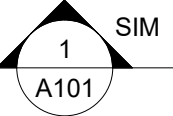
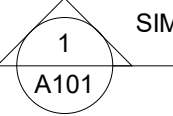
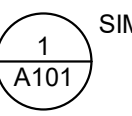
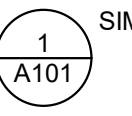
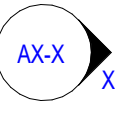
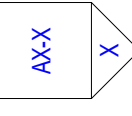
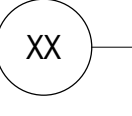


SYMBOLS

BUILDING SECTION		DIRECTION OF VIEW REFERENCE SECTION NUMBER REFERENCE SHEET NUMBER
WALL SECTION		DIRECTION OF VIEW REFERENCE SECTION NUMBER REFERENCE SHEET NUMBER
DETAIL		REFERENCE DETAIL NUMBER REFERENCE SHEET NUMBER
CALLOUT DETAIL		REFERENCE DETAIL NUMBER REFERENCE SHEET NUMBER
INTERIOR ELEVATION		REFERENCE DETAIL NUMBER REFERENCE SHEET NUMBER
EXTERIOR ELEVATION		REFERENCE DETAIL NUMBER REFERENCE SHEET NUMBER
STRUCTURAL GRID LINE		GRID REFERENCE
ROOM IDENTIFICATION		ROOM NAME REFERENCE ROOM REFERENCE NUMBER
DOOR IDENTIFICATION		DOOR REFERENCE NUMBER
WALL TYPE		WALL TYPE REFERENCE NUMBER
NORTH ARROW		NORTH ARROW
KEYNOTE		KEYNOTE REFERENCE NUMBER
WINDOW IDENTIFICATION		WINDOW REFERENCE NUMBER
REVISION KEYNOTE		REVISION REFERENCE NUMBER
HEIGHT DATUM		NAME ELEVATION HEIGHT DATUM REFERENCE NUMBER

UNION BLOCK BUILDING

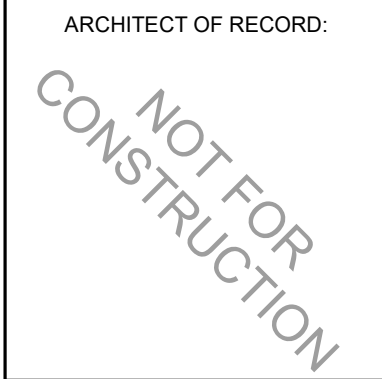
124 W WALNUT STR
ROGERS, ARKANSAS 72756

PROJECT DIRECTORY

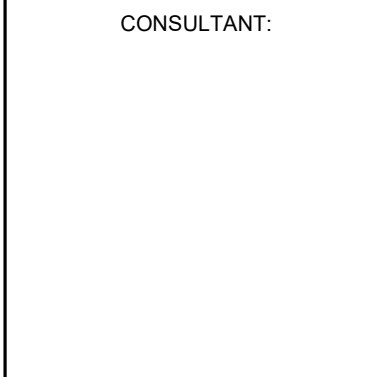
OWNER:	RIVERCLIFF LAND AND CATTLE INC CONTACT: BRAD VANDRIS ROGERS, ARKANSAS PH: (479) 430-6465
ARCHITECT:	CORE ARCHITECTS, INC. PRINCIPAL: DUSTY GRAHAM PROJECT MANAGER: GIL NEWNUM 5001 W FOUNDERS WY #310 ROGERS, AR, 72758 PH: (479) 631-2673 FX: (479) 631-2674
STRUCTURE:	JLA ENGINEERS INC. CONTACT: LUCAS GRIGGS 213 W MONROE AVE LOWELL, AR 72745 PH: (479) 770-6650
MEP:	FORWARD ENGINEERS CONTACT: KEVIN JENSEN 801 N. 24TH STREET ROGERS, AR 72756 PH: (479) 282-1028 x101

SHEET INDEX

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SP.02	SUMMARY SPECIFICATIONS
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A2.1	ARCHITECTURAL FLOOR PLAN(S)
A2.2	FINISH FLOOR PLAN & SCHEDULE
A2.3	ROOF PLAN & DETAILS
A3.1	EXTERIOR BUILDING ELEVATION(S)
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A4.2	BUILDING SECTION(S)
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S4	FOUNDATION DETAILS
S5	FRAMING DETAILS
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E-101	ELECTRICAL PLANS
E-102	ELECTRICAL PLANS, RISER & DETAILS
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FX--001	FIRE SUPPRESSION SPECIFICATIONS
FX--002	FIRE SUPPRESSION SPECIFICATIONS



REVISION		
NO.	ISSUE	DATE



UNION BLOCK BUILDING

124 W WALNUT STR
ROGERS, ARKANSAS 72756

DRAWN BY:	GON
CHECKED BY:	GON

PROJECT #:	25-042
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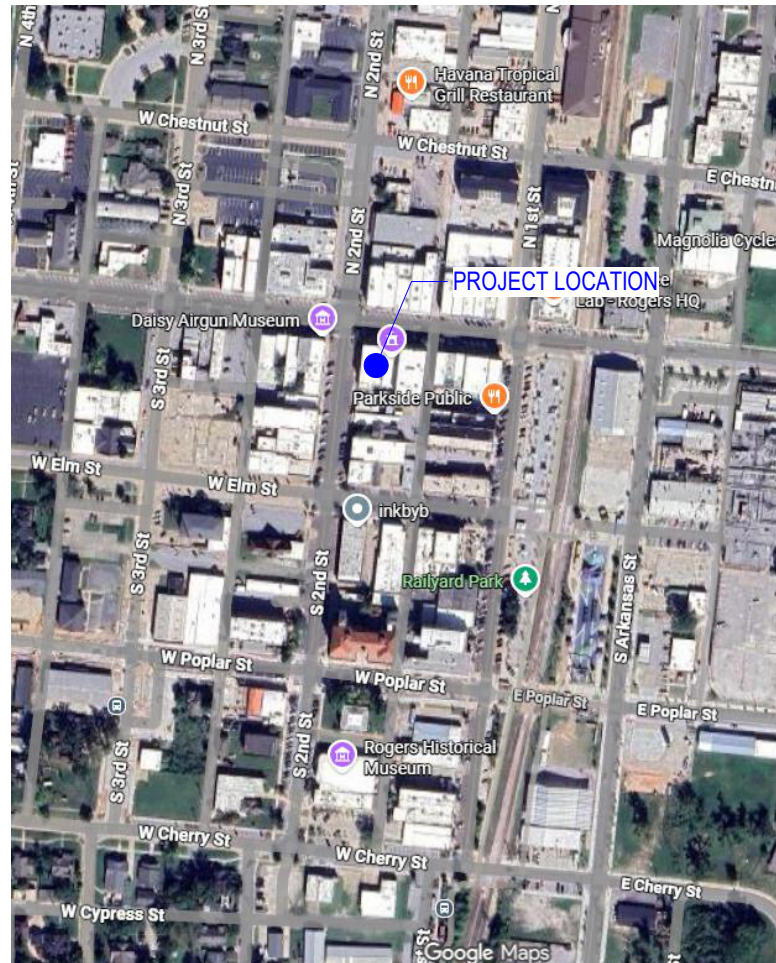
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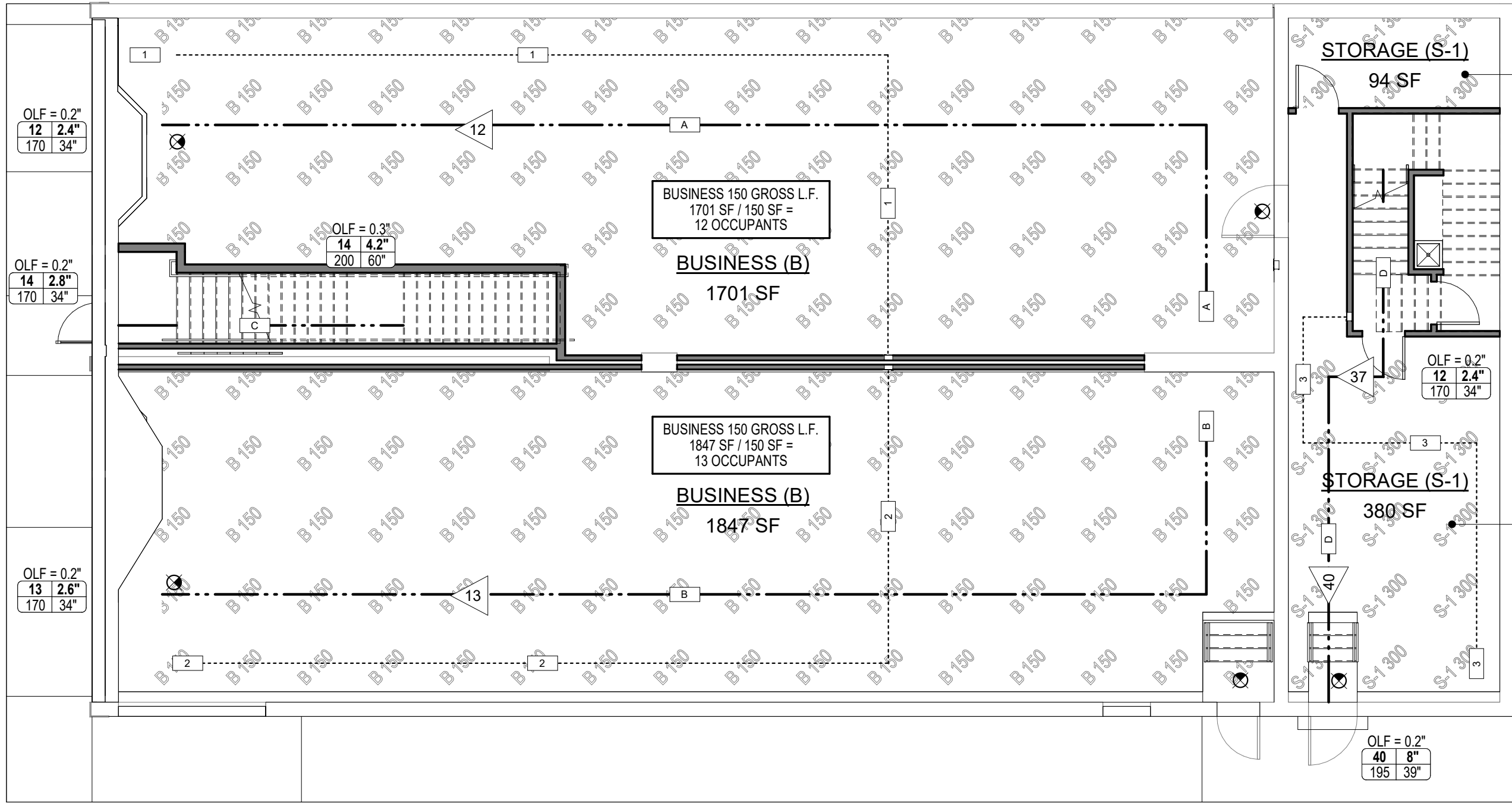
DRAWING:	A0.1
COVER SHEET	

GENERAL NOTES

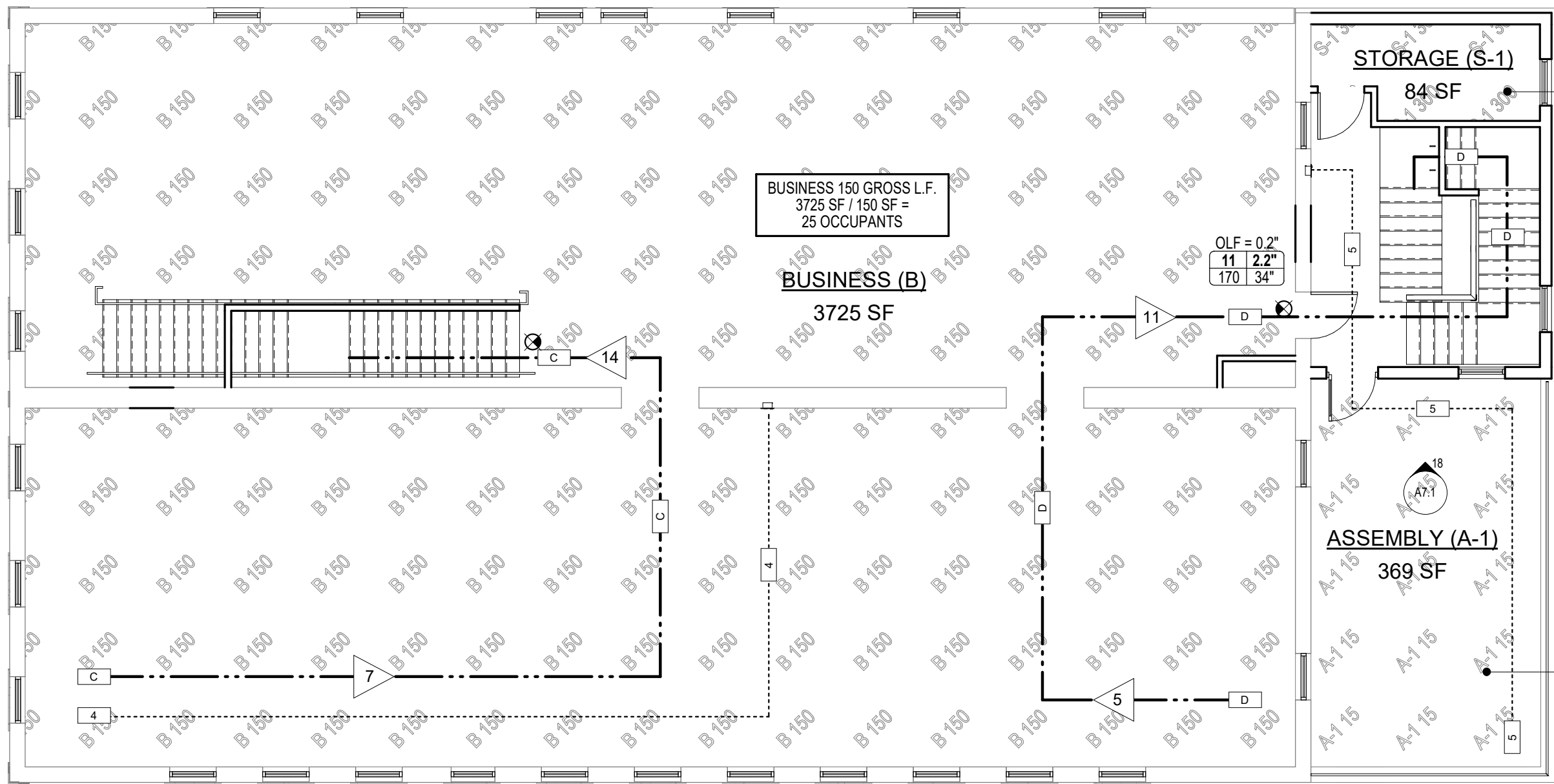
- ALL CONSTRUCTION SHALL BE DONE IN ACCORDANCE WITH THE CODES LISTED UNDER THE PROJECT INFORMATION HEADING ON THIS SHEET. IT SHALL BE THE CONTRACTOR'S AND HIS EMPLOYEE'S RESPONSIBILITY TO BE FAMILIAR WITH ALL CODES AND ORDINANCES, CITY OR STATE, AS REQUIRED FOR THE CONSTRUCTION OF THIS PROJECT. WHERE ANY CONFLICTS OCCUR BETWEEN FEDERAL, STATE AND LOCAL LAWS, CODES, ORDINANCES, AND REGULATIONS, THE MOST STRINGENT SHALL GOVERN.
- VERIFICATION OF EXISTING CONDITIONS SHALL BE MADE FROM SOURCES AVAILABLE TO THE CONTRACTOR, SUCH AS BUT NOT LIMITED TO, UTILITY COMPANIES, CONTRACT DOCUMENTS, THE OWNER, SITE INVESTIGATION REPORTS, ETC. IN NO WAY SHALL ANY DOCUMENTATION RECEIVED BY THE CONTRACTOR RELIEVE HIM OF THE RESPONSIBILITY OF PERFORMING HIS OWN FIELD INVESTIGATION.
- THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS INCLUDING BUT NOT LIMITED TO STRUCTURE, MECHANICAL, PLUMBING, ELECTRICAL, EQUIPMENT, AND ALL OTHER EXISTING SYSTEMS; AND MAKE NECESSARY PROVISIONS TO MAINTAIN THE INTEGRITY OF SAID SYSTEMS PRIOR TO THE COMMENCEMENT OF DEMOLITION, IF ANY. SEE STRUCTURAL, MECHANICAL, PLUMBING, ELECTRICAL AND EQUIPMENT DRAWINGS FOR ANY SYSTEMS OR PORTIONS THEREOF TO BE REMOVED, RELOCATED, REVISED OR ABANDONED. ALL POSSIBLE CARE SHALL BE EXERCISED BY THE CONTRACTOR TO INSURE THAT ANY SAID UTILITY WILL NOT BE THE CAUSE OF ENDANGERMENT TO THE LIFE OR HEALTH OF ANY PERSON.
- THE CONTRACTOR SHALL REFER TO THE SPECIFICATIONS, IF PROVIDED, FOR A COMPLETE LIST OF GENERAL CONDITIONS, SPECIAL CONDITIONS, MATERIALS, INSTALLATION METHODOLOGY AND NOTES.
- CONTRACTOR SHALL NOTIFY THE OWNERS REPRESENTATIVE OF TIMES WHEN THE CONSTRUCTION NOISE WILL BE EXCESSIVE. CONTRACTOR SHALL RESCHEDULE SUCH WORK IF SO REQUIRED BY THE OWNER.
- THE CONTRACTOR SHALL LOCATE BACKING PLATES BEHIND ALL WALL HANDRAILS, GRAB BARS, GUARDRAILS ETC., AS REQUIRED.
- ALL PENETRATIONS INTO SOUND RATED ASSEMBLIES SHALL BE SEALED WITH APPROVED RESILIENT ACOUSTIC SEALANT. ALL RECESSED ITEMS SHALL BE SEALED TO MAINTAIN INTEGRITY OF THE ACOUSTIC ASSEMBLY.
- ALL DIMENSIONS SHOWN ARE FROM GRID LINE, CENTER OF COLUMN, FACE OF STUD OR EDGE OF SLAB.
- THE ARCHITECT WILL DEFINE THE INTENT OF ANY ABBREVIATION IN QUESTION.
- ALL DRAWINGS, THOUGH NOTED TO SCALE, ARE FOR ILLUSTRATION ONLY. THE CONTRACTOR AND HIS SUBCONTRACTORS SHALL NOT SCALE THE DRAWINGS. ITEMS WRONGLY LOCATED BY DRAWING SCALING SHALL BE CORRECTED AT THE CONTRACTOR'S EXPENSE.]
- ALL DRAWINGS, THOUGH NOTED TO SCALE, ARE FOR ILLUSTRATION ONLY. THE CONTRACTOR AND HIS SUBCONTRACTORS SHALL NOT SCALE THE DRAWINGS. ITEMS WRONGLY LOCATED BY DRAWING SCALING SHALL BE CORRECTED AT THE CONTRACTOR'S EXPENSE.
- DRAWINGS HAVE BEEN DETAILED IN COMPLIANCE WITH THE AGENCIES LISTED IN THE APPLICABLE CODE SUBHEADING ON THIS PAGE. IF AN ALTERNATE OR SUBSTITUTED MATERIAL IS ACCEPTED AS AN EQUAL BY THE GENERAL CONTRACTOR, HE WILL ASSUME THE RESPONSIBILITY FOR WHATEVER CONSTRUCTION MODIFICATION AND/OR ADDITIONAL COSTS ARE REQUIRED BY REASON OF THIS ACCEPTANCE.
- IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO CHECK WITH THE ARCHITECTURAL DRAWINGS BEFORE THE INSTALLATION OF ANY MECHANICAL, PLUMBING, ELECTRICAL OR SYSTEMS CONSTRUCTION. ANY DISCREPANCIES BETWEEN OR WITHIN THE ARCHITECTURAL AND CONSULTING ENGINEER'S DRAWINGS SHALL BE BROUGHT TO THE ARCHITECT'S ATTENTION FOR CLARIFICATION BEFORE COMMENCING WITH THE WORK. ANY CONSTRUCTION INSTALLED IN CONFLICT WITH THE CONTRACT DOCUMENTS SHALL BE CORRECTED BY THE CONTRACTOR AT HIS OWN EXPENSE, AND AT NO EXPENSE TO THE OWNER OR ARCHITECT.
- DURING THE ENTIRE CONSTRUCTION PERIOD, IT SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO MAINTAIN CONDITIONS AT THE PROJECT SITE TO MEET THE REQUIREMENTS OF THE FEDERAL OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) AND ANY APPLICABLE STATE HEALTH AND SAFETY REGULATIONS. THIS PROVISION SHALL COVER THE CONTRACTOR'S EMPLOYEES AND ALL OTHER PERSONS WORKING UPON OR VISITING THE SITE. THE CONTRACTOR SHALL BECOME FULLY INFORMED OF ALL APPLICABLE STANDARDS AND REGULATIONS AND INFORM ALL PERSONS AND REPRESENTATIVES RESPONSIBLE FOR WORK UNDER THIS CONTRACT.
- CONTRACTOR SHALL PROVIDE FOR THE PROPER SEQUENCE OF CONSTRUCTION, LOCATION AND SIZE OF OPENINGS. COORDINATE ALL CONSTRUCTION AS INDICATED BY THE CONTRACT DOCUMENTS, INCLUDING SHOP DRAWINGS REVIEWED BY ARCHITECT.
- CONTRACTOR SHALL COORDINATE THE LOCATION AND TYPE OF ALL ACCESS PANELS REQUIRED FOR ACCESSING MECHANICAL, PLUMBING, ELECTRICAL AND OTHER BUILDING SYSTEMS WITH ARCHITECT.
- UNLESS SPECIFICALLY DETAILED ON STRUCTURAL DRAWINGS, DO NOT CUT OR OTHERWISE MODIFY STRUCTURAL ELEMENTS WITHOUT DIRECTION FROM THE ARCHITECT AND ENGINEER. PROVIDE REINFORCEMENT, SUPPORT, TEMPORARY SHORING SATISFACTORY TO THE ARCHITECT AND STRUCTURAL ENGINEER PRIOR TO CUTTING INTO STRUCTURAL PORTIONS OF ANY BUILDING ELEMENT. PROVIDE ALL CUTTING OF STRUCTURAL ELEMENTS, AND ALL ASSOCIATED REPAIR OR REFINISHING OF ADJACENT SURFACES AT NO ADDITIONAL EXPENSE TO THE OWNER.
- ALL PIPES, DUCTS, AND CONDUITS SHALL BE SUPPORTED AND BRACED PER ALL APPLICABLE CITY AND CODE REQUIREMENTS, WHETHER OR NOT THE TYPE OF RESTRAINT OR DETAIL OF THE RESTRAINT IS SHOWN ON THESE DRAWINGS. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND HIS SUBCONTRACTORS TO BE FAMILIAR WITH ALL CODE REQUIREMENTS.
- THE BUILDINGS FIRE SPRINKLER SYSTEM SHALL MEET ALL REQUIREMENTS SET FORTH BY THE APPLICABLE CODES LISTED ON THIS SHEET.
- ALL REQUIRED PERMITS MUST BE OBTAINED FROM DEPARTMENT OF INSPECTIONS BEFORE THE BUILDING IS OCCUPIED.

PROJECT LOCATION





20 1ST FLOOR
1/8" = 1'-0"



18 2ND FLOOR
1/8" = 1'-0"

OCCUPANCY TYPE LEGEND

- ACCESSORY STORAGE AREAS, MECHANICAL EQUIPMENT ROOMS
- ASSEMBLY UNCONCENTRATED (TABLE/CHAIRS)
- BUSINESS AREAS

PROJECT NAME: UNION BLOCK
PROJECT LOCATION: ROGERS, AR
ZONING: TS.2

(A) USE AND OCCUPANCY CLASSIFICATION (GROSS SQ. FOOTAGE) (PER CHAPTER 3):
BUILDING OCCUPANCY TYPE: (B) NON SEPARATED

(B) PROPOSED OCCUPANCY LOADS (Chapter 10 / Table 1004.1.2)
TOTAL OCCUPANTS PROPOSED: 79 OCC

(C) TYPE OF CONSTRUCTION (Chapter 6): TYPE - IIIA

(D) GENERAL BUILDING HEIGHT AND AREA LIMITATIONS
ALLOWABLE HEIGHT (FEET) 65 FT
PROPOSED HEIGHT (FEET) 40 FT
ALLOWABLE STORIES 5
PROPOSED STORIES 2
ALLOWABLE AREA PER FLOOR 28,500 SF
PROPOSED AREA PER FLOOR 4567 SF

(E) FLOOR AREAS, AS FOLLOWS:
a. AREA, GROSS LEASABLE (Chapter 5 / Table 503): N/A
b. AREA, NET FLOOR (Chapter 5 / Table 503): N/A

(F) SEPARATION DISTANCES (Chapter 5 / Table 508.4) N/A

APPLICABLE CODES:
ALL WORK AND MATERIALS SHALL BE IN FULL ACCORDANCE WITH THE REQUIREMENTS OF THESE CODES AND ALL APPLICABLE LOCAL ORDINANCES.

STATE BUILDING CODE
2021 INTERNATIONAL BUILDING CODE (IBC)

LIFE SAFETY CODE (LSC)
as referenced by IBC
2021 ARKANSAS FIRE PREVENTION CODE VOL. I (2021 International Fire Code (IFC) w/ Arkansas amendments)
2021 ARKANSAS FIRE PREVENTION CODE VOL. II - Commercial (2021 International Fire Code (IBC) w/ Arkansas amendments)

PLUMBING CODE:
2018 ARKANSAS PLUMBING CODE (APC)

GAS CODE:
2018 ARKANSAS FUEL GAS CODE (AFGC)

MECHANICAL CODE:
2021 ARKANSAS MECHANICAL CODE (AMC)

ELECTRICAL CODE:
2020 NATIONAL ELECTRIC CODE (NEC)

FIRE CODE:
2021 INTERNATIONAL FIRE CODE (IFC)

OTHER ORDINANCES:
2014 ARKANSAS ENERGY CODE (AEC)
2009 ANSI A117.1
2012 EXISTING BUILDING CODE (NFA (APPLICABLE))
LOCAL ADOPTED ORDINANCES

FIRE PROTECTION:
REQUIRED: NO
PROPOSED: YES
HISTORIC: YES

LIFE SAFETY LEGEND

ROOM TAG
OCCUPANT LOAD (PER SPACE)

OCCUPANT LOAD FACTOR
OCCUPANT LOAD SERVED
OCCUPANT CAPACITY

OLP = 0.2"
200 30"
226 34"

CLEAR WIDTH REQUIRED
CLEAR WIDTH PROVIDED

EGRESS CALCULATIONS TAG (ABOVE)
EGRESS / FIRE EXTINGUISHER PATH LABEL
SUMMATION OF LOADS
LINE OF TRAVEL
FIRE EXTINGUISHER TRAVEL PATH
1 HR FIRE RATING
2 HR FIRE RATING
EXIT LIGHT (SEE ELECTRICAL & VERIFY WITH FIRE MARSHAL)
F.E.C
FIRE EXTINGUISHER CABINET

GENERAL LIFE SAFETY NOTES

- COORDINATE FINAL LOCATIONS AND NUMBER OF EXIT SIGNS WITH LOCAL FIRE MARSHAL PRIOR TO INSTALL.
- COORDINATE FINAL LOCATIONS AND NUMBER OF REQUIRED FIRE EXTINGUISHERS WITH THE LOCAL FIRE MARSHAL PRIOR TO INSTALL.
- PROVIDE J.L. INDUSTRIES COSMIC 10E FIRE EXTINGUISHER OR EQUIVALENT MINIMUM.
- COORDINATE FINAL LOCATIONS OF FIRE SUPPRESSION CONTROLS AND ALL OTHER FIRE ALARM AND FIRE SUPPRESSION ITEMS WITH THE LOCAL FIRE MARSHAL PRIOR TO INSTALL.
- SEE PARTITION SCHEDULE FOR FIRE RATED PARTITION DESCRIPTIONS.
- SEE DOOR SCHEDULE FOR HARDWARE SETS.

OCCUPANT LOAD CALCULATION		
I.B.C. TABLE 1004.1.2 - FUNCTION OF SPACE & LOAD FACTOR	AREA SF	CALCULATED OCCUPANT LOAD
ASSEMBLY 15 NET L.F.	369	25
BUSINESS 150 GROSS L.F.	7273	50
STORAGE 300 GROSS L.F.	558	4
	8200	79

SECTION 1005.3.2 OTHER EGRESS COMPONENTS

THE CAPACITY, IN INCHES (MM), OF MEANS OF EGRESS COMPONENTS OTHER THAN STAIRWAYS SHALL BE CALCULATED BY MULTIPLYING THE OCCUPANT LOAD SERVED BY SUCH COMPONENT BY A MEANS OF EGRESS CAPACITY FACTOR OF 0.2 INCH (5.1 MM) PER OCCUPANT.

EXCEPTION: FOR OTHER THAN GROUP H AND I-2 OCCUPANCIES, THE CAPACITY, IN INCHES (MM), OF MEANS OF EGRESS COMPONENTS OTHER THAN STAIRWAYS SHALL BE CALCULATED BY MULTIPLYING THE OCCUPANT LOAD SERVED BY SUCH COMPONENT BY A MEANS OF EGRESS CAPACITY FACTOR OF 0.15 INCH (3.8 MM) PER OCCUPANT IN BUILDINGS EQUIPPED THROUGHOUT WITH AN AUTOMATIC SPRINKLER SYSTEM INSTALLED IN ACCORDANCE WITH SECTION 903.3.1.1 OR 903.3.1.2 AND AN EMERGENCY VOICE/ALARM COMMUNICATION SYSTEM IN ACCORDANCE WITH SECTION 907.5.2.2.

EGRESS DISTANCES	
PATH ID	EXIT PATH DISTANCE
A	86' - 1"
B	86' - 0"
C	97' - 7"
D	127' - 4"

FIRE EXTINGUISHER MAX TRAVEL DISTANCE	
PATH ID	TRAVEL DISTANCE
1	70' - 10"
2	69' - 1"
3	40' - 0"
4	63' - 4"
5	50' - 0"

COORDINATE FINAL LOCATION AND NUMBER OF REQUIRED FIRE EXTINGUISHERS WITH LOCAL FIRE MARSHAL. PROVIDE J.L. INDUSTRIES COSMIC 10E OR EQUIVALENT MINIMUM.

EXIT DOOR ANALYSIS SUMMATION			
COUNT	CLEAR WIDTH (INCHES)	OCCUPANT LOAD	EGRESS CAPACITY
4	141	79	705

EXIT STAIR ANALYSIS SUMMATION			
COUNT	CLEAR WIDTH (INCHES)	OCCUPANT LOAD	EGRESS CAPACITY
2	108	51	360



ARCHITECT OF RECORD:
NOT FOR CONSTRUCTION

REVISION		
NO.	ISSUE	DATE

CONSULTANT:

UNION BLOCK BUILDING

124 W WALNUT STR
ROGERS, ARKANSAS 72756

DRAWN BY:
GON
CHECKED BY:
GON

PROJECT #:
25-042

DATE:
01/30/2026

DRAWING:
LS0.1
LIFE SAFETY PLAN

DIVISION 00 - SPECIFICATION GENERAL NOTES

- 00 00 01** FIELD-MEASURE AND VERIFY DIMENSIONS PRIOR TO ORDER OR FABRICATION.
- 00 00 02** PROVIDE SIMILAR ITEMS FROM SAME MANUFACTURER.
- 00 00 03** COORDINATE WORK WITH OTHER TRADES
- 00 00 04** PROVIDE BLOCKING AND SUPPORT FOR MEMBERS ATTACHED TO WALLS.
- 00 00 05** PROVIDE SHOP DRAWINGS FOR ALL STEEL, GLASS, WINDOW FRAMES, ETC., FABRICATIONS TEN BUSINESS DAYS MINIMUM PRIOR TO ORDER AND FABRICATION FOR ARCHITECT'S OR ENGINEER'S REVIEW.
- 00 00 06** PROVIDE MATERIALS TO SITE IN UNHARMED CONDITION. STORE ACCORDING TO MANUFACTURER'S RECOMMENDATIONS AND PROTECT FROM HARM. PROTECT FROM DAMAGE DUE TO WEATHER, TEMPERATURE, ETC.. REPLACE DAMAGED MATERIALS PRIOR TO INSTALLATION.
- 00 00 07** EXAMINE AREAS FOR INSTALLATION PRIOR TO BEGINNING WORK. NOTIFY G.C. OF UNSATISFACTORY CONDITIONS. BEGINNING WORK INDICATES ACCEPTANCE OF CONDITIONS.
- 00 00 08** PROTECT INSTALLED ITEMS FROM DAMAGE DUE TO OTHER TRADES. REPLACE DAMAGED ITEMS.
- 00 00 09** CLEAN AND REMOVE RESIDUE OR STICKERS, ETC FROM INSTALLED MATERIALS. TOUCH-UP AS NECESSARY. CLEAN ANY SPILLS, SPOTS, SMEARS, ETC.
- 00 00 10** PROVIDE MANUFACTURER'S STANDARD WARRANTY AS APPLICABLE.
- 00 00 11** PROPRIETY PRODUCTS AS SELECTED BY THE ARCHITECT AND INDICATED ON THE DRAWINGS / SCHEDULES, ARE THE BE DELIVERED, STORED AND INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S WRITTEN SPECIFICATIONS. REFERENCE MANUFACTURER'S WEBSITE OR PRODUCT SUPPLIER FOR ADDITIONAL INFORMATION.
- 00 00 12** AT YOUR REQUEST AND UPON THE RETURN OF A SIGNED RELEASE AGREEMENT THE ARCHITECT SHALL PROVIDE AN ELECTRONIC FILE FOR YOUR CONVENIENCE TO BE USED IN THE PREPARATION OF A BID OR SHOP DRAWINGS RELATED TO THE PROJECT. A NON-REFUNDABLE FEE OF \$125 FOR EACH ARCHITECTURAL ELECTRONIC CADD SHALL BE CHARGED TO THE REQUESTING PARTY. RELEASE FORM AVAILABLE UPON REQUEST.

DIVISION 01 - GENERAL REQUIREMENTS

- 01 00 00** GENERAL CONDITIONS
- 01 11 00** REFER TO BID INVITATION
- 01 29 00** PAYMENT PROCEDURES: THE CONTRACTOR SHALL SUBMIT CONTRACTOR'S APPLICATION FOR PAYMENT TO ARCHITECT FOR REVIEW. THE ARCHITECT WILL ISSUE A CERTIFICATE FOR PAYMENT TO THE OWNER FOR SUCH AMOUNT THAT THE ARCHITECT DETERMINES IS PROPERLY DUE WITH A COPY TO THE CONTRACTOR. AFTER THE ARCHITECT HAS ISSUED A CERTIFICATION FOR PAYMENT, THE OWNER SHALL MAKE PAYMENT. THE CONTRACTOR SHALL PAY EACH SUBCONTRACTOR PROMPTLY.
- 01 30 00** SUBMITTALS AND SUBSTITUTIONS: SUBMIT COMPLETE DATA FOR PROPOSED SUBSTITUTION INCLUDING MANUFACTURER'S TECHNICAL/DATA SHEETS WITH ITEMS IDENTIFIED. INDICATE DIFFERENCES FROM SPECIFIED ITEM. OWNER AND ARCHITECT WILL SUBMIT WRITTEN ACCEPTANCE IF SUBSTITUTION IS ACCEPTED. ONLY WRITTEN ACCEPTANCES WILL BE HELD VALID. SUBMITTAL REVIEW WILL TAKE TEN (10) BUSINESS DAYS. CONTRACTOR ASSUMES ALL RESPONSIBILITY AND COST FOR CHANGES IN WORK DUE TO SUBSTITUTION. SUBSTITUTION SHALL NOT AFFECT TIME AND COMPLETION OF WORK.
- 01 31 00** PROJECT MANAGEMENT AND COORDINATION: THE CONTRACTOR SHALL EMPLOY A COMPETENT SUPERINTENDENT AND NECESSARY ATTENDANTS AT THE SITE DURING PERFORMANCE OF THE WORK. CORRESPONDENCE SHALL BE TRANSMITTED AND CONFIRMED IN WRITING.
- 01 32 00** CONSTRUCTION PROGRESS DOCUMENTATION: THE CONTRACTOR SHALL PROVIDE FOR APPROVAL A SCHEDULE OF WORK. THE SCHEDULE SHALL WORK WITHIN THE TIME LIMITS SET FORTH BY THE CONTRACT DOCUMENTS. THE SCHEDULE SHALL BE REVISED BI-WEEKLY AND PRESENTED TO THE ARCHITECT AND OWNER. THE CONTRACTOR SHALL PREPARE AND KEEP CURRENT A SCHEDULE OF SUBMITTALS. SUBMITTALS, SHOP DRAWINGS, PRODUCT DATA, AND SAMPLES SHALL BE SUBMITTED TO ARCHITECT AND REVIEWED WITHIN TEN BUSINESS DAYS OF RECEIPT. CONTRACTOR SHALL ORDER NO MATERIALS OR PERFORM NO PORTION OF THE WORK PRIOR TO APPROVAL OF RESPECTIVE SUBMITTALS BY ARCHITECT. CHANGES IN THE CONTRACT SHALL BE MADE BY CHANGE ORDER.
- 01 32 20** PHOTOGRAPHIC DOCUMENTATION: THE CONTRACTOR SHALL KEEP A WEEKLY RECORD OF PROGRESS AT SITE THROUGH PHOTOGRAPHIC DOCUMENTATION. DOCUMENTATION MAY BE DIGITAL AND SHALL BE RECORDED AND AVAILABLE FOR REVIEW AT ANY TIME BY OWNER OR ARCHITECT. DIGITAL COPIES OF THE DOCUMENTATION SHALL BE PROVIDED TO THE ARCHITECT AT THE COMPLETION OF WORK.
- 01 40 00** QUALITY REQUIREMENTS: QUALITY-ASSURANCE AND -CONTROL REQUIREMENTS ARE THE RESPONSIBILITY OF THE CONTRACTOR.
- 01 70 00** EXECUTION REQUIREMENTS: THE CONTRACTOR SHALL KEEP THE PREMISES AND THE SURROUNDING AREA CLEAN AND FREE FROM ACCUMULATION OF WASTE, MATERIALS OR RUBBISH RESULTING FROM WORK AT COMPLETION OF WORK. THE CONTRACTOR SHALL REMOVE ANY WASTE MATERIALS, RUBBISH, TOOLS, EQUIPMENT, MACHINERY AND SURPLUS MATERIALS.
- 01 70 70** CLOSEOUT PROCEDURES: ADMINISTRATIVE AND PROCEDURAL REQUIREMENTS FOR CONTRACT CLOSEOUT ARE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE COORDINATED WITH THE ARCHITECT.
- 01 73 10** CUTTING AND PATCHING: THE CONTRACTOR IS RESPONSIBLE FOR CUTTING, FITTING, AND PATCHING REQUIRED TO COMPLETE THE WORK OR MAKE ITS PARTS FIT TOGETHER PROPERLY.
- 01 78 10** PROJECT RECORD DOCUMENTS: THE CONTRACTOR SHALL MAINTAIN AT THE SITE, ONE RECORD COPY OF THE DRAWINGS, SPECIFICATIONS, ADDENDA, CHANGE ORDERS, AND OTHER MODIFICATIONS IN GOOD ORDER AND MARKED CURRENTLY TO RECORD FIELD CHANGES AND SELECTIONS MADE DURING CONSTRUCTIONS, AND ONE RECORD COPY OF APPROVED SHOP DRAWINGS, PRODUCT DATA, SAMPLES, AND SIMILAR REQUIRED SUBMITTALS.
- 01 78 20** OPERATION AND MAINTENANCE DATA: EMERGENCY, OPERATION, AND MAINTENANCE MANUALS FOR PRODUCTS AND EQUIPMENT SHALL BE PROVIDED PRIOR TO FINAL PAYMENT.

DIVISION 02 - SITE CONSTRUCTION

- 02 00 00** GENERAL NOTES: REFER TO CIVIL DRAWINGS FOR UTILITIES, SITE CLEARING, EARTHWORK, DEWATERING, SANITARY SEWER, IRRIGATION, SUB DRAINAGE, STORM DRAINAGE, PAVING, LANDSCAPING, AND FENCING.
- 02 36 10** TERMITE CONTROL: COMPLY WITH REQUIREMENTS OF GOVERNING BODY. APPLY SOIL TREATMENT AFTER ALL EXCAVATING, FILLING, GRADING, LEVELING AND DEBRIS REMOVAL. OPERATIONS ARE COMPLETE IN FAIR WEATHER CONDITIONS. FOLLOW MANUFACTURER'S RECOMMENDATIONS FOR HANDLING AND APPLICATION OF EPA REGISTERED TERMITICIDE. PROVIDE 5 YEAR WRITTEN WARRANTY GUARANTEEING INFESTATION PREVENTION AND AGREEING TO PAY FOR DAMAGES INCURRED IN THE CASE OF INFESTATION. APPLICATION IS REQUIRED UNDER SLABS, SIDEWALKS, RAMPS, AND PAVING, WITHIN BORDER OF ROOF LINE, AT FLOOR DRAINS AND TRAPS, BELOW EXPANSION, CONTROL JOINTS, AND SLAB PENETRATIONS; ALONG BOTH SIDES OF FOUNDATION WALLS, AROUND PERIMETER OF FOOTINGS, BEAMS, AND PIERS.
- 02 92 20** LAWNS AND GRASSES: FURNISH ALL LABOR, MATERIALS, TOOLS, AND INCIDENTALS NECESSARY TO RESTORE THE SURFACE OF ALL AREAS AFFECTED BY CONSTRUCTION. TOPSOIL UTILIZED SHALL BE CLEAN, NON-TOXIC, OF CORRECT PH, FERTILE, FRIABLE, AND WITH LIBERAL CONTENTS OF HUMUS, AND CAPABLE OF SUSTAINING VIGOROUS PLANT GROWTH; SOW BLEND OF K-13 FESCUE AND LESPEDEZAINTO FRESHLY SCARIFIED SOIL. PLANT EVENLY AT RATE OF 100 LBS PER ACRE, LIGHTLY RAKED, AND WATERED WITH A FINE SPRAY. MULCH WITHIN 24 HOURS.

DIVISION 03 - CONCRETE

- 03 30 00** CAST-IN-PLACE CONCRETE: CONDUCT PRE-INSTALLATION CONFERENCE. PROVIDE PRODUCT DATA FOR EACH PRODUCT. SUBMIT DESIGN MIXTURE FOR ENGINEER'S REVIEW 10 WORKING DAYS MINIMUM PRIOR TO PLACEMENT. PROVIDE SHOP DRAWINGS FOR FORMWORK AND STEEL REINFORCEMENT FOR ENGINEER'S REVIEW. USE FORMWORK FACING AND BONDING AGENT APPROPRIATE TO FINISH REQUIRED. REFER TO STRUCTURAL DRAWINGS AND NOTES FOR FORMWORK. COORDINATE WITH OTHER SIOORS FOR IMBED MATERIALS, CONDUIT LOCATIONS, ATTACHMENTS, ETC.. PROVIDE 6" LAP JOINT AT REQUIRED POLYETHYLENE FILM VAPOR BARRIER. PROVIDE WATERSTOPS, SEALER, EXPANSION JOINT FILLER, ETC AS SHOWN. FINISH FLOOR SLABS WITH FLOAT FINISH UNLESS OTHERWISE INDICATED ON DRAWINGS. BROOM FINISH ANY EXTERIOR RAMPS, STEPS, PLATFORMS, ETC. CURE CONCRETE ACCORDING TO ACI 308.1. PATCH OR REPAIR DEFECTIVE AREAS AS APPROVED BY ARCHITECT. PERFORM REQUIRED TESTING AND INSPECTION. PROTECT CONCRETE DURING CURING PROCESS AND FROM OTHER WORK.
- 03 36 00** DYED OR STAINED CONCRETE FINISH SYSTEM: IF SPECIFIED THE FINISH SYSTEM SHALL BE PROTECTED AGAINST UNDUE SOILAGE AND DAMAGE BY OTHER TRADES BY THE USE OF REASONABLE CARE AND PRECAUTION DURING PROCESS OF INSTALLATION AND AFTER COMPLETION OF INSTALLATION. PRIOR TO INSTALLATION OF CONCRETE FINISH SYSTEM CONTRACTOR SHALL PROVIDE MINIMUM 4"x4" MOCKUP A THE JOB SITE IN AREA WHERE FLOOR COVERING IS TO BE INSTALLED OVER CONCRETE FLOOR SLAB. TENANT SHALL APPROVE COLOR BLEND AND WORKMANSHIP OF THIS MOCK-UP. THIS SHALL NOT BECOME PART OF THE FINISHED WORK. APPLY DYE OR STAIN PER MANUFACTURER'S WRITTEN INSTRUCTIONS. LEAVE NOT BROOM MARKS WHEN CURED. APPLY ONE COAT SOLVENT BASED SEALER OVER STAINED FLOOR.

DIVISION 04 - CONCRETE UNIT MASONRY

- 04 22 00** PROVIDE ALL LABOR MATERIALS AND ACCESSORIES ASSOCIATED WITH CONCRETE MASONRY UNIT INSTALLATION. PROVIDE SHOP DRAWINGS FOR REINFORCING STEEL TWO WEEKS BEFORE INSTALLATION FOR ENGINEER'S REVIEW. COORDINATE ALL ACCESSORIES, TIES, ANCHORS, PENETRAL, MANHOLE, ELECTRICAL, ETC. WITH STRUCTURAL DRAWINGS. PROVIDE ALL MATERIALS TO SITE. DO NOT USE FROZEN MATERIALS OR MATERIALS MIXED OR COATED WITH ICE OR FROST. DO NOT BUILD ON FROZEN SUBSTRATES. REMOVE AND REPLACE UNIT MASONRY DAMAGED BY FROST OR BY FREEZING CONDITIONS. COMPLY WITH COLD-WEATHER CONSTRUCTION REQUIREMENTS CONTAINED IN ACI 530.1/ASCE 6/TMS 602. COMPLY WITH HOT-WEATHER CONSTRUCTION REQUIREMENTS CONTAINED IN ACI 530.1/ASCE 6/TMS 602. PROVIDE SPECIAL SHAPES FOR LINTELS, CORNERS, JAMBS, SASHES, MOVEMENT JOINTS, HEADERS, BONDING, AND OTHER SPECIAL CONDITIONS. PROVIDE UNITS MADE WITH LIQUID POLYMERIC, INTEGRAL WATER-REPELLENT MORTAR ADHESIVE THAT DOES NOT REDUCE FLEXURAL BOND STRENGTH FOR EXPOSED UNITS. UNIT COMPRESSIVE STRENGTH: PROVIDE UNITS WITH MINIMUM AVERAGE NET-AREA COMPRESSIVE STRENGTH OF 2,000 PSI. WEIGHT CLASSIFICATION: NORMAL WEIGHT. MANUFACTURED WITH PRE-FACED SURFACES HAVING 1/16-INCH- WIDE RETURNS OF FACING TO CREATE 1/4-INCH- WIDE MORTAR JOINTS. PROVIDE EITHER CONCRETE OR MASONRY LINTELS, AT CONTRACTOR'S OPTION. CONCRETE LINTELS SHALL BE MANUFACTURED WITH REINFORCING BARS AND WITH REINFORCING BARS INDICATED OR REQUIRED TO SUPPORT LOADS INDICATED, FORMED-IN-PLACE CONCRETE LINTELS COMPLYING WITH REQUIREMENTS IN DIVISION 3 OR MASONRY LINTELS MADE FROM BOND BEAM CONCRETE MASONRY UNITS WITH REINFORCING BARS PLACED AS INDICATED AND FILLED WITH COARSE GROUT. MORTAR AND GROUT MATERIALS TO BE PORTLAND CEMENT: ASTM C 150, TYPE I OR II, EXCEPT TYPE III MAY BE USED FOR COLD-WEATHER CONSTRUCTION, OR HYDRATED LIME: ASTM C 207/1, TYPE S. MASONRY CEMENT SHALL NOT BE USED FOR MORTAR OR GROUT. LIQUID WATER-REPELLENT MORTAR ADHESIVE: LIQUID WATER-REPELLENT MORTAR ADHESIVE. PRE-MIXED CONCRETE MASONRY UNITS, CONTAINING INTEGRAL WATER REPELLENT BY SAME MANUFACTURER. WATER: POTABLE. PRE-MIXED MORTAR ADHERING TO ABOVE MENTIONED SPECIFICATIONS WILL BE ACCEPTABLE. PROVIDE UNCOATED STEEL REINFORCING BARS: ASTM A 615/A 615M OR ASTM A 996/A 996M, GRADE 60. MASONRY JOINT REINFORCEMENT: ASTM A 951; MILL GALVANIZED, CARBON-STEEL WIRE FOR INTERIOR WALLS AND HOT-DIP GALVANIZED, CARBON-STEEL WIRE FOR EXTERIOR WALLS. ADJUSTABLE ANCHORS FOR CONNECTING TO STRUCTURE: PROVIDE ANCHORS THAT ALLOW VERTICAL OR HORIZONTAL ADJUSTMENT BUT RESIST TENSION AND COMPRESSION FORCES PERPENDICULAR TO PLANE OF WALL. PROVIDE METAL FLASHING, WHERE FLASHING IS EXPOSED OR PARTLY EXPOSED AND WHERE INDICATED. FABRICATE METAL DRIP EDGES: FROM STAINLESS STEEL, EXTEND AT LEAST 3 INCHES INTO WALL AND 2 INCH OUT FROM WALL, WITH OUTER EDGE BENT DOWN 30 DEGREES AND HEMMED. FABRICATE METAL FLASHING TERMINATIONS: FROM STAINLESS STEEL, EXTEND AT LEAST 3 INCHES FROM FACE OF WALL. AT EXTERIOR FACE OF WALL, AT LEAST 3 INCHES FROM FACE OF WALL, OR IN CONTACT WITH EARTH, 1/2 INCH AND DOWN INTO JOINT 3/8 INCH TO FORM A STOP FOR RETAINING SEALANT BACKER ROD. FABRICATE METAL EXPANSION-JOINT STRIPS: FROM STAINLESS STEEL TO SHAPES INDICATED. FOR FLASHING NOT EXPOSED TO THE EXTERIOR, USE ELASTOMERIC THERMOPLASTIC FLASHING; COMPOSITE FLASHING PRODUCT CONSISTING OF A POLYESTER-REINFORCED ETHYLENE INTERPOLYMER ALLOY 0.025 INCH THICK, WITH A 0.015-INCH- THICK COATING OF RUBBERIZED-ASPHALT ADHESIVE. PROVIDE PREFORMED CONTROL-JOINT GASKETS: MADE FROM STYRENE-BUTADIENE RUBBER COMPOUND, COMPLYING WITH ASTM D 2001, GRADE 1 OR IN CONTACT WITH EARTH, COMPLYING WITH ASTM D 2287, TYPE PVC-65406 AND DESIGNED TO FIT STANDARD SASH BLOCK AND TO MAINTAIN LATERAL STABILITY IN MASONRY WALL. BOND-BREAKER STRIPS: ASPHALT-SATURATED, ORGANIC ROOFING FELT COMPLYING WITH ASTM D 226, TYPE I (NO. 15 ASPHALT FELT). PROVIDE WEEPVENT PRODUCTS: USE ONE OF THE FOLLOWING, UNLESS OTHERWISE INDICATED: RECTANGULAR PLASTIC WEEPVENT TUBING, CLEAR BUTYRATE, 3/8 BY 1-1/2 BY 1/2 INCHES LONG. CELLULAR PLASTIC WEEPVENT, 3/8 BY 1-1/2 BY 1/2 INCHES LONG. EXTRUSION MADE FROM UV-RESISTANT POLYPROPYLENE COPOLYMER, FULL HEIGHT AND WIDTH OF HEAD, JOINT AND DEPTH 1/8 INCH LESS THAN DEPTH OF OUTER WYTHE, IN COLOR SELECTED FROM MANUFACTURER'S STANDARD. CAVITY DRAINAGE MATERIAL: FREE-DRAINING MESH, MADE FROM POLYMER STRANDS THAT WILL NOT DEGRADE WITHIN THE WALL CAVITY. USE MANUFACTURER'S STANDARD-STRENGTH CLEANER DESIGNED FOR REMOVING MORTARGROUT STAINS FROM NEW MASONRY WITHOUT DAMAGING MASONRY. USE PRODUCT APPROVED FOR USE BY CONTRACTOR AND MANUFACTURER OF MASONRY UNITS BEING CLEANED. PRE-MIXED MORTAR ADHERING TO THE FOLLOWING SPECIFICATIONS WILL BE ACCEPTABLE. DO NOT USE ADMIXTURES, UNLESS OTHERWISE INDICATED. DO NOT USE CALCIUM CHLORIDE IN MORTAR OR GROUT. LIMIT CEMENTITIOUS MATERIALS IN MORTAR FOR EXTERIOR AND REINFORCED MASONRY TO PORTLAND CEMENT AND LIME. ADD COLD-WEATHER ADMIXTURE (IF USED) AT SAME RATE FOR ALL MORTAR THAT WILL BE EXPOSED TO VIEW, REGARDLESS OF WEATHER CONDITIONS, TO ENSURE THAT MORTAR COLOR IS CONSISTENT. MORTAR FOR UNIT MASONRY: COMPLY WITH ASTM C 270, GRADE S. MORTAR FOR REINFORCED MASONRY: COMPLY WITH ASTM C 270, GRADE S. FOR REINFORCED MASONRY, USE TYPE S. FOR EXTERIOR, ABOVE-GRADE, LOAD-BEARING AND NON-LOAD-BEARING WALLS AND PARAPET WALLS; FOR INTERIOR LOAD-BEARING WALLS, USE TYPE S. FOR MORTAR PARGE COATS, USE TYPE S. FOR INTERIOR NON-LOAD-BEARING PARTITIONS; AND FOR OTHER APPLICATIONS WHERE ANOTHER TYPE IS NOT INDICATED, USE TYPE N. GROUT FOR UNIT MASONRY: COMPLY WITH ASTM C 476. ALL GROUT SHALL BE READY-MIX CONCRETE & HAVE A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 2000 PSI. PROVIDE GROUT WITH A SLUMP OF 8 TO 11 INCHES AS MEASURED ACCORDING TO ASTM C 143/C 143M. USE FULL-SIZE UNITS WITHOUT CUTTING IF POSSIBLE. IF CUTTING IS REQUIRED, CUT UNITS WITH MOTOR-DRIVEN SAWS; PROVIDE CLEAN, SHARP, UNCHIPPED EDGES. ALLOW UNITS TO DRY BEFORE LAYING UNLESS WETTING OF UNITS IS SPECIFIED. INSTALL CUT UNITS WITH CUT SURFACES AND, WHERE POSSIBLE, CUT EDGES CONCEALED. SELECT AND ARRANGE UNITS FOR EXPOSED UNIT MASONRY TO PRODUCE A UNIFORM BLEND OF COLORS AND TEXTURES. COMPLY WITH ACI 530.1/ASCE 6/TMS 602 AND WITH THE FOLLOWING: FOR CONSPICUOUS VERTICAL LINES, SUCH AS EXTERNAL CORNERS, DOOR JAMBS, REVEALS, AND EXPANSION AND CONTROL JOINTS, DO NOT VARY FROM PLUMB BY MORE THAN 1/8 INCH IN 10 FEET, 1/4 INCH IN 20 FEET, OR 1/2 INCH MAXIMUM. FOR CONSPICUOUS HORIZONTAL LINES, SUCH AS LINTELS, SILLS, PARAPETS, AND REVEALS, DO NOT VARY FROM LEVEL BY MORE THAN 1/8 INCH IN 10 FEET, 1/4 INCH IN 20 FEET, OR 1/2 INCH MAXIMUM. LAY OUT WALL S IN ADVANCE FOR ACCURATE SPACING OF SURFACE BOND PATTERNS WITH UNIFORM JOINT THICKNESSES AND FOR ACCURATE LOCATION OF OPENINGS, MOVEMENT- TYPE JOINTS, RETURNS, AND OFFSETS. AVOID USING LESS-THAN-HALF-SIZE UNITS, PARTICULARLY AT CORNERS, JAMBS, AND, WHERE POSSIBLE, AT OTHER LOCATIONS. BOND PATTERN FOR EXPOSED MASONRY: UNLESS OTHERWISE INDICATED, LAY EXPOSED MASONRY IN RUNNING BOND; DO NOT USE UNITS WITH LESS THAN NOMINAL 4-INCH HORIZONTAL FACE DIMENSIONS AT CORNERS OR JAMBS. AS CONSTRUCTION PROGRESSES, BUILD IN ITEMS SPECIFIED IN THIS AND OTHER SECTIONS. FILL IN SOLIDLY WITH MASONRY AROUND BUILT-IN ITEMS. FILL SPACE BETWEEN AND MAX FRAMES AND MASONRY UNITS WITH MORTAR, UNLESS OTHERWISE INDICATED. FILL CORERS IN HOLLOW CONCRETE MASONRY UNITS WITH GROUT 24 INCHES UNDER BEARING PLATES, BEAMS, LINTELS, POSTS, AND SIMILAR ITEMS, UNLESS OTHERWISE INDICATED. HOLLOW BRICK AND CONCRETE MASONRY UNITS AS FOLLOWS: WITH FACE SHELLS FULLY BEDDED IN MORTAR AND WITH HEAD JOINTS OF DEPTH EQUAL TO BED JOINTS, WITH WEBS FULLY BEDDED IN MORTAR IN ALL COURSES OF PIERS, COLUMNS, AND PILASTERS, WITH WEBS FULLY BEDDED IN MORTAR IN GROUDED MASONRY, INCLUDING STAIRCASES AND FOOTINGS, WITH ENTIRE UNITS, INCLUDING AREAS UNDER CELLS, FULLY BEDDED IN MORTAR AT STARTING COURSE ON FOOTINGS WHERE CELLS ARE NOT GROUTED. LAY SOLID MASONRY UNITS WITH COMPLETELY FILLED BED AND HEAD JOINTS; BUTTER ENDS WITH SUFFICIENT MORTAR TO FILL HEAD JOINTS AND SHOVE INTO PLACE. DO NOT DEEPLY FURROW BED JOINTS OR SLUSH HEAD JOINTS. TOOL EXPOSED JOINTS SLIGHTLY CONCAVE WHEN THUMBPRINT HARD, USING A JOINTER LARGER THAN JOINT THICKNESS, UNLESS OTHERWISE INDICATED. CUT JOINTS FRESH FOR MASONRY WALLS TO RECEIVE PLASTER OR OTHER DIRECT-APPLIED FINISH MATERIALS. IN MORTAR JOINTS, UNLESS OTHERWISE INDICATED, INSTALL IN MORTAR JOINTS OF 5/8 INCH ON EXTERIOR SIDE OF WALLS, 1/2 INCH ELSEWHERE. LAP REINFORCEMENT A MINIMUM OF 6 INCHES. INTERJOINT JOINT REINFORCEMENT AT CONTROL AND EXPANSION JOINTS, UNLESS OTHERWISE INDICATED. PROVIDE CONTINUITY AT WALL INTERSECTIONS BY USING PREFABRICATED T-SHAPED UNITS. PROVIDE CONTINUITY AT CORNERS BY USING PREFABRICATED L-SHAPED UNITS. INSTALL EMBEDDED FLASHING AND WEEP HOLES IN MASONRY AT SHELF ANGLES, LINTELS, LEDGES, OTHER OBSTRUCTIONS TO DOWNWARD FLOW OF WATER IN WALL, AND WHERE INDICATED, INSTALL VENTS AT SHELF ANGLES, LEDGES, AND OTHER OBSTRUCTIONS TO UPWARD FLOW OF AIR IN CAVITIES, AND WHERE INDICATED, PREPARE MASONRY SURFACES SO THEY ARE SMOOTH AND FREE FROM PROJECTIONS THAT COULD PUNCTURE FLASHING, WHERE FLASHING IS WITHIN MORTAR JOINT. PLACE THROUGH-WALL FLASHING ON SLOPING BED OF MORTAR AND COVER WITH MORTAR, BEFORE COVERING WITH MORTAR, SEAL PENETRATIONS IN FLASHING AS RECOMMENDED BY FLASHING MANUFACTURER. AT LINTELS AND SHELF ANGLES, EXTEND FLASHING A MINIMUM OF 6 INCHES INTO MASONRY AT EACH END, AT HEADS AND SILLS, EXTEND FLASHING 6 INCHES AT ENDS AND TURN UP NOT LESS THAN 2 INCHES TO FORM END DAMS. INSTALL METAL DRIP EDGES BENEATH FLEXIBLE FLASHING AT EXTERIOR FACE OF WALL. STOP FLEXIBLE FLASHING 1/2 INCH BACK FROM OUTSIDE FACE OF WALL AND ADHERE FLEXIBLE FLASHING TO TOP OF METAL DRIP EDGE. INSTALL METAL FLASHING TERMINATION BENEATH FLEXIBLE FLASHING AT EXTERIOR FACE OF WALL. STOP FLEXIBLE FLASHING 1/2 INCH BACK FROM OUTSIDE FACE OF WALL AND ADHERE FLEXIBLE FLASHING TO TOP OF METAL FLASHING TERMINATION. INSTALL WEEP HOLES IN HEAD JOINTS IN EXTERIOR WYTHES OF FIRST COURSE OF MASONRY IMMEDIATELY ABOVE EMBEDDED FLASHING AND AS FOLLOWS: USE SPECIFIED WEEPVENT PRODUCTS OR OPEN HEAD JOINTS TO FORM WEEP HOLES. SPACE WEEP HOLES 24 INCHES O.C., UNLESS OTHERWISE INDICATED. COVER CAVITY SIDE OF WEEP HOLES WITH PLASTIC INSECT SCREENING AT CAVITIES INSULATED WITH LOOSE-FILL INSULATION. PLACE CAVITY DRAINAGE MATERIAL IN CAVITIES TO COMPLY WITH CONFIGURATION REQUIREMENTS FOR CAVITY DRAINAGE MATERIAL, PER MANUFACTURER. OWNER WILL ENGAGE QUALIFIED INDEPENDENT INSPECTORS TO PERFORM INSPECTIONS AND PREPARE REPORTS. ALLOW INSPECTORS ACCESS TO SCAFFOLDING AND WORK AREAS, AS NEEDED TO PERFORM INSPECTIONS. PLACE GROUT ONLY AFTER INSPECTORS HAVE VERIFIED COMPLIANCE OF GROUT SPACES AND GRADES, SIZES, AND LOCATIONS OF REINFORCEMENT. OWNER WILL ENGAGE A QUALIFIED INDEPENDENT TESTING AND INSPECTING AGENCY TO PERFORM FIELD TESTS AND INSPECTIONS INDICATED BELOW AND PREPARE TEST REPORTS: PAYMENT FOR THESE SERVICES WILL BE MADE BY OWNER. TESTING FREQUENCY IN FIRST PARAGRAPH BELOW: TEST EACH COURSE OF MASONRY AND THE 1997 UNIFORM BUILDING CODE. TESTING FREQUENCY: ONE SET OF TESTS FOR EACH 5000 SQ. FT. OF WALL AREA OR PORTION THEREOF. CLAY MASONRY UNIT TEST: FOR EACH TYPE OF UNIT PROVIDED, PER ASTM C 67. CONCRETE MASONRY UNIT TEST: FOR EACH TYPE OF UNIT PROVIDED, PER ASTM C 140. MORTAR TEST (PROPERTY SPECIFICATION): FOR EACH MIX PROVIDED, PER ASTM C 780. TEST MORTAR FOR MORTAR AIR CONTENT AND COMPRESSIVE STRENGTH. GROUT TEST (COMPRESSIVE STRENGTH): FOR EACH MIX PROVIDED, PER ASTM C 1019. RETESTING OF MATERIALS THAT FAIL TO COMPLY WITH SPECIFIED REQUIREMENTS SHALL BE DONE AT CONTRACTOR'S EXPENSE. PARGE EXTERIOR FACES OF BELOW-GRADE MASONRY WALLS, WHERE INDICATED, IN 2 UNIFORM COATS TO A TOTAL THICKNESS OF 3/4 INCH WITH A STEEL-TROWEL FINISH. FORM A WASH AT TOP OF PARGING AND A COVE AT BOTTOM. DAMP-CURE PARGING FOR AT LEAST 24 HOURS AND PROTECT PARGING UNTIL CURED. IN-PROGRESS CLEANING: CLEAN UNIT MASONRY AS WORK PROGRESSES BY DRY BRUSHING TO REMOVE MORTAR FINS AND SMEARS BEFORE TOOLING JOINTS. FINAL CLEANING: AFTER MORTAR JOINTS ARE THOROUGHLY SET AND CURED, CLEAN EXPOSED MASONRY AS FOLLOWS: TEST CLEANING METHODS ON SAMPLE WALL PANEL; LEAVE ONE-HALF OF PANEL UNCLEANED FOR COMPARISON PURPOSES. PROTECT ADJACENT SURFACES FROM CONTACT WITH CLEANER. WET WALL SURFACES WITH WATER BEFORE APPLYING CLEANERS; REMOVE CLEANERS PROMPTLY BY RINSING SURFACES THOROUGHLY WITH CLEAR WATER. CLEAN BRICK BY BUCKET-AND-BRUSH HAND-CLEANING METHOD DESCRIBED IN BIA TECHNICAL NOTES 20. CLEAN MASONRY WITH A PROPRIETARY ACIDIC CLEANER APPLIED ACCORDING TO MANUFACTURER'S WRITTEN INSTRUCTIONS. CLEAN CONCRETE MASONRY BY CLEANING METHOD INDICATED IN NCMA TEK 8-24 APPLICABLE TO TYPE OF STAIN ON EXPOSED SURFACES. WASTE DISPOSAL AS FILL MATERIAL: DISPOSE OF CLEAN MASONRY WASTE, INCLUDING EXCESS OR SOIL-CONTAMINATED SAND, WASTE MORTAR, AND BROKEN MASONRY UNITS, BY CRUSHING AND MIXING WITH FILL MATERIAL AS FILL IS PLACED. DO NOT DISPOSE OF MASONRY WASTE AS FILL WITHIN 18 INCHES OF FINISHED GRADE. REMOVE EXCESS CLEAN MASONRY WASTE THAT CANNOT BE USED AS FILL, AS DESCRIBED ABOVE, AND OTHER MASONRY WASTE, AND LEGALLY DISPOSE OF OFF OWNER'S PROPERTY.

DIVISION 05 - METALS

- 05 00 00** SEE ALSO - DIVISION 13 - SPECIAL CONSTRUCTION
- 05 00 01** PROVIDE STEEL STRUCTURE INCLUDING COLUMNS, MOMENT FRAMES, JOISTS, GERTS, DECKING, AND ALL NECESSARY ATTACHMENTS TO BE INDEPENDENTLY ENGINEERED TO WORK WITH CONSTRUCTION DOCUMENTS INCLUDING COLUMN SPACING AND FOOTING DESIGNS FOR THE METAL BUILDING SYSTEM METAL BUILDING SYSTEM PACKAGE. IT TO INCLUDE STAMPED DRAWING BY ENGINEER REGISTERED IN ARKANSAS FOR CITY OF HIGHFILL APPROVAL. SHOP DRAWINGS SHALL BE SUBMITTED FOR ARCHITECT'S AND FOUNDATION ENGINEER'S REVIEW PRIOR TO FABRICATION. STRUCTURAL STEEL SHALL BE MANUFACTURED BY SINGLE MANUFACTURER. METAL BUILDING SYSTEM MANUFACTURER SHALL COORDINATE FABRICATION AND DELIVERY WITH GENERAL CONTRACTOR. METAL PANELS, ROOFING, FASCIA, GUTTERS, DOWNSPOUTS, AND TRIM TO BE PROVIDED IN PRE-ENGINEERED METAL BUILDING PACKAGE BY A SINGLE MANUFACTURER. MBGI IS SPECIFIED, OR APPROVED EQUAL.
- 05 12 00** STRUCTURAL STEEL: FOLLOW APPLICABLE CODES AND STANDARDS FOR STEEL ERECTION INCLUDING, BUT NOT LIMITED TO AISC "CODE OF STANDARD PRACTICE FOR STEEL BUILDING AND BRIDGES," "SPECIFICATIONS FOR STRUCTURAL STEEL BUILDINGS" INCLUDING "COMMENTARY," "SPECIFICATIONS FOR STRUCTURAL JOINTS USING ASTM A 325 OR A 490 BOLTS" AND AWS D1.1 "STRUCTURAL WELDING CODE- STEEL," COMPLY WITH APPLICABLE LOCAL, REGIONAL, STATE AND FEDERAL REGULATION FOR TESTING. WELDERS MUST BE QUALIFIED. REFER TO ARCHITECTURAL DRAWINGS FOR DESCRIPTIONS, NOTES, AND DRAWINGS OF STRUCTURAL MEMBERS. SHOP PRIME ALL MEMBERS EXCEPT AS NOTED.

- 05 40 00** LIGHTGAGE METAL FRAMING: SUBMIT COPY OF MANUFACTURER'S INSTALLATION INSTRUCTIONS AND SHOP DRAWINGS. COMPLY WITH AISI "SPECIFICATIONS FOR DESIGN OF COLD FORMED STEEL STRUCTURAL MEMBERS." PROVIDE USG, DIETRICH, OR APPROVED EQUAL. PROVIDE MANUFACTURER'S STANDARD GALVANIZED FINISH C- SHAPED STUDS, IN GAGE AND IN SIZE AS INDICATED, PUNCHED, WITH STANDARD FLANGE AND RETURN LIP. PROVIDE MANUFACTURER'S STANDARD GALVANIZED FINISH U- SHAPED TRACK, UNPUNCHED, WITH STRAIGHT EDGES AND IN SIZE AND GAGE TO MATCH STUDS. PROVIDE ALL BLOCKING, LINTELS, CLIP ANGLES, SHOES, REINFORCEMENTS, FASTENERS, X-BRACING, AND ACCESSORIES AS RECOMMENDED FOR COMPLETE INSTALLATION BY MANUFACTURER. PROVIDE CORROSION RESISTANT FASTENERS, AND REPAIR DAMAGED SURFACES WITH GALVANIZING REPAIR PAINT AS NECESSARY. INSTALL RUNNER TRACKS AS RECOMMENDED BY MANUFACTURER. CONTINUOUSLY, DO NOT EXCEED 16" SPACING FOR ATTACHMENT WITH FASTENERS AT ALL ENDS AND CORNERS. INSTALL STUDS AT 16" O.C. UNLESS OTHERWISE NOTED. SECURE TOP AND BOTTOM TO RUNNER TRACKS. SET STUDS AND TRACKS TRUE AND PLUMB, PROVIDE STIFFENERS (NOT MORE THAN 5' O.C. VERTICALLY) AS NEEDED. FRAME 2' OR LARGER WALL OPENINGS WITH DOUBLE STUDS AT EACH JAMB. FRAME BOTH SIDES OF EXPANSION AND CONTROL JOINTS WITH INDEPENDENT, SEPARATE STUDS.
- 05 50 00** METAL FABRICATIONS: PROVIDE SHOP DRAWINGS PRIOR TO FABRICATION FOR ENGINEER'S AND/OR ARCHITECT'S REVIEW. PREASSEMBLE ITEMS TO GREATEST EXTENT POSSIBLE. PROVIDE FASTENERS, GROUTS, WELDING RODS, EXPANSION SHIMS, WASHERS, ADHESIVES, RODS AND ANY OTHER MISCELLANEOUS ACCESSORIES AS NECESSARY FOR INSTALLATION. WELD IN ACCORDANCE WITH AWS SPECIFICATIONS BY A CERTIFIED WELDER. FORM OF PROPER THICKNESS, WITH CLEAN AND ACCURATE ALTERATIONS, TRUE TO LINE AND LEVEL WITH STRAIGHT SHARP EDGES, REMOVE BURRS. USE CONCEALED FASTENERS WHEREVER POSSIBLE. FORM CONNECTIONS TO EXCLUDE WATER AND/OR WEEP. MAKE PROVISIONS FOR ANY HARDWARE OR ANCHORAGE TO BE INSTALLED. CLEAN, PRIME, AND SHOP PAINT EXPOSED WORK.

DIVISION 06 - WOODS AND PLASTICS

- 06 10 00** ROUGH CARPENTRY: PROVIDE CONCEALED FRAMING, STUDS, FURRING, PLYWOOD OR OTHER WALL SHEATHING, BUILDING PAPER OR WRAP, BLOCKING, BRACING, CANTS, NAILERS, ETC. PROVIDE GOOD CONDITION NO. 2 SOUTHERN PINE OR BETTER LUMBER FOR BLOCKING, ETC. PROVIDE PS-1, EXTERIOR GRADE C-C OR C-D OR BETTER APA RATED EXTERIOR SHEATHING. PROVIDE #15 ASPHALT SATURATED FIBERGLASS FELT. PROVIDE ALL GALVANIZED FASTENERS. PROVIDE WOOD PRESERVATIVE TREATMENTS OR TREATED WOOD FOR USES NEAR ROOF, WINDOWS, CONCRETE, OR OTHER AREAS WHERE WATER DAMAGE COULD OCCUR. COAT CUT TREATED SURFACES WITH SAME TREATMENT. INSTALL WITHOUT SPLITTING WOOD, WITH TIGHT CONNECTIONS, ANCHOR SECURELY AND RIGIDLY.
- 06 10 50** MISCELLANEOUS CARPENTRY: MINOR WOOD FRAMING, FURRING, GROUNDS, NAILERS, BLOCKING, WOOD TRIM, AND SHELVING AS SHOWN ON DRAWINGS.
- 06 40 20** INTERIOR ARCHITECTURAL WOOD WORK: SUBMIT COPY OF SHOP DRAWINGS. SUBMIT SAMPLES OF CABINET HARDWARE, LUMBER WITH FINISH, PLASTIC LAMINATES AND OTHER FINISHES. DON NOT DELIVER OR INSTALL WOODWORK UNTIL BUILDING IS ENCLOSED, WET WORK IS COMPLETE AND HVAC SYSTEM IS OPERATION AND MAINTAINING TEMPERATURE AND RELATIVE HUMIDITY AT OCCUPANCY LEVELS DURING THE REMAINDER OF THE CONSTRUCTION PERIOD. WOOD SPECIES AND FINISH AS INDICATED ON DRAWINGS. LAMINATE AS CHOSEN BY TENANT ADHERED TO CABINET FRONT AND EDGES. MELAMINE INTERIORS ARE ACCEPTABLE. CAULK SPACES BETWEEN BACKSPLASH AND WALL WITH SEALANT SPECIFIED IN DIVISION 7. INSTALL WOODWORK LEVEL, PLUMB, TRUE, AND STRAIGHT TO A TOLERANCE OF 1/8 INCH IN 96 INCHES. SHIM AS REQUIRED 40 WITH CONCEALED SHIMS.

