# REID STATE CC WELDING & INDUSTRIAL RENO.

## REID STATE COMMUNITY COLLEGE / EVERGREEN, ALABAMA

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**REID STATE CC WELDING & INDUSTRIAL RENO.**
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ACCS 2025.162.RSTCC
GMC ABHM250047

STATE OF ALABAMA
PATRICK SWATEK
8969
REGISTERED ARCHITECT

**TITLE SHEET**

**T0**

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# GENERAL NOTES

THE GENERAL NOTES BELOW ARE INTENDED TO COMPLEMENT, RATHER THAN REPLACE, REQUIREMENTS PUT FORTH BY THE PROJECT SPECIFICATIONS. SHOULD A DISCREPANCY BE FOUND BETWEEN THESE GENERAL NOTES AND THE PROJECT SPECIFICATIONS THE GC SHALL NOTIFY THE ARCHITECT FOR CLARIFICATION PRIOR TO PROCEEDING.

## A DIVISION 1 - GENERAL REQUIREMENTS

1.01. **COMPLETE CONTRACT DOCUMENTS:** COMPLETE DRAWINGS, SPECIFICATIONS, ADDENDA, AND CLARIFICATIONS ISSUED BY FIELD ORDER OR SIMILAR INSTRUMENTS CONSTITUTE THE CONTRACT DOCUMENTS AND SHALL REMAIN INTACT. GENERAL CONTRACTOR IS FULLY RESPONSIBLE FOR COMPLIANCE WITH THE REQUIREMENTS INCLUDED, OR REASONABLY INFERRED THEREIN. CONSTRUCTION MANAGER OR GENERAL CONTRACTOR (AS APPLICABLE) MUST NOT ISSUE PARTIAL SETS OR OTHERWISE CAUSE INCOMPLETE CONTRACT INFORMATION TO BE PROVIDED TO PARTIES TO THE CONTRACT, INCLUDING ASSOCIATED SUB-CONTRACTORS, OR SUB-SUB-CONTRACTORS.

1.02. **MULTI-TRADE COORDINATION:** ALL WORK SHALL BE COORDINATED WITH THE WORK OF OTHER TRADES TO AVOID INTERFERENCES AND CONFLICTS. NO ALLOWANCES WILL BE MADE FOR CONTRACTOR'S FAILURE TO COORDINATE BETWEEN MULTIPLE DISCIPLINES, SYSTEMS OR EQUIPMENT. UNCOORDINATED WORK THAT RESULTS IN THE INEFFICIENT USE OF AVAILABLE SPACE AND/OR ENCROACHES ON THE WORK OF OTHER TRADES WILL BE SUBJECT TO REJECTION AND RE-INSTALLATION.

1.03. **VERIFICATION:** GENERAL CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS, CONSTRUCTION, MATERIALS, METHODS OF CONSTRUCTION, GRADES AND ELEVATIONS. NOTIFY THE ARCHITECT OF ANY DISCREPANCIES OR CONFLICTS WITHIN THE DOCUMENTS PRIOR TO BID, CONSTRUCTION, AND/OR INSTALLATION OF ASSOCIATED WORK. COMMENCEMENT OF WORK CONSTITUTES ACCEPTANCE THAT THE EXISTING CONDITIONS ARE CONSISTENT WITH THOSE OF THE CONTRACT DOCUMENTS. ANY CHANGE ORDER REQUEST ASSOCIATED WITH AN IDENTIFIABLE EXISTING CONDITION, WHETHER IN CONFLICT OR COMPLIANCE WITH THE CONTRACT DOCUMENTS, WILL NOT BE ACCEPTED. THIS PROVISION SHALL NOT APPLY TO WORK PERFORMED UNDER UNIT PRICE OR ALLOWANCE FEE STRUCTURES.

1.04. **DISCREPANCIES:** GENERAL CONTRACTOR SHALL NOTIFY THE ARCHITECT PROMPTLY UPON IDENTIFICATION OF ANY DISCREPANCIES OR CONFLICTS IN THE CONTRACT DOCUMENTS, WITH THE OBJECTIVE OF RESOLVING THE CONFLICT OR DISCREPANCY IN A TIMELY MANNER AND PRIOR TO ANY IMPACT TO CONTRACT TIME OR CONTRACT COST. GENERAL CONTRACTOR SHALL INCLUDE THE MORE EXPENSIVE, COMPLEX, AND TIME CONSUMING COMPONENTS OF ANY DISCREPANCIES IN THE BASE BID PRICE. FAILURE TO NOTIFY THE ARCHITECT PROMPTLY OF A KNOWN DISCREPANCY CONSTITUTES ACCEPTANCE OF FULL RESPONSIBILITY FOR THE ASSOCIATED COST AND SCHEDULE IMPACT.

1.05. **DRAWING SCALE:** REPROGRAPHIC TECHNIQUES MAY RENDER DRAWINGS DIFFERENTLY THAN THE INTENDED PRINTED SCALE. THEREFORE, DO NOT RELY UPON THE SCALE OF ANY PRINTED DRAWINGS. CONTACT THE ARCHITECT FOR REQUIRED DIMENSIONS THAT ARE NOT PROVIDED CLEARLY IN NUMERIC FORM HEREIN. FAILURE TO REQUEST CRITICAL DIMENSIONAL INFORMATION FROM THE ARCHITECT MAY RESULT IN THE REJECTION OF INSTALLED WORK.

1.06. **DIMENSIONAL STANDARDS:** STANDARD DIMENSION CONVENTIONS UTILIZED HEREIN CALL FOR DIMENSIONS TO FACE OF STUD (MASONRY) OF FINISHED PARTITION, FACE OF FINISH, OR CENTERLINE OF COLUMN LINE OR OTHER REFERENCE LINE, UNLESS OTHERWISE NOTED OR GRAPHICALLY ILLUSTRATED. DIMENSIONS NOTED AS "CLEAR", "MIN", OR "MAX" SHALL BE STRICTLY ENFORCED.

1.07. **PM SOFTWARE:** SEE SPECIFICATIONS

1.08. **PERMITTING:** THE GENERAL CONTRACTOR SHALL SECURE AND PAY FOR ALL NECESSARY AND REQUIRED PERMITS AND APPROVALS FROM JURISDICTIONAL AUTHORITIES, PRIOR TO COMMENCING THE WORK. THIS REQUIREMENT SHALL APPLY TO ON-SITE AND OFF-SITE WORK REQUIRED BY THE CONTRACT DOCUMENTS.

1.09. **CODE COMPLIANCE:** THE WORK SHALL BE PERFORMED IN STRICT COMPLIANCE WITH ALL APPLICABLE LAWS, CODES, AND ORDINANCE. THE GENERAL CONTRACTOR AND SUB-CONTRACTORS SHALL PERFORM THEIR WORK IN COMPLIANCE WITH ALL APPLICABLE BUILDING CODES, LAWS, REGULATIONS, AND ORDINANCES. GENERAL CONTRACTOR AND ALL SUB-CONTRACTORS SHALL CAREFULLY READ AND FAMILIARIZE THEMSELVES WITH THE CODE COMPLIANCE DATA INCLUDED IN THE DRAWINGS AND SPECIFICATIONS.

1.10. **NON-COMBUSTIBLE CONSTRUCTION TYPES:** THE PROPOSED BUILDING STRUCTURE IS NON-COMBUSTIBLE IN ACCORDANCE WITH APPLICABLE CODES, AND THEREFORE REQUIRES NON-COMBUSTIBLE CONSTRUCTION TECHNIQUES. ALL NEW CONSTRUCTION SHALL BE IN COMPLIANCE WITH APPLICABLE REQUIREMENTS, INCLUDING WOOD BLOCKING, FURRING, FRAMING, SHEATHING, BACK-BOARDS, AND RELATED WORK. FIRE RETARDANT TREATED (FRT) IS PERMITTED WHERE ALLOWED BY CODE. SEE CODE COMPLIANCE DRAWINGS FOR DETAILED INFORMATION AND REQUIREMENTS.

1.11. **TEMPORARY GUARDS:** THE GENERAL CONTRACTOR SHALL INSTALL AND MAINTAIN TEMPORARY GUARDS AT ALL SLAB EDGES, PIT EDGES, ELEVATED PLATFORM EDGES, AND SIMILAR CONDITIONS WHERE REQUIRED BY OSHA, ANY APPLICABLE CODE OR ORDINANCE, AND AT MINIMUM ALL CHANGES IN ELEVATION IN EXCESS OF THIRTY INCHES (30") INCLUDING BOTH SIDES OF STAIRS AND LADDERS. TEMPORARY GUARDS MUST BE MAINTAINED UNTIL THE PERMANENT GUARDS ARE INSTALLED.

1.12. **LIFE-SAFETY MEASURES DURING CONSTRUCTION:** THE GENERAL CONTRACTOR SHALL COMPLY WITH ALL REQUIREMENTS REQUIRED BY OSHA, CODE, AND OTHER APPLICABLE REGULATORY AUTHORITIES.

1.13. **MEANS OF EGRESS:** THE GENERAL CONTRACTOR SHALL MAINTAIN CLEAR AND UNOBSTRUCTED MEANS OF EGRESS AT ALL TIMES DURING CONSTRUCTION, WITHOUT EXCEPTION.

1.14. **CONSTRUCTION LOADS:** THE GENERAL CONTRACTOR SHALL NEVER LOAD NEW OR EXISTING CONSTRUCTION BEYOND ITS DESIGN CAPACITY WITH STORED MATERIAL, CONSTRUCTION EQUIPMENT, TEMPORARY LOADS ASSOCIATED WITH MATERIAL MOVEMENT, HOISTING, STORAGE, OR SIMILAR CONDITIONS.

1.15. **GENERAL CLEAN-UP:** THE GENERAL CONTRACTOR SHALL INCLUDE ONGOING CLEAN-UP OF THE PROPERTY AND BUILDING, INCLUDING REMOVAL OF TRASH AND WASTE MATERIALS, ON A REGULAR BASIS DURING CONSTRUCTION. RECYCLING OF CONSTRUCTION WASTE IS ENCOURAGED.

1.16. **OWNER FURNISHED EQUIPMENT:** LOOSE FURNISHINGS, WORKSTATIONS, OFFICE EQUIPMENT, COPIERS, VENDING MACHINES, KITCHEN EQUIPMENT, AND SIMILAR ITEMS THAT ARE BOTH LABELED "OWNER FURNISHED" OR "OF/OI", AND SHOWN DASHED OR IN GRAY-TONE SHALL BE CONSIDERED OWNER-FURNISHED EQUIPMENT. OWNER-FURNISHED EQUIPMENT IS SHOWN FOR THE GENERAL CONTRACTOR'S KNOWLEDGE AND UNDERSTANDING TO FACILITATE COORDINATION WITH THE OWNER'S WORK. THE GENERAL CONTRACTOR SHALL CAREFULLY REVIEW THE SCOPE OF WORK, AND REQUEST CLARIFICATION FROM THE ARCHITECT IN THE EVENT OF ANY UNCERTAINTY ABOUT THE DEFINITION OF OWNER FURNISHED WORK.

1.17. **TEMPORARY BRACING:** PRIOR TO REMOVAL OF ANY EXISTING STRUCTURAL ELEMENTS, THE GENERAL CONTRACTOR SHALL TEMPORARILY SHORE AND/OR BRACE EXISTING CONSTRUCTION TO REMAIN AS REQUIRED TO SUPPORT EXISTING LOADS AND/OR LOADS IMPOSED DURING CONSTRUCTION. FURTHER, THE GENERAL CONTRACTOR SHALL DESIGN, INSTALL AND MAINTAIN ANY TEMPORARY BRACING OR SUPPORT FRAMING REQUIRED TO SUPPORT NEW CONSTRUCTION COMPONENTS WHICH ARE NOT FULLY SECURED IN A COMPLETE STRUCTURAL ASSEMBLY, OR ARE OTHERWISE SUBJECTED TO LOADS IN EXCESS OF THE POST-CONSTRUCTION LOADS FOR WHICH THE ELEMENT IS DESIGNED.

## B DIVISION 2 - EXISTING CONDITIONS

2.01. **POSITIVE DRAINAGE AT BUILDING:** SLOPE EXTERIOR GRADE AWAY FROM THE BUILDING IN ACCORDANCE WITH THE INTERNATIONAL BUILDING CODE.

2.02. **SITE PAVING EXPANSION AND CONTROL JOINTS:** WHETHER SPECIFICALLY INDICATED OR NOT, PROVIDE CONTROL JOINTS IN ALL SITE CONCRETE PAVING FOR PEDESTRIAN TRAFFIC AT AN INTERVAL OF NO MORE THAN FIVE FEET (5') EACH WAY. IN ADDITION, PROVIDE CONTROL JOINTS AT NO MORE THAN THIRTY FOOT (30') INTERVAL, EACH WAY. ALL EXPANSION JOINTS, INCLUDING THOSE BETWEEN HORIZONTAL PAVING AND VERTICAL ABUTMENTS, SHALL RECEIVE SPECIFIED JOINT FILLER, AS SPECIFIED IN SECTION 079000.

## C DIVISION 3 - CONCRETE

3.01. **SLAB-ON-GRADE:** SEE SPECIFICATION SECTION 033000 FOR DETAILED REQUIREMENTS OF SLAB-ON-GRADE CONSTRUCTION, INCLUDING REQUIREMENTS FOR REINFORCING, CONCRETE ADMIXTURES, VAPOR BARRIER, AND SURFACE TREATMENTS (IF ANY). ALL SLAB-ON-GRADE CONSTRUCTION SHALL BE INSTALLED OVER MINIMUM FOUR INCH (4") THICK COMPACTED POROUS DRAINAGE LAYER UNLESS NOTED OTHERWISE.

3.02. **SLAB EXPANSION AND CONTROL JOINTS:** SEE STRUCTURAL DRAWINGS FOR REQUIRED SLAB EXPANSION AND CONTROL JOINTS. ALL EXPANSION JOINTS AND CONTROL JOINTS IN FLOOR SLABS, AND BETWEEN FLOOR SLABS AND VERTICAL ABUTMENTS SHALL RECEIVE TRAFFIC BEARING SEALANT JOINT MATERIAL.

3.03. **CORE DRILLING - FLOOR SLABS:** THE GENERAL CONTRACTOR SHALL NOTIFY THE ARCHITECT IN WRITING OF THE LOCATION AND DIMENSION OF ANY PROPOSED CORES THROUGH STRUCTURAL FLOOR SLABS, PRIOR TO COMMENCING CORING ACTIVITIES.

3.04. **FLOOR LOADING DURING CONSTRUCTION:** NO LOADS EXCEEDING THE SPECIFIED FLOOR LIVE LOAD INCLUDING CONSTRUCTION EQUIPMENT OR LIFTS SHALL BE PLACED ON THE ELEVATED SLABS WITHOUT REVIEW AND APPROVAL OF THE STRUCTURAL ENGINEER. ANY REQUESTS SHALL BE MADE IN WRITING BY THE GENERAL CONTRACTOR INCLUDING CUT SHEETS AND PROPOSED LOADING CRITERIA. DO NOT PROCEED UNTIL WRITTEN AUTHORIZATION FROM THE STRUCTURAL ENGINEER HAS BEEN PROVIDED.

## D DIVISION 4 - MASONRY

4.01. **SEAL VENEER ANCHORS:** ALL EXTERIOR VENEER SYSTEM ANCHORS SHALL BE SET IN FULL, FRESH BED OF TROWEL GRADE AIR/MOISTURE BARRIER COATING, OR DOW 795 OR EQUIVALENT AT THE PLANE OF THE AIR/MOISTURE BARRIER.

## E DIVISION 5 - METALS

5.01. **EMBEDDED STEEL:** ALL MISCELLANEOUS STEEL ITEMS INCLUDING STEEL EDGE ANGLES, EMBEDDED PLATE, AND SIMILAR WORK SHALL BE HOT-DIPPED GALVANIZED. THIS PROVISION DOES NOT APPLY TO REINFORCING STEEL, WHICH SHALL COMPLY WITH SPECIFICATION DIVISION 033000.

## F DIVISION 6 - WOOD,PLASTICS & COMPOSITES

6.01. **WOOD IN CONTACT WITH CONCRETE/ MASONRY:** ALL WOOD IN CONTACT WITH CONCRETE OR MASONRY CONSTRUCTION SHALL BE PRESSURE TREATED (PT) UNLESS OTHERWISE NOTED TO BE FIRE RETARDANT TREATED (FRT).

6.02. **FIELD VERIFICATION:** THE CASEWORK OR MILLWORK CONTRACTOR SHALL OBTAIN AND VERIFY ALL FIELD MEASUREMENTS AND CONDITIONS AFFECTING HIS WORK AND SHALL BE RESPONSIBLE FOR ALL DETAILS AND DIMENSIONS ASSURING PRECISION AND PROPER ASSEMBLY OF HIS PRODUCTS.

6.03. **MILLWORK BASE:** PROVIDE FINISHED BASE TO MATCH MATERIAL AND FINISH OF ADJACENT SCHEDULED WALL BASE, AT TOE-KICK AT ALL EXPOSED FRONT, SIDE, AND REAR FACES OF MILLWORK OR CASEWORK.

6.04. **MILLWORK SPLASH:** PROVIDE BACKSPLASH AT ALL COUNTERTOPS UNLESS OTHERWISE INDICATED ON PLAN. PROVIDE SIDESPLASH OF SAME MATERIAL, DIMENSION, AND FINISH EVERYWHERE A COUNTERTOP BACKSPLASH ABUTS A VERTICAL WALL SURFACE AT ONE OR MORE OF ITS SIDES UNLESS OTHERWISE INDICATED ON PLAN.

## G DIVISION 7 - THERMAL & MOISTURE PROTECTION

7.01. **GENERAL SEALANTS:** CONTINUOUSLY SEAL PERIMETER OF ALL DOOR AND WINDOW FRAMES, MILLWORK AND CASEWORK, TRIM, CABINETS, AND SIMILAR FIXED CONSTRUCTION WITH PAINTABLE, SILICONIZED LATEX SEALANT. ALL VERTICAL SURFACE CONTROL AND EXPANSION JOINTS AT MASONRY WALLS SHALL BE CONTINUOUSLY SEALED, BOTH SIDES OF JOINT.

7.02. **SLOPE TO DRAIN:** ALL ROOF SURFACES SHALL BE SLOPED TO DRAIN, WITH MINIMUM PITCH OF ¼" PER LINEAR FOOT. PROVIDE TAPERED INSULATION, CRICKETS AS NECESSARY TO ASSURE THE MINIMUM SLOPE IS ACHIEVED.

7.03. **WALK-PADS:** FURNISH AND INSTALL COMPATIBLE ROOF WALK-PADS AT ALL MEMBRANE ROOF SURFACES THAT ARE TRAVELED TO ACCESS SERVICEABLE ROOFTOP EQUIPMENT SUCH AS HVAC UNITS, FANS, ELECTRICAL EQUIPMENT, AND SIMILAR EQUIPMENT REQUIRING SERVICE ACCESS.

7.04. **EXPANSION JOINTS COVERS:** ALL BUILDING EXPANSION JOINTS EXPOSED TO VIEW IN FLOOR, PARTITION, AND/ OR CEILING ASSEMBLIES SHALL RECEIVE COLOR-COORDINATED PRE-FABRICATED EXPANSION JOINT COVER ASSEMBLY DESIGNED TO ALLOW THE REQUIRED MOVEMENT, AND TO PROVIDE UL APPROVED FIRE RATED ASSEMBLY WHERE REQUIRED.

## H DIVISION 8 - OPENINGS

8.01. **LABELED FIRE-RATED DOORS AND FRAMES:** ALL FIRE DOORS AND FRAMES SHALL BE LABELED BY AN APPROVED AGENCY PER NFPA 80, AND SHALL BE PERMANENTLY AFFIXED THERETO, AND THE LIFE OF THE LABEL AND THE ATTACHMENT THEREOF CAN REASONABLY BE EXPECTED TO EQUAL THE LIFE OF THE COMPONENT TO WHICH IT IS ATTACHED. LABELS MUST BE PROVIDED BY A MANUFACTURER THAT HAS BEEN APPROVED BY A LABORATORY OR ORGANIZATION TO PROVIDE TESTING AND FOLLOW-UP SERVICES FOR FIRE-RATED OPENING ASSEMBLIES. ALL LABELS SHALL INCLUDE THE FIRE RESISTANCE RATING IN HOURS AND/OR MINUTES. LABELS ON FRAMES WITH TRANSOMS AND/OR SIDELIGHTS MUST IDENTIFY THAT THE OPENING ASSEMBLY INCLUDES SAME.

(A) LABELS SHALL BE RAISED OR EMBOSSED ON METAL LABELS.
(B) PLASTIC OR PAPER LABELS ARE UNACCEPTABLE.
(C) LABELS MUST BE VISIBLE AND LEGIBLE AT ALL TIMES AND SHALL NOT BE PAINTED.
    1. FAILURE TO COMPLY WITH THIS REQUIREMENT WILL REQUIRE PAINTER TO REIMBURSE OWNER FOR COSTS OF RE-LABELING RATED DOORS AND FRAMES.

8.02 **FIRE-RATED CERAMIC GLAZING:** AT FIRE-RATED DOORS, SIDELITES, AND TRANSOMS, PROVIDE FIRE-RATED CERAMIC GLAZING AT ANY VISION PANEL THAT EXCEEDS THE MAXIMUM ALLOWABLE GLASS SIZE PER IBC TABLE 716.5 (IBC 2015) or 716.1(2) (IBC 2018) AS APPLICABLE. SEE SPECIFICATION SECTION 08 8000 GLAZING FOR CERAMIC GLAZING.

8.03. **TEMPERED GLASS:** PROVIDE TEMPERED SAFETY GLASS EVERYWHERE REQUIRED BY APPLICABLE CODE, INCLUDING ANY GLASS IN DOORS, OPERABLE WINDOWS, ADJACENT TO DOORS OR OPERABLE WINDOWS, WITHIN 36" OF THE ADJACENT FLOOR OR GRADE LEVEL, OR OTHERWISE WHERE REQUIRED BY CODE.

8.04. **BLOCKING:** FURNISH AND INSTALL BLOCKING IN METAL STUD FRAMED WALLS AND PARTITIONS THAT ARE SCHEDULED TO RECEIVE DOOR BUMPERS/ STOPS, MAGNETIC LOCK DEVICES, AND SIMILAR DOOR RELATED DEVICES THAT WILL SUBJECT THE PARTITION TO DOOR MOVEMENT LOADS AND IMPACT.

8.05. **HOLLOW METAL FRAMES:** COORDINATE THE THROAT DEPTH OF ALL HOLLOW METAL FRAMES WITH THE DEPTH OF THE PARTITION SCHEDULED TO RECEIVE THE DOOR OR WINDOW FRAME.

## I DIVISION 9 - FINISHES

9.01. **INDOOR ENVIRONMENTAL CONDITIONS:** NO INTERIOR SOFT CONSTRUCTION (IE. DRYWALL, CEILINGS, CARPET, MILLWORK, OR SIMILAR WORK THAT IS SUBJECT TO TEMPERATURE AND HUMIDITY INSTABILITY) SHALL COMMENCE, NOR SHALL MATERIALS BE STORED ON SITE, UNTIL STABLE INTERIOR ENVIRONMENTAL CONDITIONS ACCEPTABLE TO THE PRODUCT MANUFACTURER ARE PROVIDED AND IN PLACE FOR A DURATION SUFFICIENT TO ESTABLISH CONSISTENT AND ACCEPTABLE INDOOR TEMPERATURE AND HUMIDITY LEVELS. FAILURE TO PROVIDE AN INDOOR ENVIRONMENT IN STRICT COMPLIANCE WITH THE PRODUCT MANUFACTURERS PRINTED REQUIREMENTS WILL SUBJECT THE INSTALLING CONTRACTOR TO FULL RESPONSIBILITY FOR ANY COSTS ASSOCIATED WITH RE-WORK DUE TO MOLD OR MILDEW GROWTH , WARPING, CUPPING, DE-LAMINATION, OR SIMILAR DETERIORATION OF THE STORED OR INSTALLED CONSTRUCTION.

9.02. **FLOOR & WALL TILE:** INSTALL FLOOR AND WALL TILE IN ALL SCHEDULED AREAS IN ACCORDANCE WITH APPLICABLE TILE COUNCIL OF AMERICA (TCNA) METHOD.

9.03. **FLOOR FINISH TRANSITIONS:** UNLESS OTHERWISE INDICATED, TRANSITION FLOOR FINISHES AT CENTERLINE OF DOOR IN CLOSED LOCATION. TRANSITION FLOOR MATERIAL UNDER CENTER OF DOORS & WHERE NOTED. PROVIDE SCHEDULED TRANSITION MATERIALS AT CHANGES IN FLOOR MATERIAL TYPE.

9.04. **PARTITIONS:** SEE PARTITION NOTES AND SPECIFICATIONS FOR REQUIREMENTS OF PARTITION CONSTRUCTION.

9.05. **EQUIPMENT ACCESS DOORS:** THE GENERAL CONTRACTOR SHALL PROVIDE PROPOSED LOCATION OF CEILING ACCESS DOORS TO THE ARCHITECT FOR APPROVAL. ACCESS DOORS SHALL BE PAINTED TO MATCH ADJACENT FINISH.

9.06. **CASEWORK AND MILLWORK ANCHORAGE:** COORDINATE INSTALLATION OF IN-WALL STEEL ANCHORAGE, GROUNDS, AND REQUIRED BLOCKING WITH OTHER TRADES FOR PRECISE LOCATION.

9.07. **PARTITION COORDINATION WITH OTHER TRADES:**
(A) COORDINATE BETWEEN TRADES BEFORE FRAMING PARTITIONS. PARTITION FRAMING SHALL BE LAID OUT SO AS TO PERMIT THE INSTALLATION OF PIPING, CONDUITS, AND DUCTWORK WITH A MINIMUM OF CUTTING BY OTHER TRADES.
(B) EXCEPT FOR PIPING LOCATED IN EQUIPMENT ROOMS, ALL PIPING INSIDE THE BUILDING SHALL BE CONCEALED WITHIN PARTITIONS AND FURRED SPACES. WHERE IT OCCURS THAT PIPING CANNOT BE EASILY CONCEALED, NOTIFY THE ARCHITECT IN WRITING FOR CLARIFICATION. IN ANY CASE, SUCH PIPING SHALL BE CONCEALED AT NO ADDITIONAL COST.
(C) COORDINATE WITH OTHER TRADES AND OWNERS' SCHEDULED EQUIPMENT VENDORS FOR SUPPORT REQUIREMENTS OF WALL- MOUNTED AND SUSPENDED ITEMS. SIZE STUD GAUGE AND SPACING MUST BE ABLE TO SUPPORT ANY ADDITIONAL LOADS IMPOSED BY THESE ITEMS. MAX. DEFLECTION L/360 @ 5 PSF HORIZ. LOAD.
(D) PROVIDE AND INSTALL ALL BLOCKING, STIFFENERS, BRACES, BACK-UP PLATES, AND SUPPORTING BRACKETS AS REQUIRED FOR THE INSTALLATION OF WALL-MOUNTED OR SUSPENDED MECHANICAL ELECTRICAL, CASEWORK, MILLWORK AND ANY OTHER MISCELLANEOUS EQUIPMENT OR WALL-MOUNTED ACCESSORIES.
(E) ANY ADDITIONAL WORK OR, RE-WORK, AS A RESULT OF A FAILURE TO COMPLY WITH THESE REQUIREMENTS WILL NOT BE GIVEN CONSIDERATION FOR CHANGE ORDER.

9.08 **FIRE-RATED PARTITIONS AND FIRE-RATED SMOKE BARRIER IDENTIFICATION**
(A) FIRE-RATED PARTITIONS AND FIRE-RATED SMOKE BARRIERS SHALL BE PERMANENTLY LABELED IN RED STENCILED LETTERING ABOVE FINISHED CEILING AT 1'-0" ABOVE CEILING.
    1. EACH NEW FIRE WALL, FIRE BARRIER, FIRE PARTITION, SMOKE BARRIER, SMOKE PARTITION, OR ANY OTHER NEW WALL REQUIRED TO HAVE PROTECTED OPENINGS SHALL BE PERMANENTLY IDENTIFIED WITH SIGNS OR STENCILING ABOVE ANY DECORATIVE CEILING AND IN CONCEALED SPACES WITH THE WORDING, "FIRE AND SMOKE BARRIER - PROTECT ALL OPENINGS", OR SIMILAR LANGUAGE. SUCH SIGNS OR STENCILING SHALL BE IN 4 INCH HIGH LETTERS, 1/2 INCH STROKE, AND NOT MORE THAN 15 FEET ON-CENTER.
(B) UNLESS OTHERWISE REQUIRED OTHERWISE BY LOCAL JURISDICTION IDENITIFY RATED PARTITIONS AND WALLS AS FOLLOWS (G.C. MUST CONFIRM VERBIAGE WITH LOCAL AHJ) :
    1-HOUR FIRE BARRIER - PROTECT ALL OPENINGS
    1-HOUR FIRE & SMOKE BARRIER - PROTECT ALL OPENINGS
    2-HOUR FIRE BARRIER - PROTECT ALL OPENINGS
    2-HOUR FIRE & SMOKE BARRIER - PROTECT ALL OPENINGS
    3-HOUR FIRE WALL - PROTECT ALL OPENINGS
    4-HOUR FIRE WALL - PROTECT ALL OPENINGS

## J DIVISION 10 - SPECIALTIES

10.01. **SPECIALTIES GENERAL:** WHEN APPLICABLE TO THE PROJECT, OWNER WILL AWARD AND WILL ASSIGN TO THE GENERAL CONTRACTOR THE CONTRACT FOR CERTAIN SPECIALTY ITEMS. CONTRACTOR SHALL BE RESPONSIBLE FOR PROCURING, SCHEDULING, AND COORDINATING THE INSTALLATION OF WORK INSTALLED UNDER THESE CONTRACTS. THE COST OF ASSIGNED CONTRACTS SHALL BE INCLUDED AS PART OF THE WORK OF THIS CONTRACT. SEE SPECIFICATION SECTION 01 1000 - "SUMMARY"; PARA. "1.07 WORK UNDER SEPARATE CONTRACTS"

10.02. **SPECIALTY CONTRACTS:** THE FOLLOWING SPECIALTY CONTRACTS WILL BE ASSIGNED TO THE GENERAL CONTRACTOR:
(A) INTERIOR AND EXTERIOR SIGNAGE PACKAGE.
(B) ROLLER WINDOW SHADE PACKAGE.
(C) INSTALLATION OF WORKFORCE EQUIPMENT.

## K DIVISION 11 - EQUIPMENT

11.01. **EQUIPMENT GENERAL:** FOR EQUIPMENT OR SYSTEMS INSTALLED UNDER SEPARATE CONTRACT, GENERAL CONTRACTOR SHALL COOPERATE FULLY WITH SEPARATE CONTRACTORS SO WORK ON THOSE CONTRACTS MAY BE CARRIED OUT SMOOTHLY, WITHOUT INTERFERING WITH OR DELAYING WORK UNDER THIS CONTRACT OR OTHER CONTRACTS. COORDINATE THE WORK OF THIS CONTRACT WITH WORK PERFORMED UNDER SEPARATE CONTRACTS. WORK TO BE PERFORMED UNDER SEPARATE CONTRACT IS AS ITEMIZED UNDER SPECIFICATION SECTION 01 1000 - "SUMMARY"; PARA. "1.07 WORK UNDER SEPARATE CONTRACTS".

## L DIVISION 12 - FURNISHINGS

12.01. **CASEWORK BASE:** PROVIDE FINISHED BASE TO MATCH MATERIAL & FINISH OF ADJACENT WALL BASE, AT TOE KICK, AT ALL EXPOSED FRONT, SIDE, & REAR FACES OF CASEWORK.

12.02. **CASEWORK SPLASH:** PROVIDE BACKSPLASH AT ALL COUNTERTOPS UNLESS OTHERWISE INDICATED ON PLAN. PROVIDE SIDESPLASH OF SAME MATERIAL, DIMENSION, AND FINISH EVERYWHERE A COUNTERTOP BACKSPLASH ABUTS A VERTICAL WALL SURFACE AT ONE OR MORE OF ITS SIDES UNLESS OTHERWISE INDICATED ON PLAN.

## M DIVISION 13 - SPECIAL CONSTRUCTION

13.01. N/A

## N DIVISION 14 - CONVEYING SYSTEMS

14.01. N/A

## O DIVISION 21 - FIRE SUPPRESSION

21.01. **FIRE PROTECTION SYSTEMS:** WHERE REQUIRED, INSTALL FIRE PROTECTION SYSTEMS IN STRICT ACCORDANCE WITH APPLICABLE CODES AND ORDINANCES, INCLUDING NFPA. ALL EQUIPMENT UTILIZED IN THE FIRE PROTECTION SYSTEM SHALL BE LISTED BY UNDERWRITER'S LABORATORIES (UL).

21.02. **FIRE PROTECTION SYSTEM DESIGN:** WHERE DESIGN OF THE FIRE PROTECTION SYSTEM IS THE RESPONSIBILITY OF THE CONTRACTOR AS REQUIRED BY A PERFORMANCE SPECIFICATION, THE SYSTEM DESIGN SHALL BE SUPERVISED BY AN INDIVIDUAL WHO IS A REGISTERED FIRE PROTECTION ENGINEER AND/OR IS CERTIFIED AT LEVEL III OR HIGHER IN FIRE PROTECTION ENGINEERING TECHNOLOGY AUTOMATIC SPRINKLER SYSTEM LAYOUT BY THE NATIONAL INSTITUTE FOR CERTIFICATION IN ENGINEERING TECHNOLOGY (NICET).

21.03. **FIRE PROTECTION PIPING:** SPRINKLER PIPING SHALL BE UNENCUMBERED BY THE WORK OF ANY OTHER TRADE THROUGHOUT THE ENTIRE BUILDING. UNDER NO CIRCUMSTANCES SHALL ANYTHING BE SUPPORTED BY, DRAPED OVER, TIED-OFF TO, OR SUSPENDED BY, SPRINKLER PIPING. GENERAL CONTRACTOR SHALL BE RESPONSIBLE TO CONTINUOUSLY MONITOR ONGOING WORK IN THE VICINITY OF SPRINKLER PIPING AND SHALL DIRECT ANY OTHER CONTRACTOR OR TRADESMAN TO IMMEDIATELY REMOVE AND RE-INSTALL ANY ITEM NOT IN COMPLIANCE WITH THIS REQUIREMENT.

## P DIVISION 22 - PLUMBING

22.01. **CONCEALED PIPING:** ALL PIPING, DUCTWORK, ELECTRICAL RACEWAYS & CONDUITS SHALL BE CONCEALED IN THE BUILDING CONSTRUCTION. THE GENERAL CONTRACTOR SHALL INCLUDE, IN THE BASE BID, REQUIRED FURRING TO CONCEAL THESE SYSTEMS WHETHER OR NOT THE FRAMING AND FURRING IS ILLUSTRATED IN THE DRAWINGS.

22.02. **SECURE PIPING:** TIE ALL PIPING "HARD" TO STRUCTURE.

22.03. **GAS PIPING EXPOSED ON ROOF:** WHERE GAS PIPING IS EXPOSED ON THE ROOF, PAINT GAS PIPING "YELLOW".

22.04. **PLUMBING FIXTURES:** CAREFULLY REVIEW THE DIMENSIONAL STANDARDS FOR INSTALLED PLUMBING FIXTURES, AND PLAN THE WORK TO ASSURE FULL COMPLIANCE OF CODE REQUIRED FIXTURE CLEARANCES.

## Q DIVISION 23 - HVAC

23.01. **MEP DEVICE/ FIXTURE COORDINATION:** COORDINATE LOCATIONS FOR DIFFUSERS, AND RETURN AIR GRILLES TO THE GREATEST EXTENT POSSIBLE IN ORDER TO MAINTAIN LIGHTING LAYOUT INDICATED IN THE DRAWINGS. MEP&FP CONTRACTORS SHALL COORDINATE WORK WITH OTHER TRADES PRIOR TO INSTALLATION.

## R DIVISION 26 - ELECTRICAL

26.01. **MEP DEVICE/ FIXTURE COORDINATION:** COORDINATE LOCATIONS FOR DIFFUSERS, AND RETURN AIR GRILLES TO THE GREATEST EXTENT POSSIBLE IN ORDER TO MAINTAIN LIGHTING LAYOUT INDICATED IN THE DRAWINGS. MEP&FP CONTRACTORS SHALL COORDINATE WORK WITH OTHER DISCIPLINES PRIOR TO INSTALLATION. ALL ELECTRICAL ITEMS INDICATED IN OR ON CABINETRY OR MILLWORK SHALL BE SUPPLIED, INSTALLED AND COORDINATED BY THE ELECTRICAL CONTRACTOR, UNLESS OTHERWISE NOTED.

26.02. **CENTER CEILING DEVICES:** CENTER LIGHTS, SUPPLY DIFFUSERS, RETURN GRILLES, SPRINKLER HEADS, ETC. IN CEILING PANELS IF NOT OTHERWISE INDICATED.

26.03. **ELECTRICAL BOXES IN RATED PARTITIONS:** WHERE ELECTRICAL BOXED ARE INSTALLED IN FIRE-RATED METAL STUD PARTITIONS, INSTALL BOXES NO LARGER THAN SIXTEEN SQUARE INCHES (116 SI) IN AREA, AND DO NOT EXCEED ONE-HUNDRED SQUARE INCHES (100 SI) OF METALLIC BOX PER ONE-HUNDRED SQUARE FEET (100 SF) OF FIRE-RATED WALL AREA. WHERE ELECTRICAL REQUIREMENTS DICTATE A HIGHER RATION, TREAT THE ELECTRICAL BOXES WITH CODE APPROVED METHOD TO ASSURE CONTINUOUS RATING. FURTHER, DO NOT INSTALL ELECTRICAL BOXES BACK-TO-BACK IN THE SAME STUD CAVITY WITHOUT APPROVED FIRE-RATED TREATMENT.

26.04. **ELECTRICAL DEVICES IN OR NEAR MILLWORK:** CAREFULLY LOCATE ELECTRICAL BOXES FOR DEVICES IN OR NEAR MILLWORK AND/OR CASEWORK TO ASSURE COORDINATED INSTALLATION. LOCATE ELECTRICAL DEVICES ABOVE COUNTERTOP SUCH THAT THE DEVICE COVER PLATE WILL NOT INTERFERE WITH SCHEDULED BACKSPLASH OR SIDESPLASH.

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ISSUE | DATE
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STATE OF ALABAMA
PATRICK SWATE

# ABBREVIATIONS

| | |
|---|---|
| ACC | ACCESSIBLE |
| ACI | AMERICAN CONCRETE INSTITUTE |
| ACT | ACOUSTICAL CEILING TILE |
| ADD | ADDENDUM |
| AFF | ABOVE FINISH FLOOR |
| ALT | ALTERNATE |
| ALUM | ALUMINUM |
| APPROX | APPROXIMATE |
| ARCH | ARCHITECT (URAL) |
| ADJ | ADJACENT |
| B/B | BACK-TO-BACK |
| BC | BASE OF CURB |
| BD | BOARD |
| BLDG | BUILDING |
| BLKG | BLOCKING |
| BM | BENCHMARK |
| BOT | BOTTOM |
| BRG | BEARING |
| BSMT | BASEMENT |
| BUR | BUILT-UP ROOF |
| BOW | BOTTOM OF WALL |
| B/W | BETWEEN |
| CAB | CABINET |
| CB | CATCH BASIN |
| C/C | CENTER TO CENTER |
| CD | CORE DECK |
| CF | CUBIC FOOT |
| CFCI | CONTRACTOR FURNISHED, CONTRACTOR INSTALLED |
| CI | CAST IRON |
| CIP | CAST IRON PIPE |
| CJ | CONSTRUCTION OR CONTROL JOINT |
| CLG | CEILING |
| CLO | CLOSET |
| CLR | CLEAR (ANCE) |
| CMP | CORRUGATED METAL PIPE |
| CMU | CONCRETE MASONRY UNIT |
| CO | CLEAN OUT |
| COL | COLUMN |
| CONC | CONCRETE |
| CONN | CONNECTION |
| CONST | CONSTRUCTION |
| CONT | CONTINUOUS OR CONTINUE |
| COORD | COORDINATE |
| CPT | CARPET (ED) |
| CSMU | CALCIUM SILICATE MASONRY UNIT |
| CT | CERAMIC TILE |
| CW | CURTAIN WALL |
| D | DRYER |
| DBL | DOUBLE |
| DEM | DEMOLISH OR DEMOLITION |
| DET | DETAIL |
| DH | DOUBLE HUNG |
| DIA | DIAMETER |
| DIAG | DIAGONAL |
| DIM | DIMENSION |
| DL | DEAD LOAD |
| DS | DOWNSPOUT |
| DWG | DRAWING |
| DF | DRINKING FOUNTAIN |
| EA | EACH |
| EF | EACH FACE |
| EIFS | EXTERIOR INSULATION FINISH SYSTEM |
| EJ | EXPANSION JOINT |
| ELEV | ELEVATION / ELEVATOR |
| ELEC | ELECTRIC (ALL) |
| ENGR | ENGINEER |
| EOP | EDGE OF PAVEMENT |
| EOS | EDGE OF SLAB |
| EQ | EQUAL |
| EW | EACH WAY |
| EWC | ELECTRIC WATER COOLER |
| EXH | EXHAUST |
| EXIST | EXISTING |
| EXP | EXPOSED |
| EXPN | EXPANSION |
| EXT | EXTERIOR |
| FBO | FURNISHED BY OTHERS |
| FD | FLOOR DRAIN |
| FEC | FIRE EXTINGUISHER & CABINET |
| FFE | FINISH FLOOR ELEVATION |
| FFW | FINISH FACE OF WALL |
| FHC | FIRE HOSE & CABINET |
| F/F | FACE TO FACE |
| FL | FLOOR |
| FLG | FLANGE |
| FND | FOUNDATION |
| FO | FACE OF |
| FOB | FACE OF BRICK |
| FOC | FACE OF CONCRETE |
| FOF | FACE OF FINISH |
| FOM | FACE OF MASONRY |
| FOS | FACE OF STUD |
| FR | FRAME (ED), (ING) |
| FRT | FIRE RETARDANT TREATED |
| FT | FOOT/FEET |
| FTG | FOOTING |
| GA | GAUGE |
| GALV | GALVANIZED |
| GB | GRAB BAR |
| GHM | GALVANIZED HOLLOW METAL |
| GI | GALVANIZED IRON |
| GWB | GYPSUM WALL BOARD |
| GYP | GYPSUM |
| H | HEIGHT |
| HC | HANDICAP |
| HM | HOLLOW METAL |
| HOD | HIGHEST OPERABLE DEVICE |
| HORIZ | HORIZONTAL |
| HP | HIGH POINT/HORSE POWER |
| HSS | HOLLOW STRUCTURAL STEEL |
| HT | HEIGHT |
| HVAC | HEATING / VENTILATION / AIR CONDITIONING |
| HW | HARDWARE |
| ID | INSIDE DIAMETER |
| IE | INVERT ELEVATION |
| IJ | ISOLATION JOINT |
| IN | INCH / INCHES |
| INSUL | INSULATION |
| JAN | JANITOR'S CLOSET |
| JG | JOIST GIRDER |
| JT | JOINT |
| K | THOUSAND |
| KIP | 1000 # |
| KJ | KEY JOINT |
| KSI | 1000 # PER SQ IN |
| LAM | LAMINATE (D) |
| LF | LINEAR FOOT |
| L | LENGTH, ANGLE |
| LAB | LABORATORY |
| LAV | LAVATORY |
| LH | LEFT HAND |
| LL | LIVE LOAD |
| LLH | LONG LEG HORIZONTAL |
| LLV | LONG LEG VERTICAL |
| LP | LOW POINT |
| LT GA | LIGHT GAUGE |
| LT | LIGHT |
| MATL | MATERIAL |
| MAX | MAXIMUM |
| MC | MISCELLANEOUS CHANNEL |
| MECH | MECHANICAL |
| MEZZ | MEZZANINE |
| MANUF | MANUFACTURE (R) |
| MH | MANHOLE |
| MIN | MINIMUM |
| MO | MASONRY OPENING |
| MULL | MULLION |
| NIC | NOT IN CONTRACT |
| NO | NUMBER |
| NOM | NOMINAL |
| NTS | NOT TO SCALE |
| O/H | OVERHEAD |
| OC | ON CENTER (S) |
| OCC | OCCUPANT (S) |
| OD | OUTSIDE DIAMETER |
| OFCI | OWNER FURNISHED, CONTRACTOR INSTALLED |
| OH | OPPOSITE HAND |
| OPG | OPENING |
| OPP | OPPOSITE |
| PJ | PRECAST JOINT |
| PL | PROPERTY LINE, PLATE |
| PLAM | PLASTIC LAMINATE |
| PNT | PAINT (ED) |
| PREFAB | PREFABRICATED |
| PREFIN | PREFINISHED |
| PREMANUF | PREMANUFACTURED |
| PSF | POUNDS PER SQUARE FOOT |
| PSI | POUNDS PER SQUARE INCH |
| PT | POINT / PRESSURE TREATED / POINT OF TANGENCY |
| PVC | POLYVINYL CHLORIDE |
| PVMT | PAVEMENT |
| PWD | PLYWOOD |
| QT | QUARRY TILE |
| RA | RETURN AIR |
| RAD | RADIUS |
| RB | RUBBER BASE |
| RCP | REFLECTED CEILING PLAN |
| RD | ROOF DRAIN |
| REBAR | REINFORCEMENT BAR |
| REF | REFRIGERATOR / REFERENCE |
| REINF | REINFORCE (D), (ING) |
| REQ'D | REQUIRED |
| RET | RETAINING |
| REV | REVISION (S), REVISED |
| RH | RIGHT HAND |
| RJ | RECESSED JOINT |
| RM | ROOM |
| RO | ROUGH OPENING |
| ROW | RIGHT OF WAY |
| RTU | ROOF TOP UNIT |
| SC | SEALED CONCRETE |
| SCHED | SCHEDULED |
| SD | STORM DRAIN |
| SECT | SECTION |
| SF | STOREFRONT |
| SIM | SIMILAR |
| SPEC | SPECIFICATION (S) |
| SQ | SQUARE |
| SS | SOLID SURFACE |
| SST | STAINLESS STEEL |
| STD | STANDARD |
| STL | STEEL |
| STOR | STORAGE |
| STRUCT | STRUCTURAL |
| SY | SQUARE YARD |
| TELE | TELEPHONE |
| TERM | TERMINATION |
| T&G | TONGUE AND GROOVE |
| TH | THICK (NESS) |
| THK | THICK (NESS) |
| TO | TOP OF |
| TOC | TOP OF CURB |
| TOGB | TOP OF GRAB BAR |
| TOF | TOP OF FOOTING |
| TOJ | TOP OF JOIST |
| TOS | TOP OF SLAB / TOP OF STEEL |
| TOW | TOP OF WALL |
| TYP | TYPICAL |
| TZ | TERRAZZO |
| UNO | UNLESS NOTED OTHERWISE |
| VB | VINYL BASE |
| VCT | VINYL COMPOSITION TILE |
| VERT | VERTICAL |
| VWC | VINYL WALL COVERING |
| W | WASHER / WIDTH / WIDE FLANGE |
| WB | WOOD BASE |
| WC | WATER CLOSET |
| WD | WOOD |
| WH | WATER HEATER |
| WIN | WINDOW |
| WP | WORK POINT / WATERPROOFING |
| WT | WEIGHT |
| W/W | WALL TO WALL |
| WWF | WELDED WIRE FABRIC |
| W/ | WITH |
| W/O | WITHOUT |

# ANNOTATION SYMBOLS & TAGS

ROOM NAME
101
**ROOM REFERENCE TAG**

**COLUMN LINES:**
CONSECUTIVE NUMBERS ARE USED FOR COLUMN LINES RUNNING NORTH & SOUTH

CONSECUTIVE LETTERS ARE USED FOR COLUMN LINES RUNNING EAST & WEST

FACE OF MASONRY OR FACE OF GIRDER

677.52
**ELEVATION TAG:**
677.52 - ELEVATION (FT)

1 / A1.01
**EXTERIOR ELEVATION TAG:**
ELEVATION 1 ON SHEET A101

3 / A1.01
**INTERIOR ELEVATION TAG:**
INTERIOR ELEVATION 3 ON SHEET A101

**FF&E:**
BY OTHERS

1
**REVISION CLOUD AND TAG:**
USED TO INDICATE SCOPE OF CURRENT REVISION

OG
**WALL TAG:**
INTERIOR WALL TYPE OG
(SEE PARTITION LEGEND)

101
**DOOR TAG:**
DOOR NUMBER 101
(SEE FLOOR PLANS AND DOOR SCHEDULE)

C-1
**CURTAINWALL TAG:**
CURTAINWALL TYPE 1
(SEE EXTERIOR ELEVATIONS AND GLAZING SCHEDULE)

S-1
**STOREFRONT TAG:**
STOREFRONT TYPE 1
(SEE EXTERIOR ELEVATIONS AND GLAZING SCHEDULE)

W-1
**WINDOW TAG:**
WINDOW TYPE 1
(SEE EXTERIOR ELEVATIONS AND GLAZING SCHEDULE)

L-1
**LOUVER TAG:**
LOUVER TYPE L1
(SEE LOUVER SCHEDULE)

TA01
**SPECIALTY EQUIPMENT TAG:**
SEE SPECIALTY EQUIPMENT SCHEDULE

G1
**PLAN KEYNOTE TAG:**
KEYNOTE NUMBER
SEE PLAN KEYNOTE SCHEDULE

1 / A1.01
**BUILDING SECTION TAG:**
SECTION 1 ON SHEET A101

1 / A1.01
**WALL SECTION TAG:**
SECTION 1 ON SHEET A101

1 / A1.01
**ENLARGED DETAIL TAG:**
DETAIL 1 ON SHEET A101

CDS#
#
HEIGHT #
DEPTH #
WIDTH #
**CASEWORK TAG**

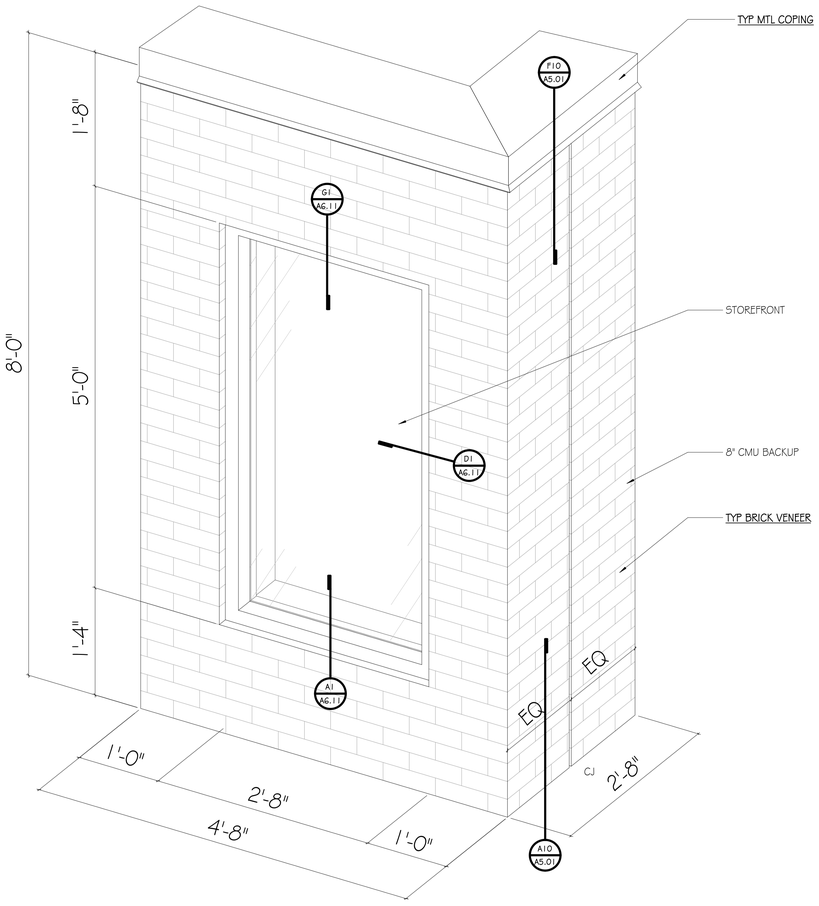
| | | |
|---|---|---|
| PRIMARY / ACCENT WALL FINISH | PNT-1 | PNT-5 |
| BASE FINISH | RB-1 | |
| FLOOR FINISH | LVT-1 | |
| CASEWORK / COUNTERTOP FINISH | PL-3 | SS-1 |

**INTERIOR FINISH TAG**

PLAN NORTH
**NORTH ARROW:**
ARCHITECTURAL PLAN ORIENTATION

TRUE NORTH
**NORTH ARROW:**
CIVIL ORIENTATION

# MOCKUP WALL




**MOCK UP WALL**

## VICINITY MAP

TRUE NORTH

## LOCATION MAP

TRUE NORTH

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| ISSUE | DATE |
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ACCS 2025.162.RSTCC
GMC ABHM250047

STATE OF ALABAMA
PATRICK SWATEK
8969
REGISTERED ARCHITECT

**GENERAL INFORMATION & MOCKUP WALL**

**G0.03**

TEMPLATE VERSION: 2025.1
5/27/2026 4:15:58 PM

# ACCESSIBLE ELEMENTS NOTES

01. **ACCESSIBILITY STANDARDS:** CONTRACTOR MUST BE FAMILIAR WITH AND, SHALL MAINTAIN ON THE JOB SITE, A COPY OF THE CURRENT ADAAG STANDARDS AND IBC CHAPTER 11 ACCESSIBILITY REQUIREMENTS (OR FLORIDA BUILDING CODE ACCESSIBILITY) AS APPLICABLE. DURING CONSTRUCTION THE GENERAL CONTRACTOR SHALL BE MINDFUL OF THESE ACCESSIBILITY REQUIREMENTS INCLUDING MOUNTING HEIGHTS AND FLOOR MANEUVERING CLEARANCES AND, IN THE EVENT THAT FIELD CONDITIONS WILL NOT ALLOW FOR ACCESSIBILITY REQUIREMENTS TO BE MAINTAINED IN A PARTICULAR CONDITION OR INSTALLATION, CONTRACTOR SHALL NOTIFY THE ARCHITECT FOR FURTHER DIRECTION PRIOR TO PROCEEDING.

02. **ADA DEVICES:** ALL DEVICES AND FIXTURES DEPICTED HEREIN AND WHERE NOTED AS "ADA" OR "ACCESSIBLE" SHALL AT MINIMUM BE INSTALLED IN STRICT ACCORDANCE WITH THE AMERICANS WITH DISABILITIES ACT AND APPLICABLE BUILDING CODES. WHERE ACCESSIBILITY REQUIREMENTS MAY VARY BY JURISDICTION, FOLLOW THE MOST STRINGENT REQUIREMENTS.

03. **ADA MOUNTING HEIGHTS:** ALL MOUNTING HEIGHTS SHOWN ON THIS PAGE ARE TO BE MEASURED FROM THE TOP OF FLOOR FINISH (i.e. NOT FROM SUBFLOOR). THE CONTRACTOR SHALL ACCOUNT FOR THE THICKNESS OF THE SPECIFIED FLOOR FINISH WHEN ESTABLISHING THE MOUNTING HEIGHTS OF ACCESSIBLE ITEMS.

04. **ADA PLAN DIMENSIONS:** ALL PLAN DIMENSIONS SHALL BE MEASURED FROM THE FINISH FACE OF SCHEDULED WALL FINISH. THE CONTRACTOR SHALL ACCOUNT FOR THE THICKNESS OF THE SPECIFIED WALL FINISH e.g., WALL TILE, WHEN ESTABLISHING PLAN DIMENSIONS AND CLEARANCES FOR ACCESSIBLE ELEMENTS.

05. **PLUMBING ELEMENTS AND FIXTURES:** SEE PLUMBING DRAWINGS AND SPECIFICATIONS FOR REQUIRED LOCATIONS AND MOUNTING HEIGHT OF PLUMBING ELEMENTS AND FIXTURES. SHOULD CONFLICT EXIST BETWEEN MOUNTING HEIGHTS AND/OR CLEARANCES INDICATED HEREIN AND THE REQUIREMENTS OF THE PLUMBING ENGINEER, THE GENERAL CONTRACTOR SHALL NOTIFY THE ARCHITECT FOR CLARIFICATION PRIOR TO ROUGH-IN.

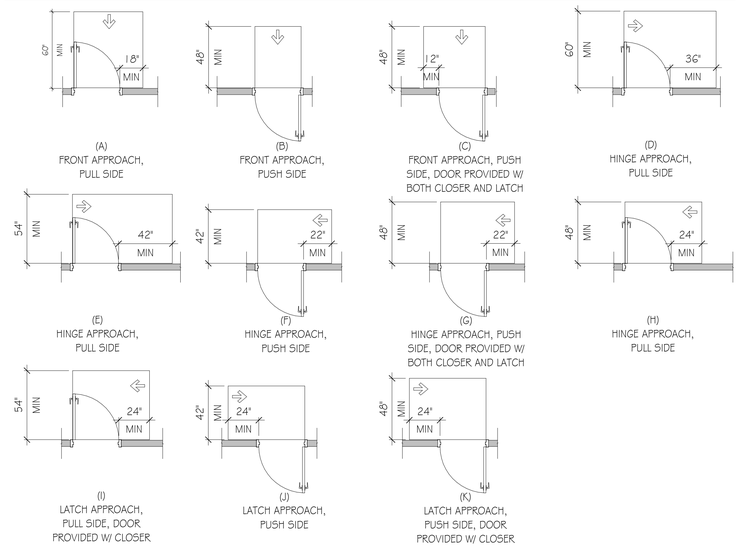
06. **ELECTRICAL DEVICES:** SEE ELECTRICAL DRAWINGS AND SPECIFICATIONS FOR REQUIRED MOUNTING HEIGHT OF ELECTRICAL DEVICES AND FIXTURES. SHOULD CONFLICT EXIST BETWEEN MOUNTING HEIGHTS INDICATED HEREIN AND THE REQUIREMENTS OF THE ELECTRICAL ENGINEER, THE GENERAL CONTRACTOR SHALL NOTIFY THE ARCHITECT FOR CLARIFICATIONPRIOR TO ROUGH-IN.

# ABBREVIATIONS AND ACRONYMS

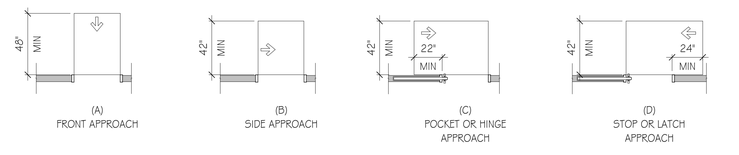
| | |
|---|---|
| AFF . . . . . ABOVE FINISHED FLOOR | MAX . . . . . MAXIMUM |
| BOGB . . . . . BOTTOM OF GRAB BAR | MIN . . . . . MINIMUM |
| FFE . . . . . FINISHED FLOOR ELEVATION | TOGB . . . . . TOP OF GRAB BAR |
| FFW . . . . . FINISH FACE OF WALL | WC . . . . . WATER CLOSET |
| FO . . . . . FACE OF | W/ . . . . . WITH |
| GB . . . . . GRAB BAR | W/O . . . . . WITHOUT |
| HOD . . . . . HIGHEST OPERABLE DEVICE | |

# DOOR AND GATE MANEUVERING CLEARANCES

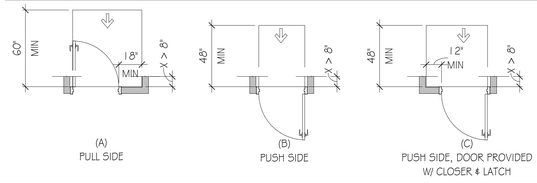
## 404.2.4.1 MANEUVERING CLEARANCES AT MANUAL SWINGING DOORS AND GATES




## 404.2.4.2 MANEUVERING CLEARANCES AT DOORWAYS WITHOUT DOORS OR GATES, MANUAL SLIDING DOORS, AND MANUAL FOLDING DOORS

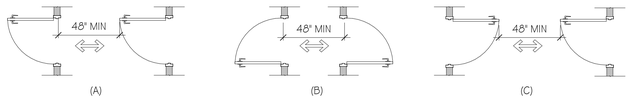



## 404.2.4.3 RECESSED DOORS AND GATES




404.2.4.3 RECESSED DOORS AND GATES. A DOOR CAN BE RECESSED DUE TO WALL THICKNESS OR BECAUSE OF CASEWORK AND OTHER FIXED ELEMENTS ADJACENT TO THE DOORWAY. THIS PROVISION MUST BE APPLIED WHEREVER DOORS ARE RECESSED.

## 404.2.4.6 DOORS IN SERIES AND GATES IN SERIES

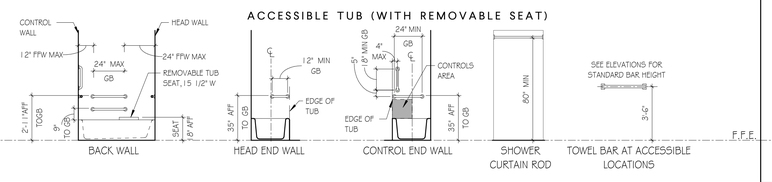



# ACCESSIBLE PLUMBING ELEMENTS AND FACILITIES - ELEVATION VIEW

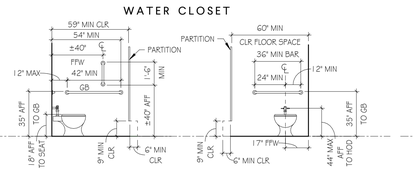
SEE G1.12 FOR PLAN DETAILS

**IMPORTANT NOTE:** ALL HEIGHTS GIVEN BELOW ARE FROM FACE OF FLOOR FINISH (NOT FROM FINISH SLAB)

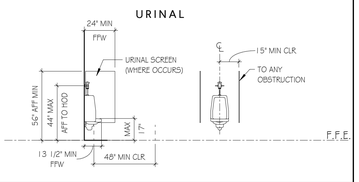
### ACCESSIBLE TUB (WITH REMOVABLE SEAT)



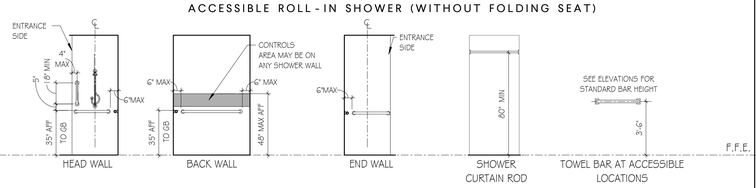

### WATER CLOSET



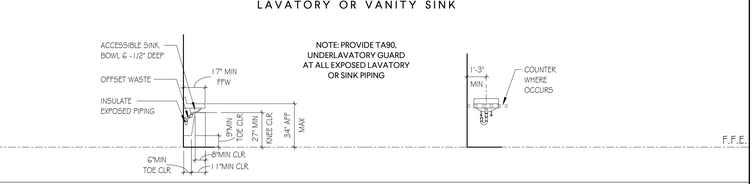

### URINAL



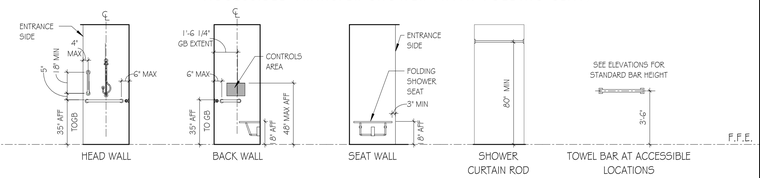

### ACCESSIBLE ROLL-IN SHOWER (WITHOUT FOLDING SEAT)



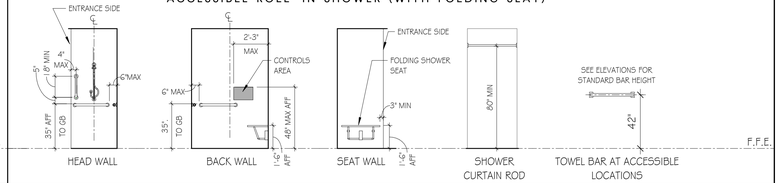

### LAVATORY OR VANITY SINK



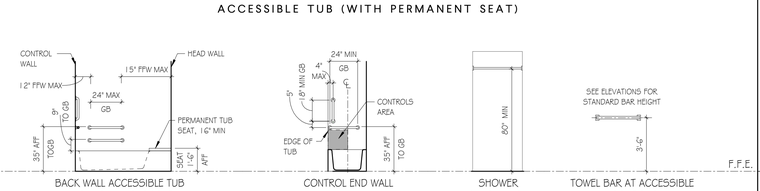

### ACCESSIBLE TRANSFER SHOWER (WITH FOLDING SEAT)



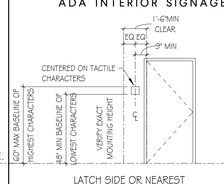

### ACCESSIBLE ROLL-IN SHOWER (WITH FOLDING SEAT)



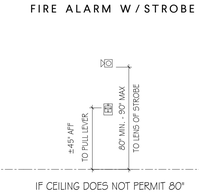

### ACCESSIBLE TUB (WITH PERMANENT SEAT)



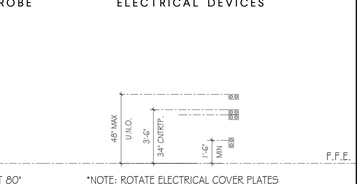

### ADA INTERIOR SIGNAGE




### FIRE ALARM W/ STROBE

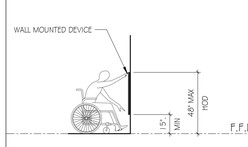



### ELECTRICAL DEVICES

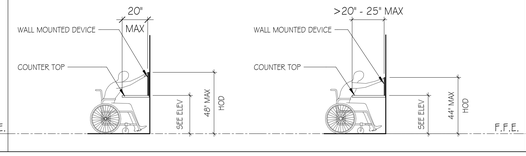



# TYPICAL REACH RANGES

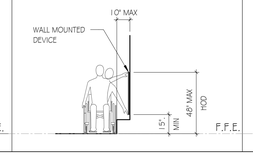
### UNOBSTRUCTED FORWARD REACH



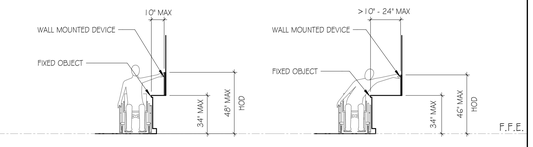

### OBSTRUCTED HIGH FORWARD REACH




### UNOBSTRUCTED SIDE REACH

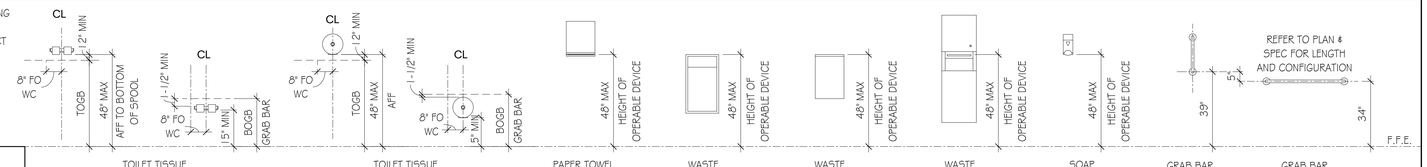



### OBSTRUCTED HIGH SIDE REACH

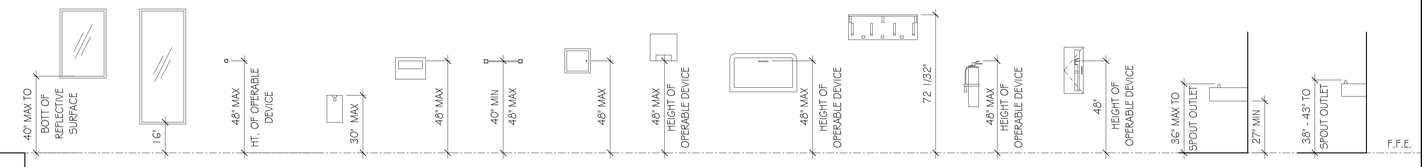



# TYPICAL ACCESSIBLE MOUNTING HEIGHTS

VERIFY EXACT MOUNTING HEIGHT OF SUBMITTED DEVICE WITH ARCHITECT




| TOILET ACCESSORY TYPE | TOILET TISSUE HOLDER | TOILET TISSUE DISPENSER | PAPER TOWEL DISPENSER | WASTE RECEPTACLE | WASTE RECEPTACLE | WASTE RECEPTACLE | SOAP DISPENSER | GRAB BAR VERTICAL | GRAB BAR HORIZONTAL |
|---|---|---|---|---|---|---|---|---|---|
| DRAWING DESIGNATION | TA01<br>TA50 | TA02 | TA03<br>TA04<br>TA05<br>TA06<br>TA07<br>TA08<br>TA09<br>TA10 | TA11<br>RECESSED | TA12<br>TA13<br>SURFACE MOUNTED | TA14<br>TA15<br>TA16<br>RECESSED | TA17<br>TA19 | 18" TA23 or TA74 | 18" TA23 or TA74<br>36" TA24 or TA65 or TA75<br>42" TA25 or TA66 or TA76<br>48" TA26 |




| TOILET ACCESSORY TYPE | MIRROR ADA | MIRROR FULL LENGTH | ROBE HOOK AT ACCESSIBLE LOCATIONS (SEE ELEVATIONS FOR STANDARD HOOK HT) | SANITARY NAPKIN DISPOSAL | TOILET SEAT COVER DISPENSER | TOWEL BAR OR TOILETRY SHELF | SPECIMEN PASS-THRU CABINET | HAND DRYER | BABY CHANGING STATION | MOP AND BROOM HOLDER | FIRE EXTINGUISHER | FIRE EXTINGUISHER CABINET | E.W.C. (ACCESSIBLE) | E.W.C. (STANDARD) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DRAWING DESIGNATION | TA30<br>TA31<br>TA77 | TA32 | TA33 | TA36 | TA38 | TA53 T.B.<br>TA54 T.S. | TA60 | TA80 | TA85 | TA60 | FE | FEC | | |

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| ISSUE | DATE |
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| IFB SET | 05/27/2026 |

DRAWN BY: Author
CHECKED BY: Checker

**REID STATE CC WELDING & INDUSTRIAL RENO.**
100 AL-83, Evergreen, AL 36401

ACCS 2025 162 RSTCC
GMC ABHM250047

STATE OF ALABAMA
PATRICK SWATEK
8969
REGISTERED ARCHITECT

**ACCESSIBILITY DATA**

G0.11

# ACCESSIBLE PLUMBING LAYOUTS - ADAAG / ANSI

## ACCESSIBLE TOILET STALL OR COMPARTMENT LAYOUTS




**WHEELCHAIR ACCESS. STALL**

PLAN DESIGNATION **ST1**




**STANDARD TOILET STALL**

PLAN DESIGNATION **ST6**




**ACCESSIBLE URINAL STALL**

PLAN DESIGNATION ST8




**STANDARD URINAL STALL**

PLAN DESIGNATION ST7




ELEVATION




PLAN

**FOUNTAIN / COOLER - HI-LO**

NOTES:
1. LOCATE FLUSH ACTIVATION ON WIDE SIDE AT ALL TOILETS - LOCATE FLUSH VALVE BENEATH ADJACENT GRAB BARS.
2. SANITARY NAPKIN DISPOSALS TO BE PROVIDED AT ALL FEMALE, UNISEX, & FAMILY TOILETS


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PATRICK SWATEK
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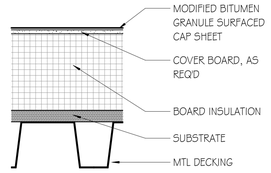
REGISTERED ARCHITECT

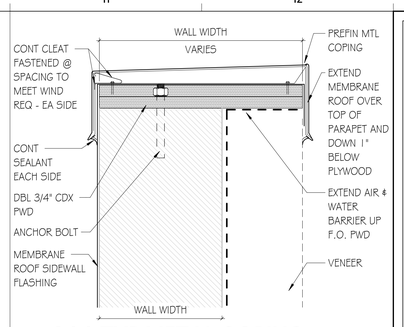
**ACCESSIBLE PLUMBING LAYOUTS**

G0.12

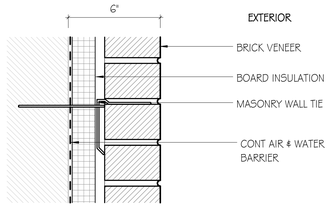
TEMPLATE VERSION: 2025.1
5/27/2026 4:18:01 PM



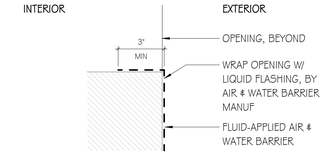

## J9 TYP MOD-BIT ROOF
SCALE: 3" = 1'-0"



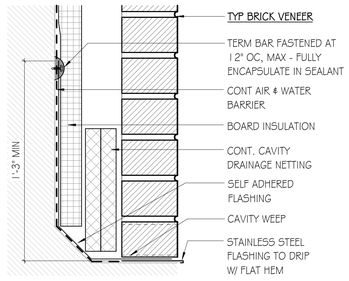

## J11 TYP METAL COPING
SCALE: 3" = 1'-0"



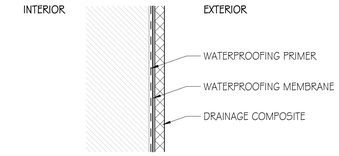

## G9 TYP BRICK VENEER
SCALE: 3" = 1'-0"



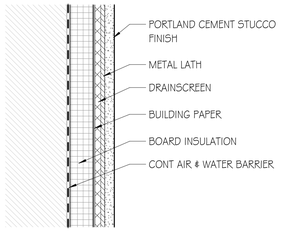

## G11 TYP BARRIER @ OPENING
SCALE: 3" = 1'-0"



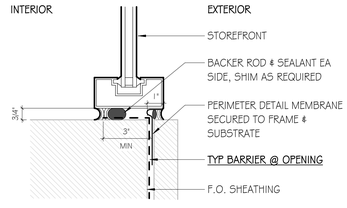

## E9 TYP THRU-WALL FLASHING
SCALE: 3" = 1'-0"



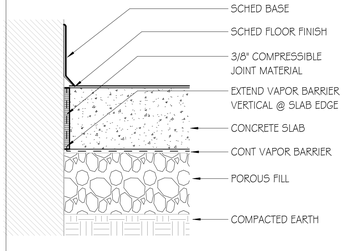

## E11 TYP VERT WATERPROOFING
SCALE: 3" = 1'-0"




## C9 TYP EIFS
SCALE: 3" = 1'-0"




## C11 TYP SF OPENING
SCALE: 3" = 1'-0"




## A11 TYP SLAB ON GRADE
SCALE: 3" = 1'-0"

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100 AL-83, Evergreen, AL 36401

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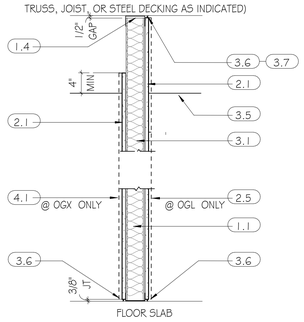
STATE OF ALABAMA
PATRICK SWATEK
8969
REGISTERED ARCHITECT

**TYPICAL CONSTRUCTION DETAILS**

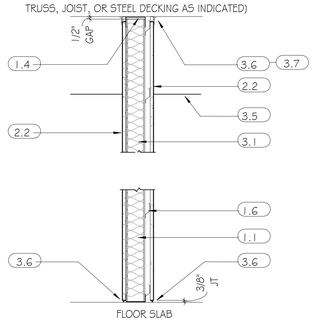
# G0.20

5/27/2026 4:16:02 PM TEMPLATE VERSION: 2025.1



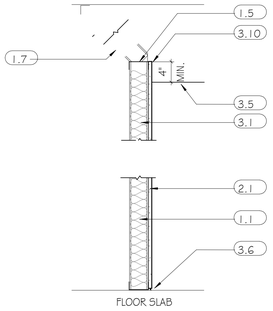

| | |
|---|---|
| OG | 0 HR. - GYPSUM |
| OG5 | 0 HR. - GYPSUM - SMOKE RESISTIVE |
| OGX | 0 HR. - GYPSUM - XTRA LAYER GYP ONE SIDE |
| OGL | 0 HR. - GYPSUM - LEAD LINED |

| DRAWING MARK | DESCRIPTION | U.L. # / STC | N/A / 47 |
|---|---|---|---|



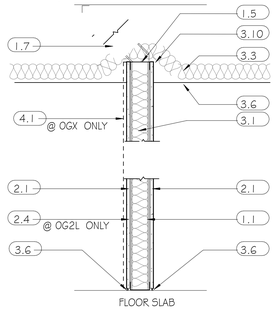

| | |
|---|---|
| OGA | 0 HR. - GYPSUM - ACOUSTIC |

| DRAWING MARK | DESCRIPTION | U.L. # / STC | N/A / 58 |
|---|---|---|---|



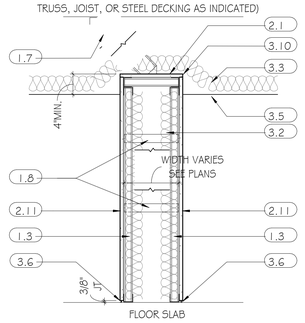

| | |
|---|---|
| OG1 | 0 HR. - GYPSUM - 1 SIDED |

| DRAWING MARK | DESCRIPTION | U.L. # / STC | ---- / -- |
|---|---|---|---|



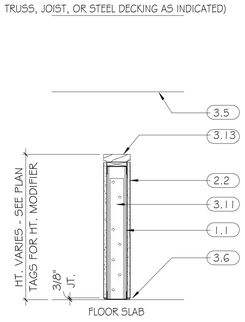

| | |
|---|---|
| OG2 | 0 HR. - GYPSUM - 2 SIDED |
| OG2L | 0 HR. - GYPSUM - 2 SIDED - LEAD LINED |
| OG2X | 0 HR. - GYPSUM - 2 SIDED - XTRA LAYER GYP ONE SIDE |

| DRAWING MARK | DESCRIPTION | U.L. # / STC | N/A / 52 |
|---|---|---|---|



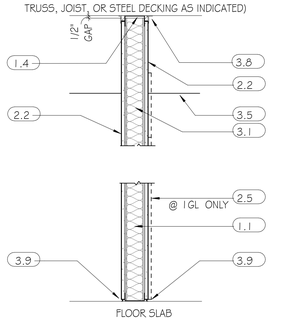

| | |
|---|---|
| OGC | 0 HR. - GYPSUM - CHASE |

| DRAWING MARK | DESCRIPTION | U.L. # / STC | N/A / -- |
|---|---|---|---|



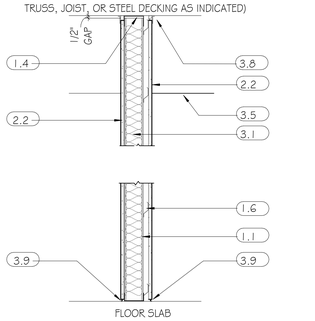

| | |
|---|---|
| OGP /HT | 0 HR. - GYPSUM - PARTIAL HEIGHT |

| DRAWING MARK | DESCRIPTION | U.L. # / STC | N/A / -- |
|---|---|---|---|



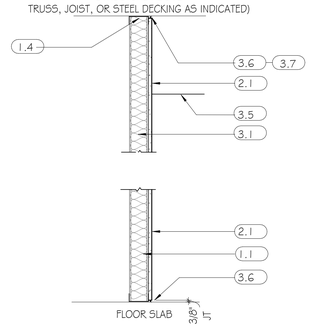

| | |
|---|---|
| 1G | 1 HR. - GYPSUM |
| 1G5 | 1 HR. - GYPSUM - SMOKE BARRIER |
| 1GL | 1 HR. - GYPSUM - LEAD LINED |

| DRAWING MARK | DESCRIPTION | U.L. # / STC | U465 / 49 |
|---|---|---|---|



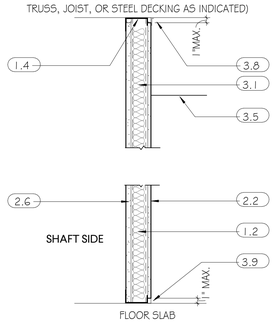

| | |
|---|---|
| 1GA | 1 HR. - GYPSUM - ACOUSTIC |

| DRAWING MARK | DESCRIPTION | U.L. # / STC | U419 / 58 |
|---|---|---|---|



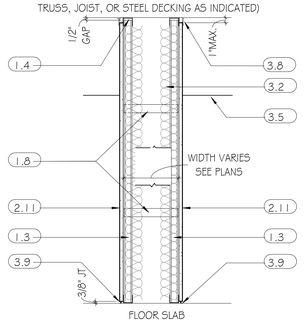

| | |
|---|---|
| OG1D | 0 HR. - GYPSUM - 1 SIDED TO DECK |

| DRAWING MARK | DESCRIPTION | U.L. # / STC | ---- / -- |
|---|---|---|---|



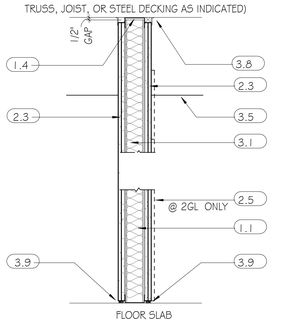

| | |
|---|---|
| 1S | 1 HR. - SHAFTWALL |
| 1S5 | 1 HR. - SHAFTWALL - SMOKE BARRIER |

| DRAWING MARK | DESCRIPTION | U.L. # / STC | U415-A / 52 |
|---|---|---|---|



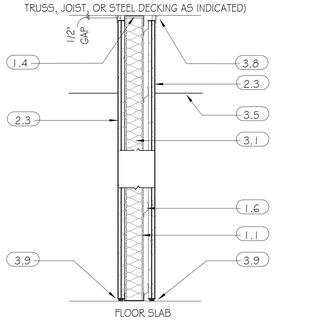

| | |
|---|---|
| 1GC | 1 HR. - GYPSUM - CHASE |

| DRAWING MARK | DESCRIPTION | U.L. # / STC | U445 / 62 |
|---|---|---|---|



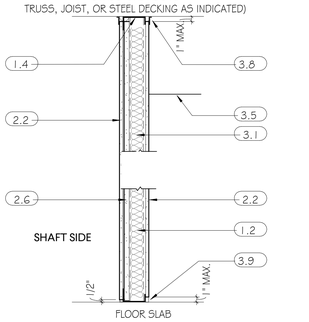

| | |
|---|---|
| 2G | 2 HR. - GYPSUM |
| 2G5 | 2 HR. - GYPSUM - SMOKE BARRIER |
| 2GL | 2 HR. - GYPSUM - LEAD LINED |

| DRAWING MARK | DESCRIPTION | U.L. # / STC | U411 / 52 |
|---|---|---|---|



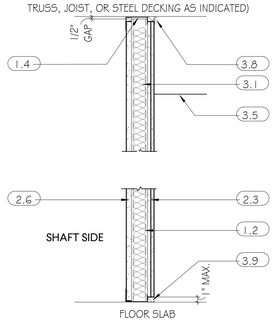

| | |
|---|---|
| 2GA | 2 HR. - GYPSUM - ACOUSTIC |

| DRAWING MARK | DESCRIPTION | U.L. # / STC | U454 / 61 |
|---|---|---|---|



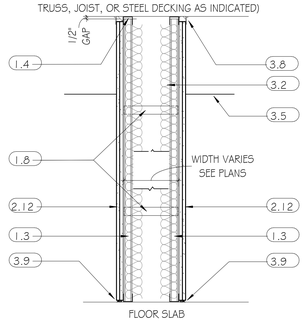

| | |
|---|---|
| 25X | 2 HR. - SHAFTWALL - EXIT STAIR |
| 25SX | 2 HR. - SHAFTWALL - SMOKE BARRIER - EXIT STAIR |

| DRAWING MARK | DESCRIPTION | U.L. # / STC | U415-E / 52 |
|---|---|---|---|



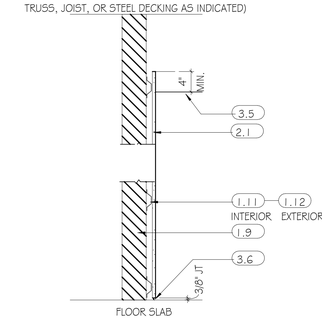

| | |
|---|---|
| 2S | 2 HR. - SHAFTWALL |
| 2S5 | 2 HR. - SHAFTWALL - SMOKE BARRIER |

| DRAWING MARK | DESCRIPTION | U.L. # / STC | U415-B / 52 |
|---|---|---|---|



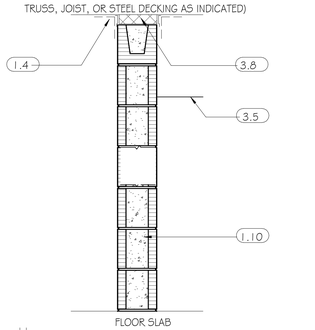

| | |
|---|---|
| 2GC | 2 HR. - GYPSUM - CHASE |

| DRAWING MARK | DESCRIPTION | U.L. # / STC | U444 / 62 |
|---|---|---|---|




| | |
|---|---|
| OGF | 0 HR. - GYPSUM - FURRED |
| OGFX | 0 HR. - GYPSUM - FURRED - EXTERIOR |

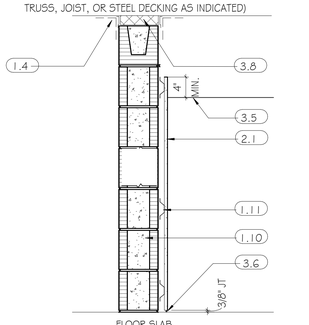
| DRAWING MARK | DESCRIPTION | U.L. # / STC | N/A / N/A |
|---|---|---|---|




| | |
|---|---|
| 0M | 0 HR. - CMU |
| 1M | 1 HR. - CMU |
| 2M | 2 HR. - CMU |

2M ONLY

| DRAWING MARK | DESCRIPTION | U.L. # / STC | U905 / 50 |
|---|---|---|---|




| | |
|---|---|
| 0MG | 0 HR. - CMU - GYPSUM FURRED |
| 1MG | 1 HR. - CMU - GYPSUM FURRED |
| 2MG | 2 HR. - CMU - GYPSUM FURRED |

| DRAWING MARK | DESCRIPTION | U.L. # / STC | U905 / 51 |
|---|---|---|---|

# GENERAL NOTES - PARTITIONS

1. UL LISTED ASSEMBLIES
   - A. WHERE UL ASSEMBLY NUMBERS ARE REFERENCED ABOVE, PARTITIONS SHALL BE CONSTRUCTED IN STRICT COMPLIANCE WITH REQUIREMENTS SET FORTH BY THE UL FIRE RESISTANCE DIRECTORY. SEE UL ASSEMBLY DRAWINGS (BEGINNING WITH DRAWING G1.23) FOR DETAILED UL ASSEMBLY REQUIREMENTS. NO DEVIATION SHALL BE ALLOWED WITHOUT PRIOR WRITTEN APPROVAL BY THE ARCHITECT.
2. FIRE BARRIERS, FIRE PARTITIONS, & SMOKE BARRIERS (FIRE-RATED)
   - A. ALL PERIMETER JOINTS MUST BE PROTECTED BY UL LISTED FIRE-RESISTANT JOINT SYSTEMS.
   - B. ALL PENETRATIONS OF RATED ASSEMBLIES MUST BE PROTECTED BY UL LISTED THROUGH-PENETRATION FIRESTOPPING ASSEMBLIES.
   - C. FIRE DAMPERS MUST PROTECT HVAC DUCT PENETRATIONS.
   - D. IDENTIFY FIRE WALLS, SMOKE BARRIERS, ETC., IN ACCESSIBLE CONCEALED FLOOR, FLOOR-CEILING OR ATTIC SPACES, WITH STENCILED LETTERING IN COMPLIANCE WITH GENERAL NOTE 9.08 FIRE-RATED PARTITIONS AND FIRE-RATED SMOKE BARRIER IDENTIFICATION ON DRAWING G1.02, GENERAL NOTES.
3. SMOKE PARTITIONS (NON-RATED)
   - A. ALL SMOKE PARTITIONS SHALL BE CONSTRUCTED SO AS TO RESIST THE PASSAGE OF SMOKE AND SHALL MEET THE CONTINUITY REQUIREMENTS DEFINED BY IBC 710.4
   - B. ALL PERIMETER JOINTS MUST BE SEALED WITH AIRTIGHT SEALANT APPLICATION.
   - C. ALL PIPING, ELECTRICAL, AND DUCT PENETRATIONS MUST BE SEALED WITH AIRTIGHT SEALANT APPLICATION.
4. SOUND INSULATION
   - A. INSULATION THICKNESS SHALL MATCH CAVITY DEPTH UNLESS NOTED OTHERWISE.
   - B. INSULATE BEHIND RECESSED ITEMS IN ANY SCHEDULED ACOUSTIC PARTITIONS.
5. ACOUSTICAL SEALANT
   - A. AT ALL GYP BOARD AND METAL STUD PARTITIONS: REQUIRED AT BOTTOM AND TOP RUNNERS AND AT WALL ANGLES WHERE DISSIMILAR MATERIALS MEET (SEE DETAILS).
   - B. AT SCHEDULED ACOUSTIC PARTITIONS: AIRTIGHT SEAL IS REQUIRED AT ALL PENETRATIONS.
   - C. ELECTRICAL AND OTHER BOXES TO BE WRAP-SEALED (SEE DETAILS).
6. PARTITION COORDINATION WITH OTHER TRADES
   - A. GENERAL CONTRACTOR AND SUBCONTRACTORS MUST COMPLY WITH GENERAL NOTE 9.07, PARTITION COORDINATION WITH OTHER TRADES ON DRAWING G1.02, GENERAL NOTES.

## IMPORTANT NOTE

1. GENERAL NOTE REGARDING THE USE OF THIS DRAWING
   - A. THIS DRAWING ILLUSTRATES THE FULL ARRAY OF STANDARD PARTITION TYPES USED BY GMC AND IS INTENDED TO BE PUBLISHED IN ITS ENTIRETY FOR REFERENCE .....HOWEVER,....BE ADVISED THAT NOT ALL PARTITION TYPES SHOWN ON THIS DRAWING WILL BE USED IN EVERY PROJECT.
   - B. PARTITION TYPES USED IN THIS PROJECT ARE AS TAGGED AND/OR AS NOTED ON THE FLOOR PLANS.
   - C. DO NOT SPEND TIME SEARCHING FOR UNUSED PARTITION TYPES ON THE FLOOR PLANS AS YOU WILL NOT FIND THEM.

# NUMBERED NOTES

- 1.1 METAL STUDS 16" OC. DOUBLE-STUD JAMBS FULL HT. AT DOOR OPENINGS
- 1.2 SHAFTWALL STUDS 24" OC
- 1.3 PLUMBING CHASE. 1-5/8" METAL STUDS 16" OC IN TWO ROWS. WIDTH VARIES
- 1.4 DEFLECTION TRACK (0.0329" MTL. THICKNESS). MAINTAIN MIN. 1/2" STUD GAP
- 1.5 CONTINUOUS TOP TRACK (0.0329" METAL THICKNESS)
- 1.6 RESILIENT CHANNELS 24" OC VERTICAL
- 1.7 STUD BRACING MIN. 48 IN. OC (24" OC AT WALL-HUNG CABINETS)
- 1.8 STEEL STUD OR RUNNER BRACING, FULL WIDTH OF CAVITY, 48" OC VERT. MAX
- 1.9 NEW OR EXISTING SUBSTRATE
- 1.10 CMU (UL LISTED WHERE APPLICABLE). SEE STRUCTURAL FOR REINFORCING, LINTEL, AND TOP BRACING REQUIREMENTS
- 1.11 AT INTERIOR FURRING: 7/8 IN. HAT-SHAPED METAL FURRING
- 1.12 AT EXTERIOR (PERIMETER) FURRING: 2 IN. METAL Z-FURRING W/ MIN. R-8 BOARD INSUL.
- 2.1 ONE LAYER 5/8 IN. GYP. BD
- 2.2 ONE LAYER 5/8 IN. TYPE 'X' GYP. BD
- 2.3 TWO LAYERS 5/8 IN. TYPE 'X' GYP. BD
- 2.4 LEAD LINED GYP. BD. TO MIN. 7'-6" AFF ON ROOM SIDE. INSTALL 5/8" GYP. BD. ABOVE 7'-6" UP TO SCHEDULED PARTITION HEIGHT
- 2.5 ADD'L. LAYER LEAD-LINED GYP. BD. TO MIN. 7'-6" AFF ON ROOM SIDE. INSTALL 5/8" GYP. BD. ABOVE 7'-6" UP TO SCHEDULED PARTITION HEIGHT
- 2.6 1 IN. THICK GYPSUM LINER PANEL
- 2.7 ONE LAYER 5/8 IN. TYPE 'X' GYP. BD. EACH SIDE (ABOVE CEILING)
- 2.8 TWO LAYERS 5/8 IN. TYPE 'X' GYP. BD. EACH SIDE (ABOVE CEILING)
- 2.9 & 2.10 NOT USED
- 2.11 ONE LAYER 5/8" TYPE 'X' GLASS-MAT BACKER BOARD WITH THIN-SET TILE UP TO CEILING. TRANSITION TO 5/8" TYPE 'X' MR GYP BOARD FROM ABOVE CEILING TO STRUCTURE ABOVE
- 2.12 ONE LAYER 5/8" TYPE 'X' MR GYP. BD. PLUS ONE LAYER 5/8" TYPE 'X' GLASS-MAT BACKER BOARD WITH THIN-SET TILE UP TO CEILING. TRANSITION TO 5/8" TYPE 'X' MR GYP BOARD FROM ABOVE CEILING TO STRUCTURE ABOVE
- 3.1 SOUND ATTENUATION BATT INSULATION. 3.5" THICK
- 3.2 SOUND ATTENUATION BATT INSULATION BOTH SIDES OF STUD CAVITY. 3.5" THICK
- 3.3 SOUND ATTENUATION BATT INSULATION. 3.5" THICK. DRAPE OVER & EXTEND 4 FT. EACH SIDE OF PARTITION
- 3.4 CEILING. SEE CEILING PLAN FOR TYPES / LOCATIONS
- 3.5 ACOUSTICAL CEILING PANELS. WHERE PANELS W/ COMBINED NRC/CAC RATINGS OF .70/35 (OR BETTER) ARE USED, DRAPED INSULATION MAY BE OMITTED
- 3.6 ACOUSTICAL SEALANT JOINT. PROVIDE CONT. BEAD UNDER EACH LAYER GYP BD
- 3.7 ACOUSTICAL SEALANT JOINT. AT FLUTED DECKS, COPE GYP. BD. TO UNDERSIDE OF DECK. FILL VOIDS W/ INSULATION. APPLY ACOUSTICAL SEALANT CONT. AT JOINT
- 3.8 UL LISTED FIRE-RESISTANCE RATED HW (HEAD OF WALL) JOINT
- 3.9 UL LISTED FIRE-RESISTANCE RATED BW (BOTTOM OF WALL) JOINT
- 3.10 EXTEND GYP BOARD TO TOP OF TRACK TO ESTABLISH A DRAFT STOP ASSEMBLY. CONDUIT TURNOUTS AND ELECTRICAL BOXES MUST STAND CLEAR OF MET. STUDS TO ALLOW FOR APPLICATION OF UNINTERRUPTED GYPSUM MEMBRANE
- 3.11 STEEL BENT PLATE END WALL SUPPORT. SEE JAMB/END POST DETAIL ON G1.22
- 3.12 WALL CAP. SEE DETAILS ELSEWHERE ON THESE DRAWINGS
- 4.1 INSTALL 2 LAYERS 5/8" GYP BOARD ON RADIOGRAPHY ROOM SIDE OF PARTITION (EXTEND 2ND LAYER UP TO 4" ABOVE CEILING)

# PARTITION KEY

| | | | |
|---|---|---|---|
| TYPE 1G<br>3 5/8" METAL STUDS | 1G | 1G<br>6" | TYPE 1G<br>6" METAL STUDS |
| TYPE 1S<br>4" METAL CH STUDS | 1S | 1S<br>2.5" | TYPE 1S<br>2.5" METAL CH STUDS |
| TYPE 0M<br>8" CMU | 0M | 0M<br>4" | TYPE 0M<br>4" CMU |
| TYPICAL PARTITION<br>(SHOWN THUS) | | VARIANT PARTITION<br>(SHOWN THUS) | |

**STANDARD FRAMING**
3 5/8" METAL STUDS •
4" METAL CH STUDS •
8" CMU •

PARTITIONS TO BE STANDARD FRAMING EXCEPT WHERE VARIANT FRAMING SIZE IS INDICATED

**VARIANT FRAMING**
• WHERE APPLICABLE, SIZE IS SHOWN IN INCHES BELOW PARTITION TYPE

GMC
Goodwyn Mills Cawood, LLC
2400 5th Avenue South, Suite 200
Birmingham, AL 35233
T 205.879.4462
GMCNETWORK.COM

ISSUE DATE
IFB SET 05/27/2026

DRAWN BY: Author
CHECKED BY: Checker

**REID STATE CC WELDING & INDUSTRIAL RENO.**
100 AL-83, Evergreen, AL 36401

ACCS 2025.162.RSTCC
GMC ABHM250047

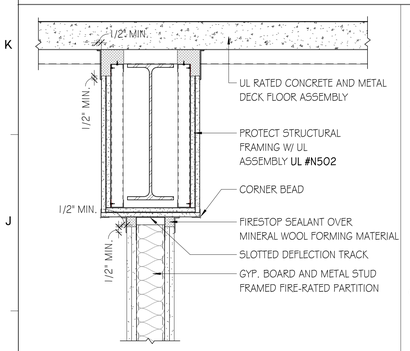
STATE OF ALABAMA
PATRICK SWATEK
8969
REGISTERED ARCHITECT

**PARTITION TYPES**

G0.21

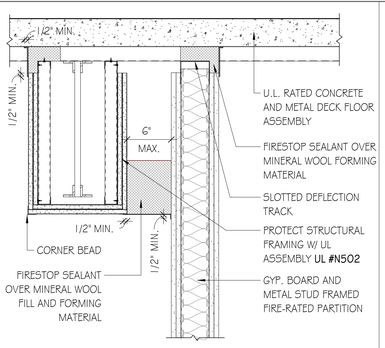
5/27/2026 4:18:04 PM TEMPLATE VERSION: 2025.1

# HEAD OF WALL FIRESTOPPING



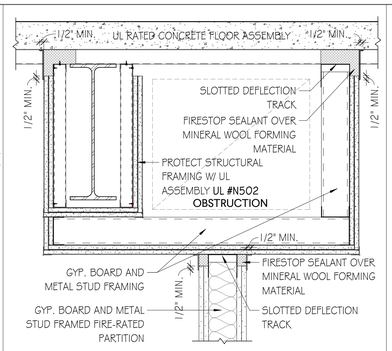

ENGINEERING JUDGEMENT (HILTI) #554953a
(1 & 2 HOUR, 2 1/2" WIDTH, 50% MOVEMENT)

## H1 WALL PARALLEL TO BEAM
SCALE: 1 1/2" = 1'-0"



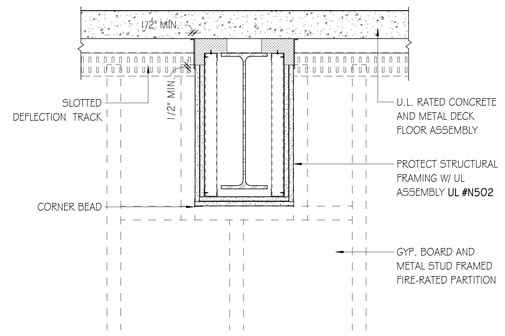

ENGINEERING JUDGEMENT (HILTI) #554890a
(1 & 2 HOUR, 2 1/2" WIDTH, 33% MOVEMENT)

## H3 WALL OFFSET @ STL. STRUCT.
SCALE: 1 1/2" = 1'-0"



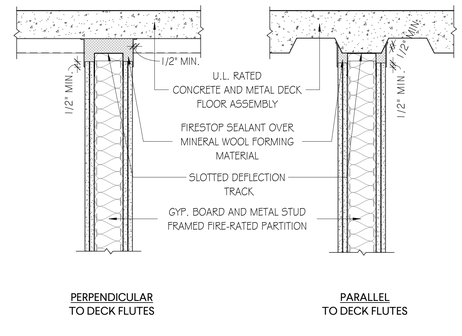

ENGINEERING JUDGEMENT (HILTI) #554946a
(1 & 2 HOUR, 2 1/2" WIDTH, 50% MOVEMENT)

## H5 WALL OFFSET@OBSTRUCTION
SCALE: 1 1/2" = 1'-0"




ENGINEERING JUDGEMENT ( HILTI) #554951a
(1 & 2 HOUR, 2 1/2" WIDTH, 50% MOVEMENT)

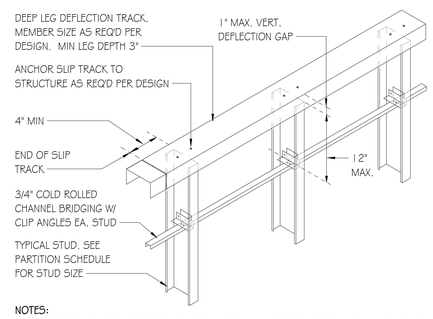
## H7 WALL PERPENDICULAR TO BEAM
SCALE: 1 1/2" = 1'-0"




UL# HW-D-0042
(1 & 2 HOUR, 1" WIDTH, 50% MOVEMENT)

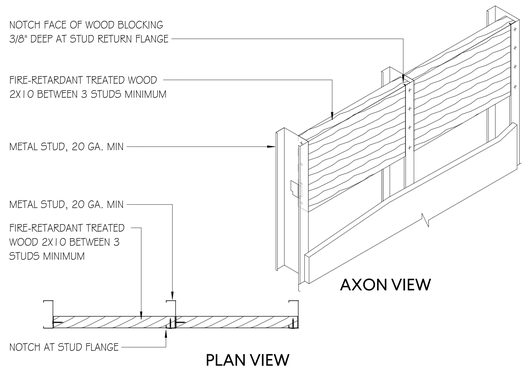
UL# HW-D-0049
(1 & 2 HOUR, 1" WIDTH, 50% MOVEMENT)

## H10 RATED PARTITION @ METAL DECK
SCALE: 1 1/2" = 1'-0"



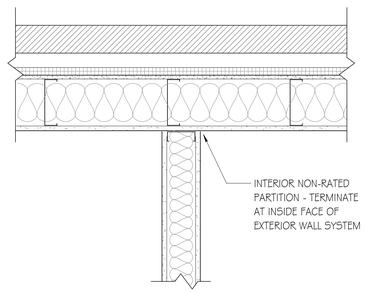

NOTES:
1. COMPLY WITH SPECIFICATION SECTION 092216 - NON-STRUCTURAL METAL FRAMING.
2. PROVIDE 3/4" CR CHANNEL BRIDGING AT 12" MAX. FROM TOP OF WALL.
3. PROVIDE ADDITIONAL 3/4" CR CHANNEL BRIDGING AT 48" OC VERT AT FULL HEIGHT ONE-SIDED PARTITIONS (GYP BOARD ONE SIDE ONLY), OR AS REQ'D PER DESIGN.

## E7 SLIP TRACK DETAIL
SCALE: 1 1/2" = 1'-0"

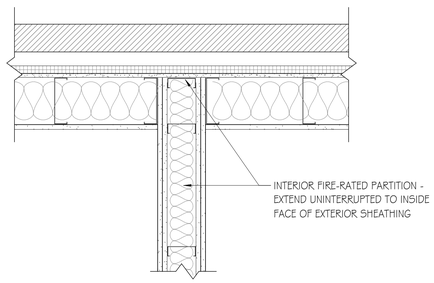



## E10 BLOCKING DETAIL
SCALE: 1 1/2" = 1'-0"

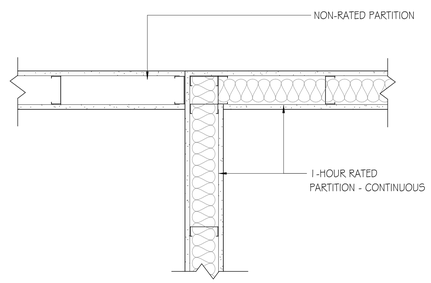
# WALL PRIORITY DIAGRAMS



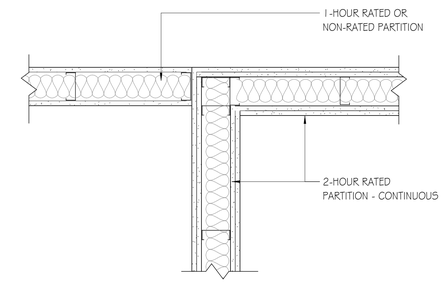

## C1 NON-RATED PARTITION @ EXT. WALL
SCALE: 1 1/2" = 1'-0"



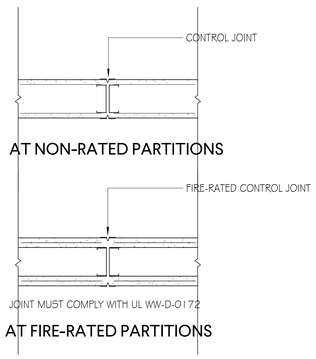

## C4 RATED PARTITION @ EXT. WALL
SCALE: 1 1/2" = 1'-0"



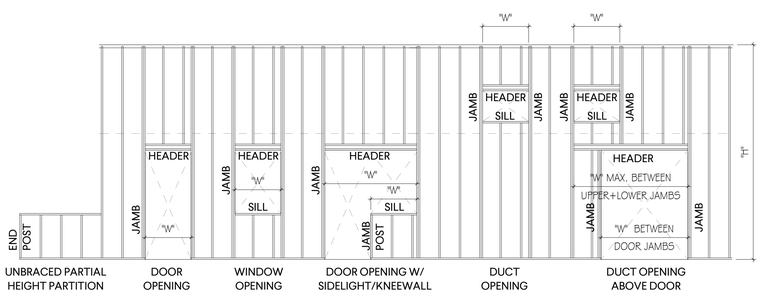

## C7 PARTITION INTERSECTION 1
SCALE: 1 1/2" = 1'-0"



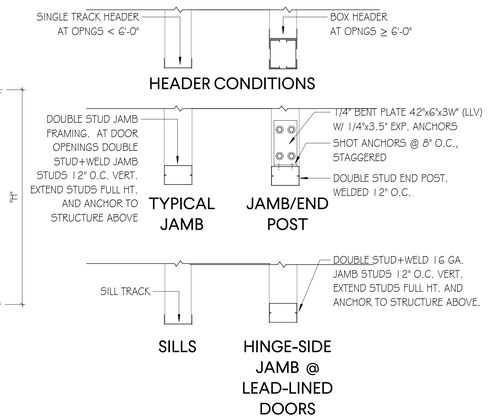

## C10 PARTITION INTERSECTION 2
SCALE: 1 1/2" = 1'-0"




## A1 CONTROL JOINT DETAILS
SCALE: 1 1/2" = 1'-0"




## A4 STUD FRAMING DETAILS
SCALE: 1 1/2" = 1'-0"




NOTES:
1. DESIGN IS BASED ON A DIFFERENTIAL INTERNAL PRESSURE OF 5 POUNDS PER SQUARE FOOT, AND AN ALLOWABLE DEFLECTION OF L/240.
2. THE STEEL STUD GAUGE IS BASED ON STEEL STUD MANUFACTURER'S ASSOCIATION (SSMA) PROPERTIES AND PROCEDURES FOR ENGINEERING INTERIOR NON-STRUCTURAL NON-COMPOSITE FRAMING.
3. WHEN TYPICAL STUD SPANS EXCEED THOSE SHOWN, WHEN LOADING CONDITIONS ARE OTHER THAN STATED, OR FOR OPENING WIDTHS OR HEIGHTS EXCEEDING THOSE SHOWN, CONSULT STRUCTURAL ENGINEER.

STEEL STUD GAUGE FOR 3-5/8" & 6" HEADER, JAMB, AND SILL STUDS AND TRACKS

| WIDTH "W" | HEIGHT "H" | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | ‹ 8' | 8' - 9' | 9' - 10' | 10' - 11' | 11' - 12' | 12' - 13' | 13' - 14' | 14' - 15' |
| ‹ 4' | 20 | 20 | 20 | 20 | 20 | 18 | 16 | 14 |
| 4' - 6' | 20 | 20 | 20 | 20 | 18 | 16 | 14 | |
| 6' - 8' | 20 | 20 | 20 | 18 | 16 | 14 | | |
| 8' - 10' | 20 | 20 | 18 | 16 | 14 | | | |
| 10' - 12' | 18 | 18 | 16 | 14 | | | | |

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ISSUE DATE
IFB SET 05/27/2026

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CHECKED BY: Checker

REID STATE CC WELDING & INDUSTRIAL RENO.
100 AL-83, Evergreen, AL 36401

ACCS 2025.162.RSTCC
GMC ABHM250047

STATE OF ALABAMA
PATRICK SWATEK
8969
REGISTERED ARCHITECT

PARTITION DETAILS

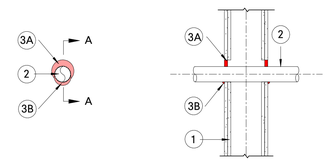
G0.22

5/27/2026 4:18:05 PM TEMPLATE VERSION: 2025.1

## SINGLE UNINSULATED METAL PIPE THRU GYPSUM BOARD PARTITION

| | |
|---|---|
| A | W-L-1054 |
| B | W-L-1001 |
| C | W-L-1088 |

1. 1 OR 2 HR FIRE-RATED GYPSUM BOARD / STUD WALL ASSEMBLY
2. SINGLE METALLIC PIPE, CONDUIT, OR TUBING
3. **A)** FIRESTOP SEALANT IN ANNULAR SPACE MIN. 5/8" TH. TOOLED FLUSH W/ BOTH WALL SURFACES. **B)** FIRESTOP SEALANT MIN. 1/2" BEAD APPLIED AT POINT OF CONTACT LOCATION

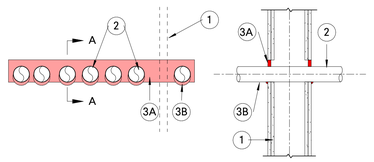


SECTION A-A

## MULTIPLE PENETRATIONS THRU GYPSUM BOARD PARTITION

| | |
|---|---|
| A | W-L-1389 |
| B | W-L-1228 |
| C | W-L-1165 |

1. 1 OR 2 HR FIRE-RATED GYPSUM BOARD / STUD WALL ASSEMBLY
2. MULTIPLE METALLIC PIPES OR CONDUITS IN A SINGLE LAYER, NOMINAL 2" DIA. MAX.
3. **A)** FIRESTOP SEALANT IN ANNULAR SPACE MIN. 5/8" TH. TOOLED FLUSH W/ BOTH WALL SURFACES. **B)** FIRESTOP SEALANT MIN. 1/2" BEAD APPLIED AT POINT OF CONTACT LOCATION

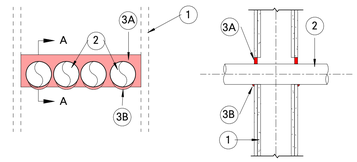


SECTION A-A

## MULTIPLE PENETRATIONS THRU GYPSUM BOARD PARTITION

| | |
|---|---|
| A | W-L-1408 |
| B | W-L-1474 |
| C | W-L-1168 |

1. 1 OR 2 HR FIRE-RATED GYPSUM BOARD / STUD WALL ASSEMBLY
2. MULTIPLE METALLIC PIPES OR CONDUITS IN A SINGLE LAYER, NOMINAL 4" DIA. MAX.
3. **A)** FIRESTOP SEALANT IN ANNULAR SPACE MIN. 5/8" TH. TOOLED FLUSH W/ BOTH WALL SURFACES. **B)** FIRESTOP SEALANT MIN. 1/2" BEAD APPLIED AT POINT OF CONTACT LOCATION

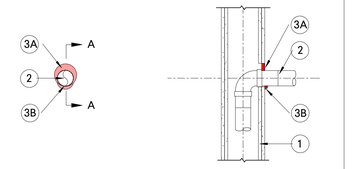


SECTION A-A

## MEMBRANE PENETRATIONS THRU GYPSUM BOARD PARTITION

| | |
|---|---|
| A | W-L-1410 |
| B | W-L-1353 |
| C | --------- |

1. 1 OR 2 HR FIRE-RATED GYPSUM BOARD / STUD WALL ASSEMBLY
2. SINGLE METALLIC PIPES OR CONDUITS, NOMINAL 5" DIA. MAX. OR, COPPER 1" DIA. MAX.
3. **A)** FIRESTOP SEALANT IN ANNULAR SPACE MIN. 5/8" TH. TOOLED FLUSH W/ BOTH WALL SURFACES. **B)** FIRESTOP SEALANT MIN. 1/2" BEAD APPLIED AT POINT OF CONTACT LOCATION

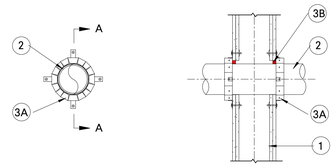


SECTION A-A

## SINGLE NONMETALLIC PIPE THRU GYPSUM BOARD PARTITION

| | |
|---|---|
| A | W-L-2078 |
| B | W-L-2073 |
| C | W-L-2029 |

1. 1 OR 2 HR FIRE-RATED GYPSUM BOARD / STUD WALL ASSEMBLY
2. SINGLE NONMETALLIC PIPE, CONDUIT, OR TUBING, MAX. DIA. VARIES W/ PIPE MATERIAL
3. FIRESTOP SYSTEM TO CONSIST OF: **A)** FIRESTOP DEVICE - FIRESTOP COLLAR TO BE INSTALLED PER MFGRS INSTRUCTIONS. **B)** FIRESTOP SEALANT IN ANNULAR SPACE MIN 1/2" TH, TOOLED FLUSH W/ BOTH WALL SURFACES.

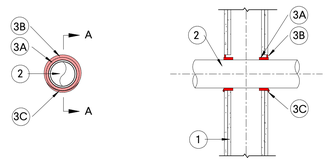


SECTION A-A

## SINGLE NONMETALLIC PIPE THRU GYPSUM BOARD PARTITION

| | |
|---|---|
| A | W-L-2406 |
| B | W-L-2553 |
| C | W-L-2506 |

1. 1 OR 2 HR FIRE-RATED GYPSUM BOARD / STUD WALL ASSEMBLY
2. SINGLE NONMETALLIC PIPE, MAX. DIA. VARIES W/ PIPE MATERIAL
3. FIRESTOP SYSTEM TO CONSIST OF: **A)** INTUMESCENT WRAP STRIP. **B)** FIRESTOP SEALANT IN ANNULAR SPACE MIN 1/4" TH TOOLED FLUSH W/ BOTH WALL SURFACES. **C)** FIRESTOP SEALANT AT WRAP STRIP / GYP WALL INTERFACE (AT 2 HR FIRE-RATED WALLS)

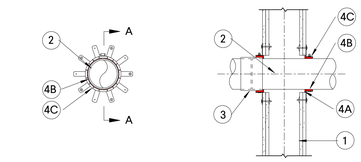


SECTION A-A

## SINGLE NONMETALLIC PIPE THRU GYPSUM BOARD PARTITION

| | |
|---|---|
| A | W-L-2411 |
| B | W-L-2397 |
| C | W-L-2637 |

1. 1 OR 2 HR FIRE-RATED GYPSUM BOARD / STUD WALL ASSEMBLY
2. SINGLE NONMETALLIC PIPE, MAX. 4" DIA.
3. NONMETALLIC PIPE COUPLING (OPTIONAL)
4. FIRESTOP SYSTEM TO CONSIST OF: **A)** FIRESTOP SEALANT IN ANNULAR SPACE MIN 1/4" TH. TOOLED FLUSH W/ BOTH WALL SURFACES. **B)** INTUMESCENT WRAP STRIP. **C)** GALV STEEL COLLAR. **D)** FIRESTOP COLLAR (NOT SHOWN) AS AN ALTERNATIVE TO 4B+4C.

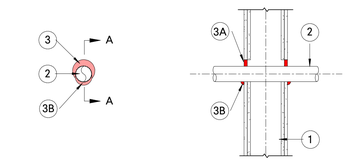


SECTION A-A

## SINGLE NONMETALLIC PIPE THRU GYPSUM BOARD PARTITION

| | |
|---|---|
| A | W-L-2474 |
| B | W-L-2299 |
| C | W-L-2241 |

1. 1 OR 2 HR FIRE-RATED GYPSUM BOARD / STUD WALL ASSEMBLY
2. SINGLE NONMETALLIC PIPE, CONDUIT, OR TUBING, NOM. 2" DIA. MAX.
3. FIRESTOP SYSTEM TO CONSIST OF: **A)** FIRESTOP SEALANT IN ANNULAR SPACE MIN. 5/8" TH. TOOLED FLUSH W/ BOTH WALL SURFACES. **B)** FIRESTOP SEALANT MIN. 5/8" BEAD APPLIED AT POINT OF CONTACT LOCATION

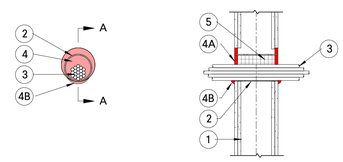


SECTION A-A

## SINGLE OR BUNDLED CABLE THRU GYPSUM BOARD PARTITION

| | |
|---|---|
| A | W-L-3065 |
| B | W-L-3031 |
| C | W-L-3133 |

1. 1 OR 2 HR FIRE-RATED GYPSUM BOARD / STUD WALL ASSEMBLY
2. METALLIC SLEEVE, NOM. 4" DIA. MAX.
3. SINGLE OR BUNDLED CABLES (MAX 30% CROSS SECTION OF SLEEVE)
4. FIRESTOP SYSTEM TO CONSIST OF: **A)** FIRESTOP SEALANT IN ANNULAR SPACE MIN. 5/8" TH. TOOLED FLUSH W/ BOTH WALL SURFACES. **B)** FIRESTOP SEALANT MIN. 1/2" BEAD APPLIED AT POINT OF CONTACT LOCATION.
5. MINERAL WOOL PACKING MATERIAL (OPTIONAL)

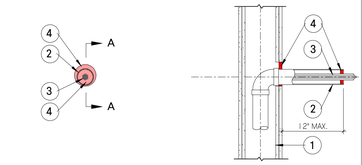


SECTION A-A

## SINGLE OR BUNDLED CABLE THRU GYPSUM BOARD PARTITION

| | |
|---|---|
| A | W-L-3320 |
| B | W-L-3426 |
| C | W-L-3427 |

1. 1, 2, OR 3 HR FIRE-RATED GYPSUM BOARD / STUD WALL ASSEMBLY
2. SINGLE METALLIC PIPE, OR TUBING, MAX. 12" DIA. (STEEL), MAX. 6" DIA. (COPPER)
3. TUBE INSULATION, PLASTIC, MAX. 2" TH.
4. FIRESTOP SYSTEM TO CONSIST OF: **A)** FIRESTOP SEALANT IN ANNULAR SPACE MIN 5/8" TH TOOLED FLUSH W/ BOTH WALL SURFACES. **B)** FIRESTOP SEALANT MIN 5/8" BEAD APPLIED AT POINT OF CONTACT LOCATION

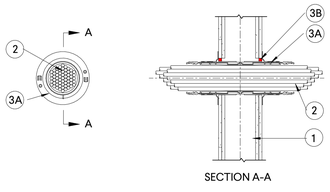


SECTION A-A

## SINGLE OR BUNDLED CABLE THRU GYPSUM BOARD PARTITION

| | |
|---|---|
| A | W-L-3335 |
| B | W-L-3289 |
| C | W-L-3377 |

1. 1 OR 2 HR FIRE-RATED GYPSUM BOARD / STUD WALL ASSEMBLY
2. SINGLE OR BUNDLED CABLES (0 TO 100% VISUAL FILL)
3. FIRESTOP SYSTEM TO CONSIST OF: **A)** FIRESTOP DEVICE - CORRUGATED STEEL TUBE W/ AN INNER PLASTIC HOUSING, INTUMESCENT MATERIAL RINGS 4 TWISTED FABRIC SMOKE SEAL INSTALLED PER MFGRS INSTRUCTIONS. **B)** FIRESTOP SEALANT IN ANNULAR SPACE MIN. 5/8" TH. TOOLED FLUSH W/ BOTH WALL SURFACES.

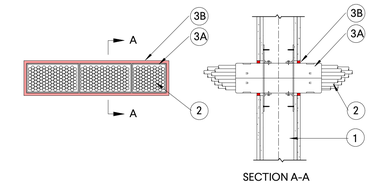


SECTION A-A

## SINGLE OR BUNDLED CABLE THRU GYPSUM BOARD PARTITION

| | |
|---|---|
| A | W-L-3483 |
| B | W-L-3289 |
| C | W-L-3306 |

1. 1 OR 2 HR FIRE-RATED GYPSUM BOARD / STUD WALL ASSEMBLY
2. BUNDLED CABLES (0 TO 100% VISUAL FILL)
3. FIRESTOP SYSTEM TO CONSIST OF: **A)** FIRESTOP DEVICE - MODULAR FIRE SLEEVE CONSISTING OF AN OUTER SLEEVE, ONE OR MORE DEVICES MAY BE GANGED TOGETHER. INSTALL PER MFGRS INSTRUCTIONS. **B)** FIRESTOP SEALANT IN ANNULAR SPACE MIN. 5/8" TH. TOOLED FLUSH W/ BOTH WALL SURFACES.

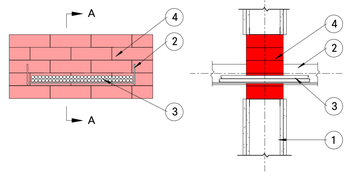


SECTION A-A

## CABLE TRAY THRU GYPSUM PARTITION

| | |
|---|---|
| A | W-L-4011 |
| B | W-L-4037 |
| C | W-L-4008 |

1. 1 OR 2 HR FIRE-RATED GYPSUM BOARD / STUD WALL ASSEMBLY W/ STUD-FRAMED TRAY OPNG
2. CABLE TRAY - MAX. 24" W. X 6" DP.
3. CABLES - AGGREGATE CROSS-SECTIONAL AREA OF CABLES IN CABLE TRAY NOT TO EXCEED 45% CROSS-SECTIONAL AREA OF TRAY
4. FIRESTOP SYSTEM - INTUMESCENT FIRE BLOCKS FIRMLY PACKED WITHIN OPNG.

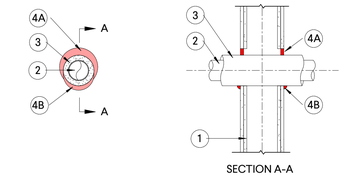


SECTION A-A

## INSULATED METAL PIPE THRU GYPSUM BOARD PARTITION

| | |
|---|---|
| A | W-L-5028 |
| B | W-L-5169 |
| C | W-L-5054 |

1. 1 OR 2 HR FIRE-RATED GYPSUM BOARD / STUD WALL ASSEMBLY
2. SINGLE METALLIC PIPE, OR TUBING, MAX. 4" DIA. (STEEL), MAX. 2" DIA. (COPPER)
3. TUBE INSULATION, PLASTIC, MAX. 1" TH.
4. FIRESTOP SYSTEM TO CONSIST OF: **A)** FIRESTOP SEALANT IN ANNULAR SPACE MIN 5/8" TH TOOLED FLUSH W/ BOTH WALL SURFACES. **B)** FIRESTOP SEALANT MIN 5/8" BEAD APPLIED AT POINT OF CONTACT LOCATION

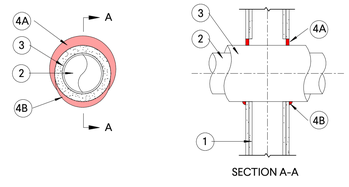


SECTION A-A

## INSULATED METAL PIPE THRU GYPSUM BOARD PARTITION

| | |
|---|---|
| A | W-L-5029 |
| B | W-L-5040 |
| C | W-L-5014 |

1. 1, 2, OR 3 HR FIRE-RATED GYPSUM BOARD / STUD WALL ASSEMBLY
2. SINGLE METALLIC PIPE, OR TUBING, MAX. 12" DIA. (STEEL), MAX. 6" DIA. (COPPER)
3. TUBE INSULATION, PLASTIC, MAX. 2" TH.
4. FIRESTOP SYSTEM TO CONSIST OF: **A)** FIRESTOP SEALANT IN ANNULAR SPACE MIN 5/8" TH TOOLED FLUSH W/ BOTH WALL SURFACES. **B)** FIRESTOP SEALANT MIN 5/8" BEAD APPLIED AT POINT OF CONTACT LOCATION

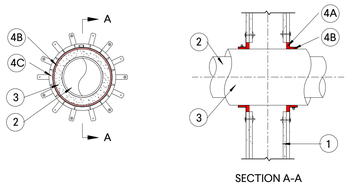


SECTION A-A

## INSULATED NONMETALLIC PIPE THRU GYPSUM BOARD PARTITION

| | |
|---|---|
| A | W-L-5225 |
| B | ---------- |
| C | W-L-2497 |

1. 1 OR 2 HR FIRE-RATED GYPSUM BOARD / STUD WALL ASSEMBLY
2. SINGLE NONMETALLIC PIPE, MAX. 4" DIA.
3. PIPE COVERING, NOM. 1-1/2" TH. HEAVY DENSITY GLASS FIBER, JACKETED
4. FIRESTOP SYSTEM TO CONSIST OF: **A)** FIRESTOP SEALANT IN ANNULAR SPACE MIN 5/8" TH TOOLED FLUSH W/ BOTH WALL SURFACES. **B)** INTUMESCENT WRAP STRIP. **C)** STEEL COLLAR, AS TESTED IN THIS ASSEMBLY.

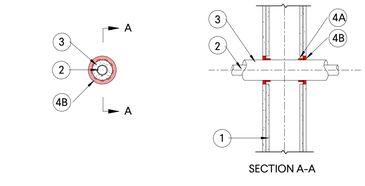


SECTION A-A

## INSULATED NONMETALLIC PIPE THRU GYPSUM BOARD PARTITION

| | |
|---|---|
| A | W-L-5294 |
| B | W-L-5288 |
| C | W-L-5290 |

1. 1 OR 2 HR FIRE-RATED GYPSUM BOARD / STUD WALL ASSEMBLY
2. SINGLE NONMETALLIC PIPE, MAX. 2" DIA. (CPVC)
3. PIPE COVERING, NOM. 1" TH. HEAVY DENSITY GLASS FIBER, JACKETED
4. FIRESTOP SYSTEM TO CONSIST OF: **A)** INTUMESCENT WRAP STRIP. **B)** FIRESTOP SEALANT IN ANNULAR SPACE MIN 5/8" TH TOOLED FLUSH W/ BOTH WALL SURFACES.

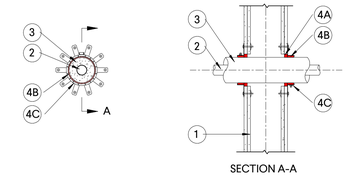


SECTION A-A

## INSULATED METALLIC PIPE THRU GYPSUM BOARD PARTITION

| | |
|---|---|
| A | W-L-5383 |
| B | ---------- |
| C | W-L-2498 |

1. 1 OR 2 HR FIRE-RATED GYPSUM BOARD / STUD WALL ASSEMBLY
2. SINGLE METALLIC PIPE OR TUBING, MAX. 2" DIA. (COPPER)
3. TUBE INSULATION, PLASTIC, MAX. 1-1/2" TH. ABPVC FLEXIBLE FOAM TUBING
4. FIRESTOP SYSTEM TO CONSIST OF: **A)** FIRESTOP SEALANT IN ANNULAR SPACE MIN. 5/8" TH. TOOLED FLUSH W/ BOTH WALL SURFACES. **B)** INTUMESCENT WRAP STRIP. **C)** STEEL COLLAR, AS TESTED IN THIS ASSEMBLY.

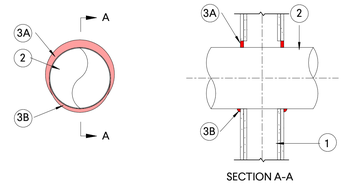


SECTION A-A

## INSULATED METALLIC PIPE THRU GYPSUM BOARD PARTITION

| | |
|---|---|
| A | W-L-7042 |
| B | W-L-7045 |
| C | W-L-7026 |

1. 1 OR 2 HR FIRE-RATED GYPSUM BOARD / STUD WALL ASSEMBLY
2. GALV. STEEL DUCT INSTALLED W/ ANNULAR SPACE OF 0" TO 1-1/2" MAX.
3. FIRESTOP SYSTEM TO CONSIST OF: **A)** FIRESTOP SEALANT IN ANNULAR SPACE MIN. 5/8" TH. TOOLED FLUSH W/ BOTH WALL SURFACES. **B)** FIRESTOP SEALANT MIN. 1/2" BEAD APPLIED AT POINT OF CONTACT LOCATION.

