SOUTH RIDGE CHURCH 2020 INTERNATIONAL PARKWAY FREDRICKSBURG, VA 22406

ARCHITECT

BRADFIELD RICHARDS RHODES AND ASSOCIATES, ARCHITECTS, INC.
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STRUCTURAL ENGINEER:

CONSTRUCTION ENGINEERING SERVICES PO BOX 1658 CLARKESVILLE, GA 30523

SAMUEL T. WILLIAMS, PE 106.768.2343 TIM.WILLIAMS077@GMAIL.COM

MECHANICAL / PLUMBING ENGINEER:

JHE ENGINEERS, LLC

5014 KINGSBRIDGE PASS

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ELECTRICAL ENGINEER:

JHE ENGINEERS, LLC

5014 KINGSBRIDGE PASS

POWDER SPRINGS, GEORGIA 30127

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OWNER:

SOUTH RIDGE CHURCH FREDERICKSBURG, VA

JEFF GEYER 469.713.7970

APPLICABLE CODES

BUILDING CODES APPLICABLE TO THIS PROJECT INCLUDE, BUT ARE NOT LIMITED TO THE FOLLOWING:

BUILDING CODE: 2015 Virginia Construction Code

LIFE SAFETY: NFPA 101 Life Safety 2012

FIRE CODE: 2015 Virginia Statewide Fire Prevention Code

ENERGY CODE: 2015 Virginia Energy Conservation Code

MECHANICAL CODE: 2015 Virginia Mechanical Code

ELECTRICAL CODE: 2014 National Electrical Code (NFPA 70)

PLUMBING: 2015 Virginia Plumbing Code

ACCESSIBILITY CODE: 2010 ADA Standards for Accessible Design

2015 Virginia Fuel Gas Code

PROJECT DATA

FUEL & GAS CODE:

OCCUPANCY CLASSIFICATION: A-3

OCCUPANT LOAD: 424 TOTAL OCCUPANTS

BUILDING AREA: 11,000 GROSS SQUARE FEET

BUILDING HEIGHT AND AREA MODIFICATIONS: UNLIMITED AREA

CONSTRUCTION TYPE:

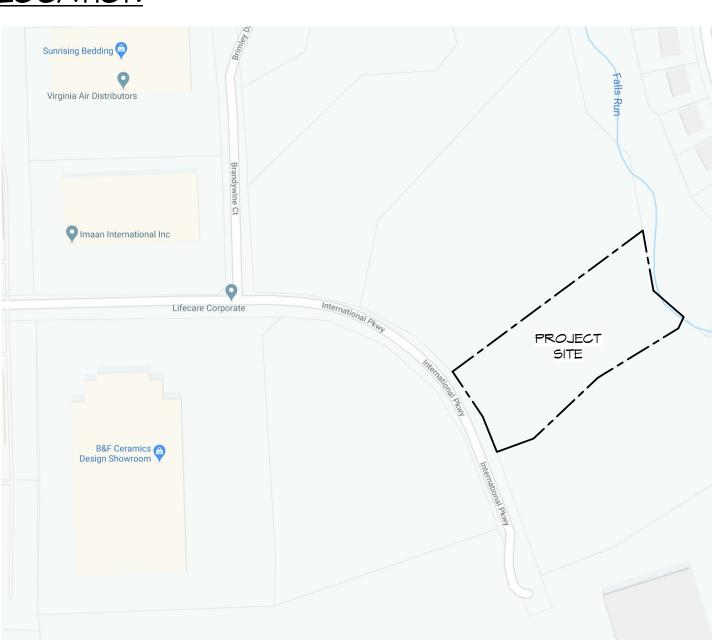
TYPE IIIB - SPRINKLED

FIRE PROTECTION OF STRUCTURAL ELEMENTS:

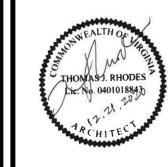
FIRE PROTECTION REQUIREMENTS:

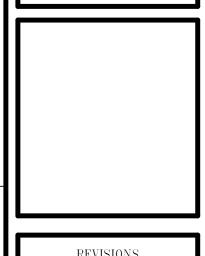
NOT REQUIRED PER 2015 VIRGINIA CONSTRUCTION CODE 2015 TABLE 1020.1

LOCATION



GENERAL GO COVERSHEET L-1 LIFE SAFETY ARCHITECTURAL AO.2 SLAB PLAN AO.3 DUMPSTER DETAILS A1.0 FLOOR PLAN - MAIN LEVEL A1.1 FLOOR PLAN - MECHANICAL MEZZANINE A1.3 ROOF PLAN A2.1 REFLECTED CEILING PLAN - MAIN LEVEL A3.1 EXTERIOR ELEVATIONS A3.2 BUILDING SECTIONS A4.1 BATHROOM ELEVATIONS AND DETAILS A4.2 INTERIOR ELEVATIONS AND DETAILS A4.3 INTERIOR ELEVATIONS AND DETAILS A4.3 INTERIOR ELEVATIONS AND DETAILS A5.1 PARTITION TYPES A6.1 DOOR SCHEDULE AND DETAILS A6.2 STOREFRONT AND WINDOW DETAILS A9.1 FINISH SCHEDULE A9.2 FINISH PLAN STRUCTURAL SO.1 STRUCTURAL NOTES					
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50 1 STRUCTURAL NOTES					
51.0 FOUNDATION PLAN					
52.0 SLAB PLAN					
53.0 FRAMING PLAN - MEZZANINE					
53.1 MEZZANINE FRAMING SECTIONS	MEZZANINE FRAMING SECTIONS				
54.0 LIGHTGAGE METAL DETAILS	LIGHTGAGE METAL DETAILS				
55.0 DUMPSTER FOUNDATION AND FRAMING					
56.0 MASONRY DETAILS					
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MECHANICAL					
MOO1 MECHANICAL AND PLUMBING SPECIFICATIONS					
MOO2 MECHANICAL SCHEDULES AND DETAILS					
M101 MECHANICAL FLOOR PLAN					
M102 MECHANICAL PERSPECTIVE PLAN					
ELECTRICAL					
EOOO ELECTRICAL LEGEND/SPECS					
E101 POWER PLAN					
E201 LIGHTING PLAN					
E301 HVAC POMER PLAN E401 ELECTRICAL RISER AND DETAILS					
E501 ELECTRICAL PANELS AND SCHEDULES					
PLUMBING					
POOT PLUMBING SCHEDULE AND DETAILS					
P100 PLUMBING FLOOR PLAN					
P101 PLUMBING FLOOR PLAN OVERHEAD					
P102 PLUMBING RISER DIAGRAMS					





	REVISIONS				
No.	Description	Date			
Joh	Number: 20	002-00			

Job Number:	2002-00
Date:	12/21/20
Dr awn By: Checked By: CAD File:	 TJR

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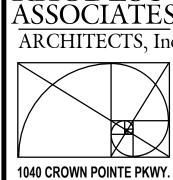
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TH. RIDGE CHURCH

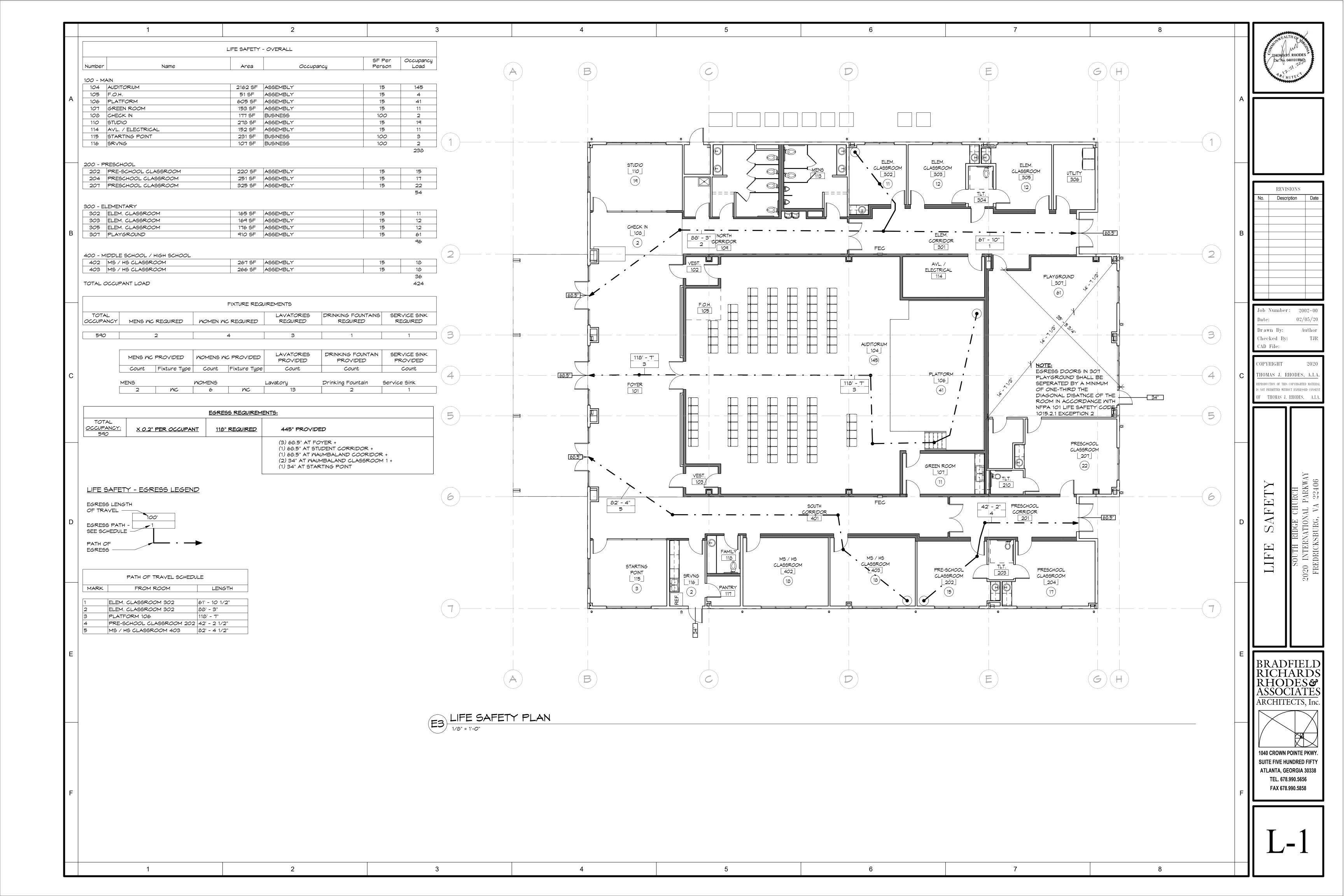
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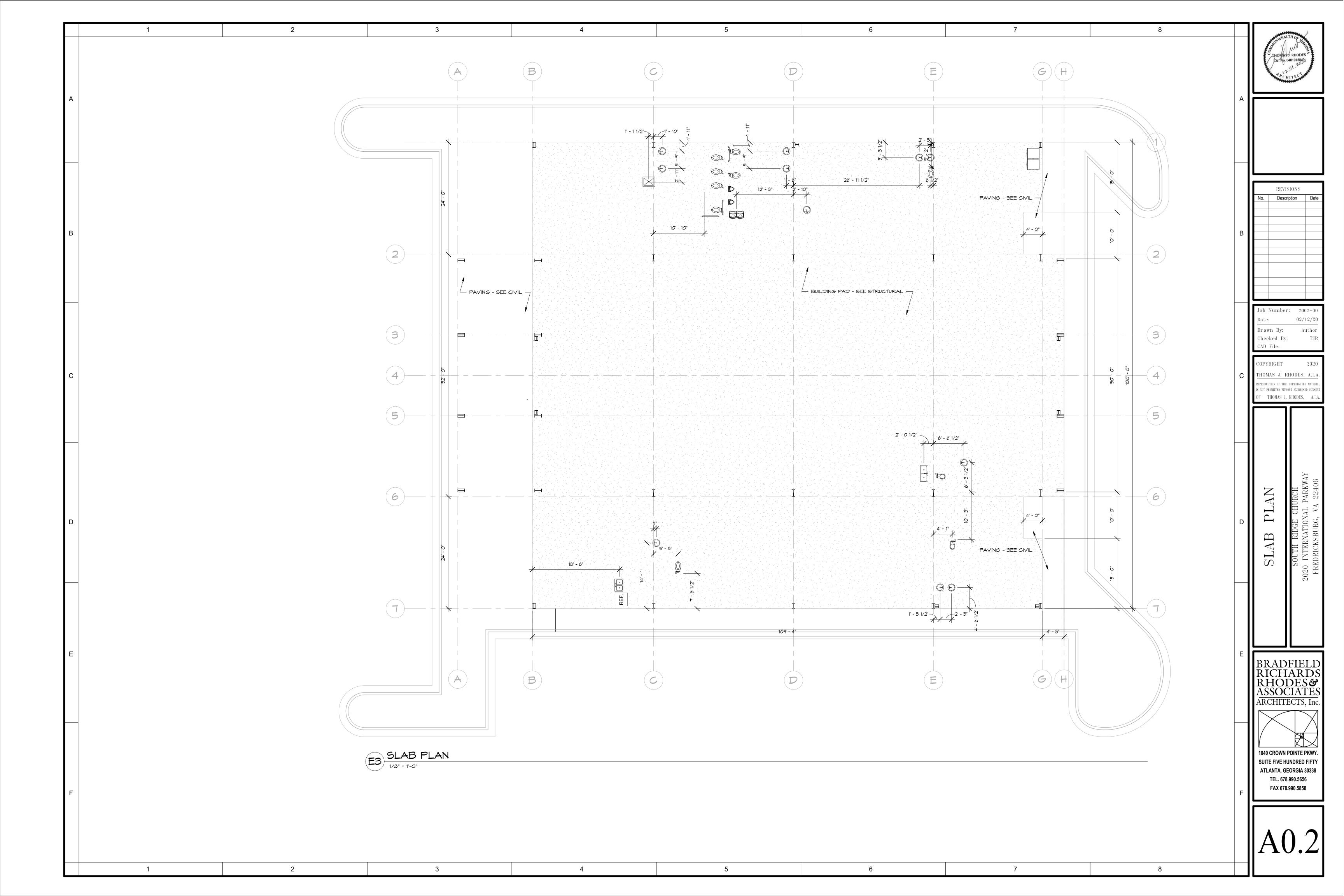
BRADFIELD RICHARDS RHODES & ASSOCIATES

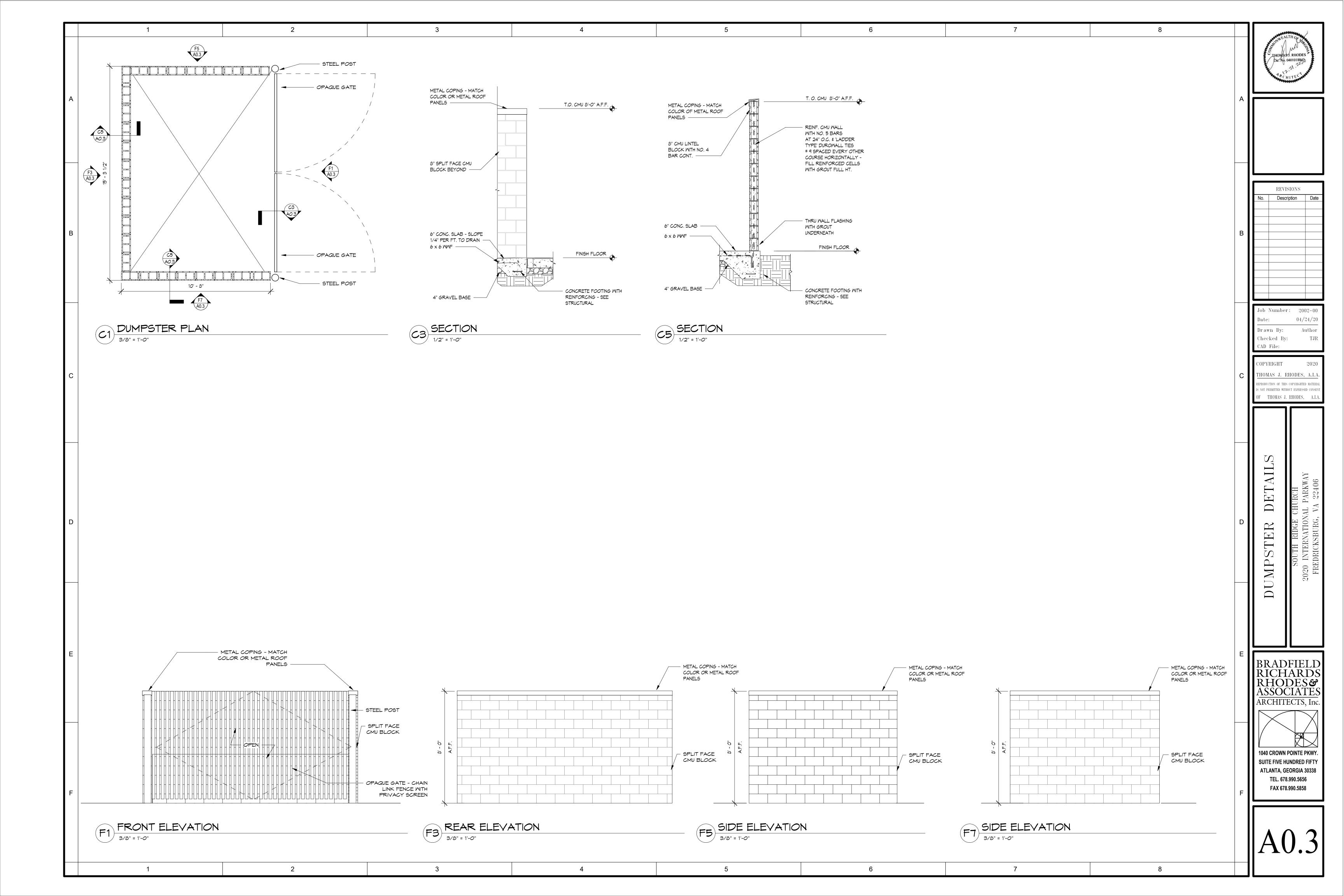


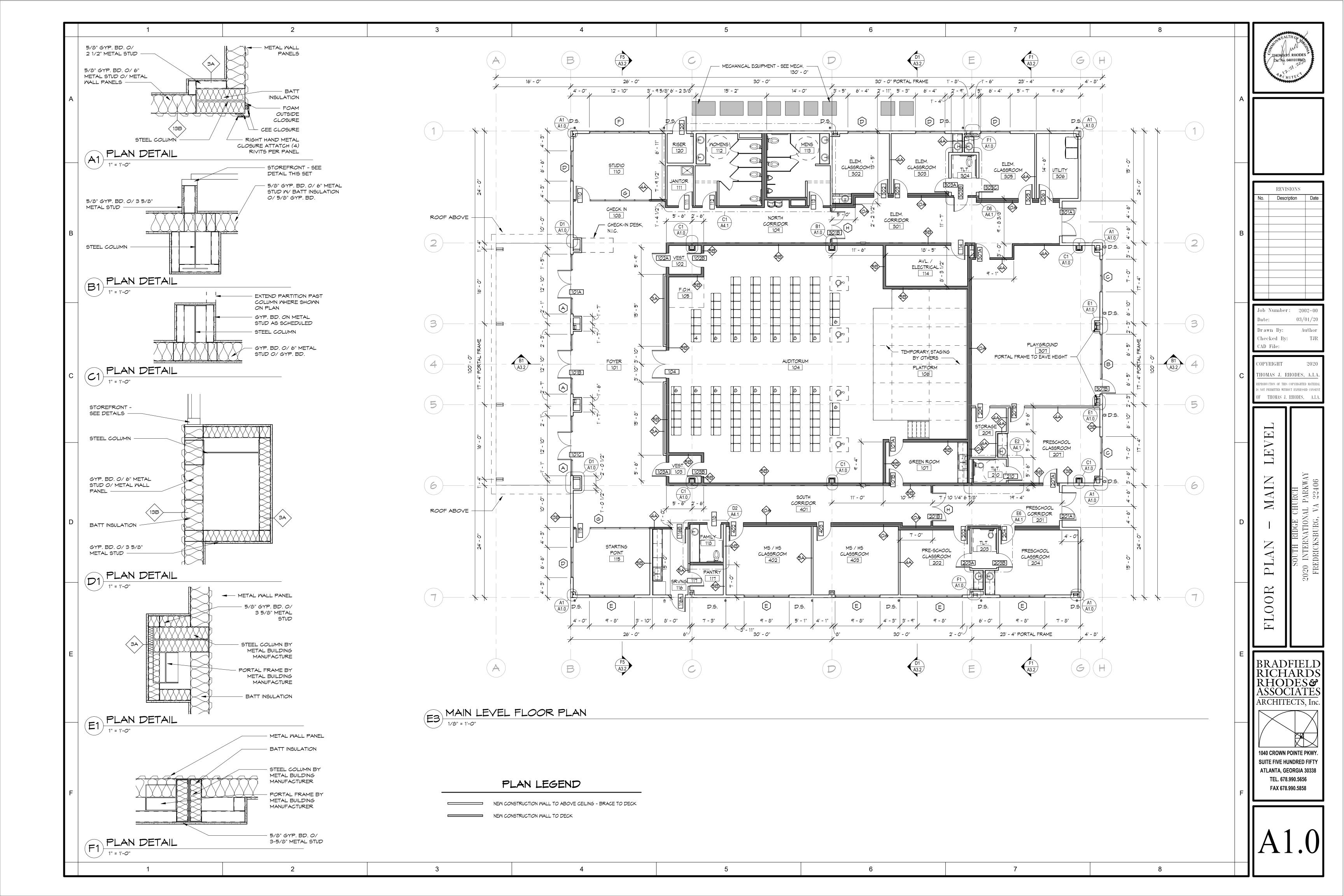
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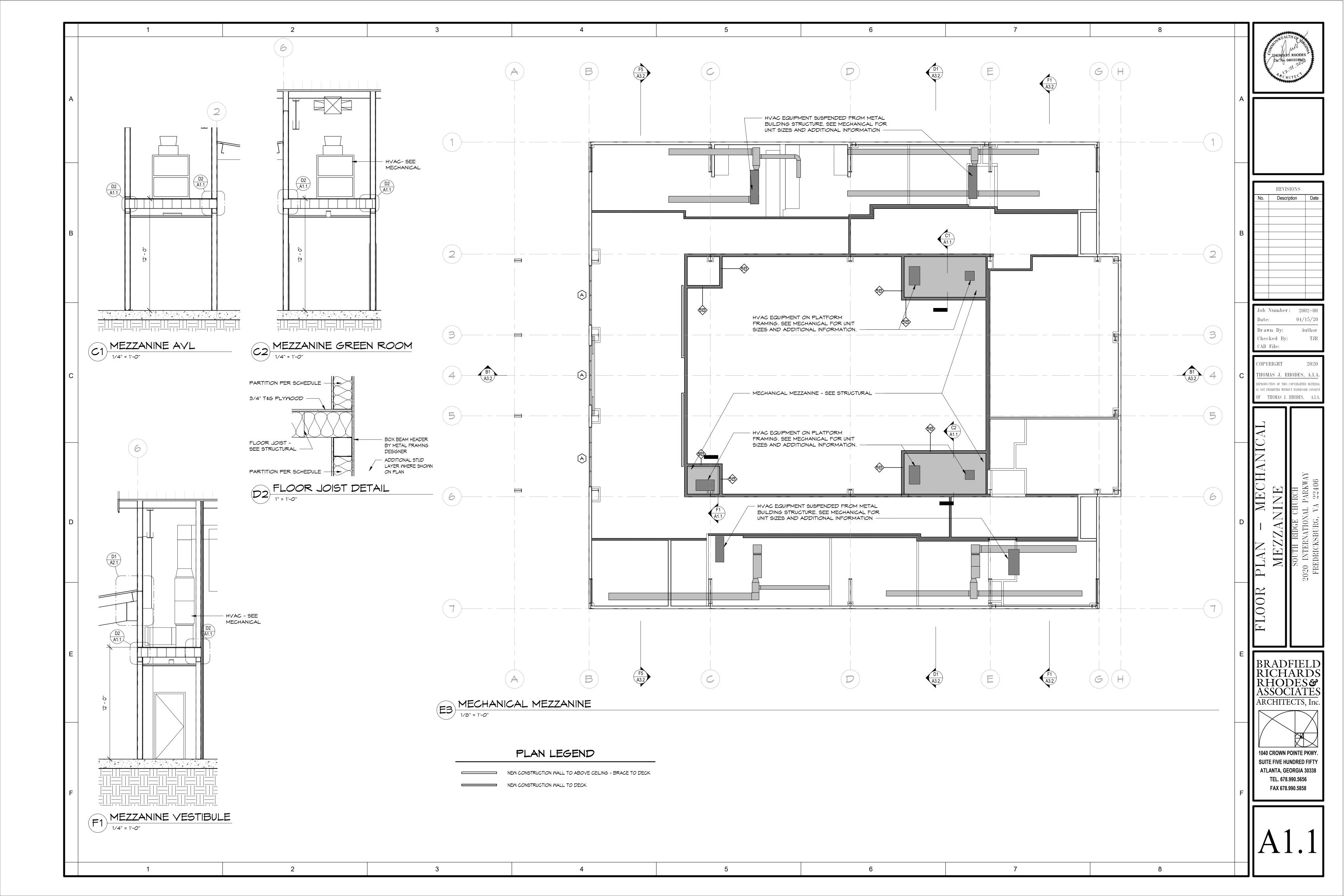
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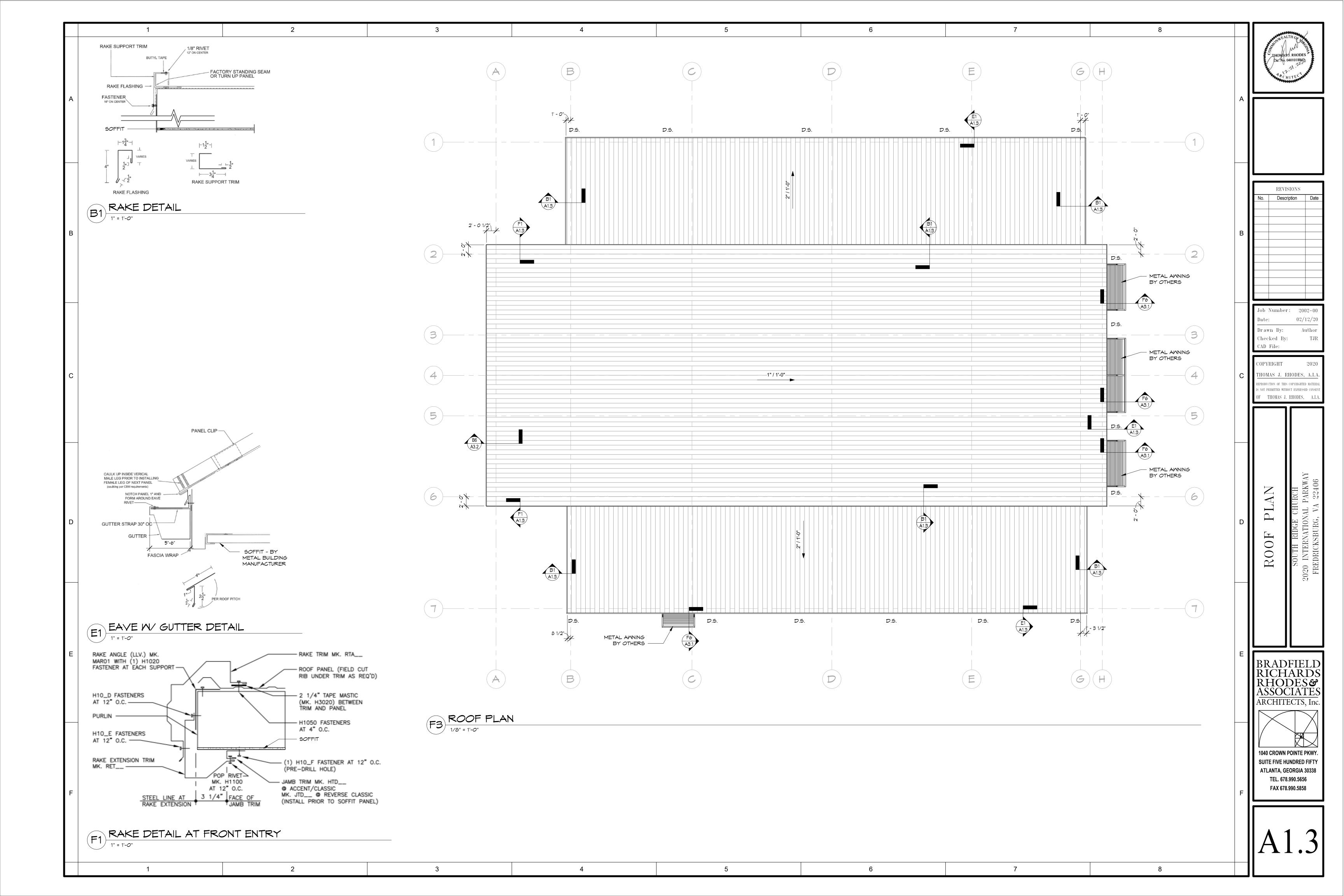


