

ABBREVIATIONS

| | | | |
|--------|--------------------------------------|--------|------------------------|
| AFF | ABOVE FINISH FLOOR | MAX | MAXIMUM |
| ALUM | ALUMINUM | MECH | MECHANICAL |
| ARCH | ARCHITECTURAL | MFR | MANUFACTURER |
| BLKG | BLOCKING | MIN | MINIMUM |
| BU | BUILT-UP ROOF | MO | MASONRY OPENING |
| CL | CENTERLINE | NIC | NOT IN CONTRACT |
| CJ | CONTROL JOINT | NOM | NOMINAL |
| CLG | CEILING | NFS | NOT TO SCALE |
| CTR | CENTER | OC | ON CENTER |
| CONC | CONCRETE | OD | OUTSIDE DIAMETER |
| CNU | CONCRETE MASONRY UNIT | OH | OPPOSITE HAND |
| CONT | CONTINUOUS | ORD | OVERFLOW ROOF DRAIN |
| DIA | DIAMETER | OS | OVERFLOW SCUPPER |
| DS | DOWN SPOUT | P | PAINT |
| DWG | DRAWING | PL | PLATE, PROPERTY LINE |
| EXT | EXTERIOR | PR | PAIR |
| EXIST | EXISTING | PT | PRESSURE TREATED |
| EA | EACH | R, RAD | RADIUS |
| EJ | EXPANSION JOINT | REQU | REQUIRED |
| ELEC | ELECTRICAL | RD | ROOF DRAIN |
| EL | ELEVATION | RO | ROUGH OPENING |
| ELEV | ELEVATOR | SF | SQUARE FEET |
| EQUIP | EQUIPMENT | SIM | SIMILAR |
| EWIC | ELECTRIC WATER COOLER | SPEC | SPECIFICATIONS |
| FIN | FINISH | SS | STAINLESS STEEL |
| FD | FLOOR DRAIN | STD | STANDARD |
| FOF | FACE OF FINISH | STR | STRUCTURAL |
| FOS | FACE OF STUD | SUSP | SUSPENDED |
| FR | FIRE RETARDANT | TOS | TOP OF STEEL |
| FV | FIELD VERIFY | TOW | TOP OF WALL |
| GALV | GALVANIZED | TYP | TYPICAL |
| GYP BD | GYPSON BOARD | UNO | UNLESS NOTED OTHERWISE |
| HM | HOLLOW METAL | VERT | VERTICAL |
| HORIZ | HORIZONTAL | VCT | VINYL COMPOSITION TILE |
| HT | HEIGHT | W/ | WITH |
| HVAC | HEATING VENTILATION AIR-CONDITIONING | WC | WATER CLOSET |
| ID | INSIDE DIAMETER | WRF | WATER RESISTANT |
| INSUL | INSULATION | WWD | WELDED WIRE FABRIC |
| JT | JOINT | WD | WOOD |
| LAV | LAVATORY | WP | WORKING POINT |
| | | VTR | VENT THROUGH ROOF |

GENERAL NOTES

- These documents indicate materials and methods of interior construction to set the standard quality and/or performance. Other materials and/or methods shall be considered for acceptance by the Architect/Owner, provided they do not affect the visible appearance from that indicated whatsoever.
- The term "work" means the construction and services required by the contract documents and includes all labor, materials, equipment and services required to complete the work. All work shall be limited to that shown on the contract documents. No additional work shall be done without prior written approval of the Architect. Any additional work performed without the Architect's consent shall be done at the Contractor's sole expense.
- The Contractor shall take field measurements and verify field conditions and shall carefully compare such field measurements and conditions and other information known to the Contractor with the contract documents before commencing work. The Contractor shall notify the Architect at once of any errors, inconsistencies or omissions.
- "Typical" means the condition is the same for all similar conditions, unless noted otherwise.
- Unless otherwise provided in the contract documents, the Contractor shall secure and pay for all building permits and governmental fees, licenses and inspections necessary for proper execution and completion of the work.
- The Contractor shall comply with and give notices required by laws, ordinances, rules, regulations and lawful orders of public authorities bearing on the performance of the work.
- Materials, dimensions and other conditions not otherwise indicated in the drawings shall be interpreted as having the same meaning as the most similarly detailed detail if not more fully defined elsewhere on the drawings.
- All dimensions are considered critical and are to be as indicated on the drawings, unless discrepancies are discovered as per general note #3. Do not scale from the drawings to determine dimensions for construction.
- The Architect has not conducted any investigation as to the presence of any hazardous material including asbestos, within the extent of the work. The Architect will not accept responsibility for the identification and removal of any hazardous material or for any effect from its presence. If any such material is found in the project, the Contractor should notify the Owner's representative and the Architect immediately.
- The Contractor shall not use any materials containing asbestos or other hazardous material for the construction of the project.
- The Contractor shall include all overtime required to complete the job in accordance with the project schedule issued.
- Required inspection: Contractor shall notify the owner and all pertinent authorities in adequate time for inspections to be made without a delay in the work, and prior to completion of construction.
- Contractor shall attend and cause appropriate subcontractors to attend progress job meetings, time and place to be determined by the owner or architect.
- The Contractor shall provide a part-time superintendent for this project. The superintendent shall have held this position with the Contractor for at least one year prior to award of contract.
- The Contractor's superintendent shall be present at the site to supervise all work.

CLEANING

- Do not use materials which will create hazards to health or property, or which will damage surfaces.
- Provide covered containers for deposit of waste materials, debris, and rubbish.
- Execute periodic cleaning to keep building, site, and adjacent areas free of accumulations of waste materials, rubbish, and debris resulting from construction operations.
- Prior to Substantial Completion, remove construction tools, scaffolding, equipment, machinery, and surplus materials.
- Broom clean and vacuum interior areas prior to start of surface finishing, and continue cleaning to eliminate dust.
- Schedule cleaning operations so that dust and other contaminants will not fall on or adhere to wet or newly coated surfaces.
- Remove debris and rubbish from pipe chases, plenum, and other closed or remote spaces, prior to enclosing space.
- Store volatile wastes in covered metal containers and remove from premises daily. Prevent accumulation of waste which creates hazardous conditions. Provide adequate ventilation during use of volatile or noxious substances.
- Collect and remove waste materials, debris and rubbish from site periodically until execution of final cleaning and dispose off site in lawful manner. Do not burn or bury rubbish and waste materials on Project site. Do not dispose of volatile wastes or hazardous materials such as mineral spirits, oil, or paint thinner in storm or sanitary drains. Do not dispose of wastes into streams or waterways.
- Conduct cleaning and disposal operations to comply with local ordinances and anti-pollution laws.
- Clean exposed interior hard-surfaced finishes to dirt-free condition, free of stains, films, and similar foreign substances. Remove labels which are not required as permanent labels. Clean glossy materials to polished condition; remove foreign substances, polish reflective surfaces to clear shine.
- Clean carpet and similar soft surfaces, removing debris, soil, and excess nap. Clean resilient flooring and associated bases.
- Clean light fixtures and lamps; replace burned out lamps.
- Maintain cleaning until Project is accepted by Owner.
- Perform all cleaning of manufactured items and finishes in compliance with manufacturer's recommendations.
- During dusty activities provide plastic protection to contain dust and debris to limited area (rooms). Clean dust and debris within reasonable time frame.
- Schedule loud activities with owner prior to beginning.

CUTTING AND PATCHING

- Perform cutting by methods, which will prevent damage in other portions of the work and will provide proper surfaces to receive installation of repair and new work.
- Patch and repair existing floor slabs to provide a smooth surface ready for new flooring as specified. Minor concrete slab preparation for holes and ridges of less than 1/4" shall be corrected prior to flooring installation. Patch all holes in floor where conduit, piping, etc. are removed.
- Patch all existing walls where cabinets, fixtures, thermostats, junction boxes, piping or other items are removed smooth and flush with adjacent. Prepare walls as required to receive finishes as scheduled. Maintain integrity of fire rated walls.

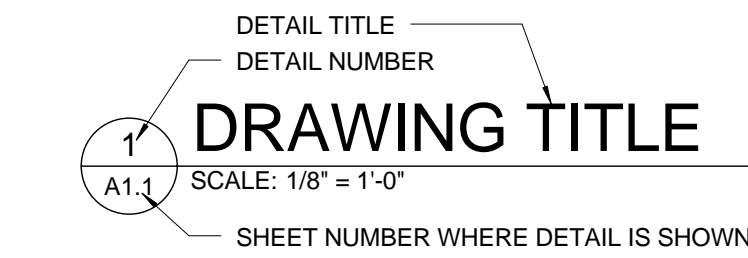
BUILDING ACCESS FOR CONSTRUCTION

- Contractor shall coordinate access times and dates with Owner.
- Contractors will only have access to the area they are working in. Contractor & sub-contractor shall keep out of areas beyond work.
- Wall and floor protection for the lobbies and corridors leading to the work areas must be installed to protect against damage.
- Smoking within the building is strictly prohibited.
- Radios boom boxes are prohibited.
- One dumpster may be provided by the contractor if required. The dumpster will be located according to owner's direction. The construction area is to be maintained in a neat and orderly fashion at all times. Trash is to be removed from the building at the end of each day. At the end of the project, all trash and excess material must be removed from the property, and the storage area must be broom clean.
- All materials used must be stored in a safe manner, with lids secured.
- All construction parking shall be coordinated with the Owner.
- Any damage to the base building or landscape material during the course of construction, whether related to vendors, deliveries, accidental damage or coordination of trades, shall be the responsibility of the contractor.
- The contractor is responsible for clean-up of the construction areas and all adjacent areas and pathways (including cleaning of carpet where needed).
- General contractor shall coordinate arrangements for delivery and receiving materials directly with the Owner. No materials shall be stored on any floor or in any finished public corridors on any floor.

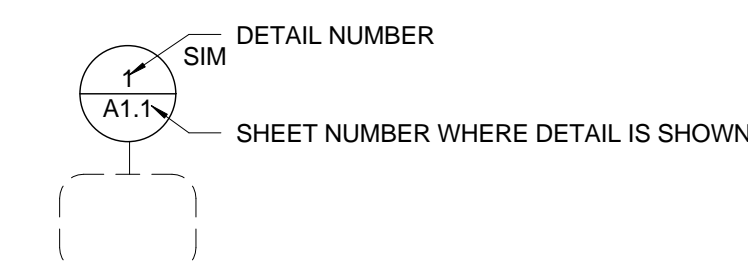
****Prior to project start date, please submit the names and emergency numbers (cell phone numbers) of your project managers and supervisors or anyone who will be on the jobsite on a regular basis that can be contacted by building management if necessary. END OF SECTION

SYMBOLS

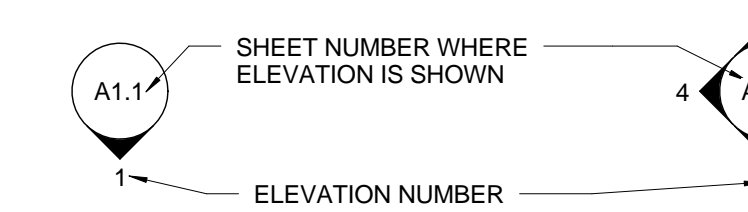
DRAWING REFERENCE



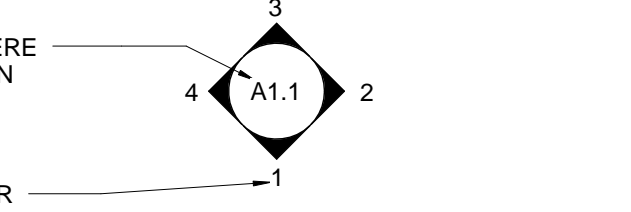
PLAN DETAIL REFERENCE



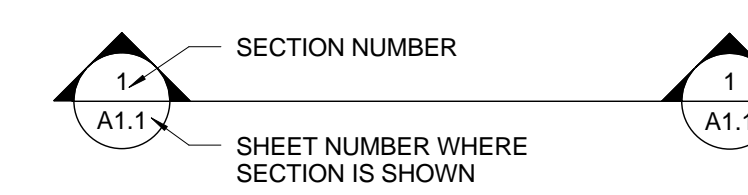
ELEVATION REFERENCE



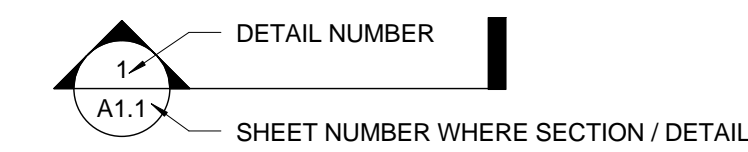
ALTERNATE ELEVATION REFERENCE



BUILDING SECTION REFERENCE

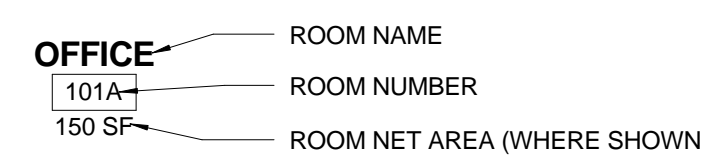


WALL SECTION / DETAIL SECTION REFERENCE

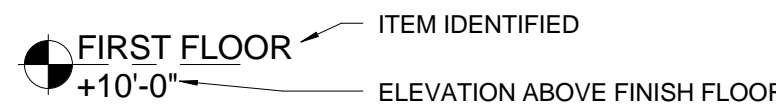
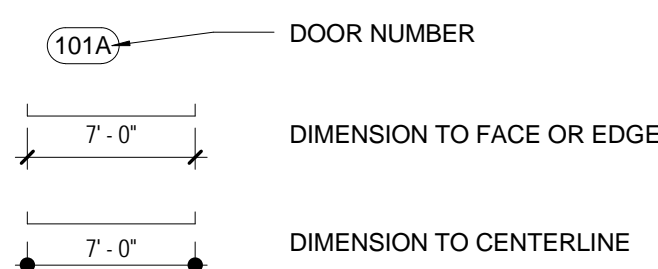


SIM SIMILAR CONDITION
OH OPPOSITE HAND
OPP OPPOSITE HAND
ROT ROTATED CONDITION

ROOM TAG SYMBOL



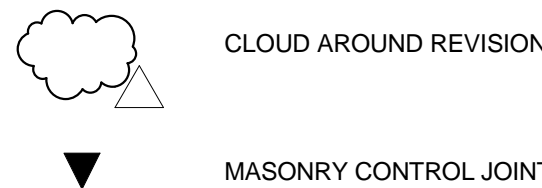
DOOR TAG SYMBOL



FD - FLOOR DRAIN

TA TOILET ACCESSORY SYMBOL

REVISION SYMBOL



MATERIALS LEGEND

| | | | |
|--|-------------------------------|--|--------------------------------------------|
| | CONCRETE | | WOOD (ROUGH) |
| | CONCRETE MASONRY UNIT (CMU) | | WOOD FINISHED |
| | BRICK | | PLYWOOD |
| | STEEL | | BATT INSULATION |
| | POROUS FILL (STONE OR GRAVEL) | | RIGID INSULATION |
| | COMPACTED EARTH | | SAND, PLASTER, CEMENT, GROUT, GYPSUM BOARD |



UNIVERSITY OF SOUTH CAROLINA

WILLIAMS BRICE STADIUM WOMEN'S RESTROOM CONSTRUCTION (SE)

ARCHITECT'S PROJECT NUMBER 12.130.06
STATE PROJECT NUMBER H27-Z054

MARCH 4, 2013 BID SET

DESIGN TEAM

ARCHITECT

QUACKENBUSH ARCHITECTS + PLANNERS
1217 HAMPTON STREET
COLUMBIA, SC 29201

T: 803-771-2999
F: 803-771-2858

STRUCTURAL ENGINEER

KYZER & TIMMERMAN
580 CHRIS DRIVE
WEST COLUMBIA, SC 29169

T: 803-791-4511
F: 803-791-4522

MECHANICAL & PLUMBING ENGINEER

SWYGERT & ASSOCIATES
1315 STATE STREET
COLUMBIA, SC 29211

T: 803-791-9300
F: 803-791-0830

ELECTRICAL ENGINEER

BELKA ENGINEERING ASSOCIATES, INC.
7 CLUSTERS COURT
COLUMBIA, SC 29210

T: 803-731-0650
F: 803-731-2880

INDEX OF DRAWINGS

| | |
|---------------------------------------------------|--------------------------------------------------|
| T1.1 | COVER SHEET, INDEX OF DRAWINGS |
| ARCHITECTURAL | |
| A1.1 | OVERALL PLAN, DEMOLITION & ROOF PLANS |
| A1.2 | FLOOR PLANS |
| A1.3 | REFLECTED CEILING PLAN AND BUILDING SECTIONS |
| A1.4 | DOOR AND ROOF AND DETAILS |
| STRUCTURAL | |
| S1.0 | RESTROOM ADDITION FLOOR FRAMING PLAN & NOTES |
| S2.0 | RESTROOM ADDITION ROOF FRAMING PLAN & NOTES |
| S3.0 | FLOOR FRAMING SECTIONS & DETAILS |
| S4.0 | FLOOR FRAMING SECTIONS & DETAILS |
| MECHANICAL | |
| M1.1 | FLOOR PLAN, DETAIL, NOTES, SCHEDULES, AND LEGEND |
| PLUMBING | |
| P1.1 | FLOOR PLAN - A - WASTE AND VENT PIPING |
| P1.2 | FLOOR PLAN - B - WASTE AND VENT PIPING |
| P2.1 | FLOOR PLAN - SUPPLY PIPING |
| P3.1 | DETAILS, NOTES, SCHEDULES, AND LEGEND |
| ELECTRICAL (INCLUDED FOR INFORMATION ONLY) | |
| E1.0 | EAST SIDE RESTROOM POWER & LIGHTING PLAN |

SCOPE OF WORK

BASE BID

SHALL INCLUDE ALL WORK SHOWN IN DOCUMENTS, UNO

ALTERNATES

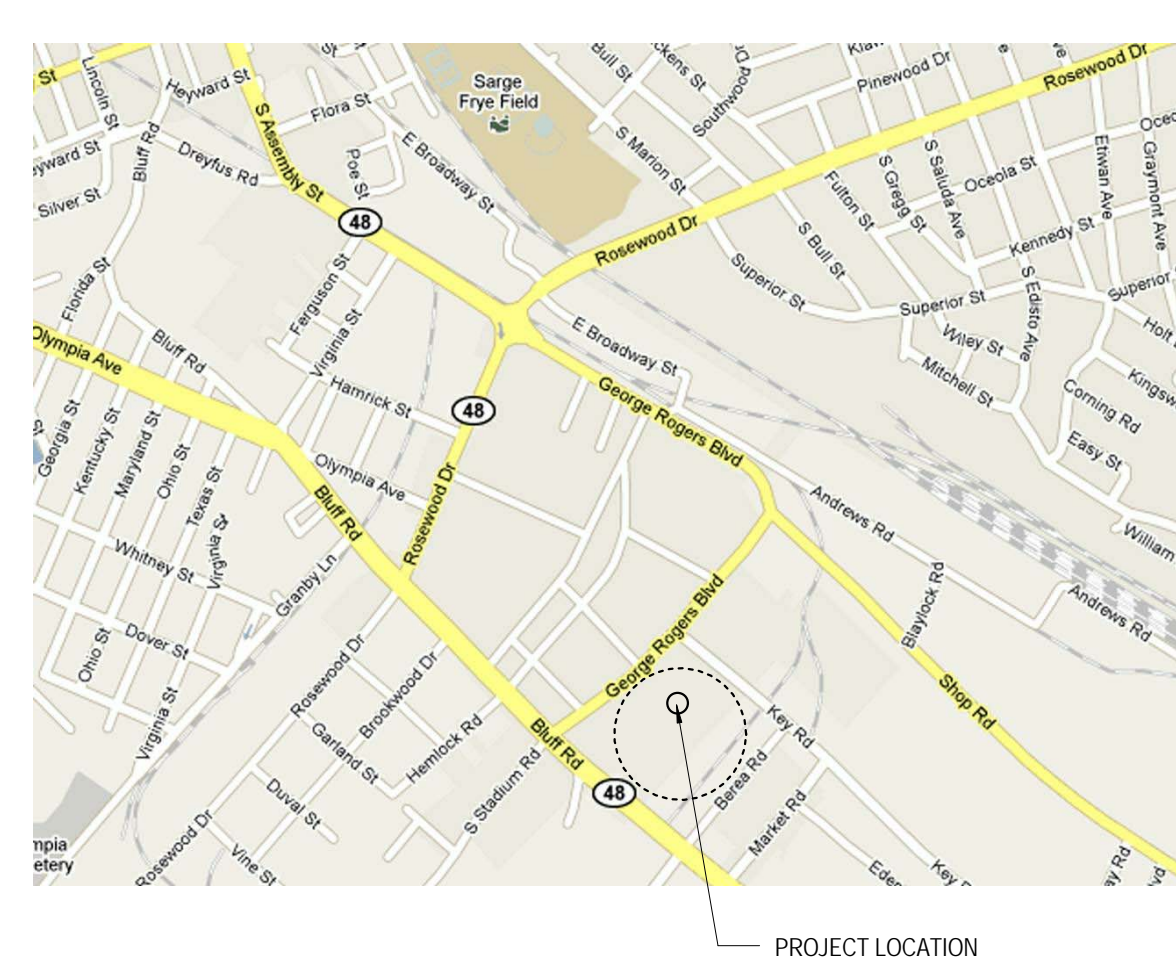
ALTERNATE #1
NEW CONCRETE SLAB AND ASSOCIATED STRUCTURE FOR ENTIRE ADJACENT BAY (BETWEEN COLUMNS LINES 4 & 5)

ALTERNATE #2
ALL TOILET PARTITIONS (WITH ENGRAVED GAMECOCK DOOR LOGO) FOR WOMEN'S RESTROOM

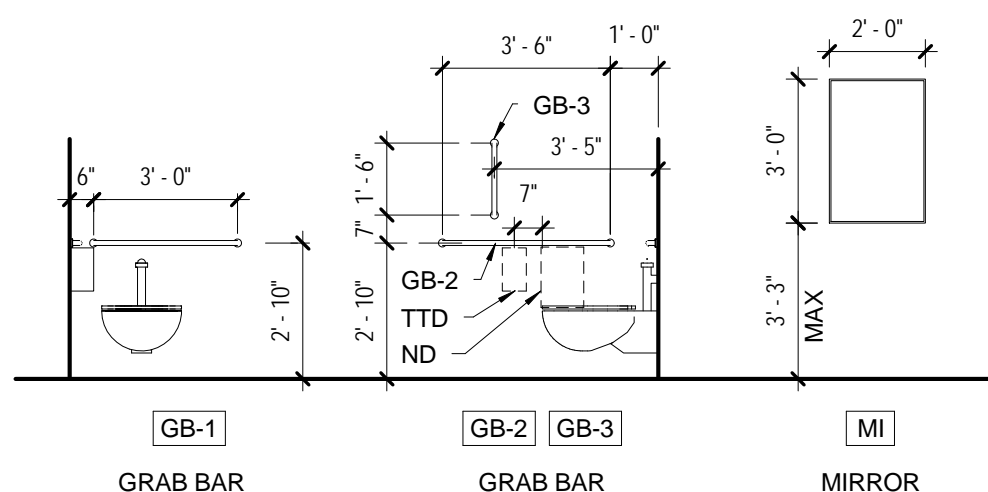
GENERAL NOTES

- UTILITY SHUT OFF SHALL BE COORDINATED WITH OWNER / USER. PROVIDE MINIMUM OF 72 HRS NOTICE.
- ACCESS TO LOCKED AREAS SHALL BE COORDINATED WITH OWNER.

LOCATOR MAP



MOUNTING HEIGHTS



TOILET ACCESSORY MOUNTING HEIGHTS

ACCESSORY GENERAL NOTES:

- ALL TOILET ROOM ACCESSORIES SHALL BE INSTALLED TO COMPLY W/ ADA AND ANSI A117.1-2003 HEIGHT AND ACCESS REQUIREMENTS.
- "FD" INDICATES FLOOR DRAIN.

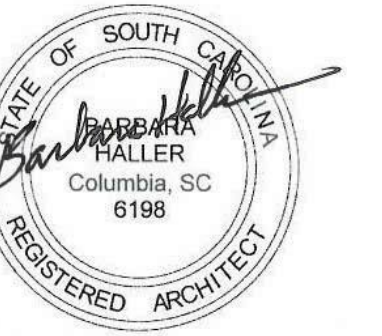


1217 Hampton Street T: 803.771.2999
Columbia, SC 29201 F: 803.771.2858

CORPORATE SEAL



A/E SEAL



PROJECT TITLE

UNIVERSITY OF SOUTH CAROLINA

WBS WOMEN'S RESTROOM CONST. (SE)

WILLIAMS BRICE STADIUM

BID SET

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REVISIONS

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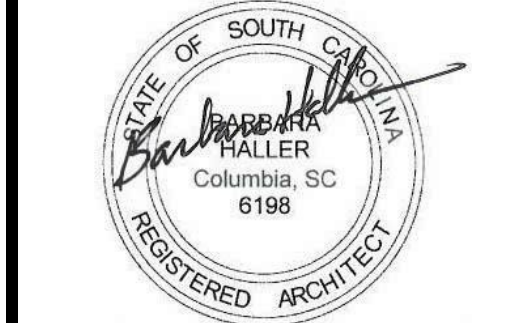
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| Date | 03.04.13 |
| Project No. | 12.130.06 |
| Scale | As indicated |
| Drawn By | HCW |
| Checked By | BLH |
| State Project No. | H27-Z054 |

TITLE

COVER SHEET, INDEX OF DRAWINGS

SHEET NO.

T1.1



UNIVERSITY OF SOUTH CAROLINA

WBS WOMEN'S RESTROOM CONST. (SE)

WILLIAMS BRICE STADIUM

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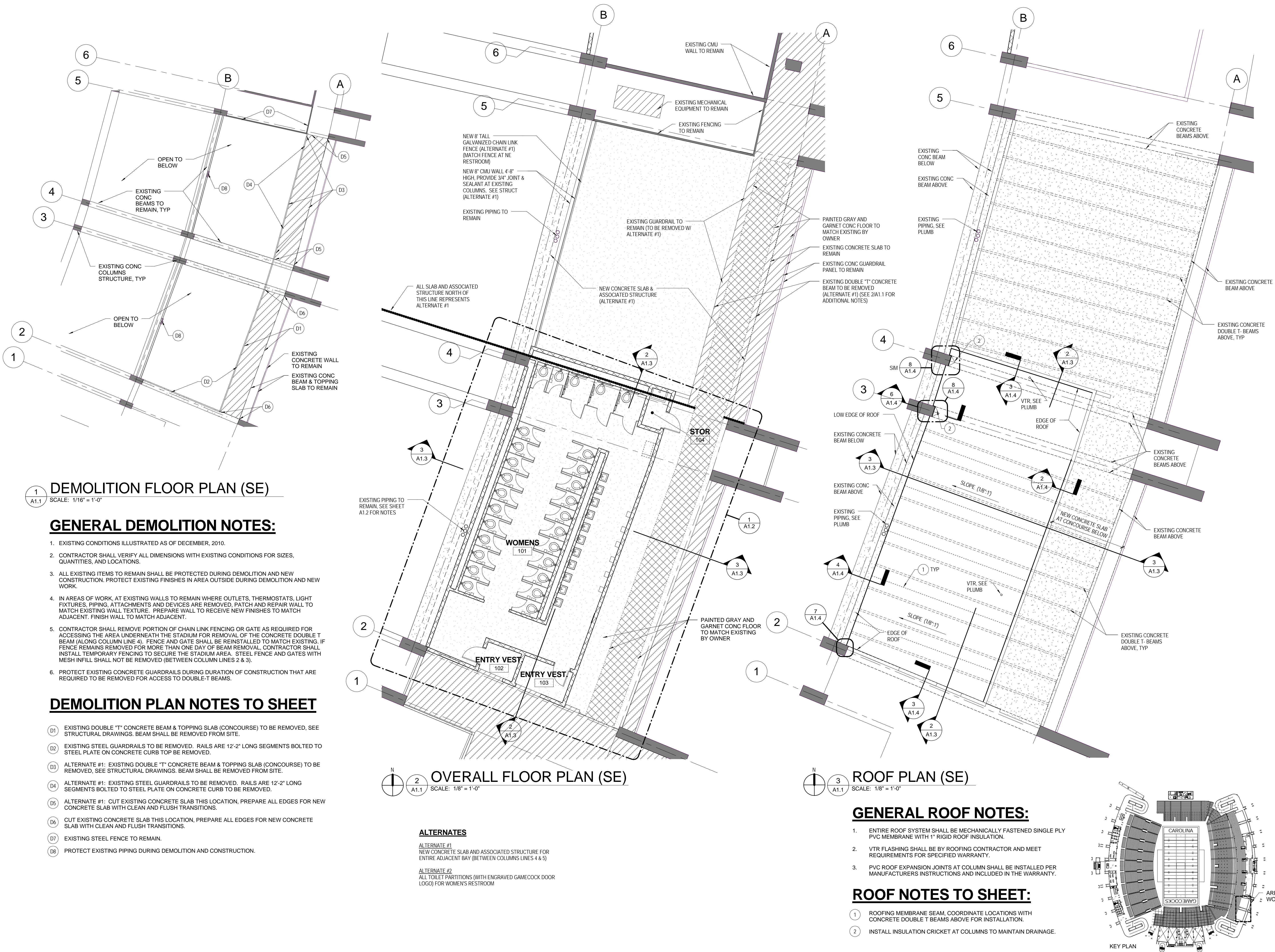
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| Checked By | Checker |
| State Project No. | H27-Z054 |

TITLE

OVERALL PLAN, DEMOLITION & ROOF PLANS

SHEET NO.

A1.1



1 DEMOLITION FLOOR PLAN (SE)
SCALE: 1/16" = 1'-0"

GENERAL DEMOLITION NOTES:

- EXISTING CONDITIONS ILLUSTRATED AS OF DECEMBER, 2010.
- CONTRACTOR SHALL VERIFY ALL DIMENSIONS WITH EXISTING CONDITIONS FOR SIZES, QUANTITIES, AND LOCATIONS.
- ALL EXISTING ITEMS TO REMAIN SHALL BE PROTECTED DURING DEMOLITION AND NEW CONSTRUCTION. PROTECT EXISTING FINISHES IN AREA OUTSIDE DURING DEMOLITION AND NEW WORK.
- IN AREAS OF WORK, AT EXISTING WALLS TO REMAIN WHERE OUTLETS, THERMOSTATS, LIGHT FIXTURES, PIPING, ATTACHMENTS AND DEVICES ARE REMOVED, PATCH AND REPAIR WALL TO MATCH EXISTING WALL TEXTURE. PREPARE WALL TO RECEIVE NEW FINISHES TO MATCH ADJACENT. FINISH WALL TO MATCH ADJACENT.
- CONTRACTOR SHALL REMOVE PORTION OF CHAIN LINK FENCING OR GATE AS REQUIRED FOR ACCESSING THE AREA UNDERNEATH THE STADIUM FOR REMOVAL OF THE CONCRETE DOUBLE T BEAM (ALONG COLUMN LINE 4). FENCE AND GATE SHALL BE REINSTALLED TO MATCH EXISTING. IF FENCE REMAINS REMOVED FOR MORE THAN ONE DAY OF BEAM REMOVAL, CONTRACTOR SHALL INSTALL TEMPORARY FENCING TO SECURE THE STADIUM AREA. STEEL FENCE AND GATES WITH MESH INFILL SHALL NOT BE REMOVED (BETWEEN COLUMN LINES 2 & 3).
- PROTECT EXISTING CONCRETE GUARDRAILS DURING DURATION OF CONSTRUCTION THAT ARE REQUIRED TO BE REMOVED FOR ACCESS TO DOUBLE-T BEAMS.