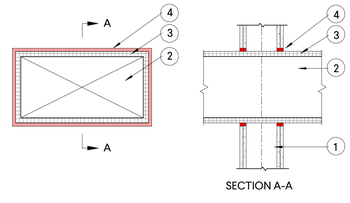


SECTION A-A

## INSULATED HVAC DUCT THRU GYPSUM BOARD PARTITION

| | |
|---|---|
| A | W-L-7059 |
| B | W-L-7195 |
| C | W-L-7178 |

1. 1 OR 2 HR FIRE-RATED GYPSUM BOARD / STUD WALL ASSEMBLY
2. STEEL DUCT, MIN. 24 GA., NOM. 24" X 12" OR SMALLER
3. BATT OR BLANKET INSULATION, MAX. 1-1/2" TH., FOIL-JACKETED
4. FIRESTOP SEALANT IN ANNULAR SPACE MIN. 5/8" TH. TOOLED FLUSH W/ BOTH WALL SURFACES .

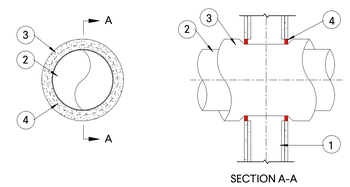


SECTION A-A

## INSULATED HVAC DUCT THRU GYPSUM BOARD PARTITION

| | |
|---|---|
| A | W-L-7153 |
| B | W-L-7177 |
| C | W-L-7179 |

1. 1 OR 2 HR FIRE-RATED GYPSUM BOARD / STUD WALL ASSEMBLY
2. STEEL DUCT, 20" DIA.MAX.24 GA.MIN.(SPIRAL DUCT) OR 12" DIA.MAX.,28 GA.MIN.(SHEET METAL DUCT)
3. DUCT INSULATION, NOM.1-1/2" OR 2" TH. GLASS FIBER, FOIL JACKETED. COMPRESS 50% @ ANNULAR SPACE SUCH THAT ANNULAR SPACE SHALL BE MIN. 1/2" TO MAX. 1-1/2"
4. FIRESTOP SEALANT MIN. 5/8" BEAD APPLIED AT POINT OF CONTACT LOCATION, TOOLED FLUSH W/ BOTH WALL SURFACES.

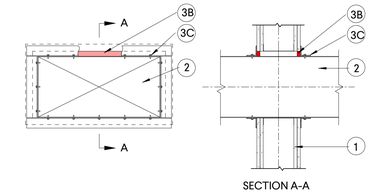


SECTION A-A

## UNINSULATED HVAC DUCT THRU GYPSUM BOARD PARTITION

| | |
|---|---|
| A | W-L-7155 |
| B | W-J-7169 |
| C | W-L-7056 |

1. 1 OR 2 HR FIRE-RATED GYPSUM BOARD / STUD WALL ASSEMBLY
2. STEEL DUCT, MAX. 100" X 100" INSTALLED CONCENTRICALLY OR ECCENTRICALLY WITHIN THE FIRESTOP SYSTEM W/ 2" MAX. DIMENSION TO EDGE OF FRAMED OPENING
3. FIRESTOP SYSTEM TO CONSIST OF: **A)** PACKING MATERIAL FITTED INTO ANNULAR SPACE (OPTIONAL, NOT SHOWN), **B)** FIRESTOP SEALANT IN ANNULAR SPACE MIN. 5/8" TOOLED FLUSH W/ BOTH WALL SURFACES AND, **C)** STEEL RETAINING ANGLES, MIN. 16 GA., SCREW-ANCHORED TO DUCT MIN. 6" O.C.

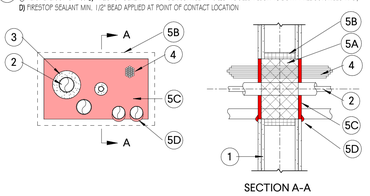


SECTION A-A

## MULTIPLE PENETRATIONS THRU GYPSUM BOARD PARTITION

| | |
|---|---|
| A | W-L-8079 |
| B | W-L-8010 |
| C | W-L-8026 |

1. 1 OR 2 HR FIRE-RATED GYPSUM BOARD / STUD WALL ASSEMBLY
2. ONE OR MORE PIPES, CONDUIT, OR TUBES INSTALLED WITHIN THE OPENING
3. PIPE INSULATION. ONE OR MORE PENETRANTS MAY BE INSULATED W/ MATLS AS TESTED IN THIS ASSY.
4. CABLES - ONE CABLE BUNDLE, MAX 3" DIA., OF TYPES 4 QUANTITYES AS TESTED IN THIS ASSY.
5. FIRESTOP SYSTEM TO CONSIST OF: **A)** PACKING MATL FITTED INTO ANNULAR SPACE , **B)** PACKING MATL. MIN 1-1/4" CONT. @ PERIMETER OF OPNG. **C)** FIRESTOP SEALANT IN ANNULAR SPACE MIN. 5/8" TOOLED FLUSH W/ BOTH WALL SURFACES AND, **D)** FIRESTOP SEALANT MIN. 1/2" BEAD APPLIED AT POINT OF CONTACT LOCATION

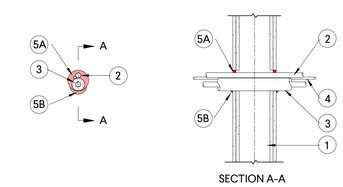


SECTION A-A

## HVAC LINE SET THRU GYPSUM BOARD PARTITION

| | |
|---|---|
| A | W-L-8141 |
| B | W-L-8039 |
| C | W-L-8025 |

1. 1 OR 2 HR FIRE-RATED GYPSUM BOARD / STUD WALL ASSEMBLY
2. ONE OR MORE (MAX. 2) METALLIC PIPE, CONDUIT, OR TUBING INSTALLED CONCENTRICALLY OR ECCENTRICALLY WITHIN OPNG.
3. TUBE INSULATION (OPTIONAL) - 3/4" TH. MAX., OF TYPES AS TESTED IN THIS ASSEMBLY
4. CABLE - MAX. ONE 4-PAIR NO. 18 AWG CABLE W/ PVC INSULATION 4 JACKET
5. FIRESTOP SYSTEM TO CONSIST OF: **A)** FIRESTOP SEALANT IN ANNULAR SPACE MIN 5/8" TH TOOLED FLUSH W/ BOTH WALL SURFACES, **B)** FIRESTOP SEALANT MIN 1/2" BEAD APPLIED AT POINT OF CONTACT LOCATION.

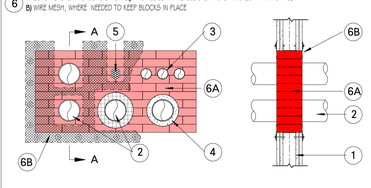


SECTION A-A

## MULTIPLE PENETRATIONS THRU GYPSUM WALL ASSEMBLY

| | |
|---|---|
| A | W-L-8095 |
| B | W-L-8106 |
| C | W-L-8045 |

1. 1 OR 2 HR FIRE-RATED GYPSUM BOARD / STUD WALL ASSEMBLY W/ STUD-FRAMED TRAY OPNG
2. ONE OR MORE METALLIC PIPES, CONDUITS, OR TUBING, SPACED MIN 1", 4 MAX 26" APART, MAY BE INSTALLED WITHIN OPENING. MATERIAL AND SIZE OF PENETRATING ITEMS AS TESTED IN THIS ASSEMBLY
3. ONE OR MORE NONMETALLIC PENETRANTS MAY BE INCLUDED WITH THE OPENING. MATERIAL AND SIZE OF PENETRATING ITEMS SHALL BE AS TESTED IN THIS ASSEMBLY.
4. PIPE INSULATION (OPTIONAL) - AT ONE OR MORE METALLIC PIPES OR TUBES. MAINTAIN MIN. 1-1/2" BETWEEN OTHER PENETRANTS AND, 1" FROM EDGE OF OPENING. MATERIAL AND THICKNESS OF INSULATION SHALL BE AS TESTED IN THIS ASSEMBLY.
5. CABLES (OPTIONAL) - MAX EIGHT 3" DIA TIGHT BUNDLES. MAINTAIN 1-1/2" CLEARANCE FROM OTHER ITEMS
6. FIRESTOP SYSTEM TO CONSIST OF: **A)** INTUMESCENT FIRE BLOCKS FIRMLY PACKED WITHIN OPNG, **B)** WIRE MESH, WHERE NEEDED TO KEEP BLOCKS IN PLACE



SECTION A-A

## KEY TO MANUFACTURERS

| | |
|---|---|
| A | HILTI |
| B | 3M |
| C | STI |

## GENERAL THRU-PENETRATION NOTES

1. GENERAL

A. ALL THROUGH-PENETRATION FIRESTOP WORK SHALL COMPLY WITH THE REQUIREMENTS OF SECTION 078413 – PENETRATION FIRESTOP SYSTEMS.
B. THE DETAILS SHOWN HEREIN ILLUSTRATE FREQUENTLY ENCOUNTERED THROUGH-PENETRATION FIRESTOP CONDITIONS. THEY ARE GENERIC REPRESENTATIONS OF SYSTEMS AVAILABLE FROM SEVERAL MANUFACTURERS.
C. SELECTION OF APPROPRIATE SYSTEMS SHALL BE THE RESPONSIBILITY OF THE FIRESTOP CONTRACTOR, AND MUST BE SUBMITTED FOR ARCHITECT'S APPROVAL. EACH SELECTION SHALL BE APPROPRIATE FOR THE PENETRATING ITEM AND SUBSTRATE, AND SHALL COMPLY WITH THE SPECIFIC REQUIREMENTS OF A UL LISTED SYSTEM DESIGN.
D. WHERE NO APPLICABLE UL DESIGN IS AVAILABLE FOR A PARTICULAR FIRESTOP CONFIGURATION, SUBMIT AN ENGINEERING JUDGMENT (EJ), OR EQUIVALENT FIRE RESISTANCE RATED ASSEMBLY (EFRRA), PREPARED BY THE FIRESTOP MANUFACTURER.

2. APPLICABILITY

A. PROVIDE THROUGH-PENETRATION FIRESTOP SYSTEMS FOR ALL PENETRATIONS (INCLUDING SINGLE-SIDED MEMBRANE PENETRATIONS) OF FIRE RESISTANCE RATED CONSTRUCTION, WHETHER OR NOT SPECIFICALLY DETAILED ON THE DRAWINGS (APPLICABLE TO BOTH EMPTY OPENINGS AND OPENINGS CONTAINING PENETRATING ITEMS).
B. ALL PIPING AND DUCTWORK SUBJECT TO MOVEMENT SHALL BE FIRESTOPPED WITH FLEXIBLE FIRE RATED SEALANT.
C. TO EXTENT THAT APPROPRIATE UL DESIGNS ARE AVAILABLE FOR SUBSTRATE REQUIRED, USE THE FOLLOWING APPROACH TO SELECTION OF SYSTEMS:
   1. FOR SIMPLE PENETRATIONS: ONE-PART FIRESTOP SEALANT
   2. FOR COMPLEX PENETRATIONS: FOAMED-IN-PLACE FIRESTOP SEALANT
   3. FOR INSULATED METAL PIPE: INTUMESCENT WRAP STRIP AND ONE-PART FIRESTOP SEALANT.
   4. FOR DUCTS OR VENTS:
   5. FOR CABLE TRAYS OR RACEWAYS:

3. SLEEVING

A. THE FOLLOWING PENETRATIONS MUST BE SLEEVED:
   1. SINGLE ROUND PENETRATIONS IN RATED CMU WALLS
   2. INSULATED PIPE PENETRATIONS IN RATED GYPSUM BOARD WALLS
   3. BUNDLED CABLE PENETRATIONS IN RATED GYPSUM BOARD WALLS
   4. ALL PENETRATIONS IN ELEVATED CONCRETE SLABS.
B. ALL SLEEVES SHALL BE METAL. PLASTIC IS NOT PERMITTED. THE JUNCTURE OF STEEL SLEEVES AND WALL SHALL BE SEALED WITH FLEXIBLE FIRE RATED SEALANT.

4. QUALITY ASSURANCE

A. COMPLY WITH "INSTALLER QUALIFICATIONS" AND "ON-SITE RESPONSIBLE PARTY" PROVISIONS OF SPECIFICATION SECTION 078413 – THROUGH-PENETRATION FIRESTOP SYSTEMS.
B. OBTAIN THROUGH-PENETRATION FIRESTOP SYSTEMS THROUGH ONE SOURCE FROM A SINGLE MANUFACTURER.
C. COMMENCE FIRESTOPPING WORK ONLY AFTER SUBMITTALS (INCLUDING MOCKUPS WHERE APPLICABLE) ARE APPROVED, AND PRE-INSTALLATION CONFERENCE IS SUCCESSFULLY CONCLUDED.

5. INSTALLATION - GENERAL

A. COMPLY WITH UL SYSTEM REQUIREMENTS AND FIRESTOPPING MANUFACTURERS' PRINTED INSTALLATION INSTRUCTIONS.
B. INSTALL FORMING /DAMMING /BACKING MATERIALS AND OTHER ACCESSORIES OF TYPES REQUIRED TO SUPPORT FILL MATERIALS DURING THEIR APPLICATION AND IN THE POSITION NEEDED TO PRODUCE CROSS-SECTIONAL SHAPES AND EPTHS REQUIRED TO ACHIEVE FIRE RATINGS INDICATED.
C. INSTALL FILL MATERIALS BY PROVEN TECHNIQUES TO PRODUCE THE FOLLOWING RESULTS:
   1. FILL VOIDS AND CAVITIES FORMED BY OPENINGS, FORMING MATERIALS, ACCESSORIES, AND PENETRATING ITEMS AS REQUIRED TO ACHIEVE FIRE-RESISTANCE RATINGS INDICATED.
   2. APPLY MATERIALS SO THEY CONTACT AND ADHERE TO SUBSTRATES FORMED BY OPENINGS AND PENETRATING ITEMS,
D. FOR FILL MATERIALS THAT WILL REMAIN EXPOSED AFTER COMPLETING WORK, FINISH TO PRODUCE SMOOTH UNIFORM SURFACES THAT ARE FLUSH WITH ADJOINING FINISHES.
E. REMOVE COMBUSTIBLE FORMING MATERIALS, AND OTHER ACCESSORIES THAT ARE NOT INDICATED AS PERMANENT COMPONENTS OF FIRESTOP SYSTEMS. REMOVE EXCESS SEALANT FROM ADJOINING SURFACES.
F. IDENTIFY THROUGH PENETRATION FIRESTOP SYSTEMS WITH PERMANENTLY ATTACHED,PREPRINTED METAL OR PLASTIC LABELS, AS SPECIFIED.
G. INSPECT FILL MATERIALS AFTER 48 HOURS FOR COMPLETE ADHESION AND SEAL IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS. CORRECT DEFICIENCIES AND RE-INSPECT.

## PRODUCT / MANUFACTURER LEGEND

1. THE ILLUSTRATIONS ON THIS DRAWING REPRESENT FREQUENTLY ENCOUNTERED PENETRATION FIRESTOPPING CONDITIONS THROUGH FIRE-RATED FLOOR AND WALL ASSEMBLIES.

2. THE NUMBERS SHOWN BELOW ARE MANUFACTURERS' UL-TEST NUMBERS FOR EACH CONDITION.

3. THE KEY TO MANUFACTURERS (A, B, OR C) IS AS INDICATED BELOW.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ACCS 2025.162 RSTCC
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STATE OF ALABAMA
PATRICK SWATEK
8969
REGISTERED ARCHITECT

PENETRATION FIRESTOPPING - MET STUD WALLS

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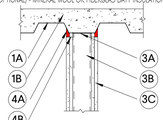
## GYPSUM STUD WALL TO CONCRETE OVER FLUTED METAL DECK FLOOR ASSEMBLY W/APPLIED SEALANT JOINT (OR TO ALTERNATE METAL DECK ROOF ASSY)

| | |
|---|---|
| A | HW-D-0184 |
| B | HW-D-0486 |
| C | HW-D-0205 |

1) FLOOR ASSEMBLY - FIRE-RATED FLUTED STEEL DECK/CONCRETE FLOOR ASSEMBLY CONSISTING OF:
   **A)** STEEL FLOOR AND FORM UNITS, MAX 3" DP GALV STEEL FLUTED DECKING
   **B)** CONCRETE - MIN 2-1/2" TH REINFORCED STRUCTURAL CONCRETE AS MEASURED FROM THE TOP PLANE OF THE FLUTES.
   **C)** SPRAY-APPLIED FIRE RESISTIVE MATERIAL (NOT SHOWN, OPTIONAL) SPRAY-APPLIED MIN 5/16" TH, MAX 1 1/16" TH, AT UNDERSIDE OF METAL DECK.
2) ROOF ASSEMBLY - (NOT SHOWN) MAY BE USED AS AN ALTERNATIVE TO THE FLOOR ASSEMBLY CONSISTING OF:
   **A)** STEEL ROOF DECK, MAX 3" DP GALV STEEL FLUTED DECKING
   **B)** SPRAY-APPLIED FIRE RESISTIVE MATERIAL AS REQUIRED TO MEET THE INDIVIDUAL P700 SERIES DESIGN.
3) WALL ASSEMBLY - 1 OR 2 HR FIRE-RATED GYPSUM BOARD/STEEL STUD WALL ASSEMBLY INCLUDING:
   **A)** STEEL FLOOR RUNNERS, MIN 25 GA GALV STEEL CHANNELS, OR, **A1)** (ALTERNATIVE) SLOTTED DEFLECTION RUNNER.
   **B)** STEEL STUDS, MIN 3-1/2" W. STUDS CUT 1/2 TO 3/4" LESS IN LENGTH THAN ASSEMBLY HEIGHT. MAX SPACING 24" O.C.
   **C)** GYPSUM BOARD - ONE OR TWO LAYERS 5/8" TH GYPSUM BOARD AS REQD FOR RATED ASSEMBLY W/ TOP GAP OF MAX 3/4" TO UNDERSIDE OF DECK.
4) **A)** FIRESTOP SEALANT MIN 5/8" TH @ BOTT. FLOOR OR ROOF TO TOP OF WALL GAP, MAX 3/4" H.
   **B)** FORMING MATERIAL (OPTIONAL) - MINERAL WOOL OR FIBERGLAS BATT INSULATION, OR POLYURETHANE BACKER ROD

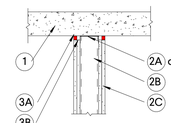



SECTION A-A

## GYPSUM STUD WALL TO CONCRETE FLOOR ASSEMBLY W/APPLIED SEALANT JOINT

| | |
|---|---|
| A | HW-D-0209 |
| B | HW-D-0134 |
| C | HW-D-0483 |

1) FLOOR ASSEMBLY - MIN 4-1/2" TH REINFORCED STRUCTURAL CONCRETE OR, ANY 6" TH UL CLASSIFIED HOLLOW-CORE PRECAST CONCRETE UNITS.
2) WALL ASSEMBLY - 1, 2, 3 OR 4 HR FIRE-RATED GYPSUM BOARD/STEEL STUD WALL ASSEMBLY INCLUDING:
   **A)** STEEL FLOOR RUNNERS, MIN 25 GA GALV STEEL CHANNELS, OR, **A1)** (ALTERNATIVE) SLOTTED DEFLECTION RUNNER.
   **B)** STEEL STUDS, MIN 3-1/2" W. STUDS CUT 1/2 TO 3/4" LESS IN LENGTH THAN ASSEMBLY HEIGHT. MAX SPACING 24" O.C.
   **C)** GYPSUM BOARD - ONE, TWO, THREE, OR FOUR LAYERS 5/8" TH GYPSUM BOARD AS REQD FOR RATED ASSEMBLY W/ TOP GAP OF MAX 3/4" TO UNDERSIDE OF DECK.
3) **A)** FIRESTOP SEALANT MIN 5/8" TH @ BOTT. FLOOR TO TOP OF WALL GAP, MAX 3/4" H.
   **B)** FORMING MATERIAL (OPTIONAL) - MINERAL WOOL OR FIBERGLAS BATT INSULATION, OR POLYURETHANE BACKER ROD

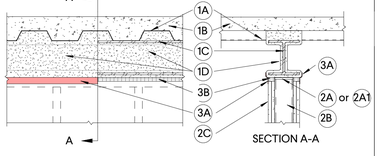



SECTION A-A

## GYPSUM STUD WALL CENTERED & PARALLEL TO STEEL BEAM W/SFRM & APPLIED SEALANT

| | |
|---|---|
| A | HW-D-0259 |
| B | HW-D-0252 |
| C | HW-D-0465 |

1) FLOOR ASSEMBLY - FIRE-RATED FLUTED STEEL DECK/CONCRETE FLOOR ASSEMBLY CONSISTING OF:
   **A)** STEEL FLOOR AND FORM UNITS, MAX 3" DP GALV STEEL FLUTED DECKING
   **B)** CONCRETE - MIN 2-1/2" TH REINFORCED STRUCTURAL CONCRETE AS MEASURED FROM THE TOP PLANE OF THE FLUTES.
   **C)** STRUCTURAL STEEL SUPPORT - STEEL BEAM PROTECTED AS PER SPECIFIED D700 OR D900 SERIES UL DESIGN.
   **D)** SPRAY-APPLIED FIRE RESISTIVE MATERIAL APPLIED MIN 1 1/16" TH (1 HR ASSEMBLY) OR, MIN 1-1/2" TH (2 HR ASSEMBLY)
2) WALL ASSEMBLY - 1 OR 2 HR FIRE-RATED GYPSUM BOARD/STEEL STUD WALL ASSEMBLY INCLUDING:
   **A)** STEEL FLOOR RUNNERS, MIN 25 GA GALV STEEL CHANNELS, OR, **A1)** (ALTERNATIVE) SLOTTED DEFLECTION RUNNER.
   **B)** STEEL STUDS, MIN 3-1/2" W. STUDS CUT 1/2 TO 3/4" LESS IN LENGTH THAN ASSEMBLY HEIGHT. MAX SPACING 24" O.C.
   **C)** GYPSUM BOARD - ONE OR TWO LAYERS 5/8" TH GYPSUM BOARD AS REQD FOR RATED ASSEMBLY W/ TOP GAP OF MAX 1-1/2" TO UNDERSIDE OF DECK.
3) **A)** FIRESTOP SEALANT SPRAY MIN 1/16" TH (DRY THICKNESS) OVER FILL MATERIAL. OVERLAP GYP BOARD MIN 1/2" AND SFRM MIN 2".
   **B)** FORMING MATERIAL - MINERAL WOOL PACKED FULL DEPTH.

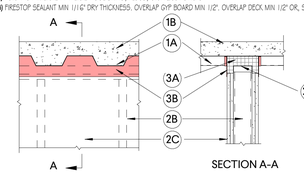



SECTION A-A

## CONCRETE OR BLOCK WALL TO CONCRETE FLOOR ASSEMBLY W/APPLIED SEALANT JOINT

| | |
|---|---|
| A | HW-D-0268 |
| B | HW-D-0169 |
| C | HW-D-0041 |

1) FLOOR ASSEMBLY - FIRE-RATED FLUTED DECK/CONCRETE ASSEMBLY (PER D700 OR D900 FLOOR-CEILING DESIGN) INCLUDING:
   **A)** STEEL DECK, MAX 3" DP.
   **B)** CONCRETE, MIN 2-1/2" TH ABOVE TOP PLANE OF DECK.
   **C)** STEEL ATTACHMENT CLIPS (OPTIONAL) USED TO SECURE CEILING RUNNER WHEN SFRM IS APPIED TO UNDERSIDE OF DECK. PRIOR TO INSTALLATION OF HEAD OF WALL CEILING RUNNER.
   **D)** SPRAY-APPLIED FIRE RESISTIVE MATERIAL (OPTIONAL) DECK MAY BE SPRAYED W/ SFRM AS PER D700 SERIES DESIGN
2) WALL ASSEMBLY - 1 OR 2 HR FIRE-RATED GYPSUM BOARD/STEEL STUD WALL ASSEMBLY INCLUDING:
   **A)** STEEL FLOOR RUNNERS, MIN 25 GA GALV STEEL CHANNELS, OR, **A1)** (ALTERNATIVE) SLOTTED DEFLECTION RUNNER.
   **B)** STEEL STUDS, MIN 3-1/2" W. STUDS CUT 1-1/4" TO 1-1/2" LESS IN LENGTH THAN ASSEMBLY HEIGHT. MAX SPACING 24" O.C.
   **C)** GYPSUM BOARD - ONE OR TWO LAYERS 5/8" TH GYPSUM BOARD AS REQD FOR RATED ASSEMBLY W/ TOP GAP OF MAX 1-1/2" TO UNDERSIDE OF DECK.
3) **A)** FORMING MATERIAL - MINERAL WOOL BATTS, PLUGS, OR PRECUT STRIPS
   **B)** FIRESTOP SEALANT MIN 1/16" DRY THICKNESS. OVERLAP GYP BOARD MIN 1/2". OVERLAP DECK MIN 1/2" OR, SFRM MIN 2"

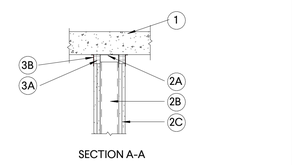



SECTION A-A

## CONCRETE OR BLOCK WALL TO CONCRETE FLOOR ASSEMBLY W/ APPLIED SEALANT

| | |
|---|---|
| A | HW-D-0296 |
| B | HW-D-0248 |
| C | HW-D-0140 |

1) FLOOR ASSEMBLY - MIN 4-1/2" TH REINFORCED STRUCTURAL CONCRETE. FLOOR MAY ALSO BE ANY 6" TH UL CLASSIFIED HOLLOW CORE PRECAST CONCRETE UNITS
2) WALL ASSEMBLY - 1 OR 2 HR FIRE-RATED GYPSUM BOARD/STEEL STUD WALL ASSEMBLY CONSTRUCTED PER INDIVIDUAL U400 OR V400 SERIES DESIGN, INCLUDING:
   **A)** STEEL FLOOR RUNNERS, MIN 25 GA GALV STEEL CHANNELS, OR, **A1)** (ALTERNATIVE) SLOTTED DEFLECTION RUNNER.
   **B)** STEEL STUDS, MIN 3-1/2" W. STUDS CUT 1-1/4" TO 1-1/2" LESS IN LENGTH THAN ASSEMBLY HEIGHT W/ BOTTOM NESTING IN AND RESTING ON FLOOR RUNNER AND W/ TOP NESTING IN CEILING RUNNER WITHOUT ATTACHMENT. MAX SPACING 24" O.C.
   **C)** GYPSUM BOARD - ONE OR TWO LAYERS 5/8" TH GYPSUM BOARD AS REQD FOR RATED ASSEMBLY W/ TOP GAP OF MAX 1-1/2" TO UNDERSIDE OF CONCRETE FLOOR.
3) **A)** FORMING MATERIAL - MINERAL WOOL BATTS OR PRECUT STRIPS
   **B)** FIRESTOP SEALANT MIN 1/16" DRY THICKNESS ON FACE SIDE OF WALL. OVERLAP GYP BOARD AND CONCRETE MIN 1/2".

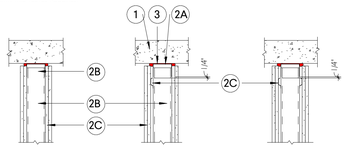



SECTION A-A

## GYPSUM STUD WALL PERPENDICULAR TO CONCRETE OVER FLUTED METAL DECK (MAX. JW 3/4")

| | |
|---|---|
| A | HW-D-0324 |
| B | HW-D-0103 |
| C | HW-D-0020 |

1) FLOOR ASSEMBLY - MIN 4-1/2" TH REINFORCED STRUCTURAL CONCRETE. FLOOR MAY ALSO BE ANY 6" TH UL CLASSIFIED HOLLOW CORE PRECAST CONCRETE UNITS
2) WALL ASSEMBLY - 1 OR 2 HR FIRE-RATED GYPSUM BOARD/STEEL STUD WALL ASSEMBLY CONSTRUCTED PER INDIVIDUAL U400 OR V400 SERIES DESIGN, INCLUDING:
   **A)** STEEL FLOOR RUNNERS, MIN 25 GA GALV STEEL CHANNELS, OR, **A1)** (ALTERNATIVE) SLOTTED DEFLECTION RUNNER.
   **B)** STEEL STUDS, MIN 3-1/2" W. STUDS CUT 1/4" TO 1" LESS IN LENGTH THAN ASSEMBLY HEIGHT W/ BOTTOM NESTING IN AND RESTING ON FLOOR RUNNER AND W/ TOP NESTING IN CEILING RUNNER WITHOUT ATTACHMENT. MAX SPACING 24" O.C.
   **C)** RESILIENT CHANNEL (OPTIONAL) 1/2" DP 25 GA RESIL. FURRING CHANNEL SECURED TO STUDS ONE OR BOTH SIDES OF WALL
   **D)** GYPSUM BOARD - ONE OR TWO LAYERS 5/8" TH GYPSUM BOARD AS REQD FOR RATED ASSEMBLY W/ TOP GAP OF MAX 1/2" TO UNDERSIDE OF CONCRETE FLOOR.
3) FIRESTOP SYSTEM - INTUMESCENT TOP TRACK SEAL - INSTALLED PER MANUFACTURER'S INSTRUCTIONS AND IN COMPLIANCE WITH THIS TESTED ASSEMBLY

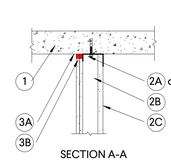



CONFIGURATION A CONFIGURATION B CONFIGURATION C

## GYPSUM STUD WALL TO CONCRETE FLOOR ASSEMBLY W/APPLIED SEALANT JOINT

| | |
|---|---|
| A | HW-D-0342 |
| B | HW-D-0052 |
| C | HW-D-0465 |

1) FLOOR ASSEMBLY - MIN 4-1/2" TH REINFORCED STRUCTURAL CONCRETE. FLOOR MAY ALSO BE ANY 6" TH UL CLASSIFIED HOLLOW CORE PRECAST CONCRETE UNITS
2) SHAFT WALL ASSEMBLY - 1 OR 2 HR FIRE-RATED GYPSUM BOARD/STEEL STUD SHAFT WALL ASSEMBLY INCLUDING:
   **A)** STEEL FLOOR AND CEILING RUNNERS, MIN 24 GA GALV STEEL J-SHAPED CHANNELS W/ UNEQUAL LEGS MIN 1-1/4" AND 2".
   **B)** STEEL STUDS, MIN 24 GA GALV C-H SHAPED STUDS, MIN 2-1/2" W. STUDS CUT 3/8 TO 1/2" LESS IN LENGTH THAN ASSEMBLY HEIGHT. MAX SPACING 24" O.C.
   **C)** GYPSUM BOARD - 1" TH GYPSUM BOARD LINER PANELS AS REQD FOR RATED ASSEMBLY.
   **D)** GYPSUM BOARD - 1/2 OR 5/8" TH, ON FINISHED SIDE OF WALL W/ BOTTOM FLOOR GAP OF MAX 3/4".
3) FIRESTOP SEALANT@ HEAD-OF-WALL GAP, MAX 1" H, FULL DEPTH. TOOL FLUSH W/ FINISH FACE OF WALL.

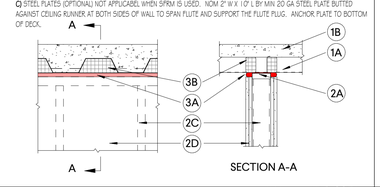



SECTION A-A

## GYPSUM STUD WALL PERPENDICULAR TO CONCRETE OVER FLUTED METAL DECK (MAX. JW 3/4")

| | |
|---|---|
| A | HW-D-0388 |
| B | HW-D-0377 |
| C | HW-D-0384 |

1) FLOOR ASSEMBLY - FIRE-RATED FLUTED DECK/CONCRETE ASSEMBLY (PER D700 OR D900 FLOOR-CEILING DESIGN) INCLUDING:
   **A)** STEEL DECK, MAX 3" DP.
   **B)** CONCRETE, MIN 2-1/2" TH ABOVE TOP PLANE OF DECK.
   **C)** SPRAY-APPLIED FIRE RESISTIVE MATERIAL (OPTIONAL) DECK MAY BE SPRAYED W/ SFRM AS PER D700 OR D900 SERIES DESIGN
2) WALL ASSEMBLY - 1 OR 2 HR FIRE-RATED GYPSUM BOARD/STEEL STUD WALL ASSEMBLY (PER U400 SERIES DESIGN INCLUDING:
   **A)** STEEL FLOOR RUNNERS, MIN 25 GA GALV STEEL CHANNELS, OR, **A1)** (ALTERNATIVE) SLOTTED DEFLECTION RUNNER.
   **B)** STEEL STUDS, MIN 3-1/2" W. STUDS CUT 3/4" TO 1" LESS IN LENGTH THAN ASSEMBLY HEIGHT. MAX SPACING 24" O.C.
   **C)** GYPSUM BOARD - ONE OR TWO LAYERS 5/8" TH GYPSUM BOARD AS REQD FOR RATED ASSEMBLY W/ TOP GAP OF MAX 1-1/2" TO UNDERSIDE OF DECK.
3) **A)** PERIMETER FIRESTOP SYSTEM - INTUMESCENT TOP TRACK SEAL - INSTALL PER MANUFACTURER'S INSTRUCTIONS
   **B)** FORMING MATERIAL - MINERAL WOOL PREFORMED PLUGS
   **C)** STEEL PLATES (OPTIONAL) NOT APPLICABEL WHEN SFRM IS USED. NOM 2" W X 1/2" L BY MIN 20 GA STEEL PLATE BUTTED AGAINST CEILING RUNNER AT BOTH SIDES OF WALL TO SPAN FLUTE AND SUPPORT THE FLUTE PLUG. ANCHOR PLATE TO BOTTOM OF DECK.

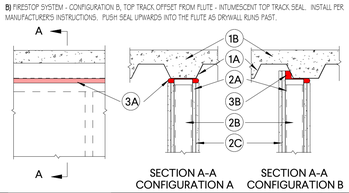



SECTION A-A

## GYPSUM STUD WALL PERPENDICULAR TO CONCRETE FLOOR ASSEMBLY W/ FLUTED METAL DECK (MAX. JW 1-1/2")

| | |
|---|---|
| A | HW-D-0538 |
| B | HW-D-0043 |
| C | HW-D-0604 |

1) FLOOR ASSEMBLY - FIRE-RATED FLUTED DECK/CONCRETE ASSEMBLY (PER D700 OR D900 FLOOR-CEILING DESIGN) INCLUDING:
   **A)** STEEL DECK, MAX 3" DP.
   **B)** CONCRETE, MIN 2-1/2" TH ABOVE TOP PLANE OF DECK.
   **C)** SPRAY-APPLIED FIRE RESISTIVE MATERIAL (OPTIONAL) DECK MAY BE SPRAYED W/ SFRM AS PER D700 OR D900 SERIES DESIGN
2) WALL ASSEMBLY - 1 OR 2 HR FIRE-RATED GYPSUM BOARD/STEEL STUD WALL ASSEMBLY (PER U400 SERIES DESIGN INCLUDING:
   **A)** STEEL FLOOR RUNNERS, MIN 25 GA GALV STEEL CHANNELS, OR, **A1)** (ALTERNATIVE) SLOTTED DEFLECTION RUNNER.
   **B)** STEEL STUDS, MIN 3-1/2" W. STUDS CUT 3/4" TO 1" LESS IN LENGTH THAN ASSEMBLY HEIGHT. MAX SPACING 24" O.C.
   **C)** GYPSUM BOARD - ONE OR TWO LAYERS 5/8" TH GYPSUM BOARD AS REQD FOR RATED ASSEMBLY. MAX TOP GAP TO UNDERSIDE OF DECK VARIES 7/8", 1", OR 1-5/8". MAINTAIN JOINT WIDTH TO MOVEMENT CAPABILITY AS TESTED IN THIS ASSEMBLY.
3) **A)** PERIMETER FIRESTOP SYSTEM - CONFIGURATION A, TOP TRACK IN LINE W/ FLUTE - INTUMESCENT TOP TRACK SEAL. INSTALL PER MANUFACTURER'S INSTRUCTIONS
   **B)** FIRESTOP SYSTEM - CONFIGURATION B, TOP TRACK OFFSET FROM FLUTE - INTUMESCENT TOP TRACK SEAL. INSTALL PER MANUFACTURER'S INSTRUCTIONS. PUSH SEAL UPWARDS INTO THE FLUTE AS DRYWALL RUNS PAST.

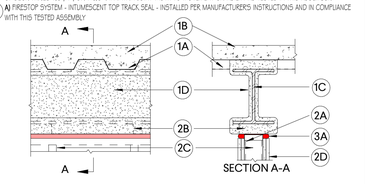



SECTION A-A CONFIGURATION A SECTION A-A CONFIGURATION B

## GYPSUM STUD WALL TO CONCRETE FLOOR (MAX. JW 1-1/2")

| | |
|---|---|
| A | HW-D-0540 |
| B | HW-D-0031 |
| C | HW-D-0043 |

1) FLOOR ASSEMBLY - FIRE-RATED FLUTED DECK/CONCRETE ASSEMBLY (PER D700 OR D900 FLOOR-CEILING DESIGN) INCLUDING:
   **A)** STEEL DECK, MAX 3" DP.
   **B)** CONCRETE, MIN 2-1/2" TH ABOVE TOP PLANE OF DECK.
   **C)** STRUCTURAL STEEL SUPPORT - STEEL BEAM
   **D)** SPRAY-APPLIED FIRE RESISTIVE MATERIAL (OPTIONAL) DECK MAY BE SPRAYED W/ SFRM AS PER D900 SERIES DESIGN
2) WALL ASSEMBLY - 1 OR 2 HR FIRE-RATED GYPSUM BOARD/STEEL STUD WALL ASSEMBLY AS PER U400, V400, OR W400 SERIES DESIGN INCLUDING:
   **A)** STEEL FLOOR RUNNERS, MIN 25 GA GALV STEEL CHANNELS, OR, **A1)** (ALTERNATIVE) SLOTTED DEFLECTION RUNNER.
   **B)** STEEL ATTACHMENT CLIPS - 2 CLIPS, MIN 20 GA, BETWEEN BOTTOM OF BEAM AND AND TOP RUNNER
   **C)** STEEL STUDS, MIN 3-1/2" W. STUDS CUT 1-1/4" TO 1-1/2" LESS IN LENGTH THAN ASSEMBLY HEIGHT. MAX SPACING 24" O.C.
   **D)** GYPSUM BOARD - ONE OR TWO LAYERS 5/8" TH GYPSUM BOARD AS REQD FOR RATED ASSEMBLY. MAX TOP GAP TO UNDERSIDE OF DECK VARIES 7/8", 1", OR 1-5/8". MAINTAIN JOINT WIDTH TO MOVEMENT CAPABILITY AS TESTED IN THIS ASSEMBLY.
3) **A)** FIRESTOP SYSTEM - INTUMESCENT TOP TRACK SEAL - INSTALLED PER MANUFACTURER'S INSTRUCTIONS AND IN COMPLIANCE WITH THIS TESTED ASSEMBLY




SECTION A-A

## GYPSUM STUD WALL TO BOTTOM OF FIREPROOFED BEAM W/ INTUMESCENT TOP TRACK SEAL (MAX JW 1/2")

| | |
|---|---|
| A | HW-D-0875 |
| B | N/A |
| C | HW-D-0465 |

## JOINT FIRESTOPPING GENERAL NOTES

1. GENERAL

A. ALL THROUGH-PENETRATION FIRESTOP WORK SHALL COMPLY WITH THE REQUIREMENTS OF **SECTION 078443 – JOINT FIRESTOPPING.**
B. THE DETAILS SHOWN HEREIN ILLUSTRATE FREQUENTLY ENCOUNTERED JOINT FIRESTOPPING CONDITIONS. THEY ARE GENERIC REPRESENTATIONS OF SYSTEMS AVAILABLE FROM SEVERAL MANUFACTURERS.
C. SELECTION OF APPROPRIATE SYSTEMS SHALL BE THE RESPONSIBILITY OF THE FIRESTOP CONTRACTOR, AND MUST BE SUBMITTED FOR ARCHITECT'S APPROVAL. EACH SELECTION SHALL BE APPROPRIATE FOR THE JOINT TYPE AND SUBSTRATE, AND SHALL COMPLY WITH THE SPECIFIC REQUIREMENTS OF A UL LISTED SYSTEM DESIGN.
D. WHERE NO APPLICABLE UL DESIGN IS AVAILABLE FOR A PARTICULAR FIRESTOP CONFIGURATION, SUBMIT AN ENGINEERING JUDGMENT (EJ), OR EQUIVALENT FIRE RESISTANCE RATED ASSEMBLY (EFRRA), PREPARED BY THE FIRESTOP MANUFACTURER.

2. APPLICABILITY

A. PROVIDE JOINT FIRESTOPPING SYSTEMS FOR ALL WALL-TO-WALL, HEAD-OF-WALL, OR BOTTOM-OF-WALL JOINTS OF FIRE RESISTANCE RATED CONSTRUCTION MATCHING WALL RATING, WHETHER OR NOT SPECIFICALLY DETAILED ON THE DRAWINGS.

3. QUALITY ASSURANCE

A. COMPLY WITH "INSTALLER QUALIFICATIONS" AND "ON-SITE RESPONSIBLE PARTY" PROVISIONS OF SPECIFICATION SECTION 078443 – JOINT FIRESTOPPING.
B. OBTAIN ALL FIRESTOPPING MATERIALS THROUGH ONE SOURCE FROM A SINGLE MANUFACTURER.
C. COMMENCE FIRESTOPPING WORK ONLY AFTER SUBMITTALS (INCLUDING MOCKUPS WHERE APPLICABLE) ARE APPROVED, AND PRE-INSTALLATION CONFERENCE IS SUCCESSFULLY CONCLUDED.

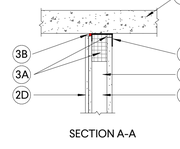
4. INSTALLATION - GENERAL

A. COMPLY WITH UL SYSTEM REQUIREMENTS AND FIRESTOPPING MANUFACTURERS' PRINTED INSTALLATION INSTRUCTIONS.
B. INSTALL FORMING MATERIALS AND OTHER ACCESSORIES OF TYPES REQUIRED TO SUPPORT FILL MATERIALS DURING THEIR APPLICATION AND IN THE POSITION NEEDED TO PRODUCE CROSS-SECTIONAL SHAPES AND DEPTHS REQUIRED TO ACHIEVE FIRE RATINGS INDICATED.
C. INSTALL FILL MATERIALS BY PROVEN TECHNIQUES TO PRODUCE THE FOLLOWING RESULTS:
   1. FILL VOIDS AND CAVITIES FORMED BY OPENINGS, FORMING MATERIALS, AND ACCESSORIES AS REQUIRED TO ACHIEVE FIRE-RESISTANCE RATINGS INDICATED,
   2. APPLY MATERIALS SO THEY CONTACT AND ADHERE TO SUBSTRATES AS REQUIRED FOR SEAMLESS INSTALLATION,
D. FOR FILL MATERIALS THAT WILL REMAIN EXPOSED AFTER COMPLETING WORK, FINISH TO PRODUCE SMOOTH UNIFORM SURFACES THAT ARE FLUSH WITH ADJOINING FINISHES.
E. REMOVE COMBUSTIBLE FORMING MATERIALS, AND OTHER ACCESSORIES, THAT ARE NOT INDICATED AS PERMANENT COMPONENTS OF FIRESTOPPING SYSTEMS. REMOVE EXCESS SEALANT FROM ADJOINING SURFACES.
F. IDENTIFY JOINT FIRESTOPPING SYSTEMS WITH PERMANENTLY ATTACHED,PREPRINTED METAL OR PLASTIC LABELS, AS SPECIFIED.
G. INSPECT FILL MATERIALS AFTER 48 HOURS FOR COMPLETE ADHESION AND SEAL IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS. CORRECT DEFICIENCIES AND RE-INSPECT.

## CONCRETE WALL TO WALL JOINT (MAX. JW 1")

| | |
|---|---|
| A | WW-D-0032 |
| B | WW-D-0021 |
| C | WW-D-0103 |

1) FLOOR ASSEMBLY - MIN 4-1/2" TH REINFORCED STRUCTURAL CONCRETE OR, ANY 6" TH UL CLASSIFIED HOLLOW-CORE PRECAST CONCRETE UNITS.
   **B)** NOT SHOWN, ALTERNATE FIRE-RATED FLUTED STEEL DECK/CONCRETE ASSEMBLY CONSISTING OF MIN 3" DP GALV STEEL FLUTED UNITS AND MIN 2-1/2" TH REINFORCED CONCRETE MEASURED ABOVE TOP PLANE OF THE FLUTES.
2) WALL ASSEMBLY - 1 OR 2 HR FIRE-RATED GYPSUM BOARD/STEEL STUD WALL ASSEMBLY INCLUDING:
   **A)** STEEL FLOOR AND CEILING RUNNERS, MIN 24 GA GALV STEEL J-SHAPED CHANNELS W/ UNEQUAL LEGS MIN 1-1/4" AND 2".
   **B)** STEEL STUDS, MIN 24 GA GALV C-H SHAPED STUDS, MIN 2-1/2" W. STUDS CUT 3/8 TO 1/2" LESS IN LENGTH THAN ASSEMBLY HEIGHT. MAX SPACING 24" O.C.
   **C)** GYPSUM BOARD - 1" TH GYPSUM BOARD LINER PANELS AS REQD FOR RATED ASSEMBLY.
   **D)** GYPSUM BOARD - 1/2 OR 5/8" TH, ON FINISHED SIDE OF WALL W/ BOTTOM FLOOR GAP OF MAX 3/4".
3) FIRESTOP SEALANT@ FLOOR GAP, MAX 3/4" H, FULL DEPTH. TOOL FLUSH W/ FINISH FACE OF WALL.

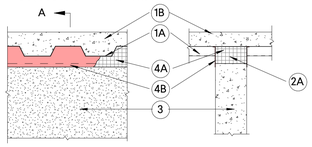



SECTION A-A

## GYPSUM SHAFT WALL TO FLAT CONCRETE FLOOR W/ INTUMESCENT TOP TRACK SEAL

| | |
|---|---|
| A | HW-D-0824 |
| B | HW-D-0552 |
| C | N/A |

1) FLOOR ASSEMBLY - FIRE-RATED FLUTED DECK/CONCRETE ASSEMBLY (PER D700 OR D900 FLOOR-CEILING DESIGN) INCLUDING:
   **A)** STEEL DECK, MAX 3" DP.
   **B)** CONCRETE, MIN 2-1/2" TH ABOVE TOP PLANE OF DECK.
   **C)** SPRAY-APPLIED FIRE RESISTIVE MATERIAL (OPTIONAL) DECK MAY BE SPRAYED W/ SFRM AS PER D700 SERIES DESIGN
2) ROOF ASSEMBLY - AS AN ALTERNATE TO ITEMS 1A AND 1B, A FIRE-RATED PROTECTED FLUTED STEEK DECK ROOF ASSEMBLY (PER P700 ROOF/CEILING DESIGN) INCLUDING:
   **A)** STEEL DECK, MAX 3" DP. **B)** SPRAY-APPLIED FIRE RESISTIVE MATERIALS APPLIED AS PER P700 SERIES DESIGN.
3) WALL ASSEMBLY - MIN 8" TH REINFORCED STRUCTURAL CONCRETE. WALL MAY ALSO BE CONSTRUCTED OF ANY UL CLASSIFIED CONCRETE BLOCKS.
4) **A)** FORMING MATERIAL - MINERAL WOOL BATTS, PLUGS, OR PRECUT STRIPS
   **B)** FIRESTOP SEALANT MIN 1/8" WET THICKNESS, SPRAYED OR TROWELED. OVERLAP CONCRETE WALL MIN 1/2". OVERLAP STEEL DECK MIN 1/2" OR, OVERLAP SFRM MIN 2", ON BOTH SIDES OF WALL

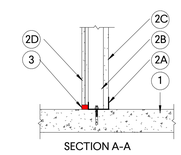



A SECTION A-A

## GYPSUM SHAFT WALL TO CONCRETE FLOOR W/APPLIED SEALANT JOINT

| | |
|---|---|
| A | BW-S-0023 |
| B | BW-S-0037 |
| C | BW-S-0020 |

1) FLOOR ASSEMBLY - MIN 2-1/2" TH REINFORCED STRUCTURAL CONCRETE
2) WALL ASSEMBLY - 1 OR 2 HR FIRE-RATED GYPSUM BOARD/STEEL STUD SHAFT WALL ASSEMBLY INCLUDING:
   **A)** STEEL FLOOR AND CEILING RUNNERS, MIN 24 GA GALV STEEL J-SHAPED CHANNELS W/ UNEQUAL LEGS MIN 1-1/4" AND 2", **B)** STEEL STUDS, MIN 24 GA GALV C-H SHAPED STUDS, MIN 2-1/2" W. STUDS CUT 3/8 TO 1/2" LESS IN LENGTH THAN ASSEMBLY HEIGHT. MAX SPACING 24" O.C. **C)** GYPSUM BOARD - 1" TH GYPSUM BOARD LINER PANELS AS REQD FOR RATED ASSEMBLY. **D)** GYPSUM BOARD - 1/2 OR 5/8" TH, ON FINISHED SIDE OF WALL W/ BOTTOM FLOOR GAP OF MAX 3/4". **E)** BATT INSULATION (NOT SHOWN, OPTIONAL) ANY GLASS FIBER INSULATION BEARING UL CLASSIFICATION MARK.
3) FIRESTOP SEALANT@ FLOOR GAP, MAX 3/4" H, FULL DEPTH. TOOL FLUSH W/ FINISH FACE OF WALL.

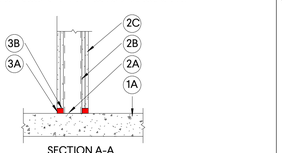



SECTION A-A

## GYPSUM STUD WALL TO CONCRETE FLOOR W/INTUMESCENT BOTTOM TRACK SEAL

| | |
|---|---|
| A | BW-S-0068 |
| B | BW-S-0008 |
| C | BW-S-0028 |

1) FLOOR ASSEMBLY - MIN 4-1/2" TH REINFORCED STRUCTURAL CONCRETE OR, ANY 6" TH UL CLASSIFIED HOLLOW-CORE PRECAST CONCRETE UNITS.
   **B)** NOT SHOWN, ALTERNATE FIRE-RATED FLUTED STEEL DECK/CONCRETE ASSEMBLY CONSISTING OF MIN 3" DP GALV STEEL FLUTED UNITS AND MIN 2-1/2" TH REINFORCED CONCRETE MEASURED ABOVE TOP PLANE OF THE FLUTES.
2) WALL ASSEMBLY - 1 OR 2 HR FIRE-RATED GYPSUM BOARD/STEEL STUD WALL ASSEMBLY INCLUDING:
   **A)** STEEL FLOOR RUNNERS, MIN 25 GA GALV STEEL CHANNELS
   **B)** STEEL STUDS, MIN 3-1/2" W. STUDS CUT 1/2 TO 3/4" LESS IN LENGTH THAN ASSEMBLY HEIGHT. MAX SPACING 24" O.C.
   **C)** GYPSUM BOARD - ONE OR 2 LAYERS 5/8" TH GYPSUM BOARD AS REQD FOR RATED ASSEMBLY W/ BOTTOM FLOOR GAP OF MAX 1" (1 X 2 HR RATED ASSEMBLIES) OR 7/8" (3 X 4 HR RATED ASSEMBLIES)
3) INTUMESCENT BOTTOM TRACK SEAL SECURED TO FLOOR RUNNER WASHERSIVE BACKING, 4 RESTING TIGHT TO TOP OF CONCRETE. PRODUCT TO BE COMPRESSED TIGHTLY AT SEAM LOCATIONS TO ENSURE NO GAPS.




SECTION A-A

## GYPSUM SHAFT WALL TO CONCRETE FLOOR W/INTUMESCENT BOTTOM TRACK SEAL

| | |
|---|---|
| A | BW-S-0070 |
| B | N/A |
| C | BW-S-0029 |

1) FLOOR ASSEMBLY - MIN 4-1/2" TH REINFORCED STRUCTURAL CONCRETE OR, ANY 6" TH UL CLASSIFIED HOLLOW-CORE PRECAST CONCRETE UNITS.
   **B)** NOT SHOWN, ALTERNATE FIRE-RATED FLUTED STEEL DECK/CONCRETE ASSEMBLY CONSISTING OF MIN 3" DP GALV STEEL FLUTED UNITS AND MIN 2-1/2" TH REINFORCED CONCRETE MEASURED ABOVE TOP PLANE OF THE FLUTES.
2) SHAFT WALL ASSEMBLY - 1 OR 2 HR FIRE-RATED GYPSUM BOARD/STEEL STUD SHAFT WALL ASSEMBLY INCLUDING:
   **A)** STEEL FLOOR AND CEILING RUNNERS, MIN 24 GA GALV STEEL J-SHAPED CHANNELS W/ UNEQUAL LESS MIN 1-1/4" AND 2".
   **B)** STEEL STUDS, MIN 24 GA GALV C-H SHAPED STUDS, MIN 2-1/2" W. STUDS CUT 3/8 TO 1/2" LESS IN LENGTH THAN ASSEMBLY HEIGHT. MAX SPACING 24" O.C.
   **C)** GYPSUM BOARD - 1" TH GYPSUM BOARD LINER PANELS AS REQD FOR RATED ASSEMBLY.
   **D)** BATT INSULATION (NOT SHOWN, OPTIONAL) ANY GLASS FIBER INSULATION BEARING UL CLASSIFICATION MARK.
3

## OVERALL BUILDING AREA

| BUILDING 300 | | BUILDING 700 | |
|---|---|---|---|
| LEVEL | AREA (GROSS SQUARE FEET) | LEVEL | AREA (GROSS SQUARE FEET) |
| 1 | 9,445 GSF | 1 | 12,880 GSF |
| TOTAL | 9,445 GSF | TOTAL | 12,880 GSF |

## APPLICABLE CODES & REGULATIONS

| | |
|---|---|
| 2021 | INTERNATIONAL BUILDING CODE (IBC) |
| 2021 | INTERNATIONAL FUEL GAS CODE (IFGC) |
| 2021 | INTERNATIONAL MECHANICAL CODE (IMC) |
| 2021 | INTERNATIONAL PLUMBING CODE (IPC) |
| 2021 | INTERNATIONAL FIRE CODE (IFC) |
| 2021 | NATIONAL ELECTRICAL CODE (NEC) |
| 2021 | INTERNATIONAL ENERGY CONSERVATION CODE (IECC) |
| 2013 | ANSI/ASHRAE/IESNA STANDARD 90.1 |
| 2010 | STANDARDS FOR ACCESSIBLE DESIGN |

## OCCUPANCY CLASSIFICATION — IBC CH 3

| | |
|---|---|
| OCCUPANCY | PRIMARY : B - BUSINESS (GROUP-B) |

## SPECIAL REQUIREMENTS — IBC CH 4

N/A

## CONSTRUCTION CLASSIFICATION — IBC CH 5

| | | | |
|---|---|---|---|
| CONSTRUCTION TYPE | *TYPE IIB - NOT SPRINKLERED* | | |
| HEIGHT | ALLOWABLE: 55 FEET | ACTUAL BLDG 300<br>12'-8" | ACTUAL BLDG 700<br>12'-8" |
| # OF STORIES | ALLOWABLE: 3 | 1 | 1 |
| HEIGHT MODIFICATIONS | N/A | | |
| AREA PER FLOOR | ALLOWABLE: 19,000 SF/STORY | 9,445 SF GROSS | 12,880 SF GROSS |

AREA MODIFICATIONS : PER IBC CH 5, BUILDING AREAS LIMITED BY TABLE 503 SHALL BE PERMITTED TO BE INCREASED DUE TO FRONTAGE AND AUTOMATIC SPRINKLER SYSTEM PROTECTION.

TWO OR MORE BUILDINGS ON THE SAME LOT SHALL BE REGULATED AS SEPARATE BUILDINGS OR SHALL BE CONSIDERED AS PORTIONS OF ONE BUILDING WHERE THE BUILDING HEIGHT, NUMBER OF STORIES,OR EACH BUILDING AND THE AGGREGATE BUILDING AREA OF THE BUILDINGS ARE WITHIN THE LIMITATIONS SPECIFIED IN SECTIONS 504 AND 506. THE PROVISIONS OF THE CODE APPLICABLE TO THE AGGREGATE BUILDING SHALL BE APPLICABLE TO EACH BUILDING.

## FIRE RESISTANCE - STRUCT. ELEMENTS — IBC CH 6

RESISTANCE REQUIRED BY IBC TYPE TABLE 601

CONSTRUCTION TYPE : IIB

| | RESISTANCE REQUIRED | RESISTANCE PROVIDED | |
|---|---|---|---|
| | | RATING | ACHIEVED BY |
| **BUILDING ELEMENT - STRUCTURAL** | | | |
| **PRIMARY STRUCTURAL FRAME (PER CH 2 WITH RATING NOT LESS THAN CH 7)** | | | |
| COLUMNS<br>STRUCTURAL MEMBERS HAVING DIRECT CONNECTION TO COLUMNS - BEAMS, GIRDERS, TRUSSES, AND SPANDRELS | 0 HR | 0 HR | N/A |
| **BEARING WALLS** | | | |
| EXTERIOR WALLS (RATING NOT LESS THAN CH 6 OR CH 7) | 0 HR | 0 HR | N/A |
| INTERIOR WALLS | 0 HR | 0 HR | N/A |
| **NON BEARING WALLS AND PARTITIONS** | | | |
| EXTERIOR WALLS (BASED ON FIRE SEPARATION DISTANCE PER CH 6) | 0 HR | 0 HR | N/A |
| **NON BEARING WALLS AND PARTITIONS** | | | |
| INTERIOR WALLS (RATING NOT LESS THAN REQUIRED BY SECTIONS OTHER THAN SECTION 6) | 0 HR | 0 HR | N/A |
| **FLOOR CONSTRUCTION AND SECONDARY MEMBERS (PER CH 2)** | | | |
| FLOOR CONSTRUCTION HAVING DIRECT CONNECTIONS TO THE COLUMNS | 0 HR | 0 HR | N/A |
| **ROOF CONSTRUCTION AND SECONDARY MEMBERS (PER CH 2)** | | | |
| ROOF CONSTRUCTION HAVING DIRECT CONNECTIONS TO THE COLUMNS | 0 HR | 0HR | N/A |

## FIRE RESISTANCE - WALLS / PARTITIONS — IBC CH 7

N/A

## FIRE RESISTANCE - WALLS & PARTITIONS — IBC CH 7

| WALLS AND PARTITIONS | IBC TBLS. 716.1 (1)-(3) | OPENING PROTECTION | RESISTANCE PROVIDED RATING | RESISTANCE PROVIDED ACHIEVED BY |
|---|---|---|---|---|
| SHAFT ENCLOSURES | | | | |
| * LESS THAN 4 STORIES | 1 HR | N/A | N/A | N/A |
| * 4 OR MORE STORIES | 2 HR | N/A | N/A | N/A |
| FIRE WALLS | N/A | N/A | N/A | N/A |
| HORIZONTAL EXITS | N/A | N/A | N/A | N/A |
| EXIT PASSAGEWAYS | N/A | N/A | N/A | N/A |
| SMOKE BARRIERS | 1 HR | N/A | N/A | N/A |
| ACCESSORY / INCIDENTAL USE | IBC TBL 509.1 | | | |
| * LABS & VOCATIONAL SHOPS | 1 HR | N/A | N/A | N/A |

## FIRE RESISTANCE - HORIZONTAL ASSEMBLIES

| HORIZONTAL ASSEMBLIES | IBC | RESISTANCE PROVIDED RATING | RESISTANCE PROVIDED ACHIEVED BY |
|---|---|---|---|
| FLOOR/CEILING | 0 HR | N/A | N/A |

## MEANS OF EGRESS — IBC CH 10

| | | |
|---|---|---|
| MAXIMUM ALLOWABLE | BUSINESS | |
| TRAVEL DISTANCE TO EXIT | 200 FT | |
| COMMON PATH OF TRAVEL | 75 FT | |
| DEAD END LENGTH | 20 FT | |
| EGRESS OCCUPANTS (DESIGN LOAD) | BUILDING 300:<br>CALCULATION VALUES — OCCUPANCY COUNT<br>OCC TYPE : BUSINESS — 8,991/150 GSF = 59.94<br>OCC TYPE: STORAGE — 454/300 GSF = 1.51<br>TOTAL OCCUPANTS = 61.45 OCCUPANTS ---> 62 OCCUPANTS<br><br>BUILDING 700:<br>CALCULATION VALUES — OCCUPANCY COUNT<br>OCC TYPE : BUSINESS — 11,796/150 GSF = 78.46<br>OCC TYPE: STORAGE — 1,111/300 GSF = 3.7<br>TOTAL OCCUPANTS = 82.16 OCCUPANTS---> 83 OCCUPANTS | |
| STAIRWAY WIDTH | N/A | N/A |
| EGRESS WIDTH | REQUIRED: 0.2" PER OCCUPANT | |
| | BUILDING 300<br>62 OCCUPANTS = 12.4"<br>PROVIDED = 169" | BUILDING 700<br>83 OCCUPANTS = 16.6"<br>PROVIDED = 204" |

## PLUMBING FIXTURE TABULATIONS

| | | ACTUAL LOAD CALCULATIONS — BUILDING 300 | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | WC | | | LAV | | | | | |
| OCCUPANCY | OCCUPANT LOAD (ACTUAL) | M | F | U/SX | M | F | U/SX | BATH/ SHOWER | DRINKING FOUNTAIN | SVC SINKS |
| B BUSINESS | 62 31 EA M F | 1.24 | 1.24 | - | .77 | .77 | - | - | 1 | 1 |
| TOTAL REQUIRED | | 2 | 2 | - | 1 | 1 | - | - | 1 | 1 |
| TOTAL PROVIDED | | 4 | 4 | - | 3 | 3 | - | - | 1 | 1 |

| | | ACTUAL LOAD CALCULATIONS — BUILDING 700 | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | WC | | | LAV | | | | | |
| OCCUPANCY | OCCUPANT LOAD (ACTUAL) | M | F | U/SX | M | F | U/SX | BATH/ SHOWER | DRINKING FOUNTAIN | SVC SINKS |
| B BUSINESS | 83 42 EA M F | 1.68 | 1.68 | - | 1 | 1 | - | - | 1 | 1 |
| TOTAL REQUIRED | | 2 | 2 | - | 1 | 1 | - | - | 1 | 1 |
| TOTAL PROVIDED | | 4 | 4 | - | 3 | 3 | - | - | 1 | 1 |

*NOTE 1* PURSUANT TO INTERNATIONAL PLUMBING CODE SECTION 410.4, BOTTLE FILLING STATIONS MAY BE INCLUDED IN DRINKING FOUNTAIN COUNTS.

NOTE 2* PURSUANT TO INTERNATIONAL BUILDING CODE SECTION 2902.1.2, FAMILY OR ASSISTED-USE TOILET AND BATHING FIXTURES ARE PERMITTED TO BE INCLUDED IN THE NUMBER OR REQUIRED FIXTURES FOR EITHER MALE OR FEMALE OCCUPANTS.

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ISSUE DATE 05/27/2026
IFB SET
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CHECKED BY: Checker

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ACCS 2025 162 RSTCC
GMC ABHM250047

STATE OF ALABAMA
PATRICK SWATEK
8969
REGISTERED ARCHITECT

**LIFE SAFETY - CODE ANALYSIS**

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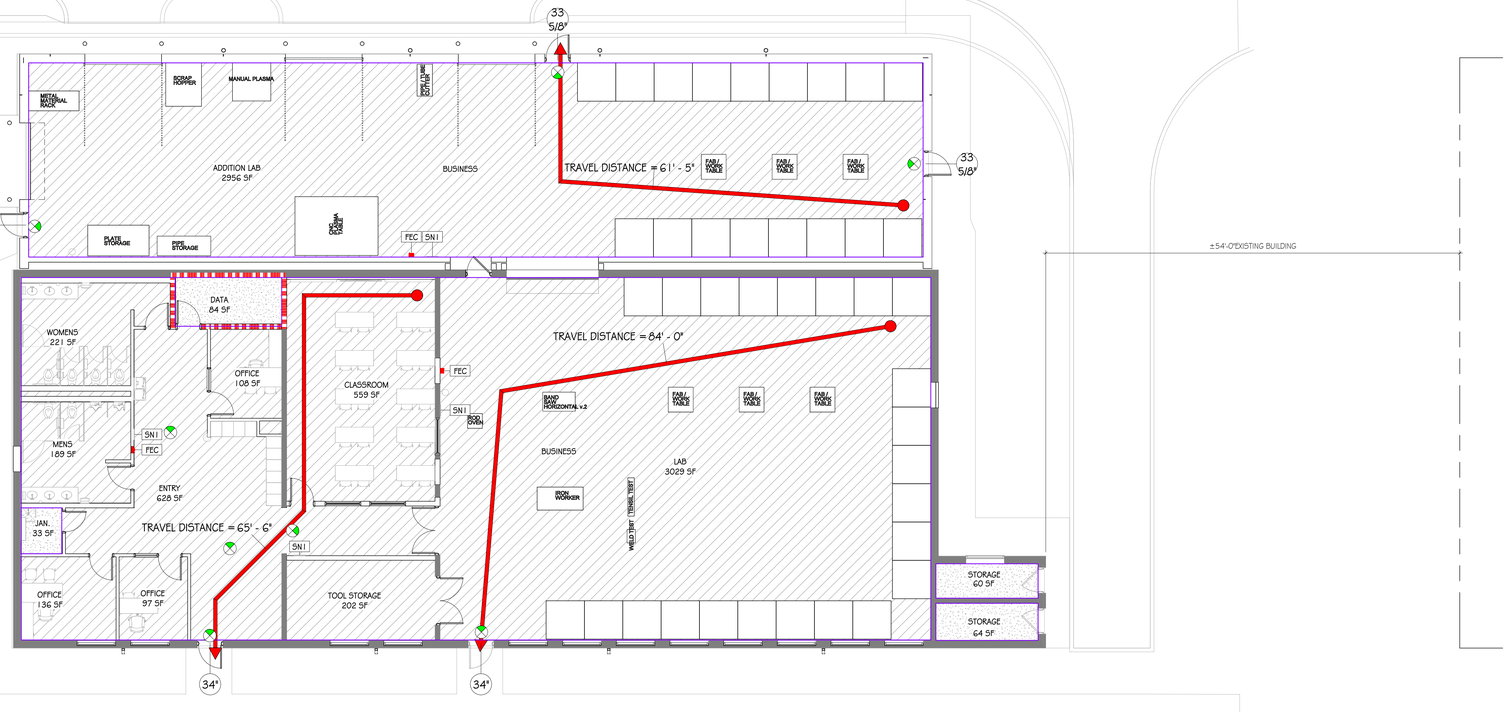
OCCUPANCY LEGEND

- ACCESSORY STORAGE, MECHANICAL EQUIP ROOM
- BUSINESS AREAS - IBC 2018

PLAN NORTH / TRUE NORTH

## F3 BUILDING 700 - LS PLAN

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




OCCUPANCY LEGEND

- ACCESSORY STORAGE, MECHANICAL EQUIP ROOM
- BUSINESS AREAS - IBC 2018

PLAN NORTH / TRUE NORTH

## A3 BUILDING 300 - LS PLAN

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

### LIFE SAFETY SIGNAGE LEGEND

5N I ..... EMERGENCY EVACUATION MAP SIGNAGE

### PLAN LEGEND

- FE ..... FIRE EXTINGUISHER
- FEC ..... FIRE EXTINGUISHER CABINET
- ..... ILLUMINATED EXIT SIGN
- ..... DISTANCE OF TRAVEL
- ..... 2 - HR FIRE BARRIER

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LIFE SAFETY PLANS

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## PROJECT NOTES

1. THIS PROJECT IS BASED ON A LUMP SUM CONTRACT. ALL WORK DESCRIBED, SHOWN, REFERENCED, OR OTHERWISE INDICATED IN OR ON THE DRAWINGS, PROPOSAL, ADVERTISEMENT AND SPECIFICATIONS ARE TO BE COMPLETED IN-PLACE AND SERVICEABLE ACCORDING TO THE PLANS, INSTRUCTIONS, SPECIFICATIONS, LINES AND GRADES INDICATED ON THE PLANS AND ALL APPLICABLE STATE, FEDERAL, AND MUNICIPAL CODES AND STANDARDS. INDIVIDUAL ITEMS OF WORK THAT ARE NECESSARY TO COMPLETE THE PROJECT TO THE LINES AND GRADES, WHETHER SHOWN OR DESCRIBED IN THE PLANS AND SPECIFICATIONS, ARE TO BE CONSIDERED INCIDENTAL AND ARE THE RESPONSIBILITY OF THE CONTRACTOR.
2. THE CONTRACTOR IS RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH ALL PERMITS FOR THIS PROJECT.
3. SITE SECURITY WILL BE THE RESPONSIBILITY OF THE CONTRACTOR.
4. ALL FUEL STORAGE TANKS USED ON THE SITE BY THE CONTRACTOR MUST MEET ALL LOCAL, STATE AND FEDERAL CODES AND REGULATIONS.
5. THE CONTRACTOR WILL BE RESPONSIBLE FOR TEMPORARY DIVERSION OF RUNOFF WATER, AS REQUIRED TO FACILITATE CONSTRUCTION OR AS DIRECTED ON-SITE BY THE ENGINEER. THIS TEMPORARY DRAINAGE OF RUNOFF IS CONSIDERED INCIDENTAL TO THE BID.
6. ELECTRONIC DATA THAT MAY BE GIVEN TO THE CONTRACTOR EITHER AS AN AID IN THE PREPARATION OF HIS BID OR IN THE CONSTRUCTION OF THE IMPROVEMENTS WILL BE DONE SO STRICTLY AS A COURTESY TO THE CONTRACTOR. THE ENGINEER DOES NOT WARRANT THE ACCURACY OF THE ELECTRONIC INFORMATION SO TRANSFERRED. IN ALL CASES, THE PRINTED PLANS AS ISSUED BY THE ENGINEER SHALL GOVERN. A LETTER RELEASING THE ENGINEER FROM LIABILITY WILL BE REQUIRED OF THE CONTRACTOR PRIOR TO THE RELEASE OF SAID INFORMATION.
7. THE CONTRACTOR IS RESPONSIBLE FOR NOTIFYING THE APPLICABLE GOVERNMENTAL AGENCIES AND DEPARTMENTS OF THE BEGINNING OF CONSTRUCTION.
8. NO DEVIATION FROM THE PLANS IS ALLOWED WITHOUT PRIOR APPROVAL FROM THE ENGINEER. SAID APPROVAL SHALL BE REQUESTED AND GIVEN IN WRITING. DELAYS CAUSED BY SAID REQUESTS SHALL NOT BE CONSIDERED FOR TIME EXTENSIONS OR ADDITIONAL COMPENSATION.
9. IT IS THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE THE WORK OF OTHER TRADES PRIOR TO INSTALLING THE IMPROVEMENTS SHOWN IN THESE PLANS.
10. THESE PLANS HAVE NOT BEEN APPROVED BY ALL OF THE REGULATORY AGENCIES AT THIS TIME. THE CONTRACTOR SHALL ANTICIPATE REVISIONS AND/OR DELAYS ASSOCIATED WITH OBTAINING PLAN APPROVAL. THE CONTRACTOR SHALL NOT RECEIVE ADDITIONAL COMPENSATION FOR SAID DELAYS.
11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ASSURING ALL TRENCH EXCAVATIONS FOR THIS PROJECT ARE IN ACCORDANCE WITH OSHA REGULATIONS.
12. CONTRACTOR TO ENSURE THAT IRRIGATION SYSTEM OUTSIDE OF THE CONSTRUCTION LIMITS REMAINS IN SERVICE. THE COST OF THIS WORK SHALL BE INCLUDED IN THE CONTRACTOR'S BID.
13. CONTRACTOR SHALL COORDINATE WITH THE OWNER THE AREAS TO BE USED FOR LAYDOWN AND TRAILERS.
14. CONTRACTOR SHALL RESTORE ALL THE AREAS USED FOR LAYDOWN AND TRAILER TO THEIR ORIGINAL CONDITION.
15. ALL CONCRETE TO BE REMOVED SHALL BE DONE TO THE NEAREST JOINT.

## EROSION/SEDIMENTATION CONTROL NOTES

1. THE CONTRACTOR IS RESPONSIBLE FOR IMPLEMENTING AND MAINTAINING EROSION/SEDIMENTATION CONTROL MEASURES IN ACCORDANCE WITH ADEM/EPA "BEST MANAGEMENT PRACTICES" AND ADEM NPDES PERMIT CONDITIONS. MEASURES SHOWN ON THE PLANS SHOULD BE CONSIDERED MINIMUMS. STRUCTURES / MEASURES SHOWN ALONG THE PERIMETER OF DISTURBED AREAS TO BE INSTALLED PRIOR TO DISTURBANCE ACTIVITY. OTHER MEASURES TO BE INSTALLED AS SOON AS CONSTRUCTION SEQUENCES ALLOW.
2. THE NPDES PERMIT FOR THIS SITE SHALL BE OBTAIN BY THE CONTRACTOR AND SHALL BE IN THE CONTRACTOR'S NAME. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COST ASSOCIATED WITH OBTAIN THE PERMIT, WHICH INCLUDES BUT IS NOT LIMITED TO THE PERMIT COST, SUBMITTAL OF THE PERMIT, PRODUCTION OF THE CONSTRUCTION BEST MANAGEMENT PRACTIICE PLAN, SITE INSPECTION REPORT, NOTICE OF TERMINATION, ETC. THE CONTRACT MAY CONTACT AMY RAWLINSON WITH GOODWYN MILLS CAWOOD, LLC (334) 590-1142, FOR ASSISTANCE WITH OBTAINING THE PERMIT AND PERFORMING THE INSPECTIONS.
3. THE CONTRACTOR IS RESPONSIBLE FOR ALL THE COST ASSOCIATED WITH CONSTRUCTING AND MAINTAINING THE SITE IN ACCORDANCE WITH THE ADEM/EPA NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT FOR THIS PROJECT. ALL THE COST ASSOCIATED WITH VIOLATIONS OF THE NPDES PERMIT SHALL BE RESPONSIBILITY OF THE CONTRACTOR. THIS INCLUDES, BUT IS NOT LIMITED TO ADEM/EPA FINES, ENGINEER'S COST TO RESPOND TO VIOLATIONS, ETC.
4. MAINTENANCE OF SAID STRUCTURES AND /OR MEASURES IS THE RESPONSIBILITY OF THE CONTRACTOR. ALL EROSION CONTROL STRUCTURES AND MEASURES TO BE INSPECTED IMMEDIATELY AFTER ALL RAINFALL EVENTS. CORRECTIVE ACTION, IF REQUIRED, MUST BE TAKEN IMMEDIATELY.
5. ALL BMPS SHALL BE DESIGNED AND INSTALLED IN ACCORDANCE WITH THE CONDITIONS OUTLINED IN ADEM NPDES PERMIT REGULATIONS, ALABAMA HANDBOOK FOR EROSION CONTROL SEDIMENT CONTROL AND STORM WATER MANAGEMENT ON CONSTRUCTION SITES AND URBAN AREAS, CONSTRUCTION BEST MANAGEMENT PRACTICES PLAN FOR THIS SITE, CITY OF EVERGREEN STANDARDS FOR EROSION AND SEDIMENT CONTROL, THE PLANS AND SPECIFICATIONS. IF CONFLICTS ARISE BETWEEN THESE REQUIREMENTS, THE MORE STRINGENT SHALL APPLY.
6. THE CONTRACTOR IS RESPONSIBLE FOR WHATEVER MEASURES ARE NECESSARY TO PRODUCE AND MAINTAIN AN ACCEPTABLE STAND OF GRASS. SAID MEASURES TO INCLUDE (BUT NOT LIMITED TO) WATERING, RE-SEEDING, REGRADING ERODED AREAS, RE-FERTILIZING, ETC.
7. CONTRACTOR IS RESPONSIBLE FOR KEEPING MUD AND DEBRIS OFF CITY/STATE STREETS AND ROW AT ALL TIMES. CLEANUP IS REQUIRED DAILY.
8. CONTRACTOR SHALL KEEP A COPY OF THE NPDES PERMIT AND THE "BEST MANAGEMENT PRACTICES PLAN" ON SITE AT ALL TIMES FOR THE ENTIRE DURATION OF THE PROJECT.
9. ANY AREA THAT HAS BEEN CLEARED OF ITS VEGETATIVE COVER AND WILL REMAIN SO FOR FIFTEEN (15) DAYS OR LONGER WITHOUT APPRECIABLE CONSTRUCTION ACTIVITY MUST BE SEEDED AND MULCHED WITHIN THIRTEEN (13) DAYS OF BEING DISTURBED. THOSE AREAS SHALL BE SEEDED AND MULCHED IN ACCORDANCE WITH THE LATEST EDITION OF THE ALD.O.T. CONSTRUCTION SPECIFICATIONS, UTILIZING THE APPROPRIATE SEED MIXES FOR THE REGION.
10. ADDITIONAL BMPS MAY BE REQUIRED BY THE ENGINEER, QCP, ADEM AND/OR CITY OF EVERGREEN OVER THE COURSE OF THE PROJECT TO PREVENT SEDIMENT RELEASE FROM THE SITE. IF ADDITIONAL BMPS ARE REQUIRED BEYOND WHAT IS SHOWN ON THE DRAWINGS, THE CONTRACTOR WILL BE PAID AT THE UNIT PRICE(S) ESTABLISHED AT THE BID DOCUMENTS.
11. THE USE OF FLOC-BLOCKS/ POLYACRYLAMIDE (PAM) OR OTHER SETTLING ENHANCEMENT MATERIALS SHALL BE REQUIRED DURING THE COURSE OF CONSTRUCTION TO MINIMIZE TURBIDITY AND PREVENT SEDIMENT RELEASE FROM THE SITE. THE ENGINEER, QCP, ADEM, AND THE CITY OF EVERGREEN MAY REQUIRE ADDITIONAL FLOC-BLOCKS/ PAM IF THE ITEMS BEING USED ARE NOT ADEQUATE TO PREVENT THE RELEASE OF SILT/SEDIMENTATION.
12. THE CONTRACTOR SHALL STABILIZE ALL DISTURBED AREAS IMMEDIATELY AFTER THE COMPLETION OF THE GRADING OPERATION. ALL AREAS OUTSIDE OF THE PAVEMENT TO RECEIVE A 4-INCH LAYER OF TOPSOIL. ALL TOPSOIL SHALL BE AS FOLLOWS:

A. FERTILE, FRIABLE, NATURALLY OCCURRING. FREE OF STONES, CLAY, LUMPS, HARDPAN, ROOTS, STUMPS, BRANCES, STICKS AND OTHER DEBRIS LARGER THAN ONE (1) INCH IN ANY DIMENSION; FREE OF NOXIOUS WEEDS, GRASSES, SEEDS, PLANTS,EXTRANEOUS MATTER AND ANY SUBSTANCE HARMFUL TO PLANT GROWTH. TOPSOIL FROM OPEN FIELDS WILL NOT BE ACCEPTED.
B. PH: 5.0 TO 7.0
C. ORGANIC MATTER: 5% TO 10%
D. SAND: 50% TO 70%
E. SILT: LESS THAN 30%
F. CLAY: 10% TO 25%
G. PERMEABILITY RATE OF 5 X 10 <-3> CENTIMETERS OR GREATER AT 85% COMPACTION.

13. MAINTENANCE OF ALL EARTH SURFACES, INCLUDING DITCH/SWALE SLOPES, IS THE RESPONSIBILITY OF THE CONTRACTOR. SAID MAINTENANCE TO INCLUDE REGRADING, TEMPORARY GRASSING, MOWING, ETC. AS MAY BE REQUIRED.
14. THE ENGINEER OR THE QCP MAY REQUIRE THE CONTRACTOR TO CLEAN UP SILT/SEDIMENT, REPLACE EROSION CONTROL OR ADD ADDITIONAL EROSION CONTROL MEASURES AT ANY TIME, IF THE MEASURES IN PLACE DO NOT APPEAR TO BE ADEQUATE AND/OR FUNCTIONING PROPERLY. THE COST ASSOCIATED WITH ANY OF THESE CORRECTIVE MEASURES SHALL BE INCLUDED IN THE CONTRACTOR'S BID, NO ADDITIONAL COMPENSATION WILL BE GIVEN TO THE CONTRACTOR FOR THIS WORK.
15. THE CONTRACTOR SHALL FREQUENTLY REMOVE ANY AND ALL SILT/SEDIMENTATION FROM THE SILT FENCE, DITCHES, CHECK DAMS AND DETENTION AREA. AT THE END OF CONSTRUCTION THESE AREAS SHALL BE COMPLETELY FREE OF SILT/SEDIMENTATION AND SHALL BE STABILIZED AS STATED IN THE PLANS AND SPECIFICATIONS.
16. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING THE SEDIMENT CONTROL MEASURES ONCE AN ACCEPTABLE STAND OF GRASS IS ESTABLISHED. THE OWNER AND ENGINEER SHALL DETERMINE IF THE GRASS IS ACCEPTABLE.
17. ALL STORM DRAINAGE INLETS TO BE PROTECTED FROM SEDIMENTATION AT ALL TIMES. THE CONTRACTOR SHALL INSTALL INLET PROTECTION OR PRE-APPROVED EQUIVALENT. INLET PROTECTION SHALL BE UTILIZED UNTIL ALL VEGETATION HAS BEEN INSTALLED AND "GROWN IN".
18. THE CONTRACTOR SHALL MAINTAIN THE CONSTRUCTION ENTRANCE AS REQUIRED TO PREVENT SILT/SEDIMENTAION FROM LEAVING THE SITE. THIS INCLUDES BUT IS NOT LIMITED TO WASH DOWN OF THE CONSTRUCTION ENTRANCE, INSTALLING AND UTILIZING A VEHICLE WASH DOWN AREA, INSTALLING ADDITIONAL STONE, ETC.
19. ALL FUEL STORAGE TANKS USED ON THE SITE BY THE CONTRACTOR MUST MEET ALL LOCAL, STATE AND FEDERAL CODES AND REGULATIONS.
20. THE CONTRACTOR WILL BE RESPONSIBLE FOR TEMPORARY DIVERSION OF RUNOFF WATER, AS REQUIRED TO FACILITATE CONSTRUCTION OR AS DIRECTED ON-SITE BY THE ENGINEER. THIS TEMPORARY DRAINAGE OF RUNOFF IS CONSIDERED INCIDENTAL TO THE BID.
21. THE CONTRACTOR SHALL USE HAY BALES BETWEEN SILT FENCES WHERE DOUBLE ROW OF SILT FENCE IS SHOWN ON THE PLANS.
22. THE GEOTEXTILE FABRIC TO BE USED UNDER THE RIP RAP SHALL BE US 250NW BY US FABRIC INC OR PRE-APPROVED EQUIVALENT.
23. ALL DISTURBED AREAS OUTSIDE OF THE PAVING SHALL BE FINE GRADED TO THE PLANNED GRADES AND SODDED WITH BERMUDA SOD.

## UTILITY NOTES

1. THE CONTRACTOR IS RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH ALL PERMITS FOR THIS PROJECT.
2. THE OWNER HAS NOT OBTAINED THE NPDES PERMIT AND IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO HAVE THE PERMIT IN ITS NAME. THIS COST SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH THE PERMIT, WHICH INCLUDES BUT NOT LIMITED TO TRANSFER FEE, INSPECTIONS, TERMINATION, VIOLATIONS, ETC.
3. SITE SECURITY WILL BE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR WILL BE RESPONSIBLE FOR INSTALLING A TEMPORARY CONSTRUCTION FENCE. SAID FENCE NEEDS TO BE COORDINATED WITH THE OWNER AND LEFT IN PLACE FOR FUTURE PACKAGE.
4. ALL FUEL STORAGE TANKS USED ON THE SITE BY THE CONTRACTOR MUST MEET ALL LOCAL, STATE AND FEDERAL CODES AND REGULATIONS.
5. THE CONTRACTOR WILL BE RESPONSIBLE FOR TEMPORARY DIVERSION OF RUNOFF WATER, AS REQUIRED TO FACILITATE CONSTRUCTION OR AS DIRECTED ON-SITE BY THE ENGINEER. THIS TEMPORARY DRAINAGE OF RUNOFF IS CONSIDERED INCIDENTAL TO THE BID.
6. ALL WATER AND SEWER LINE WORK TO BE DONE IN ACCORDANCE WITH THE EVERGREEN UTILITIES STANDARDS AND SPECIFICATIONS.
7. ELECTRONIC DATA THAT MAY BE GIVEN TO THE CONTRACTOR EITHER AS AN AID IN THE PREPARATION OF HIS BID OR IN THE CONSTRUCTION OF THE IMPROVEMENTS WILL BE DONE SO STRICTLY AS A COURTESY TO THE CONTRACTOR. THE ENGINEER DOES NOT WARRANT THE ACCURACY OF THE ELECTRONIC INFORMATION SO TRANSFERRED. IN ALL CASES, THE PRINTED PLANS AS ISSUED BY THE ENGINEER SHALL GOVERN. A LETTER RELEASING THE ENGINEER FROM LIABILITY WILL BE REQUIRED OF THE CONTRACTOR PRIOR TO THE RELEASE OF SAID INFORMATION.
8. THE CONTRACTOR IS RESPONSIBLE FOR NOTIFYING THE APPLICABLE GOVERNMENTAL AGENCIES AND DEPARTMENTS OF THE BEGINNING OF CONSTRUCTION.
9. THE CONTRACTOR IS RESPONSIBLE FOR ALL COST ASSOCIATED WITH REMOVING AND/OR RELOCATING EXISTING UTILITIES AND STRUCTURES TO CONSTRUCT THE IMPROVEMENTS SHOWN IN THESE PLANS. THE CONTRACTOR SHALL NOT RECEIVE ADDITIONAL COMPENSATION FOR REMOVING AND/OR RELOCATING ANY EXISTING ITEMS.
10. NO DEVIATION FROM THE PLANS IS ALLOWED WITHOUT PRIOR APPROVAL FROM THE ENGINEER. SAID APPROVAL SHALL BE GIVEN IN WRITING.
11. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING WITH THE VARIOUS UTILITY COMPANIES ON THE PLACEMENT OF THEIR SERVICES.
12. IT IS THE CONTRACTOR RESPONSIBILITY TO COORDINATE THE WORK OF OTHER TRADES PRIOR TO INSTALLING THE IMPROVEMENTS SHOWN IN THESE PLANS.
13. IT IS THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN FINAL APPROVAL OF WORK DONE ON OR ADJACENT TO EXISTING STREETS/ROADS AND RIGHT OF WAY. WRITTEN APPROVAL FROM THE APPLICABLE AGENCY IS REQUIRED PRIOR TO RELEASE OF THE CONTRACTOR'S RETAINAGE.
14. THE CONTRACTOR MUST ADJUST ALL VALVE BOXES, COVERS, METERS, MANHOLE RIMS, AND OTHER WATER, STORM, POWER, TELECOMMUNICATIONS AND SANITARY SEWER SERVICE APPURTENANCES TO FINAL GRADE. THE COST OF THESE ADJUSTMENTS SHALL BE INCLUDED IN THE BID.
15. THE PIPE LABELED RCP SHALL BE REINFORCED CONCRETE PIPE CLASS 3, UNLESS OTHERWISE NOTED
16. ALL RCP SHALL BE INSTALLED PER THE TYPICAL TRENCH DETAIL FOR REINFORCED CONCRETE PIPE ON THE DETAILS.
17. ALL STORM SEWER SHALL BE LAID FROM THE LOWEST POINT FOLLOWING THE RISING GRADE.
18. BACKFILL AND COMPACTION OF ALL TRENCHES WILL CONFORM TO THE RECOMMENDATION OF THE GEOTECHNICAL ENGINEER. TESTING OF THE FILL AND COMPACTION MUST BE PERFORMED BY THE TESTING LABORATORY ACCORDING TO THE SPECIFICATIONS WITH THE TEST REPORTS FORWARDED TO THE ENGINEER. ANY BACKFILL FAILING TO MEET COMPACTION REQUIREMENTS WILL BE REMOVED AND REWORKED UNTIL COMPACTION IS ACHIEVED, THIS WORK SHALL BE DONE AT THE CONTRACTOR'S EXPENSE.
19. WATER LINES SHALL HAVE A MINIMUM COVER OF 30 INCHES.
20. ALL BENDS AND FITTINGS SHALL BE MECHANICAL JOINT RESTRAINTS.
21. IF THE WATER OR SANITARY SEWER LINE CROSSES ANY UTILITY WITH LESS THAN 2 FEET OF VERTICAL SEPARATION BETWEEN THE WATER AND SANITARY SEWER, THE TRENCH SHALL BE BACKFILLED WITH CRUSHED STONE AND THE PIPE MATERIAL SHALL BE DUCTILE IRON.
22. ANY WORK ON PUBLIC RIGHT OF WAY WILL REQUIRE A TRAFFIC CONTROL PLAN IN ACCORDANCE WITH THE M.U.T.C.D. PREPARATION AND SUBMITTAL OF SAID PLAN TO THE APPROPRIATE AUTHORITY IS THE RESPONSIBILITY OF THE CONTRACTOR.
    22.1. THE CONTRACTOR SHALL PREPARE AND SUBMIT TO THE ENGINEER AND OWNER A TRAFFIC CONTROL PLAN IN ACCORDANCE WITH THE M.U.T.C.D. FOR APPROVAL. THE TRAFFIC CONTROL PLAN SHALL INCLUDE SIGNAGE, BARRICADES, PEDESTRIAN DETOURS, ETC.
23. THE COST OF ALL WORK ASSOCIATED WITH PROVIDING A COMPLETE PRODUCT AS SHOWN IN THE PLANS IS THE RESPONSIBILITY OF THE CONTRACTOR UNLESS STATED OTHERWISE.
24. THESE PLANS HAVE NOT BEEN APPROVED BY ALL OF THE REGULATORY AGENCIES AT THIS TIME. THE CONTRACTOR SHALL ANTICIPATE REVISIONS AND/OR DELAYS ASSOCIATED WITH OBTAINING PLAN APPROVAL. THE CONTRACTOR SHALL NOT RECEIVE ADDITIONAL COMPENSATION FOR SAID DELAYS.
25. ALL UTILITY BORES SHALL BE A MINIMUM OF 4 FT DEEP. ANY DAMAGE TO EXISTING STREETS OR DRIVES RESULTING FROM A UTILITY BORE SHALL BE REPAIRED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
26. THE CONTRACTOR WILL BE RESPONSIBLE FOR REPAIR TO PUBLIC AND PRIVATE ROADS CAUSED BY HIS ACTIVITIES. IT IS THE CONTRACTOR'S RESPONSIBILITY TO MEET WITH PRIVATE ENTITIES, STATE, CITY AND COUNTY OFFICIALS TO AGREE UPON AND RECORD THE CONDITIONS OF THE ROADS BEFORE CONSTRUCTION COMMENCES.
27. THE CONTRACTOR SHALL INCLUDE IN HIS BID ALL COSTS ASSOCIATED WITH SHORING/STABILIZING EXISTING UTILITIES DURING CONSTRUCTION OF THE PROPOSED IMPROVEMENTS.
28. THE CONTRACTOR SHALL PROVIDE THE OWNER AND ENGINEER WITH AN AS-BUILT SURVEY OF THE STORM SEWER SYSTEM. THE SURVEY SHALL INCLUDE ALL PIPES, MANHOLES, AND STORM SEWER STRUCTURES.THE SURVEY SHALL BE PERFORMED ON THE SAME DATUM AND COORDINATE SYSTEM OF THESE PLANS. THE SURVEY SHALL BE PREPARED IN ACCORDANCE WITH THE STANDARDS OF PRACTICE AND STAMPED BY A SURVEYOR LICENSED IN THE STATE OF ALABAMA, THE COST OF THIS SURVEY SHALL BE INCLUDED IN THE CONTRACTOR'S BID.
29. ALL STORM PIPE CONNECTIONS TO MANHOLES, INLETS, JUNCTION BOXES, ETC. SHALL BE MADE UTILIZING FLEXIBLE BOOTS. THESE BOOTS SHALL BE KOR-N-SEALL II 206 SERIES AS MANUFACTURED BY TRELLEBORG PIPE SEALS OR PSX DIRECT DRIVE AS MANUFACTURED BY PRESS-SEAL GASKET CORPORATION. THESE BOOTS SHALL BE ATTACHED TO THE PIPE WITH GASKETS AND SEALS, TO PROVIDE A WATER TIGHT CONNECTION BETWEEN THE PIPE AND STRUCTURES. ANY PIPE TO STRUCTURE CONNECTIONS NOT CONSTRUCTED USING FLEXIBLE BOOTS SHALL BE REMOVED AND CORRECTED AT THE CONTRACTOR'S EXPENSE. RIGID CONNECTIONS, OF ANY TYPE, SHALL NOT BE PERMITTED. TYLOX WT+CONNECTOR AS MANUFACTURED BY HAMILTON KENT MAY BE UTILIZED. ALL FLEXIBLE BOOTS/ CAST IN CONNECTORS SHALL MEET ASTM C923. ARCH PIPE SHALL BE CONNECTED TO THE STRUCTURES WITH WS SERIES WATERSTOP AS MANUFACTURED BY PRESS-SEAL GASKET CORPORATION OR PRE-APPROVED EQUIVALENT. THESE RINGS SHALL BE GROUTED IN WITH NON-SHRINKING PATCHING COMPOUND.
30. A DEFLECTION TEST SHALL BE REQUIRED FOR ALL FLEXIBLE STORM SEWER PIPING INSTALLED. THE DEFLECTION TEST SHALL BE PERFORMED TWICE USING A GO-NO-GO MANDREL. THE MANDREL SHALL BE PULLED THROUGH THE PIPE A MINIMUM OF 60 DAYS AFTER THE FINAL PLACEMENT OF BACKFILL. THE DEFLECTION OF THE PIPE SHALL NOT EXCEED 5.0 PERCENT OF THE AVERAGE INSIDE DIAMETER WHEN TESTED WITH A MANDREL SPECIFICALLY DESIGNED FOR THE TYPE AND SIZE OF PIPE INSTALLED. THE FINAL TEST SHALL BE PERFORMED 120 DAYS AFTER THE FINAL PLACEMENT OF BACKFILL IN ACCORDANCE WITH THE AFOREMENTIONED CRITERIA. THE CONTRACTOR SHALL SUBMIT THE TEST RESULTS TO THE ENGINEER WITHIN 14 DAYS OF THE TEST BEING PERFORMED. IF THE PIPE FAILS THE MANDREL TEST, THE PIPE SHALL BE REMOVED AND REPLACED AT THE CONTRACTOR'S EXPENSE. ALL COST ASSOCIATED WITH THE MANDREL TESTING SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. ALL PIPES SHALL BE INSTALLED PER THE PLANS, SPECIFICATIONS, GEOTECHNICAL REPORT AND MANUFACTURERS SPECIFICATIONS. IF CONFLICTS ARISE THE MORE STRINGENT SHALL APPLY.
31. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ASSURING ALL TRENCH EXCAVATIONS FOR THIS PROJECT ARE IN ACCORDANCE WITH OSHA REGULATIONS.
32. THE CONTRACTOR IS RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH PERMITS FOR THIS PROJECT.
33. THE COST TO RELOCATE ANY EVERGREEN UTILITIES FACILITIES DUE TO THIS PROJECT MUST BE PAID BY THE DEVELOPER OR PROPERTY OWNER.
34. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING THE EXISTENCE, HORIZONTAL AND VERTICAL LOCATIONS, OF ALL UTILITIES BOTH ABOVE AND BELOW GROUND AND OF NOTIFYING THE ENGINEER OF ANY VARIANCES FROM THE LOCATIONS SHOWN ON THE PLANS, BEFORE EXCAVATION BEGINS.
35. THE PLANS SHOW NUMEROUS UNDERGROUND UTILITIES WITHIN THE AREA OF THE PROPOSED IMPROVEMENTS. THERE ARE ELECTRICAL LINES, GAS LINES, IRRIGATION LINES, SANITARY LINES, TELECOMMUNICATION LINES AND WATER LINES THAT WILL HAVE TO BE REROUTED/RELOCATED TO CONSTRUCT THE IMPROVEMENTS SHOWN IN THE PLANS. THE CONTRACTOR WILL BE RESPONSIBLE FOR ALL COST ASSOCIATED WITH REROUTING, RELOCATING, SHORING, ETC. OF THIS LINES TO INSTRUCT THE IMPROVEMENTS SHOWN IN THE PLANS. THE CONTRACTOR WILL BE RESPONSIBLE FOR CONSTRUCTING THE IMPROVEMENTS SHOWN IN THE PLANS, WHILE MAINTAINING THE SERVICE OF THESE UNDERGROUND UTILITIES TO THE BUILDINGS WITHIN THE CAMPUS.
36. THIS WORK WILL BE PERFORMED WHILE THE BUILDINGS WITHIN IN THE CAMPUS ARE OCCUPIED. THE CONTRACTOR SHALL INSTALL CONSTRUCTION FENCING TO KEEP THE PUBLIC OUT OF THE CONSTRUCTION AREAS DURING ALL PHASES OF CONSTRUCTION. THIS FENCING SHALL NOT BE REMOVED UNTIL THE AREA HAS BEEN REGRADED, SODDED AND IS SAFE FOR PUBLIC USE. THE CONTRACTOR SHALL COORDINATE THE INSTALLATION AND REMOVING OF THE FENCE WITH THE ENGINEER AND REID STATE COMMUNITY COLLEGE FACILITY DIRECTOR.
37. THE PIPE LABELED REINFORCED CONCRETE PIPE (RCP) SHALL BE REINFORCED CONCRETE PIPE OR ADS HP-STORM.
38. ALL RCP SHALL BE INSTALLED PER THE TYPICAL TRENCH DETAIL FOR REINFORCED CONCRETE PIPE ON THE DETAIL SHEETS.
39. ALL ADS HP-STORM AND SCHEDULE 40 PVC PIPE SHALL BE INSTALLED PER THE TYPICAL TRENCH DETAIL FOR ADS PIPE AND SCHEDULE 40 PVC ON DETAIL SHEETS.
40. NO SOIL SHALL BE PLACED IN THE TRENCHES WITHIN THE PAVEMENT AREA. ALL UTILITY TRENCHES WITHIN THE ASPHALT OR CONCRETE PAVEMENT SHALL BE BACK FILLED WITH ALDOT NO. 57 STONE. THE TRENCH SHALL BE CAPPED WITH ALDOT 825B FOR THE THICKNESS OF THE STONE AND PAVEMENT SECTION SHOWN ON SHEET C-903. THE 825B SHALL BE LEFT IN PLACE AND OPEN TO TRAFFIC FOR A MINIMUM OF 21 DAYS PRIOR TO THE ASPHALT OR CONCRETE BEING PLACED.

## GRADING NOTES

1. THE CONTRACTOR SHALL GRADE THE SITE IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS PREPARED FOR THIS PROJECT.
2. ALL DEMOLITION AND CONSTRUCTION DEBRIS SHALL BE REMOVED FROM THE SITE AND PROPERLY DISPOSED OF AT THE CONTRACTOR'S EXPENSE.
3. ALL GRADING OPERATIONS TO BE MONITORED BY A QUALIFIED GEOTECHNICAL CONSULTANT AS CHOSEN AND PAID FOR BY THE OWNER.
4. ALL WORK REQUIRED TO COMPACT, MOISTEN, DRY, CONDITION, MODIFY, OR IMPROVE ANY PORTION OF THE SUBGRADE, AND/OR BUILDING PADS, AS DIRECTED BY THE PLANS, SPECIFICATIONS AND GEOTECHNICAL REPORT OR THE ENGINEER, IS PART OF THE LUMP SUM BID.
5. ALL WORK ASSOCIATED WITH TOPSOIL STRIPPING, INCLUDING, BUT NOT LIMITED TO: STRIPPING TO SPREAD, STRIPPING TO STOCKPILE, SPREADING FROM STOCKPILE, SEEDBED PREPARATION, ETC., AS DIRECTED BY THE PLANS AND SPECIFICATIONS OR THE ENGINEER IS PART OF THE LUMP SUM BID.
6. THE CONTRACTOR SHALL PROVIDE THE OWNER AND ENGINEER WITH AN AS-BUILT SURVEY OF ALL DISTURBED AREAS AT THE END OF THE PROJECT. THIS SURVEY SHALL BE PREPARED ON A 25-FOOT GRID WITHIN THE BUILDING FOOTPRINT AND 50-FOOT GRID OUTSIDE OF THE BUILDING. ALL HIGH SPOTS AND LOW SPOTS SHALL ALSO BE INCLUDED IN THE SURVEY. THE SURVEY SHALL BE PERFORMED ON THE SAME DATUM AND COORDINATE SYSTEM AS THESE PLANS. THE SURVEY SHALL BE PREPARED IN ACCORDANCE WITH THE STANDARDS OF PRACTICE OF THE STATE OF ALABAMA AND STAMPED BY A SURVEYOR LICENSED IN THE STATE OF ALABAMA. THE COST OF THIS SURVEY SHALL BE INCLUDED IN THE CONTRACTOR'S BID.
7. THE CONTRACTOR SHALL CONSTRUCT THE SLOPES WITH THE EQUIPMENT TRACKS TRAVERSING UP AND DOWN THE SLOPE AS SHOWN IN THE DETAILS.
8. FILL MATERIAL USED ON-SITE SHALL BE CLEAN, NON-SATURATED, NON-ORGANIC SOIL AS APPROVED BY THE GEOTECHNICAL CONSULTANT.

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DESIGNER: AG
DRAWN BY: AG & BS

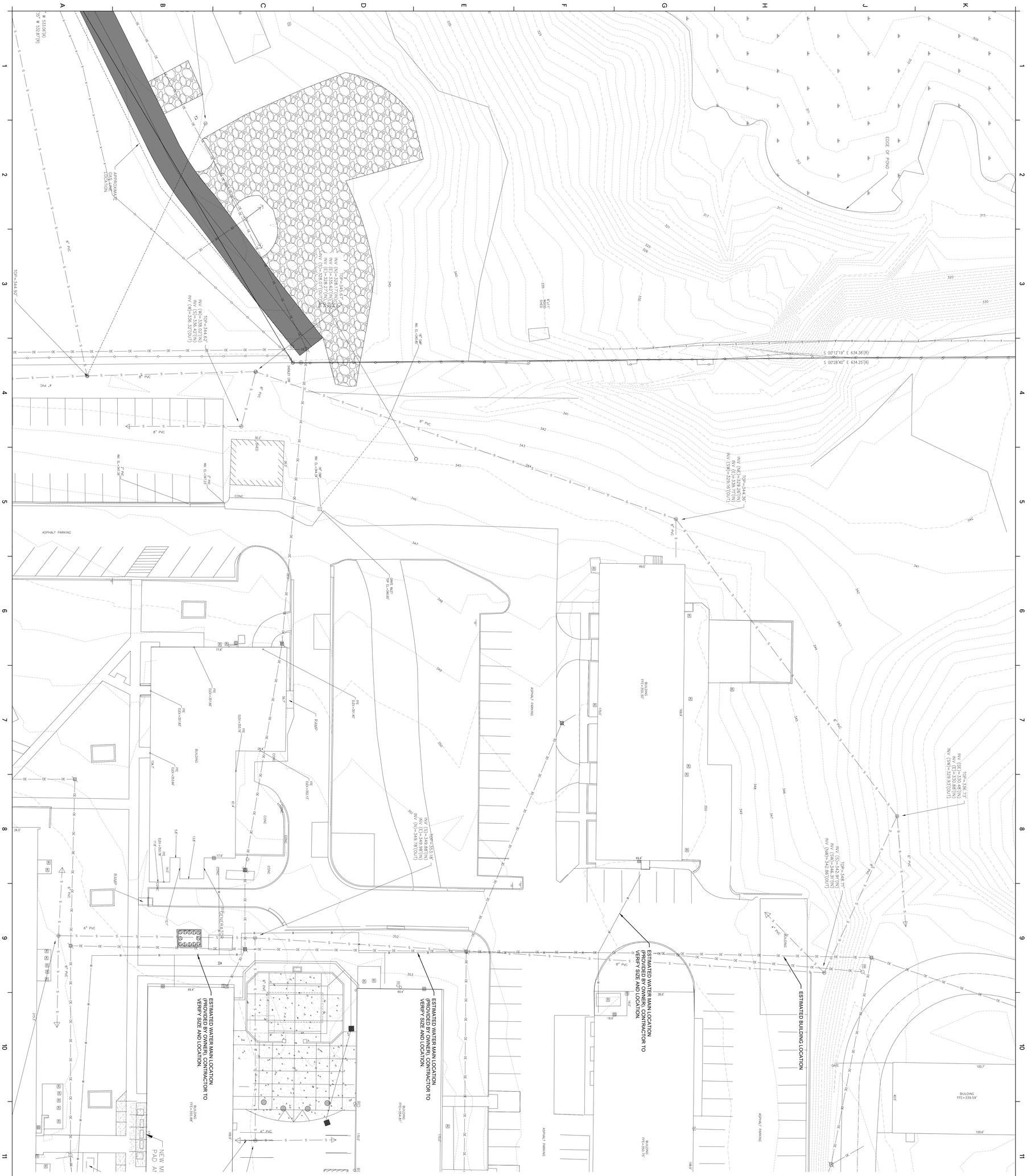
REID STATE COMMUNITY COLLEGE
WELDING AND INDUSTRIAL RENOVATIONS
EVERGREEN, ALABAMA

GMC Project #: CBHM260016

ALABAMA LICENSED PROFESSIONAL ENGINEER
33812
JUSTIN PABLO GARCIA
05.27.26

PROJECT NOTES

C-001




**EXISTING CONDITIONS**

# C-002

REID STATE COMMUNITY COLLEGE
WELDING AND INDUSTRIAL RENOVATIONS
EVERGREEN, ALABAMA

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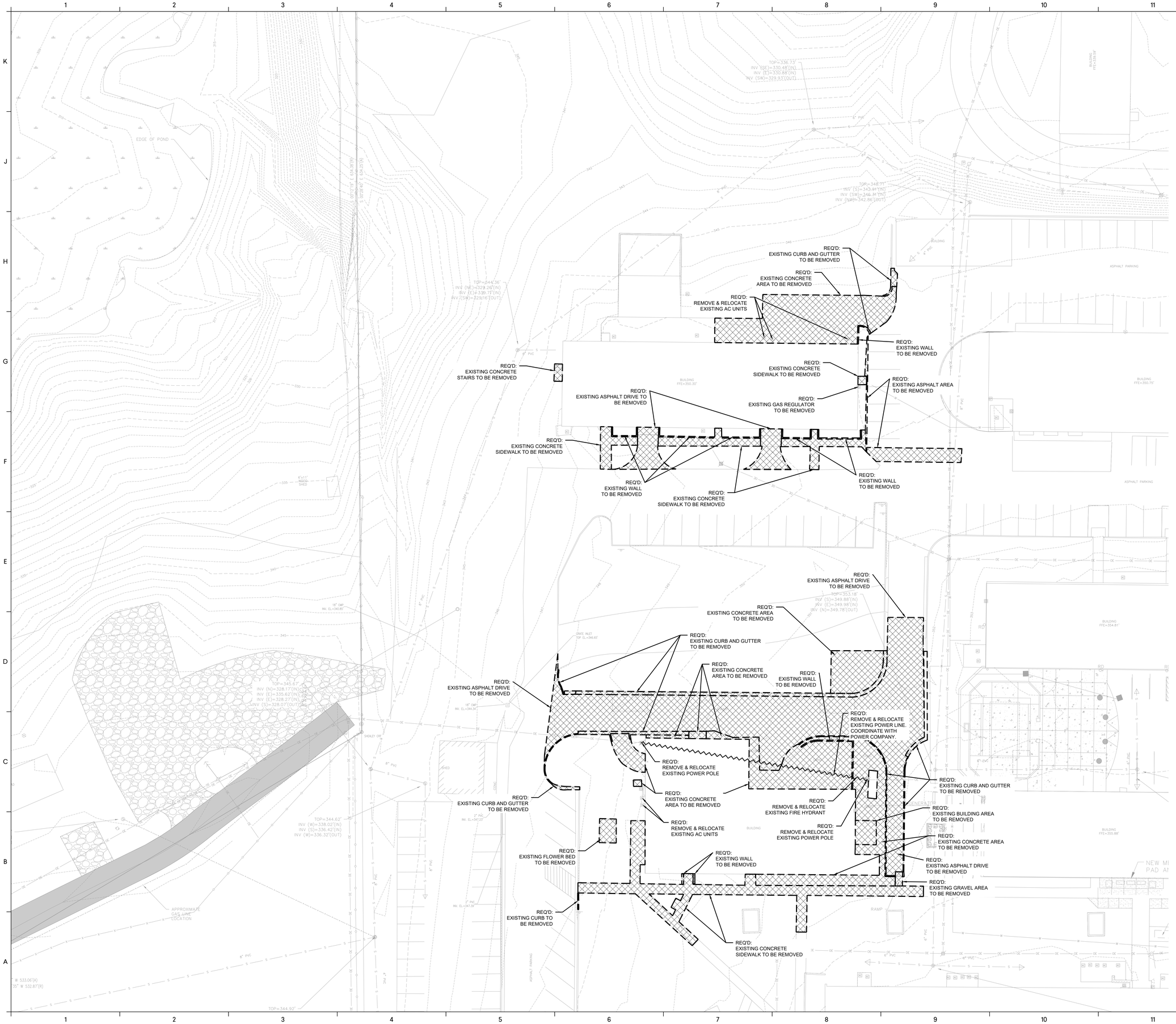


**LEGEND**

| | |
|---|---|
| P.O.C. | POINT OF COMMENCEMENT |
| P.O.B. | POINT OF BEGINNING |
| (A) | ACTUAL |
| (R) | RECORD DEED |
| (P) | PLAT OF RECORD |
| (C) | COMPUTED |
| OTIF | OPEN TOP IRON PIPE FOUND |
| PIF | IRON PIN FOUND |
| CTIF | CRIMP TOP IRON PIPE FOUND |
| CRF | CAPPED REBAR FOUND |
| RBF | REBAR FOUND |
| CRS | 5/8" CAPPED REBAR SET STAMPED CA#1196 |
| RCRS | 5/8" REFERENCE CAPPED REBAR SET STAMPED CA#1196 |
| TBM | TEMPORARY BENCHMARK |
| CMF | CONCRETE MONUMENT FOUND |
| CMS | CONCRETE MONUMENT SET |
| RCRS | 5/8" CAPPED REBAR WITH REFERENCE CAP SET |
| LS# | LICENSED PROFESSIONAL SURVEYOR'S NUMBER |
| CA# | CERTIFICATE OF AUTHORIZATION NUMBER |
| (DIST) | DISTURBED |
| (REFT) | REFERENCE CORNER SET ON LINE |
| (UNR) | UNREADABLE/ILLEGIBLE |
| INST. # | INSTRUMENT NUMBER |
| SECT. | SECTION |
| T– | TOWNSHIP |
| R– | RANGE |
| | POWER POLE |
| | GUY WIRE |
| R/W | RIGHT-OF-WAY |
| R.O.W. | RIGHT-OF-WAY |
| | FIRE HYDRANT |
| | SIGN |
| TP | TELEPHONE PEDESTAL |
| EM | ELECTRIC METER BOX |
| AC | AIR CONDITIONER |
| JB | JUNCTION BOX (VAULT) |
| EL./ELEV. | ELEVATION |
| INV | INVERT |
| FFE | FINISHED FLOOR ELEVATION |
| TB | TELEPHONE BOX (VAULT) |
| WM | WATER METER |
| SSV | SANITARY SEWER VALVE |
| WV | WATER VALVE |
| GV | GAS VALVE |
| TR | TRANSFORMER BOX |
| LP | LIGHT POLE |
| CA | CABLE TV BOX |
| EB | ELECTRIC BOX |
| EP | ELECTRIC PANEL |
| ICV | IRRIGATION CONTROL VALVE |
| SSMH | SANITARY SEWER MANHOLE |
| SD | STORM DRAIN MANHOLE |
| TH | TELEPHONE MANHOLE |
| SC | SEWER CLEANOUT |
| SGP | SEWER GRINDER PUMP |
| GT | GREASE TRAP |
| FP | FLAG POLE |
| GSM | GAS LINE SIGN MARKER |
| GR | GAS REGULATOR |
| TSM | TELEPHONE SIGN MARKER |
| WM | WATERLINE MARKER |
| FM | FIBER OPTIC LINE MARKER |
| (EX.) | EXCEPTION |
| — FO — | UNDERGROUND FIBER OPTIC LINE |
| — OE — | OVERHEAD ELECTRIC |
| — BE — | BURIED ELECTRIC LINE |
| — UT — | UNDERGROUND TELEPHONE LINE |
| — S — | UNDERGROUND SEWER LINE |
| — W — | UNDERGROUND WATERLINE |
| — G — | UNDERGROUND GAS LINE |
| — TV — | UNDERGROUND TELEVISION |
| 95 x ## | SPOT GRADE ELEVATIONS |
| M.B./D.B./R.B. | MAP BOOK/ DEED BOOK/ REAL BOOK |
| CMP | CORRUGATED METAL PIPE |
| RCP | REINFORCED CONCRETE PIPE |
| CPP | CORRUGATED PLASTIC PIPE |
| (M) | DENOTES STATEMENT BY LAND SURVEYOR |
| | LAND HOOK |
| | LINE SHOWN NOT TO SCALE |

ASPHALT · WETLANDS
CONCRETE · DIRT
GRAVEL
EXISTING TO BE REMOVED
UNDERGROUND TELEVISION

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REID STATE COMMUNITY COLLEGE
WELDING AND INDUSTRIAL RENOVATIONS
EVERGREEN, ALABAMA

GMC Project #: CBHM260016

STATE OF ALABAMA
JUAN PABLO GUTIERREZ
No. 33812
PROFESSIONAL
ENGINEER
05.27.26

**DEMOLITION PLAN**

C-003

FUTURE PARKING

FUTURE ACCESS

FUTURE PARKING

ADA ACCESSIBLE LANDING WITH DETECTABLE WARNING SURFACE AND RAMP

RE:D VERTICAL CURB

RE:D HEAVY DUTY CONCRETE PAVEMENT (TYP.)

TRANSITION TO RIBBON CURB

RE:D LANDSCAPE PLANS)

DRIVE GATE (SEE LANDSCAPE PLANS)

R10.00'

R20.00'

R20.00'

WALK GATE (SEE LANDSCAPE PLANS)

RE:D

5.00'

6.00'

4.00'

HEAVY DUTY CONCRETE PAVEMENT (TYP.)

RE:D

BOLLARDS (SEE ARCH. PLANS)

RE:D

BUILDING 300
FFE=353.66'

20.00'

5.00'

VERTICAL CURB

RE:D

RE:D

BOLLARDS (SEE ARCH. PLANS)

RE:D

CONCRETE SIDEWALK (TYP.)

WALK GATE (SEE LANDSCAPE PLANS)

RE:D

R20.00'

R20.00'

10.00'

R20.00'

RE:D

VERTICAL CURB

RE:D

FENCE (SEE LANDSCAPE PLANS)

FENCE (SEE LANDSCAPE PLANS)

RE:D

DRIVE GATE (SEE LANDSCAPE PLANS)

RE:D

BOLLARDS (SEE ARCH. PLANS)

RE:D

6.00'

PRESSURE WASH AND CLEAN EX. CONCRETE PAD TO REMAIN

RE:D

BUILDING 700
FFE=350.30'

6.00'

RE:D

STANDARD DUTY CONCRETE PAVEMENT (TYP.)

5.00'

R10.00'

RE:D

CURB & GUTTER

RE:D

HEAVY DUTY ASPHALT PAVEMENT (TYP.)

8.00'

BUILDING 200

NEW MECHANICAL PAD AND FENCE

BUILDING 400

LEGEND

PROPOSED STANDARD DUTY CONCRETE PAVEMENT

PROPOSED HEAVY DUTY CONCRETE PAVEMENT

PROPOSED HEAVY DUTY ASPHALT PAVEMENT

Scale: 1" = 20'

0 20' 40'

N

**SITE PLAN**

C-101

05.27.26

REID STATE COMMUNITY COLLEGE
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EVERGREEN, ALABAMA

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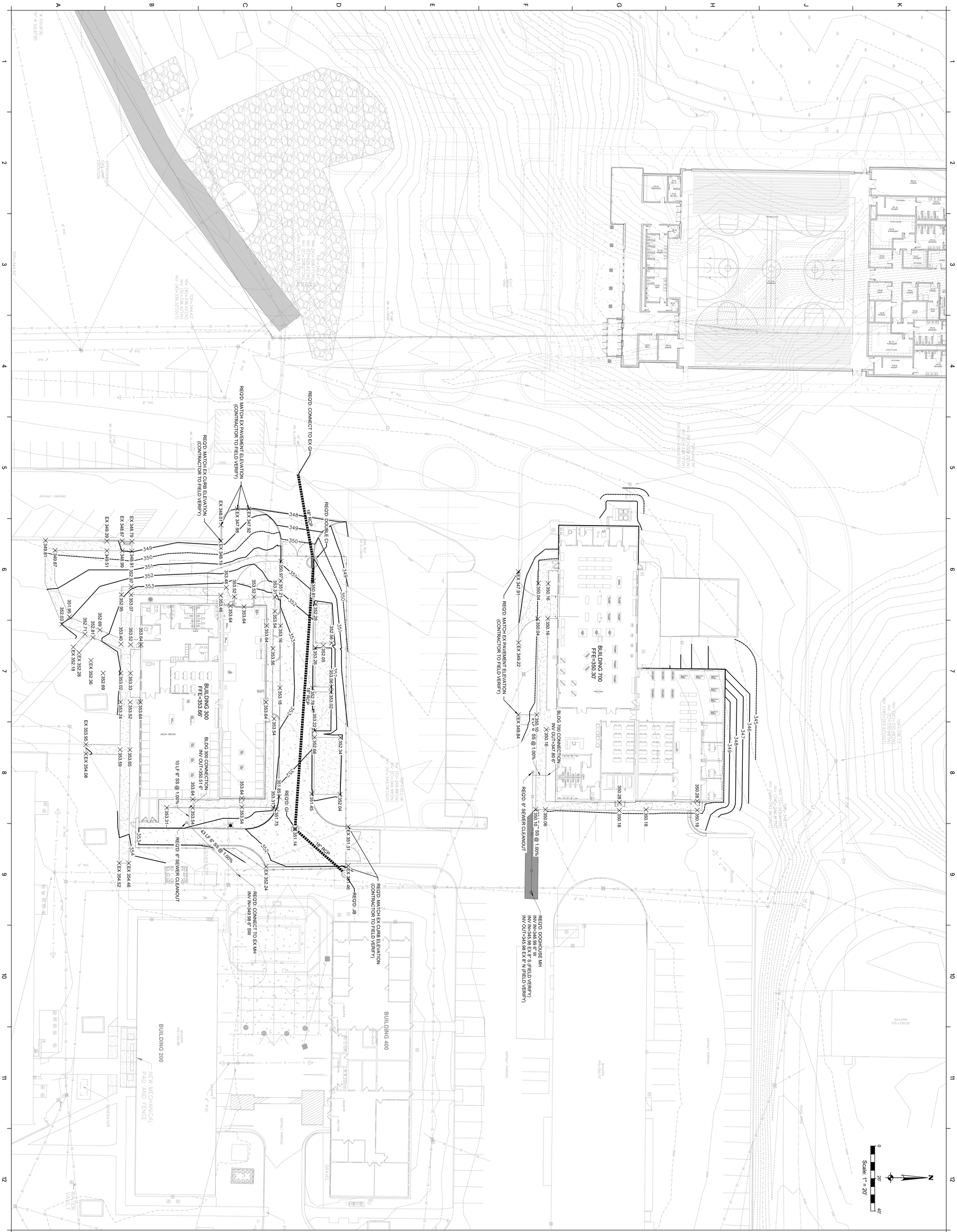


**GRADING PLAN**

C-201

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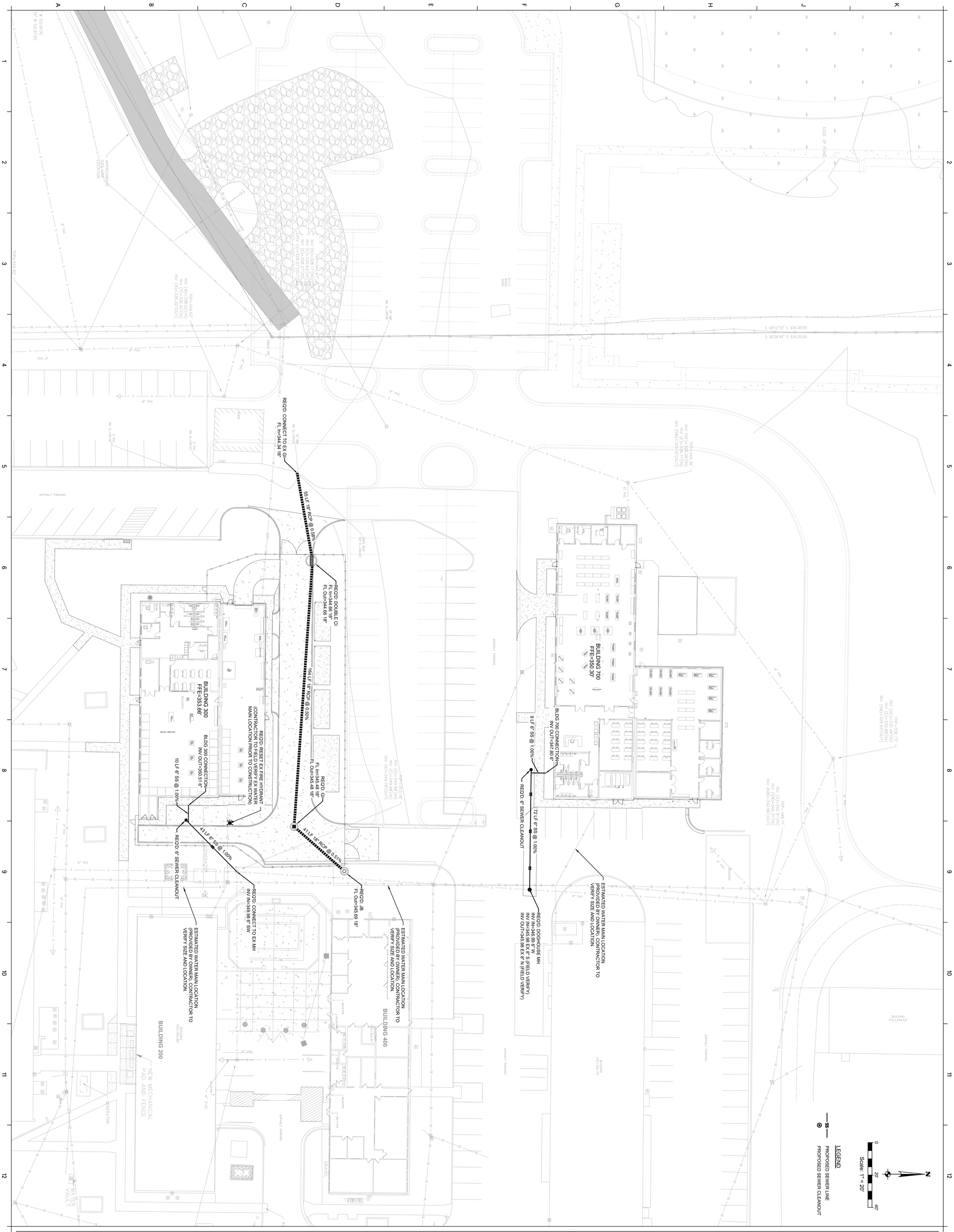


**UTILITY PLAN**

C-301

REID STATE COMMUNITY COLLEGE
WELDING AND INDUSTRIAL RENOVATIONS
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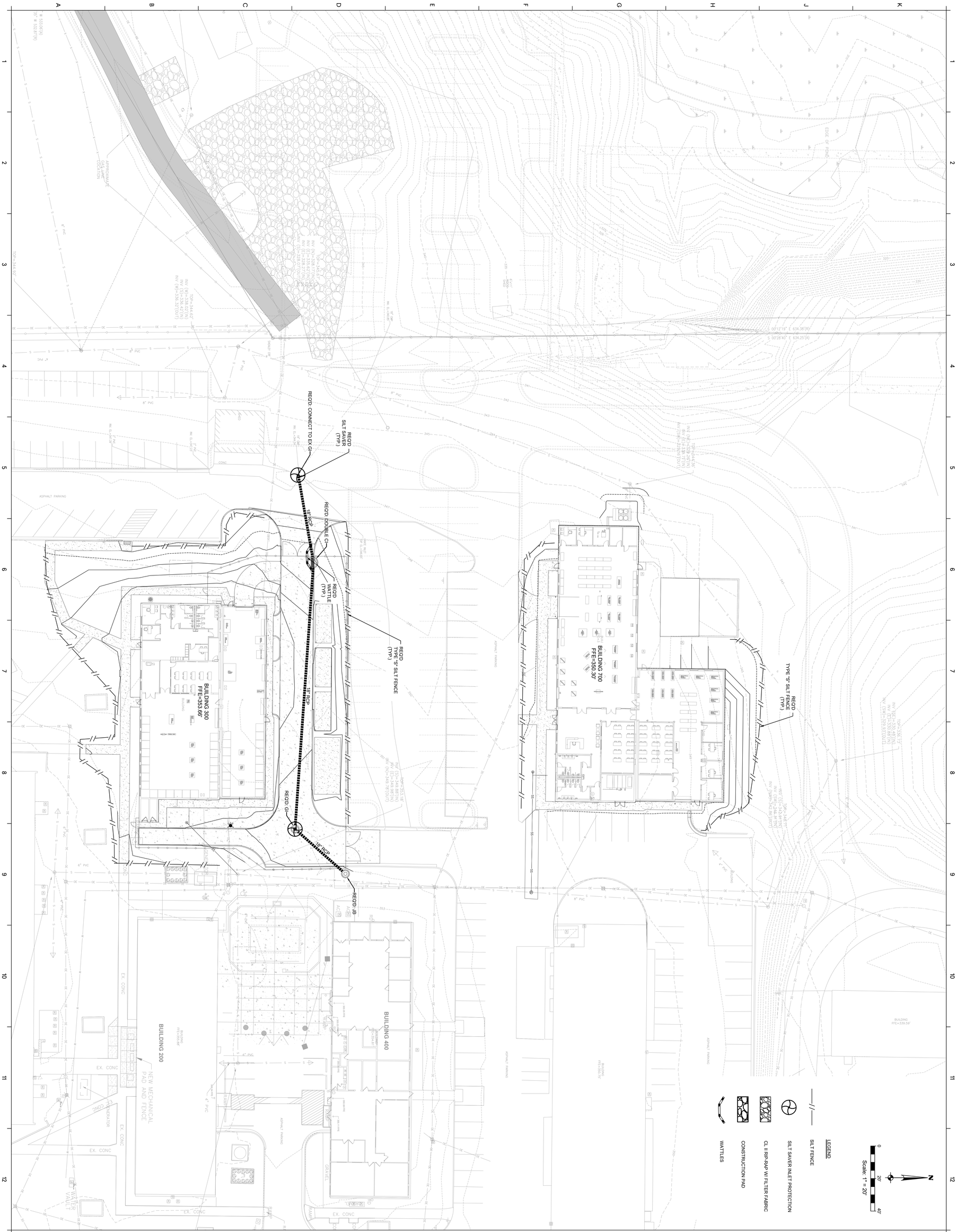


**EROSION CONTROL PLAN**

C-601

REID STATE COMMUNITY COLLEGE
WELDING AND INDUSTRIAL RENOVATIONS
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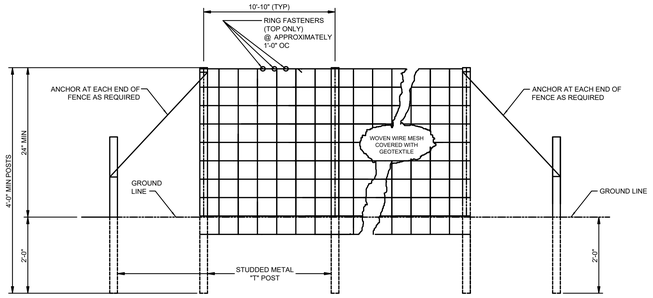
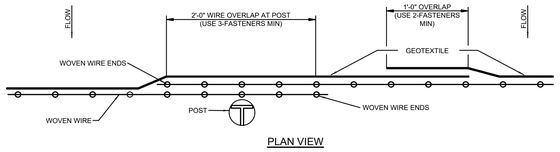
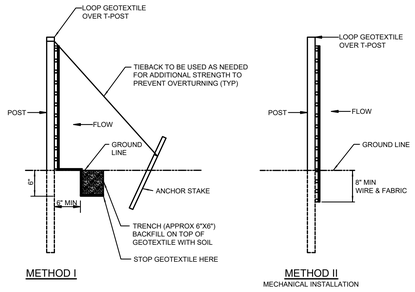



ELEVATION VIEW




PLAN VIEW

REQUIRED LAPPING




SIDE VIEW

NOTES:
1. METHOD II FENCE INSTALLATION ALSO INCLUDE ANCHORS AND TIEBACKS AS REQUIRED.
2. SILT FENCE SHALL BE USED IN AREAS WHERE FLOW IS LOW TO MODERATE OR AS DIRECTED BY THE ENGINEER.
3. SILT FENCES ARE TEMPORARY SEDIMENT CONTROL ITEMS THAT SHALL BE ERECTED DOWN GRADE OF ERODIBLE AREAS SUCH AS NEWLY GRADED FILL SLOPES AND ADJACENT TO STREAMS AND CHANNELS.
4. SILT FENCE SHOULD BE PLACED WELL INSIDE RIGHT-OF-WAY AND ALONG EDGE OF CLEARING LIMITS. THIS WILL ALLOW ROOM FOR ADDITIONAL BEST MANAGEMENT PRACTICES SUCH AS VEGETATED BUFFERS.
5. WHEREVER POSSIBLE SILT FENCES SHALL BE CONSTRUCTED ACROSS A LEVEL AREA IN THE SHAPE OF A SMILE. THIS AIDS IN PONDING OF RUNOFF AND FACILITATES SEDIMENTATION.
6. THE CONTRACTOR MAY ELECT TO USE EITHER INSTALLATION METHOD I OR METHOD II.
7. METHOD II INSTALLATION SHALL BE ACCOMPLISHED BY USING AN IMPLEMENT THAT IS MANUFACTURED FOR THE APPLICATION AND PROVIDES A CONFIGURATION MEETING THE REQUIREMENTS OF THE DETAIL.
8. SEE ALDOT LIST II-3 FOR APPROVED SILT FENCE GEOTEXTILES.