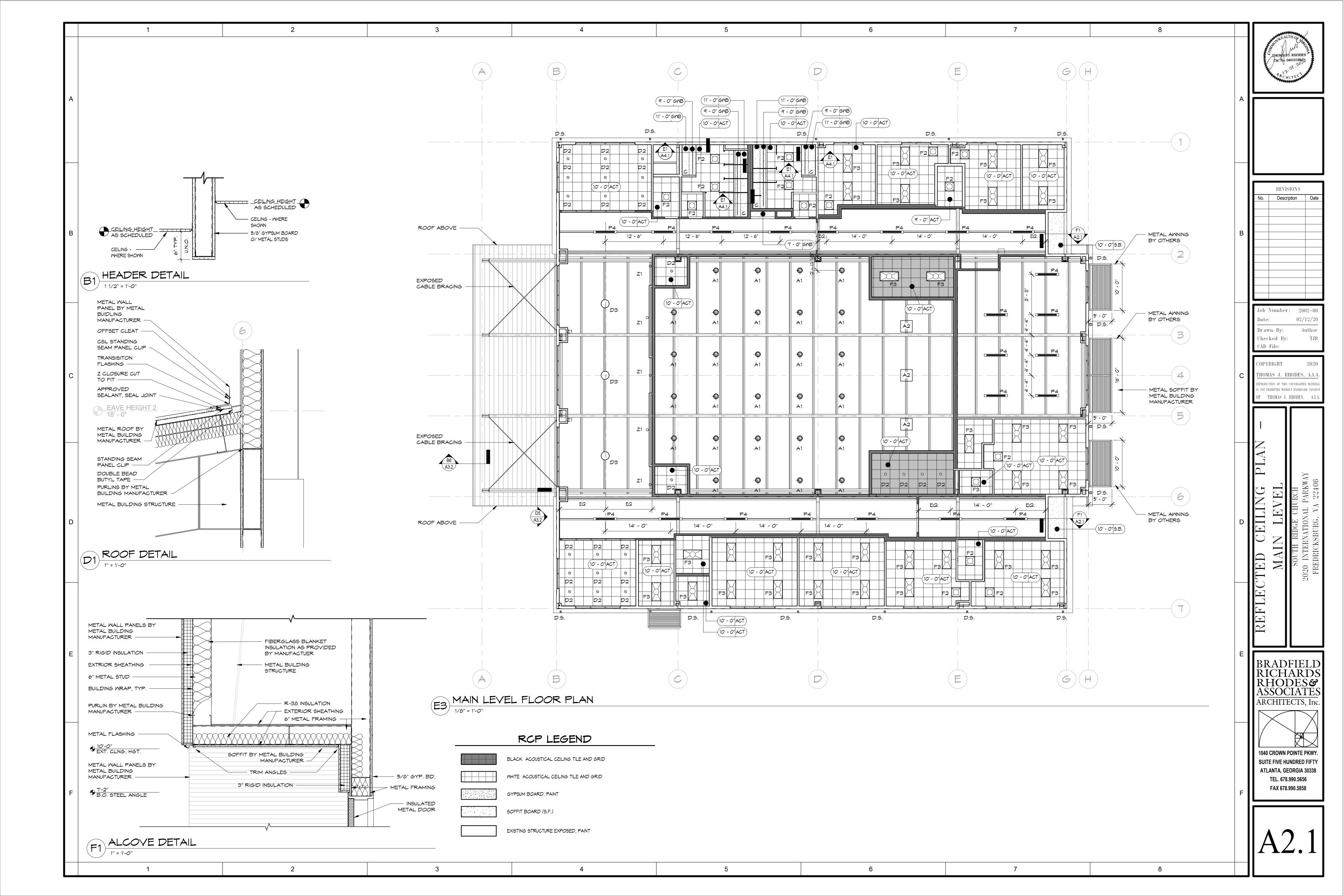


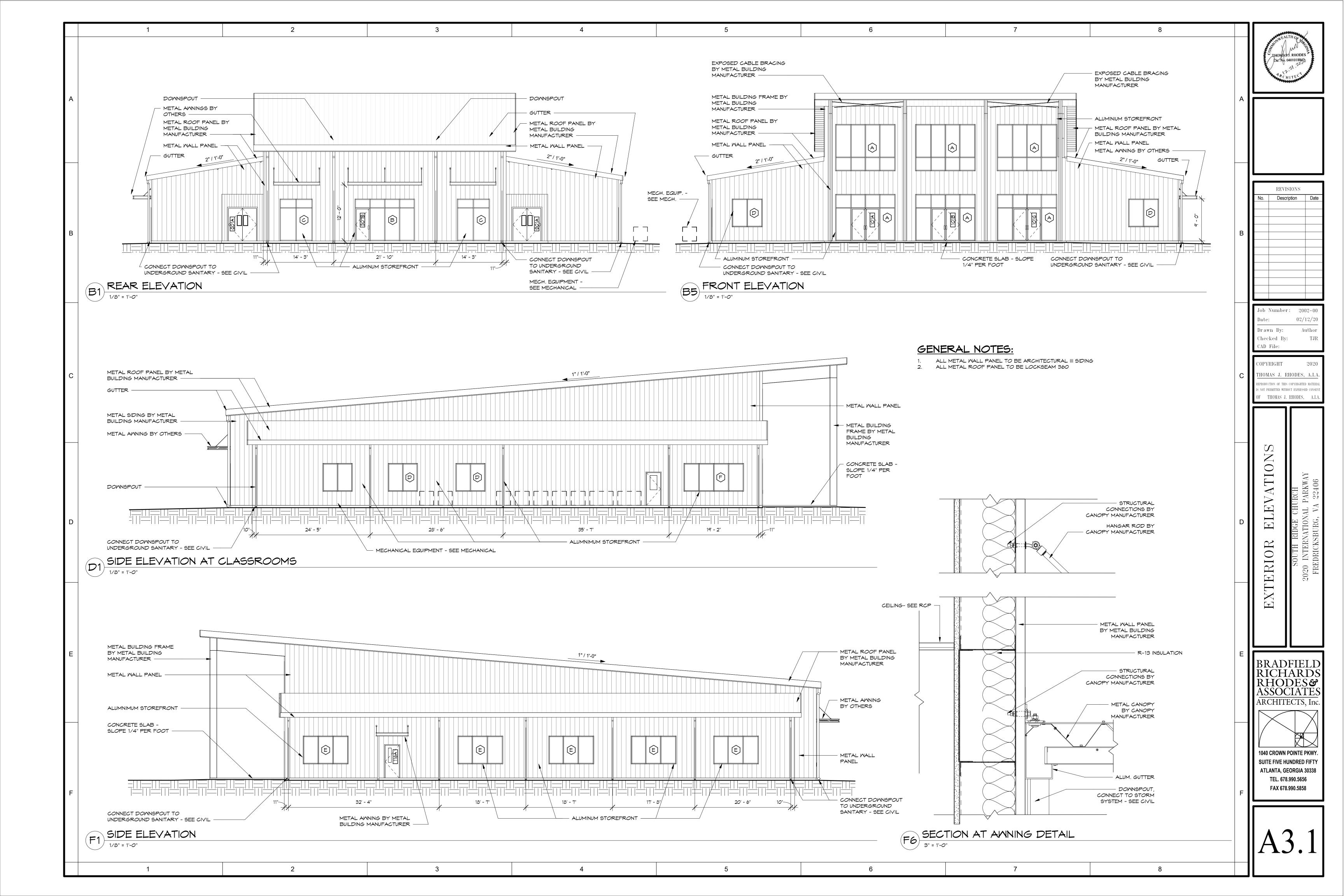


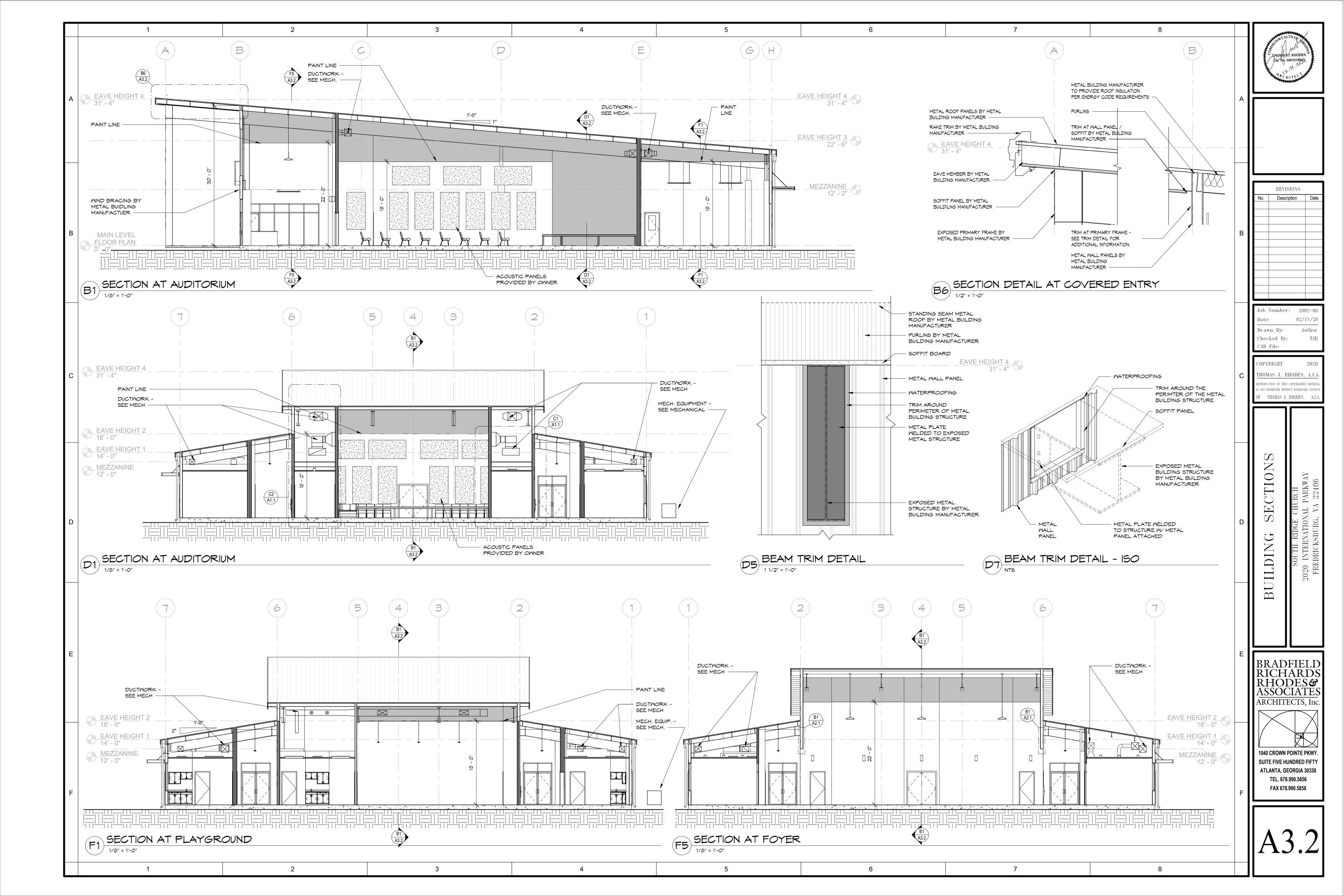


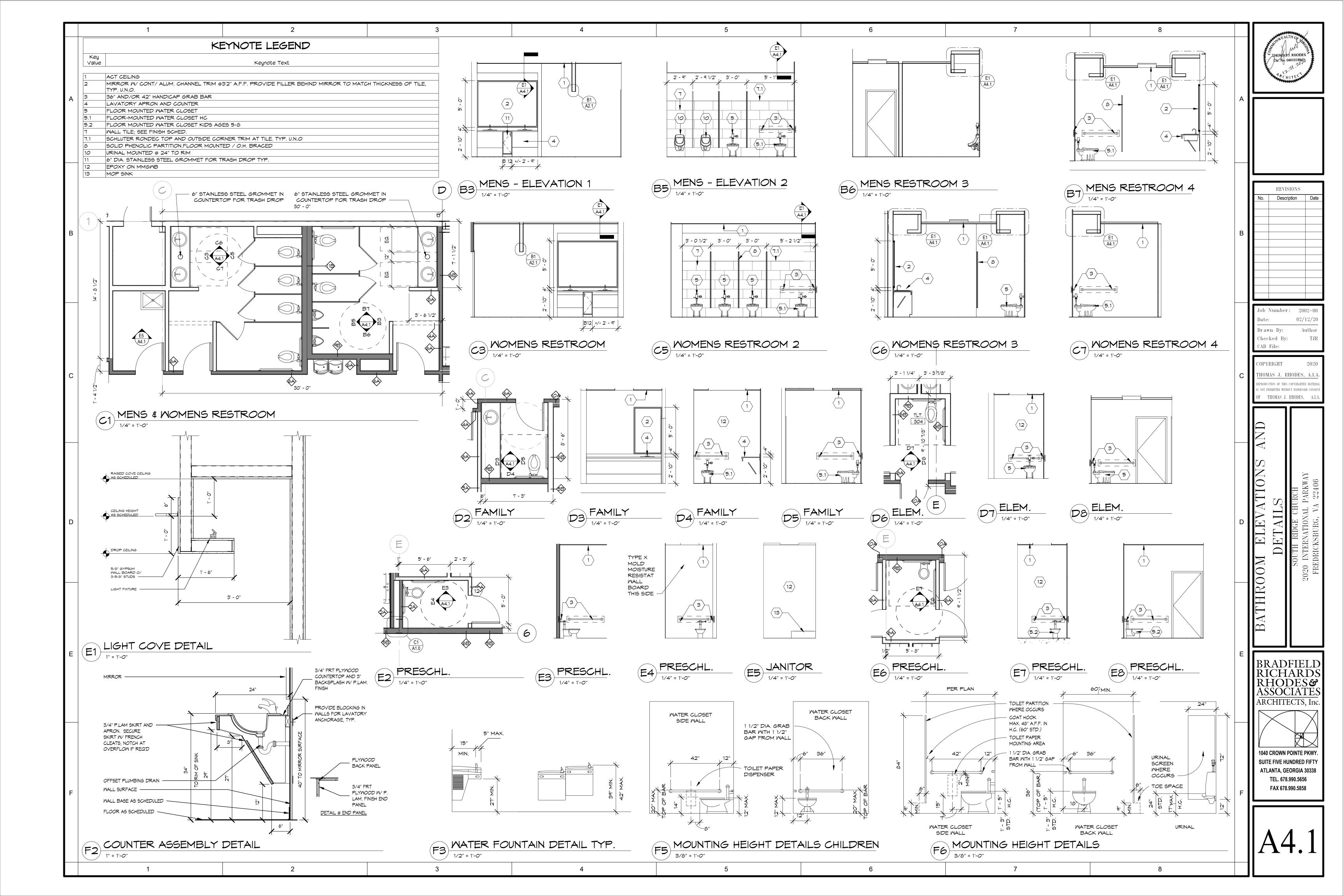


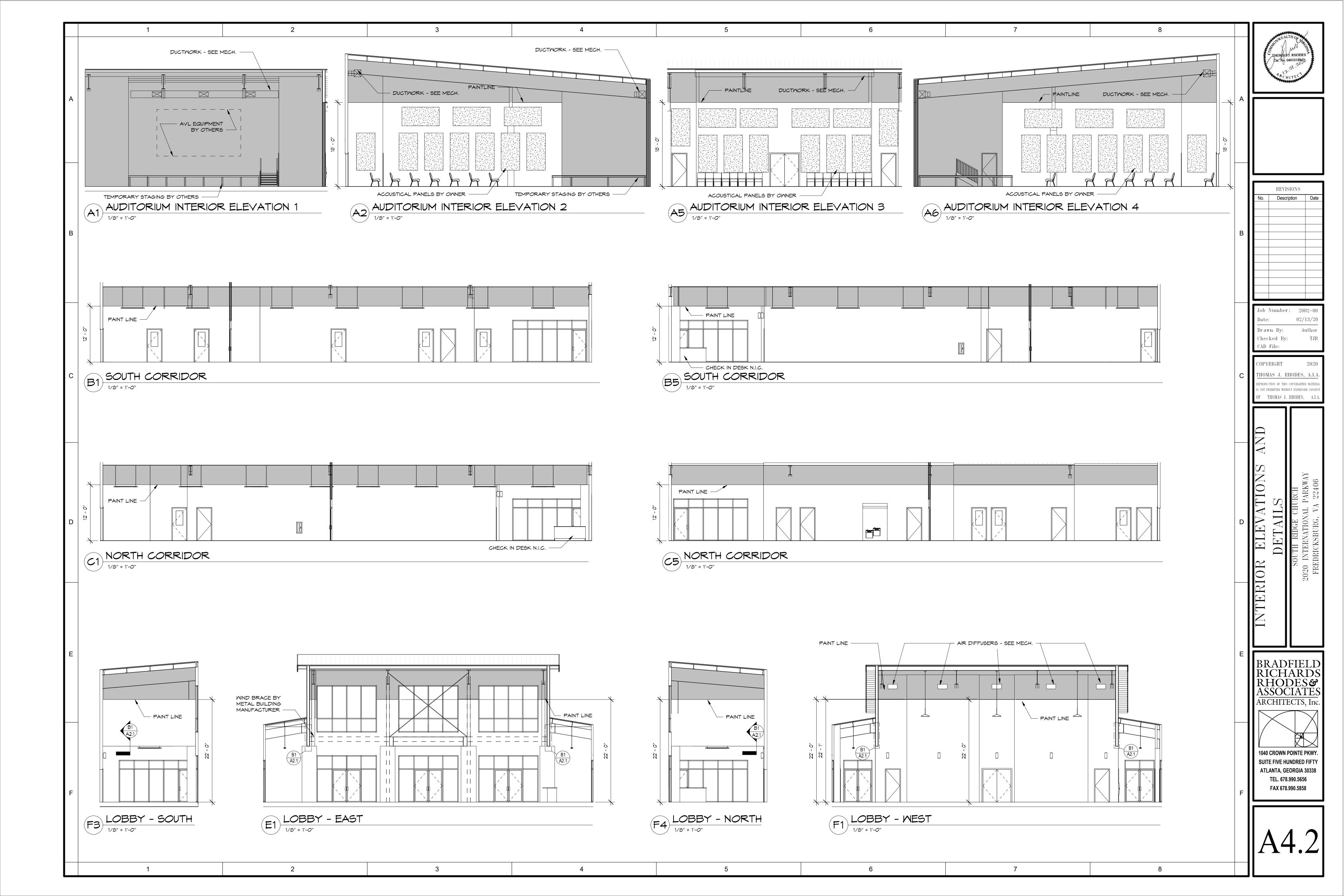


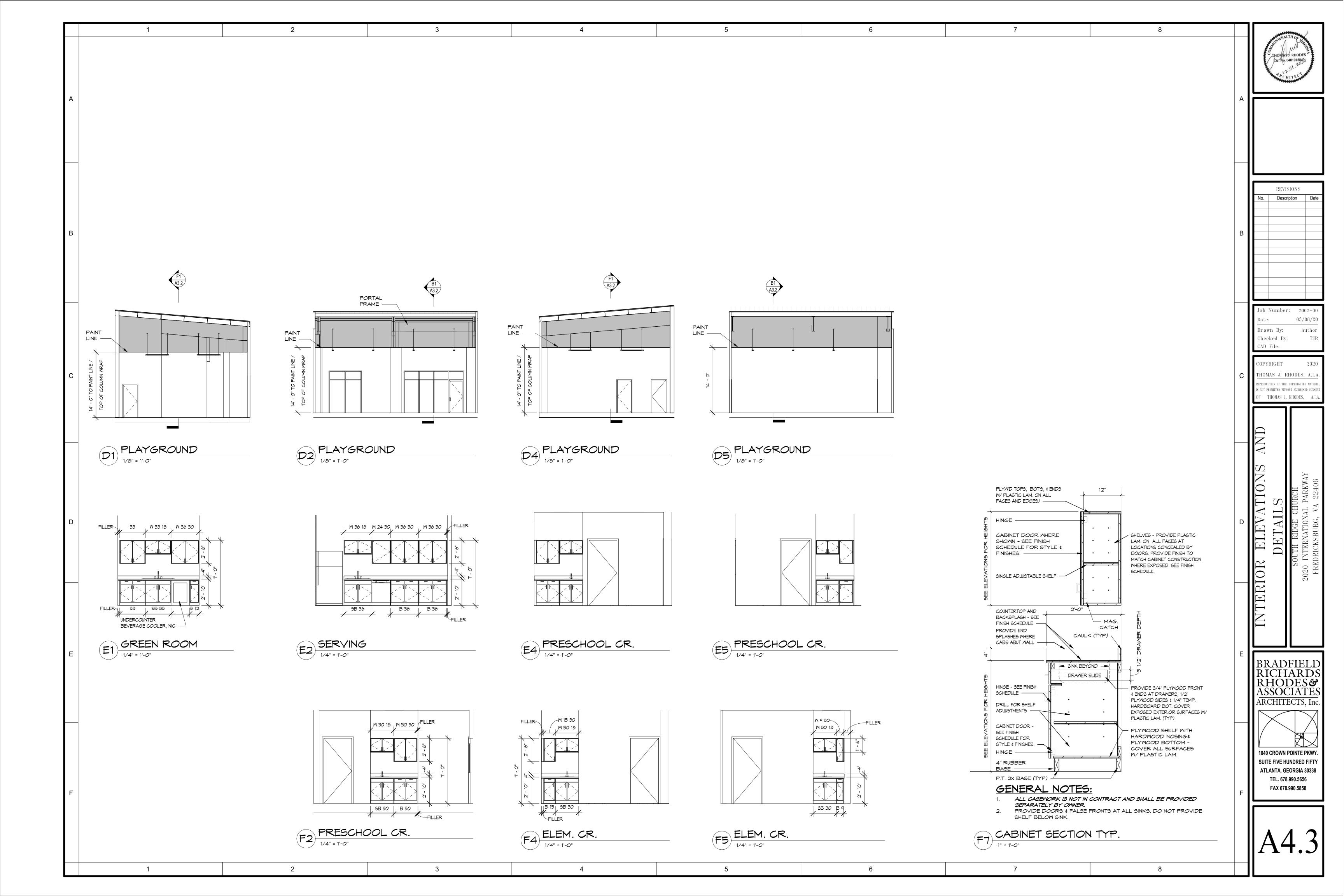


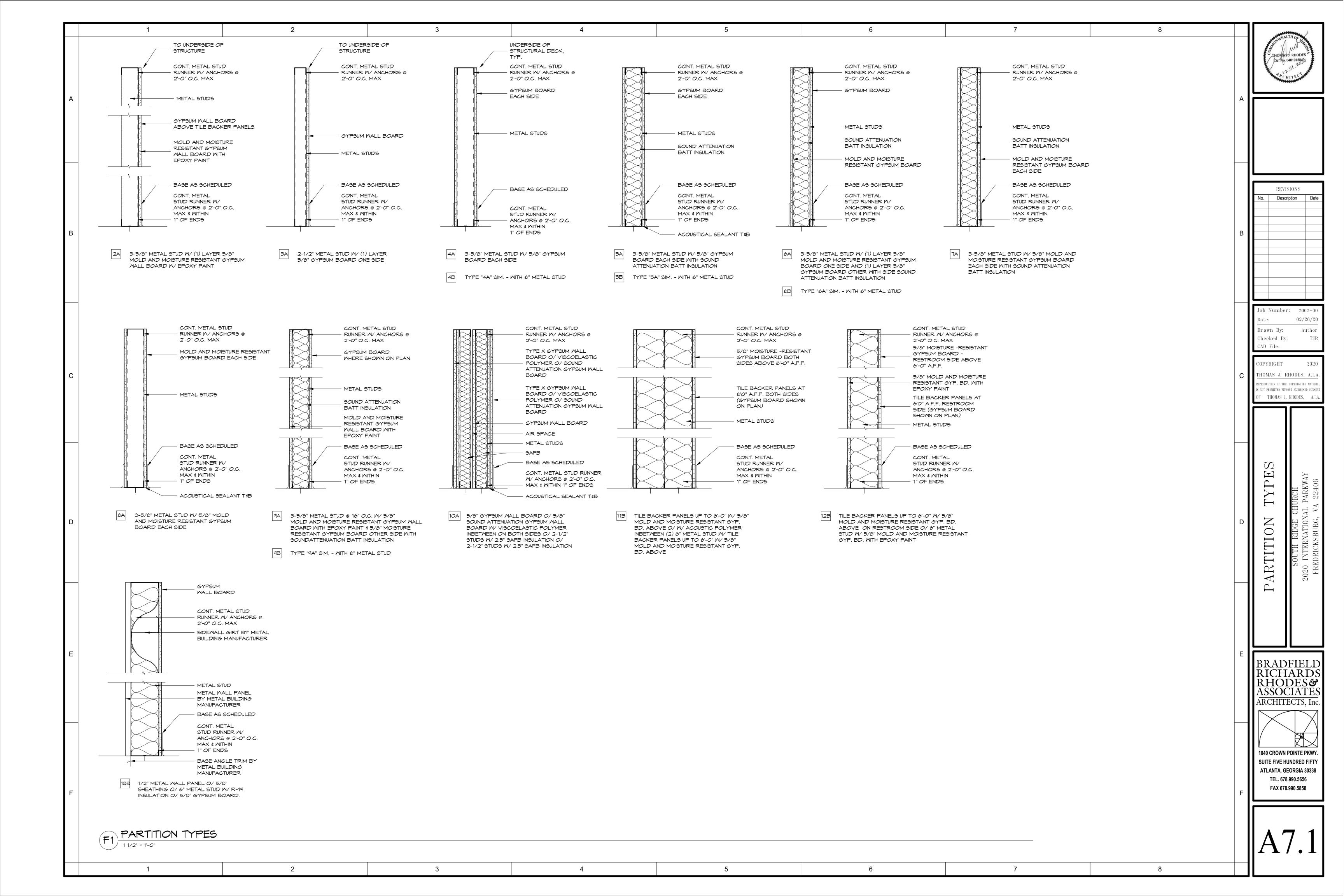


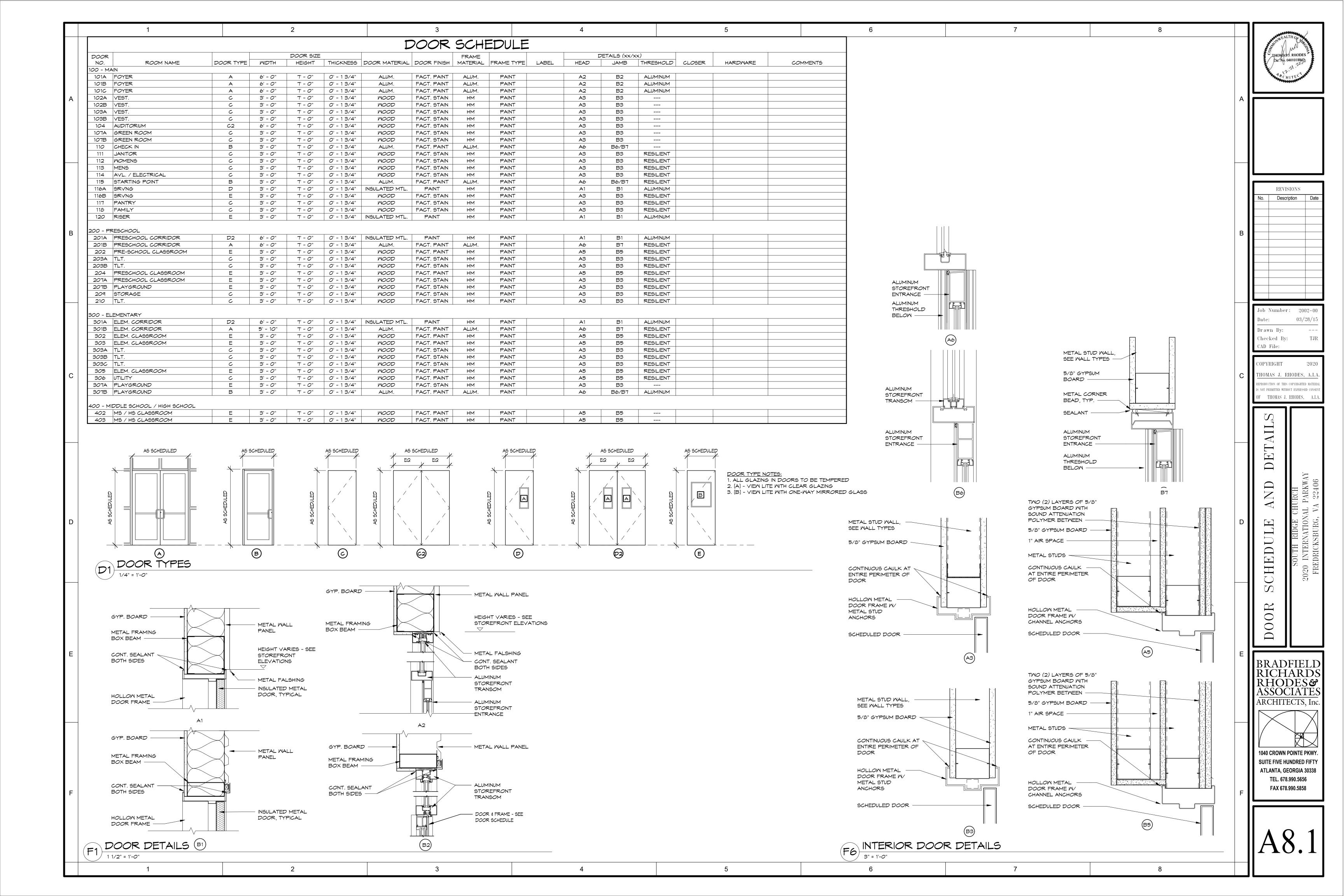


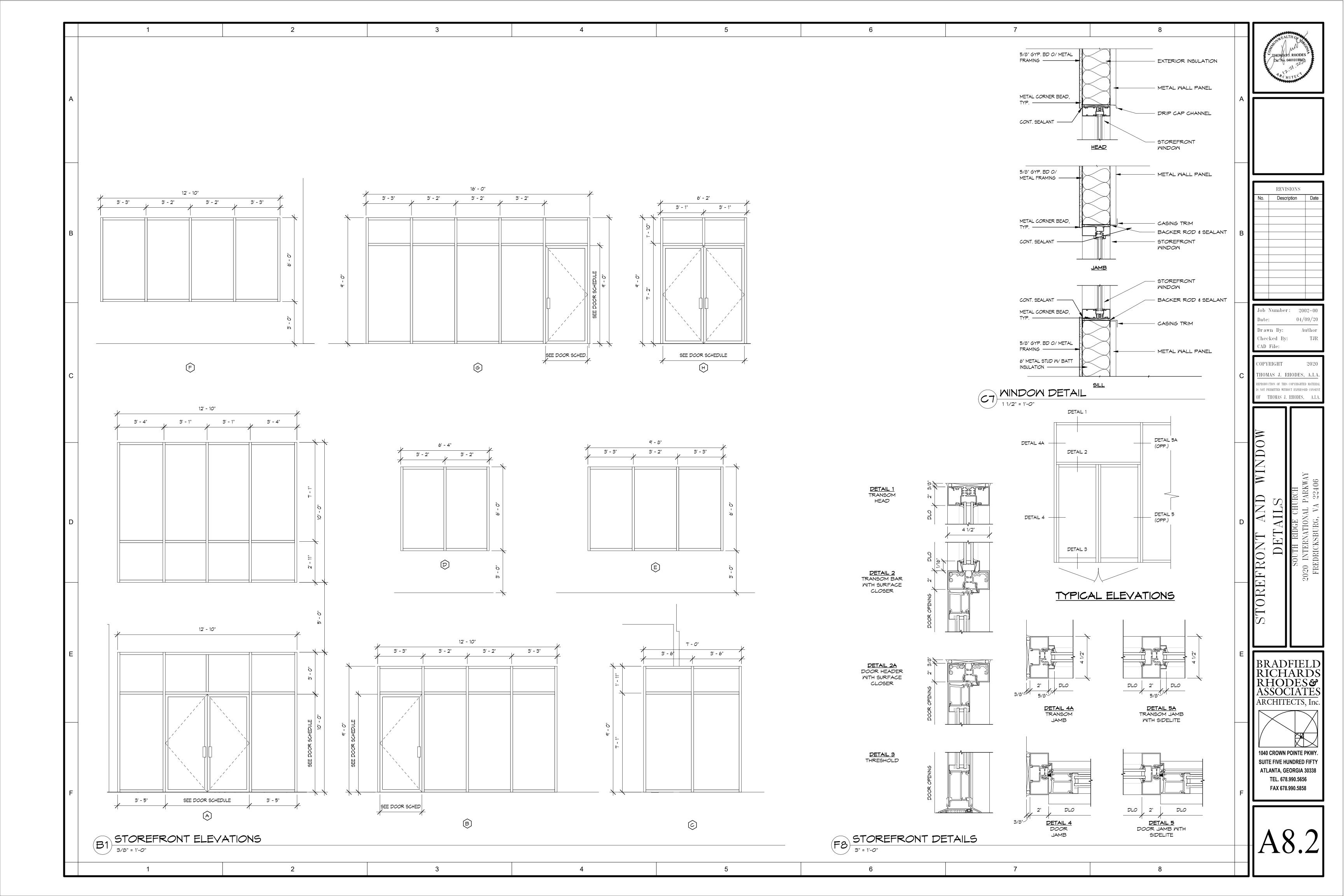


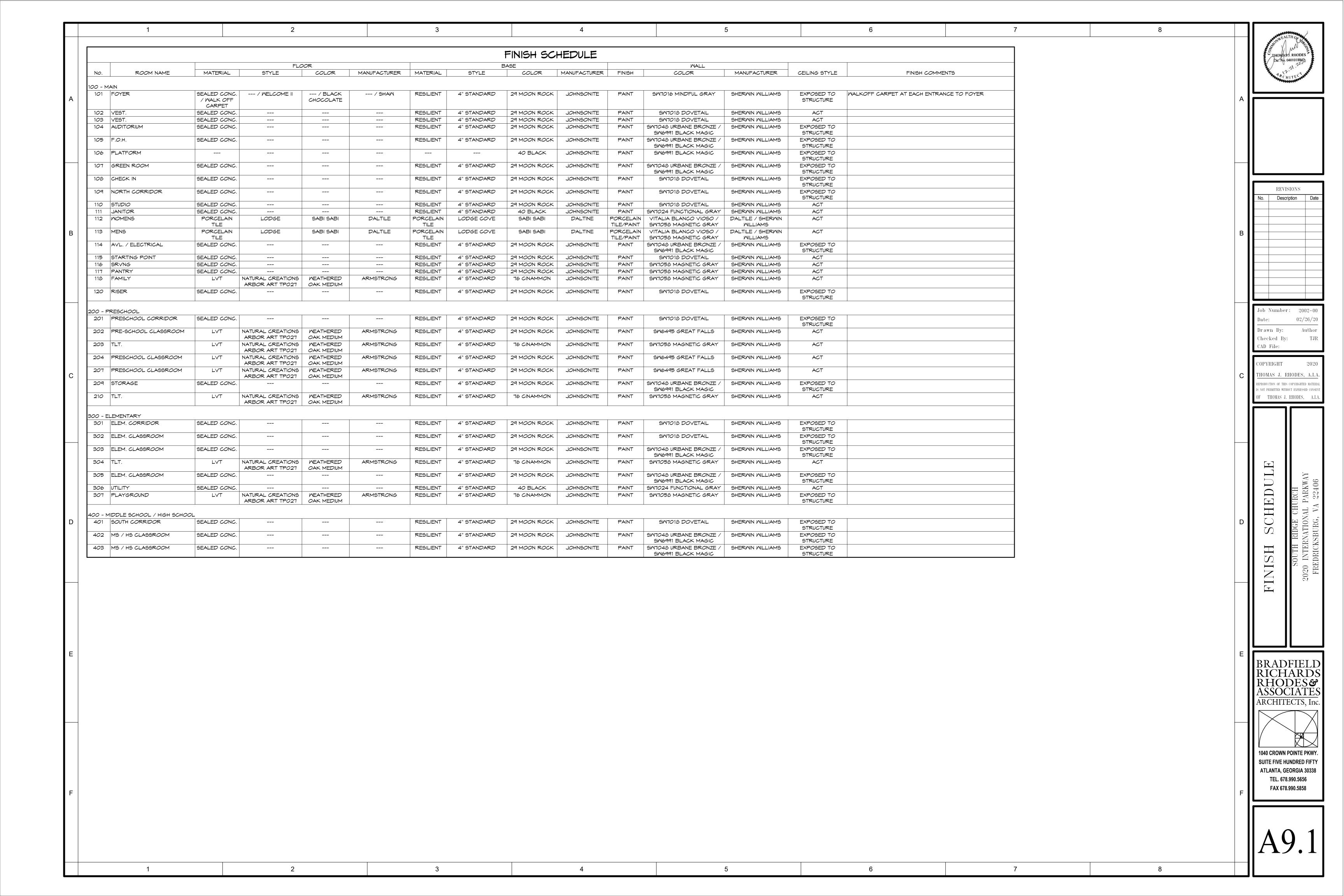




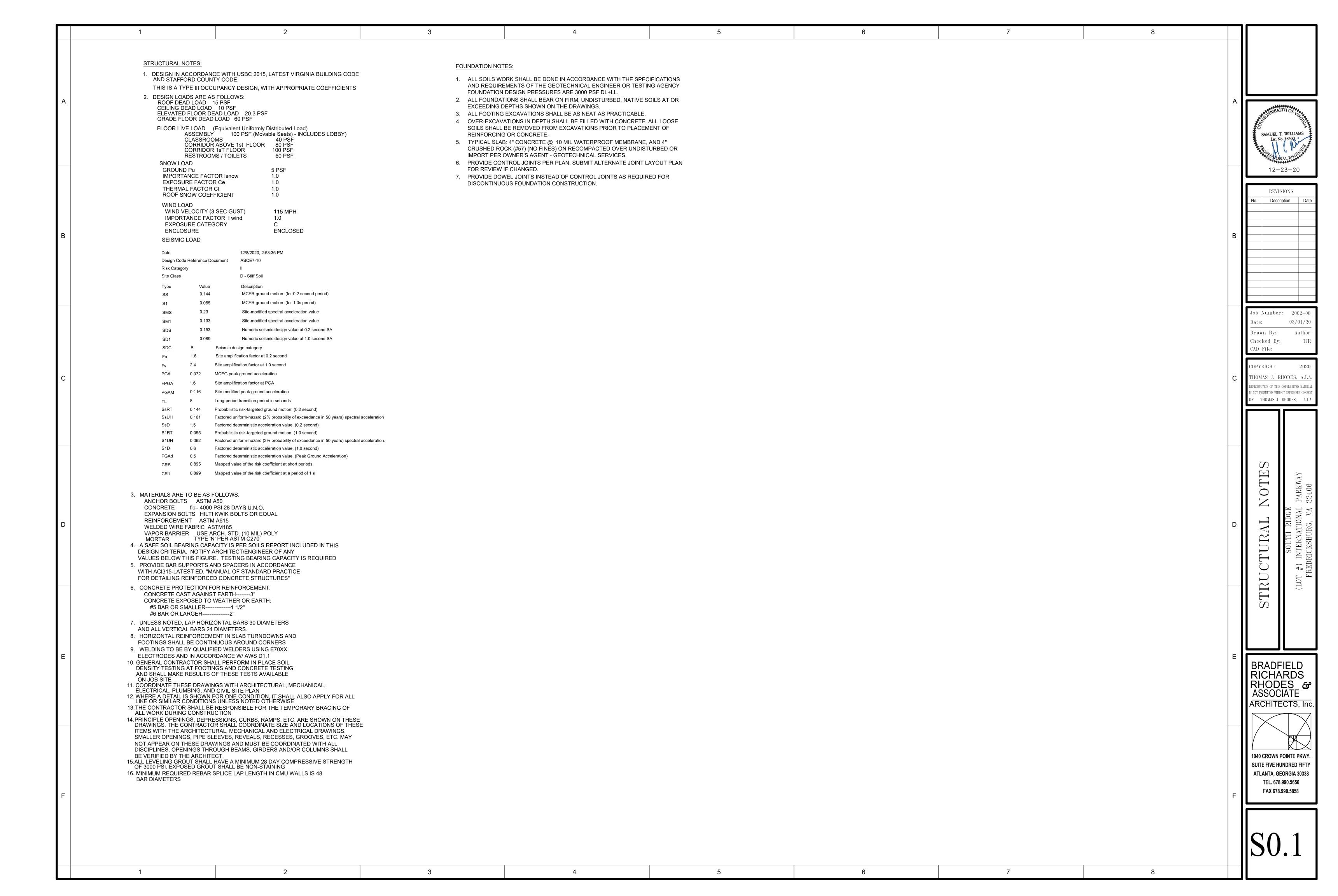


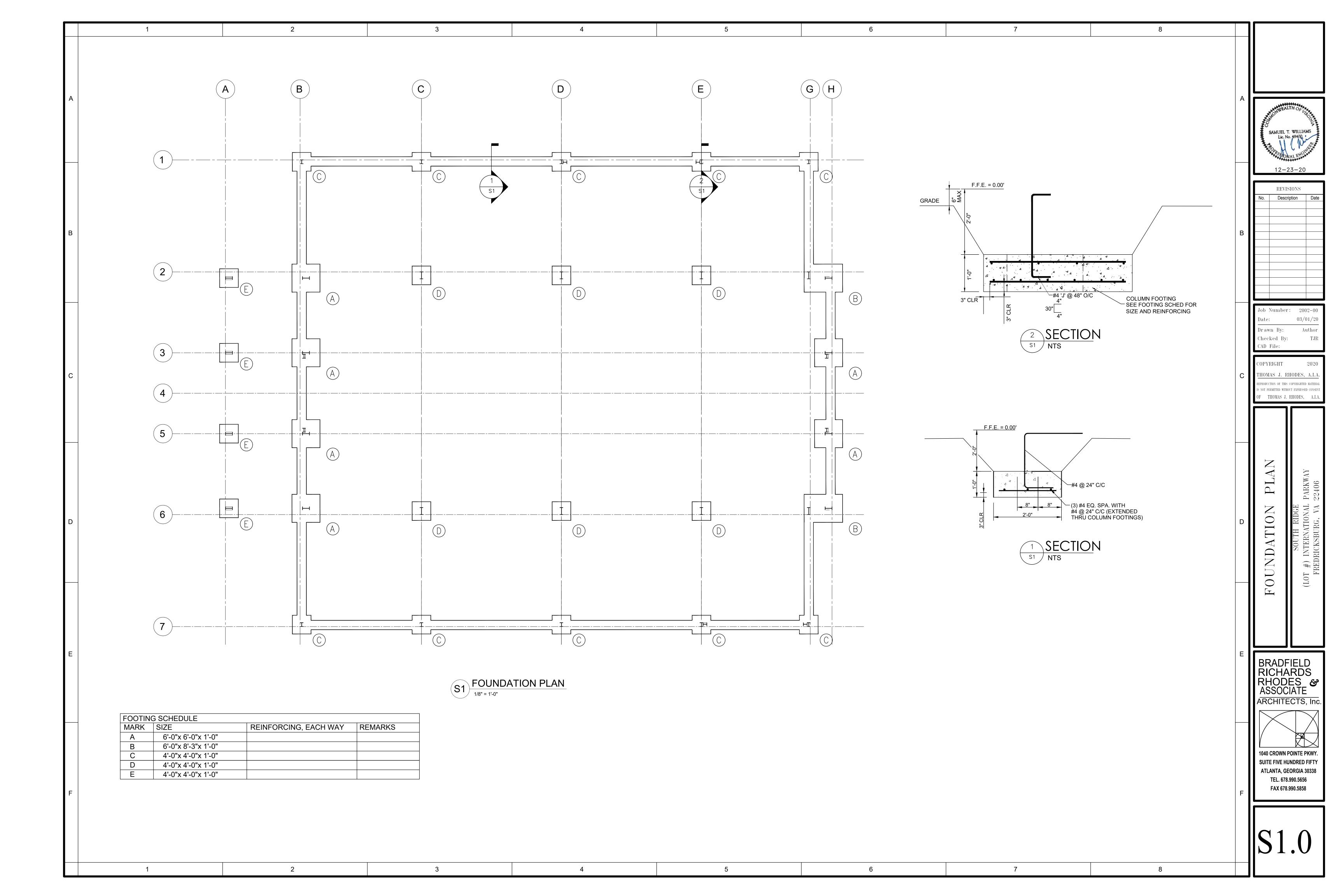


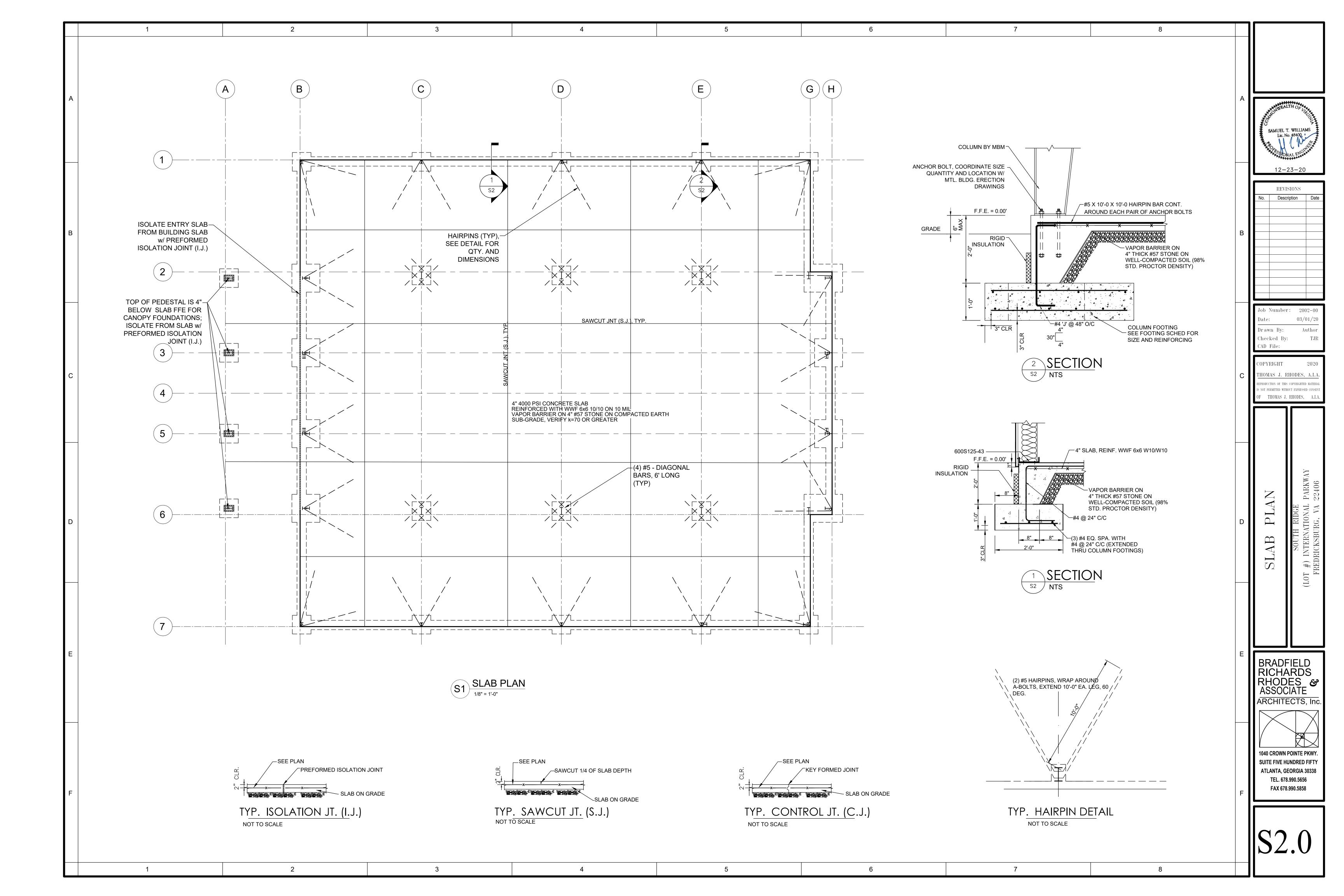


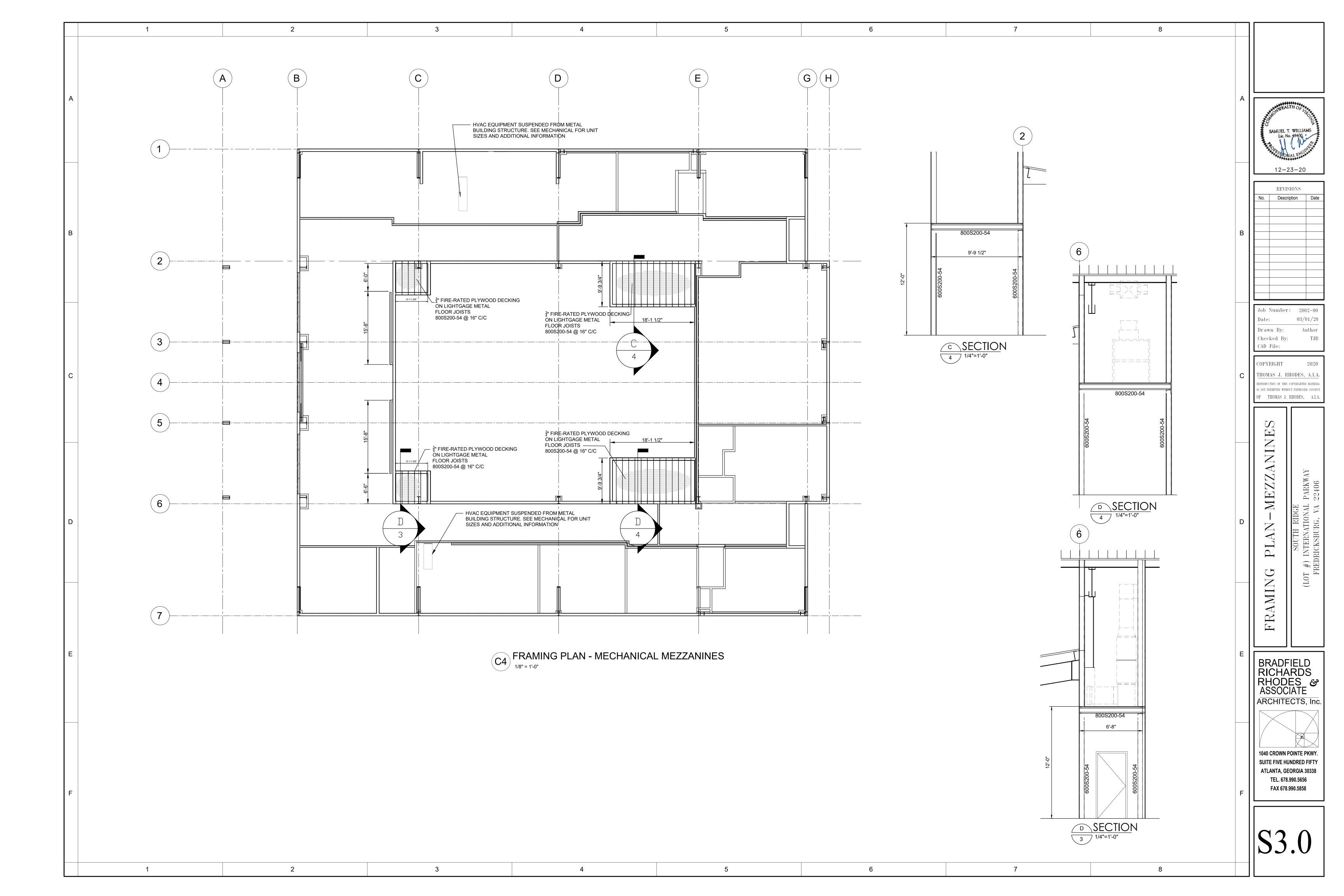


