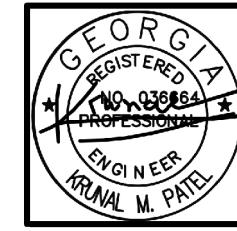


CONSULTANTS :

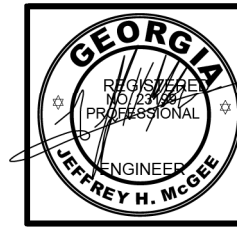
MECHANICAL / PLUMBING / FIRE PROTECTION

Total Engineering
169 New Street
Macon, Georgia 31201



ELECTRICAL

Electrical Design Consultants
175 New Street, Suite 1
Macon, Georgia 31201



PROJECT TITLE :

RENOVATIONS OF BIBB COUNTY COURTHOUSE

MACON, GEORGIA

Permit Set

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- G1.2 General Information
- G1.3 Drawing Specifications
- G1.4 Drawing Specifications

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- E1.1 Partial 5th Floor - Demolition
- E2.1 Partial 5th Floor - Lighting
- E3.1 Partial 5th Floor - Power & Systems

BUILDING CODE ANALYSIS :

APPLICABLE CODES

- 2018 International Building Code with Georgia Amendments
- 2018 International Fire Code with Georgia State Fire Marshal Amendments
- 2018 NFPA 101 Life Safety Code with Georgia State Fire Marshal Amendments
- 2018 International Mechanical Code with Georgia Amendments
- 2018 International Plumbing Code with Georgia Amendments
- 2020 National Electrical Code
- 2015 International Energy Conservation Code with Georgia Amendments
- 2010 Americans with Disabilities Act Standards
- O.C.G.A. 120-3-3 (20203D)

BUILDING DATA

CONSTRUCTION TYPE: III B

USE CLASSIFICATION(S): ASSEMBLY (A3)

OCCUPANCY TYPE: ASSEMBLY

TOTAL BUILDING AREA TO BE RENOVATED: 2,900 S.F.

DESIGN OCCUPANT LOAD:

Courtroom "C" 108 People

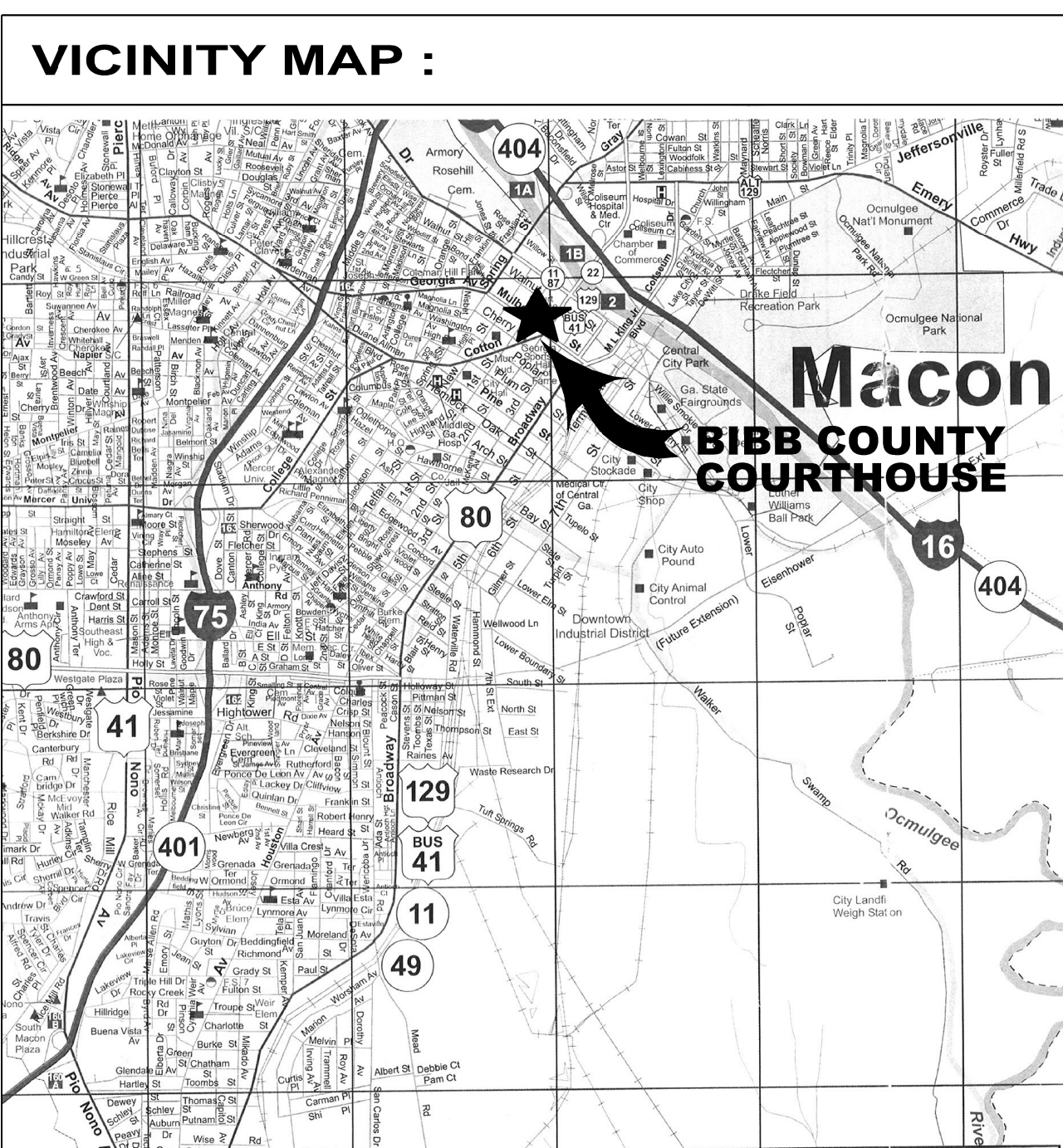
CHANGE OF USE: NO

AUTO SPRINKLER SYSTEM: YES (Existing)

FIRE ALARM SYSTEM: YES

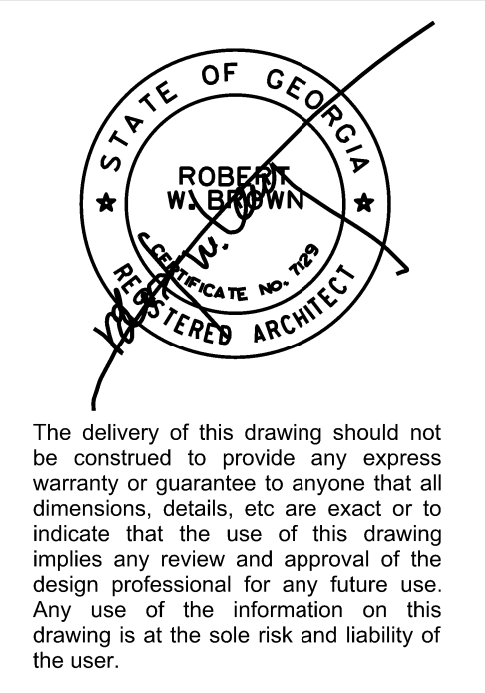
DEFERRED SUBMITTALS (Separate permit)

- Sprinkler Fire Protection modifications.
- Fire Alarm modifications.



PROJECT NARRATIVE:

Renovation of fifth floor meeting room to be third State Court Courtroom with Jury Room.

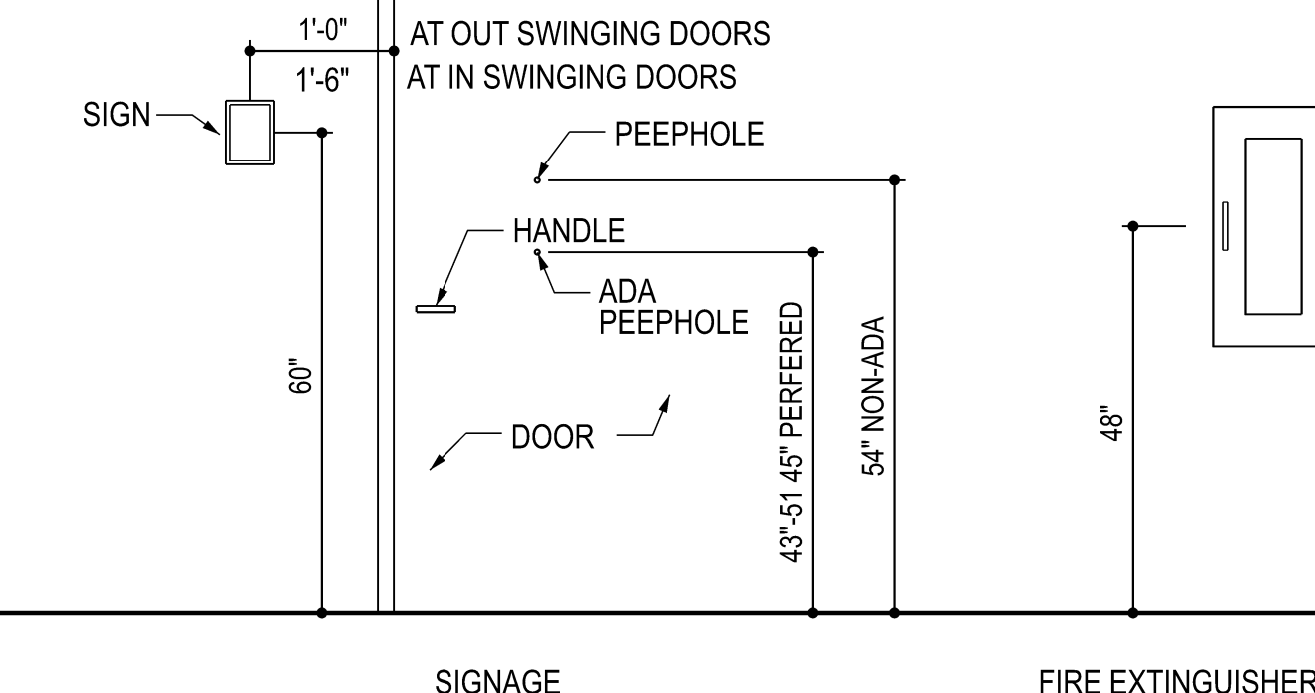
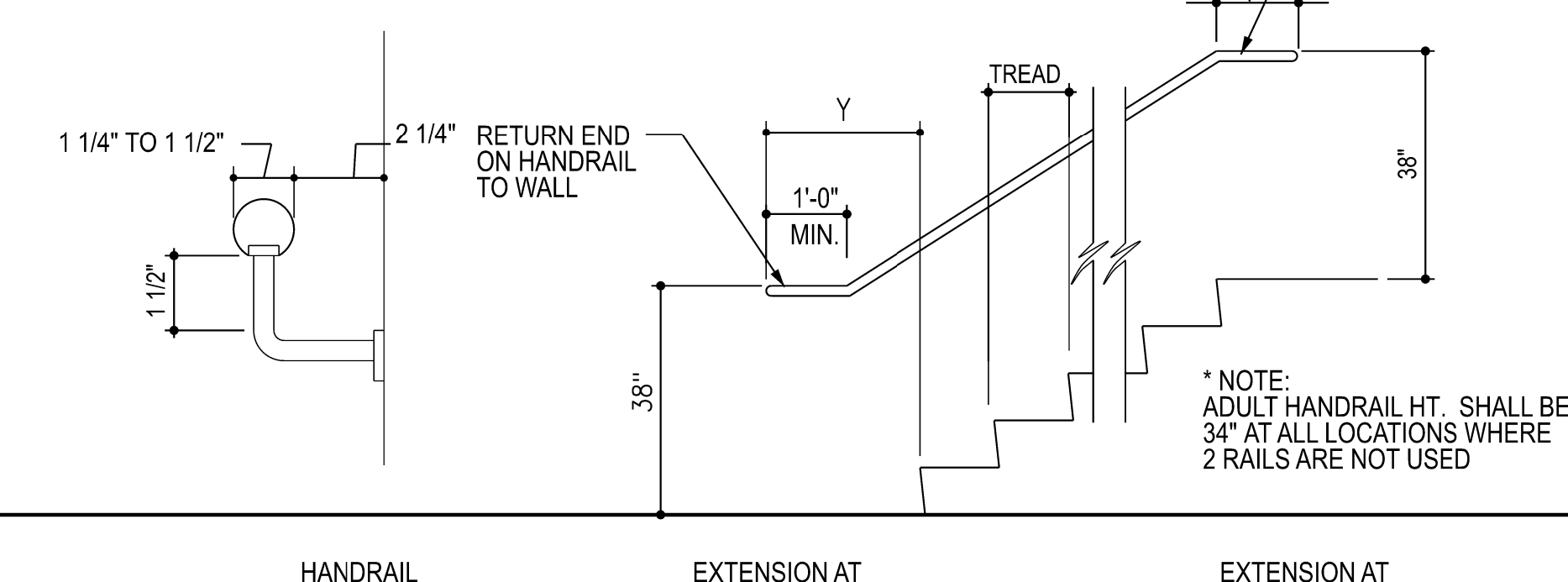
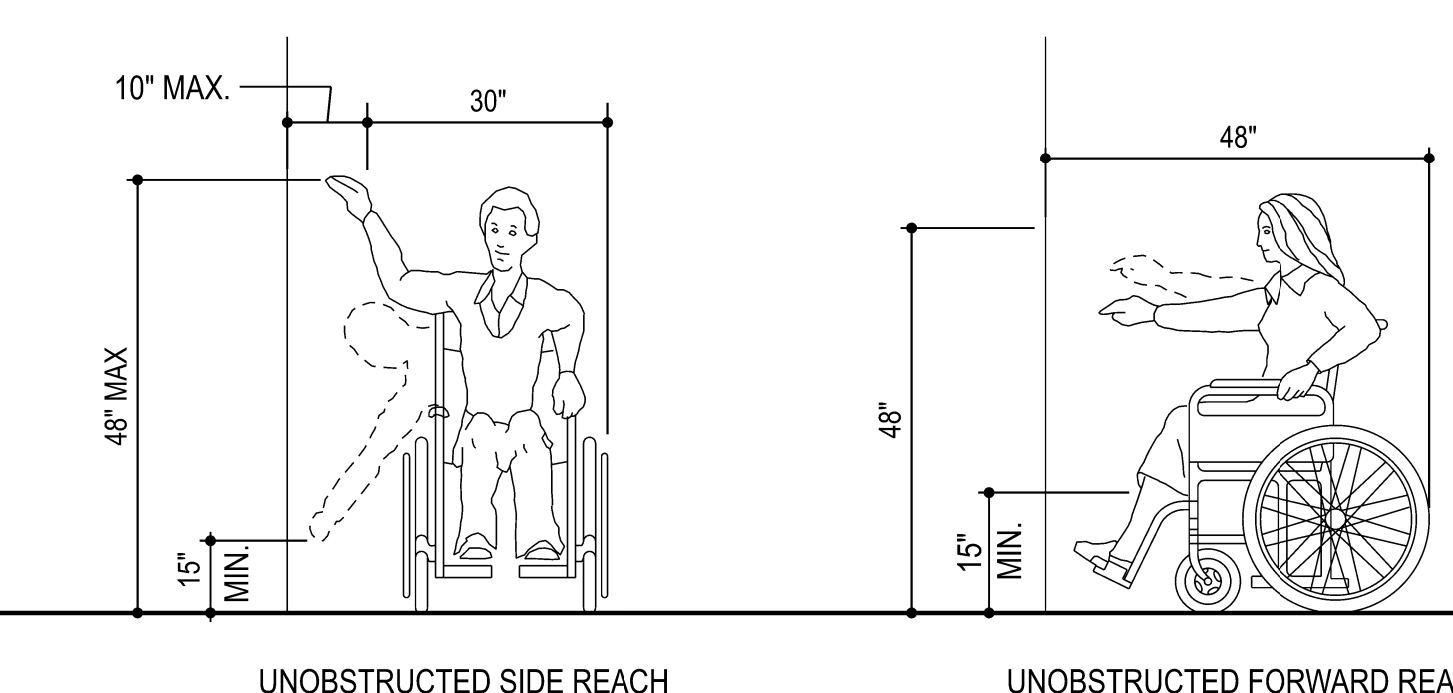
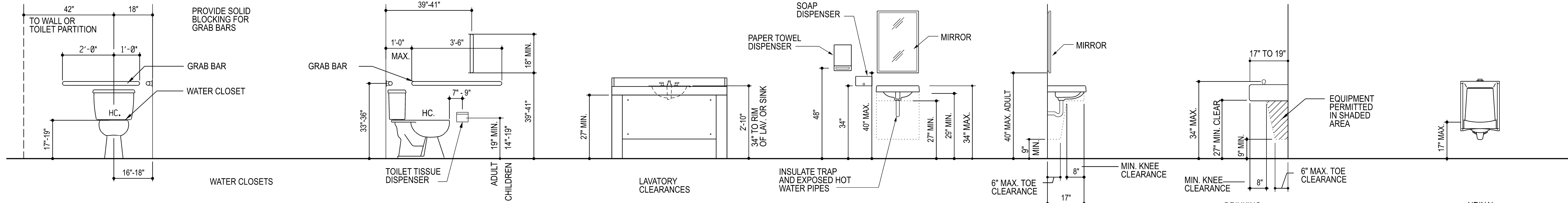


**RENOVATIONS OF
BIBB COUNTY COURTHOUSE**
 MACON, GEORGIA

Drawing Issue Schedule	
4-7-2023	Permit Set
Project No:	2022-44

Title Sheet, Drawing Index & Code Summary

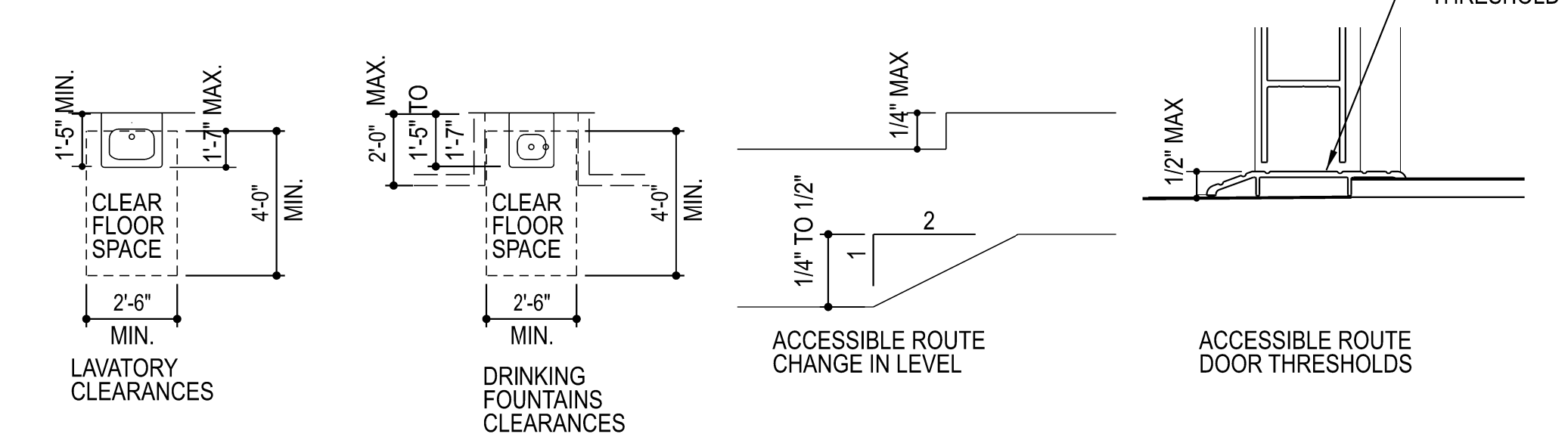
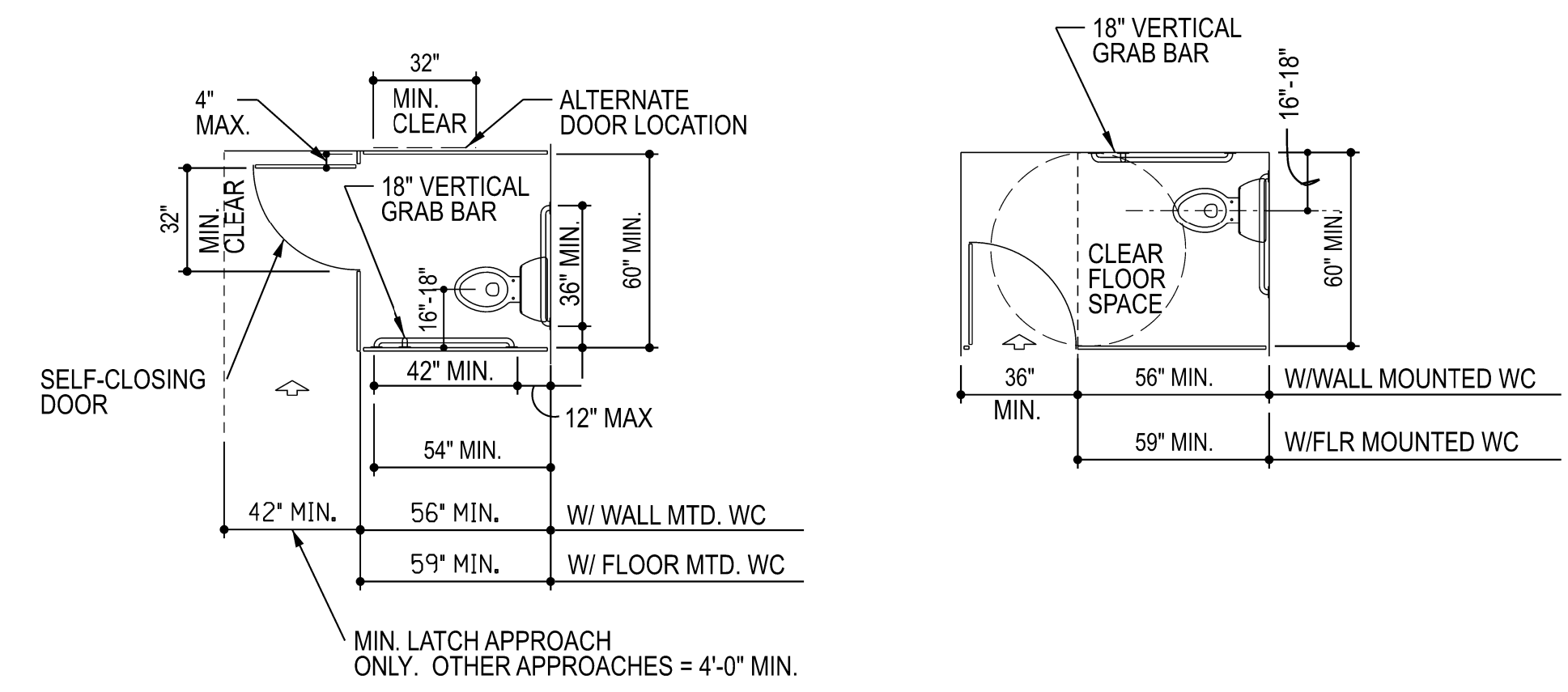
G1.1



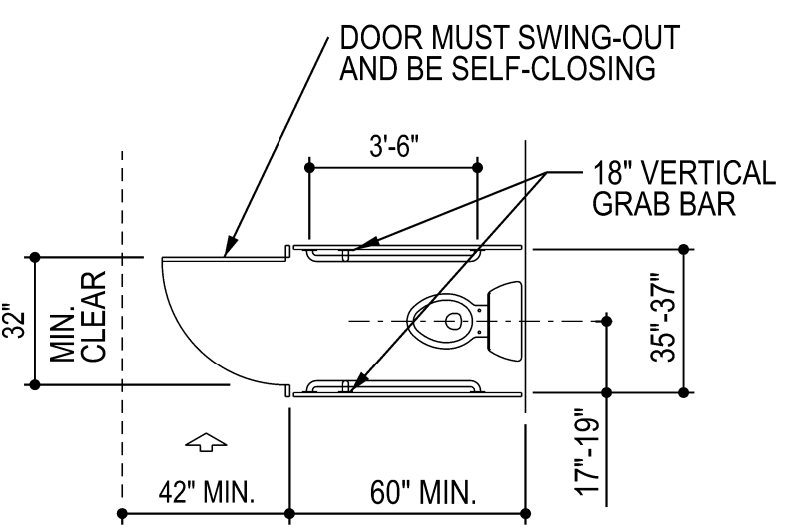
TYPICAL ADA WHEELCHAIR REACH RANGES

STANDARD WHEELCHAIR ACCESSIBLE STALLS

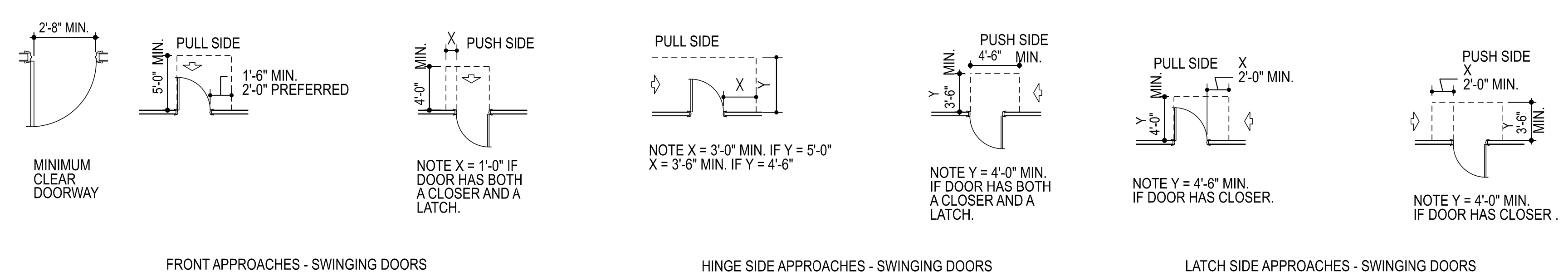
STANDARD ADA CLEARANCES



STANDARD AMBULATORY ACCESSIBLE TOILET COMPARTMENT



STANDARD ADA MANEUVERING CLEARANCES AT DOORS



ADA NOTES :

- ALL HANDICAPPED ACCESSORIES AND FIXTURES SHALL CONFORM TO THE "AMERICANS WITH DISABILITIES ACT".
- THE FOLLOWING NOTES FROM THE ADA GUIDELINES SHALL BE USED
 - DOOR HARDWARE: HANDLES, PULLS, LATCHES, LOCKS AND OTHER OPERATING DEVICES ON ACCESSIBLE DOORS SHALL HAVE A SHAPE THAT IS EASY TO GRASP WITH ONE HAND AND DOES NOT REQUIRE TIGHT GRASPING OR TWISTING OF THE WRIST TO OPERATE. LEVER-OPERATED MECHANISMS, PUSH-TYPE MECHANISMS, AND U-SHAPED HANDLES ARE ACCEPTABLE DESIGNS. WHEN SLIDING DOORS ARE FULLY OPEN, OPERATING HARDWARE SHALL BE EXPOSED AND USABLE FROM BOTH SIDES. HARDWARE REQUIRED FOR ACCESSIBLE DOOR PASSAGE SHALL BE MOUNTED NO HIGHER THAN 4'-0" ABOVE FINISHED FLOOR.
 - DOOR CLOSER: IF A DOOR HAS A CLOSER, THEN THE SWEEP PERIOD OF THE CLOSER SHALL BE ADJUSTED SO THAT FROM AN OPEN POSITION OF 70 DEGREES, THE DOOR WILL TAKE AT LEAST 3 SECONDS TO MOVE TO A POINT 3 IN FROM THE LATCH, MEASURED TO THE LEADING EDGE OF THE DOOR.
 - DOOR OPENING FORCE: THE MAXIMUM FORCE FOR PUSHING AND PULLING OPEN A DOOR SHALL BE AS FOLLOWS:
 - FIRE DOORS SHALL HAVE THE MINIMUM OPENING FORCE ALLOWABLE BY THE APPROPRIATE ADMINISTRATIVE AUTHORITY.
 - OTHER DOORS:
 - EXTERIOR HINGED DOOR: (RESERVED).
 - INTERIOR HINGED DOORS: 5 LBS.
 - SLIDING OR FOLDING DOORS: 5 LBS.
 THESE FORCES DO NOT APPLY TO THE FORCE REQUIRED TO RETRACT LATCH BOLTS OR DISENGAGE OTHER DEVICES THAT MAY HOLD THE DOOR IN A CLOSED POSITION.
 - SPOUT LOCATION: THE SPOUTS OF DRINKING FOUNTAINS AND WATER COOLERS SHALL BE AT THE FRONT OF THE UNIT AND SHALL DIRECT THE WATER FLOW IN A TRAJECTORY THAT IS PARALLEL OR NEARLY PARALLEL TO THE FRONT OF THE UNIT. THE SPOUT SHALL PROVIDE A FLOW OF WATER AT LEAST 4" HIGH SO AS TO ALLOW THE INSERTION OF A CUP OR GLASS UNDER THE FLOW OF WATER. ON AN ACCESSIBLE DRINKING FOUNTAIN WITH A ROUND OR OVAL BOWL, THE SPOUT MUST BE POSITIONED SO THE FLOW OF WATER IS WITHIN 3" OF THE FRONT EDGE OF THE FOUNTAIN.
 - DISPENSERS: TOILET PAPER DISPENSERS SHALL BE INSTALLED WITHIN REACH, AS SHOWN ON WATER CLOSET DRAWING THIS SHEET. DISPENSERS THAT CONTROL DELIVERY, OR THAT DO NOT PERMIT CONTINUOUS PAPER FLOW SHALL NOT BE USED.
 - DOORS, TOILET STALL DOORS, INCLUDING DOOR HARDWARE, SHALL COMPLY WITH 4.13. IF TOILET STALL APPROACH IS FROM THE LATCH SIDE OF THE STALL DOOR, CLEARANCE BETWEEN THE DOOR SIDE OF THE STALL AND ANY OBSTRUCTION MAY BE REDUCED TO A MINIMUM OF 3'-6".
 - CLEAR FLOOR SPACE: A CLEAR FLOOR SPACE 2'-6" BY 4'-0" SHALL BE PROVIDED IN FRONT OF URINALS TO ALLOW FORWARD APPROACH. THIS CLEAR SPACE SHALL JOIN OR OVERLAP AN ACCESSIBLE ROUTE. SHIELDS THAT DO NOT EXTEND BEYOND THE FRONT EDGE OF THE URINAL RIM MAY BE PROVIDED WITH 2'-5" CLEARANCE BETWEEN THEM.
 - EXPOSED PIPES AND SURFACES: HOT WATER AND DRAIN PIPES UNDER LAVATORIES SHALL BE INSULATED OR OTHERWISE CONFIGURED TO PROTECT AGAINST CONTACT. THERE SHALL BE NO SHARP OR ABRASIVE SURFACES UNDER LAVATORIES.
 - OPERATION, CONTROLS AND OPERATING MECHANISMS SHALL BE OPERABLE WITH ONE HAND AND SHALL NOT REQUIRE TIGHT GRASPING, PINCHING, OR TWISTING OF THE WRIST. THE FORCE REQUIRED TO ACTIVATE CONTROLS SHALL BE NO GREATER THAN 5 LBS.

609 Cherry Street, Macon, GA 31201
478.742.1208 / www.bbinc.com
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RENOVATIONS OF
BIBB COUNTY COURTHOUSE
 MACON, GEORGIA

Drawing Issue Schedule	
4-7-2023	Permit Set
Project No:	2022-44

General Information
G1.2

F:\PROJECTS\2022-44 Court House Renovations\Working Drawings\2022-44_G1.2_General Information.dgn
 1/5/2023

DRAWING SPECIFICATIONS

SPECIAL CONDITIONS AND TEMPORARY FACILITIES

- A. EXAMINATION OF SITE: 1. EACH BIDDER BY MAKING HIS BID REPRESENTS THAT HE HAS VISITED THE SITE AND FAMILIARIZED HIMSELF WITH THE LOCAL CONDITIONS UNDER WHICH THE WORK IS TO BE PERFORMED AND THAT HE HAS READ AND UNDERSTANDS THE BIDDING DOCUMENTS. BIDDERS SHALL EXAMINE THE AREAS WHEREIN WORK OF THIS PROJECT IS TO BE CARRIED OUT AND SHALL TAKE INTO CONSIDERATION ALL CONDITIONS THAT MIGHT AFFECT HIS WORK. (A) ARRANGEMENTS TO EXAMINE THE EXISTING BUILDING AND AREAS AFFECTED BY THE WORK OF THIS PROJECT, OTHER THAN AT THE TIME OF THE PRE-BID MEETING MUST BE SCHEDULED THROUGH: PATRICIA GRAVES STATE COURT CLERK BIBB COUNTY COURTHOUSE 601 MULBERRY STREET MACON, GA 31201 (478) 621-6200 PGRAVES@MACONBIBB.US 2. FAILURE OF THE BIDDER TO INSPECT FIRST-HAND THE AREAS AFFECTED BY WORK IN THIS PROJECT SHALL NOT RELIEVE HIM OF THE OBLIGATION TO COMPLY FULLY WITH THE SCOPE OF THE WORK AS DEFINED HEREIN. 3. NO CONSIDERATION WILL BE GIVEN ANY CLAIM BASED ON LACK OF KNOWLEDGE OF EXISTING CONDITIONS, EXCEPT WHERE THE CONTRACT DOCUMENTS MAKE DEFINITE PROVISIONS FOR ADJUSTMENT OF COST OR EXTENSION OF TIME DUE TO EXISTING CONDITIONS THAT CANNOT BE READILY ASCERTAINED. B. SECURITY: THE CONTRACTOR SHALL PREPARE A COMPLETE SECURITY PLAN THAT MUST BE APPROVED BY THE BIBB COUNTY SHERIFF'S OFFICE (BCSO) COURT SERVICES DEPARTMENT. ALL COSTS ASSOCIATED WITH APPROVED SECURITY MEANS AND METHODS SHALL BE BORNE BY THE CONTRACTOR. AT A MINIMUM THE PLAN MUST INCLUDE: 1. BACKGROUND CHECKS FOR ALL WORKERS AND ANY OTHER PERSONS ENTERING THE BUILDING DURING THE COURSE OF THE WORK (I.E. MATERIAL DELIVERIES, LABORERS, SUPERVISORS, ETC.). 2. METHOD OF VISUAL IDENTIFICATION FOR ALL WORKERS AND ANY OTHER PERSONS ENTERING THE BUILDING DURING THE COURSE OF THE WORK. 3. VEHICLE PARKING 4. TRASH REMOVAL/DUMPSTER LOCATION 5. DELIVERY OF MATERIALS (INCLUDING TIME OF DELIVERIES) 6. HOURS OF WORK 7. BUILDING ACCESS POINT 8. MOVEMENT OF WORKERS, MATERIALS, ETC., THROUGH THE BUILDING FROM POINT OF ENTRY TO 5TH FLOOR WORK AREA. C. CONSTRUCTION SEQUENCE: 1. THE BUILDING WILL REMAIN OCCUPIED DURING CONSTRUCTION; HOWEVER, THE SPACE TO BE RENOVATED FOR A NEW COURTROOM WILL NOT BE OCCUPIED. THE CONTRACTOR SHALL AT ALL TIMES ENSURE THE PROTECTION OF THE EMPLOYEES, THEIR PROPERTY, AND VISITORS. THE OWNER SHALL HAVE THE AUTHORITY AND DISCRETION TO DIRECT THE CONTRACTOR TO STOP WORK IMMEDIATELY IF THE HEALTH AND/OR SAFETY OF THE EMPLOYEES, VISITORS, OR PROPERTY IS OR COULD BE ENDANGERED, OR IF THE WORK IS DISRUPTING COURT PROCEEDINGS. (A) THE CONTRACTOR SHALL CONFINE HIS OPERATIONS TO THE AREAS WHERE WORK IN THIS PROJECT IS REQUIRED, STORING MATERIALS ONLY IN AREAS TO BE DESIGNATED BY THE OWNER. (B) THE OWNER SHALL BE RESPONSIBLE FOR MOVING ALL LOOSE FURNISHINGS, FILES, SHELVES, AND OTHER ITEMS THAT ARE NOT BUILT-IN AT SPACES TO BE RENOVATED. (C) THE CONTRACTOR SHALL NOT CAUSE DAMAGE OR PERMIT CONDITIONS WHICH MAY CAUSE DAMAGE TO THE BUILDINGS, CONTENTS, FURNISHINGS, ETC. ALL COSTS ASSOCIATED WITH ANY SUCH DAMAGES WILL BE THE RESPONSIBILITY OF THE CONTRACTOR. (1) SHOULD DAMAGE OCCUR, THE CONTRACTOR SHALL RESTORE, AT HIS EXPENSE, ANY SUCH PROPERTY DAMAGE OR INJURIES BY HIS OPERATIONS TO A CONDITION EQUAL TO THAT EXISTING BEFORE SUCH DAMAGE OR INJURY WAS DONE, BY REPAIRING, REBUILDING OR OTHERWISE RESTORING AS MAY BE DIRECTED BY, AND TO THE SATISFACTION OF THE OWNER. (2) IN CASE OF FAILURE ON THE PART OF THE CONTRACTOR TO RESTORE SUCH PROPERTY, OR MAKE GOOD SUCH DAMAGES OR INJURY, THE OWNER MAY, AFTER FORTY-EIGHT (48) HOURS WRITTEN NOTICE, PROCEED TO REPAIR, REBUILD, OR OTHERWISE RESTORE SUCH PROPERTY AS MAY BE DEEMED NECESSARY, AND THE COST THEREOF SHALL BE DEDUCTED FROM ANY MONIES DUE OR WHICH MAY BECOME DUE THE CONTRACTOR UNDER THIS CONTRACT. (D) THE CONTRACTOR SHALL MAKE EVERY EFFORT TO MINIMIZE INCONVENIENCES TO THE EMPLOYEES AND VISITORS WHILE THE WORK IS UNDERWAY AND TO MAINTAIN ACCESS FOR EMPLOYEES AND VISITORS TO OCCUPIED PORTIONS OF THE BUILDING.

