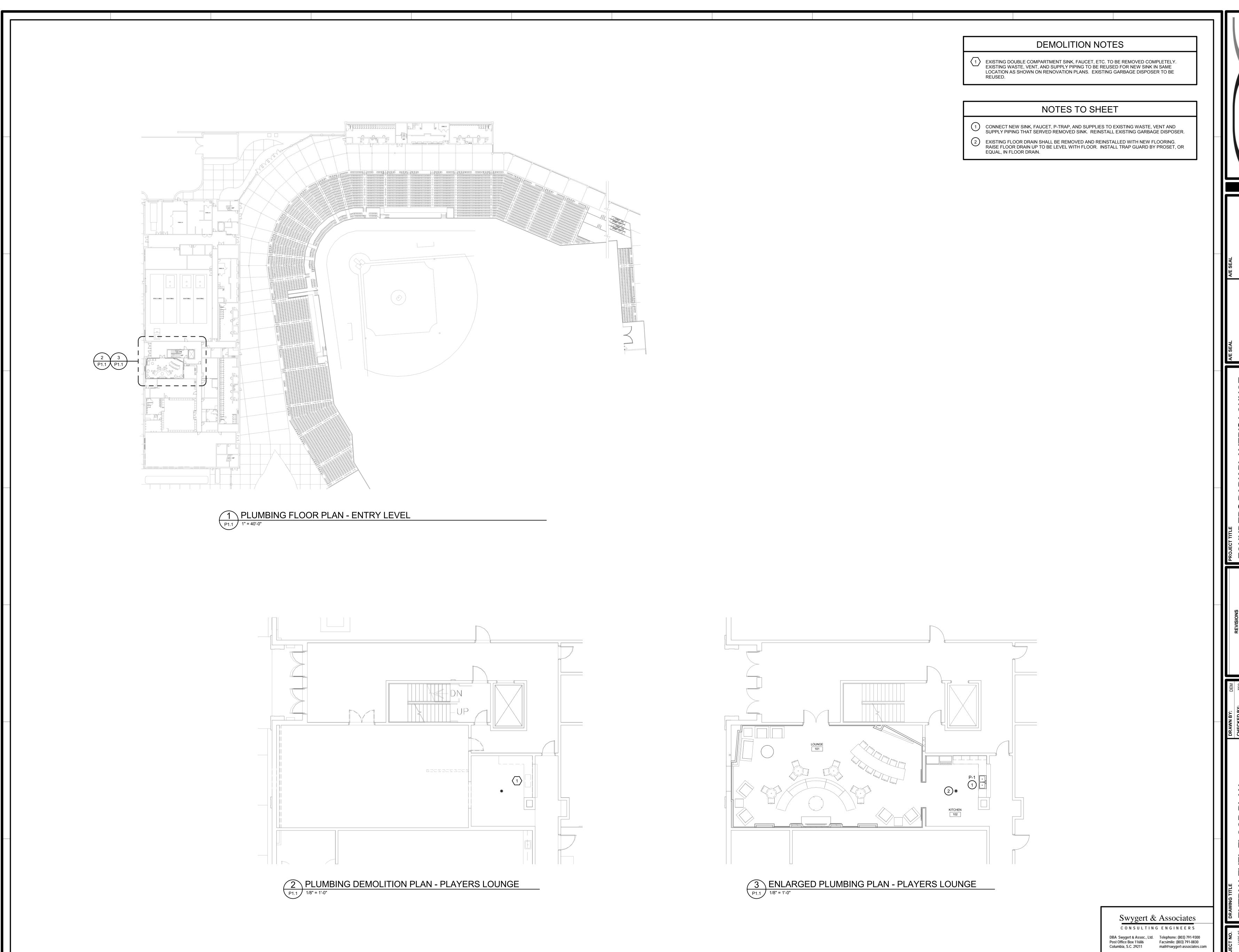
2 CEILING DIFFUSER DETAIL M2.1 NO SCALE

Swygert & Associates

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

PLAYER'S LOUD MEDIA ROOM

CONSULTING ENGINEERS DBA Swygert & Assoc., Ltd. Telephone: (803) 791-9300



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EL FLOOR PLAN, N PLAN, ENLARGED DUNGE PLANS

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BEMOLITION PLAN,

PLAYERS LOUNGE

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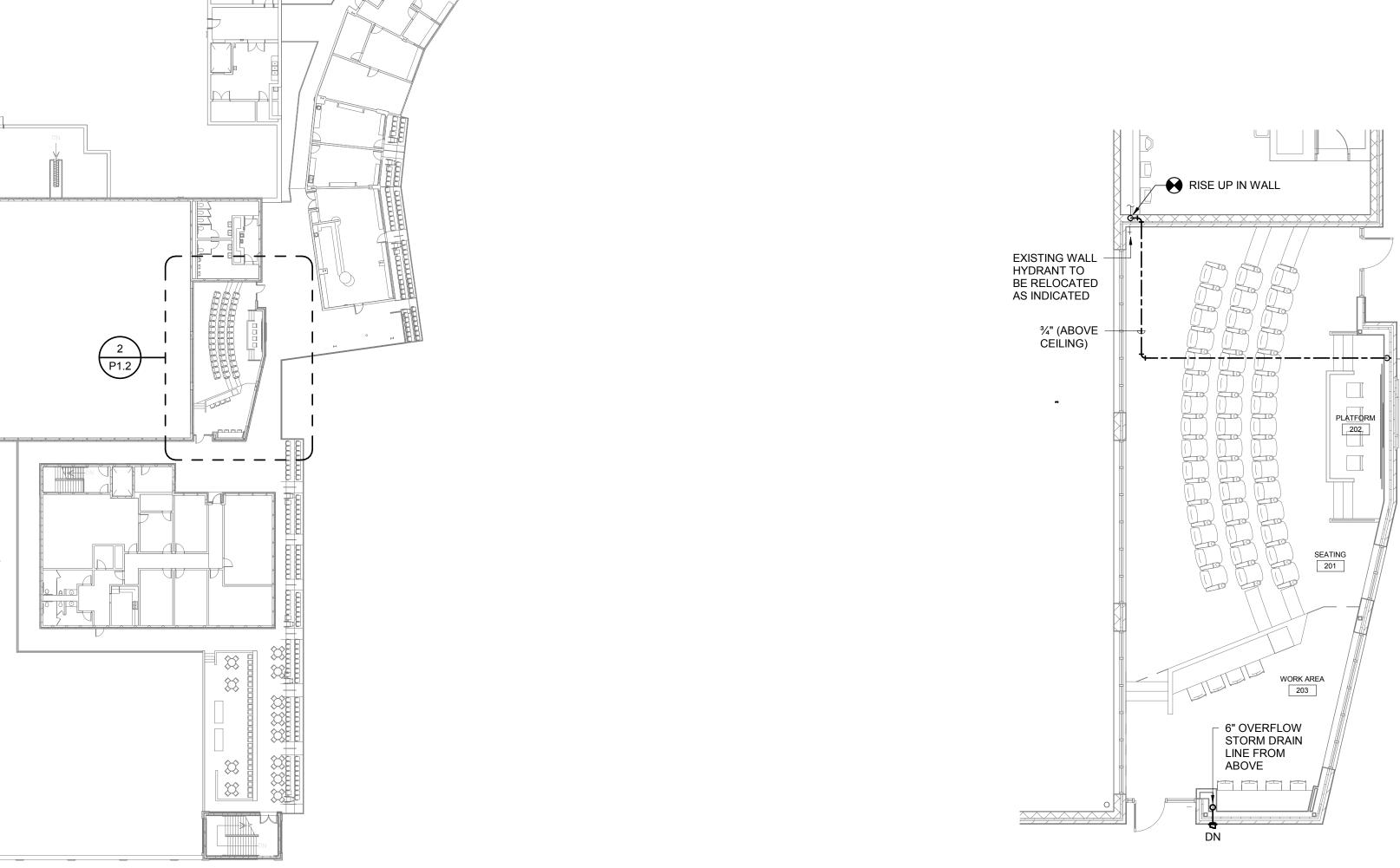
ON DUMAND

	PLUMBING FIXTURE SCHEDULE							
						MIN. S	UPPLY	
P. NO.	FIXTURE	MFGR.	NAME	MFGRS. NO.	SIZE	CW	HW	REMARKS
P-1	SINK	ELKAY	LUSTERTONE	LRAD-3321-65	33"x21¼"	1/2"	1/2"	WITH DELTA MODEL 400LF-HD FAUCET WITH SPRAY HOSE, LKPD1 STRAINERS, CONTINUOUS WASTE, McGUIF H2167 1/2" CAST BRASS SUPPLIES WITH STOPS, AND McGUIRE 8912 1-1/2" P-TRAP.
RD	ROOF DRAIN	ZURN		Z-121-C				WITH 12" DIAMETER CAST IRC DOME AND UNDERDECK CLAMP.
ORD	OVERFLOW ROOF DRAIN	ZURN		Z-121-89-C				WITH 12" DIAMETER CAST IRC DOME, 2" HIGH WATER DAM, AND UNDERDECK CLAMP.
DN	DOWNSPOUT NOZZLE	ZURN		ZARB-199				WITH PLAIN BRONZE BODY. MOUNTED SO THAT BOTTOM OF NOZZLE IS APPROXIMATEL 8" ABOVE FINISHED SLAB.