## DETAILS OF SILT FENCE INSTALLATION

## GENERAL NOTES

1. STRAW BALES SHOULD BE STAKED IN PLACE, AND A LINER, OF AT LEAST 10-MIL THICKNESS, SHOULD BE USED IN DOUBLE OR TRIPLE LAYERS.

2. CONCRETE WASH WATER SHALL NOT BE ALLOWED TO FLOW TO STREAMS, DITCHES, STORM DRAINS, OR ANY OTHER WATER CONVEYANCE, AND WASHOUT PITS SHALL BE SITUATED A MINIMUM OF FIFTY (50) FEET FROM THEM.

3. A HIGHLY VISIBLE SIGN THAT READS "CONCRETE WASHOUT AREA" SHALL BE ERECTED ADJACENT TO THE WASHOUT PIT.

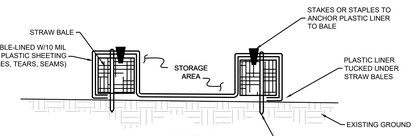
4. ONCE 75% OF THE ORIGINAL VOLUME OF THE WASHOUT PIT IS FILLED OR IF THE LINER IS TORN, THE MATERIAL MUST BE REMOVED AND PROPERLY DISPOSED OF ONCE IT IS COMPLETELY HARDENED. ONCE THE HARDENED CONCRETE IS REMOVED, THE LINER MUST BE REPLACED (IF TORN). A NEW PIT MUST BE CONSTRUCTED IF THE ORIGINAL STRUCTURE IS NO LONGER SUITABLE.

5. DO NOT DISCHARGE LIQUIDS TO WATERWAYS, STORM DRAINS, OR DIRECTLY ONTO GROUND.

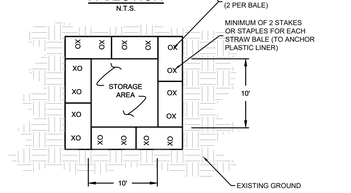
6. REMOVE LIQUIDS OR COVER THE STRUCTURES BEFORE PREDICTED STORMS TO PREVENT OVERFLOWS.

7. ONCE THE WASHOUT PIT IS NO LONGER NEEDED, ENSURE ALL WASHOUT MATERIAL HAS COMPLETELY HARDENED. THEN REMOVE AND PROPERLY DISPOSE OF ALL MATERIALS. IF STRAW BALES WERE USED, THEY CAN BE SPREAD AS MULCH.

8. PREFABRICATED CONTAINERS SPECIFICALLY DESIGNED FOR CONCRETE WASHOUT COLLECTION MAY BE USED SUBJECT TO PRIOR APPROVAL BY THE ENGINEER. FOLLOW THE MANUFACTURER'S SUGGESTIONS FOR INSTALLATION, MAINTENANCE, AND REMOVAL PROCEDURES.

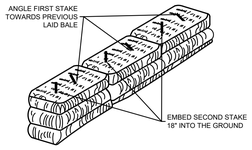



X-SECTION
N.T.S.



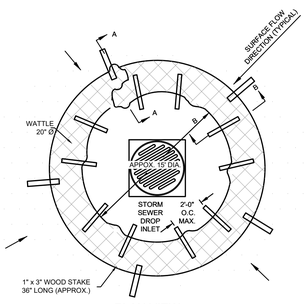

PLAN VIEW
N.T.S.

NOTES:
1) ANCHOR AND EMBED INTO SOIL TO PREVENT WASHOUT OR WATER WORKING UNDER BARRIER.
2) REPAIR OR REPLACEMENT MUST BE MADE PROMPTLY AS NEEDED.

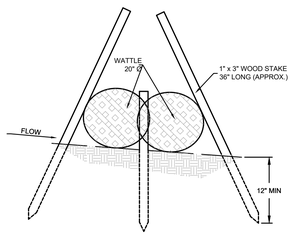



ANCHORING DETAIL
N.T.S.

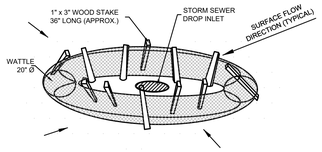
## ABOVE-GRADE CONCRETE WASHOUT PIT
N.T.S.

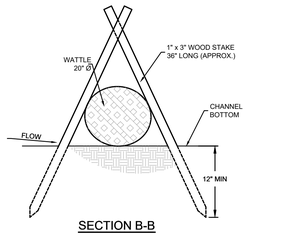



PLAN VIEW




SECTION A-A

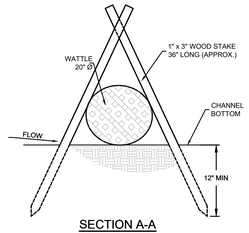



SECTION B-B

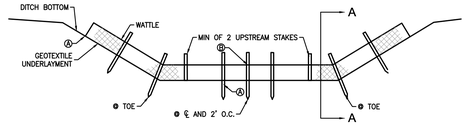
NOTE:
COST OF WOOD STAKES OR EQUAL SHALL BE INCLUDED IN COST OF WATTLES

## DROP INLET PROTECTION




SECTION A-A

NOTES:
1. ANCHORING STAKES SHALL BE SIZED, SPACED, AND BE OF A MATERIEAL THAT EFFECTIVELY SECURES THE WATTLE. STAKE SPACING SHALL BE A MAXIMUM OF TWO FEET.
2. OVERLAP ENDS OF WATTLES PER MANUFACTURERS. RECOMMENDATIONS (1" MIN, 3" MAX).
3. SEE ALDOT LIST II-24 FOR APPROVED WATTLES.
4. SILT FENCE OR SAND BAGS MAY ALSO BE USED FOR THIS APPLICATION. HAY BALES NOT ACCEPTABLE DURING THIS STAGE.




WATTLE DITCH CHECK

NOTE: END POINTS Ⓐ MUST BE HIGHER THAN FLOWLINE POINT Ⓑ

NOTES:
1. MINIMUM RECOMENDED PLACEMENT INTERVAL BETWEEN WATTLE DITCH CHECK IS 100 FEET UNLESS SHOWN OTHERWISE ON THE PLANS OR APPROVED BY THE ENGINEER. SEE SPACING GUIDANCE ON PLAN
2. ANCHORING STAKES SHALL BE SIZED, SPACED, DRIVEN, AND BE OF A MATERIAL THAT EFFECTIVELY SECURES THE CHECK. SPIKE SPACING SHALL BE A MAXIMUM OF TWO FEET.
3. WATTLES SHOULD NOT BE USED IN HARD BOTTOMS CHANNELS.
4. STAPLES SPACED 18 INCHES APART, ALONG THE CHANNEL EDGES AND DOWN THE CENTER OF THE CHANNEL. STAPLES SPACED 10 INCHES APART, ACROSS THE UPSTREAM AND DOWNSTREAM EDGES.

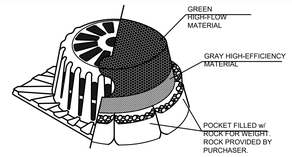
## WATTLE DITCH CHECK SELECTION GUIDELINES

WATTLE DITCH CHECKS ARE APPROPRIATE FOR VELOCITY REDUCTION AND CONTROL OF SEDIMENT TRANSPORT UNDER LOW TO MEDIUM FLOW CONDITIONS NOT EXCEEDING 1.0 CU FT/SEC.

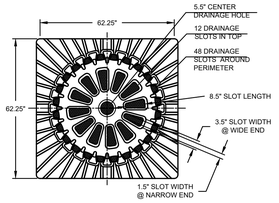
NOTE:
COST OF WOOD STAKES OR EQUAL SHALL BE INCLUDED IN COST OF WATTLES

## WATTLE DITCH CHECK

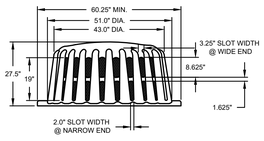
## INLET WATTLE PROTECTION DETAIL




ISOMETRIC VIEW
SHOWN WITH ROADWAY PROJECTS FILTER HAT




PLAN VIEW




ELEVATION VIEW

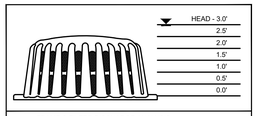
REPLACEMENT FILTERS: MODEL # S-240

FILTER OPTIONS
FILTER HAT IS AVAILABLE IN THREE OPTIONS:
1) ALL HIGH-FLOW MATERIAL
2) ALL HIGH-EFFICIENCY MATERIAL
3) HIGH-FLOW MATERIAL ON TOP HALF OF HAT, HIGH-EFFICIENCY MATERIAL ON BOTTOM HALF (THIS FILTER COVER IS RECOMMENDED FOR ALL ROADWAY PROJECTS.)
IT IS THE PURCHASERS RESPONSIBILITY TO PURCHASE APPROPRIATE FILTER HAT. PURCHASER SHALL PROVIDE ROCK FOR FILTER POCKETS.

FILTER HAT INSTALLATION
FILTER HAT SLIDES DIRECTLY OVER FILTER FRAME. TO KEEP FILTER FRAME IN PLACE OVER STORM STRUCTURE, ROCK POCKETS ARE SEWN DIRECTLY INTO FILTER HAT MATERIAL. EVERY FILTER HAT COMES IN ONE PIECE FOR EASY INSTALLATION.

MAINTENANCE
ALL TEMPORARY EROSION, SEDIMENTATION, & POLLUTION CONTROL PRACTICES SHOULD BE INSPECTED DAILY. CONTRACTOR SHALL REMOVE SEDIMENT AND DISPOSE OF IN A PROPER MANNER. INSPECT S-200A DAILY FOR CUTS, ABRASIONS, AND PROPER INSTALLATION. REPLACE OR REPOSITION AS NECESSARY.

SPECIFICATIONS
FILTER FABRIC SILT-SAVER HAT SHALL BE BASED ON DESIGN PROFESSIONAL'S SPECIFICATIONS.




FRAME & FILTER DISCHARGE ANALYSIS

| HEAD (FT) | EQUATION USED | OPENING AREA (SF) | FRAME FLOW (CFS) | FILTER AREA (SF) | FILTERED FLOW (CFS) |
|---|---|---|---|---|---|
| 0.5 | O | 2.1 | 7 | 6 | 2 |
| 1.0 | O | 3.9 | 19 | 12 | 3 |
| 1.5 | O | 7.0 | 41 | 18 | 5 |
| 2.0 | O | 8.0 | 54 | 24 | 7 |
| 2.5 | O | 9.2 | 70 | 30 | 9 |
| 3.0 | O | 9.2 | 77 | — | 77 |

DUE TO NARROW SLOT, A TRANSITION WILL OCCUR BETWEEN WEIR AND ORIFICE CONDITIONS. ORIFICE FLOW WILL PROVIDE A MORE CONSERVATIVE ESTIMATE OF FLOW, THEREFORE THE LESSER OF THE ORIFICE AND WEIR FLOWS WILL BE USED FOR EACH STAGE CALCULATION.

FILTER MATERIAL ALLOWS 129 gpm/SF OR 0.29cfs/SF
ORIFICE EQUATION (O) = $Q=0.6A(2gh)^{0.5}$
P = FEET PERIMETER
h = HEAD IN FEET
Q = CAPACITY IN cfs
A = FREE OPEN AREA OF FRAME
g = 32.2 FEET-PER-SECOND/SECOND

SILT-SAVER
Sediment Control Products

SQUARE FRAME & FILTER ASSEMBLY
Model # S-200A

| |
|---|
| FRAME MATERIAL: BLACK 0.25" HMWPE |
| FILTER FABRIC MATERIAL: REFER TO SPEC |
| SCALE: NOT TO SCALE |
| LAST UPDATED: APRIL 2010 |

SILT-SAVER, INC. 1094 CULPEPPER DRIVE, CONYERS, GA 30094 PHONE: (770) 388-7818 FAX: (770) 388-7640 TOLL FREE: 1-888-382-SILT (7458) www.siltsaver.com

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| ISSUE | DATE |
|---|---|
| IFB SET | 05/27/2026 |

ENGINEER: JG
DESIGNER: AG
DRAWN BY: AG & BS

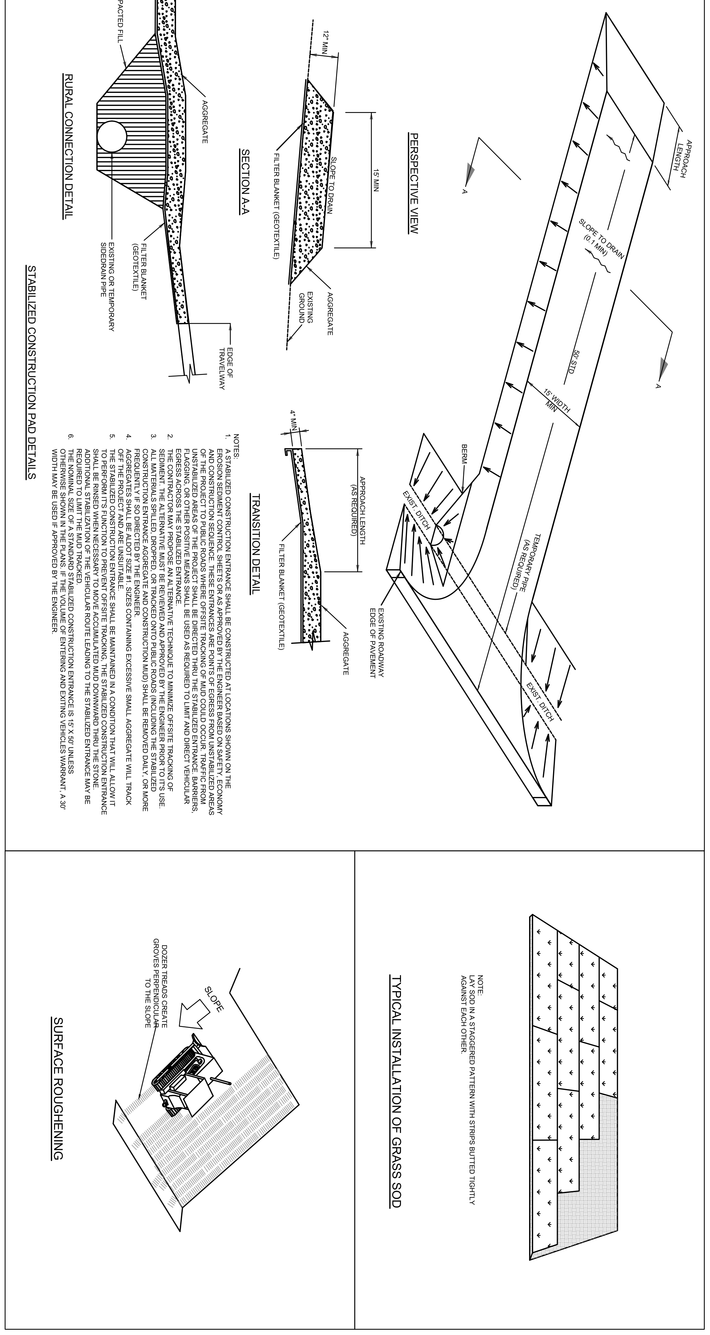
REID STATE COMMUNITY COLLEGE
WELDING AND INDUSTRIAL RENOVATIONS
EVERGREEN, ALABAMA

GMC Project #: CBHM260016

STATE OF ALABAMA
JUAN PABLO GUTIERREZ
No. 33812
PROFESSIONAL ENGINEER
05.27.26

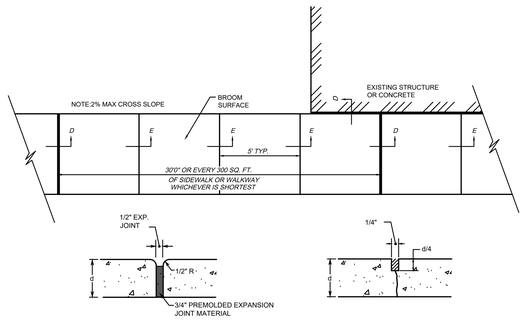
EROSION CONTROL DETAILS

C-901




NOTES:

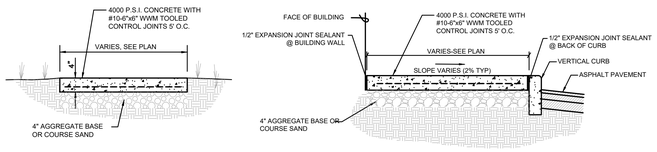
1. A STABILIZED CONSTRUCTION ENTRANCE SHALL BE CONSTRUCTED AT LOCATIONS SHOWN ON THE EROSION SEDIMENT CONTROL SHEET OR AS APPROVED BY THE ENGINEER BASED ON SAFETY, ECONOMY AND CONSTRUCTION SEQUENCE. THESE ENTRANCES ARE POINTS OF EGRESS FROM UNSTABILIZED AREAS OF THE PROJECT TO PUBLIC ROADS. THEY ARE NOT INTENDED TO BE USED BY EMPLOYEE PRIVATE VEHICLES. ALL TRAFFIC TO AND FROM UNSTABILIZED AREAS OF THE PROJECT SHALL BE DIRECTED THRU THE STABILIZED ENTRANCE. BARRIERS SHALL BE PLACED AS REQUIRED TO PREVENT VEHICLES FROM BYPASSING THE STABILIZED ENTRANCE. FENCING SHALL BE USED AS REQUIRED TO LIMIT AND DIRECT VEHICULAR EGRESS ACROSS THE STABILIZED ENTRANCE.
2. SEDIMENT THAT IS TRANSPORTED ONTO A PUBLIC ROAD SURFACE SHALL BE REMOVED AND RETURNED TO THE CONSTRUCTION SITE AS DIRECTED BY THE ENGINEER PRIOR TO THE END OF THE WORK DAY AND IN ANY CASE BEFORE A RAIN EVENT. THE PUBLIC ROAD SHALL BE CLEANED MORE FREQUENTLY IF SO DIRECTED BY THE ENGINEER.
3. ALL MATERIALS SPILLED, DROPPED, OR TRACKED ONTO PUBLIC ROADS INCLUDING THE STABILIZED CONSTRUCTION ENTRANCE SHALL BE REMOVED IMMEDIATELY. WASHING OF TRUCKS ON THE ROADWAY AGGREGATE SIZES CONTAINING EXCESSIVE SMALL AGGREGATE WILL TRACK OFF THE PROJECT AND ARE UNSUITABLE.
4. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC ROADWAY OR ONTO THE STABILIZED CONSTRUCTION ENTRANCE SHALL BE REMOVED IMMEDIATELY. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH AGGREGATE WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE




SECTION D
EXPANSION JOINT

SECTION E
SAWED CONTROL JOINT DETAIL

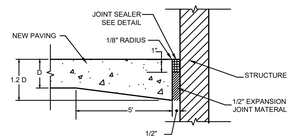
SIDEWALK JOINT LAYOUT DETAIL
N.T.S.



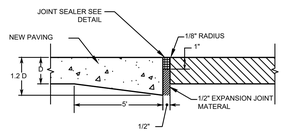

SIDEWALK DETAIL W/O CURB
N.T.S.

SIDEWALK DETAIL W/ CURB
N.T.S.

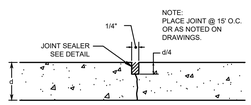
CONCRETE SIDEWALK DETAIL
N.T.S.



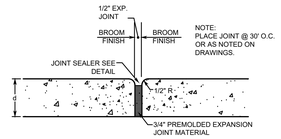

EDGE OF STRUCTURE DETAIL
N.T.S.




CONCRETE/ASPHALT INTERFACE DETAIL
N.T.S.




SAWED CONTROL JOINT DETAIL
N.T.S.




EXPANSION JOINT DETAIL
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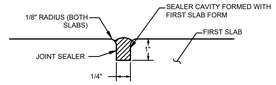
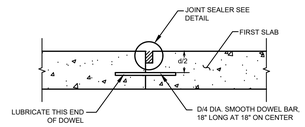
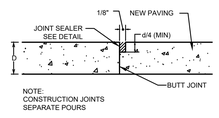


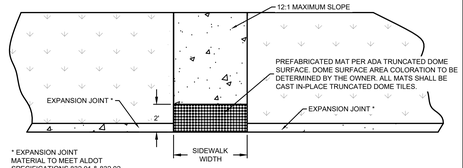

JOINT SEALER DETAIL
N.T.S.



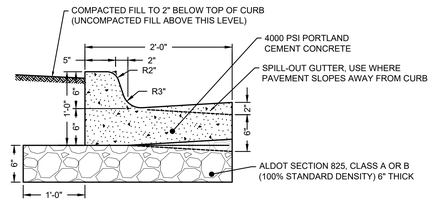

LONGITUDINAL CONSTRUCTION JOINT (AND AT END OF A DAY'S WORK)
N.T.S.




CONSTRUCTION JOINT DETAIL
N.T.S.

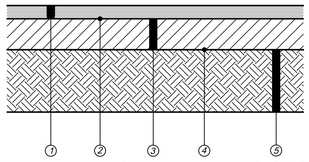



HANDICAP RAMP
NTS




NOTE:
1. ALL PORTLAND CEMENT CONCRETE PAVEMENTS SHOULD CONTAIN 4 TO 6 PERCENT ENTRAINED AIR ASSUMING THE MIX WILL CONTAIN ¾ -INCH TO 1-INCH NOMINAL MAXIMUM SIZE AGGREGATE.
2. MINIMUM 28-DAY CONCRETE COMPRESSIVE STRENGTH SHOULD BE 4,000 PSI.
3. MAXIMUM 4" SLUMP FOR NON-SLIP FORMED AND 2" SLUMP WHEN SLIP FORMED.
4. SUBGRADE COMPACTED TO 98% MODIFIED PROCTOR MAXIMUM DRY DENSITY (SEE GEOTECHNICAL REPORT)

24" CURB & GUTTER DETAIL
N.T.S.




HEAVY DUTY ASPHALT PAVING SECTION

N.T.S.

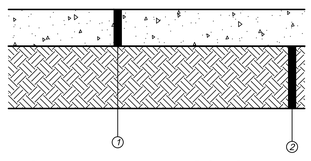
(7) 1.5" ALDOT SECTION 424A SUPERPAVE BITUMINOUS WEARING SURFACE, 1/2" MAXIMUM AGGREGATE SIZE MIX

(2) ALDOT SECTION 405 BITUMINOUS TACK COAT

(3) 4.5" ALDOT SECTION 424B SUPERPAVE BITUMINOUS BINDER LAYER, 3/4" MAXIMUM AGGREGATE SIZE MIX

(4) ALDOT SECTION 401 BITUMINOUS PRIME COAT.

(5) 12" LIME STABILIZATION ALDOT SECTION 232 CLASS 2 COMPACTED TO 98% STANDARD PROCTOR MAXIMUM DRY DENSITY

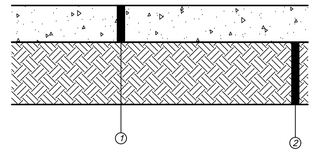



STANDARD DUTY CONCRETE PAVING SECTION

N.T.S.

(7) 6" 4000psi COMPRESSIVE STRENGTH CONCRETE.

(2) 12" LIME STABILIZATION ALDOT SECTION 232 CLASS 2 COMPACTED TO 98% STANDARD PROCTOR MAXIMUM DRY DENSITY




HEAVY DUTY CONCRETE PAVING SECTION

N.T.S.

(7) 8.0" 4000psi COMPRESSIVE STRENGTH CONCRETE.

(2) 12" LIME STABILIZATION ALDOT SECTION 232 CLASS 2 COMPACTED TO 98% STANDARD PROCTOR MAXIMUM DRY DENSITY

GMC
2400 5th Avenue S, Suite 200
Birmingham, AL 35233
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GMCNETWORK.COM

ISSUE | DATE
IFB SET | 05/27/2026

ENGINEER: JG
DESIGNER: AG
DRAWN BY: AG & BS

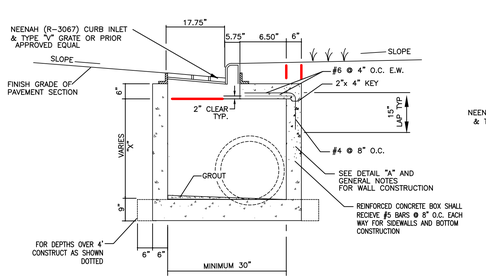
REID STATE COMMUNITY COLLEGE
WELDING AND INDUSTRIAL RENOVATIONS
EVERGREEN, ALABAMA

GMC Project #: CBHM260016

ALABAMA 33812 PROFESSIONAL ENGINEER
05.27.26

SITE DETAILS

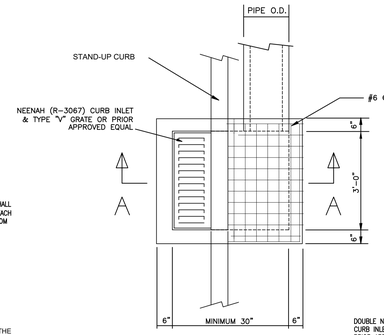
C-903



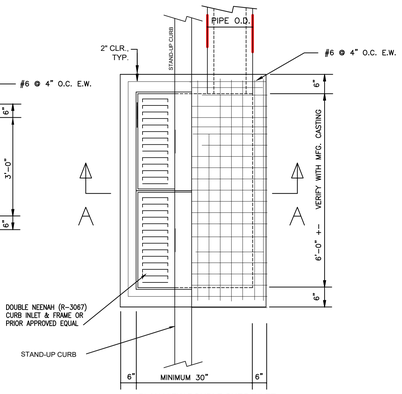

TYPICAL SECTION "A-A"

NOTES:

1. ALL CONCRETE SHALL BE 3,000 PSI. @ 28 DAY COMPRESSIVE STRENGTH.
2. ALL REINFORCING STEEL SHALL BE INTERMEDIATE GRADE DEFORMED BARS AND SHALL CONFORM TO THE REQUIREMENTS OF THE " STANDARD SPECIFICATIONS FOR BILLET STEEL CONCRETE REINFORCEMENT BARS" , ASTM A-15, AND DEFORMATIONS SHALL CONFORM TO ASTM A-305.
3. PIPE MAY CONNECT WITH INLETS FROM ANY DIRECTION, AND AS MANY CONNECTIONS SHALL BE MADE AS ARE NECESSARY. TO ACCOMMODATE LARGE DIAMETER PIPE, OR TO FIT OTHER CONDITIONS, IT MAY BE NECESSARY TO INCREASE ONE OR BOTH PLAN DIMENSIONS OF THE INLET BOX AND COVER SLAB.
4. 2" MINIMUM DIAMETER WEEP HOLES SHALL BE CONSTRUCTED IN INLETS AS DIRECTED BY THE ENGINEER TO FACILITATE SUBGRADE DRAINAGE.
5. MANHOLE STEPS ARE REQUIRED WHEN DIMENSION FROM BOTTOM SLAB FLOW LINE TO TOP SLAB IS GREATER THAN 4'-0".



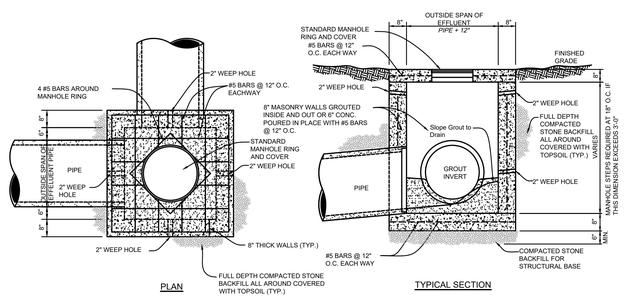

PLAN VIEW SINGLE CURB INLET




PLAN VIEW DOUBLE CURB INLET

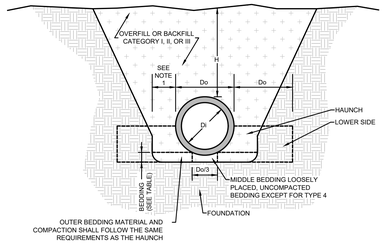
STANDARD CURB INLET DETAIL

N.T.S.




STANDARD JUNCTION BOX DETAIL

N.T.S.




NOTES:

1. CLEARANCE BETWEEN PIPE AND TRENCH WALL SHALL BE ADEQUATE TO ENABLE SPECIFIC COMPACTION BUT NOT LESS THAN Do/6.
2. COMPACTION AND SOIL SYMBOLS, IE 95% CATEGORY I, REFER TO A SOIL MATERIAL CATEGORY WITH A MINIMUM STANDARD PROCTOR DENSITY.
3. WHEN THE TRENCH WIDTH SPECIFIED MUST BE EXCEEDED, THE ENGINEER SHALL BE NOTIFIED.
4. THE TRENCH WIDTH SHALL BE WIDER THAN SHOWN IF REQUIRED FOR ADEQUATE SPACE TO ATTAIN THE SPECIFIED COMPACTION IN THE HAUNCH AND BEDDING ZONES.
5. EMBANKMENT LOADING SHALL BE USED WHEN TRENCH WALLS CONSIST OF EMBANKMENT UNLESS THE GEOTECH REPORT STATES THAT THE SOIL IN THE TRENCH WALLS IS COMPACTED TO A HIGHER LEVEL THAN THE SOIL IN THE BACKFILL ZONE.
6. REQUIRED BEDDING THICKNESS IS THE THICKNESS OF THE BEDDING PRIOR TO THE PLACEMENT OF PIPE.
7. "DUMPED" MATERIAL WITHOUT ADDITIONAL COMPACTIVE EFFORT WILL NOT PROVIDE THE DESIGN HAUNCH SUPPORT REQUIRED FOR TYPE 1 AND TYPE 2 INSTALLATIONS AND IT SHOULD BE CHECKED FOR TYPE 3 INSTALLATIONS.
8. SOIL CLASSIFICATION AND COMPACTION REQUIREMENTS SHALL FOLLOW THE PROVIDED TABLES UNLESS OTHERWISE NOTED IN THE PROJECT GEOTECH REPORT. IT IS THE CONTRACTOR'S RESPONSIBILITY TO FAMILIARIZE HIMSELF/HERSELF WITH THE GEOTECH REPORT FOR ANY DISCREPANCIES.
9. PIPE BEDDING DETAILS ARE FOR RCP PIPES ONLY. THE INSTALLATIONS OF ANY OTHER TYPES OF PIPES (SUCH AS ULTRAFLO, HDPE, PVC, ETC.) SHALL BE INSTALLED AS PER THE MANUFACTURER'S STANDARDS AND SPECIFICATIONS.

STORM PIPE BEDDING DETAIL

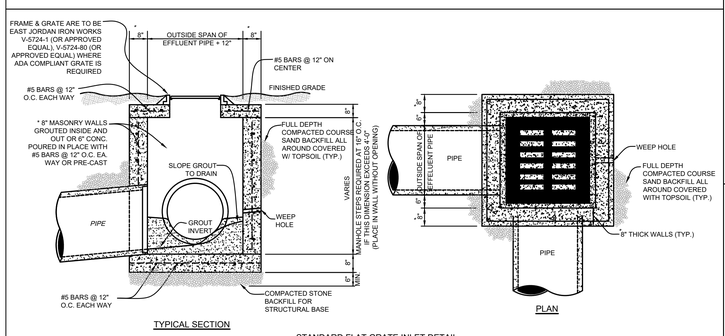
N.T.S.

SOIL AND MINIMUM COMPACTION REQUIREMENTS

| INSTALLATION TYPE | BEDDING THICKNESS | HAUNCH AND OUTER BEDDING | LOWER SIDE |
|---|---|---|---|
| TYPE 1 | Do/24 MINIMUM; NOT LESS THAN 3 IN. IF ROCK FOUNDATION, USE Do/12 MINIMUM; NOT LESS THAN 6 IN. | 95% CATEGORY I | UNDISTURBED NATURAL SOIL WITH FIRMNESS EQUIVALENT TO THE FOLLOWING PLACED SOILS: 90% CATEGORY 1, 95% CATEGORY II, OR 100% CATEGORY III, OR EMBANKMENT TO THE SAME REQUIREMENTS. |
| TYPE 2 | Do/24 MINIMUM; NOT LESS THAN 3 IN. IF ROCK FOUNDATION, USE Do/12 MINIMUM; NOT LESS THAN 6 IN. | 90% CATEGORY I OR 95% CATEGORY II | UNDISTURBED NATURAL SOIL WITH FIRMNESS EQUIVALENT TO THE FOLLOWING PLACED SOILS: 85% CATEGORY 1, 90% CATEGORY II, OR 95% CATEGORY III, OR EMBANKMENT TO THE SAME REQUIREMENTS. |
| TYPE 3 | Do/24 MINIMUM; NOT LESS THAN 3 IN. IF ROCK FOUNDATION, USE Do/12 MINIMUM; NOT LESS THAN 6 IN. | 85% CATEGORY I, 90% CATEGORY II OR 95% CATEGORY III | UNDISTURBED NATURAL SOIL WITH FIRMNESS EQUIVALENT TO THE FOLLOWING PLACED SOILS: 85% CATEGORY 1, 90% CATEGORY II, OR 95% CATEGORY III, OR EMBANKMENT TO THE SAME REQUIREMENTS. |
| TYPE 4 | NO BEDDING REQUIRED, EXCEPT IF ROCK FOUNDATION, USE Do/12 MINIMUM; NOT LESS THAN 6 IN. | NO COMPACTION REQUIRED, EXCEPT IF CATEGORY III, USE 85% CATEGORY III | NO COMPACTION REQUIRED, EXCEPT IF CATEGORY III, USE 85% CATEGORY III. |

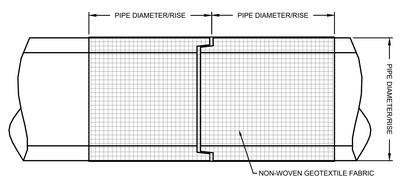
EQUIVALENT USCS AND AASHTO SOIL CLASSIFICATIONS FOR SOIL DESIGNATIONS

| SOIL | REPRESENTATIVE SOIL TYPES | | PERCENT COMPACTION | |
|---|---|---|---|---|
| | USCS ASTM D 2487 | AASHTO M 145 | STANDARD PROCTOR | MODIFIED PROCTOR |
| CATEGORY I | CLEAN, COURSE GRAINED SOILS: SW, SP, GW, GP OR ANY SOIL BEGINNING WITH ONE OF THOSE SYMBOLS WITH 12% OR LESS PASSING A #200 SIEVE. | A-1, A-3 | 100<br>95<br>90<br>85 | 95<br>90<br>85<br>80 |
| CATEGORY II | COURSE GRAINED SOILS WITH FINES: GM, GC, SM, SC OR ANY SOIL BEGINNING WITH ONE OF THOSE SYMBOLS, CONTAINING MORE THAN 12% PASSING A #200 SIEVE; SANDY OR GRAVELLY FINE-GRAINED SOILS: CL, ML, (OR CL-ML, CLML, ML/CL) WITH 30% OR MORE RETAINED ON A #200 SIEVE | A-2-4, A-2-5, A-2-6: OR A-4 OR A-6 SOILS WITH 30% OR MORE RETAINED ON A #200 SIEVE | 100<br>95<br>90<br>85 | 95<br>90<br>85<br>80 |
| CATEGORY III | FINE-GRAINED SOILS: CL, ML, (OR CL-ML, CLML, ML/CL) WITH LESS THAN 30% RETAINED ON A #200 SIEVE | A-2-7: OR A-4 OR A-6 WITH LESS THAN 30 % RETAINED ON A #200 SIEVE | 100<br>95<br>90<br>85 | 90<br>85<br>80<br>75 |
| CATEGORY IV BUT NOT ALLOWED FOR HAUNCH OR BEDDING | MH, CH, OL, OH, PT | A-5, A-7 | 100<br>95<br>90 | 90<br>85<br>80 |




STANDARD FLAT GRATE INLET DETAIL

N.T.S.




WRAPPED PIPE JOINT DETAIL

N.T.S.

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ISSUE DATE
IFB SET 05/27/2026

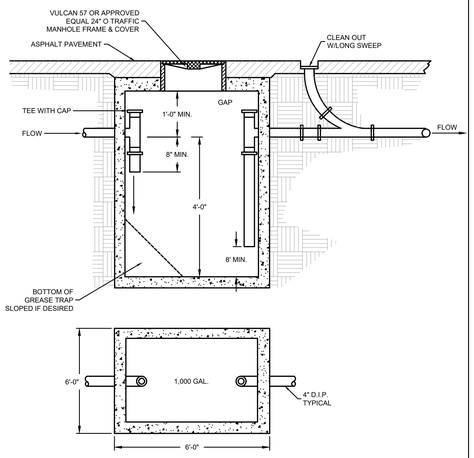
ENGINEER: JG
DESIGNER: AG
DRAWN BY: AG & BS

REID STATE COMMUNITY COLLEGE
WELDING AND INDUSTRIAL RENOVATIONS
EVERGREEN, ALABAMA

GMC Project #: CBHM260016

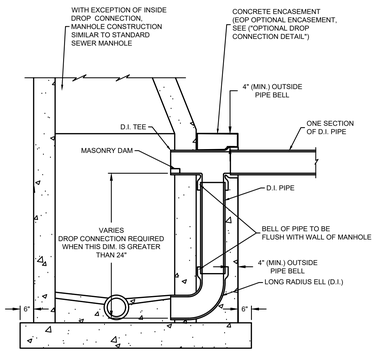
STORM DETAILS

C-904



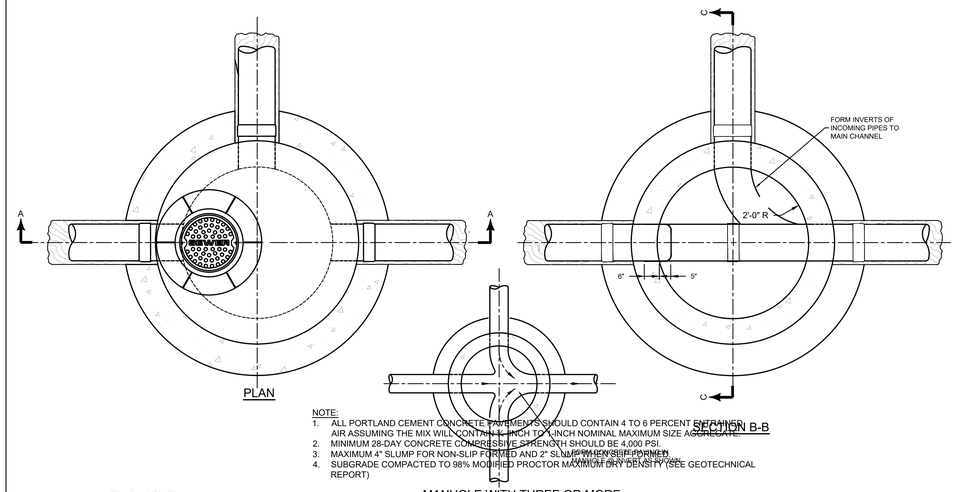

1000 GALLON GREASE TRAP

N.T.S.




DETAIL OF DROP CONNECTION OUTSIDE OF MANHOLE

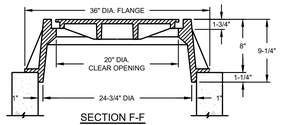
N.T.S.




NOTE:

1. ALL PORTLAND CEMENT CONCRETE PAVEMENTS SHOULD CONTAIN 4 TO 6 PERCENT ENTRAINED AIR ASSUMING THE MIX WILL CONTAIN 1-INCH TO 1-INCH NOMINAL MAXIMUM SIZE AGGREGATE.
2. MINIMUM 28-DAY CONCRETE COMPRESSIVE STRENGTH SHOULD BE 4,000 PSI.
3. MAXIMUM 4" SLUMP FOR NON-SLIP FORMED AND 2" SLUMP WHEN SLIP FORMED.
4. SUBGRADE COMPACTED TO 98% MODIFIED PROCTOR MAXIMUM DRY DENSITY (SEE GEOTECHNICAL REPORT)

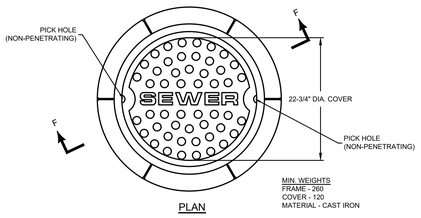
MANHOLE WITH THREE OR MORE PIPES AT INVERT




SECTION F-F

NOTE:

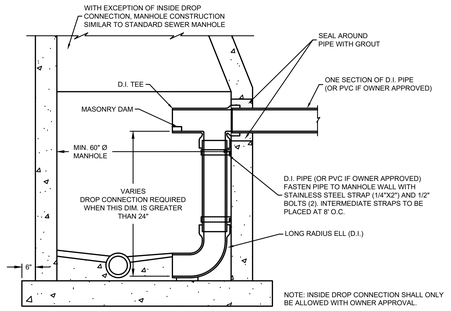
THE PORTION OF THE FRAME AND COVER WHICH FORMS THE COVER SEAT SHALL BE MACHINED SO THAT NO ROCKING IS POSSIBLE.




PLAN

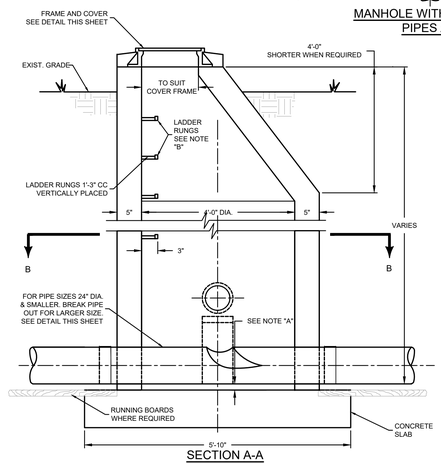
MANHOLE FRAME & COVER

N.T.S.

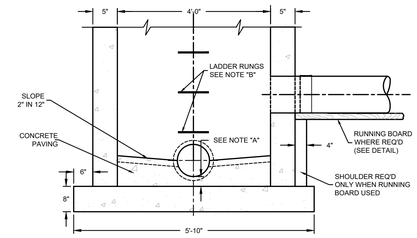



DETAIL OF DROP CONNECTION INSIDE OF MANHOLE

N.T.S.




SECTION A-A




SECTION C-C

NOTE "A"

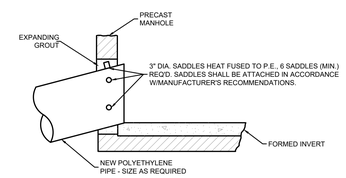
DISTANCE BETWEEN INVERT OF PIPE AND OUTSIDE OF BELL DETERMINES THE ELEVATION OF TOP OF 8" CONCRETE SLAB.

NOTE "B"

MANHOLE STEPS SHALL BE STEEL RODS ENCASED IN POLYPROPYLENE PLASTIC AND SHALL BE TYPE "PS1-PF" AS MANUFACTURED BY M.A. INDUSTRIES, INC., OR AN APPROVED EQUAL.

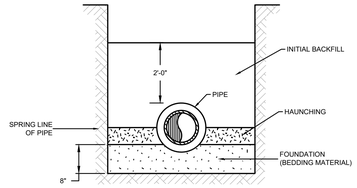
DETAIL OF MANHOLE FOR PIPE 24" DIA. & SMALLER

N.T.S.



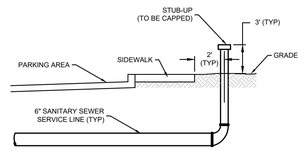

POLYETHYLENE MANHOLE CONNECTION GROUTED IN WALL

N.T.S.




EMBEDMENT DETAIL FOR PVC GRAVITY SEWER PIPE

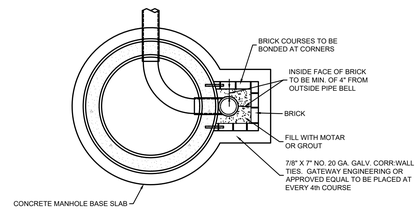
N.T.S.




SEWER TERMINUS

N.T.S.

NOTE: CONTRACTOR MAY AT HIS OPTION USE BRICK ENCASEMENT SHOWN BELOW IN LIEU OF CONCRETE.




OPTIONAL DROP CONNECTION

N.T.S.

GMC
2400 5th Avenue S, Suite 200
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ISSUE DATE
IFB SET 05/27/2026

ENGINEER: JG
DESIGNER: AG
DRAWN BY: AG & BS

REID STATE COMMUNITY COLLEGE
WELDING AND INDUSTRIAL RENOVATIONS
EVERGREEN, ALABAMA

GMC Project #: CBHM260016

ALABAMA REGISTERED No. 33812 PROFESSIONAL ENGINEER JOHN PABLO GATTIS
05.27.26

SEWER DETAILS

C-905

## PLANT SCHEDULE

| CODE | QTY | BOTANICAL NAME | COMMON NAME | SIZE | SPACING |
|---|---|---|---|---|---|
| SHRUBS | | | | | |
| ABE PFC | 6 | ABELIA X 'SRPABEPER' | PEACH PERFECTION® GLOSSY ABELIA | 3 GAL | 48" o.c. |
| ILE BUR | 75 | ILEX CORNUTA 'BURFORDII NANA' | DWARF BURFORD HOLLY | 3 GAL | 36" o.c. |
| ILE NAN | 40 | ILEX VOMITORIA 'NANA' | DWARF YAUPON HOLLY | 3 GAL | 36" o.c. |
| MUH CAP | 59 | MUHLENBERGIA CAPILLARIS | PINK MUHLY GRASS | 3 GAL | 36" o.c. |
| CODE | QTY | BOTANICAL NAME | COMMON NAME | TYPE | SPACING |
| GROUND COVERS | | | | | |
| SEED | 19,984 SF | HYDROSEED | HYDROSEED | HYDROSEED | |

(3,902 sf) SEED
(9) MUH CAP
(18) ILE BUR
(10) ILE NAN
(18) MUH CAP
(15) ILE BUR
(3) ABE PFC
(4,809 sf) SEED
(622 sf) SEED
(642 sf) SEED
5 L2.01 AMERISTAR - MONTAGE II FENCE
6 L2.01 AMERISTAR - MONTAGE II FENCE GATES
(2) 10' WIDE GATES
(2,382 sf) SEED
(171 sf) SEED
(55 sf) SEED
4' WIDE SINGLE GATE
(11) ILE NAN
(14) ILE BUR
(3) ABE PFC
(14) ILE BUR
(1,470 sf) SEED
(322 sf) SEED
(4,877 sf) SEED
(14) ILE BUR
(17) MUH CAP
(15) MUH CAP
(19) ILE NAN
(375 sf) SEED
(357 sf) SEED
BUILDING 400
BUILDING 200
NEW MECHANICAL PAD AND FENCE
ASPHALT PARKING

NORTH
0' 20' 40' 80'
SCALE: 1 IN = 20 FT

GMC
2400 5th Ave S. Suite 200
Birmingham, AL 35233
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| ISSUE | DATE |
|---|---|
| IFB SET | 05/27/2026 |

DRAWN BY:
CHECKED BY:

REID STATE COMMUNITY COLLEGE
WELDING AND INDUSTRIAL RENOVATIONS
EVERGREEN ALABAMA

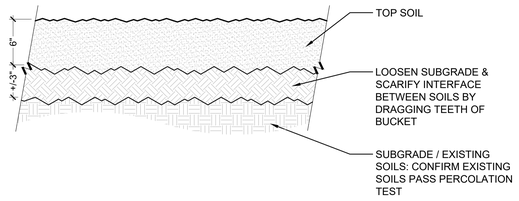
GMC Project #: LBHM260021

STATE OF ALABAMA
PATRICK ELIAS
PATRICKSWATER
955
REGISTERED LANDSCAPE ARCHITECT
8969
REGISTERED ARCHITECT

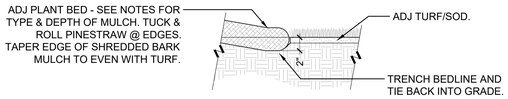
MATERIALS PLAN

L1.01

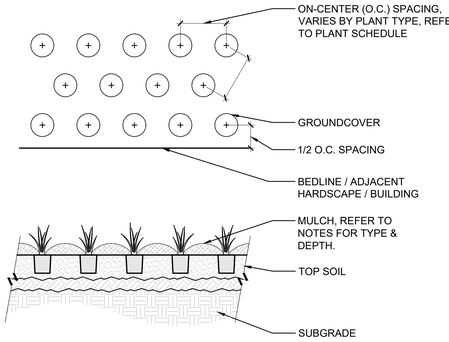
**NOTES:**
1. PLANT BEDS SHALL BE IDENTIFIED BY AREAS IN THE PLANS FILLED WITH GROUNDCOVER AND SHRUB MATERIAL.



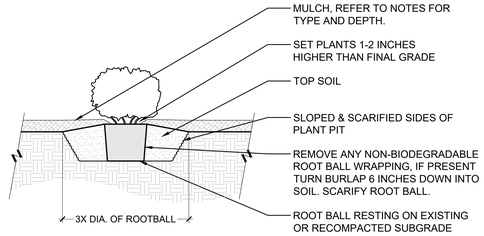

## 1 PLANT BED SOIL PREPARATION
1 1/2" = 1'-0"



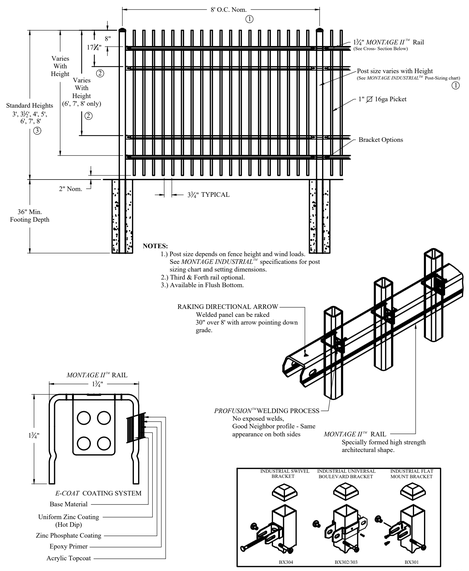

## 2 BEDLINE, TYPICAL
1 1/2" = 1'-0"




## 3 GROUNDCOVER & PERENNIAL PLANTING
3/4" = 1'-0"

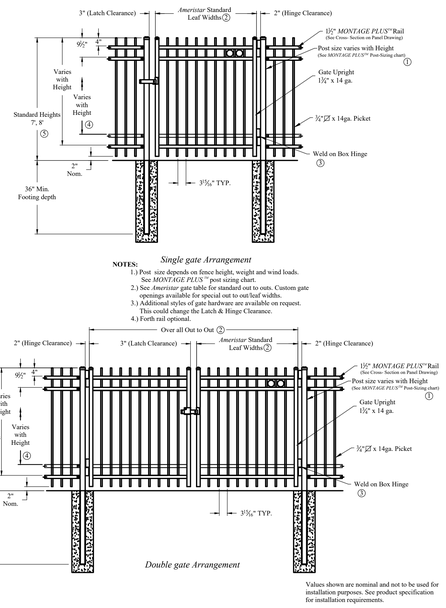



## 4 SHRUB PLANTING
3/4" = 1'-0"




NOTE:
1. REFER TO MANUFACTURER'S REQUIREMENTS FOR FOOTING SIZE
2. REFER TO MANUFACTURER'S REQUIREMENTS FOR POST SIZING
3. ALL FENCING TO BE 7' HT. TYP.
4. FENCE STYLE TO BE "GENESIS"

## 5 AMERISTAR - MONTAGE II FENCE
NTS




NOTE:
1. REFER TO MANUFACTURER'S REQUIREMENTS FOR FOOTING SIZE
2. REFER TO MANUFACTURER'S REQUIREMENTS FOR POST SIZING
3. REFER TO MANUFACTURER'S REQUIREMENTS FOR HARDWARE
4. DOUBLE FENCE GATE WIDTH TO BE MIN. 12' CLEAR SPACE
5. ALL FENCING TO BE 7' HT. TYP.
6. FENCE STYLE TO BE "GENESIS"

## 6 AMERISTAR - MONTAGE II FENCE GATES
NTS

## PLANT INSTALLATION NOTES

1. PLANT NAMES MAY BE ABBREVIATED ON DRAWINGS. REFER TO PLANT SCHEDULE FOR ABBREVIATIONS, BOTANICAL & COMMON NAMES, SIZES, ESTIMATED QUANTITIES AND OTHER REMARKS.
2. CONTRACTOR SHALL VERIFY THE TOTAL QUANTITIES INDICATED IN THE PLANT LIST WITH THE QUANTITIES SHOWN ON THE PLAN. CONTRACTOR SHALL PROVIDE QUANTITIES REQUIRED TO COMPLETE PROPOSED PLANTING AS INDICATED ON THE PLAN.
3. CONTRACTOR SHALL GIVE THE LANDSCAPE ARCHITECT THE OPPORTUNITY TO TAG & REVIEW TREES IN THE NURSERY OR FIELD PRIOR TO DIGGING.
4. ALL PLANT/ROOTBALL SIZES & THE METHOD OF DETERMINING TREE CALIPER SHALL CONFORM TO THE RECOMMENDATIONS OF THE LATEST EDITION OF ANSI Z60.1 - AMERICAN STANDARD FOR NURSERY STOCK.
5. ANY & ALL PLANT SUBSTITUTIONS SHALL BE APPROVED BY THE LANDSCAPE ARCHITECT PRIOR TO PURCHASE & INSTALLATION.
6. THE LANDSCAPE ARCHITECT MAY REJECT ANY PLANT AT ANY TIME UNTIL THE END OF THE WARRANTY PERIOD. PLANTS THAT RECEIVED A PRIOR APPROVAL ARE NOT EXCLUDED FROM REJECTION AT A LATER DATE. GROUNDS FOR REJECTION INCLUDE BUT ARE NOT LIMITED TO:
   A. NON-CONFORMANCE WITH CRITERIA DESCRIBED IN PLANT SCHEDULE.
   B. THE PRESENCE, EVIDENCE, OR DAMAGE FROM DISEASE, INSECTS/PESTS, EGGS, & LARVAE.
   C. GIRDLED & KINKED ROOTS, CRACKED/BROKEN ROOT BALLS, MECHANICALLY DAMAGED ROOTS.
   D. BROKEN LIMBS, INCLUDED BARK, OR EVIDENCE OF MECHANICAL INJURY.
   E. PLANTS THAT ARE NOT FULL/DENSE, WELL BRANCHED, OR SYMMETRICAL UNLESS IT IS UNCHARACTERISTIC OF SPECIFIED SPECIES.
   F. PLANTS DETERMINED AT THE DISCRETION OF THE LANDSCAPE ARCHITECT TO BE AESTHETICALLY DEAD WHERE APPROXIMATELY 25% OR MORE OF THE PLANT IS SHOWING SIGNS OF DEATH/DIEBACK.
   G. SHIPMENT TO THE SITE IN UNCOVERED VEHICLES/TRAILERS REGARDLESS OF SEASON.
5. REMOVE FROM SITE ANY & ALL EXISTING VEGETATION INCLUDING STUMPS & ROOTS IN CONFLICT WITH PLANTING PLAN UNLESS EXPLICITLY DESIGNATED FOR PROTECTION.
6. LAYOUT ALL TREES & BED-LINES AS INDICATED IN THE LANDSCAPE DRAWINGS AND RECEIVE APPROVAL FROM THE LANDSCAPE ARCHITECT PRIOR TO INSTALLATION. LAYOUT SHALL BE DONE WITH HIGH VISIBILITY FLAGS AND/OR WOODEN STAKES & BED-LINES SHALL BE LAID OUT WITH MARKING PAINT. THE LANDSCAPE ARCHITECT RESERVES THE RIGHT TO MAKE LAYOUT ADJUSTMENTS AS NECESSARY AT NO ADDITIONAL COST TO OWNER. NOTIFY LANDSCAPE ARCHITECT OF CONTEMPLATED ADJUSTMENTS TO THE LAYOUT & RECEIVE APPROVAL PRIOR TO COMMENCING WITH ADJUSTMENT.
7. DO NOT INSTALL PLANTS IN SATURATED OR FROZEN CONDITIONS. DO NOT INSTALL PLANTS DURING INCLEMENT WEATHER.
8. SET ALL PLANTS PLUMB & TURNED SO THAT THE MOST ATTRACTIVE SIDE IS MOST COMMONLY VIEWED. MAINTAIN IN PLUMB POSITION THROUGHOUT WARRANTY PERIOD.
9. ALL PLANTING BEDS AND TREES SHALL BE MULCHED WITH 3-4 IN. OF SETTLED PINE STRAW THAT IS FREE FROM DEBRIS, LEAVES, TWIGS, INSECTS, GRASSES, WEEDS, PLANTS AND THEIR SEEDS, AND ANY SUBSTANCE HARMFUL TO PLANT GROWTH. PINE STRAW MULCH SHALL BE TUCKED & ROLLED AT ALL EDGES.
   A. TREES PLACED IN SODDED/TURFGRASS AREAS SHALL BE MULCHED WITH AN 8 FT. DIAMETER MULCH RING UNLESS OTHERWISE NOTED ON PLANS.
10. CONTRACTOR TO PROVIDE INTERIM MAINTENANCE UNTIL SUBSTANTIAL COMPLETION NOTICE IS PROVIDED BY THE LANDSCAPE ARCHITECT. THIS INCLUDES:
   A. WATERING
   B. MOWING, TRIMMING, EDGING, BLOWING & WEEDING.
   C. FERTILIZING & APPLICATION OF NECESSARY INSECTICIDES/HERBICIDES
   D. GUYING TREES WHEN DIRECTED BY OWNER OR LANDSCAPE ARCHITECT.
   E. ADEQUATE DRAINAGE OF PONDING AREAS.
   F. GENERAL LANDSCAPE CLEAN-UP.

## GENERAL LANDSCAPE NOTES

1. CONTRACTOR SHALL BE RESPONSIBLE FOR FAMILIARIZING THEMSELVES WITH ALL CONTRACT DOCUMENTS & RELATED EXISTING CONDITIONS, UTILITIES, STRUCTURES, ETC. PRIOR TO BIDDING AND CONSTRUCTION.
2. CONTRACTOR'S BASE BID TO INCLUDE ALL MATERIALS, LABOR, PERMITS, EQUIPMENT, TOOLS, INSURANCE, ETC. TO PERFORM THE WORK AS DESCRIBED IN THE CONTRACT DOCUMENTS.
3. PERFORM ALL WORK IN COMPLIANCE WITH ALL APPLICABLE LAWS, CODES, & REGULATIONS REQUIRED BY AUTHORITIES HAVING JURISDICTION OVER SUCH WORK & PROVIDE PERMITS REQUIRED BY LOCAL AUTHORITIES.
4. CONTRACTOR TO COMPLETE ALL WORK WITHIN SCHEDULE ESTABLISHED BY OWNER.
5. CONTRACTOR IS RESPONSIBLE FOR REPAIRING ALL WORK DISTURBED BY CONSTRUCTION TO A CONDITION BETTER THAN OR EQUAL TO THE CONDITIONS THAT EXISTED PRIOR TO THE BEGINNING OF CONSTRUCTION AT NO ADDITIONAL COST TO OWNER.
6. SEE CIVIL DRAWINGS FOR INFORMATION REGARDING EROSION/SEDIMENT CONTROL, LOCATION OF EXISTING & PROPOSED STRUCTURES, PAVING, DRIVEWAYS, CUT & FILL AREAS, LIMITS OF CONSTRUCTION, EXISTING & PROPOSED UTILITIES OR EASEMENTS.

## PLANTING SOIL & PREPARATION NOTES

1. CONTRACTOR SHALL CONDUCT & SUBMIT TO THE LANDSCAPE ARCHITECT AN ANALYSIS OF A MINIMUM OF (3) SAMPLES OF EXISTING SOIL FROM AREAS TO BE PLANTED . THE ANALYSIS SHALL BE DONE BY A SOIL TESTING LAB APPROVED BY THE LANDSCAPE ARCHITECT IN ADVANCE AND SHALL INCLUDE THE FOLLOWING RESULTS WITH RECOMMENDATIONS:
   A. S1A - ORGANIC MATTER, AVAILABLE PHOSPHORUS, EXCHANGEABLE POTASSIUM, MAGNESIUM, CALCIUM, SOIL pH, CATION EXCHANGE CAPACITY, PERCENT BASE SATURATION OF CATION ELEMENTS.
   B. S3 - SULFUR, ZINC, MANGANESE, IRON, COPPER, BORON
   C. TEXTURE ANALYSIS
2. TOPSOIL (& PLANTING SOIL WHEN DIFFERENT) SHALL BE PROVIDED MIXED AND READY FOR INSTALLATION. TOPSOIL SHALL MEET THE FOLLOWING CRITERIA & STRIPPED/STOCKPILED TOPSOIL MAY BE USED IF IT CAN REASOANBLY BE BROUGHT UP TO THESE CRITERIA.
   A. FERTILE, FRIABLE, NATURALLY OCCURRING, FREE OF TRASH, ROCKS/STONES, & DEBRIS LARGER THAN 2 INCHES IN ANY DIMENSION
   B. FREE OF ANY GRASSES, WEEDS, SEEDS, PLANTS, & ANY SUBSTANCE HARMFUL TO PLANT GROWTH.
   C. pH RANGE OF 5.0-7.0
   D. ORGANIC MATTER: 5-10%
   E. SAND: 50-70%, SILT: LESS THAN 30%, CLAY: 10-25%
   F. PERMEABILITY RATE OF 5X10 (-3) CENTIMETERS OR GREATER AT 85% COMPACTION.
3. CONTRACTOR SHALL COORDINATE WITH OWNER'S REPRESENTATIVE THE LOCATION OF STOCKPILE AREAS FOR STRIPPED TOPSOIL AND PLANTING SOIL PRODUCTS. CONTRACTOR SHALL ENSURE AREA IS PROTECTED FROM CONTAMINATION & DISTURBANCE
4. FINAL GRADES DEPICTED ON THE GRADING PLAN (REFER TO CIVIL DRAWINGS) ARE TO ACCOUNT FOR PLANTING SOIL DEPTHS INDICATED IN THE LANDSCAPE DRAWINGS/DETAILS. CONTRACTOR SHALL ENSURE SUBGRADE IS SCARIFIED PRIOR TO INSTALLING PLANTING SOIL.
5. FINAL FINISHED GRADING SHALL BE REVIEWED BY THE LANDSCAPE ARCHITECT. CONTRACTOR IS RESPONSIBLE FOR ANY ADDITIONAL TOPSOIL REQUIRED TO CREATE A SMOOTH CONDITION SUITABLE FOR PLANTING.
6. ALL TRASH, DEBRIS LARGER THAN 2 INCHES IN DIAMETER IN ANY DIRECTION, ROCK, COBBLE, EXCAVATION SPOILS, & GRAVEL SHALL BE REMOVED AND LEGALLY DISPOSED OF OFF-SITE PRIOR TO THE INSTALLATION OF TOPSOIL/PLANTING SOIL.
7. COORDINATE INSTALLATION OF TOPSOIL/PLANTING SOIL WITH OTHER WORK. PLACEMENT SHALL OCCUR AFTER INSTALLATION OF HARDSCAPE IMPROVEMENTS, IRRIGATION SYSTEMS, UTILITIES, ETC. AND BEFORE PLANT INSTALLATION.
8. PRIOR TO PLANT INSTALLATION, PLANT BEDS AND PITS SHALL BE TESTED FOR PERCOLATION BY THE CONTRACTOR AT NO ADDITIONAL COST TO OWNER. TEST SHALL CONSIST OF 1 FT DIAMETER BY 1 FT DEEP MIN HOLE, OR THE PLANTING PIT, FILLED WITH WATER. IF WATER HAS NOT DISSIPATED BY 50% WITHIN 2 HOURS, NOTIFY THE LANDSCAPE ARCHITECT IN WRITING PRIOR TO INSTALLATION. IN HARDPAN CONDITIONS, INSTALL DRAIN PIPES AS PER PLANTING DETAILS.

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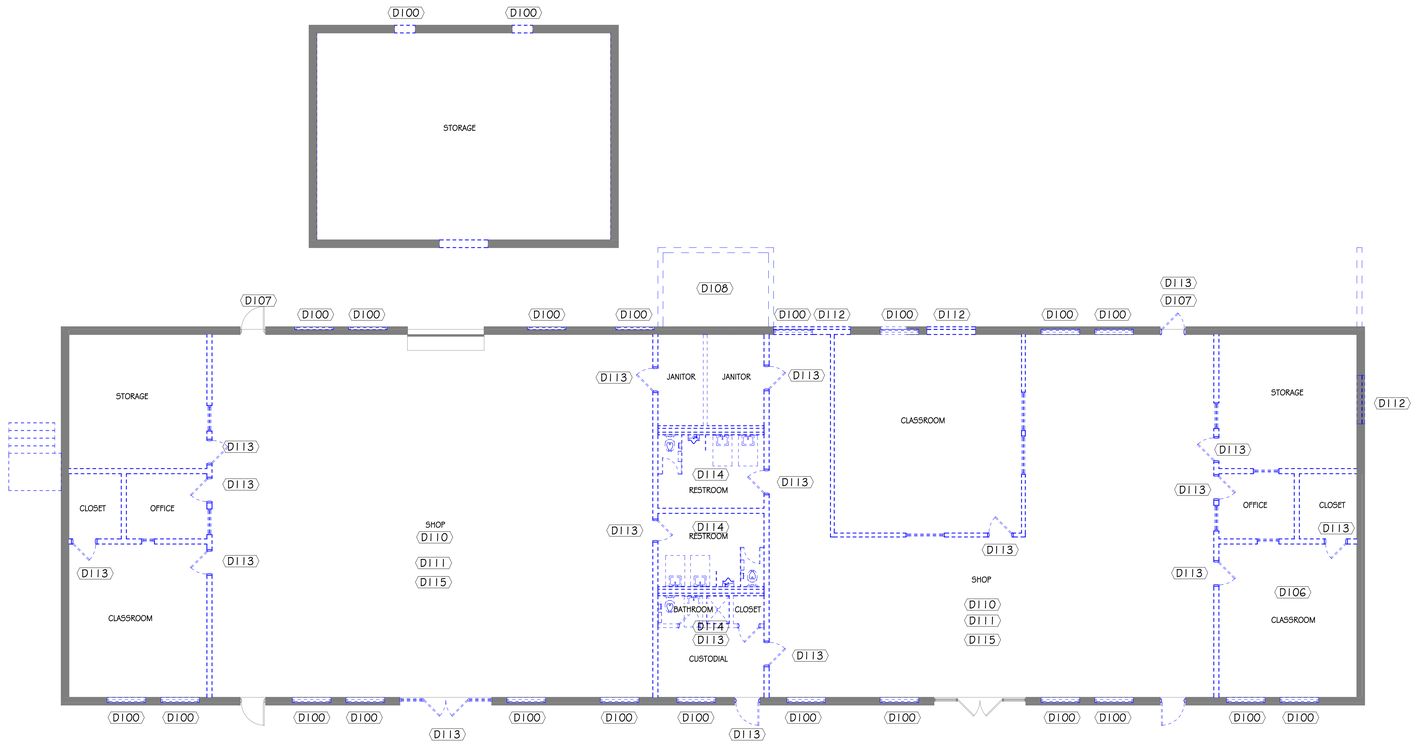
REID STATE COMMUNITY COLLEGE
WELDING AND INDUSTRIAL RENOVATIONS
EVERGREEN, ALABAMA

GMC Project #: LBHM260021

STATE OF ALABAMA
PATRICK ELIAS
PROFESSIONAL ENGINEER
PATRICK S. WATSON
REGISTERED LANDSCAPE ARCHITECT
955
8969
REGISTERED ARCHITECT

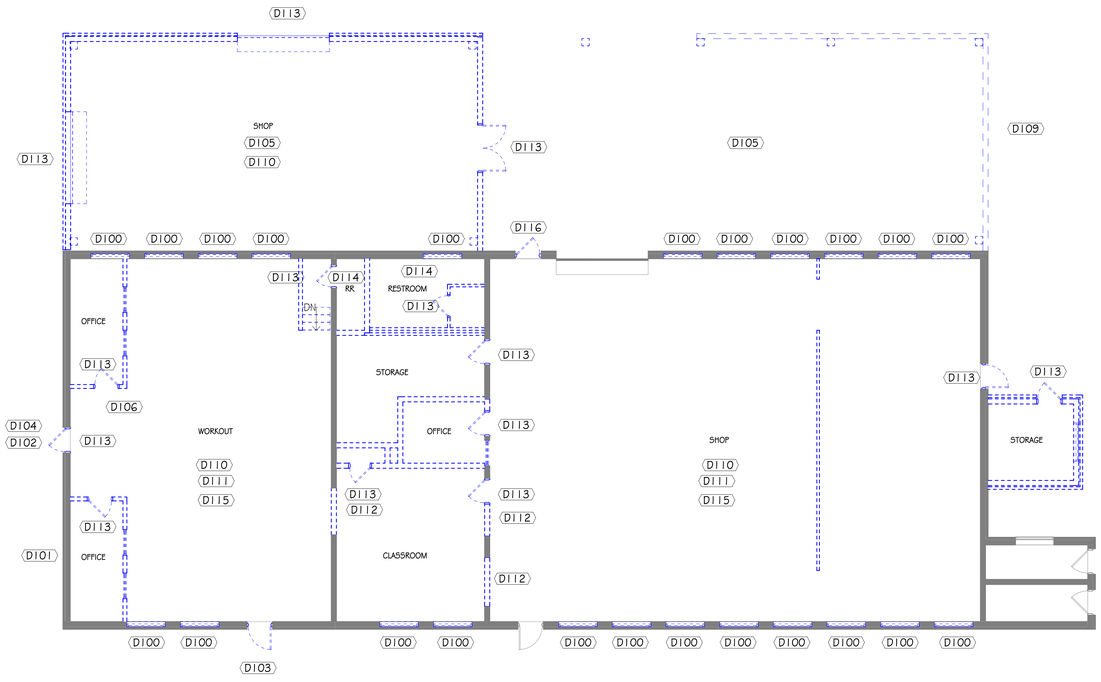
MATERIALS DETAILS

L2.01




## F2 BUILDING 700 - EXISTING PLAN Demo

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




TRUE NORTH PLAN NORTH

## A2 BUILDING 300 - EXISTING PLAN Demo

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

## KEY NOTES - DEMOLITION

| KEY | KEYNOTE |
|---|---|
| D100 | REMOVE EXISTING WINDOWS AT THIS LOCATION AND PREPARE ALL SURFACES TO RECEIVE NEW WORK. |
| D101 | REMOVE EXISTING WALL MOUNTED HVAC UNIT. PROVIDE MASONRY INFILL KEYED IN TO MATCH EXISTING |
| D102 | REMOVE EXISTING SIDEWALK AND HANDRAILS |
| D103 | REMOVE EXISTING SIDEWALK AND STONE WALL ON EACH SIDE OF DOOR. |
| D104 | REMOVE EXISTING CANOPY ABOVE DOOR. PATCH ALL EXTERIOR HOLES WITH MORTAR |
| D105 | CONTRACTOR SHALL REMOVE ALL EXISTING CONCRETE, ASPHALT, COLUMNS, AND COLUMN FOOTINGS. UNDERCUT THE ENTIRE AREA OF NEW BUILDING FOOTPRINT FROM TOP FINISH SURFACE DOWN 6'-0" BELOW FINISHED FLOOR AND 5'-0" BEYOND THE WALLS OF THE NEW BUILDING PAD. PROVIDE STRUCTURAL FILL AND COMPACT IN LIFTS PER THE CONTRACT DOCUMENTS |
| D106 | REMOVE EXTENT OF EXISTING CONCRETE SLAB FROM THIS LOCATION FOR NEW PLUMBING |
| D107 | REMOVE EXISTING CONCRETE CANOPY FROM ABOVE DOOR. PROVIDE MASONRY INFILL AND ANCHORAGE AS REQUIRED |
| D108 | REMOVE EXISTING AIR COMPRESOR SHED |
| D109 | REMOVE EXISTING MASONRY SCREEN WALL |
| D110 | REMOVE INTERIOR WALLS AND THEIR ENTIRETY UNLESS OTHERWISE NOTED |
| D111 | REMOVE PORTION OF EXISTING WALL FOR MECH. DUCTS/LOUVERS. GC TO COORDINATE EXACT LOCATION WITH MEP DRAWINGS BEFORE INSTALL. |
| D112 | REMOVE PORTION OF EXISTING WALL TO RECEIVE NEW OPENING |
| D113 | DEMO EXISTING DOOR IN ITS ENTIRETY |
| D114 | TRENCH EXISTING SLAB FOR PLUMBING TO TIE INTO EXISTING SEWER, GC TO CONFIRM VERTS & OUTFALL PRIOR TO INSTALL |
| D115 | TRENCH EXISTING SLAB FOR POWER & PLUMBING REQUIREMENTS FOR NEW EQUIPMENT, COORDINATE FINAL LAYOUT WITH OWNER AND EQUIPMENT PROVIDER |
| D116 | EXISTING FRAME TO REMAIN. DOOR SWING TO SWITCH PER DRAWINGS. IF EXISTING DOOR CANNOT BE MODIFIED FOR NEW SWING DIRECTION, PREP FRAME TO RECEIVE NEW DOOR AND HARDWARE |

## DEMOLITION LEGEND

EXISTING TO REMAIN

TO BE DEMOLISHED

**NOTE:** GENERAL CONTRACTOR TO PROVIDE ALL NECESSARY PROTECTIONS AND STRUCTURES REQUIRED TO MAINTAIN EGRESS ROUTES FROM EXISTING FACILITY(S) DURING DEMOLITION THROUGHOUT NEW CONSTRUCTION. PROTECTIONS INCLUDE (BUT ARE NOT LIMITED TO) : TEMPORARY OVERHEAD PROTECTION, TEMPORARY PARTITION WALLS, FENCING, ACCESS DOORS, SIGNAGE, ETC.

## GENERAL NOTES - DEMOLITION PLAN

1. *SEE SPECIFICATIONS FOR ASBESTOS AND LEAD PAINT ASSESSMENT AND EXISTING CONSTRUCTION TO BE ABATED.

2. THE GENERAL CONTRACTOR SHALL FIELD VERIFY ALL CONDITIONS PRIOR TO BIDDING TO DETERMINE THE SCOPE OF WORK THAT IS TO OCCUR DURING DEMOLITION IN ORDER TO ACHIEVE NEW CONSTRUCTION AND COORDINATE ANY DISCREPANCIES WITH THE ARCHITECT.

3. THE OWNER SHALL HAVE THE FIRST RIGHT OF REFUSAL OF ALL SALVAGED ITEMS.

4. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING NEW WORK WITHIN THE EXISTING CONDITIONS.

5. THE WALLS INDICATED TO BE REMOVED IN THEIR ENTIRETY SHALL INCLUDE ALL ELECTRICAL OUTLETS, SWITCHES, CONDUITS, TELEPHONE JACKS, DATA JACKS, WIRING, MECHANICAL DUCT AND, PLUMBING, ETC. REFER TO MEP & STRUCTURAL DRAWINGS FOR ANY ADDITIONAL DEMOLITION NOTES AND COORDINATE DISCREPANCIES WITH ARCHITECT.

6. REFER TO CIVIL, STRUCTURAL, PLUMBING, AND MECHANICAL DRAWINGS FOR ADDITIONAL NOTES AND REQUIREMENTS FOR ABANDON UTILITIES.

7. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT IMMEDIATELY IF DEMOLITION WORK APPEARS TO AFFECT THE STRUCTURAL INTEGRITY OF THE EXISTING BUILDING BEFORE PROCEEDING.

8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DAMAGE TO EXISTING MATERIALS TO REMAIN RESULTING FROM WORK UNDER THIS CONTRACT AND SHALL RESTORE SUCH DAMAGE TO ITS ORIGINAL CONDITION.

9. THE CONTRACTOR SHALL PROVIDE CONCRETE BLOCK INFILL IN THOSE LOCATIONS WHERE MECHANICAL, PLUMBING, RECESSED TOILETRY ACCESSORIES, AND ELECTRICAL COMPONENTS HAVE BEEN REMOVED.

10. CONTRACTORS SHALL PREP ALL WALL SURFACES TO REMOVE ALL SURFACE MATTER TO REPAIR, PATCH AND PRIME WALL SURFACES TO RECEIVE NEW PAINT FINISH.

11. REMOVE ALL SURFACE MOUNTED OBJECTS IN AREA OF WORK THAT ARE TO BE ABANDONED AND NOT INTENDED FOR REUSE. PREPARE SURFACE FOR NEW FINISH.

12. COORDINATE DEMOLITION WORK BETWEEN MECHANICAL, PLUMBING, ELECTRICAL, AND STRUCTURAL DRAWINGS. NOTIFY ARCHITECT WITH DISCREPANCIES OR INCONSISTENCIES BETWEEN THESE DRAWINGS AND / OR ACTUAL FIELD CONDITIONS DIFFER.

13. SCANS OF THE EXISTING DRAWINGS ARE AVAILABLE UPON REQUEST. CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFICATION AS-BUILT CONDITIONS. EXISTING DRAWINGS ARE TO BE USED FOR REFERENCE AND COORDINATION ONLY.

14. OWNER WILL BE RESPONSIBLE FOR REMOVING ALL LOOSE FURNISHINGS AND CONTENTS FROM THE BUILDING.

15. REMOVE PORTION OF EXISTING CONCRETE SLABS AS REQUIRED TO INSTALL NEW WORK.

16. REMOVE EXISTING CEILING TILE, GRID, LIGHT FIXTURES, DIFFUSERS, ETC. TO RECEIVE NEW WORK. REFER TO MEP DRAWINGS FOR ADDITIONAL NOTES.

17. CONTRACTOR SHALL REMOVE ALL EXISTING PLUMBING FIXTURES, DRINKING FOUNTAINS, AND TOILET ACCESSORIES. TEST ALL PIPING PROPOSED FOR REUSE. SEE SPECIFICATIONS FOR ADDITIONAL NOTES AND REQUIREMENTS.

18. REMOVE EXISTING FLOOR FINISHES, ALL LAYERS, AND WALL BASE. THEN PREPARE ALL SURFACES TO RECEIVE NEW WORK.

19. REMOVE DOORS SCHEDULED TO BE DEMOLISHED. PREPARE OPENING TO RECEIVE NEW DOOR.

20. REMOVE EXISTING MILLWORK / CASEWORK AND ASSOCIATED CONSTRUCTION. PATCH, REPAIR AND PREP WALLS AND FLOORS AS REQUIRED TO RECEIVE NEW FINISH UNLESS OTHERWISE NOTED.

21. ALL EXISTING BUILDING DIMENSIONS ARE APPROXIMATE AND ARE PROVIDED FOR CONVENIENCE ONLY. ALL REQUIRED DIMENSIONS MUST BE FIELD VERIFIED.

22. CONTRACTOR WILL BE RESPONSIBLE FOR SCOPING EXISTING PLUMBING WITH A CAMERA PRIOR TO CONNECTING WITH NEW PLUMBING. IN THE EVENT EXISTING PIPE IS DETERIORATED NOTIFY ARCHITECT.

23. PROCEED WITH CAUTION WHEN REMOVING EXISTING CONCRETE SLAB. ELECTRICAL CONDUITS MAY POTENTIALLY BE EMBEDDED IN THE EXISTING CONCRETE SLAB TO BE REMOVED.

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STATE OF ALABAMA
PATRICK SWATEK
8969
REGISTERED ARCHITECT

**DEMOLITION PLANS**

A1.01

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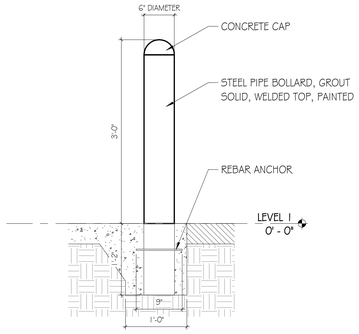


## H5 BOLLARD DETAIL
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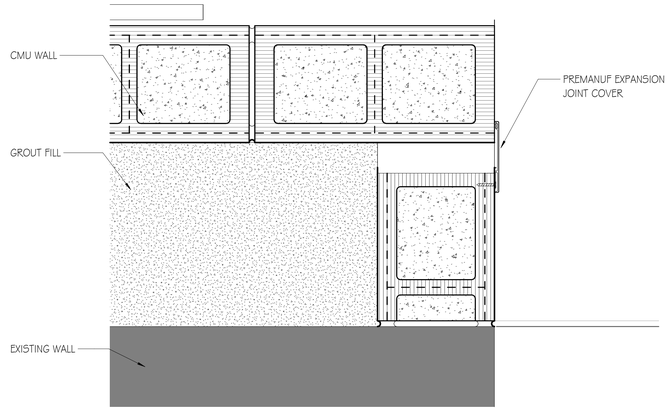
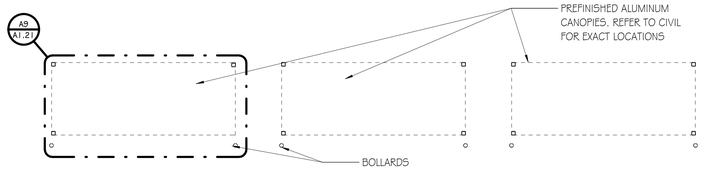
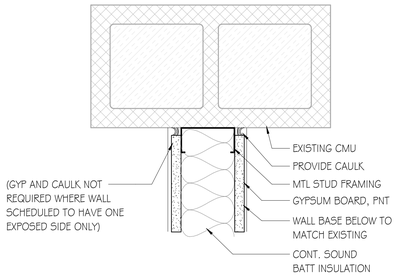
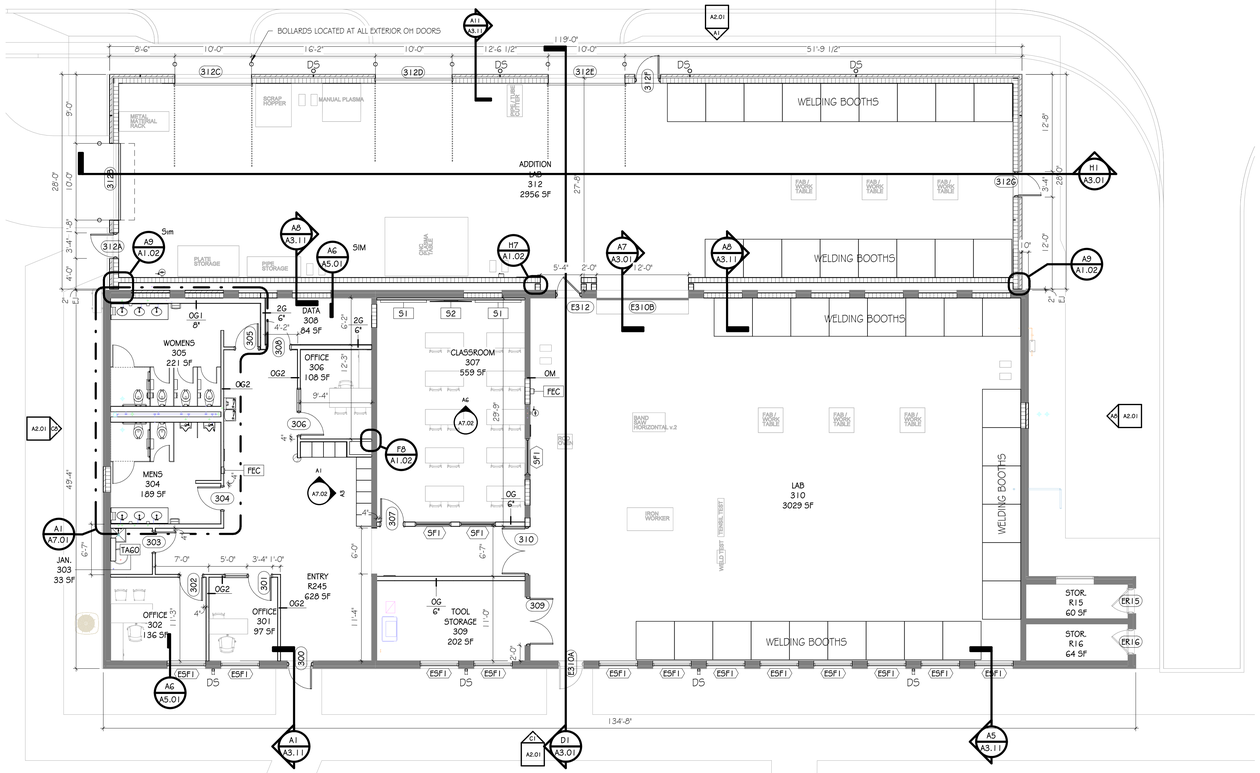



## H7 EJ @ DOOR OPENING
SCALE: 3" = 1'-0"



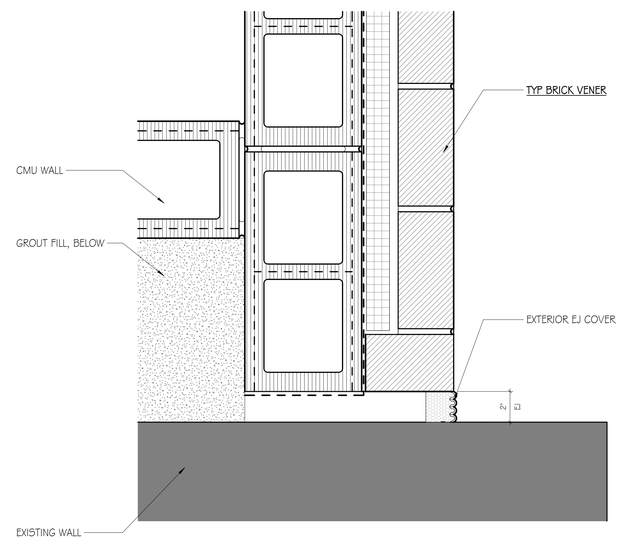

## F8 PLAN DETAIL - GYP. WALL @ EXISTING CMU
SCALE: 3" = 1'-0"




PLAN NORTH

TRUE NORTH

## A1 BUILDING 300 - RENOVATION PLAN
SCALE: 1/8" = 1'-0"




## A9 EXPANSION JOINT DETAIL
SCALE: 3" = 1'-0"

## GENERAL NOTES - RENOVATION

1. CONTRACTOR SHALL SCRAPE, PATCH, SAND, FLOAT OUT AND REPAIR SURFACES TO PREPARE ALL WALLS, FLOORS, AND CEILING SURFACES TO RECEIVE NEW WORK. REVIEW, MECHANICAL, PLUMBING, AND ELECTRICAL DRAWINGS FOR ADDITIONAL NOTES.

2. UNLESS OTHERWISE NOTED, ALL FLOOR TILE SHALL BE CENTERED WITHIN THE ROOM. NO PIECES SHALL BE UNDER 4".

3. UNLESS OTHERWISE NOTED, ALL CEILING GRID AND LIGHT FIXTURES SHALL BE CENTERED WITHIN THE ROOM.

4. CONTRACTOR SHALL PROVIDE STONE, VAPOR BARRIER, AND EPOXY DOWEL INTO EXISTING CONCRETE SLABS AT 16" O.C. EACH WAY PRIOR TO POURING CONCRETE SLAB WHERE REMOVED.

5. CLEAN ALL SURFACES PRIOR TO SCHEDULING FINAL PUNCH AND RETURNING TO OWNER TO USE.

6. PROVIDE CONTINUOUS BLOCKING AS REQUIRED FOR ALL ACCESSORIES.

7. GENERAL CONTRACTOR SHALL PROVIDE ALL NECESSARY PROTECTIONS AND STRUCTURES REQUIRED TO MAINTAIN EGRESS ROUTES FROM EXISTING FACILITY DURING DEMOLITION AND THROUGHOUT NEW CONSTRUCTION. PROTECTIONS, INCLUDE (BUT ARE NOT LIMITED TO) TEMPORARY OVERHEAD PROTECTION, TEMPORARY PARTITION WALLS, FENCING, ACCESS DOORS, ETC.

*8. CONTRACTOR SHALL COORDINATE ANY NEW ROOF PENETRATIONS WITH EXISTING ROOF STRUCTURE PRIOR TO CUTTING HOLE THROUGH ROOF SURFACE.*

9. CONTRACTOR SHALL PERFORM PAINT COMPATIBILITY TEST ON EXISTING SURFACES PRIOR TO PERFORMING PAINT SCOPE TO ASSURE ADHESION TO EXISTING SUBSTRATES.

10. EXISTING BRICK TO BE CLEANED AND NOT TO RECEIVE PAINT. CONTRACTOR TO PROTECT WHEN PERFORMING PAINTING WORK.

11. ANY EXTENSIVE BRICK CRACKS ARE TO BE SEALED. BRICK MORTAR CRACKS ARE TO BE REPAINTED.

12. ANY EXISTING PAINTED HOLLOW METAL FRAMES AND EXISTING PAINTED HOLLOW METAL DOORS ARE TO BE REPAINTED. (SEE NOTE 1 ABOVE)

13. ANY COMPONENTS THAT CAN BE REMOVED WHERE PAINTING WILL OCCUR IS RECOMMENDED. IF COMPONENTS CANNOT BE REMOVED, THEN PROTECT THESE COMPONENTS. THESE COMPONENTS ARE NOT TO BE PAINTED.

14. ANY FIELD PAINTED STEEL SUCH AS HANDRAILS/GUARDRAILS, STEEL LINTELS, STEEL BRICK SUPPORT ANGLES, AND BOLLARDS ARE TO RECEIVE PAINT. (SEE NOTE 1 ABOVE)

15. PROTECT ALL ITEMS AT THE GROUND SUCH AS, BUT NOT LIMITED TO: VEGETATION, SIDEWALKS, MECHANICAL EQUIPMENT, BENCHES AND TRASH RECEPTACLES, ETC.

16. WHERE THE EXTERIOR GRADES HAVE BEEN RAISED AND THE INTERIOR FLOOR ELEVATION IS NOW LEVEL WITH THE REMAINDER OF THE BUILDING THE CONTRACTOR SHALL GROUT FILL THE BRICK WALL CAVITY TO THE NEW FINISH FLOOR ELEVATION. THEN PROVIDE NEW WALL CAVITY DRAINAGE WEEPS ABOVE FINISH FLOOR ELEVATION.

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STATE OF ALABAMA
PATRICK SWATEK
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**300 RENOVATION PLAN**

A1.02

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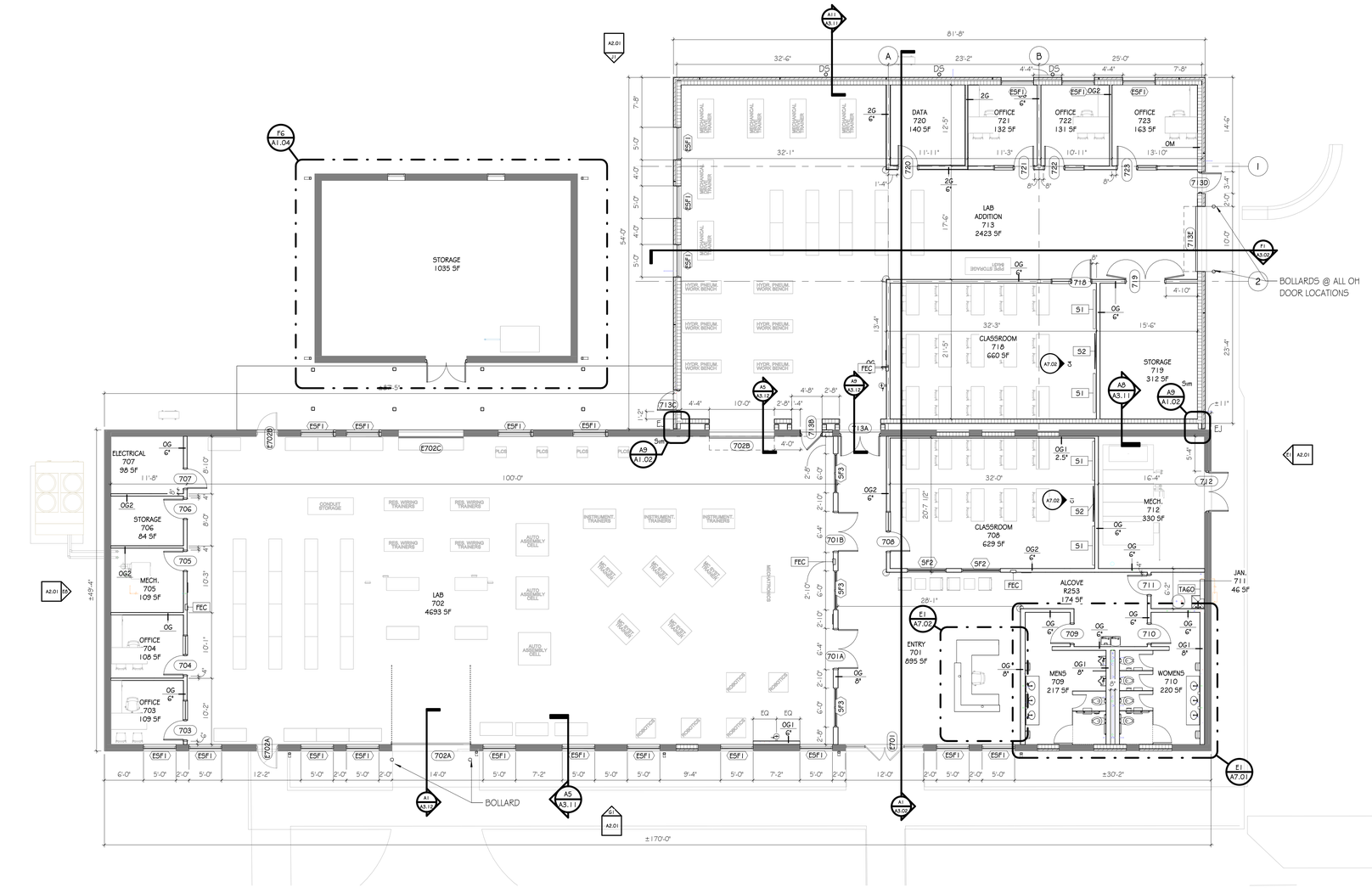


## GENERAL NOTES - RENOVATION

1. CONTRACTOR SHALL SCRAPE, PATCH, SAND, FLOAT OUT AND REPAIR SURFACES TO PREPARE ALL WALLS, FLOORS, AND CEILING SURFACES TO RECEIVE NEW WORK. REVIEW, MECHANICAL, PLUMBING, AND ELECTRICAL DRAWINGS FOR ADDITIONAL NOTES.

2. UNLESS OTHERWISE NOTED, ALL FLOOR TILE SHALL BE CENTERED WITHIN THE ROOM. NO PIECES SHALL BE UNDER 4".

3. UNLESS OTHERWISE NOTED, ALL CEILING GRID AND LIGHT FIXTURES SHALL BE CENTERED WITHIN THE ROOM.

4. CONTRACTOR SHALL PROVIDE STONE, VAPOR BARRIER, AND EPOXY DOWEL INTO EXISTING CONCRETE SLABS AT 16" O.C. EACH WAY PRIOR TO POURING CONCRETE SLAB WHERE REMOVED.

5. CLEAN ALL SURFACES PRIOR TO SCHEDULING FINAL PUNCH AND RETURNING TO OWNER TO USE.

6. PROVIDE CONTINUOUS BLOCKING AS REQUIRED FOR ALL ACCESSORIES.

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*8. CONTRACTOR SHALL COORDINATE ANY NEW ROOF PENETRATIONS WITH EXISTING ROOF STRUCTURE PRIOR TO CUTTING HOLE THROUGH ROOF SURFACE.*

9. CONTRACTOR SHALL PERFORM PAINT COMPATIBILITY TEST ON EXISTING SURFACES PRIOR TO PERFORMING PAINT SCOPE TO ASSURE ADHESION TO EXISTING SUBSTRATES.

10. EXISTING BRICK TO BE CLEANED AND NOT TO RECEIVE PAINT. CONTRACTOR TO PROTECT WHEN PERFORMING PAINTING WORK.

11. ANY EXTENSIVE BRICK CRACKS ARE TO BE SEALED. BRICK MORTAR CRACKS ARE TO BE REPAINTED.

12. ANY EXISTING PAINTED HOLLOW METAL FRAMES AND EXISTING PAINTED HOLLOW METAL DOORS ARE TO BE REPAINTED. (SEE NOTE 1 ABOVE)

13. ANY COMPONENTS THAT CAN BE REMOVED WHERE PAINTING WILL OCCUR IS RECOMMENDED. IF COMPONENTS CANNOT BE REMOVED, THEN PROTECT THESE COMPONENTS. THESE COMPONENTS ARE NOT TO BE PAINTED.

14. ANY FIELD PAINTED STEEL SUCH AS HANDRAILS/GUARDRAILS, STEEL LINTELS, STEEL BRICK SUPPORT ANGLES, AND BOLLARDS ARE TO RECEIVE PAINT. (SEE NOTE 1 ABOVE)

15. PROTECT ALL ITEMS AT THE GROUND SUCH AS, BUT NOT LIMITED TO: VEGETATION, SIDEWALKS, MECHANICAL EQUIPMENT, BENCHES AND TRASH RECEPTACLES, ETC.

16. WHERE THE EXTERIOR GRADES HAVE BEEN RAISED AND THE INTERIOR FLOOR ELEVATION IS NOW LEVEL WITH THE REMAINDER OF THE BUILDING THE CONTRACTOR SHALL GROUT FILL THE BRICK WALL CAVITY TO THE NEW FINISH FLOOR ELEVATION. THEN PROVIDE NEW WALL CAVITY DRAINAGE WEEPS ABOVE FINISH FLOOR ELEVATION.

PLAN NORTH

TRUE NORTH

# A1 BUILDING 700 - RENOVATION PLAN

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

GMC

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STATE OF ALABAMA
PATRICK SWATEK
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700 RENOVATION PLAN

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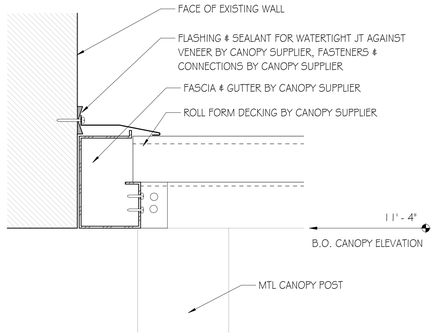
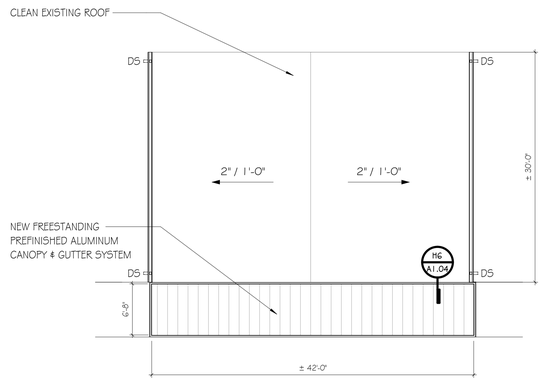
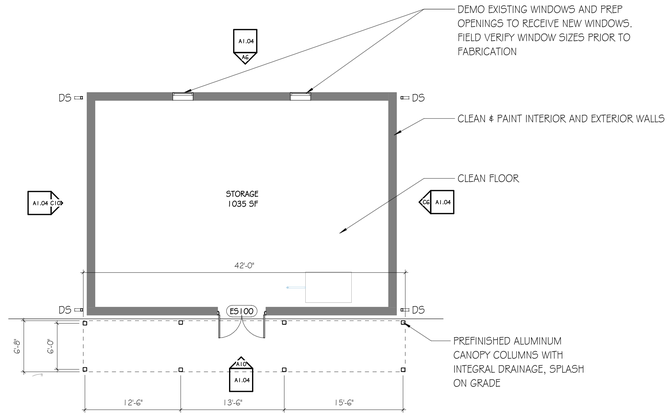



## H6 CANOPY TO EXISTING BUILDING
SCALE: 3" = 1'-0"




## H10 STORAGE BUILDING - ROOF PLAN
SCALE: 1/8" = 1'-0"




## F6 STORAGE BUILDING - RENOVATION PLAN
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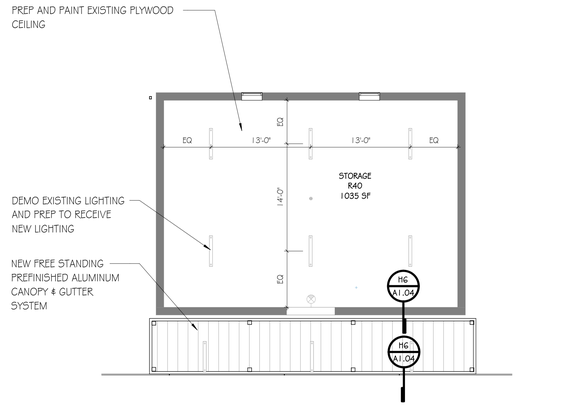


## F10 STORAGE BUILDING - REFLECTED CEILING PLAN
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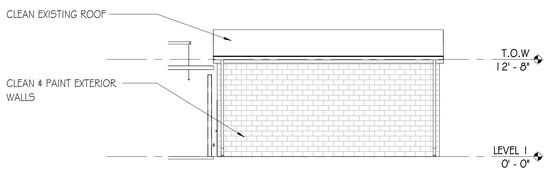
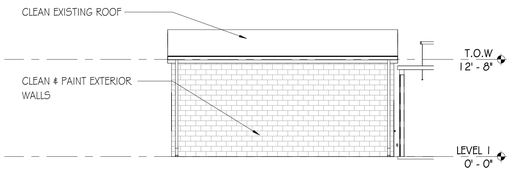
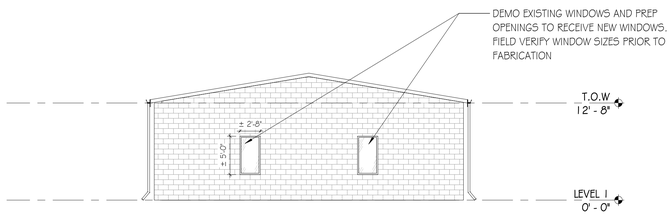


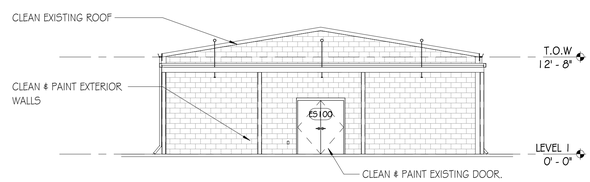

## C6 STORAGE BUILDING - EAST ELEVATION
SCALE: 1/8" = 1'-0"




## C10 STORAGE BUILDING - WEST ELEVATION
SCALE: 1/8" = 1'-0"




## A6 STORAGE BUILDING - NORTH ELEVATION
SCALE: 1/8" = 1'-0"




## A10 STORAGE BUILDING - SOUTH ELEVATION
SCALE: 1/8" = 1'-0"

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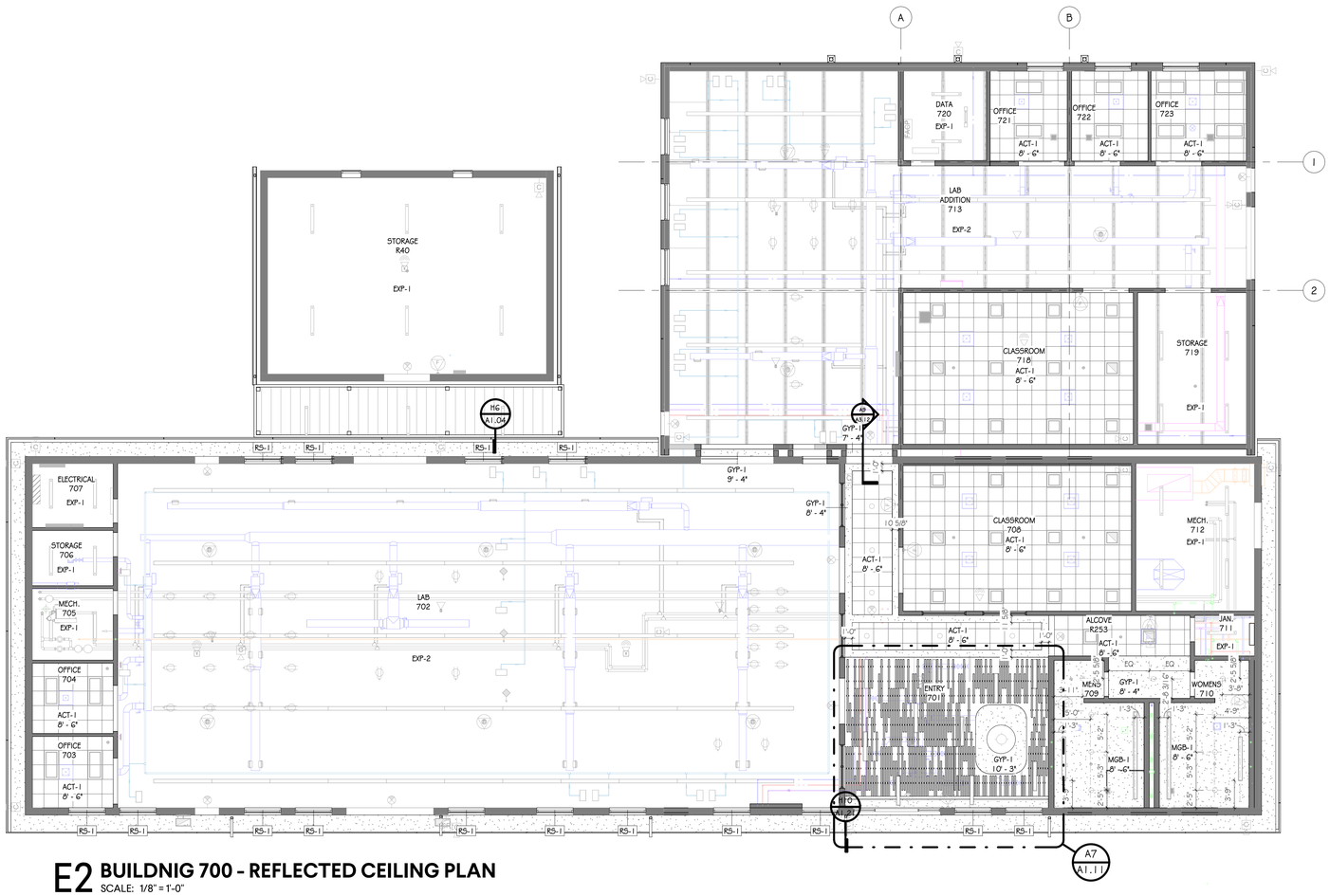
GMC ABHM250047

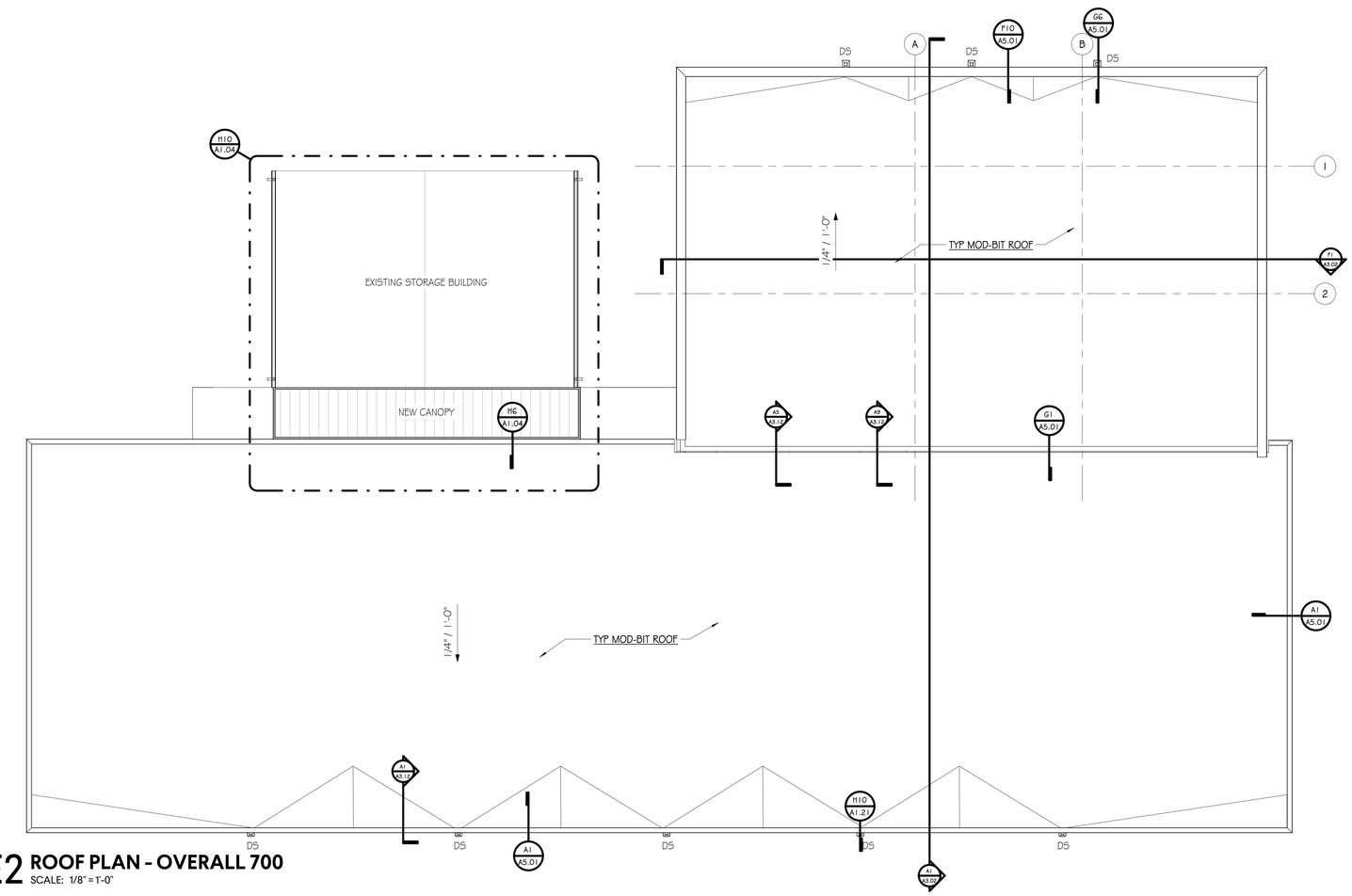
STATE OF ALABAMA
PATRICK SWATEK
8969
REGISTERED ARCHITECT

**STORAGE BUILDING**
**PLAN, RCP & ROOF PLAN**

A1.04

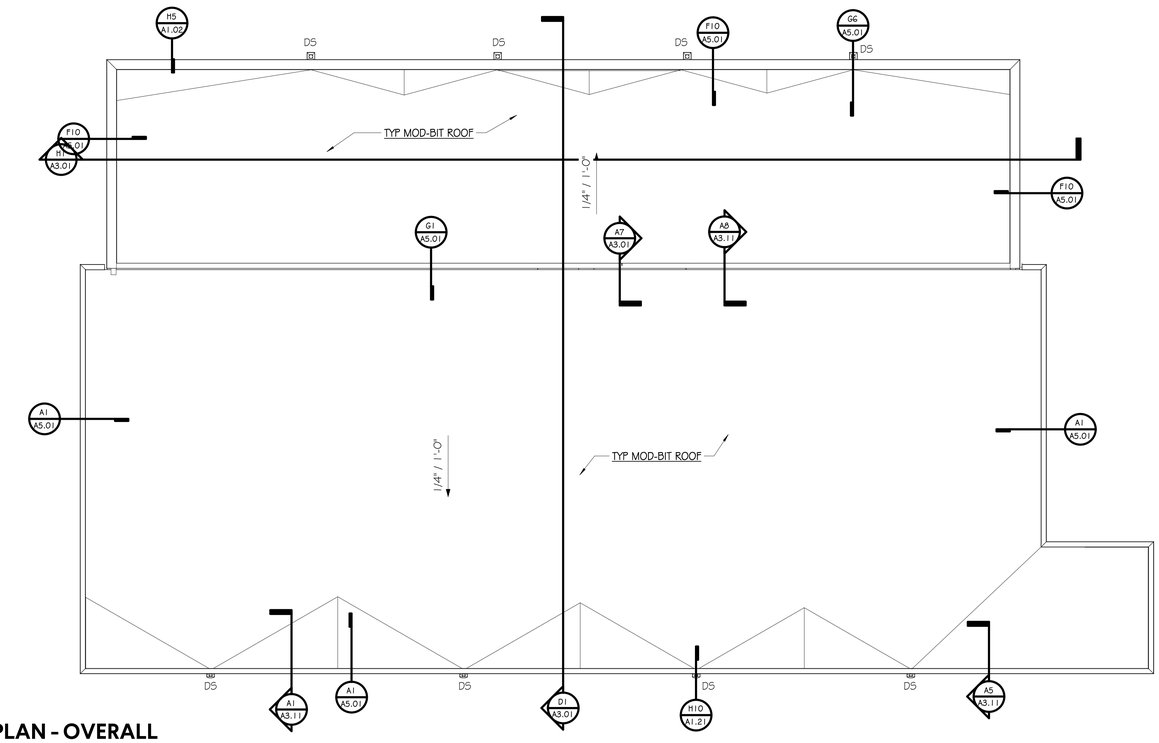
5/27/2026 4:16:26 PM TEMPLATE VERSION: 2025.1


STORAGE R40
EXP-1
ITO A1.04
RS-1
ELECTRICAL 707
EXP-1
STORAGE 706
EXP-1
MECH. 705
EXP-1
OFFICE 704
ACT-1 8' - 6"
OFFICE 703
ACT-1 8' - 6"
LAB 702
EXP-2
GYP-1 9' - 4"
GYP-1 8' - 4"
GYP-1 7' - 4"
A8 A3.12
DATA 720 EXP-1
OFFICE 721
OFFICE 722
OFFICE 723
ACT-1 8' - 6"
LAB ADDITION 713
EXP-2
CLASSROOM 718 ACT-1 8' - 6"
STORAGE 719
EXP-1
CLASSROOM 708 ACT-1 8' - 6"
MECH. 712 EXP-1
ACT-1 8' - 6"
10 5/8"
ALCOVE R253 ACT-1 8' - 6"
JAN. 711 EXP-1
ENTRY 701
MENS 709
WOMENS 710
GYP-1 8' - 4"
GYP-1 10' - 3"
MGB-1 8' - 6"
ITO A1.01
A7 A1.11
1'-0" 1'-0" 1'-0" 



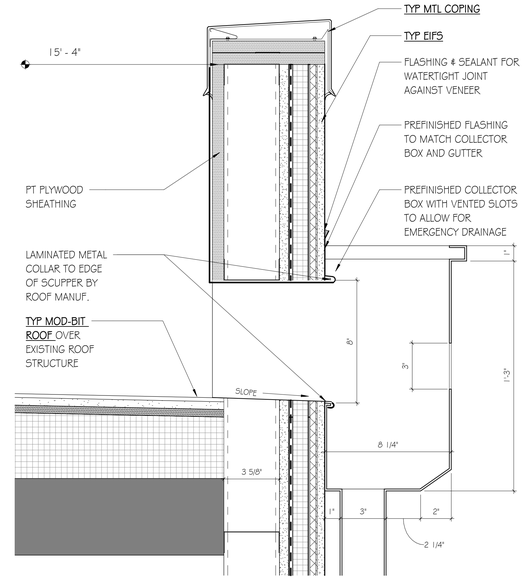

PLAN NORTH TRUE NORTH

## E2 ROOF PLAN - OVERALL 700
SCALE: 1/8" = 1'-0"

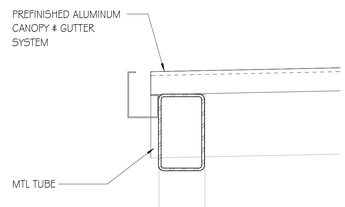



PLAN NORTH TRUE NORTH

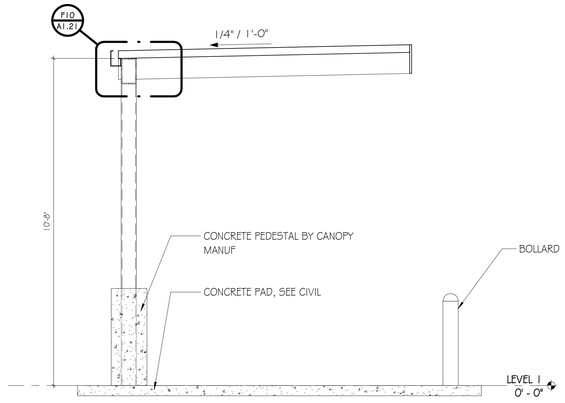
## A2 ROOF PLAN - OVERALL
SCALE: 1/8" = 1'-0"



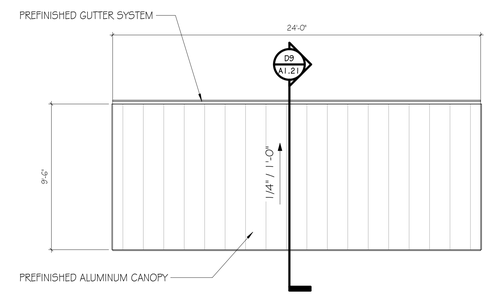

## H10 SCUPPER @ EIFS
SCALE: 3" = 1'-0"




## F10 STORAGE CANOPY DETAIL
SCALE: 11/2" = 1'-0"




## D9 SITE STORAGE CANOPY SECTION
SCALE: 1/2" = 1'-0"




## A9 SITE STORAGE CANOPY
SCALE: 1/4" = 1'-0"

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ROOF PLANS

A1.21

5/27/2026 4:16:33 PM TEMPLATE VERSION: 2025.1

## GENERAL NOTES - EXTERIOR ELEVATIONS

1. CONTRACTOR SHALL SCRAPE, PATCH, SAND, FLOAT OUT, AND REPAIR ANY AND ALL SURFACES THAT ARE TO RECEIVE PAINT. THIS INCLUDES, BUT NOT LIMITED TOO: PAINTED CONCRETE, PAINTED E.I.F.S., PAINTED STUCCO, AND PAINTED STEEL.

2. EXISTING BRICK TO BE CLEANED AND NOT TO RECEIVE PAINT. CONTRACTOR TO PROTECT BRICK WHEN PERFORMING PAINTING WORK.

3. ANY EXTENSIVE BRICK CRACKS ARE TO BE SEALED. BRICK MORTAR CRACKS ARE TO BE REPAINTED. NOTIFY ARCHITECT IF OTHER CRACKS ARE FOUND ON OTHER BUILDINGS IN THIS SCOPE OF WORK.

4. EXISTING PREFINISHED STOREFRONT SYSTEMS SUCH AS ANODIZED, BRONZE, OR OTHER ARE NOT TO RECEIVE PAINT. CONTRACTOR TO PROTECT WHEN PERFORMING WORK.

5. ANY EXISTING PAINTED HOLLOW METAL FRAMES AND EXISTING PAINTED HOLLOW METAL DOORS ARE TO BE PAINTED. (SEE NOTE 1 ABOVE)

6. ANY PLACARD SIGNAGE TO BE REMOVED, CLEANED, AND KEPT, PRIOR TO WALL CLEANING AND PERFORMANCE OF WORK. THESE SIGNS ARE TO THEN BE PLACED BACK AND AFFIXED IN THEIR ORIGINAL POSITIONS.

7. ANY COMPONENTS THAT CAN BE REMOVED WHERE PAINTING WILL OCCUR IS RECOMMENDED. IF COMPONENTS CANNOT BE REMOVED, THEN PROTECT THESE COMPONENTS. THESE COMPONENTS ARE NOT TO BE PAINTED.

8. ANY FIELD PAINTED STEEL SUCH AS HANDRAILS/GUARDRAILS, STEEL LINTELS, STEEL BRICK SUPPORT ANGLES, AND BOLLARDS ARE TO RECEIVE PAINT. (SEE NOTE 1 ABOVE)

9. PROTECT ALL ITEMS AT THE GROUND SUCH AS, BUT NOT LIMITED TO: VEGETATION, SIDEWALKS, MECHANICAL EQUIPMENT, BENCHES, AND TRASH RECEPTACLES, ETC.

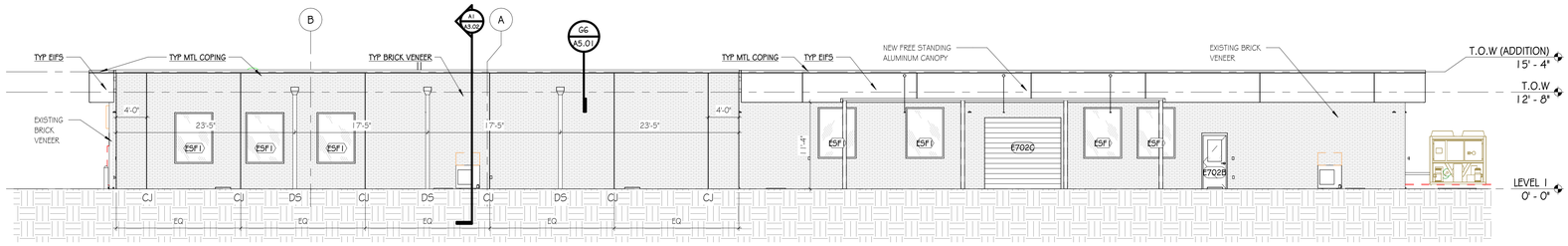
10. CONTRACTOR SHALL PERFORM PAINT COMPATIBILITY TEST ON EXISTING SURFACES PRIOR TO PERFORMING PAINT SCOPE TO ASSURE ADHESION TO EXISTING SURFACES.

11. CLEAN ALL SURFACES PRIOR TO SCHEDULING FINAL PUNCH AND RETURN TO OWNERS USE.

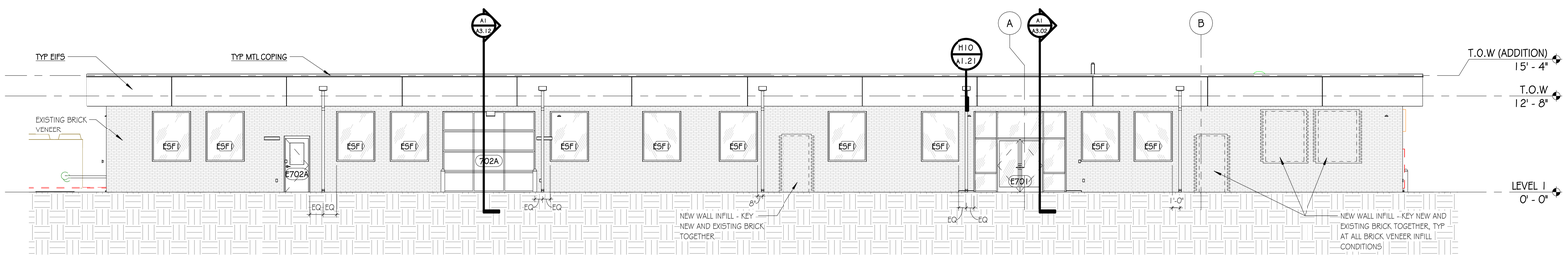
12. DEMO & REPLACE EXTERIOR LIGHTING PER ELECTRICAL DRAWINGS.

13. KEY IN ALL NEW OPENINGS IN BRICK VENEER, AS WELL AS WALL INFILL. REMOVE ALL SILLS FROM WINDOWS TO BE REMOVED.

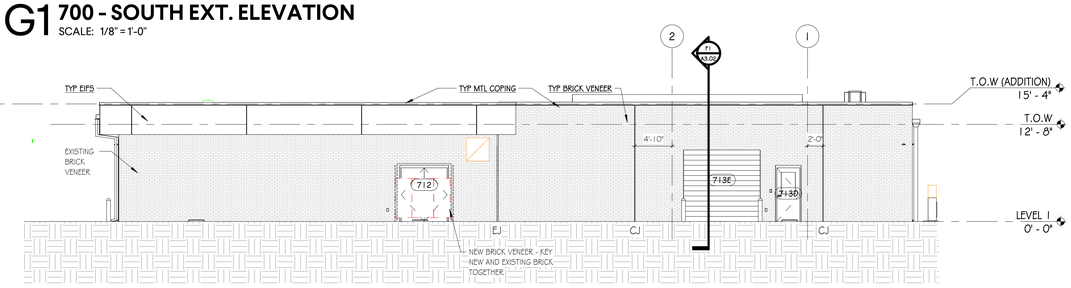
14. REMOVE EXTERIOR CANOPIES ABOVE ALL DOORS SCHEDULED TO BE DEMOLISHED AND FILLED IN.