DEMOLITION PLAN NOTES TO SHEET

- (D1) EXISTING DOUBLE "T" CONCRETE BEAM & TOPPING SLAB (CONCOURSE) TO BE REMOVED, SEE STRUCTURAL DRAWINGS. BEAM SHALL BE REMOVED FROM SITE.
- (D2) EXISTING STEEL GUARDRAILS TO BE REMOVED. RAILS ARE 12'-2" LONG SEGMENTS BOLTED TO STEEL PLATE ON CONCRETE CURB TOP BE REMOVED.
- (D3) ALTERNATE #1: EXISTING DOUBLE "T" CONCRETE BEAM & TOPPING SLAB (CONCOURSE) TO BE REMOVED, SEE STRUCTURAL DRAWINGS. BEAM SHALL BE REMOVED FROM SITE.
- (D4) ALTERNATE #1: EXISTING DOUBLE "T" CONCRETE BEAM & TOPPING SLAB (CONCOURSE) TO BE REMOVED, SEE STRUCTURAL DRAWINGS. RAILS ARE 12'-2" LONG SEGMENTS BOLTED TO STEEL PLATE ON CONCRETE CURB TO BE REMOVED.
- (D5) ALTERNATE #1: CUT EXISTING CONCRETE SLAB THIS LOCATION. PREPARE ALL EDGES FOR NEW CONCRETE SLAB WITH CLEAN AND FLUSH TRANSITIONS.
- (D6) CUT EXISTING CONCRETE SLAB THIS LOCATION. PREPARE ALL EDGES FOR NEW CONCRETE SLAB WITH CLEAN AND FLUSH TRANSITIONS.
- (D7) EXISTING STEEL FENCE TO REMAIN.
- (D8) PROTECT EXISTING PIPING DURING DEMOLITION AND CONSTRUCTION.

2 OVERALL FLOOR PLAN (SE)
SCALE: 1/8" = 1'-0"

ALTERNATES
ALTERNATE #1
NEW CONCRETE SLAB AND ASSOCIATED STRUCTURE FOR ENTIRE ADJACENT BAY (BETWEEN COLUMN LINES 4 & 5)
ALTERNATE #2
ALL TOILET PARTITIONS (WITH ENGRAVED GAMECOCK DOOR LOGO) FOR WOMEN'S RESTROOM

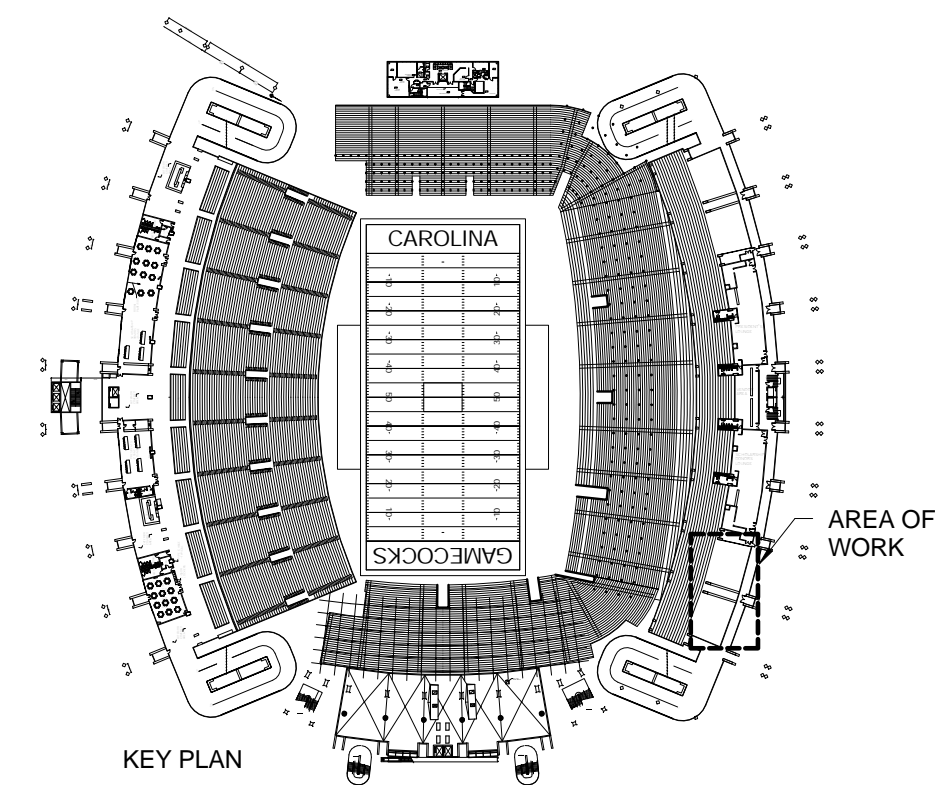
3 ROOF PLAN (SE)
SCALE: 1/8" = 1'-0"

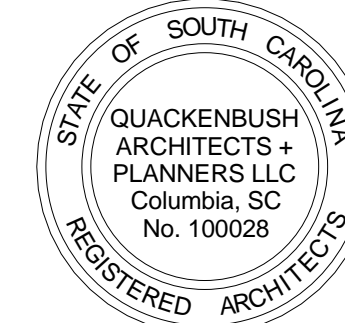
GENERAL ROOF NOTES:

- ENTIRE ROOF SYSTEM SHALL BE MECHANICALLY FASTENED SINGLE PLY PVC MEMBRANE WITH 1" RIGID ROOF INSULATION.
- VTR FLASHING SHALL BE BY ROOFING CONTRACTOR AND MEET REQUIREMENTS FOR SPECIFIED WARRANTY.
- PVC ROOF EXPANSION JOINTS AT COLUMN SHALL BE INSTALLED PER MANUFACTURERS INSTRUCTIONS AND INCLUDED IN THE WARRANTY.

ROOF NOTES TO SHEET:

- ROOFING MEMBRANE SEAM, COORDINATE LOCATIONS WITH CONCRETE DOUBLE T BEAMS ABOVE FOR INSTALLATION.
- INSTALL INSULATION CRICKET AT COLUMNS TO MAINTAIN DRAINAGE.





**UNIVERSITY
OF SOUTH
CAROLINA**

**WBS WOMEN'S
RESTROOM
CONST. (SE)**

WILLIAMS BRICE STADIUM

BID SET

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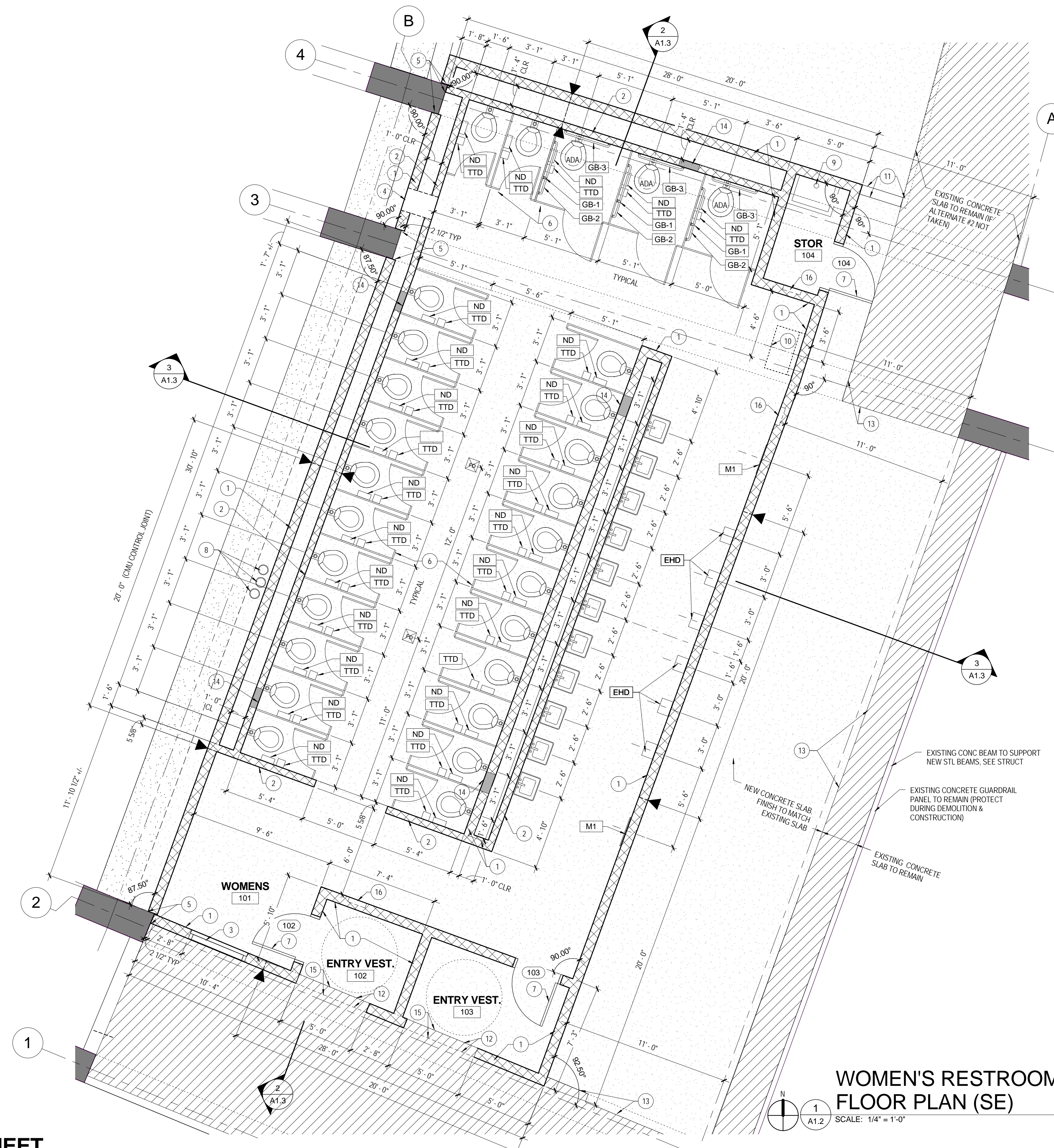
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| Checked By | BLH |
| State Project No. | H27-Z054 |

TITLE

**FLOOR
PLANS**

SHEET NO.

A1.2



**WOMEN'S RESTROOM
FLOOR PLAN (SE)**



ALTERNATES

ALTERNATE #1
NEW CONCRETE SLAB AND ASSOCIATED STRUCTURE FOR ENTIRE ADJACENT BAY (BETWEEN COLUMNS LINES 4 & 5)

ALTERNATE #2
ALL TOILET PARTITIONS (WITH ENGRAVED GAMECOCK DOOR LOGO) FOR WOMEN'S RESTROOM

GENERAL NOTES:

- CONTRACTOR SHALL COORDINATE ALL WORK WITHIN EXISTING AREA WITH OWNER.
- CONTRACTOR TO CLEAN ENTIRE WORK AREA PRIOR TO BEGINNING WORK. PREPARE ALL SURFACES AS REQ'D TO RECEIVE NEW FINISHES.
- CMU INFILL AT ROOF BEAMS SHALL BE CONTINUOUS AND SMOOTH & FLUSH. FILL ALL GAPS SOLID.

PLAN NOTES TO SHEET

- NEW 8" CMU WALL W/ HORIZONTAL JOINT REINFORCING. SEE STRUCT DWGS FOR REINFORCING AND BOND BEAM LOCATIONS. EXTEND WALL TO DECKING WITH 1/2" GAP FOR MOVEMENT. PAINT ALL EXPOSED SIDES OF WALLS.
- NEW 6" CMU WALL W/ HORIZONTAL JOINT REINFORCING. SEE STRUCT DWGS FOR REINFORCING AND BOND BEAM LOCATIONS. EXTEND WALL TO DECKING WITH 1/2" GAP FOR MOVEMENT. PAINT ALL EXPOSED SIDES OF WALLS.
- LOUVER L1, SEE SHEET A1.4
- EXHAUST FAN, SEE MECHANICAL DRAWINGS.
- 3/4" CMU CONTROL JOINT AT EXISTING CONCRETE COLUMN. INSTALL VERTICAL BACKER ROD AND SEALANT AT BOTH SIDES OF NEW WALL.
- NEW SOLID PHENOLIC TOILET PARTITIONS WITH ENGRAVED GAMECOCK LOGO ON EACH DOOR PROVIDED AND INSTALLED BY OWNER (SEE ALTERNATE #2)
- NEW HOLLOW METAL DOOR AND FRAME, PAINTED. DOOR SIZE: 7'-0" H x 3'-0" W. SEE SHEET A1.4 FOR DOOR DETAILS.
- EXISTING PIPING TO REMAIN, PROTECT DURING CONSTRUCTION. FIELD VERIFY EXACT LOCATION OF PIPE AND COORDINATE LOCATION OF 8" CMU CHASE WALL TO ACCOMMODATE PIPING, NOTIFY ARCHITECT IF 1'-0" CLEAR DIMENSION CANNOT BE MAINTAINED FOR CHASE.
- NEW 24" x 24" MOP SINK, SEE PLUMBING DRAWINGS
- BABY CHANGING STATION PROVIDED AND INSTALLED BY OWNER
- 8" CMU WALL 4' HIGH THIS LOCATION, PAINTED TO MATCH ADJACENT WALL. FIELD VERIFY LENGTH TO ALIGN W/ EXISTING GUARDRAIL (MINIMUM GAP OF 4"). PROVIDE 1/2" JOINT & CONTINUOUS SEALANT AT ADJACENT CMU WALL (ALL SIDES). TOP COURSE TO BE SOLID BLOCK. SEE STRUCTURAL FOR REINFORCING. (WALL IS NOT NEEDED IF BASE BID 2 IS SELECTED). CORNER OF ADJACENT CMU WALLS SHALL BE CONTINUOUS IN EVENT SHORT WALL IS REMOVED.
- BOTTOM OF BOND BEAM LINTEL AT 7'-4" AFF. SEE STRUCT (PAINTED)
- PROVIDE 1/2" CONTROL JOINT WITH EXPANSION MATERIAL AND SEALANT AT EDGE OF NEW CONCRETE SLAB AND EXISTING CONCRETE SLAB. FIELD VERIFY EXACT LOCATIONS OF EXISTING SLAB EDGES.
- WALL ACCESS PANEL, COORDINATE EXACT LOCATION AND HEIGHT WITH SHOCK ABSORBER. SEE PLUMB. PAINT TO MATCH WALL. PANEL TO BE 16"x16" MINIMUM, IF PANEL IS INSTALLED IN LOCATION SO THAT EQUIPMENT IS NOT ACCESSIBLE, CONTRACTOR SHALL RELOCATE PANEL AT NO ADDITIONAL COST.
- EXISTING CONCRETE SLAB AT THIS LOCATION SHALL BE SMOOTH AND FLUSH WHERE EXISTING RAIL CURB WAS REMOVED.
- ELECTRIC WALL HEATER, SEE MECHANICAL DRAWINGS.

TOILET ACCESSORIES

- GB-1 18" VERTICAL STAINLESS STEEL GRAB BAR (CFCI)
- GB-2 42" LONG STAINLESS STEEL GRAB BAR MOUNTED AT 34" AFF (CFCI)
- GB-3 36" STAINLESS STEEL GRAB BAR MOUNTED AT 34" AFF (CFCI)
- TTD TOILET TISSUE DISPENSER (OFOI)
- ND STAINLESS STEEL NAPKIN DISPOSAL (CFCI)
- EHD ELECTRIC HAND DRYER (OFCI)
- MI MIRROR - 24" W x 36" H (CFCI)

* ALL TOILET ACCESSORIES SHALL BE PROVIDED AND INSTALLED BY OWNER WITH THE EXCEPTION OF GRAB BARS, MIRRORS AND NAPKIN DISPOSALS.

* ALL ELECTRIC HAND DRYERS SHALL BE PROVIDED BY OWNER AND INSTALLED BY CONTRACTOR.



UNIVERSITY OF SOUTH CAROLINA

WBS WOMEN'S RESTROOM CONST. (SE)

WILLIAMS BRICE STADIUM

BID SET

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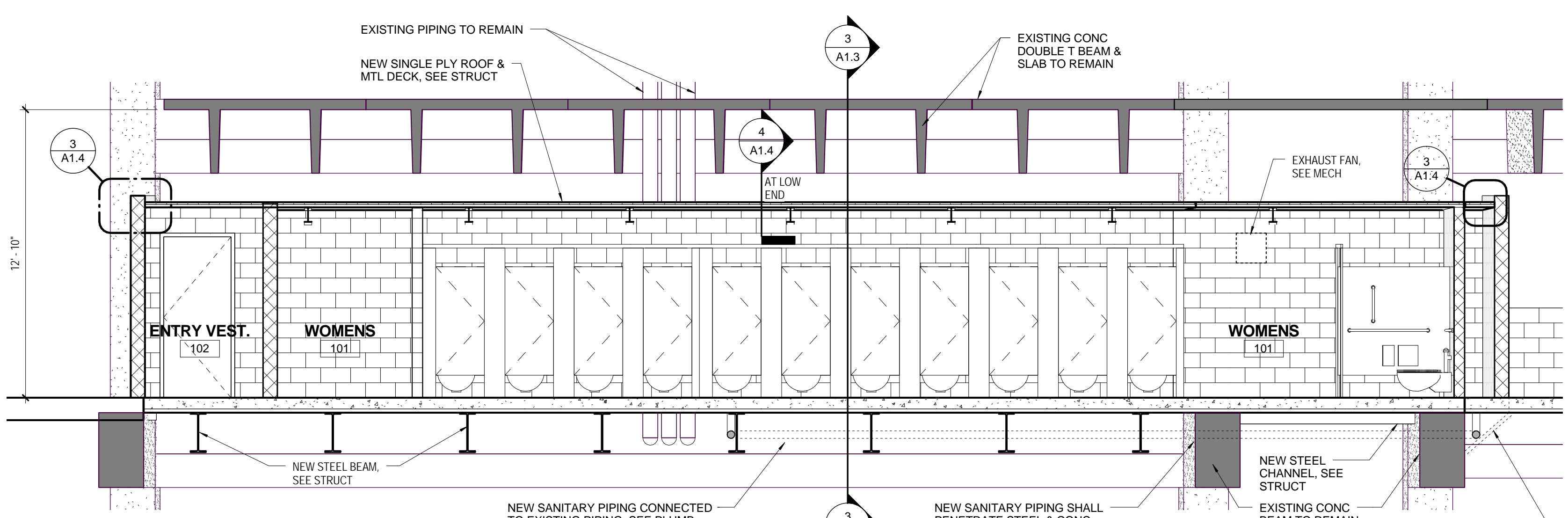
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SHEET INFORMATION

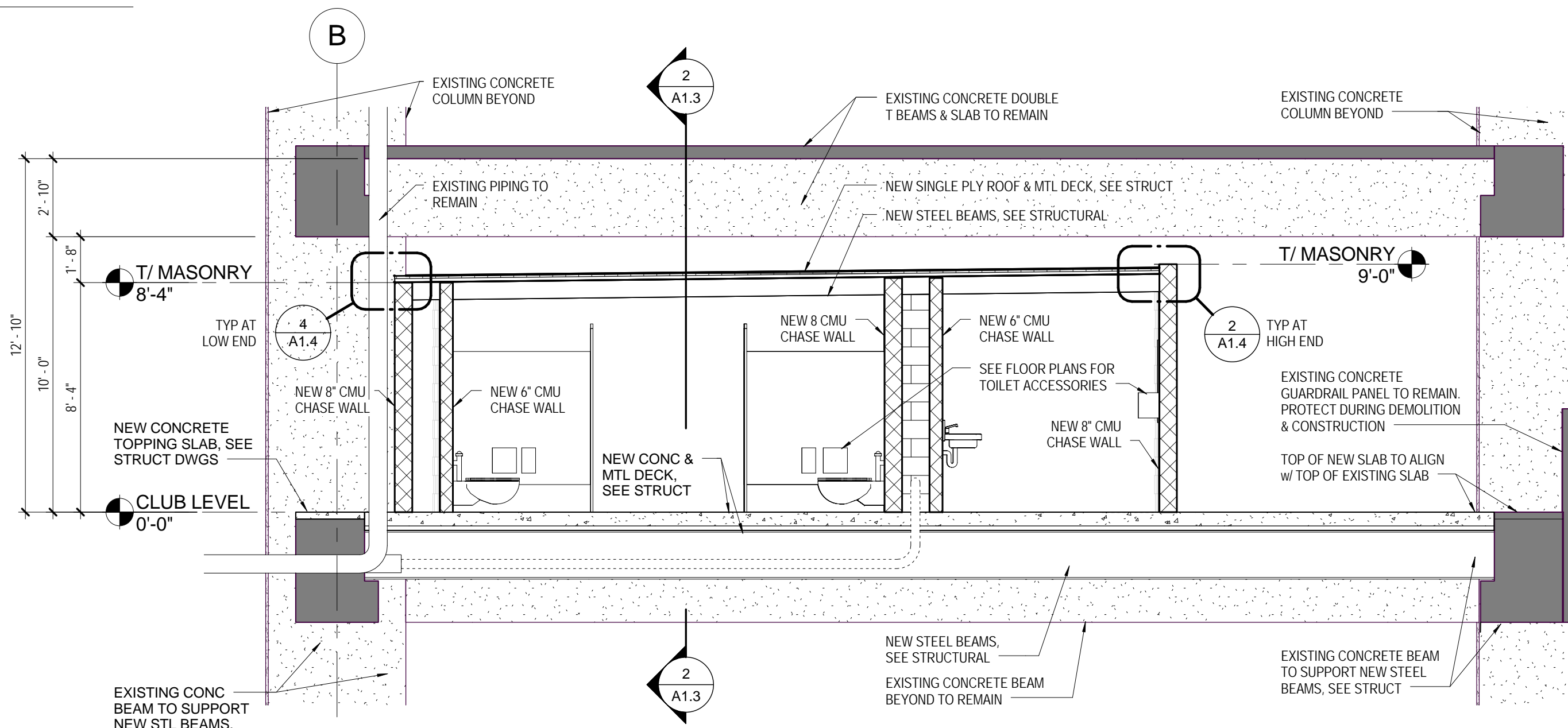
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| Date | 03.04.13 |
| Project No. | 12.130.06 |
| Scale | As indicated |
| Drawn By | HCW |
| Checked By | BLH |
| State Project No. | H27-Z054 |

TITLE

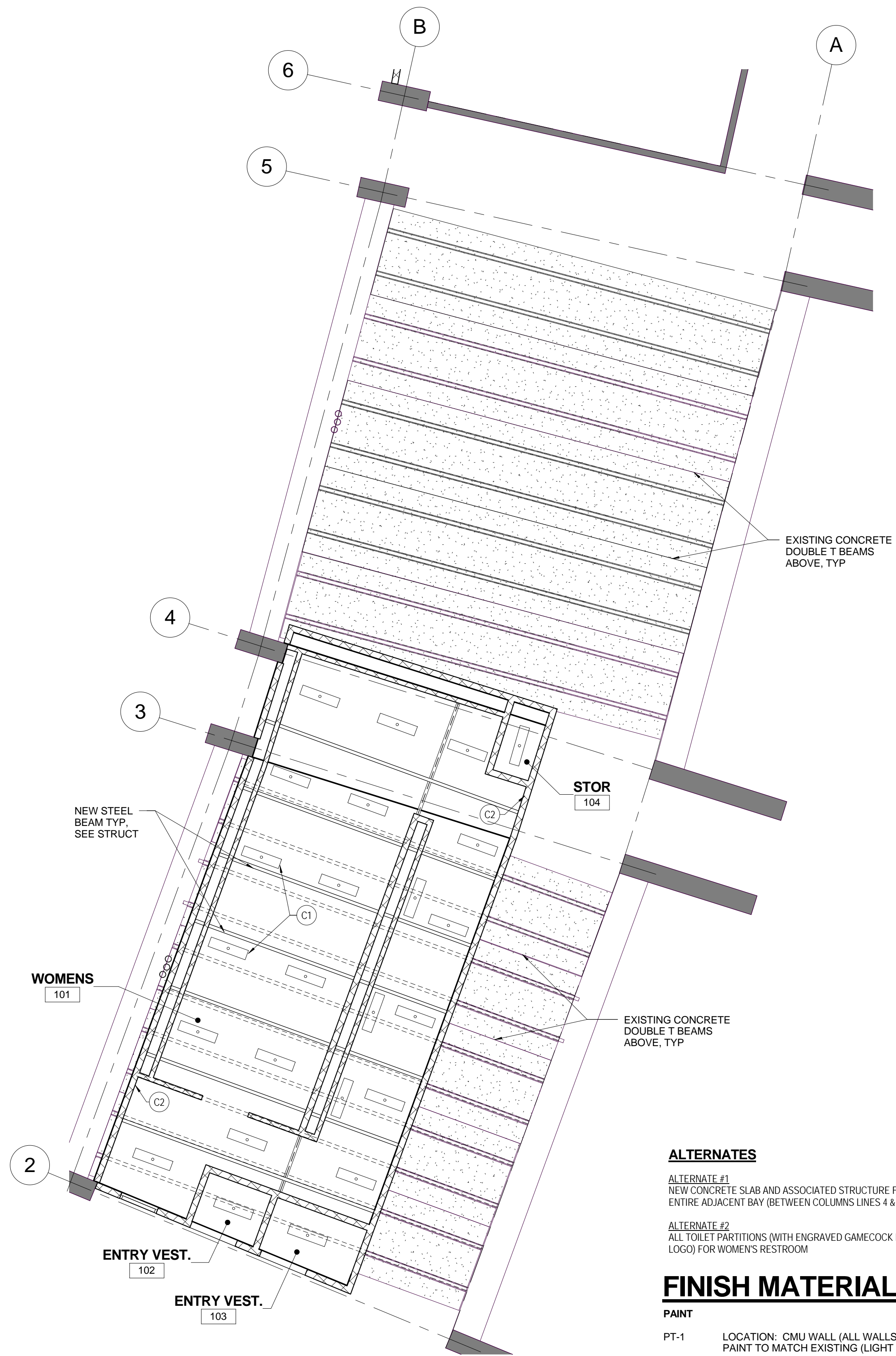
REFLECTED CEILING PLAN AND BUILDING SECTIONS



SECTION AT WOMENS RESTROOM (SE)
SCALE: 1/4" = 1'-0"



SECTION AT WOMENS RESTROOM (SE)
SCALE: 1/4" = 1'-0"



RESTROOM ADDITION RCP (SE)
SCALE: 1/8" = 1'-0"

RCP NOTES TO SHEET

- C1 SUSPENDED LIGHT FIXTURE PROVIDED AND INSTALLED BY OWNER, TYPICAL. SEE ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.
- C2 LOCATION FOR WALL MOUNTED FAN, OFOI. SEE ELECTRICAL FOR COORDINATION.

ALTERNATES

ALTERNATE #1
NEW CONCRETE SLAB AND ASSOCIATED STRUCTURE FOR ENTIRE ADJACENT BAY (BETWEEN COLUMNS LINES 4 & 5)

ALTERNATE #2
ALL TOILET PARTITIONS (WITH ENGRAVED GAMECOCK DOOR LOGO) FOR WOMEN'S RESTROOM

FINISH MATERIALS

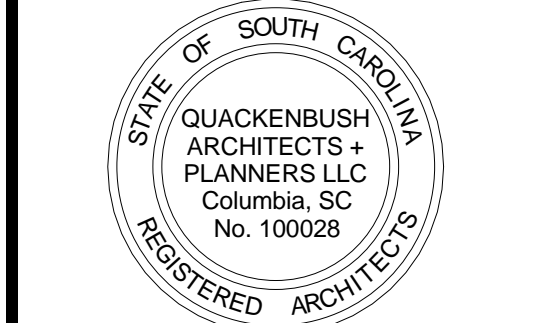
- PAINT**
- PT-1 LOCATION: CMU WALL (ALL WALLS, ALL SIDES INTERIOR & EXTERIOR) PAINT TO MATCH EXISTING (LIGHT GRAY), SW 7022 ALPACA
 - PT-2 LOCATION: EXPOSED STRUCTURE (INSIDE ROOMS) CEILING WHITE, SW 7021 SIMPLE WHITE
 - PT-3 LOCATION: HM FRAMES AND DOORS PAINT TO MATCH EXISTING (BLACK)
 - PT-4 LOCATION: EXPOSED STEEL AND FLOOR DECK (UNDERNEATH), SW 7051 ANALYTICAL GRAY

- FLOOR**
- SC-1 LOCATION: ENTIRE FLOOR INSIDE RESTROOM & STORAGE ROOM

* VERIFY ON SITE WITH ARCHITECT THAT PAINT COLORS LISTED ABOVE MATCH COLORS USED FOR RESTROOM CONSTRUCTED IN 2011 AT NE CORNER

GENERAL FINISH NOTES

- 1) PREPARE ALL EXISTING WALLS, CEILING, AND FLOORS TO RECEIVE NEW FINISHES AS SCHEDULED.
- 2) STEEL FLOOR BEAMS BE PREPARED, PRIMED AND PRE-PAINTED IN SHOP PER SPECIFICATIONS. TOUCH UP AS REQUIRED AFTER INSTALLATION.
- 3) DO NOT PAINT EXISTING CONCRETE COLUMNS OR BEAMS.
- 4) PAINT ALL EXPOSED STEEL & DECKING, CONDUIT & PIPING UNLESS NOTED OTHERWISE.



