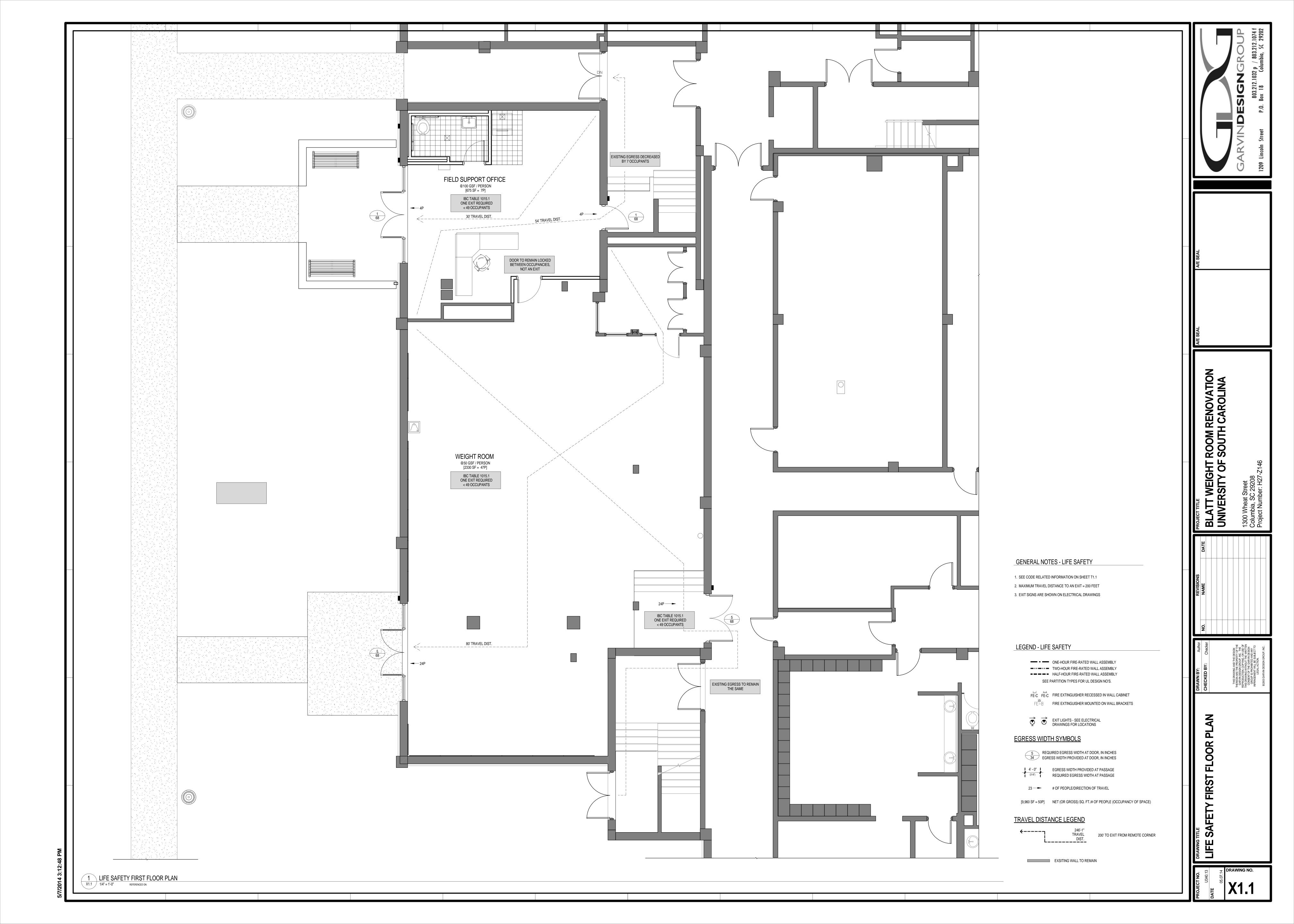
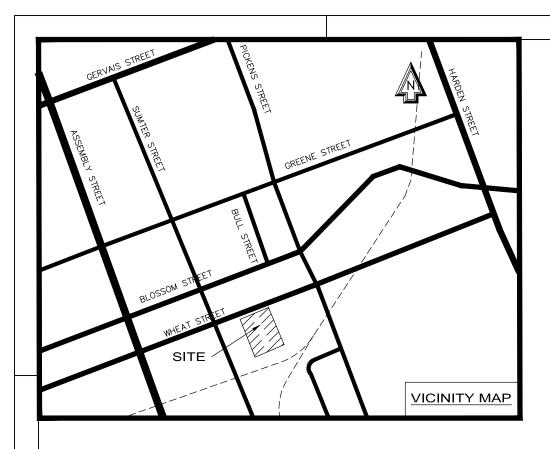
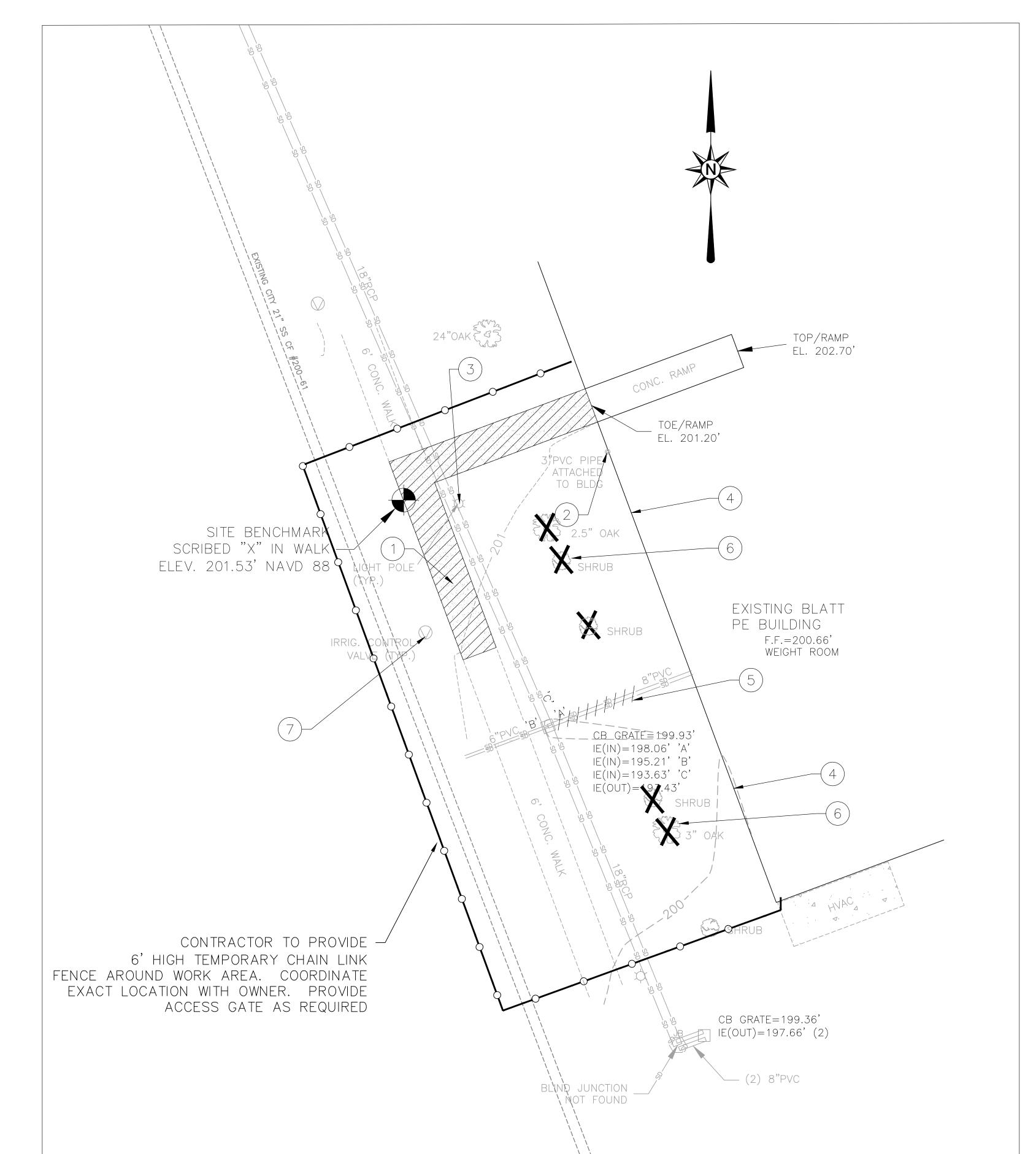
BLATT PHYSICAL EDUCATION CENTER BID DOCUMENTS UNIVERSITY OF SOUTH CAROLINA BLATT WEIGHT ROOM RENOVATION 07 MAY 2014 1300 WHEAT STREET VOLUME 1 OF 1 COLUMBIA, SOUTH CAROLINA 29208 Project Number H27-Z146/Architect's Project Number: U340.13 **LOCATION MAP** MANUVERING CLEARNACES INDEX TO DRAWINGS **CODE INFORMATION** TITLE SHEET TITLE SHEET AND KEY PLAN LIFE SAFETY FIRST FLOOR PLAN **EXISTING CONDITIONS - SITE DEMO PLAN** SITE LAYOUT PLAN GRADING AND DRAINAGE PLAN SEDIMENT AND EROSION CONTROL PLAN LANDSCAPE PLAN HINGE SIDE APPROACHES 2. INTERNATIONAL EXISTING BUILDING CODE (IEBC), 2012 EDITION FIRST FLOOR DEMOLITION PLAN 3. INTERNATIONAL FIRE CODE (IFC), 2012 EDITION FIRST FLOOR DEMOLITION REFLECTED CEILING PLAN STATE OF FIRST FLOOR PLAN 8. NATIONAL ELECTRICAL CODE (NEC) [NFPA-70], 2011 EDITION SOUTH CAROLINA 9. NATIONAL ELECTRICAL SAFETY CODE, ANSI-C2-2007 EDITION FIRST FLOOR REFLECTED CEILING PLAN 10. STATE FIRE MARSHAL RULES, REGULATIONS, AND POLICIES - LATEST EDITION PARTITION TYPES, ENLARGED PLANS & PLAN DETAILS 1. ASHRAE/IESNA 90.1-2007, ENERGY EFFICIENT DESIGN OF NEW BUILDINGS 12. ICC/ANSI - A117.1 - 2009, ACCESSIBLE AND USABLE BUILDINGS AND FACILITIES DOORS SCHEDULES, DOOR TYPES, AND STOREFRONT A. TYPE OF EXISTING BUILDING OCCUPANCY: ASSEMBLY GROUP: A-3 FRONT APPROACHES B. ADJACENT EXISTING OCCUPANCY: <u>ASSEMBLY</u> GROUP: <u>A-4</u> NOTES AND TYPICAL DETAILS C. RENOVATED OCCUPANCY: <u>BUSINESS</u> GROUP: <u>B</u> (FIELD SUPPORT OFFICE) FOUNDATION AND ROOF FRAMING PLANS MATERIAL DESIGNATIONS ASSEMBLY GROUP: A-3 WEIGHT ROOM 2. TYPE OF CONSTRUCTION: EXISTING CONSTRUCTION AT ALL DOORS. CONTRACTOR SHALL REVIEW FIELD LAYOU
AND CONFIRM THAT ALL OF THE APPROPRIATE CLEARANCE FIRST FLOOR PLAN, DETAILS, NOTES, SCHEDULES, AND LEGEND A. ASSUMED CONSTRUCTION CLASSIFICATION: TYPE IA COMPACTED EARTH WOOD (ROUGH) 3. SPRINKLERS: X NO YES THE ARCHITECT'S ATTENTION SHALL BE AT THE FIRST FLOOR PLANS POROUS FILL (STONE OR GRAVEL) WOOD (FINISHED) DETAILS, NOTES, SCHEDULE, AND LEGEND 5. HIGH RISE: X NO YES ELECTRICAL DEMOLITION PLAN 6. GENERAL BUILDING DESIGN, ALLOWABLE AREA, AND HEIGHT: **ELECTRICAL RENOVATION PLAN** 3305 GSF WITHIN EXISTING FIRST FLOOR SPACE OF EXISTING 273,000 SF, 3-STORY STRUCTURE. CONCRETE MASONRY UNIT (CMU) BATT INSULATION PANELBOARD SCHEDULE & DETAILS LATCH SIDE APPROACHES GYPSUM BOARD EGRESS OCCUPANCY CALCULATIONS EXISTING EGRESS OCCUPANCY CALCULATIONS GRESS OCCUPANCY CALCULATIONS SAND, PLASTER, CEMENT, GROUT RIGID INSULATION OCCUPANCY FLOOR AREA IN OCCUPANCY TYPE (PER SPACE) FLOOR AREA SF/OCCUPANT OCCUPANT LOAD FLOOR AREA SF/OCCUPANT OCCUPANT LOAD BUSINESS (FIELD SUPPORT OFFICE) 100 GROOS EXERCISE ROOM (WEGITH ROOM) 2330 NEW TOTAL OCCUPANT LOAD EXISTING TOTAL OCCUPANT LOAD ABBREVIATIONS ARCHITECTURAL SYMBOLS (BEFORE RENOVATION) FIRE RESISTANCE RATING OF BUILDING ELEMENTS - EXISTING BUILDING ASSUMED TYPE IB RATING AS RATING AS TESTING AGENCY & REQUIRED DESIGNED DESIGN NUMBER (IN HOURS) DESIGN NUMBER (UL, FM, ETC.) ALUMINUM ALTERNATE WALL SECTION REFERENCE ARCH ARCHITECTURAL PRIMARY STRUCTURAL FRAME BLKG (PER IBC TABLE 601) **BUILT- UP ROOF** - WALL SECTION / DETAIL NUMBER CENTERLINE WHERE WALL SECTION / DETAIL IS SHOWN BEARING WALLS, EXTERIOR - LOCATION OF DETAIL CONTROL JOINT CUT (AS SHOWN) (PER IBC TABLE 601) TOP = TOP HALF OF WALL FOR PARTICULAR LEVEL - WHERE DETAIL IS SHOWN BEARING WALLS, INTERIOR CONCRETE BOT = BOTTOM HALF OF WALL FOR PARTICULAR LEVEL CMU CONT CONCRETE MASONRY UNIT CONTINUOUS NONBEARING WALLS & PARTITIONS, EXISTING FIRE SEPARATION DISTANCE ≥ 30' = 0 PLAN DETAIL REFERENCE DOWN SPOUT - WALL SECTION / DETAIL NUMBER NONBEARING WALLS & PARTITIONS, EXTERIOR - WHERE WALL SECTION / DETAIL IS SHOWN **EXISTING** (PER IBC TABLE 601) FLOOR CONSTRUCTION AND EXPANSION JOINT SECONDARY MEMBERS ELECTRICAL - DETAIL NUMBER SIM = SIMILAR CONDITION ELEVATION OH = OPPOSITE HAND CONDITION - WHERE DETAIL IS SHOWN ELEV **ELEVATOR** OPP = OPPOSITE HAND CONDITION ROOF CONSTRUCTION AND EQUIP FQUIPMENT ROT = ROTATED CONDITION ELECTRIC WATER COOLER WALL SECTION / DETAIL SECTION FIRE WALLS FIRE RATED WALL SYMBOLS FACE OF FINISH (PER IBC SECTION 706) FACE OF STUD — WALL SECTION / DETAIL NUMBER FIRE BARRIERS FIRE RETARDEN - WHERE WALL SECTION / DETAIL IS SHOWN ONE-HOUR FIRE-RATED WALL ASSEMBLY FIELD VERIFY GAUGE SHAFT ENCLOSURES GYPSUM BOARD ROOM TAG SYMBOL TWO-HOUR FIRE-RATED WALL ASSEMBLY HOLLOW METAL CORRIDOR FIRE-RESISTANCE RATING FIRE PARTITIONS HORIZ HORIZONTAL RECEPTION — ROOM NAME AREA OF WORK (PER IBC SECTION 709 & TABLE 1018.1) FOUR-HOUR FIRE-RATED WALL ASSEMBLY HEATING VENTILATION AIR-CONDITIONING 100 **→** ROOM NUMBER STRUCTURAL DESIGN INFORMATION: INSULATION SEE PARTITION TYPES FOR UL DESIGN NO'S. * SEE S0.1 FOR STRUCTURAL CODE INFORMATION LAVATORY DOOR SYMBOL MAXIMUM **GENERAL DESIGN INFORMATION:** MECH EXPANSION JOINT TYPE MECHANICAL DOOR NUMBER MANUFACTURER * SEE IBC 508.2. THE RENOVATED AREA (3005 SF) IS AN ACCESSORY OCCUPANCY TO THE EXISTING BUILDING (APPROX. 237,000SF). NO SEPARATION IS REQUIRED BETWEEN ACCESSORIE OCCUPANCIES AND THE MAIN OCCUPANCY. MASONRY OPENING BRICK VENEER / CMU CONTROL JOINT * SEE IBC TABLE 1018.1. A 1 HOUR FIRE-RESISTANCE RATING IS REQUIRED AT CORRIDORS. NOT IN CONTRACT * ALL AREAS NOT INCLUDED IN THE RENOVATION SCOPE ARE TO REMAIN AS CURRENTLY DESIGNED. NTS NOT TO SCALE TOILET / LOCKER ROOM ACCESSORY SYMBOL STRUCTURAL DESIGN INFORMATION: ON CENTER OUTSIDE DIAMETER DIMENSION TO FACE OR EDGE * EXISTING STRUCTURE TO REMAIN OPNG OPPOSITE **ELECTRICAL INFORMATION:** GYPSUM BOARD CONTROL JOINT DIMENSION TO CENTERLINE PLATE, PROPERTY LINE PRESSURE TREATED R, RAD 2. PROVIDE THE FOLLOWING SERVICE INFORMATION: -◆ EL 14'-0" FIN FLOOR REQD REQUIRED ELEVATION ABOVE SEA LEVEL SERVICE VOLTAGE/PHASE: EXISTING **ROOF DRAIN** ITEM IDENTIFIED SERVICE ENTRANCE CONDUCTORS SIZE: EXISTING ROUGH OPFNING TOTAL CONNECTED LOAD: EXISTING ESTIMATED MAXIMUM DEMAND: EXISTING WINDOW / STOREFRONT / CURTAIN WALL / LOUVER TYPE AVAILABLE FAULT CURRENT IN SYMMETRICRAL AMPERES: EXISTING ORIENTATION OF CUT PLANE SPECIFICATIONS INTERRUPTING CAPACITY OF SERVICE OVERCURRENT DEVICE: EXISTING (INTERIOR ELEVATION ONLY TYPE OF GROUNDING ELECTRODE SYSTEM(S) PER NEC 250-C: EXISTING 1A PARTITION TYPE 3. EMERGENCY GENERATOR: NO STR STRUCTURAL 4. EXIT/EMERGENCY LIGHTS BACKUP POWER: INTEGRAL BATTERY SUSP SUSPENDED 5. FIRE ALARM SYSTEM: <u>ADDRESSABLE</u> TOP OF STEEL 6. LIGHTNING PROTECTION PROVIDED: NO FIRE EXTINGUISHER RECESSED IN WALL CABINET TOP OF WALL 7. COMMUNICATIONS COORDINATED: NOT REQUIRED TYPICAL UNLESS NOTED OTHERIWSE PLUMBING INFORMATION: FIRE EXTINGUISHER MOUNTED ON WALL BRACKETS VERTICAL **REVISION SYMBOL** VINYL COMPOSITION TILE 1. WATER SYSTEM: SERVICE LINE SIZE: 1-1/2 INCHES PEAK: 42 GPM TOTAL DEMAND: 30 F.U. 2. SANITARY SEWER SYSTEM LOADING: 1440 GPD FD - FLOOR DRAIN WATER CLOSET SLOPE: 0.125 INCHES PER FOOT 3. SERVICE LINE SIZE: 4 INCHES WATER RESISTANT CLOUD AROUND REVISION WELDED WIRE FABRIC PLUMBING FIXTURE CALCULATIONS: WOOD **BUILDING SECTION REFERENCE** * NEW TOILET AND SINK PROVIDED FOR CONVENIENCE. DECREASED OCCUPANCY LOAD DOES NOT REQUIRE ADDITIONAL PLUMBING FIXTURES. - WHERE BUILDING SECTION IS SHOWN EXTERIOR WALL / ROOF CONSTRUCTION TYPE

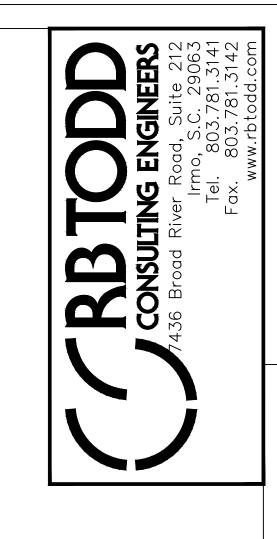
KEY PLAN - GROUND FLOOR/FIRST FLOOR

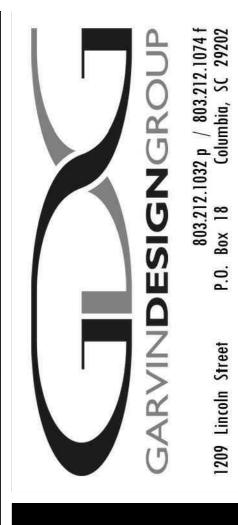
T1.1 / 1/32" = 1'-0" REFERENCED ON: A4.1

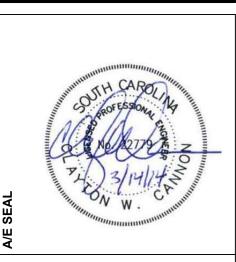














BLATT WEIGHT ROOM RENOVATION UNIVERSITY OF SOUTH CAROLINA

EXISTING CONDITION DEMO PLAN

KEY NOTES

- (1.) REMOVE EXISTING CONCRETE WALK COMPLETE
- REROUTE and REMOVE EXISTING PVC PER PLUMBING DRAWINGS
- PROTECT EXISTING LIGHT POLE DURING CONSTRUCTION
- SEE ARCH PLANS FOR EXTERIOR BUILDING WALL DEMOINFORMATION

LEGEND

309

 \times (309.50)

UGE UGE UGE UGE UGE

_____SD-____SD-____SD-____SD-____

N/A

DESCRIPTION

BUILDING

CONTOUR

LIGHT POLE

TREE/SHRUB

BITUMINOUS SURFACE

CONCRETE SURFACE

SPOT ELEVATION

WATER VALVE

WATER METER

w/LIGHT POLE

CHAIN LINK FENCE

UNDERGROUND ELECTRIC LINE

SANITARY SEWER CLEANOUT

KEY NOTE REFERENCE

STORM DRAIN LINE W/STRUCTURE

BENCHMARK/CONTROL POINT

PROPERTY LINE/RIGHT OF WAY

DEMOLITION EXISTING

N/A

N/A

N/A

N/A

N/A

N/A

N/A

N/A

- 5.) TIE EXISTING 8" PVC DRAIN LINE INTO NEW DROP INLET,
- REMOVE EXISTING LANDSCAPE AS REQUIRED FOR NEW CONSTRUCTION
- CONSTRUCTION VEHICLES WILL BE ALLOWED TO THE PROJET SITE WITHIN THE PERIMETER AREA MARKED BY THE OWNER. CONTRACTOR TO COORDINATE THE LOCATION OF ALL EXISTING IRRIGATION AND DRAINAGE ALONG ACCESS FROM SUMTER STREET. ANY EXISTING IRRIGATION, CONCRETE WALKS CRACKED OR SPLASHED UPON, SHALL BE REPLACED AT NO COST TO THE OWNER.

GENERAL NOTES

DISTURBED AREA: 0.05 ACRES

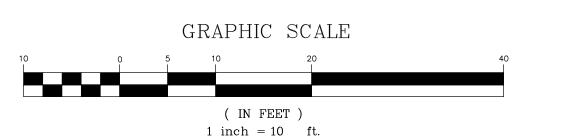
ACTUAL FIELD CONDITIONS.

- 1. TOPOGRAPHIC SURVEY WAS COMPLETED BY POWER ENGINEERING COMPANY ON FEBRUARY 15, 2014. NO BOUNDARY OR TOPOGRAPHIC SURVEY WAS PERFORMED BY R.B. TODD CONSULTING ENGINEERS.
- 2. OWNER: USC FACILITIES 743 GREENE STREET COLUMBIA SC 29201 PHONE NUMBER: 803-777-5811 TMS: R11303-09-01 ZONING: C-1DEVELOPMENT ADDRESS: 1300 Wheat Street, Columbia SC 29205

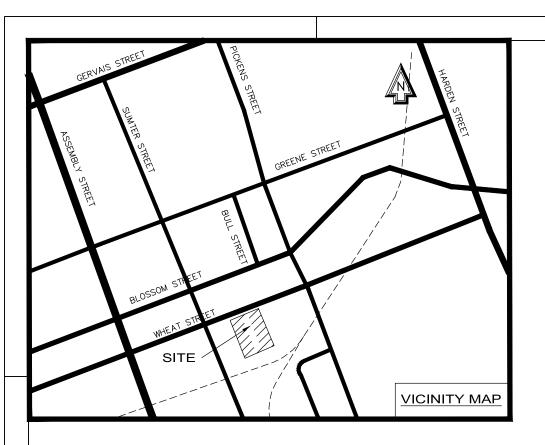
4. THE CONTRACTOR SHALL NOTIFY THE ENGINEER PRIOR TO

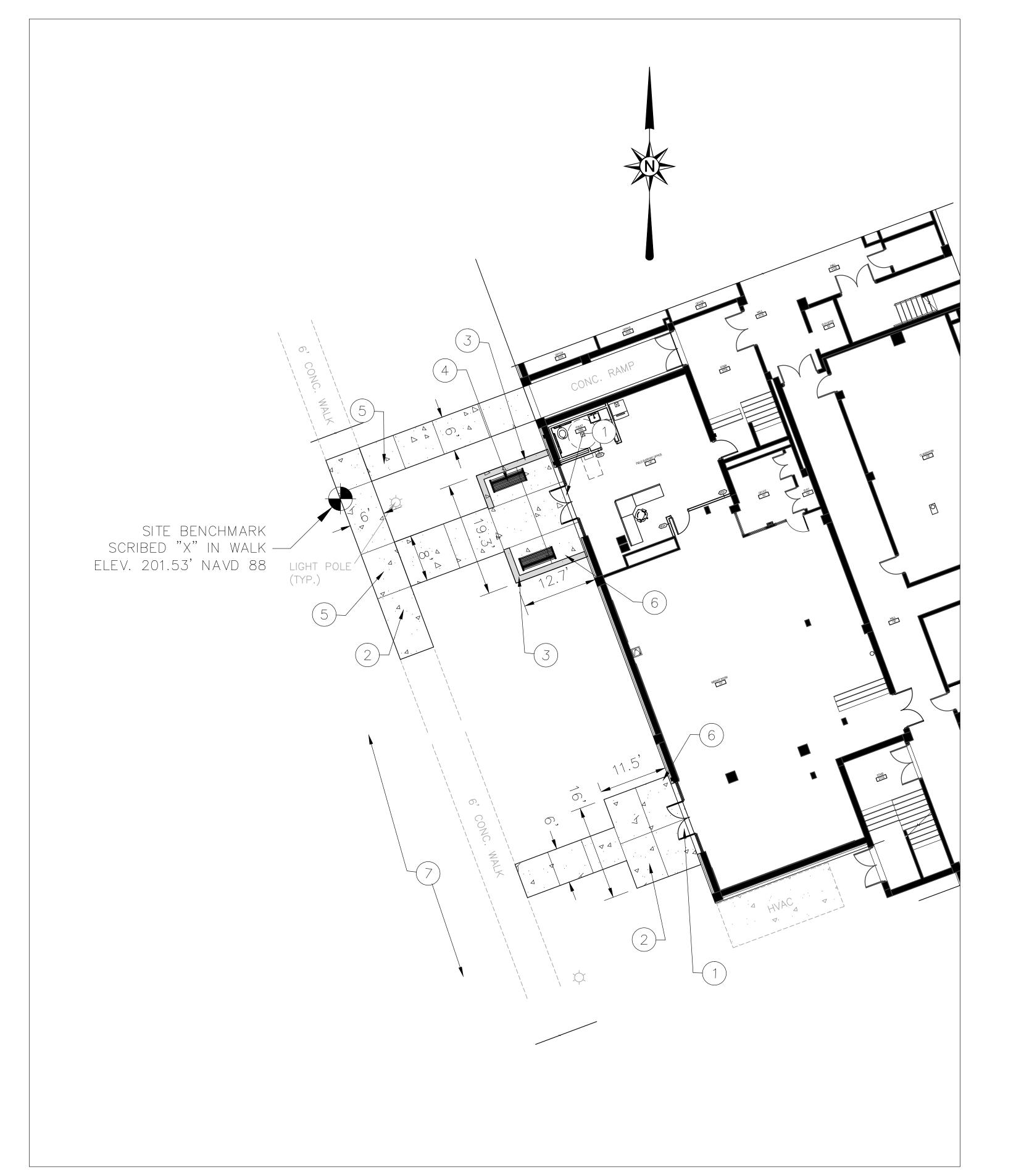
- 3. ACCORDING TO FEMA FLOOD INSURANCE RATE MAP 45079C0094H, DATED FEBRUARY 20, 2002, A PORTION OF THIS PROPERTY IS LOCATED IN FLOOD ZONE "AE".
- 5. THE CONTRACTOR SHALL NOTIFY PUPS AT 1-888-721-7877 AT LEAST 72 HOURS PRIOR TO CONSTRUCTION TO HAVE ALL UNDERGROUND UTILITIES LOCATED.