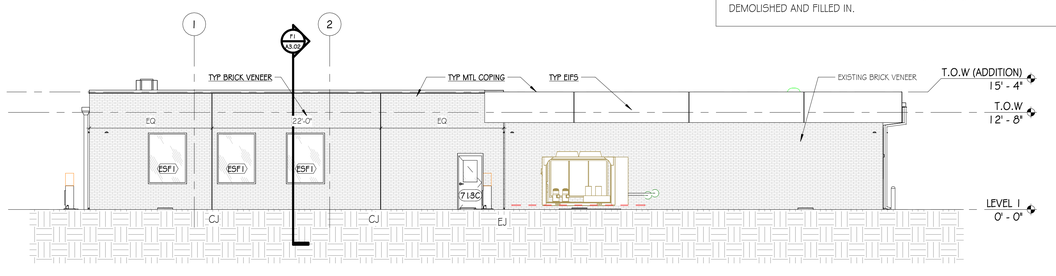



## J1 700 - NORTH EXT. ELEVATION
SCALE: 1/8" = 1'-0"

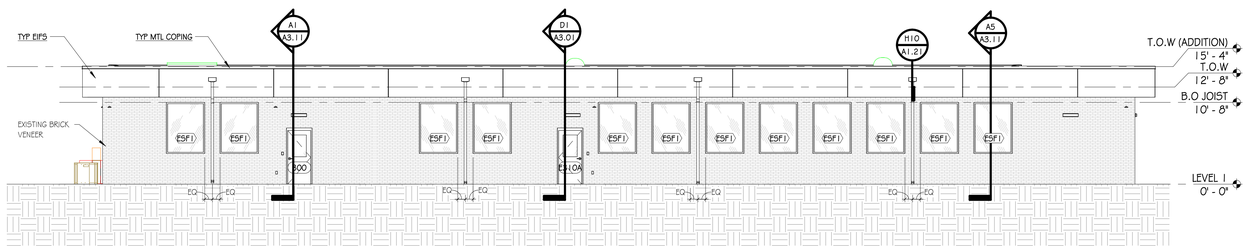



## G1 700 - SOUTH EXT. ELEVATION
SCALE: 1/8" = 1'-0"

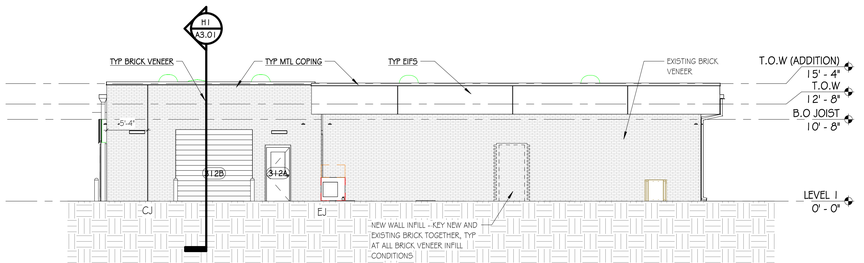


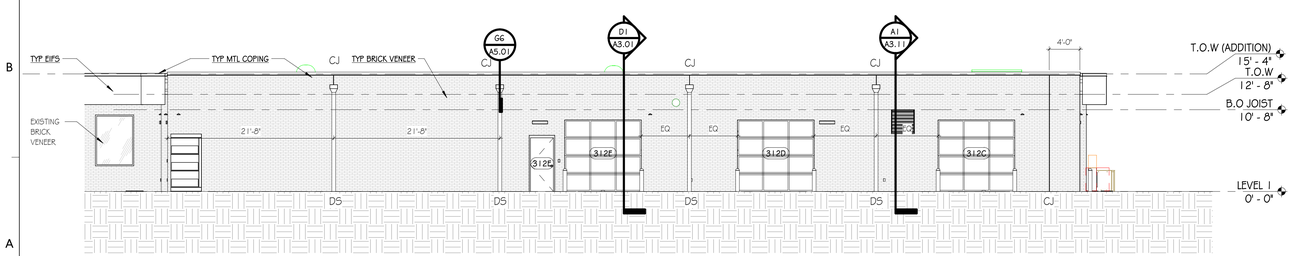

## E1 700 - EAST EXT. ELEVATION
SCALE: 1/8" = 1'-0"




## E8 700 - WEST EXT. ELEVATION
SCALE: 1/8" = 1'-0"




## C1 300 - SOUTH EXT. ELEVATION
SCALE: 1/8" = 1'-0"




## C8 300 - WEST EXT. ELEVATION
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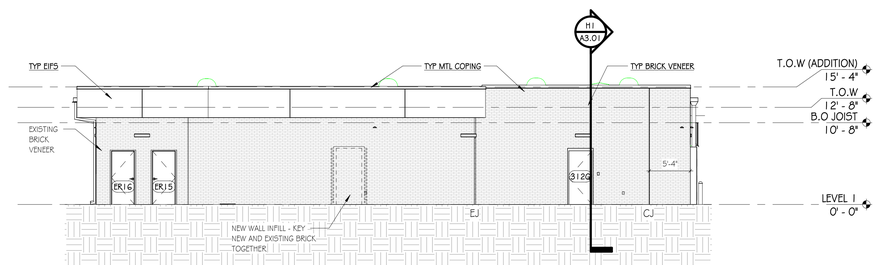


## A1 300 - NORTH EXT. ELEVATION
SCALE: 1/8" = 1'-0"

## A8 300 - EAST EXT. ELEVATION
SCALE: 1/8" = 1'-0"


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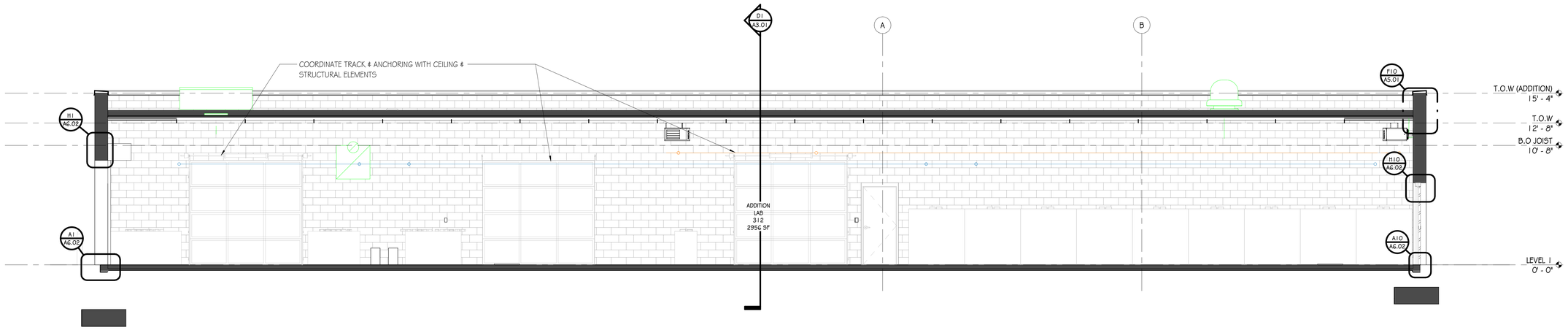
EXTERIOR ELEVATIONS

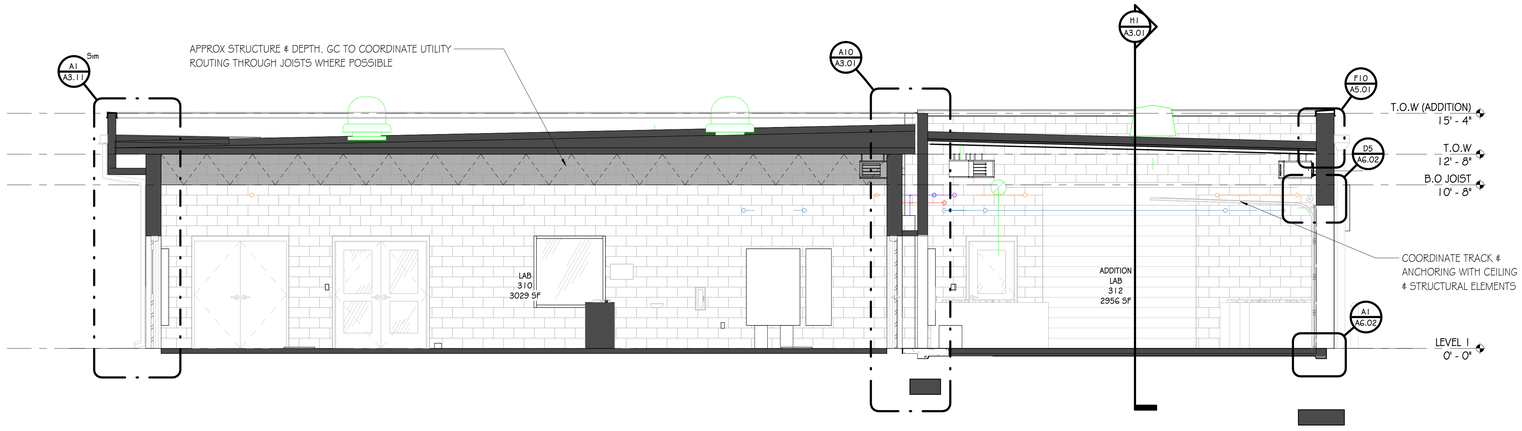
A2.01

5/27/2026 4:16:41 PM TEMPLATE VERSION: 2025.1



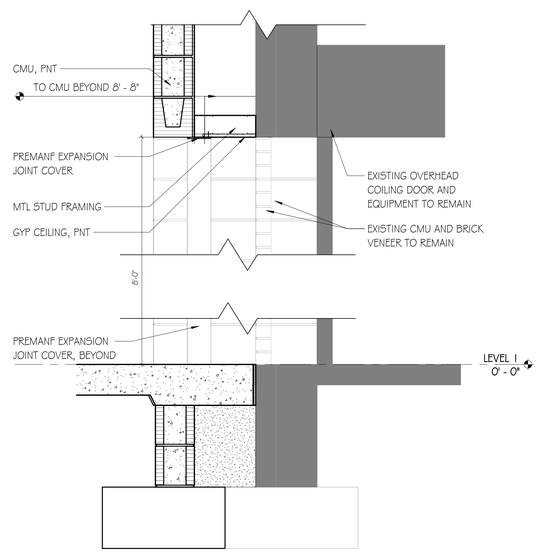

# H1 300 - EAST-WEST SECTION

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



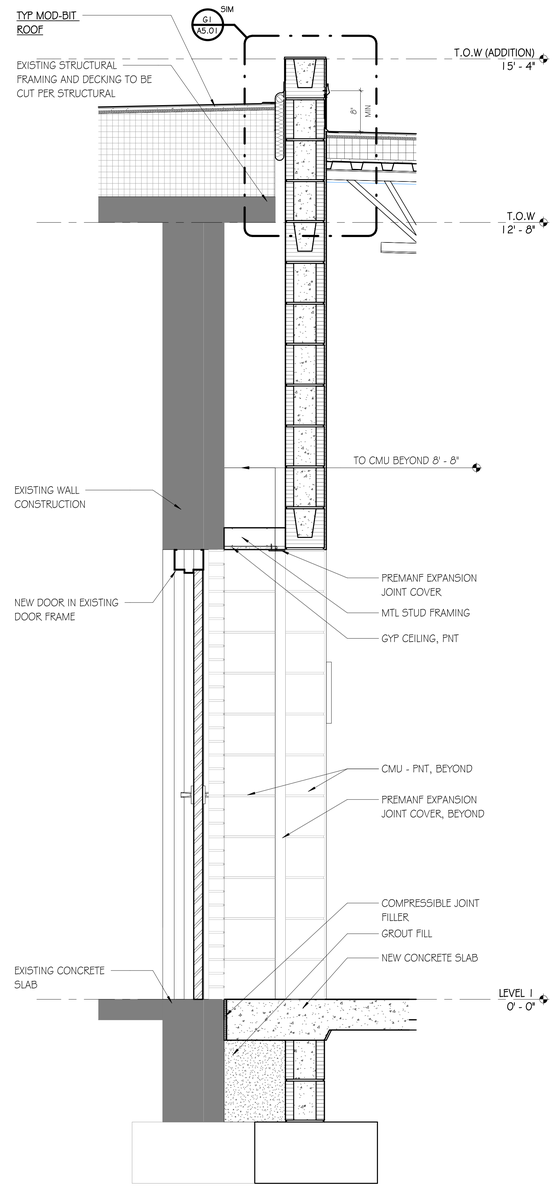

# D1 300 NORTH-SOUTH SECTION

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




# A7 EJ SECTION - DOORWAYS

SCALE: 1" = 1'-0"




# A10 EJ SECTION

SCALE: 1" = 1'-0"

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**300 BUILDING - BUILDING SECTIONS**

A3.01

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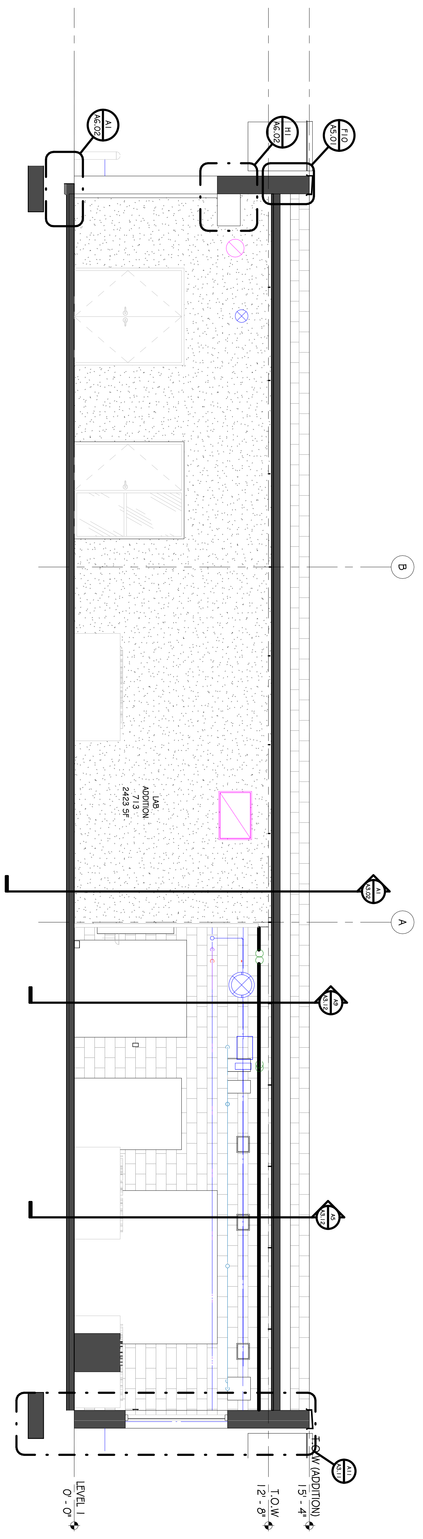
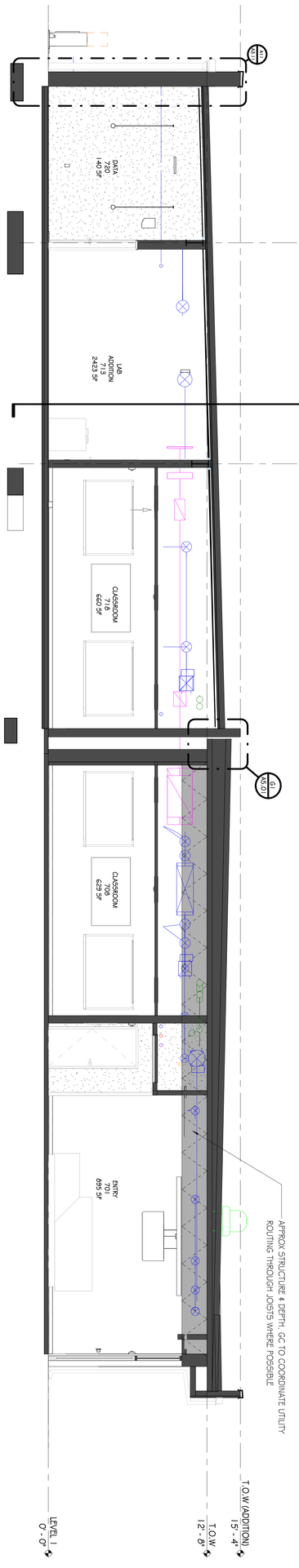
## F1 BUILDING 700 - EAST-WEST SECTION

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




## A1 700 NORTH-SOUTH SECTION

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




**700 BUILDING - BUILDING SECTIONS**

A3.02

STATE OF ALABAMA PATRICK SIMMONS 8969 REGISTERED ARCHITECT

**REID STATE CC WELDING & INDUSTRIAL RENO.**

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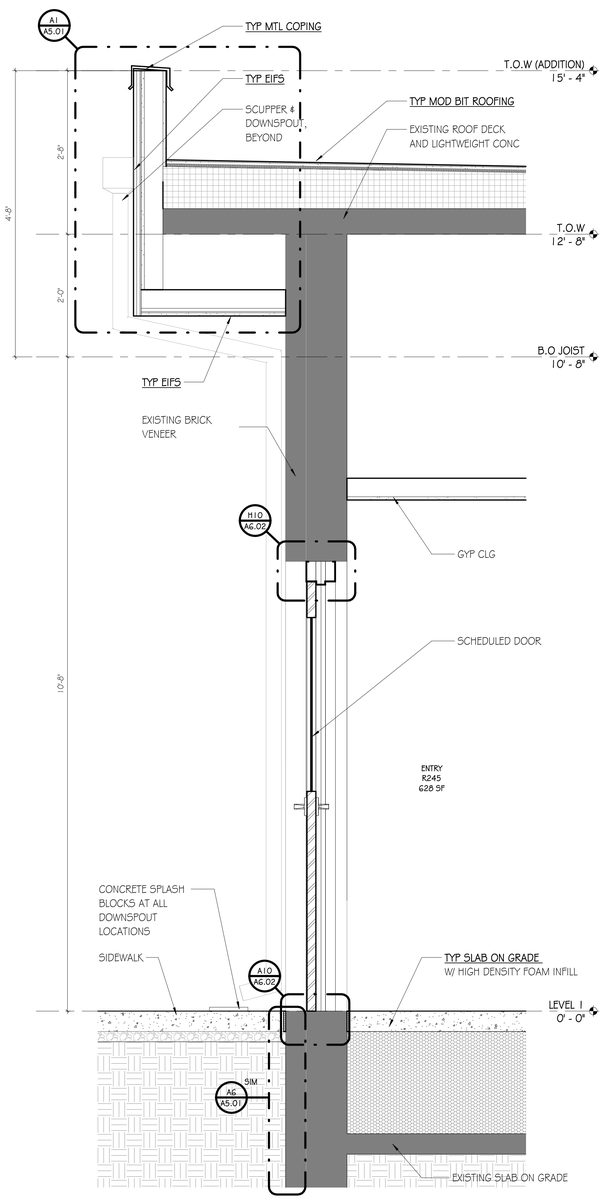


## A1 WALL SECTION
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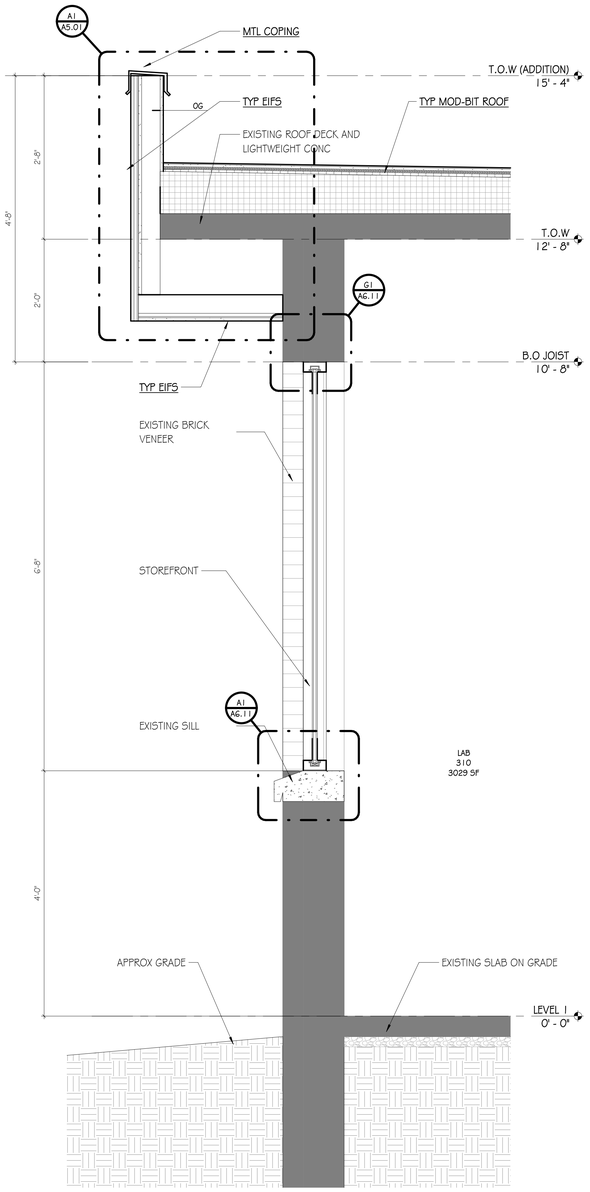
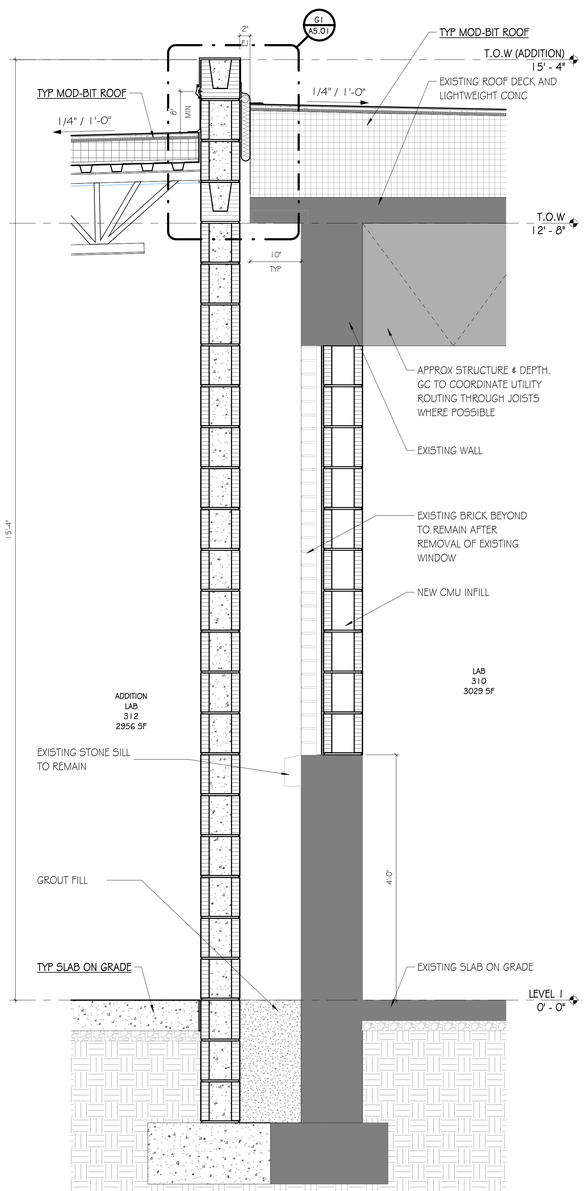



## A5 WALL SECTION
SCALE: 1" = 1'-0"




## A8 WALL SECTION @ EJ INFILL
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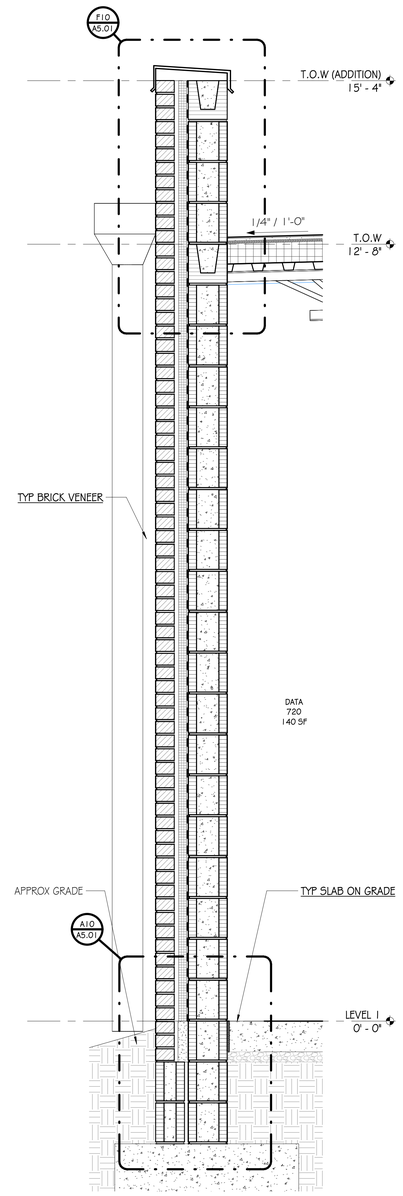


## A11 WALL SECTION
SCALE: 1" = 1'-0"

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WALL SECTIONS

A3.11

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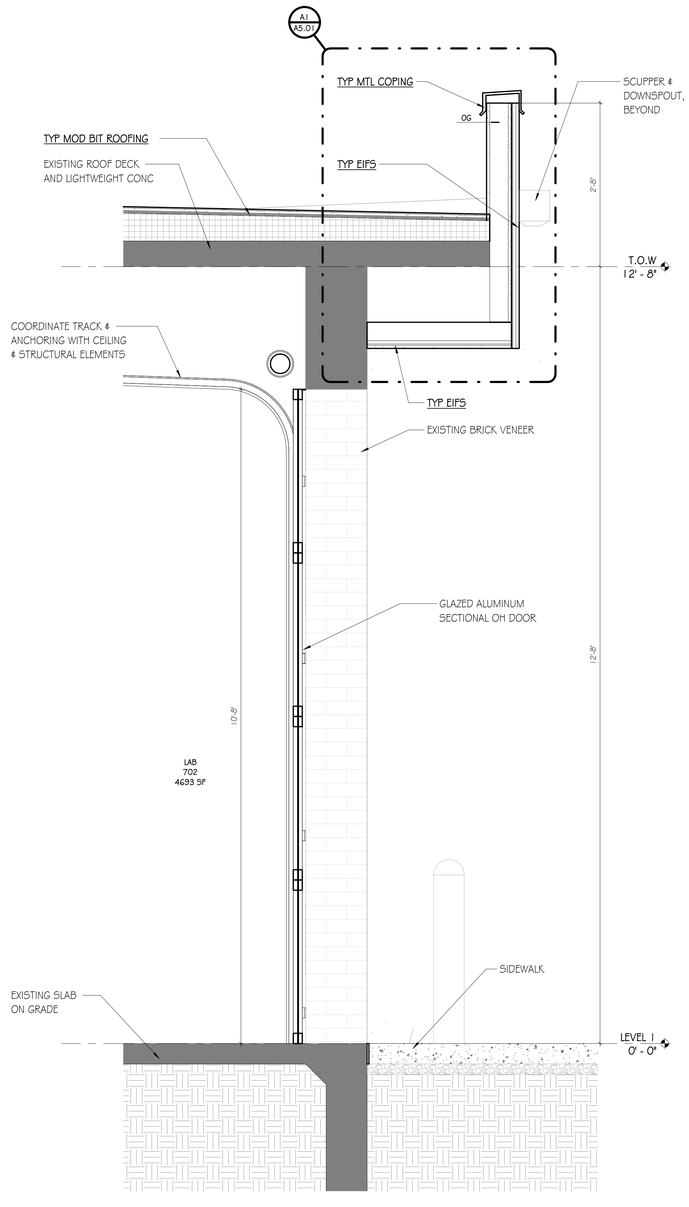
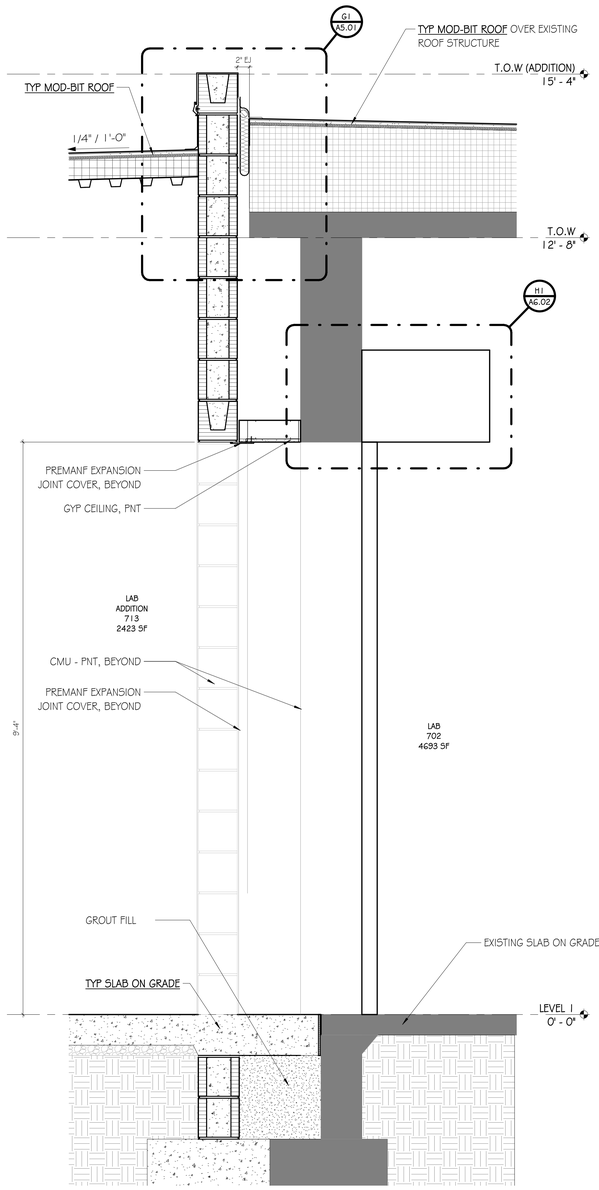



## A1 WALL SECTION
SCALE: 1" = 1'-0"




## A5 WALL SECTION
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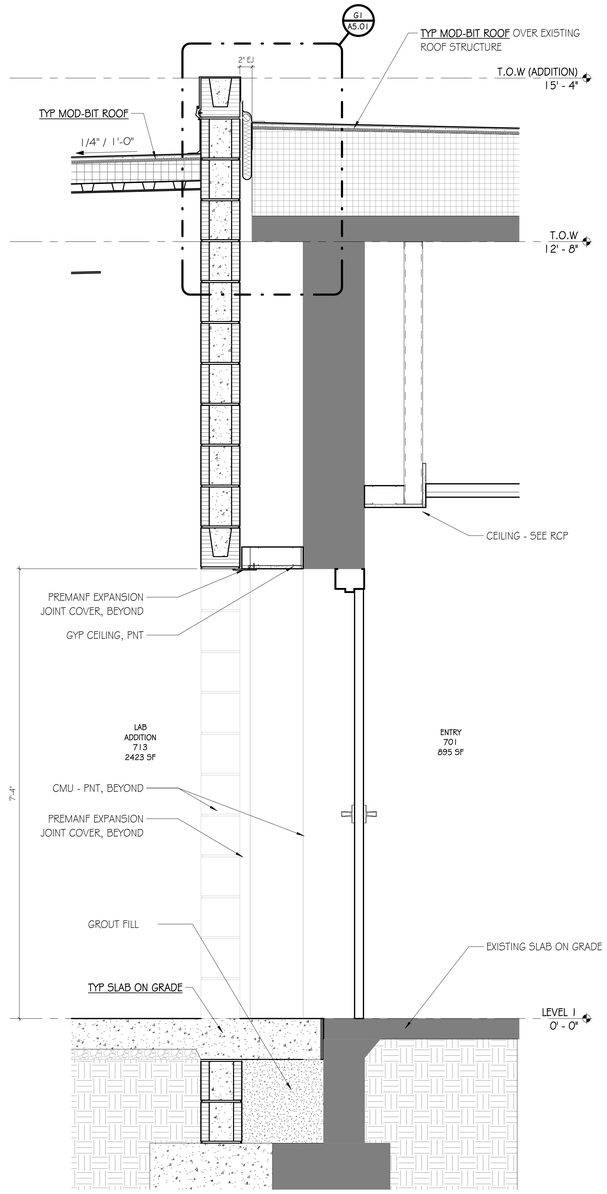


## A9 WALL SECTION
SCALE: 1" = 1'-0"

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8969
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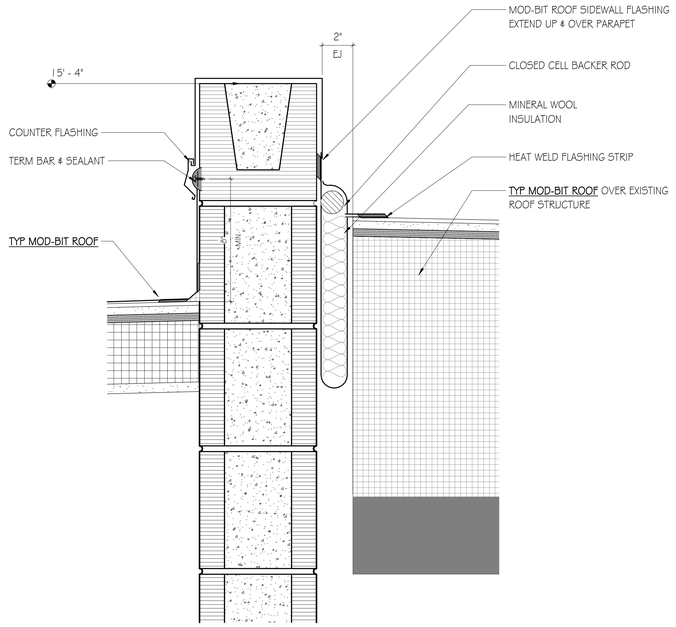
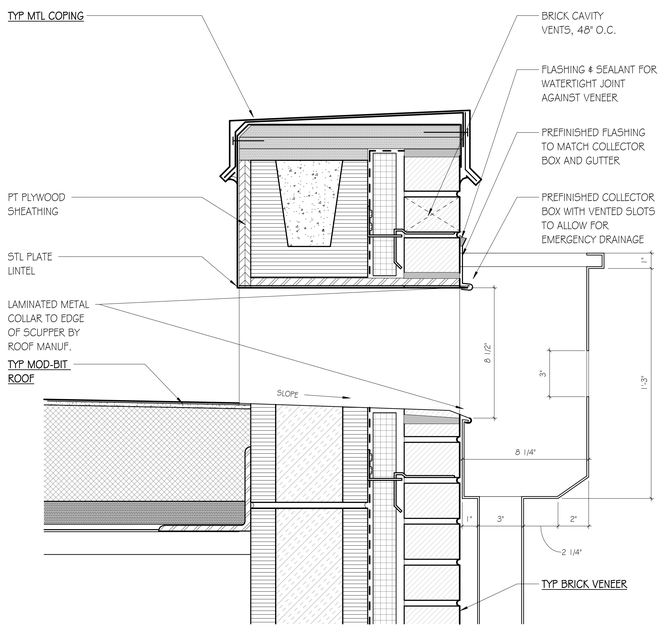
WALL SECTIONS

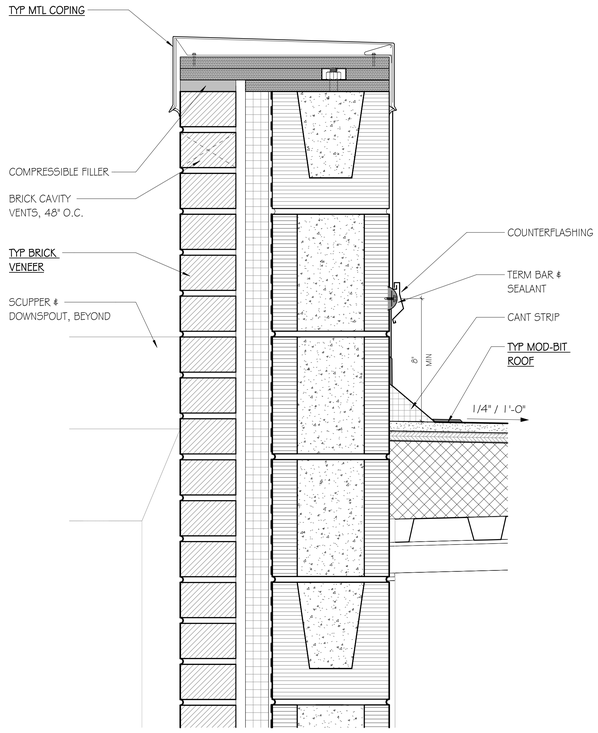
A3.12



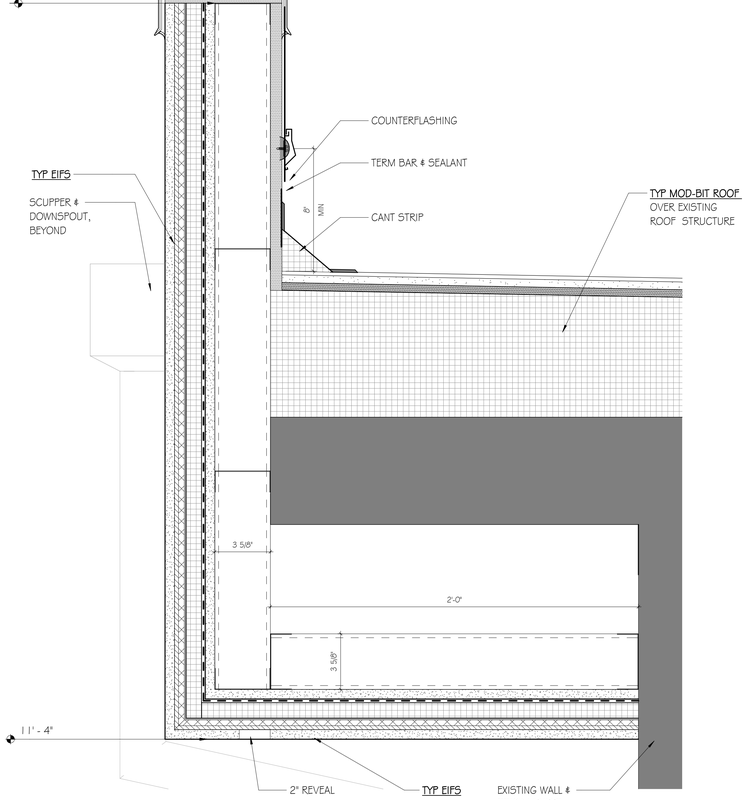

## G1 EXPANSION JOINT @ ROOF
SCALE: 3" = 1'-0"




## G6 SCUPPER DETAIL
SCALE: 3" = 1'-0"




## F10 BRICK @ PARAPET
SCALE: 3" = 1'-0"




## A1 SOFFIT DETAIL
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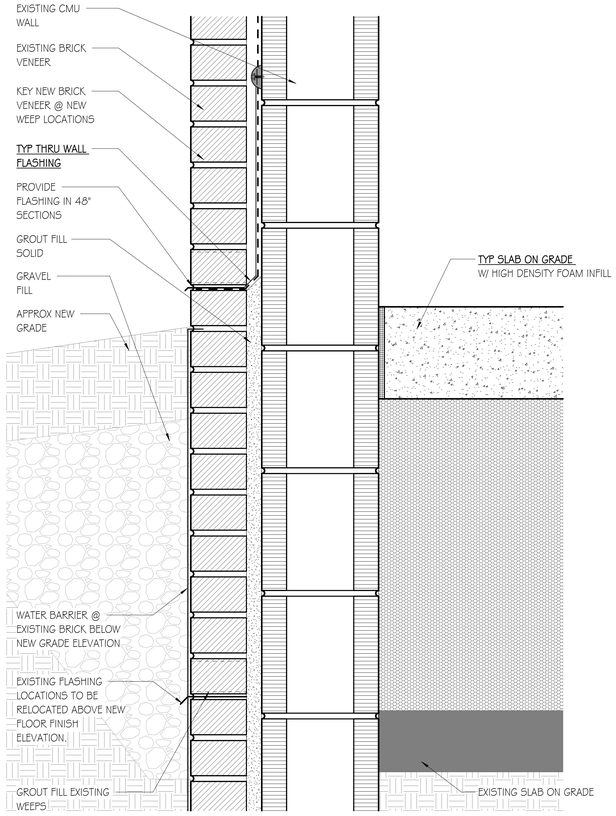
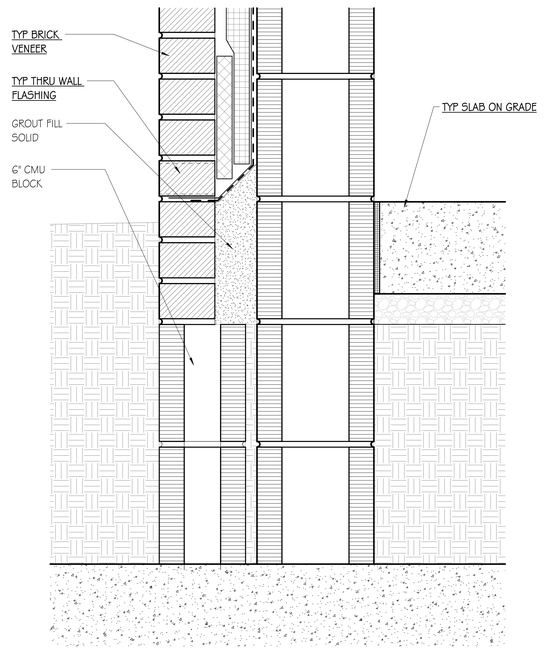



## A6 BRICK @ NEW SLAB ELEVATION
SCALE: 3" = 1'-0"




## A10 BRICK @ FOUNDATION
SCALE: 3" = 1'-0"

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ISSUE | DATE
IFB SET | 05/27/2026

DRAWN BY: Author
CHECKED BY: Checker

**REID STATE CC WELDING & INDUSTRIAL RENO.**
100 AL-83, Evergreen, AL 36401

ACCS 2025 162 RSTCC
GMC ABHM250047

STATE OF ALABAMA
PATRICK SWATEK
8969
REGISTERED ARCHITECT

SECTION DETAILS

A5.01

5/27/2026 4:16:50 PM TEMPLATE VERSION: 2025.1

# DOOR SCHEDULE-BUILDING 300

| LOCATION | | SIZE | | | DOOR | | | FRAME | | | HARDWARE | | | | | DETAILS | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | ELEC. COORD. | | | | | | | | |
| DOOR NUMBER | ROOM NAME | WIDTH | HT | THK | DOOR TYPE | MAT'L | GLASS OR LOUVER TYPE | FRAME TYPE | MAT'L | GLASS TYPE | HARDWARE SET NO. | HOLD OPEN | FIRE ALARM INTERFACE | ACCESS CONTROL | HEAD | JAMB | SILL | FIRE RATING | NUMBERED NOTES |
| 300 | ENTRY | 3' - 0" | 7' - 0" | 13/4" | HG | HM | G1 | F13 | HM | | | | | | H10/A6.02 | D10/A6.02 | A10/A6.02 | | |
| 301 | ENTRY | 3' - 0" | 7' - 0" | 13/4" | F | WD | | F10 | HM | G1 | | | | | H6/A6.02 | H8/A6.02 | | | |
| 302 | OFFICE | 3' - 0" | 7' - 0" | 13/4" | F | WD | | F1 | HM | | | | | | H6/A6.02 | H8/A6.02 | | | |
| 303 | ENTRY | 2' - 8" | 7' - 0" | 13/4" | F | WD | | F1 | HM | | | | | | H6/A6.02 | H8/A6.02 | | | |
| 304 | MENS | 3' - 0" | 7' - 0" | 13/4" | F | WD | | F1 | HM | | | | | | H6/A6.02 | H8/A6.02 | | | |
| 305 | WOMENS | 3' - 0" | 7' - 0" | 13/4" | F | WD | | F1 | HM | | | | | | H6/A6.02 | H8/A6.02 | | | |
| 306 | OFFICE | 3' - 0" | 7' - 0" | 13/4" | F | WD | | F10 | HM | G1 | | | | | H6/A6.02 | H8/A6.02 | | | |
| 307 | CLASSROOM | 3' - 0" | 7' - 0" | 13/4" | F | WD | | F1 | HM | | | | | | H6/A6.02 | H8/A6.02 | | | |
| 308 | DATA | 3' - 0" | 7' - 0" | 13/4" | F | WD | | F1 | HM | | | | | | H6/A6.02 | H8/A6.02 | | 90 MIN | |
| 309 | LAB | 6' - 0" | 7' - 0" | 13/4" | F | WD | | F13 | HM | | | | | | D8/A6.02 | A8/A6.02 | | | |
| 310 | CORRIDOR | 6' - 0" | 7' - 0" | 13/4" | FG2 | WD | G1 | F13 | HM | | | | | | D8/A6.02 | A8/A6.02 | | | |
| 312A | ADDITION LAB | 3' - 0" | 7' - 0" | 13/4" | HG | HM | G1 | F13 | HM | | | | | | H10/A6.02 | D10/A6.02 | A10/A6.02 | | |
| 312B | ADDITION LAB | 10' - 0" | 9' - 4" | 3/4" | RS | | | | | | | | | | H1/A6.02 | D1/A6.02 | A1/A6.12 | | 01 |
| 312C | ADDITION LAB | 10' - 0" | 9' - 4" | 13/4" | OS | | | | | | | | | | D5/A6.02 | A5/A6.02 | A1/A6.12 | | 02 |
| 312D | ADDITION LAB | 10' - 0" | 9' - 4" | 13/4" | OS | | | | | | | | | | D5/A6.02 | A5/A6.02 | A1/A6.12 | | 02 |
| 312E | ADDITION LAB | 10' - 0" | 9' - 4" | 13/4" | OS | | | | | | | | | | D5/A6.02 | A5/A6.02 | A1/A6.12 | | 02 |
| 312F | ADDITION LAB | 3' - 0" | 7' - 0" | 13/4" | F | HM | | F13 | HM | | | | | | H10/A6.02 | D10/A6.02 | A10/A6.02 | | |
| 312G | ADDITION LAB | 3' - 0" | 7' - 0" | 13/4" | F | HM | | F13 | HM | | | | | | H10/A6.02 | D10/A6.02 | A10/A6.02 | | |

# DOOR SCHEDULE-BUILDING 700

| LOCATION | | SIZE | | | DOOR | | | FRAME | | | HARDWARE | | | | | DETAILS | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | ELEC. COORD. | | | | | | | | |
| DOOR NUMBER | ROOM NAME | WIDTH | HT | THK | DOOR TYPE | MAT'L | GLASS OR LOUVER TYPE | FRAME TYPE | MAT'L | GLASS TYPE | HARDWARE SET NO. | HOLD OPEN | FIRE ALARM INTERFACE | ACCESS CONTROL | HEAD | JAMB | SILL | FIRE RATING | NUMBERED NOTES |
| 701A | ENTRY | 6' - 0" | 7' - 0" | 13/4" | FG2 | WD | G1 | F1 | HM | | | | | | H6/A6.02 | H8/A6.02 | | | |
| 701B | LAB | 6' - 0" | 7' - 0" | 13/4" | FG2 | WD | G1 | F1 | HM | | | | | | H6/A6.02 | H8/A6.02 | | | |
| 702A | LAB | 12' - 0" | 10' - 8" | 13/4" | OS | | | | | | | | | | D5/A6.02 | A5/A6.02 | A1/A6.12 | | 02 |
| 702B | LAB | 10' - 0" | 9' - 4" | 3/4" | RS | | | | | | | | | | H1/A6.02 | D1/A6.02 | A1/A6.12 | | 01 |
| 703 | OFFICE | 3' - 0" | 7' - 0" | 13/4" | F | WD | | F10 | HM | G1 | | | | | H6/A6.02 | H8/A6.02 | | | |
| 704 | OFFICE | 3' - 0" | 7' - 0" | 13/4" | F | WD | | F10 | HM | G1 | | | | | H6/A6.02 | H8/A6.02 | | | |
| 705 | MECH. | 3' - 0" | 7' - 0" | 13/4" | F | WD | | F1 | HM | | | | | | H6/A6.02 | H8/A6.02 | | | |
| 706 | STORAGE | 3' - 0" | 7' - 0" | 13/4" | F | WD | | F1 | HM | | | | | | H6/A6.02 | H8/A6.02 | | | |
| 707 | LAB | 3' - 0" | 7' - 0" | 13/4" | F | WD | | F1 | HM | | | | | | H6/A6.02 | H8/A6.02 | | | |
| 708 | ENTRY | 3' - 0" | 7' - 0" | 13/4" | F | WD | | F10 | HM | G1 | | | | | H6/A6.02 | H8/A6.02 | | | |
| 709 | MENS | 3' - 0" | 7' - 0" | 13/4" | F | WD | | F1 | HM | | | | | | H6/A6.02 | H8/A6.02 | | | |
| 710 | ALCOVE | 3' - 0" | 7' - 0" | 13/4" | F | WD | | F1 | HM | | | | | | H6/A6.02 | H8/A6.02 | | | |
| 711 | ALCOVE | 3' - 0" | 7' - 0" | 13/4" | F | WD | | F1 | HM | | | | | | H6/A6.02 | H8/A6.02 | | | |
| 712 | MECH. | 6' - 0" | 7' - 0" | 13/4" | F | HM | | F1 | HM | | | | | | H6/A6.02 | H8/A6.02 | | | |
| 713A | ENTRY | 6' - 0" | 7' - 0" | 13/4" | F | WD | | F13 | HM | | | | | | H10/A6.02 | D10/A6.02 | A10/A6.02 | | |
| 713B | LAB | 3' - 0" | 7' - 0" | 13/4" | F | WD | | F13 | HM | | | | | | H10/A6.02 | D10/A6.02 | A10/A6.02 | | |
| 713C | LAB ADDITION | 3' - 0" | 7' - 0" | 13/4" | HG | HM | G1 | F13 | HM | | | | | | H10/A6.02 | D10/A6.02 | A10/A6.02 | | |
| 713D | LAB ADDITION | 3' - 0" | 7' - 0" | 13/4" | HG | HM | G1 | F13 | HM | | | | | | H10/A6.02 | D10/A6.02 | A10/A6.02 | | |
| 713E | LAB ADDITION | 10' - 0" | 9' - 4" | 3/4" | RS | | | | | | | | | | H1/A6.02 | D1/A6.02 | A1/A6.12 | | 01 |
| 718 | CLASSROOM | 3' - 0" | 7' - 0" | 13/4" | F | WD | | F10 | HM | G1 | | | | | H6/A6.02 | H8/A6.02 | | | |
| 719 | STORAGE | 6' - 0" | 7' - 0" | 13/4" | F | WD | | F1 | HM | | | | | | H6/A6.02 | H8/A6.02 | | | |
| 720 | DATA | 3' - 0" | 7' - 0" | 13/4" | F | WD | | F1 | HM | | | | | | H6/A6.02 | H8/A6.02 | | 90 MIN | |
| 721 | LAB ADDITION | 3' - 0" | 7' - 0" | 13/4" | F | WD | | F10 | HM | G1 | | | | | H6/A6.02 | H8/A6.02 | | | |
| 722 | LAB ADDITION | 3' - 0" | 7' - 0" | 13/4" | F | WD | | F10 | HM | G1 | | | | | H6/A6.02 | H8/A6.02 | | | |
| 723 | LAB ADDITION | 3' - 0" | 7' - 0" | 13/4" | F | WD | | F10 | HM | G1 | | | | | H6/A6.02 | H8/A6.02 | | | |

# EXISTING DOOR SCHEDULE - FOR REFERENCE ONLY

| LOCATION | | SIZE | | | DOOR | | | FRAME | | | HARDWARE | | | | | DETAILS | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | ELEC. COORD. | | | | | | | | |
| DOOR NUMBER | ROOM NAME | WIDTH | HT | THK | DOOR TYPE | MAT'L | GLASS OR LOUVER TYPE | FRAME TYPE | MAT'L | GLASS TYPE | HARDWARE SET NO. | HOLD OPEN | FIRE ALARM INTERFACE | ACCESS CONTROL | HEAD | JAMB | SILL | FIRE RATING | NUMBERED NOTES |
| E310A | LAB | 3' - 0" | 7' - 0" | 13/4" | HG | HM | G1 | F13 | HM | | | | | | | | | | |
| E310B | LAB | 12' - 0" | 8' - 0" | 3/4" | RS | | | | | | | | | | | | | | |
| E312 | LAB | 3' - 0" | 7' - 0" | 13/4" | F | HM | | F13 | HM | | | | | | | | | | 03 |
| E701 | ENTRY | 5' - 10" | 6' - 11" | 13/4" | FG | AL/GL | G1 | SF/CW | AL | | | | | | | | | | |
| E702A | LAB | 3' - 0" | 7' - 0" | 13/4" | HG | HM | G1 | F13 | HM | | | | | | | | | | |
| E702B | LAB | 3' - 0" | 7' - 0" | 13/4" | HG | HM | G1 | F13 | HM | | | | | | | | | | |
| E702C | LAB | 10' - 0" | 9' - 4" | 3/4" | RS | | | | | | | | | | | | | | |
| ER15 | STOR. | 3' - 0" | 7' - 0" | 13/4" | F | WD | | F1 | HM | | | | | | | | | | |
| ER16 | STOR. | 3' - 0" | 7' - 0" | 13/4" | F | WD | | F1 | HM | | | | | | | | | | |
| ES100 | STORAGE | 6' - 0" | 7' - 0" | 13/4" | F | HM | | F1 | HM | | | | | | | | | | |

# DOOR NUMBERED NOTES

01 OVERHEAD COILING DOOR, SEE SPECIFICATIONS

02 OVERHEAD GLAZED ALUMINUM SECTIONAL DOOR, SEE SPECIFICATIONS

03 EXISTING FRAME TO REMAIN. DOOR SWING TO SWITCH PER DRAWINGS. IF EXISTING DOOR CANNOT BE MODIFIED FOR NEW SWING DIRECTION, PREP FRAME TO RECEIVE NEW DOOR AND HARDWARE

# DOOR GENERAL NOTES

1) GENERAL:

A. DOOR AND/OR FRAME CONSTRUCTION SHALL BE AS SPECIFIED UNLESS NOTED OTHERWISE.

B. ALL TYPES OF DOORS ARE REPRESENTED IN THIS SCHEDULE FOR CONVENIENCE. WHERE MORE DESCRIPTIVE INFORMATION MAY BE LOCATED ELSEWHERE, NOTATION IS MADE IN THE NUMBERED NOTES COLUMN. (E.G. ALUMINUM FRAMED ENTRANCE DOORS. SEE SPECIFICATIONS)

C. EVALUATE EXISTING DOORS TO REMAIN FOR DAMAGE. PROVIDE AN ASSESSMENT OF CONDITION FOR EACH DOOR TO INCLUDE, BUT NOT LIMITED TO, FINISH & OPERATION. MAKE REPAIRS TO DOORS AND HARDWARE SO THEY PERFORM AND APPEAR IN LIKE NEW CONDITION.

D. EXISTING DOORS TO REMAIN ARE SHOWN FOR INFORMATION AND COORDINATION PURPOSES ONLY. IF WORK IS REQUIRED TO REPAIR, REFINISH, ADJUST OR MODIFY THESE OPENINGS, VERIFY DIMENSIONS, MATERIALS, ELEVATIONS AND HARDWARE IN THE FIELD.

E. GALVANIZED MC CHANNEL FRAME AT OH DOORS TO BE PROTECTED DURING MASONRY INSTALLATION. IF FRAMES ARE DAMAGED/SCRATCHED/ ETC. GALVANIZATION SHALL BE PAINTED WITH ZINC RICH PAINT. FOLLOW ALL PREPARATION REQUIREMENTS FOR ZINC RICH PAINT APPLICATION

F. DO NOT SUPPORT SECTIONAL OH DOOR TRACKS FROM ROOF DECK. TRACKS SHOULD BE SUPPORTED BY SUPPLEMENTARY STEEL BETWEEN ROOF JOISTS. GENERAL CONTRACTOR RESPONSIBLE FOR PROVIDING ALL MISC STEEL FOR ANCHORING TRACK BETWEEN ROOF JOISTS, TYP.

2) MATERIAL AND FINISH:

A. MATERIALS AND FINISHES INDICATED ON THE SCHEDULE ARE AS FOLLOWS:

| | |
|---|---|
| HM | HOLLOW METAL |
| ST | STEEL |
| ST/S | STEEL / STAINLESS OR STAINLESS CLAD |
| WD | SOLID CORE WOOD |
| WD/PL | WOOD / PLASTIC LAMINATE FACED |
| WD/IR | WOOD / IMPACT-RESISTANT VINYL-FACED |
| AL | ALUMINUM |
| GL | GLAZING/GLASS |
| PREFIN | PREFINISHED (OR FACTORY FINISHED) |
| PNT | PAINTED |
| STN | STAINED |

3) GLASS:

A. GLASS TYPES INDICATED ON THE SCHEDULE ARE AS FOLLOWS (SEE SPECIFICATION SECTION 08 8000 'GLAZING'):

MONOLITHIC:

| | | |
|---|---|---|
| G1 | 6.0mm | CLEAR, TEMPERED (INCREASE TO 12.0mm TH. AT 2-SIDED GLAZING) |
| G1A | 6.0mm | CLEAR, HEAT STRENGTHENED |
| G2 | 6.0mm | ULTRACLEAR, TEMPERED |
| G3 | 4.0mm(x2) | ULTRACLEAR, TEMPERED, 2 LITES + INTEGRAL BLINDS |
| G4 | 7.5mm | CLEAR, LAMINATED, INTERLAYER COLOR: CLEAR |
| G5 | 7.5mm | ULTRACLEAR, LAMINATED, INTERLAYOR COLOR: CLEAR |
| G6 | 7.5mm | CLEAR, LAMINATED, INTERLAYER COLOR: ARCTIC SNOW |
| G7 | 8.0mm | CLEAR, FIRE-RATED CERAMIC GLAZING, MATCH RATING OF OPENING |
| G8 | 12.5mm | LEAD-BARIUM X-RAY SHIELDING GLASS (SEE SPECIFICATION 13 4900) |
| G9 | VARIES | SPECIALTY GLASS, (IF SCHEDULED, SEE SPECIFICATION 08 8000) |

INSULATING:

| | | |
|---|---|---|
| IG1 | 1 inch | INSULATING, VISION LITE |
| IG2 | 1 inch | INSULATING, SPANDREL LITE |
| IG3 | 1 5/16 in. | INSULATING, LAMINATED, VISION LITE |
| IG4 | 1 5/16 in. | INSULATING, LAMINATED, SPANDREL LITE |

4) LOUVERS:

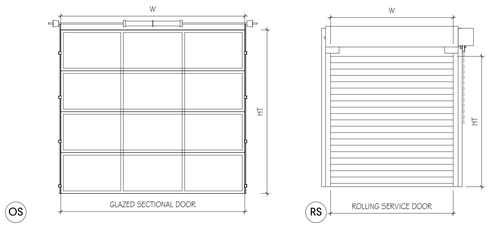
A. DOOR LOUVER TYPES INDICATION ON THE SCHEDULE ARE AS FOLLOWS:

| | |
|---|---|
| L1 | 30" W 20" H, 55% FREE AREA, WEATHER RESISTANT, W/ INSECT SCREEN |
| L2 | A" W X B" H, LIGHT PROOF |

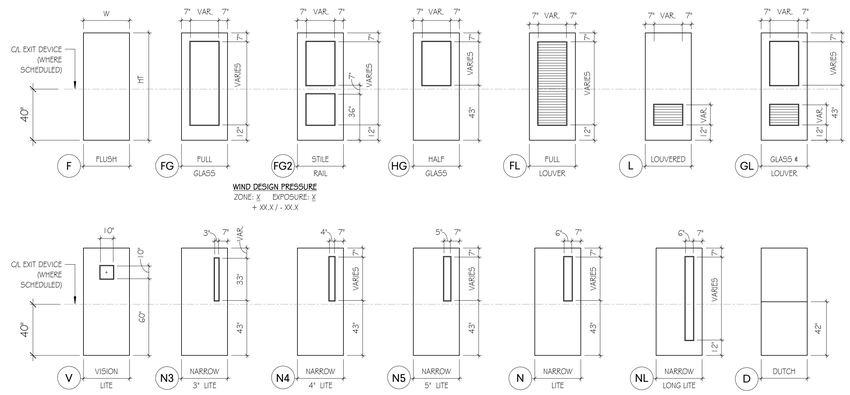
5) DOOR HARDWARE:

A. "HARDWARE SET NUMBER" REFERS TO HARDWARE SETS SPECIFIED IN SPECIFICATION SECTION 08 7100 "DOOR HARDWARE".

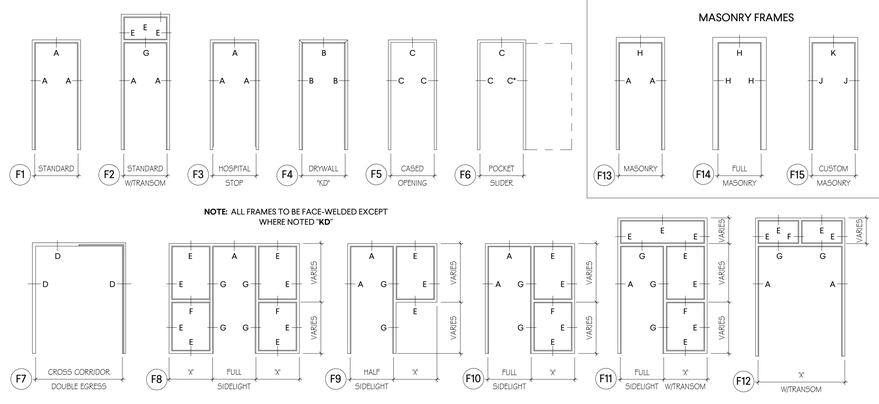
# DOOR TYPES - SPECIALTY DOORS



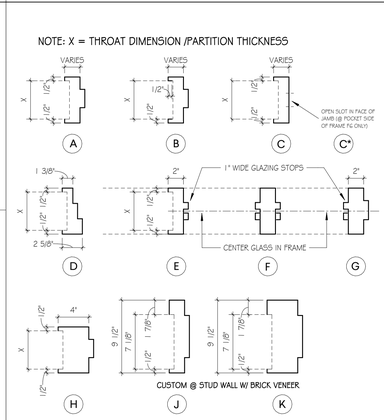

# DOOR TYPES - WOOD + HOLLOW METAL SWING DOORS




# FRAME TYPES - HOLLOW METAL




# FRAME PROFILES





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ISSUE | DATE
IFB SET | 05/27/2026

DRAWN BY: Author
CHECKED BY: Checker

**REID STATE CC WELDING & INDUSTRIAL RENO.**
100 AL-83, Evergreen, AL 36401

ACCS 2025 162 RSTCC
GMC ABHM250047

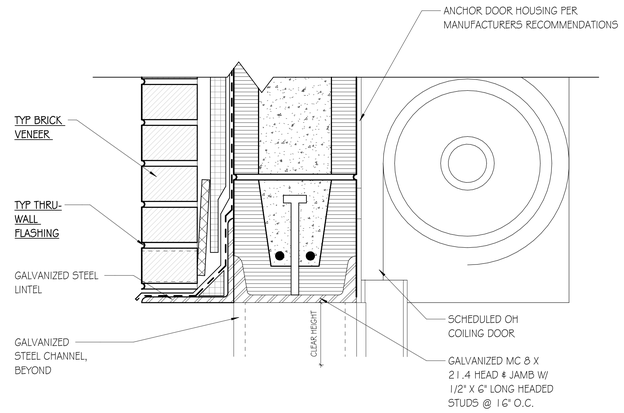
STATE OF ALABAMA
PATRICK SWATEK
8969
REGISTERED ARCHITECT

DOOR SCHEDULE

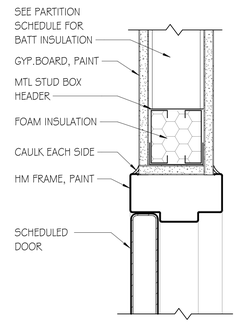
A6.01

5/27/2026 4:16:53 PM TEMPLATE VERSION: 2025.1

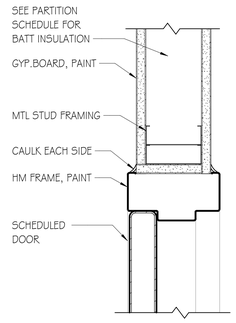
*NOTE: GENERAL CONTRACTOR RESPONSIBLE FOR PROVIDING ALL MISC STEEL FOR ANCHORING TRACK BETWEEN ROOF JOISTS, TYP.



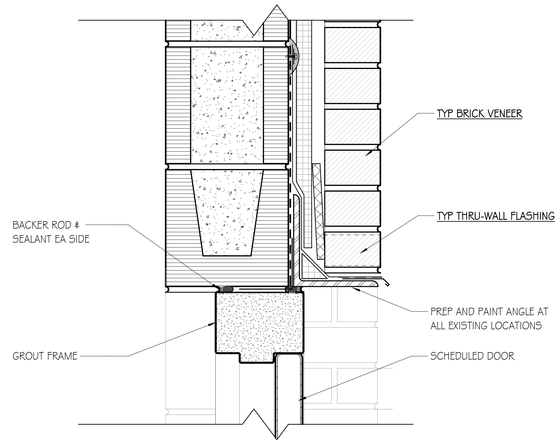

## H1 OH DOOR HEAD - CMU
SCALE: 3" = 1'-0"



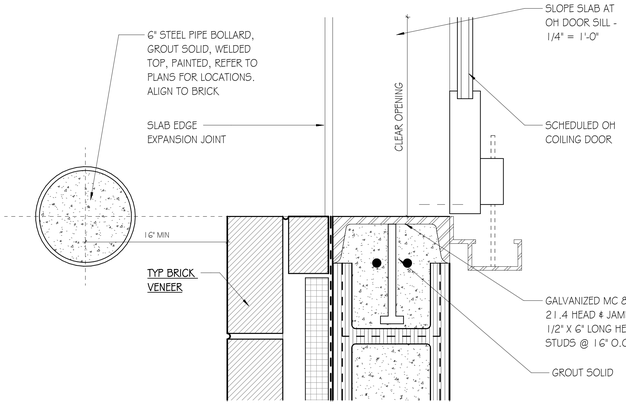

## H6 MTL STUD - DOOR HEAD
SCALE: 3" = 1'-0"



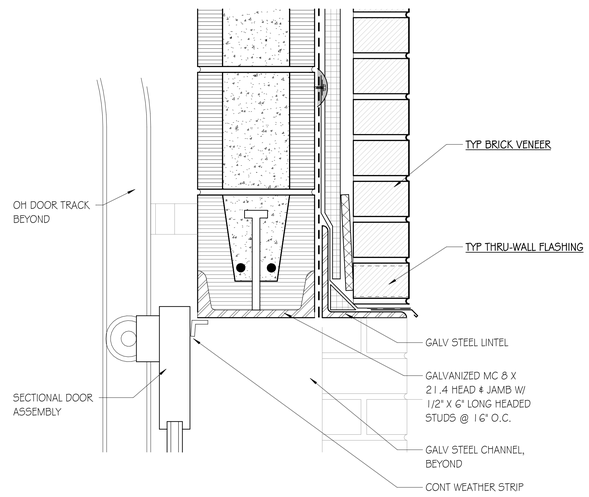

## H8 MTL STUD - DOOR JAMB
SCALE: 3" = 1'-0"



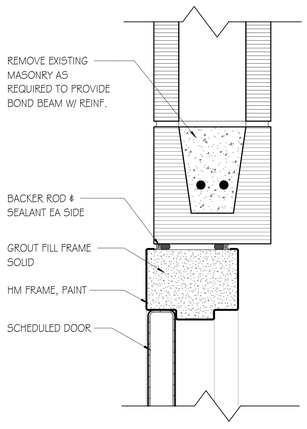

## H10 MASONRY DOOR HEAD
SCALE: 3" = 1'-0"



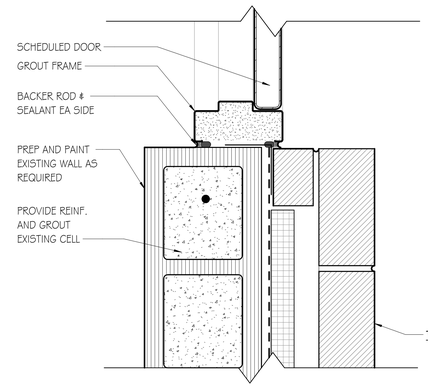

## D1 OH DOOR JAMB - CMU
SCALE: 3" = 1'-0"



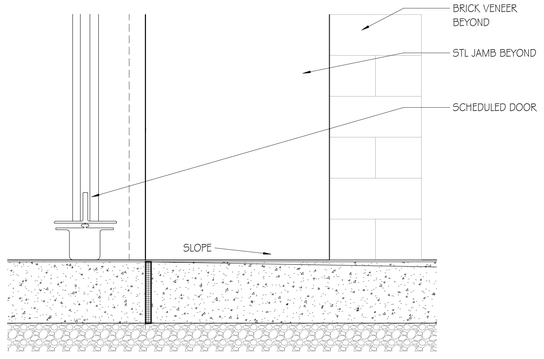

## D5 EXT OH SECTIONAL DR HEAD - CMU
SCALE: 3" = 1'-0"



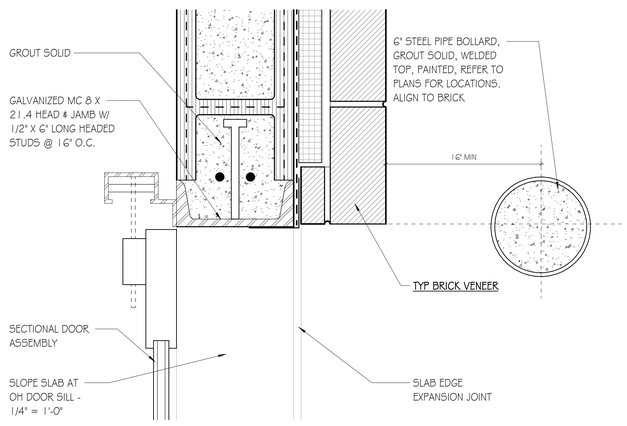

## D8 CMU - DOOR HEAD
SCALE: 3" = 1'-0"



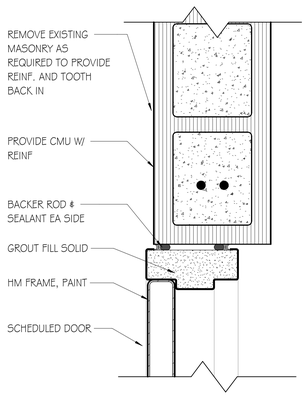

## D10 MASONRY DOOR JAMB
SCALE: 3" = 1'-0"



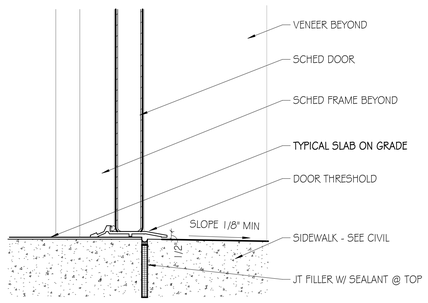

## A1 EXT OH DR SILL
SCALE: 3" = 1'-0"




## A5 EXT OH SECTIONAL DR JAMB - CMU
SCALE: 3" = 1'-0"




## A8 CMU - DOOR JAMB
SCALE: 3" = 1'-0"




## A10 EXT HM DR THRESHOLD
SCALE: 3" = 1'-0"

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CHECKED BY: Checker

**REID STATE CC WELDING & INDUSTRIAL RENO.**
100 AL-83, Evergreen, AL 36401

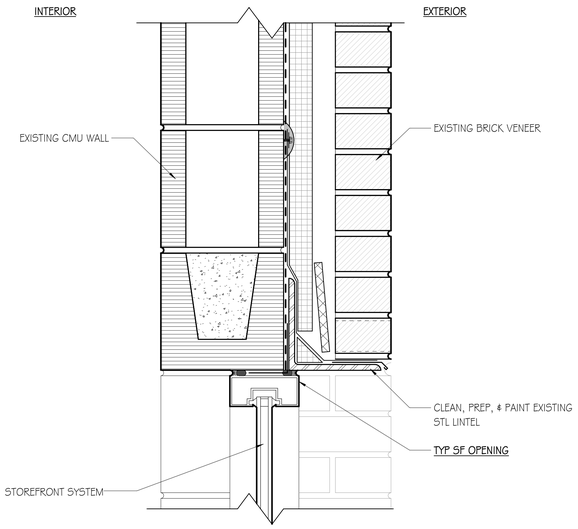
ACCS 2025 162 RSTCC
GMC ABHM250047

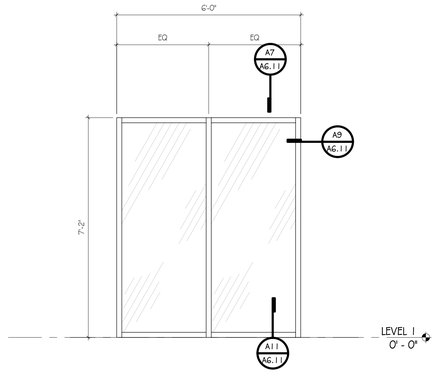
STATE OF ALABAMA
PATRICK SWATEK
8969
REGISTERED ARCHITECT

**DOOR DETAILS**

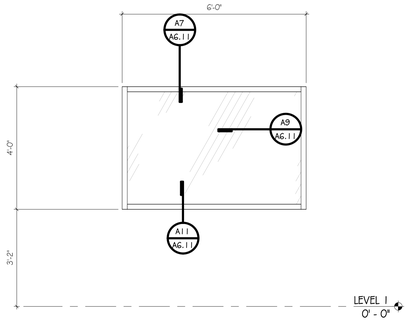
A6.02

5/27/2026 4:16:54 PM TEMPLATE VERSION: 2025.1

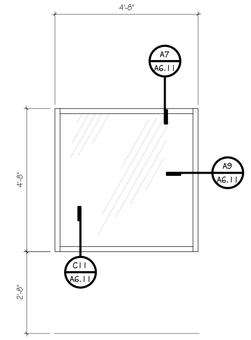


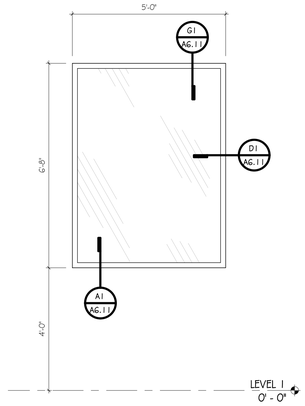

**SF3**
SCALE: 1/2" = 1'-0"




**SF2**
SCALE: 1/2" = 1'-0"

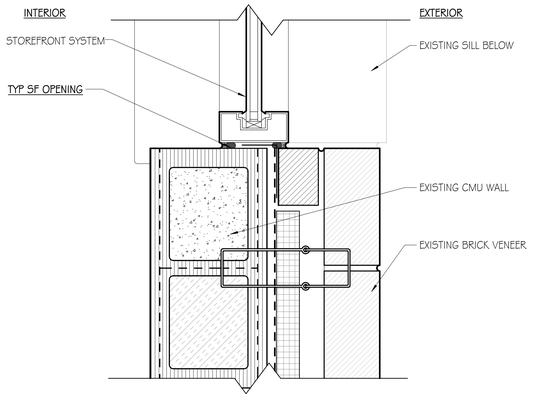



**SF1**
SCALE: 1/2" = 1'-0"

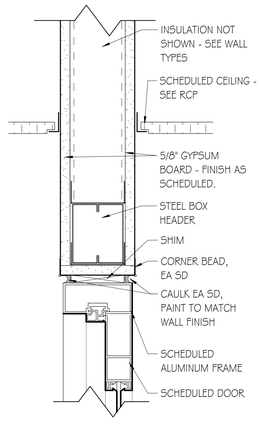



**ESF1**
SCALE: 1/2" = 1'-0"

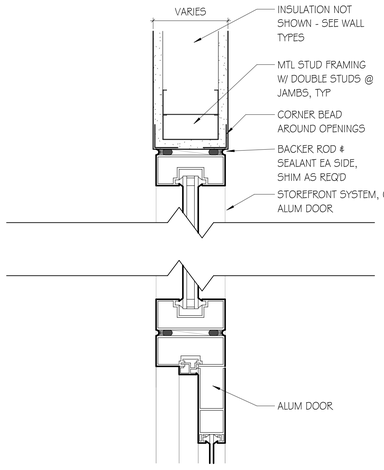
## G1 EXT. WINDOW HEAD - CMU/BRICK
SCALE: 3" = 1'-0"



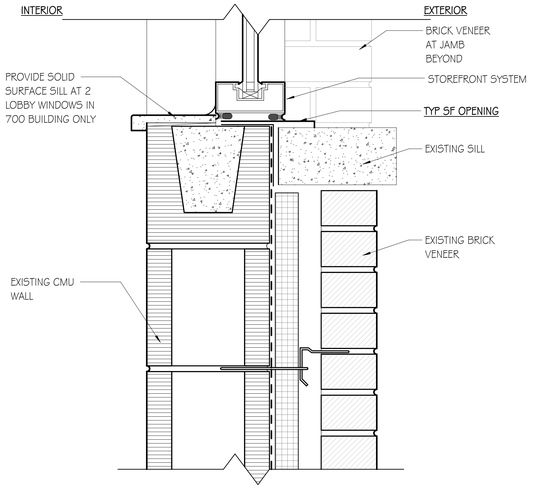

## D1 EXT. WINDOW JAMB - CMU/BRICK
SCALE: 3" = 1'-0"



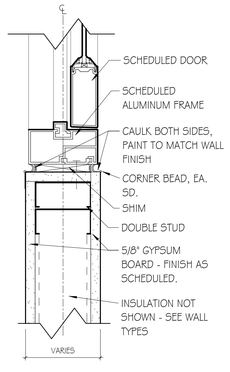

## D4 INT. SF HEAD - MTL STUD
SCALE: 3" = 1'-0"



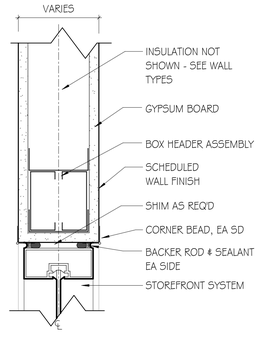

## D7 INT GYP ALUM DR JAMB @ SF
SCALE: 3" = 1'-0"



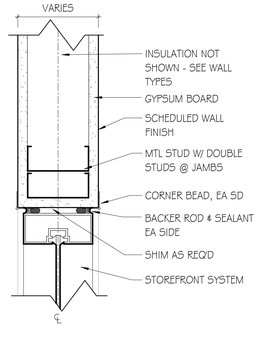

## A1 EXT. WINDOW SILL - CMU/BRICK
SCALE: 3" = 1'-0"



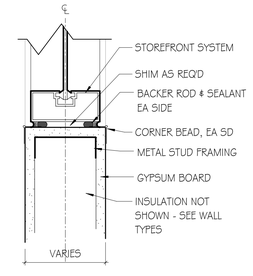

## A4 INT. SF JAMB - MTL STUD
SCALE: 3" = 1'-0"



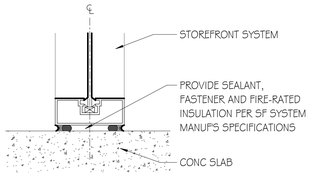

## A7 INT. SF HEAD
SCALE: 3" = 1'-0"




## A9 INT. SF JAMB
SCALE: 3" = 1'-0"




## C11 INT. SF SILL - GYP.
SCALE: 3" = 1'-0"




## A11 INT. SF SILL
SCALE: 3" = 1'-0"

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ACCS 2025162 RSTCC
GMC ABHM250047

STATE OF ALABAMA
PATRICK SWATEK
8969
REGISTERED ARCHITECT

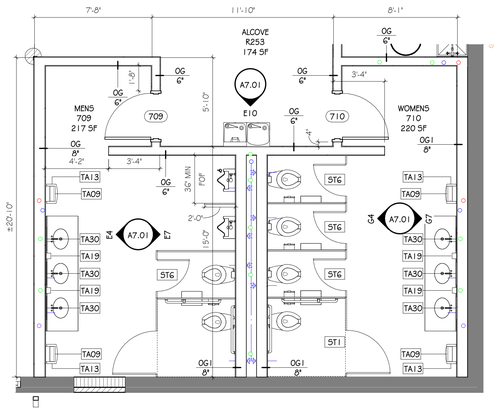
**STOREFRONT LEGEND & DETAILS**

A6.11

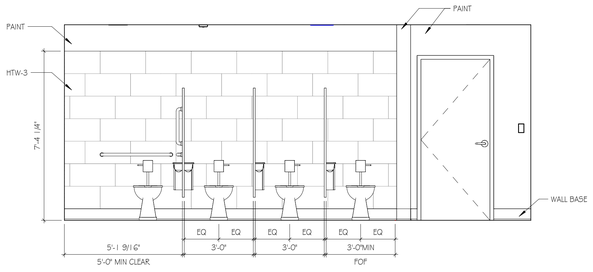
5/27/2026 4:16:57 PM TEMPLATE VERSION: 2025.1

| TOILET ACCESSORIES SCHEDULE | | |
|---|---|---|
| TAG | DESCRIPTION | COMMENTS |
| TA01 | TOILET TISSUE DISP - DBL. STD. ROLL W/SHELF | CFCI |
| TA09 | PAPER TOWEL DISP - AUTO, ROLL, RESIN CABINET, LG | OFCI |
| TA13 | WASTE RECEPTACLE, SURFACE MOUNT, LARGE | CFCI |
| TA19 | SOAP DISP - FOAM, AUTOMATIC | OFCI |
| TA23 | 18" VERTICAL GRAB BAR | CFCI |
| TA24 | 36" HORIZONTAL GRAB BAR | CFCI |
| TA25 | 42" HORIZONTAL GRAB BAR | CFCI |
| TA30 | MIRROR, CHANNEL FRAMED WITHOUT SHELF (18 x 36 INCHES) | CFCI |
| TA36 | SANITARY NAPKIN DISPOSAL - SURF-MT, BOTTOM HINGED | CFCI |
| TA60 | JANITORIAL SHELF | CFCI |

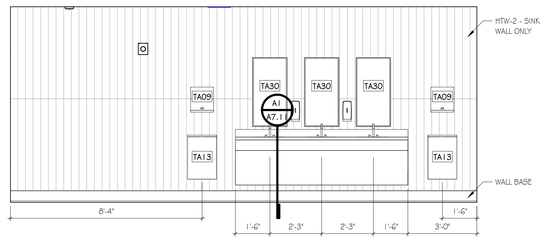
| SPECIALTY EQUIPMENT SCHEDULE | | |
|---|---|---|
| TAG | DESCRIPTION | COMMENTS |
| S1 | MARKER BOARD - 6'-0"W X 4'-0"H | CFCI |
| S2 | 4K SMART TV, SEE INTERIOR ELEVATION FOR ELEC. COORDINATION | OFCI |
| S3 | 2 TIER HEAVY DUTY LOCKER | CFCI |



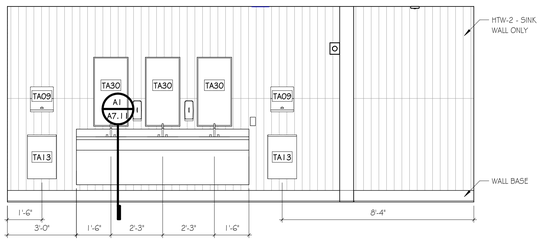

## E1 RESTROOMS BUILDING 700
SCALE: 1/4" = 1'-0"



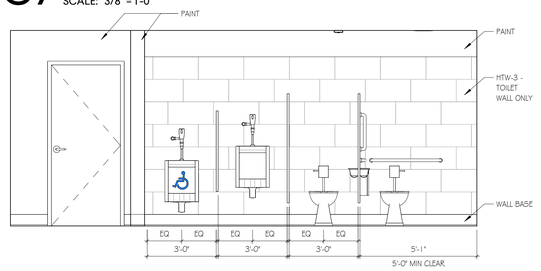

## G4 W 710 WEST
SCALE: 3/8" = 1'-0"



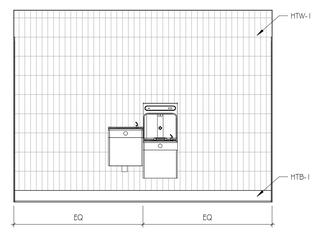

## G7 W 710 EAST
SCALE: 3/8" = 1'-0"



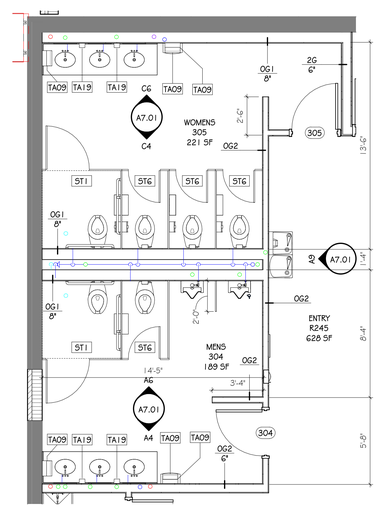

## E4 M 709 WEST
SCALE: 3/8" = 1'-0"



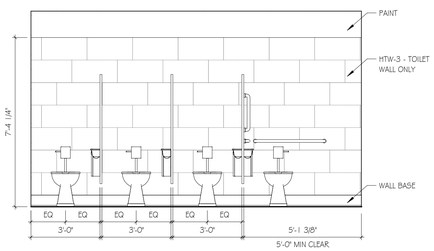

## E7 M 709 EAST
SCALE: 3/8" = 1'-0"



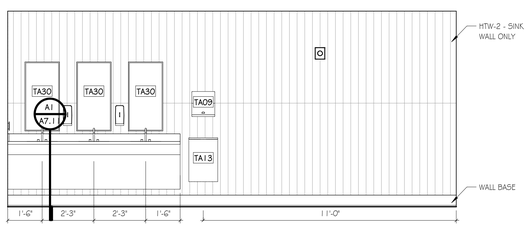

## E10 ALCOVE R253 WATER COOLERS
SCALE: 3/8" = 1'-0"



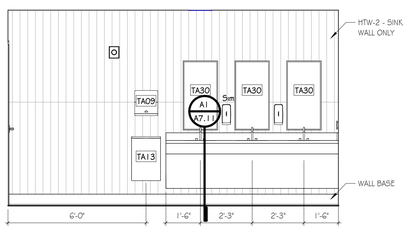

## A1 RESTROOMS BUILDING 300
SCALE: 1/4" = 1'-0"



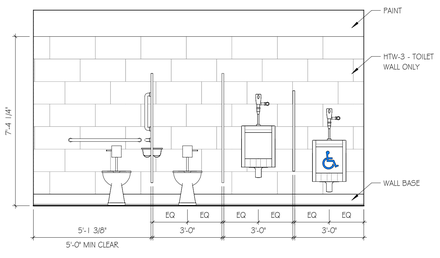

## C4 W 305 SOUTH
SCALE: 3/8" = 1'-0"



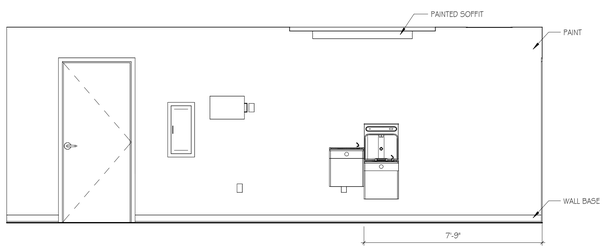

## C6 W 305 NORTH
SCALE: 3/8" = 1'-0"




## A4 M 304 SOUTH
SCALE: 3/8" = 1'-0"




## A6 M 304 NORTH
SCALE: 3/8" = 1'-0"




## A9 ENTRY R245 WATER COOLERS
SCALE: 3/8" = 1'-0"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100 AL-83, Evergreen, AL 36401

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GMC ABHM250047

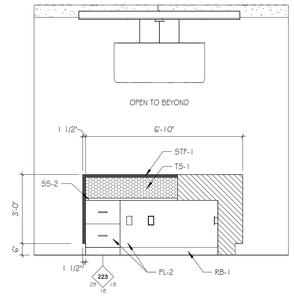
STATE OF ALABAMA
PATRICK SWATEK
8969
REGISTERED ARCHITECT

ENLARGED PLANS & INTERIOR ELEVATIONS

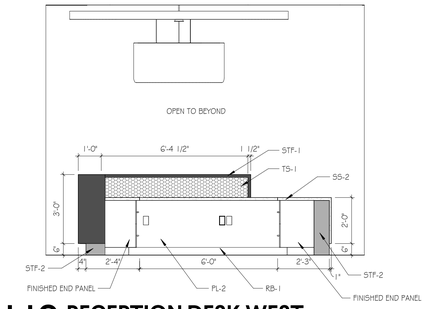
A7.01

5/27/2026 4:17:01 PM TEMPLATE VERSION: 2025.1

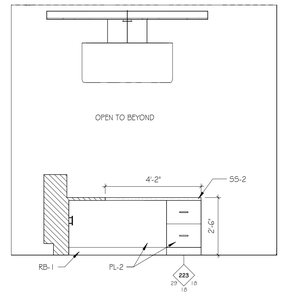
| SPECIALTY EQUIPMENT SCHEDULE | | |
|---|---|---|
| TAG | DESCRIPTION | COMMENTS |
| 51 | MARKER BOARD - 6'-0"W X 4'-0"H | CFCI |
| 52 | 4K SMART TV, SEE INTERIOR ELEVATION FOR ELEC. COORDINATION | OFCI |
| 53 | 2 TIER HEAVY DUTY LOCKER | CFCI |



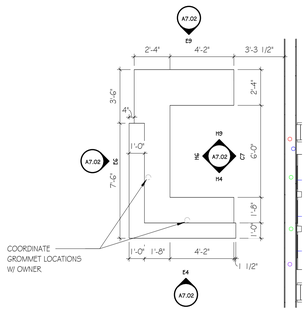

## H4 RECEPTION DESK INTERIOR SOUTH
SCALE: 3/8" = 1'-0"



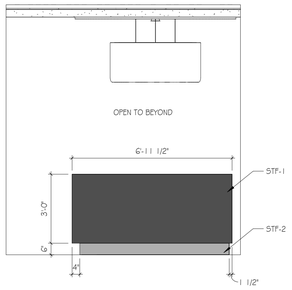

## H6 RECEPTION DESK WEST
SCALE: 3/8" = 1'-0"



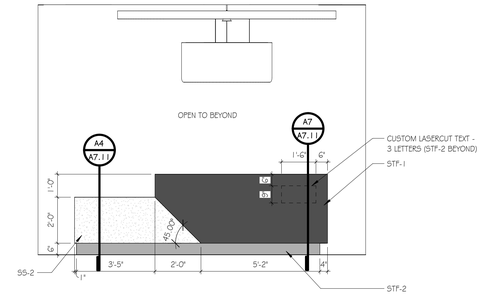

## H9 RECEPTION DESK INTERIOR NORTH
SCALE: 3/8" = 1'-0"



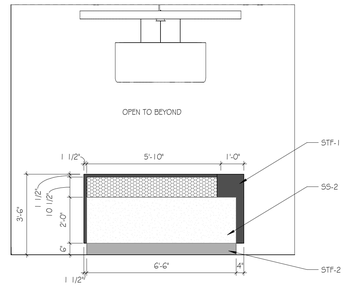

## E1 ENTRY 701 RECEPTION DESK
SCALE: 1/4" = 1'-0"



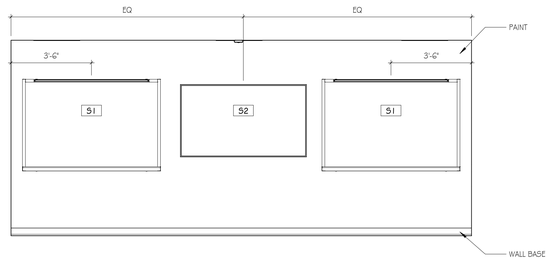

## E4 RECEPTION DESK NORTH
SCALE: 3/8" = 1'-0"



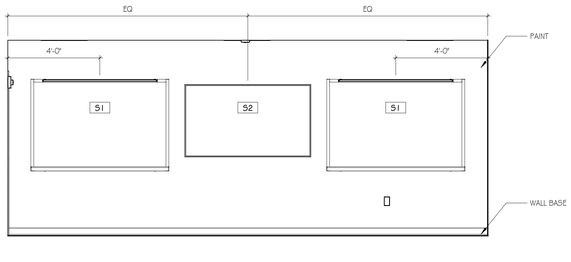

## E6 RECEPTION DESK EAST
SCALE: 3/8" = 1'-0"



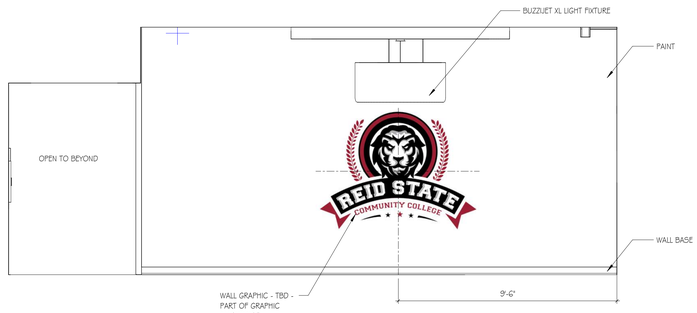

## E9 RECEPTION DESK SOUTH
SCALE: 3/8" = 1'-0"



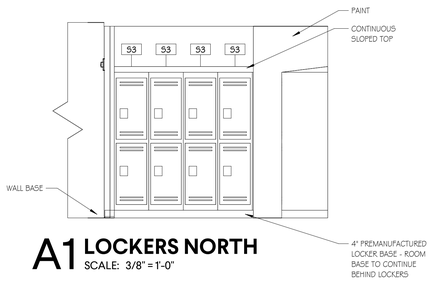

## C1 CLASSROOM 708 EAST
SCALE: 3/8" = 1'-0"



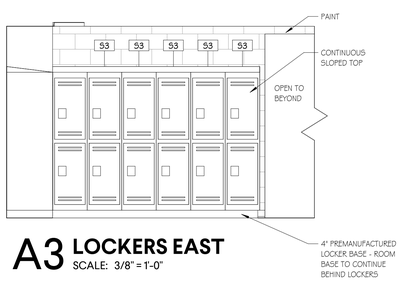

## C4 CLASSROOM 718 EAST
SCALE: 3/8" = 1'-0"



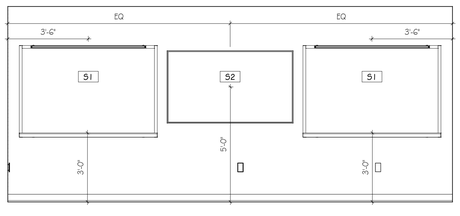

## C7 ENTRY EAST
SCALE: 3/8" = 1'-0"




## A1 LOCKERS NORTH
SCALE: 3/8" = 1'-0"




## A3 LOCKERS EAST
SCALE: 3/8" = 1'-0"




## A6 CLASSROOM 307 NORTH
SCALE: 3/8" = 1'-0"

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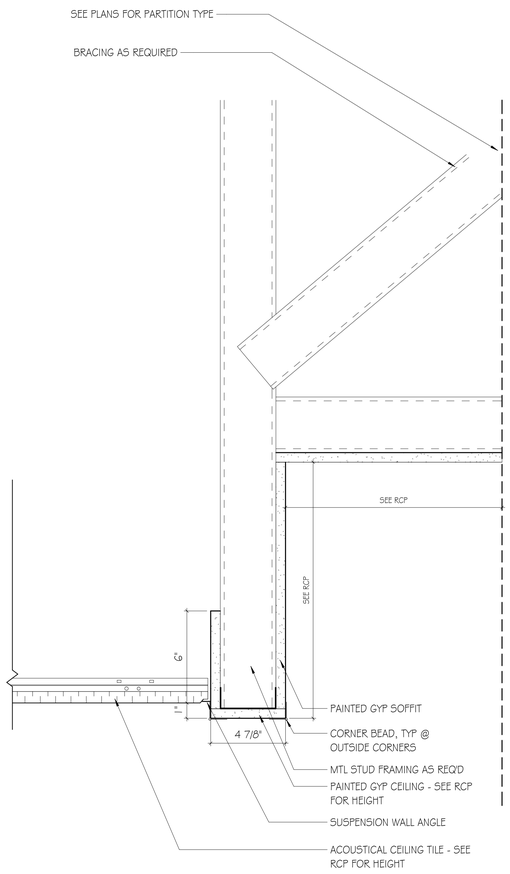
GMC ABHM250047

STATE OF ALABAMA
PATRICK SWATEK
8969
REGISTERED ARCHITECT

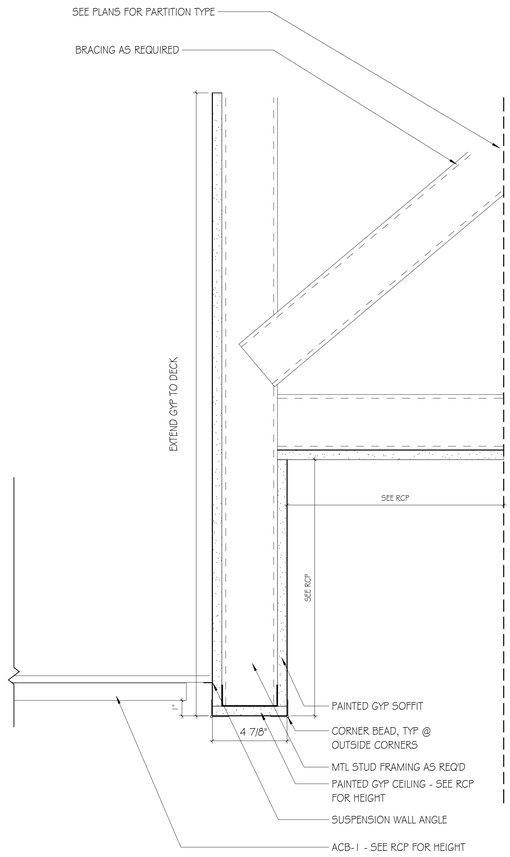
**INTERIOR ELEVATIONS**

# A7.02

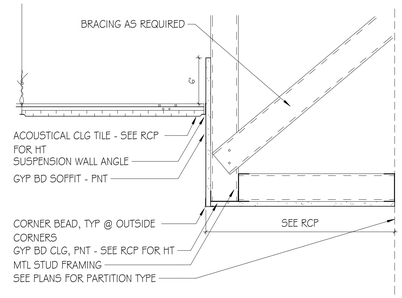
5/27/2026 4:17:05 PM TEMPLATE VERSION: 2025.1




## D1 ACT TO GYP / WINDOW POCKET
SCALE: 3" = 1'-0"



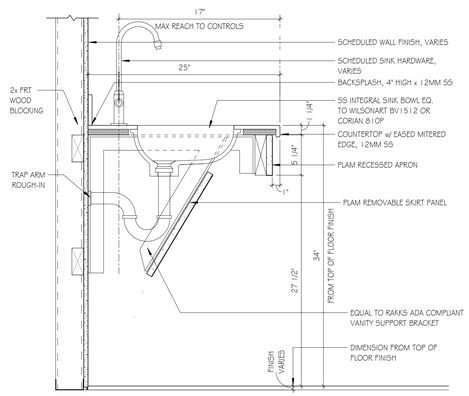

## D4 ACB-1 TO GYP/WINDOW POCKET
SCALE: 3" = 1'-0"



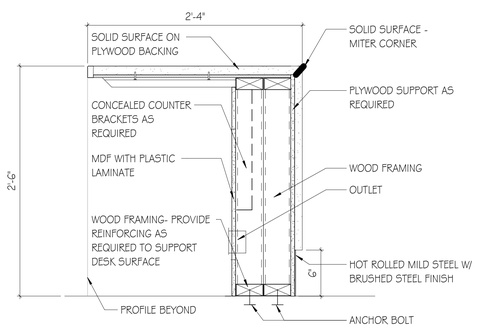

## D7 ACT-GYP SOFFIT TYP
SCALE: 11/2" = 1'-0"



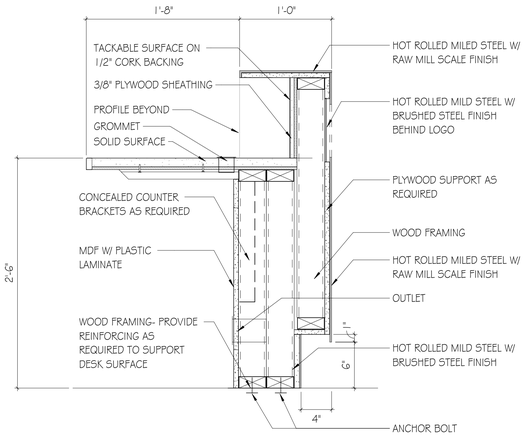

## D10 ACT-GYP-ACT TYP
SCALE: 11/2" = 1'-0"




## A1 06- ADA SINKBASE-TYPE SS-I-SS-B2
SCALE: 11/2" = 1'-0"




## A4 RECEPTION ADA HEIGHT
SCALE: 11/2" = 1'-0"




## A7 RECEPTION TRANSACTION
SCALE: 11/2" = 1'-0"

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REID STATE CC WELDING & INDUSTRIAL RENO.
100 AL-83, Evergreen, AL 36401

ACCS 2025 162 RSTCC
GMC ABHM250047

STATE OF ALABAMA
PATRICK SWATEK
8969
REGISTERED ARCHITECT

INTERIOR DETAILS

A7.11

5/27/2026 4:17:06 PM TEMPLATE VERSION: 2025.1

## FINISH NOTES

**FLOORS:**

- REFER TO FLOOR FINISH PLANS FOR FLOOR PATTERN. CONTRACTOR MUST NOTIFY INTERIOR DESIGNER BEFORE INSTALLATION OF FLOORING TO REVIEW DESIGN INTENT OF FLOOR PATTERN PLAN

- ALL FLOORING TRANSITIONS INCLUDING TRANSITIONS TO SIMILAR MATERIAL OR REDUCER STRIPS AND OTHER THRESHOLDS TO DISSIMILAR MATERIAL SHALL BE LOCATED AT THE CENTERLINE OF DOOR WHEN IN CLOSED POSITION. COLORS SHALL BE SELECTED DURING SUBMITTAL REVIEW. REFER TO DETAILS FOR TRANSITIONS BETWEEN FLOORING MATERIALS. CONTRACTOR TO PROVIDE TRANSITION SIZES APPROPRIATE FOR THICKNESS

- AVOID ALL FLOORING MATERIAL SLIVER CUTS LESS THAN 4" WIDE @ WALL PERIMETERS & MATERIAL TRANSITIONS. CONTACT DESIGNER IF JOBSITE CONDITIONS DIFFER.

- INSTALL FLOORING CONTINUOUS UNDER ALL CASEWORK, MILLWORK, EQUIPMENT, & FURNITURE

- ALIGN VERTICAL GROUT JOINTS IN TILE BASE WITH THOSE IN THE FLOOR TILE UNLESS NOTED OTHERWISE

- AT EXISTING SEALED CONCRETE FLOOR LOCATIONS NOTED AS SC ON FINISH PLANS - GC TO CLEAN, GRIND & RE-SEAL AS SPECIFIED.

**WALLS:**

- REFER TO FINISH PLANS & ELEVATIONS FOR LOCATION OF ACCENT PAINT COLORS

- ALL HOLLOW METAL DOOR & WINDOW FRAMES TO BE PAINTED PNT-2 UNLESS OTHERWISE NOTED

- ALL ACCESS PANELS AND MISCELLANEOUS METAL (RETURN AND AIR SUPPLY GRILLES, EXPANSION JOINTS, ETC.) LOCATED ON WALL SURFACES OR CEILING SURFACES TO BE PAINTED WALL OR CEILING COLOR U.N.O.

- WALL BASE TO BE INSTALLED ON ALL WALLS, MILLWORK, AND CASEWORK U.N.O.

- INSTALL FINISH STRIP EQUAL TO SCHLUTER "JOLLY" AT ALL EXPOSED TILE EDGES & CORNERS

**MILLWORK / CASEWORK:**

- INSTALL 3MM EDGEBAND ON ALL PLASTIC LAMINATE COUNTERTOPS AND CABINETS.

- GROMMET LOCATIONS TO BE COORDINATED WITH OWNER

- FIELD VERIFY ALL DIMENSIONS FOR CASEWORK & MILLWORK PRIOR TO FABRICATION & INSTALLATION

- ALL EXPOSED ENDS AND EXPOSED INTERIORS OF CASEWORK/ MILLWORK TO RECEIVE MATCHING LAMINATES

**MISC:**

- DO NOT PAINT DOOR LABELS AT RATED DOORS OR FRAMES.

- PROVIDE BLOCKING AS REQUIRED AT ALL TELEVISION LOCATIONS - COORDINATE WITH OWNER'S EQUIPMENT

- PROVIDE BLOCKING FOR ALL GRAB BARS AND TOILET ACCESSORIES

- REFER TO RCP FOR ACCENT PAINT COLOR LOCATIONS IN CEILING - WHERE CEILINGS ARE CALLED OUT TO BE PAINTED, BOTH CEILING AND SOFFIT/BULKHEAD WALLS ARE TO BE PAINTED ACCENT COLOR

- ROLLER SHADES AND BLINDS ARE TAGGED ON THE RCP

- NON ADA TOILET FIXTURES SHALL BE CENTERED IN STALL

- CAULK ALL DOOR FRAMES, MILLWORK, AND VIEW WINDOW FRAMES AFTER WALLCOVERING INSTALLATION IS COMPLETE. COLOR OF CAULK TO MATCH ADJACENT FINISH.

- GC TO PROVIDE SPECIFIED EXPANSION JOINT COVER AT ALL EXPOSED FINISH FLOOR, CEILING, AND WALL LOCATIONS

- MARKER BOARDS HEIGHTS TO BE 3'-0" A.F.F. TO THE BOTTOM OF WRITING SURFACE. GC TO COORDINATE WALL BLOCKING AS REQ'D.

- ALL PARTIES RESPONSIBLE FOR DELIVERING FINISHES TO THE SITE SHALL CHECK AVAILABILITY OF QUANTITIES AND DELIVERY DATES UPON NOTICE TO PROCEED. NO CONSIDERATION WILL BE GIVEN FOR FAILURE TO COMPLY WITH THIS REQUIREMENT.

**RCP NOTES:**

- INTERIOR CEILING HEIGHTS SHALL BE AS INDICATED ON THE REFLECTED CEILING PLANS.

- WHERE EXIT SIGNS ARE LOCATED ABOVE DOORWAYS, CENTER ABOUT DOOR, BUT MAINTAIN MINIMUM OVERHEAD CLEARANCE.

- IN EXPOSED CEILINGS (EXP-2) ALL EXPOSED ELEMENTS NOT LIMITED TO TRUSS SYSTEM, ACOUSTICAL DECK, DUCTWORK, CONDUIT, AND PIPING TO BE PAINTED

- ALL GYP CEILINGS TO BE PAINTED PNT-3 UNLESS OTHERWISE NOTED IN RCP. BOTH CEILING AND SOFFIT /BULKHEAD SURFACES ARE TO BE PAINTED THE SAME COLOR.

- DO NOT INSTALL CEILING TILE LESS THAN 6" IN ANY DIRECTION - WHEN POSSIBLE CENTER TILE IN ROOM.

- AREAS WITH EXPOSED CEILINGS EXP-2 SHALL HAVE CEILING PAINT COLOR EXTEND DOWN VERTICAL WALL SURFACE (24") - CONTRACTOR SHALL FIELD VERIFY EACH EXPOSED LOCATION WITH ARCHITECT AND OWNER PRIOR TO PAINTING.

## ROOM FINISH SCHEDULE

| ROOM # | ROOM NAME | FLOOR | BASE | WALL | MILLWORK/CASEWORK CABINET | MILLWORK/CASEWORK COUNTERTOP | COMMENTS |
|---|---|---|---|---|---|---|---|
| 301 | OFFICE | LVT-1 | RB-1 | PNT-1 | | | |
| 302 | OFFICE | LVT-1 | RB-1 | PNT-1 | | | |
| 303 | JAN. | SC-1 | RB-1 | PNT-1 | | | |
| 304 | MENS | HTF-1 | HTB-1 | PNT-1, HTW-2, HTW-3 | PL-1 | SS-1 | |
| 305 | WOMENS | HTF-1 | HTB-1 | PNT-1, HTW-2, HTW-3 | PL-1 | SS-1 | |
| 306 | OFFICE | LVT-1 | HTB-1 | PNT-1, HTW-2, HTW-3 | | | |
| 307 | CLASSROOM | LVT-1 | RB-1 | PNT-1 | | | |
| 308 | DATA | SC-1 | RB-1 | PNT-1 | | | |
| 309 | TOOL STORAGE | SC-1 | RB-1 | PNT-1 | | | |
| 310 | LAB | PC-1 | RB-1 | PNT-4 | | | |
| 312 | ADDITION LAB | PC-1 | RB-1 | PNT-4 | | | |
| 701 | ENTRY | LVT-1, WOC-1 | RB-1 | PNT-1 | PL-2, STF-1, STF-2 | SS-2, SS-3 | |
| 702 | LAB | PC-1 | RB-1 | PNT-4 | | | |
| 703 | OFFICE | LVT-1 | RB-1 | PNT-1 | | | |
| 704 | OFFICE | LVT-1 | RB-1 | PNT-1 | | | |
| 705 | MECH. | SC-1 | RB-1 | PNT-1 | | | |
| 706 | STORAGE | SC-1 | RB-1 | PNT-1 | | | |
| 707 | ELECTRICAL | SC-1 | RB-1 | PNT-1 | | | |
| 708 | CLASSROOM | LVT-1 | RB-1 | PNT-1 | | | |
| 709 | MENS | HTF-1 | HTB-1 | PNT-1, HTW-2, HTW-3 | PL-1 | SS-1 | |
| 710 | WOMENS | HTF-1 | HTB-1 | PNT-1, HTW-2, HTW-3 | PL-1 | SS-1 | |
| 711 | JAN. | SC-1 | RB-1 | PNT-1 | | | |
| 712 | MECH. | SC-1 | RB-1 | PNT-1 | | | |
| 713 | LAB ADDITION | PC-1 | RB-1 | PNT-4 | | | |
| 718 | CLASSROOM | LVT-1 | RB-1 | PNT-1 | | | |
| 719 | STORAGE | SC-1 | RB-1 | PNT-1 | | | |
| 720 | DATA | SC-1 | RB-1 | PNT-1 | | | |
| 721 | OFFICE | LVT-1 | RB-1 | PNT-1 | | | |
| 722 | OFFICE | LVT-1 | RB-1 | PNT-1 | | | |
| 723 | OFFICE | LVT-1 | RB-1 | PNT-1 | | | |
| 724 | TOOL STORAGE | SC-1 | RB-1 | PNT-1 | | | |
| R15 | STOR. | SC-1 | RB-1 | PNT-1 | | | |
| R16 | STOR. | SC-1 | RB-1 | PNT-1 | | | |
| R40 | STORAGE | SC-1 | RB-1 | PNT-1 | | | |
| R245 | ENTRY | LVT-1, WOC-1 | RB-1 | PNT-1 | | | |
| R246 | CORRIDOR | PC-1 | RB-1 | PNT-1 | | | |
| R253 | ALCOVE | LVT-1, HTF-1 | RB-1, HTB-1 | PNT-1, HTW-1 | | | |

## FINISH LEGEND

### FLOOR

| NUMBER | TYPE | DETAIL DESCRIPTION |
|---|---|---|
| HTF-1 | HARD FLOOR TILE | MANUFACTURER: SOUTH CYPRESS<br>STYLE NAME: METROPOLITAN<br>COLOR: CHARCOAL MATTE<br>SIZE: 12" X 24"<br>INSTALLATION: STAGGERED<br>GROUT: TBD<br>LOCATION: WHERE NOTED |
| LVT-1 | LUXURY VINYL TILE | MANUFACTURER: SHAW<br>STYLE NAME: INLET II<br>COLOR: THATCH<br>SIZE: 9" X 48"<br>INSTALLATION: ASHLAR<br>LOCATION: WHERE NOTED |
| WOC-1 | WALK-OFF CARPET | MANUFACTURER: BENTLEY MILLS<br>STYLE NAME: ROUGH IDEA SHEAR<br>COLOR: DESIGN 80011G<br>SIZE: 24" X 24"<br>LOCATION: WHERE NOTED |
| PC-1 | POLISHED CONCRETE | MANUFACTURER: AMERIPOLISH<br>COLOR: AP GRAY<br>LOCATION: FINANCE PARK |
| SC-1 | SEALED CONCRETE | MANUFACTURER: SHERWIN WILLIAMS<br>STYLE NAME: 2 COATS CLEAR ARMORSEAL REXTHANE 1 W/ ANTI-SLIP ADDITIVE M# C SHARKGRIP<br>LOCATION: WHERE NOTED |

### BASE

| NUMBER | TYPE | DETAIL DESCRIPTION |
|---|---|---|
| RB-1 | RUBBER BASE | MANUFACTURER: JOHNSONITE/TARKETT<br>STYLE NAME: BASEWORKS THERMOSET RUBBER<br>COLOR: 29 MOON ROCK WG<br>SIZE / PROFILE: 4" / 1/8" TYPE TS<br>INSTALLATION: CONTINUOUS<br>LOCATION: WHERE NOTED |
| HTB-1 | HARD TILE BASE | MANUFACTURER: SOUTH CYPRESS<br>STYLE NAME: METROPOLITAN<br>COLOR: CHARCOAL MATTE<br>SIZE: 6" X 12" COVE BASE<br>LOCATION: WHERE NOTED |

### WALL

| NUMBER | TYPE | DETAIL DESCRIPTION |
|---|---|---|
| PNT-1 | [GENERAL/MAIN PAINT] | MANUFACTURER: SHERWIN WILLIAMS<br>COLOR: AMAZING GRAY SW7044<br>LOCATION: WHERE NOTED |
| PNT-2 | [TRIM PAINT] | MANUFACTURER: SHERWIN WILLIAMS<br>COLOR: ANONYMOUS SW7046<br>LOCATION: WINDOW & DOOR TRIM |
| PNT-3 | [MAIN CEILING/SOFFIT PAINT] | MANUFACTURER: SHERWIN WILLIAMS<br>COLOR: PURE WHITE SW7005<br>LOCATION: CEILINGS |
| PNT-4 | [ACCENT PAINT] | MANUFACTURER: SHERWIN WILLIAMS<br>COLOR: INTELLECTUAL GRAY 7045<br>LOCATION: LABS |
| PNT-5 | [ACCENT PAINT] | MANUFACTURER: SHERWIN WILLIAMS<br>COLOR: IRON ORE 7069<br>LOCATION: ENTRY 701 |
| HTW-1 | HARD WALL TILE | MANUFACTURER: STUDIO COLLECTION<br>STYLE NAME: VIBRANCE RIBBED<br>COLOR: PB02-08MR<br>INSTALLATION: VERTICAL STACK<br>GROUT: TBD<br>LOCATION: WHERE NOTED |
| HTW-2 | HARD WALL TILE | MANUFACTURER: RICHARDS AND STERLING<br>STYLE NAME: STICK<br>COLOR: RENA INSTENSO<br>INSTALLATION: VERTICAL STACK<br>GROUT: TBD<br>LOCATION: WHERE NOTED |
| HTW-3 | HARD WALL TILE | MANUFACTURER: SOUTH CYPRESS<br>STYLE NAME: ALTO<br>COLOR: LIGHT<br>INSTALLATION: STAGGERED<br>GROUT: TBD<br>LOCATION: WHERE NOTED |

### MISC

| NUMBER | TYPE | DETAIL DESCRIPTION |
|---|---|---|
| PL-1 | PLASTIC LAMINATE [TYP] | MANUFACTURER: FORMICA<br>STYLE NAME/COLOR: BLACK BIRCH PLY NATURAL GRAIN TEXTURE<br>LOCATION: WHERE NOTED |
| PL-2 | PLASTIC LAMINATE | MANUFACTURER: WILSONART<br>COLOR: GREY 1500-60<br>FINISH: MATTE<br>LOCATION: RECEPTION DESK |
| STF-1 | STEEL FINISH | MATERIAL: HOT ROLLED MILD STEEL W/ RAW MILL SCALE FINISH. TO BE SEALED WITH CLEAR POWDER COAT. HARDWARE AND FASTENERS TO BE HIDDEN. |
| STF-2 | STEEL FINISH | MATERIAL: HOT ROLLED MILD STEEL W/ BRUSHED STEEL FINISH. TO BE SEALED WITH CLEAR POWDER COAT. HARDWARE AND FASTENERS TO BE HIDDEN. |
| SS-1 | SOLID SURFACE | MANUFACTURER: LX HAUSYS<br>STYLE: HI MACS<br>COLOR: CALACATTA FIORE M802L<br>THICKNESS: 1/2"<br>LOCATION: WHERE NOTED |
| SS-2 | SOLID SURFACE | MANUFACTURER: CORIAN<br>COLOR: NEUTRAL AGGREGATE<br>THICKNESS: 1/2"<br>LOCATION: RECEPTION DESK |
| SS-3 | SOLID SURFACE | MANUFACTURER: CORIAN<br>COLOR: MODERN WHITE<br>THICKNESS: 1/2"<br>LOCATION: WINDOW SILLS |
| TS-1 | TACKABLE SURFACE FABRIC | MANUFACTURER: CARNEGIE XOREL<br>STYLE NAME/COLOR: 6557W 80 FLUX ON 1/2" CORK BACKING<br>LOCATION: RECEPTION DESK |
| TP-1 | TOILET PARTITIONS | MANUFACTURER: ASI GLOBAL<br>STYLE NAME: SOLID PLASTIC (HDPE)<br>COLOR: CHARCOAL 9237<br>LOCATION: RESTROOMS |
| RS-1 | ROLLER SHADES | MANUFACTURER: DRAPER<br>STYLE NAME: MANUAL FLEXSHADE<br>COLOR: 3% TBD<br>SIZE: FIELD VERIFY<br>LOCATION: WHERE NOTED |
| CG-1 | CORNER GUARDS | MANUFACTURER: INPRO<br>STYLE NAME: 130 HIGH IMPACT<br>COLOR: TBD<br>INSTALL ABOVE WALL BASE<br>SIZE: 2" WINGS TO 8'-0" AFF<br>LOCATION: WHERE NOTED |

## CASEWORK SCHEDULE

NOTE: CABINET DESIGN SERIES (CDS) NUMBERS BASED ON AWI STANDARDS EDITION 2

| CDS # | CASEWORK TYPE | DESCRIPTION |
|---|---|---|
| 223 | BASE CAB | 2 FILES |
| ADA | BASE CAB | ADA SINK |

## TOILET ACCESSORIES SCHEDULE

| TAG | DESCRIPTION | COMMENTS |
|---|---|---|
| TA01 | TOILET TISSUE DISP - DBL. STD. ROLL W/SHELF | CFCI |
| TA09 | PAPER TOWEL DISP - AUTO, ROLL, RESIN CABINET, LG | CFCI |
| TA13 | WASTE RECEPTACLE, SURFACE MOUNT, LARGE | CFCI |
| TA19 | SOAP DISP - FOAM, AUTOMATIC | CFCI |
| TA23 | 18" VERTICAL GRAB BAR | CFCI |
| TA24 | 36" HORIZONTAL GRAB BAR | CFCI |
| TA25 | 42" HORIZONTAL GRAB BAR | CFCI |
| TA30 | MIRROR, CHANNEL FRAMED WITHOUT SHELF (18 x 36 INCHES) | CFCI |
| TA36 | SANITARY NAPKIN DISPOSAL - SURF-MT, BOTTOM HINGED | CFCI |
| TA60 | JANITORIAL SHELF | CFCI |

## SPECIALTY EQUIPMENT SCHEDULE

| TAG | DESCRIPTION | COMMENTS |
|---|---|---|
| 51 | MARKER BOARD - 6'-0"W X 4'-0"H | CFCI |
| 52 | 4K SMART TV, SEE INTERIOR ELEVATION FOR ELEC. COORDINATION | OFCI |
| 53 | 2 TIER HEAVY DUTY LOCKER | CFCI |

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GMC ABHM250047

STATE OF ALABAMA
PATRICK SWATEK
8969
REGISTERED ARCHITECT

**FINISH LEGEND & SCHEDULE**

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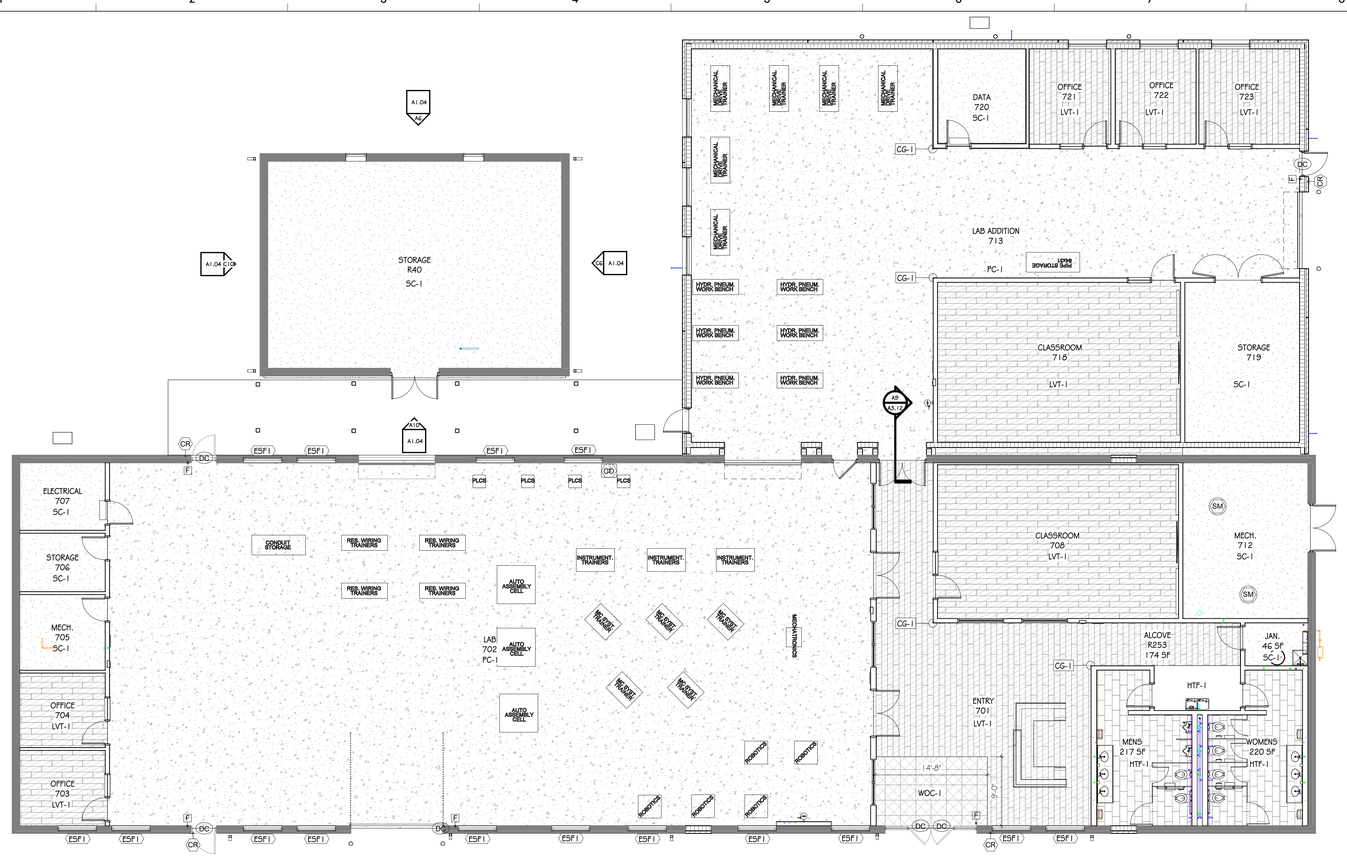
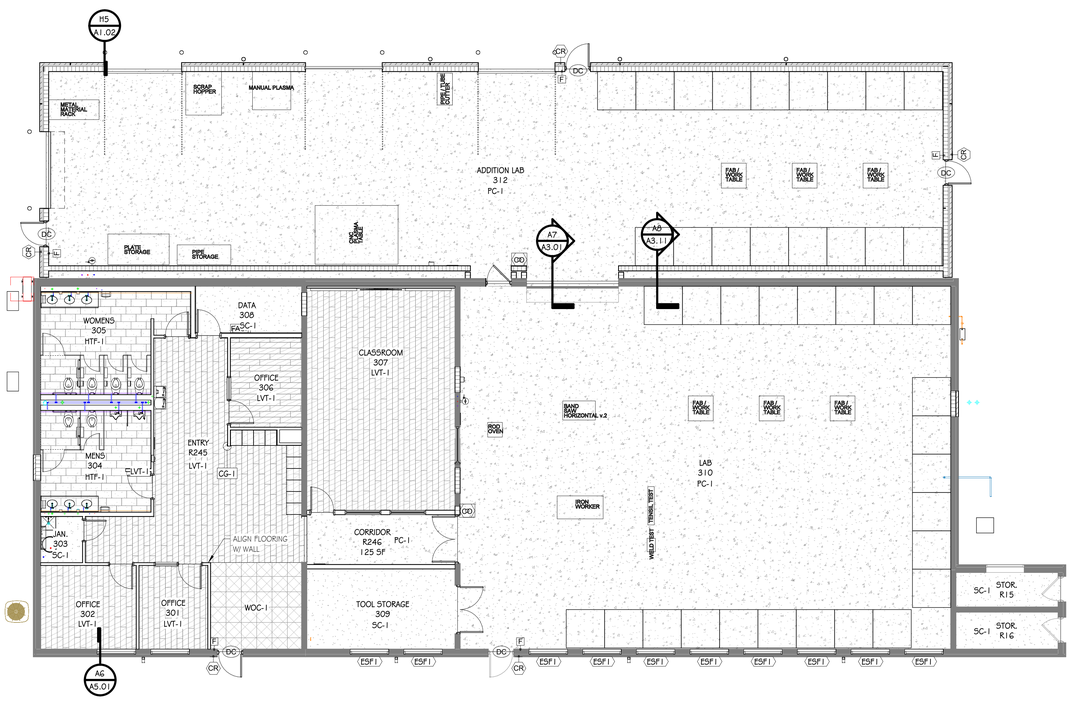
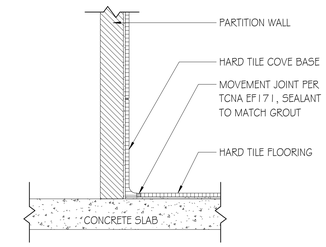



## F5 BUILDING 700 - FINISH PLAN
SCALE: 1/8" = 1'-0"

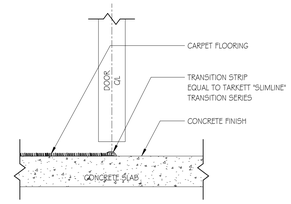



## A1 BUILDING 300 - FINISH PLAN
SCALE: 1/8" = 1'-0"

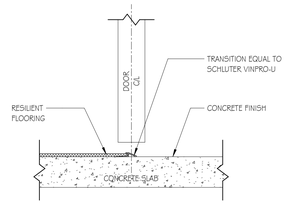
RESTROOM TILE KEY:
- HTW-2
- HTW-3



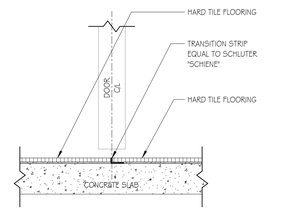

## F11 09- COVE BASE - HARD TILE
SCALE: 3" = 1'-0"



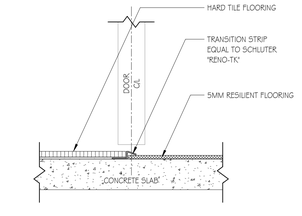

## D8 09- CARPET TO CONCRETE
SCALE: 3" = 1'-0"



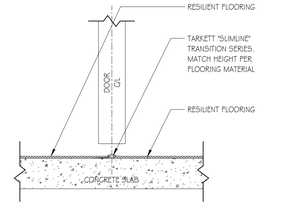

## D11 09- RESILIENT TO CONCRETE - METAL
SCALE: 3" = 1'-0"




## B8 09- HARD TILE TO HARD TILE
SCALE: 3" = 1'-0"

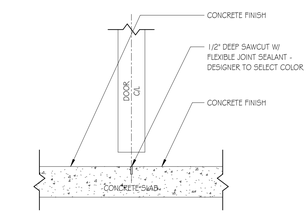



## B11 09- HARD TILE TO 5MM RESILIENT
SCALE: 3" = 1'-0"




NOTE: FOR DIFFERENT HEIGHT RESILIENT ONLY

## A8 09- RESILIENT TO RESILIENT
SCALE: 3" = 1'-0"




NOTE: CLEAN OUT JOINT & PREP FOR SEALANT

## A11 09- POLISHED TO SEALED CONCRETE
SCALE: 3" = 1'-0"

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ACCS 2025 162 RSTCC
GMC ABHM250047

STATE OF ALABAMA
PATRICK SWATEK
8969
REGISTERED ARCHITECT

FINISH PLAN

A8.02

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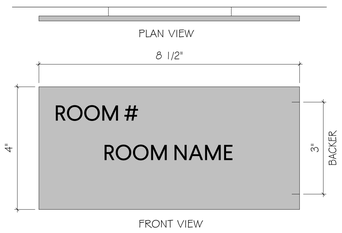
| SIGNAGE SCHEDULE | | | | |
|---|---|---|---|---|
| PLAN NUMBER | PLAN NAME | SIGN TYPE | MESSAGE ROOM NAME | SIGNAGE COMMENTS |
| 301 | OFFICE | A3 | TBD | |
| 302 | OFFICE | A3 | TBD | |
| 303 | JAN. | A2 | CUSTODIAN | |
| 304 | MENS | A6 | MENS | MAN SYMBOL & ADA SYMBOL |
| 305 | WOMENS | A6 | WOMENS | WOMAN SYMBOL & ADA SYMBOL |
| 306 | OFFICE | A3 | TBD | |
| 307 | CLASSROOM | A3 | TBD | |
| 308 | DATA | A2 | DATA | |
| 309 | TOOL STORAGE | A2 | TOOL STORAGE | |
| 310 | LAB | A3 | TBD | |
| 312 | ADDITION LAB | A3 | TBD | |
| 701 | ENTRY | - | - | - |
| 702 | LAB | A3 | TBD | |
| 703 | OFFICE | A3 | TBD | |
| 704 | OFFICE | A3 | TBD | |
| 705 | MECH. | A2 | MECH. | |
| 706 | STORAGE | A2 | STORAGE | |
| 707 | ELECTRICAL | A2 | ELECTRICAL | |

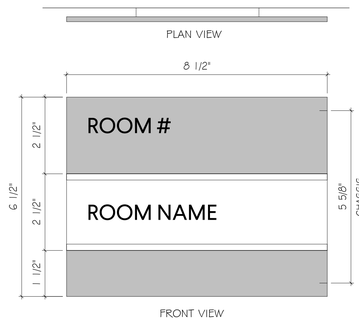
| SIGNAGE SCHEDULE | | | | |
|---|---|---|---|---|
| PLAN NUMBER | PLAN NAME | SIGN TYPE | MESSAGE ROOM NAME | SIGNAGE COMMENTS |
| 708 | CLASSROOM | A3 | TBD | |
| 709 | MENS | A6 | MENS | MAN SYMBOL & ADA SYMBOL |
| 710 | WOMENS | A6 | WOMENS | WOMAN SYMBOL & ADA SYMBOL |
| 711 | JAN. | A2 | CUSTODIAN | |
| 712 | MECH. | A2 | MECH. | |
| 713 | LAB ADDITION | A3 | TBD | |
| 718 | CLASSROOM | A3 | TBD | |
| 719 | STORAGE | A2 | STORAGE | |
| 720 | DATA | A2 | DATA | |
| 721 | OFFICE | A3 | TBD | |
| 722 | OFFICE | A3 | TBD | |
| 723 | OFFICE | A3 | TBD | |
| 724 | TOOL STORAGE | A2 | TOOL STORAGE | |
| R15 | STOR. | A2 | STORAGE | |
| R16 | STOR. | A2 | STORAGE | |
| R40 | STORAGE | A2 | STORAGE | |
| R245 | ENTRY | - | - | - |
| R246 | CORRIDOR | - | - | - |
| R253 | ALCOVE | - | - | - |

# SIGNAGE TYPES:

## BASED ON APCO SIGNS ELEVATE SERIES

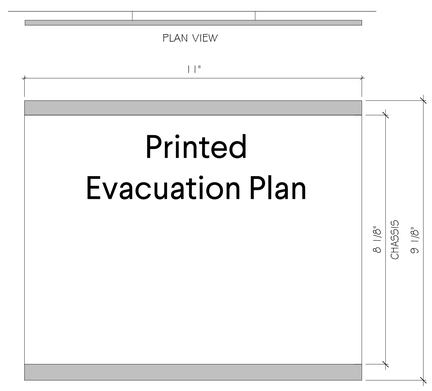



TYPE: A2 (EV85)
SIZE: 4" X 8.5"
MOUNTING: VT
QUANTITY: SEE SCHEDULE




TYPE: A3 (EV85)
SIZE: 8.5" X 6 5/8"
MOUNTING: VT
QUANTITY: SEE SCHEDULE

TYPE: A6 (EV85)
SIZE: 8.5" X 11 5/8"
SYMBOL: A5 REQUIRED
MOUNTING: VT
QUANTITY: SEE SCHEDULE




TYPE: A8 (EV11)
SIZE: 11" X 9 1/8"
MOUNTING: VT
QUANTITY: SEE LIFE SAFETY PLANS

SIGNAGE NOTES:

1. ALL SIGNS TO BE MECHANICALLY FASTENED TO WALL

2. DO NOT USE ROOM NUMBERS ON DRAWINGS - OWNER WILL PROVIDE NEW ROOM NUMBERS

3. ALL ROOM NAMES TO BE VERIFIED WITH OWNER.

4. ROOM SIGNAGE TO BE MOUNTED TO COMPLY WITH ADA 703.4.1. COORDINATE WTH ARCHITECT FOR ANY OBSTRUCTION ISSUES FOR MOUNTING SIGNS.

