

ROOFTOP ADDITION

95% CONSTRUCTION DOCUMENTS - NOT FOR CONSTRUCTION

FOR PROJECT LOCATED AT
408 MARTIN LUTHER KING JR BLVD, SAVANNAH, GA 31401



PROJECT TEAM

OWNER CONTACT

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SAVANNAH, GA 31401
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GENERAL CONTRACTOR

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ROOF TOP ADDITION

AT

408 MARTIN LUTHER KING JR. BLVD.

COVER SHEET

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2022

JOB NUMBER

CONTRACT DATE

REVISIONS

NO.	DESCRIPTION	DATE

ISSUE DATE

2024.01.29

CURRENT DRAWING STATUS
CONSTRUCTION
DOCUMENTS

G-001

GENERAL PROJECT INFORMATION

NAME OF PROJECT: PROPERTY ADDRESS: PROPERTY PIN #: ZONING: PROPOSED USE: OWNER/AGENT: AUTHORITY HAVING JURISDICTION:	408 MLK JR BLVD 408 MLK JR BLVD, SAVANNAH, GA. 20031 36007 D-C COMMERCIAL & RESIDENTIAL TBD CITY OF SAVANNAH, GA	<u>DISCIPLINE</u>	<u>DESIGNER</u>	<u>COMPANY</u>	<u>LICENSE</u>	<u>PHONE</u>	<u>EMAIL</u>
FLOOD ZONE: ZONE X		ARCHITECTURE	JEROME ELDER	J. ELDER STUDIO	RA016400	(646) 619-7494	JEROME@JELDERSTUDIO.COM
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		PLUMBING & MECHANICAL ENGINEERING	ANDREW M. MCKEEVER	METHOD ENGINEERING	40556	(912) 963-1611	AMCKEEVER@METHODGEC.COM

OCCUPANCY LOAD (OCCUPANCY NFPA101 TABLE 7.3.1.2)

[illegible]

CODE REFERENCE GUIDE

CODE AREA	PRIMARY REFERENCE	SUPPLEMENTAL REFERENCE	203 - UNIT 203	RESIDENTIAL	597 SF	200	3
			204 - UNIT 204	RESIDENTIAL	683 SF	200	4
OCCUPANCY CLASSIFICATION	LSC (NFPA 101)	2018 IBC	301 - UNIT 301	RESIDENTIAL	659 SF	200	4
BUILDING CONSTRUCTION TYPES INCLUDING ALLOWABLE HEIGHT, ALLOWABLE BUILDING AREAS, AND THE REQUIREMENTS FOR SPRINKLER PROTECTION RELATED TO MINIMUM BUILDING CONSTRUCTION TYPES.	2018 IBC	LSC (NFPA 101)	302 - UNIT 302	RESIDENTIAL	906 SF	200	5
			303 - UNIT 303	RESIDENTIAL	597 SF	200	3
MEANS OF EGRESS	LSC (NFPA 101)	-	304 - UNIT 304	RESIDENTIAL	683 SF	200	4
STANDPIPES	2018 IBC	2018 IFC	401 - UNIT 401	RESIDENTIAL	2097 SF	200	14
INTERIOR FINISH	LSC (NFPA 101)	-	402 - UNIT 402	RESIDENTIAL	1663 SF	200	12
HAZARDOUS SYSTEMS	2018 IBC						

VERTICAL OPENINGS	LSC (NFPA 101)	-	EGRESS REQUIREMENTS
PERMITTED EXISTING MINIMUM EXISTENTIAL FRAME SIZE	LSC INTER. 12.11		

FIRE ALARM SYSTEMS SMOKE ALARMS AND SMOKE DETECTION SYSTEMS PORTABLE FIRE EXTINGUISHERS COOKING EQUIPMENT FUEL FIRED APPLIANCES LIQUID PROTELEUM GAS COMPRESSED NATURAL GAS	LSC (NFPA 101) LSC (NFPA 101) LSC (NFPA 101) 2018 IFC LSC (NFPA 101), NFPA 96 2018 IFGC LSC (NFPA 101) NFPA 52	- - - - NFPA 54 NFPA 54 -	NUMBER OF EXITS (NFPA 101 SECTION 38.2.4.4, SECTION 30.2.4.4, AND SECTION 30.2.4.6) NUMBER OF ACCESSIBLE EXITS (PER 2018 IBC SECTION 1009.1 AND SECTION 1105.1) EXIT ACCESS TRAVEL DISTANCE (TENANT AREAS) (PER NFPA 101 SECTION 38.2.4.4) EXIT ACCESS TRAVEL DISTANCE (RESIDENTIAL UNITS) (PER NFPA 101 SECTION 30.2.6.3.2 AND SECTION 30.2.6.3.3)	1 (001 TENANT SPACE) 1 (101 TENANT SPACE) 1 (RESIDENTIAL UNITS) 1 (001 TENANT SPACE) 1 (101 TENANT SPACE) 1 (RESIDENTIAL UNITS) 100 FT 100 FT (UNIT TO CORRIDOR) 200 FT (UNIT ENTRY TO EXIT)
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PROJECT OVERVIEW

DESCRIPTION	THE REHABILITATION OF AN EXISTING 3-STORY (W/ BASEMENT) BUILDING AND CONSTRUCTION OF A FOURTH STORY (W/ MEZZANINE) ADDITION.	EXIT SEPARATION DISTANCE		NA (SINGLE EXIT REQUIRED)					
OCCUPANCY CLASSIFICATION (PER NFPA 101, SECTION 6.1)	NON-SEPARATED MIXED USE - B (BASEMENT AND FIRST FLOOR) / R-2 (SECOND THROUGH FOURTH FLOORS)	DEAD END CORRIDORS (PER NFPA 101 SECTION 38.2.5.2 AND SECTION 30.2.5.4.2)		50 FT					
SPRINKLER SYSTEM	PROVIDED W/ NFPA 13 SYSTEM	EGRESS WIDTH (PER NFPA 101 TABLE 7.3.3.1)		0.3" PER PERSON (STAIRS) 0.2" PER PERSON (LEVEL)					
CONSTRUCTION TYPE (PER 2018 IBC, SECTION 602)	TYPE II-B (SOME EXISTING WOOD CONSTRUCTION TO REMAIN, NEW CONSTRUCTION WILL BE OF NON-COMBUSTIBLE MATERIALS)	MINIMUM MEANS OF EGRESS WIDTH (PER NFPA 101 SECTION 7.3.4.1 AND SECTION 30.2.3.3)		36" (SERVING UNDER 50) 44" (SERVING 50 OR ABOVE)					
BUILDING AREA (PER 2018 IBC, TABLE 506.2)	ALLOWABLE: R-2 (MOST RESTRICTIVE) - 48,000 SF AS DESIGNED: 18,126 SF	PLUMBING REQUIREMENTS (PER 2018 IBC TABLE 2902.1)							
BUILDING HEIGHT (PER 2018 IBC, TABLE 504.3)	ALLOWABLE: B (R-2 - 75 FT AS DESIGNED: 66 FT	NO TENANT SPACE 20 OCCUPANTS	WATER CLOSETS		LAVATORIES		BATHTUBS/ SHOWERS	DRINKING FOUNTAINS	OTHER
STORIES ABOVE GRADE PLANE (PER 2018 IBC, TABLE 504.4)	ALLOWABLE: B (MOST RESTRICTIVE) - 4 AS DESIGNED: 4	REQUIRED	1	N/A	0"	1	0"	1	1 SERVICE SINK
		AS DESIGNED							

FIRE RESISTANCE / FIRE SEPARATION REQUIREMENTS

FIRE-RESISTANCE RATING REQUIREMENTS FOR BUILDING ELEMENTS (PER 2018 IBC TABLE 601 AND TABLE 602)		REQUIRED	PROVIDED	001 TENANT SPACE 14 OCCUPANTS	WATER CLOSETS			LAVATORIES		BATH/TUBS/ SHOWERS	DRINKING FOUNTAINS	OTHER	
TYPE IIB CONSTRUCTION	PRIMARY STRUCTURAL FRAME	0	0	REQUIRED	1	N/A	0*	1	0*	0	0**	N/A***	
	BEARING WALLS (EXTERIOR)	2	2 (EXISTING)	AS DESIGNED									
	BEARING WALLS (INTERIOR)	0	0										
	NONBEARING WALLS AND PARTITIONS (EXTERIOR) (PER TABLE 602)	1	1										
	NONBEARING WALLS AND PARTITIONS (INTERIOR)	0	0										
	FLOOR CONSTRUCTION AND ASSOCIATED SECONDARY MEMBERS	0	0										
	ROOF CONSTRUCTION AND ASSOCIATED SECONDARY MEMBERS	0	0										
SHAFT ENCLOSURES (PER NFPA 101 SECTION 8.6.5)		2 HR (4 OR MORE STORIES) 1 HR (LESS THAN 4 STORIES)	2 HR (4 OR MORE STORIES) 1 HR (LESS THAN 4 STORIES)										
EXIT ACCESS CORRIDORS (PER NFPA 101 30.3.6.1.2 AND SECTION 30.2.4.6)		1HR	1HR										
STAIRS (PER NFPA 101 SECTION 7.2.2.5.1.1)		2 HR (4 OR MORE STORIES) 1 HR (LESS THAN 4 STORIES)	2 HR (4 OR MORE STORIES) 1 HR (LESS THAN 4 STORIES)										
EXIT PASSAGEWAYS (PER NFPA 101 SECTION 30.2.2.1.2 AND SECTION 7.2.6.3)		2HR	2HR										
OPENING FIRE PROTECTION ASSEMBLIES, RATINGS, AND MARKINGS (PER 2018 IBC, TABLE 716.1(2))		N/A	N/A										
ENCLOSURES FOR SHAFTS AND INTERIOR EXIT STAIRWAYS		2 HR (ASSEMBLY RATING) 1.5 HR (DOOR RATING)	2 HR (ASSEMBLY RATING) 1.5 HR (DOOR RATING)										
FIRE PARTITIONS: CORRIDOR WALLS		1 / 0.5 HR (ASSEMBLY RATING) 1/3 HR (DOOR RATING)	1 / 0.5 HR (ASSEMBLY RATING) 1/3 HR (DOOR RATING)										
DWELLING UNIT SEPARATION (PER NFPA 101, SECTION 30.3.7.2)		0.5 HR (SPRINKLERED)	0.5 HR (SPRINKLERED)										
					RESIDENTIAL UNITS (PER DWELLING UNIT)	WATER CLOSETS			LAVATORIES		BATH/TUBS/ SHOWERS	DRINKING FOUNTAINS	OTHER
					REQUIRED	1			1				
					AS DESIGNED	SEE PLANS			SEE PLANS		SEE PLANS	0	SEE PLANS
* PER 2018 IPC SECTION 2902.2 EXCEPTION 4 - SEPARATE FACILITIES SHALL NOT BE REQUIRED IN BUSINESS OCCUPANCIES IN WHICH THE MAXIMUM OCCUPANT LOAD IS 25 OR FEWER (UNISEX FACILITIES WILL BE PROVIDED AND INCLUDED UNDER THE MALE PLUMBING COUNTS)													
** PER 2018 IPC SECTION 2902.6 - DRINKING FOUNTAINS SHALL NOT BE REQUIRED FOR AN OCCUPANT LOAD OF 15 OR FEWER													
*** PER 2018 IPC TABLE 2902.1 FOOTNOTE E - FOR BUSINESS AND MERCANTILE CLASSIFICATIONS WITH AN OCCUPANT LOAD OF 15 OR FEWER, A SERVICE SINK SHALL NOT BE REQUIRED													
MISCELLANEOUS NOTES													

ENERGY REQUIREMENTS

REFER TO THE PROVIDED ENVELOPE, LIGHTING, AND MECHANICAL COMCHECKS

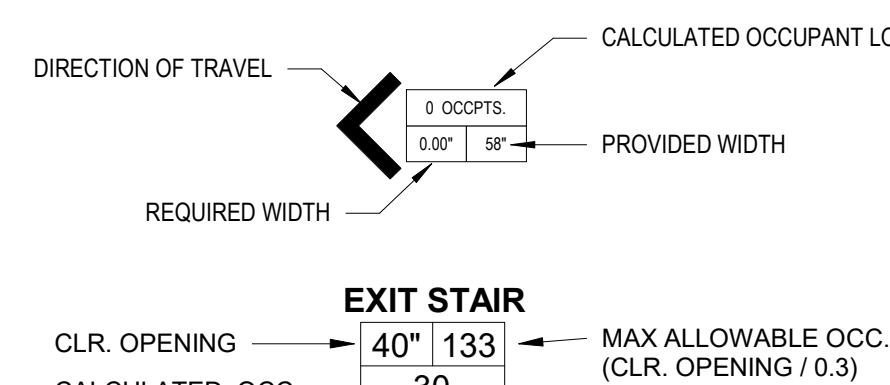
LIFE SAFETY LEGEND

- - - - - 0.5 HR REQUIRED FIRE SEPARATION
 - - - - - 1 HR REQUIRED FIRE SEPARATION
 - - - - - 2 HR REQUIRED FIRE SEPARATION
 - - - - - 3 HR REQUIRED FIRE SEPARATION
 - - - - - 3 HR REQUIRED FIRE SEPARATION

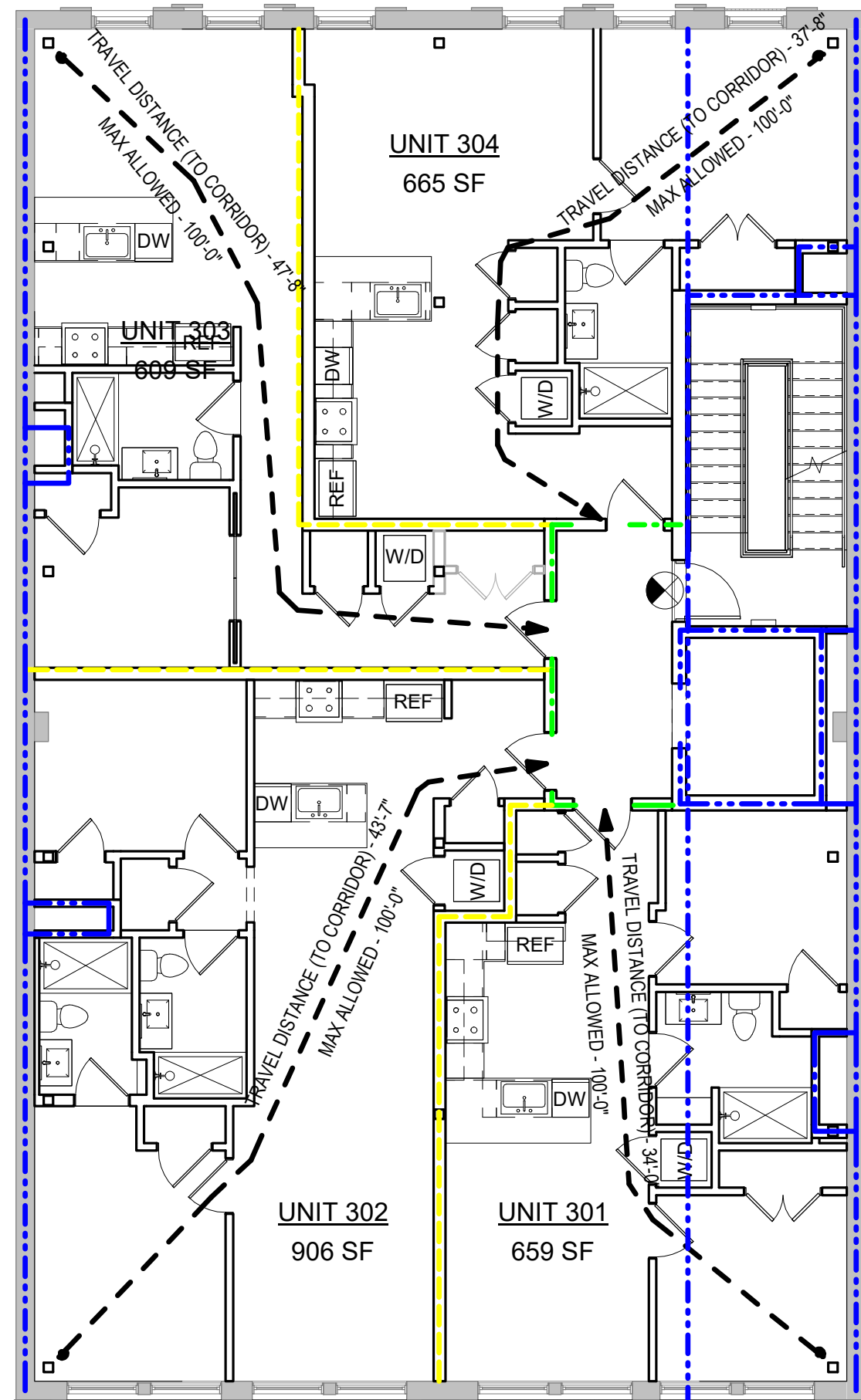
NOTE: SEE SHEET A-002 FOR CONSTRUCTION OF PARTITION TYPES

NOTE: SEE SHEET A-002 FOR CONSTRUCTION OF PARTITION TYPES

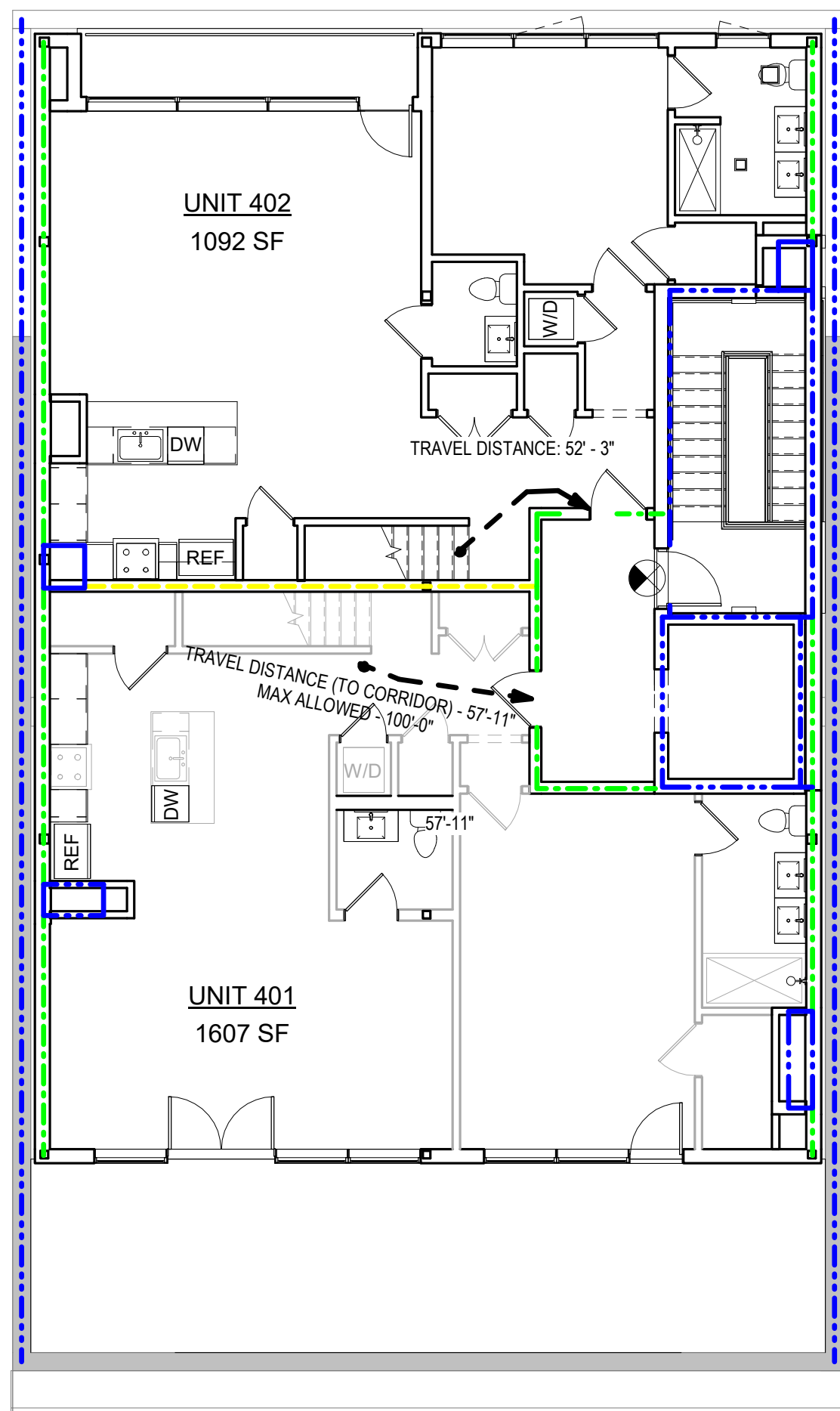
EXIT DOOR & STAIR TAG KEY



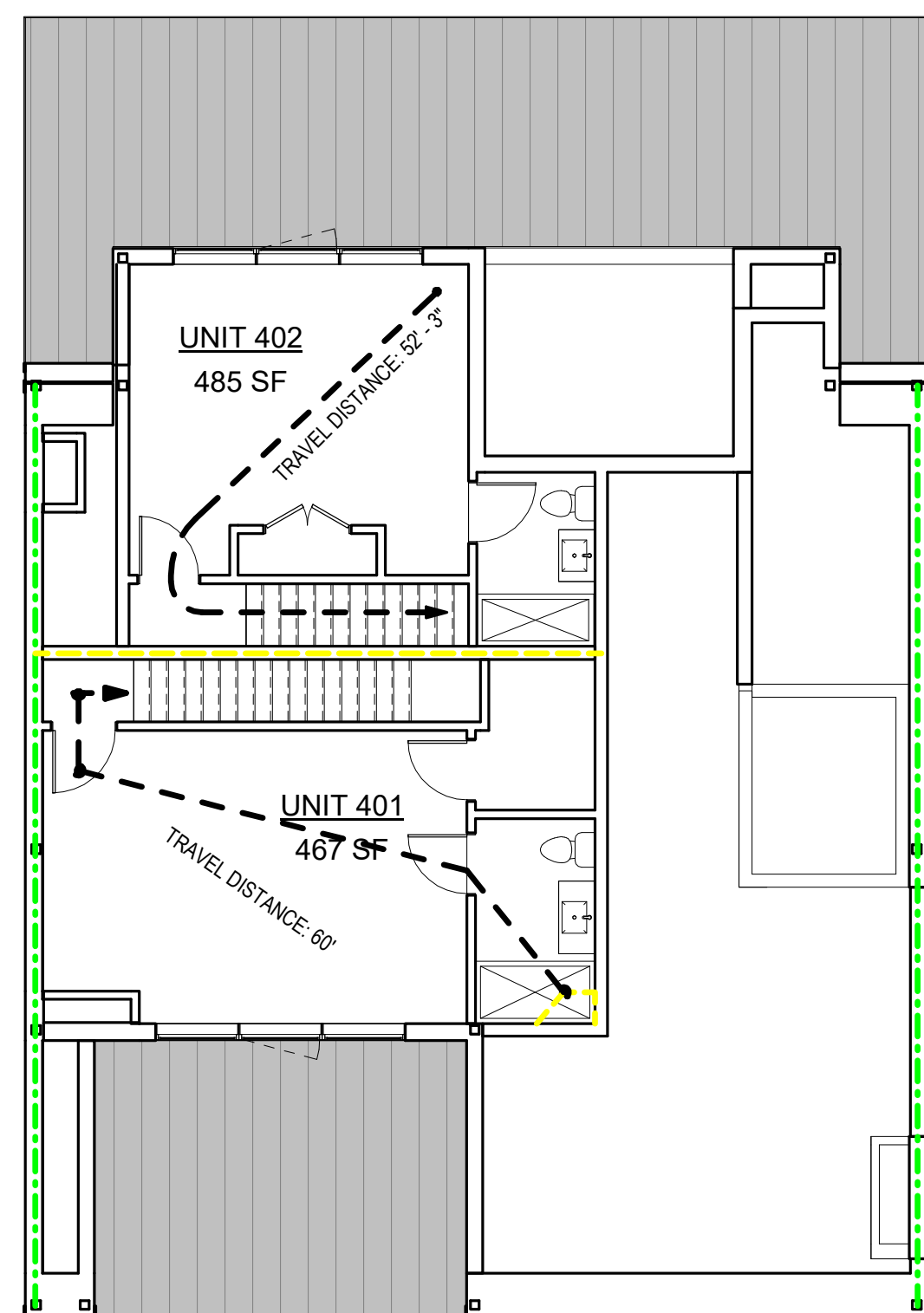
* TRAVEL DISTANCE TO CORRIDORS FOR EACH UNIT SHOWN, REFER TO FIRST FLOOR PLAN FOR LONGEST TRAVEL DISTANCE FROM UNIT ENTRY TO EXIT (FROM UNIT 401)



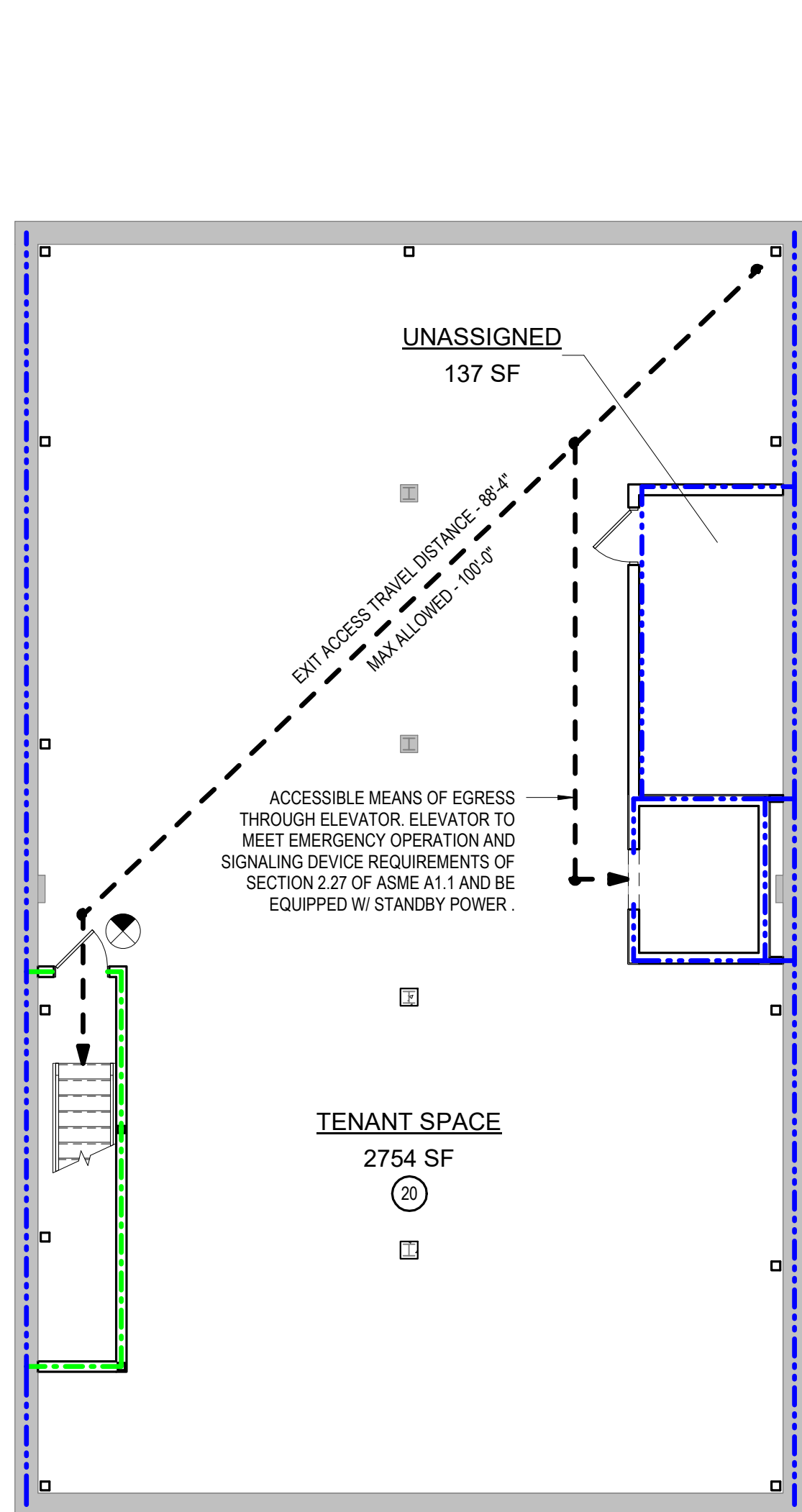
4 LIFE SAFETY PLAN - THIRD FLOOR
1/8" = 1'-0"



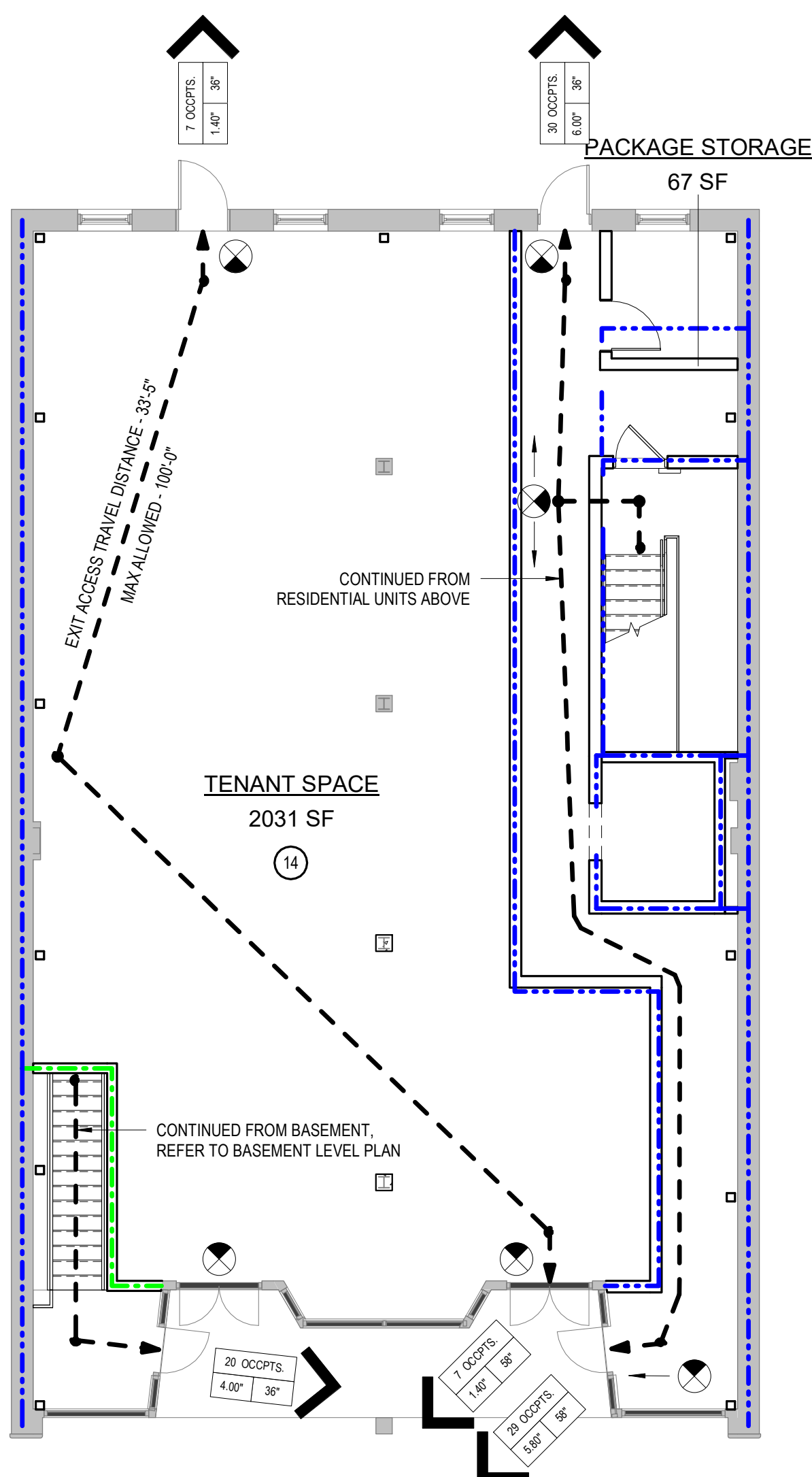
5 LIFE SAFETY PLAN - FOURTH FLOOR
1/8" = 1'-0"



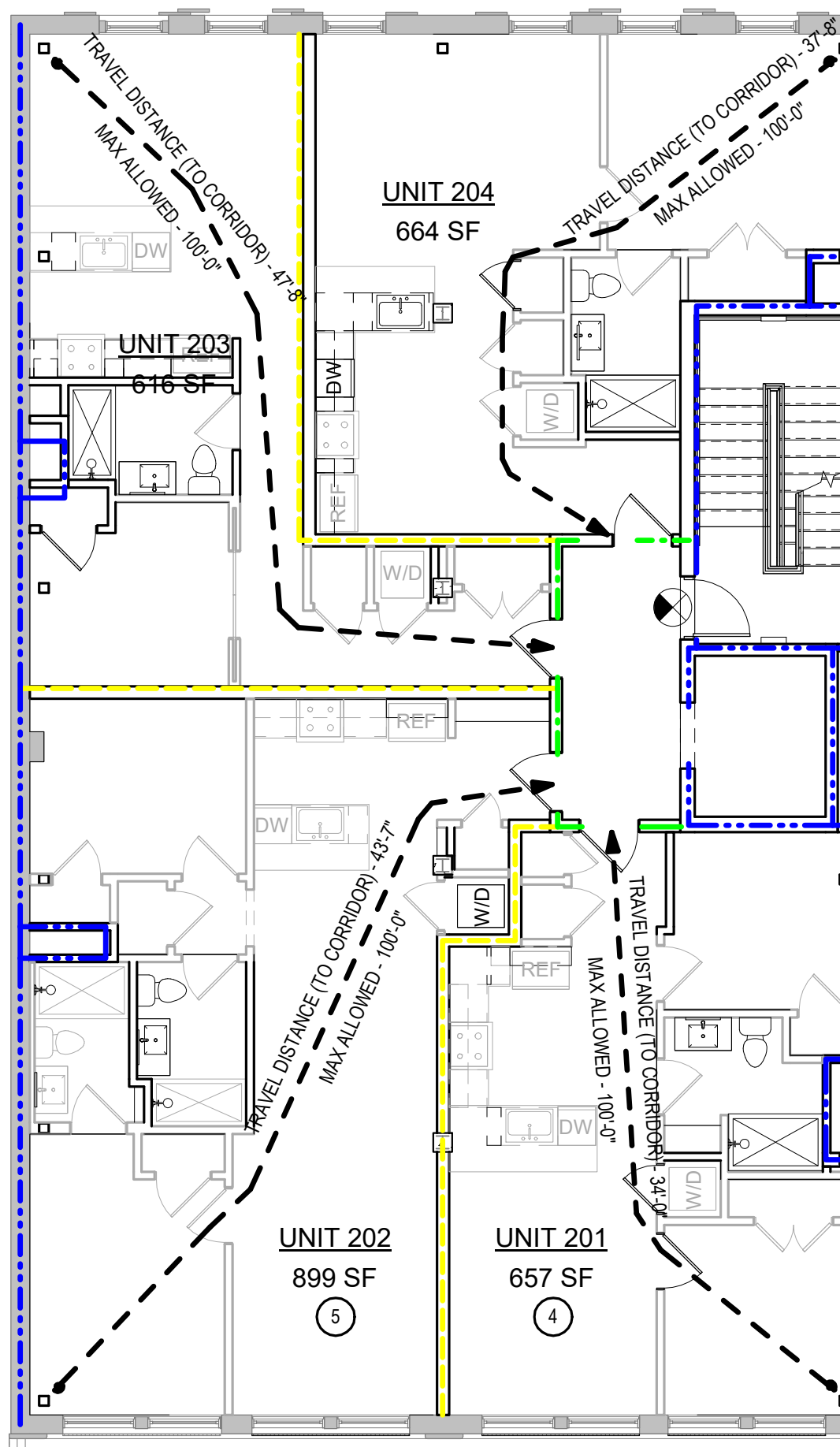
6 LIFE SAFETY PLAN - MEZZANINE
1/8" = 1'-0"



① LIFE SAFETY PLAN - BASEMENT
1/8" = 1'-0"



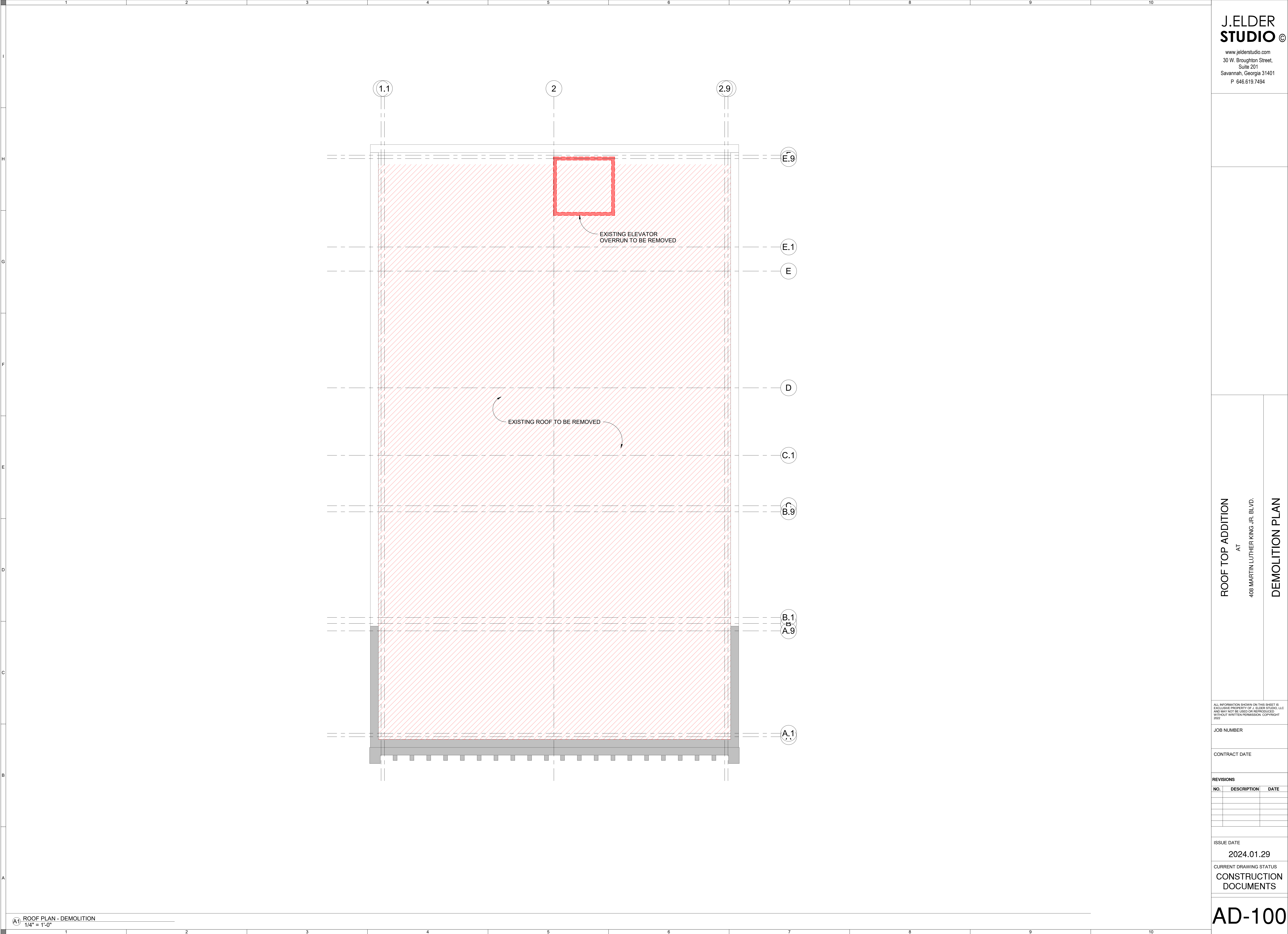
② LIFE SAFETY PLAN - FIRST FLOOR
1/8" = 1'-0"



3 LIFE SAFETY PLAN - SECOND FLOOR
1/8" = 1'-0"

* TRAVEL DISTANCE TO CORRIDORS FOR EACH UNIT SHOWN, REFER TO FIRST FLOOR PLAN FOR LONGEST TRAVEL DISTANCE FROM UNIT ENTRY TO EXIT (FROM UNIT 401)

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2022



ROOF TOP ADDITION
AT
408 MARTIN LUTHER KING JR. BLVD.
DEMOLITION PLAN

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2024.01.29

CURRENT DRAWING STATUS
CONSTRUCTION
DOCUMENTS

AD-100

STEEL JOISTS

- ALL STEEL JOISTS SHALL BE DESIGNED, FABRICATED AND ERECTED IN ACCORDANCE WITH STEEL JOIST INSTITUTE (SJI) STANDARD SPECIFICATIONS AND CODE OF STANDARD PRACTICE (LATEST EDITION).
- THE JOIST MANUFACTURER SHALL BE RESPONSIBLE FOR THE COMPLETE DESIGN, FABRICATION AND ERECTION PROCEDURES OF ALL JOISTS, BRIDGING AND/OR BRACING, ETC. FOR A COMPLETE INSTALLATION OF THE JOIST SYSTEM. CONNECTIONS AND BEARING MATERIAL TO BE SHOP CONNECTED TO JOISTS AND DESIGNED AND FURNISHED BY JOIST FABRICATOR.
- THE JOIST MANUFACTURER SHALL BE A SJI CERTIFIED SHOP AND MAINTAIN APPROVED FABRICATION PROCEDURES AS REQUIRED TO SATISFY THE SPECIAL INSPECTION REQUIREMENTS OF THE INTERNATIONAL BUILDING CODE (IBC).
- JOIST SIZES ARE INDICATED ON PLANS AND SCHEDULES USING STANDARD SJI JOIST DESIGNATIONS. JOISTS SHALL BE DESIGNED PER SJI STANDARD LOAD TABLES INCLUDING ANY SPECIAL OR ADDITIONAL LOADS NOTED ON THE PLANS, STRUCTURAL NOTES, OR DETAILS.
- ROOF JOISTS SHALL BE DESIGNED TO RESIST A NET UPLIFT OF 15 PSF.
- ROOF AND FLOOR JOISTS SHALL BE DESIGNED TO LIMIT THE ALLOWABLE DEFLECTIONS TO THE FOLLOWING:
 - LIVE LOAD DEFLECTION LIMIT = L/360.
 - TOTAL LOAD DEFLECTION LIMIT = L/240.
- JOIST BRIDGING SHALL CONFORM TO SJI SPECIFICATIONS AND AS INDICATED ON THE DRAWINGS.
- PROVIDE AN ADDITIONAL ROW OF CONTINUOUS HORIZONTAL BOTTOM CHORD BRIDGING AT THE FIRST PANEL POINT LOCATION AT EACH END OF ALL ROOF JOISTS (TO RESIST WIND UPLIFT). UPLIFT BRIDGING SHALL TERMINATE WITH DIAGONAL BRIDGING AT ALL END BAYS.
- ALL JOISTS SHALL A MINIMUM BEARING PER DETAIL AND JOIST MANUFACTURER AND SHALL BE PROPERLY ANCHORED AT BEARING POINTS.
- JOIST BRIDGING AND CONNECTIONS SHALL BE COMPLETELY INSTALLED PRIOR TO PLACING ANY CONSTRUCTION LOADS ON THE JOISTS. CONSTRUCTION LOADING SHALL NOT EXCEED THE JOIST DESIGN LOAD.
- ALL JOISTS SHALL BE SHOP PAINTED WITH RUST-INHIBITING PRIMER THAT CONFORMS TO THE SJI SPECIFICATIONS.
- REQUIRED STEEL JOISTS SUBMITTALS TO THE ENGINEER:
 - PRODUCT DATA - SUBMIT DATA TO SHOW COMPLIANCE WITH MATERIAL REQUIREMENTS.
 - DESIGN CALCULATIONS - SUBMIT CALCULATIONS FOR ALL SPECIAL JOISTS PRIOR TO FABRICATION. THESE CALCULATIONS SHALL BEAR THE SIGNED AND DATED SEAL OF A PROFESSIONAL ENGINEER REGISTERED IN THE STATE WHERE MANUFACTURED.
 - SHOP DRAWINGS - SUBMIT STEEL JOIST PLACEMENT PLANS TO SHOW THE MATERIAL AS SPECIFIED TO BE UTILIZED FOR FIELD INSTALLATION IN ACCORDANCE WITH SPECIFIC PROJECT REQUIREMENTS. PLACEMENT PLANS SHALL INCLUDE, AT A MINIMUM, THE FOLLOWING:
 - LISTING OF ALL APPLICABLE LOADS USED IN THE DESIGN OF THE STEEL JOISTS AND JOIST GIRDERS AS SPECIFIED IN THE CONSTRUCTION DOCUMENTS.
 - PROFILES FOR NON-STANDARD JOIST AND JOIST GIRDER CONFIGURATIONS.
 - CONNECTION REQUIREMENTS FOR JOIST SUPPORTS, JOIST GIRDER SUPPORTS, FIELD SPLICES, AND BRIDGING ATTACHMENTS.
 - DEFLECTION CRITERIA FOR LIVE LOAD AND TOTAL LOADS FOR NON-SJI STANDARD JOISTS.
 - SIZE, LOCATION, AND CONNECTIONS FOR ALL BRIDGING.
 - JOIST HEADERS.

STEEL NON-COMPOSITE FORM DECK

- STEEL DECKING SHALL COMPLY WITH CALCULATED STRUCTURAL CHARACTERISTICS OF STEEL DECK ACCORDING TO AISI NORTH AMERICAN SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS.
 - NON-COMPOSITE FORM DECK SHALL BE RIBBED-STEEL SHEET FORM-DECK PANELS TO COMPLY WITH SDI SPECIFICATIONS AND COMMENTARY FOR NON-COMPOSITE STEEL FORM DECK IN SDI PUBLICATION NO. 31 AND WITH THE FOLLOWING:
 - GALVANIZED-STEEL SHEET: ASTM A653, G90 ZINC COATING.MINIMUM SECTION PROPERTIES: (DECK PRODUCTS WITH DEVIATIONS UP TO 10% FROM LISTED VALUES ARE ACCEPTABLE WITHOUT THE WRITTEN APPROVAL FROM ENGINEER).
- | FORM DECK SECTION PROPERTIES | | | | | | |
|------------------------------|----------------|--------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|----------------------|
| DECK TYPE | THICKNESS (IN) | l _y (IN ⁴ /FT) | l _x (IN ⁴ /FT) | S _y (IN ³ /FT) | S _x (IN ³ /FT) | F _y (KSI) |
| 0.6C22 | 0.0295 | 0.022 | 0.022 | 0.073 | 0.073 | 60 |
| 1.0C24 | 0.0238 | 0.056 | 0.056 | 0.098 | 0.105 | 60 |
| 1.5C22 | 0.0295 | 0.173 | 0.139 | 0.177 | 0.167 | 50 |
- PROVIDE A MINIMUM END BEARING OF 2" OVER SUPPORTS. END LAPS OF SHEETS SHALL BE A MINIMUM OF 2" AND SHALL OCCUR OVER SUPPORTS.
 - ALL OPENINGS LARGER THAN 12", AND AS DETAILED, SHALL HAVE STEEL FRAMING SUPPORTING ALL EDGES. SEE DETAILS HEREIN.
 - DECK SHALL BE FABRICATED SO THAT DECK RUNS CONTINUOUSLY OVER OPENINGS. THE OPENINGS SHALL NOT BE CUT UNTIL NEEDED.
 - ALL STEEL DECK WELDING SHALL BE IN ACCORDANCE WITH AMERICAN WELDING SOCIETY SPECIFICATIONS D1.3. PROVIDE WELDING WASHERS FOR ALL FLOOR DECK WELDS.
 - SUSPENDED CEILINGS, LIGHT FIXTURES, DUCTS AND OTHER PERMANENT SUSPENDED LOADS SHALL NOT BE SUPPORTED BY THE METAL DECKING.
 - REQUIRED STEEL DECKING SUBMITTALS TO THE ENGINEER:
 - PRODUCT DATA - SUBMIT DATA TO SHOW COMPLIANCE WITH MATERIAL AND SECTION REQUIREMENTS.
 - SHOP DRAWINGS - SUBMIT DETAILED SHOP DRAWINGS PRIOR TO FABRICATION SHALL INCLUDE LAYOUT AND TYPES OF DECK PANELS, ANCHORAGE DETAILS, REINFORCING CHANNELS, PANES, CUT DECK OPENINGS, SPECIAL JOINTING, ACCESSORIES, AND ATTACHMENTS TO OTHER CONSTRUCTION.

ROUGH CARPENTRY

- ALL WOOD FRAMING SHALL COMPLY WITH THE NATIONAL FOREST PRODUCTS ASSOCIATION'S NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION (NDS).
- ALL WOOD FRAMING MEMBERS ARE DESIGNED TO ACT AS A SYSTEM ONCE CONSTRUCTION IS COMPLETE. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ENSURE SAFETY AND STABILITY OF WOOD FRAMING SYSTEMS (I.E. TEMPORARY BRACING) DURING CONSTRUCTION AS A RESULT OF CONSTRUCTION METHODS AND SEQUENCES.
- WOOD FRAMING MATERIALS:
 - DIMENSIONAL LUMBER SHALL BE #2 SOUTHERN YELLOW PINE.
 - LAMINATED VENEER LUMBER (LVL) SHALL BE MICROLAM LVL GRADE 2.0E MANUFACTURED BY WEYERHAEUSER TRUS JOIST.
 - PARALLEL STRAND LUMBER (PSL) SHALL BE PARALLAM PSL MANUFACTURED BY WEYERHAEUSER TRUS JOIST WITH THE FOLLOWING GRADES:
 - HEADER AND BEAM SIZES = 2.0E GRADE
 - COLUMN AND POST SIZES = 1.8E GRADE
- ALL WOOD FRAMING MATERIAL SHALL BE SURFACED DRY AND USED AT 19% MAXIMUM MOISTURE CONTENT.
- ALL LUMBER EXPOSED TO EXTERIOR ENVIRONMENT OR IN CONTACT WITH MASONRY OR CONCRETE SHALL BE PRESSURE TREATED TO A MINIMUM RETENTION OF 0.25 lbs. OF ACQ PER CUBIC FOOT OF WOOD, AND EACH PIECE SHALL BEAR THE THIRD PARTY QUALITY MARK, "ABOVE GRADE USE". ALL LUMBER IN CONTACT WITH THE GROUND SHALL BE PRESSURE TREATED TO A MINIMUM RETENTION OF 0.40 lbs. OF ACQ PER CUBIC FOOT OF WOOD, AND EACH PIECE SHALL BEAR THE THIRD PARTY QUALITY MARK, "GROUND CONTACT USE". REFERENCE STANDARD AWPA C2 AND ASTM D1760 FOR PRESSURE TREATMENT OF TIMBER PRODUCTS.
- WHERE POSSIBLE ALL CUTS AND HOLES SHOULD BE COMPLETED BEFORE TREATMENT. CUTS AND HOLES DUE TO ON-SITE FABRICATION SHALL BE BRUSHED WITH 2 COATS OF COPPER NAPHTHENATE SOLUTION CONTAINING A MINIMUM OF 2% METALLIC COPPER IN SOLUTION (PER AWPA STD. M4).
- THE CONTRACTOR SHALL CAREFULLY SELECT LUMBER TO BE USED IN LOAD BEARING APPLICATIONS. THE LENGTH OF SPLIT ON THE WIDE FACE OF 2" NOMINAL LOAD BEARING FRAMING SHALL BE LIMITED TO LESS THAN 1/3 OF THE WIDE FACE DIMENSION. THE LENGTH OF SPLIT ON THE WIDE FACE OF 3" (NOMINAL) AND THICKER LUMBER SHALL BE LIMITED TO 1/4 OF THE NARROW FACE DIMENSIONS.
- LOCATION, NUMBER, AND DIMENSIONS OF FRAMING MEMBERS SHOW GENERAL ARRANGEMENT ONLY. ACTUAL SPANS, SPACINGS, ETC. SHALL BE DETERMINED FROM ARCHITECTURAL DETAILS.
- SEE ARCHITECTURAL PLANS AND DETAILS FOR EDGE SECTIONS, HEADER AND UNTEL LOCATIONS, AND ALL NON STRUCTURAL FRAMING AND TRIM.
- FOR ALL JOISTS AND RAFTERS PROVIDE FULL-DEPTH BLOCKING AT ENDS, AT MIDSPAN, AND AT A MAXIMUM SPACING OF 8 FEET IN BETWEEN.
- ALL ENGINEERED WOOD PRODUCTS SHALL BE BRIDGED, BLOCKED, AND BRACED IN CONFORMANCE WITH THE MANUFACTURERS RECOMMENDATION.
- LOAD BEARING STUD WALLS SHALL BE CONTINUOUSLY BRIDGED AT MID-HEIGHT AND UNSUPPORTED PLYWOOD WALL SHEATHING JOINTS WITH SOLID WOOD BLOCKING, UNLESS NOTED OTHERWISE.
- NO CUTS, HOLES, OR COPES IN STRUCTURAL WOOD FRAMING SHALL BE PERMITTED WITHOUT PRIOR REVIEW AND APPROVAL BY THE STRUCTURAL ENGINEER AND ARCHITECT.
- ALL BOLTS, CARRIAGE BOLTS, LAG SCREWS, EXPANSION BOLTS AND EPOXY BOLTS SHALL BE INSTALLED WITH STANDARD CUT WASHERS UNDER THE BOLT HEADS AND NUTS THAT BEAR DIRECTLY ON THE WOOD. ALL NUTS SHALL BE TIGHTENED AT THE TIME OF INSTALLATION AND RE-TIGHTENED IF NECESSARY, DUE TO WOOD SHRINKAGE, PRIOR TO CLOSE-IN OR A THE COMPLETION OF THE PROJECT. BOLTS AND LAG SCREWS SHALL CONFORM TO ANSII/ASME STANDARD B18.2.1. WOOD SCREWS SHALL CONFORM TO B18.6.1. ALL BOLTS SHALL CONFORM TO ASTM A307 GRADE A UNLESS NOTED OTHERWISE. THE MINIMUM STRENGTHS FOR LAG SCREWS AND WOOD SCREWS SHALL BE AS FOLLOWS.

SCREW YIELD STRENGTH		
SCREW DIAMETER	SCREW TYPE	YIELD STRENGTH
#6 (0.138 IN.)	WOOD SCREW	100 KSI
#7 (0.151 IN.)	WOOD SCREW	90 KSI
#8 (0.164 IN.)	WOOD SCREW	90 KSI
#9 (0.177 IN.)	WOOD SCREW	90 KSI
#10 (0.190 IN.)	WOOD SCREW	80 KSI
#12 (0.216 IN.)	WOOD SCREW	80 KSI
#14 (0.246 IN.)	WOOD SCREW	70 KSI
1/4 IN.	LAG SCREW	70 KSI
5/16 IN.	LAG SCREW	60 KSI
3/8 IN. AND GREATER	LAG SCREW	45 KSI

- BOLT HOLES SHALL BE CAREFULLY CENTERED AND DRILLED NOT MORE THAN 1/16" LARGER THAN THE BOLT DIAMETER. BOLTED CONNECTIONS SHALL BE SNUG TIGHT BUT NOT TO THE EXTENT OF CRUSHING WOOD UNDER WASHERS.
 - LAG SCREWS SHALL BE BORED PER NDS 12.1.4.
 - ALL PLATES, ANCHORS, NAILS, BOLTS, NUTS, WASHERS, AND OTHER MISCELLANEOUS HARDWARE SHALL BE HOT DIP GALVANIZED IN PRESERVATIVE-TREATED AND FIRE-RETARDANT-TREATED WOODS.
 - ALL NAILS FOR STRUCTURAL WORK SHALL BE COMMON WIRE NAILS UNLESS NOTED OR DETAILED OTHERWISE MEETING ASTM F1667. HOLES SHALL BE PRE-DRILLED WHERE NECESSARY TO PREVENT SPLITTING. NAILS SHALL HAVE THE MINIMUM PROPERTIES SPECIFIED IN THE TABLE BELOW.
- | NAIL YIELD STRENGTH | |
|-----------------------------|----------------|
| NAIL SIZE | YIELD STRENGTH |
| 6d (0.133 IN. x 2 IN.) | 100 KSI |
| 8d (0.131 IN. x 2 1/2 IN.) | 90 KSI |
| 10d (0.148 IN. x 3 IN.) | 90 KSI |
| 12d (0.148 IN. x 3 1/4 IN.) | 90 KSI |
| 16d (0.162 IN. x 3 1/2 IN.) | 80 KSI |
| 20d (0.192 IN. x 4 IN.) | 80 KSI |
- PROVIDE DOUBLE JOISTS OR SOLID BLOCKING AT 24" O.C. UNDER ALL PARTITIONS AND TO SUPPORT CONCENTRATED LOADS FROM FRAMING ABOVE, UNLESS NOTED OTHERWISE.
 - CUTTING AND NOTCHING OF SAWN LUMBER JOISTS, SAWN LUMBER RAFTERS AND STUDS SHALL BE IN CONFORMANCE WITH THE FOLLOWING CRITERIA:
 - JOISTS - NOTCHES AT THE ENDS OF JOISTS SHALL NOT EXCEED 1/5TH THE JOIST DEPTH. HOLES BORED IN JOISTS SHALL NOT BE WITHIN 2 1/2 INCHES OF THE TOP OR BOTTOM OF THE JOIST, AND THE DIAMETER OF ANY SUCH HOLE SHALL NOT EXCEED 1/4TH THE DEPTH OF THE JOIST. NOTCHES IN THE TOP OR BOTTOM OF THE JOISTS SHALL NOT EXCEED 1/6TH THE DEPTH AND SHALL NOT BE LOCATED IN THE MIDDLE THIRD OF THE SPAN.
 - RAFTERS - NOTCHING AT THE ENDS OF RAFTERS OR CEILING JOISTS SHALL NOT EXCEED 1/5TH THE DEPTH. NOTCHES IN THE TOP OR BOTTOM OF THE RAFTER OR CEILING JOIST SHALL NOT EXCEED 1/6TH THE DEPTH AND SHALL NOT BE LOCATED IN THE MIDDLE 1/3RD OF THE SPAN, EXCEPT THAT A NOTCH NOT EXCEEDING 1/3RD OF THE DEPTH IS PERMITTED IN THE TOP OF THE RAFTER OR CEILING JOIST NOT FURTHER FROM THE FACE OF THE SUPPORT THAN THE DEPTH OF THE MEMBER. HOLES BORED IN RAFTERS OR CEILING JOISTS SHALL NOT BE 2 1/2 INCHES OF THE TOP AND BOTTOM AND THEIR DIAMETER SHALL NOT EXCEED 1/4TH THE DEPTH OF THE MEMBER.
 - WALL STUDS - A MAXIMUM OF 2 1/2 -INCH DIAMETER NEATLY BORED HOLE MAY BE PLACED IN THE CENTER OF ALL BEARING 2x6 STUDS WITH NO ADDITIONAL REINFORCEMENT REQUIRED.
 - CUTTING AND NOTCHING OF ENGINEERED WOOD PRODUCTS SHALL ADHERE TO THE ALLOWANCES PROVIDED BY THE MANUFACTURER.



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J ELDER
STUDIO

408 MLK JR
BLVD

SAVANNAH, GEORGIA

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STRUCTURAL NOTES

S002

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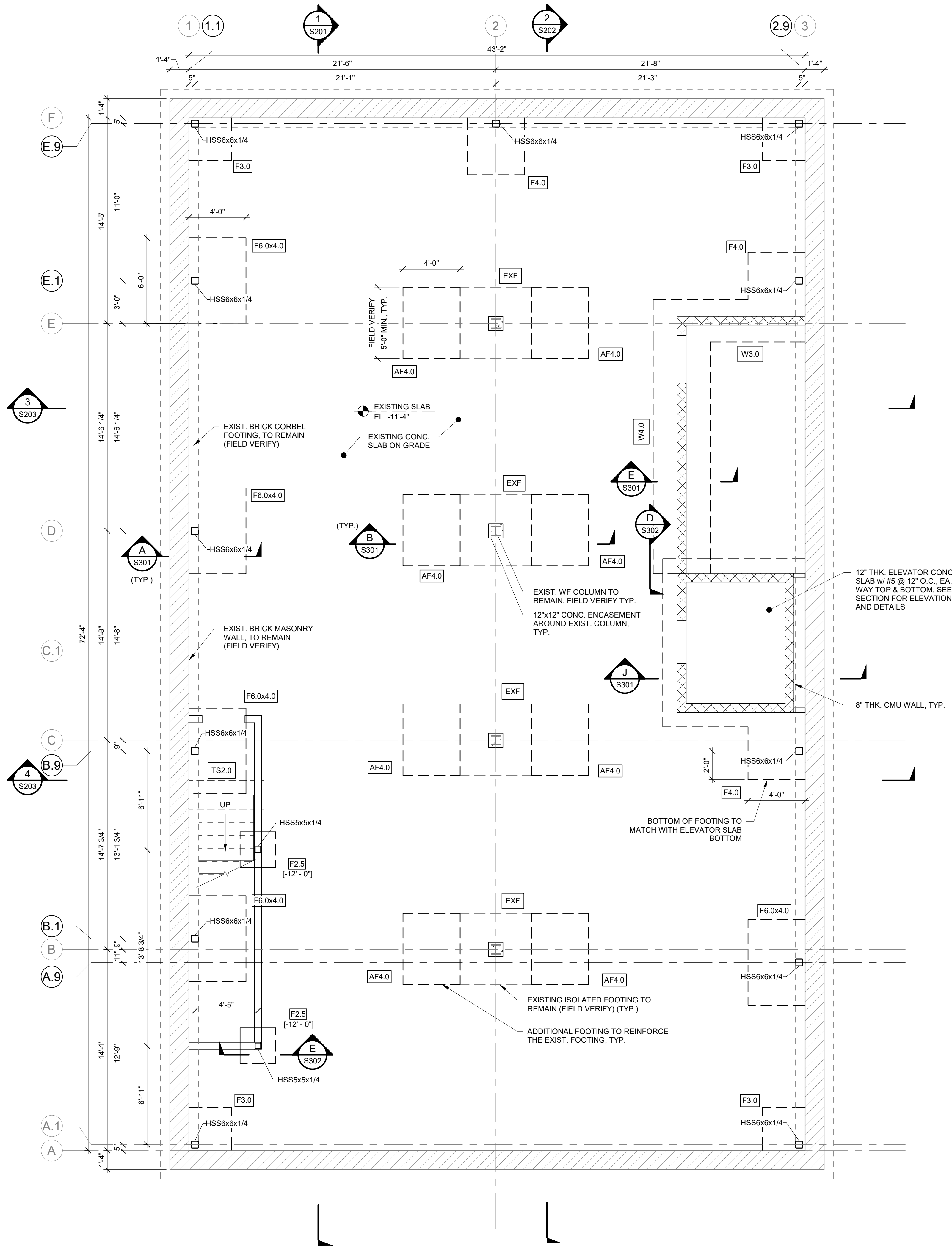
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SAVANNAH, GEORGIA

PROJECT NO. 22.295
DATE 03/29/24
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BASEMENT SLAB AND
FOUNDATION PLAN

S101



- PLAN NOTES:
1. BASE SLAB ELEVATION (0'-0") IS EXISTING FIRST FLOOR ELEVATION.
 2. REFER TO ARCHITECTURAL DRAWINGS FOR ALL DIMENSIONS AND ELEVATIONS. DOOR AND WINDOW OPENING LOCATIONS NOT SHOWN.
 3. ALL NEW EXTERIOR COLUMN BOTTOM OF FOOTING ELEVATIONS TO BE MATCHED WITH EXISTING BRICK BOTTOM OF FOOTING.
 4. ALL EXISTING GRID, BRICK WALL AND STEEL DIMENSIONS ARE TO BE FIELD VERIFIED.

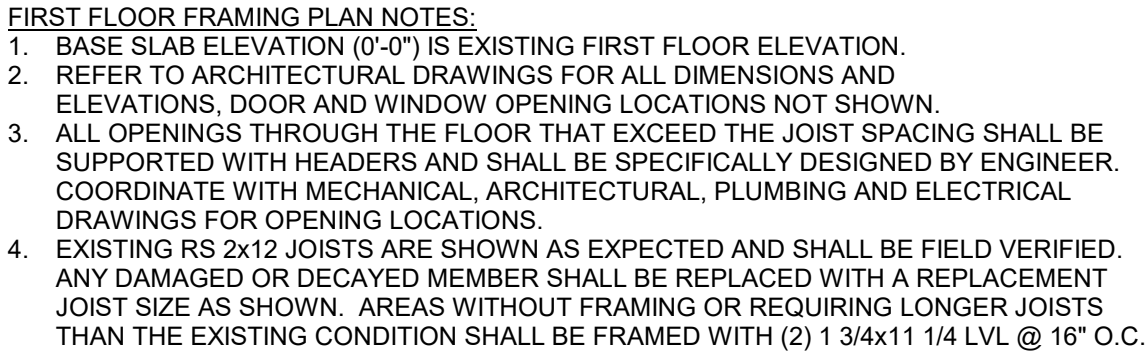
WALL FOUNDATION SCHEDULE		
TAG	FOOTING SIZE	REINFORCEMENT
W3.0	3'-0" x CONT. x 12" THICK.	(3) #5 CONT. & #5 @ 12" O.C., BOTTOM
W4.0	4'-0" x CONT. x 12" THICK.	(4) #5 CONT. & #5 @ 12" O.C., BOTTOM

COLUMN FOUNDATION SCHEDULE		
TAG	FOOTING SIZE	REINFORCEMENT
F2.5	2'-6" x 2'-6" x 12" THICK.	(3) #5 EW BOTTOM
F3.0	3'-0" x 3'-0" x 12" THICK.	(3) #5 EW BOTTOM
F4.0	4'-0" x 4'-0" x 12" THICK.	(5) #5 EW BOTTOM
F5.0	5'-0" x 5'-0" x 12" THICK.	(5) #5 EW BOTTOM
AF4.0	4'-0" x PER PLAN x 12" THICK.	(4) #5 LW BOTTOM / #5 @ 12" O.C., BOTTOM
F6.0x4.0	6'-0" x 4'-0" x 12" THICK.	(6) #5 SW / (4) #5 LW BOTTOM
EXF	EXISTING COLUMN FOUNDATION TO REMAIN - FIELD VERIFY	

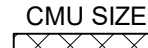
SLAB FOUNDATION SCHEDULE		
TAG	FOOTING SIZE	REINFORCEMENT
TS2.0	2'-0" x CONT. x 12" THICK.	BOT: (2) #5 CONT. U-BAR: #5 @ 12" O.C.

PLAN LEGEND	
---	FOUNDATION EXTENTS
[F#] [F#-IN]	INDICATES SHALLOW COLUMN FOUNDATION - SEE FOUNDATION SCHEDULE
[W#] [W#-IN]	INDICATES SHALLOW WALL STRIP FOUNDATION - SEE FOUNDATION SCHEDULE
±FT-IN TARGET	ELEVATION INDICATOR RELATIVE TO REFERENCE ELEV.
CMU SIZE [X X X X]	CMU WALL - SIZE AS MARKED ON PLANS
[Hatched Box]	EXISTING BRICK MASONRY WALL TO REMAIN
[Square]	HSS COLUMN - SIZE AS MARKED ON PLANS
[I]	EXISTING STEEL COLUMN w/ NEW CONC. ENCASEMENT
[Line]	COLD FORMED STEEL STUD WALL: INTERIOR PARTITION STUD WALLS SEE ARCH. DRAWINGS, TYP.

NOTE:
CONTRACTOR SHALL FIELD VERIFY ALL EXISTING DIMENSIONS, ELEVATIONS AND FIELD CONDITIONS PRIOR TO THE PREPARATION OF SHOP DRAWINGS, FABRICATION OF COMPONENTS, OR CONSTRUCTION. REPORT ANY DISCREPANCIES TO THE ENGINEER



PLAN LEGEND

	EXISTING BRICK MASONRY WALL TO REMAIN
	CMU WALL - SIZE AS MARKED ON PLANS
	EXISTING FLOOR JOIST TO REMAIN - FIELD VERIFY
	EXISTING BEAM/GIRDER TO REMAIN - FIELD VERIFY
	FLOOR JOIST - SIZE AS MARKED ON PLANS
	BEAM/GIRDER - SIZE AS MARKED ON PLANS
	HSS COLUMN - SIZE AS MARKED ON PLANS
	EXISTING STEEL COLUMN w/ NEW CONC. ENCASEMENT
	4" CONCRETE SLAB ON 1.5C22 NON. COMPOSITE DECK WITH 6X6-W2 9x2-9 WWF.
	COLD FORMED STEEL STUD WALL:
	INTERIOR PARTITION STUD WALLS SEE ARCH. DRAWINGS, TYP.

[illegible]

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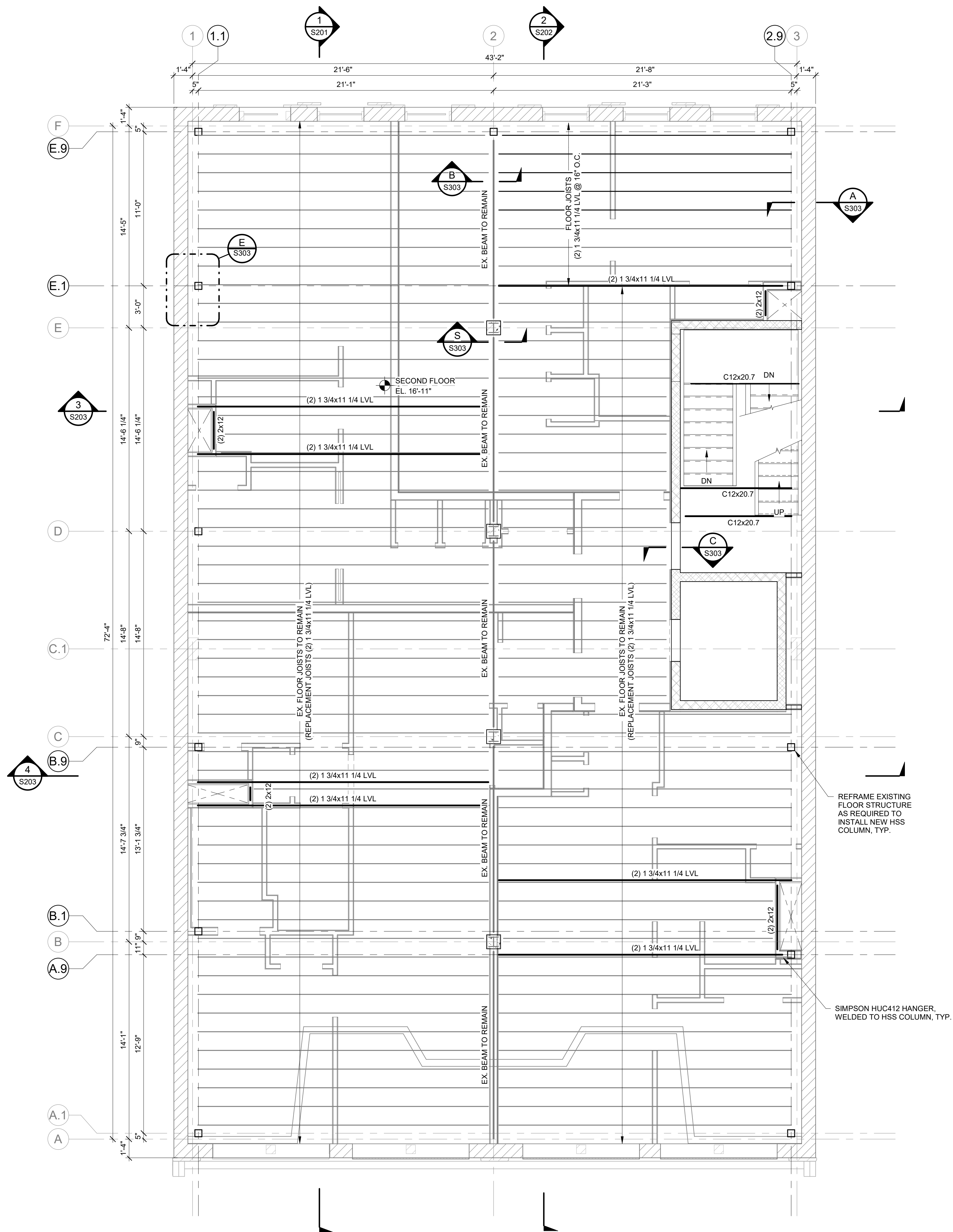
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SECOND FLOOR FRAMING PLAN

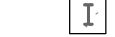
S103



SECOND FLOOR FRAMING PLAN NOTES:

1. BASE SLAB ELEVATION (0'-0") IS EXISTING FIRST FLOOR ELEVATION.
2. REFER TO ARCHITECTURAL DRAWINGS FOR ALL DIMENSIONS AND
3. DOOR AND WINDOW SIZES AND OPENING LOCATIONS.
4. ALL OPENINGS THROUGH THE FLOOR THAT EXCEED THE JOIST SPACING SHALL
5. BE SUPPORTED WITH HEADERS AND SHALL BE SPECIFICALLY DESIGNED BY ENGINEER
6. TO MAINTAIN THE STRENGTH AND CHARACTER OF THE ARCHITECTURAL, PLUMBING AND ELECTRICAL
7. DRAWINGS FOR OPENING LOCATIONS.
8. EXISTING RS 2x12 JOISTS ARE SHOWN AS EXPECTED AND SHALL BE FIELD VERIFIED
9. BY AN ENGINEER, A RECORD OF THE FIELD VERIFICATION SHALL BE SUBMITTED.
10. ALL JOIST SIZES SHALL BE AS SHOWN. AREAS WITHOUT FRAMING OR REQUIRING LONGER JOISTS
11. THAN THE EXISTING CONDITION SHALL BE FRAMED WITH (2) 1.34x11 1/4 LVL @ 16" O.C.

PLAN LEGEND

	EXISTING BRICK MASONRY WALL TO REMAIN
	CMU WALL - SIZE AS MARKED ON PLANS
	EXISTING FLOOR JOIST TO REMAIN - FIELD VERIFY
	EXISTING BEAM/GIRDER TO REMAIN - FIELD VERIFY
	FLOOR JOIST - SIZE AS MARKED ON PLANS
	BEAM/GIRDER - SIZE AS MARKED ON PLANS
	HSS COLUMN - SIZE AS MARKED ON PLANS
	EXISTING STEEL COLUMN w/ NEW CONC. ENCASUREMENT

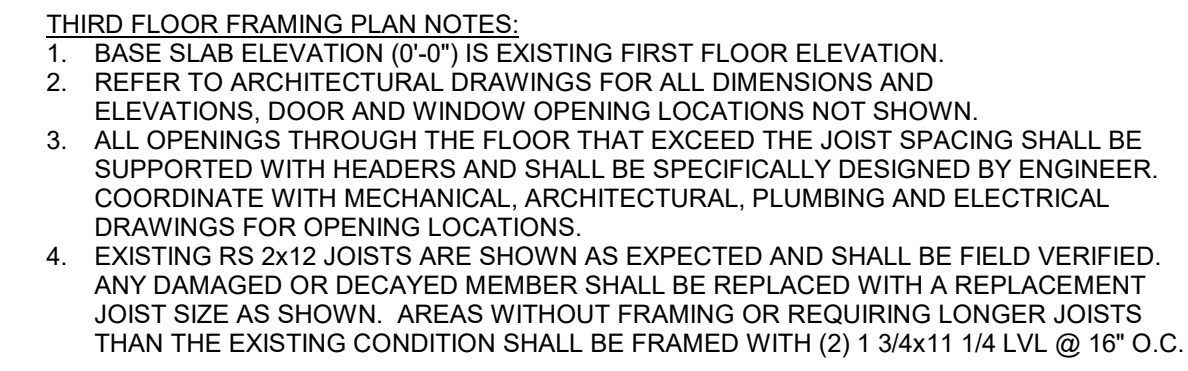
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THIRD FLOOR FRAMING PLAN

S104



PLAN LEGEND

	EXISTING BRICK MASONRY WALL TO REMAIN
	CMU WALL - SIZE AS MARKED ON PLANS
	EXISTING FLOOR JOIST TO REMAIN - FIELD VERIFY
	EXISTING BEAM/GRIDDER TO REMAIN - FIELD VERIFY
	FLOOR JOIST - SIZE AS MARKED ON PLANS
	HSS COLUMN - SIZE AS MARKED ON PLANS
	EXISTING STEEL COLUMN w/ NEW CONC. ENCASEMENT

— REFRAME EXISTING FLOOR STRUCTURE AS REQUIRED TO INSTALL NEW HSS COLUMN, TYP.

[illegible]

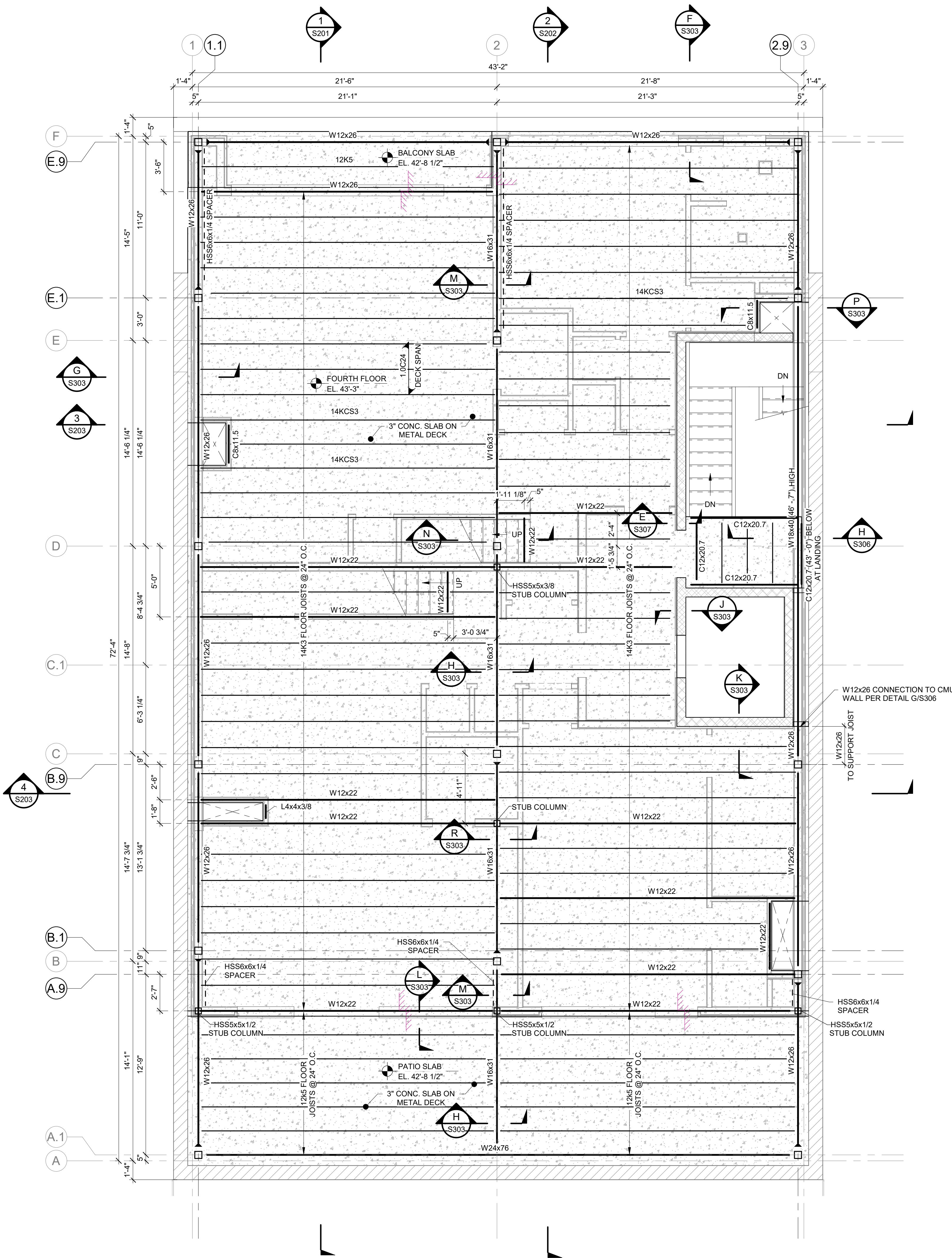
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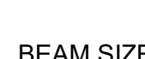
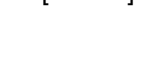
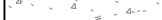
FOURTH FLOOR FRAMING PLAN

S105



FOURTH FLOOR FRAMING NOTES:

- 1. BASE SLAB ELEVATION (0'-0") IS EXISTING FIRST FLOOR ELEVATION. REFER TO ARCHITECTURAL DRAWINGS FOR ALL DIMENSIONS AND ELEVATIONS. DOOR AND WINDOW OPENINGS LOCATIONS NOT SHOWN.
- 2. FIRST FLOOR FINISH ELEVATION 0'-0".
- 3. STEEL BEAMS PARALLEL TO JOISTS ARE 0'-3" BELOW SLAB AND JOIST BEARING STEEL BEAMS ARE 0'-5 1/2" BELOW SLAB AND BALCONY STEP WITH HSS SPACER BEAMS.
- 4. MAXIMUM SPACING BETWEEN FLOOR JOISTS 24" O.C. (MAX), UNLESS NOTED OTHERWISE.
- 5. UNLESS NOTED OTHERWISE, ALL K-SERIES FLOOR JOIST DEPT SHALL BE 2 1/2".
- 6. PROVIDE STANDARD HORIZONTAL BRIDGING PER S.J.I.
- 7. ALL OPENING THROUGH THE FLOOR THAT EXCEED 8" DIAMETER OR 30 SQUARE INCHES SHALL HAVE THE DEPT OF THE JOIST MEMBERS, JOIST HEADERS, ETC. SEE DETAIL S305 FOR TYPICAL OPENING FRAME SUPPORT DETAILS.

PLAN LEGEND	
	EXISTING BRICK MASONRY WALL TO REMAIN
	CMU WALL - SIZE AS MARKED ON PLANS
	STEEL JOIST - SIZE AS MARKED PER PLANS
	BEAM/GIRDER - SIZE AS MARKED PER PLANS
	ELEVATION ANGLE/ANGLE RELATIVE TO REFERENCE ELEV.
	STEEL BEAM ELEVATION FROM REF. ELEV.
	STEEL MOMENT FRAME
	DECK SPAN INDICATOR
	HSS COLUMN - SIZE AS MARKED ON PLANS
	3" CONCRETE SLAB ON 1.0C24 NON-COMPOSITE DECK WITH 6x6-W2-1x2-1 WWF.
	COLD FORMED STEEL STUD WALL
	INTERIOR PARTITION STUD WALLS SEE ARCH. DRAWINGS, TYP.
	EXTERIOR INFILL STUD WALLS 600S162-43 @ 16" O.C., TYP.

1	FOURTH FLOOR FRAMING PLAN
$\frac{1}{4}'' = 1'-0''$	

#	DATE	DESCRIPTION
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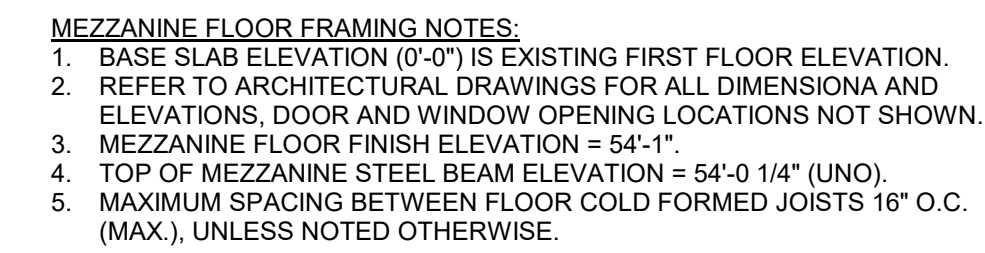
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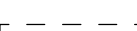
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MEZZANINE FLOOR FRAMING PLAN

S106



PLAN LEGEND

- | | |
|---|---|
|  | EXISTING BRICK MASONRY WALL TO REMAIN |
|  | CMU WALL BELOW |
|  | CF3 STEEL JOIST - SIZE AS MARKED PER PLANS |
|  | BEAM/GIRDER - SIZE AS MARKED PER PLANS |
|  - 5FT-IN TARGET | ELEVATION INDICATOR RELATIVE TO REFERENCE ELEV. |
|  | STEEL BEAM
ELEVATION FROM REF. ELEV. |
|  | STEEL MOMENT FRAME |
|  | HSS COLUMN - SIZE AS MARKED ON PLANS |
|  | COLD FORMED STEEL STUD WALL: |
| | INTERIOR PARTITION STUD WALLS
SEE ARCH. DRAWINGS, TYP. |
| | EXTERIOR INFILL STUD WALLS
6005162-43 @ 16" O.C. TYP. |

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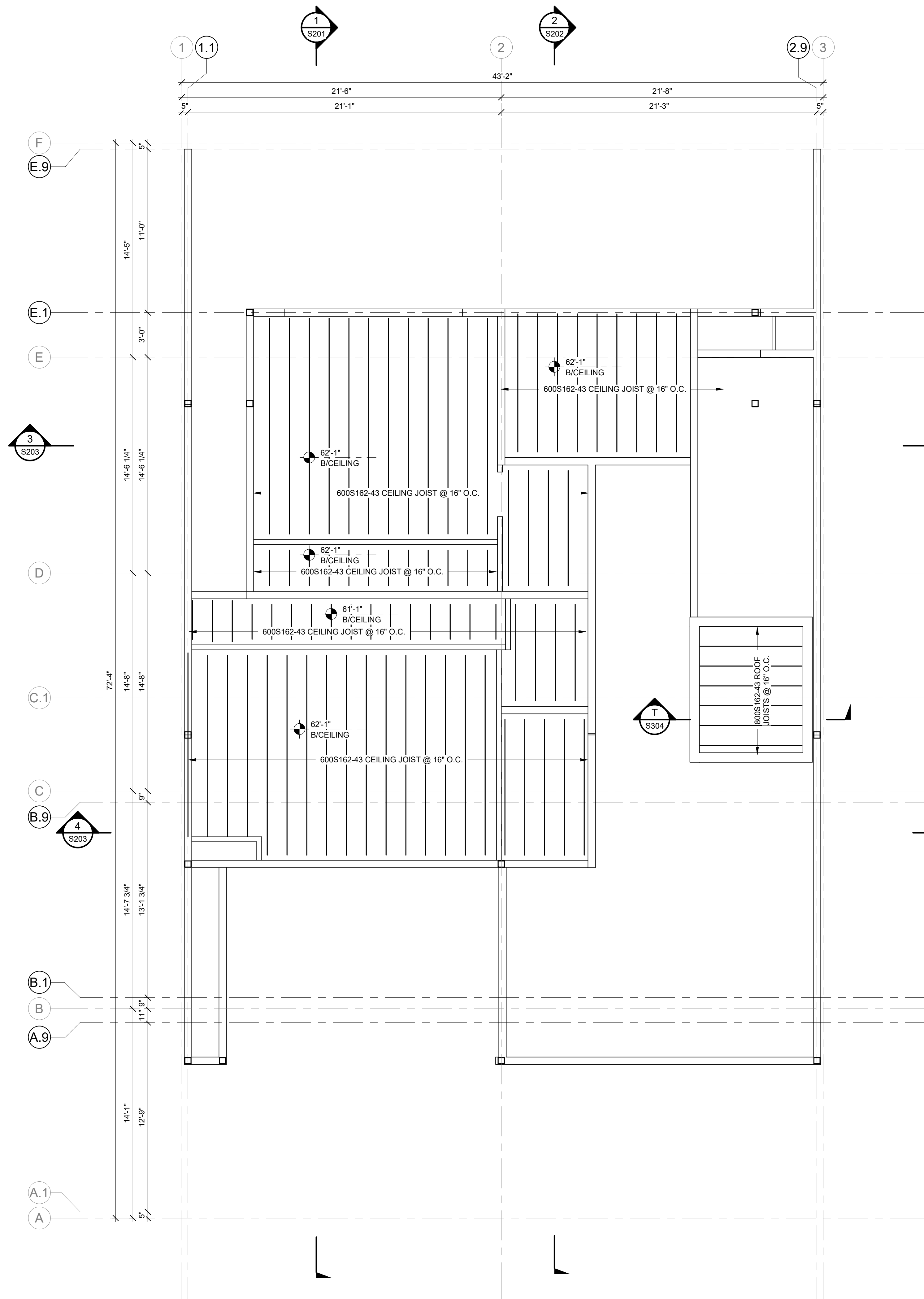
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SAVANNAH, GEORGIA

PROJECT NO.	22.295
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ROOF CEILING FRAMING
PLAN

S106A



MEZZANINE CEILING FRAMING NOTES:
1. BASE SLAB ELEVATION (0'-0") IS EXISTING FIRST FLOOR ELEVATION.
2. REFER TO ARCHITECTURAL DRAWINGS FOR ALL DIMENSIONA AND ELEVATIONS, DOOR AND WINDOW OPENING LOCATIONS NOT SHOWN.

PLAN LEGEND	
	COLD FORMED STEEL STUD WALLS BELOW
	STEEL JOIST - SIZE AS MARKED PER PLANS
	BEAM/GIRDER - SIZE AS MARKED PER PLANS
	HSS COLUMN - SIZE AS MARKED ON OTHER PLANS

[illegible]

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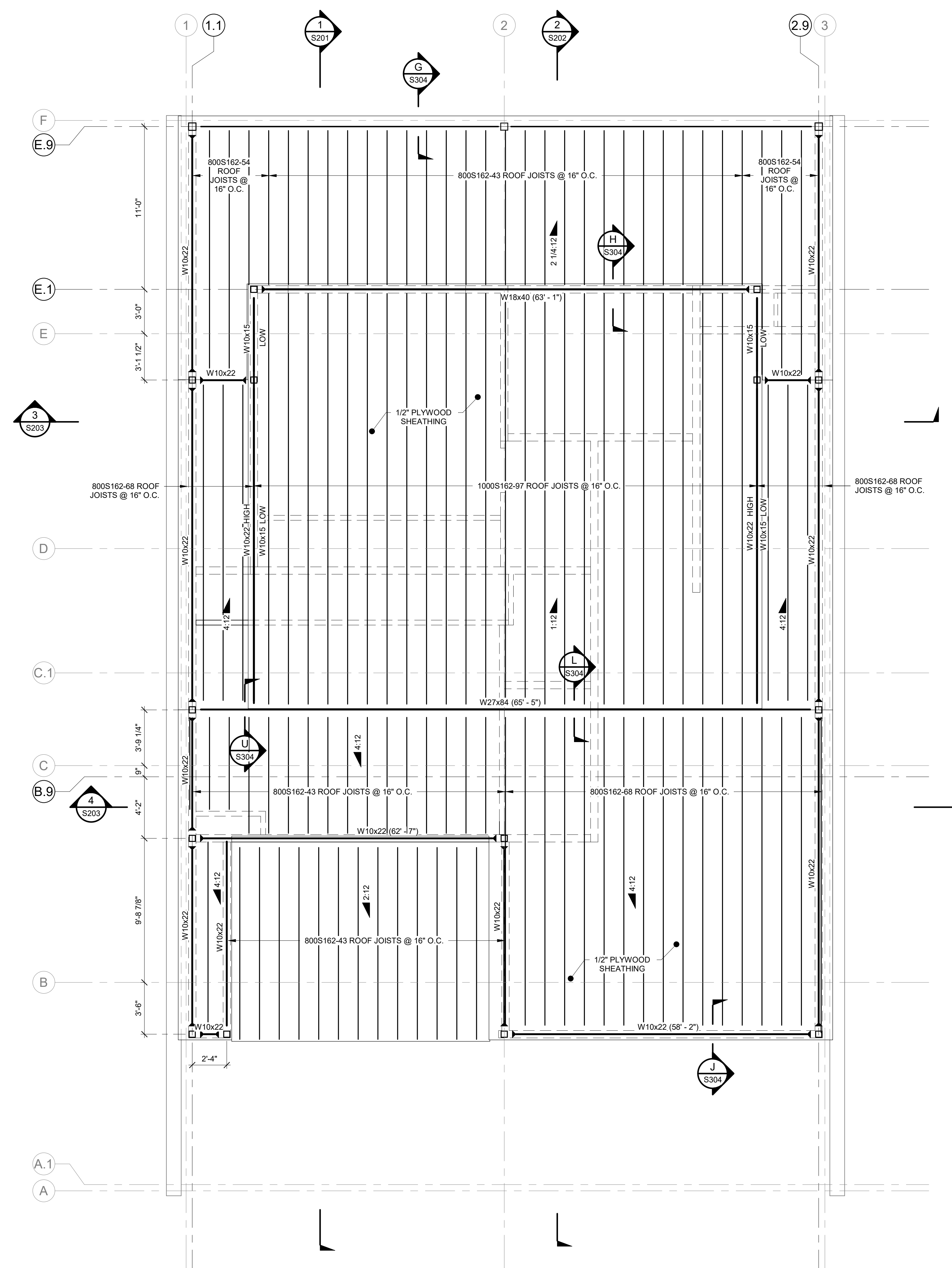
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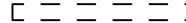
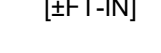
ROOF FRAMING PLAN

S107



ROOF FRAMING PLAN NOTES:

1. BASE SLAB ELEVATION (0'-0") IS EXISTING FIRST FLOOR ELEVATION.
2. REFER TO ARCHITECTURAL DRAWINGS FOR ALL DIMENSIONS AND ELEVATIONS, DOOR AND WINDOW OPENING LOCATIONS NOT SHOWN.