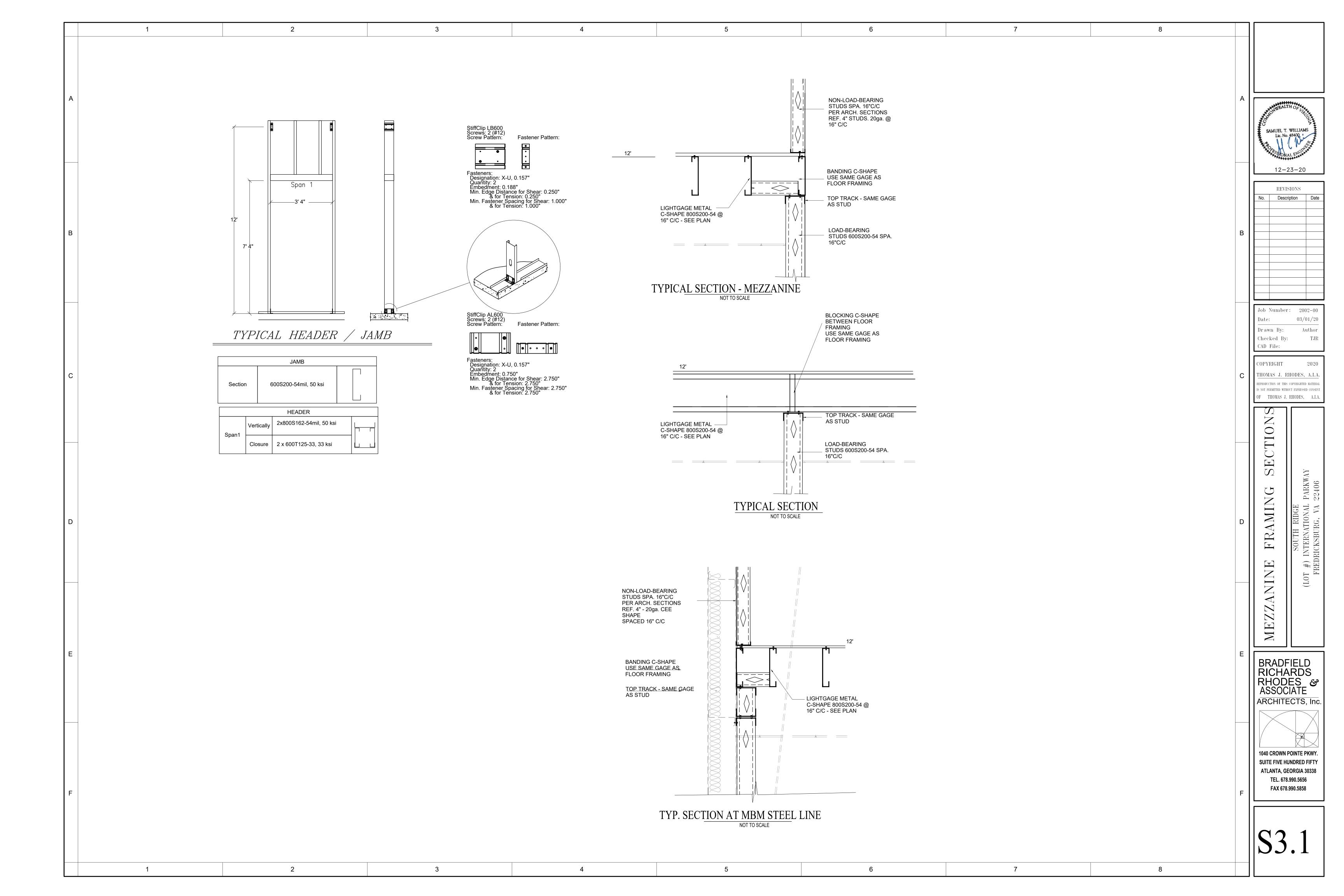


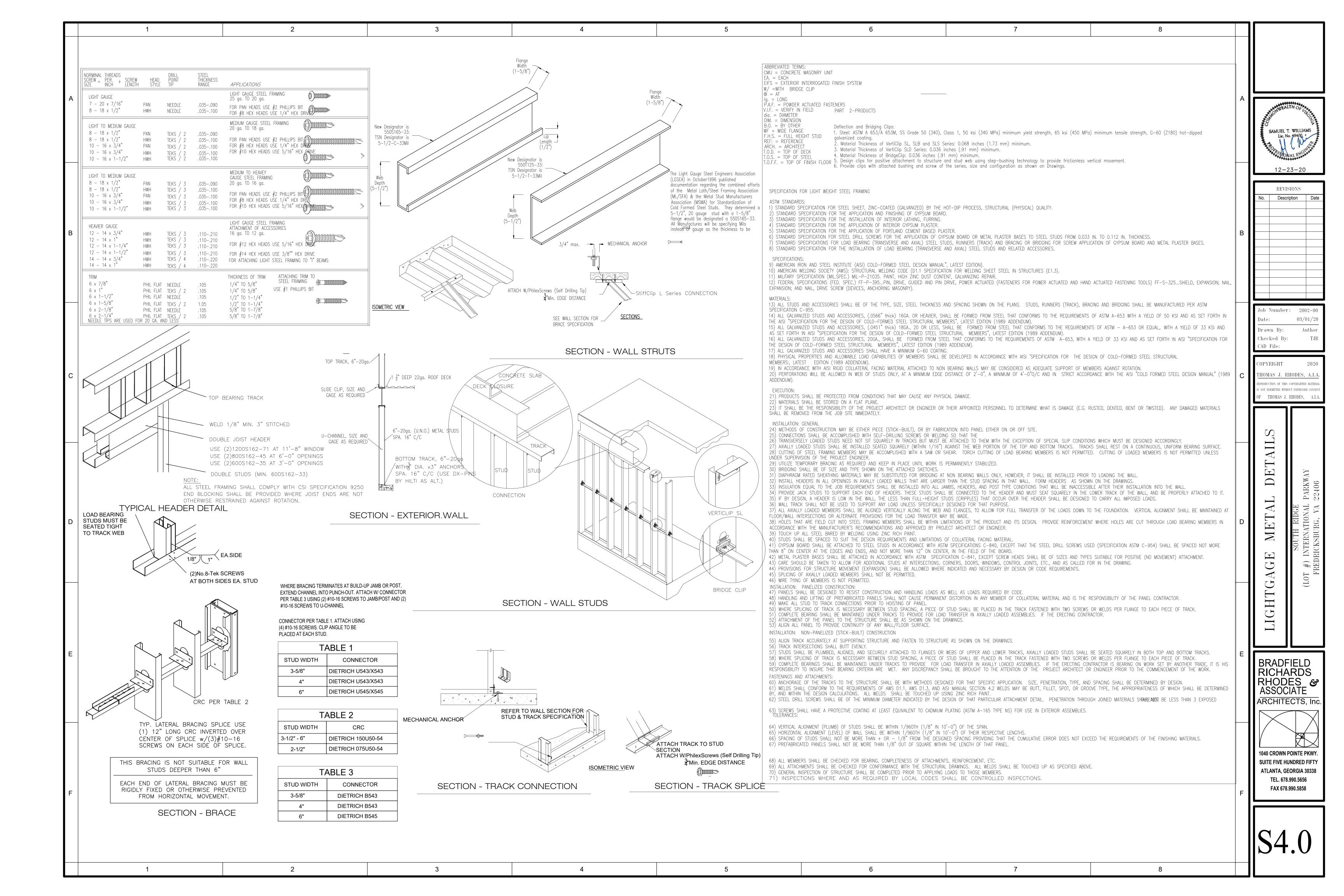


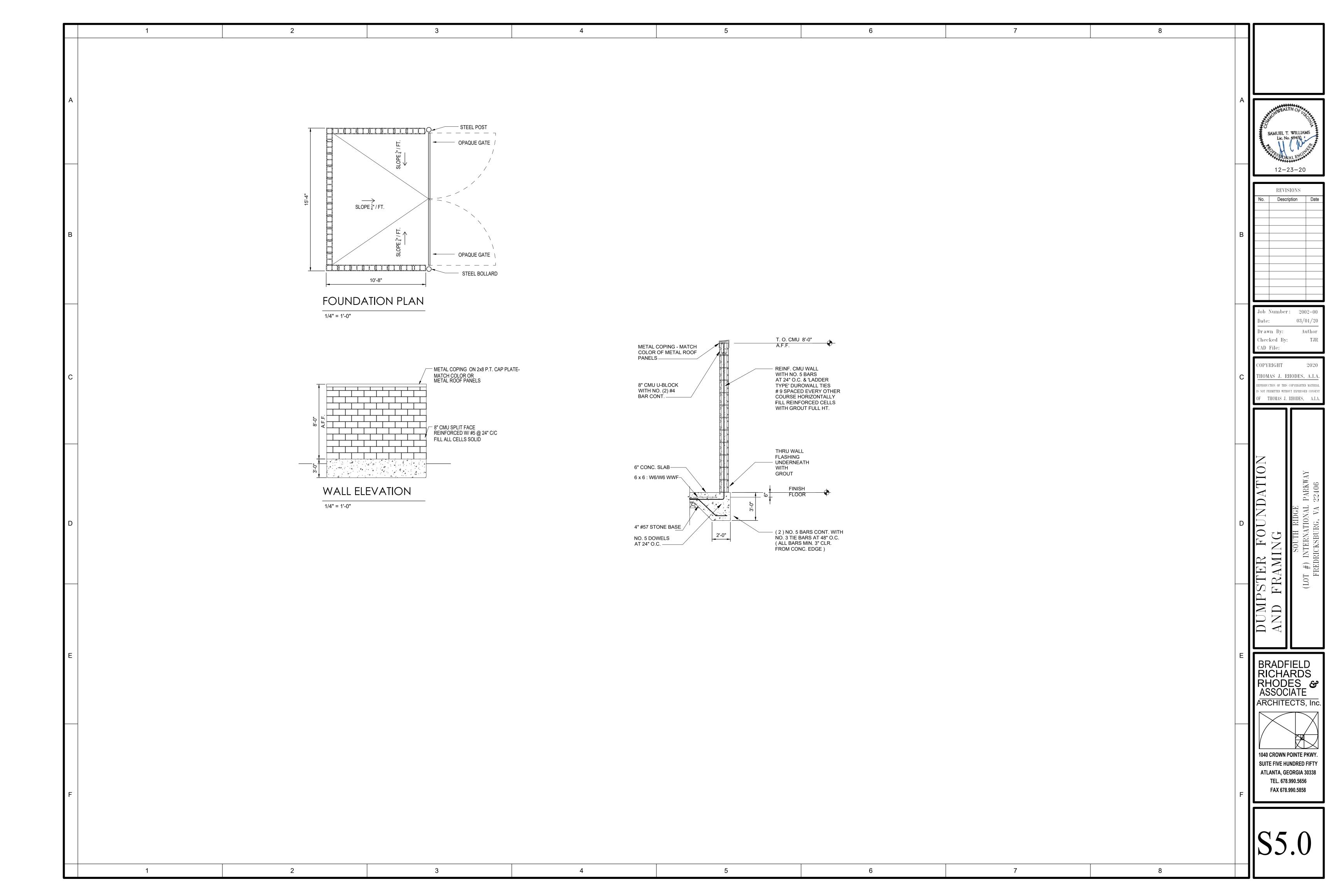


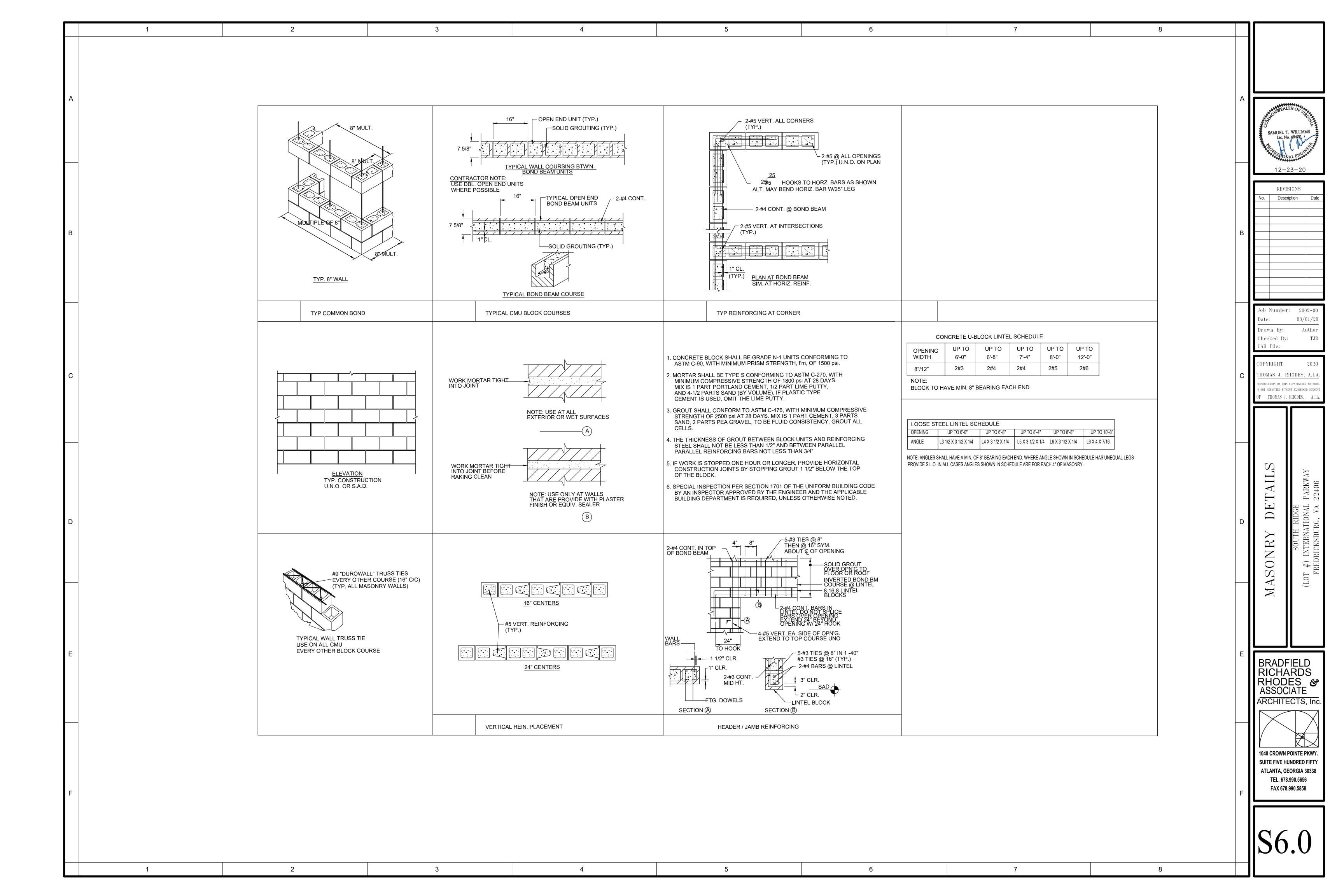












- 7. PIPING SHALL BE INSTALLED TO PASS INSPECTIONS BY LOCAL PLUMBING INSPECTION DEPARTMENT, STATE AND
- FEDERAL AUTHORITIES AND INSURANCE COMPANY HAVING JURISDICTION. ANY CHANGES OR ADDITIONS WHIGH. VIBRATION ISOLATION MAY BE NECESSARY TO OBTAIN SUCH INSPECTIONS AND APPROVAL SHALL BE MADE BY THE CONTRACTOR AS PART OF THIS CONTRACT AND WITHOUT ADDITIONAL COST TO THE OWNER. MOUNTING OR SUPPORTS.