5. COMPLY WITH STANDARDS FOR ACCESSIBLE DESIGN - INCLUDING BUT NOT LIMITED TO SECTION 7.03. IT IS THE RESPONSIBILITY OF THE SIGNAGE SUPPLIER AND INSTALLER TO MEET ADA REQUIREMENTS FOR SIGNAGE FONT SIZE, BRAILLE TYPE, GRAPHIC SYMBOLS, CONTRAST, MOUNTING HEIGHTS, ETC. SHOP DRAWINGS SHALL CLEARLY ILLUSTRATE COMPLIANCE WITH CURRENT ADA STANDARDS.

6. PROVIDE SIGN PER DOOR FOR EACH ROOM.

GMC

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2400 5th Avenue South, Suite 200
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T 205.879.4462
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ISSUE | DATE
IFB SET | 05/27/2026

DRAWN BY: Author
CHECKED BY: Checker

**REID STATE CC WELDING & INDUSTRIAL RENO.**
100 AL-83, Evergreen, AL 36401

ACCS 2025.162.RSTCC
GMC ABHM250047

STATE OF ALABAMA
PATRICK SWATEK
8969
REGISTERED ARCHITECT

**SIGNAGE PLAN**

**A9.01**

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Provide and Install:

- (40) welding booths (with curtains and tables). Booths are configured as shown on A1.02.
- Properly engineered source-capture weld fume control central system with filtration.
- Mechanical Installation
- Contractor to supply all electrical wiring and connections.
- Contractor to supply compressor and air line connections to the Prism filter.
- Contractor to pour required concrete pad for filtration system and to cut all wall holes for duct routing.

Basis of Design: Lincoln Electric Company (Cleveland, OH).
CONTACT: Mike Clemente
Environmental Systems Engineer
The Lincoln Electric Company
22221 Saint Clair Avenue, Cleveland, OH 44117-2522
E: nike_clemente@lincolnelectric.com

*Source-Capture Extraction Arms*
Requirements:

- Counter-weight mechanism for telescopic movement of the extraction arm. The length of the arm to vary from 4 ft. to 6 ft.
- Spring-balance mechanism for easy movement and positioning of extraction arm.
- The counter-weight and spring-balance mechanisms to be internal to the arm; no external pinch points allowed.
- The hood at the end of the arm must rotate 360 degrees.
- Flex hose in the arm must be reinforced with spring steel wire in a helical geometry and have glass fabric backing and a PVC double face coating.
- Mounting bracket integrated into the top of the extraction arm.
- To be made in the USA.
- BASIS OF DESIGN: Lincoln Electric K1655-15 (Qty. - As required to support 40 welding booths grouped as shown in the drawings.)

*Duct System*
Requirements:

- Provide comprehensive Design Intent Prints. Duct design and layout per ACGIH Recommend Practice and SMACNA Industrial Construction Standards
- Duct drops to extraction arms to be 8 inches in diameter. Flex hose to connect duct drop to top of the arm is not allowed.
- Each duct drop must include a manual damper. This damper is for airflow balancing and is set at the time of system commissioning.
- Fume extraction ductwork to be galvanized steel, spiral duct per SMACNA Class 1, Material Class 26, and 10 in. WG negative pressure.
- Spark Trap to be installed in the incoming duct between the first fume arm and filter unit. Include drop down duct from the Spark Trap to a steel dustbin positioned on the floor.

*Filtration Unit*
Requirements:

- Filters must be cellulose/nano fiber and MERV 16 according to ASHRAE 52.2. Filters to be oriented in the vertical position.
- To be equipped with a compressed air-based internal filter cleaning mechanism. (Clean, dry, oil-free compressed air to be supplied from an external source).
- Filter cleaning cycle to be control by monitoring the differential pressure across the filters and take place either "on-line" or "off-line" as needed.
- Dustbins to be located under each unit to collect dislodged particulate. Dustbins to have a volume of 30 gallons each and wheels.
- Filter bank enclosure to be constructed of heavy gauge steel tubes and channels and heavy gauge steel sheeting.
- Filter bank to have 16 vertically positioned filters.
- All metal components to be painted using the powder coating method.
- To be made in the USA.
- BASIS OF DESIGN: Lincoln Electric L17587-34, L17587-36, or L17587-1 (Qty. - As required to support 40 welding booths grouped as shown in the drawings.)
- BASIS OF DESIGN: Lincoln Electric KP4519-2 (Qty. - As required to support 40 welding booths grouped as shown in the drawings.)
- Filter to be operated and monitored by control panel HMI/PLC. Includes easy-to-use HMI screen for system configuration, operation, monitoring and preventive maintenance. It includes a built-in timer feature to schedule system operation. L18378 (Qty. - As required to support 40 welding booths).

*Central Exhaust Fan*
Requirements:

- Two 30HP fans to be mounted on top of filter bank. Each fan to include matching exhaust silencer.
- Each fan rated 10,200 CFM @ 12 in. WG
- Drive: Direct (no belts)
- Motor Enclosure: TEFC
- Motor Insulation System: Class F
- Input Power: 460/3/60
- Location: Suitable for indoor or outdoor installation
- BASIS OF DESIGN: Lincoln Electric 531229-55 or 531229-53 (Qty. - As required to support 40 welding booths grouped as shown in the drawings.)

*Exhaust Air Silencer*
Requirements:

- Straight silencer to mount directly on outlet of fan.
- Sound level: 75 dBA at 5 ft. at Position B (side of silencer) under "free field" conditions.
- BASIS OF DESIGN: Lincoln Electric 532715-126, 523715-125, or 523715-1265 (Qty. - As required to support 40 welding booths grouped as shown in the drawings.)

*System Control*
Requirements:

- Must include a variable frequency drive (VFD) rated for 60 HP and input power of 460V/3-phase.
- Output from arc sensor control boxes serves as input to IF-15 interfaces. Output from the IF-15 is used as input to the PLC. Signal from PLC indicates how many booths are in operation and the VFD uses this information to set speed of fan to deliver required airflow.
- BASIS OF DESIGN: Lincoln Electric VFD: AD1283-60 (Qty. - As required to support 40 welding booths grouped as shown in the drawings.)
- BASIS OF DESIGN: Lincoln Electric IF-15: 523385-37 (Qty. - As required to support 40 welding booths grouped as shown in the drawings.)
- BASIS OF DESIGN: Lincoln Electric PLC: G3207-303 (Qty. - As required to support 40 welding booths grouped as shown in the drawings.)

*Welding Booths and Curtains*
Requirements:

- 40 Welding booths, 5'x5' each interior dimension. Booths are configured as shown on A1.02. Adjacent booths share dividing panels
- Interior size of booths: 5 ft. x 5 ft. x 7.5 ft. (d x w x h).
- Booths have three walls and are free standing.
- Panels constructed from 16-gauge sheet metal and 11-gauge angle frame; 2 in. x 2 in. steel posts with pre-drilled pads for securing to the floor. Distance from bottom of panels to floor - 18 inches.
- Powder-coated anti-reflective black finish paint to reduce the propagation of arc flash (ultraviolet radiation) to adjacent welding and other personnel.
- Each booth shall be equipped with an arc flash protection curtain fully covering the entrance to the booth. These curtains shall be constructed of overlapping heavy-duty red-orange-colored strips of approved material such that they block harmful UV rays emanating from the welding arc. Curtains to be compliant with AWS F2.3m-2011. Strips shall be mounted at the same height as the top of the booth walls and hang down a length of 66 inches. BASIS OF DESIGN: Lincoln Electric K5249-2 (Qty. - As required to support 40 welding booths grouped as shown in the drawings.)
- Include bracket to mount extraction arm to top of welding booth wall.
- Include booth assist: K5319-1 (Qty. - As required to support 40 welding booths grouped as shown in the drawings.)
- Booths to be made in the USA.

*Welding Tables and Stools*
Requirements:

- Floor mounted stand, height adjustable half-circle table (32 in. diameter) with underneath storage and height adjustable 25 in. long welding fixture.
- Table to be of welded steel construction. Painted black.
- To be made in the USA.
- BASIS OF DESIGN: Lincoln Electric K5248-6 (Qty. - As required to support 40 welding booths grouped as shown in the drawings.)

*LED Booth Lights*
Requirements:

- LED light bars mounted on each booth side wall. Lighted length of bar is approximately 33 inches. Provided on/off switch normally mounted to booth corner post. Requires 115V/1-ph power. BASIS OF DESIGN: Lincoln Electric AD1389-20 (Qty. - As required to support 40 welding booths grouped as shown in the drawings.)

*Fume Exhaust Hood Over Existing Plasma Table*
Requirements:

- Fume exhaust hood to cover a plasma table that is 92"x130".
- Hood construction to be polycarbonate material
- Two 12" exhaust outlets in hood.
- Fume Hood to be tied into central fume system.
- Hood to be supported by legs 10 ft high.
- 12" Strip curtains to be hung around perimeter of hood. Each strip is 8' long.
- LED light bar with on/off switch to be mounted inside of hood.
- Automatic damper to hood to be controlled by switch.

*System Commissioning*
Requirements:

- To be performed on-site by a qualified field service technician experienced in airflow balancing.
- To include airflow balancing, programming of VFD and filter cleaning control, system operation verification and training of owner's staff.
- Extraction arms balanced to 650 CFM per arm.
- To take place after system installation is complete including all mechanical and electrical work.

*General*
Requirements:

- Unload and install equipment and duct system in a timely manner per construction schedule.
- Wiring and connections to be completed by General Contractor.
- Provide two sets of instruction manuals, data sheets and other supporting documentation in 3-ring binder. One set per binder. Deliver binders with equipment.
- No less than three (3) year warranty on weld fume control system equipment and welding booths. No less than 30-day warranty on filters.
- Manufacturer to submit engineered shop drawings for General Contractor & Architect to review and approve.
- General Contractor to submit Equipment Data for all products being supplied to the project.
- General Contractor to coordinate all related trades to provide complete and operational systems. Confirm Voltage and phase requirements for all equipment provided in this package and coord with electrical installer. Prior to purchase of any Electrical or Mechanical equipment.

Related Requirements:

- Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections apply to these notes for all equipment.

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ISSUE | DATE
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DRAWN BY: Author
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**REID STATE CC WELDING & INDUSTRIAL RENO.**
100 AL-83, Evergreen, AL 36401

ACCS 2025 162 RSTCC
GMC ABHM250047

STATE OF ALABAMA
PATRICK SWATEK
8969
REGISTERED ARCHITECT

**EQUIPMENT SPECIFICATIONS - WELDING**

**A9.11**

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TUCKER-JONES
3300 CAHABA ROAD, SUITE 210
BIRMINGHAM, ALABAMA 35223
PHONE: 205.879.5660
FAX: 205.879.5606
PROJECT #25112

## 1. GENERAL NOTES:

1.1. CODES AND SPECIFICATIONS:

A. GENERAL BUILDING CODE:
INTERNATIONAL BUILDING CODE, 2021 EDITION.

B. ASCE 7-16: MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES.

C. CONCRETE:
BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE, ACI 318-19.

D. STRUCTURAL STEEL:
SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS, AMERICAN INSTITUTE OF STEEL CONSTRUCTION, AISC 360-16, ALLOWABLE STRESS DESIGN (ASD)

E. STEEL JOISTS:
STANDARD SPECIFICATIONS, LOAD TABLES AND WEIGHT TABLES FOR STEEL JOISTS AND JOIST GIRDERS, STEEL JOIST INSTITUTE, SJI 100-20.

F. STEEL DECK:
STEEL DECK INSTITUTE DESIGN STANDARDS FOR NON-COMPOSITE STEEL FLOOR DECK, STEEL ROOF DECK, COMPOSITE STEEL FLOOR DECK-SLABS, AND QUALITY CONTROL AND QUALITY ASSURANCE FOR INSTALLATION OF STEEL DECK, ANSI/SDI-17 .

G. MASONRY:
1. BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES, TMS 402-16.
2. SPECIFICATIONS FOR MASONRY STRUCTURES, TMS 602-16.

H. COLD-FORMED METAL FRAMING:
NORTH AMERICAN SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS, AMERICAN IRON AND STEEL INSTITUTE, AISI S100-16.

1.2. THE GENERAL NOTES ARE NOT A SUBSTITUTE OR A REPLACEMENT FOR THE PROJECT SPECIFICATIONS. THESE NOTES ARE INTENDED AS A GUIDE TO THE DESIGN AND/OR CONSTRUCTION REQUIREMENTS ESTABLISHED FOR THIS PROJECT. NO CONTRACTOR SHOULD ATTEMPT TO DESIGN, BID, OR CONSTRUCT ANY PORTION OF THE WORK HEREIN WITHOUT CONSULTING THE PROJECT SPECIFICATIONS. THE MORE STRINGENT REQUIREMENT SHALL APPLY WHERE CONFLICTS OCCUR BETWEEN THESE NOTES AND THE SPECIFICATIONS, UNLESS A WRITTEN CLARIFICATION IS ISSUED BY THE STRUCTURAL ENGINEER.

1.3. STRUCTURAL DRAWINGS ARE INTENDED TO BE USED IN CONJUNCTION WITH THE DRAWINGS OF OTHER CONSULTANTS AND TRADES. THE CONTRACTOR SHALL COORDINATE THE VARIOUS REQUIREMENTS.

1.4. DO NOT SCALE THESE DRAWINGS.

1.5. ALL DETAILS SHOWN ARE TYPICAL. SIMILAR DETAILS APPLY TO SIMILAR CONDITIONS, UNLESS NOTED.

1.6. CONTRACTOR SHALL REVIEW AND VERIFY ALL DIMENSIONS AND SITE CONDITIONS PRIOR TO FABRICATION/CONSTRUCTION. THE STRUCTURAL ENGINEER AND ARCHITECT SHALL BE NOTIFIED OF ANY DISCREPANCIES PRIOR TO FABRICATION/CONSTRUCTION.

1.7. VERIFY ELEVATOR PIT DIMENSIONS, LOCATIONS, LOADINGS, AND DETAILS WITH THE ELEVATOR SUPPLIER PRIOR TO THE FABRICATION AND/OR INSTALLATION OF ANY MATERIAL.

1.8. FIREPROOFING OF STRUCTURAL ELEMENTS IS NOT SHOWN ON THE STRUCTURAL DRAWINGS. REFER TO THE DRAWINGS OF OTHER CONSULTANTS FOR SUCH INFORMATION.

1.9. ALL ARCHITECTURAL AND UTILITY HALFTONE BACKGROUNDS ON PLANS, SECTIONS, AND ELEVATIONS ARE FOR REFERENCE ONLY AND ARE NOT UNDER THE PROFESSIONAL ENGINEERING SEAL RELATED TO THE STRUCTURAL ELEMENTS INDICATED IN THESE DRAWINGS. REFERENCE ARCHITECTURAL AND UTILITY DRAWINGS FOR NON-STRUCTURAL ELEMENTS INDICATED.

## 2. SPECIAL INSPECTIONS: (BY TESTING AGENCY)

2.1. SPECIAL INSPECTOR (SI) SHALL BE RETAINED AND PAID BY THE OWNER.

2.2. THE SPECIAL INSPECTOR SHALL BE FULLY QUALIFIED, APPROVED BY THE BUILDING OFFICIAL, REGISTERED BY APPLICABLE REGISTRATION BOARD IF REQUIRED AND ACCEPTABLE TO THE ARCHITECT.

2.3. THE DUTIES OF THE SPECIAL INSPECTOR SHALL INCLUDE, BUT ARE NOT LIMITED TO, VERIFICATION OF CONSTRUCTION QUALITY CONTROL, TESTING, COMPLIANCE WITH THE CONSTRUCTION DOCUMENTS, BUILDING CODE REQUIREMENTS, AND LOCAL BUILDING DEPARTMENT REQUIREMENTS.

2.4. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE PROPER NOTIFICATION TO THE SPECIAL INSPECTOR AND PROCEED WITH THE CONSTRUCTION ONLY AFTER THE SPECIAL INSPECTOR'S REVIEW AND APPROVAL.

2.5. SPECIAL INSPECTOR'S SHALL KEEP RECORDS OF ALL INSPECTIONS AND TESTING. THE SPECIAL INSPECTOR SHALL FURNISH INSPECTION REPORTS TO THE CODE OFFICIAL, AND TO THE REGISTERED DESIGN PROFESSIONAL OF RECORD. ALL DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR FOR CORRECTION. IF THE DISCREPANCIES ARE NOT CORRECTED, THE DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE CODE OFFICIAL AND THE DESIGN PROFESSIONAL OF RECORD. A FINAL REPORT OF INSPECTIONS DOCUMENTING COMPLETION OF ALL REQUIRED SPECIAL INSPECTION AND CORRECTION OF ANY DISCREPANCIES NOTED IN THE INSPECTIONS SHALL BE SUBMITTED PRIOR TO THE ISSUANCE OF A CERTIFICATE OF OCCUPANCY. INTERIM REPORTS SHALL BE SUBMITTED PERIODICALLY WITH MINIMUM FREQUENCY OF TWO WEEKS.

2.6. SPECIAL INSPECTIONS ARE REQUIRED FOR, BUT NOT LIMITED TO, THE ACTIVITIES AS INDICATED ON SHEET S1.02 PER THE 2021 INTERNATIONAL BUILDING CODE.

2.7. FAILURE TO NOTIFY THE SPECIAL INSPECTOR MAY RESULT IN THE CONTRACTOR HAVING TO REMOVE WORK FOR THE PURPOSE OF INSPECTION AT THE CONTRACTOR'S EXPENSE. PREMATURE NOTIFICATION FOR INSPECTIONS WILL RESULT IN AN ADDITIONAL INSPECTION WITH THE EXPENSES AND FEES PAID BY THE CONTRACTOR.

## 3. INSPECTION AND TESTING NOTES:

3.1. AN INDEPENDENT TESTING LABORATORY SHALL BE RETAINED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS TO PERFORM TESTING OF FOUNDATION BEARING STRATA, ENGINEERED FILLS, CONCRETE, GROUT, STEEL, AND WELDING. SEE PROJECT SPECIFICATIONS FOR REQUIREMENTS.

3.2. THE TESTING AGENCY SHALL VERIFY THAT ALL WELDERS HAVE SATISFACTORILY PASSED AWS QUALIFICATION TESTS FOR THE WELDS WHICH THEY WILL PERFORM.

3.3. THE CONTRACTOR AND TESTING AGENCY SHALL REQUIRE THAT AWS QUALIFICATION TESTS FOR WELDING OF MATERIAL LESS THAN 1/8" IN THICKNESS ARE SATISFACTORILY PASSED BY WELDERS EXPECTED TO ERECT LIGHTGAGE FRAMING MATERIALS. THESE TESTS ARE NOT THE SAME AS FOR MATERIALS 1/8" OR GREATER IN THICKNESS (I.E. STRUCTURAL STEEL MATERIALS).

3.4. ALL WELDING SHALL BE INSPECTED AND TESTED IN ACCORDANCE WITH AWS D1.1 OR D1.3 AS APPROPRIATE TO THE MATERIAL THICKNESS.

3.5. THE TESTING AGENCY SHALL VERIFY THAT THE METAL DECK IS ATTACHED TO THE STRUCTURAL STEEL IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND APPROVED SHOP DRAWINGS.

3.6. CONCRETE TESTING SHALL BE IN ACCORDANCE WITH ACI 301 CHAPTER 16 AND WITH THE PROJECT SPECIFICATIONS.

## 4. CONSTRUCTION AND SAFETY:

4.1. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR ALL SAFETY REGULATIONS, PROGRAMS, AND PRECAUTIONS TO ALL WORK, PERSONS, AND PROPERTY ON AND/OR ADJACENT TO THE PROJECT AND SHALL PROTECT AGAINST ANY DAMAGE, INJURY, OR LOSS.

4.2. MEANS AND METHODS OF CONSTRUCTION AND ERECTION OF STRUCTURAL MATERIALS ARE SOLELY THE CONTRACTOR'S RESPONSIBILITY.

4.3. THE CONTRACTOR IS RESPONSIBLE FOR LIMITING THE AMOUNT OF CONSTRUCTION LOAD IMPOSED ON THE STRUCTURE. SUCH LOADS SHALL NOT EXCEED THE DESIGN LOAD OF THE STRUCTURE AT ANY TIME.

4.4. THE STRUCTURE IS DESIGNED TO FUNCTION AS A UNIT UPON COMPLETION, AND ANY TEMPORARY BRACING OR SUPPORT REQUIRED TO ACCOMMODATE THE CONTRACTOR'S MEANS AND METHODS ARE THE RESPONSIBILITY OF THE CONTRACTOR.

## 5. SUBMITTALS:

5.1. ALL SHOP DRAWINGS MUST BE REVIEWED FOR "APPROVAL" AND STAMPED BY THE GENERAL CONTRACTOR PRIOR TO SUBMITTAL.

5.2. SUBMIT EACH SET OF SHOP DRAWINGS DIGITALLY. THE REVIEWED PDF FILE WILL BE RETURNED TO THE CONTRACTOR

5.3. THE GENERAL CONTRACTOR SHALL SUBMIT, FOR ENGINEER REVIEW, SHOP DRAWINGS FOR THE FOLLOWING ITEMS. ITEMS MARKED (*) SHALL HAVE SHOP DRAWINGS SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE IN WHICH THE PROJECT IS LOCATED. ITEMS MARKED (#) SHALL BE SUBMITTED FOR ENGINEER 'S RECORD ONLY.

A. STRUCTURAL STEEL (*)
B. STEEL JOISTS (*)
C. REINFORCING STEEL
D. STEEL DECK (*)
E. CONCRETE MIX DESIGNS

5.4. DESIGN CALCULATIONS: THE GENERAL CONTRACTOR SHALL SUBMIT FOR ENGINEER'S REVIEW TWO SETS OF DESIGN CALCULATIONS SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE IN WHICH THE PROJECT IS LOCATED, FOR THE FOLLOWING ITEMS:

A. STRUCTURAL STEEL CONNECTIONS
B. STEEL JOISTS

## 6. DESIGN LOADS:

6.1. DEAD LOADS: ANY CHANGES IN CONSTRUCTION MATERIALS FROM THOSE SHOWN ON THE ARCHITECTURAL OR STRUCTURAL DRAWINGS SHALL BE REPORTED BY THE GENERAL CONTRACTOR TO THE STRUCTURAL ENGINEER FOR VERIFICATION OF LOAD-CARRYING CAPACITY OF THE STRUCTURE.

6.2. LIVE LOADS: LIVE LOAD REDUCTIONS HAVE BEEN APPLIED TO THE STRUCTURAL MEMBERS IN ACCORDANCE WITH THE BUILDING CODE.

ROOF ---------- 20 PSF

6.3. SNOW LOAD:

A. GROUND SNOW LOAD (Pg.) ---------- 5 PSF
B. IMPORTANCE FACTOR (I) ---------- 1.10
C. EXPOSURE FACTOR (Ce) ---------- 1.0
D. THERMAL FACTOR (Ct) ---------- 1.0
E. SLOPE FACTOR (Cs) ---------- 1.0
F. FLAT ROOF SNOW LOAD (Pf) ---------- 9 PSF
G. SNOW DRIFT ---------- SEE TYPICAL DETAILS

6.4. WIND LOADS:

A. BASIC WIND SPEED (3-SECOND GUST) ---------- 137 MPH
B. RISK CATEGORY ---------- III
C. WIND EXPOSURE ---------- C
D. INTERNAL PRESSURE COEFFICIENT ---------- +/- 0.18
E. COMPONENTS AND CLADDING PRESSURES ----------SEE TYPICAL DETAILS

6.5. SEISMIC LOADS:

A. RISK CATEGORY ---------- III
B. SEISMIC IMPORTANCE FACTOR ---------- 1.25
C. MAPPED SPECTRAL RESPONSE ACCELERATIONS:
Ss---------- 0.106
S1---------- 0.067
SITE CLASS---------- D
SPECTRAL RESPONSE COEFFICIENTS:
Sds---------- 0.113
Sd1---------- 0.107
D. SEISMIC DESIGN CATEGORY---------- B
BASIC SEISMIC-FORCE RESISTING SYSTEM:
ORDINARY REINFORCED MASONRY SHEAR WALLS
DESIGN BASE SHEAR:
BUILDING 300---------- 15 KIPS
BUILDING 700---------- 15 KIPS
E. SEISMIC RESPONSE COEFFICIENT (Cs)---------- 0.056
F. RESPONSE MODIFICATION FACTOR (R)---------- 2
G. ANALYSIS PROCEDURE:
EQUIVALENT LATERAL FORCE METHOD

## 7. FOUNDATION NOTES:

7.1. GEOTECHNICAL REPORT: FOUNDATION DESIGN IS BASED ON THE GEOTECHNICAL REPORT BY GMC, TITLED "REPORT OF GEOTECHNICAL EXPLORATION: RSTC WELDING AND INDUSTRIAL RENOVATIONS: BUILDING 300 AND 700 ADDITIONS; EVERGREEN, CONECUH COUNTY, ALABAMA; DATED MAY 22, 2026; GMC PROJECT NO. GBHM260023". THE GENERAL CONTRACTOR SHALL OBTAIN A COPY OF THE GEOTECHNICAL REPORT FROM THE OWNER AND FOLLOW ALL REQUIREMENTS WITHIN THE RECOMMENDATIONS SECTION.

7.2. MAXIMUM BEARING PRESSURES (PSF):
TYPICAL ---------- 2000

7.3. ALL FOUNDATION BEARING SURFACES SHALL BE REVIEWED BY THE GEOTECHNICAL ENGINEER PRIOR TO PLACING CONCRETE TO ENSURE THEIR COMPLIANCE WITH PRESSURES NOTED. ALL BOTTOM ELEVATIONS ARE ESTIMATED AND MAY BE ADJUSTED IN THE FIELD BY THE GEOTECHNICAL ENGINEER.

7.4. VERY LOOSE TO LOOSE SANDS AND SOFT SANDY LEAN CLAY IS PRESENT AT BUILDING 700 SITE AND IS NOTED ACCORDINGLY IN THE GEOTECHNICAL REPORT. THE CONTRACTOR SHOULD EXPECT UNDERCUTTING AND COMPACTED FILL REPLACEMENT. THE FINAL EXTENT OF UNDERCUTTING AND COMPACTED FILL REPLACEMENT SHOULD BE DETERMINED BY THE GEOTECHNICAL ENGINEER. COMPACTED FILL REQUIREMENTS SHALL BE IN ACCORDANCE WITH THE GEOTECHNICAL REPORT.

7.5. ALL AREAS TO HAVE SLABS ON GRADE SHALL BE PROOF ROLLED IN ACCORDANCE WITH THE GEOTECHNICAL REPORT UNDER OBSERVATION OF THE GEOTECHNICAL ENGINEER AND APPROVED PRIOR TO PREPARATION FOR CONCRETE PLACEMENT.

7.6. COMPACTED FILL WITHIN THE BUILDING AREA SHALL MEET THE REQUIREMENTS NOTED IN THE GEOTECHNICAL REPORT.

7.7. BACKFILL FOR FOUNDATION AND RETAINING WALLS SHALL BE A FREE DRAINING GRANULAR MATERIAL, SUCH AS SIZE #57 STONE. BACKFILL SHALL BE COMPACTED SUFFICIENTLY TO PREVENT SUBSIDENCE OF SURFACE ADJACENT TO WALL. THE GRANULAR MATERIAL SHALL BE PLACED IN A 45 DEGREE WEDGE EXTENDING FROM THE BASE OF THE WALL (TOP OF FOOTING) TO WITHIN 1'-0" OF FINISHED GRADE.

## 8. CONCRETE NOTES:

8.1. CONCRETE COMPRESSIVE STRENGTH AT 28 DAYS:
4000 PSI NORMAL WT. - TYPICAL.

8.2. PEDESTAL, COLUMN AND WALL VERTICAL REINFORCING: DOWEL TO FOUNDATION WITH HOOKED BARS OF SAME SIZE AND SPACING AS VERTICAL REINFORCING.

8.3. EARTH SUPPORTED SLABS:

A. 4" THICK, REINFORCED WITH 6X6 W2.9/W2.9 WWR (SHEETS) AT TOP THIRD OF SLAB DEPTH, UNLESS NOTED.
B. 6" THICK, REINFORCED WITH 6X6 W2.9/W2.9 WWR (SHEETS) AT TOP THIRD OF SLAB DEPTH, UNLESS NOTED.

8.4. HIGH DENSITY FOAM SUPPORTED SLABS: 4" THICK, REINFORCED WITH 6X6 W2.9/W2.9 WWR (SHEETS) AT TOP THIRD OF SLAB DEPTH, UNLESS NOTED.

8.5. CONCRETING OPERATIONS SHALL COMPLY WITH ACI STANDARDS.

## 9. CONCRETE REINFORCING STEEL NOTES:

9.1. REINFORCING BARS: ASTM A615 GRADE 60.

9.2. WELDED WIRE REINFORCEMENT (WWR): ASTM A1064. MINIMUM LAP AND EMBEDMENT TO BE THE GREATER OF ONE CROSS WIRE SPACING PLUS 2 INCHES OR 6 INCHES.

9.3. REINFORCING STEEL SHOWN IN SECTIONS IS A SCHEMATIC INDICATION THAT REINFORCING EXISTS. SEE SCHEDULES, SECTION NOTES AND GENERAL NOTES FOR ACTUAL REINFORCING REQUIRED.

9.4. REINFORCING BAR PLACING ACCESSORIES IN ACCORDANCE WITH ACI MANUAL OF STANDARD PRACTICE. WHERE CONCRETE IS EXPOSED IN FINISHED BUILDING, PROVIDE ACCESSORIES WITH RUSTPROOF LEGS. WHERE CONCRETE IS SAND-BLASTED OR BUSH-HAMMERED, PROVIDE ACCESSORIES OF STAINLESS STEEL.

9.5. DETAIL REINFORCEMENT IN ACCORDANCE WITH ACI 315. REINFORCEMENT SHALL NOT BE WELDED UNLESS NOTED OR APPROVED BY THE ENGINEER.

9.6. ALL SPLICES SHALL BE CLASS "B" TENSION LAP SPLICE, UNLESS NOTED.

9.7. ALL REINFORCING MARKED "CONTINUOUS" SHALL BE SPLICED WITH CLASS "B" TENSION LAP SPLICE, UNLESS NOTED.

9.8. PROVIDE CORNER BARS WITH CLASS "B" LAP SPLICE AT ALL FOUNDATION INTERSECTIONS AND CORNERS.

9.9. CONCRETE COVERAGE OF REINFORCEMENT (UNO ON DRAWINGS):
FOOTINGS----------3" BOTTOM & SIDES, 2" TOP
PEDESTALS----------1-1/2" CLEAR OF TIES

9.10. FIELD BENDING OF CONCRETE REINFORCING STEEL IS NOT PERMITTED WITHOUT WRITTEN APPROVAL OF THE STRUCTURAL ENGINEER.

## 10. STRUCTURAL STEEL NOTES:

10.1. STRUCTURAL STEEL: ASTM A992 FOR WIDE FLANGE SHAPES; ASTM A36 ELSEWHERE.

10.2. HOLLOW STRUCTURAL SECTIONS: ASTM A500, GRADE B.

10.3. WELDED CONNECTIONS: E70XX ELECTRODES, MINIMUM SIZE FILLET WELD 3/16".

10.4. HEADED ANCHOR RODS: ASTM F1554 GRADE 55 AND HEAVY HEX NUT, UNLESS OTHERWISE INDICATED.

10.5. BOLTED CONNECTIONS: ASTM F3125 GRADE A325-N IN ACCORDANCE WITH AISC "SPECIFICATION FOR STRUCTURAL JOINTS USING HIGH STRENGTH BOLTS." BOLTS THROUGH 4" WIDE BEAM FLANGES SHALL BE 5/8" DIAMETER. OTHER BOLTS SHALL BE 3/4" DIAMETER. USE SLIP-CRITICAL CONNECTIONS FOR WIND FRAMES, MOMENT CONNECTIONS, SKYLIGHT FRAMING AND OTHER CONNECTIONS NOTED AS SLIP-CRITICAL. USE SNUG TIGHT BEARING CONNECTIONS FOR ALL OTHER BOLTED CONNECTIONS.

10.6. BOLTS SHOWN IN SECTIONS AND DETAILS ARE A SCHEMATIC INDICATION THAT BOLTS MAY BE USED. ACTUAL NUMBER, UNLESS SPECIFIED, TO BE IN ACCORDANCE WITH AISC.

10.7. ALL STRUCTURAL STEEL CONNECTIONS NOT SPECIFICALLY DETAILED ON THE DRAWINGS SHALL BE DESIGNED TO RESIST FORCES INDICATED, PROVIDED BY THE CONTRACTOR, UNDER THE DIRECT SUPERVISION OF A PROFESSIONAL ENGINEER REGISTERED IN THE STATE IN WHICH THE PROJECT IS LOCATED.

10.8. DESIGN CALCULATIONS FOR THE CONNECTIONS SHALL BE PROVIDED BY THE CONTRACTOR AND DESIGNED BY A PROFESSIONAL ENGINEER. CALCULATIONS SHALL BEAR THE SEAL OF A PROFESSIONAL ENGINEER REGISTERED IN THE STATE IN WHICH THE PROJECT IS LOCATED AND SHALL BE SUBMITTED FOR THE FILES OF THE ARCHITECT AND ENGINEER. THE CONNECTION DESIGNER SHALL REVIEW THE CONNECTIONS INDICATED IN THE SHOP DRAWINGS TO ENSURE THE SHOP DRAWINGS CONFORM WITH THE CONNECTION DESIGN CALCULATIONS. SHOP DRAWINGS CONTAINING CONNECTIONS FOR WHICH CALCULATIONS HAVE NOT BEEN RECEIVED WILL BE RETURNED UNCHECKED AS AN INCOMPLETE SUBMITTAL.

10.9. ALL NON-COMPOSITE BEAM CONNECTIONS SHALL BE "SIMPLE SHEAR CONNECTIONS" UNLESS NOTED. WHERE BEAM REACTIONS ARE NOT SHOWN ON THE DRAWINGS, THE CONNECTIONS SHALL BE DESIGNED TO SUPPORT A REACTION EQUAL TO ONE-HALF THE TOTAL UNIFORM LOAD CAPACITY FROM THE MAXIMUM TOTAL UNIFORM LOAD TABLE MULTIPLIED BY A FACTOR OF 1.2 FOR GIVEN SHAPE, SPAN, AND GRADE OF STEEL.

10.10. WHERE BEAM REACTIONS ARE SHOWN ON THE DRAWINGS, THE CONNECTIONS SHALL DEVELOP THE REACTIONS SHOWN. WHERE CONNECTIONS ARE SUBJECT TO ECCENTRICITY, SUCH ECCENTRICITY SHALL BE TAKEN INTO ACCOUNT WHEN DESIGNING AND DETAILING THE CONNECTION.

10.11. FABRICATE AND ERECT ALL STRUCTURAL STEEL IN ACCORDANCE WITH AISC "CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES."

10.12. WHERE STEEL BEAMS ARE CONTINUOUS OVER COLUMNS, PROVIDE WEB STIFFENER PLATES ON EACH SIDE OF THE BEAM WEB, OF THICKNESS EQUAL TO THE BEAM FLANGE THICKNESS, LOCATED IN ALIGNMENT WITH COLUMN WEB OR FLANGES OR CENTER LINE OF TUBES AND PIPE COLUMNS.

10.13. FABRICATE CROSS BRACING WITH SUFFICIENT DRAW TO PREVENT SAGGING.

10.14. ALL COLUMN ANCHOR ROD HOLES TO BE OVERSIZED AS REQUIRED. THE MAXIMUM HOLE SIZE FOR ANCHOR RODS IN BASE PLATES SHALL CONFORM TO THE REQUIREMENTS LISTED IN TABLE 14-2 OF THE AISC STEEL CONSTRUCTION MANUAL. PLATE WASHERS ARE REQUIRED WITH ALL OVERSIZED HOLES AND SHALL MEET THE MINIMUM DIMENSIONS LISTED IN TABLE 14-2.

10.15. THE STEEL FRAME IS "NON-SELF-SUPPORTING". ADEQUATE TEMPORARY SUPPORT MUST BE PROVIDED BY THE CONTRACTOR UNTIL REQUIRED CONNECTIONS OR ELEMENTS ARE IN PLACE.

10.16. ALL CONNECTION DESIGN FORCES PROVIDED HAVE BEEN FACTORED USING ASD COMBINATIONS, UNO.

10.17. ALL EXPOSED STRUCTURAL STEEL SHALL BE ARCHITECTURALLY EXPOSED STRUCTURAL STEEL (AESS) AND SHALL COMPLY WITH FABRICATION REQUIREMENTS, INCLUDING TOLERANCE LIMITS OF AISC'S "CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES" FOR STRUCTURAL STEEL IDENTIFIED AS ARCHITECTURALLY EXPOSED STRUCTURAL STEEL.

A. FABRICATE WITH EXPOSED SURFACES SMOOTH, SQUARE, AND FREE OF SURFACE BLEMISHES INCLUDING RUST, SCALE, SEAM MARKS, ROLLER MARKS, ROLLED TRADE NAMES AND ROUGHNESS.
B. REMOVE BLEMISHES BY FILLING AND GRINDING OR BY WELDING AND GRINDING, BEFORE CLEANING, TREATING, AND SHOP PRIMING.

## 11. STEEL JOIST NOTES:

11.1. DESIGN, FABRICATE, AND ERECT STEEL JOISTS IN ACCORDANCE WITH THE STEEL JOIST INSTITUTE.

11.2. PROVIDE A MINIMUM END BEARING ON STEEL SUPPORTS AS REQUIRED BY THE STEEL JOIST INSTITUTE. STAGGER THE ENDS OF JOIST IF NECESSARY AND GENERAL CONTRACTOR COORDINATE METAL DECK SPLICE LOCATION TO CENTER OVER JOIST.

11.3. PROVIDE HORIZONTAL AND DIAGONAL BRIDGING IN ACCORDANCE WITH SJI TO PROVIDE ADEQUATE JOIST CHORD BRACING.

11.4. AT JOIST PARALLEL TO MASONRY WALL, WELD EACH BRIDGING ROW TOP AND BOTTOM TO AN ANGLE L3X3X3/16X0'-6". ANCHOR ANGLE WITH TWO 3/8" DIAMETER SLEEVE ANCHORS WITH A TWO-INCH EMBEDMENT INTO WALL.

11.5. AT JOISTS PARALLEL TO BEAMS, ANCHOR BRIDGING ROWS BY WELDING TO BEAMS.

11.6. DESIGN ROOF JOISTS TO RESIST THE FOLLOWING WIND NET UPLIFT PRESSURES:

A. SEE SHEET S1.05 FOR UPLIFT PRESSURES.
B. USE EFFECTIVE DEAD LOAD OF 5 PSF TO CALCULATE NET UPLIFT WIND LOADS.

## 12. STEEL DECK NOTES:

12.1. DECK PROPERTIES AND ATTACHMENTS SHALL BE IN ACCORDANCE WITH THE STEEL DECK INSTITUTE.

12.2. DECK SHALL BE CONTINUOUS OVER THREE OR MORE SPANS.

12.3. ROOF DECK:

A. BUILDING 300: WIDE RIB TYPE "WR", STEEL ROOF DECK, 20 GA. 1-1/2" DEEP, GALVANIZED.
1. ROOF DECK ATTACHMENT: ATTACH ROOF DECK TO SUPPORTS WITH HILTI X-HSN 24 FASTENERS ON A 36/5 PATTERN WITH (6) HILTI S-SLC 02 M HWH SIDELAP CONNECTORS PER SPAN. PROVIDE HILTI X-ENP-19 FASTENERS WHERE BASE MATERIAL IS GREATER THAN 3/8" THICK.

B. BUILDING 700: WIDE RIB TYPE "WR", STEEL ROOF DECK, 20 GA. 1-1/2" DEEP, GALVANIZED.
1. ROOF DECK ATTACHMENT: ATTACH ROOF DECK TO SUPPORTS WITH HILTI X-HSN 24 FASTENERS ON A 36/5 PATTERN WITH (4) HILTI S-SLC 02 M HWH SIDELAP CONNECTORS PER SPAN. PROVIDE HILTI X-ENP-19 FASTENERS WHERE BASE MATERIAL IS GREATER THAN 3/8" THICK.

12.4. LIGHTGAGE METAL FRAMING, SUSPENDED CEILINGS, LIGHT FIXTURES AND DUCTS OR OTHER UTILITIES SHALL NOT BE SUPPORTED BY THE METAL ROOF DECK.

12.5. DO NOT SHORE DECK DURING CONCRETE PLACEMENT.

## 13. HILTI STEEL DECK FASTENING SYSTEMS (X-HSN-24 AND X-ENP-19):

13.1. SEE STEEL DECK NOTES AND TYPICAL DETAILS FOR ROOF DECK ATTACHMENT PATTERNS.

13.2. ALL POWDER-ACTUATED FASTENERS SHALL BE INSTALLED ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS. THE CONTRACTOR AND SPECIAL INSPECTOR SHALL REFER TO APPLICABLE DOCUMENTATION FOR MORE INFORMATION.

13.3. FASTENING TOOL CALIBRATION SHALL BE COMPLETED PRIOR TO FASTENER INSTALLATION. CALIBRATION SHALL BE CHECKED PERIODICALLY DURING INSTALLATION AND ANY ADJUSTMENTS MADE AS REQUIRED TO ACHIEVE PROPER INSTALLATION.

13.4. PROPER CARTRIDGE SELECTION SHALL BE MADE DEPENDING ON THE BASE MATERIAL STRENGTH AND THICKNESS. REFER TO MANUFACTURER'S TECHNICAL GUIDES FOR SELECTION.

13.5. TIGHT DECK NESTING IS REQUIRED FOR PROPER INSTALLATION.

13.6. FASTENERS MUST CLAMP THE STEEL DECK DOWN TO THE BASE STEEL. THERE SHALL BE NO VISIBLE GAPS BETWEEN THE STEEL DECK AND THE BASE STEEL OR BETWEEN STEEL DECK LAYERS/LAPS.

13.7. WASHERS SHALL NOT BE DEFORMED, CURL UPWARD AWAY FROM THE DECK SURFACE, OR CUT INTO THE DECK SURFACE.

13.8. PROPER BASE STEEL EDGE DISTANCES SHALL BE MAINTAINED. REFER TO TYPICAL DETAILS AND MANUFACTURER'S RECOMMENDATIONS. THE MORE STRINGENT VALUES SHALL APPLY.

13.9. FASTENERS SHALL BE INSTALLED PERPENDICULAR TO THE BASE STEEL AND DECK. FASTENERS INSTALLED AT AN ANGLE ARE NOT ACCEPTABLE.

13.10. INSTALLATION OF THE X-HSN-24 FASTENER:

A. FOR USE WITH BASE STEEL THICKNESSES OF 1/8" TO 3/8" ONLY
B. THE TOP HAT AND WASHER SHALL BE PROPERLY COLLAPSED.
C. BOTTOM WASHERS SHALL BE SNUG AGAINST THE STEEL DECK.
D. THERE SHALL BE NO GAPS BETWEEN OR BELOW DECK LAYERS.
E. REFER TO ALL MANUFACTURER'S RECOMMENDATIONS.

13.11. INSTALLATION OF THE X-ENP-19 FASTENER:

A. FOR USE WITH BASE STEEL THICKNESSES GREATER THAN OR EQUAL TO 1/4"
B. THE PISTON MARK SHALL BE CLEARLY VISIBLE ON THE TOP WASHER
C. BOTH WASHERS SHALL BE SNUG TOGETHER AND AGAINST THE STEEL DECK
D. THERE SHALL BE NO GAPS BETWEEN OR BELOW DECK LAYERS.
E. REFER TO ALL MANUFACTURER'S RECOMMENDATIONS.

13.12. SPECIAL INSPECTOR SHALL BE FAMILIAR WITH ALL INSTALLATION REQUIREMENTS. CONTACT TUCKER-JONES ENGINEERS IF FURTHER CLARIFICATION IS REQUIRED OR FOR ASSISTANCE. CONTACT HILTI ENGINEER OR FIELD REPRESENTATIVE.

## 14. MASONRY NOTES:

14.1. MASONRY CONSTRUCTION SHALL CONFORM TO TMS 402-16 SPECIFICATION.

14.2. COMPRESSIVE STRENGTH OF MASONRY (f'm) SHALL BE 2000 PSI AT 28 DAYS. MASONRY UNIT STRENGTH OF 2000 PSI IS REQUIRED TO ACHIEVE REQUIRED f'm.

14.3. MASONRY GROUT FILL SHALL CONFORM TO ASTM C 476. GROUT EITHER FINE (SAND) OR COURSE (SAND + #7& STONE) AGGREGATE SHALL HAVE A 28 DAY COMPRESSIVE STRENGTH OF 3000 PSI. MASONRY CONCRETE FILL SHALL CONFORM TO THE REQUIREMENTS NOTED UNDER "CONCRETE" IN THE GENERAL NOTES.

14.4. GROUTING

A. ALL BOND BEAMS SHALL BE FILLED WITH GROUT AND REINFORCED AS INDICATED ON THE DRAWINGS (DETAILS OR SCHEDULES). MORTAR FILL IS NOT PERMITTED.
B. ALL MASONRY WALL CELLS OR CAVITIES INDICATED AS REINFORCED SHALL BE GROUTED FOR THE FULL HEIGHT OF THE WALL, UNLESS SPECIFICALLY NOTED OTHERWISE ON THE DRAWINGS. UN-REINFORCED WALLS INDICATED AS GROUTED SHALL BE GROUTED FULL HEIGHT, UNLESS SPECIFICALLY NOTED OTHERWISE. MORTAR FILL IS NOT PERMITTED.
C. ALL MASONRY CELLS OR CAVITIES BELOW GRADE SHALL BE GROUTED SOLID UNLESS SPECIFICALLY NOTED OTHERWISE ON THE DRAWINGS. MORTAR FILL IS NOT PERMITTED.
D. VERTICAL GROUTING SHALL BE LOW LIFT OR HIGH LIFT AS FOLLOWS:
1. LOW LIFT GROUTING SHALL BE USED FOR ALL CAVITY WALLS AND MAY BE USED FOR ALL WALLS AT THE OPTION OF THE CONTRACTOR. LIFTS SHALL NOT EXCEED 4'-0" IN HEIGHT.
2. HIGH LIFT GROUTING IS PERMISSIBLE ONLY FOR FILLING OF CELLULAR MASONRY UNITS AND SHALL NOT EXCEED ONE STORY IN HEIGHT. CLEAN OUT HOLES SHALL BE PROVIDED AT THE BASE OF EACH GROUTED CELL.

14.5. MORTAR SHALL CONFORM TO ASTM C 270. MORTAR SHALL BE TYPE "M" FOR BELOW GRADE APPLICATIONS AND TYPE "S" FOR ABOVE GRADE APPLICATIONS AND SHALL HAVE A 28-DAY COMPRESSIVE STRENGTH 1900 PSI.

14.6. ALL MASONRY SHALL BE RUNNING BOND, UNLESS NOTED.

14.7. ALL BLOCK CELLS AND CAVITIES BELOW GRADE SHALL BE FILLED WITH CONCRETE OR GROUT.

14.8. ALL INTERIOR PARTITION WALLS SHALL HAVE A 8" DEEP BOND BEAM WITH 1#5 CONTINUOUS TOP AND BOTTOM AT THE TOP OF THE WALL, UNLESS NOTED OTHERWISE IN DRAWINGS.

14.9. REINFORCING:

A. ALL BARS MARKED "CONTINUOUS" SHALL BE LAPPED PER "MASONRY WALL LAP SPLICE SCHEDULE" IN TYPICAL DETAILS.
B. FOUNDATION DOWELS MAY SLOPE

# 2021 IBC - SCHEDULE OF SPECIAL INSPECTIONS

| MATERIAL/ACTIVITY | EXTENT | INSTRUCTIONS/FREQUENCY |
|---|---|---|
| INSPECTION OF FABRICATORS (IBC 1704.2.5) | | |
| VERIFY FABRICATION/QUALITY CONTROL PROCEDURES | PERIODIC | REVIEW THE QUALITY CONTROL PROCEDURES OF THE FOLLOWING FABRICATORS FOR COMPLETENESS AND ADEQUACY RELATIVE TO THE FABRICATOR'S SCOPE OF WORK: STEEL FABRICATOR, WOOD TRUSS FABRICATOR, REBAR FABRICATOR, |
| SPECIAL CASES (IBC 1705.1.1 ) | | |
| WORK UNUSUAL IN NATURE, INCLUDING BUT NOT LIMITED TO ALTERNATIVE MATERIALS AND SYSTEMS, UNUSUAL DESIGN APPLICATIONS, AND/OR MATERIALS AND SYSTEMS WITH SPECIAL MANUFACTURER'S REQUIREMENTS | | PERFORM SUBMITTAL REVIEW, SHOP AND/OR FIELD INSPECTION PER DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE OR REPORT FROM AN ACCEPTED ENTITY. |
| STEEL CONSTRUCTION (IBC 1705.2) | | |
| FABRICATOR AND ERECTOR DOCUMENTS (VERIFY REPORTS AND CERTIFICATES AS LISTED IN AISC 360-16, CHAPTER N, SECTION 3 FOR COMPLIANCE WITH CONSTRUCTION DOCUMENTS) | EACH SUBMITTAL | TO BE COMPLETED IN SUBMITTAL REVIEW PROCESS. |
| MATERIAL VERIFICATION OF STRUCTURAL STEEL | PERIODIC | PERFORM SHOP AND FIELD INSPECTION. |
| VERIFY DIAMETER, GRADE, TYPE, LENGTH, AND EMBEDMENT OF ANCHOR RODS FOR CONFORMANCE WITH CONSTRUCTION DOCUMENTS. | CONTINUOUS | |
| VERIFY MEMBER LOCATIONS, BRACES, STIFFENERS, AND APPLICATION OF JOINT DETAILS AT EACH CONNECTION COMPLY WITH CONSTRUCTION DOCUMENTS. | CONTINUOUS | |
| STRUCTURAL STEEL (IBC 1705.2.1) | | |
| PRIOR TO WELDING (TABLE N5.4-1, AISC 360-16) | | |
| WELDER QUALIFICATION RECORDS AND CONTINUITY RECORDS | OBSERVE | |
| WELDING PROCEDURE SPECIFICATIONS (WPS) AVAILABLE | PERFORM | TO BE COMPLETED IN SUBMITTAL REVIEW PROCESS. |
| MANUFACTURER CERTIFICATIONS FOR WELDING CONSUMABLES AVAILABLE | PERFORM | |
| MATERIAL IDENTIFICATION | OBSERVE | PERFORM SHOP AND FIELD INSPECTION TO VERIFY TYPE AND GRADE OF MATERIAL. |
| WELDER IDENTIFICATION | OBSERVE | A SYSTEM SHALL BE MAINTAINED BY WHICH A WELDER WHO HAS WELDED A JOINT OR MEMBER CAN BE IDENTIFIED |
| FIT-UP GROOVE WELDS | OBSERVE | VERIFY JOINT PREPARATION, DIMENSIONS, CLEANLINESS, TACKING, AND BACKING |
| FIT-UP OF CJP GROOVE WELDS OF HSS T-, Y-, AND K-JOINTS WITHOUT BACKING | OBSERVE | VERIFY JOINT PREPARATION, DIMENSIONS, CLEANLINESS, AND TACKING |
| ACCESS HOLES | OBSERVE | VERIFY CONFIGURATION AND FINISH |
| FIT-UP OF FILLET WELDS | OBSERVE | VERIFY ALIGNMENT, GAPS AT ROOT, CLEANLINESS OF STEEL SURFACES, AND TACK WELD QUALITY AND LOCATION |
| DURING WELDING (TABLE N5.4-2, AISC 360-16): | | |
| CONTROL AND HANDLING OF WELDING CONSUMABLES | OBSERVE | VERIFY PACKAGING AND EXPOSURE CONTROL. |
| CRACKED TACK WELDS | OBSERVE | VERIFY THAT WELDING DOES NOT OCCUR OVER CRACKED TACK WELDS. |
| ENVIRONMENTAL CONDITIONS | OBSERVE | VERIFY WIND SPEED IS WITHIN LIMITS AS WELL AS PRECIPITATION AND TEMPERATURE. |
| WPS FOLLOWED | OBSERVE | VERIFY ITEMS SUCH AS SETTINGS ON WELDING EQUIPMENT, TRAVEL SPEED, WELDING MATERIALS, SHIELDING GAS TYPE/FLOW RATE, PREHEAT APPLIED, INTERPASS TEMPERATURE MAINTAINED, AND PROPER POSITION. |
| WELDING TECHNIQUES | OBSERVE | VERIFY INTERPASS AND FINAL CLEANING, EACH PASS IS WITHIN PROFILE LIMITATIONS, AND QUALITY OF EACH PASS. |
| PLACEMENT AND INSTALLATION OF STEEL HEADED STUD ANCHORS | PERFORM | |
| AFTER WELDING (TABLE N5.4-3, AISC 360-16): | | |
| WELDS CLEANED | OBSERVE | VERIFY THAT WELDS HAVE BEEN PROPERLY CLEANED. |
| SIZE, LENGTH, AND LOCATION OF WELDS | PERFORM | |
| WELDS MEET VISUAL ACCEPTANCE CRITERIA | PERFORM | VERIFY THAT WELDS MEET VISUAL ACCEPTANCE CRITERIA INCLUDING: CRACK PROHIBITION, WELD/BASE-METAL FUSION, CRATER CROSS SECTION, WELD PROFILES, WELD SIZE, UNDERCUT, AND POROSITY. |
| ARC STRIKES | PERFORM | |
| K-AREA | PERFORM | WHEN WELDING OF DOUBLER PLATES, CONTINUITY PLATES OR STIFFENERS HAS BEEN PERFORMED IN THE K-AREA, VISUALLY INSPECT THE WEB K-AREA FOR CRACKS WITHIN 3 INCHES OF THE WELD. |
| WELD ACCESS HOLES IN ROLLED HEAVY SHAPES AND BUILT-UP HEAVY SHAPES | PERFORM | AFTER ROLLED HEAVY SHAPES AND BUILT-UP HEAVY SHAPES ARE WELDED, VISUALLY INSPECT THE WELD ACCESS HOLE FOR CRACKS |
| BACKING & WELD TABS REMOVED (IF REQUIRED) | PERFORM | |
| REPAIR ACTIVITIES | PERFORM | |
| DOCUMENT ACCEPTANCE OR REJECTION OF WELDED JOINT/MEMBER | PERFORM | |
| NO PROHIBITED WELDS HAVE BEEN ADDED WITHOUT THE APPROVAL OF THE EOR | OBSERVE | |
| NONDESTRUCTIVE TESTING (SECTION N5.5, AISC 360-16): | | |
| CJP WELDS (RISK CAT. II) | PERFORM | ULTRASONIC TESTING SHALL BE PERFORMED ON 10% OF CJP GROOVE WELDS IN BUTT, T-AND CORNER JOINTS SUBJECT TO TRANSVERSELY APPLIED TENSION LOADING IN MATERIALS 5/16-INCH THICK OR GREATER. TESTING RATE MUST BE INCREASED IF > 5% OF WELDS TESTED HAVE UNACCEPTABLE DEFECTS. |
| COLD-FORMED STEEL DECK (IBC 1705.2.2) | | |
| PRIOR TO DECK PLACEMENT (SDI QA/QC - 2017, TABLE 1.1): | | |
| VERIFY COMPLIANCE OF MATERIALS (DECK AND ALL DECK ACCESSORIES) WITH CONSTRUCTION DOCUMENTS, INCLUDING PROFILES, MATERIAL PROPERTIES, AND BASE METAL THICKNESS | PERFORM | |
| DOCUMENT ACCEPTANCE OR REJECTION OF DECK AND DECK ACCESSORIES | PERFORM | |
| AFTER DECK PLACEMENT (SDI QA/QC - 2017, TABLE 1.2): | | |
| VERIFY COMPLIANCE OF MATERIALS AND ALL DECK ACCESSORIES INSTALLATION WITH CONSTRUCTION DOCUMENTS | PERFORM | |
| VERIFY DECK MATERIALS ARE REPRESENTED BY THE MILL CERTIFICATIONS THAT COMPLY WITH THE CONSTRUCTION DOCUMENTS | PERFORM | |
| DOCUMENT ACCEPTANCE OR REJECTION OF INSTALLATION OF DECK AND DECK ACCESSORIES | PERFORM | |
| PRIOR TO WELDING (SDI QA/QC - 2017, TABLE 1.3): | | |
| WELDING PROCEDURE SPECIFICATIONS (WPS) AVAILABLE | OBSERVE | |
| MANUFACTURER CERTIFICATIONS FOR WELDING CONSUMABLES AVAILABLE | OBSERVE | |
| MATERIAL IDENTIFICATION (TYPE/GRADE) | OBSERVE | |
| CHECK WELDING EQUIPMENT | OBSERVE | |
| DURING WELDING (SDI QA/QC - 2017, TABLE 1.4): | | |
| USE OF QUALIFIED WELDERS | OBSERVE | |
| CONTROL AND HANDLING OF WELDING CONSUMABLES | OBSERVE | |
| ENVIRONMENTAL CONDITIONS (WIND SPEED, MOISTURE, TEMPERATURE) | OBSERVE | |
| WPS FOLLOWED | OBSERVE | |
| AFTER WELDING (SDI QA/QC - 2017, TABLE 1.5): | | |
| VERIFY SIZE AND LOCATION OF WELDS, INCLUDING SUPPORT, SIDELAP, AND PERIMETER WELDS | PERFORM | |
| WELDS MEET VISUAL ACCEPTANCE CRITERIA | PERFORM | |
| VERIFY REPAIR ACTIVITIES | PERFORM | |
| DOCUMENT ACCEPTANCE OR REJECTION OF WELDS | PERFORM | |
| PRIOR TO MECHANICAL FASTENING (SDI QA/QC - 2017, TABLE 1.6): | | |
| MANUFACTURER INSTALLATION INSTRUCTIONS AVAILABLE FOR MECHANICAL FASTENERS | OBSERVE | |
| PROPER TOOLS AVAILABLE FOR FASTENER INSTALLATION | OBSERVE | |
| PROPER STORAGE FOR MECHANICAL FASTENERS | OBSERVE | |
| DURING MECHANICAL FASTENING (SDI QA/QC - 2017, TABLE 1.7): | | |
| FASTENERS ARE POSITIONED AS REQUIRED | OBSERVE | |
| FASTENERS ARE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS | OBSERVE | |
| AFTER MECHANICAL FASTENING (SDI QA/QC - 2017, TABLE 1.8): | | |
| CHECK SPACING, TYPE, AND INSTALLATION OF SUPPORT FASTENERS | PERFORM | |
| CHECK SPACING, TYPE, AND INSTALLATION OF SIDELAP FASTENERS | PERFORM | |
| CHECK SPACING, TYPE, AND INSTALLATION OF PERIMETER FASTENERS | PERFORM | |
| VERIFY REPAIR ACTIVITIES | PERFORM | |
| DOCUMENT ACCEPTANCE OR REJECTION OF MECHANICAL FASTENERS | PERFORM | |
| OPEN-WEB STEEL JOISTS AND JOIST GIRDERS (IBC 1705.2.3): | | |
| INSTALLATION OF OPEN-WEB STEEL JOISTS AND JOIST GIRDERS (IBC TABLE 1705.2.3) | | |
| END CONNECTIONS - WELDED OR BOLTED | PERIODIC | SJI SPECIFICATIONS LISTED IN IBC SECTION 2207.1 |
| BRIDGING - HORIZONTAL OR DIAGONAL | PERIODIC | SJI SPECIFICATIONS LISTED IN IBC SECTION 2207.1 FOR STANDARD BRIDGING. SPECIAL INSPECTION ALSO REQUIRED FOR BRIDGING THAT DIFFERS FROM THESE SJI SPECIFICATIONS. |
| CONCRETE CONSTRUCTION (IBC 1705.3 AND IBC TABLE 1705.3): | | |
| INSPECT REINFORCEMENT, INCLUDING PRESTRESSING TENDONS, AND VERIFY PLACEMENT | PERIODIC | REFERENCE ACI 318 CH. 20, 25.2, 25.3, 26.6.1-26.6.3 AND IBC 1908.4 |
| INSPECT ANCHORS CAST IN CONCRETE | PERIODIC | REFERENCE ACI 318: 17.8.2 |
| INSPECT ANCHORS POST-INSTALLED IN HARDENED CONCRETE MEMBERS: | CONTINUOUS | SPECIFIC REQUIREMENTS FOR SPECIAL INSPECTION SHALL BE INCLUDED IN THE RESEARCH REPORT FOR THE ANCHOR ISSUED BY AN APPROVED SOURCE IN ACCORDANCE WITH ACI 318: 17.8.2 OR OTHER QUALIFICATION PROCEDURES. WHERE NOT PROVIDED, CONSULT WITH REGISTERED DESIGN PROFESSIONAL FOR REQUIREMENTS TO BE APPROVED BY BUILDING OFFICIAL PRIOR TO PROCEEDING. |
| ADHESIVE ANCHORS INSTALLED IN HORIZONTALLY OR UPWARDLY INCLINED ORIENTATIONS TO RESIST SUSTAINED TENSION LOADS | CONTINUOUS | REFERENCE ACI 318: 17.8.2.4 |
| MECHANICAL ANCHORS AND ADHESIVE ANCHORS NOT DEFINED ABOVE | PERIODIC | REFERENCE ACI 318: 17.8.2 |
| VERIFY USE OF REQUIRED DESIGN MIX. | PERFORM | REFERENCE ACI 318: CH. 19, 26.4.3, 26.4.4 AND IBC 1904.1-2 |
| PRIOR TO CONCRETE PLACEMENT, FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF THE CONCRETE. | CONTINUOUS | REFERENCE ASTM C172 & C31; ACI 318: 26.4, 26.12 |
| INSPECT CONCRETE AND SHOTCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES. | CONTINUOUS | REFERENCE ACI 318: 26 |
| VERIFY MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES. | PERIODIC | REFERENCE ACI 318: 26.5.3-5 |
| INSPECT PRESTRESSED CONCRETE FOR: | | |
| APPLICATION OF PRESTRESSING FORCES | CONTINUOUS | REFERENCE ACI 318: 26.10 |
| GROUTING OF BONDED PRESTRESSING TENDONS | CONTINUOUS | REFERENCE ACI 318: 26.10 |
| INSPECT ERECTION OF PRECAST CONCRETE MEMBERS | PERIODIC | REFERENCE ACI 318: 26.8 |
| FOR PRECAST CONCRETE DIAPHRAGM CONNECTIONS OR REINFORCEMENT AT JOINTS CLASSIFIED AS MODERATE OR HIGH DEFORMABILITY ELEMENTS (MDE OR HDE) IN STRUCTURES ASSIGNED TO SEISMIC DESIGN CATEGORY C, D, E OR F, INSPECT SUCH CONNECTIONS AND REINFORCEMENT IN THE FIELD FOR: | | REFERENCE ACI 318: 26.13.1.3 AND ACI 550.5 |
| INSTALLATION OF THE EMBEDDED PARTS | CONTINUOUS | |
| COMPLETION OF THE CONTINUITY OF REINFORCEMENT ACROSS JOINTS | CONTINUOUS | |
| COMPLETION OF CONNECTIONS IN THE FIELD | CONTINUOUS | |
| INSPECT INSTALLATION TOLERANCES OF PRECAST CONCRETE DIAPHRAGM CONNECTIONS FOR COMPLIANCE WITH ACI 550.5 | PERIODIC | REFERENCE ACI 318: 26.13.1.3 |
| VERIFY IN-SITU CONCRETE STRENGTH, PRIOR TO STRESSING OF TENDONS IN POST-TENSIONED CONCRETE AND PRIOR TO REMOVAL OF SHORES AND FORMS FROM BEAMS AND STRUCTURAL SLABS. | PERIODIC | REFERENCE ACI 318: 26.11.2 |
| INSPECT FORMWORK FOR SHAPE, LOCATION AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED. | PERIODIC | REFERENCE ACI 318: 26.11.1.2(B) |

# 2021 IBC - SCHEDULE OF SPECIAL INSPECTIONS

| MATERIAL/ACTIVITY | EXTENT | INSTRUCTIONS/FREQUENCY |
|---|---|---|
| MASONRY CONSTRUCTION (IBC 1705.4) | | |
| LEVEL 2 QUALITY ASSURANCE (TMS 402-16 TABLE 3.1 & TMS 602-16 TABLES 3&4) | | APPLICABLE TO RISK CATEGORIES I, II, III |
| VERIFY COMPLIANCE WITH THE APPROVED SUBMITTALS PRIOR TO CONSTRUCTION | | MINIMUM VERIFICATION - REFERENCE TMS 602, ART. 1.5 |
| VERIFY F'M AND F'AAC PRIOR TO CONSTRUCTION, EXCEPT WHERE SPECIFICALLY EXEMPTED BY THIS CODE | | MINIMUM VERIFICATION - REFERENCE TMS 602, ART. 1.4 B |
| VERIFY SLUMP FLOW AND VISUAL STABILITY INDEX (VSI) WHEN SELF-CONSOLIDATING GROUT IS DELIVERED TO THE PROJECT SITE | | MINIMUM VERIFICATION - REFERENCE TMS 602, ART. 1.5 & 1.6.3 |
| AS MASONRY CONSTRUCTION BEGINS, VERIFY THE FOLLOWING ARE IN COMPLIANCE: | | |
| PROPORTIONS OF SITE-PREPARED MORTAR | PERIODIC | REFERENCE TMS 602, ART. 2.1, 2.6 A & 2.6 C |
| GRADE AND SIZE OF PRESTRESSING TENDONS AND ANCHORAGES | PERIODIC | REFERENCE TMS 602, ART. 2.4 B & 2.4 H |
| GRADE, TYPE AND SIZE OF REINFORCEMENT, CONNECTORS, ANCHOR BOLTS, AND PRESTRESSING TENDONS AND ANCHORAGES | PERIODIC | REFERENCE TMS 602, ART. 3.4 & 3.6 A |
| PRESTRESSING TECHNIQUE | PERIODIC | REFERENCE TMS 602, ART. 3.6 B |
| PROPERTIES OF THIN-BED MORTAR FOR AAC MASONRY | CONTINUOUS/PERIODIC | CONTINUOUS IS REQUIRED FOR THE FIRST 5000 SF OF AAC MASONRY; PERIODIC IS REQUIRED AFTER THE FIRST 5000 SF OF AAC MASONRY. REFERENCE TMS 602, ART. 2.1 C |
| SAMPLE PANEL CONSTRUCTION | PERIODIC | REFERENCE TMS 602, ART. 1.6 D |
| PRIOR TO GROUTING, VERIFY THE FOLLOWING ARE IN COMPLIANCE: | | |
| GROUT SPACE | PERIODIC | REFERENCE TMS 602, ART. 3.2 D & 3.2 F |
| PLACEMENT OF PRESTRESSING TENDONS AND ANCHORAGES | PERIODIC | REFERENCE TMS 402, SEC. 10.8 & 10.9 AND TMS 602, ART. 2.4 & 3.6 |
| PLACEMENT OF REINFORCEMENT, CONNECTORS, AND ANCHOR BOLTS | PERIODIC | REFERENCE TMS 402, SEC. 6.1, 6.3.1, 6.3.6 & 6.3.7 AND TMS 602, ART. 3.2 E & 3.4 |
| PROPORTIONS OF SITE-PREPARED GROUT AND PRESTRESSING GROUT FOR BONDED TENDONS | PERIODIC | REFERENCE TMS 602, ART. 2.6 B & 2.4 G.1.B |
| VERIFY COMPLIANCE OF THE FOLLOWING DURING CONSTRUCTION: | | |
| MATERIALS AND PROCEDURES WITH THE APPROVED SUBMITTALS | PERIODIC | REFERENCE TMS 602, ART. 1.5 |
| PLACEMENT OF MASONRY UNITS AND MORTAR JOINT CONSTRUCTION. | PERIODIC | REFERENCE TMS 602, ART. 3.3 B |
| SIZE AND LOCATION OF STRUCTURAL ELEMENTS | PERIODIC | REFERENCE TMS 602, ART. 3.3 F |
| TYPE, SIZE, AND LOCATION OF ANCHORS, INCLUDING OTHER DETAILS OF ANCHORAGE OF MASONRY TO STRUCTURAL MEMBERS, FRAMES, OR OTHER CONSTRUCTION | PERIODIC | REFERENCE TMS 402, SEC. 1.2.1 (E), 6.2.1, & 6.3.1 |
| WELDING OF REINFORCEMENT | CONTINUOUS | REFERENCE TMS 402, SEC. 6.1.6.1.2 |
| PREPARATION, CONSTRUCTION, AND PROTECTION OF MASONRY DURING COLD WEATHER (<40°F) OR HOT WEATHER (>90°F) | PERIODIC | REFERENCE TMS 602, ART. 1.8 C & 1.8 D |
| APPLICATION AND MEASUREMENT OF PRESTRESSING FORCE | CONTINUOUS | REFERENCE TMS 602, ART. 3.6 B |
| PLACEMENT OF GROUT AND PRESTRESSING GROUT FOR BONDED TENDONS IS IN COMPLIANCE | CONTINUOUS | REFERENCE TMS 602, ART. 3.5 & 3.6 C |
| PLACEMENT OF AAC MASONRY UNITS AND CONSTRUCTION OF THIN-BED MORTAR JOINTS | CONTINUOUS/PERIODIC | CONTINUOUS IS REQUIRED FOR THE FIRST 5000 SF OF AAC MASONRY; PERIODIC IS REQUIRED AFTER THE FIRST 5000 SF OF AAC MASONRY. REFERENCE TMS 602, ART. 3.3 B.9 & 3.3.F.1.B |
| OBSERVE PREPARATION OF GROUT SPECIMENS, MORTAR SPECIMENS, AND/OR PRISMS | PERIODIC | REFERENCE TMS 602, ART. 1.4 B.2.A.3, 1.4 B.2.B.3, 1.4 B.2.C.3, 1.4 B.3, 1.4 B.4 |
| SOILS (IBC 1705.6) | | |
| VERIFY MATERIALS BELOW SHALLOW FOUNDATIONS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY. | PERIODIC | |
| VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL. | PERIODIC | |
| PERFORM CLASSIFICATION AND TESTING OF COMPACTED FILL MATERIALS. | PERIODIC | |
| VERIFY USE OF PROPER MATERIALS, DENSITIES AND LIFT THICKNESSES DURING PLACEMENT AND COMPACTION OF COMPACTED FILL. | CONTINUOUS | |
| PRIOR TO PLACEMENT OF COMPACTED FILL, INSPECT SUBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY. | PERIODIC | |
| SPRAYED FIRE-RESISTANT MATERIALS (IBC 1705.15) | | |
| PHYSICAL AND VISUAL TESTS | CONTINUOUS | INCLUDES CONDITION OF SUBSTRATES, THICKNESS OF APPLICATION, DENSITY IN POUNDS PER CUBIC FOOT, BOND STRENGTH ADHESION/COHESION, AND CONDITION OF FINISHED APPLICATION. |
| STRUCTURAL MEMBER SURFACE CONDITIONS IN CONFORMANCE WITH APPROVED FIRE-RESISTANCE DESIGN AND MANUFACTURER'S INSTRUCTIONS | CONTINUOUS | THE PREPARED SURFACE OF STRUCTURAL MEMBERS TO BE SPRAYED SHALL BE INSPECTED PRIOR TO FIRE-RESISTANT MATERIAL APPLICATION. |
| APPLICATION PER MANUFACTURER'S INSTRUCTIONS | CONTINUOUS | VERIFY SUBSTRATE MINIMUM AMBIENT TEMPERATURE BEFORE AND AFTER APPLICATION AND REQUIRED VENTILATION DURING AND AFTER APPLICATION. |
| THICKNESS IN CONFORMANCE WITH APPLICABLE SUBSECTIONS OF IBC 1705.15.4 | CONTINUOUS | NOT MORE THAN 10% OF THE THICKNESS MEASUREMENTS APPLIED TO FLOOR, ROOF AND WALL ASSEMBLIES AND STRUCTURAL MEMBERS SHALL BE LESS THAN THE THICKNESS REQUIRED BY THE APPROVED DESIGN, AND NONE SHALL BE LESS THAN THE MINIMUM THICKNESS PER IBC 1705.14.4.1. |
| DENSITY MEETS REQUIREMENTS AS DETERMINED IN ACCORDANCE WITH ASTM E605 | PERIODIC | DENSITY TESTS: (1) FROM EACH FLOOR, ROOF AND WALL ASSEMBLY AT THE RATE OF NOT LESS THAN ONE SAMPLE FOR EVERY 2500 SF OR PORTION THEREOF OF THE SPRAYED AREA IN EACH STORY (2) FROM BEAMS, GIRDERS, TRUSSES, AND COLUMNS AT THE RATE OF NOT LESS THAN ONE SAMPLE FOR EACH TYPE OF STRUCTURAL MEMBER FOR EACH 2500 SF OF FLOOR AREA OR PORTION THEREOF IN EACH STORY. |
| BOND STRENGTH MEETS REQUIREMENTS AS DETERMINED IN ACCORDANCE WITH ASTM E736 (SHALL NOT BE LESS THAN 150 PSF) | PERIODIC | BOND STRENGTH TESTS: (1) ONE SAMPLE FOR EVERY 2500 SF IN EACH STORY FOR FLOOR, ROOF AND WALL ASSEMBLIES (2) ONE SAMPLE FOR EVERY 2500 SF IN EACH STORY FOR EACH TYPE OF STRUCTURAL MEMBER (3) BOND TESTS TO QUALIFY A PRIMER, PAINT OR ENCAPSULANT SHALL BE CONDUCTED IF APPLICABLE. A BONDING AGENT APPROVED BY THE SFRM MANUFACTURER SHALL BE APPLIED WHERE BOND STRENGTHS DO NOT MEET REQUIRED VALUES. |
| MASTIC AND INTUMESCENT FIRE-RESISTANT COATINGS (IBC 1705.16) | | |
| VERIFICATION AND INSPECTION OF FIRE-RESISTANCE DESIGN DESIGNATED IN CONSTRUCTION DOCUMENTS | PERIODIC | SHALL BE PERFORMED IN ACCORDANCE WITH AWCI 12-B; VERIFY SURFACE PREPARATION AND THICKNESS |
| EXTERIOR INSULATION AND FINISH SYSTEMS (EIFS) (IBC 1705.17) | | |
| EIFS APPLICATIONS | CONTINUOUS | EXCEPTION: NOT REQUIRED WHERE INSTALLED OVER A WATER-RESISTIVE BARRIER WITH A MEANS OF DRAINING MOISTURE TO THE EXTERIOR OR WHERE INSTALLED OVER MASONRY OR CONCRETE WALLS. |
| WATER-RESISTIVE BARRIER COATING | CONTINUOUS | INSPECTION OF THE WATER-RESISTIVE BARRIER COATING COMPLYING WITH ASTM E2570 IS REQUIRED WHERE INSTALLED OVER A SHEATHING SUBSTRATE. |
| FIRE-RESISTANT PENETRATIONS AND JOINTS (IBC 1705.18) | | |
| INSPECTION OF PENETRATION FIRESTOPS SHALL BE CONDUCTED BY AN APPROVED AGENCY IN ACCORDANCE WITH ASTM E2174. | CONTINUOUS | INSPECTION REQUIRED IN HIGH-RISE BUILDINGS OR IN BUILDINGS ASSIGNED TO RISK CATEGORY III OR IV FOR THROUGH-PENETRATIONS, MEMBRANE PENETRATION FIRESTOPS, FIRE-RESISTANT JOINT SYSTEMS AND PERIMETER FIRE BARRIER SYSTEMS THAT ARE TESTED AND LISTED IN ACCORDANCE WITH SECTIONS 714.4.1.2, 714.5.1.2, 715.3 AND 715.4. |
| INSPECTION OF FIRE-RESISTANT JOINT SYSTEMS SHALL BE CONDUCTED BY AN APPROVED AGENCY IN ACCORDANCE WITH ASTM E2393. | CONTINUOUS | INSPECTION REQUIRED IN HIGH-RISE BUILDINGS OR IN BUILDINGS ASSIGNED TO RISK CATEGORY III OR IV FOR THROUGH-PENETRATIONS, MEMBRANE PENETRATION FIRESTOPS, FIRE-RESISTANT JOINT SYSTEMS AND PERIMETER FIRE BARRIER SYSTEMS THAT ARE TESTED AND LISTED IN ACCORDANCE WITH SECTIONS 714.4.1.2, 714.5.1.2, 715.3 AND 715.4. |
| TESTING FOR SMOKE CONTROL (IBC 1705.19) | | |
| LEAKAGE TESTING AND RECORDING OF DEVICE LOCATION DURING ERECTION OF DUCTWORK | CONTINUOUS | SHALL BE PERFORMED PRIOR TO CONCEALMENT |
| PRESSURE DIFFERENCE TESTING, FLOW MEASUREMENTS AND DETECTION AND CONTROL VERIFICATION | PERIODIC | SHALL BE PERFORMED PRIOR TO OCCUPANCY AND AFTER SUFFICIENT COMPLETION |
| APPROVED AGENCY QUALIFICATIONS | AS NOTED | APPROVED AGENCIES MUST HAVE EXPERTISE IN FIRE PROTECTION ENGINEERING, MECHANICAL ENGINEERING AND CERTIFICATION AS AIR BALANCERS. |
| STRUCTURAL OBSERVATIONS (IBC 1704.6) | | |
| ITEM TO BE OBSERVED: | | NAME OF STRUCTURAL OBSERVER |
| FOOTINGS & PIERS | | |
| MASONRY WALLS | | |
| STEEL MOMENT FRAMES | | |
| STEEL DECK DIAPHRAGMS | | |

| *INSPECTION AGENTS FIRM | ADDRESS | TELEPHONE NO. |
|---|---|---|
| 1. OWNER'S TESTING AGENCY | | |
| 2. | | |
| 3. | | |
| 4. | | |

NOTE: THE INSPECTION AND TESTING AGENT(S) SHALL BE ENGAGED BY THE OWNER OR THE OWNER'S AGENT, AND NOT BY THE CONTRACTOR OR SUBCONTRACTOR WHOSE WORK IS TO BE INSPECTED OR TESTED. ANY CONFLICT OF INTEREST MUST BE DISCLOSED TO THE BUILDING OFFICIAL PRIOR TO COMMENCING WORK. THE QUALIFICATIONS OF THE INSPECTION AGENT(S) MAY BE SUBJECT TO THE APPROVAL OF THE BUILDING OFFICIAL.

DATE:

NOTES:

1. STRUCTURAL STEEL WELDING:
   A. COMPLETE AND PARTIAL PENETRATION GROOVE WELDS - CONTINUOUS.
   B. MULTIPLE - PASS FILLET WELDS - CONTINUOUS.
   C. PLUG AND SLOT WELDS - CONTINUOUS.
   D. SINGLE - PASS FILLET WELDS < 5/16" - PERIODIC.
   E. DECK WELDS - PERIODIC.

2. REINFORCING STEEL WELDING:
   A. VERIFICATION OF WELDABILITY - PERIODIC.
   B. REINFORCING STEEL RESISTING FLEXURAL AND AXIAL IN INTERMEDIATE AND SPECIAL MOMENT FRAMES AND BOUNDARY ELEMENTS IN SPECIAL WALLS OR SHEAR REINF - CONTINUOUS.
   C. SHEAR REINFORCEMENT - CONTINUOUS.
   D. OTHER REINFORCING - PERIODIC.

3. EXCEPTIONS: SPECIAL INSPECTIONS SHALL NOT BE REQUIRED FOR:
   A. ISOLATED SPREAD CONCRETE FOOTINGS OF BUILDINGS THREE STORIES OR LESS ABOVE GRADE PLANE THAT ARE FULLY SUPPORTED ON EARTH OR ROCK.
   B. CONTINUOUS CONCRETE FOOTINGS SUPPORTING WALLS OF BUILDINGS THREE STORIES OR LESS ABOVE GRADE PLANE THAT ARE FULLY SUPPORTED ON EARTH OR ROCK WHERE:
      1. FOOTINGS SUPPORT WALLS OF LIGHT-FRAME CONSTRUCTION.
      2. FOOTINGS ARE DESIGNED IN ACCORDANCE WITH TABLE 1809.7.
      3. THE STRUCTURAL DESIGN OF THE FOOTING IS BASED ON A SPECIFIED COMPRESSIVE STRENGTH, F'c, NO GREATER THAN 2500 POUNDS PER SQUARE INCH (PSI), REGARDLESS OF THE COMPRESSIVE STRENGTH SPECIFIED IN THE CONSTRUCTION DOCUMENTS OR USED IN THE FOOTING CONSTRUCTION.
   C. NONSTRUCTURAL CONCRETE SLABS SUPPORTED DIRECTLY ON THE GROUND, INCLUDING PRESTRESSED SLABS ON GRADE, WHERE THE EFFECTIVE PRESTRESS IN THE CONCRETE IS LESS THAN 150 PSI.
   D. CONCRETE FOUNDATION WALLS CONSTRUCTED IN ACCORDANCE WITH TABLE 1807.1.6.2.
   E. CONCRETE PATIOS, DRIVEWAYS AND SIDEWALKS ON GRADE.

DEFINITIONS:
PERIODIC - PART-TIME OR INTERMITTENT OBSERVATION OF WORK THAT HAS BEEN/IS BEING PERFORMED AND AT THE COMPLETION OF THE WORK.
CONTINUOUS - FULL-TIME OBSERVATION OF WORK, INSPECTOR IS PRESENT IN THE AREA WHERE THE WORK IS BEING PERFORMED.
OBSERVE - INSPECT THESE ITEMS ON A RANDOM/INTERMITTENT BASIS. OPERATIONS NEED NOT BE DELAYED PENDING THESE INSPECTIONS.
PERFORM - PERFORM THESE TASKS FOR EACH WELDED JOINT OR MEMBER, BOLTED CONNECTION, OR STEEL ELEMENT PRIOR TO FINAL ACCEPTANCE.


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PROJECT #25112


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ISSUE DATE
BID SET 05/27/2026

DRAWN BY: KA
CHECKED BY: CSS

**REID STATE CC WELDING & INDUSTRIAL RENOVATIONS**
ALABAMA COMMUNITY COLLEGE SYSTEM
REID STATE COMMUNITY COLLEGE
100 AL-83 EVERGREEN, AL 36401

ACCS 2026162RSTCC
GMC ABHM250047

ALABAMA REGISTERED No. 31254 PROFESSIONAL ENGINEER CHRISTOPHER S. SHEPHERD
05/27/2026

**2021 SCHEDULE OF SPECIAL INSPECTIONS**

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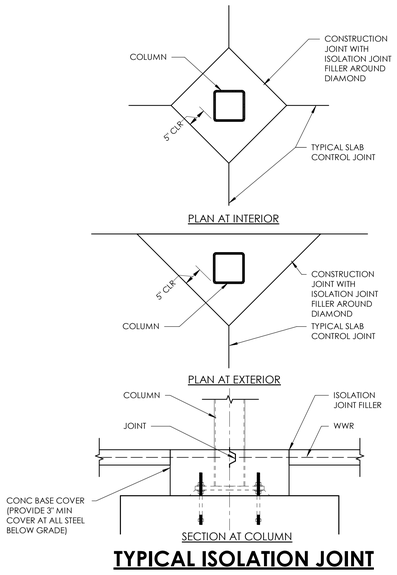
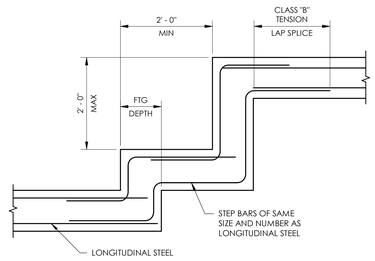
PROJECT #25112




## TYPICAL ISOLATION JOINT

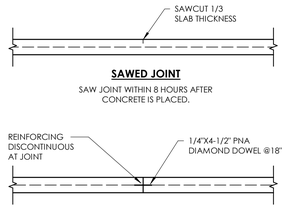



## TYPICAL FOOTING STEP

## BEAM/FOOTING TENSION LAP SPLICE LENGTH

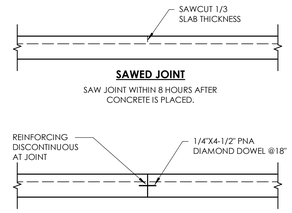
| BAR SIZE | f'c = 4000 PSI | |
|---|---|---|
| | TOP BARS | OTHER BARS |
| #3 | 24" | 19" |
| #4 | 32" | 25" |
| #5 | 40" | 31" |
| #6 | 48" | 37" |
| #7 | 70" | 54" |
| #8 | 80" | 62" |
| #9 | 91" | 70" |

TOP BARS ARE HORIZONTAL REINFORCEMENT WITH MORE THAN 12" OF CONCRETE CAST BELOW THE REINF.



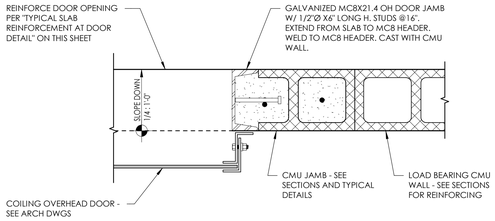

## TYPICAL 4" SLAB CONTROL JOINT

JOINT TYPE IS OPTIONAL



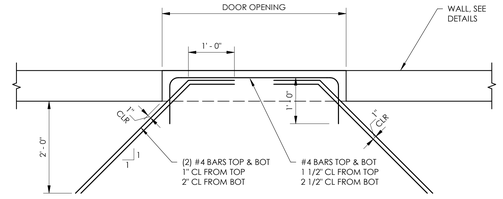

## TYPICAL 6" SLAB CONTROL JOINT

JOINT TYPE IS OPTIONAL

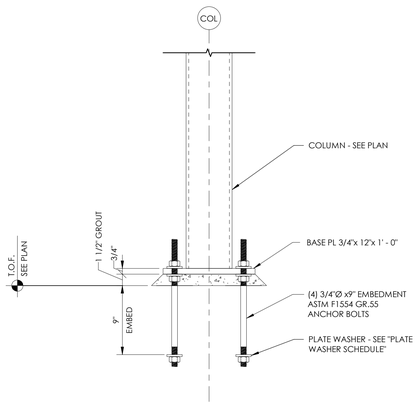



NOTE: GALVANIZED MC CHANNEL FRAME AT OVERHEAD DOORS SHALL BE PROTECTED DURING MASONRY INSTALLATION. DAMAGED/SCRATCHED/ETC. GALVANIZATION SHALL BE PAINTED WITH ZINC RICH PAINT. FOLLOW ALL PREPARATION REQUIREMENTS FOR ZINC RICH PAINT APPLICATION.

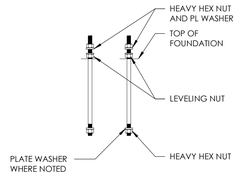
## TYPICAL DRIVE-IN OVERHEAD DOOR THRESHOLD DETAIL



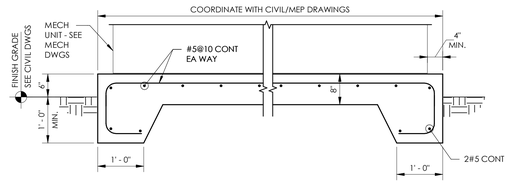

## TYPICAL SLAB REINFORCEMENT AT DOOR DETAIL




| PLATE WASHER AND BASEPLATE HOLE Ø SCHEDULE | | |
|---|---|---|
| BOLT Ø | HOLE Ø | PLATE WASHER |
| 3/4" | 1-5/16" | 1/4"x2"x2" |
| 1" | 1- 7/8" | 3/8"x3"x3" |
| 1 1/4" | 2-1/8" | 1/2"x3-1/2"x3-1/2" |
| 1 1/2" | 2-3/8" | 1/2"x4"x4" |
| 2" | 3-1/4" | 3/4"x5"x5" |

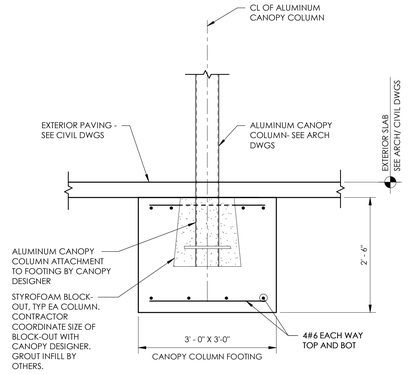



## PLATE WASHER SCHEDULE

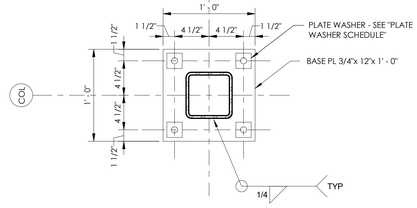



## TYPICAL MECHANICAL EQUIPMENT PAD DETAIL

NOTES:
1. FOR EQUIPMENT LOCATIONS, SEE CIVIL AND MEP DWGS



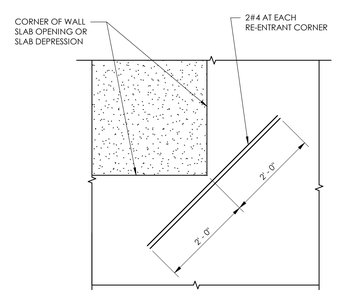

## TYPICAL ALUMINUM CANOPY COLUMN FOOTING DETAIL



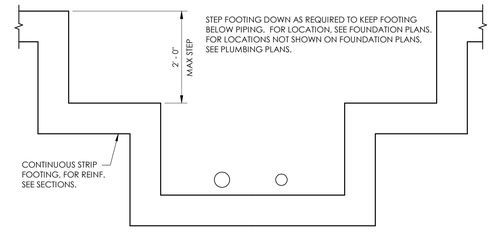

## BP - 1

## TYPICAL BASE PLATE AND ANCHOR BOLT DETAILS

NOTES:
1. EDGE DISTANCES INDICATED ARE FOR ROLLED OR THERMALLY CUT BASE PLATES. VALUES SHALL BE ADJUSTED FOR SHEARED EDGES.
2. PROVIDE MAXIMUM ANCHOR BOLT HOLE DIAMETER AND MINIMUM RECOMMENDED PLATE WASHERS INDICATED IN "ANCHOR BOLT DETAILS" ON THIS SHEET.
3. STEEL TEMPLATES SHALL BE USED FOR SETTING ALL CAST-IN-PLACE ANCHOR BOLTS. **DO NOT WET-SET ANCHOR BOLTS IN CONCRETE.**




## TYPICAL RE-ENTRANT SLAB CORNER REINFORCING DETAIL




## TYPICAL FOUNDATION WALL AT PIPING

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| ISSUE | DATE |
|---|---|
| BID SET | 05/27/2026 |

DRAWN BY: KA
CHECKED BY: CSS

**REID STATE CC WELDING & INDUSTRIAL RENOVATIONS**
ALABAMA COMMUNITY COLLEGE SYSTEM
REID STATE COMMUNITY COLLEGE
100 AL-83 EVERGREEN, AL 36401

ACCS 2026162RSTCC
GMC ABHM250047

ALABAMA REGISTERED PROFESSIONAL ENGINEER No. 31254 CHRISTOPHER S. SMITH
05/27/2026

TYPICAL DETAILS

S1.03

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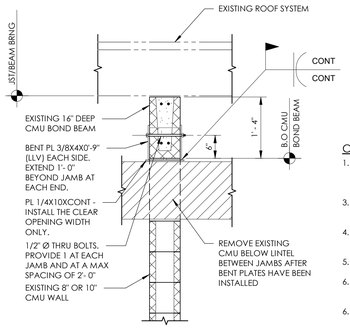
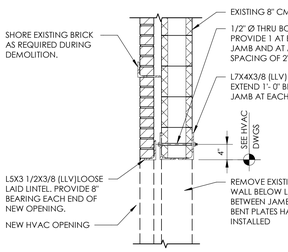



CONSTRUCTION SEQUENCE

1. GROUT SOLID 1 CELL ON EACH SIDE OF NEW OPENING UP TO THE BOTTOM OF ANGLE BEARING PRIOR TO CUTTING.
3. SAWCUT SLOT FOR ANGLE IN ONE SIDE OF WALL & INSERT ANGLE.
4. SAWCUT SLOT AND INSERT ANGLE ON OTHER SIDE OF WALL.
5. INSTALL THRU BOLTS.
6. CUT OUT OPENING FOR DUCT BELOW ANGLES.
6. INSTALL AND WELD PLATE AT CLEAR OPENING WIDTH.

## NEW LINTEL IN EXISTING INTERIOR MASONRY WALL DETAIL FOR DUCT/PIPING

NOTE:
1. PROVIDE 8" BEARING FOR NEW LINTEL AT EACH SIDE OF NEW OPENING.
2. MAXIMUM CLEAR OPENING WIDTH NOT TO EXCEED 4'-2".
3. DO NOT INSTALL EQUIPMENT, PIPING, ETC. THROUGH THE JAMB ON EITHER SIDE OF NEW WALL OPENING FROM 1'-0" ABOVE NEW LINTEL TO FOUNDATION.
4. PROVIDE 4'-0" CLEAR (MINIMUM) BETWEEN ANY TWO ADJACENT DUCT OPENINGS.
5. DO NOT PROVIDE OPENING IN LOAD BEARING CMU WALL UNLESS NOTED ON PLAN.




CONSTRUCTION SEQUENCE

1. SHORE EXISTING BRICK ABOVE NEW OPENING LOCATION, AND REMOVE BRICK VENEER BELOW.
2. GROUT SOLID 1 CELL ON EACH SIDE OF NEW OPENING UP TO THE BOTTOM OF ANGLE BEARING PRIOR TO CUTTING.
3. SAWCUT SLOT FOR ANGLE IN ONE SIDE OF WALL & INSERT ANGLE.
4. SAWCUT SLOT AND INSERT ANGLE ON OTHER SIDE OF WALL.
5. INSTALL THRU BOLTS.
6. CUT OUT OPENING BELOW ANGLES.
7. INSTALL LOOSE LAID LINTEL FOR RE-INSTALL OF EXISTING BRICK VENEER.
8. RE-INSTALL EXISTING BRICK VENEER FROM SHORING DOWN TO NEW LINTEL.
9. REMOVE SHORING AND RE-POINT VENEER MORTAR

## NEW LINTEL IN EXISTING EXTERIOR MASONRY WALL DETAIL FOR DUCT AND PIPING

NOTE:
1. PROVIDE 8" BEARING FOR NEW LINTEL AT EACH SIDE OF NEW OPENING.
2. MAXIMUM CLEAR OPENING WIDTH NOT TO EXCEED 4'-8".
3. DO NOT INSTALL EQUIPMENT, PIPING, ETC. THROUGH THE JAMB ON EITHER SIDE OF NEW WALL OPENING FROM 1'-0" ABOVE NEW LINTEL TO FOUNDATION.

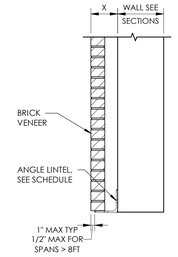
## MASONRY WALL LAP SPLICE SCHEDULE

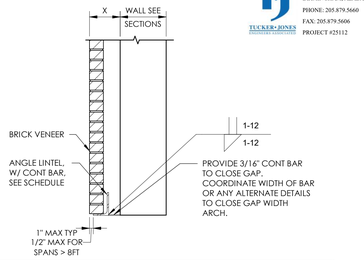
| BAR Ø | 8" WIDE WALLS | |
|---|---|---|
| | f'm = 2000psi | f'm = 2500psi |
| #4 | 15" | 12" |
| #5 | 24" | 18" |
| #6 | 44" | 34" |
| #7 | 61" | 47" |
| #8 | 91" | 71" |

## MASONRY LINTEL SCHEDULE

| MAXIMUM OPENING WIDTH | LINTEL DIMENSIONS & REINFORCING | | |
|---|---|---|---|
| | DEPTH | 8" WALL | 12" WALL |
| 2'-0" | 8 | | 1#4 BOT |
| 4'-0" | 8 | 1#4 BOT | 2#4 BOT |
| 6'-0" | 8 | 1#5 BOT & 1#4 TOP | 2#5 BOT & 2#4 TOP |
| 8'-0" | 16 | 1#6 BOT & 1#5 TOP | 2#5 BOT & 2#5 TOP |
| 10'-0" | 24 | 2#7 BOT & 1#5 TOP | 2#6 BOT & 2#5 TOP |

NOTES:
1. DO NOT USE THIS SCHEDULE IF CONCENTRATED LOAD IS APPLIED TO THE LINTEL AT A HEIGHT LESS THAN HALF THE SPAN ABOVE THE LINTEL, OR IF THE HEIGHT OF BRICK ABOVE THE LINTEL EXCEEDS TEN FOOT.
2. PROVIDE TWO CELLS REINFORCED AND GROUTED SOLID JAMBS FOR OPENINGS 10'-0" AND GREATER. PROVIDE ONE CELL REINFORCED AND GROUTED SOLID JAMB FOR OPENINGS LESS THAN 10'-0". EXTEND JAMBS FROM FOUNDATION TO TOP OF WALL (JOIST/BEAM BEARING).

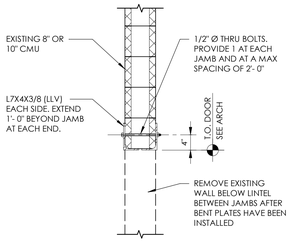



## BRICK LOOSE LINTEL SCHEDULE

| CLEAR SPAN | X = 6" | X = 6 1/2" | X = 7" | X = 7 1/2" | X = 8" |
|---|---|---|---|---|---|
| UP TO 6'-0" | L5X3 1/2X3/8 LLH | L6X6X3/8 | L6X6X3/8 | L4X4X3/8 LLV W/ 3/16" CONT BAR | L4X4X3/8 LLV W/ 3/16" CONT BAR |
| 6'-0" TO 8'-0" | L5X5X3/8 | L6X6X3/8 | L6X4X3/8 LLV W/ 3/16" CONT BAR | L6X4X3/8 LLV W/ 3/16" CONT BAR | L6X4X3/8 LLV W/ 3/16" CONT BAR |
| 8'-0" TO 10'-0" | L6X4X3/8 LLV W/ 3/16" CONT BAR | L6X4X3/8 LLV W/ 3/16" CONT BAR | L6X4X3/8 LLV W/ 3/16" CONT BAR | L6X4X3/8 LLV W/ 3/16" CONT BAR | L6X4X3/8 LLV W/ 3/16" CONT BAR |

NOTES:
1. DO NOT USE THIS SCHEDULE IF A CONCENTRATED LOAD IS APPLIED TO THE LINTEL AT A HEIGHT LESS THAN HALF THE SPAN ABOVE THE LINTEL.
2. PROVIDE 8" MINIMUM BEARING FOR ALL LINTELS.
3. ALL EXPOSED LINTELS SHALL BE GALVANIZED.
4. VERTICAL CONTROL JOINTS IN THE BRICK WITHIN DISTANCE OF CLEAR SPAN/2 FROM THE ROUGH OPENING ARE NOT ALLOWED.




CONSTRUCTION SEQUENCE

1. GROUT SOLID 1 CELL ON EACH SIDE OF NEW OPENING UP TO THE BOTTOM OF ANGLE BEARING PRIOR TO CUTTING.
3. SAWCUT SLOT FOR ANGLE IN ONE SIDE OF WALL & INSERT ANGLE.
4. SAWCUT SLOT AND INSERT ANGLE ON OTHER SIDE OF WALL.
5. INSTALL THRU BOLTS.
6. CUT OUT OPENING BELOW ANGLES.

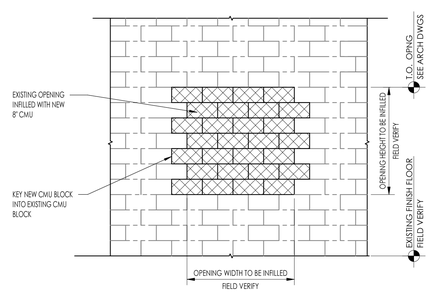
## NEW LINTEL IN EXISTING INTERIOR MASONRY WALL DETAIL FOR DOOR OPENING

NOTE:
1. PROVIDE 8" BEARING FOR NEW LINTEL AT EACH SIDE OF NEW OPENING.
2. MAXIMUM CLEAR OPENING WIDTH NOT TO EXCEED 3'-4".
3. DO NOT INSTALL EQUIPMENT, PIPING, ETC. THROUGH THE JAMB ON EITHER SIDE OF NEW WALL OPENING FROM 1'-0" ABOVE NEW LINTEL TO FOUNDATION.

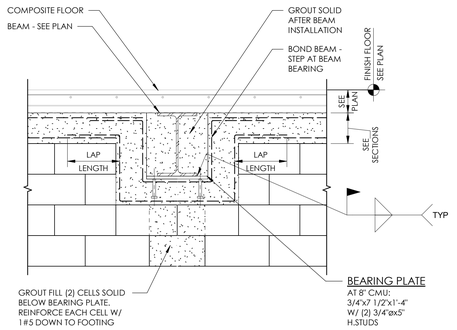



## NEW OPENING THRU EXISTING MASONRY WALL TYPICAL DETAIL

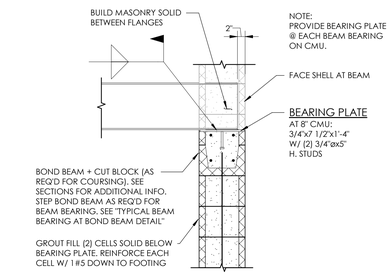
NOTES:
1. CONTRACTOR SHALL SHORE EXISTING ROOF STRUCTURE AND WALL AS REQUIRED TO INSTALL NEW DOOR OPENING(S). CONTRACTOR IS RESPONSIBLE FOR ALL SHORING DURING INSTALLATION.
2. PROVIDE LOOSE LAID LINTEL OVER OPENING ON VENEER SIDE OF OPENING, SEE LINTEL SCHEDULE. PROVIDE 8" MINIMUM BEARING ON EACH SIDE OF OPENING.



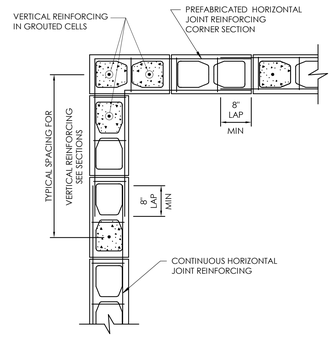

## MASONRY INFILL TYPICAL DETAIL AT EXISTING INTERIOR OPENING

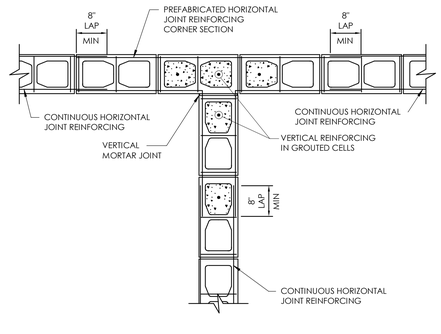



## TYPICAL BEAM BEARING AT BOND BEAM DETAIL

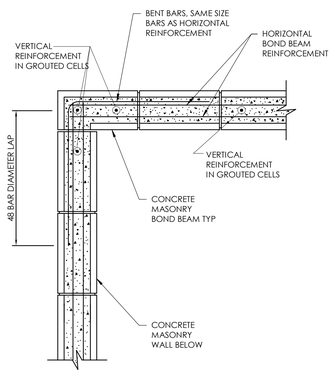


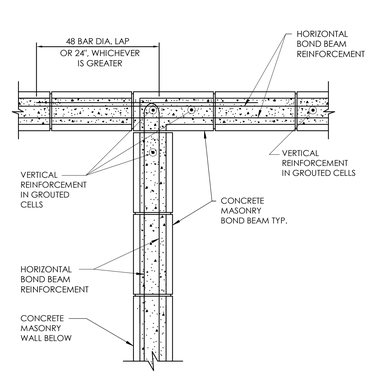

## TYPICAL BEAM/TUBE BEARING DETAIL




## TYPICAL WALL CORNER REINFORCING DETAILS




## TYPICAL BOND BEAM CORNER REINFORCING DETAILS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BIRMINGHAM, ALABAMA 35223
PHONE: 205.879.5660
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PROJECT #25112


GMC


Goodwyn Mills Cawood, LLC
2400 5th Avenue South, Suite 200
Birmingham, AL 35233
T 205.879.4462
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| ISSUE | DATE |
|---|---|
| BID SET | 05/27/2026 |

DRAWN BY: KA
CHECKED BY: CSS

**REID STATE CC WELDING & INDUSTRIAL RENOVATIONS**
ALABAMA COMMUNITY COLLEGE SYSTEM
REID STATE COMMUNITY COLLEGE
100 AL-83 EVERGREEN, AL 36401

ACCS 2026162RSTCC
GMC ABHM250047

TYPICAL DETAILS

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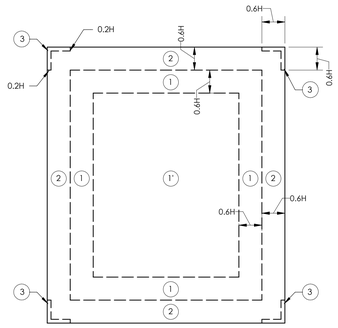



PLAN

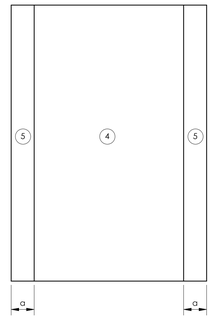
# COMPONENT AND CLADDING ZONES ROOFS, θ<7°

NOTE: h=15'

**COMPONENTS AND CLADDING ROOF PRESSURES**

| | EFFECTIVE WIND AREA | ZONE 3 GCp+ | | ZONE 3 GCp- | |
|---|---|---|---|---|---|
| ZONE 3 GABLE ROOF PRESSURES, THE CORNER PORTION OF THE ROOF. REFER TO ASCE7 - FIGURE 30.3-2A | < 10 FT² | 2.25 PSF | 8.99 PSF | -63.31 PSF | -56.57 PSF |
| | 20 FT² | 1.31 PSF | 8.05 PSF | -57.69 PSF | -50.95 PSF |
| | 50 FT² | 0.84 PSF | 7.59 PSF | -49.26 PSF | -42.52 PSF |
| | 100 FT² | 0.37 PSF | 7.12 PSF | -43.64 PSF | -36.90 PSF |
| | 200 FT² | 0.37 PSF | 7.12 PSF | -38.02 PSF | -31.28 PSF |
| | > 500 FT² | 0.37 PSF | 7.12 PSF | -29.59 PSF | -22.85 PSF |
| | EFFECTIVE WIND AREA | ZONE 2 GCp+ | | ZONE 2 GCp- | |
| ZONE 2 GABLE ROOF PRESSURES, THE EDGE PORTION OF THE ROOF. REFER TO ASCE7 - FIGURE 30.3-2A | < 10 FT² | 2.25 PSF | 8.99 PSF | -46.45 PSF | -39.71 PSF |
| | 20 FT² | 1.31 PSF | 8.05 PSF | -43.64 PSF | -36.90 PSF |
| | 50 FT² | 0.84 PSF | 7.59 PSF | -38.96 PSF | -32.22 PSF |
| | 100 FT² | 0.37 PSF | 7.12 PSF | -36.15 PSF | -29.41 PSF |
| | 200 FT² | 0.37 PSF | 7.12 PSF | -34.28 PSF | -27.53 PSF |
| | > 500 FT² | 0.37 PSF | 7.12 PSF | -29.59 PSF | -22.85 PSF |
| | EFFECTIVE WIND AREA | ZONE 1 GCp+ | | ZONE 1 GCp- | |
| ZONE 1 GABLE ROOF PRESSURES, THE INTERIOR PORTION OF THE ROOF. REFER TO ASCE7 - FIGURE 30.3-2B THROUGH FIGURE 30.3-2I | < 10 FT² | 2.25 PSF | 8.99 PSF | -35.21 PSF | -28.47 PSF |
| | 20 FT² | 1.31 PSF | 8.05 PSF | -32.40 PSF | -25.66 PSF |
| | 50 FT² | 0.84 PSF | 7.59 PSF | -29.59 PSF | -22.85 PSF |
| | 100 FT² | 0.37 PSF | 7.12 PSF | -27.72 PSF | -20.98 PSF |
| | 200 FT² | 0.37 PSF | 7.12 PSF | -24.91 PSF | -18.17 PSF |
| | > 500 FT² | 0.37 PSF | 7.12 PSF | -22.10 PSF | -15.36 PSF |
| | EFFECTIVE WIND AREA | ZONE 1' GCp+ | | ZONE 1' GCp- | |
| ZONE 1' GABLE ROOF PRESSURES, THE INTERIOR CENTER PORTION OF THE ROOF. REFER TO ASCE7 - FIGURE 30.3-2A. | < 10 FT² | 2.25 PSF | 8.99 PSF | -20.23 PSF | -13.49 PSF |
| | 20 FT² | 1.31 PSF | 8.05 PSF | -20.23 PSF | -13.49 PSF |
| | 50 FT² | 0.84 PSF | 7.59 PSF | -20.23 PSF | -13.49 PSF |
| | 100 FT² | 0.37 PSF | 7.12 PSF | -20.23 PSF | -13.49 PSF |
| | 200 FT² | 0.37 PSF | 7.12 PSF | -17.42 PSF | -10.68 PSF |
| | > 500 FT² | 0.37 PSF | 7.12 PSF | -13.67 PSF | -6.93 PSF |

IMPORTANT: A REDUCTION FACTOR OF 0.6 HAS BEEN INCLUDED IN THE ASD WIND LOAD CALCULATIONS. DO NOT REAPPLY THE FACTOR WHEN CONSIDERING LOAD COMBINATIONS.



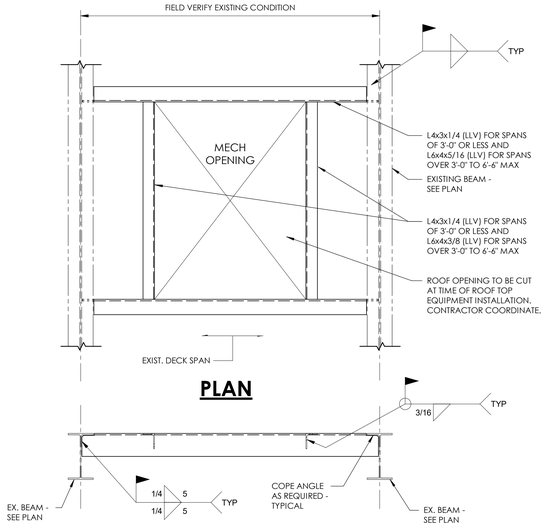

# COMPONENT AND CLADDING ZONES WALL

NOTE: a=6'

**COMPONENTS AND CLADDING WALL PRESSURES**

| | EFFECTIVE WIND AREA | ZONE 5 GCp+ | | ZONE 5 GCp- | |
|---|---|---|---|---|---|
| ZONE 5 WALL PRESSURES, DISTANCE "A" FROM THE CORNER OF THE BUILDING, CALCULATE "A" IN ACCORDANCE WITH ASCE7 - FIGURE 30.3-1 | < 10 FT² | 13.82 PSF | 19.89 PSF | -26.63 PSF | -20.57 PSF |
| | 20 FT² | 12.98 PSF | 19.05 PSF | -24.95 PSF | -18.88 PSF |
| | 50 FT² | 11.29 PSF | 17.36 PSF | -22.42 PSF | -16.35 PSF |
| | 100 FT² | 10.45 PSF | 16.52 PSF | -20.73 PSF | -14.67 PSF |
| | 200 FT² | 9.61 PSF | 15.68 PSF | -19.05 PSF | -12.98 PSF |
| | > 500 FT² | 8.77 PSF | 14.83 PSF | -16.52 PSF | -10.45 PSF |
| | EFFECTIVE WIND AREA | ZONE 4 GCp+ | | ZONE 4 GCp- | |
| ZONE 4 WALL PRESSURES, THE INTERIOR PORTION OF THE BUILDING, REFER TO ASCE7 - FIGURE 30.3-1 | < 10 FT² | 13.82 PSF | 19.89 PSF | -21.58 PSF | -15.51 PSF |
| | 20 FT² | 12.98 PSF | 19.05 PSF | -20.73 PSF | -14.67 PSF |
| | 50 FT² | 11.29 PSF | 17.36 PSF | -19.89 PSF | -13.82 PSF |
| | 100 FT² | 10.45 PSF | 16.52 PSF | -18.21 PSF | -12.14 PSF |
| | 200 FT² | 9.61 PSF | 15.68 PSF | -17.36 PSF | -11.29 PSF |
| | > 500 FT² | 8.77 PSF | 14.83 PSF | -16.52 PSF | -10.45 PSF |

IMPORTANT: A REDUCTION FACTOR OF 0.6 HAS BEEN INCLUDED IN THE ASD WIND LOAD CALCULATIONS. DO NOT REAPPLY THE FACTOR WHEN CONSIDERING LOAD COMBINATIONS.

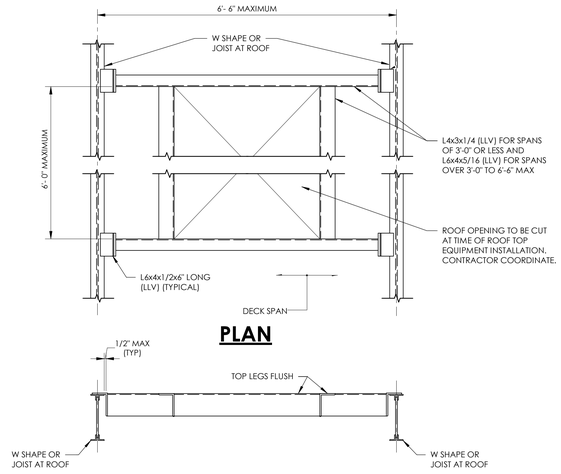



PLAN

SECTION

# TYPICAL SUPPORT FRAME AT MISCELLANEOUS ROOF OPENINGS THROUGH EXISTING ROOF

NOTES:
1. ATTACH EXISTING ROOF DECK THROUGH SUPPORT FRAME USING #10 TEK SCREWS AT 6" ON CENTER. SCREW UP THROUGH SUPPORT ANGLES INTO ROOF DECK.



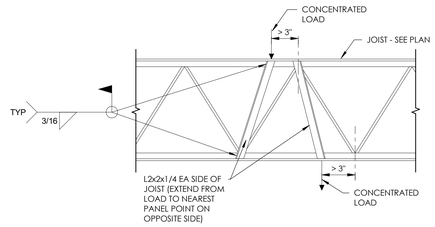

PLAN

SECTION

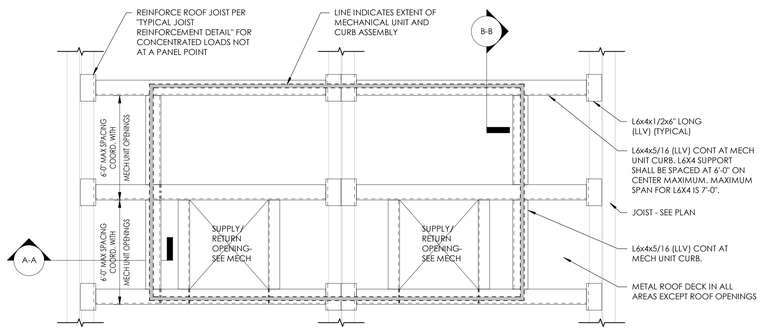
# TYPICAL DROP-IN FRAME AT RTU SUPPLY/RETURN AND MISCELLANEOUS ROOF OPENINGS

(WHERE NO CONCRETE EXISTS)

NOTE:
JOIST REINFORCING IS REQUIRED AT ANY CONCENTRATED LOAD THAT IS LOCATED A DISTANCE GREATER THAN 3" FROM THE CENTER OF THE JOIST PANEL POINT (UNLESS MORE STRINGENT REQUIREMENTS ARE NOTED BY THE JOIST MANUF). PIPE SUPPORTS FOR PIPE DIAMETERS OF 3" AND SMALLER DO NOT REQUIRE JOIST REINFORCEMENT.



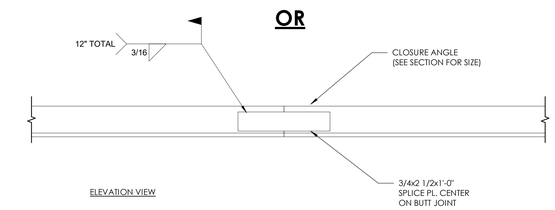

# TYPICAL JOIST REINFORCEMENT DETAIL




PLAN

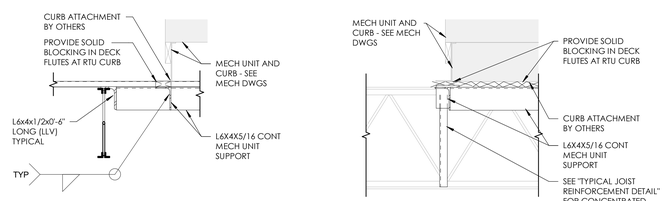
**CHORD MEMBERS TO BE CONTINUOUS. FIELD WELD USING FULL PENETRATION BUTT WELD @ SPLICE LOCATIONS.**

OR




NOTE: AT WALL CORNERS USE SIMILAR PL BUT BEND PL AT MIDPOINT TO FIT INTO CORNER.

# TYPICAL CLOSURE ANGLE SPLICE




SECTION A-A

SECTION B-B

# ROOF EQUIPMENT & OPENING FRAME DETAIL

TYPICAL AT ALL OPENINGS IN ROOF LARGER THAN 8"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BIRMINGHAM, ALABAMA 35223
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PROJECT #25112


GMC

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2400 5th Avenue South, Suite 200
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T 205.879.4462
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ISSUE | DATE
BID SET | 05/27/2026

DRAWN BY: KA
CHECKED BY: CSS

**REID STATE CC WELDING & INDUSTRIAL RENOVATIONS**
ALABAMA COMMUNITY COLLEGE SYSTEM
REID STATE COMMUNITY COLLEGE
100 AL-83 EVERGREEN, AL 36401

ACCS 2026162RSTCC
GMC ABHM250047

ALABAMA REGISTERED No. 31254 PROFESSIONAL ENGINEER CHRISTOPHER S. SMITH
05/27/2026

TYPICAL DETAILS

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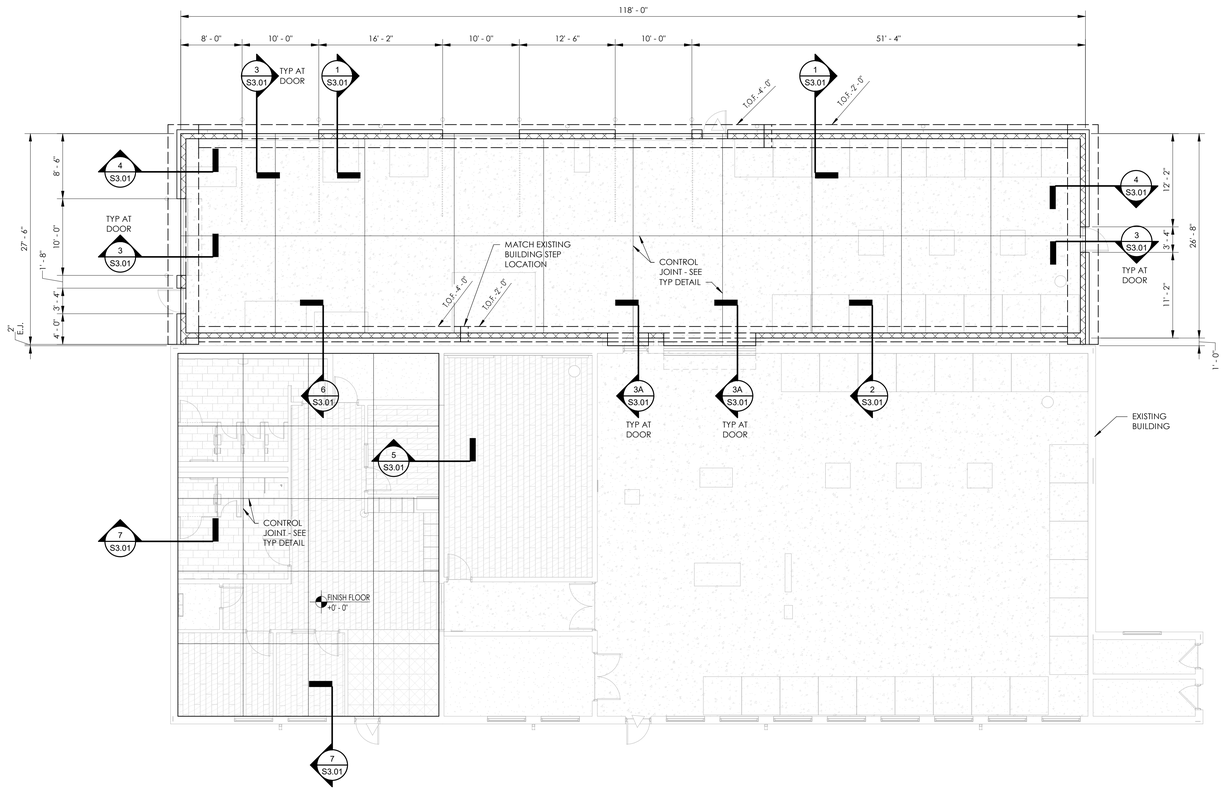
PROJECT #25112




## FOUNDATION AND FLOOR PLAN - BUILDING 300

PROJECT NORTH

Scale: 1/8" = 1'-0"

1. FINISH FLOOR (TOP OF SLAB) ELEVATION 0'-0", UNLESS NOTED.
2. TOP OF INTERIOR FOOTING ELEVATION -2'-0" BELOW FINISH FLOOR, UNLESS NOTED.
3. 4" OR 6" SLAB ON GRADE, UNLESS NOTED, SEE GENERAL NOTES AND TYPICAL DETAILS.
4. GENERAL CONTRACTOR COORDINATE LOCATION OF ALL FOOTING STEPS WITH EXISTING TOP OF FOOTING ELEVATIONS, CIVIL, UTILITY AND PLUMBING DRAWINGS.
5. GENERAL CONTRACTOR COORDINATE FLOOR DEPRESSION DEPTH, SIZE AND LOCATION WITH ARCHITECTURAL DRAWINGS.
6. GENERAL CONTRACTOR COORDINATE LOCATION OF TILE JOINTS WITH CONTROL JOINTS.

GMC

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Birmingham, AL 35233
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| BID SET | 05/27/2026 |

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CHECKED BY: CSS

**REID STATE CC WELDING & INDUSTRIAL RENOVATIONS**
ALABAMA COMMUNITY COLLEGE SYSTEM
REID STATE COMMUNITY COLLEGE
100 AL-83 EVERGREEN, AL 36401

ACCS 2026162RSTCC
GMC ABHM250047

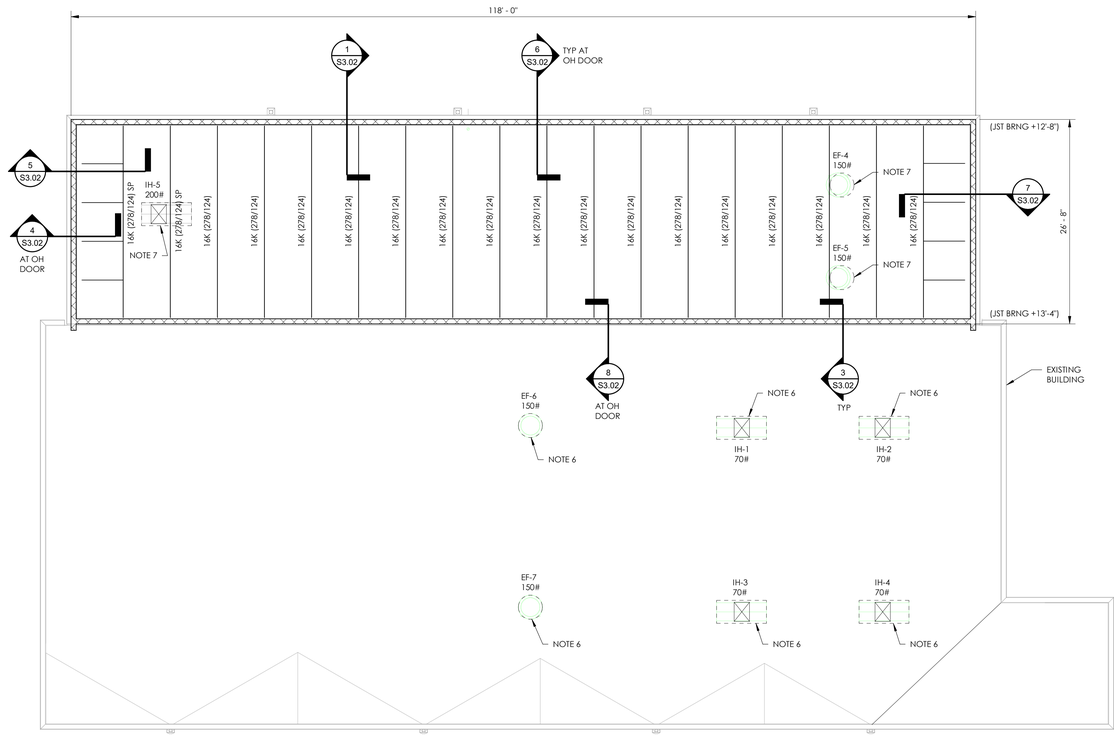
ALABAMA REGISTERED No. 31254 PROFESSIONAL ENGINEER CHARLES S. SMITH
05/27/2026

**FLOOR AND FOUNDATION PLAN - BUILDING 300**

S2.01

5/27/2026 2:44:45 PM

TUCKER-JONES
3300 CAHABA ROAD, SUITE 210
BIRMINGHAM, ALABAMA 35223
PHONE: 205.879.5660
FAX: 205.879.5606
PROJECT #25112




## ROOF RAMING PLAN - BUILDING 300

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

PROJECT NORTH

1. JOIST BEARING (TOP OF STEEL EMBED PLATE) ELEVATION NOTED AS (X'-X") ON PLAN.
2. ROOF SYSTEM: 1-1/2" (20GA) STEEL ROOF DECK SUPPORTED ON STEEL JOISTS BEARING ON MASONRY WALLS, UNLESS NOTED. SEE GENERAL NOTES FOR ROOF DECK ATTACHMENT PATTERN.
3. SPACE JOISTS EQUALLY BETWEEN MASONRY WALLS, UNLESS NOTED.
4. JOIST BEARING ELEVATIONS ARE EITHER LEVEL OR SLOPING UNIFORMLY BETWEEN NOTED ELEVATIONS.
5. JOISTS LABELED AS "SP" JOISTS SHALL BE DESIGNED FOR THE MECHANICAL UNIT LOAD SHOWN IN ADDITION TO THE SJI LOADING.
6. INDICATES NEW OPENING IN EXISTING ROOF FOR NEW MECHANICAL EQUIPMENT. PROVIDE SUPPORT FRAME FOR NEW ROOF OPENING, SEE "TYPICAL SUPPORT FRAME AT MISCELLANEOUS ROOF OPENINGS THROUGH EXISTING ROOF".
7. SEE "TYPICAL DROP-IN FRAME AT RTU SUPPLY/RETURN AND MISCELLANEOUS ROOF OPENINGS" DETAIL ON SHEET S1.05 FOR SUPPORT OF NEW MECHANICAL EQUIPMENT.