CONSTRUCTION OF ANY DISCREPANCIES BETWEEN THESE PLANS AND



C1.0





GENERAL NOTES

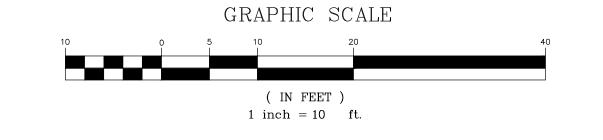
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- 4. THE CONTRACTOR SHALL NOTIFY THE ENGINEER PRIOR TO CONSTRUCTION OF ANY DISCREPANCIES BETWEEN THESE PLANS AND ACTUAL FIELD CONDITIONS.
- 5. THE CONTRACTOR SHALL NOTIFY PUPS AT 1-888-721-7877 AT LEAST 72 HOURS PRIOR TO CONSTRUCTION TO HAVE ALL UNDERGROUND UTILITIES LOCATED.

LEGEND

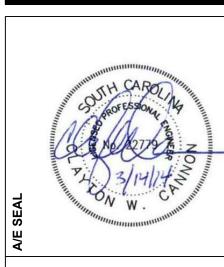
NEW	EXISTING	DESCRIPTION
N/A		BENCHMARK/CONTROL POINT
N/A		BUILDING
N/A	*	LIGHT POLE
N/A		CURB AND GUTTER
		CONCRETE SURFACE
N/A		BITUMINOUS SURFACE
		SITE WALL
(1)	N/A	KEY NOTE REFERENCE

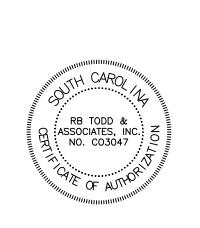


KEY NOTES

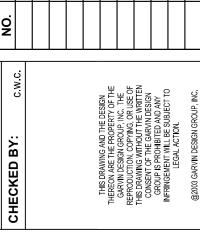
- 1.) NEW EXTERIOR DOOR/ENTRY SEE ARCH PLANS
- 2.) NEW 4" THICK EXTERIOR CONCRETE
- 3.) NEW SITE WALL SEE ARCH FOR WALL SECTION
- (4.) NEW BENCH SEAT TYP. OF 2, SEE ARCH PLANS FOR DETAILS
- (5.) REMOVE AND REPLACE EXISTING CONCRETE WALK
- 6.) SEE STRUCTURAL PLAN FOR THICKENED EDGE LOCATION AND DETAIL

7. CONSTRUCTION VEHICLES WILL BE ALLOWED TO THE PROJECT SITE WITHIN THE PERIMETER AREA MARKED BY THE OWNER. CONTRACTOR TO COORDINATE THE LOCATION OF ALL EXISTING IRRIGATION AND DRAINAGE ALONG ACCESS FROM SUMTER STREET. ANY EXISTING IRRIGATION, CONCRETE WALKS CRACKED OR SPLASHED UPON, SHALL BE REPLÁCED AT NO COST TO THE OWNER.

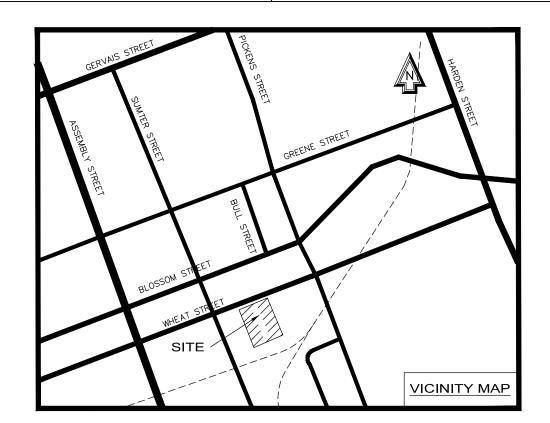




BLATT WEIGHT ROOM RENOVAUNIVERSITY OF SOUTH CAROL



C2.0



GENERAL NOTES

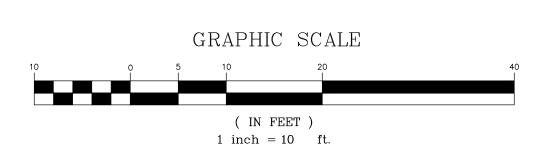
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- 2. OWNER: USC FACILITIES
 743 GREENE STREET
 COLUMBIA SC 29201
 PHONE NUMBER: 803-777-5811
 TMS: R11303-09-01
 ZONING: C-1
 DEVELOPMENT ADDRESS: 1300 Wheat Street, Columbia SC 29205
 DISTURBED AREA: 0.05 ACRES
- 3. ACCORDING TO FEMA FLOOD INSURANCE RATE MAP 45079C0094H, DATED FEBRUARY 20, 2002, A PORTION OF THIS PROPERTY IS LOCATED IN FLOOD ZONE "AE".
- 4. THE CONTRACTOR SHALL NOTIFY THE ENGINEER PRIOR TO CONSTRUCTION OF ANY DISCREPANCIES BETWEEN THESE PLANS AND ACTUAL FIELD CONDITIONS.
- 5. THE CONTRACTOR SHALL NOTIFY PUPS AT 1-888-721-7877 AT LEAST 72 HOURS PRIOR TO CONSTRUCTION TO HAVE ALL UNDERGROUND UTILITIES LOCATED.

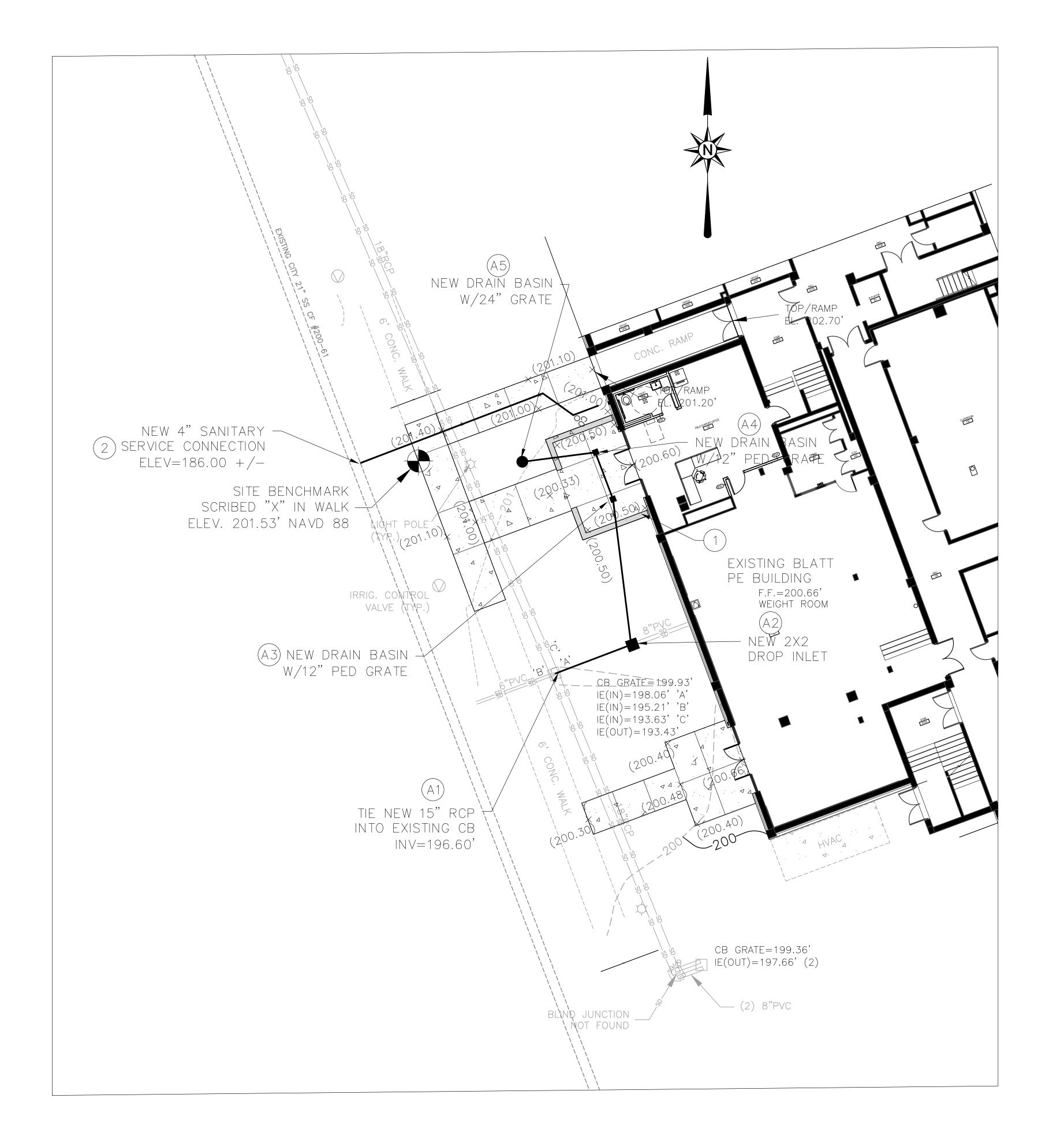
KEY NOTES

- (1.) SITE WALL TOP OF WALL=202.66' TYP. FOR ALL
- 2. NEW 4" SANITARY SEWER SERVICE. OWNER TO PAY FOR TAP FEE AT CITY OF COLUMBIA UTILITY DEPT. CITY TO PERFORM ACTUAL TAP. SITE CONTRACTOR TO EXTEND TO 5' OUTSIDE BUILDING. INSTALL CLEANOUT AT BEND NEAR BUILDING AS SHOWN

LEGEND

NEW	EXISTING	DESCRIPTION
N/A	•	BENCHMARK/CONTROL POINT
N/A		PROPERTY LINE/RIGHT OF WAY
N/A		BUILDING
N/A		TREE
		CONTOUR
× (829.50)	× 829.50	SPOT ELEVATION
N/A		FIRE HYDRANT
N/A	\Diamond	LIGHT POLE
N/A	₩V	WATER VALVE
N/A		WATER METER
N/A		WATER MAIN/SERVICE
•	SDSDSDSDSD	STORM DRAIN LINE w/STRUCTURE
	55 -55 55 55 55 55 55 55	SANITARY SEWER LINE W/MANHOLE
CO O	CO	SANITARY SEWER CLEANOUT
N/A		CHAIN LINK FENCE
	N/A	KEY NOTE REFERENCE





I (WE) CERTIFY THAT ALL CLEARING, GRADING, CONSTRUCTION AND/OR DEVELOPMENT WILL BE DONE PURSUANT TO THIS PLAN.

DATE

 PROPOSED STORM DRAINAGE STRUCTURE TABLE

 IDENTIFICATION
 DESCRIPTION
 RIM/THR./GR.
 INVERT(S) IN
 INVERT OUT
 DOWNSTREAM PIPE

 A1
 EXIST DI
 - 196.60
 - -

 A2
 DI - 2X2
 199.80
 197.50
 196.80
 15 LF 15" ⊚ 1.33%

 A3
 DRAIN BASIN -12" GR
 200.45
 197.81
 197.76
 26 LF 12" ⊚ 1.00%

 A4
 DR BASIN - 12" GR
 200.45
 197.95
 197.90
 9 LF 12" ⊚ 1.00%

 A5
 DR BASIN - 24" GRATE
 200.25
 - 198.08
 13 LF 12" ⊚ 1.00%

 * ALL INLET FRAME AND GRATES IN HARD SURFACE AREAS TO BE PEDESTRIAN ADA COMPLIANT
 INVERTOUT
 INVERT OUT
 INVERT OUT

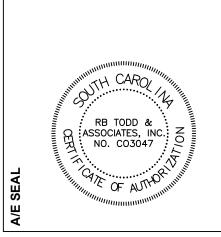
I HEREBY CERTIFY THAT THIS PLAN IS DESIGNED TO MEET STORM DRAINAGE REQUIREMENTS AND TO CONTAIN SILT ON THE PROPERTY CONCERNED TO THE MAXIMUM EXTENT FEASIBLE. PROVISIONS FOR EROSION AND SEDIMENT CONTROL AND STORM DRAIANGE ARE IN ACCORDANCE WITH THE COLUMBIA SEDIMENT AND EROSION CONTROL AND STORM DRAINAGE ORDINANCE.

PERMIT APPLICANT

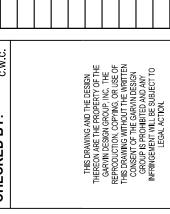
DATE REGISTERED ENGINEER

GARVINDESIGNGROUP





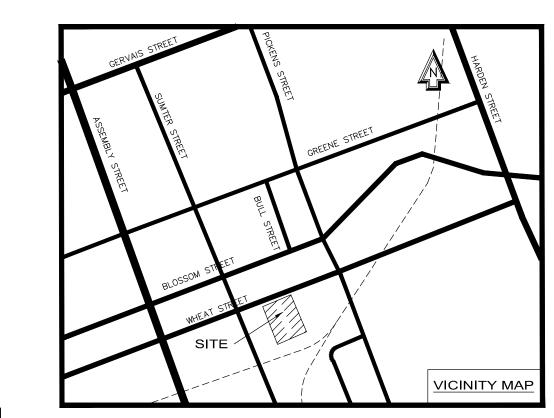
BLATT WEIGHT ROOM RENOVATION
UNIVERSITY OF SOUTH CAROLINA



GRADING AND DRAINAGE PLAI

05.07.14 05.07.14 05.07.14

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AIRBORNE DUST CONTROL

THE CONTRACTOR SHALL IMPLEMENT DUST CONTROL MEASURES AS OUTLINED IN THE SOUTH CAROLINA DHEC STORMWATER MANAGEMENT BMP HANDBOOK AS NEEDED TO CONTROL AIRBORNE DUST DURING CONSTRUCTION. COORDINATE WITH ENGINEER PRIOR TO IMPLEMENTATION OF VARIOUS MEASURES.

CONSTRUCTION SEQUENCE OF ENTIRE CONSTRUCTION AREA FOR EROSION AND SEDIMENT CONTROL

- 1. PRE-CONSTRUCTION MEETING (ON-SITE IF MORE THAN 10 DISTURBED AND NON-LINEAR). 2. NOTIFY CITY OF COLUMBIA OFFICE 48 HOURS PRIOR TO BEGINNING LAND-DISTURBING ACTIVITIES.
- 3. INSTALLATION OF PERIMETER CONTROLS (E.G., SILT FENCE, INLET PROTECTION ON EXISTING STRUCTURES). 4. CLEARING & GRUBBING OF SITE FOR DEMOLITION (SEDIMENT & EROSION CONTROL MEASURES FOR THESE AREAS MUST ALREADY
- BE INSTALLED). 5. BUILDING DEMO/RENOVATION WORK
- 6. ROUGH GRADING. INSTALLATION OF STORM DRAIN SYSTEM AND PLACEMENT OF INLET PROTECTION AS EACH INLET IS INSTALLED.
- 8. INSTALLATION OF SITE PLANTER WALLS 10. EXTERIOR CONCRETE INSTALLATION
- 11. FINAL SITE LANDSCAPING AND CLEANUP
- 12. REMOVAL OF TEMPORARY SEDIMENT & EROSION CONTROL MEASURES AFTER ENTIRE AREA DRAINING TO THE STRUCTURE IS FINALLY STABILIZED (THE DEPARTMENT RECOMMENDS THAT THE PROJECT OWNER/OPERATOR HAVE THE SWPPP PREPARER OR REGISTRATION EQUIVALENT APPROVE THE REMOVAL OF TEMPORARY STRUCTURES).

EROSION AND SEDIMENT CONTROL MEASURES

THE CONTRACTOR IS ADVISED THAT ALL GRADING AND DRAINAGE WORK ON THE PROJECT IS PERMITTED UNDER THE REQUIREMENTS OF THE SOUTH CAROLINA DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL, DIVISION OF STORMWATER MANAGEMENT. COMPLIANCE WITH THE PERMITTED CONDITIONS IS MANDATORY. THE CONTRACTOR SHALL RELY ON EXPERIENCE AND CONTROL OF THE WORK TO PROVIDE ADEQUATE AND ORDERLY CONSTRUCTION METHODS TO CONTROL STORMWATER RUNOFF AND PREVENT THE EXCESSIVE MIGRATION OF SEDIMENTS FROM THE SITE. THE CONTRACTOR ALSO SHALL DIRECT INSTALLATION OF NECESSARY TEMPORARY CONSTRUCTION MEASURES TO CONTROL STORMWATER RUNOFF. ALL STORMWATER MANAGEMENT MEASURES SHALL BE INSPECTED AFTER EACH RAIN EVENT AND ANY REQUIRED MAINTENANCE SHALL BE PERFORMED.

SILT FENCES OR EQUIVALENT SEDIMENT CONTROL SHALL BE INSTALLED WHERE INDICATED AND MAINTAINED IN ACCORDANCE WITH THIS PLAN.

TEMPORARY BARRIERS OF EITHER SILT FENCING OR ROCK RIPRAP SHALL BE INSTALLED AND MAINTAINED AROUND STORM DRAINAGE STRUCTURES UNTIL THEIR DRAINAGE AREA IS STABILIZED. STORM DRAINAGE PIPES, INCLUDING OUTLET PROTECTION, SHALL BE INSTALLED AS SOON AS EARTH GRADING IS ADEQUATE TO ACCEPT PIPE INSTALLATION. INLET STRUCTURES SHALL BE CONSTRUCTED AS THE EARTHFILL IS PLACED AND CONSTRUCTION SHALL AT ALL TIMES PROVIDE SURFACE DRAINAGE TO THEM. TEMPORARY BARRIERS SHALL BE INSTALLED AND MAINTAINED AT EACH INLET AS THE EARTH FILL RISES.

STABILIZATION OF DISTURBED AREAS

DISTURBED AREAS SHALL RECEIVE STABILIZING MEASURES WITHIN 14 DAYS AFTER DISTURBANCES, UNLESS CONSTRUCTION WILL RESUME IN THAT AREA WITHIN 21 DAYS

INSPECTION AND MAINTENANCE

SEDIMENT CONTROL SYSTEMS SHALL BE INSPECTED AT LEAST WEEKLY AND AFTER ANY RAINFALL EVENT EXCEEDING 0.5 INCH. ANY NEEDED CORRECTIONS OR

REMOVAL OF SEDIMENT CONTROL SYSTEMS

MAINTENANCE SHALL BE ACCOMPLISHED IMMEDIATELY THEREAFTER.

NEEDED UNTIL THE SLOPE IS BROUGHT TO GRADE.

ONCE CONSTRUCTION IS COMPLETE AND THE SITE IS STABILIZED.

• SOAPS OR SOLVENTS USED IN VEHICLE AND EQUIPMENT WASHING.

TEMPORARY EROSION CONTROL MEASURES SHALL BE REMOVED AFTER EACH AFFECTED AREA HAS BEEN "FINALLY STABILIZED".

TEMPORARY DIVERSIONS

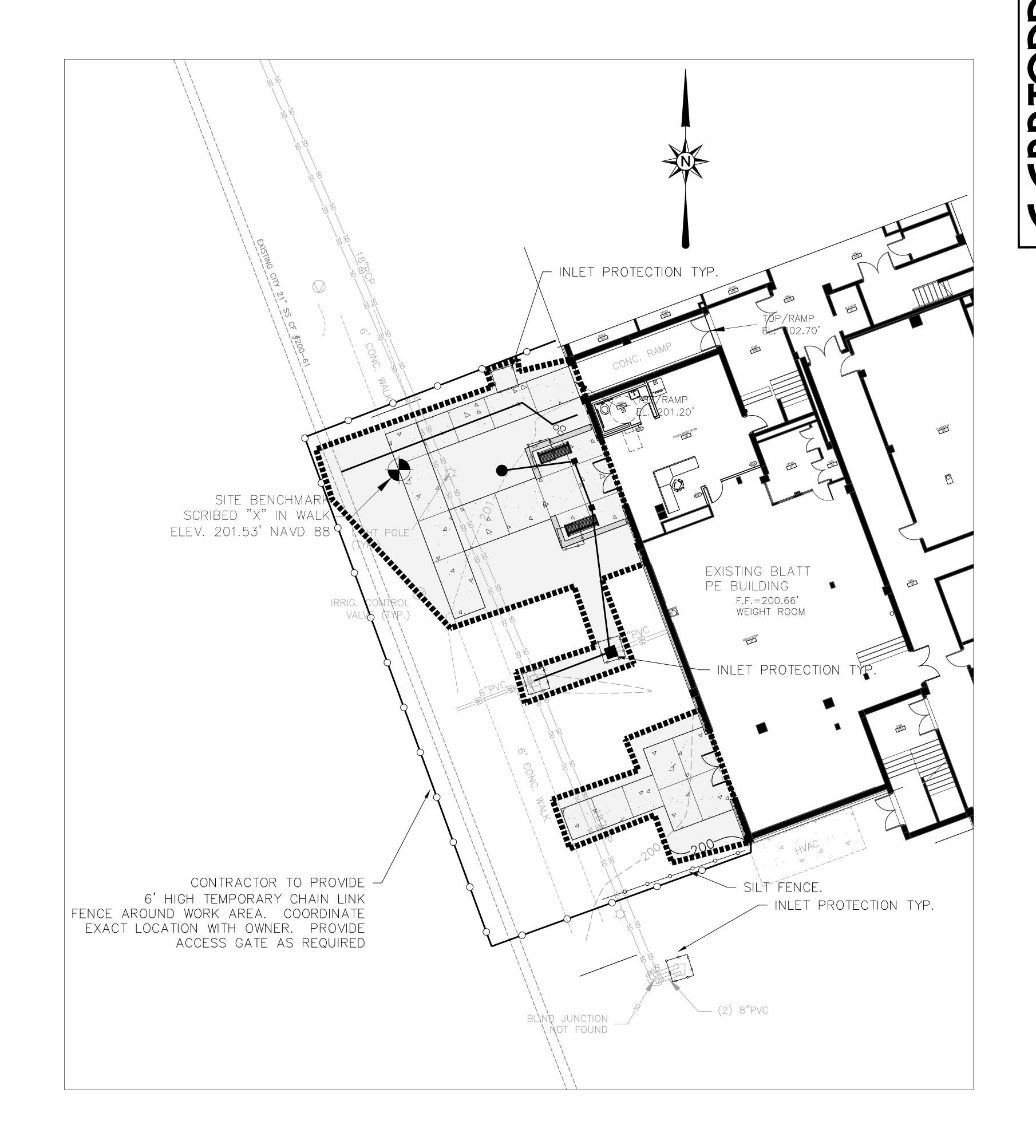
TEMPORARY DIVERSION BERMS AND/OR DITCHES WILL BE PROVIDED AS NEEDED DURING CONSTRUCTION TO PROTECT WORK AREAS FROM UPSLOPE RUNOFF AND/OR DIVERT SEDIMENT LADEN WATER TO APPROPRIATE TRAPS OR STABLE OUTLETS TEMPORARY DIVERSIONS SHALL BE CONSTRUCTED AS NECESSARY TO PREVENT FLOW OF STORMWATER OVER DISTURBED AREA. TEMPORARY DIVERSION OUTLETS SHALL HAVE ADEQUATE CAPACITY AND TERMINATE INTO DENSE VEGETATION, ROCK RIP RAP, STORM STRUCTURES OR SIMILAR MEASURES TO REDUCE EROSION AT THE OUTLET. TEMPORARY DIVERSION CHANNELS SHALL BE CONSTRUCTED AND MAINTAINED AT A MINIMUM OF 1 PERCENT GRADE AND A MAXIMUM GRADE OF 2 PERCENT. THE CAPACITY F TEMPORARY DIVERSIONS SHALL BE RESTORED ANYTIME THE EXCAVATED CHANNEL BECOMES FULL OF SEDIMENT AT ANY POINT IN THE LENGTH OF THE DIVERSION. THE RIDGE AND CHANNEL OF THE TEMPORARY DIVERSIONS SHALL BE STABILIZED WITH TEMPORARY VEGETATION IMMEDIATELY AFTER CONSTRUCTION AND RE-STABILIZED AFTER

SEDIMENT AND EROSION CONTROL NOTES

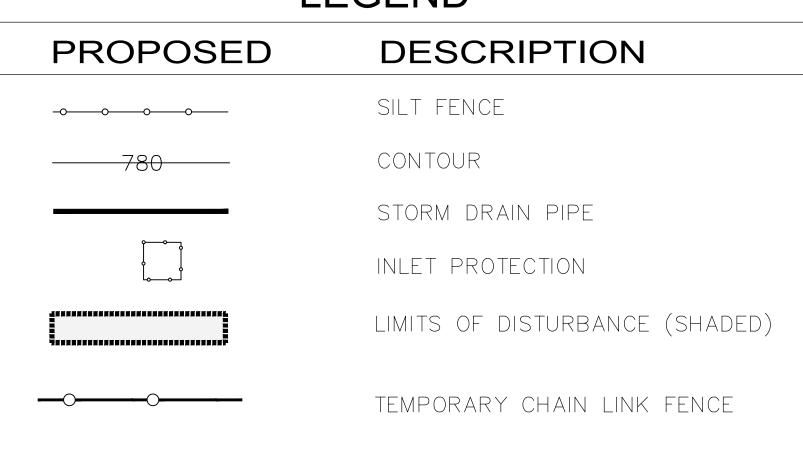
- 1. THE CONTRACTOR SHALL PROVIDE AND MAINTAIN THROUGHOUT THE LENGTH OF CONSTRUCTION SILT FENCES AT ALL STORM DRAINAGE STRUCTURES AND ALONG THE PERIMETER OF CONSTRUCTION AS NECESSARY TO CONTAIN ALL SEDIMENT RUNOFF WITHIN THE AREAS DISTURBED BY CONSTRUCTION.
- 2. STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS PRACTICABLE IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED, BUT IN NO CASE MORE THAN FOURTEEN (14) DAYS AFTER WORK HAS CEASED EXCEPT AS > WHERE STABILIZATION BY THE 14th DAY IS PRECLUDED BY SNOW COVER OR FROZEN GROUND CONDITIONS, STABILIZATION MEASURES MUST BE INITIATED AS SOON AS PRACTICABLE. > WHERE CONSTRUCTION ACTIVITY ON A PORTION OF THE SITE IS TEMPORARILY CEASED, AND EARTH-DISTURBING ACTIVITIES WILL BE RESUMED WITHIN 14 DAYS, TEMPORARY STABILIZATION MEASURES DO NOT HAVE TO BE INITIATED ON THAT PORTION OF THE SITE.
- 3. ALL SEDIMENT AND EROSION CONTROL DEVICES SHALL BE INSPECTED AT LEAST ONCE EVERY CALENDAR WEEK. IF PERIODIC INSPECTION OR OTHER INFORMATION INDICATES THAT A BMP HAS BEEN INAPPROPRIATELY OR INCORRECTLY INSTALLED, THE PERMITTEE MUST ADDRESS THE NECESSARY REPLACEMENT OR MODIFICATION REQUIRED TO CORRECT THE BMP WITHIN 48 HOURS OR IDENTIFICATION.
- 4. SEDIMENT DEPOSITS SHOULD BE REMOVED WHEN THEY REACH ONE-THIRD THE HEIGHT OF THE SEDIMENT FENCE.
- 5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR STABILIZING ALL SLOPES FROM FINISH GRADE TO NATURAL GROUND AND FOR PREVENTING EXCESSIVE EROSION FROM OCCURRING. IMMEDIATELY AFTER ESTABLISHING THE INTERMEDIATE ROUGH GRADE SLOPES AND AFTER REACHING THE FINAL GRADE SLOPES, THE CONTRACTOR SHALL PROVIDE GRASSING OF THESE SLOPES. WHEN SLOPES ARE DISTURBED BY SUBSEQUENT EXCAVATIONS FOR OTHER ITEMS, THE CONTRACTOR SHALL INSPECT THE REPAIRS AND CORRECT ANY DEFICIENCIES IN THE
- 6. ALL GRADING WORK SHALL CONFORM SUBSTANTIALLY WITH THE GRADING PLANS. WHERE SPOT GRADES ARE INDICATED ON THE PLANS, THEY SHALL BE ESTABLISHED BY SCALING AND SHALL TAKE PRECEDENCE OVER CONTOURS. ALL GRADING BETWEEN SPOT GRADES SHALL
- 7. THE CONTRACTOR SHALL ADEQUATELY COORDINATE THE INSTALLATION OF THE STORM DRAINAGE SYSTEM TO ENSURE THAT POSITIVE RUNOFF OF STORMWATER IS EFFECTED BOTH DURING CONSTRUCTION AND AFTER COMPLETION OF THE WORK.
- 8. IF NECESSARY, SLOPES WHICH EXCEED 8 VERTICAL FEET SHOULD BE STABILIZED WITH SYNTHETIC OR VEGETATIVE MATS, IN ADDITION TO HYDROSEEDING. IT MAY BE NECESSARY TO INSTALL TEMPORARY SLOPE DRAINS DURING CONSTRUCTION. TEMPORARY BERMS MAY BE
- 9. PROVIDE SILT FENCE AND/OR OTHER CONTROL DEVICES, AS MAY BE REQUIRED, TO CONTROL SOIL EROSION DURING UTILITY CONSTRUCTION. ALL DISTURBED AREAS SHALL BE CLEANED, GRADED, AND STABILIZED WITH GRASSING IMMEDIATELY AFTER THE UTILITY INSTALLATION. COVER. AND TEMPORARY SEEDING AT THE END OF EACH DAY ARE RECOMMENDED. IF WATER IS ENCOUNTERED WHILE TRENCHING, THE
- 10. THE CONTRACTOR MUST TAKE NECESSARY ACTION TO MINIMIZE TRACKING OF MUD ONTO PAVED ROADWAY FROM CONSTRUCTION AREAS AND GENERATION OF DUST.