GENERAL NOTES

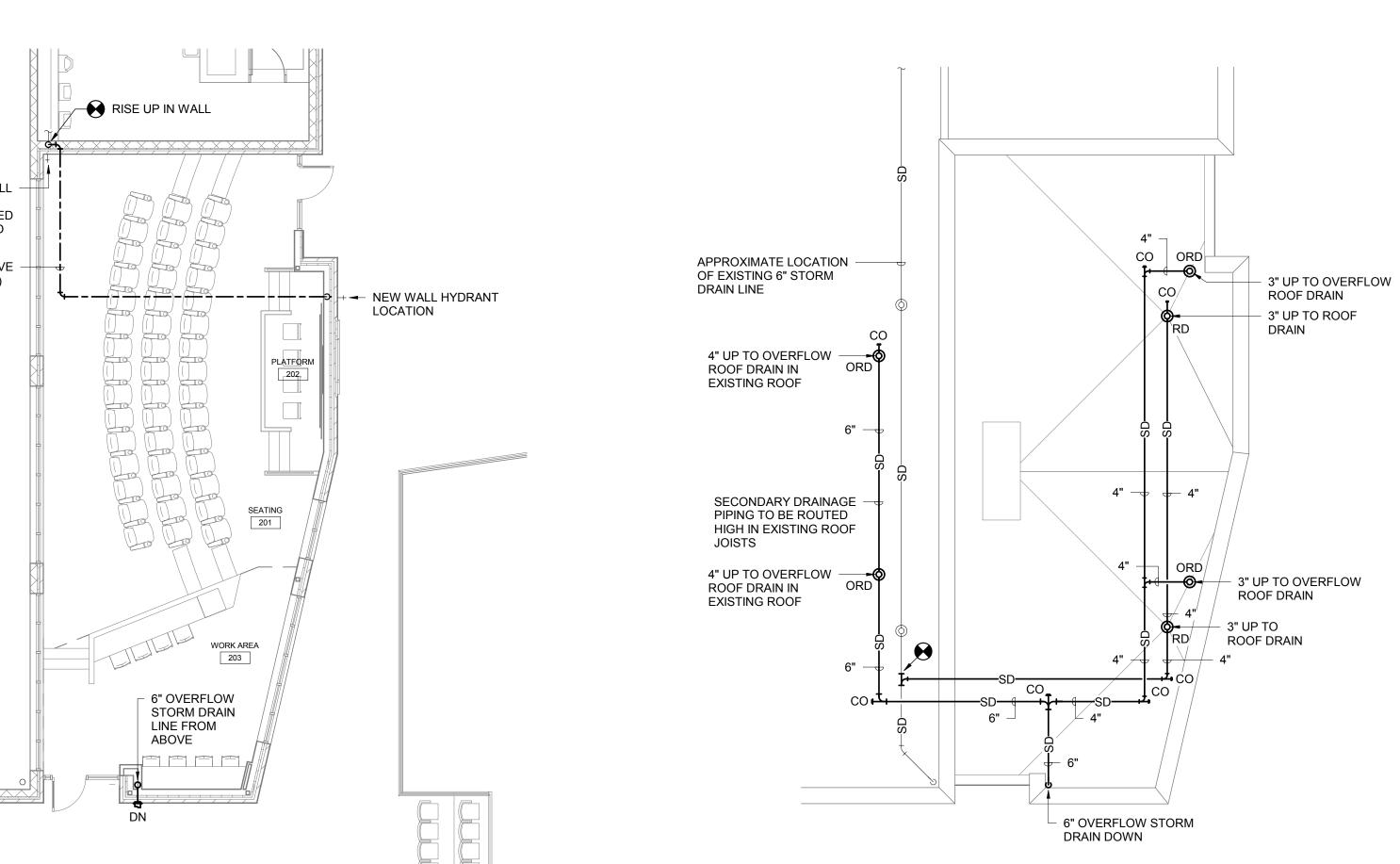
- ALL WORK SHALL BE PERFORMED ACCORDING TO ALL LOCAL, STATE, NATIONAL CODES, AND THE 2015 INTERNATIONAL PLUMBING CODE.
- 2. DO NOT SCALE DRAWINGS. SEE ARCHITECTURAL DRAWINGS FOR EXACT DIMENSIONS, FIXTURE LOCATIONS, ETC.
- 3. EXCEPT WHERE PIPE SPACE IS PROVIDED OR UNLESS NOTED OTHERWISE, ALL SUPPLY, WASTE AND VENT RISERS SHALL BE RUN IN WALLS AND PARTITIONS.
- 4. COORDINATE CLOSELY WITH ALL WORK DONE UNDER OTHER DIVISIONS OF THE SPECIFICATIONS TO AVOID INTERFERENCE AND CONFLICT.
- 5. ALL PIPING INSULATION SHALL BE RUN CONTINUOUSLY.
- 6. STORM DRAINAGE PIPING SHALL PITCH A MINIMUM OF 1/8-INCH PER FOOT.
- 7. THIS CONTRACTOR SHALL MAKE ALL CONNECTIONS TO ROOF DRAINS AND OVERFLOW ROOF DRAINS INSTALLED BY GENERAL CONTRACTOR. PLUMBING CONTRACTOR SHALL FURNISH ROOF DRAINS AND OVERFLOW ROOF DRAINS TO GENERAL CONTRACTOR FOR INSTALLATION BY OTHERS.
- 8. EXISTING INFORMATION TAKEN FROM OWNERS RECORD SET OF DRAWINGS DATED JUNE

	LEGEND					
SYMBOL DESCRIPTION						
─ – ─	DOMESTIC COLD WATER LINE					
⊱ —SD— →	STORM DRAIN LINE					
وحج , وصح	PIPE TURNS TO, AWAY					
CO	CLEANOUT (ABOVE CEILING OF FLOOR BELOW)					
•	CONNECTION POINT OF NEW TO EXISTING					



PLUMBING FLOOR PLAN - CLUB LEVEL

1" = 30'-0"



2 ENLARGED PLUMBING PLAN - MEDIA ROOM

1/8" = 1'-0"

MEDIA ROOM ROOF PLAN
P1.2 1/8" = 1'-0"

Swygert & Associates
consulting engineers

DBA Swygert & Assoc., Ltd.
Post Office Box 11686
Columbia, S.C. 29211

Telephone: (803) 791-9300
Facsimile: (803) 791-0830
mail@swygert-associates.com

DRAWING NO.

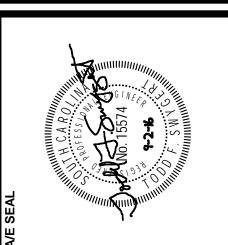
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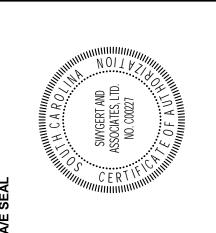
P1.20

P1.20

P1.20









FOUNDERS PARK PLAYER'S LOUR
RENOVATION AND MEDIA ROOM
ADDITION
431 WILLIAMS STREET

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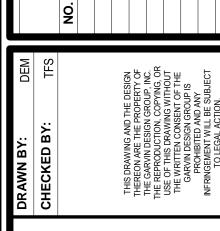
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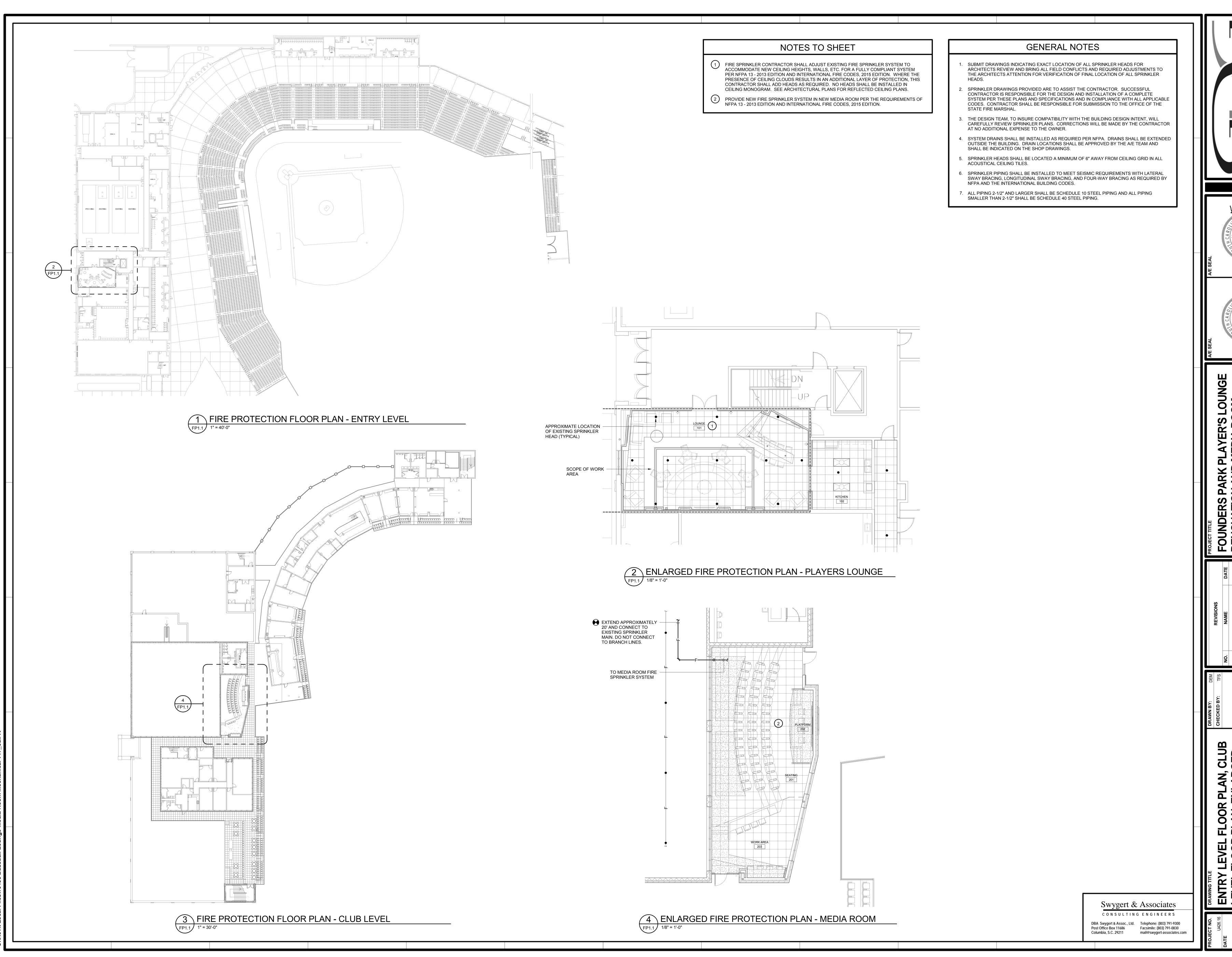
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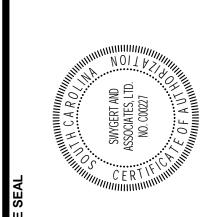
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DATE