UNIVERSITY OF SOUTH CAROLINA

WBS WOMEN'S RESTROOM CONST. (SE)

WILLIAMS BRICE STADIUM

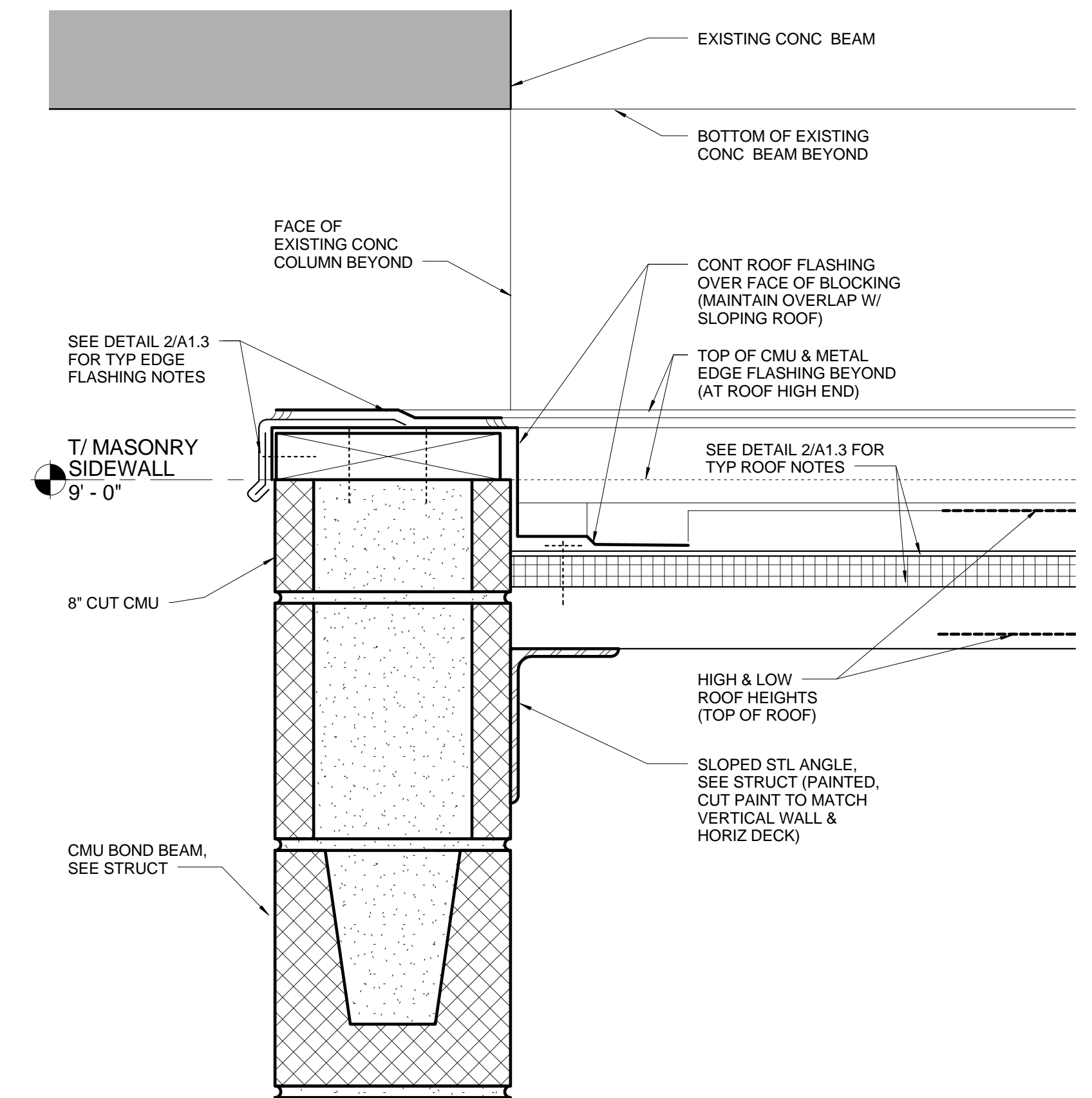
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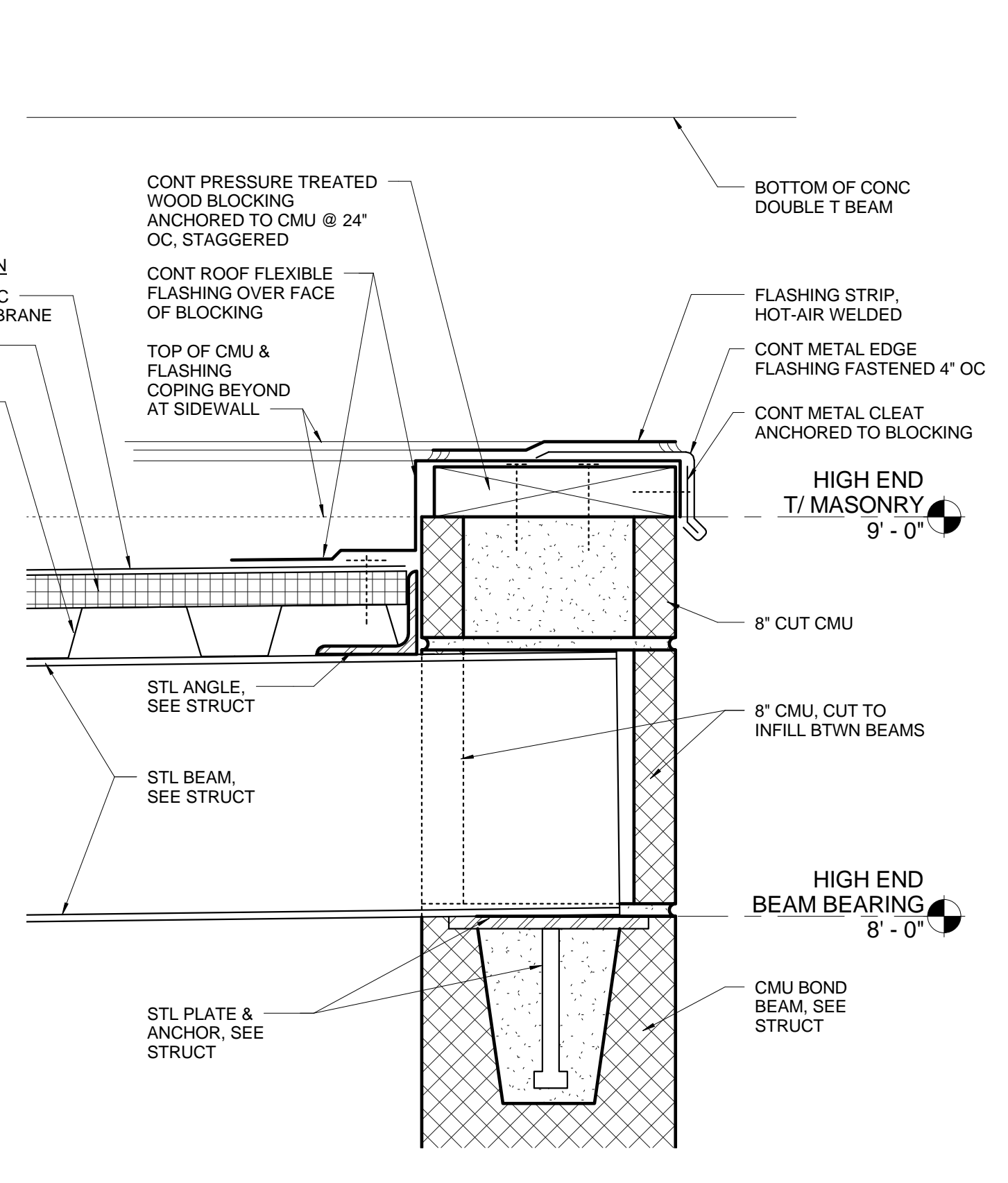
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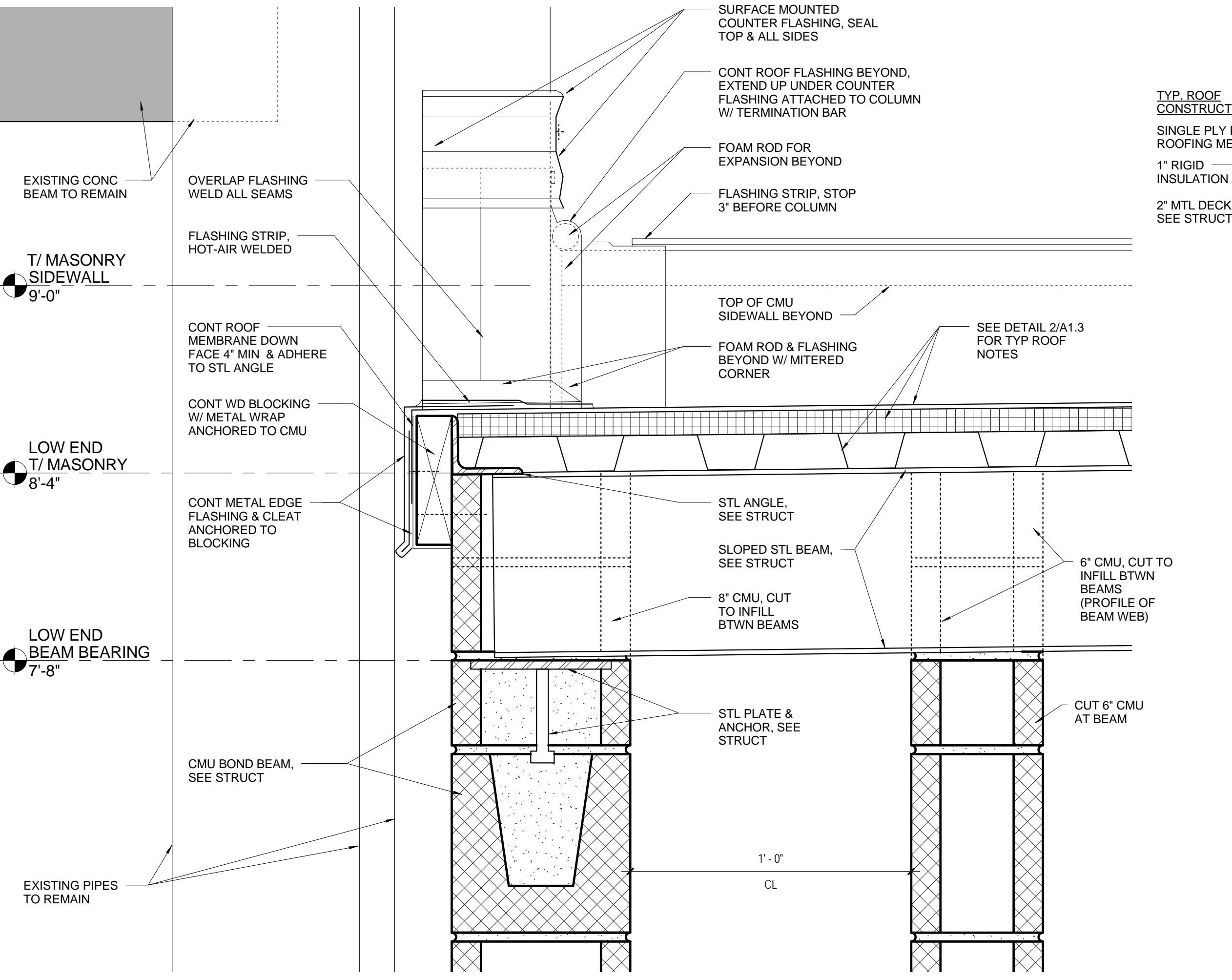
DOOR AND ROOF AND DETAILS



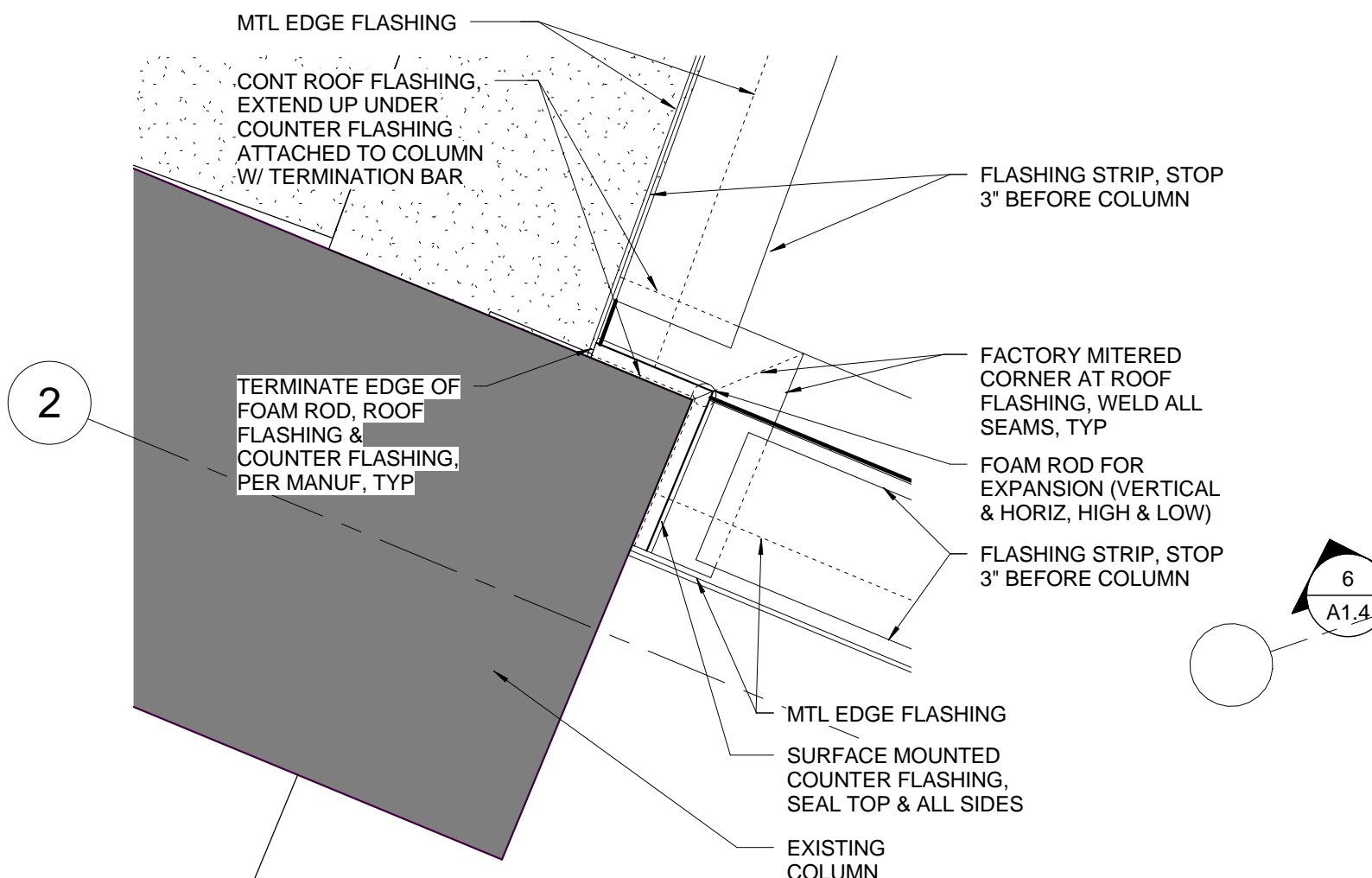
3 SIDEWALL ROOF DETAIL SECTION
SCALE: 3" = 1'-0"



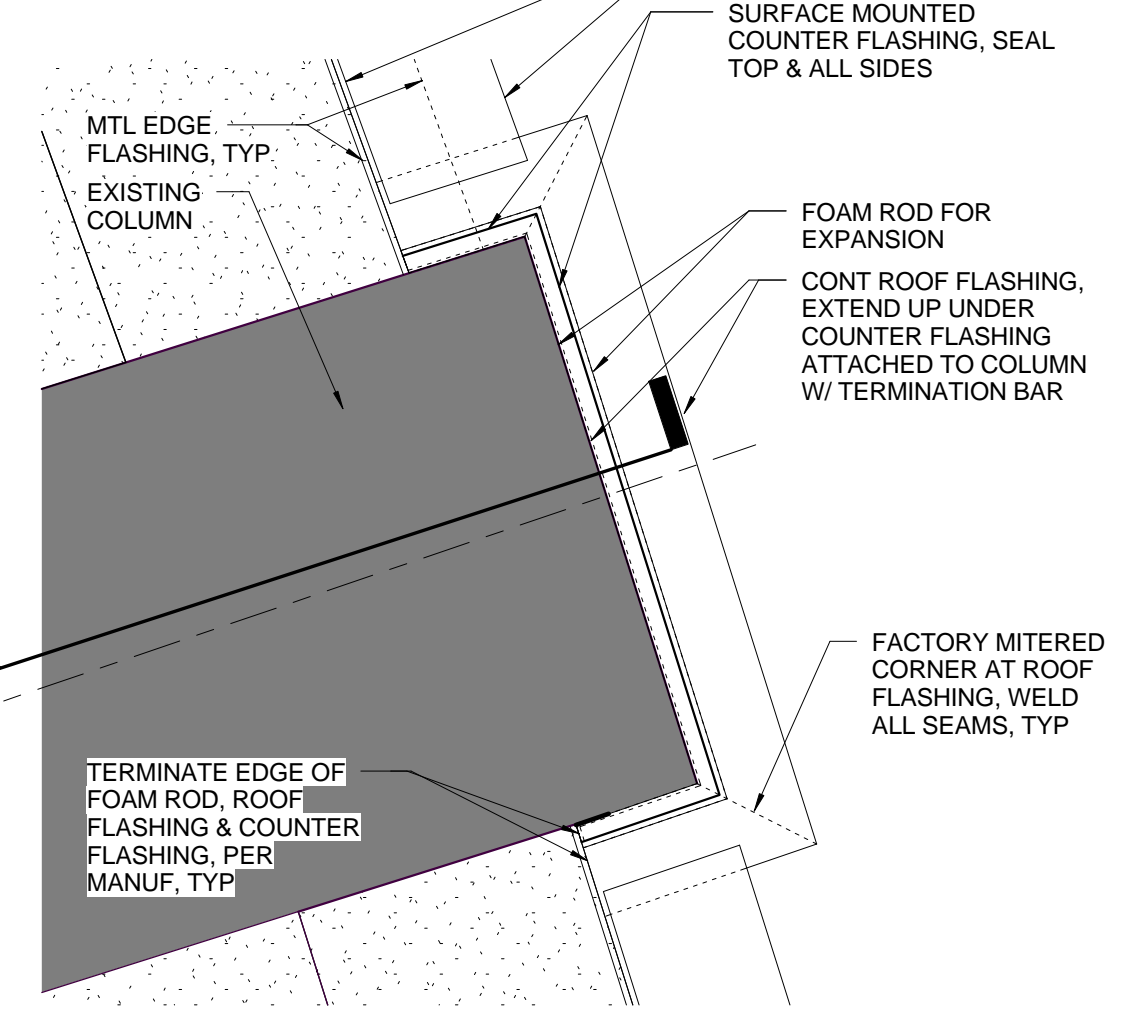
2 HIGH END ROOF DETAIL SECTION
SCALE: 3" = 1'-0"



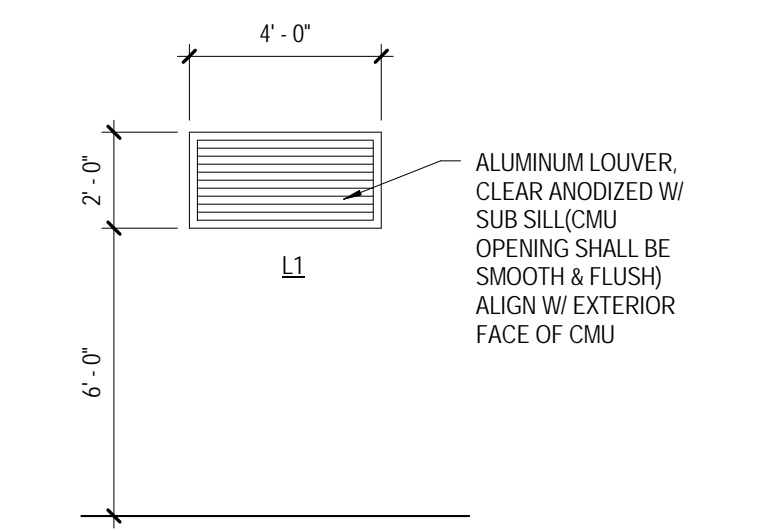
4 LOW END ROOF DETAIL SECTION
SCALE: 3" = 1'-0"



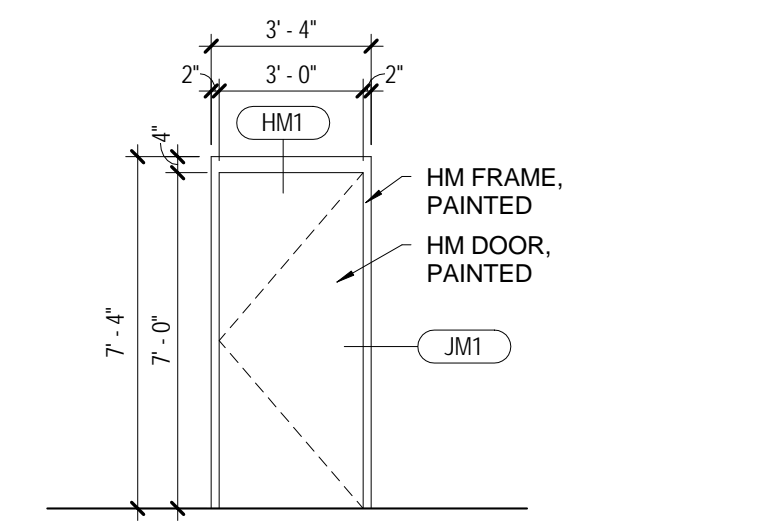
7 ROOF PLAN DETAIL
SCALE: 1 1/2" = 1'-0"



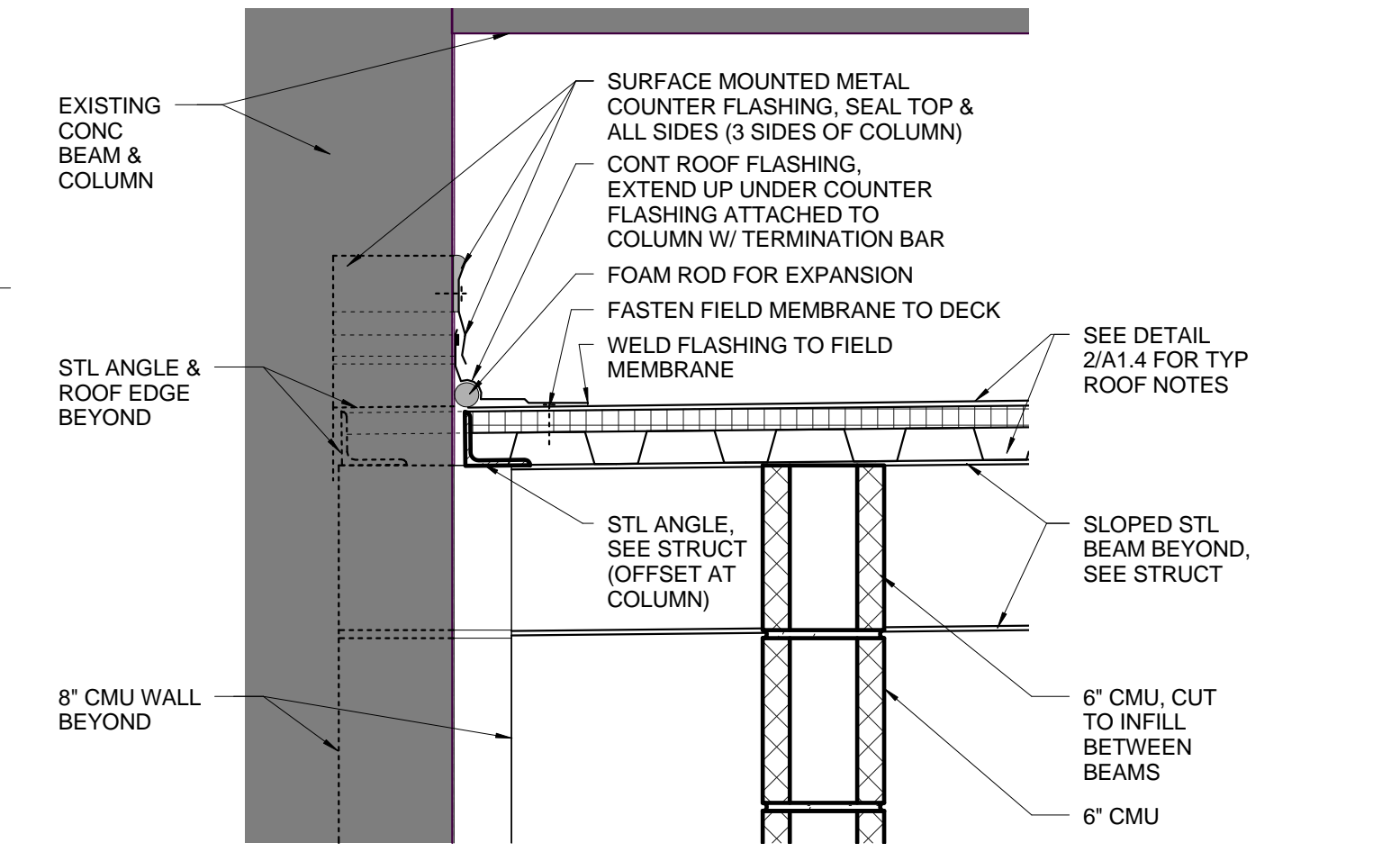
8 ROOF PLAN DETAIL
SCALE: 1 1/2" = 1'-0"



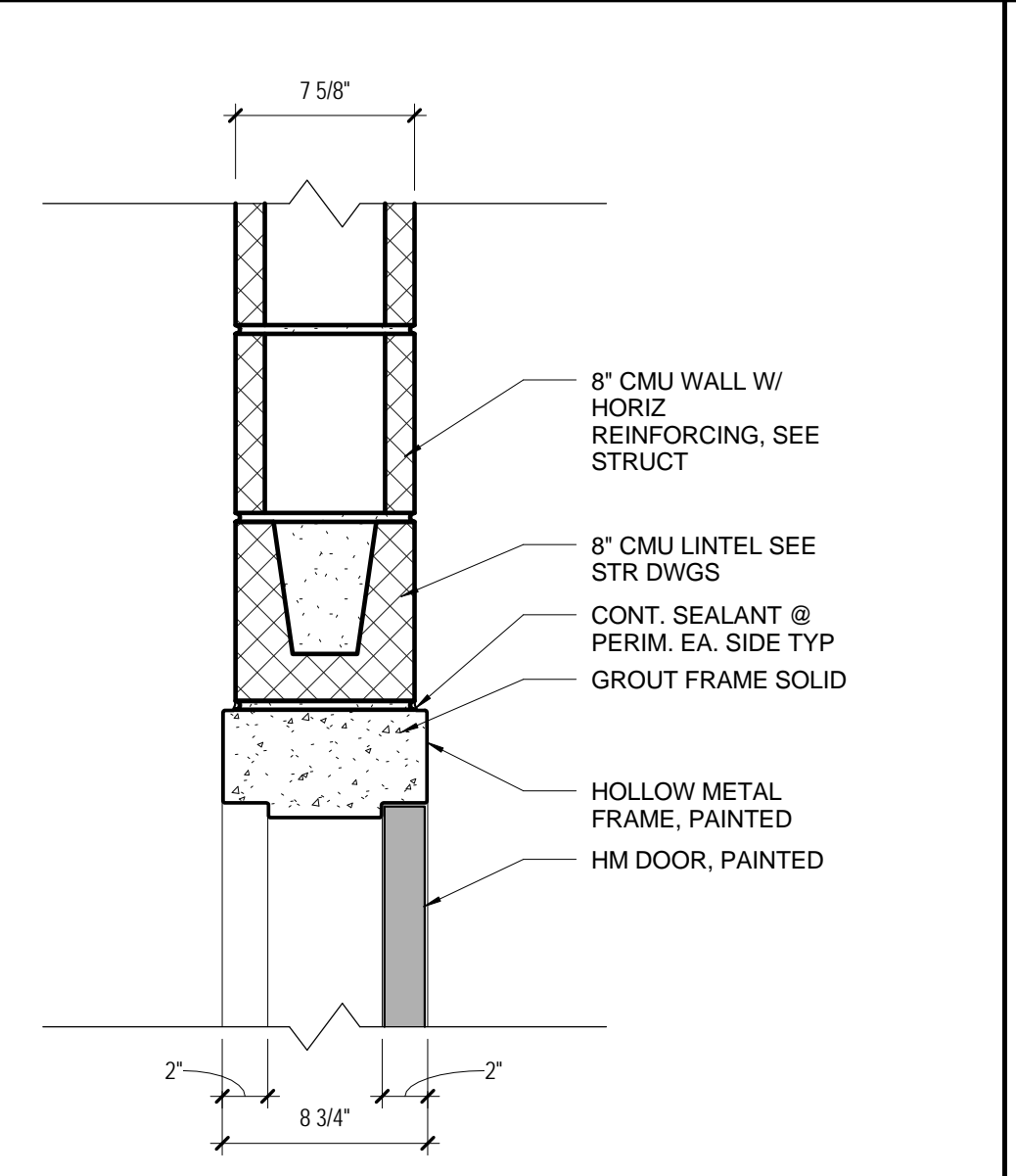
10 LOUVER ELEVATION
SCALE: 1/4" = 1'-0"