- (E) THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL PREPARATION AS NECESSARY TO PROVIDE SUITABLE SURFACES FOR THE SPECIFIED WORK. (F) THE CONTRACTOR SHALL COOPERATE WITH THE OWNER OR THE OWNER'S REPRESENTATIVE WITH REGARD TO SCHEDULING OF WORK. (G) PUBLIC AREAS AND OTHER OFFICES, ETC., NOT IN THE SCOPE OF WORK: (1) PUBLIC AREAS: THE CONTRACTOR SHALL MAINTAIN PUBLIC AREAS (CORRIDORS, EXITS, EXIT PATHS, ELEVATORS, RESTROOMS, ETC.) FOR PUBLIC ACCESS AND USE. (2) OTHER OFFICES, ETC., NOT IN THE SCOPE OF WORK: THE CONTRACTOR SHALL MAINTAIN ACCESS FOR PUBLIC AND FOR EMPLOYEES TO ALL OTHER OFFICES, COURTROOMS, ETC., CONDUCTING BUSINESS-AS-USUAL DURING THE COURSE OF CONSTRUCTION. WHERE THE RENOVATION IN SOME WAY IMPACTS ANY SUCH OFFICES, ETC., THE CONTRACTOR SHALL COORDINATE AND SCHEDULE THE WORK SO AS NOT TO DISRUPT NORMAL BUSINESS ACTIVITIES.

- D UTILITIES AND FACILITIES: 1. POWER AND WATER ARE AVAILABLE FOR THE CONTRACTOR'S USE. 2. TOILET FACILITIES: AT BEGINNING OF WORK, THE CONTRACTOR SHALL PROVIDE ON PREMISES, IN APPROVED LOCATIONS, ADEQUATE, TEMPORARY ENCLOSED TOILET AND WASHING FACILITIES FOR USE OF EMPLOYEES. FACILITIES SHALL BE MAINTAINED IN A CLEAN AND SANITARY CONDITION THROUGHOUT PERIOD OF PROJECT. EXISTING TOILET FACILITIES SHALL NOT BE USED BY EMPLOYEES OF THE CONTRACTOR OR THE SUBCONTRACTORS.

ROUGH CARPENTRY

- A. MATERIALS: 1. MISCELLANEOUS LUMBER: BLOCKING, FURRING, AND OTHER MISCELLANEOUS LUMBER SPIB GRADE MARKED NO. 2 SOUTHERN YELLOW PINE, KILN-DRIED WITH MOISTURE CONTENT OF NOT MORE THAN 19% MOISTURE CONTENT. 2. FASTENERS: (A) NAILS: (1) FOR APPLICATION TO WOOD: ANNULAR THREAD, COATED STEEL, MEETING REQUIREMENTS OF FS FF-N-105; WHERE USED WITH TREATED LUMBER OR PLYWOOD NAILS SHALL BE HOT-DIPPED GALVANIZED, SIZES BEST SUITED FOR INTENDED USE. USE LARGE-HEAD ROOFING NAILS TO ATTACH INSULATING SHEATHING TO WOOD STUDS. (2) FOR APPLICATION TO CONCRETE AND MASONRY: UNLESS OTHERWISE NOTED ON THE DRAWINGS SMOOTH SHANK, HARDEN STEEL, COUNTER SUNK HEADS, MEETING REQUIREMENTS OF FS FF-N-105; WHERE USED WITH TREATED LUMBER OR PLYWOOD, NAILS SHALL BE HOT-DIPPED GALVANIZED; SIZES AS BEST SUITED FOR INTENDED USE. (B) BOLTS (LAG, TOGGLE, EXPANSION AND MISCELLANEOUS) AND SCREWS: TYPES, SIZES AND FINISHES BEST SUITED FOR INTENDED USE AND MEET FS FF-N-105; BOLT HEADS AND NUTS BEARING ON WOOD SHALL BE FIT WITH WASHERS. 3. GLUE: CS-35, TYPE 1, FULLY WATERPROOF. 4. WOOD PRESERVATIVE: WATER-BORNE, CONTAINING NO ARSENIC OR CHROMIUM, PAINTABLE AND STAINABLE AND APPROVED BY AWPA. B. FABRICATION: 1. ROUGH CARPENTRY: FABRICATE ALL FRAMING, FURRING, AND OTHER ITEMS FROM LUMBER AS DESCRIBED HEREIN BEFORE AND TO THE DESIGNS REQUIRED BY THE DRAWINGS. 2. WOOD PRESERVATIVE TREATMENT: ALL LUMBER AND FABRICATED WOOD ITEMS THAT WILL BE IN CONTACT WITH CONCRETE OR MASONRY SHALL BE PRESSURE TREATED WITH WOOD PRESERVATIVE IN ACCORDANCE WITH FS TT-W-00571, TABLE III; AFTER TREATMENT REDUCE MOISTURE CONTENT TO MAXIMUM OF 19 PER CENT.

FINISH CARPENTRY AND MILLWORK

- A. MATERIALS: 1. INTERIOR WOOD: (A) OPAQUE FINISH: AWI SECTION 100, GRADE 1, PONDEROSA PINE (FINGER JOINTS PERMITTED). (B) TRANSPARENT FINISH: AWI SECTION 100, GRADE 1, SELECT WHITE BIRCH OR AS REQUIRED TO MOST CLOSELY MATCH EXISTING.

- 2. GLUE: CS-35 TYPE 1, FULLY WATERPROOF. 3. FASTENING DEVICES - NAILS: (A) FOR APPLICATION TO WOOD, NAILS SHALL BE ANNULAR THREAD, COATED STEEL AND MEET THE REQUIREMENTS OF FS FF-N-101. (B) FOR APPLICATION TO CONCRETE OR MASONRY, NAILS SHALL BE SMOOTH SHANK, HARDENED STEEL, WITH COUNTER-SUNK HEADS AND MEET THE REQUIREMENTS OF FS FF-N-101. (C) FINISH NAILS SHALL BE HELICAL THREAD, HARDENED STEEL, BRIGHT FINISH, EXCEPT COATED NAILS SHALL BE USED IN EXTERIOR WORK, AND MEET THE REQUIREMENTS OF FS FF-N-101. 4. BOLTS: ALL BOLTS SHALL BE OF THE SIZES AND TYPES CALLED FOR ON THE DRAWINGS; EXCEPT WHERE USED IN EXPOSED TO VIEW WORK HEADS SHALL BE ROUND. B. FABRICATION: 1. GENERAL: ITEMS OF WOOD TRIM MARKED ON THE DRAWINGS WITH NUMBERS PREFIXED BY RB (RANDALL BROTHERS, ATLANTA, GA). THESE NUMBERS ARE USED TO ESTABLISH SIZE AND PROFILE REQUIRED ONLY. 2. STANDING AND RUNNING TRIM: FABRICATE TO DESIGNS AND SIZES SHOWN AND IN ACCORDANCE WITH AWI SECTION 300, PREMIUM GRADE, FOR SPECIFIED FINISH.

CABINETWORK

- A. MATERIALS: 1. SOLID WOOD: (A) EXPOSED TO VIEW: AWI SECTION 100 GRADE 1, SELECT WHITE BIRCH (OR AS REQUIRED TO MOST CLOSELY MATCH EXISTING), KILN-DRIED WITH MOISTURE CONTENT OF NOT MORE THAN 8%. (B) UNEXPOSED TO VIEW: AWI SECTION 100, GRADE 11, SOUTHERN YELLOW PINE, PLAIN CUT, KILN-DRIED WITH MOISTURE CONTENT OF NOT MORE THAN 11%. 2. PLYWOOD: FOR TRANSPARENT FINISH, AWI SECTION 200, VENEER CORE GRADE A, SELECT WHITE BIRCH VENEER (OR AS REQUIRED TO MOST CLOSELY MATCH EXISTING) ON EXPOSED TO VIEW FACES. 3. PLYWOOD UNDERLAYMENT: FOR LAMINATED PLASTIC AND SOLID SURFACE FABRICATIONS, AWI SECTION 200, BACKING GRADE, MILL OPTION FACE VENEERS. 4. LAMINATED PLASTIC: 1/16" THICK, MEETING REQUIREMENTS OF NEMA GA50 GRADE 10/HCS. 5. GLUE: HEAVY-DUTY CONSTRUCTION ADHESIVE, MEETING SOUTHCOAST AIR QUALITY MANAGEMENT DISTRICT RULE 1168 VOC LIMITS. 6. GROMMETS: 1-PIECE ROUND WITH SPRING CLOSURE; 2-3/8" DIAMETER HOLE, NO. 429-99-726, BY H'A'FELE AMERICA, ARCHDALE, NC / 800-423-3531, OR EQUAL. MINIMUM OF ONE (1) PER EACH DESK SURFACE. 7. BULLET-RESISTIVE FIBERGLASS PANELS: EQUAL TO ARMORTEX NO. O.F. 300, AS MANUFACTURED BY SAFEGUARD SECURITY SERVICES LTD. / SAN ANTONIO, TX. (A) NOMINAL THICKNESS - 7/16" (B) NOMINAL WEIGHT - 4.0 LBS/SQ. FT. (C) WEAPON RATING - 44 MAGNUM (D) N.I.J. LEVEL IIIA B. FABRICATION SHALL BE IN ACCORDANCE WITH AWI SECTION 400, PREMIUM GRADE FOR TRANSPARENT FINISH WHERE EXPOSED TO VIEW SURFACES ARE EITHER PLYWOOD OR SOLID WOOD; LAMINATED PLASTIC COVERED WORK SHALL BE IN ACCORDANCE WITH AWI SECTION 400, PREMIUM GRADE.

STEEL FRAMES

- A. MATERIALS: 1. METAL DRYWALL FRAMES: (A) COMPLY WITH CS 242-62 (B) FRAMES SHALL BE KNOCK-DOWN TYPE, OF SIZES AND DESIGNS SHOWN ON THE DRAWINGS. (C) ALL FRAMES SHALL BE FORMED WITH 5/8" DEPTH INTEGRAL STOPS, UNLESS DETAILED OTHERWISE ON DRAWINGS, AND RABBETS AND SHALL HAVE A DOUBLE RETURN ON THE BACK BEND TO ALLOW FRAME TO BE ERECTED AFTER WALL IS IN PLACE AND SHALL BE DESIGNED SO AS TO GRIP WALL FIRMLY. (D) CORNERS SHALL BE MITERED AND REINFORCED AND LOCKED WITH SHEET METAL SCREWS ON THE HEADBAR RETURN TO INSURE POSITIVE LOCKING AND RIGID CORNERS. (E) HARDWARE REINFORCEMENTS: (1) FRAMES SHALL BE MORTISED, REINFORCED, DRILLED AND TAPPED AT THE FACTORY FOR FULLY TEMPLATED HARDWARE ONLY, IN ACCORDANCE WITH APPROVED HARDWARE SCHEDULE AND TEMPLATES PROVIDED BY THE CONTRACTOR; WHERE SURFACE-MOUNTED HARDWARE IS TO BE APPLIED, FRAMES SHALL HAVE REINFORCING PLATES ONLY; ALL DRILLING AND TAPPING SHALL BE DONE AT THE PROJECT SITE UNDER SECTION 08710. (2) MINIMUM THICKNESS OF HARDWARE REINFORCING PLATES SHALL BE AS FOLLOWS: HINGE: 7 GAUGE STRIKE: 10 GAUGE FLUSH BOLT: 12 GAUGE CLOSER: 12 GAUGE SURFACE MOUNTED HARDWARE: 12 GAUGE

- (F) JAMBS SHALL BE FURTHER STRENGTHENED BY TWO HEAVY GAUGE STIFFENERS TO PROVIDE PROPER GRIPPING ACTION AND BEARING SURFACE AGAINST THE WALL. (G) ANCHORS (JAMB, SILL) SHALL BE MANUFACTURER'S STANDARD; SILL ANCHORS SHALL REQUIRE NO NOTCHING OF WALLBOARD. (H) THERE SHALL BE NO VISIBLE FASTENING DEVICES ALONG FACE OF RABBETS. (I) EACH DOOR FRAME STOP SHALL BE PUNCHED ON THE STRIKE SIDE TO RECEIVE RUBBER SILENCERS (3 PER FRAME FOR SINGLE DOORS AND 4 PER FRAME FOR DOUBLE DOORS). (J) DUST COVER: SHALL BE PROVIDED FOR STRIKE AND HINGE REINFORCING. (K) LOOSE STOPS SHALL BE AS SHOWN ON DRAWINGS AND FASTENED ACCORDING TO MANUFACTURER'S RECOMMENDATIONS. (L) FACTORY PRIMING: AFTER MANUFACTURED ALL TOOL MARKS AND SURFACE IMPERFECTIONS SHALL BE DRESSED, FILLED AND SANDED TO MAKE ALL SURFACES SMOOTH, LEVEL AND FREE OF ALL IRREGULARITIES AND THEN CHEMICALLY TREATED, TO ENSURE MAXIMUM PAINT ADHESION, AND COATED WITH A RUST-INHIBITIVE PRIMER, STANDARD WITH THE MANUFACTURER OF THE DRYWALL METAL FRAMES.

SOLID CORE FLUSH WOOD DOORS

- A. MATERIALS: 1. BASIS OF DESIGN: ARCHITECTURAL "SIGNATURE" SERIES WOOD DOORS AS MANUFACTURED BY MARSHFIELD DOOR SYSTEMS / MARSHFIELD, WI. (A) PRODUCT INFORMATION IS LISTED FOR REFERENCE PURPOSES TO ESTABLISH MATERIAL CHARACTERISTICS, QUALITY, AND FINISH. ALTERNATE MANUFACTURER'S PRODUCTS SHALL MEET OR EXCEED THE LISTED PRODUCTS. 2. DOOR CONSTRUCTION: (A) WORKMANSHIP: COMPLY WITH WDMA PREMIUM GRADE. (B) PERFORMANCE STANDARDS: COMPLY WITH WDMA I.S. 1A HEAVY DUTY PERFORMANCE LEVEL. (C) FACE VENEERS: 5-PLY, SELECT WHITE BIRCH OR AS REQUIRED TO MOST CLOSELY MATCH EXISTING. (1) NON-LABEL DOORS: PARTICLE-BONDED CORE, GRADE LO-2 (AWI SECT. 1300 PC-5). (D) VERTICAL EDGES: AWI SECTION 1300-S-4, PREMIUM GRADE, TO MATCH FACE VENEER. (E) TOP AND BOTTOM EDGES: MANUFACTURER'S STANDARD MILL OPTION HARDWOOD. (F) CROSS BANDS: MIN. 1/16-HIGH DENSITY HARDBOARD. (G) ADHESIVE: PER WDMA TM-6. B. FABRICATION: 1. NON-LABELED DOORS: MANUFACTURE TO THE DESIGNS SHOWN ON THE DRAWINGS, IN ACCORDANCE WITH AWI SECTION 1300, PREMIUM GRADE, TRANSPARENT FACTORY FINISH. 2. FACTORY MACHINE DOORS FOR HARDWARE THAT IS NOT SURFACE APPLIED, COMPLY WITH FINAL HARDWARE SCHEDULES, DOOR FRAME SHOP DRAWINGS, AND HARDWARE TEMPLATES. C. FACTORY-FINISH TO MEET OR EXCEED WDMA I.S. IA TR-6. 1. TRANSPARENT FINISH: (A) STAINING: COLOR TO MATCH EXISTING DOORS AS CLOSELY AS POSSIBLE. (B) FINISH: WDMA TR-6 CATALYZED POLYURETHANE.

FINISH HARDWARE

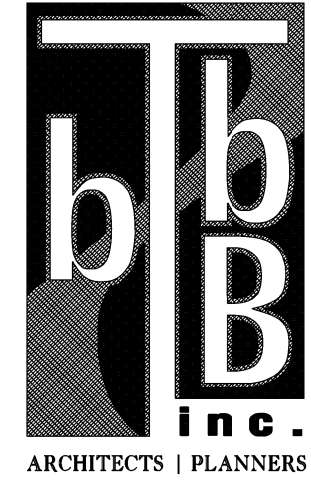
- A. LOCKSET DESIGN: SCHLAGE, LEVER HANDLES. B. FINISHES: FINISH TO MATCH EXISTING DOOR HARDWARE. C. INCLUDE A NET RELEASE AMOUNT OF \$8,000 FOR FINISH HARDWARE. D. FURNISH AND INSTALL PASSAGE SETS, LOCK SETS, PRIVACY SETS, PUSH/PULL PLATES, HINGES, CLOSERS, LOCKSET, AND STOPS, AS REQUIRED.

CARPET

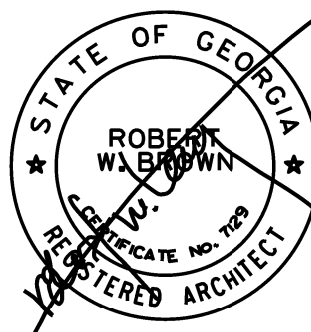
- A. PROTECT EXISTING CARPET TO REMAIN. B. NEW CARPET TO MATCH EXISTING, SHAW NO. 59594 "VEIL". C. REDUCERS: EQUAL TO MACLANBURG-DUNCAN, GAINESVILLE, GA; COLOR(S) AS SELECTED BY ARCHITECT FROM MANUFACTURER'S STANDARD COLORS. D. ADHESIVES: ONLY THAT AS RECOMMENDED BY THE MANUFACTURER OF PRODUCT BEING INSTALLED. ADHESIVES FOR CARPET SHALL MEET ERI GREEN LABEL PROGRAM STANDARDS.

GYPSUM BOARD SYSTEMS

- A. METAL STUDS: CHANNEL TYPE, ROLL FORMED FROM GALVANIZED STEEL, DESIGNED FOR SCREW ATTACHMENT OF GYPSUM WALLBOARD OF SIZES REQUIRED BY THE DRAWINGS AND OF GAUGES REQUIRED BY STUD SIZE, HEIGHT AND SPACING SHOWN ON THE DRAWINGS, BUT IN NO CASE LESS THAN 20 GAUGE; ALLOWABLE DEFLECTION L/360; STUDS TO HAVE 1/4-INCH DIAMETER SERVICE HOLE, 8 INCHES FROM END. B. METAL RUNNERS (FLOOR AND CEILING TRACK): GALVANIZED STEEL, IN WIDTH AND OF GAUGE OF STUDS WITH WHICH USED, 1/4-INCH UNHELMED LEGS.



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RENOVATIONS OF BIBB COUNTY COURTHOUSE MACON, GEORGIA

Table with 2 columns: Drawing Issue Schedule, Date, Description. Row 1: 4-7-2023, Permit Set.

Project No: 2022-44

Drawing Specifications G1.3

- C. METAL FURRING CHANNELS: 16 GAUGE COLD ROLLED STEEL, "C" SHAPE, OF SIZES REQUIRED BY THE DRAWINGS OR DESCRIBED HEREINAFTER
- D. METAL SCREW FURRING CHANNELS: 2 1/4" X 7/8" X 1-3/8" FACE WIDTH, GALVANIZED STEEL, WEIGHING NOT LESS THAN 292 LBS/MLF.
- E. FURRING CHANNEL CLIPS: GALVANIZED WIRE, MANUFACTURER'S STANDARD, ESPECIALLY DESIGNED FOR ATTACHING SCREW FURRING CHANNELS TO 1 1/2-INCH FURRING CHANNELS.
- F. HANGER WIRE: 9 GAUGE, GALVANIZED.
- G. GYPSUM WALLBOARD:
 1. FIRE RATED: 5/8 INCH THICK, TAPERED EDGE, MEETING REQUIREMENTS OF ASTM C36 FOR TYPE "X" PANELS AND FIRE ENDURANCE TEST AS OUTLINED IN ASTM C-473.
 2. MOISTURE RESISTANT: 5/8" THICK, TAPERED EDGE, MEETING THE REQUIREMENTS OF ASTM C-36.
- H. FASTENERS:
 1. FOR ATTACHING GYPSUM WALLBOARD TO WOOD FRAMING, FASTENERS SHALL BE 1 1/4-INCHES TYPE W COARSE THREAD WALLBOARD NAIL, CEMENT COATED.
 2. FOR ATTACHING GYPSUM WALLBOARD TO METAL FRAMING, FASTENERS SHALL BE 1-7/8 INCHES, TYPE S, BUGLE HEAD SCREWS, CADMIUM PLATED.
 3. FOR ATTACHING SCREW FURRING CHANNELS TO 1 1/2-INCH FURRING CHANNELS, FASTENERS SHALL BE MANUFACTURER'S STANDARD FURRING CHANNEL CLIP.
 4. FOR ATTACHING METAL RUNNERS AND SCREW FURRING CHANNELS TO CONCRETE OR MASONRY SHALL BE POWER ACTUATED TYPE CAPABLE OF WITHSTANDING 192 POUNDS OF SINGLE SHEAR AND 200 POUNDS BEARING FORCE WITHOUT EXCEEDING ALLOWABLE STRESS DESIGN OF FASTENER OR MEMBER BEING FASTENED.
 5. FOR ATTACHING FRAMING MEMBERS TOGETHER SHALL BE TYPE S, PAN-HEAD SCREWS IN SIZES RECOMMENDED BY THE METAL STUD MANUFACTURER FOR APPLICATIONS REQUIRED.
 6. FOR ATTACHING METAL RUNNERS TO STRUCTURAL STEEL SHALL BE POWER ACTUATED TYPE AS RECOMMENDED BY THE METAL STUD MANUFACTURER FOR APPLICATIONS REQUIRED.
- I. ACCESSORIES:
 1. OUTSIDE CORNER BEAD: ALL METAL, HOT-DIPPED GALVANIZED, 1" X 1" AND WEIGHING NOT LESS THAN 114 POUNDS PER MLF.
 2. CASING BEAD: ALL METAL, HOT-DIPPED GALVANIZED, 7/8 INCH FLANGE, "C" SHAPED, CAPABLE OF BEING TAPED AND FINISHED AND WEIGHING NOT LESS THAN 165 POUNDS PER MLF.
 3. INSIDE CORNER REINFORCEMENT: PERFORATED FIBER TAPE WITH CHAMFERED WAFER-THIN EDGES, 2-1/16 INCHES WIDE AND MEETING ASTM C475.
 4. RESILIENT FURRING CHANNELS: FABRICATED OF GALVANIZED STEEL WITH EXPANDED METAL LEGS; APPROVED FOR FIRE-RATED CONSTRUCTION.
- J. TAPE: PERFORATED FIBER TAPE WITH CHAMFERED WAFER-THIN EDGES, 2-1/16" WIDE AND MEETING ASTM C475.
- K. JOINT COMPOUND: READY-MIXED COMPOUND, MEETING ASTM C475.
- L. SEALANT: SEALANT IS FURNISHED UNDER SECTION 07900.
- M. SOUND ATTENUATION BLANKETS:
 1. WALLS: EQUAL TO OWEN CORNING SOUND ATTENUATION BATTS, MEETING ASTM C 665, TYPE I AND ASTM E 136, UNFACED, FLAME SPREAD 10, SMOKE DEVELOPED 10, 3 1/2" THICK.
 2. CEILINGS: EQUAL TO OWENS-CORNING "SONOBATTS" UNFACED GLASS FIBER INSULATION, MEETING ASTM C 665, TYPE I AND ASTM E 136, FLAME SPREAD 10, SMOKE DEVELOPED 10, 3 1/2" THICK.
- N. INSTALLATION:
 1. INSTALLATION OF METAL RUNNERS (FLOOR AND CEILING TRACKS):
 - (A) ATTACH FLOOR RUNNERS WITH SPECIFIED FASTENERS SPACED NOT LESS THAN 24" O.C.
 - (B) ATTACH CEILING RUNNERS WITH THE SPECIFIED FASTENERS AT NOT LESS THAN 24" O.C. AND IN CONFORMANCE WITH THE DETAILS SHOWN ON THE DRAWINGS.
 2. INSTALLATION OF METAL STUDS:
 - (A) POSITION FULL LENGTH STUDS VERTICALLY, SPACES AS SHOWN ON THE DRAWINGS ENGAGING FLOOR AND CEILING TRACKS. ATTACH WITH SPECIFIED FASTENERS.
 - (B) IN GENERAL STUDS SHALL BE SPACED AT 16" O.C.
 - (C) PROVIDE DOUBLE STUDS AT INTERIOR AND EXTERIOR CORNERS, EXPANSION JOINTS, PARTITION TERMINATIONS AND WITHIN 2" OF DOOR AND BORROWED LITE OPENINGS IN PARTITIONS. LOCATE NEXT STUD NOT MORE THAN 6" FROM DOUBLE STUDS.
 - (D) SECURE ABUTTING AND INTERSECTING WALLS WITH FASTENERS THROUGH STUD FLANGES.
 - (E) FOR HORIZONTAL REINFORCEMENT BETWEEN STUDS AND AT DOOR AND BORROWED LITE FRAMES, INSTALL CUT-TO-LENGTH RUNNER SECTIONS WITH SLIT FLANGES SECURED TO STUDS.
 3. INSTALLATION OF SOUND ATTENUATION BLANKETS: INSTALL IN ALL METAL STUD WALLS WHERE SHOWN ON PLANS, FULL HEIGHT OF PARTITION.
 4. INSTALLATION OF GYPSUM WALLBOARD:
 - (A) INSTALL WALLBOARD IN ACCORDANCE WITH MANUFACTURER'S PRINTED INSTALLATION INSTRUCTIONS, EXCEPT WHERE MORE STRINGENT REQUIREMENTS ARE SPECIFIED.

- (B) USE WALLBOARD OF MAXIMUM LENGTHS TO MINIMIZE END JOINTS.
 - (C) STAGGER END JOINTS WHEN THEY OCCUR.
 - (D) ABUT WALLBOARDS WITHOUT FORCING. FIT ENDS AND EDGES OF WALLBOARD. DO NOT PLACE BUTT ENDS AGAINST TAPERED EDGES.
 - (E) SUPPORT END AND EDGES OF WALLBOARD PANELS ON FRAMING OR FURRING MEMBERS.
 - (F) AT CEILINGS, APPLY WALLBOARD WITH LONG DIMENSION AT RIGHT ANGLES TO FRAMING.
 - (G) AT WALLS AND COLUMNS, APPLY WALLBOARD HORIZONTALLY, ATTACHING UPPER BOARD FIRST; STAGGER END JOINTS ON OPPOSITE SIDES OF PARTITIONS.
 - (H) FASTEN WALLBOARD TO FRAMING MEMBERS, USING THE SPECIFIED FASTENERS SPACED AS RECOMMENDED BY THE MANUFACTURER OF THE WALLBOARD BEING INSTALLED FOR THE SPECIFIC INSTALLATION.
 - (I) ALL GYPSUM BOARD SHALL BE 5/8" TYPE "X" GYPSUM BOARD EXCEPT AT NEW RESTROOM WALLS.
 - (J) INSTALL 5/8" MOISTURE-RESISTANT GYPSUM BOARD AT ALL NEW RESTROOM WALLS.
5. INSTALLATION OF ACCESSORIES:
- (A) INSTALL CORNER BEADS AT ALL OUTSIDE CORNERS.
 - (B) INSTALL METAL CASING BEADS AT EXPOSED EDGES OF WALLBOARD AT DOOR AND WINDOW OPENINGS, AT INTERSECTIONS WITH OTHER MATERIALS AND AT OTHER LOCATION SHOWN ON THE DRAWINGS.
6. INSTALLATION OF SEALANT: CAULK ALL PERIMETER JOINTS, ELECTRICAL BOXES AND PENETRATIONS WITH SPECIFIED SEALANT.
- O. JOINT TREATMENT:
1. TAPING OR EMBEDDING JOINTS:
 - (A) APPLY COMPOUND TO THIS UNIFORM LAYER TO ALL JOINTS AND ANGLES. CENTER TAPE OVER JOINT AND SET TAPE INTO COMPOUND; LEAVE APPROXIMATELY 1/16 INCH TO 1/32-INCH COMPOUND UNDER TAPE TO PROVIDE BOND.
 - (B) APPLY SKIM COAT FOLLOWING TAPE EMBEDMENT, BUT NOT TO FUNCTION AS FILL OR SECOND COAT; FOLD TAPE AND EMBED IN ANGLES TO PROVIDE TRUE ANGLE. DRY EMBEDDING COAT PRIOR TO APPLICATION OF FILL COAT.
 2. FILLING:
 - (A) APPLY JOINT COMPOUND OVER EMBEDDING COAT TO COVER TAPE. FEATHER OUT FILL COAT BEYOND TAPE AND PREVIOUS JOINT COMPOUND LINE.
 - (B) DO NOT APPLY FILL COAT ON INTERIOR ANGLES.
 - (C) ALLOW FILL COAT TO DRY PRIOR TO APPLICATION OF FINISH COAT.
 3. SMOOTH FINISH: TYPICAL WALL FINISH.
 - (A) SPREAD JOINT COMPOUND OVER AND BEYOND FILL COAT ON ALL JOINTS. FEATHER TO SMOOTH UNIFORM FINISH.
 - (B) APPLY FINISH COAT TO TAPED ANGLES TO COVER TAPE AND TAPING COMPOUND.
 - (C) SAND FINAL APPLICATION OF COMPOUND TO PROVIDE SMOOTH SURFACE READY.
 4. FINISHING BEADS AND TRIM:
 - (A) FIRST FILL COAT: APPLY JOINT COMPOUND TO BEADS AND TRIM. FEATHER OUT FROM GROUND TO PLANE OF THE SURFACE; DRY COMPOUND PRIOR TO APPLICATION OF SECOND FILL COATS.
 - (B) SECOND FILL COAT: APPLY JOINT COMPOUND IN SAME MANNER AS FIRST FILL COAT. EXTEND BEYOND FIRST COAT ONTO FACE OF WALLBOARD; DRY COMPOUND PRIOR TO APPLICATION OF FINISH COAT.
 - (C) FINISH COAT: APPLY JOINT COMPOUND TO BEAD AND TRIM; EXTEND BEYOND SECOND FILL COAT; FEATHER FINISH COAT FROM GROUND TO PLANE OF SURFACE; SAND FINISH COAT TO PROVIDE FLAT SURFACE READY FOR DECORATION.
 5. FILLING AND FINISHING DEPRESSIONS:
 - (A) APPLY JOINT COMPOUND AS FIRST COAT TO FASTENER DEPRESSIONS; APPLY AT LEAST TWO (2) ADDITIONAL COATS OF COMPOUND AFTER FIRST COAT IS DRY.
 - (B) LEAVE FILLING AND FINISHED DEPRESSIONS LEVEL WITH PLANE OF WALLBOARD.