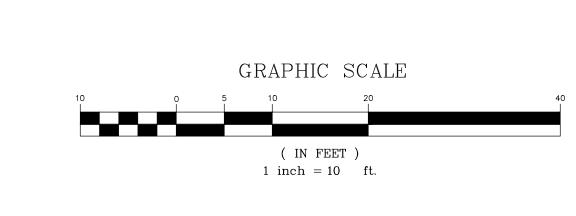
WATER SHOULD BE FILTERED TO REMOVE ANY SEDIMENTS BEFORE BEING PUMPED BACK INTO ANY WATERS OF THE STATE.

- 11. ALL EROSION CONTROL DEVICES SHALL BE PROPERLY MAINTAINED DURING ALL PHASES OF CONSTRUCTION UNTIL THE COMPLETION OF ALL CONSTRUCTION ACTIVITIES AND ALL DISTURBED AREAS HAVE BEEN STABILIZED. ADDITIONAL CONTROL DEVICES MAY BE REQUIRED DURING CONSTRUCTION IN ORDER TO CONTROL EROSION AND/OR OFFSITE SEDIMENTATION. ALL TEMPORARY CONTROL DEVICES SHALL BE REMOVED
- 12. TEMPORARY DIVERSION BERMS AND/OR DITCHES SHALL BE PROVIDED AS NEEDED DURING CONSTRUCTION TO PROTECT WORK AREAS FROM UPSLOPE RUNOFF AND/OR DIVERT SEDIMENT-LADEN WATER TO APPROPRIATE TRAPS OR STABLE OUTLETS.
- 13. ALL WATERS OF THE STATE (WoS), INCLUDING WETLANDS, ARE TO BE FLAGGED OR OTHERWISE CLEARLY MARKED IN THE FIELD. A DOUBLE ROW OF SILT FENCE IS TO BÈ INSTALLED IN ALL AREAS WHERE A 50—FOOT BUFFER CANNOT BE MAINTAINED BETWEEN THE DISTURBED
- AREAS AND ALL Wos. A 10-FOOT BUFFER SHOULD BE MAINTAINED BETWEEN THE LAST ROW OF SILT FENCE AND ALL Wos. 14. LITTER, CONSTRUCTION DEBRIS, OILS, FUELS, BUILDING PRODUCTS WITH SIGNIFICANT POTENTIAL FOR IMPACT (SUCH AS STOCKPILES OF
- FRESHLY TREATED LUMBER), AND CONSTRUCTION CHEMICALS THAT COULD BE EXPOSED TO STORMWATER MUST BE PREVENTED FROM BECOMING A POLLUTANT SOURCE IN STORMWATER DISCHARGES.
- 15. A COPY OF THE SWPPP, INSPECTIONS RECORDS, AND RAINFALL DATA MUST BE RETAINED AT THE CONSTRUCTION SITE OR A NEARBY LOCATION EASILY ACCESSIBLE DURING NORMAL BUSINESS HOURS, FROM THE DATE OF COMMENCEMENT OF CONSTRUCTION ACTIVITIES TO THE DATE THAT FINAL STABILIZATION IS REACHED.
- 16. INITIATE STABILIZATION MEASURES ON ANY EXPOSED STEEP SLOPE (3H:1V OR GREATER) WHERE LAND-DISTURBING ACTIVITIES HAVE 17. MINIMIZE SOIL COMPACTION AND, UNLESS INFEASIBLE, PRESERVE TOPSOIL.
- 18. MINIMIZE DISCHARGE OF POLLUTANTS FROM EQUIPMENT AND VEHICLE WASHING, WHEEL WASH WATER, AND OTHER WASH WATERS. WASH WATERS MUST BE TREATED IN A SEDIMENT BASIN OR ALTERNATIVE CONTROL THAT PROVIDES EQUIVALENT OR BETTER TREATMENT PRIOR
- 19. MINIMIZE THE DISCHARGE OF POLLUTANTS FROM DEWATERING OF TRENCHES AND EXCAVATED AREAS. THESE DISCHARGES ARE TO BE ROUTED THROUGH APPROPRIATE BMPs (SEDIMENT BASIN, FILTER BAG, ETC.).
- 20. THE FOLLOWING DISCHARGES FROM SITES ARE PROHIBITED: •WASTEWATER FROM WASHOUT OF CONCRETE, UNLESS MANAGED BY AN APPROPRIATE CONTROL; •WASTEWATER FROM WASHOUT AND CLEANOUT OF STUCCO, PAINT, FROM RELEASE OILS, CURING COMPOUNDS AND OTHER CONSTRUCTION •FUELS, OILS, OR OTHER POLLUTANTS USED IN VEHICLE AND EQUIPMENT OPERATION AND MAINTENANCE; AND
- 21. AFTER CONSTRUCTION ACTIVITIES BEGIN, INSPECTIONS MUST BE CONDUCTED AT A MINIMUM OF AT LEAST ONCE EVERY CALENDAR WEEK AND MUST BE CONDUCTED UNTIL FINAL STABILIZATION IS REACHED ON ALL AREAS OF THE CONSTRUCTION SITE.
- 22. IF EXISTING BMPs NEED TO BE MODIFIED OR IF ADDITIONAL BMPs ARE NECESSARY TO COMPLY WITH THE REQUIREMENTS OF THIS PERMIT AND/OR SC'S WATER QUALITY STANDARDS, IMPLEMENTATION MUST BE COMPLETED BEFORE THE NEXT STORM EVENT WHENEVER PRACTICAL. IF IMPLEMENTATION BEFORE THE NEXT STORM EVENT IS IMPRACTICABLE, THE SITUATION MUST BE DOCUMENTED IN THE SWPPP AND ALTERNATIVE BMPs MUST BE IMPLEMENTED AS SOON AS REASONABLY POSSIBLE.
- 23. A PRE-CONSTRUCTION CONFERENCE MUST BE HELD FOR EACH CONSTRUCTION SITE WITH AN APPROVED ON-SITE SWPPP PRIOR TO THE IMPLEMENTATION OF CONSTRUCTION ACTIVITIES. FOR NON-LINEAR PROJECTS THAT DISTURB 10 ACRES OR MORE THIS CONFERENCE MUST BE HELD ON-SITE UNLESS THE DEPARTMENT HAS APPROVED OTHERWISE.
- 24. RESIDENTIAL SUBDIVISIONS REQUIRE EROSION CONTROL FEATURES FOR INFRASTRUCTURE AS WELL AS FOR INDIVIDUAL LOT CONSTRUCTION. INDIVIDUAL PROPERTY OWNERS SHALL FOLLOW THESE PLANS DURING CONSTRUCTION OR OBTAIN APPROVAL OF AN INDIVIDUAL PLAN IN ACCORDANCE WITH S.C. REG. 72-300 ET SEQ AND SCR100000.



LEGEND







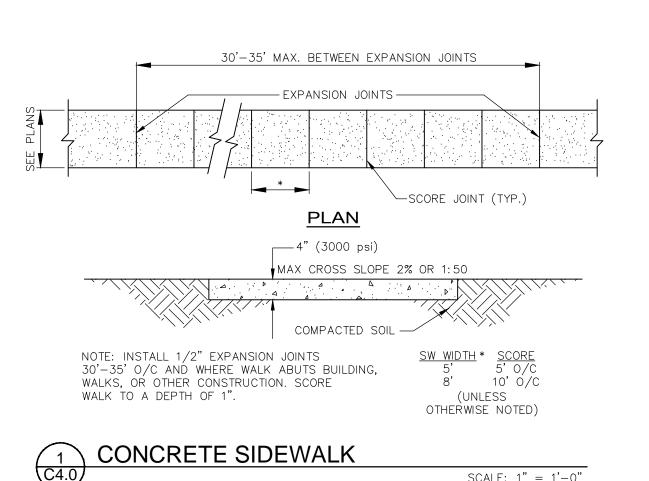


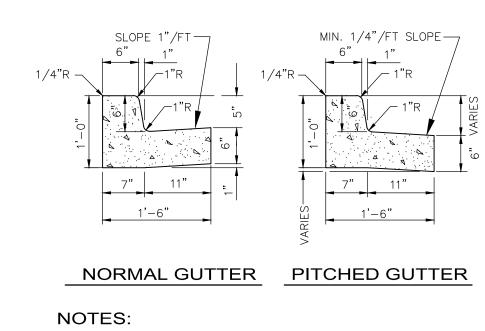


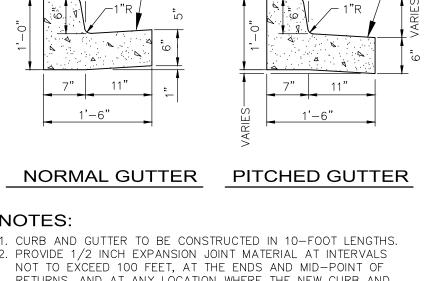
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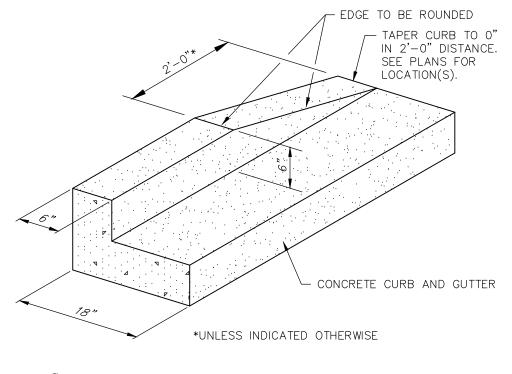
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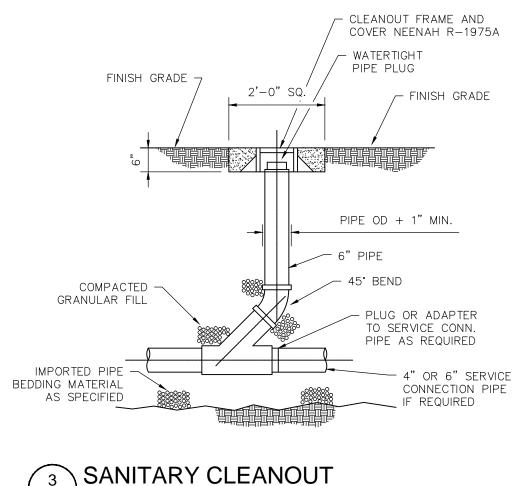
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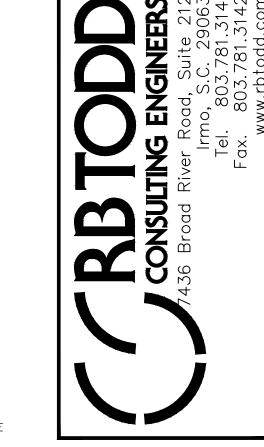






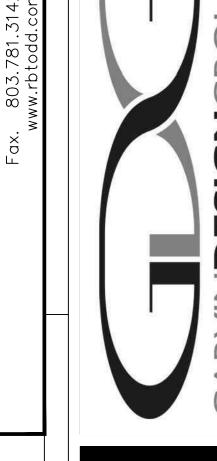


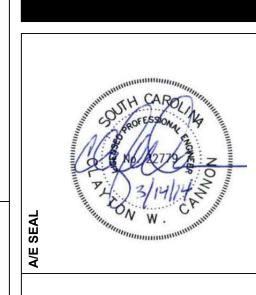




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(SEE DETAIL)

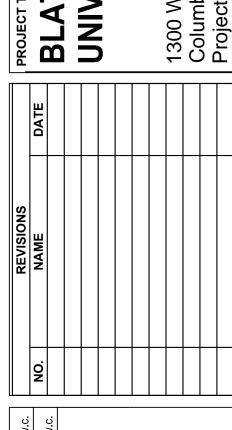


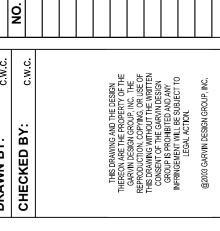


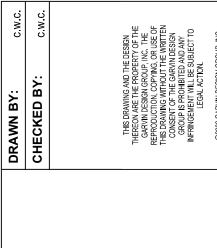




BLATT WEIGHT ROOM RENOVAUNIVERSITY OF SOUTH CAROL

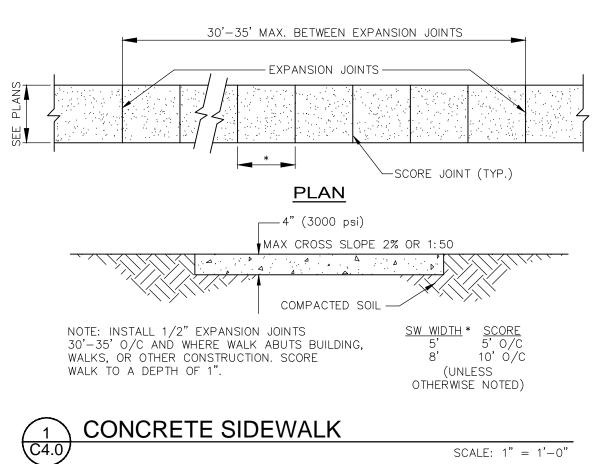


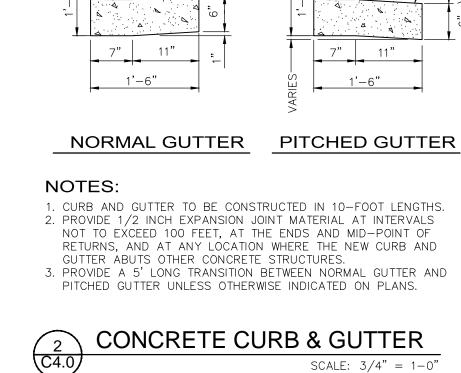


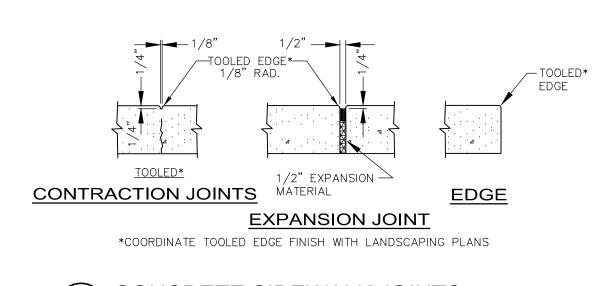


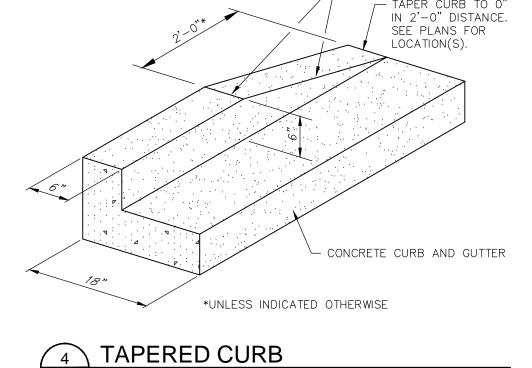
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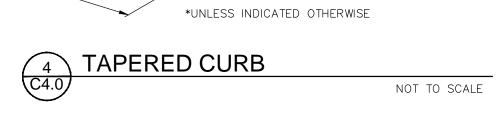
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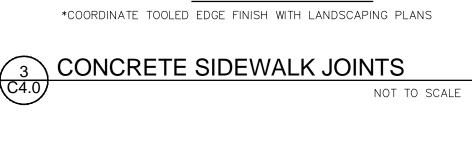




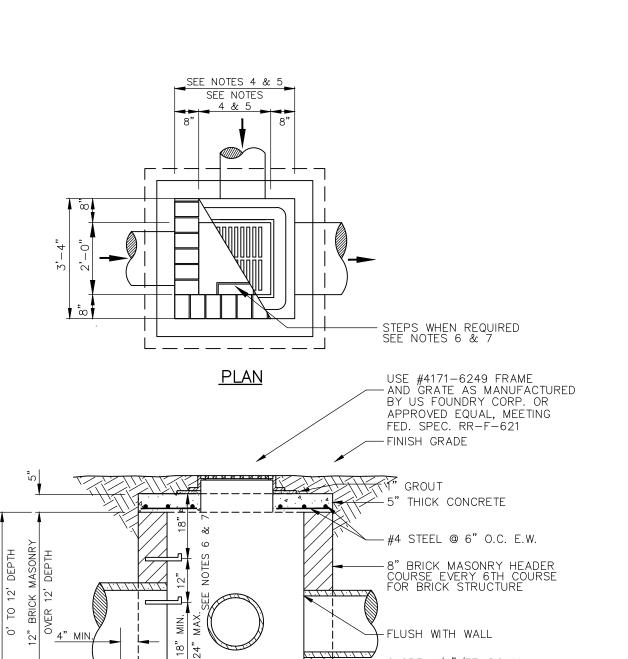










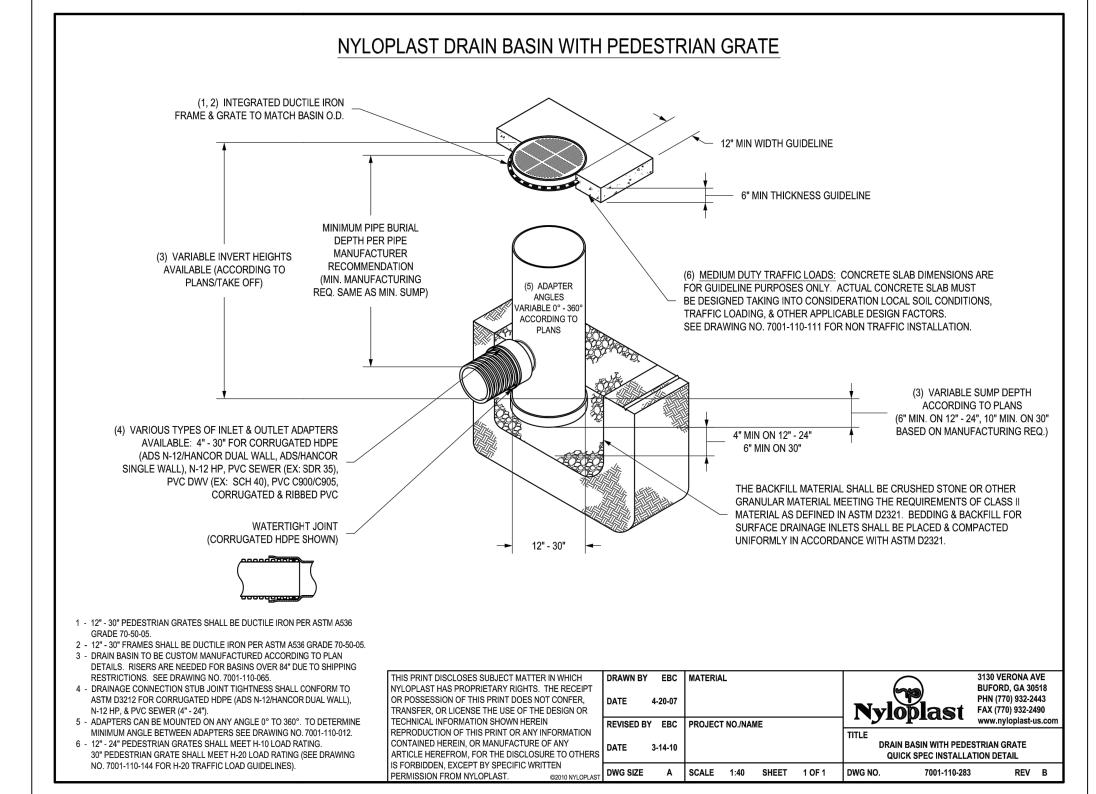


#4 STEEL @ 10" O.C. E.W.

COMPACTED SUBGRADE

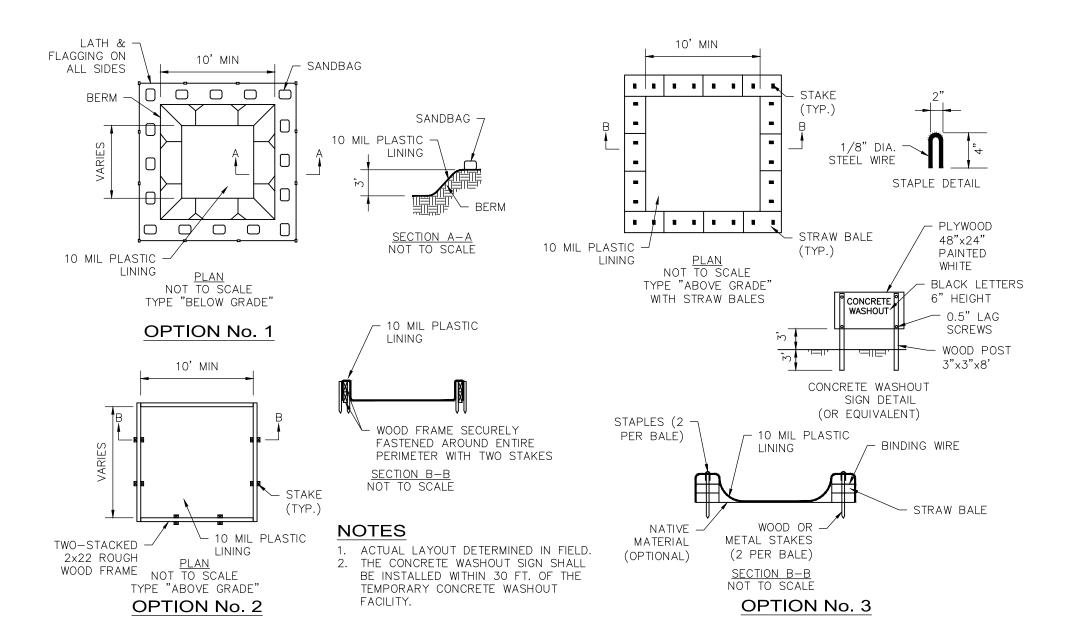
I. ALL CONCRETE SHALL BE 3,000 PSI. 1. ALL CONCRETE SHALL BE 3,000 PSI.
2. ENDS OF ALL PIPES SHALL BE FLUSH WITH INSIDE WALL.
3. ALL STEEL BARS SHALL BE PLACED 1-1/2" CLEAR FROM BOTTOM AND SIDES OF SLAB.
4. FOR 15" - 24" I.D. PIPES USE 3'-0" x 3'-0" BOX.
5. FOR PIPES OVER 24" I.D. BOX INSIDE DIMENSIONS SHALL BE PIPE O.D. + 6" EACH SIDE OF PIPE.
6. STEPS CONFORMING TO ASTM C478 SHALL BE REQUIRED WHEN STRUCTURE DEPTH IS GREATER THAN 4'.
7. ALL STEPS SHALL BE PLACED 12" O/C AND PROTRUDE 4" FROM INSIDE FACE OF STRUCTURE WALL. ALL STEPS SHALL BE PLACED 12 0/C AND PROTRODE 4 FROM INSIDE FACE OF STRUCTURE WALL.
 CONCRETE BRICK WALLS SHALL HAVE A 1/4" MORTAR COAT ON INSIDE SURFACE.
 WALL THICKNESS IS TO BE 12" IF BOX DEPTH EXCEEDS 12'-0".
 ALL MATERIALS AND CONSTRUCTION ARE TO COMPLY WITH SECTION 720 OF THE SCDOT STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION.
 REINFORCED CONCRETE MAY BE SUBSTITUTED FOR BRICK WALLS. REINFORCING TO BE #4 BARS @ 12" E.W.



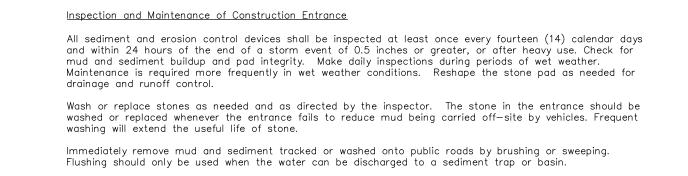




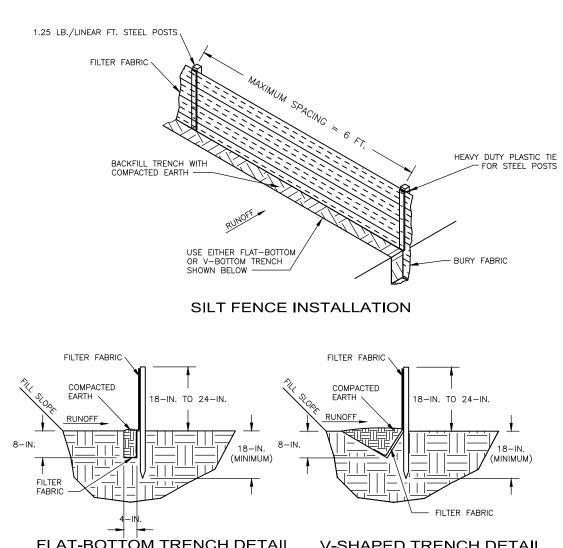
Repair any broken pavement immediately.