DIVISION 07 - THERMAL AND MOISTURE PROTECTION

- 07 00 00** PROVIDE AND INSTALL VINYL-FACED METAL BUILDING INSULATION. PROVIDE AND INSTALL ALL FASCIA, PARAPET CAPS, INTERNAL GUTTER W/ INSULATION, AND ROOFING TRIM AND ACCESSORIES. PROVIDE GUTTERS AND DOWNSPOUTS AS SHOWN ON CONSTRUCTION DOCUMENTS.
- 07 19 00** WATER REPELLENTS: EXPOSED EXTERIOR MASONRY: PROVIDE PROSCOCO SUREKLEEN WEATHERSEAL SILOXANE WB CONCENTRATE. HYDROZO ENVIROSEAL DOUBLE 7, CHEMA-TRETE AQUA TRET EULSION EM, OR APPROVED EQUAL. PROTECT ADJOINING SURFACES FROM OVERSPRAY OR SPILLAGE AS RECOMMENDED BY MANUFACTURER. APPLY APPLICATION TO MANUFACTURER'S WRITTEN INSTRUCTIONS WITH NO LESS THAN 2 COATS. COORDINATE TEST SITE APPLICATION FOR ARCHITECT'S APPROVAL PRIOR TO INSTALLATION.
- 07 21 00** PROVIDE VAPOR BARRIER: AS RECOMMENDED BY MANUFACTURER. INSTALL ACCORDING TO MANUFACTURER'S INSTRUCTIONS. PROVIDE TYPEK OR APPROVED EQUAL.
- 07 22 00** BUILDING INSULATION: PROVIDE INSULATION AS INDICATED ON CONSTRUCTION DOCUMENTS. INSTALL ACCORDING TO MANUFACTURER'S WRITTEN INSTRUCTIONS. CUT TIGHTLY AROUND OBSTRUCTIONS AND FILL VOIDS COMPLETELY. TAPE AS REQUIRED. PROVIDE AND INSTALL 6" (R-19) MINIMUM PAPER FACED FIBERGLASS BATTS- OCF, CERTAINTED, MANVILLE, OR APPROVED EQUAL. PROVIDE FOAM BOARD PERIMETER INSULATION IN THICKNESS INDICATED. DOW "SM" EXTRUDED POLYSTYRENE OR APPROVED EQUAL. PROVIDE ALL ADHESIVE, ANCHORS, FASTENERS, RETAINER STRIPS, OR OTHER COMPONENTS AS REQUIRED BY PROJECT CONDITIONS OR RECOMMENDED BY MANUFACTURER FOR COMPLETE INSTALLATION.
- 07 27 00** FIRESTOPPING: PROVIDE FIRESTOPPING AND SMOKESEALS INCLUDING: OPENINGS IN FIRE-RATED WALLS AND EXPANSION JOINTS IN FIRE RATED WALLS. PROVIDE PRODUCT DATA AND CERTIFICATION. PROVIDE MATERIALS CONFORMING TO FLAME AND TEMPERATURE RATINGS PER ASTM E 814 OR UL 1479 TO PROVIDE A RATING NOT LESS THAN ONE HOUR OR THE FIRE RESISTANCE RATING OF THE ASSEMBLY BEING PENETRATED- WHICHEVER IS MORE. PROVIDE INSTALLATION, CURING, AND INSTALLATION EQUIPMENT APPROVED BY FIRESTOP MANUFACTURER. "SM" FIRE PROTECTION PRODUCTS, TREMCO FIRESTOPPING, OR APPROVED EQUAL.
- 07 41 10** METAL ROOF PANELS: COMPLY WITH APPLICABLE STANDARD INCLUDING, BUT NOT LIMITED TO: SMACNA: "ARCHITECTURAL SHEET METAL MANUAL" SHEET METAL AND AIR CONDITIONING CONTRACTORS NATIONAL ASSOCIATION, INC., LQSI: "LIGHT GAGE STRUCTURAL INSTITUTE", AISC: "STEEL CONSTRUCTION MANUAL" AMERICAN INSTITUTE OF STEEL CONSTRUCTION, AISI: "COLD FORM STEEL DESIGN MANUAL", AMERICAN IRON AND STEEL INSTITUTE (1996 EDITION), ASTM A792-83-A250 (PAINTED) ASTM E 1514-93; "STANDARD SPECIFICATION FOR STRUCTURAL STANDING SEAM STEEL PANEL SYSTEMS", AMERICAN SOCIETY FOR TESTING AND MATERIALS, UL580: "TESTS FOR UPLIFT RESISTANCE OF ROOF ASSEMBLIES", UNDERWRITERS LABORATORIES, INC., UL2218: "TEST STANDARD FOR IMPACT RESISTANCE", UNDERWRITERS LABORATORIES, INC., ICBO: EVALUATION REPORT NO. ER-5409, ICBO EVALUATION SERVICE, INC., ASTM E 1592-95; "STANDARD TEST FOR STRUCTURAL PERFORMANCE OF SHEETING METAL ROOF AND SIDING SYSTEMS BY UNIFORM STATIC AIR PRESSURE DIFFERENCE", AMERICAN SOCIETY FOR TESTING AND MATERIALS, ASTM E 1680-95; "STANDARD TEST METHOD FOR RATE OF AIR LEAKAGE THROUGH EXTERIOR METAL ROOF PANEL SYSTEMS", AMERICAN SOCIETY FOR TESTING AND MATERIALS, ASTM E 1646-95; "STANDARD TEST METHOD FOR WATER PENETRATION OF EXTERIOR METAL ROOF PANEL SYSTEMS BY UNIFORM STATIC AIR PRESSURE DIFFERENCE", AMERICAN SOCIETY FOR TESTING AND MATERIALS.
- 07 41 15** EXTERIOR WALL PANELS & SYSTEMS: PROVIDE LAMINATED PANELS AND ATTACHMENT SYSTEMS FOR USE AS EXTERIOR CLADDING. PANELS EXPOSED FINISHES SHALL PERFORM ACCORDING TO AAMA 2605-98; EXPOSED ANODIZED ALUMINUM ACCORDING TO AAMA 611-98. PANEL COMPOSITE ASSEMBLY SHALL CONFORM TO ASTM E84, FLAME SPREAD RESISTANCE, CLASS A. PANEL BOARD INTEGRITY SHALL HAVE A MINIMUM PEEL STRENGTH OF 34.5 IN-LBS/IN WHEN TESTED ACCORDING TO ASTM D1781 DESIGN WALL SYSTEM TO WITHSTAND A POSITIVE AND NEGATIVE WINDLOAD PRESSURE ACTING INWARD AND OUTWARD NORMAL TO THE PLANE OF THE WALL TO MEET THE REQUIREMENTS OF THE LATEST ADOPTED LOCAL BUILDING CODE. MAKE ADEQUATE PROVISIONS IN THE WALL SYSTEM FOR THERMAL EXPANSION AND CONTRACTION OF THE COMPONENT PARTS AND FASTENING OF THE SYSTEM TO PREVENT HARMFUL DAMAGE CAUSED BY BUCKLING, OPENING OF JOINTS, CONTRACTION AND EXPANSION DUE TO ACCUMULATION OF DEAD LOADS AND VARIATIONS OF LIVE LOADS. DESIGN WALL SYSTEM TO BE SEALED AT ALL JOINTS, INTERSECTIONS AND CUTOUTS TO PREVENT MOISTURE INTRUSION OF ANY TYPE.

- 07 62 00** SHEET METAL FLASHING AND TRIM: PROVIDE FLASHING AND SHEET METAL WORK AS NECESSARY TO COMPLETE ROOFING. PARAPET INSTALLATION AND PROVIDE WATER-TIGHT FINISH. MEET ALL REQUIREMENTS. PROVIDE PREPAINTED ALUMINUM SHEETS, ASTM B 209, ALLOY 3003, TEMPER H14 AND H34, 0.032" THICK, PRIMED AND FINISHED ONE SIDE WITH KYNAR FINISH TO MATCH ROOF (PROVIDE TO MATCH STUCCO FOR PARAPET CAP). PROVIDE FASTENERS, SOLDER, ROOFING CEMENT, MASTIC, OTHER COATING, UNDERLAYMENT, AND METAL ACCESSORIES AS INDICATED TO PROVIDE COMPLETE WATERTIGHT INSTALLATION. FABRICATE CAPS, FLASHING, TRIM, AND OTHER EXPOSED SHEET METAL FROM PRE-PAINTED GALVALUME OR SHEETS. FABRICATE COUNTER FLASHING, AND OTHER SHEET WORK NOT EXPOSED TO VIEW FROM FINISHED GALVALUME, FABRICATE FLASHING AT DRAINS, VENTS AND WHERE REQUIRED TO CONFORM TO CONTOUR OF ROOFING COMPONENTS AND ACCESSORIES FROM LEAD. FABRICATE FOR WATERPROOF AND WEATHER-RESISTANT PERFORMANCE, WITH EXPANSION PROVISIONS FOR RUNNING WORK, SUFFICIENT TO PERMANENTLY PREVENT LEAKAGE, DAMAGE OR DETERIORATION OF THE WORK. FORM WORK TO FIT SUBSTRATES AND WITHOUT EXCESSIVE OIL-CANNING, BUCKLING AND TOOL MARKS. FORM TRUE AND LEVEL, WITH FORMED HEIMS AT EDGES. FABRICATE NONMOVING SEAMS IN SHEET METAL WITH FLAT-LOCK SEAMS. FORM ALUMINUM SEAMS WITH EPOXY, RIVET JOINTS FOR ADDITIONAL STRENGTH WHERE REQUIRED. FOR METALS OTHER THAN ALUMINUM, FORM SEAMS AND SOLDER. SEPARATE DISSIMILAR METALS FROM EACH OTHER BY PAINTING EACH METAL SURFACE WITH HEAVY APPLICATION OF BITUMASTIC COATING. INSTALL IN COMPLIANCE WITH SMACNA, AND IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. ANCHOR SECURELY, WITH PROVISIONS OR THERMAL EXPANSION, WITH SEAMS THAT ARE PERMANENTLY WATERPROOF. INSTALL SLIP SHEET OF POLYETHYLENE AS NEEDED. SEAL EDGES OF METAL FLASHINGS WITH WATERTIGHT BED OF ROOFING CEMENT. BED FLANGES OF WORK IN THICK COAT OF BITUMINOUS ROOFING CEMENT WHERE REQUIRED FOR WATERPROOF. PERFORMANCE. SECURE EDGES OF FLASHING TO OTHER WORK WITH ANGLES AND BARS AND SEAL. CLEAN-UP AT COMPLETION OF WORK. REMOVE ALL EXCESS MATERIALS AND RUBBISH FROM SURFACES AND WORK AREA.

- 07 72 00** ROOF ACCESSORIES: PROVIDE ROOF CURBS, EQUIPMENT SUPPORTS, AND THRU-WALL OVERFLOW SCUPPERS. COMPLY WITH SMACNA: "ARCHITECTURAL SHEET METAL MANUAL" DETAILS FOR FABRICATION, SEALANTS AND FLASHING TO COORDINATE WITH TYPE OF ROOFING AND APPLICATION INDICATED.

- 07 92 00** JOINT SEALANTS: AT DOOR FRAMES, FLOORING JOINTS, NON-RATED WALL PENETRATIONS, ETC, COMPLETELY CLOSE JOINTS WITH SEALANTS. PROVIDE JOINT SEALANTS THAT ARE COMPATIBLE WITH ALL MATERIALS TO BE FILLED. PROVIDE SEALANT TO MATCH COLOR. SEALANTS MUST COMPLY WITH ASTM C 920, USE THE FOLLOWING OR APPROVED EQUAL. SONNEBORN "SONOLASTIC NP2 (TYPE M, NON-SAG AT EXTERIOR AND INTERIOR JOINTS WITH ALUMINUM OR METAL), SONNEBORN "SL-1" (TYPE S, POURABLE), SONNEBORN "SL-2" (TYPE M, POURABLE), DOW CORNING "790" (TYPE S, NON-SAG), DOW CORNING "786" (TYPE S, NON-SAG, MILDEW RESISTANT AT WET WORK INCLUDING TILE, SINKS, PLUMBING FIXTURES); ACRYLIC EMULSION SEALANTS (USED AT ALL INTERIOR JOINTS EXCLUDING METAL, ALUMINUM, TILE, AND WET WORK) MUST COMPLY WITH ASTM C 834 SONNEBORN "SONOLAC" OR APPROVED EQUAL. CLEAN, ETC., ROUGHEN, PRIME, SEAL, TAPE, USE SEALANT AND BACKER ROD ON OTHER MISCELLANEOUS MATERIALS, CURE, AND CLEAN AS RECOMMENDED BY MANUFACTURER. INSTALL SEALANT AT DEPTHS RECOMMENDED BY MANUFACTURER.



ARCHITECT OF RECORD:
NOT FOR CONSTRUCTION

REVISION		
NO.	ISSUE	DATE

CONSULTANT:

UNION BLOCK BUILDING
124 W WALNUT STR
ROGERS, ARKANSAS 72756

DRAWN BY:
GON
CHECKED BY:
GON

PROJECT #:
25-042

DATE:
01/30/2026</

DIVISION 08 - DOORS AND WINDOWS

- 08 11 00** STEEL DOORS AND FRAMES: REFER TO DOOR AND FRAME SCHEDULE. PROVIDE DOORS AND FRAMES COMPLYING WITH ANSI A250, INCLUDING A250.8, A250.4, A250.6, A250, 10 AND A 115. COMPLY WITH REQUIREMENTS OF SDI. PROVIDE FIRE-RATED UNITS COMPLYING WITH NFPA 80 "STANDARD FOR FIRE DOORS AND WINDOWS", AS UNITS TESTED, LISTED, AND LABELED IN ACCORDANCE WITH ASTM E152 "STANDARD METHODS OF FIRE TESTS OF DOOR ASSEMBLIES". DOORS SHALL BE 18 GAGE, ASTM A366 COLD ROLLED, STRETCHER LEVELED, FREE OF SCALE, PITTING, WARPING OR OTHER SURFACE DEFECTS, INSULATED OR SOLID CORE. PROVIDE ZINC COATED FACE SHEETS AT EXTERIOR DOORS. DOOR FRAMES SHALL BE 167 GAGE INTERIOR AND 14 GAGE EXTERIOR ASTM A569 HOT ROLLED WITH STEEL TOP CHANNEL. PROVIDE FRAMES WITH ZINC COATING AT EXTERIOR. FACTORY PRIME ALL DOORS. PROVIDE ANCHORS SUITABLE FOR WALL INSTALLATION.
- 08 41 10** ALUMINUM-FRAMED ENTRANCES AND STOREFRONTS: PROVIDE ALUMINUM STOREFRONTS AND FRAMES BY SAME MANUFACTURER AS INDICATED IN CONSTRUCTION DRAWINGS. PROVIDE SHOP DRAWINGS WITH DETAILS FOR ARCHITECT'S REVIEW. EXTERIOR DOOR FRAME UNITS SHALL BE FABRICATED TO WITHSTAND 20 LBS PER SQ. FT. ON FRAMES, DOORS, AND GLASS ACTING INWARD AND OUTWARD. SET UNITS PLUMB, LEVEL AND TRUE WITH NO WARPING OR RACKING. ANCHOR SECURELY IN PLACE. SECURE WITH NON-STAINING, NON-CORROSIVE SHIMS AND ANCHORS, FASTENERS, FILLERS, ETC. PROVIDE SUB-FRAMES AT BOTTOM OF WINDOW AND MANUFACTURER'S STANDARD FLASHING. PROTECT AREAS WHERE ALUMINUM MAY BE IN CONTACT WITH STEEL OR OTHER DISSIMILAR MATERIALS WITH BITUMINOUS PAINT. INSTALL ACCORDING TO MANUFACTURER'S RECOMMENDATIONS TO ENSURE SYSTEM WEEPS OR EXPELS WATER AS DESIGNED. PROVIDE AND INSTALL MEDIUM STILE, SINGLE ACTING DOORS IN SIZES INDICATED WITH ALL HARDWARE EXCEPT CYLINDERS. PROVIDE INTERMEDIATE HINGE. HARDWARE TO INCLUDE ADAMS RITE SERIES 8600 PANIC DEVICES, PIVOTS, MANUFACTURER'S STANDARD THRESHOLD, NORTON 8501 BF CLOSER, MANUFACTURER'S STANDARD WEATHER-STRIPPING.
- 08 41 10.1** KAWNEER TRIFAB VG 451T, CENTER PLANE 2" X 4 ½", THERMALLY BROKEN SYSTEM FOR 1" INSULATING UNITS, CLEAR ANNOIDIZED, CLASS 2 OR APPROVED EQUAL OR VISTAWALL MULTIPLANE 3000, CENTERPLANE 2" X 4 ½", THERMALLY BROKEN SYSTEM FOR 1" INSULATING UNITS, CLEAR ANNOIDIZED, CLASS 2 OR APPROVED EQUAL.
- 08 71 00** DOOR HARDWARE: PROVIDE HARDWARE AS APPROPRIATE TO EACH DOOR FROM MANUFACTURERS AS FOLLOWS: FALCON, CYLINDERS AND LOCKS, LCN 1461 DOOR CLOSERS, YALE 7100 F X PB 626F EXIT DEVICES, HAGER BUTTSBB1279 4.5 X 4.5 AND 282 D X12 FLUSHBOLTS. PROVIDE HAGER KICK PLATE, STOPS, AND SILENCERS. PROVIDE HAGER 30S X 4 X 16 PUSH PLATES AND 3J X 10 PULLS FOR RESTROOM DOORS. PROVIDE HAGER STOPS 236W OR 242 F AS REQUIRED.
- 08 80 00** GLAZING: PROVIDE 1" INSULATED GLAZING UNITS WITH ½" THICK CLEAR FLOAT GLASS, ½" AIRSPACE, AND ¼" GLASS WITH HARDCOAT LOW-E, COLOR TO BE SELECTED BY ARCHITECT. PROVIDE TEMPERED INNER AND OUTER LITES AS REQUIRED BY CODE. PROVIDE INSULATED UNITS BY SAME MANUFACTURER AND INSTALLED IN SAME DIRECTION. PROVIDE AND INSTALL WITH APPROPRIATE GLAZING MATERIALS AS RECOMMENDED BY MANUFACTURER. CURE AS RECOMMENDED BY MANUFACTURER.

DIVISION 09 - FINISHES

- 09 11 11** NON-LOAD-BEARING STEEL FRAMING: FRAMING MEMBERS, GENERAL: COMPLY WITH ASTM C 754 FOR CONDITIONS INDICATED. STEEL SHEET COMPONENTS: COMPLY WITH ASTM C 645 REQUIREMENTS FOR METAL, UNLESS OTHERWISE INDICATED. PROVIDE ALL DEFLECTION TRACKS, STUDS, ETC IN GAUGE AS INDICATED IN DRAWINGS. PROVIDE ALL FASTENERS FOR METAL FRAMING: OF TYPE, MATERIAL, SIZE, CORROSION RESISTANCE, HOLDING POWER, AND OTHER PROPERTIES: REQUIRED TO FASTEN STEEL MEMBERS TO SUBSTRATES. WHERE STUDS ARE INSTALLED DIRECTLY AGAINST EXTERIOR MASONRY WALLS OR DISSIMILAR METALS, INSTALL ISOLATION STRIP. INSTALL TRACKS (RUNNERS) AT FLOORS AND OVERHEAD SUPPORTS. EXTEND FRAMING FULL HEIGHT TO STRUCTURAL SUPPORTS OR SUBSTRATES ABOVE. SUSPENDED CEILINGS, EXCEPT WHERE PARTITIONS ARE INDICATED TO TERMINATE AT SUSPENDED CEILINGS. CONTINUE FRAMING AROUND DUCTS PENETRATING PARTITIONS ABOVE CEILING. SLIP-TYPE HEAD JOINTS: WHERE FRAMING EXTENDS TO OVERHEAD STRUCTURAL SUPPORTS, INSTALL TO PRODUCE JOINTS AT TOPS OF FRAMING SYSTEMS THAT PREVENT AXIAL LOADING OF FINISHED ASSEMBLIES. DOOR OPENINGS: SCREW VERTICAL STUDS AT JAMBS TO JAMB ANCHOR CLIPS ON DOOR FRAMES; INSTALL RUNNER TRACK SECTION (FOR CRIPPLE STUDS) AT HEAD AND SECURE TO JAMB STUDS. INSTALL TWO STUDS AT EACH JAMB, UNLESS OTHERWISE INDICATED. INSTALL CRIPPLE STUDS AT HEAD ADJACENT TO EACH JAMB STUD, WITH A MINIMUM 1/2-INCH (12.7-MM) CLEARANCE FROM JAMB STUD TO ALLOW FOR INSTALLATION OF CONTROL JOINT IN FINISHED ASSEMBLY. EXTEND JAMB STUDS THROUGH SUSPENDED CEILINGS AND ATTACH TO UNDERSIDE OF OVERHEAD STRUCTURE. INSTALLATION TOLERANCE: INSTALL EACH FRAMING MEMBER SO FASTENING SURFACES VARY NOT MORE THAN 1/8 INCH (3 MM) FROM THE PLANE FORMED BY FACES OF ADJACENT FRAMING.
- 09 25 00** GYPSUM BOARD PROVIDE ALL LABOR, MATERIALS, AND ACCESSORIES NECESSARY FOR COMPLETE INSTALLATION. 5/8" TAPERED EDGE REGULAR AMERICAN GYPSUM. TEMPLE-INLAND, USG OR APPROVED EQUAL. PROVIDE SAG RESISTANT AT CEILINGS AND MOISTURE RESISTANT IN RESTROOMS AND WET AREAS. INSTALL PER MANUFACTURER'S RECOMMENDATIONS WITH CONTROL JOINTS AND EXPANSION JOINTS AS SHOWN IN DRAWINGS. PROVIDE LEVEL 4 FINISH.
- 09 51 20** ACOUSTICAL CEILINGS: PROVIDE ALL MATERIALS LABOR AND ACCESSORIES TO COMPLETE INSTALLATION. LAY-IN PANEL, RADAR CLIMA PLUS, USG CEILINGS, 24" x 48" x 5/8" WHITE, SQUARE EDGE OR APPROVED EQUAL. PROVIDE GRID TO MATCH EXISTING USED THROUGHOUT THE REST OF THE BUILDING. FIELD VERIFY TYPE. INSTALLATION IN COMPLIANCE WITH ASTM C 636 AND IN ACCORDANCE WITH THE ARCHITECTS REFLECTED CEILING PLAN. INSTALL ACCORDING TO MANUFACTURER'S WRITTEN RECOMMENDATIONS.
- 09 91 00** PAINTING: PROVIDE PAINTING AND FINISHING OF INTERIOR AND EXTERIOR ITEMS AND SURFACES AS NOTED ON DRAWINGS. PROVIDE FIELD PAINTING OF HANGER, EXPOSED STEEL AND IRON WORK, PRIMED METAL SURFACES EXPOSED TO VIEW, HOLLOW METAL DOORFRAMES, GYPSUM BOARD WALL SURFACES, ETC. PREPARE SURFACES PRIOR TO PAINTING. APPLY ACCORDING TO MANUFACTURER'S WRITTEN INSTRUCTIONS. USE SHERWIN WILLIAMS OR APPROVED EQUAL. PRIME SURFACES WITH MANUFACTURER'S RECOMMENDED PRIMER AND APPLY MANUFACTURER'S RECOMMENDED PAINT IN MULTIPLE COATS AS RECOMMENDED BY MANUFACTURER. REFER TO ARCHITECTURAL DRAWINGS FOR COLOR SELECTIONS OR PROVIDE SAMPLE SUBMITTAL FOR ARCHITECT'S SELECTION. TINT PRIMER AS NEEDED.
- 09 91 10** SCHEDULE OF PAINTS: PROVIDE THE FOLLOWING
- 09 91 11** HOLLOW METAL FRAMES AND DOORS- 1ST COAT- PROCRYL UNISASL PRIMER B66-310 2ND AND 3RD COATS- A-100 EXTERIOR LATEX SATIN A82 SERIES
- 09 91 12** SHOP PRIMED INTERIOR AND EXTERIOR FERROUS METAL- 1ST COAT: PROCRYL PRIMER B666-310, 2ND AND 3RD COATS: A-100 EXTERIOR LATEX SATIN A8 SERIES
- 09 91 13** INTERIOR AND EXTERIOR GALVANIZED METAL- PRETREATMENT: CHEMICAL WASH, 1ST COAT PROCRYL UNIVERSAL PRIMER, B66-310. 2ND AND 3RD COATS: A-100 EXTERIOR LATEX SATIN A82 SERIES

DIVISION 10 - SPECIALTIES

- 10 43 10** SIGNAGE: EXTERIOR AND INTERIOR SIGNS, LETTERS, AND PLAQUES ATTACHED TO BUILDING. REQUIRED ADA TOILET SIGNAGE- PHOTO POLYMER, STANDARD BRAILLE WITH RAISED LETTERING, 6" X9", SILICONE ADHESIVE VINYL TAPE MOUNT, COLOR AS SELECTED BY ARCHITECT FROM MANUFACTURER'S STANDARD COLORS.
- 10 43 11** REQUIRED ADA SIGNAGE- PHOTO POLYMER, STANDARD BRAILLE WITH RAISED LETTERING, 3.5" X8", SILICONE ADHESIVE VINYL TAPE MOUNT, COLOR AS SELECTED BY ARCHITECT FROM MANUFACTURER'S STANDARD COLORS.
- 10 52 30** FIRE EXTINGUISHERS AND CABINETS: PROVIDE FIRE EXTINGUISHERS AND CABINETS OR MOUNTING BRACKETS AS INDICATED ON DRAWINGS. COMPLY WITH NFPA "PORTABLE FIRE EXTINGUISHERS" FIRE EXTINGUISHERS SHALL BE LISTED AND LABELED FOR TYPE AND RATING. MOUNT AT HEIGHTS ACCEPTABLE TO CODE OFFICIAL.
- 10 52 31** CABINETS: J.L. INDUSTRIES MODEL # 1037-3" RETURN TRIM, STAINLESS STEEL CABINET FOR SEMI-RECESSED INSTALLATION, FRAMELESS ACRYLIC DOOR, COLD-ROLLED STEEL TUB WITH WHITE POWDER COAT W/ COSMIC EXTINGUISHER.

DIVISION 11 - EQUIPMENT

- 11 13 13** MECHANICAL DOCK LEVELER. BASIS OF DESIGN: RITEHITE MODEL RHE3 72" OR APPROVED EQUAL. PROVIDE SHOP DRAWINGS: SHOWING OVERALL DIMENSIONS (WIDTH, HEIGHT) SUPPORTING CONSTRUCTION REQUIREMENTS AND EQUIPMENT STRUCTURAL ATTACHMENT, OPERATING RANGE AND REQUIRED CLEARANCES. PROVIDE THROUGH A SOLE SOURCE FOR DESIGN, ENGINEERING, MANUFACTURING AND WARRANTY CLAIMS HANDLING FROM A COMPANY SPECIALIZING IN MANUFACTURING PRODUCTS SPECIFIED WITH A MINIMUM 20 YEARS EXPERIENCE. INSTALLER SHALL BE TRAINED, CERTIFIED AND APPROVED BY MANUFACTURER, WITH DOCUMENTED EXPERIENCE ON SIMILAR PROJECTS. COORDINATE REQUIREMENT FOR MOCK UP WITH GC. IF REQUIRED BY GC. PROVIDE A MOCK-UP FOR EVALUATION OF SURFACE PREPARATION TECHNIQUES AND APPLICATION WORKMANSHIP. FINISH AREAS DESIGNATED BY GC. DO NOT PROCEED WITH REMAINING WORK UNTIL WORKMANSHIP AND APPEARANCE ARE APPROVED BY ARCHITECT. REWORK MOCK-UP AREA AS REQUIRED TO PRODUCE ACCEPTABLE WORK. MAINTAIN ENVIRONMENTAL CONDITIONS (TEMPERATURE, HUMIDITY, AND VENTILATION) WITHIN LIMITS RECOMMENDED BY MANUFACTURER FOR OPTIMUM RESULTS. DO NOT INSTALL PRODUCTS UNDER ENVIRONMENTAL CONDITIONS OUTSIDE MANUFACTURER'S LIMITS. MOUNTING TYPE, CONFIGURATION AND HARDWARE: IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS FOR APPLICATION; AS SCHEDULED AND INDICATED ON DRAWINGS. RATED CAPACITY: INSTALLER SHALL EXAMINE THE OPENING AND CONDITIONS UNDER WHICH DOCK EQUIPMENT IS TO BE INSTALLED AND NOTIFY THE GC IN WRITING OF ANY CONDITIONS DETRIMENTAL TO THE PROPER AND TIMELY COMPLETION OF THE WORK. DO NOT PROCEED WITH THE WORK UNTIL UNSATISFACTORY CONDITIONS HAVE BEEN CORRECTED IN A MANNER ACCEPTABLE TO THE INSTALLER. DO NOT BEGIN INSTALLATION UNTIL OPENINGS HAVE BEEN PROPERLY PREPARED. IF PREPARATION IS THE RESPONSIBILITY OF ANOTHER INSTALLER, NOTIFY GC OF UNSATISFACTORY PREPARATION BEFORE PROCEEDING. CLEAN SURFACES THOROUGHLY PRIOR TO INSTALLATION. PREPARE SURFACES USING THE METHODS RECOMMENDED BY THE MANUFACTURER FOR ACHIEVING THE BEST RESULT FOR THE SUBSTRATE UNDER THE PROJECT CONDITIONS. INSTALL IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS, AND IN PROPER RELATIONSHIP WITH ADJACENT CONSTRUCTION. BEFORE ACCEPTANCE, A DEMONSTRATION SHALL BE CONDUCTED IN THE PRESENCE OF THE OWNER'S REPRESENTATIVE THAT ALL EQUIPMENT OPERATES PROPERLY IN EVERY ASPECT. CONDUCT A DETAILED USER/OPERATOR TRAINING SESSION AT TIME AND PLACE AGREED UPON BY OWNER'S REPRESENTATIVE. PROTECT INSTALLED PRODUCTS UNTIL COMPLETION OF PROJECT. TOUCH-UP, REPAIR OR REPLACE DAMAGED PRODUCTS BEFORE SUBSTANTIAL COMPLETION.

DIVISION 12 - FURNISHINGS

NOT USED



REVISION		
NO.	ISSUE	DATE



UNION BLOCK BUILDING

124 W WALNUT STR
ROGERS, ARKANSAS 72756

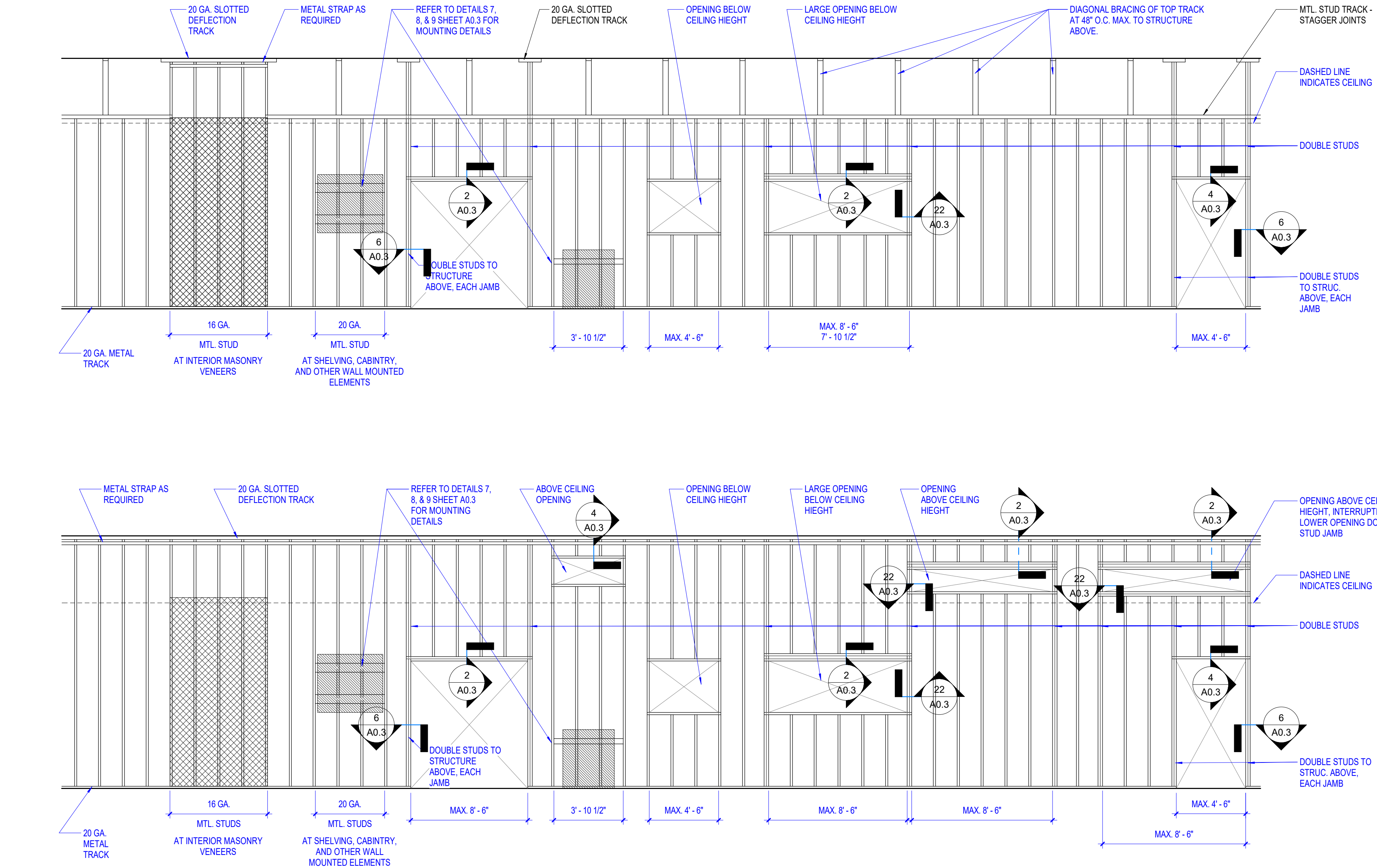
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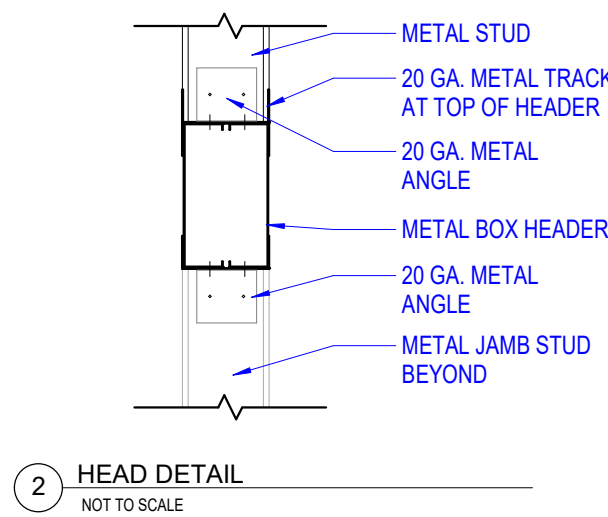
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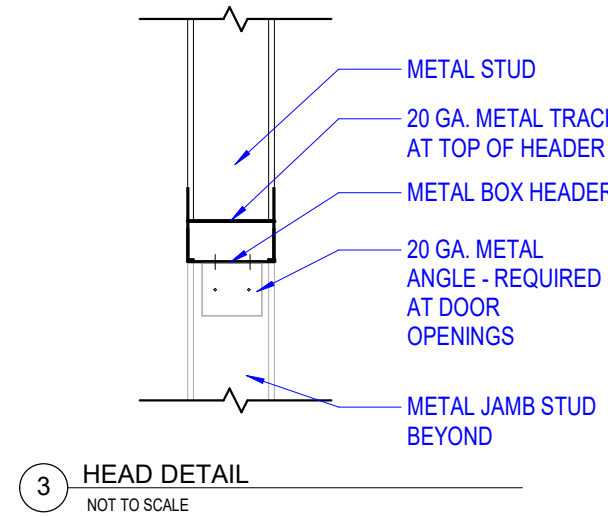
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BUILDING DETAILS



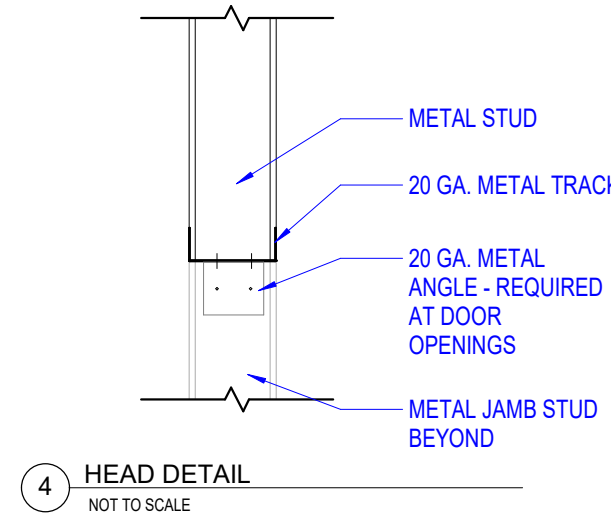
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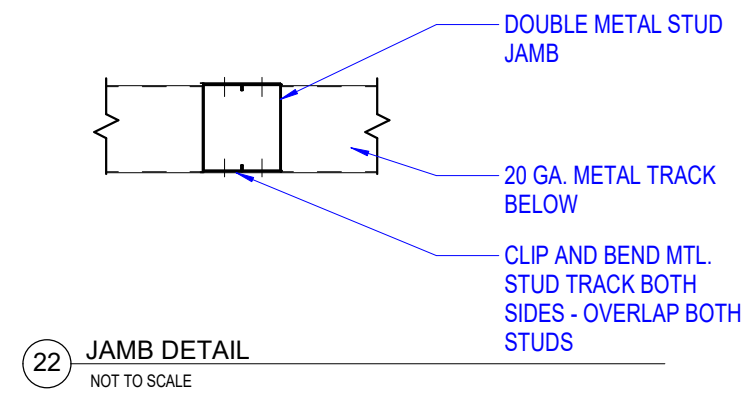
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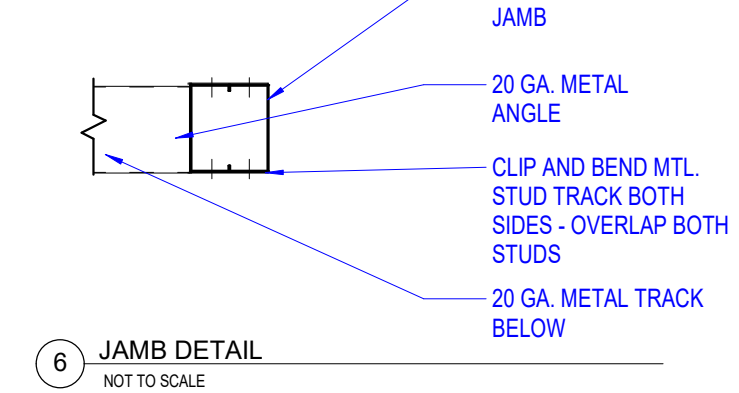
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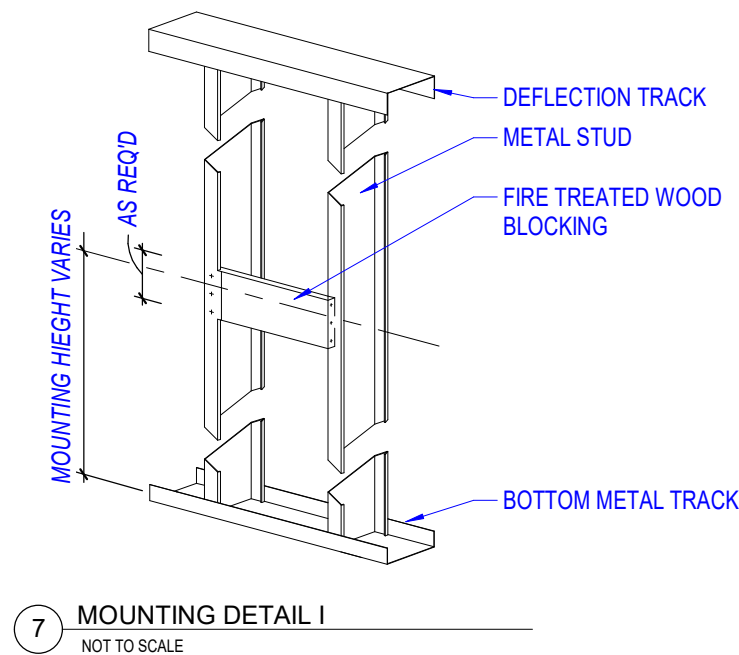
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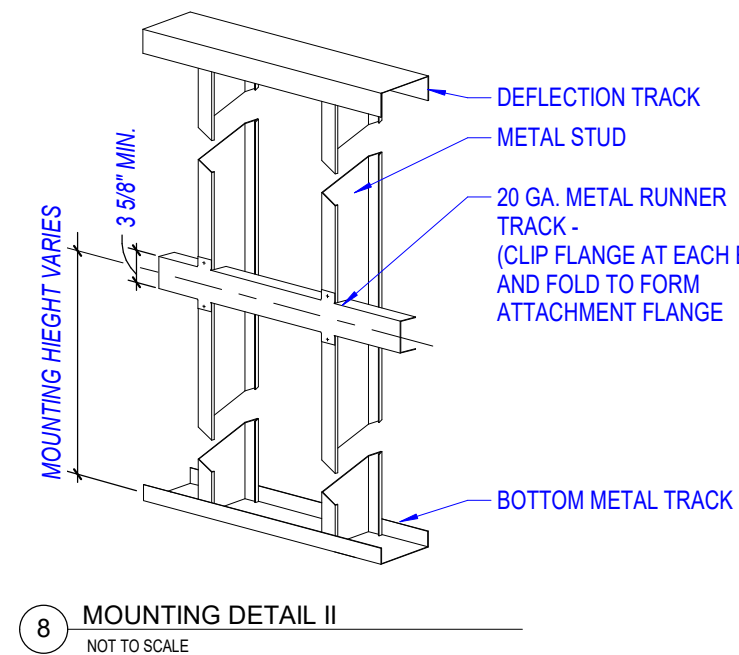
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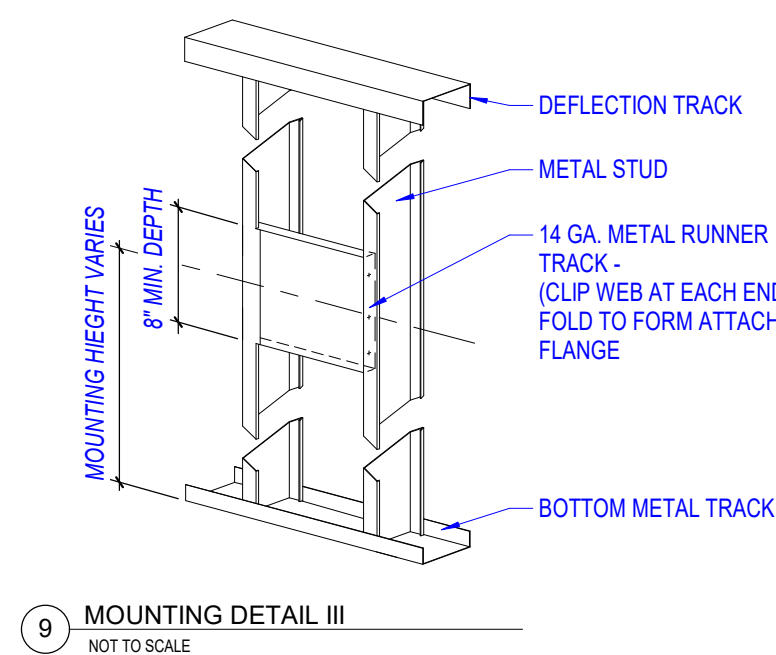
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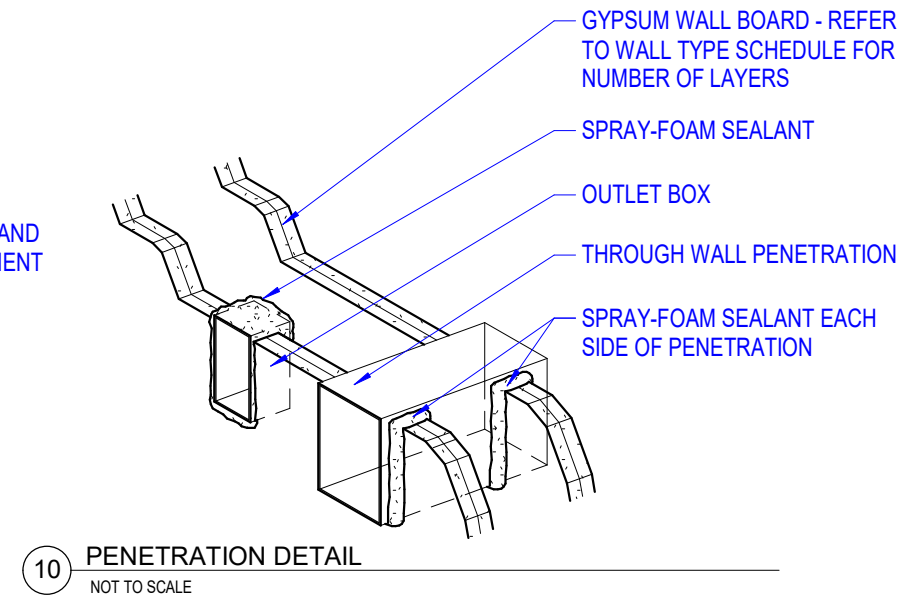
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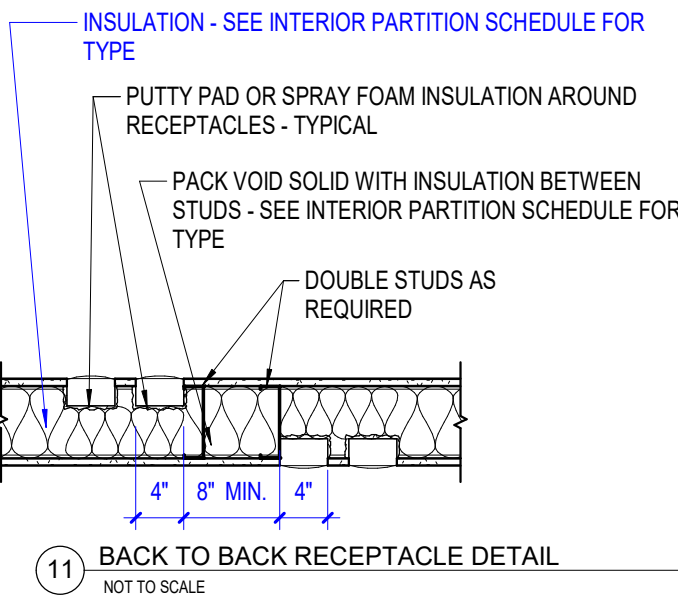
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NOT TO SCALE



9 MOUNTING DETAIL III
NOT TO SCALE



10 PENETRATION DETAIL
NOT TO SCALE



11 BACK TO BACK RECEPTACLE DETAIL
NOT TO SCALE

PARTITION TYPE NOTES

- NOTE: COORDINATE FIRE RATED WALLS WITH LS-0.1
- SEE FLOOR PLANS FOR TYPE NOTATION.
 - THESE TYPES INDICATE PRIMARY PARTITION TYPE. OVERLAID VENEERS, WAINSCOT, PLASTERS AND OTHER VARIANTS AND SPECIAL CONDITIONS ARE INDICATED ON THE PLANS AND DETAILS.
 - JOINTS AND PENETRATIONS AT ALL RATED PARTITIONS SHALL BE SEALED AND PROTECTED PER SPECIFICATIONS, U.L. TESTED ASSEMBLIES AND CODE REQUIREMENTS.
 - ALL WALLS W/ PLUMBING FIXTURES SHALL RECEIVE MOISTURE RESISTANT GYP. BOARD.
 - INTERIOR NON-STRUCTURAL PARTITIONS SHALL BE OF RECOMMENDED GAUGE AND INSTALLED PER THEIR RESPECTIVE METAL STUD MANUFACTURE'S LIMITING HEIGHT INFORMATION AND/OR BRACED AT MID-SPAN TO ACCOMMODATE A LATERAL LOAD OF 5 PSF WITH A DEFLECTION LIMIT OF L/360.
 - PROVIDE DEFLECTION/SLIP TRACK STRUCTURAL FRAMING MEMBER CONNECTIONS AS REQUIRED AND PER STANDARDS.

METAL STUD NOTES

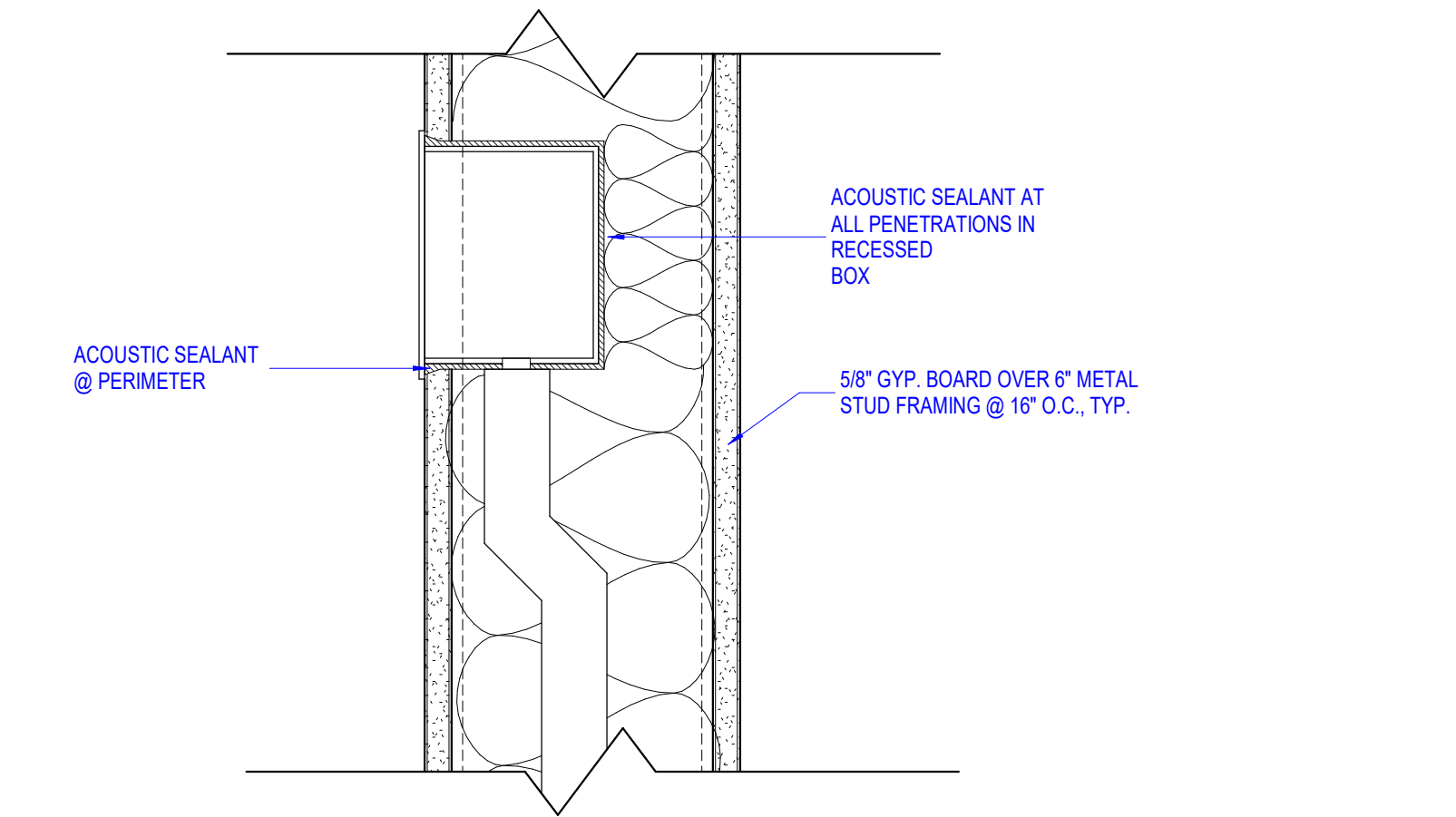
- REFER TO INTERIOR PARTITION SCHEDULE FOR SPECIFIC STUD FRAMING SIZES.
- ALL STUDS ARE SPACED AT 16" O.C. MAXIMUM UNLESS OTHERWISE NOTED.
- ALL STUDS ARE "C" STUDS WITH 1/4" MINIMUM FLANGE.
- PROVIDE TOP OF WALL DIAGONAL BRACING TO STRUCTURE ABOVE AT 48" O.C. AT ALL LOCATIONS WHERE STUDS ARE NOT ATTACHED TO STRUCTURE ABOVE.
- CUTTING OF DOUBLE STUDS AT SIDES OF OPENINGS FOR DUCTWORK OR OTHER MECHANICAL SYSTEMS IS NOT PERMITTED.
- PROJECTS IN SEISMIC ZONE REQUIRE MINIMUM 20 GAUGE STUDS - DETAILS TO BE MODIFIED AS REQUIRED
- REFER TO REFLECTED CEILING PLAN FOR ACTUAL CEILING HEIGHTS

METAL STUD FRAMING LEGEND

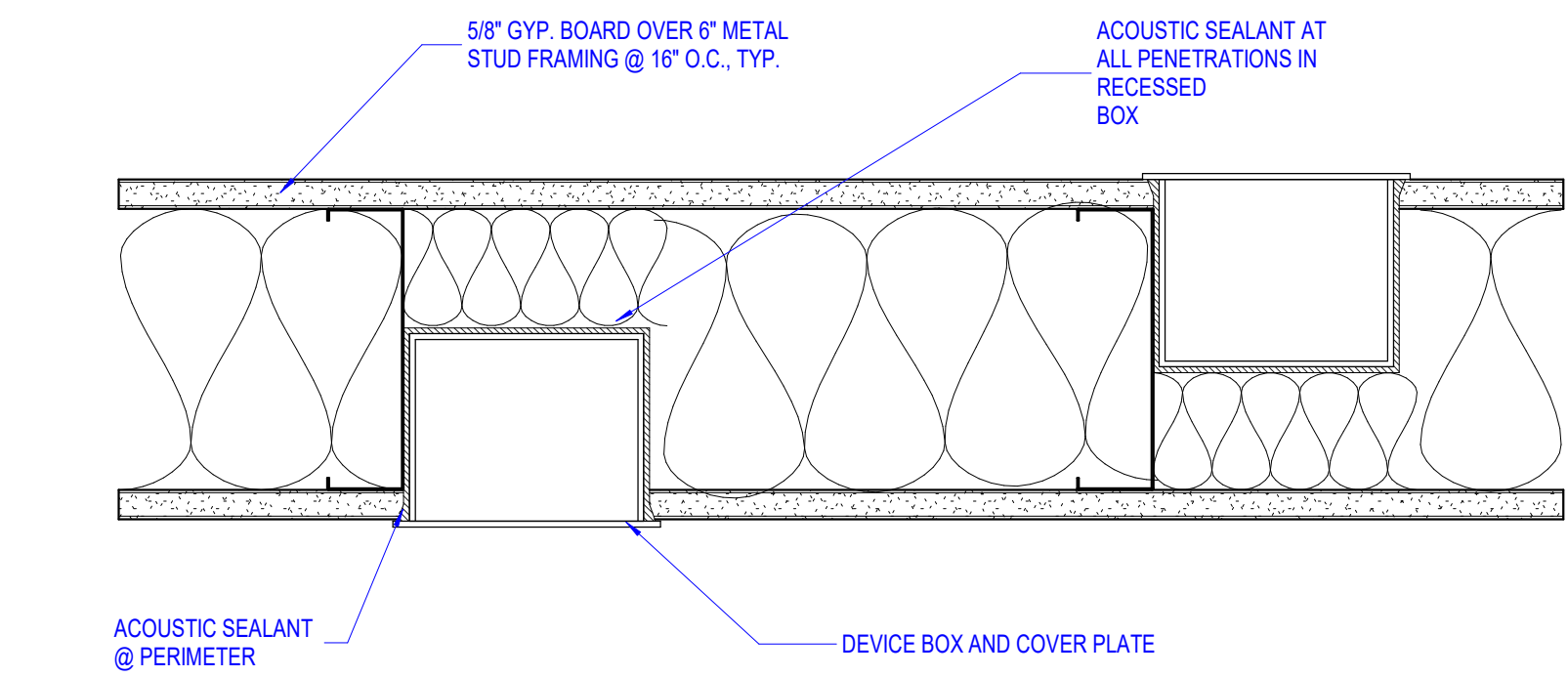
- INDICATES MASONRY VENEER
- INDICATES SHELVING, CABINTRY, AND OTHER WALL MOUNTED ELEMENTS REQUIRING BLOCKING

INTERIOR PARTITION LEGEND

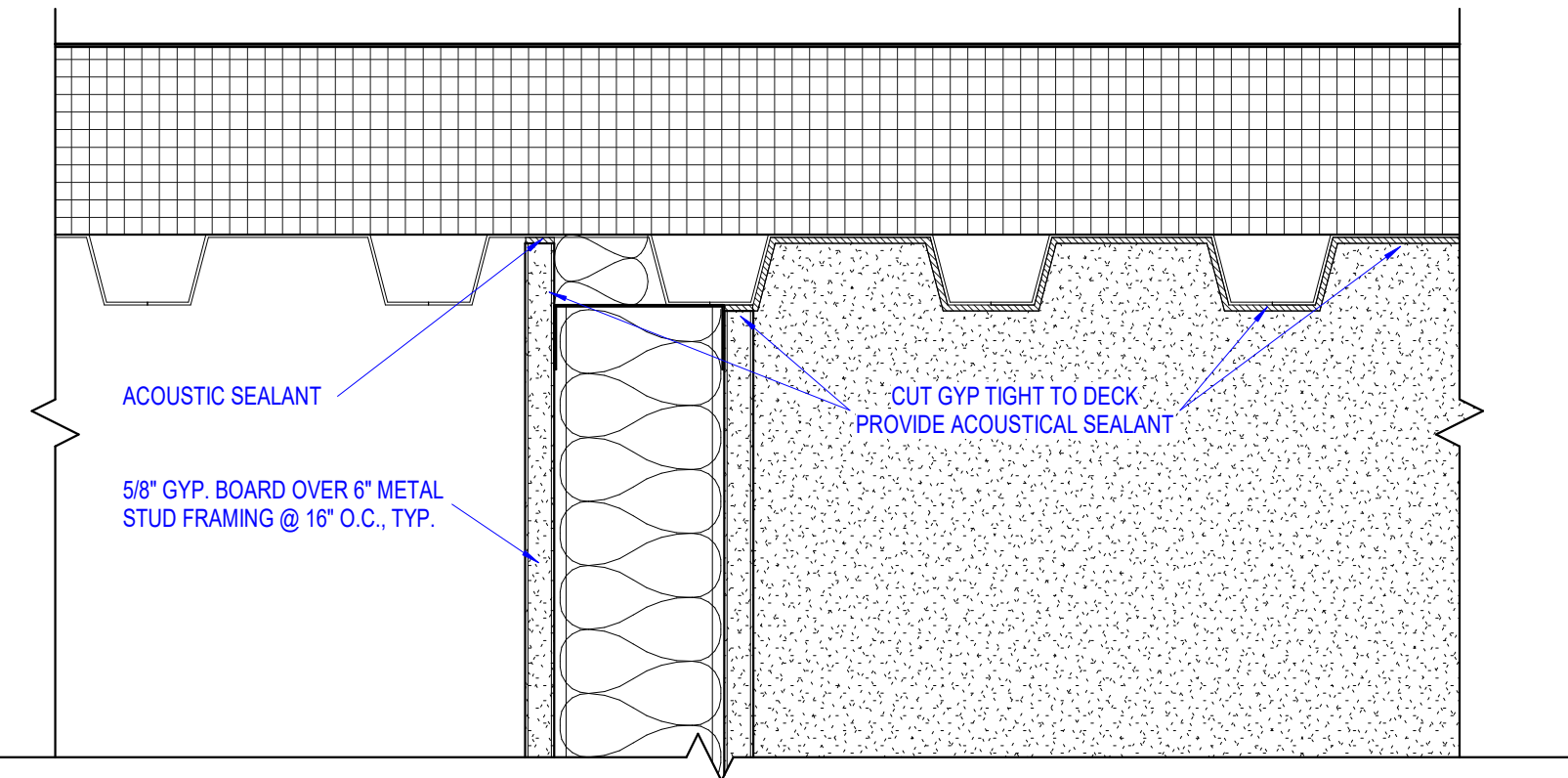
- WALL INSULATION (SEE PLANS)
- 1 HR FIRE RATING (SEE LS-01)**
1 HR TO RECEIVE (1) ONE LAYER TYPE "X" GPDW EACH SIDE. FIRE CAULK @ ALL OPENINGS AND PENETRATIONS
- 2 HR FIRE RATING (SEE LS-01)**
2 HR TO RECEIVE (2) TWO LAYERS TYPE "X" GPDW EACH SIDE. FIRE CAULK @ ALL OPENINGS AND PENETRATIONS



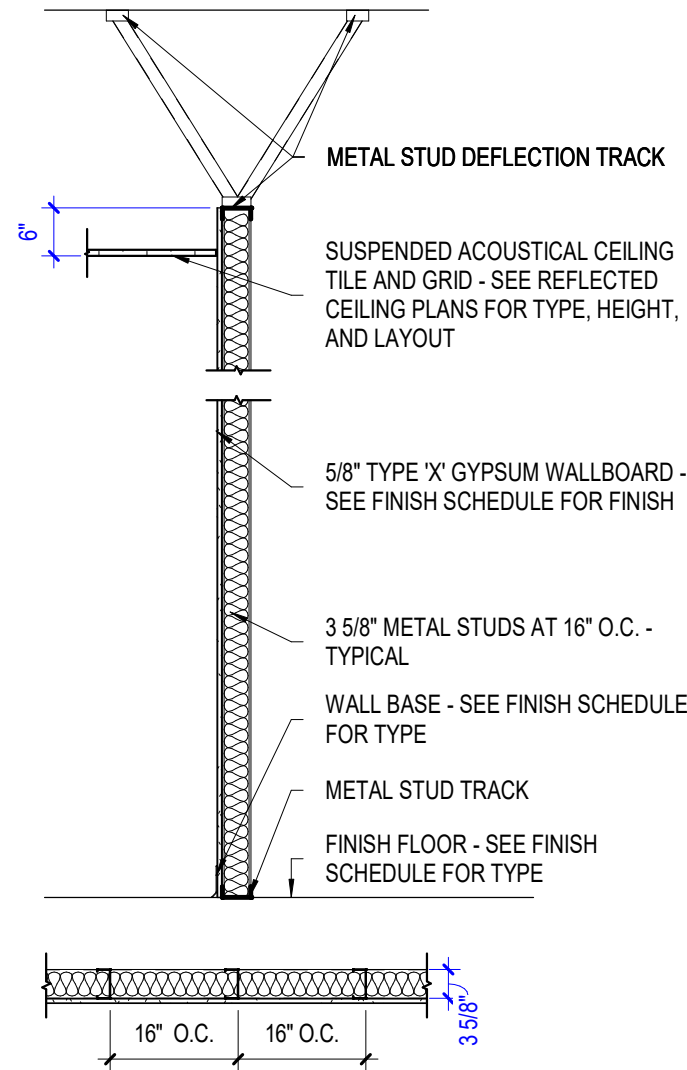
4 ACOUSTIC PARTITION PENETRATIONS SECTION DETAIL
3" = 1'-0"



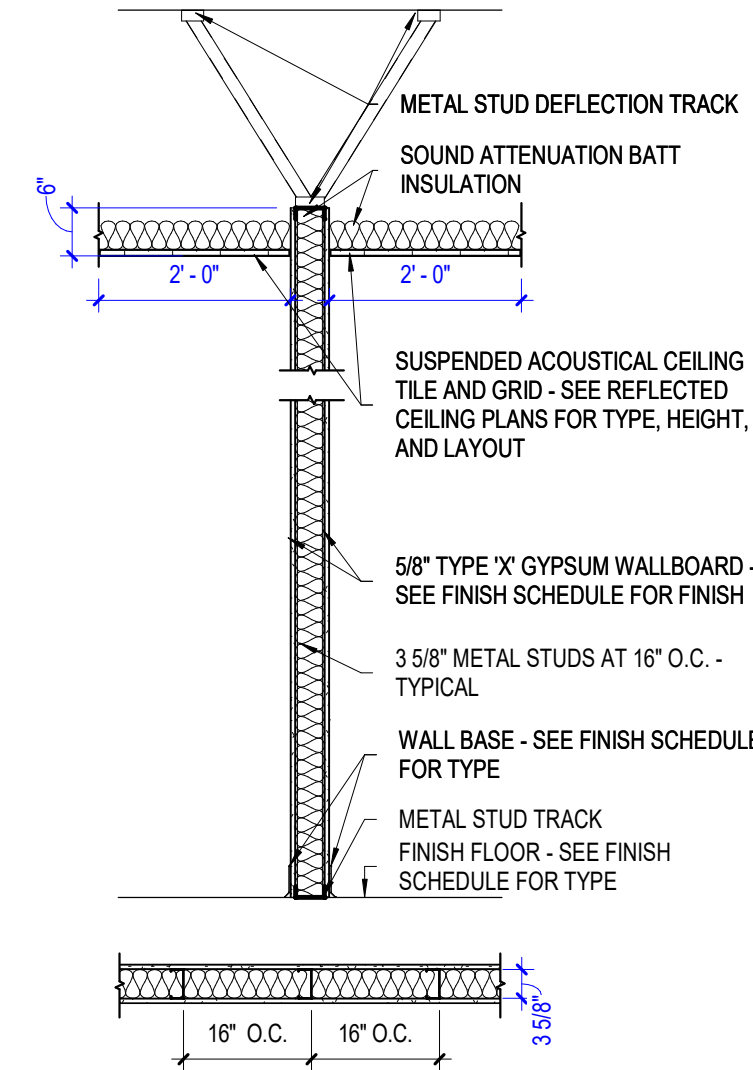
3 ACOUSTIC PARTITION PENETRATIONS PLAN DETAIL
3" = 1'-0"



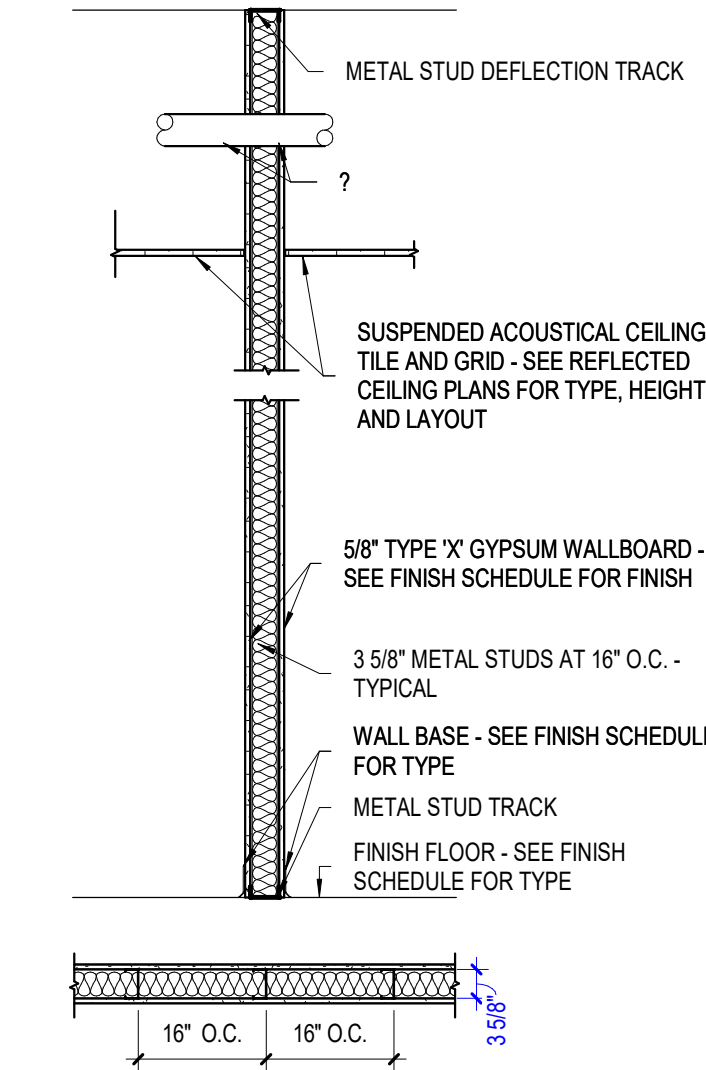
2 WALL CLOSURE TO DECK TYP.
3" = 1'-0"



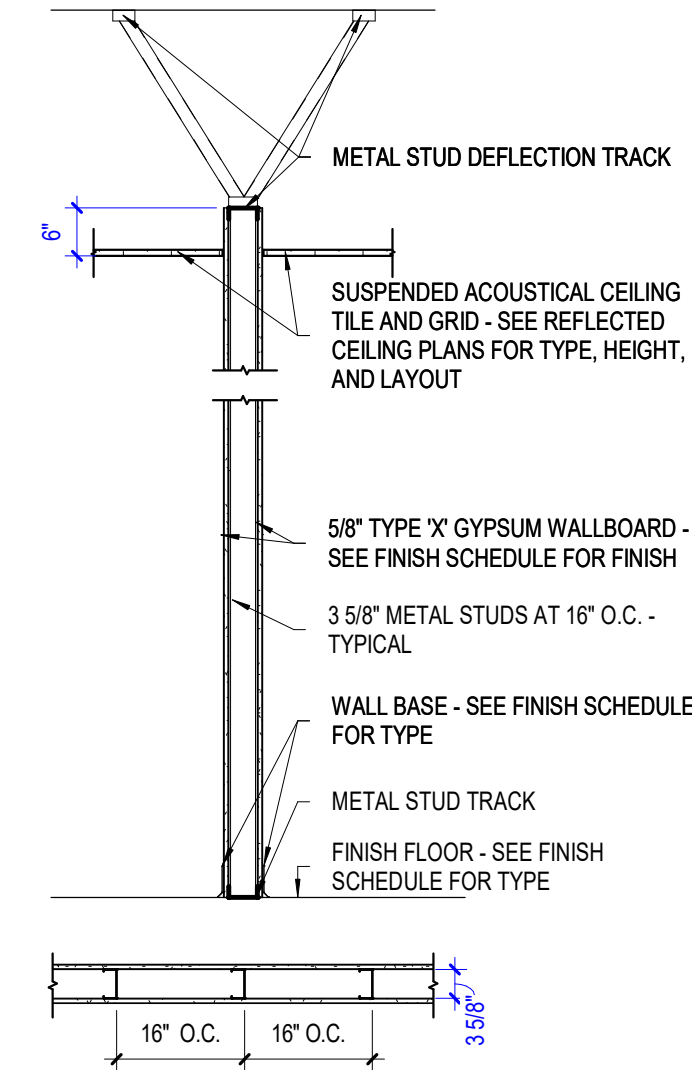
4D COLUMN FURR
5/8" TYPE 'X' GYPSUM WALL BOARD ONE SIDE 6"
ABOVE FINISH CEILING
3 5/8" METAL STUD
REF. FLOOR PLAN FOR SOUND ATTENUATION
BATT INSULATION LOCATIONS
SEE FINISH SCHEDULE FOR FINISHES



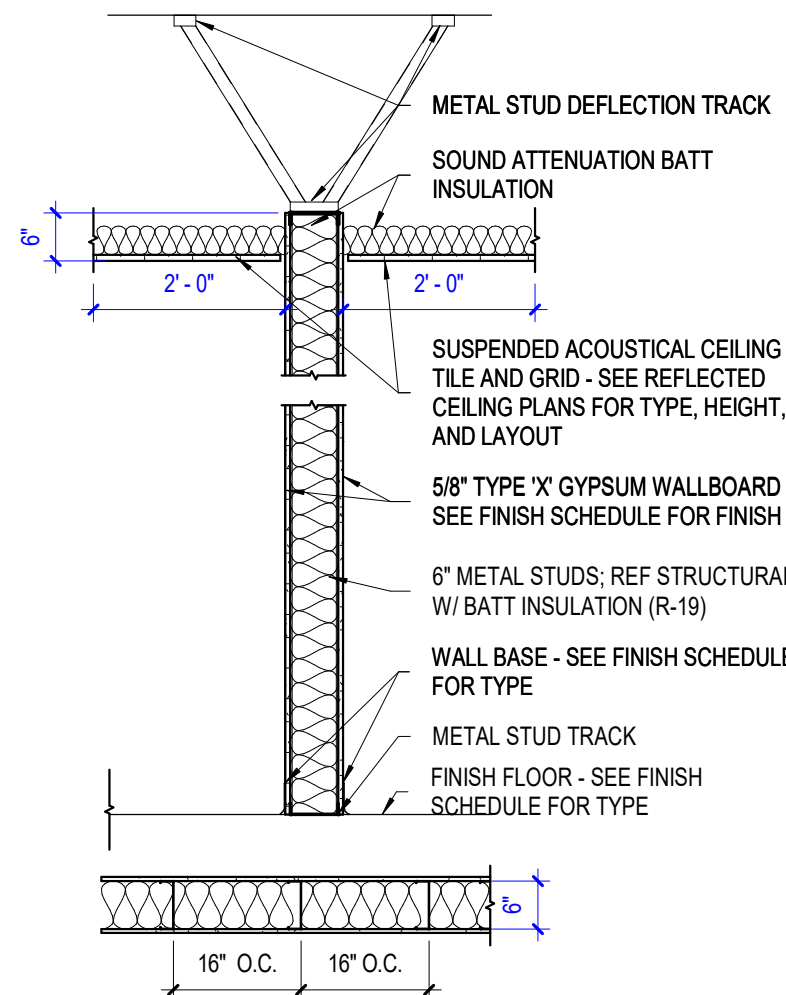
4C SOUND PARTITION
5/8" TYPE 'X' GYPSUM WALL BOARD EACH SIDE 6"
ABOVE FINISH CEILING
3 5/8" METAL STUD
SOUND ATTENUATION BATT IN STUDS & 2'-0" EACH
SEE FINISH SCHEDULE FOR FINISHES



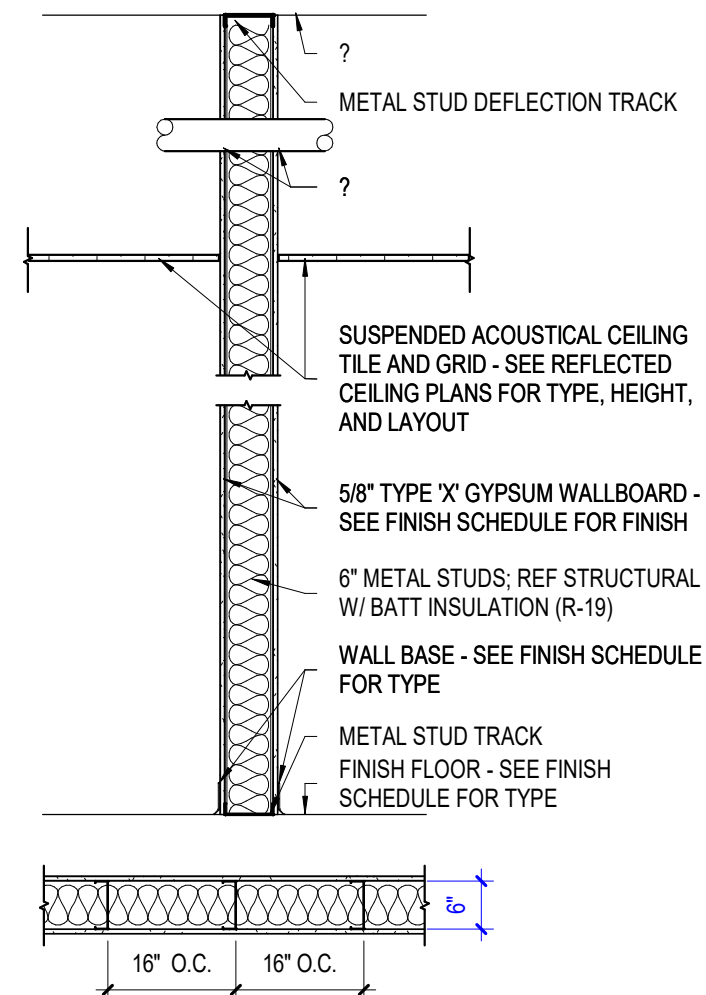
4B PARTITION
5/8" TYPE 'X' GYPSUM WALL BOARD EACH SIDE
TO DECK/STRUCTURE ABOVE
3 5/8" METAL STUD
SOUND ATTENUATION BATT INSULATION
SEE FINISH SCHEDULE FOR FINISHES