GENERAL "ELECTRICAL" NOTES

- BRANCH CIRCUIT WIRING SHALL BE NO. 12 AWG UNLESS NOTED OTHERWISE. WHERE CONDUCTOR AND RACEWAY SIZE ARE SHOWN AT HOMERUN, SUCH SIZE SHALL BE USED FOR THE ENTIRE CIRCUIT. EXCEPTION: FINAL CONNECTION TO DEVICES, IN OUTLET BOXES, IS NOT REQUIRED TO BE LARGER THAN NO.
- 20A/120V BRANCH CIRCUITS EXCEEDING 100' IN LENGTH FROM PANEL TO FARTHEST DEVICE OR FIXTURE SHALL USE NO. 10 CONDUCTORS AND 3/4"C.
- PRIOR TO ROUGH-IN, COORDINATE THE LOCATION AND MOUNTING HEIGHT OF ALL WALL AND CEILING MOUNTED DEVICES WITH THE ARCHITECTURAL ELEVATIONS, MILLWORK SHOP DRAWINGS, AND EXISTING CONDITIONS. IN THE EVENT OF A CONFLICT, NOTIFY THE ARCHITECT. MINOR ADJUSTMENTS IN DEVICE
- LOCATION, I.E. 5'-0" IN ANY DIRECTION SHALL BE DONE AT NO ADDITIONAL COST TO THE OWNER. COORDINATE THE LOCATION OF ALL FLOOR-MOUNTED OUTLETS WITH THE ARCHITECT PRIOR TO ROUGH-IN. OUTLET BOXES FOR SWITCHES, RECEPTACLES, ETC MOUNTED ON OPPOSITE SIDES OF FIRE RATED PARTITIONS SHALL NOT BE MOUNTED IN THE SAME WALL CAVITY. SEPARATE WALL PENETRATIONS BY MOUNTING ON
- OPPOSITE SIDES OF WALL STUDS OR OTHER VERTICAL STRUCTURAL MEMBER IN THE WALL. ALL FLOOR BOXES SHALL BE INSTALLED TO MAINTAIN THE FIRE RATING OF THE FLOOR. COORDINATE CORE DRILLING HOLES IN FLOOR WITH STRUCTURAL ENGINEER.
- RACEWAYS SHALL BE INSTALLED CONCEALED IN NEW WALL CONSTRUCTION ABOVE CEILINGS, BELOW FLOOR, AND IN OTHER CAVITIES TO THE GREATEST EXTENT POSSIBLE. WHERE EXPOSED RACEWAYS MUST BE USED, LAYOUT RACEWAYS TO MINIMIZE THE NUMBER OF VERTICAL RUNS.
- WHERE LIGHT SWITCH AND ABOVE COUNTER RECEPTACLES ARE INDICATED TO BE MOUNTED ADJACENT TO EACH OTHER, THE DEVICES SHALL BE MOUNTED AT THE SAME HEIGHT UNDER A COMMON DEVICE PLATE. IN THE CASE WHERE THE VOLTAGES ARE DIFFERENT, THEY SHALL BE MOUNTED IN DIFFERENT OUTLET BOXES.
- THE ARRANGEMENT, GROUPING, AND ROUTING OF BRANCH CIRCUITS SHALL BE PROVIDED AT THE CONTRACTOR'S DISCRETION IN ACCORDANCE WITH GENERALLY ACCEPTED PRACTICE FOR ELECTRICAL WORK,
- THE NATIONAL ELECTRICAL CODE REQUIREMENTS, LOCAL ORDINANCES, AND THE FOLLOWING: A COMMON NEUTRAL MAY BE INSTALLED IN A HOMERUN FOR 2 OR 3 BRANCH CIRCUITS ONLY IF A MEANS TO SIMULTANEOUSLY DISCONNECT ALL UNGROUNDED CONDUCTORS AT THE POINT WHERE THE BRANCH CIRCUITS ORIGINATE IS PROVIDED PER ARTICLE 210.4(B) OF THE NATIONAL ELECTRICAL CODE.
- .2 MULTIPLE SINGLE-POLE BRANCH CIRCUITS (UP TO 3 HOTS, 3 NEUTRALS, 1 GROUND) RATED FOR 30-AMPS OR LESS MAY BE PULLED INTO A SINGLE RACEWAY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SIZING
- THE RACEWAYS AND DERATING CONDUCTORS PER NEC ARTICLE 310.15. 9.3 BRANCH CIRCUIT, FEEDER & COMMUNICATION CIRCUITS SHALL BE ROUTED OVERHEAD UNLESS PRIOR
- APPROVAL HAS BEEN GRANTED BY THE ARCHITECT AND ENGINEER.
- 9.4 A GROUND CONDUCTOR SHALL BE PROVIDED IN ALL RACEWAYS UNLESS NOTED OTHERWISE. 10 WHERE FLOOR MOUNTED RECEPTACLES/DEVICES ARE GROUPED, PROVIDE DEVICES GROUPED IN ONE FLOOR
- 11 THE USE OF MC CABLE IS NOT ALLOWED.
- 12 SEAL ALL EXISTING AND NEW FIRE RATED WALL AND FLOOR PENETRATIONS IN THE CONSTRUCTION AREA 13 SEE THE ARCHITECTURAL DRAWINGS FOR ALL LOCATIONS OF FIRE RATED WALLS. 14 WHEREVER ON THE ELECTRICAL DRAWINGS THE WORD "PROVIDE" IS USED, IT SHALL BE INFERRED TO MEAN
- "FURNISH AND INSTALL".

SYMBOL

GENERAL "SIGNAL" NOTES

- PROVIDE CONDUIT FOR HVAC CONTROL CIRCUITS AS REQUIRED TO INTER-CONNECT HVAC UNIT TO CONTROL CIRCUITS. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH MECHANICAL CONTRACTOR AND CONTROLS PROVIDER TO DETERMINE SCOPE OF CONDUITS REQUIRED FOR HVAC CONTROLS. ELECTRICAL CONTRACTOR SHALL PROVIDE ALL REQUIRED CONDUIT. COORDINATE POINTS OF CONNECTION WITH DIVISION 23. PROVIDE PULL CORD IN ALL EMPTY CONDUITS. SEE MECHANICAL PLANS FOR EXACT LOCATIONS OF ALL HVAC EQUIPMENT AND CONTROL DEVICES.
- EXTEND A 1" CONDUIT WITH PULL WIRE FROM EACH COMMUNICATIONS OUTLET TO (NEAREST CABLE-TRAY OR THE COMMUNICATION BACKBOARD) (ABOVE THE LAY IN CEILING IN THE CORRIDOR). TURN CONDUIT 12" INTO CEILING CAVITY A MINIMUM OF 6" ABOVE THE CEILING AND TERMINATE WITH AN INSULATED
- PROTECTIVE BUSHING. COMMUNICATION OUTLET BOX SHALL BE 4" SQUARE WITH SINGLE GANG RING. PROVIDE ALL DUCT SMOKE DETECTORS AND ACCESSORIES NECESSARY FOR INTERLOCKING WITH MECHANICAL EQUIPMENT (AHU'S, SMOKE DAMPERS, ETC). COORDINATE WITH MECHANICAL PLANS FOR LOCATIONS AND REQUIREMENTS. DETECTORS SHALL BE FURNISHED BY ELECTRICAL CONTRACTOR, INSTALLED BY MECHANICAL CONTRACTOR, WIRED TO FIRE ALARM SYSTEM BY ELECTRICAL CONTRACTOR, AND TIED TO MECHANICAL CONTROLS FOR AHU SHUTDOWN BY MECHANICAL CONTRACTOR.
- THESE DOCUMENTS MAY NOT INCLUDE ENTIRE ELECTRICAL INFRASTRUCTURE REQUIRED TO SUPPORT THE BUILDING AUTOMATION SYSTEM. COORDINATE WITH BAS PROVIDER ON ALL NECESSARY INFRASTRUCTURE FOR
- A COMPLETE AND WORKING SYSTEM. OUTLET BOXES SHALL BE EXTRA DEEP. BOX DEPTH SHALL BE WALL THICKNESS IF POSSIBLE. INDUSTRY STANDARDS SHALL BE USED IF WALL THICKNESS DEPTH IS NOT POSSIBLE
- 6 REMOVE ALL EXPOSED ABANDONED COMMUNICATION CABLE FOUND DURING THE CONSTRUCTION PROCESS. SUPPORT ALL EXISTING REMAINING CABLE PER THE NEC.
- 7 CABLE SHALL BE CONCEALED IN ALL FINISHED AREAS AND ROUTED PARALLEL OR PERPENDICULAR TO THE BUILDING STRUCTURE.
- 8 ALL FIRE ALARM CABLE SHALL BE INSTALLED IN METALLIC CONDUIT. COORDINATES WITH FIRE ALARM SYSTEM MANUFACTURER FOR CABLE ROUTING AND QUANTITIES.
- 9 ALL COMMUNICATION DROPS SHALL BE UNSLICED HOME RUNS FROM DEVICE PLATE TO THE COMMUNICATION RACK LOCATION. PROVIDE 10 FEET OF COILED CABLE AT RACK LOCATION FOR OWNERS USE. PROVIDE 5'-0" OF COIL IN CABLE-TRAY TO NEAREST DEVICE.
- 10 ALL VOICE AND DATA COMMUNICATION CABLES SHALL BE LESS THAN 295 FEET LONG SUPPORT CABLES WITH J-HOOKS AND D-RINGS. J-HOOKS SHALL BE PROVIDED AT INTERVALS LESS THAN 5 FEET. PROVIDE METAL SLEEVES FOR ALL WALL PENETRATIONS. DO NOT SUPPORT CABLES FROM STRUCTURE. SEAL ALL FIRE RATED WALL PENETRATIONS, SEE ARCHITECTURAL SPECIFICATIONS AND DRAWINGS FOR LOCATIONS AND REQUIREMENTS.