PLAN LEGEND	
	COLD FORMED STEEL STUD WALLS BELOW
	STEEL JOIST - SIZE AS MARKED PER PLANS
	BEAM/GIRDER - SIZE AS MARKED PER PLANS
	STEEL BEAM ELEVATION FROM REF. ELEV.
	STEEL MOMENT FRAME
	HSS COLUMN - SIZE AS MARKED ON PLANS
	FRAMING SLOPE MARKER SIDE: RUN

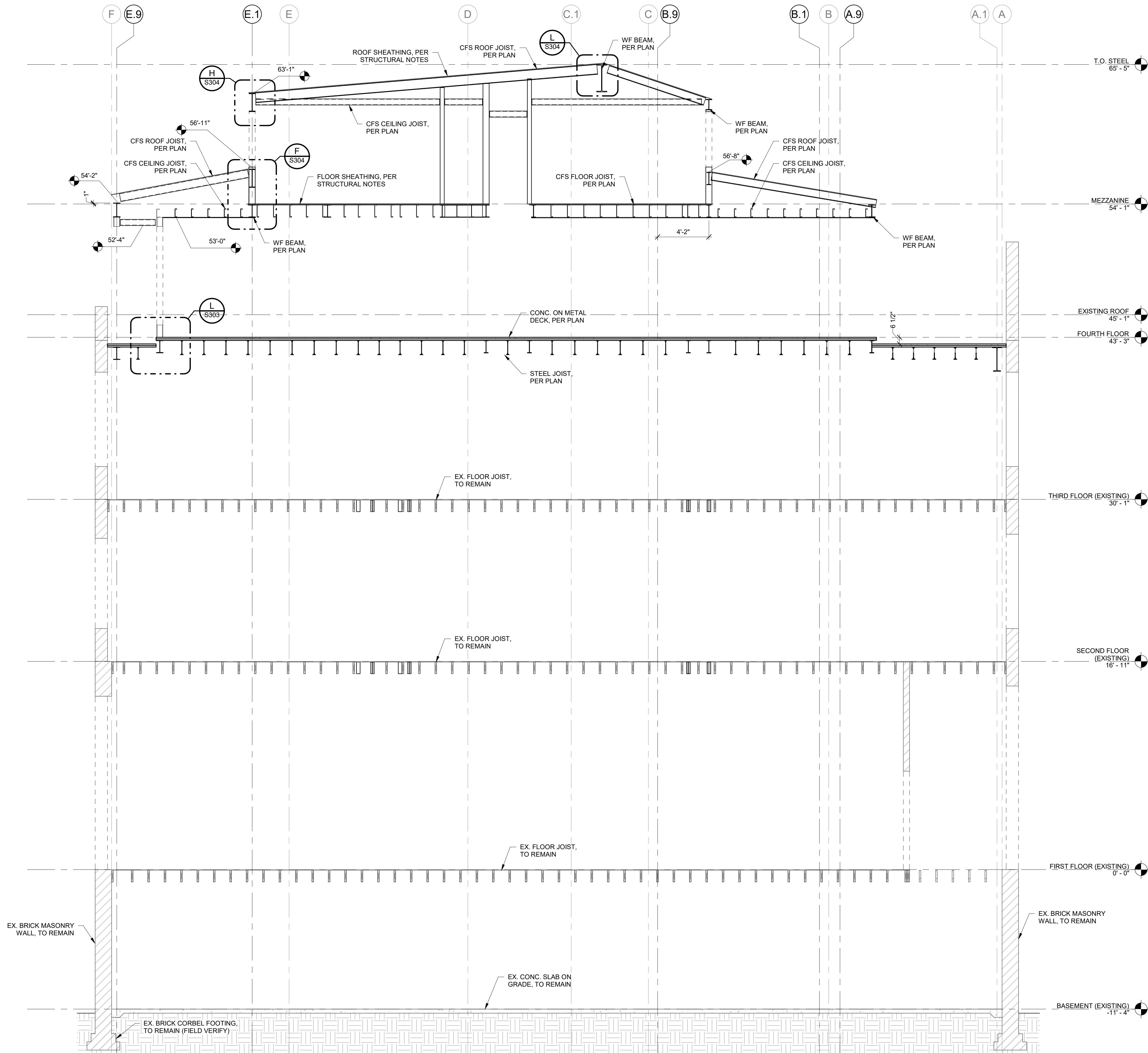
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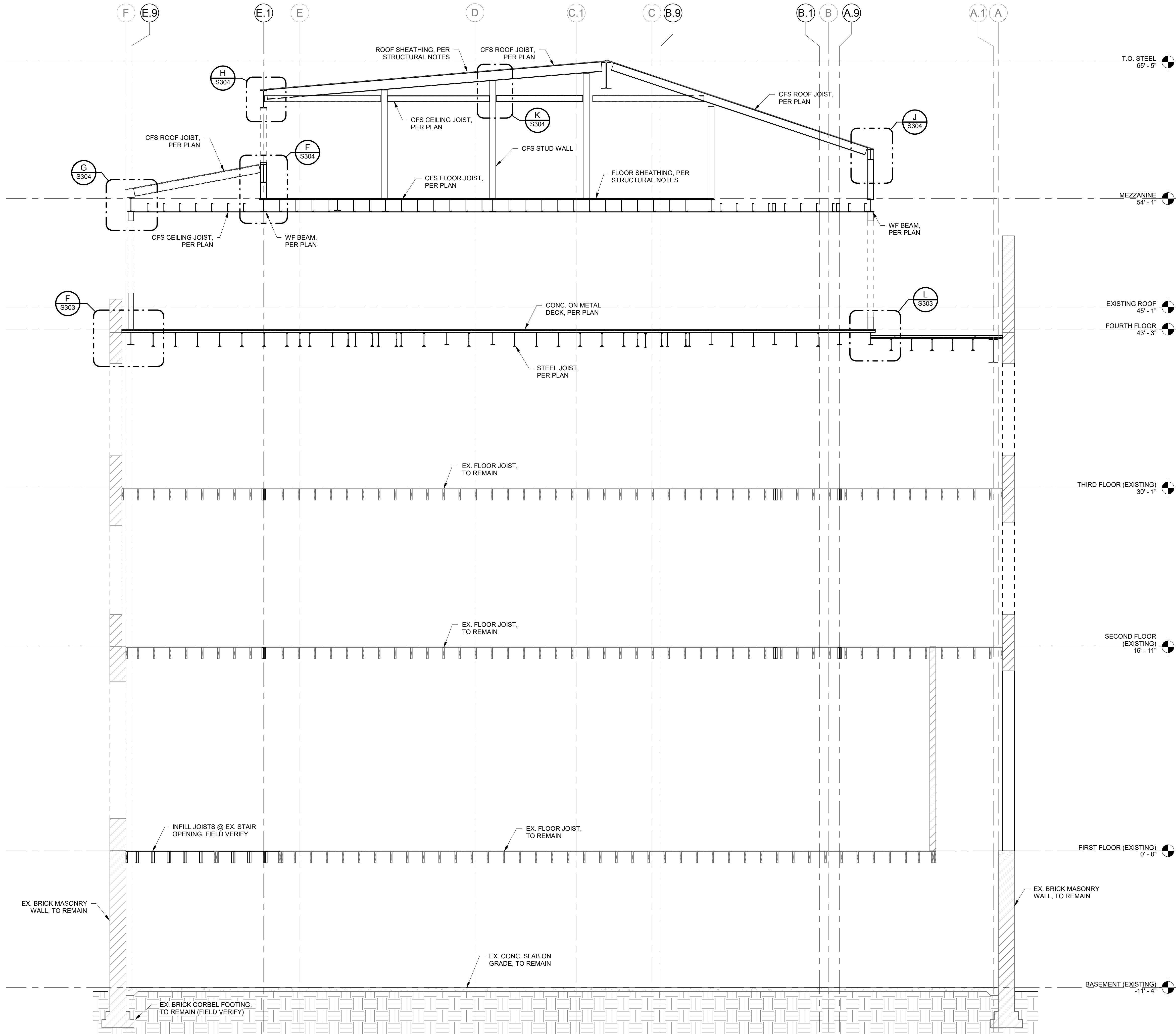
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STRUCTURAL SECTIONS

S202



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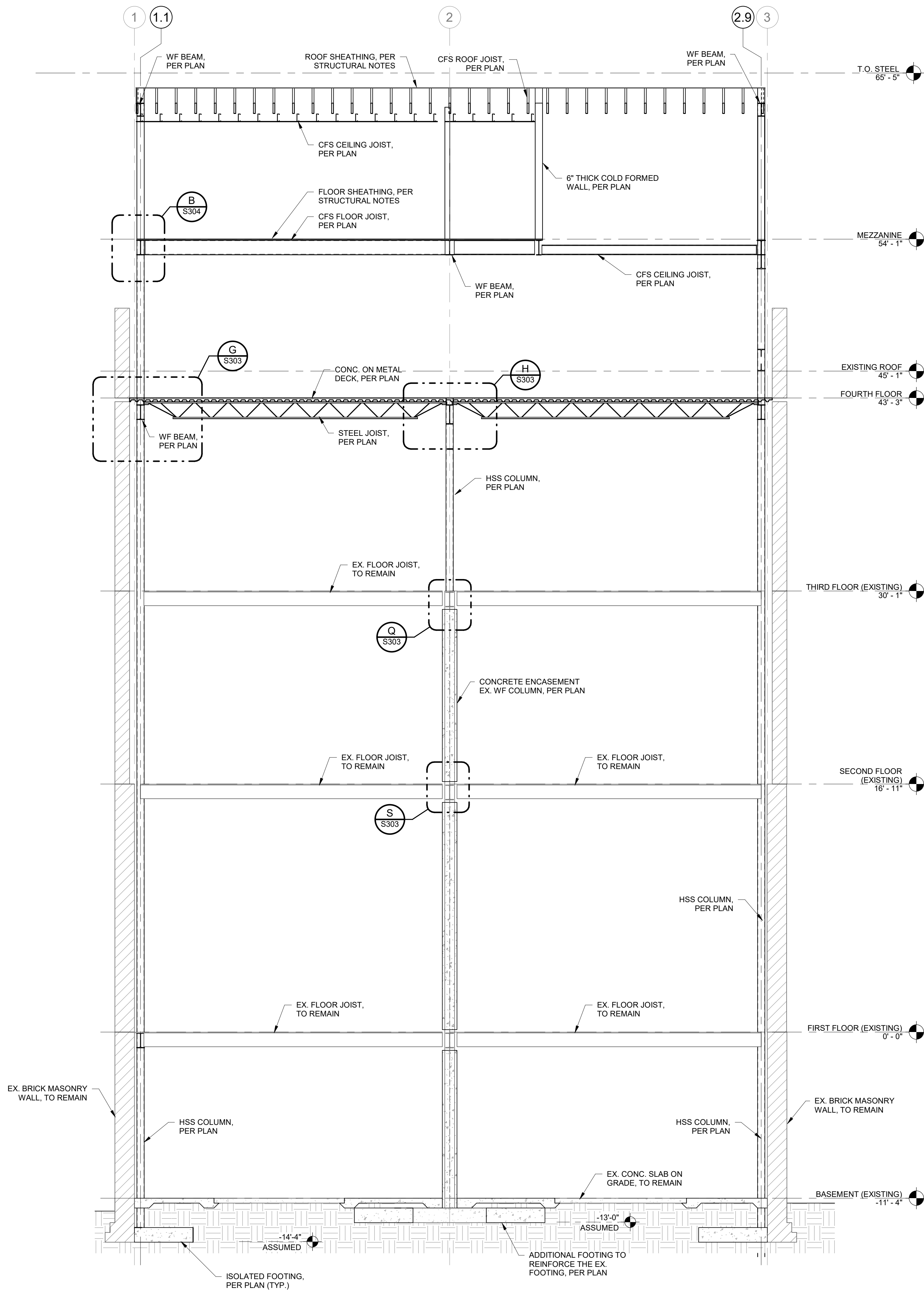
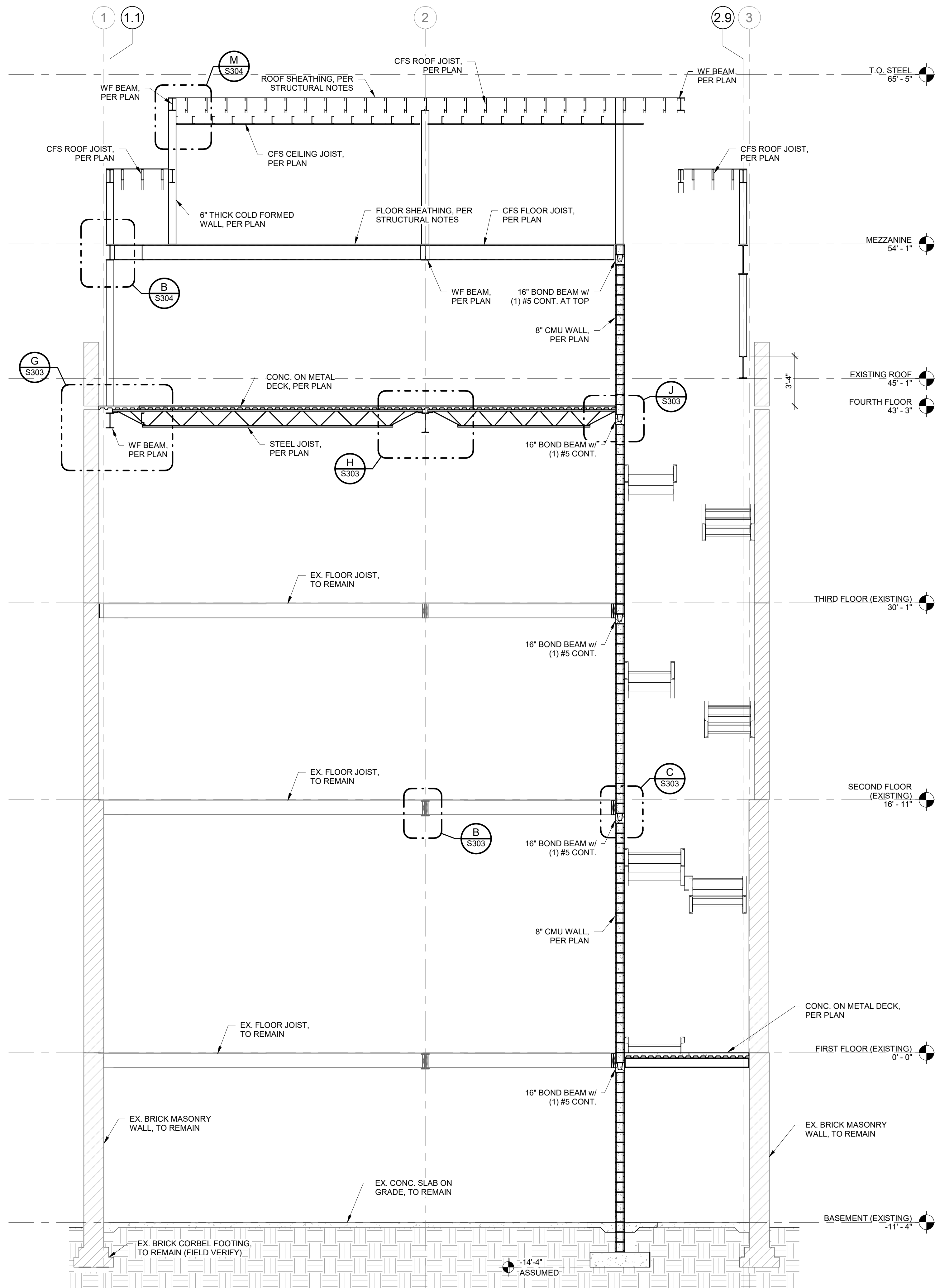
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STRUCTURAL SECTIONS

S203

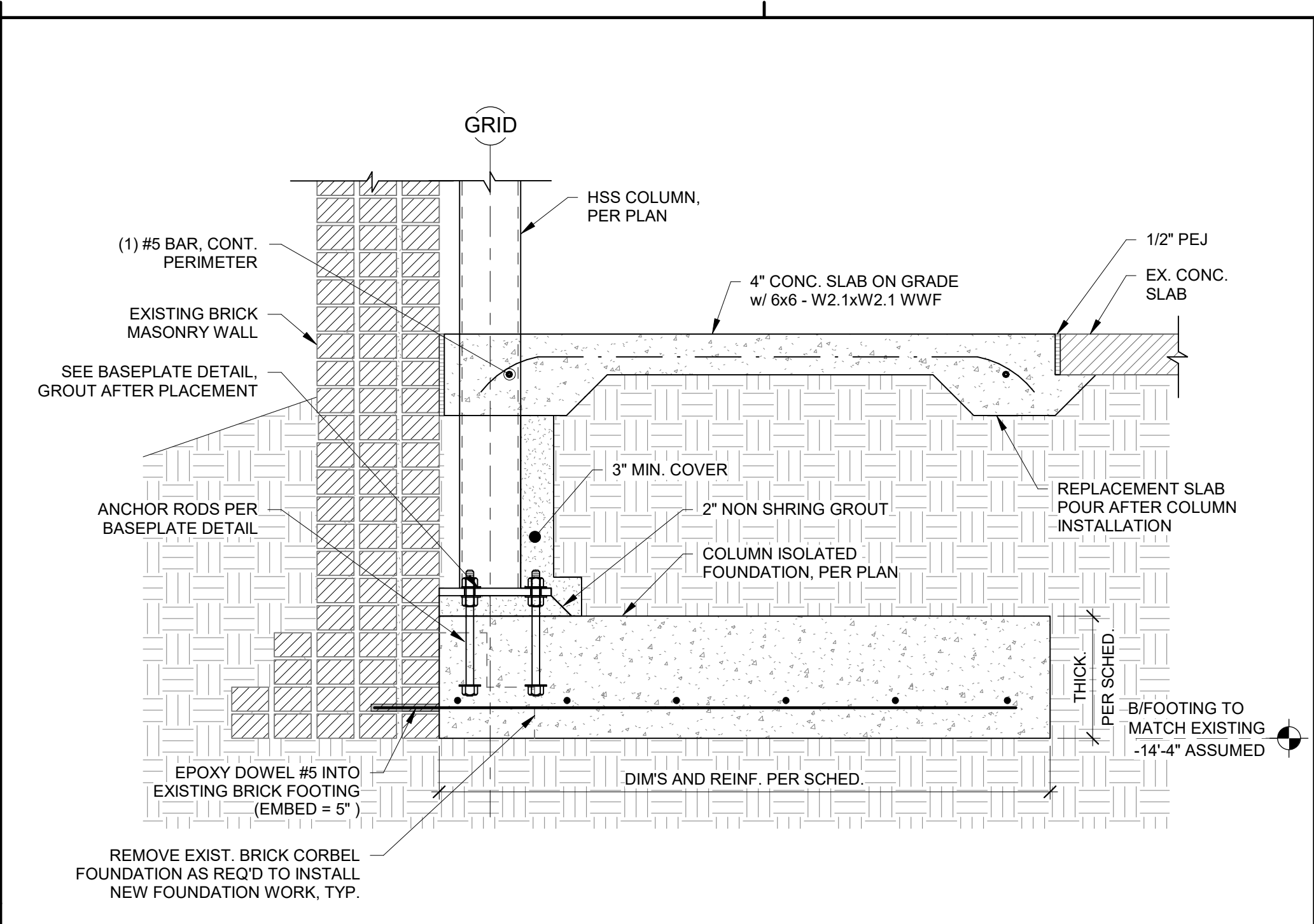


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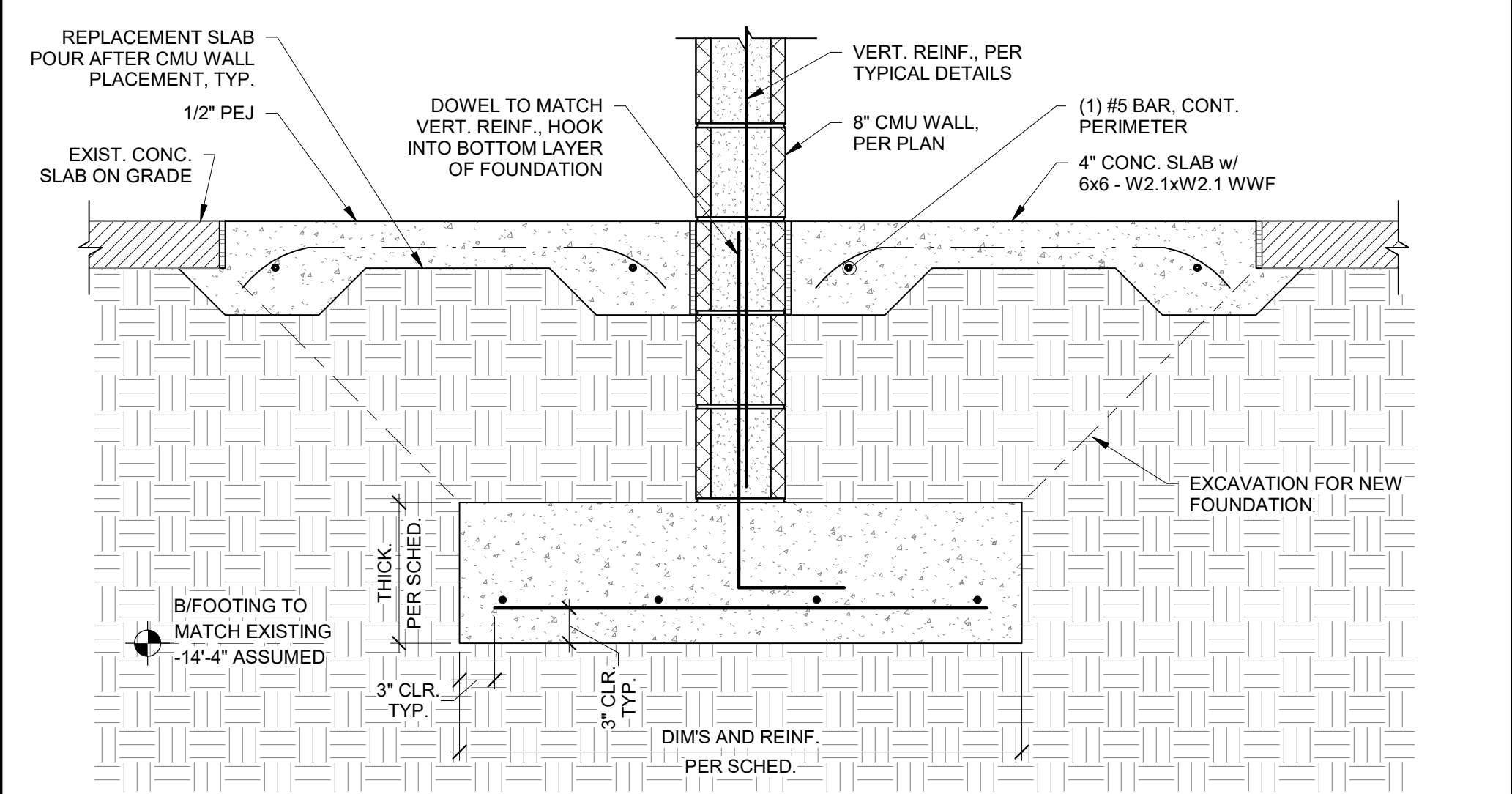
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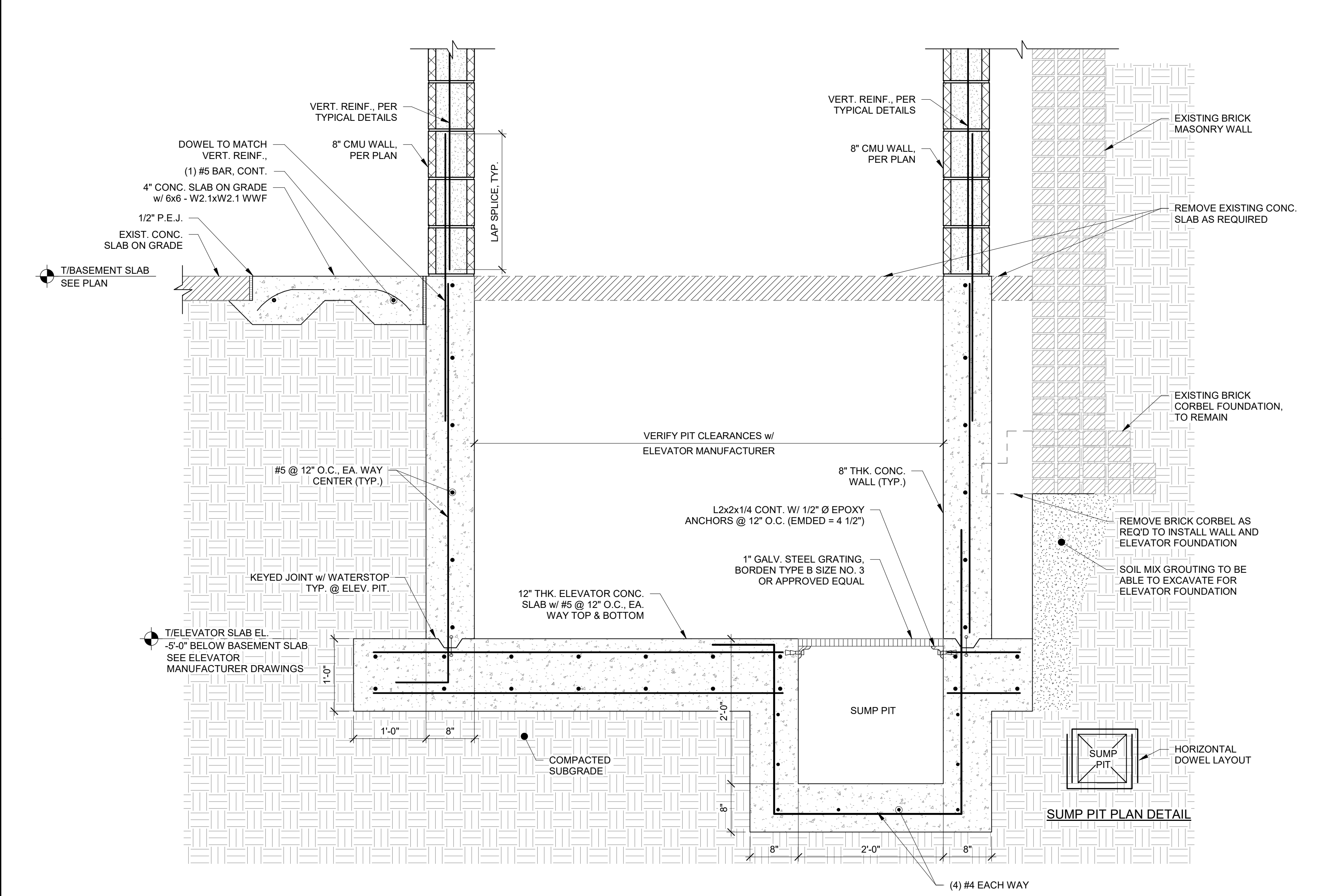
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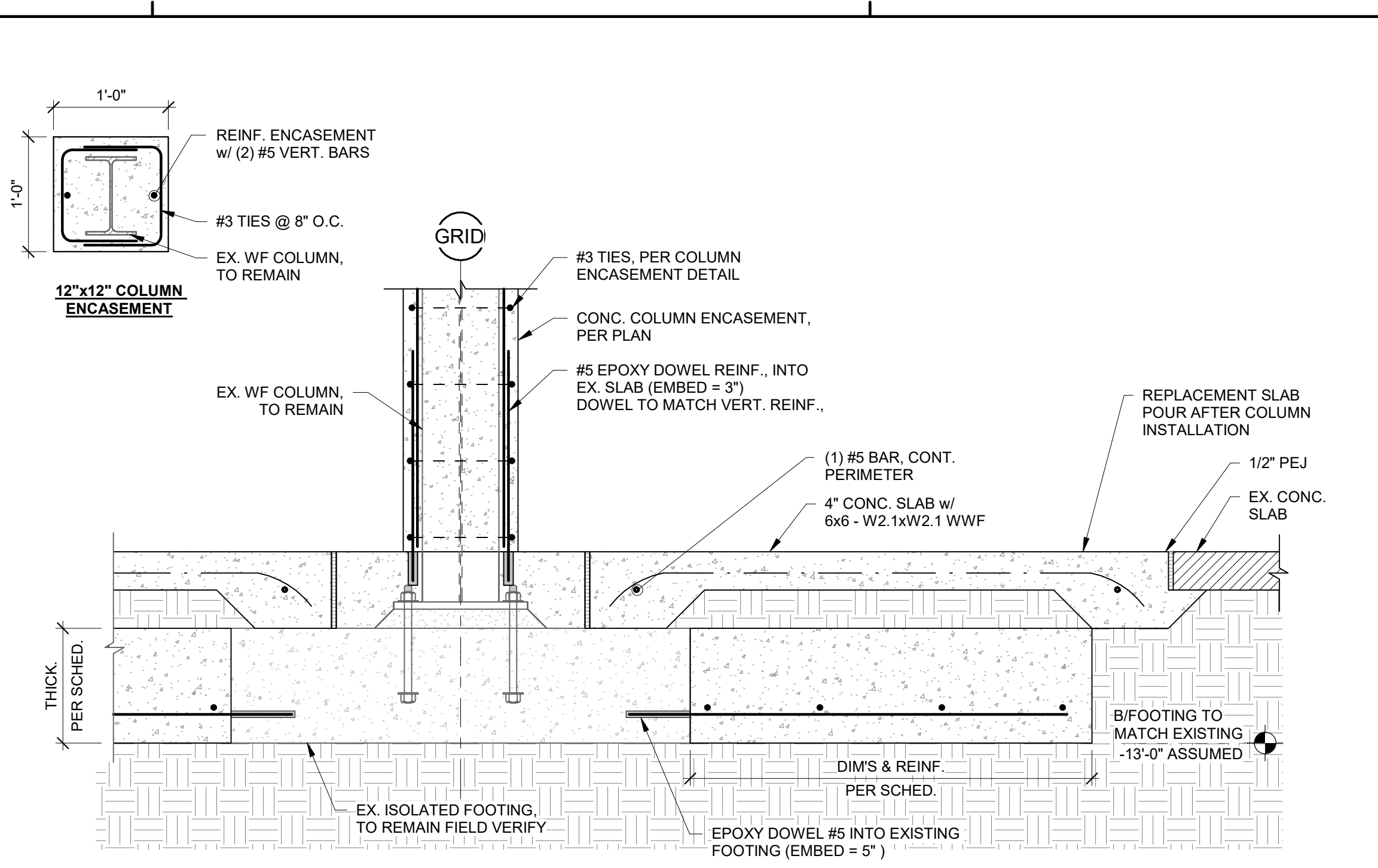
A COLUMN FOOTING AT EXTERIOR
1" = 1'-0"



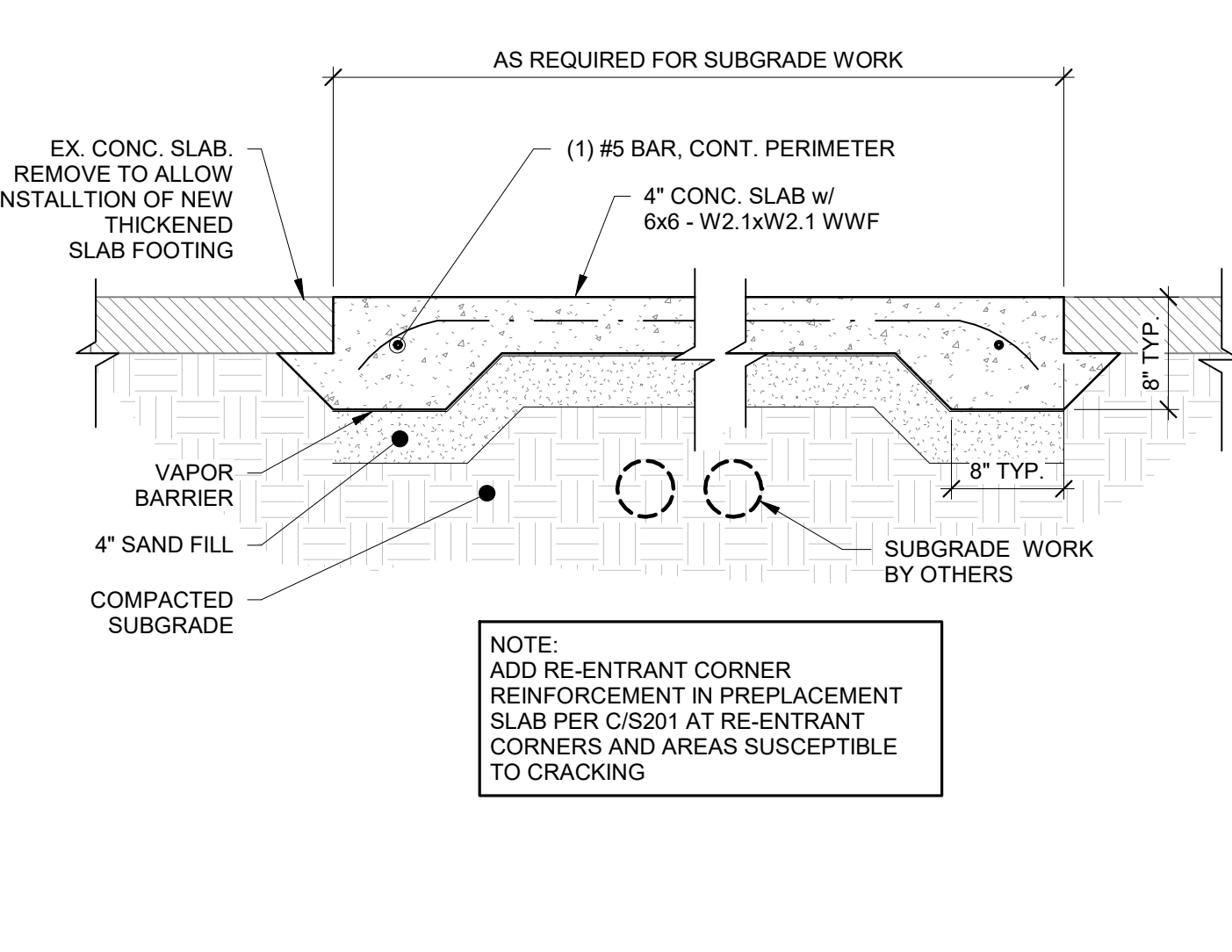
E CMU WALL FOUNDATION DETAIL
1" = 1'-0"



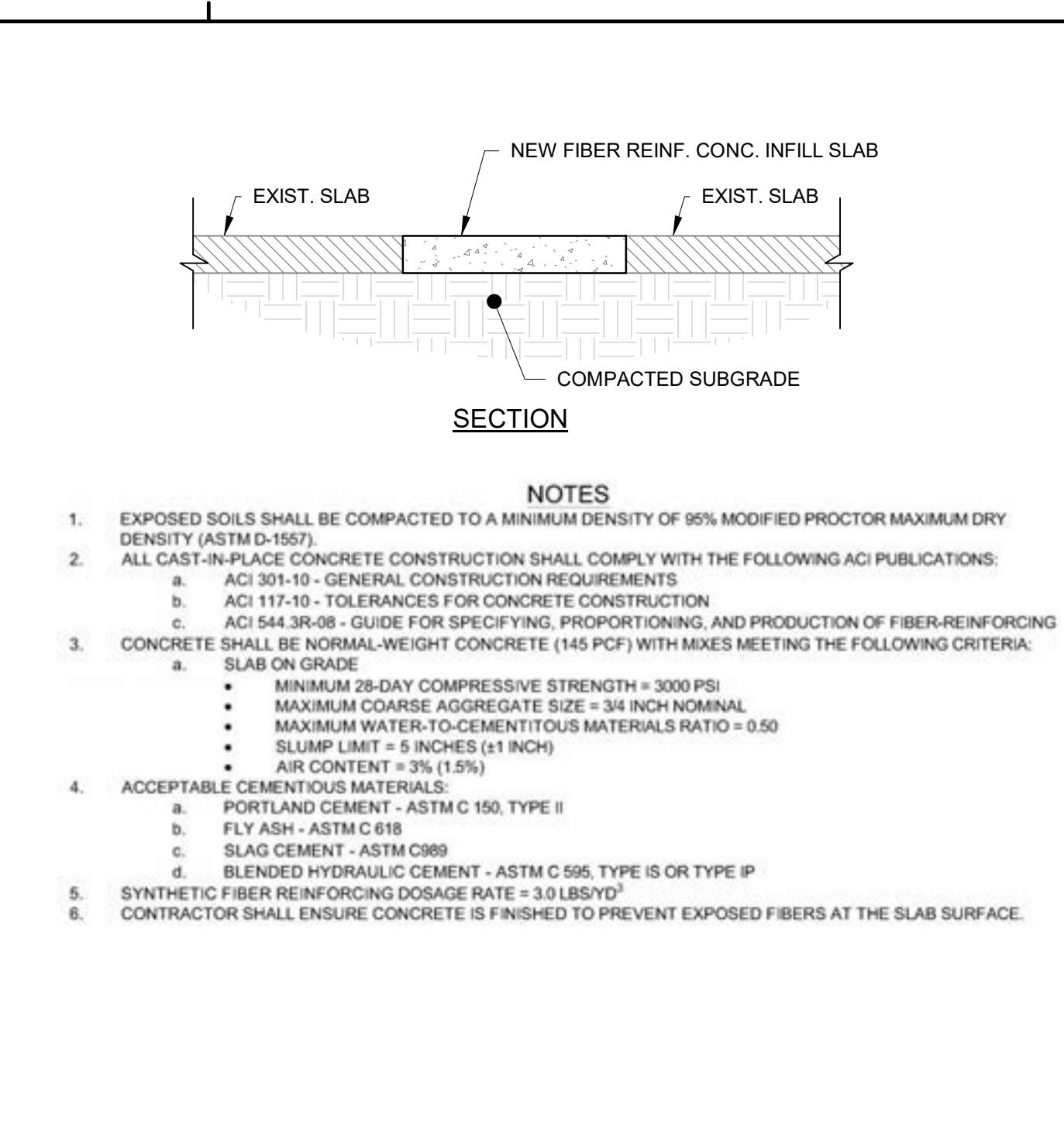
J ELEVATOR PIT
1" = 1'-0"



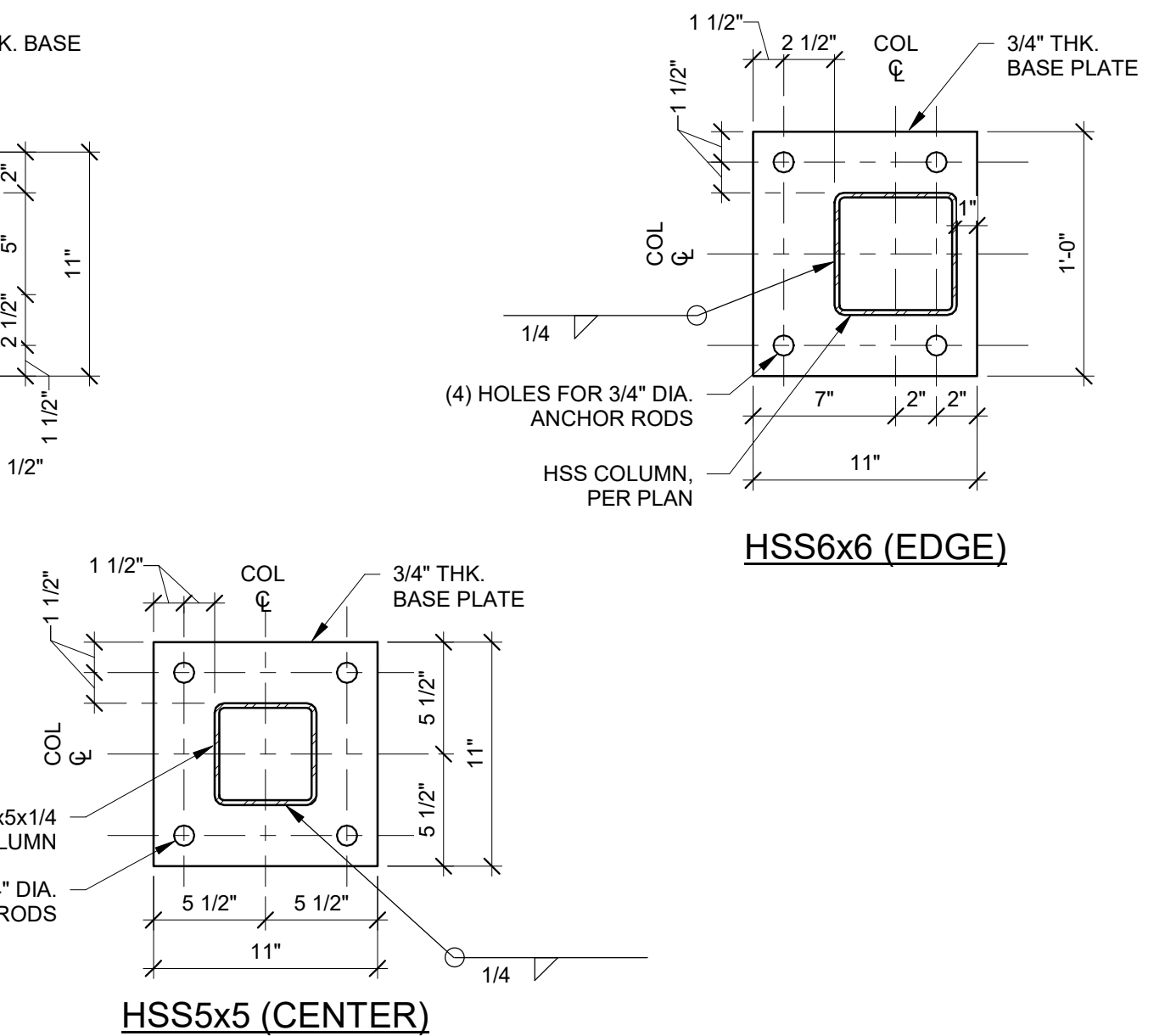
B INTERIOR EXISTING STEEL COLUMN FOOTINGS
1" = 1'-0"



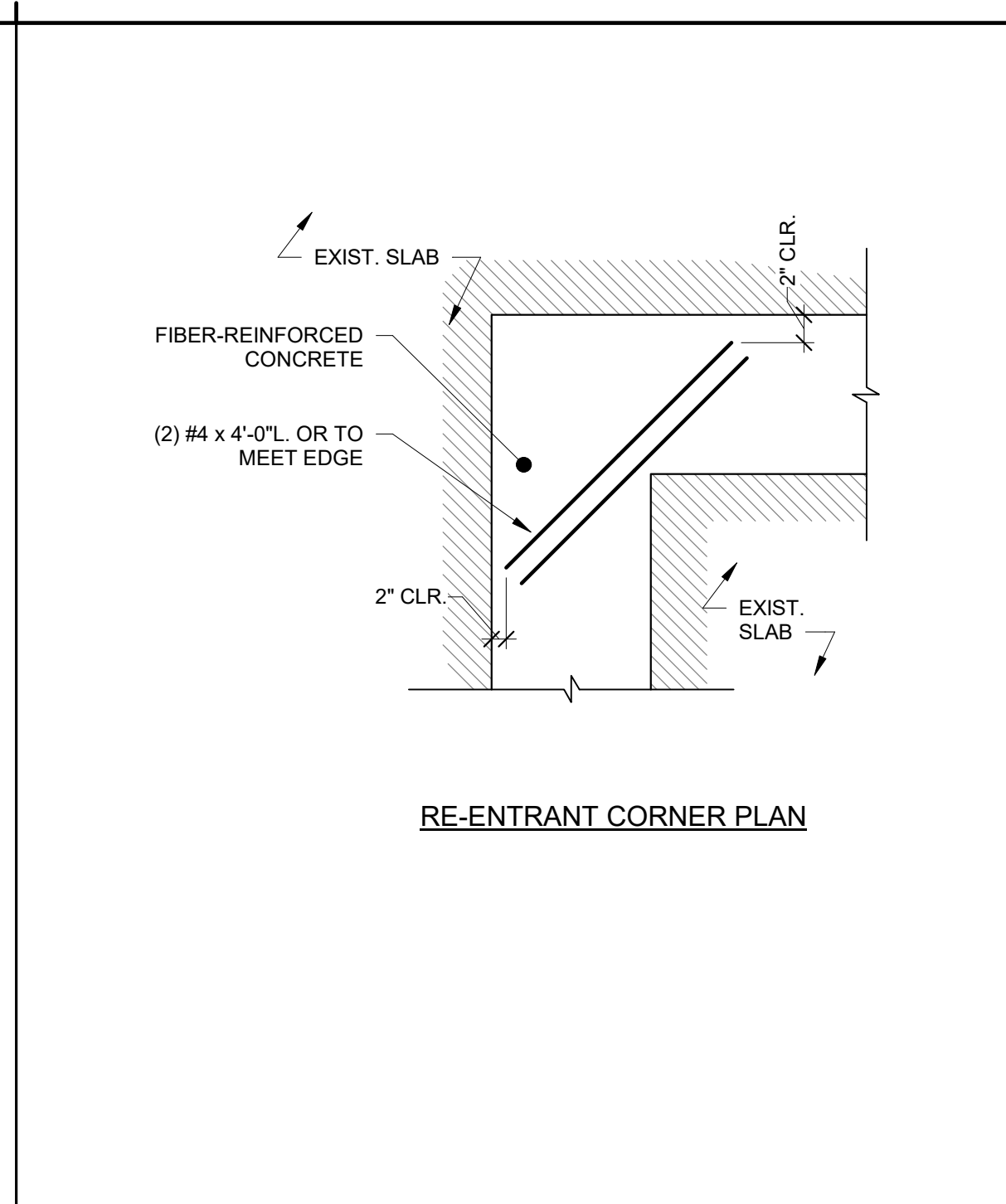
F LARGER AREA CONCRETE SLAB ON GRADE REPLACEMENT
1" = 1'-0"



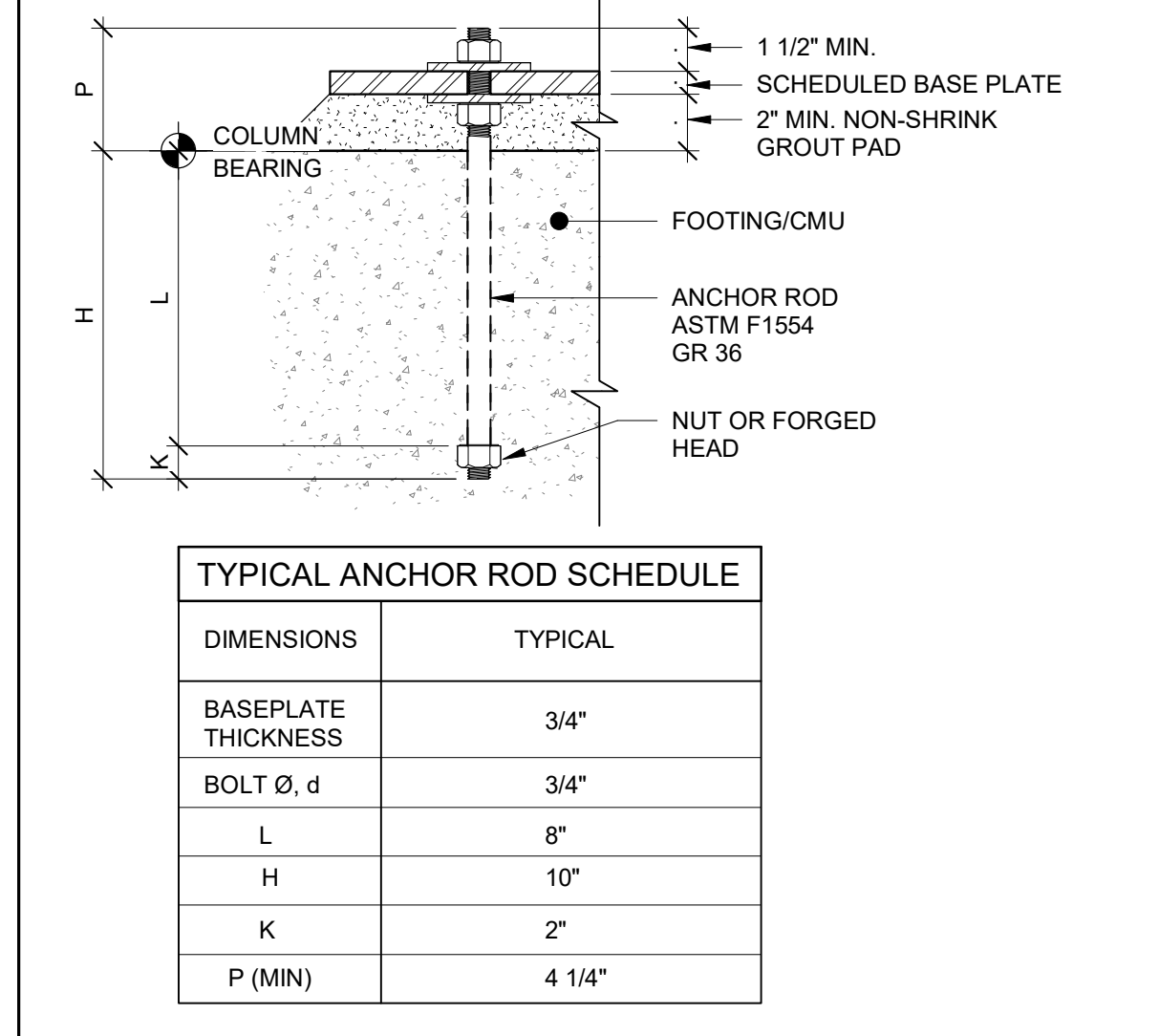
C SMALLER AREA CONCRETE REPLACEMENT
3/4" = 1'-0"



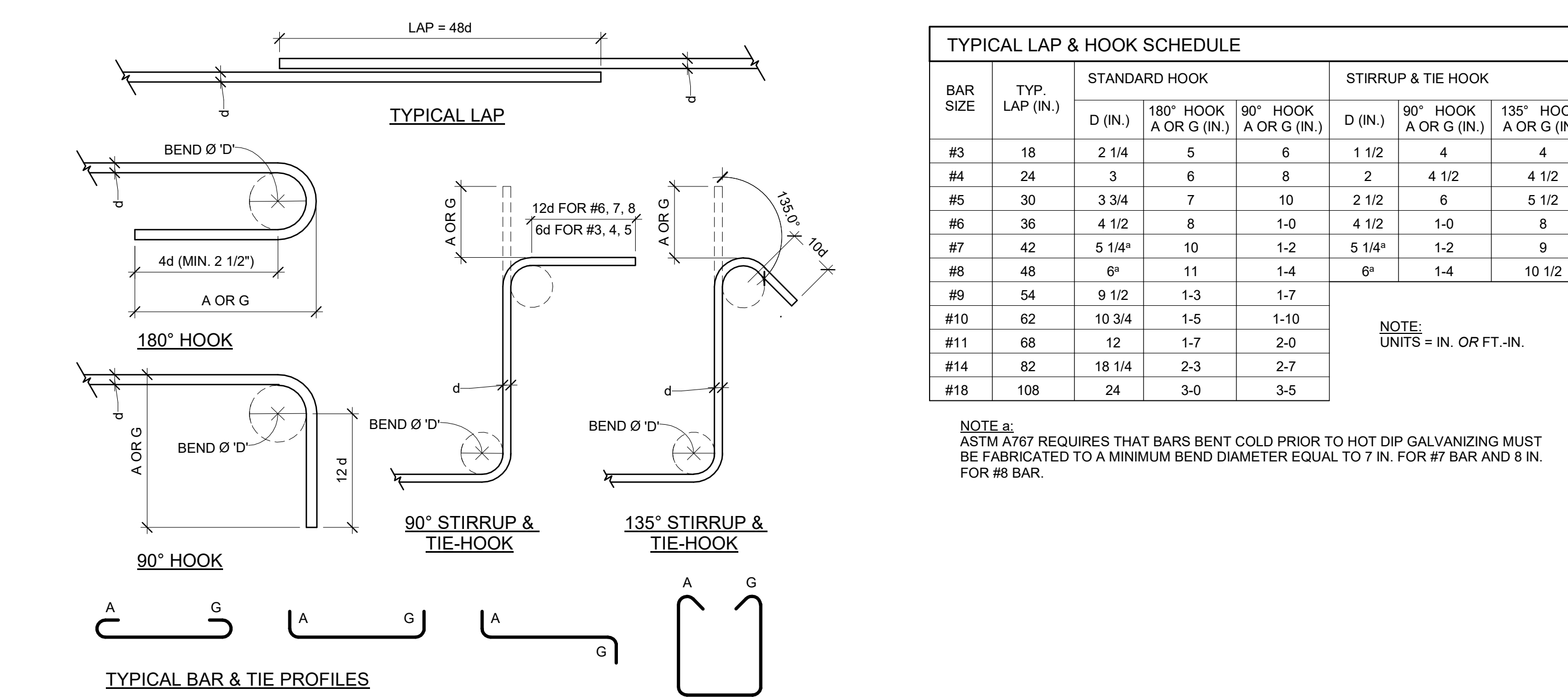
G BASEPLATE DETAILS
1 1/2" = 1'-0"



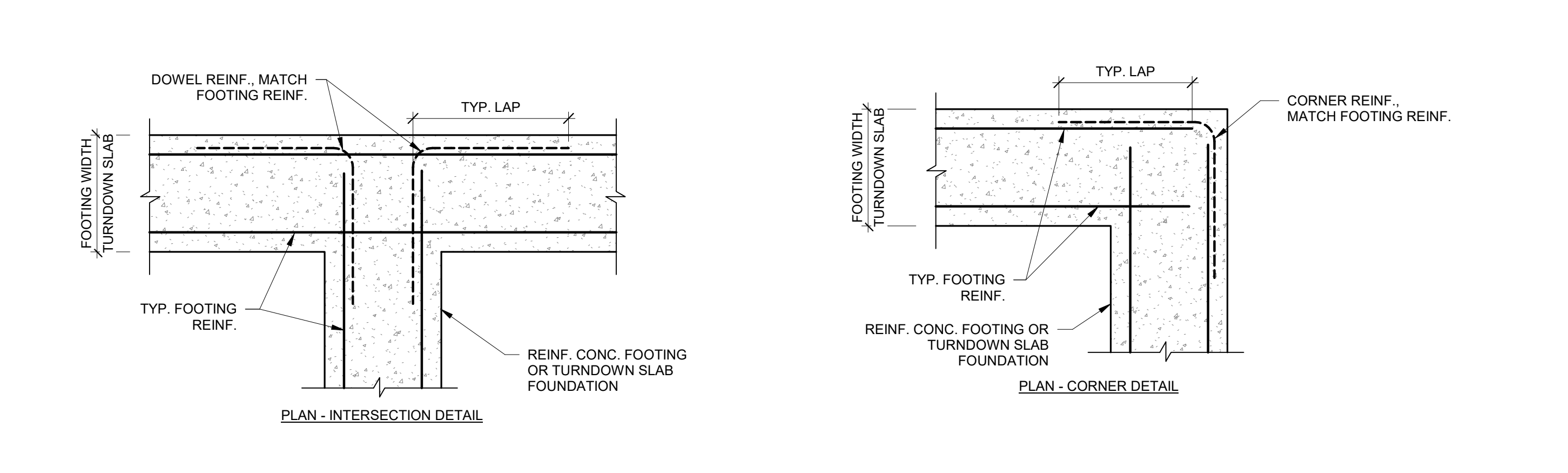
D RE-ENTRANT CORNER REINFORCING - SLAB ON GRADE REPLACEMENT
1/2" = 1'-0"



H TYPICAL ANCHOR ROD DETAIL
3" = 1'-0"



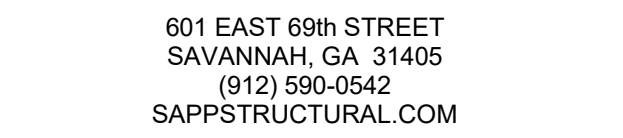
K REINFORCING LAP AND HOOK LENGTHS
1" = 1'-0"



L FOUNDATION INTERSECTIONS
3/4" = 1'-0"

SAVANNAH, GEORGIA
PROJECT NO. 22.295
DATE 03/29/24
DRAWN BY SRS
CHECKED BY BKS
STRUCTURAL DETAILS

S301

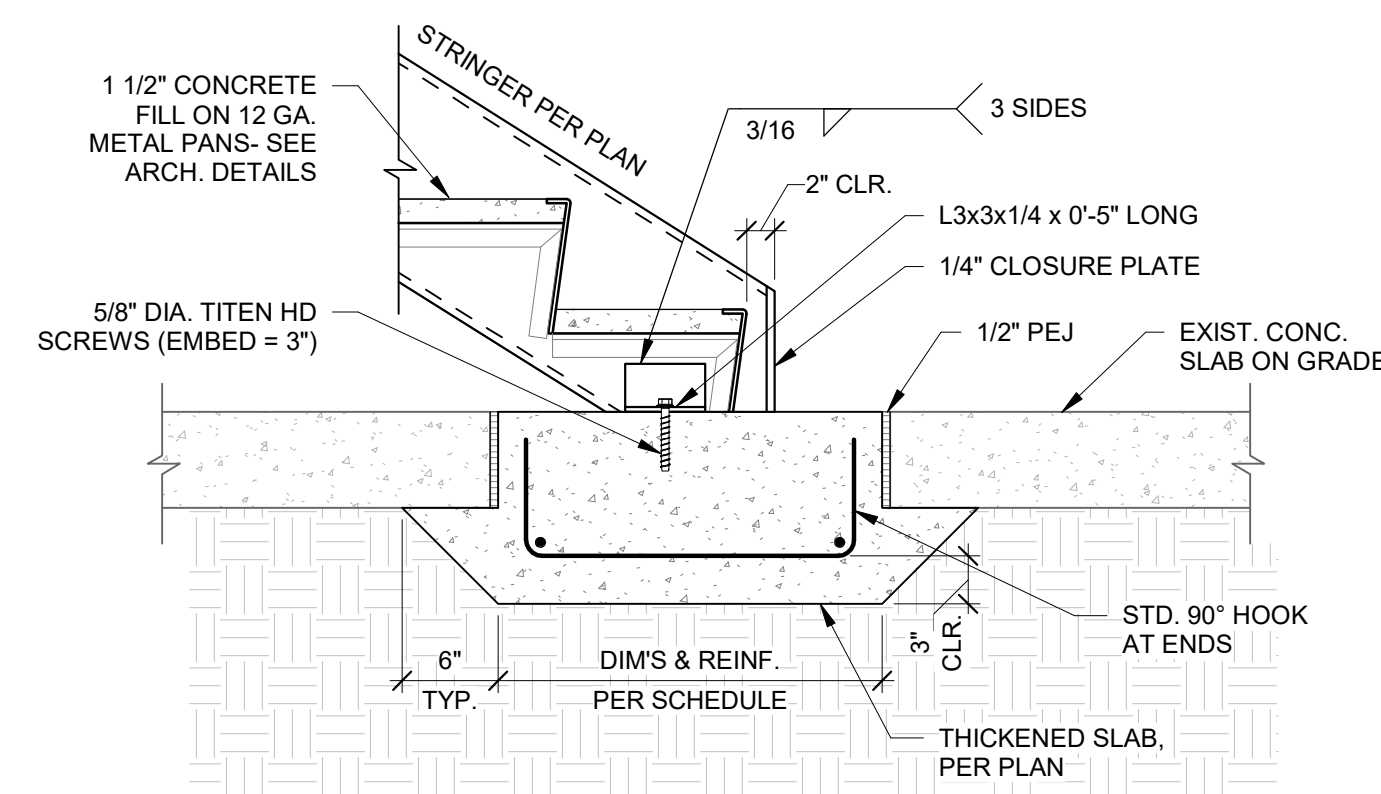
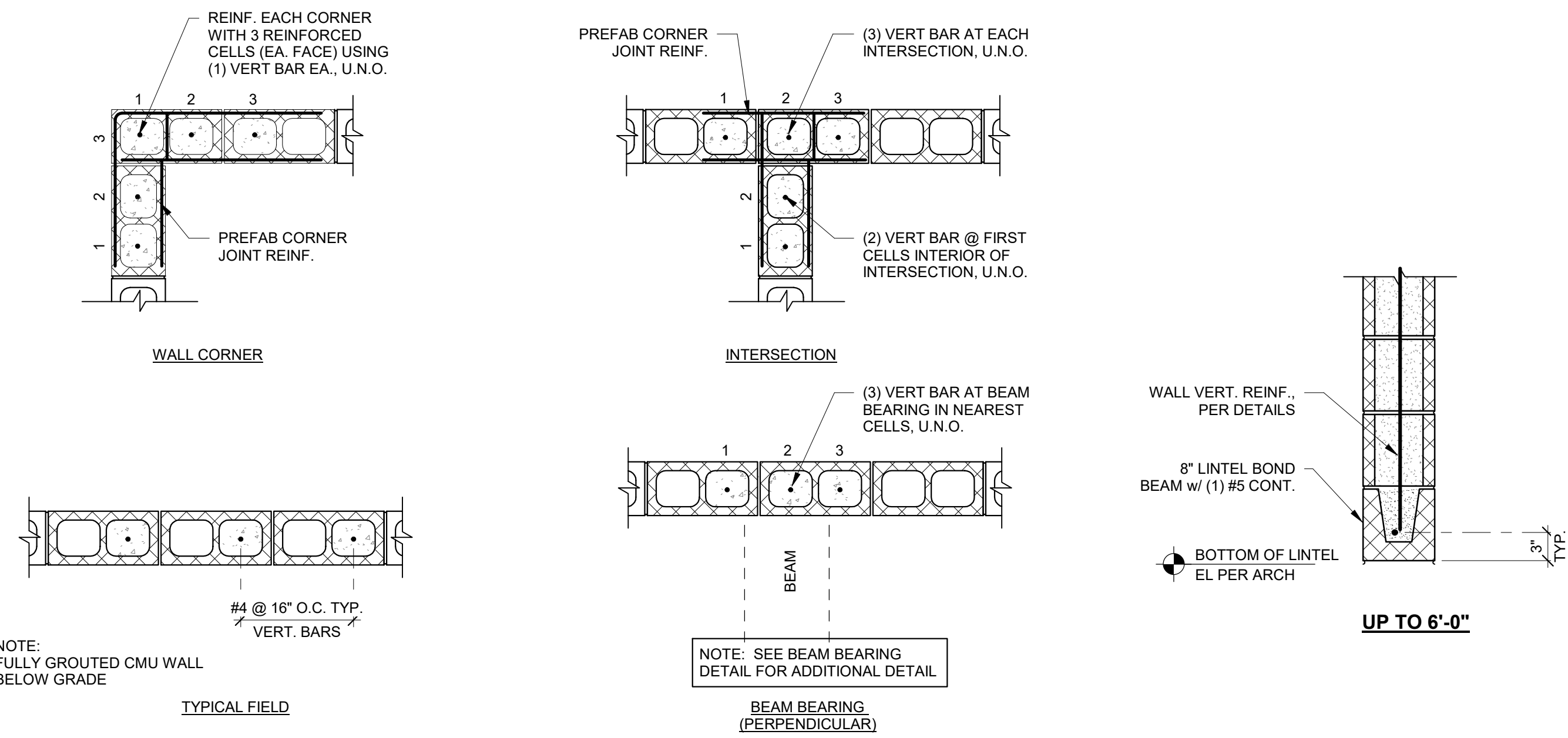


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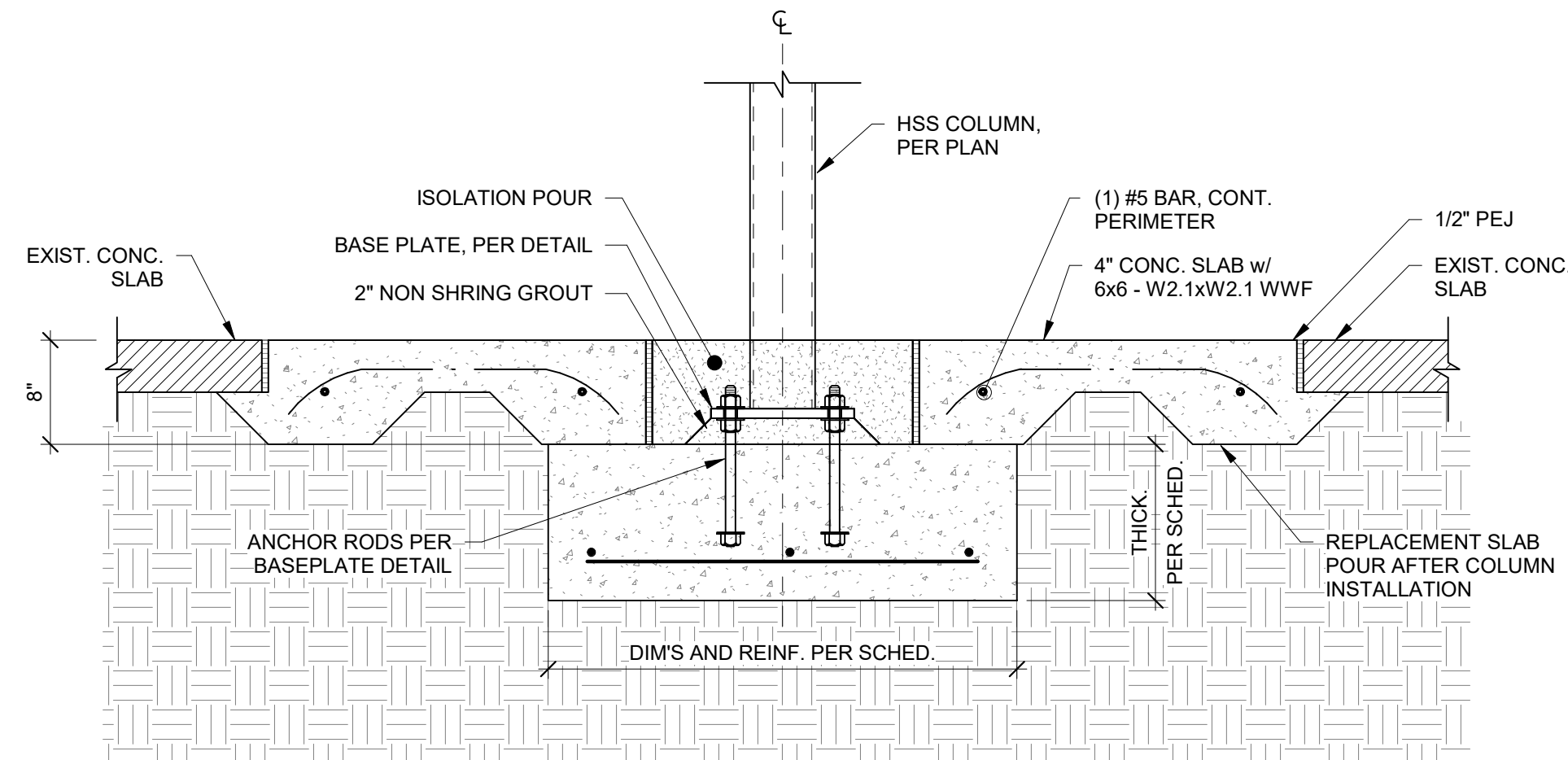
PROJECT NO.	22.295
DATE	03/29/24
DRAWN BY	SRS
CHECKED BY	BKS

S302

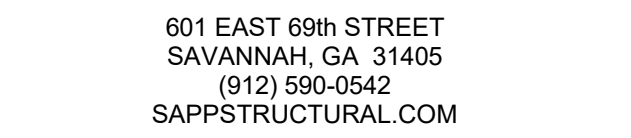


B	TYPICAL CMU WALL REINFORCEMENT AND LINTEL DETAILS
3/4" = 1'-0"	

C	STAIR STRINGER TO SLAB DETAIL
1" = 1'-0"	



E	INTERIOR STEEL COLUMN FOOTINGS
1" = 1'-0"	

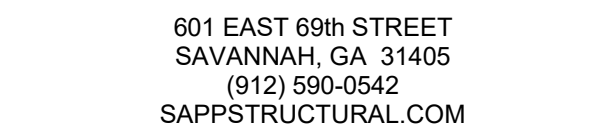


#	DATE	DESCRIPTION
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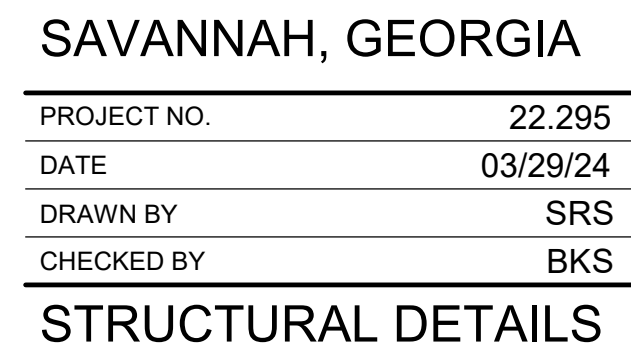
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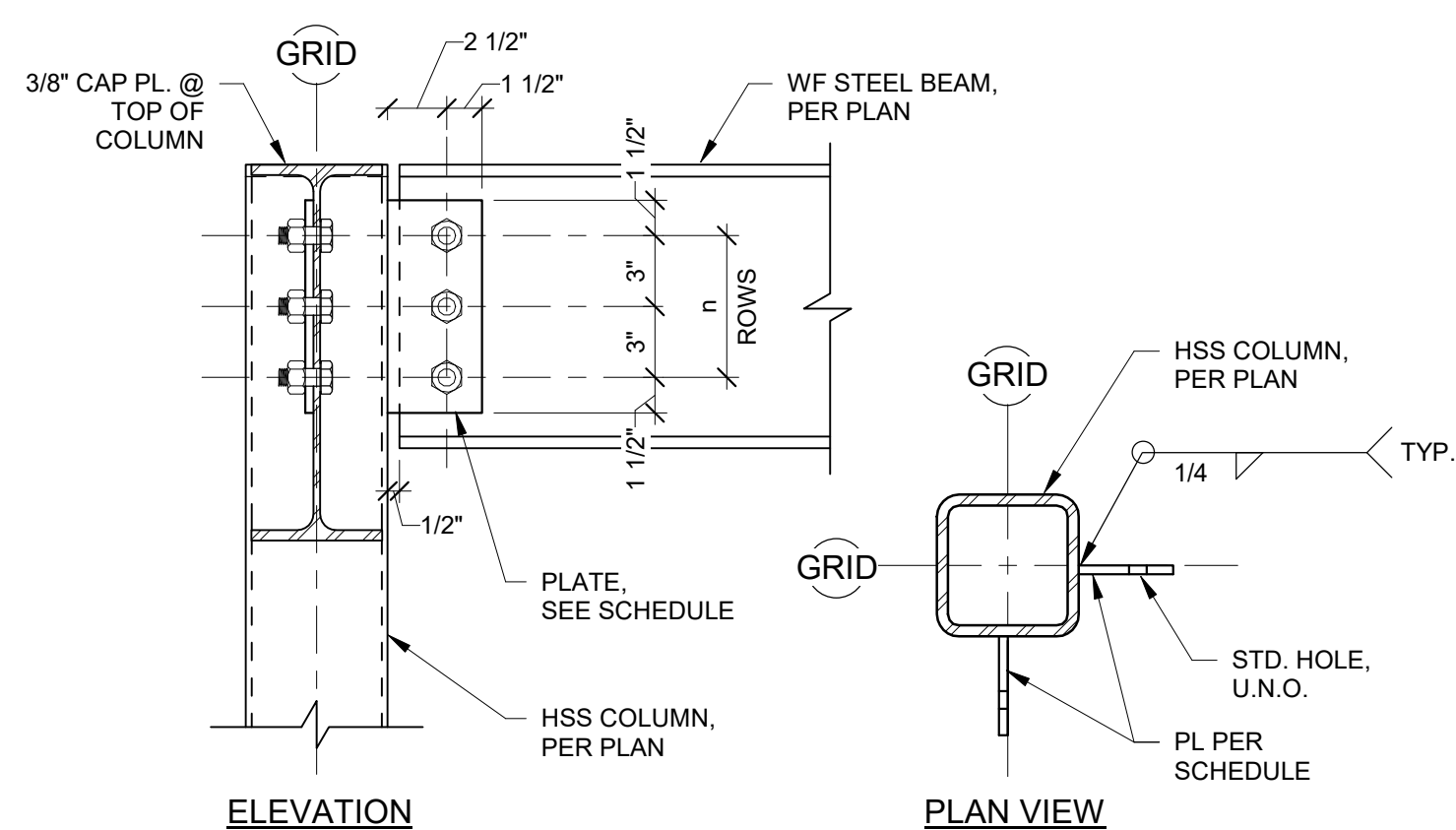
S304

REVISIONS		
#	DATE	DESCRIPTION

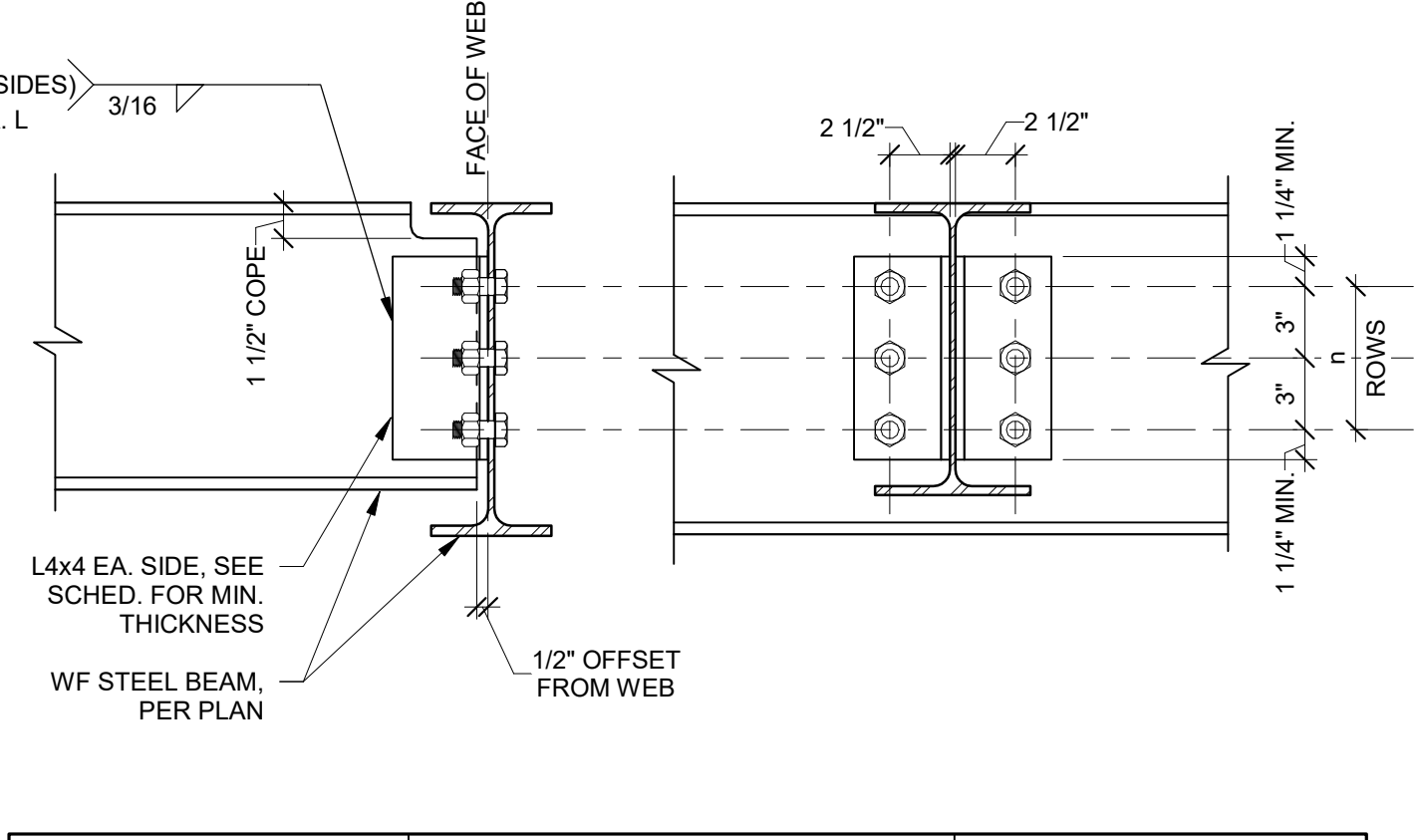
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STUDIO

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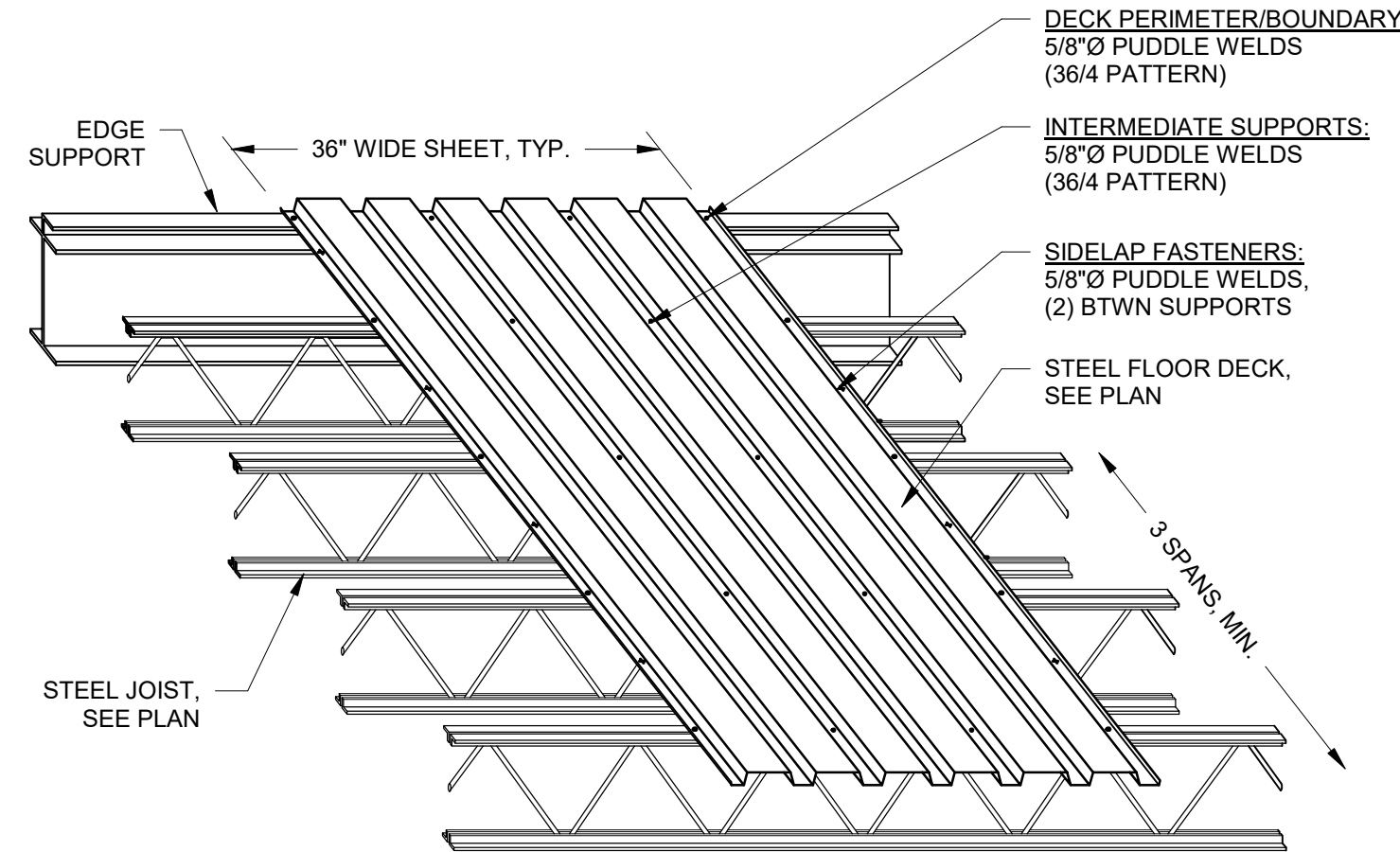
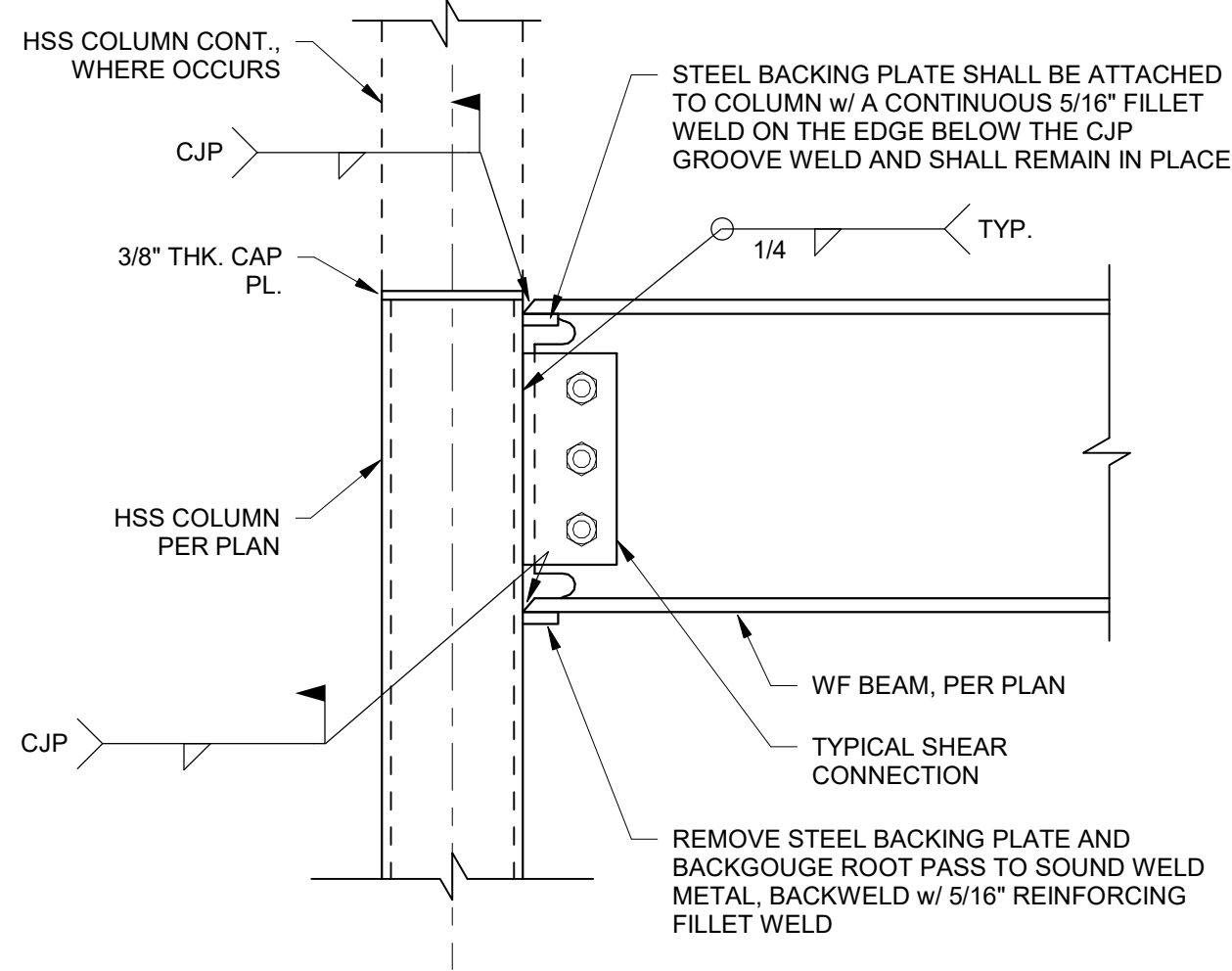


BEAM SIZE	# ROWS OF 3/4"Ø BOLTS, 'n'	MIN. PL. THICKNESS
W8, W10, C8, C10	2	1/4"
W12, W14, C12	3	1/4"
W16,W18	4	5/16"
W21,W24	5	5/16"
W27	6	5/16"



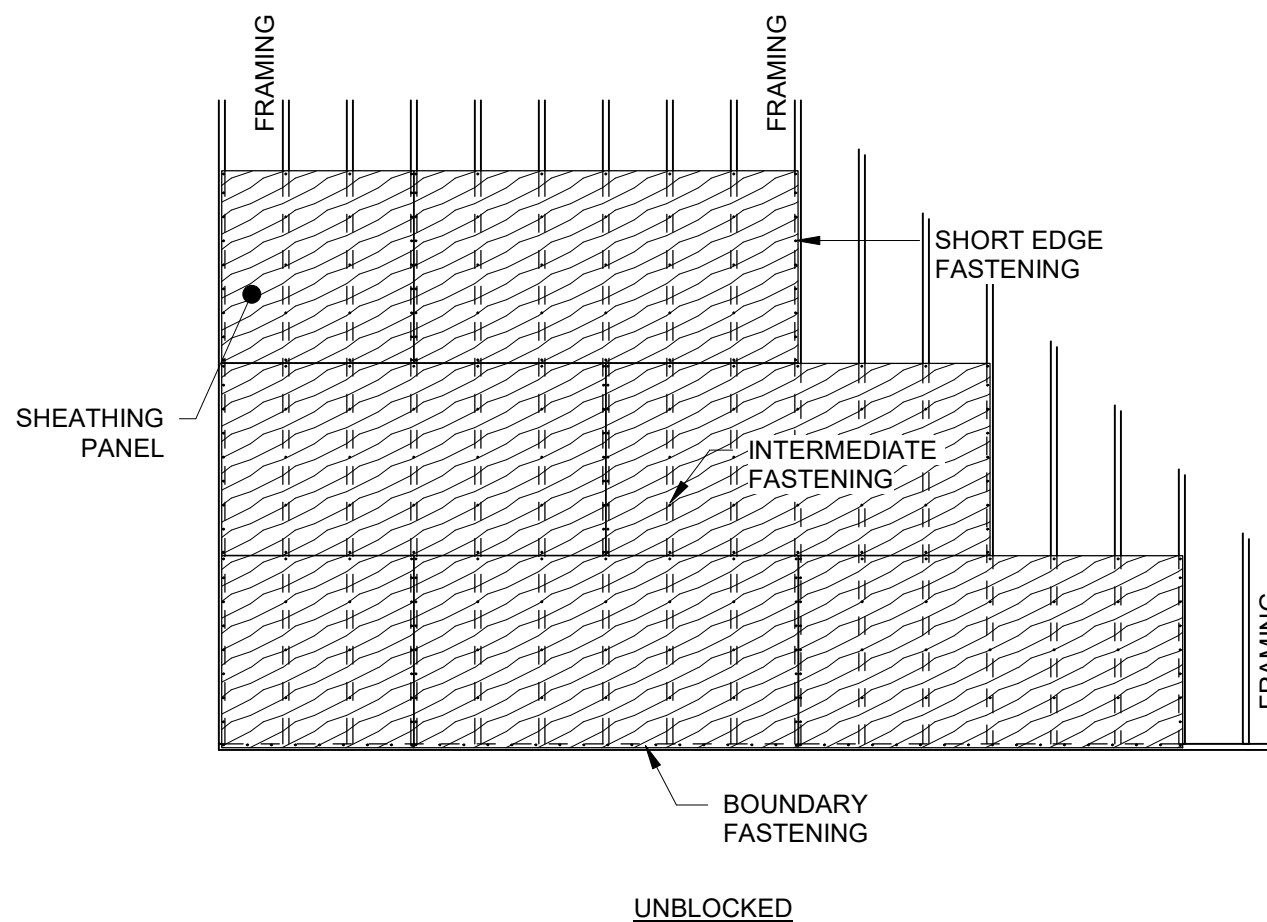
BEAM SIZE	# ROWS OF 3/4" DIA BOLTS, 'n'	MIN. L THICKNESS
W8, W10, C8, C10	2	1/4"
W12, W14, C12	3	1/4"
W16,W18	4	5/16"

NOTE:
DOUBLE ANGLES MAY BE SHOP WELDED OR SHOP BOLTED TO BEAM AT SUPPLIER'S OPTION.

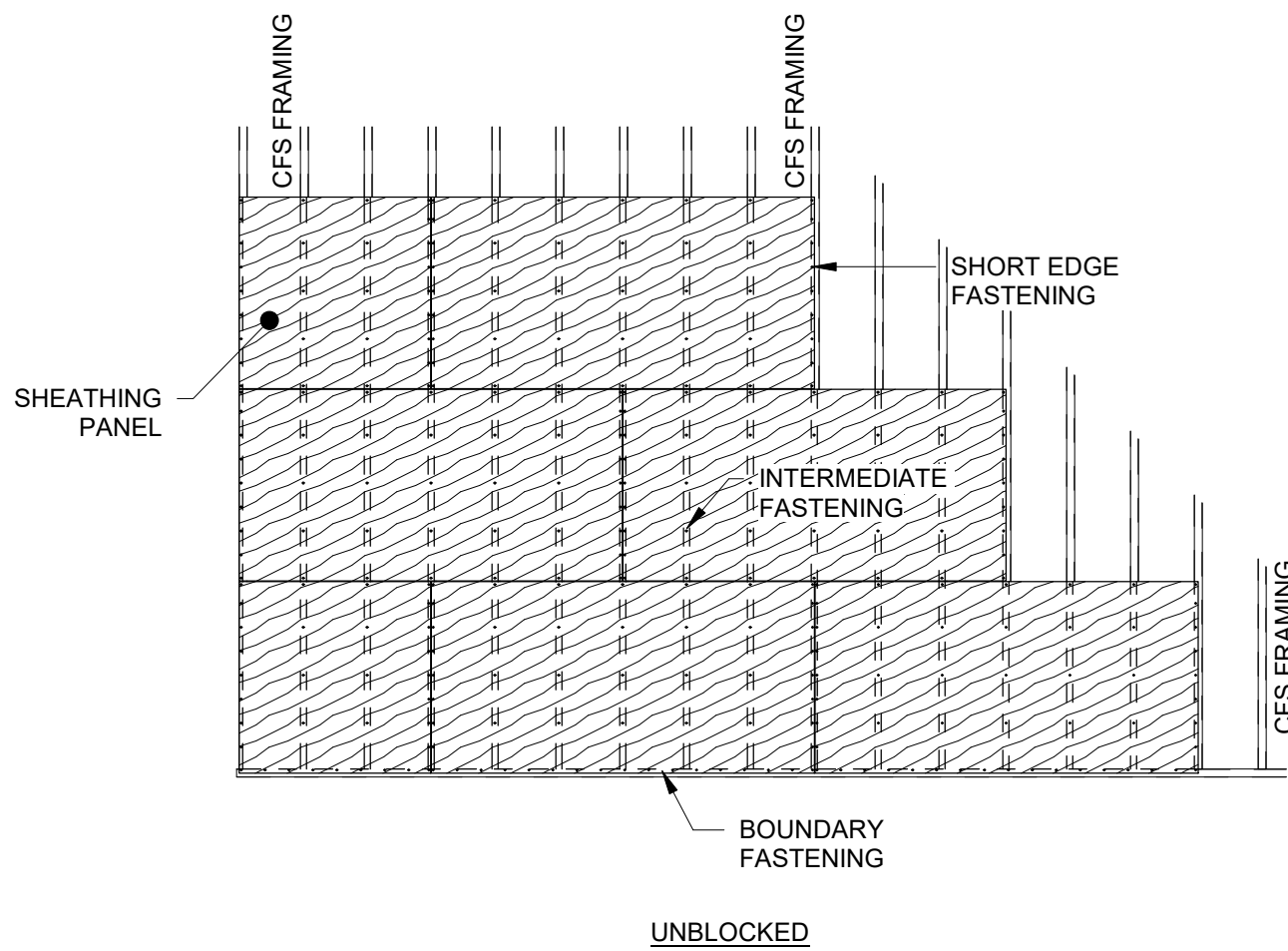


- NOTES:
- WELD PATTERN IS SPECIFIED FOR 36\"/>
 - SECURE DECK AT 12\"/>

FLOOR SHEATHING SCHEDULE	
USAGE:	FLOOR
THICKNESS:	3/4 IN.
TYPE:	PLYWOOD, T&G
BOND CLASSIFICATION:	EXP. 1
PANEL GRADE:	SINGLE FLOOR
SPAN RATING:	24 OC
BLOCKED/UNBLOCKED:	UNBLOCKED
FASTENER TYPE:	8d COMMON (2-1/2\"/>
BOUNDARY FASTENER SPACING:	6 IN.
SHORT EDGE FASTENER SPACING:	6 IN.
LONG EDGE FASTENER SPACING:	N/A
INTERMEDIATE FASTENER SPACING:	12 IN.



ROOF AND FLOOR SHEATHING SCHEDULE		
USAGE:	ROOF	FLOOR
THICKNESS:	1/2 IN.	3/4 IN.
TYPE:	OSB OR PLYWOOD	PLYWOOD, T&G
BOND CLASSIFICATION:	EXP. 1	EXP. 1
PANEL GRADE:	SHEATHING	SINGLE FLOOR
SPAN RATING:	32/16	24 OC
BLOCKED/UNBLOCKED:	UNBLOCKED	UNBLOCKED
FASTENER TYPE:	#10 TEK SCREWS	#10 TEK SCREWS
BOUNDARY FASTENER SPACING:	6 IN.	6 IN.
SHORT EDGE FASTENER SPACING:	6 IN.	6 IN.
LONG EDGE FASTENER SPACING:	N/A	N/A
INTERMEDIATE FASTENER SPACING:	12 IN.	12 IN.

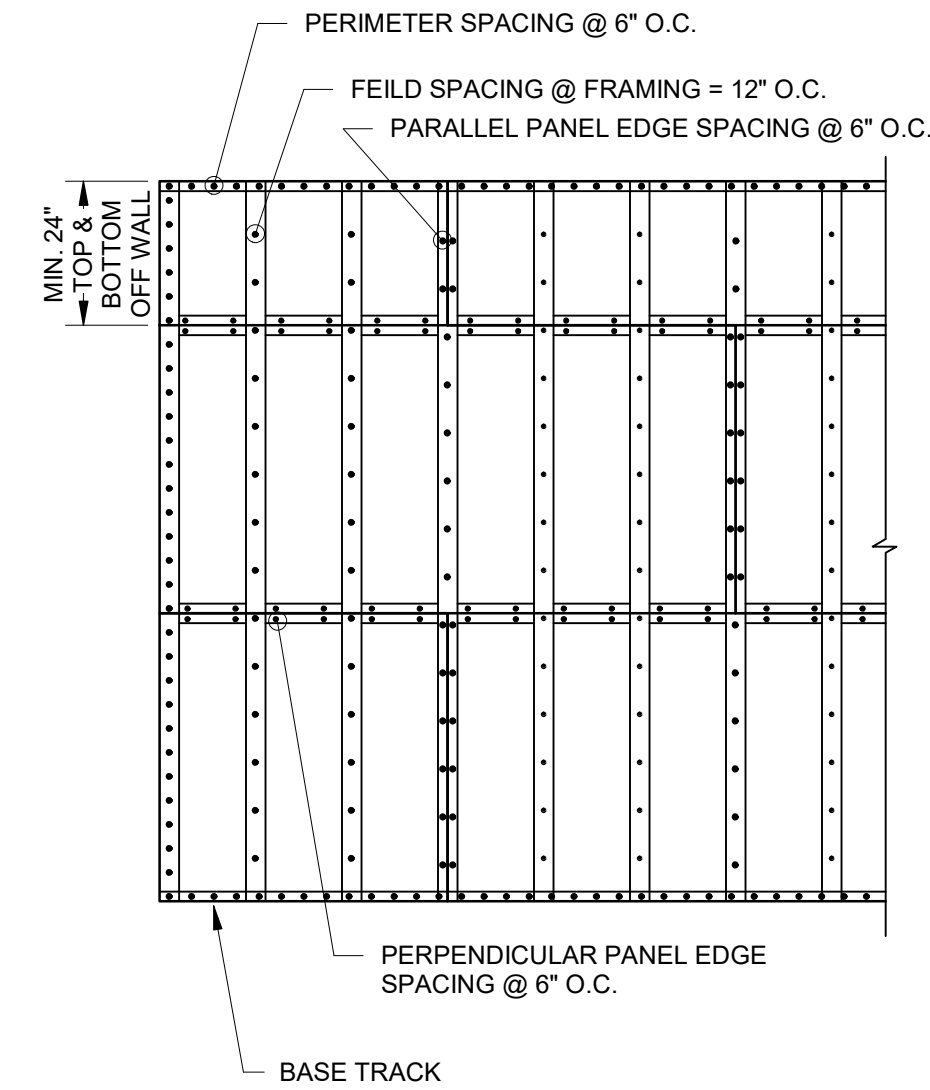


WOOD CONNECTOR TABLE				
FACE MOUNT HANGER				
MEMBER	BASIC	CONCEALED	SLOPED/ SKEWED	
2x6	LUS26	LUC26Z	LSSR26Z	
2x8	LUS28	LUC26Z	LSSR28Z	
2x10	LUS210	LUC210Z	LSSR210Z	
2x12	LUS210	LUC210Z	LSSR210Z	
(2) 2x8	LUS28-2	HUC28-2	--	
(2) 2x10	LUS210-2	HUC210-2	--	
(2) 2x12	LUS210-2	HUC212-2	--	
(3) 2x8	LUS28-3	HUC26-3	--	
(3) 2x10	LUS210-3	HUC210-3	--	
(3) 2x12	LUS210-3	HUC212-3	--	
3 1/2x11 1/4	HU412	HUC412	--	

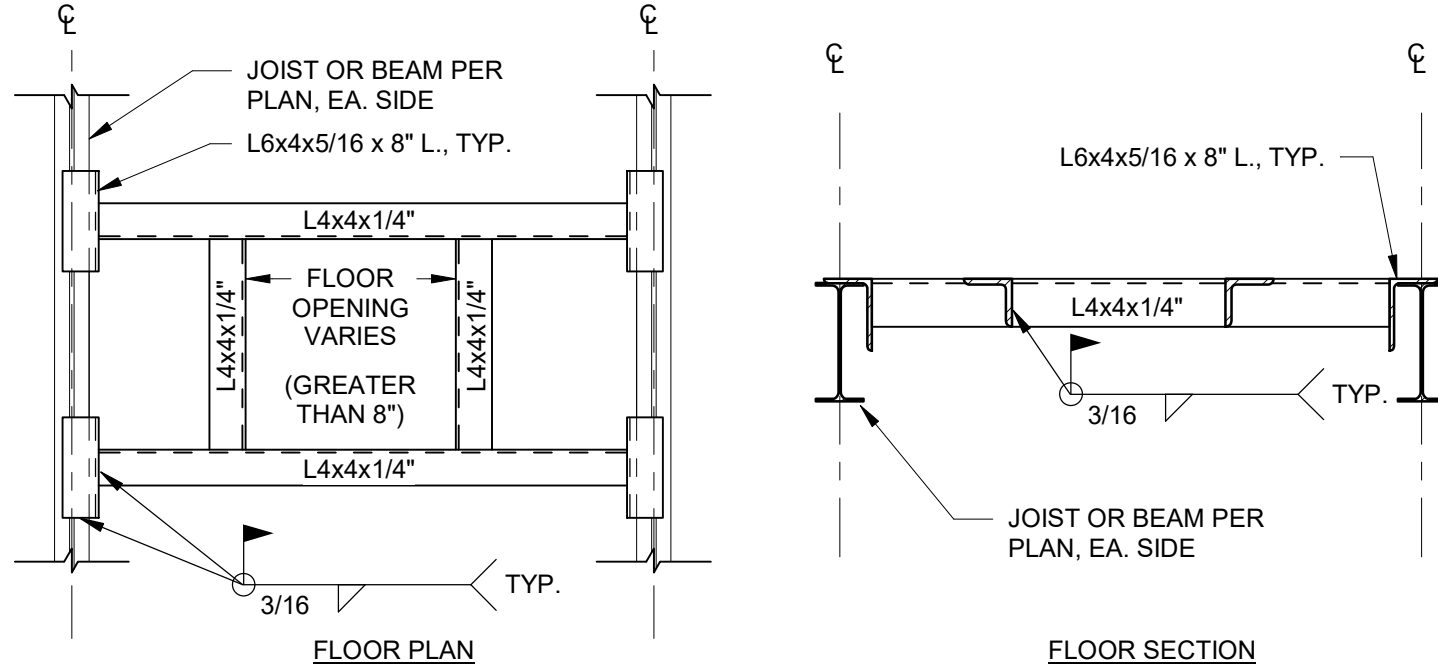
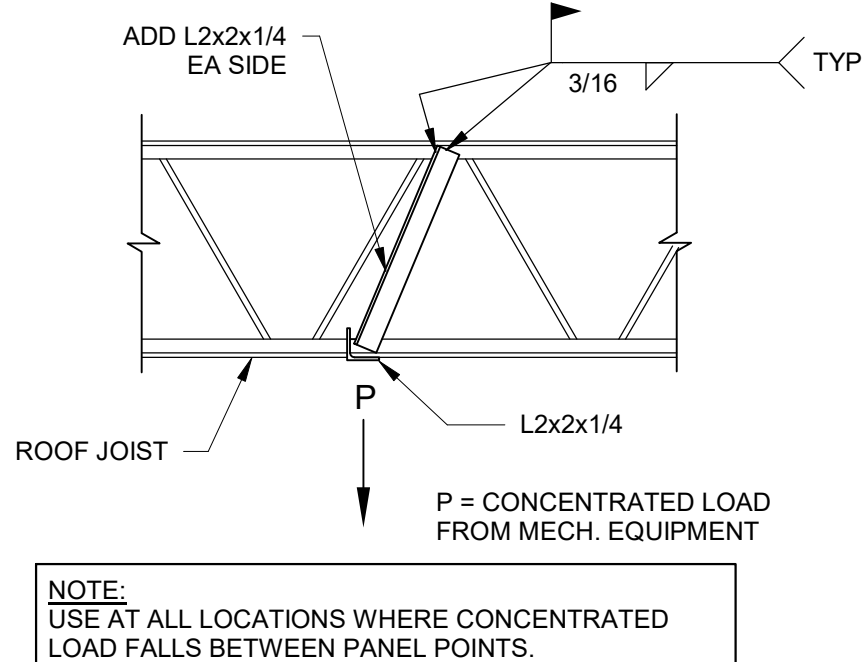
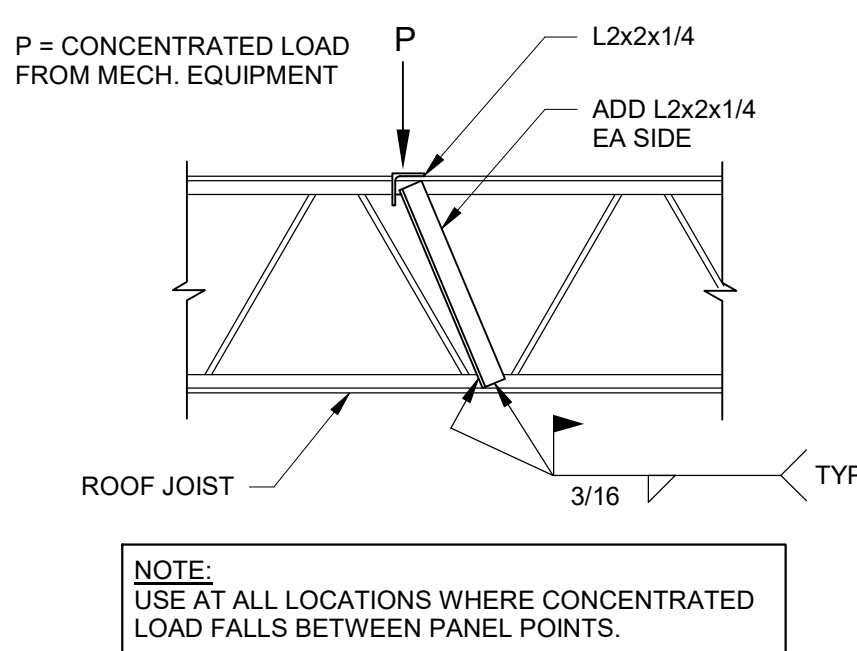
JOINT DESCRIPTION	NUMBER OF COMMON NAILS	NUMBER OF BOX NAILS	NAIL SPACING
ROOF FRAMING			
BLOCKING TO RAFTER (TOE-NAILED)	2-8d	2-10d	EA. END
RIM BOARD TO RAFTER (END-NAILED)	2-16d	3-16d	EA. END
WALL FRAMING			
TOP PLATES AT INTERSECTIONS (FACE-NAILED)	4-16d	5-16d	AT JOINTS
STUD TO STUD (FACE-NAILED)	2-16d	2-16d	24\"/>
HEADER TO HEADER (FACE-NAILED)	16d	16d	16\"/>
FLOOR FRAMING			
JOIST TO SILL, TOP PLATE OR GIRDER (TOE-NAILED)	4-8d	4-10d	EA. END
BLOCKING TO JOIST (TOE-NAILED)	2-8d	2-10d	EA. END
BLOCKING TO SILL OR TOP PLATE (TOE-NAILED)	3-16d	4-16d	EA. BLOCK
LEDGER STRIP TO BEAM OR GIRDER (FACE-NAILED)	3-16d	4-16d	EA. JOIST
JOIST ON LEDGER TO BEAM (TOE-NAILED)	3-8d	3-10d	EA. END
BAND JOIST TO JOIST (END-NAILED)	3-16d	4-16d	EA. END
BAND JOIST TO SILL OR TOP PLATE (TOE-NAILED)	2-16d	3-16d	PER FOOT

2x & LVL MEMBERS		MINIMUM FASTENING REQUIREMENTS FOR TOP AND SIDE LOADED MEMBERS			
		2 PLY	3 PLY	4 PLY	5 PLY
10d (0.128\"/>	MEMBER DEPTH	7 1/4\"/>	7 1/4\"/>	--	--
	7 1/4\"/>	3 ROWS @ 12\"/>	4 ROWS @ 12\"/>	--	--
16d (0.162\"/>	MEMBER DEPTH	7 1/4\"/>	7 1/4\"/>	--	--
	7 1/4\"/>	4 ROWS @ 12\"/>	2 ROWS @ 12\"/>	--	--
1/2\"/>	MEMBER DEPTH	d ≥ 14\"/>	3 ROWS @ 12\"/>	2 ROWS @ 24\"/>	2 ROWS @ 24\"/>
	d ≥ 14\"/>	2 ROWS @ 24\"/>	2 ROWS @ 24\"/>	--	--
SDS 1/4\"/>	MEMBER DEPTH	d ≥ 7 1/4\"/>	2 ROWS @ 24\"/>	2 ROWS @ 24\"/>	2 ROWS @ 24\"/>
	d ≥ 7 1/4\"/>	--	--	--	--
SDS 1/4\"/>	MEMBER DEPTH	d ≥ 7 1/4\"/>	2 ROWS @ 24\"/>	2 ROWS @ 24\"/>	2 ROWS @ 24\"/>
	d ≥ 7 1/4\"/>	--	--	--	--
FASTENER CLEARANCES FOR MULTI-PLY MEMBERS					
FASTENER	A	B	C	D	
	MIN.	MIN.	MAX.	MIN.	MAX.
10d & 16d NAILS	2\"/>	2\"/>	8\"/>	4\"/>	12\"/>
BOLTS AND SCREWS	2\"/>	4\"/>	12\"/>	4\"/>	24\"/>
2 ROWS "ES" (OFFSET ON REVERSE SIDE)					
3 ROWS "ES" (OFFSET ON REVERSE SIDE)					
4 ROWS "ES" (OFFSET ON REVERSE SIDE)					

- NOTES:
- ALL FASTENERS MUST HAVE THE LENGTH FULLY EMBEDDED, BUT MUST NOT BE OVERDRIVEN, COUNTERSUNK, OR OVER-TIGHTENED.
 - BOLT HOLES ARE TO BE 1/16\"/>



- NOTE:
- PROVIDE WALL SHEATHING SCREWS FROM INSIDE OF CFS STUD WALL TO OUTSIDE SHEATHING FOR CFS STUD WALLS BELOW EXISTING BRICK MASONRY PARAPET WALL.
 - ALL SCREWS ARE #8 UNF.