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**REID STATE CC WELDING & INDUSTRIAL RENOVATIONS**

ALABAMA COMMUNITY COLLEGE SYSTEM
REID STATE COMMUNITY COLLEGE
100 AL-83 EVERGREEN, AL 36401

ACCS 2026162RSTCC
GMC ABHM250047

ALABAMA REGISTERED No. 31254 PROFESSIONAL ENGINEER CHRISTOPHER S. SMITH
05/27/2026

**ROOF RAMING PLAN - BUILDING 300**

S2.02

5/27/2026 2:44:46 PM

TUCKER-JONES
3300 CAHABA ROAD, SUITE 210
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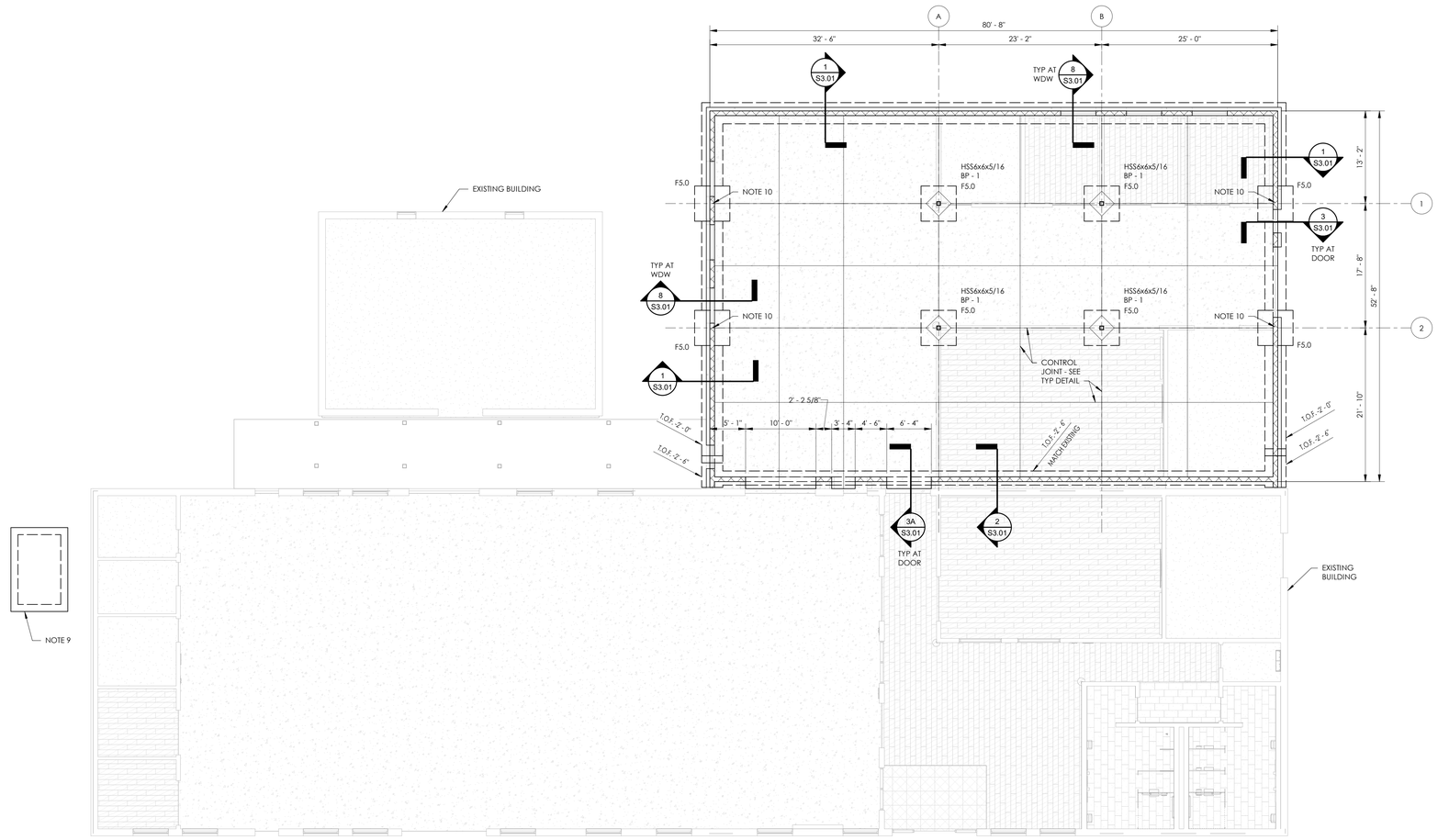
PROJECT #25112




## FOUNDATION AND FLOOR PLAN - BUILDING 700

Scale: 1/8" = 1'-0"

PROJECT NORTH

1. FINISH FLOOR (TOP OF SLAB) ELEVATION 0'-0", UNLESS NOTED.
2. TOP OF FOOTING ELEVATION -2'-0" BELOW FINISH FLOOR, UNLESS NOTED.
3. 4" OR 6" SLAB ON GRADE, UNLESS NOTED. SEE GENERAL NOTES AND TYPICAL DETAILS.
4. "FX.X" INDICATES FOOTING DESIGNATION, SEE FOOTING SCHEDULE.
5. "BP-X" INDICATES BASE PLATE DESIGNATION, SEE BASE PLATE DETAILS ON SHEET S1.03.
6. GENERAL CONTRACTOR COORDINATE LOCATION OF ALL FOOTING STEPS WITH EXISTING TOP OF FOOTING ELEVATIONS, CIVIL, UTILITY AND PLUMBING DRAWINGS.
7. GENERAL CONTRACTOR COORDINATE FLOOR DEPRESSION DEPTH, SIZE AND LOCATION WITH ARCHITECTURAL DRAWINGS.
8. GENERAL CONTRACTOR COORDINATE LOCATION OF TILE JOINTS WITH CONTROL JOINTS.
9. INDICATES NEW MECHANICAL EQUIPMENT PAD, SEE "TYPICAL MECHANICAL EQUIPMENT PAD DETAIL" ON SHEET S1.03.
10. PROVIDE TWO CELLS REINFORCED AND GROUTED SOLID FROM FOUNDATION TO ROOF GIRDER BEARING, SEE "TYPICAL BEAM BEARING DETAIL" ON SHEET S1.04.

## FOOTING SCHEDULE

| FOOTING DESIGNATION | DEPTH | REINF EW. | LENGTH | WIDTH | NOTES |
|---|---|---|---|---|---|
| F5.0 | 1' - 3" | 6#5 T&B | 5' - 0" | 5' - 0" | |

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**REID STATE CC WELDING & INDUSTRIAL RENOVATIONS**
ALABAMA COMMUNITY COLLEGE SYSTEM
REID STATE COMMUNITY COLLEGE
100 AL-83 EVERGREEN, AL 36401

ACCS 2026162RSTCC
GMC ABHM250047

ALABAMA REGISTERED PROFESSIONAL ENGINEER
No. 31254
CHRISTOPHER S. SMITH
05/27/2026

**FLOOR AND FOUNDATION PLAN - BUILDING 700**

S2.03

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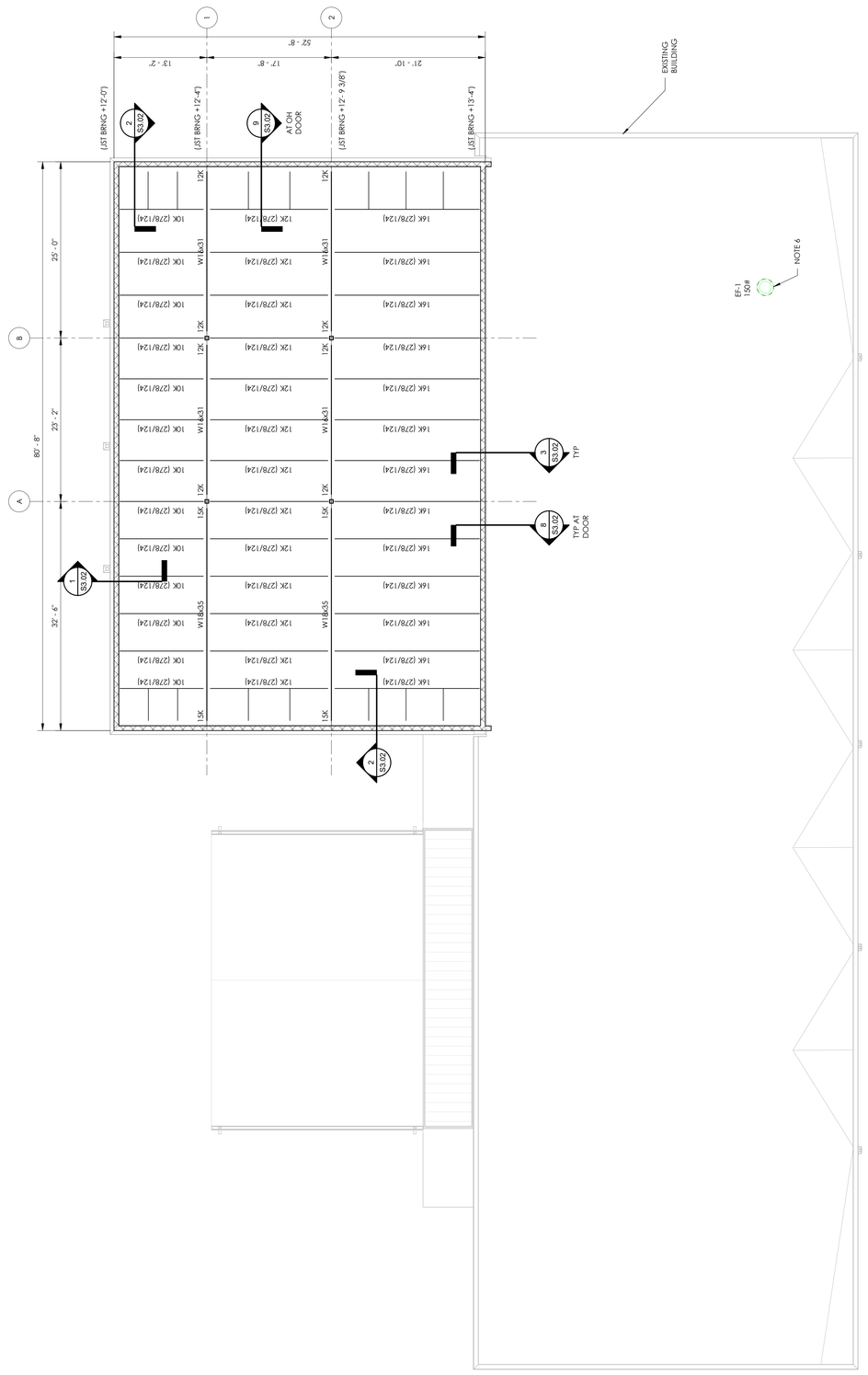
# ROOF FRAMING PLAN - BUILDING 700




## ROOF FRAMING PLAN - BUILDING 700

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

1. JOIST BEARING (TOP OF STEEL EMBED PLATE) ELEVATION NOTED AS (#'-X") ON PLAN.
2. ROOF SYSTEM: 1-1/2" [20GA] STEEL ROOF DECK SUPPORTED ON STEEL JOISTS BEARING ON STEEL BEAMS OR MASONRY WALLS, UNLESS NOTED. SEE GENERAL NOTES FOR ROOF DECK ATTACHMENT PATTERN.
3. SPACE JOISTS EQUALLY BETWEEN MASONRY WALLS AND COLUMN CENTERLINES, UNLESS NOTED.
4. JOIST BEARING ELEVATIONS ARE EITHER LEVEL OR SLOPING UNIFORMLY BETWEEN NOTED ELEVATIONS.
5. JOISTS LABELED AS "SP" JOISTS SHALL BE DESIGNED FOR THE MECHANICAL UNIT LOAD AS INDICATED ON PLAN AND SHALL BE SLOPED TO DRAIN.
6. INDICATES NEW OPENING IN EXISTING ROOF FOR NEW MECHANICAL EQUIPMENT. PROVIDE SUPPORT FRAME FOR NEW ROOF OPENING, SEE TYPICAL SUPPORT FRAME AT MISCELLANEOUS ROOF OPENINGS THROUGH EXISTING ROOF.

**REID STATE CC WELDING & INDUSTRIAL RENOVATIONS**
ALABAMA COMMUNITY COLLEGE SYSTEM
REID STATE COMMUNITY COLLEGE
100 AL-83 EVERGREEN, AL 36401

ACCS 20261623RSTCC
GMC ABHM250047

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| CHECKED BY: | CSS |

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PHONE: 205.879.5660
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PROJECT #25121

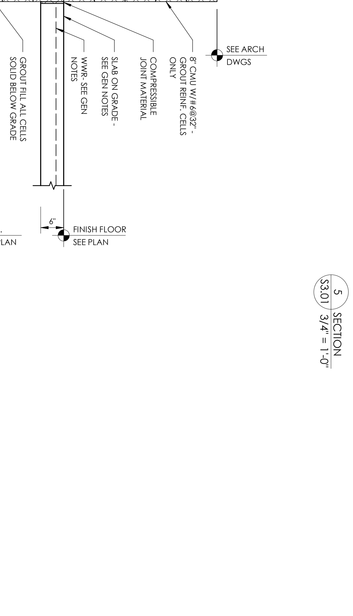
ALABAMA
REGISTERED
No. 31284
PROFESSIONAL ENGINEER
CHRISTOPHER S. SMITH
05/27/2026

S2.04

5/27/2026 2:44:47 PM

5/27/2026 2:44:48 PM

1 S3.01 SECTION 3/4" = 1'-0"

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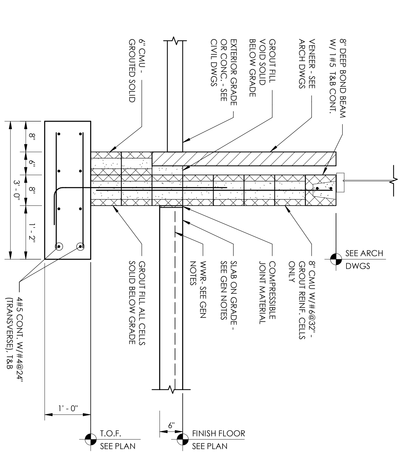


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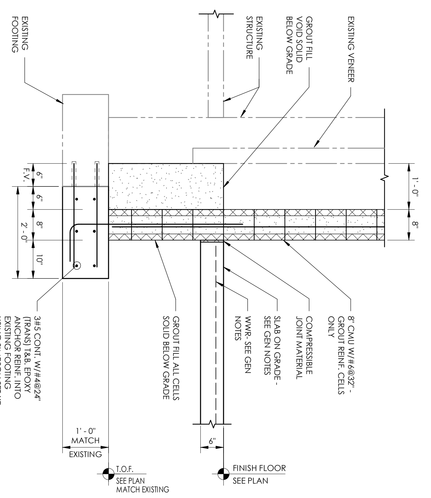
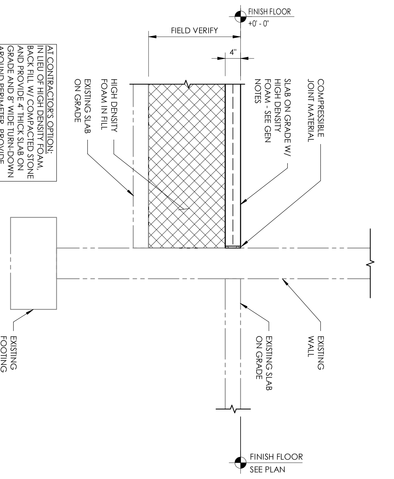
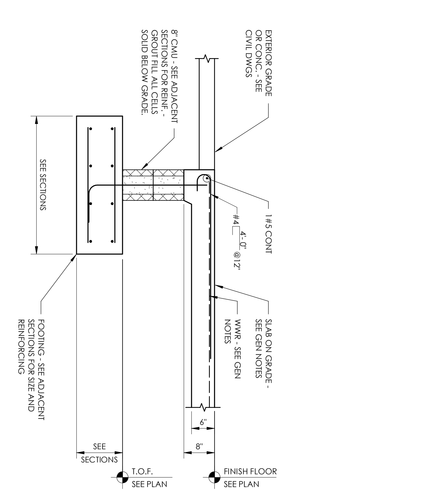



2 S3.01 SECTION 3/4" = 1'-0"




5 S3.01 SECTION 3/4" = 1'-0"

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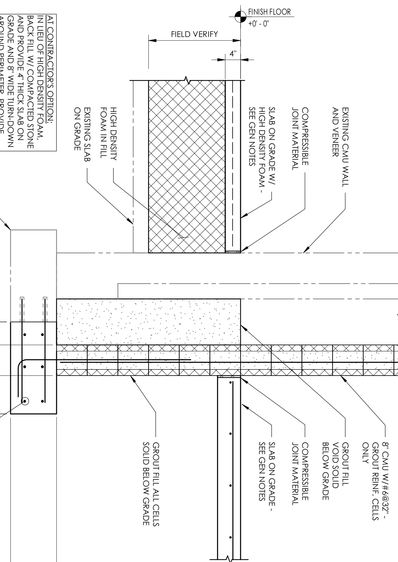
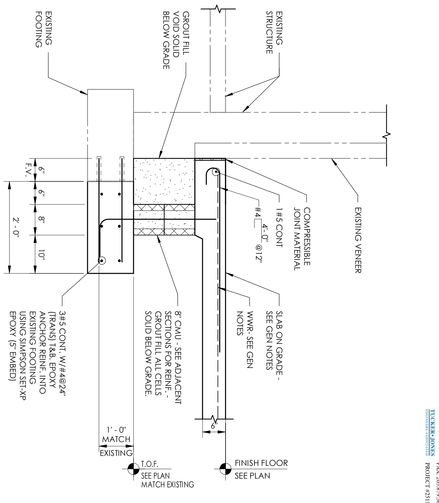
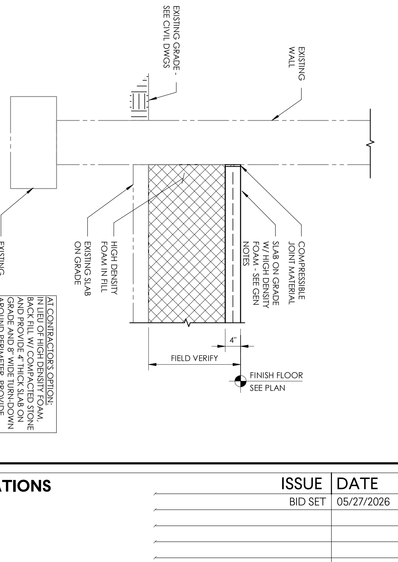



6 S3.01 SECTION 3/4" = 1'-0"




3A S3.01 SECTION 3/4" = 1'-0"




7 S3.01 SECTION 3/4" = 1'-0"


TJ ELEVATOR INTERIORS
3000 RIVERCHASE GALLERIA, SUITE 210
BIRMINGHAM, ALABAMA 35244
PHONE: 205.979.5660
FAX: 205.979.5666
PROJECT #25112


**SECTIONS - FOUNDATION**

S3.01

ALABAMA LICENSED PROFESSIONAL ENGINEER 31554 KEVIN ALLEN 05/27/2026

**REID STATE CC WELDING & INDUSTRIAL RENOVATIONS**

ALABAMA COMMUNITY COLLEGE SYSTEM
REID STATE COMMUNITY COLLEGE
100 AL-83 EVERGREEN, AL 36401

ACCS 2026162RSTCC
GMC ABHM250047

| ISSUE | DATE |
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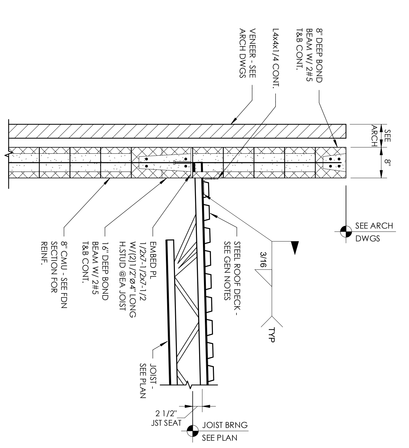
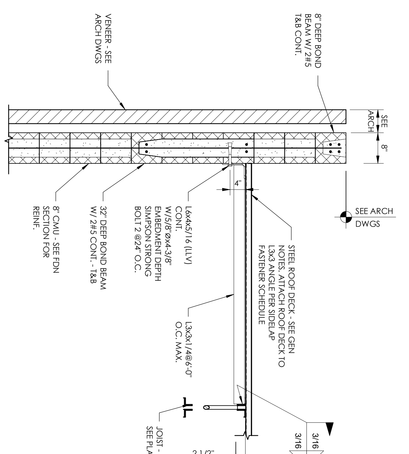
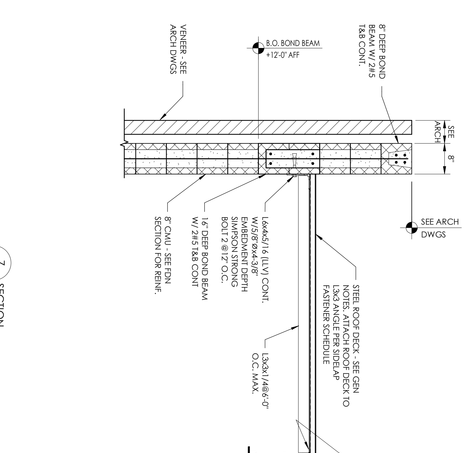


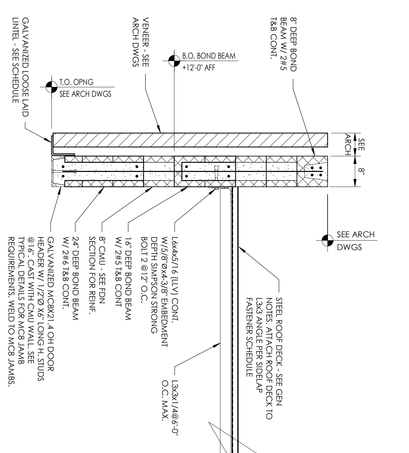

1 S3.02 SECTION 3/4" = 1'-0"



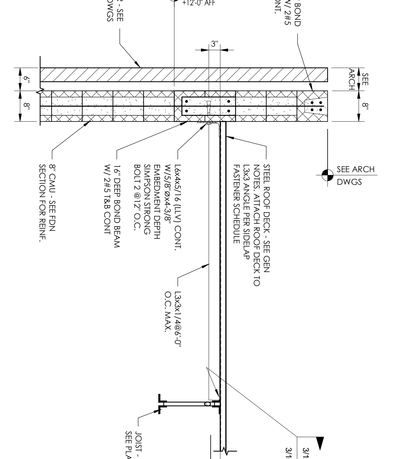

2 S3.02 SECTION 3/4" = 1'-0"



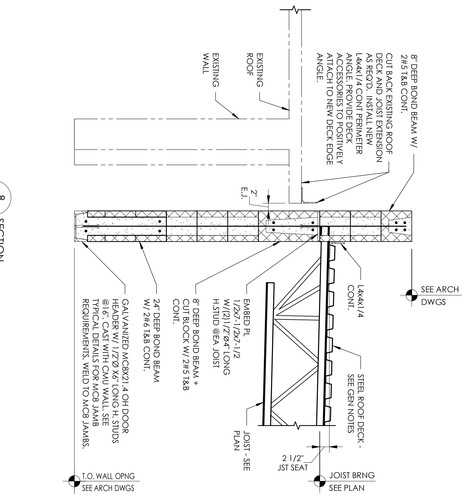

3 S3.02 SECTION 3/4" = 1'-0"




4 S3.02 SECTION 3/4" = 1'-0"




5 S3.02 SECTION 3/4" = 1'-0"



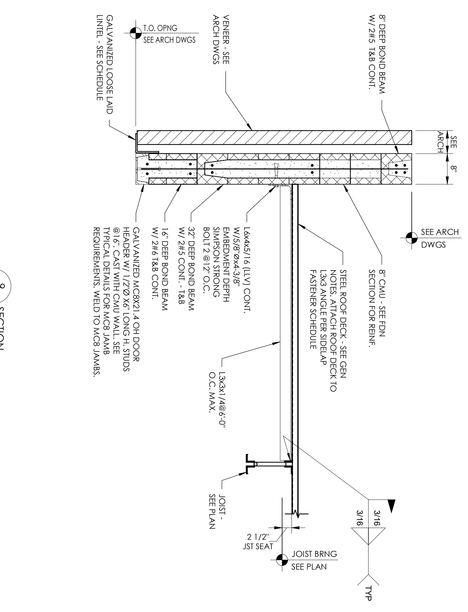

6 S3.02 SECTION 3/4" = 1'-0"



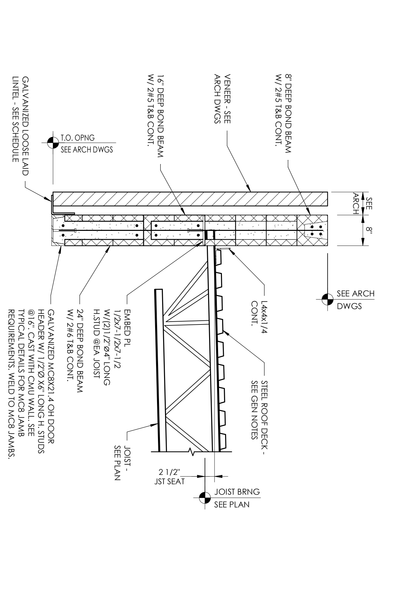

7 S3.02 SECTION 3/4" = 1'-0"




8 S3.02 SECTION 3/4" = 1'-0"




9 S3.02 SECTION 3/4" = 1'-0"




10 S3.02 SECTION 3/4" = 1'-0"




11 S3.02 SECTION 3/4" = 1'-0"


TUCKER ENGINEERING
3500 CAHABA ROAD, SUITE 210
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PROJECT 125112


**SECTIONS - ROOF**

# S3.02

**REID STATE CC WELDING & INDUSTRIAL RENOVATIONS**

ALABAMA COMMUNITY COLLEGE SYSTEM
REID STATE COMMUNITY COLLEGE
100 AL-83 EVERGREEN, AL 36401

ACCS 2026162RSTCC
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# HVAC DUCTWORK LEGEND

- NEW DUCTWORK
- CEILING RETURN GRILLE 24X24 CUBE CORE
- LOUVERED FACE CEILING DIFFUSER
- CEILING RETURN OR EXHAUST, REGISTER OR GRILLE
- LAY-IN LOUVERED FACE CEILING DIFFUSER
- SR — SIDEWALL SUPPLY REGISTER
- SUPPLY AIR DUCT SECTION
- RETURN OR EXHAUST AIR DUCT SECTION
- ROUND 90° ELBOW
- ROUND, 45° ELBOW
- RECTANGULAR, 90° ELBOW WITH TURNING VANES
- RECTANGULAR, 45° ELBOW
- DUCT TURNING DOWN
- DUCT TURNING UP
- RISE OR DROP IN DUCT
- FD — FIRE DAMPER (RATING EQUAL TO WALL RATING) (PROVIDE ACCESS DOOR IN DUCT) (RUSKIN DIBD2 OR EQUAL)
- SFD — COMBINATION SMOKE/FIRE DAMPER (PROVIDE ACCESS DOOR IN DUCT)
- SD — SMOKE DAMPER (RUSKIN SD50 OR EQUAL)
- MD — MANUAL DAMPER (RECT. = RUSKIN MD25 OR EQUAL, RND. = RUSKIN MDRS25 OR EQUAL)
- AD — AUTOMATIC DAMPER (RUSKIN CD50 OR EQUAL)
- MD — RECTANGULAR BRANCH OFF RECTANGULAR DUCT WITH MANUAL DAMPER
- ROUND MEDIUM PRESSURE DUCT TAP OFF RECTANGULAR MEDIUM PRESSURE DUCT WITH BELLMOUTH FITTING. (SEE SPECIFICATIONS)
- FLEXIBLE DUCT

# HVAC PIPING LEGEND

- NEW PIPING
- CH — CHILLED WATER SUPPLY LINES
- CHR — CHILLED WATER RETURN LINES
- CW — CONDENSER WATER SUPPLY
- CWR — CONDENSER WATER RETURN
- D — AC UNIT DRAIN LINES
- HW — HOT WATER SUPPLY
- HWR — HOT WATER RETURN
- RS — REFRIGERANT SUCTION LINES
- RL — REFRIGERANT LIQUID LINES
- NPW — NON-POTABLE WATER LINES
- GRADE DOWN IN DIRECTION OF ARROW, 1" IN 20 FT.
- BALL VALVE
- BUTTERFLY VALVE
- GATE VALVE
- STRAINER (Y)
- BRANCH OFF TOP OF MAIN
- BRANCH OFF BOTTOM OF MAIN
- PRESSURE REDUCING STATION
- FLANGED UNION
- SCREWED UNION
- CHECK VALVE
- PRESSURE RELIEF VALVE
- HOSE BIBB
- RISE OR DROP IN PIPE
- BRANCH OFF SIDE OF MAIN
- WATER FLOW METERING DEVICE
- 3/4" GATE VALVE WITH ADAPTER TO 3/4" HOSE BIBB
- 3/4" BALL VALVE WITH ADAPTER TO 3/4" HOSE BIBB
- 9" THERMOMETER (0°-100°F CHW) (40°-240°F HW) (30°-130°F CW)
- 4-1/2" PRESSURE GAUGE (0-100 PSI)
- OR — BUTTERFLY VALVE
- OR — AUTO. BUTTERFLY VALVE
- TRIPLE DUTY VALVE
- CALIBRATED BALANCING VALVE
- AAV OR — AAV - AUTO. AIR VENT (MARKED OR SHOWN)
- FLEX. CONNECTION
- PETES PLUG
- SUCTION DIFFUSER WITH STRAINER

# AIR DEVICE LEGEND

| MARK | DESCRIPTION | (X) | MODEL # |
|---|---|---|---|
| LD(X) | LOUVER FACE 24"X24" LAY-IN CEILING DIFFUSER. 4-WAY THROW UNLESS NOTED OTHERWISE. CFM SHOWN. | SQUARE NECK SIZE<br>NECK SIZE / ROUND RUNOUT<br>6 X 6 / 8"ø<br>9 X 9 / 8"ø<br>12 X 12 / 10"ø<br>15 X 15 / 12"ø<br>18 X 18 / 14"ø | TITUS TDC-AA |
| SD(X) | SAME AS LD, SURFACE MOUNTED. | SQUARE NECK SIZE | TITUS TDC-AA |
| SR | SIDE WALL SUPPLY REGISTER, SIZE AND CFM SHOWN. | -- | TITUS 272 |
| E(X) | CEILING EXHAUST GRILLE. 1/2" X 1/2" X 1/2" ALUMINUM CORE | SQUARE NECK SIZE | TITUS 50F |
| T(X) | CEILING TRANSFER GRILLE. 1/2" X 1/2" X 1/2" ALUMINUM CORE | SQUARE NECK SIZE | TITUS 50F |
| R(X) | CEILING RETURN GRILLE. 1/2" X 1/2" X 1/2" ALUMINUM CORE | SQUARE NECK SIZE | TITUS 50F |
| WRG | WALL RETURN GRILLE, SIZE AND CFM SHOWN. | -- | TITUS 350 |
| WER | WALL EXHAUST REGISTER, SIZE AND CFM SHOWN. | -- | TITUS 350 |
| WTG | WALL TRANSFER GRILLE. SIZE SHOWN. | -- | TITUS 350 |
| DL | INDUSTRIAL SUPPLY ALUMINUM DRUM | -- | TITUS DL |
| LSD(X) | LINEAR SLOT CEILING SUPPLY DIFFUSER, 4'-0" LONG UNLESS NOTED OTHERWISE | NUMBER OF 3/4" SLOTS | TITUS ML |
| | | | |

# GENERAL NOTES:

1. MECHANICAL DRAWINGS ARE DIAGRAMMATIC AND SUBJECT TO REQUIREMENTS OF ARCHITECTURAL DRAWINGS AND CONDITIONS EXISTING IN THE FIELD. MECHANICAL DRAWINGS INDICATE GENERALLY THE LOCATION OF COMPONENTS AND ARE NOT INTENDED TO SHOW ALL FITTINGS OR ALL DETAILS OF THE WORK TO BE PERFORMED.
2. FOLLOW THE DRAWINGS CLOSELY, COORDINATE DIMENSIONS WITH ARCHITECTURAL DRAWINGS AND FIELD CONDITIONS. DO NOT SCALE MECHANICAL DRAWINGS FOR LOCATIONS OF SYSTEM COMPONENTS.
3. COORDINATE CONSTRUCTION OF ALL MECHANICAL WORK WITH ARCHITECTURAL, STRUCTURAL, CIVIL, ELECTRICAL WORK, ETC., SHOWN ON OTHER CONTRACT DOCUMENT DRAWINGS.
4. MAKE NO CHANGES WITHOUT THE ARCHITECT'S WRITTEN PERMISSION. IN CASE OF DOUBT, OBTAIN ARCHITECT'S DECISION BEFORE PROCEEDING WITH WORK. FAILURE TO FOLLOW THIS INSTRUCTION SHALL MAKE THE CONTRACTOR LIABLE FOR DAMAGE TO OTHER WORK AND RESPONSIBLE FOR REMOVING AND REPAIRING DEFECTIVE OR MISLOCATED WORK IN PROPER MANNER.
5. DO NOT SCALE DRAWINGS TO LOCATE DIFFUSERS AND EQUIPMENT. COORDINATE WITH NEW AND EXISTING LIGHTING, ELECTRICAL CONDUIT, AND ALL EXISTING FIELD CONDITIONS.
6. VERIFY ALL EQUIPMENT VOLTAGES WITH ELECTRICAL DRAWINGS AND REPORT ANY INCONSISTENCIES TO THE ARCHITECT PRIOR TO ORDERING EQUIPMENT.
7. PROTECT MECHANICAL EQUIPMENT FROM DAMAGE DURING CONSTRUCTION. WHEN INSTALLATION IS COMPLETE, CLEAN EQUIPMENT AS REQUIRED.
8. INSTALL ALL EQUIPMENT TO PROVIDE NORMAL SERVICE ACCESS TO ALL COMPONENTS. INSTALL IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS. IF MANUFACTURER'S INSTRUCTIONS CONFLICT WITH CONTRACT DOCUMENTS, OBTAIN ARCHITECT'S DECISION BEFORE PROCEEDING.
9. FURNISH ACCESS DOORS FOR VALVES, FIRE DAMPERS, DAMPERS, CONTROLS, AIR VENTS, TRAP CLEAN OUTS, AND OTHER ITEMS LOCATED ABOVE NON-LIFTOUT CEILINGS OR BEHIND PARTITIONS OR WALLS. PROVIDE FIRE DAMPERS IN DUCTWORK, GRILLES, AND REGISTERS WITH FIRE RATING EQUAL TO RATING OF WALL OR CEILING. ALL FIRE DAMPERS MAY OR MAY NOT BE SHOWN ON MECHANICAL DRAWINGS. CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE ALL FIRE RATED WALL AND CEILING LOCATIONS AND RATINGS WITH ARCHITECTURAL DRAWINGS.
10. ALL WORK SHALL COMPLY WITH ALL APPLICABLE CODES AND STANDARDS (SEE SPECIFICATIONS).

## FANS BUILDING 300

| MARK | SERVES | TYPE | CFM | E.S.P. (IN. WG) | MIN. WHEEL SIZE (IN.) | MOTOR HP | MOTOR V/Φ/Hz | ACCESSORIES | INTERLOCK W/ | DESIGN BASIS |
|---|---|---|---|---|---|---|---|---|---|---|
| EF-1 | WOMENS 305 | H | 200 | 0.5 | -- | 102w | 120/1/60 | 6 | LIGHT SWITCH | LOREN COOK GC-186 |
| EF-2 | MENS 304 | H | 200 | 0.5 | -- | 102w | 120/1/60 | 6 | LIGHT SWITCH | LOREN COOK GC-186 |
| EF-3 | JANITOR 303 | H | 50 | 0.25 | -- | 24.1w | 120/1/60 | 6 | LIGHT SWITCH | LOREN COOK GC-128 |
| EF-4 | ADDITION LAB 312 | A | 5,000 | 0.5 | -- | 1.0 | 460/3/60 | 2 | VFD | LOREN COOK ACED 180 |
| EF-5 | ADDITION LAB 312 | A | 5,000 | 0.5 | -- | 1.0 | 460/3/60 | 2 | VFD | LOREN COOK ACED 180 |
| EF-6 | LAB 310 | A | 5,000 | 0.5 | -- | 1.0 | 460/3/60 | 2 | VFD | LOREN COOK ACED 180 |
| EF-7 | LAB 310 | A | 5,000 | 0.5 | -- | 1.0 | 460/3/60 | 2 | VFD | LOREN COOK ACED 180 |

**FAN TYPES:**

- A CENTRIFUGAL ROOF EXHAUSTER DIRECT DRIVE
- B CENTRIFUGAL ROOF EXHAUSTER BELT DRIVE
- C PROPELLER EXHAUST FAN DIRECT DRIVE
- D PROPELLER EXHAUST FAN BELT DRIVE
- E CENTRIFUGAL VENT SET, BELT DRIVE
- F IN-LINE CENTRIFUGAL DIRECT DRIVE
- G IN-LINE CENTRIFUGAL BELT DRIVE
- H CENTRIFUGAL CEILING EXHAUST FAN
- J PROPELLER VENTILATION FAN DIRECT DRIVE

**FAN ACCESSORIES:**

1. BIRDSCREEN, ROOF CURB (MINIMUM 8" ABOVE INSULATION), BACKDRAFT DAMPER, DISCONNECT SWITCH.
2. WIRE GUARD, WALL COLLAR, GSS WALL SHUTTER, WEATHER HOOD. INSTALL HIGH AS POSSIBLE.
3. SPRING ISOLATORS, TWO SPEED (1800/900 RPM) MOTOR, QUICK OPENING ACCESS DOOR DRAIN, GRAVITY DISCHARGE SHUTTER, MOTOR AND DRIVE WEATHER HOOD.
4. FLEXIBLE CONNECTORS, RUBBER-IN-SHEAR ISOLATORS, SOLID STATE SPEED CONTROL, DISCONNECT SWITCH, AND BACKDRAFT DAMPER.
5. FLEXIBLE CONNECTORS, SPRING ISOLATORS, DISCONNECT SWITCH, AND BACKDRAFT DAMPER.
6. REMOVABLE ALUMINUM CEILING GRILLE, BACKDRAFT DAMPER, SPEED CONTROLLER, RUBBER-IN-SHEAR ISLOATORS, DISCONNECT SWITCH, WALL CAP.
7. CONNECT TO EMERGENCY POWER
8. BIRDSCREEN, ROOF CURB (MINIMUM 8" ABOVE INSULATION), BACKDRAFT DAMPER, DISCONNECT SWITCH, VARIABLE FREQUENCY DRIVE.

## HOT WATER BOILERS - BUILDING 700

| MARK | TYPE | INPUT (MBH) | OUTPUT (MBH) | TURNDOWN | EFFICIENCY | GPM | L.W.T. (°F) | E.W.T. (°F) | MAX. ΔP (FT.) | ELECTRICAL V/Φ/Hz | FLA | MCA | ACCESSORIES | BASIS OF DESIGN | ESTIMATED WEIGHT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| B-1 | A | 1,500 | 1,464 | 15:1 | 97.6% | 84 | 160 | 130 | 20 | 120/1/60 | 25 | 30 | 1 2 3 4 | FULTON EXE-1500 | 1,400 LBS. |

**TYPE:**

A ASME CERTIFIED, FIRE TUBE CONDENSING BOILER

**NOTES:**

A SCCR RATING: 10,000 AMPS

B CAPACITY BASED ON A MIXTURE OF WATER AND 20% (BY WT.) ETHYLENE GLYCOL AS THE FLUID BEING UTILIZED.

**ACCESSORIES:**

1. LOW WATER CUTOFF, HIGH AND LOW GAS PRESSURE SWITCHES, WATER FLOW SWITCH, VENT TEMPERATURE CUTOFF
2. OUTDOOR AIR SENSOR, INLET AND OUTLET TEMP. SENSORS, HIGH AND LOW VOTAGE TERMINAL STRIPS, ASME RELIEF VALVE, TEMP. & PRESSURE GAUGES
3. CONDENSATE NEUTRALIZTION KIT, DIRECT VENTING, BAS GATEWAY, CSD1 COMPLIANT, CSA CERTIFIED, AHRI CERTIFIED, LOW AIR PRESSURE SWITCHES
4. 8" PVC INTAKE WITH ROOF HOOD WITH BIRDSCREEN AND 6" CAT. IV ROUND ROOF VENT WITH CAP.

## AIR SEPARATOR - BUILDING 700

| MARK | SYSTEM | PIPE CONNECTION | GPM | DESIGN BASIS BELL & GOSSETT |
|---|---|---|---|---|
| AS-1 | HOT WATER | 3" | 103 | ROLAIRTROL RL-3F |
| AS-2 | CHILLED WATER | 3" | 84 | ROLAIRTROL RL-3F |

## EXPANSION TANK - BLDG 700

| MARK | SYSTEM | VOLUME (GALLONS) | ACCEPTANCE (GALLONS) | DESIGN BASIS |
|---|---|---|---|---|
| ET-1 | HOT WATER | 80.0 | 52.0 | AMTROL 200-L |
| CT-2 | CHILLED WATER | 53 | 34.5 | AMTROL 200-L |

## SPLIT SYSTEM AIR CONDITIONING INDOOR UNIT

| MARK | LOCATION | TYPE | MAX. CFM | COOLING TOTAL (MBH) | COOLING SENSIBLE (MBH) | SEER2 | HEATING (MBH) | ELECTRICAL V/Φ/Hz | ELECTRICAL MCA | ELECTRICAL MOCP | NOMINAL TONS | BASIS OF DESIGN MITSUBISHI |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| AC-A | BUILDING 300 DATA 308 | WALL MOUNTED | 775 | 24.0 | 19.2 | 22.6 | --- | 208/1/60 | 1.0 | 15.0 | 2.0 | PKA-AK24NL |
| AC-B | BUILDING 700 ELEC 707 | WALL MOUNTED | 775 | 24.0 | 19.2 | 22.6 | --- | 208/1/60 | 1.0 | 15.0 | 2.0 | PKA-AK24NL |
| AC-C | BUILDING 700 DATA 720 | WALL MOUNTED | 775 | 24.0 | 19.2 | 22.6 | --- | 208/1/60 | 1.0 | 15.0 | 2.0 | PKA-AK24NL |

**ACCESSORIES**

1. WIRED WALL MOUNTED CONTROLLER.
2. PROVIDE DISCONNECT SWITCH.
3. CONDENSATE PUMP AND PAN SAFETY SWITCH.
4. PROVIDE CONDENSATE PUMP WITH MINIMUM 12 FT. OF HEAD PRESSURE CAPABILITY. PROVIDE MOUNTING BRACKET.
5. REFRIGERANT LEAKAGE SENSOR, MITSUBISHI MAC-100RS-E OR EQUAL.

**NOTES:**

A COOLING CAPACITY IS NET CAPACITY @ 95°F AMBIENT.

B HEATING CAPACITY IS NET CAPACITY @ 47°F AMBIENT.

C INDOOR UNIT POWERED BY OUTDOOR UNIT

D ALL CONDENSATE DRIAN PIPING SHALL BE STANDARD WEIGHT GALVANIZED OR TYPE L COPPER PIPE BEGINNING AT UNIT PAN CONNECTION TO POINT OF DISCHARGE. NO RUBBER OR PLASTIC PIPE ALLOWED. SEE SPECIFICATIONS SECTION 23 1000, 2.1 HVAC DRAIN PIPING. PROVIDE SEPARATION POINTS (UNIONS) AS REQUIRED FOR DRAIN CLEANING AND MAINTENANCE.

## SPLIT SYSTEM AIR CONDITIONING OUTDOOR UNIT

| MARK | SERVES | ELECTRICAL V/Φ/Hz | ELECTRICAL MCA | ELECTRICAL MOCP | NOMINAL TONS | ESTIMATED WEIGHT | BASIS OF DESIGN MITSUBISHI |
|---|---|---|---|---|---|---|---|
| CU-A | AC-A | 208/1/60 | 22 | 37 | 2.0 | 160 LBS. | PUZ-AH24NL |
| CU-B | AC-B | 208/1/60 | 22 | 37 | 2.0 | 160 LBS. | PUZ-AH24NL |
| CU-C | AC-C | 208/1/60 | 22 | 37 | 2.0 | 160 LBS. | PUZ-AH24NL |

**ACCESSORIES**

1. CONDENSER CRANKCASE HEATER AND LOW AMBIENT CONTROL.
2. PROVIDE DISCONNECT SWITCH.
3. PROVIDE ALUMINUM JACKET ON ALL OUTDOOR PIPING.

## LOUVER SCHEDULE BUILDING 300

| MARK | MOUNT | SIZE | AREA SERVED | MIN. FREE AREA | MINIMUM PRESSURE DROP IN W.G. | CFM | DESIGN BASIS |
|---|---|---|---|---|---|---|---|
| LV-1 | SIDEWALL | 4'X8' | WELDING LAB | 50% | 0.20 | 10,000 | RUSKIN ELF375DX |

1. LOUVER TO INCLUDE FLANGE FRAME AND KYNAR FINISH. (COLOR TO BE SELECTED BY ARCHITECT).
2. PROVIDE AUTOMATIC DAMPER.

## PUMPS - BUILDING 700

| MARK | TYPE | SYSTEM | GPM | HEAD (FT.) | MOTOR HP | MOTOR V/Φ/Hz | RPM | REMARKS |
|---|---|---|---|---|---|---|---|---|
| HWP-1 | IN LINE HOT WATER PUMP | BOILER | 29 | 50 | 1.5 | 208/3/60 | 1,800 | VFD |
| HWP-2 | IN LINE HOT WATER PUMP | BOILER | 29 | 50 | 1.5 | 208/3/60 | 1,800 | VFD |

## DEHUMIDIFIER - BUILDING 700

| MARK | SERVES | CFM | "W.G.S.P. EXT. SP | MOTOR AMPS | MOTOR V/ø | WATER REMOVAL | ACCESSORIES | DESIGN BASIS |
|---|---|---|---|---|---|---|---|---|
| DH-1 | STORAGE | 495 | 0.2" | 13.2 | 115/1 | 205 PINTS /DAY | 1 2 | SANTA FE ULTRA205 |
| DH-2 | STORAGE | 495 | 0.2" | 13.2 | 115/1 | 205 PINTS /DAY | 1 2 | SANTA FE ULTRA205 |

**FAN ACCESSORIES:**

1. COMPACT HANG KIT - 4036695.
2. MERV 13 FILTERS.

## BUFFER TANK - BLDG 700

| MARK | SYSTEM | VOLUME (GALLONS) | DESIGN BASIS |
|---|---|---|---|
| BT-1 | HOT WATER | 50 | TACO BTH |

## ROOF HOODS BUILDING 300

| MARK | TYPE | MANUFACTURER | DESIGN BASIS | APPROX. WEIGHT |
|---|---|---|---|---|
| IH-1 | A | GREENHECK | FGI 24X24 THROAT 30X30 | 70 LBS. |
| IH-2 | A | GREENHECK | FGI 24X24 THROAT 30X30 | 70 LBS. |
| IH-3 | A | GREENHECK | FGI 24X24 THROAT 30X30 | 70 LBS. |
| IH-4 | A | GREENHECK | FGI 24X24 THROAT 30X30 | 70 LBS. |
| IH-5 | A | GREENHECK | FGI 30X78 THROAT 36X84 | 200 LBS. |

**HOOD TYPES:**

A INTAKE

NOTES:

PROVIDE AUTOMATIC DAMPER INTERLOCKED WITH VENTILATION FANS

## FANS BUILDING 700

| MARK | SERVES | TYPE | CFM | E.S.P. (IN. WG) | MIN. WHEEL SIZE (IN.) | MOTOR HP | MOTOR V/Φ/Hz | ACCESSORIES | INTERLOCK W/ | DESIGN BASIS |
|---|---|---|---|---|---|---|---|---|---|---|
| EF-1 | BATHROOMS | A | 450 | 0.25 | -- | .125 | 120/1/60 | 1 | BAS | LOREN COOK ACED 90C15 |
| EF-2 | MECH. 705 | H | 250 | 0.25 | -- | .167 | 120/1/60 | 4 | WALL T'STAT @ 85'F AND BAS | LOREN COOK 90SQN12D |

**FAN TYPES:**

- A CENTRIFUGAL ROOF EXHAUSTER DIRECT DRIVE
- B CENTRIFUGAL ROOF EXHAUSTER BELT DRIVE
- C PROPELLER EXHAUST FAN DIRECT DRIVE
- D PROPELLER EXHAUST FAN BELT DRIVE
- E CENTRIFUGAL VENT SET, BELT DRIVE
- F IN-LINE CENTRIFUGAL DIRECT DRIVE
- G IN-LINE CENTRIFUGAL BELT DRIVE
- H CENTRIFUGAL CEILING EXHAUST FAN
- J PROPELLER VENTILATION FAN DIRECT DRIVE

**FAN ACCESSORIES:**

1. BIRDSCREEN, ROOF CURB (MINIMUM 8" ABOVE INSULATION), BACKDRAFT DAMPER, DISCONNECT SWITCH.
2. WIRE GUARD, WALL COLLAR, GSS WALL SHUTTER, WEATHER HOOD.
3. SPRING ISOLATORS, TWO SPEED (1800/900 RPM) MOTOR, QUICK OPENING ACCESS DOOR DRAIN, GRAVITY DISCHARGE SHUTTER, MOTOR AND DRIVE WEATHER HOOD.
4. FLEXIBLE CONNECTORS, RUBBER-IN-SHEAR ISOLATORS, SOLID STATE SPEED CONTROL, DISCONNECT SWITCH, AND BACKDRAFT DAMPER.
5. FLEXIBLE CONNECTORS, SPRING ISOLATORS, DISCONNECT SWITCH, AND BACKDRAFT DAMPER.
6. REMOVABLE ALUMINUM CEILING GRILLE, BACKDRAFT DAMPER, SPEED CONTROLLER, RUBBER-IN-SHEAR ISLOATORS, DISCONNECT SWITCH, WALL CAP.
7. CONNECT TO EMERGENCY POWER
8. BIRDSCREEN, ROOF CURB (MINIMUM 8" ABOVE INSULATION), BACKDRAFT DAMPER, DISCONNECT SWITCH, VARIABLE FREQUENCY DRIVE.


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HVAC SCHEDULES, NOTES, AND LEGENDS

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## AIR HANDLING UNITS - BUILDING 700

| MARK | TYPE | LOCATION | SUPPLY FAN | | | | | | PREHEAT COIL | | | | | COOLING COIL | | | | | | | | | | REHEAT COIL | | | | | MCA CIRCUIT #1 | MOCP CIRCUIT #1 | ACCESSORIES | DESIGN BASIS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | CFM | W.G. TOTAL S.P. | MIN. WHEEL DIA. – TYPE | MIN. OSA CFM | MOTOR HP | MOTOR V/Φ/Hz | CFM | MBH | AIR ENT °F | MAX. FACE VEL. (FPM) | GPM @ 180°F | CFM | SENS. MBH | TOTAL MBH | AIR ENT. °FDB | AIR ENT. °FWB | AIR LVG. °FDB | AIR LVG. °FWB | GPM | EWT(F) | MAX. F.V. FPM | CFM | MBH | AIR ENT °F | MAX. F.V. FPM | GPM @ 180°F | | | | |
| AHU–1 | (A) | BUILDING 700 | 13,500 | 4.36 | DIRECT DRIVE PLENUM | 2,440 | (2)–7.5 | 208/3/60 | 13,500 | 375.41 | 60.5 | 500 | 33.37 | 13,500 | 372.03 | 529.57 | 80.0 | 67.0 | 55.0 | 54.2 | 95.21 | 44 | 500 | 13,500 | 300.0 | 55.0 | 500 | 30.0 | 63.0 | 90.0 | (1)(2)(3)(4) | TRANE CSAA SIZE 30 |

**TYPES:**

(A) FACTORY FABRICATED, DOUBLE WALL, VARIABLE VOLUME, HORIZONTAL DRAW THROUGH WITH INTERNAL FAN ISOLATION.

(B) FACTORY FABRICATED, DOUBLE WALL, CONSTANT VOLUME, HORIZONTAL DRAW THROUGH WITH INTERNAL FAN ISOLATION.

**FILTERS: (SEE SPECS.)**

(A) 2" MERV 13 PRE–FILTERS

**ACCESSORIES:**

(1) VARIABLE SPEED DRIVE WITH INVERTER DUTY RATED MOTOR.

(2) INSULATED DOUBLE CONSTRUCTION DRAIN PANS WITH TYPE 304 STAINLESS STEEL INNER PAN.

(3) MIXING BOX WITH OPPOSED BLADE AUTOMATIC DAMPERS.

(4) MARINE LIGHTS IN ALL ACCESSIBLE SECTIONS (FACTORY MOUNTED SWITCH).

**NOTES:**

(A) SCHEDULED SUPPLY FAN PRESSURE DROPS INCLUDE THE FOLLOWING AIR PRESSURE DROP IN "WG":
COOLING COIL: 1.0"
HEATING COIL: 0.25"
FILTER: 1.00" (CHANGEOUT)

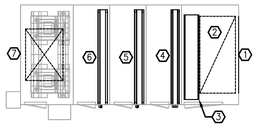
(B) MAXIMUM COOLING COIL WATER PRESSURE DROP = 15 FT.

(C) MAXIMUM HEATING COIL WATER PRESSURE DROP = 10 FT.

(D) CIRCUIT #1: 460V/3Φ/60Hz, CIRCUIT #2: 115V/1Φ/60Hz

(E) CAPACITIES BASED ON A MIXTURE OF WATER WITH 20% (BY Wt) ETHYLENE GLYCOL AS THE CHILLED AND HOT FLUID BEING UTILIZED.

**AHU CONFIGURATION:**




**KEYED NOTES:**

(1) SIDE OUTSIDE AIR INTAKE OPENING
(2) TOP RETURN INTAKE OPENING
(3) PROVIDE 2" MERV 13 PRE–FILTERS
(4) HOT WATER PREHEAT COIL
(5) CHILLED WATER COOLING COIL
(6) HOT WATER REHEAT COIL
(7) SUPPLY FAN WITH TOP DISCHARGE

## AIR TERMINAL BOXES (AHU-1) BUILDING 700

| MARK | TYPE | ROUND INLET (IN.) | CFM | | | COIL CAPACITY | | PIPE RUNOUT | HOT WATER CONTROL VALVE | V/Φ/Hz |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | MAX. | MIN. | HTG. | MBH | GPM | | | |
| VAV 1–1 | VVR | 10 | 1000 | 300 | 500 | 18.20 | 1.3 | 3/4" | 3–WAY | 120/1/60 |
| VAV 1–2 | VVR | 6 | 350 | 105 | 175 | 7.45 | 0.9 | 3/4" | 3–WAY | 120/1/60 |
| VAV 1–3 | VVR | 10 | 1100 | 330 | 550 | 21.70 | 1.5 | 3/4" | 3–WAY | 120/1/60 |
| VAV 1–4 | VVR | 10 | 1000 | 300 | 500 | 20.60 | 1.4 | 3/4" | 3–WAY | 120/1/60 |
| VAV 1–5 | VVR | 8 | 650 | 195 | 325 | 14.95 | 1.0 | 3/4" | 3–WAY | 120/1/60 |
| VAV 1–6 | VVR | 8 | 650 | 195 | 325 | 15.55 | 1.1 | 3/4" | 3–WAY | 120/1/60 |
| VAV 1–7 | VVR | 8 | 650 | 195 | 325 | 14.35 | 1.0 | 3/4" | 3–WAY | 120/1/60 |
| VAV 1–8 | VVR | 8 | 600 | 180 | 300 | 15.00 | 1.0 | 3/4" | 3–WAY | 120/1/60 |
| VAV 1–9 | VVR | 10 | 1000 | 300 | 500 | 23.00 | 1.6 | 3/4" | 3–WAY | 120/1/60 |
| VAV 1–10 | VVR | 12 | 1450 | 435 | 725 | 29.15 | 2.0 | 3/4" | 3–WAY | 120/1/60 |
| VAV 1–11 | VVR | 12 | 1600 | 480 | 800 | 30.80 | 2.1 | 3/4" | 3–WAY | 120/1/60 |
| VAV 1–12 | VVR | 12 | 1350 | 405 | 675 | 28.02 | 1.9 | 3/4" | 3–WAY | 120/1/60 |
| VAV 1–13 | VVR | 12 | 1350 | 405 | 675 | 28.05 | 1.9 | 3/4" | 3–WAY | 120/1/60 |
| VAV 1–14 | VVR | 8 | 750 | 225 | 375 | 17.85 | 1.2 | 3/4" | 3–WAY | 120/1/60 |

**TYPES:**

VV = VARIABLE VOLUME – NO COIL
VVR = VARIABLE VOLUME REHEAT – TURN DOWN TO MINIMUM
CVR = CONSTANT VOLUME REHEAT – TURN DOWN TO MINIMUM

**NOTES:**

(A) ENTERING AIR TEMPERATURE = 55°F.
(B) HEATING CAPACITY BASED ON ENTERING WATER = 180°F.
(C) MAXIMUM WATER PRESSURE DROP = 5 FT.
(D) ALL BOXES STANDARD LINING UNLESS OTHERWISE NOTED.
(E) HOT WATER 3–WAY CONTROL VALVE, $C_V \geq 0.5$ GPM.

## AIR-COOLED CHILLER - BUILDING 700

| MARK | MIN. FULL LOAD EER | MIN. EER IPLV | REFRIGERANT | NOMINAL TONS | GPM | CHILLED WATER ENT °F | CHILLED WATER LVG °F | MAX. △P (FEET) | FOULING FACTOR | AMBIENT AIR (°F) | ELECTRICAL INFORMATION – SINGLE POINT CONNECTION | | | | OPERATING WEIGHT | BASIS OF DESIGN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | V/Φ/Hz | MCA | MOP | MIN. FAULT RATING | | |
| CH–1 | 10.84 | 17.34 | R–454B | 52 | 103 | 56.0 | 44.0 | 15 | 0.00010 | 95 | 208/3/60 | 264 | 350 | 65,000 A | 6,500 | TRANE CGAM–52 |

**CHILLER NOTES/ACCESSORIES:**

1. U.L. LISTED, ASHRAE 90.1 COMPLIANT, BAS INTERFACE, DUAL INDEPENDENT REFRIGERANT CIRCUITS, SINGLE POINT POWER CONNECTION, CONDENSER COIL PANELS, GRILLES AND END SCREENS, STARTER, FLOW SWITCH, FREEZE PROTECTION PACKAGE, SUCTION LINE INSULATION, SUCTION SERVICE VALVES, NON–FUSED DISCONNECT, SERVICE OPTION, AL FIN/CU TUBE E COAT, ULTRA LOW SOUND OPTION, MINIMUM LOAD CONTROL, HIGH EFFICIENCY VARIABLE SPEED CONDENSER FANS, 115V CONVENIENCE OUTLET.
2. FULL BUILDING AUTOMATION SYSTEM INTERFACE. COORDINATE REQUIRED INTERFACE PROTOCOL WITH CONTROLS VENDOR PRIOR TO ORDER. PROVIDE HARD WIRED ALARM POINTS.
3. PROVIDE 5 YEAR PARTS, LABOR AND REFRIGERANT WARRANTY ON COMPLETE UNIT.
4. PROVIDE LOW AMBIENT ACCESSORY KIT.
5. CAPACITIES BASED ON A MIXTURE OF WATER WITH 20% (BY Wt) ETHYLENE GLYCOL AS THE CHILLED FLUID BEING UTILIZED.
6. CHILLER INCLUDE DUAL PUMP HIGH PRESSURE WITH DUAL HIGH HEAD VFD. MOTOR @ 5 HP, 6.10 AMPS, AVAILABLE HEAD = 64.3 FEET.
7. CHILLER INCLUDE EXPANSION TANK VOLUME AT 5 GALLONS AND BUFFER STORAGE TANK AT 140 GALLONS.
8. CHILLERS TO HAVE TOTAL DIRECT FREE–COOLING.

## GAS-FIRED UNIT HEATERS (UH-1) BUILDING 300

| MARK | NUMBER OF UNITS | MANUFACTURER | MODEL | UNIT SIZE | VENT SIZE (IN) | ELECTRICAL | | | HEATER | | | APPROX. WEIGHT (LBS) | ACCESSORIES |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | V/Φ/Hz | FLA | MOCP | FUEL | INPUT (BTU/HR) | OUTPUT (BTU/HR) | | |
| UH–1 | 6 | REZNOR | UDXC | 30 | 4 | 115/1/20 | 1.9 | 15 | NATURAL GAS | 30,000 | 24,600 | 70 | 1 |
| | | | | | | | | | | | | | |

ACCESSORIES:
1. VENT PIPE KIT, HANGER KIT, & THERMOSTAT.

## SPLIT SYSTEM - AIR HANDLING UNITS (GAS FURNACES W/ DX COIL) BLDG 300

| MARK | SERVES | UNIT CONFIGURATION | SUPPLY FAN | | | GROSS COOLING CAPACITY | | | | GAS HEATING | | OSA CFM | SINGLE POINT POWER | | | NOMINAL TONS | BASIS OF DESIGN TRANE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | CFM | "W.G. E.S.P | HP | TOTAL (MBH) | SENSIBLE (MBH) | AIR ENT. °FDB | AIR ENT. °FWB | INPUT (MBH) | OUPUT (MBH) | | ELECT. (V/Φ/Hz) | MCA (AMPS) | MOCP (AMPS) | | |
| AHU–1 | BLDG 300 CLASSROOM | VERTICAL | 1600 | 0.5" | 0.75 | 46.0 | 34.0 | 78 | 65 | 80 | 77.2 | 250 | 115/1/60 | 10.3 | 15 | 4.0 | S9X1B08 & 5TXCB007 |

**AIR HANDLING UNIT GENERAL NOTES**

1. COOLING CAPACITY BASED ON 95°F AMBIENT.
2. HEATING CAPACITY BASED ON 47°F AMBIENT.
3. CONTRACTOR TO COORDINATE/VERIFY ELECTRICAL REQUIREMENTS WITH EQUIPMENT MANUFACTURER AND FIELD CONDITIONS PRIOR TO ORDERING.
4. UL LISTED AND AHRI STANDARD 430 CERTIFIED.
5. MAX FACE VELOCITY = 500 FPM.
6. PROVIDE UL LISTED SMOKE DETECTORS IN SUPPLY & RETURN FOR ALL UNITS OVER 2,000 CFM

**ACCESSORIES – ALL UNITS**

1. PHASE PROTECTION
2. MICROPROCESSOR CONTROLS
3. INTERNALLY ISOLATED FAN
4. 2" THICK THROWAWAY FILTERS, 30% EFFICIENT
5. AUXILIARY DRAIN PAN WITH FLOAT SWITCH.
6. DUAL INDEPENDENT REFRIGERANT CIRCUITS (ALL UNITS 6 TONS & LARGER)
7. FURNACE CONDENSATE NEUTRALIZER.
8. VENT FURNACE THROUGH ROOF PER MANUFACTURERS INSTALLATION INSTRUCTIONS.

## SPLIT SYSTEM - OUTDOOR UNITS BLDG 300

| MARK | SERVES | TYPE | ELECT. (V/Φ/Hz) | NOMINAL TONS | MCA (AMPS) | MOCP (AMPS) | MIN EER/SEER | BASIS OF DESIGN TRANE |
|---|---|---|---|---|---|---|---|---|
| CU–1 | AHU–1 | CONDENSING UNIT | 480/3/60 | 4.0 | 18 | 30 | 13 EER | 4TTA4048A |

**OUTDOOR UNIT GENERAL NOTES**

1. MINIMUM UNIT ONLY EER AT ARI CONDITIONS.
2. CONTRACTOR TO COORDINATE/VERIFY ELECTRICAL REQUIREMENTS WITH EQUIPMENT MANUFACTURER AND FIELD CONDITIONS PRIOR TO ORDERING.
3. REFRIGERANT: R–454B
3. UL LISTED AND AHRI STANDARD 210/240 CERTIFIED.

**ACCESSORIES – ALL UNITS**

1. PHASE PROTECTION
2. MICROPROCESSOR CONTROLS
3. ISOLATION VALVES
4. LIQUID LINE REFRIGERANT DRIER
5. ANTI–SHORT CYCLE TIMER
6. CRANKCASE HEATERS
7. HIGH/LOW PRESSURE CONTROL
8. LOW AMBIENT COOLING TO 0°F
9. FROSTSTAT
10. THERMAL EXPANSION VALVE
11. HAIL/VANDAL GUARDS
12. VIBRATION ISOLATORS
13. SIGHT GLASS WITH MOISTURE INDICATOR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GMC ABHM250047

ALABAMA No. 14178 PROFESSIONAL ENGINEER JAMES S. DAVIS, JR.
05/27/2026
225072

HVAC SCHEDULES

M0.02

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## COMcheck Software Version COMcheckWeb
# Mechanical Compliance Certificate

**Project Information**

| | |
|---|---|
| Energy Code: | 2015 IECC |
| Project Title: | Reid State CC |
| Location: | Evergreen (Conecuh), Alabama |
| Climate Zone: | 3a |
| Project Type: | New Construction |

Construction Site:
100 AL-83
Evergreen, Alabama 36401

Owner/Agent:

Designer/Contractor:

**Additional Efficiency Package(s)**
Credits: 1.0 Required 0.0 Proposed

**Mechanical Systems List**

| Quantity | System Type & Description |
|---|---|
| 1 | AHU-1 BLDG 700 (Multiple-Zone):<br>Heating: 1 each - Hydronic or Steam Coil, Hot Water, Capacity = 804210 kBtu/h<br>No minimum efficiency requirement applies<br>Cooling: 1 each - Passive Chilled Water Unit, Capacity = 529570 kBtu/h, Air-Cooled Condenser, Air Economizer<br>No minimum efficiency requirement applies<br>Fan System: AHU-1 BLDG 700 -- Compliance (Motor nameplate HP and fan efficiency method) : Passes<br><br>Fans:<br>AHU-1 BLDG 700 FAN 2 Supply, Multi-Zone VAV, 6750 CFM, 7.5 motor nameplate hp, 67.0 fan efficiency grade, 91.0 total fan efficiency, 91.0 design fan efficiency<br>AHU-1 BLDG700 FAN 1 Supply, Multi-Zone VAV, 6750 CFM, 7.5 motor nameplate hp, 67.0 fan efficiency grade, 91.0 total fan efficiency, 91.0 design fan efficiency |
| 1 | AHU-1 BLDG 300 (Single Zone):<br>Heating: 1 each - Duct Furnace, Gas, Capacity = 8000 kBtu/h<br>Proposed Efficiency = 97.00% Ec, Required Efficiency: 80.00 % Ec<br>Cooling: 1 each - Single Package DX Unit, Capacity = 46000 kBtu/h, Air-Cooled Condenser, Air Economizer<br>Proposed Efficiency = 10.00 EER, Required Efficiency = 9.50 EER<br>Proposed Part Load Efficiency = 13.00 IEER, Required Part Load Efficiency = 11.00 IEER<br>Fan System: AHU-1 BLDG 300 -- Compliance (Motor nameplate HP and fan efficiency method) : Passes<br><br>Fans:<br>FAN 4 Supply, Constant Volume, 1600 CFM, 0.8 motor nameplate hp, 67.0 fan efficiency grade, 90.0 total fan efficiency, 90.0 design fan efficiency |
| 3 | AC-A / CU-A (Single Zone):<br>Cooling: 1 each - VRF Zone Fan Unit, Capacity = 24000 kBtu/h, Air Economizer<br>No minimum efficiency requirement applies<br>Fan System: VRF -- Compliance (Motor nameplate HP and fan efficiency method) : Passes<br><br>Fans:<br>VRF Supply, Constant Volume, 775 CFM, 0.1 motor nameplate hp, 67.0 fan efficiency grade, 100.0 total fan efficiency, 100.0 design fan efficiency |
| 6 | UH-1 (Single Zone w/ PerimeterSystem):<br>Heating: 1 each - Radiant Heater, Gas, Capacity = 30000 kBtu/h<br>No minimum efficiency requirement applies<br>Fan System: UH -- Compliance (Brake HP and fan efficiency method) : Passes<br><br>Fans:<br>UH Supply, Constant Volume, 456 CFM, 0.3 motor nameplate hp, 0.3 design brake hp (0.3 max. BHP), 83.0 fan efficiency grade, 100.0 total fan efficiency, 100.0 design fan efficiency |



| Quantity | System Type & Description |
|---|---|
| 1 | B-1 BLDG 700:<br>Heating: Hot Water Boiler, Capacity 15000 kBtu/h, Gas<br>Proposed Efficiency: 97.00 % Ec, Required Efficiency: 82.00 % Ec |
| 1 | CH-1 BLDG 700:<br>Cooling: Water Chiller, Capacity 52 tons, Condenser Air-Cooled, Rotary Screw or Scroll Chiller<br>Proposed Efficiency: 10.80 EER-FL, Required Efficiency: 10.10 EER-FL<br>Proposed Part Load Efficiency: 17.34 EER-IPLV, Required Part Load Efficiency: 13.70 EER-IPLV |

**Mechanical Compliance Statement**

*Compliance Statement:* The proposed mechanical design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed mechanical systems have been designed to meet the 2015 IECC requirements in COMcheck Version COMcheckWeb and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Joseph S. Davis - President — Name - Title
Signature
04-30-26 — Date



## OUTSIDE AIR CALCULATIONS AHU-01 BUILDING 300

CALCULATIONS PER 2021 IMC, TABLE 403.3.1
BUILDING 300

| ROOM NAME (NUMBER) | OCCUPANCY CLASSIFICATION | NO. PEOPLE | PEOPLE OSA RATE | PEOPLE OSA REQ'D | AREA (FT2) | AREA OSA RATE (Ra) | AREA OSA REQ'D | OSA SUBTOTAL |
|---|---|---|---|---|---|---|---|---|
| 301 OFFICE | Office | 1 | 5 | 5 | 97 | 0.06 | 5.82 | 10.82 |
| 302 OFFICE | Office | 1 | 5 | 5 | 136 | 0.06 | 8.16 | 13.16 |
| 303 JAN | Toilets | 0 | 0 | 0 | 33 | 0 | 0 | 0 |
| 304 MENS | Toilets | 0 | 0 | 0 | 188 | 0 | 0 | 0 |
| 305 WOMENS | Toilets | 0 | 0 | 0 | 229 | 0 | 0 | 0 |
| 306 OFFICE | Office | 1 | 5 | 5 | 113 | 0.06 | 6.78 | 11.78 |
| 307 CLASSROOM | Classroom | 15 | 10 | 150 | 89 | 0.12 | 10.68 | 160.68 |
| R245 ENTRY | Lobby | 1 | 5 | 5 | 624 | 0.06 | 37.44 | 42.44 |
| R246 CORRIDOR | Corridor | 0 | 5 | 0 | 124 | 0.06 | 7.44 | 7.44 |
| | | | | | | Total OSA CFM Required | | 246.32 |
| | | | | | | Total OSA CFM Provided | | 250 |

## OUTSIDE AIR CALCULATIONS AHU-01 BUILDING 700

CALCULATIONS PER 2021 IMC, TABLE 403.3.1
BUILDING 700

| ROOM NAME (NUMBER) | OCCUPANCY CLASSIFICATION | NO. PEOPLE | PEOPLE OSA RATE | PEOPLE OSA REQ'D | AREA (FT2) | AREA OSA RATE (Ra) | AREA OSA REQ'D | OSA SUBTOTAL |
|---|---|---|---|---|---|---|---|---|
| 701 ENTRY | Lobby | 1 | 5 | 5 | 895 | 0.06 | 53.7 | 58.7 |
| 702 LAB | Shop | 26 | 10 | 260 | 4697 | 0.18 | 845.46 | 1105.46 |
| 703 OFFICE | Office | 1 | 5 | 5 | 109 | 0.06 | 6.54 | 11.54 |
| 704 OFFICE | Office | 1 | 5 | 5 | 108 | 0.06 | 6.48 | 11.48 |
| 705 MECH | Storage | 0 | 5 | 0 | 109 | 0.12 | 13.08 | 13.08 |
| 706 STORAGE | Storage | 0 | 5 | 0 | 84 | 0.12 | 10.08 | 10.08 |
| 708 CLASSROOM | Classroom | 21 | 10 | 210 | 629 | 0.12 | 75.48 | 285.48 |
| 709 MEN | Toilets | 0 | 0 | 0 | 225 | 0 | 0 | 0 |
| 710 WOMENS | Toilets | 0 | 0 | 0 | 222 | 0 | 0 | 0 |
| 711 JAN. | Toilets | 0 | 0 | 0 | 47 | 0 | 0 | 0 |
| 713 LAB ADDITION | Shop | 14 | 10 | 140 | 2423 | 0.18 | 436.14 | 576.14 |
| 718 CLASSROOM | Classroom | 21 | 10 | 210 | 660 | 0.12 | 79.2 | 289.2 |
| 719 STORAGE | Storage | 0 | 5 | 0 | 312 | 0.12 | 37.44 | 37.44 |
| 721 OFFICE | Office | 1 | 5 | 5 | 132 | 0.06 | 7.92 | 12.92 |
| 722 OFFICE | Office | 1 | 5 | 5 | 131 | 0.06 | 7.86 | 12.86 |
| 723 OFFICE | Office | 1 | 5 | 5 | 163 | 0.06 | 9.78 | 14.78 |
| | | | | | | Total OSA CFM Required | | 2439.16 |
| | | | | | | Total OSA CFM Provided | | 2440 |

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**HVAC SCHEDULES**

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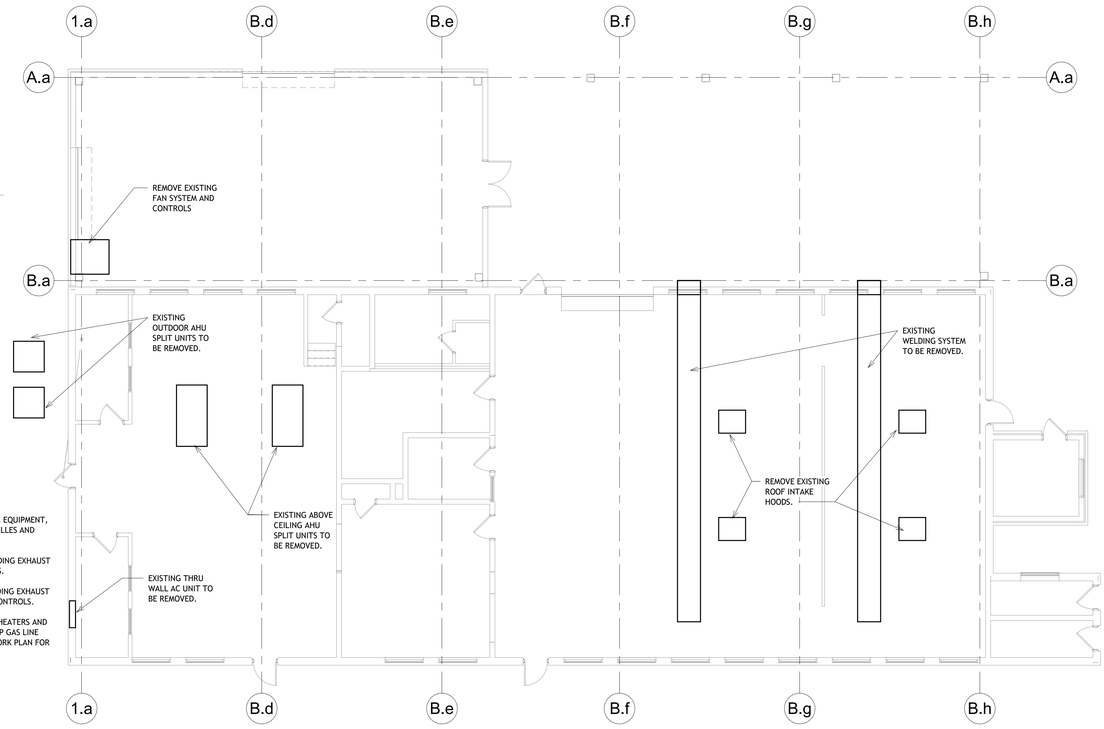
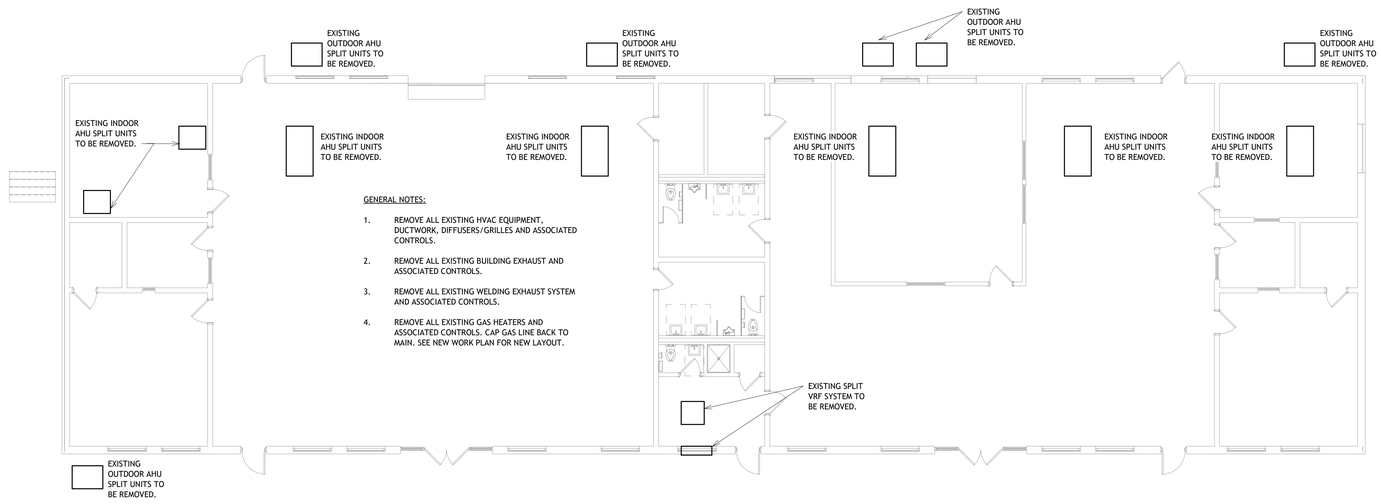



GENERAL NOTES:

1. REMOVE ALL EXISTING HVAC EQUIPMENT, DUCTWORK, DIFFUSERS/GRILLES AND ASSOCIATED CONTROLS.
2. REMOVE ALL EXISTING BUILDING EXHAUST AND ASSOCIATED CONTROLS.
3. REMOVE ALL EXISTING WELDING EXHAUST SYSTEM AND ASSOCIATED CONTROLS.
4. REMOVE ALL EXISTING GAS HEATERS AND ASSOCIATED CONTROLS. CAP GAS LINE BACK TO MAIN. SEE NEW WORK PLAN FOR NEW LAYOUT.

## 1 BUILDING 300 DEMOLITION HVAC Plan
SCALE: 1/8" = 1'-0"




GENERAL NOTES:

1. REMOVE ALL EXISTING HVAC EQUIPMENT, DUCTWORK, DIFFUSERS/GRILLES AND ASSOCIATED CONTROLS.
2. REMOVE ALL EXISTING BUILDING EXHAUST AND ASSOCIATED CONTROLS.
3. REMOVE ALL EXISTING WELDING EXHAUST SYSTEM AND ASSOCIATED CONTROLS.
4. REMOVE ALL EXISTING GAS HEATERS AND ASSOCIATED CONTROLS. CAP GAS LINE BACK TO MAIN. SEE NEW WORK PLAN FOR NEW LAYOUT.

## 2 BUILDNG 700 DEMOLITION HVAC Plan
SCALE: 1/8" = 1'-0"

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ALABAMA
No. 14178
PROFESSIONAL
ENGINEER
JAMES S. DAVIS, JR.

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**DEMOLITION NEW WORK FLOOR PLAN**

# M1.01

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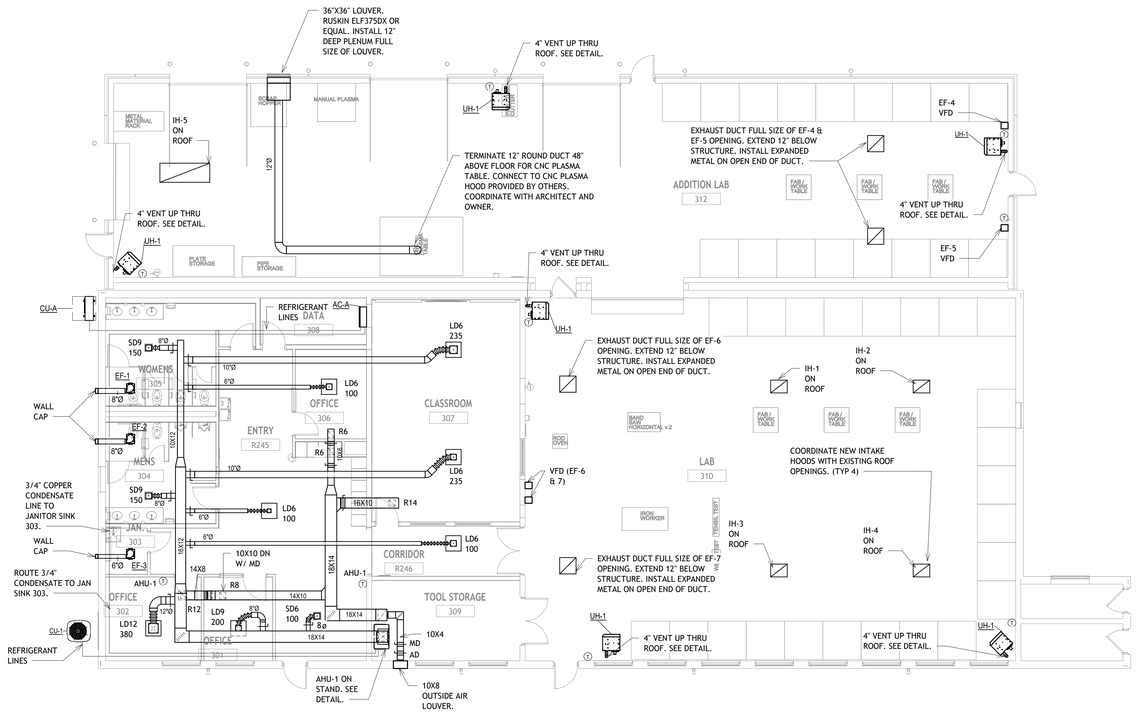
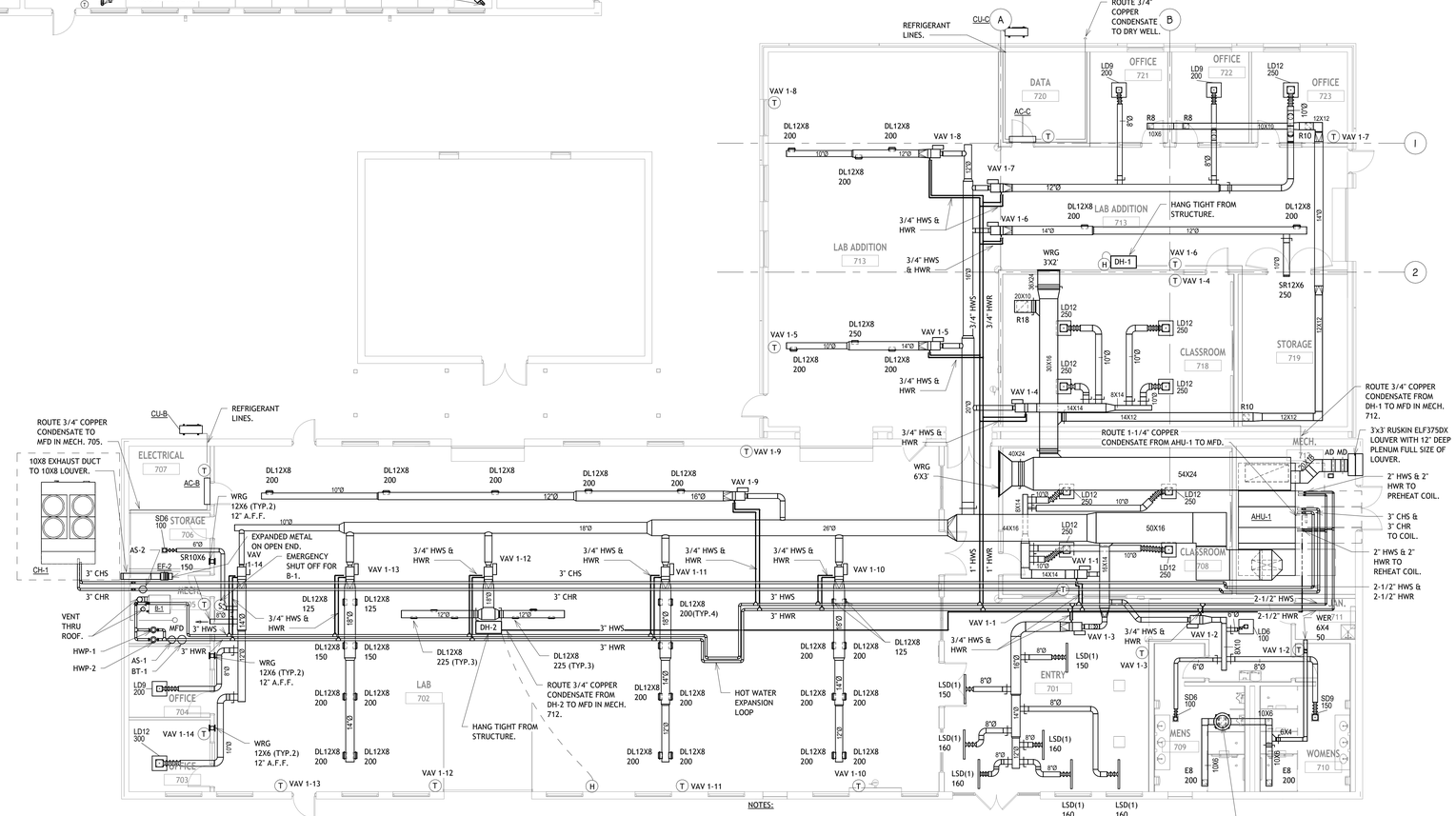



## 1 BUILDING 300 HVAC Floor Plan
SCALE: 1/8" = 1'-0"




## 2 BUILDNG 700 HVAC Floor Plan
SCALE: 1/8" = 1'-0"

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**HVAC NEW WORK FLOOR PLAN**

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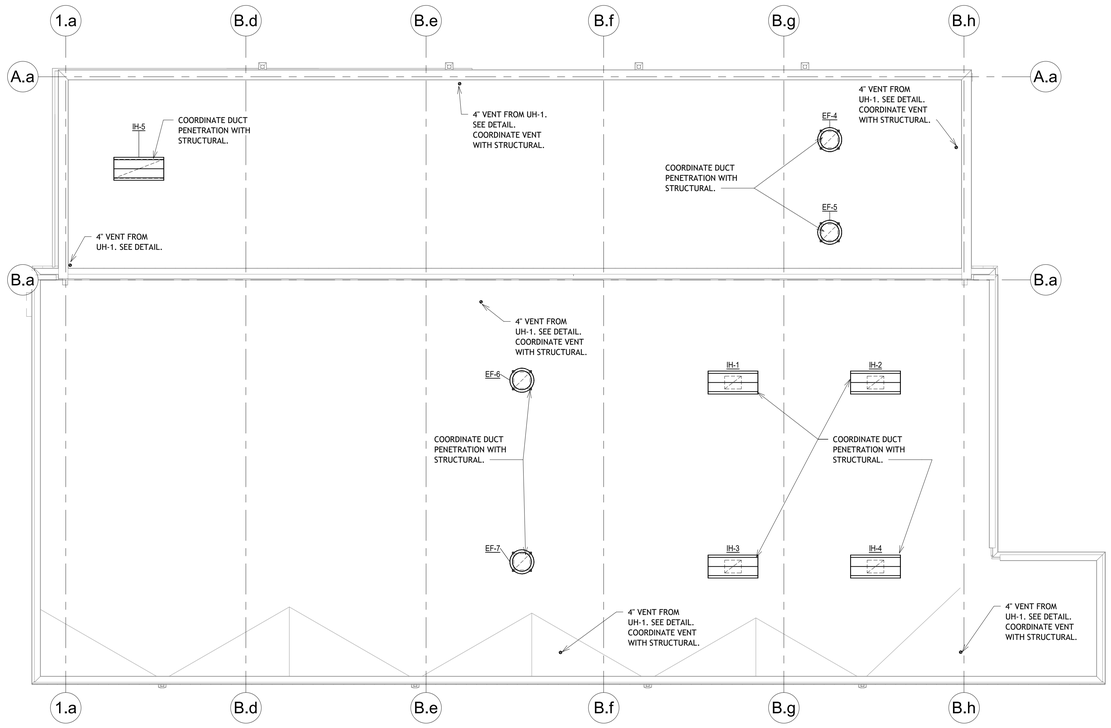
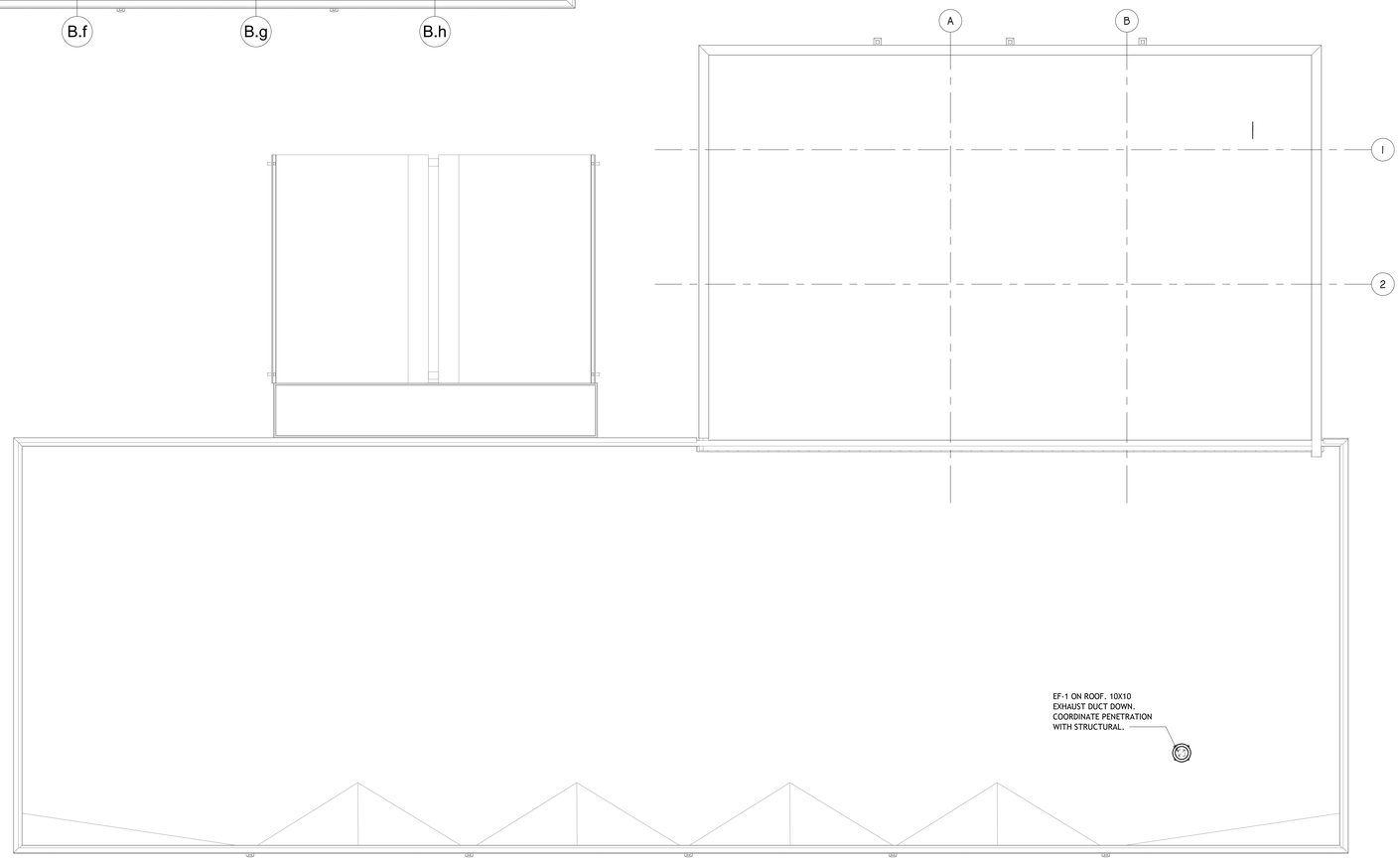



## 1 BUILDING 300 HVAC Roof Plan
SCALE: 1/8" = 1'-0"




## 2 BUILDNG 700 HVAC Roof Plan
SCALE: 1/8" = 1'-0"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**HVAC NEW WORK ROOF PLAN**

# M2.02

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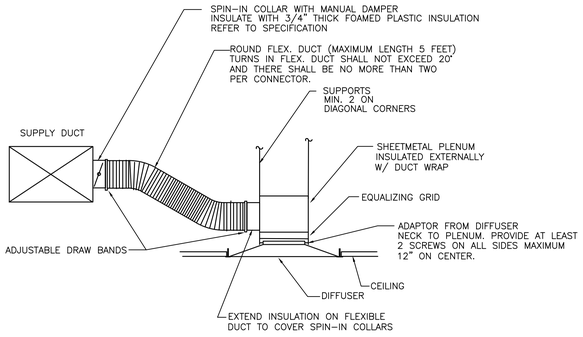


## CEILING DIFFUSER DETAIL
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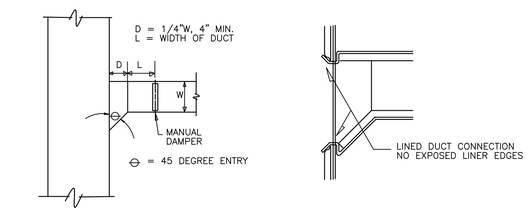


## DUCT BRANCH CONNECTION
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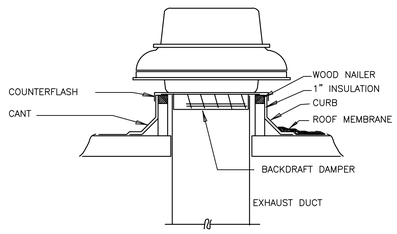
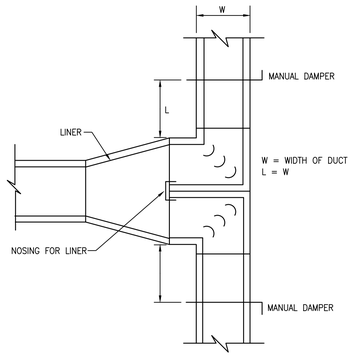



## CENTRIFUGAL ROOF EXHAUSTER MOUNTING DETAIL
NO SCALE




## DUCTWORK SPLITTER DETAIL
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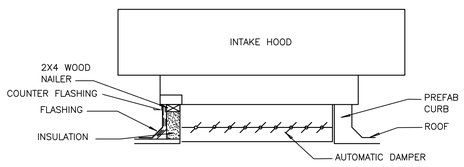
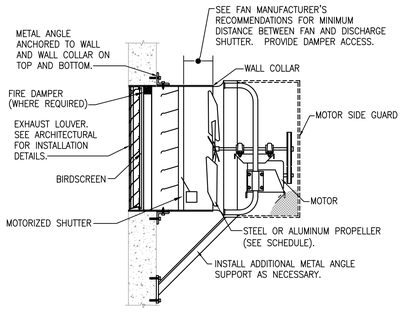
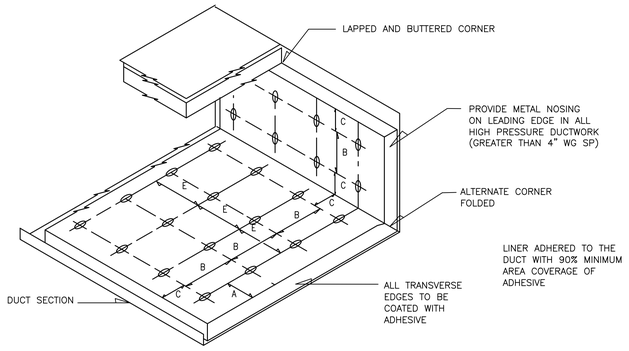



## INTAKE HOOD MOUNTING DETAIL
NO SCALE



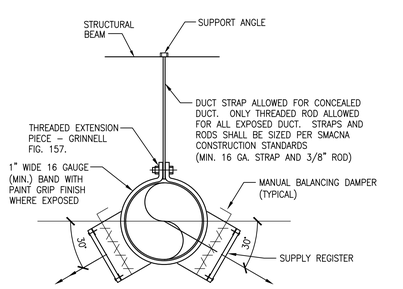

## WALL PROPELLER FAN DETAIL
NO SCALE




MAXIMUM SPACING FOR FASTENERS.
ACTUAL INTERVALS ARE APPROXIMATE.

| VELOCITY | DIMENSIONS | | | |
|---|---|---|---|---|
| | A | B | C | E |
| 0-2500 FPM | 3" | 12" | 4" | 18" |
| 2501-6000 FPM | 3" | 6" | 4" | 16" |

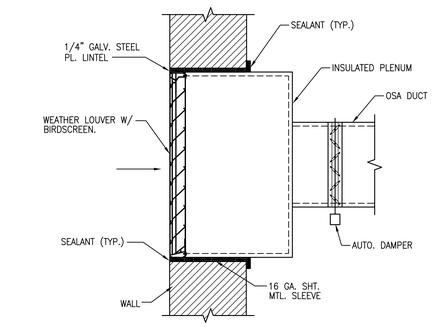
## DUCT LINER INSTALLATION DETAIL
NOT TO SCALE




## EXPOSED ROUND SPIRAL DUCTWORK AND DIFFUSER DETAILS
**NOT TO SCALE**




## GOOSENECK VENT DETAIL
NO SCALE




## OSA INTAKE LOUVER DETAIL
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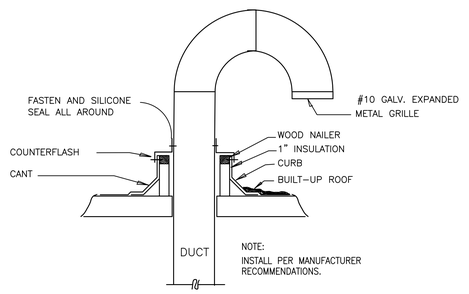


## GOOSENECK VENT FOR FURNACE DETAIL
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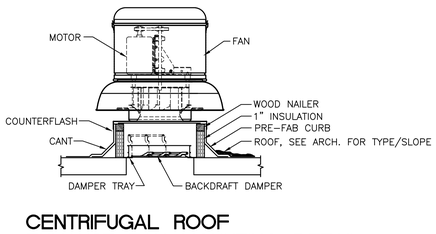


## CENTRIFUGAL ROOF EXHAUST FAN MOUNTING DETAIL
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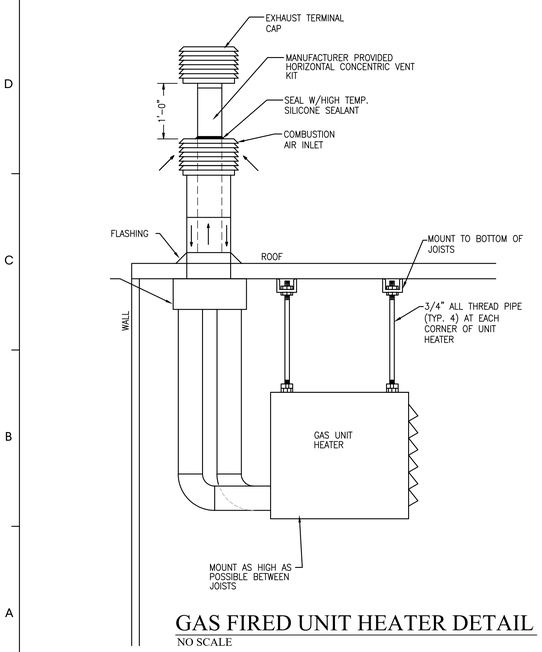


## GAS FIRED UNIT HEATER DETAIL
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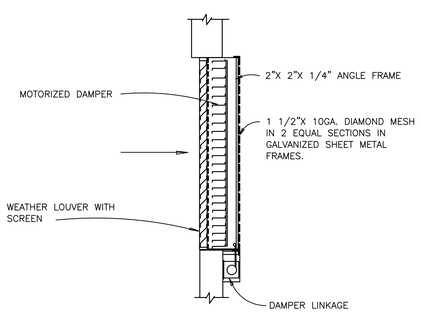


## LOUVER & AUTOMATIC DAMPER DETAIL
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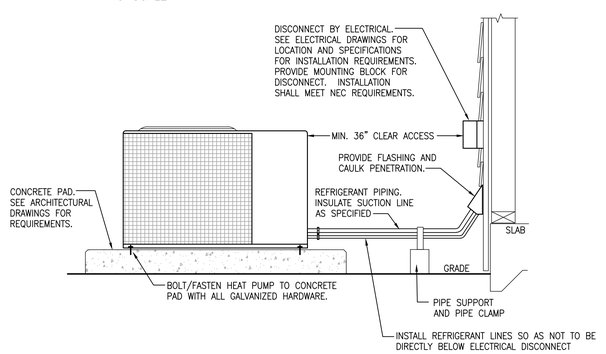


## HEAT PUMP MOUNTING DETAIL
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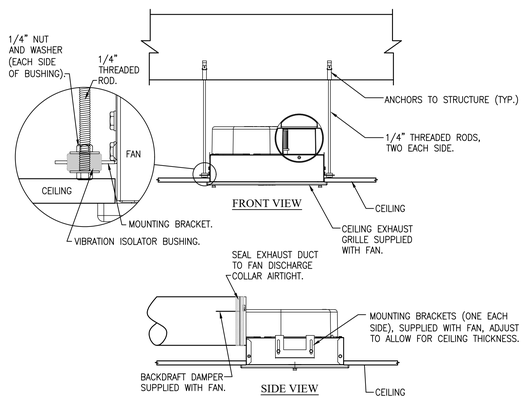


## CEILING EXHAUST FAN DETAIL
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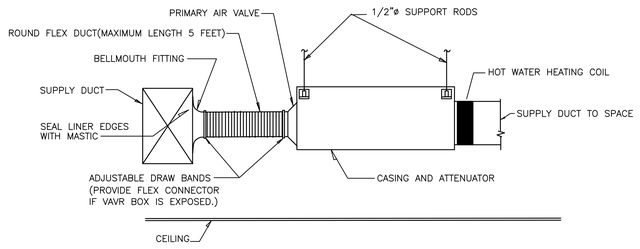
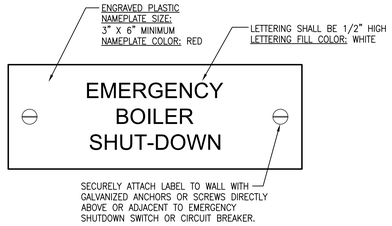


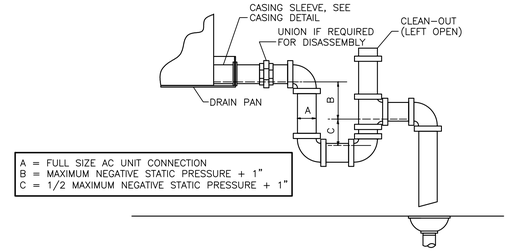

## VARIABLE VOLUME REHEAT BOX DETAILS

NO SCALE



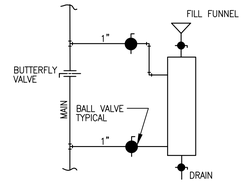

## BOILER EMERGENCY SHUTDOWN LABEL

**NOT TO SCALE**




## AC UNIT DRAIN TRAP

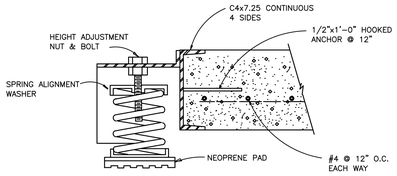
(NEGATIVE PRESSURE)
NO SCALE




NOTE: FEEDER MAY BE CONNECTED BETWEEN PUMP SUCTION & DISCHARGE LINES.

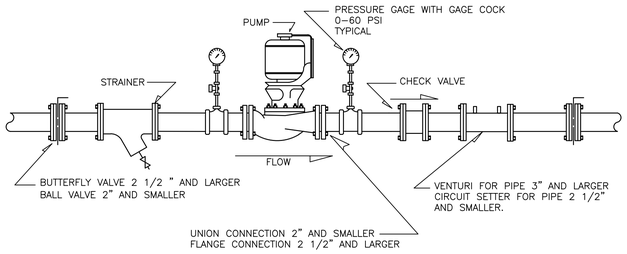
## ONE-SHOT CHEMICAL FEEDER DETAIL

NO SCALE



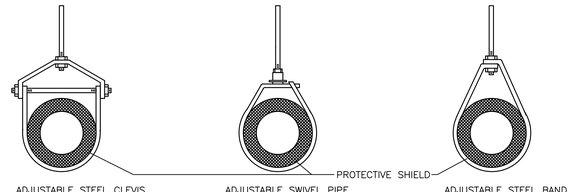

## INERTIA BASE

NO SCALE




## HWP-1 & HWP-2 IN-LINE PUMP DETAIL

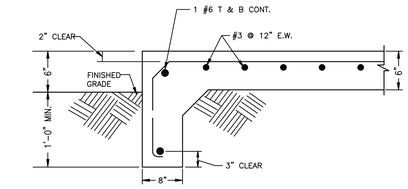
NO SCALE




## HANGERS FOR WATER LINES

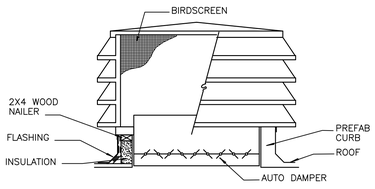
| PIPE SIZE | 1/2" | 3/4" | 1" | 1 1/4" | 1 1/2" | 2" | 2 1/2" | 3" | 4" | 5" | 6" | 8" | 10" | 12" | 14" | 16" | 18" | 20" | 24" |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ROD DIAMETER | 3/8" | 3/8" | 3/8" | 3/8" | 3/8" | 3/8" | 1/2" | 1/2" | 5/8" | 5/8" | 3/4" | 7/8" | 7/8" | 7/8" | 1" | 1" | 1 1/8" | 1 1/4" | 1 1/4" |
| SPACING | 6' | 8' | 8' | 8' | 10' | 10' | 10' | 12" | 14' | 14' | 14" | 16' | 16' | 16' | 16' | 16' | 16' | 16' | 16' |

NOTE: LOCATE ADDITIONAL HANGERS AT VALVES AND AT CHANGES IN DIRECTION.



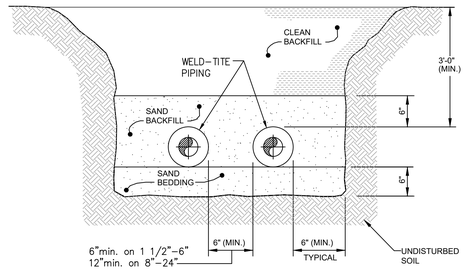

## CONCRETE PAD DETAIL

NO SCALE



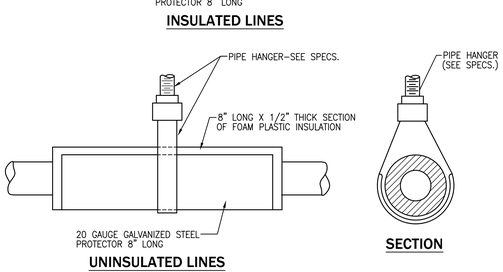

## RELIEF HOOD MOUNTING DETAIL

NOT TO SCALE




## BELOW GRADE PRE-INSULATED CHILLED WATER PIPING TRENCH

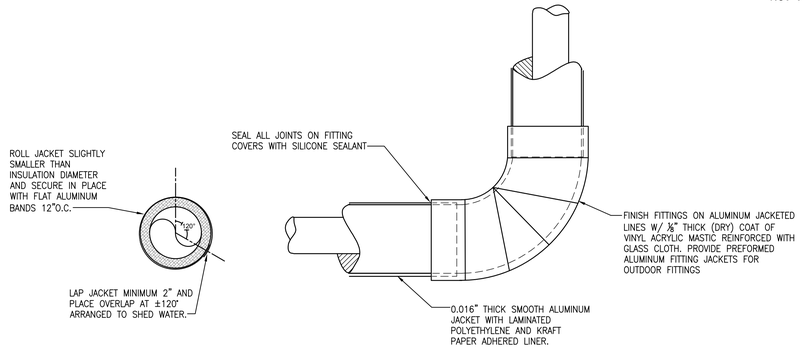
**NOT TO SCALE**




## REFRIGERANT LINE HANGERS

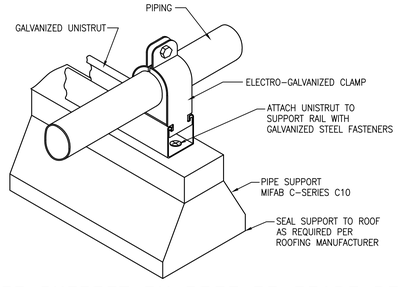
**NOT TO SCALE**

NOTE: LOCATE ADDITIONAL HANGERS AT VALVES AND AT CHANGES IN DIRECTION.



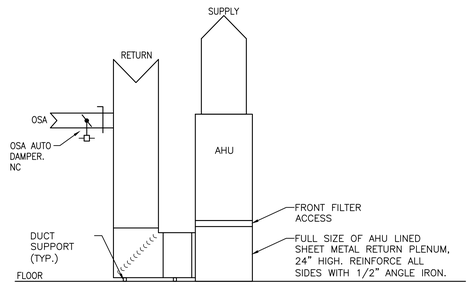

## REFRIGERANT PIPING ALUMINUM JACKET DETAIL

**NOT TO SCALE**




## PIPE SUPPORT ON ROOF OR GRADE DETAIL

NOT TO SCALE




## VERTICAL AIR HANDLER UNIT DETAIL

**NOT TO SCALE**

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ISSUE DATE
IFB Set 05/27/2026

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100 AL-83, Evergreen, AL 36401

ACCS
GMC ABHM250047

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HVAC DETAILS

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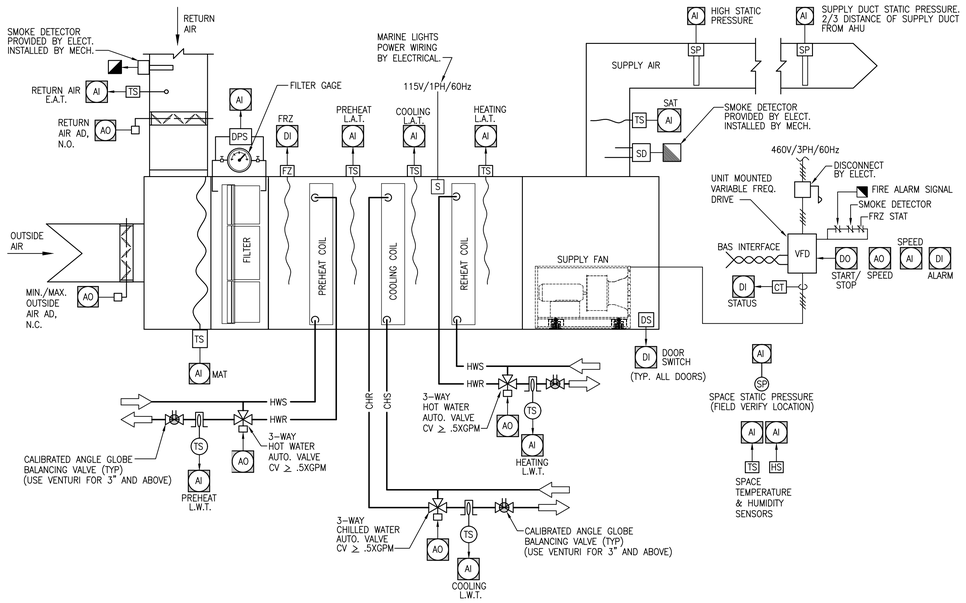



# AHU-1 CONTROLS (WITH REHEAT)

NO SCALE

AHU-4 SEQUENCE OF CONTROL

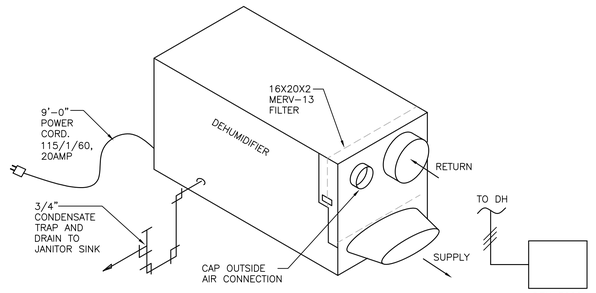
THE START SEQUENCE FOR THE SUPPLY FAN SHALL BE INITIATED BY THE HOA SWITCH ON THE VARIABLE FREQUENCY DRIVE. ALL SAFETIES SHALL CONTROL IN BOTH THE "HAND" AND "AUTO" POSITIONS. WHEN THE SUPPLY FAN VFD SWITCH IS IN THE "AUTO" POSITION THE FAN SHALL BE STARTED BY THE BAS SUBJECT TO THE BUILDING FIRE ALARM SYSTEM, SUPPLY AND RETURN DUCT SMOKE DETECTORS, HIGH DUCT STATIC PRESSURE CUTOUT, LOW TEMPERATURE FREEZESTAT (35°F) AND FAN SECTION DOOR SWITCHES. THE SUPPLY FAN SHALL START WITH THE VFD AT LOW SPEED. THE BAS SHALL MONITOR SUPPLY FAN STATUS THRU A CURRENT TRANSFORMER.

WHEN THE FAN IS STARTED, THE OUTSIDE AIR DAMPER SHALL OPEN AND THE BAS SHALL SLOWLY INCREASE THE SPEED OF THE SUPPLY FAN TO REACH THE SPEED REQUIRED TO DELIVER SUPPLY AIR DESIGN AIRFLOW AS DETERMINED BY THE TEST AND BALANCE CONTRACTOR. THE BAS SHALL THEN VARY SUPPLY FAN VFD TO MAINTAIN SPACE TEMPERATURE SETTING (72°F ADJ.). THE BAS SHALL MODULATE THE CHILLED WATER VALVE TO MAINTAIN A SUPPLY AIR TEMPERATURE OF 55°F (ADJ.). SUPPLY DUCT STATIC PRESSURE SHALL BE MONITORED BY BAS.

IF THE SUPPLY AIR TEMPERATURE DROPS BELOW THE COOLING SETPOINT WITH THE SUPPLY FAN RUNNING AT MINIMUM SPEED (SEE OUTSIDE AIR SCHEDULE), THE CHILLED WATER VALVE SHALL CLOSE. ON A FURTHER DROP OF SUPPLY AIR TEMPERATURE THE SUPPLY FAN SHALL CONTINUE TO RUN AT MINIMUM SPEED, THE PREHEAT COIL HOT WATER VALVE SHALL MODULATE TO MAINTAIN 60°F (ADJ.) LEAVING AIR TEMPERATURE. THE REHEAT COIL HOT WATER VALVE SHALL MODULATE TO MAINTAIN SPACE TEMPERATURE. IF SPACE TEMPERATURE CONTINUES TO DROP, THE REHEAT HOT WATER VALVE SHALL MODULATE TO MAINTAIN 140°F SUPPLY TEMPERATURE SETPOINT AND SUPPLY FAN SHALL MODULATE BETWEEN 50% ADN 75% SPEED TO MAIN SPACE TEMPERATURE SETPOINT.

THE BAS SHALL MONITOR STATIC PRESSURE DROP ACROSS THE FILTER AND ALARM THE WORK STATION WHEN THE FILTER STATIC PRESSURE DROP EXCEEDS 1.0" (ADJUSTABLE).

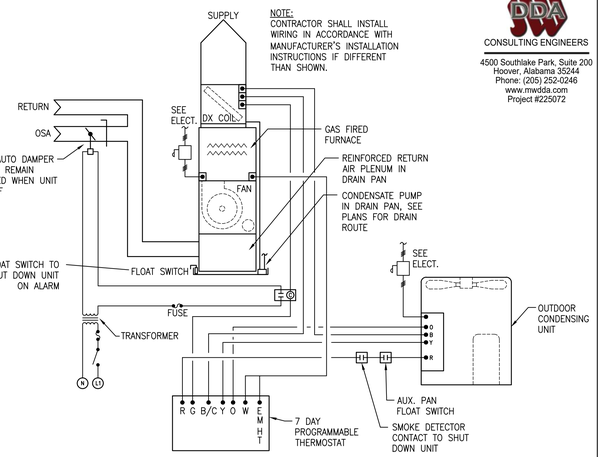
IF SMOKE IS DETECTED BY THE DUCT MOUNTED SMOKE DETECTORS OR THE BUILDING FIRE ALARM SYSTEM THE UNIT SHALL BE COMMANDED OFF.




## DEHUMIDIFIER DETAIL & CONTROL

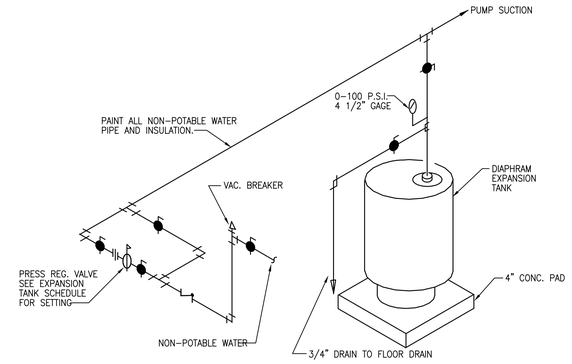
NOT TO SCALE

DEHUMIDIFIER TO BE CONTROLLED BY SPACE HUMIDITY CONTROLLER DEH 3000. SET = 50% ADJUSTIBLE TO OPERATE 24/7



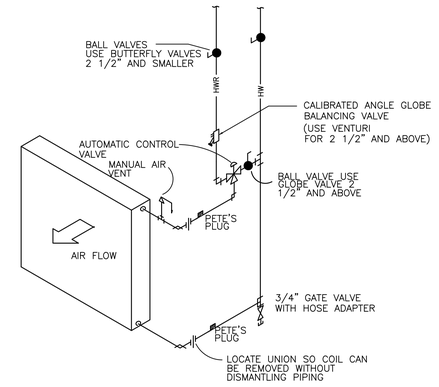

## TYPICAL AC W/ FURNACE AND DX COIL CONTROLS DIAGRAM

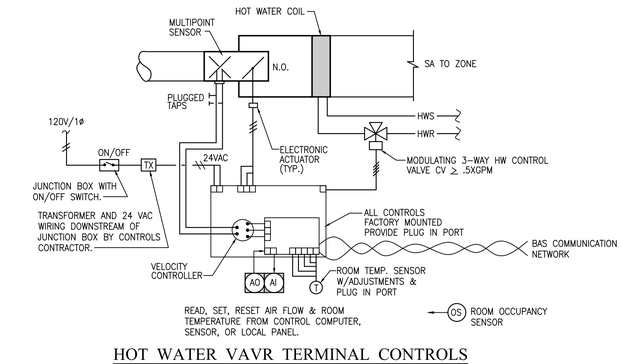
NOT TO SCALE




## EXPANSION TANK PIPING DETAIL

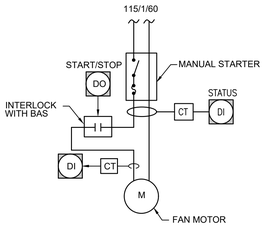
NOT TO SCALE



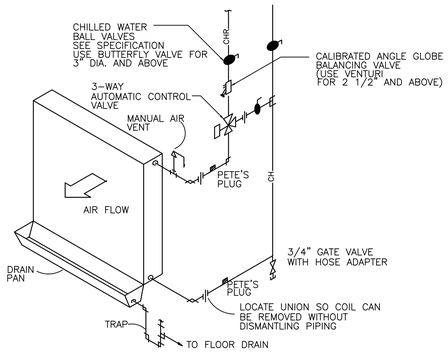

## HOT WATER VAVR TERMINAL CONTROLS

NOT TO SCALE



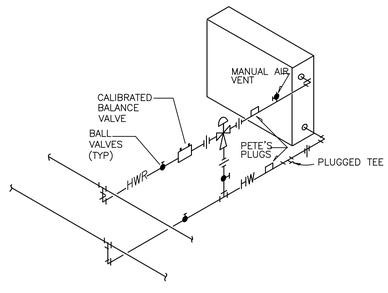

## EF-1 BUILDING 700 CONTROLS DIAGRAM

NOT TO SCALE




## AHU -1CHILLED WATER COIL DETAIL

NOT TO SCALE

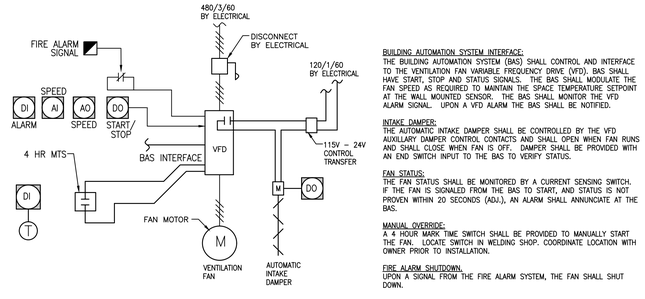



## AHU-1 HOT WATER COIL DETAIL

NOT TO SCALE

## TERMINAL BOX PIPING

NOT TO SCALE




BUILDING AUTOMATION SYSTEM INTERFACE:
THE BUILDING AUTOMATION SYSTEM (BAS) SHALL CONTROL AND INTERFACE TO THE VENTILATION FAN VARIABLE FREQUENCY DRIVE (VFD). BAS SHALL HAVE START, STOP AND STATUS SIGNALS. THE BAS SHALL MODULATE THE FAN SPEED AS REQUIRED TO MAINTAIN THE SPACE TEMPERATURE SETPOINT AT THE WALL MOUNTED SENSOR. THE BAS SHALL MONITOR THE VFD ALARM SIGNAL. UPON A VFD ALARM THE BAS SHALL BE NOTIFIED.

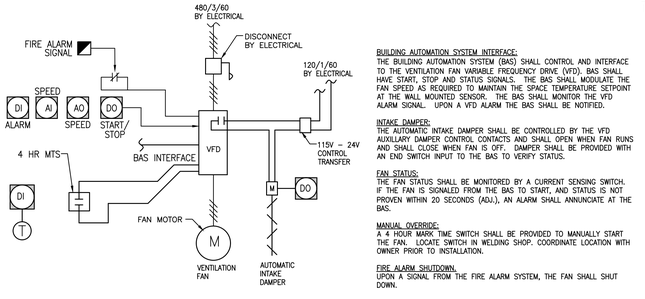
INTAKE DAMPER:
THE AUTOMATIC INTAKE DAMPER SHALL BE CONTROLLED BY THE VFD AUXILLARY DAMPER CONTROL CONTACTS AND SHALL OPEN WHEN FAN RUNS AND SHALL CLOSE WHEN FAN IS OFF. DAMPER SHALL BE PROVIDED WITH AN END SWITCH INPUT TO THE BAS TO VERIFY STATUS.

FAN STATUS:
THE FAN STATUS SHALL BE MONITORED BY A CURRENT SENSING SWITCH. IF THE FAN IS SIGNALED FROM THE BAS TO START, AND STATUS IS NOT PROVEN WITHIN 20 SECONDS (ADJ.), AN ALARM SHALL ANNUNCIATE AT THE BAS.

MANUAL OVERRIDE:
A 4 HOUR MARK TIME SWITCH SHALL BE PROVIDED TO MANUALLY START THE FAN. LOCATE SWITCH IN WELDING SHOP. COORDINATE LOCATION WITH OWNER PRIOR TO INSTALLATION.

FIRE ALARM SHUTDOWN.
UPON A SIGNAL FROM THE FIRE ALARM SYSTEM, THE FAN SHALL SHUT DOWN.

## VF-1 & 2 / INTAKE HOOD CONTROL DIAGRAM




BUILDING AUTOMATION SYSTEM INTERFACE:
THE BUILDING AUTOMATION SYSTEM (BAS) SHALL CONTROL AND INTERFACE TO THE VENTILATION FAN VARIABLE FREQUENCY DRIVE (VFD). BAS SHALL HAVE START, STOP AND STATUS SIGNALS. THE BAS SHALL MODULATE THE FAN SPEED AS REQUIRED TO MAINTAIN THE SPACE TEMPERATURE SETPOINT AT THE WALL MOUNTED SENSOR. THE BAS SHALL MONITOR THE VFD ALARM SIGNAL. UPON A VFD ALARM THE BAS SHALL BE NOTIFIED.

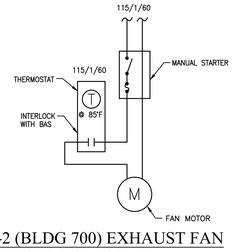
INTAKE DAMPER:
THE AUTOMATIC INTAKE DAMPER SHALL BE CONTROLLED BY THE VFD AUXILLARY DAMPER CONTROL CONTACTS AND SHALL OPEN WHEN FAN RUNS AND SHALL CLOSE WHEN FAN IS OFF. DAMPER SHALL BE PROVIDED WITH AN END SWITCH INPUT TO THE BAS TO VERIFY STATUS.

FAN STATUS:
THE FAN STATUS SHALL BE MONITORED BY A CURRENT SENSING SWITCH. IF THE FAN IS SIGNALED FROM THE BAS TO START, AND STATUS IS NOT PROVEN WITHIN 20 SECONDS (ADJ.), AN ALARM SHALL ANNUNCIATE AT THE BAS.

MANUAL OVERRIDE:
A 4 HOUR MARK TIME SWITCH SHALL BE PROVIDED TO MANUALLY START THE FAN. LOCATE SWITCH IN WELDING SHOP. COORDINATE LOCATION WITH OWNER PRIOR TO INSTALLATION.

FIRE ALARM SHUTDOWN.
UPON A SIGNAL FROM THE FIRE ALARM SYSTEM, THE FAN SHALL SHUT DOWN.