	LAMPING	ELECT	RICAL	
		FIXT.		
NO.	LAMP TYPE	LOAD	VOLTS	MOUNTING REMARKS
_	LED (524 LM/FT, 9.7 W/LF, 830)	19	277 V	RECESSED
_	LED (524 LM/FT, 9.7 W/LF, 830)	19	277 V	RECESSED
-	LED (1000 LUMENS, 20 W, 830)	20	277 V	RECESSED
_	LED (3800 LUMENS, 57 W, 830)	57	277 V	GRID
_	LED (3800 LUMENS, 57 W, 830)	57	277 V	GRID
_	LED (900 LUMENS, 7 W/FT, 830)	14	277 V	WALL MOUNTED
_	LED (1700 LUMENS, 18 W, 4000K)	18	277 V	WALL 8'0"AFF
_	LED (25W, 830)	25	120 V	2" PIPE
_	LED (1500 LUMENS, 21 W,	21	277 V	RECESSED

GRID

3 | 277 V | WALL MOUNTED/CEILING

LIGHT FIXTURE SCHEDULE NOTES

- 1 LUMENS LISTED IN SCHEDULE REPRESENT DELIVERED LUMENS OF FIXTURES.
- 2 THREE DIGIT NUMBERS LISTED IN LAMP COLUMN REPRESENT CRI AND COLOR TEMPERATURE. FIRST DIGIT INDICATES MINIMUM CRI AND LAST TWO DIGITS INDICATE COLOR TEMPERATURE.

LIGHT FIXTURE SCHEDULE

CAT. #

LP2SMB (LENGTH) DRY

LED MED 3000K LED

0/10V/10% EXT AL IMV

EMC (MC)

LP2SMB (LENGTH) DRY

LED MED 3000K LED

EMC (MC)

0/10V/10% EXT AL IMV

C3L085N 1Z10V C3L085DL

01 30K 8 C3LDL M CL P

CF S 24G PG 38L 35 U

LAG

CF S 24G PG 38L 35 U

LP2WGF 2' NONE NONE

LED LOW 3000K

0/10V/10% DG AL UNV NONE

111L-4-20LA-NW-UNIV-

BLP-DL

E025-ND/BD-E025

C4L 15 N 2 VB

Z10V/C4L 10 DL 30K

CCL W VB

2 TLY G 32L

2 TLY G 32L

835-2-GL-UNV-DIM

45VL 1 RM

835-2-GL-UNV-DIM

FIXTURE SPECIFICATIONS

MANUFACTURER

ARCHITECTURAL

LIGHTING WORKS

ARCHITECTURAL

LIGHTING WORKS

PHILIPS

PHILIPS

ARCHITECTURAL

LIGHTING WORKS

GARDCO

VIDESSENCE

PHILIPS

FIXTURE DESCRIPTION

RECESSED SLOT LED

RECESSED SLOT LED

FIXTURE W/ GTD

3" LED DOWNLIGHT

2'X4' DIRECT/INDIRECT

2'X4' DIRECT/INDIRECT

TROFFER W/ GTD

LED WALL GRAZER

EXISTING FIXTURE. SEE DEMOLTION/RENOVATION SCHEDULE.

EXTERIOR EGRESS

LIGHTING

LED TV LIGHTING FIXTURE

LED DOWNLIGHT

2'X2' DECORATIVE

2'X2' DECORATIVE

RECESSED LED FIXTURE

ARCHITECTURAL LED

EDGE—LIT EXIT SIGN

RECESSED LED FIXTURE

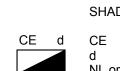
TROFFER

FIXTURE

- EXAMPLE: 830 INDICATES MINIMUM CRI OF 80 AND A COLOR TEMPERATURE OF 3000K. 3 SEE ARCHITECTURAL RCP AND ELEVATIONS FOR EXACT LOCATION AND MOUNTING HEIGHTS.
- 4 CONFIRM QUANTITIES OF FIXTURES SHOWN IN RCP MATCH QUANTITIES SHOWN ON ELECTRICAL PLANS PRIOR TO BID. IF NO DISCREPANCIES ARE NOTED PRIOR TO BID THE HIGHEST QUANTITY OF EACH FIXTURE TYPE SHOWN SHALL BE PROVIDED.

LIGHT FIXTURE PLAN KEY

SHADING INDICATES EMERGENCY FIXTURE USED BY GENERATOR



= UPPERCASE LETTER / LETTERS INDICATE FIXTURE TYPE = LOWERCASE LETTER INDICATES SWITCH IDENTIFICATION = INDICATES NON SWITCHED "NIGHT LIGHT" / "EMERGENCY" NL A:2 A:9 = DESIGNATES PANEL NAME: CIRCUIT NUMBER

39 277 V

39 | 277 V |

LED (3200

LUMENS, 39 W,

LED (3200

LUMENS, 39 W,

- | LED (INCLUDED) |

ALL "EM" FIXTURES INDICATED IN PLAN SHALL BE CONNECTED TO GENERATOR. UTILIZE A GENERATOR TRANSFER DEVICE (GTD) WHERE INDICATED ON PLAN TO ALLOW FOR LOCAL SWITCHING. "NL" FIXTURES SHALL HAVE ABSOLUTELY NO LIGHTING CONTROL & SHALL BE OPERATIONAL AT ALL

GENERAL "POWER" NOTES

- ALL BRANCH CIRCUITS INDICATED ON THESE PLANS TO BE LARGER THAN NO. 12 AWG SHALL BE SIZED AS INDICATED FOR THE ENTIRE LENGTH OF THE CIRCUIT.
- WHEN A RECEPTACLE IS INDICATED TO BE MOUNTED ADJACENT TO A COMPUTER/TELEPHONE/ TELEVISION OUTLET, THE DEVICE(S) SHALL BE MOUNTED WITHIN 6" CENTER-TO-CENTER. WHERE SPEED CONTROLLER IS INDICATED TO BE PROVIDED WITH FANS, IT SHALL BE PROVIDED BY
- MECHANICAL CONTRACTOR AND INSTALLED BY ELECTRICAL CONTRACTOR. PROVIDE ENGRAVED FACEPLATES USING 1/8" HIGH BLACK LETTERS ON COVER PLATE OF ALL RECEPTACLES, SWITCHES & WALL MOUNTED DEVICES INDICATING PANEL AND BRANCH CIRCUIT TO WHICH EACH DEVICE IS
- CONNECTED. PROVIDE LABEL ON INSIDE FACE OF COVER PLATE OF ALL RECEPTACLES, SWITCHES & WALL MOUNTED DEVICES INDICATING PANEL AND BRANCH CIRCUIT TO WHICH EACH DEVICE IS CONNECTED.

GENERAL "DEMOLITION" NOTES

- 1 ALL ELECTRICAL EQUIPMENT TO BE REMOVED SHALL REMAIN THE PROPERTY OF THE OWNER. THE CONTRACTOR SHALL NOT DISPOSE OF ANY MATERIALS UNTIL RELEASED BY OWNER'S PROJECT MANAGER. MATERIALS THAT OWNER'S PROJECT MANAGER CHOOSES TO RETAIN SHALL BE DELIVERED BY THE CONTRACTOR TO A LOCATION DESIGNATED BY THE PROJECT MANAGER. ALL OTHER MATERIALS SHALL BE PROPERLY DISPOSED OF BY THE CONTRACTOR.
- REMOVE ALL EXPOSED ABANDONED COMMUNICATION CABLE FOUND DURING THE CONSTRUCTION PROCESS. SUPPORT ALL EXISTING REMAINING CABLE PER THE NEC.
- BELECTRICAL DEVICES NOT SHOWN ON WALLS TO BE DEMOLISHED SHALL BE DEMOLISHED AT NO ADDITIONAL COST TO OWNER.
- 4 ELECTRICAL DEVICES NOT SHOWN ON CEILINGS OR WALLS TO REMAIN SHALL REMAIN IN PLACE. PROTECT FROM DAMAGE DURING CONSTRUCTION
- 5 ELECTRICAL DEVICES NOT SHOWN ON CEILINGS TO BE REMOVED SHALL BE TEMPORARILY DISCONNECTED AND REMOVED DURING DEMOLITION AND RE-INSTALLED ON NEW CEILING IN SAME LOCATION.