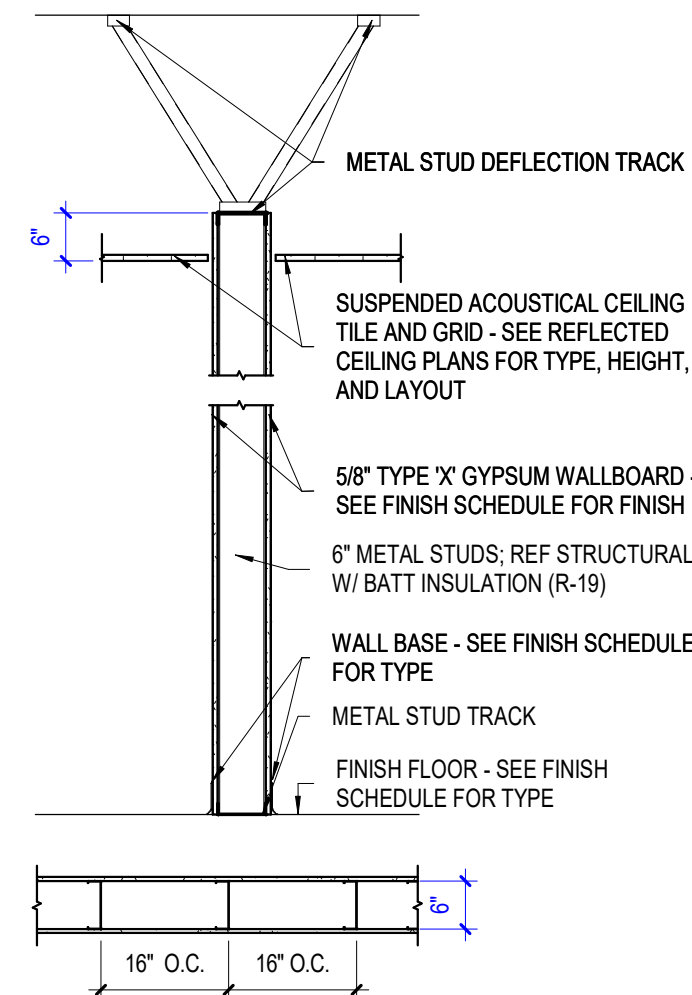
4A PARTITION
5/8" TYPE 'X' GYPSUM WALL BOARD EACH SIDE 6"
ABOVE FINISH CEILING
3 5/8" METAL STUD
SEE FINISH SCHEDULE FOR FINISHES



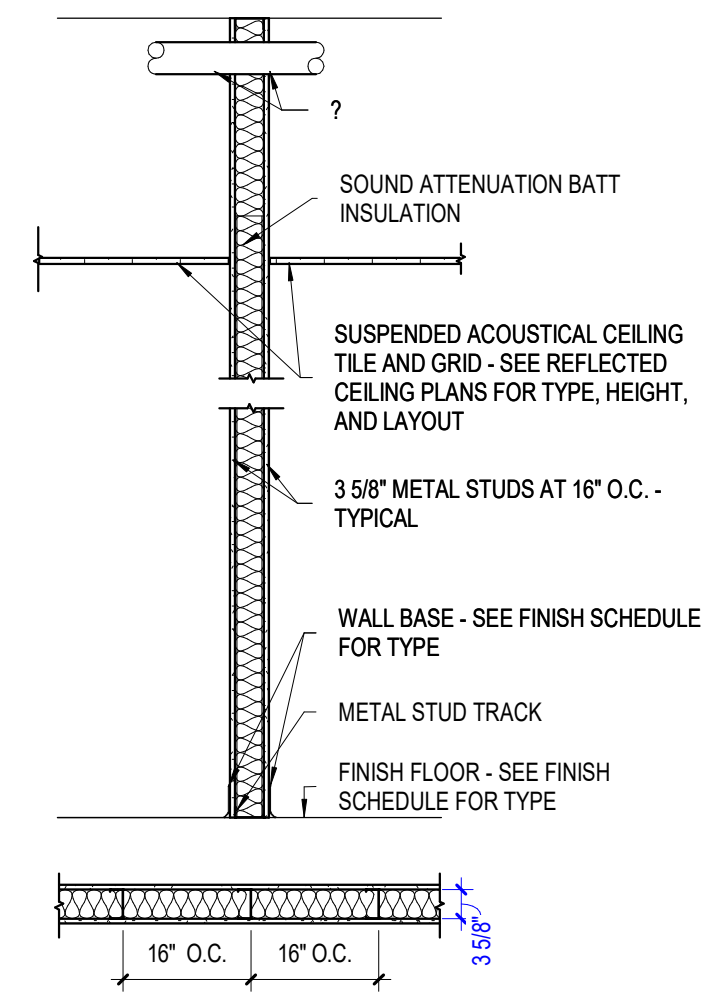
6C SOUND PARTITION
5/8" TYPE 'X' GYPSUM WALL BOARD EACH SIDE 6"
ABOVE FINISH CEILING
6" METAL STUDS
SOUND ATTENUATION BATT IN STUDS & 2'-0" EACH
SIDE ABOVE FINISH CEILING
SEE FINISH SCHEDULE FOR FINISHES



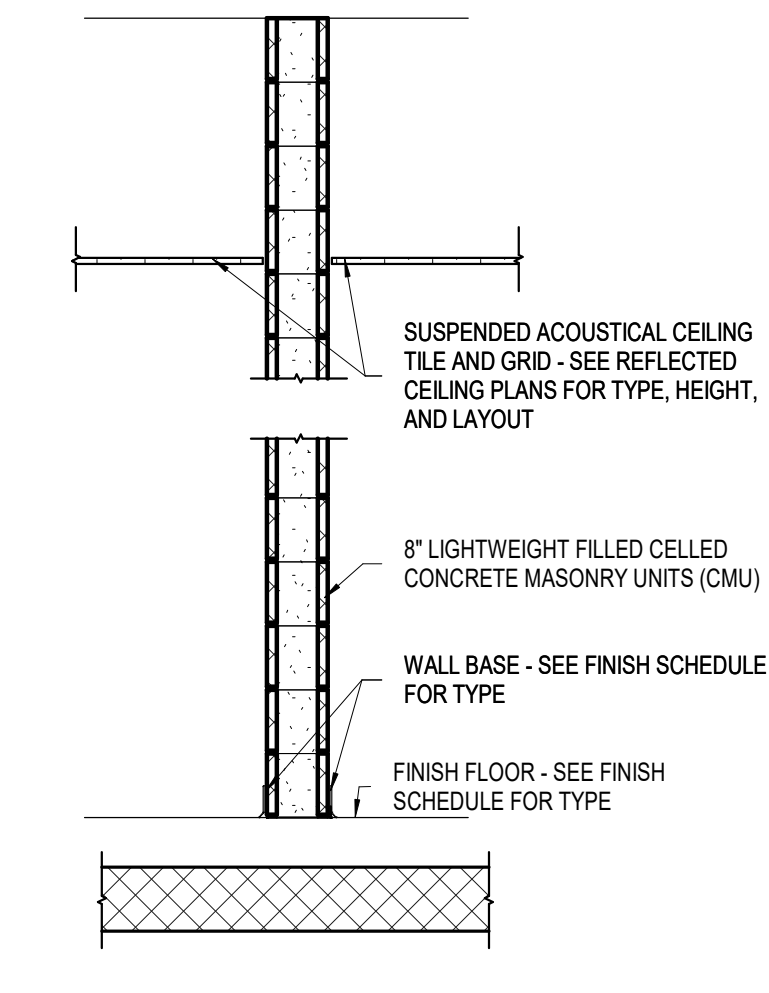
6B PARTITION
5/8" TYPE 'X' GYPSUM WALL BOARD EACH SIDE TO
DECK/STRUCTURE ABOVE
6" METAL STUD
SOUND ATTENUATION BATT INSULATION
SEE FINISH SCHEDULE FOR FINISHES



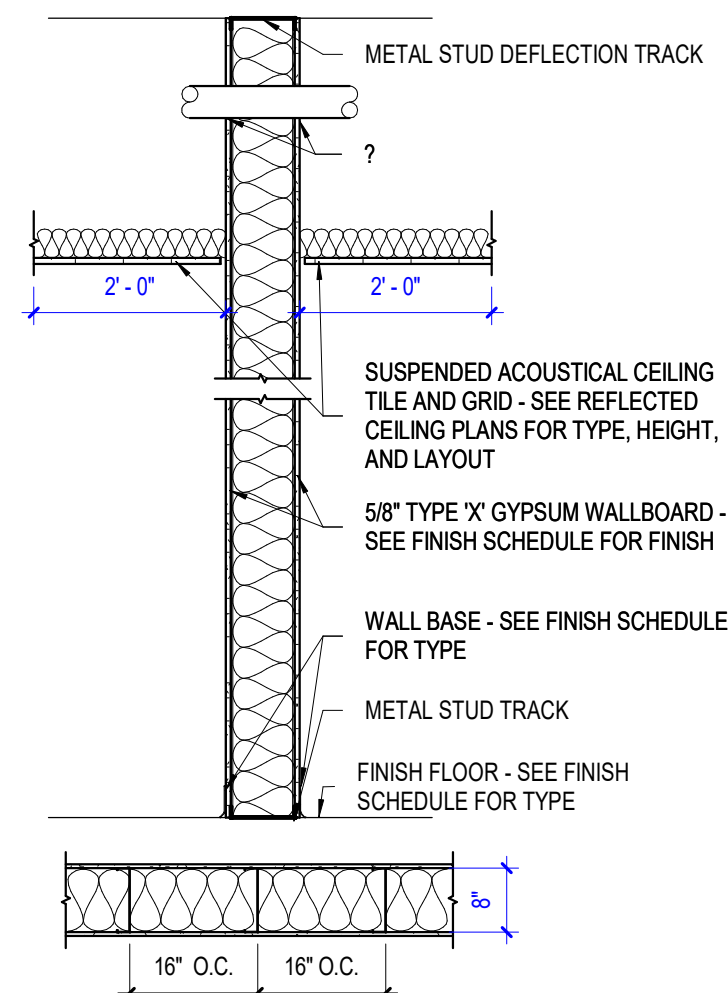
6A PARTITION
5/8" TYPE 'X' GYPSUM WALL BOARD EACH SIDE
6" ABOVE FINISH CEILING
6" METAL STUDS
SEE FINISH SCHEDULE FOR FINISHES



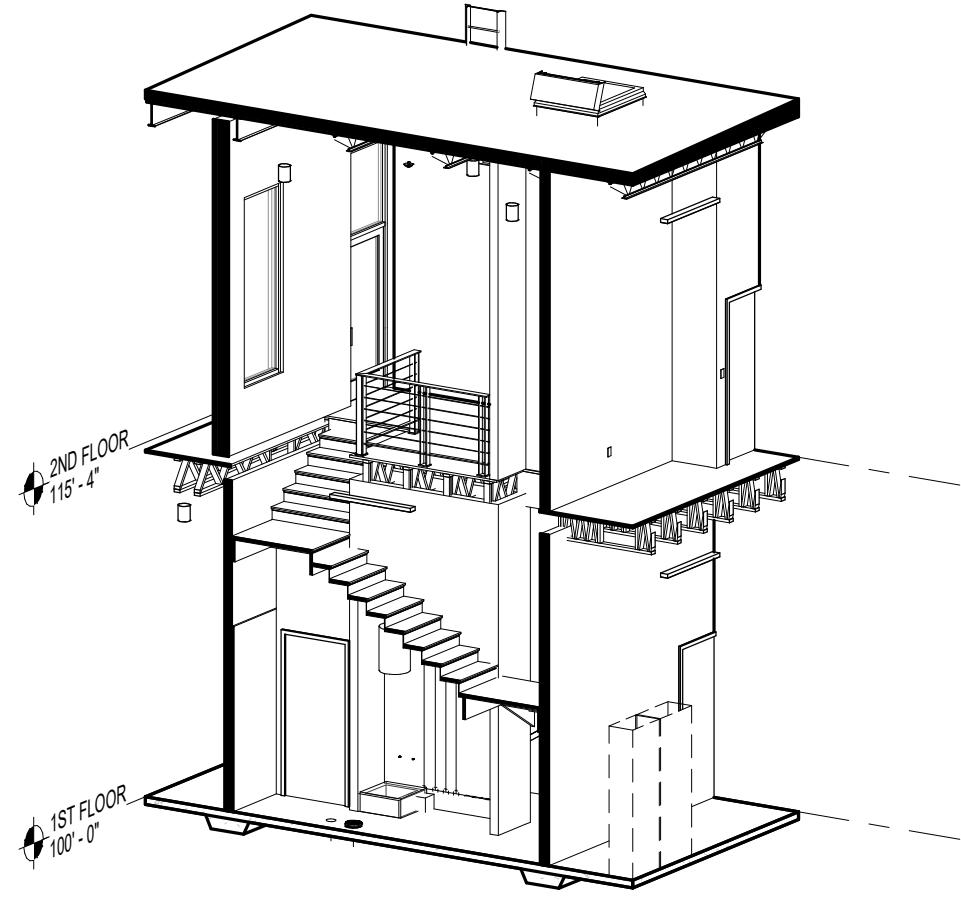
E1 EXISTING METAL STUD INTERIOR PARTITION TO
RECEIVE BATT INSULATION WITH (1) ONE LAYER
GPDW ON EACH SIDE. (IF NOT PREVIOUSLY DONE)



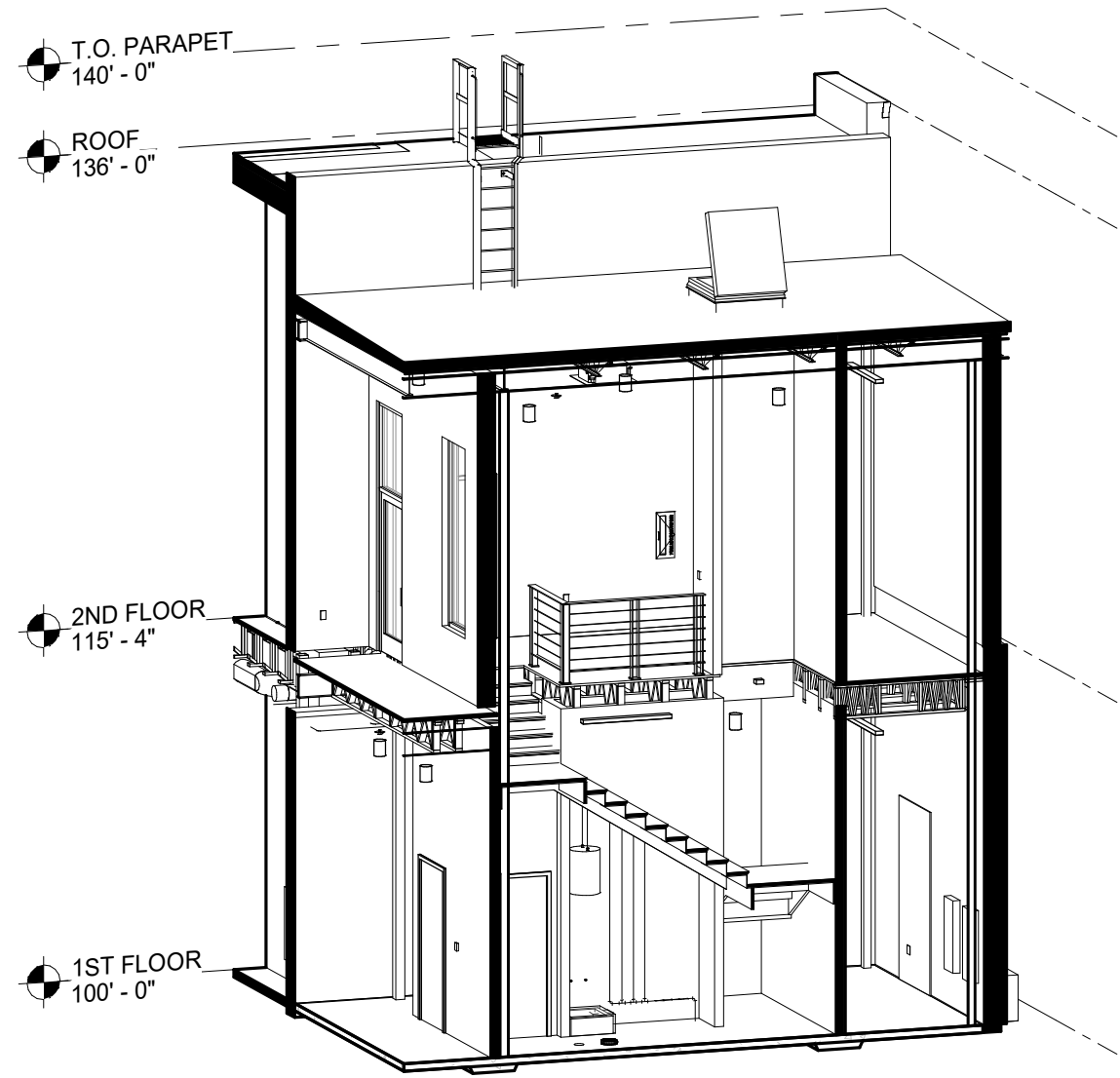
6B 8" LIGHTWEIGHT FILLED CELL CONCRETE
MASONRY UNIT (CMU)



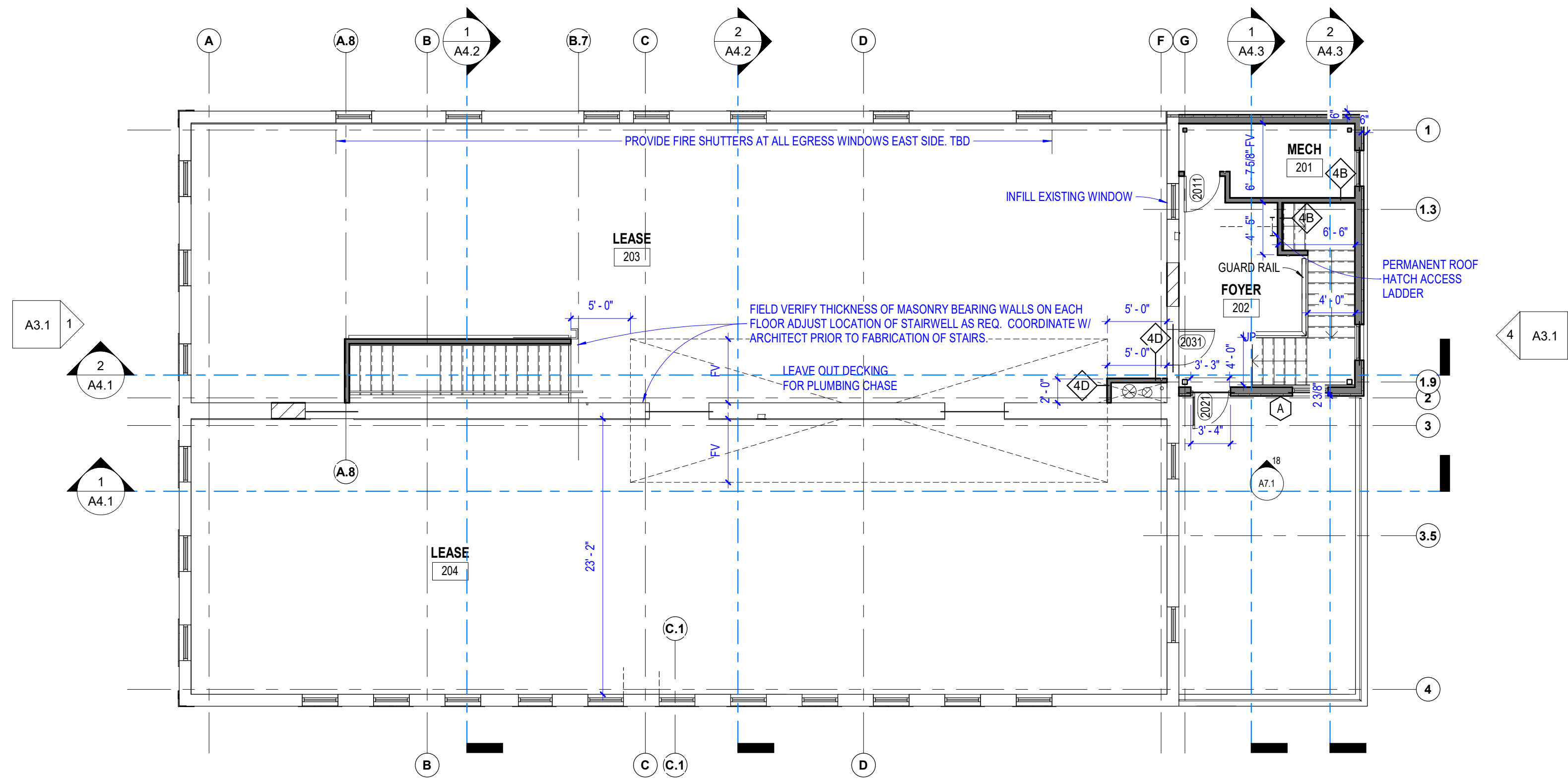
6A SOUND PARTITION
5/8" TYPE 'X' GYPSUM WALL BOARD EACH SIDE 6"
ABOVE FINISH CEILING
8" METAL STUDS @ 16" O.C. - TYP.
SOUND ATTENUATION BATT IN STUDS & 2'-0" EACH
SIDE ABOVE FINISH CEILING
SEE FINISH SCHEDULE FOR FINISHES



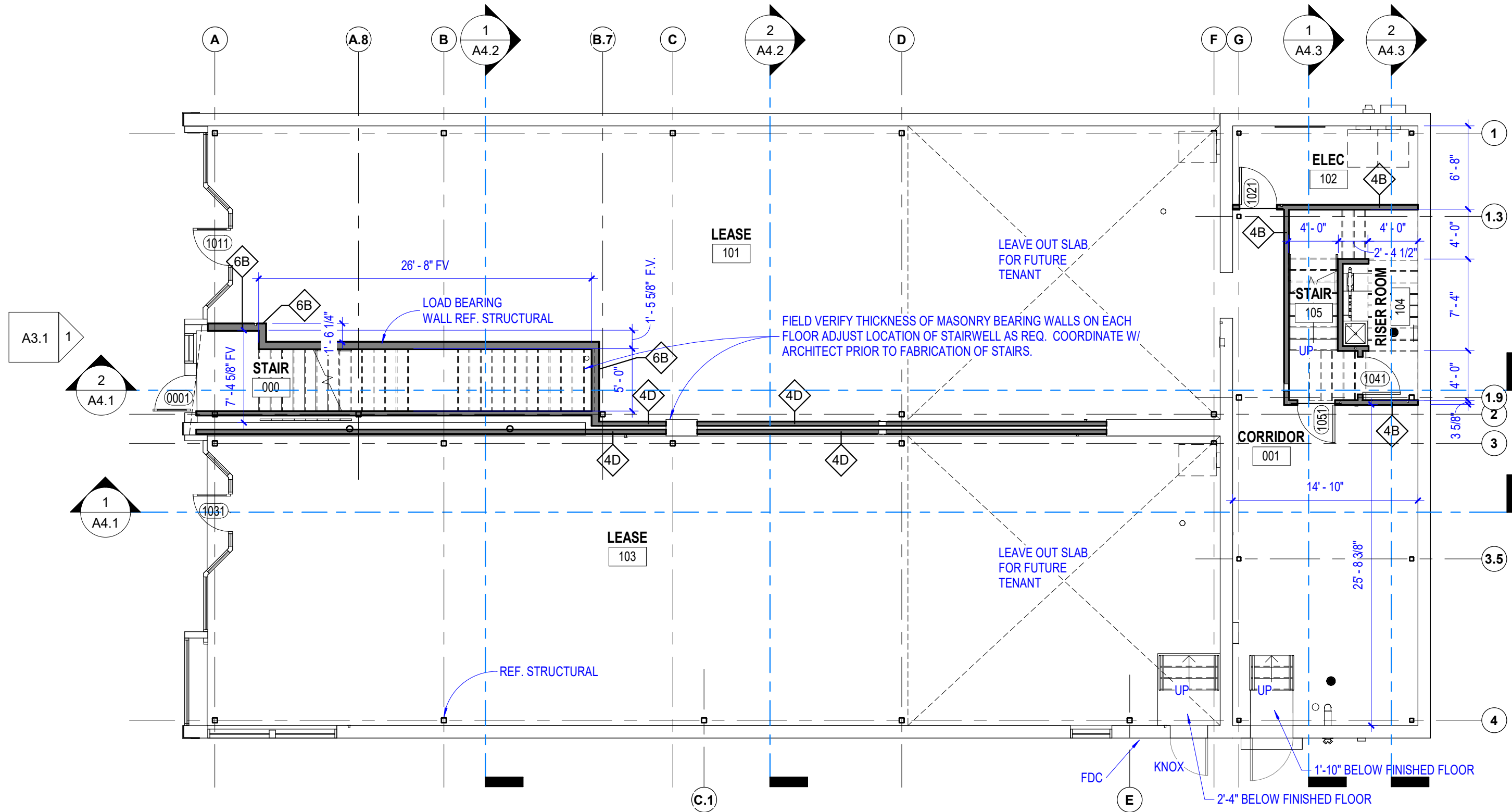
3 STAIR AXON 1



4 STAIR AXON 2



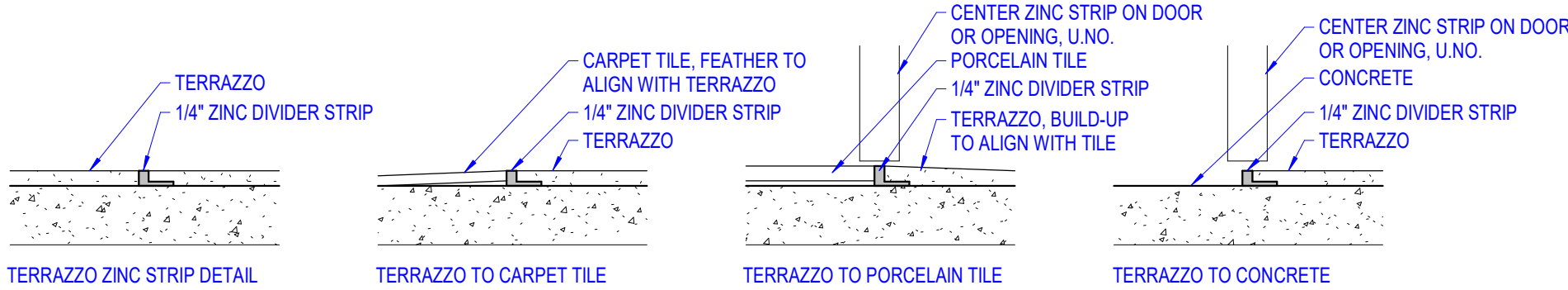
2 2ND FLOOR
1/8" = 1'-0"



1 1ST FLOOR
1/8" = 1'-0"

ROOM FINISH SCHEDULE							
ROOM FINISH STYLE	ROOM #	ROOM NAME	FLOOR FINISH	BASE FINISH	CEILING FINISH	WALL FINISH	COMMENTS
(none)	000	STAIR					
(none)	001	CORRIDOR					
(none)	101	LEASE					
(none)	102	ELEC					
(none)	103	LEASE					
(none)	104	RISER ROOM					
(none)	105	STAIR					
(none)	106	STORAGE					
(none)	201	MECH					
(none)	202	FOYER					
(none)	203	LEASE					
(none)	204	LEASE					

ROOM FINISH LEGEND	
FLOOR FINISH CARPET MNFR: XX STYLE: XX COLOR: XX V.C.T. (VINYL COMPOSITE TILE) MNFR: XX STYLE: XX COLOR: XX SIZE: XX	CEILING FINISH LAY-IN: MNFR: XX EDGE PROFILE: XX ITEM #: XX DIMENSIONS: XX COLOR: XX HARD-LID: GYP. BD. ON METAL STUDS (PAINT)
BASE FINISH VINYL-1: (VINYL BASE) MNFR: XX STYLE: XX COLOR: XX	WALL FINISH PAINT-1: (GENERAL PAINT) MNFR: XX COLOR: XX FINISH: XX
TRANSITION STRIP COLOR TO MATCH VINYL BASE. INSTALL AT ALL FLOORING TRANSITIONS	



1 TERRAZZO TRANSITION DETAILS
3" = 1'-0"

LEGEND	
	FLOOR FINISH TO REMAIN
	CARPET-1
	CARPET-2
	VCT-1
	CER. TILE - 1

CORE ARCHITECTS

1800 S. OSAGE SPRINGS DR. - SUITE 100 - ROGERS, AR 72758
PH- 479.631.2673 FX - 479.631.2674 www.core-arch.com

ARCHITECT OF RECORD:

NOT FOR CONSTRUCTION

REVISION		
NO.	ISSUE	DATE

CONSULTANT:

UNION BLOCK BUILDING

124 W WALNUT STR
ROGERS, ARKANSAS 72756

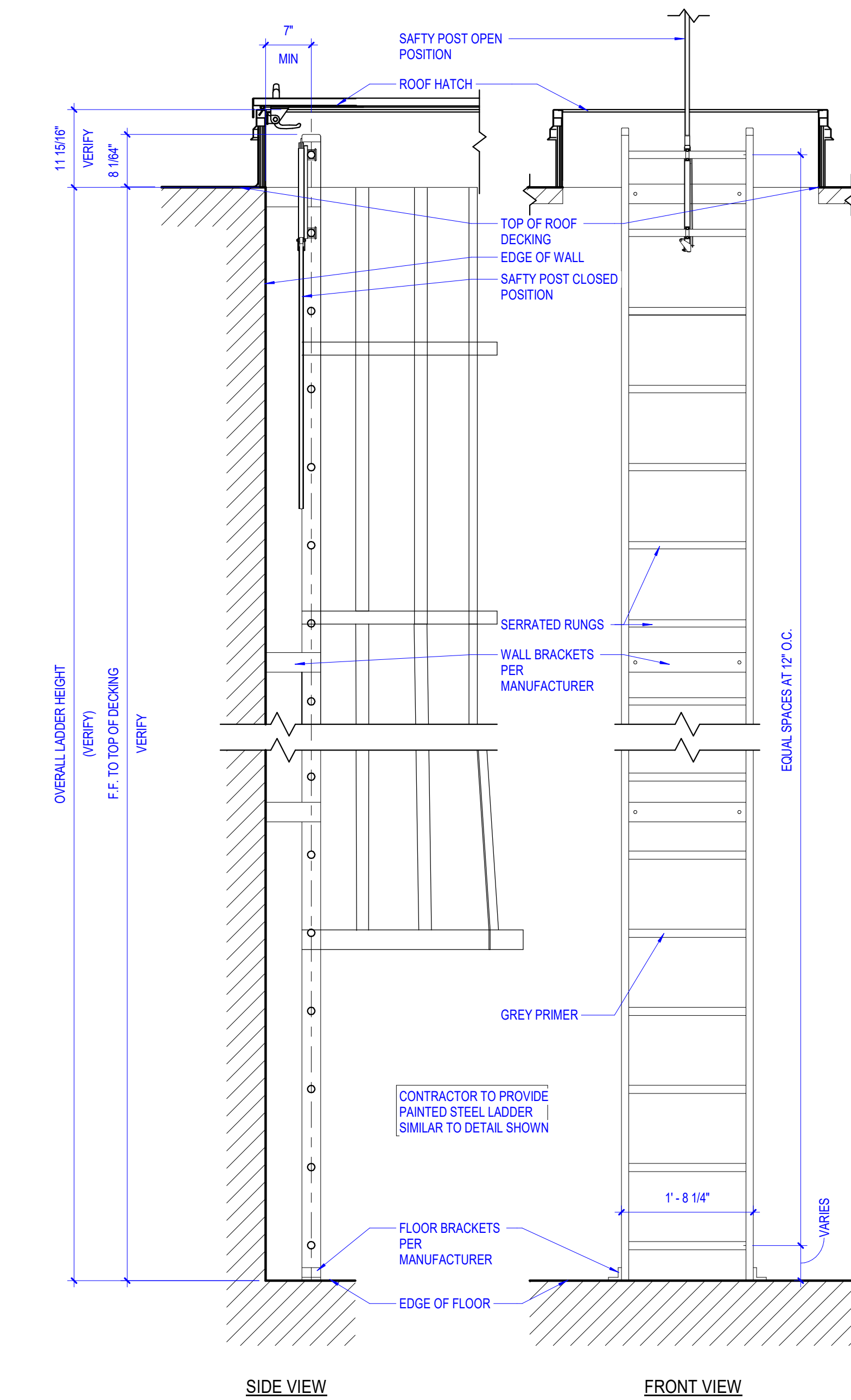
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GON

CHECKED BY:
GON

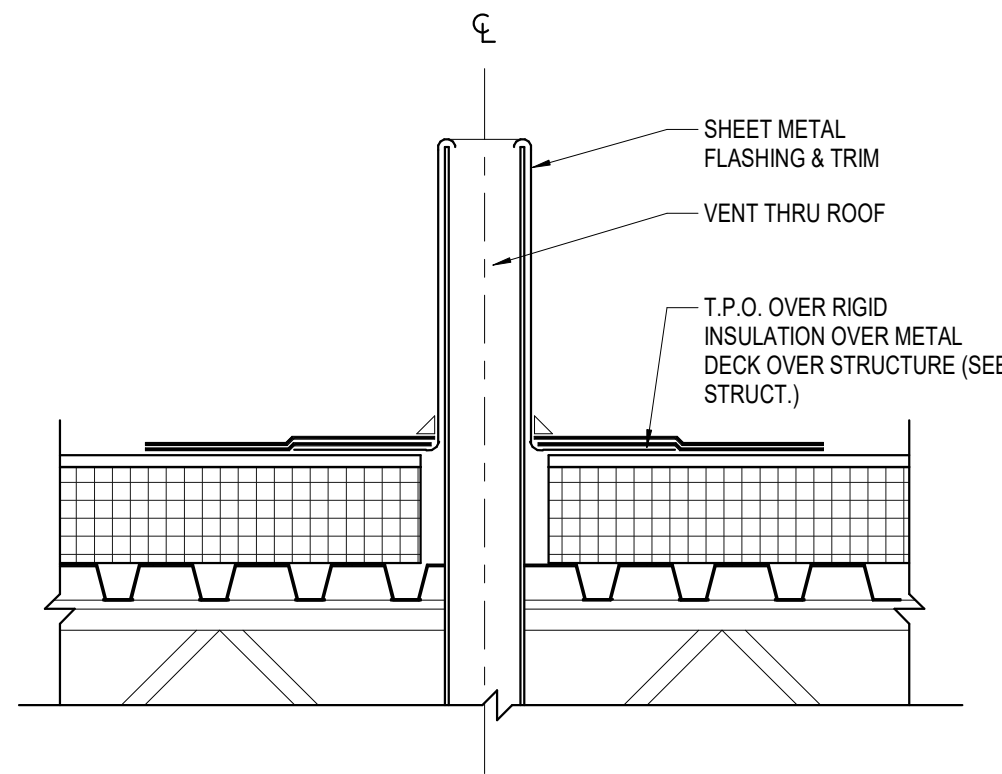
PROJECT #:
25-042

DATE:
01/30/2026

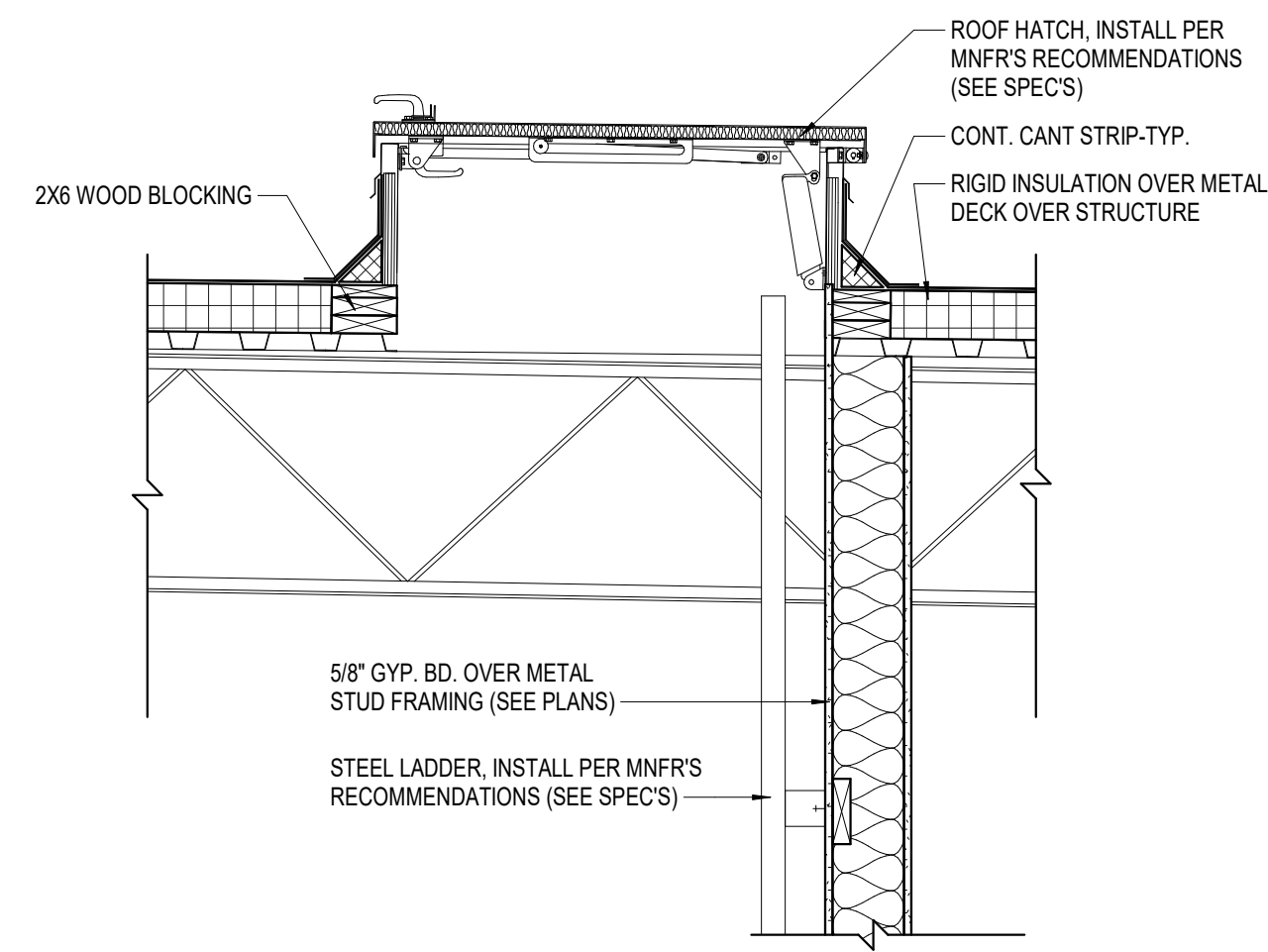
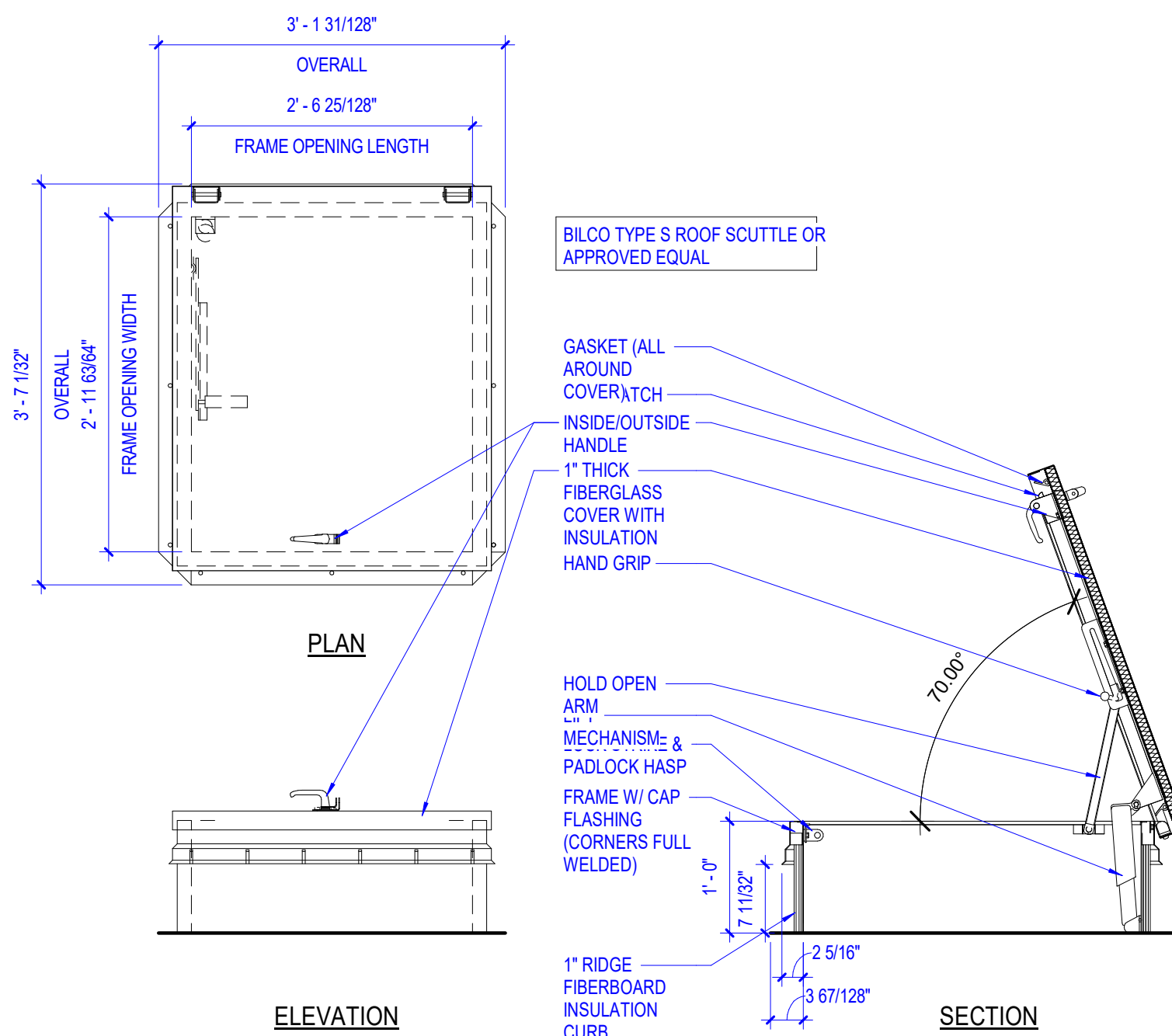
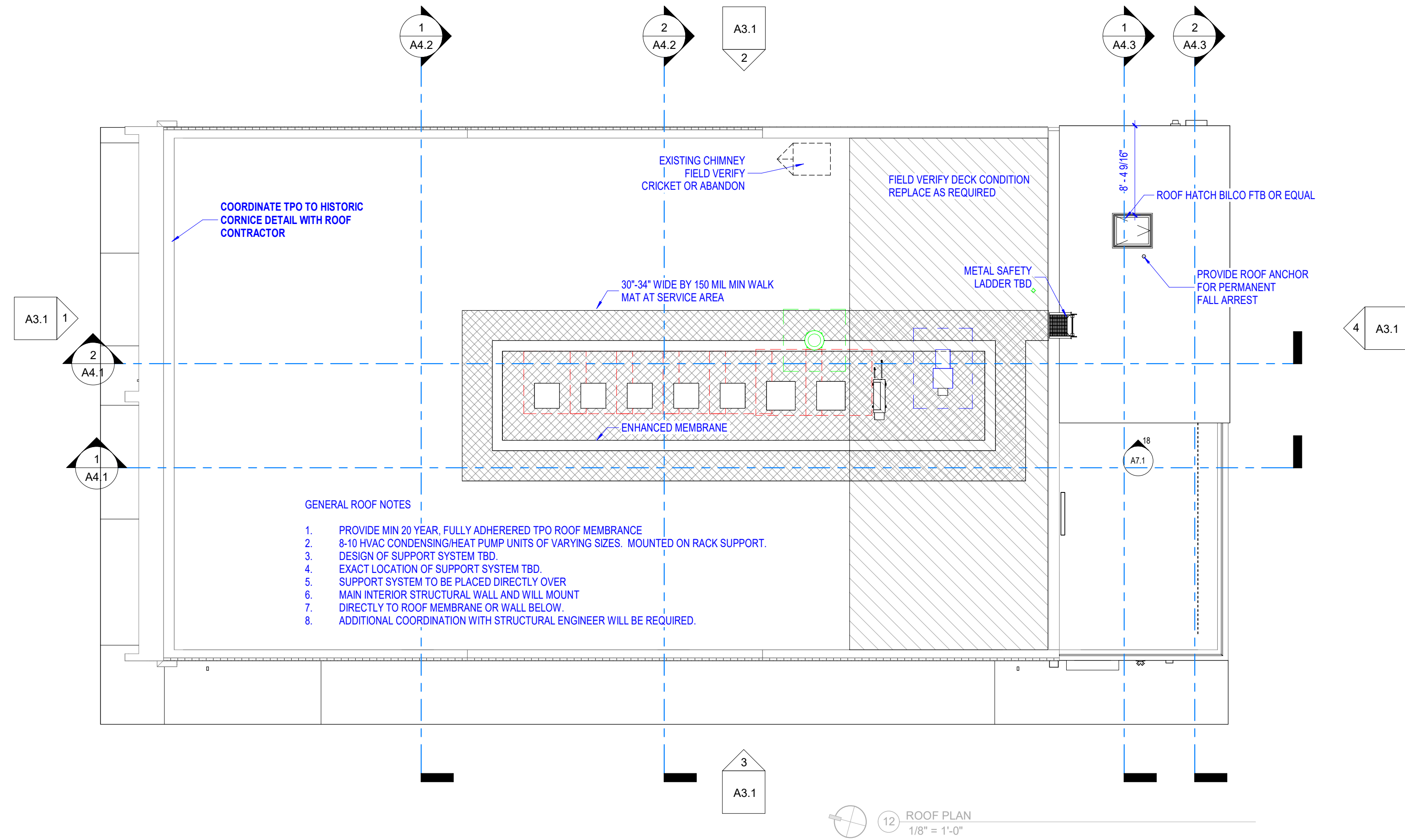
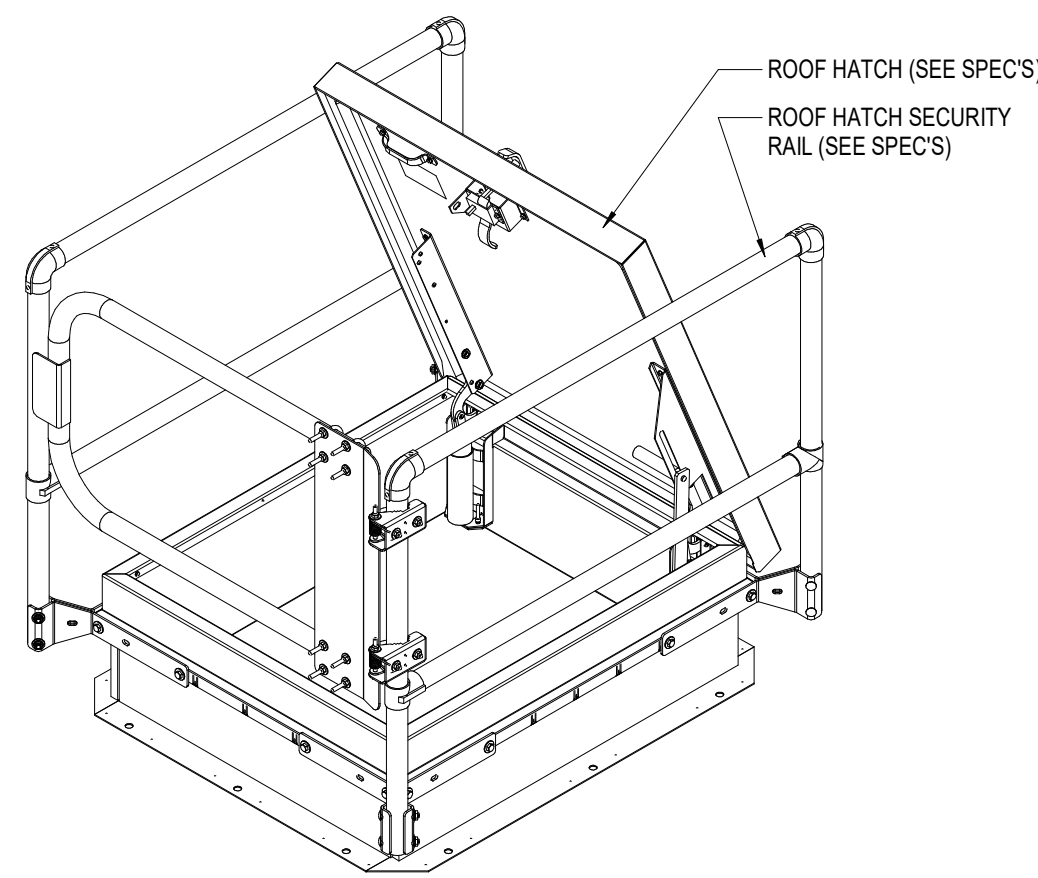
DRAWING:
A2.2
FINISH FLOOR PLAN
& SCHEDULE

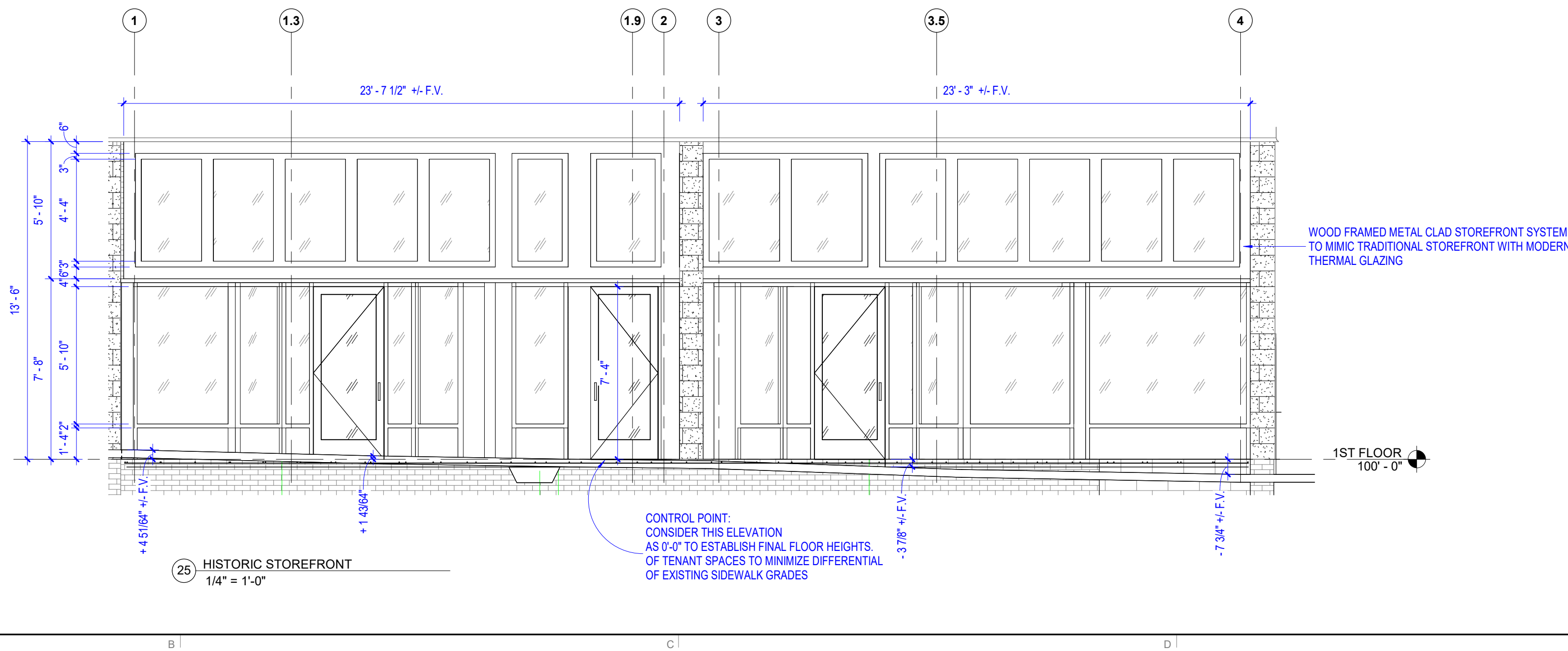
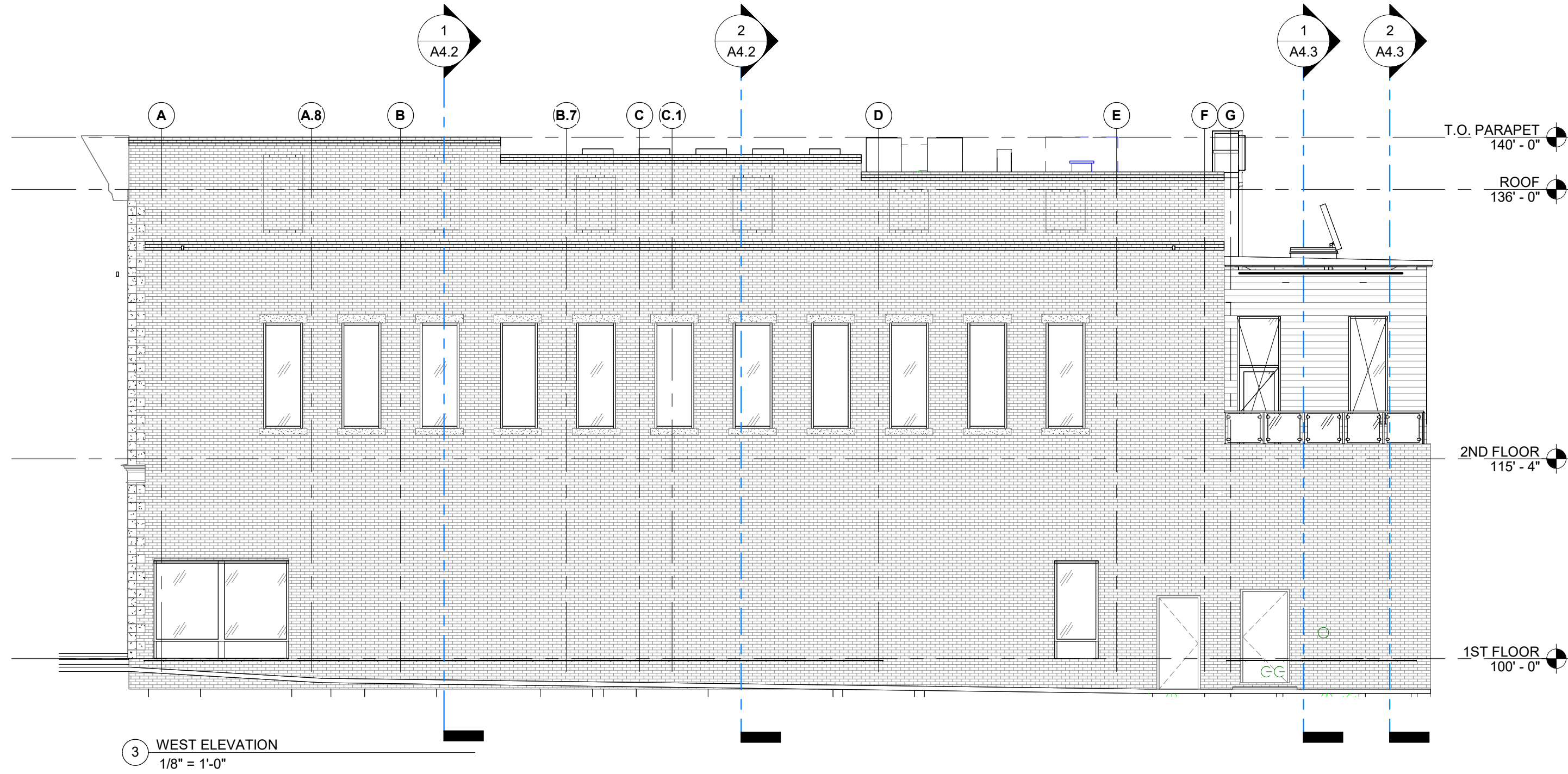
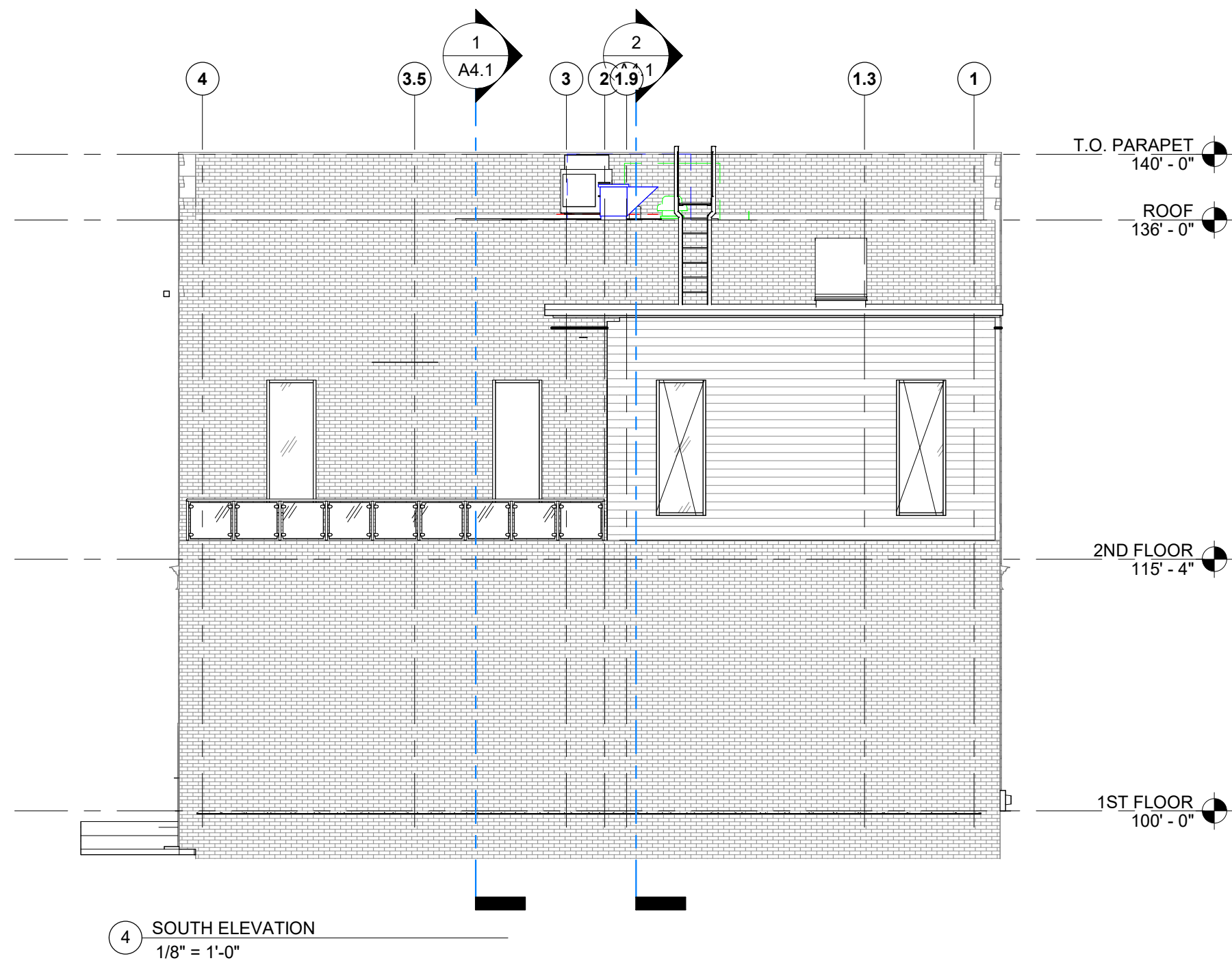
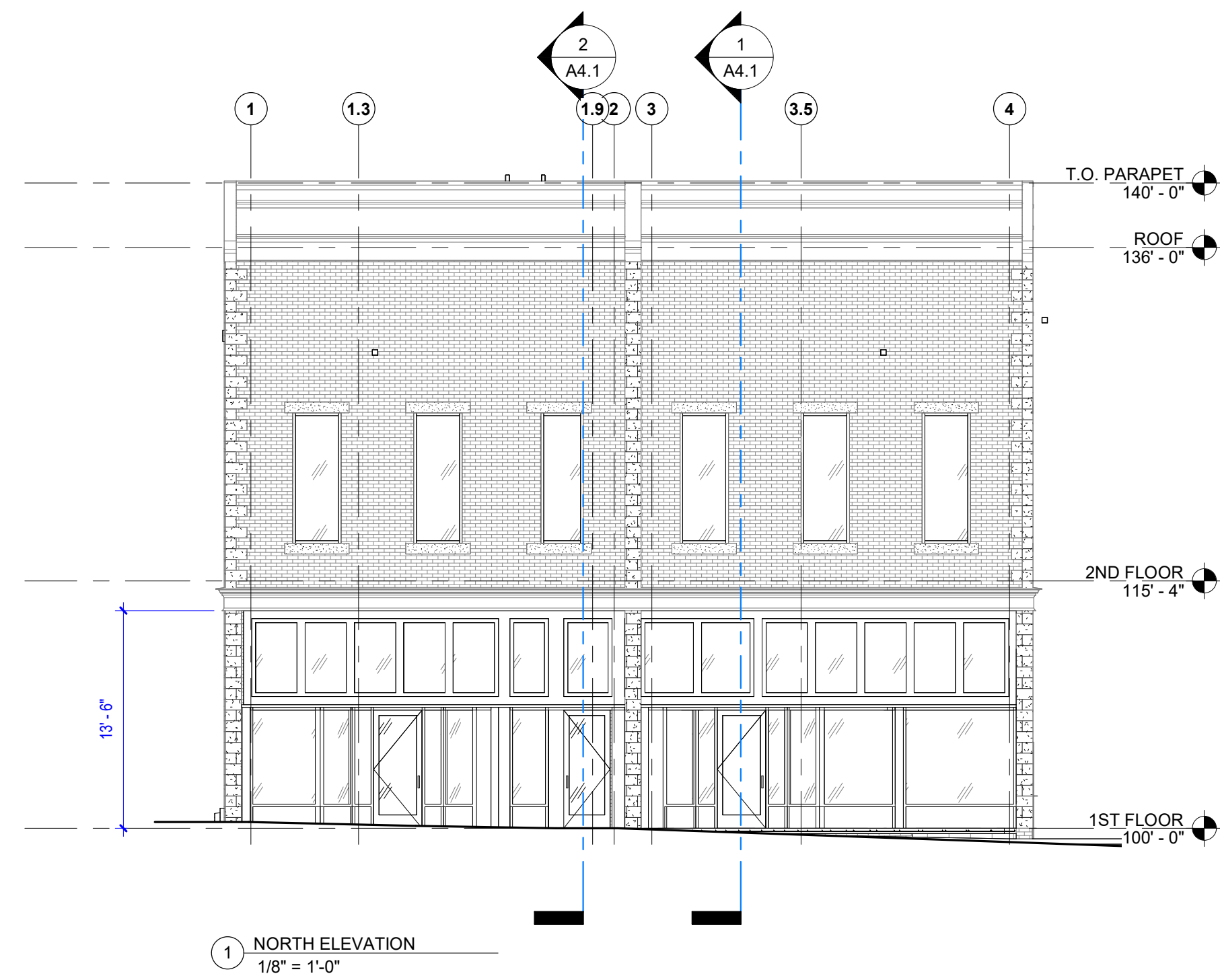
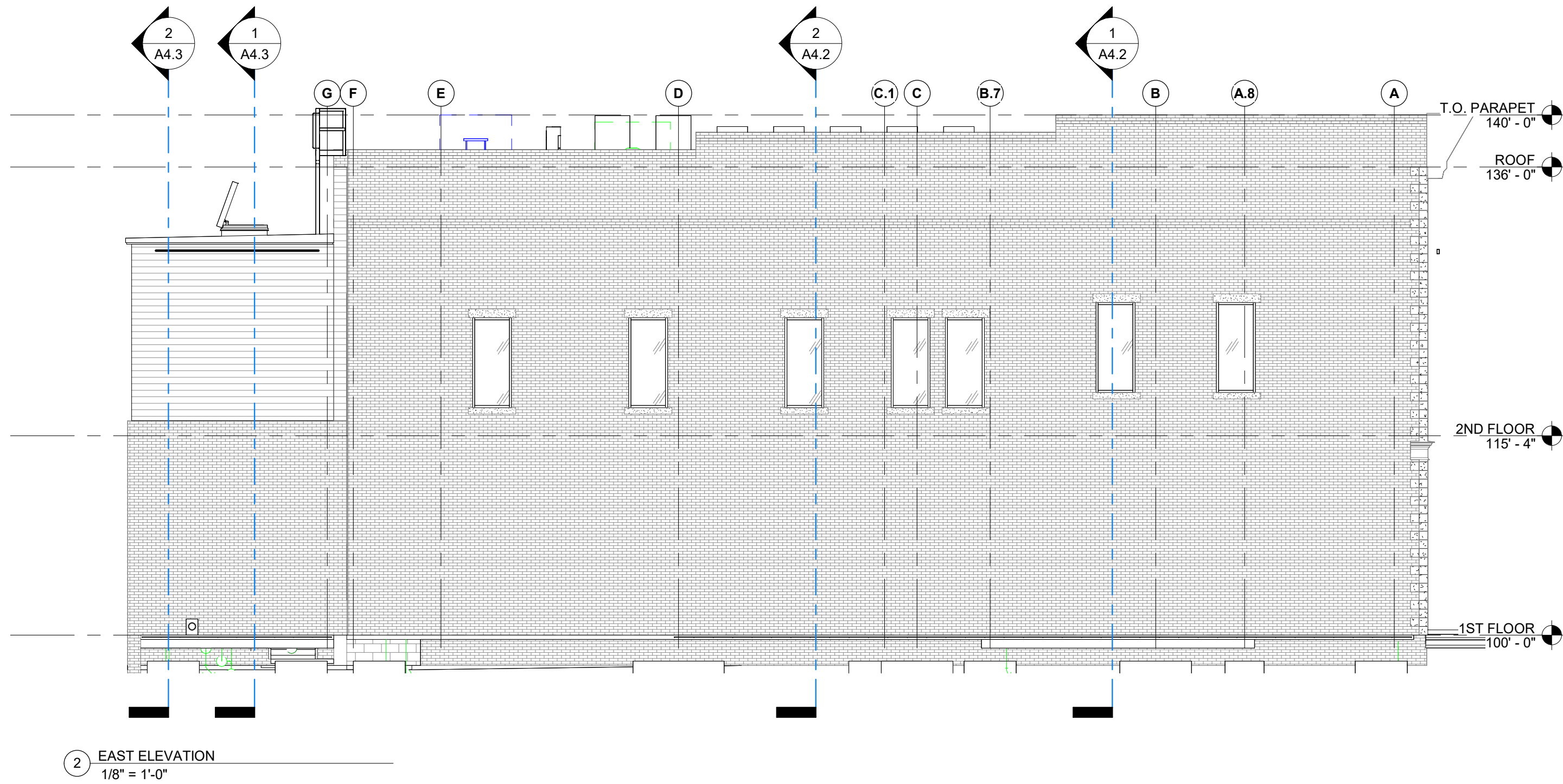


3 ROOF ACCESS LADDER
3/4" = 1'-0"



2 VENT THRU ROOF DETAIL
1 1/2" = 1'-0"





INTERIOR FINISH NOTES

GENERAL NOTES:

- INSTALL ALL NEW FINISHES / MATERIALS PER MANUFACTURER'S RECOMMENDATIONS.
- ALL HOLLOW METAL DOORS, DOOR FRAMES AND WINDOW FRAMES SHALL BE PAINTED WITH ACRYLIC ENAMEL COATING.
- ALL INTERIOR SUPPLY AND RETURN DIFFUSERS AND ACCESS PANELS SHALL BE PAINTED TO MATCH ADJACENT SURFACE IN ANY WALL OR CEILING.
- ALL SWITCH PLATES AND OUTLET PLATES TO BE WHITE FINISH. ALL FLOOR BOXES TO BE STAINLESS STEEL FINISH. G BLOCKING IN ALL WALLS FOR ANY CASEWORK. OTHER BLOCKING MAY BE REQUIRED AND SHALL BE COORDINATED WITH ARCHITECT.

FLOORING:

- ALL FLOORING TRANSITIONS SHALL TERMINATE AT THE CENTER OF THE DOOR OR CEILING, UNLESS NOTED OTHERWISE.
- PROTECT / COVER INSTALLED COVERINGS UNTIL ALL TRADES LEAVE THE JOBSITE.

WALLS:

- ALL GYPSUM BOARD TO BE FINISHED AT A LEVEL 4. SMOOTH FINISH (NO TEXTURE)

CEILINGS:

- ALL GYPSUM BOARD CEILINGS AND SOFFITS TO BE FINISHED AT A LEVEL 4 SMOOTH FINISH (NO TEXTURE)
- INSTALL AXIOM TRIM AT EXPOSED EDGES OF ACOUSTIC CEILING TILE GRID.

MILLWORK:

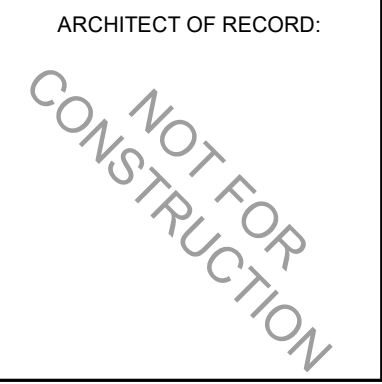
- SEE NOTES ON MILLWORK SHEET.

MILLWORK NOTES

- FOR MILLWORK FINISHES, SEE FINISH LEGEND
- VERIFY ALL APPLIANCE DIMENSIONS PRIOR TO MILLWORK FABRICATION.
- NO EXPOSED FASTENERS
- SEALANT TO BE COLOR MATCHED TO ADJACENT MATERIAL. LATEX SEALANT IS PROHIBITED.
- PROVIDE FULL EXTENSION DRAWER SLIDES AND SOFT CLOSE SLIDES AND HINGES AT ALL CABINETS. ALL HINGES MUST BE CONCEALED, EUROPEAN STYLE.
- GC RESPONSIBLE FOR PROVIDING BLOCKING IN ALL WALLS FOR ANY CASEWORK. OTHER BLOCKING MAY BE REQUIRED AND SHALL BE COORDINATED WITH ARCHITECT, LANDLORD, AND/OR TENANT.
- ALL CABINETS TO BE KEYED.