 8. PIPING, DUCTWORK OR EQUIPMENT SHALL NOT BE INSTALLED IN ELECTRICAL EQUIPMENT ROOMS OR ELEVATOR

 MACHINE ROOMS EXCEPT AS SERVINORY VITYOGE ROOMS.
- POWER PANELS, MOTOR CONTROL CENTERS, DRY TYPE TRANSFORMERS OR ROOF TOP AIR CONDITIONING UNITSTRENGTH NEOPRENE.
- ABSORBERS, ETC. EQUIPMENT LOCATED ABOVE LAY-IN TYPE CEILINGS IS CONSIDERED ACCESSIBLE. 10.DAMAGED EQUIPMENT SHALL BE REPAIRED OR REPLACED AT THE OPTION OF THE ARCHITECT

F. <u>ELECTRICAL WOR</u>

- CHARACTERISTICS INDICATED ON THE ELECTRICAL DRAWINGS AND SPECIFIED IN DIVISION 16
- 2. EQUIPMENT UNIT MOTOR SPEED CONTROLS, STARTERS, SYSTEM CONTROLS, PILOT LIGHTS, PUSH-BUTTONS, ETC. SHALL BE FURNISHED COMPLETE AS A PART OF THE MOTOR APPARATUS WHICH IT OPERATES. ALL COMPONENTS SHALL BE IN CONFORMANCE WITH THE REQUIREMENTS OF THE NATIONAL ELECTRICAL CODE AND DIVISION 16IV. DUCTWORK AND FITTINGS ALL MOTOR STARTERS SHALL BE PROVIDED WITH AN H-O-A SWITCH AND CONTROL TRANSFORMER. ALL STARTERS

 AND DISCONNIECT SWITCHES SHALL BE ELIPHISHED LINDER DIVISION 15. COORDINATE INSTALLATION WITH A. MATERIAL AND TYPE AND DISCONNECT SWITCHES SHALL BE FURNISHED UNDER DIVISION 15. COORDINATE INSTALLATION WITH ELECTRICAL CONTRACTOR PRIOR TO HIS WIRING OF EQUIPMENT.
- 3. CONTROL WIRING (120V AND LESS) SHALL BE PROVIDED UNDER DIVISION 15 AND EXTENDED FROM THE STARTERS, CONTROL TRANSFORMERS OR 120V POWER CIRCUITS INDICATED ON THE ELECTRICAL DRAWINGS. ALL WIRING FOR 120 VOLTS SHALL BE DONE BY A LICENSED ELECTRICIAN.
- 4. ALL ELECTRICAL CHARACTERISTICS SHALL BE TAKEN FROM THE ELECTRICAL DRAWINGS AND SPECIFICATIONS AND COORDINATED BEFORE EQUIPMENT IS ORDERED OR PURCHASED.

G. CUTTING AND PATCHING

- 1. THE CONTRACTOR SHALL ASSUME ALL COST OF, AND BE RESPONSIBLE FOR, ARRANGING FOR ALL CUTTING AND PATCHING REQUIRED TO COMPLETE THE INSTALLATION OF HIS PORTION OF THE WORK. ALL CUTTING SHALL BE CAREFULLY AND NEATLY DONE SO AS NOT TO DAMAGE OR CUT AWAY MORE THAN IS NECESSARY OF ANY EXISTING PORTIONS OF THE STRUCTURE.
- 2. ALL SURFACES SHALL BE PATCHED TO THE CONDITION OF THE ADJACENT SURFACES. 3. THE CONTRACTOR SHALL MAKE SUITABLE PROVISIONS FOR ADEQUATELY WATERPROOFING AT HIS FLOOR
- PENETRATIONS OF WATER PROOF MEMBRANE FLOORS. THIS SHALL INCLUDE BUT NOT BE LIMITED TO FLOOR DRAINS, OPEN SIGHT DRAINS, HUB DRAINS, CLEANOUTS, AND SLEEVES FOR THE VARIOUS PIPING. THIS ALSO APPLIES TO MEMBRANE ROOFING SYSTEMS
- 4. ALL PENETRATIONS AND WATER PROOFING OF PENETRATIONS IN MEMBRANE ROOFING SYSTEMS SHALL BE COORDINATED WITH AND PERFORMED BY THE MANUFACTURER/INSTALLER.
- 5. THE CONTRACTOR SHALL INSTALL, AS REQUIRED, IN CONCRETE, CARPENTRY OR MASONRY CONSTRUCTION, ALL NECESSARY HANGERS, SLEEVES, EXPANSION BOLTS, INSERTS AND OTHER FIXTURES AND APPURTENANCES NECESSARY FOR THE SUPPORT OF PIPE, DUCT, EQUIPMENT AND DEVICES FURNISHED UNDER EACH SECTION OF
- 6. FOR WALLS BETWEEN INTERIOR AND BELOW GRADE AREA. THE LINK-SEAL SYSTEM AS MANUFACTURED BY THUNDERLINE CORPORATION SHALL BE USED TO SEAL PIPE TO WALL PENETRATIONS. INSTALL SYSTEM IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
- 7. ESCUTCHEONS SHALL BE INSTALLED ON ALL PIPES WHERE THEY PASS THROUGH FLOORS, CEILINGS, WALLS OR PARTITIONS IN FINISHED AREAS WHERE EXPOSED TO VIEW.

- A. ALL MOTORIZED AIR MOVING AND FLUID MOVING EQUIPMENT PIECE SHALL BE PROVIDED WITH VIBRATION ISOLATION MACHINE ROOMS EXCEPT AS SERVINGINLY THOSE ROOMS. OUTSIDE OF ELECTRICAL EQUIPMENT ROOMS, DO B. PAD-TYPE ISOLATORS SHALL BE NEOPRENE IN-SHEAR ISOLATION PADS WITH CROSSED DOUBLE RIBS. A STEEL SHIM PLOATING OF THE PROOF OF THE PRO
- NOT RUN PIPING OR DUCTWORK OR LOCATE EQUIPMENT, WITH RESPECT TO SWITCHBOARDS, PANEL BOARDS, SHALL BE PROVIDED BETWEEN THE TWO LAYERS. PADS SHALL BE MOLDED USING OIL RESISTANT 25,000 PSI TENSILE C. HANGING ISOLATORS FOR ITEMS 300 LBS OR LESS SHALL BE BRIDGE-BEARING NEOPRENE MOUNTINGS AND SHALL HAVE OF CAM OR WALL LOUVER.
- 9. PROVIDE ACCESS TO EQUIPMENT AND APPARATUS REQUIRING OPERATION, SERVICE OR MAINTENANCE WITHIN MINIMUM STATIC DEFLECTION OF 0.2" AND ALL DIRECTIONAL SEISMIC CAPABILITY. THE ELEMENTS SHALL PREVENT THE THE LIFE OF THE SYSTEM. INCLUDING, BUT NOT LIMITED TO, MOTORS, VALVES, FILTERS, DAMPERS, SHOCK

 CENTRAL THREADED SLEEVE AND ATTACHMENT BOLT FROM CONTACTING THE CASTING DURING NORMAL OPERATION. ALL AIR MOVING EQUIPMENT SHALL BE PROVIDED WITH VIBRATION ISOLATION AND FLEXIBLE DUCT CONNECTIONS.
 - D. HANGING ISOLATORS FOR EQUIPMENT ABOVE 300 LBS SHALL BE STEEL SPRING-TYPE INCORPORATING STEEL HOUSING, PROVIDE 2 SETS OF FILTERS FOR EACH FILTERED HVAC EQUIPMENT PIECE. PROVIDE FILTER AT INITIAL START-UP, JUST NEOPRENE OR LDS RUBBER SPRING CUP SIZED FOR 1" DEFLECTION. INSTALL SPRING IN PLUMB CONFIGURATION WITH BEFORE TEST AND BALANCE AND AGAIN AT TURN OVER TO OWNER. ALL AIR INLETS AND OUTLETS SHALL BE SEALED WITH MAXIMUM 1" DEFLECTION FROM ANY HORIZONTAL DISTORTION. THE ELEMENTS SHALL PREVENT THE CENTRAL THREADED SLEEVE AND ATTACHMENT BOLT FROM CONTACTING THE CASTING DURING NORMAL OPERATION.
- 1. ALL ELECTRICAL EQUIPMENT PROVIDED UNDER THIS DIVISION SHALL COMPLY WITH THE ELECTRICAL SYSTEM CONTRACTOR SHALL SELECT SPRING COLOR/RATING BASED ON EQUIPMENT WEIGHT. AMBER BOOTH SH, KINETICS SHG. SPLIT SYSTEMS

- 1. DUCT CONSTRUCTION SHALL CONFORM TO THE RECOMMENDATIONS OF THE SMACNA HVAC DUCT CONSTRUCTION MANUAL. DUCTBOARD SHALL NOT BE PERMITTED.
- ASTM A527, GALVANIZED COATING SHALL BE NOT LESS THAN 1.25 OUNCES (TOTAL FOR BOTH SIDES) PER SQUARE FOOT OF SHEET, DUCTWORK SHALL BE CLASSIFIED AND CONSTRUCTED SMACNA PRESSURE CLASSES: +2 FOR SUPPLY AND -2 FOR RETURN AND EXHAUST. DUCTWORK GAUGE SHALL BE 26 GAUGE UP TO 30" AND 22 GAUGE
- ABOVE 30" IN CROSS SECTIONAL HEIGHT, WIDTH, OR DIAMETER. 3. CONCEALED ROUND DUCTS UP TO 12" IN DIAMETER IN PRESSURE CLASSES 2" AND LOWER SHALL BE LONGITUDINAL SEAM CONSTRUCTION.
- 4. EXPOSED ROUND DUCTWORK OR ROUND ABOVE 12" SHALL BE SPIRAL LOCK_SEAM CONSTRUCTION. ROUND FITTINGS SHALL BE FUSION WELDED BUT SEAM TYPE WITH ALL WELDS CONTINUOUS ALONG SEAMS. ALL DIVIDED FLOW FITTINGS SHALL BE MANUFACTURED AS SEPARATE FITTINGS TAP COLLARS WELDED INTO SPIRAL DUCT SECTIONS WILL NOT BE PERMITTED. ALL DIVIDED FLOW FITTINGS 12" IN DIAMETER AND SMALLER SHALL HAVE RADIUSED ENTRANCE PRODUCED BY MACHINE OR PRESS FORMING; ALL DIVIDED FLOW FITTINGS 14" AND LARGER SHALL HAVE CONICAL ENTRANCE PRODUCED BY MACHINE OR PRESS FORMING. ALL DIVIDED FLOW ENTRANCES SHALL BE FREE OF WELD BUILD_UP, BURRS AND IRREGULARITIES. FITTINGS SHALL BE OF THE SAME
- 5. DUCT SEALANT SHALL BE POLYMERIC RUBBER BASE MASTIC, MINERAL IMPREGNATED WOVEN FIBER TAPE WITH ADHESIVE, OR HEAT_SHRINK WITH ADHESIVE. TAPE THICKNESS UP TO 10" = 2"; UP TO 20" = 3"; OVER 20" = 4"

6. INSULATED FLEXIBLE DUCT SHALL BE CLASS 1 AIR DUCT IN ACCORDANCE WITH UL 181 AND SHALL COMPLY WITH

NFPA 90A AND 90B. INSULATED FLEXIBLE DUCT SHALL CONSIST OF AN INNER FILM LAYER FOR MINIMUM WORKING PRESSURE OF 6" WATER GAUGE BONDED TO A STEEL OR ALUMINUM SPRING WIRE HELIX, FIBERGLARSFANS -GENERAL INSULATION, AND A VAPOR BARRIER JACKET. INSULATION SHALL HAVE A MAXIMUM U_VALVE OF .23 BTU/HR/SQFT/DEG F AT 75 DEGREES F MEAN TEMPERATURE. VAPOR BARRIER JACKET SHALL HAVE A MAXIMUM VAPOR TRANSMISSION RATE OF 0.1 GRAINS/SQ. FT./HR/INCH HG (PERM). THE ASSEMBLY SHALL HAVE A MAXIMUM FLAME AND SMOKE RATING OF 25/50 PER ASTM E84 AND NFPA 255. FLEXIBLE DUCTS SHALL BE INSTALLED IN AN EXTENDED CONDITION FREE OF SAGS AND KINKS, USING ONLY THE MINIMUM LENGTH REQUIRED TO MAKE THE CONNECTION. ABRUPT BENDS AND TURNS THAT CRIMP THE DUCT AND RESTRICT AIR FLOW SHALL NOT BE PERMITTED. HORIZONTAL SUPPORTS SHALL BE 3/4" WIDE, 22 GAUGE FLAT GALVANIZED STEEL SHEET BANDING MATERIAL. FLEXIBLE DUCTS SHALL BE SUPPORTED ON 36" CENTERS. MAXIMUM LENGTH OF FLEXIBLE DUCT IN PRESSURE CLASS 2" AND BELOW SHALL BE 12 FEET. FLEXIBLE DUCT SHALL NOT BE USED ABOVE INACCESSIBLE CEILINGS.

- COMPONENT REPLACEMENT REQUIRED TO HAVE THE UNITS OPERATE A FULL CAPACITY. ALL RUST AND EXTERIOR DAMAGE SHOULD BE REPAIRED AND PAINTED. A TECHNICIAN'S REPORT SHOULD BE ATTAINED AND DELIVERED TO THE
- B. ALL NEW AND REUSED UNIT ACCESS AND CONNECTION OPENINGS SHALL BE SEALED WITH PROVIDED GROMMETS, SASKETS FOR AIR TIGHT CONSTRUCTION WITH CONTINUOUS CASE INSULATION. CONTRACTOR TO REPAIR OR REPLACE C. ALL EXHAUST SHALL BE DUCTED FROM UNIT OUTLET TO ROOF CAP INLET OR LOUVER WITH CONTINUOUSLY SEALED
- DUCTING. NO EXHAUST SHALL BE OPENED INTO THE BUILDING EXTERIOR. PROVIDE ENCLOSED DUCT TRANSITION TO EACH
- THE SHOCK ABSORBING NEOPRENE MATERIALS SHALL BE COMPOUNDED TO BRIDGE-BEARING SPECIFICATIONS. MASON SHALL PROVIDE GRAVITY DRAINAGE FOR ALL CONDENSATE-PRODUCING HEATING/COOLING EQUIPMENT VIA GRAVITY DRAINAGE OR CONDENSATE PUMP IF GRAVITY DRAINAGE CANNOT BE ACHIEVED.
 - FILTER MEDIA DURING GENERAL CONSTRUCTION PRIOR TO TEST AND BALANCE.

- 1. INDOOR UNITS SHALL BE INSTALLED DEAD LEVEL WITH PROVISIONS FOR POSITION, CONDENSATE DRAINAGE AND REFRIGERANT PIPE CONNECTIONS THAT DO NOT BLOCK EQUIPMENT SERVICE OR FILTER ACCESS. PROVIDE CONDENSERS WITH ANTI-SHORT CYCLE TIMER, CRANKCASE HEATER, LOW AMBIENT CONTROLS, COIL GUARDS. INDOOR AND OUTDOOR PIECES SHALL BE BY IDENTICAL MANUFACTURER LISTED BY THE MANUFACTURE AS COMPATIBLE. CASED COOLING COILS SHALL BE SPECIFICALLY LISTS AND WITH MATCHING SIZE WHEN USED WITH A FURNACE. FURNACES SHALL BE HIGH EFFICIENCY FOR USE WITH PVC FLUE AND INTAKE REQUIRING FLUE CONDENSATE NEUTRALIZER AND DRAIN.
- 2. REFRIGERANT PIPING SHALL BE RUN PARALLEL TO BUILDING WALLS IN WHICH INSTALLED UNLESS OTHERWISE 2. RIGID, SQUARE DUCTWORK SHALL BE CONSTRUCTED OF LOCK FORMING QUALITY GALVANIZED STEEL SHEETS PER INDICATED ON THE DRAWINGS WITH CONTINUOUS ELASTOMERIC INSULATION AND JACKETING INDOOR AND OUT. PROVIDE WITH AIR TIGHT VAPOR ENCAPSULATION BY USE OF MASTIC AND JACKETING. PROVIDE PIPE HANGER WITH SADDLES AT PIPE SUPPORTS FOR REFRIGERANT PIPING. TYPE L OR K (UNDERGROUND) COPPER TUBING INTENDED FOR ACR APPLICATIONS- DEHYDRATED, CHARGED WITH NITROGEN, AND PLUGGED BY THE MANUFACTURER. PROVIDE FORMED FITTINGS, SUCH AS ELBOWS (SHALL BE LONG SWEEP) AND TEES, ALL JOINTS SHALL BE BRAZED WITH OXY-ACETYLENE TORCHES BY A QUALIFIED TECHNICIAN. SOFT COPPER TUBING SHALL NOT 4. ARRANGE WITH THE UTILITY COMPANY TO PROVIDE GAS SERVICE TO INDICATED LOCATION WITH SHUTOFF AT BE ALLOWED UNLESS NOTED ON THE DRAWINGS.
 - 3. PROVIDE INDOOR UNITS LOCATED ABOVE CEILINGS WITH SLOPED SECONDARY DRAIN PAN WITH A CAPPED VALVE AND THREADED HOSE OUTLET. UNIT AND EXTERIOR DRAIN PAN SUPPORT SHALL BE INDEPENDENT SUCH THAT DRAIN PAN CAN BE REMOVED WITHOUT AFFECTING AIR HANDLING UNIT INSTALLATION.
 - 4. THE PREFERENCE SHALL BE A FLOAT SWITCH IN THE EXTERNAL DRAIN PAN TO SHUT THE UNIT DOWN. IF NOT ALLOWED BY CODE OR INSPECTOR, ROUTE THE CONDENSATE TO A CONSPICUOUS LOCATION- OVER A MOP SINK OR SERVICE SINK IF POSSIBLE.
 - 5. FOR LONG REFRIGERANT LINE LENGTHS ABOVE 100', PROVIDE ALL ACCESSORIES, ACCUMULATORS, RESIZED PISTONS AND LINE SETS PER MANUFACTURER REQUIREMENTS.
 - 6. FLOOR MOUNTED VERTICAL UNITS SHALL BE MOUNTED ON A 24" TALL, FULL SIZE RETURN PLENUM WITH METAL GAUGE SUFFICIENT TO SUPPORT UNIT WEIGHT.

- 1. FANS SHALL BE TESTED AND RATED IN ACCORDANCE WITH AMCA 210.
- 2. ALL FANS SHALL BE SUPPORTED INDEPENDENT OF CONNECTED DUCT OR CEILING SUPPORTS AND PROVIDED WITH THE OWNER OR EQUIPMENT PROVIDER.
- FLEXIBLE INLET/OUTLET CONNECTIONS. 3. FAN WHEELS SHALL BE STATICALLY AND DYNAMICALLY BALANCED.
- 4. FANS SHALL BE DIRECT DRIVE WITH SPEED CONTROLLER, DIRECT DRIVE ECM. FANS SHALL NOT BE BELT DRIVE UNLESS SPECIFICALLY NOTED ON PLANS. V-BELT DRIVES SHALL BE DESIGNED FOR NOT LESS THAN 150% OF CONNECTED DRIVING CAPACITY AND MOTOR SHEAVES SHALL BE ADJUSTABLE TO PROVIDE NOT LESS THAN 20% SPEED VARIATION. SHEAVES SHALL BE SELECTED TO DRIVE THE FAN AT A SPEED TO PRODUCE THE SCHEDULED 14.BRAZED JOINTS SHALL BE MADE UP USING BCUP-5 BRAZING ALLOY WITH A COMPATIBLE FLUX.

- MANUFACTURER'S INSTALLATION INSTRUCTIONS. PROVIDE SHUT-OFF BALL VALVE AND UNION FOR EACH CONNECTION, PROVIDE DRAIN VALVE ON DRAIN CONNECTIONS, PROVIDE SINGLE SHUTOFF BALL VALVE FOR HEADERS SERVING HOT OR COLD WATER TO MULTIPLE FIXTURES WITHIN A SINGLE WALL OR CHASE. PROVIDE
- ACCESS PANEL FOR VALVES INSTALLED ABOVE HARD CEILINGS. 15 ALL DOMESTIC WATER SERVICE AND SUPPLY PIPING INSTALLED LINDER THIS DIVISION SHALL BE DISINFECTED WITH CHLORINE BEFORE IT IS PLACED INTO OPERATION. THE CHLORINATING MATERIAL SHALL BE LIQUID CHLORINE CONFORMING TO FED. SPEC. BB-C-120 AND SHALL BE INTRODUCED TO THE SYSTEM BY EXPERIENCED OPERATORS ONLY. THE CHLORINE SOLUTION APPLIED TO THE PIPING SECTIONS OR SYSTEM SHALL CONTAIN AT LEAST FIFTY PARTS PER MILLION OF AVAILABLE CHLORINE AND SHALL REMAIN IN THE SECTIONS OR SYSTEM FOR A PERIOD OF NOT LESS THAN SIXTEEN (16) HOURS. DURING THE DISINFECTION PERIOD ALL VALVES SHALL BE OPENED AND CLOSED AT LEAST FOUR TIMES. AT THE END OF THE RETENTION PERIOD, NO LESS THAN 50 PPM OF CHLORINE SHALL BE PRESENT IN THE EXTREME END OF THIS SYSTEM. AFTER THE DISINFECTION PERIOD THE CHLORINATED WATER SHALL BE FLUSHED FROM THE SYSTEM WITH CLEAR WATER UNTIL THE RESIDUAL CHLORINE CONTENT IS NOT GREATER THAN TWO-TENTHS - (0.2) - PARTS PER MILLION. THE CONSTRUCTION MANAGER SHALL SUBMIT TO THE ARCHITECT WRITTEN CERTIFICATION THAT THE SYSTEM WAS DISINFECTED. CERTIFICATION SHALL INCLUDE

NAME OF PROJECT, NAME OF OWNER, NAME OF OPERATORS, DATE OF DISINFECTION, TIMES OF DISINFECTION

PERIOD, MAXIMUM CHLORINE LEVEL AND RESIDUAL CHLORINE LEVEL.

- . ABOVE-GROUND MAXIMUM 2-1/2" GAS PIPING SHALL BE BLACK STEEL PIPE. .SCHEDULE 40. ASTM A53 WITH STANDARD WEIGHT WROUGHT STEEL SOCKET-WELD FITTINGS PER ASTM A234 OR THREADED CONNECTIONS. PIPE SIZES 3" AND UP OR WITH PRESSURE ABOVE 5PSI SHALL ONLY BE PERMITTED WITH SOCKET-WELDED JOINTS (NO
- WHICH SHALL CONSIST OF A RESILIENT, EXTRUDED, POLYETHYLENE SLEEVE WHICH IS SEALED TO THE PIPE. THE PLASTIC COATING SHALL BE NOT LESS THAN 25 MILS THICK AND SEALED TO THE PIPE WITH A HOT APPLIED ADHESIVE WHICH RETAINS ITS ELASTICITY IN HOT AND COLD ENVIRONMENTS. 3. FIELD APPLIED WRAPPING TAPE FOR FITTINGS AND JOINTS SHALL BE COAL TAR WITH HEAVY VINYL OR POLYESTER
- FILM BACKING MEETING FEDERAL SPECIFICATION HH-T-30A, TAPECOAT CT OR TAPECOAT 20 OR JT JOINT COATINGS, INC., WITH PRIMER, APPLICATION PROCEDURES AND HEATING IN ACCORDANCE WITH THE TAPE MANUFACTURER'S RECOMMENDATIONS.
- TERMINATION. MAKE ALL ARRANGEMENTS WITH UTILITY AS TO THE EXTENT OF ITS WORK, AND PAY ALL COSTS, FEES AND SECURE PERMITS INVOLVED TO OBTAIN SERVICE FOR THE BUILDING
- INDICATED; PROVIDE PARTS AND ACCESSORIES REQUIRED BY UTILITY TO CONNECT TO METER. 6. PROVIDE VALVE AND UNION SHALL BE PROVIDED AT EACH CONNECTION TO A PIECE OF EQUIPMENT. EQUIPMENT PROVIDED WITH A FLANGED INLET SHALL HAVE A FLANGED CONNECTION.
- 7. DRIP LEGS, 6-INCHES LONG, SHALL BE PROVIDED IN GAS PIPING AT ENDS OF HORIZONTAL RUNS, AT THE BASE OF RISERS AND AT CONNECTIONS TO EQUIPMENT. DRIP LEG CAP SHALL BE REMOVABLE WITH MINIMUM 4" BETWEEN CAP AND WALL OR ROOF.

5. PROVIDE SHUTOFF IN GAS SERVICE PIPE AT ENTRY IN BUILDING, EXT/END PIPE TO GAS METER LOCATION

- 8. GAS PIPING WITHIN THE BUILDING SHALL BE RUN ABOVE FLOOR SLAB.
- 9. PRESSURE REGULATORS ARE TO BE PROVIDED ON ALL EQUIPMENT IF NOT PROVIDED AS PART OF THE EQUIPMENT. CONTRACTOR SHALL ARRANGE FOR ADJUSTMENT OF GAS PRESSURE TO PREVENT EXCESSIVE OR INSUFFICIENT GAS GREASE-LUBRICATED BALL BEARINGS. PRESSURE TO ALL EQUIPMENT PIECES.
 - 10.PROVIDE FLEX HOSE CONNECTION TO ALL INDOOR APPLIANCES NOT SUPPLIED WITH THE EQUIPMENT PIECE BY

11.THREADED JOINTS SHALL BE MADE WITH A MIXTURE OF GRAPHITE AND OIL APPLIED TO MALE THREADS ONLY.

AFTER CUTTING AND PRIOR TO THREADING, PIPE SHALL BE REAMED AND SHALL HAVE BURRS REMOVED. 12.WELDED JOINTS SHALL BE FUSION WELDED IN ACCORDANCE WITH ANSI B31, SECTION 6. 13.FLANGED JOINTS SHALL BE FACED TRUE, PROVIDED WITH GASKET AND MADE SQUARE AND TIGHT.

15.ALL STEEL FITTINGS AND JOINTS IN UNDERGROUND PIPING SHALL BE FIELD-COATED USING A PRIMER AND FLEXIBLE POLYETHYLENE TAPE AND THE SAME MANUFACTURER AS THE PIPE COATING. DAMAGED COATING SHALL BE REPAIRED WITH PRIMER AND TAPE AS SPECIFIED FOR FITTINGS AND JOINTS.