REVISIONS		
#	DATE	DESCRIPTION

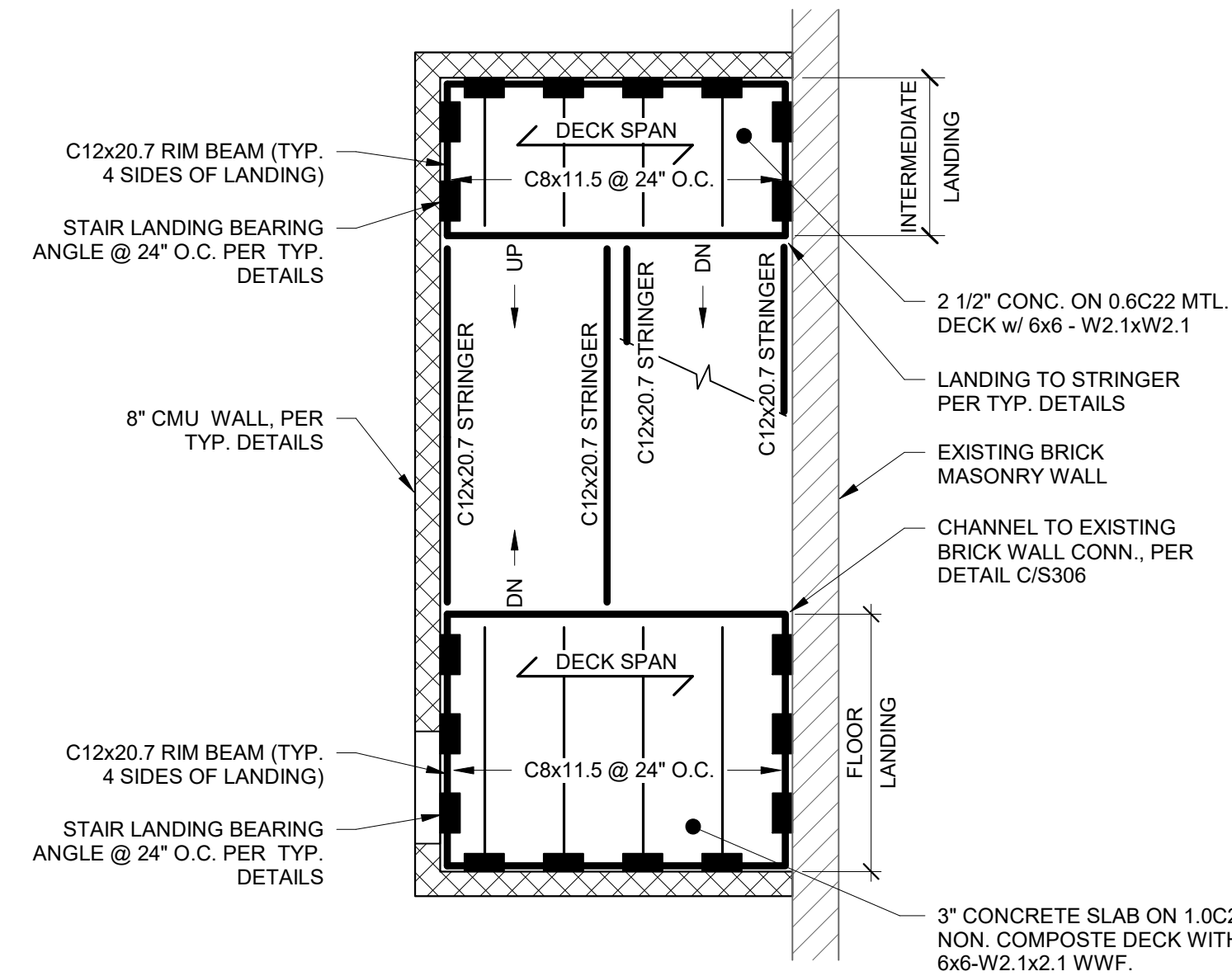
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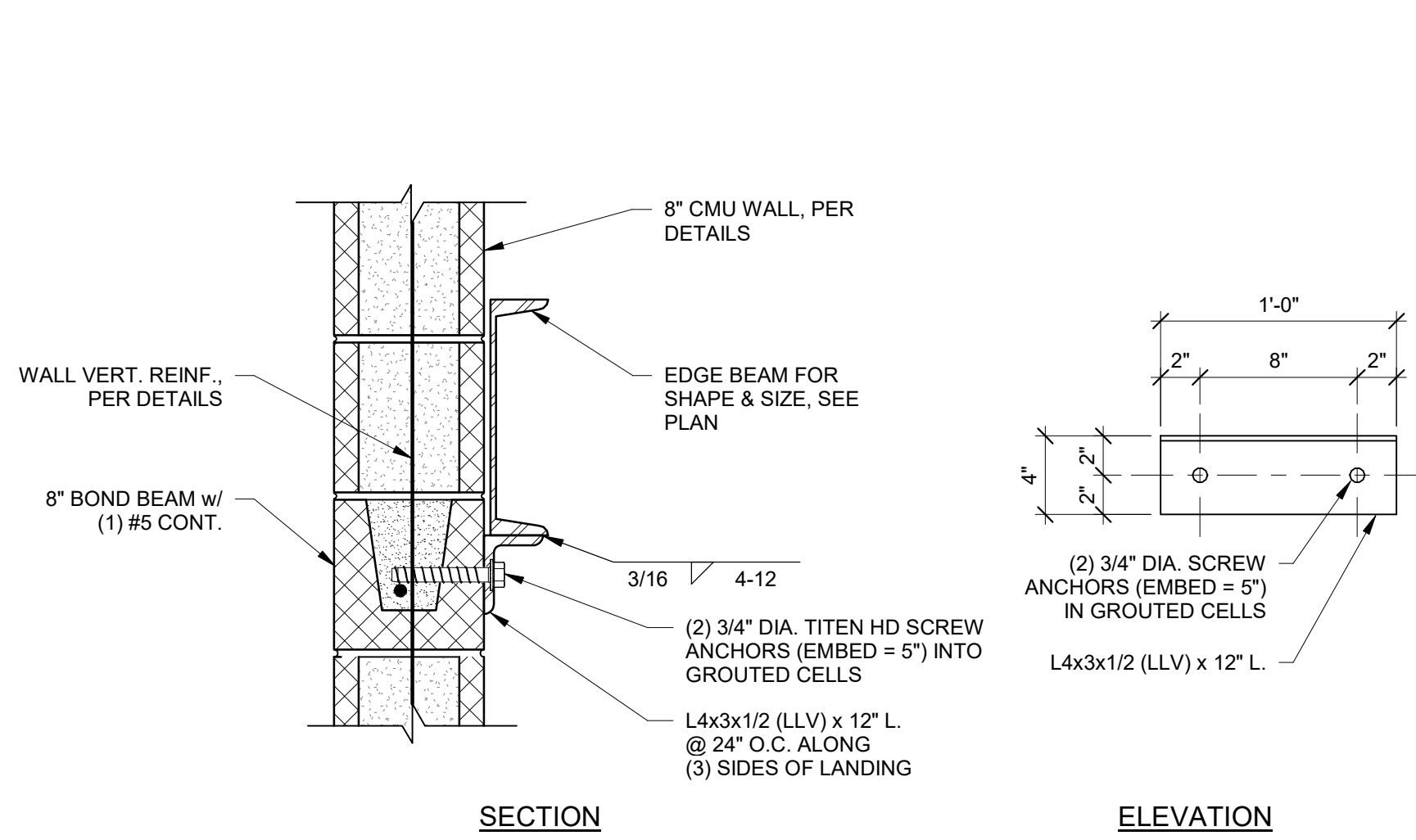
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SAVANNAH, GEORGIA
PROJECT NO. 22.295
DATE 03/29/24
DRAWN BY RP
CHECKED BY BKS
STRUCTURAL DETAILS

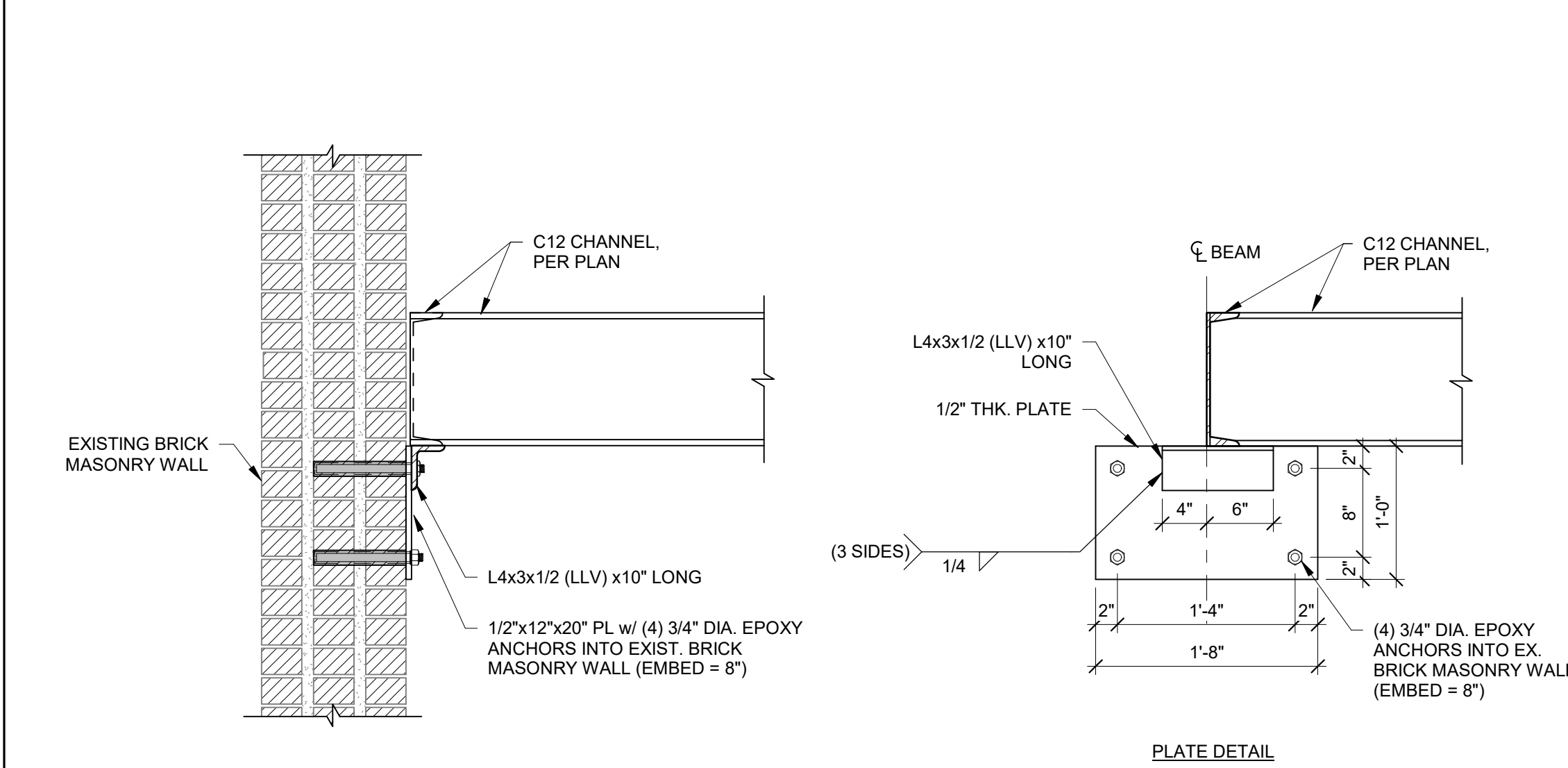
S306



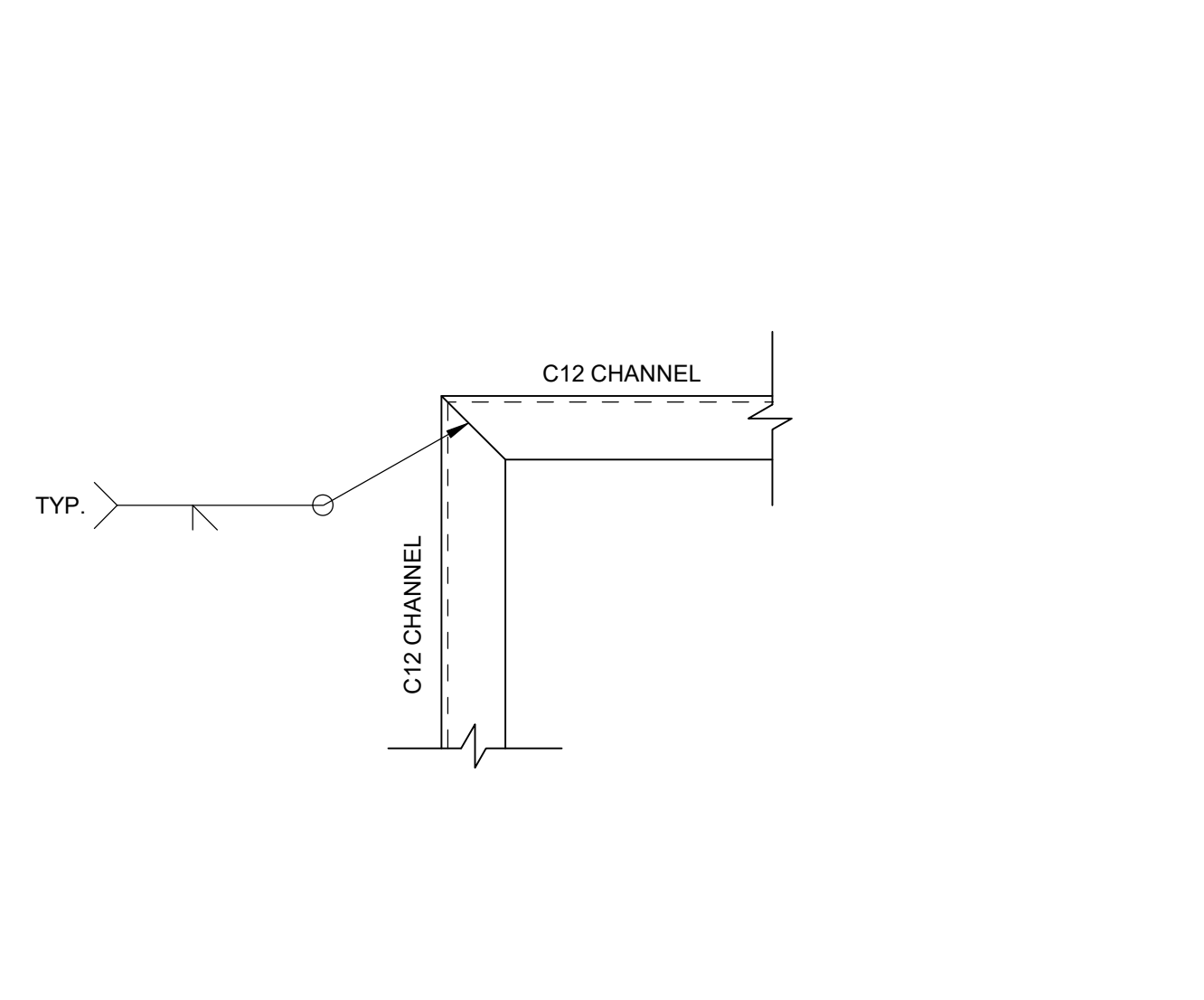
A TYPICAL STAIR FRAMING PLAN
1/4" = 1'-0"



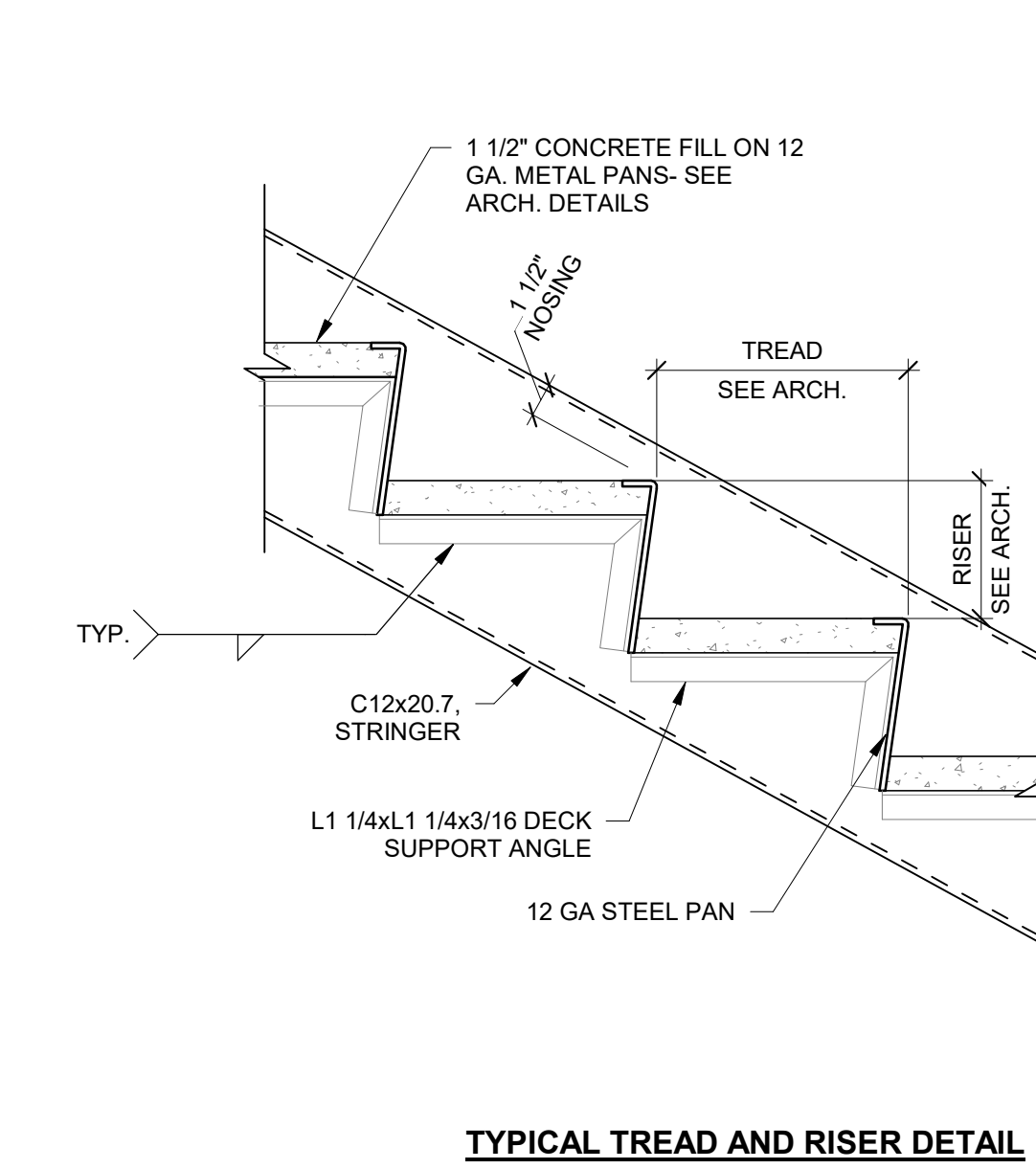
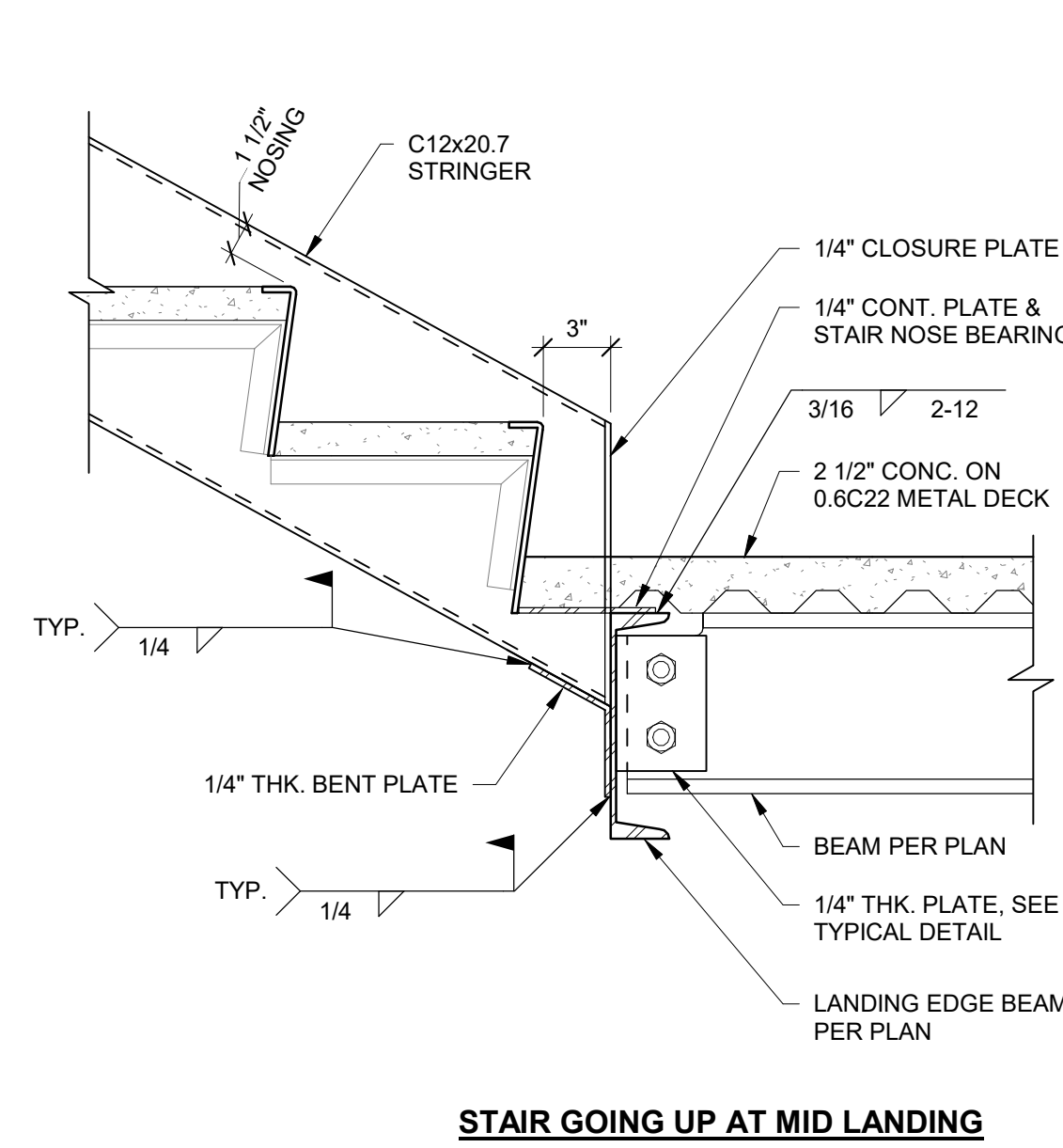
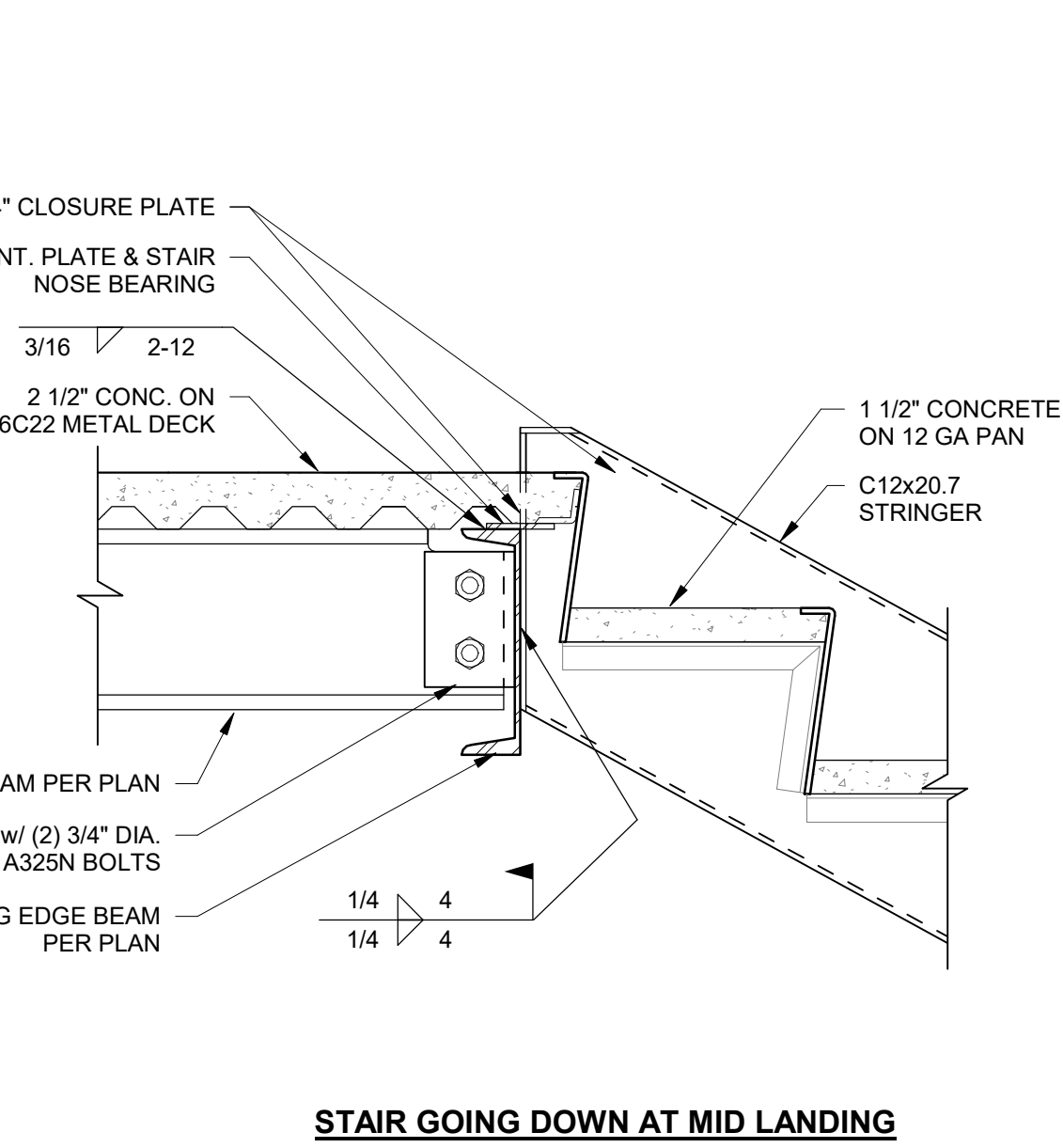
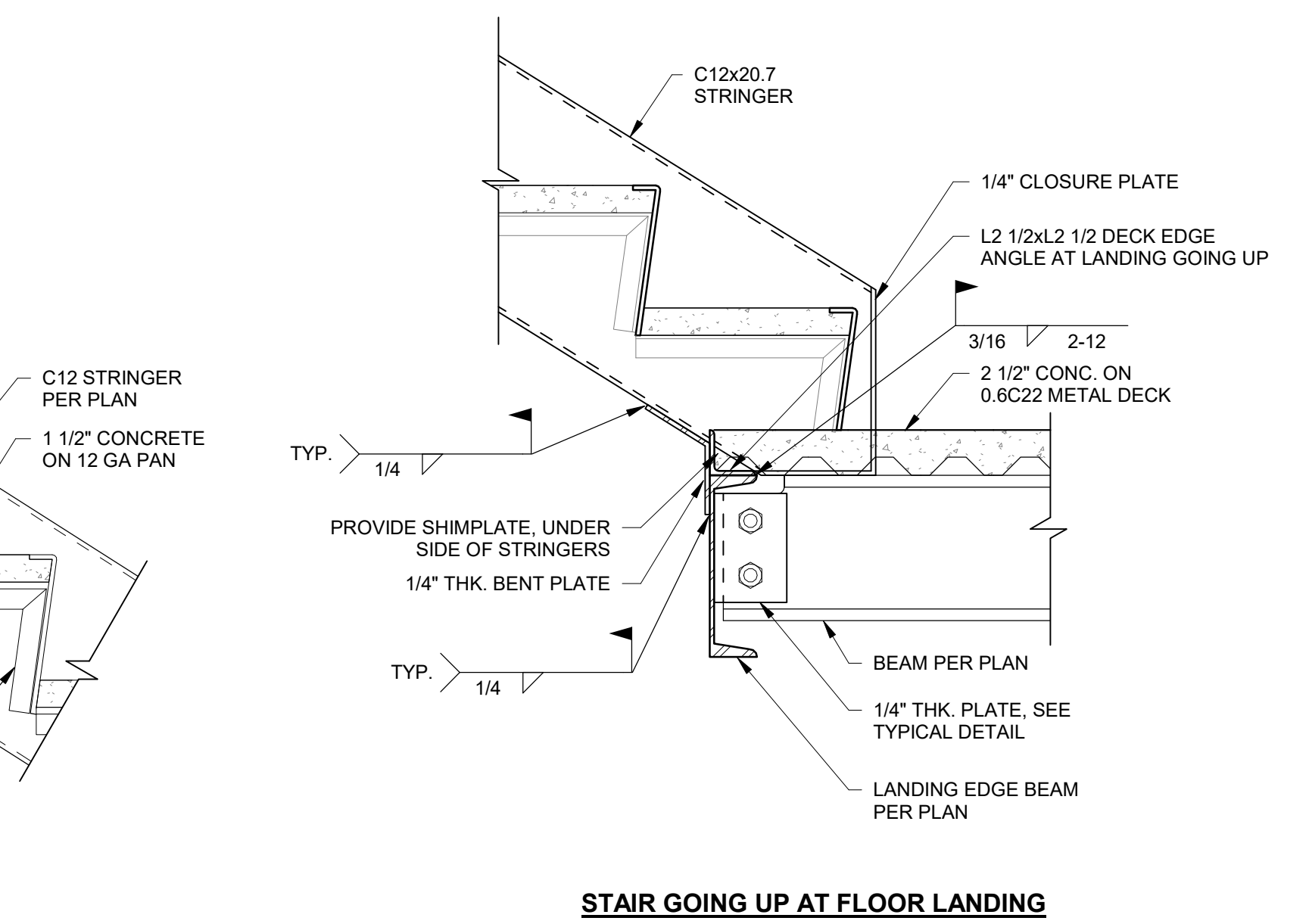
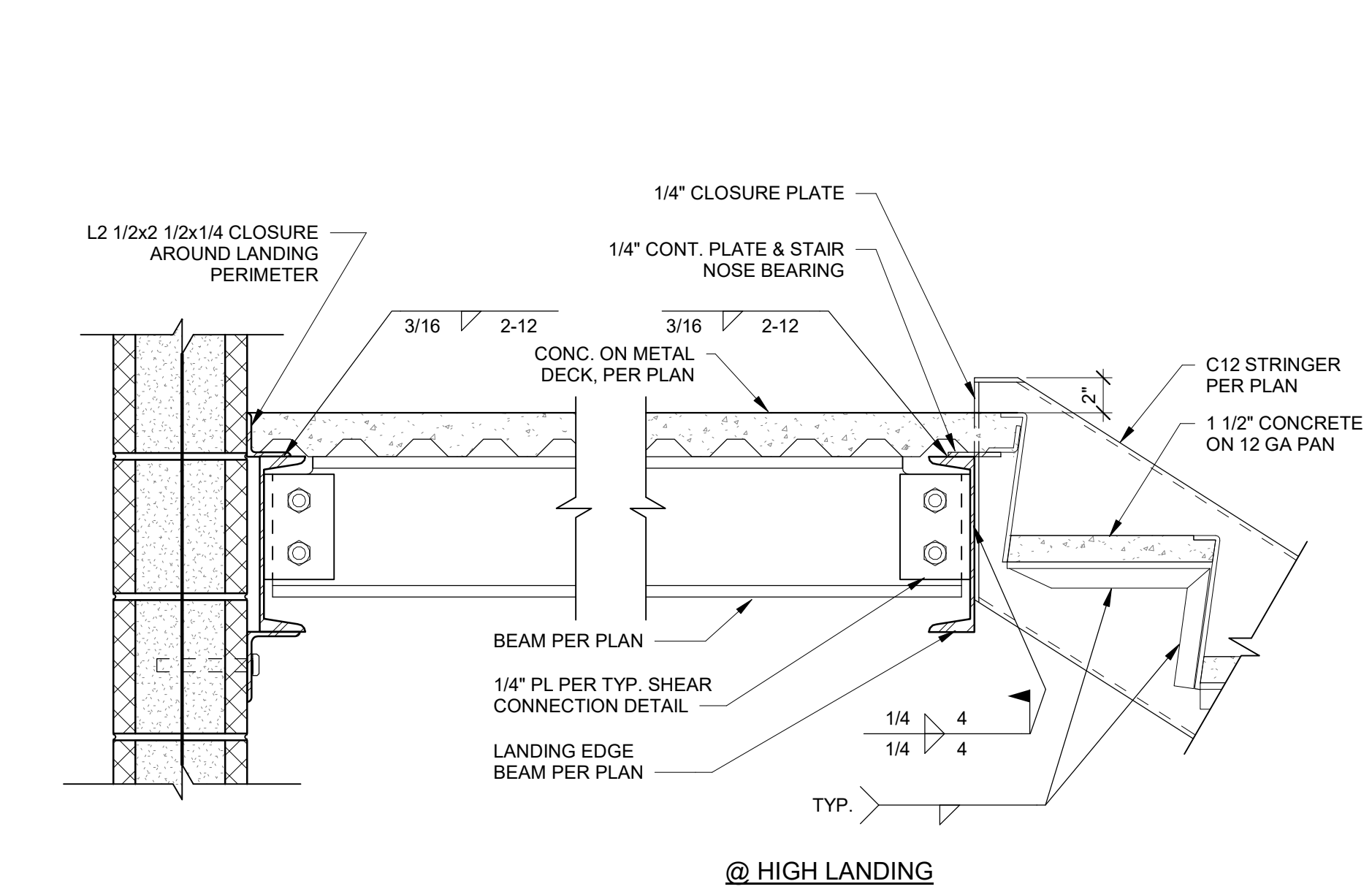
B STAIR LANDING BEARING PL DETAIL
1 1/2" = 1'-0"



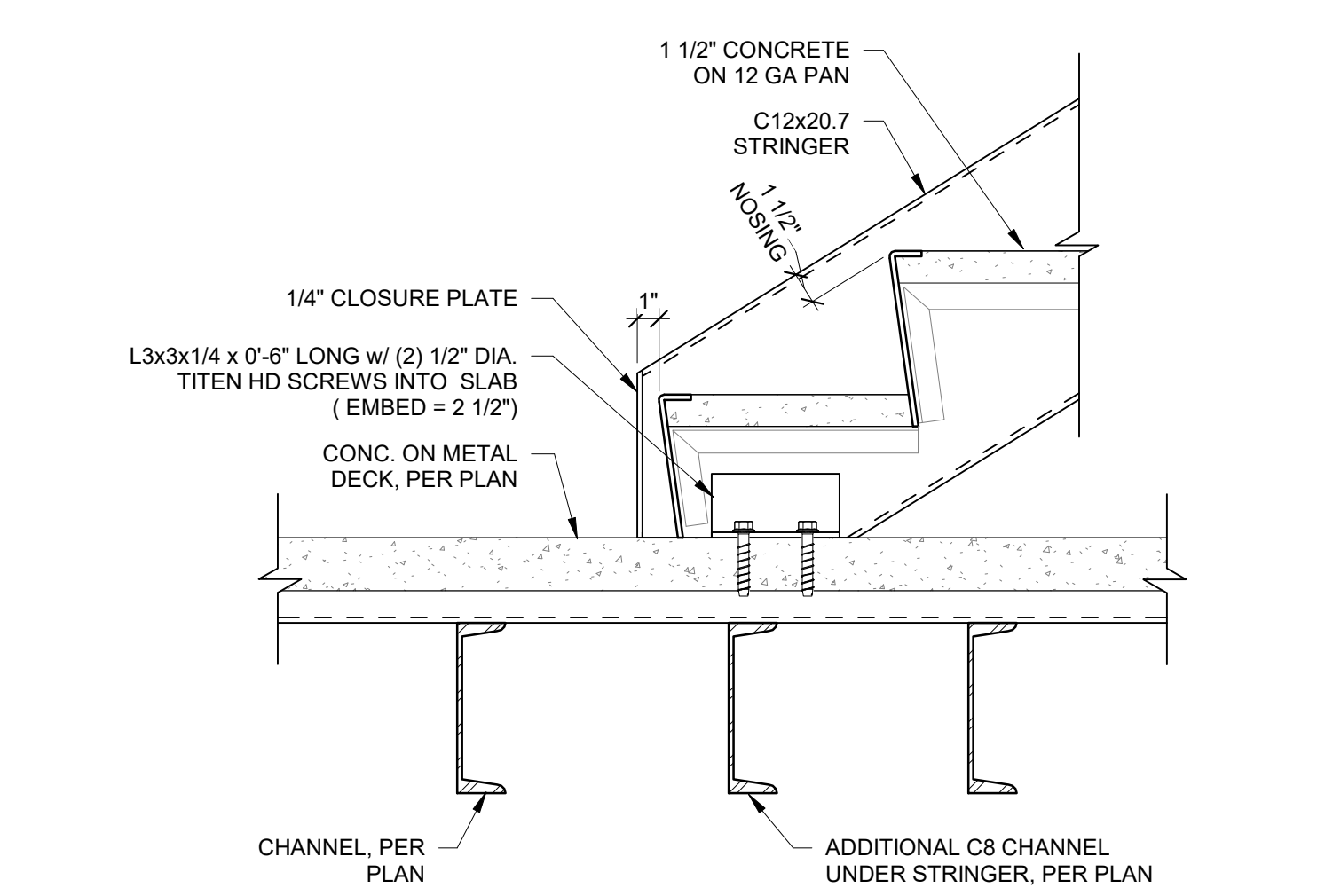
C CHANNEL TO EXISTING BRICK WALL CONNECTION DETAIL
1" = 1'-0"



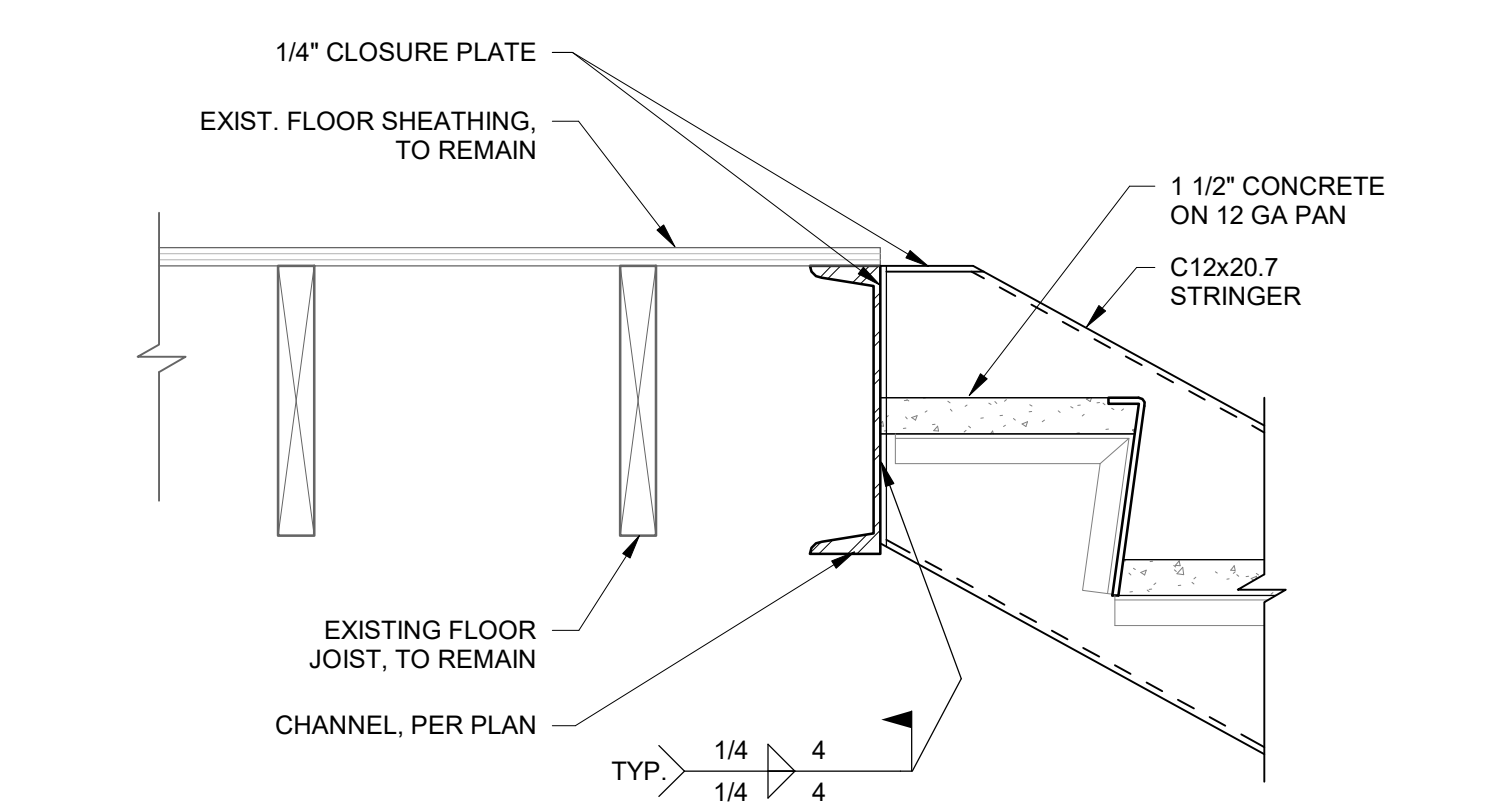
D TYPICAL CHANNEL CORNER CONNECTION (MITERED)
1 1/2" = 1'-0"



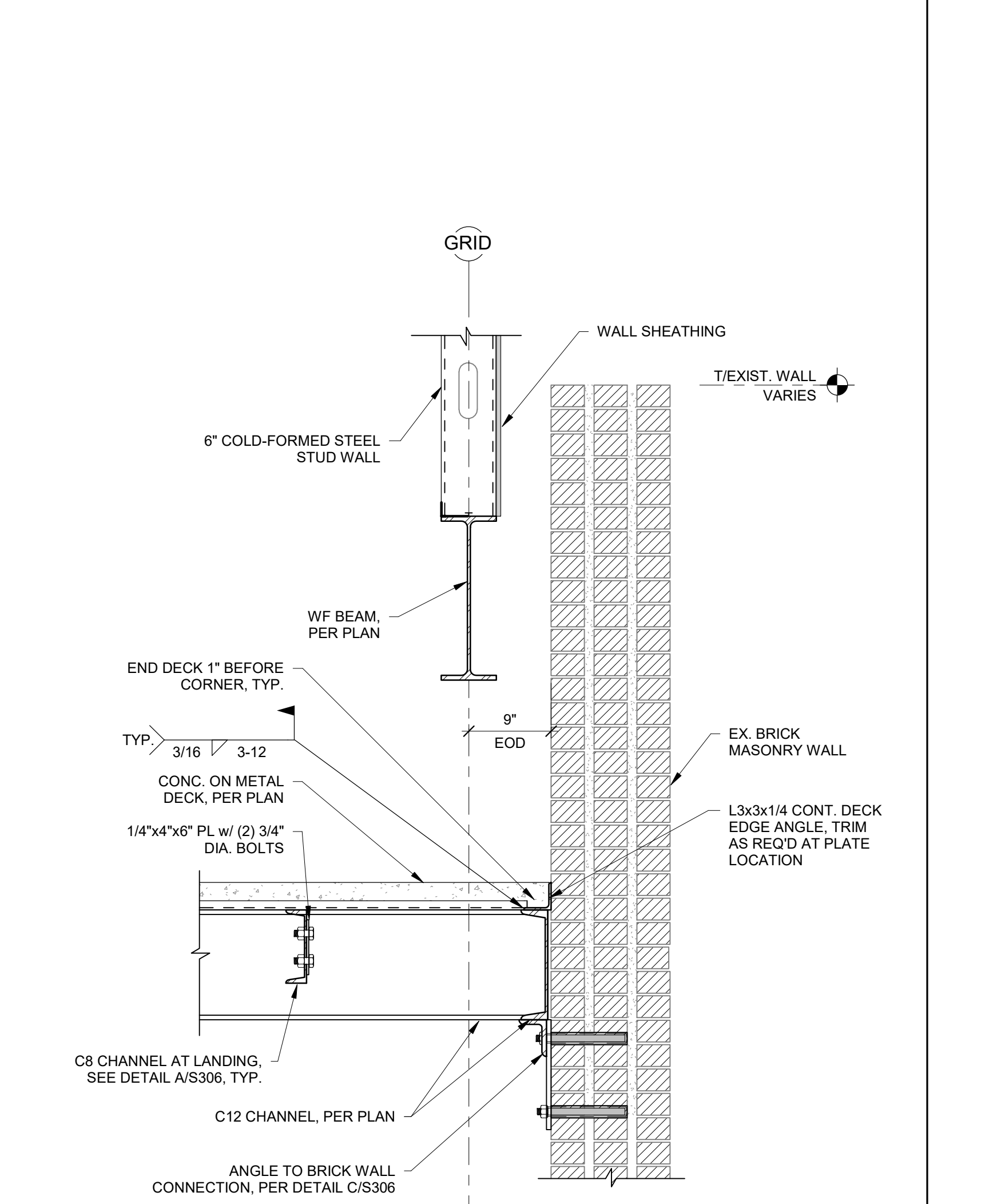
E METAL STAIR STRINGER TO LANDING & FLOOR FRAMING DETAILS
1 1/2" = 1'-0"



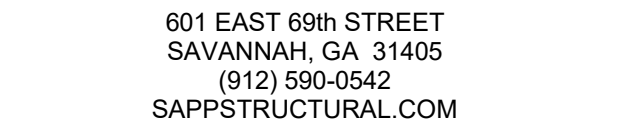
F STRINGER BASE CONNECTION AT FIRST FLOOR
1 1/2" = 1'-0"



G STRINGER TOP CONNECTION AT FIRST FLOOR
1 1/2" = 1'-0"



H SECTION AT FOURTH FLOOR STAIR LANDING
1" = 1'-0"

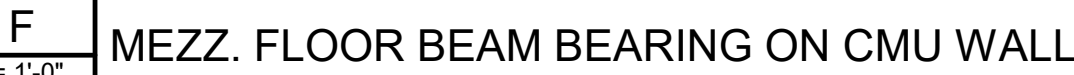


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STRUCTURAL DETAILS

S307



ASSEMBLY THICKNESS
4 7/8"

FLOOR/CEILING ASSEMBLY,
REFER TO BUILDING SECTIONS FOR
TYPE DESIGNATION.

WALLS TO EXTEND TO UNDERSIDE OF
ASSEMBLY ABOVE W/ CONTINUOUS
ACOUSTICAL SEALANT ALONG TOP OF WALL

DEEP LEG DEFLECTION TRACK ALONG
TOP OF FRAMING SET IN ACOUSTICAL
SEALANT. REFER TO STRUCTURAL
DRAWINGS.

(1) LAYER 5/8" GWB PANELS ON EACH SIDE.
PROVIDE 5/8" MRGWB IN WET LOCATIONS
(BATHROOMS, KITCHENS, ETC.).

3 3/8" METAL STUDS SPACED 1'-4" O.C. MAX.

CONTINUOUS ACOUSTICAL SEALANT
ALONG BASE OF WALL

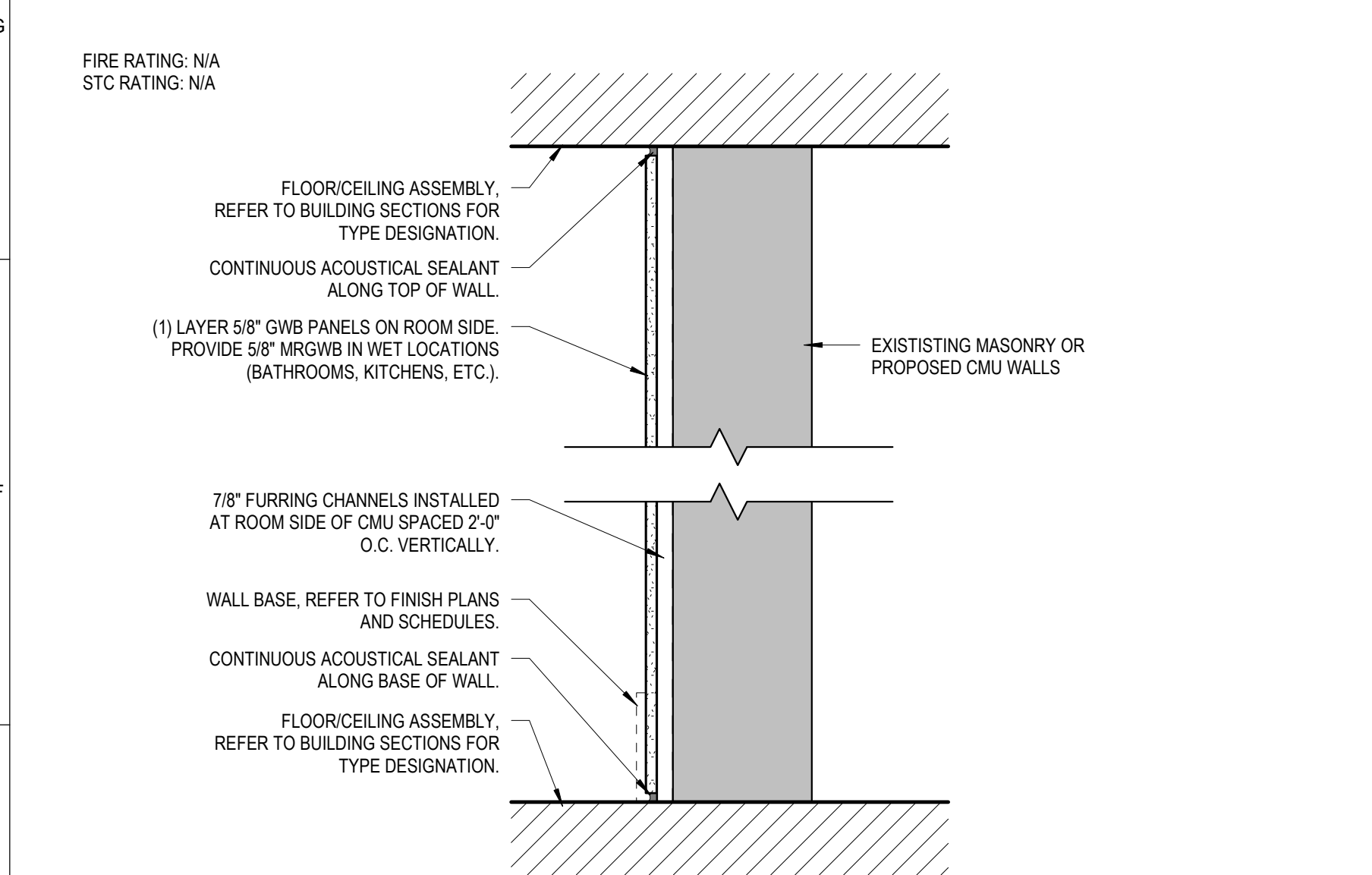
FLOOR/CEILING ASSEMBLY,
REFER TO BUILDING SECTIONS FOR
TYPE DESIGNATION.

FIBERGLASS SOUND ATTENUATION
INSULATION SIZED TO FIT WITHIN
STUD CAVITY.

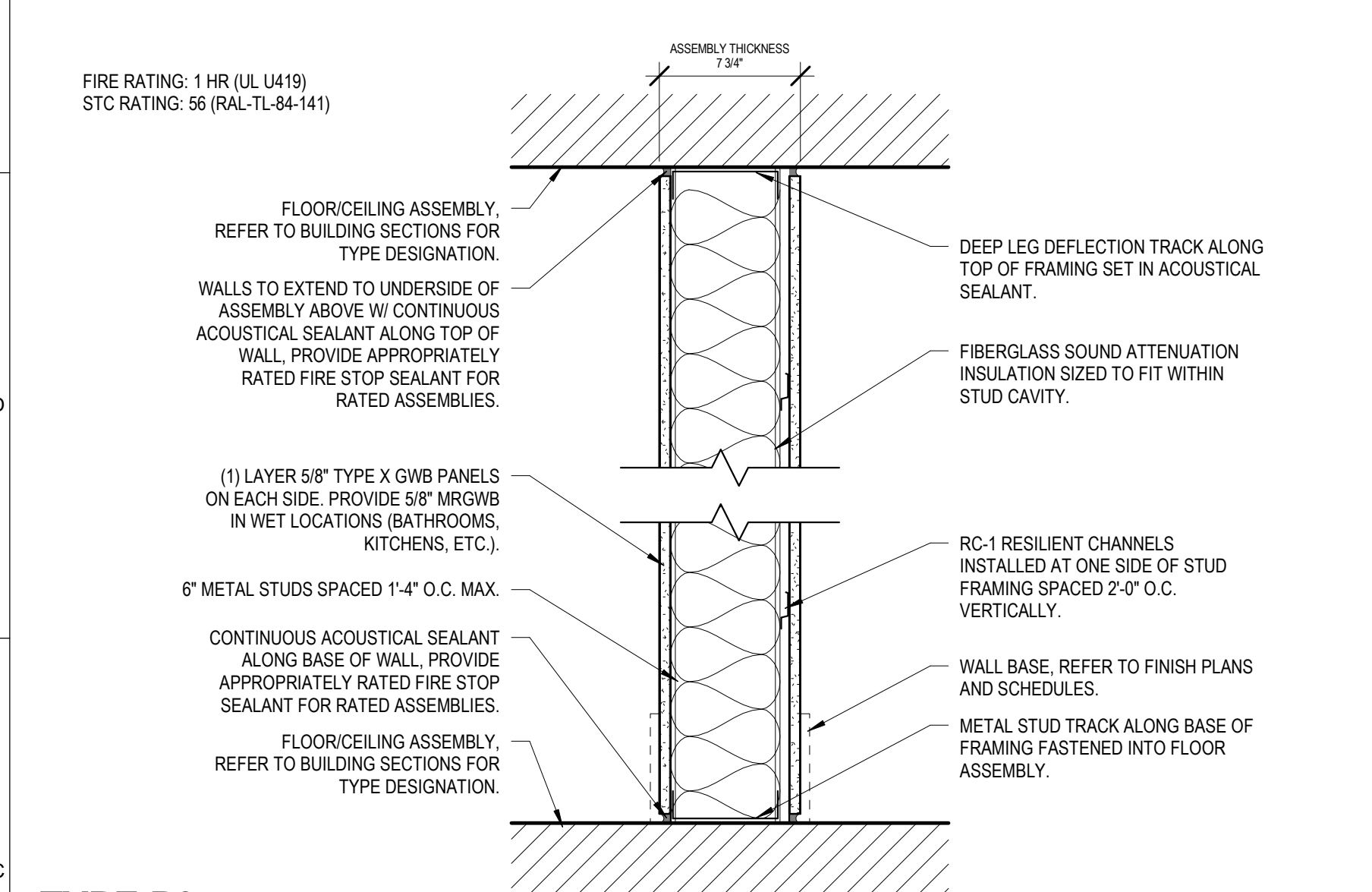
WALL BASE. REFER TO FINISH PLANS
AND SCHEDULES.

METAL STUD TRACK ALONG BASE OF
FRAMING FASTENED INTO FLOOR
ASSEMBLY. REFER TO STRUCTURAL
DRAWINGS.

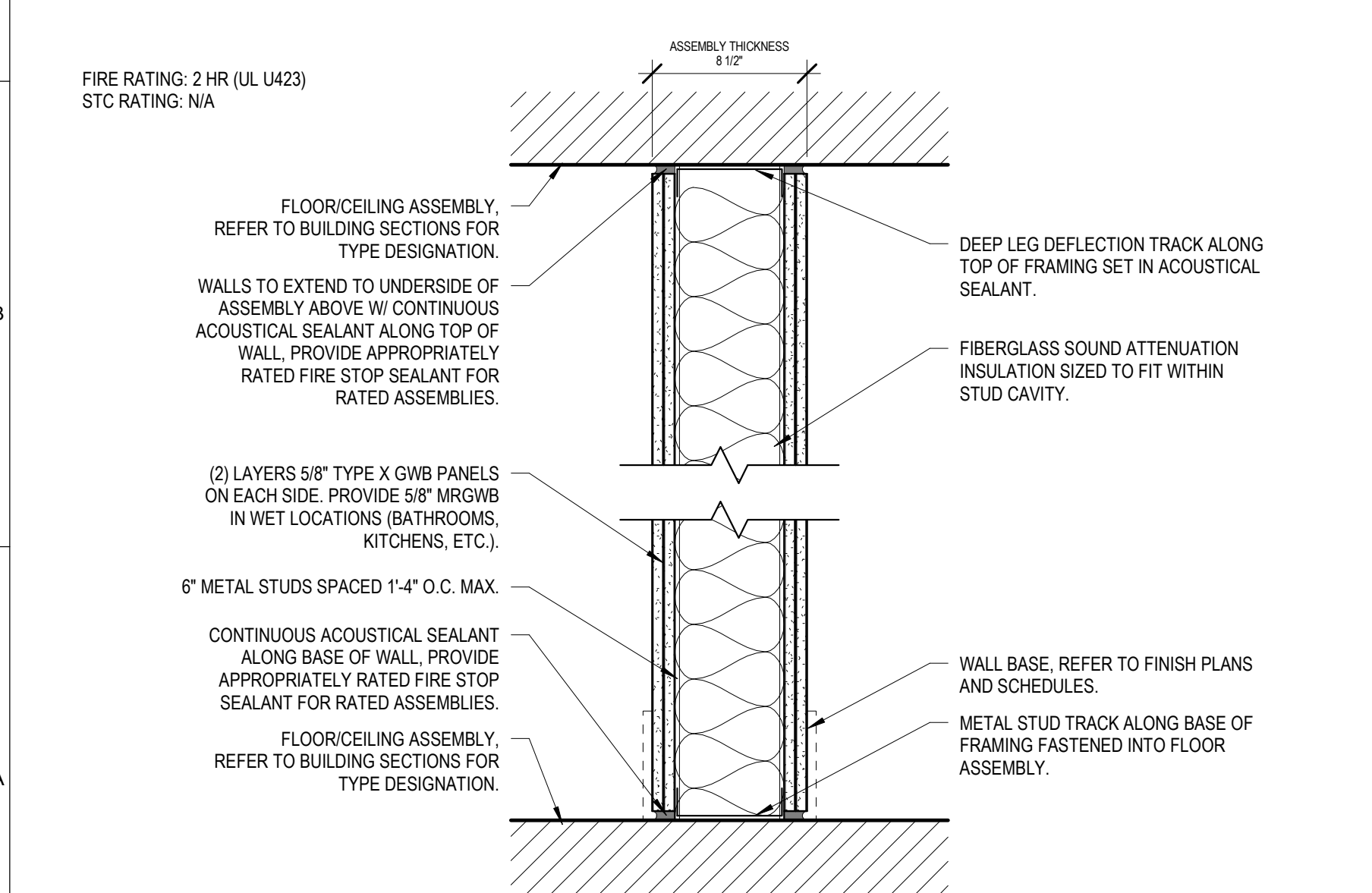
SUBTYPES	TYPE P1.1 - SIM. TO TYPE P1 BUT WITH 6" METAL STUDS IN LIEU OF 3 5/8" METAL STUDS
----------	---



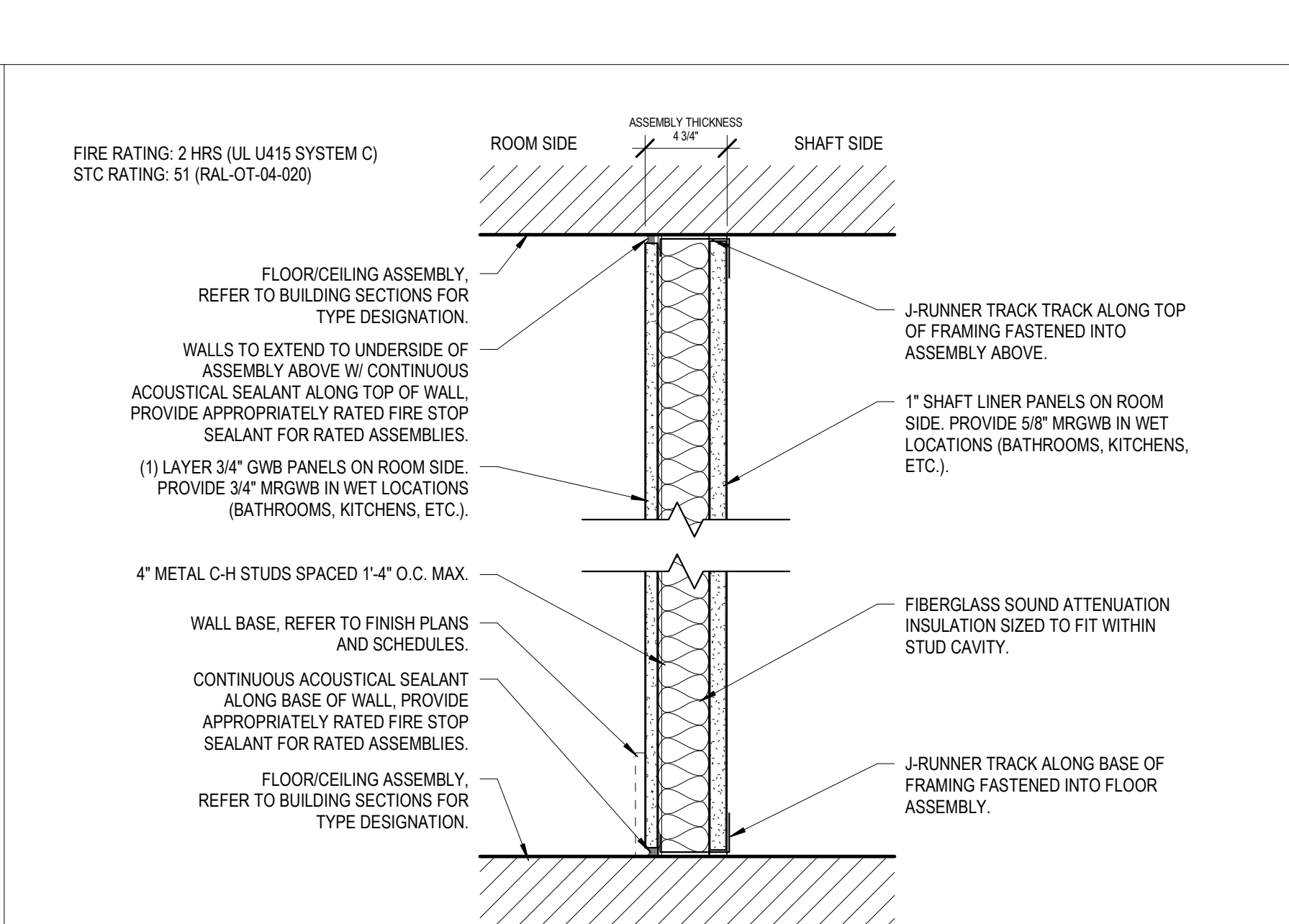
SUBTYPES	TYPE P2.1 - SIM. TO TYPE P2 BUT WITH 1 1/2" FURRING CHANNELS IN LIEU OF 7/8" FURRING CHANNELS
----------	---



SUBTYPES	TYPE P3.1 - SIM. TO TYPE P3 BUT WITHOUT 1/2" RC-1 RESILIENT CHANNELS
----------	--



	1	2	
--	---	---	--



A horizontal number line with arrows at both ends. It has three tick marks labeled 3, 4, and 5 from left to right. The line is divided into segments by these tick marks.

FIRE RATING: 2 HR (UL U423)
R-VALUE: 14.2 / 8.7 (c)

EXTERIOR SIDE

INTERIOR SIDE

ASSEMBLY THICKNESS
19 1/2"

FLAT-PLATE METAL WALL PANELS
(B.O.D. 1'-0" x 1'-0" METALTECH SQUARE
DIAMOND FLAT-PLATE PANELS)

1/2" EXTRUDED POLYSTYRENE INSULATION BOARDS.
R-VALUE: 7.5 (g)

FLUID-APPLIED MEMBRANE AIR-BARRIER

(2) LAYERS 5/8" FIBERGLASS MAT GYPSUM
SHEATHING PANELS ON EXTERIOR SIDE.
R-VALUE: 1.2 (g)

(2) LAYERS 5/8" GWB PANELS ON INTERIOR SIDE.
R-VALUE: 1.2

6" METAL STUDS SPACED 1'-4" O.C. MAX.

MIN. R-13 UNFACED FIBERGLASS INSULATION
R-VALUE: 13

FIRE RATING: 1 HR (UL U419)
R-VALUE: 13.6 / 8.1(c)

EXTERIOR SIDE

INTERIOR SIDE

WOOD SIDING PANELS
(B.O.D. RESAWN TIMBER 5/8" x 5 3/8" ACCOYA CLADDING)

1 1/2" EXTRUDED POLYSTYRENE INSULATION BOARDS
R-VALUE: 7.5(c)

FLUID-APPLIED MEMBRANE AIR-BARRIER

(1) LAYER 5/8" FIBERGLASS MAT GYPSUM SHEATHING PANELS ON EXTERIOR SIDE.
R-VALUE: 0.6(c)

(1) LAYER 5/8" GWB PANELS ON INTERIOR SIDE.
R-VALUE: 0.6

6" METAL STUDS SPACED 1'-4" O.C. MAX.

MIN. R-13 UNFACED FIBERGLASS INSULATION
R-VALUE: 13

The diagram illustrates a vertical cross-section of a wall assembly, with the exterior side on the left and the interior side on the right. The assembly consists of several layers:

- Exterior Side (Left):**
 - WOOD SIDING PANELS (B.O.D. RESAWN TIMBER 5/8" x 5 3/8" ACCOYA CLADDING):** The outermost layer, shown as vertical wooden planks.
 - 1 1/2" EXTRUDED POLYSTYRENE INSULATION BOARDS (R-VALUE: 7.5(c)):** A thick layer of insulation directly behind the siding.
 - FLUID-APPLIED MEMBRANE AIR-BARRIER:** A thin, wavy line representing a membrane applied over the insulation.
 - (2) LAYERS 5/8" FIBERGLASS MAT GYPSUM SHEATHING PANELS ON EXTERIOR SIDE (R-VALUE: 1.2(c)):** Two layers of gypsum board attached to the exterior of the insulation.
- Interior Side (Right):**
 - (2) LAYERS 5/8" GWB PANELS ON INTERIOR SIDE (R-VALUE: 1.2):** Two layers of gypsum board attached to the interior of the wall.
 - 6" METAL STUDS SPACED 1-4" O.C. MAX.:** Vertical metal studs supporting the interior gypsum board.
 - MIN. R-13 UNFACED FIBERGLASS INSULATION (R-VALUE: 13):** A thick layer of insulation between the exterior and interior gypsum board.

Arrows point from the text labels to the corresponding layers in the cross-section. The diagram is bounded by horizontal lines at the top and bottom, with small triangles indicating the continuation of the wall.

6	7	
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The diagram illustrates a cross-section of a fire-rated floor assembly. The assembly consists of several layers: a top finish flooring layer, an existing wood subfloor and finish floor, a fiberglass sound attenuation insulation layer held by clips, existing wood floor joists, and two layers of 5/8" type X GWB panels. RC-1 resilient channels are installed to the underside of the framing, spaced 1'4" O.C. perpendicular to the joists. The diagram is labeled with various components and their ratings.

FIRE RATING: 2 HR (UL 511)
STC RATING: N/A
ICC RATING: N/A

FINISH FLOORING MATERIAL, REFER TO FINISH PLANS AND SCHEDULES.

EXISTING WOOD SUBFLOOR AND FINISH FLOOR. GC TO VERIFY THE EXISTING CONSTRUCTION MEETS 1" MIN. THICKNESS PER UL ASSEMBLY.

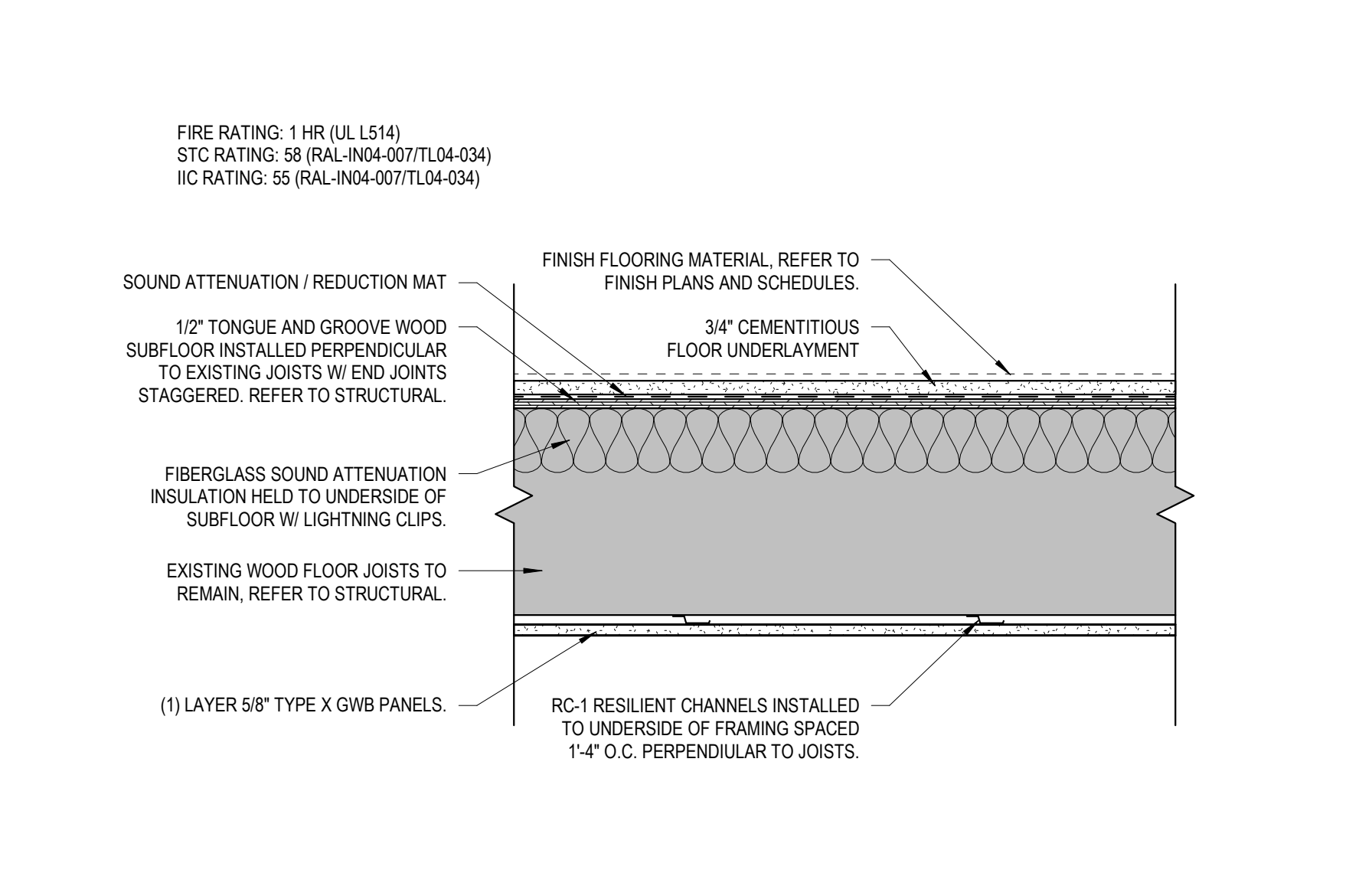
FIBERGLASS SOUND ATTENUATION INSULATION HELD TO UNDERSIDE OF SUBFLOOR W/ LIGHTNING CLIPS.

EXISTING WOOD FLOOR JOISTS TO REMAIN, REFER TO STRUCTURAL.

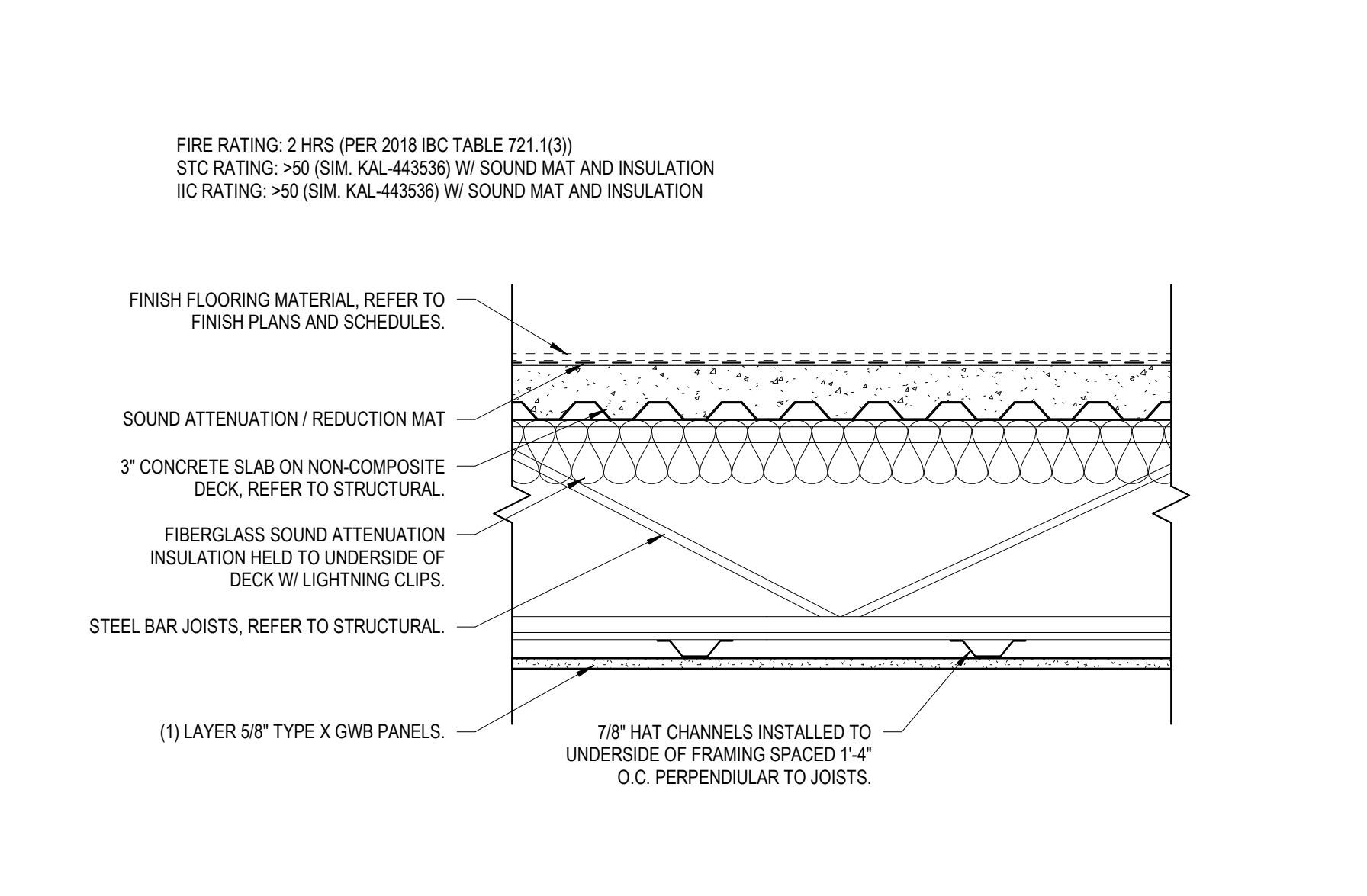
(2) LAYERS 5/8" TYPE X GWB PANELS, ONE DIRECTLY FASTENED TO EXISTING FLOOR JOISTS AND ONE BELOW RESILIENT CHANNELS.

RC-1 RESILIENT CHANNELS INSTALLED TO UNDERSIDE OF FRAMING SPACED 1'4" O.C. PERPENDICULAR TO JOISTS.

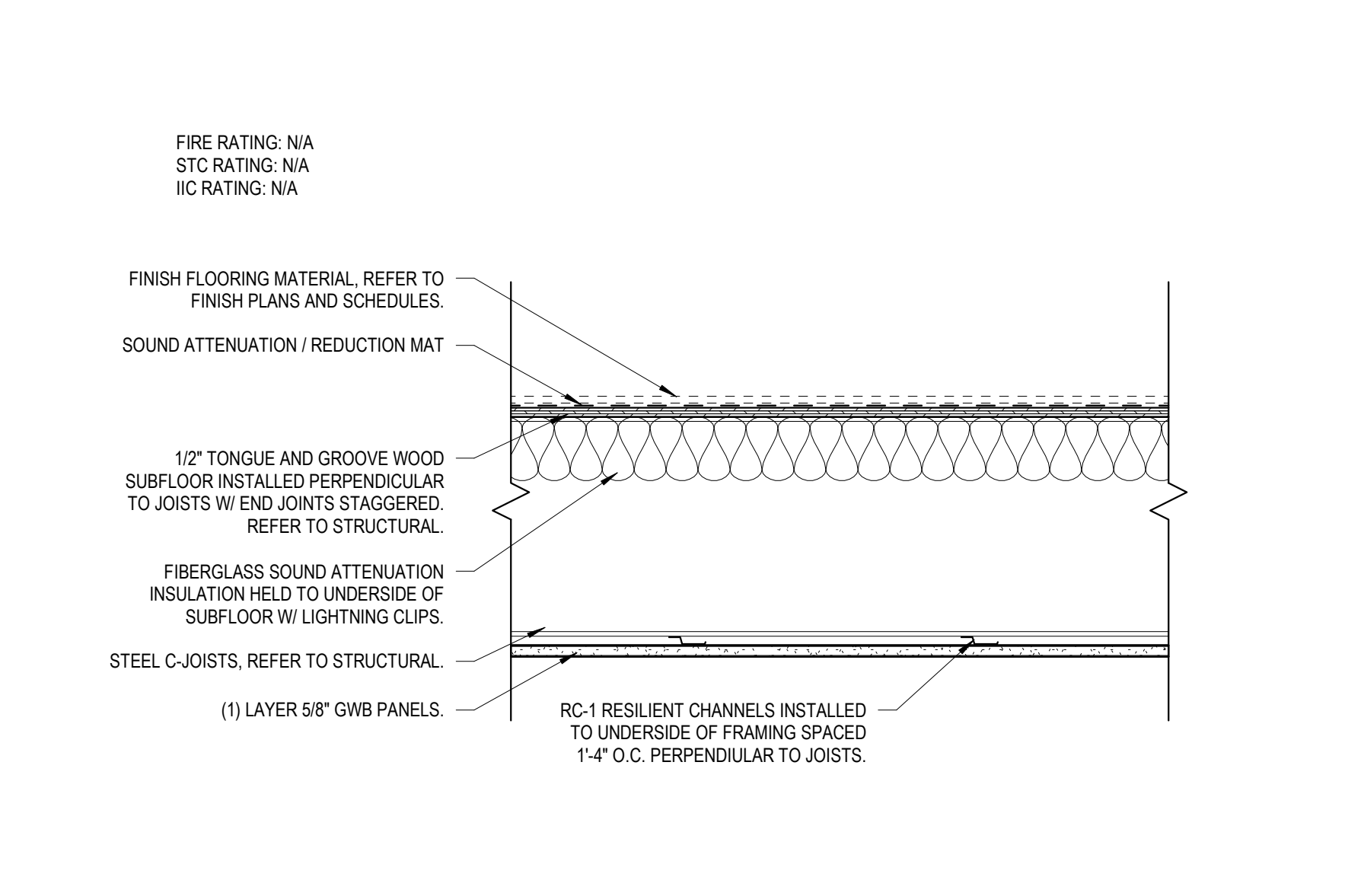
SUBTYPES	TYPE 1.1 - SIM. TO TYPE P1 BUT WITHOUT GWB PANELS AND RESILIAN T CHANNELS ON UNDERSIDE OF JOISTS
----------	--



TYPE 2 (SECOND/THIRD LOOK)

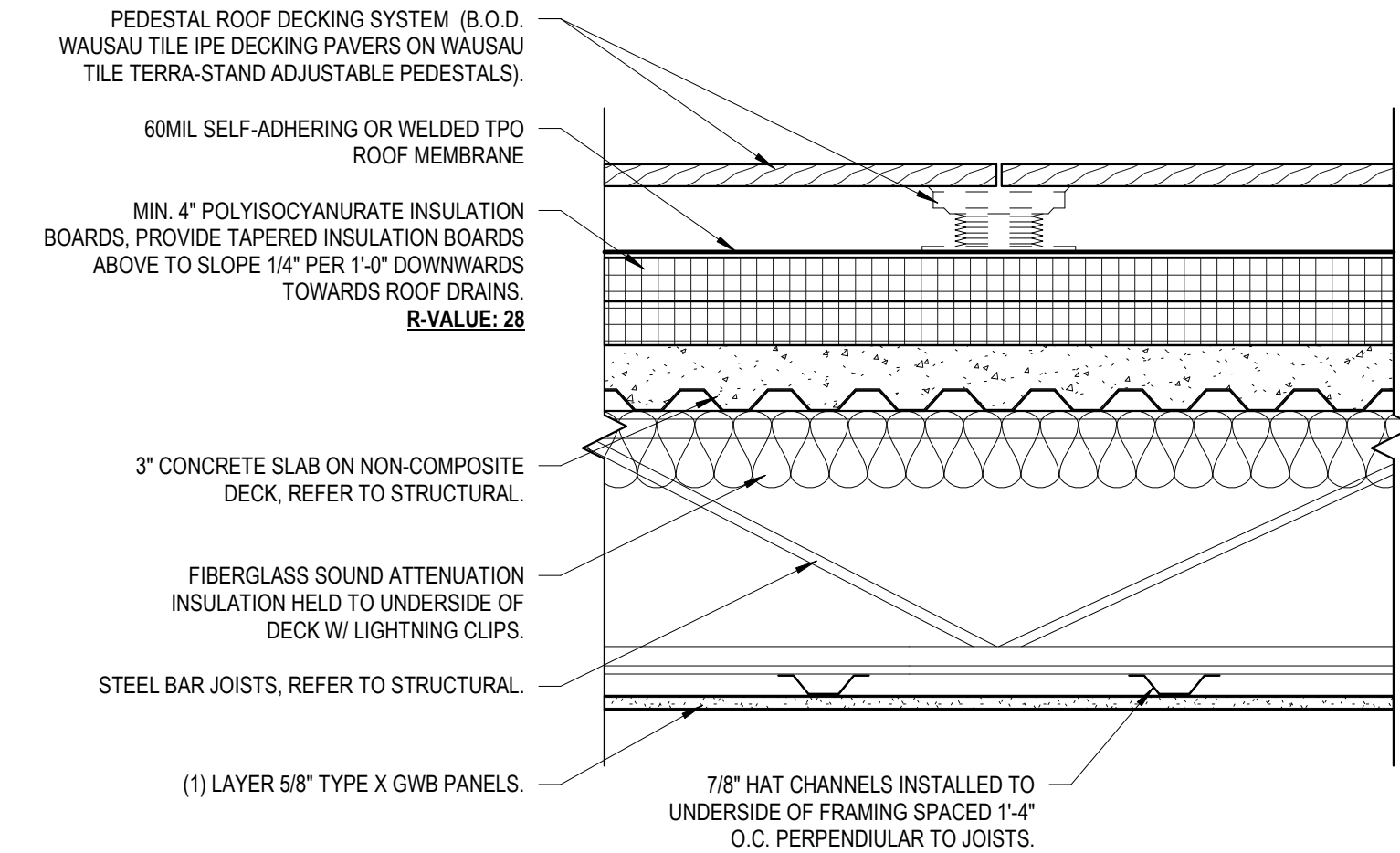


TITLE 3

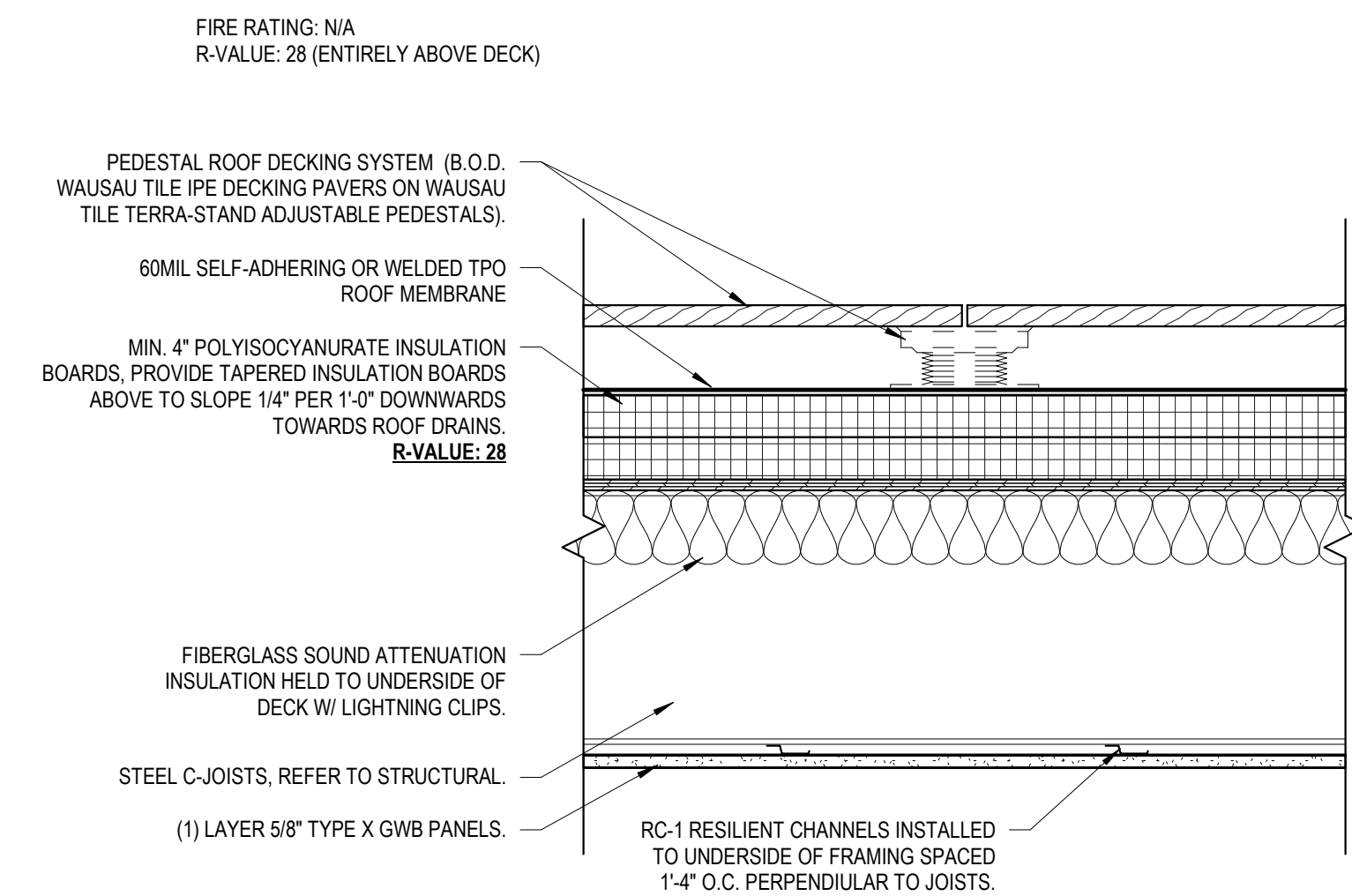


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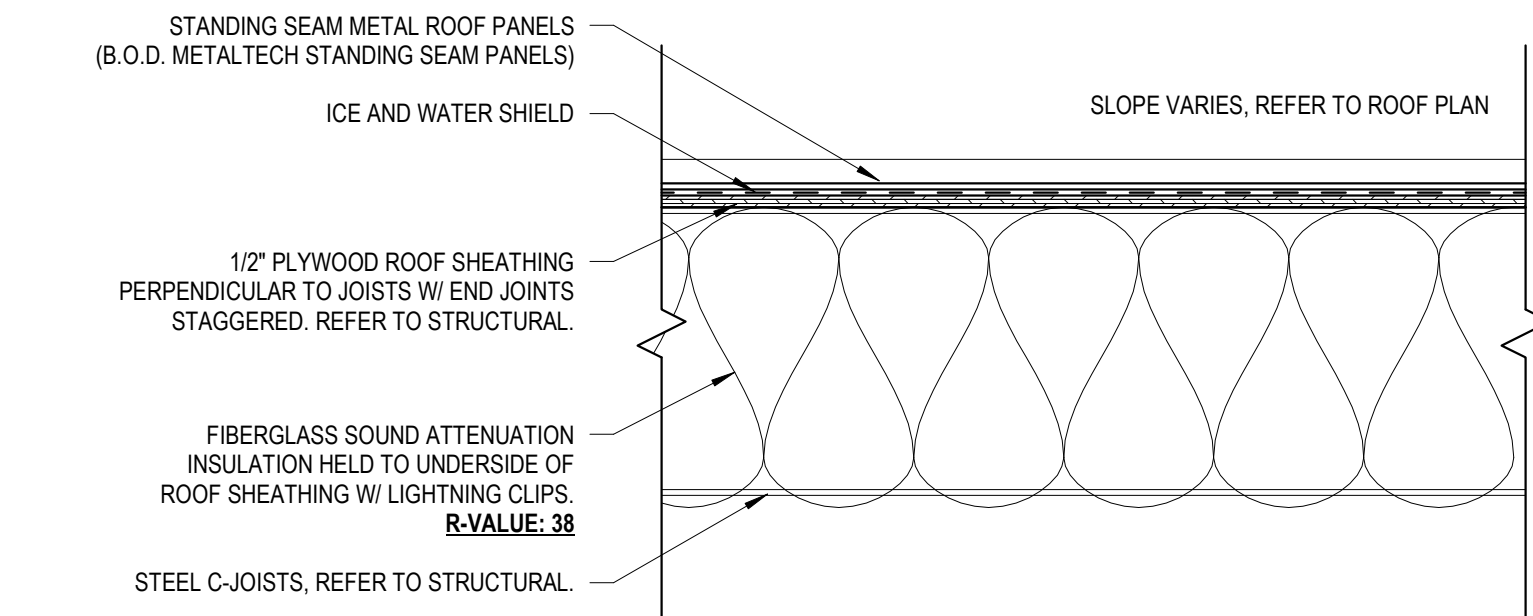
FIRE RATING: 2 HRS (PER 2018 IBC TABLE 721.1(3))
R-VALUE: 28 (ENTIRELY ABOVE DECK)



SUBTYPES	TYPE 1.1 - SIM. TO TYPE 1 BUT WITH STEEL C-JOISTS IN LIEU OF STEEL BAR JOISTS
----------	---



FIRE RATING: N/A
R-VALUE: 38 (ATTIC)



ROOF TOP ADDITION

AT
408 MARTIN LUTHER KING JR. BLVD.