SUSPENDED ACOUSTICAL TILE CEILINGS

- A. ACOUSTICAL TILE TO MATCH EXISTING.
- B. SOUND ATTENUATION BLANKETS: EQUAL TO OWENS CORNING "SONO BATTS", UNFACED GLASS FIBER INSULATION, MEETING ASTM C665, TYPE 1 AND ASTM E136, FLAME SPREAD 10, SMOKE DEVELOPED 10, 3 1/2" THICK. INSTALL ABOVE ALL NEW ACOUSTICAL TILE CEILINGS.
- C. HANGER WIRE: 12 GAUGE, GALVANIZED.
- D. DIRECT LOAD CEILING CLIP: MANUFACTURER'S STANDARD.
- E. TILE MARKERS/ADHESIVE:
 1. ROSETTES: 2" DIAMETER X 1/16" THICK ALUMINUM WITH WHITE BAKED ENAMEL FINISH.
 2. ADHESIVE: EPOXY COMPATIBLE WITH CEILING TILE WITH WHICH USED.
- H. HOLD-DOWN CLIPS: MANUFACTURER'S STANDARD.
 1. INSTALL AT ALL RESTROOM CEILINGS

RESILIENT FLOORING

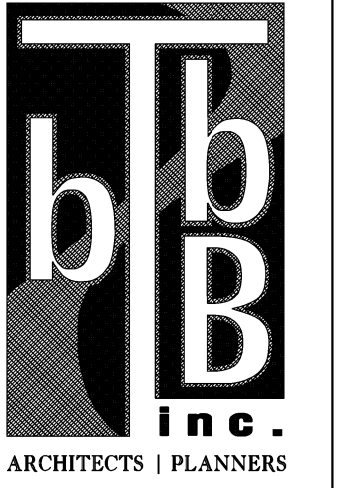
- A. LUXURY VINYL TILE (LVT) EQUAL TO SHAW CONTRACT "TERRAIN II", 20 MIL, 0454V, 6" X 48", MEETING ASTM D2946 SLIP-RESISTANCE, ASTM E662 NBS SMOKE (-450), CLASS III, TYPE B; 10-YEAR COMMERCIAL WARRANTY.
- B. RESILIENT BASE: SET-ON COVE TYPE, 4" HIGH X 1/8" THICK, OF HOMOGENEOUS VINYL AND CONFORMING TO FF SS-W-40A, TYPE II WITH OUTSIDE CORNERS. COLOR SELECTIONS WILL BE SELECTED TO COORDINATE WITH TILE SELECTIONS.
- C. NEUTRAL DIVIDING STRIPS: COMPOSED OF VINYL RESINS AND MINERAL FIBERS, 2 INCHES WIDE X 1/8 INCH THICK, UNLESS SPECIFICALLY NOTED OTHERWISE, IN LENGTHS AS REQUIRED ON THE DRAWINGS AND MEETING FS SS-T-312B (1), TYPE IV, COMP. 1.
- D. NEUTRAL EDGING STRIPS: COMPOSED OF VINYL RESINS AND MINERAL FIBERS, 2 INCHES WIDE X 1/8 INCH THICK, UNLESS SPECIFICALLY NOTED OTHERWISE, IN LENGTHS AS REQUIRED ON THE DRAWINGS, BULLNOSED ONE EDGE AND MEETING FS SSOT 312B (1), TYPE IV, COMP. 1.
- E. LEVELING UNDERLAYMENT: ONLY THAT AS RECOMMENDED BY THE MANUFACTURER OF THE VINYL MATERIAL BEING INSTALLED.
- F. ADHESIVE: ONLY THAT RECOMMENDED BY THE MANUFACTURER OF MATERIAL BEING INSTALLED. ADHESIVES SHALL HAVE VOC CONTENT OF 25 G/L OF LESS.

FIBERGLASS REINFORCED PLASTIC (FRP) PANELS

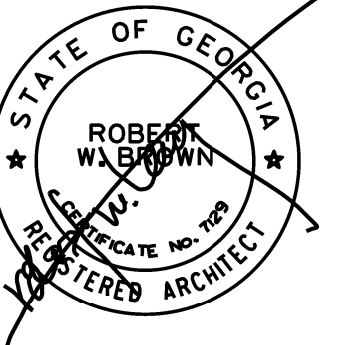
- A. BASIS OF DESIGN: STRUCTOGLAS FLAT FIBERGLASS REINFORCED PLASTIC COMPOSITE (FRP) PANELS AS MANUFACTURED BY CRANE COMPOSITES, INC.
- B. FRP PANELS:
 1. RATING: SURFACE BURNING CLASSIFICATION: CLASS A; FLAMESPREAD (ASTM E84) - 25 OR LESS; SMOKE DEVELOPED (ASTM E84) - 450 OR LESS.
 2. FINISH, THICKNESS: SMOOTH 0.09 INCH.
 3. DIMENSIONAL TOLERANCES
 - (A) WIDTH AND LENGTH: 1/8-INCH (3.2 MM).
 - (B) THICKNESS: +/- 10%
 - (C) SQUARENESS: NOT MORE THAN 1/8-INCH (3.2 MM) OUT OF SQUARE.
 4. PERFORMANCE PROPERTIES:
 - (A) MEETS USDA/FSIS REQUIREMENTS.
 - (B) BARCOL HARDNESS (ASTM D2583): 20-30
 5. ACCESSORIES: MOULDING, TRIM, ETC., AS REQUIRED FOR COMPLETE FINISHED INSTALLATION; MATCH PANEL COLOR.
 6. INSTALL OVER M.R. GYPSUM BOARD.

SIGNAGE

- A. INTERIOR SIGNAGE: DESIGN IS BASED ON PRODUCTS MANUFACTURED BY SCOTT SIGN SYSTEMS, INC., TALLEVAST, FL.
 1. RESTROOM SIGNAGE: DESIGN IS BASED ON ADA APPROVED, 8" X 6" X 1/8" THICK, INJECTED ACRYLIC MOLDED PLAQUES, WITH INTEGRAL FRAME. SIGN TO CONTAIN THE WORD "UNISEX", PICTOGRAM, HANDICAP SYMBOL (WHERE APPLICABLE), AND GRADE 2 BRAILLE. LETTERS SHALL BE A MINIMUM 5/8" HIGH INTEGRAL COPY, RAISED 1/32". COLOR WILL BE AS SELECTED BY ARCHITECT. LETTERS AND PICTOGRAMS SHALL BE OF SAME COLOR ON CONTRASTING BACKGROUND. SIGNS SHALL BE MOUNTED WITH (VHB) VERY HIGH BOND TAPE FASTENED TO BACK OF PLAQUE.
 - (A) LOCATE ADJACENT TO NEW RESTROOM DOORS.
 2. INCLUDE AN ALLOWANCE OF TWO THOUSAND DOLLARS (\$2,000) TO FURNISH AND INSTALL ADDITIONAL INTERIOR SIGNAGE, AS NEEDED.



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RENOVATIONS OF
BIBB COUNTY COURTHOUSE
 MACON, GEORGIA

Drawing Issue Schedule	
4-7-2023	Permit Set
Project No:	2022-44

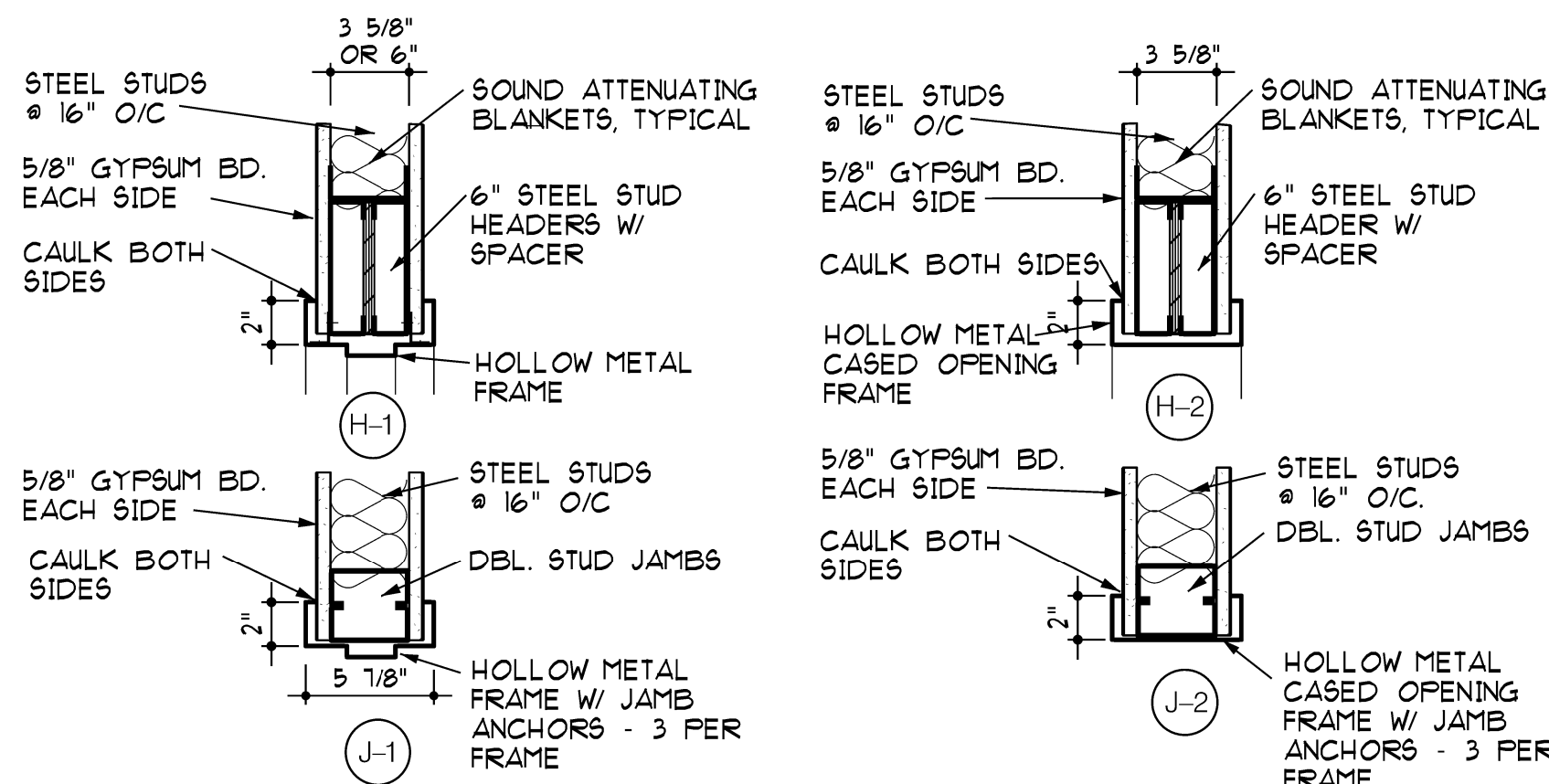
Drawing Specifications

G1.4

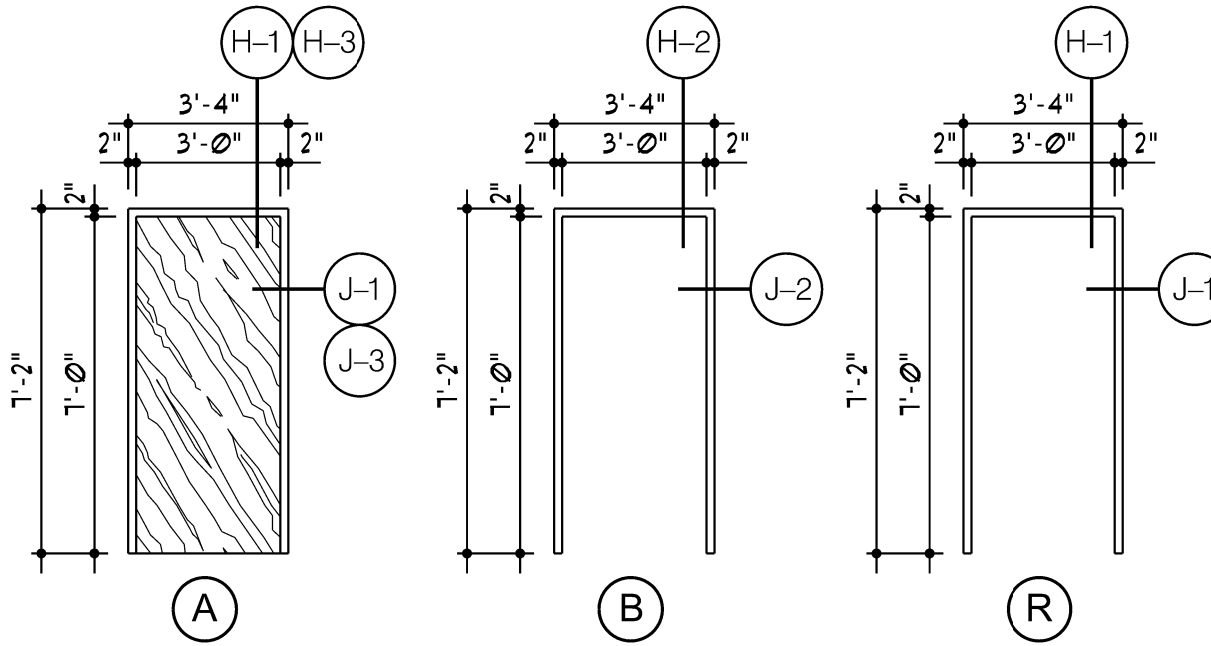
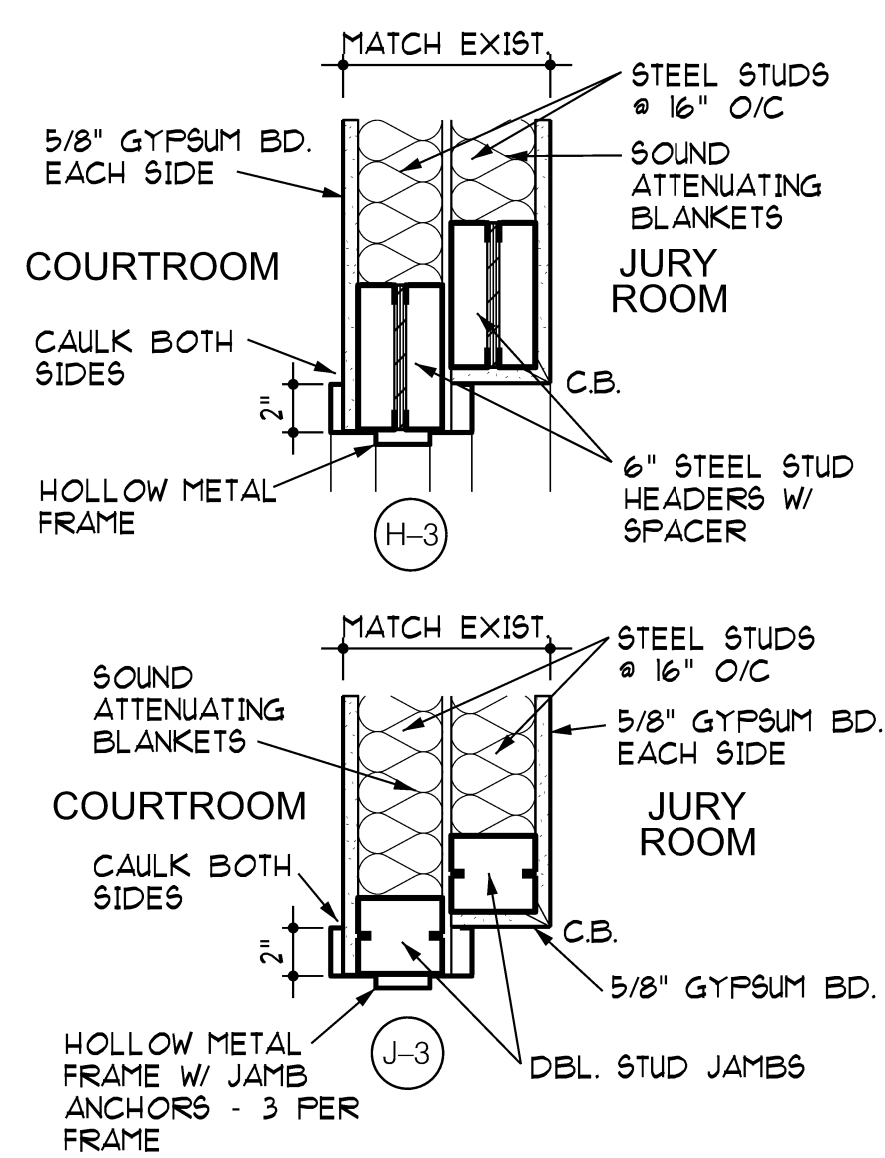
RM. No.	ROOM NAME	FLOOR		BASE		WALLS		CHAIRRAIL			CEILING			REMARKS
		MATERIAL	FINISH	MATERIAL	FINISH	MATERIAL	FINISH	MATERIAL	FINISH	HEIGHT	MATERIAL	FINISH	HEIGHT	
501	PRISONER WAITING	EXISTING	CLEAN	EXISTING/MATCH EX.	MATCH EX.	EXISTING / GYPSUM BD.	PAINT							NOTE 3.
502	VESTIBULE	CARPET	CLEAN	EXISTING/MATCH EX.	PAINT	EXISTING / GYPSUM BD.	PAINT							
503	STATE COURTROOM B	EXISTING	CLEAN	EXISTING/MATCH EX.	PAINT NEW	EXISTING / GYPSUM BD.	PAINT NEW	WOOD - MATCH EX.	PAINT NEW	EX.	EXISTING			NOTE 3.
503A	JURY ROOM	EXISTING		EXISTING		EXISTING					EXISTING			
504	JUDGE'S OFFICE	LVP	CLEAN	EXISTING	CLEAN	EXISTING					EXISTING			
505	HALL	LVP	CLEAN	EX. WOOD/MATCH EX.	PAINT	EXISTING / GYPSUM BD.	PAINT				AC. TILE	FAC.	9'-0"	
506	RESTROOM	LVP	CLEAN	RESILIENT	CLEAN	EXISTING / GYPSUM BD.	PAINT				AC. TILE	FAC.	9'-0"	
507	RESTROOM	LVP	CLEAN	RESILIENT	CLEAN	GYPSUM BD.	PAINT				AC. TILE	FAC.	9'-0"	
508	JURY ROOM	CARPET	CLEAN	WOOD	PAINT	EXISTING / GYPSUM BD.	PAINT				AC. TILE	FAC.	9'-0"	
509	PASSAGE	CARPET	CLEAN	WOOD	PAINT	EXISTING / GYPSUM BD.	PAINT				AC. TILE	FAC.	9'-0"	
510	STATE COURTROOM C	EX. CARPET/LVP	CLEAN	EX. WOOD/WOOD	PAINT	EXISTING / GYPSUM BD.	PAINT	WOOD	PAINT	2'-8" 3/4"	EXISTING			
511	LAWYER /CLIENT	CARPET	CLEAN	RESILIENT	CLEAN	EXISTING / GYPSUM BD.	PAINT				AC. TILE	FAC.	8'-0"	
512	LAWYER /CLIENT	CARPET	CLEAN	RESILIENT	CLEAN	EXISTING / GYPSUM BD.	PAINT				AC. TILE	FAC.	8'-0"	
513	CORRIDOR	EXISTING		EXISTING		EXISTING / GYPSUM BD.	PAINT				EXISTING			NOTE 3.

ABBREVIATIONS
AC. TILE ACOUSTICAL TILE
EX. EXISTING
FAC. FACTORY
GYPSUM BD. GYPSUM BOARD
LVP LUXURY VINYL PLANK

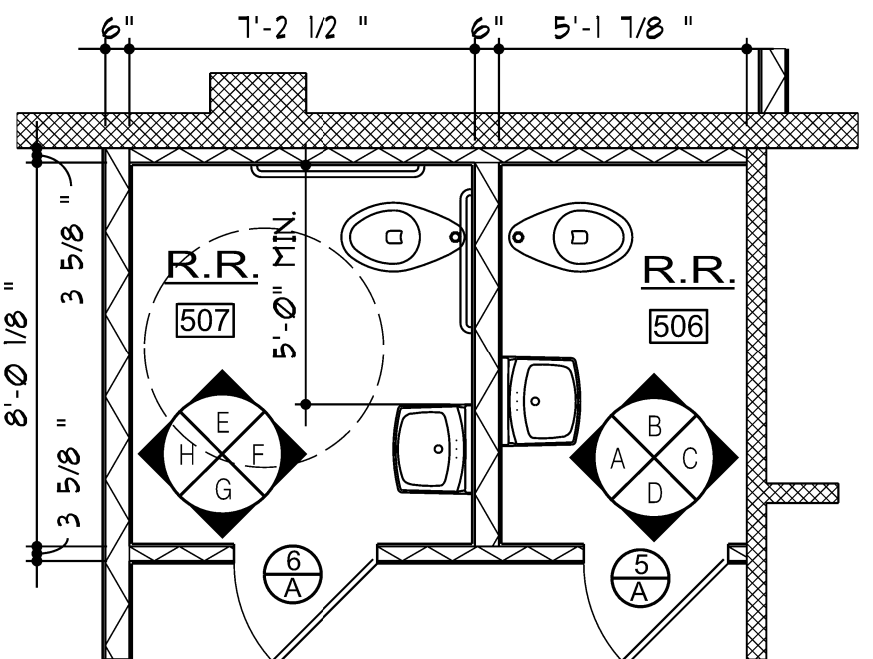
NOTES:
1.) ALL FINISHES ARE NEW UNLESS NOTED SPECIFICALLY AS "EXISTING".
2.) ALL REMAINING EXISTING ACOUSTICAL TILES TO BE CHECKED FOR DAMAGE, MISSING OR DISCOLORATION AND REPLACED.
3.) PAINT NEW WORK - CORNER TO CORNER



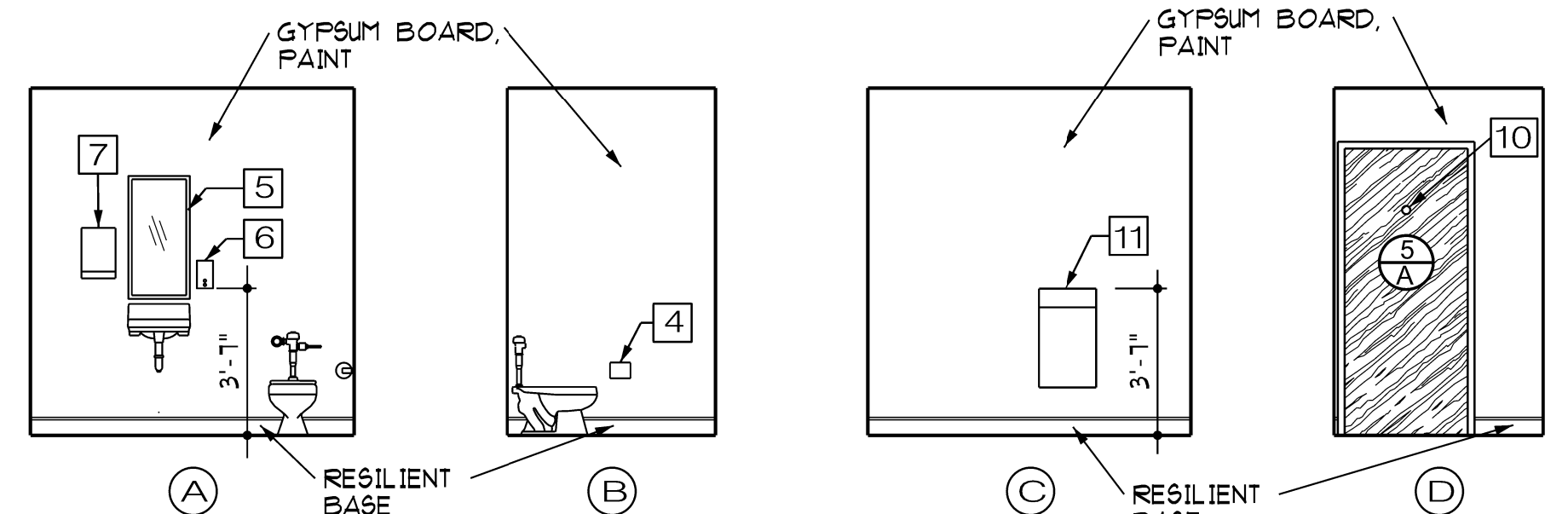
DOOR DETAILS
1 1/2" = 1'-0"



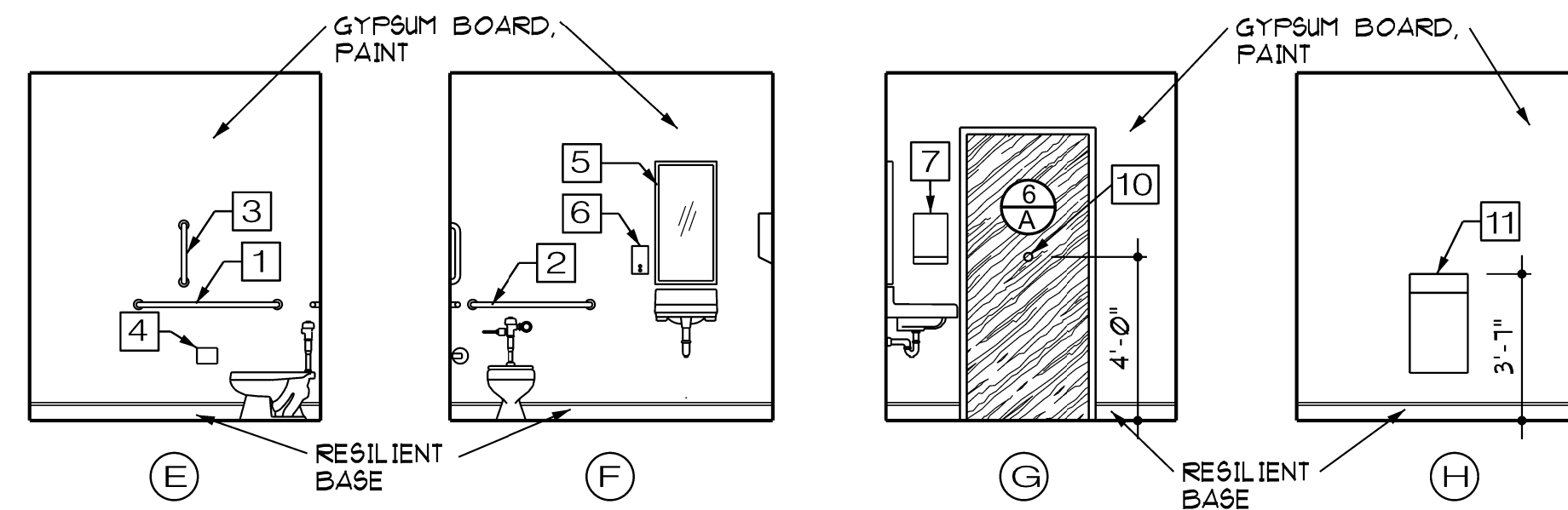
DOOR & FRAME TYPES
1/4" = 1'-0"



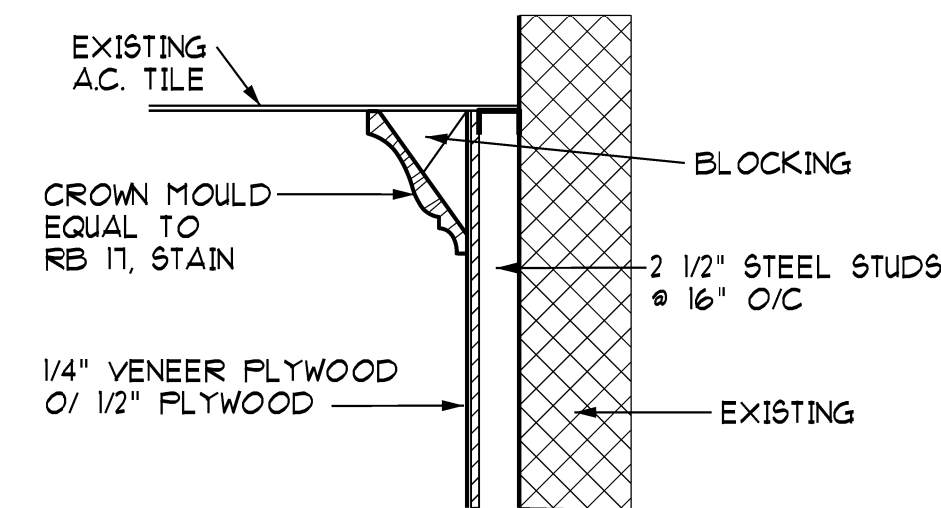
RESTROOMS 506 & 507
1/4" = 1'-0"



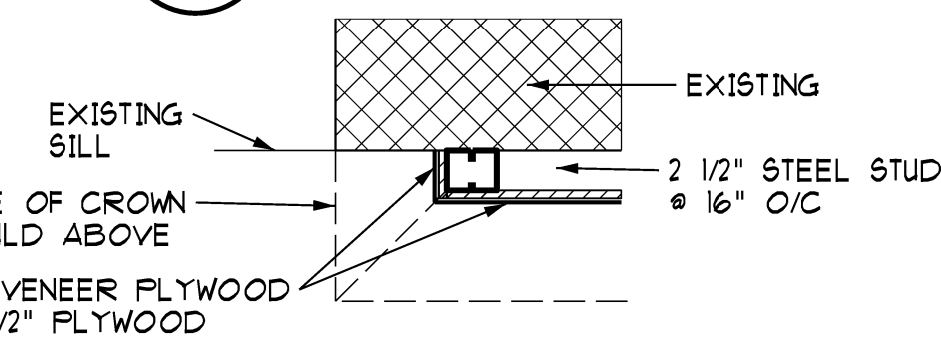
RESTROOM 506



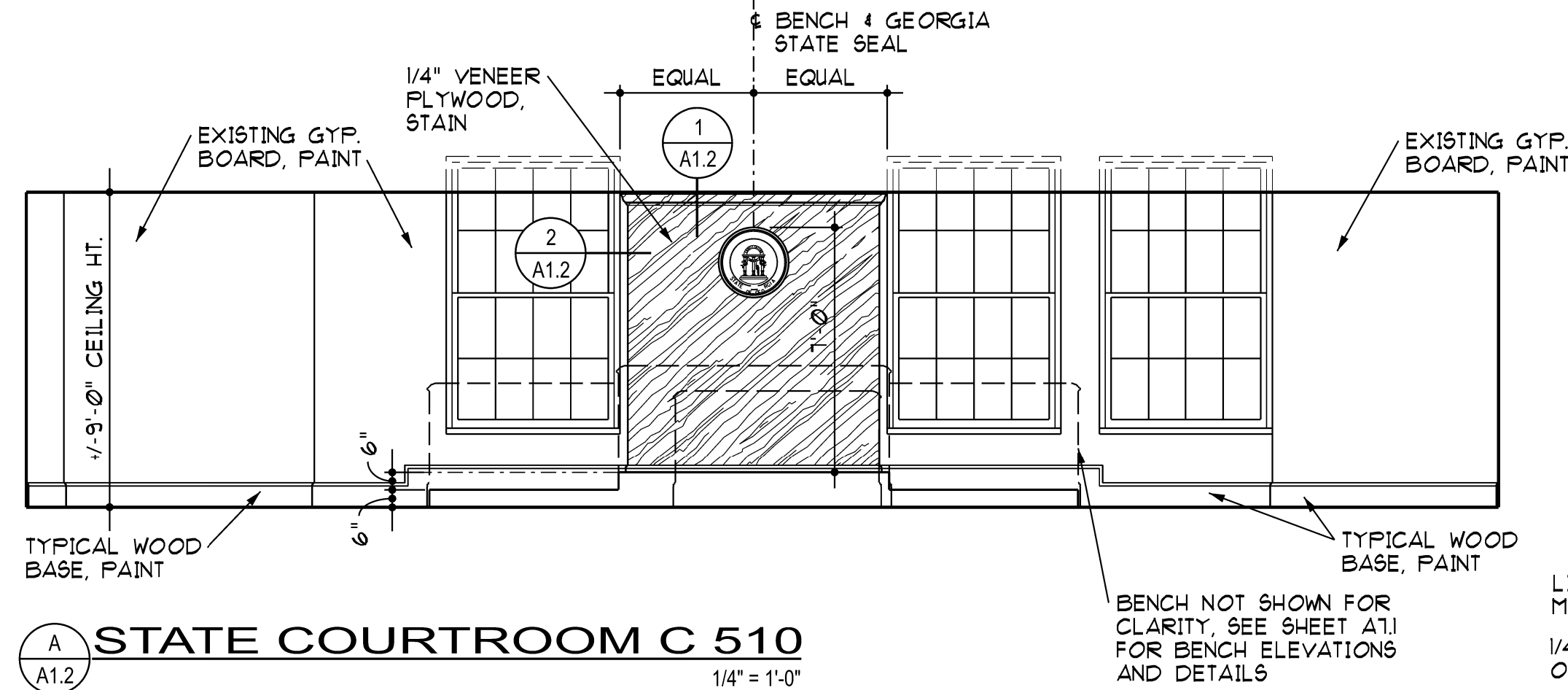
RESTROOM 507



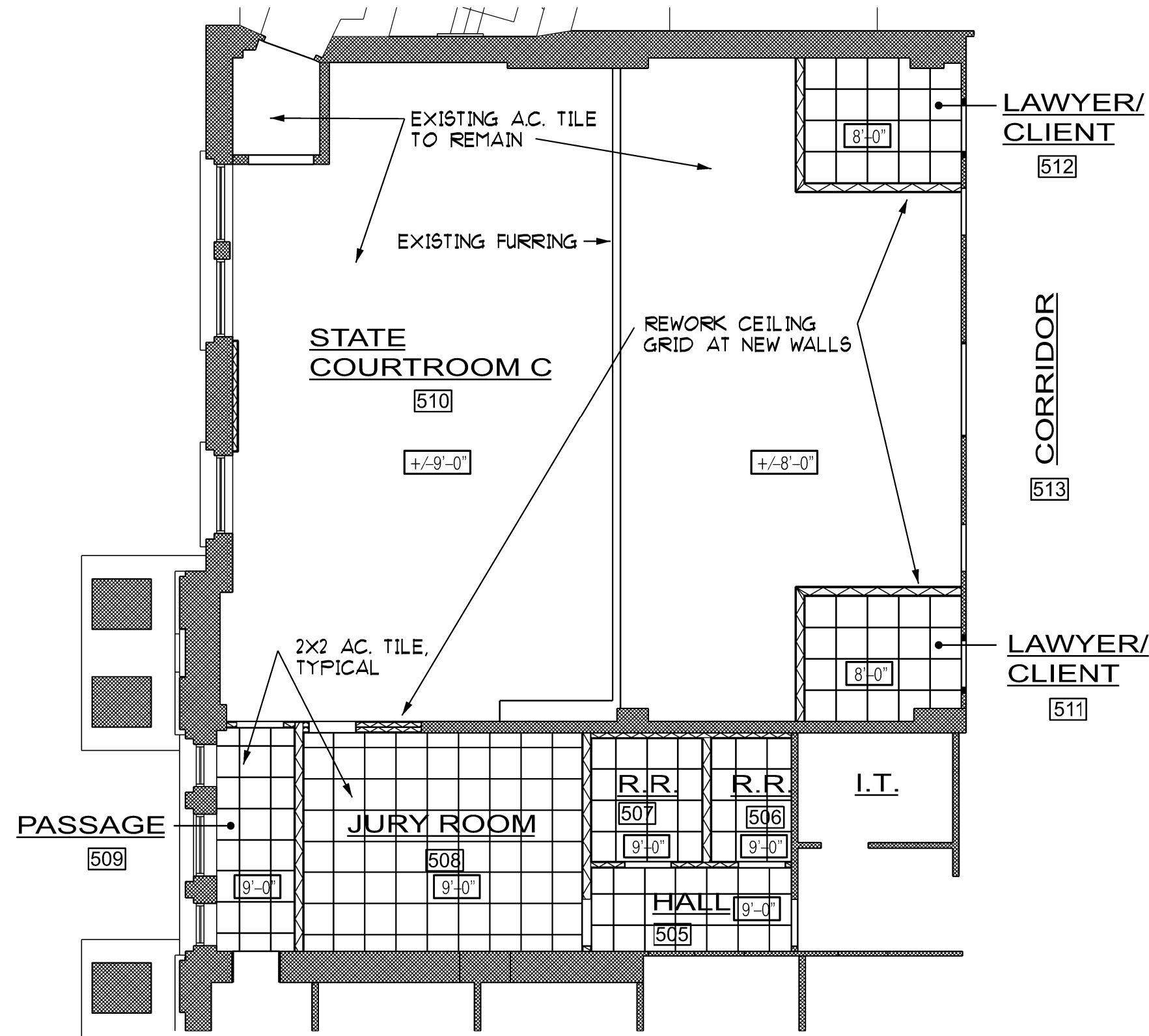
1 FURRING DETAIL
1" = 1'-0"



2 FURRING DETAIL
1" = 1'-0"



INTERIOR ELEVATIONS
1/4" = 1'-0"



PARTIAL 5TH FLOOR REFLECTED CEILING PLAN
1/8" = 1'-0"

TYPICAL WOOD BASE
1/2 FULL SCALE

NOTES:
1. VERIFY & MATCH EXISTING WOOD BASE AT ADJACENT CONDITIONS.
2. PROVIDE SHOE MOULD AT ALL FLOORING EXCEPT CARPET.