CONCRETE WASHOUT

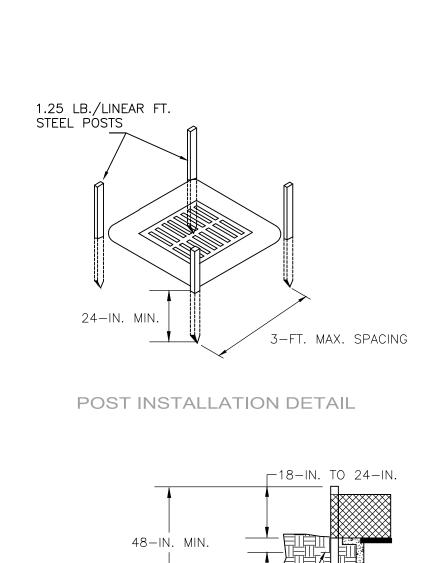


NOT TO SCALE



FLAT-BOTTOM TRENCH DETAIL V-SHAPED TRENCH DETAIL

SILT FENCE



8-IN. MIN.-BURY MINIMUM OF 12-IN FILTER FABRIC

FILTER FABRIC INSTALLATION FILTER FABRIC BURIAL DETAIL 7 TYPE A - FILTER FABRIC INLET PROTECTION

NOT TO SCALE

ATTACH FILTER FABRIC TO

POSTS WITH STAPLES OR TIES SPACED 6-IN. APART MAX.

Use filter fabric that conforms to SCDOT standard specifications for highway construction (latest edition). Refer to the silt fence geotextile fabrics Approval Sheet #34. Use steel posts that meet the following minimum physical requirements: Be composed of high strength steel with minimum yield strength of 50,000 psi. Have a standard "T" section with a nominal face width of 1.38—inches and nominal "T" length of 1.48—inches.

Weigh 1.25 pounds per foot $(\pm 8\%)$. Be painted with a water based baked enamel paint.

appropriate permanent stabilization methods to stabilize bare areas around the inlet.

Attach fabric to metal posts with heavy—duty plastic ties.

cavate a trench 6—inches wide and 6—inches deep around the outside perimeter of the inlet unless the fabric is pneumatically installed. Extend the filter fabric a minimum of 12-inches into the trench. Backfill the trench with soil or crushed stone and compact over the filter fabric unless the fabric is pneumatically installed. Use steel posts with a minimum post length of 60-inches consisting of standard "T" sections with a weight of 1.25 pounds per foot (±8%).

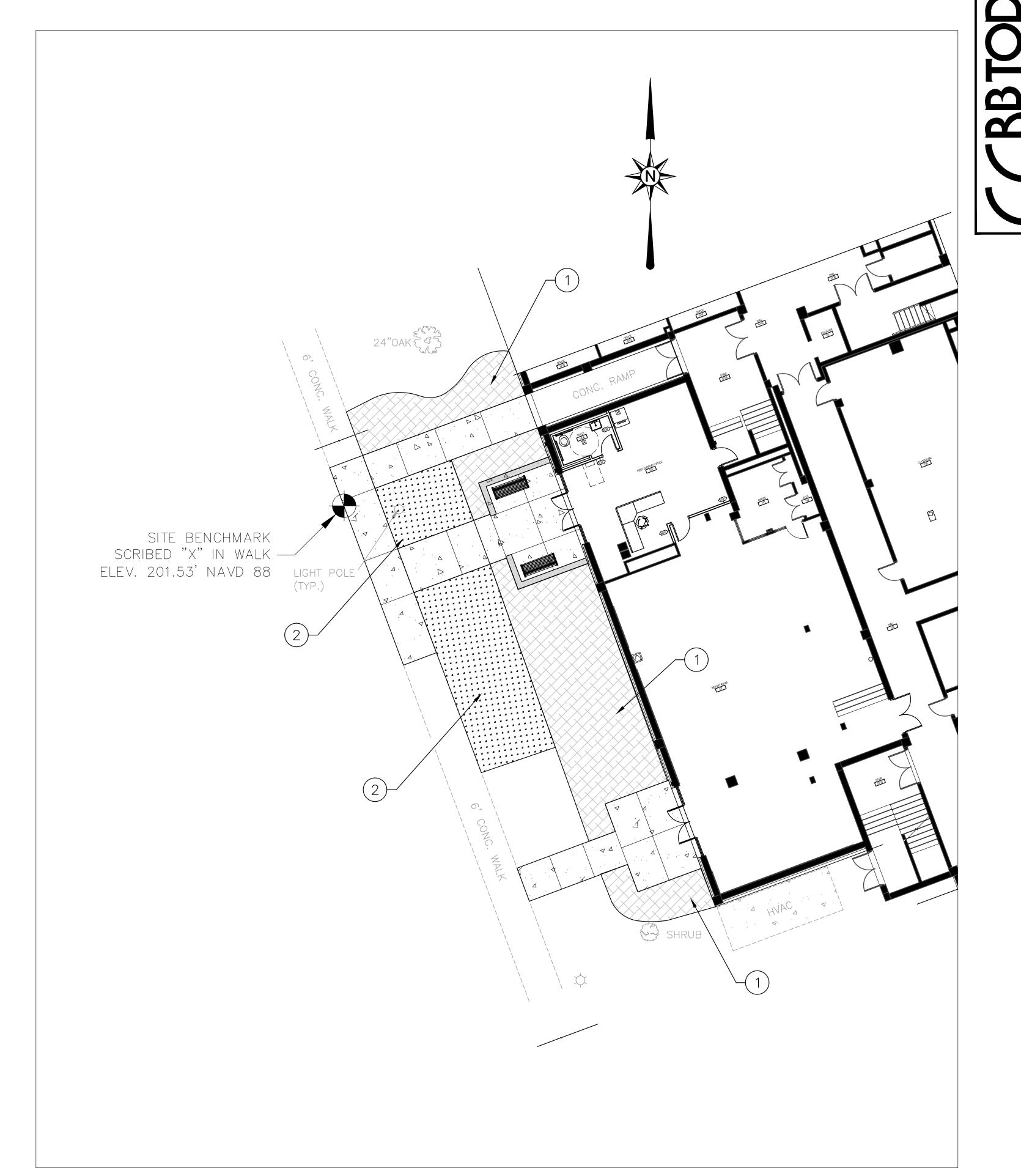
Install the filter fabric to a minimum height of 24—inches above grade. Space the steel posts around the perimeter of the inlet a maximum of 3—feet apart and drive them into the ground a minimum of 24—inches. Cut the filter fabric from a continuous roll to the length of the protected area to avoid the use of joints. When joints are necessary, wrap filter fabric together only at a support post with both ends securely fastened to the post, with a minimum 6—inch overlap. Attach fabric to steel posts with heavy—duty plastic ties.

Attach at least four (4) evenly spaced ties in a manner to prevent sagging or tearing of the fabric. In all cases, affix ties in no less than

material and sediment, and dispose of them properly. Grade the disturbed area to the elevation of the drop inlet structure crest. Use

Inspection and Maintenance All sediment and erosion control devices shall be inspected at least once every fourteen (14) calendar days and within 24 hours of the end of a storm event of 0.5 inches or greater. If the fabric becomes clogged, it should be replaced. Sediment should be removed when it reaches approximately 1/3 the height of the fence. Take care not to damage or undercut fabric when removing sediment.If a sump is used, sediment should be removed when it fills approximately 1/3 the depth of the hole. Maintain the pool area, always providing adequate sediment storage volume for the next storm. Storm drain inlet protection structures should be removed only after the disturbed areas are permanently stabilized. Remove all construction





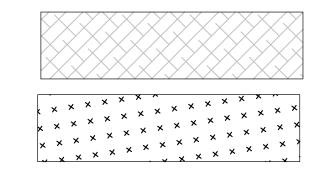
KEY NOTES

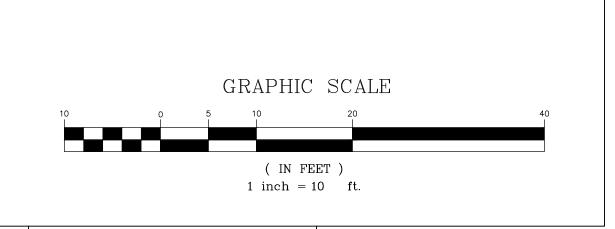
- (1.) NEW 2" THICK HARDWOOD MULCH
- (2.) NEW COMMON BERMUDA SOD AS REQUIRED FOLLOWING CONSTRUCTION

LANDSCAPE LEGEND

PROPOSED MULCH

PROPOSED SOD

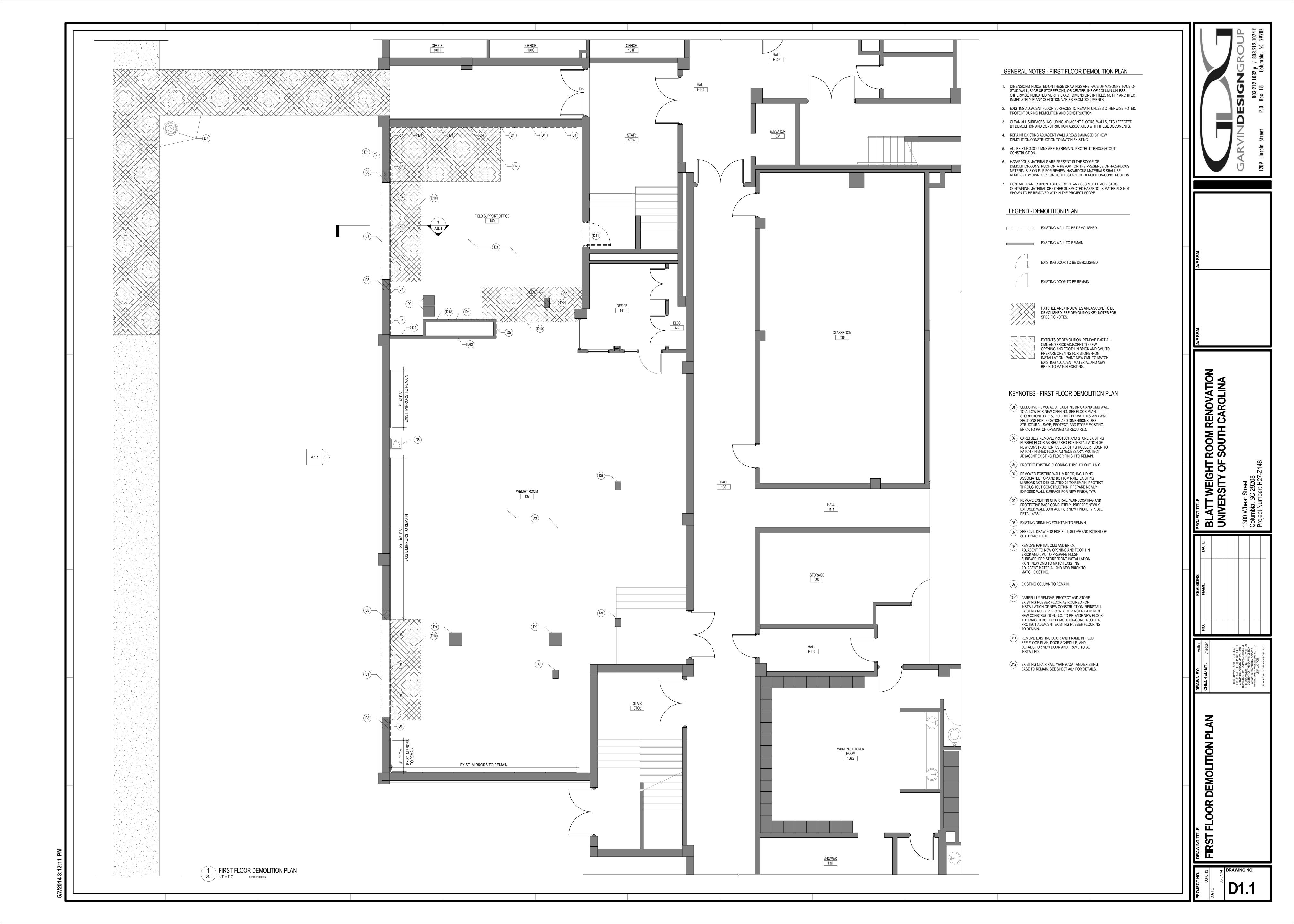


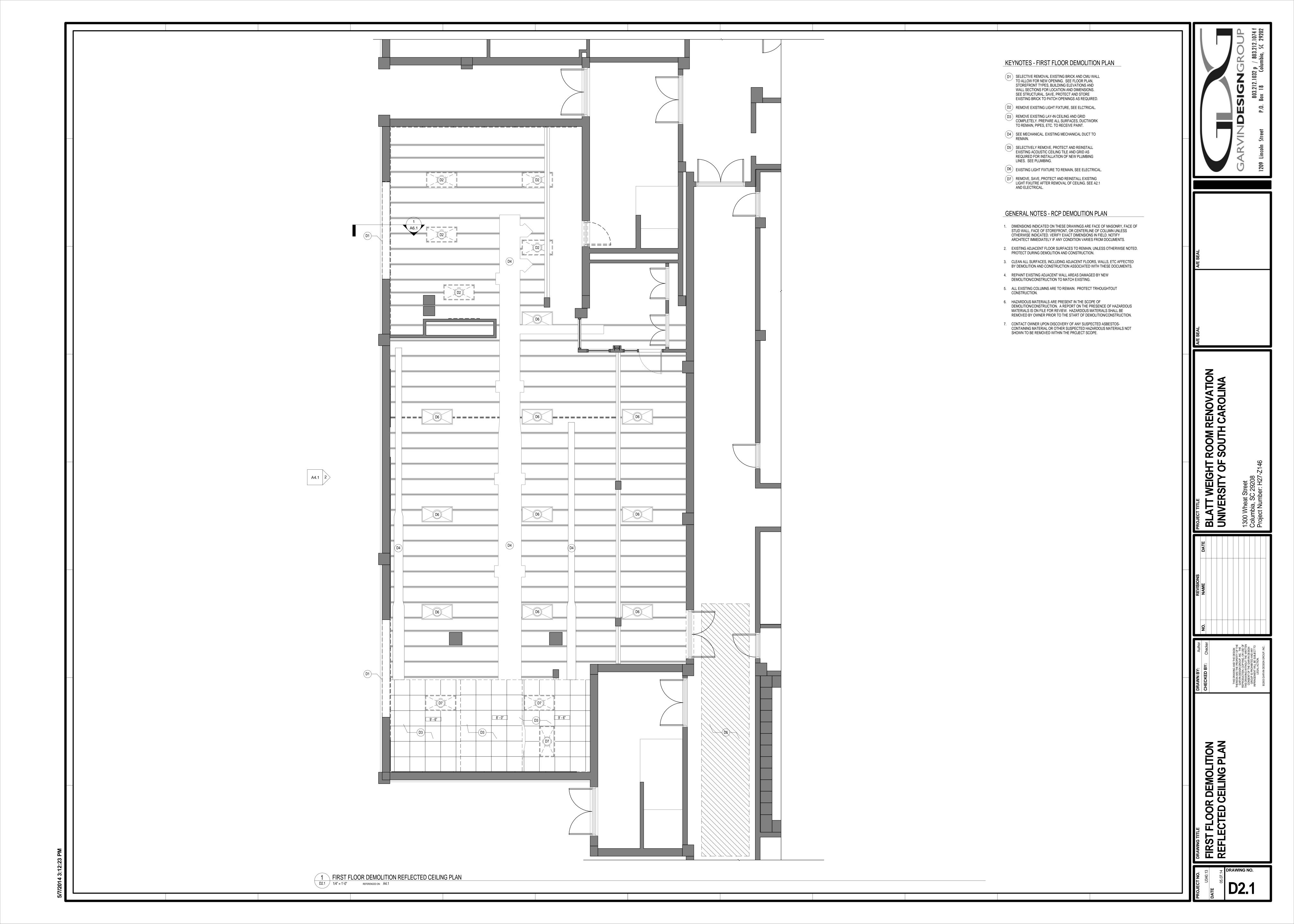


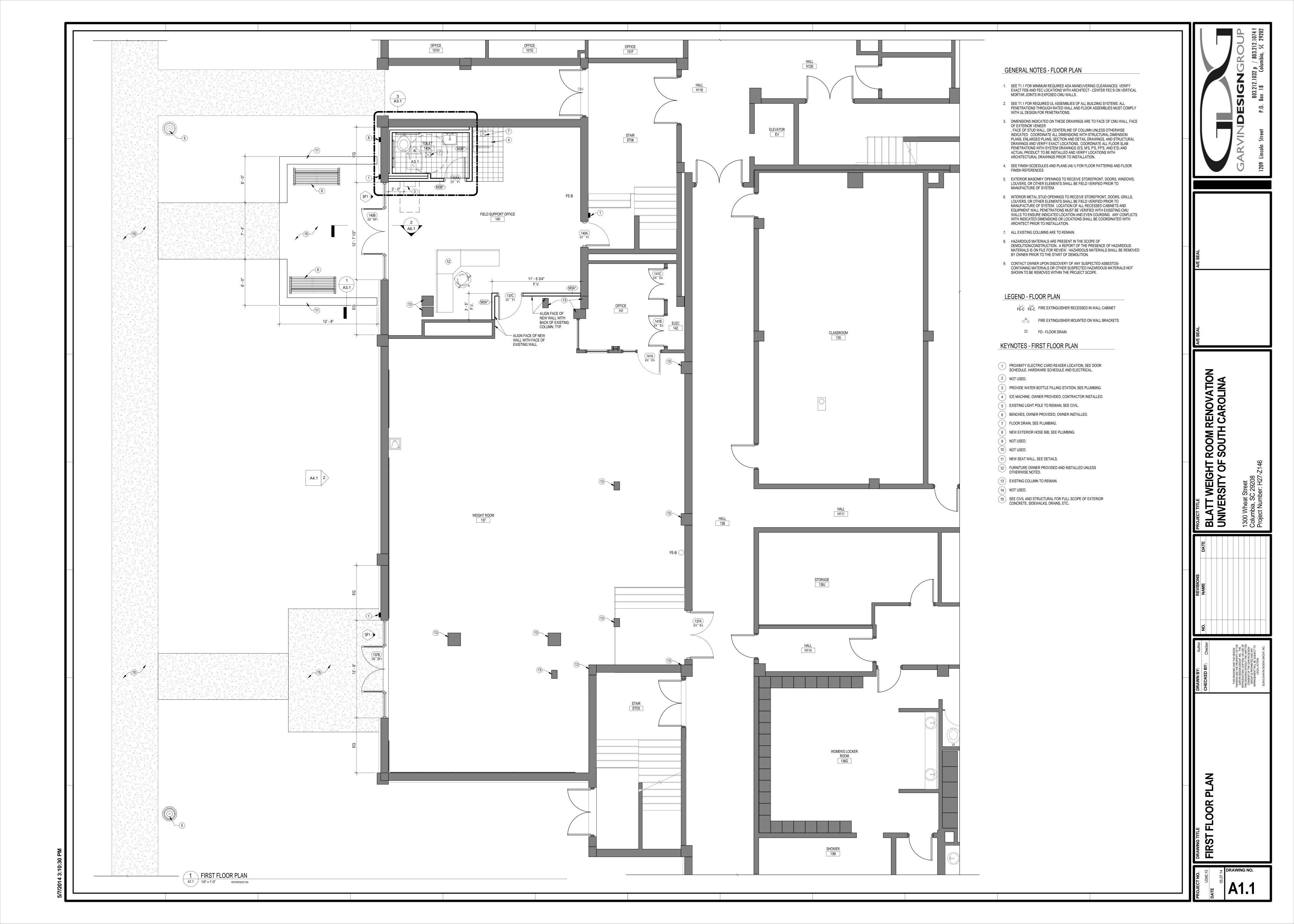
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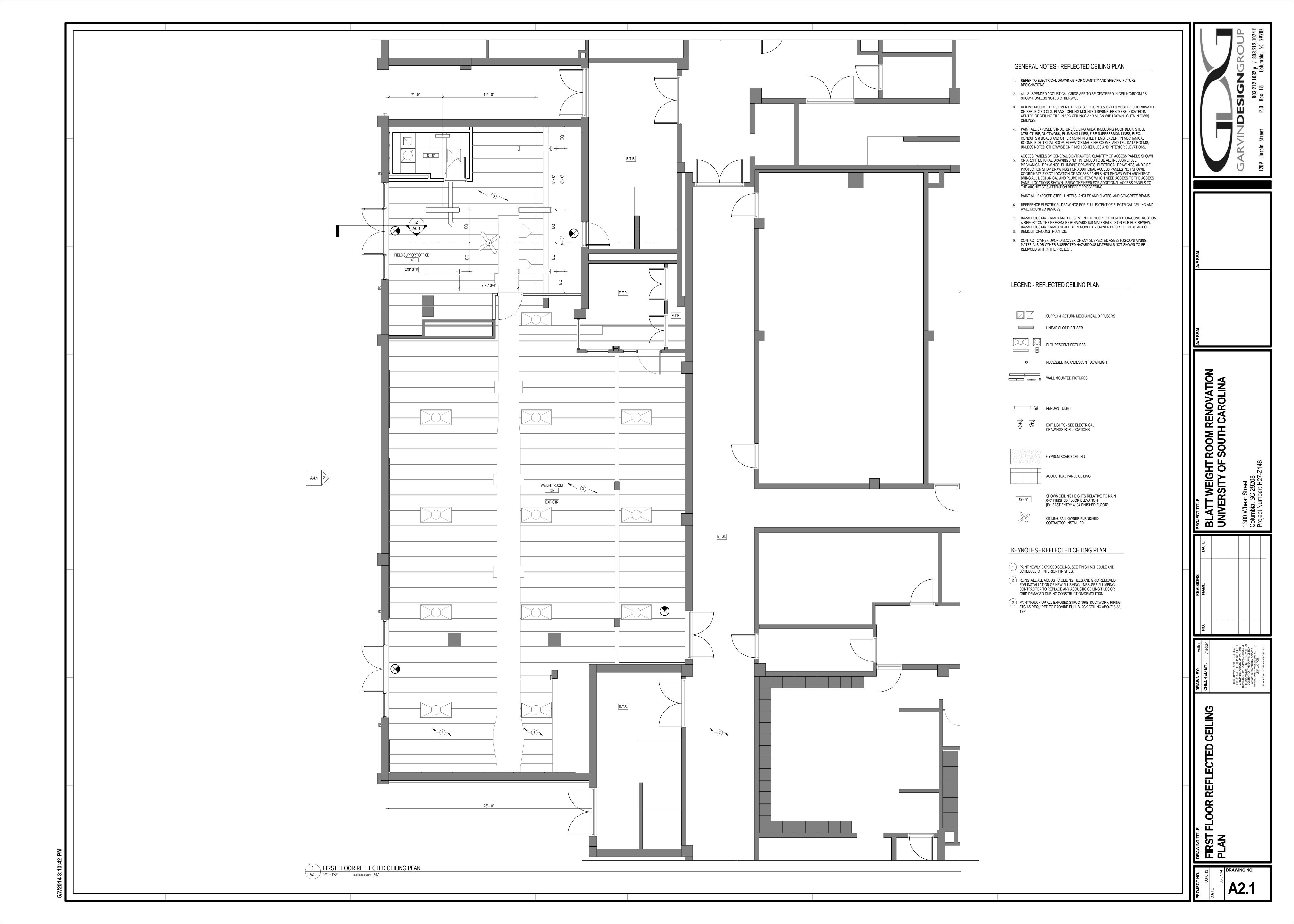
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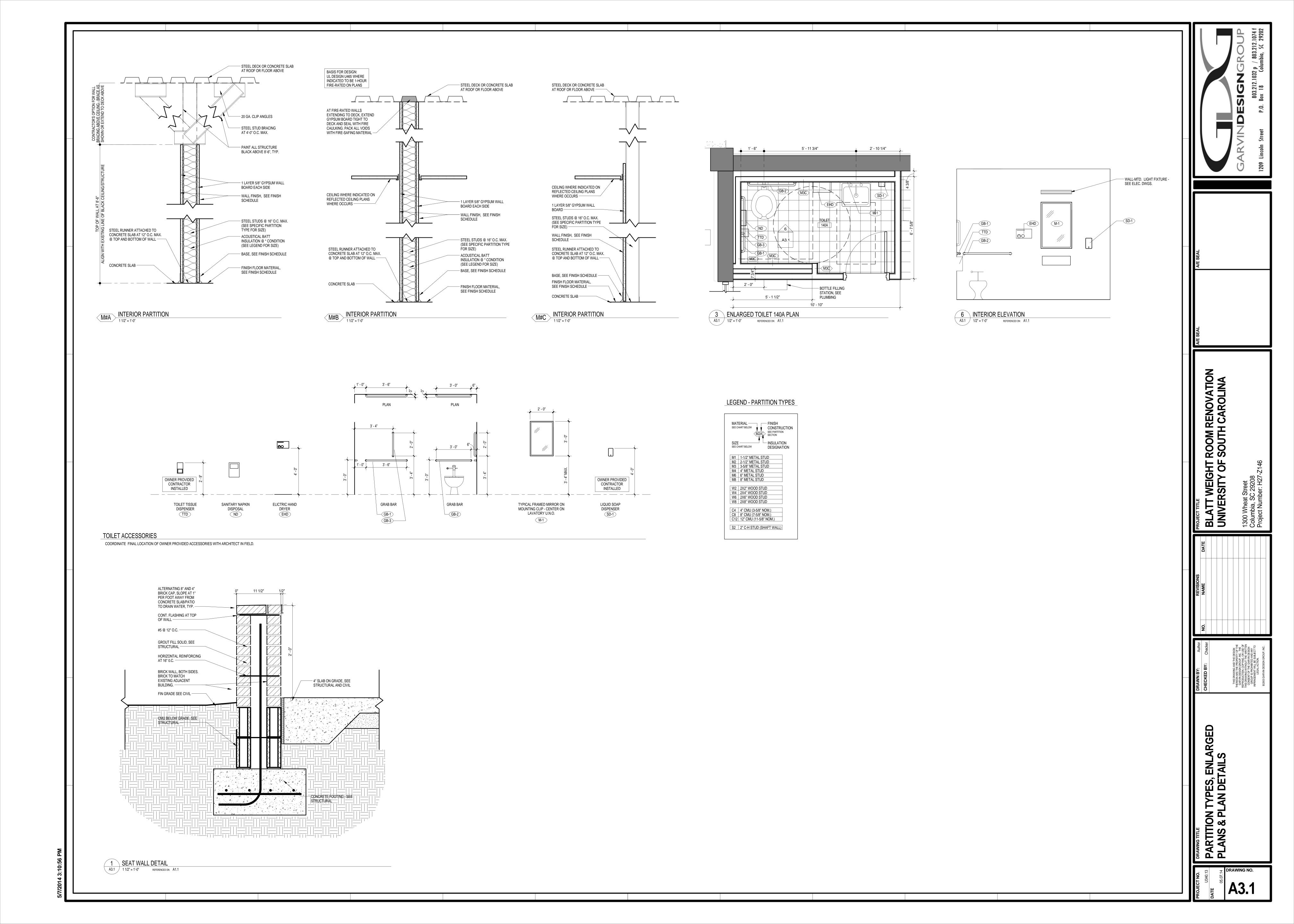
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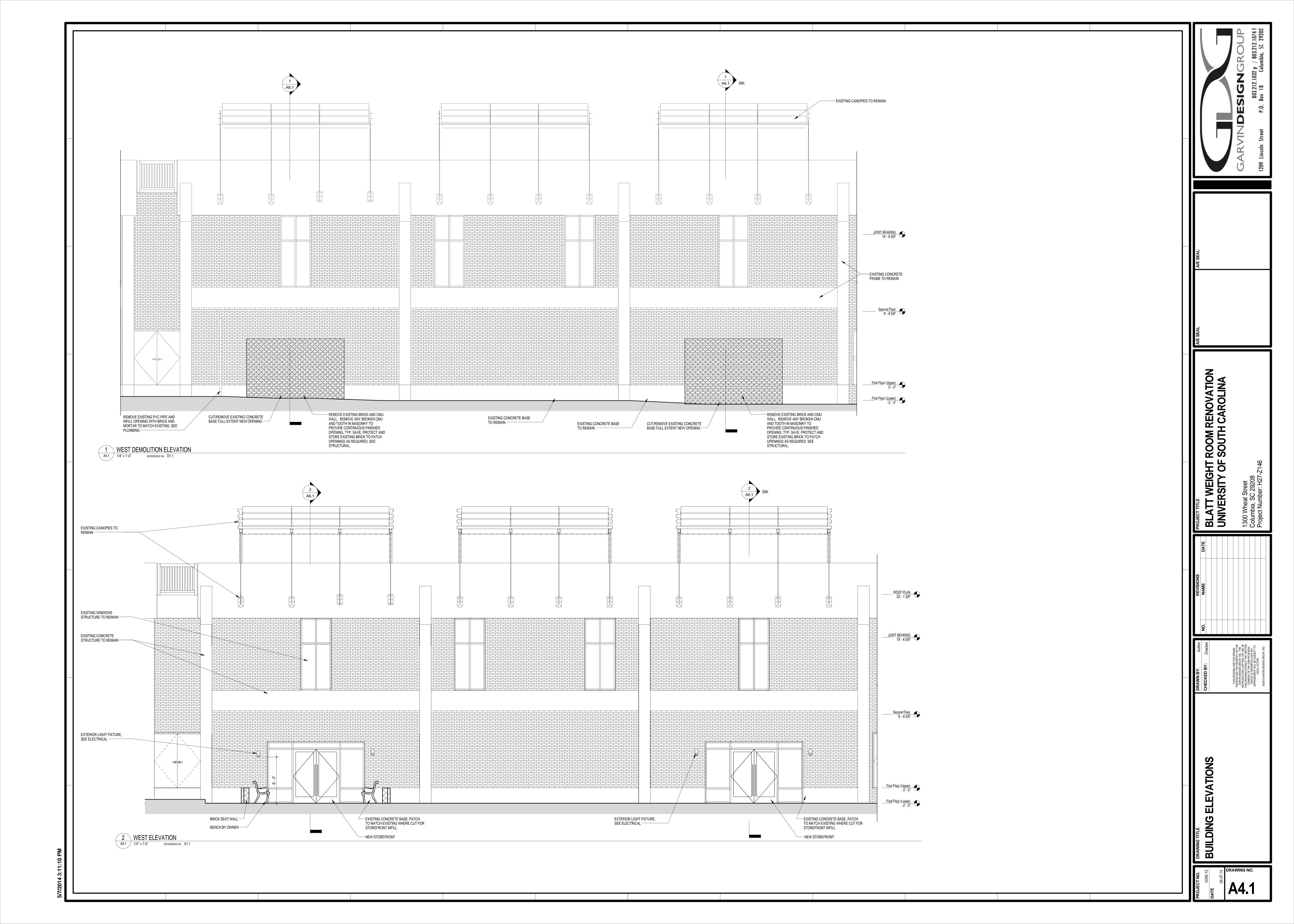