CABINET PULLS:

MNFR: LIBERTY HARDWARE
PRODUCT: CITATION ALUMINUM II - 4" CENTERS
SIMSBURY PULL P61200-PC-C
FINISH: POLISHED CHROME



REVISION		
NO.	ISSUE	DATE



UNION BLOCK BUILDING

124 W WALNUT STR
ROGERS, ARKANSAS 72756

DRAWN BY:
GON

CHECKED BY:
GON

PROJECT #:

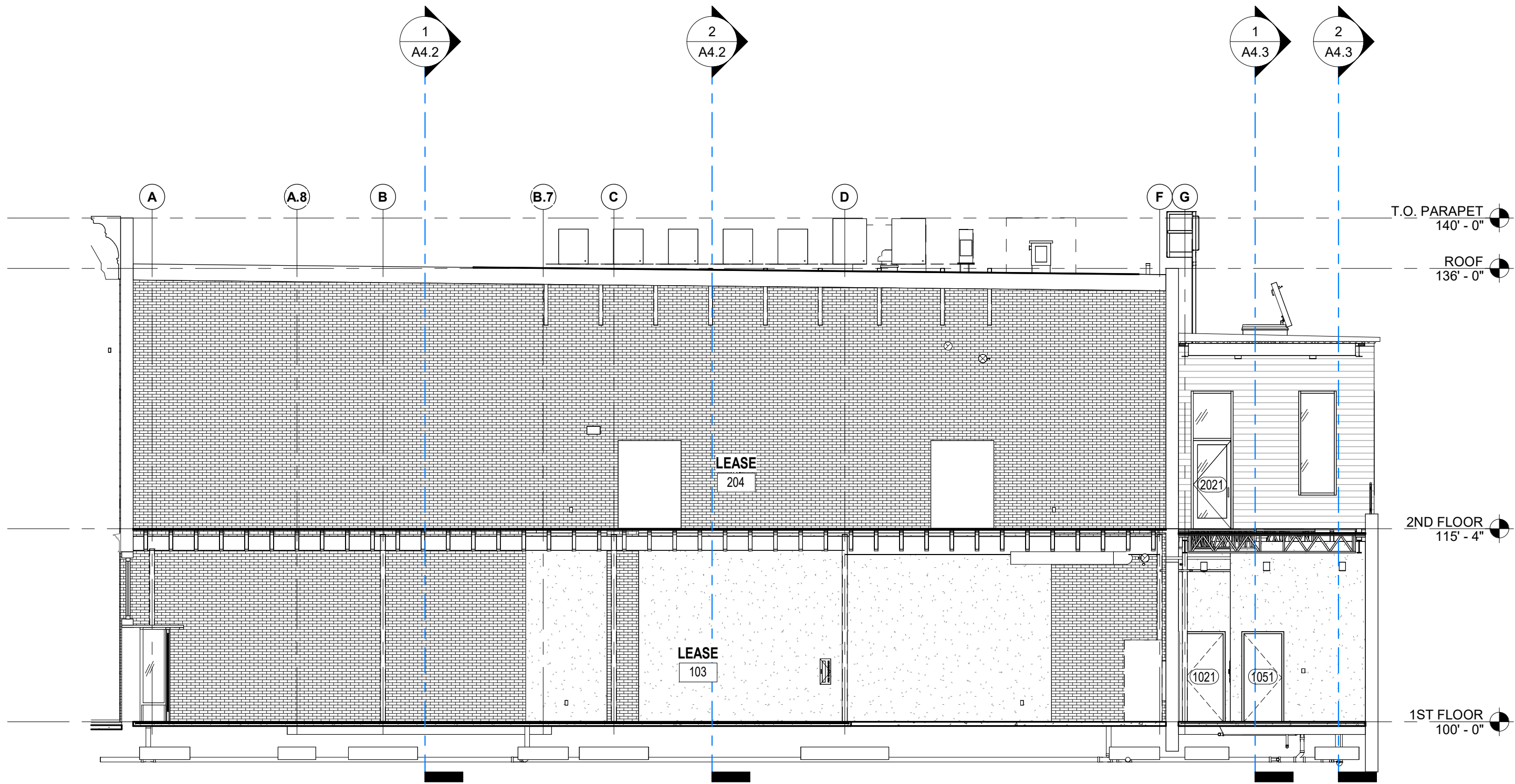
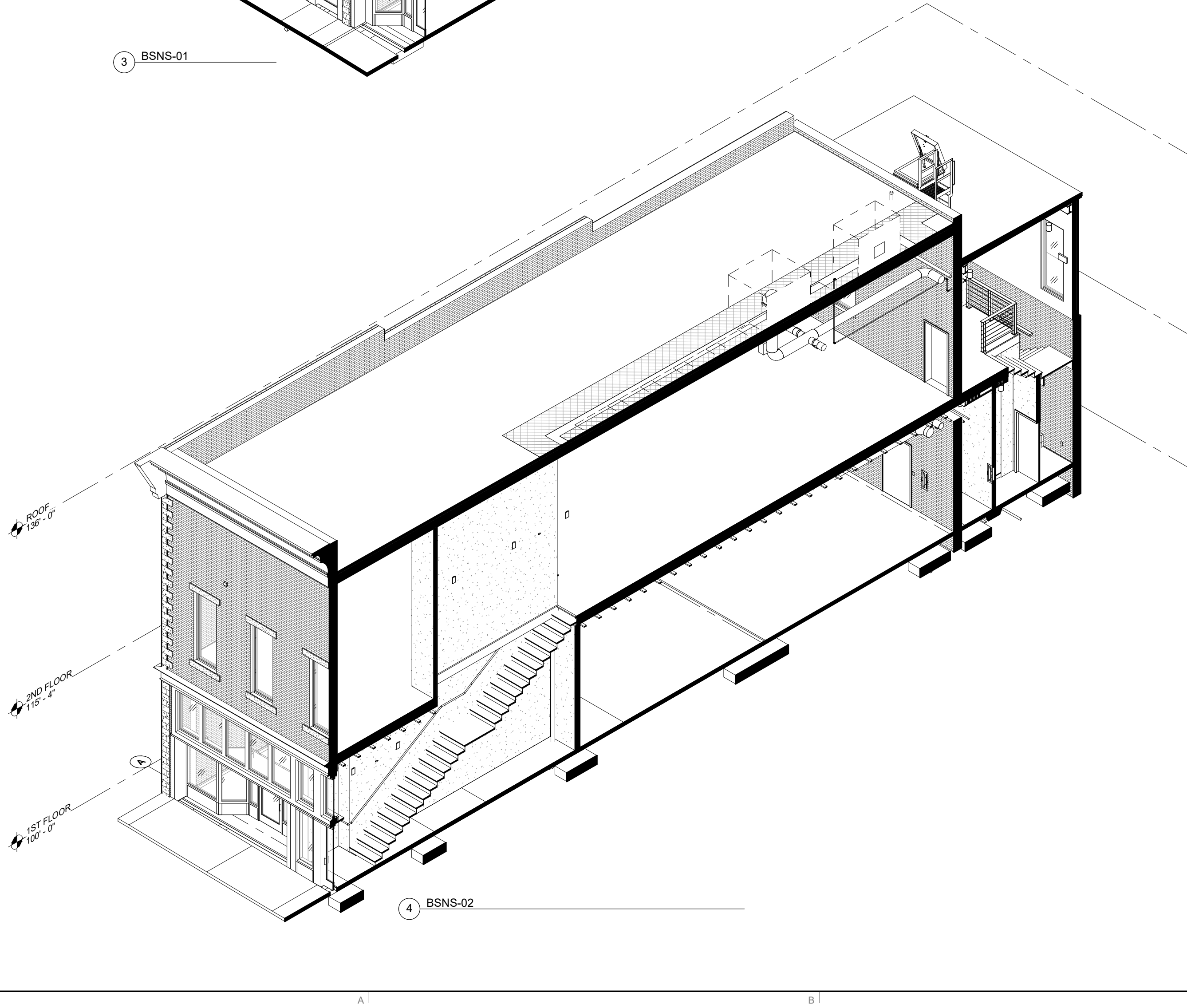
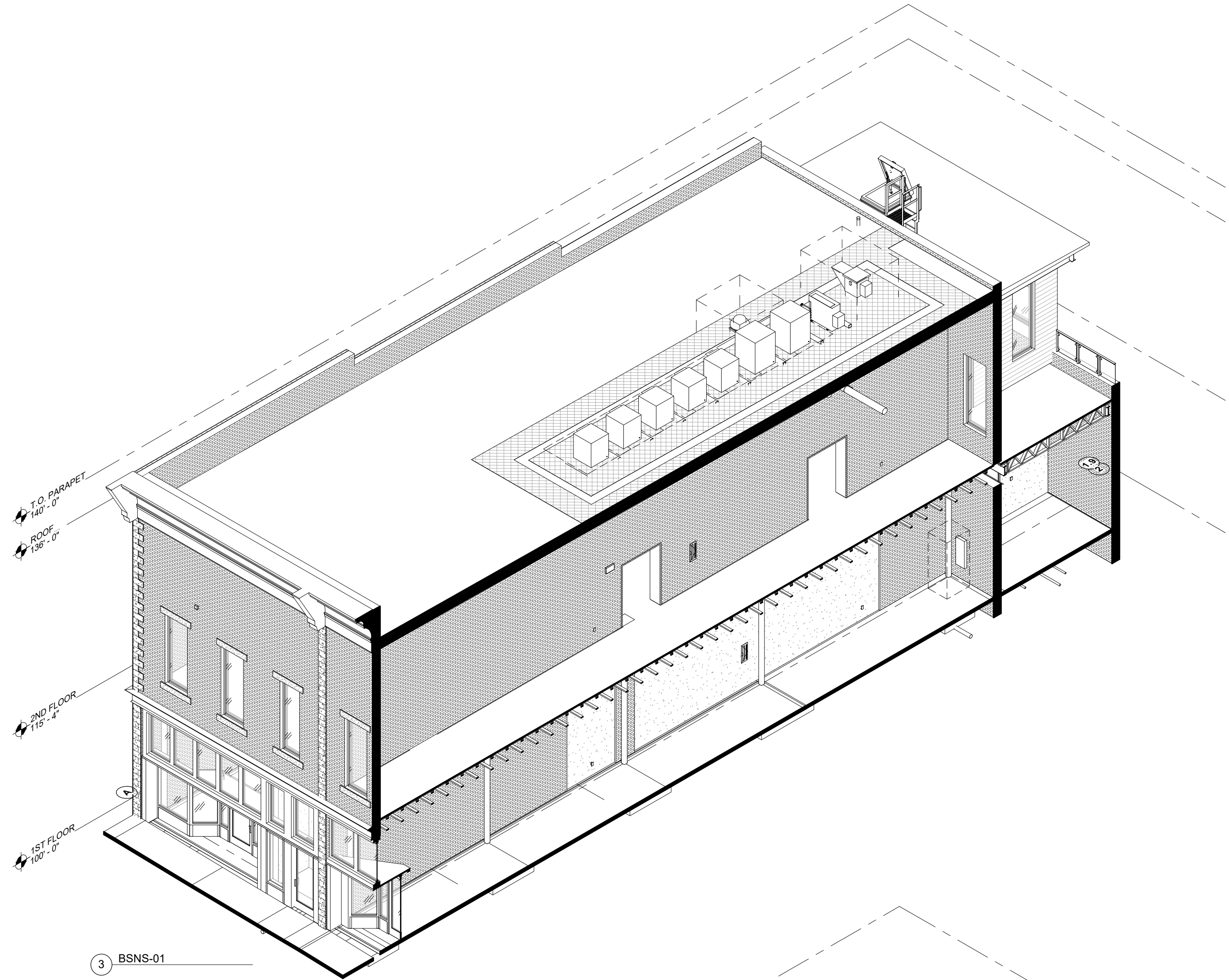
25-042

DATE:

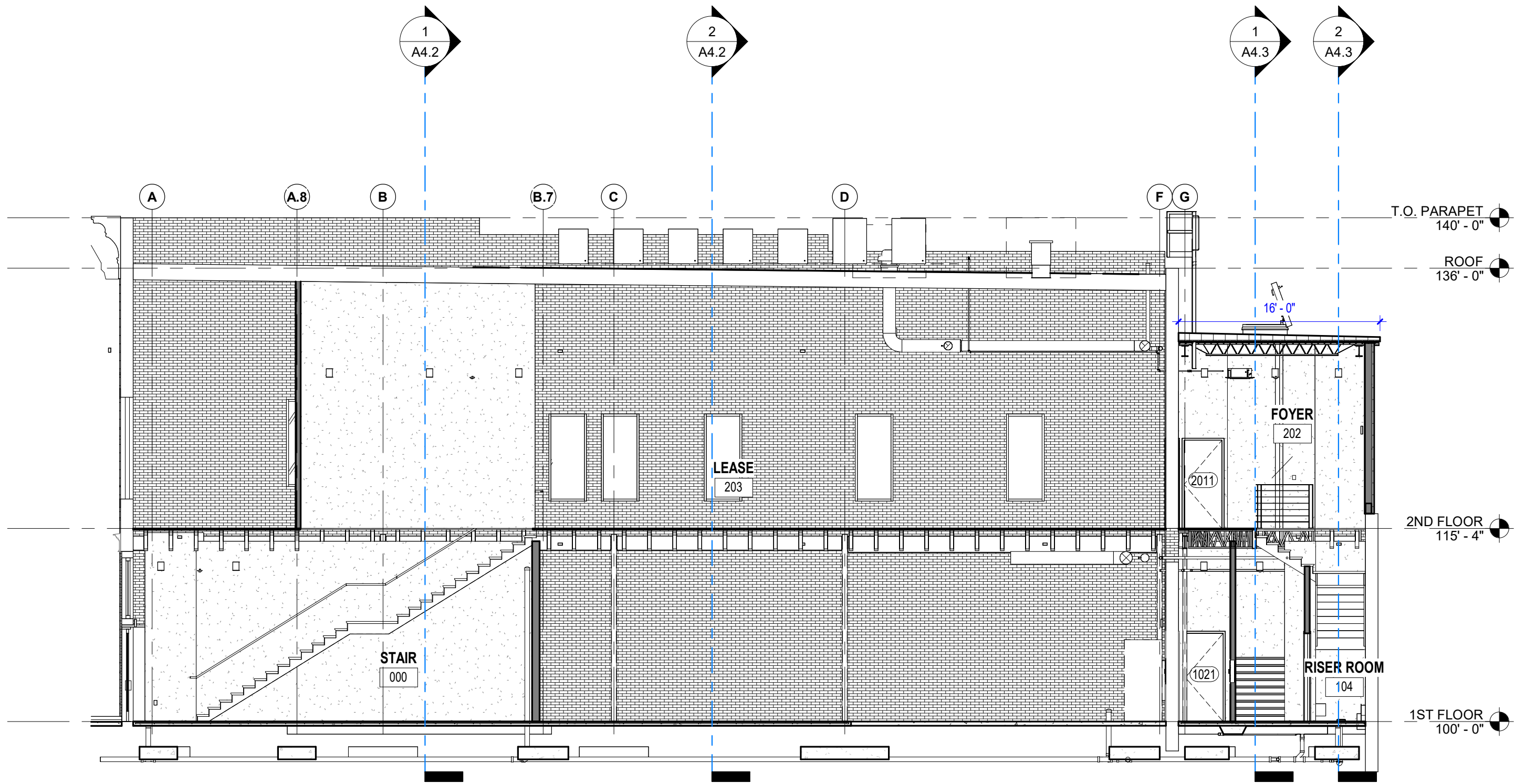
01/30/2026

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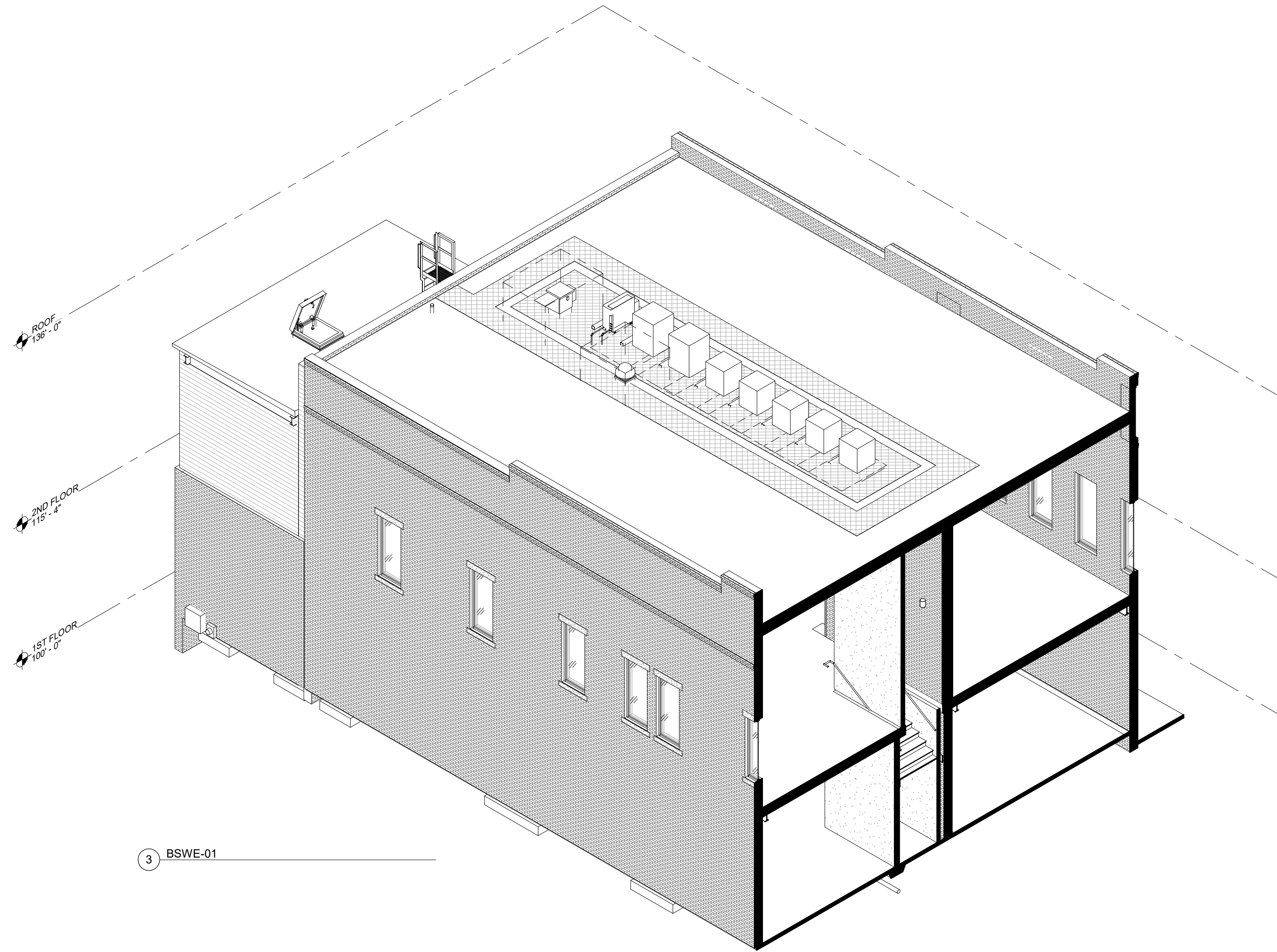
A3.2
INTERIOR
ELEVATION(S)



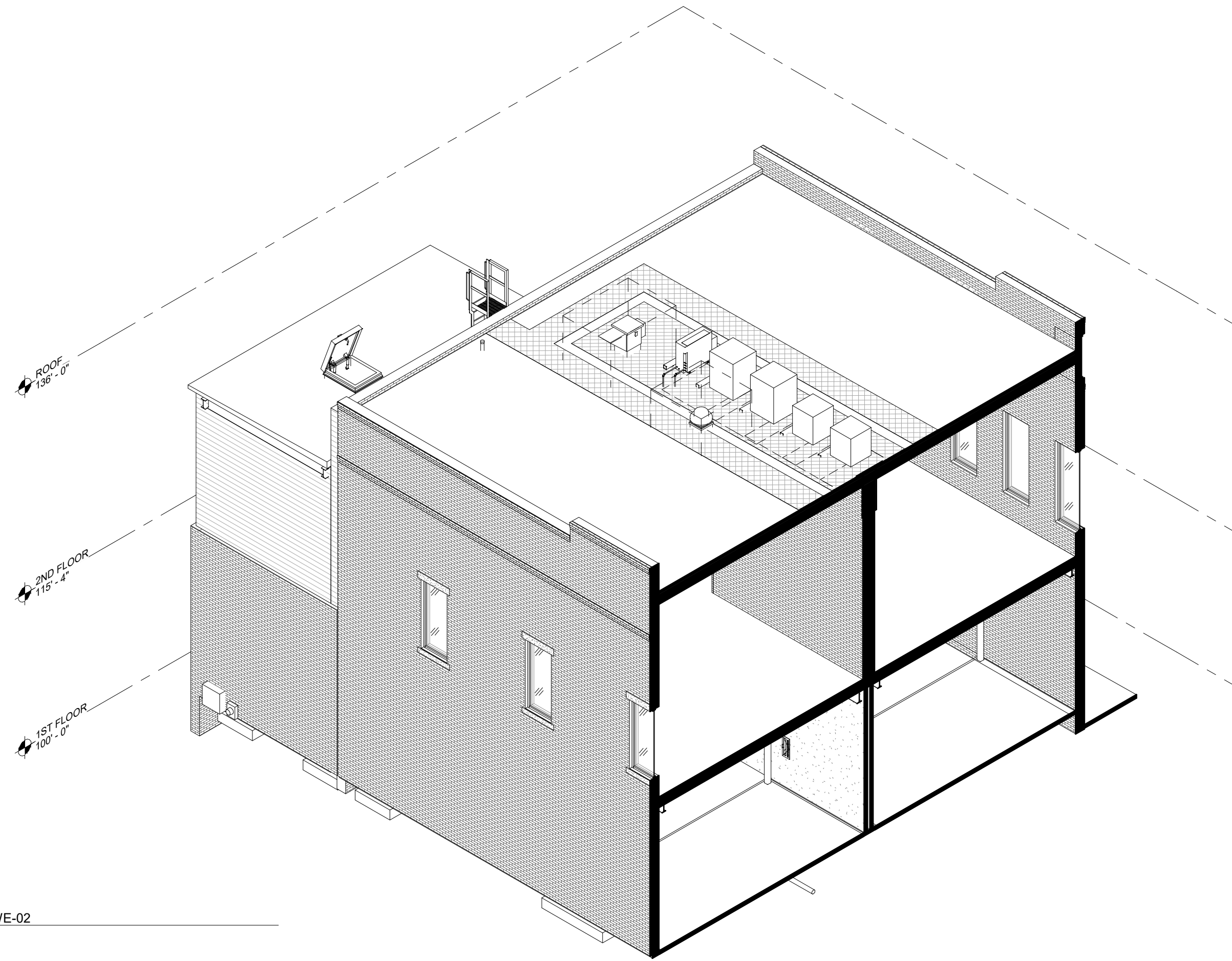
1 BSNS-01
1/8" = 1'-0"



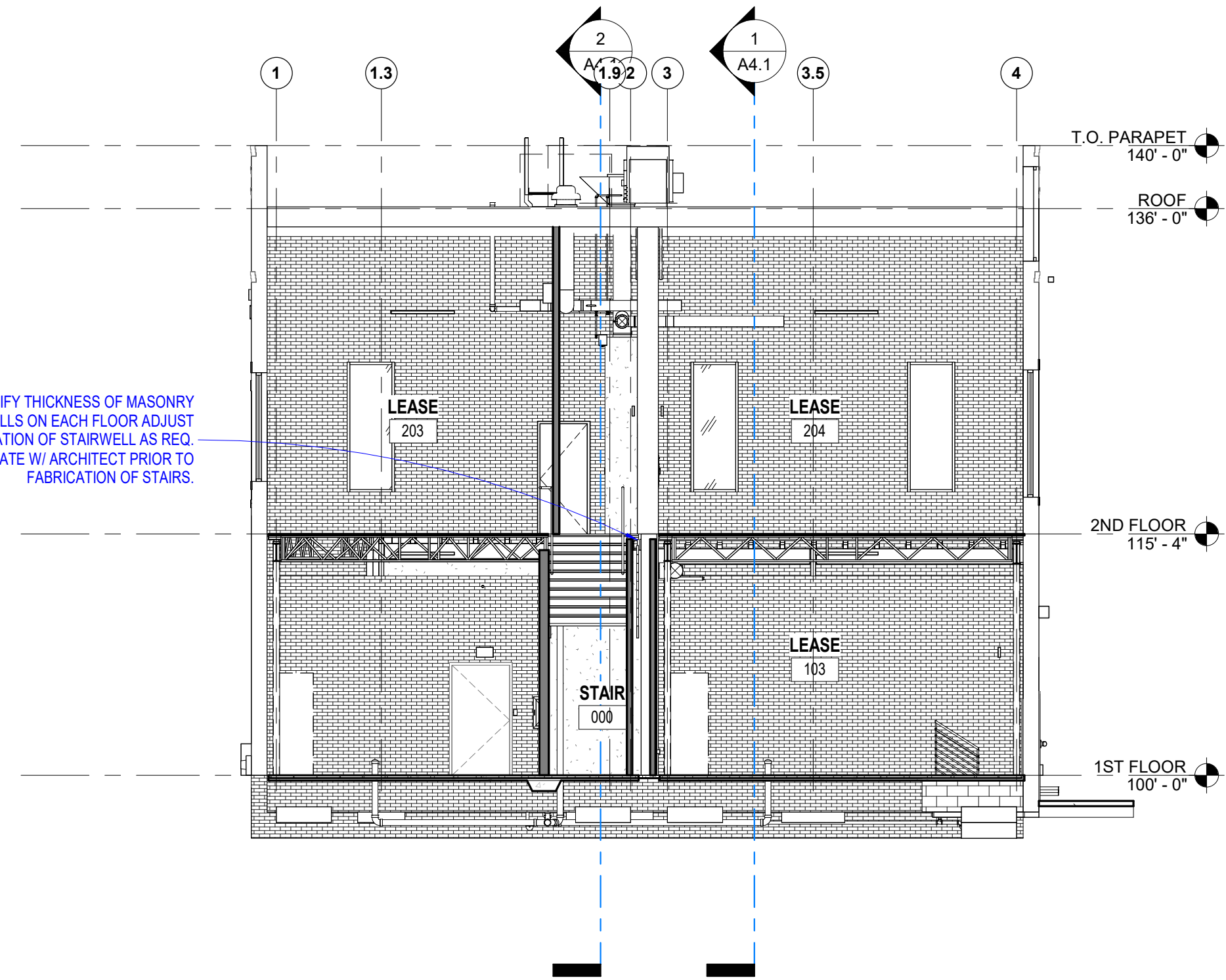
2 BSNS-02
1/8" = 1'-0"



3 BSWE-01

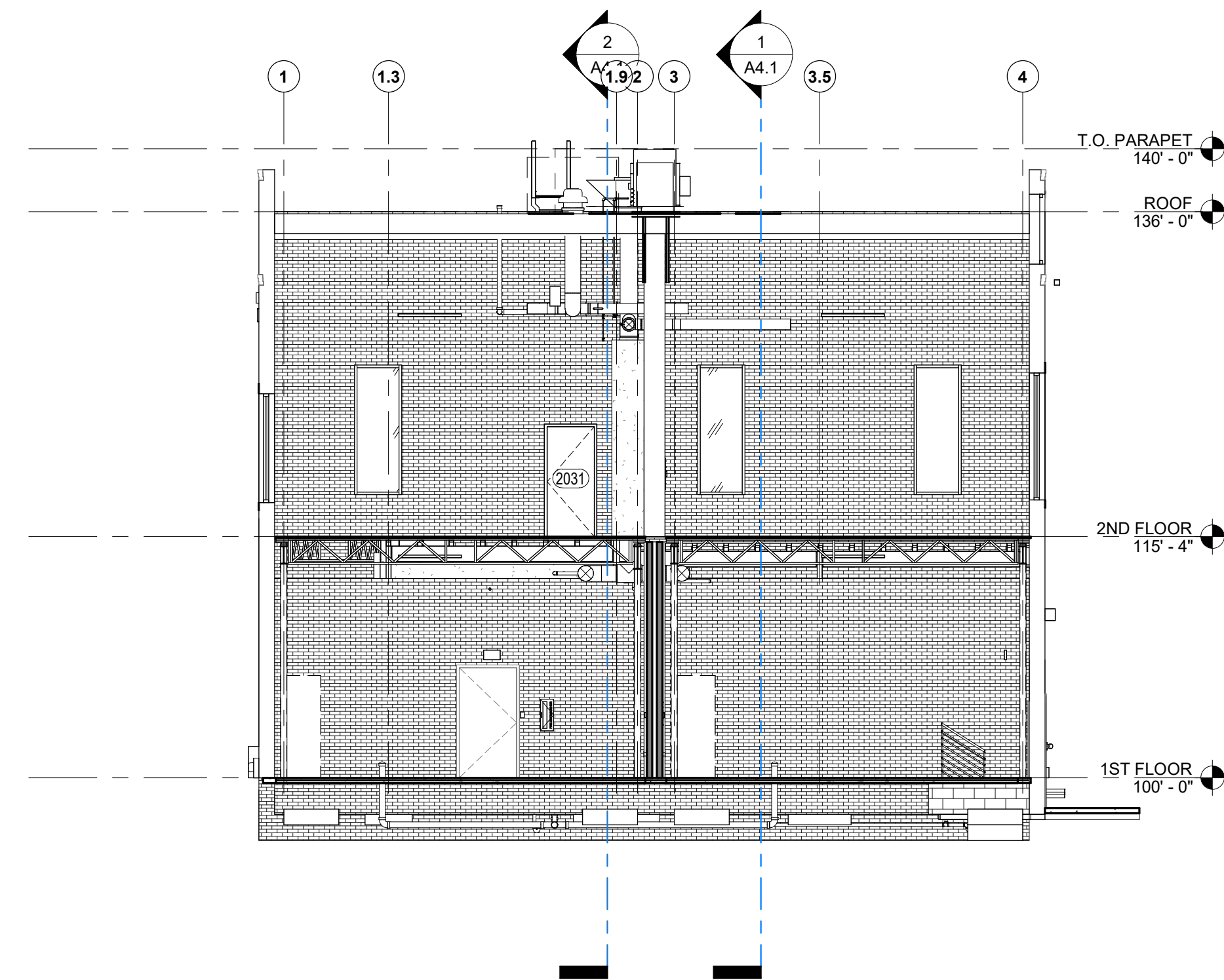


4 BSWE-02

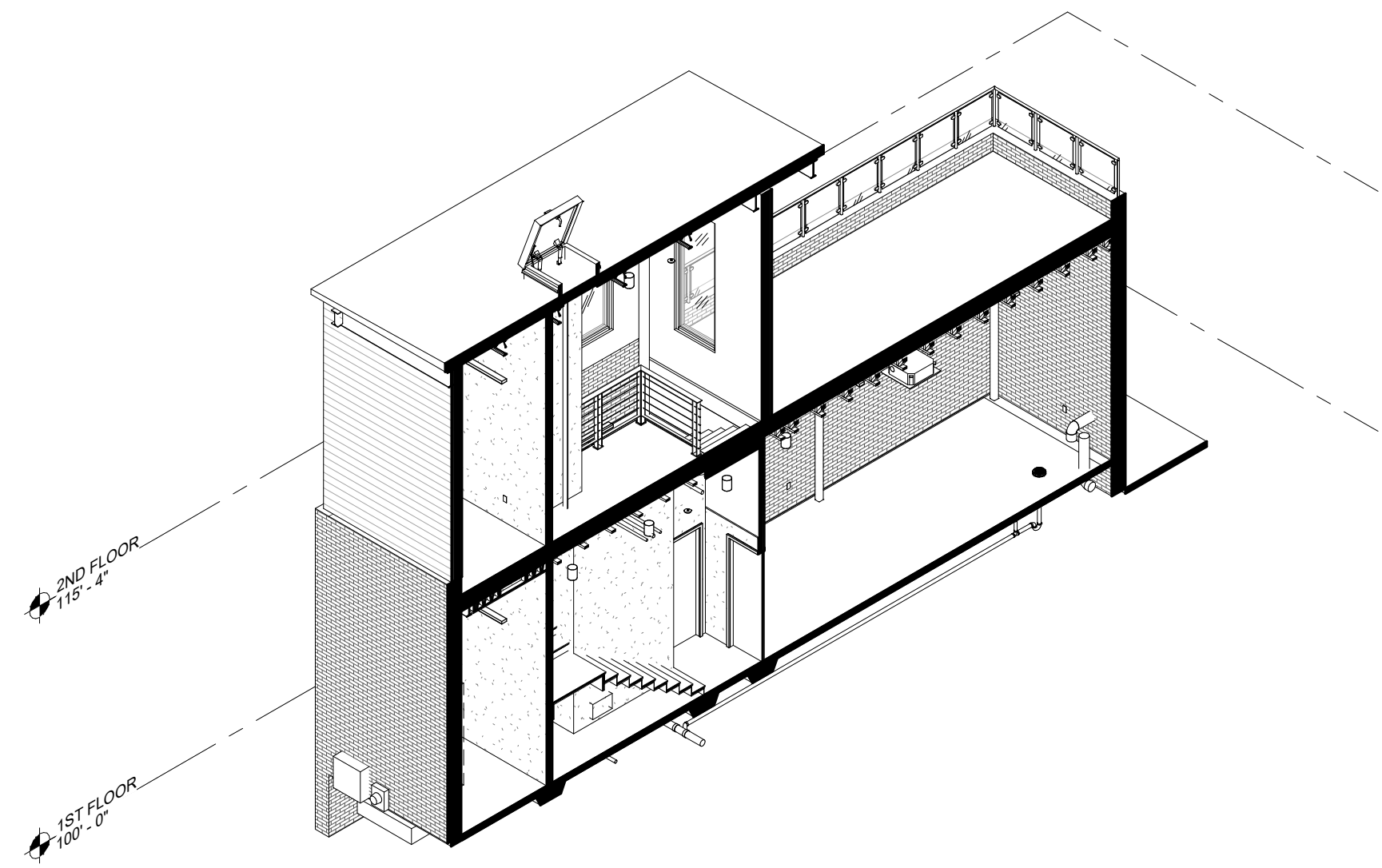


1 BSWE-01
1/8" = 1'-0"

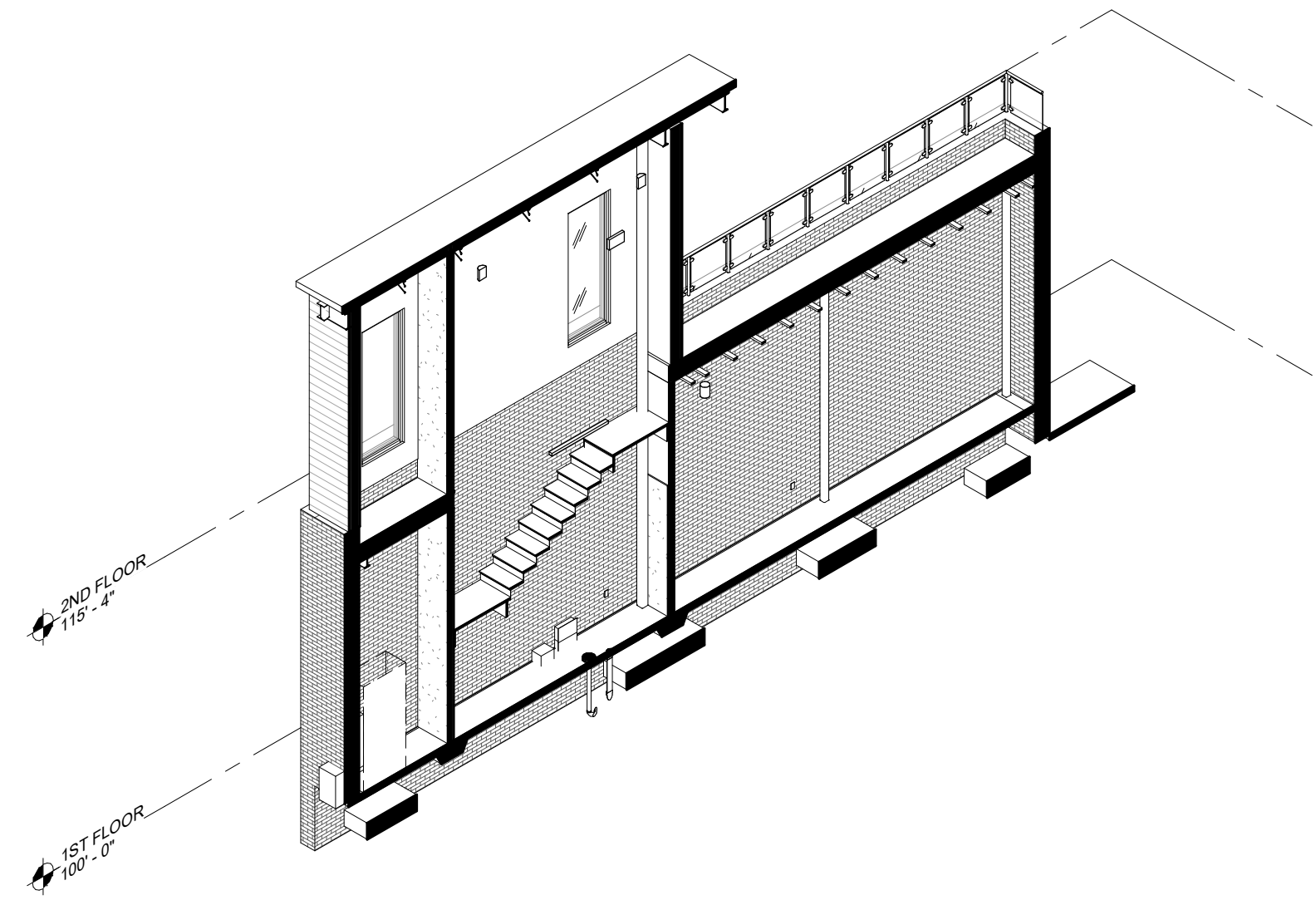
FIELD VERIFY THICKNESS OF MASONRY
BEARING WALLS ON EACH FLOOR ADJUST
LOCATION OF STAIRWELL AS REQ.
COORDINATE W/ ARCHITECT PRIOR TO
FABRICATION OF STAIRS.



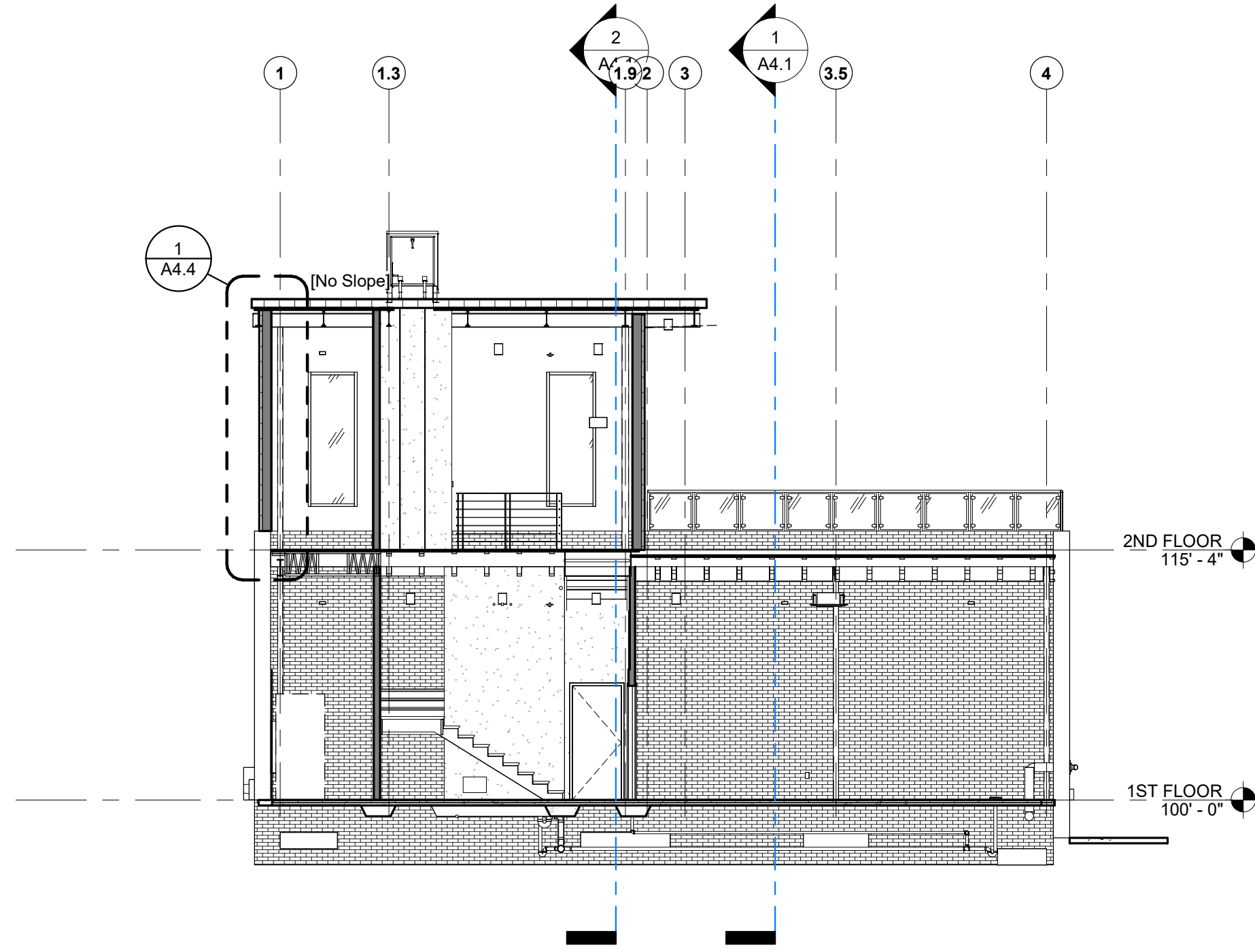
2 BSWE-02
1/8" = 1'-0"



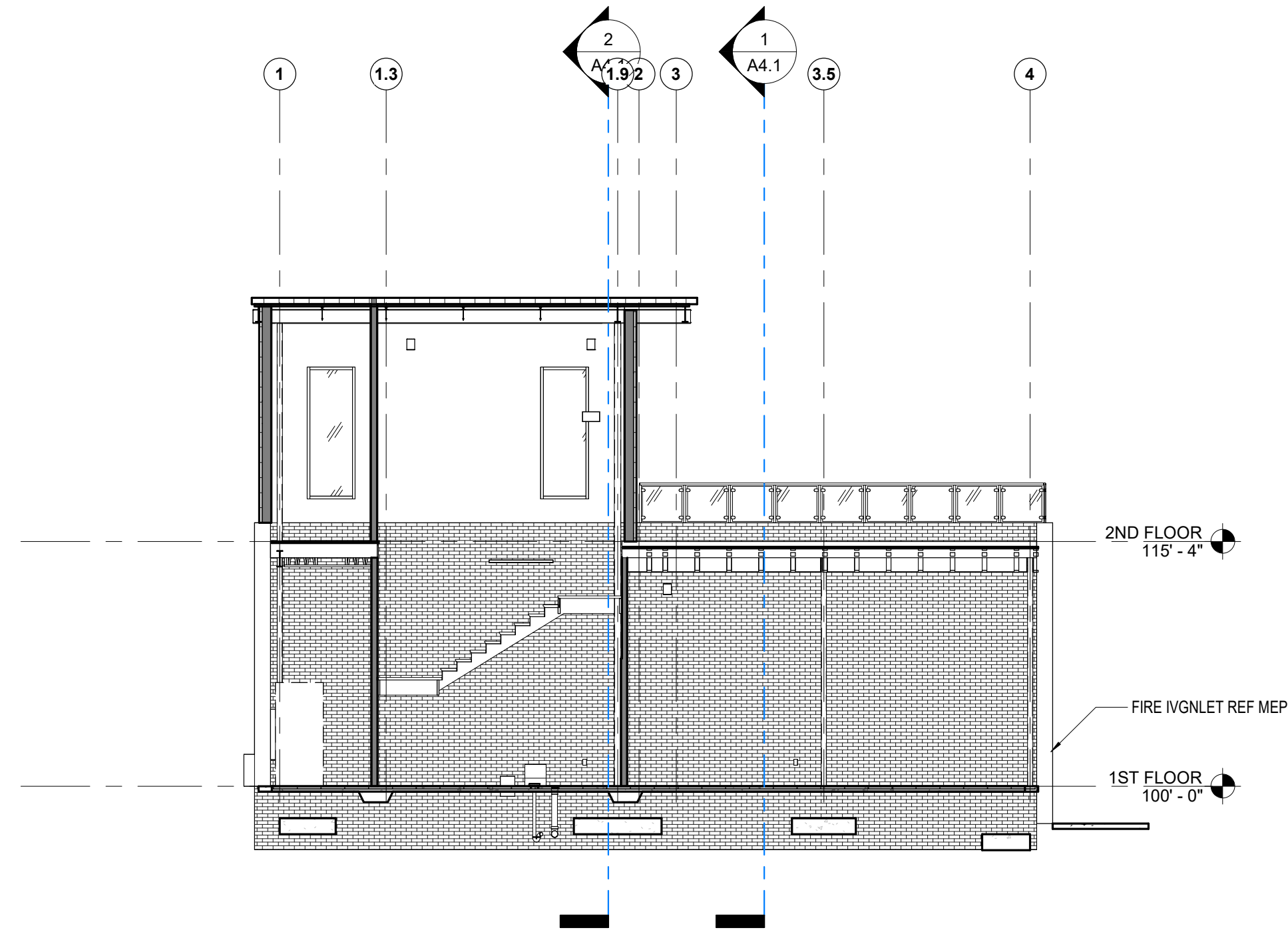
3 BSWE-03



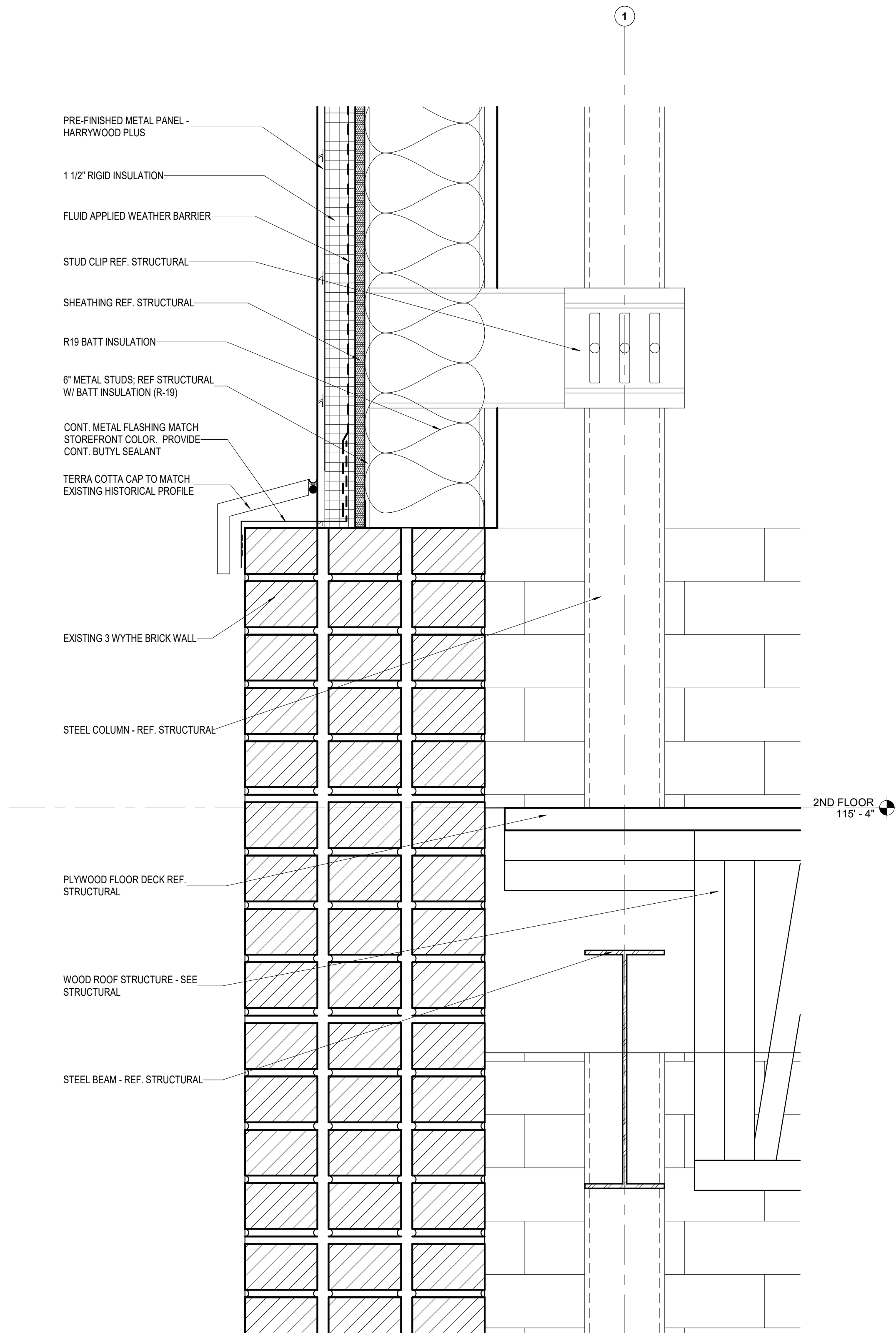
4 BSWE-04



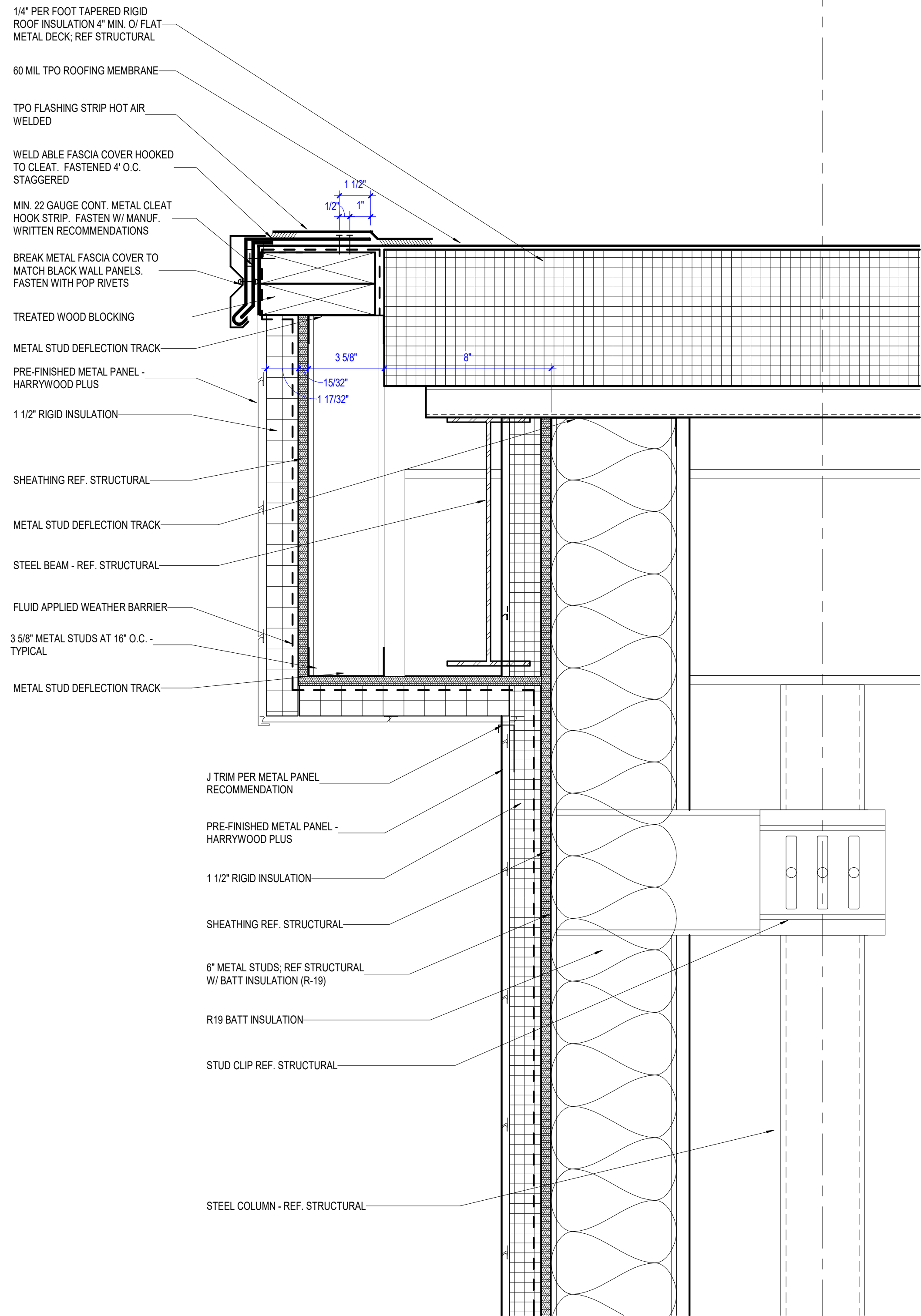
1 BSWE-03
1/8" = 1'-0"



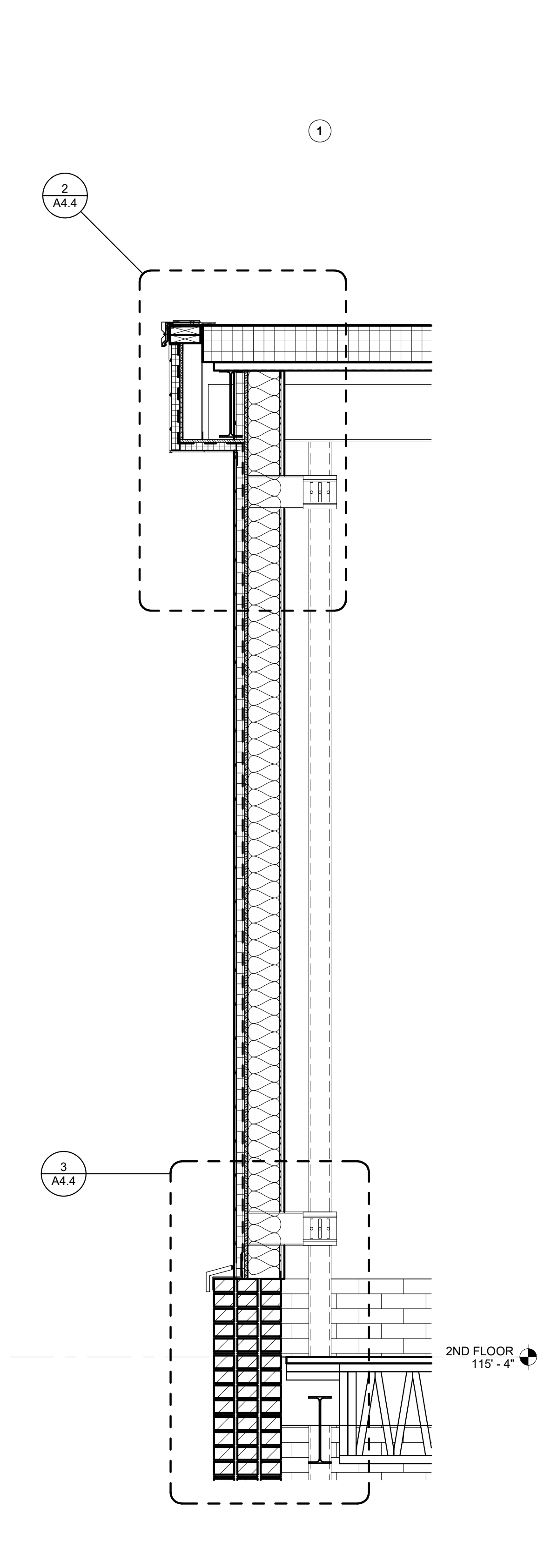
2 BSWE-04
1/8" = 1'-0"



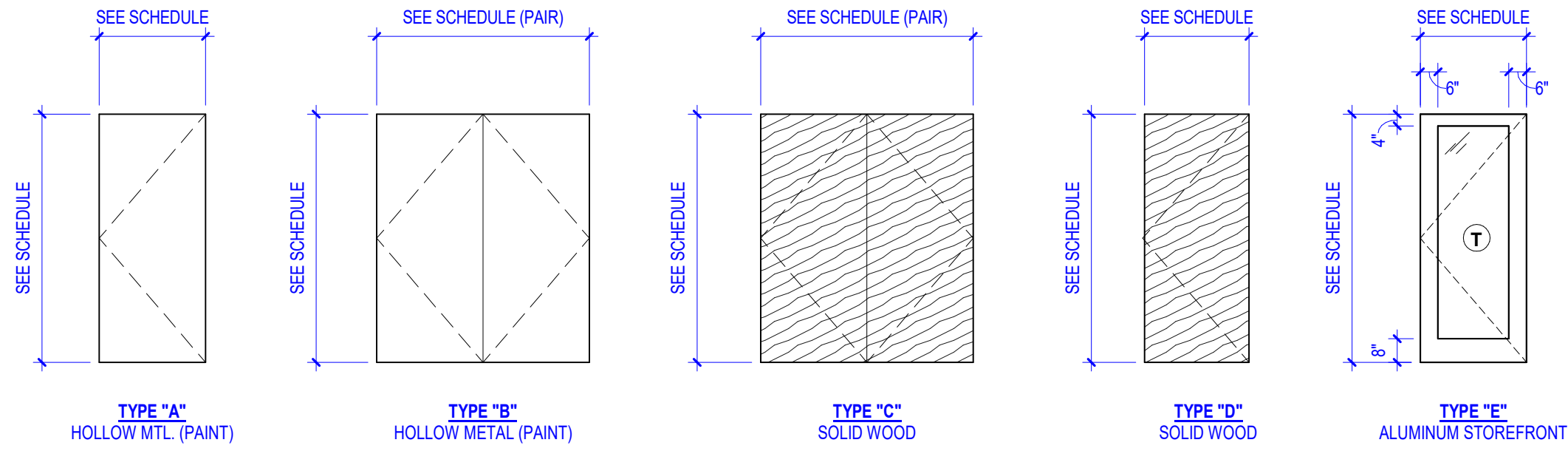
3 WS-BSWE-03.1.2 - ENLARGED DETAIL
3" = 1'-0"



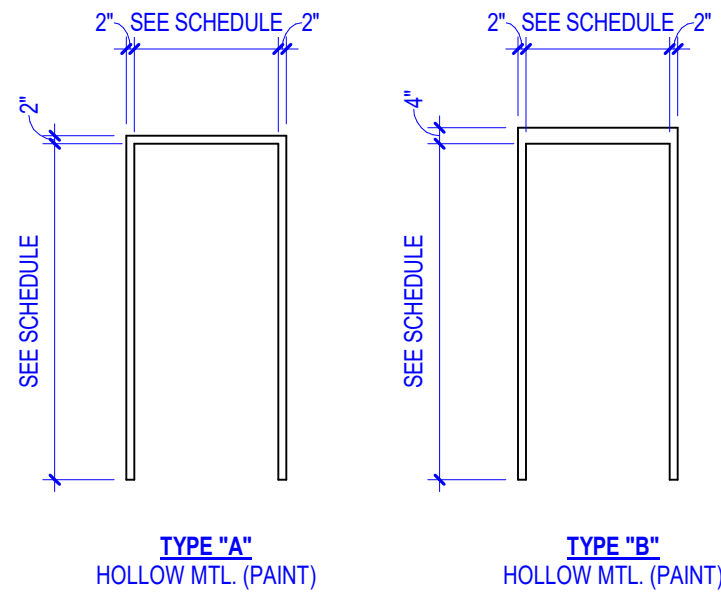
2 WS-BSWE-03.1.1 - ENLARGED DETAIL
3" = 1'-0"



1 WS-BSWE-03.1
3/4" = 1'-0"



DOOR TYPE ELEVATIONS (NOT ALL TYPES USED)



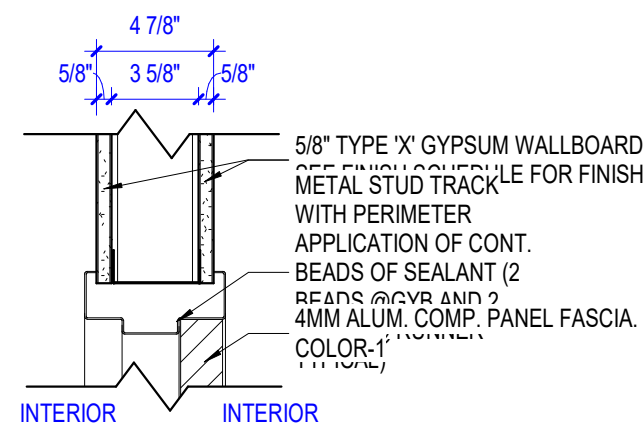
FRAME TYPE ELEVATIONS

DOOR & FRAME ELEVATION(S)
1/4" = 1'-0"

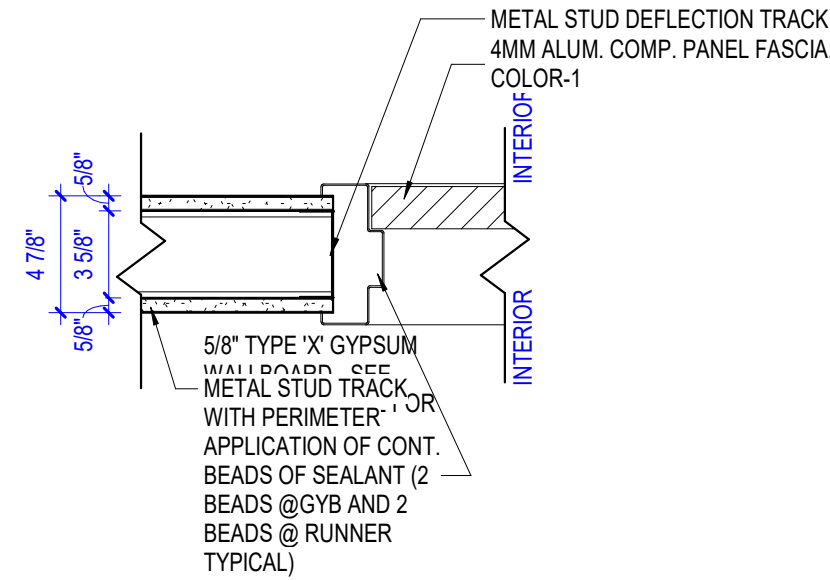
GLAZING LEGEND

(T) 1/4" TEMPERED GLASS

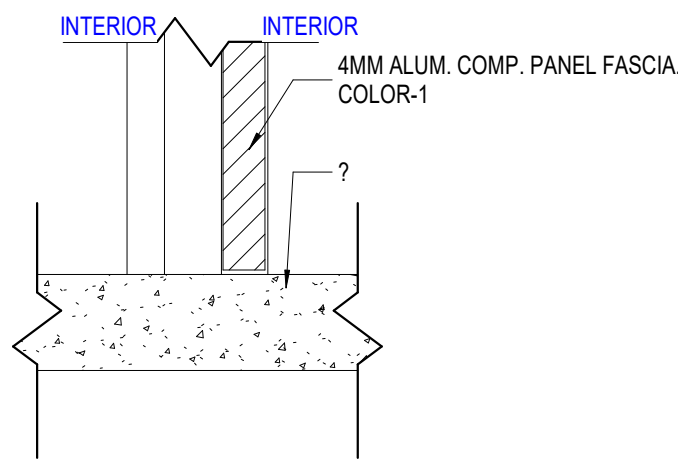
DOOR SCHEDULE									
DOOR #	DOOR				FRAME		FIRE RATING	HARDWARE	COMMENTS
	WIDTH	HEIGHT	FINISH	TYPE	MATERIAL	TYPE			
0001	2' - 10 7/16"	7' - 4"	ANNODIZED	E	SF	SF	-	ENTRY SF	
1011	3' - 0"	7' - 4"	ANNODIZED	E	SF	SF	-		
1021	3' - 0"	7' - 0"	PAINT	A	HM	A	-	STOREROOM	
1031	3' - 0"	7' - 4"	ANNODIZED	E	SF	SF	-		
1041	3' - 0"	7' - 0"	PAINT	A	HM	A	-	STOREROOM	
1051	3' - 0"	7' - 0"	PAINT	A	HM	A	-	STAIR EGRESS	ALTERNATE FOB
2011	3' - 0"	7' - 0"	PAINT	A	HM	A	-	STOREROOM	
2021	3' - 0"	7' - 0"	ANNODIZED	E	SF	SF	-	ENTRY SF	
2031	3' - 0"	7' - 0"	PAINT	A	HM	B	-	EGRESS	



(15) TYP HEAD DETAIL INTERIOR GYP
1 1/2" = 1'-0"

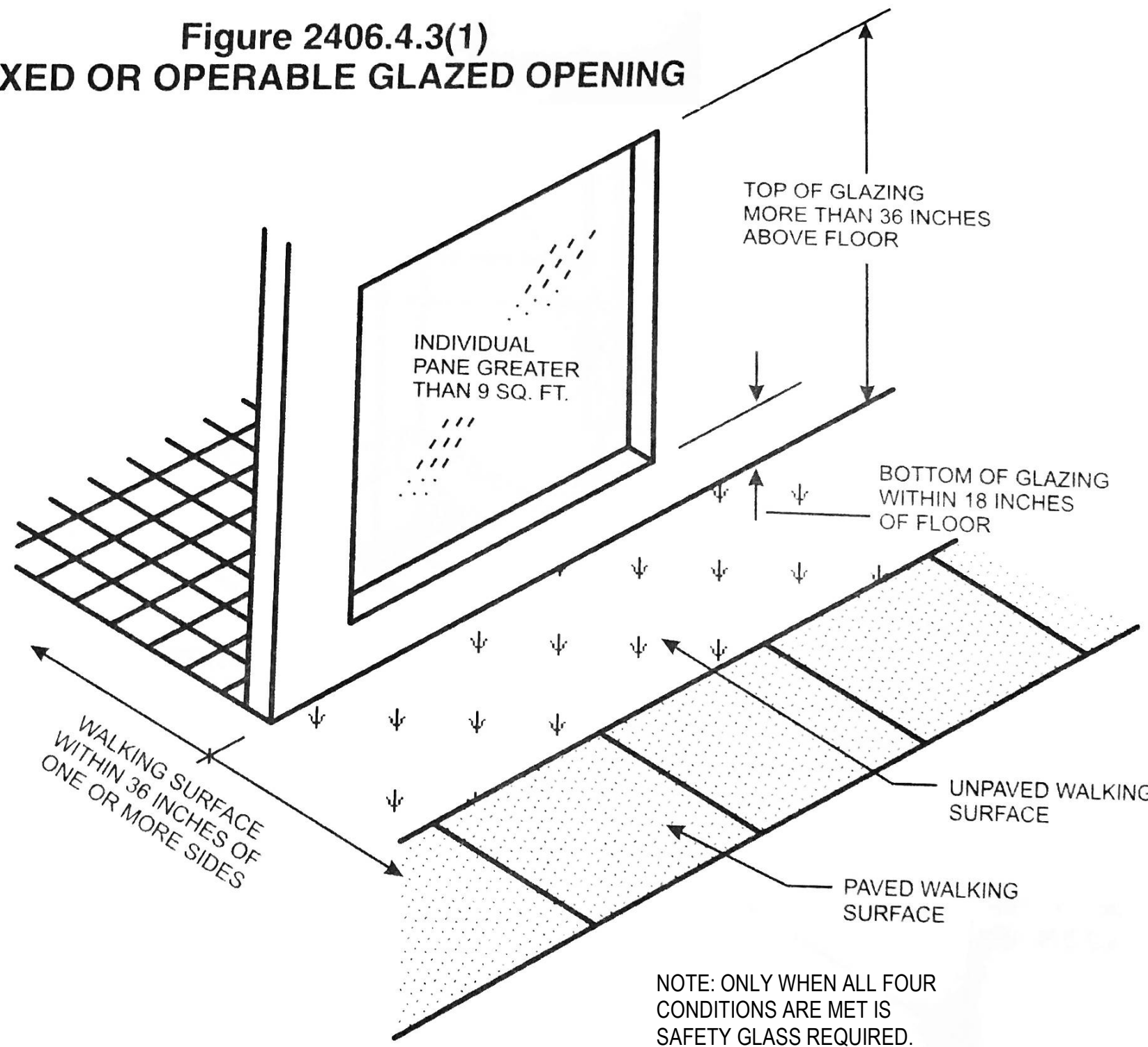


(16) TYP JAMB DETAIL INTERIOR GYP
1 1/2" = 1'-0"



(17) SILL DETAIL
1 1/2" = 1'-0"

Figure 2406.4.3(1)
FIXED OR OPERABLE GLAZED OPENING



IBC 2012 SAFETY GLAZING LOCATIONS @ WINDOWS
1/2" = 1'-0"

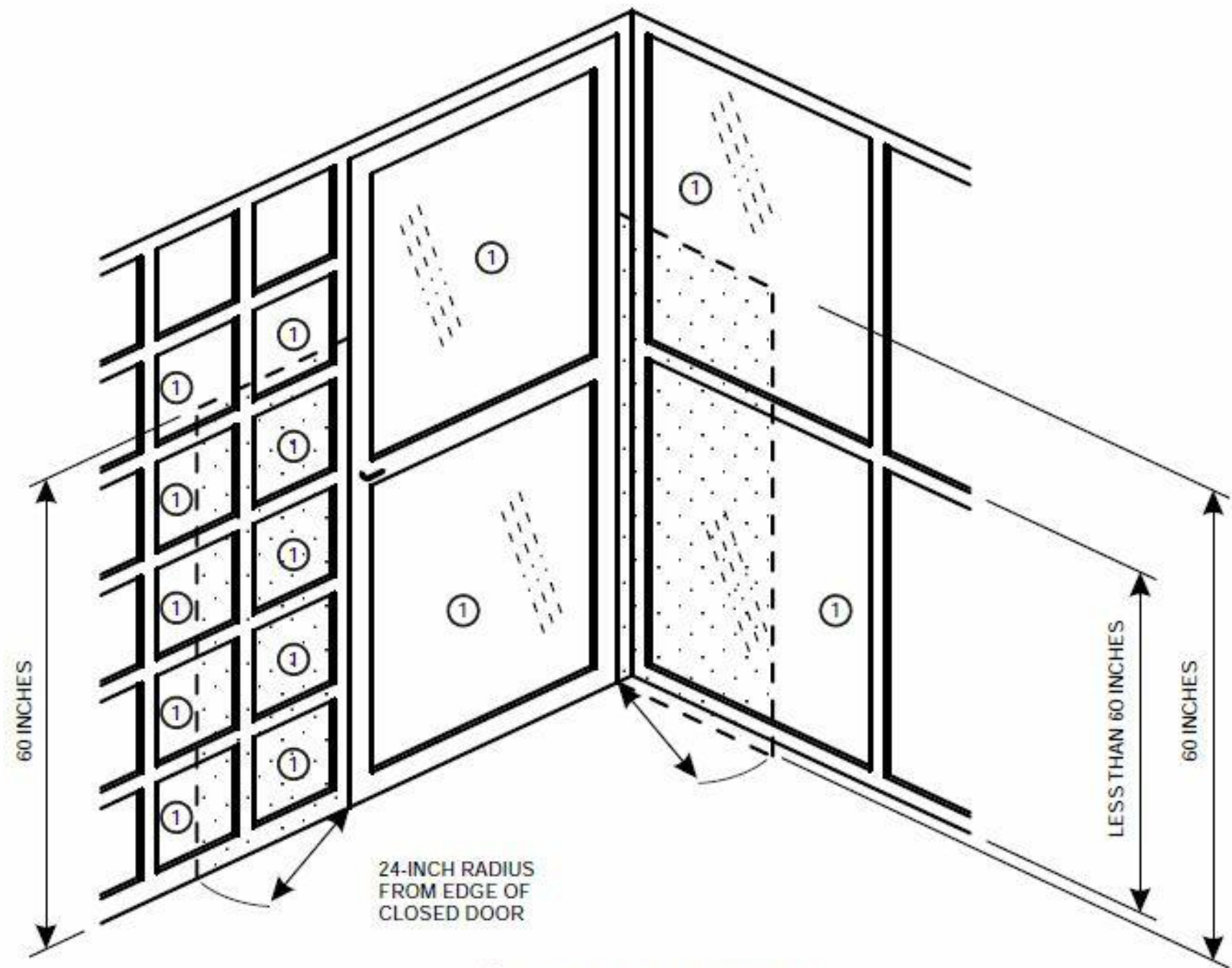
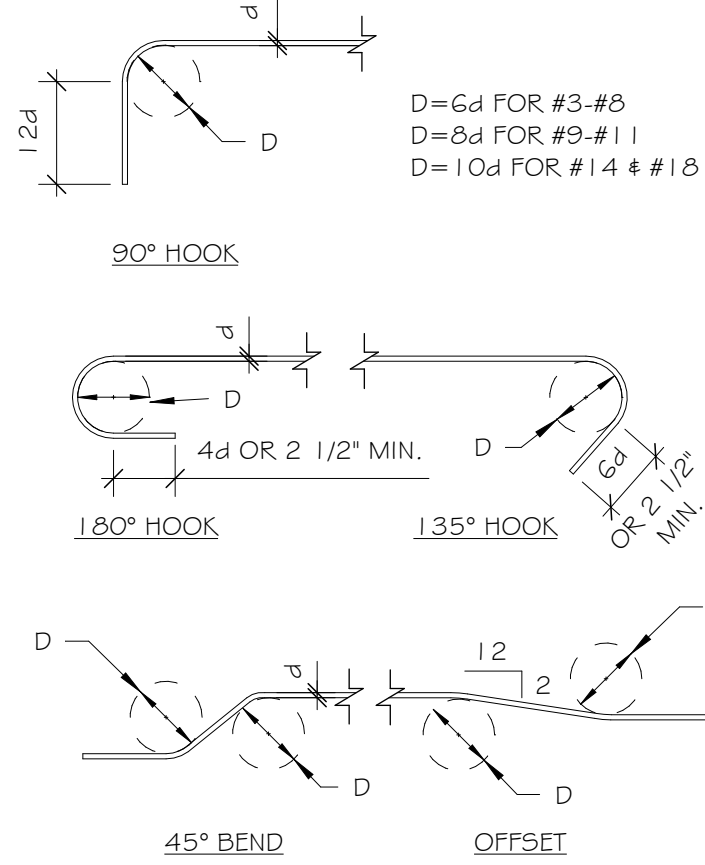
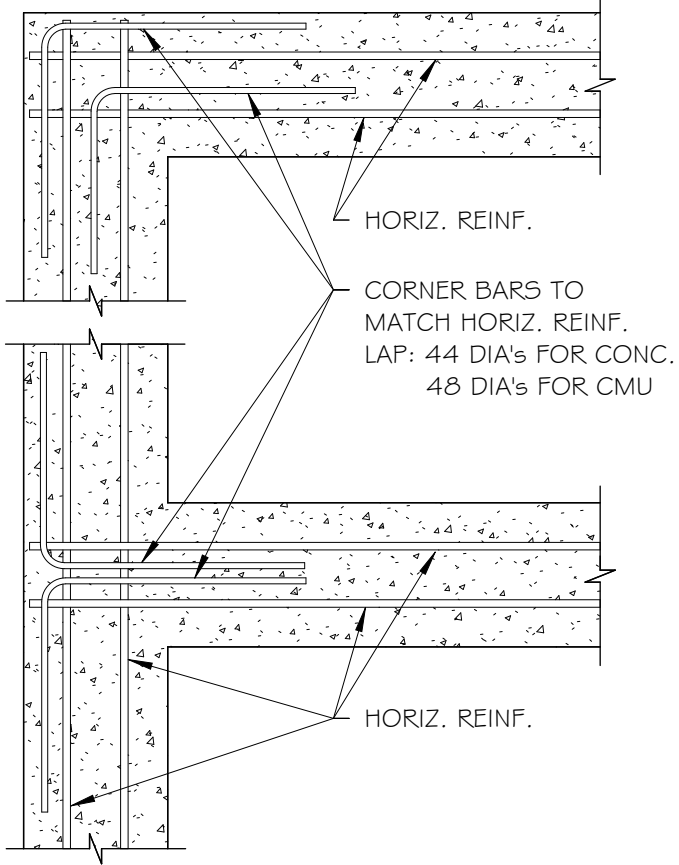


Figure 2406.4(3)
SAFETY GLAZING IN CLOSE PROXIMITY TO DOORS

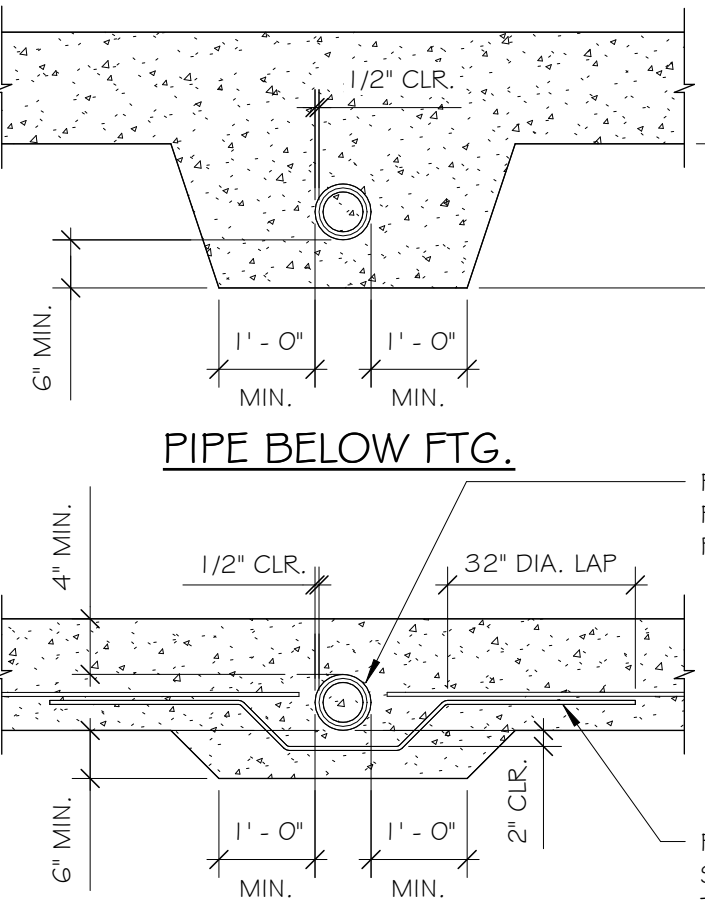
IBC 2012 SAFETY GLAZING LOCATIONS @ DOORS
1/2" = 1'-0"



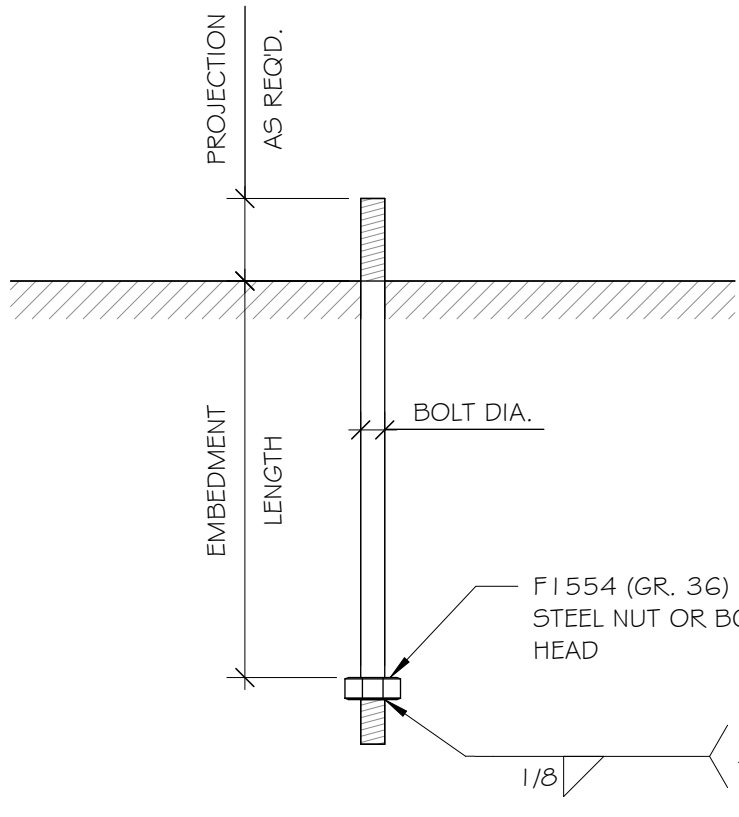
1 TYP. RE-BAR BEND DETAIL
3/4" = 1'-0"



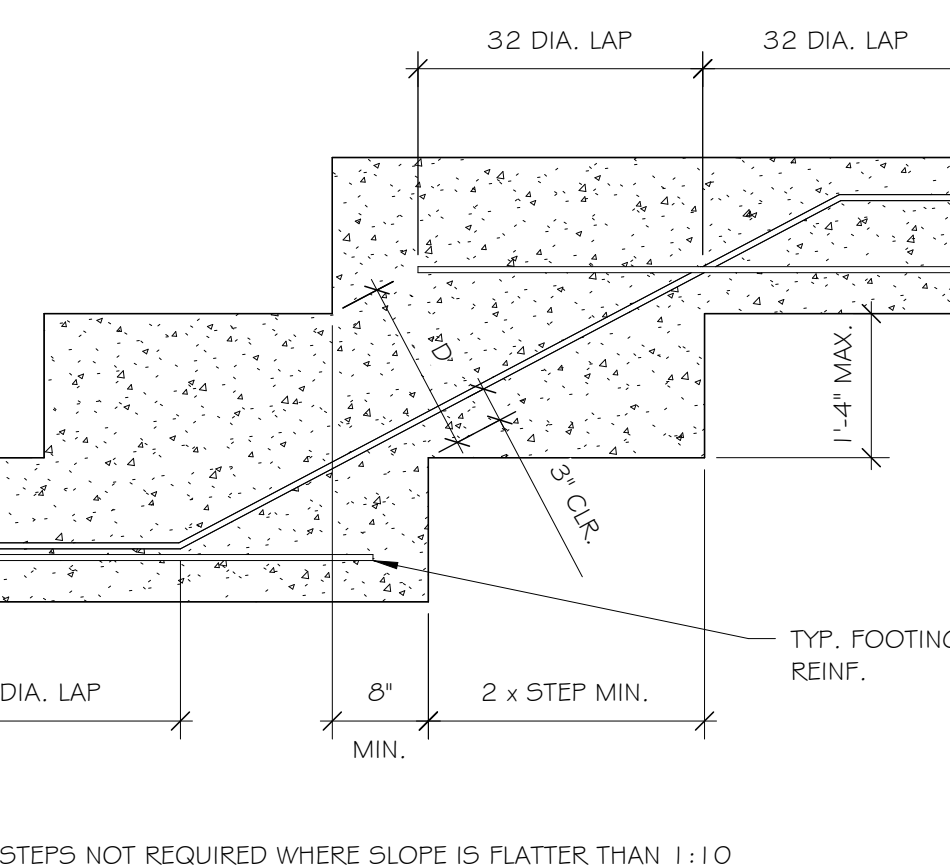
2 TYP. CORNER BARS FOR WALLS AND FTGS.
3/4" = 1'-0"



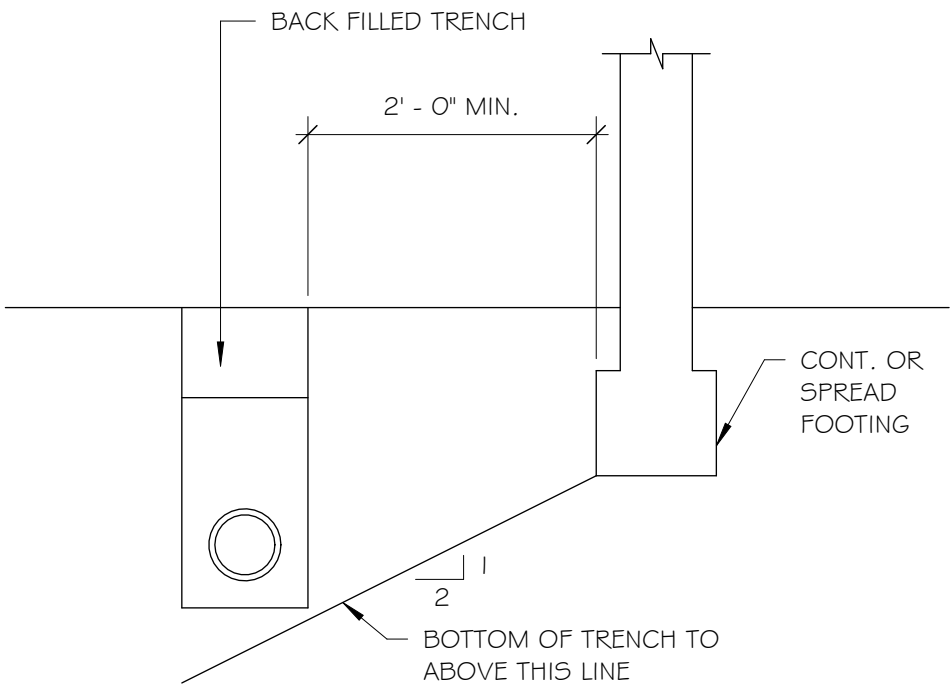
4 PIPE PERPENDICULAR TO FTG.
1/2" = 1'-0"



5 TYPICAL ANCHOR BOLT
3/4" = 1'-0"



3 TYPICAL STEPPED FOOTING
3/4" = 1'-0"



6 TRENCHES PARALLEL TO FTG.
3/4" = 1'-0"

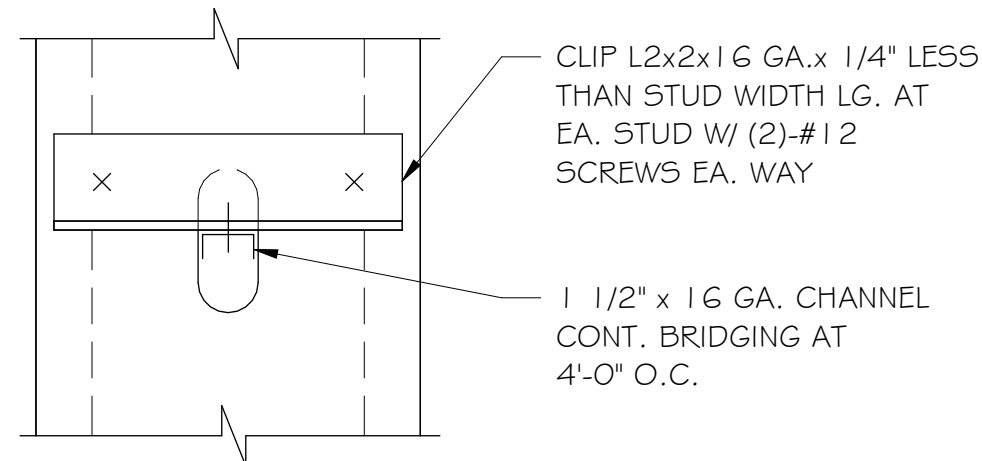
SPECIAL INSPECTIONS

STRUCTURAL SPECIAL INSPECTIONS ARE REQUIRED PER SECTION 1705 OF THE 2021 ARKANSAS FIRE PREVENTION CODE. REFER TO SHEETS S8 AND S9 FOR THE FOLLOWING INFORMATION REGARDING THE REQUIREMENTS OF SPECIAL INSPECTIONS:

- THE MATERIALS, SYSTEMS, COMPONENTS AND WORK REQUIRED TO HAVE SPECIAL INSPECTION OR TESTING BY THE BUILDING OFFICIAL OR BY THE REGISTERED DESIGN PROFESSIONAL RESPONSIBLE FOR EACH PORTION OF THE WORK.
- THE TYPE AND EXTENT OF EACH SPECIAL INSPECTION.
- THE TYPE AND EXTENT OF EACH TEST.
- ADDITIONAL REQUIREMENTS FOR SPECIAL INSPECTION OR TESTING FOR WIND OR SEISMIC RESISTANCE AS SPECIFIED IN SECTIONS 1705.10, 1705.11 AND 1705.12. (WHEN APPLICABLE)
- FOR EACH TYPE OF SPECIAL INSPECTION, IDENTIFICATION AS TO WHETHER IS WILL BE CONTINUOUS SPECIAL INSPECTION OR PERIODIC SPECIAL INSPECTION.