SCHEDULE OF TOILET ACCESSORIES										
ITEMS	NO.	DESCRIPTION	QTY	QTY	QTY	QTY	QTY	QTY	QTY	QTY
	1	42" GRAB BAR - 3200 SERIES								
	2	36" GRAB BAR - 3200 SERIES								
	3	18" VERTICAL GRAB BAR-3200 SERIES								
	4	ROLL PAPER HOLDER - 0263-1								
	5	18" x 36" FRAMED MIRROR - 0620								
	6	SOAP DISPENSER - FURN. BY OWNER								
	7	PAPER TOWEL DISPENSER - FURN. BY OWNER								
	8	NOT USED								
	9	NAPKIN DISPOSAL - 0852								
	10	COAT HOOK - 7301								
	11	TRASH RECEPTACLE - 20826								

NOTES:
1. ANY ACCESSORIES NOT SHOWN SHALL BE LOCATED AS DIRECTED BY ARCHITECT.
2. REFER TO SHEET G1.2 FOR ACCESSORY MOUNTING HEIGHTS, EXCEPT WHERE SHOWN OTHERWISE.
3. PROVIDE BLOCKING AT ALL TOILET ACCESSORIES AS REQUIRED. BLOCKING SHALL BE 2x8 @ HORIZONTAL GRAB BARS. - (SEE G1.2)
4. MIRRORS SHALL BE MOUNTED SO THAT REFLECTIVE EDGE IS MAX. 40" ABOVE FINISHED FLOOR.
5. ACCESSORY NUMBERS ARE AMERICAN SPECIALTIES OR EQUAL.

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STATE OF GEORGIA
ROBERT WALSHAW
REGISTERED PROFESSIONAL ARCHITECT
EXPIRES 12-31-2024

The delivery of this drawing should not be construed to provide any express warranty or guarantee to anyone that all dimensions, details, etc. are exact or to indicate that the use of this drawing implies any review and approval of the design professional for any future use. Any use of the information on this drawing is at the sole risk and liability of the user.

RENOVATIONS OF
BIBB COUNTY COURTHOUSE
MACON, GEORGIA

Drawing Issue Schedule	
4-7-2023	Permit Set
Project No:	2022-44

Finish Schedule, Door & Frame Types & Details, Interior Elevations & Partial Reflected Ceiling Plan
A1.2

PROJECT: 5/2022-44 Courthouse Renovations/Working Drawings/2022-44 A1.2 Finish Schedule, Door & Frame Types & Details, Interior Elevations, Partial Reflected Ceiling Plan.dgn
1/6/2023

PLUMBING SPECIFICATIONS

Provide all plumbing items indicated on the drawings, described herein or otherwise required for a complete and proper installation, including:

- A. Plumbing fixtures, fittings and equipment.
- B. Hot and cold water systems.
- C. Drain waste and vent piping systems.
- D. Indirect waste piping, including all valves, traps, piping and accessories for all equipment. Size per equipment requirements.

Comply with all applicable codes, standards and ordinances, including requirements of the Georgia State Minimum Standard Plumbing Code (2018 International Plumbing Code with all Georgia State Amendments), Georgia State Minimum Standard Energy Code (2015 International Energy Conservation Code with all Georgia State Amendments), and the DOJ 2010 ADA Standards for Accessible Design.

The contractor should not attempt to precisely scale dimensions from these drawings to obtain construction dimensions and clearances. The contractor shall verify all actual dimensions and clearances. Although these plans are diagrammatic in nature, they shall be followed as closely as site conditions, new construction, and work by other trades shall permit. Deviations from these drawings, which are required to conform to the available space or to actual building construction, shall be made at no additional cost to the owner.

The submission of a bid or proposal will be construed as evidence that the contractor has familiarized himself with the plans and building site. Claims made subsequent to the proposal for materials and/or labor due to difficulties encountered will not be recognized unless these difficulties could not have been foreseen, even though proper examination had been made.

Fabrication or ordering of any material or equipment prior to verification of site conditions shall be done at the contractor's risk.

All equipment and material shall be new and of first quality. Equipment and material shall be the same or equal to the basis of design listed on these drawings.

Coordinate with all trades and verify all equipment rough-in items and locations with the equipment supplier or contractor. All re-work and corrections required due to lack of coordination shall be the contractor's responsibility, and done at no cost to the owner.

Submit shop drawings and material data submittals to the engineer for approval before installation. No substitutions shall be allowed without prior approval by the engineer. Product data for piping, insulation, valves, specialties and all fixtures and equipment scheduled and specified here. For each submittal for review, allow 15 days excluding delivery time to and from the Contractor.

All equipment and flue materials shall be U.L. listed.

Installation shall comply with manufacturer requirements including all clearances recommended for proper operation of service. All serviceable parts shall be readily accessible.

Above ground Sanitary drain and vent piping shall be domestic ASTM A 888 or CISPI 301 hubless cast iron soil pipe and fittings with heavy duty ASTM C 1277 and ASTM C 1540 hubless-piping couplings; and coupled joints. Install cast-iron soil piping according to CISPI's "Cast Iron Soil Pipe and Fittings Handbook," Chapter IV, "Installation of Cast Iron Soil Pipe and Fittings." Slope at 1/8 inch per foot continuously toward public sewer. All aboveground piping shall be adequately supported.

Insulate aboveground floor drains, traps, and sanitary drain piping within 10 feet of drain receiving condensate and equipment drain water below 60" with 1" thick type I performed glass-fiber pipe insulation, 1-1/2" cellular glass, or 1" flexible elastomer.

All hot and cold domestic water piping shall be ASTM B88 type L or M smooth hard drawn copper tubing with wrought copper fittings. Exception: piping downstream of beverage backflow preventer shall be Schedule 40 PVC pipe ASTM D 1785 with ASTM D 2466 PVC Socket Fittings. All piping shall be adequately supported. Disinfect all domestic water piping after installation. Prevent dissimilar metal contact between copper pipe and ferrous pipe support components.

DOMESTIC WATER PIPING CLEANING

- A. Clean and disinfect potable domestic water piping as follows:
 - 1. Purge new piping and parts of existing piping that have been altered, extended, or repaired before using.
 - 2. Use purging and disinfecting procedures prescribed by authorities having jurisdiction; if methods are not prescribed, use procedures described in either AWWA C651 or AWWA C652 or follow procedures described below:
 - a. Flush piping system with clean, potable water until dirty water does not appear at outlets.
 - b. Fill and isolate system according to either of the following:
 - 1) Fill system or part thereof with water/chlorine solution with at least 50 ppm (50 mg/L) of chlorine. Isolate with valves and allow to stand for 24 hours.
 - 2) Fill system or part thereof with water/chlorine solution with at least 200 ppm (200 mg/L) of chlorine. Isolate and allow to stand for three hours.
 - c. Flush system with clean, potable water until no chlorine is in water coming from system after the standing time.
 - d. Repeat procedures if biological examination shows contamination.
 - e. Submit water samples in sterile bottles to authorities having jurisdiction.
- B. Prepare and submit reports of purging and disinfecting activities. Include copies of water-sample approvals from authorities having jurisdiction.
- C. Clean interior of domestic water piping system. Remove dirt and debris as work progresses.

Domestic water piping shall be insulated with Owens Corning type ASJ/SSL-II heavy density fiber glass with all service jacket. Insulation shall have a flame spread rating not to exceed 25 and a smoke density not to exceed 50 when tested in accordance with U.B.C. standard 42-1. Provide mastic on all joints and exposed ends of insulation. Insulate domestic cold water piping in unconditioned spaces such as exterior corridors, attic, basements, etc with 1/2" thick insulation for piping 1-1/4" & smaller and 1" thick insulation for piping 1-1/2" & larger. Insulate all domestic hot water supply and return piping with 1" thick insulation for piping 1-1/4" & smaller and 1-1/2" thick insulation for piping 1-1/2" & larger.

Fixture tailpieces, wall escutcheon, and traps for lavatories and sinks shall be brass tubing, semi-cast, or cast iron: All brass tubing shall be 17 gage, chrome plated. Exception: If the fixture tailpieces and traps are located in cabinets, the tailpiece & trap shall be PVC. Grid drains for public lavatories. Basket strainers for break room sinks.

Water Hammer Arresters shall comply with standard ASSE 1010, metal bellows type or copper piston type.

Lavatory Supports shall be type II, lavatory carrier with concealed arms and tie rod for wall-mounting, lavatory-type fixture. Include steel uprights with feet. For accessible- fixture support include rectangular steel uprights.

Lavatory/ Sink supply fittings: NSF Standard: Comply with NSF/ANSI 61 Annex G, "Drinking Water System Components – Health Effects," for supply-fitting materials that will be in contact with potable water. Standard: ASME A112.18.1/CSA B125.1. Supply Stops: Chrome-plated-brass, one-quarter-turn, ball-type valve with inlet connection matching supply piping. Wheel handle operation. Risers: Chrome-plated, soft-copper flexible tube for exposed applications and ASME A112.18.6, braided- or corrugated-stainless-steel, flexible hose for conceal behind cabinet applications.

Provide ADA Supply and Drain Protective Shielding Guards on ADA fixtures that piping is exposed. Supply and Drain Protective Shielding Guards shall comply with ICC A117.1 and Americans with Disabilities Act (ADA) requirements. Manufactured plastic wraps shall cover hot and cold water supplies, trap, and drain piping.

All pipe hangers, clamps and channels shall be adequately sized to carry pipe loads and prevent sagging.

All other materials not specifically described but required for a complete and proper installation of work of this section, shall be new, first quality of their respective kinds, and as selected by the contractor subject to acceptance by the engineer.

Lay out the plumbing system in careful coordination with the drawings, determining proper elevations for all components of the system and using only the minimum number of bends to produce a satisfactorily functioning system. Follow the general layout shown on the drawings in all cases except where other work may interfere. Unless shown otherwise, lay out all pipes to fall within partition, wall floor, or roof cavities, and to not require furring other than as shown on the drawings.

Do not cut into or reduce the size of any load-carrying member without the prior approval of the architect. Install all pipes to clear all beams and obstructions.

Permanently close and make weatherproof any openings or penetrations of the building envelope made for plumbing systems. All wall and floor penetrations shall be sleeved. All exterior wall or foundation wall penetrations shall use a mechanical seal.

Coordinate all roof penetrations with architectural plans and building and roofing trades.

Provide shut-off balls valves and unions at all water connections to equipment and appliances.

Isolate all dissimilar metals with "EPCO" dielectric unions, except for brass or bronze valves with steel pipe.

Protect the potable water supply against backflow and siphonage from equipment, fixtures, etc., using approved backflow and anti-siphon devices.

Thoroughly clean all piping and equipment. Removing all dirt, rust, oil, and plaster.

Test Sanitary drainage piping by plugging all openings and filling with water to a height equal to a 10 foot head. Allow to stand one hour or longer as required. Repair leaking joints and then re-test.

No work shall be covered until it has been inspected and accepted by the local authority and the engineer.

Domestic water piping tests: Fill domestic water piping. Check components to determine that they are not air bound and that piping is full of water. Test for leaks and defects in new piping and parts of existing piping that have been altered, extended, or repaired. Leave new, altered, extended, or replaced domestic water piping uncovered and uncease until it has been tested and approved. Expose work that was covered or concealed before it was tested. Cap and subject piping to static water pressure of 50 psig (345 kPa) above operating pressure, without exceeding pressure rating of piping system materials. Isolate test source and allow it to stand for four hours. Leaks and loss in test pressure constitute defects that must be repaired. Repair leaks and defects with new materials, and retest piping or portion thereof until satisfactory results are obtained.

The entire system shall be warranted for a period of one (1) year beginning with Owner's acceptance of the work. All labor and materials necessary to repair or replace the system, or portions thereof, during that time shall be warranted for a period of one (1) year from the repair or replacement.

Install piping in concealed locations, unless otherwise indicated and except in equipment rooms, and service areas. Install piping indicated to be exposed and piping in equipment rooms and service areas at right angles or parallel to building walls. Diagonal runs are prohibited unless specifically indicated otherwise. Install piping above accessible ceilings to allow sufficient space for ceiling panel removal. Install piping to permit valve servicing. Install piping at indicated slopes. Install piping free of sags and bends. Install fittings for changes in direction and branch connections. Install piping to allow application of insulation. Select system components with pressure rating equal to or greater than system operating pressure. Install escutcheons for penetrations of walls, ceilings, and floors. Verify final equipment locations for roughing-in.

Confirm that millwork is constructed with adequate provision for the installation of counter top lavatories and sinks.

Seal fixtures to wall and floor surfaces with sealant, color to match fixture.

All vents thru roof (VTR) shall be offset a minimum of 10'-0" from all outside air intakes.

Provide Plastic Pipe Markers on all aboveground plumbing piping that Comply with ASME A13.1. Minimum information indicating flow direction arrow and identification of fluid being conveyed. Install labeling on pipe at intervals of not more than 20 feet and at least once in each room.

Provide a complete through penetration fire stopping assembly for fire resistance rated wall assemblies. The through penetration assembly must be listed by an approved third-party test agency (UL), and include the entire listed assembly with all notations. Refer to architectural drawings for fire wall locations.

Approved manufactures: (Items submitted shall be approved by architect and engineer. Architect and engineer reserve the right to reject any item substituted for basis of design item for any reason.)

- China Fixtures: American Standard, Kohler, Toto, Zurn, Sloan
- Faucets: Delta, T&S Brass, Chicago Faucets, Zurn, Kohler, Grohe, Moen, Speakman, Symmons
- Supplies & Traps: Engineered Brass CO., McGuire, Charlotte Pipe, Brasscraft, IPS, Watts, Zurn
- Flush Valves: Sloan, Delany, Zurn, American Standard
- Floor Drains & Cleanouts: Zurn, Jay R Smith, Proset, Watts, Mifab, Wade, Josam, Sioux Chief, Oatey
- Tankless Electric Water Heaters: A.O. Smith, Rheem, Eemax, Chronomite
- Toilet Seats: Bemis, Centoco, Church Seats, Olsonite, Beneke, Zurn, Mainline
- ADA Protective Shielding Pipe Covers: Engineered Brass, McGuire, Plumberex, TRUEBRO, Zurn, Oatey
- Fixture Supports: MIFAB, Jay R. Smith, Wade, Watts, Zurn
- Water Hammer Arresters: AMTROL, Josam, MIFAB, PPP, Sioux Chief, Jay R. Smith, Wade, Watts, Zurn
- Outlet Boxes: Acorn, IPS, Oatey
- Brass Valves: American, Crane, Watts, Apollo

FIXTURE AND EQUIPMENT SCHEDULE									
#	FIXTURE TYPE	WASTE		WATER SUPPLY		WATER FIX. CONN.		MODEL NUMBER	
		BELOW FLOOR	FIXTURE CONN.	COLD	HOT	COLD	HOT		
WC	ADA FLOOR MOUNTED FLUSH VALVE WATER CLOSET 1.28 GPF	3"	3"	1"	/	/	1"	/	AMERICAN STANDARD 3043.001 WATER CLOSET. SLOAN 111 ESS-1.28-XL-OR-HW FLUSH VALVE WITH FACTORY TRANSFORMER. BEMIS 1655SSCT SEAT.
LAV	ADA WALL-HUNG LAVATORY 0.5 GPM	2"	1-1/4"	1/2"	1/2"	1/2"	1/2"	AMERICAN STANDARD 0955.001EC LAVATORY WITH 0059.020EC SHROUD/KNEE CONTACT GUARD. SLOAN SF-2100-4-PLG-BDM-CP-0.5GPM-MLM-IR-FCT FAUCET.	
FD	FLOOR DRAIN WITH WATERLESS TRAP PRIMER	3"	3"	/	/	/	/	WATTS FD-100-A-3-NH-A5-60 FLOOR DRAIN. RECTORSEAL "SURESEAL PLUS" WATERLESS TRAP PRIMER.	
HB	HOSE BIBB	/	/	3/4"	/	/	3/4"	WOODFORD 74.	

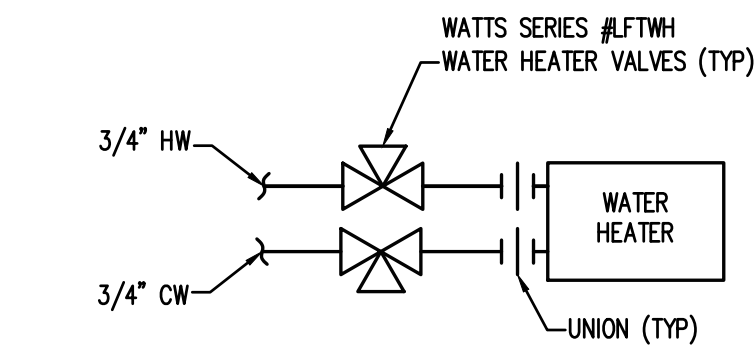
WATER HEATER SCHEDULE				
MARK	MANUFACTURER	MODEL NUMBER	TYPE	BTUH/KW
WH	CHRONOMITE	CM-30L/208	TANKLESS ELECTRIC	208/1 6.24 KW

GENERAL PLUMBING NOTES:

DRAWINGS FOR ENGINEERING WORK HAVE BEEN PREPARED USING "AS-BUILT" DOCUMENTS. NEITHER THE OWNER NOR THE ENGINEER WARRANT THESE TO BE "AS-BUILT" DOCUMENTS AND ACTUAL CONDITIONS AT THE SITE MAY VARY.

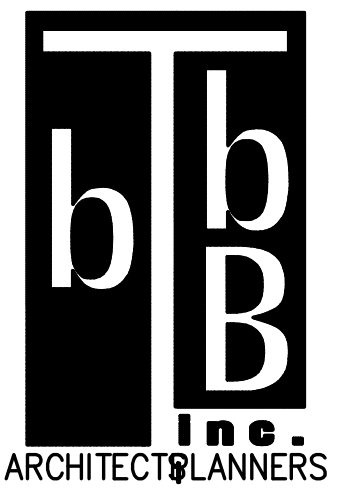
THE WORK INDICATED IS INTENDED TO SHOW THE GENERAL SCOPE OF DEMOLITION/NEW WORK AND IN NO WAY RELIEVES THE CONTRACTOR FROM PROVIDING ANY AND ALL WORK REQUIRED TO COMPLETE THE DEMOLITION/NEW WORK.

WHERE SURFACES ARE DAMAGED BY DEMOLITION, SHALL BE REPAIRED TO MATCH EXISTING (IN MATERIAL, SIZE, ALIGNMENT, JOINT WORK, FINISHES, COLOR, TEXTURE, QUALITY, ETC.) SUCH SURFACES IT DOES NOT INTERFERE WITH NEW WORK OF OTHER TRADES.

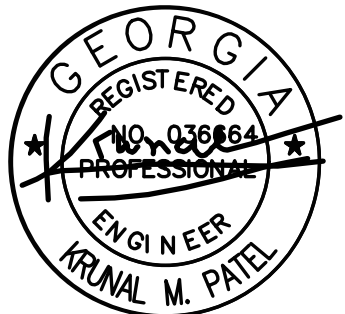


WATER HEATER PIPING SCHEMATIC
SCALE: N.T.S.

LEGEND			
	BALL VALVE	----	COLD WATER
	CHECK VALVE	----	HOT WATER
	BALANCING VALVE	----	HOT WATER RETURN
	PIPE UP	----	VENT
	PIPE DOWN	----	SEWER
	PDI UNIT	CW	COLD WATER
	WATER HAMMER ARRESTOR	HW	HOT WATER
	FINISHED FLOOR ELEVATION	HW	HOT WATER RETURN
	TYPICAL	HWR	HOT WATER RETURN
	NOT TO SCALE	VTR	VENT THRU ROOF
	UNDERGROUND	G	NATURAL GAS



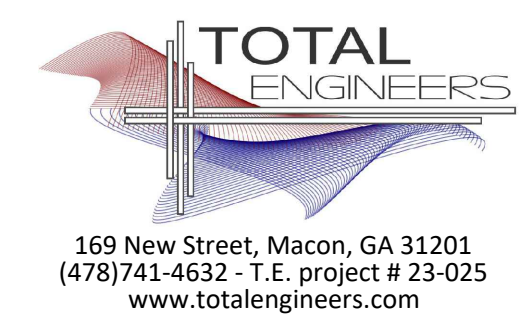
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RENOVATIONS OF
MACON-BIBB COUNTY COURTHOUSE
 CORNER MULBERRY & SECOND STREET, MACON, GEORGIA

Drawing Issue Schedule	
4-7-2023	Permit Set
Project No:	2022-44



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PLUMBING SPECIFICATIONS
P0.1

FIRE PROTECTION BASIC MATERIALS AND METHODS (FIRE PROTECTION SECTION 1 OF 2)

PART 1 GENERAL

1.1 SECTION INCLUDES

A. Pipe, fittings, valves, and connections for combination sprinkler and standpipe systems.

1.2 REFERENCES

- A. ASME B16.1 – Gray Iron Pipe Flanges and Flanged Fittings: Classes 25, 125, and 250; The American Society of Mechanical Engineers.
- B. ASME B16.3 – Malleable Iron Threaded Fittings; The American Society of Mechanical Engineers.
- C. ASME B16.4 – Gray Iron Threaded Fittings; The American Society of Mechanical Engineers.
- D. ASME B16.5 – Pipe Flanges and Flanged Fittings; The American Society of Mechanical Engineers; (ANSI/ASME B16.5).
- E. ASTM A 47/A 47M – Standard Specification for Ferritic Malleable Iron Castings.
- F. ASTM A 53/A 53M – Standard Specification for Pipe, Steel, Black and Hot-Dipped, Zinc-Coated, Welded and Seamless.
- G. ASTM A 795/A 795M – Standard Specification for Black and Hot-Dipped Zinc-Coated (Galvanized) Welded and Seamless Steel Pipe for Fire Protection Use.
- H. NFPA 13 – Standard for the Installation of Sprinkler Systems; National Fire Protection Association.
- I. NFPA 24 – Standard for the Installation of Private Fire Service Mains and Their Appurtenances; National Fire Protection Association.
- J. NFPA 72 – National Fire Alarm Code.
- K. NFPA 101 – Code for Safety to Life from Fire in Buildings and Structures.
- L. Georgia State Minimum Standard Fire Prevention Code (International Fire Code), 2012 Edition, with Georgia State Amendments.
- M. UL (FPED) – Fire Protection Equipment Directory; Underwriters Laboratories Inc.; current edition.
- N. UL 282 – Gate Valves for Fire-Protection Service; Underwriters Laboratories Inc..
- O. Chapter 120–3–3 of the Rules of the Safety Fire Commissioner.
- P. Georgia State Minimum Standard Building Code (International Building Code), 2018 Edition, with Georgia State Amendments. NFPA Code, where more stringent, shall take precedence.

1.3 SUBMITTALS

- A. Product Data: Provide manufacturers catalogue information. Indicate valve data and ratings.
- B. Shop Drawings: Indicate pipe materials used, joining methods, supports, floor and wall penetration seals. Indicate installation, layout, weights, mounting and support details, and piping connections.
- C. Project As-Built Documents: Record actual locations of components and tag numbering.
- D. Operation and Maintenance Data: Include installation instructions and spare parts lists.

1.4 QUALITY ASSURANCE

- A. Fire Protection
 - 1. The Contractor expressly warrants that the company performing the installation of the fire protection systems has demonstrated proficiency in the installation, start-up and adjustment of such systems by the successful performance of work of the nature specified herein on at least 5 commercial or institutional buildings, each containing minimum of 10,000 ft² of protected area or greater.
 - 2. The Contractor further warrants that the aforesaid subcontractor has trained personnel, instruments, tools, and equipment to perform the installation specified.
 - 3. The Contractor also warrants that the aforesaid installer has been in business performing services of the nature specified herein for at least five years.
 - 4. Provide a certificate of competency as issued by the Georgia State Fire Marshal's Office.
- B. Conform to UL and FM requirements.
- C. Valves: Bear UL and FM label or marking. Provide manufacturer's name and pressure rating marked on valve body.
- D. Products Requiring Electrical Connection: Listed and classified as suitable for the purpose specified and indicated.

1.5 DELIVERY, STORAGE, AND PROTECTION

- A. Deliver and store valves in shipping containers, with labeling in place.
- B. Provide temporary protective coating on cast iron and steel valves.
- C. Provide temporary end caps and closures on piping and fittings. Maintain in place until installation.

1.6 EXTRA MATERIALS

- A. Provide additional materials as provided in these specifications and by NFPA.

PART 2 PRODUCTS

2.1 GENERAL SYSTEM AND PRODUCT REQUIREMENTS

- A. Sprinkler Systems: Conform work to NFPA 13.
- B. Standpipe and Hose Systems: Conform to NFPA 14.
- C. Welding Materials and Procedures: Conform to ASME Code.
- D. Building is light hazard, ordinary hazard group, and extra hazard group. Pipe sizes shall be hydraulically calculated based upon flow test to be conducted by contractor.
- E. Provide hydraulic calculations over the most remote 1500 square feet providing density required for hazard as indicated in NFPA 13. Minimum discharge pressure shall be 7.0 PSI. Minimum residual pressure at city water main in the street shall be 20.0 PSI. Provide 100 PSI minimum safety margin in hydraulic calculations at design point. Design area reduction per NFPA 13 is not allowed.
- F. Basis of design: Contractor shall perform, or have performed, a Fire Flow and Twenty Four Hour Static Test to assure flow equals or exceeds specified basis of design flow rate prior to preparing shop drawings, installing system or performing calculations. Prepare calculations based on confirmed flow data or basis of design flow data, whichever is lowest. Flow test shall be performed in accordance with NFPA 13 and Rules and Regulations of Safety Fire Commissioner, O.C.G.A. Chapter 120–3–3. Modify flow test pressures (static and residual), if pressure recorded in 24 hour test is lower than flow test pressures for one hour duration, to lowest hour test pressure.
- G. No pipe shall be routed above electrical panels and equipment as required by National Electrical Code, on control side or beneath suspended mechanical equipment except where specifically required by Code, in which case, provisions shall be made for service access.
- H. Inspectors test connection(s) shall discharge to the outside of the building in location(s) acceptable to the Architect.
- I. Inside auxiliary drains, if needed, shall discharge in location(s) acceptable to the Architect. Drain and test connection piping, if in finished space, shall be installed concealed.

2.2 BURIED PIPING

- A. Refer to Civil plans and specifications for piping type.

2.3 ABOVE GROUND WET SYSTEM PIPING

- A. Steel Pipe: ASTM A 795 Schedule 10 or ASTM A 53 Schedule 40, block. Piping 2" and smaller shall be threaded. Piping 2 1/2" and larger shall be grooved with rigid couplings.
 - 1. Cast Iron Fittings: ASME B16.1, flanges and flanged fittings and ASME B16.4, threaded fittings.
 - 2. Malleable Iron Fittings: ASME B16.3, threaded fittings and ASTM A 47/A 47M.
 - 3. Mechanical Grooved Couplings: Rigid malleable iron housing clamps to engage and lock, "C" shaped elastomeric sealing gasket, steel bolts, nuts, and washers; galvanized for galvanized pipe. Reducing couplings are NOT allowed.
- B. PIPE HANGERS AND SUPPORTS
 - A. Hangers for Pipe Sizes 1/2 to 1-1/2 inch: Malleable iron, adjustable swivel, split ring.
 - B. Hangers for Pipe Sizes 2-inches and Over: Carbon steel, adjustable, clevis.
 - C. Multiple or Trapeze Hangers: Steel channels with welded spacers and hanger rods.
 - D. Vertical Support: Steel riser clamp.
 - E. Floor Support: Cast iron adjustable pipe saddle, lock nut, nipple, floor flange, and concrete pier or steel support.
 - F. Provide support for any vertical pipe 36" in length or greater except armovers. Provide supports 12'-0" O.C. maximum or at floor levels.
 - G. Threaded rods shall NOT be bent. Bending is permitted only in unthreaded sections of hanger rods. Bending shall occur as close to the hanger as possible. Provide a swivel assembly if required.

2.5 GATE VALVES

- A. Up to and including 2 inches:
 - 1. Manufacturers:
 - a. Nibco-Scott; Product T-104-0
 - b. Jenkins; Product 275J
 - c. Hammond; Product 1B681
 - d. Stockham; Product B-133
 - e. Kennedy; Product Fig. 66
 - 2. Bronze body, bronze trim, rising stem, handwheel, solid wedge or disc, threaded ends.
- B. Over 2 inches:
 - 1. Manufacturers:
 - a. Nibco-Scott; Product F-607-OTS
 - b. Crane; Product 467
 - c. Jenkins; Product 825-A
 - d. Hammond; Product 1R1154
 - e. Stockham; Product G-634
 - f. Kennedy; Product Fig. 68
 - 2. Iron body, bronze trim, rising stem pre-grooved for mounting tamper switch, handwheel, OS&Y, solid rubber covered bronze or cast iron wedge, flanged ends.

2.6 GLOBE VALVES

- A. Bronze body, rubber disc, union bonnet, 174 W.W.P., threaded ends.
- B. Up to and including 2 inches:
 - 1. Manufacturers:
 - a. Nibco-Scott; Product KT-65.
 - b. Kennedy; Product 97SD.
 - c. United; Product 125S.
 - d. Fairbanks; Product 4691-3.

2.7 ANGLE VALVES

- A. Bronze body, rubber disc, union bonnet, 174 non-shock cold water, threaded ends.
- B. Up to and including 2 inches:
 - 1. Manufacturers:
 - a. Nibco-Scott; Product T-301-W.
 - b. Kennedy; Product 985D.
 - c. United; Product 126S.
 - d. Fairbanks; Product 4691-3.

2.8 BUTTERFLY VALVES: Not allowed.

2.9 CHECK VALVES

- A. Iron body, U.L. Listed-F.M. Approved, swing type, bronze trimmed, bronze seat and disc, flanged ends.
 - B. Manufacturers:
 - 1. Jenkins; Product 629
 - 2. Crane; Product 375
 - 3. Stockham; Product G-939
 - 4. Mueller; Product A-2120-6
 - 5. Kennedy; Product #126

2.10 INDICATOR POSTS

- A. Cast iron base, top section, & cap; malleable iron wrench and locking device; steel stem; cast iron coupling; bronze target holder with aluminum "shut" and "open" targets; Underwriters Laboratories listed, and Factory Mutual approved; available for varying trench depths; and with adjustable depth features.
 - B. Manufacturers:
 - 1. Kennedy Fig. Series 741.
 - 2. Nibco NIP-1.
 - 3. Stockham G-951.
 - 4. Mueller A-20804.

2.11 UNDERGROUND GATE VALVES

- A. 2 1/2-inch and larger, iron body, non-rising stem, bronze stem, iron mounted disc with bronze rings, cast iron 2-inch square operating nut, flange, ends, ANMA spec. C-500.
 - B. Manufacturers:
 - 1. Kennedy Fig. 701X.
 - 2. Nibco F-609.
 - 3. Stockham G-635.
 - 4. Mueller A-2075-20.
 - 5. M & H Fig. 3067.

PART 3 EXECUTION

3.1 PREPARATION

- A. Ream pipe and tube ends. Remove burrs. Bevel plain end ferrous pipe.
- B. Remove scale and foreign material, from inside and outside, before assembly.
- C. Prepare piping connections to equipment with flanges or unions.
- D. Storage: All piping shall be stored above ground and protected to prevent dirt and debris from entering pipe.

3.2 INSTALLATION

- A. Install sprinkler system and service main piping, hangers, and supports in accordance with NFPA 13 and these specifications.
- B. Install standpipe piping, hangers, and supports in accordance with NFPA 14.
- C. Install post indicator valve (PIV) upstream of backflow device.
- D. Route piping in orderly manner, plumb and parallel to building structure. Maintain gradient.
- E. Install piping to conserve building space, to not interfere with use of space and other work.
- F. Group piping whenever practical at common elevations.
- G. All piping shall be installed above ceilings in a concealed manner except where no ceilings are present.
- H. Sleeve pipes passing through partitions, walls, and floors.
 - I. Install piping to allow for expansion and contraction without stressing pipe, joints, or connected equipment.
- J. Reducing Tees: Weld-on threaded outlet tees and Couplet-300 by Bonney Forge Division of Energy Products Group, Central Sprink 701, "TEE-LET" 300 by Merit Manufacturing Corp., NAP300 by North Alabama Pipe Corp., F400 by Grinnell Corp. may be used for side outlet reducing tees more than two pipe sizes smaller than main. Discs shall be retrieved and connected to pipe at point of cutting. Cutting shall comply with NFPA 13, Chapter 6.5.2.3.
- K. Couplings may be used on gridded systems at only one end of each gridded branch line or on 2 1/2" or larger riser nipple to 2" or smaller branch line to facilitate connection provided that the coupling is connected to piping by a cut groove. Rolled grooves are not acceptable.
- L. Pipe Hangers and Supports:
 - 1. Install hangers to provide minimum 1/2 inch space between finished covering and adjacent work.
 - 2. Place hangers within 12 inches of each horizontal elbow.
 - 3. Use hangers with 1-1/2 inch minimum vertical adjustment. Design hangers for pipe movement without disengagement of supported pipe.
 - 4. Support vertical piping at every floor. Support riser piping independently of connected horizontal piping.
 - 5. Where several pipes can be installed in parallel and at same elevation, provide multiple or trapeze hangers.
- M. Slope piping and arrange systems to drain at low points. Use eccentric reducers to maintain top of pipe level.
- N. Prepare pipe, fittings, supports, and accessories for finish painting. Where pipe support members are welded to structural building framing, scrape, brush clean, and apply one coat of zinc rich primer to welding.
- O. Do not penetrate building structural members unless indicated.
- P. Provide sleeves when penetrating floors and walls. Seal pipe and sleeve penetrations to achieve fire resistance equivalent to fire separation required.
- Q. When installing more than one piping system material, ensure system components are compatible and joined to ensure the integrity of the system. Provide necessary joining fittings. Ensure flanges, union, and couplings for servicing are consistently provided.
- R. Die cut threaded joints with full cut standard taper pipe threads with red lead and linned oil or other non-toxic joint compound applied to male threads only.
- S. Install valves with stems upright or horizontal, not inverted. Remove protective coatings prior to installation.
- T. Provide gate valves for shut-off or isolating service. No valve shall be installed with the centerline, if horizontal, or wheel, if vertical, more than 9'-0" AFF.
- U. Provide drain valves at main shut-off valves, low points of piping and apparatus.