CONSTRUCTION SUBSYSTEMS

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CONTRACT DATE

REVISIONS

NO.	DESCRIPTION	DATE

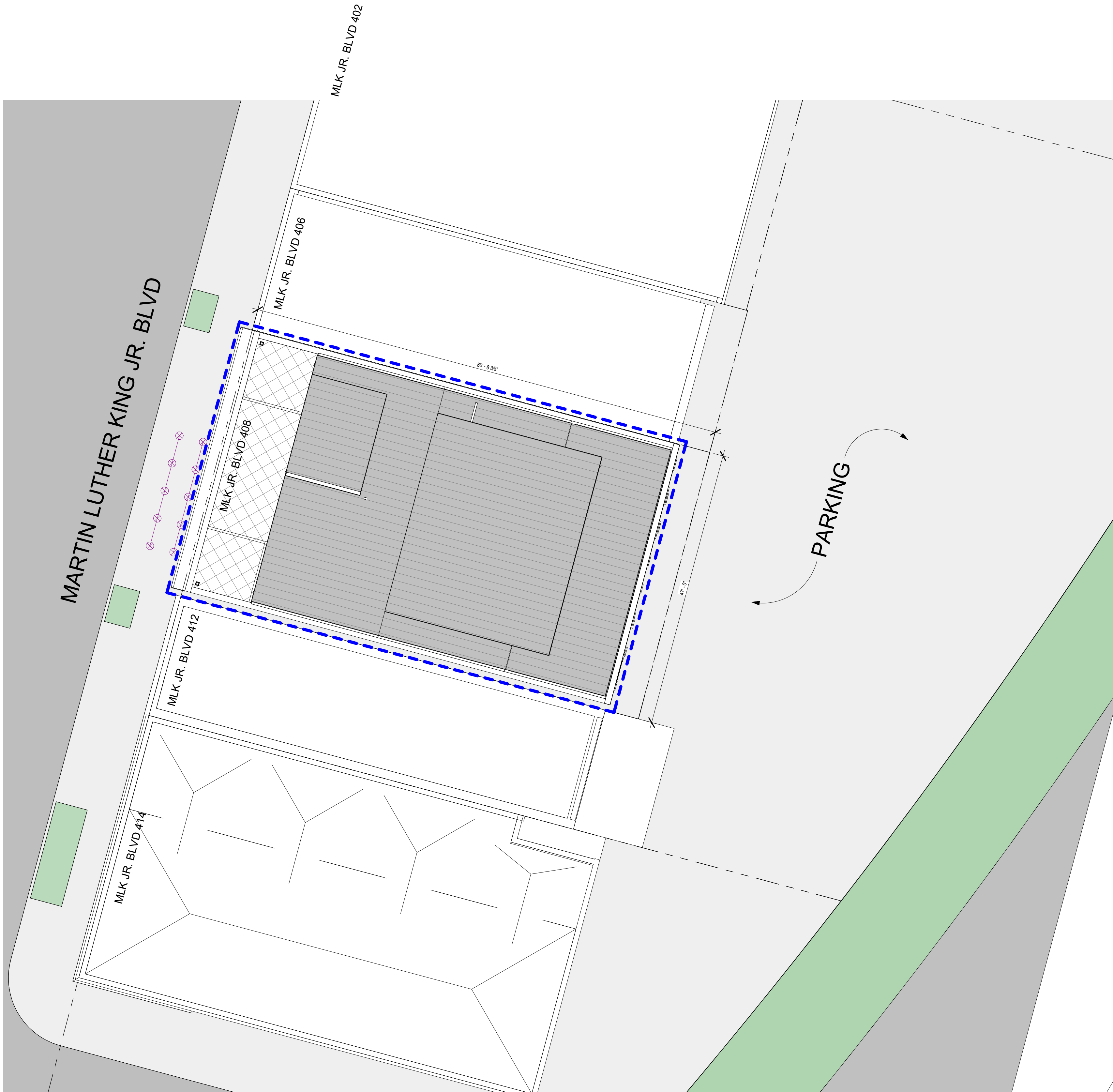
ISSUE DATE

2024.01.29

CURRENT DRAWING STATUS

CONSTRUCTION
DOCUMENTS

A-002



LOT SIZE: 3,760 SQ. FT.
EXISTING BUILDING FOOTPRINT: 3,525 SQ. FT.
PROPOSED BUILDING FOOTPRINT: EXISTING FOOTPRINT TO REMAIN

EXISTING BUILDING COVERAGE: 94%
PROPOSED BUILDING COVERAGE: EXISTING COVERAGE TO REMAIN

I-16



SAGIS ZONING MAP PIN: 20031 36007

ROOF TOP ADDITION
AT
408 MARTIN LUTHER KING JR. BLVD.
ARCHITECTURAL SITE PLAN

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DOCUMENTS

FLOOR PLAN TYP. NOTES

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7. FIELD VERIFY ALL DIMENSIONS FOR CASEWORK, MILLWORK, AND BUILT-INS PRIOR TO FABRICATION / INSTALLATION.
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9. REFER TO TYPICAL ASSEMBLY DETAILS PROVIDED ON CONSTRUCTION SUBSYSTEM SHEET ALONGSIDE UNDERWRITERS LABORATORIES, INC. FIRE RESISTANCE VOLUMES FOR SPECIFIC CONSTRUCTION REQUIREMENTS OF UL LISTED ASSEMBLIES.
10. WHERE PARTITIONS OF DIFFERENT FIRE-RESISTANCE RATINGS INTERSECT, THE PARTITION WITH A HIGHER RATING SHALL CONTINUE THROUGH.
11. REFER TO MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS FOR TYPICAL UL LISTED PENETRATIONS THROUGH FIRE-RATED ASSEMBLIES. GC SHALL BE RESPONSIBLE FOR PROVIDING APPROPRIATE PROJECT-SPECIFIC UL LISTED ASSEMBLIES FOR PENETRATIONS.
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PARTITION NOTES

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2. PROVIDE 5/8" MRGWB IN WET LOCATIONS (BATHROOMS, KITCHENS, ETC.) AND 5/8" CEMENTITIOUS BACKER BOARD WHERE TILE IS SPECIFIED IN LEIU OF GWB.
3. ALL PARTITIONS ARE TO CONTINUE TO THE UNDERSIDE OF FLOORCEILING ASSEMBLY ABOVE.

FLOOR PLAN KEYNOTES

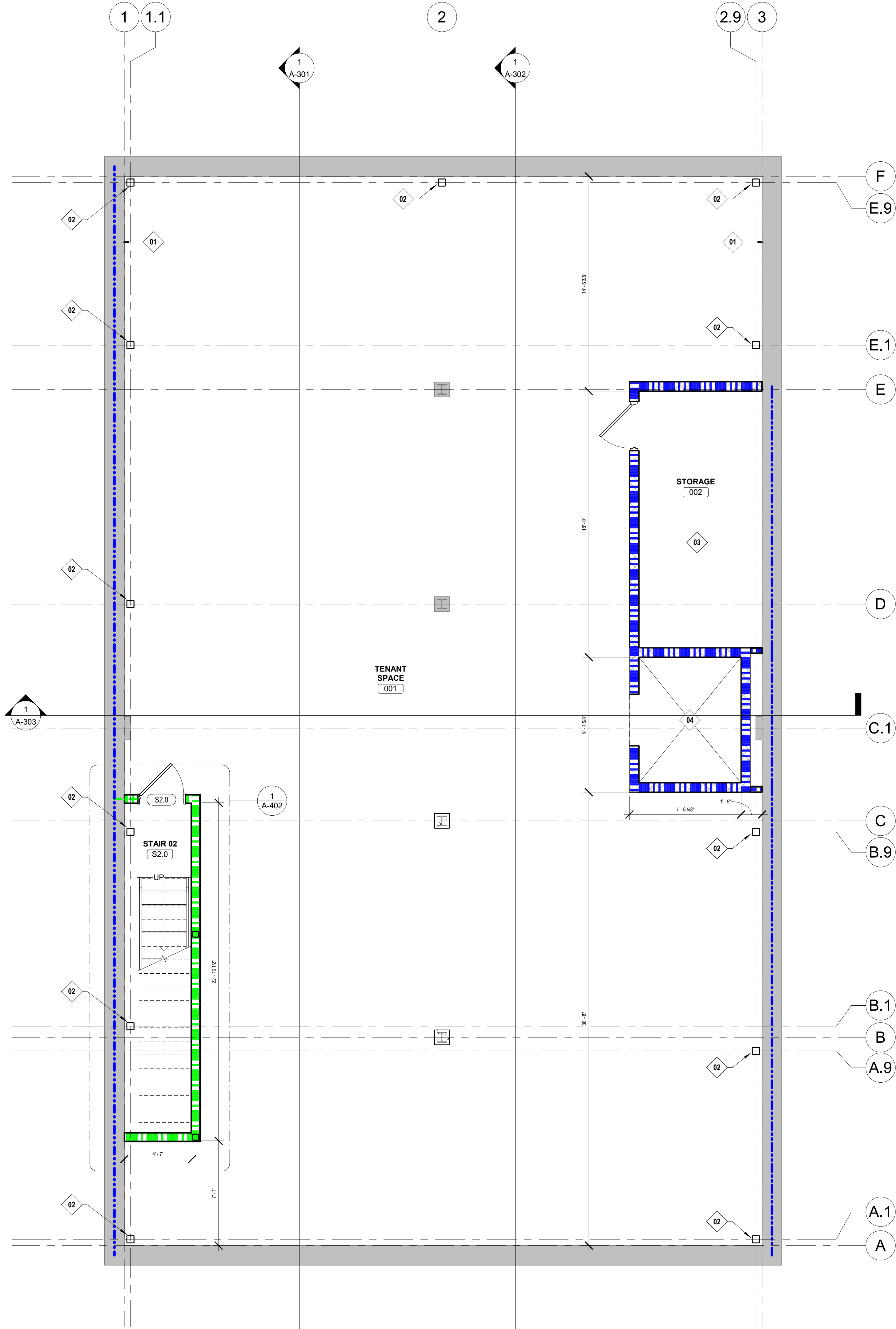
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PLAN LEGEND

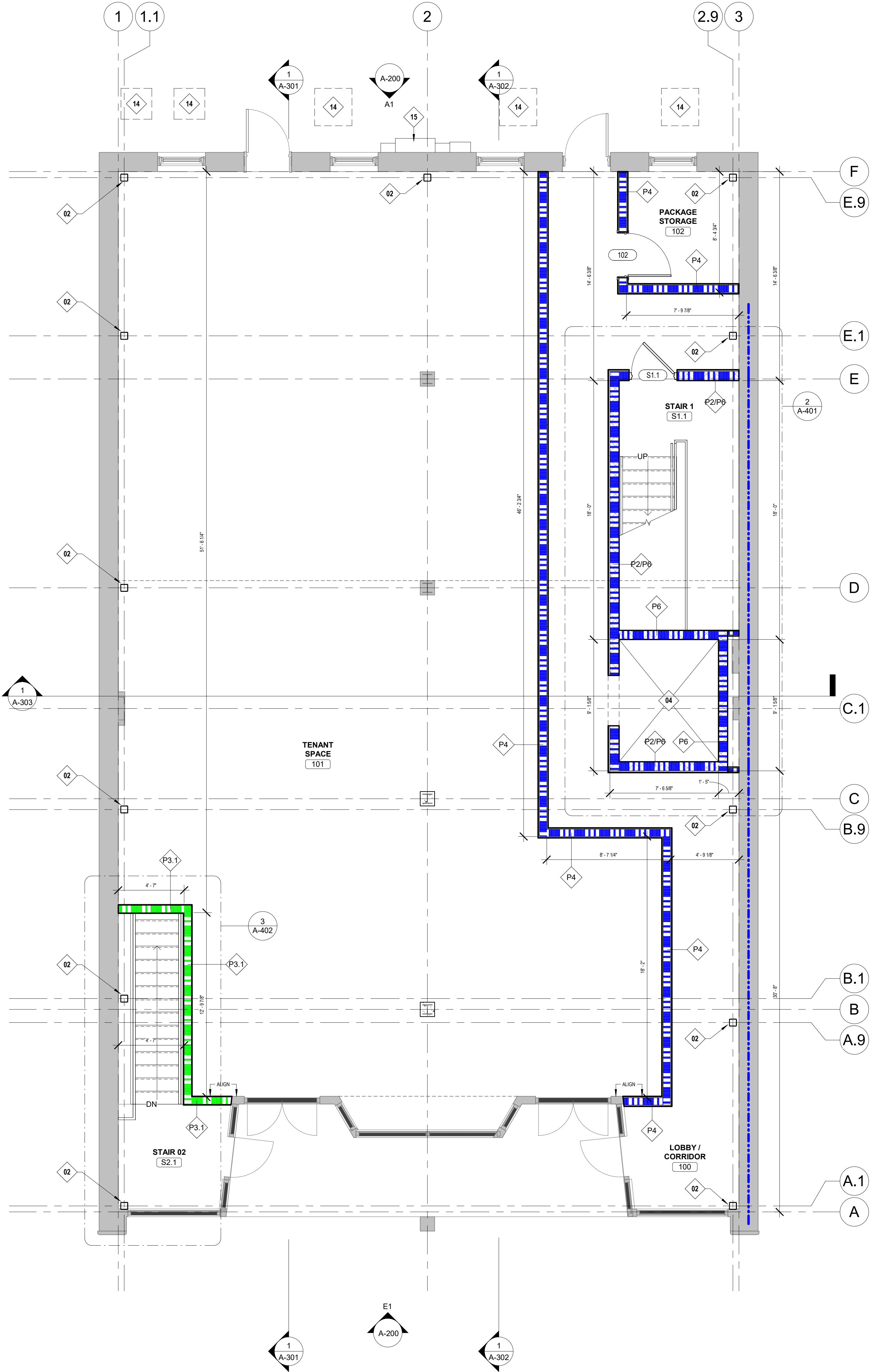
- 1 HR REQUIRED FIRE SEPARATION
- 2 HR REQUIRED FIRE SEPARATION
- 3 HR REQUIRED FIRE SEPARATION
- 4 HR REQUIRED FIRE SEPARATION
- EXISTING CONSTRUCTION
- NEW CONSTRUCTION

SEE SHEET A-002 FOR CONSTRUCTION OF PARTITION TYPES.

1 BASEMENT FLOOR PLAN
1/4" = 1'-0"



2 FIRST FLOOR PLAN
1/4" = 1'-0"



J.ELDER
STUDIO ©

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30 W. Broughton Street,
Suite 201
Savannah, Georgia 31401
P 646.619.7494

ROOF TOP ADDITION
AT

408 MARTIN LUTHER KING JR. BLVD.

BASEMENT AND FIRST FLOOR PLAN

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CURRENT DRAWING STATUS
CONSTRUCTION
DOCUMENTS

A-101

FLOOR PLAN TYP. NOTES

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FLOOR PLAN KEYNOTES

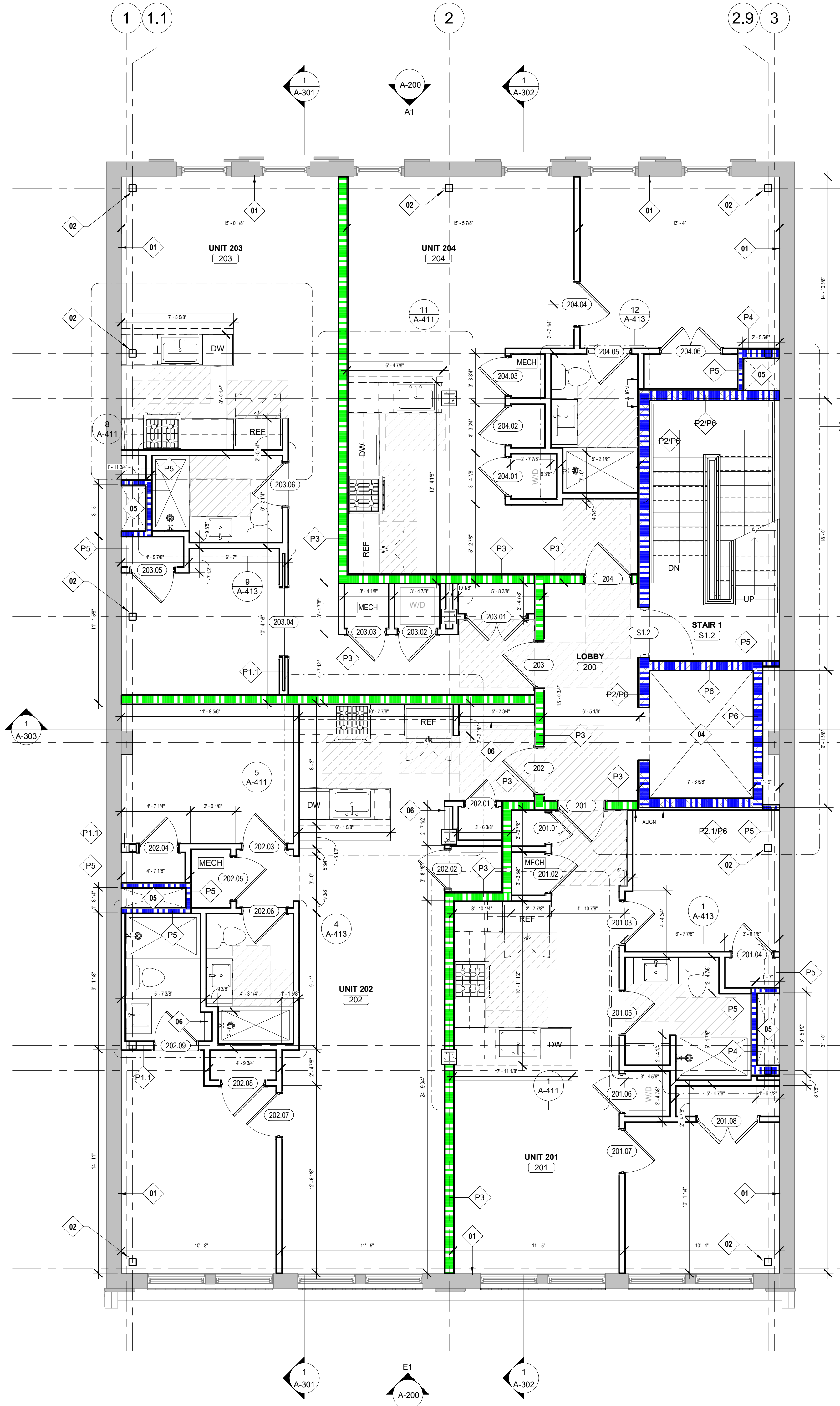
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PLAN LEGEND

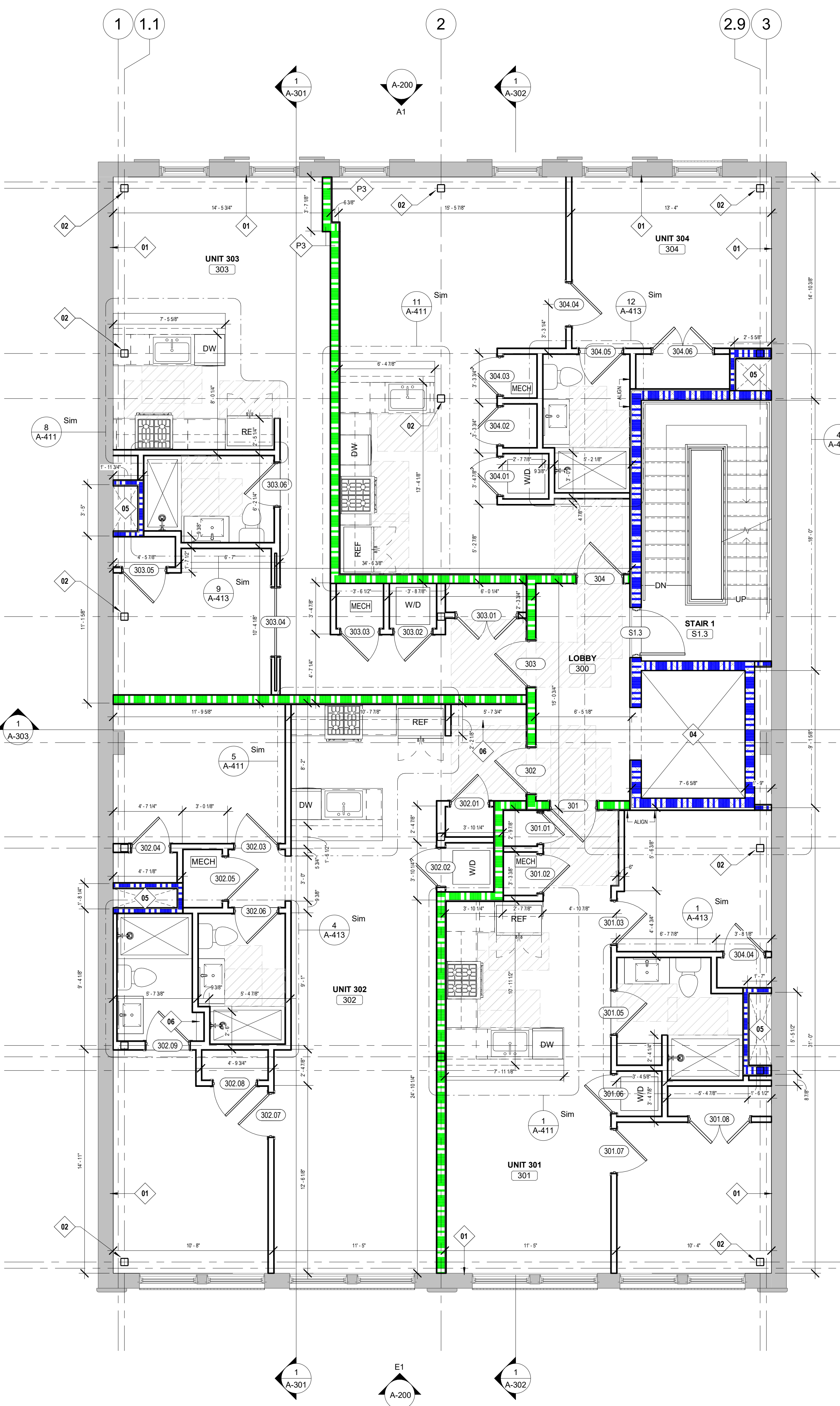
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- 3 HR REQUIRED FIRE SEPARATION
- 4 HR REQUIRED FIRE SEPARATION
- EXISTING CONSTRUCTION
- NEW CONSTRUCTION

SEE SHEET A-002 FOR CONSTRUCTION OF PARTITION TYPES.

1 SECOND FLOOR PLAN
1/4" = 1'-0"



2 THIRD FLOOR PLAN
1/4" = 1'-0"



J.ELDER
STUDIO ©

www.jelderstudio.com
30 W. Broughton Street,
Suite 201
Savannah, Georgia 31401
P 646.619.7494

ROOF TOP ADDITION
AT

408 MARTIN LUTHER KING JR. BLVD.

SECOND AND THIRD FLOOR PLAN

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DOCUMENTS

A-102

FLOOR PLAN TYP. NOTES

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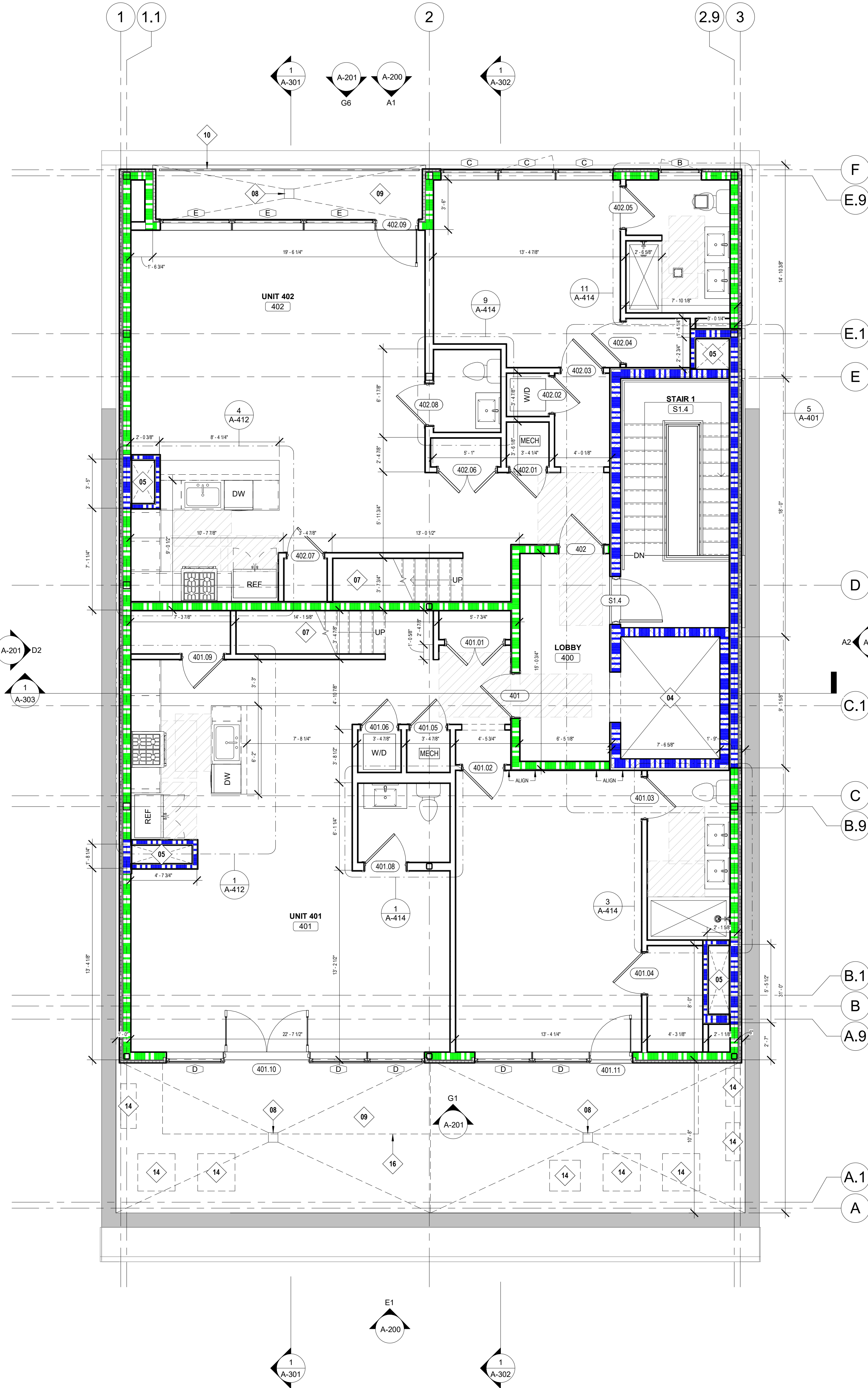
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- HVAC EQUIPMENT. REFER TO MECHANICAL DRAWINGS FOR SPECIFICATIONS AND EXACT LOCATIONS.
- ELECTRICAL EQUIPMENT. REFER TO ELECTRICAL DRAWINGS FOR SPECIFICATIONS AND EXACT LOCATIONS.
- MECHANICAL EQUIPMENT SCREENING (B.O.D. ROOFSCREEN L1 FRAME W/ SQUARE POST SUPPORTS). CLAD FRAME IN STAINED WOOD SLATS TO MATCH ACCOYA. WOOD CLADDING AT COVERED PATIO INTERIORS.

PLAN LEGEND

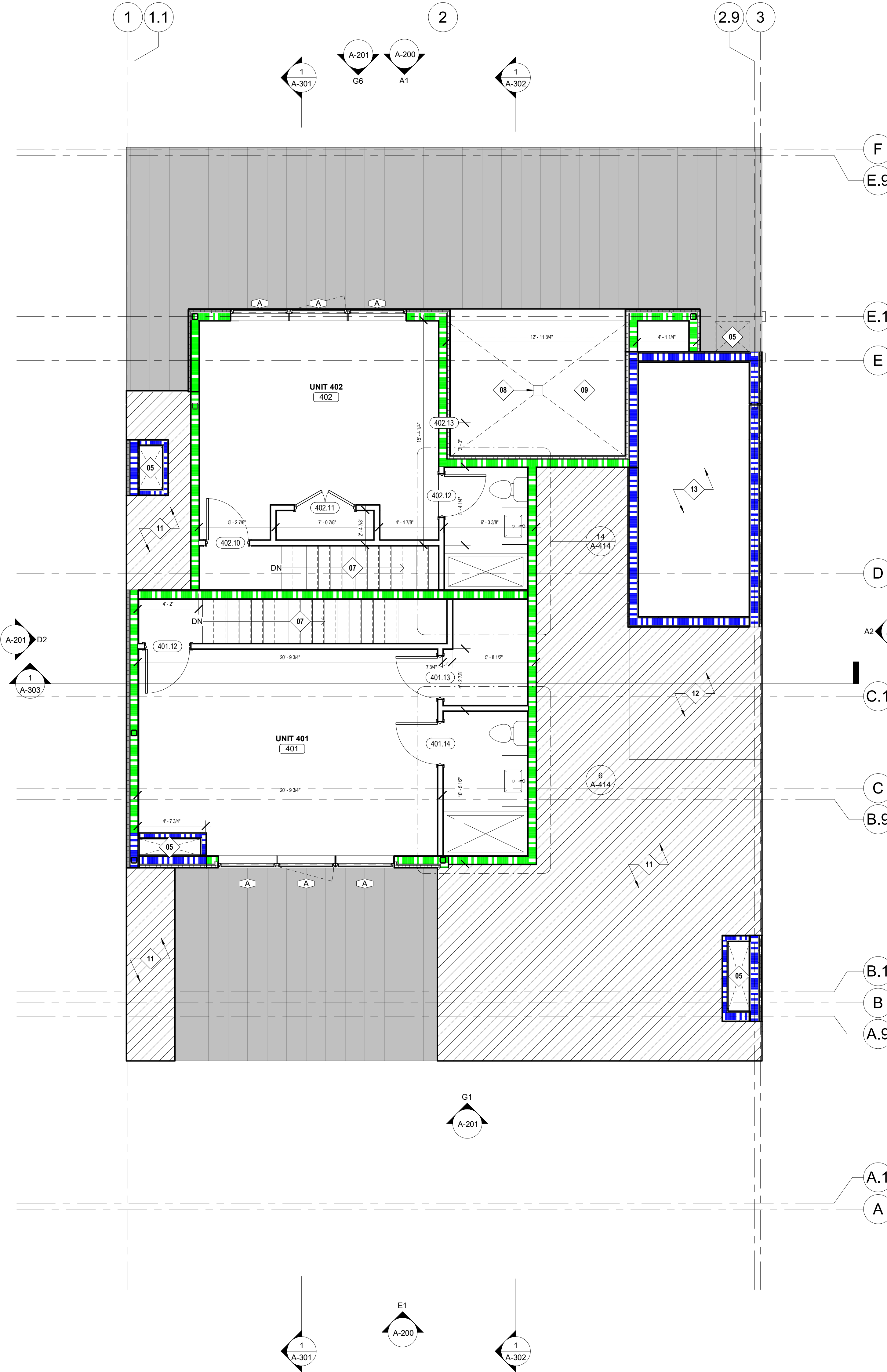
- 1 HR REQUIRED FIRE SEPARATION
- 2 HR REQUIRED FIRE SEPARATION
- 3 HR REQUIRED FIRE SEPARATION
- 4 HR REQUIRED FIRE SEPARATION
- EXISTING CONSTRUCTION
- NEW CONSTRUCTION

SEE SHEET A-002 FOR CONSTRUCTION OF PARTITION TYPES.

1 FOURTH FLOOR PLAN
1/4" = 1'-0"



2 MEZZANINE FLOOR PLAN
1/4" = 1'-0"



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ROOF TOP ADDITION
AT

408 MARTIN LUTHER KING JR. BLVD.

FOURTH FLOOR AND MEZZANINE PLAN

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CURRENT DRAWING STATUS
CONSTRUCTION
DOCUMENTS

A-103

RCP TYP. NOTES

- REFER TO TYPICAL ASSEMBLIES PROVIDED ON CONSTRUCTION SUBSYSTEM SHEET FOR WALL, PARTITION, FLOOR/CEILING, AND ROOF TYPES. REFER TO FINISH PLANS AND SCHEDULE FOR WALL FINISHES.
- ALL DIMENSIONS DRAWN TO LOCATE FIXTURES ARE MEASURED FROM THE FINISH FACE OF WALLS AND PARTITIONS.
- LIGHT FIXTURES, HVAC DISTRIBUTION, EXIT SIGNS, ETC. ARE SHOWN FOR REFERENCE TO DESIGN INTENT. REFER TO MECHANICAL AND ELECTRICAL DRAWINGS FOR SPECIFICATIONS AND ADDITIONAL INFORMATION AND INFORM ARCHITECT OF ANY DISCREPANCIES.
- REFER TO ELECTRICAL AND FIRE PROTECTION DRAWINGS AND COORDINATE WITH OWNER/ARCHITECT ON THE INSTALLATION OF SPECIAL SYSTEMS, SMOKE DETECTORS, SPEAKERS, CAMERAS, ETC. THAT ARE NOT SHOWN ON THE REFLECTED CEILING PLANS. CONFIRM FINAL LOCATIONS WITH OWNER/ARCHITECT PRIOR TO INSTALLATION OF THESE ITEMS.
- EXTEND WALLS AND FINISHES TO STRUCTURE ABOVE IN AREAS DESIGNATED TO HAVE EXPOSED STRUCTURE. PAINT ALL EXPOSED HVAC DISTRIBUTION, CONDUIT, PIPING, HANGERS, ETC.
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- CEILING GRIDS / TILES TO BE CENTERED IN ALL ROOMS UNLESS NOTED OTHERWISE. PARTIAL TILES AT ROOM PERIMETERS SHALL NOT BE LESS THAN 6" IN EITHER DIMENSION.
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- PROVIDE 5/8" MCGWB IN WET LOCATIONS (BATHROOMS, KITCHENS, ETC.) AND 5/8" CEMENTITIOUS BACKER BOARD WHERE TILE IS SPECIFIED IN LIEU OF GWB.

RCP KEYNOTES

- CEILING IS TO REMAIN OPEN TO THE STRUCTURE ABOVE WITH THE POTENTIAL OF CEILING MATERIAL TO BE ADDED AS PART OF LATER TENANT UPRIT PHASE.
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- ROOF ACCESS LADDER AND HATCH

RCP LEGEND

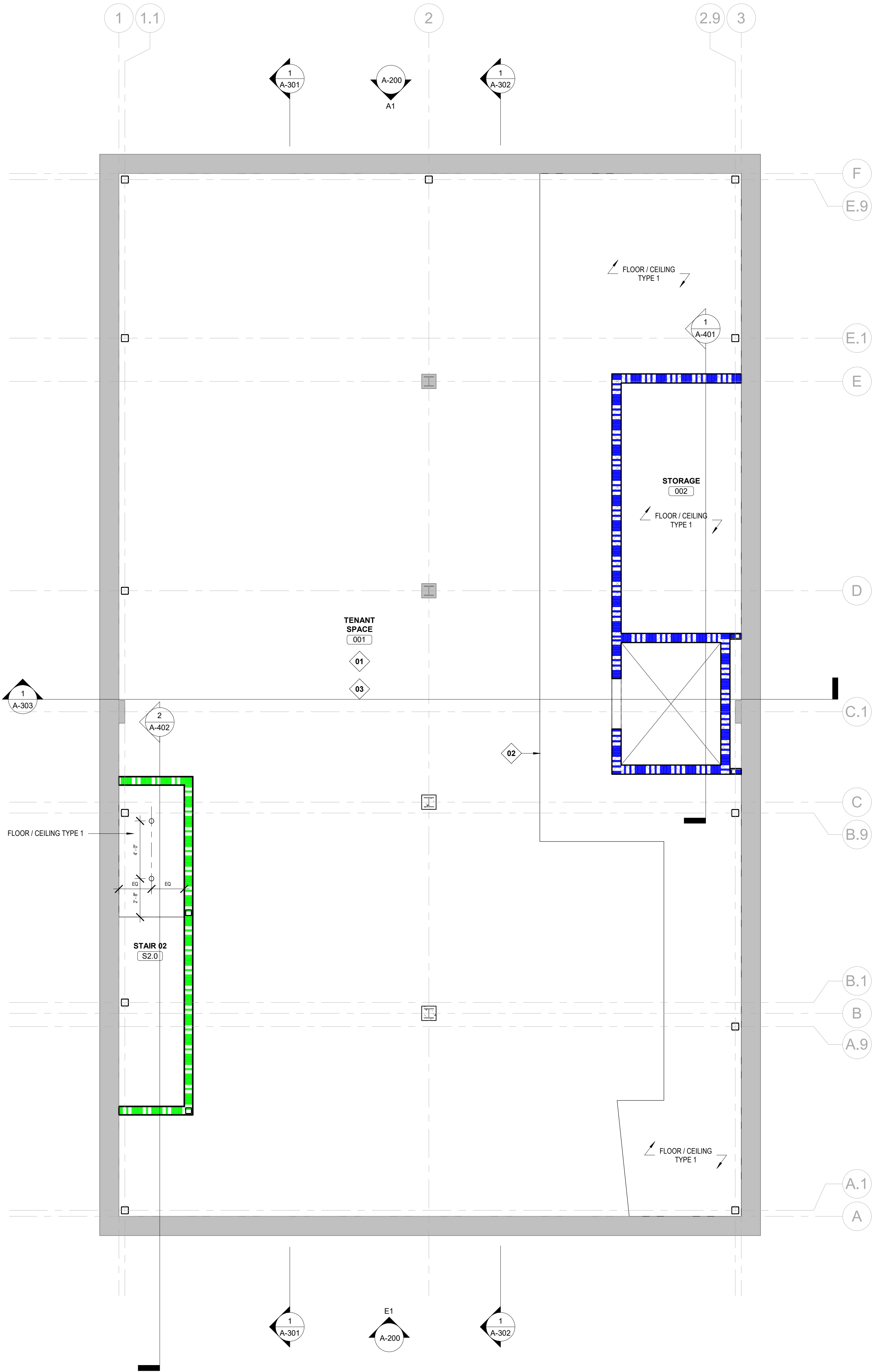
- 4" LED DOWNLIGHT
- SMALL DECORATIVE LED PENDANT BY OWNER
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PLAN LEGEND

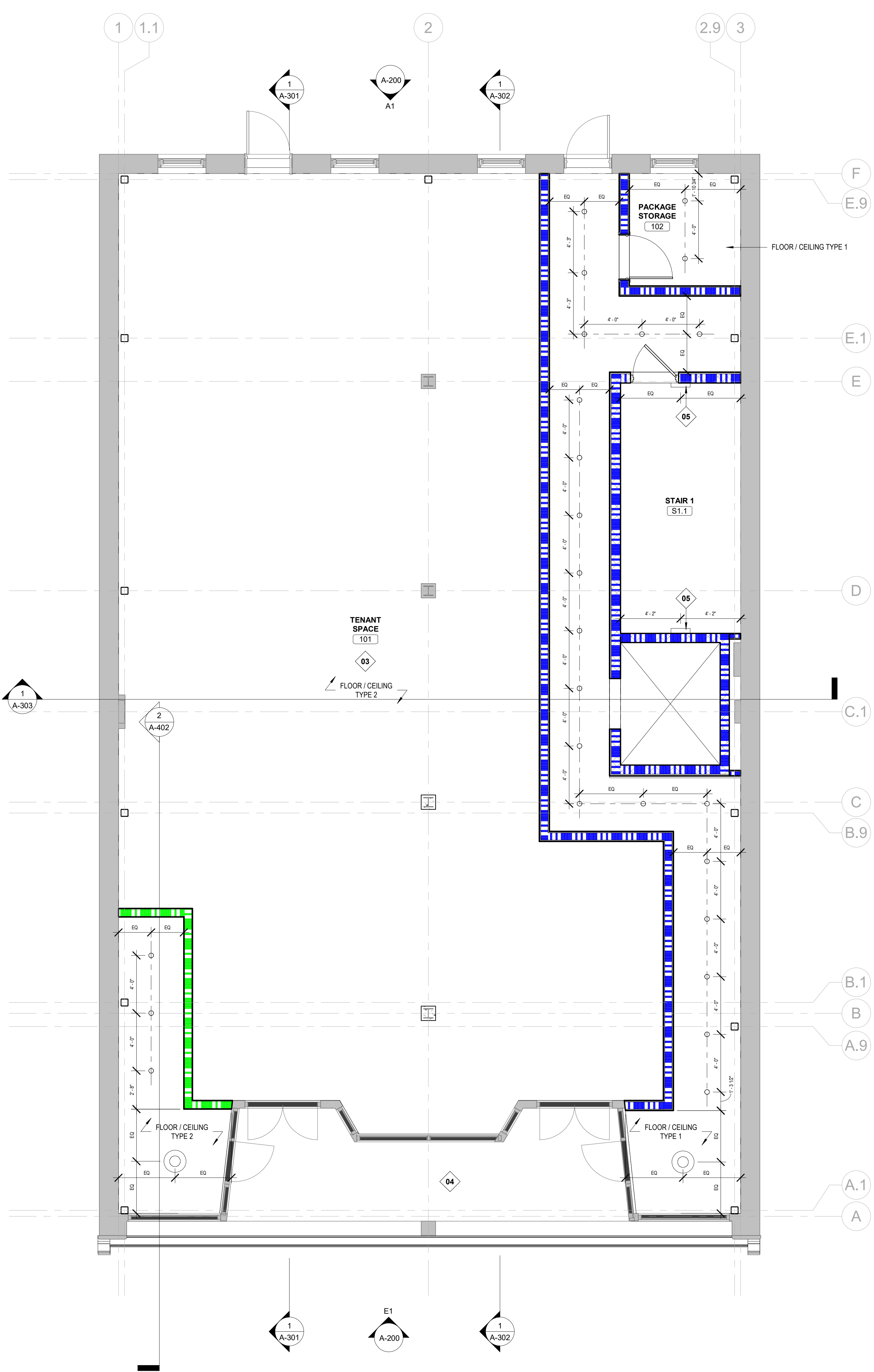
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SEE SHEET A-002 FOR CONSTRUCTION OF PARTITION TYPES.

1 BASEMENT RCP
1/4" = 1'-0"



2 FIRST FLOOR RCP
1/4" = 1'-0"



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ROOF TOP ADDITION

AT

408 MARTIN LUTHER KING JR. BLVD.

BASEMENT AND FIRST FLOOR RCP

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CONSTRUCTION
DOCUMENTS

A-111

RCP TYP. NOTES

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RCP LEGEND

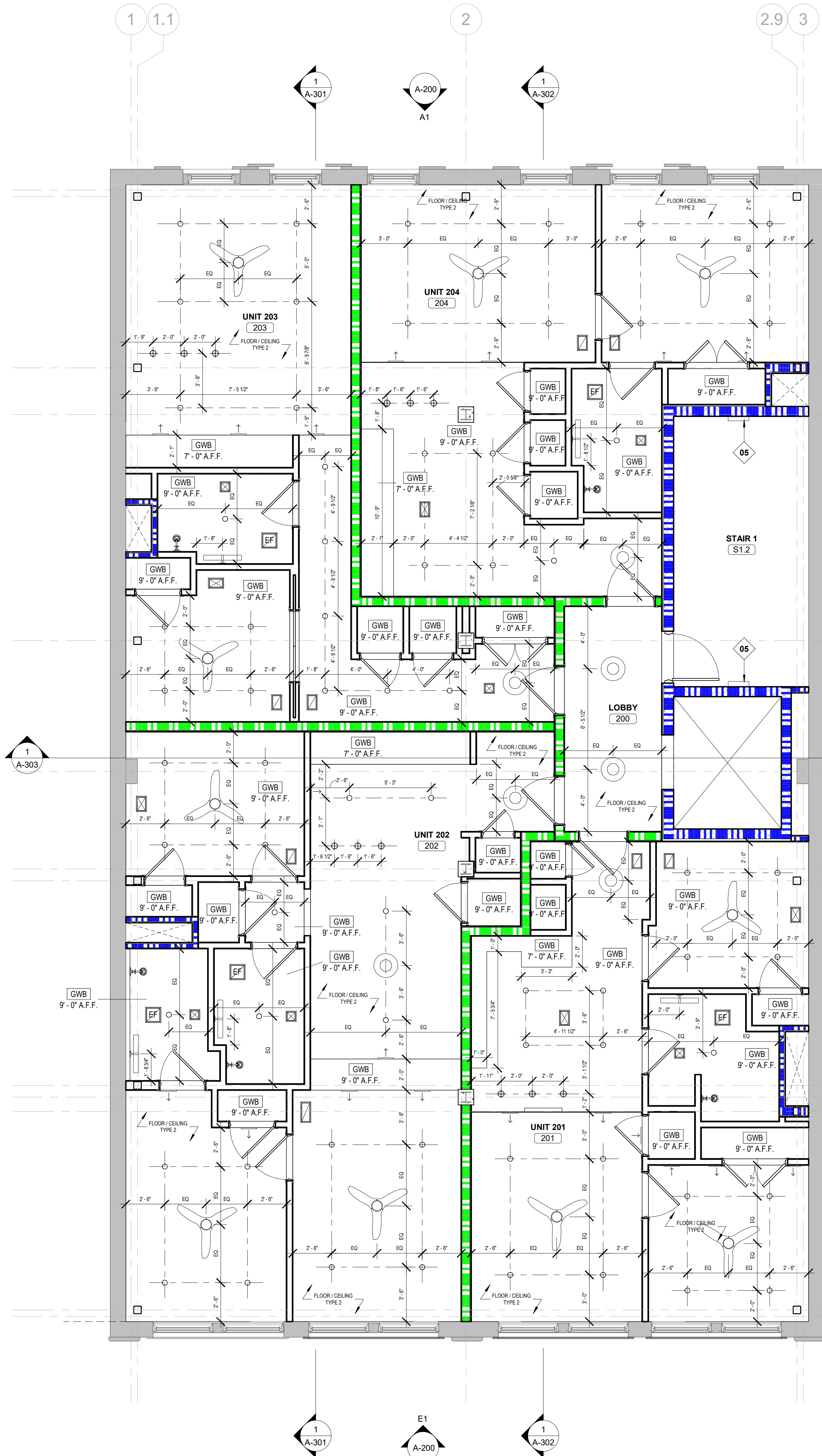
- 4" LED DOWNLIGHT
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PLAN LEGEND

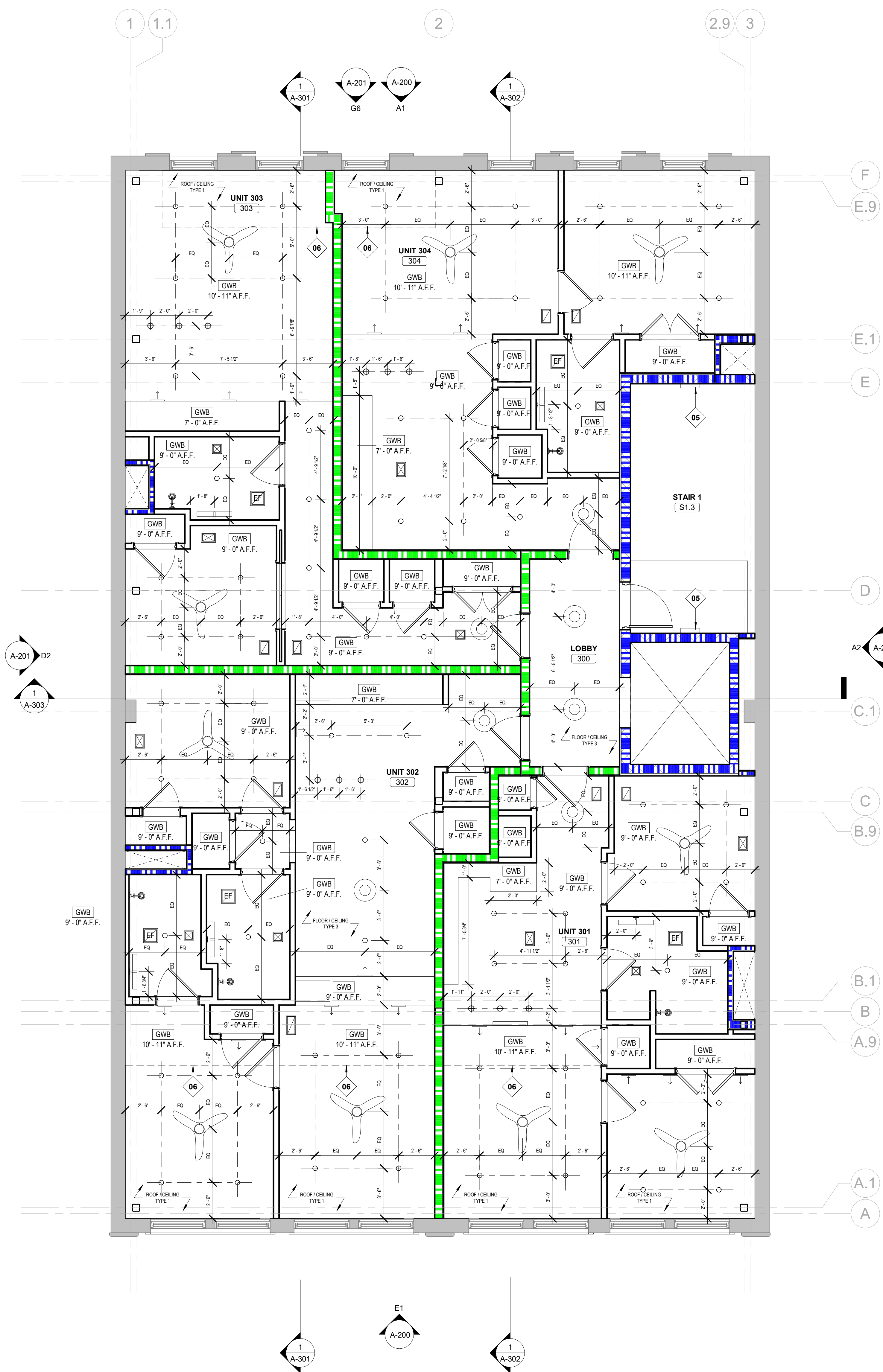
- 1 HR REQUIRED FIRE SEPARATION
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- EXISTING CONSTRUCTION
- NEW CONSTRUCTION

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1 SECOND FLOOR RCP
1/4" = 1'-0"



2 THIRD FLOOR RCP
1/4" = 1'-0"



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ROOF TOP ADDITION
AT

408 MARTIN LUTHER KING JR. BLVD.

SECOND AND THIRD FLOOR RCP

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RCP TYP. NOTES

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RCP LEGEND

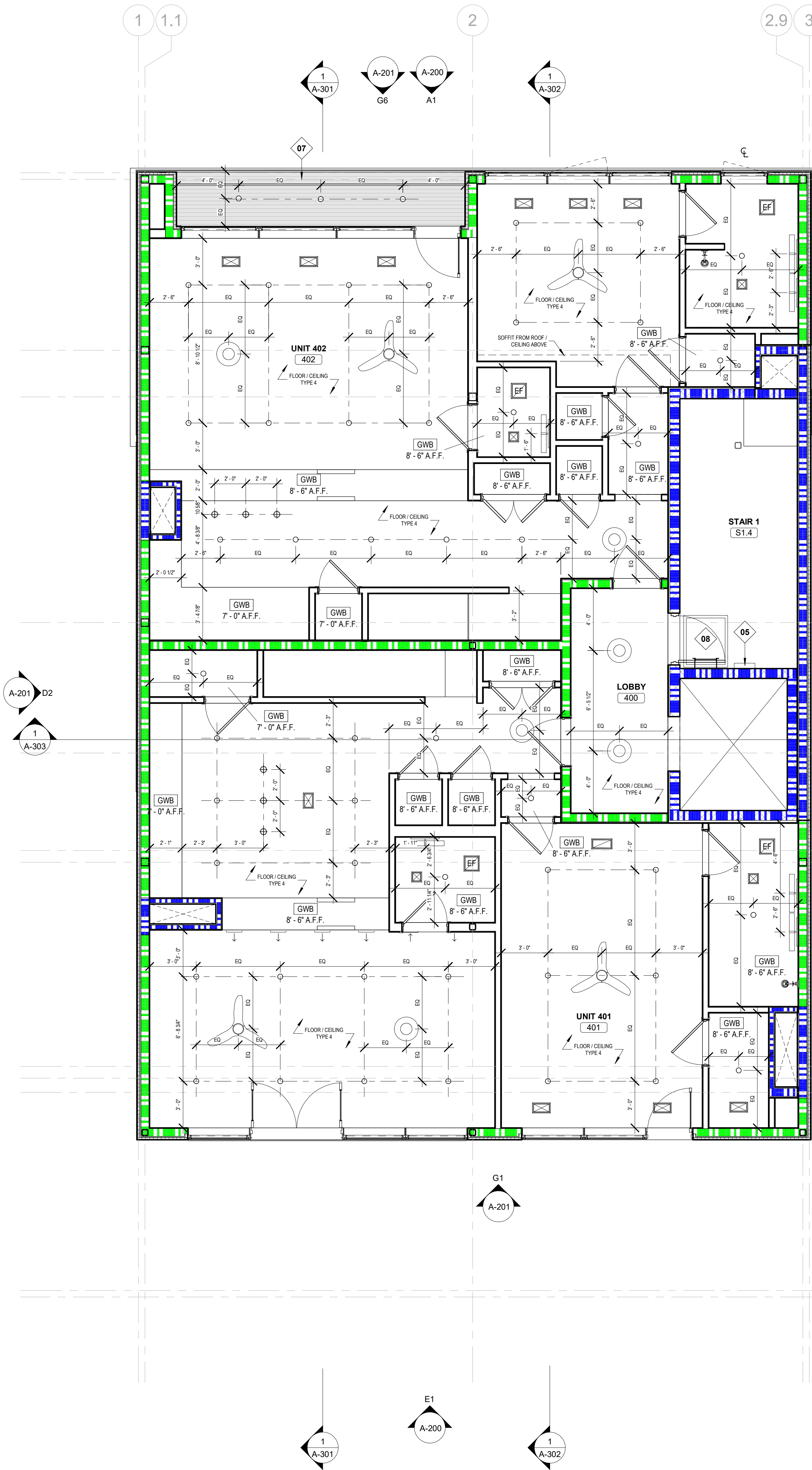
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PLAN LEGEND

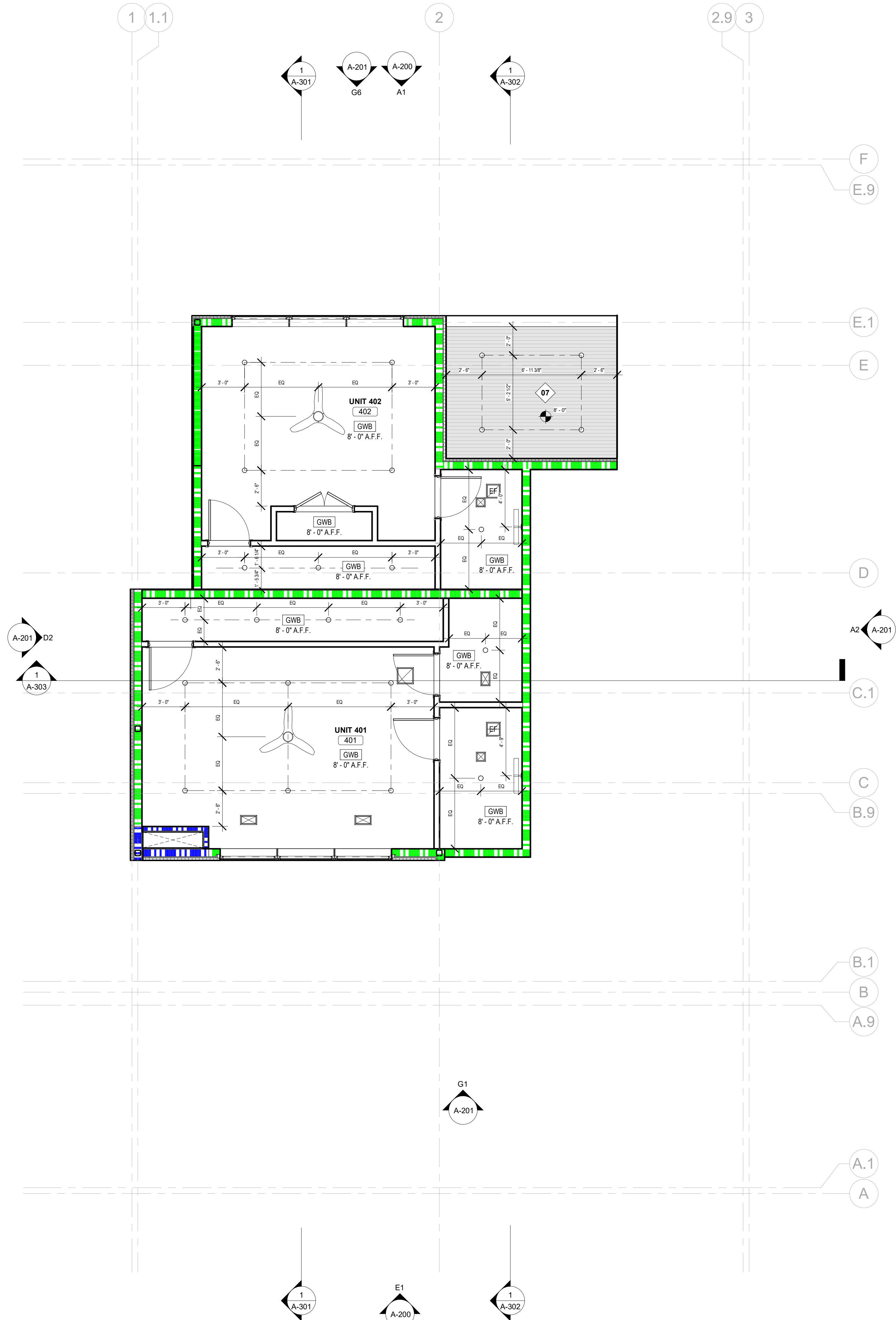
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2 MEZZANINE RCP
1/4" = 1'-0"



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ROOF TOP ADDITION
AT

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FOURTH FLOOR AND MEZZANINE RCP

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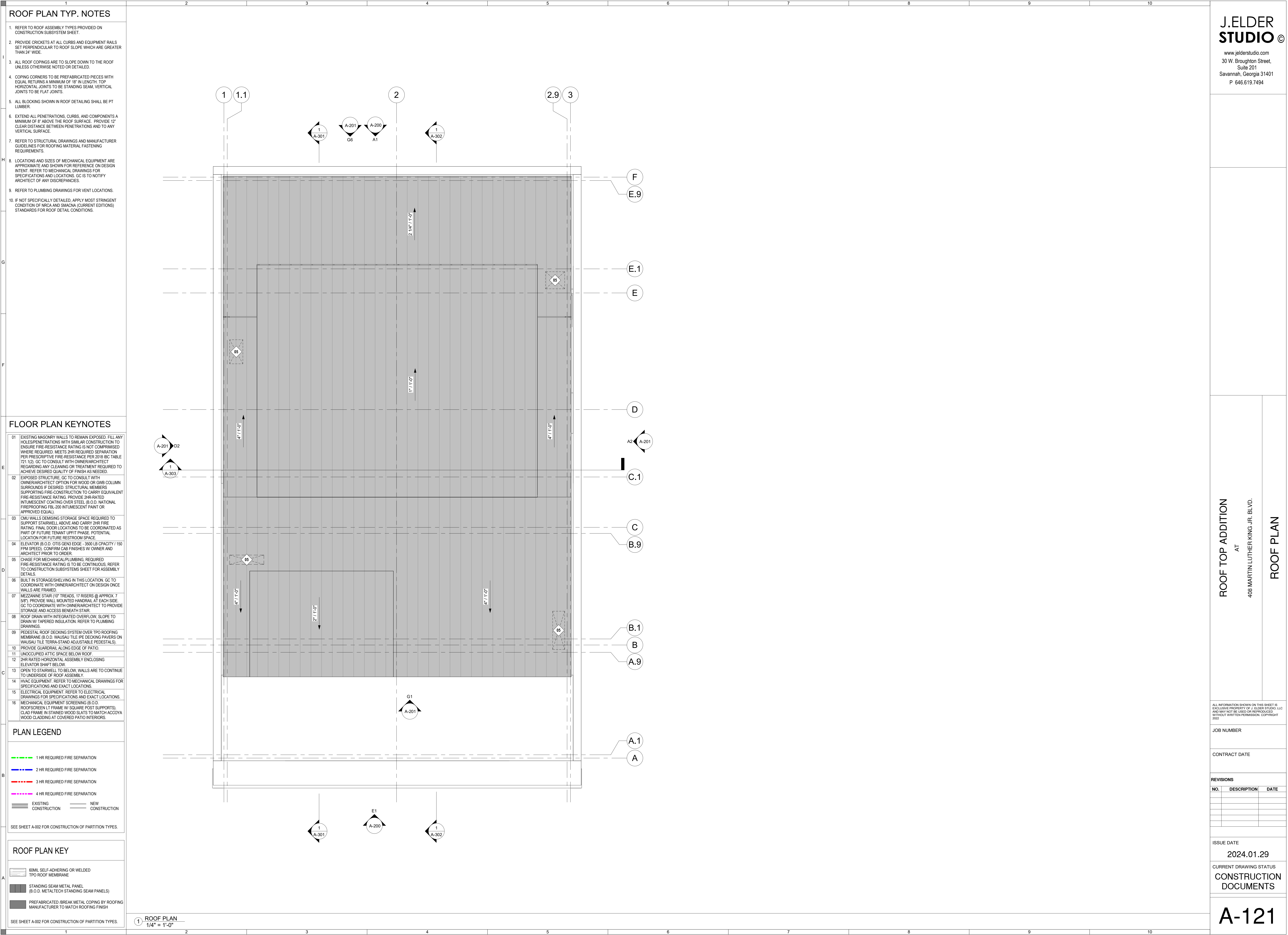
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CURRENT DRAWING STATUS
CONSTRUCTION
DOCUMENTS

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ROOF PLAN TYP. NOTES

1. REFER TO ROOF ASSEMBLY TYPES PROVIDED ON CONSTRUCTION SUBSYSTEM SHEET.

2. PROVIDE CRICKETS AT ALL CURBS AND EQUIPMENT RAILS SET PERPENDICULAR TO ROOF SLOPE WHICH ARE GREATER THAN 24" WIDE.

3. ALL ROOF COPINGS ARE TO SLOPE DOWN TO THE ROOF UNLESS OTHERWISE NOTED OR DETAILED.

4. COPING CORNERS TO BE PREFABRICATED PIECES WITH EQUAL RETURNS A MINIMUM OF 18" IN LENGTH. TOP HORIZONTAL JOINTS TO BE STANDING SEAM, VERTICAL JOINTS TO BE FLAT JOINTS.

5. ALL BLOCKING SHOWN IN ROOF DETAILING SHALL BE PT LUMBER.

6. EXTEND ALL PENETRATIONS, CURBS, AND COMPONENTS A MINIMUM OF 8" ABOVE THE ROOF SURFACE. PROVIDE 12" CLEAR DISTANCE BETWEEN PENETRATIONS AND TO ANY VERTICAL SURFACE.

7. REFER TO STRUCTURAL DRAWINGS AND MANUFACTURER GUIDELINES FOR ROOFING MATERIAL FASTENING REQUIREMENTS.

8. LOCATIONS AND SIZES OF MECHANICAL EQUIPMENT ARE APPROXIMATE AND SHOWN FOR REFERENCE ON DESIGN INTENT. REFER TO MECHANICAL DRAWINGS FOR SPECIFICATIONS AND LOCATIONS. GC IS TO NOTIFY ARCHITECT OF ANY DISCREPANCIES.

9. REFER TO PLUMBING DRAWINGS FOR VENT LOCATIONS.

10. IF NOT SPECIFICALLY DETAILED, APPLY MOST STRINGENT CONDITION OF IMCA AND SMACNA (CURRENT EDITIONS) STANDARDS FOR ROOF DETAIL CONDITIONS.

FLOOR PLAN KEYNOTES

01 EXISTING MASONRY WALLS TO REMAIN EXPOSED. FILL ANY HOLES/PENETRATIONS WITH SIMILAR CONSTRUCTION TO ENSURE FIRE-RESISTANCE RATING IS NOT COMPROMISED WHERE REQUIRED. MEETS 2HR REQUIRED SEPARATION PER PRESCRIPTIVE FIRE-RESISTANCE PER 2018 IBC TABLE 721.1(2). GC TO CONSULT WITH OWNER/ARCHITECT REGARDING ANY CLEANING OR TREATMENT REQUIRED TO ACHIEVE DESIRED QUALITY OF FINISH AS NEEDED.

02 EXPOSED STRUCTURE. GC TO CONSULT WITH OWNER/ARCHITECT OPTION FOR WOOD OR GIBS COLUMN SURROUNDS IF DESIRED. STRUCTURAL MEMBERS SUPPORTING FIRE CONSTRUCTION TO CARRY EQUIVALENT FIRE-RESISTANCE RATING. PROVIDE 2HR RATED INTUMESCENT COATING OVER STEEL (B.O.D. NATIONAL FIREPROOFING FBL-200 INTUMESCENT PAINT OR APPROVED EQUAL).

03 CMU WALLS DEMISING STORAGE SPACE REQUIRED TO SUPPORT STAIRWELL ABOVE AND CARRY 2HR FIRE RATING. FINAL DOOR LOCATIONS TO BE COORDINATED AS PART OF FUTURE TENANT UPRIT PHASE. POTENTIAL LOCATION FOR FUTURE RESTROOM SPACE.

04 ELEVATOR (B.O.D. OTIS GEN3 EDGE - 3500 LB CAPACITY / 150 FPM SPEED). CONFIRM CAB FINISHES W/ OWNER AND ARCHITECT PRIOR TO ORDER.

05 CHASE FOR MECHANICAL/PLUMBING. REQUIRED FIRE-RESISTANCE RATING IS TO BE CONTINUOUS. REFER TO CONSTRUCTION SUBSYSTEM SHEET FOR ASSEMBLY DETAILS.

06 BUILT IN STORAGE/SHELVING IN THIS LOCATION. GC TO COORDINATE WITH OWNER/ARCHITECT ON DESIGN ONCE WALLS ARE FRAMED.

07 MEZZANINE STAIR (10' TREADS, 17 RISERS @ APPROX. 7 5/8"). PROVIDE WALL MOUNTED HANDRAIL AT EACH SIDE. GC TO COORDINATE WITH OWNER/ARCHITECT TO PROVIDE STORAGE AND ACCESS BENEATH STAIR.

08 ROOF DRAIN WITH INTEGRATED OVERFLOW. SLOPE TO DRAIN W/ APERED INSULATION. REFER TO PLUMBING DRAWINGS.

09 PEDESTAL ROOF DECKING SYSTEM OVER TPO ROOFING MEMBRANE (B.O.D. WAUSAU TILE IPE DECKING PAVERS ON WAUSAU TILE TERRA-STAND ADJUSTABLE PEDESTALS).

10 PROVIDE GUARDRAIL ALONG EDGE OF PATIO.

11 UNOCCUPIED ATTIC SPACE BELOW ROOF.

12 2HR RATED HORIZONTAL ASSEMBLY ENCLOSING ELEVATOR SHAFT BELOW.

13 OPEN TO STAIRWELL TO BELOW. WALLS ARE TO CONTINUE TO UNDERSIDE OF ROOF ASSEMBLY.

14 HVAC EQUIPMENT. REFER TO MECHANICAL DRAWINGS FOR SPECIFICATIONS AND EXACT LOCATIONS.

15 ELECTRICAL EQUIPMENT. REFER TO ELECTRICAL DRAWINGS FOR SPECIFICATIONS AND EXACT LOCATIONS.

16 MECHANICAL EQUIPMENT SCREENING (B.O.D. ROOFSCREEN 1.1 FRAME W/ SQUARE POST SUPPORTS). CLAD FRAME IN STAINED WOOD SLATS TO MATCH ACCOYA WOOD CLADDING AT COVERED PATIO INTERIORS.

PLAN LEGEND

--- 1 HR REQUIRED FIRE SEPARATION

--- 2 HR REQUIRED FIRE SEPARATION

--- 3 HR REQUIRED FIRE SEPARATION

--- 4 HR REQUIRED FIRE SEPARATION

EXISTING CONSTRUCTION NEW CONSTRUCTION

SEE SHEET A-002 FOR CONSTRUCTION OF PARTITION TYPES.

ROOF PLAN KEY

6MIL SELF-ADHERING OR WELDED TPO ROOF MEMBRANE

STANDING SEAM METAL PANEL (B.O.D. METALTECH STANDING SEAM PANELS)

PREFABRICATED BREAK METAL COPING BY ROOFING MANUFACTURER TO MATCH ROOFING FINISH

SEE SHEET A-002 FOR CONSTRUCTION OF PARTITION TYPES.

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ROOF TOP ADDITION
AT
408 MARTIN LUTHER KING JR. BLVD.

ROOF PLAN

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A-200



E1 CONTEXT ELEVATION - MLK JR BLVD
3/16" = 1'-0"



A1 CONTEXT ELEVATION - REAR
3/16" = 1'-0"



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GENERAL NOTES - SECTIONS

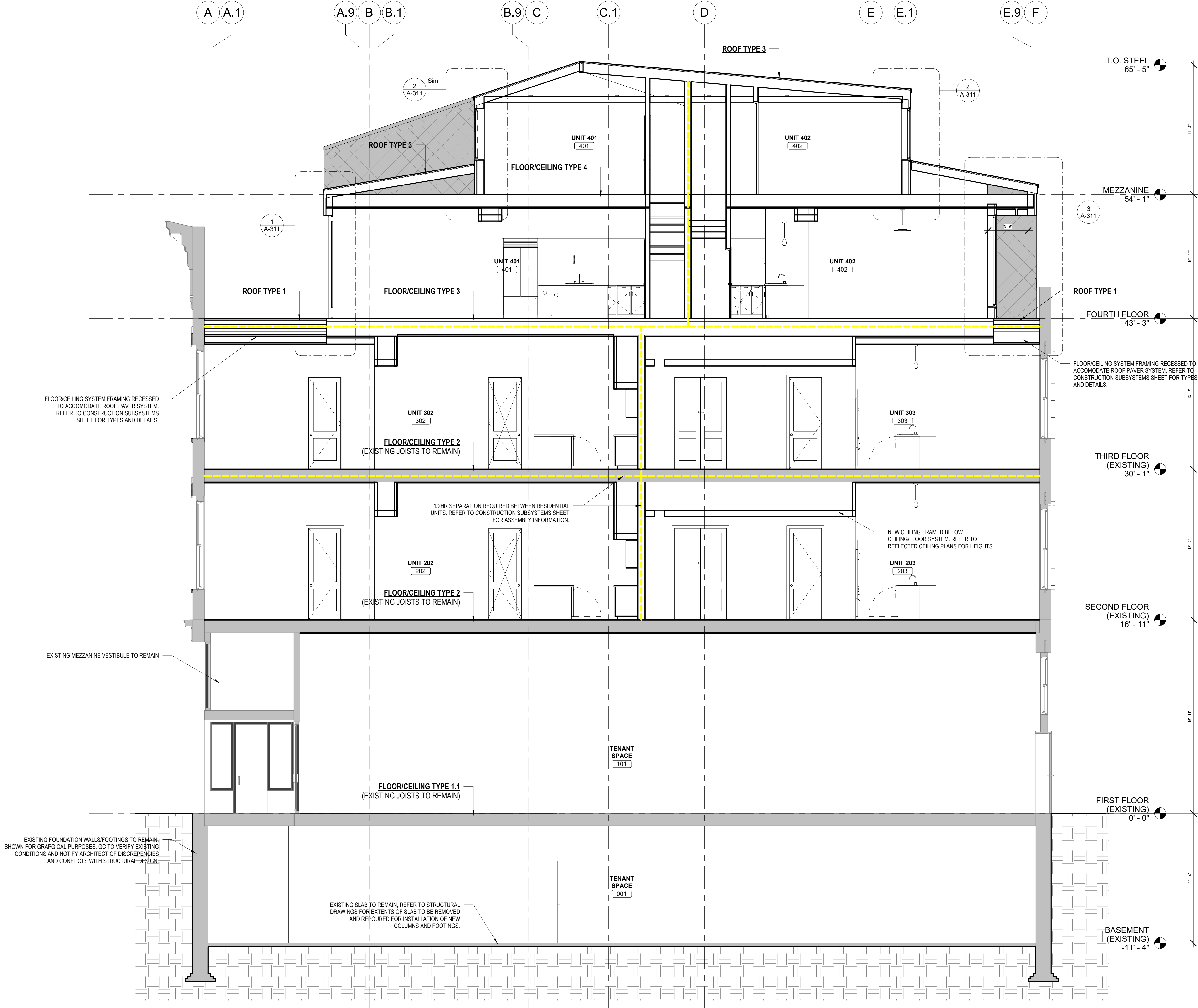
1. SEE ROOM FINISH SCHEDULES FOR ALL SPECIFIC INTERIOR FINISH INFORMATION.
2. SEE INTERIOR ELEVATIONS FOR INFORMATION ON CASEWORK, FIXTURES, AND EQUIPMENT.

BUILDING SECTION LEGEND

- 0.5 HR REQUIRED FIRE SEPARATION
- 1 HR REQUIRED FIRE SEPARATION
- 2 HR REQUIRED FIRE SEPARATION
- 3 HR REQUIRED FIRE SEPARATION
- 4 HR REQUIRED FIRE SEPARATION
- EXISTING CONSTRUCTION
- NEW CONSTRUCTION

SEE SHEET A-002 FOR CONSTRUCTION OF PARTITION TYPES.

1 LONGITUDINAL BUILDING SECTION A
1/4" = 1'-0"



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ROOF TOP ADDITION

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BUILDING SECTIONS

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CONSTRUCTION
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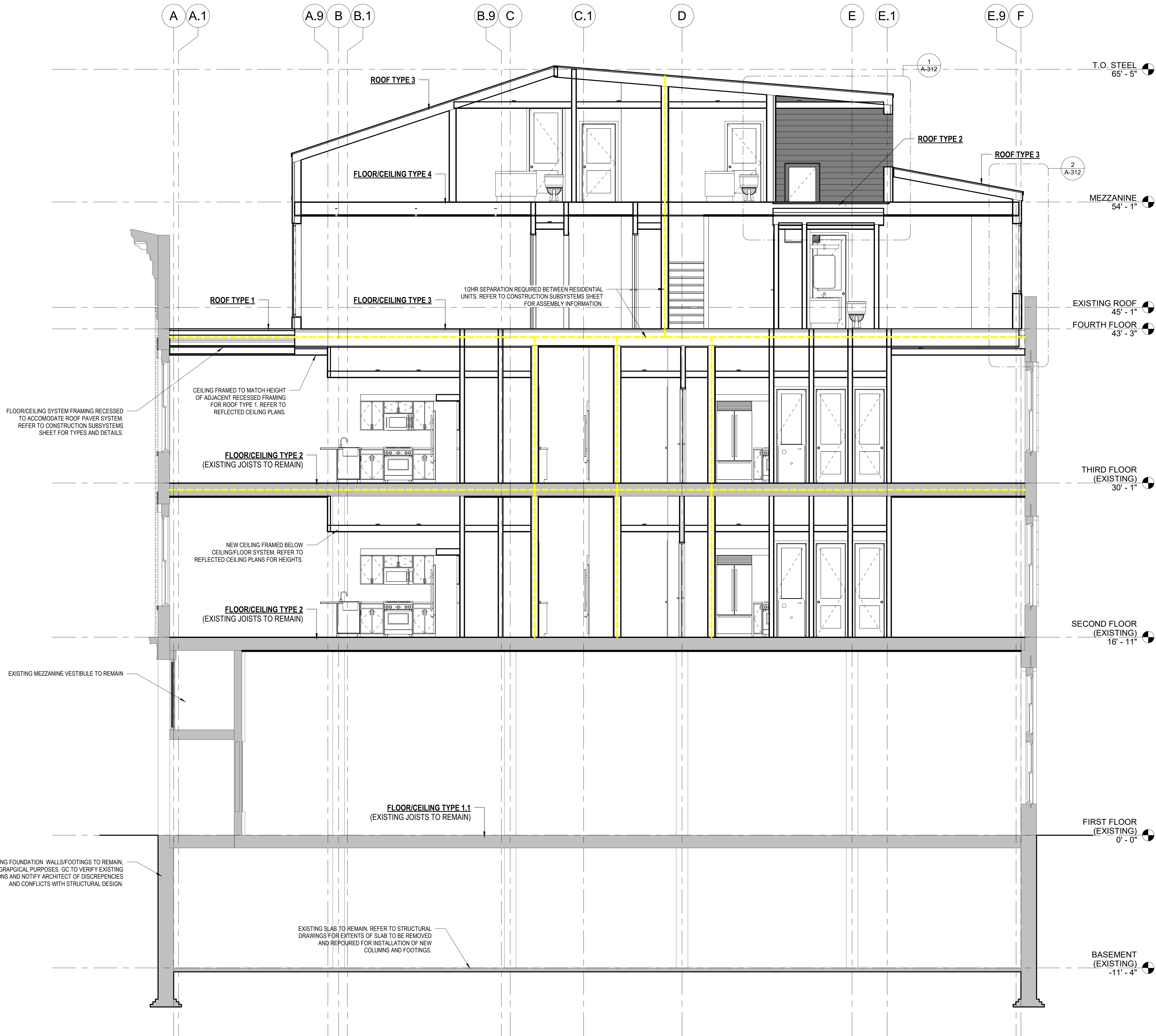
A-301

GENERAL NOTES - SECTIONS

1. SEE ROOM FINISH SCHEDULES FOR ALL SPECIFIC INTERIOR FINISH INFORMATION.
2. SEE INTERIOR ELEVATIONS FOR INFORMATION ON CASEWORK, FIXTURES, AND EQUIPMENT.

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BUILDING SECTION LEGEND

- 0.5 HR REQUIRED FIRE SEPARATION
- 1 HR REQUIRED FIRE SEPARATION
- 2 HR REQUIRED FIRE SEPARATION
- 3 HR REQUIRED FIRE SEPARATION
- 4 HR REQUIRED FIRE SEPARATION
- EXISTING CONSTRUCTION
- NEW CONSTRUCTION

SEE SHEET A-002 FOR CONSTRUCTION OF PARTITION TYPES.

1 LONGITUDINAL BUILDING SECTION B
1/4" = 1'-0"

ROOF TOP ADDITION

AT
408 MARTIN LUTHER KING JR. BLVD.

BUILDING SECTIONS

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CONSTRUCTION
DOCUMENTS

A-302

GENERAL NOTES - SECTIONS

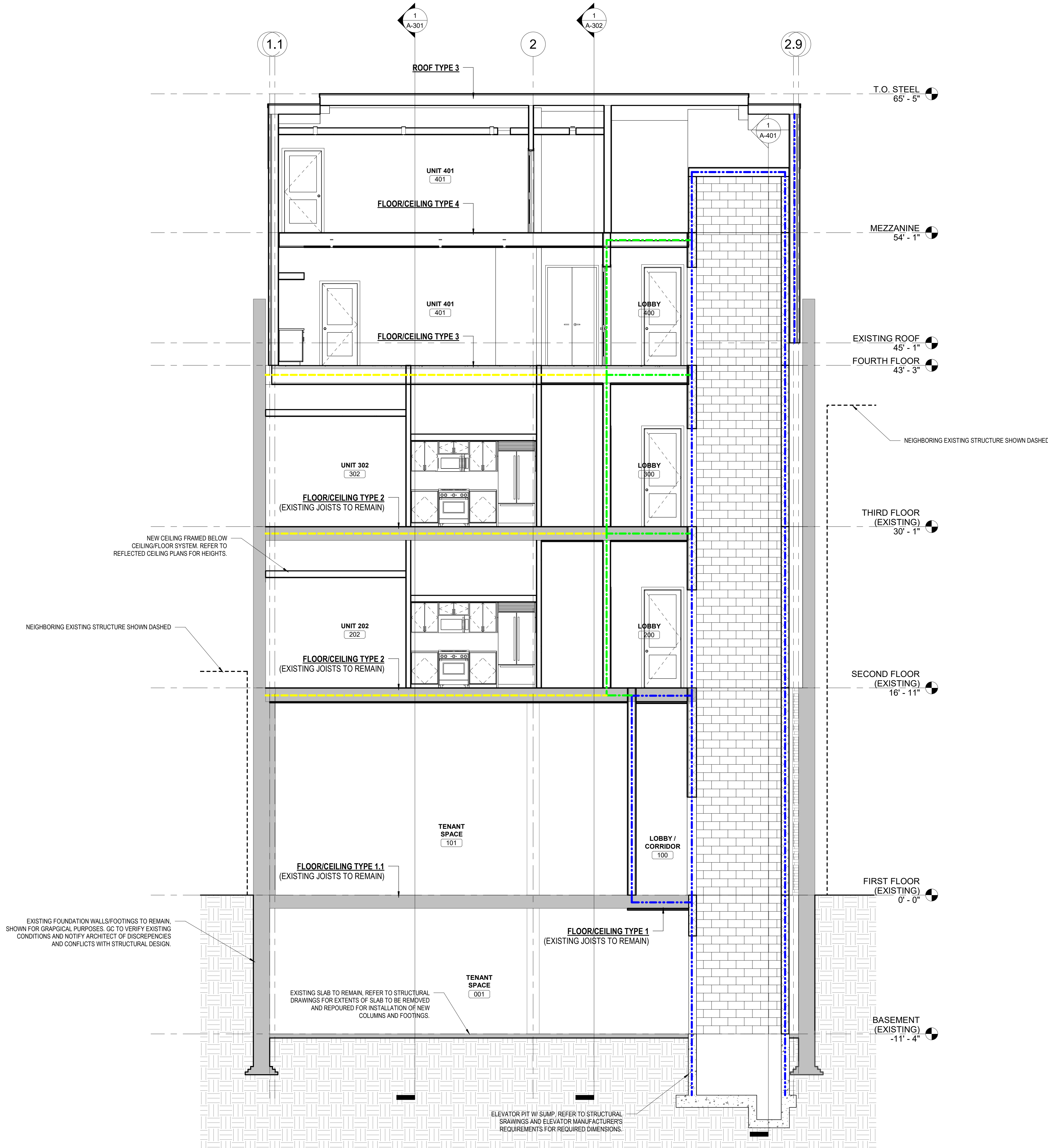
1. SEE ROOM FINISH SCHEDULES FOR ALL SPECIFIC INTERIOR FINISH INFORMATION.
2. SEE INTERIOR ELEVATIONS FOR INFORMATION ON CASEWORK, FIXTURES, AND EQUIPMENT.

BUILDING SECTION LEGEND

- 0.5 HR REQUIRED FIRE SEPARATION
- 1 HR REQUIRED FIRE SEPARATION
- 2 HR REQUIRED FIRE SEPARATION
- 3 HR REQUIRED FIRE SEPARATION
- 4 HR REQUIRED FIRE SEPARATION
- EXISTING CONSTRUCTION --- NEW CONSTRUCTION

SEE SHEET A-002 FOR CONSTRUCTION OF PARTITION TYPES.

1 TRANSVERSE BUILDING SECTION
1/4" = 1'-0"



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ROOF TOP ADDITION
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BUILDING SECTIONS

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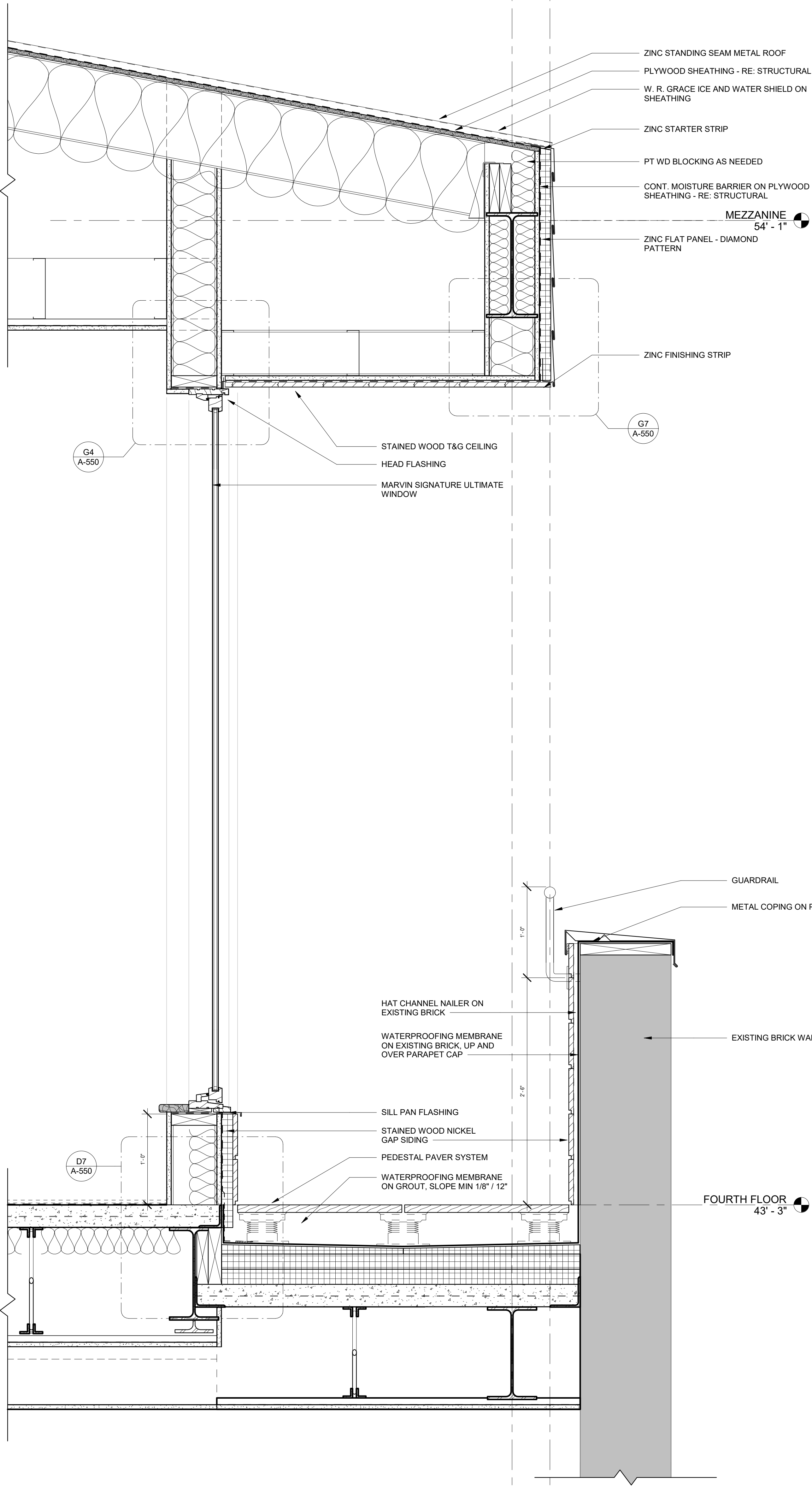
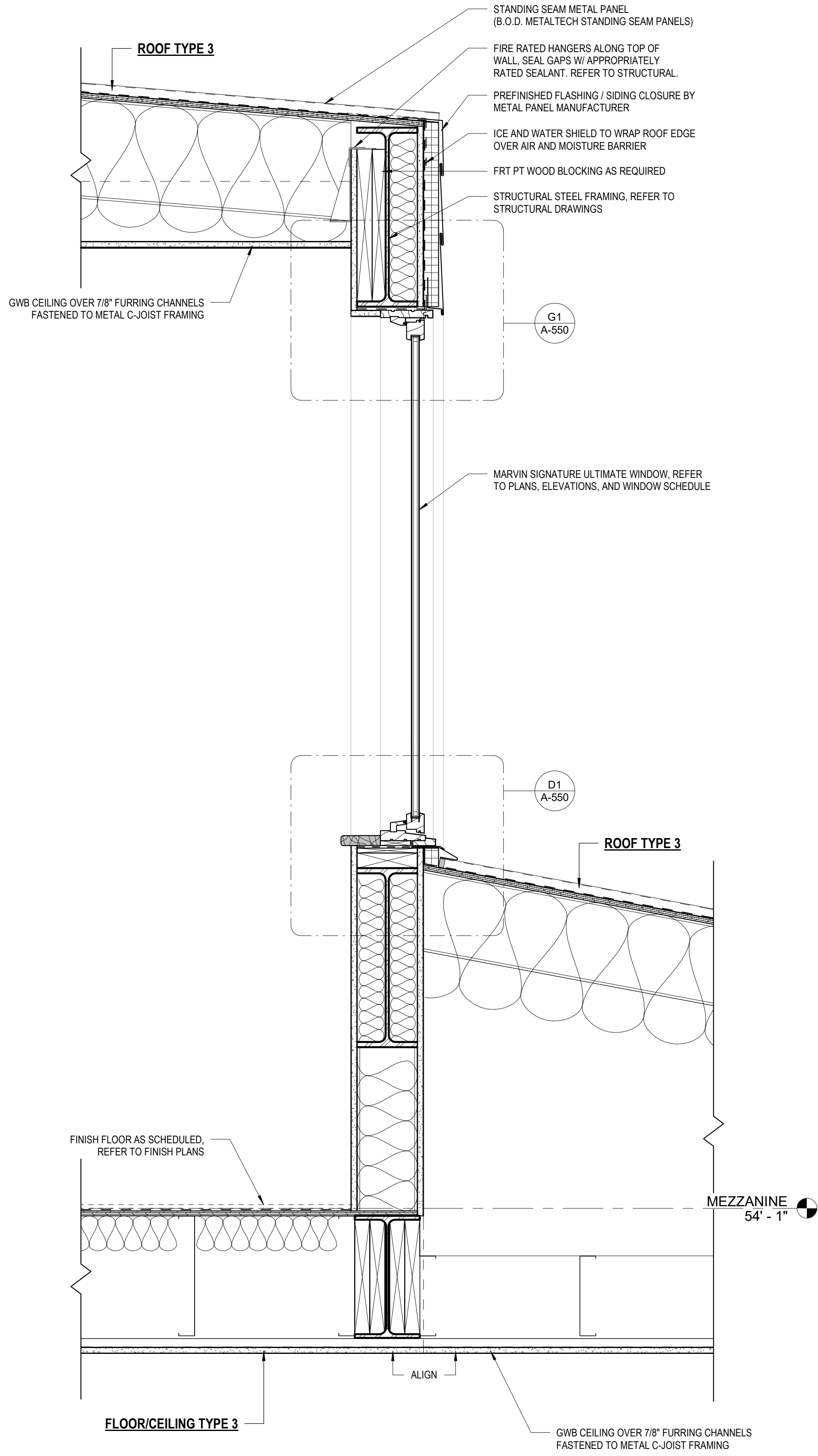
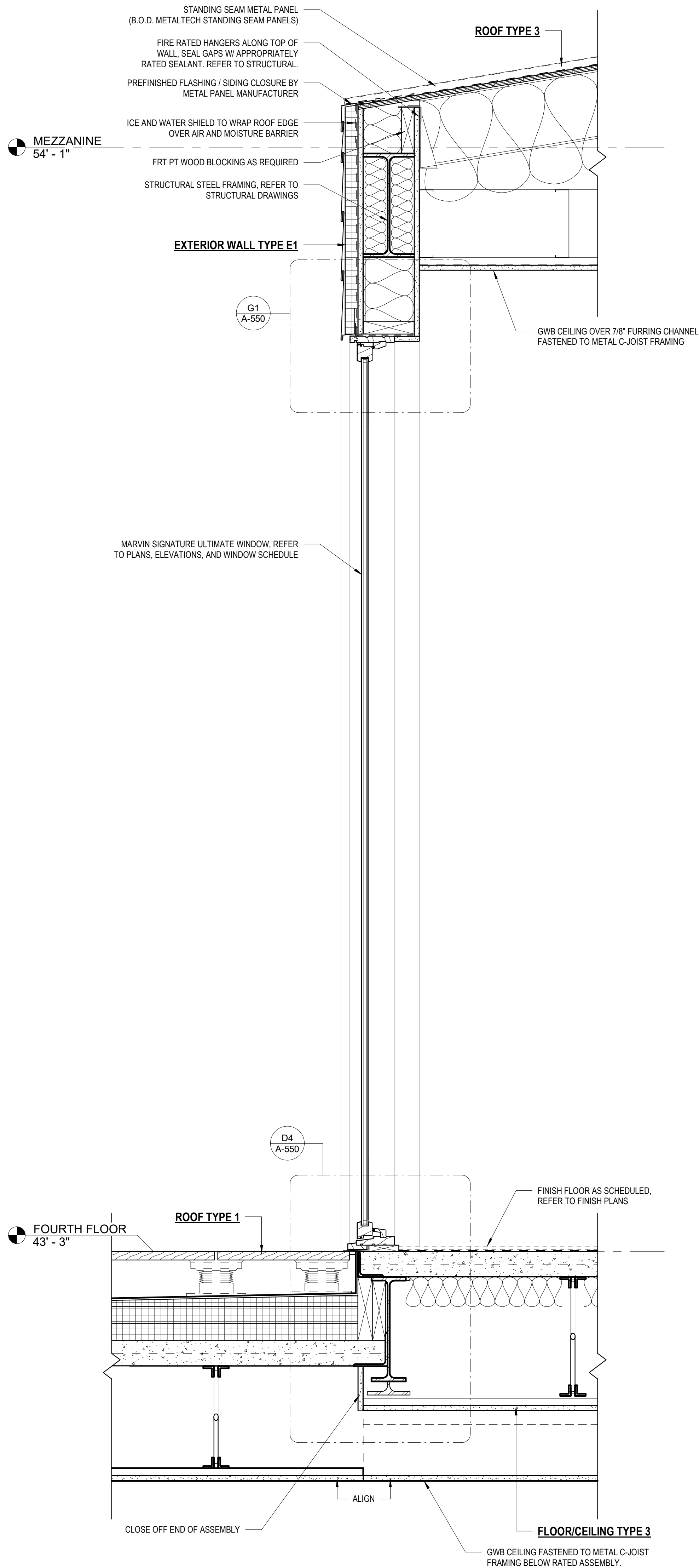
ISSUE DATE

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CURRENT DRAWING STATUS
CONSTRUCTION
DOCUMENTS

A-303

NO.	DESCRIPTION	DATE

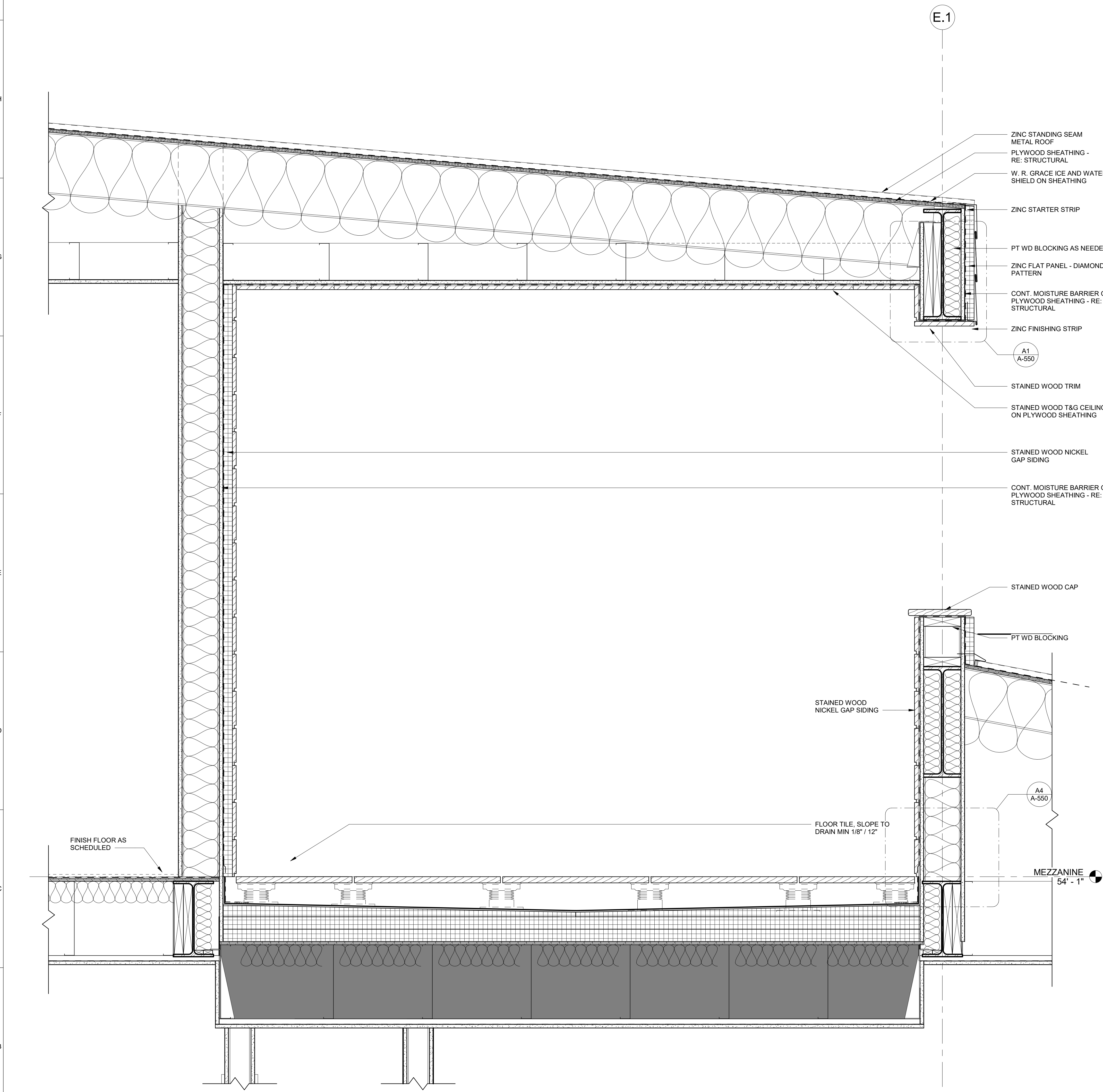


1 WALL SECTION AT FOURTH FLOOR PATIO
1 1/2" = 1'-0"

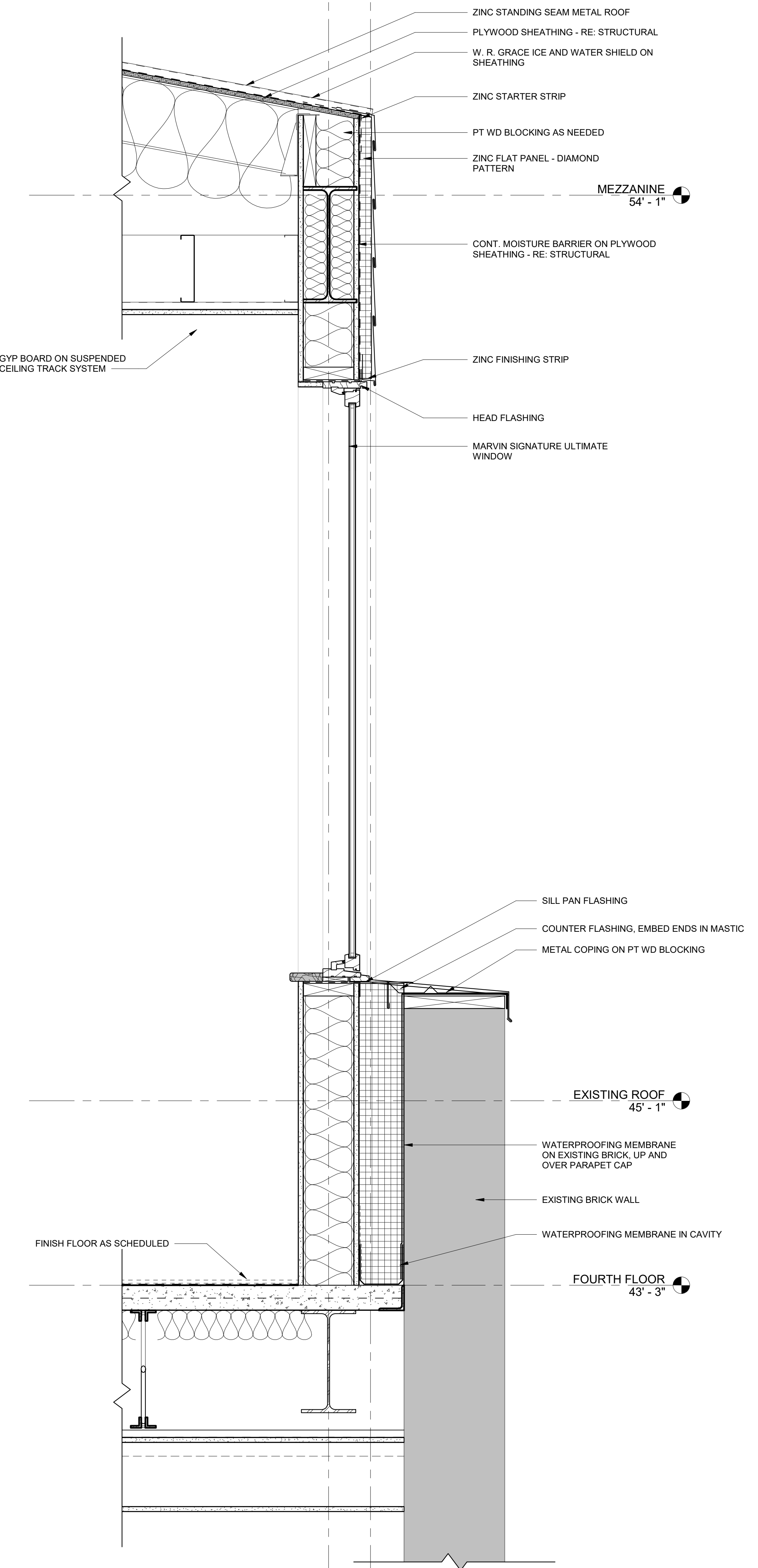
2 WALL SECTION AT MEZZANINE WINDOWS
1 1/2" = 1'-0"