GENERAL "LIGHTING" NOTES

- SEE ARCHITECTURAL REFLECTED CEILING PLAN FOR THE EXACT LOCATION OF ALL CEILING MOUNTED LIGHTING
- 2 LIGHTING FIXTURE CATALOG NUMBERS ARE INDICATIVE OF THE STYLE OF FIXTURE REQUIRED. CONTRACTOR SHALL PROVIDE FIXTURES WITH THE PROPER TRIM, VOLTAGE AND OPTIONS NECESSARY FOR INSTALLATION. 3 DOUBLE—FACED EXIT FIXTURES SHALL BE OF THE SAME MANUFACTURER & SERIES AS THE SINGLE TYPE
- 4 ALL EXIT SIGNS SHALL BE CONNECTED TO LOCAL LIFE SAFETY LIGHTING CIRCUIT AHEAD OF ALL SWITCHING. 5 ALL FLUORESCENT FOUR FOOT LIGHT FIXTURES SHALL BE EQUIPPED WITH PROGRAMMABLE START ELECTRONIC

MULTI-LEVEL SWITCHING CONFIGURATION ENTAILS ONE SWITCH CONTROLS ALL INBOARD LAMPS, THE OTHER

6 REFER TO ARCHITECTURAL DRAWINGS FOR MOUNTING DETAILS OF LIGHT FIXTURE TO ACOUSTICAL CEILING SYSTEM AND STRUCTURE.

SWITCH CONTROLS ALL OUTBOARD LAMPS.

ELECTRICAL SYMBOL LEGEND SYMBOL DESCRIPTION

	SYMBOL	DESCRIPTION	SYMBOL	
	φ	SINGLE RECEPTACLE (WALL MOUNTED @ 18"AFF)	F	FIRE ALARM PULL STATION (WALL MOUNTED @ 48" AFF TOP OF BOX)
	\bigoplus	DUPLEX RECEPTACLE (WALL MOUNTED @ 18"AFF)	А	FIRE ALARM AUDIBLE DEVICE (WALL MOUNTED @ 7'-6" AFF)
	•	DUPLEX RECEPTACLE (GFI TYPE @ 18"AFF)	V	FIRE ALARM VISUAL DEVICE (WALL MOUNTED @ 7'-6" AFF)
	P	DUPLEX RECEPTACLE (USB TYPE @ 18"AFF)	A/V	FIRE ALARM AUDIBLE/VISUAL DEVICE (WALL MOUNTED @ 7'-6" AFF)
	 	DUPLEX RECEPTACLE (@ 6" ABOVE COUNTER)	A	FIRE ALARM AUDIBLE DEVICE (CEILING MOUNTED)
_	***	DUPLEX RECEPTACLE (GFI TYPE @ 6" ABOVE COUNTER)		FIRE ALARM VISUAL DEVICE (CEILING MOUNTED)
	•	DUPLEX RECEPTACLE (USB TYPE @ 6" ABOVE COUNTER)	A/V	FIRE ALARM AUDIBLE/VISUAL DEVICE (CEILING MOUNTED)
	# #	QUAD RECEPTACLE (WALL MOUNTED @ 18"AFF)	<u> </u>	SMOKE DETECTOR (WALL MOUNTED)
	 	QUAD RECEPTACLE (GFI TYPE @ 18"AFF)	<u>\$</u>	SMOKE DETECTOR (CEILING MOUNTED)
	<u>"</u>	QUAD RECEPTACLE (USB TYPE @ 18"AFF)	(D)	SMOKE DETECTOR (DUCT MOUNTED)
	#	QUAD RECEPTACLE (@ 6" ABOVE COUNTER)	9	HEAT DETECTOR (WALL MOUNTED)
	 	QUAD RECEPTACLE (GFI TYPE @ 6" ABOVE COUNTER)	<u>+</u>	HEAT DETECTOR (CEILING MOUNTED)
	•	QUAD RECEPTACLE (USB TYPE @ 6" ABOVE COUNTER)	\Diamond	REMOTE TEST STATION FOR DUCT MOUNTED DETECTORS
	•	DUPLEX RECEPTACLE (CEILING MOUNTED)	\Diamond	(WALL MOUNTED) REMOTE TEST STATION FOR DUCT MOUNTED DETECTORS
		DUPLEX RECEPTACLE (FLOOR MOUNTED)		(CEILING MOUNTED) FIRE ALARM TAMPER SWITCH
	<u></u>	QUADPLEX RECEPTACLE (CEILING MOUNTED)	P	FIRE ALARM PRESSURE SWITCH
		QUADPLEX RECEPTACLE (FLOOR MOUNTED)	F	FIRE ALARM FLOW SWITCH
		DUPLEX REC/DATA COMBINATION (FLOOR MOUNTED)	FSD	FIRE / SMOKE DAMPER
		QUADPLEX REC/DATA COMBINATION (FLOOR MOUNTED)	PIV	PRESSURE INDICATING VALVE
	•	MULTI-PHASE RECEPTACLE (AS NOTED ON PLAN)	R	SECURITY CARD READER
	 Ф	JUNCTION BOX (WALL MTD)	K	SECURITY KEY PAD
	0	JUNCTION BOX (CEILING)	AIU	ADDRESSABLE INTERFACE UNIT (MONITOR OR
	J	JUNCTION BOX (FLOOR MOUNTED)	W	CONTROL TYPE) CCTV CAMERA (WALL MOUNTED)
		PHONE OR DATA OUTLET (WALL MOUNTED @ 18"AFF)		CCTV CAMERA (CEILING MOUNTED)
7	\downarrow	PHONE OR DATA OUTLET (MTD ABOVE COUNTER)	SPD	SURGE PROTECTION DEVICE
		PHONE OR DATA OUTLET (FLOOR MOUNTED)	\$P	SPEAKER (WALL MOUNTED)
	₩	TELEVISION / CATV OUTLET (WALL MOUNTED @ 18" AFF)	SP	SPEAKER (CEILING MOUNTED)
	₩	TELEVISION / CATV OUTLET (CEILING MOUNTED)	(WF)	Wi-Fi ACCESS POINT (CEILING MOUNTED)
		PUSH BUTTON CONTROL		CABLE TRAY
	2	LIGHT SWITCH, SINGLE POLE		ELECTRICAL METERING DEVICE
	\$ 3	LIGHT SWITCH, 3 WAY TYPE	<u> </u>	ELECTRICAL UTILITY METER & C/T CABINET
╛	3 ⁴	LIGHT SWITCH, 4 WAY TYPE	_	PANELBOARD (SURFACE MOUNTED)
	S ^A	LIGHT SWITCH, AUTOMATIC (CONNECT TO LCS)	-	PANELBOARD (RECESS MOUNTED)
	S □	LIGHT SWITCH, DIMMER TYPE		CONTROL PANEL (SURFACE MOUNTED)
	S _T	LIGHT SWITCH, DIGITALLY TIMED (0-30 MINUTES)		CONTROL PANEL (RECESS MOUNTED)
	2 [~]	MOTOR RATED SNAP SWITCH IN NEMA 1 ENCLOSURE	#	DISCONNECT SWITCH, (REFER TO EQUIPMENT CONNECTION SCHEDULE)
	3 a	LOWER CASE SUBSCRIPT INDICATES SWITCH-LEG		DISCONNECT SWITCH, (NON PROTECTED)
	<i>\$</i> 2	MULTI-LEVEL SWITCHING CONFIGURATION	V	MOTOR CONNECTION (AS NOTED)
	PC	PHOTOCELL LIGHTING CONTROL	НН	HAND HOLE
	(OS)	OCCUPANCY SENSOR (CEILING MOUNTED)	GTD	GENERATOR TRANSFER DEVICE
	OS	OCCUPANCY SENSOR (WALL MOUNTED)		
	#	LIGHTING CONTROL CALLOUT (REFER TO SCHEDULE)		
	#" C.	CONDUIT CALLOUT (# INDICATES DIAMETER)		
		·		1

ABBREVIATIONS DESCRIPTION

KITCHEN EQUIPMENT CALLOUT (REFER TO SCHEDULE)

KEY NOTE CALLOUT (REFER TO KEY NOTES ON SHEET

- (E) EXISTING
- AFC ABOVE FINISHED CEILING AFF ABOVE FINISHED FLOOR
- AFG ABOVE FINISHED GRADE
- AHU AIR HANDLING UNIT
- BAS BUILDING AUTOMATION SYSTEM BFC BELOW FINISHED CEILING
- BFG BELOW FINISHED GRADE
- BOD BOTTOM OF DEVICE CBB COMMUNICATIONS BACK BOARD
- cd CANDELA CLG CEILING
- ECB ENCLOSED CIRCUIT BREAKER EF EXHAUST FAN
- FACP FIRE ALARM CONTROL PANEL
- FCU FAN COIL UNIT
- FDS FUSED DISCONNECT SWITCH FSD FIRE/SMOKE DAMPER
- GBB GROUND BUSS BAR GFCI GROUND-FAULT CIRCUIT-INTERRUPTING
- GFI GROUND—FAULT INTERRUPTING GP GENERAL PURPOSE
- HP HEAT PUMP ICP IRRIGATION CONTROL PANEL
- IG ISOLATED GROUND J-BOX JUNCTION BOX LCS LIGHTING CONTROL SYSTEM
- NEC NATIONAL ELECTRIC CODE NFDS NON-FUSED DISCONNECT SWITCH
- OC ON CENTER
- RFAP REMOTE FIRE ALARM ANNUNCIATOR PANEL RTU ROOF TOP UNIT
- SD SMOKE DETECTOR SPD SURGE PROTECTION DEVICE
- TGB TELEPHONE GROUNDING BUSS BAR
- UNO UNLESS OTHERWISE NOTED
- UTP UNSHIELDED TWISTED PAIR
- VFD VARIABLE FREQUENCY DRIVE
- W/ WITH WH WATER HEATER
- WP WEATHERPROOF XFMR TRANSFORMER

ELECTRICAL DRAWING INDEX

CONTRACTOR TO NEW LOCATION SHOWN ON RENOVATION PLAN.