## VF-3 & 4 / LV-1 INTAKE DAMPER CONTROL




## EF-2 (BLDG 700) EXHAUST FAN CONTROLS DIAGRAM

NOT TO SCALE

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ACCS
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225072

HVAC DETAILS

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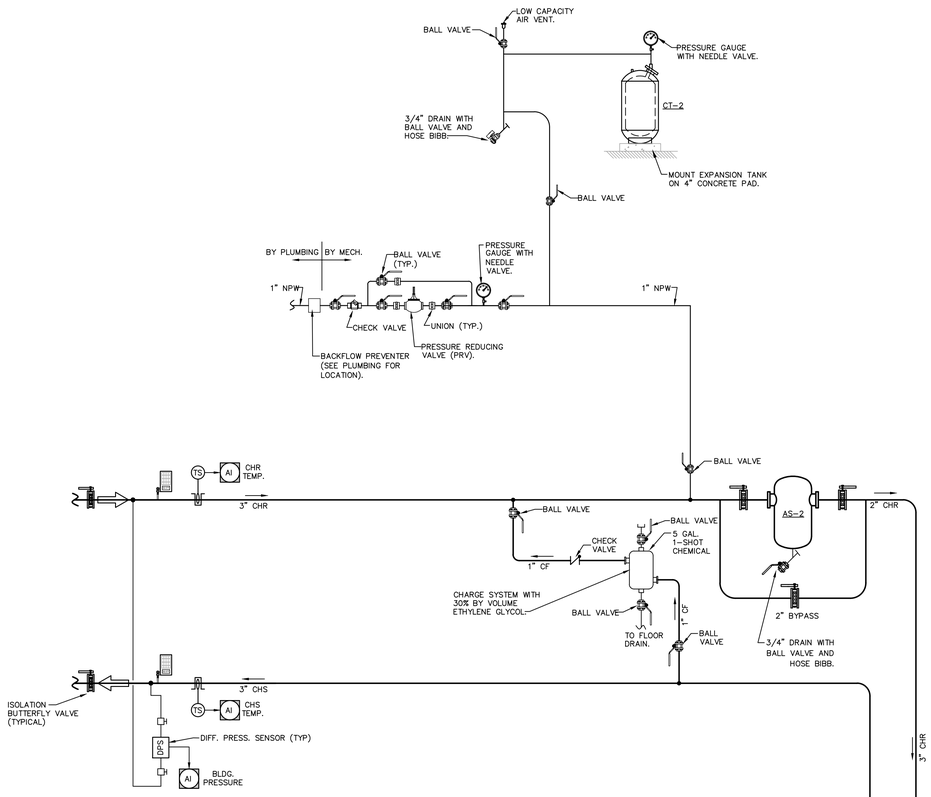


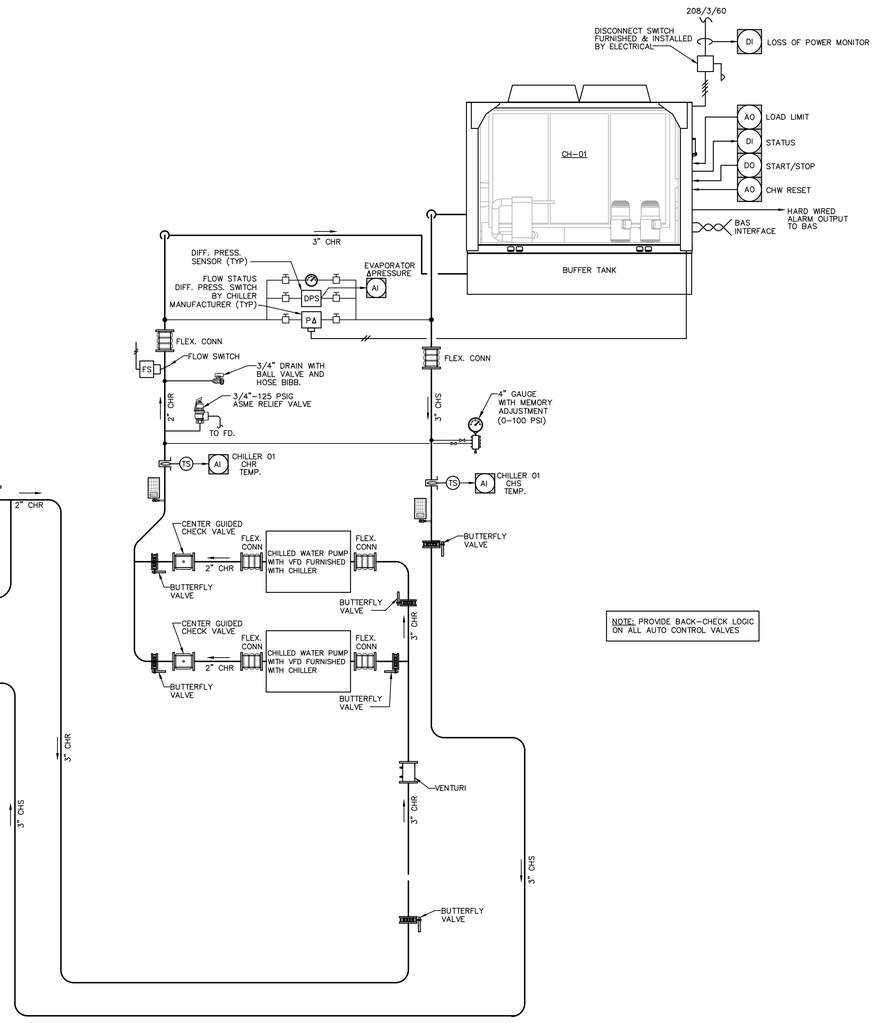


NOTE: PROVIDE BACK-CHECK LOGIC ON ALL AUTO CONTROL VALVES

# CHILLED WATER PIPING AND INSTRUMENTATION DIAGRAM

NO SCALE

CHILLED WATER SYSTEM CONTROLS SEQUENCES:

GENERAL:
THE SYSTEM IS PROVIDED WITH TWO CHILLED WATER PUMPS. PUMPS SHALL BE CONTROLLED IN A LEAD/LAG CONFIGURATION BASED ON LOAD AND RUN TIME. THE BAS CONTROLLER SHALL INITIATE CHILLER START-UP SUBJECT TO CHILLER SCHEDULE, ALL INTERNAL CHILLER SAFETIES, CHILLED WATER SET POINTS, CURRENT LIMITING SET POINTS, ALARMS AND LOAD LIMITING.

CHILLED WATER PUMP CONTROLS:
UPON A CALL FOR COOLING AND CHILLER ENABLE THE BAS SHALL SLOWLY INCREASE THE LEAD PUMP SPEED TO REACH AND MAINTAIN THE DESIGN DIFFERENTIAL PRESSURE SET POINT AT THE DIFFERENTIAL PRESSURE MONITORING POINT AS SET BY THE TEST AND BALANCE CONTRACTOR AT STARTUP.

UPON FAILURE OF THE LEAD CHILLED WATER PUMP, THE BAS SHALL ALARM THE WORKSTATION, AND SHALL INITIATE START-UP OF THE LAG CHILLED WATER PUMP. A LEAD/LAG SCHEDULE SHALL ALTERNATE THE PUMPS ON A WEEKLY BASIS. IF FOR ANY REASON THE PUMP STATUS AT ITS CURRENT SENSOR DOES NOT MATCH THE BAS COMMAND STATUS FOR 1 MINUTE (ADJUSTABLE) THE BAS SHALL DISABLE THE PUMP, ALARM THE WORKSTATION, AND SHALL START THE LAG CHILLED WATER PUMP. THE BAS SHALL ROTATE THE LEAD/LAG PUMPS EVERY WEEK OR AS DIRECTED BY THE OWNER TO EQUALIZE PUMP RUN TIMES.

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| ISSUE | DATE |
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| IFB Set | 05/27/2026 |

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CHECKED BY: JSD

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ALABAMA No. 14178 PROFESSIONAL ENGINEER JAMES S. DAVIS, JR.
05/27/2026
225072

CHILLED WATER PIPING AND INSTRUMENTATION DIAGRAM

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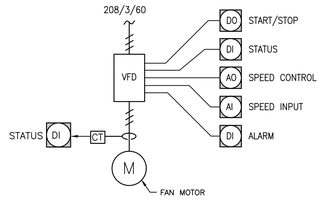
# HOT WATER PIPING AND INSTRUMENTATION DIAGRAM

NO SCALE




## HWP-1 & 2 CONTROLS

NO SCALE

HOT WATER SYSTEM CONTROLS SEQUENCES:

THE BUILDING AUTOMATION SYSTEM (BAS) CONTROLLER WILL CONTROL THE BOILER AND PUMPS BY CONTROLLING THE BOILER ENABLE/DISABLE BOILER SIGNAL AND THE SUPPLY HEATING WATER TEMPERATURE SETPOINT (ADJ.).

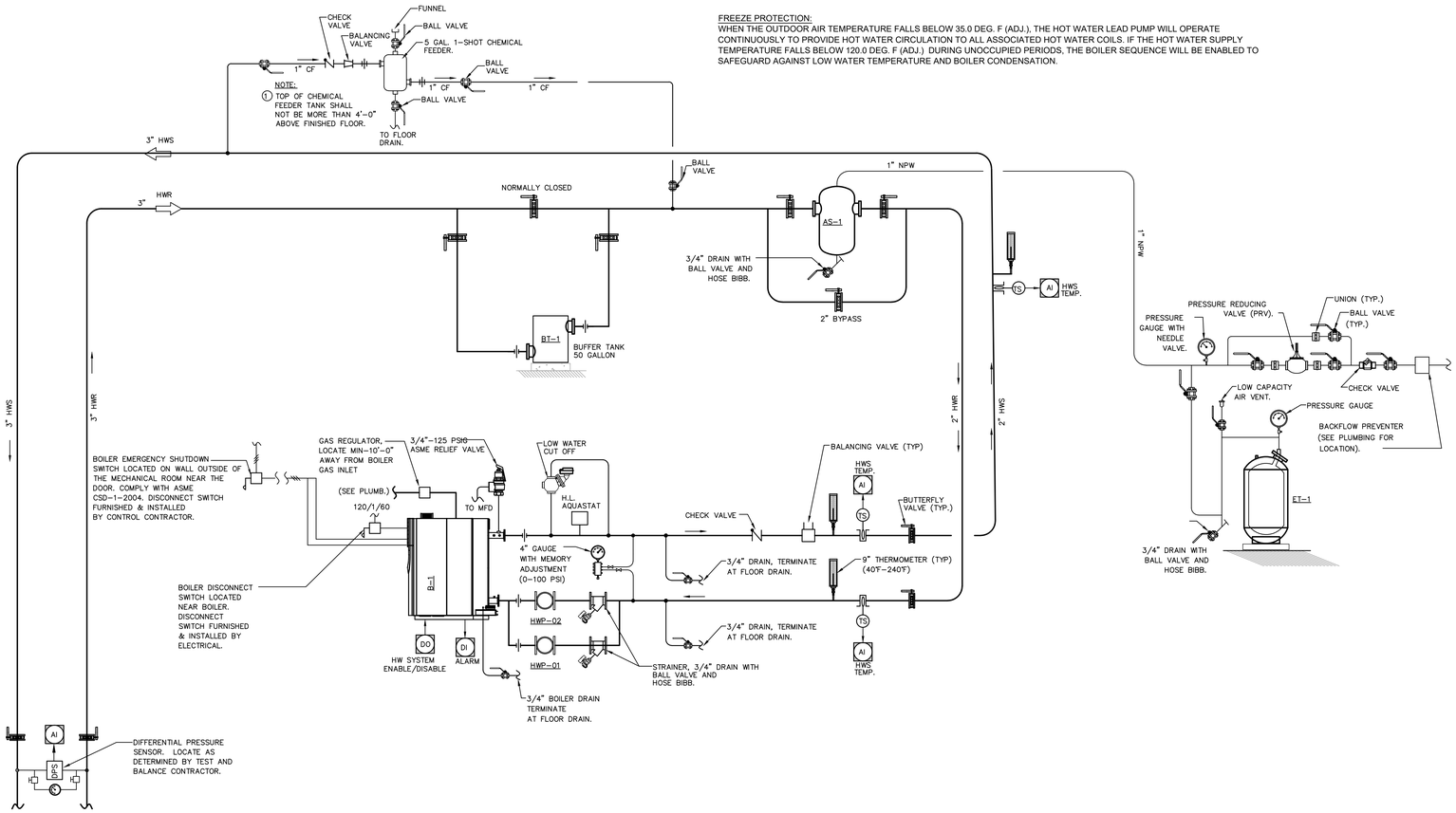
BOILER CONTROL:
BOILER SEQUENCE WILL BE BASED OFF THE ON-BOARD BOILER CONTROLS AND BAS TO START LEAD, PRIMARY HOT WATER PUMP TO MAINTAIN SUPPLY HEATING WATER SETPOINT. HWP-1 & HWP-2 SHALL ALTERNATE WEEKLY. IF LEAD PUMP FAILS THE BACK UP PUMP SHALL START AUTOMATICALLY AND BAS SHALL INDICATE A PUMP FAILURE ALARM.

HOT WATER RESET:
THE HOT WATER SUPPLY TEMPERATURE SETPOINT WILL BE LINEARLY RESET FROM 120.0 DEG. F (ADJ.) TO 160.0 DEG. F (ADJ.) AS THE OUTSIDE AIR TEMPERATURE FALLS FROM 60.0 DEG. F (ADJ.) TO 0.0 DEG. F (ADJ.).

HOT WATER PUMP FAILURE:
IF THE LEAD START/STOP IS ENABLED AND THE CURRENT SWITCH STATUS IS OFF FOR MORE THAN 30 SECONDS (ADJ.), THE BAS CONTROLLER WILL ANNUNCIATE A HOT WATER PUMP FAILURE ALARM AT THE BAS WORKSTATION AND START THE LAG PUMP. WHEN A HOT WATER PUMP FAILURE EXISTS, LEAD/LAG AUTOMATION WILL BE DISABLED AND THE CURRENTLY RUNNING PUMP BECOMES THE LEAD PUMP. ONCE THE PROBLEM HAS BEEN CORRECTED, THE OPERATOR WILL BE ABLE TO CLEAR THE ALARM FAILURE FROM THE BAS CONTROLLER OR BAS WORKSTATION. THIS ACTION WILL RE-ENABLE THE LEAD/LAG SEQUENCE.

HOT WATER DISTRIBUTION PUMP SPEED:
THE BAS CONTROLLER WILL MONITOR THE HOT WATER SYSTEM DIFFERENTIAL PRESSURE SENSOR. WHEN THE PUMP VFD IS ENABLED, THE BAS CONTROLLER WILL CONTROL THE ANALOG SPEED SIGNAL SENT TO THE PUMP VFD TO MAINTAIN A HOT WATER DIFFERENTIAL PRESSURE SETPOINT AS DETERMINED BY TAB SUBCONTRACTOR.

FREEZE PROTECTION:
WHEN THE OUTDOOR AIR TEMPERATURE FALLS BELOW 35.0 DEG. F (ADJ.), THE HOT WATER LEAD PUMP WILL OPERATE CONTINUOUSLY TO PROVIDE HOT WATER CIRCULATION TO ALL ASSOCIATED HOT WATER COILS. IF THE HOT WATER SUPPLY TEMPERATURE FALLS BELOW 120.0 DEG. F (ADJ.) DURING UNOCCUPIED PERIODS, THE BOILER SEQUENCE WILL BE ENABLED TO SAFEGUARD AGAINST LOW WATER TEMPERATURE AND BOILER CONDENSATION.





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**HOT WATER PIPING AND INSTRUMENTATION DIAGRAM**

M3.05

3/19/2009 10:47:59 AM TEMPLATE VERSION: 1.0

# PLUMBING LEGEND

| | |
|---|---|
| | SANITARY, SOIL OR WASTE LINE |
| | VENT LINE |
| AW | ACID WASTE LINE (AW) |
| AV | ACID VENT LINE (AV) |
| ST | STORM LINE (ST) |
| SST | SECONDARY STORM LINE (SST) |
| CW | COLD WATER LINE (CW) |
| HW | HOT WATER LINE (HW) |
| HWR | HOT WATER RETURN LINE (HWR) |
| DR | DRAIN (DR) |
| GW | GREASE WASTE (GW) |
| G | NATURAL GAS (G) |
| 180 | 180°F HOT WATER LINE |
| 180R | 180°F HOT WATER RETURN LINE |
| 140 | 140°F HOT WATER LINE |
| 140R | 140°F HOT WATER RETURN LINE |
| 120 | 120°F HOT WATER LINE |
| 120R | 120°F HOT WATER RETURN LINE |
| 110 | 110°F HOT WATER LINE |
| 110R | 110°F HOT WATER LINE |
| O | OXYGEN LINE (O) (O2) |
| CA | COMPRESSED AIR LINE (CA) |
| CO2 | CARBON DIOXIDE (CO2) |
| IA | INSTRUMENT AIR LINE (IA) |
| MA | MEDICAL AIR LINE (MA) |
| NO | NITROUS OXIDE LINE (NO) |
| N | NITROGEN (N) |
| EVAC | GAS EVACUATION (EVAC) |
| V | VACUUM LINE (V) |
| WAGD | WASTE ANESTHETIC GAS DISPOSAL (WAGD) |
| LA | LABORATORY AIR LINE (LA) |
| LV | LABORATORY VACUUM LINE (LV) |
| NPCW | NON-POTABLE COLD WATER (NPCW) |
| | DEMOLISHED LINE \| LINE REMOVED |
| | ZONE VALVE BOX (ZVB) |
| | GATE VALVE |
| | BUTTERFLY VALVE |
| | GAS COCK |
| | BALL VALVE |
| | UNION |
| | CHECK VALVE |
| | CIRCUIT SETTER \| BALANCING VALVE |
| | THERMOSTATIC MIXING VALVE |
| | PIPE SUPPORT ON ROOF |
| | INJECTION PORT |
| | PUMP |
| | BALANCING STATION |
| | PRESSURE REGULATOR (WATER) |
| | PRESSURE REGULATOR (COMPRESSIBLE GAS) |
| | SOLENOID VALVE |
| | BACKFLOW PREVENTER |
| | STRAINER |
| | FLOW ARROW |
| HA-X | WATER HAMMER ARRESTOR |
| | PIPE TURNING UP |
| | PIPE TURNING DOWN |
| | PIPE BOTTOM TAP |
| | P-TRAP |
| | CLEANOUT (FLOOR) |
| | CLEANOUT (ABOVE SLAB ) |
| | CAP OR PLUG |
| | POINT OF CONNECTION |
| | PIPING CONTINUED |
| | PIPE SLEEVE (AT FOUNDATION WALL) |
| M | METER |
| | THRUST BLOCK (TB) |
| # | DEMOLITION NOTE |
| # | DRAWING NOTE \| KEY NOTE |
| # | RISER DIAGRAM NUMBER |
| # | DRAWING REVISION |
| # | KITCHEN EQUIPMENT NUMBER / TAG |
| CA | COMPRESSED AIR OUTLET |
| | SHOWER HEAD |
| A | LABORATORY AIR OUTLET |
| V | LABORATORY VACUUM OUTLET |
| G | LABORATORY GAS OUTLET |
| HB | HOSE BIBB |
| WH | WALL HYDRANT |
| RH | ROOF HYDRANT |
| DCO | DECK CLEANOUT (TRAFFIC RATED) |
| DD | DUMPSTER DRAIN |
| HD | HUB DRAIN |
| FD | FLOOR DRAIN |
| FD | FLOOR DRAIN |
| MFD | MECHANICAL FLOOR DRAIN |
| SD | SHOWER DRAIN |
| CWD | CAN WASH DRAIN |
| | LAUNDRY TRENCH DRAIN |
| RD | ROOF DRAIN |
| ERD | EMERGENCY ROOF DRAIN |
| DSN | DOWNSPOUT NOZZLE |
| DSB | DOWNSPOUT BOOT |
| AD | AREA DRAIN |
| FS | FLOOR SINK |
| FS-1 | FLOOR SINK #1 |
| FS-2 | FLOOR SINK #2 |
| TD | TERRACE TRAIN |
| | CONNECT TO EXISTING |
| | DISCONNECT POINT |

# PLBG ABBREVIATIONS

| | |
|---|---|
| AAV | AIR ADMITTANCE VALVE |
| ADA | AMERICANS WITH DISABILITIES ACT |
| AFF | ABOVE FINISHED FLOOR |
| AHJ | AUTHORITY HAVING JURISDICTION |
| AV | ACID VENT |
| AW | ACID WASTE |
| BFF | BELOW FINISHED FLOOR |
| BFP | BACKFLOW PREVENTER |
| BT | BATH TUB |
| BTUH | BRITISH THERMAL UNIT PER HOUR |
| CFH | CUBIC FEET PER HOUR (1,000 BTUH) |
| CFM | CUBIC FEET PER MINUTE |
| CA | COMPRESSED AIR |
| CF | COMBINATION FIXTURE |
| CO | CLEANOUT |
| CP | CIRCULATION PUMP |
| DC | DOUBLE CHECK |
| DCDA | DOUBLE CHECK DETECTOR ASSEMBLY |
| DN | DOWN |
| DR | DRAIN |
| DW | DISHWASHER (O.F.E.) |
| ECO | EXTERIOR CLEAN OUT (2-WAY) |
| ERD | EMERGENCY ROOF DRAIN |
| EST. | ESTIMATED (APPROXIMATELY) |
| ET | EXPANSION TANK |
| EWH | ELECTRIC WATER HEATER |
| ETR. | EXISTING TO REMAIN |
| EX. EXIST. | EXISTING |
| EWC | ELECTRIC WATER COOLER |
| EWT | ENTERING WATER TEMPERATURE |
| FCO | FLOOR CLEANOUT |
| FD | FLOOR DRAIN |
| FFE | FINISHED FLOOR ELEVATION |
| FS | FLOOR SINK |
| FLA | FULL LOAD AMPERAGE |
| FM | FM GLOBAL |
| FT.HD. | FEET OF HEAD |
| GAL | GALLON |
| GCO | GRADE CLEANOUT |
| GPD | GALLONS PER DAY |
| GPH | GALLONS PER HOUR |
| GPM | GALLONS PER MINUTE |
| GI | GREASE INTERCEPTOR (OUTSIDE) |
| GT | GREASE TRAP (INSIDE) |
| GW | GREASE WASTE |
| GWH | GAS WATER HEATER |
| HA | WATER HAMMER ARRESTOR |
| HP | HORSE POWER |
| HWG | HOT WATER GENERATOR |
| HX | HEAT EXCHANGER |
| ICC | INTERNATIONAL CODE COUNCIL |
| ICE | ICE MAKER (O.F.E.) |
| IND. IW | INDIRECT, INDIRECT WASTE |
| INV. | INVERT ELEVATION |
| IN.WC. | INCHES WATER COLUMN |
| KW | KILOWATT |
| K-# | KITCHEN EQUIPMENT NUMBER |
| LAV | LAVATORY |
| LT | LINT TRAP |
| LWT | LEAVING WATER TEMPERATURE |
| MB | MOP BASIN |
| MH | MAN HOLE |
| M-# | MEDICAL FIXTURE EQUIPMENT NUMBER |
| NC | NORMALLY CLOSED |
| NO | NORMALLY OPEN |
| NRS | NON RISING STEM |
| O.F.E. | OWNER FURNISHED EQUIPMENT |
| OS&Y | OUTSIDE SCREW AND YOKE |
| P-# | PLUMBING FIXTURE NUMBER |
| PRV | PRESSURE REDUCING VALVE |
| PSI | POUNDS PER SQUARE INCH |
| RD | ROOF DRAIN |
| RL | RAIN LEADER |
| RPM | REVOLUTIONS PER MINUTE |
| RPZ | REDUCED PRESSURE ZONE |
| SAN | SANITARY |
| SC | STORM CONDUCTOR |
| SSC | SECONDARY STORM CONDUCTOR |
| SCFM | STANDARD CUBIC FEET PER MINUTE |
| SHR | SHOWER |
| SK | SINK |
| SS | SOIL STACK |
| ST | STORM |
| SST | SECONDARY STORM |
| TB | THRUST BLOCK |
| TDL | TOTAL DEVELOPED LENGTH |
| TF | TERMINAL FITTING |
| TG | TRAP GUARD |
| TMV | THERMOSTATIC MIXING VALVE |
| TP | TRAP PRIMER |
| TYP | TYPICAL |
| UB | UTILITY BOX |
| UR | URINAL |
| V | VENT |
| VAC | VACUUM |
| V/P | VOLTAGE / PHASE |
| VSTR | VENT STACK THROUGH ROOF |
| VS | VENT STACK |
| VTR | VENT THROUGH ROOF |
| WAGD | WASTE ANESTESIA GAS DISPOSAL |
| WC | WATER CLOSET |
| WCO | WALL CLEAN OUT |
| WMB | WASHING MACHINE BOX |
| WS | WASTE STACK |
| YCO | YARD CLEANOUT |

# PLUMBING FIXTURE CONNECTION & DESCRIPTION SCHEDULE

| MARK | FIXTURE | WASTE | COLD | HOT | SPECIFICATIONS |
|---|---|---|---|---|---|
| WC-1 | WATER CLOSET, ADA | 4" | 1" | --- | KOHLER #K-96057-0 "HIGHCLIFF", WHITE, VITREOUS CHINA, FLOOR MOUNTED, BOTTOM OUTLET, ELONGATED BOWL, 1-1/2" TOP SPUD, ADA HEIGHT WATER CLOSET WITH:<br>SLOAN #G2-RESS-C-1.6-HW HARD-WIRED SENSOR FLUSH VALVE. INCLUDE TRANSFORMER FOR UP TO 6 VALVES.<br>SLOAN #J-310-A, SPLIT RING YJ BRACKET.<br>CHURCH #2155SSCT WHITE, OPEN FRONT, HEAVY DUTY PLASTIC TOILET SEAT WITH ANTI-MICROBIAL FINISH AND SELF SUSTAINING HINGES.<br>PROVIDE FLOOR FLANGE AND WAX SEAL.<br><br>INSTALL FLUSH VALVE WITH HANDLE ON THE OPEN SIDE (WIDE SIDE) OF STALL OR ROOM.<br>MUST MEET ADA. |
| WC-2 | WATER CLOSET | 4" | 1" | --- | KOHLER #K-96053-0 "WELLCOMME", WHITE, VITREOUS CHINA, FLOOR MOUNTED, BOTTOM OUTLET, ELONGATED BOWL, 1-1/2" TOP SPUD, WATER CLOSET WITH:<br>SLOAN #G2-RESS-C-1.6-HW HARD-WIRED SENSOR FLUSH VALVE. INCLUDE TRANSFORMER FOR UP TO 6 VALVES.<br>SLOAN #J-310-A, SPLIT RING YJ BRACKET.<br>CHURCH #2155SSCT WHITE, OPEN FRONT, HEAVY DUTY PLASTIC TOILET SEAT WITH ANTI-MICROBIAL FINISH AND SELF SUSTAINING HINGES.<br>PROVIDE FLOOR FLANGE AND WAX SEAL.<br><br>INSTALL FLUSH VALVE WITH HANDLE ON THE OPEN SIDE (WIDE SIDE) OF STALL OR ROOM. |
| UR-1 | URINAL, ADA | 2" | 3/4" | --- | KOHLER #K-4991-ET-0 "BARDON", WHITE, VITREOUS CHINA, WALL HUNG, EXTENDED RIM, 3/4" TOP SPUD URINAL WITH:<br>SLOAN #G2-RESS-U-1.0-HW HARD-WIRED SENSOR FLUSH VALVE. INCLUDE TRANSFORMER FOR UP TO 6 VALVES.<br>SLOAN #J-312-A SPLIT RING, YJ BRACKET<br>JR SMITH #637 IN WALL FIXTURE CARRIER.<br><br>REFER TO ARCHITECTURAL PLANS AND ELEVATIONS FOR MOUNTING HEIGHT.<br>MUST MEET ADA. |
| UR-2 | URINAL | 2" | 3/4" | --- | KOHLER #K-4991-ET-0 "BARDON", WHITE, VITREOUS CHINA, WALL HUNG, EXTENDED RIM, 3/4" TOP SPUD URINAL WITH:<br>SLOAN #G2-RESS-U-1.0-HW HARD-WIRED SENSOR FLUSH VALVE. INCLUDE TRANSFORMER FOR UP TO 6 VALVES.<br>SLOAN #J-312-A SPLIT RING, YJ BRACKET<br>JR SMITH #637 IN WALL FIXTURE CARRIER.<br><br>REFER TO ARCHITECTURAL PLANS AND ELEVATIONS FOR MOUNTING HEIGHT. |
| LAV-1 | LAVATORY | 1-1/4" | 1/2" | 1/2" | KOHLER #K-2196-0 "PENNINGTON", WHITE, VITREOUS CHINA, DROP-IN, OVAL BASIN WITH:<br>STANDARD SELECTRONIC 6058.165 HARD-WIRED FAUCET. INCLUDE MULTI-AC POWER SUPPLY FOR UP TO 15 FAUCETS.<br>McGUIRE #155A PO PLUG AND CHROME PLATED BRASS TAIL PIECE.<br>McGUIRE #8872 CHROME PLATED BRASS P-TRAP WITH CLEANOUT PLUG.<br>McGUIRE #LF2165 CHROME PLATED BRASS STOP VALVES AND SUPPLY RISERS.<br>WATTS #LFUSG-SC-M2 SATIN CHROME FINISH, BRASS BODY, ASSE 1070 THERMOSTATIC MIXING VALVE, SET OUTLET TO 105°F.<br><br>MUST MEET ADA. |
| JR-1 | JANITOR'S RECEPTOR | 3" | 3/4" | 3/4" | STERN WILLIAMS #HL-1800 'HILOW' (24"x24"x12") MOLDED TERRAZZO SQUARE BASIN HAVING ALL EXPOSED SURFACES GROUND SMOOTH WITH:<br>STERN WILLIAMS #BP-3-24 STAINLESS STEEL BACK-SPLASH PANELS.<br>STERN WILLIAMS #A-20 ALUMINUM BUMPER GUARDS ON EXPOSED RIMS.<br>STERN WILLIAMS #T-35 30" HOSE AND WALL BRACKET.<br>STERN WILLIAMS #T-40 STAINLESS STEEL MOP HANGER.<br>CHICAGO FAUCETS #897CCP SERVICE FAUCET WITH VACUUM BREAKER, INTEGRAL STOPS AND SPRING CHECKS ON SUPPLIES.<br><br>PROVIDE A CONTINUOUS BEAD OF MOLD RESISTANT, SILICON CAULK AROUND BASE OF RECEPTOR WHERE IT IS SET ON THE FLOOR. |
| EWC-1 | WATER COOLER, BI-LEVEL, ADA | 1-1/2" | 1/2" | --- | ELKAY #LZSTL8WSSK 'EZH20' WALL HUNG, BI-LEVEL, ELECTRIC WATER COOLER, 8 GPH OF 50°F WATER, WITH WATER FILTER, FILTER STATUS INDICATOR AND BOTTLE FILLING STATION, 120V/1PH. PROVIDE:<br>MCGUIRE #8912C CHROME PLATED BRASS P-TRAP WITH CLEANOUT PLUG<br>MCGUIRE #LF2165 CHROME PLATED BRASS STOP VALVE AND SUPPLY RISER.<br>JR SMITH #0834 IN WALL CARRIER.<br><br>REFER TO ARCHITECTURAL PLANS AND ELEVATIONS FOR MOUNTING HEIGHT.<br>MUST MEET ADA. |
| EEW-1 | EMERGENCY EYEWASH | 1/2" | 1/2" | --- | GUARDIAN #G1724 WALL MOUNT, WIDE AREA EYEFACE WASH, WALL MOUNT, STAINLESS STEEL BOWL, INCLUDE TAILPIECE AND TRAP, AND G3600LF SAFETY THERMOSTATIC MIXING VALVE. |
| IMB | ICE MAKER BOX | --- | 1/2" | - | GUY GRAY #IMB1HAAB WHITE POWDER COATED 20 GAUGE STEEL BOX AND FACE PLATE WITH QUARTER TURN, BRASS, HAMMER BALL VALVE.<br><br>PROVIDE 10'-0" OF SOFT TEMPER COPPER FOR CONNECTION TO EQUIPMENT. |
| CM | COFFEE MAKER SUPPLY BOX | - | 1/2" | - | GUY GRAY #MB1HAAB WHITE POWDER COATED 20 GAUGE STEEL BOX AND FACE PLATE WITH QUARTER TURN, BRASS, HAMMER BALL VALVE.<br><br>PROVIDE 10'-0" OF SOFT TEMPER COPPER FOR CONNECTION TO EQUIPMENT. |

NOTES:
1. REFER TO ARCHITECTURAL ELEVATIONS FOR ALL MOUNTING HEIGHTS.
2. COORDINATE ALL FINISHES WITH ARCHITECT PRIOR TO ORDERING EQUIPMENT.
3. PROVIDE A BEAD OF MOLD RESISTANT, SILICONE CAULK BETWEEN ALL FIXTURES AND THE SURFACES THEY ARE MOUNTED TO.
4. STOP VALVES WITH PLASTIC COMPONENTS (STEM, HANDLE, BALL, ETC) ARE NOT ACCEPTABLE.

# ELECTRIC WATER HEATER SCHEDULE - TANK

| MARK | LOCATION | SERVING | TYPE | STORAGE (GAL) | E.W.T. (°F) | L.W.T. (°F) | RECOVERY (GPH) | ELECTRICAL KW | ELECTRICAL HZ | ELECTRICAL V/P | BASIS OF DESIGN |
|---|---|---|---|---|---|---|---|---|---|---|---|
| EWH-1 | JANITOR 303 | BUILDING | TANK | 30 | 50 | 120 | 23 | 4.5 | 60 | 208/1 | LOCHINVAR #LDZ-30TK |
| EWH-2 | JANITOR 711 | BUILDING | TANK | 30 | 50 | 120 | 23 | 4.5 | 60 | 208/1 | LOCHINVAR #LDZ-30TK |

NOTES:
1. BASIS OF DESIGN IS LOCHINVAR. AO SMITH, BRADFORD WHITE, RHEEM ARE APPROVED EQUALS.
2. RECOVERY OF EWH-1 BASED ON A TEMPERATURE RISE OF 80°F
2. PROVIDE METAL DRAIN PAN BELOW WATER HEATER.

# CIRCULATOR PUMP SCHEDULE

| MARK | LOCATION | TYPE | GPM | LIFT (FT.HEAD) | ELECTRICAL W | ELECTRICAL HZ | ELECTRICAL V/P | BASIS OF DESIGN |
|---|---|---|---|---|---|---|---|---|
| CP-1 | JANITOR 303 | IN-LINE | 3 | 20 | 218 | 60 | 120/1 | ARMSTRONG ASTRO 280SSU |
| CP-2 | JANITOR 711 | IN-LINE | 3 | 20 | 218 | 60 | 120/1 | ARMSTRONG ASTRO 280SSU |

NOTES:
1. ALL WETTED PARTS OF CIRCULATOR PUMP SHALL BE STAINLESS STEEL OR LEAD FREE BRASS/BRONZE.

# PLUMBING SPECIALTIES CONNECTION SCHEDULE - PRESSURE

| MARK | SPECIALTY EQUIPMENT | WASTE | COLD | HOT | CA | SPECIFICATIONS |
|---|---|---|---|---|---|---|
| WH-1 | WALL HYDRANT | - | 3/4" | - | - | J.R. SMITH #5519-NB, WARM CLIMATE HYDRANT, BOX TYPE, CONCEALED HOSE CONNECTION WITH HINGED LOCKING COVER. 20 GAUGE STAINLESS STEEL BOX, NICKEL BRONZE BOX FACE. ALL BRONZE HYDRANT, CHROME PLATED FACE, 3/4" HOSE CONNECTION, LOOSE TEE HANDLE, ASSE 1011 VACUUM BREAKER, COORDINATE WALL THICKNESS AND LOCATION ON WALL WITH ARCHITECT. |
| RH-1 | COMPRESSED AIR HOSE REEL | | | | 1/2" | REELCRAFT #A5850 OLP-1/2. PROVIDE STOP FOR MINIMUM HOSE RETRACTING. |
| | | | | | | |

NOTES:
1. FOR HOSE BIBBS / WALL HYDRANTS - CHICAGO FAUCETS, J.R. SMITH, WOODFORD AND ZURN ARE APPROVED EQUALS.

# PLUMBING SPECIALTIES CONNECTION SCHEDULE - NON-PRESSURE

| MARK | SPECIALTY EQUIPMENT | WASTE | VENT | STORM | SPECIFICATIONS |
|---|---|---|---|---|---|
| FD | FLOOR DRAIN | SEE PLANS | SEE PLANS | - | J.R. SMITH #2005-NB, CAST IRON BODY, FLASHING COLLAR AND ADJUSTABLE 6" ROUND NICKEL BRONZE STRAINER. PROVIDE SQUARE GRATE FOR TILE FLOORS. PROVIDE TRAP PRIMER CONNECTION WHERE INDICATED ON PLANS, PROVIDE ASSE 1072 MECHANICAL TRAP SEAL DEVICE IN ALL OTHERS. PROVIDE DEEP SEAL P-TRAP<br><br>RIM OF FLOOR DRAIN SHALL BE SET FLUSH WITH THE SURROUNDING FINISHED FLOOR. |
| MFD | MECHANICAL FLOOR DRAIN | SEE PLANS | SEE PLANS | - | J.R. SMITH #2130-B-M, CAST IRON BODY, FLASHING COLLAR AND ADJUSTABLE ROUND SLOTTED DUCTILE IRON GRATE, WITH SEDIMENT BUCKET AND TRAP PRIMER CONNECTION. PROVIDE DEEP SEAL P-TRAP. |
| | | | | | |

NOTES:
1. FOR DRAINS LOCATED IN SLAB ON GRADE, PROVIDE CAULK OUTLET. FOR DRAINS LOCATED IN ELEVATED SLABS PROVIDE NO-HUB OUTLET.

# AIR COMPRESSOR SCHEDULE

| MODEL | LOCATION | TYPE | CFM (@ 125 PSIG) | PRESS. (PSI) | RECEIVER GAL | RECEIVER ORIENT. | ELECTRICAL HP (SYSTEM) | ELECTRICAL HZ | ELECTRICAL V/P | BASIS OF DESIGN |
|---|---|---|---|---|---|---|---|---|---|---|
| AC-1 | BUILDING 300 | ROTARY SCREW (VARIABLE SPEED) | 80 | 125 | 120 | HORT. | 20 | 60 | 480/3 | GARDNER DENVER #LRS15 |
| AC-2 | BUILDING 700 | ROTARY SCREW (VARIABLE SPEED) | 80 | 125 | 120 | HORT. | 20 | 60 | 480/3 | GARDNER DENVER #LRS15 |

NOTES:
1. PROVIDE MINIMUM 6" HIGH, HOUSE KEEPING PAD FOR AIR COMPRESSOR. HOUSEKEEPING PAD SHALL BE MINIMUM 6" LARGER THAN EQUIPMENT FOOT PRINT.
2. PROVIDE AUTOMATIC DRAIN ON RECEIVER. EXTEND DRAIN TO BUILDING EXTERIOR AND TERMINATE WITH ELBOW DOWN.
3. LOW OIL STOP CONTROL.
4. VIBRATION ISOLATORS.
5. PROVIDE WITH NEMA 4 ELECTRICAL ENCLOSURES. UNITS MUST BE RATED TO BE OUTDOORS.
6. PROVIDE WITH TANK MOUNTED AIR DRYER. COORDINATE DEDICATED 115V CIRCUIT FOR DRYER.

# GENERAL NOTES - PLUMBING

1. LOCATIONS OF UTILITIES SHOWN ON PLANS ARE APPROXIMATE. VERIFY WITH THE LOCAL UTILITY PROVIDER PRIOR TO BIDDING.
2. THE CONTRACTOR SHALL VERIFY EXACT LOCATION, SIZE AND ELEVATION OF ALL EXISTING SERVICES PRIOR TO INSTALLING ANY NEW PIPE.
3. ALL EXTERIOR (OUTSIDE) CLEANOUTS SHALL BE BROUGHT TO GRADE AND EMBEDDED IN A 18"x18"x6" THICK CONCRETE PAD.
4. WHEREVER DISSIMILAR METALS ARE CONNECTED, A DIELECTRIC CONNECTOR SHALL BE USED.
5. ALL HORIZONTAL WATER VENT PIPING IS RUN ABOVE CEILING ON PLAN WHICH SHOWN UNLESS OTHERWISE NOTED.
6. ALL HORIZONTAL SANITARY AND STORM PIPING IS RUN ABOVE FLOOR ON PLAN WHICH SHOWN UNLESS OTHERWISE NOTED.
7. ALL HORIZONTAL WATER PIPING ABOVE CEILING SHALL BE INSTALLED AS LOW AS POSSIBLE WITH BATT INSULATION INSTALLED OVER INSULATED PIPE OR WITHIN INSULATED ROOF.
8. ALL WATER PIPING BELOW SLAB ON GRADE SHALL BE BENT UP AT ENDS SO THAT NO JOINTS OCCUR BELOW THE FLOOR.
9. ALL WATER PIPING BELOW SLAB ON GRADE SHALL BE ENCASED IN A POLYETHYLENE PIPE SLEEVE FOR ITS ENTIRE LENGTH.
10. COORDINATE ALL PIPE ROUTING TO AVOID CONFLICTS WITH STRUCTURAL MECHANICAL AND ELECTRICAL FEATURES OF THE BUILDING.
11. PAVEMENT CUTS, BACKFILLING AND PATCHES SHALL MEET CITY OF PRATTVILLE REQUIREMENTS.
12. ALL OWNER FURNISHED EQUIPMENT IS EITHER EXISTING OR PROVIDED BY THE OWNER. ALL FINAL PLUMBING CONNECTIONS BY THIS CONTRACTOR.
13. ALL PIPE, VALVES AND FITTINGS SHALL BE MADE IN THE USA.
14. ALL CEILINGS SPACES SHALL BE CONSIDERED 'RETURN AIR PLENUM'. ALL PIPING ROUTED IN A RETURN AIR PLENUM SHALL MEET ASTM E84.
15. ALL FLOOR DRAINS AND FLOOR CLEANOUTS SHALL BE INSTALLED WITH THE RIM/GRATE/COVER FLUSH WITH THE FINISHED FLOOR.
16. ALL FLOOR DRAINS, FLOOR SINKS, HUB DRAINS, MECHANICAL FLOOR DRAINS ETC, SHALL BE PROVIDED WITH A TRAP PRIMER. THE USE OF MECHANICAL TRAP SEALS (TRAP GUARDS) IS NOT ALLOWED.
17. THE USE OF FOAM CORE/CELLULAR CORE PVC IS NOT ALLOWED.

# GENERAL NOTES - HYDROFLUSH

1. ALL BELOW SLAB NON-PRESSURE, GRAVITY DRAINAGE SYSTEMS (SANITARY, WASTE AND STORM PIPING), 3" AND LARGER SHALL BE HYDROFLUSHED TO A POINT 100 FEET AWAY FROM THE BUILDING FOUNDATION OR TO THE NEAREST MANHOLE, WHICH EVER IS FIRST.
2. AFTER HYDROFLUSHING, ALL BELOW SLAB NON-PRESSURE, GRAVITY DRAINAGE SYSTEMS SHALL BE VIDEO INSPECTED AND RECORDED.
3. COPIES OF THE VIDEO INSPECTION SHALL BE PROVIDED TO THE ARCHITECT FOR REVIEW.
4. ANY DEFICIENCIES (E.G. DEBRIS, BLOCKAGES, LOW POINTS (BELLIES), BROKEN OR DAMAGED PIPING) DISCOVERED AS A RESULT OF THE VIDEO INSPECTION SHALL BE CLEARED OR REPAIRED.
5. HYDRO-FLUSHING AND VIDEO INSPECTION SHALL BE PERFORMED PRIOR TO THE FLOOR SLAB BEING POURED AND AGAIN PRIOR TO SUBSTANTIAL COMPLETION.

# GENERAL NOTES - UTILITIES

1. WITHIN THE SCOPE OF THIS CONTRACT THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR INCLUDING WITHIN THEIR BID AND PAYING ALL FEES INCURRED FOR ALL UTILITY CONNECTION FEES, TAP OR METER FEES, FIELD ENGINEERING COSTS, EQUIPMENT COSTS, INSTALLATION COSTS, AID TO CONSTRUCTION COSTS ETC FOR EACH UTILITY REQUIRED TO BE FULLY INSTALLED AND CONNECTED TO THIS FACILITY. ALL SERVICES SHALL BE INSTALLED IN ACCORDANCE WITH THE STANDARD REQUIREMENTS OF THE UTILITY PROVIDER, SPECIFICATIONS AND APPLICABLE CODES.
2. IF THE UTILITY PROVIDERS REQUIREMENTS ARE AT A VARIANCE WITH THESE CONSTRUCTION DOCUMENTS, THE CONTRACTORS BID SHALL INCLUDE THE ADDITIONAL COSTS REQUIRED TO COMPLETE THE INSTALLATION.
3. PLANNED INTERRUPTIONS OF ANY UTILITY SERVICE TO THE EXISTING FACILITY OR ANY PORTIONS OF THE EXISTING FACILITY AFFECTED BY THIS CONTRACTOR SHALL BE CAREFULLY PLANED AND COORDINATED A MINIMUM OF FOURTEEN (14) DAYS IN ADVANCE OF THE REQUESTED INTERRUPTION. THE CONTRACTOR SHALL NOT INTERRUPT SERVICES UNTIL THE SPECIFIC WRITTEN APPROVAL HAS BEEN GRANTED BY THE OWNER AND ARCHITECT. THE REQUEST FOR INTERRUPTIONS SHALL AT A MINIMUM INDICATE:

   SERVICES TO BE AFFECTED
   AREA OR AREAS TO BE AFFECTED
   DATE OF INTERRUPTION
   TIME AND ANTICIPATED DURATION.

4. REQUEST FOR INTERRUPTIONS OF SERVICE WILL NOT BE APPROVED UNTIL ALL EQUIPMENT AND MATERIAL REQUIRED FOR THE COMPLETION OF THAT PARTICULAR PHASE OF WORK ARE PRESENT ON THE PROJECT SITE AND READY FOR INSTALLATION. THE CONTRACTOR IS RESPONSIBLE FOR ALL OVERTIME, HOLIDAY, WEEKEND PAY ETC. TO THEIR EMPLOYEES TO CONDUCT THIS WORK DURING SCHEDULED NON-BUSINESS WORK HOURS OF THE FACILITY.

# WATER HAMMER SCHEDULE

| MARK | PPP | PIPE SIZE | WSFU |
|---|---|---|---|
| HA-A | A | 1/2" | 1-11 |
| HA-B | B | 3/4" | 12-32 |
| HA-C | C | 1" | 33-60 |
| HA-D | D | 1-1/4" | 61-113 |
| HA-E | E | 1-1/2" | 114-154 |
| HA-F | F | 2" | 155-330 |
| | | | |

# INSULATION SCHEDULE

| TEMPERATURE IN PIPING | PIPE SIZE | INSULATION THICKNESS |
|---|---|---|
| 40°F AND LOWER | 3/4" AND SMALLER | 1/2" |
| | 1" AND LARGER | 1" |
| 40°F - 60°F | 1-1/4" AND SMALLER | 1/2" |
| | 1-1/2" AND LARGER | 1" |
| 105°F - 140°F | 1-1/4" AND SMALLER | 1" |
| | 1-1/2" AND LARGER | 1-1/2" |

NOTES:
1) SCHEDULE BASED ON IECC TABLE C403.2.10.


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**PLUMBING LEGEND, SCHEDULES AND NOTES**

P0.01

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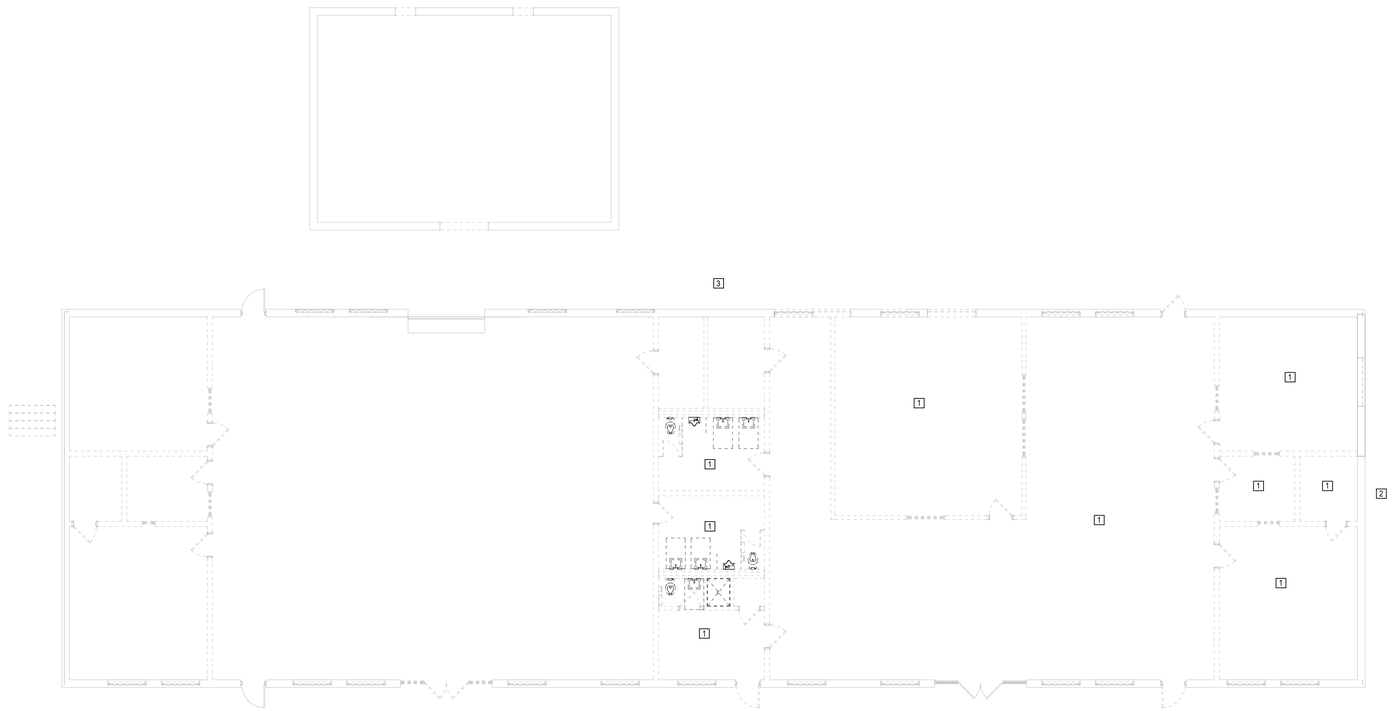
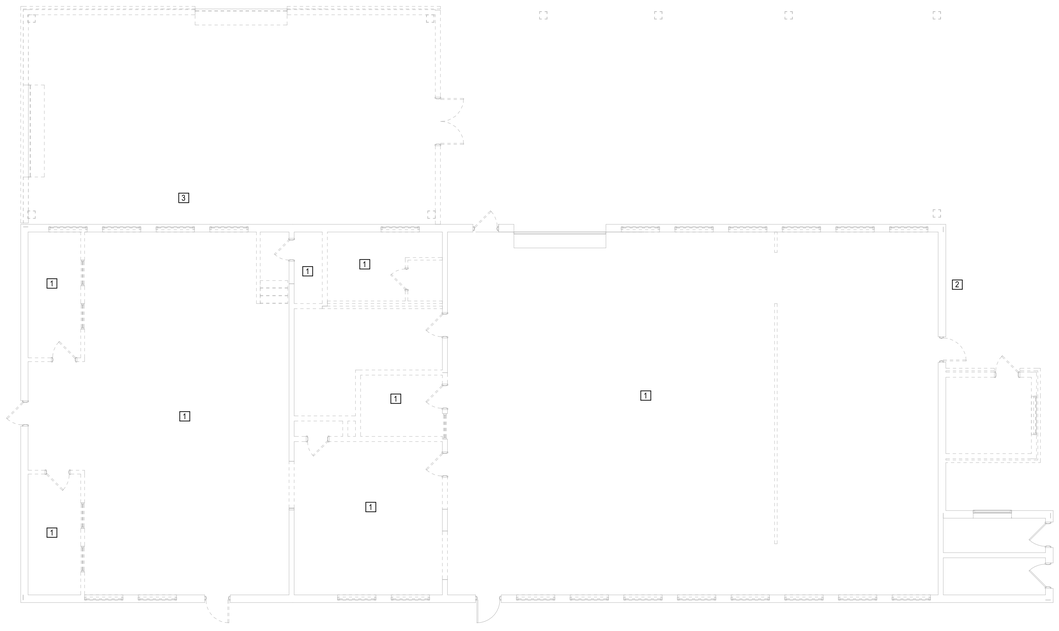



PLAN NORTH
TRUE NORTH

## 2 BUILDING 700 PLUMBING - DEMO
SCALE: 1/8" = 1'-0"




PLAN NORTH
TRUE NORTH

## 1 BUILDING 300 PLUMBING - DEMO
SCALE: 1/8" = 1'-0"

## DEMOLITON KEYED NOTES

1. DISCONNECT AND REMOVE ALL EXISTING PLUMBING FIXTURES COMPLETE IN BUILDING WHETHER SHOWN OR NOT. REMOVE COLD WATER BACK TO SERVICE ENTRY REMOVE SANITARY TO BELOW FLOOR AND CAP. HOT WATER TO BE REMOVED BACK TO WATER HEATER AND WATER HEATER TO BE DEMOLISHED.
2. DISCONNECT AND REMOVE ALL GAS PIPING LOCATED IN BUILDING BACK TO GAS METER AS SHOWN. REPLACE AND UPGRADE GAS SERVICE TO PROVIDE 2 PSI GAS FOR NEW CONSTRUCTION. COORDINATE WITH HVAC DRAWINGS.
3. DISCONNECT AND REMOVE ALL EXISTING AIR COMPRESSORS. DEMOLISH ALL COMPRESSED AIR PIPING BACK TO COMPRESSORS.

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No. 14178
PROFESSIONAL
ENGINEER
JAMES S. DAVIS, JR.
05/27/26
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**PLUMBING - DEMO PLANS**

P1.01

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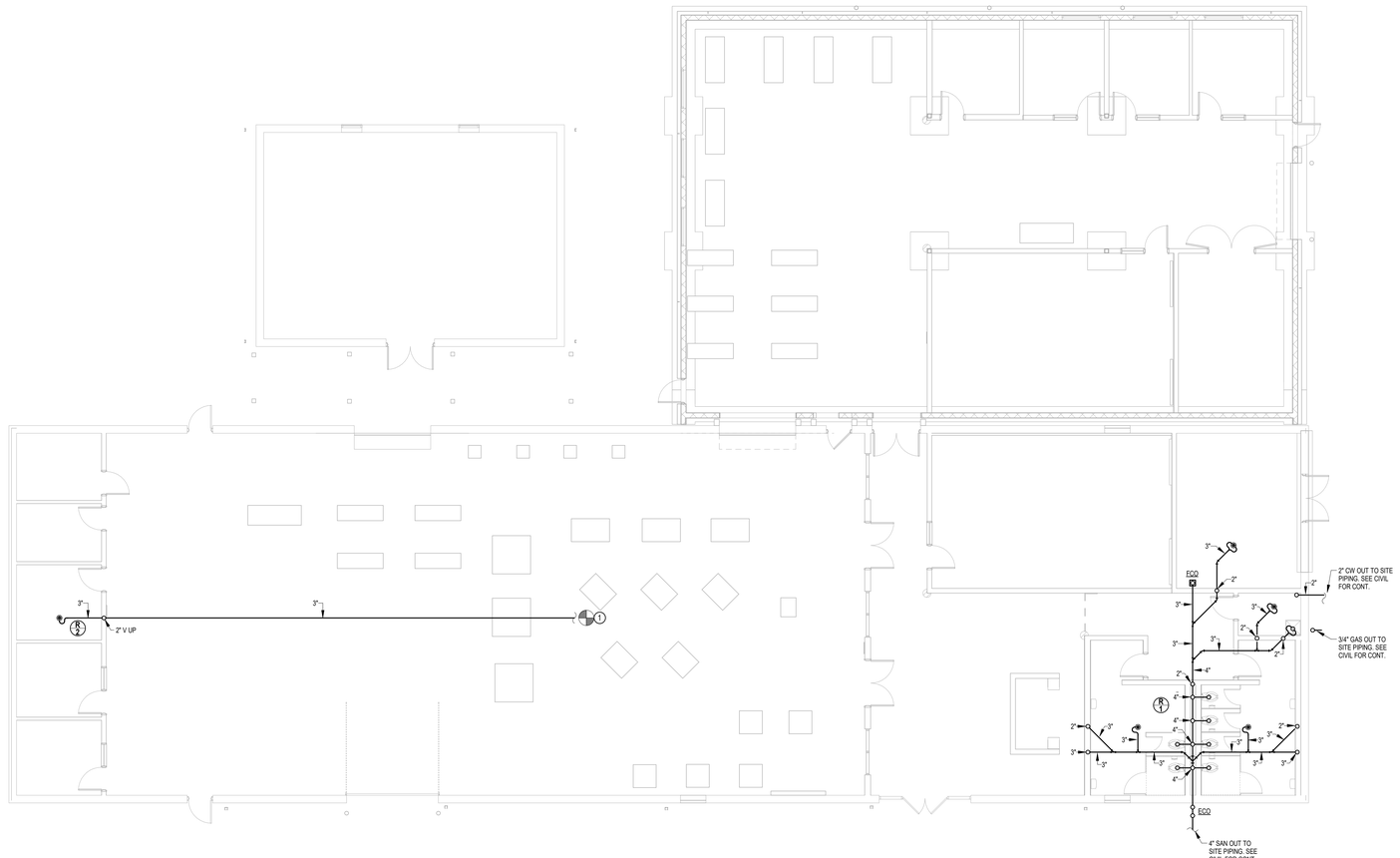
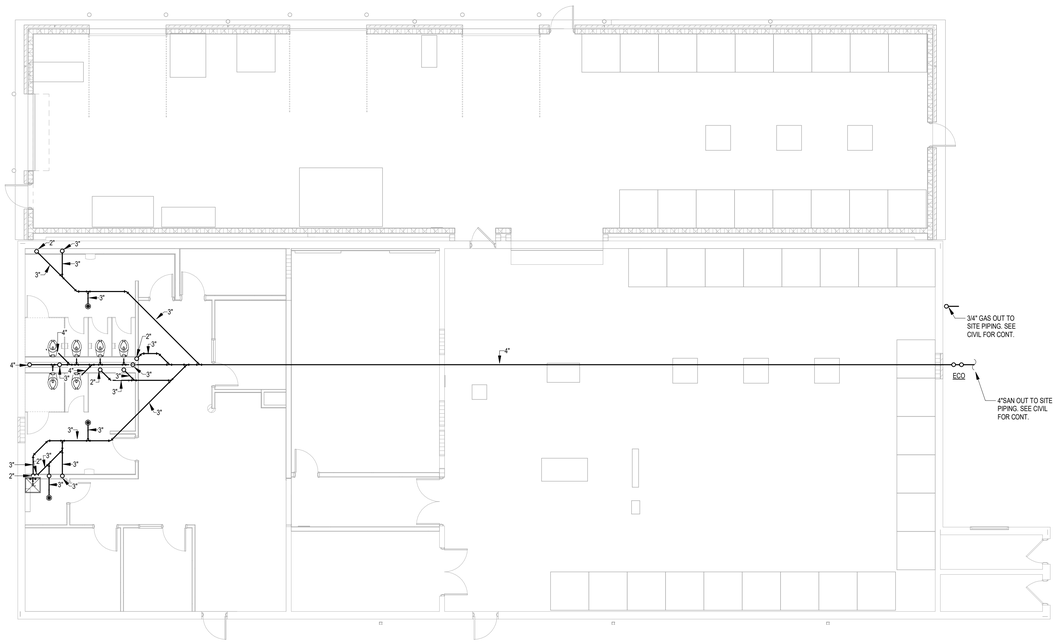



PLAN NORTH | TRUE NORTH

## 2 BUILDING 700 - FOUNDATION - PLUMBING
SCALE: 1/8" = 1'-0"




PLAN NORTH | TRUE NORTH

## 1 BUILDING 300 - FOUNDATION - PLUMBING
SCALE: 1/8" = 1'-0"

## KEYED NOTES - NON-PRESSURE

1. ROUTE NEW 3" SAN. AND CONNECT TO EXISTING SAN BELOW SLAB. VERIFY THE EXACT SIZE AND LOCATION PRIOR TO BEGINNING CONSTRUCTION.

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**FOUNDATION PLUMBING PLANS**

P1.02

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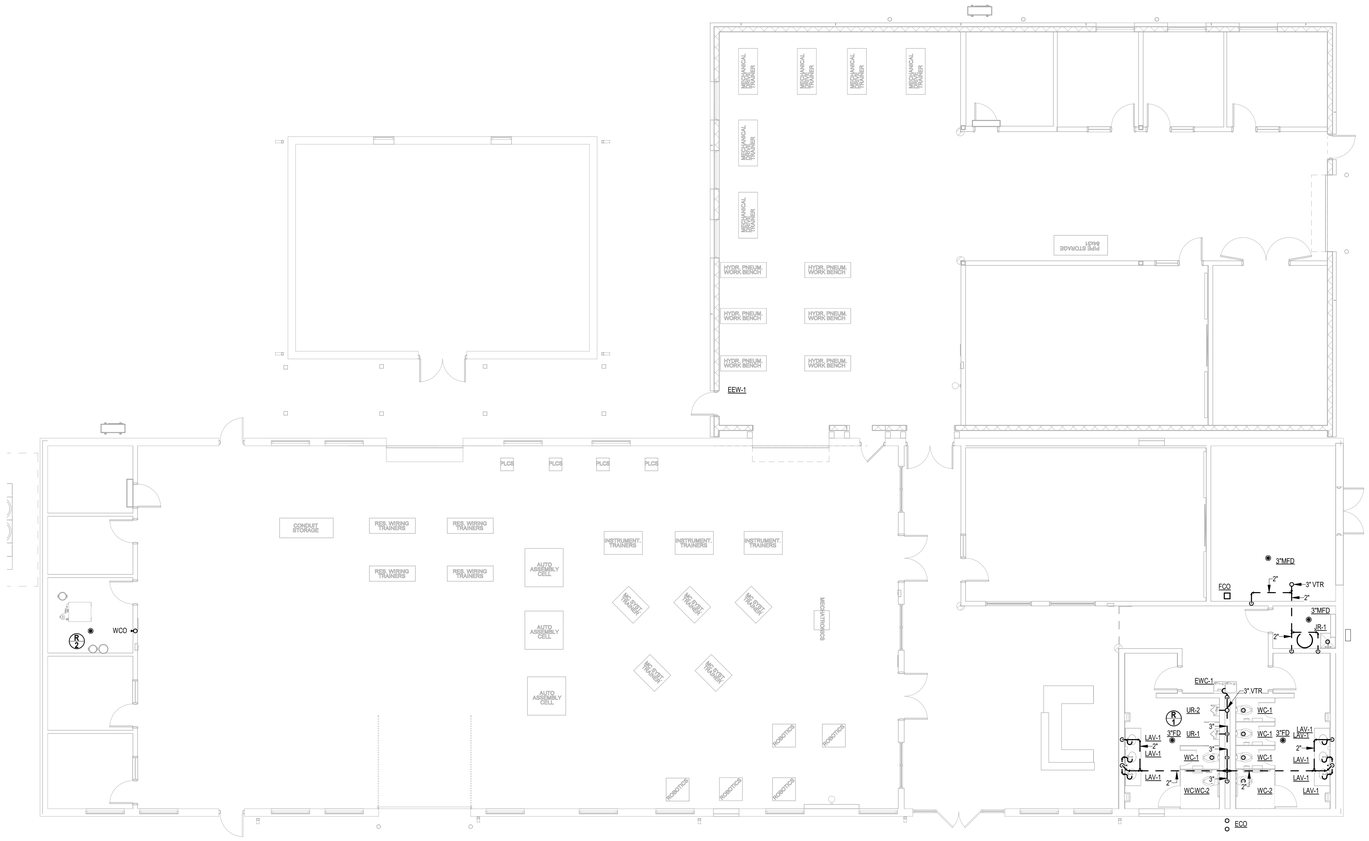
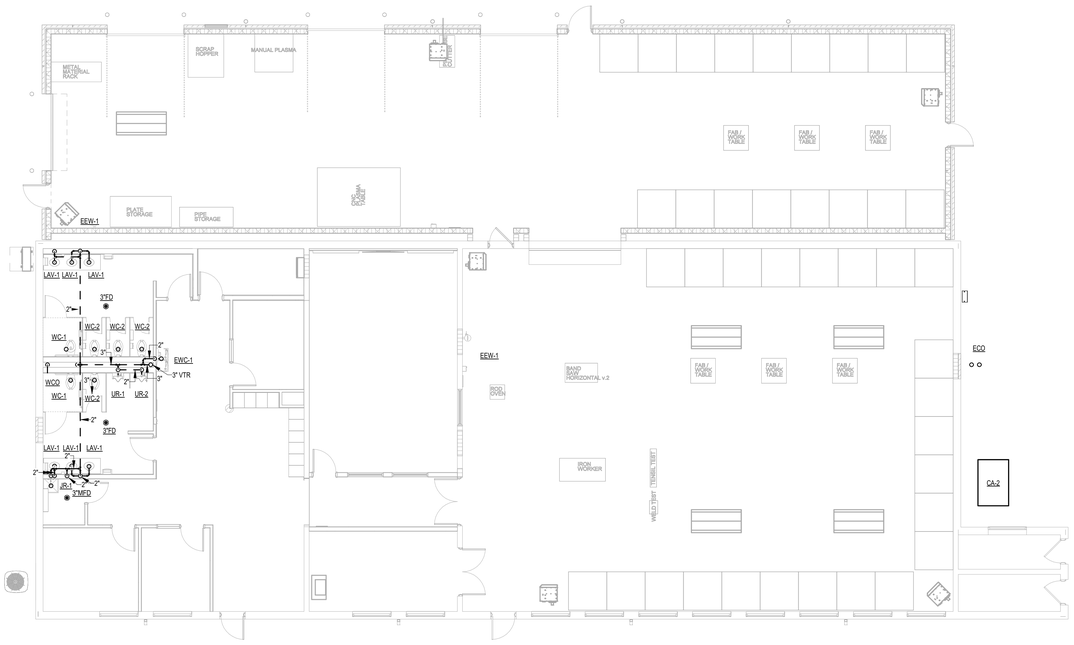



PLAN NORTH TRUE NORTH

## 2 BUILDING 700 - NON-PRESSURE PLUMBING
SCALE: 1/8" = 1'-0"




PLAN NORTH TRUE NORTH

## 1 BUILDING 300 - NON-PRESSURE PLUMBING
SCALE: 1/8" = 1'-0"

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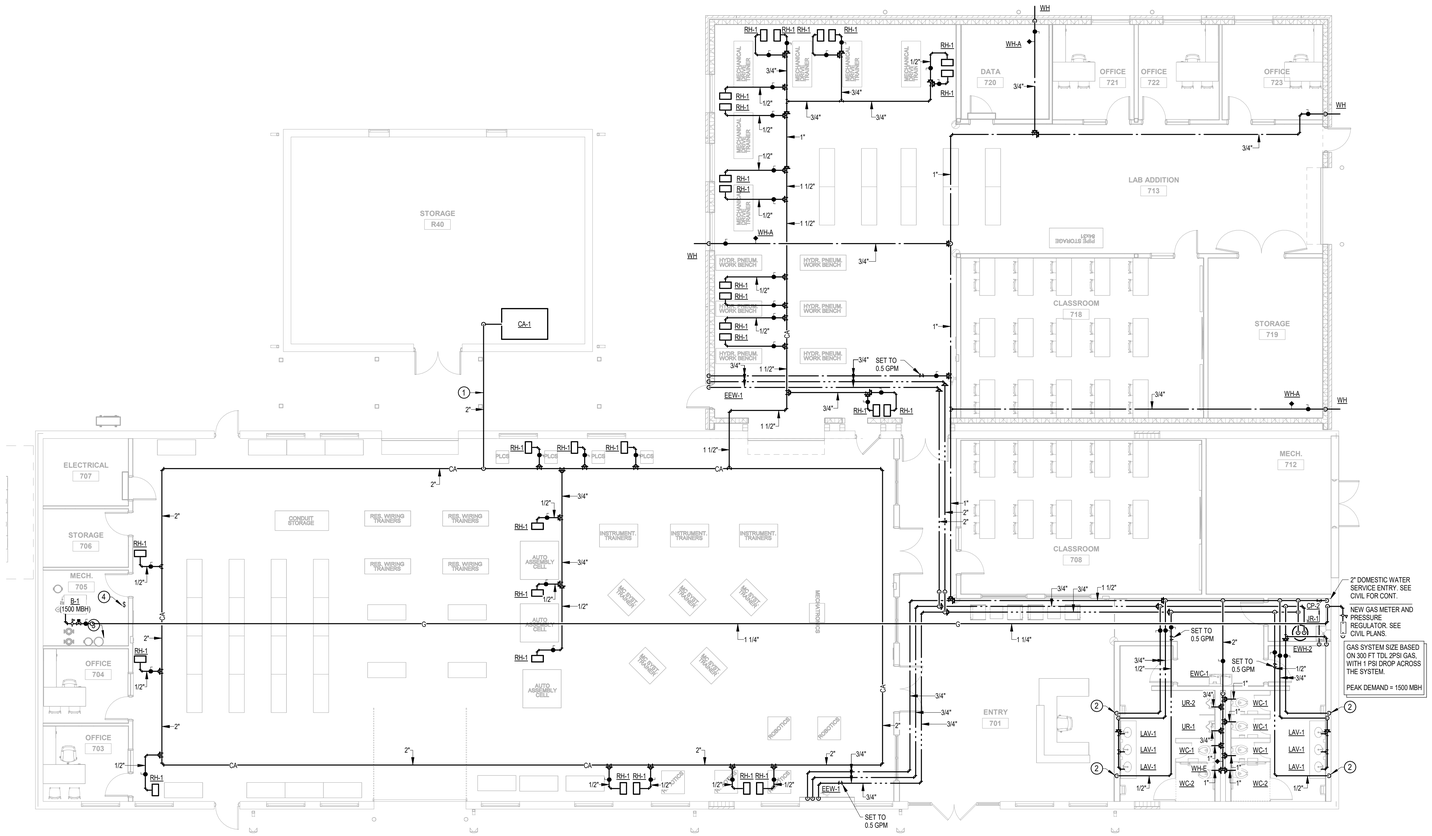
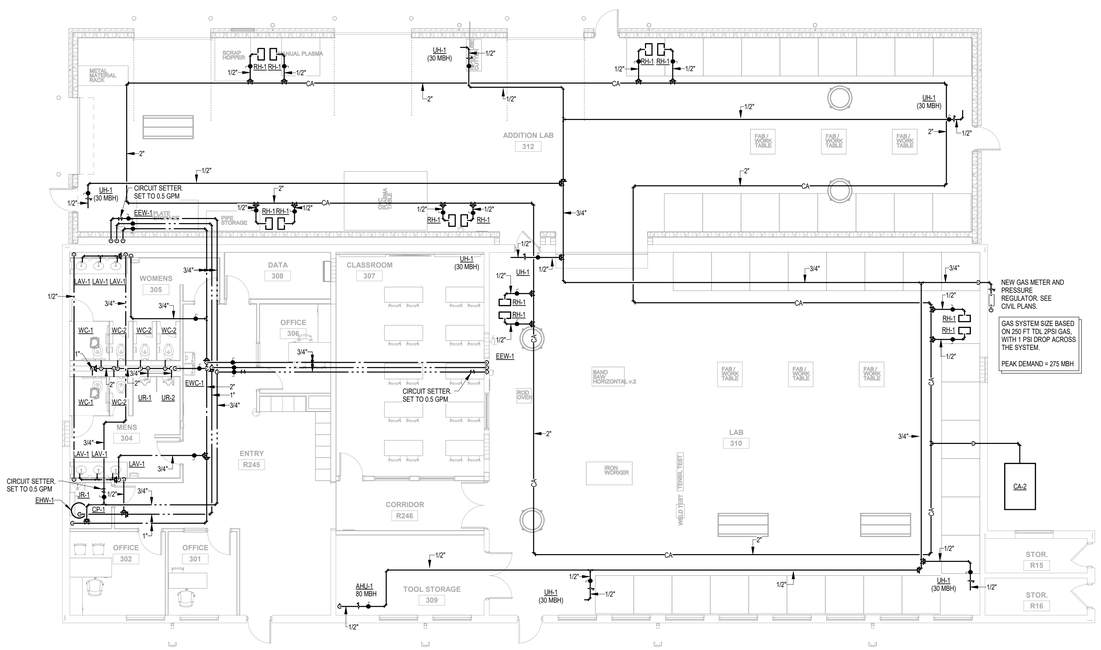
**NON-PRESSURE PLUMBING PLANS**

P1.03

5/27/2026 2:50:50 PM TEMPLATE VERSION: 2025.1




PLAN NORTH TRUE NORTH **P2 BUILDING 700 - PRESSURE PLUMBING**
SCALE: 1/8" = 1'-0"




PLAN NORTH TRUE NORTH **P1 BUILDING 300 - PRESSURE PLUMBING**
SCALE: 1/8" = 1'-0"

## KEYED NOTES - PRESSURE

1. ROUTE CA PIPING SHOWN OUTSIDE OF BUILDING ABOVE GRADE AND AS HIGH AS POSSIBLE.
2. ROUTE HW LOOP IN WALL TO WITHIN 2 FT OF FIXTURE STOP TO MEET ENERGY CODE
3. AUTOMATIC GAS SHUT OFF VALVE FOR MECHANICAL BOILER. COORDINATE WITH HVAC.
4. AUTOMATIC GAS SHUT DOWN SWITCH. MUST BE LOCATED AT EXIT.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**PRESSURE PLUMBING PLANS**

P1.04

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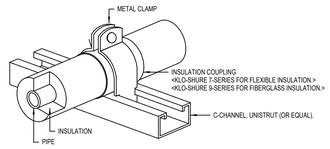
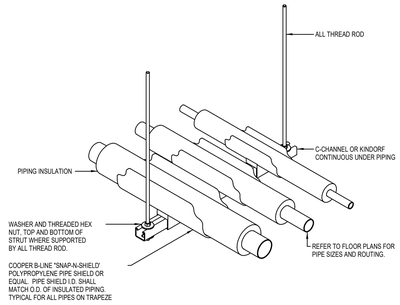
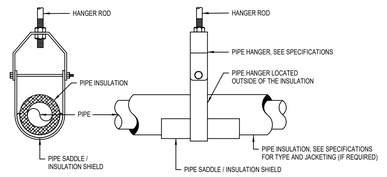



DETAIL NOTES:
1. FOR STRUT-MOUNTED, 4-INCH AND SMALLER, COPPER PIPING WITH <FOAMED PLASTIC (ARMAFLEX)> OR <FIBERGLASS> INSULATION.
2. ALLOWED FOR HORIZONTAL OR VERTICAL INSTALLATION.
3. SECURE ANCHOR C-CHANNEL TO ADJACENT SURFACES OR RAILS/POSTS.
4. FOR COLD PIPE APPLICATIONS, APPLY ADHESIVE TO END OF FOAMED PLASTIC INSULATION PRIOR TO INSERTING INTO THE COUPLING.

4 P5.01 **DETAIL OF STRUT MOUNTED PIPING SUPPORT**
NO SCALE

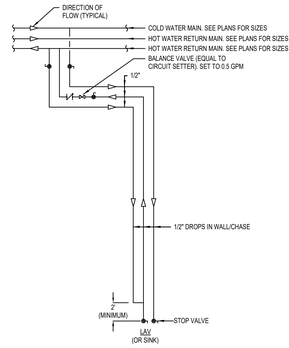



3 P5.01 **DETAIL OF TRAPEZE SUPPORT**
NO SCALE

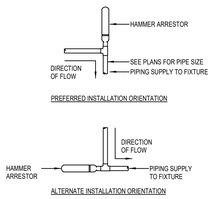



DETAIL NOTES:
1. PROVIDE FIBER GLASS INSULATION FOR THE FOLLOWING SYSTEMS
DOMESTIC COLD WATER
DOMESTIC HOT WATER
DOMESTIC HOT WATER RETURN
STORM PIPING
EXPOSED (ABOVE GROUND) SANITARY/WASTE PIPING RECEIVING CONDENSATE FROM REFRIGERATION EQUIPMENT OR TEMPERATURES ABOVE 120°F
2. PIPING EXPOSED TO FREEZING CONDITIONS (40°F OR COLDER) IS REQUIRED TO BE HEAT TRACED AND THEN INSULATED. COORDINATE HEAT TRACING WITH ELECTRICAL.

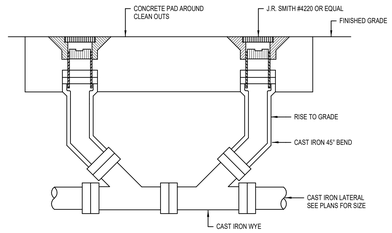
2 P5.01 **DETAIL OF CLEVIS HANGER**
NO SCALE



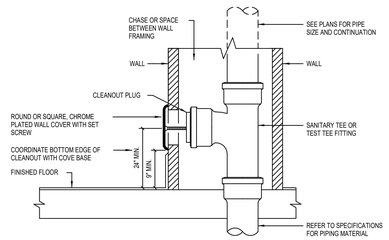

1 P5.01 **DETAIL OF ENERGY CODE COMPLAINT SUPPLY TO LAVATORY/SINK**
NO SCALE



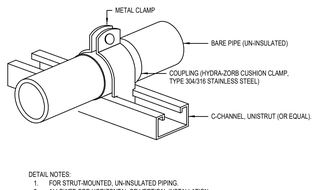

8 P5.01 **DETAIL OF HAMMER ARRESTOR**
NO SCALE




7 P5.01 **DETAIL OF EXTERIOR CLEANOUT TO GRADE**
NO SCALE

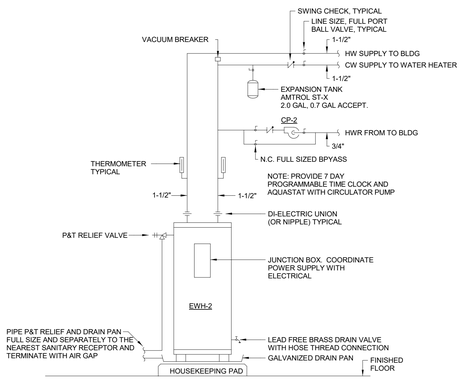



6 P5.01 **DETAIL OF WALL CLEANOUT**
NO SCALE

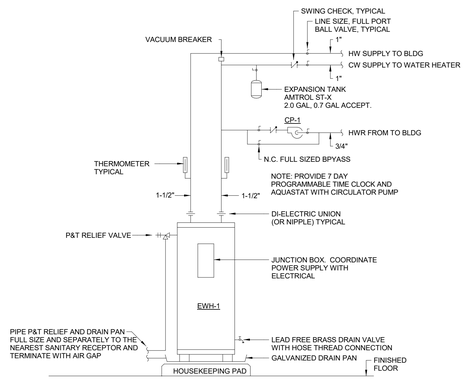



DETAIL NOTES:
1. FOR STRUT-MOUNTED, UN-INSULATED PIPING.
2. ALLOWED FOR HORIZONTAL OR VERTICAL INSTALLATION.
3. SECURE ANCHOR C-CHANNEL TO ADJACENT SURFACES OR RAILS/POSTS.

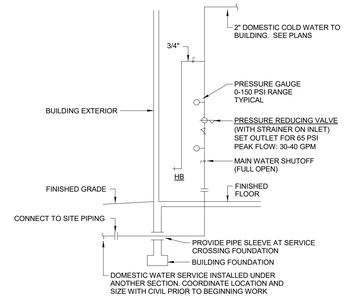
5 P5.01 **DETAIL OF STRUT MOUNTED PIPING SUPPORT**
NO SCALE




11 P5.01 **DETAIL of PIPING at EWH-2**
NO SCALE




10 P5.01 **DETAIL of PIPING at EWH-1**
NO SCALE




9 P5.01 **DETAIL of WATER SERVICE ENTRANCE**
NO SCALE

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PROFESSIONAL
ENGINEER
JAMES S. DAVIS, JR.
05/27/26
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**PLUMBING DETAILS**

P5.01

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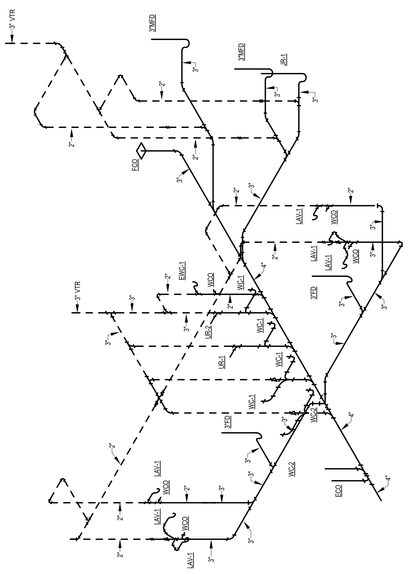
4" VTR
3" VTR
3" VTR
3

# GAS RISER DIAGRAMS

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**P9.02**

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## 1 BLDG 700 GAS RISER
SCALE:

## 2 BLDG 300 GAS RISER
SCALE:

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## GENERAL ELECTRICAL LEGEND

NORMAL EMERGENCY

FIXTURE OUTLET - SURFACE OR PENDANT MOUNTED LIGHT FIXTURE.

FIXTURE OUTLET - RECESSED LIGHT FIXTURE.

FIXTURE OUTLET - LINEAR - SURFACE OR PENDANT MOUNTED LIGHT FIXTURE.

FIXTURE OUTLET - LINEAR - RECESSED LIGHT FIXTURE.

FIXTURE OUTLET - WALL MOUNTED LIGHT FIXTURE.

FIXTURE OUTLET - BOLLARD OR POST-TOP LIGHT FIXTURE.

FIXTURE OUTLET - FLOODLIGHT OR SPOT LIGHT FIXTURE - ORIENTATION INDICATES GENERAL DIRECTION OF ILLUMINATION.

FIXTURE OUTLET - POLE LIGHT FIXTURE - QUANTITY AND ORIENTATION(S) OF LUMINAIRES AS INDICATED ON PLANS.

OR FIXTURE OUTLET - EXIT SIGN - CEILING OR WALL MOUNTED AS INDICATED - QUANTITY AND ORIENTATION OF FACES AND DIRECTIONAL ARROWS AS INDICATED.

FIXTURE OUTLET DESIGNATIONS:

A FIXTURE TYPE "A" - MAY BE USED WITH OTHER TYPES.
b SWITCH LEG TO WHICH FIXTURE IS CONNECTED - MAY BE USED WITH OTHER LOWER-CASE LETTERS.
2 CIRCUIT NUMBER - MAY BE USED WITH OTHER NUMBERS.
NL NIGHT LIGHT - DO NOT SWITCH.

$ SWITCH OUTLET - S.P.S.T. - 20A - 120-277VAC.

$3 SWITCH OUTLET - 3 WAY - 20A - 120-277VAC.

$4 SWITCH OUTLET - 4 WAY - 20A - 120-277VAC.

$a SWITCH OUTLET - CONTROLS OUTLET "a", ETC.

$L LIGHTING CONTROL SYSTEM - SWITCH OUTLET - LOW VOLTAGE - DIGITAL - BUTTONS AS REQUIRED FOR INDEPENDENT ON/OFF CONTROL OF EACH ZONE IN SPACE - CONNECT TO ASSOCIATED ROOM CONTROLLER PER DIAGRAM "E-RC".

$D LIGHTING CONTROL SYSTEM - SWITCH OUTLET - LOW VOLTAGE - DIGITAL - BUTTONS AS REQUIRED FOR INDEPENDENT DIMMING AND ON/OFF CONTROL OF EACH ZONE IN SPACE - CONNECT TO ASSOCIATED ROOM CONTROLLER PER DIAGRAM "E-RC".

$O SWITCH OUTLET - OCCUPANCY SENSOR WITH MANUAL OVERRIDE - S.P.S.T. - 120-277VAC - P.I.R. SENSOR - WATTSTOPPER PW-100 OR EQUAL - RATED 800W AT 120VAC AND 1200W AT 277VAC - GREY WITH STAINLESS STEEL COVERPLATE.

$X SWITCH OUTLET - MANUAL MOTOR STARTER - TOGGLE TYPE - 2 POLE - SQUARE "D" TYPE K01 WITH ENCLOSURE AS REQUIRED BY APPLICATION - PROVIDE LOCK-OFF HARDWARE.

$3X SWITCH OUTLET - MANUAL MOTOR STARTER - TOGGLE TYPE - 3 POLE - SQUARE "D" TYPE K02 WITH ENCLOSURE AS REQUIRED BY APPLICATION - PROVIDE LOCK-OFF HARDWARE.

LV PHOTOELECTRIC CONTROL - LOW VOLTAGE - COMPATIBLE WITH LIGHTING CONTROL PANEL - MOUNT UNDER SOFFIT OR ON ROOF FACING NORTH.

S SIGNAGE OULET - WALL-MOUNTED IN CONCEALED LOCATION - CONTRACTOR SHALL PROVIDE ALL MATERIAL AND LABOR FOR A FULLY-FUNCTIONAL SIGNAGE SYSTEM COMPLETE WITH LOCAL DISCONNECTS AND OTHER PROVISIONS PER N.E.C. ARTICLE 600 REQUIREMENTS. EXACT CIRCUIT QUANTITIES, VOLTAGES AND LOCATIONS SHALL BE COORDINATED BY THE CONTRACTOR WITH THE SIGNAGE SUPPLIER PRIOR TO ROUGH-IN.

WH TS TIME SWITCH - 120VAC - FURNISHED BY PLUMBING CONTRACTOR - ELECTRICAL CONTRACTOR SHALL PROVIDE 120VAC POWER AND SHALL CONNECT TO WATER HEATER CIRCULATION PUMP FOR OFF-HOURS SHUTOFF AS DIRECTED BY PLUMBING CONTRACTOR.

LIGHTING CONTROL PANEL.

OR LIGHTING CONTROL SYSTEM - OCCUPANCY SENSOR - CEILING OR WALL MOUNTED AS INDICATED - EXACT MOUNTING PROVISIONS, SENSOR TYPE AND LOCATION SHALL BE AS DIRECTED BY SUPPLIER FOR PROPER COVERAGE - DIGITAL - DUAL TECHNOLOGY (P.I.R. AND ULTRASONIC) - WATTSTOPPER LMDC-100 (CENTER OF CEILING MOUNT) OR LMDX-100 (WALL OR CEILING CORNER MOUNT) - CONNECT TO ASSOCIATED ROOM CONTROLLER PER DIAGRAM "E-RC".

R LIGHTING CONTROL SYSTEM - ON/OFF ROOM CONTROLLER(S) - LOW VOLTAGE - WATTSTOPPER LMRC-102 - MOUNT AS DIRECTED BY SUPPLIER ABOVE ACCESSIBLE CEILING - PROVIDE ALL INTERCONNECTIONS (LOW VOLTAGE AND LINE VOLTAGE) TO SENSORS, CONTROL SWITCHES, LIGHT FIXTURES, ETC. TO CONTROL LOCAL LIGHTING AS DIRECTED BY SUPPLIER - SEE DETAIL "E-RC".

RD LIGHTING CONTROL SYSTEM - DIMMING ROOM CONTROLLER(S) - LOW VOLTAGE - WATTSTOPPER LMRC-212 - MOUNT AS DIRECTED BY SUPPLIER ABOVE ACCESSIBLE CEILING - PROVIDE ALL INTERCONNECTIONS (LOW VOLTAGE AND LINE VOLTAGE) TO SENSORS, CONTROL SWITCHES, LIGHT FIXTURES, ETC. TO CONTROL LOCAL LIGHTING AS DIRECTED BY SUPPLIER - SEE DETAIL "E-RC".

RN LIGHTING CONTROL SYSTEM - NETWORKED ON/OFF ROOM CONTROLLER(S) - LOW VOLTAGE - WATTSTOPPER LMRC-102 - MOUNT AS DIRECTED BY SUPPLIER ABOVE ACCESSIBLE CEILING - PROVIDE ALL INTERCONNECTIONS (LOW VOLTAGE AND LINE VOLTAGE) TO SENSORS, CONTROL SWITCHES, LIGHT FIXTURES, ETC. TO CONTROL LOCAL LIGHTING AND TO NETWORK TO CENTRAL LIGHTING CONTROL SYSTEM AS DIRECTED BY SUPPLIER - SEE DETAIL "E-RC".

RDN LIGHTING CONTROL SYSTEM - NETWORKED DIMMING ROOM CONTROLLER(S) - LOW VOLTAGE - WATTSTOPPER LMRC-212 - MOUNT AS DIRECTED BY SUPPLIER ABOVE ACCESSIBLE CEILING - PROVIDE ALL INTERCONNECTIONS (LOW VOLTAGE AND LINE VOLTAGE) TO SENSORS, CONTROL SWITCHES, LIGHT FIXTURES, ETC. TO CONTROL LOCAL LIGHTING AND TO NETWORK TO CENTRAL LIGHTING CONTROL SYSTEM AS DIRECTED BY SUPPLIER - SEE DETAIL "E-RC".

INV1 EMERGENCY LIGHTING INVERTER - 125W - VOLTAGE AS REQUIRED BY APPLICATION - ISOLITE E3MINI-125-LC - CONNECT AS REQUIRED TO SWITCH OUTPUT WITH SWITCHED INPUT WHERE APPLICABLE.

DUPLEX DOUBLE DUPLEX

WALL OUTLET - RECEPTACLE - 20A - 125V - 2P - 3W - GROUNDING - NEMA 5-20R - SINGLE PLATE - ENGRAVE NAMEPLATE PER DETAIL "E-RI".

WALL OUTLET - RECEPTACLE - 20A - 125V - 2P - 3W - GROUNDING - "GFI" TYPE - WEATHER RESISTANT - NEMA 5-20R - SINGLE PLATE - ENGRAVE NAMEPLATE PER DETAIL "E-RI".

WALL OUTLET - RECEPTACLE - 20A - 125V - 2P - 3W - GROUNDING - NEMA 5-20R WITH ONE (1) TYPE A USB PORT AND ONE (1) TYPE C USB PORT FOR EVERY ONE DUPLEX (1) RECEPTACLE - SINGLE PLATE - ENGRAVE NAMEPLATE PER DETAIL "E-RI".

WALL OUTLET - SINGLE RECEPTACLE - 15A - 125V - 2P - 3W - GROUNDING - CLOCK OUTLET - HUBBELL HBL5235.

WALL OUTLET - SINGLE RECEPTACLE - GROUNDING - MELTRIC DSN SERIES SWITCH RATED PLUG AND RECEPTACLE - FURNISH WITH METAL 30 DEGREE ANGLE ACCESSORY (WHERE WALL MOUNTED ONLY) AND ALL MISCELLANEOUS ACCESSORIES AS NECESSARY FOR A COMPLETE INSTALLATION - ELECTRICAL RATINGS AS REQUIRED BY APPLICATION (TO MATCH CIRCUIT RATINGS) - PROVIDE "SOOW" CORD & PLUG ON EQUIPMENT TO MATCH RECEPTACLE.

WALL OUTLET - SINGLE RECEPTACLE - TWISTLOCK - 30A - 125/250V - 3P - 4W - GROUNDING - NEMA L14-30R - PROVIDE "SOOW" CORD & PLUG ON EQUIPMENT TO MATCH RECEPTACLE - ENGRAVE NAMEPLATE PER DETAIL "E-RI".

WALL OUTLET - SINGLE RECEPTACLE - 30A - 125V - 2P - 3W - GROUNDING - NEMA 5-30R - ENGRAVE NAMEPLATE PER DETAIL "E-RI".

CONTROL STATION - AS DIRECTED BY ASSOCIATED EQUIPMENT SUPPLIER - INSTALLED BY ELECTRICAL CONTRACTOR - FURNISH WIRING AS REQUIRED IN CONDUIT SIZED AS REQUIRED TO CONTROLLED DEVICE - VERIFY REQUIREMENTS WITH EQUIPMENT SUPPLIER PRIOR TO ROUGH-IN.

SHUNT-TRIP OPERATOR - EMERGENCY STOP PUSH BUTTON - 60mm DIAMETER, RED, MUSHROOM-STYLE, MAINTAINED-CONTACT (TRIGGER ACTION, TURN-TO-RELEASE) EMERGENCY STOP PUSH BUTTON AND 90mm DIAMETER, YELLOW CIRCULAR BACKGROUND WITH LETTERING TO READ "EMERGENCY STOP" - PROVIDE WITH CLEAR PROTECTIVE COVER - PUSH "IN" TO SHUNT TRIP ASSOCIATED BREAKERS - PROVIDE CONTACTS AS REQUIRED FOR SHUTDOWN - SQUARE "D" OR EQUAL - LABEL WITH RED ENGRAVED NAMEPLATE WITH WHITE LETTERING TO IDENTIFY FUNCTION.

"V"D COMMUNICATIONS OUTLET - SEE DETAIL "E-CO" - "V"D REPRESENTS REQUIRED COMMUNICATIONS JACK CONFIGURATIONS.

"D WIRELESS ACCESS POINT - ABOVE CEILING OR AT EXPOSED OVERHEAD STRUCTURE - PROVIDE OUTLET BOX ABOVE ACCESSIBLE CEILING OR AT EXPOSED OVERHEAD STRUCTURE WITH 1"C TO ABOVE NEAREST ACCESSIBLE CEILING FOR OWNER-PROVIDED DATA SYSTEM WIRELESS ACCESS POINT - WITH DATA CABLE(S) (AS INDICATED BY "D" DESIGNATION PER COMMUNICATIONS OUTLET LEGEND AT DETAIL "E-CO") TO RACK WITHIN NEAREST TELECOMM EQUIPMENT ROOM - TERMINATE CABLE AT PATCH PANEL WITHIN EQUIPMENT ROOM AND LEAVE 10'-0" SLACK CABLE NEATLY COILED ABOVE CEILING AT LOCATION OF ACCESS POINT.

TELEPHONE BACKBOARD - 8' H x 3/4" THICK x LENGTH AS SHOWN ON PLANS - SEE DETAIL "E-MSG" - FINISH WITH TWO (2) COATS FIRE-RETARDANT ENAMEL PAINT - PAINT COLOR TO MATCH SURROUNDING WALLS.

"V"D COMMUNICATIONS CABLING - "V"D REPRESENTS REQUIRED COMMUNICATIONS CABLING (SEE LEGEND AT DETAIL "E-CO") - PROVIDE CONDUIT SIZED PER NEC IN INACCESSIBLE SPACES.

"V"D COMMUNICATIONS CABLING - HOMERUN TO NEAREST COMMUNICATIONS BACKBOARD, RACK OR CABINET AS APPLICABLE - "V"D REPRESENTS REQUIRED COMMUNICATIONS CABLING (SEE LEGEND AT DETAIL "E-CO") - PROVIDE CONDUIT SIZED PER NEC IN INACCESSIBLE SPACES.

OUTLET INSTALLATION DESIGNATIONS (APPLY TO ALL OUTLETS, DEVICES & EQUIPMENT):

A ABOVE COUNTER - OUTLET SHALL BE MOUNTED 6 INCHES ABOVE DESK/COUNTERTOP, OR 4 INCHES ABOVE COUNTERTOP BACKSPLASH AS REQUIRED BY CONDITION, OR 48" A.F.F. OR AS NOTED. ALL OUTLETS MOUNTED ABOVE COUNTER SHALL BE INSTALLED IN A HORIZONTAL ORIENTATION.

C OUTLET MOUNTED FLUSH WITHIN CEILING - VERIFY EXACT LOCATIONS PRIOR TO ROUGH-IN.

CP OUTLET MOUNTED TO CORD PENDANT - APPLETON FS/FD CAST BOX (AT STRUCTURE ABOVE AND AT OUTLET BOX) WITH APPLETON #CG STRAIN RELIEF CORD CONNECTOR AT EACH END OF HEAVY-DUTY "SOOW" CORD PENDANT - MOUNT RECEPTACLE AT 30" A.F.F. AND PROVIDE WITH 24" SERVICE LOOP AT RECEPTACLE END.

CPR OUTLET MOUNTED TO INDUSTRIAL CORD REEL - FOR 20A-120V OR 20A-208V-1PH CIRCUITS PROVIDE HUBBELL HBLW45123W INDUSTRIAL CORD REEL (AT STRUCTURE ABOVE) WITH 12/3 SOW PENDANT CABLE (45' MINIMIMUM) TO OUTLET BOX (AT END OF CABLE) WITH RECEPTACLE TYPE (GFCI, ETC.) AS INDICATED ON PLANS. FOR 20A-208V-3PH AND 2-CIRCUIT 20A-120V (WITH A SHARED NEUTRAL) CIRCUITS PROVIDE HUBBELL HBLW40124W INDUSTRIAL CORD REEL (AT STRUCTURE ABOVE) WITH 12/4 SOW PENDANT CABLE (40' MINIMIMUM) TO OUTLET BOX (AT END OF CABLE) WITH RECEPTACLE TYPE (GFCI, ETC.) AS INDICATED ON PLANS.

CW INSTALL OUTLET WITHIN CASEWORK AND ROUTE CIRCUITRY (IN CONDUIT) WITHIN CASEWORK AS DIRECTED BY CASEWORK PROVIDER.

VL VERIFY EXACT OUTLET LOCATION WITH OWNER PRIOR TO ROUGH-IN.

W WEATHER PROOF - OUTLET SHALL BE INSTALLED WITH WEATHERPROOF, IN-USE, CAST COVER.

WG WIREGUARD - EQUIPMENT AND DEVICES SHALL BE PROVIDED WITH FACTORY FURNISHED WIREGUARD.

EQUIPMENT OUTLET DESIGNATIONS (APPLY TO ALL OUTLETS, DEVICES & EQUIPMENT):

DF DRINKING FOUNTAIN OUTLET - EXACT MOUNTING HEIGHT AS DIRECTED BY EQUIPMENT SUPPLIER.

DW BELOW COUNTER DISHWASHER OUTLET - VERIFY EXACT LOCATION AND REQUIREMENTS WITH EQUIPMENT SUPPLIER.

IM ICE MAKER OUTLET - VERIFY EXACT LOCATION WITH ARCHITECTURAL ELEVATION PRIOR TO ROUGH-IN.

MW MICROWAVE (OR COMBINATION MICROWAVE/VENTILATION HOOD) OUTLET - VERIFY EXACT LOCATION WITH ARCHITECTURAL ELEVATION PRIOR TO ROUGH-IN.

RF REFRIGERATOR/FREEZER OUTLET - MOUNT AT 36" A.F.F. UNLESS DIRECTED OTHERWISE BY EQUIPMENT SUPPLIER.

TV TELEVISION OUTLET - MOUNTING HEIGHT AS DIRECTED BY ARCHITECT.

FLOOR OR SURFACE-MOUNTED OUTLET - JUNCTION BOX - CAST METAL - CROUSE HINDS TYPE FS/FD BOX.

WALL OUTLET - JUNCTION BOX - FLUSH MOUNTED.

CEILING OUTLET - JUNCTION BOX.

BRANCH/FEEDER CIRCUIT - CONCEALED IN WALLS OR CEILING.

BRANCH/FEEDER CIRCUIT - EXPOSED ON WALLS OR CEILING.

BRANCH/FEEDER CIRCUIT - CONCEALED IN FLOOR SLAB OR DIRT FILL.

BRANCH/FEEDER CIRCUIT - OVERHEAD BETWEEN POLES.

BRANCH/FEEDER CIRCUIT - HOMERUN - CAN BE USED WITH OTHER BRANCH/FEEDER TYPES.

BRANCH/FEEDER CIRCUIT MODIFIERS:

———— : 2#12 & 1#12G UNLESS NOTED OTHERWISE.

— // — : 3#12 & 1#12G, ETC. UNLESS NOTED OTHERWISE (TICK MARKS INDICATE CONDUCTOR QUANTITY NOT INCLUDING GROUND WIRE).

——10—— : 2#10 & 1#10G UNLESS NOTED OTHERWISE (NUMBER INDICATES WIRE AWG).

SIZE CONDUIT PER N.E.C. UNLESS INDICATED OTHERWISE.

OHS OVERHEAD SECONDARY POWER SERVICE CABLING (WITH TELECOMMUNICATIONS CABLING WHERE APPLICABLE).

POWER/TELECOMMUNICATIONS POLE WITH GUYING AS REQUIRED.

FLEXIBLE CONNECTION TO EQUIPMENT.

BRANCH CIRCUIT - RISER DOWN OR GENERAL CONDUIT STUB-OUT.

CONDUIT - SIZE AND QUANTITY AS NOTED ON THE PLANS - STUBBED OUT AT CABLE TRAY OR ABOVE ACCESSIBLE CEILING - WITH PLASTIC BUSHING ON ENDS.

POWER DISTRIBUTION EQUIPMENT.

LIGHTING PANEL - SURFACE MOUNTED.

LIGHTING PANEL - FLUSH MOUNTED.

T TRANSFORMER - POWER.

MOTOR STARTER.

VFD VARIABLE FREQUENCY DRIVE.

DISCONNECT SWITCH - NONFUSED.

DISCONNECT SWITCH - FUSED.

CIRCUIT BREAKER.

GROUND CONNECTION.

VAV VAV BOX - 120V - 1Ø.

M MOTOR OUTLET - SIZE AS SHOWN.

OVERHEAD DOOR OPERATOR - INCLUDE ALL CONNECTIONS IN CONDUIT FOR POWER AND CONTROL (PHOTOEYES, CONTROL STATIONS, IN-GROUND LOOP DETECTORS, SENSORS, ETC.) AS DIRECTED BY SUPPLIER - PROVIDE WITH DISCONNECT SWITCH MOUNTED IN LOCATION AS DIRECTED BY OWNER - VERIFY EXACT REQUIREMENTS WITH EQUIPMENT SUPPLIER PRIOR TO ROUGH-IN.

CP CONDENSATE PUMP - 120V-1Ø - PROVIDE WITH LOCAL TOGGLE-TYPE MANUAL MOTOR STARTER DISCONNECT SWITCH.

CIR CIRCULATION PUMP - 120V-1Ø - PROVIDE WITH LOCAL TOGGLE-TYPE MANUAL MOTOR STARTER DISCONNECT SWITCH.

AD AUTOMATIC (MOTORIZED) DAMPER(S) - 120V-1Ø - VERIFY EXACT QUANTITIES, LOCATIONS & CONTROL INTERLOCK REQUIREMENTS WITH HVAC CONTRACTOR PRIOR TO ROUGH-IN - PROVIDE WITH LOCAL TOGGLE-TYPE MANUAL MOTOR STARTER DISCONNECT SWITCH.

TP TRAP PRIMER - 120V-1Ø - PROVIDE WITH LOCAL TOGGLE-TYPE MANUAL MOTOR STARTER DISCONNECT SWITCH.

FAAP FIRE ALARM - ANNUNCIATOR PANEL - FLUSH MOUNTED UNLESS INDICATED OTHERWISE - VERIFY EXACT LOCATION WITH LOCAL FIRE MARSHAL PRIOR TO ROUGH-IN.

FACP FIRE ALARM - CONTROL PANEL.

FIRE ALARM - PULL STATION.

SM FIRE ALARM - SMOKE DETECTOR.

H FIRE ALARM - HEAT DETECTOR.

CO FIRE ALARM - COMBINATION SMOKE/CARBON MONOXIDE DETECTOR WITH SOUNDER BASE FOR LOCAL ALARM - CONNECT TO FIRE ALARM SYSTEM AS A SUPERVISED DEVICE.

SDM FIRE ALARM - SMOKE DETECTOR - DUCT MOUNTED - LOCATE AS DIRECTED BY MECHANICAL - FURNISH CONTROL RELAY COMPATIBLE WITH FIRE ALARM SYSTEM FOR FAN SHUT DOWN - FURNISH TEST/ALARM INDICATOR STATION(S) LOCATED IN ACCESSIBLE, INCONSPICUOUS LOCATION AS APPROVED BY AUTHORITY HAVING JURISDICTION.

FSD FIRE ALARM - FIRE/SMOKE DAMPER (BY MECHANICAL) WITH DUCT-MOUNTED SMOKE DETECTOR (BY FIRE ALARM SUPPLIER) LOCATED AS DIRECTED BY MECHANICAL - FURNISH RELAY COMPATIBLE WITH FIRE ALARM SYSTEM AS DIRECTED BY MECHANICAL FOR CONTROL OF DAMPER - PROVIDE 120V POWER AS REQUIRED.

FS FIRE ALARM - FLOW SWITCH - VERIFY EXACT QUANTITIES AND LOCATIONS PRIOR TO ROUGH-IN.

TS FIRE ALARM - TAMPER SWITCH - VERIFY EXACT QUANTITIES AND LOCATIONS PRIOR TO ROUGH-IN.

FR FIRE ALARM - ADDRESSABLE CONTROL RELAY - FUNCTION AS INDICATED ON THE PLANS - PROVIDE INTERLOCK WIRING REQUIRED IN 3/4"C TO ASSOCIATED EQUIPMENT.

BDA FR FIRE ALARM - ADDRESSABLE CONTROL RELAY(S) - FOR MONITORING OF EMERGENCY RESPONDER COMMUNICATIONS ENHANCEMENT SYSTEM - PROVIDE INTERLOCK WIRING TO EMERGENCY RESPONDER RADIO COVERAGE SYSTEM AS REQUIRED IN 3/4"C - SEE EMERGENCY RESPONDER RADIO COVERAGE SYSTEM RISER DIAGRAM.

OR FIRE ALARM - COMBINATION HORN AND VISUAL INDICATOR - CEILING OR WALL MOUNTED AS INDICATED.

OR FIRE ALARM - VISUAL INDICATOR ONLY - CEILING OR WALL MOUNTED AS INDICATED.

W W OR W FIRE ALARM - COMBINATION HORN AND VISUAL INDICATOR - WEATHER-PROOF - CEILING OR WALL MOUNTED AS INDICATED - CANDELA RATING AS DIRECTED BY LOCAL FIRE MARSHAL.

F BRANCH CIRCUIT - FIRE ALARM - CABLING AS REQUIRED IN N.E.C.-SIZED CONDUIT.

1D 1D C OR C CCTV SURVEILLANCE SYSTEM - CEILING OR WALL-MOUNT AS INDICATED - PROVIDE 1"C TO ABOVE NEAREST ACCESSIBLE CEILING AND ONE (1) CAT6 CABLE TO LOCAL NVR/DVR - MOUNT TO CEILING OR APPROXIMATELY 12" BELOW CEILING/OVERHEAD STRUCTURE UNLESS NOTED OTHERWISE AS DIRECTED BY CCTV SYSTEM SUPPLIER FOR OPTIMAL COVERAGE OF APPLICABLE AREA.

CR ACCESS CONTROL SYSTEM - CARD READER - SEE DETAIL "E-AC".

CP ACCESS CONTROL SYSTEM - CARD READER POWER SUPPLY - SEE DETAIL "E-AC".

DC ACCESS CONTROL SYSTEM - DOOR CONTACT SWITCH - SEE DETAIL "E-AC".

BDA EMERGENCY RESPONDER COMMUNICATIONS ENHANCEMENT SYSTEM - BI-DIRECTIONAL AMPLIFIER - REFER TO EMERGENCY RESPONDER COMMUNICATIONS ENHANCEMENT SYSTEM RISER DIAGRAM AND SPECIFICATIONS.

DAP EMERGENCY RESPONDER SYSTEM - ANNUNCIATOR - FLUSH MOUNTED.

E EMERGENCY RESPONDER COMMUNICATIONS ENHANCEMENT SYSTEM - BRANCH CIRCUIT/ANTENNAS.

A E-1 DETAIL DESIGNATOR - "A" INDICATED DETAIL MARK - "E-1" INDICATED SHEET NUMBER WHERE DETAIL IS LOCATED (TYPICAL).

GENERAL ABBREVIATIONS:

EX EXISTING TO REMAIN.

EX-R EXISTING TO BE REMOVED - REMOVE ALL ASSOCIATED ELECTRICAL EQUIPMENT, DEVICES, CONDUIT AND WIRING CONNECTIONS TO OTHER ELECTRICAL ITEMS UNLESS SHOWN OTHERWISE.

EX-RL EXISTING TO BE RELOCATED - REMOVE ALL ASSOCIATED ELECTRICAL EQUIPMENT, DEVICES, CONDUIT AND WIRING AT EXISTING LOCATION. RELOCATE ITEM TO NEW LOCATION SHOWN ON ELECTRICAL PLANS. EXTEND AND RECONNECT EXISTING CONDUIT, WIRING, ETC. TO NEW LOCATION AS REQUIRED UNLESS SHOWN OTHERWISE.

EX-RP EXISTING TO BE REPLACED - EXTEND AND RECONNECT EXISTING CONDUIT AND WIRING TO REPLACED ITEM.

ELECTRICAL ABBREVIATIONS:

| | | | |
|---|---|---|---|
| A | AMPERES. | NSV | NEW, SPARE OR VACATED. |
| AIC | AMPERES INTERRUPTING CAPACITY. | OC | ON CENTER. |
| AFF | ABOVE FINISHED FLOOR. | P | POLES. |
| AL | ALUMINUM. | PF | POWER FACTOR. |
| ATS | AUTOMATIC TRANSFER SWITCH. | Ø | PHASE. |
| AWG | AMERICAN WIRE GAUGE. | PVC | POLYVINYL CHLORIDE. |
| C | CONDUIT. | | |
| CU | COPPER. | SLD | SINGLE LINE DIAGRAM. |
| EC | EMPTY CONDUIT. OR ELECTRICAL CONTRACTOR | SS | STAINLESS STEEL. |
| | | UL | UNDERWRITERS LABORATORY. |
| FPN | FUSE PER NAMEPLATE. | UNO | UNLESS NOTED OTHERWISE. |
| G | GROUND CONDUCTOR. | V | VOLTS |
| KVA | KILOVOLT-AMPERES. | W | WIRES. |
| KW | KILOWATT. | | |
| LV | LOW VOLTAGE. | CFCI | CONTRACTOR FURNISHED, CONTRACTOR INSTALLED. |
| MCM | THOUSAND CIRCULAR MILS. | | |
| MV | MEDIUM VOLTAGE. | CFOI | CONTRACTOR FURNISHED, OWNER INSTALLED. |
| N | NEUTRAL. | | |
| NEC | NATIONAL ELECTRICAL CODE. | OFOI | OWNER FURNISHED, OWNER INSTALLED. |
| NEMA | NATIONAL ELECTRICAL MANUFACTURER ASSOCIATION. | OFCI | OWNER FURNISHED, CONTRACTOR INSTALLED. |
| NIC | NOT IN CONTRACT. | | |

TYPICAL CIRCUITRY DESIGNATIONS:

2 SETS OF 4#3/0 & 1#3G - 2 1/2"C

- CONDUIT SIZE.
- GROUND CONDUCTOR WIRE GAUGE.
- QUANTITY OF GROUND CONDUCTORS (PER SET)
- PHASE/NEUTRAL CONDUCTOR WIRE GAUGE.
- QUANTITY OF PHASE/NEUTRAL CONDUCTORS (PER SET).
- QUANTITY OF PARALLEL SETS OF THE PHASE/NEUTRAL CONDUCTORS, GROUND CONDUCTOR AND CONDUIT SPECIFIED.

## GENERAL ELECTRICAL NOTES

1. CONTRACTOR SHALL VERIFY ALL REQUIREMENTS FOR POWER SERVICE WITH UTILITY COMPANY PRIOR TO SUBMITTING BID. IF THEIR REQUIREMENTS ARE AT A VARIANCE WITH THOSE SHOWN ON PLANS THE CONTRACTOR SHALL INFORM ARCHITECT IMMEDIATELY. ALL COSTS INCURRED WITH THE UTILITY COMPANY FOR SERVICE SHALL BE INCLUDED IN BID PRICE. IF SUCH COSTS ARE NOT AVAILABLE AT BID TIME CONTRACTOR SHALL INCLUDE WITH BID A LETTER FROM A RESPONSIBLE PARTY WITH THE UTILITY COMPANY STATING SUCH, AND COSTS WILL THEN BE EXCLUDED FROM THE BID PRICE.
2. ALL EQUIPMENT SHALL BE GROUNDED AND BONDED IN ACCORDANCE WITH NEC.
3. CONTRACTOR SHALL VISIT THE SITE OF THE WORK PRIOR TO SUBMITTING BID TO EXAMINE CAREFULLY LOCAL CONDITIONS AND DIFFICULTIES TO BE ENCOUNTERED. ANY DISCREPANCY BETWEEN PLANS AND EXISTING CONDITIONS SHALL IMMEDIATELY BE CALLED TO THE ATTENTION OF THE ARCHITECT.
4. THIS CONTRACTOR SHALL VERIFY EXACT REQUIREMENTS FOR ALL MECHANICAL EQUIPMENT FROM MANUFACTURER'S RECOMMENDATIONS PRIOR TO ROUGHING IN CONDUIT OR ORDERING CIRCUIT PROTECTION DEVICES. CONTRACTOR SHALL ADJUST CONDUIT SIZE, WIRE SIZE AND CIRCUIT PROTECTION SIZE ACCORDINGLY. IF REQUIREMENTS ARE LARGER THAN CALLED FOR ON ELECTRICAL PLANS NOTIFY ARCHITECT IMMEDIATELY.
5. THIS SCOPE OF THIS PROJECT INCLUDES THE INSTALLATION OF AN EMERGENCY RESPONDER COMMUNICATIONS ENHANCEMENT SYSTEM. AS PART OF THE BASE BID THE CONTRACTOR SHALL SURVEY THE NEW BUILDING(S) DURING CONSTRUCTION AS DIRECTED BY THE SYSTEM SUPPLIER TO DETERMINE THE EXACT AREAS OF THE NEW BUILDING(S) THAT REQUIRE AN EMERGENCY RESPONDER COMMUNICATIONS ENHANCEMENT SYSTEM (IF ANY). IF IT IS DETERMINED THAT AN EMERGENCY RESPONDER COMMUNICATIONS ENHANCEMENT SYSTEM IS REQUIRED, THEN IT WILL BE INSTALLED IN ACCORDANCE WITH SECTION 287800 OF THE SPECIFICATIONS. THE COST OF THE EMERGENCY RESPONDER COMMUNICATIONS ENHANCEMENT SYSTEM SHALL BE INCLUDED AS PART OF A PROJECT ALLOWANCE. REFER TO THE SPECIFICATIONS FOR ALL PROJECT ALLOWANCES. REFER TO THE "EMERGENCY RESPONDER COMMUNICATIONS ENHANCEMENT SYSTEM RISER DIAGRAM" FOR ADDITIONAL INFORMATION.
6. ALL OUTLETS INSTALLED IN CORRUGATED METAL WALL PANELS SHALL BE PROVIDED WITH A TRIM AROUND THE FACEPLATE. REFER TO ARCHITECTURAL PLANS FOR WALL LOCATIONS WITH CORRUGATED METAL WALL PANELS AND ARCHITECTURAL DETAILS FOR ADDITIONAL INFORMATION ON REQUIRED TRIM.

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| ISSUE | DATE |
|---|---|
| IFB SET | 05/27/2026 |

DRAWN BY: JRA
CHECKED BY: RCR

**REID STATE CC WELDING & INDUSTRIAL RENO.**
100 AL-83, Evergreen, AL 36401

ACCS
GMC ABHM250047

ALABAMA LICENSED PROFESSIONAL ENGINEER No. 24663 ROBERT C. RENFRO
5.27.26

**ELECTRICAL LEGEND & NOTES**

**E0.01**

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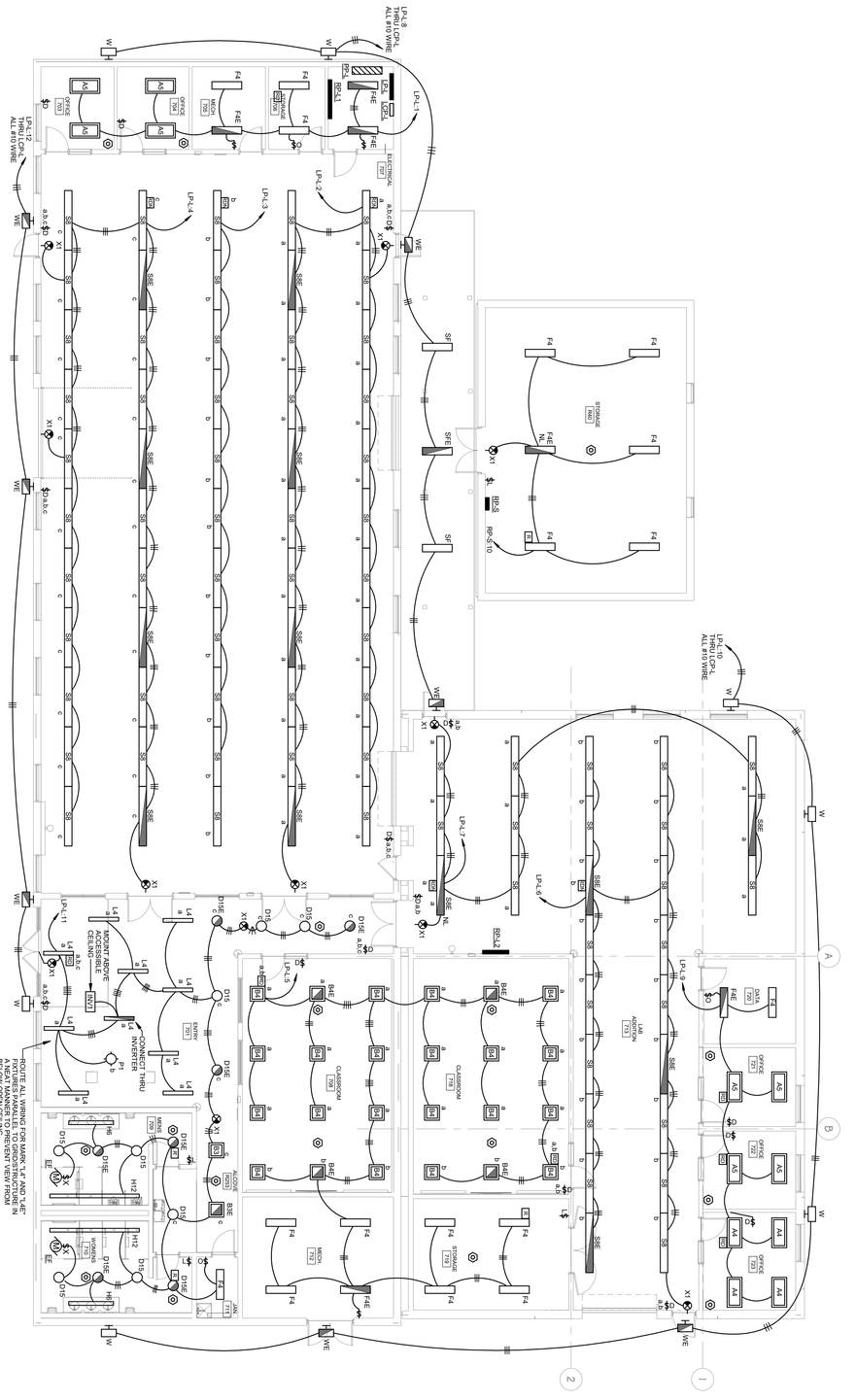
2/25/2026 9:36:08 AM TEMPLATE VERSION: 2025.1




1 E1.11 SCALE: 1/8" = 1'-0"

## LIGHTING PLAN - LABS

| NOTES THIS SHEET ONLY |
|---|
| 1. DO NOT SWITCH EXIT SIGNS, NIGHT LIGHTS OR BATTERY CHARGE CIRCUIT IN EMERGENCY FIXTURES. REFER TO LIGHTING FIXTURE SCHEDULE FOR EMERGENCY FIXTURES. |
| 2. INSTALL NEUTRAL CONDUCTOR TO ALL LINE-VOLTAGE SWITCHES. |

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**LIGHTING PLAN - LABS**

E1.11

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| ISSUE | DATE |
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| DRAWN BY: | JRA |
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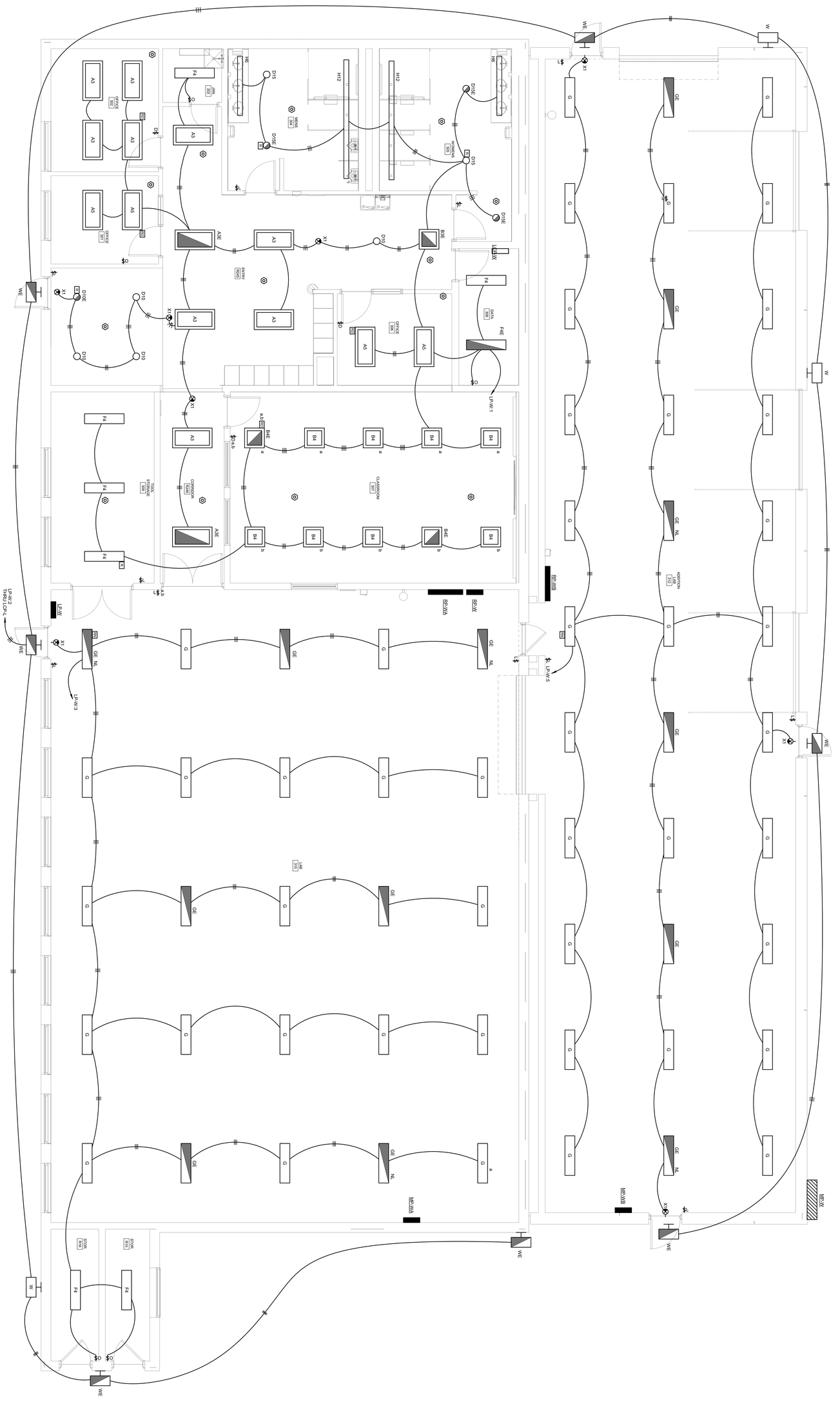
GMC

# LIGHTING PLAN - WELDING

1 E1.12 SCALE: 1/4" = 1'-0"




## NOTES THIS SHEET ONLY

1. DO NOT SWITCH EXIT SIGNS, NIGHT LIGHTS OR BATTERY CHARGE CIRCUIT IN EMERGENCY FIXTURES. REFER TO LIGHTING FIXTURE SCHEDULE FOR EMERGENCY FIXTURES.
2. INSTALL NEUTRAL CONDUCTOR TO ALL LINE-VOLTAGE SWITCHES.