JLA ENGINEERS INC. DOES NOT PERFORM SPECIAL INSPECTIONS.

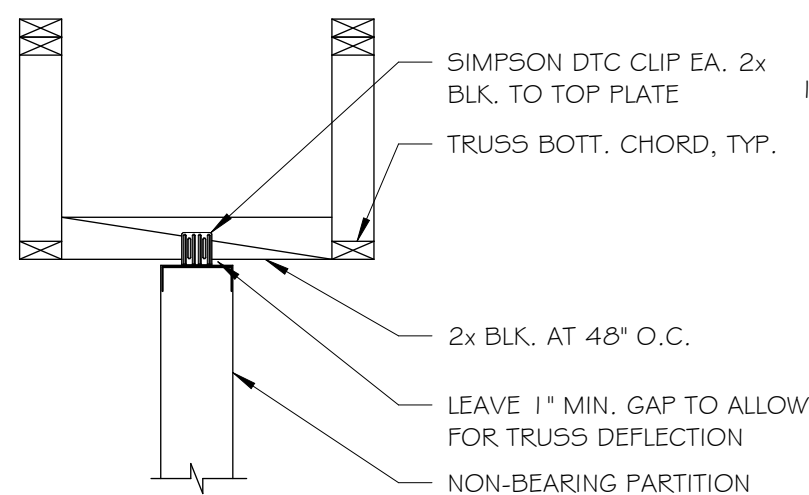
7 SPECIAL INSPECTIONS
1/8" = 1'-0"



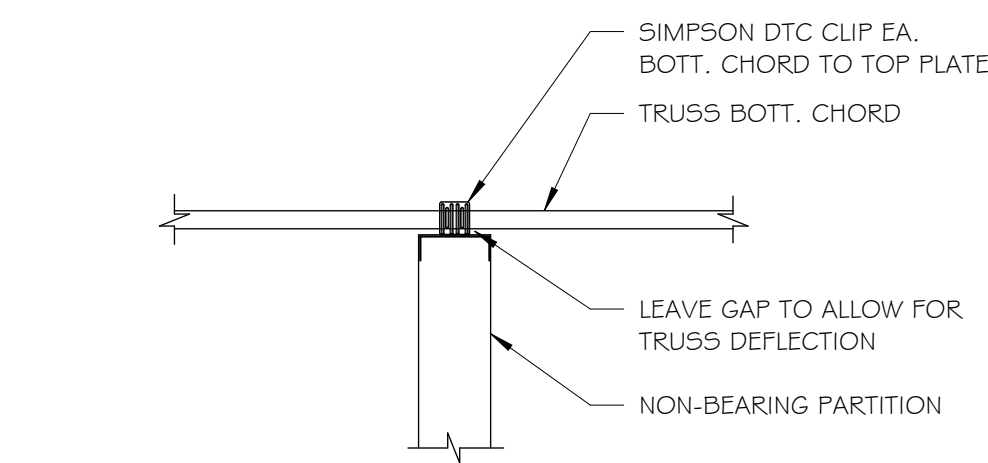
CHANNEL GIRT BRACING DETAIL

PROVIDE MECHANICAL BRIDGING PER DTL. ABOVE FOR ALL MTL. STUD WALLS. BRACE AT 4'-0" O.C. MAX. OR AT WALL MID-HEIGHT FOR WALLS 10'-0" TALL OR LESS

8 METAL STUD WALL DETAIL
1 1/2" = 1'-0"



9 TYP. NON-BEARING PARTITION PARALLEL
3/4" = 1'-0"



10 TYP. NON-BEARING PARTITION PERP.
3/4" = 1'-0"

STRUCTURAL NOTES

- ALL ELEVATIONS ARE GIVEN WITH REFERENCE TO FINISH FLOOR DATUM 1'00'-0". (VERIFY IN FIELD)
 - ALL STRUCTURAL FILL SHALL BE APPROVED MATERIAL PLACED IN 9" LOOSE LIFTS AND COMPACTED TO 98% OF THE MAXIMUM DRY DENSITY PER STANDARD PROCTOR METHODS (ASTM D-698).
 - FOOTINGS ARE TO BEAR ON LOW EXPANSIVE NATIVE SOIL OR STRUCTURAL FILL. ALL EXCAVATIONS SHALL BE CLEAN CUT AND SQUARE.
 - FOOTING ELEVATIONS NOTED ARE FOR BIDDING PURPOSES AND SHALL BE LOWERED AS NECESSARY TO REACH THE SPECIFIED BEARING STRATA AND COVER.
 - THE FOUNDATION IS DESIGNED FOR AN ASSUMED ALLOWABLE BEARING CAPACITY OF 1500 PSF FOR CONTINUOUS FOOTINGS AND 1500 PSF FOR ISOLATED COLUMN FOOTINGS. PROVIDE 24" MIN. FROM FINISH GRADE OR PAVING TO BOTTOM OF FOOTING AT EXTERIOR CONDITIONS. FOOTING EXCAVATIONS SHALL BE APPROVED BY OWNER'S GEOTECHNICAL CONSULTANT PRIOR TO PLACING RE-BAR.
 - CONCRETE SHALL HAVE A 28 DAY STRENGTH. MAXIMUM SLUMP AND MAXIMUM AGGREGATE SIZE AS FOLLOWS:

FOOTINGS AND STEMWALLS: 3000 PSI - 6" SLUMP - 1 1/2" AGG.
INTERIOR SLAB: 3000 PSI - 4" SLUMP - 1" AGG.
EXTERIOR SLAB: 3500 PSI - 4" SLUMP - 1" AGG.
- ALL CONCRETE EXPOSED TO FREEZE/THAW SHALL HAVE APPROX. 5% AIR ENTRAINMENT. REINF. STEEL SHALL CONFORM TO GRADE 60 ASTM A-615. LAP ALL CONCRETE REINFORCING 44 BAR DIAMETERS, 12" MINIMUM, UNLESS NOTED OTHERWISE. LAP ALL UNDER-SLAB VAPOR BARRIER SHEETS A MINIMUM OF 6" AT ALL SPLICES.
- VERIFY ALL DIMENSIONS, SLOPES, DEPRESSIONS, EMBEDMENTS ETC. BEFORE PLACING CONCRETE.
 - PROVIDE SLAB CONTROL JOINTS (CJ) WHERE INDICATED ON PLAN. C.J.'s SHALL BE APPROX. 1/4 OF THE SLAB DEPTH AND SHALL BE ONE OF THE FOLLOWING:

A. SAWCUT AS SOON AS POSSIBLE (WITHIN 12 HOURS OF POUR).
B. ZIP CAP TYPE JOINT FORMER.
C. TOOLED JOINTS FOR EXTERIOR SLAB.
- CONST. JOINTS W/ 3/8"x4 1/2"x4 1/2" PNA DIAMOND DOWELS AT 18" O.C. MAY BE SUBSTITUTED FOR ANY CONTROL JOINT AND SHALL BE USED WHERE INDICATED ON THE PLAN.

- STRUCTURAL STEEL SHALL MEET THE FOLLOWING CRITERIA:

WIDE FLANGE SHAPES: ASTM A-992, 50 KSI
SHAPES, BARS AND PLATES: ASTM A-36, 36 KSI
STRUCTURAL PIPE (HSS): ASTM A-500, 42 KSI
STRUCTURAL TUBING (HSS): ASTM A-500, 46 KSI

ALL BOLTED STEEL CONNECTIONS SHALL BE MADE USING ASTM A-325N H.S. BOLTS UNLESS NOTED OTHERWISE. CONCRETE ANCHOR BOLTS SHALL BE F1554 (GR. 36) UNLESS NOTED OTHERWISE. WELDING SHALL MEET LATEST AWS CODE. E70 ELECTRODES. GROUT BENEATH COLUMN BASE PLATES SHALL BE NON-METALLIC MEETING ASTM C-827, 5000 PSI AT 28 DAYS.

- OPEN WEB JOISTS:
DESIGN, FABRICATION AND ERECTION OF STEEL JOISTS SHALL CONFORM WITH THE LATEST EDITION OF THE STEEL JOIST INSTITUTE SPECIFICATION.
USE "SPECIAL" JOISTS AT ROOF TOP UNITS AND OTHER LOCATIONS WHERE ADDITIONAL LOADS ARE SHOWN ON THE FRAMING PLAN. REFER TO FRAMING PLAN FOR WEIGHTS AND LOCATIONS. ROOF TOP UNIT WEIGHTS AND WEIGHTS NOTED ON FRAMING PLAN MUST BE ADDED TO THE TOTAL LOAD ON THE JOISTS. COORDINATE WITH MECHANICAL AND ARCH. DRAWINGS. WELD EACH JOIST TO BEAM, JOIST GIRDER OR WELD PLATE WITH A 1/8" FILLET WELD EACH SIDE OF JOIST. WELD LENGTH SHALL BE A MINIMUM OF 2" UNLESS NOTED OTHERWISE.
USE BRIDGING AS INDICATED ON THE DRAWINGS OR AS REQUIRED BY THE STEEL JOIST INSTITUTE. CONTINUE ALL BRIDGING TO ROLLED STEEL SHAPES AND/OR WALLS WHICH ARE PARALLEL TO THE JOISTS AND ANCHOR IN ACCORDANCE WITH STEEL JOIST INSTITUTE SPECIFICATIONS. ALL BRIDGING SHALL BE SECURED TO TOP AND BOTTOM OF ALL JOISTS AND BEAMS AND SHALL BE IN ACCORDANCE WITH STEEL JOIST INSTITUTE SPECIFICATIONS. JOISTS SHALL BEAR 4" MINIMUM ON MASONRY AND 2-1/2" MINIMUM ON STEEL. PROVIDE ANCHORAGE AT MASONRY BEARING IN ACCORDANCE WITH STEEL JOIST INSTITUTE...

- PRE-ENGINEERED WOOD FLOOR TRUSSES SHALL BE DESIGNED FOR THE FOLLOWING LOADS:

TOP CHORD: DEAD LOAD = 16 PSF
LIVE LOAD = AS NOTED IN DESIGN CRITERIA
BOTTOM CHORD: DEAD LOAD = 9 PSF

WOOD FLOOR TRUSSES SHALL BE DESIGNED FOR THE FOLLOWING DEFLECTION CRITERIA:
LIVE LOAD: 1/480
TOTAL LOAD: 1/360

DEAD LOADS INCLUDE TRUSS SELF WEIGHT. CAMBER TRUSSES FOR 1 1/2" x DEAD LOAD DEFLECTION. SUBMIT TRUSS DESIGN DOCUMENTS, INCLUDING LAYOUT, STAMPED BY AN ARKANSAS P.E. TO ARCHITECT FOR REVIEW PRIOR TO FABRICATION. INSTALL TRUSSES ACCORDING TO MANUFACTURER'S INSTRUCTIONS INCLUDING BRIDGING.

- VERIFY ALL EXISTING DIMENSIONS LOCATED AT EXISTING WALLS OR EXISTING MEMBERS. INSIDE AND OUTSIDE FACE OF WALL TO BE FIELD VERIFIED. VERIFY ALL EXISTING WALL THICKNESSES, MATERIAL, ETC. FIELD VERIFICATION OF ALL DIMENSIONS, ETC. SHALL OCCUR PRIOR TO FABRICATION OF ANY NEW STRUCTURAL BUILDING MATERIALS.

STRUCTURAL NOTES CONT.

- PRE-ENGINEERED WOOD FLOOR TRUSSES (AT PATIO) SHALL BE DESIGNED FOR THE FOLLOWING LOADS:

TOP CHORD: DEAD LOAD = 26 PSF
LIVE LOAD = AS NOTED IN DESIGN CRITERIA
BOTTOM CHORD: DEAD LOAD = 9 PSF

WOOD FLOOR TRUSSES SHALL BE DESIGNED FOR THE FOLLOWING DEFLECTION CRITERIA:
LIVE LOAD: 1/480
TOTAL LOAD: 1/360

DEAD LOADS INCLUDE TRUSS SELF WEIGHT. CAMBER TRUSSES FOR 1 1/2" x DEAD LOAD DEFLECTION. SUBMIT TRUSS DESIGN DOCUMENTS, INCLUDING LAYOUT, STAMPED BY AN ARKANSAS P.E. TO ARCHITECT FOR REVIEW PRIOR TO FABRICATION. INSTALL TRUSSES ACCORDING TO MANUFACTURER'S INSTRUCTIONS INCLUDING BRIDGING.

- ALL COLD-FORMED STEEL FRAMING SHALL BE FABRICATED AND ERECTED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND IN ACCORDANCE WITH THE LATEST EDITION OF "SPECIFICATIONS FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS" BY THE AMERICAN IRON AND STEEL INSTITUTE. STEEL FOR 14, 16, AND 18 GAGE STUDS SHALL HAVE A MINIMUM YIELD STRENGTH OF 50 KSI. STEEL FOR ALL 20 GAGE STUDS, JOISTS, AND FOR ALL GAGE TRACK, ACCESSORIES AND BRIDGING SHALL HAVE A MINIMUM YIELD STRENGTH OF 33 KSI. STEEL SHALL BE GALVANIZED WITH A MINIMUM G-60 COATING.
ALL STUDS SHALL BE SECURELY SEATED FOR FULL END BEARING ON TOP AND BOTTOM TRACK. UNLESS NOTED OTHERWISE, PROVIDE DOUBLE STUDS AT ALL JAMBS, CORNERS AND INTERSECTIONS. BRIDGING SHALL BE INSTALLED PER RECOMMENDATIONS WITH THE FOLLOWING MINIMUM REQUIREMENTS: PROVIDE BRIDGING AT MID-HEIGHT FOR WALLS LESS THAN OR EQUAL TO 10'-0" HIGH, AND AND 4'-0" O.C. MAXIMUM FOR WALLS GREATER THAN 10'-0" HIGH. IN ADDITION, BRIDGING SHALL BE PROVIDED AT ROOF LINES AND ELSEWHERE AS NOTED ON THE DRAWINGS. SOLID BLOCKING SHALL BE INSTALLED IN LIEU OF BRIDGING WHERE NOTED ON THE DRAWINGS.

- STEEL DECKING:
SOUTH 10' ROOF SHALL BE 1 1/2" x 22 GAGE TYPE B PAINTED. CONNECT TO ALL SUPPORTS W/ 5/8" DIA. PUDDLE WELDS AT 6" O.C. (6" O.C. AT ALL BOUNDARY ANGLES) (36/7 PATTERN). CONNECT SIDELAPS W/ (2)-#10 TKS PER SPAN.

- SIMPSON STRONG-TIE PRODUCTS AND HILTI HIT-HY PRODUCTS (OR EQUIVALENT EQUAL) SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS.

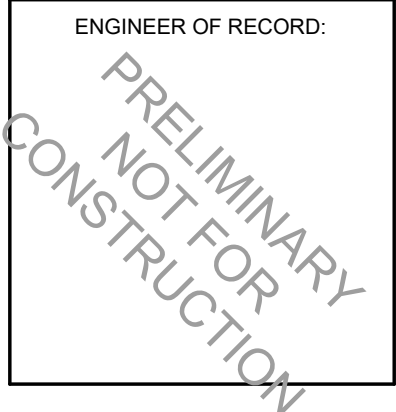
CODE:	2021 ARKANSAS FIRE PREVENTION CODE
NEW 10' ROOF LIVE LOAD:	20 PSF
NEW 10' ROOF DEAD LOAD:	20 PSF
NEW SECOND FLOOR LIVE LOAD:	50 PSF
NEW SECOND FLOOR LIVE LOAD (CORRIDOR):	80 PSF
NEW SECOND FLOOR DEAD LOAD (MAIN):	25 PSF
NEW SECOND FLOOR LIVE LOAD (PATIO):	75 PSF
NEW SECOND FLOOR DEAD LOAD (PATIO):	35 PSF

SNOW LOAD	
GROUND SNOW LOAD, Pg:	20 PSF
FLAT ROOF SNOW LOAD, Pf:	14 PSF
SNOW EXPOSURE FACTOR, Ce:	1.0
SNOW LOAD IMPORTANCE FACTOR, Is:	1.0
THERMAL FACTOR, Ct:	1.0
DESIGN SNOW LOAD:	20 PSF

WIND LOAD	
DESIGN WIND SPEED, Vult:	107 MPH
DESIGN WIND SPEED, Vasd:	90 MPH
RISK CATEGORY:	II
WIND EXPOSURE CATEGORY:	C
INTERNAL PRESSURE COEFF.: COMPONENTS & CLADDING (ASD):	+0.18, -0.18 20.4 PSF

SEISMIC LOAD	
RISK CATEGORY:	II
IMPORTANCE FACTOR, Ie:	1.00
MAPPED SPECTRAL RESPONSE COEFF.:	Ss=0.159, S1=0.091
DESIGN SPECTRAL RESPONSE COEFF.:	Sds=0.169, Sd1=0.146
SITE CLASS:	D (UNKNOWN)
DESIGN CATEGORY:	C
BASIC SEISMIC FORCE RESISTING SYSTEM:	LT, FRAME WALLS W/ WOOD SHEAR PANELS
DESIGN BASE SHEAR:	V=0.0242W
SEISMIC RESPONSE COEFF., C:	0.0242
RESPONSE MODIFICATION COEFF., R:	7.0
ANALYSIS PROCEDURE:	EQUIV. LATERAL FORCE

THE NEW SECOND FLOOR FRAMING, NEW SOUTH 10' ROOF, AND NEW SECOND FLOOR SOUTH PATIO DESIGNS COMPLY WITH THE ARKANSAS SEISMIC STANDARDS.



REVISION		
NO.	ISSUE	DATE



UNION BLOCK BUILDING

124 W WALNUT STR
ROGERS, ARKANSAS 72756

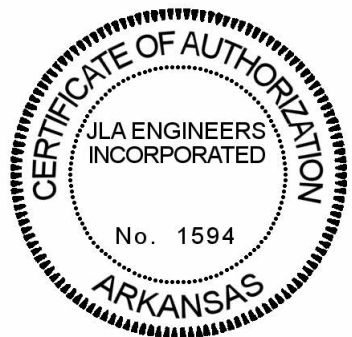
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CHECKED BY:	LCG

PROJECT #:	25-042
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DATE:	1/30/2026
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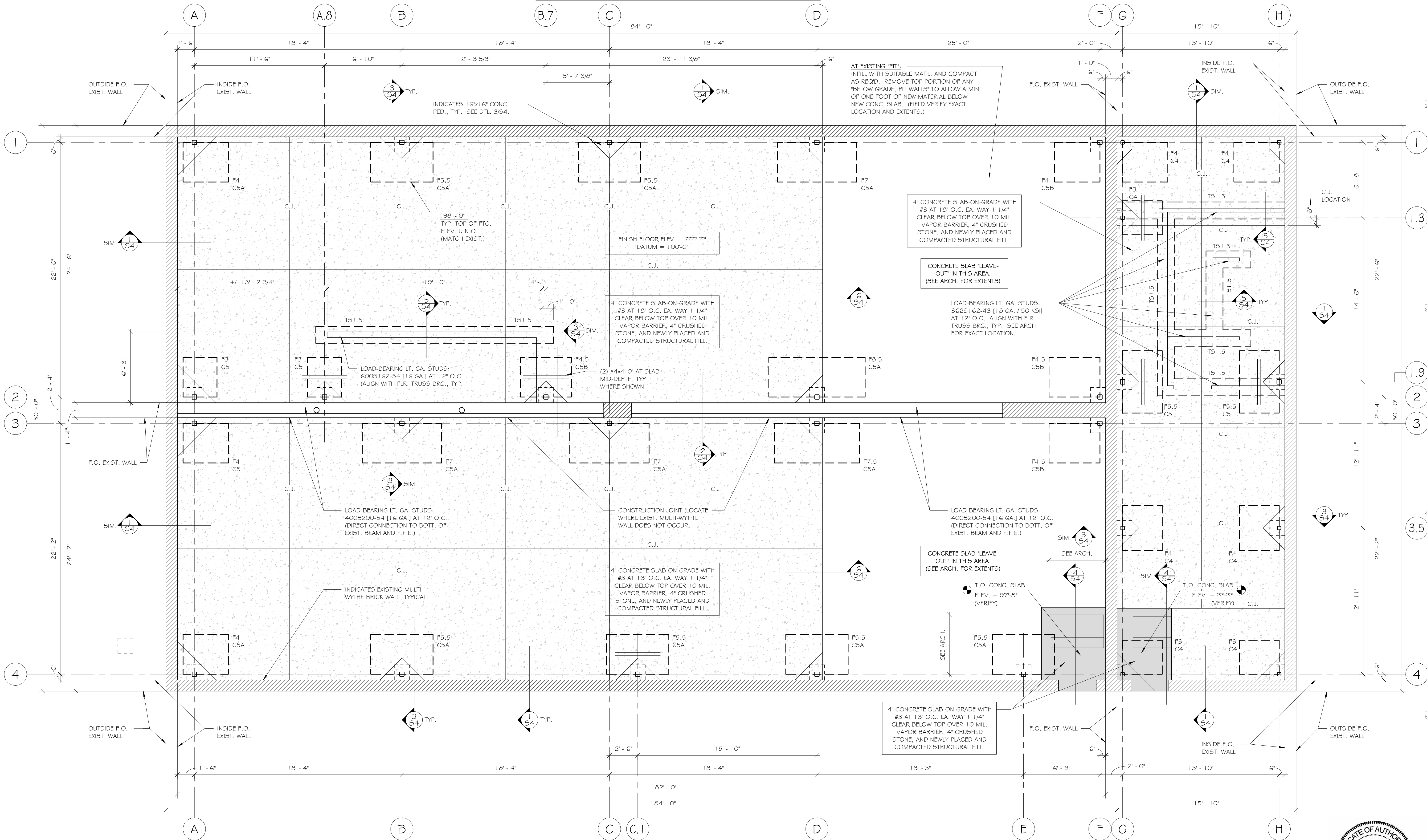
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STRUCT. NOTES AND DTLs.	

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FOOTING SCHEDULE		
MARK	SIZE	REINFORCING
F3	3'-6"x3'-0"x12" T.	(3)-#5 TRANS. BOTT.; (4)-#5 LONGIT. BOTT.
F4	3'-6"x4'-0"x12" T.	(4)-#5 TRANS. BOTT.; (4)-#5 LONGIT. BOTT.
F4.5	3'-6"x4'-6"x12" T.	(4)-#5 TRANS. BOTT.; (4)-#5 LONGIT. BOTT.
F5.5	3'-6"x5'-6"x12" T.	(6)-#5 TRANS. BOTT.; (4)-#5 LONGIT. BOTT.
F7	3'-6"x7'-0"x12" T.	(7)-#5 TRANS. BOTT.; (4)-#5 LONGIT. BOTT.
F7.5	3'-6"x7'-6"x12" T.	(7)-#5 TRANS. BOTT.; (4)-#5 LONGIT. BOTT.
F8.5	3'-6"x8'-6"x12" T.	(8)-#5 TRANS. BOTT.; (4)-#5 LONGIT. BOTT.
TS1.5	1'-6"xCONT.x12" T.	(2)-#5 CONT. BOTT.; #4 AT 48" O.C. TRANS. BOTT.

COLUMN SCHEDULE			
MARK	SIZE	BASE PLATE	ANCHOR BOLTS
C4	HSS4x4x1/4	10"x3/4"x0'-10"	(4)-3/4" DIA. x 9" EMBED
C5	HSS5x5x1/4	12"x3/4"x1'-0"	(4)-3/4" DIA. x 9" EMBED
C5A	HSS5x5x5/16	12"x3/4"x1'-0"	(4)-3/4" DIA. x 9" EMBED
C5B	HSS5x5x3/8	12"x3/4"x1'-0"	(4)-3/4" DIA. x 9" EMBED



FOUNDATION PLAN
1/4" = 1'-0"

PRELIMINARY
NOT FOR CONSTRUCTION



ENGINEER OF RECORD:
PRELIMINARY
NOT FOR
CONSTRUCTION

REVISION		
NO.	ISSUE	DATE

CONSULTANT:
JLA Engineers Incorporated
STRUCTURAL CONSULTANTS
P.O. BOX 13
TONTOWN, AR 72770
TELEPHONE (479) 770-6650
JLA JOB #3254

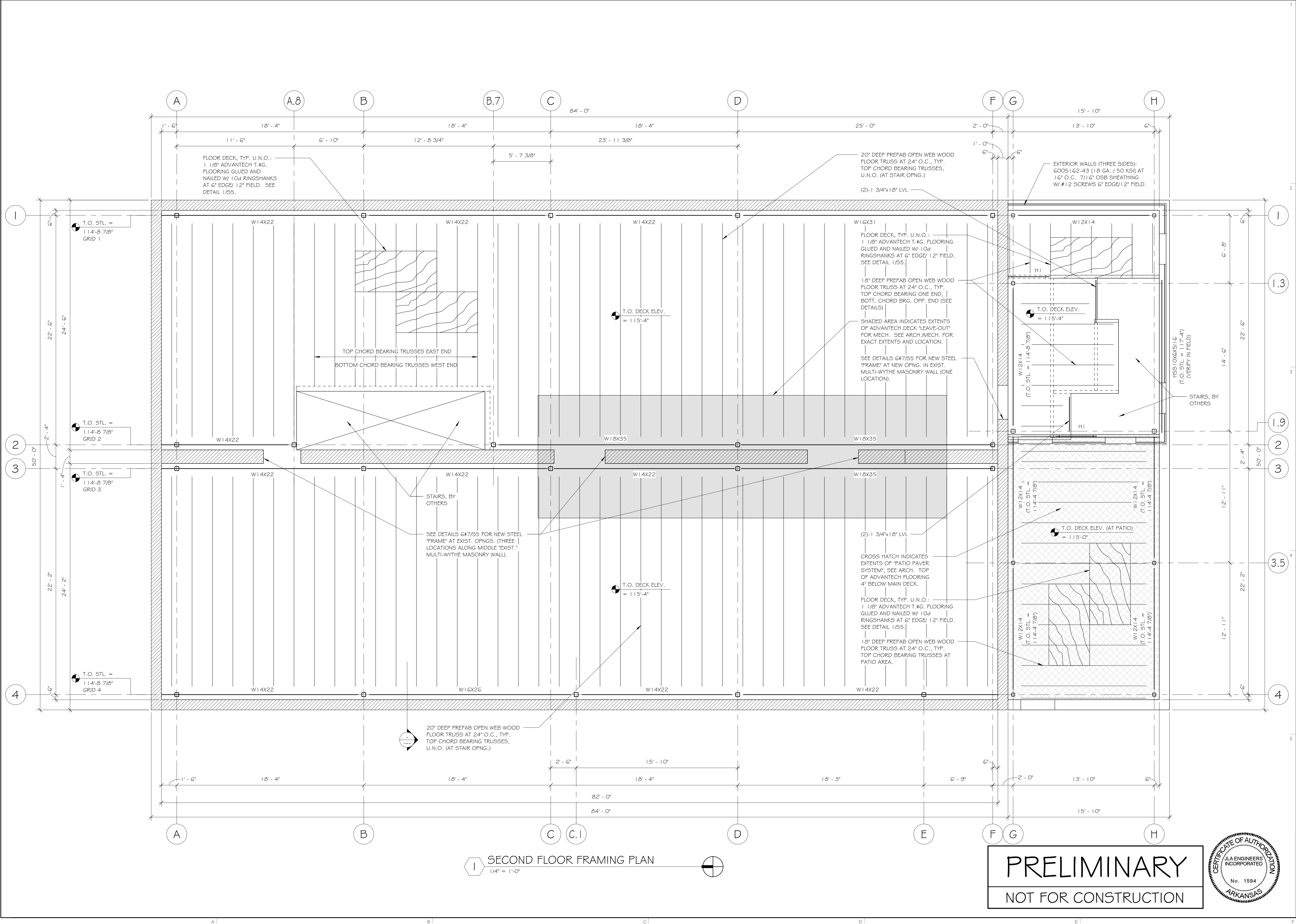
UNION BLOCK BUILDING
124 W WALNUT STR
ROGERS, ARKANSAS 72756

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LCG
CHECKED BY:
LCG

PROJECT #:
25-042

DATE:
1/30/2026

DRAWING:
S1
FOUNDATION PLAN



CORE ARCHITECTS

1800 S. OSAGE SPRINGS DR. - SUITE 100 - ROGERS, AR 72756
PH: 479.631.2673 FAX: 479.631.2674
www.coredi.com

ENGINEER OF RECORD:

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CONSULTANT:

JLA Engineers Incorporated

STRUCTURAL CONSULTANTS

P.O. BOX 13
TONTOWN, AR 72770
TELEPHONE (479) 770-6650
JLA JOB #3250

UNION BLOCK BUILDING

124 W WALNUT STR
ROGERS, ARKANSAS 72756

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LCG

PROJECT #:

25-042

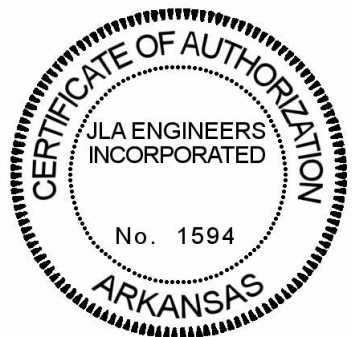
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1/30/2026

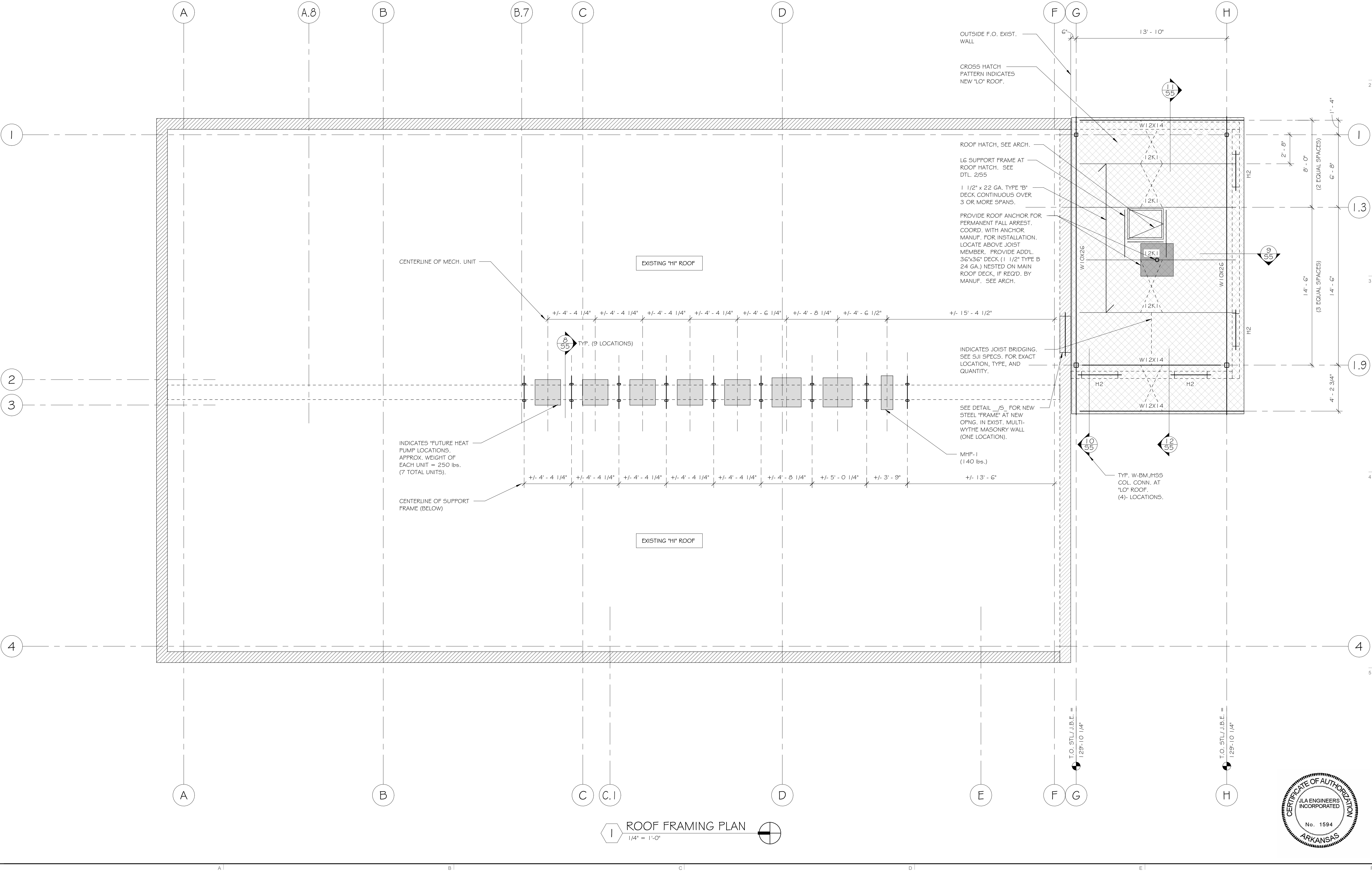
DRAWING:

S2

SECOND FLOOR
FRAMING PLAN



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NOT FOR CONSTRUCTION

INT. LOAD BRG. & EXT. NON-LB. LT. GA. HEADER SCHEDULE				
MARK	HEADER SIZE	JAMB	"BOX" MEMBERS	NOTES
H1	(2)-800S162-54 [16 GA.]	(2)-362S162-43 [16 GA. / 50 KSI]	(2)-362T150-54 [16 GA.]	1,2,3
H2	(2)-800S162-54 [16 GA.]	(2)-600S162-43 [16 GA. / 50 KSI]	(2)-600T150-54 [16 GA.]	1,2,3

NOTES:

- ALL HEADER TO JAMB CONNECTIONS: SIMPSON SHM6/54 EA. SIDE AND EA. END OF HEADER. SCREW PATTERN 'D2' PER SIMPSON RECOMMENDATIONS.
- ALL HEADER / JAMB / BOX MEMBERS SHALL BE 50 KSI.
- JAMBS SHALL EXTEND FULL HEIGHT OF WALL.

"BOX" MEMBER

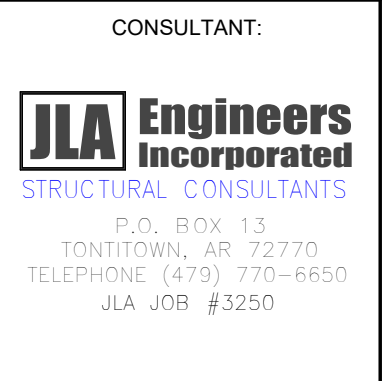
HEADER MEMBERS

"BOX" MEMBER



ENGINEER OF RECORD:
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REVISION		
NO.	ISSUE	DATE



UNION BLOCK BUILDING
124 W WALNUT STR
ROGERS, ARKANSAS 72756

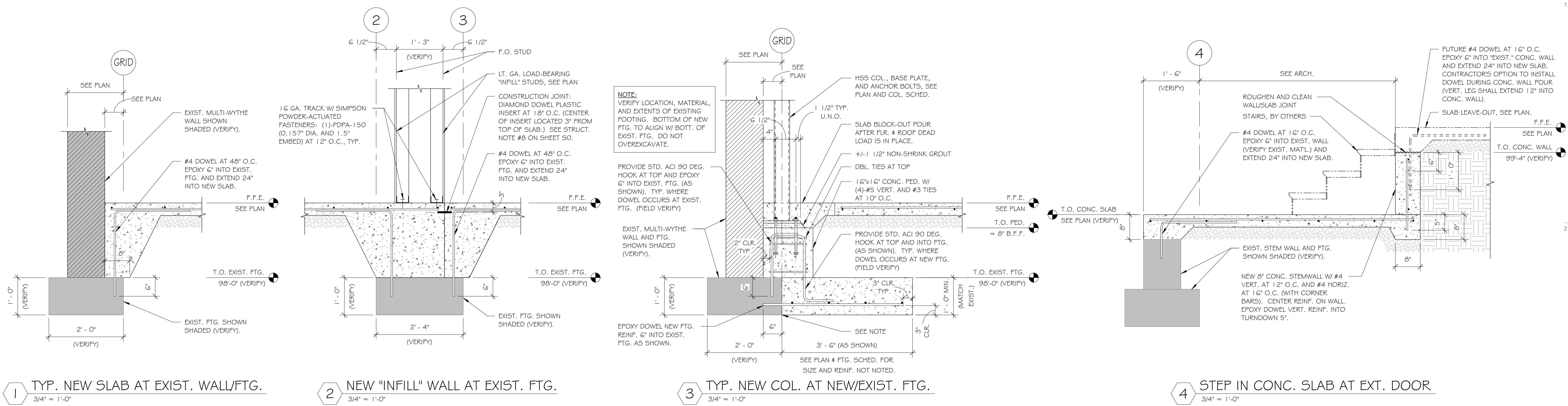
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LCG

PROJECT #:
25-042

DATE:
1/30/2026

DRAWING:
S3
ROOF FRAMING
PLAN





CORE ARCHITECTS
1800 S. OSAGE SPRINGS DR. - SUITE 100 - ROGERS, AR 72756
PH: 479.631.2673 FAX: 479.631.2674
www.core-arch.com

ENGINEER OF RECORD:
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CONSULTANT:
JLA Engineers Incorporated
STRUCTURAL CONSULTANTS
P.O. BOX 13
TONTOWN, AR 72770
TELEPHONE (479) 770-6650
JLA JOB #3250

UNION BLOCK BUILDING
124 W WALNUT STR
ROGERS, ARKANSAS 72756

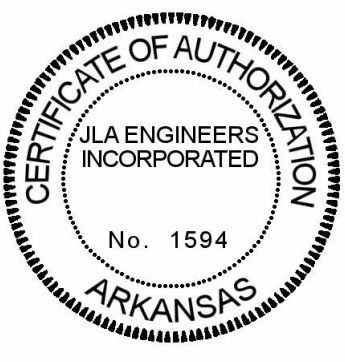
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LCG

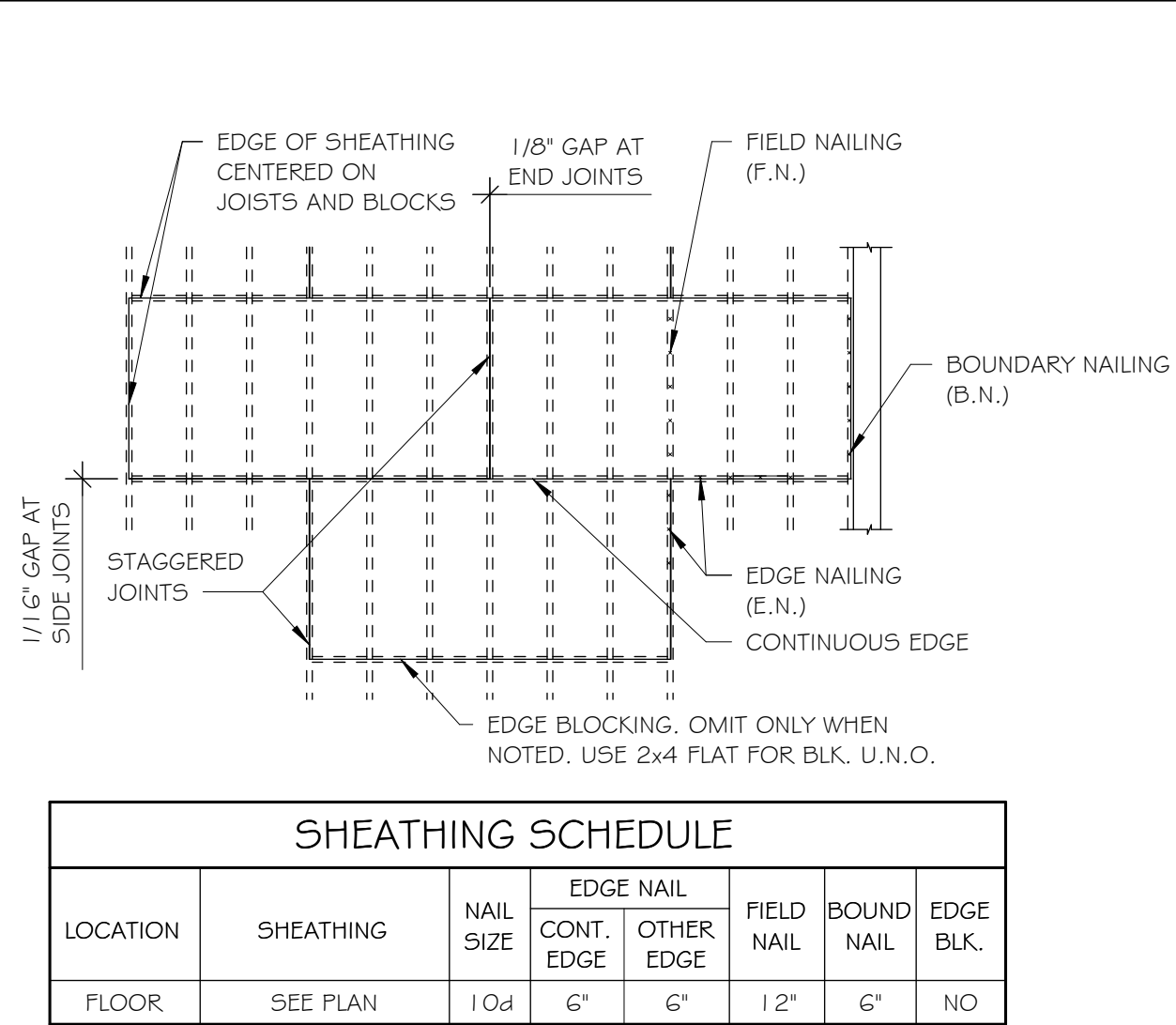
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25-042

DATE:
1/30/2026

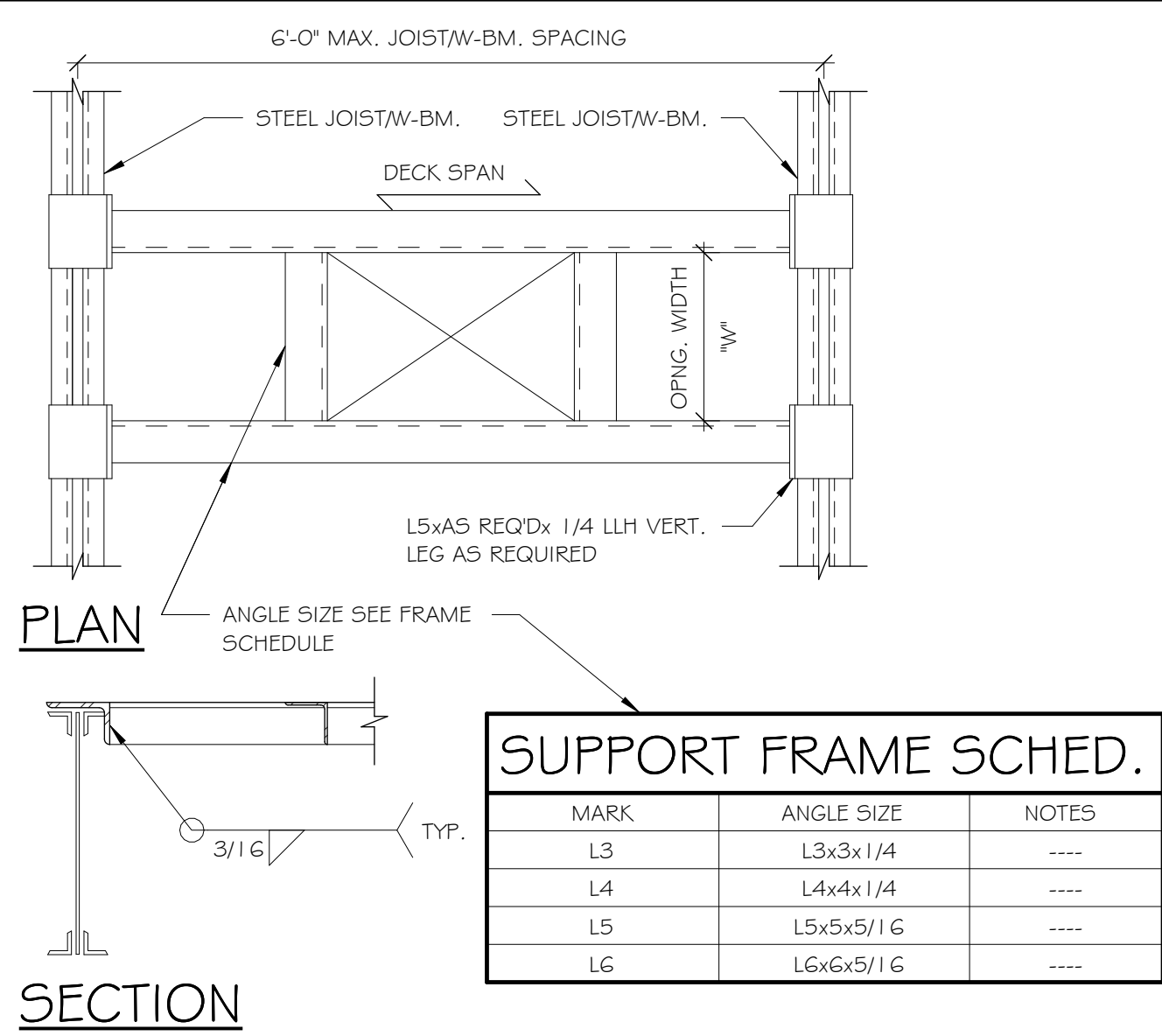
DRAWING:
S4
FOUNDATION
DETAILS

PRELIMINARY
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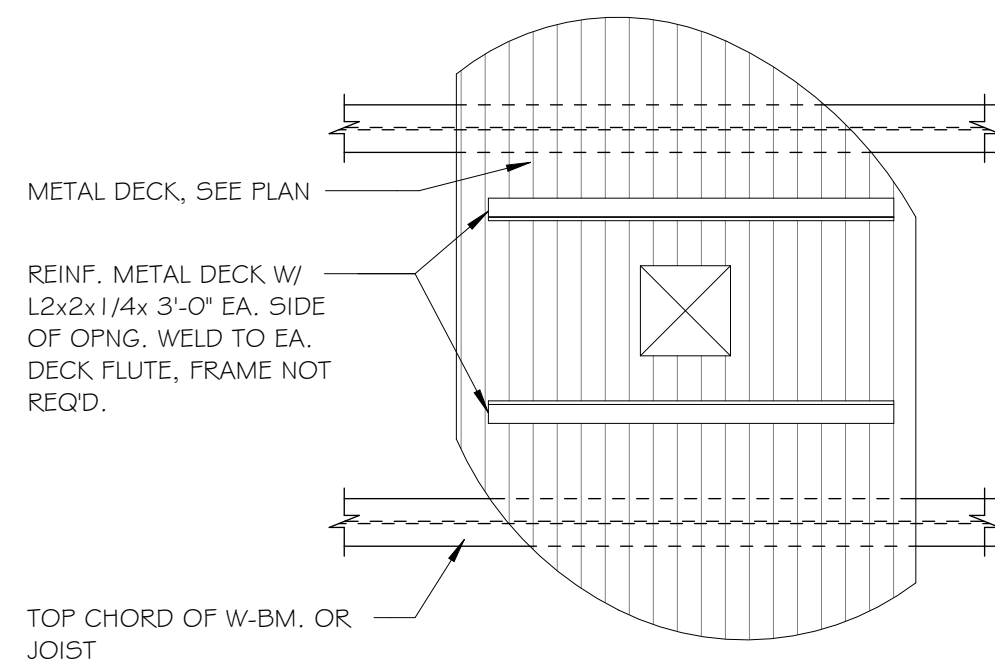




1 FLOOR SHEATHING
3/4\" = 1'-0"



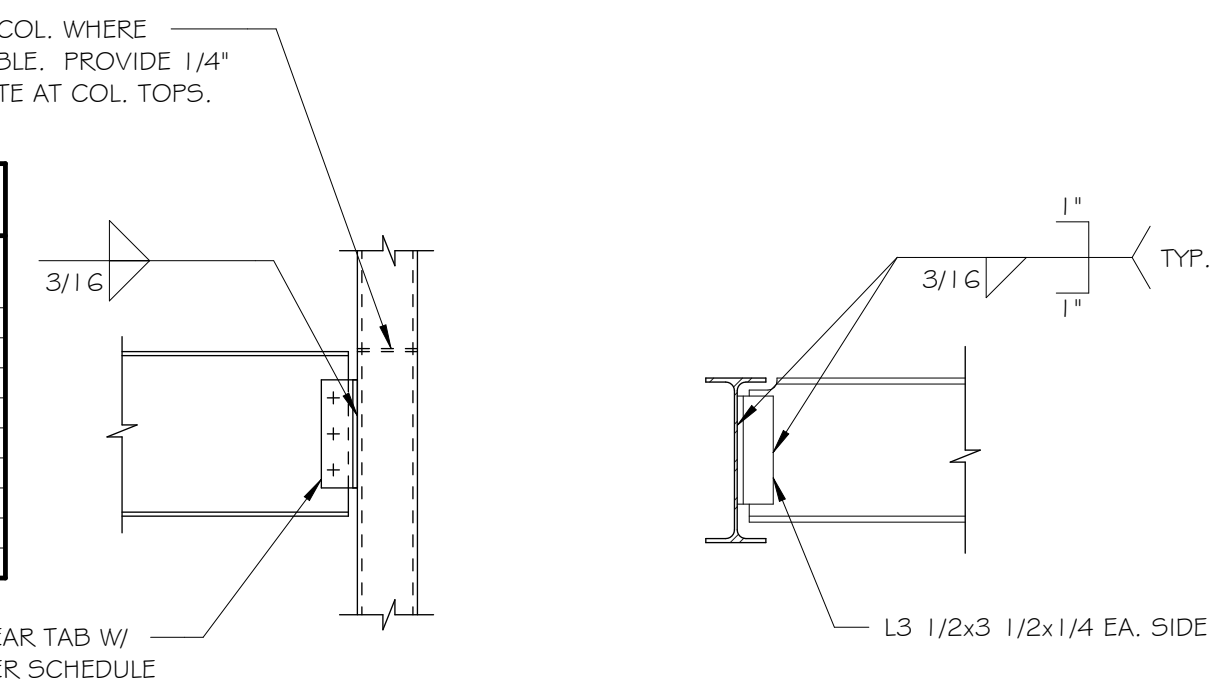
2 LARGE ROOF & 2ND. FLR. SLAB OPENING DETAILS
3/4\" = 1'-0"



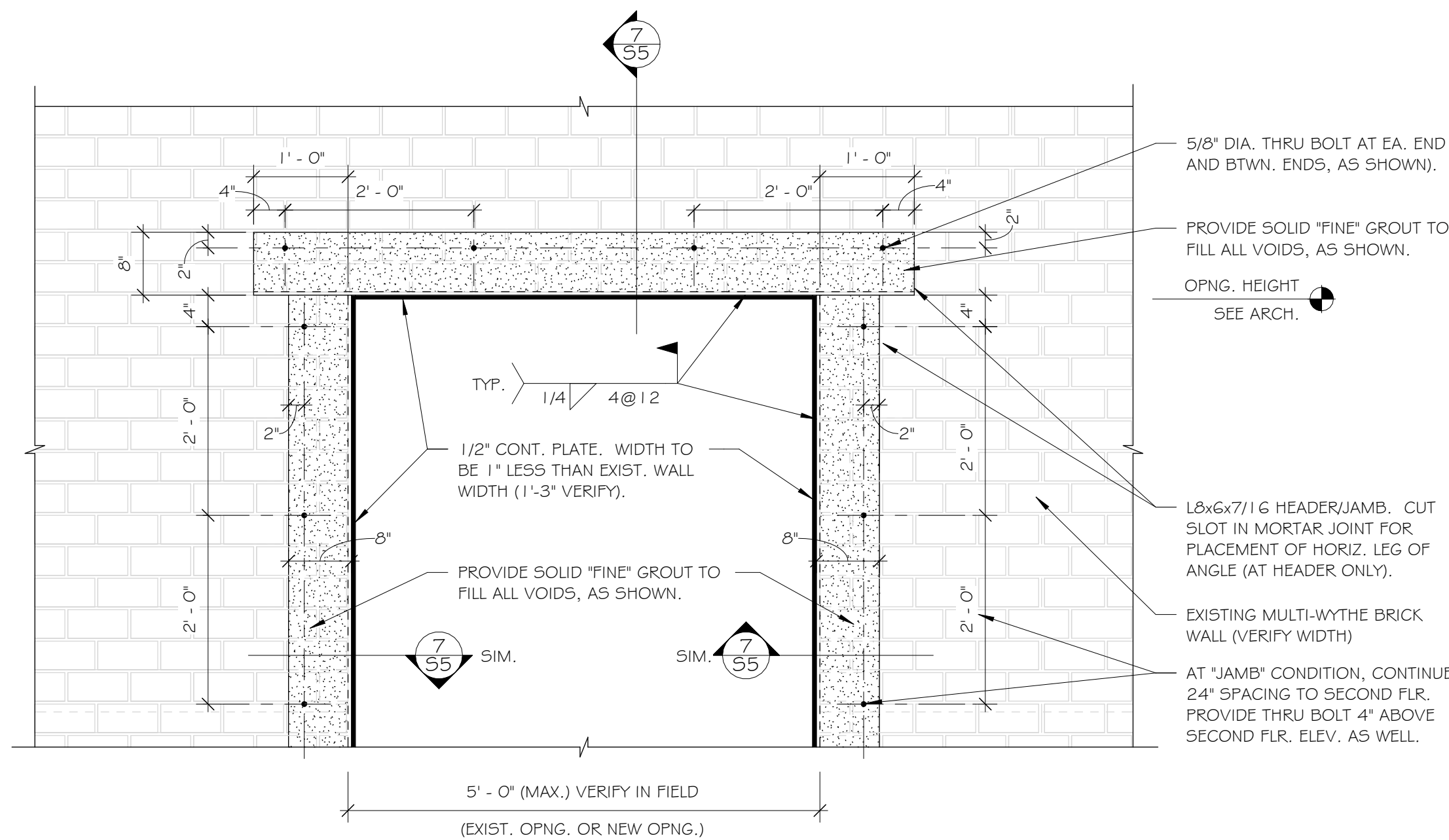
3 SMALL ROOF OPENING DETAIL
3/4\" = 1'-0"

BOLTING SCHEDULE	
BEAM SIZE	# ROWS 3/4\" DIA. A325N BOLTS
W8, W10	2
W12, W14	3
W16	4
W18	5
W21	6
W24	7
W27	8
W30	9
W33	10

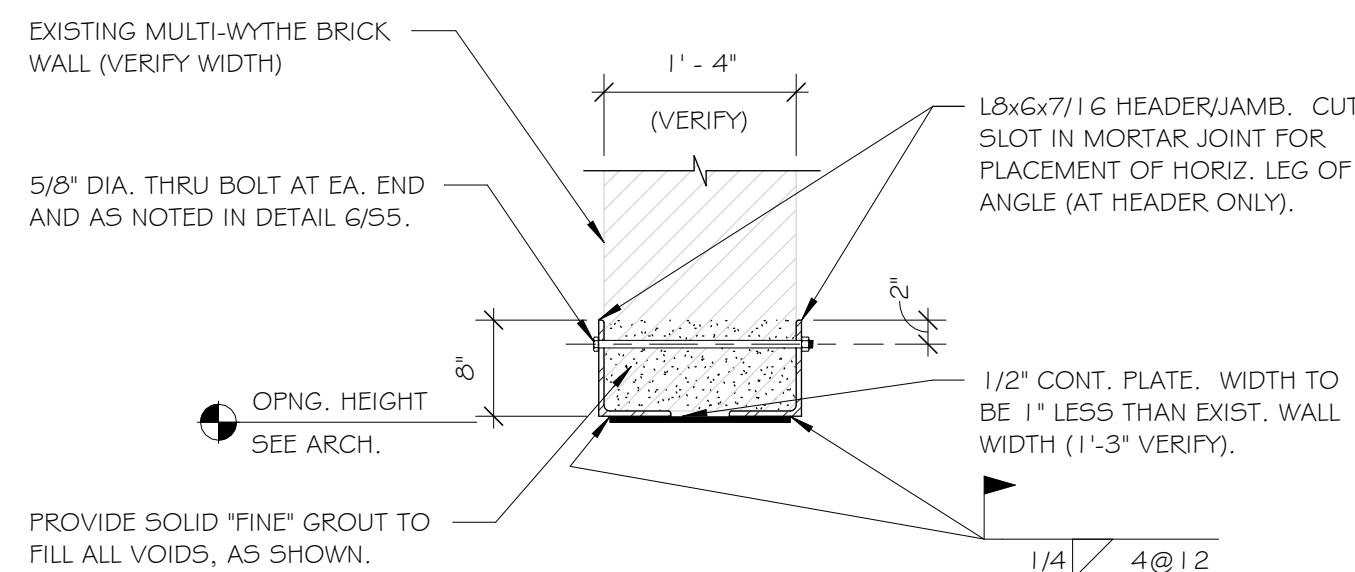
4 W-BEAM TO COLUMN
3/4\" = 1'-0"



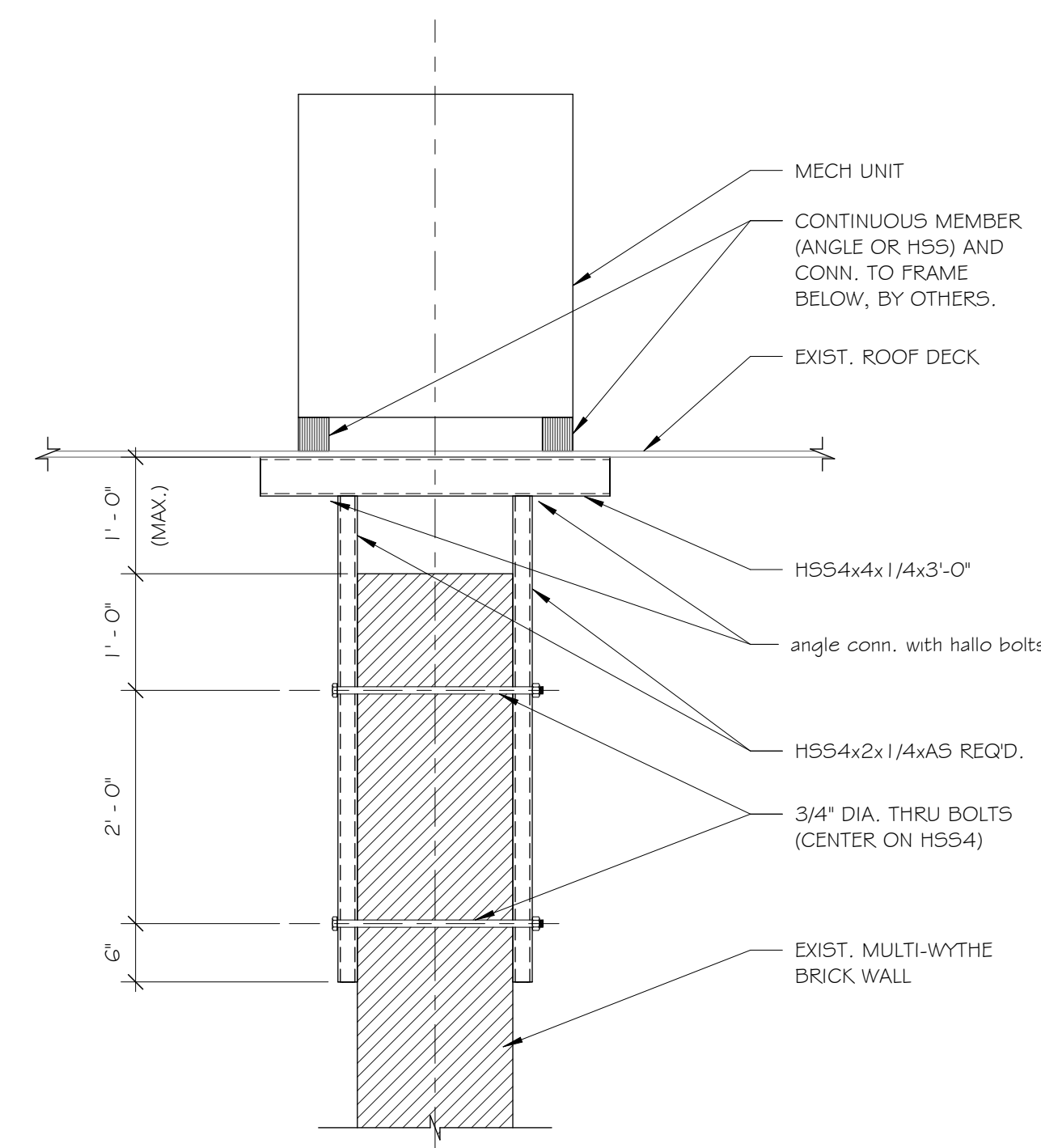
5 TYP. W-BM. TO GIRDER
3/4\" = 1'-0"



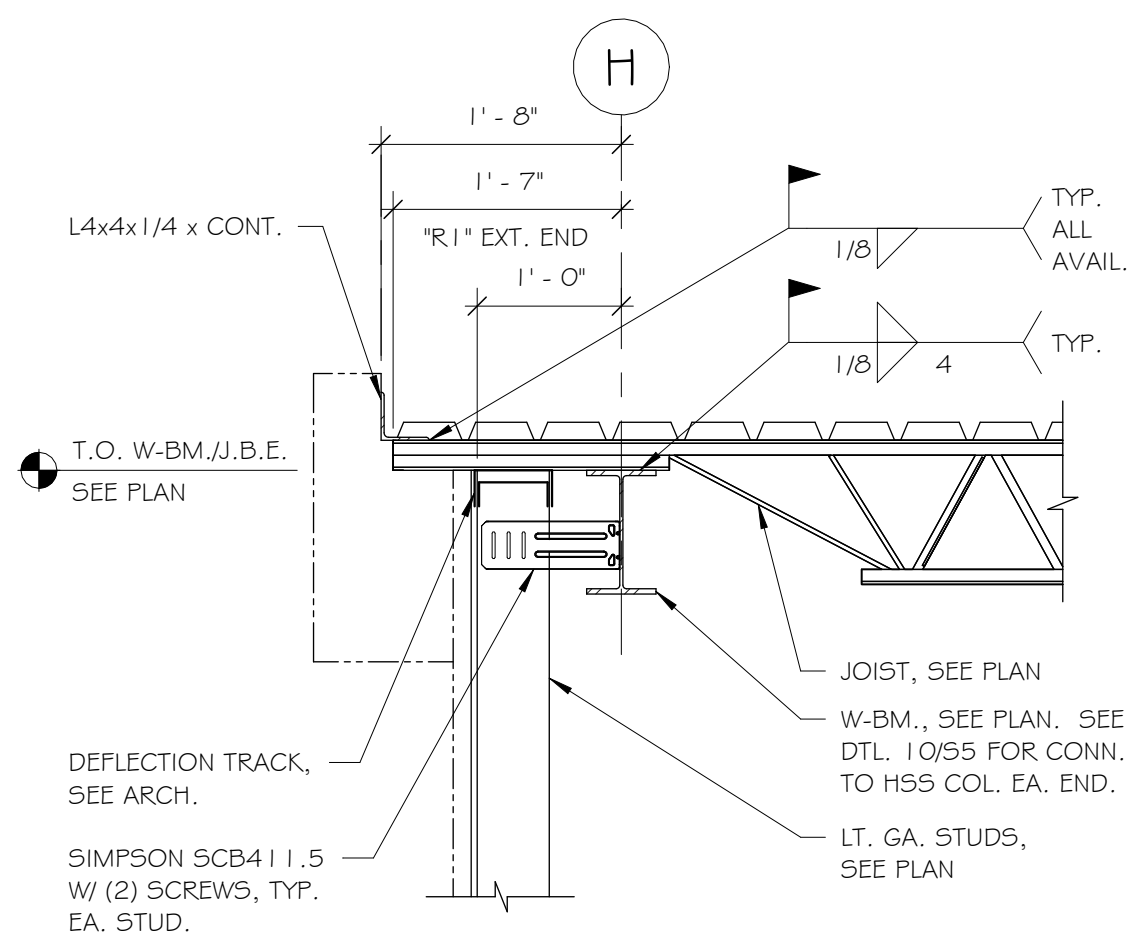
6 OPENING IN EXISTING MULTI-WYTHE BRICK WALL
3/4\" = 1'-0"



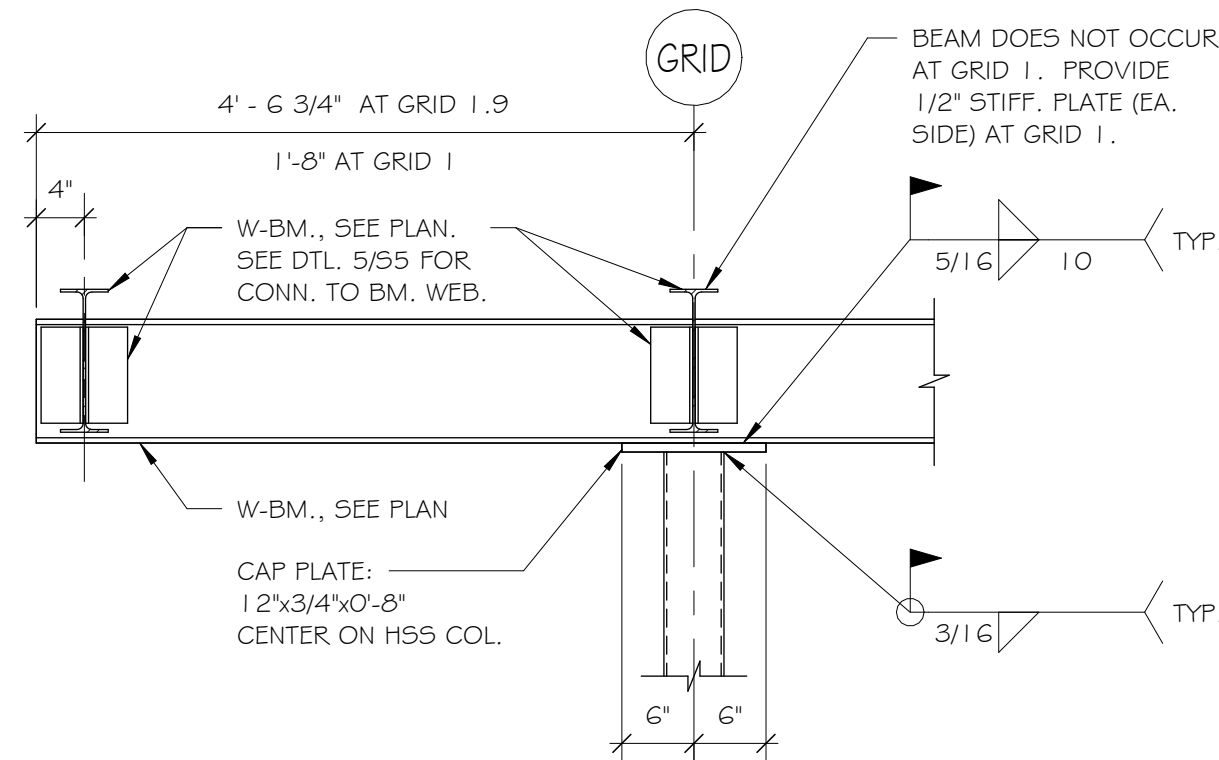
7 JAMB & HEADER SECTION AT OPNG.
3/4\" = 1'-0"



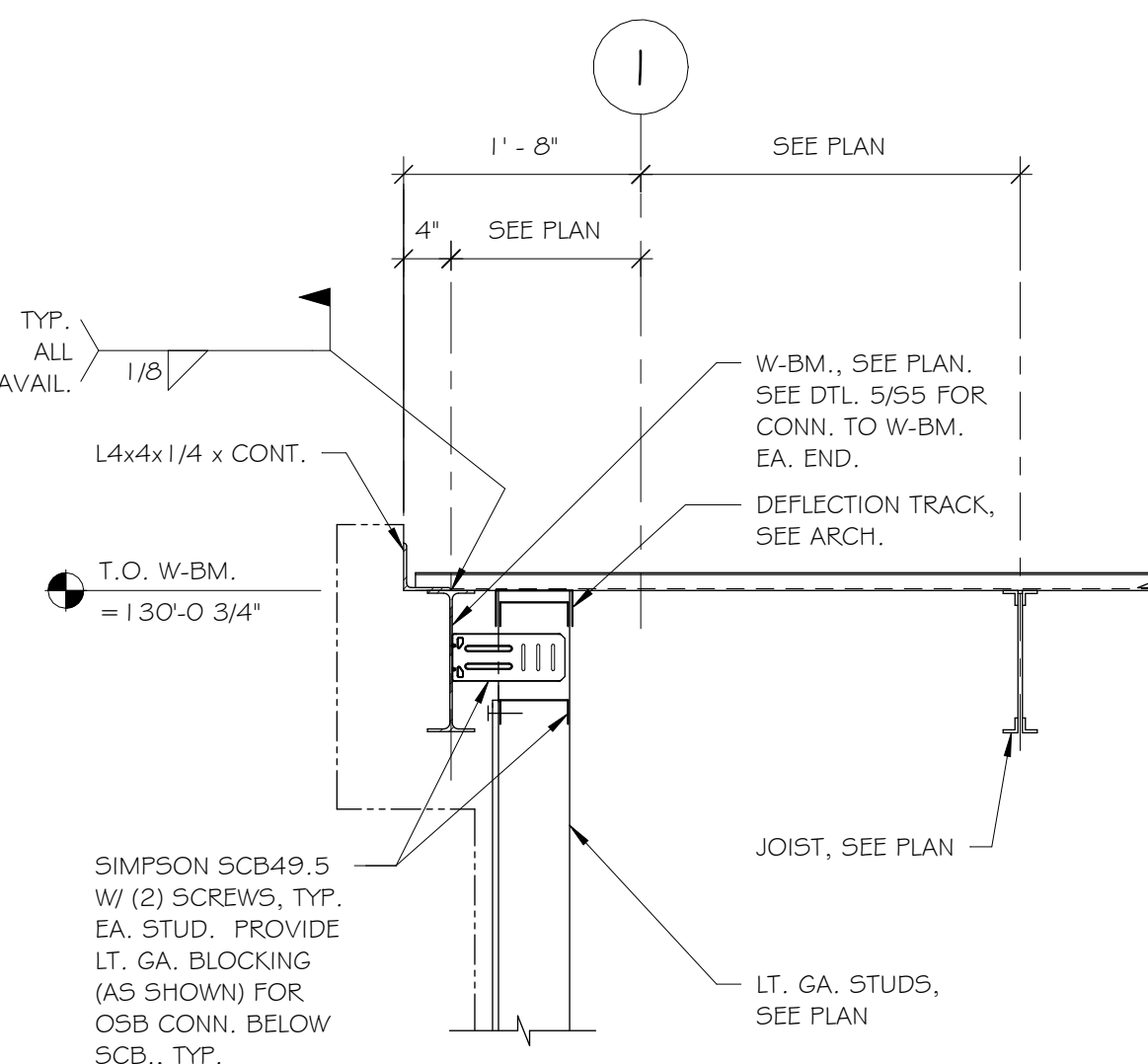
8 TYP. MECH. SUPPORT FRAME
3/4\" = 1'-0"



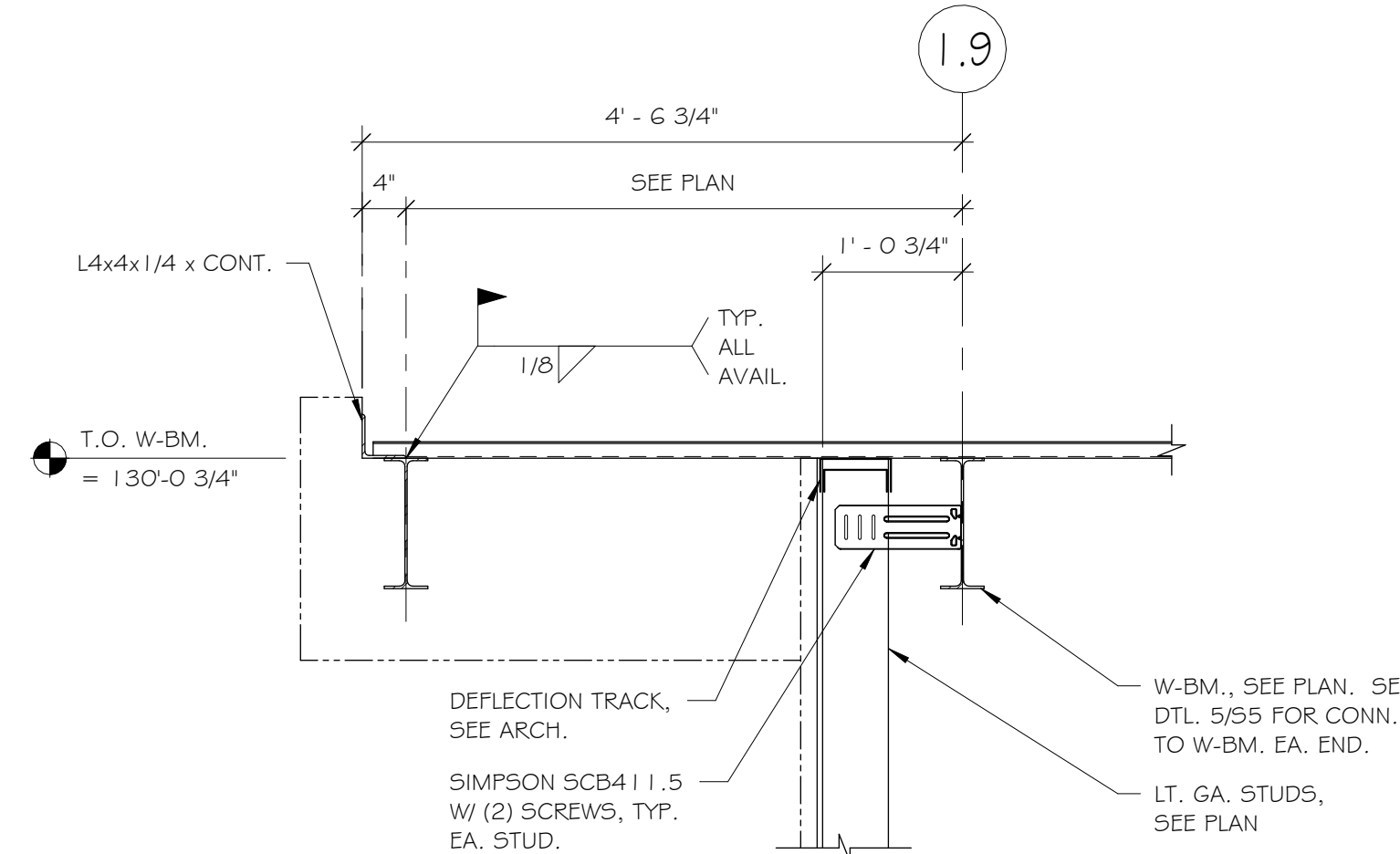
9 "LO" ROOF AT GRID H
3/4\" = 1'-0"



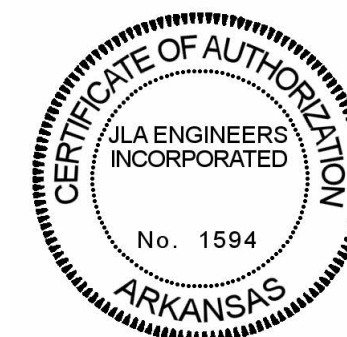
10 "LO" ROOF W-BM. CONN. TO HSS COL.
3/4\" = 1'-0"



11 "LO" ROOF AT GRID I
3/4\" = 1'-0"



12 "LO" ROOF AT GRID 1.9
3/4\" = 1'-0"



PRELIMINARY
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ENGINEER OF RECORD:
PRELIMINARY
NOT FOR CONSTRUCTION

REVISION		
NO.	ISSUE	DATE

CONSULTANT:
JLA Engineers Incorporated
STRUCTURAL CONSULTANTS
P.O. BOX 13
TONTITOWN, AR 72770
TELEPHONE (479) 770-6650
JLA JOB #3250

UNION BLOCK BUILDING
124 W WALNUT STR
ROGERS, ARKANSAS 72756

DRAWN BY:
LCG
CHECKED BY:
LCG

PROJECT #:
25-042

DATE:
1/30/2026

DRAWING:
S5
FRAMING DETAILS

STATEMENT OF SPECIAL INSPECTIONS (STRUCTURAL)

GENERAL INFORMATION
This Schedule of Special Inspection Services (Structural) has been prepared by JLA Engineers Inc. (Structural Engineer of Record) and shall be included in the Statement of Special Inspections which the "Registered Design Professional In Responsible Charge" (not JLA Engineers Inc.) shall submit to the Building Official at time of permit application in accordance with Section 1704 of the 2021 Arkansas Fire Prevention Code.
Special Inspection is the monitoring of the materials and workmanship critical to the integrity of the building structure. It is a review of the work of the contractors and their employees to ensure that the approved plans and specifications are being followed and that the relevant codes and referenced standards are being observed. The Special Inspection process is in addition to the inspections conducted by the Building Official or authority having jurisdiction and Structural Observation by the Design Professional.
Special inspections and tests are required to be performed by qualified, independent agents with special expertise as approved by the Building Official. The qualified, independent agents shall be retained by the owner to complete the special inspections noted in this document. Refer to Section 1700 of the 2021 Arkansas Fire Prevention Code.
Special Inspections per 2021 Arkansas Fire Prevention Code Section 1704 are required to be provided on all professionally designed projects not meeting the exceptions described in Section 1704.2 or as determined by the Building Official.
As part of the general requirements Section 1704 of the 2021 Arkansas Fire Prevention Code, Special Inspections, Contractor Responsibility and Structural Observations, a Statement of Special Inspections including a Schedule of Special Inspection Services prepared by the Registered Design Professional in Responsible Charge (not JLA Engineers Inc.) shall be submitted to the Building Official at time of permit application.