3.3 CLEANING AND PROTECTION

- A. All materials, equipment and mechanical rooms shall be cleaned prior to the Final Inspection.
- B. Wash down and scrub clean all mechanical room floors, walls, equipment bases and equipment.
- C. Paint equipment where finish has been damaged requiring retouching of finish to match factory finish.
- D. Chipped or scraped paint shall be retouched to match original finish.
- E. All dents and sags in equipment casing shall be straightened.
- F. All equipment, pipe, pipe fittings and appurtenances shall be free of rust and stains prior to substantial completion.

3.4 FINISHING EQUIPMENT AND MATERIAL

- A. Use paint systems specified in Division 9 for the substrates to be finished.
- B. Paint shop-primed equipment.
- C. Re-install electrical cover plates, hardware, light fixture trim, escutcheons, and fittings removed prior to finishing.
- D. Paint all exposed pipes, unless otherwise indicated.
- E. All ferrous fasteners and hanger supports not having a corrosion resistant plated finish shall be painted to prevent rust.
- F. Paint all equipment, including that which is factory-finished, exposed to weather or to view on the roof and outdoors.
- G. Paint all exposed un-insulated ferrous materials.

END OF SECTION

FIRE SUPPRESSION SPRINKLERS (FIRE PROTECTION SECTION 2 OF 2)

PART 1 GENERAL

1.1 SECTION INCLUDES

- A. Wet Type Sprinkler System
- B. Dry-pipe sprinkler system.
- C. System design, installation, and certification.
- D. Fire department connections.

1.2 REFERENCES

- A. NFPA 13 – Standard for the Installation of Sprinkler Systems; National Fire Protection Association.
- B. NFPA 14 – Standard for the Installation of Standpipe and Hose Systems; National Fire Protection Association.

1.3 SUBMITTALS

- A. Product Data: Provide data on sprinklers, valves, and specialties, including manufacturers catalog information. Submit performance ratings, rough-in details, weights, support requirements, and piping connections.
- B. Shop Drawings:
 - 1. Indicate hydraulic calculations, detailed pipe layout, hangers and supports, sprinklers, components and accessories. Indicate system controls.
 - 2. Submit shop drawings, product data, and hydraulic calculations to Fire Marshal for approval and to Architect for review. Submit to Architect prior to submitting to Fire Marshal. Submit proof of approval to the Architect.
- C. Project As-Built Documents: Record actual locations of sprinklers and deviations of piping from drawings. Indicate drain and test locations. Provide two (2) CD and three (3) paper copies of as-built drawings.
- D. Manufacturer's Certificate: Certify that system has been tested and meets or exceeds specified requirements and code requirements. All certificates shall be signed by certificate holder.
- E. Operation and Maintenance Data: Include components of system, servicing requirements, record drawings, inspection data, replacement part numbers and availability, and location and numbers of service depot.

1.4 QUALITY ASSURANCE

- A. Maintain one copy of referenced design and installation standard on site.
- B. Conform to UL requirements.
- C. Equipment and Components: Provide products that bear UL label or marking.
- D. Products Requiring Electrical Connection: Listed and classified by Underwriters Laboratories Inc., as suitable for the purpose specified and indicated.

1.5 DELIVERY, STORAGE, AND PROTECTION

- A. Store products in shipping containers and maintain in place until installation. Provide temporary inlet and outlet caps. Maintain caps in place until installation.
- B. Store piping off floor and out of elements. Provide cover for piping to prevent dirt and debris from entering piping. Piping and fittings shall be rust free when installed.
- C. EXTRA MATERIALS
 - A. Provide extra sprinklers of type and size matching those installed, in quantity required by referenced NFPA design and installation standard.
 - B. Provide suitable wrenches for each sprinkler type.
 - C. Provide metal storage cabinet located at piping entrance to building.

PART 2 PRODUCTS

2.1 SPRINKLER SYSTEM REQUIREMENTS

- A. Sprinkler System: Provide coverage for entire building.
- B. Occupancy: comply with NFPA 13.
- C. Water Supply: Contractor shall perform or have performed an NFPA-13 water flow test data and a 24 hour static pressure test. Adjust flow test to lowest pressure recorded by 24 hour test of one hour duration.
- D. Interface system with building fire alarm system.
- E. Provide fire department connections where indicated on FP and civil drawings.

2.2 SPRINKLERS

- A. Tyco and affiliates, Automatic Sprinkler, Reliable, Viking.
- B. All sprinklers installed shall be by the same manufacturer.
- C. Contractor shall select temperature ratings in accordance with NFPA 13, paragraph 8.3.2.
- D. Suspended Ceiling Type: Recessed pendant type with matching flush push on escutcheon plate.
 - 1. Finish: Chrome plated.
 - 2. Escutcheon Plate Finish: Chrome plated.
 - 3. Quick Response Glass bulb type temperature rated for specific area hazard.
- E. Gypsum Board Ceiling Type: Concealed pendant type with matching push on escutcheon plate.
 - 1. Finish: Brass.
 - 2. Escutcheon Plate Finish: Enamel, Verify color with architect.
- F. Exposed Area Type: Standard upright type.
 - 1. Finish: Brass.
 - 2. Fusible Link: Quick Response Fusible solder link type temperature rated for specific area hazard.
- G. Sidewall Type: Standard horizontal sidewall type with matching flush push on two piece escutcheon plate.
 - 1. Finish: Chrome plated.
 - 2. Escutcheon Plate Finish: Chrome plated.
 - 3. Quick Response Fusible solder link type temperature rated for specific area hazard.
- H. Guards: Finish to match sprinkler finish.

2.3 PIPING SPECIALTIES

- A. Dry Pipe Sprinkler Alarm Valve: Check type valve with divided seat ring, rubber faced clapper to automatically actuate water motor alarm and electric alarm, with accelerator; with test and drain valve.
- B. Water Motor Alarm: Hydraulically operated impeller type alarm with aluminum alloy chrome plated gang and motor housing, nylon bearings, and inlet strainer. By some manufacturer as Alarm Valve.
- C. Electric Alarm: Electrically operated chrome plated gang with pressure alarm switch.
- D. Water Flow Switch: Vane type switch for mounting horizontal or vertical, with two contacts; rated 10 amp at 125 volt AC and 2.5 amp at 24 volt DC. Notifier, Simplex, Potter, Grinnell.
- E. Tamper Switch: Switch designed for installation on indicator valves with cased aluminum housing with red finish. Notifier, Simplex, Potter, Grinnell.
- F. Fire Department Connections: Elkhart, Craker Standard, Potter Roemer.
 - 1. Type: Free standing type with ductile iron pedestal chrome plated finish.
 - 2. Outlets: Two way with thread size to suit fire department hardware; threaded dust cap and chain of matching material and finish.
 - 3. Drain: 3/4 inch automatic drip, outside.
 - 4. Label: "Sprinkler – Fire Department Connection".

PART 3 EXECUTION

3.1 INSTALLATION

- A. Install in accordance with referenced NFPA design and installation standard and these specifications.
- B. Sprinklers shall be in line with and centered between down lights unless shown otherwise.
- C. Install equipment in accordance with manufacturer's instructions.
- D. Each floor of multi story buildings shall be zoned.
- E. All dry system piping shall be galvanized down stream of dry valve.
- F. Install buried shut-off valves in valve box. Provide post indicator.
- G. Provide approved double detector check assembly at sprinkler system water source connection.
- H. Locate fire department connection within forty (40'-0") feet of nearest fire hydrant and with sufficient clearance from walls, obstructions, or adjacent siamese connectors to allow full swing of fire department wrench handle.
- I. Locate outside alarm gang on building wall at piping entrance to building.
- J. Place pipe runs to minimize obstruction to other work.
- K. Place piping in concealed spaces above finished ceilings.
- L. Center sprinklers in two directions in ceiling tile and provide piping offsets as required.
- M. Apply masking tape or paper cover to ensure concealed sprinklers, cover plates, and sprinkler escutcheons do not receive field point finish. Remove after painting. Replace painted sprinklers.
- N. Where sprinklers are required under rectangular duct, the centerline of the sprinkler shall be minimum 6" under duct
- O. Install air compressor on vibration isolators.
- P. Flush entire piping system of foreign matter.
- Q. Hydrostatically test entire system.
- R. Require test be witnessed by Fire Marshal.
- S. All drain piping shall discharge to the outside 6" maximum above grade unless noted otherwise.
- T. Where sprinklers are required under oval or round duct, the centerline of the sprinkler shall be under the centerline of the duct.

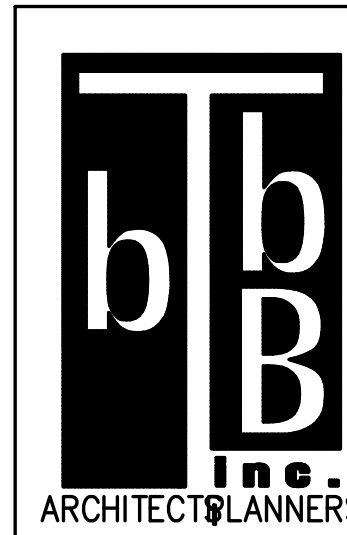
3.2 INTERFACE WITH OTHER PRODUCTS

- A. Ensure required tamper and flow devices are installed and connected as required to fire alarm system including but not limited to Floor control valves, alarm check valve, elevator shaft isolation valve, Post Indicator Valve (PIV) and backflow device valves.

3.3 SCHEDULES

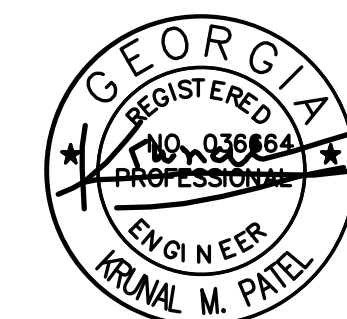
- A. System Hazard Areas:
 - 1. Office & Public Areas, nd similar occupancies – Light Hazard Design; 0.10 GPM/sq. ft. over the most remote 1500 square foot.
 - 2. Building Service Areas, Electrical Equipment Rooms, General Storage Areas, Mechanical Equipment Rooms, Restaurant Service Areas, and similar occupancies – Ordinary Hazard Group 1 Design; 0.15 GPM/sq.ft. over the most remote 1500 square foot.

END OF SECTION



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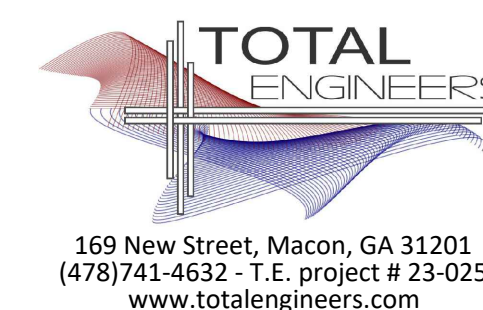
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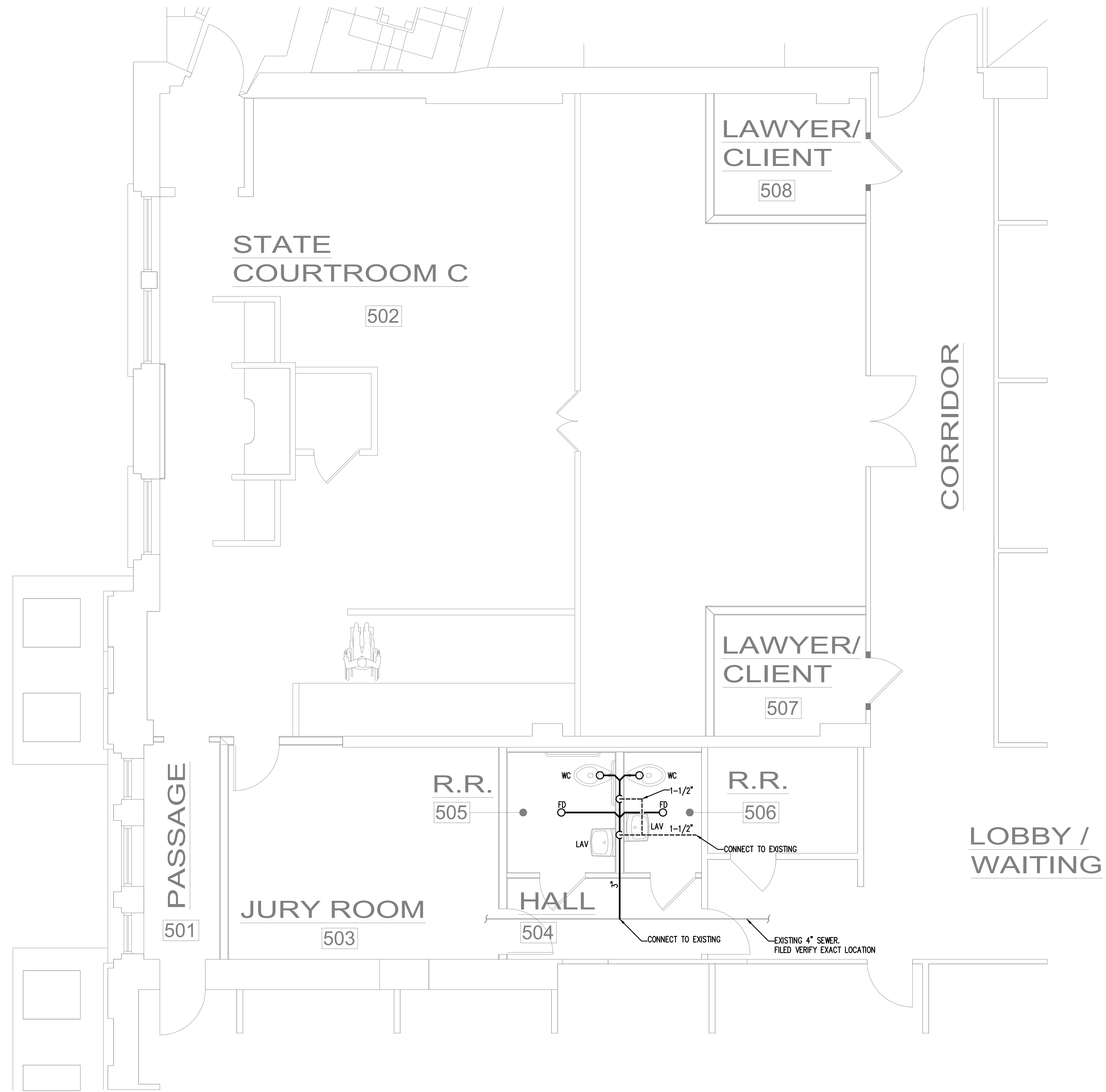
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FIRE SPRINKLER SPECIFICATIONS

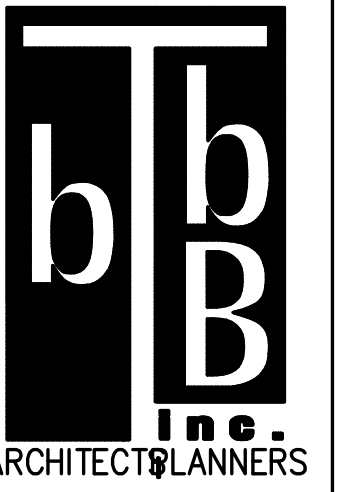
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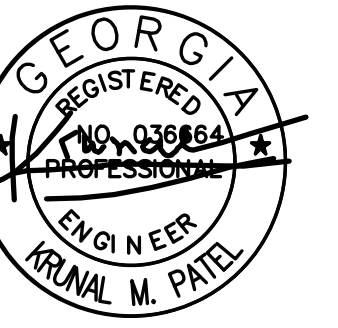
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1 STATE COURTROOM C NEW WORK PLUMBING PLAN - SEWER
SCALE: 1/4"=1'-0"



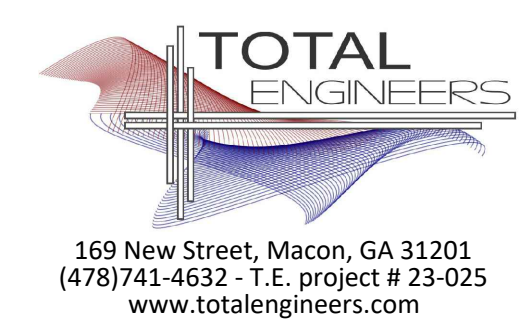
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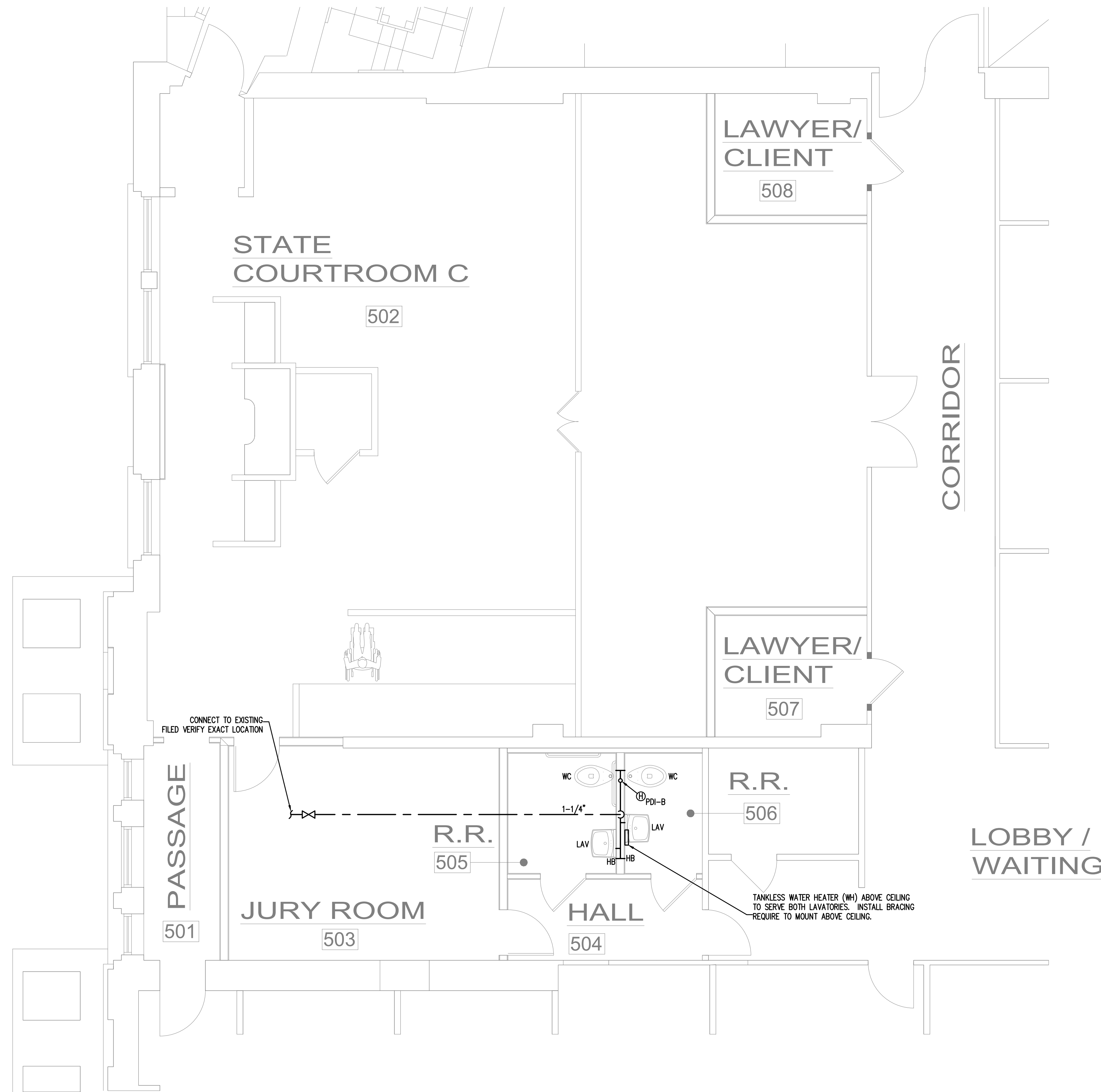
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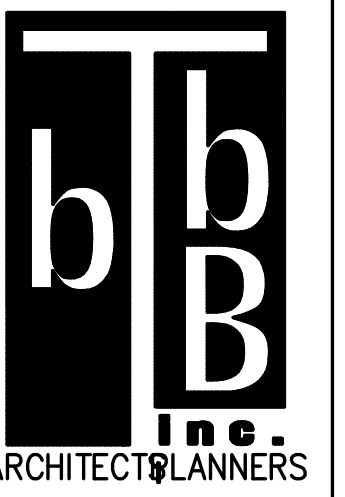
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PLUMBING PLAN
- SEWER
P2.1



MODIFY EXISTING FIRE SPRINKLER SYSTEM TO CONFORM TO NEW BUILDING LAYOUT.

1 STATE COURTROOM C NEW WORK PLUMBING PLAN - SEWER
SCALE: 1/4"=1'-0"



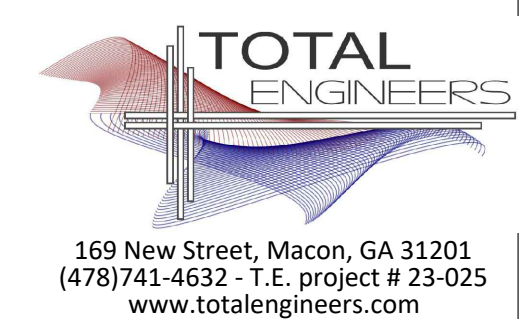
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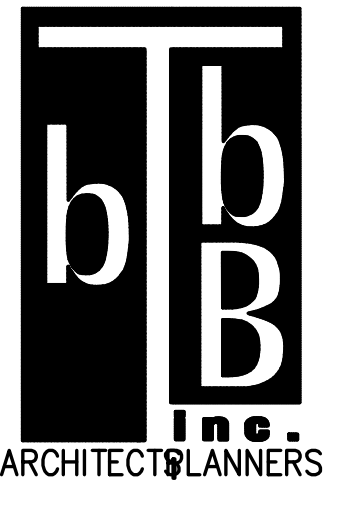
STATE COURTROOM C
PLUMBING PLAN - WATER
P2.2

MECHANICAL SPECIFICATIONS

- 1) Provide all heating, ventilation and air conditioning items indicated on the drawings, described in this specification or required for a complete and proper installation.
- 2) Comply with all pertinent codes, ordinances and regulations. Refer to website for Dept. of Community Affairs for current Codes Editions.
- 3) The contractor shall not attempt to precisely scale dimensions from these drawings to obtain construction dimensions and clearances. The contractor shall verify all actual dimensions and clearances. Although these plans are diagrammatic in nature, they shall be followed as closely as site conditions, new construction, and work by other trades shall permit. Deviations from these drawings, which are required to conform to the available space or the actual building construction, shall be made at no additional cost to the owner.
- 4) Furnish without extra charge, any additional material and labor required to comply with the above codes and standards, even though the work may not be described in the contract documents. Where the requirements of the contract documents exceed the requirements of the above codes and standards, the contract documents shall take precedence.
- 5) All equipment and material shall be new and of first quality. Equipment and material shall be the same or equal to the basis of design listed on these drawings and shall be UL listed.
- 6) Cooperate and coordinate with other trades in order that all systems in the work may be installed in the best arrangement.
- 7) Examine the areas and conditions under which work of this section will be installed. Correct conditions detrimental to the proper and timely completion of the work. Notify Architect of any discrepancies. Do not proceed until unsatisfactory conditions have been corrected.
- 8) Avoid interference with structure, and with work of other trades. Install all equipment per manufacturer's instructions. Install accessible parts, including equipment, coils, valves, dampers, controls, and filters with adequate clearance for inspection, adjustments, repair and replacement.
- 9) All other materials not specifically described but required for a complete and proper installation shall be as selected by the contractor subject to acceptance by the Engineer.
- 10) All ductwork shall be fabricated from galvanized sheet metal duct and conform to SMACNA "HVAC Duct Construction Standards--Metal and Flexible". Seal all joints in ductwork with mastic sealant.
- 11) Flexible duct: Flexmaster; Atco UPC#36(R-6.0); Atco UPC#31 (R-8) or ThermoFlex, Type 3, insulated. 5'-0" Maximum length unless noted otherwise. Class 1 rating with R-value of 6.0 when located inside building insulation envelope and R-8 when located outside building insulation envelope. Install with no more than 135 degrees maximum of total bends per run. Maximum individual bend shall not exceed 45 degrees each. Support at five feet on centers with hangers having at least 2-inches of width at duct contact points. Flexible connectors shall not pass through any wall floor or ceiling weather rated or not. Provide 36-inches of metal duct at penetration of draft stops, fire walls and smoke walls
- 12) Duct Liner: Owens Corning Aeroflex Plus, or equivalent. Incombustible glass fiber complying with ASTM C 1071; flexible blanket; impregnated surface and edges coated with acrylic polymer shown to be fungus and bacteria resistant by testing to ASTM G 21. Apparent Thermal Conductivity: Maximum of 0.31 at 75 degrees F. Service Temperature: 250 degrees F. Density: 1.5 pounds/cubic foot. Install using adhesive (50% coverage) and galvanized steel fasteners with welded press-on head Thickness: 1-inch.
- 13) Provide fire and smoke rated flexible connections between fans and ducts. Material shall comply with NFPA 90A requirements for material in supply air stream.
- 14) Install all equipment in accordance with manufacturer's instructions and recommendations including clearances recommended for proper operation or service. All filters and serviceable parts shall be readily accessible.
- 15) Indoor duct insulation: Foil-faced fiberglass, Owens Corning type 75 or equal, 2.2" thick(R-6), unless the insulated duct is outside building insulation envelope (attic, crawlspace or unconditioned space) in which case the duct insulation thickness shall be 3" thick(R-8). Duct shall have a flame spread rating of not more than 25 and smoke developed rating of not more than 50. Glass-Fiber Insulation: All service duct wrap with foil scrim and having backing and a k-value of 0.30 at 75° F mean temperature and an average maximum density of 0.75 lb/cu. ft.
- 16) All supply, return and outside air ducts shall be insulated. Insulate the concealed tops of all ceiling mounted supply air diffusers with foil-faced fiberglass, 1.5#/cubic foot density, 2" thick. Seal edges to ceiling grid with foil faced tape to provide vapor tight seal.
- 17) All low pressure duct branches shall contain manual balancing dampers. Manual balancing dampers shall also be installed in the continuation of the main, if the main duct is smaller or the same size as the branch duct, or if the continuation of the main serves only one device.
- 18) Make all duct elbows right angle type with single -thickness turning vanes or construct with centerline radius 1-1/2 times the duct width.
- 19) Duct sizes shown on plans are clear, interior dimensions. Duct sizes shown shall be enlarge to allow for liner at locations of interior liner.
- 20) Do not cut into or reduce the size of any structural member without the permission of the Architect.
- 21) Provide weather-proof flashing at all duct and pipe penetrations through the building walls and roof. As a minimum, flashings shall be designed and installed in accordance with SMACNA standards. Flashings shall be guaranteed weatherproof.
- 22) Support all HVAC units, ductwork, piping and other appurtenances from structure, provide vibration isolation at all fans which are not internally isolated. Provide hanger rod with built in rubber-in-shear isolator. Between drain pan and unit provide 4 each rubber-in-shear isolator. Do not attach vibration isolator to drain pan. Do not screw or drive fasteners into non-structural components such as roof decks or non-load bearing walls.
- 23) Thoroughly clean all components and remove all dirt, scale, oil, and other foreign substances. Provide clean air filters for all equipment.
- 24) Perform all tests necessary to demonstrate the integrity of the complete installation to the approval of the Engineer and all other authorities having jurisdiction. Make all adjustments necessary and balance the completed system in accordance with the data shown. Balance the systems in accordance with NEBB or AABC standards. Acceptable tolerances shall be minus ten percent to plus five percent of all measurements. Balancing shall be done by an independent licensed (by NEBB or AABC) TAB contractor. Make the following tests and submit reports to the Architect:
 - a) Airflow rate at each supply and exhaust outlet or inlet.
 - b) Total airflow rate and total static pressure for each supply and exhaust fan. Test exhaust fans with room doors closed.
 - c) Motor speed, for multiple speed fans (e.g. high, medium, low).
 - d) For direct drive fans, provide speed settings and actual rpm, including ECM motor driven fans
 - e) Provide fan and motor rpm for belt driven fans. Provide sheave sizes.
 - f) Motor current (and compare with nameplate data) at all motors.
 - g) Manufacturer, model and serial number for each piece of HVAC equipment scheduled on drawings.
 - h) Calibrate thermostats to be within one degree of actual temperature at thermostat.
 - i) Verify that all HVAC devices operate as scheduled or indicated (i.e. ON-OFF, 2-stage, variable output (SCR heaters), etc.
- 25) The entire system shall be warranted for a period of one (1) year beginning with Owner's acceptance of the work. Compressors shall include a minimum of five (5) year parts only warranty from the manufacturer. All labor and materials necessary to repair or replace the system or portions thereof, during that time shall be warranted for a period of one (1) year from the repair or replacement.
- 26) SUBMITTALS AND SUBMITTAL PROCEDURES:
 - a. Contractor shall review the submittal data and check for the purpose of compliance with safety requirements, verification of dimensions, contract documents and methods and means prior to submitting to design professional. Contractor shall indicate approval by indicating such on the submittal.
 - b. Transmit each submittal electronically in PDF format.
 - c. Sequentially number submittal files and transmittal form. Revise submittals with original number and a sequential alphabetic suffix. File names shall describe item included in file.
 - d. Identify Project, the Contractor, Subcontractor or supplier; pertinent drawing and detail number, and specification section number, as appropriate on each copy. Each file shall include an index of items included in file.
 - e. Apply the Contractor's stamp, signed or initialed certifying that review, approval, verification of Products required, field dimensions, adjacent construction Work, and coordination of information is in accordance with the requirements of the Work and Contract Documents.
 - f. Submittal data for all items in project shall be submitted at one time. Submittal shall be divided into groups with file sizes not exceeding 6 MB. If there is unavailable data such as control submittal, etc., these may be submitted later if not doing so would delay project progress. Data shall include capacities, complete installation instructions, dimensional data and electrical data, BHP, motor HP, operating weights and load distribution at mounting points.
 - g. Deliver submittals electronically to the Design Professional.
 - h. Schedule submittals to expedite the Project, and coordinate submission of related items.
 - i. For each submittal for review, allow 15 days excluding delivery time to and from the Contractor.
 - j. Identify variations from Contract Documents and Product or system limitations that may be detrimental to successful performance of the completed Work.
 - k. Provide space for the Contractor and the Architect/ review stamps.
 - l. When revised for resubmission, identify all changes made since previous submission.
 - m. Distribute copies of reviewed submittals as appropriate. Instruct parties to promptly report any inability to comply with requirements.
 - n. Submittals not requested will not be recognized or processed.
 - o. Provide files containing only related items (such as piping, equipment, air distribution, etc.)
- 27) Instruct Owner's representative in the operation of the systems, using the operation and maintenance manual as a teaching aid.
- 28) Provide an operation and maintenance manual. As a minimum, the manual shall contain:
 - a. A complete list of all equipment and appurtenances with equipment designations (per Drawings), manufacturers, and catalog numbers.
 - b. Copies of manufacturers' brochures and instructions for operation and maintenance of all mechanical equipment, including replacement parts lists.
 - c. Typed system operation and maintenance instructions, including inspection, lubrication, and service instructions and schedules.
 - d. List of names, addresses and phone numbers of distributors of all equipment and appurtenances.
 - e. Manufacturers' warranties.