3 WALL SECTION AT FOURTH FLOOR COVERED PATIO
1 1/2" = 1'-0"

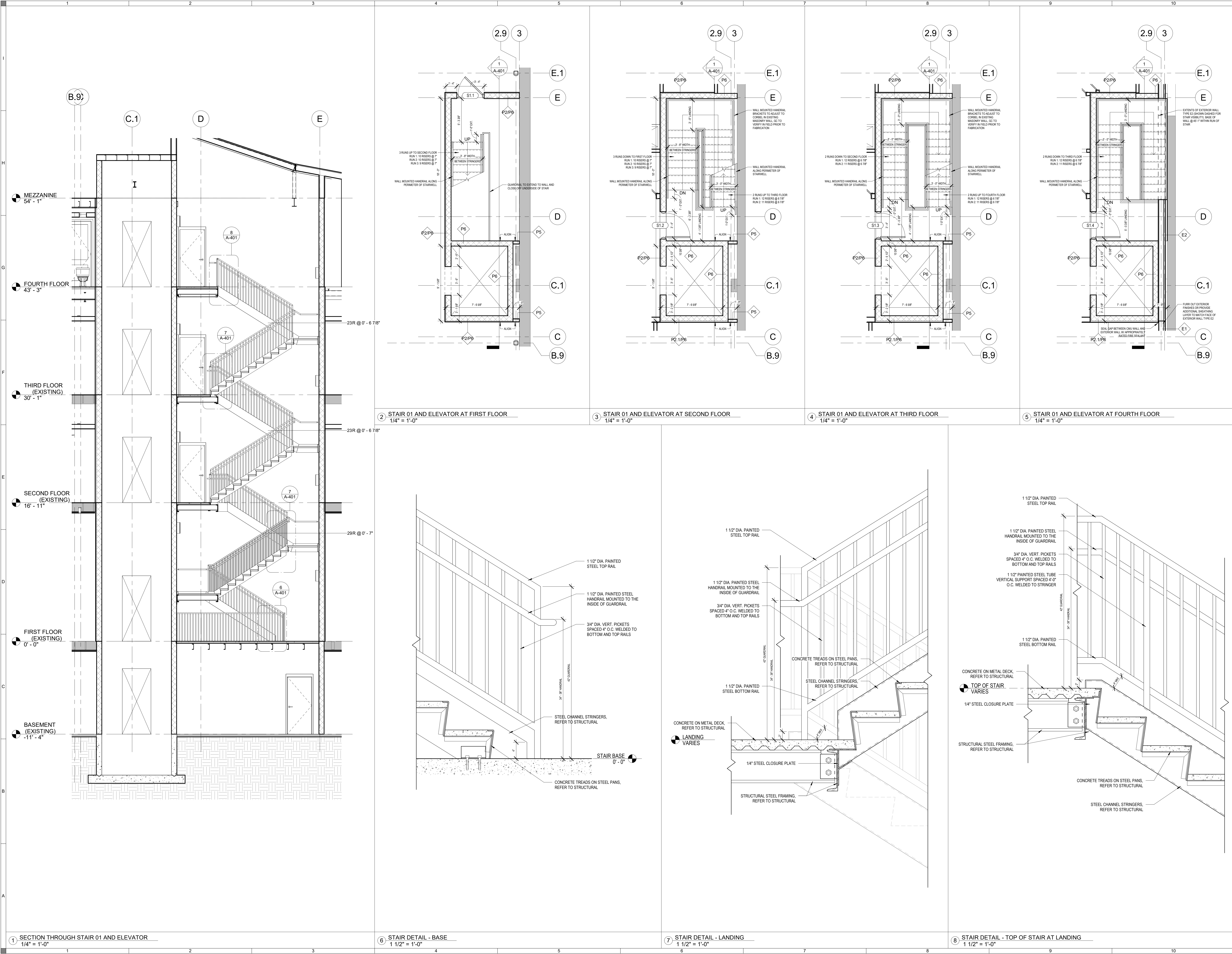
NO.	DESCRIPTION	DATE



① WALL SECTION AT MEZZANINE COVERED PATIO
1 1/2" = 1'-0"



② BUILDING SECTION 3 - Callout 4
1 1/2" = 1'-0"



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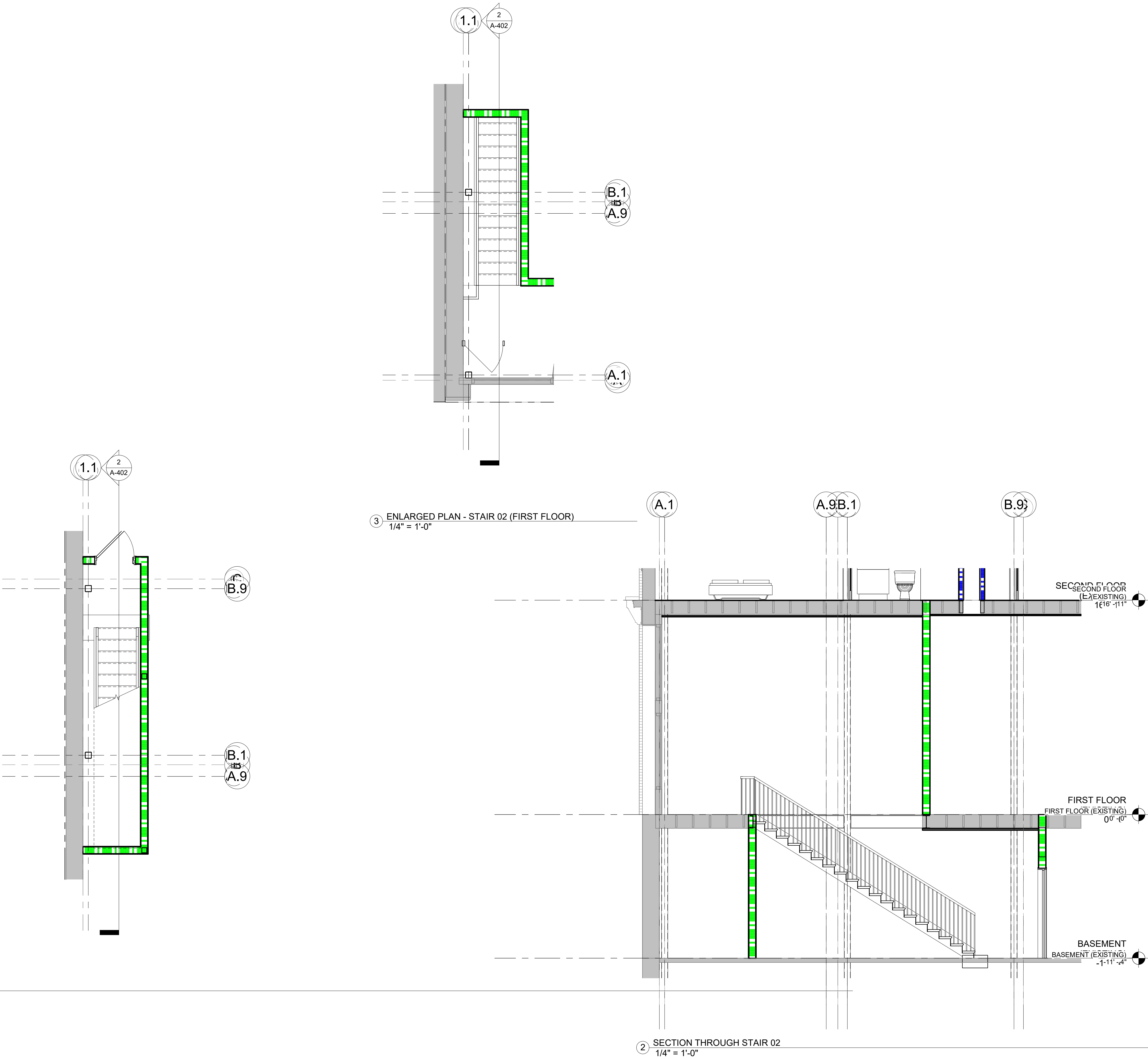
REVISIONS		
NO.	DESCRIPTION	DATE

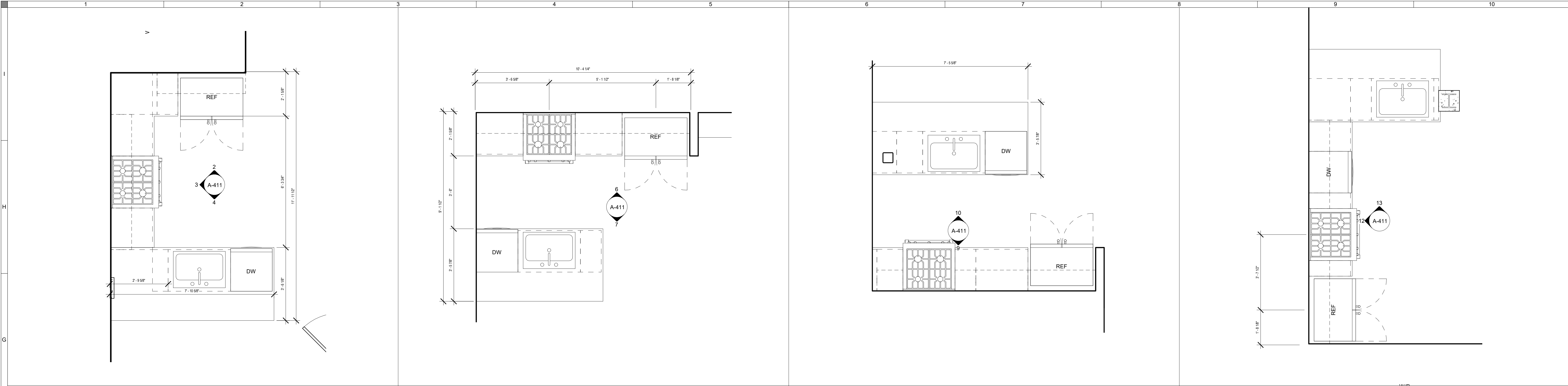
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A-402



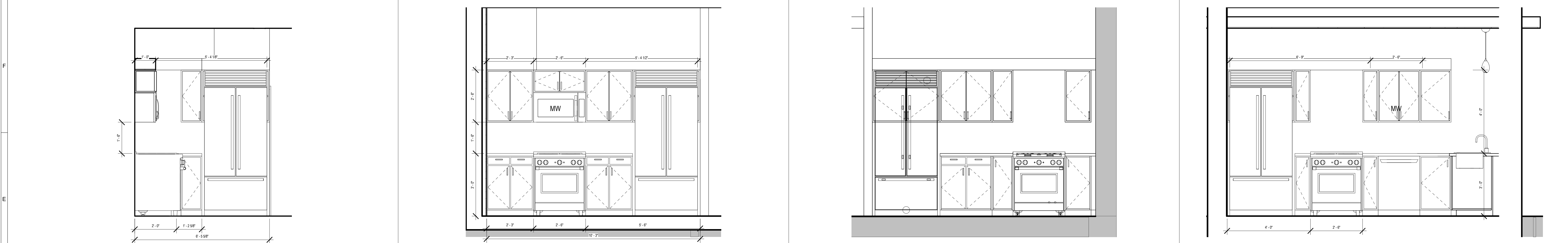


1 ENLARGED KITCHEN PLAN - UNIT 201 & 301
1/2" = 1'-0"

5 ENLARGED KITCHEN PLAN - UNIT 202 & 302
1/2" = 1'-0"

8 ENLARGED KITCHEN PLAN - UNIT 203 & 303
1/2" = 1'-0"

11 ENLARGED KITCHEN PLAN - UNIT 204 & 304
1/2" = 1'-0"

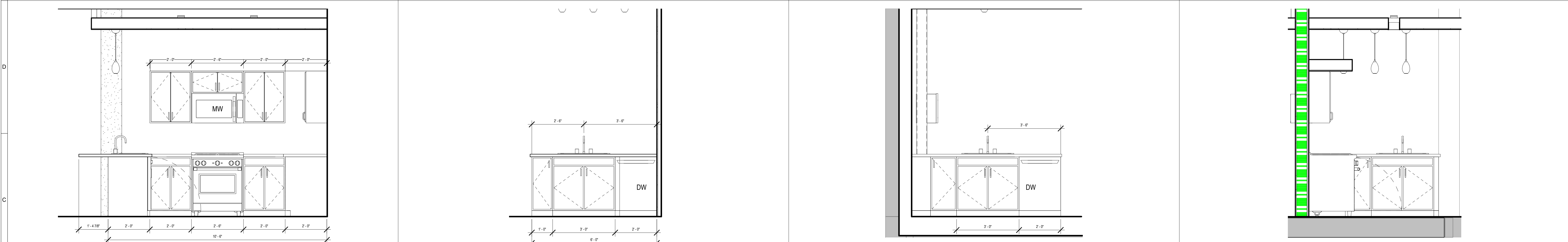


2 UNIT 201 & 301 - KITCHEN ELEVATION 1
1/2" = 1'-0"

6 UNIT 202 & 302 - KITCHEN ELEVATION 1
1/2" = 1'-0"

9 UNIT 203 & 303 - KITCHEN ELEVATION 1
1/2" = 1'-0"

12 UNIT 204 & 304 - KITCHEN ELEVATION 1
1/2" = 1'-0"

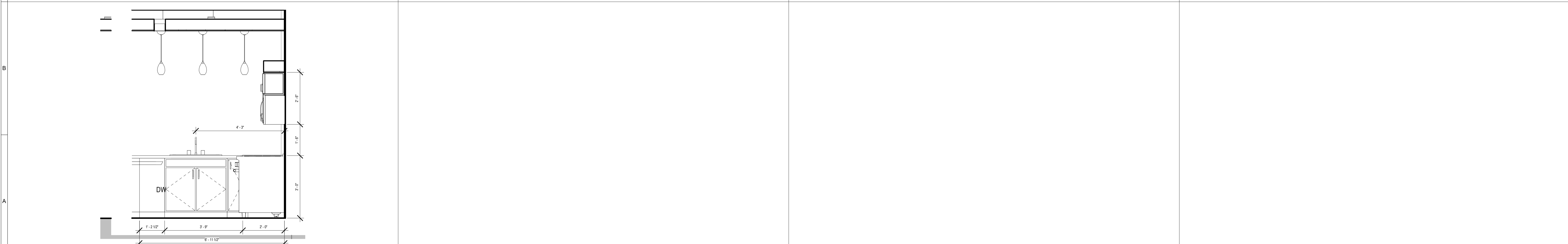


3 UNIT 201 & 301 - KITCHEN ELEVATION 2
1/2" = 1'-0"

7 UNIT 202 & 302 - KITCHEN ELEVATION 2
1/2" = 1'-0"

10 UNIT 203 & 303 - KITCHEN ELEVATION 2
1/2" = 1'-0"

13 UNIT 204 & 304 - KITCHEN ELEVATION 2
1/2" = 1'-0"



4 UNIT 201 & 301 - KITCHEN ELEVATION 3
1/2" = 1'-0"

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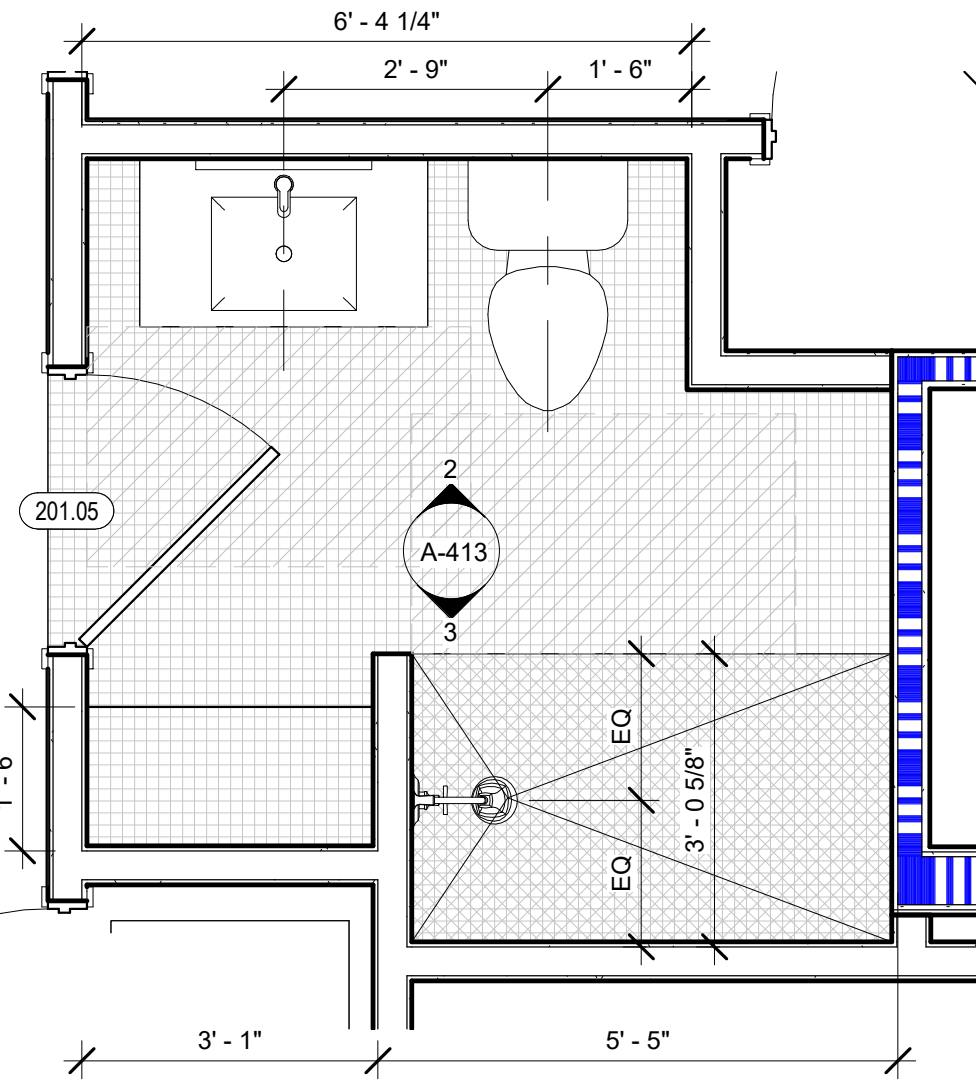
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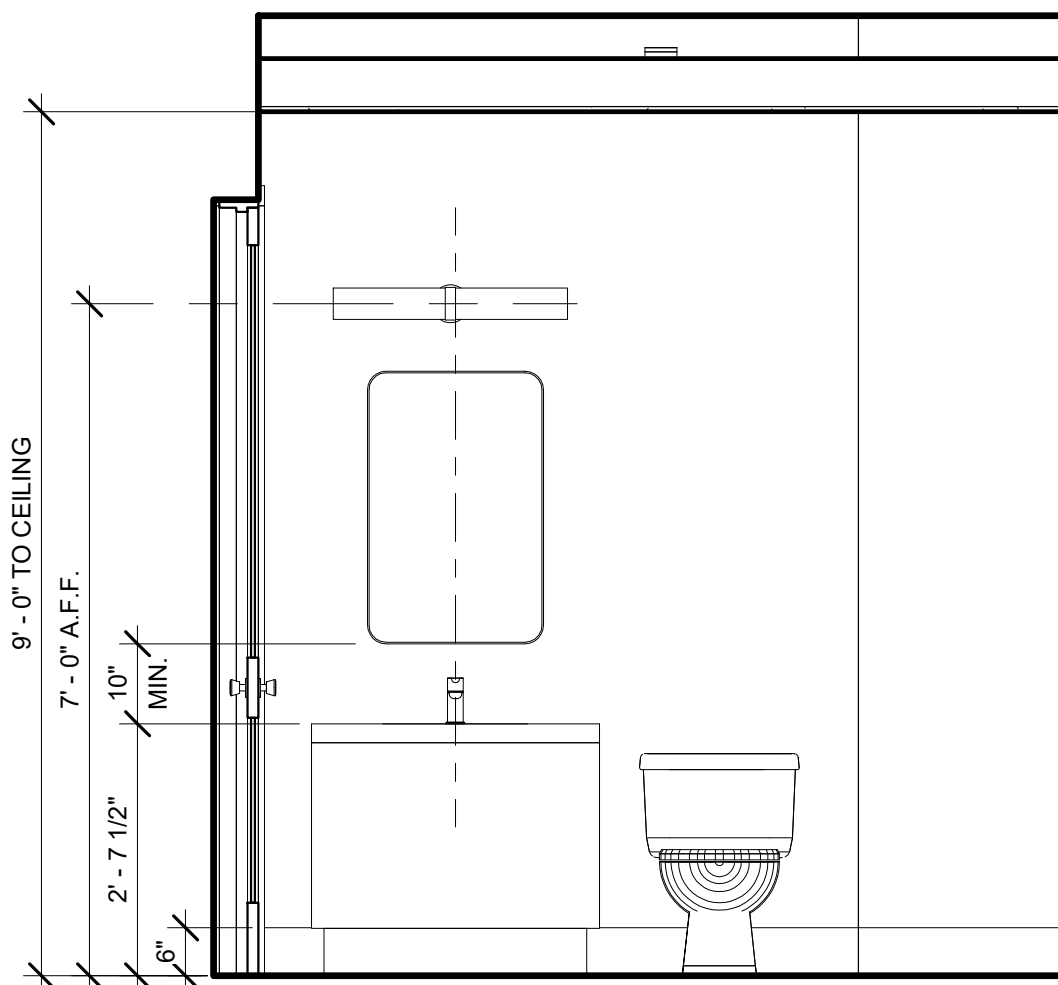
CURRENT DRAWING STATUS

CONSTRUCTION
DOCUMENTS

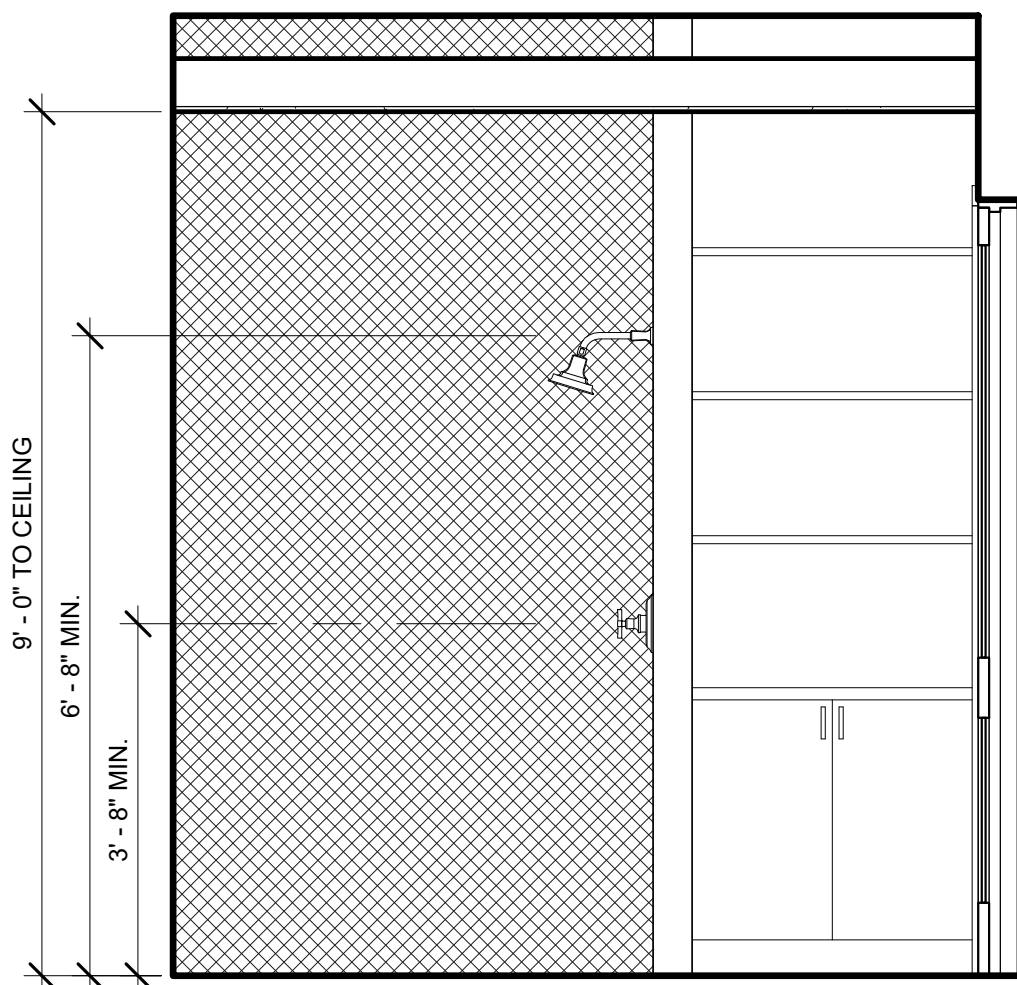
A-413



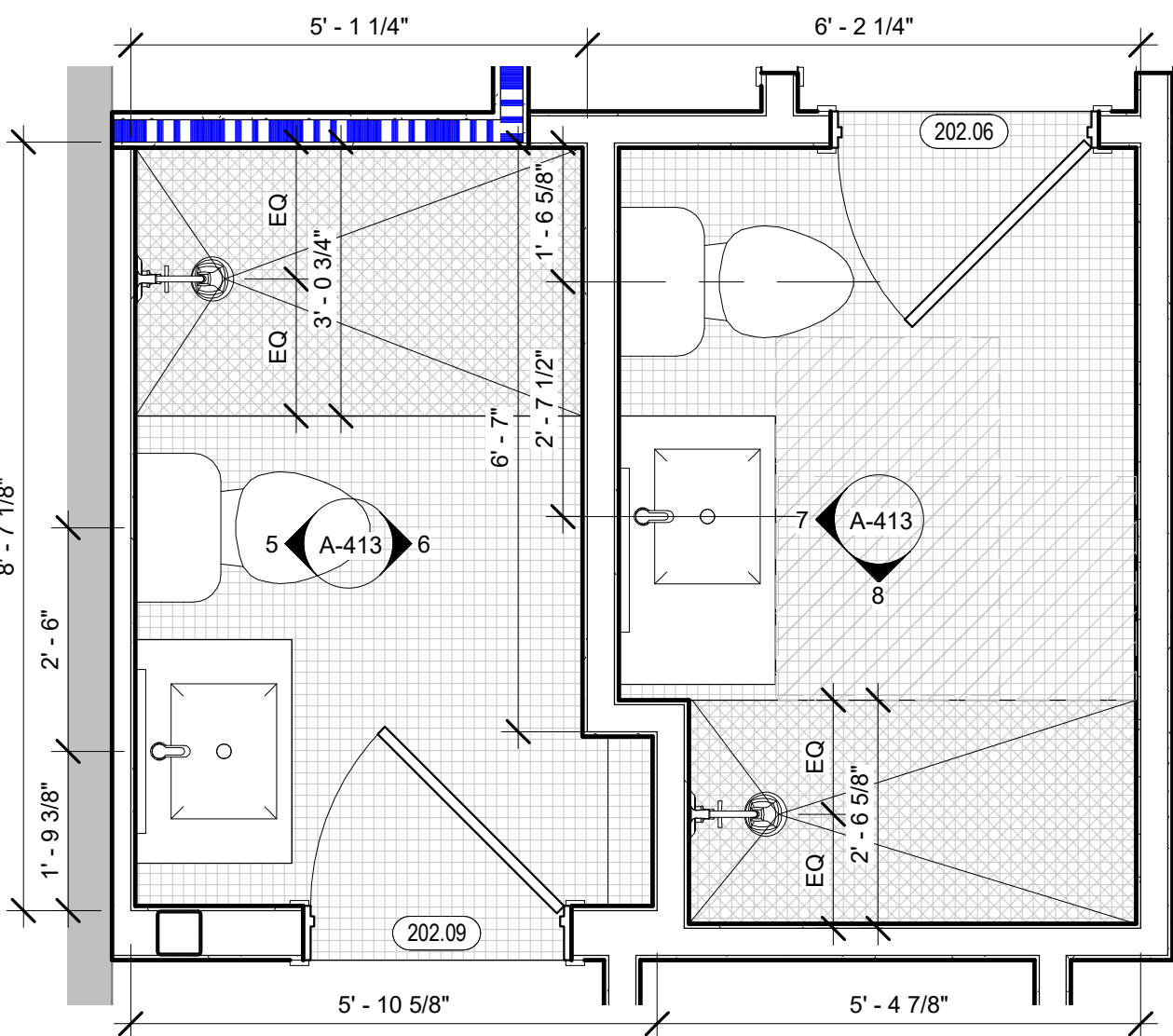
1 ENLARGED BATHROOM PLAN - UNIT 201 & 301
1/2" = 1'-0"



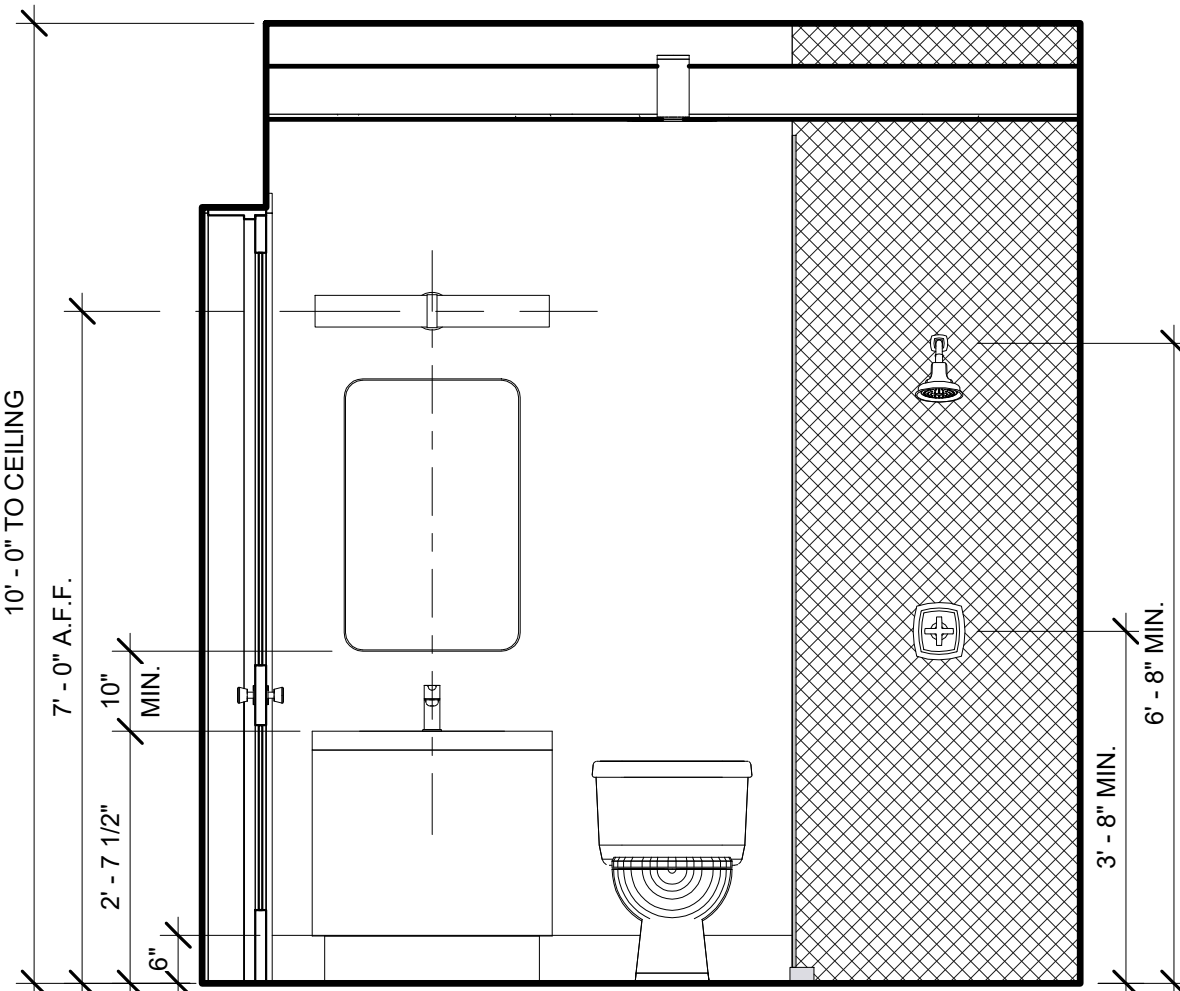
2 UNIT 201 & 301 - BATHROOM ELEVATION 1
1/2" = 1'-0"



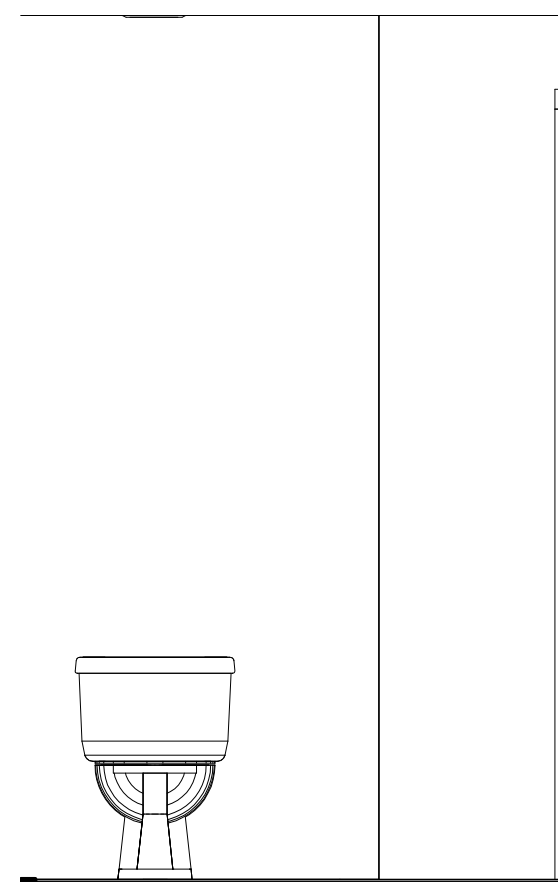
3 UNIT 201 & 301 - BATHROOM ELEVATION 2
1/2" = 1'-0"



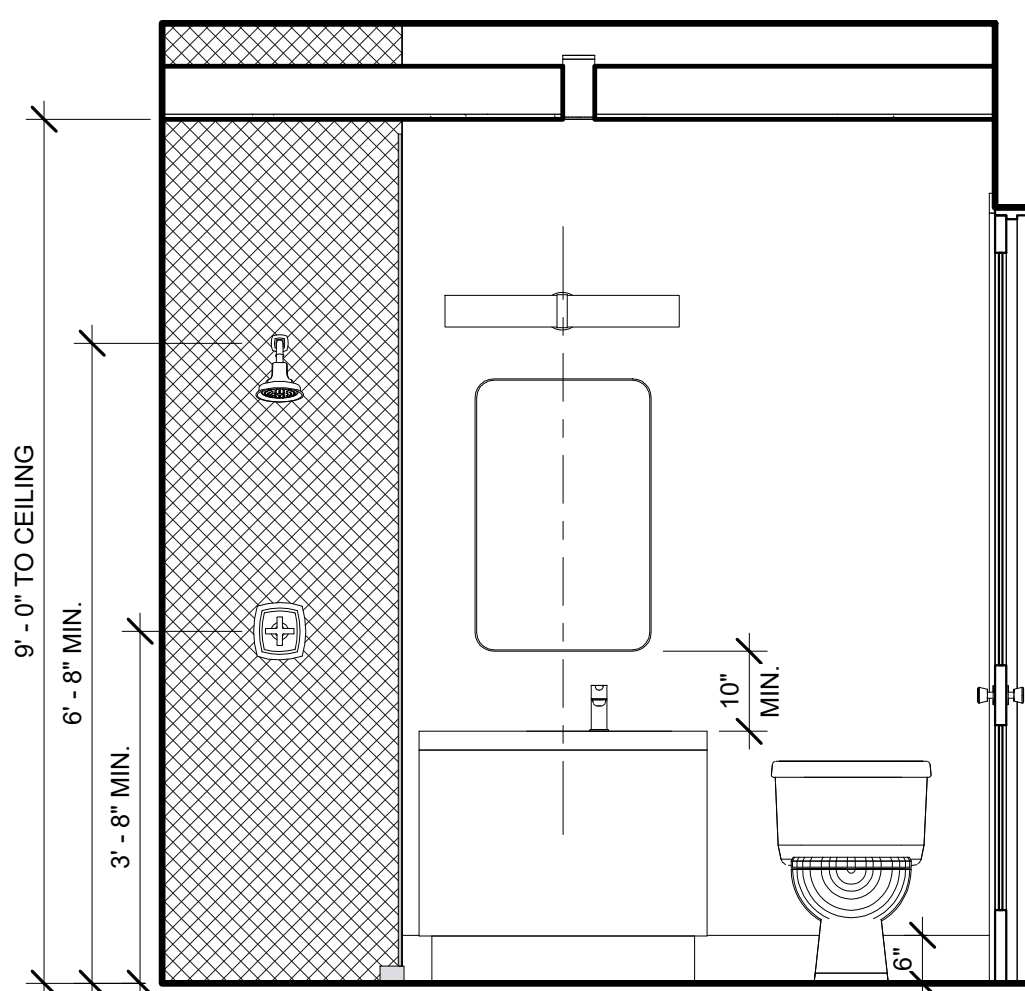
4 ENLARGED BATHROOM PLAN - UNIT 202 & 302
1/2" = 1'-0"



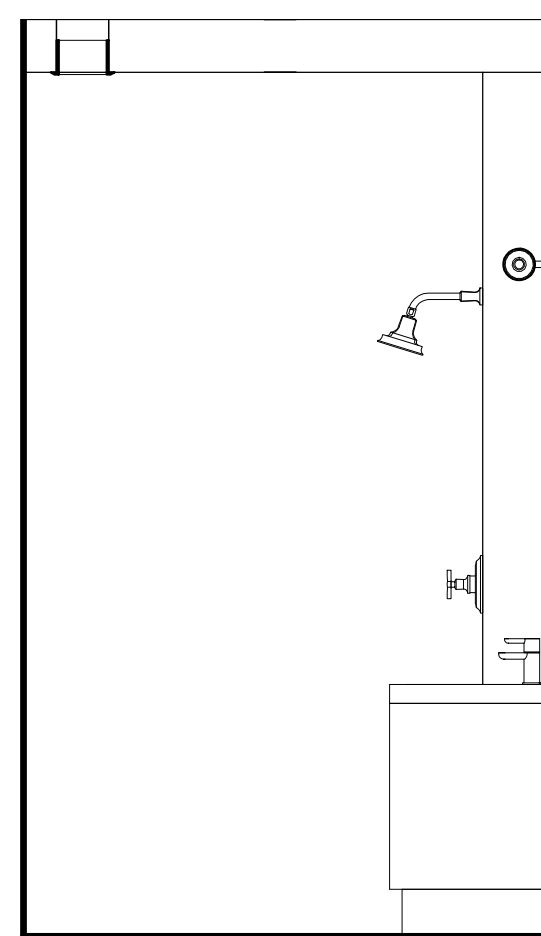
5 UNIT 202 & 302 - BATHROOM (1) ELEVATION 1
1/2" = 1'-0"



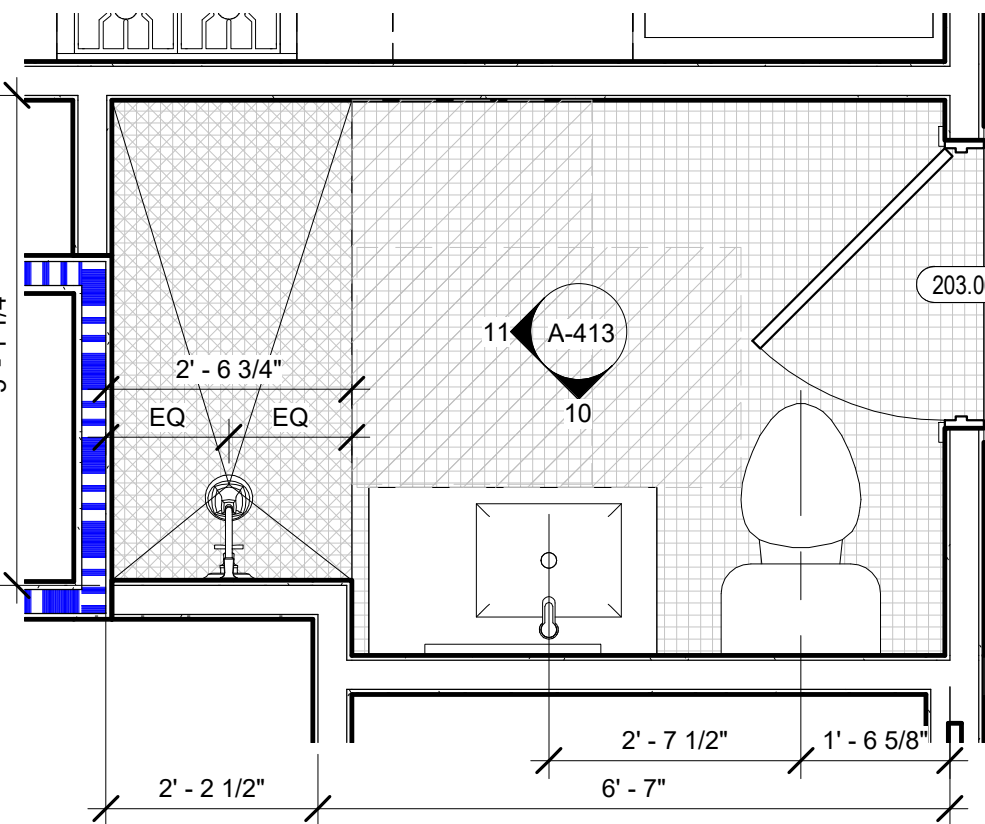
6 UNIT 202 & 302 - BATHROOM (1) ELEVATION 2
1/2" = 1'-0"



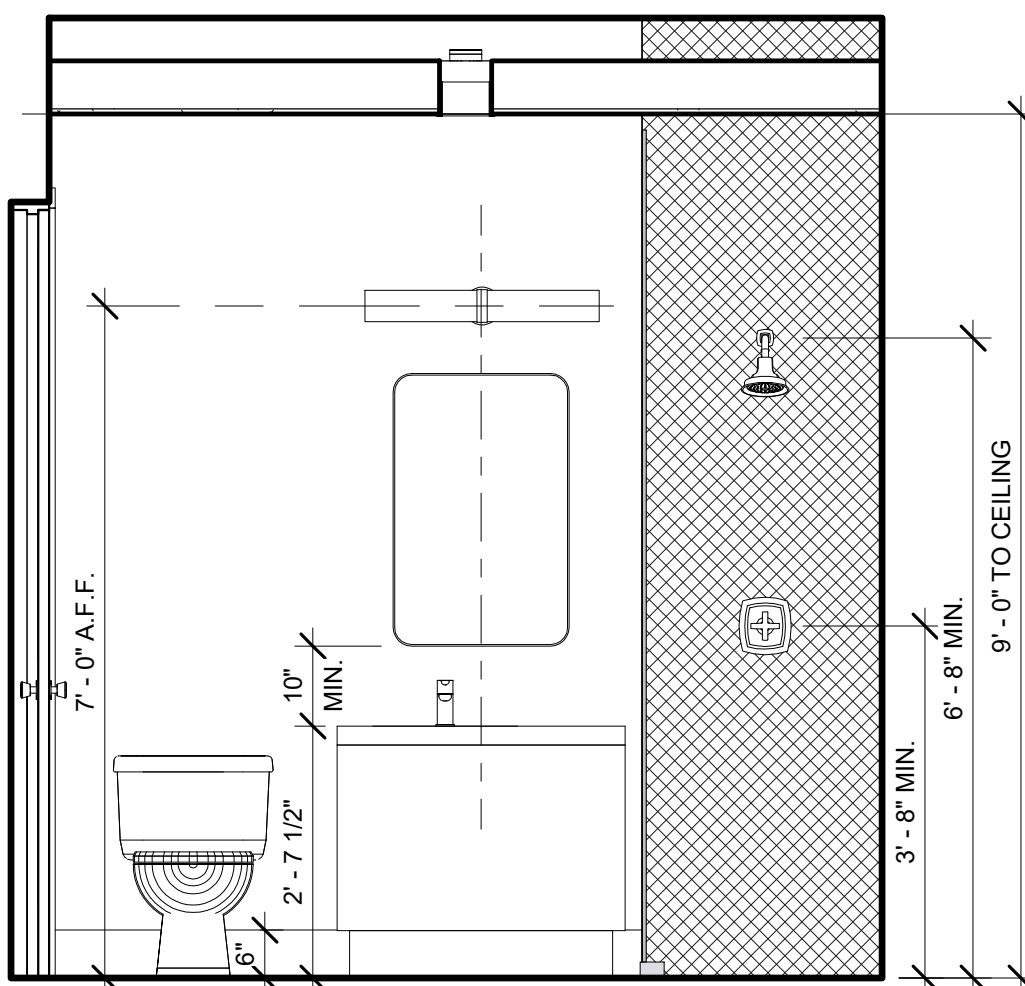
7 UNIT 202 & 302 - BATHROOM (2) ELEVATION 1
1/2" = 1'-0"



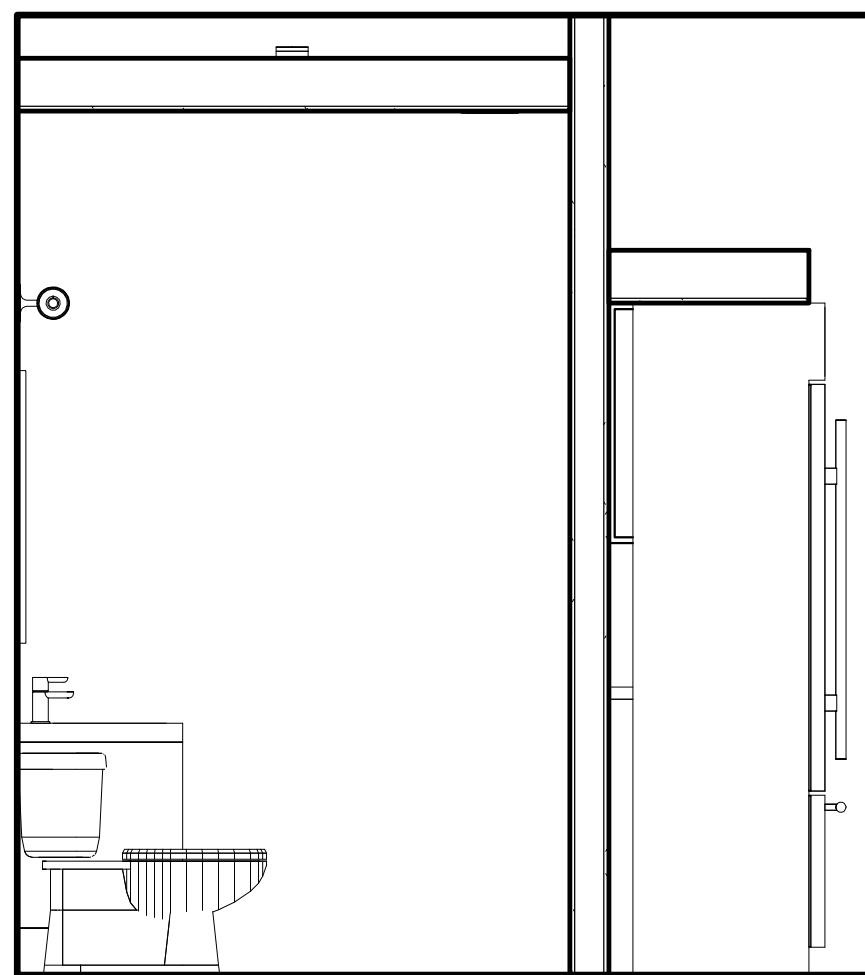
8 UNIT 202 & 302 - BATHROOM (2) ELEVATION 2
1/2" = 1'-0"



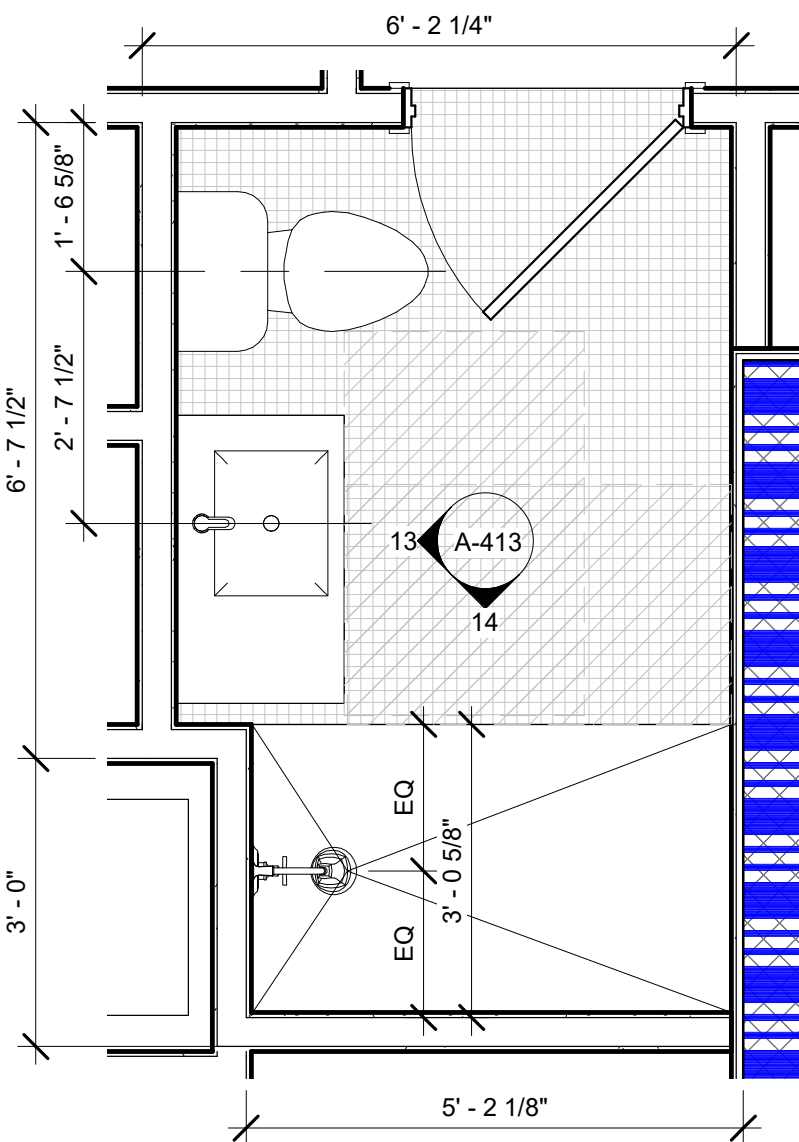
9 ENLARGED BATHROOM PLAN - UNIT 203 & 303
1/2" = 1'-0"



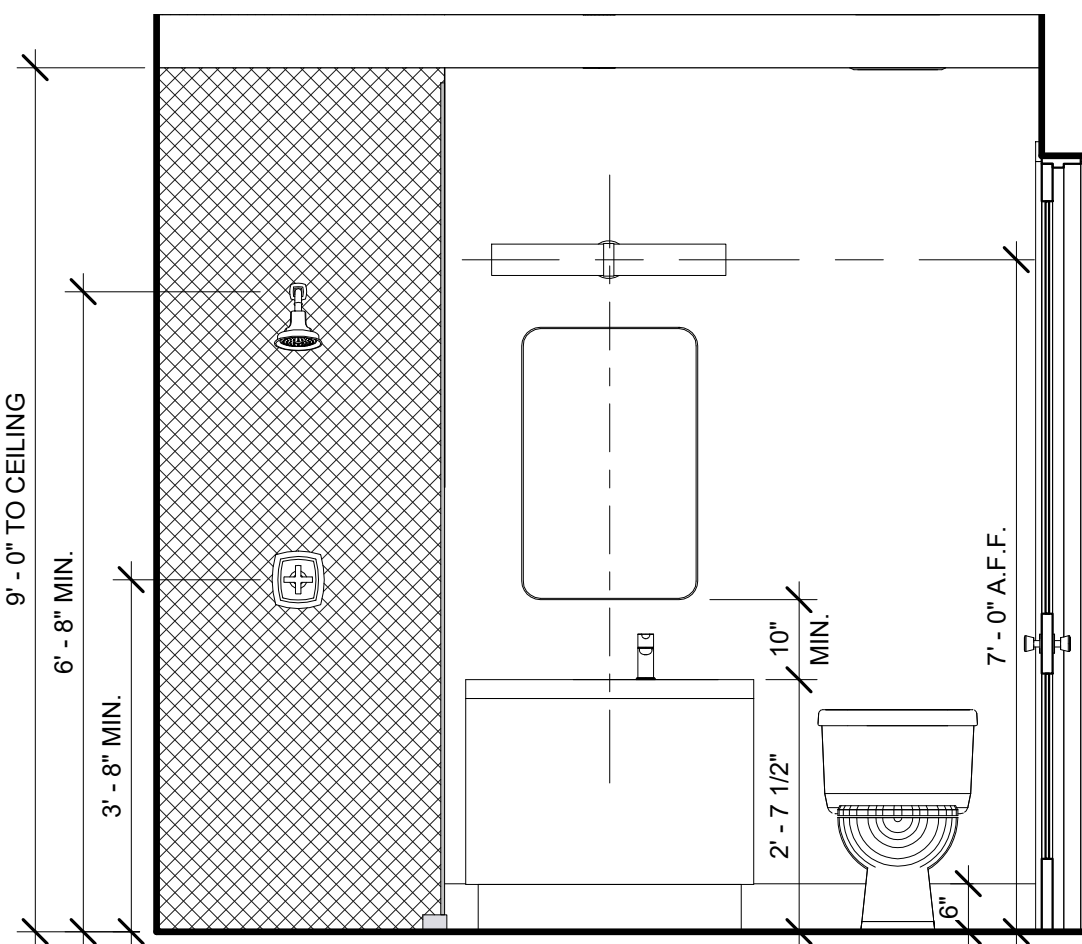
10 UNIT 203 & 303 - BATHROOM ELEVATION 1
1/2" = 1'-0"



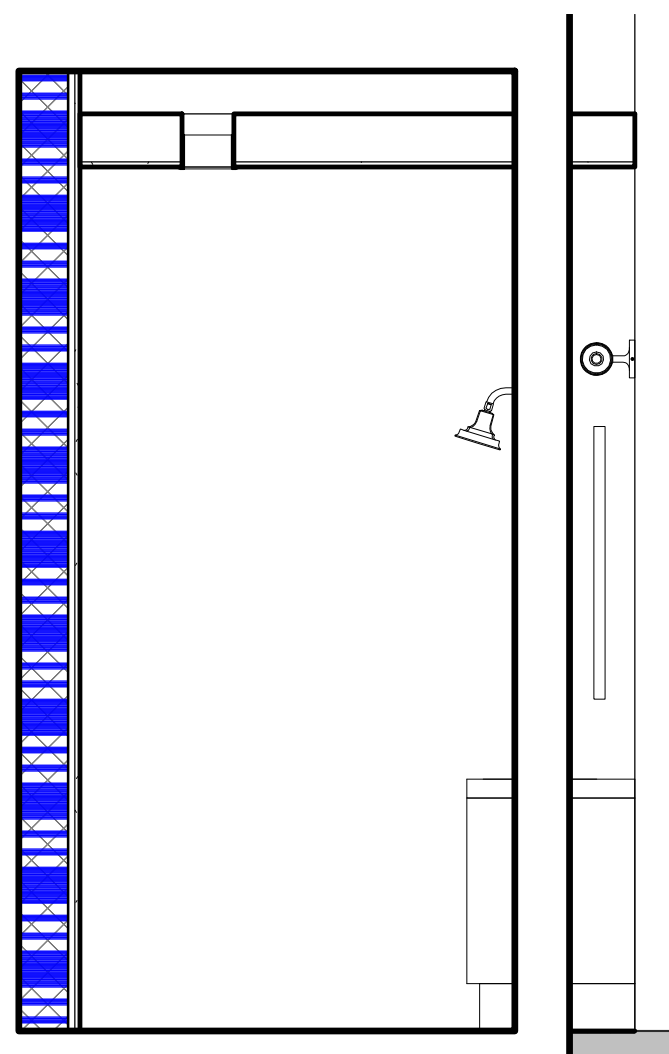
11 UNIT 203 & 303 - BATHROOM ELEVATION 2
1/2" = 1'-0"



12 ENLARGED BATHROOM PLAN - UNIT 204 & 304
1/2" = 1'-0"



13 UNIT 204 & 304 - BATHROOM ELEVATION 1
1/2" = 1'-0"



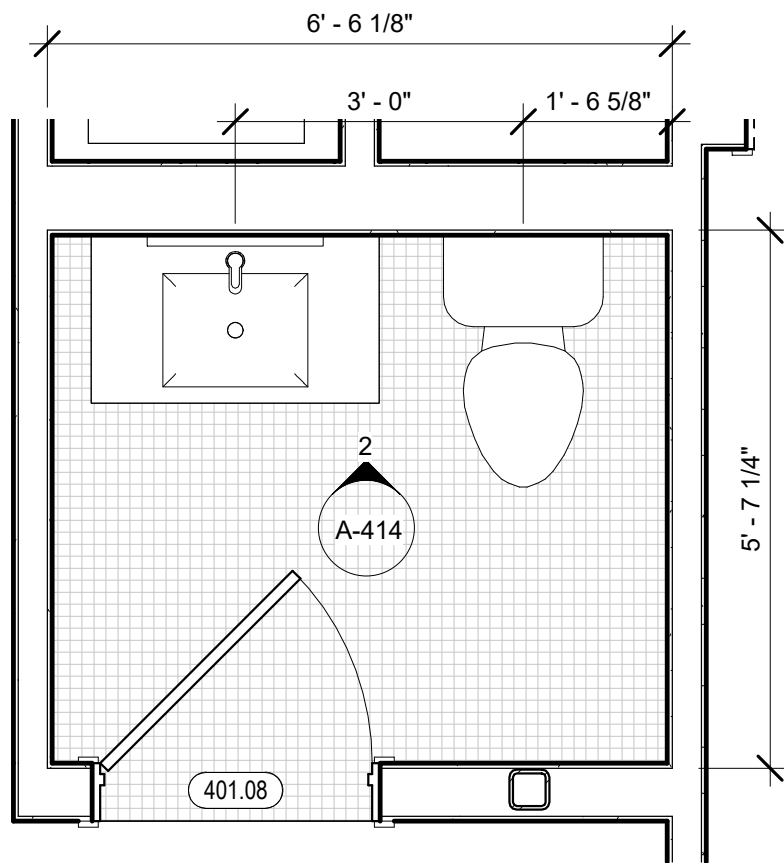
14 UNIT 204 & 304 - BATHROOM ELEVATION 2
1/2" = 1'-0"

INT. ELEVATION LEGEND

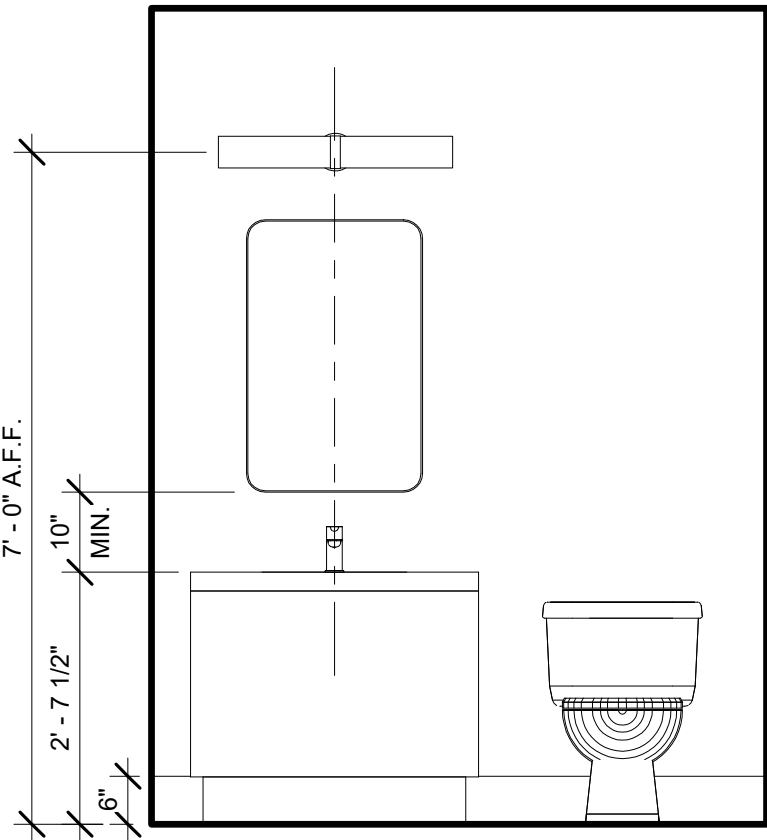
5/8" GYPSUM BOARD LEVEL 4 FINISH, PAINTED	
WALL TILE 1 (SEE FINISH SCHEDULE FOR DETAILED DESCRIPTION)	
WALL TILE 2 (SEE FINISH SCHEDULE FOR DETAILED DESCRIPTION)	

INT. ELEVATION LEGEND

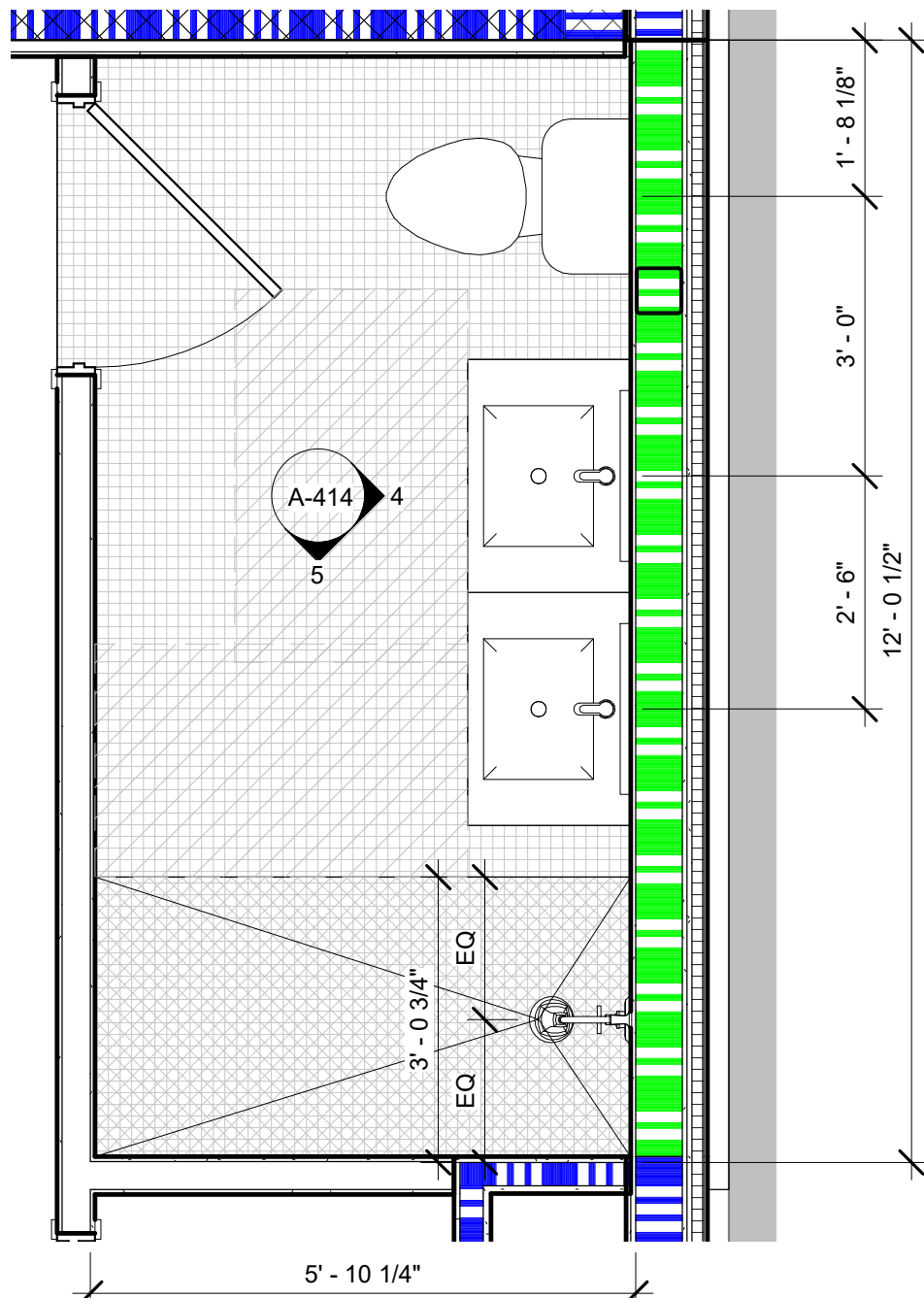
- 5/8" GYPSUM BOARD LEVEL 4
FINISH, PAINTED
- WALL TILE 1 (SEE FINISH
SCHEDULE FOR DETAILED
DESCRIPTION)
- WALL TILE 2 (SEE FINISH
SCHEDULE FOR DETAILED
DESCRIPTION)



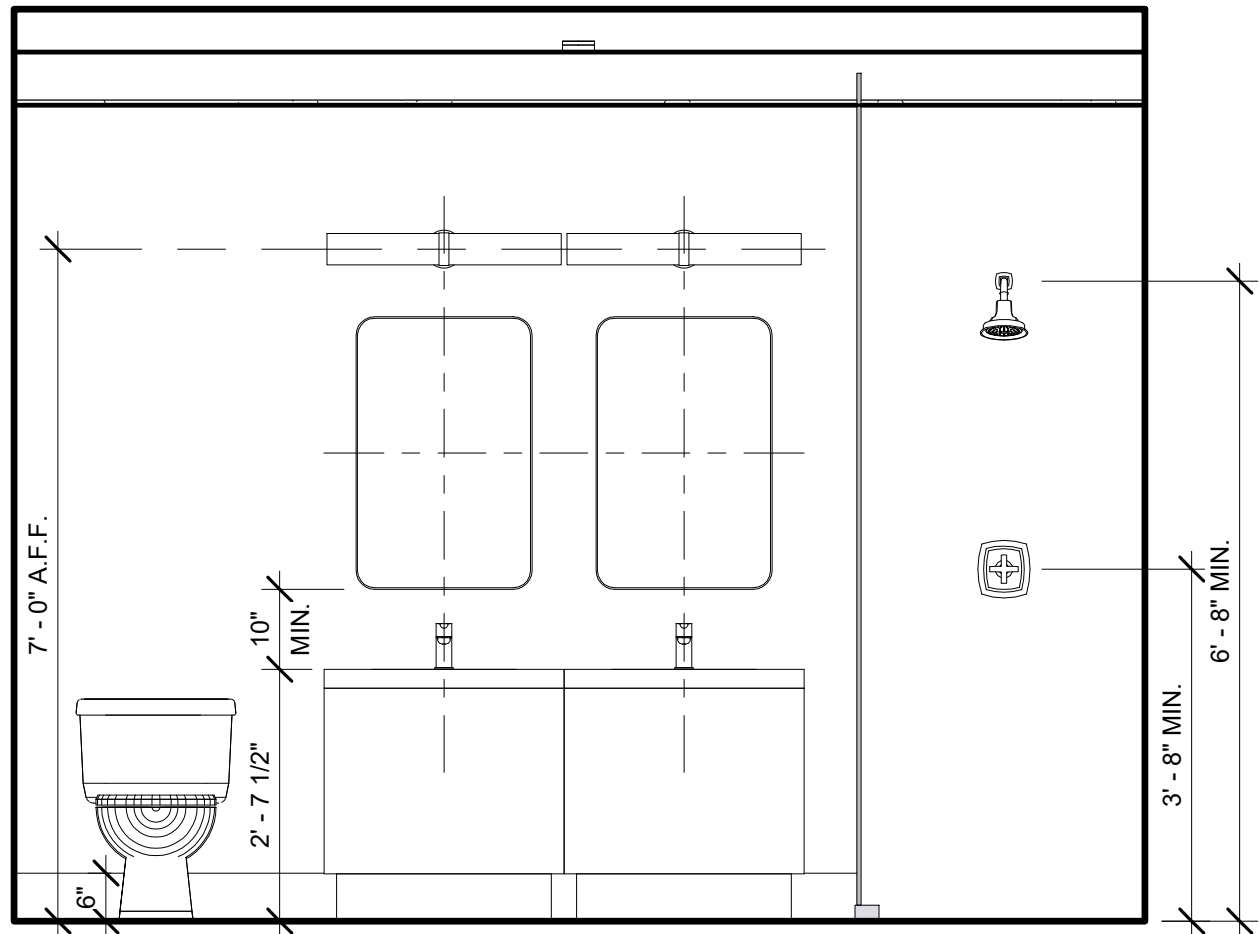
1 ENLARGED BATHROOM PLAN (1) - UNIT 401
1/2" = 1'-0"



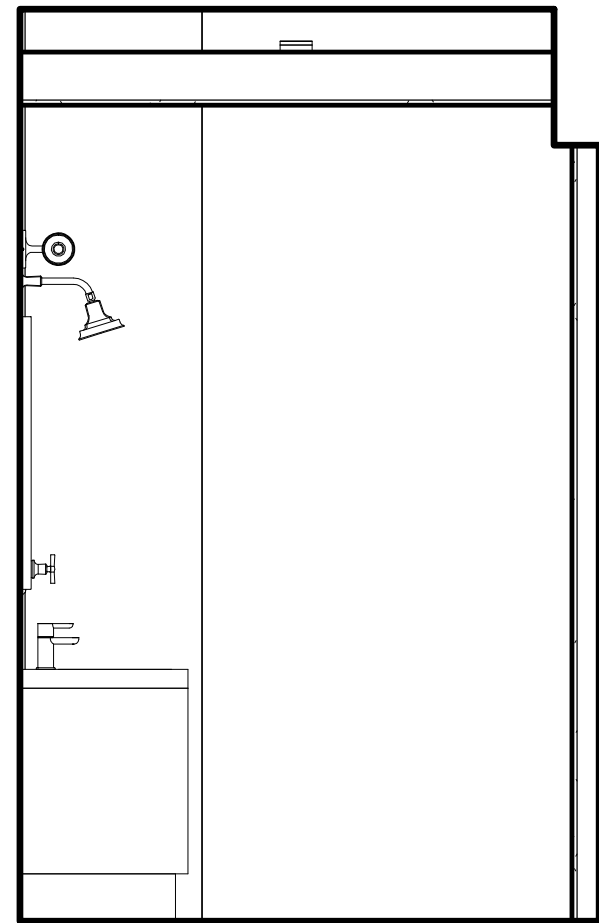
2 UNIT 401 - BATHROOM (1) ELEVATION 1
1/2" = 1'-0"



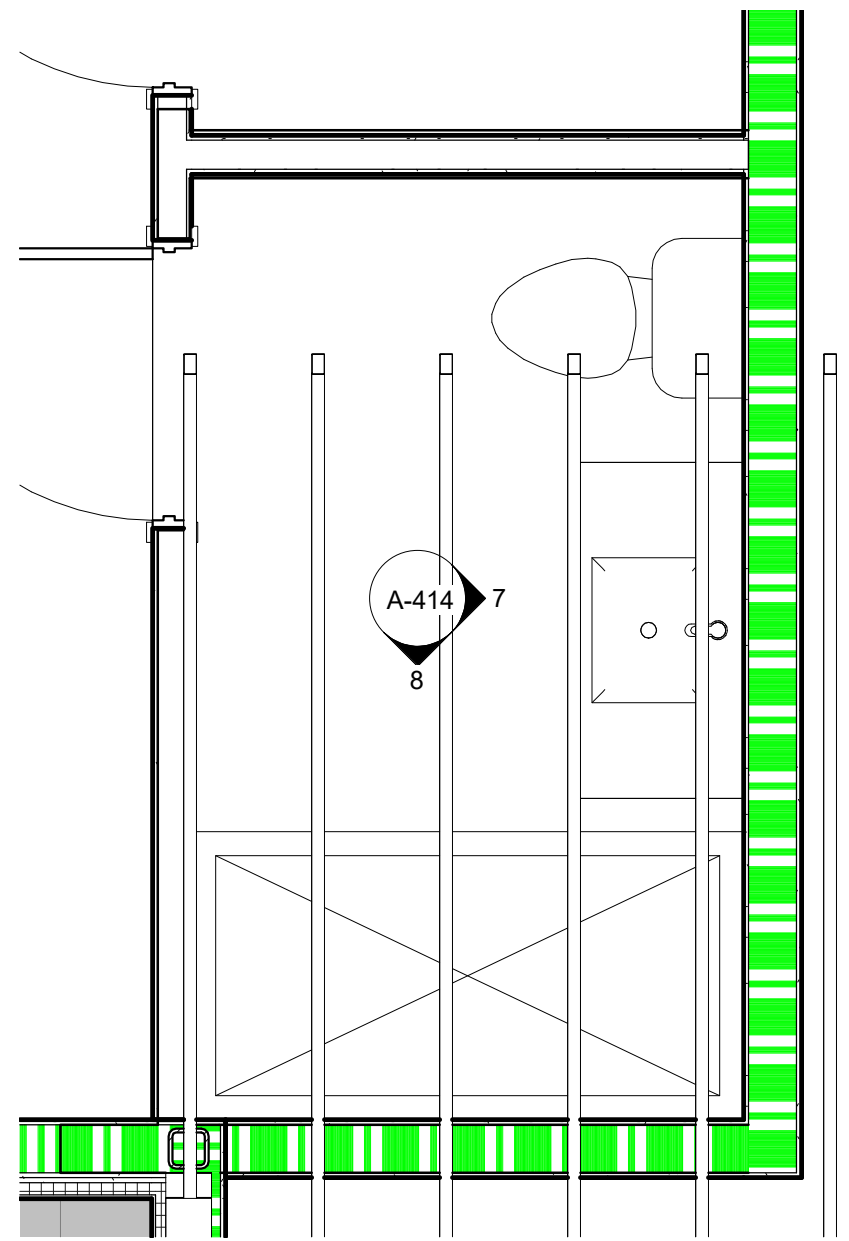
3 ENLARGED BATHROOM PLAN (2) - UNIT 401
1/2" = 1'-0"



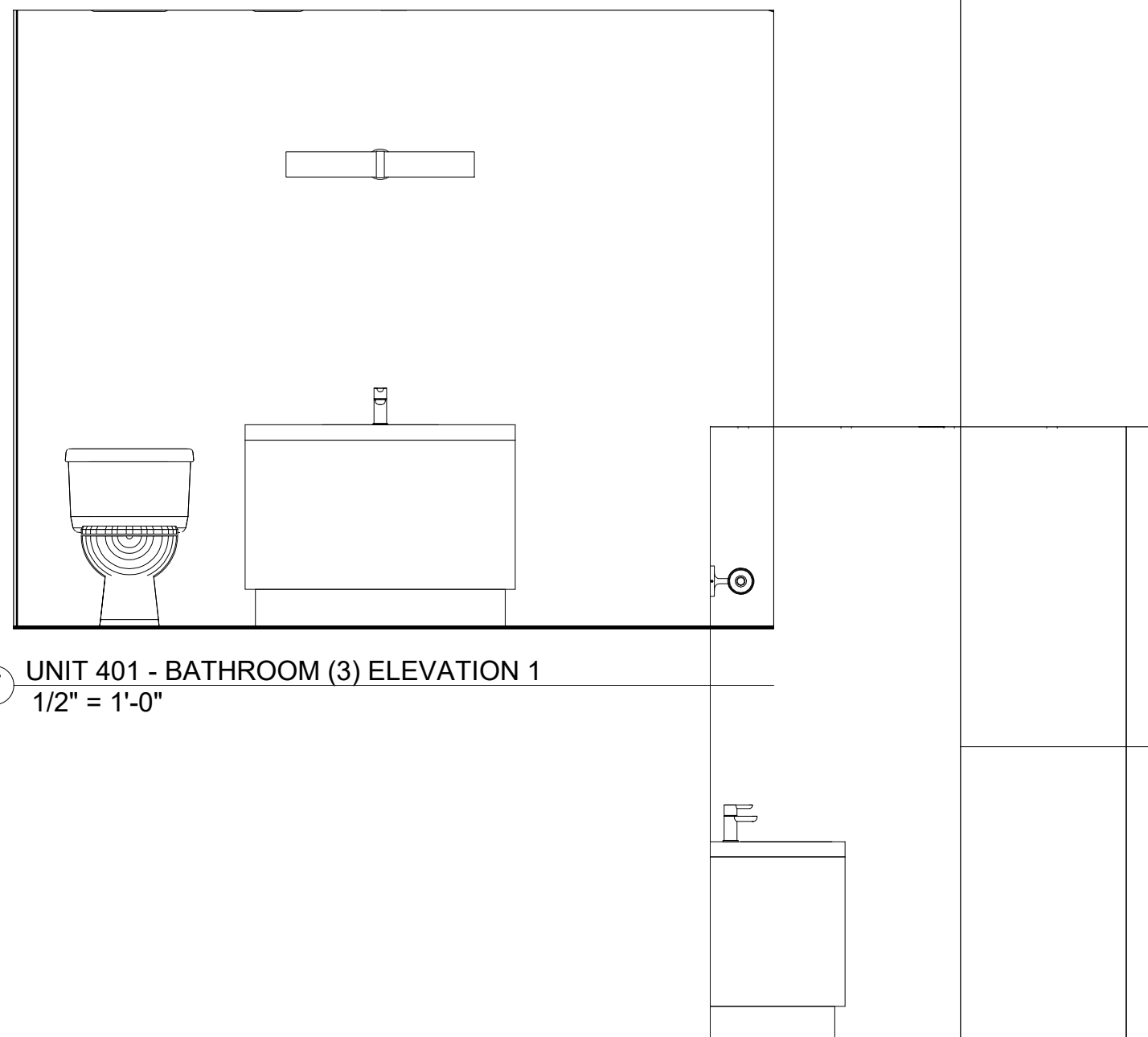
4 UNIT 401 - BATHROOM (2) ELEVATION 1
1/2" = 1'-0"



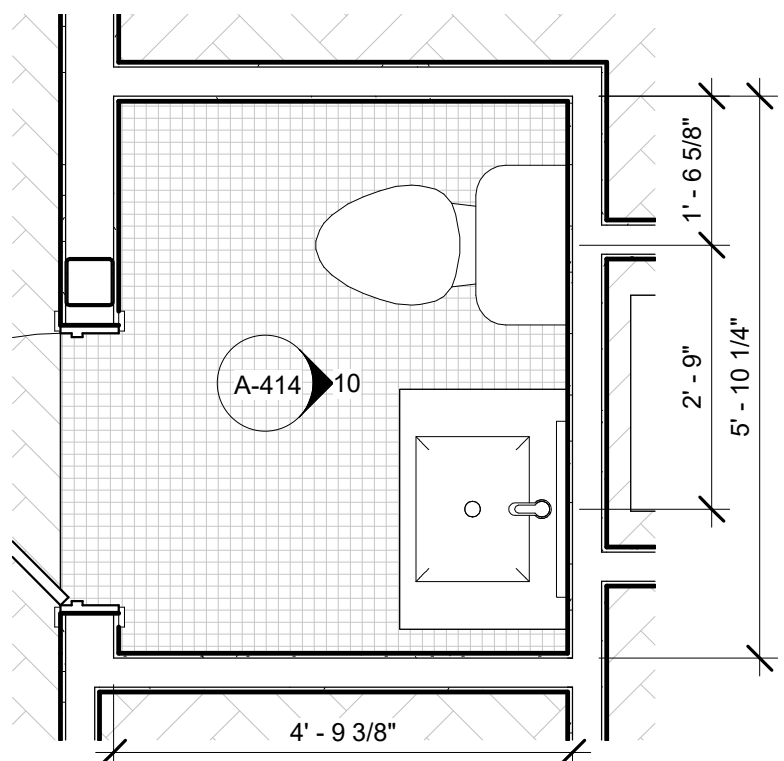
5 UNIT 401 - BATHROOM (2) ELEVATION 2
1/2" = 1'-0"



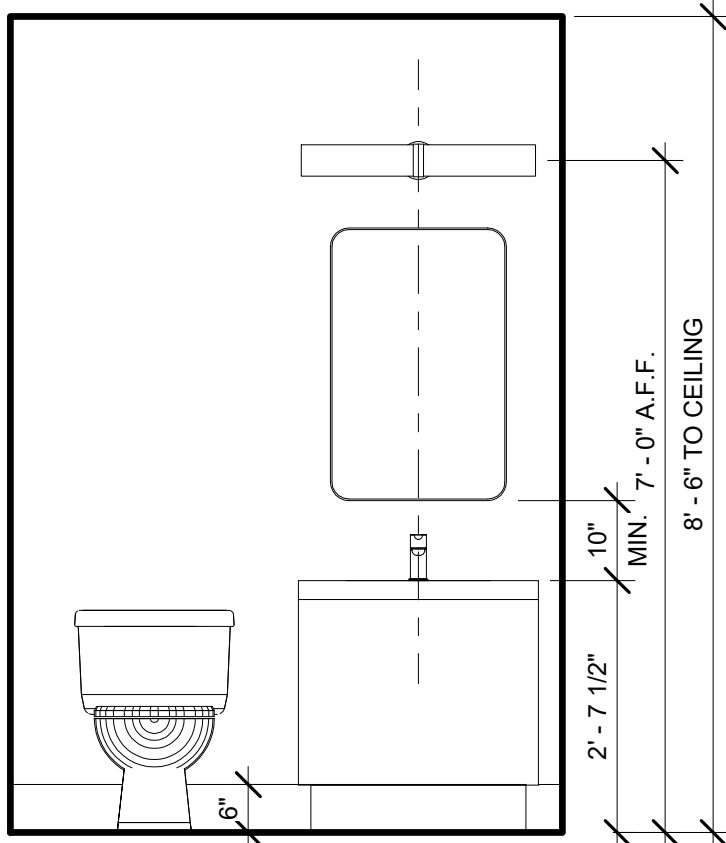
6 ENLARGED BATHROOM PLAN (3) - UNIT 401
1/2" = 1'-0"



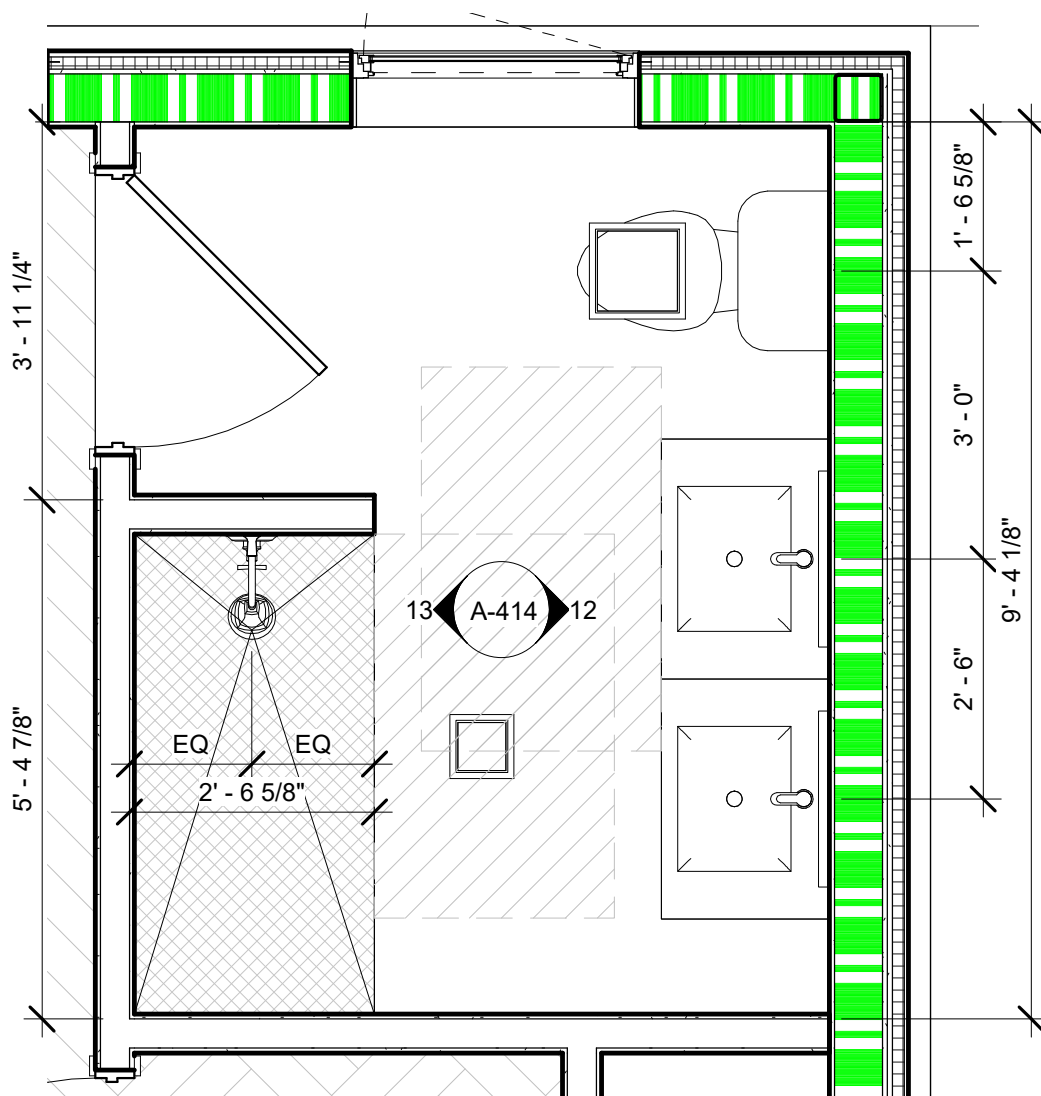
7 UNIT 401 - BATHROOM (3) ELEVATION 1
1/2" = 1'-0"



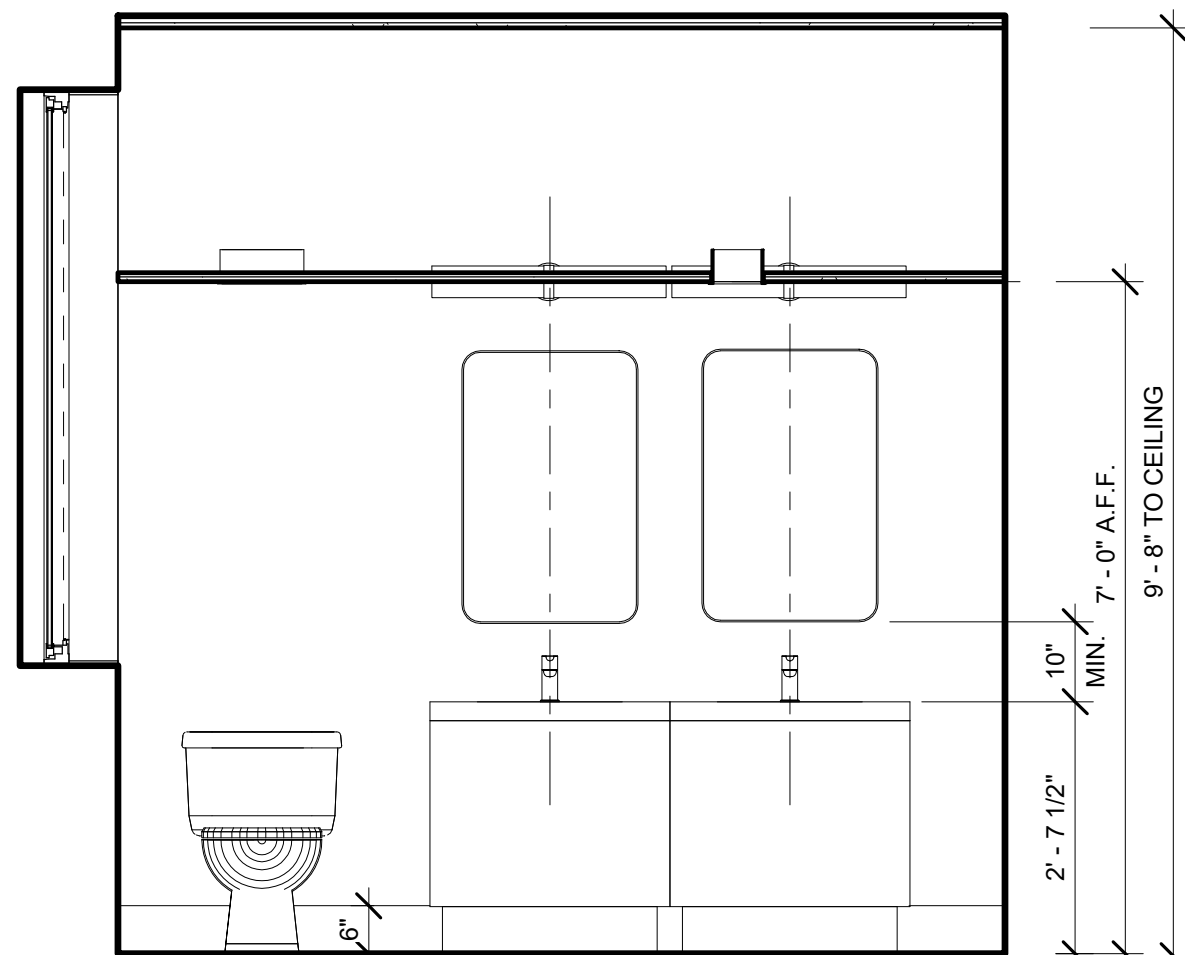
9 ENLARGED BATHROOM PLAN (1) - UNIT 402
1/2" = 1'-0"



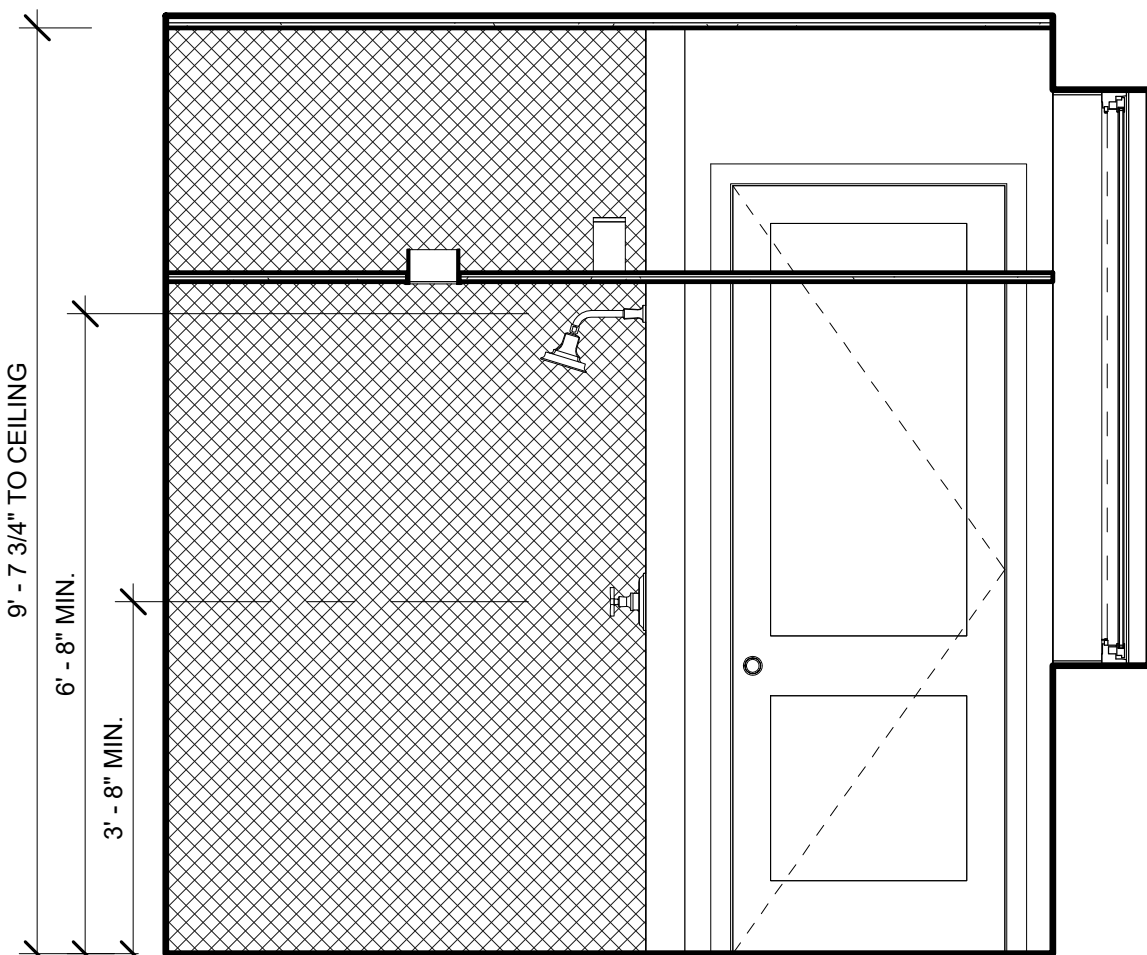
10 UNIT 402 - BATHROOM (1) ELEVATION 1
1/2" = 1'-0"



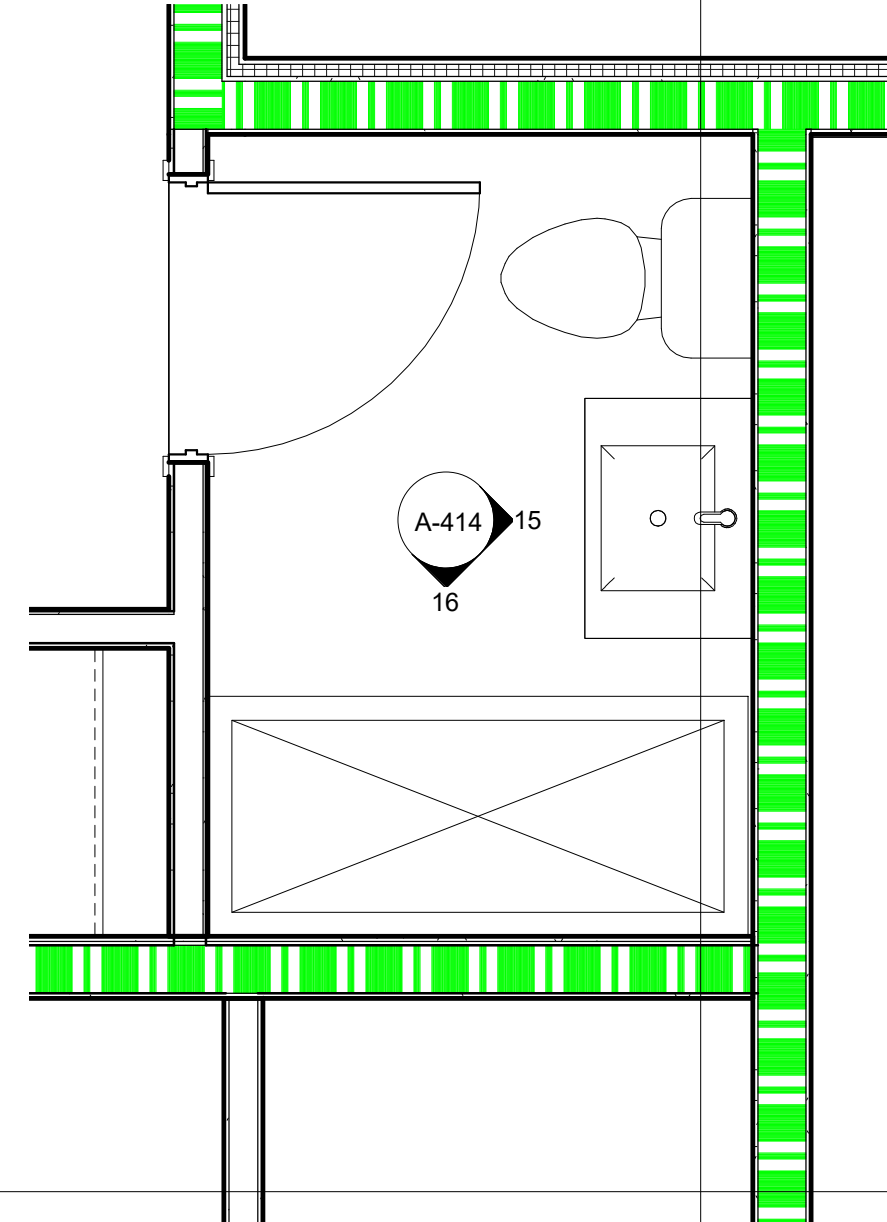
11 ENLARGED BATHROOM PLAN (2) - UNIT 402
1/2" = 1'-0"