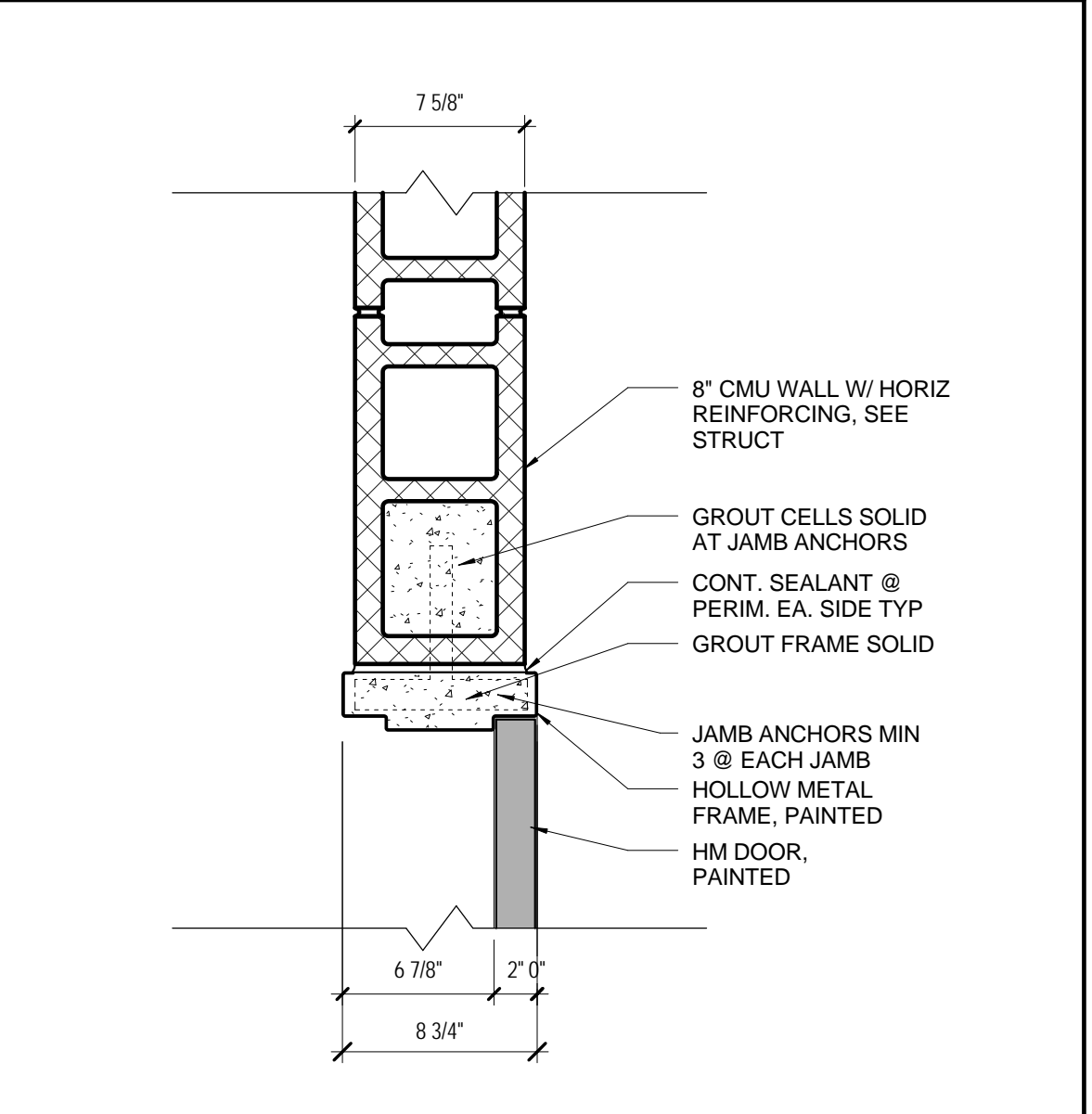
5 DOOR ELEVATION
SCALE: 1/4" = 1'-0"



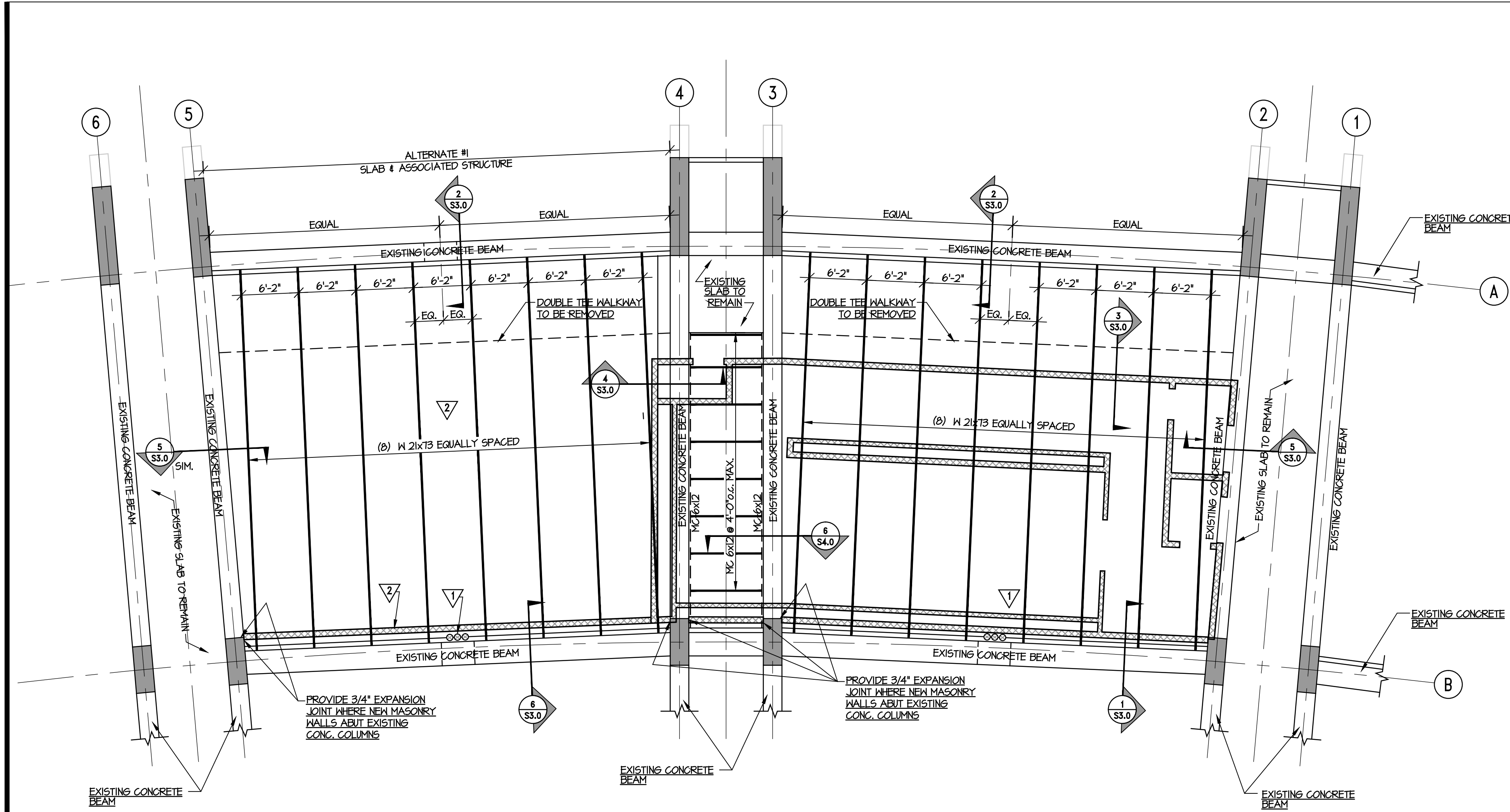
6 SECTION ROOF DETAIL - LOW AT COLUMN
SCALE: 1 1/2" = 1'-0"



HM1 HEAD DETAIL
SCALE: 1-1/2" = 1'-0"



JM1 JAMB DETAIL
SCALE: 1-1/2" = 1'-0"



FRAMING PLAN - CLUB LEVEL
SCALE = 1/8" = 1'-0"

STRUCTURAL/GENERAL NOTES:

- THE NOTES PRESENTED IN THESE STRUCTURAL DRAWINGS ARE TO PROVIDE THE CONTRACTOR (AND SUBCONTRACTORS) WITH USEFUL INFORMATION PERTAINING TO THE STRUCTURAL WORK REQUIRED FOR THIS PROJECT. MANY OF THE NOTES PRESENTED HERE HAVE BEEN SPECIFICALLY GENERATED TO BRING ATTENTION TO CERTAIN ASPECTS AND/OR CONDITIONS WHICH MAY BE SPECIFIC TO THIS PROJECT OR PERTAINING TO CERTAIN REQUIREMENTS BY KYZER AND TIMMERMAN. IN SOME CASES A BOOK OF SPECIFICATIONS (SPECIFICATION BOOK) MAY BE PROVIDED BY THE LEAD DESIGNER WHICH SHALL BE CONSIDERED AS SUPPLEMENTAL INFORMATION TO THESE DRAWINGS. IN THE EVENT OF ANY CONFLICTING INFORMATION IN THE STRUCTURAL DRAWINGS, OR BETWEEN THE STRUCTURAL DRAWINGS AND SPECIFICATIONS, THE CONTRACTOR SHOULD FAX A REQUEST FOR INFORMATION (RFI) TO THE APPROPRIATE DESIGNER, IN THE APPROPRIATE OFFICE, OF KYZER AND TIMMERMAN. THE LEADER OF THE DESIGN TEAM (ARCHITECT) SHOULD BE COPIED. THE CONTRACTOR SHOULD ASSUME THE MOST STRINGENT CONDITION UNTIL A RULING IS MADE. THE RESPONSE TIME FOR THE RFI WILL DEPEND ON THE REQUIRED RESEARCH AND MAY INVOLVE A RESPONSE FROM INDIVIDUALS OUTSIDE THE OFFICE OF KYZER AND TIMMERMAN.
- 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 THE PROVIDERS FOR THE DESIGN OF SHORING, SCAFFOLDING, FORMING OR PROJECT SAFETY. THOUGH A REPRESENTATIVE FROM KYZER AND TIMMERMAN MAY VISIT THE SITE, OUR PERSONNEL ARE TYPICALLY NOT HIRED OR TRAINED TO RECOGNIZE THE PROJECT SAFETY REQUIREMENTS AS REQUIRED BY REGULATIONS OR SPECIFIED BY THE CONTRACTOR AND/OR HIS SAFETY OFFICER(S).
- THE CONTRACTOR IS ADVISED TO VISIT THE SITE PRIOR TO BID FOR THE PURPOSES OF DETERMINING SITE CONDITIONS WHICH MAY ADVERSELY AFFECT THE BID FOR THE PROJECT.
- THE CONTRACTOR SHALL NOTIFY THE STRUCTURAL ENGINEER AND ARCHITECT OF ANY UNUSUAL AND/OR EXCESSIVE LOADS DUE TO EQUIPMENT OR CONSTRUCTION REQUIREMENTS PRIOR TO CONSTRUCTION. ANY ADDITIONAL COSTS ASSOCIATED WITH THESE ADDITIONAL LOADS SHALL BE CONSIDERED PART OF THE CONTRACTOR'S ORIGINAL SCOPE OF WORK.
- THE CONTRACTOR SHALL VERIFY SIZES AND LOCATIONS OF ALL SLOTS, PIPE SLEEVES, ANCHOR BOLTS, ETC. AS REQUIRED FOR ALL TRADES PRIOR TO CONSTRUCTING THAT PORTION OF THE PROJECT.
- CONTRACTOR SHALL MAKE NO DEVIATIONS FROM DESIGN DRAWINGS AND SPECIFICATIONS WITHOUT WRITTEN APPROVAL OF THE ARCHITECT AND/OR STRUCTURAL ENGINEER.
- THE CONTRACTOR SHALL BUILD THIS PROJECT IN ACCORDANCE TO ALL APPLICABLE BUILDING CODES AND SAFETY STANDARDS AND/OR REGULATIONS.
- THESE STRUCTURAL DRAWINGS ARE TO BE USED FOR DESCRIBING THE STRUCTURAL SYSTEM FOR THE PROJECT. FLOOR AND WALL FINISHES, TILES, FIXTURES AND ALL OTHER NON-STRUCTURAL COMPONENTS SHALL BE DESIGNED AND/OR SELECTED BY OTHER PROFESSIONALS. THE CONTRACTOR SHALL SHOULDER THE RESPONSIBILITY FOR INSTALLATION PERFORMANCE, DURABILITY OR MAINTENANCE FOR THESE ITEMS.
- 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 BUILDING CODE(S).
- 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, CONDUITS, ETC.
- THE CONTRACTOR SHALL REFER TO THE ARCHITECTURAL AND/OR VENDOR DRAWINGS FOR LOCATIONS OF DEPRESSED FLOOR AREAS, FLOOR DRAINS, FLOOR TOPPING, CMU COURSING AND ANY OTHER DETAILS NOT SHOWN ON THE STRUCTURAL DRAWINGS.
- EXISTING BUILDINGS/STRUCTURES: DIMENSIONS, ELEVATIONS, AND EXISTING CONDITIONS WILL REQUIRE FIELD VERIFICATION. DEPENDING ON FIELD CONDITIONS BEYOND THE DESIGNER'S CONTROL, SOME STRUCTURAL/ARCHITECTURAL SECTIONS AND/OR DETAILS WILL REQUIRE MODIFICATION. THE CONTRACTOR SHALL INCLUDE THE ALLOWANCE NECESSARY TO PERFORM THESE MODIFICATIONS AND ASSOCIATED WORK. THE CONTRACTOR PERFORMING ALL WORK IS EXPECTED TO HAVE AT LEAST 5 YEARS EXPERIENCE IN PROJECTS OF THIS TYPE, SIZE AND SCOPE OF WORK. THE CONTRACTOR SHALL TAKE SPECIAL CARE TO OBSERVE THE FIELD CONDITIONS AND CONSTRUCTION DOCUMENTS FOR ACCURACY.

PLAN NOTES:

- ▽ - CONTRACTOR TO SLEEVE AROUND EXISTING PIPES AT PENETRATION OF NEW CONG. SLAB
- △ - ALTERNATE #1

CONCRETE:

- 28 DAY MINIMUM CONCRETE COMPRESSIVE STRENGTH SHALL BE AS FOLLOWS:

| | |
|-----------------------------|----------|
| SLABS ON FORM DECK | 4000 PSI |
| TOPPING FOR PRECAST MEMBERS | 4000 PSI |

- THE CONTRACTOR SHALL TAKE ADDITIONAL PRECAUTIONS WHEN CONCRETE IS TO BE PLACED AND CURED DURING COLD OR HOT WEATHER. THE CONTRACTOR SHALL FOLLOW THE RECOMMENDATIONS PRESCRIBED BY AMERICAN CONCRETE INSTITUTE FOR COLD OR HOT WEATHER CONSTRUCTION.
- NO ADDITIONAL WATER SHALL BE ADDED TO THE CONCRETE ABOVE THAT PRESCRIBED IN THE MIX DESIGN UNLESS APPROVED BY THE ARCHITECT OR STRUCTURAL ENGINEER.
- REINFORCING STEEL: ASTM A 615, GRADE 60, MINIMUM LAP IN CONCRETE SHALL BE IN ACCORDANCE WITH ACI-308
- WELDED WIRE FABRIC SHALL BE LAPPED A MINIMUM OF 12".
- ALL PLUMBING SLOTS SHALL BE FILLED WITH CONCRETE TO THE SAME DEPTH AS THE FLOOR SLAB AFTER PIPING IS INSTALLED.
- THE GENERAL CONTRACTOR SHALL SUBMIT REBAR SHOP DRAWINGS SHOWING NUMBER, SIZE AND LOCATION, INCLUDING BAR LISTS AND DIAGRAMS, TO THE ARCHITECT FOR APPROVAL. TO PREVENT A POSSIBLE DELAY IN THE APPROVAL PROCESS, THE STRUCTURAL DRAWINGS SHALL NOT BE DUPLICATED IN THE SHOP DRAWING PROCESS. TO PREVENT DELAY IN CONSTRUCTION, SHOP DRAWINGS SHALL BE SUBMITTED TO ALLOW FOR AMPLE TIME FOR REVIEW AND FABRICATION.

THE STRUCTURAL DRAWINGS ARE NOT TO BE REPRODUCED FOR SHOP DRAWINGS, SECTION SHEETS OR ERECTION PLANS. THE CONTRACTOR SHALL SUBMIT AN AMPLIFIED 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 IN THE SCHEDULE TO ALLOW FOR ADEQUATE FABRICATION TIME. THE MEMBERS OF THE DESIGN TEAM SHALL RECEIVE A FINAL SET OF SHOP DRAWINGS STAMPED "FINAL SHOP DRAWINGS" - FILE SETS WHICH INCORPORATES ANY COMMENTS MADE DURING THE SHOP DRAWING PROCESS AND SHALL BE STAMPED BY A REGISTERED ENGINEER REGISTERED IN THE PROJECT STATE.

- REBAR DOVELS SHALL MATCH VERTICAL REINFORCING (NO).
- PROVIDE PROPERLY TIED SPACERS, CHAIRS, BOLSTERS, ETC. AS REQUIRED AND NECESSARY TO ASSEMBLE, PLACE AND SUPPORT ALL REINFORCING. USE WIRE BAR TYPE SUPPORTS COMPLYING WITH CRSI RECOMMENDATIONS-USE PLASTIC TIP LEGS ON ALL EXPOSED CONCRETE.
- SEE ARCHITECTURAL DRAWINGS FOR REQUIRED CONCRETE FINISH/COLOR, SPECIAL FLATNESS REQUIREMENTS, ETC. ALL CONCRETE SHALL BE PROPERLY CURED IMMEDIATELY AFTER FINISHING.

- 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.

- AT APPLICATIONS REQUIRING NEW CONCRETE TO BE PLACED AGAINST EXISTING CONCRETE, THE EXISTING CONCRETE SHALL BE PROPERLY ROUGHENED, 1/4" HIGH TO LOW, AND A SUITABLE BONDING AGENT APPLIED PRIOR TO PLACING NEW CONCRETE. THE SURFACE PREPARATION AND BONDING AGENT IS IN ADDITION TO THE ANY DOVELS AS SPECIFIED IN THE DETAILS.

- CARE SHALL BE TAKEN TO PROPERLY WATERPROOF THE UPPERMOST FLOOR AND EXPOSED AREAS OF CONCRETE (PARKING DECKS, PATIOS, ETC.) TO PREVENT WATER SEEPAGE.
- THE CONTRACTOR SHALL INSTALL PROPERLY PREPARED CAULKED JOINTS IN THE CONCRETE TOPPING SLABS AT ALL JOINTS IN PRECAST MEMBERS INCLUDING FLOOR TO WALL JOINTS.

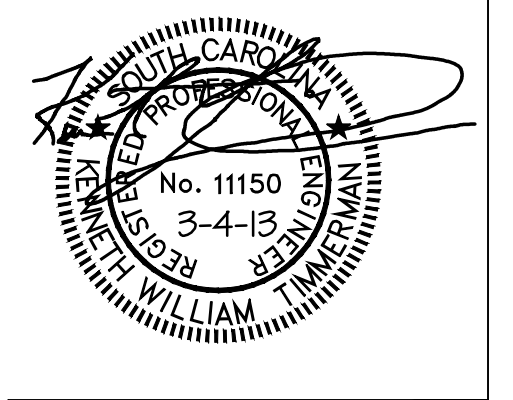
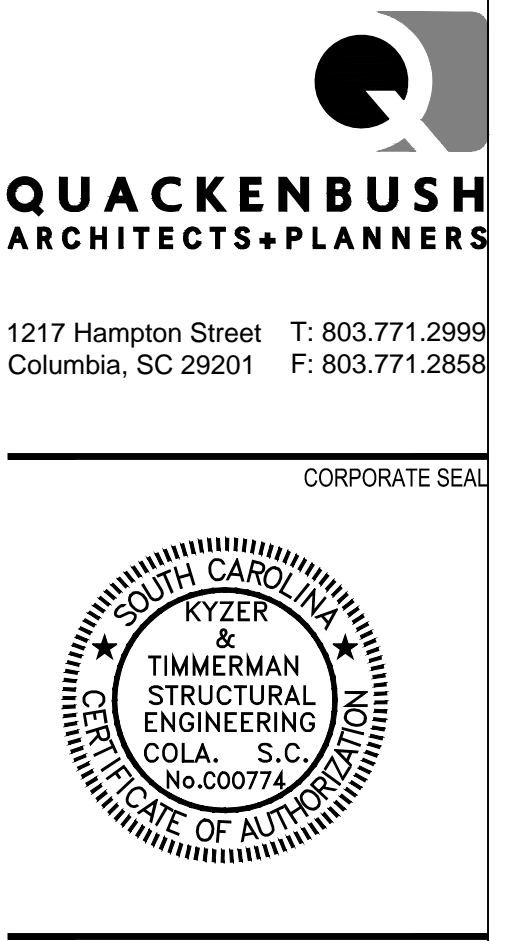
MASONRY:

- THE MASONRY DIMENSIONS ON THIS PROJECT ARE CONSIDERED AS NOMINAL DIMENSIONS. THE SHAPE AND ACTUAL SIZE OF THE MASONRY UNITS SHALL BE CONSIDERED IN THE BUILDING AND WALL LAYOUT PLAN.
- FOR ALL BEAMS BEARING INTO (ONTO) MASONRY WALLS, THE CONTRACTOR SHALL FILL ALL MASONRY CELLS BELOW THE BEARING CONDITION WITH 2500 PSI GROUT. A #5 BAR SHALL BE PLACED IN EACH OF THESE CELLS DOWN TO THE FOUNDATION (OR FLOOR LINE FOR ELEVATED SLABS).
- ALL LINTEL BEAMS TO BEAR A MINIMUM OF 16" ON EACH SIDE OF ALL OPENINGS GREATER THAN ONE FOOT IN WIDTH. ALL CELLS UNDER BEARING CONDITION SHALL BE REINFORCED WITH WALL REBAR IN EACH CELL. BARS SHALL EXTEND DOWN TO FOUNDATION (OR FLOOR FOR ELEVATED SLABS). HOOKED DOVELS SHALL BE PLACED IN ALL MASONRY BOND BEAMS. THESE BARS SHALL BE OF SUFFICIENT LENGTH TO LAP WITH THE VERTICAL BARS IN THE MASONRY WALL ABOVE.
- IN THE EVENT THAT PRE-CAST LINTELS ARE USED IN MASONRY WALLS, THE CONTRACTOR SHALL INSTALL AN ADDITIONAL #5 BAR IN EACH CELL BELOW THE BEARING CONDITION. VERTICAL WALL REBAR (#5 BAR MINIMUM) SHALL BE PLACED IN EACH OF THE NEXT TWO CELLS (UNINTERRUPTED) BEYOND THE END OF THE PRECAST LINTEL. THESE BARS SHALL EXTEND FROM FOUNDATION TO FLOOR OR ROOF ABOVE. FOR ELEVATED SLABS THE BARS SHALL EXTEND DOWN TO THE ELEVATED FLOOR ELEVATION. THE CONTRACTOR SHALL INSTALL HORIZONTAL BARS ABOVE AND BELOW THE WINDOW AND DOOR OPENINGS AS INDICATED IN PREVIOUS NOTE.
- THE CONTRACTOR SHALL INSTALL SUFFICIENT REBAR PLACEMENT WALL TIES TO ENSURE THE PROPER PLACEMENT OF ALL HORIZONTAL AND VERTICAL REBAR.
- ALL MASONRY ACCESSORIES (INCLUDING LINTEL PLATES AND ANGLES) SHALL BE GALVANIZED. HORIZONTAL BED JOINT REINFORCEMENT SHALL BE GALVANIZED AS REQUIRED BY APPLICATION, MANUFACTURER'S RECOMMENDATIONS AND APPLICABLE BUILDING CODES. ALL LINTEL PLATES AND ANGLES SHALL HAVE A MINIMUM THICKNESS OF 3/8" UNLESS OTHERWISE NOTED.
- MASONRY REBAR LAP SPLICES SHALL BE:
 - #4 BARS = 24" LAP
 - #5 BARS = 30" LAP
 - #6 BARS = 48" LAP
 - #7 BARS = 60" LAP
 - #8 BARS = 90" LAP
- CONCRETE MASONRY TO HAVE A MINIMUM F_m OF 1500 PSI. THIS IS TO BE ACHIEVED BY USING A CONCRETE BLOCK MASONRY UNIT WITH A NET AREA COMPRESSIVE STRENGTH OF 2000 PSI WHEN USED IN CONJUNCTION WITH TYPE M OR S MORTAR.
- ALL MASONRY SHALL BE PLACED IN FULL MORTAR BED. ALL MORTAR SHALL BE TYPE "M" OR "S".
- THE INTERSECTION OF ALL LOAD BEARING MASONRY WALLS SHALL BE TIED OR ATTACHED AT INTERSECTIONS OR WHERE THEY MEET BY ONE OF THE FOLLOWING METHODS:
 - STEEL CONNECTIONS: WALLS SHALL BE ANCHORED AT INTERSECTIONS USING 2" WIDE X 0.25" THICK BY 24" LONG STRAPS (GALVANIZED) PLUS A 2"-40 DEGREE BEND AT EACH END. STEEL STRAPS SHALL BE PLACED IN MORTAR BEDS AT 48" ON CENTER VERTICALLY.
 - BONDING OF UNITS: FIFTY PERCENT OF THE MASONRY UNITS SHALL BE LAID IN AN OVERLAPPING PATTERN. MASONRY UNITS FORMING THE BONDING PATTERN SHALL BEAR NO LESS THAN 3 INCHES ON THE UNITS BELOW.
 - JOINT REINFORCEMENT: INTERSECTIONS WALLS MAY BE JOINED USING MASONRY WALL REINFORCEMENT SPACED AT 8 INCHES ON CENTER VERTICALLY. THE WIRE SIZE SHALL BE AT LEAST #17 AND EXTEND AT LEAST 30 INCHES FROM THE INTERSECTION.

- SEE ARCHITECTURAL DRAWINGS FOR LOCATIONS OF MASONRY WALLS NOT SHOWN ON THE STRUCTURAL DRAWINGS.
- SEE ARCHITECTURAL DRAWINGS FOR LOCATIONS OF MASONRY CONTROL JOINTS & BRICK EXPANSION JOINTS. ALL CONTROL JOINTS AND EXPANSION JOINTS SHALL BE INSTALLED IN ACCORDANCE TO THE STANDARDS SET FORTH BY THE NATIONAL CONCRETE MASONRY ASSOCIATION. IN NO CASE SHALL EXTERIOR WALL JOINTS BE SPACED GREATER THAN 25 FEET ON CENTER AND INTERIOR WALL JOINTS SHALL NOT EXCEED 30 FEET ON CENTER. REINFORCED BOND BEAMS LOCATED AT ROOF AND/OR FLOOR DIAPHRAGMS SHALL BE CONTINUOUS THROUGH MASONRY JOINTS UNLESS OTHERWISE SPECIFIED IN THE STRUCTURAL DRAWINGS.
- THE GENERAL CONTRACTOR SHALL SUBMIT REBAR SHOP DRAWINGS SHOWING NUMBER, SIZE AND LOCATION, INCLUDING BAR LISTS AND DIAGRAMS, TO THE ARCHITECT FOR APPROVAL.
- RUNNING BOND MASONRY TO HAVE 9 GAGE LADDER TYPE JOINT REINFORCEMENT @ 16" ON CENTER VERTICALLY. PREFORMED BED JOINT REINFORCEMENT SHALL BE USED AT ALL WALL CORNERS AND INTERSECTIONS. ALL GAGE WIRE LADDER TYPE BED JOINT REINFORCEMENT SHALL BE LAPPED A MINIMUM OF 8 INCHES.
- CONTRACTOR SHALL INSTALL BOND BEAMS AT A MAXIMUM OF 4 FEET ON CENTER (AS MEASURED FROM THE TOP OF FOUNDATION) IN ALL LOAD BEARING MASONRY BLOCK WALLS AND SHEAR WALLS. FOR ALL NON-LOAD BEARING WALLS, BOND BEAMS MAY BE SPACED AT A MAXIMUM OF 8 FEET ON CENTER AS MEASURED FROM THE TOP OF FOUNDATION. 8" WIDE BOND BEAMS SHALL CONTAIN TWO #5 BARS. 12" WIDE BOND BEAMS SHALL CONTAIN TWO #6 BARS. THE CONTRACTOR MAY PLACE ELECTRICAL BOXES IN BOND BEAMS PROVIDED THE REBAR IS CONTINUOUS. AS A CONTRACTOR'S OPTION-DUE TO ELECTRICAL OUTLETS, SWITCHES AND OTHER BOXES LOCATED IN THE MASONRY BLOCK, THE CONTRACTOR MAY LOWER (OR RAISE) THE ELEVATION OF THE BOND BEAMS AS NEEDED TO MISS THESE (AND OTHER) BOXES-IN ANY CASE THE VERTICAL SPACING SHALL NOT EXCEED 48" ON CENTER. REINFORCED BOND BEAMS LOCATED AT ROOF AND/OR FLOOR DIAPHRAGMS SHALL BE CONTINUOUS THROUGH MASONRY JOINTS UNLESS OTHERWISE SPECIFIED IN THE STRUCTURAL DRAWINGS.

CONTRACTOR NOTE:
BASE BID : WOMEN'S RESTROOM (NOTE: TOILET PARTITIONS)
ALTERNATE #1
NEW CONCRETE SLAB AND ASSOCIATED STRUCTURE FOR ENTIRE ADJACENT BAY (BETWEEN COLUMN LINES 4 & 5)
ALTERNATE #2
ALL TOILET PARTITIONS FOR WOMEN'S RESTROOM

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UNIVERSITY OF SOUTH CAROLINA
WBS WOMEN'S RESTROOM CONST. (SE)

WILLIAMS BRICE STADIUM

BID SET

| REVISIONS | | |
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| NO | ISSUE | DATE |
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| SHEET INFORMATION | |
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| Date | 03.04.13 |
| Project No. | 12.130.06 |
| Scale | As Noted |
| Drawn By | AGB |
| Checked By | KWT |
| State Project No. | H27-2054 |

RESTROOM ADDITION FLOOR FRAMING PLAN & NOTES

KYZER & TIMMERMAN
STRUCTURAL ENGINEERS
580 Chris Drive, West Columbia S.C. 29169 Ph: 803.791.4511 Fax: 803.791.4522

KT-13-121
SHEET NO. S1.0

STRUCTURAL AND MISCELLANEOUS STEEL:

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

- A. ANCHOR BOLTSASTM A307
- B. CONNECTION BOLTSASTM A325 OR A490
- C. PLATES AND FLAT BARSASTM A36
- D. STEEL PIPEASTM A53, TYPE E OR S,
GRADE B, Fy=35ksi
- E. STRUCTURAL TUBINGASTM A500, GRADE B, Fy=46 KSI
- F. WIDE FLANGE SHAPESASTM A992, GRADE 50
- G. OTHER ROLLED SHAPESASTM A36
- H. MISCELLANEOUS SHAPESASTM A36

2. THE CONTRACTOR SHALL SUBMIT DETAILED STRUCTURAL STEEL SHOP DRAWINGS TO INCLUDE (BUT NOT LIMITED TO) COLUMN, 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 AMPLIFIED 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. AMPLIFIED 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 SET 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 SET. THE CONTRACTOR SHALL NOT CONSIDER THE SHOP DRAWING PROCESS COMPLETE UNTIL TIME THE STRUCTURAL ENGINEER RECEIVES THE SHOP DRAWINGS STAMPED @FINAL SHOP DRAWINGS - FILE SET. 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 UNFORSEEN CONDITIONS, THE CONTRACTOR MAY CONSIDER TO PROCEED (AT HIS OWN RISK) TO FABRICATE AND ERECT STEEL PRIOR TO COMPLETED SUBMITTALS.

3. TO LESSEN THE RISK OF ERROR DESIGNERS AND DETAILERS OF THE STRUCTURAL SYSTEMS AND COMPONENTS FOR THIS PROJECT SHALL BE PROVIDED COMPLETE SETS OF CONSTRUCTION DRAWINGS AND SPECIFICATIONS, THIS DONE TO ALLOW THE STEEL DETAILER TO IDENTIFY OTHER ADDITIONAL LOADS INCLUDING OPENINGS, DUCTS, HOODS, MECHANICAL AND OTHER SYSTEMS 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.

4. 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.