- 30) Basic motor requirements: basic requirements apply to mechanical equipment motors, unless otherwise indicated. Motors 1/2 hp and larger: Polyphase, unless otherwise scheduled. Motors smaller than 1/2 hp: single phase. Frequency rating: 60 Hz. Service factor: according to NEMA MG 1, general-purpose continuous duty, design type "B." Enclosure: open drip-proof, unless otherwise indicated. Efficiency: motors shall have a higher efficiency rating than industry standard average motor as delineated in IEEE Standard 112, test method 13. Thermal protection: where indicated or required, internal protection automatically opens power supply circuit to motor when winding temperature exceeds a safe value calibrated to temperature rating of motor insulation. Thermal protection device automatically resets when motor temperature returns to normal range, unless otherwise indicated.
- 31) Hangers and supports: Building attachments: concrete inserts or structural-steel fasteners appropriate for building materials, and beam clamps. Hanger materials: galvanized, sheet steel or round, threaded steel rod. Hangers installed in corrosive atmospheres: electrogalvanized, all-thread rod or galvanized rods with threads painted after installation. Straps and rod sizes: comply with SMACNA's "HVAC Duct Construction Standards--Metal and Flexible" for sheet steel width and thickness and for steel rod diameters. Duct attachments: sheet metal screws, blind rivets, or self-tapping metal screws; compatible with duct materials. Trapeze and riser supports galvanized steel shapes and plates: steel shapes complying with ASTM A 36/A 36M.
- 32) Sealant materials: joint and seam sealants, general: the term "sealant" is not limited to materials of adhesive or mastic nature but includes tapes and combinations of open-weave fabric strips and mastics. Joint and seam tape: 2 inches wide; glass-fiber fabric reinforced. Joint and seam sealant: one-part, nonsolvent-release-curing, polymerized butyl sealant, formulated with a minimum of 75 percent solids. Flanged joint mastics: one-part, acid-curing, silicone, elastomeric joint sealants, complying with ASTM C 920, type S, grade NS, class 25, use 0.
- 33) All HVAC equipment such as AH, CU, EF, AC, HP, and RTU shall have visible nameplates with their associated marks on them.
- 34) Ceiling Ventilator shall have corrosion resistant galvanized steel housing with four-point mounting capability. It shall be ducted to a cap on wall or roof using round ductwork. Blower assembly shall be removable, have a centrifugal-type blower wheel and a permanently lubricated motor designed for continuous operation. Non-metallic damper/duct connector shall be included. Air delivery shall be no less than scheduled and sound level no greater than scheduled. All air and sound ratings shall be certified by HVI. Ceiling ventilator shall be Energy Star® qualified and have an energy efficient permanent split capacitor motor.
- 35) Acceptable Manufacturers are:

Grilles, Registers & Diffusers:	Titus, Nailor, Price, Tuttle & Bailey, Kruger, Metal Aire(Color selection submitted to Architect)
Fans:	Twin-City, Cook, Greenheck, PennBarry, Acme, American CoolAir, Captive Air, Solar & Palau
Louvers/Dampers/Fire Dampers:	United Enertech, Greenheck, Ruskin, Arrow United, Lloyd Industries, Air Balance (Color selection submitted to Architect)



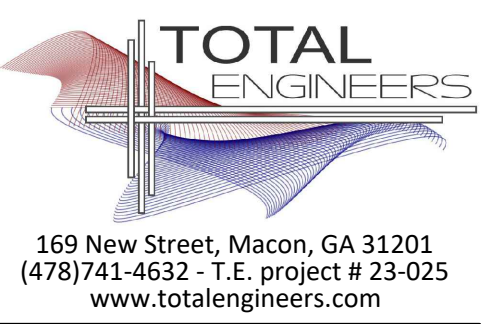
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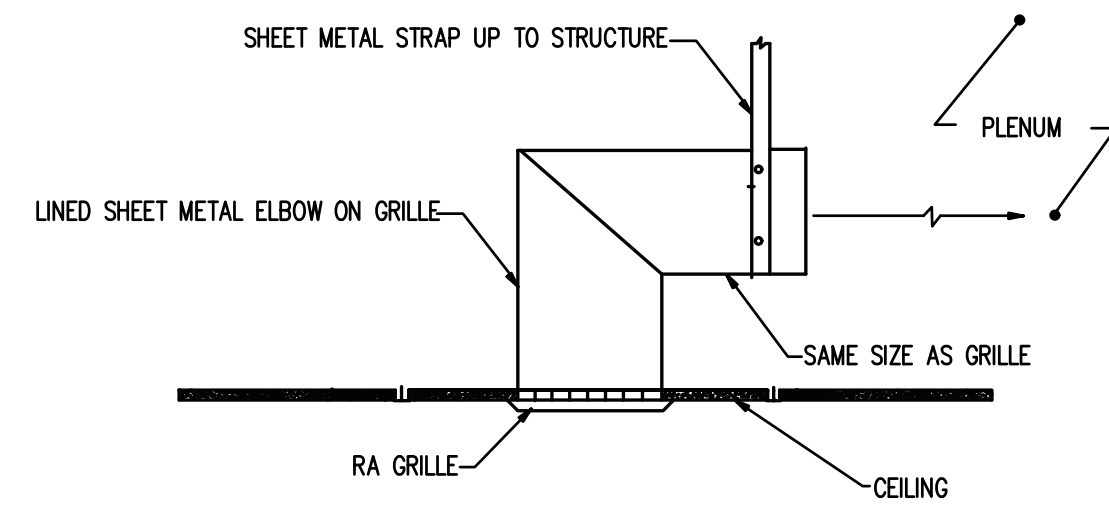
RENOVATIONS OF
MACON-BIBB COUNTY COURTHOUSE
CORNER MULBERRY & SECOND STREET, MACON, GEORGIA

Drawing Issue Schedule	
4-7-2023	Permit Set
Project No:	2022-44

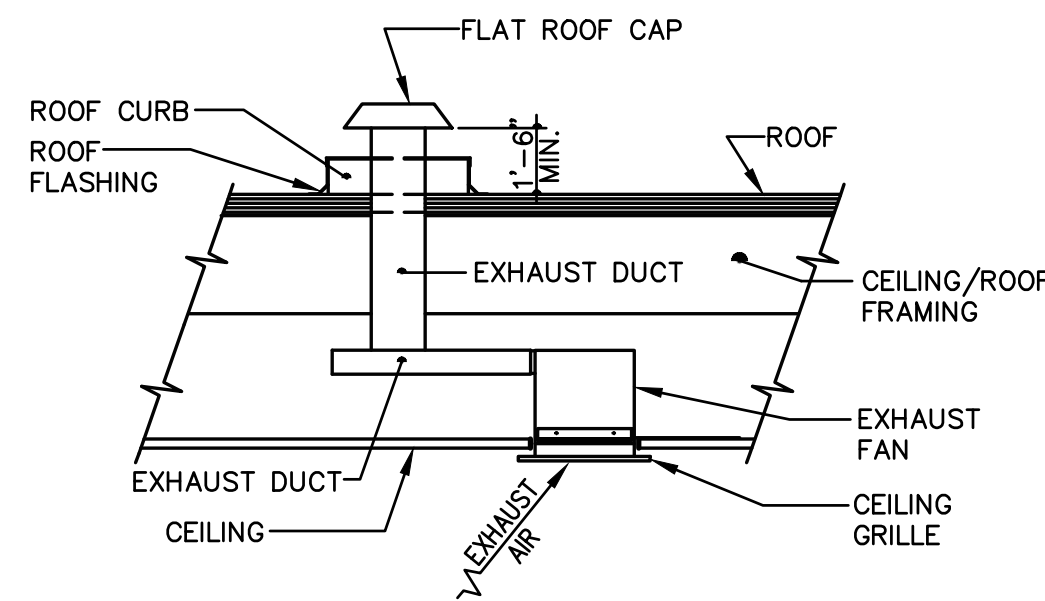


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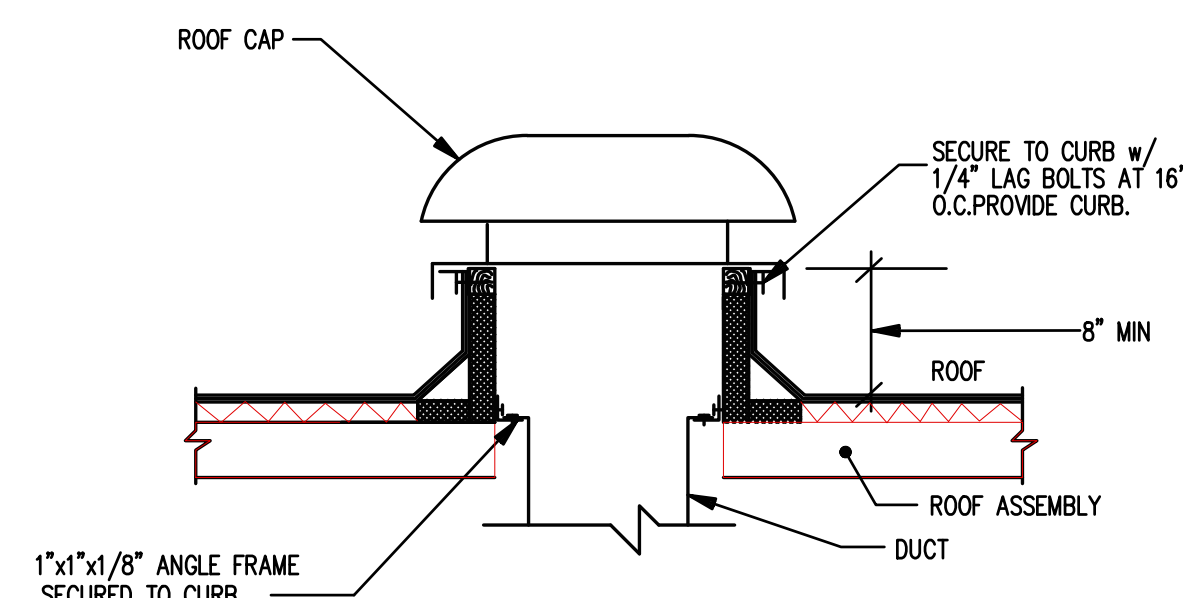
MECHANICAL SPECIFICATIONS
M0.1



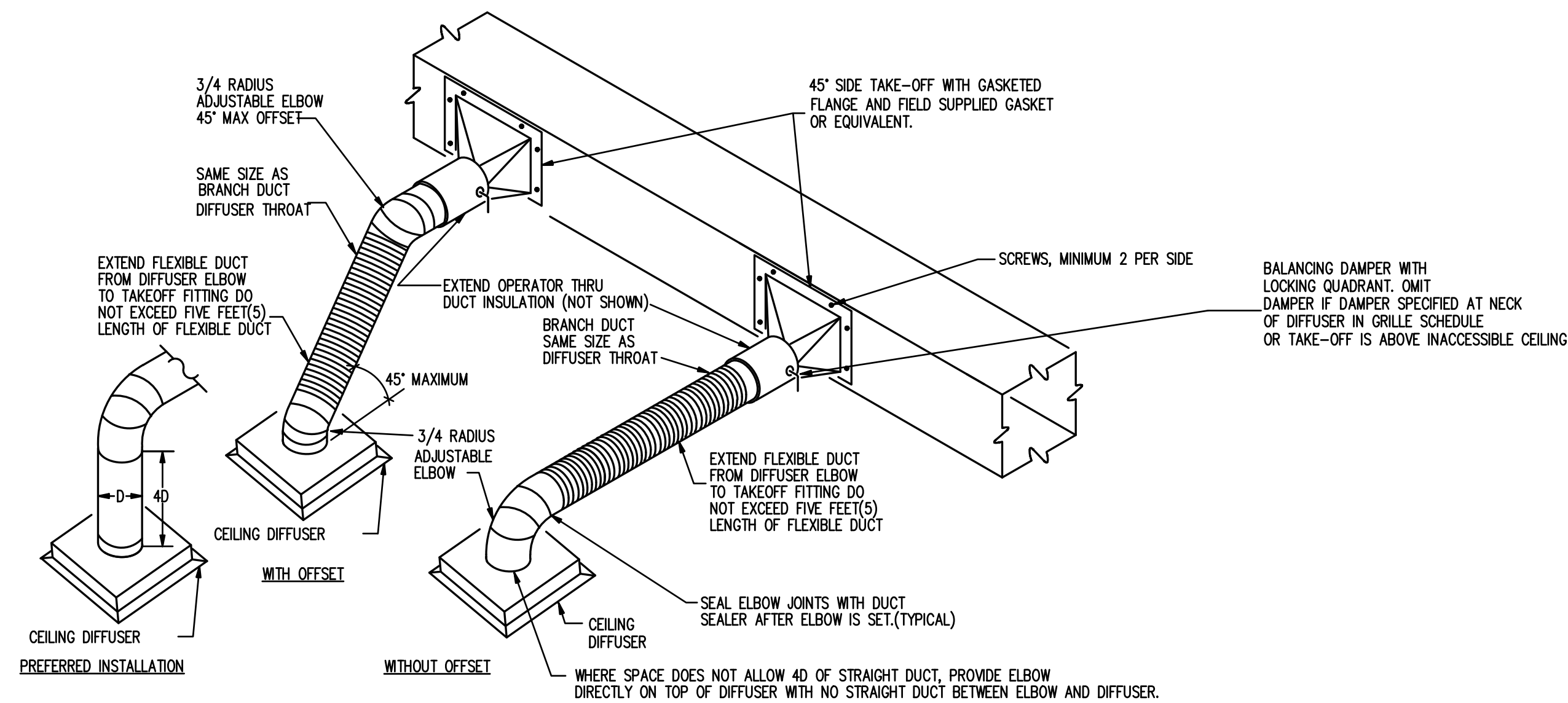
1 RETURN AIR GRILLE DETAIL
SCALE: N.T.S.



2 CEILING EXHAUST FAN DETAIL
SCALE: N.T.S.



3 ROOF CAP DETAIL
SCALE: N.T.S.



4 DIFFUSER RUN OUT DETAIL
SCALE: N.T.S.

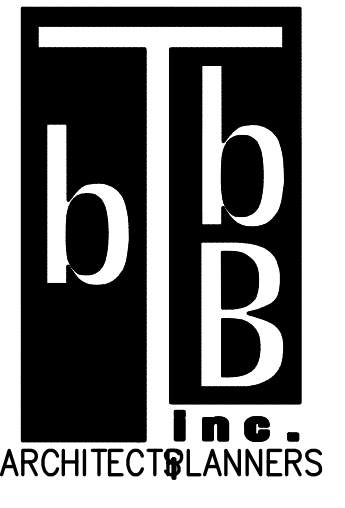
MECHANICAL SYMBOLS & ABBREVIATIONS LEGEND	
	NEW PIPE, DUCTWORK OR EQUIPMENT
	DUCT SIZE: FIRST DIMENSION IS SIDE DRAWN
	FLEXIBLE ROUND DUCTWORK
	FIRE DAMPER, SMOKE DAMPER, SMOKE DETECTOR
	CEILING SUPPLY DIFFUSER
	CEILING RETURN OR EXHAUST AIR
	S.A. DUCT OUT OF TU BOX WITH DUCT LINER FOR THE FIRST FIVE FEET OF DUCT OUT OF TU BOX
	SIDEWALL REGISTER OR GRILLE
	CHANGE IN PIPE OR DUCT SIZE OR SHAPE
	REFRIGERANT PIPING
	CONDENSATE OR OTHER DRAIN PIPING
	ELBOW TURNED DOWN OR TURNED UP IN PIPING
	THERMOSTAT, ARROW SHOWS CONTROL WIRING PATH
	TIME CLOCK
	DIAMETER
	U.C. UNDER-CUT DOOR 3/4", UNLESS OTHER SIZE NOTED
	INDICATES EQUIPMENT ON PLANS; TOP ITEM SHOWS TYPE OF EQUIPMENT AND BOTTOM ITEM SHOWS SPECIFIC MARK NUMBER
	ITEM IN HEXAGON SHOWS AIR DEVICE MARK NUMBER, ITEM ABOVE LINE SHOWS NECK SIZE, ITEM BELOW LINE SHOWS AIR FLOW THROUGH DEVICE, AND NUMBER IN FRONT SHOWS QUANTITY IF MORE THAN ONE
	ABOVE FINISHED FLOOR
	AIR HANDLING UNIT
	BYPASS DAMPER
	BTUH, MBH BRITISH THERMAL UNITS, THOUSAND BRITISH THERMAL UNITS
	CAPACITY
	CFM CUBIC FEET PER MINUTE
	CEILING
	CONDENSING UNIT
	DB, WB DRY BULB TEMPERATURE, WET BULB TEMPERATURE
	EA, EG EXHAUST AIR, EXHAUST GRILLE
	EF EXHAUST FAN
	EXT SP EXTERNAL STATIC PRESSURE (USUALLY EXPRESSED IN INCHES OF WATER IN GAGE)
	HP HEAT PUMP UNIT
	MVD, VD MANUAL VOLUME DAMPER
	OA OUTSIDE AIR
	RA, RG RETURN AIR, RETURN GRILLE
	RTU PACKAGED ROOFTOP UNIT
	SA SUPPLY AIR
	SF SUPPLY FAN FOR SHOP VENTILATION
	VAC, PH VOLTS ALTERNATING CURRENT, NUMBER OF PHASES
	W, KW WATTS, KILOWATTS
	UH UNIT HEATER
	AUDIBLE/VISUAL ALARM DEVICE CONNECTED TO DUCT SMOKE DETECTOR
	AD ACCESS DOOR
	CD CONTROL DAMPER-OPPOSED BLADE
	CD CONTROL DAMPER-PARALLEL BLADE
	BD BACKDRAFT DAMPER
	RE RADIUS ELBOW (R=1.5)
	VE VANE ELBOW
	MVD, MOD MANUAL VOLUME DAMPER (MVD), MOTOR OPERATED DAMPER (MOD)
	X INDICATES SECTION NUMBER/XX INDICATES ON WHICH DRAWING SECTION APPEARS

FAN SCHEDULE										
MARK	CFM	EXT. SP IN W.G.	DRIVE TYPE	MOTOR (HP/W)	MAX FAN (RPM)	MAX SONES	POWER/PHASE	BASIS OF DESIGN	SERVES	NOTES
EF-1	70	0.25	DIRECT	20.0 W	690	1.3	115/1	GREENHECK SP-B90	R.R.	1:2:3:4:5
EF-2	70	0.25	DIRECT	20.0 W	690	1.3	115/1	GREENHECK SP-B90	R.R.	1:2:3:4:5

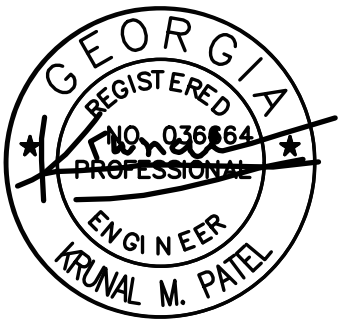
1. VERIFY ELECTRIC POWER REQUIREMENTS WITH ELECTRICAL PLANS, WHICH TAKE PRECEDENCE OVER THIS INFORMATION.
2. INTERLOCK FAN WITH LIGHTS SUCH THAT FAN COMES ON WHEN LIGHTS ARE ON. ELECTRICAL TO PROVIDE 15 MINUTE TIME DELAY.
3. PROVIDE FACTORY SOLID STATE FAN SPEED CONTROLLER.
4. DIRECT DRIVE CENTRIFUGAL CEILING FAN. PROVIDE FACTORY SUPPLIED DISCONNECT, BACK DRAFT DAMPER AND MOTOR WITH THERMAL OVERLOAD.
5. PROVIDE MANUFACTURER'S DESIGNER GRILLE.

AIR DEVICE SCHEDULE									
MARK	SERVICE	NECK SIZE	FACE SIZE	MATERIAL	TYPE	PATTERN	MOUNTING TYPE	LAYOUT BASIS	NOTES
S1	SUPPLY	SEE PLANS	24"x24"	STEEL	SQUARE CONC.	4-WAY	LAY-IN	TITUS TMS	1:2:3
S2	SUPPLY	SEE PLANS	12"x12"	STEEL	SQUARE CONC.	4-WAY	LAY-IN	TITUS TMS	1:2:3
R1	RETURN	SEE PLANS	24"x12"	ALUMINUM	EGGGRATE	---	LAY-IN	TITUS SOF	1:4
R2	RETURN	SEE PLANS	24"x24"	ALUMINUM	EGGGRATE	---	LAY-IN	TITUS SOF	1:4

1. PROVIDE WHITE ENAMEL FINISH.
2. INSULATE BACK OF DEVICE.
3. BALANCE AIRFLOW TO QUANTITY SHOWN.
4. PROVIDE FULL SIZE SHEET METAL PLENUM FOR DUCT CONNECTION.



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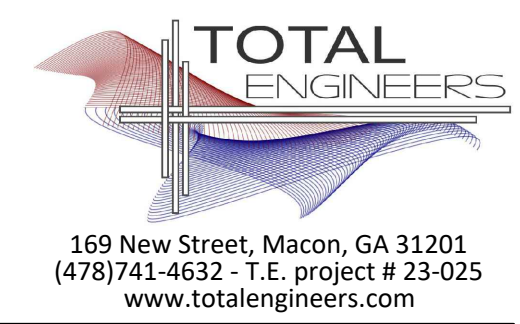


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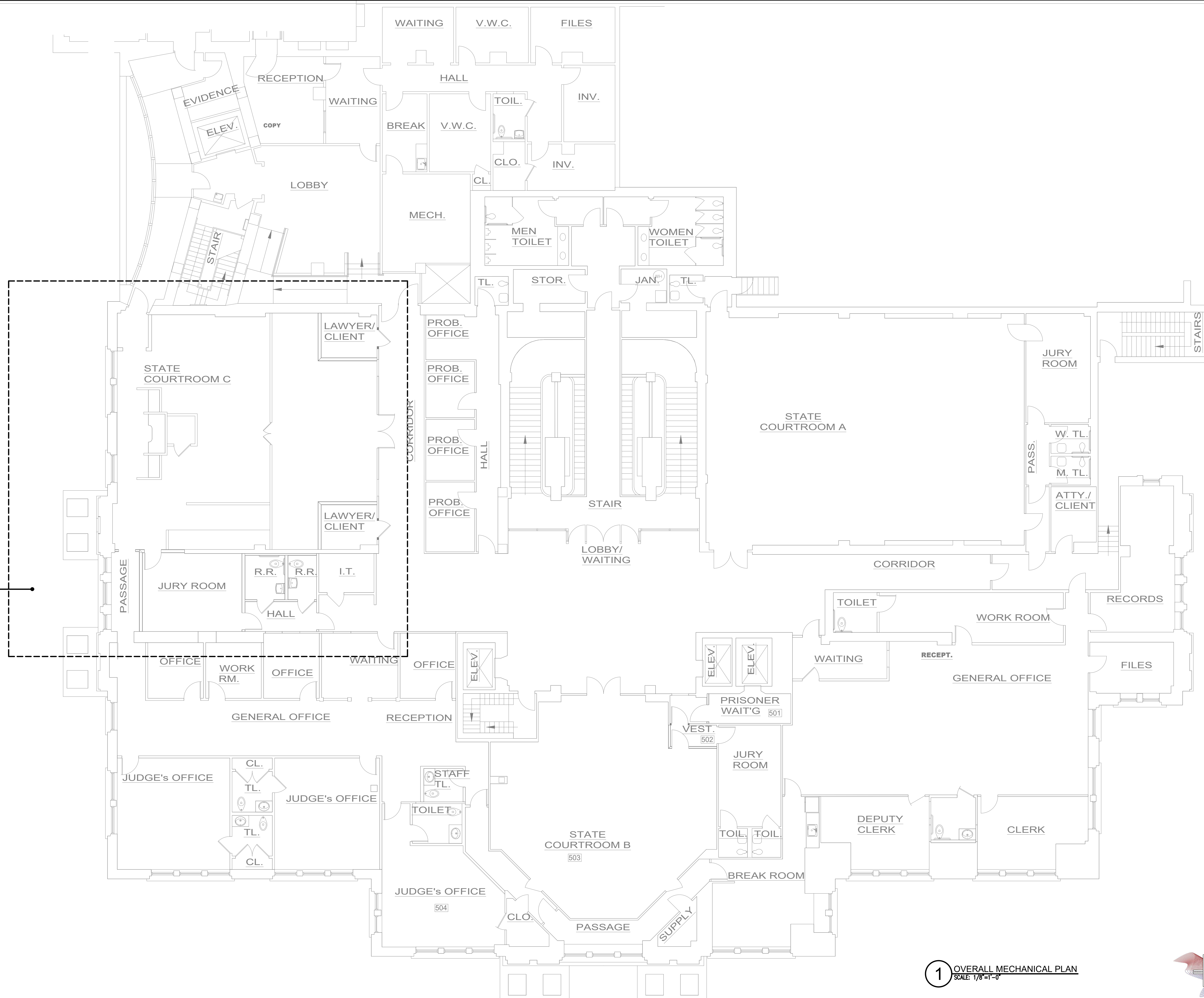
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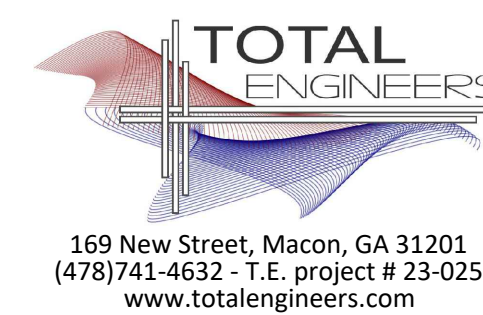
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MECHANICAL SCHEDULES & DETAILS
M0.2



1
M1.2


1 OVERALL MECHANICAL PLAN
SCALE: 1/8"=1'-0"



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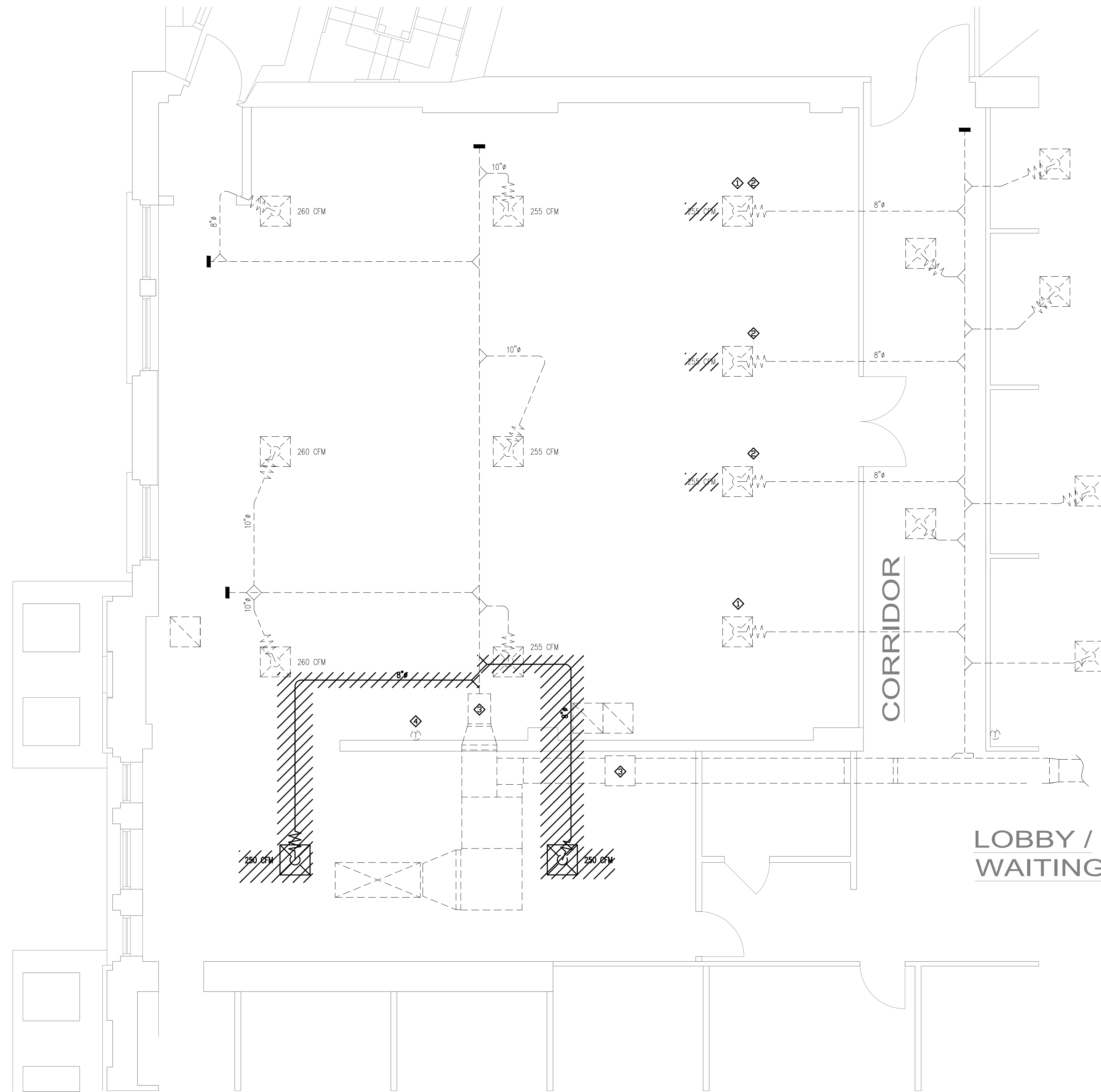


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OVERALL MECHANICAL PLAN
M1.0



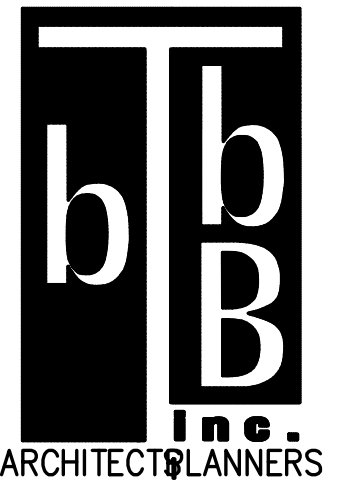
LINE LEGEND	
	DEMOLITION
	EXISTING TO REMAIN
	CONNECT TO EXISTING

GENERAL DEMOLITION NOTES

- A) DRAWINGS ARE DIAGRAMMATIC AND SHOW THE GENERAL PROXIMITY OF EQUIPMENT, PIPES, DUCTWORK ETC., ARE NOT TO BE SCALED. ALL DIMENSIONS SHALL BE VERIFIED BY THE CONTRACTOR AT BUILDING SITE.
- B) THE DEMOLITION PLANS HAVE BEEN PREPARED TO ASSIST THE CONTRACTOR IN DETERMINING THE SCOPE OF DEMOLITION WORK AND SHOULD NOT BE CONSTRUED TO BE ALL OF DEMOLITION REQUIRED. THE CONTRACTOR SHALL VISIT JOB SITE (AFTER CAREFULLY REVIEWING THE CONTRACT DOCUMENTS) AND DETERMINE EXACT AREAS AND QUANTITIES OF EXISTING MATERIALS TO BE REMOVED TO ACCOMPLISH NEW CONSTRUCTION.
- C) WHERE THE DOCUMENTS INDICATE EQUIPMENT TO BE REMOVED OR DEMOLISHED. CONTRACTOR SHALL REMOVE ALL ASSOCIATED MATERIALS INCLUDING SUPPORT, HANGERS, AND ASSOCIATED ACCESSORIES.
- D) CONTRACTOR SHALL DISPOSE OF ANY MATERIAL TO BE DISCARDED IN ACCORDANCE WITH ALL LAWS AND REGULATIONS.
- E) IF CONTRACTOR'S OBSERVATIONS REVEAL THE PRESENCE OF ASBESTOS IN HVAC DUCTWORK, EQUIPMENT, AND INSULATION WHICH MUST BE DISTURBED DURING THE COURSE OF THIS WORK, CONTRACTOR MUST FOLLOW ALL LAWS AND REGULATIONS APPLICABLE TO REMOVAL OF ASBESTOS MATERIAL TO REMOVE IT.

KEY DEMOLITION NOTES (THIS SHEET ONLY):

- ◊ RELOCATE EXISTING GRILLE/DIFFUSER TO A LOCATION AS SHOWN ON THE NEW WORK PLAN. PROVIDE ADDITIONAL DUCTWORK AS NECESSARY TO RELOCATE GRILLE/DIFFUSER.
- ◊ REBALANCE DIFFUSER AS NOTED ON THE NEW WORK PLAN.
- ◊ EXISTING VAV BOX. VAV BOX SHALL REMAIN AS IS WITH ALL ITS CONTROLS AND ACCESSORIES.
- ◊ RELOCATE EXISTING THERMOSTAT TO A LOCATION AS SHOWN ON THE NEW WORK PLAN. PROVIDE ADDITIONAL CONTROL WIRING AS NECESSARY TO RELOCATE THERMOSTAT. COORDINATE EXACT LOCATION WITH OWNER.



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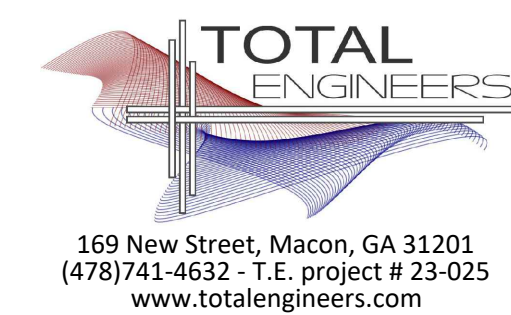
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**RENOVATIONS OF
MACON-BIBB COUNTY COURTHOUSE**
CORNER MULBERRY & SECOND STREET, MACON, GEORGIA

Drawing Issue Schedule	
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1 STATE COURTROOM C MECHANICAL DEMOLITION PLAN
SCALE: 1/4"=1'-0"



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**STATE
COURTROOM C
MECHANICAL
DEMOLITION PLAN**
M1.1

ELECTRICAL SPECIFICATIONS

DIVISION 26
ELECTRICAL

SECTION A: GENERAL ELECTRICAL REQUIREMENTS

1. THESE PLANS AND SPECIFICATIONS APPLY TO BIBB COUNTY GOVERNMENT BUILDING, COURTROOM RENOVATIONS, MACON GEORGIA. THE WORK DESCRIBED BY THESE PLANS AND SPECIFICATIONS APPLY TO THE INDICATED PROJECT AND MAY NOT BE MODIFIED OR REUSED WITHOUT WRITTEN APPROVAL OF THE ENGINEER.
2. ALL WORK SHALL BE PERFORMED BY LICENSED ELECTRICAL CONTRACTOR WITH MINIMUM OF TWO YEARS OF EXPERIENCE. LIST OF PREVIOUS JOBS AND REFERENCES SHALL BE MADE AVAILABLE UPON REQUEST. CONTRACTOR SHALL PROVIDE ADEQUATE INSURANCE FOR PERSONNEL AND SHALL REPAIR ANY DAMAGE OCCURRING AS THE RESULT OF THIS PROJECT SITE AND RELATED PROPERTY.
3. ALL WORK SHALL BE PERFORMED IN A PROFESSIONAL MANNER IN ACCORDANCE WITH THE 2020 NATIONAL ELECTRICAL CODE WITH 2021 GEORGIA STATE AMENDMENTS, LIFE SAFETY CODE NFPA 70E, ADA CODE, OR ACCESSIBILITY OF CONSTRUCTION OF GEORGIA ENERGY CODE AND ALL OTHER APPLICABLE CODES AND ORDINANCES.
4. ALL PERMITS AND FEES SHALL BE OBTAINED AND PAID FOR BY THE CONTRACTOR.
5. ALL EQUIPMENT, MATERIAL, AND DEVICES SHALL BE LISTED OR RECOGNIZED BY UNDERWRITER'S LABORATORY OR ELECTRICAL TESTING LABORATORY AND USED AND INSTALLED IN ACCORDANCE WITH ITS LISTING.
6. ALL WORK PERFORMED SHALL BE WARRANTED FOR A PERIOD OF ONE YEAR FROM THE THE FINAL COMPLETION DATE EXCEPT FOR FUSES AND LAMPS IN LIGHT FIXTURES. IN THE EVENT OF A PROBLEM, THE CONTRACTOR SHALL INVESTIGATE THE PROBLEM WITHIN 48 HOURS UNLESS A DIFFERENT TIME PERIOD IS AGREED TO. THE CONTRACTOR SHALL INVESTIGATE, REPAIR OR REPLACE ALL FAULTY EQUIPMENT WITHIN A REASONABLE TIME PERIOD WITHOUT CHARGE TO THE OWNER.
7. THE TERM "PROVIDE" SHALL BE UNDERSTOOD TO MEAN OBTAIN THE ITEM DESCRIBED, INSTALL ITEM IN ACCORDANCE WITH THESE PLANS, SPECIFICATIONS, AND MANUFACTURER'S RECOMMENDATIONS.

8. ALL PENETRATIONS MADE IN FIRE RATED BUILDING PORTIONS SHALL BE SEALED WITH A LISTED RESISTANT MATERIAL SUITABLE FOR THE APPLICATION.
9. ALL INSTALLATIONS OF ELECTRICAL EQUIPMENT AND MATERIALS SHALL BE COORDINATED WITH OTHER TRADES PRIOR TO INSTALLATION.
10. PLANS ARE DIAGRAMMATIC AND SHOW THE LOCATION OF THE EQUIPMENT, RACEWAY AND FIXTURES, AND ARE NOT TO BE SCALED. ALL DIMENSIONS SHALL BE VERIFIED AT THE BUILDING SITE.