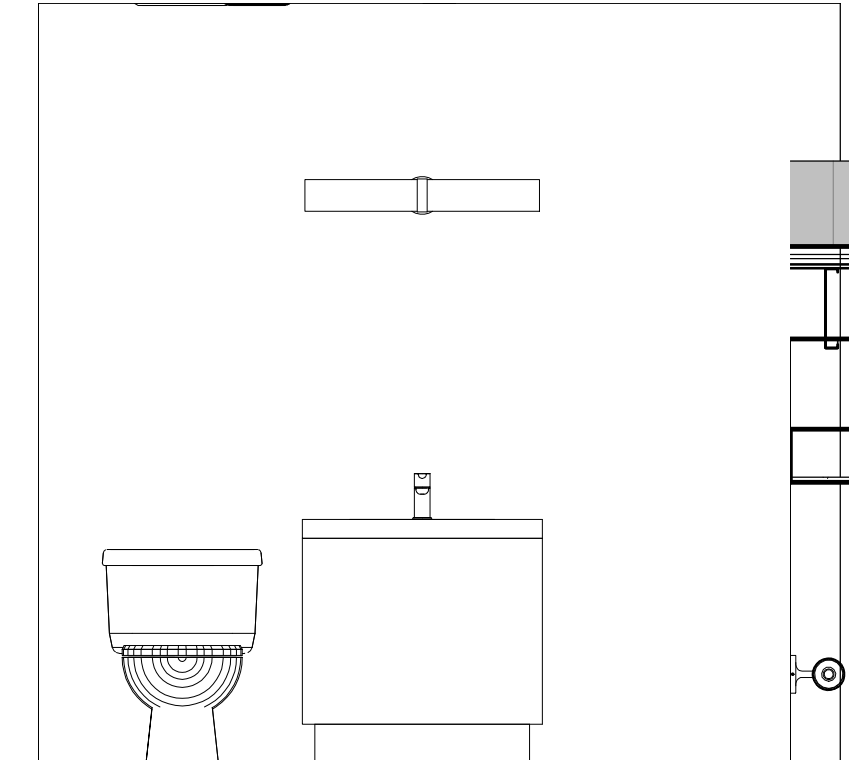
12 UNIT 402 - BATHROOM (2) ELEVATION 1
1/2" = 1'-0"



13 UNIT 402 - BATHROOM (2) ELEVATION 2
1/2" = 1'-0"



14 ENLARGED BATHROOM PLAN (3) - UNIT 402
1/2" = 1'-0"



15 UNIT 402 - BATHROOM (3) ELEVATION 1
1/2" = 1'-0"

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ROOF TOP ADDITION

AT

408 MARTIN LUTHER KING JR. BLVD.

BATHROOM PLANS AND ELEVATIONS

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A-414

AT
408 MARTIN LUTHER KING JR. BLVD.
SECTION DETAILS

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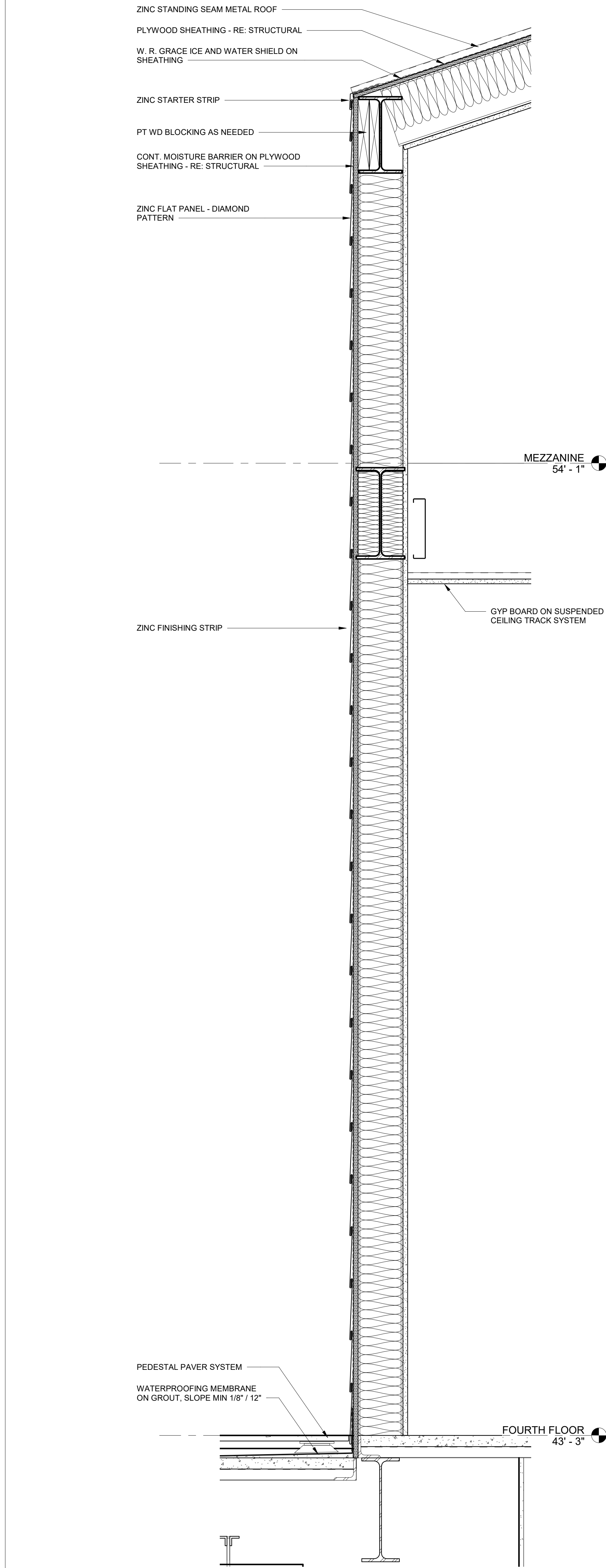
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E DATE

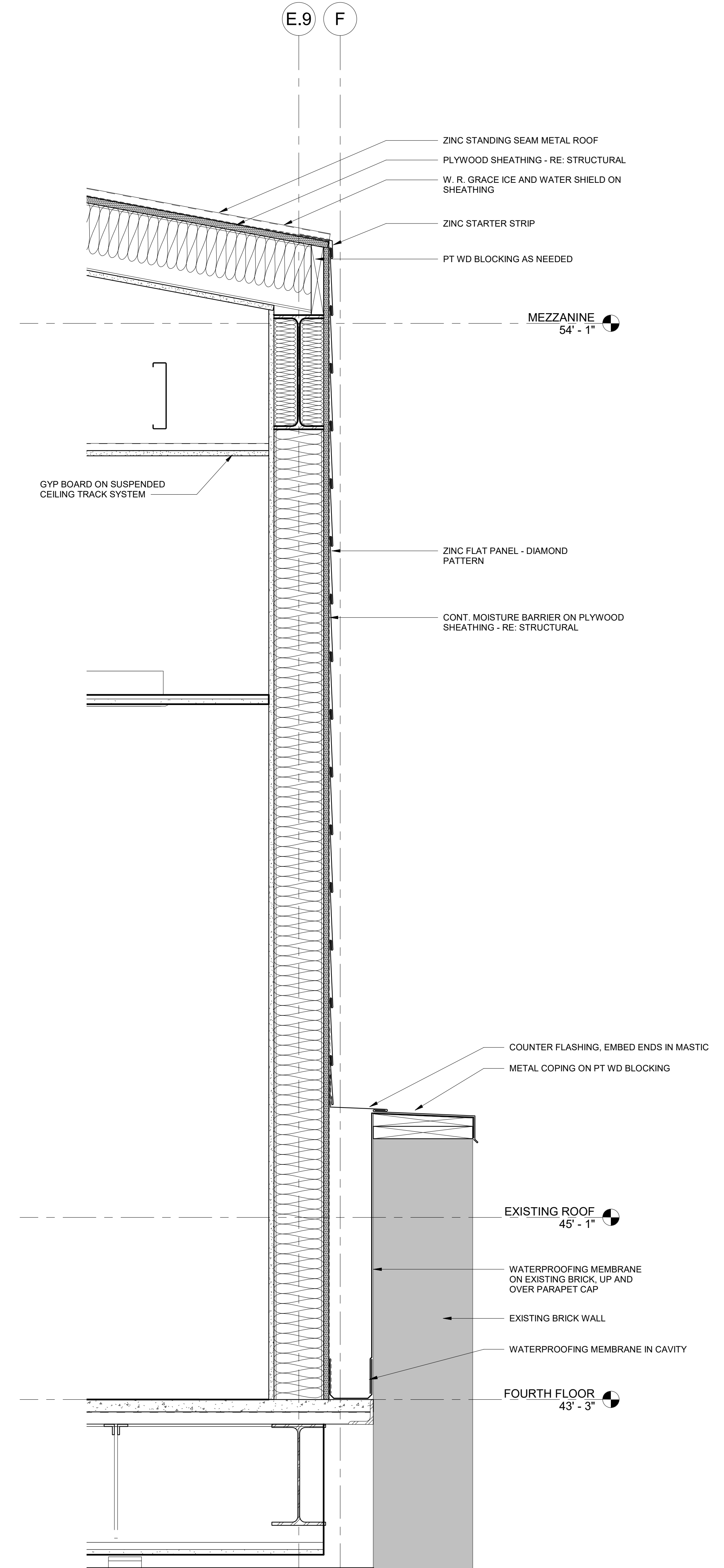
024.01.29

CONSTRUCTION
DOCUMENTS

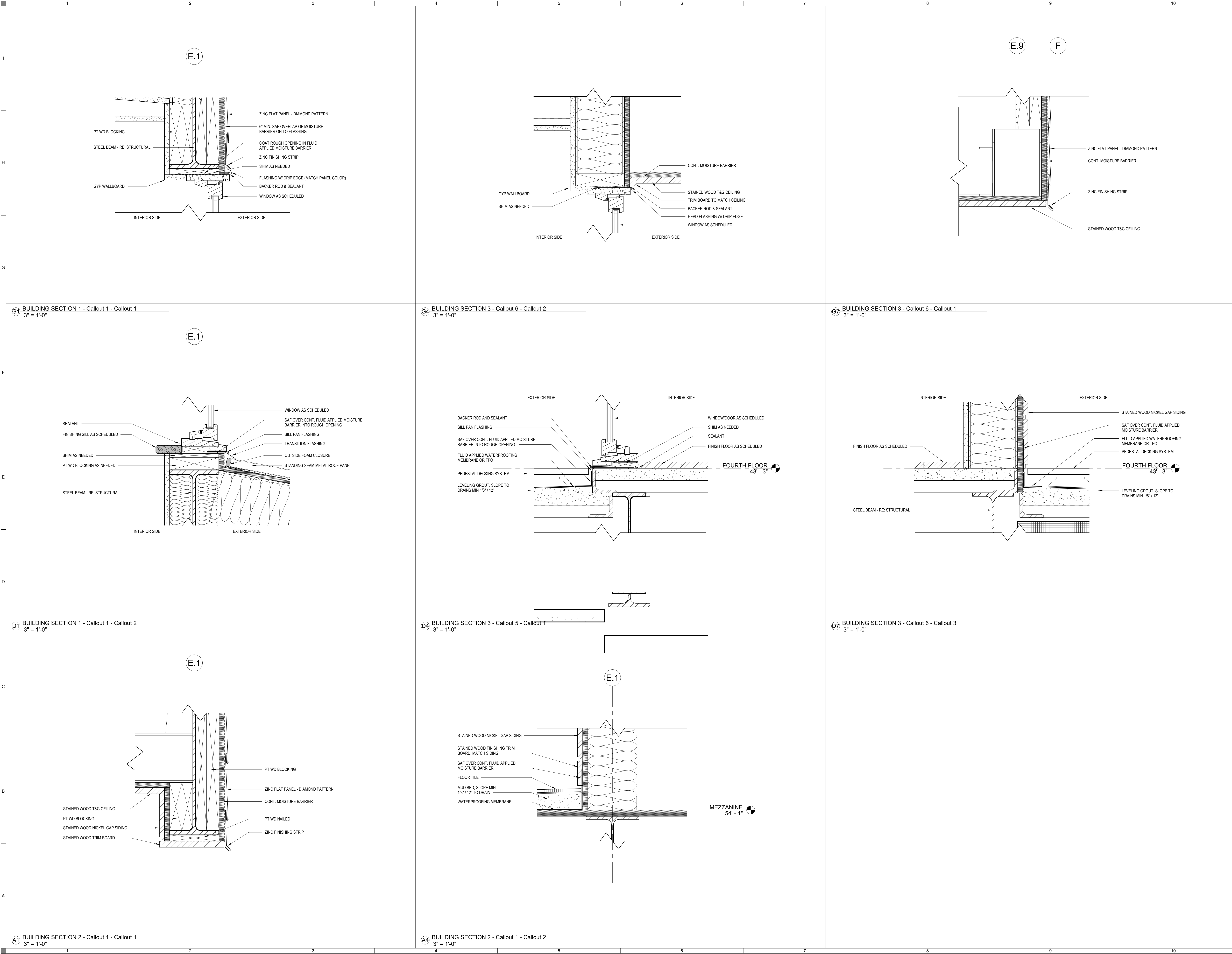
A-502



A4 BUILDING SECTION 3 - Callout 1
1 1/2" = 1'-0"



A7 BUILDING SECTION 3 - Callout 2
1 1/2" = 1'-0"



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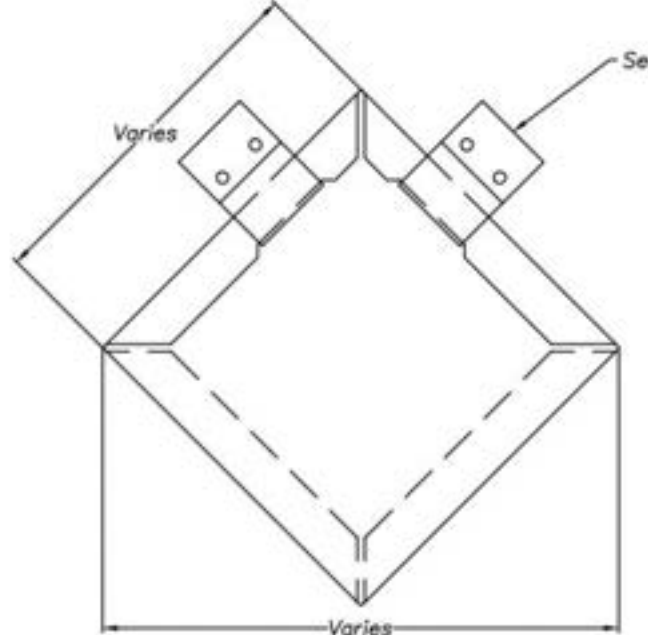
3

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METAL WALL CLADDING



See dwg no. MT_FWP_1013

NOTE: Recommended fastener is MT100 Clip. Spacing is determined by project.

NOTE:
Information and details are only a baseline for system and installation. Modification to meet project requirement is the responsibility of the designer, architect and contractor. MetalTech Global project staff are available to assist throughout the design and build process. © MetalTech Global. All rights reserved.

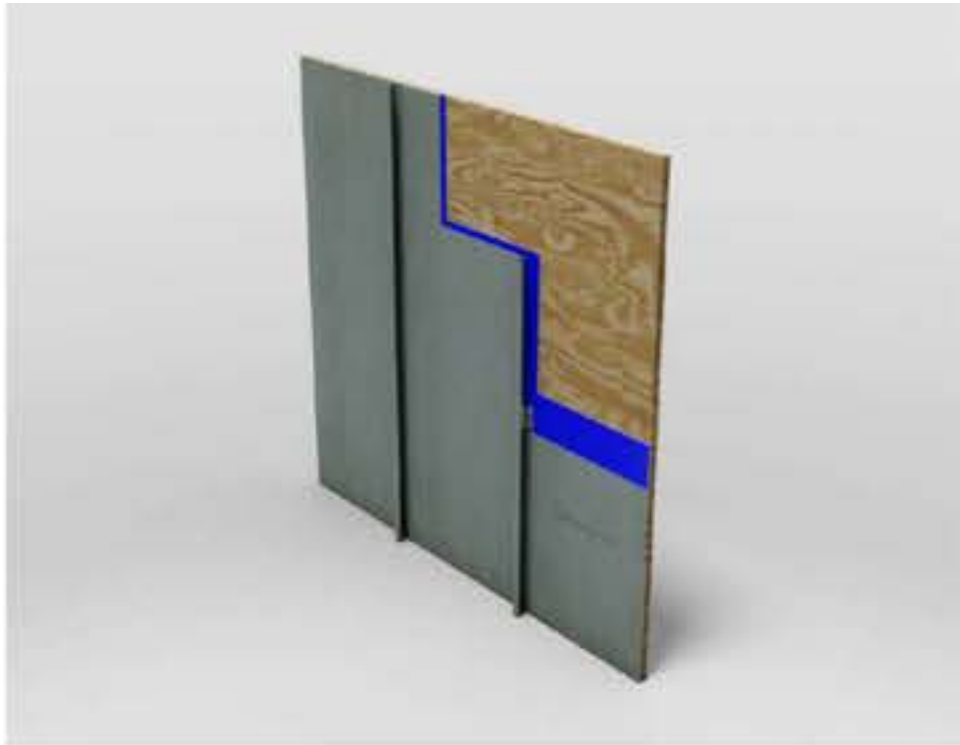
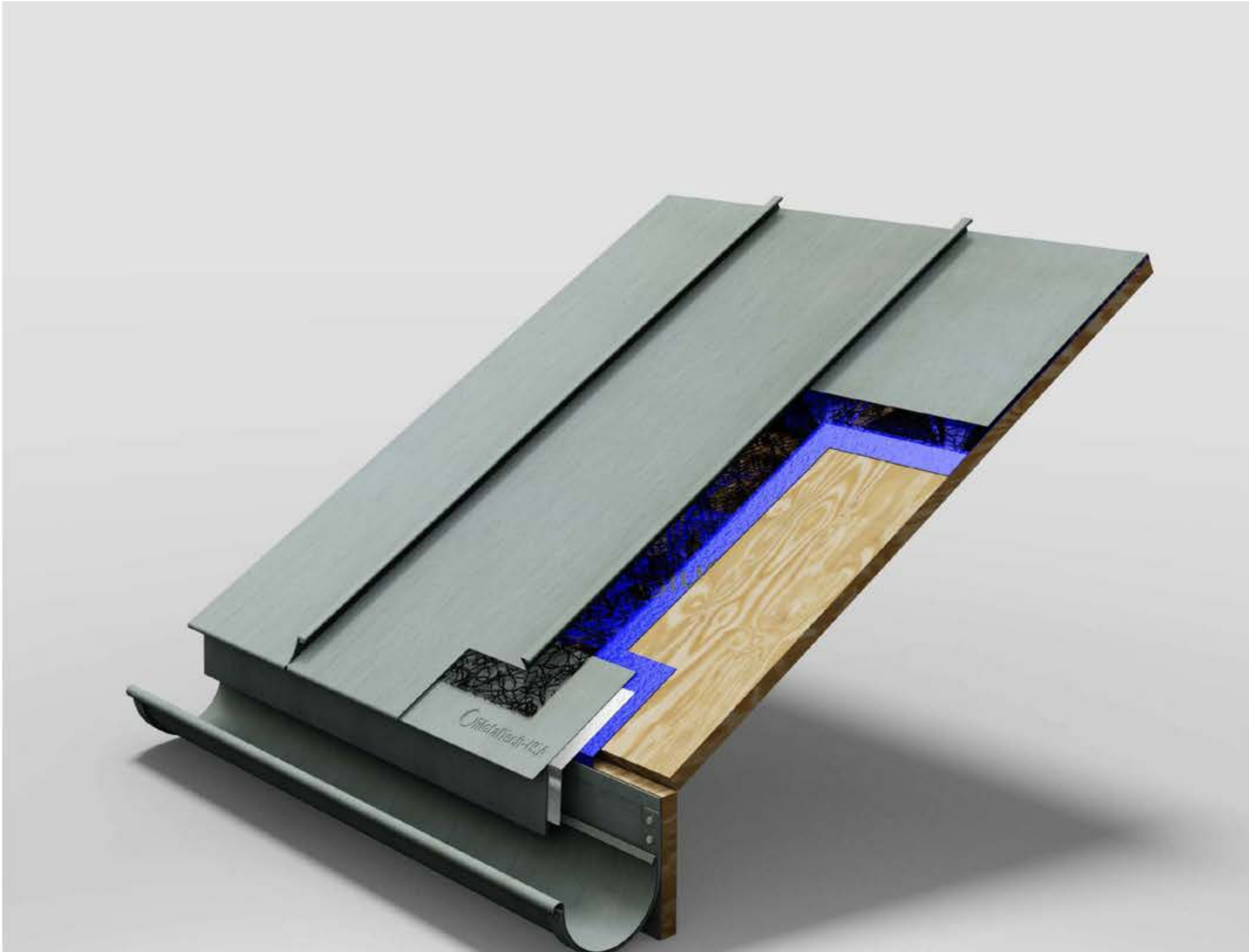
	DRAWING NAME: SQUARE DIAMOND FLATLOCK (FOLDED)		REVISION NO: A	DATED CREATED: 9/15/2014
	DWG NO: MT_FWP_1007		CHECKED BY: ESIMONSEN	APPROVED BY: ESIMONSEN
	PROJECT NAME: GENERAL DETAILS			
	SCALE: NTS	SHEET NO: 7 OF 16	SIZE: A	TOLERANCES: ANGULAR ±1° LINEAR ±0.06



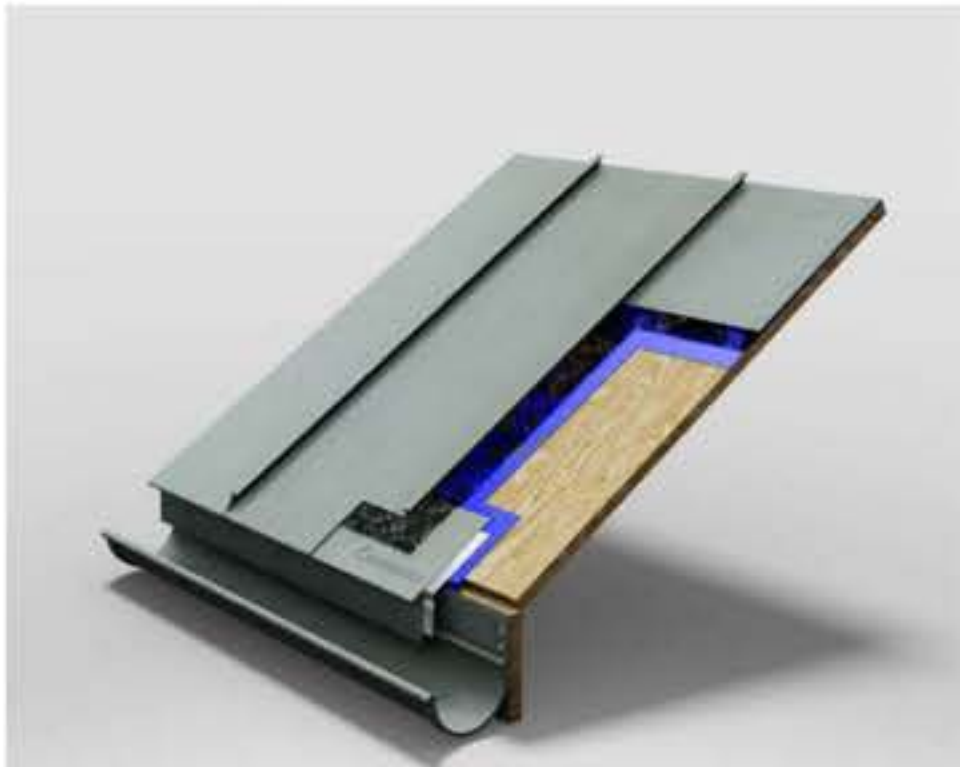
Camp Southern Ground Dining Hall
Location: Fayetteville, GA
Project Type: Exterior Facade
System: Square Diamond Flat Lock Panels
Material: Zinc Slate
Architect: Perkins + Will



STANDING SEAM METAL ROOF



Standing Seam Panel
Material: Available in all
EcoChoice Materials
Applications: Roof + Facade



NO.	DESCRIPTION	DATE

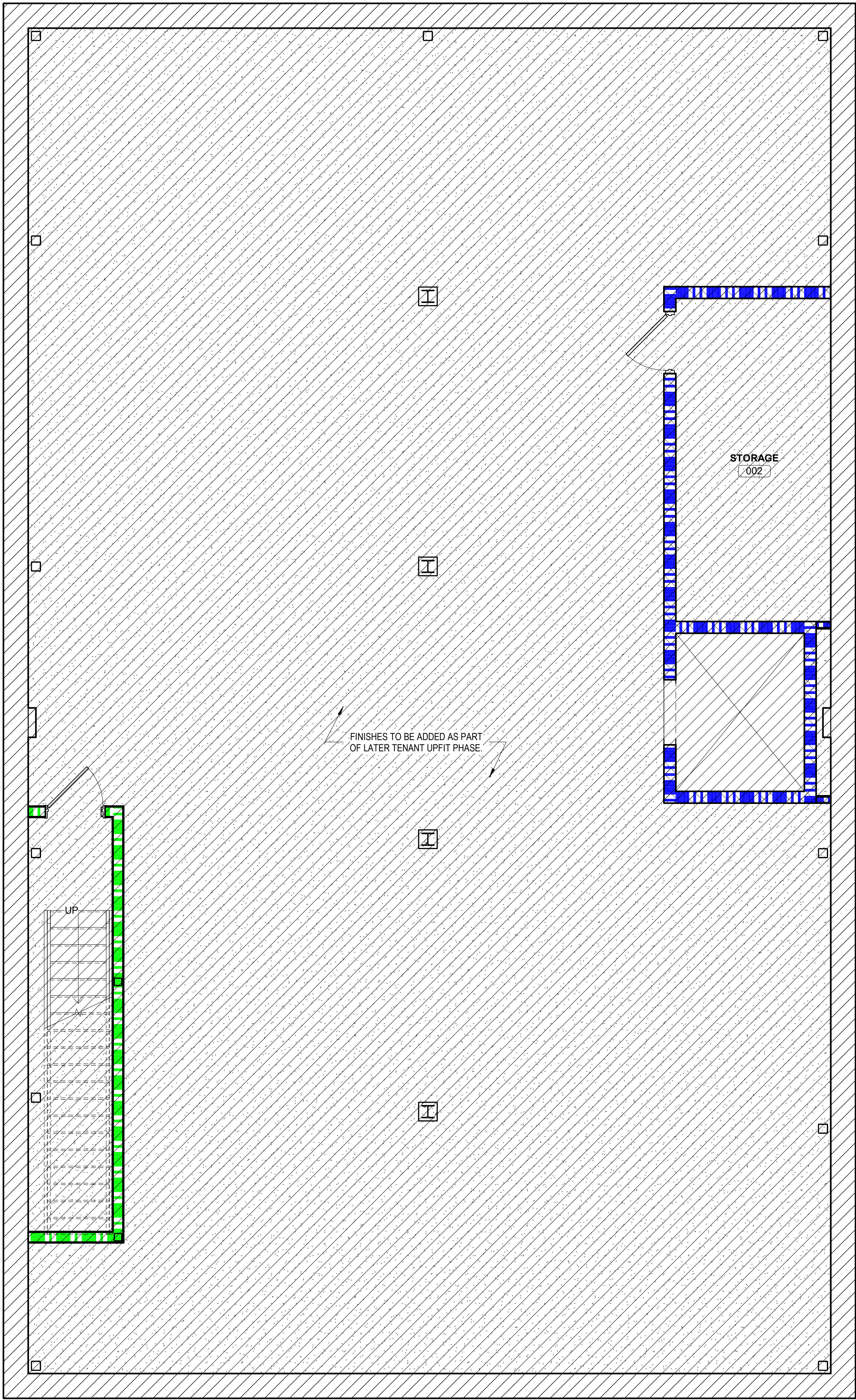
FINISH PLAN TYP. NOTES

1. SEE ENLARGED PLANS, ELEVATIONS, AND NOTES FOR TILE LOCATIONS AND HEIGHT EXTENTS.
2. FINISHES SHALL BE APPROVED BY OWNER AND ARCHITECT PRIOR TO ORDER AND INSTALLATION.
3. ALL TRANSITIONS IN PUBLIC USE AREAS BETWEEN FLOOR FINISHES SHALL MEET ADA REQUIREMENTS.

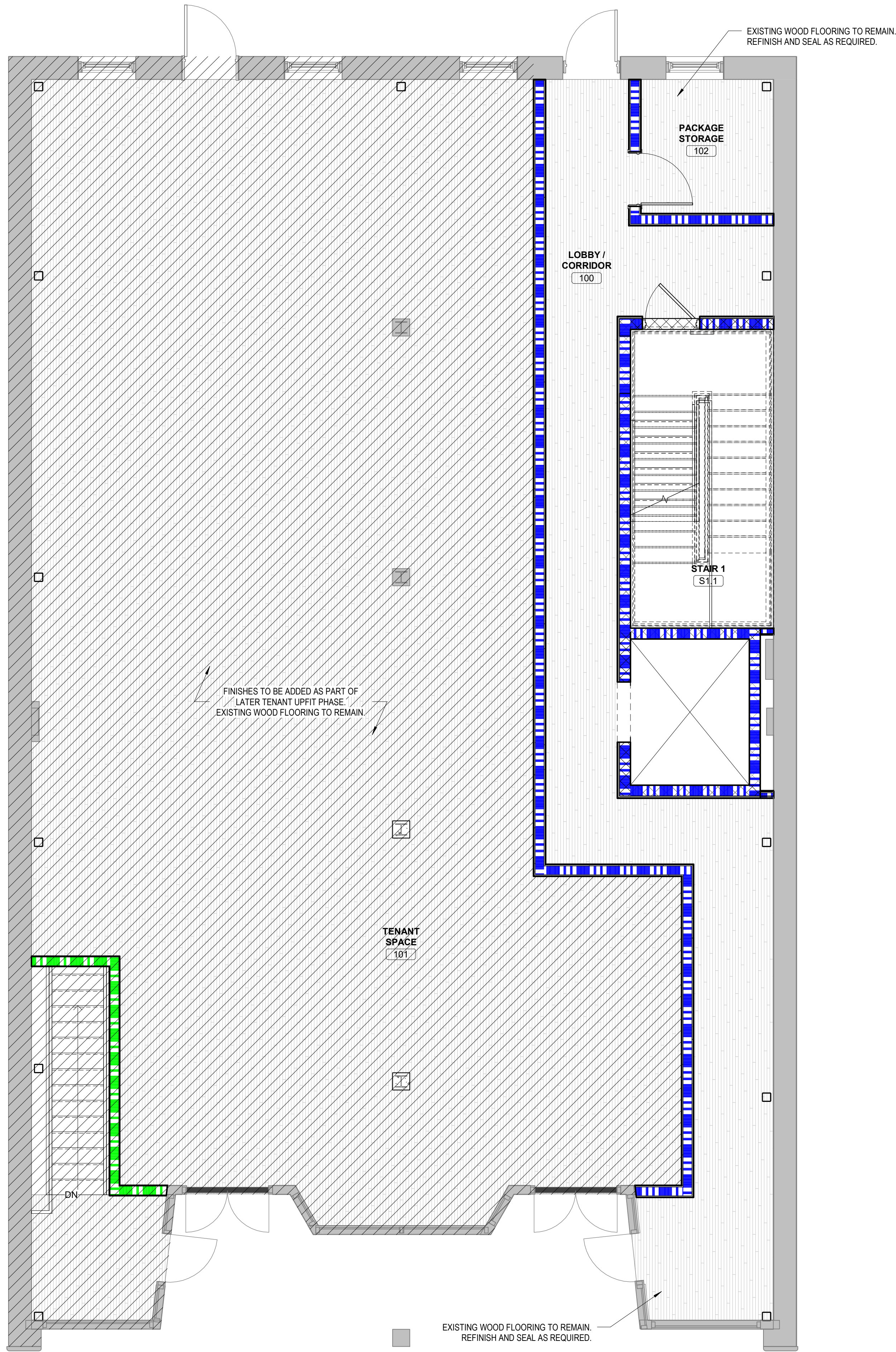
FINISH PLAN LEGEND

- EPOXY COATED CONCRETE
- HARDWOOD 1'-5" X 72" HERRINGBONE ENGINEERED HARDWOOD PLANK
- TILE 2 - 1" X 4" HERRINGBONE TILE
- TILE 3 - 12" X 24" PORCELAIN TILE
- TILE 4 - 12" X 24" STONE TILE
- TILE 5 - PENNY TILE MOSAIC
- TILE 6 - HEXAGON TILE 1" X 1"
- TILE 7 - 24" X 24" PORCELAIN TILE CHECKERBOARD
- TILE 8 - 12" X 24" STANZA TILE
- TILE 9 - TILE TBD
- WALL FINISH TAG - SEE SHEET A-710 FOR WALL FINISH TYPES
- EDGE OF SOFFIT / TRAY CEILING ABOVE

1 BASEMENT FINISH PLAN
1/4" = 1'-0"



2 FIRST FLOOR FINISH PLAN
1/4" = 1'-0"



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ROOF TOP ADDITION

AT

408 MARTIN LUTHER KING JR. BLVD.

BASEMENT AND FIRST FINISH PLAN

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2022

JOB NUMBER

CONTRACT DATE

REVISIONS

NO.	DESCRIPTION	DATE

ISSUE DATE

2024.01.29

CURRENT DRAWING STATUS

CONSTRUCTION
DOCUMENTS

A-701

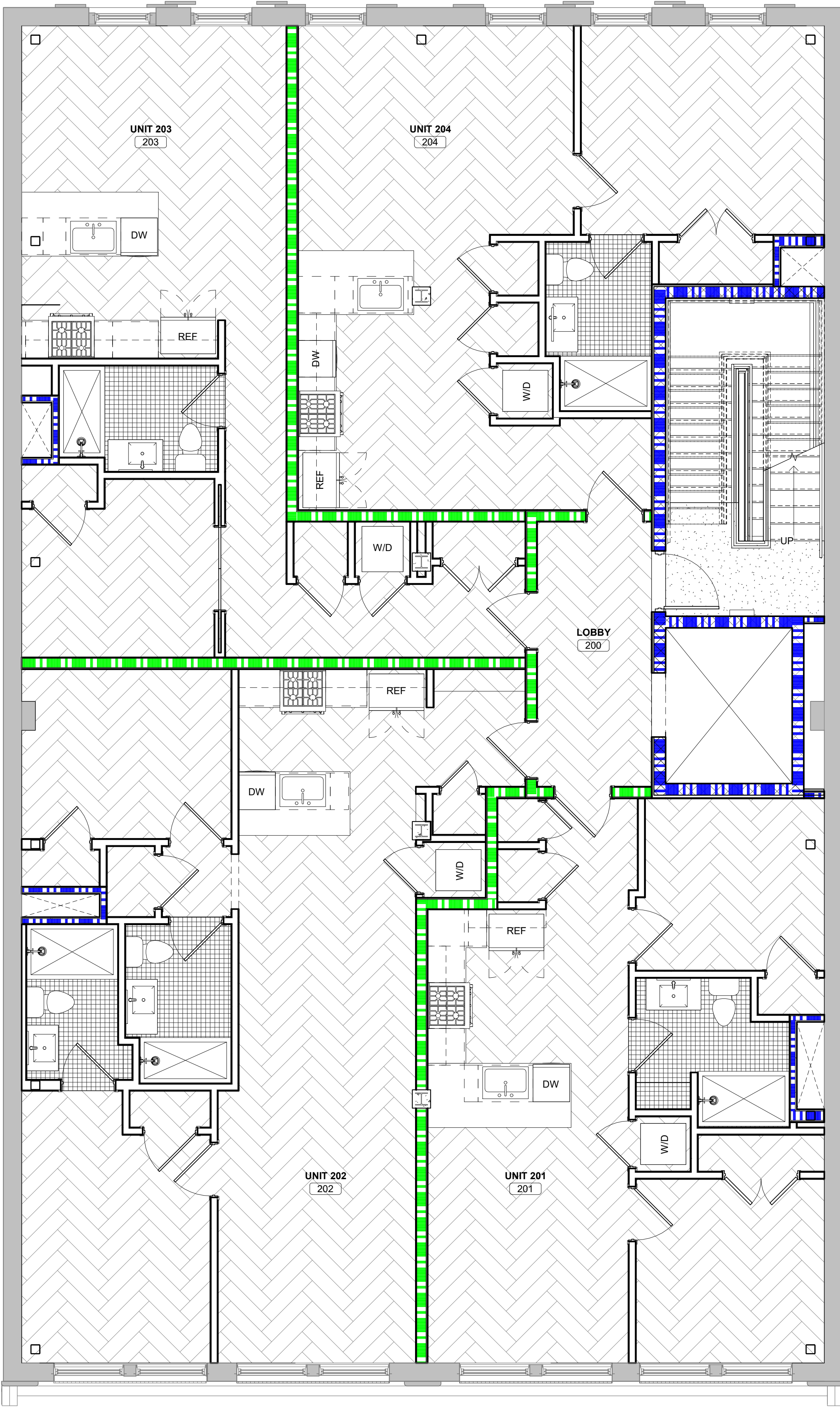
FINISH PLAN TYP. NOTES

1. SEE ENLARGED PLANS, ELEVATIONS, AND NOTES FOR TILE LOCATIONS AND HEIGHT EXTENTS.
2. FINISHES SHALL BE APPROVED BY OWNER AND ARCHITECT PRIOR TO ORDER AND INSTALLATION.
3. ALL TRANSITIONS IN PUBLIC USE AREAS BETWEEN FLOOR FINISHES SHALL MEET ADA REQUIREMENTS.

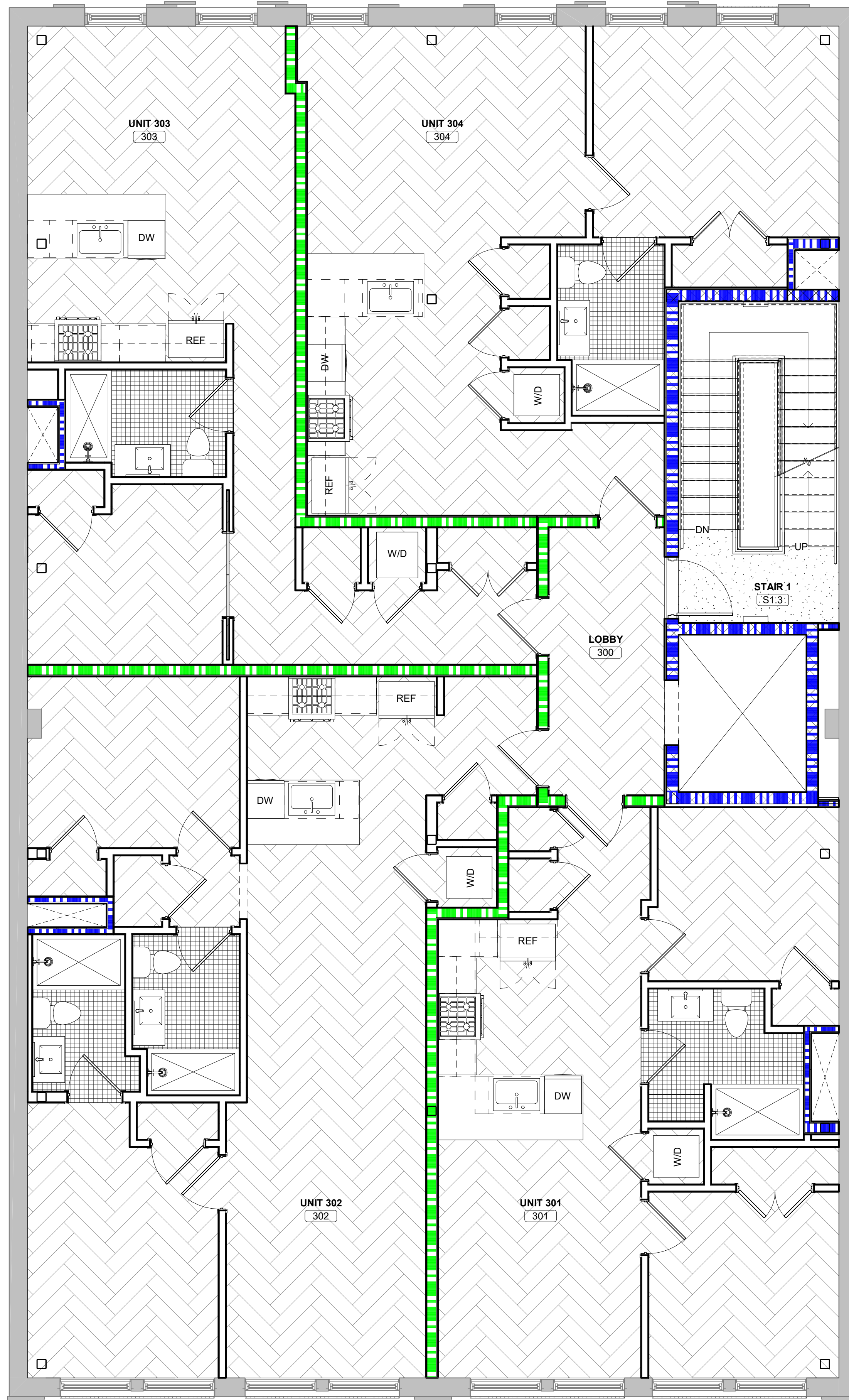
FINISH PLAN LEGEND

- EPOXY COATED CONCRETE
- HARDWOOD 1 - 5" X 72" HERRINGBONE ENGINEERED HARDWOOD PLANK
- TILE 2 - 1" X 4" HERRINGBONE TILE
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- TILE 6 - HEXAGON TILE 1" X 1"
- TILE 7 - 24" X 24" PORCELAIN TILE CHECKERBOARD
- TILE 8 - 12" X 24" STANZA TILE
- TILE 9 - TILE TBD
- WALL FINISH TAG - SEE SHEET A-710 FOR WALL FINISH TYPES
- EDGE OF SOFFIT / TRAY CEILING ABOVE

1 SECOND FLOOR FINISH PLAN
1/4" = 1'-0"



2 THIRD FLOOR FINISH PLAN
1/4" = 1'-0"



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ROOF TOP ADDITION

AT

408 MARTIN LUTHER KING JR. BLVD.

SECOND AND THIRD FLOOR FINISH PLAN

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JOB NUMBER

CONTRACT DATE

REVISIONS

NO.	DESCRIPTION	DATE

ISSUE DATE

2024.01.29

CURRENT DRAWING STATUS

CONSTRUCTION
DOCUMENTS

A-702

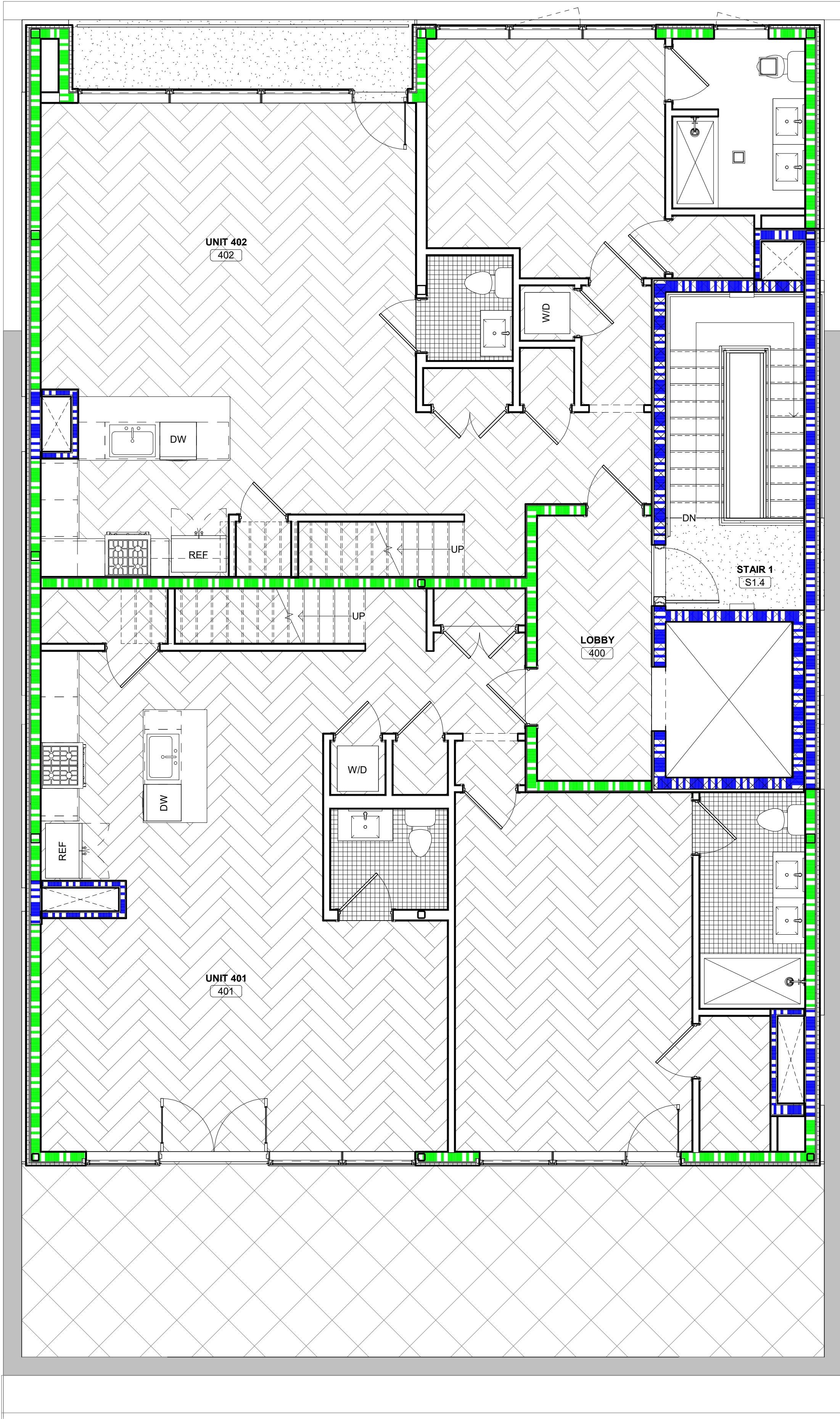
FINISH PLAN TYP. NOTES

1. SEE ENLARGED PLANS, ELEVATIONS, AND NOTES FOR TILE LOCATIONS AND HEIGHT EXTENTS.
2. FINISHES SHALL BE APPROVED BY OWNER AND ARCHITECT PRIOR TO ORDER AND INSTALLATION.
3. ALL TRANSITIONS IN PUBLIC USE AREAS BETWEEN FLOOR FINISHES SHALL MEET ADA REQUIREMENTS.

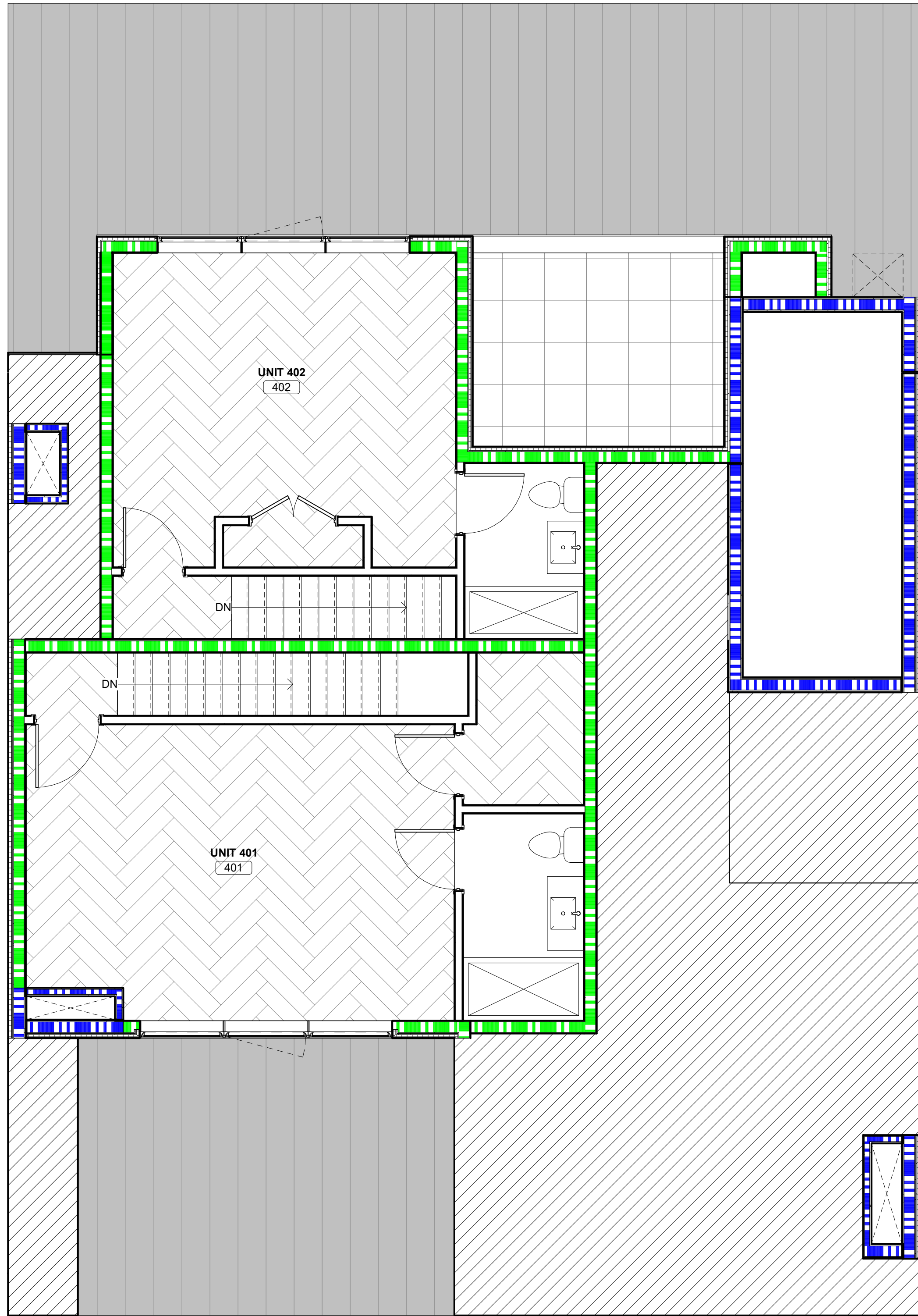
FINISH PLAN LEGEND

- EPOXY COATED CONCRETE
- HARDWOOD 1 - 5" X 72" HERRINGBONE ENGINEERED HARDWOOD PLANK
- TILE 2 - 1" X 4" HERRINGBONE TILE
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- TILE 6 - HEXAGON TILE 1" X 1"
- TILE 7 - 24" X 24" PORCELAIN TILE CHECKERBOARD
- TILE 8 - 12" X 24" STANZA TILE
- TILE 9 - TILE TBD
- WALL FINISH TAG - SEE SHEET A-710 FOR WALL FINISH TYPES
- EDGE OF SOFFIT / TRAY
CEILING ABOVE

1 FOURTH FLOOR FINISH PLAN
1/4" = 1'-0"



2 MEZZANINE FINISH PLAN
1/4" = 1'-0"



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ROOF TOP ADDITION

AT

408 MARTIN LUTHER KING JR. BLVD.

FOURTH FLOOR AND MEZZANINE FINISH PLAN

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2022

JOB NUMBER

CONTRACT DATE

REVISIONS

NO.	DESCRIPTION	DATE

ISSUE DATE

2024.01.29

CURRENT DRAWING STATUS

CONSTRUCTION
DOCUMENTS

A-703

GENERAL MECHANICAL SYMBOLS		
	REVISION NUMBER - SHOWN ON PLANS	
	POINT WHERE NEW CONNECTS TO EXISTING	
	NUMBER OF DETAIL ON SHEET	
	NUMBER OF SHEET WHERE DETAIL APPEARS	
	KEYNOTE	
	CONTINUATION SYMBOL	
	ROOM NAME AND NUMBER	
	ITEM TO BE DEMOLISHED	
	AREA NOT IN CONTRACT	
	PIPE SIZE TAG (DIAMETER)	
	ABOVE GROUND PIPING	
	PIPE SLOPE TAG	
	BELOW GROUND PIPING	
	PIPE INVERT ELEVATION TAG	
	EXISTING PIPE TAG	
	PIPING BEING DEMOLISHED	

ABBREVIATIONS			
Ø	ROUND	LVR	LOUVER
ABV	ABOVE	MAX	MAXIMUM
AD	AREA DRAIN	MD	MOTORIZED DAMPER
ADD	ADDENDUM	MECH	MECHANICAL
AFF	ABOVE FINISHED FLOOR	MFR	MANUFACTURER
ALT	ALTERNATE	MIN	MINIMUM
AP	ACCESS PANEL	MISC	MISCELLANEOUS
ARCH	ARCHITECT/ARCHITECTURAL	MTR	MOTOR
BFF	BELOW FINISHED FLOOR	NC	NORMALLY CLOSED
BLW	BELOW	NIC	NOT IN CONTRACT
CAP	CAPACITY	NO	NUMBER
CB	CATCH BASIN	NO	NORMALLY OPEN
CLG	CEILING	NTS	NOT TO SCALE
CO	CLEAN OUT	PD	PRESSURE DROP
CW	COLD WATER	PIV	POST INDICATOR VALVE
D	DEGREE	PRESS	PRESSURE
DIA	DIAMETER	PRV	PRESSURE REDUCING VALVE
DN	DOWN	PSI	POUNDS PER SQUARE INCH
EA	EACH	PSIG	POUNDS PER SQUARE INCH GAUGE
ELEC	ELECTRICAL	PWR	POWER
EQUIP	EQUIPMENT	REC	RECESSED
EJA	EXHAUST AIR	RED	REDUCER
F	DEGREES FAHRENHEIT	RM	ROOM
FDR	FLOOR DRAIN	RPM	REVOLUTIONS PER MINUTE
FDC	FIRE DEPARTMENT CONNECTION	SF	SQUARE FOOT
FL	FLOOR	SAN	SANITARY
FO	FUEL OIL	SD	SQUARE FOOT
FOV	FUEL OIL VENT	SM	SMOKE DAMPER
FOR	FUEL OIL RETURN	SM	SURFACE MOUNT
FOS	FUEL OIL SUPPLY	SP	STANDPIPE
FSM	FEET PER MINUTE	SP	STATIC PRESSURE
FT	FOOT/FEET	T	THERMOSTAT
GAL	GALLON	TD	TEMPERATURE DROP
GF	GAS FIRED	TEMP	TEMPERATURE
GC	GENERAL CONTRACTOR	TYP	TYPICAL
GPM	GALLONS PER MINUTE	UG	UNDERGROUND
HB	HOSE BIB	V	VENT
HP	HORSE POWER	VENT	VENTILATION
HTR	HEATER	W	WASTE
HYD	HYDRANT	WH	WALL HYDRANT
ID	INDIRECT		
IN	INCH		
INV	INVERT		
LB	POUND		

EQUIPMENT ABBREVIATIONS			
AC	AIR CONDITIONING UNIT	ET	EXPANSION TANK
ACCU	AIR COOLING CONDENSING UNIT	EWH	ELECTRIC WATER HEATER
AHU	AIR HANDLING UNIT	FCU	FAN COIL UNIT
AS	AIR SEPARATOR	FP	FIRE PUMP
B	BOLLER	GI	GREASE INTERCEPTOR
CH	CHILLER	GRV	GRAVITY ROOF VENTILATOR
CT	COOLING TOWER	HWP	HEATING WATER PUMP
CUH	CABINET UNIT HEATER	HRU	HEAT RECOVERY UNIT
CWP	CHILLED WATER PUMP	PRV	POWER ROOF VENTILATOR
DBP	DOMESTIC WATER BOOSTER PUMP	RE	RETURN EXHAUST FAN
DC	DUCT MOUNTED COIL	RTU	ROOFTOP UNIT
DCP	DOMESTIC WATER CIRCULATING PUMP	SP	SUMP PUMP
EF	EXHAUST FAN	SH	UNIT HEATER
EDC	ELECTRIC DUCT COIL	WH	WATER HEATER

NOTE
ALL OF GENERAL NOTES ON THIS SHEET ARE TO BE APPLIED TO ALL OTHER DRAWINGS IN THIS SET. THE SYMBOLS AND ABBREVIATIONS SHOWN ON THIS SHEET MAY OR MAY NOT BE USED IN THIS SET OF DRAWINGS.

FIRE PROTECTION SHEET INDEX	
F-000	FIRE PROTECTION TITLE SHEET
F-100	FIRE PROTECTION PLANS - BASEMENT AND 1ST FLOOR
F-101	FIRE PROTECTION PLANS - LEVELS 2 & 3
F-102	FIRE PROTECTION PLANS - LEVELS 4 & MEZZANINE

FIRE PROTECTION SYMBOLS	
	FIRE PROTECTION DRY
	FIRE PROTECTION OTHER
	FIRE PROTECTION PRE-ACTION
	FIRE PROTECTION WET
	COMBINATION FIRE & DOMESTIC
	UPRIGHT SPRINKLER HEAD
	PENDENT SPRINKLER HEAD
	RECESSED SPRINKLER HEAD
	CONCEALED SPRINKLER HEAD
	DRY SPRINKLER HEAD
	SIDEWALL SPRINKLER HEAD
	EXTENDED COVERAGE SIDEWALL SPRINKLER HEAD
	OBSTRUCTION FROM DUCTWORK 48" AND GREATER

	CHECK VALVE		FREESTANDING SIAMESE FIRE DEPARTMENT CONNECTION
	ALARM CHECK VALVE		SIAMESE FIRE DEPARTMENT CONNECTION
	TAMPER DETECTION VALVE		SINGLE FIRE DEPARTMENT CONNECTION
	DRY PIPE VALVE		RISER
	INDICATING BUTTERFLY VALVE		DOUBLE CHECK (OS&Y)
	POST INDICATOR VALVE		DOUBLE CHECK (BUTTERFLY W/ TAMPER)
	VALVE NONRISING STEM		REDUCED PRESSURE ZONE
	OS&Y VALVE		EQUIPMENT TAG
	PREACTION VALVE		
	DELUGE VALVE		
	THRUST BLOCK		
	PIPE ANCHOR		

PROJECT GENERAL NOTES	
A	COORDINATE INSTALLATION OF PIPING, DUCTWORK, CONDUIT, LIGHTS, CABLE TRAY, STRUCTURE, AND EQUIPMENT TO PREVENT CONFLICTS.
B	FINAL PRODUCT SHALL BE A COMPLETE AND FUNCTIONING SYSTEM, AND SHALL CONFORM TO ALL REQUIREMENTS OF APPLICABLE FEDERAL, STATE, AND LOCAL CODES, INCLUDING BUT NOT LIMITED TO THE INTERNATIONAL BUILDING CODE AND INTERNATIONAL MECHANICAL CODE.
C	LOCATE DUCTWORK, PIPING AND MECHANICAL EQUIPMENT AWAY FROM THE SPACE ABOVE ELECTRICAL PANELS, TRANSFORMERS AND OTHER ELECTRICAL EQUIPMENT.
D	PROVIDE SLEEVES AND/OR OPENINGS TO RUN PIPES AND DUCTS THROUGH FOUNDATIONS, FLOORS, WALLS, AND CEILING.
E	MAINTAIN CLEAR ACCESS TO SERVICE EQUIPMENT AND OTHER ACCESSORIES REQUIRING SERVICE, VISUAL INSPECTION OR HAND OPERATION, WHERE INDICATED OR REQUIRED, PROVIDE ACCESS PANELS OF THE TYPE SELECTED TO SUIT MATERIALS IN WHICH INSTALLED.
F	ADJUST PIPING AND DUCTWORK SIZES TO PROPERLY CONNECT TO MECHANICAL EQUIPMENT.
G	REFER TO HVAC SERIES DRAWINGS FOR GAS AND A.C. CONDENSATE DRAIN PIPING.
H	PIPE SIZES SHOWN SHALL BE CONTINUED IN THE DIRECTION OF FLOW UNTIL ANOTHER SIZE IS SHOWN.
I	FOR DETAILS, EQUIPMENT CONNECTIONS, AND PIPE SIZES NOT SHOWN ON THE SEGMENTS, REFER TO DETAILS, SCHEDULES, AND SPECIFICATIONS.
J	INSTALL ALL EQUIPMENT IN ACCORDANCE WITH THE RESPECTIVE MANUFACTURER'S WRITTEN INSTALLATION INSTRUCTIONS, AT A LEVEL OF QUALITY AND WORKMANSHIP CONSISTENT WITH THE SPECIFICATIONS.
K	ADJUST PIPING AND DUCTWORK SIZES TO PROPERLY CONNECT TO MECHANICAL EQUIPMENT.
L	INSTALL EXPOSED PIPING AND DUCTWORK AS HIGH AS PRACTICAL IN ROOMS WITHOUT CEILINGS.
M	THE CONTRACTOR'S WORK SCHEDULE SHALL BE SUBMITTED TO AND APPROVED BY THE OWNER.
N	PRIOR TO STARTING WORK, SUBMIT SHOP DRAWINGS FOR ALL MECHANICAL EQUIPMENT, PLUMBING FIXTURES, AND DIFFUSERS.
O	CONTRACTOR SHALL OBTAIN AND PAY FOR ALL NECESSARY PERMITS AND SHALL ARRANGE FOR ALL INSPECTIONS AS REQUIRED.
P	PROVIDE ONE YEAR WARRANTY FOR ALL WORKMANSHIP AND MATERIALS AFTER THE DATE OF FINAL ACCEPTANCE.
Q	LOCATE EQUIPMENT REQUIRING ACCESS 2'-0" MAXIMUM ABOVE CEILING.
R	ALL ROOF MOUNTED EQUIPMENT SHALL BE A MINIMUM 10'-0" FROM EDGE OF ROOF.
S	PENETRATIONS OF RATED ASSEMBLIES SHALL BE FIRE STOPPED. FIRE STOPPING SHALL BE AN APPROVED MATERIAL AS PRESCRIBED IN CSFM STANDARD 43-1 AND SHALL BE U.L. LISTED.
T	REMOVE ALL UNUSED PIPING, DUCTWORK AND ACCESSORIES.
U	THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD VERIFYING, PRIOR TO FINAL BID, ALL EXISTING CONDITIONS FOR PLUMBING AND MECHANICAL SYSTEMS WITHIN TENANT SPACE AND WITHIN CLOSE PROXIMITY OF TENANT SPACE.
V	THE MECHANICAL CONTRACTOR SHALL PERFORM SERVICE AND REPAIR ON THE EXISTING EQUIPMENT AND ITS ACCESSORIES AS FOLLOWS: CLEAN ALL COILS, REPLACE THE FILTERS AND BELTS, INSPECT, REPAIR, OR REPLACE THE ECONOMIZERS, DRIVES AND FAN BEARINGS, MOTORS, CONTROL COMPONENTS, VALVES AND ANY OTHER ITEM NECESSARY FOR A COMPLETE AND PROPER OPERATING SYSTEM. THIS CONTRACTOR SHALL ALSO VISIT THE SITE, PRIOR TO FINAL BIDDING, AND VERIFY ALL EXISTING SITE CONDITIONS. PROVIDE ALL MATERIAL AND COMPONENTS AS NEEDED TO BRING THE UNITS TO FULL COMPLIANCE OF THE LANDLORD'S CRITERIA AND LOCAL AUTHORITY HAVING JURISDICTION.
W	WHERE FLOOR DRAINS OCCUR WITHIN THE LIMITS OF CONSTRUCTION, PREVENT CONSTRUCTION DEBRIS FROM ENTERING DRAIN BODY BY SEALING DRAIN OPENING PRIOR TO START OF WORK. UNSEAL DRAINS AT COMPLETION OF CONSTRUCTION.
X	THE CONTRACTOR SHALL BE FAMILIAR WITH ALL THE CONDITIONS BOTH EXISTING AND THOSE ILLUSTRATED BY THESE DOCUMENTS AS WELL AS THOSE WHICH CAN BE REASONABLY ANTICIPATED INCLUDING, BUT NOT LIMITED TO ARCHITECTURAL, ELECTRICAL, VENTILATION, PLUMBING, AND OTHER SYSTEMS INVOLVED ON THIS PROJECT.
Y	WHERE HOUSE KEEPING PADS AND EXTERIOR CONCRETE PADS ARE ADDED OR EXTENDED, EXISTING PLUMBING FLOOR DRAINS AND CLEANOUTS SHALL BE EXTENDED THROUGH THE NEW PAD.

FIRE PROTECTION GENERAL NOTES	
A	PROVIDE A COMPLETE WET TYPE FIRE PROTECTION SYSTEM AS REQUIRED TO ACCOMMODATE THE FLOOR PLAN AND CEILING TYPES INCLUDING MAINS, BRANCHES, HEADS, VALVES, AND ACCESSORIES AS REQUIRED. THE SYSTEM SHALL BE INSTALLED ACCORDING TO MANUFACTURER'S SPECIFICATIONS AND RECOMMENDATIONS OF THE STATE BUILDING CODE, LOCAL FIRE DEPARTMENT, AND ALL FEDERAL, STATE, AND LOCAL AUTHORITIES, NFPA, AND FACTORY MUTUAL.
B	THE SPRINKLER SYSTEM SHALL BE DESIGNED BASED UPON ACTUAL WATER FLOW TEST DATA OBTAINED AT OR NEAR THE JOB SITE.
C	REFER TO REFLECTED CEILING PLANS FOR ADDITIONAL INFORMATION REGARDING SPRINKLER HEAD LOCATION AND PIPE, UNLESS NOTED OTHERWISE.
D	DIVISION 21 CONTRACTOR SHALL COORDINATE WITH THE ELECTRICAL CONTRACTOR FOR PROPER INSTALLATION OF THE FIRE PROTECTION SYSTEMS ALARM DEVICES INVOLVED WITH FIRE SPRINKLER SYSTEM.
E	ALL SPRINKLER SYSTEM PIPING SHALL BE CONCEALED ABOVE THE SUSPENDED CEILING SYSTEM, UNLESS NOTED OTHERWISE. WRITTEN AUTHORIZATION SHALL BE OBTAINED FROM THE ARCHITECT PRIOR TO EXPOSING ANY PIPING IN ANY ROOM WHICH HAS A SUSPENDED CEILING.
F	THIS CONTRACTOR SHALL PROVIDE ALL ADDITIONAL SPRINKLER HEADS AS REQUIRED TO ENSURE AN APPROVED FIRE PROTECTION SYSTEM AT NO ADDITIONAL COST TO THE OWNER.
G	AUXILIARY DRAINS SHALL BE EXPOSED WITH 1" DRAIN VALVES. WHEN 5 OR MORE GALLONS ARE TRAPPED, THIS CONTRACTOR SHALL PROVIDE FIXED PIPING TO AN ADEQUATELY SIZED RECEPTOR WHICH IS CAPABLE OF ACCEPTING THE FULL FLOW OF THE DRAIN. WHEN LESS THAN 5 GALLONS ARE TRAPPED, A HOSE BIB SHALL BE PROVIDED AT THE DRAIN VALVE.
H	AUXILIARY DRAINS SHALL NOT BE LOCATED ABOVE PLASTER OR GYPSUM BOARD CEILING SYSTEMS. ONLY BY A SPECIFIC WRITTEN INSTRUCTION FROM THE ENGINEER WILL A VARIANCE BE PROVIDED.
I	AN INSPECTOR'S TEST CONNECTION SHALL BE PROVIDED FOR EACH FIRE SPRINKLER ZONE. THIS CONTRACTOR SHALL PROVIDE FIXED PIPING FROM THE TEST CONNECTION TO AN ADEQUATELY SIZED RECEPTOR WHICH IS CAPABLE OF ACCEPTING THE FULL FLOW OF THE TEST. EXTERIOR DISCHARGE OF THE TEST CONNECTION SHALL BE PERMITTED ONLY BY SPECIFIC WRITTEN INSTRUCTION FROM THE ENGINEER.
J	SHOW ALL ROOM NUMBERS ON SHOP DRAWING PLANS.
K	ROUTE SPRINKLER PIPING SUCH THAT IT DOES NOT RUN ABOVE ELECTRICAL PANELS, SWITCHGEAR, OR SIMILAR EQUIPMENT. SPRINKLER MAINS SHALL NOT RUN THROUGH ELECTRICAL OR COMMUNICATION ROOMS. SPRINKLER HEADS IN THESE ROOMS SHALL BE SERVED BY A DEDICATED BRANCH LINE FOR EACH ROOM.
L	THIS DRAWING INDICATES A GENERAL PIPING ARRANGEMENT AND SUGGESTED SIZING ONLY. THIS CONTRACTOR SHALL DETERMINE THE ACTUAL PIPE SIZING REQUIRED AND COORDINATE WORK WITH ALL OTHER TRADES TO AVOID CONFLICTS.
M	THIS CONTRACTOR SHALL PREPARE HYDRAULIC CALCULATIONS BASED UPON THE CONFIGURATION OF THE ACTUAL SYSTEM DESIGN AS SHOWN ON THIS CONTRACTOR'S SHOP DRAWINGS.

FIRE PROTECTION SPECIFICATIONS

GENERAL PROVISIONS

IMPOSED REGULATIONS: APPLICABLE PROVISIONS OF THE STATE AND LOCAL CODES AND OF THE FOLLOWING CODES AND STANDARDS, IN ADDITION TO THOSE LISTED ELSEWHERE IN THE SPECIFICATIONS, ARE HEREBY IMPOSED ON A GENERAL BASIS FOR FIRE PROTECTION WORK.

- NFPA 13: STANDARD FOR THE INSTALLATION OF SPRINKLER SYSTEMS
NFPA 13R: STANDARD FOR THE INSTALLATION OF SPRINKLER SYSTEMS IN LOW-RISE RESIDENTIAL OCCUPANCIES
NFPA 14: STANDARD FOR THE INSTALLATION OF STANDPIPE AND HOSE SYSTEMS

SCOPE OF WORK: PROVIDE ALL LABOR, MATERIALS, EQUIPMENT AND SUPERVISION TO CONSTRUCT COMPLETE AND OPERABLE FIRE PROTECTION SYSTEM AS INDICATED ON THE DRAWINGS AND SPECIFIED HEREIN. ALL MATERIALS AND EQUIPMENT USED SHALL BE NEW, UNDAMAGED AND FREE FROM ANY DEFECTS.

PRODUCT WARRANTIES: PROVIDE MANUFACTURER'S STANDARD PRINTED COMMITMENT IN REFERENCE TO A SPECIFIC PRODUCT AND NORMAL APPLICATION, STATING THAT CERTAIN ACTS OF RESTITUTION WILL BE PERFORMED FOR THE PURCHASER OR OWNER BY THE MANUFACTURER, WHEN AND IF THE PRODUCT FAILS WITHIN CERTAIN OPERATIONAL CONDITIONS AND TIME LIMITS. WHERE THE WARRANTY REQUIREMENTS OF A SPECIFIC SPECIFICATION SECTION EXCEEDS THE MANUFACTURER'S STANDARD WARRANTY, THE MORE STRINGENT REQUIREMENTS WILL APPLY AND MODIFIED MANUFACTURER'S WARRANTY SHALL BE PROVIDED. IN NO CASE SHALL THE MANUFACTURER'S WARRANTY BE LESS THAN ONE (1) YEAR.

ELECTRICAL WORK: COORDINATE THE FIRE PROTECTION WORK WITH ELECTRICAL WORK, AND PROPERLY INTERFACE WITH THE ELECTRICAL SERVICE. IN GENERAL, AND EXCEPT AS OTHERWISE INDICATED, INSTALL FIRE PROTECTION EQUIPMENT READY FOR ELECTRICAL CONNECTION. REFER TO ELECTRICAL SECTIONS OF THE SPECIFICATIONS FOR ELECTRICAL CONNECTION OF FIRE PROTECTION EQUIPMENT.

THE PLANS SHOW THE GENERAL ARRANGEMENT AND LOCATIONS OF FIRE PROTECTION WORK. THE CONTRACTOR SHALL COMPLETE & SUBMIT HYDRAULIC CALCULATIONS AND SHOP DRAWINGS. COORDINATE THE FIRE PROTECTION INSTALLATION WITH THE STRUCTURE AND ALL OTHER TRADES. PERFORM ALL WORK IN ACCORDANCE WITH CURRENT STATE AND LOCAL CODES. SUBMIT PDF FILES OF MANUFACTURER'S DATA PRIOR TO EQUIPMENT PURCHASES.

COORDINATE THE ACTUAL LOCATION OF ALL FIRE PROTECTION WORK VISIBLE IN FINISHED SPACES WITH THE ARCHITECT.

THE CONTRACTOR SHALL FURNISH DETAILED SHOP DRAWINGS OF ALL FIRESTOPPING DETAILS TO BE USED FOR PIPING. ALL FIRESTOPPING DETAILS SHALL BE U.L. LISTED AND SUBJECT TO APPROVAL BY THE AUTHORITY HAVING JURISDICTION.

SUBMIT O&M MANUAL AND EQUIPMENT WARRANTIES UPON COMPLETION OF WORK.

SPRINKLER SYSTEM:

PROVIDE COVERAGE FOR THE ENTIRE BUILDING AND ADDITIONAL AREAS NOTED ON THE DRAWINGS. DETERMINE WATER SUPPLY VOLUME AND PRESSURE FROM WATER FLOW TEST DATA. PROVIDE FIRE DEPARTMENT CONNECTIONS WHERE INDICATED. COORDINATE FINAL LOCATION WITH AUTHORITY HAVING JURISDICTION.

PIPING:

PROVIDE PIPING, FITTINGS, HANGERS, AND SUPPORTS AS REQUIRED, AS INDICATED ON DESIGN DOCUMENTS, AND AS FOLLOWS:

BELOW GROUND PIPING:

- STEEL PIPE: STANDARD WEIGHT DUCTILE IRON PIPE WITH MECHANICAL BOLTED-TYPE JOINTS. STEEL FITTINGS SHALL BE BOLTED TYPE JOINTS WITH TIE RODS AND THRUST BLOCKS AT EACH CHANGE OF DIRECTION OF THE UNDERGROUND FIRE SERVICE PIPING. INSTALL TIE RODS AND THRUST BLOCKS IN ACCORDANCE WITH NFPA-24 REQUIREMENTS. CAST IRON FITTINGS: ASME B16.1, FLANGES AND FLANGED FITTINGS. JOINTS: WELDED IN ACCORDANCE WITH AWS D1.1/D1.1M. CASING: CLOSED GLASS CELL INSULATION.
- DUCTILE IRON PIPING: FITTINGS: AWWA C110/A21.10, STANDARD THICKNESS. JOINTS: BOLTED TYPE JOINTS WITH TIE RODS AND THRUST BLOCKS AT EACH CHANGE OF DIRECTION OF THE UNDERGROUND FIRE SERVICE PIPING. INSTALL TIE RODS AND THRUST BLOCKS IN ACCORDANCE WITH NFPA-24 REQUIREMENTS. MECHANICAL COUPLINGS: SHAPED COMPOSITION SEALING GASKET, STEEL BOLTS, NUTS, AND WASHERS.

ABOVE GROUND PIPING:

- STEEL PIPE: SCHEDULE 40, BLACK, ASTM A-795, A-53, OR A-135 WITH CLASS 150 OR 300 POUND MALLEABLE IRON THREADED FITTINGS, WELDED STEEL FITTINGS, OR WITH MECHANICAL GROOVED JOINT COUPLINGS. MECHANICAL COUPLINGS FOR MAIN SPRINKLER AND STANDPIPE RISERS SHALL BE RIGID TYPE COUPLING. WELDED STEEL FITTINGS, CAST IRON FITTINGS: ASME B16.1, FLANGES AND FLANGED FITTINGS AND ASME B16.4, THREADED FITTINGS. MALLEABLE IRON FITTINGS: ASME B16.3, THREADED FITTINGS. AND FACTORY MUTUAL. MECHANICAL GROOVED COUPLINGS: MALLEABLE IRON HOUSING CLAMPS TO ENGAGE AND LOCK. "C" SHAPED ELASTOMERIC SEALING GASKET, STEEL BOLTS, NUTS, AND WASHERS. MECHANICAL GROOVED JOINT COUPLINGS SHALL BE LISTED FOR USE IN FIRE PROTECTION SYSTEMS.
 - DUCTILE IRON PIPE: AWWA C151/A21.51, FITTINGS: AWWA C110/A21.10, STANDARD THICKNESS. JOINTS: AWWA C111/A21.11, SBR OR VULCANIZED STYRENE-BUTADIENE RUBBER GASKET. MECHANICAL GROOVED COUPLINGS: MALLEABLE IRON HOUSING CLAMPS TO ENGAGE AND LOCK. "C" SHAPED COMPOSITION SEALING GASKET, STEEL BOLTS, NUTS, AND WASHERS. GALVANIZED FOR GALVANIZED PIPE.
- PIPE SLEEVES:
- VERTICAL PIPING: SLEEVE LENGTH SHALL BE 1 INCH (25 MM) ABOVE FINISHED FLOOR. PROVIDE SEALANT FOR WATERTIGHT JOINT. BLOCKED OUT FLOOR OPENINGS: PROVIDE 1-1/2 INCH (40 MM) ANGLE SET IN SILICON ADHESIVE AROUND OPENING. DRILLED PENETRATIONS SHALL BE 1-1/2 INCH (40 MM) ANGLE RING OR SQUARE SET IN SILICON. APPLY ADHESIVE AROUND PENETRATION.
 - PLASTIC, SHEET METAL, OR MOISTURE-RESISTANT FIBER: PIPE PASSING THROUGH INTERIOR WALLS, PARTITIONS, AND FLOORS, UNLESS STEEL OR BRASS SLEEVES ARE SPECIFIED BELOW.
 - PIPE PASSING THROUGH BELOW GRADE EXTERIOR WALLS: ZINC-COATED OR CAST-IRON PIPE. PROVIDE WATERTIGHT SPACE WITH LINK RUBBER OR MODULAR SEAL BETWEEN SLEEVE AND PIPE ON BOTH PIPE ENDS.
 - NOT REQUIRED FOR WALL HYDRANTS FOR FIRE DEPARTMENT CONNECTIONS OR IN DRYWALL CONSTRUCTION.
 - CLEARANCES: PROVIDE ALLOWANCE FOR INSULATED PIPING, WALLS, FLOORS, PARTITIONS, AND BEAM FLANGES: 1 INCH (25 MM) GREATER THAN EXTERNAL; PIPE DIAMETER. RATED OPENINGS: CAULKED TIGHT WITH FIRESTOPPING MATERIAL COMPLYING WITH ASTM E814 IN ACCORDANCE WITH SECTION 078400 TO PREVENT THE SPREAD OF FIRE, SMOKE, AND GASES.

SPRINKLERS:

ALL SHALL BE QUICK RESPONSE TYPE: STANDARD OR EXTENDED COVERAGE, CHROME PLATED FINISHED AND THE FUSIBLE LINK GLASS BULB TYPE TEMPERATURE RATED FOR SPECIFIC AREA HAZARD.

SUSPENDED CEILING TYPE: SEMI-RECESSED PENDANT TYPE WITH MATCHING PUSH ON ESCUTCHEON PLATE.

GYPSUM BOARD CEILING TYPE: RECESSED PENDANT TYPE WITH COVER PLATE.

EXPOSED AREA TYPE: PENDANT TYPE.

SIDEWALL TYPE: SEMI-RECESSED HORIZONTAL SIDEWALL TYPE WITH MATCHING PUSH ON ESCUTCHEON PLATE.

DRY SPRINKLERS: EXPOSED PENDANT TYPE.

RESIDENTIAL SPRINKLERS: SEMI-RECESSED PENDANT TYPE WITH MATCHING PUSH ON ESCUTCHEON PLATE.

STORAGE SPRINKLERS: PENDANT TYPE WITH GUARD. GUARD FINISH TO MATCH SPRINKLER FINISH.

PIPING SPECIALTIES:

WET PIPE SPRINKLER ALARM VALVE: CHECK TYPE VALVE WITH DIVIDED SEAT RING, RUBBER-FACED CLAPPER TO AUTOMATICALLY ACTUATE WATER MOTOR ALARM, PRESSURE RETARD CHAMBER AND VARIABLE PRESSURE TRIM WITH THE FOLLOWING ADDITIONAL CAPABILITIES AND FEATURES: ACTIVE ELECTRIC ALARM, TEST AND DRAIN VALVE AND REPLACEABLE INTERNAL COMPONENTS WITHOUT REMOVING VALVE FROM INSTALLED POSITION.

DRY PIPE SPRINKLER ALARM VALVE: CHECK TYPE VALVE WITH DIVIDED SEAT RING, RUBBER FACED CLAPPER TO AUTOMATICALLY ACTUATE WATER MOTOR ALARM, ACCELERATOR, AND WITH THE FOLLOWING ADDITIONAL CAPABILITIES AND FEATURES: ACTIVATE ELECTRIC ALARM, TEST AND DRAIN VALVE, EXTERNALLY RESETTABLE AND REPLACEABLE INTERNAL COMPONENTS WITHOUT REMOVING VALVE FROM INSTALLED POSITION.

BACKFLOW PREVENTER: REDUCED PRESSURE PRINCIPLE VALVE ASSEMBLY BACKFLOW PREVENTER WITH DRAIN AND OS&Y GATE VALVE ON EACH END.

TEST CONNECTION: PROVIDE BACKFLOW PREVENTER TEST CONNECTION DOWNSTREAM OF THE BACKFLOW PREVENTION ASSEMBLY. LISTED HOSE VALVES WITH 2.5 INCH NATIONAL STANDARD MALE HOSE THREADS WITH CAP AND CHAIN. FURNISH ONE VALVE FOR EACH 250 GPM OF SYSTEM DEMAND. PROVIDE PERMANENT SIGN READING "TEST VALVE".

ELECTRIC ALARM: ELECTRICALLY OPERATED RED ENAMELED GONG WITH PRESSURE ALARM SWITCH.

WATER FLOW SWITCH: VANE TYPE SWITCH FOR MOUNTING HORIZONTAL OR VERTICAL, WITH TWO CONTACTS; RATED 10 AMP AT 125 VOLT AC AND 2.5 AMP AT 24 VOLT DC.

FIRE DEPARTMENT CONNECTIONS: PROVIDE FLUSH WALL MOUNTED WITH TWO WAY INLETS. 2.5" SWIVEL FITTINGS, INTERNAL THREADED, BRASS CAPS WITH GASKET, CHAINS, AND LUGS. CONFIGURATION SHALL BE HORIZONTAL WITH A BRASS OR BRONZE FINISH. INLETS AND THREAD SIZE SHALL BE COORDINATED AND APPROVED WITH THE AUTHORITY HAVING JURISDICTION.

STANDPIPE VALVES:

HOSE CONNECTION VALVE: ANGLE TYPE: BRASS FINISH; 2-1/2 INCH (65 MM) SIZE, THREAD TO MATCH FIRE DEPARTMENT HARDWARE, 300 PSI (2070 KPA) WORKING PRESSURE, WITH THREADED CAP AND CHAIN OF SAME MATERIAL AND FINISH.

PRESSURE REDUCING VALVE: ANGLE TYPE: BRASS FINISH WITH INNER HYDRAULIC CONTROLS; 2-1/2 INCH (65 MM) SIZE, THREAD TO MATCH FIRE DEPARTMENT HARDWARE, 400 PSI (2760 KPA) INLET PRESSURE, WITH THREADED CAP AND CHAIN OF SAME MATERIAL AND FINISH.

FIRE PROTECTION IDENTIFICATION MATERIALS:

PLASTIC TAGS: LAMINATED THREE-LAYER PLASTIC WITH ENGRAVED BLACK LETTERS ON LIGHT CONTRASTING BACKGROUND COLOR. TAG SIZE MINIMUM 1-1/2 INCH (40 MM) DIAMETER.

METAL TAGS: BRASS WITH STAMPED LETTERS, TAG SIZE MINIMUM 1-1/2 INCH (40 MM) DIAMETER WITH SMOOTH EDGES.

VALVE TAG CHART: TYPEWRITTEN LETTER SIZE LIST IN ANODIZED ALUMINUM FRAME.

J.ELDER
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BELOW GROUND PIPING:

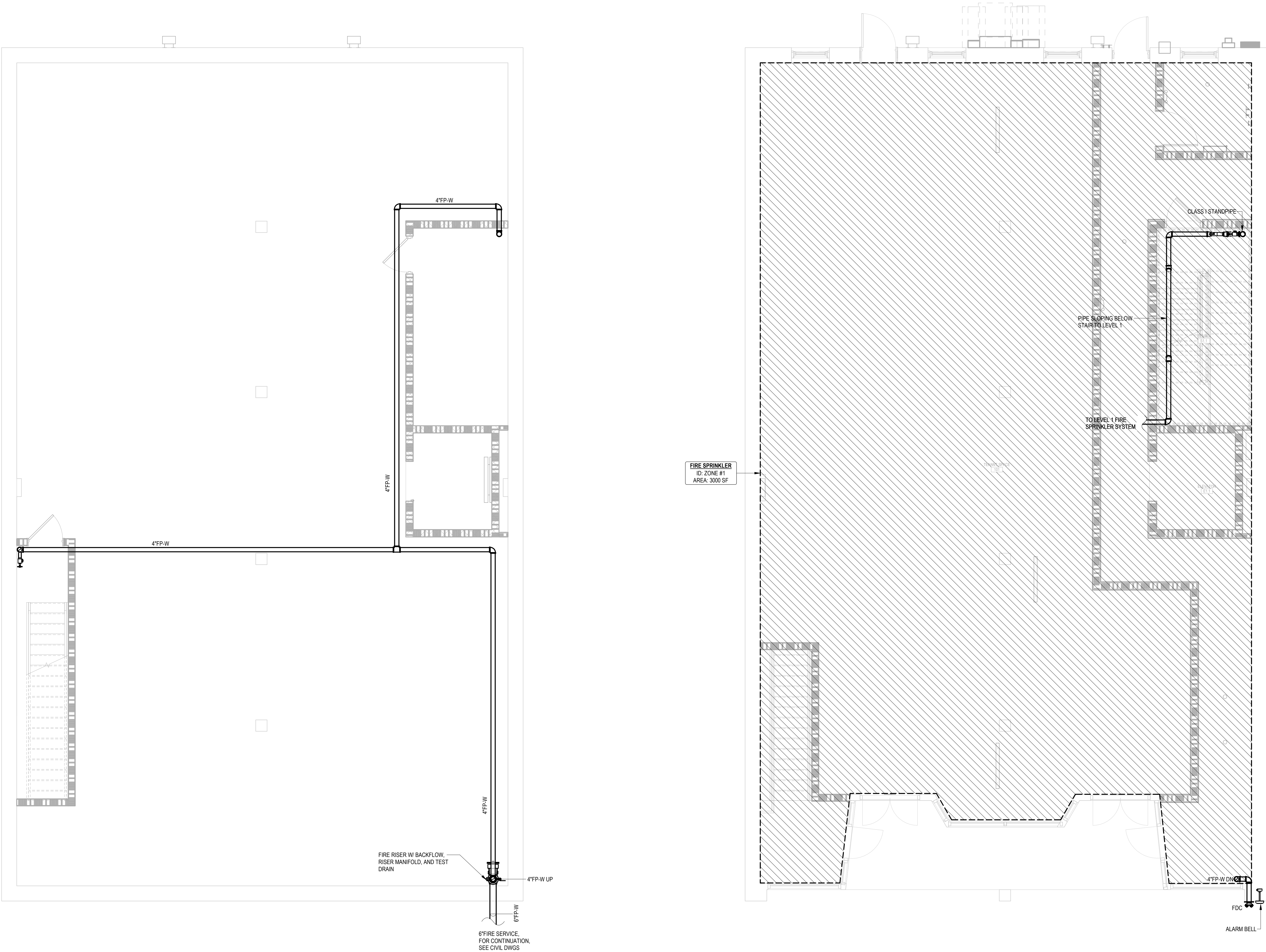
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AUTOMATIC SPRINKLER SYSTEM DESIGN CRITERIA			
SYMBOL	OCCUPANCY HAZARD CLASSIFICATION	DESIGN DENSITY (GPM/FT²)	DESIGN AREA (SF)
R	RESIDENTIAL (DWELLING) OCCUPANCY	0.05	400
LH	LIGHT HAZARD OCCUPANCY	0.10	1500
OH1	ORDINARY HAZARD, GROUP 1 OCCUPANCY	0.15	1500
OH2	ORDINARY HAZARD, GROUP 2 OCCUPANCY	0.20	1500
EH1	EXTRA HAZARD, GROUP 1 OCCUPANCY	0.30	2500
EH2	EXTRA HAZARD, GROUP 2 OCCUPANCY	0.40	2500
S	SPECIAL HAZARD OCCUPANCY		



1 BASEMENT FIRE PROTECTION PLAN
F-100
1/4" = 1'-0"

2 LEVEL 1 FIRE PROTECTION PLAN
F-100
1/4" = 1'-0"

ROOF TOP ADDITION

AT

408 MARTIN LUTHER KING JR. BLVD.

FIRE PROTECTION PLANS - BASEMENT AND 1ST FLOOR

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CONTRACT DATE

REVISIONS

NO.	DESCRIPTION	DATE

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CURRENT DRAWING STATUS

CONSTRUCTION
DOCUMENT



AUTOMATIC SPRINKLER SYSTEM DESIGN CRITERIA			
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EH1	EXTRA HAZARD, GROUP 1 OCCUPANCY	0.30	2500
EH2	EXTRA HAZARD, GROUP 2 OCCUPANCY	0.40	2500
S	SPECIAL HAZARD OCCUPANCY		

OCCUPANCY HAZARD CLASSIFICATION SCHEDULE - LEVEL 2			
NO.	LOCATION NAME	AREA (SF)	OCCUPANCY HAZARD CLASSIFICATION SYMBOL
SECOND FLOOR (EXISTING)			
200	LOBBY	90	R
201	UNIT 201	633	R
202	UNIT 202	866	R
202.18	Space	9	R
202.24	Space	7	R
202.28	Space	5	R
202.30	Space	5	R
202.32	Space	5	R
203	UNIT 203	566	R
204	UNIT 204	635	R
E1.2	ELEVATOR	59	R
S1.2	STAIR 1	150	R
Grand total: 12		3051	

OCCUPANCY HAZARD CLASSIFICATION SCHEDULE - LEVEL 3			
NO.	LOCATION NAME	AREA (SF)	OCCUPANCY HAZARD CLASSIFICATION SYMBOL
THIRD FLOOR (EXISTING)			
202.36	Space	9	R
202.45	Space	5	R
202.47	Space	5	R
202.48	Space	5	R
202.51	Space	7	R
300	LOBBY	90	R
301	UNIT 301	633	R
302	UNIT 302	864	R
303	UNIT 303	566	R
304	UNIT 304	637	R
E1.3	ELEVATOR	59	R
S1.3	STAIR 1	150	R
Grand total: 12		3051	

ROOF TOP ADDITION

AT

408 MARTIN LUTHER KING JR. BLVD.

FIRE PROTECTION PLANS - LEVELS 2 & 3

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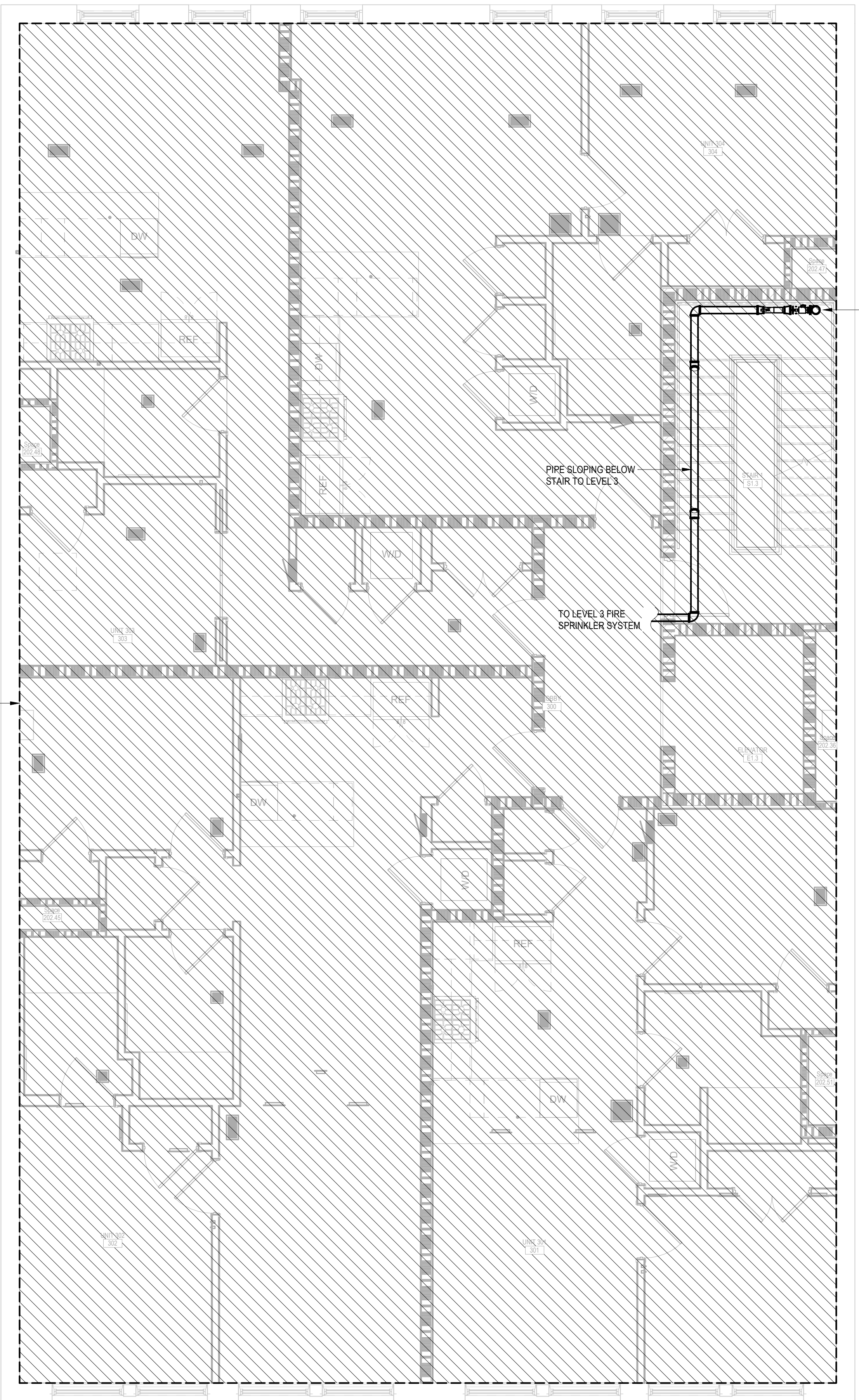
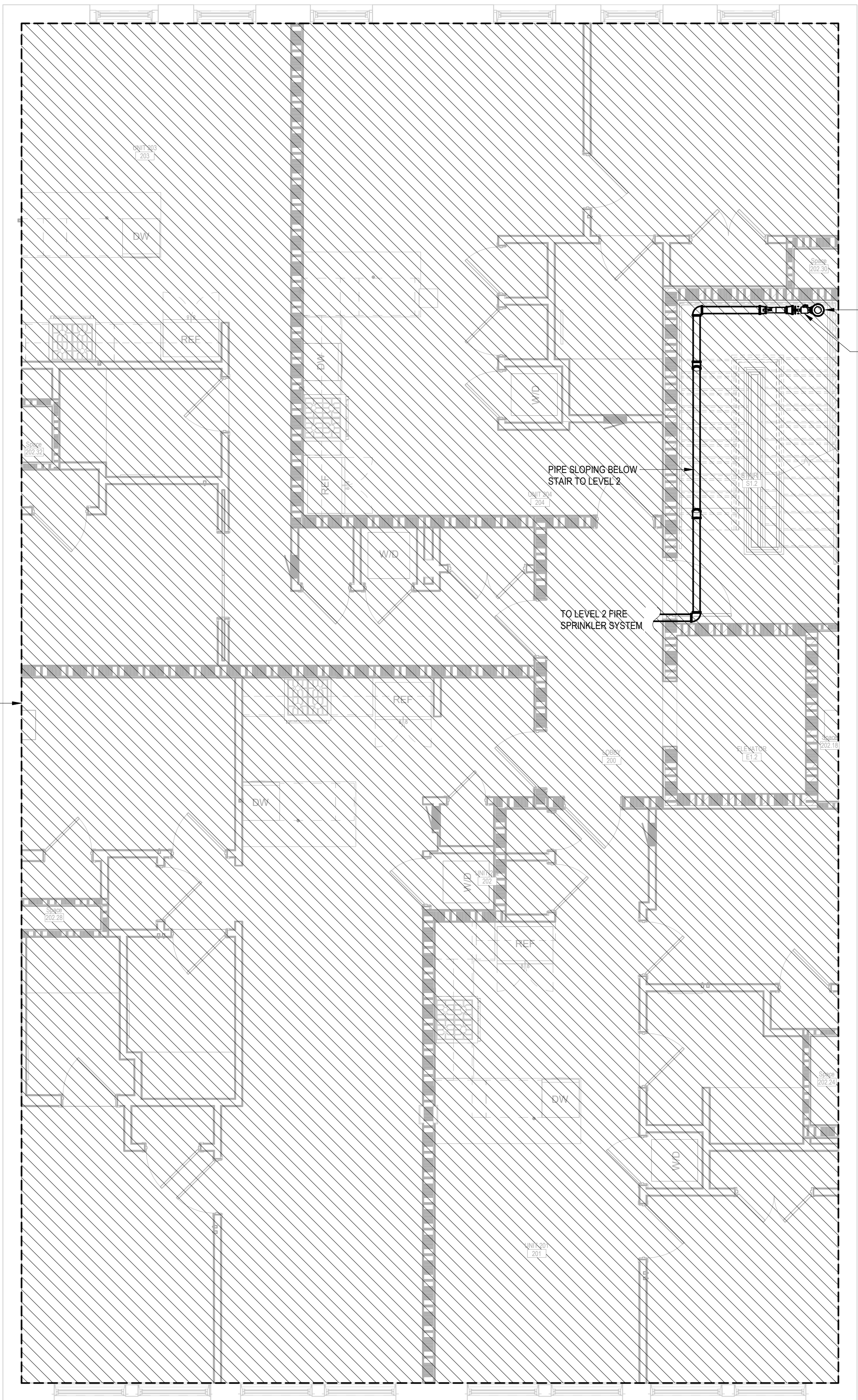
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DOCUMENT

F-101



1 LEVEL 2 FIRE PROTECTION PLAN
F-101 1/4" = 1'-0"

2 LEVEL 3 FIRE PROTECTION PLAN
F-101 1/4" = 1'-0"



AUTOMATIC SPRINKLER SYSTEM DESIGN CRITERIA			
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EH1	EXTRA HAZARD, GROUP 1 OCCUPANCY	0.30	2500
EH2	EXTRA HAZARD, GROUP 2 OCCUPANCY	0.40	2500
S	SPECIAL HAZARD OCCUPANCY		

OCCUPANCY HAZARD CLASSIFICATION SCHEDULE - LEVEL 4			
NO.	LOCATION NAME	AREA (SF)	OCCUPANCY HAZARD CLASSIFICATION SYMBOL
FOURTH FLOOR			
303.11	Space	5	R
303.14	Space	7	R
303.17	Space	7	R
400	LOBBY	90	R
401-1	UNIT 401-1	1087	R
402-1	UNIT 402-1	972	R
E1.4	ELEVATOR	59	R
S1.4	STAIR 1	628	R
Grand total: 8		2856	

OCCUPANCY HAZARD CLASSIFICATION SCHEDULE - MEZZANINE			
NO.	LOCATION NAME	AREA (SF)	OCCUPANCY HAZARD CLASSIFICATION SYMBOL
MEZZANINE			
401-2	UNIT 401-2	453	R
402-2	UNIT 402-2	350	R
402.16	PATIO	110	R
403	PATIO	480	R
Grand total: 4		1393	

ROOF TOP ADDITION

AT

408 MARTIN LUTHER KING JR. BLVD.

FIRE PROTECTION PLANS - LEVELS 4 & MEZZANINE

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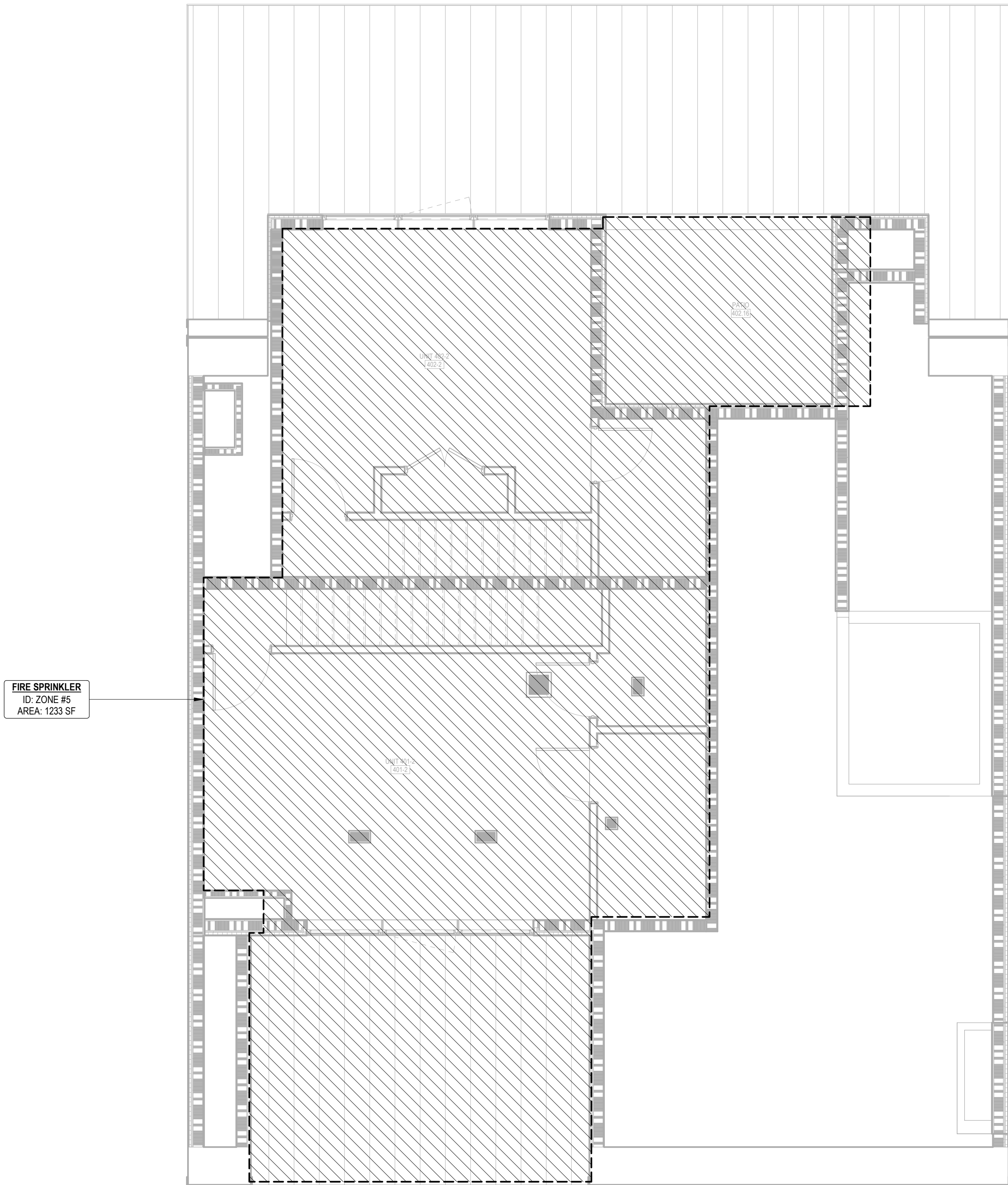
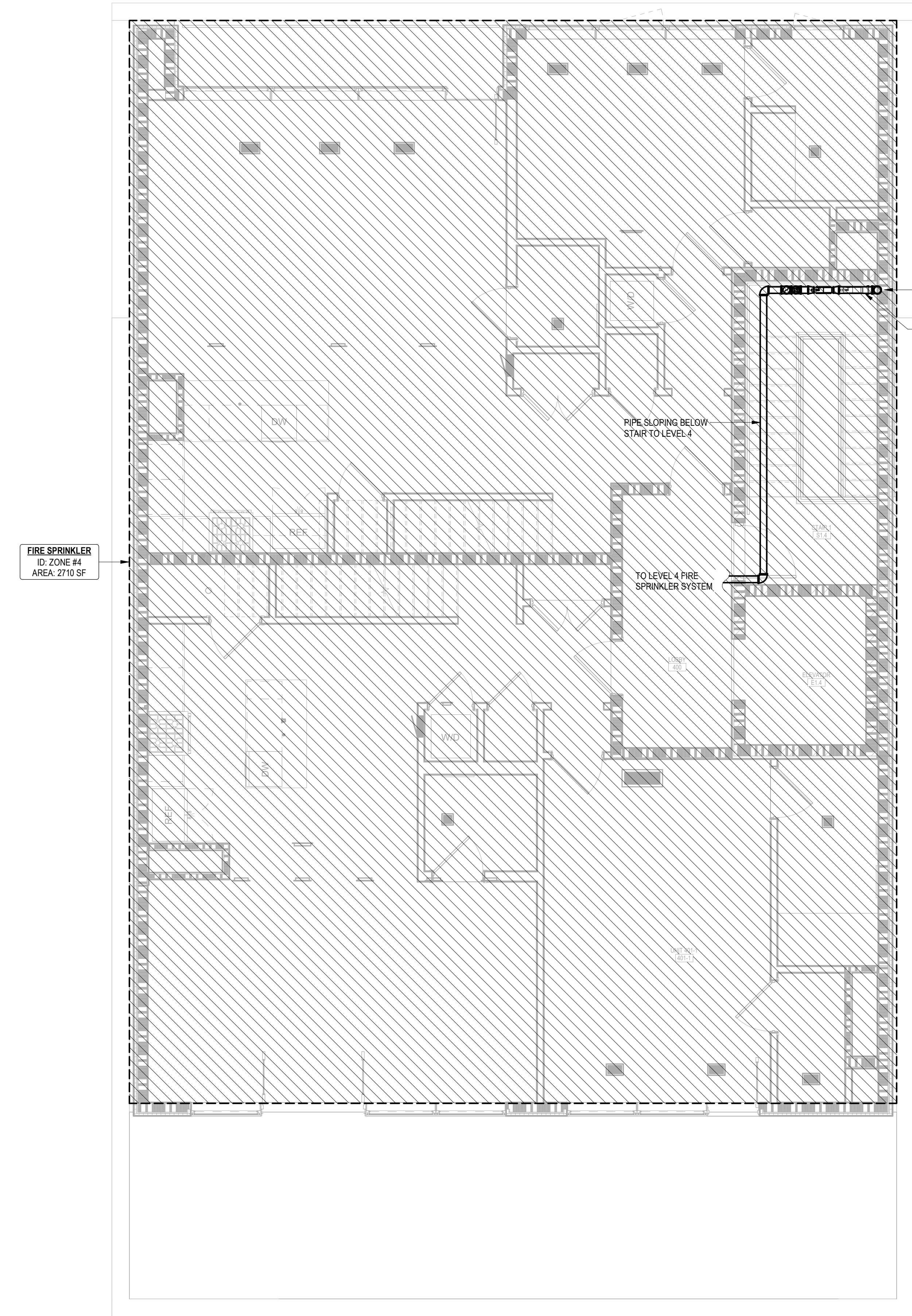
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CONSTRUCTION
DOCUMENT

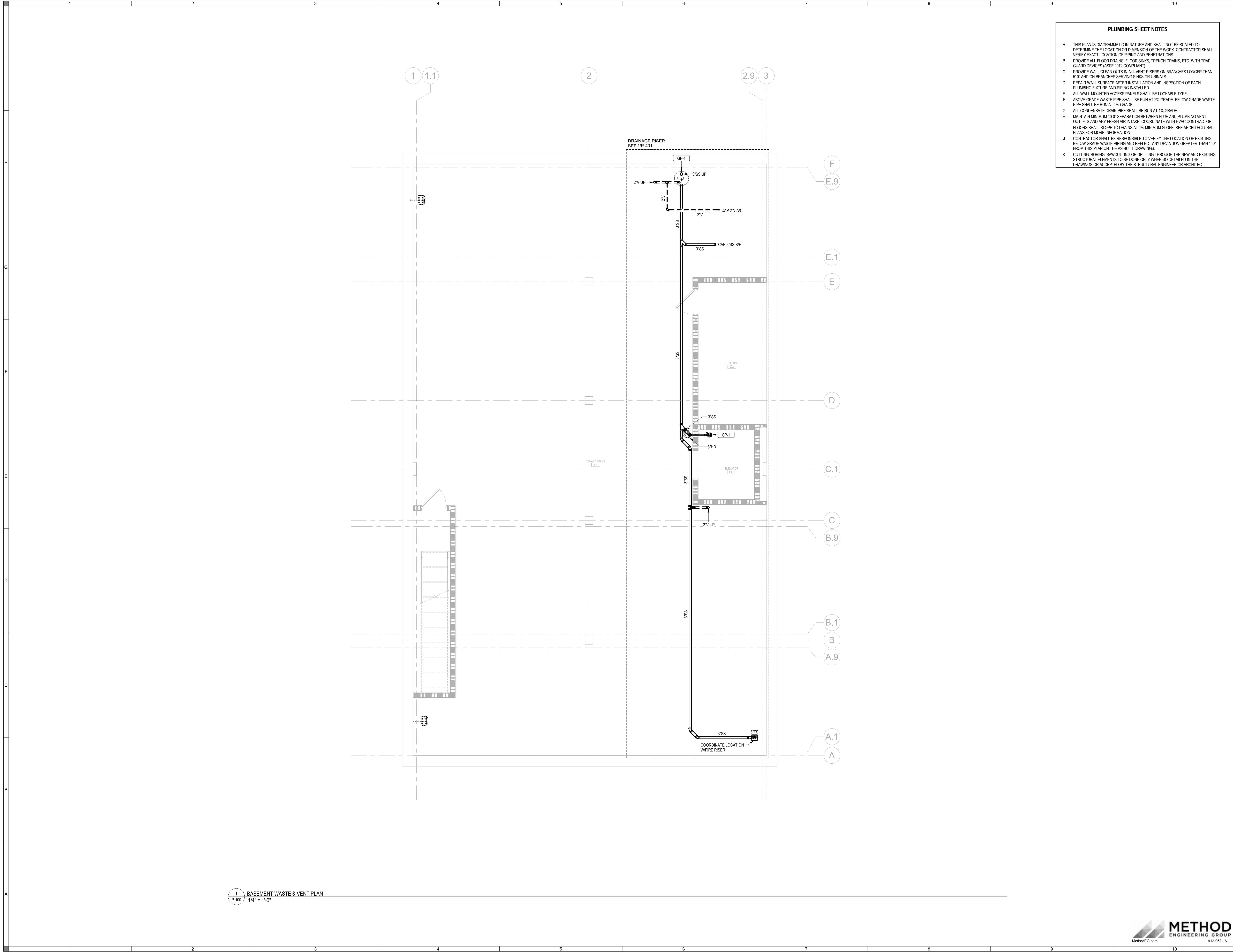
F-102



A blank coordinate grid with a vertical y-axis and a horizontal x-axis. The y-axis is labeled with 'A', 'B', and 'C' from bottom to top. The x-axis is labeled with '1', '2', and '3' from left to right. The grid consists of a 3x3 array of squares. The origin (0,0) is at the bottom-left corner, marked by a small black square. The grid lines are thin and gray.