1704.2.5 INSPECTION OF FABRICATORS			
MATERIAL/ACTIVITY	SERVICE	Y/N	EXTENT
Verify fabrication/quality control procedures	In-plant review (3)	Y	Periodic

1705.2 STEEL CONSTRUCTION			
MATERIAL / ACTIVITY	SERVICE	Y/N	EXTENT
1. Fabricator and erector documents (Verify reports and certificates as listed in AISC 360, chapter N, paragraph 3.2 for compliance with construction documents)	Submittal Review	Y	Each submittal
2. Material verification of structural steel	Shop (3) and field inspection	Y	Periodic
3. Embedments (Verify diameter, grade, type, length, embedment. See 1705.3 for anchors)	Field inspection	Y	Periodic
4. Verify member locations, braces, stiffeners, and application of joint details at each connection comply with construction documents	Field inspection	Y	Periodic
5. Structural steel welding (Inspection tasks prior to welding)			
a. Welding procedure specifications (WPSs) available	Submittal Review	Y	Perform (4)
b. Manufacturer certifications for welding consumables available	Submittal Review	Y	Perform (4)
c. Material identification (type/grade)	Shop (3) and field inspection	Y	Observe (4)
d. Welder identification system (G)	Shop (3) and field inspection	Y	Observe (4)
e. Fit-up of groove welds (including joint geometry): Joint preparation; Dimensions (alignment, root opening, root face, bevel); Cleanliness (condition of steel surfaces); Tacking (tack weld quality and location); Backing type and fit (if applicable)	Shop (3) and field inspection	Y	Observe (4)
f. Configuration and finish of access holes	Shop (3) and field inspection	N	Observe (4)
g. Fit-up of fillet welds: Dimensions (alignment, gaps at root); Cleanliness (condition of steel surfaces); Tacking (tack weld quality and location)	Shop (3) and field inspection	Y	Observe (4)
6. Structural steel welding (Inspection tasks during welding)			
a. Use of qualified welders	Shop (3) and field inspection	Y	Observe (4)
b. Control and handling of welding consumables: Packaging; Exposure control	Shop (3) and field inspection	Y	Observe (4)
c. No welding over cracked tack welds	Shop (3) and field inspection	Y	Observe (4)
d. Environmental conditions: Wind speed within limits; Precipitation and temperature	Shop (3) and field inspection	Y	Observe (4)
e. WPS followed: Settings on welding equipment; Travel speed; Selected welding materials; Shielding gas type/flow rate; Preheat applied; Interpass temperature maintained (min./max.); Proper position (F, V, H, OH)	Shop (3) and field inspection	Y	Observe (4)
f. Welding techniques: Interpass and final cleaning; Each pass within profile limitations; Each pass meets quality requirements	Shop (3) and field inspection	Y	Observe (4)
7. Structural steel welding (Inspection tasks after welding)			
a. Welds cleaned	Shop (3) and field inspection	Y	Observe (4)
b. Size, length and location of welds	Shop (3) and field inspection	Y	Perform (4)
c. Welds meet visual acceptance criteria: Crack prohibition; Weld/base-metal fusion; Crater cross section; Weld profiles; Weld size; Undercut; Porosity	Shop (3) and field inspection	Y	Perform (4)
d. Arc strikes	Shop (3) and field inspection	Y	Perform (4)
e. k-area (7)	Shop (3) and field inspection	Y	Perform (4)

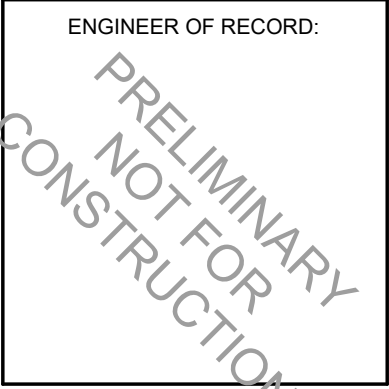
1705.2 STEEL CONSTRUCTION (CONTINUED)			
MATERIAL / ACTIVITY	SERVICE	Y/N	EXTENT
f. Backing removed and weld tabs removed (if required)	Shop (3) and field inspection	Y	Perform (4)
g. Repair activities	Shop (3) and field inspection	Y	Perform (4)
h. Document acceptance or rejection of welded joint or member	Shop (3) and field inspection	Y	Perform (4)
8. Nondestructive testing (NDT) of welded joints:		Y	
a. Complete penetration groove welds 5/16" or greater in risk category III or IV	Shop (3) or field ultrasonic testing - 100%	N	Periodic
b. Complete penetration groove welds 5/16" or greater in risk category II	Shop (3) or field ultrasonic testing - 10% of welds minimum	N	Periodic
c. Thermally cut surfaces of access holes when the flange thickness exceeds 2" for rolled shapes, or when the web thickness exceeds 2" for built-up shapes.	Shop (3) or field magnetic Partical or Penetrant testing	N	Periodic
d. Welded joints subject to fatigue when required by AISC 360, Appendix 3, Table A-3.1	Shop (3) or field radiographic or Ultrasonic testing	Y	Periodic
e. Fabricator's NDT reports when fabricator performs NDT	Verify reports	Y	Each submittal (5)
9. Structural steel bolting (Inspection tasks prior to bolting)			
a. Manufacturer's certifications available for fastener materials	Shop (3) and field inspection	Y	Perform (4)
b. Fasteners marked in accordance with ASTM requirements	Shop (3) and field inspection	Y	Observe (4)
c. Proper fasteners selected for the joint detail (grade, type, bolt length if threads are to be excluded from shear plane)	Shop (3) and field inspection	Y	Observe (4)
d. Proper bolting procedure selected for joint detail	Shop (3) and field inspection	Y	Observe (4)
e. Connecting elements, including the appropriate laying surface condition and hole preparation, if specified, meet applicable requirements	Shop (3) and field inspection	Y	Observe (4)
f. Pre-installation verification testing by installation personnel observed and documented for fastener assemblies and methods used			
1) Snug-tight joints	Shop (3) and field inspection	Y	Observe (4)
2) Pre-tensioned and slip-critical joints	Shop (3) and field inspection	Y	Observe (4)
g. Proper storage provided for bolts, nuts, washers and other fastener components	Shop (3) and field inspection	Y	Observe (4)
10. Structural steel bolting (Inspection tasks during bolting)			
a. Fastener assemblies, of suitable condition, placed in all holes and washers (if required) are positioned as required			
1) Snug-tight joints	Field inspection	Y	Observe (4)
2) Pre-tensioned and slip-critical joints	Field inspection	Y	Observe (4)
b. Joint brought to the snug-tight condition prior to the pretensioning operation			
1) Snug-tight joints	Field inspection	Y	Observe (4)
2) Pre-tensioned and slip-critical joints			
a) Turn-of-nut with matching markings	Field inspection	Y	Observe (4) (8)
b) Direct tension indicator	Field inspection	Y	Observe (4) (8)
c) Twist-off type tension control bolt	Field inspection	Y	Observe (4) (8)
d) Turn-of-nut without matching markings	Field inspection	Y	Observe (4) (9)
e) Calibrated wrench	Field inspection	Y	Observe (4) (9)
c. Fastener component not turned by the wrench prevented from rotating	Field inspection	Y	Observe (4)
d. Fasteners are pretensioned in accordance with the RCSC Specification, progressing systematically from the most rigid point toward the free edges	Field inspection	Y	Observe (4)
11. Structural steel bolting (Inspection tasks after bolting)			
a. Document acceptance or rejection of bolted connections		Y	Perform (4)
12. Inspection of steel elements of composite construction prior to concrete placement			
a. Placement and installation of steel deck (10)	Field inspection	N	Perform (4)
b. Placement and installation of steel headed stud anchors (11)	Field inspection	N	Perform (4)
c. Document acceptance or rejection of steel elements		N	Perform (4)

1705.2.2 COLD-FORMED STEEL DECK			
MATERIAL / ACTIVITY	SERVICE	Y/N	EXTENT
1. Inspection or execution tasks prior to deck placement:			
a. Verify compliance of materials (deck and all deck accessories) with construction documents, including profiles, material properties, and base metal thickness.	Submittal Review	Y	Perform (12)
b. Document acceptance or rejection of deck and deck accessories.	Submittal Review	Y	Perform (12)
2. Inspection or execution of tasks after deck placement:			
a. Verify compliance of deck and all deck accessories installation with construction documents.	Field inspection	Y	Perform (12)
b. Verify deck materials are represented by the mill certifications that comply with the construction documents.	Field inspection	Y	Perform (12)
c. Document acceptance or rejection of installation of deck and deck accessories.	Field inspection	Y	Perform (12)
3. Inspection or execution tasks prior to welding:			
a. Welding procedure specifications (WPS) available.	Submittal Review	Y	Observe (12)
b. Manufacturer certifications for welding consumables available.	Submittal Review	Y	Observe (12)
c. Material identification (type/grade).	Field inspection	Y	Observe (12)
d. Check welding equipment.	Field inspection	Y	Observe (12)
4. Inspection or execution tasks during welding:			
a. Use of qualified welders.	Field inspection	Y	Observe (12)
b. Control and handling of welding consumables.	Field inspection	Y	Observe (12)
c. Environmental conditions (wind speed, moisture, temperature).	Field inspection	Y	Observe (12)
d. WPS followed	Field inspection	Y	Observe (12)
5. Inspection or execution tasks after welding:			
a. Verify size and location of welds, including support, sidelap, and perimeter welds.	Field inspection	Y	Perform (12)
b. Welds meet visual acceptance criteria.	Field inspection	Y	Perform (12)
c. Verify repair activities.	Field inspection	Y	Perform (12)
d. Document acceptance or rejection of welds.	Field inspection	Y	Perform (12)
6. Inspection or execution tasks prior to mechanical fastening:			
a. Manufacturer installation instructions available for mechanical fasteners.	Submittal Review	Y	Observe (12)
b. Proper tools available for fastener installation.	Field inspection	Y	Observe (12)
c. Proper storage for mechanical fasteners.	Field inspection	Y	Observe (12)
7. Inspection or execution tasks during mechanical fastening:			
a. Fasteners are positioned as required.	Field inspection	Y	Observe (12)
b. Fasteners are installed in accordance with manufacturer's instructions.	Field inspection	Y	Observe (12)
8. Inspection or execution tasks after mechanical fastening:			
a. Check spacing, type, and installation of support fasteners.	Field inspection	Y	Perform (12)
b. Check spacing, type, and installation of sidelap fasteners.	Field inspection	Y	Perform (12)
c. Check spacing, type, and installation of perimeter fasteners.	Field inspection	Y	Perform (12)
d. Verify repair activities.	Field inspection	Y	Perform (12)
e. Document acceptance or rejection of mechanical fasteners.	Field inspection	Y	Perform (12)

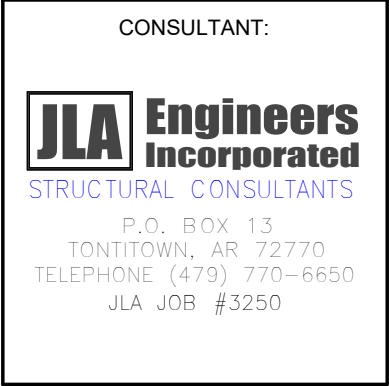
1705.2.3 OPEN-WEB STEEL JOISTS AND JOIST GIRDERS			
MATERIAL/ACTIVITY	SERVICE	Y/N	EXTENT
1. Installation of open-web steel joists and joist girders.			
a. End connections - welding or bolted.	Field inspection	Y	Periodic
b. Bridging - horizontal or diagonal.			
1. Standard bridging.	Field inspection	Y	Periodic
2. Bridging that differs from the SJI specifications listed in Section 2207.1.	Field inspection	Y	Periodic

PRELIMINARY

NOT FOR CONSTRUCTION



REVISION		
NO.	ISSUE	DATE



UNION BLOCK BUILDING

124 W WALNUT STR
ROGERS, ARKANSAS 72756

DRAWN BY: LCG
CHECKED BY: LCG

PROJECT #: 25-042

DATE: 1/30/2026

DRAWING: S8 SPECIAL INSPECTIONS

STATEMENT OF SPECIAL INSPECTIONS (STRUCTURAL) CONT.

1705.3 CONCRETE CONSTRUCTION			
MATERIAL / ACTIVITY	SERVICE	Y/N	EXTENT
1. Inspect reinforcement, including prestressing tendons, and verify placement.	Shop (3) and field inspection	Y	Periodic
2. Reinforcing bar welding:			
a. Verify weldability of reinforcing bars other than ASTM A706.	Field inspection	N	Periodic
b. Inspect single-pass fillet welds, maximum 5/16".	Field inspection	N	Periodic
c. Inspect all other welds.	Field inspection	N	Continuous
3. Inspect anchors cast in concrete.	Field inspection	Y	Periodic
4. Inspect anchors post-installed in hardened concrete members. Specific requirements for special inspection shall be included in the research report for the anchor issued by an approved source in accordance with 17.5.2 in ACI 318, or other qualification procedures. Where specific requirements are not provided, special inspection requirements shall be specified by the registered design professional and shall be approved by the building official prior to the commencement of the work.			
a. Adhesive anchors installed in horizontally or upwardly inclined orientations to resist sustained tension loads.	Field inspection	N	Continuous
b. Mechanical anchors and adhesive anchors not defined in 4.a.	Field inspection	Y	Periodic
5. Verify use of approved design mix.	Shop (3) and field inspection	Y	Periodic
6. Prior to concrete placement, fabricate specimens for strength tests, perform slump and air content tests, and determine the temperature of the concrete.	Field inspection	Y	Continuous
7. Inspect concrete and shotcrete placement for proper application techniques.	Field inspection	Y	Continuous
8. Verify maintenance of specified curing temperature and techniques.	Shop (3) and field inspection	Y	Periodic
9. Inspection of prestressed concrete for:			
a. Application of prestressing forces	Field inspection	N	Continuous
b. Grouting of bonded prestressing tendons.	Field inspection	N	Continuous
10. Inspect erection of precast concrete members	Field inspection	N	Periodic
11. 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	Field inspection	Y	Periodic
12. Inspection of formwork for shape, location and dimensions of the concrete member being formed.	Field inspection	Y	Periodic

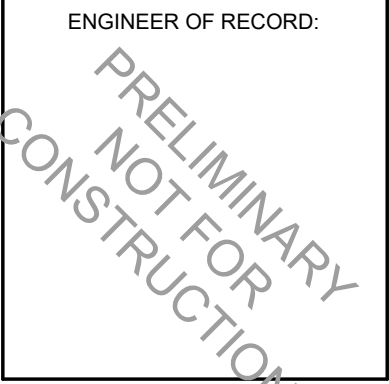
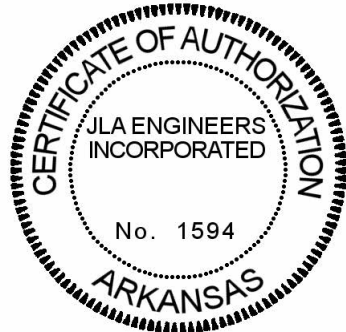
1705.5 WOOD CONSTRUCTION			
MATERIAL/ACTIVITY	SERVICE	Y/N	EXTENT
1. Inspection of the fabrication process of wood structural elements and assemblies in accordance with Section 1704.2.5	In-plant review (3)	Y	Periodic
2. For high-load diaphragms, verify grade and thickness of structural panel sheathing agree with approved building plans	Field inspection	N	Periodic
3. For high-load diaphragms, verify nominal size of framing members at adjoining panel edges, nail or staple diameter and length, number of fastener lines, and that spacing between fasteners in each line and at edge margins agree with approved building plans	Field inspection	N	Periodic
4. Metal-plate-connected wood trusses spanning 60 feet or greater: verify temporary and permanent restraint/bracing are installed in accordance with the approved truss submittal package	Field inspection	N	Periodic

1705.6 SOILS			
MATERIAL / ACTIVITY	SERVICE	Y/N	EXTENT
1. Verify materials below shallow foundations are adequate to achieve the design bearing capacity.	Field inspection	Y	Periodic
2. Verify excavations are extended to proper depth and have reached proper material.	Field inspection	Y	Periodic
3. Perform classification and testing of compacted fill materials.	Field inspection	Y	Periodic
4. Verify use of proper materials, densities, and lift thicknesses during placement and compaction of compacted fill	Field inspection	Y	Continuous
5. Prior to placement of compacted fill, inspect subgrade and verify that site has been prepared properly	Field inspection	Y	Periodic

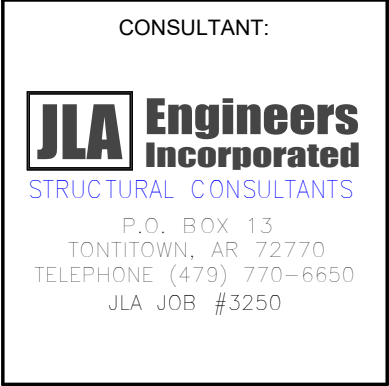
FOOTNOTES
Notes (all notes may not be applicable for this project): 1. The inspection and testing agent(s) shall be engaged by the Owner or the Owner's Agent, and not by the Contractor or Subcontractor whose work is to be inspected or tested. Any conflict of interest must be disclosed to the Building Official prior to commencing work. The qualifications of the Special Inspector(s) and/or testing agencies may be subject to the approval of the Building Official and/or the Design Professional. 2. The list of Special Inspections may be submitted as a separate document, if noted so above. 3. Special Inspections as required by Section 1704.2.5 are not required where the fabricator is approved in accordance with IBC Section 1704.2.5.2 4. Observe on a random basis, operations need not be delayed pending these inspections. Perform these tasks for each welded joint, bolted connection, or steel element. 5. NDT of welds completed in an approved fabricator's shop may be performed by that fabricator when approved by the AHJ. Refer to AISC 360, N7. 6. The fabricator of erector, as applicable, shall maintain a system by which a welder who has welded a joint or member can be identified. Stamps, if used, shall be the low-stress type. 7. 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 in. (75 mm) of weld. 8. QAI (quality assurance inspector) need not be present during the installation of fasteners when these methods are used by the installer. 9. QAI (quality assurance inspector) shall be engaged in their assigned inspection duties during installation of fasteners when these methods are used by the installer. 10. Refer to AISC 360, N6 for additional information regarding welding of steel deck or steel deck attached by fastening systems other than welding. 11. For welding of steel headed stud anchors, the provisions of AWS D1.1/D1.1M, Structural Welding Code - Steel, apply. 12. "Observe" shall mean to inspect these items on an intermittent basis. Operations need not be delayed pending these inspections. "Perform" shall mean to perform these tasks prior to final acceptance for each item or element.
Are Requirements for Seismic Resistance included in the Statement of Special Inspections? NO Are Requirements for Wind Resistance included in the Statement of Special Inspections? NO

JLA ENGINEERS INC. DOES NOT
PERFORM SPECIAL INSPECTIONS

PRELIMINARY
NOT FOR CONSTRUCTION



REVISION		
NO.	ISSUE	DATE



UNION BLOCK BUILDING
124 W WALNUT STR
ROGERS, ARKANSAS 72756

DRAWN BY: LCG CHECKED BY: LCG
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PROJECT #: 25-042

DATE: 1/30/2026

DRAWING: S9 SPECIAL INSPECTIONS
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DIVISION 22 - PLUMBING

NOTE: ALL SPECIFICATIONS MAY NOT APPLY

SUBMITTALS

1. Prior to procurement and if required by general contractor, contractor shall submit product data for review for all equipment, including the following:
- A. Plumbing fixtures.
 - B. Domestic water piping specialties.
 - C. Sanitary waste piping specialties.
 - D. Domestic water heaters.

SECTION 220523 - GENERAL-DUTY VALVES FOR PLUMBING PIPING

2.1 SYSTEM DESCRIPTION

- A. ASME Compliance:
 - 1. ASME B1.20.1 for threads for threaded end valves.
 - 2. ASME B16.18 for solder-joint connections.
- B. NSF Compliance: NSF 61 and NSF 372 for valve materials for potable-water service.

2.2 GENERAL-DUTY VALVES

- A. Valve Sizes: Same as upstream piping unless otherwise indicated.
- B. Valves in Insulated Piping: With 2-inch stem extensions.
- C. Two-Piece, Brass or Bronze Ball Valves with Full Port and Brass Trim:
 - 1. Description:
 - a. Standard: MSS SP-110.
 - b. CWP Rating: 600 psig.
 - c. Body Design: Two piece.
 - d. Body Material: Forged brass.
 - e. Ends: Threaded and soldered.
 - f. Seats: PTFE.
 - g. Stem: Brass.
 - h. Ball: Chrome-plated brass.
 - i. Port: Full.

3.1 INSTALLATION

- A. Locate valves for easy access and provide separate support where necessary.
- B. Install valves in horizontal piping with stem at or above center of pipe.
- C. Install valves in a position to allow full stem movement.

SECTION 220700 - PLUMBING INSULATION

2.1 PERFORMANCE REQUIREMENTS

- A. Insulation Installed Indoors: Flame-spread index of 25 or less, and smoke-developed index of 50 or less according to ASTM E 84.
- B. Insulation Installed Outdoors: Flame-spread index of 75 or less, and smoke-developed index of 150 or less according to ASTM E 84.

2.2 INSULATION MATERIALS

- A. Polyolefin: Unicellular, polyethylene thermal plastic insulation. Comply with ASTM C 534 or ASTM C 1427, Type I, Grade 1 for tubular materials and Type II, Grade 1 for sheet materials.

2.3 ADHESIVES

- A. Materials shall be compatible with insulation materials, jackets, and substrates and for bonding insulation to itself and to surfaces to be insulated unless otherwise indicated.
- B. Flexible Polyolefin Adhesive: Comply with MIL-A-24179A, Type II, Class I, VOC content of 50 g/L or less.

3.1 PIPE INSULATION INSTALLATION

- A. Comply with requirements of the Midwest Insulation Contractors Association's "National Commercial & Industrial Insulation Standards" for insulation installation on pipes and equipment.
- B. Insulation Installation at Interior Wall and Partition Penetrations (That Are Not Fire Rated): Install insulation continuously through walls and partitions.
- C. Insulation Installation at Fire-Rated Wall, Partition, and Floor Penetrations: Install insulation continuously through penetrations and seal to maintain fire rating.
- D. Polyolefin Insulation Installation:
 - 1. Seal split-tube longitudinal seams and end joints with adhesive to eliminate openings in insulation that allow passage of air to surface being insulated.
 - 2. Insulation Installation on Pipe Fittings and Elbows: Install mitered sections of polyolefin pipe insulation. Secure insulation materials and seal seams with adhesive to eliminate openings in insulation that allow passage of air to surface being insulated.
- E. Interior Piping System Applications: Insulate the following piping systems:
 - 1. Domestic hot water.
 - 2. Recirculated domestic hot water.

3.2 INDOOR PIPING INSULATION SCHEDULE

- A. Domestic Hot and Recirculated Hot Water:
 - 1. All Pipe Sizes-Insulation shall be the following:
 - a. Polyolefin: Minimum 1/2 inch thick.

SECTION 221116 - DOMESTIC WATER PIPING

2.1 PERFORMANCE REQUIREMENTS

- A. Potable-water piping and components shall comply with NSF 14 and NSF 61. Plastic piping components shall be marked with "NSF-pw."

2.2 PIPE AND FITTINGS

- A. Soft Copper Tubing: ASTM B 88, Types K and L (ASTM B 88 M, Types A and B), water tube, annealed temper with copper pressure fittings, cast-copper-alloy or wrought-copper, solder-joint fittings. Furnish wrought-copper fittings if indicated.
 - 1. Joining Materials: Use ASTM B 813, water-flushable, lead-free flux; ASTM B 32, lead-free-alloy solder.
- B. PEX Tube and Fittings: ASTM F 877, SDR 9 PEX tubing and ASTM F 1807, metal insert-type fittings with copper or stainless-steel crimp rings.
 - 1. Manifold: ASTM F 877 plastic or corrosion-resistant-metal assembly, with a plastic or corrosion-resistant-metal valve for each outlet.
- C. PVC Piping: ASTM D 1785, Schedule 40 pipe with ASTM D 2466, Schedule 40, socket-type fittings.

3.1 INSTALLATION

- A. Install piping free of sags and bends.
- B. Install unions at final connection to each piece of equipment.
- C. Install dielectric unions and flanges to connect piping materials of dissimilar metals in gas piping.
- D. Install dielectric coupling and nipple fittings to connect piping materials of dissimilar metals in water piping.
- E. Install shutoff valve, hose-end drain valve, and pressure gage, inside the building at each domestic water service entrance.
- G. Install domestic water piping without pitch for horizontal piping and plumb for vertical piping.
- H. Rough-in domestic water piping for water-meter installation according to utility company's requirements.

1. Pipe hanger and support devices:

- 1. Install vinyl-coated hangers for PEX piping with the following maximum horizontal spacing and minimum rod diameters:
 - a. NPS 1 and Smaller: 32 inches with 3/8-inch rod.
 - b. Install hangers for vertical PEX piping every 48 inches.
- 2. Install vinyl-coated hangers for PVC piping with the following maximum horizontal spacing and minimum rod diameters:
 - a. NPS 2 and Smaller: 48 inches with 3/8-inch rod.
 - b. NPS 2-1/2 to NPS 3-1/2: 48 inches with 1/2-inch rod.
 - c. Install supports for vertical PVC piping every 48 inches.

3.2 INSPECTING AND CLEANING

- A. Inspect and test piping systems as follows:
 - 1. Fill domestic water piping. Check components to determine that they are not air bound and that piping is full of water.
 - 2. Test for leaks and defects in new piping and parts of existing piping that have been altered, extended, or repaired.
- B. Clean and disinfect potable domestic water piping by filling system with water/chlorine solution with at least 50 ppm of chlorine. Isolate with valves and allow to stand for 24 hours. Flush system with clean, potable water until no chlorine is in water coming from system after the standing time.

3.3 PIPING SCHEDULE

- A. Underground, water-service piping: Type K Soft Copper Tubing, PEX Piping or Schedule 40 PVC.
- B. Under-building slab, domestic water piping: Type L Soft Copper Tubing or PEX piping.
- C. Aboveground domestic water piping: Type L Soft Copper Tubing or PEX piping.

SECTION 221119 - DOMESTIC WATER PIPING SPECIALTIES

2.1 GENERAL REQUIREMENTS FOR PIPING SPECIALTIES

- A. Potable-water piping and components shall comply with NSF 61 and NSF 14. Mark "NSF-pw" on plastic piping components.

2.2 MANUFACTURED UNITS

- A. Pipe-Applied, Atmospheric-Type Vacuum Breakers:
 - 1. Standard: ASSE 1001.
 - 2. Size, Body and Connection Type: As required to match connected piping.
- B. Reduced-Pressure-Principle Backflow Preventers:
 - 1. Standard: ASSE 1013.
 - 2. Refer to PLUMBING FIXTURE SCHEDULE.
- C. Thermostatic, Water Mixing Valves:
 - 1. Standard: ASSE 1070.
 - 2. Tempered-Water Setting: 110 deg F.
 - 3. Tempered-Water Design Flow Rate: As required for fixture being supplied.
- D. Water-Hammer Arresters:
 - 1. Standard: ASSE 1010 or PDI-WH 201.
 - 2. Type: Metal bellows or Copper tube with piston.
 - 3. Size: ASSE 1010, Sizes AA and A through F, or PDI-WH 201, Sizes A through F.

3.1 INSTALLATION

- A. Install backflow preventers in each water supply to mechanical equipment and systems and to other equipment and water systems that may be sources of contamination. Comply with authorities having jurisdiction.
- B. Install thermostatic, water mixing valves on hot water inlets to any public hand-washing fixture.
- C. Install water-hammer arresters in water piping according to PDI-WH 201.

3.2 FIELD QUALITY CONTROL

- A. Perform the following tests and inspections:
 - 1. Test each water piping specially as required and according to authorities having jurisdiction and the device's reference standard.

SECTION 221316 - SANITARY WASTE AND VENT PIPING

2.1 PERFORMANCE REQUIREMENTS

- A. Components and installation shall be capable of withstanding the following minimum working pressure unless otherwise indicated:
 - 1. Soil, Waste, and Vent Piping: 10-foot head of water.
 - 2. Waste, Force-Main Piping: 50 psig.
- B. Piping materials shall bear label, stamp, or other markings of specified testing agency.
- C. Comply with NSF/ANSI 14, "Plastics Piping Systems Components and Related Materials," for plastic piping components.

2.2 PIPES AND FITTINGS

- A. PVC Plastic, DWV Pipe and Fittings: ASTM D 2665, Schedule 40, plain ends with PVC socket-type, DWV pipe fittings.
 - 1. Adhesive Primer: ASTM F 656.
 - a. Adhesive primer shall have a VOC content of 550 g/L or less when calculated according to 40 CFR 59, Subpart D (EPA Method 24).
- 2. Solvent Cement: ASTM D 2564.
 - a. PVC solvent cement shall have a VOC content of 510 g/L or less when calculated according to 40 CFR 59, Subpart D (EPA Method 24).

3.1 PIPING INSTALLATION

- A. Install wall penetration system at each pipe penetration through foundation wall. Make installation watertight.
- B. Install PVC soil and waste drainage and vent piping according to ASTM D 2665.
- C. Install underground PVC soil and waste drainage piping according to ASTM D 2321.

3.2 PIPE SCHEDULE

- A. Aboveground Applications: PVC plastic, DWV pipe and fittings with solvent-cemented joints.
- B. Belowground Applications: PVC plastic, DWV pipe and drainage-pattern fittings with cemented joints.

SECTION 221319 - SANITARY WASTE PIPING SPECIALTIES

2.1 PERFORMANCE REQUIREMENTS

- A. Drainage piping specialties shall bear label, stamp, or other markings of specified testing agency.

2.2 CLEANOUTS

- A. Plastic Wall Cleanouts:
 - 1. Size: Same as connected branch.
 - 2. Body: PVC.
 - 3. Closure Plug: PVC.
 - 4. Wall Access: Round, flat, chrome-plated brass or stainless-steel cover plate with screw.
- B. Plastic Floor Cleanouts:
 - 1. Size: Same as connected branch.
 - 2. Body: PVC.
 - 3. Closure Plug: PVC.
 - 4. Riser: Drainage pipe fitting and riser to cleanout of same material as drainage piping.
- C. Plastic Floor Drains:
 - 1. Standard: ASME A112.6.3.
 - 2. Refer to PLUMBING FIXTURE SCHEDULE.

2.3 ROOF FLASHING ASSEMBLIES

- A. Roof Flashing Assemblies:
 - 1. Description: Manufactured assembly compatible with roof structure and material.

2.4 GREASE INTERCEPTORS

- A. Plastic Grease Interceptors:
 - 1. Description: ASME A112.14.4, for automatic intercepting and retaining of fats, oils, and greases from food-preparation or -processing wastewater.

3.1 INSTALLATION

- A. Install floor drains at low points of surface areas to be drained. Set grates of drains flush with finished floor unless otherwise indicated.
- B. Install roof flashing assemblies on sanitary stack vents and vent stacks that extend through roof.

SECTION 223300 - DOMESTIC-WATER HEATERS

2.1 PERFORMANCE REQUIREMENTS

- A. Comply with requirements of applicable NSF, AWWA, or FDA and EPA regulatory standards for tasteless and odorless, potable-water-tank linings.
- B. Comply with performance efficiencies prescribed in ASHRAE 90.1, "Energy Efficient Design of New Low-Rise Residential Buildings."

2.2 WATER HEATERS, GENERAL

- A. Insulation: Suitable for operating temperature and required insulating value. Include insulation material that surrounds entire tank except connections and controls.
- B. Anode Rods: Factory installed; magnesium.
- C. Combination Temperature and Pressure Relief Valve: ASME rated and stamped and complying with ASME PTC 25.3. Include relieving capacity at least as great as heat input and pressure setting less than water heater working-pressure rating. Select relief valve with sensing element that extends into tank.
- D. Drain Valve: Factory or field installed.

2.3 ELECTRIC WATER HEATERS

- A. Standard UL 174, or UL 1453 as applicable.
- B. Refer to WATER HEATER SCHEDULE.

2.4 GAS-FIRED WATER HEATERS

- A. Gas-Fired, Storage, Domestic-Water Heater:
 - 1. Standard ANSI Z21.10.1/CSA 4.1.
 - 2. Refer to WATER HEATER SCHEDULE.

3.1 INSTALLATION

- A. Maintain manufacturer's recommended clearances.
- B. Install temperature and pressure relief valves and extend to approved place of disposal.
- C. Install vacuum relief valves in cold-water-inlet piping.
- D. Install shutoff valves and unions at hot- and cold-water piping connections.
- E. Electrically ground units according to authorities having jurisdiction.

SECTION 224000 - PLUMBING FIXTURES

2.1 PERFORMANCE REQUIREMENTS

- A. Regulatory Requirements: Comply with requirements in ICC A117.1, "Accessible and Usable Buildings and Facilities"; Public Law 90-480, "Architectural Barriers Act"; and Public Law 101-336, "Americans with Disabilities Act"; for plumbing fixtures for people with disabilities.
- B. Regulatory Requirements: Comply with requirements in Public Law 102-486, "Energy Policy Act," about water flow and consumption rates for plumbing fixtures.
- C. NSF Standard: Comply with NSF 61, "Drinking Water System Components - Health Effects," for fixture materials that will be in contact with potable water.

2.2 PLUMBING FIXTURES

- A. Refer to PLUMBING FIXTURE SCHEDULE.

2.3 FITTINGS

- A. Supply Fittings:
 - 1. Standards: Comply with NSF/ANSI 61, "Drinking Water System Components - Health Effects," for faucet materials that will be in contact with potable water. ASME A112.18.1/CSA B125.1.
 - 2. Supply Piping: Chrome-plated-brass pipe or chrome-plated-copper tube matching water-supply piping size. Include chrome-plated wall flange.
 - 3. Stops: Chrome-plated brass, one-quarter-turn, ball-type or compression stop with inlet connection matching water-supply piping type and size.
 - 4. Risers: ASME A112.18.6, braided- or corrugated-stainless-steel flexible hose riser.
- B. Waste Fittings:
 - 1. Standard: ASME A112.18.2/CSA B125.2.
 - 2. Drain: Grid type with NPS 1-1/2 straight tailpiece unless noted otherwise.
 - 3. Trap Sizes: As required for connected fixture. Comply with local codes.
 - 4. Material: Chrome-plated, ASTM F 409 ABS or PVC, one or two-piece trap and waste to wall and wall flange.

3.1 INSTALLATION

- A. Install fitting/insulation kits on fixtures for people with disabilities. Maintain clearance requirements.
- B. Install fixtures with flanges and gasket seals.
- C. Install flushometer valves for accessible water closets and urinals with handle mounted on wide side of compartment. Install other actuators in locations that are easy for people with disabilities to reach.
- D. Install tanks for accessible, ball-type water closets with lever handle mounted on wide side of compartment.
- E. Install dishwasher air-gap fitting at each sink indicated to have air-gap fitting. Install in sink deck. Connect inlet hose to dishwasher and outlet hose to disposer.
- F. Install escutcheons at wall, floor, and ceiling penetrations in exposed, finished locations and within cabinets and millwork.
- G. Seal joints between fixtures and walls, floors, and counters using sanitary-type, one-part, mildew-resistant, silicone sealant. Match sealant color to fixture color.
- H. Install piping connections between plumbing fixtures and piping systems and plumbing equipment. Install insulation on supplies and drains of fixtures for people with disabilities. Maintain clearance requirements.

REMODEL PLUMBING NOTES

- EXISTING CONDITIONS ARE BASED ON AVAILABLE AS-BUILT DRAWINGS AND ENGINEER SITE SURVEY. CONTRACTOR TO VERIFY RELEVANT CONDITIONS PRIOR TO BIDDING. ENGINEER PROVIDES NO GUARANTEE OF ACCURACY OF THESE ELEMENTS.
- EXISTING WATER HEATERS AND PLUMBING FIXTURES SHALL BE NEW UNLESS NOTED OTHERWISE.
- EXISTING EQUIPMENT AND PLUMBING FIXTURES TO BE REUSED OR RELOCATED SHALL BE INSPECTED, REPAIRED (IF REQUIRED) AND CLEANED TO ENSURE A COMPLETE AND PROPER WORKING SYSTEM. REPLACE WITH LIKE UNIT IF REQUIRED.
- CONNECT NEW PLUMBING PIPE TO EXISTING WHERE SHOWN. IF MATERIALS ARE DIFFERENT, PROVIDE COMPATIBLE AND APPROVED COUPLING. EXISTING PIPE MAY BE REUSED IF ROUTING AND SIZE SUPPORTS NEW FIXTURE LAYOUT AND MEETS OR EXCEEDS CODE REQUIREMENTS.
- ALL PIPING TO BE REMOVED SHALL BE REMOVED TO BELOW FLOOR, ABOVE CEILING, OR IN WALLS BACK TO MAIN OR SHUT OFF VALVES AT MAINS AND PROPERLY CAPPED PER CODE WITHOUT LEAVING DEAD END PIPING.
- ALL PIPING IN DEMOLISHED WALLS IS TO BE REMOVED. REVISE PIPING AS REQUIRED TO KEEP EXISTING TO REMAIN SYSTEMS AND FIXTURES IN SERVICE INCLUDING PIPE SERVING ADJACENT SPACES.
- COORDINATE WITH GENERAL CONTRACTOR THE REMOVAL AND REPLACEMENT OF ALL EXISTING CEILINGS, WALLS, FLOORS ETC AS REQUIRED FOR DEMOLITION WORK.
- EXISTING PIPING, FIXTURES AND EQUIPMENT, NOT TO BE RELOCATED OR DESIGNATED TO BE TURNED OVER TO THE OWNER, SHALL BE REMOVED AND DISPOSED OF IN ACCORDANCE WITH APPLICABLE LAWS AND REGULATIONS.
- COORDINATE WITH OWNER FOR ALL REQUIRED OUTAGES.
- REFER TO ARCHITECTURAL DEMOLITION DRAWINGS FOR ADDITIONAL INFORMATION.

REMODEL PLUMB SYMBOLS

	APPROXIMATE POINT OF DISCONNECTION FROM EXISTING AND DEMO START
	APPROXIMATE POINT OF CONNECTION TO EXISTING
	PIPE OR SYSTEM TO BE DEMOLISHED
	PIPE OR SYSTEM EXISTING TO REMAIN (LINE PATTERN VARIES PER SYSTEM TYPE)

GENERAL PLUMBING NOTES

- VERIFY LOCATIONS AND DIMENSIONS OF ALL ARCHITECTURAL, CIVIL AND STRUCTURAL ELEMENTS AS SHOWN ON THEIR RESPECTIVE DOCUMENTS. THESE ELEMENTS ARE SHOWN FOR REFERENCE AND SHALL BE VERIFIED PRIOR TO CONSTRUCTION AND THE ENGINEER ASSUMES NO LIABILITY FOR THE ACCURACY OF THESE ELEMENTS.
- PLUMBING SYSTEMS SHALL BE INSTALLED AND TESTED USING MATERIALS AND PROCEDURES IN ACCORDANCE WITH ALL STATE AND LOCAL CODES, LAWS AND/OR REGULATIONS AND AUTHORITIES HAVING JURISDICTION. SHOULD THERE BE ANY DIRECT CONFLICT BETWEEN CODES AND THE DRAWINGS AND/OR SPECIFICATIONS, THE CODES, LAWS OR REGULATIONS SHALL GOVERN. ALL MATERIAL, EQUIPMENT INSTALLATION AND OPERATION SHALL BE IN FULL COMPLIANCE WITH MANUFACTURER'S SPECIFICATION AND REQUIREMENTS.
- CONTRACTOR SHALL PAY FOR ALL PERMITS, LICENSES AND FEES REQUIRED BY STATE AND LOCAL AUTHORITIES INCLUDING CONNECTION FEES FOR UTILITY HOOKUPS. ALL WORK SHALL BE INSPECTED AS REQUIRED BY THE AUTHORITY HAVING JURISDICTION. FURNISH INSPECTION AND APPROVAL LETTERS TO OWNER.
- EXACT LOCATION OF PLUMBING FIXTURES SHALL BE DETERMINED FROM ARCHITECTURAL DRAWINGS.
- ALL WORK AND MATERIALS ARE SUBJECT TO FIELD OBSERVATION AT ANY TIME BY OWNER'S REPRESENTATIVE.
- EQUIPMENT SHALL BE NEW UNLESS NOTED OTHERWISE AND PROVIDED COMPLETE WITH ALL ACCESSORIES, HANGERS, SUPPORTS AND CONTROLS FOR A FULLY FUNCTIONING SYSTEM REGARDLESS OF PRESENCE ON PLANS.
- THESE DRAWINGS ARE DIAGRAMMATIC AND SHOW GENERAL LOCATION AND ARRANGEMENT OF ALL MATERIALS AND EQUIPMENT. DRAWINGS SHALL BE FOLLOWED AS CLOSELY AS BUILDING CONSTRUCTION AND ALL OTHER WORK WILL PERMIT.
- ALL DOMESTIC COLD WATER, HOT WATER & HOT WATER CIRCULATING PIPING SHALL BE INSULATED TO MEET ENERGY CODE MINIMUMS. INSULATION SHALL BE CONTINUOUS THROUGH WALLS, FLOORS & PARTITIONS. INSTALL ALL WATER LINES ON EXTERIOR WALLS, INCLUDING LINES IN ATTIC OR ROOF, ON WARM SIDE (INSIDE) OF INSULATION.
- PROVIDE AN APPROVED FIRE STOP ASSEMBLY FOR ANY PIPING PENETRATING RATED ASSEMBLIES.
- ANY MATERIALS ROUTED THROUGH AIR PLENUMS SHALL BE PLENUM-RATED.
- PROVIDE WATER HAMMER ARRESTORS FOR ALL SOLENOID VALVES AND QUICK CLOSING VALVES ON LINES OVER 1/2". ZURN Z1700 OR EQUIVALENT.
- PROVIDE ASSE 1070 COMPLIANT DEVICE ON ANY PUBLIC HAND-WASHING FIXTURES. SET TEMPERATURE TO 110 DEG F OR LESS. MULTIPLE FIXTURES MAY BE CONNECTED DOWNSTREAM OF THE SAME DEVICE AS LONG AS DEVICE IS SIZED FOR THE MAXIMUM FLOW OF ALL CONNECTED FIXTURES. ZURN AQUA-GUARD ZW3870XL OR EQUIVALENT.

PLUMBING SYMBOLS

	ELBOW DOWN
	ELBOW UP
	TEE DOWN
	TEE UP
	FULL PORT BALL VALVE
	HOT WATER CIRCULATION PUMP
	DESIGNATES SERVICE ENTRY. REF SITE UTILITY PLAN FOR ROUTING FROM METER TO SERVICE ENTRY LOCATION
	COLD WATER LINE (CW)
	HOT WATER LINE (HW)
	HOT WATER RETURN LINE (HWR)
	DOMESTIC WATER SUPPLY PIPE UNDERSLAB OR BELOW FLOOR
	SANITARY SEWER PIPE (SS)
	GREASE WASTE PIPE (GW)
	VENT PIPE (V)
	FUEL GAS PIPE (G)

CLIENT:



CONSULTANT:



JAN 30, 2026

UNION BLOCK BUILDING

124 W WALNUT ST., ROGERS, AR 72756

ISSUE:

MARK	DATE	DESCRIPTION	PERMIT SET
0	01/30/2026		

PROJECT NUMBER: 250809

DRAWN BY: KNJ

CHECKED BY: KNJ

SHEET TITLE:

PLUMBING SPECIFICATIONS

P-001

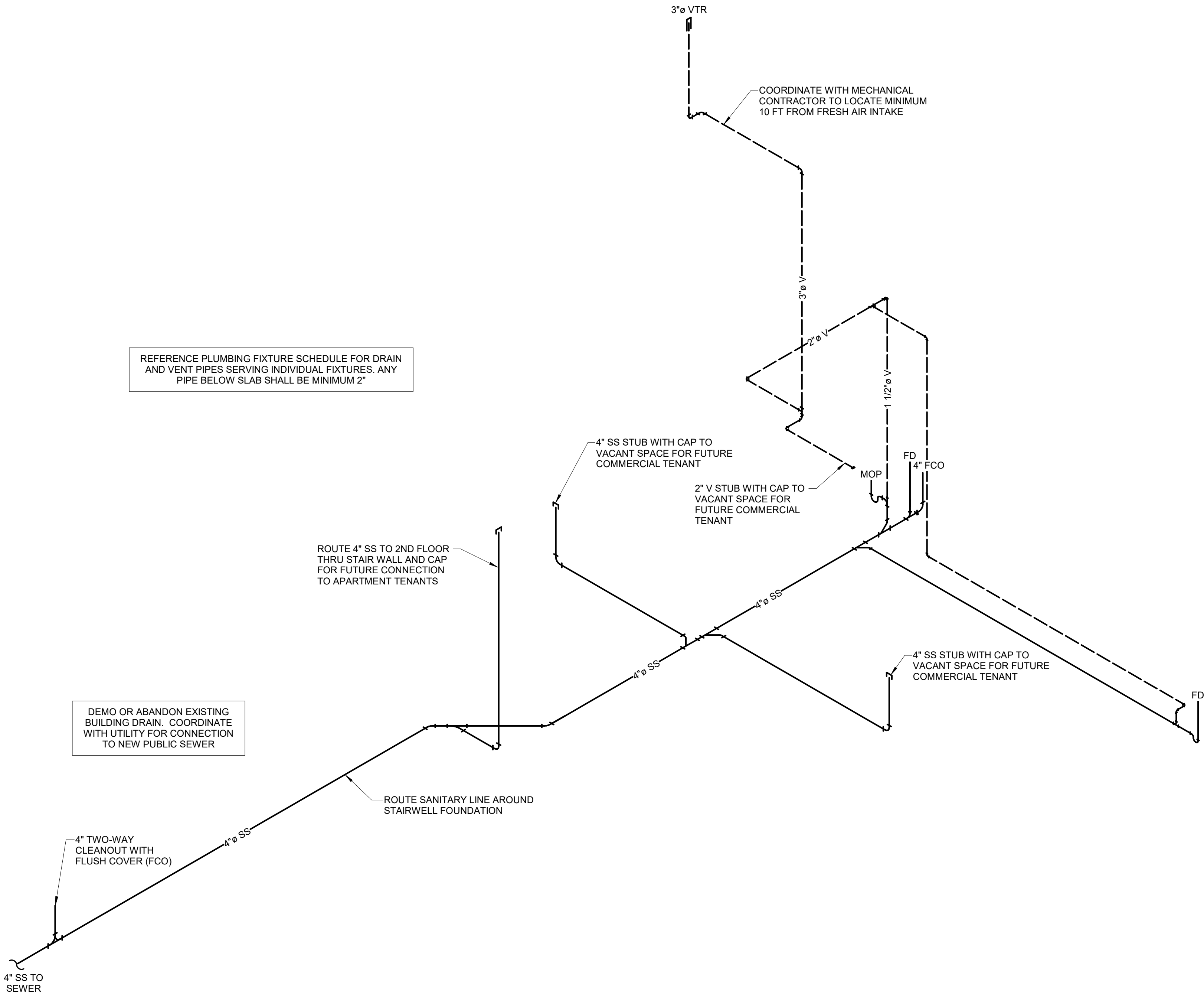


- 124 W WALNUT ST, ROGERS, AR 72756

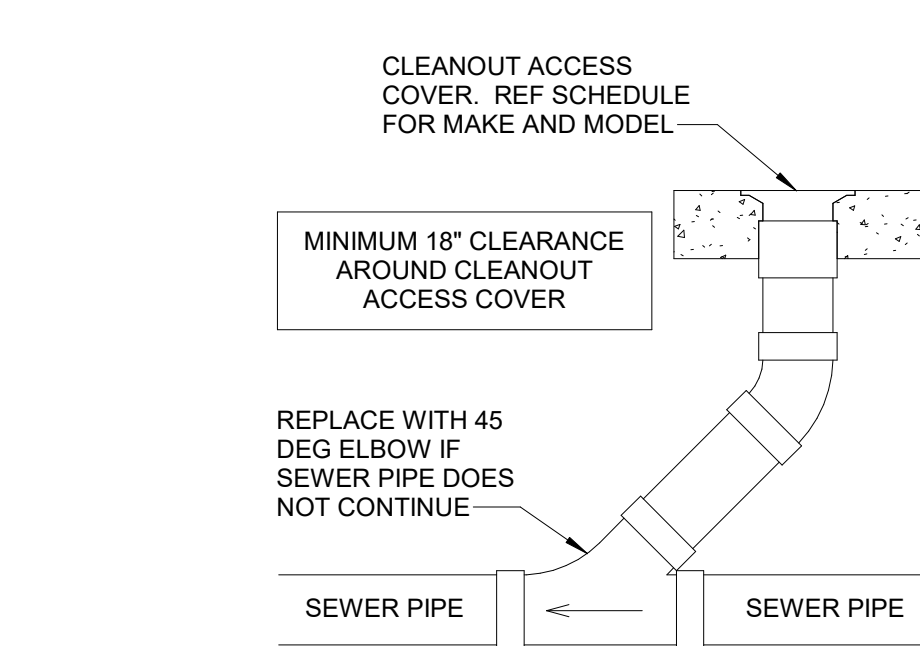
P-101

PLUMBING FIXTURE SCHEDULE								
MARK	FIXTURE NAME	MANUFACTURER	MODEL	DESCRIPTION	CONNECTION SIZE (IN)			
					COLD	HOT	WASTE	VENT
FCO	ADJUSTABLE FLOOR CLEAN OUT	ZURN	Z1400-BZ1	DURA-COATED CAST IRON BODY WITH BOTTOM OUTLET, GAS AND WATERTIGHT PVC TAPERED THREAD PLUG, POLISHED BRONZE TOP (ZB).	--	--	MATCH PLANS	--
FD	ADJUSTABLE FLOOR DRAIN	ZURN	Z415-BZ1	GENERAL PURPOSE FLOOR DRAIN, CAST IRON BODY COMPATIBLE WITH PLASTIC PIPE CONNECTION, COORDINATE STRAINER MATERIAL WITH ARCH/OWNER. TRAP GUARD: ZURN ZSHIELD BARRIER TRAP SEAL DEVICE FOR FLOOR DRAINS, MODEL Z1072.	--	--	2	1-1/2
MOP	MOP SERVICE BASIN	ZURN	1996-24	MOP SERVICE BASIN 24 X 24 X 10, MOLDED HIGH DENSITY COMPOSITE BASIN, PVC DRAIN BODY, STAINLESS STEEL STRAINER AND 3" GASKETED OUTLET CONNECTION. FAUCET: ZURN CHROME PLATED SERVICE FAUCET, COMPLETE WITH VACUUM BREAKER, INTEGRAL STOPS, ADJUSTABLE WALL BRACE, PAIL HOOK, FOUR-ARM HOT AND COLD HANDLES AND 3/4" HOSE THREAD ON SPOUT, MODEL Z1996-SF.	1/2	1/2	3	1-1/2
RPZA	REDUCED PRESSURE ZONE ASSEMBLY	WILKINS	975XL3	LEAD FREE REDUCED PRESSURE PRINCIPLE BACKFLOW PREVENTER, CERTIFIED TO NSF/ANSI 61, NSF/ANSI 372, ASSE LISTED 1013 AND APPROVED BY THE FOUNDATION FOR CROSS CONNECTION CONTROL AT UNIVERSITY OF SOUTHERN CALIFORNIA, RATED TO 180°F, SUPPLIED WITH FULL PORT ISOLATION VALVES. INCLUDE BRONZE "Y" TYPE STRAINER AND AIR GAP ADAPTER.	2	--	--	--

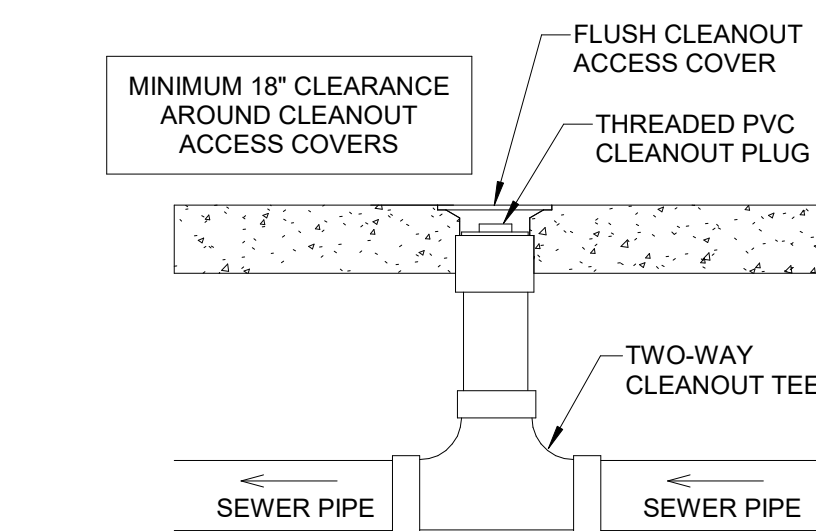
ELECTRIC, DOMESTIC-WATER HEATER SCHEDULE															
MARK	DESCRIPTION	BASIS OF DESIGN		STORAGE CAPACITY (GAL)	RECOVERY AT 60 DEG F RISE (GPH)	TEMPERATURE SETTING (DEG F)	POWER DEMAND (KW)	HEATING ELEMENTS			ELECTRICAL DATA				NOTES
		MANUFACTURER	MODEL					NUMBER OF ELEMENTS	KW EACH ELEMENT	NUMBER OF STAGES	VOLTS	PHASES	FLA	MCA	
WH	ELECTRIC, STORAGE, WATER HEATER	RHEEM	EGSP10	10	10	120	1.5	1	1.5	1	120	1	12.5	15.6	MEETS ASHRAE ENERGY FACTOR REQUIREMENTS.



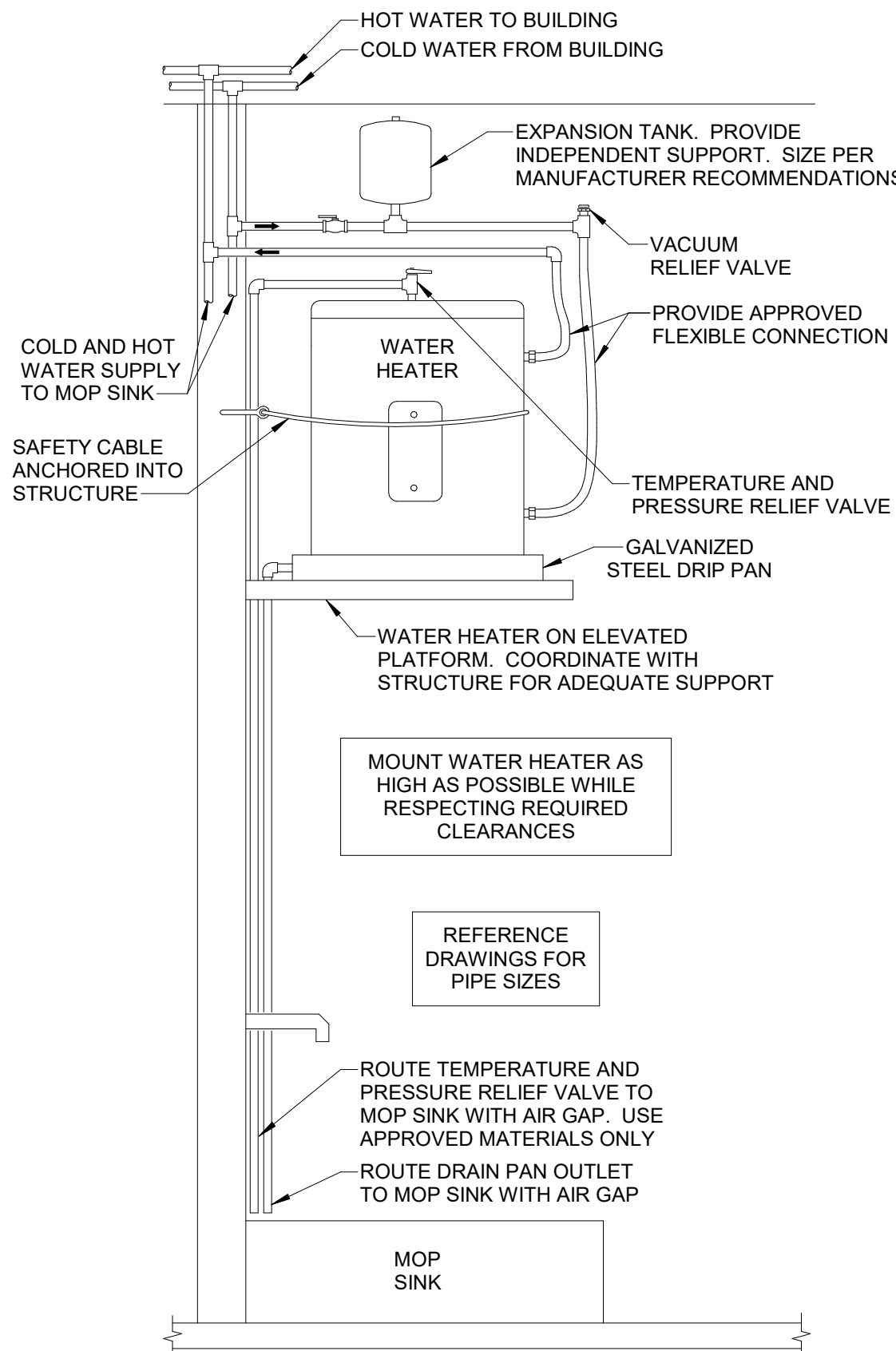
3 PLUMBING WASTE/VENT RISER DIAGRAM
NTS



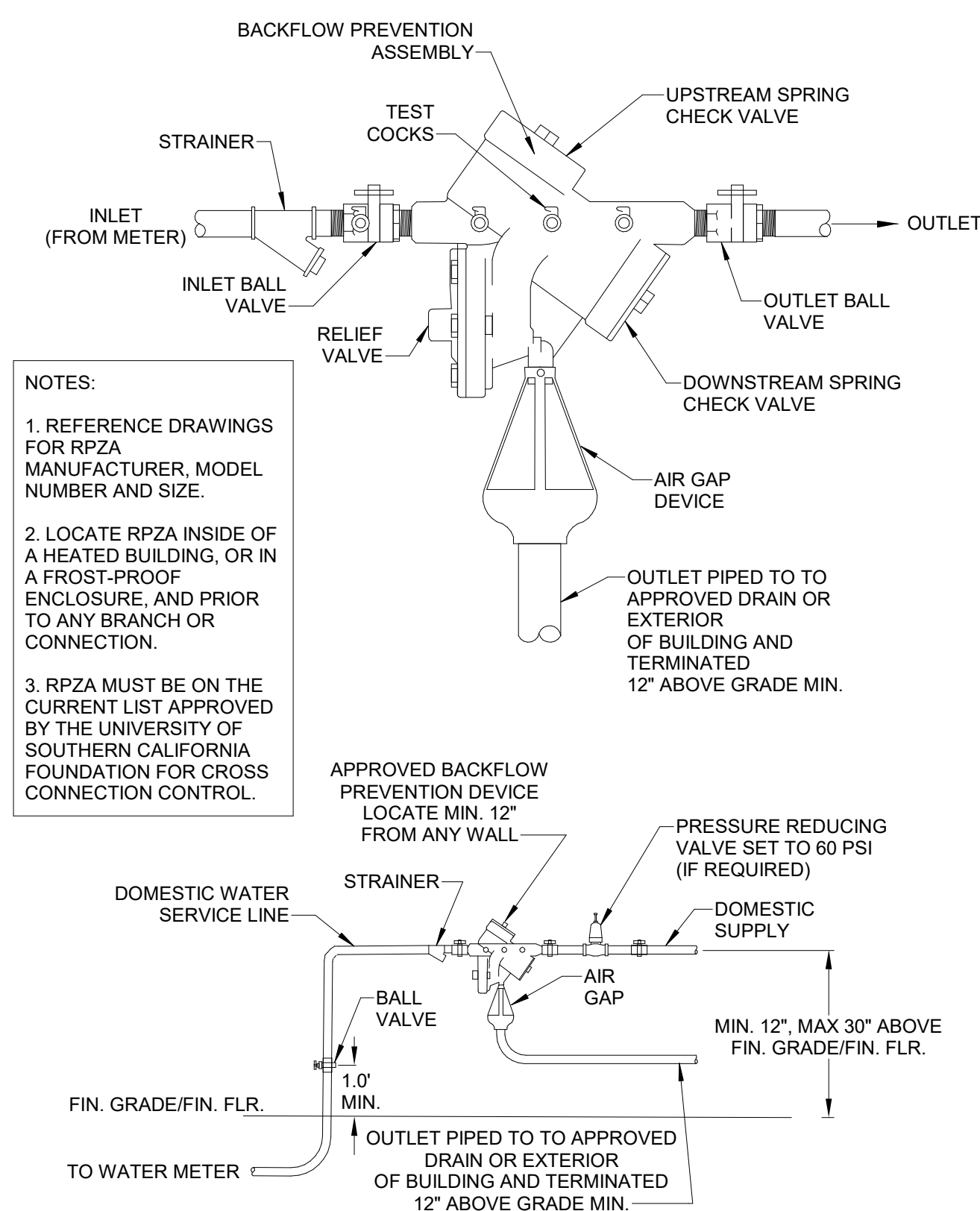
5 FLOOR CLEANOUT
NTS



4 TWO-WAY CLEANOUT TO GRADE
NTS



2 ELECTRIC WATER HEATER ABOVE MOP SINK
NTS



1 REDUCED PRESSURE ZONE ASSEMBLY (RPZA)
NTS

DIVISION 23 - MECHANICAL

NOTE: ALL SPECIFICATIONS MAY NOT APPLY

SUBMITTALS

1. Prior to procurement and if required by general contractor, contractor shall submit product data for review for all equipment, including the following:
- A. Split systems (air handling units & condensing units).
 - B. Exhaust and Supply fans.
 - C. Diffusers, registers and grilles.
 - D. Unit heaters.

SECTION 230593 - TESTING, ADJUSTING, AND BALANCING FOR HVAC

3.1 GENERAL PROCEDURES FOR TESTING AND BALANCING

- A. Perform testing and balancing procedures on each system according to the procedures contained in AABC's "National Standards for Total System Balance," ASHRAE 111, NEBB's "Procedural Standards for Testing, Adjusting, and Balancing of Environmental Systems" or SMACNA's "HVAC Systems - Testing, Adjusting, and Balancing" and in this Section.
- B. Mark equipment and balancing devices, including damper-control positions, valve position indicators, fan-speed-control levers, and similar controls and devices, with paint or other suitable, permanent identification material to show final settings.

3.2 TOLERANCES

- A. Set HVAC system airflow and water flow rates within the following tolerances:
 - 1. Supply, Return, and Exhaust Fans and Equipment with Fans: Plus or minus 10 percent
 - 2. Air Outlets and Inlets: Plus or minus 10 percent.

SECTION 230700 - HVAC INSULATION

2.1 PERFORMANCE REQUIREMENTS

- A. Surface-Burning Characteristics:
 - 1. Indoor Insulation and Related Materials: To be factory-labeled designating maximum flame-spread index of 25 or less and smoke-developed index of 50 or less according to ASTM E 84.
 - 2. Outdoor Insulation and Related Materials: To be factory labeled designating maximum flame-spread index of 75 or less and smoke-developed index of 150 or less according to ASTM E 84.

2.2 INSULATION MATERIALS

- A. Mineral-Fiber Blanket Insulation: Comply with ASTM C 553, Type II and ASTM C 1290, Type I.

3.1 INSULATION INSTALLATION

- A. Insulation Installation at Interior Wall and Partition Penetrations (That Are Not Fire Rated): Install insulation continuously through walls and partitions.
- B. Insulation Installation at Fire-Rated Wall, Partition, and Floor Penetrations: Install insulation continuously through penetrations.
- C. Mineral-Fiber Insulation Installation:
 - 1. Blanket and Board Insulation Installation on Ducts and Plenums: Secure with adhesive and insulation pins.
 - 2. For ducts and plenums with surface temperatures below ambient, install a continuous, unbroken vapor barrier.
- D. Plenums and Ducts Requiring Insulation:
 - 1. Concealed and exposed supply and outdoor air.
 - 2. Concealed and exposed return air located in nonconditioned space.
 - 3. Concealed and exposed exhaust between isolation damper and penetration of building exterior.
- E. Plenums and Ducts Not Insulated:
 - 1. Metal ducts with duct liner.
 - 2. Factory-insulated plenums and casings.
 - 3. Flexible connectors.
 - 4. Vibration-control devices.
 - 5. Factory-insulated access panels and doors.

3.2 DUCT AND PLENUM INSULATION SCHEDULE

- A. Concealed duct insulation shall be one of the following:
 - 1. Mineral-Fiber Blanket: 1-1/2 inches thick and 1.5-lb/cu. ft. nominal density
- B. Exposed duct insulation shall be one of the following:
 - 1. Fibrous-Glass Liner Duct liner: 1 inch thick.
 - 2. Interstitial insulation between double wall duct: Maximum thermal conductivity of 0.27 Btu x in./h x sq. ft. x deg F at 75 deg F mean temperature.

SECTION 232113 - PIPING

2.1 PERFORMANCE REQUIREMENTS

- A. Hydronic piping components and installation shall be capable of withstanding the following minimum working pressure and temperature:
 - 1. Condensate-Drain Piping: 150 deg F.