- UNDERGROUND SANITARY, WASTE AND VENT PIPING, AND STORM DRAINAGE PIPING, AND INDOOR PIPING ABOVE 8" IN SIZE SHALL BE SERVICE WEIGHT (COATED) CAST IRON SOIL PIPE AND FITTINGS. ASTM A74. WITH GASKET HUB AND SPIGOT JOINTS, ASTM C564. GASKET JOINTS FOR CAST IRON PIPE SHALL BE MADE WITH LUBRICATED NEOPRENE COMPRESSION GASKETS. PVC SHALL BE PERMITTED IF ALLOWED BY LOCAL CODE. UNDERGROUND PVC PIPING SHALL BE SCHEDULE 40 PVC WITH SOLVENT WELD JOINTS MEETING ASTM D-1785
- ABOVE-GROUND SANITARY, WASTE AND VENT AND STORM DRAINAGE PIPING 8" AND SMALLER SHALL BE SERVICE WEIGHT CAST IRON SOIL PIPE AND FITTINGS, ASTM A888 AND CISPI 301, WITH STANDARD NO-HUB COUPLINGS. PVC SHALL BE PERMITTED OUTSIDE OF RETURN AIR PLENUMS WITH OWNER APPROVAL. NEOPRENE RUBBER GASKET AND MINIMUM 24 GAUGE TYPE 304 STAINLESS STEEL SHIELD AND FOUR STAINLESS STEEL BANDS FOR SIZES 1 1/2" THROUGH 4", SIX BANDS MINIMUM FOR SIZED 5" AND LARGER. 6" PIPE AND UP: NEOPRENE ELASTOMERIC GASKET AND SERIES 300 STAINLESS STEEL SHIELD AND MULTIPLE DRAW BANDS AND SCREW CLAMPS CONFORMING TO ASTM C-564 AND CISPI STANDARD 310-90. ABOVE-GROUND SANITARY PIPING, LOCATED OUTSIDE OF RETURN AIR PLENUMS MAY ALSO BE SCHEDULE 40 PVC WITH SOLVENT WELD JOINTS
- 3. ALL WASTE PIPING 1" IN SIZE AND SMALLER SHALL BE TYPE "L" HARD DRAWN COPPER TUBING, ASTM B88, WITH SOLDERED JOINTS AND WROUGHT COPPER, ANSI B16.22, OR CAST BRONZE, ANSI B16.18, SOCKET FITTINGS. SOLDERED JOINTS FOR TYPE 'L' COPPER TUBING AND CAST DMV BRONZE PIPE SHALL BE MADE WITH 95-5
- PROVIDE CLEVIS SUPPORTS WITH BEAM CLAMP, CONCRETE ANCHORS (CONCRETE STRUCTURE), SCREWED BRACKET (WOOD STRUCTURE). PROVIDE HANGER OUTSIDE OF INSULATION WITH RIGID FOAM GLASS INSULATION SECTION AT HANGERS. PROVIDE 16 GAUGE PIPING SADDLE AT EACH HANGER. NO WELDING OR CUTTING OF STEEL \mid
- 3. HANGER INSTALLATION FOR HOT WATER PIPING SHALL NOT PREVENT MOVEMENT FOR PIPING EXPANSION.

PVC DRAINAGE (140 DEG F SERVICE UP TO 6"- 80 DEG F ABOVE 6")UP TO 3" - 3" ; 4" TO 6" - 4"; ABOVE 6" - 8'

1. VALVES SHALL HAVE THE NAME OR TRADEMARK OF THE MANUFACTURER AND THE WORKING PRESSURE

- 2. ALL VALVES IN EACH SYSTEM, EXCEPT FOR SPECIAL TYPES SHALL BE THE PRODUCT OF A SINGLE MANUFACTURER 3. ALL VALVES REQUIRING PACKING SHALL BE DESIGNED AND CONSTRUCTED SUCH THAT THEY CAN BE REPACKED
- 4. VALVE HAND WHEELS/ ACTUATOR SHALL BE MALLEABLE IRON EXCEPT WHERE SPECIFIED OTHERWISE
- VALVE ACTUATOR SHALL BE ORIENTED, WHEN INSTALLED, TO PROVIDE MAXIMUM ACCESSIBILITY FOR OPERATION. 6. PROVIDE ACCESS PANELS FOR VALVES LOCATED IN WALLS OR ABOVE HARD CEILINGS.

1. BALL VALVES (FOR PIPING 3" AND SMALLER) SHALL HAVE BRONZE BODY, STAINLESS STEEL BALL, LEVER HANDLE,

- GATE VALVES (FOR DOMESTIC PIPING 4" IN SIZE AND LARGER); VALVE SHALL HAVE IRON BODY, BRONZE TRIM. NON-RISING STEM, SOLID WEDGE AND FLANGED ENDS FOR 200 POUND W.O.G. LAYOUT BASIS FOR VALVE SHALL
- s. BUTTERFLY VALVES (FOR HYDRONIC PIPING 4" AND LARGER): VALVE SHALL HAVE DUCTILE IRON BODY, EXTENDED NECK, GEOMETRIC DRIVE MOLDED-IN SEAT LINER, EPDM LINER AND ALUMINUM BRONZE DISC - INSTALL BETWEEN STD. ANSI CLASS 125/150 FLANGES - CONFORMING TO MSS-SP67/MSS-SP25/API-609. LAYOUT BASIS
- 4. CHECK VALVES (4" IN SIZE AND LARGER): VALVE SHALL BE HORIZONTAL SWING TYPE WITH IRON BODY, BRONZE
- 5. CHECK VALVES (3" IN SIZE AND SMALLER): VALVE SHALL BE HORIZONTAL SWING TYPE WITH BRONZE BODY COMPOSITION DISC AND SOLDER ENDS FOR 200 POUND W.O.G. LAYOUT BASIS SHALL BE NIBCO S/T-413. 6. HOSE END DRAIN VALVES: VALVE SHALL BE 3/4" IN SIZE WITH BRONZE BODY, NON-RISING STEM, SOLID WEDGE,
 - UNDERGROUND GATE VALVES AND VALVE BOXES: GATE VALVES (4" IN SIZE AND LARGER) SHALL BE AWWA APPROVED WITH IRON BODY, BRONZE TRIM, NON-RISING STEM, PARALLEL SEAT DOUBLE DISC, SQUARE OPERATING NUT AND MECHANICAL JOINT ENDS FOR 200 POUND W.W.P. VALVE BOXES SHALL BE PROVIDED OVER FACH UNDERGROUND GATE VALVE, VALVE BOXES SHALL BE ADJUSTABLE CAST IRON BOADWAY TYPE WITH BELLED LOWER SECTION AND REMOVABLE LID AT GRADE. LID SHALL BE LABELED "WATER" AND BOXES NOT IN PAVED AREAS SHALL BE SET IN A 12" X 12" X 6" CONCRETE PAD. VALVE BOXES LAYOUT BASIS SHALL BE MUELLER
 - 1. PLUG VALVES (3" IN SIZE AND LARGER): VALVES SHALL BE THE SEMI-STEEL TYPE WITH CAST IRON BODY. LUBRICATED CAST IRON PLUG, FLANGED ENDS AND WRENCH OPERATED FOR 175 POUND W.O.G. VALVES LAYOUT
- 2. PLUG VALVES (2 1/2" IN SIZE AND SMALLER): VALVES SHALL HAVE BRONZE BODY AND PLUG, THREADED ENDS AND SQUARE HEAD FOR 175 POUND W.O.G. VALVE LAYOUT BASIS SHALL BE: WALWORTH NO. 1736 3. BALL VALVES (1/2", 3/4", AND 1" UP TO 1/2 PSI FOR APPLIANCE CONNECTION); VALVE SHALL BE LEVER HANDLE,
- 600 PSI CWP RATED 1/2 PSI FOR INDOOR APPLIANCE CONNECTIONS PER ANSI Z21.15 & CGA 9.1A. LAYOUT BASIS SHALL BE NIBCO GB1A. 4. LUBRICATED PLUG VALVES SHALL BE LUBRICATED AT THE FACTORY AND SEALANT SHALL BE DESIGNED FOR NATURAL GAS. PROVIDE SIX (6) STICKS OR TUBES OF SEALANT UTILIZED AND TURN SUCH OVER TO THE OWNER. PROVIDE ONE (1) VALVE WRENCH FOR EACH SIZE AND TYPE OF VALVE HEAD AND TURN SUCH WRENCHES OVER
- TO THE OWNER. 5. PRESSURE REGULATING VALVE: VALVE SHALL HAVE INTERCHANGEABLE ALUMINUM ORIFICE, MOLDED DEEP CONVOLUTION DIAPHRAGM WITH O-RING SEAL, PLATED STEEL DIAPHRAGM PLATE, STAINLESS STEEL LEVER PIN, ONE PIECE MOLDED BUNA-N VALVE SEAT, DIE CAST ZINC VALVE STEM, DELRINFI VENT VALVE WITH BUNA-N SEAT. SPRING LOADED INTERNAL RELIEF VALVE ASSEMBLY, 1" AND 3/4" THREADED VENT WITH STAINLESS STEEL SCREEN, FIBERGLASS REINFORCED POLETHELYNE SEAL CAP WITH INTEGRAL RELIEF VALVE STOP, AND FIELD INTERCHANGEABLE ADJUSTMENT SPRING, CSA 6-18 APPROVED. PROVIDE THREE SPRINGS AT RATED OUTLET PRESSURE PLUS SPRING FOR NEXT HIGHES AND LOWEST PRESSURE RATING FOR BALANCING PURPOSES. PROVIDE
- ALL VENTING REQUIRED BY THE MANUFACTURER FOR ALL INDOOR MOUNTED REGULATORS. LAYOUT BASIS SHALL 6. CONTRACTOR SHALL PROVIDE REGULATORS AT ALL APPLIANCE CONNECTIONS REGARDLESS OF SUPPLY PRESSUR UNLESS THE REQUIRED EQUIPMENT DELIVERY PRESSURE CAN BE DELIVERED WITHOUT THE USE OF A REGULATOR. 7. CONTRACTOR TO COORDINATE INLET/OUTLET PRESSURES WITH DRAWINGS AND GAS EQUIPMENT
- STEEL GAS PIPING TO BE INSTALLED UNDERGROUND SHALL BE FURNISHED WITH A FACTORY APPLIED COATING 8. INSTALL ALL REGULATORS CLEAR OF ANY EQUIPMENT ACCESS SUCH THAT VALVE SPRINGS AND ORIFICE CAN BE ACCESSED WITHOUT REMOVING VALVE. D. CLOSE-COUPLED, IN-LINE CENTRIFUGAL PUMPS

1. DESCRIPTION: FACTORY-ASSEMBLED AND -TESTED, CENTRIFUGAL, OVERHUNG-IMPELLER, CLOSE-COUPLED,

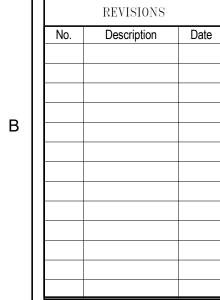
IN-LINE PUMP: DESIGNED FOR INSTALLATION WITH PUMP AND MOTOR SHAFTS MOUNTED HORIZONTALLY OR

MANUFACTURERS REQUIREMENTS.

- VERTICALLY, PUMP SHALL BE SUPPORTED INDEPENDENT OF PIPING, INSTALL A CHECK VALVE AT ALL PUMP OUTLETS. MOTOR: SINGLE SPEED, AND RIGIDLY MOUNTED TO PUMP CASING. LAYOUT BASIS FOR HOT WATER RECIRCULATION PUMPS SHALL BE GRUNDFOS UP15-18 OR UP-15-29 FOR PIPING RUNS IN EXCESS OF 100'. CASING: RADIALLY SPLIT, CAST IRON, WITH REPLACEABLE BRONZE WEAR RINGS, THREADED GAGE TAPPINGS AT
- INLET AND OUTLET, AND FLANGED OR THREADED (HOT WATER RECIRCULATION PUMPS) CONNECTIONS. 3. IMPELLER: ASTM B 584, CAST BRONZE; STATICALLY AND DYNAMICALLY BALANCED, KEYED TO SHAFT, AND SECURED WITH A LOCKING CAP SCREW. TRIM IMPELLER TO MATCH SPECIFIED PERFORMANCE.
- 4. PUMP SHAFT: STAINLESS STEEL. 5. IN SUBPARAGRAPH BELOW, SELECT FIRST OPTION FOR TEMPERATURE RATING OF 225 DEG F (107 DEG C); SELECT SECOND OPTION FOR 250 DEG F (121 DEG C). 6. MECHANICAL SEAL: CARBON ROTATING RING AGAINST A CERAMIC SEAT HELD BY A STAINLESS-STEEL SPRING, AND
- 7. PACKING SEAL: STUFFING BOX, WITH A MINIMUM OF FOUR RINGS OF GRAPHITE-IMPREGNATED BRAIDED YARN WITH BRONZE LANTERN RING BETWEEN CENTER TWO GRAPHITE RINGS, AND BRONZE PACKING GLAND. COORDINATE INLET/OUTLET PRESSURES WITH ACTUAL DELIVERED PRESSURE AND EQUIPMENT INLET PRESSURES. 8. PUMP BEARINGS: PERMANENTLY LUBRICATED BALL BEARINGS UP THROUGH 5 HP. LARGER MOTORS HAVE

EPT BELLOWS AND GASKET. INCLUDE WATER SLINGER ON SHAFT BETWEEN MOTOR AND SEAL

12/4/2020



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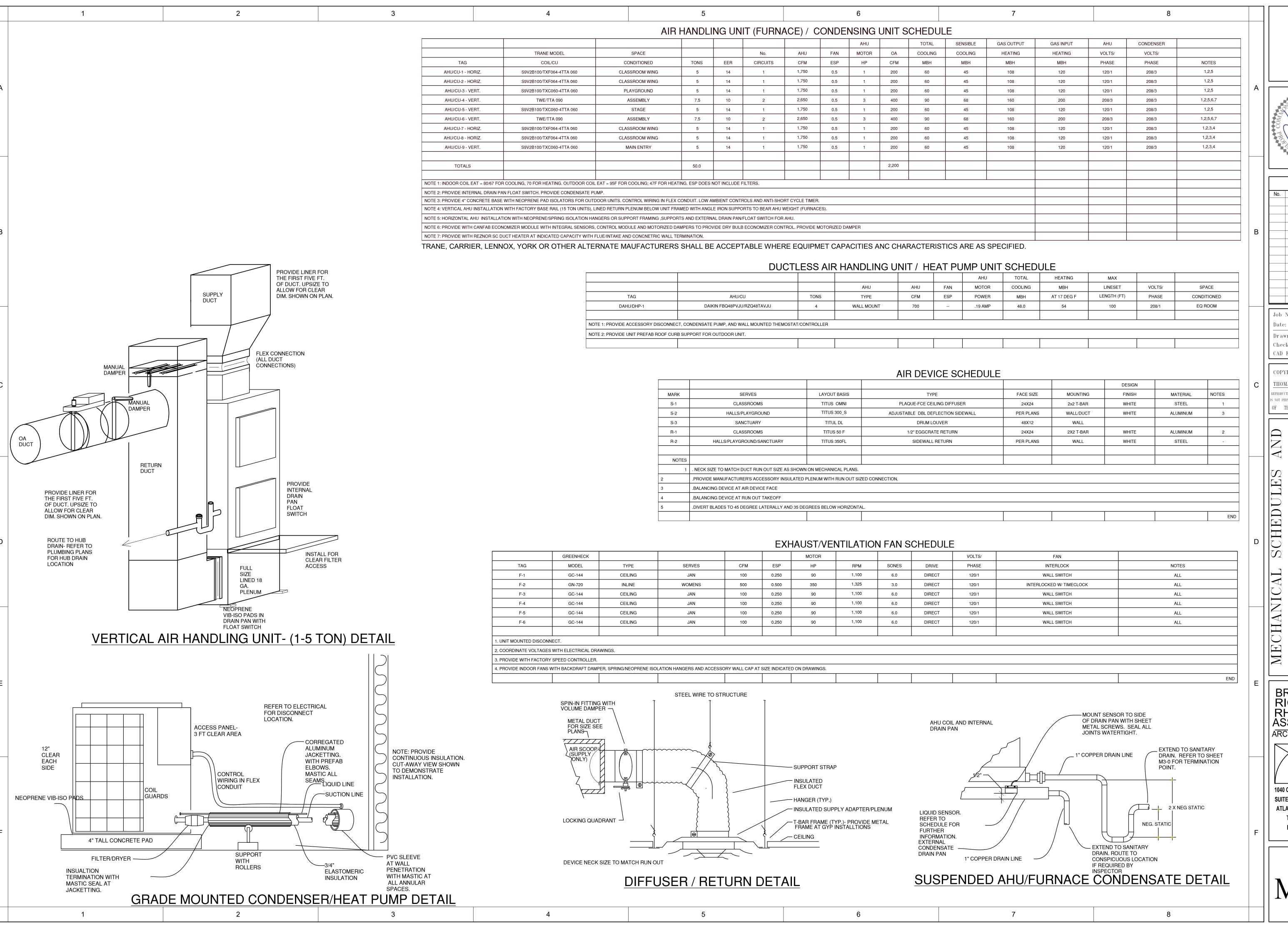
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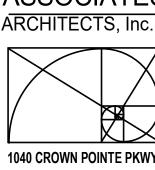


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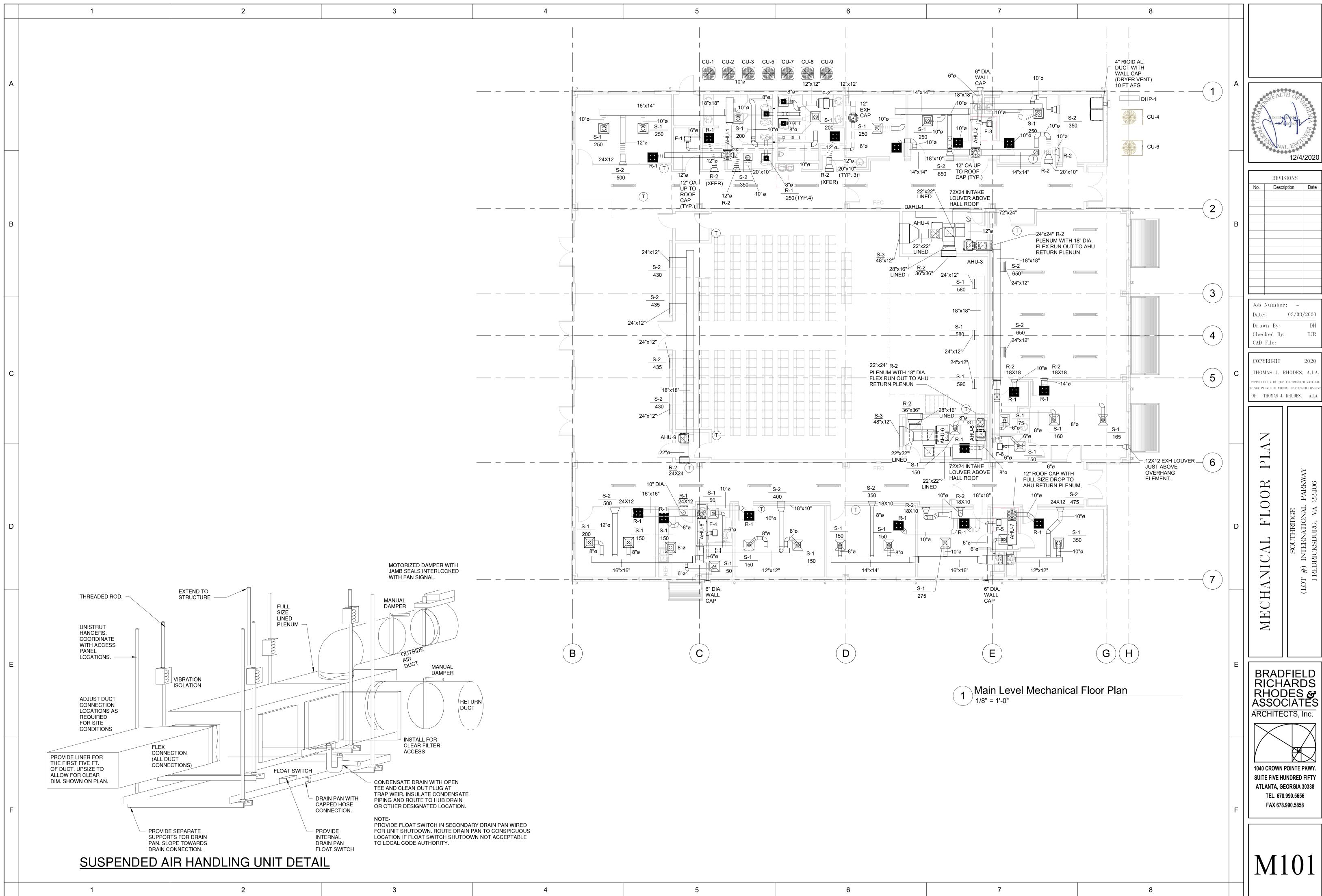
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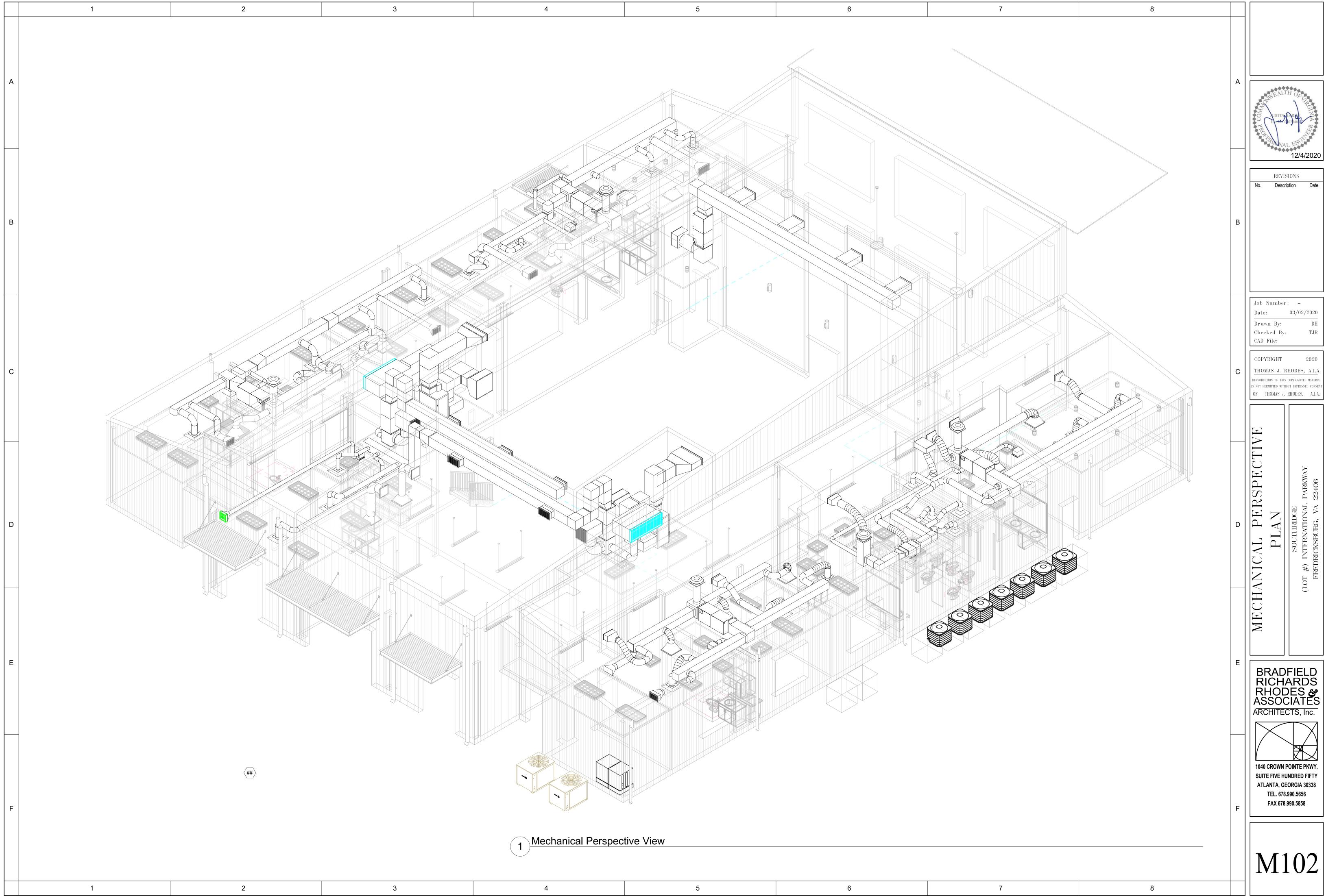
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(NOTE: ALL SYMBOLS SHOWN MAY NOT APPEAR ON DRAWINGS AND ARE USED AS APPLICABLE TO THIS PROJECT)

VOLUME CONTROL

PLYWOOD EQUIPMENT BACKBOARD

CLOSED CIRCUIT TELEVISION CAMERA

4'X8' UNLESS NOTED OTHERWISE

COAXIAL CABLE OUTLET

ABBREVIATIONS

DENOTES CONDUIT TURNING UP IN PLAN VIEW

SHORT CIRCUIT AVAILABLE CURRENT

STUB UP

DENOTES CONDUIT TURNING DOWN IN PLAN VIEW

	<u> </u>				
A, AMPS	AMPERES	FLA	FULL LOAD AMPERES	NO	NORMALLY OPEN, NUMBER
A/C	AIR CONDITIONER	GND	GROUND	NTC	
AC	ALTERNATING CURRENT	GALV	GALVANIZED	NTS	NOT TO SCALE
AF	AMPERE FRAME	GRS	GALVANIZED RIGID STEEL	PNL	PANELBOARD
AFF	ABOVE FINISHED FLOOR	GFCI	GROUND FAULT	PVC	POLYVINYL CHLORIDE
AFG	ABOVE FINISHED GRADE		CIRCUIT INTERRUPTER	RGS	RIGID GALVANIZED
AIC	AMPERE	GFI	GROUND FAULT INTERRUPTER	D140	STEEL CONDUIT
	INTERRUPTING CURRENT	HD	HEAT DETECTOR	RMC	RIGID METALLIC
AL	ALUMINUM	HD HP			CONDUIT (GALVANIZED)
ANSI	AMERICAN NATIONAL		HORSEPOWER	RMS	ROOT-MEAN-SQUARE
	STANDARDS INSTITUTE	IMC	INTERMEDIATE METAL CONDUIT	RNC	RIGID NON-METALLIC
AWG	AMERICAN WIRE GAUGE	ISC	INTERRUPTING SHORT CIRCUIT		CONDUIT
BC	BARE COPPER	IG	ISOLATED GROUND	SCA	SHORT CIRCUIT
BKBD	BACKBOARD	INST	INSTANTANEOUS		AVAILABLE
		JB	JUNCTION BOX	SWBD	SWITCHBOARD
C	CONDUIT	KAIC	KILO (THOUSAND) AMPERES	SWGR	SWITCHGEAR
СВ	CIRCUIT BREAKER		INTERRUPTING CAPACITY	TBD	TO BE DETERMINED
CKT	CIRCUIT	KCMIL	KILO (THOUSAND)	TCP	TEMPERATURE CONTROL
CU	COPPER		CIRCULAR MILS		PANEL
DIST	DISTRIBUTION	KV	KILO (THOUSAND) VOLTS	TD	TIME DELAY
DN	DOWN	KVA	KILO (THOUSAND)	TEL	TELEPHONE
DP	DISTRIBUTION PANEL		VOLT-AMPERES	TVSS	TRANSIENT VOLTAGE
DWG	DRAWING	KW	KILO (THOUSAND) WATTS	1733	
EB	ENCASED BURIAL	KWH	KILO (THOUSAND) WATT-HOURS	TYP	SURGE SUPPRESSION
EC	EMPTY CONDUIT	LFMC	LIQUID-TIGHT FLEXIBLE		TYPICAL
EEW	ENERGIZED ELECTRICAL WORK	LI WIC	METAL CONDUIT	UG	UNDERGROUND
EGC	EQUIPMENT GROUNDING	MCB	MAIN CIRCUIT BREAKER	UL	UNDERWRITER'S LABORATORIES
	CONDUCTOR	MCM	THOUSAND CIRCULAR MILS	UON	UNLESS OTHERWISE
ELR	END-OF-LINE RESISTOR	MCCB	MOLDED CASE		UNDERGROUND PULLBOX
EWC	ELECTRIC WATER COOLER	MLO	MAIN LUGS ONLY	V	VOLTS
<e></e>	EXISTING	N	NEUTRAL	VA	VOLT-AMPERES
<er></er>	EXISTING TO REMAIN	NEC	NATIONAL ELECTRICAL	VFD	VARIABLE
<ex></ex>	EXISTING		CODE		FREQUENCY DRIVE
FA	FIRE ALARM	NESC	NATIONAL ELECTRICAL	WH	WATER HEATER
FAA	FIRE ALARM FIRE ALARM ANNUNCIATOR	INLOC	SAFETY CODE	WP	WEATHERPROOF
FACP	FIRE ALARM ANNUNCIATOR FIRE ALARM CONTROL PANEL	NIC	NOT IN CONTRACT	WP WT	WATERTIGHT
FACE	FIRE ALARM CONTROL PANEL				
		NL	NIGHT LIGHT	XFMR	TRANSFORMER

ELECTRICAL SPECIFICATIONS/NOTES

NOTE: MANUFACTURER'S NAMES ON WHICH THIS SPECIFICATION IS BASED INDICATE THE MINIMUM QUALITY OF PRODUCT REQUIRED. SUBSTITUTION MAY BE MADE TO THOSE SPECIFIED IF DEEMED EQUIVALENT BY THE OWNER'S REPRESENTATIVE. ALL WORK AND PRODUCTS SHALL MEET THE REQUIREMENTS OF THE LANDLORD.

- 1. THE GENERAL CONDITIONS AND SUPPLEMENTARY GENERAL CONDITIONS SHALL BE CONSIDERED AS PART OF THIS SPECIFICATION.
- 2. ALL WORK TO BE IN ACCORDANCE WITH THE RULES AND REGULATION OF THE LOCAL AUTHORITIES HAVING JURISDICTION AND THE MOST RECENT EDITION OF NATIONAL ELECTRIC CODE.
- 3. CONTRACTOR SHALL FILE PLANS WITH AND OBTAIN APPROVALS FROM MUNICIPAL AGENCIES. ALL PERMITS AND CERTIFICATES OF INSPECTION SHALL BE OBTAINED AND PAID FOR BY THE CONTRACTOR.
- PERTINENT CERTIFICATES SHALL BE DELIVERED TO THE OWNER'S REPRESENTATIVE, PRIOR TO FINAL BILLING.