[illegible]


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 ENGINEERING GROUP
MethodEG.com 912-961-1111



PLUMBING SHEET NOTES

- A THIS PLAN IS DIAGRAMMATIC IN NATURE AND SHALL NOT BE SCALED TO DETERMINE THE LOCATION OR DIMENSION OF THE WORK. CONTRACTOR SHALL VERIFY EXACT LOCATION OF PIPING AND PENETRATIONS.
- B PROVIDE ALL FLOOR DRAINS, FLOOR SINKS, TRENCH DRAINS, ETC. WITH TRAP GUARD DEVICES (ASSE 1074 COMPLIANT).
- C PROVIDE WALL CLEAN OUTS IN ALL VENT RISERS ON BRANCHES LONGER THAN 5'-0" AND ON BRANCHES SERVING SINKS OR URINALS.
- D REPAIR WALL SURFACE AFTER INSTALLATION AND INSPECTION OF EACH PLUMBING FIXTURE AND PIPING INSTALLED.
- E ALL WALL-MOUNTED ACCESS PANELS SHALL BE LOCKABLE TYPE.
- F ABOVE-GRADE WASTE PIPE SHALL BE RUN AT 2% GRADE. BELOW-GRADE WASTE PIPE SHALL BE RUN AT 1% GRADE.
- G ALL CONDENSATE DRAIN PIPE SHALL BE RUN AT 1% GRADE.
- H MAINTAIN MINIMUM 10'-0" SEPARATION BETWEEN FLUE AND PLUMBING VENT OUTLETS AND ANY FRESH AIR INTAKE. COORDINATE WITH HVAC CONTRACTOR.
- I FLOORS SHALL SLOPE TO DRAINS AT 1% MINIMUM SLOPE. SEE ARCHITECTURAL PLANS FOR MORE INFORMATION.
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- K CUTTING, BORING, SAWCUTTING OR DRILLING THROUGH THE NEW AND EXISTING STRUCTURAL ELEMENTS TO BE DONE ONLY WHEN SO DETAILED IN THE DRAWINGS OR ACCEPTED BY THE STRUCTURAL ENGINEER OR ARCHITECT.

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ROOF TOP ADDITION

AT

408 MARTIN LUTHER KING JR. BLVD.

BASEMENT WASTE & VENT PLAN

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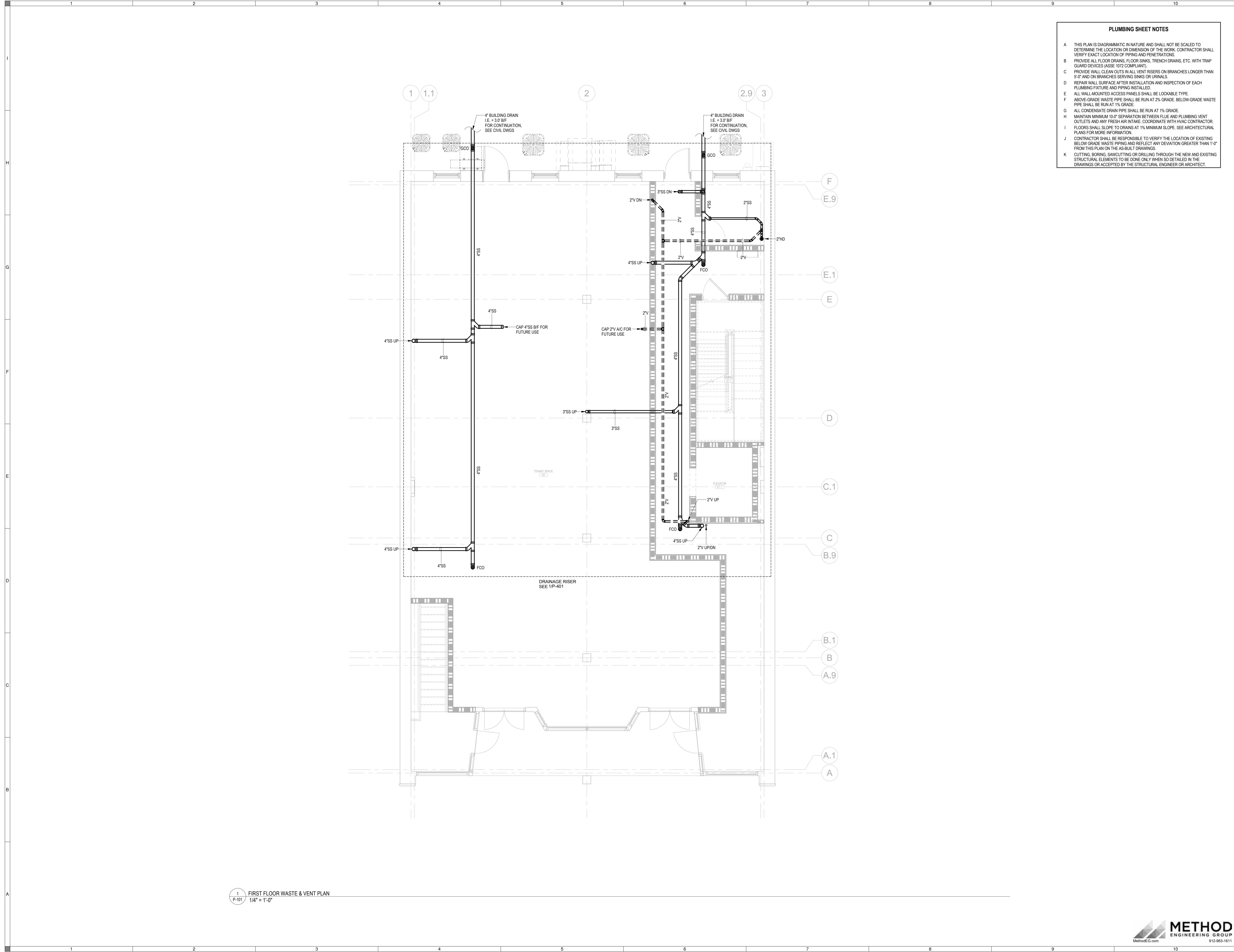
NO.	DESCRIPTION	DATE

ISSUE DATE

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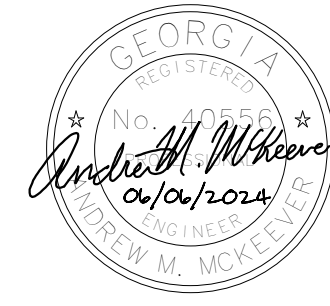


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FIRST FLOOR WASTE & VENT PLAN

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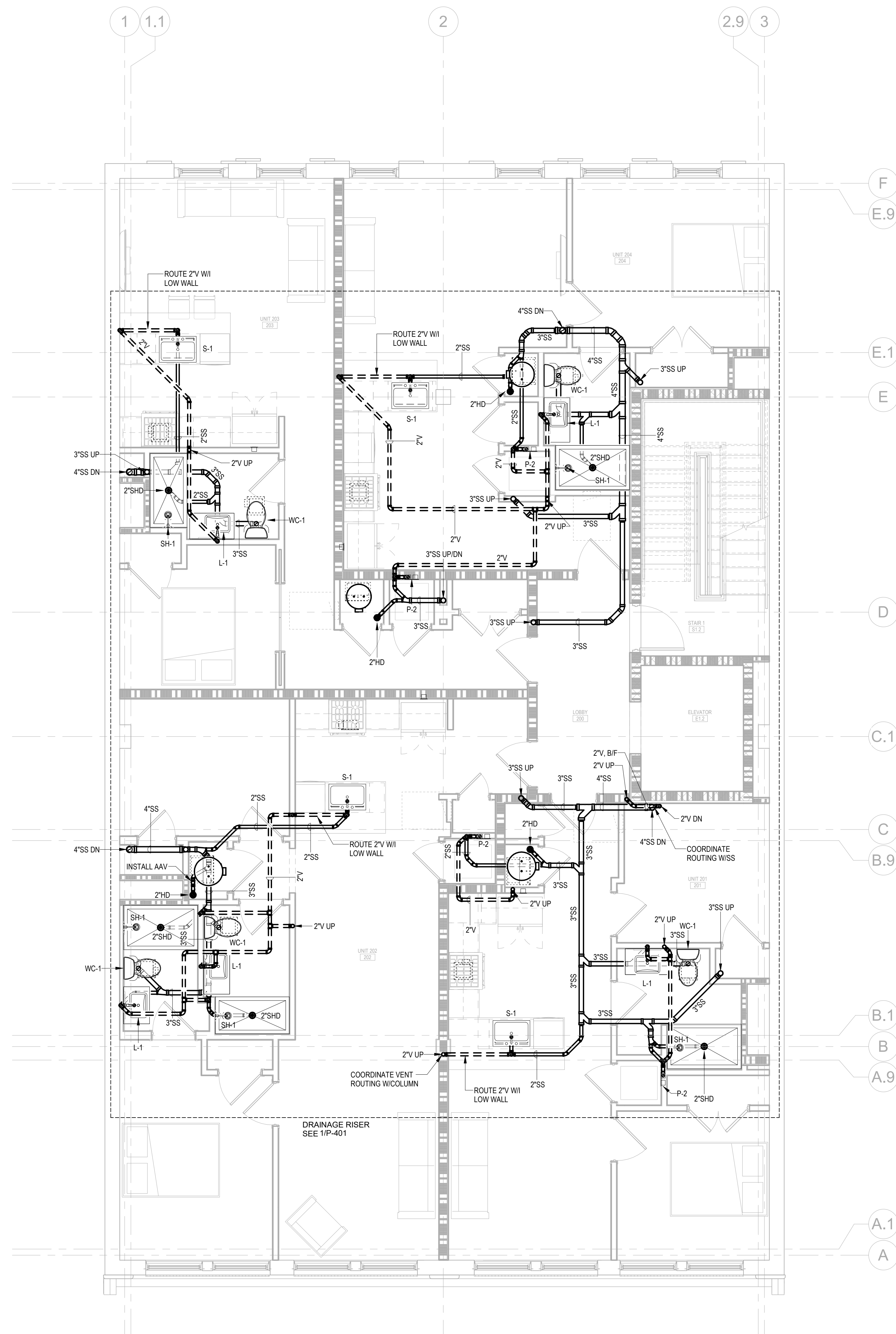
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- C PROVIDE WALL CLEAN OUTS IN ALL VENT RISERS ON BRANCHES LONGER THAN 5'-0" AND ON BRANCHES SERVING SINKS OR URINALS.
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ROOF TOP ADDITION

AT
408 MARTIN LUTHER KING JR. BLVD.

THIRD FLOOR WASTE & VENT PLAN

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AT

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FOURTH FLOOR WASTE & VENT PLAN

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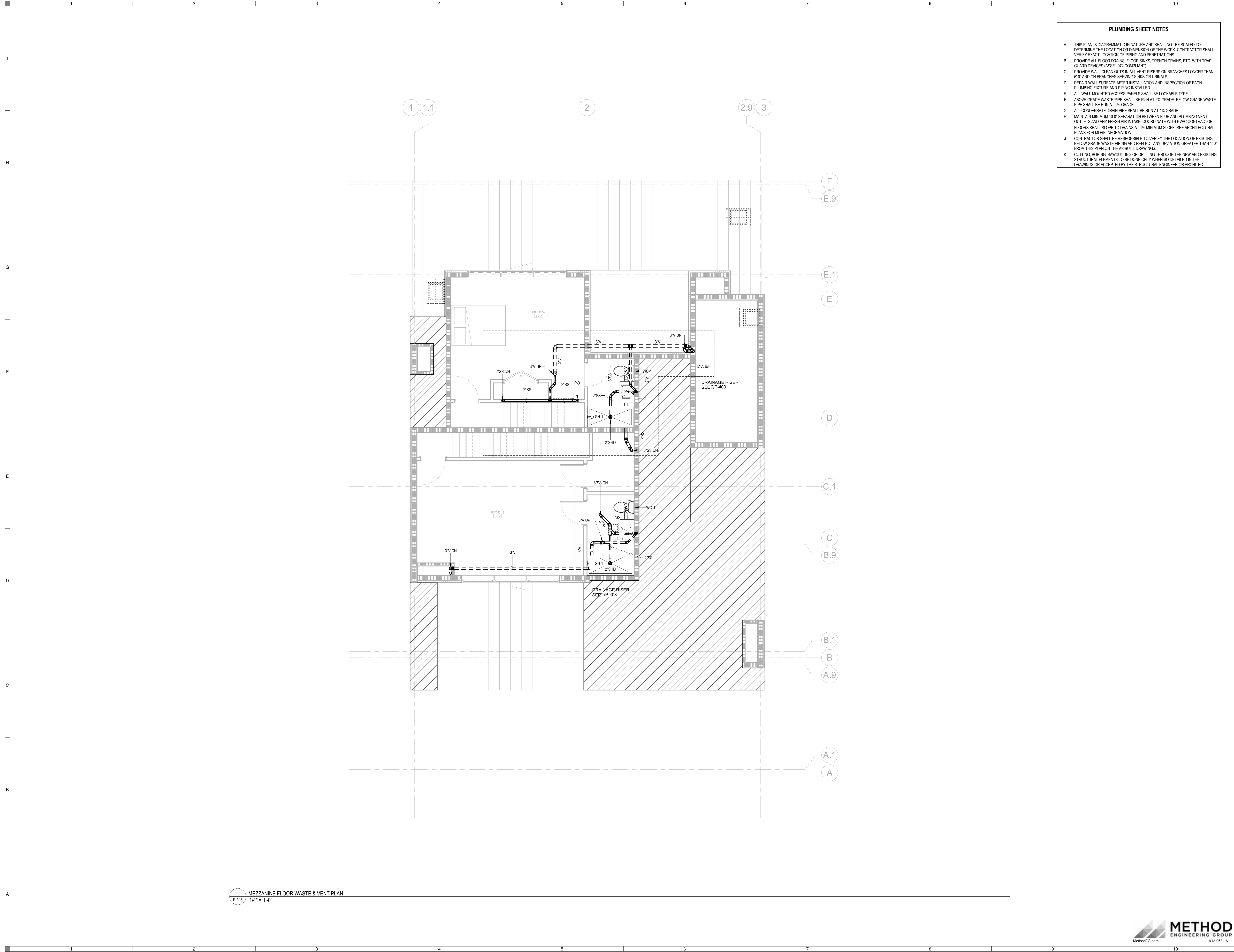
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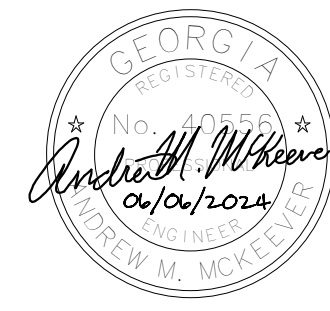


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MEZZANINE FLOOR WASTE & VENT PLAN

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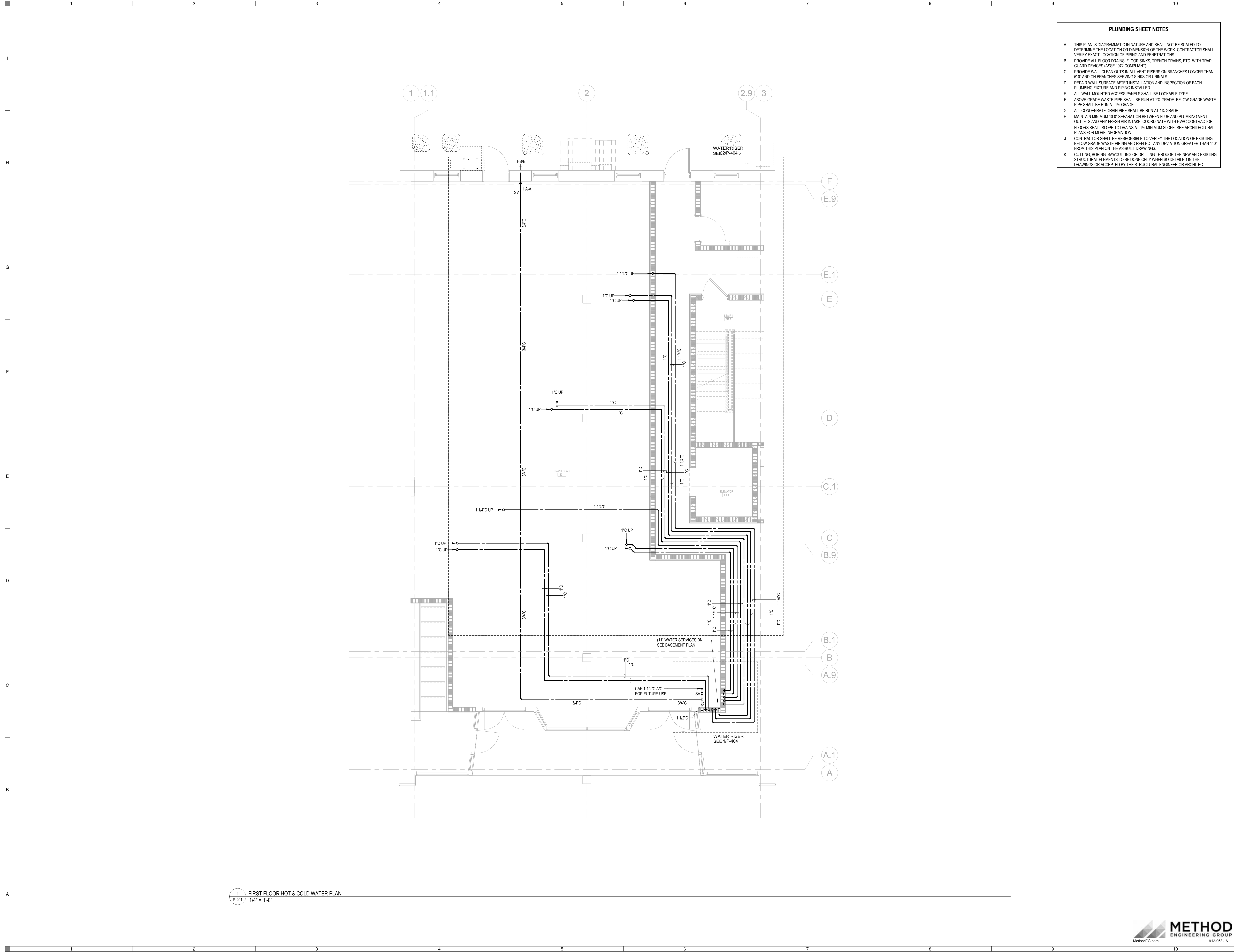
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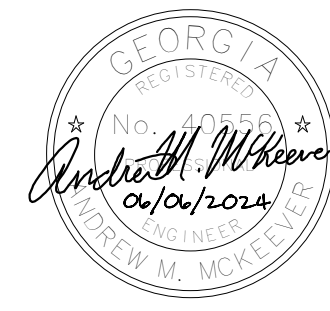


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ROOF TOP ADDITION

AT

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FIRST FLOOR HOT & COLD WATER PLAN

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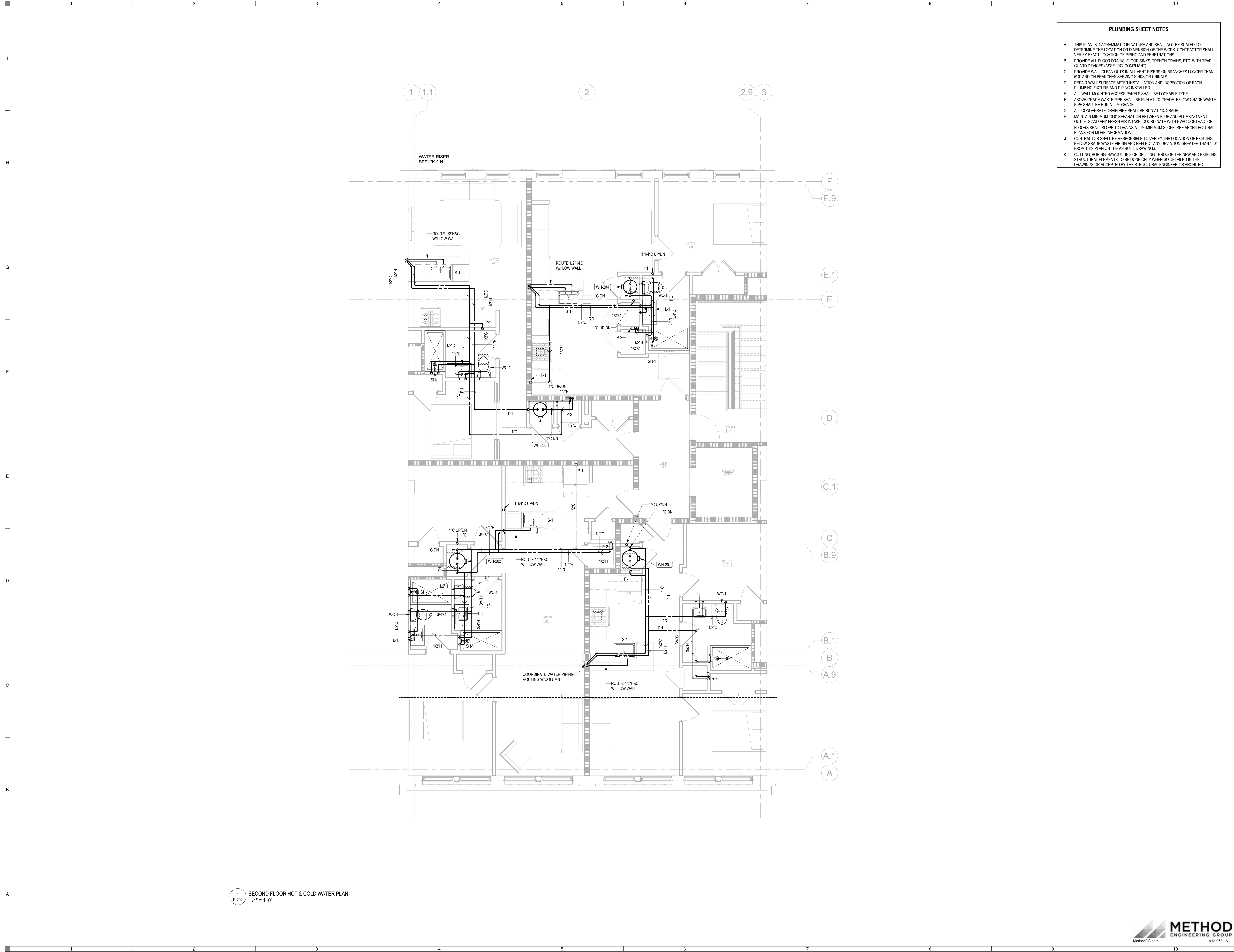
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ROOF TOP ADDITION

AT

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SECOND FLOOR HOT & COLD WATER PLAN

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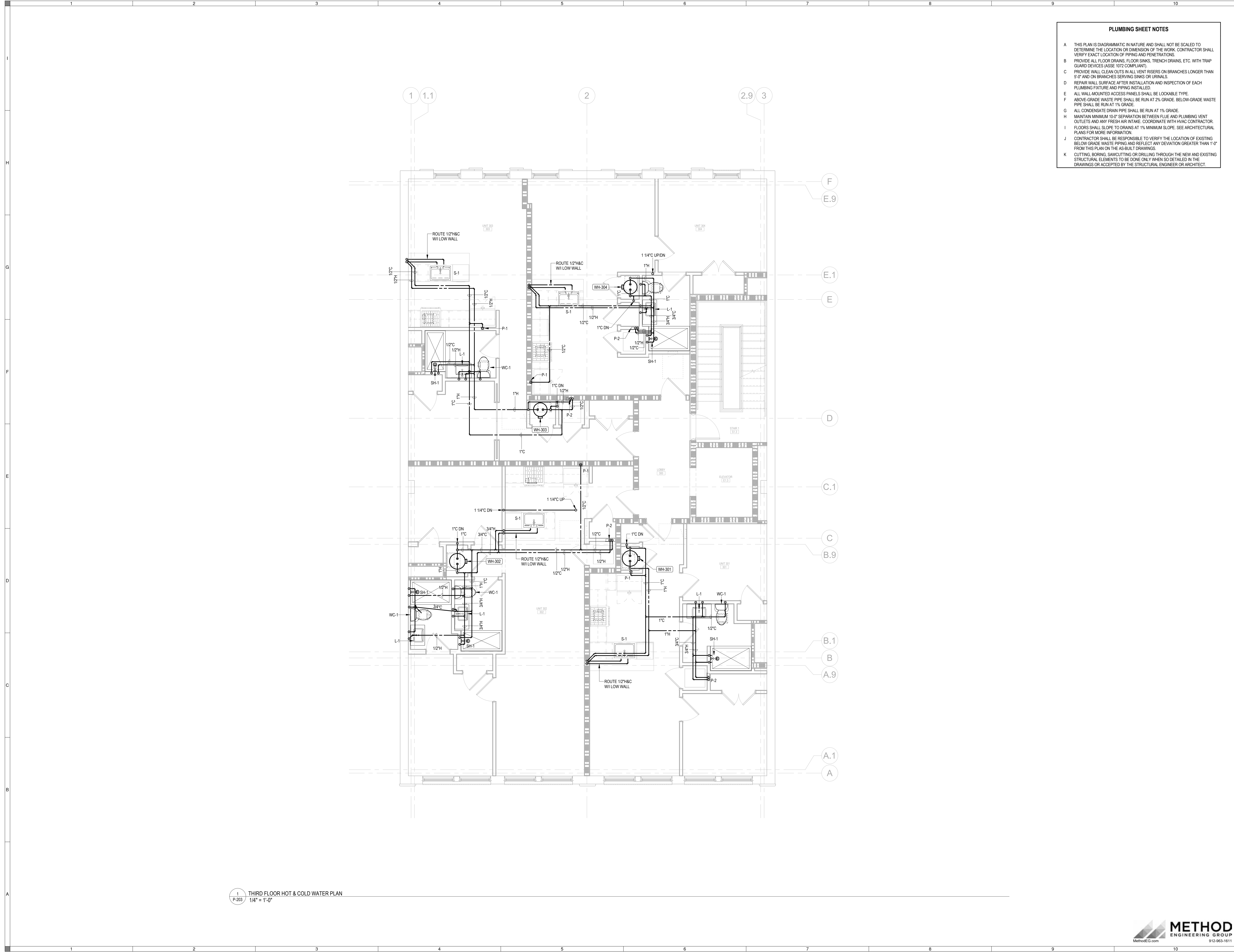
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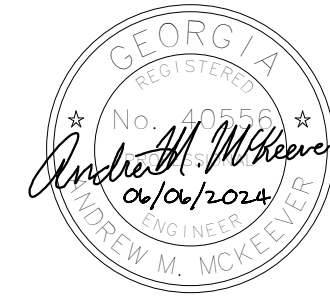


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ROOF TOP ADDITION

AT

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THIRD FLOOR HOT & COLD WATER PLAN

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Determine the LOCATION OR DIMENSION OF THE WORK. CONTRACTOR SHALL
B VERIFY THE LOCATION OF THE WORK BY FIELD SURVEY.

C PROVIDE ALL FLOOR DRAINS, FLOOR SINKS, TRENCH DRAINS, ETC. WITH TRAP
LUGS (DESIGN ASSUMES 102% COMPLIANCE).

D PROVIDE WALL CLEAN OUTS AT ALL INVERT RISERS ON BRANCHES LONGER THAN
5'-0" AND ON BRANCHES SERVING LONG RUNS.

E REPAIR WALL SURFACE AFTER INSTALLATION AND INSPECTION OF EACH
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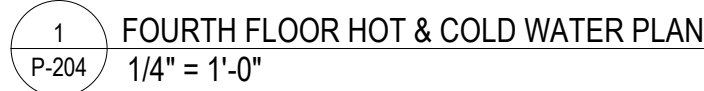
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G PIPE SHALL BE RUN AT 1% GRADE.

H ALL CONDENSATE DRAIN PIPE SHALL BE RUN AT 1% GRADE.

I MAINTAIN MINIMUM 10" SEPARATION BETWEEN FLEU AND PLUMBING VENT
OUTLETS AND ANY FRESH AIR INTAKE. COORDINATE WITH HVAC CONTRACTOR.
FLOOR SHALL SLOPE TO DRAINS AT 1% MINIMUM SLOPE. SEE ARCHITECTURAL
J PLAN FOR MORE INFORMATION.

K CONTRACTOR SHALL BE RESPONSIBLE TO VERIFY THE LOCATION OF EXISTING
BELOW GRADE WASTE PIPING AND AS-BUILT VARIATION GREATER THAN 1'-0"
FROM THIS PLAN ON THE RESULTING DRAWINGS.

L CONTRACTOR SHALL BE RESPONSIBLE TO VERIFY THE NEW AND EXISTING
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FOURTH FLOOR HOT & COLD WATER PLAN

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- C PROVIDE WALL CLEAN OUTS IN ALL VENT RISERS ON BRANCHES LONGER THAN 5'-0" AND ON BRANCHES SERVING SINKS OR URINALS.
- D REPAIR WALL SURFACE AFTER INSTALLATION AND INSPECTION OF EACH PLUMBING FIXTURE AND PIPING INSTALLED.
- E ALL WALL-MOUNTED ACCESS PANELS SHALL BE LOCKABLE TYPE.
- F ABOVE-GRADE WASTE PIPE SHALL BE RUN AT 2% GRADE. BELOW-GRADE WASTE PIPE SHALL BE RUN AT 1% GRADE.
- G ALL CONDENSATE DRAIN PIPE SHALL BE RUN AT 1% GRADE.
- H MAINTAIN MINIMUM 10'-0" SEPARATION BETWEEN FLUE AND PLUMBING VENT OUTLETS AND ANY FRESH AIR INTAKE. COORDINATE WITH HVAC CONTRACTOR.
- I FLOORS SHALL SLOPE TO DRAINS AT 1% MINIMUM SLOPE. SEE ARCHITECTURAL PLANS FOR MORE INFORMATION.
- J CONTRACTOR SHALL BE RESPONSIBLE TO VERIFY THE LOCATION OF EXISTING BELOW GRADE WASTE PIPING AND REFLECT ANY DEVIATION GREATER THAN 1'-0" FROM THIS PLAN ON THE AS-BUILT DRAWINGS.
- K CUTTING, BORING, SAWCUTTING OR DRILLING THROUGH THE NEW AND EXISTING STRUCTURAL ELEMENTS TO BE DONE ONLY WHEN SO DETAILED IN THE DRAWINGS OR ACCEPTED BY THE STRUCTURAL ENGINEER OR ARCHITECT.

J.ELDER
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Savannah, Georgia 31401
P 646.619.7494



ROOF TOP ADDITION

AT

408 MARTIN LUTHER KING JR. BLVD.

MEZZANINE FLOOR HOT & COLD WATER PLAN

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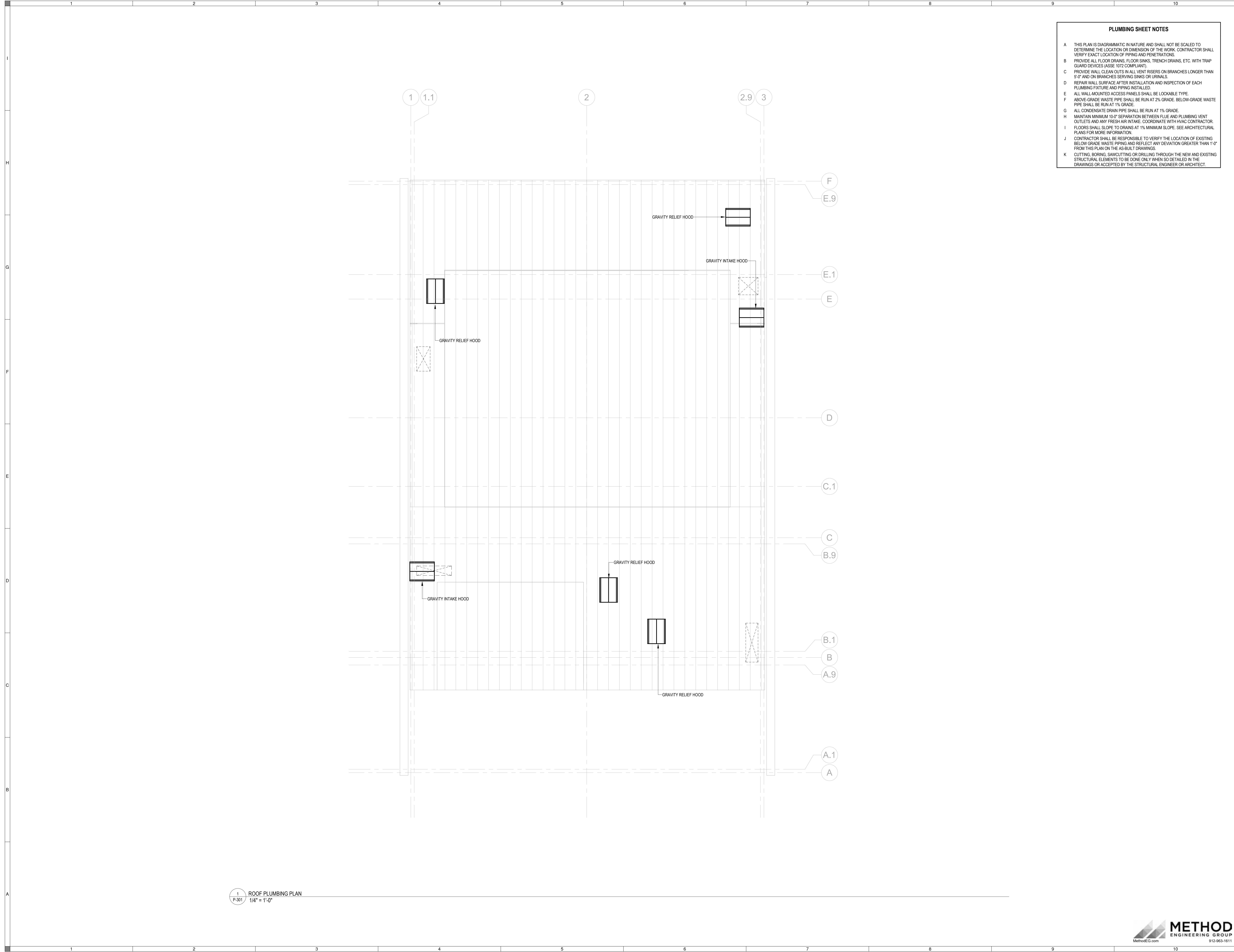
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- PLUMBING SHEET NOTES**
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ROOF TOP ADDITION
AT
408 MARTIN LUTHER KING JR. BLVD.
ROOF PLUMBING PLAN

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PLUMBING RISER DIAGRAM

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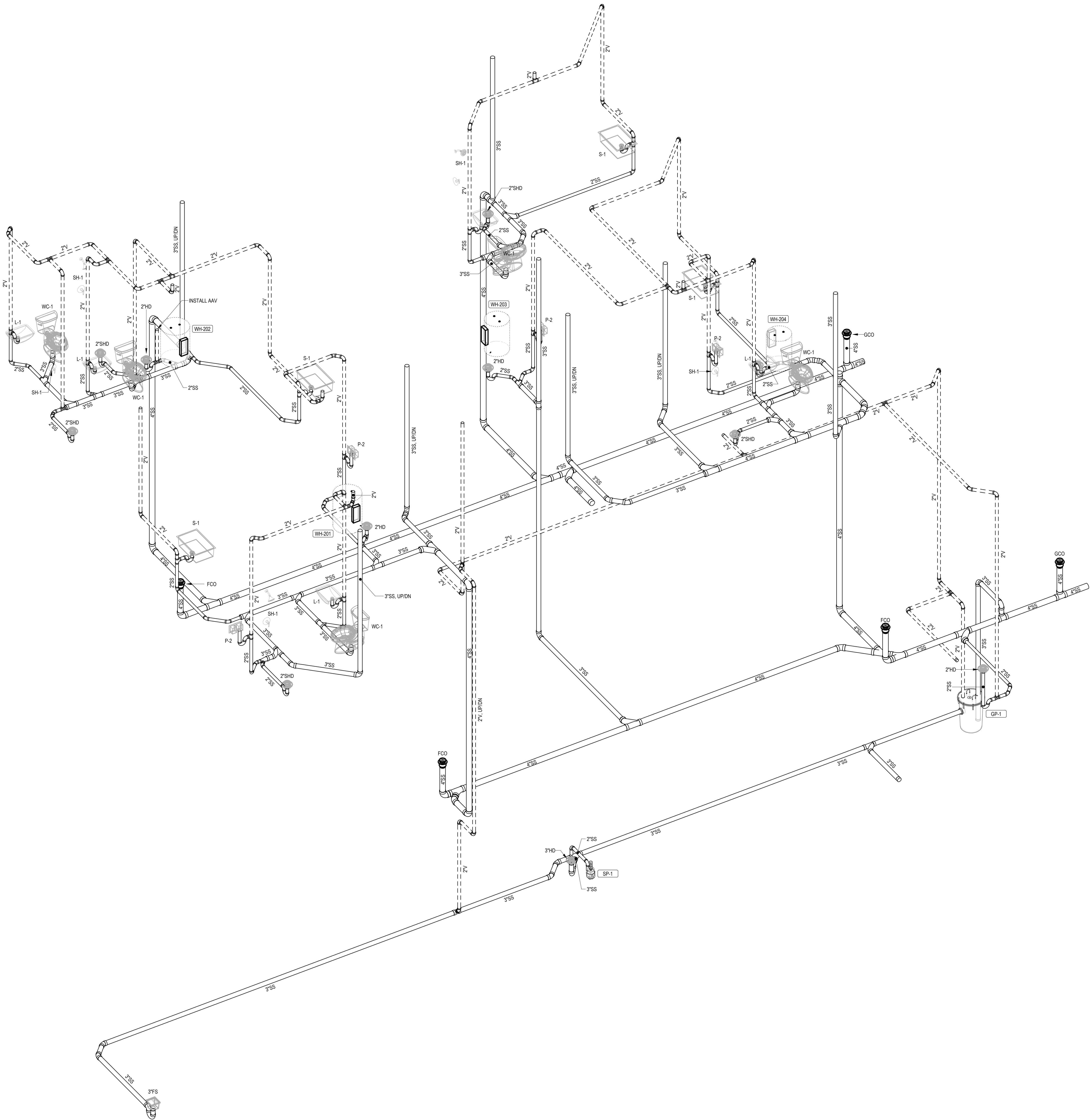
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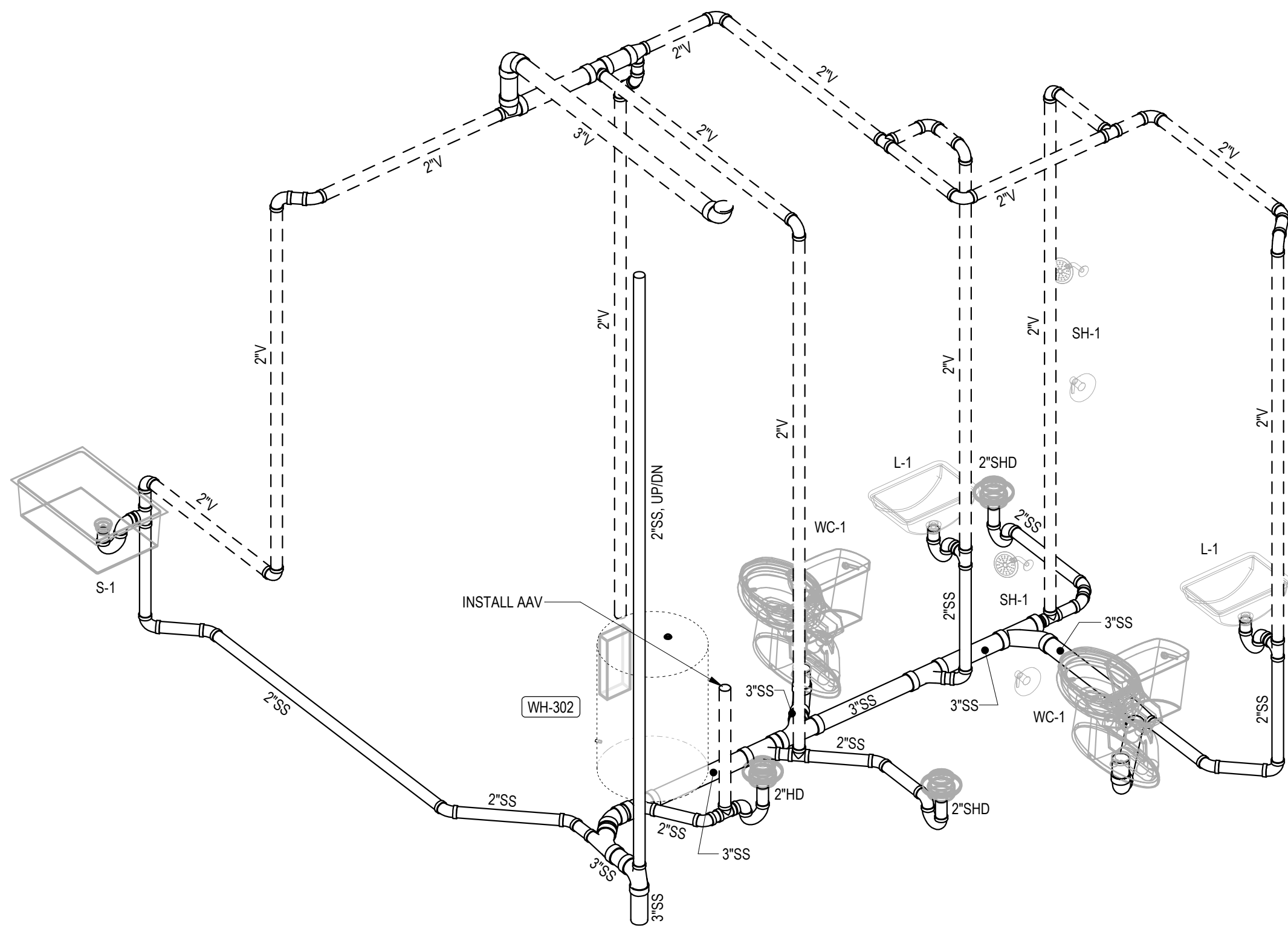
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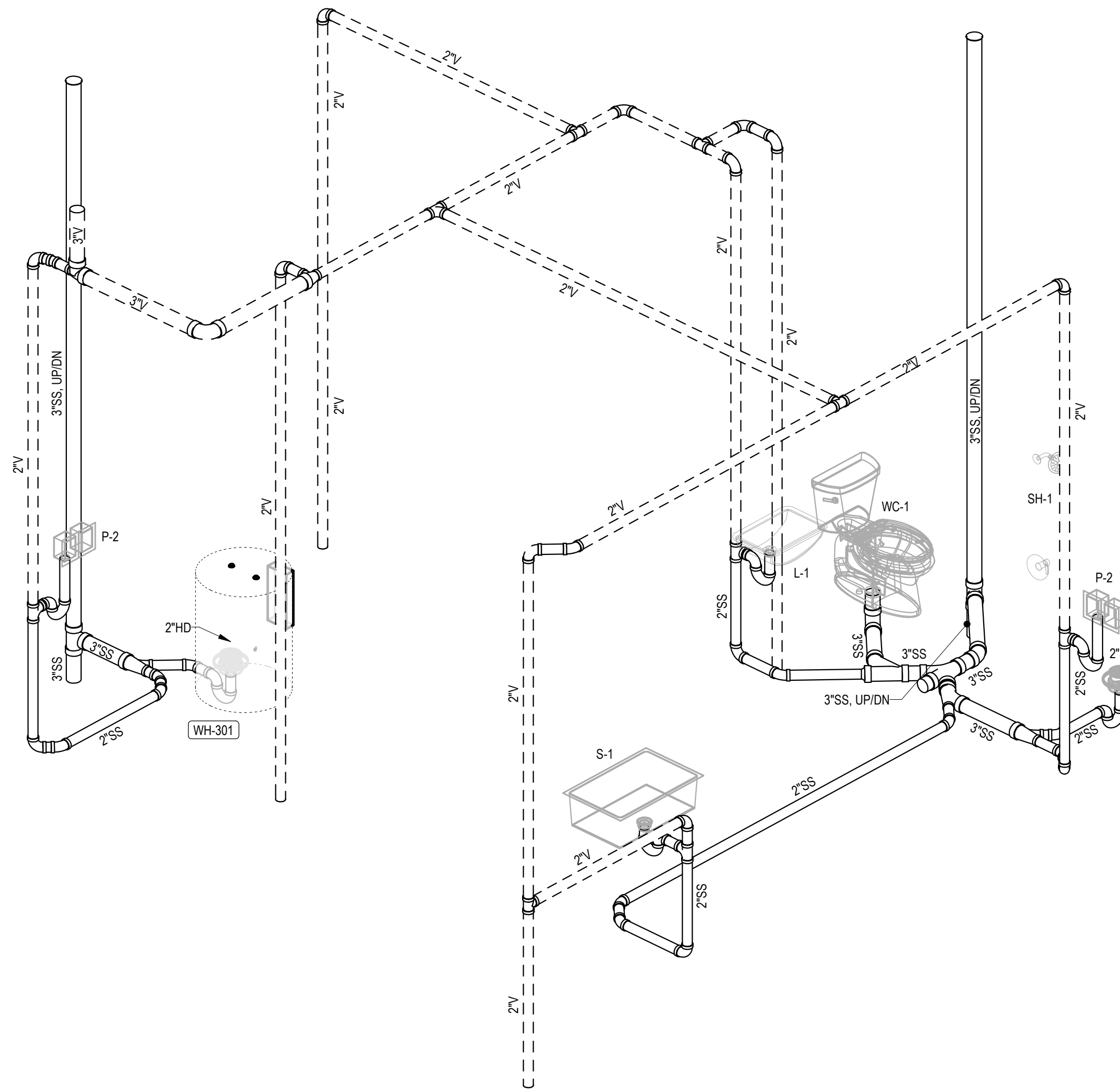
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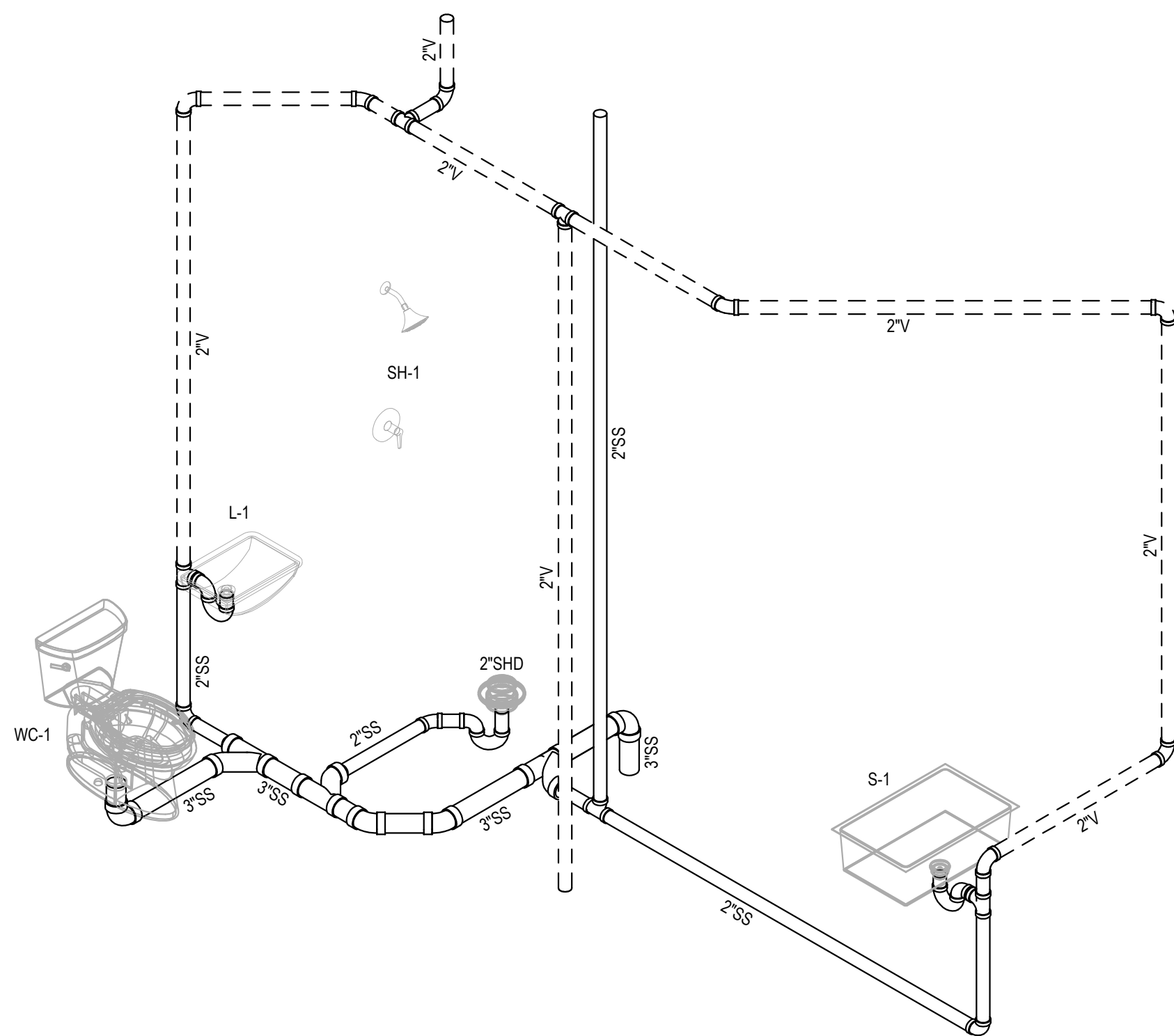




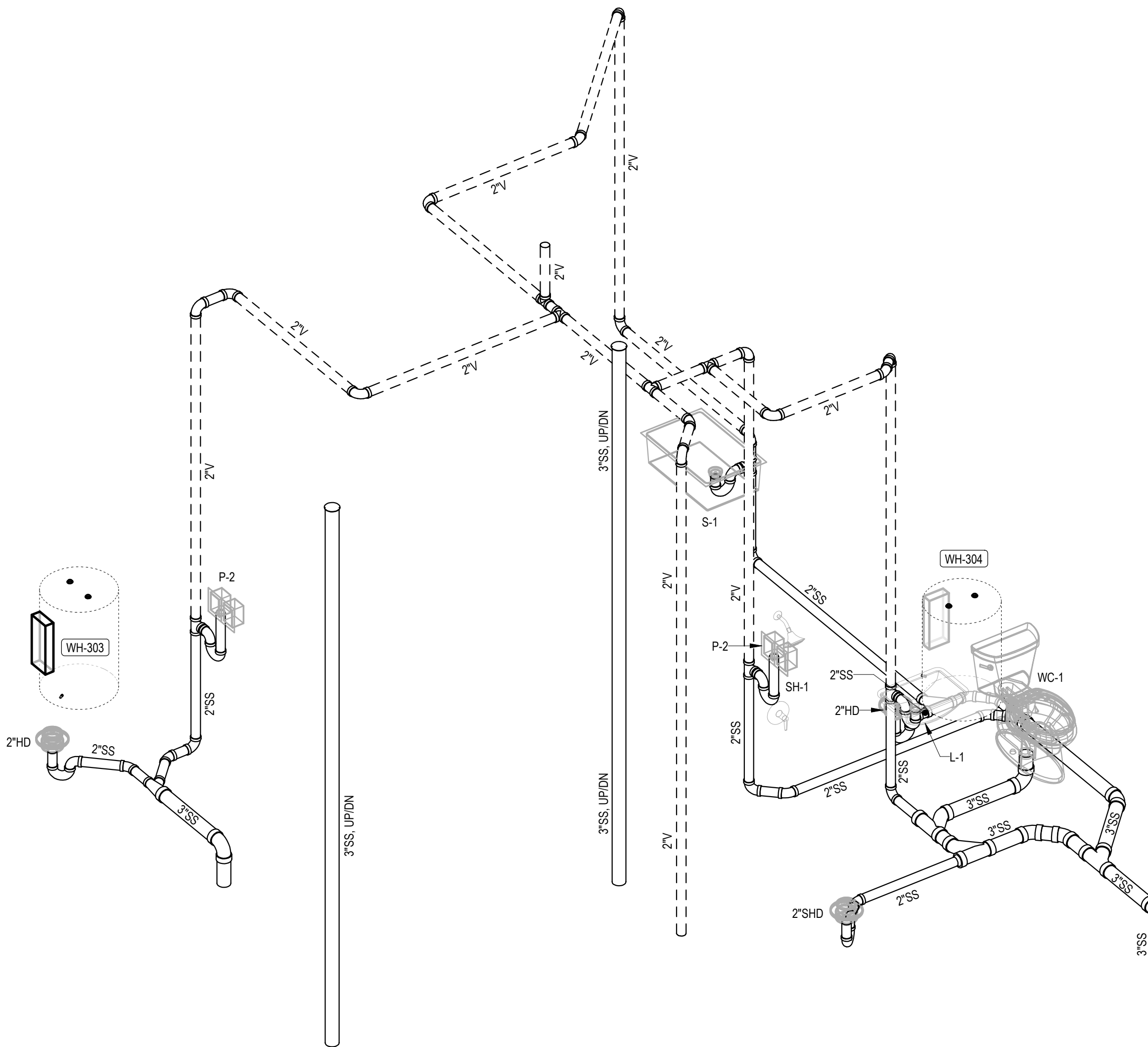
1
P-402
DRAINAGE & VENT RISER DIAGRAM #2



2
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DRAINAGE & VENT RISER DIAGRAM #3



3
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DRAINAGE & VENT RISER DIAGRAM #4



4
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DRAINAGE & VENT RISER DIAGRAM #5



ROOF TOP ADDITION

AT

408 MARTIN LUTHER KING JR. BLVD.

PLUMBING RISER DIAGRAMS

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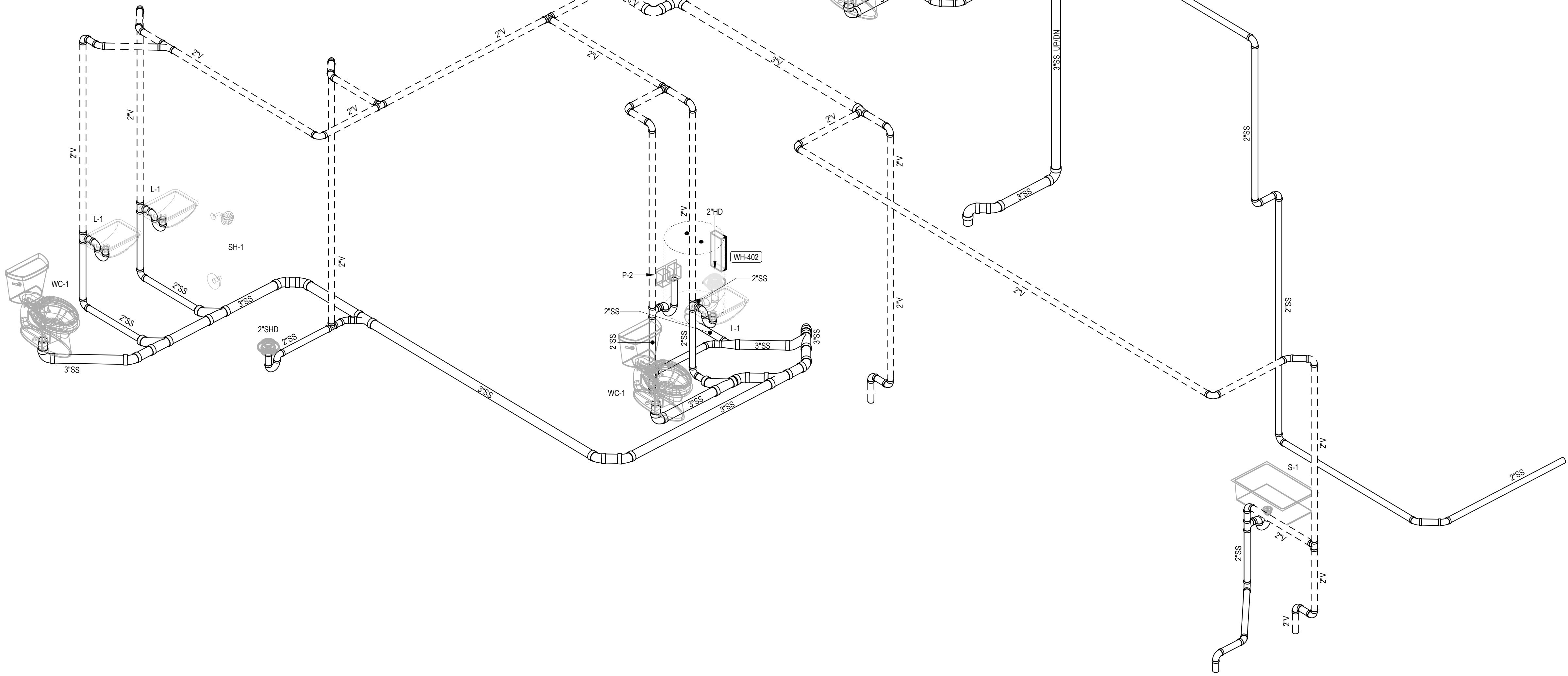
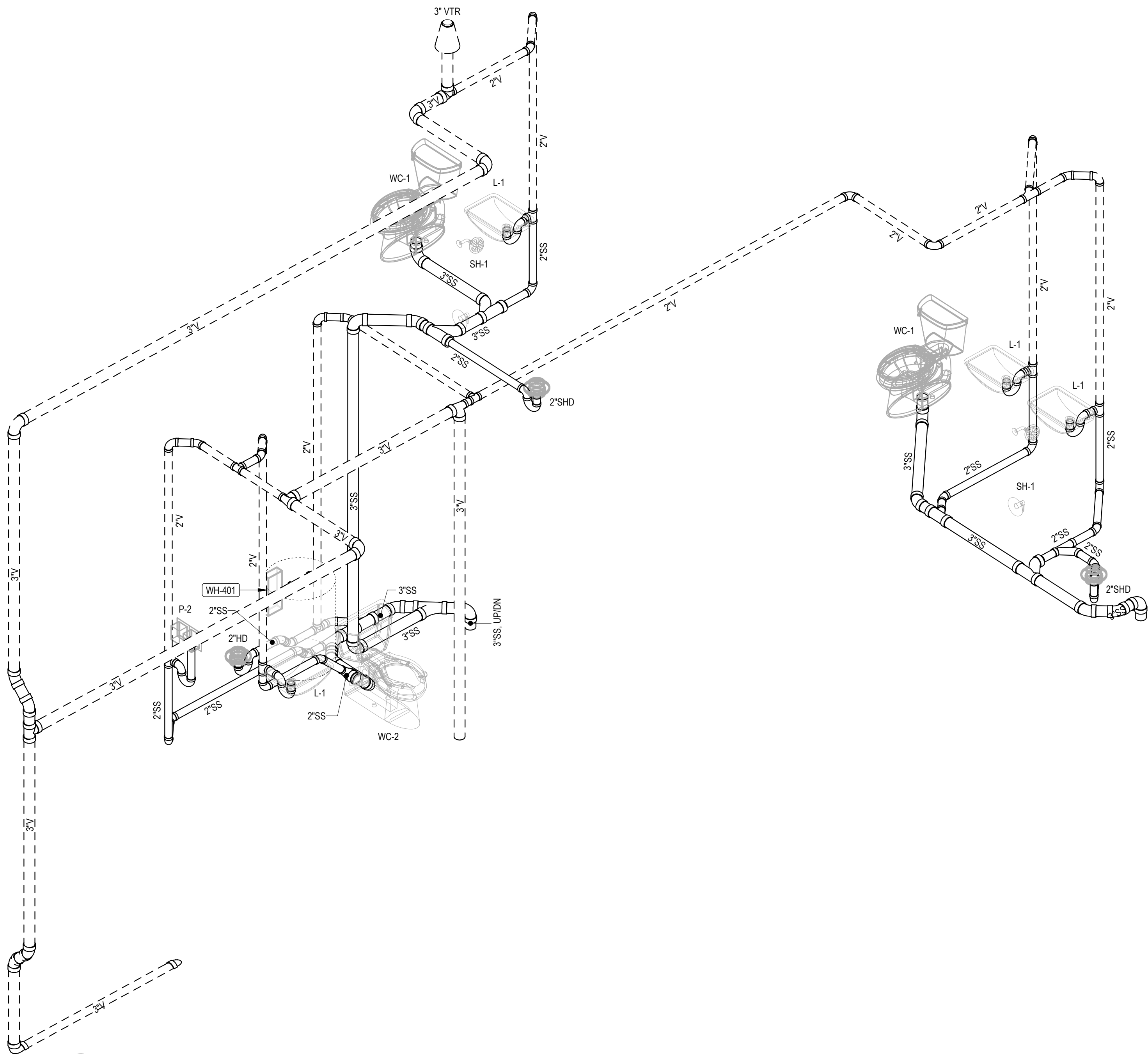
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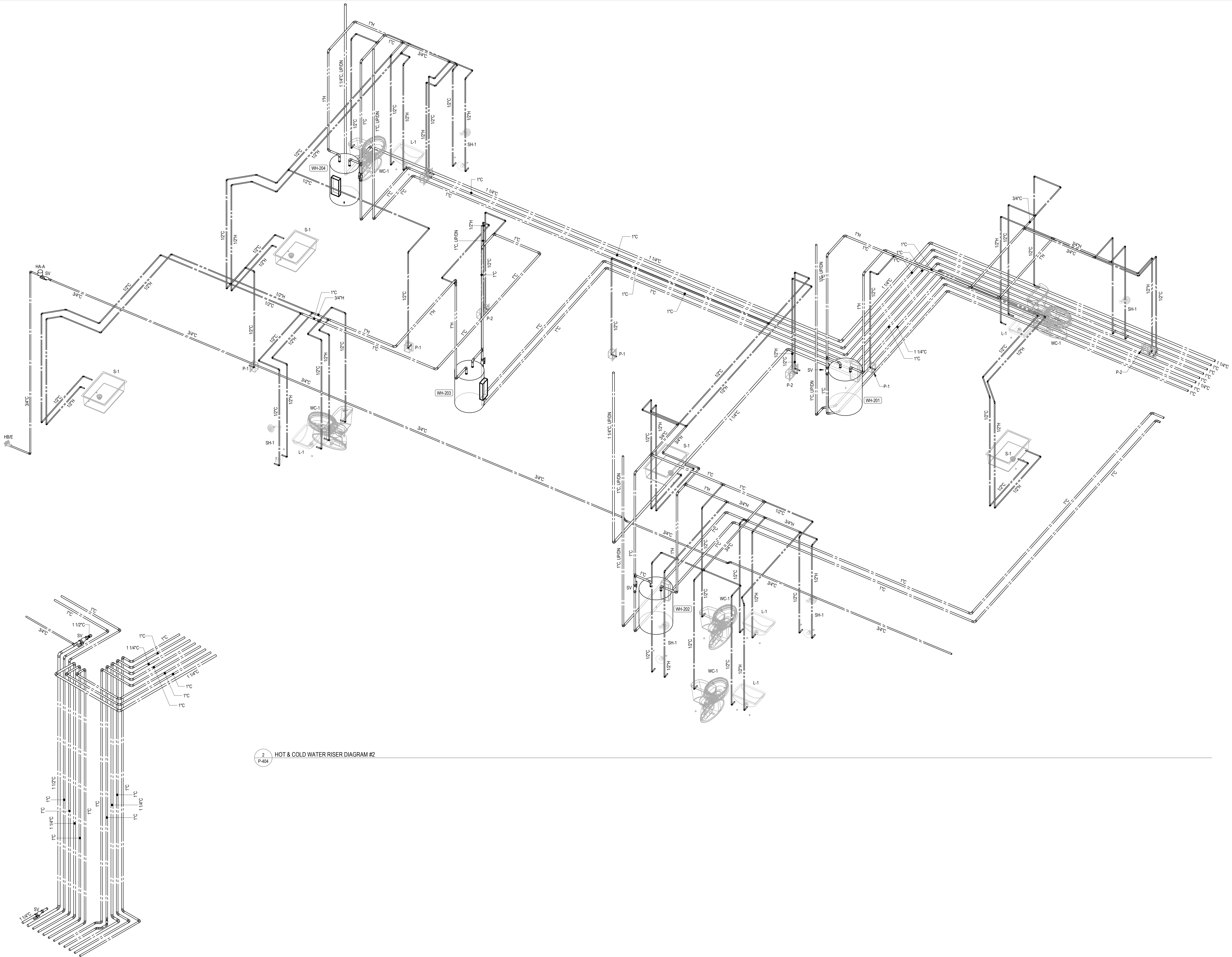
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2 HOT & COLD WATER RISER DIAGRAM #2
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1 HOT & COLD WATER RISER DIAGRAM #1
P-404



ROOF TOP ADDITION

AT

408 MARTIN LUTHER KING JR. BLVD.

PLUMBING RISER DIAGRAMS

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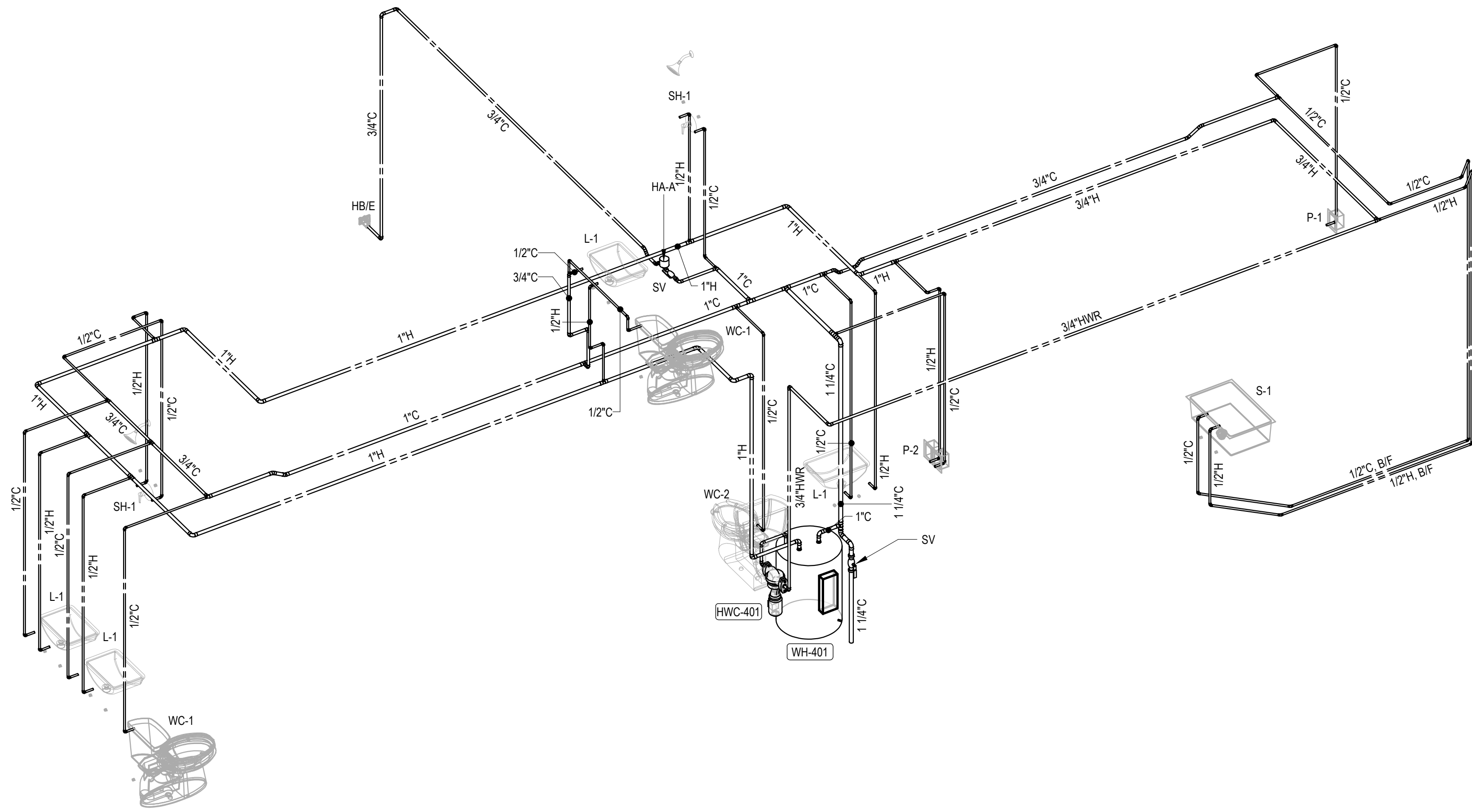
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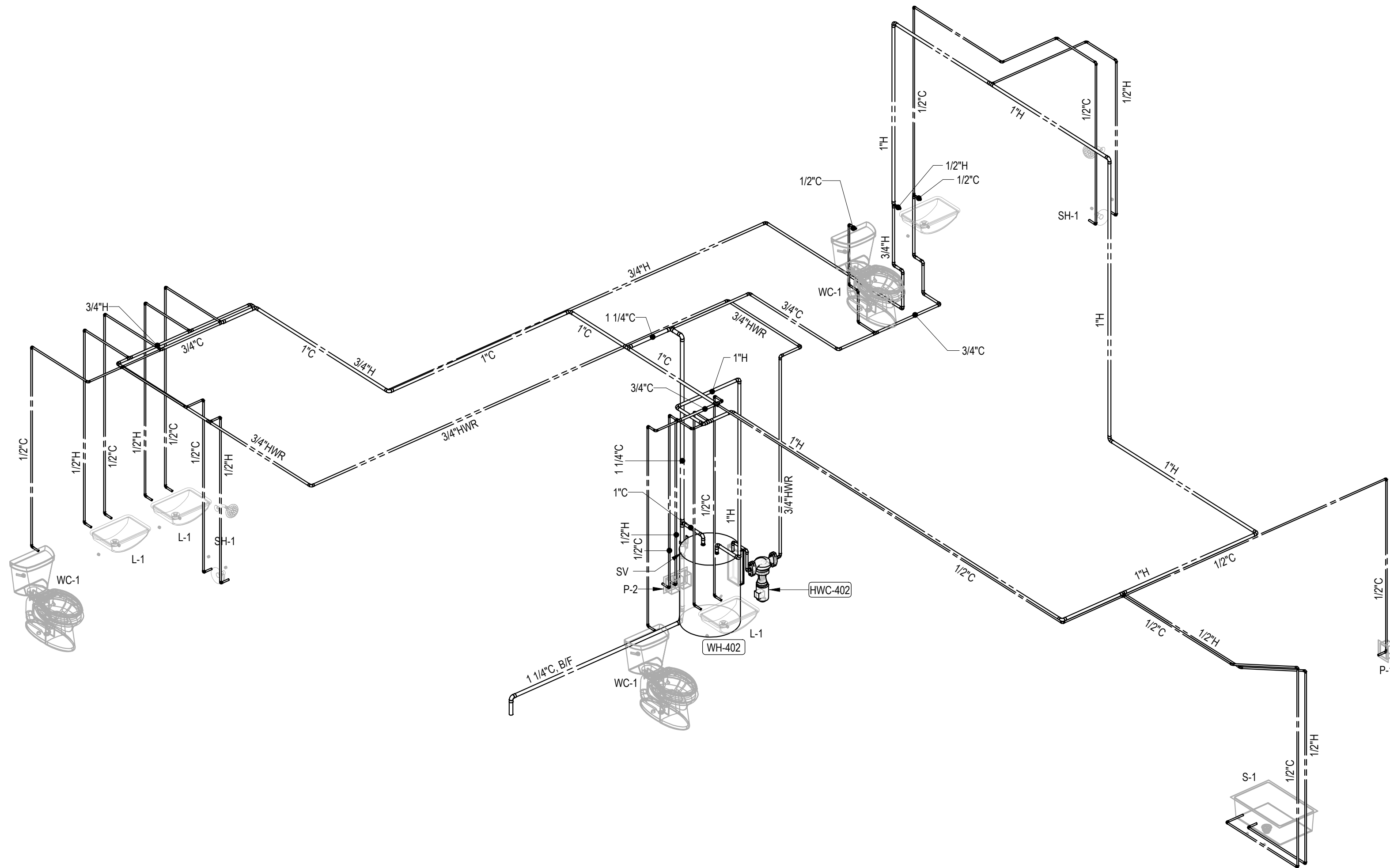
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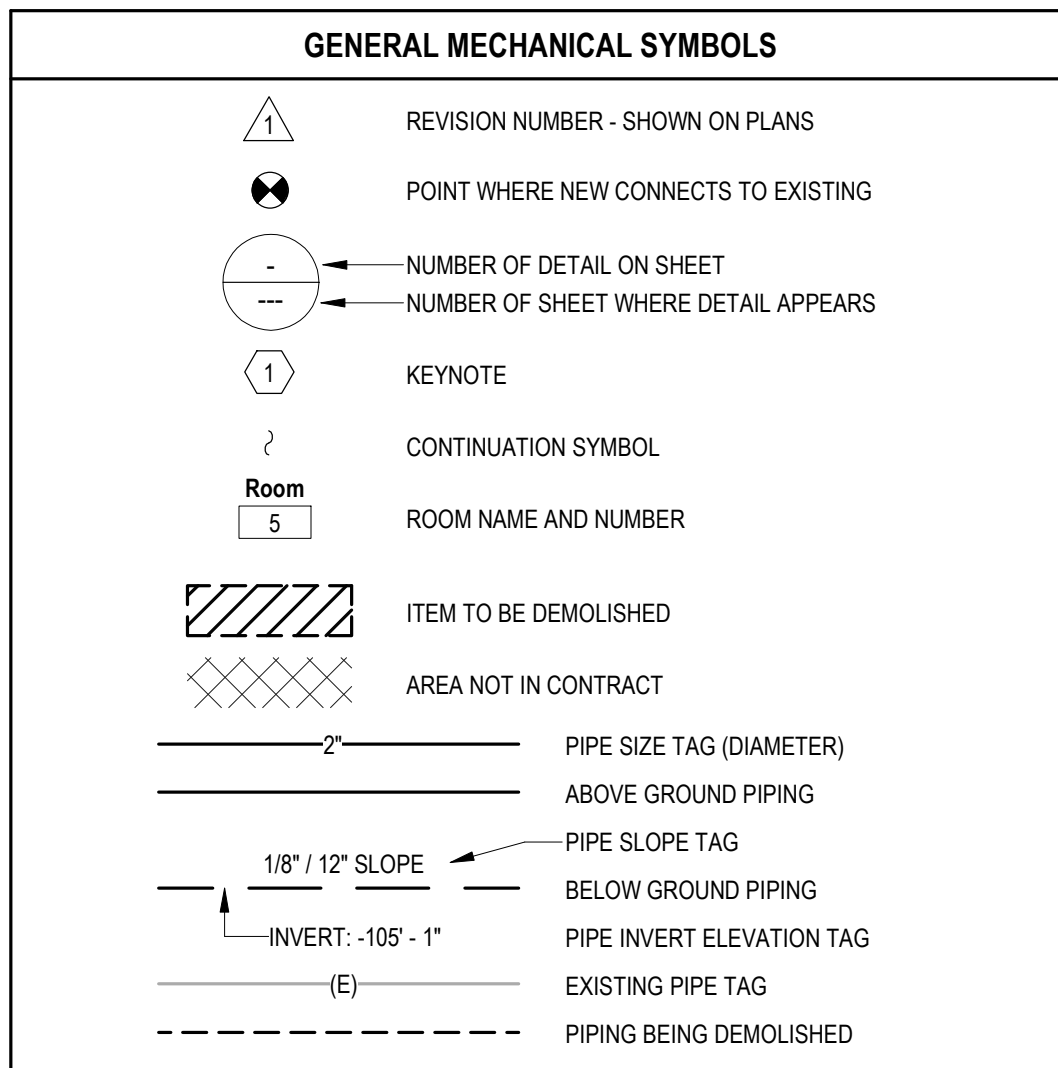
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1 HOT & COLD WATER RISER DIAGRAM #3
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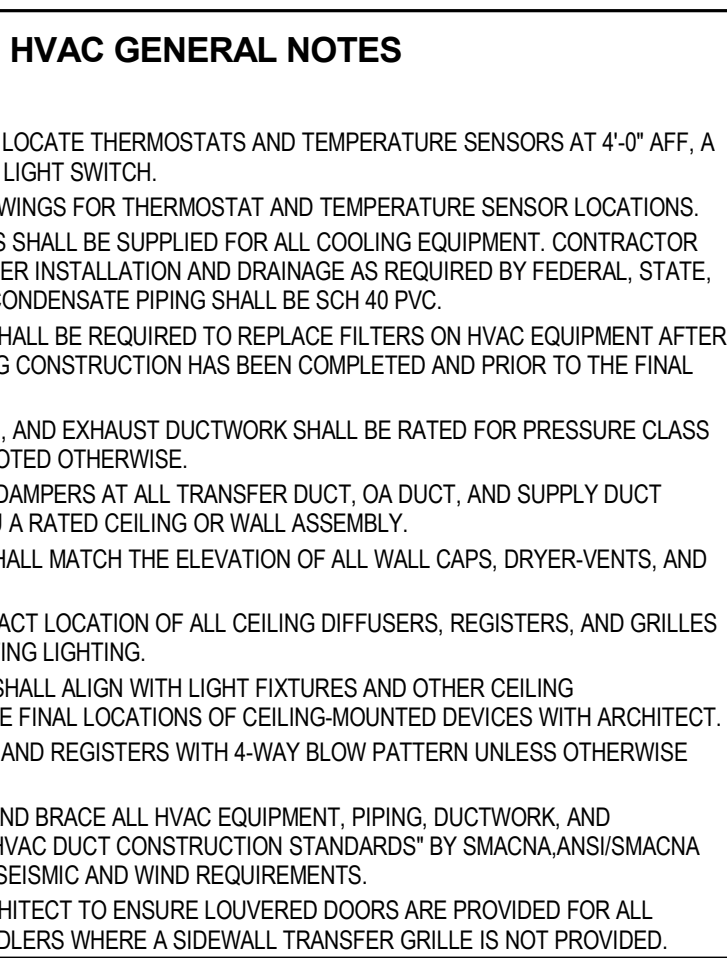
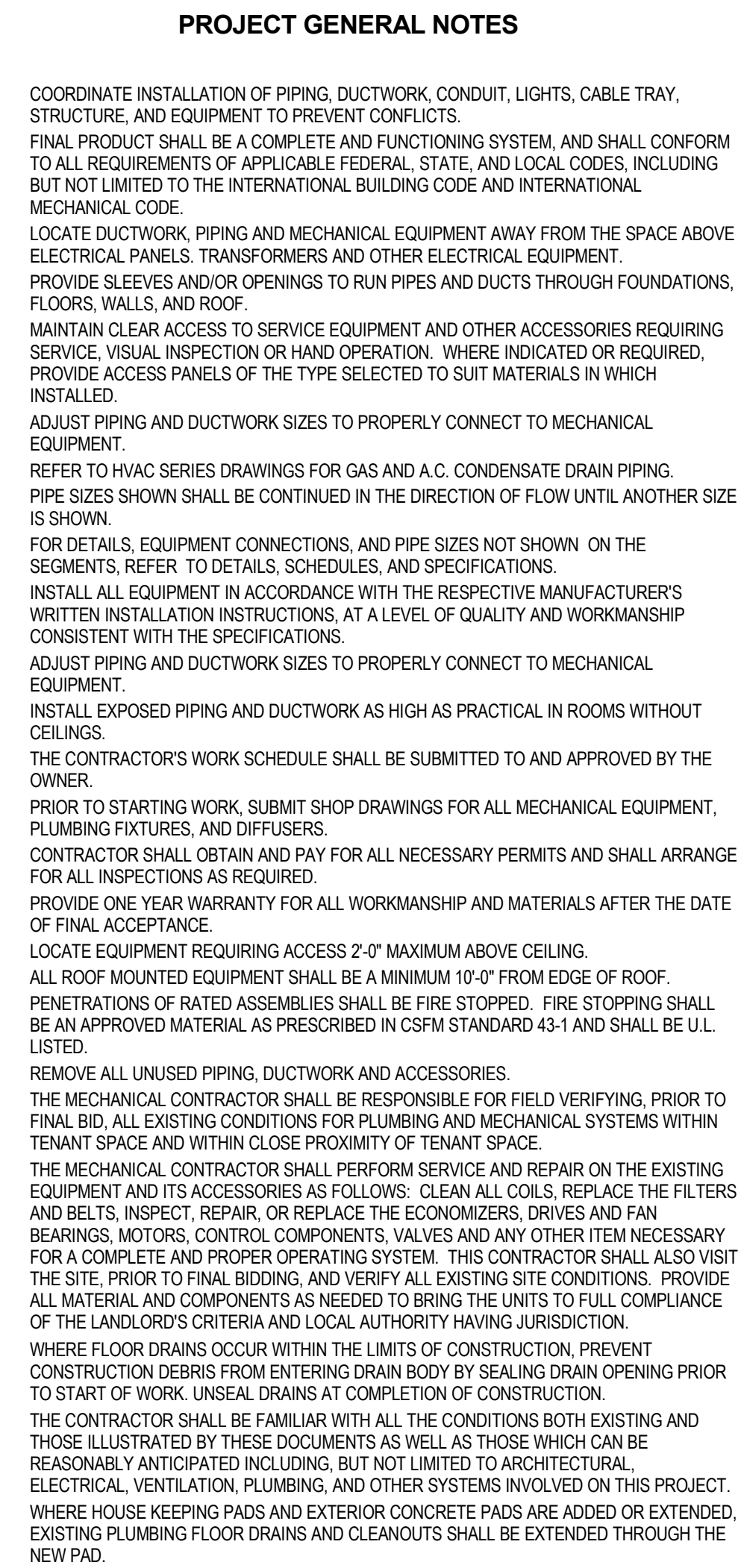
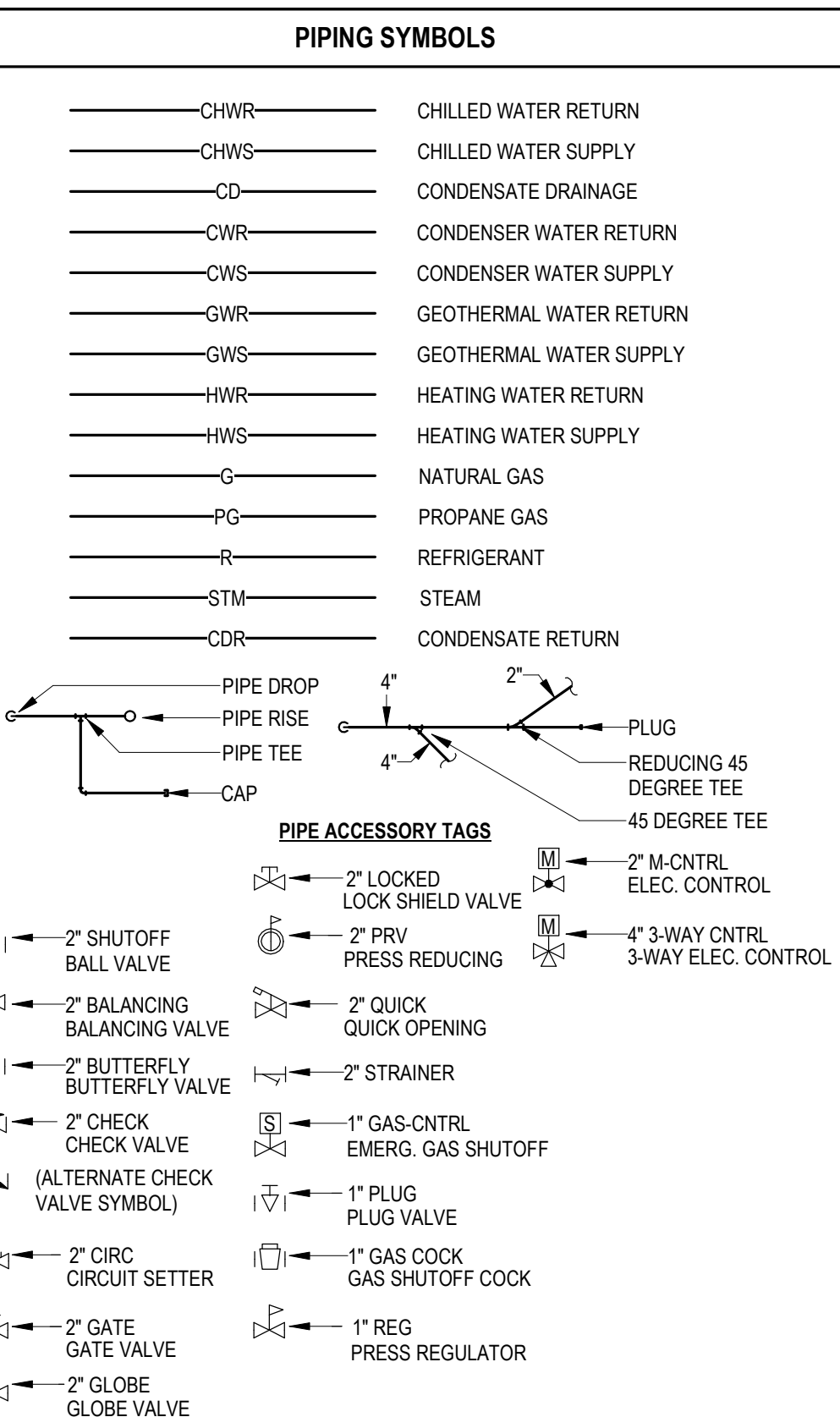
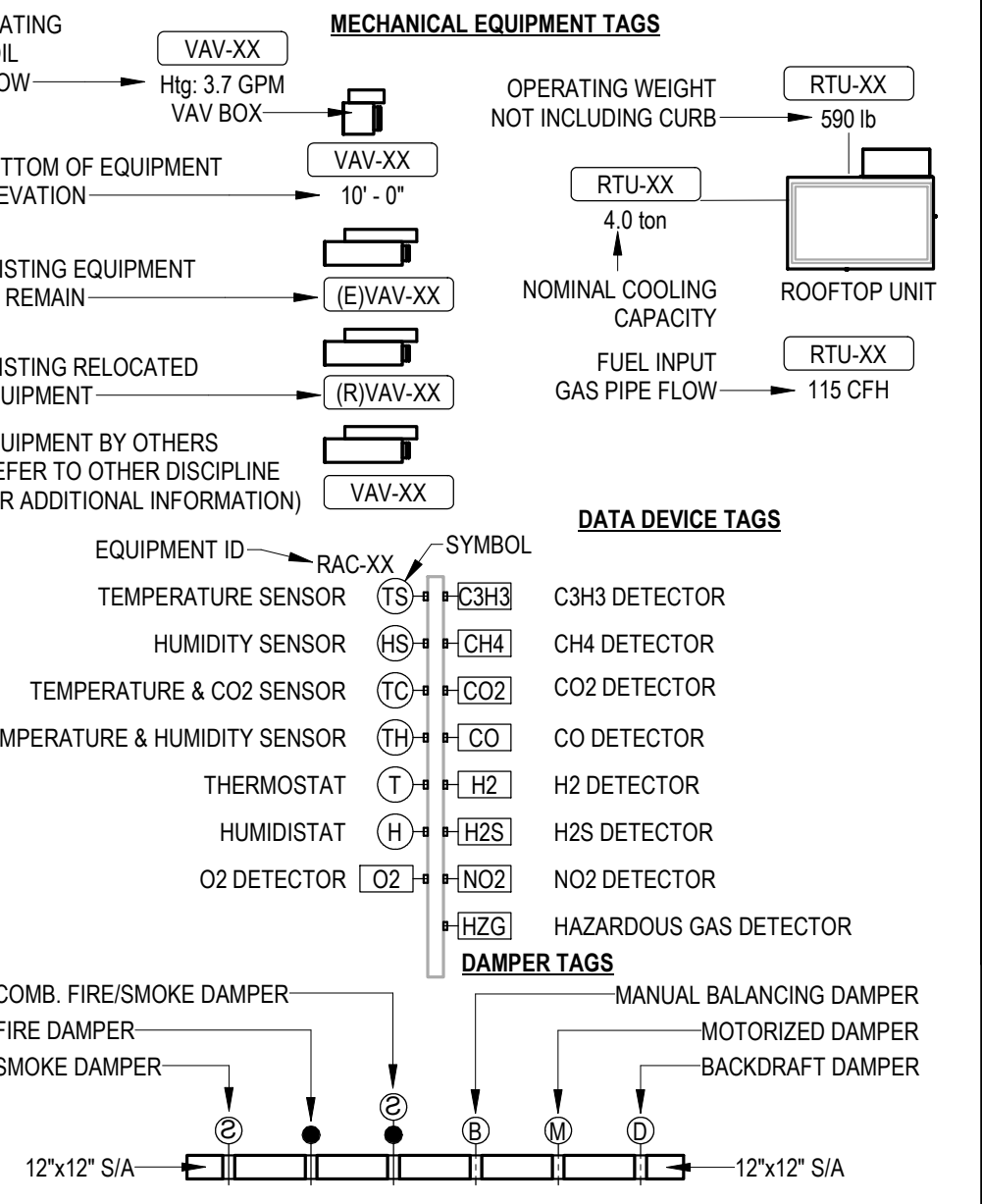
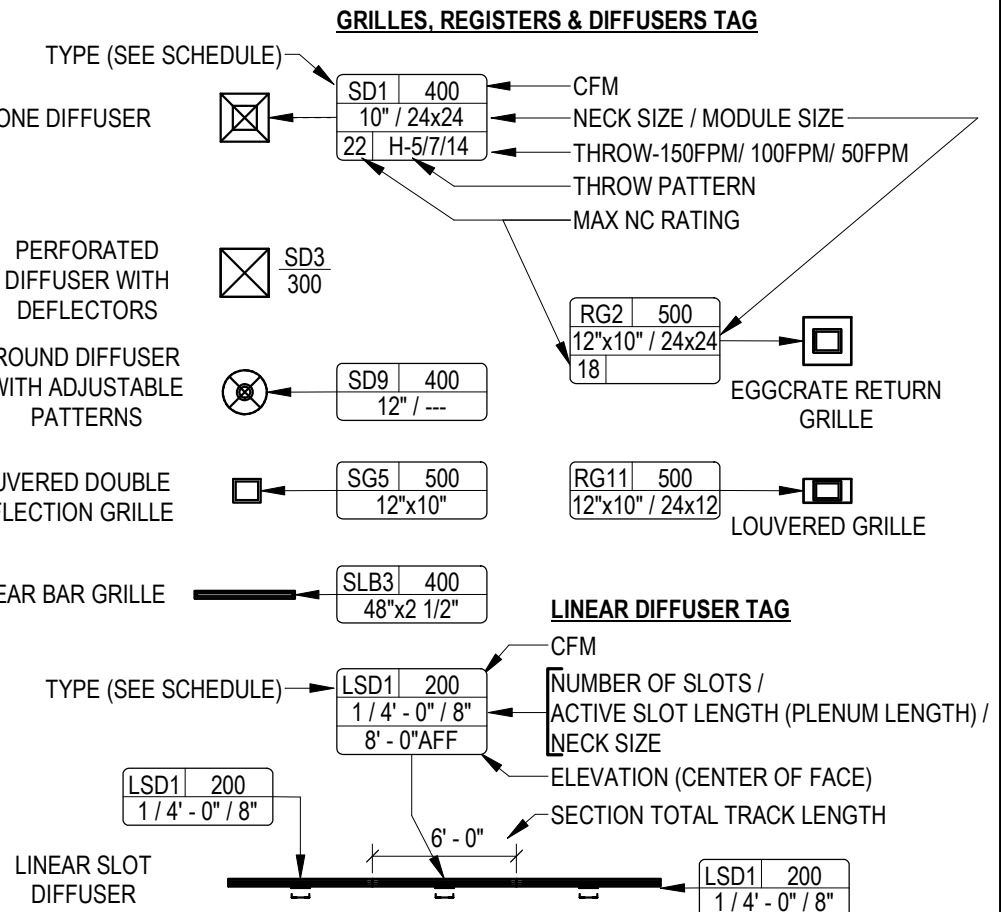
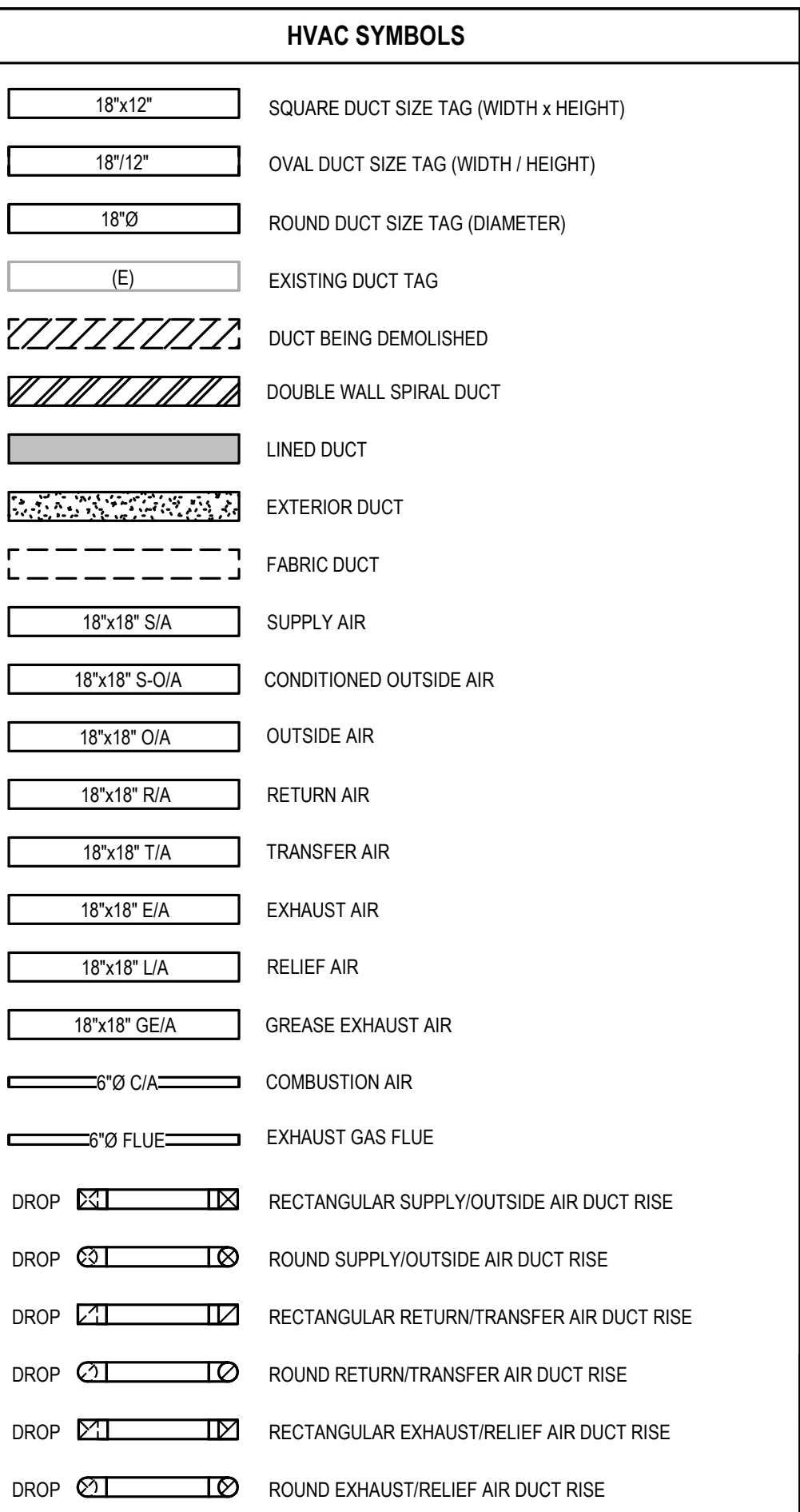
2 HOT & COLD WATER RISER DIAGRAM #4
P-405