2.2 PIPES, TUBES, AND FITTINGS

- A. CPVC Pipe: ASTM F 441/F 441M, Schedule 40, plain ends with ASTM F 438, socket-type solvent welding fittings. Suitable for installation within plenums.
 - 1. CPVC solvent cement shall have a VOC content of 490 g/L or less when calculated according to 40 CFR 59, Subpart D (EPA Method 24).
- 2. Adhesive primer shall have a VOC content of 550 g/L or less when calculated according to 40 CFR 59, Subpart D (EPA Method 24).
- B. Soft Copper Tubing: ASTM B88, Types K and L (ASTM B689, Types A and B), water tube, annealed temper with copper pressure fittings, cast-copper-alloy or wrought-copper, solder-joint fittings. Furnish wrought-copper fittings if indicated.
 - 1. Joining Materials: Use ASTM B813, water-flushable, lead-free flux; ASTM B32, lead-free alloy solder.
- C. PVC Pipe: ASTM D 1785, Schedule 40, plain ends with ASTM F 438, socket-type solvent welding fittings.
 - 1. PVC solvent cement shall have a VOC content of 510 g/L or less when calculated according to 40 CFR 59, Subpart D (EPA Method 24).
 - 2. Adhesive primer shall have a VOC content of 550 g/L or less when calculated according to 40 CFR 59, Subpart D (EPA Method 24).

3.1 INSTALLATION

- A. Install piping in concealed locations unless otherwise indicated and except in equipment rooms and service areas.
- B. Install piping free of sags and bends and install fittings for changes in direction and branch connections.
- C. Install piping at a uniform slope of 0.2 percent downward in the direction of flow.
- D. Sleeve-Seal-System Installation:
 - 1. Install sleeve-seal systems in sleeves in exterior concrete walls and slabs-on-grade at piping entries into building.
 - 2. Select type, size, and number of sealing elements required for piping material and size and for sleeve ID or hole size.

3.2 PIPING SCHEDULE

- A. Condensate Drain Lines:
 - 1. Within Plenum: CPVC pipe with solvent-welded joints.
 - 2. Other: PVC pipe with solvent-welded joints.

SECTION 233100 - HVAC DUCTS AND CASINGS

2.1 PERFORMANCE REQUIREMENTS

- A. Comply with SMACNA's "HVAC Duct Construction Standards - Metal and Flexible."
- C. Airstream Surfaces: Surfaces in contact with the airstream shall comply with requirements in ASHRAE 62.1.
- E. ASHRAE/IESNA Compliance: Applicable requirements in ASHRAE/IESNA 90.1, Section 6.4.4.4 - "HVAC System Construction and Insulation."
- F. Comply with NFPA 90A, "Installation of Air Conditioning and Ventilating Systems" and with NFPA 90B, "Installation of Warm Air Heating and Air Conditioning Systems."
- G. Comply with NFPA 96 for ducts connected to commercial kitchen hoods.
- H. Comply with UL 181 for ducts and closures.

2.2 DUCTS

- A. Galvanized-Steel Sheet: ASTM A 653/A 653M, with G60 hot-dip galvanized coating.
 - 1. Galvanized Coating Designation: G60.
 - 2. Finishes for Surfaces Exposed to View: Mill phosphatized or suitable for painting as per Architect
- B. Joint and Seam Tape, and Sealant: Comply with UL 181A.
- C. Rectangular Metal Duct Fabrication: Comply with SMACNA's "HVAC Duct Construction Standards - Metal and Flexible."
- D. Fibrous-Glass Liner: Comply with NFPA 90A or NFPA 90B and with NAIMA AH124.
 - 1. Thickness: 1 inch.
 - 2. Airstream surface coated with an antimicrobial erosion-resistant coating.
 - 3. Liner Adhesive: Comply with NFPA 90A or NFPA 90B and with ASTM C 916.
 - 4. Mechanical Fasteners: Galvanized steel suitable for adhesive attachment, mechanical attachment, or welding attachment.

2.3 ACCESSORIES

- A. Volume Dampers and Control Dampers: Single-blade and multiple opposed-blade dampers, standard leakage rating, and suitable for horizontal or vertical applications; factory fabricated and complete with required hardware and accessories.
- B. Fire Dampers: Rated and labeled according to UL 555 by an NRTL; factory fabricated and complete with required hardware and accessories.
- C. Ceiling Fire Dampers: Labeled according to UL 555C by an NRTL and complying with construction details for tested floor- and roof-ceiling assemblies as indicated in UL's "Fire Resistance Directory." Provide factory-fabricated units complete with required hardware and accessories.
- D. Smoke Dampers: Labeled according to UL 555S by an NRTL. Combination fire and smoke dampers shall also be rated and labeled according to UL 555. Provide factory-fabricated units complete with required hardware and accessories.
- E. Flexible Connectors: Flame-retarded or noncombustible fabrics, coatings, and adhesives complying with UL 181, Class 1.
- F. Flexible Ducts: Factory-fabricated, insulated, round duct, with an outer jacket enclosing 1-inch-thick, glass-fiber insulation around a continuous inner liner complying with UL 181, Class 1.

3.1 INSTALLATION

- A. Install ducts according to SMACNA's "HVAC Duct Construction Standards - Metal and Flexible" unless otherwise indicated.
- B. Seal ducts to the following seal classes according to SMACNA's "HVAC Duct Construction Standards - Metal and Flexible":
 - 1. Outdoor, Supply-Air Ducts: Seal Class A.
 - 2. Outdoor, Exhaust Ducts: Seal Class C.
 - 3. Outdoor, Return-Air Ducts: Seal Class C.
 - 4. Unconditioned Space, Supply-Air Ducts in Pressure Classes 2-Inch wg and Lower: Seal Class B.
 - 5. Unconditioned Space, Supply-Air Ducts in Pressure Classes Higher Than 2-Inch wg: Seal Class A.
 - 6. Unconditioned Space, Exhaust Ducts: Seal Class C.
 - 7. Unconditioned Space, Return-Air Ducts: Seal Class B.
 - 8. Conditioned Space, Supply-Air Ducts in Pressure Classes 2-Inch wg and Lower: Seal Class C.
 - 9. Conditioned Space, Supply-Air Ducts in Pressure Classes Higher than 2-Inch wg: Seal Class B.
 - 10. Conditioned Space, Exhaust Ducts: Seal Class B.
 - 11. Conditioned Space, Return-Air Ducts: Seal Class C.
- C. Conceal ducts from view in finished and occupied spaces unless otherwise indicated.
- D. Exposed duct shall be square or round as shown on plans with duct liner or double wall with interstitial insulation.
- E. Avoid passing through electrical equipment spaces and enclosures.
- F. Support ducts to comply with SMACNA's "HVAC Duct Construction Standards - Metal and Flexible," Ch. 4, "Hangers and Supports."
- G. Install duct accessories according to applicable details in SMACNA's "HVAC Duct Construction Standards - Metal and Flexible" for metal ducts.
- H. Install volume and control dampers in lined duct with methods to avoid damage to liner and erosion of duct liner.
- I. Install fire and smoke dampers according to UL listing. Provide access panel as required.
- J. Install flexible links in fire dampers.
- K. Clean new and existing duct system(s) before testing, adjusting, and balancing.

SECTION 233423 - HVAC POWER VENTILATORS

2.1 PERFORMANCE REQUIREMENTS

- A. Products shall be licensed to use the AMCA-Certified Ratings Seal.
- B. Roof-mounted, wall-mounted, duct fans and dryer exhaust power ventilators shall comply with UL 705.
- C. Electrical Components, Devices, and Accessories: Listed and labeled as defined in NFPA 70, by a qualified testing agency, and marked for intended location and application.

2.2 POWER VENTILATORS

- A. Refer to FAN SCHEDULE.

3.1 INSTALLATION

- A. Install units with clearances for service and maintenance.
- B. Roof-Mounted Units: Install roof curb on roof structure, according to ARI Guideline B or NRCA's "Low-Slope Membrane Roofing Construction Details Manual." Illustration "Raised Curb Detail for Rooftop Air Handling Units and Ducts." Install and secure roof-mounted fans on curbs, and coordinate roof penetrations and flashing with roof construction.
- C. In-Line Centrifugal Fans: Suspend units from structural-steel support frame using threaded steel rods and vibration isolation springs.
- D. Ceiling-Mounted Units: Suspend units from structure using steel wire or metal straps.
- E. Ground power ventilators.

SECTION 233713 - DIFFUSERS, REGISTERS, AND GRILLES

2.1 DIFFUSERS, REGISTERS AND GRILLES

- A. Refer to AIR DEVICE SCHEDULE.

3.1 INSTALLATION

- A. Ceiling-Mounted Outlets and Inlets: Drawings indicate general arrangement of ducts, fittings, and accessories. Make final locations where indicated, as much as practical. For units installed in lay-in ceiling panels, locate units in the center of panel unless otherwise indicated. Where architectural features or other items conflict with installation, notify Architect for a determination of final location.
- B. After installation, adjust diffusers, registers, and grilles to air patterns indicated, or as directed, before starting air balancing.

SECTION 235413 - ELECTRIC-RESISTANCE FURNACES

1.1 QUALITY ASSURANCE

- A. ASHRAE/IES 90.1 Compliance: Applicable requirements in ASHRAE/IES 90.1, Section 6 - "Heating, Ventilating, and Air-Conditioning."
- B. Comply with NFPA 70.

2.1 ASSEMBLY DESCRIPTION

- A. Factory assembled, piped, wired, and tested.
- B. Electrical Components, Devices, and Accessories: Listed and labeled as defined in NFPA 70, Article 100, by a qualified testing agency, and marked for intended location and application.

2.2 FURNACES

- A. Refer to AIR HANDLING UNIT SCHEDULE.

2.3 THERMOSTATS

- A. Controls shall comply with requirements in ASHRAE/IES 90.1, "Controls."
- B. Single-Stage, Heating-Cooling Thermostat: Adjustable, heating-cooling, wall-mounted unit with fan on-automatic selector.
- C. Control Wiring: Balanced twisted pair cabling.
 - 1. Description: Unshielded twisted pairs (UTP), No. 24 AWG, 100 ohm, four pair.

2.4 AIR FILTERS

- A. Disposable Filters: 1-inch-thick fiberglass media with ASHRAE 52.2 MERV rating of 8 or higher, in sheet metal frame.

2.5 REFRIGERATION COMPONENTS

- A. General Refrigeration Component Requirements:
 - 1. Refrigeration compressor, coils, and specialties shall be designed to operate with CFC-free refrigerants.
 - 2. Energy Efficiency: Equal to or greater than prescribed by ASHRAE/IES 90.1.
- B. Refrigerant Line Kits: Annealed-copper suction and liquid lines factory cleaned, dried, pressurized with nitrogen, sealed, and with suction line insulated. Provide in standard lengths for installation without joints, except at equipment connections.
 - 1. Flexible Elastomeric: Closed-cell, sponge- or expanded-rubber materials. Comply with ASTM C 534/C 534M, Type I, minimum 1 inch thick.
- C. Air-Cooled Compressor-Condenser Unit:
 - 1. Refer to AIR-TO-AIR CONDENSING UNIT SCHEDULE for units without heat-pump components.
 - 2. Refer to AIR-TO-AIR HEAT PUMP UNIT SCHEDULE for units with heat-pump components.

3.1 EXAMINATION

- A. Examine roughing-in for refrigerant piping systems to verify actual locations of piping connections before equipment installation.

3.2 INSTALLATION

- A. Suspended Units: Suspend from structure using threaded rods, spring hangers, and building attachments. Secure rods to unit hanger attachments. Adjust hangers so unit is level and plumb.
- B. Controls: Install thermostats and humidistats at mounting height of 60 inches above floor or as shown on plans.
- C. Wiring Method: Install control wiring in accessible ceiling spaces and in gypsum board partitions where unenclosed wiring method may be used. Conceal control wiring except in unfinished spaces.

3.3 CONNECTIONS

- A. Install piping adjacent to equipment to allow service and maintenance.
- B. Connect refrigerant tubing kits to refrigerant coil in furnace and to air-cooled compressor-condenser unit using one of the following methods.
 - 1. Flared Joints: Use ASME B16.26 fitting and flared ends, following procedures in CDA's "Copper Tube Handbook."
 - 2. Brazed Joints: Construct joints according to AWS's "Brazing Handbook," "Pipe and Tube" Chapter, using copper-phosphorus brazing filler metal complying with AWS A5.8/A5.8M.

3.4 ADJUSTING

- A. Adjust initial temperature set points.
- B. Set controls, burner, and other adjustments for optimum heating performance and efficiency. Adjust heat-distribution features, including shutters, dampers, and relays, to provide optimum heating performance and system efficiency.

SECTION 238239 - UNIT HEATERS

2.1 PERFORMANCE REQUIREMENTS

- A. Assembly including chassis, electric heating coil, fan, motor, and controls. Comply with UL 2021.
- B. Electrical Components, Devices, and Accessories: Listed and labeled as defined in NFPA 70, by a qualified testing agency, and marked for intended location and application.

2.2 WALL AND CEILING UNIT HEATERS

- A. Refer to UNIT HEATER SCHEDULE

3.1 INSTALLATION

- A. Install wall and ceiling unit heaters to comply with NFPA 90A.
- B. Install wall-mounted thermostats and switch controls in electrical outlet boxes at heights to match lighting controls. Verify location of thermostats and other exposed control sensors with Drawings and room details before installation.

REMODEL MECH NOTES

- EXISTING CONDITIONS ARE BASED ON AVAILABLE AS-BUILT DRAWINGS AND ENGINEER SITE SURVEY. CONTRACTOR TO VERIFY RELEVANT CONDITIONS PRIOR TO BIDDING. ENGINEER PROVIDES NO GUARANTEE OF ACCURACY OF THESE ELEMENTS.
- ALL MECHANICAL EQUIPMENT AND AIR DEVICES (GRILLES, REGISTERS, DIFFUSERS, ETC) SHALL BE NEW UNLESS NOTED OTHERWISE.
- EXISTING TO REMAIN OR RELOCATED MECHANICAL EQUIPMENT AND AIR DEVICES SHALL BE INSPECTED, REPAIRED (IF REQUIRED) AND CLEANED TO ENSURE A COMPLETE AND PROPER WORKING SYSTEM. REPLACE WITH LIKE EQUIPMENT OR DEVICE IF REQUIRED.
- CONNECT NEW DUCT TO EXISTING WHERE SHOWN. EXISTING DUCT MAY BE REUSED IF ROUTING AND SIZE SUPPORTS NEW LAYOUT AND MEETS OR EXCEEDS CODE REQUIREMENTS. CONTRACTOR TO INSPECT, SEAL, INSULATE AND CLEAN AS REQUIRED TO ENSURE A COMPLETE AND PROPER WORKING SYSTEM.
- ALL PIPING AND DUCT TO BE REMOVED SHALL BE REMOVED TO BELOW FLOOR, ABOVE CEILING, OR IN WALLS BACK TO MAIN OR SHUT OFF VALVES AT MAINS AND PROPERLY CAPPED OR PATCHED PER CODE WITHOUT LEAVING DEAD END PIPING.
- COORDINATE WITH GENERAL CONTRACTOR THE REMOVAL AND REPLACEMENT OF ALL EXISTING CEILINGS, WALLS, FLOORS ETC AS REQUIRED FOR DEMOLITION WORK.
- EXISTING PIPING, DUCT, FIXTURES, CONTROLS AND EQUIPMENT, NOT TO BE RELOCATED OR DESIGNATED TO BE TURNED OVER TO THE OWNER, SHALL BE REMOVED AND DISPOSED OF IN ACCORDANCE WITH APPLICABLE LAWS AND REGULATIONS.
- REFER TO ARCHITECTURAL DEMOLITION DRAWINGS FOR ADDITIONAL INFORMATION.

REMODEL MECH SYMBOLS

	APPROXIMATE POINT OF DISCONNECTION FROM EXISTING AND DEMO START
	APPROXIMATE POINT OF CONNECTION TO EXISTING
	DUCT, DEVICE OR SYSTEM TO BE DEMOLISHED
	DUCT, DEVICE OR SYSTEM EXISTING TO REMAIN

GENERAL MECH NOTES

- VERIFY LOCATIONS AND DIMENSIONS OF ALL ARCHITECTURAL, CIVIL AND STRUCTURAL ELEMENTS AS SHOWN ON THEIR RESPECTIVE DOCUMENTS. THESE ELEMENTS ARE SHOWN FOR REFERENCE AND SHALL BE VERIFIED PRIOR TO CONSTRUCTION AND THE ENGINEER ASSUMES NO LIABILITY FOR THE ACCURACY OF THESE ELEMENTS.
- MECHANICAL SYSTEMS SHALL BE INSTALLED AND TESTED USING MATERIALS AND PROCEDURES IN ACCORDANCE WITH ALL STATE AND LOCAL CODES, LAWS AND/OR REGULATIONS AND AUTHORITIES HAVING JURISDICTION. SHOULD THERE BE ANY DIRECT CONFLICT BETWEEN CODES AND THE DRAWINGS AND/OR SPECIFICATIONS, THE CODES, LAWS OR REGULATIONS SHALL GOVERN. ALL MATERIAL, EQUIPMENT INSTALLATION AND OPERATION SHALL BE IN FULL COMPLIANCE WITH MANUFACTURER'S SPECIFICATION AND REQUIREMENTS.
- CONTRACTOR SHALL PAY FOR ALL PERMITS, LICENSES AND FEES REQUIRED BY STATE AND LOCAL AUTHORITIES INCLUDING CONNECTION FEES FOR UTILITY HOOKUPS. ALL WORK SHALL BE INSPECTED AS REQUIRED BY THE AUTHORITY HAVING JURISDICTION. FURNISH INSPECTION AND APPROVAL LETTERS TO OWNER.
- ALL WORK AND MATERIALS ARE SUBJECT TO FIELD OBSERVATION AT ANY TIME BY OWNER'S REPRESENTATIVE.
- ALL EQUIPMENT SHALL BE NEW AND PROVIDED COMPLETE WITH ALL ACCESSORIES, HANGERS, SUPPORTS AND CONTROLS FOR A FULLY FUNCTIONING SYSTEM REGARDLESS OF PRESENCE ON PLANS.
- THESE DRAWINGS ARE DIAGRAMMATIC AND SHOW GENERAL LOCATION AND ARRANGEMENT OF ALL MATERIALS AND EQUIPMENT. DRAWINGS SHALL BE FOLLOWED AS CLOSELY AS BUILDING CONSTRUCTION AND ALL OTHER WORK WILL PERMIT. FINAL LOCATION OF ALL AIR DEVICES SHALL BE COORDINATED WITH REFLECTED CEILING, ELECTRICAL FIXTURES, FIRE PROTECTION DEVICES AND CEILING BASED EQUIPMENT.
- ALL DUCTWORK SHALL BE CONSTRUCTED IN ACCORDANCE WITH SMACNA STANDARDS. ALL MITERED SQUARE DUCT ELBOWS SHALL HAVE TURNING VANES. FLEXIBLE DUCTS MAY BE USED WHERE SHOWN ON PLANS AND MUST BE INSTALLED IN ACCORDANCE WITH THE AIR DIFFUSION COUNCIL FLEXIBLE DUCT PERFORMANCE & INSTALLATION STANDARD (AKA THE ADC "GREENBOOK"), WHERE NOT SHOWN, FLEXIBLE DUCTS MAY BE USED FOR ALIGNMENT PURPOSES ONLY AND SHALL BE LIMITED TO A MAXIMUM LENGTH OF 36" AND SHALL NOT BE UTILIZED FOR CHANGE OF DIRECTION.
- COORDINATE DUCT RUNS AND ROOFTOP PENETRATIONS WITH STRUCTURAL AND ROOFING CONTRACTOR. DUCT MAINS AND EQUIPMENT LOCATED IN THE JOIST ARE TO BE COORDINATED WITH STRUCTURAL. COORDINATE FOR REMOVING BRACING AS REQUIRED.
- SEAL ALL PENETRATIONS THROUGH RATED ASSEMBLIES WITH UL APPROVED FIRE-RATED SYSTEM. PROVIDE FIRE OR RADIATION DAMPERS WHERE REQUIRED.
- ALL SYSTEMS SHALL BE BALANCED TO PROVIDE THE INDICATED AIR QUANTITIES ON PLANS.
- ANY MATERIALS ROUTED THROUGH AIR PLENUMS SHALL BE PLENUM-RATED.
- ALL DUCT DIMENSIONS SHOWN ARE MINIMUM INTERIOR (FREE AREA) DIMENSIONS. CONTRACTOR MAY ADJUST DUCT DIMENSIONS AS REQUIRED TO COORDINATE WITH SITE CONDITIONS. IF A CHANGE IS REQUIRED, DUCT FREE AREA DIMENSIONS MAY BE NO SMALLER THAN THAT SHOWN ON PLANS.
- ALL DAMPERS TO INCLUDE SET SCREW OR SIMILAR FEATURE FOR LOCKING IN POSITION.
- INSTALL ALL MECHANICAL EQUIPMENT WITH REQUIRED CLEARANCES AND ACCESS.

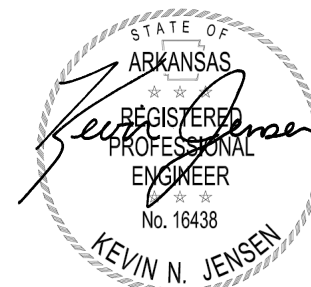
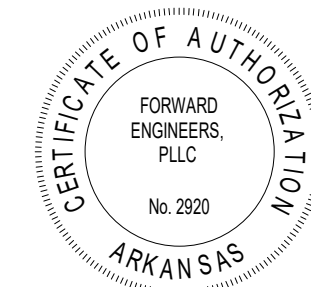
MECHANICAL SYMBOLS

	THERMOSTAT. MOUNT AT 48" AFF
	SENSOR. REF PLANS FOR TYPE AND MOUNTING HEIGHT
	ABOVE FINISHED FLOOR
	SUPPLY DIFFUSER/GRILLE TAG
	DUCT SIZE TRANSITION
	SQUARE DUCT DIMENSIONS
	ROUND DUCT DIMENSIONS
	CONDENSATE DRAIN
	REFRIGERATION LINESET. SINGLE LINE REPRESENTS BOTH LIQUID AND SUCTION LINE
	VERTICAL SUPPLY DUCT
	VERTICAL RETURN DUCT
	VERTICAL EXHAUST DUCT
	VOLUME DAMPER

CLIENT:



CONSULTANT:



JAN 30, 2026

UNION BLOCK BUILDING

124 W WALNUT ST., ROGERS, AR 72756

ISSUE:

MARK	DATE	DESCRIPTION	PERMIT SET						
0	01/30/2026								
PROJECT NUMBER: 250809									
DRAWN BY: KNJ									
CHECKED BY: KNJ									
SHEET TITLE:									

MECHANICAL SPECIFICATIONS

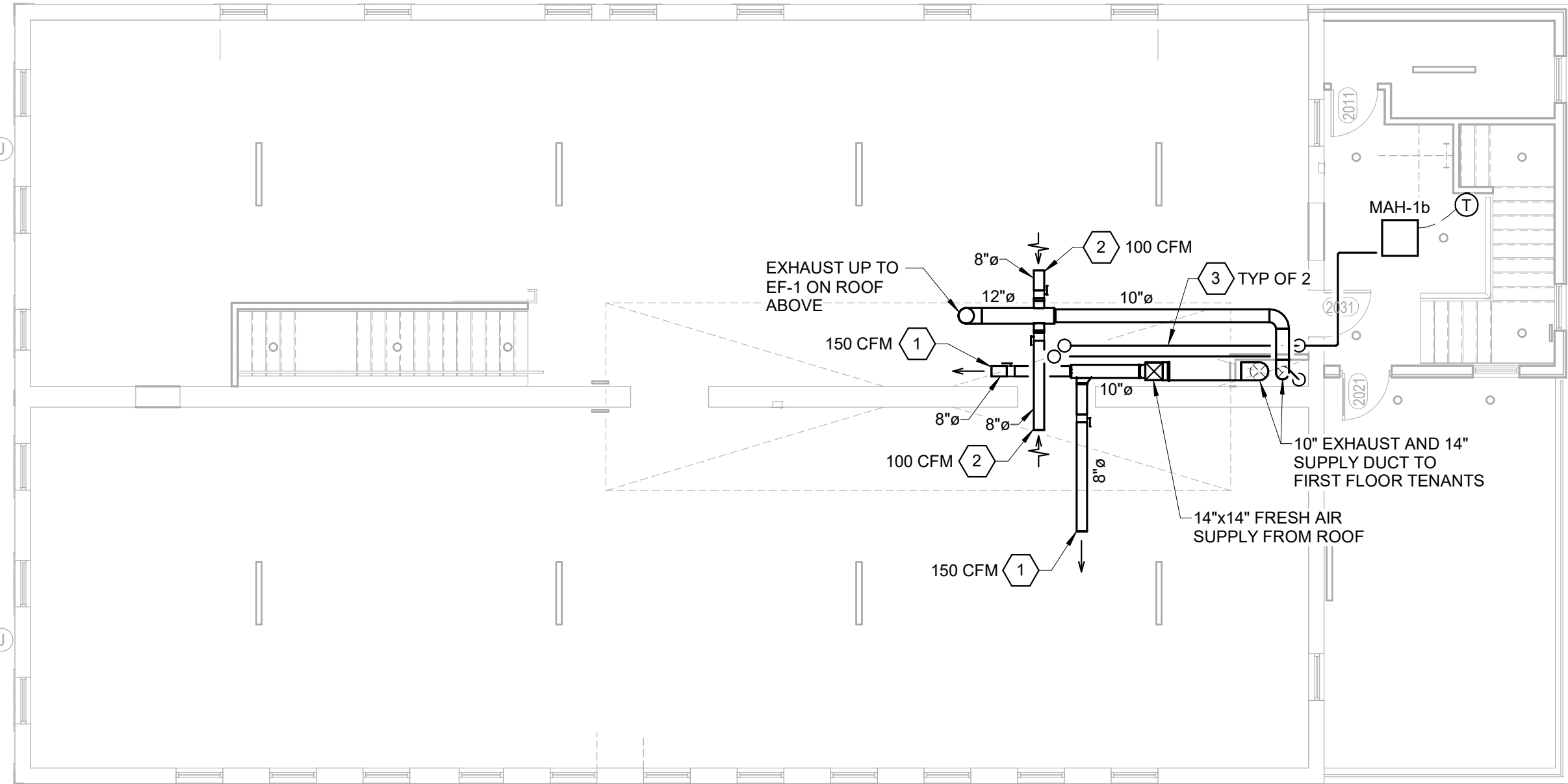
M-001

ELECTRIC AIR HANDLING UNIT SCHEDULE																	
MARK	BASIS OF DESIGN			OUTDOOR UNIT	NOMINAL TONS	ORIENTATION	FAN DATA				OUTDOOR AIRFLOW (CFM)	ELECTRICAL DATA				UNIT WEIGHT (LB.)	
	MANUFACTURER	MODEL	EVAPORATOR				AIRFLOW (CFM)	E.S.P. (IN WG.)	FAN SPEED	ECM (Y/N)		MOTOR SIZE (HP)	VOLTS	PHASE	MCA		MOCP
MAH-1a	LG	KNUDB181A	INTEGRAL	MHP-1	1.5	DUCTLESS CEILING CASSETTE	600	0.00	VARIABLE	Y	1/10	0	POWERED THRU OUTDOOR UNIT				31
MAH-1b	LG	KNUDB181A	INTEGRAL	MHP-1	1.5	DUCTLESS CEILING CASSETTE	600	0.00	VARIABLE	Y	1/10	0	POWERED THRU OUTDOOR UNIT				31
NOTES: 1. PROVIDE WASHABLE FILTER WITH EACH DUCTLESS UNIT. 2. PROVIDE 7-DAY PROGRAMMABLE THERMOSTAT WITH EACH UNIT. COORDINATE SCHEDULE WITH OWNER. 3. ROUTE FULL-SIZE CONDENSATE DRAIN FROM UNIT AND DISCHARGE TO APPROVED PLACE OF DISPOSAL IN SHORTEST AND MOST ECONOMIC MANNER (OR AS SHOWN ON PLANS). DO NOT REDUCE SIZE FROM UNIT CONNECTION. PROVIDE MINIMUM 1 PERCENT SLOPE FOR HORIZONTAL GRAVITY DRAINS. UNIT SHALL INCLUDE INTEGRAL CONDENSATE PUMP.																	

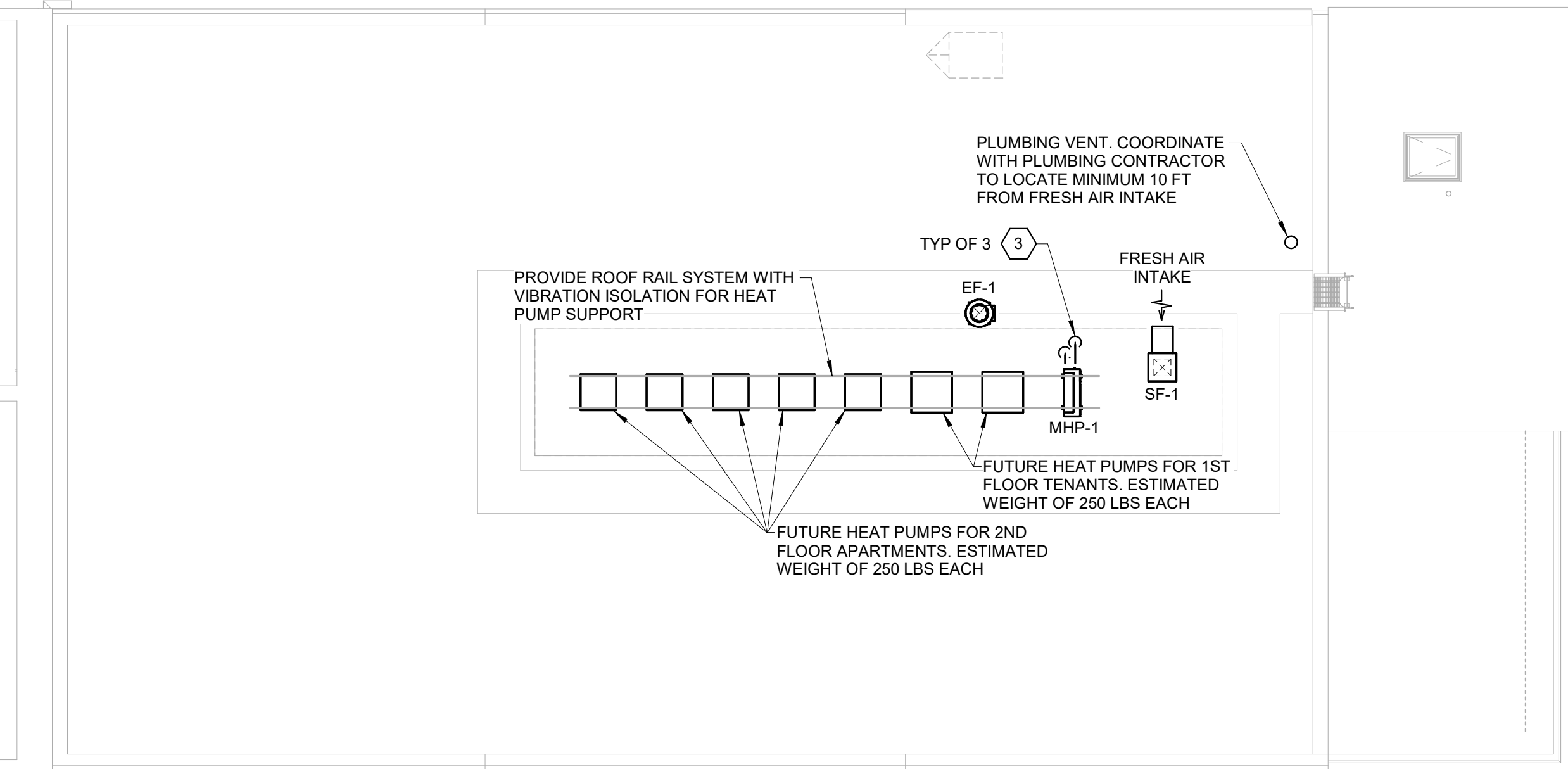
AIR-TO-AIR HEAT PUMP SCHEDULE													
MARK	BASIS OF DESIGN		NOMINAL TONS	REFRIGERANT TYPE	COOLING		HEATING		ELECTRICAL DATA				WEIGHT (LBS)
	MANUFACTURER	MODEL			TOTAL CAPACITY (BTU/H)	EFFICIENCY (SEER / SEER2)	CAPACITY AT 17 DEG. F AMBIENT (BTU/H)	EFFICIENCY (HSPF / HSPF2)	VOLTS	PHASE	MCA	MOCP	
MHP-1	LG	KUMXB361A	3	R-32	32800	14.3 / 13.7	28400	13.1 / 11.0	240	1	19	25	140
NOTES: 1. ROUTE REFRIGERANT SUCTION AND LIQUID LINES BETWEEN INDOOR EVAPORATOR COIL AND CONDENSING UNIT IN SHORTEST AND MOST ECONOMICAL MANNER (OR AS SHOWN ON PLANS). SIZE PER MANUFACTURER'S INSTALLATION MANUAL. 2. PROVIDE ROOF-COMPATIBLE RAIL SUPPORT FOR ROOF MOUNTED UNITS. 3. PROVIDE HAIL GUARD.													

MARK	TYPE	BASIS OF DESIGN		AIRFLOW (CFM)	E.S.P. (in w.g.)	SONES	WEIGHT (LBS)	CONTROLS	ELECTRICAL DATA			OPTIONS
		MANUFACTURER	MODEL						VOLTS	PHASE	FULL-LOAD AMPS	
EF-1	ROOF EXHAUST FAN	GREENHECK	G-090-D-VG	400	0.5	8.3	41	CONTINUOUS	120	60	1.5	DIRECT DRIVE CENTRIFUGAL ROOF EXHAUST FAN WITH ALUMINUM HOUSING. DIRECT DRIVE MOTOR MOUNTED ON VIBRATION ISOLATION. PROVIDE ROOF CURB, INSECT SCREEN AND BACKDRAFT DAMPER.
SF-1	ROOF SUPPLY FAN	GREENHECK	KSQ-12-M1-VG	1100	0.5	9.7	130	CONTINUOUS	120	60	6.6	FILTERED ROOF SUPPLY FAN WITH GALVANIZED STEEL HOUSING, MIXED FLOW WHEEL, DIRECT DRIVE MOTOR IN AIRSTREAM. PROVIDE ROOF CURB.

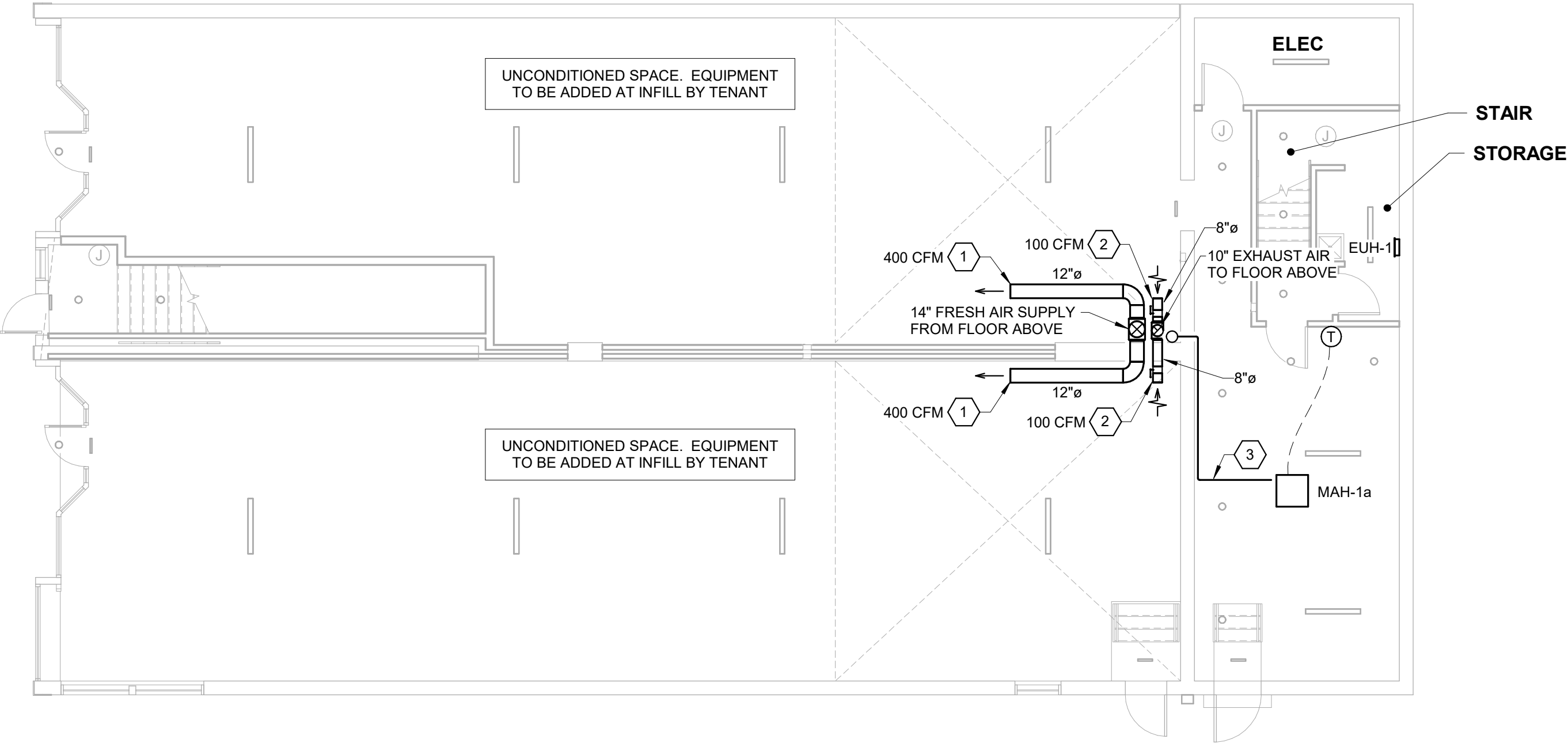
ELECTRIC UNIT HEATER SCHEDULE									
MARK	DESCRIPTION	BASIS OF DESIGN		AIRFLOW (CFM)	HEATING COIL (WATTS)	ELECTRICAL DATA			WEIGHT (LBS)
		MANUFACTURER	MODEL			VOLTS	PHASE	FULL-LOAD AMPS	
EUH-1	ELECTRIC, WALL MOUNTED UNIT HEATER	MARKEL	E3321TD-RP	175	750	120	1	6	26
NOTES: 1. UNIT INCLUDES INTEGRAL THERMOSTAT, FAN DELAY AND DISCONNECT. 2. MOUNT UNITS AT HEIGHT SHOWN ON PLAN OR PER MANUFACTURER INSTALLATION INSTRUCTIONS. 3. PROVIDE SURFACE MOUNTING OR SEMI-RECESSED FRAME IF IN-WALL INSTALLATION NOT ALLOWED.									



2 MECHANICAL PLAN - 2ND FLOOR
1/8" = 1'-0"



3 MECHANICAL PLAN - ROOF
1/8" = 1'-0"



1 MECHANICAL PLAN - 1ST FLOOR
1/8" = 1'-0"

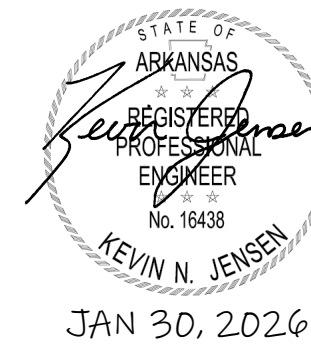
SHEET KEYNOTES

- FRESH AIR SUPPLY TO FUTURE TENANT. AIRFLOW SHOWN IS MAXIMUM DESIGN VALUE. BALANCE FOR NEEDS OF TENANT AT INFILL. ADJUST FAN SPEED AS REQUIRED.
- EXHAUST FROM FUTURE TENANT. AIRFLOW SHOWN IS MAXIMUM DESIGN VALUE. BALANCE FOR NEEDS OF TENANT AT INFILL. ADJUST FAN SPEED AS REQUIRED.
- REFRIGERATION LINES SET BETWEEN SPLIT EVAPORATOR AND CONDENSER. SINGLE LINE REPRESENTS BOTH LIQUID AND SUCTION PIPES. SIZE AND INSTALL PER MANUFACTURER INSTRUCTIONS. SINGLE LINE ALSO REPRESENTS PUMPED CONDENSATE LINE TO EXTERIOR. PROVIDE ADDITIONAL PUMP IF INTEGRAL PUMP CANNOT PUMP TO HEIGHT REQUIRED. SIZE PER PUMP MANUFACTURER REQUIREMENTS. ROUTE TO ROOF AND SPILL TO ROOF SURFACE NEAR CONDENSING UNIT.

CLIENT:



CONSULTANT:



UNION BLOCK BUILDING

124 W WALNUT ST., ROGERS, AR 72756

ISSUE:

MARK	DATE	DESCRIPTION
0	01/30/2026	PERMIT SET

PROJECT NUMBER: 250809

DRAWN BY: KNJ

CHECKED BY: KNJ

SHEET TITLE:

MECHANICAL
PLANS &
SCHEDULES

M-101

DIVISION 26 - ELECTRICAL (CONTINUED)

- b. Arrange duct raceways to cross building expansion joints with expansion fittings at right angles to the joint.
- c. Arrange duct raceways to ensure that each is surrounded by minimum of 1 inch of concrete without voids.
- d. Do not embed threadless fittings in concrete unless locations have been specifically approved by Architect.
5. Stub-ups to Above Recessed Ceilings:
- a. Provide EMT, IMC, or ERM for duct raceways.
- b. Provide a conduit bushing or insulated fitting to terminate stub-ups not terminated in hubs or in an enclosure.
6. Duct Fittings: Install fittings in accordance with NEMA FB 2.10 guidelines
- a. EMT: Provide compression, steel fittings. Comply with NEMA FB 2.10.
- b. Flexible Conduit: Provide only fittings listed for use with flexible conduit type. Comply with NEMA FB 2.20.
- C. Interfaces with Other Work:
1. Firestop penetrations of fire-rated floor and wall assemblies.
2. Provide conduit hangers and supports.

SECTION 260533.16 - BOXES AND COVERS FOR ELECTRICAL SYSTEMS

2.1 PERFORMANCE REQUIREMENTS

- A. Regulatory Requirements: Products or components listed and labeled in accordance with NFPA 70, by qualified electrical testing laboratory recognized by authorities having jurisdiction, and marked for intended location and application.

2.2 METALLIC OUTLET BOXES, DEVICE BOXES, RINGS, AND COVERS

- A. UL QCCIT - Metallic Outlet Boxes and Covers: Investigated, labeled, and marked by qualified electrical testing laboratory in accordance with UL CCN QCIT; including UL 514A. Standard Features:
1. Box having pryout openings, knockouts, threaded entries, or hubs in either the sides or the back, or both, for entrance of conduit, conduit or cable fittings, or cables, with provisions for mounting outlet box cover, but without provisions for mounting wiring device directly to box.
2. Material: Sheet steel.
3. Sheet Metal Depth: Minimum 1.5 inch.
4. Luminaire Outlet Boxes and Covers: Nonadjustable, listed and labeled for attachment of luminaires weighing up to 50 lb.
5. Paddle Fan Outlet Boxes and Covers: Nonadjustable, designed for attachment of paddle fan weighing up to 70 lb.
- B. UL QCCIT - Metallic Conduit Bodies: Investigated, labeled, and marked by qualified electrical testing laboratory in accordance with UL CCN QCIT; including UL 514A. Means for providing access to interior of conduit or tubing system through one or more removable covers at junction or terminal point. In the United States, conduit bodies are listed in accordance with outlet box requirements.
- C. UL QCCIT - Metallic Device Boxes: Investigated, labeled, and marked by qualified electrical testing laboratory in accordance with UL CCN QCIT; including UL 514A. Standard Features:
1. Box with provisions for mounting wiring device directly to box.
2. Material: Sheet steel.
3. Sheet Metal Depth: minimum 1.5 inch.
- D. UL QCCIT - Metallic Extension Rings: Investigated, labeled, and marked by qualified electrical testing laboratory in accordance with UL CCN QCIT; including UL 514A. Ring intended to extend sides of outlet box or device box to increase box depth, volume, or both.
- E. UL QCCIT - Metallic Floor Boxes and Floor Box Covers: Investigated, labeled, and marked by qualified electrical testing laboratory in accordance with UL CCN QCIT; including UL 514A. Box mounted in floor with floor box cover and other components to complete floor box enclosure.
- F. UL QCCIT - Metallic Raised-Floor Boxes and Floor Box Covers: Investigated, labeled, and marked by qualified electrical testing laboratory in accordance with UL CCN QCIT; including UL 514A. Box mounted in raised-floor with floor box cover and other components to complete floor box enclosure.
- G. UL QCCIT - Metallic Recessed Access-Floor Boxes and Recessed Floor Box Covers: Investigated, labeled, and marked by qualified electrical testing laboratory in accordance with UL CCN QCIT; including UL 514A. Floor box with provisions for mounting wiring devices below floor surface and floor box cover with provisions for passage of cords to recessed wiring devices mounted within floor box.
- H. UL QCCIT - Metallic Concrete Boxes and Covers: Investigated, labeled, and marked by qualified electrical testing laboratory in accordance with UL CCN QCIT; including UL 514A. Box intended for use in poured concrete.

2.3 NONMETALLIC OUTLET BOXES, DEVICE BOXES, RINGS, AND COVERS

- A. UL QCMZ - Nonmetallic Outlet Boxes and Covers: Investigated, labeled, and marked by qualified electrical testing laboratory in accordance with UL CCN QCMZ; including UL 514C. Box having pryout openings, knockouts, threaded entries, or hubs in either the sides or the back, or both, for entrance of conduit, conduit or cable fittings, or cables, with provisions for mounting outlet box cover, but without provisions for mounting wiring device directly to box.
- B. UL QCMZ - Nonmetallic Conduit Bodies: Investigated, labeled, and marked by qualified electrical testing laboratory in accordance with UL CCN QCMZ; including UL 514C. Means for providing access to interior of conduit or tubing system through one or more removable covers at junction or terminal point. In the United States, conduit bodies are listed in accordance with outlet box requirements.
- C. UL QCMZ - Nonmetallic Device Boxes: Investigated, labeled, and marked by qualified electrical testing laboratory in accordance with UL CCN QCMZ; including UL 514C. Box with provisions for mounting wiring device directly to box.
- D. UL QCMZ - Nonmetallic Extension Rings: Investigated, labeled, and marked by qualified electrical testing laboratory in accordance with UL CCN QCMZ; including UL 514C. Ring intended to extend sides of outlet box or device box to increase box depth, volume, or both.
- E. UL QCMZ - Nonmetallic Floor Boxes and Floor Box Covers: Investigated, labeled, and marked by qualified electrical testing laboratory in accordance with UL CCN QCMZ; including UL 514C. Box mounted in floor with floor box cover and other components to complete floor box enclosure.
- F. UL QCMZ - Nonmetallic Raised-Floor Boxes and Floor Box Covers: Investigated, labeled, and marked by qualified electrical testing laboratory in accordance with UL CCN QCMZ; including UL 514C. Box mounted in raised-floor with floor box cover and other components to complete floor box enclosure.
- G. UL QCMZ - Nonmetallic Recessed Access-Floor Boxes and Recessed Floor Box Covers: Investigated, labeled, and marked by qualified electrical testing laboratory in accordance with UL CCN QCMZ; including UL 514C. Floor box with provisions for mounting wiring devices below floor surface and floor box cover with provisions for passage of cords to recessed wiring devices mounted within floor box.
- H. UL QCMZ - Nonmetallic Floor Nozzles: Investigated, labeled, and marked by qualified electrical testing laboratory in accordance with UL CCN QCMZ; including UL 514C. Enclosure intended primarily as housing for receptacle, provided with means, such as collar, for surface-mounting on floor, which may or may not include stem to support it above floor level, and is sealed against entrance of scrub water at floor level.
- I. UL QCMZ - Nonmetallic Concrete Boxes and Covers: Investigated, labeled, and marked by qualified electrical testing laboratory in accordance with UL CCN QCMZ; including UL 514C. Box intended for use in poured concrete.

2.4 JUNCTION BOXES AND PULL BOXES

- A. UL BGUZ - Indoor Sheet Metal Junction and Pull Boxes: Investigated, labeled, and marked by qualified electrical testing laboratory in accordance with UL CCN BGUZ; including UL 50 and UL 50E. Standard Features:
1. Box with a blank cover that serves the purpose of joining different runs of raceway or cable.
2. Degree of Protection: Type 1.
- B. UL BGUZ - Indoor Cast-Metal Junction and Pull Boxes: Investigated, labeled, and marked by qualified electrical testing laboratory in accordance with UL CCN BGUZ; including UL 50 and UL 50E. Standard Features:
1. Box with a blank cover that serves the purpose of joining different runs of raceway or cable.
2. Degree of Protection: Type 1.

- C. UL BGUZ - Outdoor Polymeric Junction and Pull Boxes: Investigated, labeled, and marked by qualified electrical testing laboratory in accordance with UL CCN BGUZ; including UL 50 and UL 50E. Standard Features:
1. Box with a blank cover that serves the purpose of joining different runs of raceway or cable.
2. Degree of Protection: Type 3R.

2.5 COVER PLATES FOR DEVICE BOXES

- A. UL QCIT or QCMZ - Metallic Cover Plates for Device Boxes: Investigated, labeled, and marked by qualified electrical testing laboratory in accordance with UL CCN QCIT or UL CCN QCMZ; including UL 514D. Standard Features:
1. Cover plate-Securing Screws: Metal with head color to match cover plate finish.
2. Damp and Wet Locations: Listed, labeled, and marked for location and use. Provide gaskets and accessories necessary for compliance with listing.
3. Cover Plate Material: As indicated on architectural Drawings.
- B. UL QCIT or QCMZ - Nonmetallic Cover Plates for Device Boxes: Investigated, labeled, and marked by qualified electrical testing laboratory in accordance with UL CCN QCIT or UL CCN QCMZ; including UL 514D. Standard Features:
1. Cover Plate-Securing Screws: Metal with head color to match cover plate finish.
2. Damp and Wet Locations: Listed, labeled, and marked for location and use. Provide gaskets and accessories necessary for compliance with listing.
3. Cover Plate Material: As indicated on architectural Drawings.
4. Color: As indicated on architectural Drawings.

3.1 SELECTION OF BOXES AND COVERS FOR ELECTRICAL SYSTEMS

- A. Unless more stringent requirements are specified in Contract Documents or manufacturers' published instructions, comply with NFPA 70 for selection of boxes and enclosures. Consult Architect for resolution of conflicting requirements.
- B. Degree of Protection:
1. Outdoors: Type 3R unless otherwise indicated.
2. Indoors: Type 1 unless otherwise indicated.
- C. Exposed Boxes Installed Less Than 2.5 m (8 ft) Above Floor:
1. Boxes with knockouts or unprotected openings are prohibited.
2. Provide exposed cover. Flat covers with angled mounting slots or knockouts are prohibited.

3.2 INSTALLATION OF BOXES AND COVERS FOR ELECTRICAL SYSTEMS

- A. Comply with manufacturer's published instructions.
- B. Special Installation Techniques:
1. Mount boxes at heights indicated on Drawings. If mounting heights of boxes are not individually indicated, give priority to ADA requirements. Install boxes with height measured to center of box unless otherwise indicated.
2. Locate boxes so that cover or plate will not span different building finishes.
3. Support boxes in recessed ceilings independent of ceiling tiles and ceiling grid.

SECTION 260922 - LIGHTING CONTROL DEVICES

2.1 ELECTRONIC TIME SWITCHES

- A. Electronic Time Switches: Solid state, programmable, with alphanumeric display, complying with UL 917.
1. Listed and labeled in accordance with NFPA 70, by a qualified electrical testing laboratory recognized by authorities having jurisdiction, and marked for intended location and application.
2. Contact Configuration: As required for circuit to be controlled.
3. Contact Rating: As required for circuit to be controlled.
4. Programs: Eight on-off set points on a 24-hour schedule and an annual holiday schedule that overrides the weekly operation on holidays.
5. Circuitry: Allow connection of a photoelectric relay as substitute for on-off function of a program.
6. Astronomic Time Schedules:
7. Automatic daylight savings time changeover.
8. Battery Backup: Not less than seven days reserve, to maintain schedules and time clock.

2.2 OUTDOOR PHOTOELECTRIC SWITCHES, SOLID STATE, FLEXIBLE MOUNTING

- A. Description: Solid state, with SPST, or DPST dry contacts rated for 1800 VA inductive, to operate connected relay, contactor coils, or microprocessor input; complying with UL 773A, and compatible with ballasts and LED lamps.
1. Listed and labeled in accordance with NFPA 70, by a qualified electrical testing laboratory recognized by authorities having jurisdiction, and marked for intended location and application.
2. Light-Level Monitoring Range: 1.5 to 10 fc, with an adjustment for turn-on and turn-off levels within that range.
3. Time Delay: Fifteen-second minimum, to prevent false operation.
4. Surge Protection: Metal-oxide varistor.
5. Mounting: Twist lock complies with ANSI C136.10, with base-and-stem mounting or stem-and-swivel mounting accessories as required to direct sensor to the north sky exposure.
6. Failure Mode: Luminaire stays ON.

2.3 SWITCHBOX-MOUNTED OCCUPANCY SENSORS

- A. General Requirements for Sensors: Automatic-wall-switch occupancy sensor with manual on-off switch, suitable for mounting in a single gang switchbox using hardwired connection.
1. Listed and labeled in accordance with NFPA 70, by a qualified electrical testing laboratory recognized by authorities having jurisdiction, and marked for intended location and application.
2. Occupancy Sensor Operation: Unless otherwise indicated, turn lights on when coverage area is occupied, and turn lights off when unoccupied; with a time delay for turning lights off, adjustable over a minimum range of 1 to 15 minutes.
3. Operating Ambient Conditions: Dry interior conditions, 32 to 120 deg F.
4. Switch Rating: Not less than 800 VA LED load at 120 V, 1200 VA LED load at 277 V, and 800 W incandescent.
5. Standard Range: 180-degree field of view, field adjustable from 180 to 40 degrees; with a minimum coverage area of 900 sq. ft..
6. Sensing Technology: PIR.
7. Switch Type: SP, field-selectable automatic "on," or manual "on," automatic "off."
8. Capable of controlling load in three-way application.
9. Voltage: Match the circuit voltage.
10. Enclosure: Enclosed, field-adjustable, "off" time-delay selector at up to 30 minutes.
11. Color: As indicated by Architect.
12. Faceplate: Color matched to switch.

2.4 LIGHTING CONTACTORS

- A. Description: Electrically operated and mechanically, or electrically held, combination-type lighting contactors with fusible switch, complying with NEMA ICS 2 and UL 508.
1. Current Rating for Switching: Listing or rating consistent with type of load served, including tungsten filament, inductive, and high-inrush ballast (ballast with 15 percent or less THD of normal load current).
2. Fault Current Withstand Rating: Equal to or exceeding the available fault current at the point of installation.
3. Enclosure: Comply with NEMA 250.
4. Mounting: As indicated on architectural drawings, as indicated on Drawings, matching the NEMA type specified for the enclosure.

2.5 CONDUCTORS AND CABLES

- A. Power Wiring to Supply Side of Remote-Control Power Sources: Not smaller than No. 12 AWG.
- B. Classes 2 and 3 Control Cable: Multiconductor cable with stranded-copper conductors not smaller than No. 18 AWG.

- C. Class 1 Control Cable: Multiconductor cable with stranded-copper conductors not smaller than No. 14 AWG.

3.1 INSTALLATION OF SENSORS

- A. Coordinate layout and installation of ceiling-mounted devices with other construction that penetrates ceilings or is supported by them, includes light fixtures, HVAC equipment, smoke detectors, fire-suppression systems, and partition assemblies.

3.2 FIELD QUALITY CONTROL

- A. Operational Test: After installing time switches and sensors, and after electrical circuitry has been energized, start units to confirm proper unit operation.

SECTION 262213 - LOW-VOLTAGE DISTRIBUTION TRANSFORMERS

2.1 GENERAL TRANSFORMER REQUIREMENTS

- A. Description: Factory-assembled and -tested, air-cooled units for 60 Hz service.
- B. Electrical Components, Devices, and Accessories: Listed and labeled in accordance with NFPA 70, by qualified electrical testing laboratory recognized by authorities having jurisdiction, and marked for intended location and application.
- C. Transformers Rated 15 kVA and Larger:
1. Comply with 10 CFR 431 (DOE 2016) efficiency levels.
2. Marked as compliant with DOE 2016 efficiency levels by qualified electrical testing laboratory recognized by authorities having jurisdiction.

2.2 DISTRIBUTION TRANSFORMERS

- A. Comply with NFPA 70.
- B. Cores: Electrical grade, non-aging silicon steel with high permeability and low hysteresis losses.
1. One leg per phase.
2. Grounded to enclosure.
- C. Coils: Continuous windings without splices except for taps.
1. Coil Material: Aluminum or Copper.
2. Internal Coil Connections: Brazed or pressure type.
3. Terminal Connections: Welded or Bolted.
- D. Encapsulation: Transformer smaller than 30 kVA must have core and coils completely resin encapsulated.
- E. Enclosure: Ventilated.
1. Core and coil must be encapsulated within resin compound using vacuum-pressure impregnation process to seal out moisture and air.
2. kVA Ratings: Based on convection cooling only and not relying on auxiliary fans.
3. Wiring Compartment: Sized for conduit entry and wiring installation.
4. Environmental Protection:
- a. Indoor: UL 50E, Type 2.
- b. Outdoor: UL 50E, Type 3R.
5. Finish Color: Gray weather-resistant enamel.
- F. Taps for Transformers 3 kVA and Smaller: None.
- G. Taps for Transformers 7.5 to 24 kVA: One 5 percent tap above and one 5 percent tap below normal full capacity.
- H. Taps for Transformers 25 kVA and Larger: Two 2.5 percent taps above and two 2.5 percent taps below normal full capacity.
1. Grounding: Provide ground-bar kit or ground bar installed on inside of transformer enclosure.
- J. K-factor Rating: Transformers indicated to be K-factor rated must comply with UL 1581 requirements for nonsinusoidal load current-handling capability to degree defined by designated K-factor. Unit must comply with requirements of DOE 2016 efficiency levels when tested in accordance with NEMA TP 2 with K-factor equal to one.
- K. Neutral: Rated 200 percent of full load current for K-factor-rated transformer.
- L. Wall Brackets: Manufacturer's standard brackets.

3.1 INSTALLATION

- A. Install wall-mounted transformers level and plumb with wall brackets fabricated by transformer manufacturer. Coordinate installation of wall-mounted and structure-hanging supports with actual transformer provided.

3.2 CONNECTIONS

- A. Tighten electrical connectors and terminals in accordance with manufacturer's published torque-lightening values. If manufacturer's torque values are not indicated, use those specified in UL 486A-486B.
- B. Provide flexible connections at conduit and conductor terminations and supports to eliminate sound and vibration transmission to building structure.

SECTION 262416 - PANELBOARDS

2.1 PANELBOARDS AND LOAD CENTERS COMMON REQUIREMENTS

- A. Electrical Components, Devices, and Accessories: Listed and labeled in accordance with NFPA 70, by qualified electrical testing agency recognized by authorities having jurisdiction and marked for intended location and application.
- B. Comply with NEMA PB 1.
- C. Comply with NFPA 70.
- D. Enclosures: Flush and Surface-mounted, dead-front cabinets.
1. Rated for environmental conditions at installed location.
- a. Indoor Dry and Clean Locations: UL 50E, Type 1.
- b. Outdoor Locations: UL 50E, Type 3R.
2. Height: 7 ft maximum for 400 A Q dimmer.
3. Front: Secured to box with concealed trim clamps. For surface-mounted fronts, match box dimensions; for flush-mounted fronts, overlap box. Trims must cover live parts and may have no exposed hardware.
4. Finishes:
- a. Panels and Trim: Steel, and, galvanized steel, factory finished immediately after cleaning and pretreating with manufacturer's standard two-coat, baked-on finish consisting of prime coat and thermosetting topcoat.
- b. Back Boxes: Same finish as panels and trim.
- E. Incoming Mains:
1. Location: Convertible between top and bottom.
2. Main Breaker: Main lug interiors up to 400 A must be field convertible to main breaker.
- F. Phase, Neutral, and Ground Buses:
1. Material: Tin-plated aluminum, or Hard-drawn copper, 98 percent conductivity.
- a. Plating must run entire length of bus.
- b. Bus must be fully rated for entire length.
2. Interiors must be factory assembled into unit. Replacing switching and protective devices and labeled by qualified electrical testing laboratory recognized by authorities having jurisdiction, for use as service equipment with one or more main service disconnecting and overcurrent protective devices. Panelboards or load centers must have meter enclosures, wiring, connections, and other provisions for utility metering. Coordinate with utility company for exact requirements.
- G. Quality-Control Label: Panelboards or load centers must be labeled, by qualified electrical testing laboratory recognized by authorities having jurisdiction, for use as service equipment with one or more main service disconnecting and overcurrent protective devices. Panelboards or load centers must have meter enclosures, wiring, connections, and other provisions for utility metering. Coordinate with utility company for exact requirements.
- H. Panelboard Short-Circuit Current Rating:
1. Rated for series-connected system with integral or remote upstream load served, including tungsten filament, inductive, and high-inrush ballast (ballast with 15 percent or less THD of normal load current).
2. Fault Current Withstand Rating: Equal to or exceeding the available fault current at the point of installation.
3. Enclosure: Comply with NEMA 250.
4. Mounting: As indicated on architectural drawings, as indicated on Drawings, matching the NEMA type specified for the enclosure.

2.2 POWER PANELBOARDS

- A. Listing Criteria: NEMA PB 1, distribution type.
- B. Doors: Secured with vault-type latch with tumbler lock; keyed alike. For doors more than 36 inch high, provide two latches, keyed alike.
- C. Mains: Circuit breaker, or Lugs only as shown on plans.
- D. Branch Overcurrent Protective Devices for Circuit-Breaker Frame Sizes 125 A and Smaller: Plug-in circuit breakers or plug-in circuit breakers where individual positive-locking device requires mechanical release for removal.
- E. Branch Overcurrent Protective Devices for Circuit-Breaker Frame Sizes Larger Than 125 A: Bolt-on circuit breakers or Plug-in circuit breakers where individual positive-locking device requires mechanical release for removal.

2.3 LOAD CENTERS

- A. Listing Criteria: Comply with UL 67.
- B. Mains: Circuit breaker or lugs only as shown on plans.
- C. Branch Overcurrent Protective Devices: Plug-in circuit breakers, replaceable without disturbing adjacent units.
- D. Doors: Concealed hinges secured with flush latch with tumbler lock; keyed alike.
- E. Conductor Connectors: Mechanical type for main, neutral, and ground lugs and buses.

2.4 DISCONNECTING AND OVERCURRENT PROTECTIVE DEVICES

- A. MCCB: Comply with UL 489, with series-connected rating to meet available fault currents.
1. Thermal-Magnetic Circuit Breakers:
- a. Inverse time-current element for low-level overloads.
- b. Instantaneous magnetic trip element for short circuits.
- c. Adjustable magnetic trip setting for circuit-breaker frame sizes 250 A and larger.
2. Adjustable Instantaneous-Trip Circuit Breakers: Magnetic trip element with front-mounted, field-adjustable trip setting.
3. Current-Limiting Circuit Breakers: Frame sizes 400 A and smaller; let-through ratings less than NEMA FU 1, RK-5.
4. GFCI Circuit Breakers: Single- and double-pole configurations with Class A ground-fault protection (6 mA trip).
5. Arc-Fault Circuit Interrupter Circuit Breakers: Comply with UL 1699; 120/240 V, single-pole configuration.
6. Subfeed Circuit Breakers: Vertically mounted.
7. MCCB Features and Accessories:
- a. Standard frame sizes, trip ratings, and number of poles.
- b. Breaker handle indicates tripped status.
- c. Lugs: Compression, or Mechanical style, suitable for number, size, trip ratings, and conductor materials.
- d. Application Listing: Appropriate for application; Type SWD for switching fluorescent lighting loads; Type HID for feeding fluorescent and HID lighting circuits.
- e. Ground-Fault Protection: Integrally mounted relay and trip unit with adjustable pickup and time-delay settings, push-to-test feature, and ground-fault indicator.

3.1 INSTALLATION

- A. Comply with manufacturer's published instructions.
- B. Install filler plates in unused spaces.
- C. Interfaces with Other Work: Coordinate layout and installation of panelboards and components with other construction that penetrates walls or is supported by them, including electrical and other types of equipment, raceways, piping, encumbrances to workspace clearance requirements, and adjacent structures. Maintain required workspace clearances and required clearances for equipment access doors and panels.

3.2 IDENTIFICATION

- A. Panelboard Nameplates: Label each panelboard with nameplate.
- B. Panelboard Label: Manufacturer's name and trademark, voltage, amperage, number of phases, and number of poles must be located on interior of panelboard door.
- C. Breaker Labels: Faceplate must list current rating, UL and IEC certification standards, and AC rating based on trip curve classification. Circuit-breaker esutcheon must be clearly marked on and off in addition to providing internal I/O markers. Equip circuit breaker with push-to-trip button, located on face of circuit breaker to mechanically operate circuit-breaker tripping mechanism for maintenance and testing purposes.
- D. Circuit Directory: Provide circuit directory card inside panelboard door, mounted in transparent card holder. Circuit directory must identify specific purpose with detail sufficient to distinguish it from other circuits.

SECTION 262726 - WIRING DEVICES

2.1 PERFORMANCE REQUIREMENTS

- A. Regulatory Requirements: Products or components listed and labeled in accordance with NFPA 70, by qualified electrical testing laboratory recognized by authorities having jurisdiction, and marked for intended location and application.

2.2 GENERAL-USE SWITCHES, DIMMER SWITCHES, AND FAN-SPEED CONTROLLER SWITCHES

- A. Toggle Switch:
1. Listing Criteria: UL CCN WMUZ and UL 20.
2. Standard Features:
- a. Device Color: As indicated on architectural Drawings.
- b. Configuration: General-duty, 120-277 V, 20 A.
- B. Type I Dimmer Switch:
1. Source Limitations: Obtain products from single manufacturer.
2. Listing Criteria: UL CCN EOYX and UL 1472.
3. Standard Features:
- a. UL 1472 Type I dimmer.
- b. Device Color: As indicated on architectural Drawings.
- c. Switch Style: Toggle.
- d. Dimming Control Style: Slide.
- C. Air-Gap Fan-Speed Controller Switch:
1. Listing Criteria: UL CCN GQHG and UL 1917.
2. Standard Features:
3. Device Color: As indicated on architectural Drawings.

2.3 GENERAL-GRADE DUPLEX STRAIGHT-BLADE RECEPTACLES

- A. Duplex Straight-Blade Receptacle:
1. Listing Criteria: Investigated, labeled, and marked by qualified electrical testing laboratory in accordance with guide information and standards specified for the following UL product categories:
- a. Receptacles for Plugs and Attachment Plugs: UL CCN TRTT and UL 498.
- b. Surge Protective Devices: UL 1449, Type 3.
2. Standard Features:
- a. Device Color: As indicated on architectural Drawings.
- b. Configuration: General-duty, NEMA 5-20R.
- B. Tamper-Resistant Duplex Straight-Blade Receptacle:
1. Listing Criteria: Investigated, labeled, and marked by qualified electrical testing laboratory in accordance with guide information and standards specified for the following UL product categories:
- a. Receptacles for Plugs and Attachment Plugs: UL CCN TRTT and UL 498.
- b. Surge Protective Devices: UL 1449, Type 3.
2. Standard Features:
- a. Device Color: As indicated on architectural Drawings.
- b. Configuration: Heavy-duty, NEMA 5-20R.

2.4 RECEPTACLES WITH ARC-FAULT AND GROUND-FAULT PROTECTIVE DEVICES

- A. General-Grade, Weather-Resistant, Tamper-Resistant Duplex Straight-Blade Receptacle:
1. Listing Criteria: Investigated, labeled, and marked by qualified electrical testing laboratory in accordance with guide information and standards specified for the following UL product categories:
- a. Receptacle GFCIs: UL CCN KCXS, UL 498, and UL 943.
2. Standard Features:
- a. Device Color: As indicated on architectural Drawings.
- b. Configuration: Heavy-duty, NEMA 5-20R.

3.1 INSTALLATION OF SWITCHES AND STRAIGHT-BLADE RECEPTACLES

- A. Comply with manufacturer's published instructions.
- B. Reference Standards for Installation: Unless more stringent installation requirements are specified in the Contract Documents or manufacturer's published instructions, comply with the following:
1. Installing and Maintaining Wiring Devices: NECA NEIS 130.
2. Mounting Heights: Unless otherwise indicated in the Contract Documents, comply with mounting heights recommended in NECA NEIS 1.
3. Orientation: Unless otherwise indicated in the Contract Documents, orient receptacle to match configuration diagram in NEMA WD 6.

SECTION 262816 - ENCLOSED SWITCHES AND CIRCUIT BREAKERS

2.1 GENERAL REQUIREMENTS

- A. Electrical Components, Devices, and Accessories: Listed and labeled in accordance with NFPA 70, by qualified electrical testing laboratory recognized by authorities having jurisdiction, and marked for intended location and application.

2.2 FUSIBLE SWITCHES

- A. Type HD, Heavy Duty:
1. UL 98 and NEMA KS 1, horsepower rated, with clips or bolt pads to accommodate indicated fuses; lockable handle with capability to accept three padlocks, and interlocked with cover in closed position.

2.3 NONFUSIBLE SWITCHES

- A. Type GD, General Duty, Three Pole, Single Throw, 240 V(ac), 600 A and Smaller: UL 98 and NEMA KS 1, horsepower rated, lockable handle with capability to accept two padlocks, and interlocked with cover in closed position.
- B. Type HD, Heavy Duty, Three Pole, Single Throw, 240 V(ac), 1200 A and Smaller: UL 98 and NEMA KS 1, horsepower rated, lockable handle with capability to accept three padlocks, and interlocked with cover in closed position.

2.4 SHUNT TRIP SWITCHES

- A. General Requirements: Comply with ASME A17.1, UL 50, and UL 98, with Class J fuse block and 200 kA interrupting and short-circuit current rating.
- B. Type HD, Heavy-Duty, Fusible Switch: UL 98 and NEMA KS 1; integral shunt trip mechanism; horsepower rated, with clips or bolt pads to accommodate indicated fuses; lockable handle with capability to accept three padlocks; interlocked with cover in closed position.
- C. Type HD, Heavy-Duty, Nonfusible Switch: UL 98 and NEMA KS 1; integral shunt trip mechanism; horsepower rated, lockable handle with capability to accept three padlocks; interlocked with cover in closed position.
- D. Control Circuit: 120 V(ac), obtained from integral control power transformer, with primary and secondary fuses, with control power transformer of enough capacity to operate shunt trip, pilot, indicating and control devices.
- E. Accessories:
1. Three-pole, double-throw, fire-safety and alarm relay; coil voltage as coordinated with Fire Alarm contractor.
2. Three-pole, double-throw, fire-alarm voltage monitoring relay complying with NFPA 72.
3. Auxiliary Contact Kit: One NO/NC (Form "C") auxiliary contact(s), arranged to activate before switch blades open. Contact rating as required.

2.5 MOLDED-CASE CIRCUIT BREAKERS

- A. Circuit breakers must be constructed using glass-reinforced insulating material. Current carrying components must be completely isolated from handle and accessory mounting area.
- B. Circuit breakers must have toggle operating mechanism with common tripping of all poles, which provides quick-make, quick-break contact action. Circuit-breaker handle must be over center, be trip free, and reside in either the "on" or "off" position. Local trip indication. Circuit-breaker esutcheon must be clearly marked on and off in addition to providing internal I/O markers. Equip circuit breaker with push-to-trip button, located on face of circuit breaker to mechanically operate circuit-breaker tripping mechanism for maintenance and testing purposes.
- C. Maximum ampere rating and UL, IEC, or other certification standards with applicable voltage systems and corresponding interrupting ratings must be clearly marked on face of circuit breaker. Circuit breakers must be 100 percent rated or series rated as indicated on Drawings. Circuit breaker/circuit breaker combinations for series connected interrupting ratings must be listed by UL as recognized component combinations. Series rated combination must be marked on end-use equipment along with statement "Caution - Series Rated System. _____ Amps Available. Identical Replacement Component Required."
- D. Standard: Comply with UL 489 with required interrupting capacity for available fault currents.
- E. Thermal-Magnetic Circuit Breakers: Inverse time-current thermal element for low-level overloads and instantaneous magnetic trip element for short circuits. Adjustable magnetic trip setting for circuit-breaker frame sizes 250 A and larger.
- F. Adjustable, Instantaneous-Trip Circuit Breakers: Magnetic trip element with front-mounted, field-adjustable trip setting.
- G. Electric Trip Circuit Breakers: Field-replaceable rating plug, RMS sensing, with the following field-adjustable settings: Instantaneous trip.
- H. Current-Limiting Circuit Breakers: Frame sizes 400 A and smaller, and let-through ratings less than NEMA FU 1, RK-5.
- I. Integrally Fused Circuit Breakers: Thermal-magnetic trip element with integral limiter-style fuse listed for use with circuit breaker and trip activation on fuse opening or on opening of fuse compartment door.
- J. GFLS Circuit Breakers: Single- and two-pole configurations with Class A ground-fault protection (6 mA trip).
- K. GFEF Circuit Breakers: With Class B ground-fault protection (30 mA trip).
- L. Features and Accessories:
1. Standard frame sizes, trip ratings, and number of poles.
2. Application Listing: Appropriate for application; Type SWD for switching fluorescent lighting loads; Type HID for feeding fluorescent and high-intensity discharge lighting loads.
3. Shunt Trip: Trip coil energized from separate circuit, with coil-clearing contact.
4. Ground-Fault Protection: Comply with UL 1053; integrally mounted, self-powered type with mechanical ground-fault indicator; relay with adjustable pickup and time-delay settings, push-to-test feature, internal memory, and shunt trip unit, and three-phase, zero-sequence current transformer/sensor.

- A. Enclosed Switches and Circuit Breakers: UL 489, NEMA KS 1, UL 50E, and UL 50, to comply with environmental conditions at installed location.

- A. Comply with manufacturer's published instructions.
- B. Coordinate layout and installation of switches, circuit breakers, and components with equipment served and adjacent surfaces. Maintain required workspace clearances and required clearances for equipment access doors and panels.
- C. Install individual wall-mounted switches and circuit breakers with tops at uniform height unless otherwise indicated.
- D. Install fuses in fusible devices.

2.6 ENCLOSURES

- A. Indoor, Dry and Clean Locations: UL 50E, Type 1.
- B. Outdoor Locations: UL 50E, Type 3R.
- C. Kitchen Areas: UL 50E, Type 4X, stainless steel.

3.1 SELECTION OF ENCLOSURES

- A. Comply with manufacturer's published instructions.
- B. Coordinate layout and installation of switches, circuit breakers, and components with equipment served and adjacent surfaces. Maintain required workspace clearances and required clearances for equipment access doors and panels.
- C. Install individual wall-mounted switches and circuit breakers with tops at uniform height unless otherwise indicated.
- D. Install fuses in fusible devices.

- A. Tests and Inspections:
1. Operational Test: After installing luminaires, switches, and accessories, and after electrical circuitry has been energized, test units to confirm proper operation.
2. Test for Emergency Lighting: Interrupt power supply to demonstrate proper operation. Verify transfer from normal power to battery power and verify return to normal.
3. Verify operation of photoelectric controls.

- A. Comply with manufacturer's published instructions.
- B. Coordinate layout and installation of switches, circuit breakers, and components with equipment served and adjacent surfaces. Maintain required workspace clearances and required clearances for equipment access doors and panels.
- C. Install individual wall-mounted switches and circuit breakers with tops at uniform height unless otherwise indicated.
- D. Install fuses in fusible devices.