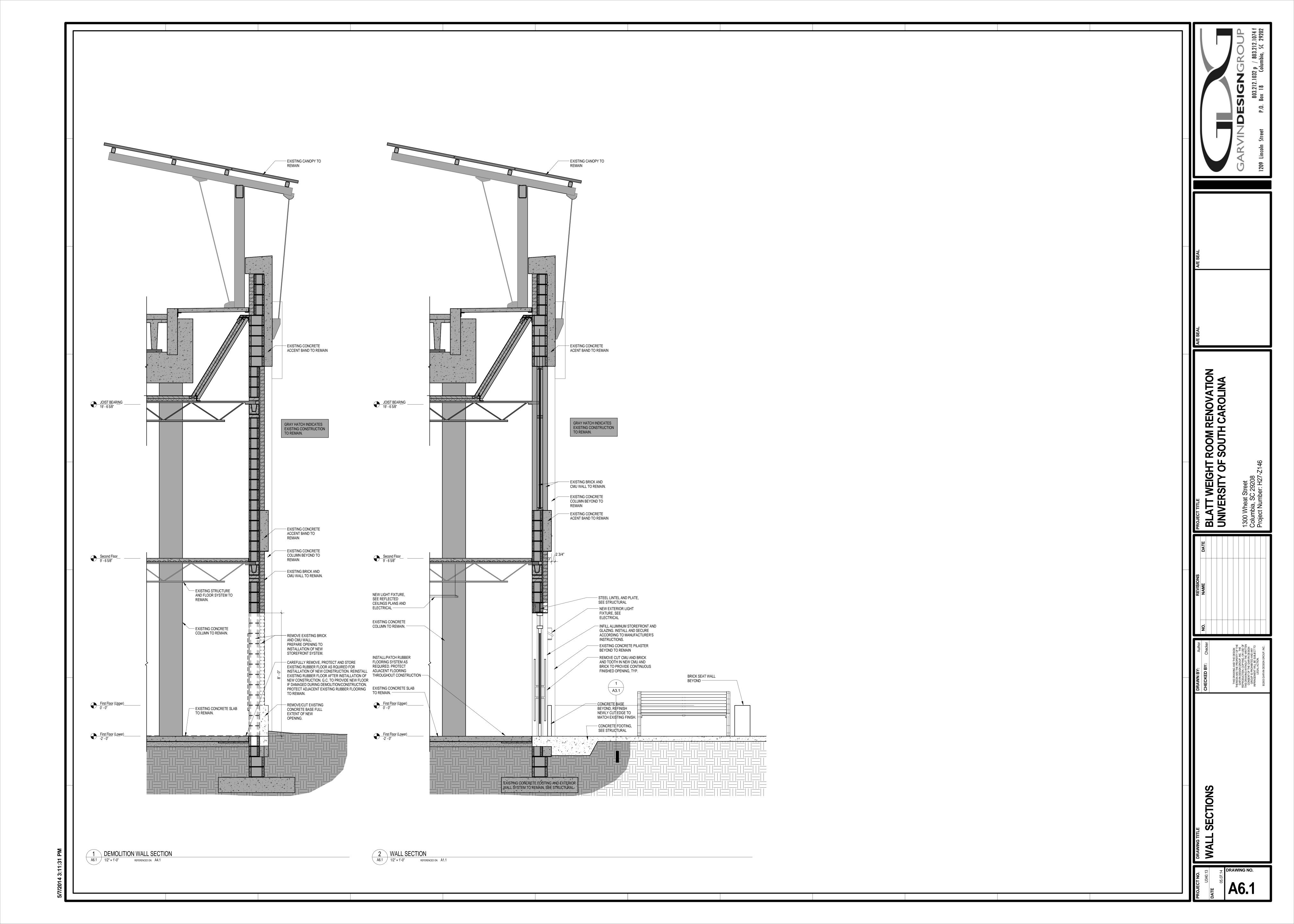












					DOOR S	CHEDULE					
		DO	OR								
Mark	WIDTH	HEIGHT	FRAME TYPE	DOOR TYPE	FRAME TYPE	HEAD	JAMB	SILL	RATING	HDWR	REMARKS
137A	6' - 0"	7' - 0"		EX	EX						
137B	6' - 0"	7' - 0"		D2	SF1						1,2,3,5
137C	3' - 0"	7' - 0"		D1	F1	H1	J1				
140A	3' - 0"	7' - 0"		D1	F1	H2	J2		20		1,2
140AA	2' - 8"	7' - 0"		D1	F1	H1	J1				
140B	6' - 0"	7' - 0"		D2	SF1						1,2,3,5
141A	3' - 0"	7' - 2"		EX	EX						
141B	4' - 0"	7' - 0"		EX	EX						
141C	4' - 0"	7' - 0"		EX	EX						

DOOR SCHEDULE REMARKS

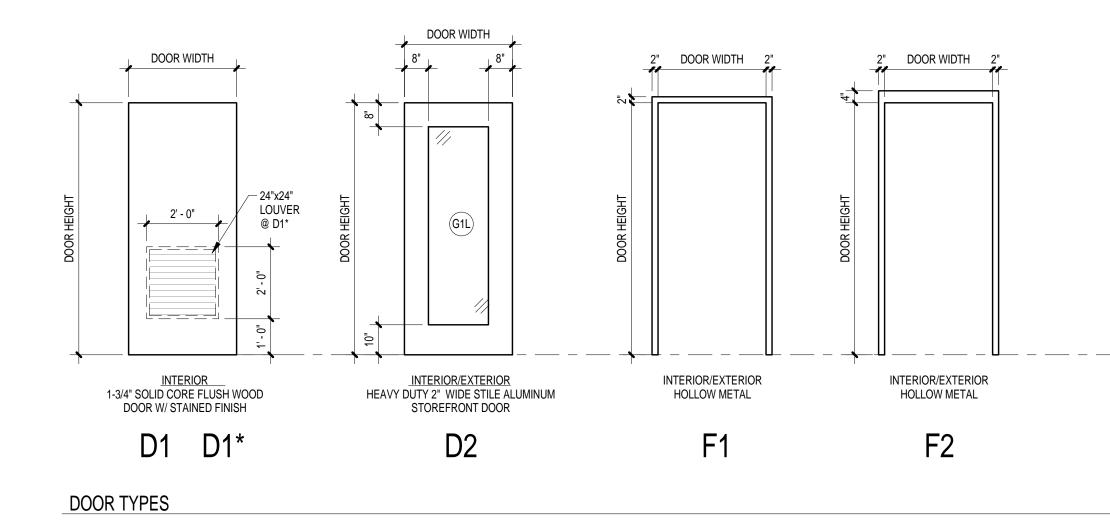
1. DOOR TO RECEIVE ELETRIC POWERED PROXIMITY CARDREADER HARDWARE DEVICE, SEE ELECTRICAL DRAWINGS.

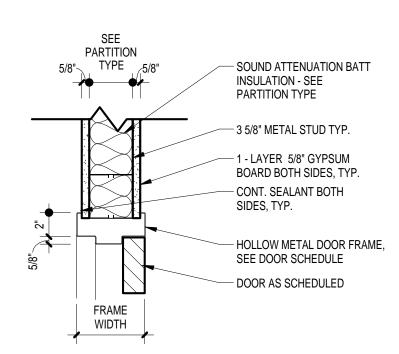
2. FRAME SHALL BE PREPARED FOR VON DUPRIN POWER TRANSFER HINGE AND REQUEST TO EXIT DEVICE (REX), 6 CONDUCTOR TYPE. SEE ELECTRICAL DRAWINGS FOR THESE CONDITIONS. PROVIDE A STEEL ELECTRICAL BACKBOX WITH 1/2" CONDUIT KNOCKOUT TO HOUSE POWER TRANSFER HINGE. BACKBOX SHALL BE FACTORY MOUNTED TO THE FRAME PRIOR TO ARRIVAL AT JOBSITE. NOTE THAT DOUBLE DOOR INSTALLATIONS REQUIRE TWO POWER TRANSFER HINGES.

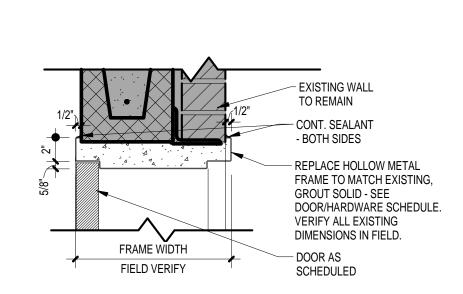
3. SEE 7 SERIES SHEETS FOR HOLLOW METAL, CURTAIN WALL (CW) AND STOREFRONT (SF & ISF) FRAME TYPES AND DETAILS.

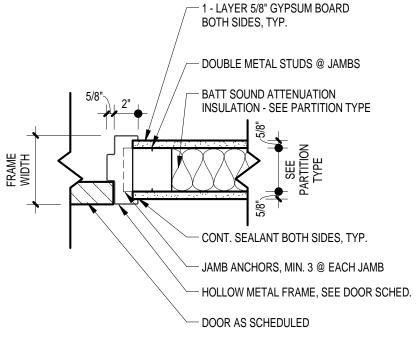
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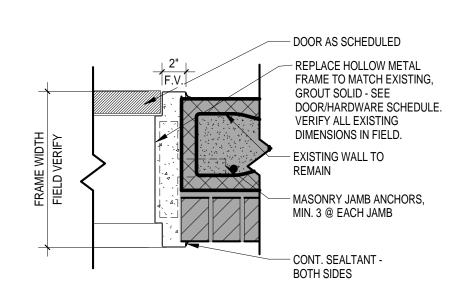
5. EMERGENCY EGRESS PUSH BAR HARDWARE.







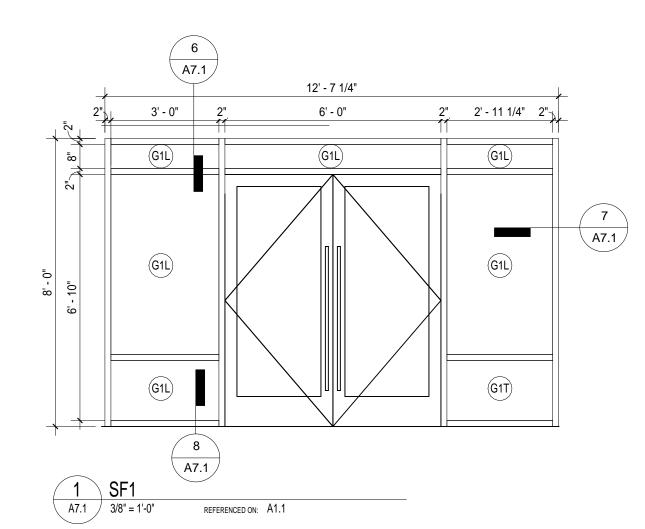


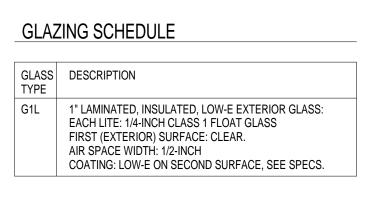


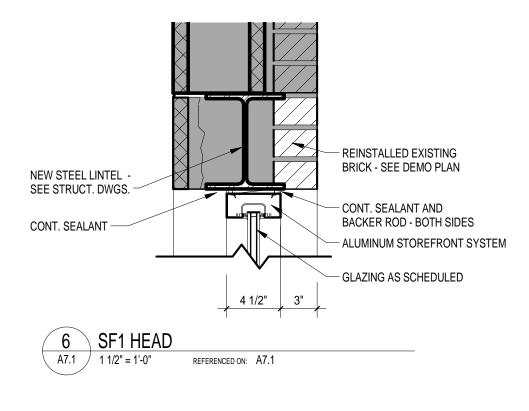


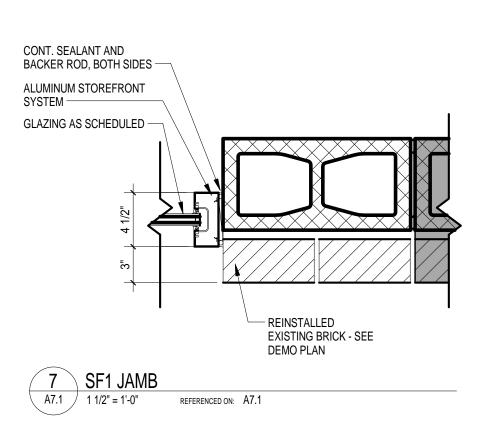


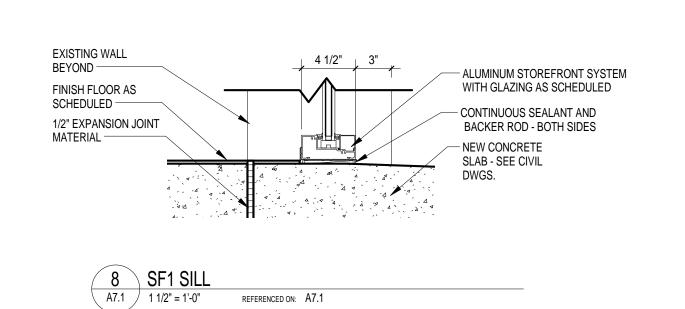


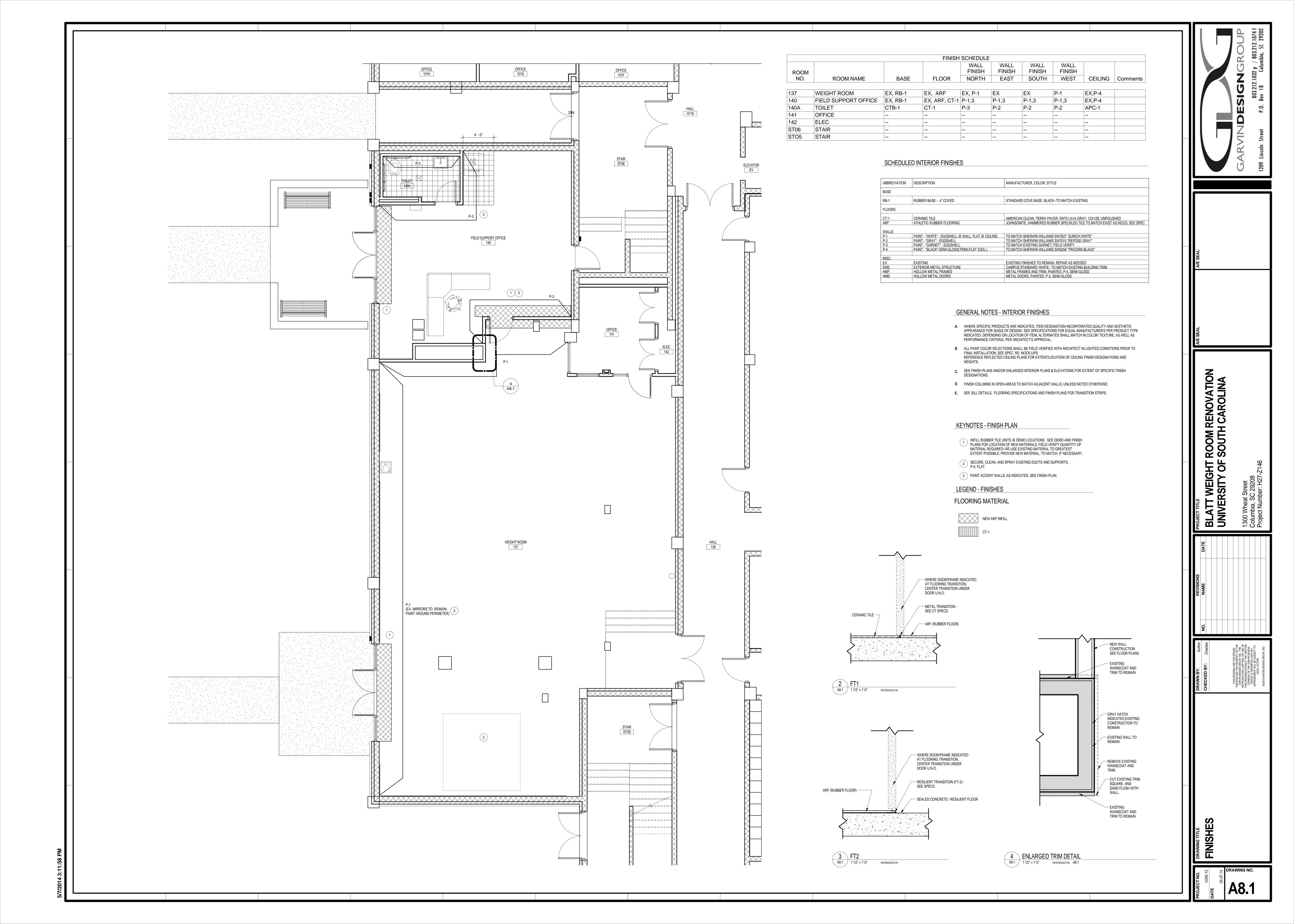












GENERAL NOTES:

A. LIVE LOADS:

ASSEMBLY AREAS...... B. DEAD LOADS: ACTUAL WEIGHTS OF MATERIALS, EQUIPMENT, AND ETC.

C. ROOF SNOW LOADS: (1) GROUND SNOW LOAD Pg = 10 PSF

D. WIND LOAD: (1) BASIC WIND SPEED 115 MPH (2) RISK CATEGORY II

> (3) WIND EXPOSURE C (4) INTERNAL PRESSURE COEFFICIENT GCpi = +/- 0.00 (5) DESIGN PRESSURES FOR COMPONENTS AND CLADDING

ROOF LOAD: CORNER ZONE OR ZONE 3 USE +/- 57.0 PSF EDGE/RIDGE ZONES OR ZONE 2 USE +/- 44.0 PSF

INTERIOR ZONE OR ZONE 1 USE +/- 28.5 PSF E. SEISMIC DESIGN DATA (1) RISK CATEGORY II

(2) MAPPED SPECTRAL RESPONSE ACCELERATIONS: $S_s = 0.55$; $S_1 = 0.15$

(3) SITE CLASS C

PROCEDURE

(4) SPECTRAL RESPONSE COEFFICIENTS: $S_{DS} = 0.43$; $S_{D1} = 0.16$ (5) SEISMIC DESIGN CATEGORY C

(6) BASIC STRUCTURAL SYSTEM AND SEISMIC RESISTING SYSTEM, MOMENT RESISTING FRAME SYSTEM WITH ORDINARY STEEL MOMENT FRAMES

(7) DESIGN BASE SHEAR: V = 3.3 KIPS (8) SEISMIC RESPONSE COEFFICIENT: Cs = 0.084 (9) RESPONSE MODIFICATION FACTOR: R = 3 1/2 (10) ANALYSIS PROCEDURE - EQUIVALENT LATERAL FORCE

2. BUILDING CODE - INTERNATIONAL BUILDING CODE 2012 3. CAST-IN-PLACE CONCRETE COMPRESSIVE STRENGTH AT 28 DAYS: NORMAL WEIGHT (150 PCF) 4000 PSI FOR ALL CONCRETE. LIMIT FLY ASH CONTENT TO 25% MAXIMUM BY WEIGHT.

4. ALL REINFORCING BARS TO HAVE A MINIMUM YIELD STRENGTH OF 60,000 PSI.

CONCRETE FORMWORK: A. ALL FORMWORK SHALL BE DESIGNED, ERECTED, SUPPORTED, BRACED, AND MAINTAINED ACCORDING TO ACI STANDARD 347

RECOMMENDED PRACTICE FOR CONCRETE FORMWORK. B. RESPONSIBILITY: THE DESIGN, CONSTRUCTION, AND SAFETY OF ALL FORMWORK SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. ALL FORM, SHORES, BACKSHORES, FALSEWORK, BRACING, AND OTHER TEMPORARY SUPPORTS SHALL BE ENGINEERED TO

SUPPORT ALL LOADS IMPOSED INCLUDING THE WET WEIGHT OF CONCRETE, CONSTRUCTION EQUIPMENT, LIVE LOAD, LATERAL LOADS DUE TO WIND AND WET CONCRETE IMBALANCE. SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS. C. TOLERANCE: UNLESS SPECIFIED OTHERWISE, ALL TOLERANCES FOR CONCRETE FORMWORK SHALL CONFORM TO ACI STANDARD 117,

STANDARD TOLERANCE FOR CONCRETE CONSTRUCTION AND MATERIALS. D. ALL PERMANENTLY VISIBLE EDGES OF CONCRETE SHALL HAVE A

3/4" CONTINUOUS CHAMFER. THIS INCLUDES ALL SLABS, BEAMS, COLUMNS, AND WALLS. 6. CHECK WITH VARIOUS TRADES FOR SLEEVES, OPENINGS, CONDUITS. ETC. BEFORE POURING CONCRETE.

7. VERIFY ALL ELEVATIONS AND DIMENSIONS WITH EXISTING CONDITIONS. 8. SEE ARCHITECTURAL DRAWINGS FOR MISCELLANEOUS DETAILS NOT SHOWN ON STRUCTURAL DRAWINGS.

9. PROVIDE AND INSTALL ALL TEMPORARY BRACING AS REQUIRED FOR SAFETY / STABILITY OF THE STRUCTURE UNTIL STRUCTURE IS COMPLETE. 10. STRUCTURAL STEEL:

A. STEEL SHALL CONFORM TO THE FOLLOWING ASTM SPECIFICATIONS, UNLESS NOTED OTHERWISE ON PLANS: a. ALL ROLLED ANGLES, CHANNELS, PLATES, BARS, ETC A36 (Fy=36ksi).

b. ALL ROLLED W SHAPES, BEAMS, COLUMNS, ETC A992 (Fy=50ksi). c. STRUCTURAL STEEL PIPE ----- A53 (Fy=35ksi) d. STRUCTURAL STEEL TUBE ----- A500 (Fy=46ksi)

B. BOLTED CONNECTIONS: a. ALL CONNECTIONS (UNLESS NOTED OTHERWISE) SHALL BE MADE WITH 3/4" DIAMETER A-325X OR A-490X BOLTS. ALL FIELD BOLTED CONNECTIONS SHALL BE LOAD INDICATOR/ TENSION CONTROL TYPE BOLTS. UNLESS NOTED OTHERWISE

b. OVERSIZE OR LONG SLOTTED HOLES ARE NOT ALLOWED UNLESS SHOWN ON STRUCTURAL PLANS. c. THE SHOP DRAWINGS SHALL CLEARLY INDICATE THE TYPE OF BOLTS USED IN EACH CONNECTION AND THE ALLOWABLE VALUES USED FOR THE VARIOUS BOLT TYPES.

d. THE FOLLOWING MINIMUM STANDARDS APPLY: (1) MINIMUM PLATE THICKNESS = 3/8" (2) MINIMUM BOLT DIAMETER = 3/4" (3) MINIMUM WELD = 3/16" THICK THROAT

ELEVATION, REINFORCING, MEMBER SIZE, ETC.

(4) MINIMUM DESIGN LOAD ON ANY CONNECTION = 15kips C. WELDED CONNECTIONS: a. ALL SHOP AND FIELD WELDING SHALL CONFORM TO AWS STRUCTURAL WELDING CODE-STEEL, ANSI/AWS - D1.1

b. MINIMUM WELD = 3/16" THICK THROAT 11. DRAWINGS INDICATE GENERAL ARRANGEMENT AND DIMENSIONS AND ARE, GENERALLY, DRAWN TO SCALE. HOWEVER, SCALE DIMENSIONS SHALL NOT BE USED. OBTAIN DIMENSIONS FROM ARCHITECT, WHEN NOT GIVEN IN FIGURES. REFER TO THE ARCHITECT AND ENGINEER IF ANY INCONSISTENCIES ARE FOUND. 12. WHERE CONFLICTS EXIST BETWEEN STRUCTURAL AND ARCHITECTURAL, USE STRUCTURAL FOR ITEMS RELATING TO STRUCTURAL STRENGTH SUCH AS

VERTICAL REINFORCING IN CONCRETE WALLS, FOOTING SIZE, FOOTING

SOIL NOTES:

1. FOOTINGS DESIGNED FOR AN ASSUMED SOIL BEARING VALUE OF 2000 PSF. GEOTECHNICAL ENGINEER/TESTING LABORATORY SHALL VERIFY BEARING VALUE PRIOR TO FOOTING PLACEMENT.