5. IN THE ABSENCE OF SPECIFIC GAMBER REQUIREMENTS, THE STEEL SHALL BE FABRICATED AND ERECTED WITH MILL GAMBER UP.

6. 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-70 ELECTRODES.

7. THE STRUCTURAL STEEL CONTRACTOR SHALL LOCATE, DESIGN AND PROVIDE WEB REINFORCEMENT AT ALL OPENINGS IN STEEL MEMBERS INCLUDING BEAMS, JOISTS AND GIRDERS. STEEL BEAMS, GIRDERS, BAR JOISTS AND MISCELLANEOUS STEEL MEMBERS SHALL BE FABRICATED TO INCLUDE ATTACHMENT HOLES (AND BOLTS) AS NECESSARY FOR ATTACHMENT OF OTHER FRAMING AND SECONDARY MEMBERS INCLUDING WOOD NAILERS, ANGLE BRACING, ETC., WHETHER OR NOT SPECIFICALLY DETAILED IN THE DRAWINGS.

8. ALL WELDS IN EXPOSED STEEL SHALL BE FIELD COATED W/ ZINC-RICH PAINT.

9. 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 DECIDED ACCORDING TO THE LOCATION OF THE STEEL, TYPE OF BUILDING AND OWNER'S REQUIREMENTS FOR COLOR, ETC. DECISIONS INVOLVING PAINT, COLOR AND SO ON SHALL BE PER OWNER.

10. COMPOSITE FLOOR SYSTEMS CONSISTING OF STEEL COMPOSITE FLOOR DECK WITH CONCRETE IS CONSIDERED AS A @RESTRAINED STRUCTURAL SYSTEM FOR FIREPROOFING PURPOSES.

11. THE ENDS OF ALL STEEL BEAMS AND JOIST GIRDERS SHALL BEAR FULLY ON BEARING PLATES.

12. TWO 1/2" DIAMETER X 6" LONG STEEL STUDS (STACKED) SHALL BE INSTALLED AT 16' O.C. ALONG THE TOP FLANGE OF ALL STEEL BEAMS SUPPORTING CAST CONCRETE OR MASONRY (I.N.O). IN NO CASE SHALL THESE STUDS BE DELETED. FILL ALL MASONRY CELLS CONTAINING STEEL STUDS WITH CONCRETE. MASONRY BLOCK WALLS SHALL BE SUPPORTED BY EITHER THE STEEL BEAM OR A 3/8" THICK (MINIMUM) GALVANIZED STEEL PLATE ATTACHED TO THE BEAM ALONG THE TOP OR BOTTOM FLANGE AS REQUIRED. THE STEEL PLATE MAY BE DELETED IF THE FLANGE WIDTH OF THE BEAM IS SUFFICIENT TO PROVIDE ADEQUATE BEARING FOR THE MASONRY. ALL KICKERS (IF APPLICABLE) SHALL BE INSTALLED TO THE STEEL BEAMS SUPPORTING MASONRY AS INDICATED IN THE STRUCTURAL DRAWINGS PRIOR TO LOADING OF THE MASONRY TO REDUCE TORSION ON THE BEAMS.

METAL DECKING:

1. THE CONTRACTOR SHALL SUBMIT DETAILED SHOP DRAWINGS SHOWING BEAMS, JOISTS, BRIDGING, DECKING (INCLUDING TEMPORARY SHORINGS) 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 AMPLIFIED 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. AMPLIFIED 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.

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

3. ALL METAL FLOOR DECKING SHALL BE 2" - 18 GAUGE (GALVANIZED) COMPOSITE DECKING MECHANICALLY FASTENED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. FASTENERS SHALL NOT EXCEED 12" O.C. UNLESS NOTED OTHERWISE.

4. ALL METAL ROOF DECKING SHALL BE 20 GAUGE, 1-1/2" DEEP TYPE 'B', GALVANIZED STEEL ROOF DECK (SEE PLAN FOR LOCATIONS) TO BE INSTALLED WITH A 36/5 FASTENER PATTERN AT ALL END AND INTERMEDIATE SUPPORTS WITH A MIN. OF 5 SIDE LAP FASTENERS PER SPAN. SIDE LAP FASTENERS TO BE #10 TEK SCREWS. SPECIFIC FASTENERS SHALL BE PER DECK FASTENING DETAILS ON DRAWINGS.

5. PROVIDE 4 X 4 X 1/4 ANGLES SURROUNDING ALL METAL DECK PENETRATIONS UNLESS OTHERWISE NOTED.

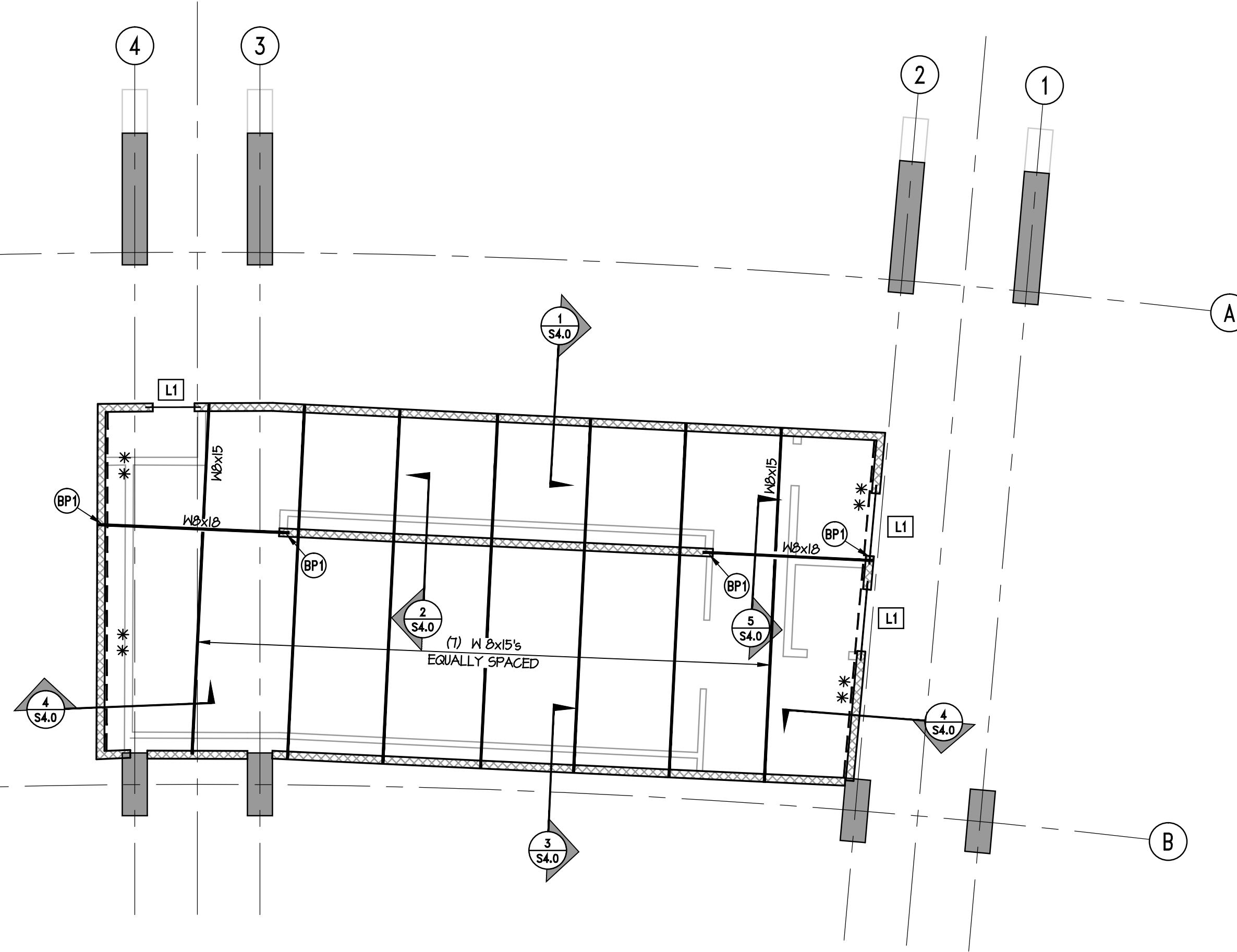
6. THE CONTRACTOR SHALL SUPPORT THE EDGE OF ALL ROOF AND FLOOR DECK WITH A STEEL ANGLE AND APPROPRIATE FASTENERS. A 5 X 3 X 1/4" ANGLE (LONG LEG VERTICAL) WITH 3/4" (4" EMBEDMENT) EXPANSION BOLTS AT 2'-0" ON CENTER SHALL BE USED AT ALL MASONRY AND CONCRETE WALLS UNLESS OTHERWISE INDICATED IN THE CONSTRUCTION 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.

7. CONTRACTOR SHALL PROVIDE TEMPORARY SHORINGS AS REQUIRED BY THE MANUFACTURER OR MEANS & METHODS FOR CONCRETE FILLED DECKING-INCLUDING COMPOSITE DECK. TEMPORARY SHORING DETERMINATIONS SHALL BE MADE BASED UPON THE GAGE, SPAN, TYPE OF DECK, CONCRETE HEIGHT AND ALLOWABLE DEFLECTION OF DECK. THE CONTRACTOR/SUBCONTRACTOR SHALL TAKE SPECIAL CARE TO ASSURE PROPER INSTALLATION AND SHORING OF ALL METAL DECKING PRIOR TO CONCRETE PLACEMENT. SEE ARCHITECTURAL DRAWINGS FOR CEILING AND SOFFIT REQUIREMENTS.

8. THE FIREPROOFING ASSOCIATED WITH STRUCTURAL ELEMENTS IS NOT SHOWN ON THE STRUCTURAL DRAWINGS. THE CONTRACTOR AND HIS SUBCONTRACTORS SHALL REFER TO THE ARCHITECTURAL DRAWINGS AND APPLICABLE BUILDING CODE FOR FIRE RATING INCLUDING MATERIALS AND METHODS.

9. DECK PAINTING/GALVANIZING SHALL BE COMPATIBLE WITH ADHESION REQUIREMENTS FOR ANY AREAS REQUIRING FIREPROOFING.

10. ALL STEEL SHOULD BE PRIMED, SEE ARCH FOR PAINT.



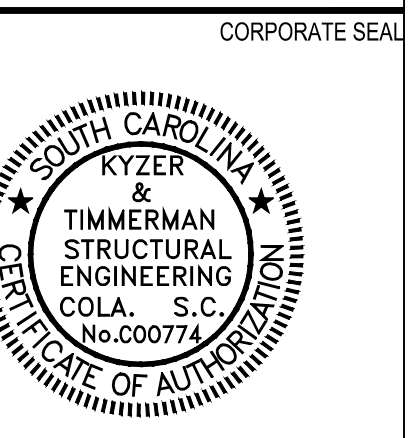
ROOF FRAMING PLAN
SCALE = 1/8" = 1'-0"

- [L1] - DENOTES 6" BOND BEAM LINTEL, REINFORCED W/ (2) #5 BARS CONT. B.O. BEAM - 7'-4" A.F.F.
- [BP1] - BEARING PLATE 1/2"x6"x1'-4" W/ (2) 3/8" DIA. x 6" LG. STUDS
- * * - DENOTES 1-5x3 1/2x5/16" LLV W/ 3/4" DIA. EPOXY BOLTS @ 48" O.C.

PLAN NOTE:
ALL BEARING WALLS TO BE 8" REINFORCED MASONRY SEE SECTIONS FOR REINFORCEMENT

QUACKENBUSH
ARCHITECTS+PLANNERS

1217 Hampton Street T. 803.771.2999
Columbia, SC 29201 F. 803.771.2858



UNIVERSITY OF SOUTH CAROLINA
WBS WOMEN'S RESTROOM CONST. (SE)

WILLIAMS BRICE STADIUM

BID SET

REVISIONS

| NO | ISSUE | DATE |
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| Date | 03.04.13 |
| Project No. | 12.130.06 |
| Scale | As Noted |
| Drawn By | AGB |
| Checked by | KWT |
| State Project No. | H27-2054 |

RESTROOM ADDITION ROOF FRAMING PLAN & NOTES

KT-13-121
SHEET NO.

S2.0

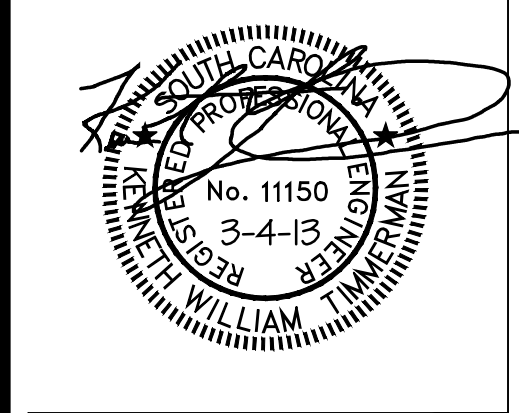
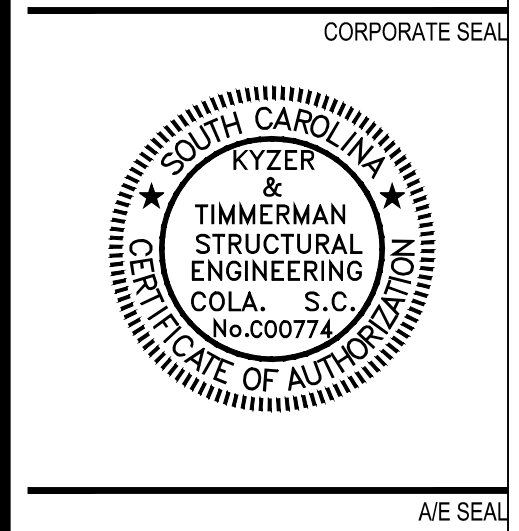
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KYZER & TIMMERMAN
STRUCTURAL ENGINEERS

580 Chris Drive, West Columbia S.C. 29169 Ph. 803.791.4511 Fax 803.791.4522

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UNIVERSITY OF SOUTH CAROLINA

WBS WOMEN'S RESTROOM CONST. (SE)

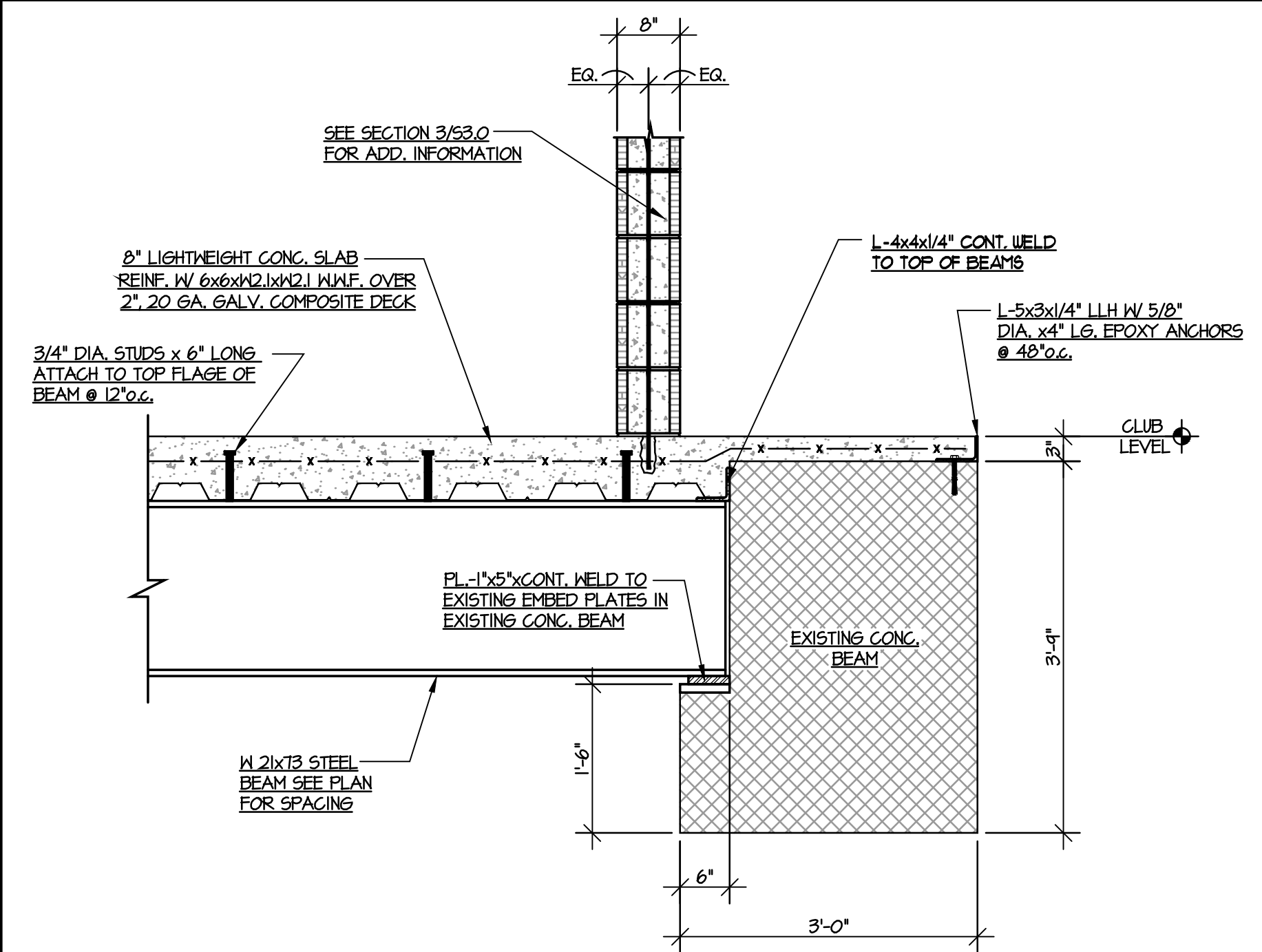
WILLIAMS BRICE STADIUM

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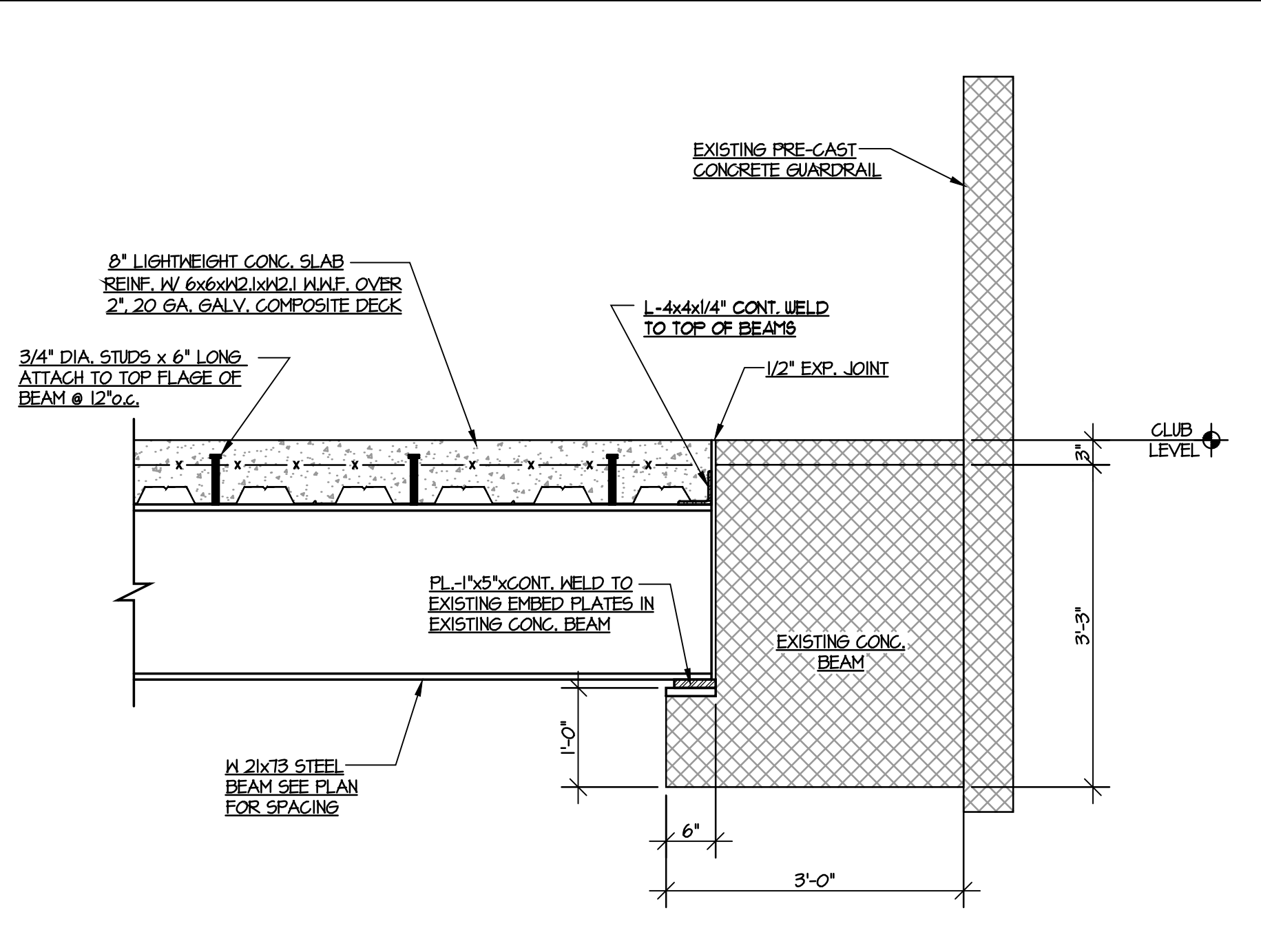
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| Date | 03.04.13 | |
| Project No. | 09.100.14 | |
| Scale | As Noted | |
| Drawn By | AGB | |
| Checked By | KWT | |
| State Project No. | H27-2054 | |

FLOOR FRAMING SECTIONS & DETAILS



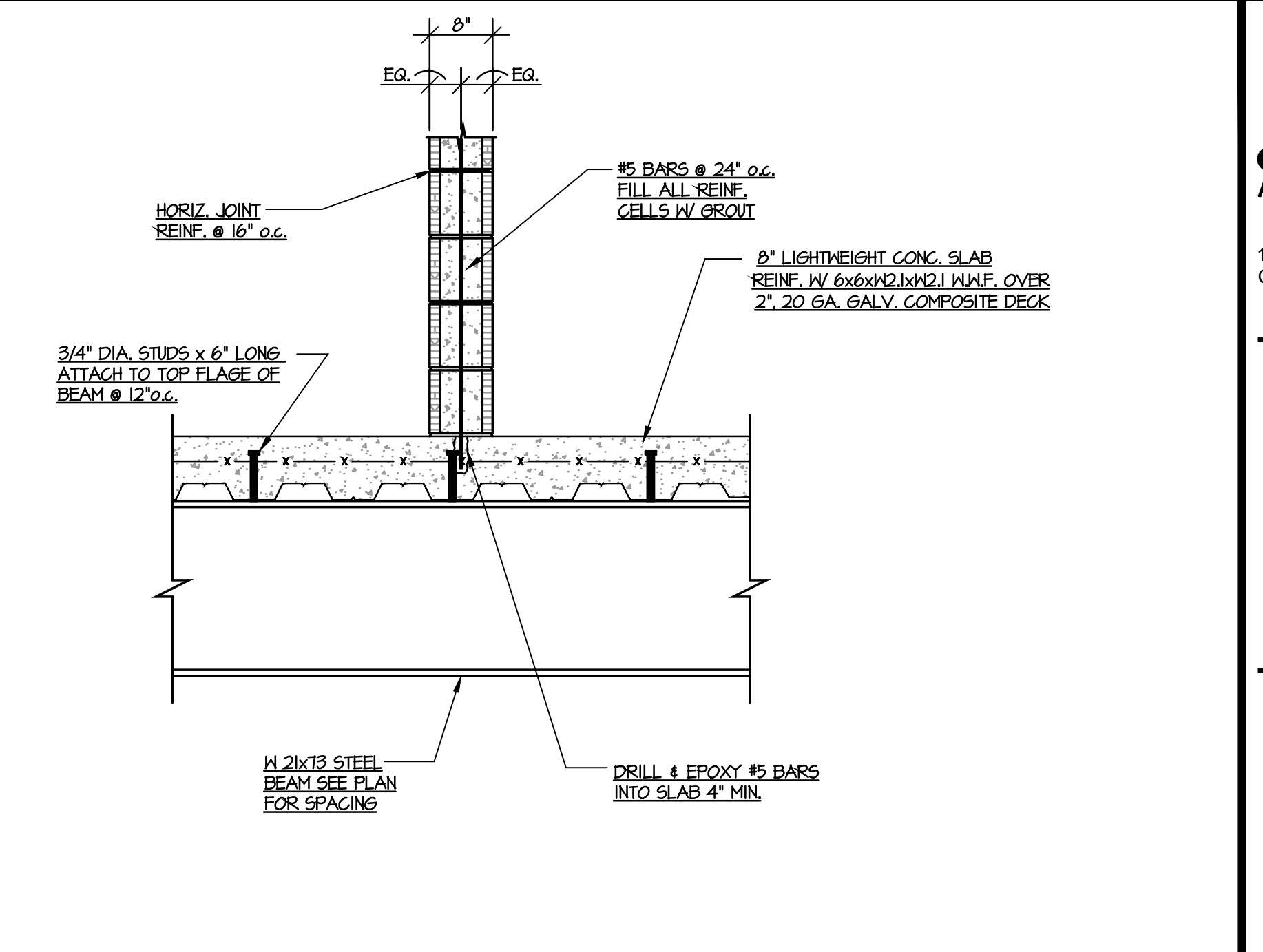
SECTION THRU EXISTING CONCRETE BEAM ALONG COLUMN LINE "B"

SECTION 1
S3.0



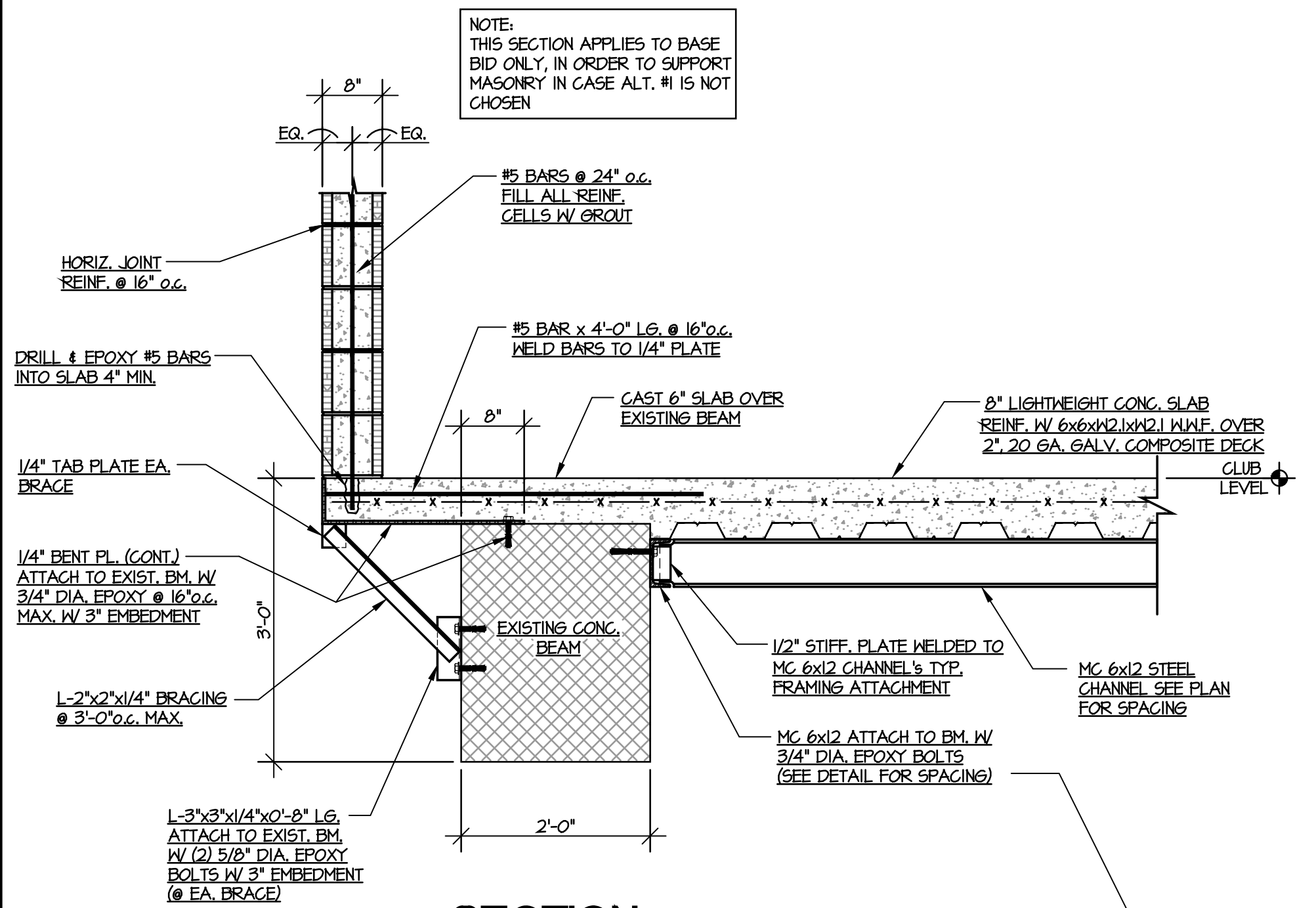
SECTION THRU EXISTING CONCRETE BEAM ALONG COLUMN LINE "A"