DEMOLITION/RENOVATION NOTATION IF NO ANNOTATION IS SHOWN ASSUME EXISTING TO REMAIN IN

PLACE FOR SOLID LINES AND DEMOLISH FOR DASHED LINES.

DEVICES AND EQUIPMENT NOT SHOWN SHALL BE ASSUMED TO

EXISTING FIXTURE OR DEVICE TO REMAIN IN PLACE. REPLACE

R EXISTING FIXTURE OR DEVICE TO BE REMOVED BY THE

RE EXISTING DEVICE TO BE REMOVED BY THE ELECTRICAL

NEW DEVICE AS SHOWN ON RENOVATION PLANS.

RR EXISTING FIXTURE TO BE RELOCATED BY THE ELECTRICAL

ANY BROKEN DEVICES OR PLATES; COLOR TO MATCH EXISTING.

ELECTRICAL CONTRACTOR. MAINTAIN CONTINUITY OF REMAINING

CONTRACTOR. EXISTING CIRCUIT SHALL BE RETAINED. PROVIDE

SHEET NAME EO.1 ELECTRICAL NOTES & LEGENDS

BE EXISTING TO REMAIN IN PLACE.

PORTIONS OF BRANCH CIRCUIT.

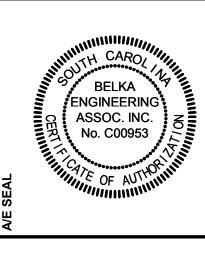
RN RELOCATED FIXTURE (NEW LOCATION).

- EO.2 ELECTRICAL PANEL SCHEDULES EO.3 ELECTRICAL PANEL SCHEDULES
- E1.0 OVERALL PLANS E1.1 ENTRY LEVEL ELECTRICAL PLANS
- E1.2 CLUB LEVEL ELECTRICAL PLANS E2.1 ELECTRICAL ELEVATIONS & DETAILS



GA216 ASSOCIATES, INC.

COLUMBIA, SOUTH CAROLINA 29210 (803) 731-0650 fax (803) 731-2880 Cliff Stringfield EMAIL: CEStringfield@bellsouth.net





	SUPPLIED FROM:					WIRES:	4			MAINS RATING: 100 A MCB RATING: MAIN LUGS ONLY						
	MOUNTING: SURFACE				ENCL	OSURE:	Type 1	1								
WIRE SIZE	CKT DESCRIPTION	BKR	Р		A		В	(C	Р	BKR	DESCRIPTION	CKT	WIRE SIZI		
	1 EXISTING LOAD			0.0	0.0							EXISTING LOAD	2			
#12, 1-#12, 1-#12	3 LIGHTING - LOUNGE/KITCHEN	20	1			1.4	0.0					EXISTING LOAD	4			
	5 EXISTING LOAD							0.0	0.0			EXISTING LOAD	6			
	7 EXISTING LOAD			0.0	0.0							EXISTING LOAD	8			
	9 EXISTING LOAD					0.0	0.0					EXISTING LOAD	10			
	11 EXISTING LOAD							0.0	0.0			EXISTING LOAD	12			
	13 EXISTING LOAD			0.0	0.0							EXISTING LOAD	14			
	15 EXISTING LOAD					0.0	0.0					EXISTING LOAD	16			
	17 EXISTING LOAD							0.0	0.0			EXISTING LOAD	18			
	19 EXISTING LOAD			0.0	0.0							EXISTING LOAD	20			
	21 EXISTING LOAD					0.0	0.0					EXISTING LOAD	22			
	23 EXISTING LOAD							0.0	0.0			EXISTING LOAD	24			
	25 EXISTING LOAD			0.0	0.0							EXISTING LOAD	26			
	27 EXISTING LOAD					0.0	0.0					EXISTING LOAD	28			
	29 EXISTING LOAD							0.0	0.0			EXISTING LOAD	30			
	31 EXISTING LOAD			0.0	0.0							EXISTING LOAD	32			
	33 EXISTING LOAD					0.0	0.0					EXISTING LOAD	34			
	35 EXISTING LOAD							0.0	0.0			EXISTING LOAD	36			
	37 EXISTING LOAD			0.0	0.0							EXISTING LOAD	38			
	39 EXISTING LOAD					0.0	0.0					EXISTING LOAD	40			
	41 EXISTING LOAD							0.0	0.0			EXISTING LOAD	42			
	KVA:	О	.0	1.4		0.0				ADD. CONNECTED KV	A:	1.4				
	TOTAL PER PH	HASE AMPA	CITY:		0		5	()			ADD. CONNECTED AMPS	S:	2		

	ŁΧ	STING PANELBOARD: 2L3-F					BUTION: HASES:	*	U8 Wye)	A.I.C. RATING: EXISTING MAINS RATING: 100 A							
		SUPPLIED FROM:					WIRES:						MCB RATING: MAIN LUGS ON	I V				
													MCB RATING. MAIN LOGS ON	_1				
WIRE SIZE	СКТ	MOUNTING: SURFACE DESCRIPTION	BKR P			A ENCL	DSURE: Type 1 B		С		Р	BKR	DESCRIPTION	СКТ	WIRE SIZE			
		EXISTING LOAD			0.0	0.0	L	,			<u>'</u> 		EXISTING LOAD	2				
		EXISTING LOAD			0.0	0.0	0.0	0.0					EXISTING LOAD	4				
		EXISTING LOAD					0.0	0.0	0.0	0.0			EXISTING LOAD	6				
		EXISTING LOAD			0.0	0.9			0.0	0.0	1		RECEPTACLES — LOUNGE	8	1-#12, 1-#12, 1-			
		EXISTING LOAD			0.0	0.3	0.0	0.7			1		RECEPTACLES - LOUNGE TVS	10	1-#12, 1-#12, 1-			
		EXISTING LOAD					0.0	0.7	0.0	0.4	1		RECEPTACLES - LOUNGE	12	1-#12, 1-#12, 1-			
		EXISTING LOAD			0.0	0.0			0.0	0.1	<u> </u>		EXISTING LOAD	14				
		EXISTING LOAD			0.0		0.0	0.0					EXISTING LOAD	16				
		EXISTING LOAD							0.0	0.4	1		RECEPTACLES — LOUNGE	18	1-#12, 1-#12, 1-			
	19	EXISTING LOAD			0.0	0.0							EXISTING LOAD	20				
	21	EXISTING LOAD					0.0	0.0					EXISTING LOAD	22				
-#12, 1-#12, 1-#12	23	* BEVERAGE DISPENSER	20	1					0.2	0.0			EXISTING LOAD	24				
-#12, 1-#12, 1-#12	25	* POP FOUNTAIN	20	1	0.2	0.0							EXISTING LOAD	26				
-#12, 1-#12, 1-#12	27	RECEPTACLES - KITCHEN	20	1			0.4	0.0					EXISTING LOAD	28				
-#12, 1-#12, 1-#12	29	RECEPTACLES - KITCHEN	20	1					0.4	0.0			EXISTING LOAD	30				
-#12, 1-#12, 1-#12	31	RECEPTACLES — KITCHEN	20	1	0.4	0.0							EXISTING LOAD	32				
-#12, 1-#12, 1-#12	33	MOTORIZED SHADES - LOUNGE	20	1			0.2	0.0					EXISTING LOAD	34				
	35	EXISTING LOAD							0.0	0.0			EXISTING LOAD	36				
	37	EXISTING LOAD			0.0	0.0							EXISTING LOAD	38				
	39	EXISTING LOAD					0.0	0.0					EXISTING LOAD	40				
	41	EXISTING LOAD							0.0	0.0			EXISTING LOAD	42				
		TOTAL PE	R PHASE	KVA:	1	.4	1.	.3	1.	.3			ADD. CONNECTED	KVA:	4.0			
		TOTAL PER PH	ASE AMPA	CITY:	1	2	1	1	1	1			ADD. CONNECTED A	MPS:	11			