AS EVIDENCE OF KNOWLEDGE OF EXISTING CONDITIONS.

4. CONTRACTOR SHALL VISIT SITE PRIOR TO BIDDING. BIDS SHALL SERVE

HE SHALL CAREFULLY EXAMINE THE EXISTING CONDITIONS AND LIMITATIONS THEREOF. HE SHALL ASCERTAIN CONDITIONS UNDER WHICH THE WORK MUST BE PERFORMED, INCLUDING THE HANDLING OF MATERIALS, SECURITY AND LIMITING FIELD DIMENSIONS. FURTHER, THIS CONTRACTOR SHALL PROVIDE FIELD VERIFICATION OF LOCATION OF POINTS OF CONNECTION TO LANDLORD'S ELECTRICAL AND TELEPHONE EQUIPMENT AND DISTANCE FROM LEASED SPACE.

ANY DISCREPANCIES WITH THE CONSTRUCTION DOCUMENTS DISCOVERED AS A RESULT OF THE AFOREMENTIONED FIELD SURVEY, SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER'S REPRESENTATIVE, PRIOR TO COMMENCING ANY WORK. ANY ADDITIONAL COSTS RESULTING FROM CONTRACTOR'S FAILURE TO DO SO SHALL BE HIS RESPONSIBILITY AND SHALL BE BORNE BY HIM.

 ELECTRICAL CONTRACTOR SHALL RECORD ALL FIELD CHANGES IN HIS WORK AS THE JOB PROGRESSES; AN ACCURATE RECORD OF ALL WORK AS ACTUALLY INSTALLED.

UPON COMPLETION OF THE WORK AND BEFORE FINAL PAYMENT IS AUTHORIZED, SHALL TURN OVER TO THE OWNER'S REPRESENTATIVE A RECORD SET OF PRINTS SHOWING THESE CHANGES.

- 6. SUBMIT MATERIAL LISTS AND SHOP DRAWINGS FOR MAJOR EQUIPMENT TO THE OWNER'S REPRESENTATIVE FOR REVIEW. SUBMITTALS SHALL BE IN ACCORDANCE WITH GENERAL CONDITIONS AND SHALL BEAR THE STAMP OF THE ELECTRICAL CONTRACTOR SHOWING THAT HE HAS REVIEWED AND APPROVED THEM. LACK OF SUCH CONTRACTOR'S APPROVAL WILL BE CAUSE FOR REJECTION WITHOUT REVIEW BY THE
- 7. THIS CONTRACTOR SHALL DO ALL CUTTING, CHASING, OR CHANNELING AND PATCHING REQUIRED FOR ANY WORK HEREIN SPECIFIED.
- ALL OPENINGS THROUGH STRUCTURALLY SUPPORTED SLABS MUST BE COREBORED, SLEEVED, GROUTED, SEALED AND MADE WATERPROOF. SLEEVES MUST EXTEND AT LEAST 2" AFF.
- ALL SLEEVES, OPENINGS, ETC. THROUGH FIRE RATED WALLS AND FLOORS SHALL BE SEALED AFTER CONDUIT INSTALLATION TO RETAIN FIRE RATING
- 8. ALL ELECTRICAL WORK SHALL BE INSTALLED SO AS TO BE READILY ACCESSIBLE FOR OPERATING, SERVICING, MAINTAINING AND REPAIR.

HANGERS SHALL INCLUDE ALL MISCELLANEOUS STEEL, SUCH AS CHANNELS, RODS, ETC., NECESSARY FOR THE INSTALLATION OF WORK AND SHALL BE SECURED TO THE BUILDING STRUCTURE, NOT TO PIPING OR DUCTWORK.

ALL CONDUIT SHALL BE CONCEALED WHERE POSSIBLE. EXPOSED CONDUIT SHALL BE RUN IN STRAIGHT LINES PARALLEL WITH OR AT RIGHT ANGLES TO COLUMN LINES AND SEPARATED AT LEAST 3" FROM WATER LINES WHEREVER THEY RUN ALONG SIDE OR ACROSS SUCH LINES.

9. EVERY PART OF THE INSTALLATION SHALL BE TESTED, OPERATED AND LEFT IN PERFECT WORKING ORDER.

TEST ALL WIRES AND CABLES INSTALLED UNDER THIS CONTRACT WITH A 1,000 VOLT MEGOHM METER. ANY READINGS THAT ARE LOWER THAN REQUIRED BY GOOD PRACTICE OR APPLICABLE CODES, PROMPTLY REPLACE THE MATERIALS OR EQUIPMENT INVOLVED.

SHOULD TESTING REVEAL ANY OTHER DEFECTS, PROMPTLY CORRECT SUCH DEFECTS AND RERUN TESTS UNTIL THE ENTIRE INSTALLATION IS SATISFACTORY IN ALL RESPECTS.

10. GUARANTEE:
CONTRACTOR IS TO GUARANTEE ALL WORK FOR A PERIOD OF ONE
YEAR AFTER THE DATE OF ACCEPTANCE OF THE PROJECT BY THE
OWNER. IT IS UNDERSTOOD BY HIS ACCEPTANCE OF THE CONTRACT
THAT THIS CONTRACTOR WILL MAKE GOOD ANY AND ALL WORK WHICH
IN ANY WAY HAS BECOME DEFECTIVE AS TO THE QUALITY OF
MATERIALS AND WORKMANSHIP FOR ANY CAUSE OTHER THAN ORDINARY
WEAR AND TEAR.

FOR THE SAME PERIOD, ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO THE PREMISES CAUSED BY DEFECTS IN WORKMANSHIP OR IN THE WORK OR EQUIPMENT FURNISHED AND/OR INSTALLED BY HIM.

- 1. THE CONTRACTOR, BEFORE FINAL ACCEPTANCE BY THE OWNER WILL BE GRANTED, SHALL CLEAN ALL LIGHTING FIXTURES, DEVICE PLATES, SERVICE FITTINGS AND OTHER ITEMS FURNISHED UNDER THIS CONTRACT. HE SHALL INSURE THAT ALL DIRECTORIES ARE IN PLACE WITH COMPLETED OR REVISED SCHEDULES AND ALL IDENTIFICATIONS AND MARKINGS OF EQUIPMENT, CABLES AND OTHER ITEMS ARE COMPLETED.
- 12. THIS CONTRACTOR SHALL COORDINATE SEQUENCE OF WORK WITH ALL OTHER TRADES. CONTRACTOR SHALL VERIFY VOLTAGE OF MECHANICAL EQUIPMENT AND FLUORESCENT FIXTURE BALLASTS, PRIOR COMMENCING ANY WORK
- 13. THIS CONTRACTOR SHALL MAKE ARRANGEMENTS FOR TEMPORARY POWER AND SHALL PAY THE COST FOR THE UTILITY CONNECTION AND SHALL BE RESPONSIBLE FOR THE PROPER MAINTENANCE OF THE TEMPORARY WORK AND FOR THE REMOVAL OF SAME.

CONTRACTOR SHALL PAY ALL UTILITY CHARGES IN CONNECTION WITH THE TEMPORARY POWER.

CONTRACTOR SHALL PROVIDE GROUND FAULT PROTECTION FOR ALL POWER EQUIPMENT USED ON THE PREMISES DURING CONSTRUCTION.

14. SCOPE OF WORK
CONTRACTOR SHALL FURNISH ALL LABOR, MATERIALS, SUPPLIES,
EQUIPMENT AND FEES REQUIRED TO COMPLETELY INSTALL, TEST AND
PLACE THE HEREIN SPECIFIED EQUIPMENT, COMPONENTS, CONTROLS,
AND SYSTEMS IN SERVICE.

COMPLETE POWER AND LIGHTING DISTRIBUTION SYSTEMS INCLUDING ALL PANELS AND COMPLETE BRANCH CIRCUIT WIRING SYSTEM.

COMPLETE UTILITY MOTOR WIRING SYSTEM (EXCEPT AS NOTED).

COMPLETE LIGHTING FIXTURE INSTALLATION.

COMPLETE TELEPHONE CONDUIT SYSTEM. CONDUIT FROM POINT OF CONNECTION TO LANDLORD'S SYSTEM AND ALL TERMINAL DEVICES, BOXES CONDUIT PLATES FTO

BOXES, CONDUIT, PLATES, ETC.

TEMPORARY ELECTRICAL SERVICE AS REQUIRED FOR CONSTRUCTION.

WIRING AND FINAL CONNECTION TO ALL SIGNS AND GRAPHICS, FURNISHED BY THE OWNER.

PROVISIONS FOR FIRE ALARM/SMOKE EVACUATION SYSTEM AND EXTENSION TO LANDLORD'S SYSTEM.

TESTING OF ALL CABLES AND CIRCUIT WIRING AFTER INSTALLATION.

WARRANTY OF ALL WORK FOR A PERIOD OF ONE YEAR FROM DATE OF PROJECT CLOSE-OUT.

15. ELECTRICAL SERVICE PROVIDE ELECTRICAL AS INDICATED ON THE DRAWING.

TESTING OF ALL ELECTRICAL EQUIPMENT.

ALL WORK NOT SPECIFICALLY NOTED AS BEING BY THE LANDLORD OR THE POWER COMPANY SHALL BE PROVIDED BY THE ELECTRICAL CONTRACTOR.

CLOSELY COORDINATE ENTIRE INSTALLATION WITH THE POWER COMPANY.

CONTRACTOR SHALL MAKE ARRANGEMENTS WITH THE LOCAL UTILITY
FOR INSTALLATION OF METERING.

16. CONTRACTOR SHALL MAKE ARRANGEMENTS WITH THE LOCAL TELEPHONE UTILITY FOR TELEPHONE SERVICE TO THE SPACE, CONDUIT SYSTEM FOR TELEPHONE DISTRIBUTION TO THE LEASED PREMISES SHALL BE PROVIDED WHERE REQUIRED FOR UTILITY COMPANY WIRES.

COORDINATE INSTALLATION OF TELEPHONE WORK AND INSTALL ALL CONDUIT FOR TELEPHONE SYSTEM.

OUTLET BOXES SHALL BE 4" SQUARE MINIMUM WITH SINGLE DEVICE COVER AND TELEPHONE PLATE.

TELEPHONE TERMINAL BOARD.

17. FURNISH ALL LABOR, MATERIALS, EQUIPMENT AND TOOLS TO PERFORM ELECTRICAL WORK SHOWN, NOTED OR SCHEDULED FOR A COMPLETE

PROVIDE INTERIOR TYPE 4-D PLYWOOD 24" X 24" TO SERVE AS

17.1. THE WORD "PROVIDE" AS USED HEREIN MEANS TO FURNISH AND INSTALL COMPLETE.

AND FINISHED INSTALLATION.

- 17.2. MATERIALS, PRODUCTS AND EQUIPMENT, INCLUDING COMPONENTS THEREOF, SHALL BE NEW AND SUCH AS APPEARS ON THE UNDERWRITER'S LABORATORY LIST OF APPROVED ITEMS AND SHALL MEET THE REQUIREMENTS OF RECOGNIZED STANDARDS.
- 17.3. EQUIPMENT SHALL BE SIZED IN CONFORMITY WITH REQUIREMENTS OF THE NATIONAL ELECTRICAL CODE AND OTHER APPLICABLE CODES.
- 18. CONDUIT SHALL BE STANDARD STEEL, RIGID, IMC OR EMT (THIN WALL)
 ACCORDING TO CODE REQUIREMENTS. CONDUIT SHALL BE CONCEALED IN
 FINISHED AREAS, EXCEPT AS OTHERWISE APPROVED BY OWNER'S
 REPRESENTATIVE.
- 19. SURFACE RACEWAYS SHALL BE METAL TYPE OF THE SIZE AND CHANNEL REQUIRED FOR SERVICE, CONSTRUCTED OF GALVANIZED STEEL WITH SNAP-ON COVERS, WITH 1/8" MOUNTING SCREW KNOCKOUTS IN BASE APPROXIMATELY 8" O.C. PROVIDE FITTINGS INDICATED WHICH MATCH AND MATE WITH RACEWAY. FINISH WITH MANUFACTURER'S
- STANDARD PRIME COATING SUITABLE FOR PAINTING.

 20. ALL CONDUCTORS SHALL BE SOFT DRAWN, ANNEALED COPPER, WITH 600V INSULATION:
- 20.1. #10 AND SMALLER SOLID WITH SINGLE BRAID.

 # 8 AND LARGER STRANDED WITH AT LEAST DOUBLE BRAID.
- MINIMUM WIRE SIZE SHALL BE #12, EXCEPT #14 MAY BE USED FOR CONTROL APPLICATIONS.
- 20.2. ALL WIRE AND CABLE SHALL BE NEW AND SHALL BE BROUGHT TO THE SITE IN UNBROKEN PACKAGES.
- 20.3. GENERAL WIRING SHALL HAVE THW, THHN OR THWN INSULATION.
- 20.4. ALUMINUM CONDUCTORS ARE NOT PERMITTED FOR BRANCH CIRCUIT WIRING.
- 20.5. WIRES SHALL BE COLOR CODED IN KEEPING WITH NEC STANDARDS

 21. OUTLET BOXES AND COVERS SHALL BE ONE PIECE, GALVANIZED OR
- SHERARDIZED STEEL, KNOCK-OUT TYPE W/FIXTURE STUDS AS REQ. JUNCTION BOXES, PULL BOXES AND COVERS SHALL BE GALVANIZED STEEL, CODE GAUGE AND SIZE.

22. WRING DEVICES: WALL SWITCHES, SINGLE POLE, DOUBLE POLE, AND THREE WAY SHALL BE GENERAL DUTY, FLUSH, TOGGLE SWITCHES; SPECIFICATION GRADE, 20A, 120/277V, WITH SCREW TERMINALS: MANUFACTURERS SHALL BE HUBBELL, BRYANT, PASS AND SEYMORE, OR

GENERAL DUTY DUPLEX RECEPTACLES SHALL BE 2-POLE, 3-WRE GROUNDING TYPE, SPECIFICATION GRADE, 20A, 125V, NEMA 5-20R UNLESS OTHERWISE INDICATED, MANUFACTURES SHALL BE HUBBELL, BRYANT, PASS AND SEYMORE, OR LEVITRON.

GROUND FAULT INTERRUPTER RECEPTACLE SHALL BE GENERAL DUTY, DUPLEX RECEPTACLES, GROUND FAULT CIRCUIT INTERRUPTER, FEED THROUGH TYPE, CAPABLE OF PROTECTING CONNECTED DOWNSTREAM RECEPTACLES ON A SINGLE CIRCUIT, GROUNDING TYPE UL-RATED CLASS A, GROUP 1, 20A, 120V, 60 HZ; WITH SOLID-STATE GROUND FAULT SENSING AND SIGNALING; WITH 5 MILLIAMPERES GROUND- FAULT TRIP LEVEL; IN NEMA 5-15R CONFIGURATION. MANUFACTURERS SHALL BE HUBBELL, BRYANT, PASS AND SEYMORE, OR LEVITRON.

DUPLEX ISOLATED GROUND TYPE RECEPTACLE SHALL BE 2-POLE, 4-WIRE, 15A STRAIGHT BLADE DEVICE WITH SEPARATE ISOLATED GROUND AND BUILDING GROUND CONNECTIONS, IN NEMA 5-15R CONFIGURATION, AS MANUFACTURED BY HUBBELL IG-5362.

TELEPHONE OUTLET COVER SHALL BE SIERRA #P-12.

WIRING DEVICE ACCESSORIES INCLUDING ALL WALL PLATES SHALL BE PROVIDED AT EACH DEVICE. WALL PLATES SHALL BE SAME COLOR AS DEVICE AND MANUFACTURED AS A COMPANION TO THE DEVICE MOUNTING HEIGHTS OF DEVICES SHALL BE TO THE FOLLOWING CENTERLINES:

TOGGLE SWITCHES 4'-0"
RECEPTACLES 1'-6"
WALL TELEPHONE OUTLETS 4'-0"
DISCONNECT SWITCHES 5'-6"
PANELBOARDS 5'-0"

23. THIS CONTRACTOR SHALL PROVIDE, INSTALL AND CONNECT A COMPLETE SYSTEM OF GROUNDING FOR ALL EQUIPMENT AND STRUCTURES. A GOOD MECHANICAL AND ELECTRICAL CONNECTION SHALL BE MADE WITH APPROVED GROUNDING CONNECTORS.

ELECTRICAL SYSTEM AND EQUIPMENT GROUNDS SHALL COMPLY WITH ALL LOCAL, STATE AND NEC CODES AND REGULATIONS.

PANELS, CONDUIT SYSTEMS, MOTOR FRAMES, LIGHTING FIXTURES AND OTHER EQUIPMENT THAT ARE A PART OF THIS INSTALLATION SHALL BE SECURELY GROUNDED BOTH MECHANICALLY AND ELECTRICALLY IN ACCORDANCE WITH ALL CODES.

MAIN GROUNDING SYSTEM SHALL BE SIZED TO CONFORM WITH SECTION 250, TABLE 250-94 OF THE NATIONAL ELECTRICAL CODE. PROVIDE CONDUIT TO PROTECT GROUND WIRE FROM DAMAGE TO AN AREA 6 FT. ABOVE FLOOR.

MAKE ALL JOINTS AND CONNECTIONS OF THE CONDUIT SYSTEM TIGHT TO MAINTAIN CONTINUITY OF MECHANICAL AND ELECTRICAL GROUND THROUGHOUT ENTIRE SYSTEM.

GROUND ALL 3 WIRE RECEPTACLES TO THE OUTLET BOXES.

GROUND NEUTRAL FROM THE TRANSFORMER CONNECTED TO WATER LINE

GROUND CONDUCTOR SHALL BE SUPPLIED IN ALL NON-METALLIC

24. PANELBOARDS SHALL BE 3-PHASE, 4-WIRE DISTRIBUTED PHASE TYPE WITH SOLID NEUTRAL GROUND LUG, GROUND BUS AND NUMBER OF CIRCUIT BREAKERS AS SHOWN ON THE PANEL SCHEDULE. BUSWAYS SHALL BE HARD DRAWN COPPER. CABINET SHALL BE CONSTRUCTED OF CODE GAUGE STEEL WITH HINGED DOOR HAVING DIRECTORY CARD, NEATLY AND PROPERLY INSCRIBED AND SET IN FRAME WITH TRANSPARENT COVER.

ALL BREAKERS SHALL BE BOLTED TYPE, THERMAL MAGNETIC WITH ALL TWO OR THREE POLE BREAKERS HAVING COMMON TRIP. CIRCUIT BREAKERS SHALL BE RATED FOR MINIMUM 10,000 AMP SYMMETRICAL SHORT CIRCUIT CURRENT AT 120/208V AND 14,000 AMP FOR 277/480V

CIRCUIT BREAKERS SERVING LIGHTING CIRCUITS SHALL BE RATED FOR SWITCH SERVICE.

PANELBOARDS AND BREAKERS SHALL BE AS MANUFACTURED BY SQUARE-D OR EQUAL.

PANEL SHALL BE CIRCUITED SO THAT THE LOAD IS DISTRIBUTED EVENLY ACROSS ALL THREE PHASES.

25. PROVIDE SAFETY AND DISCONNECT SWITCHES, FUSED OR NON-FUSED, AS CALLED FOR ON DRAWING AND AS REQUIRED BY CODE. SWITCHES SHALL BE HEAVY DUTY, LOAD AND HORSEPOWER RATED AS MANUFACTURED BY SQUARE-D, GENERAL ELECTRIC, OR EQUAL. SWITCH ENCLOSURE TO BE SUITABLE FOR APPLICATION.

FURNISH AND INSTALL DUAL ELEMENT CURRENT LIMITING FUSES OF TYPE AND AMPACITY DESIGNED TO PROTECT SYSTEM AGAINST AVAILABLE SHORT CIRCUIT FAULT CURRENT.

26. PROVIDE TRANSIENT VOLTAGE SURGE SUPPRESSION (TVSS) SYSTEM FOR MAIN PANEL MDP.

SYSTEM TO BE AS MANUFACTURED BY INTERMATIC, PG100 SERIES OR APPROVED EQUIVALENT.

27. LIGHTING FIXTURES:
THE CONTRACTOR SHALL PROVIDE A NEW LIGHTING FIXTURE OF THE
TYPE SPECIFIED FOR EACH LIGHTING OUTLET SHOWN WITH COMPLETE
LAMPS OR TUBES. ALL FIXTURES SHALL BE HUNG AND MOUNTED IN

PLACE, PROPERLY WIRED, TESTED AND LEFT READY FOR OPERATION.

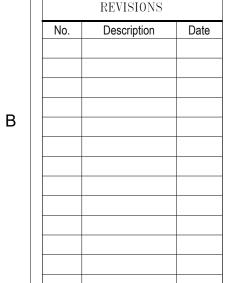
28. PAINTING OF ELECTRICAL CONDUITS, ETC., IF REQUIRED, WILL BE BY GENERAL CONTRACTOR.

FINALL Y:

IT IS THE INTENT THAT THE FOREGOING WORK SHALL BE COMPLETE IN EVERY RESPECT AND THAT ANY MATERIAL OR WORK NOT SPECIFICALLY MENTIONED OR SHOWN ON THE DRAWINGS, BUT NECESSARY TO FULLY COMPLETE THE WORK SHALL BE FURNISHED.

THE LOCATION OF RECEPTACLES AND FIXTURES SHOWN ON THE DRAWING IS APPROXIMATE AND THE OWNER SHALL HAVE THE RIGHT TO RELOCATE ANY RECEPTACLES OR FIXTURES BEFORE THEY ARE INSTALLED WITHOUT ADDITIONAL COST.

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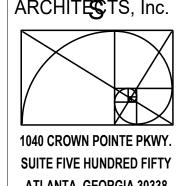
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L LEGEND/SPECS

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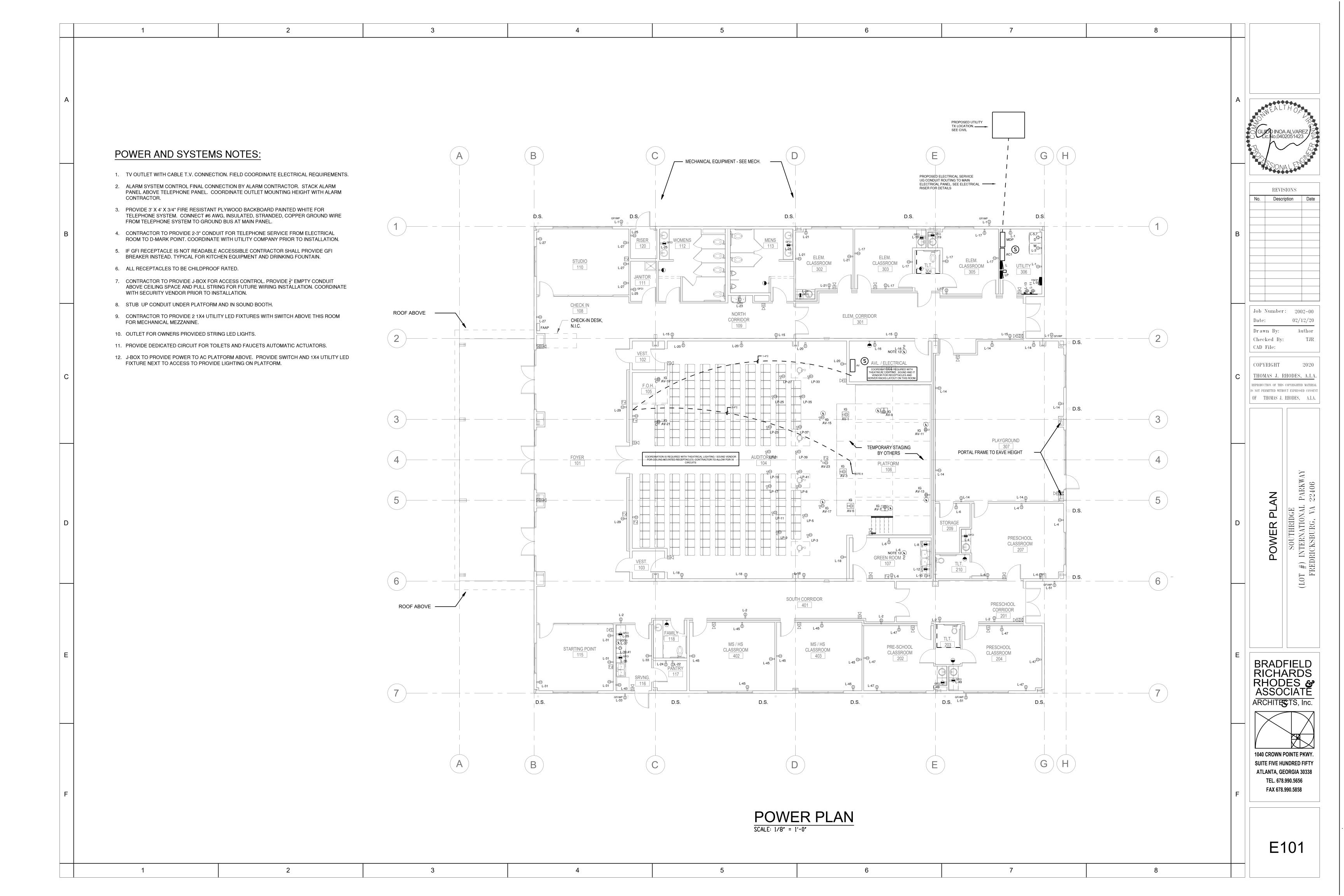
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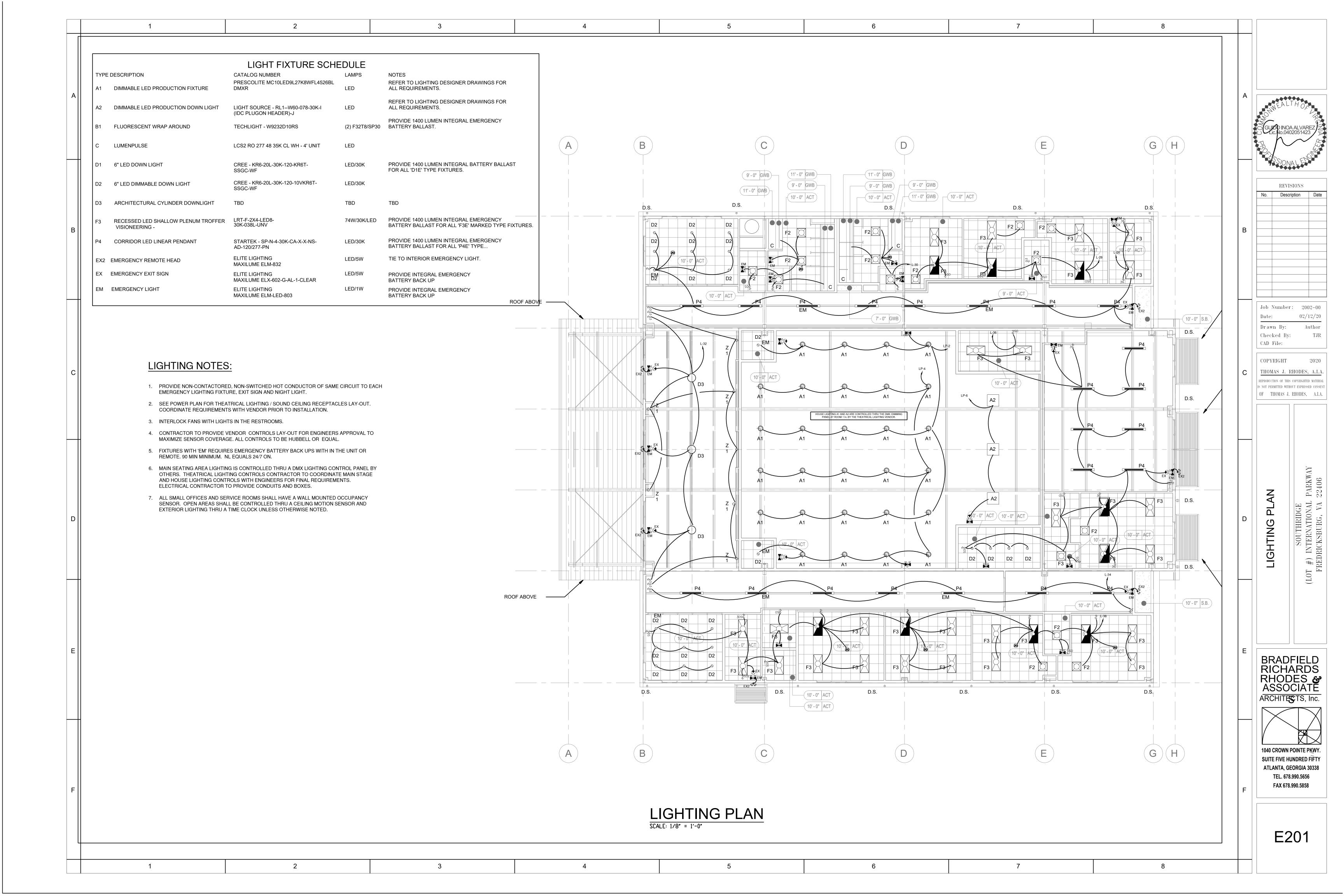
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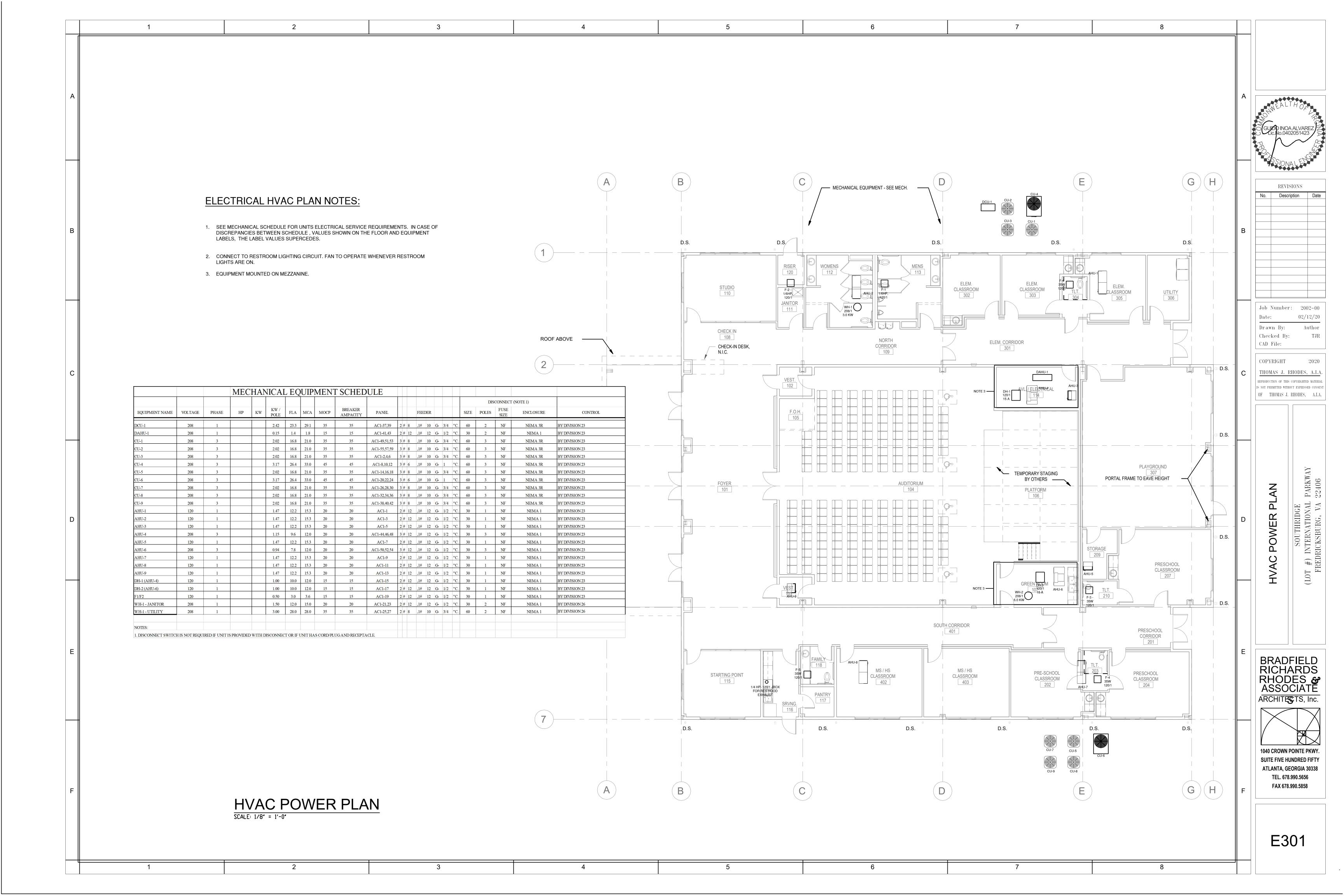