SECTION 2
S3.0



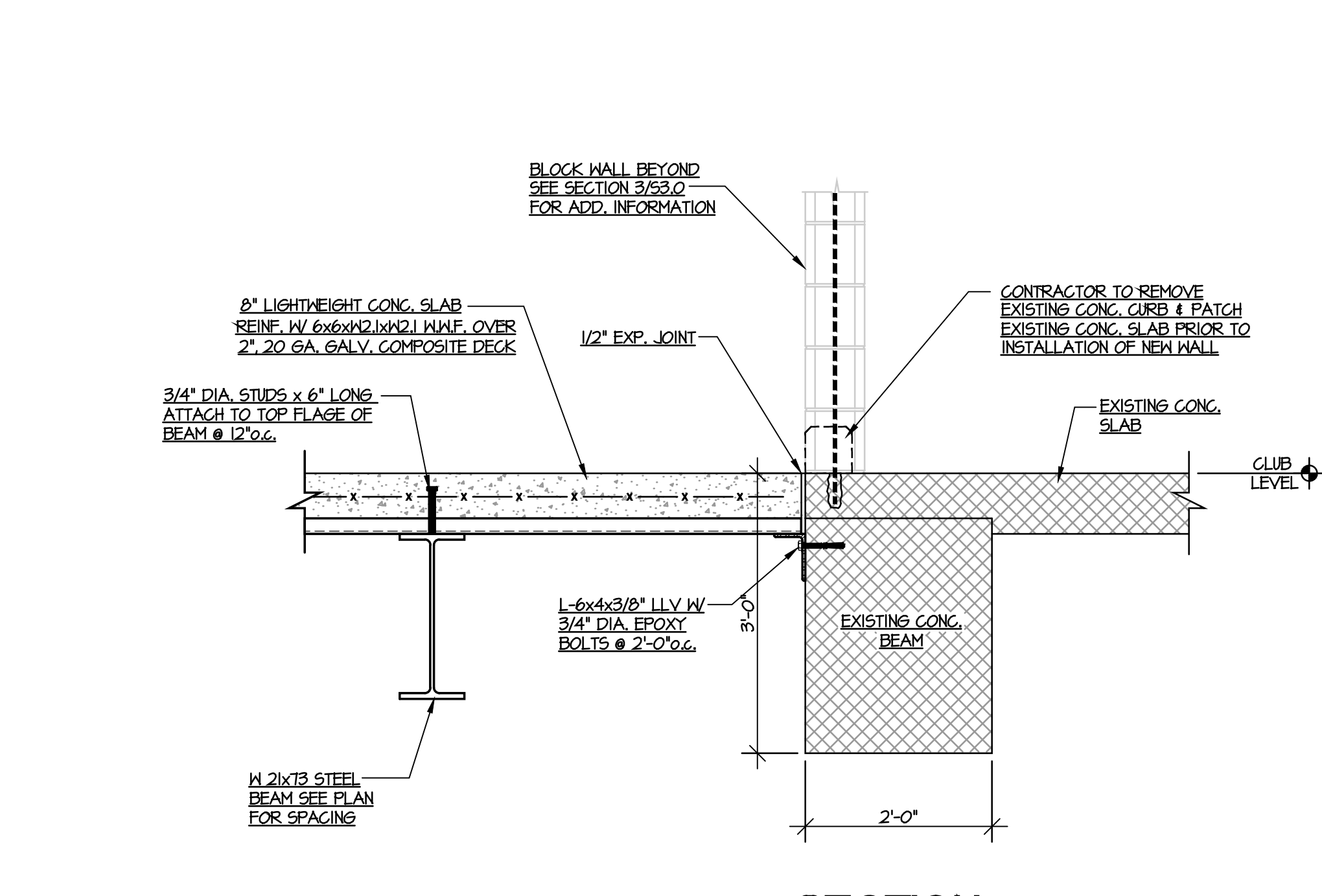
TYPICAL ATTACHMENT OF MASONRY WALL TO NEW CONCRETE FLOOR SLAB

SECTION 3
S3.0



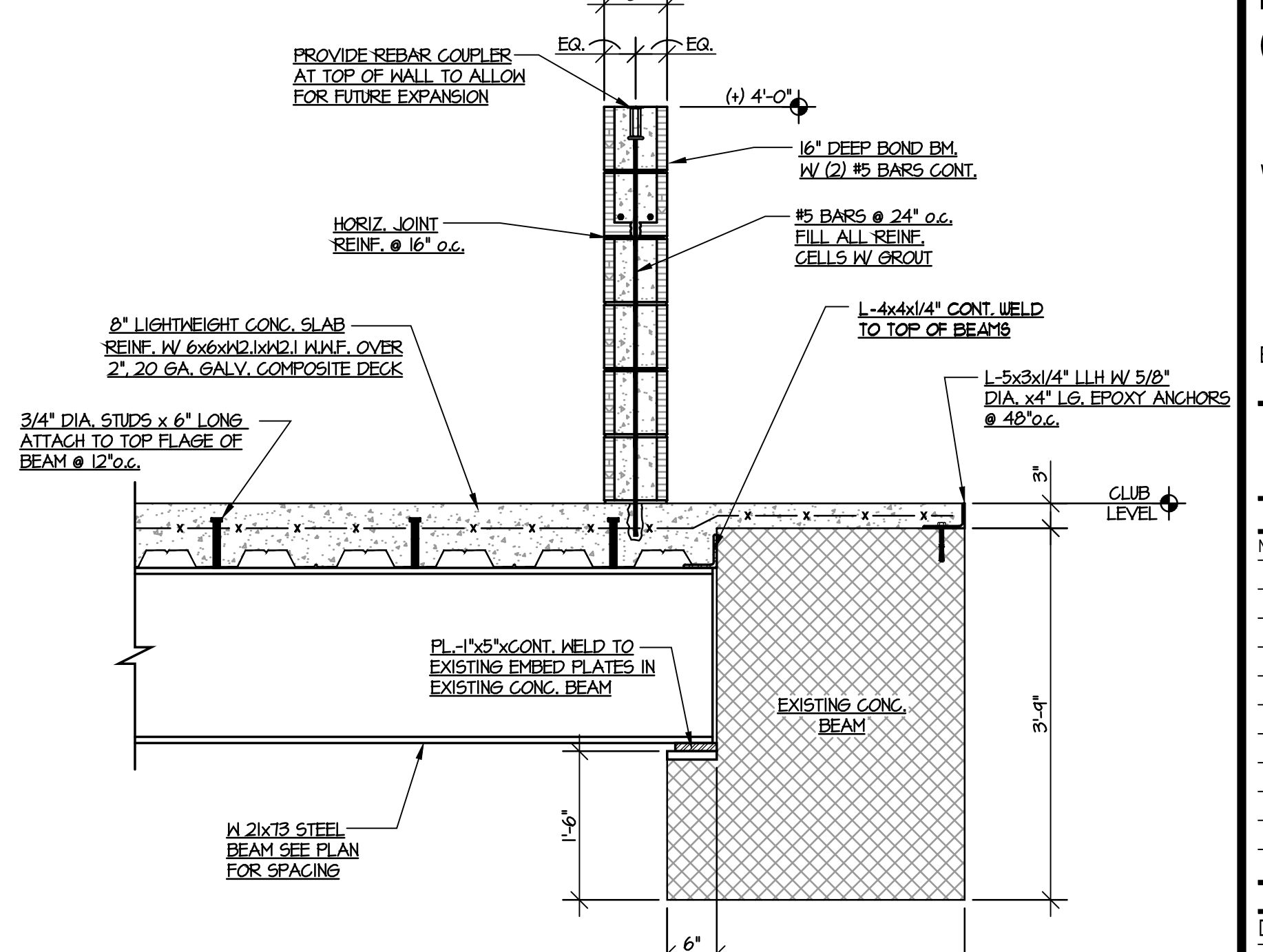
SECTION THRU EXISTING CONCRETE BEAM ALONG BENT (BASE BID ONLY)

SECTION 4
S3.0



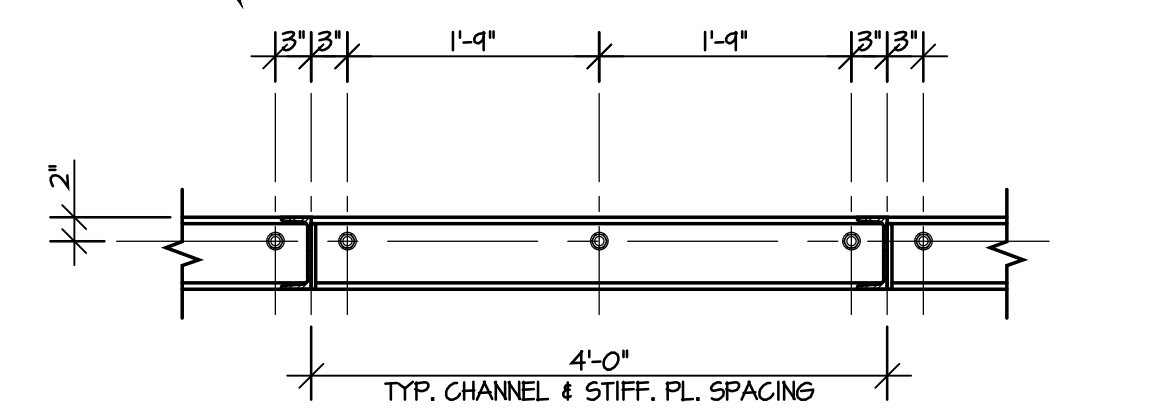
SECTION THRU EXISTING CONCRETE BEAM ALONG BENT

SECTION 5
S3.0



SECTION THRU EXISTING CONCRETE BEAM ALONG COLUMN LINE "B" (ALTERNATE #1 ONLY)

SECTION 6
S3.0



BOLT SPACING FOR CHANNEL TO EXIST. CONC. BEAM ATTACHMENT

DETAIL A
S3.0

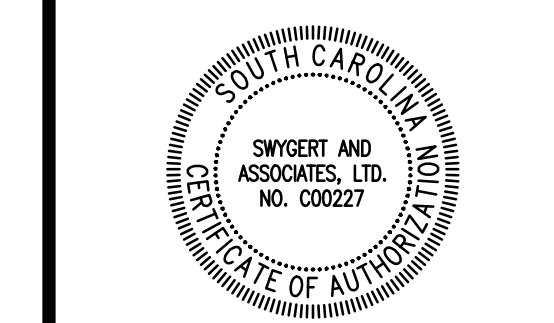
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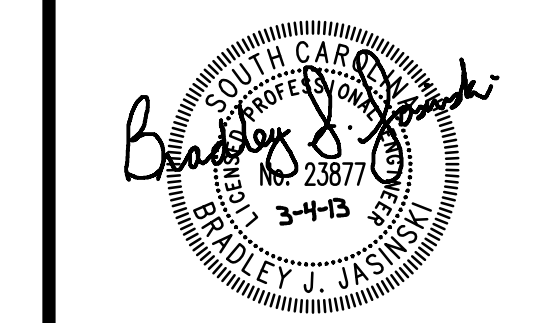
KYZER & TIMMERMAN
STRUCTURAL ENGINEERS

580 Chris Drive, West Columbia S.C. 29169 Ph: 803.791.4511 Fax 803.791.4522

CORPORATE SEAL



A/E SEAL



PROJECT TITLE

UNIVERSITY
OF SOUTH
CAROLINA

WBS WOMEN'S
RESTROOM
CONST. (SE)

WILLIAMS BRICE STADIUM

BID SET

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| Project No. | 12.130.06 |
| Scale | 1/8" = 1'-0" |
| Drawn By | BJJ |
| Checked By | BJJ |
| State Project No. | H27-Z054 |

TITLE

FLOOR PLAN,
DETAIL, NOTES,
SCHEDULES,
AND LEGEND

SHEET NO.

M1.1

| LEGEND | |
|--------|--------------------------|
| SYMBOL | DESCRIPTION |
| Ⓢ | FAN SWITCH BY ELECTRICAL |
| AFF | ABOVE FINISHED FLOOR |

- GENERAL NOTES**
- DO NOT SCALE DRAWINGS. SEE ARCHITECTURAL DRAWINGS AND REFLECTED CEILING PLANS FOR EXACT LOCATIONS OF DOORS, WINDOWS, AIR DISTRIBUTION, ETC.
 - ALL EQUIPMENT LOCATIONS SHALL BE COORDINATED WITH WORK UNDER OTHER DIVISIONS OF THE SPECIFICATIONS TO AVOID INTERFERENCE.
 - PROVIDE FOR ACCESS TO ALL EQUIPMENT REQUIRING CLEANING OR ADJUSTMENT.
 - THIS CONTRACTOR SHALL PROVIDE ALL ITEMS OF MISCELLANEOUS STEEL AS REQUIRED FOR INSTALLATION OF ALL MECHANICAL ITEMS.

ELECTRIC WALL HEATER SCHEDULE

| TAG | MARKET MODEL | KW @ 208V | STYLE | REMARKS |
|--------|--------------|-----------|-------|---------|
| EW-1,2 | 3455T | 5.0 | WALL | 1 |
| EW-3 | 3452T | 2.0 | WALL | 1 |

1. PROVIDE BUILT-IN THERMOSTAT, RECESSED WALL BOX, BUILT-IN CIRCUIT BREAKER, AND HEAVY DUTY STEEL TAMPERPROOF LOUVERED GRILLE.

EXHAUST FAN SCHEDULE

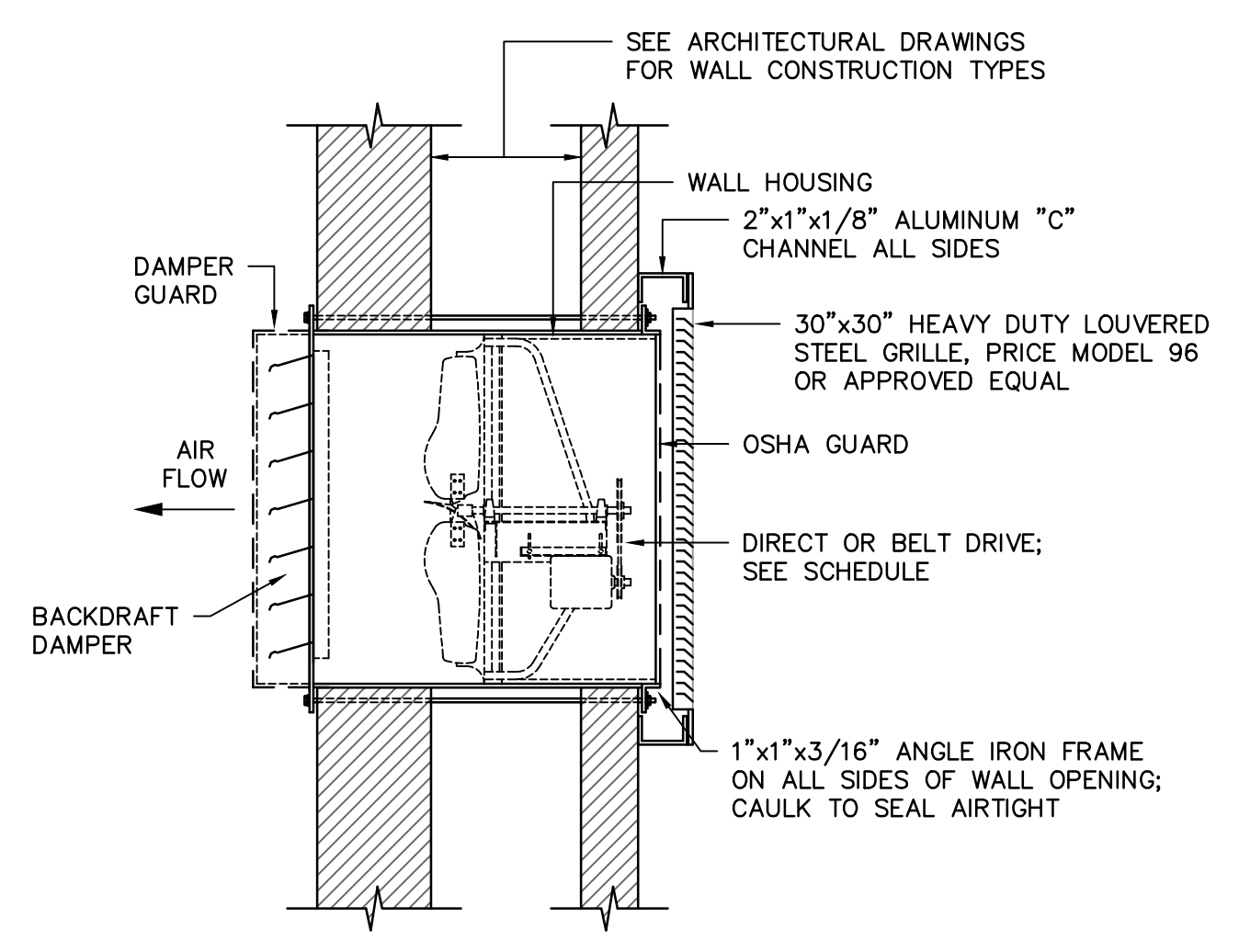
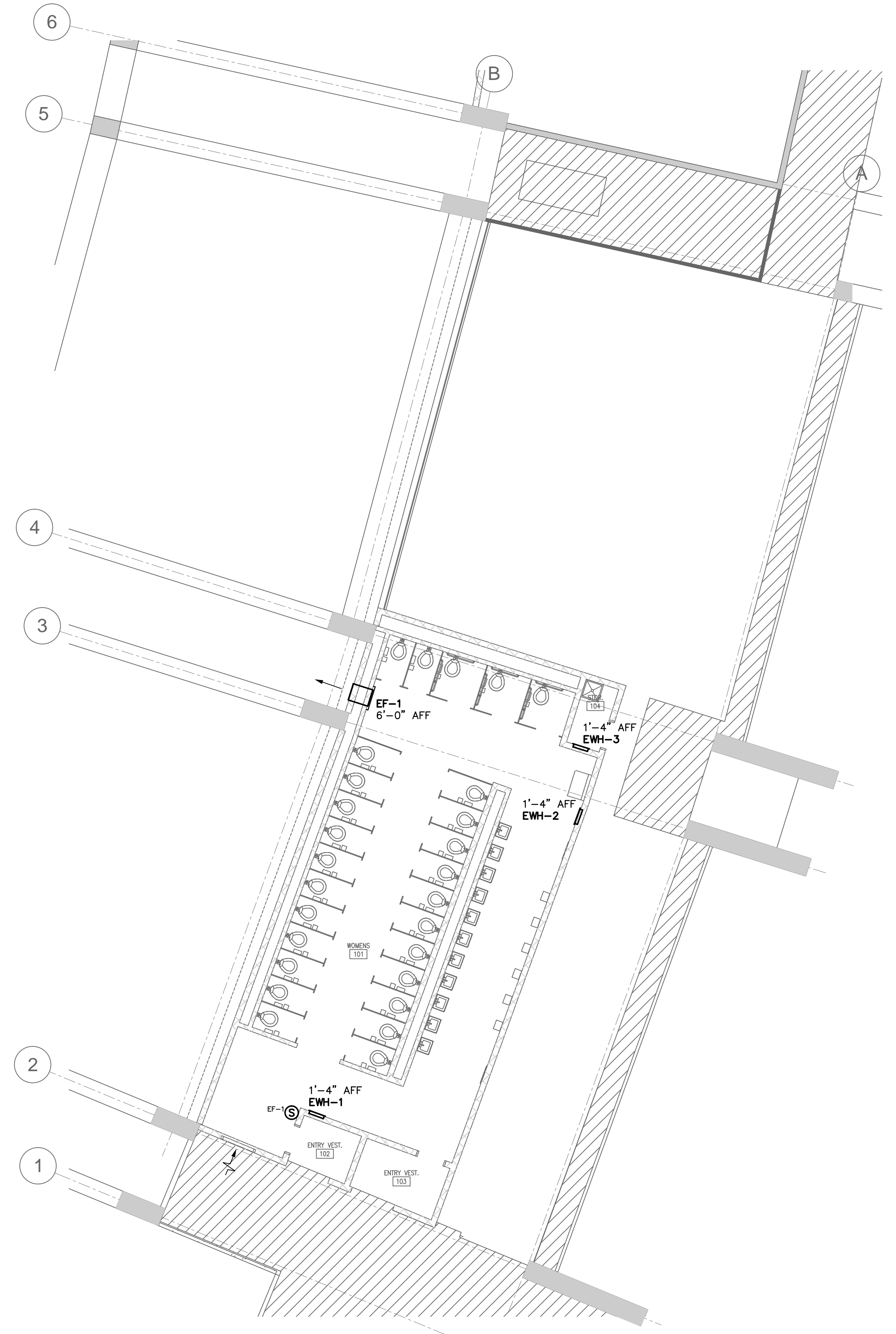
| TAG | GREENHECK MODEL NO. | TYPE | CFM | ESP | MOTOR H.P./W | SONES (MAX.) | REMARKS |
|------|---------------------|--------|------|-------|--------------|--------------|---------|
| EF-1 | SE2-16-417-A4 | SIWALL | 2376 | 0.125 | 1/4 | 19 | 1,2 |

1. PROVIDE SIWALL DIRECT DRIVE EXHAUST FAN WITH SHORT WALL HOUSING, OSHA GUARD, DISCONNECT SWITCH, AND ALUMINUM DAMPER GUARD.
2. INTERLOCK WITH SEPARATE WALL SWITCH, PROVIDED AND WIRED BY ELECTRICAL CONTRACTOR.

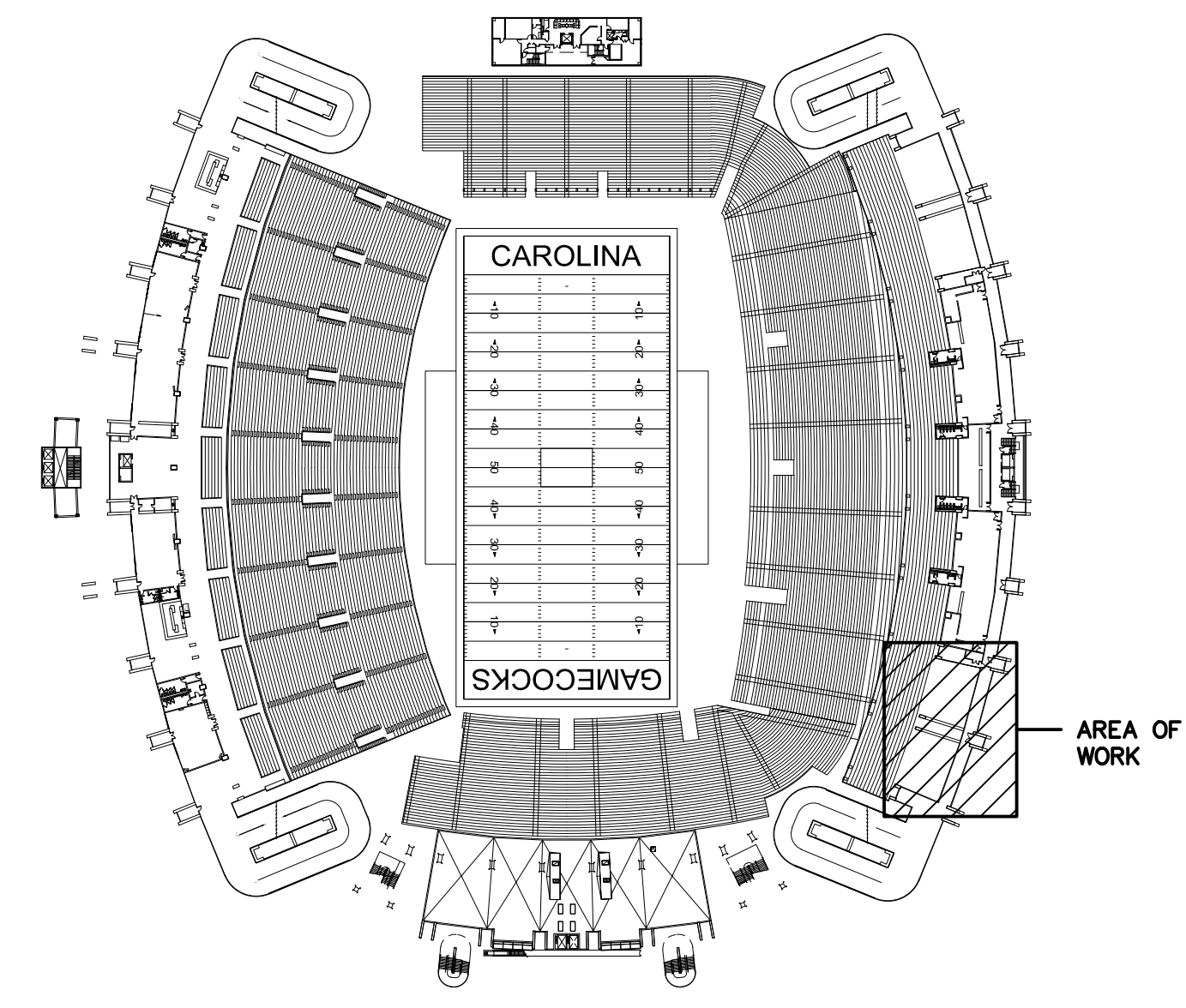
ISOLATION AND SEISMIC SCHEDULE

| OCCUPANCY CATEGORY = III | | SEISMIC DESIGN CATEGORY = D | | |
|--------------------------|--------------------------|-----------------------------|-----------------------------|----------------------|
| EQUIPMENT TAG | COMPONENT I _p | ISOLATION SPECIFICATION | SEISMIC REST. SPECIFICATION | ISOLATION DEFLECTION |
| EF-1 | 1.0 | NONE | NOTE 1 | N/A |

1. ANCHOR BOLTS FOR NON-ISOLATED AND INTERNALLY ISOLATED EQUIPMENT SHALL BE SIZED BY THE SEISMIC RESTRAINT SUPPLIER.



SIDEWALL FAN DETAIL
NO SCALE



KEY PLAN
NO SCALE

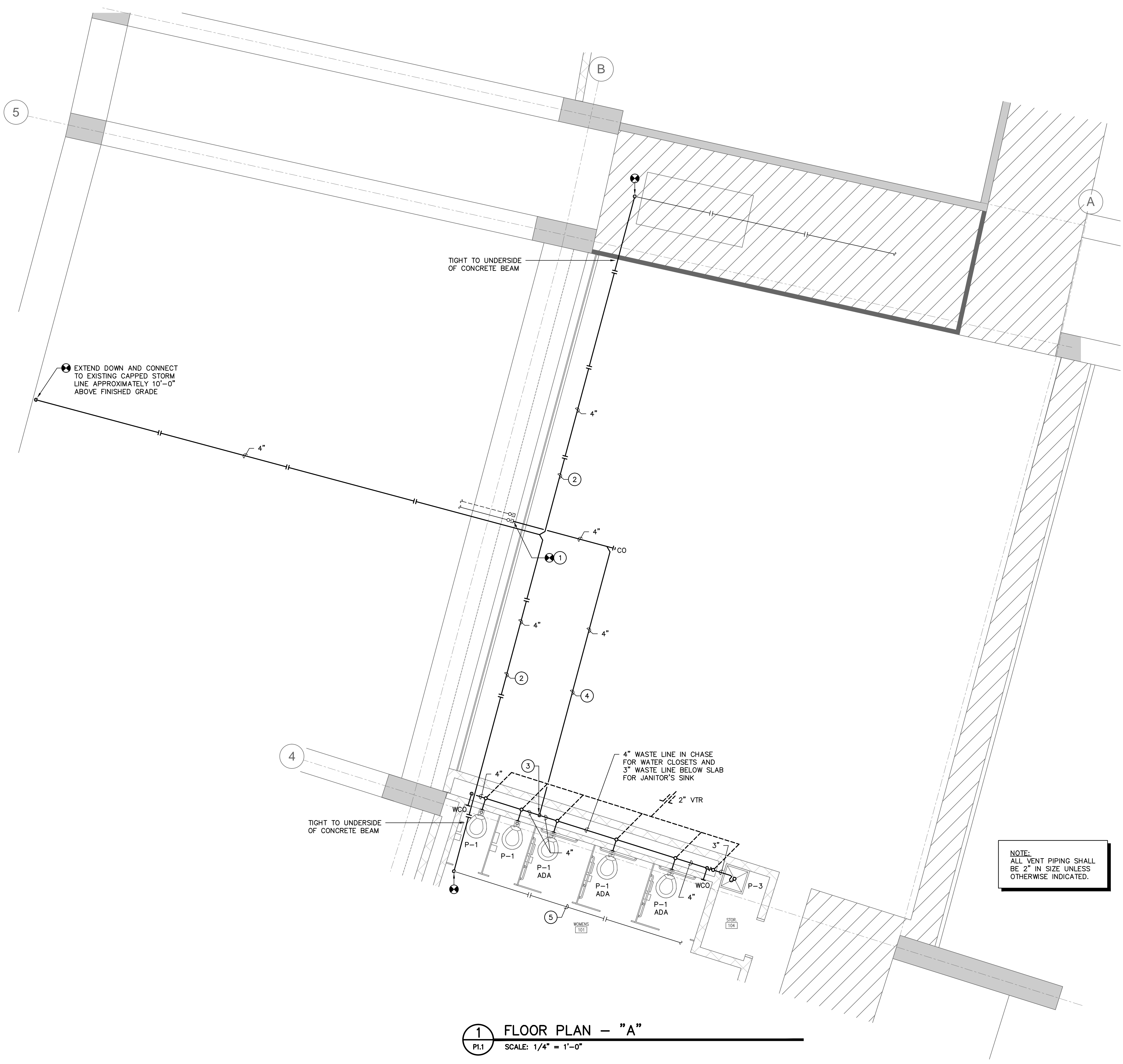
1 FLOOR PLAN
SCALE: 1/8" = 1'-0"

Swygert & Associates
CONSULTING ENGINEERS

DBA Swygert & Assoc., Ltd. Telephone: (803) 791-9300
Post Office Box 11686 Focamide: (803) 791-0830
Columbia, S.C. 29211 mail@swygert-associates.com