11. CONTRACTOR SHALL VERIFY AND COORDINATE ALL EQUIPMENT AND DEVICE LOCATIONS WITH OWNER'S PROJECT MANAGER PRIOR TO INSTALLATION.
12. EQUIPMENT POWER SUPPLY AND WIRING REQUIREMENTS; THE CONTRACTOR SHALL SUBMIT FOR REVIEW A TABULATED SHEET OF EQUIPMENT POWER SUPPLY AND WIRING REQUIREMENTS FOR ALL MECHANICAL EQUIPMENT REQUIRING POWER AS SPECIFIED IN DIVISION 23. REQUIREMENTS SHALL BE IDENTIFIED BY HORSEPOWER OR KW, OPERATING AMPERAGE, REQUIRED VOLTAGE AND PHASE REQUIREMENTS, AND MANUFACTURER'S SUGGESTED OVERCURRENT CIRCUIT PROTECTION DEVICE SIZE AND MINIMUM CIRCUIT AMPACITY SIZE, WHERE THE ELECTRICAL REQUIREMENTS SUBMITTED FOR MECHANICAL EQUIPMENT DIFFERS FROM THE BRANCH CIRCUITRY SHOWN ON THE ELECTRICAL DRAWINGS (WHEN USING THE BASIS OF DESIGN UNIT LISTED IN THE MECHANICAL SCHEDULES/SPECIFICATIONS OR A SIMILAR UNIT OF THE SAME SIZE FROM LISTED ALTERNATE MANUFACTURERS). THE CONTRACTOR SHALL MAKE THE NECESSARY ADJUSTMENTS TO THE BRANCH CIRCUITRY PER THE CURRENT NEC AT NO ADDITIONAL COST TO THE OWNER. WHEN CHANGES ARE MADE TO POWER REQUIREMENTS FOR EQUIPMENT DUE TO OWNER ARCHITECT/ENGINEER APPROVED VALUE ENGINEERING CHANGES TO EQUIPMENT, THE COST MUST BE INCLUDED IN THE VALUE ENGINEERING OVERALL CHANGE ORDER COST. COSTS DUE TO ADJUSTMENTS IN BRANCH CIRCUITRY TO EQUIPMENT DUE TO VALUE ENGINEERING CHANGES WILL NOT BE ALLOWED AFTER THE OVERALL VALUE ENGINEERING CHANGE ORDER HAS BEEN APPROVED. IN ALL CASES, POWER WIRING REQUIREMENTS FOR MECHANICAL EQUIPMENT MUST BE PROVIDED TO THE ENGINEER BEFORE OR AT THE SAME TIME AS THE MECHANICAL DRAWINGS FOR THE ELECTRICAL DISTRIBUTION GEAR OR EQUIPMENT. IN NO CASE SHALL THE ELECTRICAL DISTRIBUTION GEAR OR EQUIPMENT BE ORDERED OR BRANCH CIRCUITRY ROUGHED IN PRIOR TO ENGINEER REVIEW AND COMMENT ON THIS DOCUMENT. ANY EQUIPMENT ORDERED OR BRANCH CIRCUITRY ROUGHED IN ON THE JOBSITE WITHOUT THIS REVIEW AND COMMENT WILL BE TOTALLY AT THE CONTRACTOR'S RISK.

SECTION B: BASIC MATERIALS

1. ALL CONDUCTORS USED FOR 600 VOLTS OR LESS SHALL BE HIGH GRADE COPPER CONDUCTORS WITH 75 DEGREE C, THHN OR THWN THERMOPLASTIC INSULATION. ALL CONDUCTORS SHALL BE MADE IN THE USA. ALL CONDUCTORS ROUTED IN UNDERGROUND CONDUIT SHALL BE RATED FOR WET LOCATIONS.
2. ALL INTERIOR 120/208 VOLT, 20 AMP POWER AND LIGHTING WIRING SHALL BE INSTALLED IN ELECTRICAL METALLIC TUBING OR "MC" CABLE (IF NOT EXPOSED) FOR ALL INTERIOR CIRCUITS UNLESS OTHERWISE NOTED. IF "MC" CABLE IS USED, HOMERUNS SHALL BE IN 3/4 IN. EMT. POWER CIRCUITS FOR HVAC EQUIPMENT SHALL BE IN ELECTRICAL METALIC CONDUIT. ALL CONDUIT SHALL BE SUPPORTED FROM BUILDING STRUCTURE. IT SHALL NOT BE SUPPORTED FROM DUCTWORK, PIPING, CEILING GRID OR CEILING GRID SUPPORTS, OR ANY OTHER NON-STRUCTURAL ITEM. CONDUIT SHALL BE SUPPORTED IN ACCORDANCE WITH THE NEC. CONDUIT IN EXPOSED STRUNG AREAS SHALL BE EMT. GALVANIZED RIGID STEEL CONDUIT SHALL BE USED IN AREAS WHERE IT WILL BE EXPOSED TO PHYSICAL DAMAGE.
3. CONDUIT UNDERGROUND SHALL BE SCHEDULE 40 PVC, IF MORE THAN ONE CONDUIT IS PROVIDED IN A SINGLE TRENCH, THE CONDUIT SHALL BE RACKED WITH SPACERS EVERY FOUR FEET TO MAINTAIN A MINIMUM SPACING BETWEEN CONDUIT OF TWO INCHES. BACKFILL USED FOR UNDERGROUND INSTALLATIONS SHALL BE FREE OF FOREIGN MATTER, WHERE EXPOSED TO WEATHER, CONDUIT SHALL BE GALVANIZED RIGID STEEL OR INTERMEDIATE METALLIC CONDUIT. THE CONDUIT SHALL BE TERMINATED WITH LISTED FITTINGS AND ALL CONDUIT ENDS SHALL BE REAMED AND SMOOTH. ALL CONDUIT ENDS IN BOXES SHALL BE PROVIDED WITH INSULATED BUSHINGS.
4. A #12 INSULATED COPPER GROUND CONDUCTOR SHALL BE INCLUDED IN ALL BRANCH CIRCUITS RATED 20 AMPERES, ALL OTHER CIRCUITS AND FEEDERS WILL BE PROVIDED WITH AN INSULATED COPPER CONDUCTOR SIZED AS NOTED OR IN ACCORDANCE WITH THE NEC, WHICHEVER IS GREATER.
5. THE MINIMUM SIZE OF ALL CONDUCTORS NOT OTHERWISE INDICATED IS #12 AND THE MINIMUM SIZE OF ALL CONDUIT UNLESS OTHERWISE INDICATED IS 1/2 IN.
6. ALL JUNCTION BOXES SHALL BE PROVIDED WITH COVERS AND ALL UNUSED OPENINGS SHALL BE PLUGGED. ALL JUNCTION BOXES SHALL BE INDEPENDENTLY SUPPORTED FROM STRUCTURE. COVERS OF BOXES SHALL BE LABELED WITH THE CIRCUIT NUMBER WITH A BLACK PERMANENT MARKER IN 3/4 IN. HIGH LETTERS (LEGIBLE HANDWRITTEN LETTERING IS ACCEPTABLE).
7. ALL OUTLET BOXES SHALL BE SQUARE METAL BOXES. PROVIDE PLASTER RINGS FOR ALL OUTLET BOXES CONTAINING DEVICES TO PROVIDE A FIRM MOUNTING SUPPORT FOR THE DEVICE.
8. ALL CONVENIENCE RECEPTACLES SHALL BE SPECIFICATION GRADE 20 AMP RECEPTACLES, OWNER TO SELECT COLOR.
9. ALL LIGHT SWITCHES SHALL BE SPECIFICATION GRADE 20 AMP TOGGLE SWITCHES FULL LOAD RATED FOR TUNGSTEN-HALOGEN LAMPS, OWNER TO SELECT COLOR.
10. PROVIDE FACEPLATES FOR ALL RECEPTACLES AND SWITCHES. COORDINATE STYLE AND COLOR WITH OWNER'S PROJECT MANAGER.
11. PROVIDE BETWEEN 12 AND 24 INCHES OF LIQUID TIGHT FLEXIBLE CONDUIT BETWEEN RIGID CONDUIT AND ANY EQUIPMENT CONTAINING MOTORS. THE FLEXIBLE CONDUIT SHALL BE SUPPORTED TO PREVENT THE CONDUIT FROM RESTING ON THE GROUND OR CONCRETE PAD.
12. PROVIDE WEATHERPROOF RECEPTACLE WITHIN 25 FEET OF EACH PIECE OF EXTERIOR EQUIPMENT. THIS RECEPTACLE SHALL BE MOUNTED HORIZONTALLY WITH METAL HINGED "IN USE" COVER MOUNTED TO OPEN UP. THIS OUTLET SHALL BE A GFCI RECEPTACLE. THIS RECEPTACLE SHALL BE MOUNTED IN DIE CAST NON CORRODING METAL BOX.
13. WHEN OUTLETS OR BOXES ARE INDICATED INSTALLED ON OPPOSITE SIDES OF THE SAME WALL, THE CONTRACTOR SHALL ADJUST THE LOCATION TO OFFSET THE OUTLETS WITH A WALL STUD PROVIDING SEPERATION.

SECTION C: DISTRIBUTION EQUIPMENT

1. CONTRACTOR SHALL PROVIDE CONDUCTORS AND CONDUIT FOR ALL FEEDERS IN ACCORDANCE WITH THE PLANS.
2. SEPERATELY MOUNTED CIRCUIT BREAKERS SHALL BE MOUNTED IN NEMA TYPE I ENCLOSURES IN INDOOR APPLICATIONS AND IN NEMA 3R ENCLOSURES IN EXTERIOR OR WET LOCATIONS. ALL CIRCUIT BREAKER ENCLOSURES SHALL BE PROVIDED WITH HINGED COVERS AND PROVISIONS FOR PADLOCKING THE COVERS.
3. PROVIDE GFCI CIRCUIT BREAKERS AND RECEPTACLES AS INDICATED ON THE PLANS AND IN THESE SPECIFICATIONS. THESE DEVICES SHALL BE CLASS A GFCI DEVICES.
4. PROVIDE EACH PANELBOARD WITH A TYPED CIRCUIT BREAKER DIRECTORY CARD INSIDE A PLASTIC COVERING (EVERY CIRCUIT AND CIRCUIT MODIFICATION SHALL BE LEGIBLY IDENTIFIED AS TO ITS CLEAR, EVIDENT, AND SPECIFIC PURPOSE OR USE. THE IDENTIFICATION SHALL INCLUDE SUFFICIENT DETAIL TO ALLOW EACH CIRCUIT TO BE DISTINGUISHED FROM ALL OTHERS). THE DIRECTORY AND COVERING SHALL BE LOCATED INSIDE A STEEL FRAME PROVIDED INSIDE THE DOOR OF EACH PANELBOARD. THE DIRECTORY SHALL BE TYPED TO IDENTIFY THE LOAD FED BY EACH CIRCUIT BREAKER AND THE AREAS SERVED.

SECTION D: LIGHTING

1. TYPES AND SPECIFIC REQUIREMENTS ARE PROVIDED ON THE LIGHTING FIXTURE SCHEDULE ON THE PLANS. ALL LIGHT FIXTURES SHALL BE PROVIDED WITH LAMPS, DRIVERS, BALLASTS, AND FULLY FUNCTIONING AT COMPLETION OF PROJECT.
2. ALL FIXTURES SHALL BE FULLY LISTED AND HAVE A MINIMUM OF 5 YEAR ON-SITE REPLACEMENT WARRANTY FOR DEFECTIVE OR NON-STARTING LED SOURCE ASSEMBLIES, DRIVERS, AND FOR LUMINAIRES EXHIBITING INADEQUATE LUMEN OUTPUT. IT SHALL COVER MATERIAL, FIXTURE FINISH, WORKMANSHIP, AND SHIPPING. ON-SITE REPLACEMENT SHALL INCLUDE TRANSPORTATION, REMOVAL, AND INSTALLATION OF NEW FIXTURE.
3. RATED LUMINAIRE WATTAGE SHALL BE ACTUAL, ACCOUNTING FOR ANY REDUCTION IN EFFICIENCY DUE TO SUB-OPTIMAL LOADING OF DRIVERS.
4. DRIVERS SHALL BE CAPABLE OF ACCEPTING THE VOLTAGE INDICATED ON THE LIGHTING FIXTURE SCHEDULE AND CAPABLE OF DIMMING IF REQUIRED. DRIVERS SHALL HAVE A CLASS A RATING, TOTAL HARMONIC DISTORTION OF LESS THAN 20%, AND SHALL NOT CONTAIN ANY POLYCHLORINATED BIPHENYL (PCB).
5. ALL LED FIXTURES SHALL BE TESTED TO IES LM-79 AND IES LM-80 STANDARDS. OUTDOOR FIXTURES SHALL BE IP65 RATED. LED'S, DRIVERS AND ALL COMPONENTS SHALL HAVE A SYSTEM LIFETIME OF 50,000 HOURS OR MORE AT 25 DEGREES CELSIUS AND SHALL MAINTAIN A MINIMUM OF 85% OF INITIAL LUMEN OUTPUT AFTER 55,000 HOURS OF OPERATION. LED'S SHALL HAVE COLOR RENDERING INDEX (CRI) OF 80 OR GREATER.
6. ALL SURFACE MOUNTED FIXTURES SHALL BE INDEPENDENTLY SUPPORTED FROM STRUCTURE. ALL CEILING MOUNTED FIXTURES SHALL BE SUPPORTED FROM STRUCTURE AND BRACED TO PREVENT MOVEMENT IF IMPACTED.
7. ALL RECESSED FIXTURES IN LAY IN TYPE CEILINGS SHALL BE PROVIDED WITH GRID CLIPS TO FASTEN FIRMLY TO CEILING SUPPORT GRID. THE CEILING GRID SHALL BE SUPPORTED AT EACH CORNER OF A FIXTURE.
8. CONNECTION TO ALL FIXTURES IN LAYIN CEILING SHALL BE BY FLEXIBLE CONDUIT OF FOUR TO SIX FEET IN LENGTH. A GROUND CONDUCTOR WILL BE INCLUDED WITH THIS CONNECTION.
9. ALL LENSES ON FIXTURES SHALL BE 0.125 INCH THICK MINIMUM. ALL HOUSINGS SHALL BE 22 GAUGE STEEL MIN. AND HAVE A POST FABRICATION HIGH REFLECTIVE WHITE FINISH.

SECTION E: TELEPHONE/DATA SYSTEMS (RACEWAY & BOXES ONLY)

WORK INCLUDED:

1. PROVIDE 1 IN. EMT FROM EACH OUTLET TO ABOVE 12 INCHES ABOVE ACCESSIBLE CEILING. PROVIDE 4 IN. SQUARE BACKBOX WITH SINGLE GANG PLASTER RING FOR EACH TELEPHONE/DATA OUTLET. ALL CONDUIT SHALL BE CONCEALED. PROVIDE FACEPLATE WITH MODULAR JACKS. PROVIDE PULL STRING IN ALL EMPTY CONDUITS.

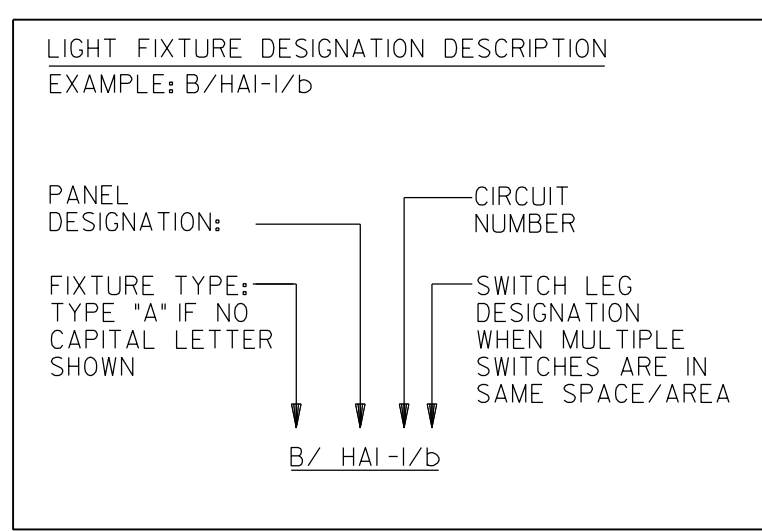
SECTION F: FIRE ALARM SYSTEM

1. MATCH EXISTING MANUFACTURER.
2. PROVIDE THE EXTENSION OF AN EXISTING COMPLETE OPERABLE FIRE ALARM SYSTEM FOR THIS PROJECT. THE MAIN PANEL SHALL BE LOCATED AS SHOWN. THE FIRE ALARM SYSTEM SHALL BE DESIGNED FOR CLASS B OPERATION. THE WIRING FOR THE FIRE ALARM SYSTEM SHALL BE INSTALLED IN 1/2 IN. ELECTRICAL METALLIC TUBING, PROVIDE INSULATED FITTINGS ON ALL CONDUIT ENDS. THE FIRE ALARM SHALL BE MADE IN THE USA AND BE UL LISTED. ALL WIRING AND DEVICES FOR THE SYSTEM SHALL BE SUPERVISED. COLOR CODE THE CONDUIT EVERY 24 IN. WITH RED MARKINGS (EXCEPT WHERE EXPOSED).
3. NEW DEVICES SHALL BE PROVIDED WITH RECESSED METAL BOXES. ALL DEVICES SHALL BE MOUNTED FLUSH WITH WALL EXCEPT FOR PULL STATIONS WHICH SHALL BE SEMI-FLUSH.
4. NEW HORN/SPEAKER DEVICES SHALL MEET THE REQUIREMENTS OF THE AMERICANS WITH DISABILITIES ACT. THE SPEAKER SHALL PRODUCE A SOUND LEVEL OF 90 DECIBELS AND THE STROBE SHALL PRODUCE A FLASHING PULSE OF LIGHT OF 75 CANDELA.
5. STROBE DEVICES SHALL PRODUCE A FLASHING PULSE OF LIGHT OF 75 CANDELLA.
6. PROVIDE CEILING MOUNTED SMOKE ALARMS WITH AUDIO ANNUNCIATION WHERE SHOWN. PROVIDE 9 VOLT BATTERY BACKUP. UNIT SHALL BE NORMALLY FED FROM NEAREST I20V CIRCUIT WITHIN SLEEPING UNIT UNLESS OTHERWISE NOTED ON DRAWINGS. UNIT SHALL ONLY ANNUNCIATE LOCALLY.
7. THE GENERAL BUILDING ALARM WILL SOUND WHEN ACTIVATED AT THE CONTROL PANEL, BY SMOKE OR HEAT DETECTORS, OR BY A PULL STATION. ALARM WILL ALSO SOUND WHEN ACTIVATED BY A DUCT SMOKE DETECTOR OR SPRINKLER.

LIGHTING FIXTURE SCHEDULE

TYPE	DESCRIPTION	MANUFACTURER
A	2 FT. X 4 FT. RECESSED CONTEMPORARY LOW PROFILE ARCHITECTURAL TROFFER WITH ACRYLIC CENTER LENS AND MATTE WHITE POWDER PAINT REFLECTOR; STANDARD 0-10 DIMMING. LAMPS: LED, 4800 LUMENS MINIMUM, 45 WATTS, 3500 DEGREE K DRIVER: UNV. VOLT	LITHONIA "BLT" SER., COLUMBIA "LCAT" SER., METALUX "CRUZE ST" SER.
B	2 FT. X 4 FT. RECESSED CONTEMPORARY LOW PROFILE ARCHITECTURAL TROFFER WITH ACRYLIC CENTER LENS AND MATTE WHITE POWDER PAINT REFLECTOR; STANDARD 0-10 DIMMING. LAMPS: LED, 4000 LUMENS MINIMUM, 38 WATTS, 3500 DEGREE K DRIVER: UNV. VOLT	LITHONIA "BLT" SER., COLUMBIA "LCAT" SER., METALUX "CRUZE ST" SER.
B2	2 FT. X 2 FT. RECESSED CONTEMPORARY LOW PROFILE ARCHITECTURAL TROFFER WITH ACRYLIC CENTER LENS AND MATTE WHITE POWDER PAINT REFLECTOR; STANDARD 0-10 DIMMING. LAMPS: LED, 3400 LUMENS MINIMUM, 27 WATTS, 3500 DEGREE K DRIVER: UNV. VOLT	LITHONIA "BLT" SER., COLUMBIA "LCAT" SER., METALUX "CRUZE ST" SER.
⊙	LED THERMOPLASTIC EXIT, IMPACT/SCRATCH RESISTANT AND CORROSION PROOF; TOP, END, OR BACK MOUNTING STANDARD. (PROVIDE 90 MINUTE BATTERY BACK-UP.) LAMPS: LED (2) 1.5W BALLAST: UNV. VOLT	COMPASS "CE" SER., LITHONIA "LHQM LED" SER., SURELITES "LPX" SER.,

NOTES:
1. CONTRACTOR TO VERIFY ALL VOLTAGES, GRID AND CEILING TYPES WITH THE ARCHITECT AND COORDINATE FIXTURE DIMENSION SIZE TO ENSURE A PROPER FIT IN ALL CEILING TYPES PRIOR TO ORDERING.



PROVIDE ALL BRANCH CIRCUIT CONDUIT/CONDUCTORS AS NECESSARY TO CONNECT ALL DEVICES SHOWN ON THE CIRCUIT. PROVIDE DEDICATED NEUTRALS FOR ALL CIRCUITS.

GENERAL NOTES:

- A. ALL FLUSH RECESSED OUTLET BOXES SHALL BE INSTALLED SUCH THAT FRONT EDGE OF THE BOX WILL NOT BE SET BACK OF THE FINISHED SURFACE MORE THAN 1/4 IN. IN ORDER TO COMPLY WITH N.E.C. 314-20. SUPPORT OF OUTLET BOX BY RECEPTACLE AND COVERPLATE IS NOT ACCEPTABLE. CAREFULLY COORDINATE ROUGH-IN WITH BLOCK MASONS AND GROUT-IN CELL CONTAINING OUTLET BOX.
- B. ALL VOICE/DATA, AND CATV CABLING, DEVICES AND CONTROL EQUIPMENT BY OTHERS EXCEPT AS NOTED, RACEWAY SYSTEMS ONLY PROVIDED BY ELECTRICAL CONTRACTOR.
- C. DO NOT SCALE DRAWINGS TO LOCATE EQUIPMENT OR OUTLETS. MOUNTING HEIGHTS AS INDICATED ON THE DRAWINGS SHALL BE FROM THE FINISHED FLOOR TO THE CENTER LINE OF THE OUTLET BOX.
- D. THE ELECTRICAL DRAWINGS ARE ONLY A PART OF THE CONTRACT DOCUMENTS. ALL OF THE DRAWINGS AND SPECIFICATIONS MUST BE REVIEWED FOR THEIR INTERRELATIONSHIP AND REQUIRED COORDINATION BETWEEN DISCIPLINES.

ELECTRICAL LEGEND

LIGHTING AND POWER	
	CONDUIT RUN CONCEALED ABOVE CEILING OR IN WALL. HASH MARKS INDICATE NUMBER OF CONDUCTORS. (3 WIRE UNLESS SHOWN)
	CONDUIT RUN CONCEALED BELOW FLOOR SLAB, OR UNDERGROUND.
	HOMERUN TO PANELBOARD, LETTER OR LETTERS INDICATE PANELBOARD. NUMBERS INDICATES CIRCUIT NUMBERS.
	LIGHT FIXTURE, SEE SCHEDULE FOR MOUNTING AND TYPE.
	LIGHT FIXTURE, SEE SCHEDULE FOR MOUNTING AND TYPE. HASH MARK DENOTES EMERGENCY FIXTURE WITH 100 LUMEN BATTERY BACKUP.
	DUPLEX CONVENIENCE OUTLET, 18 IN. ABOVE FLOOR UNLESS OTHERWISE NOTED.
	DUPLEX CONVENIENCE OUTLET, MOUNTED ABOVE COUNTER AT 3 FT.- 4 IN. TO BOTTOM OF BOX.
	DUPLEX CONVENIENCE OUTLET, GFI TYPE, 18 IN. MOUNTING HEIGHT. "WP" WHERE SHOWN INDICATES WEATHERPROOF. PROVIDE METAL IN USE WEATHERPROOF COVERPLATE.
	DUPLEX CONVENIENCE OUTLET, GFI TYPE, MOUNTED ABOVE COUNTER, MOUNT AT 3 FT.- 4 IN. TO BOTTOM OF BOX.
	QUADRUPLEX CONVENIENCE OUTLET, 18 IN. ABOVE FLOOR UNLESS OTHERWISE NOTED.
	SPECIAL RECEPTACLE TO SUIT EQUIPMENT BEING FURNISHED.
	SINGLE POLE TOGGLE SWITCH, 42 IN. MOUNTING HEIGHT.
	THREE OR FOUR WAY SWITCH AS INDICATED, 42 IN. MOUNTING HEIGHT.
	0-10 VOLT SLIDE TYPE DIMMER, 42 IN. ABOVE FLOOR. (MANUAL ON TO 50%, DIM 1 - 100%, AUTO OFF PER IECC 2015.)
	PANELBOARD, SEE SCHEDULE.
	DISCONNECT SWITCH, SIZE AS NOTED ON DRAWINGS.

TELEPHONE & DATA SYSTEMS

COMBINATION COMPUTER AND TELEPHONE OUTLET, 18 IN. TO CENTER LINE OF OUTLET UNLESS NOTED OTHERWISE. (2 DATA, 1 TEL.)

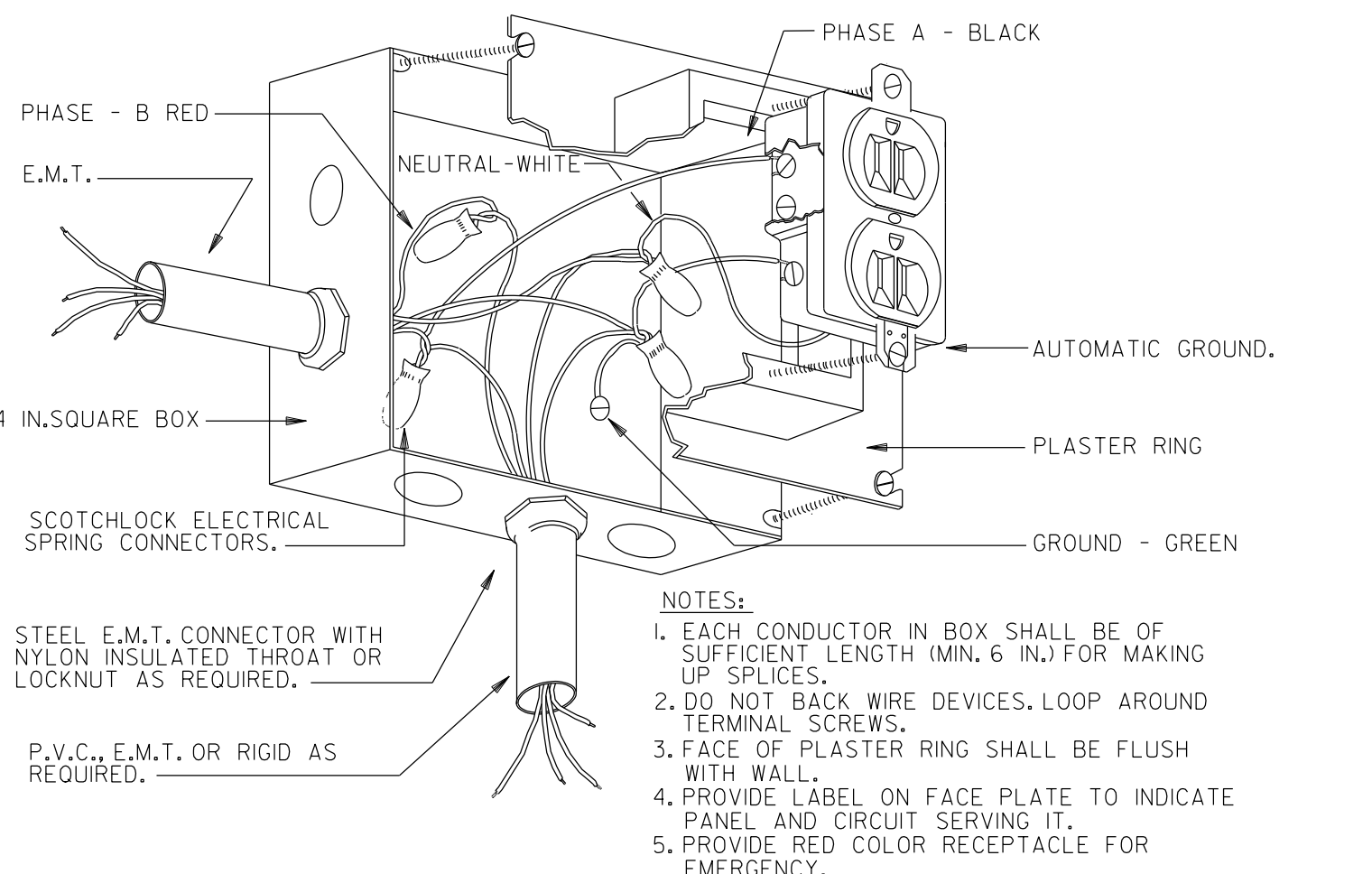
LIGHTING CONTROL SENSORS

COMBINATION 360 DEGREE, ULTRASONIC AND PASSIVE INFRARED SENSOR (WATT STOPPER 10T-300; GREENGATE, NOVITAS, HUBBELL, LEVITON, SENSOR SWITCH. V INDICATES VACANCY SENSOR. UNIT MUST COMPLY WITH IECC 2015 REQUIREMENTS.)
WALL MOUNTED SENSOR SWITCH, 42 IN. MOUNTING HEIGHT (WATTSTOPPER DW-100, GREENGATE, NOVITAS, HUBBELL, LEVITON, SENSOR SWITCH).

FIRE ALARM SYSTEM (DISCRETELY ADDRESSABLE W/ VOICE EVAC UNIT)

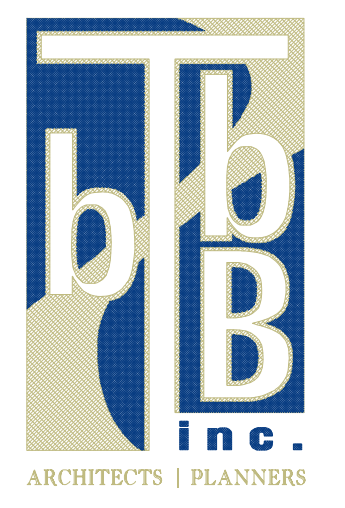
FIRE ALARM SIGNAL, SPEAKER AND FLASHING LIGHT. 6 FT.-8 IN. MOUNTING HEIGHT.
STROBE LIGHT, 80 IN. ABOVE FLOOR TO THE BOTTOM OF THE LENS.

NOTES:
1. ALL MOUNTING HEIGHTS ARE FROM FINISHED FLOOR TO CENTERLINE OF OUTLET OR DEVICE.
2. ALL RECEPTACLES SHALL BE TAMPER RESISTANT (TYPE "TR").

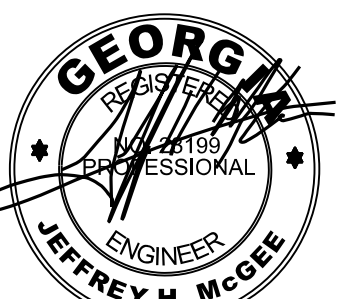


RECEPTACLE CONNECTION DETAIL

NOT TO SCALE



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RENOVATIONS OF
BIBB COUNTY COURTHOUSE
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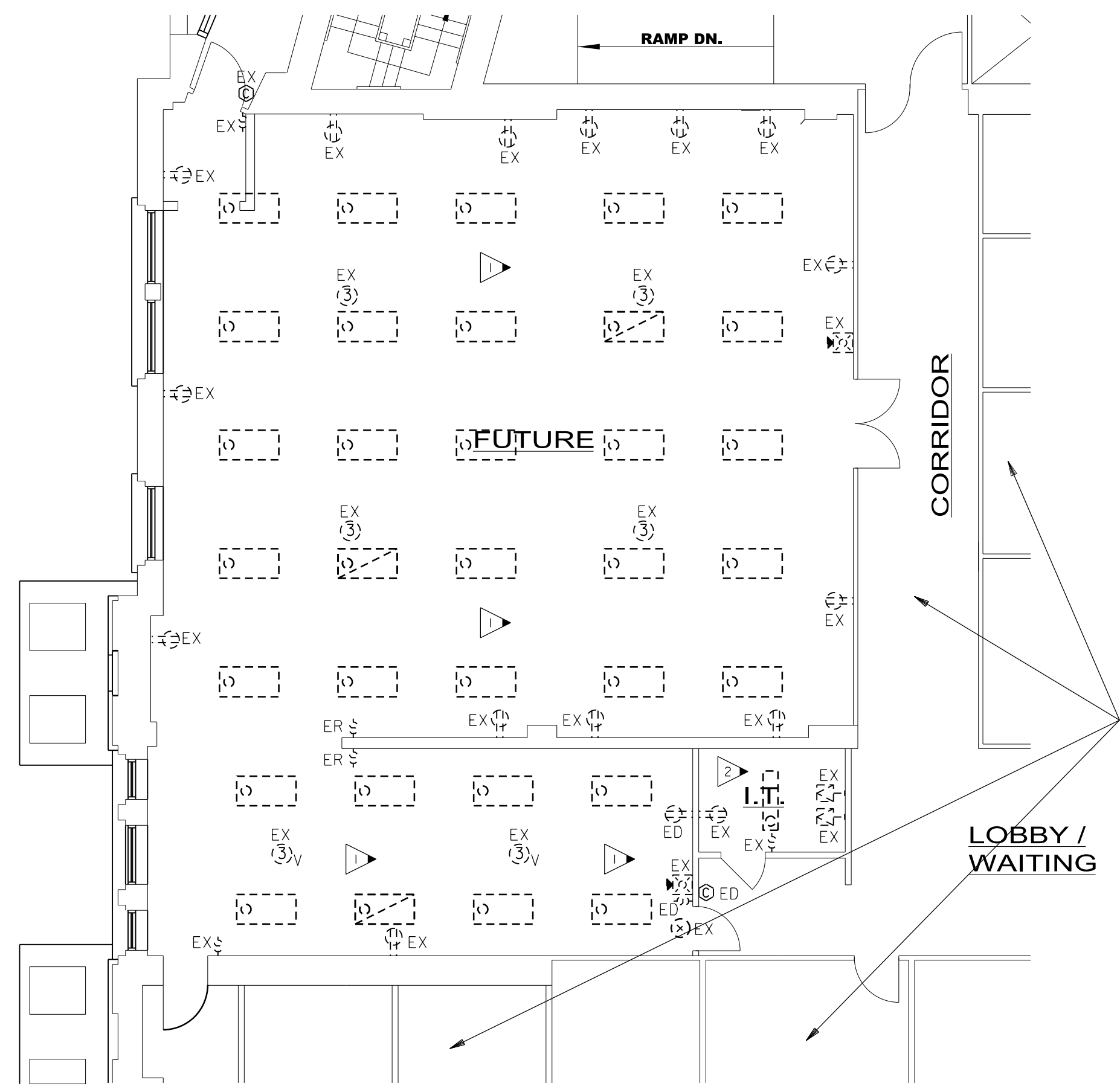
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4-07-2023	Permit Set
Project No:	2022-44

ELECTRICAL DESIGN

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ELECTRICAL LEGEND, SCHEDULES AND DETAILS

E0.1



KEYED NOTES: (THIS SHEET ONLY)

- ▶ EXISTING LIGHTING IN THIS AREA TO BE REPLACED WITH NEW, SEE E2.1 FOR NEW FLOOR PLAN AND LIGHTING LAYOUT, BRANCH CIRCUITRY TO BE REWORKED WHERE SHOWN BASED ON NEW LAYOUT AND DESIGN INTENT.
- ▶ EXISTING LIGHTING IN THIS AREA TO REMAIN AS IS.