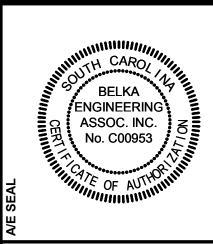
			STING PANELBOARD: 2EH1-F SUPPLIED FROM:			PHASES: 3 WIRES: 4								MAINS RATING: 100 A MCB RATING: MAIN LUGS ONLY						
1 EXISTING LOAD 0.0 0.0 0.0 EXISTING LOAD 2 3 EXISTING LOAD 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.						ENCLOSURE: Type 1														
3 FXISTING LOAD 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	WIRE SIZE	СКТ	DESCRIPTION	BKR	Р	,	Δ	E	3	(2	P	BKR	DESCRIPTION	CKT	WIRE SIZE				
5 EXISTING LOAD 0.0 0.0 0.0 EXISTING LOAD 6 7 EXISTING LOAD 0.0 0.0 0.0 EXISTING LOAD 8 9 EXISTING LOAD 0.0 0.0 0.0 EXISTING LOAD 10 13 EXISTING LOAD 0.0 0.0 0.0 EXISTING LOAD 12 13 EXISTING LOAD 0.0 0.0 0.0 EXISTING LOAD 16 15 EXISTING LOAD 0.0 0.0 0.0 EXISTING LOAD 16 17 EXISTING LOAD 0.0 0.0 0.0 EXISTING LOAD 18 19 EXISTING LOAD 0.0 0.0 0.0 EXISTING LOAD 18 21 EXISTING LOAD 0.0 0.0 0.0 EXISTING LOAD 18 22 EXISTING LOAD 0.0 0.0 0.0 EXISTING LOAD 22 23 EXISTING LOAD 0.0 0.0 0.0 EXISTING LOAD 24 25 EXISTING LOAD 0.0 0.0 0.0 EXISTING LOAD 26 27 EXISTING LOAD 0.0 0.0 0.0 EXISTING LOAD 28 28 EXISTING LOAD 0.0 0.0 0.0 EXISTING LOAD 28 29 EXISTING LOAD 0.0 0.0 0.0 EXISTING LOAD 32 33 EXISTING LOAD 0.0 0.0 0.0 EXISTING LOAD 32 33 EXISTING LOAD 0.0 0.0 0.0 EXISTING LOAD 32 33 EXISTING LOAD 0.0 0.0 0.0 EXISTING LOAD 34 35 EXISTING LOAD 0.0 0.0 0.0 EXISTING LOAD 34 35 EXISTING LOAD 0.0 0.0 0.0 EXISTING LOAD 34 35 EXISTING LOAD 0.0 0.0 0.0 EXISTING LOAD 34 35 EXISTING LOAD 0.0 0.0 0.0 EXISTING LOAD 35 35 EXISTING LOAD 0.0 0.0 0.0 EXISTING LOAD 35 37 EXISTING LOAD 0.0 0.0 0.0 EXISTING LOAD 36		1	EXISTING LOAD			0.0	0.0							EXISTING LOAD	2					
7 EXISTING LOAD 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0		3	EXISTING LOAD					0.0	0.0					EXISTING LOAD	4					
9 EXISTING LOAD 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0		5	EXISTING LOAD							0.0	0.0			EXISTING LOAD	6					
#12. 1-#1		7	EXISTING LOAD			0.0	0.0							EXISTING LOAD	8					
13 EXISTING LOAD		9	EXISTING LOAD					0.0	0.0					EXISTING LOAD	10					
15 EXISTING LOAD 0.0 0.0 0.0 0.0 EXISTING LOAD 16 17 EXISTING LOAD 0.0 0.0 0.0 EXISTING LOAD 18 19 EXISTING LOAD 0.0 0.0 0.0 EXISTING LOAD 20 21 EXISTING LOAD 0.0 0.0 0.0 EXISTING LOAD 22 23 EXISTING LOAD 0.0 0.0 0.0 EXISTING LOAD 24 25 EXISTING LOAD 0.0 0.0 0.0 EXISTING LOAD 26 27 EXISTING LOAD 0.0 0.0 0.0 EXISTING LOAD 28 29 EXISTING LOAD 0.0 0.0 0.0 EXISTING LOAD 30 31 EXISTING LOAD 0.0 0.0 0.0 EXISTING LOAD 32 33 EXISTING LOAD 0.0 0.0 0.0 EXISTING LOAD 34 35 EXISTING LOAD 0.0 0.0 0.0 EXISTING LOAD 36 37 EXISTING LOAD 0.0 0.0 0.0 EXISTING LOAD 36	#12, 1-#12, 1-#12	11	LIGHTING - LOUNGE/KITCHEN	20	1					0.1	0.0			EXISTING LOAD	12					
17 EXISTING LOAD 0.0 0.0 0.0 EXISTING LOAD 18 19 EXISTING LOAD 0.0 0.0 0.0 EXISTING LOAD 20 21 EXISTING LOAD 0.0 0.0 0.0 EXISTING LOAD 22 23 EXISTING LOAD 0.0 0.0 0.0 EXISTING LOAD 24 25 EXISTING LOAD 0.0 0.0 0.0 EXISTING LOAD 26 27 EXISTING LOAD 0.0 0.0 0.0 EXISTING LOAD 28 29 EXISTING LOAD 0.0 0.0 0.0 EXISTING LOAD 30 31 EXISTING LOAD 0.0 0.0 0.0 EXISTING LOAD 32 35 EXISTING LOAD 0.0 0.0 0.0 EXISTING LOAD 34 35 EXISTING LOAD 0.0 0.0 0.0 EXISTING LOAD 36 37 EXISTING LOAD 0.0 0.0 0.0 EXISTING LOAD 36		13	EXISTING LOAD			0.0	0.0							EXISTING LOAD	14					
19 EXISTING LOAD 0.0 0.0 0.0 EXISTING LOAD 20 21 EXISTING LOAD 0.0 0.0 0.0 EXISTING LOAD 22 23 EXISTING LOAD 0.0 0.0 0.0 EXISTING LOAD 24 25 EXISTING LOAD 0.0 0.0 0.0 EXISTING LOAD 26 27 EXISTING LOAD 0.0 0.0 0.0 EXISTING LOAD 28 29 EXISTING LOAD 0.0 0.0 0.0 EXISTING LOAD 30 31 EXISTING LOAD 0.0 0.0 0.0 EXISTING LOAD 32 33 EXISTING LOAD 0.0 0.0 0.0 EXISTING LOAD 34 35 EXISTING LOAD 0.0 0.0 0.0 EXISTING LOAD 36 37 EXISTING LOAD 0.0 0.0 0.0 EXISTING LOAD 38		15	EXISTING LOAD					0.0	0.0					EXISTING LOAD	16					
21 EXISTING LOAD 0.0 0.0 0.0 EXISTING LOAD 22 23 EXISTING LOAD 0.0 0.0 0.0 EXISTING LOAD 24 25 EXISTING LOAD 0.0 0.0 0.0 EXISTING LOAD 26 27 EXISTING LOAD 0.0 0.0 0.0 EXISTING LOAD 28 29 EXISTING LOAD 0.0 0.0 0.0 EXISTING LOAD 30 31 EXISTING LOAD 0.0 0.0 0.0 EXISTING LOAD 32 33 EXISTING LOAD 0.0 0.0 0.0 EXISTING LOAD 34 35 EXISTING LOAD 0.0 0.0 0.0 EXISTING LOAD 36 37 EXISTING LOAD 0.0 0.0 0.0 EXISTING LOAD 36		17	EXISTING LOAD							0.0	0.0			EXISTING LOAD	18					
23 EXISTING LOAD 0.0 0.0 0.0 EXISTING LOAD 24 25 EXISTING LOAD 0.0 0.0 0.0 EXISTING LOAD 26 27 EXISTING LOAD 0.0 0.0 0.0 EXISTING LOAD 28 29 EXISTING LOAD 0.0 0.0 0.0 EXISTING LOAD 30 31 EXISTING LOAD 0.0 0.0 0.0 EXISTING LOAD 32 33 EXISTING LOAD 0.0 0.0 0.0 EXISTING LOAD 34 35 EXISTING LOAD 0.0 0.0 0.0 EXISTING LOAD 36 37 EXISTING LOAD 0.0 0.0 0.0 EXISTING LOAD 38		19	EXISTING LOAD			0.0	0.0							EXISTING LOAD	20					
25 EXISTING LOAD 0.0 0.0 EXISTING LOAD 26 27 EXISTING LOAD 0.0 0.0 EXISTING LOAD 28 29 EXISTING LOAD 0.0 0.0 EXISTING LOAD 30 31 EXISTING LOAD 0.0 0.0 EXISTING LOAD 34 35 EXISTING LOAD 0.0 0.0 EXISTING LOAD 36 37 EXISTING LOAD 0.0 0.0 EXISTING LOAD 38		21	EXISTING LOAD					0.0	0.0					EXISTING LOAD	22					
27 EXISTING LOAD 0.0 0.0 0.0 EXISTING LOAD 28 29 EXISTING LOAD 0.0 0.0 0.0 EXISTING LOAD 30 31 EXISTING LOAD 0.0 0.0 0.0 EXISTING LOAD 32 33 EXISTING LOAD 0.0 0.0 0.0 EXISTING LOAD 34 35 EXISTING LOAD 0.0 0.0 0.0 EXISTING LOAD 36 37 EXISTING LOAD 0.0 0.0 0.0 EXISTING LOAD 38		23	EXISTING LOAD							0.0	0.0			EXISTING LOAD	24					
29 EXISTING LOAD 0.0 0.0 0.0 EXISTING LOAD 30 31 EXISTING LOAD 0.0 0.0 0.0 EXISTING LOAD 32 33 EXISTING LOAD 0.0 0.0 0.0 EXISTING LOAD 34 35 EXISTING LOAD 0.0 0.0 0.0 EXISTING LOAD 36 37 EXISTING LOAD 0.0 0.0 0.0 EXISTING LOAD 38		25	EXISTING LOAD			0.0	0.0							EXISTING LOAD	26					
31 EXISTING LOAD		27	EXISTING LOAD					0.0	0.0			I I		EXISTING LOAD	28					
33 EXISTING LOAD		29	EXISTING LOAD							0.0	0.0			EXISTING LOAD	30					
35 EXISTING LOAD		31	EXISTING LOAD			0.0	0.0							EXISTING LOAD	32					
37 EXISTING LOAD		33	EXISTING LOAD					0.0	0.0					EXISTING LOAD	34					
		35	EXISTING LOAD							0.0	0.0			EXISTING LOAD	36					
39 EXISTING LOAD		37	EXISTING LOAD			0.0	0.0							EXISTING LOAD	38					
		39	EXISTING LOAD					0.0	0.0					EXISTING LOAD	40					
41 EXISTING LOAD		41	EXISTING LOAD							0.0	0.0			EXISTING LOAD	42					

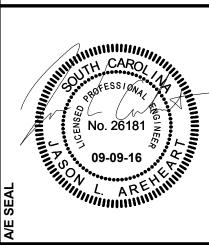
* GFCI TYPE BREAKER

GENERAL PANEL SCHEDULE NOTES

- 1 FIELD VERIFY EXISTING LOAD SERVED BY EACH BRANCH AND CLEARLY LABEL IN PANELBOARD SCHEDULES.
- 2 CIRCUITS INDICATED TO FEED NEW LIGHTING AND ELECTRICAL DEVICES ARE DIAGRAMMATIC IN NATURE. CONTRACTOR SHALL BE RESPONSIBLE FOR MOVING EXISTING BREAKERS WHERE ADDITIONAL SPACE IS NEEDED BUT AVAILABLE.
- 3 EXISTING BREAKERS SHOWN IN PANEL SCHEDULES ARE FOR REFERENCE ONLY.
- 4 ALL BRANCH CIRCUITS SHALL BE IN 3/4" CONDUIT UNLESS NOTED OTHERWISE.