2. BEFORE ANY CONSTRUCTION, THE ENTIRE SITE AREA SHALL BE STRIPPED OF ANY ROOT SYSTEMS, SURFACE VEGETATION, ORGANIC SURFACE SOILS, EXISTING CONCRETE SLABS, FOOTINGS, BURIED FUEL TANKS, UNDERGROUND UTILITIES, AND ANY OTHER UNSUITABLE NEAR SURFACE MATERIALS. ALSO, ALL EXISTING MATERIAL BENEATH THE BUILDING AREAS SHALL BE COMPLETELY REMOVED TO A DEPTH DETERMINED BY THE TESTING LABORATORY NECESSARY TO OBTAIN THE REQUIRED BEARING VALUE. THE UNDERCUTTING SHALL EXTEND AT LEAST FIVE FEET OUTSIDE THE BUILDING AREA. AFTER STRIPPING AND UNDERCUTTING, THE EXPOSED SUBGRADE SHALL BE EVALUATED BY THE GEOTECHNICAL ENGINEER TO CONFIRM THAT ALL UNSUITABLE MATERIALS HAVE BEEN REMOVED. THE EXPOSED SUBGRADE SHALL THEN BE DENSIFIED, TO 95% OF STANDARD PROCTOR DENSITY IN THE PRESENCE OF THE GEOTECHNICAL ENGINEER, WITH APPROVED

3. ALL EXISTING FOUNDATIONS, UTILITIES, TANKS, ETC. WITHIN THE PROPOSED BUILDING AREA SHALL BE REMOVED. IF EXISTING UTILITIES, FOUNDATIONS, TANKS, ETC. ARE LOCATED BELOW THE PROPOSED FOOTINGS, THEY SHALL BE BACKFILLED WITH A WELL

COMPACTED CRUSHED STONE. 4. ONCE THE EXPOSED SUBGRADE AREAS HAVE BEEN SATISFACTORILY STABILIZED/DENSIFIED, THE PLACED FILL SOILS SHALL BE COMPACTED IN LIFTS NOT EXCEEDING EIGHT (8") INCHES IN LOOSE THICKNESS. AN IN PLACE DRY DENSITY OF APPROXIMATELY NINETY FIVE PERCENT (95%) OF THE MAXIMUM STANDARD PROCTOR DENSITY (ASTM D-698) SHALL BE OBTAINED IN EACH LIFT. ALL FILL MATERIAL SHALL BE TESTED BY LABORATORY PERSONNEL TO VERIFY THEIR SUITABILITY FOR USE AS A STRUCTURAL FILL.

5. THE TESTING LABORATORY SHALL DO A SUFFICIENT NUMBER OF IN PLACE DENSITY TESTS TO CONFIRM THAT THE REQUIRED DEGREE OF COMPACTION IS OBTAINED.

6. EACH FOOTING EXCAVATION SHALL BE THOROUGHLY TAMPED USING A MECHANICAL TAMPER BEFORE PLACING ANY STEEL OR CONCRETE. ALL SOFT, LOOSE, OR OTHERWISE QUESTIONABLE SOILS SHALL BE STABILIZED BY COMPACTING IN PLACE OR BY REMOVING AND REPLACING SUCH UNSUITABLE SOILS. IN AREAS THAT ARE DIFFICULT TO STABILIZE, A COARSE CRUSHED AGGREGATE SHALL BE USED TO STABILIZE THE EXCAVATIONS. TESTING LABORATORY SHALL VERIFY THAT THE FOOTING EXCAVATIONS HAVE BEEN COMPACTED AND

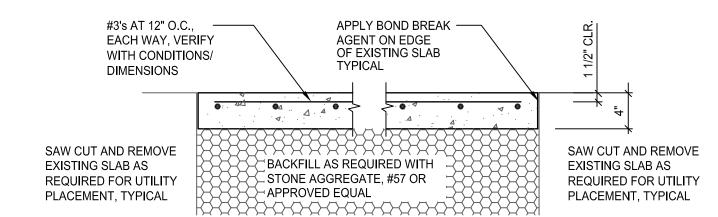
THAT THE BEARING CAPACITY HAS BEEN ACHIEVE. 7. CONTRACTOR SHALL ESTABLISH AND MAINTAIN GOOD SITE DRAINAGE THROUGHOUT CONSTRUCTION.

8. IT IS REQUIRED THAT ALL FOOTINGS BE CONSTRUCTED AS SOON AS POSSIBLE AFTER EXCAVATION TO BEARING SOILS IS COMPLETED. IF THE BEARING SOILS ARE EXPOSED TO SURFACE OR RAIN WATER, THE SOFTENED SOIL SHALL BE THOROUGHLY REMOVED PRIOR TO PLACEMENT OF CONCRETE. IF IT IS ANTICIPATED THAT FOOTING EXCAVATIONS WILL REMAIN EXPOSED FOR MORE THAN 24 HOURS OR IF RAIN IS IMMINENT WHILE BEARING SOILS ARE EXPOSED, A 2 TO 4 INCH THICKNESS OF 2000 PSI MINIMUM STRENGTH CONCRETE MAY BE PLACED OVER BEARING SOILS FOR PROTECTION.

9. IMMEDIATELY PRIOR TO CONSTRUCTING THE FLOOR SLAB OR PAVEMENT BASE COURSE, THE SUBGRADE SHALL BE RECOMPACTED TO REPAIR ANY SUBGRADE SOILS THAT HAVE BEEN DISTURBED DURING CONSTRUCTION. AFTER COMPACTION OF THE SUBGRADE, FIELD DENSITY TESTING AND PROOFROLLING SHALL BE PERFORMED TO EVALUATE THE CONDITIONS OF THE SUBGRADE BEFORE PLACING THE SLAB OR PAVING BASE COURSE.

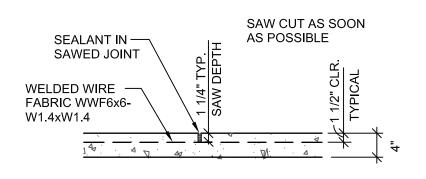
10. THE COMPACTION RECOMMENDATIONS GIVEN ABOVE ALSO APPLY TO BACKFILL FOR UTILITY TRENCHES WITHIN THE BUILDING AND PAVED AREAS. FIELD DENSITY TESTING SHALL BE PERFORMED THROUGHOUT THE BACKFILLING PROCESS TO DOCUMENT THE CONTRACTOR'S COMPACTION PERFORMANCE IN THE UTILITY TRENCH BACKFILL.

11. PROVIDE 4" COMPACTED GRANULAR AGGREGATE BASE BENEATH SLABS.

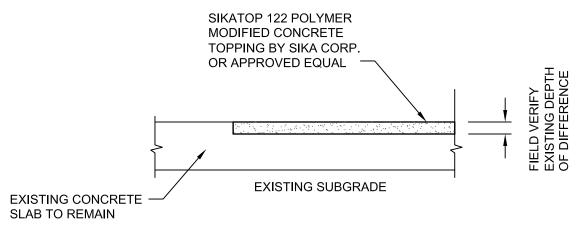


MISCELLANEOUS UTILITY INFILL SLAB

NOT TO SCALE



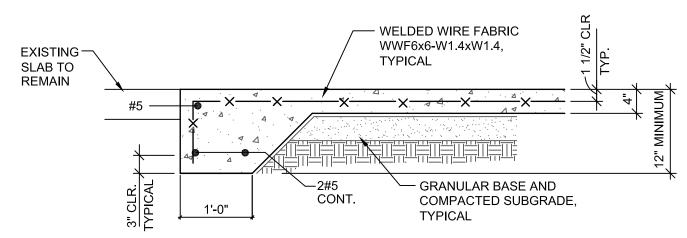
TYPICAL SAW JOINT (S.J.) SCALE: 3/4"=1'-0"



CLEAN AND PREPARE EXISTING CONCRETE TO RECEIVE FILLER/ FOLLOW ALL MANUFACTURER'S RECOMMENDATIONS FOR PREPARATION, PROCEDURES, AND WORKMANSHIP. PROVIDE COURSE AGGREGATE IN THE MIX WHEN DEPTH IS GREATER THAN 1" IN DEPTH PER MANUFACTURER'S RECOMMENDATIONS. EQUAL PRODUCTS SHALL BE SUBMITTED FOR REVIEW.

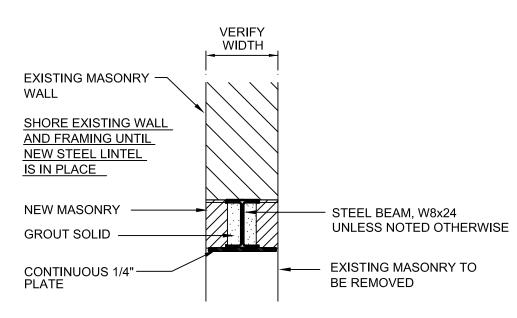
TYPICAL PATCHING AT EXISTING SLABS

SCALE: 3/4" = 1'-0"



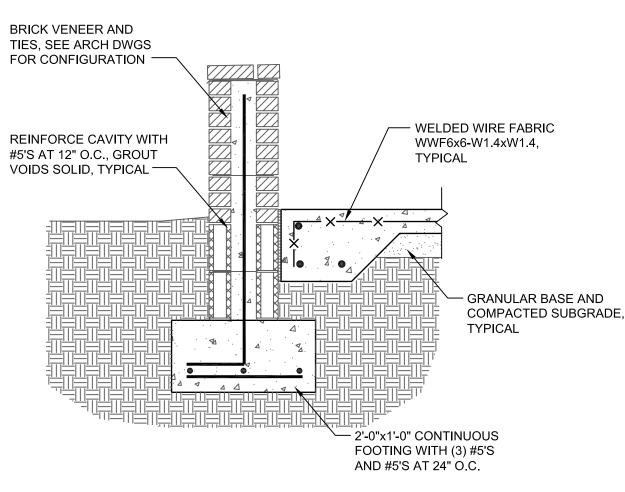
TYPICAL PERIMETER TOE FOOTING

SCALE: 3/4"=1'-0"

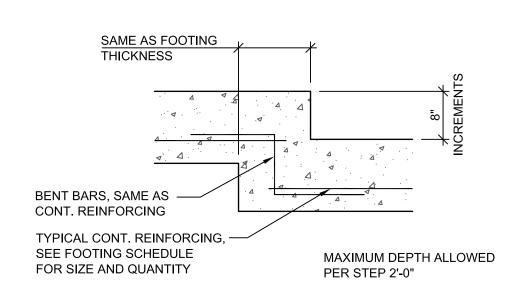


NOTE: PROVIDE BEARING PLATES @ EACH END OF NEW LINTEL, 7"x1/4"x7" WITH (2) 1/2" ANCHORS. REMOVE PORTION OF MASONRY, TO SET PLATE, AND FILL SOLID UNDER PLATE W/ NON-SHRINK GROUT, REPAIR MASONRY AFTER PLACEMENT.

NEW LINTEL IN EXISTING WALL NOT TO SCALE



TYPICAL SEAT WALL SCALE: 3/4"=1'-0"



TYPICAL STEPPED FOOTING DETAIL

SCALE: 3/4"=1'-0"

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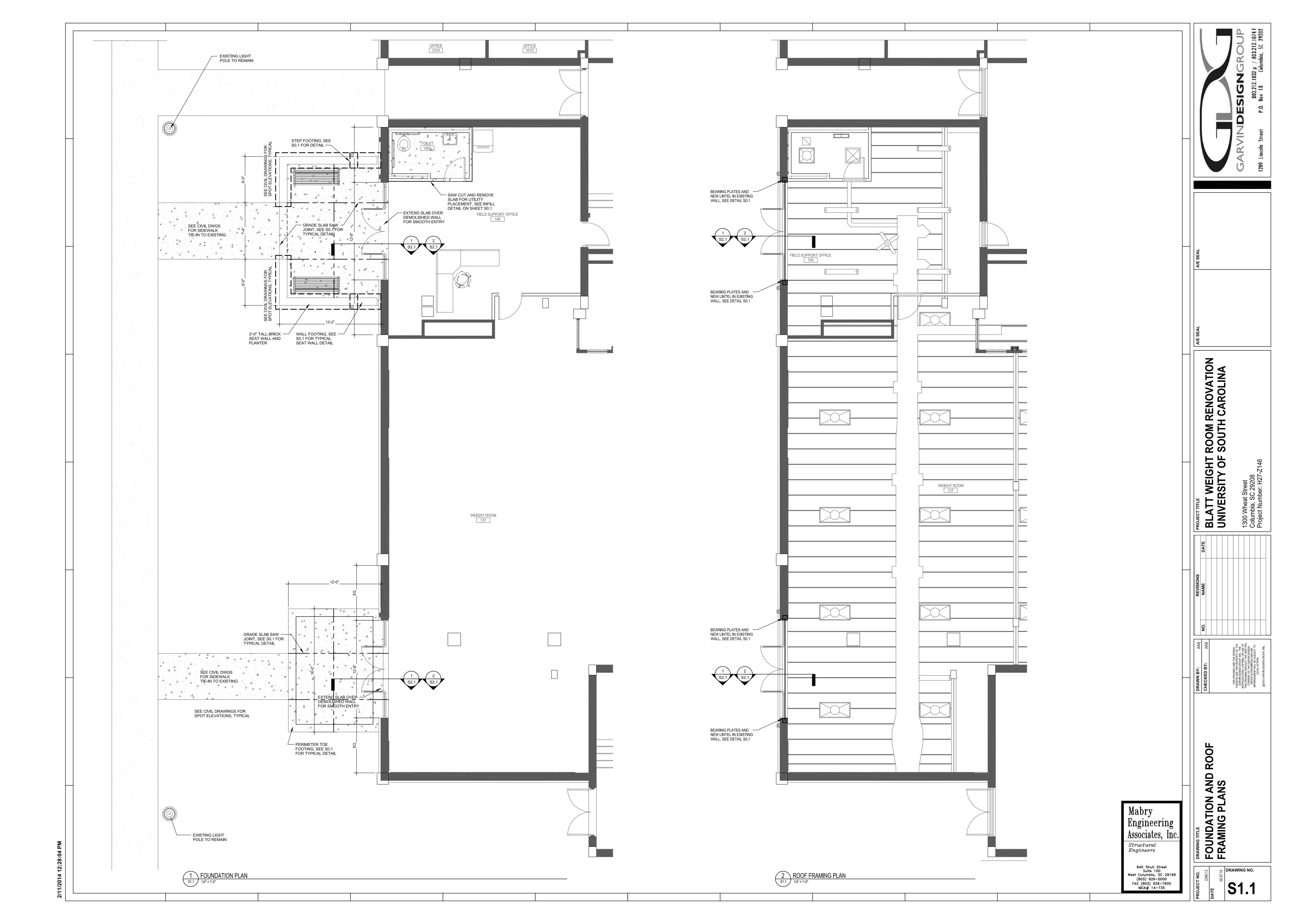
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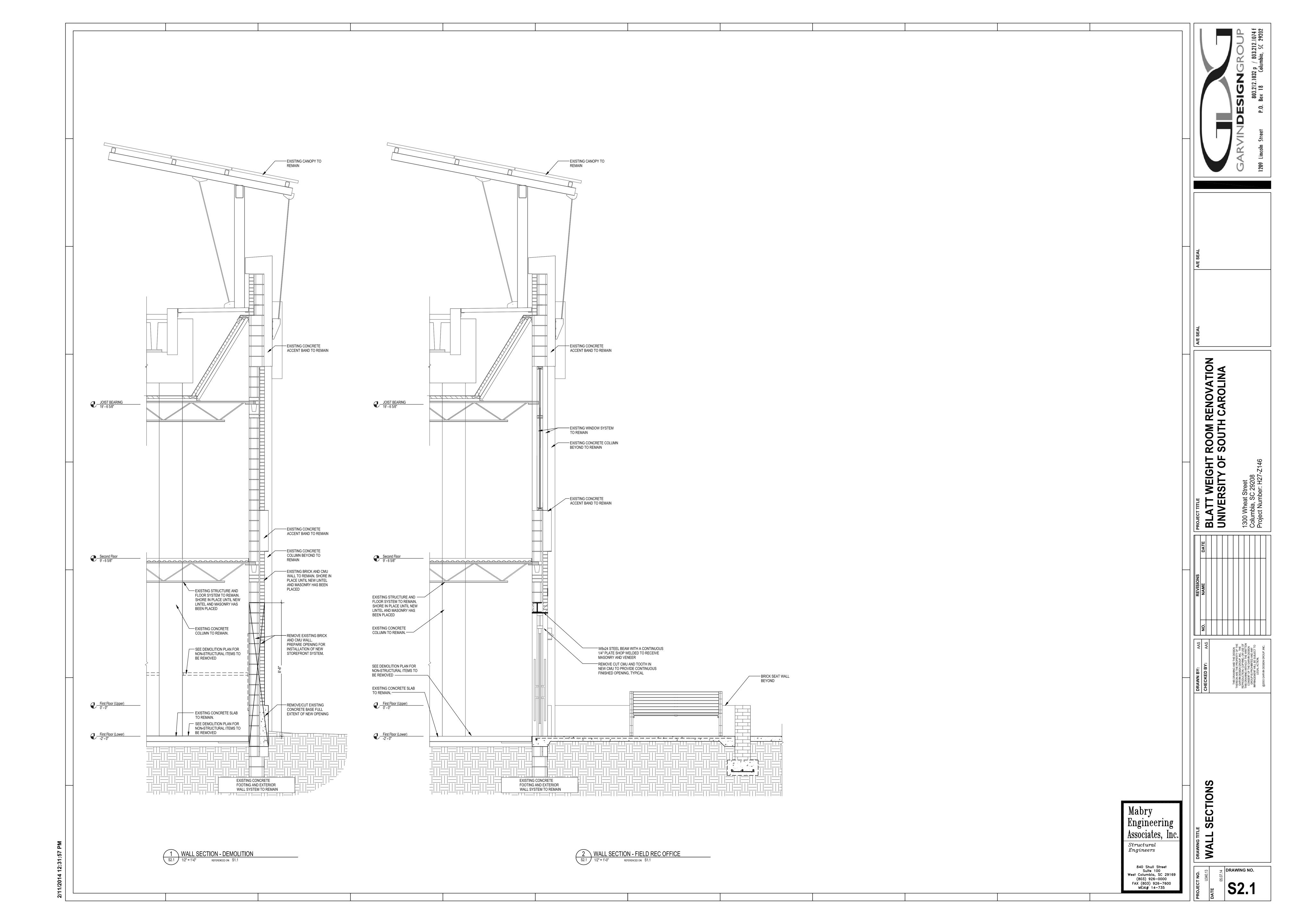
StructuralEngineers

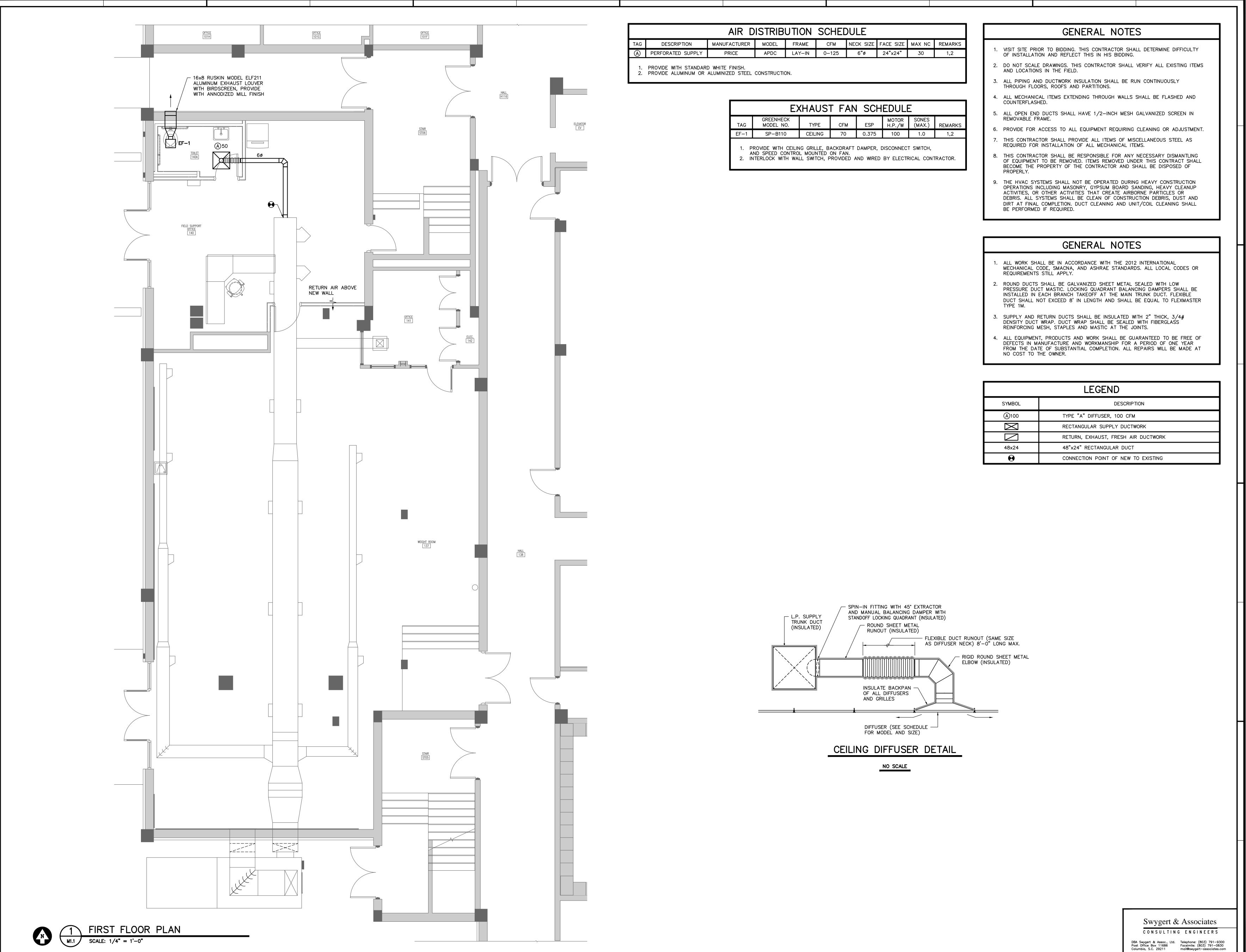
840 Shull Street

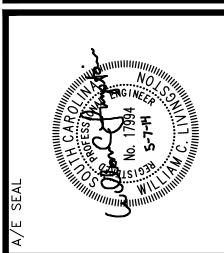
Suite 100 West Columbia, SC 29169 (803) 926-0000 FAX (803) 926-7600 MEAI# 14-735

DRAWING NO.









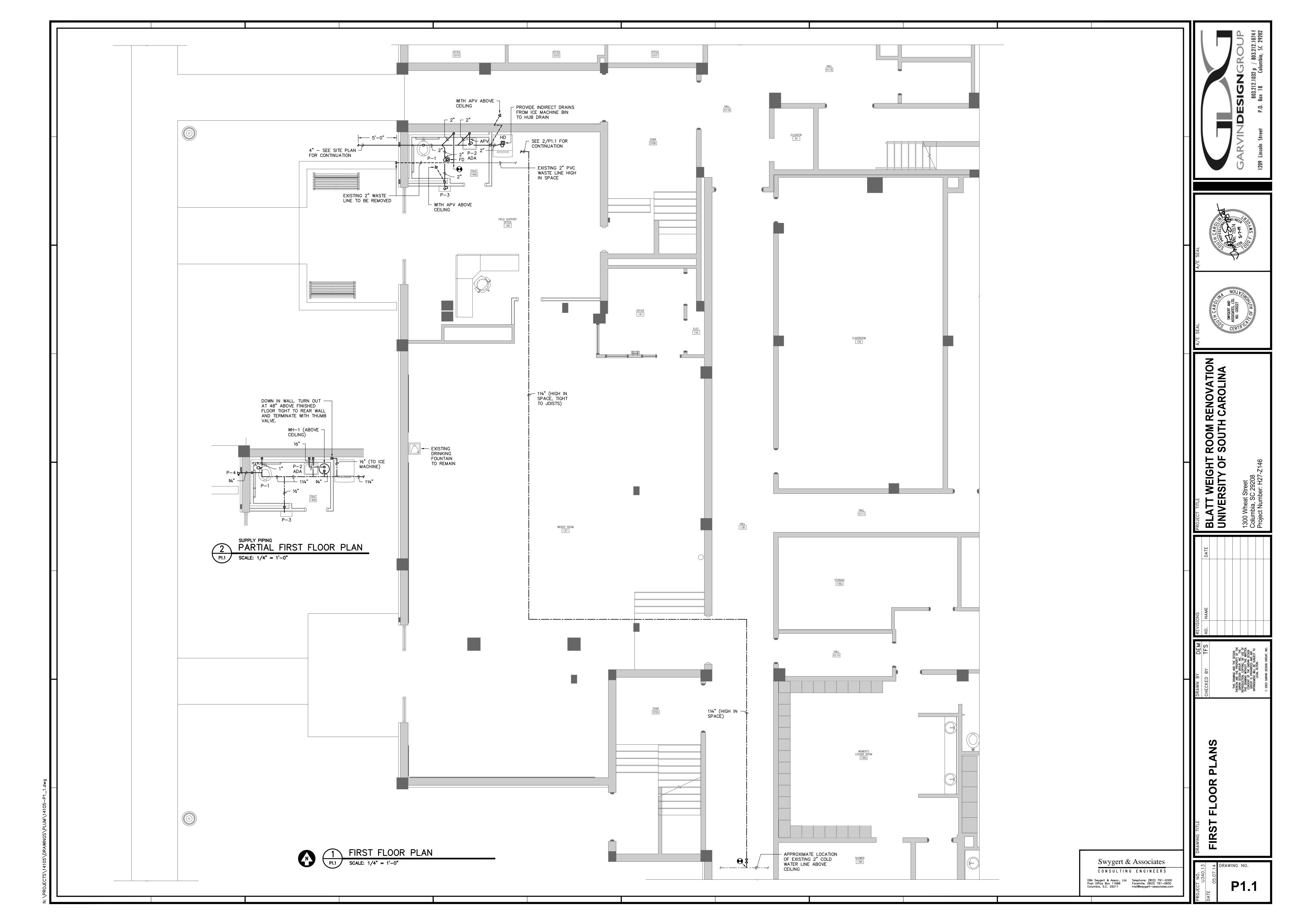


BLATT WEIGHT ROOM RENOVAUNIVERSITY OF SOUTH CAROL

FIRST F DETAIL SCHED

DRAWING NO.