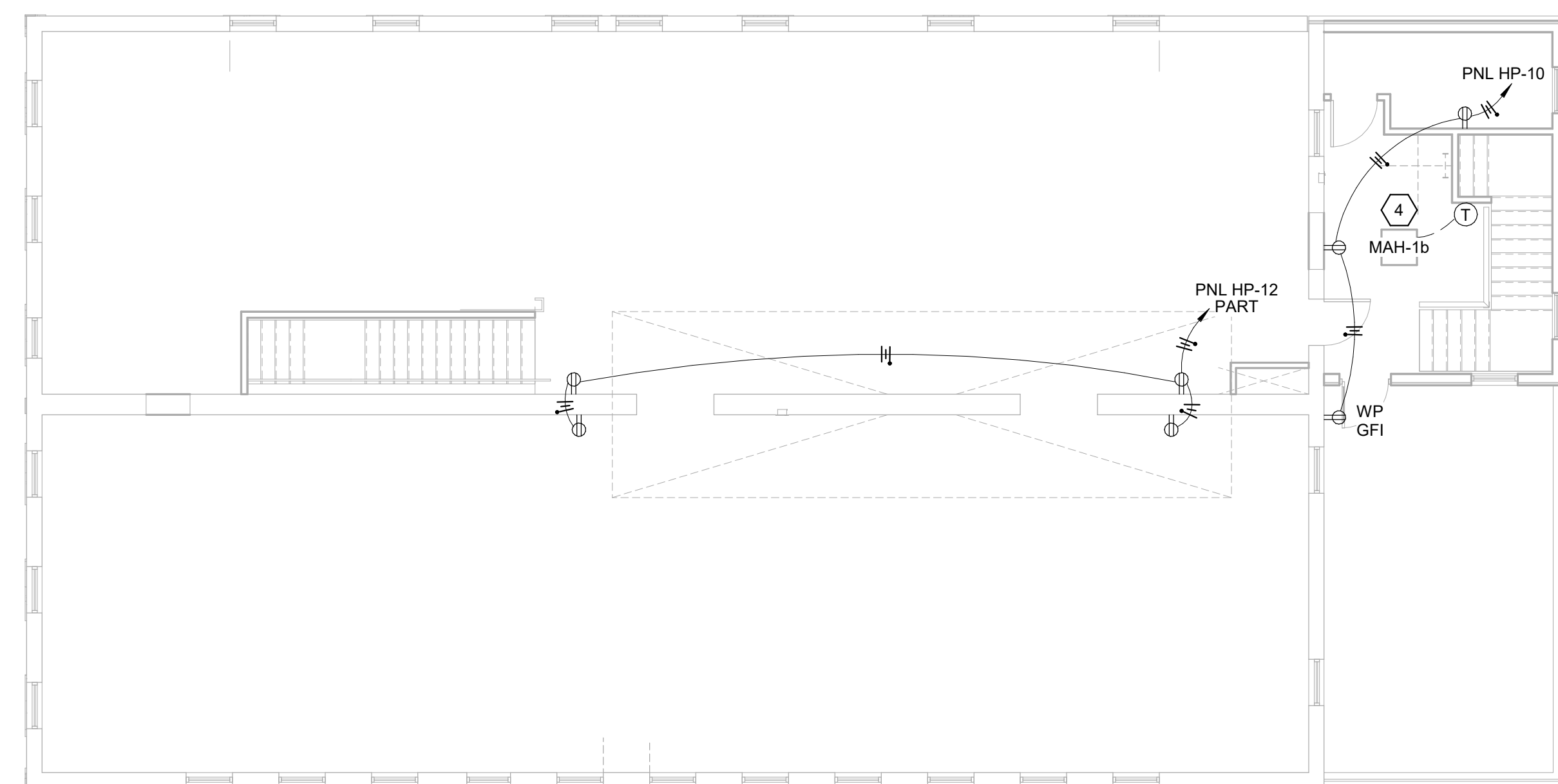
SECTION 265000 - LIGHTING

2.1 PERFORMANCE REQUIREMENTS

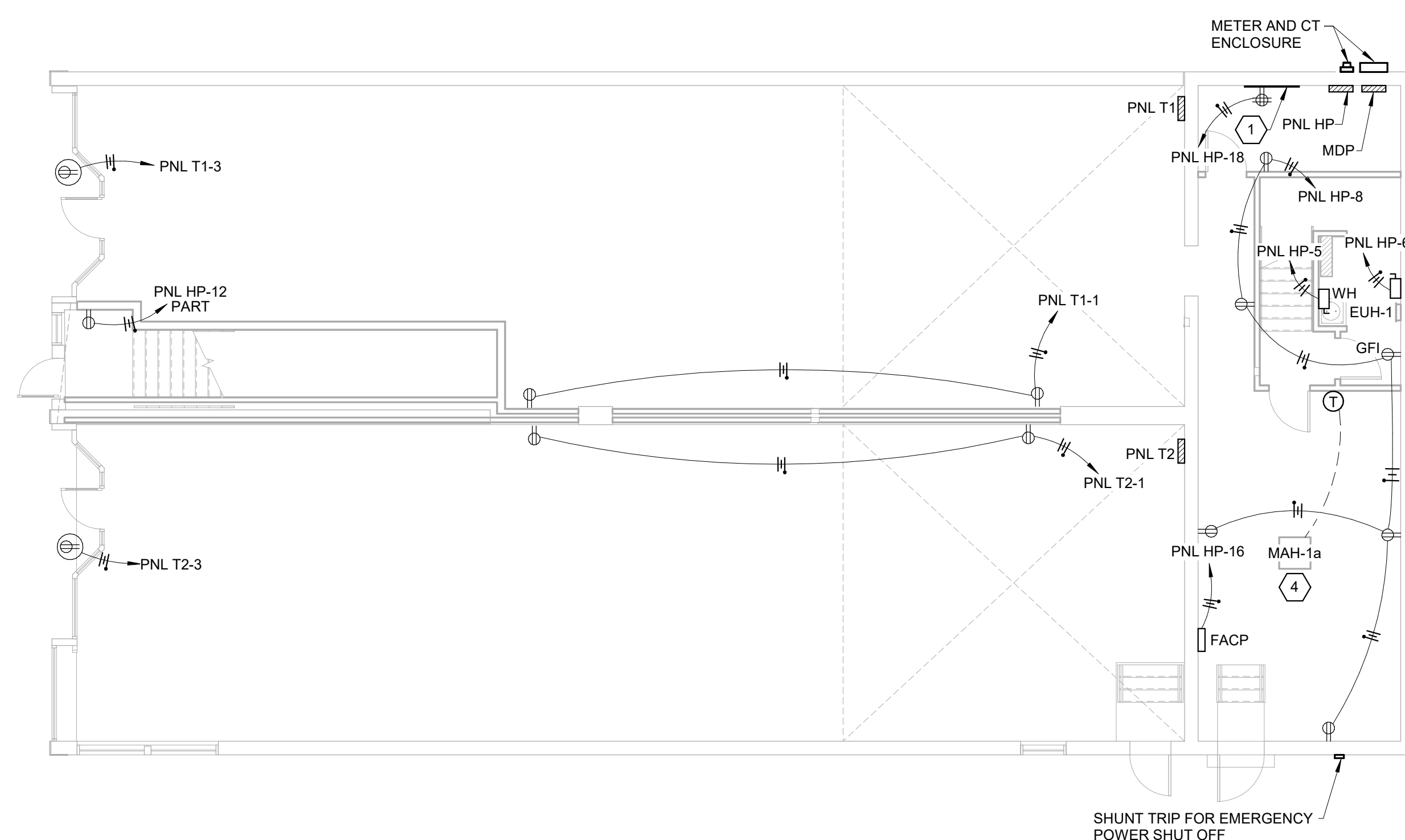
- A. Regulatory Requirements: Products or components listed and labeled in accordance with NFPA 70, by qualified electrical testing laboratory recognized by authorities having jurisdiction, and marked for intended location and application.

2.2 LUMINAIRES

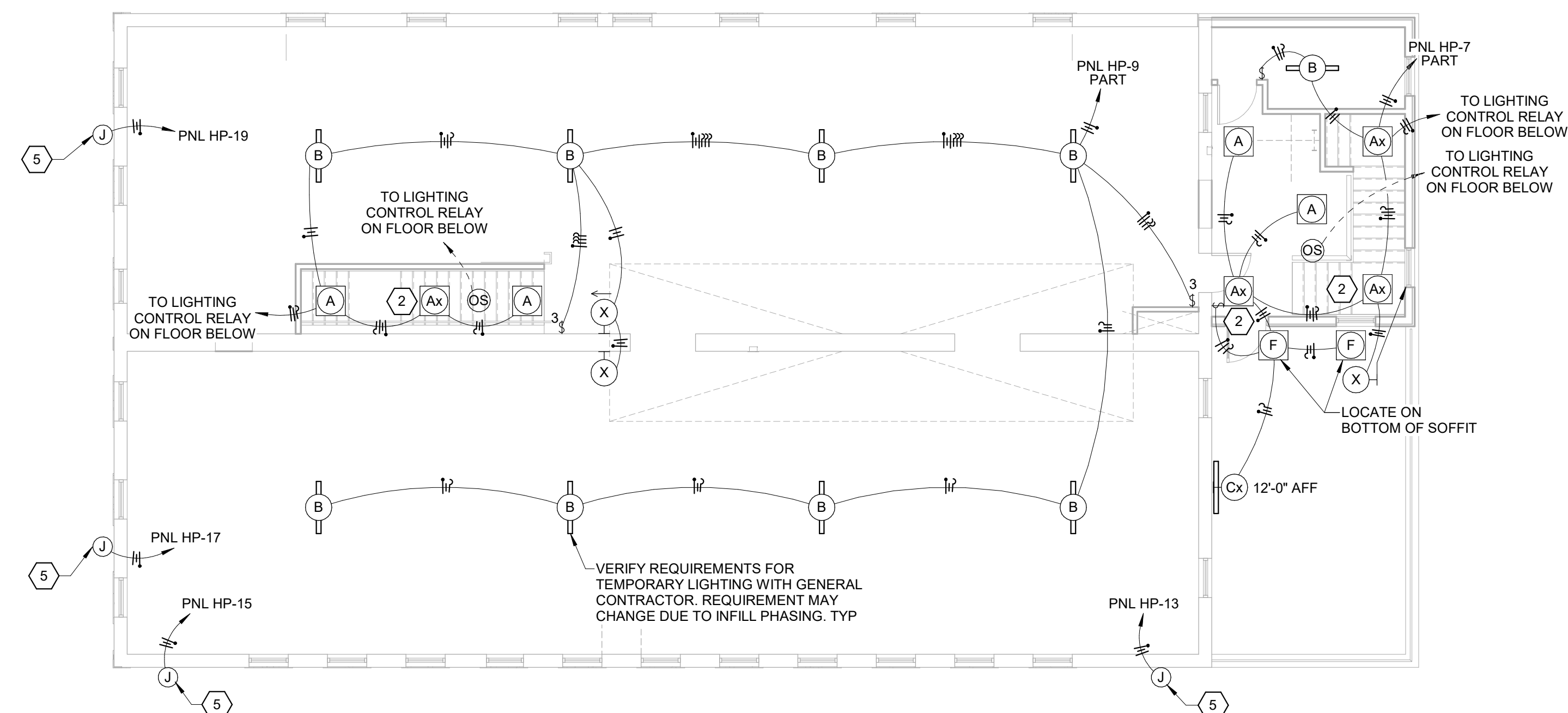
- A. Surface-Mounted LED Luminaire: UL CCN IFAM; including UL 1598.
- B. Recessed LED Luminaire: UL CCN IFAO; including UL 1598. Ceiling Compatibility: NEMA LE 4.
- C. UL IFFR - Track-Lighting Systems: UL CCN IFFR; including UL 1574.
- D. UL FTBR or FTBV - Emergency Lighting and Power Equipment
1. Emergency Lighting and Power: UL CCN FTBR or UL CCN FTBV; including UL 924, NFPA 101, and ICC IBC.
2. Marked in accordance with UL CCN HXYT, including UL 1598, for compatible power supply, installation location, and environmental conditions.</



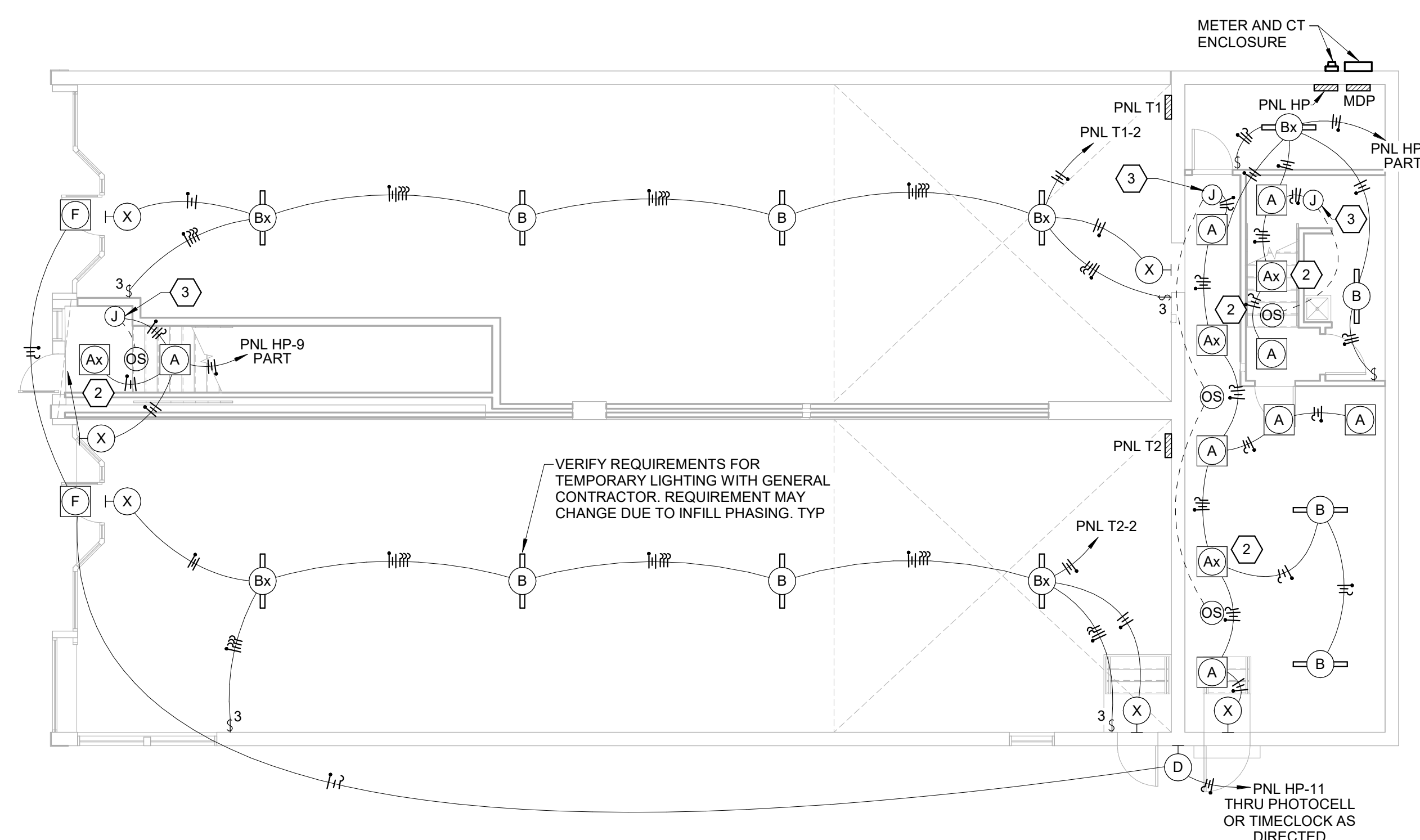
4 POWER PLAN - 2ND FLOOR
1/8" = 1'-0"



3 POWER PLAN - 1ST FLOOR
1/8" = 1'-0"



2 LIGHTING PLAN - 2ND FLOOR
1/8" = 1'-0"



1 LIGHTING PLAN - 1ST FLOOR
1/8" = 1'-0"

- ## SHEET KEYNOTES

1. PROVIDE 4'X8" 3/4" PLYYWOOD BACKBOARD ON WALL FOR OWNER'S IT EQUIPMENT WITH DEDICATED QUADRUPEX OUTLET AND SPACE FOR WALL MOUNTED SERVER CABINET. VERIFY SIZE OF BACKBOARD AND EQUIPMENT REQUIREMENTS WITH OWNER.
2. INDICATES NIGHT LIGHT: WIRE FOR CONTINUOUS OPERATION.
3. 120V WITH COMMUNICATIONS CABLE TO TELEPHONE, CORDLESS, RELAY COMMUNICATES WIRELESSLY OR VIA LOW-VOLTAGE TO CONNECTED OCCUPANCY SENSORS AS SHOWN ON DRAWINGS. OUTPUT IS SWITCH/LEG OR 0-10V SIGNAL TO CONTROLLED FIXTURES AS SHOWN ON DRAWINGS.
4. INDOOR AIR HANDLER UNIT IS POWERED THROUGH OUTDOOR UNIT.
5. JUNCTION BOX OR CIRCUIT ON EXTERIOR WALL FOR EXISTING BUILDING SIGN. RECONNECT OR REFEED EXISTING CIRCUIT FROM NEW PANEL AS SHOWN. FIELD COORDINATE CHANGES TO EXISTING ROUGH-IN REQUIREMENTS WITH SIGNS TO BE INSTALLED AND ADJUST ACCORDINGLY. PROVIDE DISCONNECTING MEANS AS REQUIRED.

CLIENT:	
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CORE
ARCHITECTS
1800 S. OSAGE SPRINGS DR., SUITE 100 • ROGERS, AR 72758
941-270-6311 • 941-270-6312 • FAX: 941-270-6313 • www.corearch.com

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STATE OF
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PROFESSIONAL
ENGINEER
No. 16438
KEVIN N. JENSEN

JAN 30, 2020

UNION BLOCK BUILDING

124 W WAINUIT ST ROGERS AR 72756

ISSUE:

[illegible]

PROJECT NUMBER:	25080
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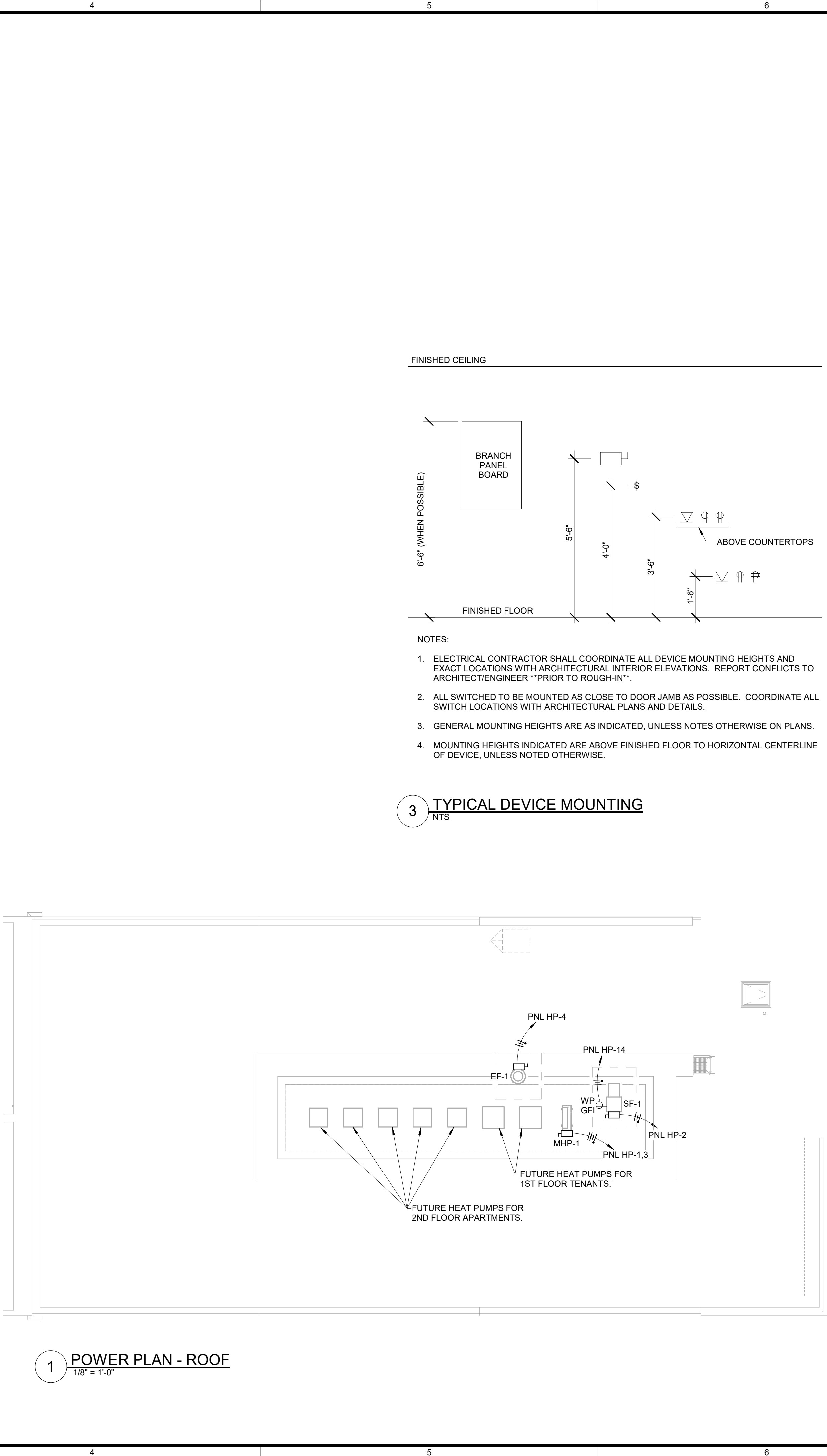
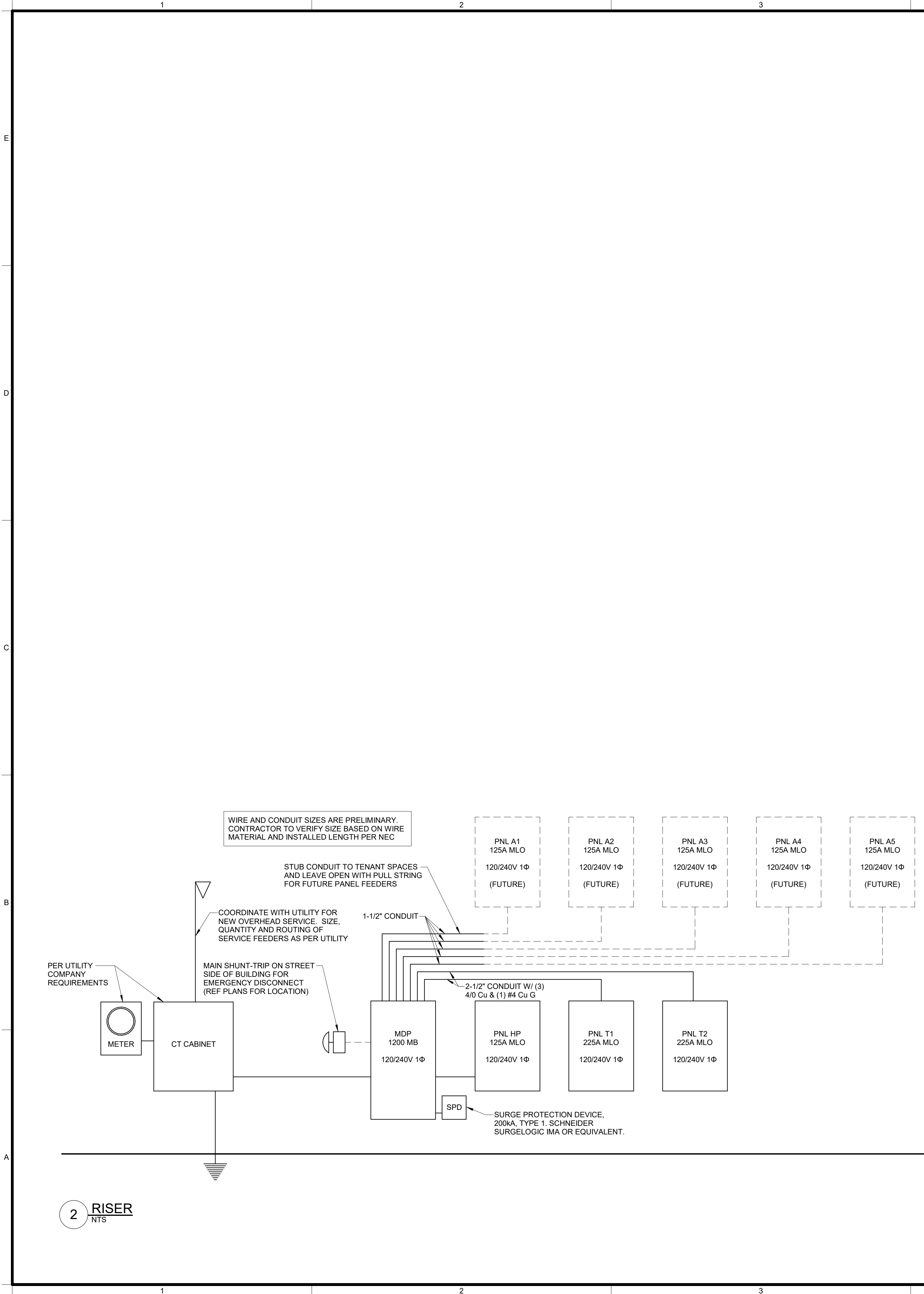
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SHEET TITLE:

ELECTRICAL PLANS

E-101



ISSUE:

MARK	DATE	DESCRIPTION
0	01/30/2026	PERMIT SET

PROJECT NUMBER: 250809

DRAWN BY: ACJ

CHECKED BY: KNJ

SHEET TITLE:

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DIVISION 28 - SAFETY AND SECURITY

NOTE: ALL SPECIFICATIONS MAY NOT APPLY

SUBMITTALS

1. Prior to procurement and if required by general contractor, contractor shall submit product data for review for all equipment, including the following:
- A. Fire alarm control system equipment and shop drawings.

SECTION 283111 - DIGITAL, ADDRESSABLE FIRE-ALARM SYSTEM

1.1 SECTION REQUIREMENTS

- A. Submittals to Authorities Having Jurisdiction: In addition to distribution requirements for submittals, make an identical submittal to authorities having jurisdiction. To facilitate review, include copies of annotated Contract Drawings as needed to depict component locations.

2.1 PERFORMANCE REQUIREMENTS

- A. Comply with NFPA 72.
B. UL listed and labeled.
C. Electrical Components, Devices, and Accessories: Listed and labeled as defined in NFPA 70, by a qualified testing agency, and marked for intended location and application.

2.2 SYSTEM DESCRIPTION

- A. Noncoded, addressable system, with multiplexed signal transmission, dedicated to fire-alarm service only.

2.3 FIRE-ALARM CONTROL UNIT

- A. General Requirements for Fire-Alarm Control Unit: Field-programmable, microprocessor-based, modular, power-limited design with electronic modules, complying with UL 864 and listed and labeled by an NRTL.
B. Alphanumeric Display and System Controls: Arranged for interface between human operator at fire-alarm control unit and addressable system components including annunciation and supervision. Display alarm, supervisory, and component status messages and the programming and control menu.
C. Initiating Device, Notification Appliance, and Signaling Line Circuits: NFPA 72, Class B.
D. Door Controls: Door hold-open devices that are controlled by smoke detectors at doors in smoke barrier walls shall be connected to fire-alarm system.
E. Transmission to Remote Alarm Receiving Station: Automatically transmit alarm, supervisory, and trouble signals to a remote alarm station if present.
F. Primary Power: 24-V dc obtained from 120-V ac service and a power-supply module. Initiating devices, notification appliances, signaling lines, and trouble signals shall be powered by 24-V dc source.
1. Alarm current draw of entire fire-alarm system shall not exceed 80 percent of the power-supply module rating.
G. Secondary Power: 24-V dc supply system with batteries, automatic battery charger, and automatic transfer switch.
H. Instructions: Computer printout or typewritten instruction card mounted behind a plastic or glass cover in a stainless-steel or aluminum frame.

2.4 MANUAL FIRE-ALARM BOXES

- A. General Requirements for Manual Fire-Alarm Boxes: Comply with UL 38.
1. Single-action mechanism, breaking-glass or plastic-rod type. With integral addressable module arranged to communicate manual-station status (normal, alarm, or trouble) to fire-alarm control unit.
2. Double-action mechanism requiring two actions to initiate an alarm, breaking-glass or plastic-rod type; with integral addressable module arranged to communicate manual-station status (normal, alarm, or trouble) to fire-alarm control unit.

2.5 SYSTEM SMOKE DETECTORS

- A. General Requirements for System Smoke Detectors: Comply with UL 268.
B. Photoelectric Smoke Detectors: Detector address shall be accessible from fire-alarm control unit and shall be able to identify the detector's location within the system and its sensitivity setting.

2.6 NONSYSTEM SMOKE DETECTORS

- A. Single-Station Smoke Detectors: Comply with UL 217 and UL 464; suitable for NFPA 101, residential occupancies; operating at 120-V ac with 9-V dc battery as the secondary power source. Provide with "low" or "missing" battery chirping-sound device.

2.7 HEAT DETECTORS

- A. General Requirements for Heat Detectors: Comply with UL 521.
B. Heat Detector, Combination Type: Actuated by either a fixed temperature or a rate of rise that exceeds 15 deg F per minute unless otherwise indicated.

2.8 NOTIFICATION APPLIANCES

- A. General Requirements for Notification Appliances: Connected to notification appliance signal circuits, zoned as indicated, equipped for mounting as indicated and with screw terminals for system connections. Sound level is typical. Show sound output ratings on Drawings if values other than the ones listed are used in complying with audibility requirements. Comply with interpretations of ADA-ABA Accessibility Guidelines by authorities having jurisdiction. See the Evaluations for discussion about audible system sound levels.
B. Horns: Comply with UL 464. Horns shall produce a sound-pressure level of 90 dBA, measured 10 feet from the horn, using the coded signal prescribed in UL 464 test protocol.
C. Visible Notification Appliances: Strobe lights comply with UL 1971, with clear or nominal white polycarbonate lens mounted on an aluminum faceplate. The word "FIRE" is engraved in minimum 1-inch-high letters on the lens.
1. Rated Light Output:
a. 15/30/75/110 cd, selectable in the field.

2.9 MAGNETIC DOOR HOLDERS

- A. Description: Equipped for wall or floor mounting, complete with matching doorplate.
B. Material and Finish: Match door hardware.

2.10 REMOTE ANNUNCIATOR

- A. Description: Annunciator functions shall match those of fire-alarm control unit for alarm, supervisory, and trouble indications. Manual switching functions shall match those of fire-alarm control unit, including acknowledging, silencing, resetting, and testing.

2.11 ADDRESSABLE INTERFACE DEVICE

- A. Description: Microelectronic monitor module, NRTL listed for use in providing a system address for alarm-initiating devices for wired applications with normally open contacts.

2.12 DIGITAL ALARM COMMUNICATOR TRANSMITTER

- A. Digital alarm communicator transmitter shall be acceptable to the remote central station and shall comply with UL 632 and be listed and labeled by an NRTL.

3.1 INSTALLATION

- A. Comply with NFPA 72 for installation of fire-alarm equipment.
B. Connecting to Existing Equipment: Verify that existing fire-alarm system is operational before making changes or connections.
1. Connect new equipment to existing control panel in existing part of the building.
2. Connect new equipment to existing monitoring equipment at the supervising station.
3. Expand, modify, and supplement existing control and monitoring equipment as necessary to extend existing control and monitoring functions to the new points. New components shall be capable of merging with existing configuration without degrading the performance of either system.

3.2 FIELD QUALITY CONTROL

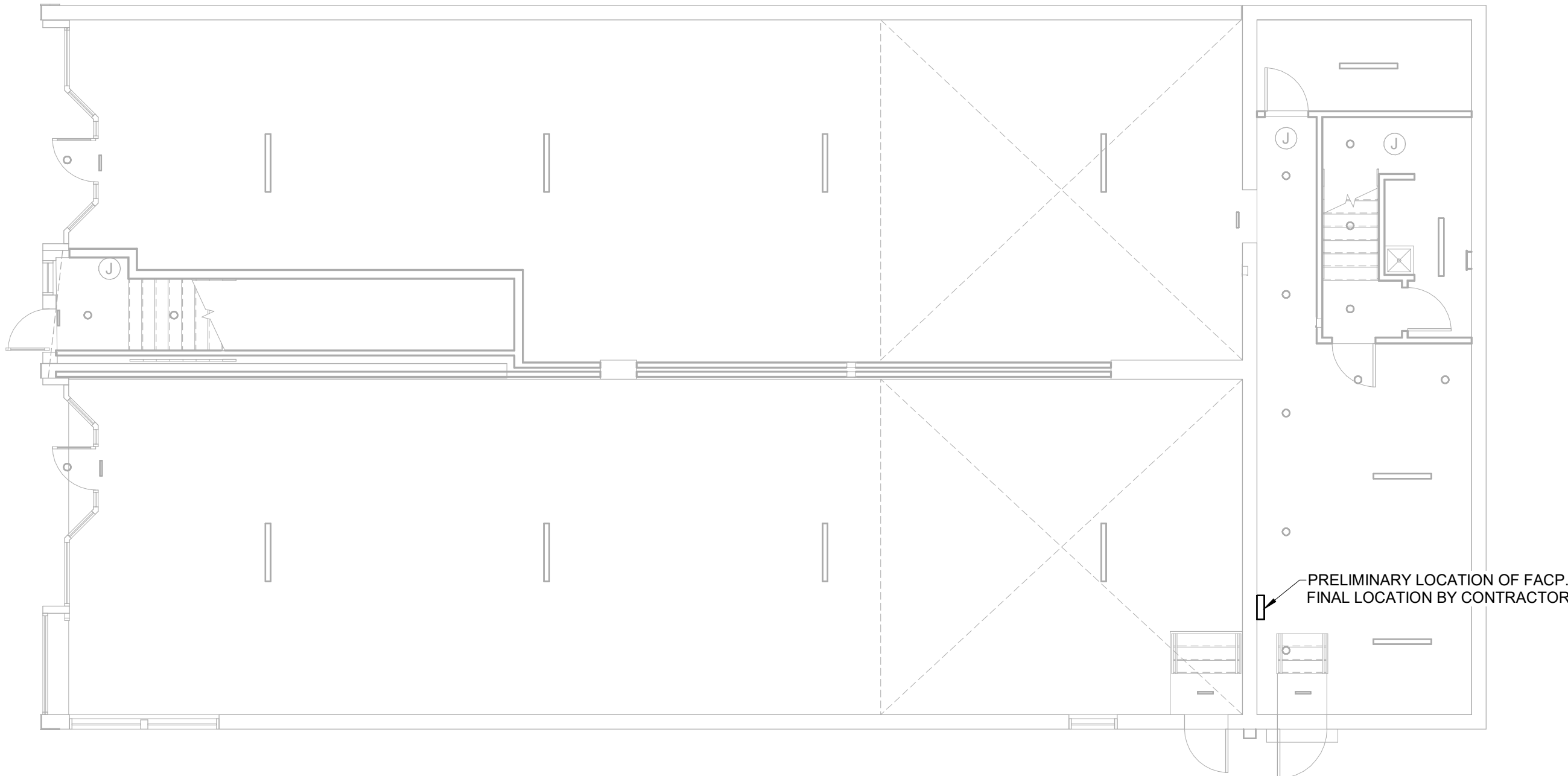
- A. Provide field tests and inspections as required by authorities having jurisdiction.

GENERAL FIRE ALARM SCOPE OF WORK:

THE EXISTING BUILDING DOES NOT HAVE A FIRE ALARM.

FIRE ALARM DESIGN IS DEFERRED TO INSTALLING CONTRACTOR. FIRE ALARM CONTRACTOR TO PROVIDE COMPLETE FIRE ALARM DESIGN, SELECT AND LOCATE DEVICES AND INSTALLATION. DEVICE LOCATIONS, IF SHOWN ON PLANS, ARE PRELIMINARY.

ELECTRICAL CONTRACTOR TO PROVIDE DEDICATED 120V POWER AT LOCATION OF FIRE ALARM CONTROL PANEL. VERIFY FINAL LOCATION WITH FIRE ALARM INSTALLER. CIRCUIT SHALL BE LABELED AT PANEL WITH RED MARKER INDICATING "FIRE ALARM CIRCUIT". BREAKER SHALL BE FIRE ALARM BREAKER OR PROVIDED WITH BREAKER LOCK.



1 FIRE ALARM PLAN (PRELIMINARY)

1/8" = 1'-0"

GENERAL FA NOTES

- ALL WIRING SHALL BE IN COMPLIANCE WITH ARTICLE 760 OF THE ENFORCED VERSION OF THE NATIONAL ELECTRIC CODE (NFPA 70), THE NATIONAL FIRE ALARM CODE (NFPA 72), AND LOCAL BUILDING AND FIRE CODES.
- THESE DRAWINGS AND NOTES ARE PRELIMINARY AND DO NOT CONSTITUTE A FULLY DESIGNED FIRE ALARM SYSTEM. FINAL DESIGN, DEVICE LAYOUT AND WIRING IS TO BE COMPLETED BY INSTALLING CONTRACTOR.
- AC INPUT POWER TO THE FIRE ALARM SYSTEM POWER SUPPLY REQUIRES A DEDICATED SINGLE PHASE, 20 AMP, 120 VOLT CIRCUIT WITH GROUND. MARK THESE CIRCUITS "FIRE ALARM". REFERENCE ELECTRICAL PLANS FOR LOCATION AND CIRCUIT ASSIGNMENT. (EXISTING TO REMAIN)
- SMOKE DETECTORS AND HEAT DETECTORS SHALL BE LOCATED AT LEAST 3' FROM AN AIR REGISTER AND AT LEAST 4" FROM THE WALL.
- ALL VISUAL NOTIFICATION DEVICES SHALL BE SYNCHRONIZED.
- ALL WIRING TO BE LABELED.
- MINIMUM CONDUIT SIZE SHALL BE 3/4 INCH TRADE SIZE, UNLESS NOTED OTHERWISE. EQUIPMENT ENCLOSURE TYPES SHALL BE SUITABLE FOR THE ENVIRONMENT IN WHICH THEY ARE INSTALLED.
- THE INSTALLATION OF RACEWAYS, CABLE TRAYS OR OTHER EQUIPMENT MAY BECOME AN OBSTACLE TO OTHER TRADES. THE CONTRACTOR SHALL COORDINATE THE INSTALLATION OF ALL FIRE ALARM WORK WITH OTHER TRADES TO AVOID INTERFERENCES.
- ALL FIREWALL & MEMBRANE PENETRATIONS SHALL BE AS PER ALL NATIONAL, STATE AND LOCAL CODES.
- DEVICE ROUGH-IN REQUIREMENTS:
 - MANUAL PULL STATIONS - SINGLE GANG BOX OR 4" SQUARE BOX WITH A SINGLE GANG PLASTER RING.
 - SMOKE DETECTORS - 4" SQUARE BOX WITH ROUND PLASTER RING. USE A 2-1/8" DEEP BOX WITH AN EXTENSION RING AND NO PLASTER RING IF THE SMOKE DETECTOR HAS AN INTEGRAL AUDIBLE ALARM.
 - HEAT DETECTORS - 4" SQUARE BOX WITH ROUND PLASTER RING.
 - MONITOR, CONTROL, AND RELAY MODULES - 4" SQUARE BOX 2-1/8" DEEP WITH AN EXTENSION RING.
 - MINI MONITOR MODULES - 4" SQUARE BOX WITH BLANK COVER.
 - STROBE HORNS/CHIMES AND STROBE LIGHTS - SINGLE GANG BOX OR 4" SQUARE BOX WITH A SINGLE OR DOUBLE GANG PLASTER RING. THE PLASTER RING MAY BE DELETED FOR SURFACE MOUNT INSTALLATIONS.
 - SPEAKERS AND SPEAKER STROBES - 4" SQUARE BOX 2-1/8" DEEP WITH AN EXTENSION RING.
 - DOOR HOLDERS - SINGLE GANG BOX OR 4" SQUARE BOX WITH A SINGLE GANG PLASTER RING.
- EQUIPMENT ELEVATIONS:
 - CONTROL UNITS - 72" AFF TO TOP OF CABINET.
 - ANNUNCIATORS - 60" AFF TO CENTERLINE OF THE CABINET.
 - MANUAL PULL STATIONS - 42" - 48" TO THE OPERATING HANDLE OF THE DEVICE. USE SWITCH HEIGHT IF IN THESE PARAMETERS.
 - AUDIBLE VISUAL DEVICES - 80" AFF OR 6" BELOW THE CEILING TO THE CENTERLINE OF THE OUTLET BOX WHICHEVER IS LOWER.
 - VISUAL DEVICES - 80" AFF OR 6" BELOW THE CEILING TO THE CENTERLINE OF THE OUTLET BOX WHICHEVER IS LOWER.
 - AUDIBLE DEVICES - 90" AFF OR 6" BELOW THE CEILING TO THE CENTERLINE OF THE OUTLET BOX WHICHEVER IS LOWER.

FIRE ALARM SYMBOLS

	FIRE ALARM CONTROL PANEL
	FIRE ALARM ANNUNCIATOR PANEL
	FIRE ALARM PULL STATION
	SMOKE DETECTOR
	HEAT DETECTOR
	CARBON MONOXIDE DETECTOR
	DUCT MOUNTED SMOKE DETECTOR
	FIRE ALARM VOICE EVACUATION (SPEAKER)
	HORN/STROBE (CEILING MOUNT)
	STROBE (CEILING MOUNT)
	HORN/STROBE (WALL MOUNT)
	STROBE (WALL MOUNT)

CLIENT:



CONSULTANT:



JAN 30, 2026

UNION BLOCK BUILDING

124 W WALNUT ST., ROGERS, AR 72756

ISSUE:

MARK	DATE	DESCRIPTION	PERMIT SET
0	01/30/2026		

PROJECT NUMBER: 250809

DRAWN BY: ACJ

CHECKED BY: KNJ

SHEET TITLE:

FIRE ALARM SPECIFICATIONS

FA-001

DIVISION 21 - FIRE SUPPRESSION

NOTE: ALL SPECIFICATIONS MAY NOT APPLY

SECTION 210500 - COMMON WORK RESULTS FOR FIRE SUPPRESSION

2.1 SLEEVES AND SLEEVE SEALS

- A. Sleeves without Waterstop:
- Cast-Iron Pipe Sleeves: Cast or fabricated of cast or ductile iron, with plain ends.
 - Steel Pipe Sleeves: ASTM A53/A53M, Type E, Grade B, Schedule 40, hot-dip galvanized, with plain ends.
 - Steel Sheet Sleeves: ASTM A653/A653M, 24 gauge minimum thickness; hot-dip galvanized, round tube closed with welded longitudinal joint.
 - PVC Pipe Sleeves: ASTM D1785, Schedule 40.
 - Molded-PVC Sleeves: With nailing flange.
 - Molded-PE or -PP Sleeves: Removable, tapered-cup shaped, and smooth outer surface with nailing flange.
- B. Sleeves with Waterstop:
- Description: Manufactured steel, sleeve-type, waterstop assembly made for imbedding in concrete slab or wall.
- C. Stack-Sleeve Fittings:
- Description: Manufactured, Dura-coated or Duco-coated, or galvanized cast-iron sleeve with integral clamping flange for use in waterproof floors and roofs. Include clamping ring, bolts, and nuts for membrane flashing.
 - Underdeck Clamp: Clamping ring with setscrews.
- D. Sleeve-Seal Systems:
- Description: Modular sealing-element unit, designed for field assembly, for filling annular space between piping and sleeve.
 - Hydrostatic Seal: 20 psig minimum.
 - Sealing Elements: EPDM-rubber interlocking links shaped to fit surface of pipe. Include type and number required for pipe material and size.
 - Pressure Plates: Carbon steel or Composite plastic.
 - Connecting Bolts and Nuts: Carbon steel, with ASTM B633 coating of length required to secure pressure plates to sealing elements.
- E. Grout:
- Description: Nonshrink, for interior and exterior sealing openings in non-fire-rated walls or floors.
 - Standard: ASTM C1107/C1107M, Grade B, post-hardening and volume-adjusting, dry, hydraulic-cement grout.
 - Design Mix: 5000 psi, 28-day compressive strength.
 - Packaging: Premixed and factory packaged.

2.2 ESCUTCHEONS

- A. Escutcheon Types:
- One-Piece, Steel Type: With polished, chrome-plated finish and setscrew fastener.
 - One-Piece, Stainless Steel Type: With polished stainless steel finish.
 - One-Piece, Cast-Brass Type: With polished, chrome-plated finish and setscrew fastener.
 - One-Piece, Deep-Pattern Type: Deep-drawn, box-shaped steel with polished, chrome-plated finish and spring-clip fasteners.
 - One-Piece, Stamped-Steel Type: With polished, chrome-plated finish and spring-clip fasteners.
 - Spik-Plate, Stamped-Steel Type: With polished, chrome-plated finish; concealed, and, exposed-rivet hinge; and spring-clip fasteners.
- B. Floor Plates:
- Split Floor Plates: Steel with concealed hinge.

3.1 INSTALLATION OF PIPE LOOPS AND SWING CONNECTIONS

- A. Install pipe loops and offsets in accordance with NFPA 13 requirements for expansion and contraction compensation.

3.2 INSTALLATION OF SLEEVES, GENERAL

- A. Install sleeves for piping passing through penetrations in floors, partitions, roofs, and walls.
- B. For sleeves that will have sleeve-seal system installed, select sleeves of size large enough to provide 1-inch annular clear space between piping and concrete slabs and walls. Sleeves are not required for core-drilled holes.
- C. Install sleeves in concrete floors, concrete roof slabs, and concrete walls as new slabs and walls are constructed.
- Permanent sleeves are not required for holes in slabs formed by molded-PE or -PP sleeves.
 - Cut sleeves to length for mounting flush with both surfaces.
 - Exception: Extend sleeves installed in floors of mechanical equipment areas or other wet areas 2 inches above finished floor level.
 - Using grout, seal space outside of sleeves in floors/slabs/walls without sleeve-seal system. Select to maintain fire-resistance of floor/slab/wall.
- D. Install sleeves for pipes passing through interior partitions.
- Cut sleeves to length for mounting flush with both surfaces.
 - Install sleeves that are large enough to provide 1/4-inch annular clear space between sleeve and pipe or pipe insulation.
 - Seal annular space between sleeve and piping or piping insulation; use joint sealants that joint sealant manufacturer's literature indicates is appropriate for size, depth, and location of joint.
- E. Fire-Resistance-Rated Penetrations, Horizontal Assembly Penetrations, and Smoke Barrier Penetrations: Maintain indicated fire or smoke rating of walls, partitions, ceilings, and floors at pipe penetrations. Seal pipe penetrations with fire- and smoke-stop materials.

3.3 INSTALLATION OF SLEEVES WITH WATERSTOP

- A. Install sleeve with waterstop as new walls and slabs are constructed.
- B. Assemble fitting components of length to be flush with both surfaces of concrete slabs and walls. Position waterstop flange centered across width centered in concrete slab or wall.
- C. Secure nailing flanges to wooden concrete forms.
- D. Using grout, seal space around outside of sleeves.

3.4 INSTALLATION OF STACK-SLEEVE FITTINGS

- A. Install stack-sleeve fittings in new slabs as slabs are constructed.
- Secure flashing between clamping flanges for pipes penetrating floors with membrane waterproofing.
 - Install section of cast-iron soil pipe to extend sleeve to 3 inches above finished floor level.
 - Extend cast-iron sleeve fittings below floor slab as required to secure clamping ring if ring is specified.
- B. Fire-Resistance-Rated Penetrations, Horizontal Assembly Penetrations, and Smoke Barrier Penetrations: Maintain indicated fire or smoke rating of floors at pipe penetrations. Seal pipe penetrations with fire- or smoke-stop materials.

3.5 INSTALLATION OF SLEEVE-SEAL SYSTEMS

- A. Install sleeve-seal systems in sleeves in exterior concrete walls and slabs-on-grade at service piping entries into building, and passing through exterior walls.
- B. Select type, size, and number of sealing elements required for piping material and size and for sleeve ID or hole size. Assemble sleeve-seal system components, and install in annular space between piping and sleeve. Tighten bolts against pressure plates that cause sealing elements to expand and make a watertight seal.

3.6 INSTALLATION OF ESCUTCHEONS

- A. Install escutcheons for piping penetrations of walls, ceilings, and finished floors.
- B. Install escutcheons with ID to closely fit around pipe, tube, and insulation of piping and with OD that completely covers opening.

3.7 FIELD QUALITY CONTROL

- A. Sleeves and Sleeve Seals: Perform a leak test. After allowing for a full cure, test sleeves and sleeve seals for leaks. Repair leaks and retest until no leaks exist.
- B. Escutcheons: Using new materials, replace broken and damaged escutcheons and floor plates.

3.8 SLEEVES APPLICATION

- A. Use sleeves and sleeve seals for the following piping-penetration applications:
- Exterior Concrete Walls above and below Grade: Sleeves with waterstops. Select sleeve size to allow for 1-inch annular clear space between piping and sleeve for installing sleeve-seal system.
 - Concrete Slabs-on-Grade: Sleeves with waterstops. Select sleeve size to allow for 1-inch annular clear space between piping and sleeve for installing sleeve-seal system.
 - Concrete Slabs above Grade: Sleeves with waterstops, or, stack-sleeve fittings.
 - Interior Walls and Partitions: Sleeves without waterstops.

3.9 ESCUTCHEONS APPLICATION

- A. Escutcheons for New Piping and Relocated Existing Piping:
- Piping with Fitting or Sleeve Protruding from Wall: One piece, deep pattern.
 - Chrome-Plated Piping: One piece, steel, or split plate steel with polished, chrome-plated finish.
 - Insulated Piping: One piece, steel with polished, chrome-plated finish.
 - Bare Piping at Wall and Floor Penetrations in Finished Spaces: One piece, steel with polished, chrome-plated finish.
 - Bare Piping at Ceiling Penetrations in Finished Spaces:
 - One piece, steel with polished, chrome-plated finish.
 - One piece, stainless steel with polished stainless steel finish.
 - Bare Piping in Unfinished Service Spaces: One piece, steel with polished, chrome-plated finish.
 - Bare Piping in Equipment Rooms: One piece, steel with polished, chrome-plated finish.
- B. Install floor plates for piping penetrations of equipment room floors.
- C. Install floor plates with ID to closely fit around pipe, tube, and insulation of piping and with OD that completely covers opening.
- New Piping and Relocated Existing Piping: One piece, floor plate.
 - Existing Piping: Split floor plate.

SECTION 211000 - WATER-BASED FIRE-SUPPRESSION SYSTEMS

1.1 DEFINITIONS

- A. Standard-Pressure Fire-Suppression System Piping: Piping designed to operate at working pressure of 175 psig maximum.
- B. High-Pressure Fire-Suppression System Piping: Piping designed to operate at working pressure higher than standard 175 psig, but not higher than 250 psig.

1.2 ACTION SUBMITTALS

- A. Shop Drawings:
- Prepare in accordance with NFPA 13 section "Working Plans."
 - Include plans, elevations, and sections of the system piping and details.
 - Include detailed riser diagram and schematic diagram showing system supply, supply connection, devices, valves, pipe and fittings, as well as the delineation of the standard-pressure and high-pressure portions of the fire-suppression system.
 - Indicate dimensions, weights, loads, required clearances, method of field assembly, components, and location and size of each field connection.
 - Submit documents and calculations prepared by NICET Level III-certified technician, "Water-Based Systems Layout."
 - Include diagrams for power, signal, and control wiring.

1.3 CLOSEOUT SUBMITTALS

- A. Operation and Maintenance Data: For fire-suppression systems and specialties to include in emergency, operation, and maintenance manuals.

1.4 MAINTENANCE MATERIAL SUBMITTALS

- A. Furnish extra materials that match products installed and that are packaged with protective covering for storage and identified with labels describing contents.
- Sprinkler Cabinets: Finished, wall-mounted, steel cabinet with hinged cover, and with space for minimum of six spare sprinklers plus sprinkler wrench. Include number of sprinklers required by NFPA 13 and sprinkler wrench. Include separate cabinet with sprinklers and wrench for each type of sprinkler used on Project.
 - System control valves.

1.5 QUALITY ASSURANCE

- A. Installer Qualifications:
- Installer's responsibilities include designing, fabricating, and installing fire-suppression systems and providing professional engineering services needed to assume engineering responsibility. Base calculations on results of fire-hydrant flow test.
 - Engineering Responsibility: Preparation of working plans, calculations, and field test reports by NICET Level III-certified technician, "Water-Based Systems Layout."

1.6 FIELD CONDITIONS

- A. Interruption of Existing Fire-Suppression Service: Do not interrupt fire-suppression service to facilities occupied by Owner or others unless permitted under the following conditions and then only after arranging to provide temporary fire-suppression service in accordance with requirements indicated.
- Notify Construction Manager no fewer than seven days in advance of proposed interruption of fire-suppression service.
 - Do not proceed with interruption of fire-suppression service without Construction Manager's written permission.

2.1 PERFORMANCE REQUIREMENTS

- A. Fire-Suppression System Components, Devices, and Accessories: Listed in UL's "Fire Protection Equipment Directory" and FM Approvals' "Approval Guide."
- B. Electrical Components, Devices, and Accessories: Listed and labeled as defined in NFPA 70, by a qualified testing agency, and marked for intended location and application.
- C. Fire-suppression system equipment, specialties, accessories, installation, and testing to comply with NFPA 13, or NFPA 13R as applicable to the building occupancy.
- D. Standard-Pressure Piping System Component: Listed for 175 psig minimum working pressure.
- E. High-Pressure Piping System Component: Listed for 250 psig minimum working pressure.
- F. Delegated Design: Engage a NICET Level III-certified technician, "Water-Based Systems Layout" to design fire-suppression systems.
- Maximum protection area per sprinkler in accordance with UL listing.
 - Obtain documented approval of fire-suppression system design from AHJs.

2.2 FIRE-SUPPRESSION PIPING, FITTINGS, AND APPURTENANCES

- A. Steel Pipe, Fittings, and Appurtenances:
- Schedule 40 Steel Pipe: black-steel pipe, ASTM A53/A53M, ASTM A135/A135M, or ASTM A795/A795M.
 - Standards: UL 852 and FM 1630.
 - Factory-applied exterior coating.
 - Factory-applied bacterial-resistant internal coating to reduce microbiologically influenced corrosion.
 - Pipe ends may be factory or field formed to match joining method.
 - Schedule 10 Steel Pipe: black-steel pipe, ASTM A53/A53M, ASTM A135/A135M, or ASTM A795/A795M.
 - Standards: UL 852 and FM 1630.
 - Factory-applied exterior coating.
 - Factory-applied bacterial resistant internal coating to reduce microbiologically influenced corrosion.
 - Pipe ends may be factory or field formed to match joining method.

SPECIFICATION CONTINUES ON NEXT SHEET

GENERAL FIRE SUPPRESSION NOTES

- VERIFY LOCATIONS AND DIMENSIONS OF ALL ARCHITECTURAL, CIVIL AND STRUCTURAL ELEMENTS AS SHOWN ON THEIR RESPECTIVE DOCUMENTS. THESE ELEMENTS ARE SHOWN FOR REFERENCE AND SHALL BE VERIFIED PRIOR TO CONSTRUCTION AND THE ENGINEER ASSUMES NO LIABILITY FOR THE ACCURACY OF THESE ELEMENTS.
- FIRE SUPPRESSION SYSTEMS SHALL BE INSTALLED AND TESTED USING MATERIALS AND PROCEDURES IN ACCORDANCE WITH ALL STATE AND LOCAL CODES, LAWS AND/OR REGULATIONS AND AUTHORITIES HAVING JURISDICTION. SHOULD THERE BE ANY DIRECT CONFLICT BETWEEN CODES AND THE DRAWINGS AND/OR SPECIFICATIONS, THE CODES, LAWS OR REGULATIONS SHALL GOVERN. ALL MATERIAL, EQUIPMENT INSTALLATION AND OPERATION SHALL BE IN FULL COMPLIANCE WITH MANUFACTURER'S SPECIFICATION AND REQUIREMENTS.
- CONTRACTOR SHALL PAY FOR ALL PERMITS, LICENSES AND FEES REQUIRED BY STATE AND LOCAL AUTHORITIES INCLUDING CONNECTION FEES FOR UTILITY HOOKUPS. ALL WORK SHALL BE INSPECTED AS REQUIRED BY THE AUTHORITY HAVING JURISDICTION. FURNISH INSPECTION AND APPROVAL LETTERS TO OWNER.
- ALL WORK AND MATERIALS ARE SUBJECT TO FIELD OBSERVATION AT ANY TIME BY OWNER'S REPRESENTATIVE.
- ALL EQUIPMENT SHALL BE NEW UNLESS NOTED OTHERWISE AND PROVIDED COMPLETE WITH ALL ACCESSORIES, HANGERS, SUPPORTS AND CONTROLS FOR A FULLY FUNCTIONING SYSTEM REGARDLESS OF PRESENCE ON PLANS.
- PROVIDE AN APPROVED FIRE STOP ASSEMBLY FOR ANY PIPING PENETRATING RATED ASSEMBLIES.
- FINAL FIRE SUPPRESSION SYSTEM DESIGN IS TO BE COMPLETED BY INSTALLING CONTRACTOR.
- CONTRACTOR MAY SUBMIT ALTERNATE DESIGN OPTIONS FOR CONSIDERATION BY GENERAL CONTRACTOR IF SPECIFIED EQUIPMENT, MATERIALS AND/OR METHODS WOULD REQUIRE UNDO COST OR BE IN CONFLICT WITH INDUSTRY BEST PRACTICES.

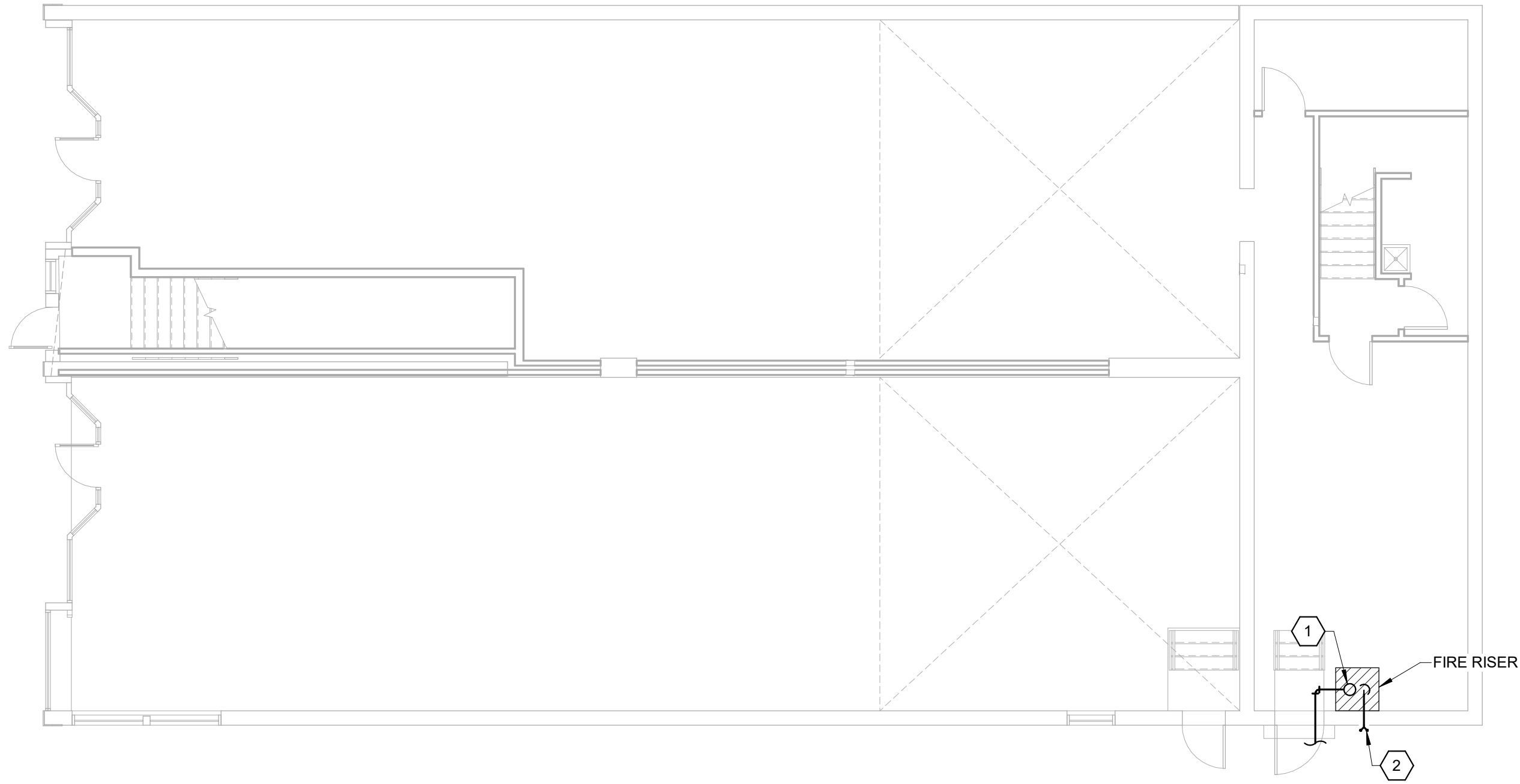
SHEET KEYNOTES

- FIRE LINE FROM WATER MAIN TO FIRE RISER, SIZED BY SPRINKLER CONTRACTOR. REF CIVIL FOR CONTINUATION.
- WALL-MOUNTED FDC, FDC FIXTURE BY CONTRACTOR. COORDINATE FINAL LOCATION OF FDC WITH LOCAL AHJ.

GENERAL FIRE SUPPRESSION SCOPE OF WORK:

THE EXISTING BUILDING DOES NOT HAVE A FIRE SUPPRESSION SYSTEM. A NEW NFPA 13 FIRE SUPPRESSION SYSTEM IS TO BE INSTALLED.

DESIGN IS DEFERRED TO INSTALLING CONTRACTOR. INSTALLER TO PROVIDE COMPLETE DESIGN, DEVICES AND INSTALLATION. DEVICE LOCATIONS, IF SHOWN ON PLAN, ARE PRELIMINARY.



1 FIRE SUPPRESSION PLAN (PRELIMINARY)
1/8" = 1'-0"

CLIENT:



CLIENT JOB NUMBER 25-042

CONSULTANT:



JAN 30, 2026

UNION BLOCK BUILDING

124 W WALNUT ST., ROGERS, AR 72756

ISSUE:

MARK	DATE	DESCRIPTION	PERMIT SET
0	01/30/2026		

PROJECT NUMBER: 250809

DRAWN BY: KNJ

CHECKED BY: KNJ

SHEET TITLE:

FIRE SUPPRESSION SPECIFICATIONS

FX-001

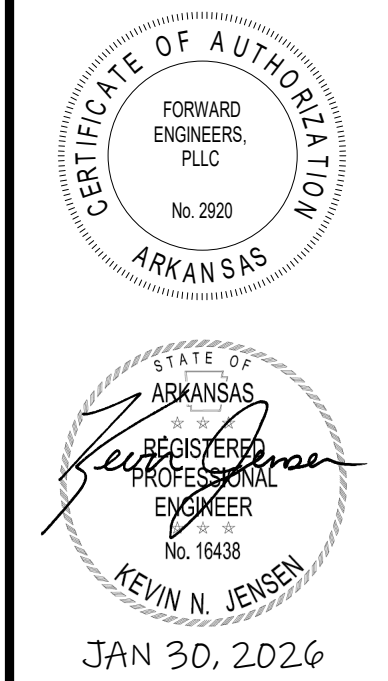
3. Steel Pipe Nipples: black steel, ASTM A733, made of ASTM A53/A53M, standard-weight, seamless steel pipe with threaded ends. 4. Steel Couplings: Galvanized, and, uncoated steel, ASTM A865/A865M, threaded. 5. Gray-Iron Threaded Fittings: Galvanized, and, uncoated gray-iron threaded fittings, ASME B16.4, Class 125, standard pattern. 6. Malleable- or Ductile-Iron Unions: ASME B16.3. 7. Cast-Iron Flanges: ASME B16.1, Class 125. Steel Flanges and Flanged Fittings: ASME B16.5, Class 150. a. Pipe-Flange Gasket Materials: AWWA C110, rubber, flat face, 1/8 inch thick, ASME B16.21, nonmetallic and asbestos free, or, EPDM rubber gasket. - Class 125 and Class 250, Cast-Iron, Flat-Face Flanges: Full-face gaskets. - Class 150 and Class 300, Ductile-Iron or -Steel, Raised-Face Flanges: Ring-type gaskets. b. Metal, Pipe-Flange Bolts and Nuts: ASME B18.2.1 carbon steel unless otherwise indicated. 9. Steel Welding Fittings: ASTM A234/A234M and ASME B16.9. - Welding Filler Metals: Comply with AWS D10.12M/D10.12 for welding materials appropriate for wall thickness and chemical analysis of steel pipe being welded. 10. Grooved-Joint, Steel-Pipe Appurtenances: - Pressure Rating: 175 psig minimum. - Grooved-End Fittings for Steel Piping: Comply with ASME A47/A47M, malleable-iron casting or ASTM A536, ductile-iron casting, with dimensions matching steel pipe. - Grooved-End-Pipe Couplings for Steel Piping: AWWA C606 and UL 213 rigid pattern, unless otherwise indicated, for steel-pipe dimensions; include ferrules in housing sections, EPDM-rubber gasket, and bolts and nuts. 11. Carbon Steel Pressure-Seal Fittings: UL 213, FM Approvals-approved, 175 psig pressure rating with carbon steel-, zinc-nickel-coated housing, EPDM O-rings, and pipe stop; for use with fitting manufacturers' pressure-seal tools. B. CPVC Pipe, Fittings, and Appurtenances: - CPVC Pipe: ASTM F442/F442M and UL 1821, SDR 13.5, for 175 psig rated pressure at 150 deg F, with plain ends. Include "LISTED" and "CPVC SPRINKLER PIPE" markings. - CPVC Fittings: UL listed, or, FM Approvals approved, for 175 psig rated pressure at 150 deg F; socket type. Include "LISTED" and "CPVC SPRINKLER FITTING" markings. - NPS 3/4 to NPS 1-1/2 (DN 20 to DN 40): ASTM F438 and UL 1821, Schedule 40, socket type. - NPS 2 to NPS 3 (DN 50 to DN 80): ASTM F439 and UL 1821, Schedule 80, socket type. - CPVC-to-Metal Transition Fittings: CPVC, one piece, with dimensions equivalent to pipe; one end with threaded brass insert, and one socket end. - CPVC-to-Metal Transition Unions: CPVC, with dimensions equivalent to pipe; one end with threaded brass insert, and one socket end. - Flanges: CPVC, one or two pieces. 3. Solvent Cements for Joining CPVC Piping and Tubing: ASTM F493 solvent cement recommended by pipe and fitting manufacturer, and made for joining CPVC sprinkler pipe and fittings. Include cleaner or primer recommended by pipe and fitting manufacturer. 4. Plastic Pipe-Flange Gasket and Bolts and Nuts: Type and material recommended by piping system manufacturer unless otherwise indicated.	3. Body Material: Ductile-iron housing with EPDM seals and bolts and nuts. 4. Type: Mechanical-tee and -cross fittings. 5. Configurations: Snap-on and strapless, ductile-iron housing with branch outlet. 6. Size: Of dimension to fit onto sprinkler main and with outlet connections as required to match connected branch piping. 7. Branch Outlets: Grooved, plain-end pipe, or threaded. B. Flow Detection and Test Assemblies: - Standard: UL's "Fire Protection Equipment Directory" or FM Approvals' "Approval Guide." - Pressure Rating: 175 psig minimum. - Body Material: Cast- or ductile-iron housing with orifice, sight glass, and integral test valve. - Size: Same as connected piping. - Inlet and Outlet: Threaded or grooved. C. Sprinkler Inspector's Test Fittings: - Standard: UL's "Fire Protection Equipment Directory" or FM Approvals' "Approval Guide." - Pressure Rating: 175 psig minimum. - Body Material: Cast- or ductile-iron housing with sight glass. - Size: Same as connected piping. - Inlet and Outlet: Threaded. D. Flexible Sprinkler Hose Fittings: - Standards: UL 2443 and FM 1637. - Description: Flexible hose for connection to sprinkler, and with bracket for connection to ceiling grid. - Pressure Rating: 175 psig minimum. - Size: Same as connected piping, for sprinkler. E. Automatic Air Vent: - Description: Automatic air vent that automatically vents trapped air without human intervention. Approved for use in wet-pipe fire-suppression system. - vents oxygen continuously from system. - Float valve to prevent movement of switch assembly on OS&Y valve. - Minimum Water Working Pressure Rating: 175 psig. 2.6 SPRINKLERS A. Standards: - UL 199. - UL 1767. - UL 1626. - FM 2000. - FM 2008. - FM 2030. B. Listed in UL's "Fire Protection Equipment Directory" or FM Approvals' "Approval Guide." C. Pressure Rating for Sprinklers: Standard Automatic Sprinklers: 175 psig D. Sprinklers, Automatic Wet with Heat-Responsive Element: - Characteristics: Nominal 1/2-inch orifice with Discharge Coefficient K of 5.6, and for "Ordinary" temperature classification rating unless otherwise indicated or required by application. - Standard Spray, Standard Response: - Upright. - Pendent. - Recessed pendent. - Flat, concealed pendent. - Vertical sidewall. - Horizontal sidewall. - Standard Spray, Quick Response: - Upright. - Pendent. - Recessed pendent. - Flat, concealed pendent. - Vertical sidewall. - Horizontal sidewall. - Flat, concealed horizontal sidewall. - Extended Coverage: - Upright. - Pendent. - Flat, concealed pendent. - Horizontal sidewall. - Flat, concealed horizontal sidewall. E. Sprinklers, Automatic Dry with Heat-Responsive Element: - Standard Spray, Standard Response: - Upright. - Pendent. - Recessed pendent. - Flat, concealed pendent. - Horizontal sidewall. - Flat, concealed horizontal sidewall. - Residential: - Recessed pendent. - Flat, concealed pendent. - Flat, concealed horizontal sidewall. F. Special Sprinklers: - Attic. - Combustible, concealed. - ESFR. - Flat spray. - Hallway. - Institutional. - MRI/Non-Ferrous, concealed. - Window. G. Open Sprinklers and Nozzles: - Nominal Orifice: 1/2 inch, with discharge coefficient K between 5.3 and 5.8. 1/32 inch with discharge coefficient K between 7.4 and 8.2. H. Sprinkler Finishes: Chrome plated to be verified with Architect. I. Sprinkler Escutcheons: Materials, types, and finishes for the following sprinkler mounting applications. Escutcheons for concealed, flush, and recessed-type sprinklers are specified with sprinklers. - Ceiling Mounting: Plastic, white finish, two piece, flat. - Sidewall Mounting: Plastic, white finish, two piece, flat. J. Sprinkler Guards and Water Shields: - Standard: UL 199. - Description: Wire cage with fastening device for attaching to sprinkler.	Components: Two single-pole, double-throw circuit switches for isolated alarm and auxiliary contacts, 7 A, 125 V ac and 0.25 A, 24 V dc; complete with factory-seal, field-adjustable retard element to prevent false signals and tamperproof cover that sends signal if removed. 4. Type: Paddle operated. 5. Pressure Rating: 250 psig. 6. Design Installation: Horizontal or vertical. D. Pressure Switches - Water-Flow Alarm Detection: - Description: Electrically supervised, pressure-activated water-flow switch with retard feature. 2. Components: Two single-pole, double-throw switches with normally closed contacts. 3. Design Operation: Rising pressure to 6 psi, plus or minus 2 psi signals water flow. 4. Adjustability: Each switch is to be independently adjustable. 5. Wire Separation: Pressure switch to provide for separation of wiring to each switch connection to allow for low- and high-voltage connections to comply with NFPA 70, Article 760 requirements. E. Valve Supervisory Switches: - Standard: UL 2443 and FM 1637. - Type: Electrically supervised. - Design: Signals that controlled valve is in other than fully open position. - Wire Terminal Designations: Indicates nominal switch position when switch is properly installed on valve and valve is fully open. - Electrical Connections: Devices, and accessories. Listed and labeled as defined in NFPA 70, by a qualified testing agency, and marked for intended location and application. - OS&Y Valve Supervisory Switches: - One or two single-pole, double-throw switches. - NEMA Rating: NEMA 4 and NEMA 6P enclosures suitable for mounting in any position indoors or outdoors. - Visual Switch Indication: Indicates device is properly installed and OS&Y valve is fully open. - Mounting Hardware: Mounting bracket to grip valve yoke and prevent valve to prevent movement of switch assembly on OS&Y valve. - Trip Rod Length: Adjustable 7. Butterfly Valve Supervisory Switches: - Two single-pole, double-throw switches. - NEMA Rating: NEMA 4 and NEMA 6P enclosures suitable for mounting in any position indoors or outdoors. - Mounting Hardware: Removable nipple. - Trip Rod Length: Adjustable 8. Ball Valve Supervisory Switches: - One single-pole, double-throw switch. - NEMA Rating: NEMA 4 and NEMA 6P enclosures suitable for mounting in any position indoors or outdoors. - Mounting Hardware: Suitable for mounting directly to pipe, ball valves, or backflow preventers sized from up to NPS 2. 2.8 PRESSURE GAUGES A. Standard: UL 393. B. Dial Size: 3-1/2- to 4-1/2-inch diameter. C. Pressure Gauge Range: 0 to 300 psig. D. Water System Piping Gauge: Include "WATER" label on dial face. 3.1 PREPARATION A. Perform fire-hydrant flow test. Use results for system design calculations required in "Quality Assurance" Article. - Flow test is to be performed to meet the criteria established by NFPA 13, and, NFPA 14. - Flow test is to be conducted in accordance with NFPA 291. - Test is to be performed during a period of ordinary demand for the water supply. - To obtain satisfactory test results of expected flow or rated capacities, sufficient discharge should be achieved to cause drop of at least 10 percent. - Pilot readings are to be taken at the 2-1/2-inch orifice connection. - The pilot reading is to range from 10 to 15 psig. - Open additional hydrant nozzles as needed to control pilot readings. - The pilot pressure and corresponding residual pressure readings are to be taken consecutively as pressure fluctuates between a high number and low number. B. Flow Test Data Written Report: - Flow data report is to be written in accordance with NFPA 291. - Flow data report is to include a copy of all flow data recorded during the test, including a site plan showing the tested fire hydrants with respect to the fire water service to the building. Site plan is to indicate which hydrant was flowed and which hydrant was used for pressure reading. - Provide date of test, name of testing agency, and name of individual performing test. C. Water Supply Curve: Provide water supply curve based on the lowest supply for a given set of test data. For a given residual pressure reading, the supply is to be graphed utilizing the corresponding pilot pressure/flow relationship and static pressure/flow relationship. D. Documentation is to include calibration certifications for gauges used in the flow tests. The certifications are to be from within the previous six (6) months from a reputable agency recognized for certifying pressure gauges. E. Report flow test results promptly and in writing. A copy of the flow test data report is to be submitted with the hydraulic calculations. 3.2 INSTALLATION OF FIRE-SUPPRESSION PIPING A. Locations and Arrangements: Drawing plans, schematics, and diagrams indicate general location and
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UNION BLOCK BUILDING

124 W WALNUT ST, ROGERS, AR 72756

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DRAWN BY: KN.I

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FIDE

FIRE SUPPRESSION SPECIFICATIONS

FX-002

124 W WALNUT ST, ROGERS, AR 72756