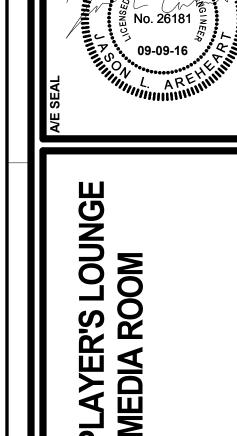


7 CLUSTERS COURT, SUITE 201 COLUMBIA, SOUTH CAROLINA 29210 (803) 731-0650 fax (803) 731-2880 Cliff Stringfield EMAIL: CEStringfield@bellsouth.net

	EXISTING PANELBOARD: $3L1-F$					BUTION: HASES:	,	08 Wye	:				RATING: EXISTING		
	SUPPLIED FROM:					WIRES:	4					MCB F	RATING: 100 A		
	MOUNTING: SURFACE				ENCL	OSURE:	Туре	I							
WIRE SIZE	CKT DESCRIPTION	BKR	Р	,	Ą		В	(2	Р	BKR	DES	CRIPTION	СКТ	WIRE SI
	1 EXISTING LOAD			0.0	0.0							EXISTING LOAD		2	
	3 EXISTING LOAD					0.0	0.0					EXISTING LOAD		4	
	5 EXISTING LOAD							0.0	0.0			EXISTING LOAD		6	
	7 EXISTING LOAD			0.0	0.0							EXISTING LOAD		8	
	9 EXISTING LOAD					0.0	0.0					EXISTING LOAD		10	
	11 EXISTING LOAD							0.0	0.0			EXISTING LOAD		12	
	13 EXISTING LOAD			0.0	0.0							EXISTING LOAD		14	
	15 EXISTING LOAD					0.0	0.0					EXISTING LOAD		16	
	17 EXISTING LOAD							0.0	0.0			EXISTING LOAD		18	
	19 EXISTING LOAD			0.0	0.0							EXISTING LOAD		20	
	21 EXISTING LOAD					0.0	0.0					EXISTING LOAD		22	
	23 EXISTING LOAD							0.0	0.0			EXISTING LOAD		24	
	25 EXISTING LOAD			0.0	0.0							EXISTING LOAD		26	
	27 EXISTING LOAD					0.0	0.0					EXISTING LOAD		28	
	29 EXISTING LOAD							0.0	0.0			EXISTING LOAD		30	
£12, 1-#12, 1-#12	31 LIGHTING - MEDIA ROOM	20	1	0.3	0.0							EXISTING LOAD		32	
12, 1-#12, 1-#12	33 RECEPTACLES - MEDIA ROOM	20	1			0.7	0.0					EXISTING LOAD		34	
#12, 1-#12, 1-#12	35 LIGHTING - MEDIA ROOM	20	1					0.4	0.0			EXISTING LOAD		36	
£12, 1-#12, 1-#12	37 RECEPTACLES - MEDIA ROOM	20	1	0.4	0.0							EXISTING LOAD		38	
£12, 1-#12, 1-#12	39 RECEPTACLES - MEDIA ROOM	20	1			0.4	0.0					EXISTING LOAD		40	
12, 1-#12, 1-#12	41 RECEPTACLES — MEDIA ROOM	20	1					0.4	0.0			EXISTING LOAD		42	
	ТОТ	AL PER PHASE	KVA:	0	.6	1	.1	0	.7				ADD. CONNECTED KVA:		2.4
	TOTAL PE	ER PHASE AMPA	CITY:	ļ	5		9		<u> </u>				ADD. CONNECTED AMPS:		7

A.I.C. RATING: EXISTING				08 Wye	120/2	UTION:	DISTRIB			STING PANELBOARD: $3L2-F$	EXI	
MAINS RATING: 100 A					3	HASES:	PI			3LZ-F		
MCB RATING: 100 A					4	WIRES:				SUPPLIED FROM:		
					Type 1	SURE:	ENCL			MOUNTING: SURFACE		
DESCRIPTION	BKR	Р		(3	E	4	-	Р	DESCRIPTION BKR	СКТ	WIRE SIZE
EXISTING LOAD							0.0	0.0		EXISTING LOAD	1	
EXISTING LOAD					0.0	0.0				EXISTING LOAD	3	
EXISTING LOAD			0.0	0.0						EXISTING LOAD	5	
EXISTING LOAD							0.0	0.0		EXISTING LOAD	7	
EXISTING LOAD					0.0	0.0				EXISTING LOAD	9	
EXISTING LOAD			0.0	0.0						EXISTING LOAD	11	
EQUIPMENT RACK - MEDIA ROOM	20	1					0.4	0.0		EXISTING LOAD	13	
RECEPTACLES - MEDIA ROOM	20	1			0.4	0.4			1	RECEPTACLES - MEDIA ROOM 20	15	I-#12, 1-#12, 1-#12
MOTORIZED SCREEN - MEDIA ROOM	20	1	1.6	0.4					1	RECEPTACLES - MEDIA ROOM 20	17	-#12, 1-#12, 1-#12
MOTORIZED SCREEN - MEDIA ROOM	20	1					1.6	0.2	1	PROJECTOR — MEDIA ROOM 20	19	-#12, 1-#12, 1-#12
ACCESS CONTROL	20	1			0.4	0.4			1	MOTORIZED SHADES - MEDIA ROOM 20	21	-#12, 1-#12, 1-#12
PREPARED SPACE			0.0	0.0						PREPARED SPACE	23	
PREPARED SPACE							0.0	0.0		PREPARED SPACE	25	
PREPARED SPACE					0.0	0.0				PREPARED SPACE	27	
PREPARED SPACE			0.0	0.0						PREPARED SPACE	29	
PREPARED SPACE							0.0	0.0		PREPARED SPACE	31	
PREPARED SPACE					0.0	0.0				PREPARED SPACE	33	
PREPARED SPACE			0.0	0.0						PREPARED SPACE	35	
PREPARED SPACE							0.0	0.0		PREPARED SPACE	37	
PREPARED SPACE					0.0	0.0				PREPARED SPACE	39	
PREPARED SPACE			0.0	0.0						PREPARED SPACE	41	
ADD. CONNE			.0	2.	.5	1.	.1	2	KVA:	TOTAL PER PHASE		
ADD. CONNEC			7	1	3	1	8	1	CITY:	TOTAL PER PHASE AMPA		

		NELBOARD: 3EH1—F IED FROM:					HASES: WIRES:						MAINS RATING: 100 A MCB RATING: 100 A								
		MOUNTING: SURFACE		ENCLOSURE: Type 1																	
WIRE SIZE	СКТ	DESCRIPTION	BKR	Р		A		В		2	Р	BKR	DESCRIPTION	СКТ	WIRE SIZE						
	1 EXISTING	LOAD			0.0	0.0							EXISTING LOAD	2							
	3 EXISTING	LOAD					0.0	0.0					EXISTING LOAD	4							
	5 EXISTING	LOAD							0.0	0.0			EXISTING LOAD	6							
12, 1-#12, 1-#12	7 LIGHTING	- MEDIA ROOM	20	1	0.2	0.0							EXISTING LOAD	8							
	9 EXISTING	LOAD					0.0	0.0					EXISTING LOAD	10							
	11 EXISTING	LOAD							0.0	0.0			EXISTING LOAD	12							
	13 EXISTING	LOAD			0.0	0.0							EXISTING LOAD	14							
	15 EXISTING	LOAD					0.0	0.0					EXISTING LOAD	16							
	17 EXISTING	LOAD							0.0	0.0			EXISTING LOAD	18							
	19 EXISTING	LOAD			0.0	0.0							EXISTING LOAD	20							
	21 EXISTING	LOAD					0.0	0.0					EXISTING LOAD	22							
	23 EXISTING	LOAD							0.0	0.0			EXISTING LOAD	24							
	25 EXISTING	LOAD			0.0	0.0							EXISTING LOAD	26							
	27 EXISTING	LOAD					0.0	0.0					EXISTING LOAD	28							
	29 EXISTING	LOAD							0.0	0.0			EXISTING LOAD	30							
	31 EXISTING	LOAD			0.0	0.0							EXISTING LOAD	32							
	33 EXISTING	LOAD					0.0	0.0					EXISTING LOAD	34							
	35 EXISTING	LOAD							0.0	0.0			EXISTING LOAD	36							
	37 EXISTING	LOAD			0.0	0.0							EXISTING LOAD	38							
	39 EXISTING	LOAD					0.0	0.0					EXISTING LOAD	40							
	41 EXISTING	LOAD							0.0	0.0			EXISTING LOAD	42							
		TOTAL	TOTAL PER PHASE KV				C	0.0	0	.0			ADD. CONN	ECTED KVA:	0.2						
TOTAL PER PHASE AMPACITY:			PHASE AMPA	CITY:		1		0)			ADD. CONNEC	CTED AMPS:	0						



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CKT WIRE SIZE

14 1-#12, 1-#12, 1-#12

16 1-#12, 1-#12, 1-#12

18 1-#12, 1-#12, 1-#12

20 1-#12, 1-#12, 1-#12 22 1-#12, 1-#12, 1-#12

5.6

ADD. CONNECTED KVA:

ADD. CONNECTED AMPS:

GFCI TYPE BREAKER

EMAIL: CEStringfield@bellsouth.net

GFCI TYPE BREAKER