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**LIGHTING PLAN - WELDING**

E1.12

ALABAMA LICENSED PROFESSIONAL ENGINEER No. 34401 ROBERT C. RENFRO 5.27.26

**REID STATE CC WELDING & INDUSTRIAL RENO.**

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ACCS

GMC ABHM250047

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Goodwyn Mills Cawood, LLC
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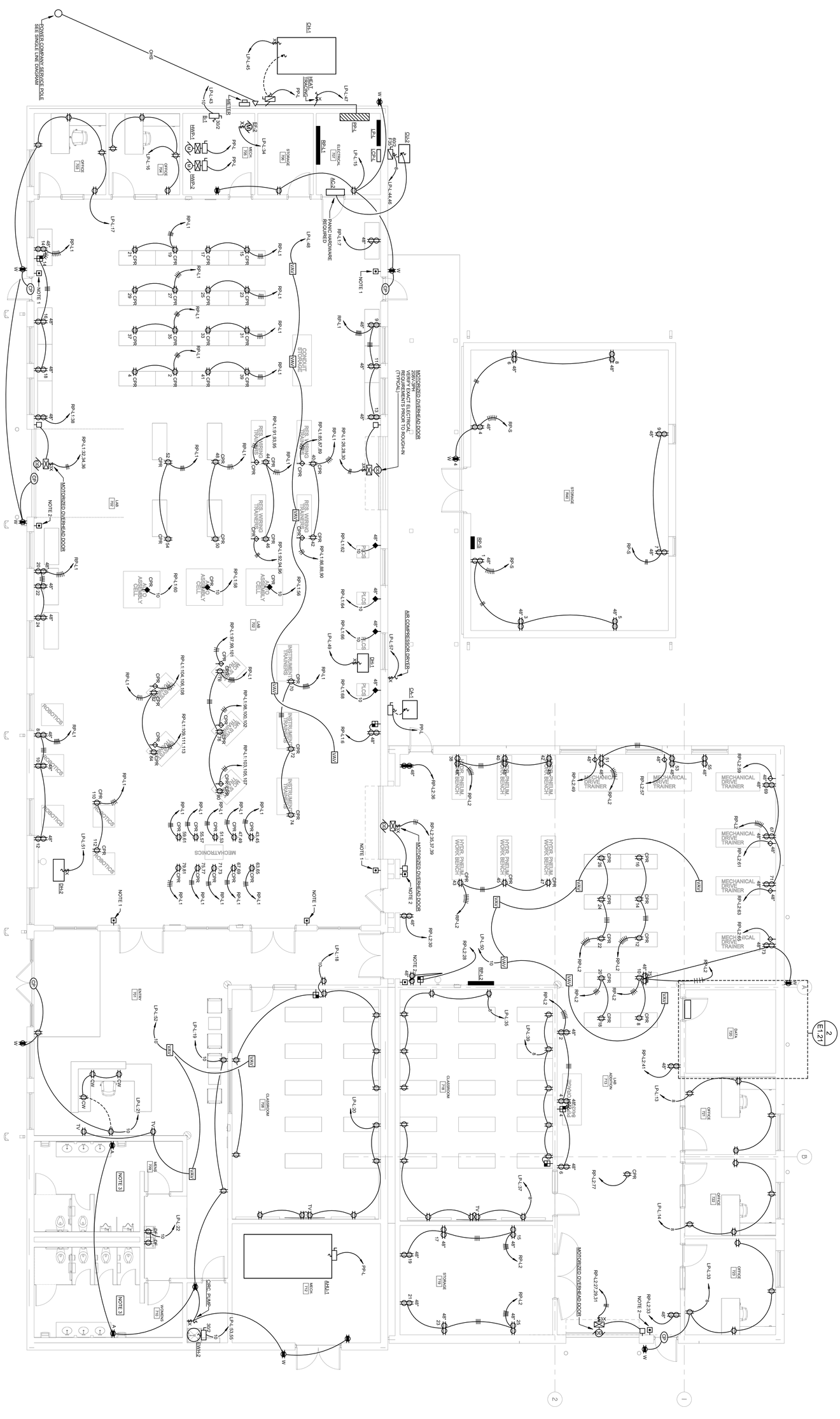
# 1 POWER PLAN - LABS

E1.21 SCALE: 3/16" = 1'-0"


POWER COMPANY SERVICE, EDLE
SEE SINGLE LINE DIAGRAM
OHS
Ckt-1
LPL-46
HEAT TRACE
PPL-L
LPL-47
METER
LPL-43
10'
30/2
EL1
W
EL-2
EL-1
HWEP-1
HWEP-2
PPL-1
PPL-2
LPL-34
LPL-16
LPL-17
LPL-15
RPS-L
LPL
LPPL
Ckt-2
RPS-1
LPL-44,46
AC-2
STATIC PREVENTIVE REQUIRED
RPL-L17
LPL-48
NOTE 1
MOTORIZED OVERHEAD DOOR
DOOR CONTRACTOR TO VERIFY EXACT ELECTRICAL REQUIREMENTS PRIOR TO ROUGH-IN (TYPICAL)
RPL-L26,28,30
RPL-L195,87,89
RPL-L191,93,95
RPL-L192,94,96
RPL-L197,99,101
RPL-L198,100,102
RPL-L103,105,107
RPL-L104,106,108
RPL-L109,111,113
RPL-L1,98
RPL-L1,88,90
RPL-L1,92
RPL-L1,94
RPL-L1,96
RPL-L1,98
RPL-L1,100
RPL-L1,56
RPL-L1,58
RPL-L1,60
RPL-L1,62
RPL-L1,64
RPL-L1,66
RPL-L1,68
RPL-L1,70
RPL-L1,72
RPL-L1,74
RPL-L1,76
RPL-L1,78
RPL-L1,80
RPL-L1,82
RPL-L1,84
RPL-L1,86
RPL-L1,32,34,36
RPL-L1,38
RPL-L1,40,42,44
RPL-L1,46,48,50,52,54
RPL-L1,1,3,5,7,9,11,13,15,17,19,21,23,25,27,29,31,33,35,37,39,41,43,45,47,49,51,53,55,57,59,61,63,65,67,69,71,73,75,77,79,81,83,85,87
RPL-L2,59
RPL-L2,57
RPL-L2,55
RPL-L2,53
RPL-L2,51
RPL-L2,49
RPL-L2,47
RPL-L2,45
RPL-L2,43
RPL-L2,41
RPL-L2,39
RPL-L2,37,39
RPL-L2,36
RPL-L2,30
RPL-L2,28
RPL-L2,27,29,31
RPL-L2,33
RPL-L2,35
RPL-L2,1,3,5,7,9,11,13,15,17,19,21,23,25,27
RPL-L2,61
RPL-L2,63
RPL-L2,65
RPL-L2,67
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RPL-L2,81
RPL-L2,83
RPL-L2,85
RPL-L2,87
RPL-S
RPS-S
RPS-L
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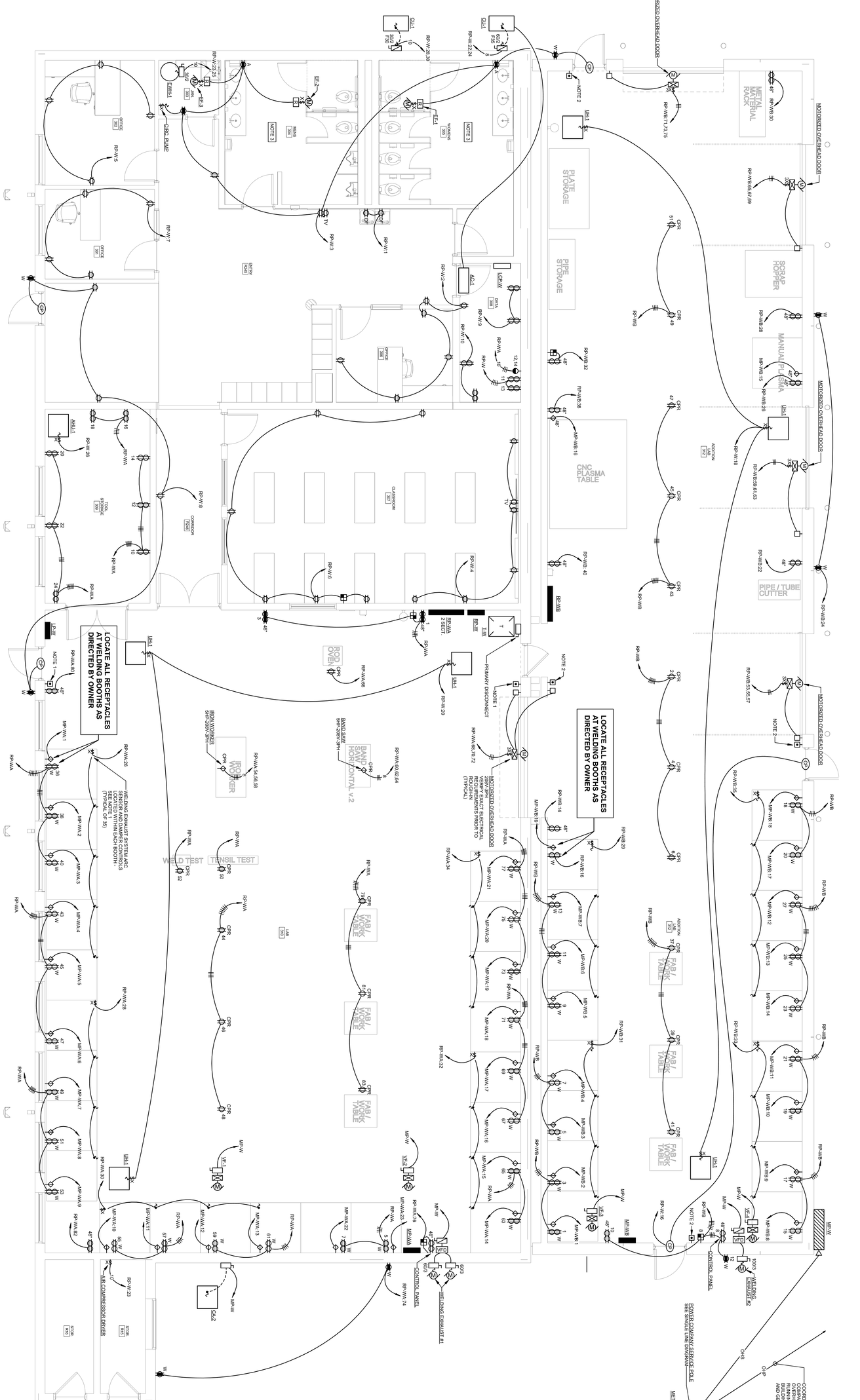
RPS-41

# POWER PLAN - WELDING

1 E1.22 SCALE: 1/4" = 1'-0"


LOCATE ALL RECEPTACLES AT WELDING BOOTHS AS DIRECTED BY OWNER
MOTORIZED OVERHEAD DOOR
METAL MATERIAL RACK
SCRAP HOPPER
MANUAL PLASMA
PIPE / TUBE CUTTER
NC PLASMA CUTTER TABLE
PLATE STORAGE
PIPE STORAGE
FAB / WORK TABLE
ROD OVEN
IRON WORKER
BAND SAW HORIZONTAL v.2
AIR COMPRESSOR/DRYER
WELDING EXHAUST #1
WELDING EXHAUST #2
CONTROL PANEL
PRIMARY DISCONNECT
MOTORIZED OVERHEAD DOOR 208V/3PH REQUIREMENTS PRIOR TO PURCHASE (TYPICAL)
WELDING EXHAUST ARC SENSOR AND DAMPER CONTROLS (LOCATED WITHIN EACH BOOTH - SEE NOTE 1) (TYPICAL OF 5X)
WELD TEST
TRANSIL TEST
OFFICE 306
MENS 304
WOMENS 305
JANITOR 303
CLASSROOM 307
TOOL STORAGE 308
CORRIDOR 309
STOR. 310
STOR. 311
ADDITION 312
ELEC. PANEL
DATA
TV
CPR
JAN
DRIC. PUMP
MP-W
MP-WA
RP-W
RP-WA
RP-WB
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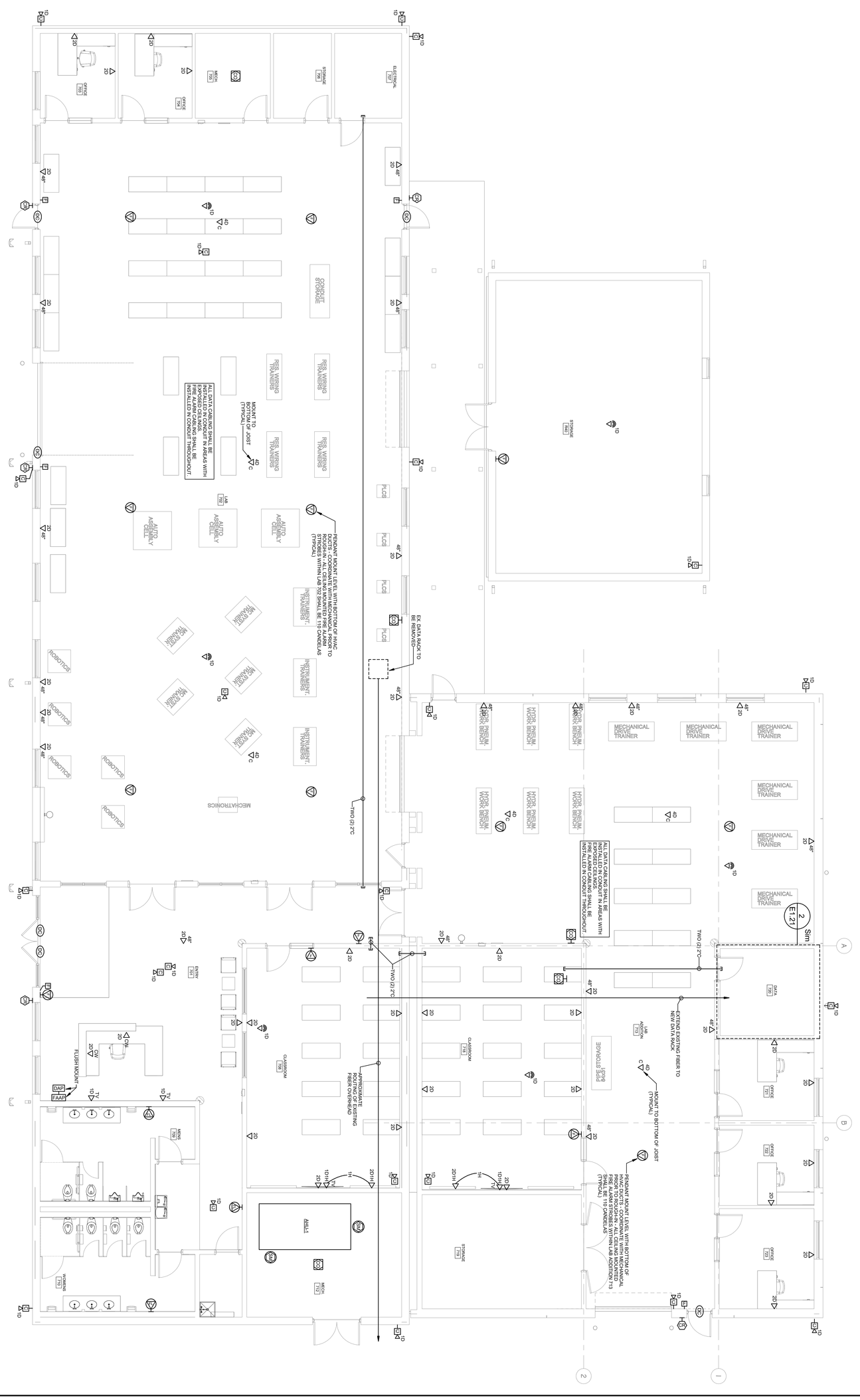


1 E1.31 AUXILIARY PLAN - LABS
SCALE: 3/16" = 1'-0"

JACKSON, RENFRO & ASSOCIATES, INC.
ROBERT RENFRO, PE
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JRA JOB NO. 22268

**AUXILIARY PLAN - LABS**

E1.31

**REID STATE CC WELDING & INDUSTRIAL RENO.**
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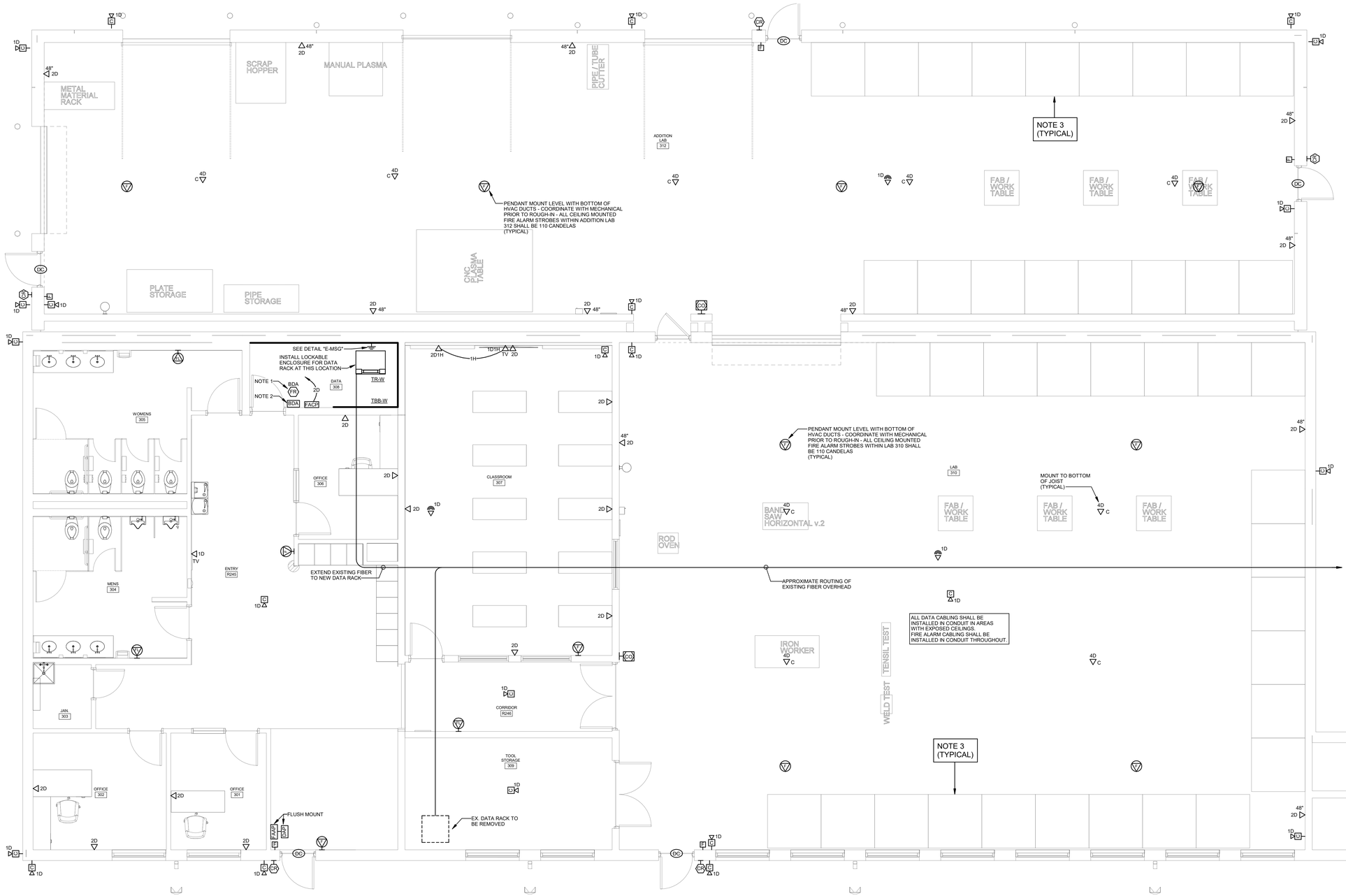


## 1 E1.32 AUXILIARY PLAN - WELDING

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

| NOTES THIS SHEET ONLY |
|---|
| 1. QUANTITY OF RELAYS AS REQUIRED TO MONITOR EMERGENCY RESPONDER COMMUNICATIONS ENHANCEMENT SYSTEM. REFER TO EMERGENCY RESPONDER COMMUNICATIONS ENHANCEMENT SYSTEM RISER DIAGRAM. PROVIDE DEVICE(S) ONLY IF REQUIRED AND ALL ASSOCIATED COST SHALL BE INCLUDED IN AN ALLOWANCE - REFER TO ELECTRICAL AND ALLOWANCES SPECIFICATIONS. |
| 2. EMERGENCY RESPONDER COMMUNICATIONS ENHANCEMENT SYSTEM BI-DIRECTIONAL AMPLIFIER (IF REQUIRED). REFER TO ELECTRICAL SPECIFICATIONS. |
| 3. INSTALL CONTROL WIRING FROM WELDING EXHAUST BOOTHS TO WELDING EXHAUST SYSTEM AS DIRECTED BY EQUIPMENT SUPPLIER. |


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GMC ABHM250047

ALABAMA LICENSED PROFESSIONAL ENGINEER ROBERT C. RENFRO No. 24463
5.27.26

**AUXILIARY PLAN - WELDING**

**E1.32**


JACKSON, RENFRO & ASSOCIATES, INC.
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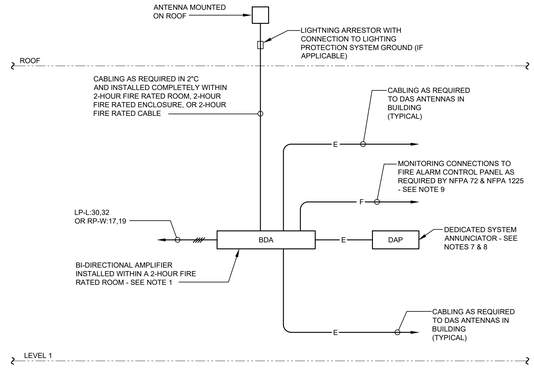
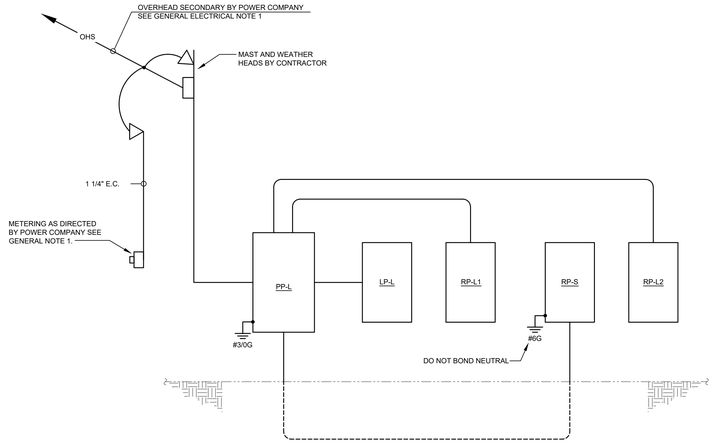


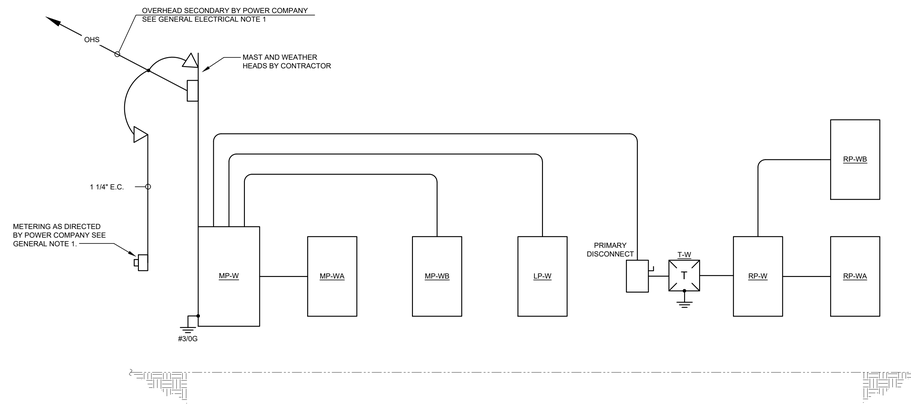

# EMERGENCY RESPONDER COMMUNICATIONS ENHANCEMENT SYSTEM RISER DIAGRAM (TYPICAL EACH BUILDING)

SCALE : NONE

## EMERGENCY RESPONDER COMMUNICATIONS ENHANCEMENT SYSTEM NOTES

1. AS PART OF THE BASE BID THIS CONTRACTOR SHALL SURVEY THE BUILDING ONCE STRUCTURE IS COMPLETE AND IMMEDIATELY PRIOR TO CEILINGS BEING INSTALLED TO DETERMINE RADIO COVERAGE IN ALL AREAS OF THE BUILDING. FURNISH REPORT TO THE ARCHITECT INDICATING SIGNAL AREAS AT ALL AREAS OF THE NEW BUILDING ADDITION. IF IT IS DETERMINED THAT AN EMERGENCY RESPONDER COMMUNICATIONS ENHANCEMENT SYSTEM IS REQUIRED, IT WILL THEN BE INSTALLED IN THE NEW BUILDING ADDITION IN ACCORDANCE WITH SECTION 287800 OF THE SPECIFICATIONS. THE COST OF THE SYSTEM SHALL BE PAID FOR BY A PROJECT ALLOWANCE - REFER TO THE ALLOWANCES PORTION OF THE PROJECT SPECIFICATIONS. SYSTEM SHALL INCLUDE A COMPLETE OPERATING SYSTEM CONSISTING OF NECESSARY AMPLIFIERS, FILTERS, SURGE SUPPRESSION, CABLING, ANTENNA, ALL REQUIRED SYSTEM MONITORING, ETC.
2. REFER TO ELECTRICAL SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
3. DIAGRAM DEMONSTRATES BASIC SYSTEM RISER ONLY. EXACT SYSTEM LAYOUT AND COMPONENTS SHALL BE AS DETERMINED BY SUPPLIER SUBJECT TO SUBMITTAL REVIEW. CONTRACTOR SHALL PROVIDE ALL SYSTEM CONNECTIONS, DEVICES, CABLING, ETC. AS REQUIRED FOR A COMPLETE SYSTEM.
4. PROVIDE WIRING AS REQUIRED TO ALL EMERGENCY RESPONDER COMMUNICATIONS ENHANCEMENT SYSTEM DEVICES. CABLING MAY BE RUN EXPOSED WITHIN CABLE TRAY OR BY WAY OF J-HOOKS OR SUPPORT RINGS 5'-0" ON CENTER IN ALL AREAS WITH ACCESSIBLE CEILINGS. CABLING SHALL BE INSTALLED IN PROPERLY SIZED CONDUIT IN ALL AREAS WITH HARD CEILING, WHERE ROUTED IN WALLS, AND IN AREAS WITH EXPOSED STRUCTURE (SUCH AS THE MACHINE TOOL TECHNOLOGY LAB). PROVIDE PLASTIC END BUSHING ON ALL ABOVE CEILING CONDUIT TERMINATIONS.
5. EXACT QUANTITIES/LOCATIONS OF ALL DAS ANTENNAS SHALL BE DETERMINED BY THE EQUIPMENT SUPPLIER FOR REQUIRED COVERAGE.
6. PROVIDE 120V DEDICATED EMERGENCY CIRCUITS AS REQUIRED.
7. VERIFY LOCATION OF DEDICATED ANNUNCIATOR WITH THE FIRE MARSHAL PRIOR TO ROUGH-IN.
8. THE COMMUNICATIONS LINK BETWEEN THE DEDICATED ANNUNCIATOR AND THE EMERGENCY RESPONDER COMMUNICATION COVERAGE SYSTEM SHALL BE MONITORED FOR INTEGRITY.
9. CONNECT EMERGENCY RESPONDER COMMUNICATION SYSTEM TO FIRE ALARM SYSTEM FOR ALL MONITORING AS REQUIRED BY NFPA 72 AND NFPA 1225. AT A MINIMUM THE FIRE ALARM SYSTEM SHALL MONITOR SIGNAL SOURCE MALFUNCTION, ACTIVE RF-EMITTING DEVICE FAILURE, LOW BATTERY CAPACITY INDICATION, ACTIVE SYSTEM COMPONENT FAILURE, LOSS OF NORMAL AC POWER, FAILURE OF BATTERY CHARGER, AND THE COMMUNICATIONS LINK BETWEEN THE FIRE ALARM SYSTEM AND THE EMERGENCY RESPONDER COMMUNICATION SYSTEM.



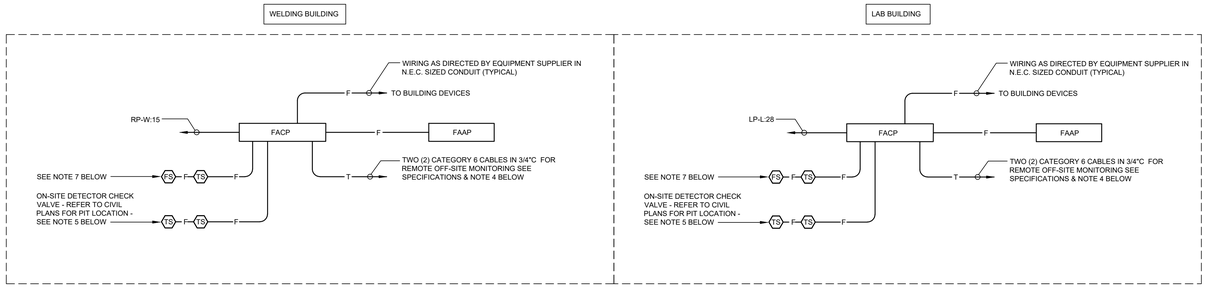




# SINGLE LINE DIAGRAM

SCALE : NONE

## DIAGRAM NOTES

1. REFER TO SWITCHBOARD, PANELBOARD, AND TRANSFORMER SCHEDULES FOR ALL APPLICABLE FEEDER SIZES, BREAKER RATINGS, BUS RATINGS, TRANSFORMER RATINGS, ETC. NOT SHOWN ON THIS DIAGRAM.
2. NEUTRAL-GROUND BONDS SHALL ONLY BE MADE AT THE FOLLOWING LOCATIONS:
   A. MAIN BREAKER AT MP-W AND PP-L.
   B. SECONDARY SIDE OF ALL TRANSFORMERS.
3. REFER TO TRANSFORMER SCHEDULES FOR MINIMUM GROUNDING ELECTRODE SIZES FOR DISTRIBUTION EQUIPMENT.

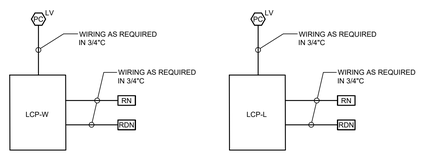



# FIRE ALARM SYSTEM RISER DIAGRAM

SCALE : NONE

## FIRE ALARM SYSTEM NOTES

1. ALL FIRE ALARM WIRING SHALL BE RUN IN CONDUIT. NO EXCEPTIONS.
2. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COST INVOLVED WITH OBTAINING A SEPARATE PERMIT AS REQUIRED BY LOCAL AUTHORITIES FOR INSTALLATION OF THE FIRE ALARM SYSTEM.
3. FIRE ALARM EQUIPMENT SUPPLIER SHALL PROVIDE A COMPLETE SET OF FIRE ALARM EQUIPMENT SHOP DRAWINGS TO LOCAL FIRE MARSHALL FOR HIS APPROVAL.
4. COORDINATE WITH OWNER IN REGARD TO ACQUISITION OF DEDICATED PHONE LINES FROM UTILITY OR REQUIREMENTS FOR OTHER OFF-SITE MONTIORING COMMUNICATION TECHNOLOGY. EXACT/ADDITIONAL COMMUNICATION TECHNOLOGY SHALL BE AS REQUIRED BY APPLICABLE CODE AND AHJ. OFF-SITE MONITORING SERVICE SHALL BE IN OPERATION PRIOR TO ACCEPTANCE TEST.
5. PROVIDE SURGE PROTECTION DEVICES ON EACH END OF ALL COPPER FIRE ALARM CIRCUITS WITH ANY PORTION LOCATED OUTSIDE OF BUILDINGS.
6. INSTALL DUCT MOUNTED SMOKE DETECTOR(S) AND CONTROL RELAY AT EACH MECHANICAL UNIT AND AT FIRE/SMOKE DAMPERS WHERE REQUIRED FOR UNIT SHUTDOWN. COORDINATE ALL WORK REQUIRED WITH MECHANICAL. CONTRACTOR SHALL REVIEW MECHANICAL PLANS TO CONFIRM UNIT LOCATIONS AND THAT QUANTITY OF REQUIRED DUCT DETECTORS AND CONTROL RELAYS MATCH THOSE SHOWN ON ELECTRICAL PLANS.
7. THIS CONTRACTOR SHALL VERIFY EXACT QUANTITY AND LOCATION OF ALL SPRINKLER SYSTEM FLOW SWITCHES AND TAMPER SWITCHES FROM FIRE PROTECTION SYSTEM PLANS AND SPECIFICATIONS PRIOR TO BID AND FURNISH ALL MATERIAL AND LABOR REQUIRED TO CONNECT EACH AS A SEPARATELY ZONED DEVICE. COORDINATE ALL WORK REQUIRED WITH FIRE PROTECTION SYSTEM SUB-CONTRACTOR.




# LIGHTING CONTROL PANEL RISER DIAGRAM

SCALE : NONE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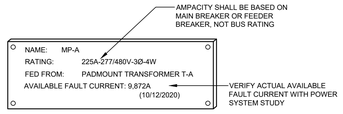
ALABAMA LICENSED PROFESSIONAL ENGINEER ROBERT C. RENFRO No. 24463
5.27.26

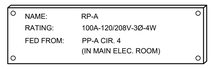
**SINGLE LINE DIAGRAMS**

E4.01

2/25/2026 9:36:08 AM TEMPLATE VERSION: 2025.1




POWER SERVICE EQUIPMENT

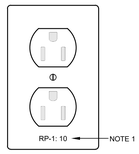



PANELBOARD/EQUIPMENT

# DETAIL "E-EDL" ELECTRICAL DISTRIBUTION EQUIPMENT LABEL

SCALE : NONE

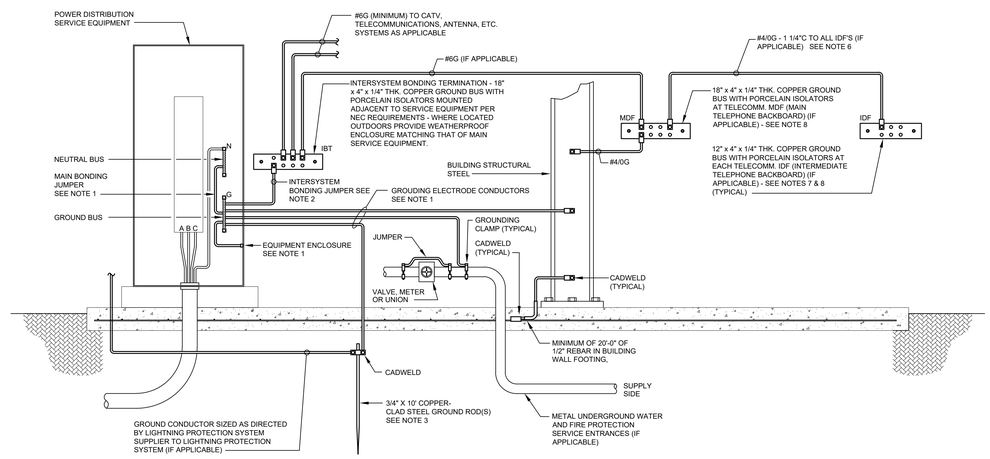
| DETAIL NOTES |
|---|
| 1. PANEL NAMES & RATINGS LISTED ABOVE ARE FOR EXAMPLE PURPOSES ONLY. NAMES & RATINGS SHALL BE ADJUSTED TO MATCH ASSOCIATED EQUIPMENT. |
| 2. THE INTENT OF THIS DETAIL IS TO DEMONSTRATE GENERAL ELECTRICAL IDENTIFICATION REQUIREMENTS FOR ELECTRICAL DISTRIBUTION AND UTILIZATION EQUIPMENT. REFER TO SPECIFICATIONS FOR SPECIFIC REQUIREMENTS REGARDING LOCATIONS, CONTENT, MATERIALS, ETC.. |




# DETAIL "E-RI" RECEPTACLE IDENTIFICATION

SCALE : NONE

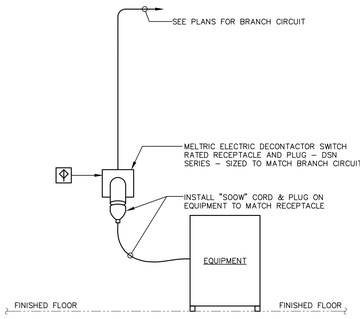
| DIAGRAM NOTES |
|---|
| 1. ALL RECEPTACLE FACE PLATES SHALL BE ENGRAVED WITH 3/16 INCH BLACK LETTERS INDICATING THE PANEL NAME AND CIRCUIT NUMBER SERVING THE DEVICE. TYPICAL FOR ALL RECEPTACLES. |




# DETAIL "E-MSG" MAIN SERVICE GROUNDING

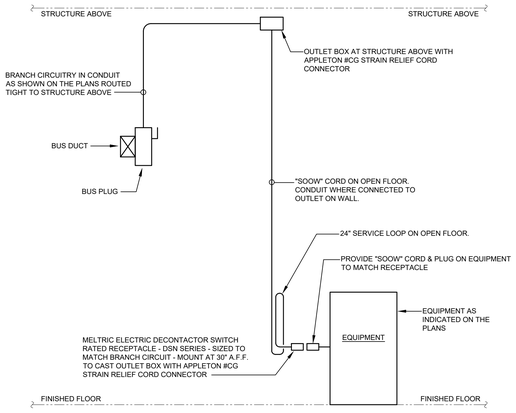
SCALE : NONE

| DETAIL NOTES |
|---|
| 1. UNLESS OTHERWISE NOTED, MAIN BONDING JUMPER SHALL BE SIZED IN ACCORDANCE WITH NEC TABLE 250.102(C)(1) AND ALL GROUNDING ELECTRODE CONDUCTORS SHALL BE SIZED IN ACCORDANCE WITH NEC TABLE 250.66. ALL CONDUCTORS SHALL BE INSULATED COPPER. |
| 2. THE INTERSYSTEM BONDING JUMPER SHALL BE INSULATED COPPER, SIZED TO MATCH THE GROUNDING ELECTRODE CONDUCTOR OR #6AWG, WHICHEVER IS GREATER. |
| 3. ADDITIONAL GROUND RODS SHALL BE INSTALLED A MINIMUM OF SIX (6) FEET APART AND CONNECTED BY GROUNDING ELECTRODE CONDUCTORS UNTIL THE GROUND RESISTANCE DOES NOT EXCEED FIVE (5) OHMS. |
| 4. ALL GROUNDING CONDUCTORS SHALL BE INSTALLED IN CONDUIT (TYPE PER SPECIFICATION REQUIREMENTS) UNLESS SPECIFICALLY NOTED OTHERWISE. METAL CONDUITS SHALL BE GROUNDED PER NEC REQUIREMENTS. |
| 5. REFER TO "GROUNDING" SPECIFICATIONS SECTION FOR ADDITIONAL GROUNDING REQUIREMENTS. |
| 6. THE CONTRACTOR MAY "DAISY-CHAIN" IDF'S TOGETHER WITH A #4/0G. THIS DETAIL IS NOT INTENDED TO REQUIRE A #4/0G FROM EACH IDF TO THE MDF. THE INTENT OF THIS DETAIL TO TO BOND TOGETHER THE SUPPLEMENTAL GROUND BUS IN THE MDF, ALL IDF'S, AND THE MAIN SERVICE GROUND WITH A #4/0G. |
| 7. WHERE AN IDF IS LOCATED IN A SEPARATE BUILDING FROM THE MDF, THE IDF SHALL ALSO BE BONDED TO THE SERVICE GROUND FOR THE SEPARATE BUILDING CONTAINING THE IDF. THIS REQUIREMENT IS IN ADDITION TO THE BOND TO THE MDF. |
| 8. THE EQUIPMENT WITHIN EACH MDF AND IDF SHALL BE BONDED TO THE SUPPLEMENTAL GROUND BUS IN ACCORDANCE WITH THE STRUCTURED CABLING SPECIFICATIONS, EQUIPMENT SUPPLIER'S DIRECTION AND CODE REQUIREMENTS. |



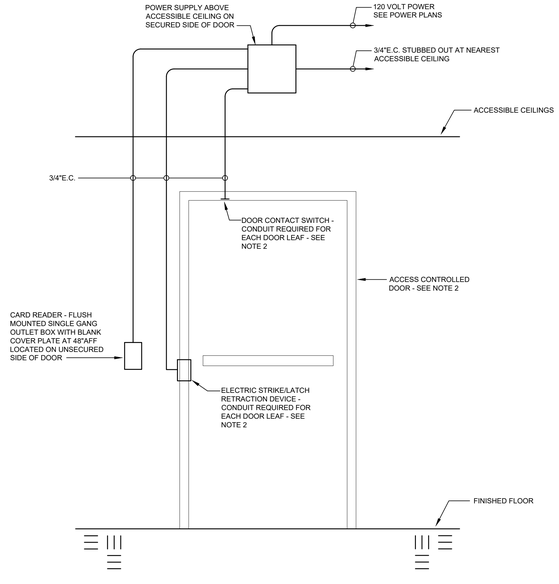

# TYPICAL EQUIPMENT DISCONNECT WITH MELTRIC RECEPTACLE DETAIL

SCALE : NONE




# TYPICAL EQUIPMENT CONNECTION TO BUS DUCT DETAIL

SCALE : NONE




# DETAIL "E-AC" ACCESS CONTROLLED DOOR DIAGRAM

SCALE : NONE

| DETAIL NOTES |
|---|
| 1. VERIFY ALL ACCESS CONTROL SYSTEM REQUIREMENTS WITH DOOR HARDWARE SUPPLIER PRIOR TO ROUGH-IN. |
| 2. PROVIDE CONDUIT FOR ELECTRIC STRIKE/LATCH RETRACTION DEVICE AND DOOR CONTACT SWITCH ON BOTH DOORS FOR ALL DOUBLE DOORS. |

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**ELECTRICAL DETAILS**

E5.01

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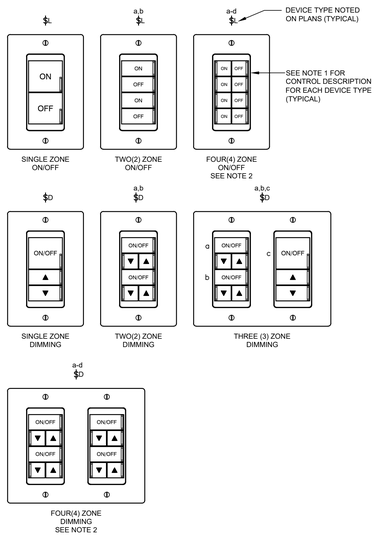
2/25/2026 9:36:08 AM TEMPLATE VERSION: 2025.1

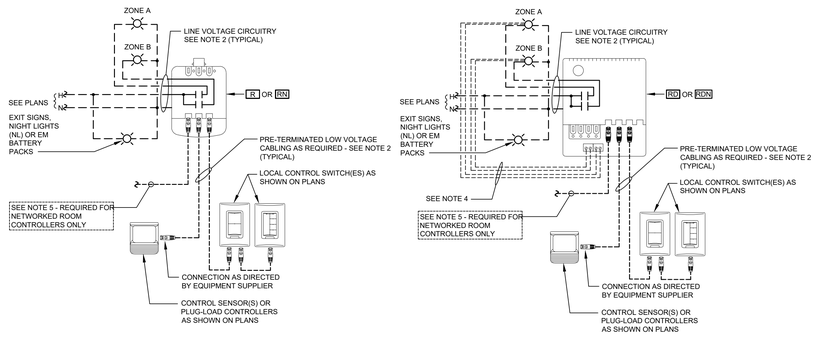



## DETAIL "E-LCS"
## TYPICAL DIGITAL LIGHTING CONTROL STATION LAYOUT

SCALE : NONE

### DIAGRAM NOTES

1. ON/OFF CONTROLS SHALL INCLUDE ON/OFF CONTROL FOR EACH ZONE. DIMMING CONTROLS SHALL INCLUDE ON/OFF AND RAISE/LOWER CONTROLS FOR EACH ZONE. PRESET STATIONS SHALL INCLUDE FOUR(4) SELECTABLE SCENES, MASTER ON/OFF AND MASTER RAISE/LOWER CONTROLS.
2. WHERE MORE THAN FOUR(4) ZONES ARE REQUIRED ON PLANS, FURNISH ADDITIONAL CONTROL STATIONS AS REQUIRED FOR INDEPENDENT CONTROL OF EACH ZONE. ADDITIONAL CONTROL STATIONS SHALL BE GANGED TOGETHER UNDER A SINGLE COVERPLATE. CONTRACTOR SHALL INSTALL OUTLET BOX LARGE ENOUGH TO ACCOMMODATE REQUIRED NUMBER OF CONTROL STATIONS.
3. UNLESS SELECTED OTHERWISE BY THE ARCHITECT DURING THE SUBMITTAL PROCESS, ALL COVERPLATES SHALL MATCH OTHER DEVICE PLATES (TYPICALLY STAINLESS STEEL), AND ALL DEVICES SHALL MATCH OTHER DEVICES (TYPICALLY GRAY). REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION REGARDING FINISHES.
4. REFER TO DETAIL "E-RC" FOR CABLING AND CONNECTION REQUIREMENTS FOR EACH CONTROL STATION.
5. ALL BUTTONS SHALL BE PERMANENTLY ENGRAVED AS SHOWN ON THIS DETAIL. GENERIC BUTTONS WITHOUT DESIGNATIONS NOTED ABOVE ARE NOT ALLOWED. SUBMIT LAYOUT FOR EACH PROPOSED CONTROL STATION FOR REVIEW DURING SUBMITTAL PROCESS. SUBMITTALS WITHOUT THIS INFORMATION WILL BE REJECTED WITHOUT REVIEW.

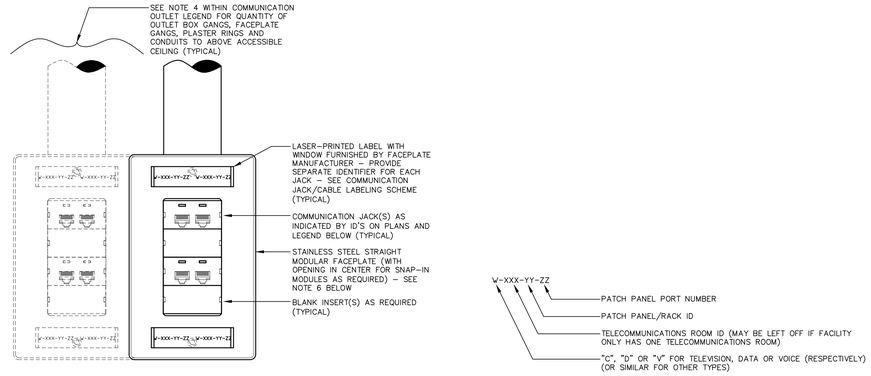



## DETAIL "E-RC"
## TYPICAL ROOM DIGITAL LIGHTING CONTROL WIRING DIAGRAM(S)

SCALE : NONE

### DIAGRAM NOTES

1. DEVICES SHOWN ON THIS DIAGRAM ARE TYPICAL ONLY. EXACT SWITCHING, COMPONENTS, CONNECTIONS, DIMMING TYPE, ETC. WILL VARY. REFER TO PLANS FOR EXACT DEVICES REQUIRED IN EACH SPACE.
2. ALL CIRCUITRY/CABLING SHALL BE CONCEALED. LOW VOLTAGE CABLING MAY BE INSTALLED WITHOUT CONDUIT WHERE ABOVE ACCESSIBLE CEILINGS (IF SUPPORTED EVERY 60" MAXIMUM WITH J-HOOKS). ALL LINE VOLTAGE WIRING SHALL BE INSTALLED IN CONDUIT (UNLESS SPECIFICALLY NOTED OTHERWISE) PER SPECIFICATION REQUIREMENTS. FURNISH NUMBER OF ROOM CONTROLLERS/POWER PACKS AS REQUIRED TO ACCOMPLISH INTENT SHOWN ON PLAN.
3. THIS DIAGRAM SHOWS GENERAL WIRING REQUIREMENTS ONLY. CONTRACTOR SHALL PROVIDE ALL LOW VOLTAGE CONNECTIONS, LINE VOLTAGE CONNECTIONS, EQUIPMENT, ETC. AS RECOMMENDED BY THE LIGHTING CONTROL SYSTEM PROVIDER AS REQUIRED FOR A FULLY-FUNCTIONAL DIGITAL LIGHTING CONTROL SYSTEM.
4. CONTRACTOR SHALL FURNISH AND INSTALL ALL LOW VOLTAGE CONTROL CABLING OR ADDITIONAL CONDUCTOR(S) FROM 0-10V DIMMING ROOM CONTROLLER(S) TO ALL 0-10V DIMMED LIGHT FIXTURES AS REQUIRED FOR FULL DIMMING CONTROL OF ALL OVERHEAD LIGHTING THROUGHOUT ASSOCIATED SPACE. EXACT CONTROL CABLING WILL VARY DEPENDING ON FIXTURE DIMMING TYPE. MULTI-CONDUCTOR, PLENUM RATED CABLE SHALL BE USED FOR ALL LOW VOLTAGE CABLING.
5. FOR NETWORKED ROOM CONTROLLERS, CONTRACTOR SHALL FURNISH NETWORK CABLING TO ASSOCIATED MASTER LIGHTING CONTROL SYSTEM AS REQUIRED FOR TIME SWEEP-STYLE AUTOMATIC LIGHTING SHUTOFF - PROVIDE ALL ADDITIONAL COMPONENTS SUCH AS NETWORK BRIDGE(S)/GATEWAY(S) AS REQUIRED.
6. WHERE EXHAUST FANS SERVE RESTROOMS AND ARE ON A DIFFERENT CIRCUIT THAN RESTROOM LIGHTING, FURNISH POWER PACK AND ASSOCIATED LOW-VOLTAGE CABLING AS REQUIRED TO CONTROL FAN WITH LIGHTS.




## DETAIL "E-CO"
## COMMUNICATION OUTLET

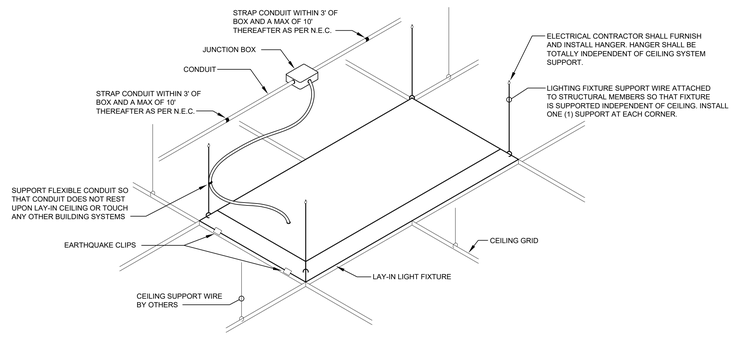
SCALE : NONE

**COMMUNICATION OUTLET LEGEND**

| JACK ID(S) SHOWN ON PLANS | JACK TYPE(S) | ASSOCIATED HOMERUN CABLING FROM JACK (SEE NOTE 3 BELOW) | HOMERUN CABLING TO (UNLESS SHOWN OTHERWISE ON PLANS) | REMARKS |
|---|---|---|---|---|
| *D | RJ45 DATA JACK(S) | CAT6 DATA CABLE(S). | NEAREST DATA PATCH PANEL | |
| *H | IF CABLE LENGTH < 35': PASSIVE HDMI JACK(S) | SEE *HD BELOW FOR CABLE REQUIREMENTS. | ASSOCIATED LOW VOLTAGE **HD" OUTLET AT DISPLAY LOCATION (TV/PROJECTOR/ETC.) | SEE NOTE 8 BELOW |
| | IF CABLE LENGTH > 35': ACTIVE HDMI JACK(S) - RAPID RUN OPTICAL TRANSMITTER PLATE OR EQUAL | SEE *HD BELOW FOR CABLE REQUIREMENTS. | | |
| *HD | IF CABLE LENGTH < 35': PASSIVE HDMI JACK(S) | 4K HDMI CABLE | ASSOCIATED LOW VOLTAGE **H" OUTLET AT SOURCE LOCATION (WALL/FLOOR/TABLE) | SEE NOTES 8 & 9 BELOW |
| | IF CABLE LENGTH > 35': ACTIVE HDMI JACK(S) - RAPID RUN OPTICAL RECEIVER OR EQUAL - PROVIDE CONCEALED L.V. POWER FROM ADJACENT 120V RECEPATCLE | RAPID RUN OPTICAL PLENUM RUNNER OR EQUAL | | |
| *V | RJ45 VOICE JACK(S) | CAT6 VOICE CABLE(S). | NEAREST TELEPHONE PATCH PANEL/BACKBOARD | |

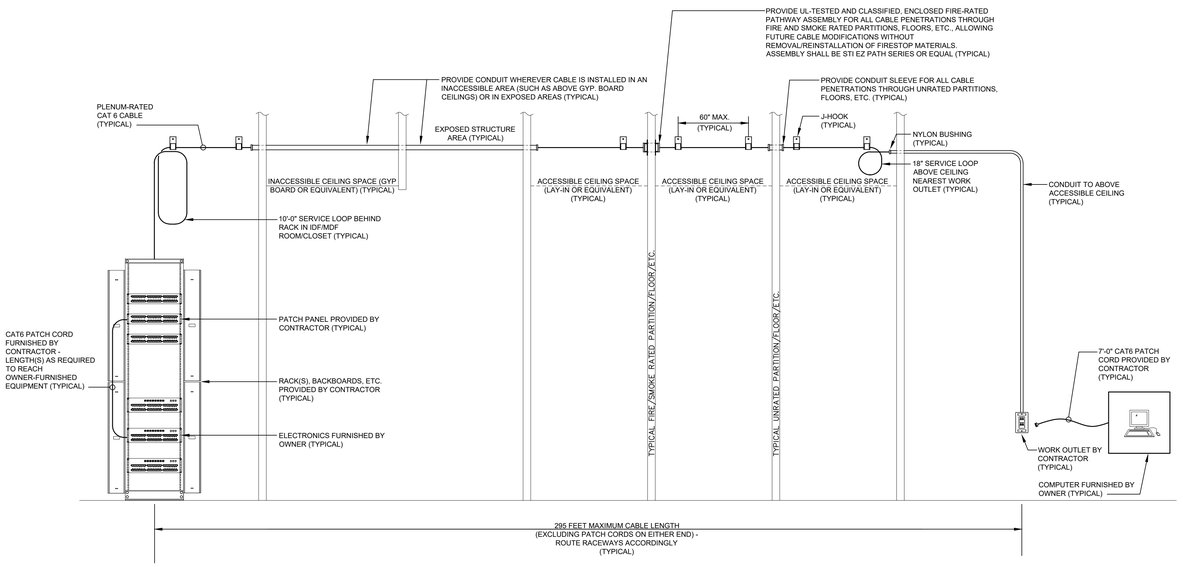
NOTES:

1. THE ASTERISK "*" WITHIN THE JACK ID SECTION ABOVE REPRESENT THE QUANTITIES OF EACH JACK/CABLE TYPE. FOR EXAMPLE, "3D" REPRESENTS THREE (3) DATA JACKS/CABLES.
2. THE JACK IDENTIFIERS SHOWN ABOVE MAY BE COMBINED TOGETHER ON PLANS. FOR EXAMPLE, THE IDENTIFIER "1V2D" REPRESENTS ONE (1) VOICE JACK/CABLE AND TWO (2) DATA JACKS/CABLES. OUTLETS MAY CONSIST OF ANY COMBINATION OF THE ABOVE JACK TYPES.
3. ALL LOW VOLTAGE CABLING SHALL BE PLENUM-RATED.
4. THE QUANTITY OF OUTLET BOX GANGS AND CONDUITS FOR EACH COMMUNICATION OUTLET ASSEMBLY SHALL BE AS FOLLOWS:
   - 1-4 JACKS: 2-GANG OUTLET BOX WITH 1-GANG PLASTER RING, 1-GANG FACEPLATE AND ONE 1" CONDUIT TO ABOVE ACCESSIBLE CEILING SPACE (AND IN OTHER INACCESSIBLE OR EXPOSED AREAS).
   - 5-8 JACKS: 2-GANG OUTLET BOX WITH 2-GANG FACEPLATE AND TWO 1" CONDUITS TO ABOVE ACCESSIBLE CEILING SPACE (AND IN OTHER INACCESSIBLE OR EXPOSED AREAS).
   - 9-12 JACKS: 3-GANG OUTLET BOX WITH 3-GANG FACEPLATE AND THREE 1" CONDUITS TO ABOVE ACCESSIBLE CEILING SPACE (AND IN OTHER INACCESSIBLE OR EXPOSED AREAS).
5. PROVIDE A NYLON BUSHING ON EACH END OF EACH CONDUIT (SPECIFIED WITHIN NOTE 4 ABOVE) TO PROTECT CABLES.
7. COMMUNICATION OUTLET SHALL BE LOCATED A MAXIMUM OF 8 INCHES FROM THE ADJACENT POWER OUTLET.
8. ALL AV CABLING TYPES SHALL BE CONFIRMED WITH OWNER PRIOR TO ORDERING MATERIALS.
9. COORDINATE LOCATION OF ALL OUTLETS AT PROJECTOR WITHIN PROJECTOR BASE WHERE POSSIBLE.




## DETAIL "E-FS"
## LAY-IN FIXTURE SUPPORT

SCALE : NONE




## DIAGRAM "E-SCH"
## STRUCTURED CABLING HORIZONTAL TYPICAL WIRING DIAGRAM

SCALE : NONE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| ISSUE | DATE |
|---|---|
| IFB SET | 05/27/2026 |

DRAWN BY: JRA
CHECKED BY: RCR

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ACCS
GMC ABHM250047

ALABAMA LICENSED PROFESSIONAL ENGINEER ROBERT C. RENFRO No. 24463
5.27.26

**ELECTRICAL DETAILS**

E5.02


2/25/2026 9:36:08 AM TEMPLATE VERSION: 2025.1

## LIGHTING FIXTURE SCHEDULE

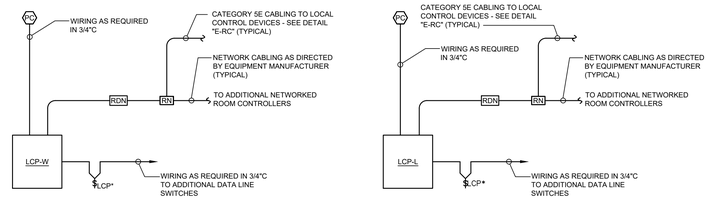
| MARK | MANUFACTURER | CATALOG NUMBER | VOLTAGE | LAMPS | | | MOUNTING HIEGHT | MOUNTING TYPE | REMARKS |
|---|---|---|---|---|---|---|---|---|---|
| | | | | WATTS | LUMENS | TYPE | | | |
| A3 | LITHONIA COLUMBIA DAY-BRITE | 2BTL4-30L-ADP-EZ1 | 120/277 | 24 | 3,000 | LED 3500K | CEILING | RECESSED GRID | |
| A3E | LITHONIA COLUMBIA DAY-BRITE | 2BTL4-30L-ADP-EZ1-EL | 120/277 | 24 | 3,000 | LED 3500K | CEILING | RECESSED GRID | EM |
| A4 | LITHONIA COLUMBIA DAY-BRITE | 2BTL4-40L-ADP-EZ1 | 120/277 | 32 | 4,000 | LED 3500K | CEILING | RECESSED GRID | |
| A5 | LITHONIA COLUMBIA DAY-BRITE | 2BTL4-48L-ADP-EZ1 | 120/277 | 39 | 4,800 | LED 3500K | CEILING | RECESSED GRID | |
| B3E | LITHONIA COLUMBIA DAY-BRITE | 2BTL2-33L-ADP-EZ1-EL | 120/277 | 27 | 3,300 | LED 3500K | CEILING | RECESSED | EM |
| B4 | LITHONIA COLUMBIA DAY-BRITE | 2BTL2-40L-ADP-EZ1 | 120/277 | 34 | 4,000 | LED 3500K | CEILING | RECESSED | |
| B4E | LITHONIA COLUMBIA DAY-BRITE | 2BTL2-40L-ADP-EZ1-E10W | 120/277 | 34 | 4,000 | LED 3500K | CEILING | RECESSED | EM |
| D10 | GOTHAM PRESCOLITE DAY-BRITE | EVO4-**/10-AR-LSS-WD-EZ1 | 120/277 | 9 | 1,000 | LED 3500K | CEILING | RECESSED | |
| D10E | GOTHAM PRESCOLITE DAY-BRITE | EVO4-**/10-AR-LSS-WD-EZ1-EL | 120/277 | 9 | 1,000 | LED 3500K | CEILING | RECESSED | EM |
| D15 | GOTHAM PRESCOLITE DAY-BRITE | EVO4-**/15-AR-LSS-WD-EZ1 | 120/277 | 14 | 1,500 | LED 3500K | CEILING | RECESSED | |
| D15E | GOTHAM PRESCOLITE DAY-BRITE | EVO4-**/15-AR-LSS-WD-EZ1-EL | 120/277 | 14 | 1,500 | LED 3500K | CEILING | RECESSED | |
| F4 | LITHONIA COLUMBIA DAY-BRITE | ZL1D-L48-3000LM-FST | 120/277 | 30 | 3,000 | LED 3500K | CEILING OR 10'-0" A.F.F. | SURFACE OR PENDANT | |
| F4E | LITHONIA COLUMBIA DAY-BRITE | ZL1D-L48-3000LM-FST-E15WLCP | 120/277 | 30 | 3,000 | LED 3500K | CEILING OR 10'-0" A.F.F. | SURFACE OR PENDANT | EM14 |
| G | LITHONIA WILLIAMS COOPER | FEL48-8000LM-IMAFL-MD-80CRI | 120/277 | 60 | 8,000 | LED 3500K | 11'-0" A.F.F. | PENDAT | |
| GE | LITHONIA WILLIAMS COOPER | FEL48-8000LM-IMAFL-MD-80CRI-EM | 120/277 | 60 | 8,000 | LED 3500K | 11'-0" A.F.F. | PENDAT | EM14 |
| H6 | PRUDENTIAL LEDALITE LITECONTROL | BPRO4-REC-FLSH-LED35-LO-6'-TMW-SAL-LP-SC-ND | 120/277 | 24 | 2,760 | LED 3500K | CEILING | RECESSED GYP | |
| H12 | PRUDENTIAL LEDALITE LITECONTROL | BPRO4-REC-FLSH-LED35-LO-12'-TMW-SAL-LP-SC-ND | 120/277 | 48 | 5,520 | LED 3500K | CEILING | RECESSED GYP | |
| L4 | VODE LIGHTING | 707-Z2-SL-48"-T4-0-RP***-AE-*-0-Z-HO-**-F5-0 -BL | 120/277 | 40 | 1,984 | LED 3500K | CLIPS ON GRID | SURFACE | FSA |
| P1 | BUZZISPACE | BUZZLIET US XL PENDANT | 120 | 29 | 2,545 | LED 3500K | AS DIRECTED BY ARCHITECT | PENDANT | FSA |
| S8 | PRUDENTIAL H.E. WILLIAMS LITECONTROL | BPRO4-LIN-FLSH-LED35-SO-8'-Y**-SAL-NU-SC-DM01 (SEE PLANS FOR TOTAL RUN LENGTH) | 120/277 | 63 | 7,400 | LED 3500K | 10'-6" A.F.F. | S.S. AIRCRAFT CABLE PENDANT | FCL, FSA |
| S8E | PRUDENTIAL H.E. WILLIAMS LITECONTROL | BPRO4-LIN-FLSH-LED35-SO-8'-Y**-SAL-NU-SC-DM01-EMHE (SEE PLANS FOR TOTAL RUN LENGTH) | 120/277 | 63 | 7,400 | LED 3500K | 10'-6" A.F.F. | S.S. AIRCRAFT CABLE PENDANT | EM14, FCL, FSA |
| SF | LITHONIA WILLIAMS COOPER | CSVT-L48-4000LM-80CRI | 120/277 | 32 | 4,000 | LED 4000K | CEILING | OUTLET BOX | FSA |
| SFE | LITHONIA WILLIAMS COOPER | CSVT-L48-4000LM-80CRI-IE7WCP | 120/277 | 32 | 4,000 | LED 4000K | CEILING | OUTLET BOX | EM, FSA |
| W | LITHONIA WILLIAMS COOPER | ARC1-P1-40K | 120/277 | 15 | 1,500 | LED 4000K | ABOVE DOOR | OUTLET BOX | FSA |
| WE | LITHONIA WILLIAMS COOPER | ARC1-P1-40K-E4WH | 120/277 | 15 | 1,500 | LED 4000K | ABOVE DOOR | OUTLET BOX | EM, FSA |
| X1 | LITHONIA COLUMBIA DAY-BRITE | EDGR-1-GMR-EL (WITH DIRECTIONAL ARROWS AS SHOWN ON PLANS) | 120/277 | 3 | N/A | LED | CEILING OR ABOVE DOOR | OUTLET | EMX |

**LIGHTING FIXTURE SCHEDULE GENERAL NOTES:**

1. CONTRACTOR SHALL COORDINATE ALL FIXTURE MOUNTING PROVISIONS WITH THE ASSOCIATED CEILING TYPE(S) PRIOR TO ORDERING FIXTURES.
2. ALL FIXTURES AND DRIVERS SHALL BE RATED FOR OPERATION IN AMBIENT TEMPERATURES UP TO 55 DEGREES CELSIUS.

**LIGHTING FIXTURE SCHEDULE KEYED NOTES:**

EM EMERGENCY FIXTURE. PROVIDE EMERGENCY BATTERY PACK RATED FOR AT LEAST 500 LUMENS.
EM14 EMERGENCY FIXTURE. PROVIDE EMERGENCY BATTERY PACK RATED FOR AT LEAST 1400 LUMENS.
EMX EMERGENCY FIXTURE. PROVIDE EMERGENCY BATTERY PACK RATED FOR AT LEAST 90 MINUTES OF OPERATION.
FCL FURNISH IN CONTINUOUS LENGTH AS REQUIRED TO MATCH LENGTH SHOWN ON PLANS. COORDINATE MOUNTING WITH CEILING SUPPLIER PRIOR TO BID. PROVIDE ALL YOKES AND OTHER MOUNTING ACCESSORIES AS REQUIRED
FSA PROVIDE FINISH AS SELECTED BY ARCHITECT.




## DETAIL "E-LCP" LIGHTING CONTROL PANEL RISER DIAGRAM

SCALE : NONE

### LIGHTING CONTROL PANEL SCHEDULE - LCP-W

| MARK | DESCRIPTION | PANEL | CIRCUIT | AUTOMATIC CONTROL | | OVERRIDE ON | | OVERRIDE OFF | | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | ON | OFF | STATION | BUTTON | STATION | BUTTON | |
| R1 | LIGHTING - EXTERIOR | LP-W | 2 | DUSK | DAWN | | | | | |
| R2 | SPARE | | | | | | | | | |
| R3 | SPARE | | | | | | | | | |
| R4 | SPARE | | | | | | | | | |
| R5 | SPARE | | | | | | | | | |
| R6 | SPARE | | | | | | | | | |
| R7 | SPARE | | | | | | | | | |
| R8 | SPARE | | | | | | | | | |
| R9 | SPARE | | | | | | | | | |
| R10 | SPARE | | | | | | | | | |
| R11 | SPARE | | | | | | | | | |
| R12 | SPARE | | | | | | | | | |
| R13 | SPARE | | | | | | | | | |
| R14 | SPARE | | | | | | | | | |
| R15 | SPARE | | | | | | | | | |
| R16 | SPARE | | | | | | | | | |

### LIGHTING CONTROL PANEL SCHEDULE - LCP-L

| MARK | DESCRIPTION | PANEL | CIRCUIT | AUTOMATIC CONTROL | | OVERRIDE ON | | OVERRIDE OFF | | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | ON | OFF | STATION | BUTTON | STATION | BUTTON | |
| R1 | LIGHTING - EXTERIOR | LP-L | 8 | DUSK | DAWN | | | | | |
| R2 | LIGHTING - EXTERIOR | LP-L | 10 | DUSK | DAWN | | | | | |
| R3 | LIGHTING - EXTERIOR | LP-L | 12 | DUSK | DAWN | | | | | |
| R4 | PRACTICE GYM LIGHTS | | | | | | | | | |
| R5 | SPARE | | | | | | | | | |
| R6 | SPARE | | | | | | | | | |
| R7 | SPARE | | | | | | | | | |
| R8 | SPARE | | | | | | | | | |
| R9 | SPARE | | | | | | | | | |
| R10 | SPARE | | | | | | | | | |
| R11 | SPARE | | | | | | | | | |
| R12 | SPARE | | | | | | | | | |
| R13 | SPARE | | | | | | | | | |
| R14 | SPARE | | | | | | | | | |
| R15 | SPARE | | | | | | | | | |
| R16 | SPARE | | | | | | | | | |

NOTES:
1. VERIFY SCHEDULING TIMES WITH OWNER PRIOR TO PROGRAMMING SYSTEM.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ALABAMA LICENSED PROFESSIONAL ENGINEER ROBERT C. RENFRO No. 24463
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**LIGHTING SCHEDULES**

**E5.03**


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## PANELBOARD SCHEDULE - RP-L2 (SECT. 1)

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| PANEL TYPE: | SQUARE 'D' TYPE NQ | | | AIC RATING: | 42KAIC (MINIMUM) | | | | | |
| VOLTAGE: | 120/208V-3P-4W | | | MOUNTING: | SURFACE | | | | | |
| AMPS & TYPE: | 225 AMP - MLO | | | LOCATION: | SEE PLANS | | | | | |
| FED FROM: | PP-L | | | FEEDER: | SEE PANELBOARD SCHEDULE - PP-L | | | | | |
| CKT. NO. | NOTES | BKR | DESCRIPTION | WATTS | PHASE | WATTS | DESCRIPTION | BKR | NOTES | CKT NO. |
| 1 | - | 20/1 | SPARE | | A | 1,000 | OUTLETS - CONVENIENCE | 20/1 | - | 2 |
| 3 | - | 20/1 | SPARE | | B | 1,000 | OUTLETS - CONVENIENCE | 20/1 | - | 4 |
| 5 | - | 20/1 | SPARE | | C | 1,000 | OUTLETS - CONVENIENCE | 20/1 | - | 6 |
| 7 | - | 20/1 | SPARE | | A | 1,000 | OUTLETS - WORK TABLE | 20/1 | - | 8 |
| 9 | - | 20/1 | SPARE | | B | 1,000 | OUTLETS - WORK TABLE | 20/1 | - | 10 |
| 11 | - | 20/1 | SPARE | | C | 1,000 | OUTLETS - WORK TABLE | 20/1 | - | 12 |
| 13 | - | 20/1 | SPARE | | A | 1,000 | OUTLETS - WORK TABLE | 20/1 | - | 14 |
| 15 | - | 20/1 | OUTLETS - STORAGE | 1,000 | B | 1,000 | OUTLETS - WORK TABLE | 20/1 | - | 16 |
| 17 | - | 20/1 | OUTLETS - STORAGE | 1,000 | C | 1,000 | OUTLETS - WORK TABLE | 20/1 | - | 18 |
| 19 | - | 20/1 | OUTLETS - STORAGE | 1,000 | A | 1,000 | OUTLETS - WORK TABLE | 20/1 | - | 20 |
| 21 | - | 20/1 | OUTLETS - STORAGE | 1,000 | B | 1,000 | OUTLETS - WORK TABLE | 20/1 | - | 22 |
| 23 | - | 20/1 | OUTLETS - STORAGE | 1,000 | C | 1,000 | OUTLETS - WORK TABLE | 20/1 | - | 24 |
| 25 | - | 20/1 | OUTLETS - STORAGE | 1,000 | A | 1,000 | OUTLETS - WORK TABLE | 20/1 | - | 26 |
| 27 | - | 15/3 | MOTORIZED OVERHEAD DOOR | 566 | B | 1,000 | OUTLETS - CONVENIENCE | 20/1 | - | 28 |
| 29 | - | \| | \| | 566 | C | 1,000 | OUTLETS - CONVENIENCE | 20/1 | - | 30 |
| 31 | - | \| | \| | 566 | A | | SPARE | 20/1 | - | 32 |
| 33 | - | 20/1 | OUTLETS - CONVENIENCE | 1,000 | B | | SPARE | 20/1 | - | 34 |
| 35 | - | 15/3 | MOTORIZED OVERHEAD DOOR | 566 | C | 1,000 | OUTLETS - CONVENIENCE | 20/1 | - | 36 |
| 37 | - | \| | \| | 566 | A | 1,200 | OUTLETS - HYDRA PNEUM BENCH | 20/1 | - | 38 |
| 39 | - | \| | \| | 566 | B | 1,200 | OUTLETS - HYDRA PNEUM BENCH | 20/1 | - | 40 |
| 41 | - | 20/1 | OUTLETS - CONVENIENCE | 1,000 | C | 1,200 | OUTLETS - HYDRA PNEUM BENCH | 20/1 | - | 42 |

### RP-L2 (SECT. 2)

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 43 | - | 20/1 | OUTLETS - HYDRA PNEUM BENCH | 1,200 | A | | - | 20/1 | - | 44 |
| 45 | - | 20/1 | OUTLETS - HYDRA PNEUM BENCH | 1,200 | B | | - | 20/1 | - | 46 |
| 47 | - | 20/1 | OUTLETS - HYDRA PNEUM BENCH | 1,200 | C | | - | 20/1 | - | 48 |
| 49 | - | 20/1 | OUTLETS - MECH. DRIVE TRAINER | 1,800 | A | | - | 20/1 | - | 50 |
| 51 | - | 20/1 | OUTLETS - MECH. DRIVE TRAINER | 1,800 | B | | - | 20/1 | - | 52 |
| 53 | - | 20/1 | OUTLETS - MECH. DRIVE TRAINER | 1,800 | C | | - | 20/1 | - | 54 |
| 55 | - | 20/1 | OUTLETS - MECH. DRIVE TRAINER | 1,000 | A | | - | 20/1 | - | 56 |
| 57 | - | 20/1 | OUTLETS - MECH. DRIVE TRAINER | 1,000 | B | | - | 20/1 | - | 58 |
| 59 | - | 20/1 | OUTLETS - MECH. DRIVE TRAINER | 1,000 | C | | - | 20/1 | - | 60 |
| 61 | - | 20/1 | OUTLETS - MECH. DRIVE TRAINER | 1,000 | A | | - | 20/1 | - | 62 |
| 63 | - | 20/1 | OUTLETS - MECH. DRIVE TRAINER | 1,000 | B | | - | 20/1 | - | 64 |
| 65 | - | 20/1 | OUTLETS - MECH. DRIVE TRAINER | 1,000 | C | | - | 20/1 | - | 66 |
| 67 | - | 20/1 | OUTLETS - MECH. DRIVE TRAINER | 1,000 | A | | - | 20/1 | - | 68 |
| 69 | - | 20/1 | OUTLETS - MECH. DRIVE TRAINER | 1,000 | B | | - | 20/1 | - | 70 |
| 71 | - | 20/1 | OUTLETS - MECH. DRIVE TRAINER | 1,000 | C | | - | 20/1 | - | 72 |
| 73 | - | 20/1 | OUTLETS - MECH. DRIVE TRAINER | 1,000 | A | | - | 20/1 | - | 74 |
| 75 | - | 20/1 | OUTLETS - MECH. DRIVE TRAINER | 1,000 | B | | - | 20/1 | - | 76 |
| 77 | - | 20/1 | OUTLETS - CONVENIENCE | 1,000 | C | | - | 20/1 | - | 78 |
| 79 | - | 20/1 | - | | A | | - | 20/1 | - | 80 |
| 81 | - | 20/1 | - | | B | | - | 20/1 | - | 82 |
| 83 | - | 20/1 | - | | C | | - | 20/1 | - | 84 |

| NOTES: | PH. A: | PH. B: | PH. C: | | |
|---|---|---|---|---|---|
| 1. PROVIDE INTEGRAL 160KA (PER PHASE) SPD. | 16,332 | 17,332 | 18,332 | TOTAL CONNECTED LOAD: | 52.0 KVA |
| 2. "GFCI" = GFI-TYPE BREAKER (5mA TRIP). | | | | | 144.4 AMPS |
| | | | | TOTAL DEMAND LOAD: | 31.0 KVA |
| | | | | | 86.1 AMPS |
| | | | | TOTAL COMPUTED LOAD: | 31.0 KVA |
| | | | | | 86.1 AMPS |

## PANELBOARD SCHEDULE - RP-S

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| PANEL TYPE: | SQUARE 'D' TYPE NQ | | | AIC RATING: | 14KAIC (MINIMUM) | | | | | |
| VOLTAGE | 120/208V-3P-4W | | | MOUNTING: | SURFACE | | | | | |
| AMPS & TYPE: | 60/3 MAIN BKR | | | LOCATION: | SEE PLANS | | | | | |
| FED FROM: | PP-L | | | FEEDER: | SEE PANELBOARD SCHEDULE - PP-L | | | | | |
| CKT. NO. | NOTES | BKR | DESCRIPTION | WATTS | PHASE | WATTS | DESCRIPTION | BKR | NOTES | CKT NO. |
| 1 | - | 20/1 | OUTLETS - STORAGE | 800 | A | 800 | OUTLETS - STORAGE | 20/1 | - | 2 |
| 3 | - | 20/1 | OUTLETS - STORAGE | 800 | B | 800 | OUTLETS - STORAGE | 20/1 | - | 4 |
| 5 | - | 20/1 | OUTLETS - STORAGE | 800 | C | 800 | OUTLETS - CONVENIENCE | 20/1 | - | 6 |
| 7 | - | 20/1 | OUTLETS - STORAGE | 800 | A | 300 | LIGHTING | 20/1 | - | 8 |
| 9 | - | 20/1 | OUTLETS - STORAGE | 800 | B | | - | 20/1 | - | 10 |
| 11 | - | 20/1 | OUTLETS - STORAGE | 800 | C | | - | 20/1 | - | 12 |
| 13 | - | 20/1 | SPARE | | A | | - | 20/1 | - | 14 |
| 15 | - | 20/1 | SPARE | | B | | - | 20/1 | - | 16 |
| 17 | - | 20/1 | SPARE | | C | | - | 20/1 | - | 18 |
| 19 | - | 20/1 | SPARE | | A | | - | 20/1 | - | 20 |
| 21 | - | 20/1 | - | | B | | - | 20/1 | - | 22 |
| 23 | - | 20/1 | - | | C | | - | 20/1 | - | 24 |
| 25 | - | 20/1 | - | | A | | - | 20/1 | - | 26 |
| 27 | - | 20/1 | - | | B | | - | 20/1 | - | 28 |
| 29 | - | 20/1 | - | | C | | - | 20/1 | - | 30 |

| NOTES: | PH. A: | PH. B: | PH. C: | | |
|---|---|---|---|---|---|
| 1. PROVIDE INTEGRAL 160KA (PER PHASE) SPD. | 2,700 | 2,400 | 2,400 | TOTAL CONNECTED LOAD: | 7.5 KVA |
| | | | | | 20.8 AMPS |
| | | | | TOTAL DEMAND LOAD: | 7.5 KVA |
| | | | | | 20.8 AMPS |
| | | | | TOTAL COMPUTED LOAD: | 7.6 KVA |
| | | | | | 21.0 AMPS |

## PANELBOARD SCHEDULE - RP-L1 (SECT. 1)

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| PANEL TYPE: | SQUARE 'D' TYPE NQ | | | AIC RATING: | 42KAIC (MINIMUM) | | | | | |
| VOLTAGE | 120/208V-3P-4W | | | MOUNTING: | SURFACE | | | | | |
| AMPS & TYPE: | 225 AMP - MLO | | | LOCATION: | SEE PLANS | | | | | |
| FED FROM: | PP-L | | | FEEDER: | SEE PANELBOARD SCHEDULE - PP-L | | | | | |
| CKT. NO. | NOTES | BKR | DESCRIPTION | WATTS | PHASE | WATTS | DESCRIPTION | BKR | NOTES | CKT NO. |
| 1 | - | 20/1 | SPARE | | A | 1,000 | OUTLET - WORK TABLE | 20/1 | - | 2 |
| 3 | - | 20/1 | SPARE | | B | 1,000 | OUTLET - WORK TABLE | 20/1 | - | 4 |
| 5 | - | 20/1 | SPARE | | C | 1,000 | OUTLET - WORK TABLE | 20/1 | - | 6 |
| 7 | - | 20/1 | OUTLET - WORK TABLE | 1,000 | A | 1,000 | OUTLET - WORK TABLE | 20/1 | - | 8 |
| 9 | - | 20/1 | OUTLET - WORK TABLE | 1,000 | B | 1,000 | OUTLET - WORK TABLE | 20/1 | - | 10 |
| 11 | - | 20/1 | OUTLET - WORK TABLE | 1,000 | C | 1,000 | OUTLET - WORK TABLE | 20/1 | - | 12 |
| 13 | - | 20/1 | OUTLET - WORK TABLE | 1,000 | A | 1,000 | OUTLET - WORK TABLE | 20/1 | - | 14 |
| 15 | - | 20/1 | OUTLET - WORK TABLE | 1,000 | B | 1,000 | OUTLET - WORK TABLE | 20/1 | - | 16 |
| 17 | - | 20/1 | OUTLET - WORK TABLE | 1,000 | C | 1,000 | OUTLET - WORK TABLE | 20/1 | - | 18 |
| 19 | - | 20/1 | OUTLET - WORK TABLE | 1,000 | A | 1,000 | OUTLET - WORK TABLE | 20/1 | - | 20 |
| 21 | - | 20/1 | OUTLET - WORK TABLE | 1,000 | B | 1,000 | OUTLET - WORK TABLE | 20/1 | - | 22 |
| 23 | - | 20/1 | OUTLET - WORK TABLE | 1,000 | C | 1,000 | OUTLET - WORK TABLE | 20/1 | - | 24 |
| 25 | - | 20/1 | OUTLET - WORK TABLE | 1,000 | A | 566 | MOTORIZED OVERHEAD DOOR | 15/3 | - | 26 |
| 27 | - | 20/1 | OUTLET - WORK TABLE | 1,000 | B | 566 | \| | \| | - | 28 |
| 29 | - | 20/1 | OUTLET - WORK TABLE | 1,000 | C | 566 | \| | \| | - | 30 |
| 31 | - | 20/1 | OUTLET - WORK TABLE | 1,000 | A | 566 | MOTORIZED OVERHEAD DOOR | 15/3 | - | 32 |
| 33 | - | 20/1 | OUTLET - WORK TABLE | 1,000 | B | 566 | \| | \| | - | 34 |
| 35 | - | 20/1 | OUTLET - WORK TABLE | 1,000 | C | 566 | \| | \| | - | 36 |
| 37 | - | 20/1 | OUTLET - WORK TABLE | 1,000 | A | 1,000 | OUTLET - WORK TABLE | 20/1 | - | 38 |
| 39 | - | 20/1 | OUTLET - WORK TABLE | 1,000 | B | 1,000 | OUTLET - RES TRAINER | 20/1 | - | 40 |
| 41 | - | 20/1 | OUTLET - WORK TABLE | 1,000 | C | 1,000 | OUTLET - RES TRAINER | 20/1 | - | 42 |

### RP-L1 (SECT. 2)

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 43 | HT | 20/1 | OUTLET - MECHATRONICS | 800 | A | 1,000 | OUTLET - RES TRAINER | 20/1 | - | 44 |
| 45 | | 20/1 | OUTLET - MECHATRONICS | 800 | B | 1,000 | OUTLET - RES TRAINER | 20/1 | - | 46 |
| 47 | HT | 20/1 | OUTLET - MECHATRONICS | 800 | C | 1,000 | OUTLET - WORK TABLE | 20/1 | - | 48 |
| 49 | | 20/1 | OUTLET - MECHATRONICS | 800 | A | 1,000 | OUTLET - WORK TABLE | 20/1 | - | 50 |
| 51 | HT | 20/1 | OUTLET - MECHATRONICS | 800 | B | 1,000 | OUTLET - WORK TABLE | 20/1 | - | 52 |
| 53 | | 20/1 | OUTLET - MECHATRONICS | 800 | C | 1,000 | OUTLET - WORK TABLE | 20/1 | - | 54 |
| 55 | HT | 20/1 | OUTLET - MECHATRONICS | 800 | A | 1,000 | OUTLET - ASSEMBLY CELL | 30/1 | - | 56 |
| 57 | | 20/1 | OUTLET - MECHATRONICS | 800 | B | 1,000 | OUTLET - ASSEMBLY CELL | 30/1 | - | 58 |
| 59 | HT | 20/1 | OUTLET - MECHATRONICS | 800 | C | 1,000 | OUTLET - ASSEMBLY CELL | 30/1 | - | 60 |
| 61 | | 20/1 | OUTLET - MECHATRONICS | 800 | A | 1,000 | OUTLET - PLC | 30/1 | - | 62 |
| 63 | HT | 20/1 | OUTLET - MECHATRONICS | 800 | B | 1,000 | OUTLET - PLC | 30/1 | - | 64 |
| 65 | | 20/1 | OUTLET - MECHATRONICS | 800 | C | 1,000 | OUTLET - PLC | 30/1 | - | 66 |
| 67 | HT | 20/1 | OUTLET - MECHATRONICS | 800 | A | 1,000 | OUTLET - PLC | 30/1 | - | 68 |
| 69 | | 20/1 | OUTLET - MECHATRONICS | 800 | B | 1,000 | OUTLET - INSTRUMENT TRAINER | 20/1 | - | 70 |
| 71 | HT | 20/1 | OUTLET - MECHATRONICS | 800 | C | 1,000 | OUTLET - INSTRUMENT TRAINER | 20/1 | - | 72 |
| 73 | | 20/1 | OUTLET - MECHATRONICS | 800 | A | 1,000 | OUTLET - INSTRUMENT TRAINER | 20/1 | - | 74 |
| 75 | HT | 20/1 | OUTLET - MECHATRONICS | 800 | B | 1,000 | OUTLET - MCC TRAINER | 20/1 | - | 76 |
| 77 | | 20/1 | OUTLET - MECHATRONICS | 800 | C | 1,000 | OUTLET - MCC TRAINER | 20/1 | - | 78 |
| 79 | HT | 20/1 | OUTLET - MECHATRONICS | 800 | A | 1,000 | OUTLET - MCC TRAINER | 20/1 | - | 80 |
| 81 | | 20/1 | OUTLET - MECHATRONICS | 800 | B | 1,000 | OUTLET - MCC TRAINER | 20/1 | - | 82 |
| 83 | - | 20/1 | SPARE | | C | 1,000 | OUTLET - MCC TRAINER | 20/1 | - | 84 |

### RP-L1 (SECT. 3)

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 85 | - | 20/3 | RES TRAINER | 1,000 | A | 1,000 | RES TRAINER | 20/3 | - | 86 |
| 87 | - | \| | \| | 1,000 | B | 1,000 | \| | \| | - | 88 |
| 89 | - | \| | \| | 1,000 | C | 1,000 | \| | \| | - | 90 |
| 91 | - | 20/3 | RES TRAINER | 1,000 | A | 1,000 | RES TRAINER | 20/3 | - | 92 |
| 93 | - | \| | \| | 1,000 | B | 1,000 | \| | \| | - | 94 |
| 95 | - | \| | \| | 1,000 | C | 1,000 | \| | \| | - | 96 |
| 97 | - | 20/3 | MCC TRAINER | 1,000 | A | 1,000 | MCC TRAINER | 20/3 | - | 98 |
| 99 | - | \| | \| | 1,000 | B | 1,000 | \| | \| | - | 100 |
| 101 | - | \| | \| | 1,000 | C | 1,000 | \| | \| | - | 102 |
| 103 | - | 20/3 | MCC TRAINER | 1,000 | A | 1,000 | MCC TRAINER | 20/3 | - | 104 |
| 105 | - | \| | \| | 1,000 | B | 1,000 | \| | \| | - | 106 |
| 107 | - | \| | \| | 1,000 | C | 1,000 | \| | \| | - | 108 |
| 109 | - | 20/3 | MCC TRAINER | 1,000 | A | 1,000 | OUTLET - ROBOTICS | 20/1 | - | 110 |
| 111 | - | \| | \| | 1,000 | B | 1,000 | OUTLET - ROBOTICS | 20/1 | - | 112 |
| 113 | - | \| | \| | 1,000 | C | | SPARE | | - | 114 |
| 115 | - | 20/1 | SPARE | | A | | SPARE | | - | 116 |
| 117 | - | 20/1 | SPARE | | B | | SPARE | 20/1 | - | 118 |
| 119 | - | 20/1 | SPARE | | C | | SPARE | 20/1 | - | 120 |
| 121 | - | 20/1 | SPARE | | A | | SPARE | 20/1 | - | 122 |
| 123 | - | 20/1 | SPARE | | B | | SPARE | 20/1 | - | 124 |
| 125 | - | 20/1 | SPARE | | C | | SPARE | 20/1 | - | 126 |

| NOTES: | PH. A: | PH. B: | PH. C: | | |
|---|---|---|---|---|---|
| 1. PROVIDE INTEGRAL 160KA (PER PHASE) SPD. | 34,732 | 34,732 | 32,932 | TOTAL CONNECTED LOAD: | 102.4 KVA |
| 2. "GFCI" = GFI-TYPE BREAKER (5mA TRIP). | | | | | 284.4 AMPS |
| 3. "HT" = HANDLE-TIE ACROSS INDICATED BREAKERS. | | | | TOTAL DEMAND LOAD: | 56.2 KVA |
| | | | | | 156.1 AMPS |
| | | | | TOTAL COMPUTED LOAD: | 56.2 KVA |
| | | | | | 156.1 AMPS |

## PANELBOARD SCHEDULE - LP-L (SECT. 1)

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| PANEL TYPE: | SQUARE 'D' TYPE NQ | | | AIC RATING: | 42KAIC (MINIMUM) | | | | | |
| VOLTAGE | 120/208V-3P-4W | | | MOUNTING: | SURFACE | | | | | |
| AMPS & TYPE: | 225 AMP - MLO | | | LOCATION: | SEE PLANS | | | | | |
| FED FROM: | PP-L | | | FEEDER: | SEE PANELBOARD SCHEDULE - PP-L | | | | | |
| CKT. NO. | NOTES | BKR | DESCRIPTION | WATTS | PHASE | WATTS | DESCRIPTION | BKR | NOTES | CKT NO. |
| 1 | - | 20/1 | LIGHTING - LAB/OFFICES | 500 | A | 1,600 | LIGHTING - LAB | 20/1 | - | 2 |
| 3 | - | 20/1 | LIGHTING - LAB | 800 | B | 1,600 | LIGHTING - LAB | 20/1 | - | 4 |
| 5 | - | 20/1 | LIGHTING - CLASSROOMS | 1,600 | C | 1,400 | LIGHTING - LAB | 20/1 | - | 6 |
| 7 | - | 20/1 | LIGHTING - LAB | 630 | A | 300 | LIGHTING - EXTERIOR | 20/1 | LCP | 8 |
| 9 | - | 20/1 | LIGHTING - OFFICES | 500 | B | 300 | LIGHTING - EXTERIOR | 20/1 | LCP | 10 |
| 11 | - | 20/1 | LIGHTING - ENTRY LOBBY/RR | 1,400 | C | 300 | LIGHTING - EXTERIOR | 20/1 | LCP | 12 |
| 13 | - | 20/1 | OFFICE RECEPTACLES | 1,000 | A | 800 | OFFICE RECEPTACLES | 20/1 | - | 14 |
| 15 | - | 20/1 | RECEPTACLES | 800 | B | 800 | RECEPTACLES | 20/1 | - | 16 |
| 17 | - | 20/1 | RECEPTACLES | 1,200 | C | 1,400 | RECEPTACLES | 20/1 | - | 18 |
| 19 | - | 20/1 | RECEPTACLES | 1,400 | A | 1,200 | RECEPTACLES | 20/1 | - | 20 |
| 21 | - | 20/1 | RECEPTACLES | 1,200 | B | 1,000 | DRINKING FOUNTAINS | 20/1 | GFCI | 22 |
| 23 | - | 20/1 | TBB-L | 1,000 | C | 1,000 | TBB-L | 20/1 | - | 24 |
| 25 | - | 20/1 | TBB-L | 1,000 | A | 1,000 | TBB-L | 20/1 | - | 26 |
| 27 | - | 30/2 | TBB-L | 1,500 | B | 500 | FACP | 20/1 | LON | 28 |
| 29 | - | \| | \| | 1,500 | C | 200 | BDA | 20/1 | LON | 30 |
| 31 | - | 20/1 | TBB-L | 1,000 | A | 200 | BDA | 20/1 | LON | 32 |
| 33 | - | 20/1 | OFFICE RECEPTACLES | 1,000 | B | 700 | EF=2 | 20/1 | - | 34 |
| 35 | - | 20/1 | CLASSROOM RECEPTACLES | 1,000 | C | | SPARE | 20/1 | - | 36 |
| 37 | - | 20/1 | CLASSROOM RECEPTACLES | 1,200 | A | | SPARE | 20/1 | - | 38 |
| 39 | - | 20/1 | CLASSROOM RECEPTACLES | 1,200 | B | | SPARE | 20/1 | - | 40 |
| 41 | - | 20/1 | SPARE | | C | | SPARE | 20/1 | - | 42 |

### LP-L (SECT. 2)

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 43 | - | 30/1 | B-1 | 1,800 | A | 2,000 | CU-2 | 35/2 | - | 44 |
| 45 | - | 20/1 | CH-1 CONTROL PANEL | 500 | B | 2,000 | \| | \| | - | 46 |
| 47 | EGFI | 20/1 | HEAT TRACING | 1,000 | C | 600 | VAV | 20/1 | - | 48 |
| 49 | - | 20/1 | DH-1 | 1,000 | A | 600 | VAV | 20/1 | - | 50 |
| 51 | - | 20/1 | DH-2 | 1,000 | B | 600 | VAV | 20/1 | - | 52 |
| 53 | - | 30/2 | EWH-2 | 2,500 | C | 2,000 | CU-3 | 35/2 | - | 54 |
| 55 | - | \| | \| | 2,500 | A | 2,000 | \| | \| | - | 56 |
| 57 | - | 20/1 | AIR COMPRESSOR DRYER | 800 | B | | | 20/1 | - | 58 |
| 59 | - | 20/1 | | | C | | | 20/1 | - | 60 |
| 61 | - | 20/1 | | | A | | | 20/1 | - | 62 |
| 63 | - | 20/1 | | | B | | | 20/1 | - | 64 |
| 65 | - | 20/1 | | | C | | | 20/1 | - | 66 |
| 67 | - | 20/1 | | | A | | | 20/1 | - | 68 |
| 69 | - | 20/1 | | | B | | | 20/1 | - | 70 |
| 71 | - | 20/1 | | | C | | | 20/1 | - | 72 |
| 73 | - | 20/1 | | | A | | | 20/1 | - | 74 |
| 75 | - | 20/1 | | | B | | | 20/1 | - | 76 |
| 77 | - | 20/1 | | | C | | | 20/1 | - | 78 |
| 79 | - | 20/1 | | | A | | | 20/1 | - | 80 |
| 81 | - | 20/1 | | | B | | | 20/1 | - | 82 |
| 83 | - | 20/1 | | | C | | | 20/1 | - | 84 |

| NOTES: | PH. A: | PH. B: | PH. C: | | |
|---|---|---|---|---|---|
| 1. PROVIDE INTEGRAL 160KA (PER PHASE) SPD. | 21,730 | 16,800 | 18,100 | TOTAL CONNECTED LOAD: | 56.6 KVA |
| 2. "LON" = "LOCK-ON" HARDWARE | | | | | 157.3 AMPS |
| 3. "LCP" = CONNECT THROUGH LTG CONTROL PANEL. | | | | TOTAL DEMAND LOAD: | 50.4 KVA |
| 4. "GFCI" = GFI-TYPE BREAKER (5mA TRIP). | | | | | 140.1 AMPS |
| 5. "EGFI" = GFI-EPD TYPE BREAKER (30mA TRIP) | | | | TOTAL COMPUTED LOAD: | 53.2 KVA |
| | | | | | 147.7 AMPS |

## PANELBOARD SCHEDULE - PP-L

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| PANEL TYPE: | SQUARE 'D' HLINE SERIES | | | | | | AIC RATING: | 65KAIC (MINIMUM) | | |
| VOLTAGE: | 120/208V-3P-4W | | | | | | MOUNTING: | SURFACE | | |
| AMPS & TYPE: | 800/3 MAIN BKR | | | | | | LOCATION: | SEE PLANS | | |
| FED FROM: | UTILITY | | | | | | FEEDER: | 3 SETS OF 4-300MCM - 3"C | | |
| CIR. NO. | DESCRIPTION | VOLTS | P | HP | KW OR KVA | AMPS | BKR SIZE | LOCAL SAFETY SW. RATING | WIRE AND COND. SIZE | REMARKS |
| 1 | RP-L1 | 120/208 | 3 | | 56.2 | | 225/3 | - | 4#4/0 & 1#4G - 2 1/2"C | NOTE 3 |
| 2 | RP-L2 | 120/208 | 3 | | 31.0 | | 225/3 | - | 4#4/0 & 1#4G - 2 1/2"C | NOTE 3 |
| 3 | LP-L | 120/208 | 3 | | 53.2 | | 225/3 | - | 4#4/0 & 1#4G - 2 1/2"C | |
| 4 | RP-S | 120/208 | 3 | | 7.6 | | 60/3 | - | 4#6 & 1#10G - 1 1/4"C | |
| 5 | CH-1 | 208 | 3 | | | 237.6 | 350/3 | 400/3 - F350 | 3-350MCM & 1#4G - 3"C | |
| 6 | AHU-1 | 208 | 3 | | | 53.6 | 90/3 | 100/3 - F90 | 3#4 & 1#8G - 1 1/4"C | |
| 7 | HWP-1 | 208 | 3 | 1 1/2 | | | 15/3 | 30/3 | 3#12 & 1#12G - 3/4"C | |
| 8 | HWP-2 | 208 | 3 | 1 1/2 | | | 15/3 | 30/3 | 3#12 & 1#12G - 3/4"C | |
| 9 | CA-1 | 208 | 3 | 20 | | | 125/3 | 200/3 | 3#3 & 1#6G - 1 1/4"C | |
| 10 | SPACE | | 3 | | | | -/3 | - | | |
| 11 | SPACE | | 3 | | | | -/3 | - | | |
| 12 | SPACE | | 3 | | | | -/3 | - | | |

| | | | |
|---|---|---|---|
| | TOTAL CONNECTED LOAD: | 349.5 KVA | NOTES: |
| | | 970.9 AMPS | 1. PROVIDE INTEGRAL 240KA (PER PHASE) SPD. |
| | TOTAL DEMAND LOAD: | 262.5 KVA | 2. PANEL SHALL BE SERVICE-ENTRANCE RATED. |
| | | 729.3 AMPS | 3. BREAKER SHALL BE SHUNT-TRIP TYPE. |
| | TOTAL COMPUTED LOAD: | 265.3 KVA | |
| | | 737.1 AMPS | |


GMC

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2400 5th Avenue South, Suite 200
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| ISSUE | DATE |
|---|---|
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DRAWN BY: JRA
CHECKED BY: RCR

**REID STATE CC WELDING & INDUSTRIAL RENO.**
100 AL-83, Evergreen, AL 36401

ACCS
GMC ABHM250047

ALABAMA LICENSED PROFESSIONAL ENGINEER ROBERT C. RENFRO No. 24465
5.27.26

**ELECTRICAL SCHEDULES**

**E6.01**


JACKSON, RENFRO & ASSOCIATES, INC.
ELECTRICAL ENGINEERING & DESIGN
111 INVERNESS CENTER PKWY • SUITE 300 • BIRMINGHAM, AL • 35242

ROBERT RENFRO, PE
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JRA JOB NO. 225268



2/25/2026 9:36:08 AM TEMPLATE VERSION: 2025.1

## PANELBOARD SCHEDULE - RP-WA (SECT. 1)

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| PANEL TYPE: | SQUARE 'D' TYPE NQ | | | AIC RATING: | 10KAIC (MINIMUM) | | | | |
| VOLTAGE: | 120/208V-3P-4W | | | MOUNTING: | SURFACE | | | | |
| AMPS & TYPE: | 125/3 MAIN BKR | | NOTE 3 | LOCATION: | SEE PLANS | | | | |
| FED FROM: | RP-W | | | FEEDER: | SEE PANELBOARD SCHEDULE - RP-W | | | | |
| CKT. NO. | NOTES | BKR | DESCRIPTION | WATTS | PHASE | WATTS | DESCRIPTION | BKR | NOTES | CKT NO. |
| 1 | - | 20/1 | OUTLETS - CONVENIENCE | 1,000 | A | 1,200 | OUTLETS - OFFICE | 20/1 | - | 2 |
| 3 | - | 20/1 | OUTLETS - CONVENIENCE | 1,000 | B | 1,200 | OUTLETS - CLASSROOM | 20/1 | - | 4 |
| 5 | - | 20/1 | OUTLETS - WELDING BOOTH | 1,000 | C | 1,200 | OUTLETS - CLASSROOM | 20/1 | - | 6 |
| 7 | - | 20/1 | OUTLETS - WELDING BOOTH | 1,000 | A | 1,000 | OUTLETS - CONVENIENCE | 20/1 | - | 8 |
| 9 | - | 20/1 | SPARE | | B | 1,000 | OUTLETS - TOOL STORAGE | 20/1 | - | 10 |
| 11 | - | 20/1 | SPARE | | C | 1,000 | OUTLETS - TOOL STORAGE | 20/1 | - | 12 |
| 13 | - | 20/1 | SPARE | | A | 1,000 | OUTLETS - TOOL STORAGE | 20/1 | - | 14 |
| 15 | - | 20/1 | SPARE | | B | 1,000 | OUTLETS - TOOL STORAGE | 20/1 | - | 16 |
| 17 | - | 20/1 | SPARE | | C | 1,000 | OUTLETS - TOOL STORAGE | 20/1 | - | 18 |
| 19 | - | 20/1 | SPARE | | A | 1,000 | OUTLETS - TOOL STORAGE | 20/1 | - | 20 |
| 21 | - | 20/1 | SPARE | | B | 1,000 | OUTLETS - TOOL STORAGE | 20/1 | - | 22 |
| 23 | - | 20/1 | SPARE | | C | 1,000 | OUTLETS - TOOL STORAGE | 20/1 | - | 24 |
| 25 | - | 20/1 | SPARE | | A | 1,800 | WELDING EXHAUST ARC/DAMPERS | 20/1 | - | 26 |
| 27 | - | 20/1 | SPARE | | B | 1,800 | WELDING EXHAUST ARC/DAMPERS | 20/1 | - | 28 |
| 29 | - | 20/1 | SPARE | | C | 1,800 | WELDING EXHAUST ARC/DAMPERS | 20/1 | - | 30 |
| 31 | - | 20/1 | SPARE | | A | 1,800 | WELDING EXHAUST ARC/DAMPERS | 20/1 | - | 32 |
| 33 | - | 20/1 | SPARE | | B | 1,800 | WELDING EXHAUST ARC/DAMPERS | 20/1 | - | 34 |
| 35 | - | 20/1 | SPARE | | C | 1,000 | OUTLETS - WELDING BOOTH | 20/1 | - | 36 |
| 37 | - | 20/1 | SPARE | | A | 1,000 | OUTLETS - WELDING BOOTH | 20/1 | - | 38 |
| 39 | - | 20/1 | SPARE | | B | 1,000 | OUTLETS - WELDING BOOTH | 20/1 | - | 40 |
| 41 | - | 20/1 | SPARE | | C | | SPARE | 20/1 | - | 42 |
| RP-WA (SECT. 2) | | | | | | | | | | |
| 43 | - | 20/1 | OUTLETS - WELDING BOOTH | 1,000 | A | 1,000 | OUTLETS - GENERAL | 20/1 | - | 44 |
| 45 | - | 20/1 | OUTLETS - WELDING BOOTH | 1,000 | B | 1,000 | OUTLETS - GENERAL | 20/1 | - | 46 |
| 47 | - | 20/1 | OUTLETS - WELDING BOOTH | 1,000 | C | 1,000 | OUTLETS - GENERAL | 20/1 | - | 48 |
| 49 | - | 20/1 | OUTLETS - WELDING BOOTH | 1,000 | A | 1,536 | OUTLET - TENSIL TESTER | 20/1 | - | 50 |
| 51 | - | 20/1 | OUTLETS - WELDING BOOTH | 1,000 | B | 1,000 | OUTLET - WELD TEST | 20/1 | - | 52 |
| 53 | - | 20/1 | OUTLETS - WELDING BOOTH | 1,000 | C | 2,034 | OUTLET - IRON WORKER | 40/3 | - | 54 |
| 55 | - | 20/1 | OUTLETS - WELDING BOOTH | 1,000 | A | 2,034 | \| | \| | - | 56 |
| 57 | - | 20/1 | OUTLETS - WELDING BOOTH | 1,000 | B | 2,034 | \| | \| | - | 58 |
| 59 | - | 20/1 | OUTLETS - WELDING BOOTH | 1,000 | C | 2,034 | OUTLET - BAND SAW | 40/3 | - | 60 |
| 61 | - | 20/1 | OUTLETS - WELDING BOOTH | 1,000 | A | 2,034 | \| | \| | - | 62 |
| 63 | - | 20/1 | OUTLETS - WELDING BOOTH | 1,000 | B | 2,034 | \| | \| | - | 64 |
| 65 | - | 20/1 | OUTLETS - WELDING BOOTH | 1,000 | C | 1,500 | ROD OVEN | 20/1 | GFCI | 66 |
| 67 | - | 20/1 | OUTLETS - WELDING BOOTH | 1,000 | A | 566 | MOTORIZED OVERHEAD DOOR | 15/3 | - | 68 |
| 69 | - | 20/1 | OUTLETS - WELDING BOOTH | 1,000 | B | 566 | \| | \| | - | 70 |
| 71 | - | 20/1 | OUTLETS - WELDING BOOTH | 1,000 | C | 566 | \| | \| | - | 72 |
| 73 | - | 20/1 | OUTLETS - WELDING BOOTH | 1,000 | A | 1,000 | OUTLETS - CONVENIENCE | 20/1 | - | 74 |
| 75 | - | 20/1 | OUTLETS - WELDING BOOTH | 1,000 | B | 1,000 | OUTLETS - CONVENIENCE | 20/1 | - | 76 |
| 77 | - | 20/1 | OUTLETS - WELDING BOOTH | 1,000 | C | | SPARE | 20/1 | - | 78 |
| 79 | - | 20/1 | OUTLETS - FAB/WORK TABLE | 1,000 | A | 1,000 | OUTLETS - CONVENIENCE | 20/1 | - | 80 |
| 81 | - | 20/1 | OUTLETS - FAB/WORK TABLE | 1,000 | B | 1,000 | OUTLETS - CONVENIENCE | 20/1 | - | 82 |
| 83 | - | 20/1 | OUTLETS - FAB/WORK TABLE | 1,000 | C | | SPARE | 20/1 | - | 84 |

| NOTES: | PH. A | PH. B | PH. C | | |
|---|---|---|---|---|---|
| 1. PROVIDE INTEGRAL 160KA (PER PHASE) SPD. | 26,970 | 25,434 | 22,134 | TOTAL CONNECTED LOAD: | 74.5 KVA |
| 2. "GFCI" = GFI-TYPE BREAKER (5mA TRIP). | | | | | 207.1 AMPS |
| 3. FURNISH WITH SHUNT-TRIP MAIN BREAKER. | | | | TOTAL DEMAND LOAD: | 42.8 KVA |
| | | | | | 118.8 AMPS |
| | | | | TOTAL COMPUTED LOAD: | 42.8 KVA |
| | | | | | 118.8 AMPS |

## PANELBOARD SCHEDULE - RP-WB (SECT. 1)

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| PANEL TYPE: | SQUARE 'D' TYPE NQ | | | AIC RATING: | 10KAIC (MINIMUM) | | | | |
| VOLTAGE: | 120/208V-3P-4W | | | MOUNTING: | SURFACE | | | | |
| AMPS & TYPE: | 225/3 MAIN BKR | | NOTE 3 | LOCATION: | SEE PLANS | | | | |
| FED FROM: | RP-W | | | FEEDER: | SEE PANELBOARD SCHEDULE - RP-W | | | | |
| CKT. NO. | NOTES | BKR | DESCRIPTION | WATTS | PHASE | WATTS | DESCRIPTION | BKR | NOTES | CKT NO. |
| 1 | - | 20/1 | OUTLETS - WELDING BOOTH | 1,000 | A | 1,000 | OUTLETS - FAB/WORK TABLE | 20/1 | - | 2 |
| 3 | - | 20/1 | OUTLETS - WELDING BOOTH | 1,000 | B | 1,000 | OUTLETS - FAB/WORK TABLE | 20/1 | - | 4 |
| 5 | - | 20/1 | OUTLETS - WELDING BOOTH | 1,000 | C | 1,000 | OUTLETS - FAB/WORK TABLE | 20/1 | - | 6 |
| 7 | - | 20/1 | OUTLETS - WELDING BOOTH | 1,000 | A | 1,000 | OUTLETS - CONVENIENCE | 20/1 | - | 8 |
| 9 | - | 20/1 | OUTLETS - WELDING BOOTH | 1,000 | B | 1,000 | OUTLETS - CONVENIENCE | 20/1 | - | 10 |
| 11 | - | 20/1 | OUTLETS - WELDING BOOTH | 1,000 | C | 200 | OUTLETS - CONVENIENCE | 20/1 | - | 12 |
| 13 | - | 20/1 | OUTLETS - WELDING BOOTH | 1,000 | A | 1,000 | OUTLETS - CONVENIENCE | 20/1 | - | 14 |
| 15 | - | 20/1 | OUTLETS - WELDING BOOTH | 1,000 | B | 1,000 | OUTLETS - WELDING BOOTH | 20/1 | - | 16 |
| 17 | - | 20/1 | OUTLETS - WELDING BOOTH | 1,000 | C | 1,000 | OUTLETS - WELDING BOOTH | 20/1 | - | 18 |
| 19 | - | 20/1 | OUTLETS - WELDING BOOTH | 1,000 | A | 1,000 | OUTLETS - WELDING BOOTH | 20/1 | - | 20 |
| 21 | - | 20/1 | OUTLETS - WELDING BOOTH | 1,000 | B | 1,000 | OUTLETS - CONVENIENCE | 30/1 | - | 22 |
| 23 | - | 20/1 | OUTLETS - WELDING BOOTH | 1,000 | C | 1,000 | OUTLETS - CONVENIENCE | 20/1 | - | 24 |
| 25 | - | 20/1 | OUTLETS - WELDING BOOTH | 1,000 | A | 1,200 | OUTLET - MANUAL PLASMA CUTTER | 20/1 | - | 26 |
| 27 | - | 20/1 | OUTLETS - WELDING BOOTH | 1,000 | B | 1,000 | OUTLETS - CONVENIENCE | 20/1 | - | 28 |
| 29 | - | 20/1 | WELDING EXHAUST ARC/DAMPERS | 1,800 | C | 1,000 | OUTLETS - CONVENIENCE | 20/1 | - | 30 |
| 31 | - | 20/1 | WELDING EXHAUST ARC/DAMPERS | 1,800 | A | 1,000 | OUTLETS - CONVENIENCE | 20/1 | - | 32 |
| 33 | - | 20/1 | WELDING EXHAUST ARC/DAMPERS | 1,800 | B | | SPARE | 20/1 | - | 34 |
| 35 | - | 20/1 | WELDING EXHAUST ARC/DAMPERS | 1,800 | C | | SPARE | 20/1 | - | 36 |
| 37 | - | 20/1 | OUTLETS - FAB/WORK TABLE | 1,000 | A | 1,800 | OUTLET - CNC PLASMA TABLE | 20/1 | - | 38 |
| 39 | - | 20/1 | OUTLETS - FAB/WORK TABLE | 1,000 | B | 1,000 | OUTLETS - CONVENIENCE | 20/1 | - | 40 |
| 41 | - | 20/1 | OUTLETS - FAB/WORK TABLE | 1,000 | C | | SPARE | 20/1 | - | 42 |
| RP-WB (SECT. 2) | | | | | | | | | | |
| 43 | - | 20/1 | OUTLETS - CONVENIENCE | 1,000 | A | | SPARE | 20/1 | - | 44 |
| 45 | - | 20/1 | OUTLETS - CONVENIENCE | 1,000 | B | | - | 20/1 | - | 46 |
| 47 | - | 20/1 | OUTLETS - CONVENIENCE | 1,000 | C | | - | 20/1 | - | 48 |
| 49 | - | 20/1 | OUTLETS - CONVENIENCE | 1,000 | A | | - | 20/1 | - | 50 |
| 51 | - | 20/1 | OUTLETS - CONVENIENCE | 1,000 | B | | - | 20/1 | - | 52 |
| 53 | - | 15/3 | MOTORIZED OVERHEAD DOOR | 566 | C | | - | 20/1 | - | 54 |
| 55 | - | \| | \| | 566 | A | | - | 20/1 | - | 56 |
| 57 | - | \| | \| | 566 | B | | - | 20/1 | - | 58 |
| 59 | - | 15/3 | MOTORIZED OVERHEAD DOOR | 566 | C | | - | 20/1 | - | 60 |
| 61 | - | \| | \| | 566 | A | | - | 20/1 | - | 62 |
| 63 | - | \| | \| | 566 | B | | - | 20/1 | - | 64 |
| 65 | - | 15/3 | MOTORIZED OVERHEAD DOOR | 566 | C | | - | 20/1 | - | 66 |
| 67 | - | \| | \| | 566 | A | | - | 20/1 | - | 68 |
| 69 | - | \| | \| | 566 | B | | - | 20/1 | - | 70 |
| 71 | - | 15/3 | MOTORIZED OVERHEAD DOOR | 566 | C | | - | 20/1 | - | 72 |
| 73 | - | \| | \| | 566 | A | | - | 20/1 | - | 74 |
| 75 | - | \| | \| | 566 | B | | - | 20/1 | - | 76 |
| 77 | - | 20/1 | SPARE | | C | | - | 20/1 | - | 78 |
| 79 | - | 20/1 | SPARE | | A | | - | 20/1 | - | 80 |
| 81 | - | 20/1 | SPARE | | B | | - | 20/1 | - | 82 |
| 83 | - | 20/1 | SPARE | | C | | - | 20/1 | - | 84 |

| NOTES: | PH. A | PH. B | PH. C | | |
|---|---|---|---|---|---|
| 1. PROVIDE INTEGRAL 160KA (PER PHASE) SPD. | 20,064 | 18,064 | 16,064 | TOTAL CONNECTED LOAD: | 54.2 KVA |
| 2. "GFCI" = GFI-TYPE BREAKER (5mA TRIP). | | | | | 150.5 AMPS |
| 3. FURNISH WITH SHUNT-TRIP MAIN BREAKER. | | | | TOTAL DEMAND LOAD: | 32.1 KVA |
| | | | | | 89.2 AMPS |
| | | | | TOTAL COMPUTED LOAD: | 32.1 KVA |
| | | | | | 89.2 AMPS |

## PANELBOARD SCHEDULE - LP-W

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| PANEL TYPE: | SQUARE 'D' TYPE NF | | | AIC RATING: | 35KAIC (MINIMUM) | | | | |
| VOLTAGE: | 277/480V-3P-4W | | | MOUNTING: | SURFACE | | | | |
| AMPS & TYPE: | 100/3 MAIN BKR | | | LOCATION: | SEE PLANS | | | | |
| FED FROM: | MP-W | | | FEEDER: | SEE PANELBOARD SCHEDULE - MP-W | | | | |
| CKT. NO. | NOTES | BKR | DESCRIPTION | WATTS | PHASE | WATTS | DESCRIPTION | BKR | NOTES | CKT NO. |
| 1 | - | 20/1 | LIGHTING - LOBBY/CLASSROOM | 2,300 | A | 700 | LIGHTING - EXTERIOR | 20/1 | LCP | 2 |
| 3 | - | 20/1 | LIGHTING - LAB | 2,700 | B | | - | 20/1 | - | 4 |
| 5 | - | 20/1 | LIGHTING - LAB | 2,700 | C | | - | 20/1 | - | 6 |
| 7 | - | 20/1 | SPARE | | A | | - | 20/1 | - | 8 |
| 9 | - | 20/1 | SPARE | | B | | - | 20/1 | - | 10 |
| 11 | - | 20/1 | SPARE | | C | | - | 20/1 | - | 12 |
| 13 | - | 20/1 | SPARE | | A | | - | 20/1 | - | 14 |
| 15 | - | 20/1 | SPARE | | B | | - | 20/1 | - | 16 |
| 17 | - | 20/1 | SPARE | | C | | - | 20/1 | - | 18 |
| 19 | - | 20/1 | - | | A | | - | 20/1 | - | 20 |
| 21 | - | 20/1 | - | | B | | - | 20/1 | - | 22 |
| 23 | - | 20/1 | - | | C | | - | 20/1 | - | 24 |
| 25 | - | 20/1 | - | | A | | - | 20/1 | - | 26 |
| 27 | - | 20/1 | - | | B | | - | 20/1 | - | 28 |
| 29 | - | 20/1 | - | | C | | - | 20/1 | - | 30 |
| 31 | - | 20/1 | - | | A | | - | 20/1 | - | 32 |
| 33 | - | 20/1 | - | | B | | - | 20/1 | - | 34 |
| 35 | - | 20/1 | - | | C | | - | 20/1 | - | 36 |
| 37 | - | 20/1 | - | | A | | - | 20/1 | - | 38 |
| 39 | - | 20/1 | - | | B | | - | 20/1 | - | 40 |
| 41 | - | 20/1 | - | | C | | - | 20/1 | - | 42 |

| NOTES: | PH. A | PH. B | PH. C | | |
|---|---|---|---|---|---|
| 1. PROVIDE INTEGRAL 160KA (PER PHASE) SPD. | 3,000 | 2,700 | 2,700 | TOTAL CONNECTED LOAD: | 8.4 KVA |
| 2. "LCP" = CONNECT THROUGH LTG CONTROL PANEL. | | | | | 10.5 AMPS |
| | | | | TOTAL DEMAND LOAD: | 8.4 KVA |
| | | | | | 10.5 AMPS |
| | | | | TOTAL COMPUTED LOAD: | 10.5 KVA |
| | | | | | 13.1 AMPS |

## PANELBOARD SCHEDULE - RP-W

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| PANEL TYPE: | SQUARE 'D' TYPE NQ | | | AIC RATING: | 10KAIC (MINIMUM) | | | | |
| VOLTAGE: | 120/208V-3P-4W | | | MOUNTING: | SURFACE | | | | |
| AMPS & TYPE: | 400/3 MAIN BKR | | | LOCATION: | SEE PLANS | | | | |
| FED FROM: | MP-W | | | FEEDER: | 2 SETS OF 4#3/0 & 1#2G - 2 1/2"C | | | | |
| CKT. NO. | NOTES | BKR | DESCRIPTION | WATTS | PHASE | WATTS | DESCRIPTION | BKR | NOTES | CKT NO. |
| 1 | GFCI | 20/1 | DRINKING FOUNTAINS | 1,000 | A | 1,200 | RECEPTACLES | 20/1 | - | 2 |
| 3 | - | 20/1 | RECEPTACLES | 1,200 | B | 1,200 | RECEPTACLES | 20/1 | - | 4 |
| 5 | - | 20/1 | RECEPTACLES | 800 | C | 1,200 | RECEPTACLES | 20/1 | - | 6 |
| 7 | - | 20/1 | RECEPTACLES | 800 | A | 1,000 | RECEPTACLES | 20/1 | - | 8 |
| 9 | - | 20/1 | TBB-W | 1,000 | B | 1,000 | TBB-W | 20/1 | - | 10 |
| 11 | - | 20/1 | TBB-W | 1,000 | C | 1,500 | TBB-W | 30/2 | - | 12 |
| 13 | - | 20/1 | TBB-W | 1,000 | A | 1,500 | \| | \| | - | 14 |
| 15 | LON | 20/1 | FACP | 500 | B | 100 | CARD READERS | 20/1 | - | 16 |
| 17 | LON | 20/1 | BDA | 250 | C | 700 | UNIT HEATERS | 20/1 | - | 18 |
| 19 | LON | 20/1 | BDA | 250 | A | 700 | UNIT HEATERS | 20/1 | - | 20 |
| 21 | - | 20/1 | WELDING CONTROL PANEL | 500 | B | 2,000 | CU-1 | 35/2 | - | 22 |
| 23 | - | 20/1 | AIR COMPRESSOR DRYER | 800 | C | 2,000 | \| | \| | - | 24 |
| 25 | - | 30/2 | EWH-1 | 2,250 | A | 1,000 | AHU-1 | 20/1 | - | 26 |
| 27 | - | \| | \| | 2,250 | B | 700 | CU-1 | 30/2 | - | 28 |
| 29 | - | 20/1 | SPARE | | C | 700 | \| | \| | - | 30 |
| 31 | - | 20/1 | SPARE | | A | | - | 20/1 | - | 32 |
| 33 | - | 20/1 | - | | B | | - | 20/1 | - | 34 |
| 35 | - | 20/1 | - | | C | | - | 20/1 | - | 36 |
| 37 | - | 125/3 | RP-WA | 14,256 | A | 10,699 | RP-WB | 225/3 | - | 38 |
| 39 | - | \| | 4#1 & 1#6G - 2"C | 14,256 | B | 10,699 | 4#4/0 & 1#4G - 2 1/2"C | \| | - | 40 |
| 41 | - | \| | \| | 14,256 | C | 10,699 | \| | \| | - | 42 |

| NOTES: | PH. A | PH. B | PH. C | | |
|---|---|---|---|---|---|
| 1. PROVIDE INTEGRAL 160KA (PER PHASE) SPD. | 35,655 | 35,405 | 33,905 | TOTAL CONNECTED LOAD: | 158.8 KVA |
| 2. "LON" = "LOCK-ON" HARDWARE | | | | | 441.2 AMPS |
| 3. "GFCI" = GFI-TYPE BREAKER (5mA TRIP). | | | | TOTAL DEMAND LOAD: | 100.0 KVA |
| | | | | | 277.7 AMPS |
| | | | | TOTAL COMPUTED LOAD: | 100.0 KVA |
| | | | | | 277.7 AMPS |

## TRANSFORMER SCHEDULE

| MARK | SIZE (KVA) | DESCRIPTION | PRIMARY VOLTAGE & PHASE | SECONDARY VOLTAGE & PHASE | PANEL FED | MOUNTING | GROUND SIZE | REMARKS |
|---|---|---|---|---|---|---|---|---|
| T-W | 112.5 | DRY-TYPE | 480V-3P-3W | 120/208V-3P-4W | RP-W | FLOOR | #2 | |

TRANSFORMER SCHEDULE NOTES:
1. EXACT TRANSFORMER LOCATIONS SHALL BE FIELD COORDINATED TO PROVIDE CODE-REQUIRED CLEARANCES AND WORKING SPACES AROUND TRANSFORMERS AND ADJACENT EQUIPMENT (SUCH AS PANELBOARDS).
2. ALL TRANSFORMERS SHALL BE MOUNTED ON VIBRATION ISOLATORS PER SPECIFICATION REQUIREMENTS.

## PANELBOARD SCHEDULE - MP-W

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| PANEL TYPE: | SQUARE 'D' H LINE SERIES | | | | | AIC RATING: | 65KAIC (MINIMUM) | | |
| VOLTAGE: | 277/480V-3P-4W | | | | | MOUNTING: | SURFACE - NEMA 3R ENCLOSURE | | |
| AMPS & TYPE: | 1200/3 MAIN BKR | | | | | LOCATION: | SEE PLANS | | |
| FED FROM: | UTILITY | | | | | FEEDER: | 4 SETS OF 4-350MCM - 3"C | | |
| CIR. NO. | DESCRIPTION | VOLTS | P | HP | KW OR KVA | AMPS | BKR SIZE | LOCAL SAFETY SW. RATING | WIRE AND COND. SIZE | REMARKS |
| 1 | MP-WA | 277/480 | 3 | | 367.2 | | 600/3 | - | 2 SETS OF 4-350MCM & 1#1G - 3"C | SHUNT-TRIP BKR |
| 2 | MP-WB | 277/480 | 3 | | 306.8 | | 600/3 | - | 2 SETS OF 4-350MCM & 1#1G - 3"C | SHUNT-TRIP BKR |
| 3 | LP-W | 277/480 | 3 | | 10.5 | | 100/3 | - | 4#3 & 1#8G - 1 1/2"C | |
| 4 | RP-W (112.5 KVA X-FORMER) | 480 | 3 | | 100.0 | | 175/3 | 200/3 | 3#2/0 & 1#6G - 2"C | |
| 5 | VF-1 | 480 | 3 | 1 | | | 15/3 | 30/3 | 3#12 & 1#12G - 3/4"C | |
| 6 | VF-2 | 480 | 3 | 1 | | | 15/3 | 30/3 | 3#12 & 1#12G - 3/4"C | |
| 7 | VF-3 | 480 | 3 | 1 | | | 15/3 | 30/3 | 3#12 & 1#12G - 3/4"C | |
| 8 | VF-4 | 480 | 3 | 1 | | | 15/3 | 30/3 | 3#12 & 1#12G - 3/4"C | |
| 9 | WELDING EXHAUST #1 | 480 | 3 | | | 45.2 | 125/3 | 200/3 - F125 | 3#1 & 1#6G - 1 1/2"C | |
| 10 | WELDING EXHAUST #2 | 480 | 3 | | | 35.2 | 90/3 | 100/3 - F90 | 3#3 & 1#8G - 1 1/4"C | |
| 11 | CA-2 | 480 | 3 | 20 | | | 60/3 | 60/3 | 3#8 & 1#8G - 1"C | |
| 12 | SPACE | | 3 | | | | -/3 | - | | |
| 13 | SPACE | | 3 | | | | -/3 | - | | |
| 14 | SPACE | | 3 | | | | -/3 | - | | |
| | | TOTAL CONNECTED LOAD: | | | | 1,284.0 KVA | | | | |
| | | | | | | 1,604.9 AMPS | | | | |
| | | TOTAL DEMAND LOAD: | | | | 875.1 KVA | | | | |
| | | | | | | 1,093.9 AMPS | | | | |
| | | TOTAL COMPUTED LOAD: | | | | 877.2 KVA | | | | |
| | | | | | | 1,096.5 AMPS | | | | |

NOTES:
1. PROVIDE INTEGRAL 240KA (PER PHASE) SPD.
2. ENCLOSURE SHALL BE NEMA 3R.
3. MAIN BREAKER SHALL BE GROUND-FAULT TYPE
4. PROVIDE ARC-FLASH ENERGY REDUCTION MAINTENANCE SWITCH (TO ADJUST BREAKER TRIP SETTINGS TO LOWER LEVELS WHEN SWITCH IS IN "MAINTENANCE MODE") PER NEC ARTICLE 240.87 REQUIREMENTS.

## PANELBOARD SCHEDULE - MP-WA

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| PANEL TYPE: | SQUARE 'D' TYPE NF | | | | | AIC RATING: | 50KAIC (MINIMUM) | | |
| VOLTAGE: | 277/480V-3P-4W | | | | | MOUNTING: | SURFACE | | |
| AMPS & TYPE: | 600 AMP - MLO | | | | | LOCATION: | SEE PLANS | | |
| FED FROM: | MP-W | | | | | FEEDER: | SEE PANELBOARD SCHEDULE - MP-W | | |
| CIR. NO. | DESCRIPTION | VOLTS | P | HP | KW OR KVA | AMPS | BKR SIZE | LOCAL SAFETY SW. RATING | WIRE AND COND. SIZE | REMARKS |
| 1 | WELDER (BOOTH) | 480 | 3 | | | 30.0 | 60/3 | - | 3#6 & 1#10G - 1"C | |
| 2 | WELDER (BOOTH) | 480 | 3 | | | 30.0 | 60/3 | - | 3#6 & 1#10G - 1"C | |
| 3 | WELDER (BOOTH) | 480 | 3 | | | 30.0 | 60/3 | - | 3#6 & 1#10G - 1"C | |
| 4 | WELDER (BOOTH) | 480 | 3 | | | 30.0 | 60/3 | - | 3#6 & 1#10G - 1"C | |
| 5 | WELDER (BOOTH) | 480 | 3 | | | 30.0 | 60/3 | - | 3#6 & 1#10G - 1"C | |
| 6 | WELDER (BOOTH) | 480 | 3 | | | 30.0 | 60/3 | - | 3#6 & 1#10G - 1"C | |
| 7 | WELDER (BOOTH) | 480 | 3 | | | 30.0 | 60/3 | - | 3#6 & 1#10G - 1"C | |
| 8 | WELDER (BOOTH) | 480 | 3 | | | 30.0 | 60/3 | - | 3#6 & 1#10G - 1"C | |
| 9 | WELDER (BOOTH) | 480 | 3 | | | 30.0 | 60/3 | - | 3#6 & 1#10G - 1"C | |
| 10 | WELDER (BOOTH) | 480 | 3 | | | 30.0 | 60/3 | - | 3#6 & 1#10G - 1"C | |
| 11 | WELDER (BOOTH) | 480 | 3 | | | 30.0 | 60/3 | - | 3#6 & 1#10G - 1"C | |
| 12 | WELDER (BOOTH) | 480 | 3 | | | 30.0 | 60/3 | - | 3#6 & 1#10G - 1"C | |
| 13 | WELDER (BOOTH) | 480 | 3 | | | 30.0 | 60/3 | - | 3#6 & 1#10G - 1"C | |
| 14 | WELDER (BOOTH) | 480 | 3 | | | 30.0 | 60/3 | - | 3#6 & 1#10G - 1"C | |
| 15 | WELDER (BOOTH) | 480 | 3 | | | 30.0 | 60/3 | - | 3#6 & 1#10G - 1"C | |
| 16 | WELDER (BOOTH) | 480 | 3 | | | 30.0 | 60/3 | - | 3#6 & 1#10G - 1"C | |
| 17 | WELDER (BOOTH) | 480 | 3 | | | 30.0 | 60/3 | - | 3#6 & 1#10G - 1"C | |
| 18 | WELDER (BOOTH) | 480 | 3 | | | 30.0 | 60/3 | - | 3#6 & 1#10G - 1"C | |
| 19 | WELDER (BOOTH) | 480 | 3 | | | 30.0 | 60/3 | - | 3#6 & 1#10G - 1"C | |
| 20 | WELDER (BOOTH) | 480 | 3 | | | 30.0 | 60/3 | - | 3#6 & 1#10G - 1"C | |
| 21 | WELDER (BOOTH) | 480 | 3 | | | 30.0 | 60/3 | - | 3#6 & 1#10G - 1"C | |
| 22 | WELDER (BOOTH) | 480 | 3 | | | 30.0 | 60/3 | - | 3#6 & 1#10G - 1"C | |
| 23 | WELDER (BOOTH) | 480 | 3 | | | 30.0 | 60/3 | - | 3#6 & 1#10G - 1"C | |
| 24 | SPACE | | 3 | | | | -/3 | - | | |
| 25 | SPACE | | 3 | | | | -/3 | - | | |
| 26 | SPACE | | 3 | | | | -/3 | - | | |
| 27 | SPACE | | 3 | | | | -/3 | - | | |
| 28 | SPACE | | 3 | | | | -/3 | - | | |
| | | TOTAL CONNECTED LOAD: | | | | 552.0 KVA | | | | |
| | | | | | | 690.0 AMPS | | | | |
| | | TOTAL DEMAND LOAD: | | | | 367.2 KVA | | | | |
| | | | | | | 459.0 AMPS | | | | |
| | | TOTAL COMPUTED LOAD: | | | | 367.2 KVA | | | | |
| | | | | | | 459.0 AMPS | | | | |

NOTES:
1. PROVIDE INTEGRAL 160KA (PER PHASE) SPD.
2. FURNISH IN A SINGLE 20 INCH WIDE SECTION.

## PANELBOARD SCHEDULE - MP-WB

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| PANEL TYPE: | SQUARE 'D' TYPE NF | | | | | AIC RATING: | 50KAIC (MINIMUM) | | |
| VOLTAGE: | 277/480V-3P-4W | | | | | MOUNTING: | SURFACE | | |
| AMPS & TYPE: | 600 AMP - MLO | | | | | LOCATION: | SEE PLANS | | |
| FED FROM: | MP-W | | | | | FEEDER: | SEE PANELBOARD SCHEDULE - MP-W | | |
| CIR. NO. | DESCRIPTION | VOLTS | P | HP | KW OR KVA | AMPS | BKR SIZE | LOCAL SAFETY SW. RATING | WIRE AND COND. SIZE | REMARKS |
| 1 | WELDER (BOOTH) | 480 | 3 | | | 30.0 | 60/3 | - | 3#6 & 1#10G - 1"C | |
| 2 | WELDER (BOOTH) | 480 | 3 | | | 30.0 | 60/3 | - | 3#6 & 1#10G - 1"C | |
| 3 | WELDER (BOOTH) | 480 | 3 | | | 30.0 | 60/3 | - | 3#6 & 1#10G - 1"C | |
| 4 | WELDER (BOOTH) | 480 | 3 | | | 30.0 | 60/3 | - | 3#6 & 1#10G - 1"C | |
| 5 | WELDER (BOOTH) | 480 | 3 | | | 30.0 | 60/3 | - | 3#6 & 1#10G - 1"C | |
| 6 | WELDER (BOOTH) | 480 | 3 | | | 30.0 | 60/3 | - | 3#6 & 1#10G - 1"C | |
| 7 | WELDER (BOOTH) | 480 | 3 | | | 30.0 | 60/3 | - | 3#6 & 1#10G - 1"C | |
| 8 | WELDER (BOOTH) | 480 | 3 | | | 30.0 | 60/3 | - | 3#6 & 1#10G - 1"C | |
| 9 | WELDER (BOOTH) | 480 | 3 | | | 30.0 | 60/3 | - | 3#6 & 1#10G - 1"C | |
| 10 | WELDER (BOOTH) | 480 | 3 | | | 30.0 | 60/3 | - | 3#6 & 1#10G - 1"C | |
| 11 | WELDER (BOOTH) | 480 | 3 | | | 30.0 | 60/3 | - | 3#6 & 1#10G - 1"C | |
| 12 | WELDER (BOOTH) | 480 | 3 | | | 30.0 | 60/3 | - | 3#6 & 1#10G - 1"C | |
| 13 | WELDER (BOOTH) | 480 | 3 | | | 30.0 | 60/3 | - | 3#6 & 1#10G - 1"C | |
| 14 | WELDER (BOOTH) | 480 | 3 | | | 30.0 | 60/3 | - | 3#6 & 1#10G - 1"C | |
| 15 | PLASMA CUTTER | 480 | 3 | | | 40.0 | 60/3 | - | 3#6 & 1#10G - 1"C | |
| 16 | PLASMA CUTTER | 480 | 3 | | | 40.0 | 60/3 | - | 3#6 & 1#10G - 1"C | |
| 17 | WELDER (BOOTH) | 480 | 3 | | | 30.0 | 60/3 | - | 3#6 & 1#10G - 1"C | |
| 18 | WELDER (BOOTH) | 480 | 3 | | | 30.0 | 60/3 | - | 3#6 & 1#10G - 1"C | |
| 19 | WELDER (BOOTH) | 480 | 3 | | | 30.0 | 60/3 | - | 3#6 & 1#10G - 1"C | |
| 20 | SPACE | | 3 | | | | -/3 | - | | |
| | | TOTAL CONNECTED LOAD: | | | | 472.0 KVA | | | | |
| | | | | | | 590.0 AMPS | | | | |
| | | TOTAL DEMAND LOAD: | | | | 306.8 KVA | | | | |
| | | | | | | 383.5 AMPS | | | | |
| | | TOTAL COMPUTED LOAD: | | | | 306.8 KVA | | | | |
| | | | | | | 383.5 AMPS | | | | |

NOTES:
1. PROVIDE INTEGRAL 160KA (PER PHASE) SPD.
2. FURNISH IN A SINGLE 20 INCH WIDE SECTION.


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ISSUE | DATE
IFB SET | 05/27/2026

DRAWN BY: JRA
CHECKED BY: RCR

**REID STATE CC WELDING & INDUSTRIAL RENO.**
100 AL-83, Evergreen, AL 36401

ACCS
GMC ABHM250047

ALABAMA LICENSED PROFESSIONAL ENGINEER ROBERT C. RENFRO No. 24463
5.27.26

**ELECTRICAL SCHEDULES**

E6.02


JACKSON, RENFRO & ASSOCIATES, INC.
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