M1.1



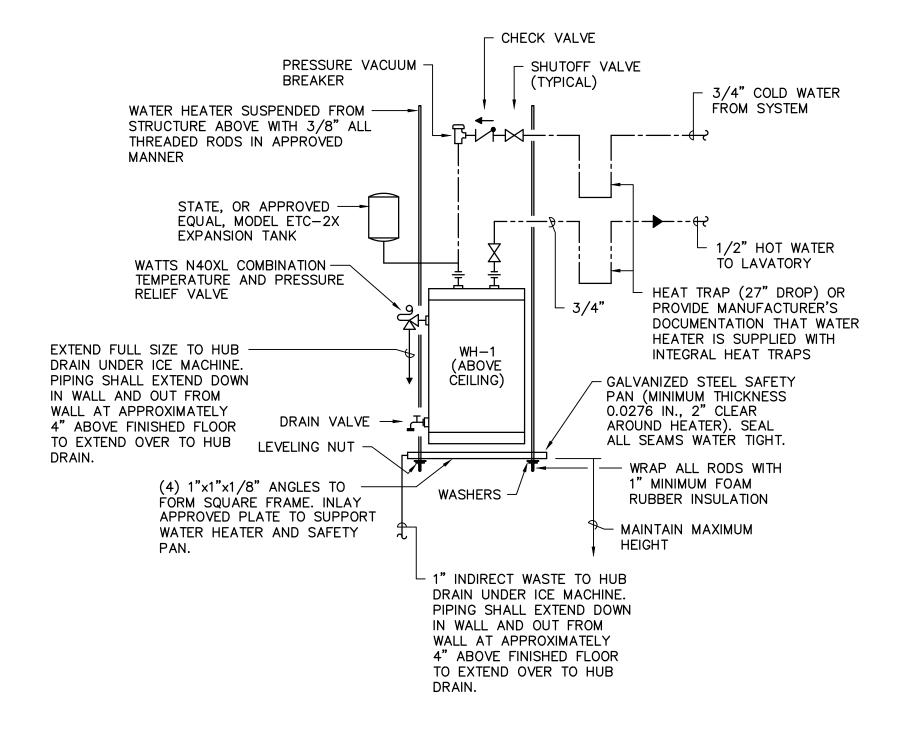
		PLUMBING FIXTURE SCHEDULE						
						MIN. S	UPPLY	
P. NO.	FIXTURE	MFGR.	NAME	MFGRS. NO.	SIZE	CW	HW	REMARKS
P-1	ACCESSIBLE WATER CLOSET	KOHLER	HIGHLINE	K-4405		1"		WITH SLOAN MODEL 111—XL FLUSH VALVE, BENEKE 527 SEAT, AND BOLT CAPS.
P-2	LAVATORY	KOHLER	KINGSTON	K-2005	21"x18"	3/8"	3/8"	WITH DELTA MODEL 501LF— TGMHDF FAUCET, McGUIRE 155 GRID STRAINER, McGUIRE H165 3/8" CAST BRASS SUPPLIES WITH STOPS, AND McGUIRE 8872 1-1/4" P-TRAP. MOUNT PER ADA REQUIREMENTS.
P-3	BOTTLE FILLING STATION	ELKAY		LZWSSM		1/2"		WITH McGUIRE H2167 1/2" CAST BRASS SUPPLY WITH STOP, AND McGUIRE 8872 1-1/4" P-TRAP.
P-4	WALL HYDRANT	WOODFORD	-	MODEL 67		3/4"		FREEZELESS. MOUNTED 2'-0" ABOVE FINISHED GRADE.
WH-1	WATER HEATER	STATE	SELECT	ES6-10- SOMS	10 GALLONS	3/4"	3/4"	WITH 1650 KW INPUT AT 120 VOLTS. SEE ELECTRICAL DRAWINGS FOR ELECTRICAL CHARACTERISTICS.
FD	FLOOR DRAIN	ZURN		ZN-415-S				WITH 5"x5" NICKLE BRONZE STRAINER, P-TRAP, AND TRAF GUARD BY PROSET, OR APPROVED EQUAL.

		Р	LUMBIN	G FIXTUR	RE SCHE	DUL	E	
	MIN. SUPPLY							
P. NO.	FIXTURE	MFGR.	NAME	MFGRS. NO.	SIZE	CW	HW	REMARKS
P-1	ACCESSIBLE WATER CLOSET	KOHLER	HIGHLINE	K-4405		1"		WITH SLOAN MODEL 111—XL FLUSH VALVE, BENEKE 527 SEAT, AND BOLT CAPS.
P-2	LAVATORY	KOHLER	KINGSTON	K-2005	21"x18"	3/8"	3/8"	WITH DELTA MODEL 501LF—TGMHDF FAUCET, McGUIRE 155AGRID STRAINER, McGUIRE H1653/8"CAST BRASS SUPPLIESWITH STOPS, AND McGUIRE88721-1/4"P-TRAP. MOUNTPER ADA REQUIREMENTS.
P-3	BOTTLE FILLING STATION	ELKAY		LZWSSM		1/2"	1	WITH McGUIRE H2167 1/2" CAST BRASS SUPPLY WITH STOP, AND McGUIRE 8872 1-1/4" P-TRAP.
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FD	FLOOR DRAIN	ZURN		ZN-415-S				WITH 5"x5" NICKLE BRONZE STRAINER, P—TRAP, AND TRAP

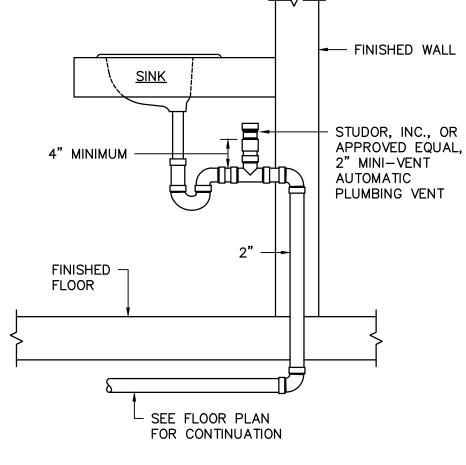
GENERAL NOTES

- 1. ALL WORK SHALL BE PERFORMED ACCORDING TO ALL LOCAL, STATE, NATIONAL CODES, AND THE 2012 INTERNATIONAL PLUMBING CODE.
- 2. SEE SITE PLAN FOR CONTINUATION OF UTILITIES.
- 3. ALL CONNECTIONS WITH SITE AT 5'-0" FROM BUILDING SHALL BE MADE BY THIS CONTRACTOR. THIS CONTRACTOR SHALL ALSO PROVIDE ALL NECESSARY TRANSITIONS IN PIPE SIZE AND/OR MATERIALS.
- 4. DO NOT SCALE DRAWINGS. SEE ARCHITECTURAL DRAWINGS FOR EXACT DIMENSIONS, FIXTURE LOCATIONS, ETC.
- 5. EXCEPT WHERE PIPE SPACE IS PROVIDED OR UNLESS NOTED OTHERWISE, ALL SUPPLY, WASTE AND VENT RISERS SHALL BE RUN IN WALLS AND PARTITIONS.
- 6. COORDINATE CLOSELY WITH ALL WORK DONE UNDER OTHER DIVISIONS OF THE SPECIFICATIONS TO AVOID INTERFERENCE AND CONFLICT.
- 7. PROVIDE FOR ACCESS TO ALL EQUIPMENT REQUIRING CLEANING OR ADJUSTMENT.
- 8. VALVES WITH THREADED HOSE CONNECTIONS SHALL BE EQUIPPED WITH A WATTS REGULATOR COMPANY, NO. NF8 BACK-SIPHONAGE, BACKFLOW PREVENTER.
- 9. 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.
- 10. ALL PIPING INSULATION SHALL BE RUN CONTINUOUSLY.
- 1. REMOVAL AND REPLACEMENT OF CEILING IN CORRIDOR, AS REQUIRED FOR INSTALLATION OF NEW WORK, SHALL BE DONE BY THIS CONTRACTOR. ANY CEILING GRID OR TILE DAMAGED DURING CONSTRUCTION SHALL BE REPLACED AT NO COST TO THE OWNER.
- 12. EXISTING FLOOR SLAB SHALL BE "SAW-CUT" FOR INSTALLATION OF NEW SEWER LINES. THIS CONTRACTOR SHALL PATCH AND FILL FOR CONCRETE FINISH BY OTHERS.

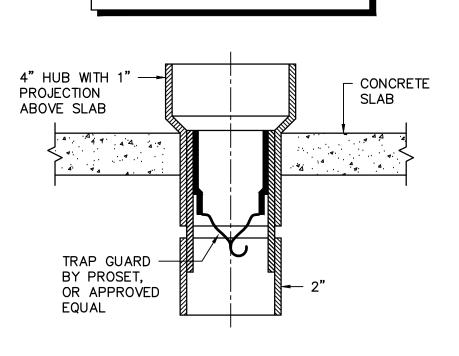
	LEGEND
SYMBOL	DESCRIPTION
~	SANITARY WASTE LINE
۶	SANITARY VENT LINE
~ − ~	DOMESTIC COLD WATER LINE
	DOMESTIC HOT WATER LINE
\longrightarrow	SHUTOFF VALVE
ې"A" ي	SHOCK ARRESTOR (P.D.I. RATING OF "A")
رسے ، صے	PIPE TURNS TO, AWAY
├ P−4	WALL HYDRANT
ADA	FIXTURE FOR USE ACCORDING TO THE AMERICANS WITH DISABILITIES ACT
APV	AUTOMATIC PLUMBING VENT
Θ	CONNECTION POINT OF NEW TO EXISTING





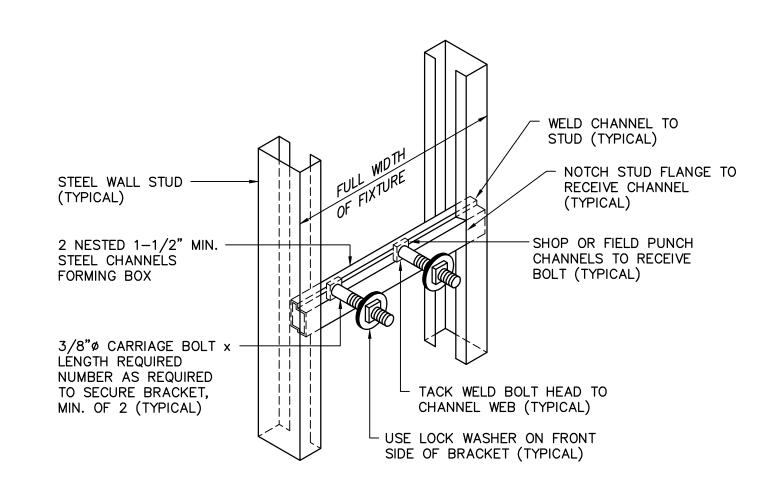


AUTOMATIC PLUMBING VENT NO SCALE

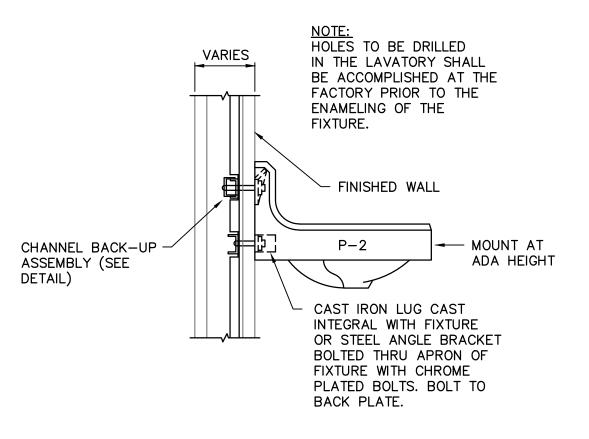


NOTE:
CARE SHOULD BE TAKEN NOT TO
TOUCH THE TRAP GUARD DEVICE
WITH THE PRIMER OR SOLVENT

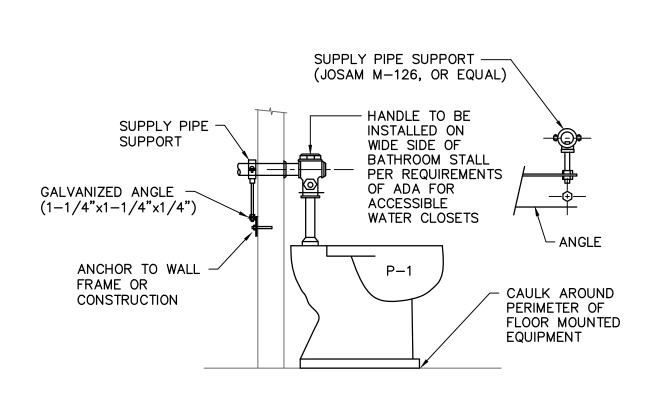
HUB DRAIN DETAIL NO SCALE



CHANNEL BACK-UP ASSEMBLY NO SCALE



LAVATORY MOUNTING DETAIL NO SCALE

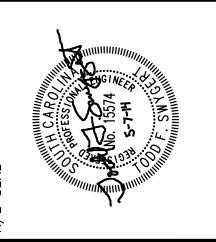


WATER CLOSET SUPPLY DETAIL NO SCALE

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

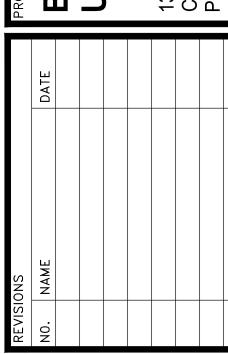
Telephone: (803) 791-9300
Facsimile: (803) 791-0830
mail@swygert-associates.com

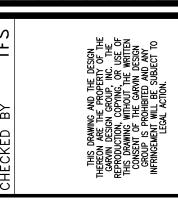






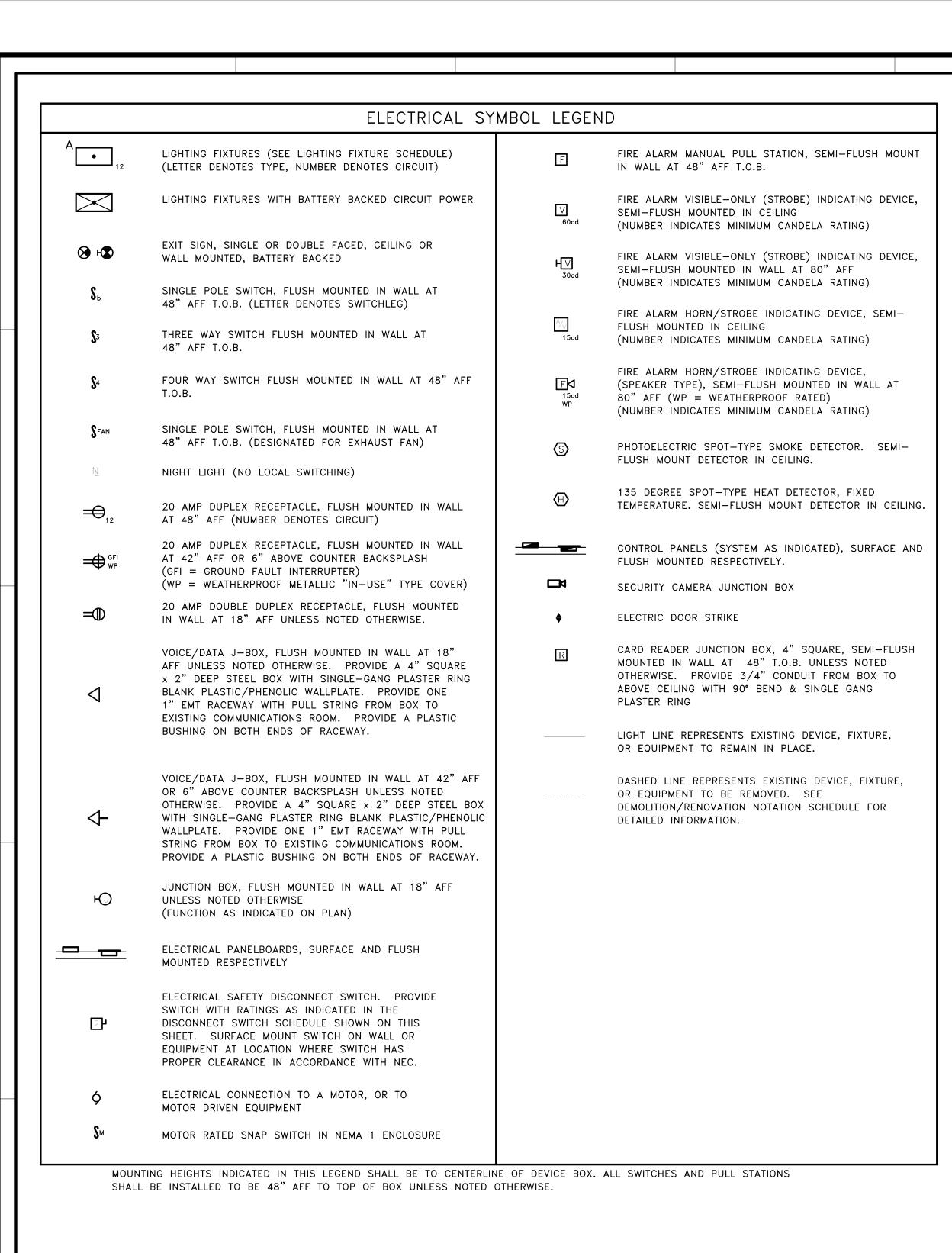
BLATT WEIGHT ROOM RENOVAUNIVERSITY OF SOUTH CAROL





DETAILS, NOTES SCHEDULE, AND

DRAWING NO. P2.1



EL
AFF AFG AIU AL BECC BOF C DACA FACP FBO GFI J-B MD MLO NEC NF NIC

ID	WIRE	CONDUIT
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 33 34 35 36 37 37 37 37 37 37 37 37 37 37 37 37 37	2#12, 1#12 GND. 3#12, 1#12 GND. 4#12, 1#12 GND. 2#10, 1#10 GND. 3#10, 1#10 GND. 4#10, 1#10 GND. 2#8, 1#10 GND. 3#8, 1#10 GND. 4#8, 1#10 GND. 3#6, 1#8 GND.	3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4"

1. EXISTING BRANCH CIRCUITS LISTED WERE 4. ALL WORK SHALL COMPLY WITH NFPA70.2011 8. PROVIDE TWO #12 STEEL, SLACK CABLES TO

GENERAL NOTES

CIRCUITS PRIOR TO WORK.

(NATIONAL ELECTRIC CODE).

STEEL, OR OTHER SYSTEMS.

ELECTRICAL LAYOUT DRAWINGS ARE

MECHANICAL CONTRACT DOCUMENTS.

INSTALL THE ELECTRICAL SYSTEM WITHOUT

INTERFERING WITH DUCTS, PIPES, STRUCTURAL

LOCATE LIGHTING FIXTURES SYMMETRICALLY IN

THE PROPER RELATION TO FINISHED AREAS,

EXCEPT WHERE DIMENSIONED ON DRAWINGS

OR LOCATED ON REFLECTED CEILING PLANS.

MOUNT GROUPED DEVICES IN A SINGLE

TYPE FITTINGS SHALL NOT BE USED.

11. OUTLETS WHICH OCCUR ON OPPOSITE SIDES

12. WALL PENETRATIONS FOR RACEWAYS SHALL

ARCHITECTURAL DRAWINGS. PROVIDE

13. PAINT ALL EXPOSED RACEWAYS TO MATCH

PENETRATING RATED WALLS PER

OF A COMMON WALL SHALL BE OFFSET A

BE PROVIDED BY ELECTRICAL CONTRACTOR.

PROVIDE FIRESTOPPING AROUND RACEWAYS

DRAFTSTOP SEAL AT NON-RATED WALLS.

CONTINUOUS MULTI-GANG BOX.

10. EMT FITTINGS SHALL BE OF THE

MINIMUM OF 12 INCHES.

SURROUNDING FINISH.

STRUCTURE FROM EACH FIXTURE MOUNTED IN

COMPRESSION TYPE. SET SCREW OR INDENTOR

FOR DETAILS.

A GRID CEILING.

3/4"C. UNLESS NOTED OTHERWISE.

TAKEN FROM AS-BUILT DOCUMENTS AND HAVE NOT BEEN FIELD VERIFIED. CONTRACTOR SHALL FIELD VERIFY SOURCE OF BRANCH

ALL CIRCUITS SHALL BE 2#12, 1#12 GND. IN

COMMUNICATIONS, SECURITY CAMERAS, AND

BE ROUTED FROM DEVICE LOCATIONS TO

ACCESS CONTROL SYSTEM RACEWAYS SHALL

CONSOLIDATION JUNCTION BOX. SEE PLANS

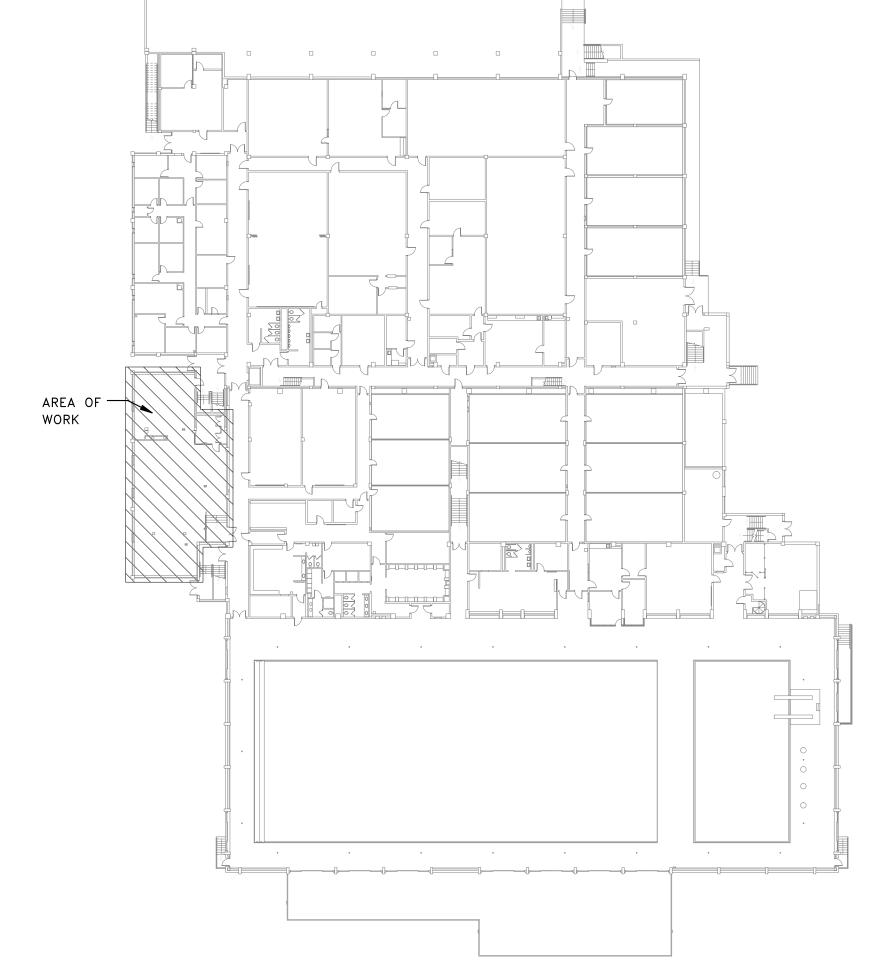
DIGRAMMATIC. COORDINATE ALL WORK WITH ARCHITECTURAL, CIVIL, STRUCTURAL, AND

W	IRE/CONDUIT SCHED	ULE
ID	WIRE	CONDUIT
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 37 37 37 37 37 37 37 37 37 37 37 37	2#12, 1#12 GND. 3#12, 1#12 GND. 4#12, 1#10 GND. 2#10, 1#10 GND. 3#10, 1#10 GND. 4#10, 1#10 GND. 2#8, 1#10 GND. 3#8, 1#10 GND. 3#6, 1#8 GND. 4#6, 1#8 GND. 3#44, 1#8 GND. 3#3, 1#8 GND. 4#44, 1#8 GND. 3#1, 1#6 GND. 3#1/0, 1#6 GND. 3#1/0, 1#6 GND. 4#1/0, 1#6 GND. 4#1/0, 1#6 GND. 4#2/0, 1#6 GND. 4#2/0, 1#6 GND. 4 #2/0, 1#6 GND. 4 #2/0, 1#6 GND. 4 #2/0, 1#6 GND. 4 #2/0, 1#4 GND. 3 #3/0, 1#4 GND. 4 #4/0, 1#4 GND. 3 -250KCMil, 1#4 GND. 4 -250KCMil, 1#4 GND. 3-350KCMil, 1#3 GND. 4-350KCMil, 1#3 GND. 4-500KCMil, 1#3 GND. 4-500KCMil, 1#3 GND. 4-500KCMil, 1#2 GND. 4-600KCMil, 1#2 GND. 4-750KCMil, 1#2 GND. 4-750KCMil, 1#2 GND.	3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 1" 1" 1-1/4" 1-1/4" 1-1/4" 1-1/2" 1-1/2" 1-1/2" 2" 2" 2" 2" 2" 2" 2-1/2" 2-1/2" 2-1/2" 3" 3" 3" 3" 4" 3-1/2" 4" 5"

EXISTING COMMUNICATIONS ROOM — R • b i_R • i **EXISTING** 7 b PANEL _______ LOCATIONS E • E b E • E c . E ° c

DEMOLITION NOTES

- EXISTING LIGHTING FIXTURES REFERENCED TO THIS NOTE ARE CURRENTLY MOUNTED IN EXISTING CEILING GRID TO BE DEMOLISHED. DISCONNECT AND REMOVE FIXTURES TO ALLOW FOR CEILING DEMOLITION AND RE-INSTALL IN APPROXIMATELY SAME LOCATION IN RENOVATION PHASE. SEE SHEET E2.0 FOR ADDITIONAL INFORMATION.
- DISCONNECT AND REMOVE EXISTING LIGHT SWITCH. SWITCH SHALL BE REPLACED WITH A 3-WAY SWITCH IN RENOVATION PHASE.



5 KEYPLAN

E1.0 / SCALE: NOT TO SCALE

FIRST FLOOR ELECTRICAL DEMOLITION PLAN

DEMOLITION/RENOVATION NOTATION

- E EXISTING FIXTURE OR DEVICE TO REMAIN IN
- R EXISTING FIXTURE OR DEVICE TO BE REMOVED BY THE ELECTRICAL CONTRACTOR. MAINTAIN CONTINUITY OF REMAINING PORTIONS OF BRANCH CIRCUIT.
- EXISTING DEVICE TO BE REMOVED BY THE ELECTRICAL CONTRACTOR. EXISTING CIRCUIT SHALL BE RETAINED. PROVIDE NEW DEVICE AS SHOWN ON RENOVATION PLANS.
- RR EXISTING FIXTURE TO BE RELOCATED BY THE ELECTRICAL CONTRACTOR TO NEW LOCATION SHOWN ON RENOVATION PLAN.
- RN RE-INSTALL EXISTING FIXTURE IN NEW LOCATION

ELECTRICAL DRAWING INDEX E1.0 ELECTRICAL DEMOLITION PLAN

E2.0 ELECTRICAL RENOVATION PLAN

7 CLUSTERS COURT, SUITE 201

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

BELKA

ENGINEERING

ASSOC. INC.

No. C00953

BLATT WEIGHT ROOM RENOVAT UNIVERSITY OF SOUTH CAROLIN

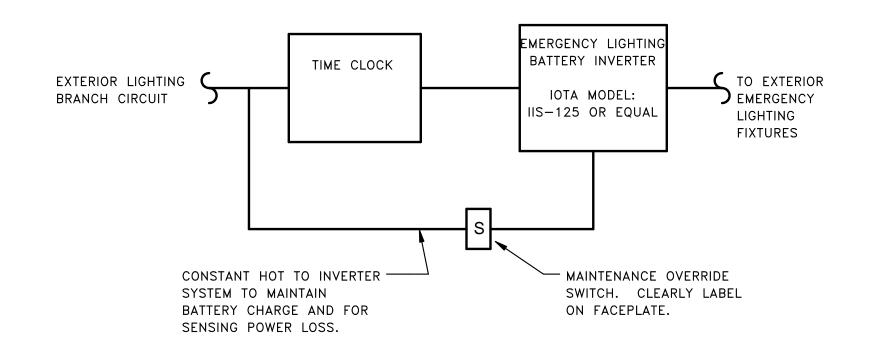
E1.0 $\int SCALE: 1/8" = 1'-0"$

E3.0 PANELBOARD SCHEDULES & DETAILS

			LIGHTI	NG FIXTURE SCHEE	ULE			
	Туре				Optical			
Symbol	Mark	Description	Manufacturer	Model	Element	Mounting	Voltage	Lamps
	A	2'x2' FLUORESCENT GRID TROFFER, 2 LAMPS	DAY-BRITE COLUMBIA H.E. WILLIAMS	2TG8 217R 21 277 1/2	.125 ACRYLIC LENS	GRID	277 V	2 - F17T8/ADV841/ALTO
豆	В	2' WALL MOUNTED VANITY FIXTURE	DAY-BRITE PRUDENTIAL	AVW 117 PMW 277 DEK 1/1-EB	ACRYLIC LENS	WALL	277 V	1 - F17T8/ADV841/ALTO
Ю	С	EXTERIOR WALL FIXTURE, INVERTER BACKED. PROVIDE LABEL ON FIXTURE INDICATING ONLY LED LAMPS SHALL BE USED.	VISION 3 OCL INTENSE	WM1A *FINISH* C2 MO12-75-120 121 0 0 0	GLASS LENS	WALL ABOVE DOOR	120 V	L.E.D. (12W, 684 LUMENS, 80+ CRI, 3000K)
	D	SUSPENDED FLUORESCENT FIXTURE	LEDALITE PINNACLE	4806 F02 BJ 412E B	DIFFUSED LENS	NOTE 1	277 V	2 - F28T5/841/ALTO
4-2	ЕМ	EMERGENCY LIGHTING UNIT	CHLORIDE DUAL-LITE EMERGI-LITE	CAX6N	NONE	WALL 8'0"AFF	277 V	2 - 6W MR16
⊗	Х	LED EXIT SIGN WITH NICad BATT., RED LETTERS AND WHITE CANOPY, 1 FACE	CHLORIDE DUAL-LITE EMERGI-LITE	ER46L 1 R	NONE	CEILING	277 V	L.E.D. INCLUDED

LIGHTING FIXTURE SCHEDULE NOTES:

- LIGHTING FIXTURES SHALL BE FURNISHED BY OWNER AND INSTALLED BY CONTRACTOR.
- FIXTURE SHALL BE SUSPENDED SUCH THAT THE BOTTOM OF THE FIXTURE IS AT THE BOTTOM OF THE EXISTING DUCT WORK. COORDINATE EXACT HEIGHT IN THE
- FOR EACH FIXTURE LISTED IN THE LIGHTING FIXTURE SCHEDULE THE FIRST MANUFACTURER LISTED IS THE BASIS OF DESIGN. MODEL NUMBERS LISTED ARE FOR THE BASIS OF DESIGN MANUFACTURER ONLY. ANY OTHER MANUFACTURER'S LISTED INDICATE THAT THEY MAY BE CONSIDERED AS A PRIOR APPROVED EQUAL. PRIOR
- APPROVED EQUAL, SHALL BE DEFINED AS THE ABILITY TO PROVIDE AN EQUAL FIXTURE TO THE BASIS OF DESIGN. 4. CONTRACTORS MAY SUBMIT PROPOSED EQUALS FOR ANY FIXTURES LISTED 10-DAYS PRIOR TO BID TO ENGINEER FOR REVIEW.