DEMOLITION LEGEND

ED	EXISTING DEVICE TO BE DEMOLISHED.
ER	EXISTING DEVICE TO BE RELOCATED, PROVIDE NEW DEVICE AND FACEPLATE.
EX	EXISTING DEVICE TO REMAIN, PROVIDE NEW DEVICE AND FACEPLATE.

NO WORK IN THIS AREA UNLESS OTHERWISE REQUIRED FOR NEW WORK SHOWN.

PARTIAL 5TH FLOOR - DEMOLITION
 SCALE: 1/8" = 1'-0"
 0 4' 8'

GENERAL DEMOLITION NOTES: (THIS SHEET ONLY)

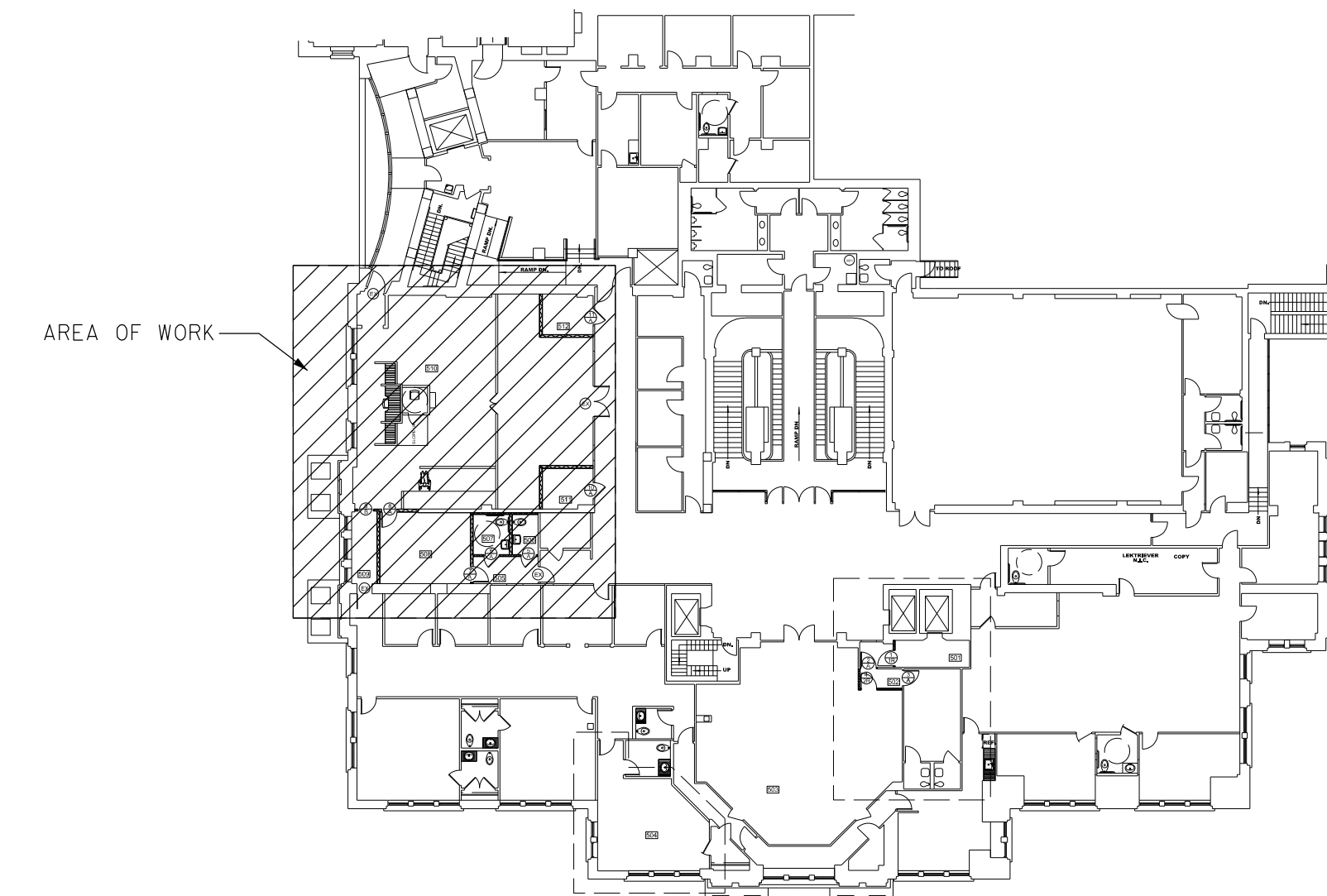
- A. REMOVE EXISTING LIGHTS AND DISPOSE OF AS DIRECTED BY OWNER.
- B. PROVIDE BLANK COVERS ON ALL JUNCTION BOXES AND OUTLET BOXES NOT INTENDED FOR REUSE.
- C. EXISTING CEILINGS, WALLS, AND FLOORS DISTURBED OR DISFIGURED BY THE ELECTRICAL RENOVATION SHALL BE PATCHED, MENDED OR REPLACED BY TRADES ACTIVELY PARTICIPATING IN THIS TYPE OF WORK. RESPONSIBILITY FOR REPAIRS SHALL BE COORDINATED BETWEEN GENERAL CONTRACTOR AND ELECTRICAL SUBCONTRACTOR.
- D. ALL EXISTING EQUIPMENT REMOVED FROM SERVICE AND NOT INTENDED FOR REUSE SHALL REMAIN THE PROPERTY OF OWNER AND SHALL BE DISPOSED OF OR STORED AS DIRECTED BY THE OWNER.
- E. MAINTAIN SERVICE TO ALL EXISTING CIRCUITS THAT ARE NOT SCHEDULED FOR REMOVAL.
- F. ALL ACCESSIBLE ITEMS OF ELECTRICAL EQUIPMENT CONDUITS, WIRING, LIGHTS, RECEPTACLES, ETC. AFFECTED BY THE RENOVATION WORK AND NOT REQUIRED IN THE COMPLETED WORK SHALL BE CAREFULLY REMOVED. DAMAGED WALLS, FLOORS, CEILINGS, ETC. SHALL BE PATCHED AND FINISHED TO MATCH THE EXISTING ADJACENT SURFACES. REMOVED ITEMS SHALL BE PROPERLY DISPOSED OF OFF SITE AND NOT REUSED EXCEPT AS NOTED. TURN OVER ALL EXISTING EQUIPMENT DESIRED BY BUILDING OWNER.
- G. RECONNECT CIRCUITS AS REQUIRED TO MAINTAIN CONTINUITY TO EXISTING DEVICES AND EQUIPMENT TO REMAIN.
- H. WHERE ONLY A PORTION OF A CIRCUIT'S LOAD IS SCHEDULED TO BE REMOVED, REMOVE ONLY THAT PORTION ASSOCIATED WITH THE DEMOLISHED DEVICE TO A POINT WHERE THE REMAINING LOAD IS ACTIVE AND MAINTAIN IN A GOOD OPERATING CONDITION.
- J. EXISTING EQUIPMENT SHOWN ON ARCHITECTURAL, MECHANICAL, PLUMBING AND ELECTRICAL DRAWINGS THAT WILL REMAIN SHALL HAVE SERVICE MAINTAINED OR RECONNECTED TO EXISTING OR NEW PANELBOARD AS NECESSARY.
- K. TO MAINTAIN SERVICE OR TO EXTEND OR RECONNECT CIRCUITS WHERE CONDUIT CAN NOT BE CONCEALED, SURFACE METAL RACEWAY (WIREMOLD V700 SERIES PAINTED TO MATCH WALLS) MAY BE USED. VERIFY WITH ARCHITECT BEFORE INSTALLING.
- L. ELECTRICAL CONTRACTOR SHALL REVIEW ARCHITECTURAL DRAWINGS AND SITE CONDITIONS FOR DOOR SWINGS, CABINETS, COUNTERS AND OTHER BUILT-IN EQUIPMENT, CONDITIONS INDICATED ON ARCHITECTURAL DRAWING SHALL GOVERN.
- M. COORDINATE ELECTRICAL WITH ARCHITECTURAL DETAILS, FLOOR PLANS, ELEVATIONS, STRUCTURAL, MECHANICAL AND PLUMBING DRAWINGS. PROVIDE FITTINGS, JUNCTION BOXES AND ACCESSORIES TO MEET CONDITIONS. COORDINATE ROUTING OF ALL NEW FEEDERS WITH EXISTING SITE ELEMENTS. ALL FEEDERS SHALL BE CONCEALED EXCEPT IN MECHANICAL/ELECTRICAL SPACES WITH SURFACE MOUNTED PANELS.
- N. INSURE ALL EXISTING TELEPHONE, DATA, TELEVISION, INTERCOM, FIRE ALARM, SECURITY AND OTHER LOW VOLTAGE CABLING IS SECURED TO STRUCTURE AND PROTECTED FROM DAMAGE DURING DEMOLITION AND NEW CONSTRUCTION. CONTRACTOR IS RESPONSIBLE FOR KEEPING ALL SYSTEMS IN WORKING ORDER.
- O. PROVIDE COVERS FOR ANY OPEN JUNCTION BOXES IN AREA BEING RENOVATED.
- P. SUPPORT EXISTING POWER RACEWAY TO REMAIN WHERE NOT SUPPORTED PER 2020 NEC IN AREA BEING RENOVATED.

COORDINATION NOTE:

CONTRACTOR SHALL CAREFULLY REVIEW HVAC AND ELECTRICAL DRAWINGS PRIOR TO BID. ALL HVAC EQUIPMENT TO REMAIN, EQUIPMENT BEING REPLACED, AND NEW EQUIPMENT SHALL BE PROVIDED POWER. ELECTRICAL DRAWINGS SHOW THE MEANS OF PROVIDING POWER. HOWEVER, ALL EQUIPMENT MUST BE POWERED WHETHER SHOWN OR NOT.

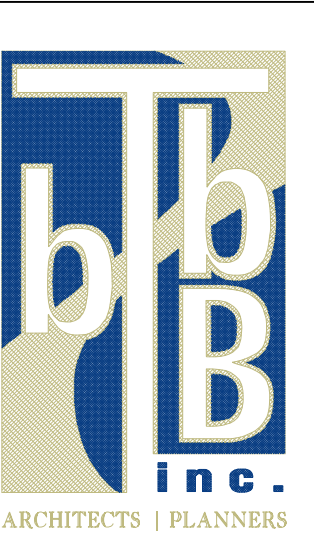
WHERE ELECTRICAL DRAWINGS SHOW PROVIDING BREAKERS IN EXISTING PANELS TO SERVE EQUIPMENT, CONTRACTOR SHALL VERIFY AVAILABLE SPACE. IF NOT AVAILABLE, CONTRACTOR SHALL PROVIDE BREAKER IN CLOSEST PANEL WITH AVAILABLE CAPACITY AND SPACE.

ALL EQUIPMENT MUST BE PROVIDED WITH A DISCONNECTING MEANS PER THE 2020 NEC (WHETHER OR NOT SHOWN ON ELECTRICAL DRAWINGS OR DIVISION 23)

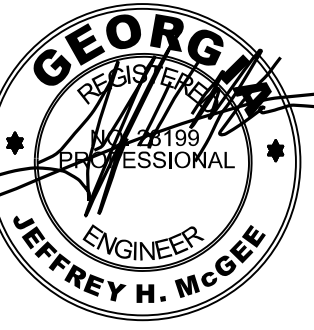


KEY PLAN

ELECTRICAL DESIGN
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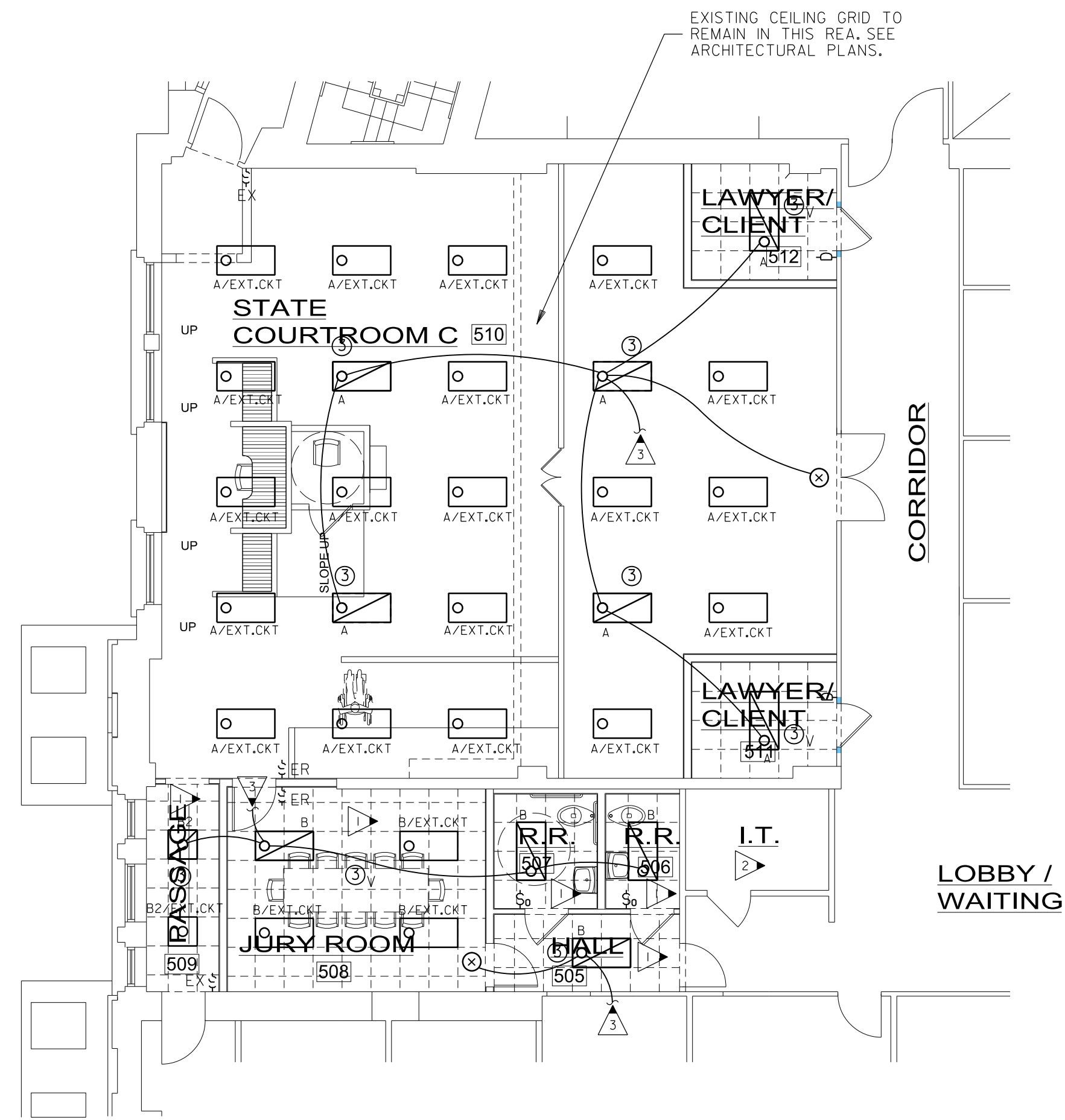
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RENOVATIONS OF
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PARTIAL 5TH FLOOR - DEMOLITION

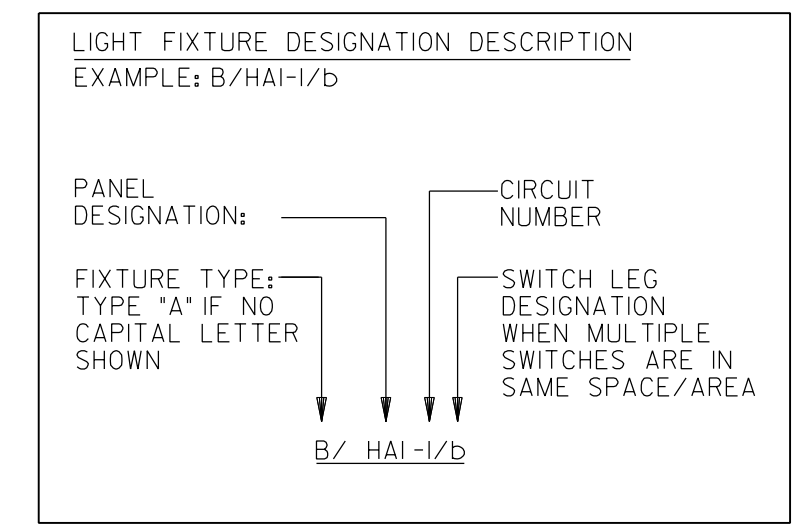
E1.1



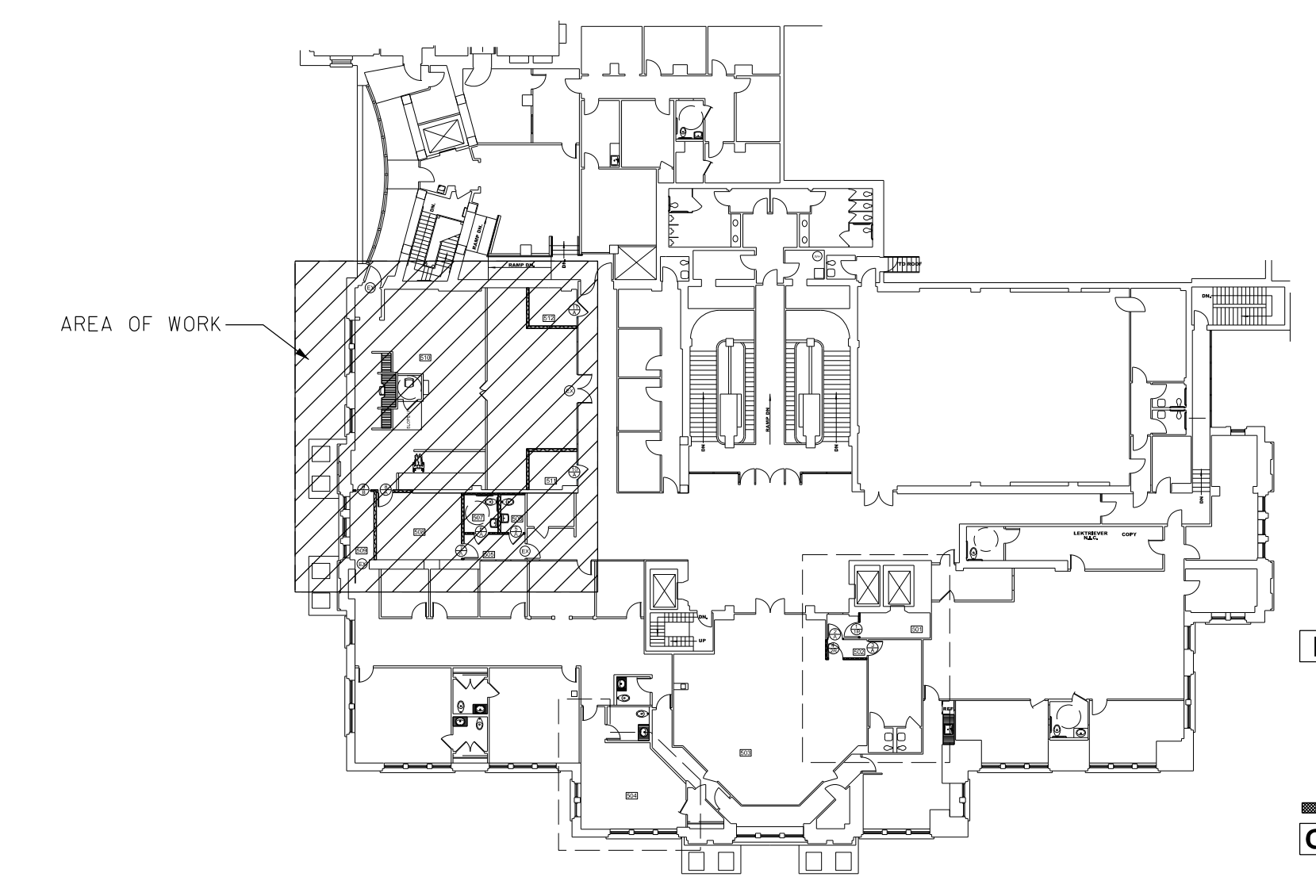
**PARTIAL 5TH FLOOR
COURT ROOM C - LIGHTING**
E2.1 SCALE: 1/8" = 1'-0" 0 4 8'

- KEYED NOTES:** (THIS SHEET ONLY)
- ▶ RECONNECT TO EXISTING LIGHTING CIRCUIT THAT PREVIOUSLY SERVED THIS AREA. REWORK AS SHOWN.
 - ▶ EXISTING LIGHTING TO REMAIN AS IS IN THIS AREA.
 - ▶ CIRCUIT TO EXISTING EMERGENCY LIGHTING CIRCUIT IN THIS AREA (PANEL LEP).

- GENERAL NOTES:**
- A. THIS PLAN INDICATES AREAS TO BE CONTROLLED BY MOTION SENSORS. SINCE COVERAGES AND DEVICES VARY BETWEEN MANUFACTURERS IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO COORDINATE PROPER DEVICE LOCATION, ORIENTATION AND QUANTITIES WITH THE MANUFACTURER OF THE SYSTEM BEING INSTALLED TO MEET THE SPECIFIED CRITERIA.
 - B. ALL AREAS OF THIS PLAN REQUIRE OCCUPANCY SENSOR COVERAGE (EXCEPT PROCEDURE #1 AND #2, MECHANICAL, ELECTRICAL ROOMS). SEE LIGHTING SENSOR LEGEND.
 - C. THERE ARE NO SWITCHPACKS SHOWN ON THIS PLAN. PROVIDE SWITCHPACKS AS REQUIRED WITH SENSORS. SWITCHPACKS ARE TO BE RATED AT 20A. PROVIDE ONE SWITCHPACK PER 20A LIGHTING CIRCUIT OR PER INDIVIDUAL AREA BEING CONTROLLED.
 - D. CEILING SENSORS ARE TO BE MOUNTED AWAY FROM ANY STRONG AIRFLOW. COORDINATE LOCATION OF SENSOR WITH MECHANICAL AND LIGHTING PLANS.
 - E. ALL SENSORS SHALL BE CEILING MOUNTED EXCEPT WHERE CEILING HEIGHTS EXCEED 15 FT.-0 IN. PROVIDE SENSOR WITH ADAPTOR PLATE FOR JUNCTION BOX MOUNTING (JUNCTION BOX SHALL BE CONCEALED ABOVE ACCESSIBLE CEILING) JUNCTION BOX SHALL BE SUPPORTED FROM STRUCTURE UTILIZING A 3/8 IN. THREADED ROD. WHERE CEILING HEIGHTS EXCEED 15 FT.-0 IN. WALL MOUNT SENSORS AT 12 FT.-0 IN.
 - F. PROVIDE UNSWITCHED HOT CONDUCTOR TO ALL EMERGENCY AND EXIT LIGHTS.



PROVIDE ALL BRANCH CIRCUIT CONDUIT/CONDUCTORS AS NECESSARY TO CONNECT ALL DEVICES SHOWN ON THE CIRCUIT. PROVIDE DEDICATED NEUTRALS FOR ALL CIRCUITS.



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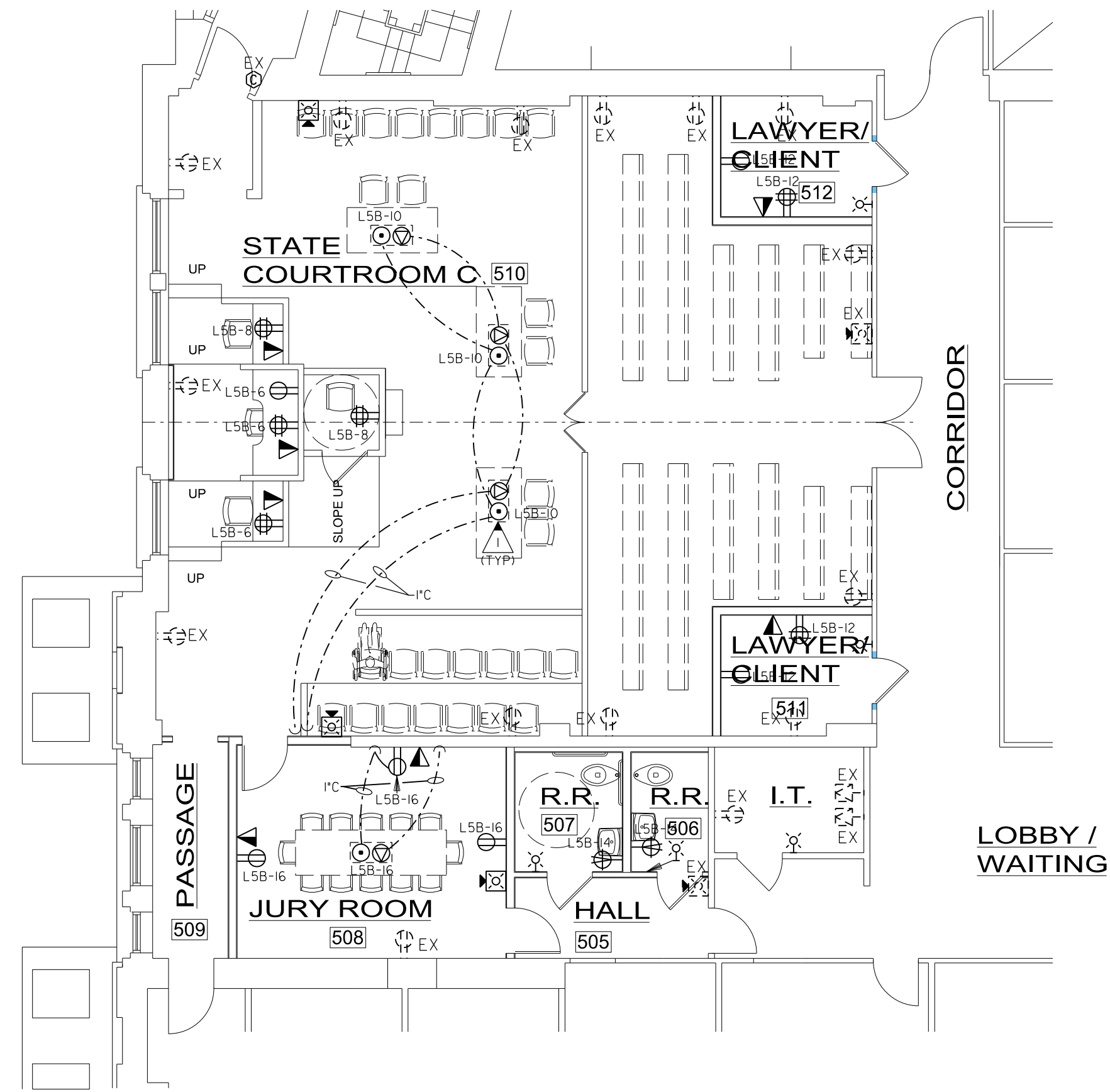
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**PARTIAL 5TH FLOOR
- LIGHTING**
E2.1



1 PARTIAL 5TH FLOOR COURT ROOM C - POWER AND SYSTEMS
E3.1 SCALE: 1/8" = 1'-0"

KEYED NOTES: (THIS SHEET ONLY)

- ▶ SAW CUT FLOOR FOR NEW FLOOR BOX, PATCH AND FINISH TO MATCH THE EXISTING SURFACES.

GENERAL NOTES:

- A. COORDINATE EXACT LOCATIONS OF ALL MECHANICAL EQUIPMENT PRIOR TO ELECTRICAL ROUGH-IN.
- B. ALL FLEXIBLE CONDUIT SHALL BE METALLIC WATERPROOF.
- C. COORDINATE FINAL RECEPTACLE AND VOICE/DATA OUTLET LOCATIONS WITH ARCHITECTURAL CASEWORK AND OWNER PRIOR TO ROUGH-IN, NO EXCEPTIONS.
- D. COORDINATE EXACT CONDUIT REQUIREMENTS FOR THERMOSTATS TO ALL AIR HANDLING UNITS, SEE MECHANICAL DRAWINGS FOR EXACT LOCATIONS.
- E. FIRE SEAL ALL FIREWALL PENETRATIONS.

PROVIDE ALL BRANCH CIRCUIT CONDUIT/CONDUCTORS AS NECESSARY TO CONNECT ALL DEVICES SHOWN ON THE CIRCUIT. PROVIDE DEDICATED NEUTRALS FOR ALL CIRCUITS.

PROVIDE \$75K ALLOWANCE FOR COURTROOM A/V EQUIP, CABLING, TERMINATIONS AND TESTING.

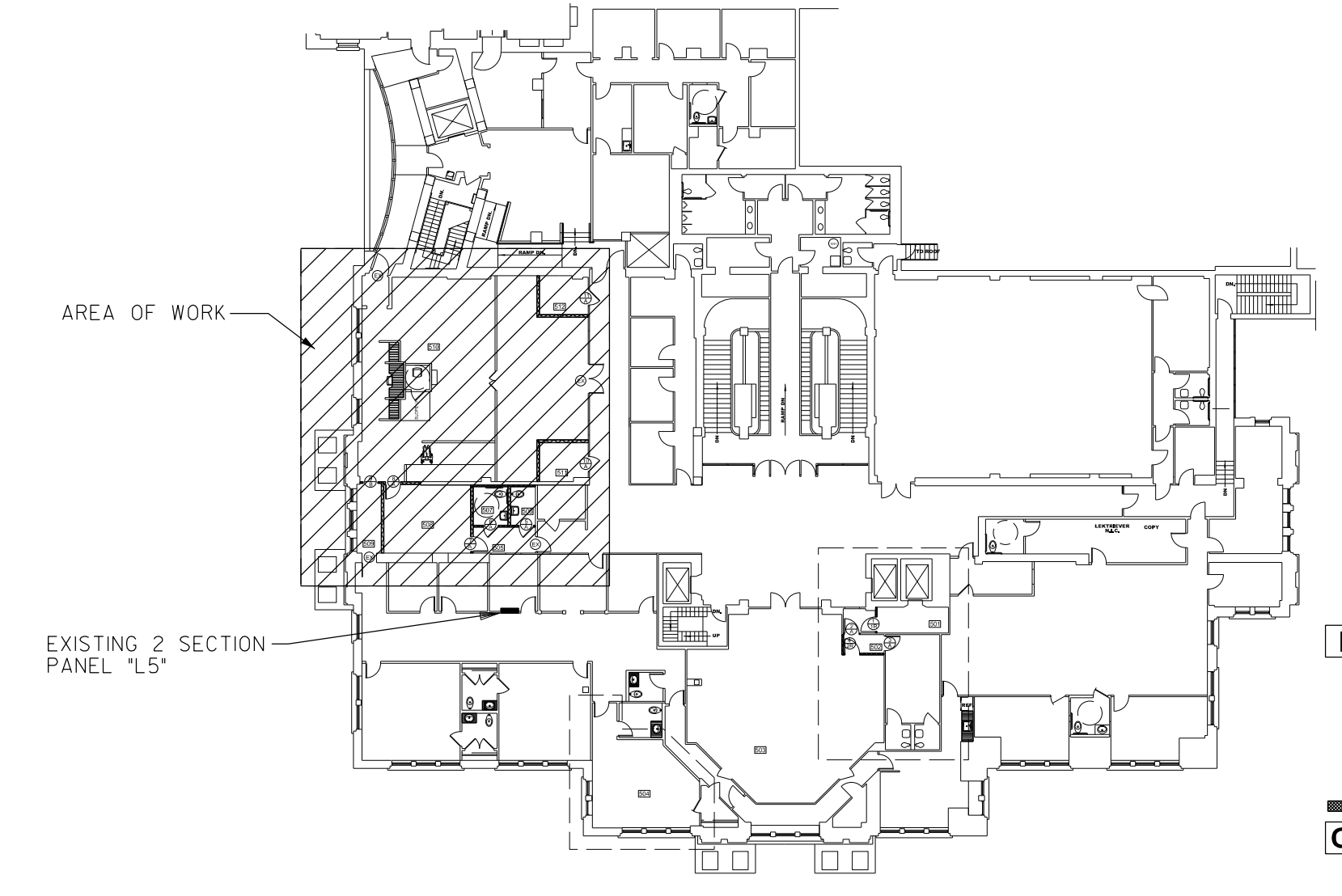
PROVIDE \$6,500 ALLOWANCE FOR DOOR ACCESS CONTROLS.

DESCRIPTION	VOLT AMPS			BRKR AMP	P	CKT NO	BUS CONN	CKT NO	BRKR P	AMP	VOLT AMPS			DESCRIPTION
	A	B	C								C	B	A	
LIGHTS						1	A	2	2	30				WH-1
LIGHTS						3	B	4						
LIGHTS						5	C	6	1	20	1200			**JUDGE RECEP.
RECEPTACLES						7	A	8	1	20		800		**JUDGE RECEP.
RECEPTACLES						9	B	10	1	20		600		**FLOOR BOXES
RECEPTACLES						11	C	12	1	20	1200			**CLIENT RECEP.
RECEPTACLES						13	A	14	1	20		400		**BATH RECEP.
RECEPTACLES						15	B	16	1	20		800		**JURY RECEP.
RECEPTACLES						17	C	18						
RECEPTACLES						19	A	20						
RECEPTACLES						21	B	22						
RECEPTACLES						23	C	24						
DISHWASHER						25	A	26						
RECEPTACLES						27	B	28						
WORK STATIONS						29	C	30						
WORK STATIONS						31	A	32						
WORK STATIONS						33	B	34						
WORK STATIONS						35	C	36						
WORK STATIONS						37	A	38						
WORK STATIONS						39	B	40						
WORK STATIONS						41	C	42						
TOTALS	0	0	0								2400	1400	1200	

VOLTAGE: 120 208
PHASE 3 WIRE 4
BUS AMPS: 225
PANEL MAIN AMPS: 225
LOCATION MOUNTING: MAIN
OFFICE 538: RECESSED LUG

REMARKS: (EXISTING PANEL)
*NEW BREAKER

VOLT AMPS: BUS A 1200, BUS B 1400, BUS C 2400, TOTAL 5000



KEY PLAN

ELECTRICAL DESIGN
EDC
CONSULTANTS, INC.
175 NEW ST., STE. 1
MACON, GA 31201
EDC M23034

609 Cherry Street, Macon, GA 31201
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RENOVATIONS OF
BIBB COUNTY COURTHOUSE
MACON, GEORGIA

Drawing Issue Schedule

4-07-2023	Permit Set

Project No: 2022-44

PARTIAL 5TH FLOOR - POWER AND SYSTEMS
E3.1