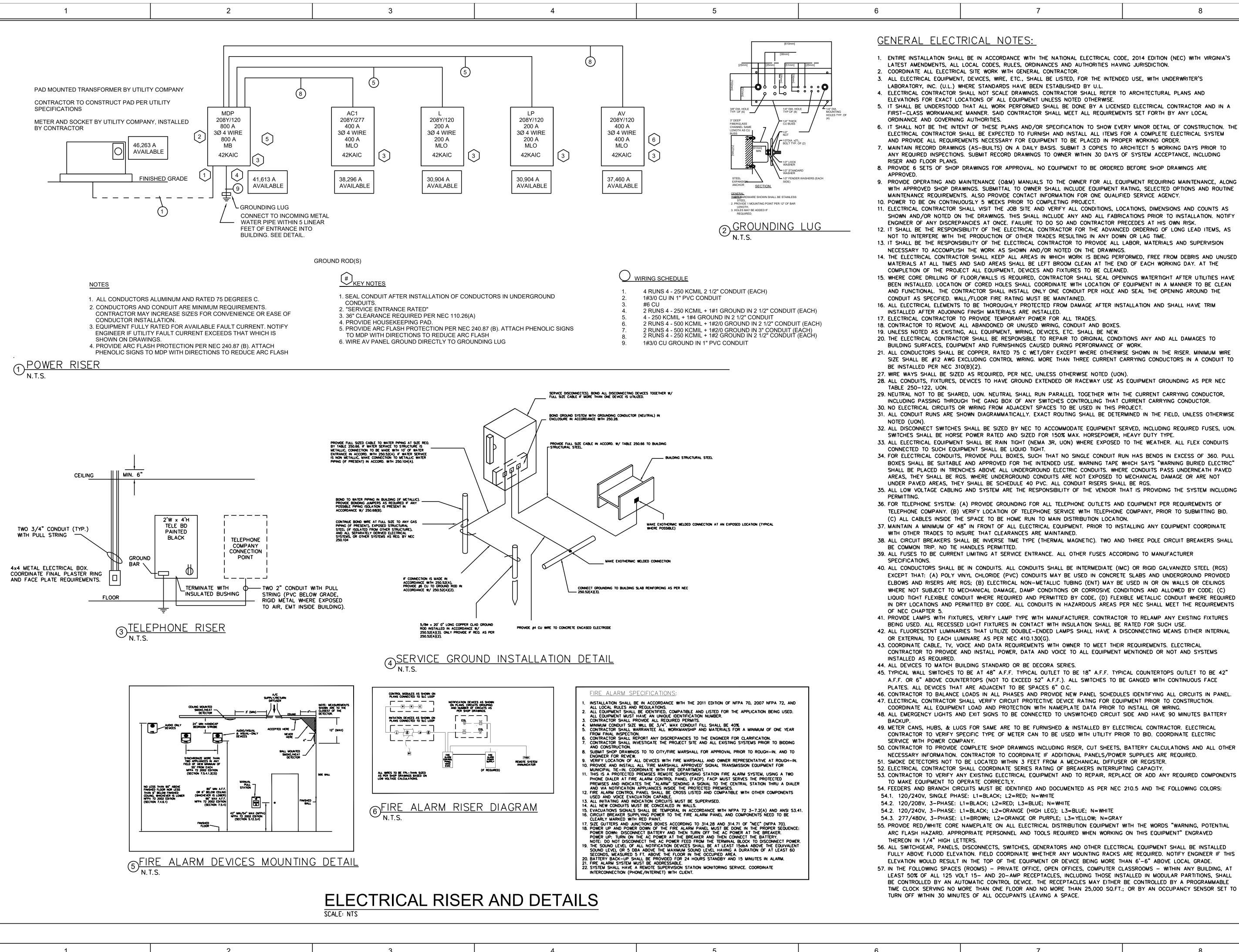
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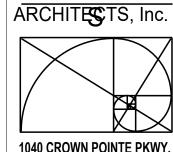
- 1. ENTIRE INSTALLATION SHALL BE IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE, 2014 EDITION (NEC) WITH VIRGINIA'S LATEST AMENDMENTS, ALL LOCAL CODES, RULES, ORDINANCES AND AUTHORITIES HAVING JURISDICTION.
- 3. ALL ELECTRICAL EQUIPMENT, DEVICES, WIRE, ETC., SHALL BE LISTED, FOR THE INTENDED USE, WITH UNDERWRITER'S
- LABORATORY, INC. (U.L.) WHERE STANDARDS HAVE BEEN ESTABLISHED BY U.L.
- ELEVATIONS FOR EXACT LOCATIONS OF ALL EQUIPMENT UNLESS NOTED OTHERWISE. 5. IT SHALL BE UNDERSTOOD THAT ALL WORK PERFORMED SHALL BE DONE BY A LICENSED ELECTRICAL CONTRACTOR AND IN A FIRST-CLASS WORKMANLIKE MANNER. SAID CONTRACTOR SHALL MEET ALL REQUIREMENTS SET FORTH BY ANY LOCAL
- 6. IT SHALL NOT BE THE INTENT OF THESE PLANS AND/OR SPECIFICATION TO SHOW EVERY MINOR DETAIL OF CONSTRUCTION. THE ELECTRICAL CONTRACTOR SHALL BE EXPECTED TO FURNISH AND INSTALL ALL ITEMS FOR A COMPLETE ELECTRICAL SYSTEM
- AND PROVIDE ALL REQUIREMENTS NECESSARY FOR EQUIPMENT TO BE PLACED IN PROPER WORKING ORDER 7. MAINTAIN RECORD DRAWINGS (AS-BUILTS) ON A DAILY BASIS. SUBMIT 3 COPIES TO ARCHITECT 5 WORKING DAYS PRIOR TO ANY REQUIRED INSPECTIONS. SUBMIT RECORD DRAWINGS TO OWNER WITHIN 30 DAYS OF SYSTEM ACCEPTANCE, INCLUDING
- 8. PROVIDE 6 SETS OF SHOP DRAWINGS FOR APPROVAL. NO EQUIPMENT TO BE ORDERED BEFORE SHOP DRAWINGS ARE
- 9. PROVIDE OPERATING AND MAINTENANCE (O&M) MANUALS TO THE OWNER FOR ALL EQUIPMENT REQUIRING MAINTENANCE, ALONG WITH APPROVED SHOP DRAWINGS. SUBMITTAL TO OWNER SHALL INCLUDE EQUIPMENT RATING, SELECTED OPTIONS AND ROUTINE MAINTENANCE REQUIREMENTS. ALSO PROVIDE CONTACT INFORMATION FOR ONE QUALIFIED SERVICE AGENCY.
- 10. POWER TO BE ON CONTINUOUSLY 5 WEEKS PRIOR TO COMPLETING PROJECT. 11. ELECTRICAL CONTRACTOR SHALL VISIT THE JOB SITE AND VERIFY ALL CONDITIONS, LOCATIONS, DIMENSIONS AND COUNTS AS
- ENGINEER OF ANY DISCREPANCIES AT ONCE. FAILURE TO DO SO AND CONTRACTOR PRECEDES AT HIS OWN RISK. 12. IT SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR FOR THE ADVANCED ORDERING OF LONG LEAD ITEMS. AS
- NOT TO INTERFERE WITH THE PRODUCTION OF OTHER TRADES RESULTING IN ANY DOWN OR LAG TIME. 13. IT SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR TO PROVIDE ALL LABOR, MATERIALS AND SUPERVISION NECESSARY TO ACCOMPLISH THE WORK AS SHOWN AND/OR NOTED ON THE DRAWINGS.
- MATERIALS AT ALL TIMES AND SAID AREAS SHALL BE LEFT BROOM CLEAN AT THE END OF EACH WORKING DAY. AT THE COMPLETION OF THE PROJECT ALL EQUIPMENT, DEVICES AND FIXTURES TO BE CLEANED.
- BEEN INSTALLED. LOCATION OF CORED HOLES SHALL COORDINATE WITH LOCATION OF EQUIPMENT IN A MANNER TO BE CLEAN AND FUNCTIONAL. THE CONTRACTOR SHALL INSTALL ONLY ONE CONDUIT PER HOLE AND SEAL THE OPENING AROUND THE
- 16. ALL ELECTRICAL ELEMENTS TO BE THOROUGHLY PROTECTED FROM DAMAGE AFTER INSTALLATION AND SHALL HAVE TRIM
- 18. CONTRACTOR TO REMOVE ALL ABANDONED OR UNUSED WIRING, CONDUIT AND BOXES.
- 19. UNLESS NOTED AS EXISTING, ALL EQUIPMENT, WIRING, DEVICES, ETC. SHALL BE NEW.
- 20. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE TO REPAIR TO ORIGINAL CONDITIONS ANY AND ALL DAMAGES TO BUILDING SURFACES, EQUIPMENT AND FURNISHINGS CAUSED DURING PERFORMANCE OF WORK.
- 21. ALL CONDUCTORS SHALL BE COPPER, RATED 75 C WET/DRY EXCEPT WHERE OTHERWISE SHOWN IN THE RISER. MINIMUM WIRE SIZE SHALL BE #12 AWG EXCLUDING CONTROL WIRING. MORE THAN THREE CURRENT CARRYING CONDUCTORS IN A CONDUIT TO
- 27. WIRE WAYS SHALL BE SIZED AS REQUIRED, PER NEC, UNLESS OTHERWISE NOTED (UON). 28. ALL CONDUITS, FIXTURES, DEVICES TO HAVE GROUND EXTENDED OR RACEWAY USE AS EQUIPMENT GROUNDING AS PER NEC
- 29. NEUTRAL NOT TO BE SHARED, UON. NEUTRAL SHALL RUN PARALLEL TOGETHER WITH THE CURRENT CARRYING CONDUCTOR,
- INCLUDING PASSING THROUGH THE GANG BOX OF ANY SWITCHES CONTROLLING THAT CURRENT CARRYING CONDUCTOR.
- 30. NO ELECTRICAL CIRCUITS OR WIRING FROM ADJACENT SPACES TO BE USED IN THIS PROJECT. 31. ALL CONDUIT RUNS ARE SHOWN DIAGRAMMATICALLY. EXACT ROUTING SHALL BE DETERMINED IN THE FIELD, UNLESS OTHERWISE
- 32. ALL DISCONNECT SWITCHES SHALL BE SIZED BY NEC TO ACCOMMODATE EQUIPMENT SERVED, INCLUDING REQUIRED FUSES, UON.
- SWITCHES SHALL BE HORSE POWER RATED AND SIZED FOR 150% MAX. HORSEPOWER, HEAVY DUTY TYPE. 33. ALL ELECTRICAL EQUIPMENT SHALL BE RAIN TIGHT (NEMA 3R, UON) WHERE EXPOSED TO THE WEATHER. ALL FLEX CONDUITS
- 34. FOR ELECTRICAL CONDUITS, PROVIDE PULL BOXES, SUCH THAT NO SINGLE CONDUIT RUN HAS BENDS IN EXCESS OF 360. PULL BOXES SHALL BE SUITABLE AND APPROVED FOR THE INTENDED USE. WARNING TAPE WHICH SAYS "WARNING BURIED ELECTRIC" SHALL BE PLACED IN TRENCHES ABOVE ALL UNDERGROUND ELECTRIC CONDUITS. WHERE CONDUITS PASS UNDERNEATH PAVED AREAS, THEY SHALL BE RGS. WHERE UNDERGROUND CONDUITS ARE NOT EXPOSED TO MECHANICAL DAMAGE OR ARE NOT UNDER PAVED AREAS, THEY SHALL BE SCHEDULE 40 PVC. ALL CONDUIT RISERS SHALL BE RGS.
- 35. ALL LOW VOLTAGE CABLING AND SYSTEM ARE THE RESPONSIBILITY OF THE VENDOR THAT IS PROVIDING THE SYSTEM INCLUDING
- 36. FOR TELEPHONE SYSTEM: (A) PROVIDE GROUNDING FOR ALL TELEPHONE OUTLETS AND EQUIPMENT PER REQUIREMENTS OF TELEPHONE COMPANY. (B) VERIFY LOCATION OF TELEPHONE SERVICE WITH TELEPHONE COMPANY, PRIOR TO SUBMITTING BID.
- 37. MAINTAIN A MINIMUM OF 48" IN FRONT OF ALL ELECTRICAL EQUIPMENT. PRIOR TO INSTALLING ANY EQUIPMENT COORDINATE
- 38. ALL CIRCUIT BREAKERS SHALL BE INVERSE TIME TYPE (THERMAL MAGNETIC). TWO AND THREE POLE CIRCUIT BREAKERS SHALL
- 40. ALL CONDUCTORS SHALL BE IN CONDUITS. ALL CONDUITS SHALL BE INTERMEDIATE (IMC) OR RIGID GALVANIZED STEEL (RGS) EXCEPT THAT: (A) POLY VINYL CHLORIDE (PVC) CONDUITS MAY BE USED IN CONCRETE SLABS AND UNDERGROUND PROVIDED ELBOWS AND RISERS ARE RGS; (B) ELECTRICAL NON-METALLIC TUBING (ENT) MAY BE USED IN OR ON WALLS OR CEILINGS WHERE NOT SUBJECT TO MECHANICAL DAMAGE, DAMP CONDITIONS OR CORROSIVE CONDITIONS AND ALLOWED BY CODE; (C) LIQUID TIGHT FLEXIBLE CONDUIT WHERE REQUIRED AND PERMITTED BY CODE, (D) FLEXIBLE METALLIC CONDUIT WHERE REQUIRED
- 41. PROVIDE LAMPS WITH FIXTURES, VERIFY LAMP TYPE WITH MANUFACTURER. CONTRACTOR TO RELAMP ANY EXISTING FIXTURES BEING USED. ALL RECESSED LIGHT FIXTURES IN CONTACT WITH INSULATION SHALL BE RATED FOR SUCH USE.
- 42. ALL FLUORESCENT LUMINARIES THAT UTILIZE DOUBLE-ENDED LAMPS SHALL HAVE A DISCONNECTING MEANS EITHER INTERNAL OR EXTERNAL TO EACH LUMINARE AS PER NEC 410.130(G). 43. COORDINATE CABLE, TV, VOICE AND DATA REQUIREMENTS WITH OWNER TO MEET THEIR REQUIREMENTS. ELECTRICAL
- 44. ALL DEVICES TO MATCH BUILDING STANDARD OR BE DECORA SERIES. 45. TYPICAL WALL SWITCHES TO BE AT 48" A.F.F. TYPICAL OUTLET TO BE 18" A.F.F. TYPICAL COUNTERTOPS OUTLET TO BE 42"
- A.F.F. OR 6" ABOVE COUNTERTOPS (NOT TO EXCEED 52" A.F.F.). ALL SWITCHES TO BE GANGED WITH CONTINUOUS FACE PLATES. ALL DEVICES THAT ARE ADJACENT TO BE SPACES 6" O.C.
- 47. ELECTRICAL CONTRACTOR SHALL VERIFY CIRCUIT PROTECTIVE DEVICE RATING FOR EQUIPMENT PRIOR TO CONSTRUCTION. COORDINATE ALL EQUIPMENT LOAD AND PROTECTION WITH NAMEPLATE DATA PRIOR TO INSTALL OR WIRING.
- 49. METER CANS, HUBS, & LUGS FOR SAME ARE TO BE FURNISHED & INSTALLED BY ELECTRICAL CONTRACTOR. ELECTRICAL CONTRACTOR TO VERIFY SPECIFIC TYPE OF METER CAN TO BE USED WITH UTILITY PRIOR TO BID. COORDINATE ELECTRIC
- 50. CONTRACTOR TO PROVIDE COMPLETE SHOP DRAWINGS INCLUDING RISER, CUT SHEETS, BATTERY CALCULATIONS AND ALL OTHER
- NECESSARY INFORMATION. CONTRACTOR TO COORDINATE IF ADDITIONAL PANELS/POWER SUPPLIES ARE REQUIRED. 51. SMOKE DETECTORS NOT TO BE LOCATED WITHIN 3 FEET FROM A MECHANICAL DIFFUSER OR REGISTER.
- 52. ELECTRICAL CONTRACTOR SHALL COORDINATE SERIES RATING OF BREAKERS INTERRUPTING CAPACITY. 53. CONTRACTOR TO VERIFY ANY EXISTING ELECTRICAL EQUIPMENT AND TO REPAIR, REPLACE OR ADD ANY REQUIRED COMPONENTS
- 54. FEEDERS AND BRANCH CIRCUITS MUST BE IDENTIFIED AND DOCUMENTED AS PER NEC 210.5 AND THE FOLLOWING COLORS:
- 54.2. 120/240V, 3-PHASE: L1=BLACK; L2=ORANGE (HIGH LEG); L3=BLUE; N=WHITE
- 54.3. 277/480V, 3-PHASE: L1=BROWN; L2=ORANGE OR PURPLE; L3=YELLOW; N=GRAY
- 55. PROVIDE RED/WHITE CORE NAMEPLATE ON ALL ELECTRICAL DISTRIBUTION EQUIPMENT WITH THE WORDS "WARNING, POTENTIAL ARC FLASH HAZARD. APPROPRIATE PERSONNEL AND TOOLS REQUIRED WHEN WORKING ON THIS EQUIPMENT" ENGRAVED
- 56. ALL SWITCHGEAR, PANELS, DISCONNECTS, SWITCHES, GENERATORS AND OTHER ELECTRICAL EQUIPMENT SHALL BE INSTALLED FULLY ABOVE FLOOD ELEVATION. FIELD COORDINATE WHETHER ANY MOUNTING RACKS ARE REQUIRED. NOTIFY ENGINEER IF THIS ELEVATION WOULD RESULT IN THE TOP OF THE EQUIPMENT OR DEVICE BEING MORE THAN 6'-6" ABOVE LOCAL GRADE.
- 57. IN THE FOLLOWING SPACES (ROOMS) PRIVATE OFFICE, OPEN OFFICES, COMPUTER CLASSROOMS WITHIN ANY BUILDING, AT LEAST 50% OF ALL 125 VOLT 15- AND 20-AMP RECEPTACLES, INCLUDING THOSE INSTALLED IN MODULAR PARTITIONS, SHALL BE CONTROLLED BY AN AUTOMATIC CONTROL DEVICE. THE RECEPTACLES MAY EITHER BE CONTROLLED BY A PROGRAMMABLE TIME CLOCK SERVING NO MORE THAN ONE FLOOR AND NO MORE THAN 25,000 SQ.FT.; OR BY AN OCCUPANCY SENSOR SET TO TURN OFF WITHIN 30 MINUTES OF ALL OCCUPANTS LEAVING A SPACE.

REVISIONS Description

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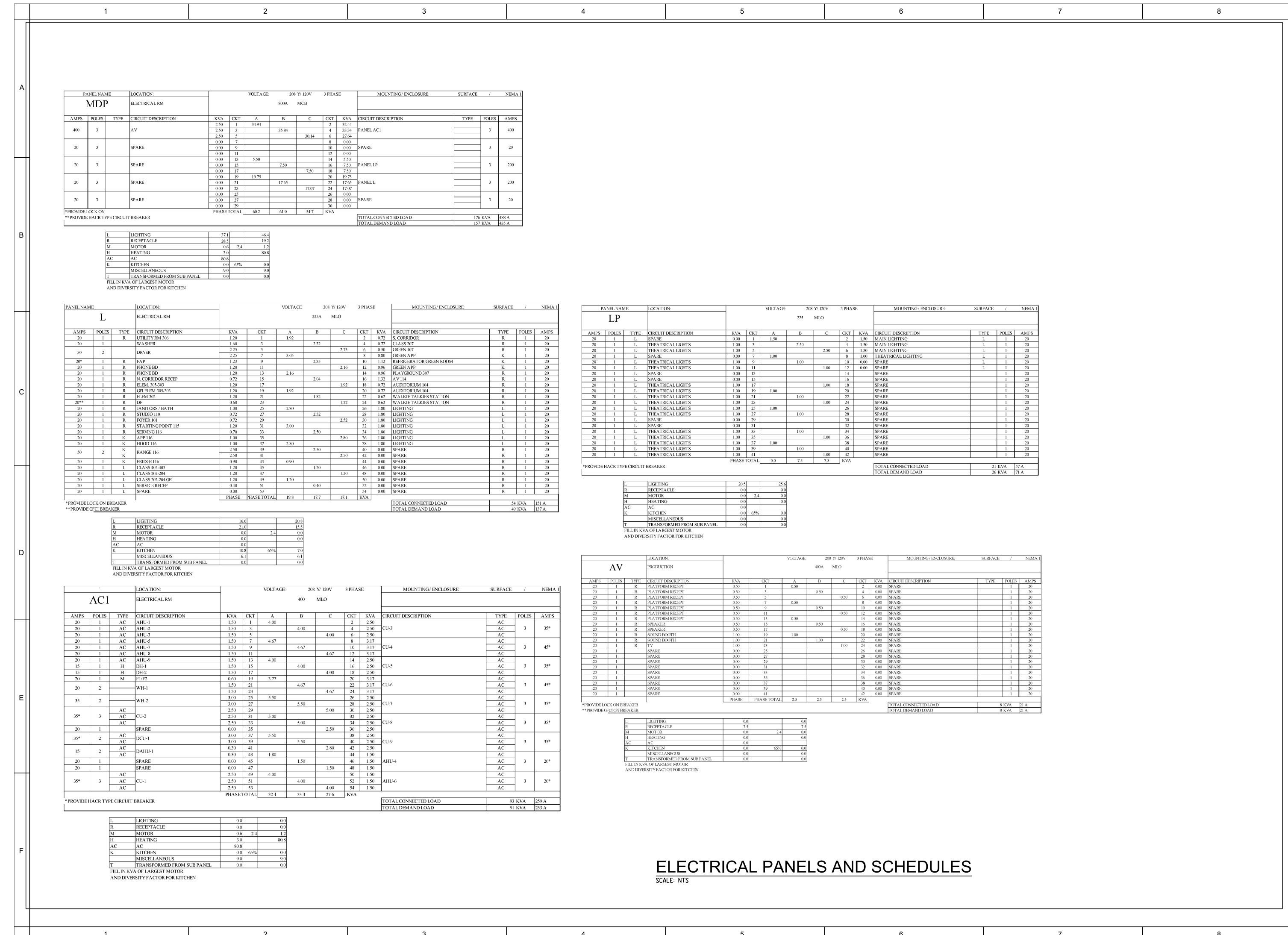
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No. Description Date

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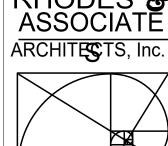
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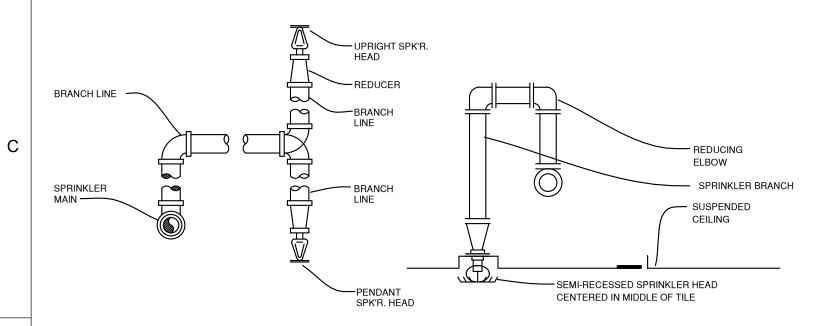


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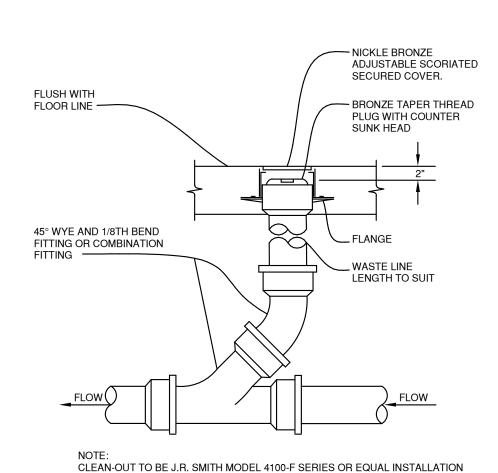
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SPRINKLER RISER DETAIL-LOCAL FDC

NOTE: DETAIL IS GENERIC FOR A TYPICAL RISER SYSTEM
ACTUAL RISER SHOP DRAWING BY SPRINKLER SUB-CONTRACTOR

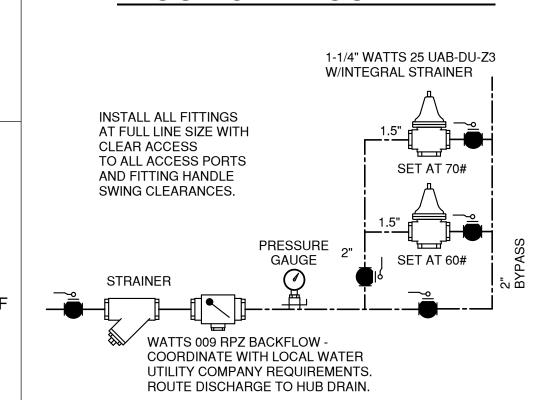


SPRINKLER HEAD DETAIL



FLOOR CLEANOUT DETAIL

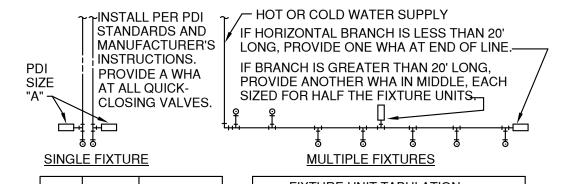
SHALL BE FLUSH WITH SURROUNDING FLOOR SURFACES.



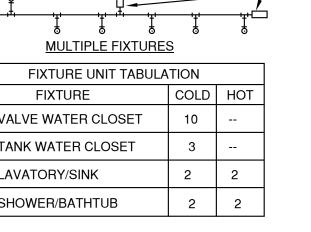
2" WATER SERVICE DETAIL

SPRINKLER NOTES

- 1. BIDDING CONTRACTORS MUST REVIEW ALL DRAWINGS, CONSTRUCTION DOCUMENTS AND SPECIFICATION PRIOR TO BID.
- 2. FIRE SPRINKLER CONTRACTOR'S START POINT SHALL BE AT THE 4" PIPING MAIN SERVING THIS AREA, REUSING EXISTING MAINS AND BRANCHES WHERE POSSIBLE AND PROVIDING NEW BRANCHES AS REQUIRED FOR NEW HEAD LAYOUT.
- 3. SELECTED CONTRACTOR SHALL PREPARE FIRE SPRINKLER SHOP DRAWINGS AND HYDRAULIC CALCULATIONS IN ACCORDANCE WITH NFPA 13, AND FIRE SPRINKLER SPECIFICATION. FIRE SPRINKLER CONTRACTOR SHALL CONFIRM THE OCCUPANCY OF EACH SPACE PRIOR TO START OF WORK TO DETERMINE THE OCCUPANCY CLASSIFICATION. DRAWINGS SHALL BE SUBMITTED TO THE AUTHORITY HAVING JURISDICTION, THE ARCHITECT AND THE OWNER'S FIRE PROTECTION CONSULTANT FOR REVIEW AND APPROVAL. FABRICATION AND INSTALLATION SHALL NOT COMMENCE WITHOUT WRITTEN AUTHORIZATION FROM THE OWNER PRIOR TO OBTAINING APPROVED SHOP DRAWINGS. CONTRACTOR IS RESPONSIBLE FOR OBTAINING A CURRENT FLOW TEST FOR THE HYDRAULIC CALCULATIONS.
- 4. DESIGN, MATERIALS, AND INSTALLATION SHALL CONFORM TO THE APPLICABLE CODES AS SHOWN, THE LOCAL FIRE DEPARTMENT (AHJ), THE OWNER'S INSURANCE CARRIER, TRUSS MANUFACTURER, STRUCTURAL ENGINEER, AND THE OWNER'S REVIEWING CONSULTANT.
- ALL MATERIALS USED SHALL BE UL LISTED AND FM APPROVED.
 SPRINKLER PIPE SHALL BE PER NFPA STANDARDS, ACCORDING TO THEIR LISTINGS. ALL PIPING SHALL HAVE A CORROSION RESISTANT RATIO OF 1.0 OR GREATER. CRIMP TYPE INSTALLATIONS ARE NOT ACCEPTABLE.
- 7. CONTRACTOR TO PROVIDE ACCESS PANELS FOR ALL VALVES IN CONCEALED SPACES.
- 8. CONTRACTOR TO LABEL ALL SPRINKLER PIPING.
- 9. THE CONSTRUCTION CONTRACTOR AGREES THAT IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, CONSTRUCTION CONTRACTOR SHALL BE REQUIRED TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT, INCLUDING THE SAFETY OF ALL PERSONS AND PROPERTY. THIS REQUIREMENT SHALL BE MADE TO APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS. THE CONSTRUCTION CONTRACTOR FURTHER AGREES TO DEFEND, INDEMNIFY, AND HOLD HARMLESS THE DESIGN PROFESSIONAL FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT.
- 10. THE FIRE PROTECTION ENGINEER OF RECORD SHALL NOT BE RESPONSIBLE FOR THE CONTRACTOR'S FAILURE TO CARRY OUT THE CONSTRUCTION WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS, NOR SHALL THEY BE REQUIRED TO SUPERVISE THE CONDUCT OF THE WORK, THE CONSTRUCTION PROCEDURES FOLLOWED BY RESPECTIVE ANY PERSON OTHER THAN THE ENGINEERING FIRMS EMPLOYEES.
- 11. THE INSTALLING FIRE SPRINKLER CONTRACTOR SHALL PERFORM ALL FIRE PROTECTION AND RELATED SYSTEMS ACCEPTANCE TESTING TO BE WITNESSED BY OWNERS CONSULTANT. TESTING WILL OCCUR AFTER INSTALLATION OF ALL SYSTEMS HAVE BEEN COMPLETED. THE CONTRACTOR SHALL BE REQUIRED TO PROVIDE A LIFT, AIR AND WATER PUMPS FOR SYSTEM PRESSURIZATION, AND ANY NECESSARY HAND TOOLS AND APPARATUS FOR COMPLETE TESTING AND DRAINING OF THE SYSTEMS. ONE TEST OF ALL SYSTEMS SHOULD BE COMPLETED WITHIN (1) DAY. IF ALL OR ANY SYSTEM SHOULD FAIL, THE CONTRACTOR SHALL BE RESPONSIBLE TO BE PRESENT AND FURNISH ALL ITEMS LISTED ABOVE UNTIL SUCH TIME THAT THE SYSTEMS ARE FOUND ACCEPTABLE AND IN ACCORDANCE WITH NFPA 13,, 25, BUILDING AND FIRE CODES (INCLUDING LOCAL ORDINANCES) AND THE BID DOCUMENTS. THE CONTRACTOR IS RESPONSIBLE FOR NOTIFYING OWNERS CONSULTANT WHEN INSTALLATIONS IS COMPLETE AND TESTING MAY BEGIN. PLEASE ALLOW 5-10 WORKING DAYS FOR SCHEDULING.