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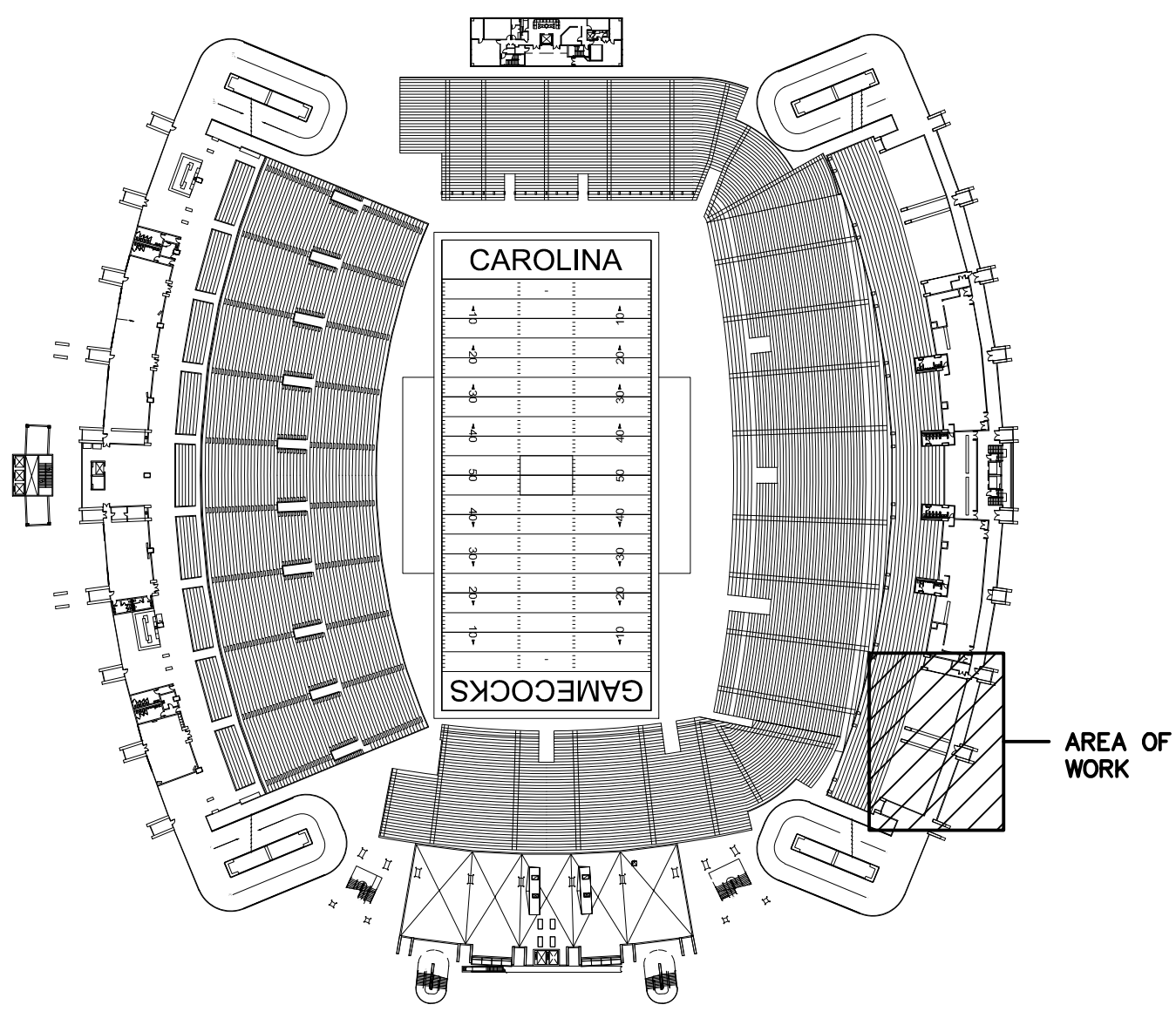
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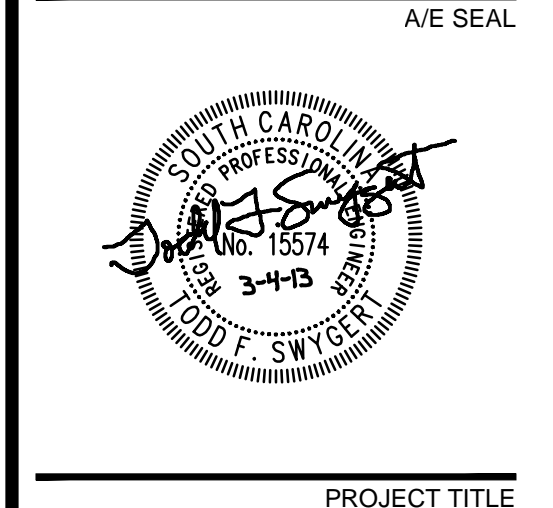
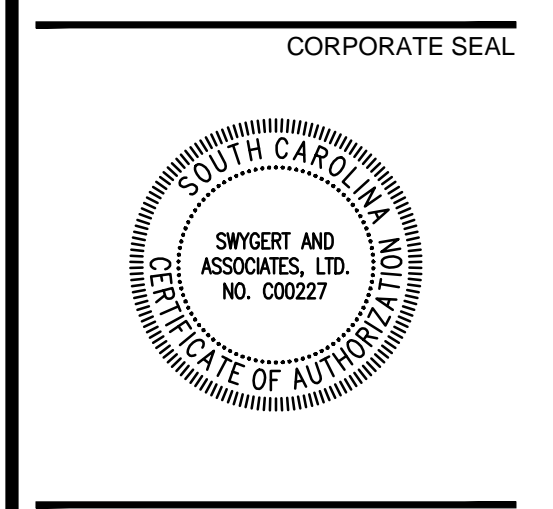
1 FLOOR PLAN - "A"
 P1.1 SCALE: 1/4" = 1'-0"

- ### NOTES TO SHEET
- 1 CONNECT TO EXISTING CAPPED SANITARY SEWER LINE AT THIS APPROXIMATE LOCATION.
 - 2 EXISTING STORM DRAIN LINE (NOT INDICATED) RUNNING NORTH-SOUTH SHALL BE REMOVED. NEW STORM DRAIN LINE INDICATED ON DRAWING SHALL BE ROUTED AS HIGH AS POSSIBLE. *
 - 3 DROP THROUGH SLAB AT THIS APPROXIMATE LOCATION.
 - 4 COORDINATE BEAM OPENINGS BY STRUCTURAL WITH REQUIRED PIPE SLOPE. **
 - 5 EXISTING STORM DRAIN LINE AT THIS APPROXIMATE LOCATION TO REMAIN. REPLACE PIPE SUPPORTS AS REQUIRED DUE TO NEW SLAB CONSTRUCTION.
- * IF ALTERNATE 1 IS NOT TAKEN, EXISTING STORM DRAIN LINES SHALL REMAIN IN PLACE AND NEW WORK IS NOT REQUIRED.
- ** IF ALTERNATE 1 IS NOT TAKEN, NEW SANITARY WASTE LINE IN CHASE SHALL DROP THROUGH SLAB NEAR CONCRETE BEAM AND WASTE PIPING SHALL BE SUPPORTED BY STAND OFF BRACKETS ATTACHED TO CONCRETE BEAM. MAINTAIN PROPER SLOPE.

NOTE:
 ALL VENT PIPING SHALL BE 2" IN SIZE UNLESS OTHERWISE INDICATED.



KEY PLAN
 NO SCALE



PROJECT TITLE

UNIVERSITY OF SOUTH CAROLINA

WBS WOMEN'S RESTROOM CONST. (SE)

WILLIAMS BRICE STADIUM

BID SET

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| REVISIONS | | |
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| SHEET INFORMATION | |
|-------------------|--------------|
| Date | 03.04.13 |
| Project No. | 12.130.06 |
| Scale | 1/8" = 1'-0" |
| Drawn By | DEM |
| Checked By | TFS |
| State Project No. | H27-Z054 |

TITLE

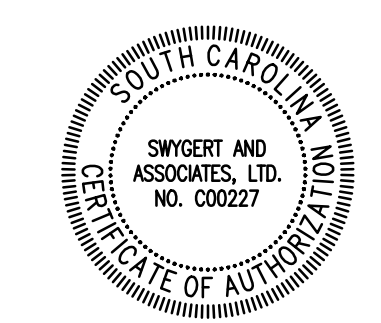
FLOOR PLAN - "A" - WASTE AND VENT PIPING



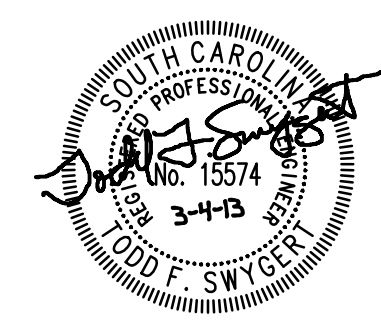
QUACKENBUSH
ARCHITECTS+PLANNERS

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Columbia, SC 29201 F: 803.771.2858

CORPORATE SEAL



A/E SEAL



PROJECT TITLE

UNIVERSITY
OF SOUTH
CAROLINA

WBS WOMEN'S
RESTROOM
CONST. (SE)

WILLIAMS BRICE STADIUM

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SHEET INFORMATION

Date 03.04.13
 Project No. 12.130.06
 Scale 1/8" = 1'-0"
 Drawn By DEM
 Checked By TFS
 State Project No. H27-Z054

TITLE

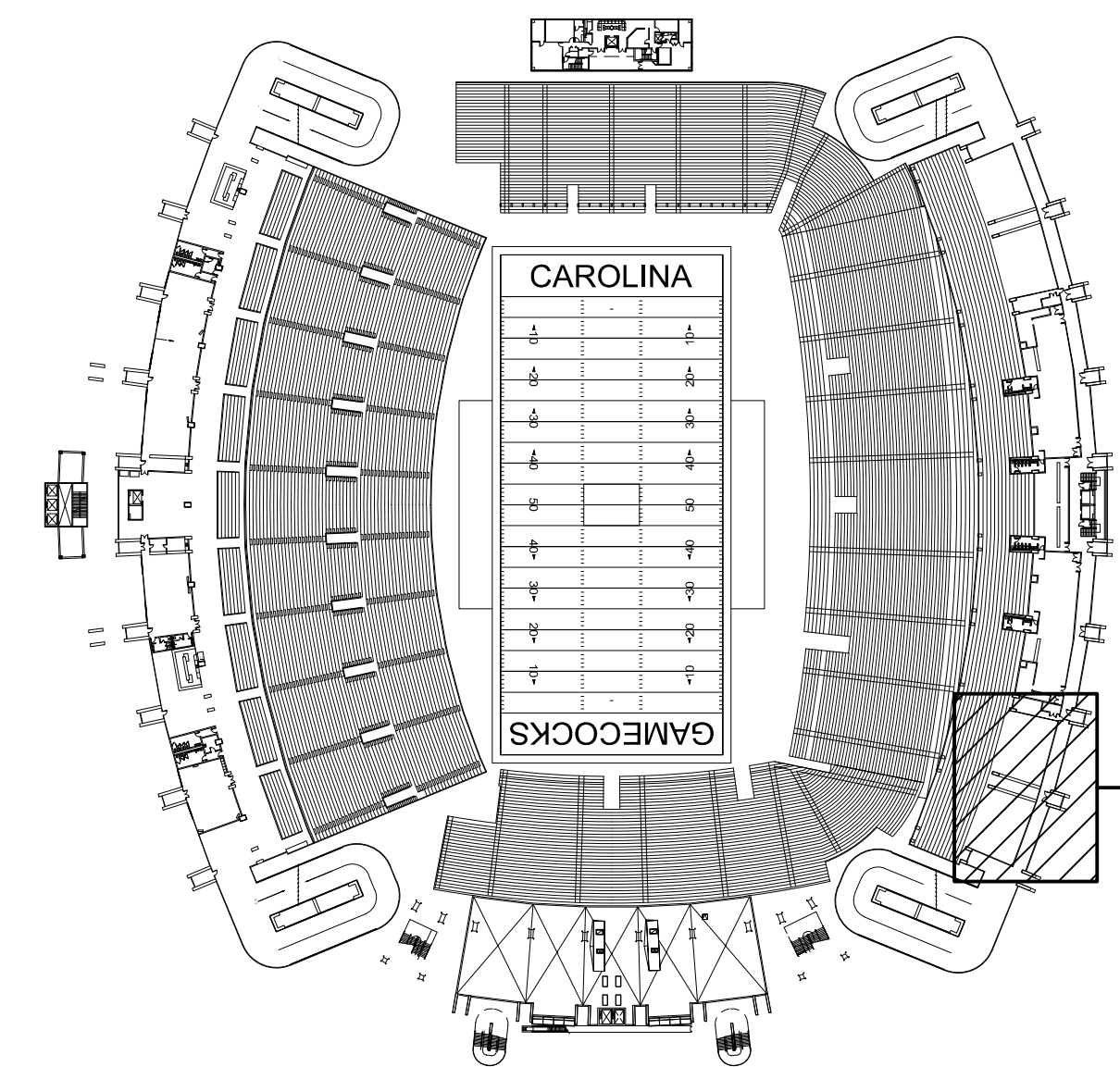
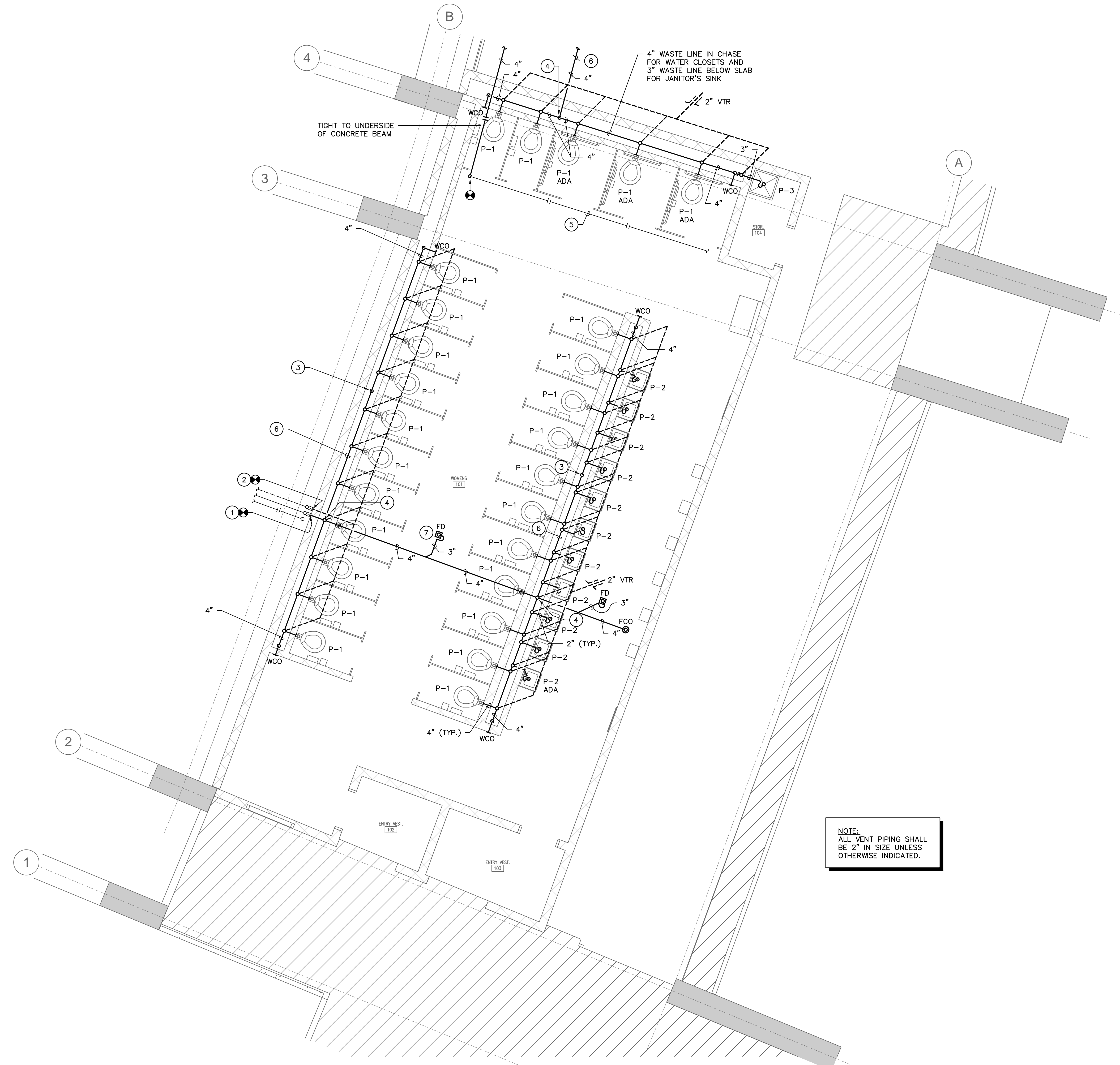
FLOOR PLAN -
"B" - WASTE
AND VENT
PIPING

SHEET NO.

P1.2

NOTES TO SHEET

- 1 CONNECT TO EXISTING CAPPED SANITARY SEWER LINE AT THIS APPROXIMATE LOCATION.
- 2 CONNECT TO EXISTING CAPPED SANITARY VENT LINE AT THIS APPROXIMATE LOCATION.
- 3 DROP DOWN THROUGH SLAB AT THIS APPROXIMATE LOCATION. PIPING FOR ADDITIONAL WATER CLOSETS SHALL STILL BE LOCATED IN CHASE AND DROP AS INDICATED BY NOTE TO SHEET 4. THEREFORE, THERE IS A WASTE LINE IN THE CHASE AND BELOW THE SLAB FROM THIS POINT ON.
- 4 DROP THROUGH SLAB AT THIS APPROXIMATE LOCATION.
- 5 EXISTING STORM DRAIN LINE AT THIS APPROXIMATE LOCATION TO REMAIN. REPLACE PIPE SUPPORTS AS REQUIRED DUE TO NEW SLAB CONSTRUCTION.
- 6 COORDINATE BEAM OPENINGS BY STRUCTURAL WITH REQUIRED PIPE SLOPE. THIS APPLIES ONLY TO THE LINE ALREADY ROUTED THROUGH NEW SLAB.
- 7 LOCATE FLOOR DRAIN AS FAR NORTH AS POSSIBLE TO EDGE OF METAL BEAM BUT LOCATED IN SAME "BAY" AS WASTE LINE.



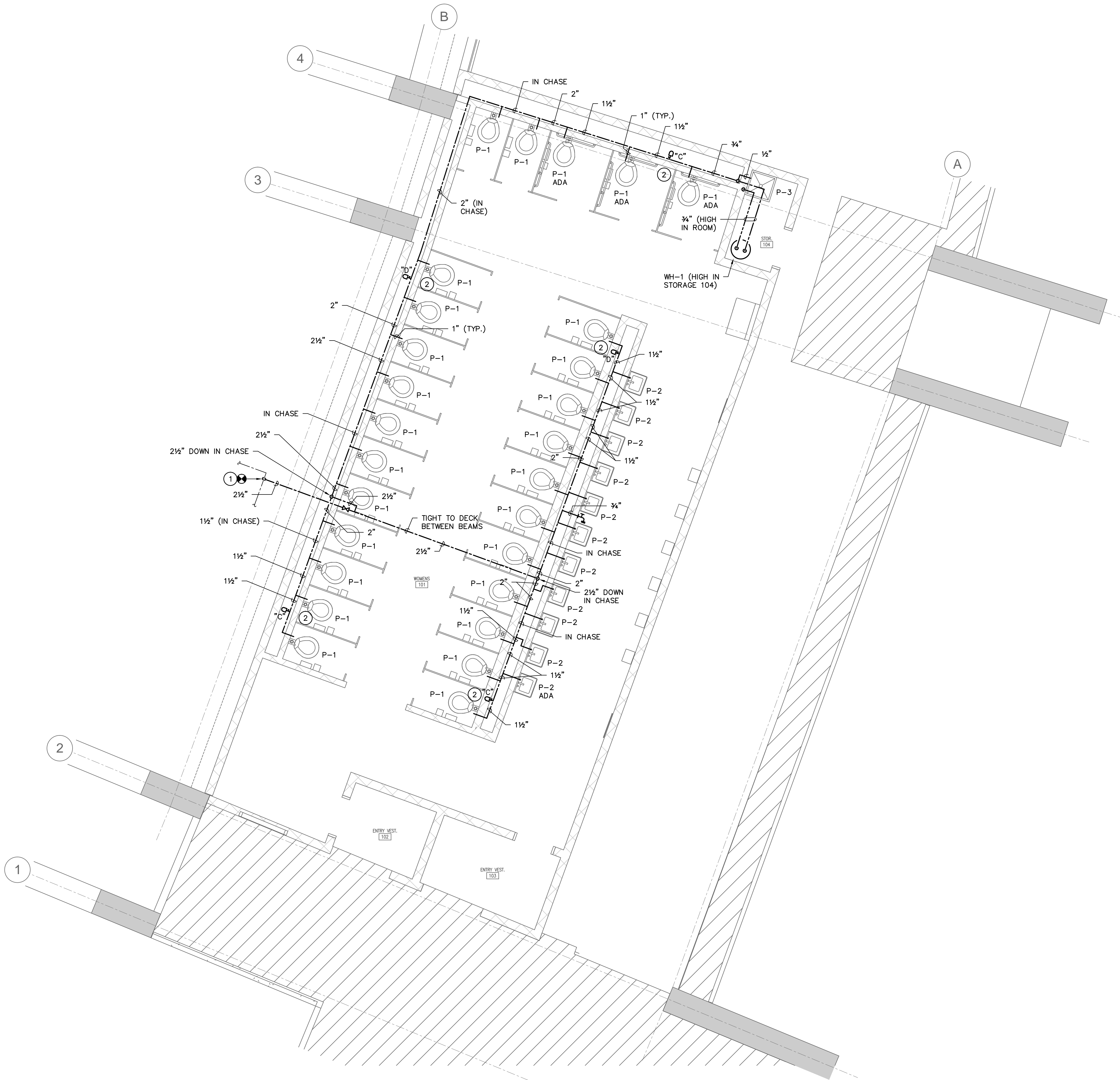
KEY PLAN
NO SCALE

1 FLOOR PLAN - "B"
SCALE: 1/4" = 1'-0"

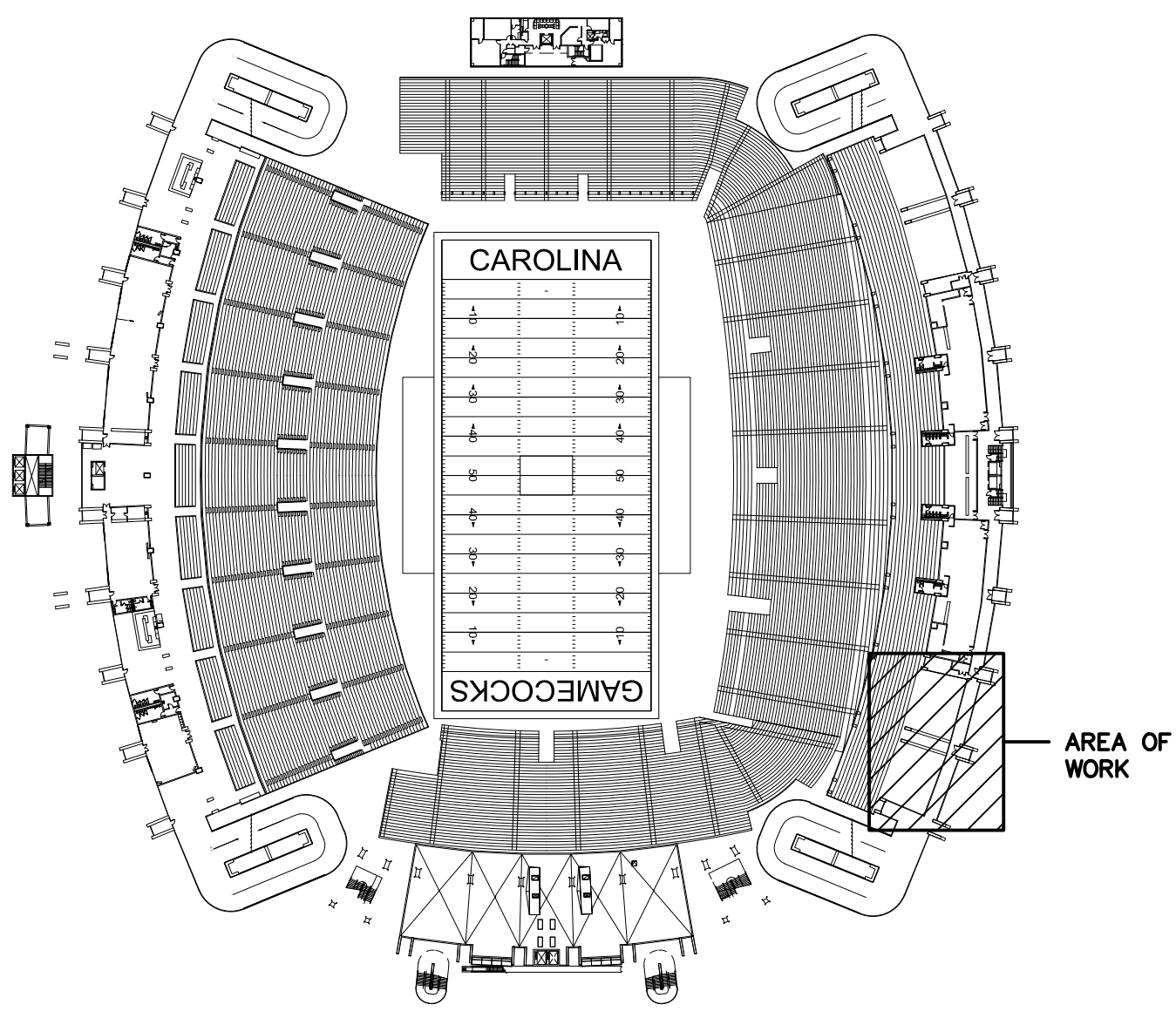
Swygert & Associates
CONSULTING ENGINEERS

DBA Swygert & Assoc., Ltd. Telephone: (803) 791-9300
 Post Office Box 11686 Focamille: (803) 791-0830
 Columbia, S.C. 29211 mail@swygert-associates.com

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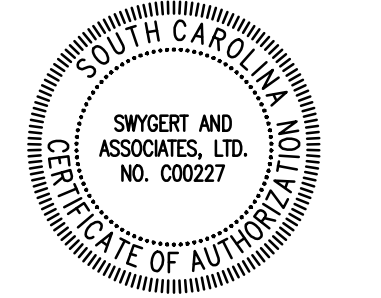
- NOTES TO SHEET**
- 2 1/2" UP AND CONNECT TO EXISTING DOMESTIC COLD WATER LINE AT THIS APPROXIMATE LOCATION.
 - PROVIDE ACCESS PANEL IN WATER CLOSET STALL FOR SHOCK ABSORBER. COORDINATE WITH PARTITIONS AND GRAB BARS. SHOCK ABSORBER SHALL BE LOCATED AT CENTERLINE OF ACCESS PANEL.



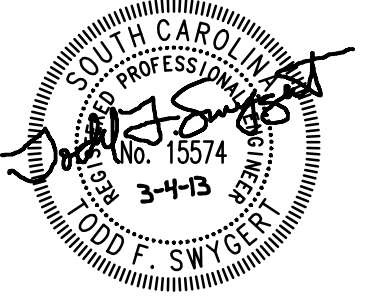
KEY PLAN
NO SCALE

1 FLOOR PLAN
P2.1 SCALE: 1/4" = 1'-0"

CORPORATE SEAL



A/E SEAL



PROJECT TITLE

UNIVERSITY
OF SOUTH
CAROLINA

WBS WOMEN'S
RESTROOM
CONST. (SE)

WILLIAMS BRICE STADIUM

BID SET

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| SHEET INFORMATION | |
|-------------------|--------------|
| Date | 03.04.13 |
| Project No. | 12.130.06 |
| Scale | 1/8" = 1'-0" |
| Drawn By | DEM |
| Checked By | TFS |
| State Project No. | H27-Z054 |

TITLE
**FLOOR PLAN -
SUPPLY PIPING**

Swygert & Associates
CONSULTING ENGINEERS

DBA Swygert & Assoc., Ltd. Telephone: (803) 791-9300
Post Office Box 11686 Focamille: (803) 791-0830
Columbia, S.C. 29211 mail@swygert-associates.com

SHEET NO.

P2.1

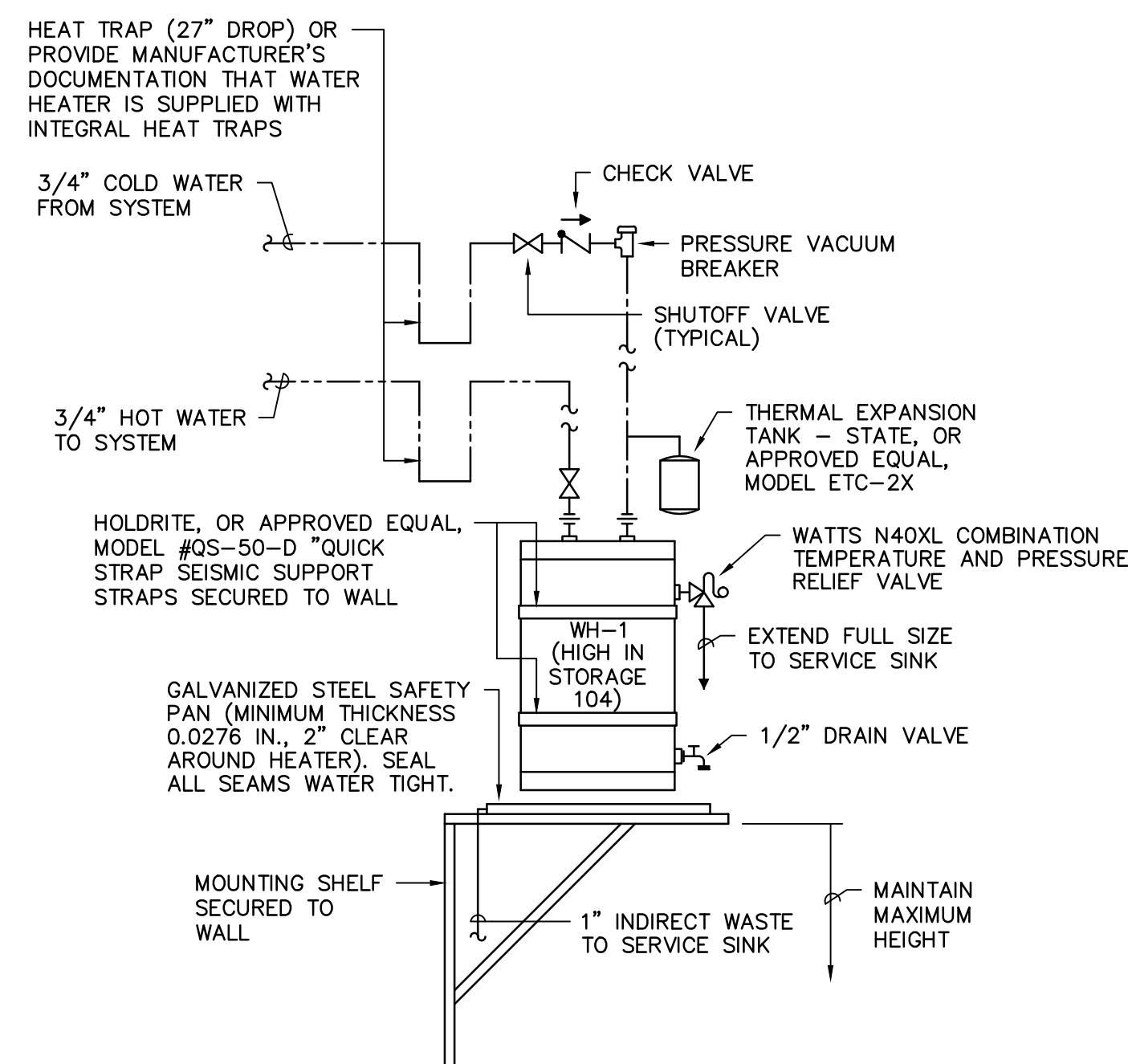
| PLUMBING FIXTURE SCHEDULE | | | | | | | | |
|---------------------------|----------------|----------------|----------|---------------|------------|-------------|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| P. NO. | FIXTURE | MFR. | NAME | MFRS. NO. | SIZE | MIN. SUPPLY | | REMARKS |
| | | | | | | CW | HW | |
| P-1 | WATER CLOSET | KOHLER | KINGSTON | K-4330 | --- | 1" | --- | WITH SLOAN MODEL 111-XL FLUSH VALVE, BENEKE 527 SEAT, CHAIR CARRIER, AND BOLT CAPS. |
| P-2 | LAVATORY | KOHLER | HUDSON | K-2805 | 19"x17" | 3/8" | --- | WITH SPEAKMAN MODEL S-4122 FAUCET, McGUIRE H165 3/8" CAST BRASS SUPPLY WITH STOP, McGUIRE 155A GRID DRAIN, AND McGUIRE 8872 1-1/4" P-TRAP. FIXTURE TO BE MOUNTED PER ADA REQUIREMENTS. 34" MAX. ABOVE FINISHED FLOOR. |
| P-3 | JANITOR'S SINK | STERN WILLIAMS | HILOW | HL-1800-BP | 24"x24" | 1/2" | 1/2" | WITH SPEAKMAN MODEL SC-5811-RCP FAUCET, STAINLESS STEEL GRID DRAIN, AND STAINLESS STEEL BACK PANELS. |
| WH-1 | WATER HEATER | STATE | SELECT | ES6-40-SOMS-K | 38 GALLONS | 3/4" | 3/4" | WITH 1650 KW ELEMENT. SEE ELECTRICAL DRAWINGS FOR ELECTRICAL CHARACTERISTICS. |
| FD | FLOOR DRAIN | ZURN | --- | ZN-415-B | --- | --- | --- | WITH 5" NICKEL BRONZE STRAINER, AND PROSET, OR APPROVED EQUAL, TRAP GUARD. |

GENERAL NOTES

- ALL WORK SHALL BE PERFORMED ACCORDING TO ALL LOCAL, STATE, NATIONAL CODES, AND THE 2006 INTERNATIONAL PLUMBING CODE.
- THIS CONTRACTOR SHALL, PRIOR TO BIDDING, VISIT SITE AND DETERMINE SCOPE OF WORK AND POINTS OF CONNECTION FOR NEW WORK.
- DO NOT SCALE DRAWINGS. SEE ARCHITECTURAL DRAWINGS FOR EXACT DIMENSIONS, FIXTURE LOCATIONS, ETC.
- EXCEPT WHERE PIPE SPACE IS PROVIDED OR UNLESS NOTED OTHERWISE, ALL SUPPLY, WASTE AND VENT RISERS SHALL BE RUN IN WALLS AND PARTITIONS.
- COORDINATE CLOSELY WITH ALL WORK DONE UNDER OTHER DIVISIONS OF THE SPECIFICATIONS TO AVOID INTERFERENCE AND CONFLICT.
- LOCATE ALL INTERIOR HOSE BIBBS 2'-0" ABOVE FINISHED FLOOR.
- ALL HOSE BIBBS AND VALVES WITH THREADED HOSE CONNECTIONS SHALL BE EQUIPPED WITH A WATTS REGULATOR COMPANY, NO. NFB BACK-SIPHONAGE, BACKFLOW PREVENTER.
- ALL PIPING INSULATION SHALL BE RUN CONTINUOUSLY.
- ALL PIPE PENETRATIONS THROUGH FLOORS AND WALLS SHALL BE FLASHED AND COUNTERFLASHED AND SEALED WATERTIGHT.
- EXPOSED WASTE AND WATER PIPING UNDER LAVATORIES MARKED "ADA" SHALL BE INSULATED WITH HANDI-LAV-GUARD KIT MODEL NUMBER 102W AS MANUFACTURED BY TRUEBRO, INC., OR APPROVED EQUAL.
- STORM DRAINAGE PIPING SHALL PITCH A MINIMUM OF 1/8-INCH PER FOOT.