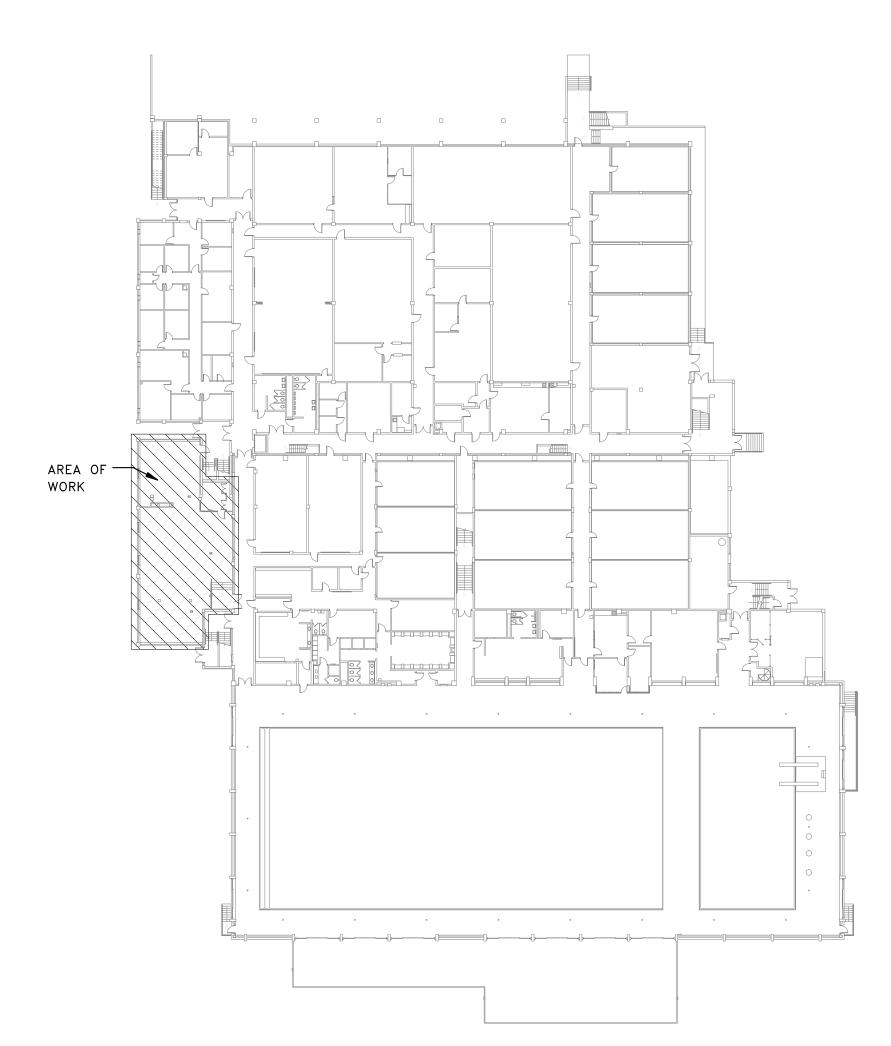


THIS DETAIL IS NOT A WIRING DIAGRAM AND SHALL BE USED TO SHOW INTENT ONLY. UTILIZE EQUIPMENT MANUFACTURER'S WIRING DETAILS FOR ALL CONNECTION DETAILS.

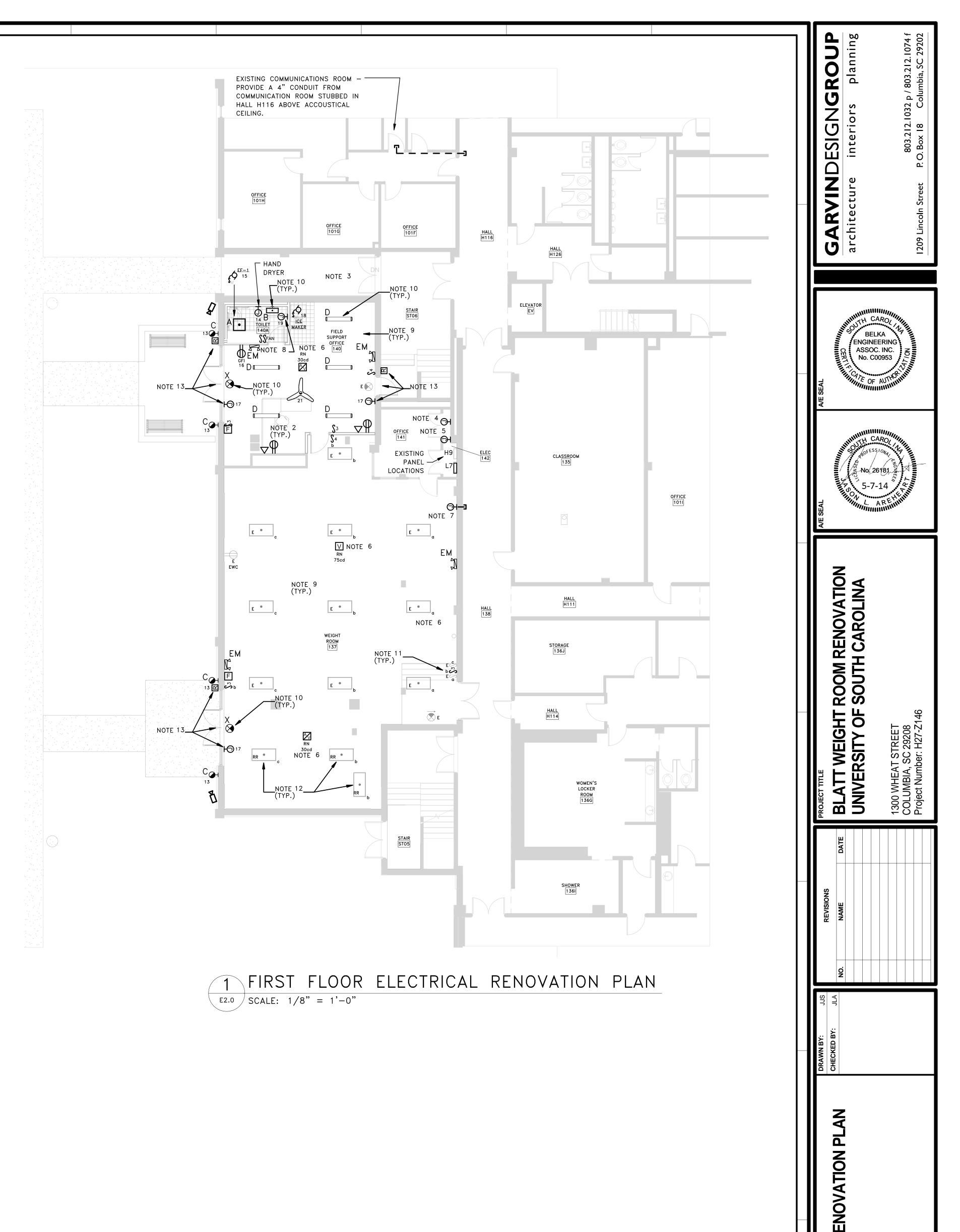
2 EXTERIOR LIGHTING CONTROL DETAIL E2.0 SCALE: NOT TO SCALE

- RENOVATION NOTES LIGHTING FIXTURE BRANCH CIRCUITS SHALL BE FED FROM EXISTING PANEL "H9", UNLESS NOTED OTHERWISE.
- RECEPTACLES SHALL BE FED BY EXISTING BRANCH CIRCUIT IN PANEL "L7" THAT FED RECEPTACLES REMOVED IN DEMOLITION PHASE.
- EXTERIOR CORRIDOR. DO NOT ROUTE COMMUNICATIONS RACEWAYS THROUGH THIS AREA OR THROUGH ADJACENT STAIRWELL.
- PROVIDE AN (IOTA IIS-125) EMERGENCY LIGHTING INVERTER TO SUPPORT EXTERIOR LIGHTING. SEE DETAIL 2 ON THIS SHEET FOR ADDITIONAL
- PROVIDE AN (INTERMATIC ET90115C) TIMECLOCK TO SUPPORT CONTROL OF EXTERIOR LIGHTING. SEE DETAIL 2 ON THIS SHEET FOR ADDITIONAL
- CONTRACTOR SHALL SET CANDELA RATING OF RELOCATED FIRE ALARM INDICATING DEVICES TO MATCH THE INDICATED RATINGS ON THE RENOVATION PLAN, THIS SHEET.
- PROVIDE A 12" SQUARE BOX MOUNTED HIGH ON WALL FOR CONSOLIDATION OF COMMUNICATIONS SYSTEM, SECURITY SYSTEM, AND ACCESS CONTROL SYSTEM RACEWAYS. PROVIDE A 3" NIPPLE INTO CORRIDOR ABOVE ACOUSTICAL DROPPED CEILING WITH PROTECTIVE BUSHING ON END.
- MAKE ALL REQUIRED CONNECTIONS TO WATER HEATER ABOVE CEILING. COORDINATE EXACT LOCATION WITH PLUMBING CONTRACTOR PRIOR TO
- PAINT ALL EXPOSED RACEWAYS AND BOXES IN WEIGHTROOM AND FIELD SUPPORT SPACE TO MATCH SURROUNDING FINISH.
- MODIFY AND EXTEND EXISTING LIGHTING BRANCH CIRCUIT TO NEW LIGHT FIXTURE LOCATIONS.
- 11 REPLACE EXISTING SINGLE-POLE SWITCH WITH A 3-WAY SWITCH AND RE-WORK LIGHTING SWITCHLEG AND TRAVELERS TO TIE TO 3-WAY AND 4-WAY SWITCHES AT OTHER ENTRY POINTS.
- 12 CHAIN-HANG EXISTING FIXTURES FROM STRUCTURE IN APPROXIMATELY THE SAME LOCATION. FIXTURES SHALL BE MOUNTED AT HEIGHT TO MATCH SURROUNDING SUSPENDED FIXTURES.
- PROVIDE ROUGH-IN FOR ACCESS CONTROL DOORS REFERENCED TO THIS NOTE PER DETAILS 1 & 3 ON SHEET E3.0.

ID	WIRE	CONDUIT
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37	2#12, 1#12 GND. 3#12, 1#12 GND. 4#12, 1#12 GND. 2#10, 1#10 GND. 3#10, 1#10 GND. 2#8, 1#10 GND. 3#8, 1#10 GND. 3#8, 1#10 GND. 3#6, 1#8 GND. 4#6, 1#8 GND. 4#44, 1#8 GND. 3#3, 1#8 GND. 4#44, 1#8 GND. 3#1, 1#6 GND. 3#1, 1#6 GND. 3#1, 0, 1#6 GND. 3#1/0, 1#6 GND. 4#1/0, 1#6 GND. 3#2/0, 1#6 GND. 3#2/0, 1#6 GND. 4#1/0, 1#6 GND. 3#2/0, 1#6 GND. 4#1/0, 1#6 GND. 3#2/0, 1#6 GND. 3#4/0, 1#4 GND. 3#4/0, 1#4 GND. 3#4/0, 1#4 GND. 3-250KCMil, 1#4 GND. 3-250KCMil, 1#3 GND. 4-250KCMil, 1#3 GND. 4-350KCMil, 1#3 GND. 4-350KCMil, 1#3 GND. 4-350KCMil, 1#3 GND. 4-750KCMil, 1#2 GND. 4-750KCMil, 1#2 GND. 4-750KCMil, 1#2 GND.	3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4"

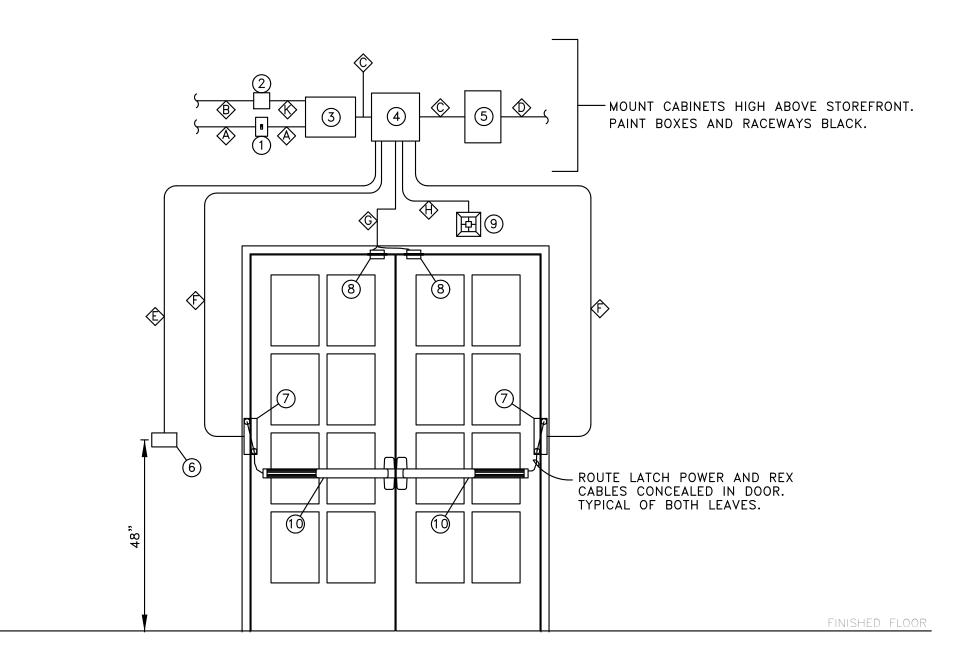






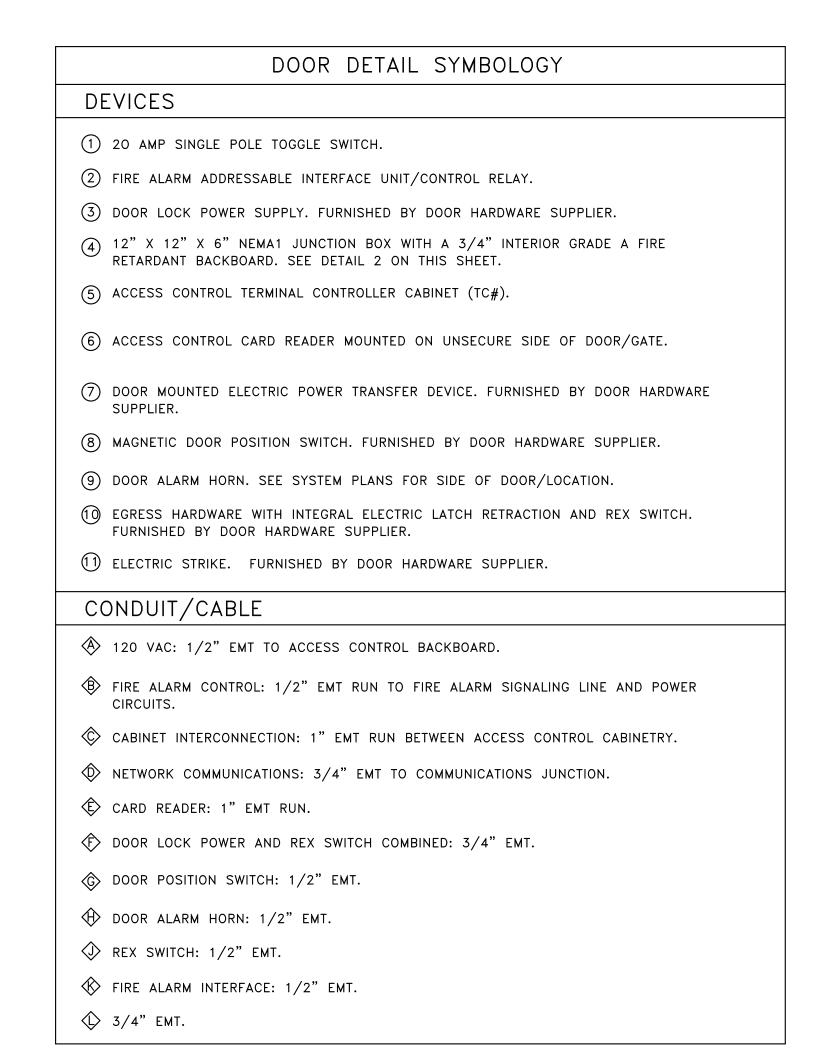
7 CLUSTERS COURT, SUITE 201 COLUMBIA, SOUTH CAROLINA 29210 (803) 731-0650 fax (803) 731-2880

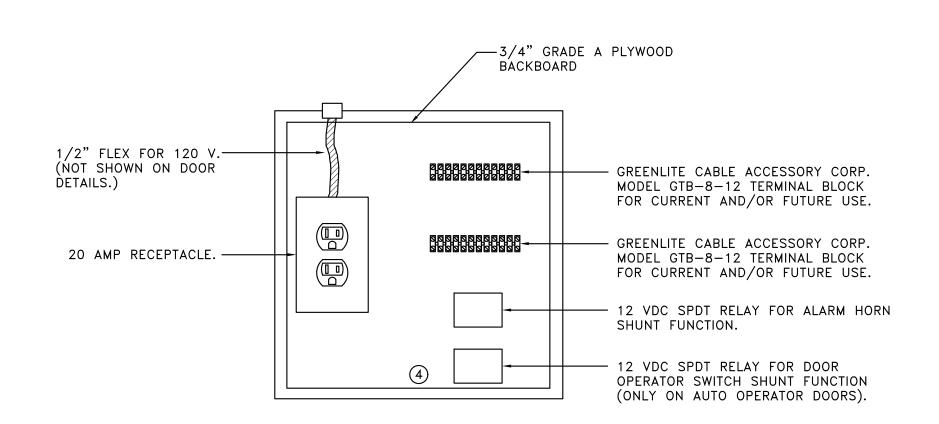
EMAIL: JAreheart@bellsouth.net



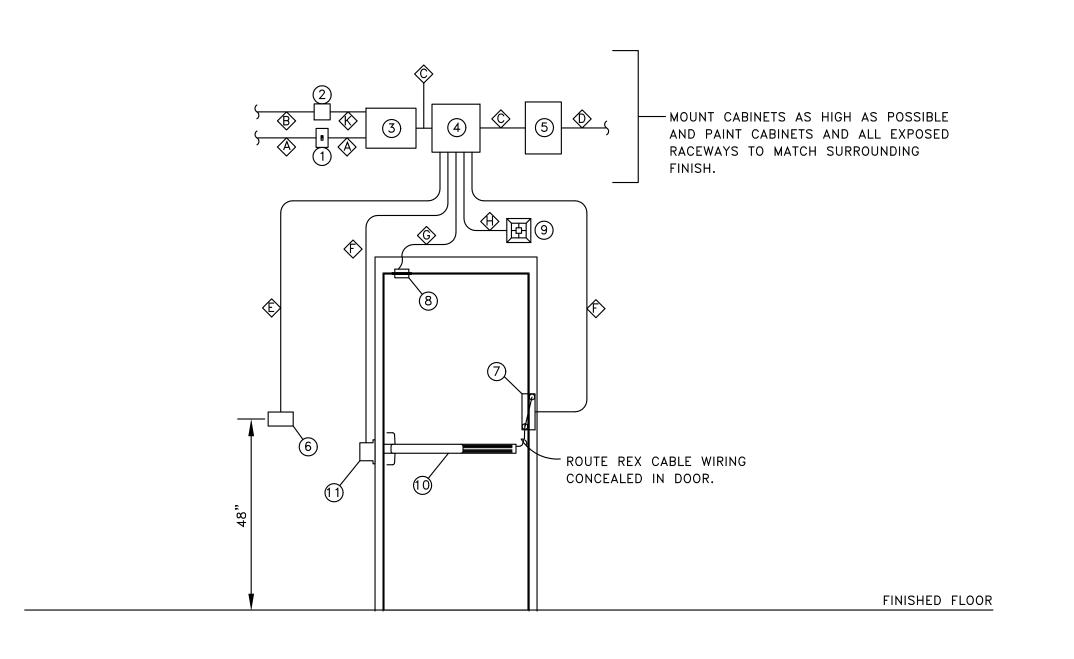
TYPICAL DOUBLE DOOR DETAIL ACCESS CONTROLLED DOORS

E3.0 / SCALE: NOT TO SCALE

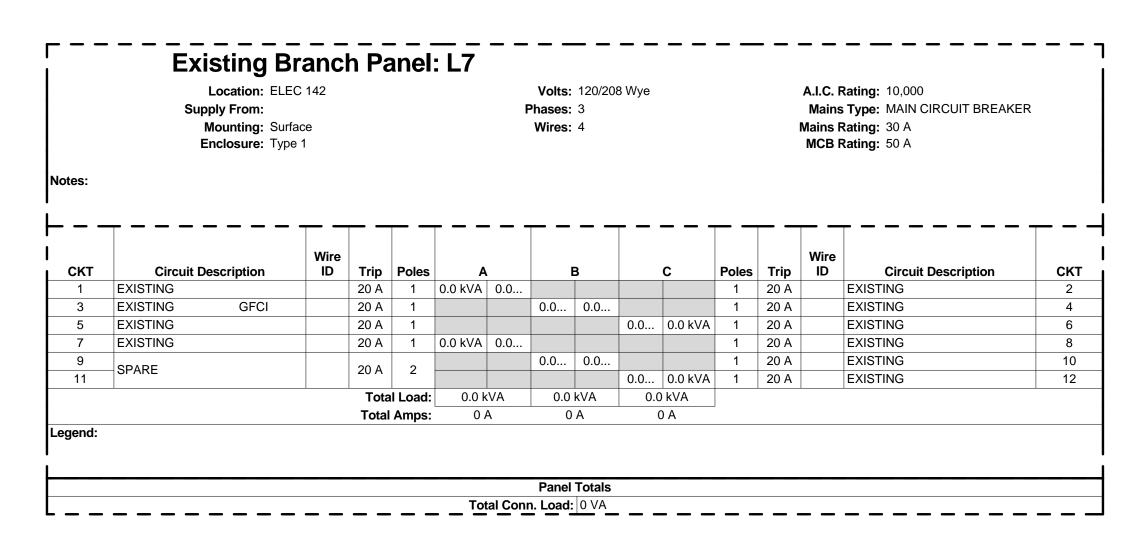


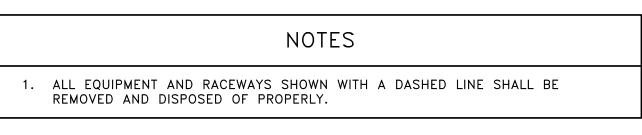


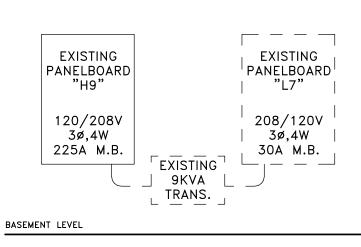
ENLARGED PLAN ACCESS 2 CONTROL JUNCTION BOX E3.0 SCALE: NOT TO SCALE



TYPICAL SINGLE DOOR DETAIL 3 ACCESS CONTROLLED DOORS E3.0 SCALE: NOT TO SCALE

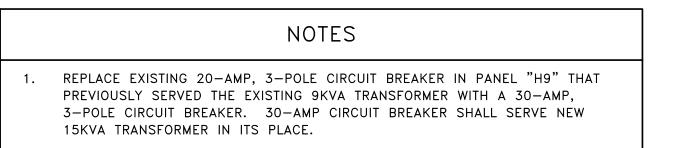


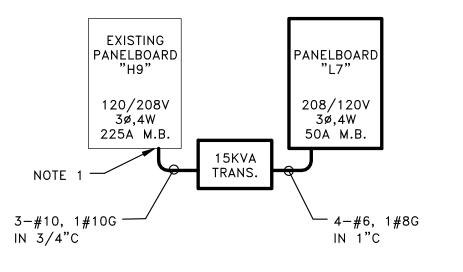




PARTIAL EXISTING POWER 4 SINGLE-LINE DIAGRAM E3.0 SCALE: NOT TO SCALE

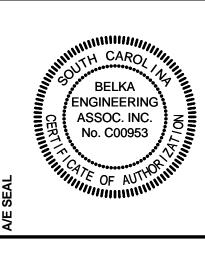
	Location: ELEC 142 Supply From: Mounting: Surface Enclosure: Type 1					Volts: 120/208 Wye Phases: 3 Wires: 4						A.I.C. Rating: 10,000 Mains Type: MAIN CIRCUIT BREAKER Mains Rating: 50 A MCB Rating: 50 A				
lotes:		Wire											Wire			
CKT	Circuit Description	ID	Trip	Poles			I	В		С	Poles	Trip		Circuit Description	CKT	
	EXISTING		20 A	1	0.0 kVA	0.0					1	20 A		EXISTING	2	
	EXISTING GFCI		20 A	1			0.0	0.0			1	20 A		EXISTING	4	
	EXISTING		20 A	1					0.0	0.0 kVA	1	20 A		EXISTING	6	
	EXISTING		20 A	1	0.0 kVA	0.0					1	20 A		EXISTING	8	
9	EXISTING		20 A	2			0.0	0.0			1	20 A		EXISTING	10	
11				_					0.0	0.0 kVA	1	20 A		EXISTING	12	
	EXTERIOR BUILDING LTS		20 A	1	0.0 kVA	1.0					1	20 A		HAND DRYER	14	
	RESTROOM EF		20 A	1			0.1	0.2			1	20 A		RECP WATER BOTTLE FILLER	16	
	ACCESS CONTROL		20 A	1					0.6	1.6 kVA	1	20 A		ICE MAKER	18	
19	WATER HEATER		20 A	1	1.7 kVA	0.0					1	20 A		SPARE	20	
	CEILING FANS		20 A	1			0.0	0.0			1	20 A		SPARE	22	
23	SPARE		20 A	1					0.0	0.0 kVA	1	20 A		SPARE	24	
				I Load:				kVA		kVA						
			Total	Amps:	25	A	3	Α	2	1 A						

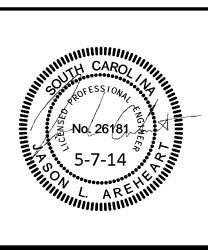




RENOVATION POWER 5 SINGLE-LINE DIAGRAM E3.0 SCALE: NOT TO SCALE







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