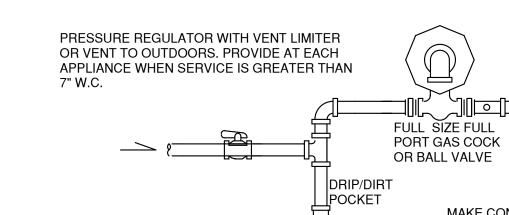


SINGL	SINGLE FIXTURE				
PDI SIZE	PIPE SIZE	FIXTURE UNIT LOAD			
Α	1/2"	1-11		VA	
В	3/4"	12-32		TA	
С	1"	33-60		LA	
D	1-1/4"	61-113		SH	
Е	1-1/2"	114-154			
F	2"	154-330			



DO NOT PROVIDE AIR CHAMBERS. PROVIDE WATER HAMMER ARRESTORS BY SIOUX CHIEF, PRECISION PLUMBING PRODUCTS, WATTS OR APPROVED EQUIVALENT WITH PISTON AND 0-RING CONSTRUCTION, HAVING PDI #WH-201, ASSE # 1010 AND ANSI # A112.26.1M CERTIFICATION. INSTALL IN HORIZONTAL OR VERTICAL POSITION, BUT NEVER UPSIDE DOWN. INSTALL IN LINE WITH WATER FLOW IF POSSIBLE. SIZE THE UNITS AS SHOWN ON THE DRAWINGS AND/OR PER THE TABLES SHOWN ABOVE. SIOUX CHIEF "MINI-RESTER" MAY BE USED AT EACH FIXTURE. PROVIDE ACCESSIBILITY TO "WHA" WHERE REQUIRED BY LOCAL CODE

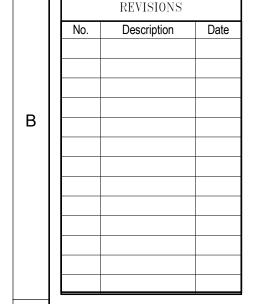
WATER HAMMER ARRESTOR DETAIL



NOTE:
CONTRACTOR SHALL VERIFY ALL GAS FIRED EQUIPMENT
CONNECTION LOCATIONS IN THE FIELD PRIOR TO INSTALLING
ANY GAS PIPE MAINS OR BRANCHES. INSTALL THE GAS TRAIN
SUCH THAT ACCESS PANEL SWINGSHALL NOT BE IMPEDED.

MAKE CONNECTION TO OR APPLIANCE FLEX HOSE QUICK CONNECTION FITTING OR UNIT GAS MANIFOLD INSIDE CABINET WITH GROUND JOINT UNION. PROVIDE GROMMET IN CABINET FOR WATER-TIGHT SEAL FOR HVAC CONNECTIONS.

GAS PIPING EQUIPMENT CONNECTION DETAIL.



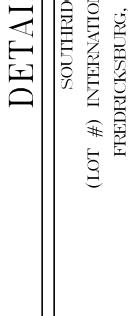
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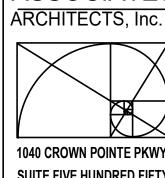
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DETAILS SOUTHRIDGE



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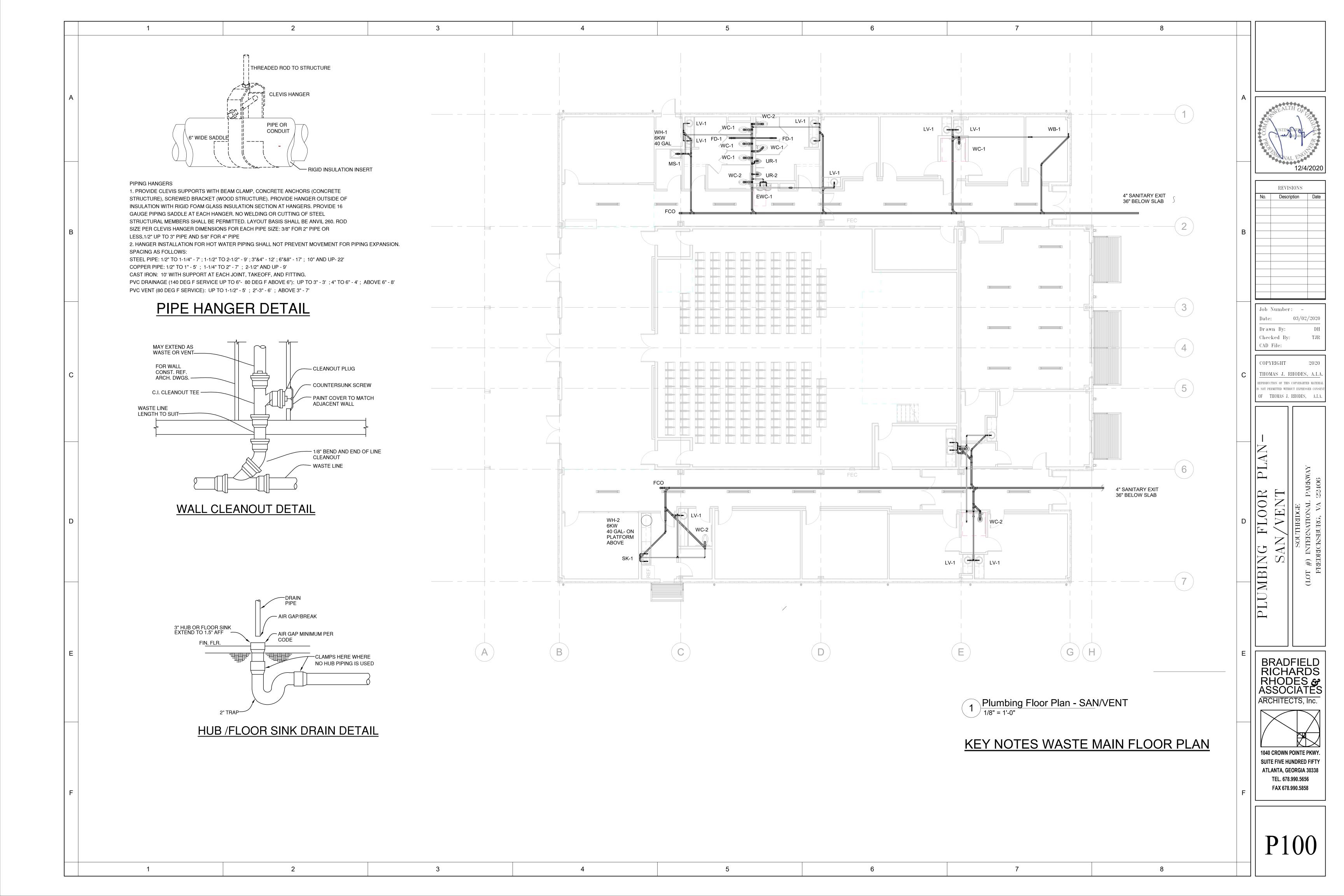
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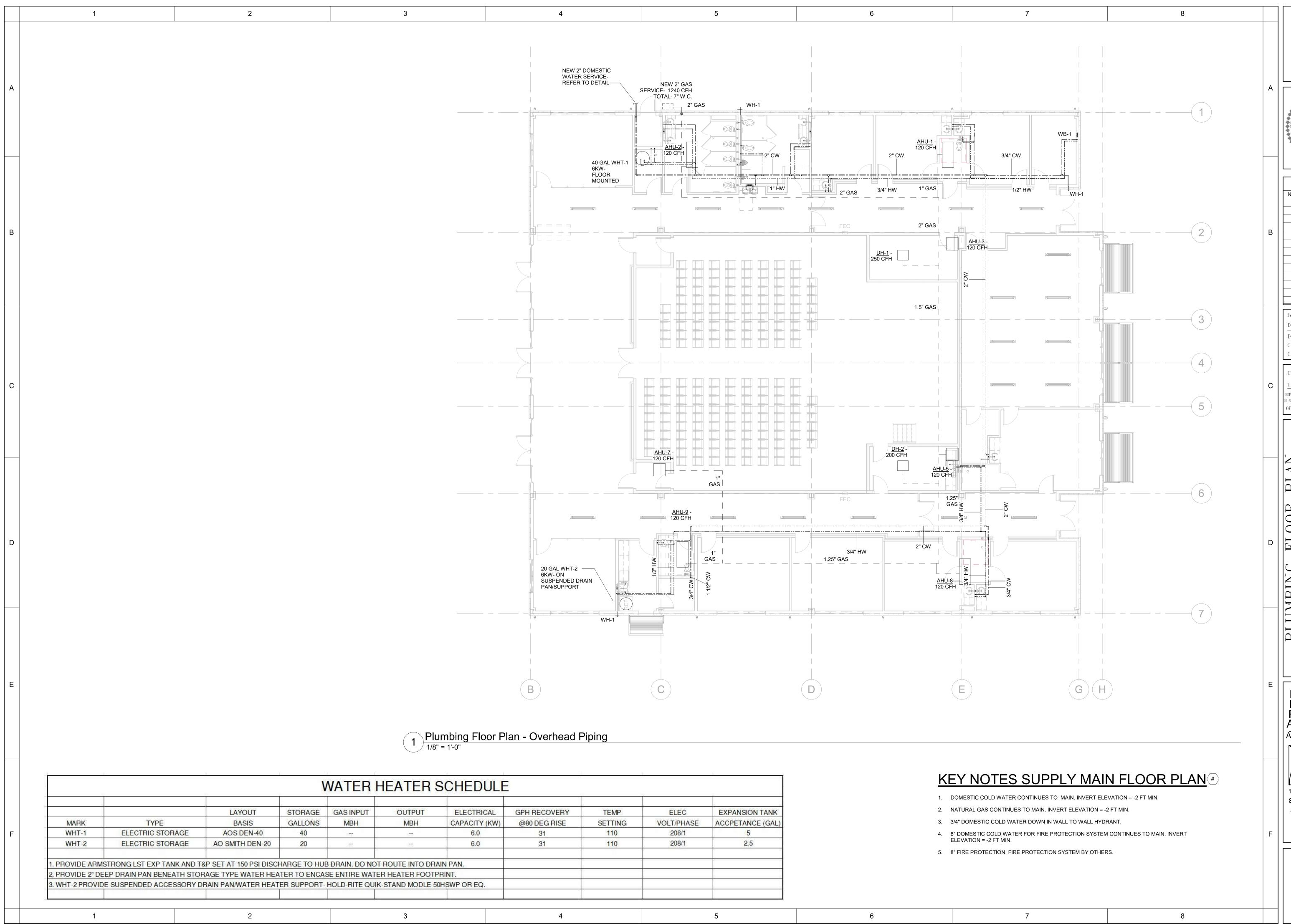
FIXTURE TAG	DRAIN	VENT	CW	HW	FIXTURE DESCRIPTION	FIXTURE SPECIFICATION	VALVE/FACUET SPECIFICATION
WC-1	3	1-1/2"	1-1/4"	-	SLOAN	VITREOUS CHINA, FLOOR MOUNTED SIPHON JET, 1-1/2" TOP SPUD; CENTOCO 500 STSCCSS, EXTRA HEAVY DUTY SOLID PLASTIC,	AUTOMATIC VALVE SLOAN 111-ES
STANDARD FLUSH VALVE TLT	7.500		(1" CON.)		ST-2009	ELONGATED OPEN FRONT SEAT, WHITE, INSTALLED PER ADA REQUIREMENTS, 1,28 GPF	HARDWIRED- NO WALL PLUG OR BATTERY
WC-2 WATER CLOSET ADA	3	1-1/2"	1-1/4"		SLOAN	VITREOUS CHINA, FLOOR MOUNTED SIPHON JET, 1-1/2" TOP SPUD; CENTOCO 500 STSCCSS, EXTRA HEAVY DUTY SOLID PLASTIC, ELONGATED OPEN FRONT SEAT, WHITE. INSTALLED PER ADA REQUIREMENTS, 1,28 GPF INSTALL PER ADA REQUIREMENTS.	AUTOMATIC VALVE SLOAN 111-ES
COMPLIANT			(1" CON.)	100	ST-2029		HARDWIRED- NO WALL PLUG OR BATTERY
UR-1&2	2	1-1/4"	3/4"	100	SLOAN	VITREOUS CHINA, WALL HUNG SIPHON JET WITH FLUSHING RIM, 3/4" TOP SPUD ; JAY R. SMITH 0644 FLOOR CARRIER. MOUNT UR-2 AT	AUTOMATIC FLUSH-HARD WIRED
URINAL	4	2			SU-10055	HANDICAP HEIGHT.	SLOAN ROYAL 180-1.0 ES-S TMO W/ XFORMER
LV-1- WALL LAVATORY	1,5	1.25	0.5	0.5	KOHLER GREENWICH K-2030	VITREOUS CHINA, 20"X18" WALL HUNG 4" CENTERS, WITH OVERFLOW AND GRID DRAIN, JAY R. SMITH 0700-M31 SERIES CARRIER. PROVIDE CHROME PLATED LOOSE KEY ANGLE STOP, ESCUTCHEON, P-TRAP AND SUPPLIES. INSTALLED PER ADA ACCESSIBILITY; TRUEBRO LAV GUARD UNDERSINK PROTECTIVE COVERS FOR P-TRAP AND ANGLE VALVE ASSEMBLIES MODEL 102	AUTOMATIC SLOAN OPTIMA ETF-600 FAUCET 0.5GPM VANDAL RESISTANCE AERATOR CONCELAED HARD-WII WITH XFORMER
MS-1	3	1.5	0.75	0.75	FIAT	ONE PIECE SERVICE BASIN; AND 3.0 GPM FLOW RESTRICTOR; DELTA 28T910 STAINLESS STEEL MOP HOLDER; 28T911 HEAVY DUTY 31"	DELTA 28T9
MOP SERVICE BASIN				Ke	MSB-2424	LONG REINFORCED HOSE, BRASS COUPLING, STAINLESS STEEL HANGER BRACKET, W/RUBBER GRIP.	WITH INTERGRAL VACUUM BREAKER
FD-1	3	1.5	7		JAY R. SMITH	CAST IRON BODY AND FLASHING COLLAR; 6" NICKEL BRONZE ROUND STRAINER; VANDLE PROOF GRATE; SEDIMENT BUCKET; P-050 TRAP	
FLOOR DRAIN	127				2010.00	PRIMER OPTION, CAST IRON GRATES NOT PERMITTED.	
FCO-1	4			Rê-	JAY R. SMITH	CAST IRON CLEANOUT; NICKEL BRONZE 6" ROUND ADJUSTABLE SCORIATED VANDAL PROOF TOP; GASKET SEAL ABS THREADED PLUG WITH	
FLOOR CLEAN OUT					4020S	SLOT TO RECEIVE 1/2" BAR STOCK, ARFCO- ACID RESITANT OPTION.	
WCO-1	-4		7	1	JAY R. SMITH	CAST IRON SPIGOT FERRULE; CAST BRONZE TAPER THREADED COUNTERSUNK PLUG WITH SLOT TO RECEIVE 1/2" BAR STOCK	
WALL CLEAN OUT	(6)				4420.00		
GCO-1	4			Rê	JAY R. SMITH	CAST IRON SPIGOT FERRULE; CAST BRONZE TAPER THREADED COUNTERSUNK PLUG WITH SLOT TO RECEIVE 1/2" BAR STOCK; CHROME	
GRADE CLEAN OUT				ice.	4261L	PLATED BRONZE ROUND FRAME AND VANDAL PROOF COVER	
EWC-1	1.5	1.25	0.5		OASIS	WALL HUNG, BARRIER FREE. SPLIT LEVEL; 8 GPH OF 50° WATER AT 90 ° AMBIENT; 1/4 HP, 120V/1PH. PROVIDE QUARTER TURN ANGLED STOP,	
ELEC WTR COOLER	07000		(5)33551		PBACSL	P-TRAP AND SUPPLIES. INSTALLED PER ADA ACCESSIBILITY.	
WH-1 WALL HYDRANT			0.75		WOODFORD RB67	CHROME ROUND BOX FINISH, AUTOMATIC DRAINING G W/NICKEL 37HA, 3/4" MALE HOSE THREAD DOUBLE CHECK BACKFLOW PREVENTER, FIELD TESTABLE, LOOSE KEY.	
WHA WATER HAMMER ARRESTOR					JAY R. SMITH 5000 SERIES	STAINLESS STEEL PRESSURIZED COMPRESSION CHAMBER; THREADED NIPPLE CONNECTION; SIZE AS INDICATED ON DRAWINGS	
SK-1 2 COMP KITCHEN SINK	1.5	1.25	0.5	0.5	ELKAY BPSR2317	23X17 DBL COMPARTMENT, 20-GAUGE 304 STAINLESS STEEL SELF-RIMMING, FULLY COATED UNDERSIDE, 3-HOLE SWIVEL GOOSENECK SPOUT, INSTALL PER ADA ACCESSIBILITY, VERIFY EXISTING COUNTER OPENING FIT PRIOR TO ORDERING.	DELTA 26C3944 - 1.5 GPM AERATOR 6" WRIST HANDLES-6" GOOSENECK
WB-1 MISC, WATER SUPPLY BOX			0.5	0.5	OATEY IMOB	HIGH IMPACT POLYSTYRENE BOX W/FACE PLATE; QUARTER TURN BALL VALVES; 6' LONG STAINLESS STEEL HOSE.	
WB-2 WASH, MACH, BOX	2"	1-1/4"	1/2"	1/2"	WATTS 2M2 DUAL CLOSURE	2M2 WB WITH ROUGH-IN KIT-BR AND FINISH KIT. MOUNT RECESSED IN WAL BEHIND WASHING MACHINE AT 48"AFF.	
SH-1 ADA SHOWER	3	1.5	0.5	0.5	KOHLER K-12100 36X36	ADA ACRYLIC SHOWER UNIT WITH ADA HOT/COLD LABELLED MIXING VALVE AND SHOWER HEAD WITH ADJUSTBLE SPRAY HEAD HOSE AND HEAD SUPPORT, COORDINATE ROUGH-IN SIZE WITH WALL CLEARANCES.	
SH-1 ROLL IN ADA SHOWER	3	1.5	0.5	0.5	FREEDOM SHOWERS APFQ6233BF75	ADA GELCOAT SHOWER UNIT WITH MAUNFACTURER ACCESSORY APFHHGBLS ADA HOT/COLD LABELLED MIXING VALVE AND SHOWER HEAD WITH ADJUSTBLE SPRAY HEAD HOSE AND HEAD SUPPORT. COORDINATE ROUGH-IN SIZE WITH WALL CLEARANCES.	
SH-2	3	1.5	0.5	0.5	KOHLER	ACRYLIC SHOWER UNIT WITH CENTER DRAIN, PROVIDE WITH HOT/COLD INDICATED THERMOSTATIC MIXING SHOWER VALVE AND COALIAS	
STANDARD SHOWER INSERT	10.57	120)125	633360	19355	K-16890 36X36		
SH-3	G :		0.75	0.75	BRADLEY	CENTRALLY RISING VENT WITH SUPPLIES FROM ABOVE, EQUA-FLO PRESSURE BALANCING VALVE, SEVERE SERVICE SHOWERHEAD AT 6'-0"	
POLE SHOWER ASSMEBLY	4	23 8	Y		COL4C	STANDARD HEIGHT, PRIVACY COMPARTMENTS (5) WITH CURTAINS.	
MXV-1 MIXING VALVE				.75(X2)	POWERS LM490	MULTI-FIXTURE MIXING VALVE, SOLID BRASS WITH INTEGRAL CHECK. THREADED UNION CONNECTIONS. ASSE1017	
TP-1 PRESSURE ACT.TRAP PRIMER	ĈĈ.		0.5	S.	PPP PR-500	PRESSURE ACTIVATED TRAP PRIMER- PROVIDE DISTRIBUTION FITTING FOR UP TO 4 OUTLETS AS SHOWN ON DRAWINGS.	
BFP-1 RPZ BACKFLOW					WATTS 909	BRONZE BODY WITH THREADED ENDS. EACH BACKFLOW SHALL BE PROVIDED WITH BALL VALVES, TEST COCKS AND STRAINERS. ROUTE	

RPZ BACKFLOW | | 909 | 909 | 909 | 909 | 909 | 909 | 909 | 909 | 909 | 909 | 909 | 909 | 909 | 909 | 909 | 909 | 909 | 909 | 909 | 909 | 909 | 909 | 909 | 909 | 909 | 909 | 909 | 909 | 909 | 909 | 909 | 909 | 909 | 909 | 909 | 909 | 909 | 909 | 909 | 909 | 909 | 909 | 909 | 909 | 909 | 909 | 909 | 909 | 909 | 909 | 909 | 909 | 909 | 909 | 909 | 909 | 909 | 909 | 909 | 909 | 909 | 909 | 909 | 909 | 909 | 909 | 909 | 909 | 909 | 909 | 909 | 909 | 909 | 909 | 909 | 909 | 909 | 909 | 909 | 909 | 909 | 909 | 909 | 909 | 909 | 909 | 909 | 909 | 909 | 909 | 909 | 909 | 909 | 909 | 909 | 909 | 909 | 909 | 909 | 909 | 909 | 909 | 909 | 909 | 909 | 909 | 909 | 909 | 909 | 909 | 909 | 909 | 909 | 909 | 909 | 909 | 909 | 909 | 909 | 909 | 909 | 909 | 909 | 909 | 909 | 909 | 909 | 909 | 909 | 909 | 909 | 909 | 909 | 909 | 909 | 909 | 909 | 909 | 909 | 909 | 909 | 909 | 909 | 909 | 909 | 909 | 909 | 909 | 909 | 909 | 909 | 909 | 909 | 909 | 909 | 909 | 909 | 909 | 909 | 909 | 909 | 909 | 909 | 909 | 909 | 909 | 909 | 909 | 909 | 909 | 909 | 909 | 909 | 909 | 909 | 909 | 909 | 909 | 909 | 909 | 909 | 909 | 909 | 909 | 909 | 909 | 909 | 909 | 909 | 909 | 909 | 909 | 909 | 909 | 909 | 909 | 909 | 909 | 909 | 909 | 909 | 909 | 909 | 909 | 909 | 909 | 909 | 909 | 909 | 909 | 909 | 909 | 909 | 909 | 909 | 909 | 909 | 909 | 909 | 909 | 909 | 909 | 909 | 909 | 909 | 909 | 909 | 909 | 909 | 909 | 909 | 909 | 909 | 909 | 909 | 909 | 909 | 909 | 909 | 909 | 909 | 909 | 909 | 909 | 909 | 909 | 909 | 909 | 909 | 909 | 909 | 909 | 909 | 909 | 909 | 909 | 909 | 909 | 909 | 909 | 909 | 909 | 909 | 909 | 909 | 909 | 909 | 909 | 909 | 909 | 909 | 909 | 909 | 909 | 909 | 909 | 909 | 909 | 909 | 909 | 909 | 909 | 909 | 909 | 909 | 909 | 909 | 909 | 909 | 909 | 909 | 909 | 909 | 909 | 909 | 909 | 909 | 909 | 909 | 909 | 909 | 909 | 909 | 909 | 909 | 909 | 909 | 909 | 909 | 909 | 909 | 909 | 909 | 909 | 909 | 909 | 909 | 909 | 909 | 909 | 909 | 909 | 909 | 909 | 909 | 909 | 909 | 909 | 909 | 909 | 909 | 909 | 909 | 909 | 909 | 909 | 909 | 909 | 9

MINIMUM CRITERIA AND SHALL BE THE BASIS FOR CONTRACTORS BASE BID. WHERE SPECIFIED FIXTURES AND/OR EQUIPMENT ARE NOT IN COMPLIANCE WITH GOVERNING CODES AND REGULATIONS, THE CONTRACTOR SHALL PROVIDE AN ALTERNATE BID FOR THE SUBSTITUTIONS OF COMPLYING FIXTURES, EQUIPMENT, THE ABSENCE OF AN ALTERNATE BID SHALL BE CONSTRUED TO MEAN THAT THE CONTRACTORS BASE BID INCLUDES ALL COSTS NECCESSARY TO MEET ALL REGULATIONS AND CODES.

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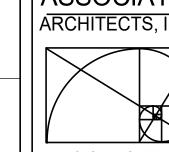
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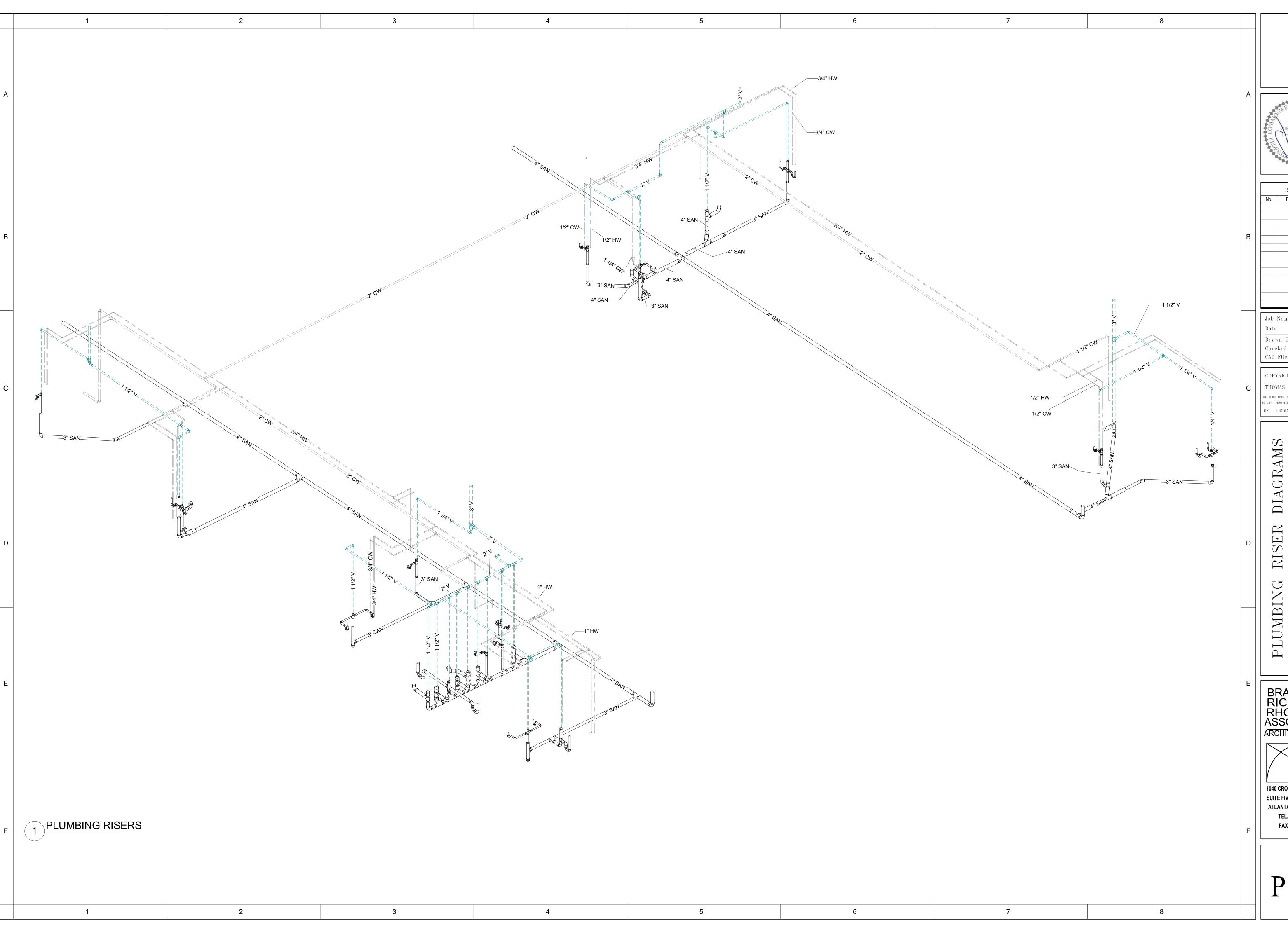
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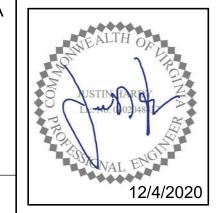
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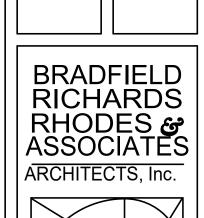
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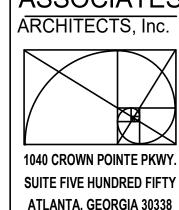
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