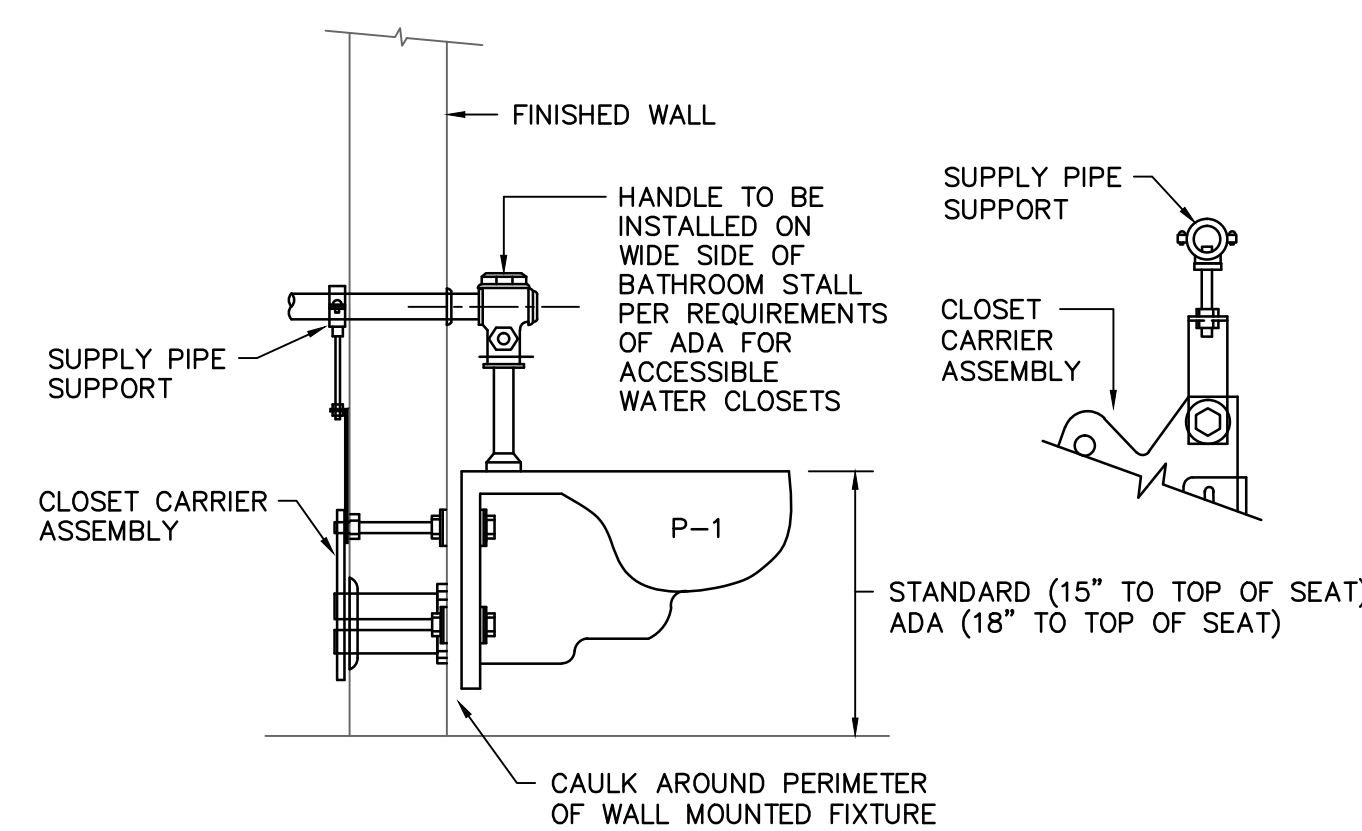
LEGEND

| SYMBOL | DESCRIPTION |
|--------|------------------------------------------------------------------|
| | SANITARY WASTE LINE |
| | SANITARY VENT LINE |
| | DOMESTIC COLD WATER LINE |
| | DOMESTIC HOT WATER LINE |
| | STORM DRAIN LINE |
| | SHUTOFF VALVE |
| | SHOCK ARRESTOR (P.D.I. RATING OF "A") |
| | PIPE TURNS TO, AWAY |
| | FLOOR CLEANOUT |
| | WALL CLEANOUT |
| | CLEANOUT |
| | FLOOR DRAIN |
| | HOSE BIBB |
| ADA | FIXTURE FOR USE ACCORDING TO THE AMERICANS WITH DISABILITIES ACT |
| | CONNECTION POINT OF NEW TO EXISTING |



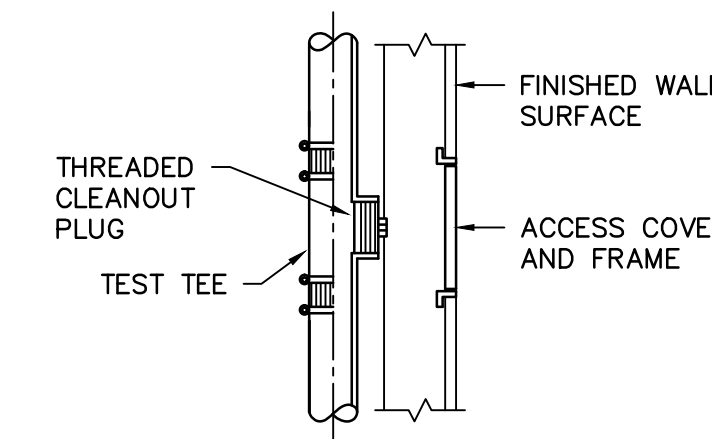
WATER HEATER PIPING DETAIL

NO SCALE



WATER CLOSET SUPPLY DETAIL

NO SCALE



WALL CLEANOUT DETAIL

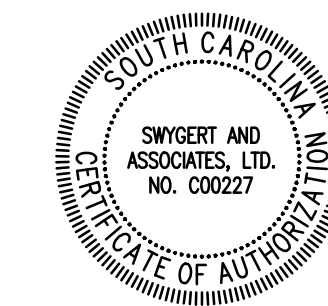
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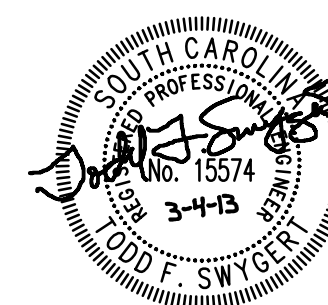
QUACKENBUSH ARCHITECTS+PLANNERS

1217 Hampton Street T: 803.771.2999
Columbia, SC 29201 F: 803.771.2858

CORPORATE SEAL



A/E SEAL



PROJECT TITLE

UNIVERSITY OF SOUTH CAROLINA

WBS WOMEN'S RESTROOM CONST. (SE)

WILLIAMS BRICE STADIUM

BID SET

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SHEET INFORMATION

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| Date | 03.04.13 |
| Project No. | 12.130.06 |
| Scale | 1/4" = 1'-0" |
| Drawn By | DEM |
| Checked By | TFS |
| State Project No. | H27-Z054 |

TITLE

DETAILS, NOTES, SCHEDULE, AND LEGEND

Swygert & Associates
CONSULTING ENGINEERS

DBA Swygert & Assoc., Ltd. Telephone: (803) 791-9300
Post Office Box 11686 Focamille: (803) 791-0830
Columbia, S.C. 29211 mail@swygert-associates.com

SHEET NO.

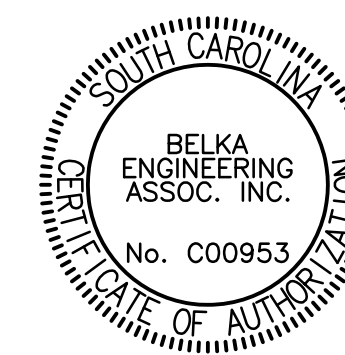
P3.1



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CORPORATE SEAL



A/E SEAL



PROJECT TITLE

UNIVERSITY OF SOUTH CAROLINA

WBS WOMEN'S RESTROOM CONST. (SE)

WILLIAMS BRICE STADIUM

BID SET

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SHEET INFORMATION

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| Date | 03.04.13 |
| Project No. | 12.130.06 |
| Scale | 1/8" = 1'-0" |
| Drawn By | CES |
| Checked By | KLB |
| State Project No. | H27-Z054 |

TITLE

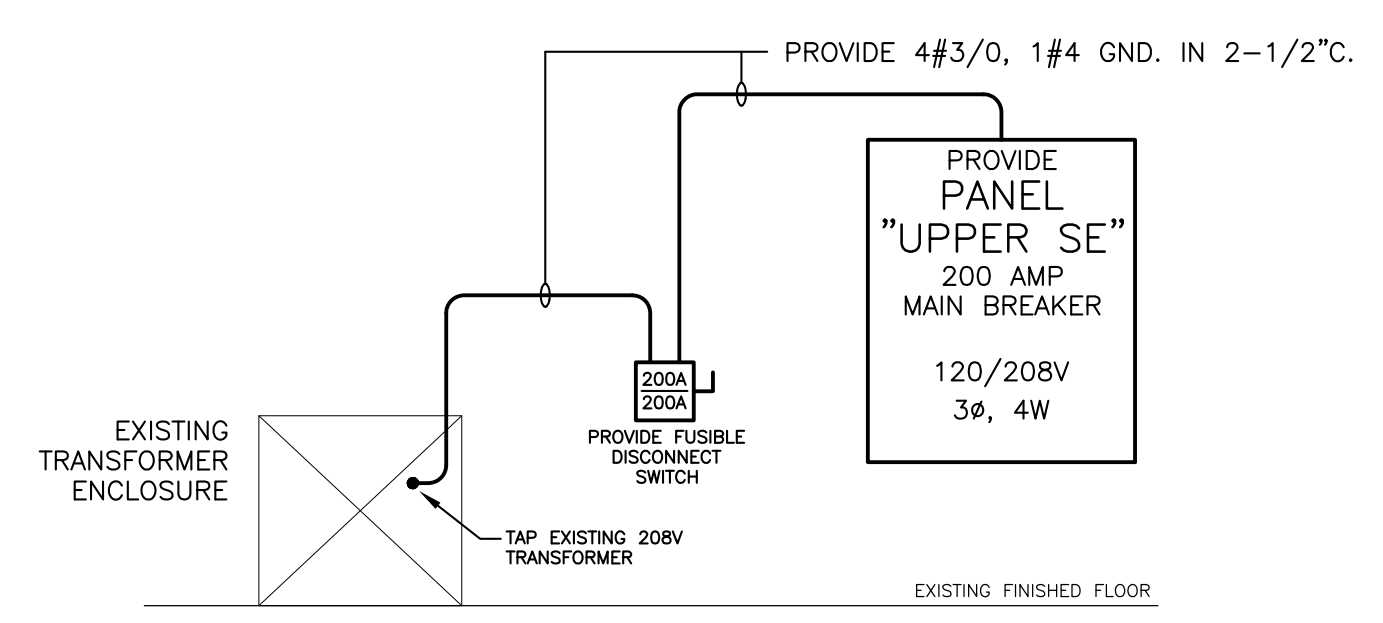
EAST SIDE RESTROOM POWER & LIGHTING PLAN

SHEET NO.

E1.0

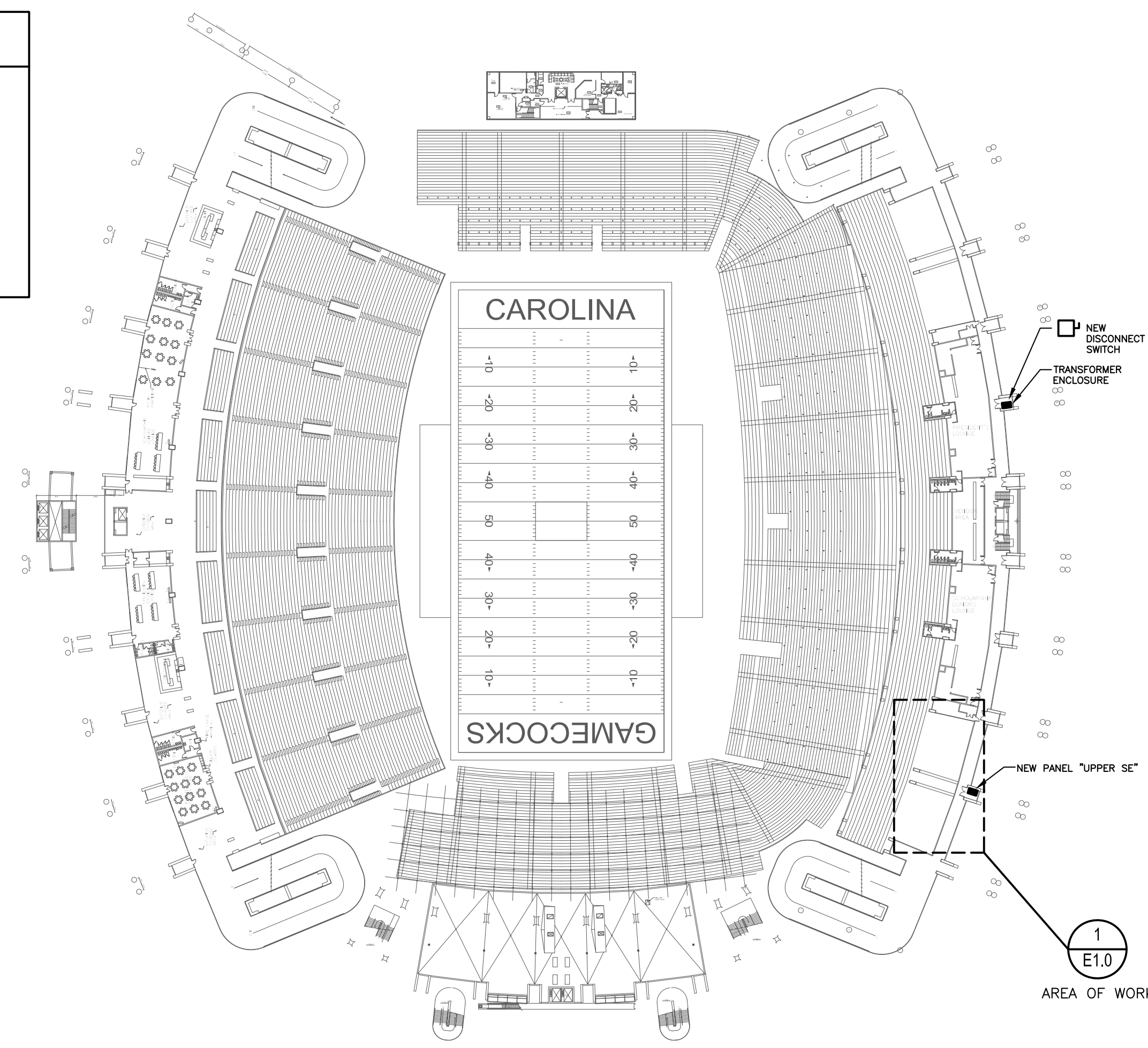
ELECTRICAL NOTES

1. ALL RECEPTACLES, EQUIPMENT, AND LIGHTING SHOWN ON THIS SHEET SHALL BE FED FROM NEW PANEL "UPPER SE" SHOWN ON KEY PLAN UNLESS NOTED OTHERWISE.
2. EXHAUST FAN SWITCH SHALL BE PROVIDED AND CONNECTED TO CONTROL FAN BY ELECTRICAL CONTRACTOR.
3. ALL EXPOSED CONDUIT SHALL BE ROUTED IN A NEAT AND ORDERLY MANNER - TIGHT TO DECK WHEN BETWEEN BEAMS AND TIGHT TO WALLS WHEN CROSSING BEAMS. SEAL ALL CONDUIT PENETRATIONS. REVIEW ROUTING WITH ARCHITECT BEFORE ROUGH-IN.
4. CONCEAL CONDUITS IN WALLS AS MUCH AS POSSIBLE. VERIFY ROUTING OF SURFACE MOUNTED CONDUITS WITH ARCHITECT BEFORE ROUGH-IN.



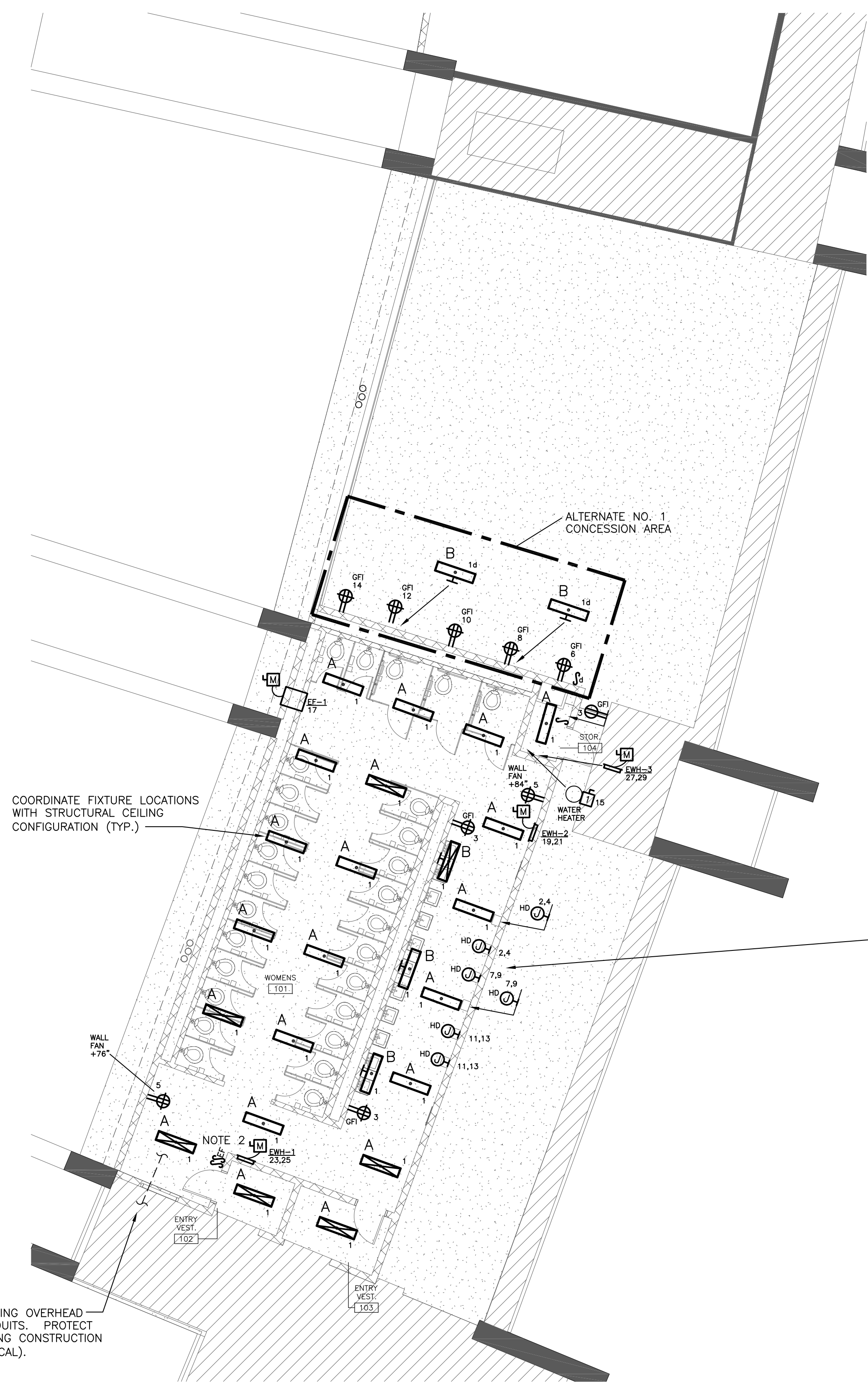
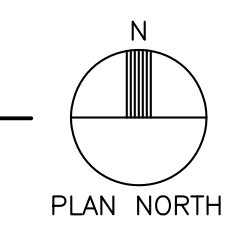
3 POWER SINGLE-LINE DIAGRAM

E1.0 SCALE: NONE



2 KEY PLAN - UPPER LEVEL

E1.0 APPROX. SCALE: 1" = 10' - 0"



PROVIDE THREE (3) NEW 30 AMP, 208V CIRCUITS TO FEED NEW HAND DRYERS. CIRCUITS SHALL BE FED FROM NEW PANEL "UPPER SE" (LOCATION SHOWN ON KEY PLAN). CONCEAL VERTICAL CONDUIT IN WALLS AND MOUNT BOXES AT 44" AFF. EXPOSED CONDUIT RUNS ON CEILING SHALL BE COORDINATED WITH ARCHITECT BEFORE ROUGH-IN. EXPOSED CONDUIT SHALL BE ROUTED IN A NEAT AND ORDERLY MANNER. SEAL ALL CONDUIT PENETRATIONS (TYPICAL OF PROJECT).

| LOADS SERVED | BKR. AMP | LOAD KVA | CKT. NO. | (S / N) | CKT. NO. | LOAD KVA | BKR. AMP | LOADS SERVED | | |
|-------------------------|----------|----------|----------|--------------------------------|----------|----------|----------|---------------------------|--|--|
| LIGHTING - WOMENS | 20 | 1.6 | 1 | | 2 | 3.4 | 30 | HAND DRYERS - WOMENS | | |
| RECEPTACLES - WOMENS | 20 | 0.6 | 3 | | 4 | 3.4 | | | | |
| WALL FANS - WOMENS | 20 | 1.0 | 5 | | 6 | 1.0 | 20 | RECEPTACLES - CONCESSIONS | | |
| ④ HAND DRYERS - WOMENS | 30 | 3.4 | 7 | | 8 | 1.0 | 20 | RECEPTACLES - CONCESSIONS | | |
| ④ HAND DRYERS - WOMENS | 30 | 3.4 | 9 | | 10 | 1.0 | 20 | RECEPTACLES - CONCESSIONS | | |
| ④ HAND DRYERS - WOMENS | 30 | 3.4 | 11 | | 12 | 1.0 | 20 | RECEPTACLES - CONCESSIONS | | |
| ④ HAND DRYERS - WOMENS | 30 | 3.4 | 13 | | 14 | 1.0 | 20 | RECEPTACLES - CONCESSIONS | | |
| WATER HEATER - WOMENS | 20 | 1.7 | 15 | | 16 | - | 20 | SPARE | | |
| EF-1 | 20 | 0.7 | 17 | | 18 | - | 20 | SPARE | | |
| ⑦ EWH-2 | 40 | 2.5 | 19 | | 20 | - | 20 | SPARE | | |
| ⑦ EWH-2 | 40 | 2.5 | 21 | | 22 | - | 20 | SPARE | | |
| ⑦ EWH-1 | 40 | 2.5 | 23 | | 24 | - | 20 | SPARE | | |
| ⑦ EWH-1 | 40 | 2.5 | 25 | | 26 | - | 20 | SPARE | | |
| ⑦ EWH-3 | 20 | 1.0 | 27 | | 28 | - | 20 | SPARE | | |
| ⑦ EWH-3 | 20 | 1.0 | 29 | | 30 | - | 20 | SPARE | | |
| SPARE | 20 | - | 31 | | 32 | - | 20 | SPARE | | |
| SPARE | 20 | - | 33 | | 34 | - | 20 | SPARE | | |
| SPARE | 20 | - | 35 | | 36 | - | 20 | SPARE | | |
| SPARE | 20 | - | 37 | | 38 | - | 20 | SPARE | | |
| SPARE | 20 | - | 39 | | 40 | - | 20 | SPARE | | |
| SPARE | 20 | - | 41 | | 42 | - | 20 | SPARE | | |
| CONNECTED LOADS (KVA) | | | | ④ = 2#10, 1#10 GND. IN 3/4" C. | | | | | | |
| ④A 18.8 ④B 13.6 ④C 10.6 | | | | ⑦ = 2#8, 1#10 GND. IN 3/4" C. | | | | | | |
| TOTAL LOADS (KVA) | | | | | | | | | | |
| 43.0 | | | | | | | | | | |

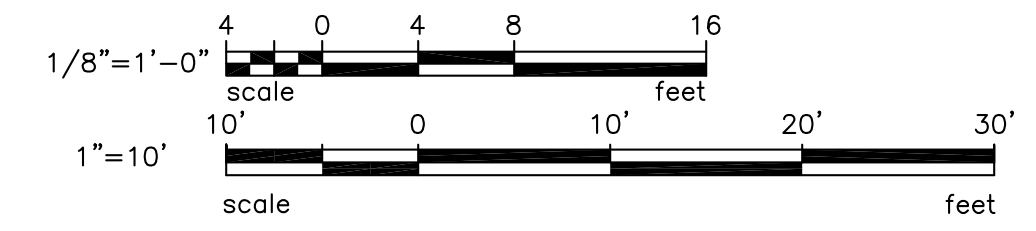
NEW PANEL "UPPER SE"
120/208V, 3 PH., 4W, 60 HZ
200 AMP MAIN BREAKER
SURFACE MOUNTED
22,000 A.I.C. SYM.

ALL OTHER CIRCUITS SHALL BE 2#12, 1#12 GND., 3/4" C., UNLESS NOTED.

ELECTRICAL SYMBOL LEGEND

- A NEW 4' FLUORESCENT VANDAL RESISTANT LIGHTING FIXTURE (KENALL# MLHAB 48 R MW CP 232 IS 1 DV 9500 PM OR PRIOR APPROVED EQUAL), STEM MOUNTED 7'8" ABOVE FINISHED FLOOR (BOTTOM OF FIXTURE)
 - B SAME FIXTURE "A" ABOVE EXCEPT WALL MOUNTED 84" ABOVE FINISHED FLOOR (CENTER OF FIXTURE)
 - EMERGENCY FIXTURE - PROVIDE 1100 LUMEN BATTERY PACK (KENALL# PEL OR APPROVED EQUAL)
 - S SINGLE POLE SWITCH (20 AMP COMMERCIAL SPEC GRADE), MOUNTED 48" ABOVE FINISHED FLOOR (TOP OF BOX)
 - HD 2.4 JUNCTION BOX FOR HAND DRYER, MOUNTED 44" ABOVE FINISHED FLOOR (COORDINATE EXACT LOCATION AND HEIGHT WITH ARCHITECT BEFORE ROUGH-IN)(NUMBER DENOTES CIRCUIT)
 - 20 AMP DUPLX, GROUND FAULT INTERRUPTER TYPE RECEPTACLE (COMMERCIAL SPEC GRADE), MOUNTED 18" ABOVE FINISHED FLOOR UNLESS NOTED OTHERWISE.
 - 20 AMP DUPLX, MOUNTED 42" ABOVE FINISHED FLOOR UNLESS NOTED OTHERWISE.
 - 30 AMP, 2-POLE 208V GENERAL DUTY TYPE DISCONNECT SWITCH, NEMA 1 ENCLOSURE (NON-FUSIBLE)
 - MEANS OF DISCONNECTION - FURNISHED WITH MECHANICAL EQUIPMENT
- NOTES:
PROVIDE LAMPS (PHILIPS# F32T8/741/ALTO OR APPROVED EQUAL).
WIRING DEVICES SHALL BE HUBBELL COMMERCIAL SPEC GRADE OR APPROVED EQUAL.
PROVIDE #12 THHN/THWN CONDUCTORS INCLUDING INSULATED GROUND CONDUCTOR IN 3/4" EMT CONDUIT, UNLESS NOTED OTHERWISE IN PANEL SCHEDULE

FOR INFORMATION ONLY - ALL ELECTRICAL WORK TO BE BY USC



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

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3/12/2013 8:19 AM \\J200\Work\Shared Projects\021207 - USC - WBS - Restroom BR May 10 12 2013 10.dwg