ABBREVIATIONS		
0	ROUND	LV LOUVER
ABV	ABOVE	LWT LEAVING WATER TEMPERATURE
AC	AIR CONDITIONING	MIXED AIR
AD	AREA DRAIN	MAX MAXIMUM
ADD	ADDENDUM	MSH ONE THOUSAND BTU PER HOUR
AF	ABOVE FINISHED FLOOR	MCF ONE THOUSAND CUBIC FEET
AFUE	ANNUAL FUEL UTILIZATION EFFICIENCY	MD MOTORIZED DAMPER
ALT	ALTERNATE	MECH MECHANICAL
AP	ACCESS PANEL	MFR MANUFACTURER
ARCH	ARCHITECT/ARCHITECTURAL	MIN MINIMUM
BFF	BELOW FINISHED FLOOR	MISC MISCELLANEOUS
BLW	BELOW	MTR MOTOR
BTU	BRITISH THERMAL UNITS	MUA MAKE-UP/AIR
BTUH	BRITISH THERMAL UNITS PER HOUR	NC NOISE CRITERIA
CAP	CAPACITY	NC NORMALLY CLOSED
CB	CATCH BASIN	NC NOT IN CONTRACT
CFM	CUBIC FEET PER MINUTE	NO NUMBER
CLG	CLEAN OUT	NO NORMALLY OPEN
CO	CLEAN OUT	NTS NOT TO SCALE
CW	COLD WATER	O OXYGEN
D	DEGREE	O/A OUTSIDE AIR
DB	DRY BULB	ORD OVERFLOW ROOF DRAIN
DIA	DIAMETER	PD PRESSURE DROP
DN	DOWN	PV POST INDICATOR VALVE
DW	DISTILLED WATER	PLB3 PLUMBING
EA	EACH	PRESS PRESSURE
EAT	ENTERING AIR TEMPERATURE	PRV PRESSURE REDUCING VALVE
ELEC	ELECTRICAL	PSI POUNDS PER SQUARE INCH
EQUIP	EQUIPMENT	PSIG POUNDS PER SQUARE INCH GAUGE
EW	ELECTRIC WATER COOLER	PWR POWER
EWT	ENTERING WATER TEMPERATURE	R DUCT RISER
E/A	EXHAUST AIR	R/A RETURN AIR
EXIST	EXISTING	RCF RADIANT CEILING PANEL
F	DEGREES FAHRENHEIT	RD ROOF DRAIN
FCO	FLOOR CLEAN OUT	REC RECESSED
FD	FLOOR DRAIN	RED REDUCER
FD	FIRE DAMPER	RH RELATIVE HUMIDITY
FDSO	COMBINATION FIRE / SMOKE DAMPER	R/LA RELIEF AIR
FDC	FIRE DEPARTMENT CONNECTION	RM ROOM
FL	FLOOR	RMV REVOLUTIONS PER MINUTE
FO	FUEL OIL	RW RAIN WATER
FOV	FUEL OIL VENT	SF SQUARE FOOT
FOR	FUEL OIL RETURN	S/A SUPPLY AIR
FOS	FUEL OIL SUPPLY	SAN SANITARY
FS	FEET PER MINUTE	SF SQUARE FOOT
FS	FLOOR SINK	SD SMOKE DAMPER
FT	FOOT/FEET	SM SURFACE MOUNT
FTR	FIN TUBE RADIATION	SP STANDPIPE
GAL	GALLON	SP STATIC PRESSURE
GF	GAS-FIRED	STM STEAM
GC	GENERAL CONTRACTOR	T THERMOSTAT
GPM	GALLONS PER MINUTE	TD TEMPERATURE DROP
GW	GREASE WASTE	TDR TRENCH DRAIN
HS	HOSE BIB	TEMP TEMPERATURE
HTG	HORSE POWER	TYP TYPICAL
HTR	HEATER	UG UNDERGROUND
HW	HOT WATER	VAC VACUUM
HYD	HYDRAUNT	V VENT
ID	INDIRECT	VAV VARIABLE AIR VOLUME
IN	INCH	VENT VENTILATION
INV	INVERT	VTR VENT THROUGH ROOF
LB	POUND	W WASTE
LBHR	POUNDS PER HOUR	WB WET BULB
LAT	LEAVING AIR TEMPERATURE	WCO WALL CLEAN OUT
LP	LOW PRESSURE	WH WALL HYDRANT
LPG	LIQUEFIED PETROLEUM GAS	

EQUIPMENT ABBREVIATIONS		
AC	AIR CONDITIONOR	FCU FAN COIL UNIT
AH	AIR HANDLER	FF FLY FAN
AHU	AIR HANDLING UNIT	GRV GRAVITY ROOF VENTILATOR
AS	AIR SEPARATOR	HP HEAT PUMP
B	BOILER	HWP HEATING WATER PUMP
CH	CHILLER	HRC HEAT RECOVERY CONTROLLER
CT	COOLING TOWER	KEF KITCHEN EXHAUST FAN
CUH	CABINET UNIT HEATER	MAU MAKEUP AIR UNIT
CHWP	CHILLED WATER PUMP	RAC ROOFTOP AIR CONDITIONER
DH	DUCTLESS AIR HANDLER	RHP ROOFTOP HEAT PUMP
DHP	DUCTLESS HEAT PUMP	SF SUPPLY FAN
DOAS	DEDICATED OUTDOOR AIR SYSTEM	TF TRANSFER FAN
EF	EXHAUST FAN	LH UNIT HEATER
EH	ELECTRIC HEATER	VAH VRF AIR HANDLER
ERV	ENERGY RECOVERY VENTILATOR	VHP VRF HEAT PUMP
ET	EXPANSION TANK	VRF VARIABLE REFRIGERANT FLOW

*NOTE:
ALL OF GENERAL NOTES ON THIS SHEET ARE TO BE APPLIED TO ALL OTHER DRAWINGS IN THIS SET. THE SYMBOLS AND ABBREVIATIONS SHOWN ON THIS SHEET MAY OR MAY NOT BE USED IN THIS SET OF DRAWINGS.



HVAC SHEET INDEX

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M-102	SECOND FLOOR HVAC PLAN
M-103	THIRD FLOOR HVAC PLAN
M-104	FOURTH FLOOR HVAC PLAN
M-105	MEZZANINE HVAC PLAN
M-120	ROOF HVAC PLAN

J.ELDER STUDIO

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Suite 201
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ROOF TOP ADDITION
AT
408 MARTIN LUTHER KING JR. BLVD.
HVAC TITLE SHEET

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MECHANICAL SPECIFICATIONS

GENERAL PROVISIONS

IMPOSED REGULATIONS: APPLICABLE PROVISIONS OF THE STATE AND LOCAL CODES AND OF THE FOLLOWING CODES AND STANDARDS, IN ADDITION TO THOSE LISTED ELSEWHERE IN THE SPECIFICATIONS, ARE HEREBY IMPOSED ON A GENERAL BASIS FOR MECHANICAL WORK:

INTERNATIONAL MECHANICAL CODE - 2018 EDITION
INTERNATIONAL ENERGY CONSERVATION CODE - 2015 EDITION
INTERNATIONAL FUEL GAS CODE - 2018 EDITION

SCOPE OF WORK: PROVIDE ALL LABOR, MATERIALS, EQUIPMENT AND SUPERVISION TO CONSTRUCT COMPLETE AND OPERABLE MECHANICAL SYSTEMS AS INDICATED ON THE DRAWINGS AND SPECIFIED HEREIN. ALL MATERIALS AND EQUIPMENT USED SHALL BE NEW, UNDAMAGED AND FREE FROM ANY DEFECTS.

PRODUCT WARRANTIES: PROVIDE MANUFACTURER'S STANDARD PRINTED COMMITMENT IN REFERENCE TO A SPECIFIC PRODUCT AND NORMAL APPLICATION, STATING THAT CERTAIN ACTS OF RESTITUTION WILL BE PERFORMED FOR THE PURCHASER OR OWNER BY THE MANUFACTURER, WHEN AND IF THE PRODUCT FAILS WITHIN CERTAIN OPERATIONAL CONDITIONS AND TIME LIMITS. WHERE THE WARRANTY REQUIREMENTS OF A SPECIFIC SPECIFICATION SECTION EXCEEDS THE MANUFACTURER'S STANDARD WARRANTY, THE MORE STRINGENT REQUIREMENTS WILL APPLY AND MODIFIED MANUFACTURER'S WARRANTY SHALL BE PROVIDED. IN NO CASE SHALL THE MANUFACTURER'S WARRANTY BE LESS THAN ONE (1) YEAR.

ELECTRICAL WORK: COORDINATE THE MECHANICAL WORK WITH ELECTRICAL WORK, AND PROPERLY INTERFACE WITH THE ELECTRICAL SERVICE. IN GENERAL, AND EXCEPT AS OTHERWISE INDICATED, INSTALL MECHANICAL EQUIPMENT READY FOR ELECTRICAL CONNECTION. REFER TO ELECTRICAL SECTIONS OF THE SPECIFICATIONS FOR ELECTRICAL CONNECTION OF MECHANICAL EQUIPMENT.

THE PLANS SHOW THE GENERAL ARRANGEMENT AND LOCATIONS OF MECHANICAL WORK. THE CONTRACTOR SHALL COORDINATE THE MECHANICAL INSTALLATION WITH THE STRUCTURE AND ALL OTHER TRADES. PERFORM ALL WORK IN ACCORDANCE WITH CURRENT STATE AND LOCAL CODES. SUBMIT PDF FILES OF MANUFACTURER'S DATA PRIOR TO EQUIPMENT PURCHASES.

COORDINATE THE ACTUAL LOCATION OF ALL MECHANICAL WORK VISIBLE IN FINISHED SPACES WITH THE ARCHITECT. THIS INCLUDES AIR DISTRIBUTION DEVICES, EXPOSED DUCTWORK, THERMOSTATS, HUMIDISTATS, SWITCHES, SENSORS, ETC. ALL THERMOSTATS AND WALL-MOUNTED SENSORS SHALL BE INSTALLED A MAXIMUM OF 48" AFF.

THE CONTRACTOR SHALL FURNISH DETAILED SHOP DRAWINGS OF ALL FIRESTOPPING DETAILS TO BE USED FOR BOTH PIPING AND DUCTWORK. ALL FIRESTOPPING DETAILS SHALL BE U.L. LISTED AND SUBJECT TO APPROVAL BY THE AUTHORITY HAVING JURISDICTION.

WIND ANCHORAGE REQUIREMENTS SHALL BE SUBMITTED FOR ALL CURB MOUNTED EQUIPMENT AND ROOF MOUNTED EQUIPMENT. FASTENERS SHALL BE SELECTED AND DETAILED ON A PROJECT-SPECIFIC BASIS BY A REGISTERED DESIGN PROFESSIONAL. PROVIDE CALCULATIONS FOR UNIT CONNECTIONS TO SUPPORT/CURB, AND FOR SUPPORT/CURB TO STRUCTURE. THE DESIGN WIND SPEED IS 148 MPH.

PROVIDE A TEST AND BALANCE REPORT BY A NEBB CERTIFIED TAB FIRM.

SUBMIT O&M MANUAL AND EQUIPMENT WARRANTIES UPON COMPLETION OF WORK.

MECHANICAL IDENTIFICATION MATERIALS:

ENGRAVED PLASTIC-LAMINATE LABELS: PROVIDE ENGRAVING STOCK MELAMINE PLASTIC LABELS FOR PERMANENT MOUNTING ON MECHANICAL EQUIPMENT. INDICATE UNIT NAME, NUMBER, AND ELECTRICAL PANEL SERVING THE EQUIPMENT.

PIPING:

PROVIDE PIPING, FITTINGS, HANGERS, AND SUPPORTS AS REQUIRED, AS INDICATED ON DESIGN DOCUMENTS, AND AS FOLLOWS:

REFRIGERANT PIPING: REFRIGERANT PIPING SHALL BE SEAMLESS COPPER SUITABLE FOR A WORKING PRESSURE OF 300 PSIG. FITTINGS SHALL BE WROUGHT COPPER OR BRASS SUITABLE FOR USE WITH HIGH TEMPERATURE SOLDER AND DESIGNED FOR 300 PSIG WORKING PRESSURE. REFRIGERANT PIPING INSULATION SHALL BE INSTALLED AS RECOMMENDED BY THE MANUFACTURER, WITH MINIMUM THICKNESSES AS REQUIRED BY IECC TABLE 403.2.10. PIPE INSULATION EXPOSED OUTDOORS SHALL BE COVERED WITH ALUMINUM METAL JACKETS. SUSPEND REFRIGERANT PIPING ON COPPER CLEVIS HANGERS WITH INSULATION SHIELDS. TRAPPEZ-MOUNTED PIPING SHALL USE METAL STRUT CLAMPS THAT PROVIDE A CONTINUOUS INSULATION BARRIER AND/OR CUSH-A-CLAMP OR EQUAL. PLASTIC STRUT CLAMPS ARE NOT ACCEPTABLE.

HVAC DRAIN PIPING: HVAC DRAIN LINES SHALL BE SCHEDULE 40 PVC WITH SOCKET TYPE FITTINGS AND SOLVENT CEMENT. INDOOR HVAC DRAIN LINES INDOORS SHALL HAVE 1" FIBERGLASS PIPE INSULATION WITH VAPOR BARRIER. SUSPEND INDOOR HVAC DRAIN PIPING ON CLEVIS HANGERS WITH INSULATION SHIELDS. SUPPORT OUTDOOR HVAC DRAIN PIPING ON NON-PENETRATING PIPE PEDESTALS. LOCATE EQUIPMENT AND ASSOCIATED DUCTWORK AND PIPING TO PROVIDE MANUFACTURER'S RECOMMENDED SERVICE CLEARANCES. PVC HVAC DRAIN LINES OUTDOORS SHALL RECEIVE 2 COATS OF WHITE LATEX PAINT TO PREVENT UV DEGRADATION.

DUCTWORK AND ACCESSORIES:

DUCTWORK SHOWN ON THE PLANS IS SIZED AND ROUTED BASED ON INFORMATION AVAILABLE DURING THE DESIGN PHASE FOR CEILING HEIGHTS, STRUCTURAL MEMBERS, ETC. ALL DUCT SIZES AND ROUTINGS MUST BE CONFIRMED IN THE FIELD BY THE CONTRACTOR PRIOR TO FABRICATION AND INSTALLATION. WHERE CONFLICTS ARISE, REFER TO THE ENGINEER.

SUPPLY AIR DUCTS AND RETURN AIR DUCTS SHALL BE 300 GALVANIZED STEEL INSULATED WITH 2" THICK R-6.7 FIBERGLASS DUCT WRAP WITH VAPOR BARRIER. PROVIDE FLEXIBLE CONNECTIONS AT ALL UNIT SUPPLY AIR AND RETURN AIR TRUNK DUCTS. ALL DUCTS SHALL BE FABRICATED AND INSTALLED PER SMACNA STANDARDS FOR 2" STATIC PRESSURE RATING.

FIRE DAMPERS (WALLS AND FLOORS): PROVIDE CURTAIN TYPE, HINGED BLADE, VERTICAL AND/OR HORIZONTAL MOUNTING FIRE DAMPERS, SUITABLE FOR DUCT PENETRATION OR OPENING PROTECTION AS REQUIRED ON THE DRAWINGS. STYLE 'N' DAMPERS SHALL BE USED AT WALL REGISTERS/GRILLE LOCATIONS. STYLE 'B' DAMPERS SHALL BE USED AT DUCT PENETRATIONS. DAMPERS SHALL MEET THE REQUIREMENTS OF NFPA 90A AND UL-555. FRAME SHALL BE MINIMUM 20 GAUGE GALVANIZED STEEL WITH 165 DEGREE F FUSIBLE LINK. BLADES SHALL BE MINIMUM 24 GAUGE GALVANIZED STEEL. DAMPERS SHALL BE AS MANUFACTURED BY AIR BALANCE, GREENHECK, NALOR, NATIONAL CONTROLLED AIR, PHILLIPS-AIRE, PREFCO, RUSKIN, SAFE-AIR AND UNITED.

AIR DISTRIBUTION DEVICES:

AIR DISTRIBUTION DEVICES SHALL BE ALUMINUM BY TITUS, KRUEGER, METALAIR® OR PRICE AND SHALL BE SUBMITTED FOR APPROVAL BEFORE ORDERING. ARCHITECT SHALL APPROVE COLOR AND FINISH OF ALL AIR DISTRIBUTION DEVICES. ALL DEVICES SHALL BE SELECTED FOR NC-20 MAXIMUM NOISE CRITERIA.

FANS:

EXHAUST FANS SHALL BE BY GREENHECK, COOK OR PENN. PROVIDE DISCONNECT SWITCH, ROOF CURB, AND BACKDRAFT DAMPER, ALL CURB MOUNTED EQUIPMENT SHALL BE INSTALLED TO MEET SPECIFIED WIND RATING.

HEAT PUMPS:

SPLIT SYSTEM HEAT PUMPS SHALL BE BY CARRIER, TRANE OR DAIKIN. REFER TO THE EQUIPMENT SCHEDULE FOR CAPACITIES. PROVIDE PROGRAMMABLE THERMOSTATS, BUILT-IN ELECTRIC HEATER, AND SINGLE POINT POWER SUPPLY. PROVIDE 4-YEAR EXTENDED WARRANTY ON COMPRESSOR PARTS. PROVIDE CONTROLS AND ALL ACCESSORIES NEEDED FOR COMPLETE, OPERABLE SYSTEMS.

OUTDOOR HP UNITS ON GRADE SHALL BE MOUNTED TO 4" THICK REINFORCED HOUSEKEEPING PADS. HP UNITS ON ROOFS SHALL BE ANCHORED TO WELDED ALUMINUM EQUIPMENT STANDS, BASIS OF DESIGN PRECISION ALUMINUM PRODUCTS. PROVIDE 1" THICK NEOPRENE VIBRATION ISOLATION PADS FOR ALL OUTDOOR HP UNITS. REFRIGERANT LINE ROOF PENETRATIONS SHALL BE MADE THROUGH PREFABRICATED PIPE PORTALS. EXTEND COPPER REFRIGERANT LINES FROM OUTDOOR UNITS TO INDOOR UNITS.

INDOOR AH UNITS LOCATED ABOVE THE CEILING SHALL BE SUSPENDED ON THREADED HANGER RODS HVAC WITH VIBRATION ISOLATORS. FLOOR MOUNTED INDOOR UNITS SHALL BE MOUNTED ON WELDED EQUIPMENT STANDS WITH NEOPRENE PAD ISOLATION. SUSPEND A 3" DEEP WATERTIGHT EMERGENCY DRAIN PAN BENEATH EACH UNIT. DRAIN PANS SHALL BE SLIGHTLY SLOPED TO DRAIN WITH 1" EMERGENCY DRAIN LINES. PRIMARY DRAINS SHALL BE FULL SIZE WITH A HVAC DRAIN TRAPS. SECONDARY HVAC DRAIN OPENINGS SHALL BE PLUGGED. ALL AIR HANDLERS SHALL BE PROVIDED WITH RETURN FILTER RACK FOR 2" PLEATED FILTER WITH FILTER DRAWER OR HINGED FILTER DOOR.

DUCTLESS HEAT PUMPS SHALL BE BY MITSUBISHI, CARRIER, TRANE, LG, OR DAIKIN. REFER TO THE EQUIPMENT SCHEDULE FOR CAPACITIES. PROVIDE INVERTER-DRIVEN COMPRESSOR, PROGRAMMABLE THERMOSTAT, SINGLE POINT POWER SUPPLY AND WASHABLE FILTERS FOR INDOOR UNITS. PROVIDE 4-YEAR EXTENDED WARRANTY ON COMPRESSOR PARTS. PROVIDE CONTROLS AND ALL ACCESSORIES NEEDED FOR COMPLETE, OPERABLE SYSTEM.

DHP UNITS ON ROOFS SHALL BE ANCHORED TO WELDED ALUMINUM EQUIPMENT STANDS, BASIS OF DESIGN PRECISION ALUMINUM PRODUCTS. PROVIDE 1" THICK NEOPRENE VIBRATION ISOLATION PADS FOR ALL DHP UNITS. REFRIGERANT LINE ROOF PENETRATIONS SHALL BE MADE THROUGH PREFABRICATED PIPE PORTALS. EXTEND COPPER REFRIGERANT LINES FROM OUTDOOR UNITS TO INDOOR UNITS.

FAN SCHEDULE											
UNIT ID	UNIT TYPE	DESIGN AIRFLOW (CFM)	ESP (IN. WG)	DRIVE TYPE	RPM	MOTOR POWER (HP)	INLET SONE	VOLT	PH	BASIS OF DESIGN	REMARKS
EF-K	CEILING	100	0.25	DIRECT	700	0.01	1	120	1	GREENHECK SP-B	WALL SWITCH
EF-R	CEILING	50	0.25	DIRECT	700	0.01	1	120	1	GREENHECK SP-B	WALL SWITCH

- COORDINATE ELECTRICAL DATA WITH ELECTRICAL DRAWINGS AND COORDINATE SUBMITTED EQUIPMENT WITH ELECTRICAL SUBCONTRACTOR.
- PROVIDE CEILING RADIATION DAMPERS WHERE CEILING EXHAUST FANS PENETRATE A FIRE RATED ASSEMBLY.

DUCTLESS HEAT PUMP SCHEDULE										
UNIT ID	TYPE	FAN	EVAPORATOR COOLING COIL @ 95°F O.A.				HEATING CAPACITY (MBH)	VOLT	PH	BASIS OF DESIGN
		DESIGN AIRFLOW (CFM)	TOTAL (MBH)	SENSIBLE (MBH)	ENTERING AIR DB (°F)	WB (°F)				
DAH-101 DHP-101	WALL-MOUNTED	385	12	8	80	67	14	240	1	mitsubishi PKA/PUZ
DAH-401 DHP-401	MULTI-POSITION AIR HANDLER	875	30	21	80	67	32	240	1	mitsubishi PKA/PUZ
DAH-402 DHP-402	WALL-MOUNTED	385	12	8	80	67	14	240	1	mitsubishi PKA/PUZ

- COORDINATE ELECTRICAL DATA WITH ELECTRICAL DRAWINGS AND COORDINATE SUBMITTED EQUIPMENT WITH ELECTRICAL SUBCONTRACTOR.
- INSTALL AIR TREATMENT DEVICE FOR EACH DAH UNIT.

SPLIT SYSTEM AIR SOURCE HEAT PUMP											
UNIT ID	OUTSIDE AIRFLOW (CFM)	FAN		EVAPORATOR COOLING COOL @ 95°F O.A.				ELECTRIC HEATER (KW)	VOLT	PH	BASIS OF DESIGN
		DESIGN AIRFLOW (CFM)	ESP (IN. WG)	TOTAL (MBH)	SENSIBLE (MBH)	ENTERING AIR DB (°F)	WB (°F)				
AH-201 HP-201	100	1200	0.50	36	26	80	67	5.0	240	1	CARRIER FMA4X / 29HCE
AH-202 HP-202	120	1200	0.50	36	26	80	67	5.0	240	1	CARRIER FMA4X / 29HCE
AH-203 HP-203	80	800	0.50	24	17	80	67	5.0	240	1	CARRIER FMA4X / 29HCE
AH-204 HP-204	100	1000	0.50	30	21	80	67	5.0	240	1	CARRIER FMA4X / 29HCE
AH-301 HP-301	100	1200	0.50	36	26	80	67	5.0	240	1	CARRIER FMA4X / 29HCE
AH-302 HP-302	120	1200	0.50	36	26	80	67	5.0	240	1	CARRIER FMA4X / 29HCE
AH-303 HP-303	80	800	0.50	24	17	80	67	5.0	240	1	CARRIER FMA4X / 29HCE
AH-304 HP-304	100	1000	0.50	30	21	80	67	5.0	240	1	CARRIER FMA4X / 29HCE
AH-401 HP-401	150	800	0.50	24	17	80	67	5.0	240	1	CARRIER FMA4X / 29HCE
AH-402 HP-402	120	1200	0.50	36	26	80	67	5.0	240	1	CARRIER FMA4X / 29HCE

- COORDINATE ELECTRICAL DATA WITH ELECTRICAL DRAWINGS AND COORDINATE SUBMITTED EQUIPMENT WITH ELECTRICAL SUBCONTRACTOR.
- INSTALL AN AIR TREATMENT DEVICE(S) FOR EACH AH UNIT.

ELECTRIC HEATER SCHEDULE						
UNIT ID	TYPE	DESIGN AIRFLOW (CFM)	CAPACITY (KW)	VOLT	PH	BASIS OF DESIGN
EH-1	UNIT HEATER	350	5.0	240	1	QMARK MLH
EH-2	UNIT HEATER	350	5.0	240	1	QMARK MLH
EH-3	UNIT HEATER	350	5.0	240	1	QMARK MLH

- COORDINATE ELECTRICAL DATA WITH ELECTRICAL DRAWINGS AND COORDINATE SUBMITTED EQUIPMENT WITH ELECTRICAL SUBCONTRACTOR.

GRILLES, REGISTERS AND DIFFUSERS SCHEDULE						
ID	DESCRIPTION	NECK		INSTALLATION TYPE	MATERIAL	BASIS OF DESIGN
		WIDTH	HEIGHT			
RG1	LOUVERED FILTER GRILLE	12"	12"	SURFACE MOUNT INSTALLATION	ALUMINUM	TITUS 350FSF
RG1	LOUVERED FILTER GRILLE	24"	6"	SURFACE MOUNT INSTALLATION	ALUMINUM	TITUS 350FSF
RG2	LOUVERED GRILLE	10"	6"	SURFACE MOUNT INSTALLATION	ALUMINUM	TITUS 350FL
RG2	LOUVERED GRILLE	12"	12"	SURFACE MOUNT INSTALLATION	ALUMINUM	TITUS 350FL
RG2	LOUVERED GRILLE	14"	6"	SURFACE MOUNT INSTALLATION	ALUMINUM	TITUS 350FL
SG1	ALUMINUM STRAIGHT BLADE, VERTICAL FIN REGISTER	6"	6"	SURFACE MOUNT INSTALLATION	ALUMINUM	HART & COOLEY A618
SG1	ALUMINUM STRAIGHT BLADE, VERTICAL FIN REGISTER	10"	6"	SURFACE MOUNT INSTALLATION	ALUMINUM	HART & COOLEY A618
SG1	ALUMINUM STRAIGHT BLADE, VERTICAL FIN REGISTER	12"	6"	SURFACE MOUNT INSTALLATION	ALUMINUM	HART & COOLEY A618

- PROVIDE CEILING RADIATION DAMPERS WHERE REGISTERS AND GRILLES PENETRATE A FIRE RATED ASSEMBLY.
- ARCHITECT SHALL SELECT FINISH AND PAINT COLOR.

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ROOF TOP ADDITION

AT

408 MARTIN LUTHER KING JR. BLVD.

HVAC SCHEDULES & SPECIFICATIONS

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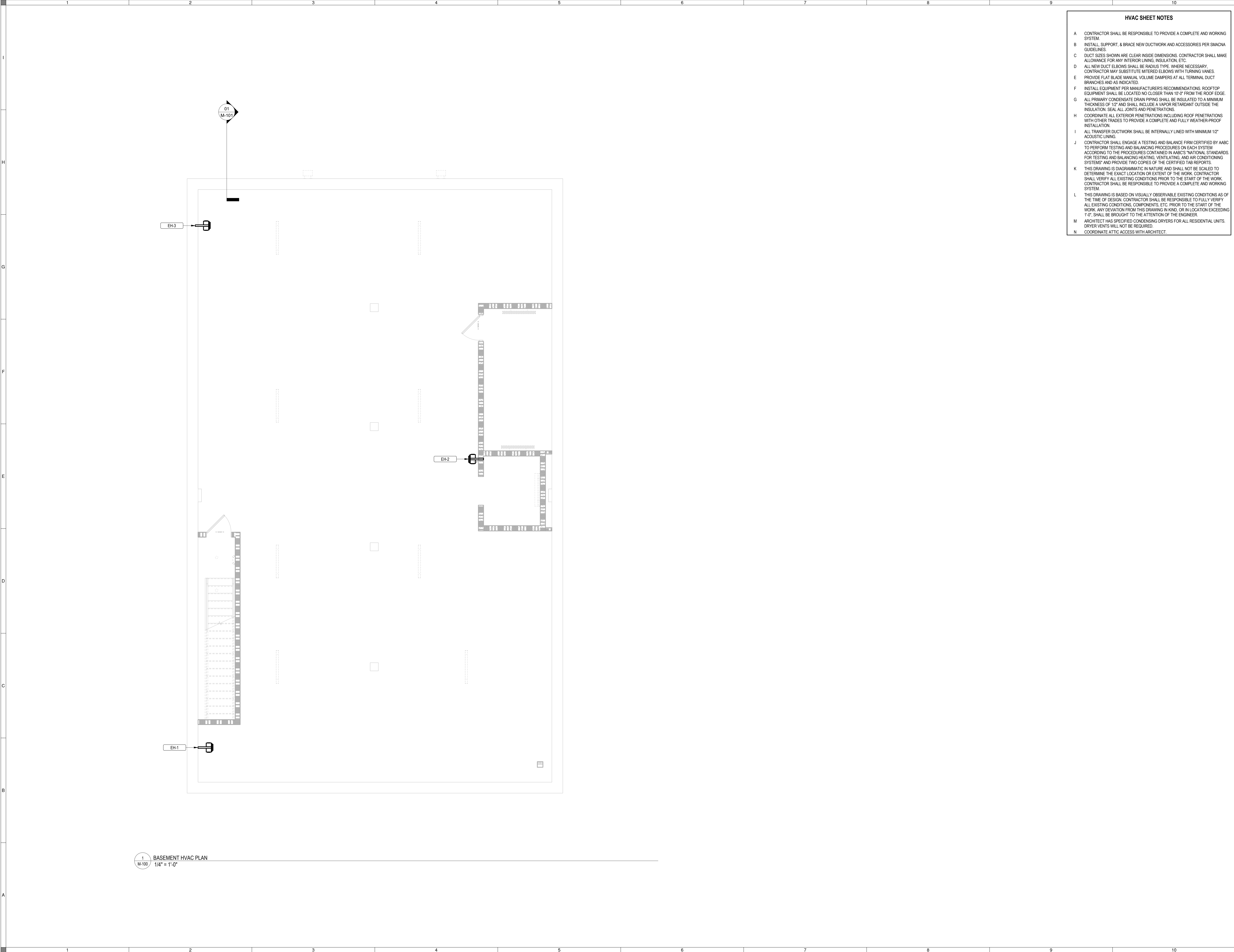
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1 BASEMENT HVAC PLAN
M-100 1/4" = 1'-0"

HVAC SHEET NOTES

- A CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE A COMPLETE AND WORKING SYSTEM.
- B INSTALL, SUPPORT, & BRACE NEW DUCTWORK AND ACCESSORIES PER SMACNA GUIDELINES.
- C DUCT SIZES SHOWN ARE CLEAR INSIDE DIMENSIONS. CONTRACTOR SHALL MAKE ALLOWANCE FOR ANY INTERIOR LINING, INSULATION, ETC.
- D ALL NEW DUCT ELBOWS SHALL BE RADIUS TYPE. WHERE NECESSARY, CONTRACTOR MAY SUBSTITUTE MITERED ELBOWS WITH TURNING VANES.
- E PROVIDE FLAT BLADE MANUAL VOLUME DAMPERS AT ALL TERMINAL DUCT BRANCHES AND AS INDICATED.
- F INSTALL EQUIPMENT PER MANUFACTURER'S RECOMMENDATIONS. ROOFTOP EQUIPMENT SHALL BE LOCATED NO CLOSER THAN 10'-0" FROM THE ROOF EDGE.
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ROOF TOP ADDITION

AT

408 MARTIN LUTHER KING JR. BLVD.

BASEMENT HVAC PLAN

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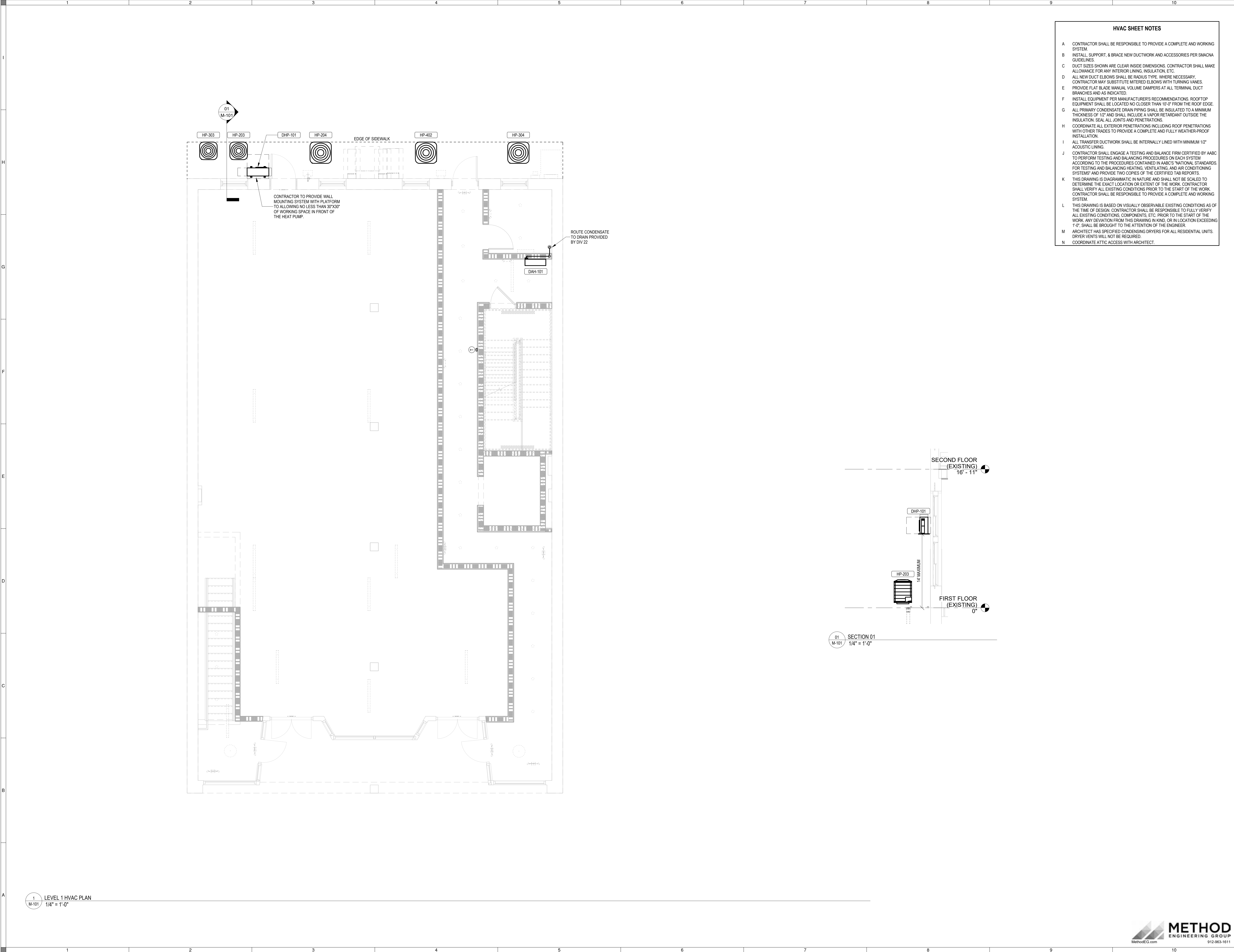
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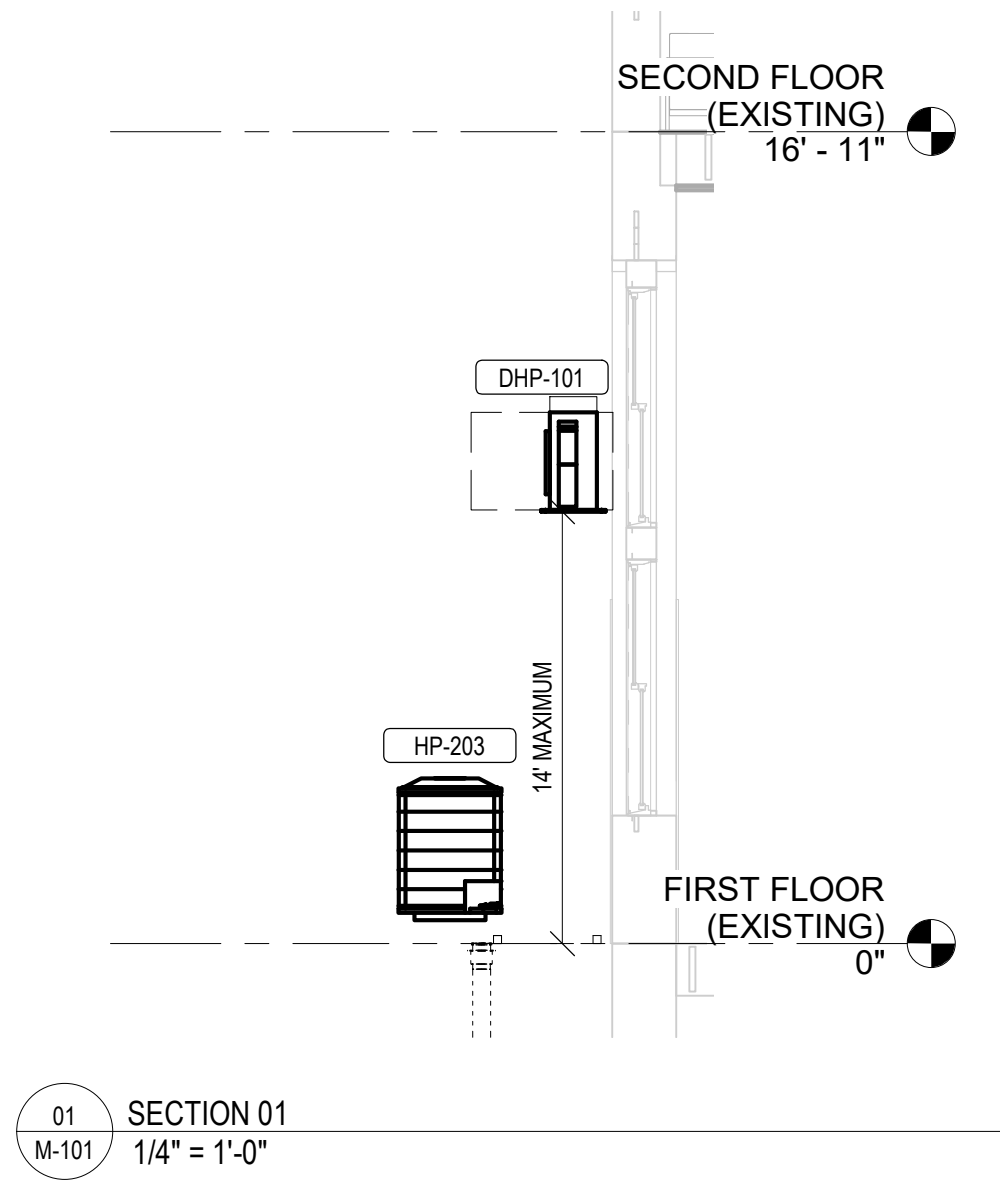
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M-100



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1 LEVEL 1 HVAC PLAN
1/4" = 1'-0"



ROOF TOP ADDITION
AT
408 MARTIN LUTHER KING JR. BLVD.
FIRST FLOOR HVAC PLAN

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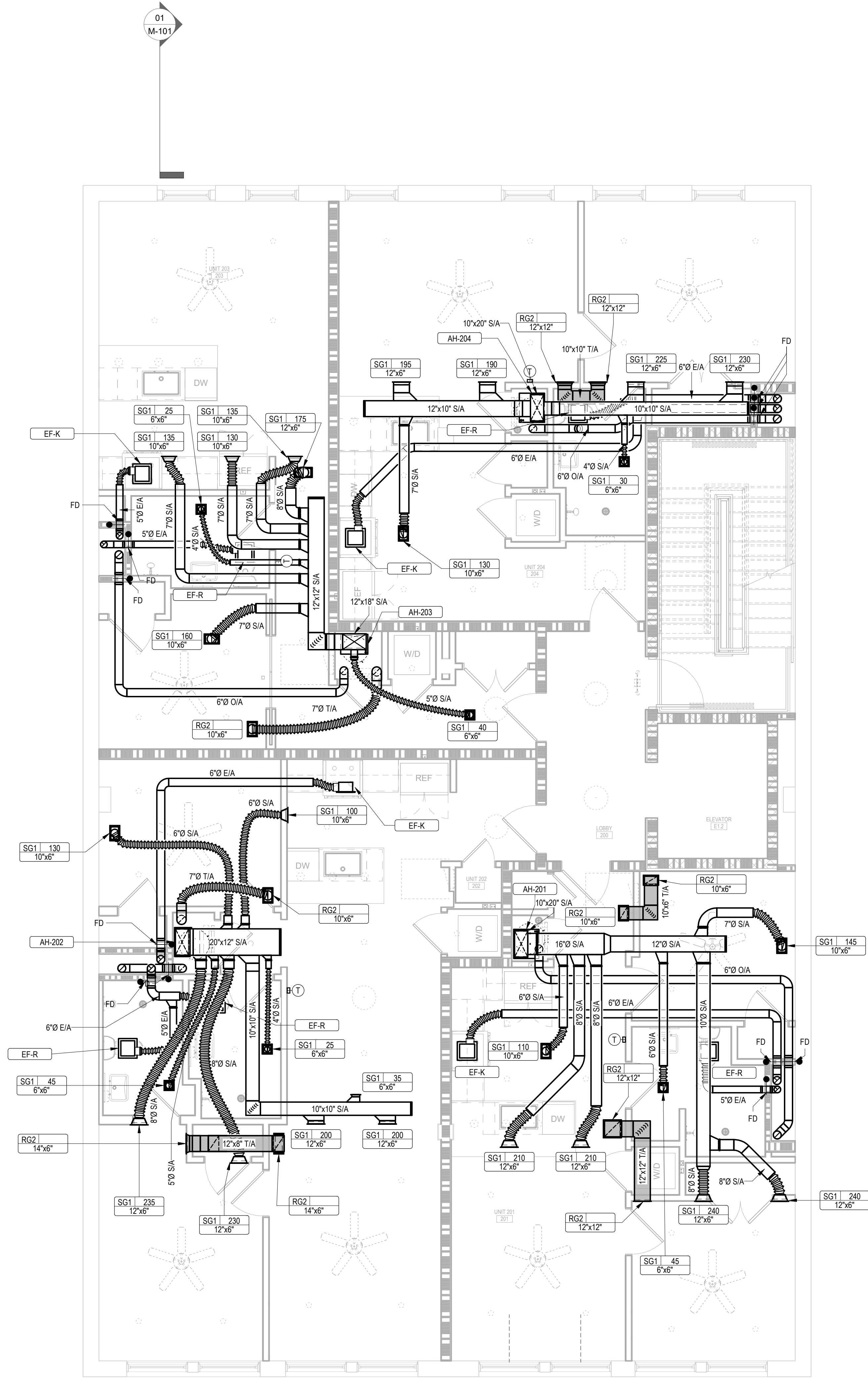
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M-101



HVAC SHEET NOTES

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ROOF TOP ADDITION

AT

408 MARTIN LUTHER KING JR. BLVD.

SECOND FLOOR HVAC PLAN

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HVAC SHEET NOTES

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ROOF TOP ADDITION
AT

408 MARTIN LUTHER KING JR. BLVD.

THIRD FLOOR HVAC PLAN

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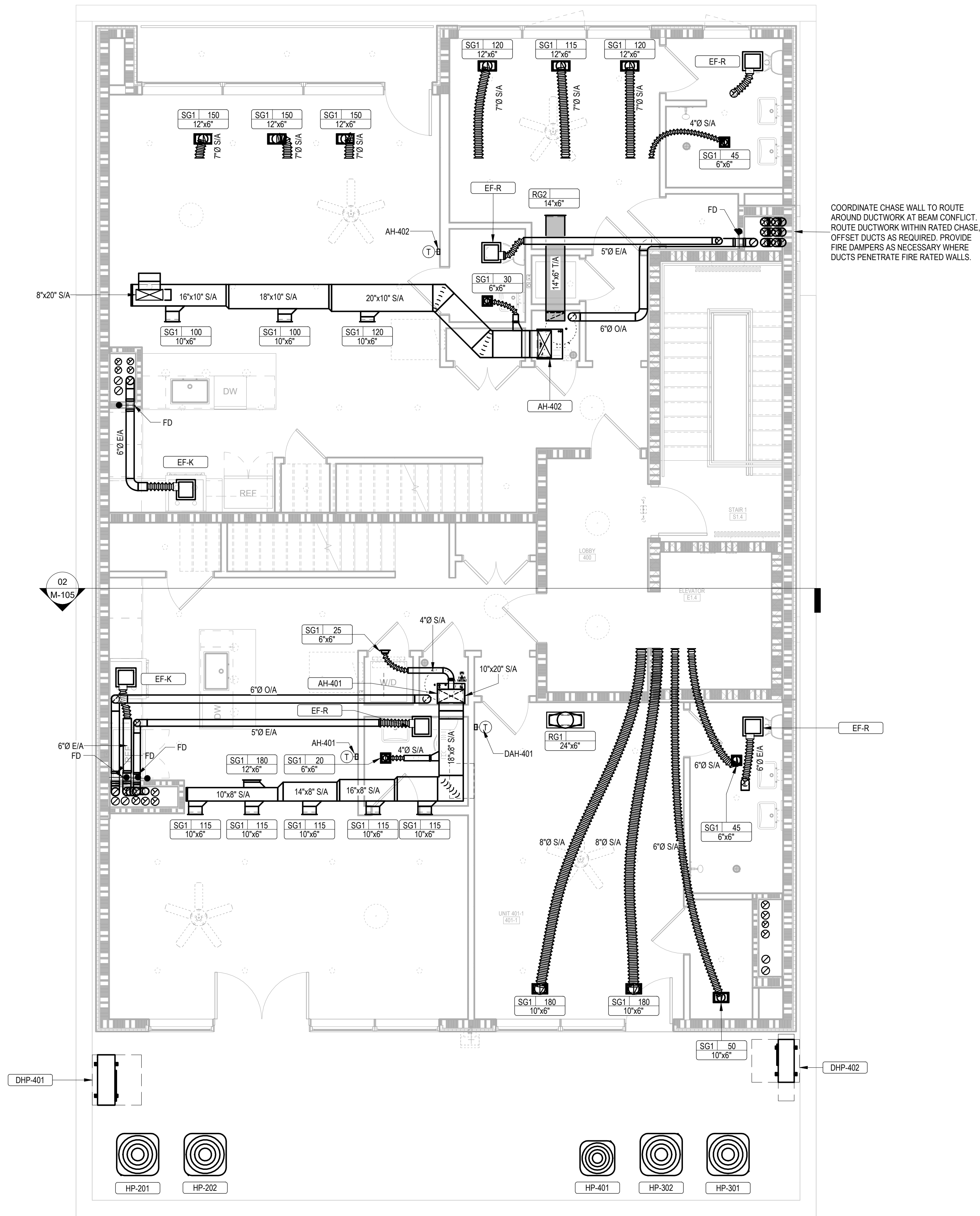
COORDINATE CHASE WALL TO ROUTE
AROUND DUCTWORK AT BEAM CONFLICT.
ROUTE DUCTWORK WITHIN RATED CHASE.
OFFSET DUCTS AS REQUIRED. PROVIDE
FIRE DAMPERS AS NECESSARY WHERE
DUCTS PENETRATE FIRE RATED WALLS.

COORDINATE CHASE WALL TO ROUTE
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ROUTE DUCTWORK WITHIN RATED CHASE.
OFFSET DUCTS AS REQUIRED. PROVIDE
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HVAC SHEET NOTES

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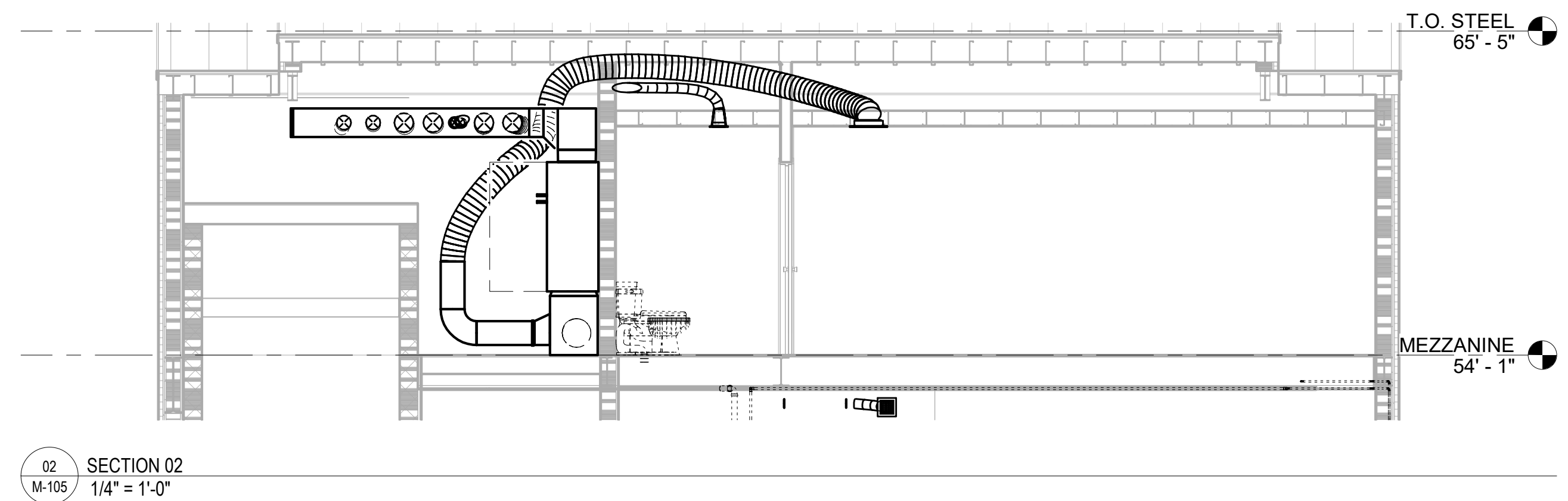
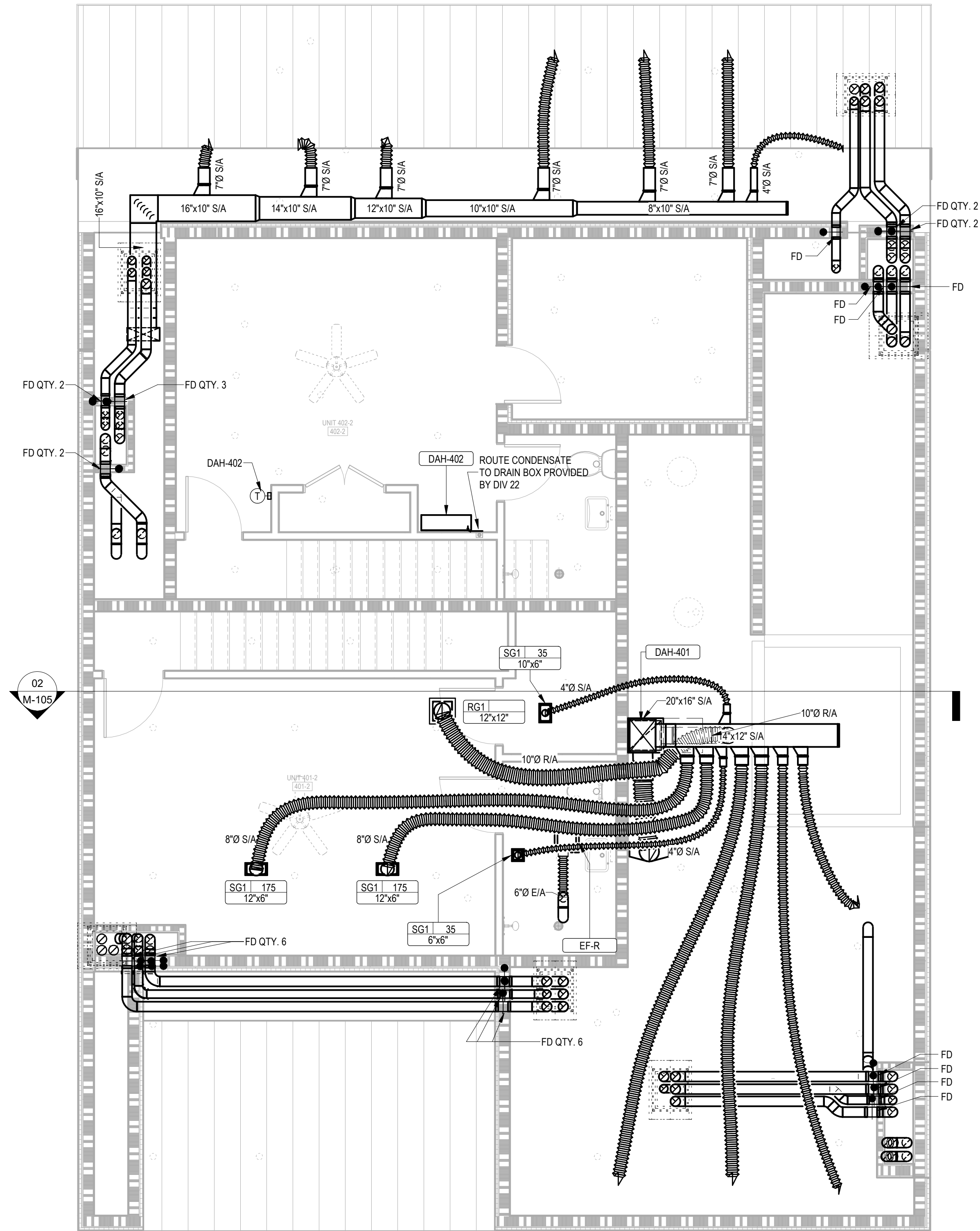


REVISIONS

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- C DUCT SIZES SHOWN ARE CLEAR INSIDE DIMENSIONS. CONTRACTOR SHALL MAKE ALLOWANCE FOR ANY INTERIOR LINING, INSULATION, ETC.
- D ALL NEW DUCT ELBOWS SHALL BE RADIUS TYPE, WHERE NECESSARY.
- E CONTRACTOR SHALL SUBSTITUTE EQUIVALENT MATERIALS IF THE ORIGINALS ARE UNAVAILABLE.
- F PROVIDE FLAT MADE MANUAL VOLUME DAMPERS AT ALL TERMINAL DUCT BRANCHES AND AS INDICATED.
- G INSTALL EQUIPMENT PER MANUFACTURER'S RECOMMENDATIONS. ROOFTOP EQUIPMENT SHALL BE LOCATED NO CLOSER THAN 10' 0" FROM THE ROOF EDGE.
- H ALL PRIMARY CONDENSATE DRAIN PIPING SHALL BE INSULATED TO A MINIMUM THICKNESS OF 1/2" AND SHALL INCLUDE A VAPOR RETARDANT OUTSIDE THE INSULATION. SEAL ALL JOINTS AND PENETRATIONS.
- I COORDINATE ALL EXTERIOR PENETRATIONS THROUGH ROOF PENETRATIONS WITH OTHER TRADES TO PROVIDE A COMPLETE AND FULLY WEATHER PROOF INSTALLATION.
- J ALL TRANSFER DUCTWORK SHALL BE INTERNALLY LINED WITH MINIMUM 1/2" ACOUSTIC LINING.
- K CONTRACTOR SHALL ENGAGE A TESTING AND BALANCING FIRM CERTIFIED BY ASHRAE TO PERFORM TESTING AND BALANCING PROCEDURES ON EACH SYSTEM.
- L ACCORDING TO THE PROCEEDINGS OF THE ASHRAE 90.1 NATIONAL STANDARDS FOR TESTING AND BALANCING HEATING, VENTILATING, AND AIR CONDITIONING SYSTEMS AND PROVIDE TWO COPIES OF THE CERTIFIED TAB REPORTS.
- M THIS DRAWING IS DIAGRAMMATIC IN NATURE AND SHALL NOT BE USED TO DETERMINE THE EXACT LOCATION OR EXTENT OF THE WORK. CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS PRIOR TO THE START OF THE WORK. CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE A COMPLETE AND WORKING SYSTEM.
- N THIS DRAWING IS BASED ON VISUALLY OBSERVABLE EXISTING CONDITIONS AS OF THE TIME OF DESIGN. CONTRACTOR SHALL BE RESPONSIBLE TO FULLY VERIFY ALL EXISTING CONDITIONS AND PROVIDE THE CORRECT START OF THE WORK. ANY DEVIATION FROM THE DRAWING IN KIND, OR IN LOCATION EXCEEDING 1/4" SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER.
- O ARCHITECT HAS SPECIFIED COORDINATING DRYERS FOR ALL RESIDENTIAL UNITS. DRYER VENTS WILL NOT BE REQUIRED.
- N COORDINATE ATTIC ACCESS WITH ARCHITECT.



02 SECTION 02
M-105 1/4" = 1'-0"

ROOF TOP ADDITION
AT
408 MARTIN LUTHER KING JR. BLVD.
MEZZANINE HVAC PLAN

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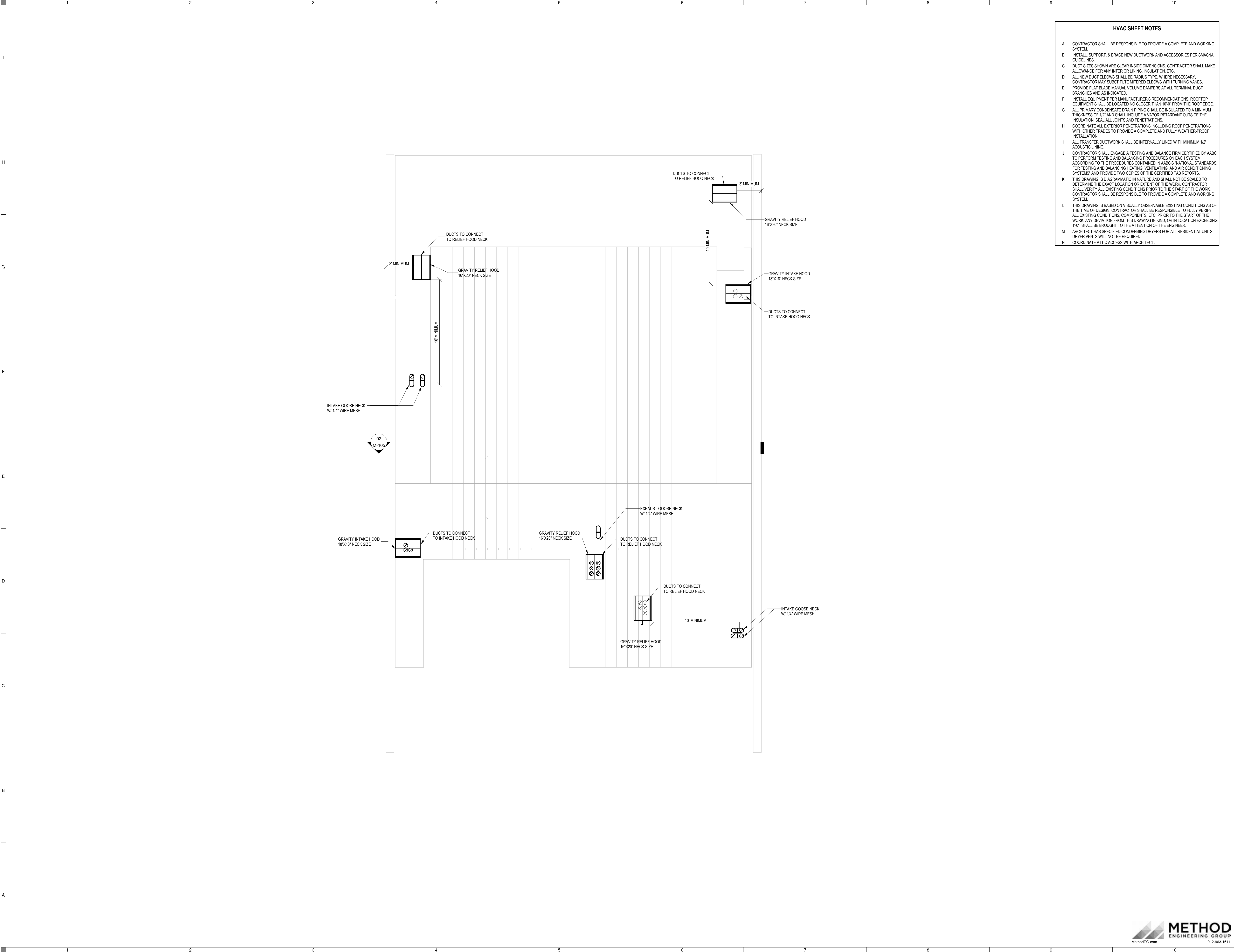
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RENT DRAWING STATUS
CONSTRUCTION
DOCUMENT



- HVAC SHEET NOTES**
- A CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE A COMPLETE AND WORKING SYSTEM.
 - B INSTALL, SUPPORT, & BRACE NEW DUCTWORK AND ACCESSORIES PER SMACNA GUIDELINES.
 - C DUCT SIZES SHOWN ARE CLEAR INSIDE DIMENSIONS. CONTRACTOR SHALL MAKE ALLOWANCE FOR ANY INTERIOR LINING, INSULATION, ETC.
 - D ALL NEW DUCT ELBOWS SHALL BE RADIUS TYPE. WHERE NECESSARY, CONTRACTOR MAY SUBSTITUTE MITERED ELBOWS WITH TURNING VANES.
 - E PROVIDE FLAT BLADE MANUAL VOLUME DAMPERS AT ALL TERMINAL DUCT BRANCHES AND AS INDICATED.
 - F INSTALL EQUIPMENT PER MANUFACTURER'S RECOMMENDATIONS. ROOFTOP EQUIPMENT SHALL BE LOCATED NO CLOSER THAN 10'-0" FROM THE ROOF EDGE.
 - G ALL PRIMARY CONDENSATE DRAIN PIPING SHALL BE INSULATED TO A MINIMUM THICKNESS OF 1/2" AND SHALL INCLUDE A VAPOR RETARDANT OUTSIDE THE INSULATION. SEAL ALL JOINTS AND PENETRATIONS.
 - H COORDINATE ALL EXTERIOR PENETRATIONS INCLUDING ROOF PENETRATIONS WITH OTHER TRADES TO PROVIDE A COMPLETE AND FULLY WEATHER-PROOF INSTALLATION.
 - I ALL TRANSFER DUCTWORK SHALL BE INTERNALLY LINED WITH MINIMUM 1/2" ACOUSTIC LINING.
 - J CONTRACTOR SHALL ENGAGE A TESTING AND BALANCE FIRM CERTIFIED BY AABC TO PERFORM TESTING AND BALANCING PROCEDURES ON EACH SYSTEM ACCORDING TO THE PROCEDURES CONTAINED IN AABC'S NATIONAL STANDARDS FOR TESTING AND BALANCING HEATING, VENTILATING, AND AIR CONDITIONING SYSTEMS' AND PROVIDE TWO COPIES OF THE CERTIFIED TAB REPORTS.
 - K THIS DRAWING IS DIAGRAMMATIC IN NATURE AND SHALL NOT BE SCALED TO DETERMINE THE EXACT LOCATION OR EXTENT OF THE WORK. CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS PRIOR TO THE START OF THE WORK. CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE A COMPLETE AND WORKING SYSTEM.
 - L THIS DRAWING IS BASED ON VISUALLY OBSERVABLE EXISTING CONDITIONS AS OF THE TIME OF DESIGN. CONTRACTOR SHALL BE RESPONSIBLE TO FULLY VERIFY ALL EXISTING CONDITIONS, COMPONENTS, ETC. PRIOR TO THE START OF THE WORK. ANY DEVIATION FROM THIS DRAWING IN KIND, OR IN LOCATION EXCEEDING 1'-0", SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER.
 - M ARCHITECT HAS SPECIFIED CONDENSING DRYERS FOR ALL RESIDENTIAL UNITS. DRYER VENTS WILL NOT BE REQUIRED.
 - N COORDINATE ATTIC ACCESS WITH ARCHITECT.

ROOF TOP ADDITION

AT

408 MARTIN LUTHER KING JR. BLVD.

ROOF HVAC PLAN

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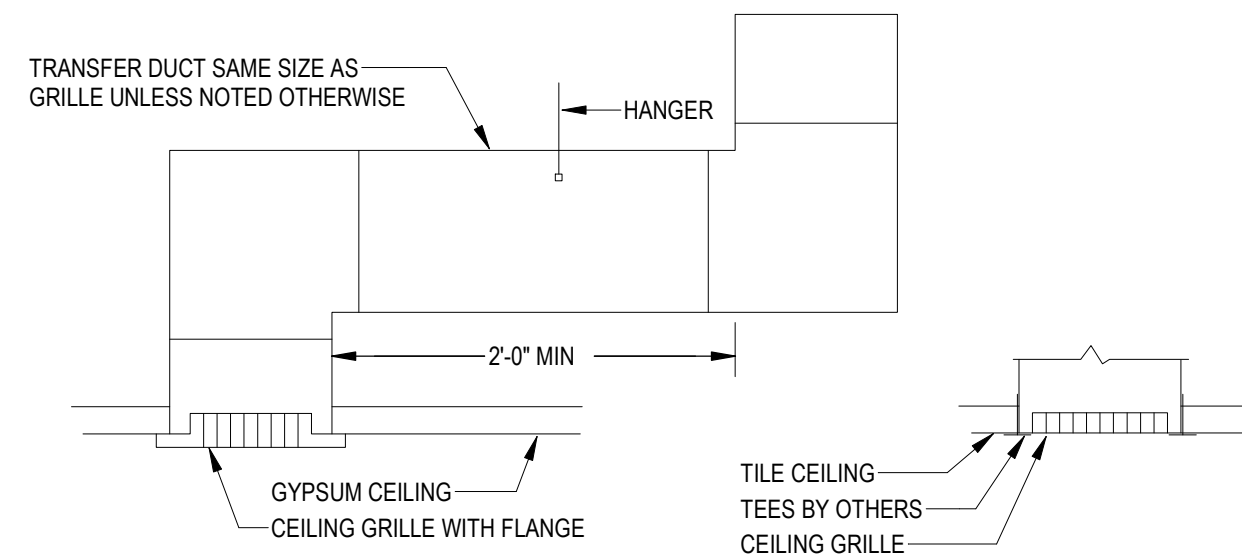
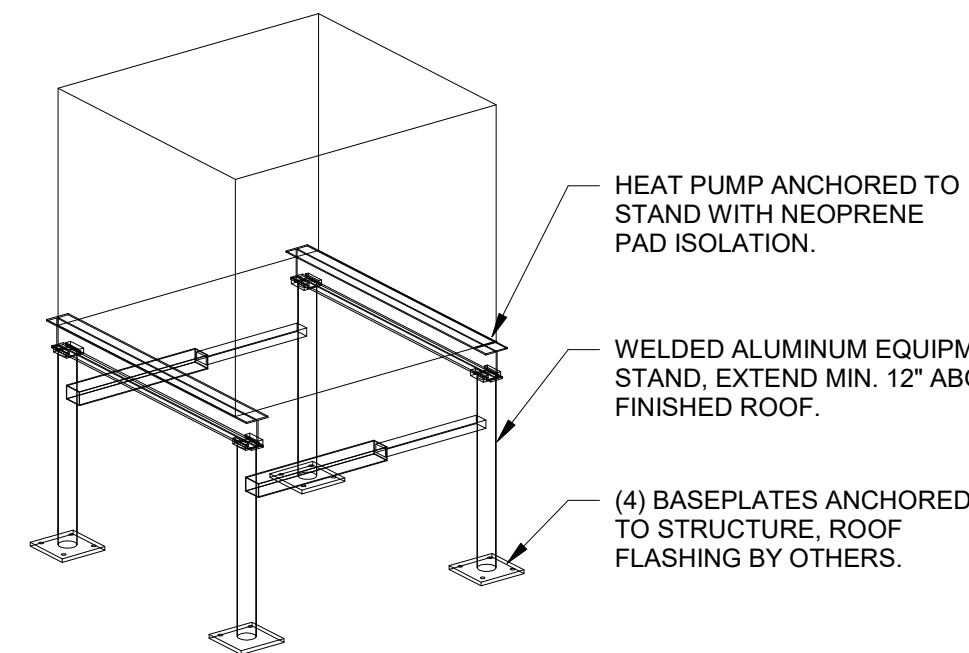
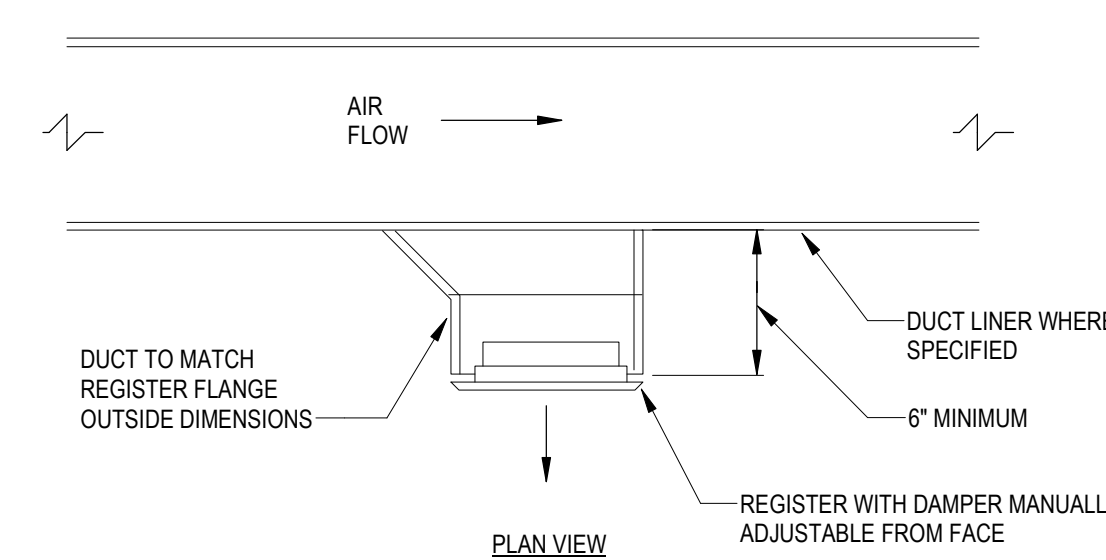
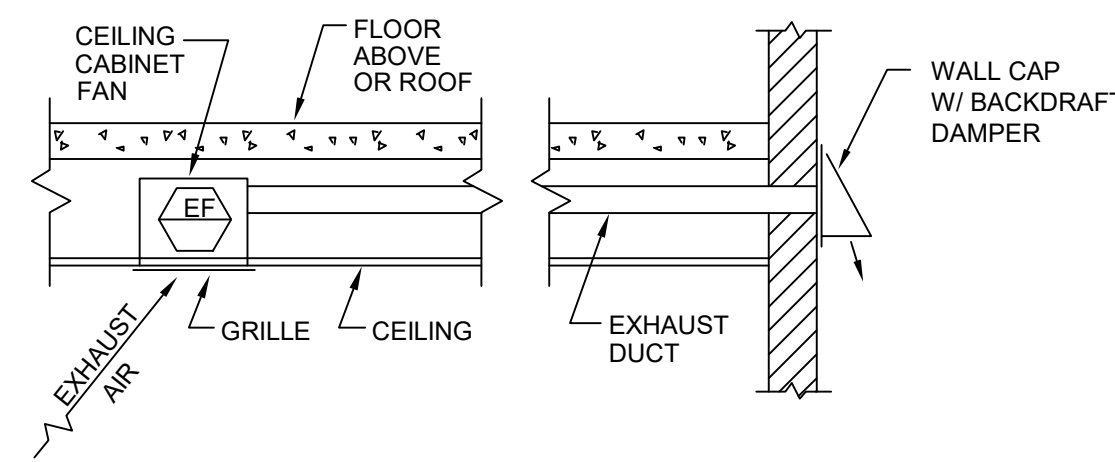
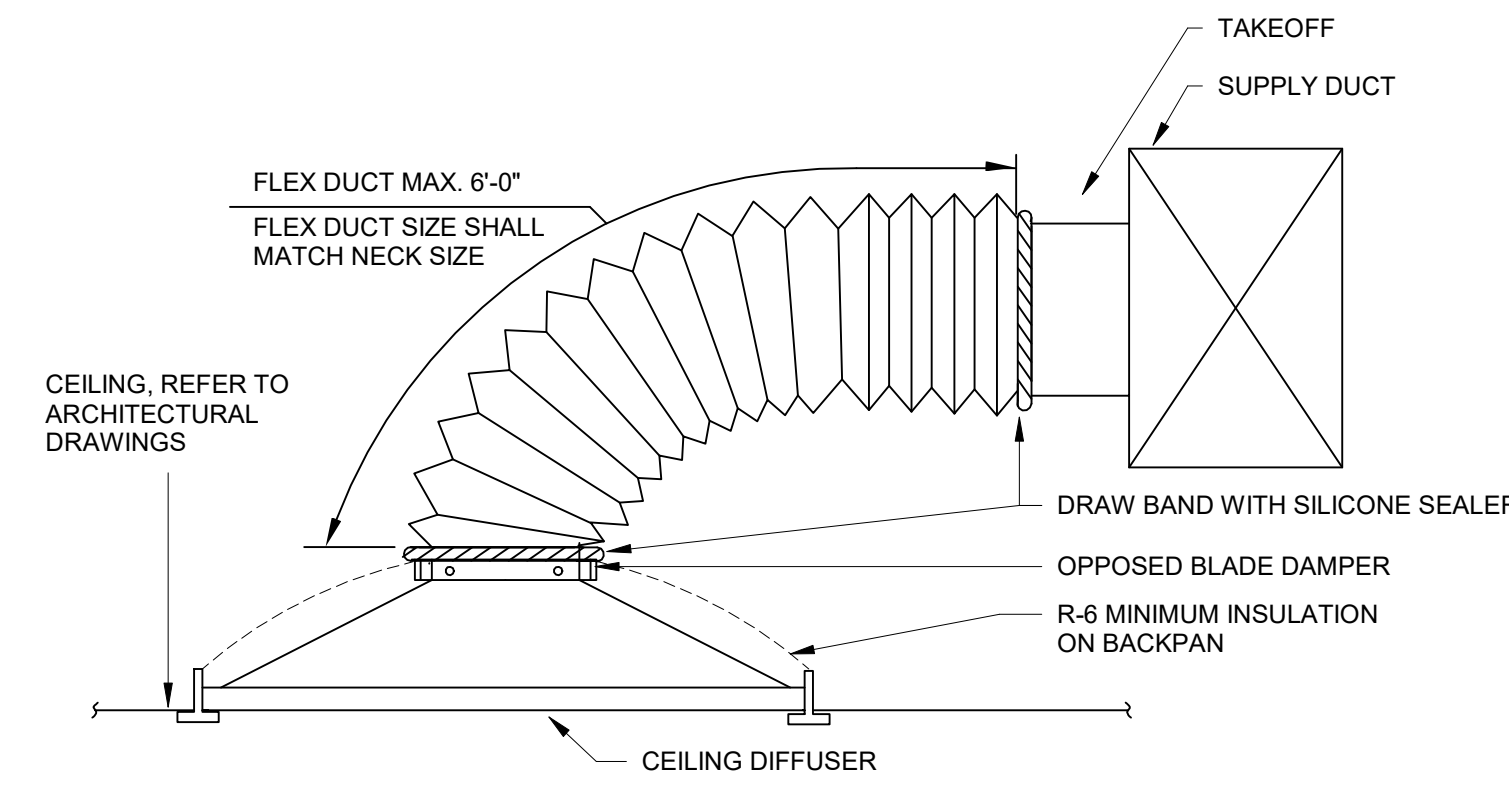
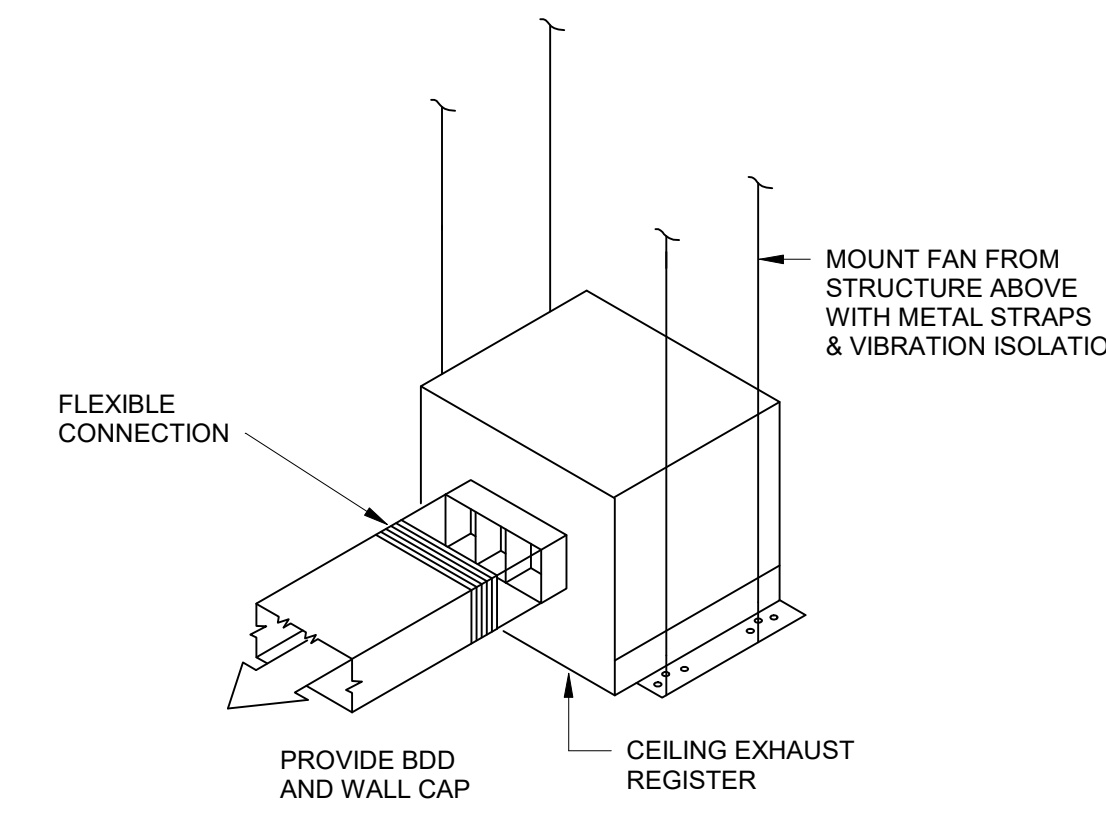
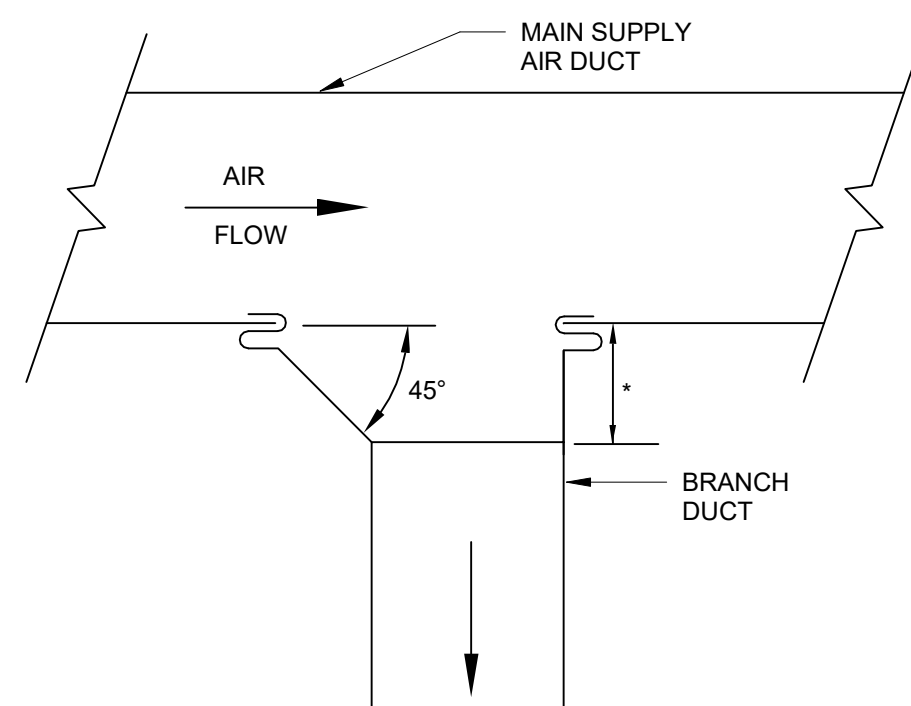
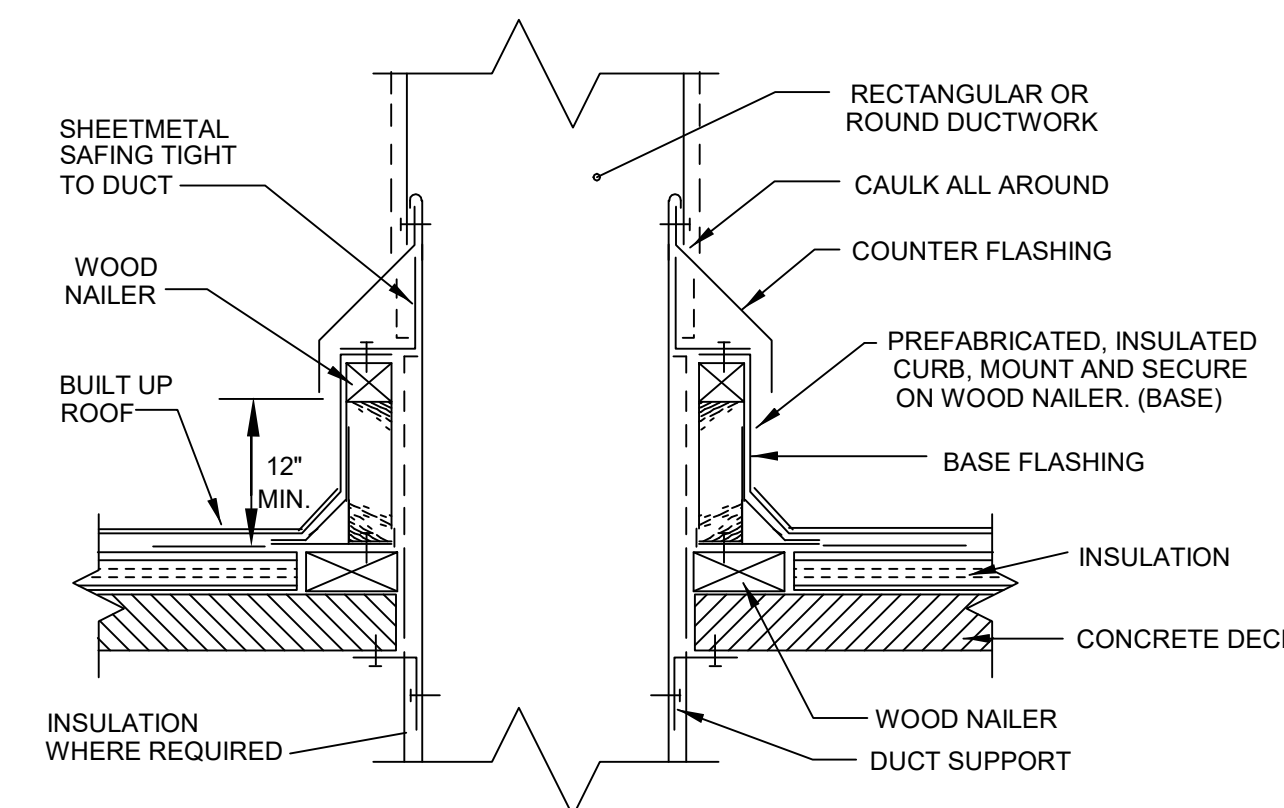
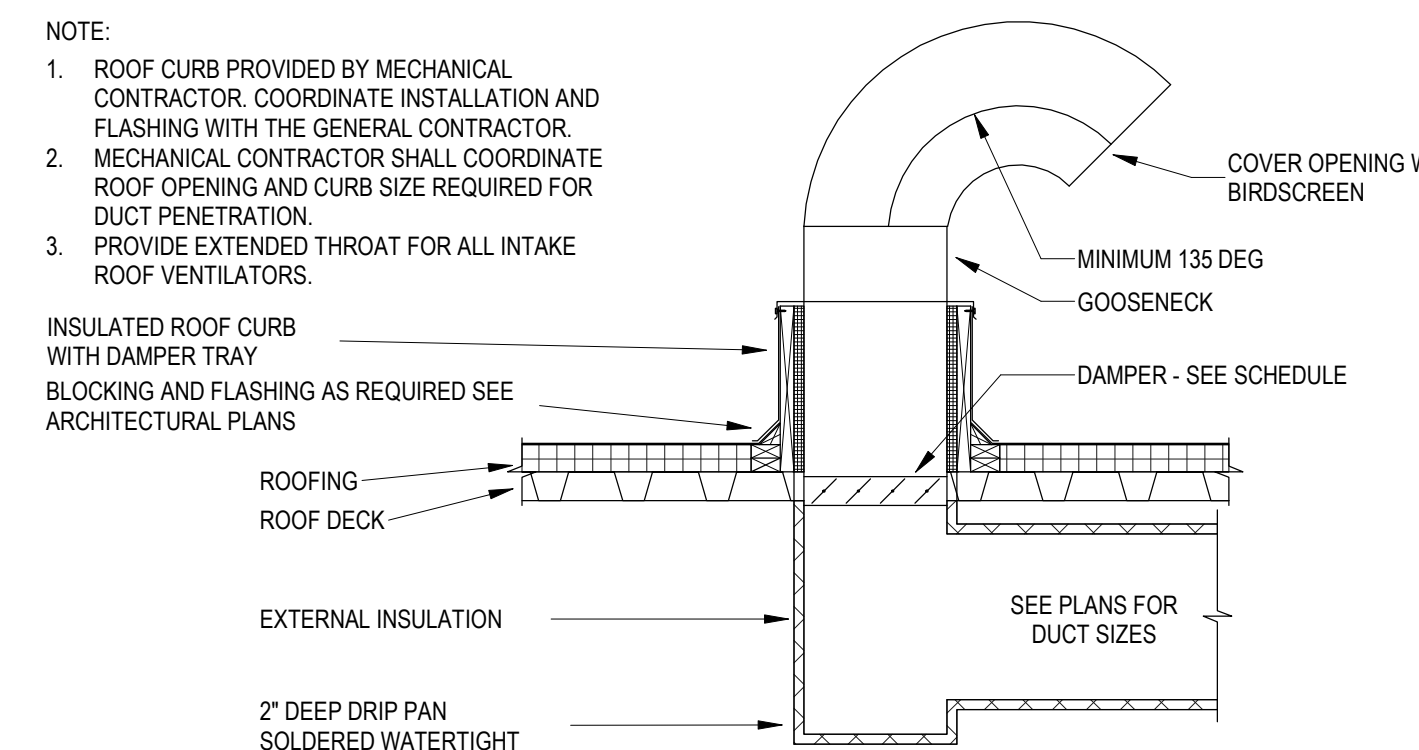
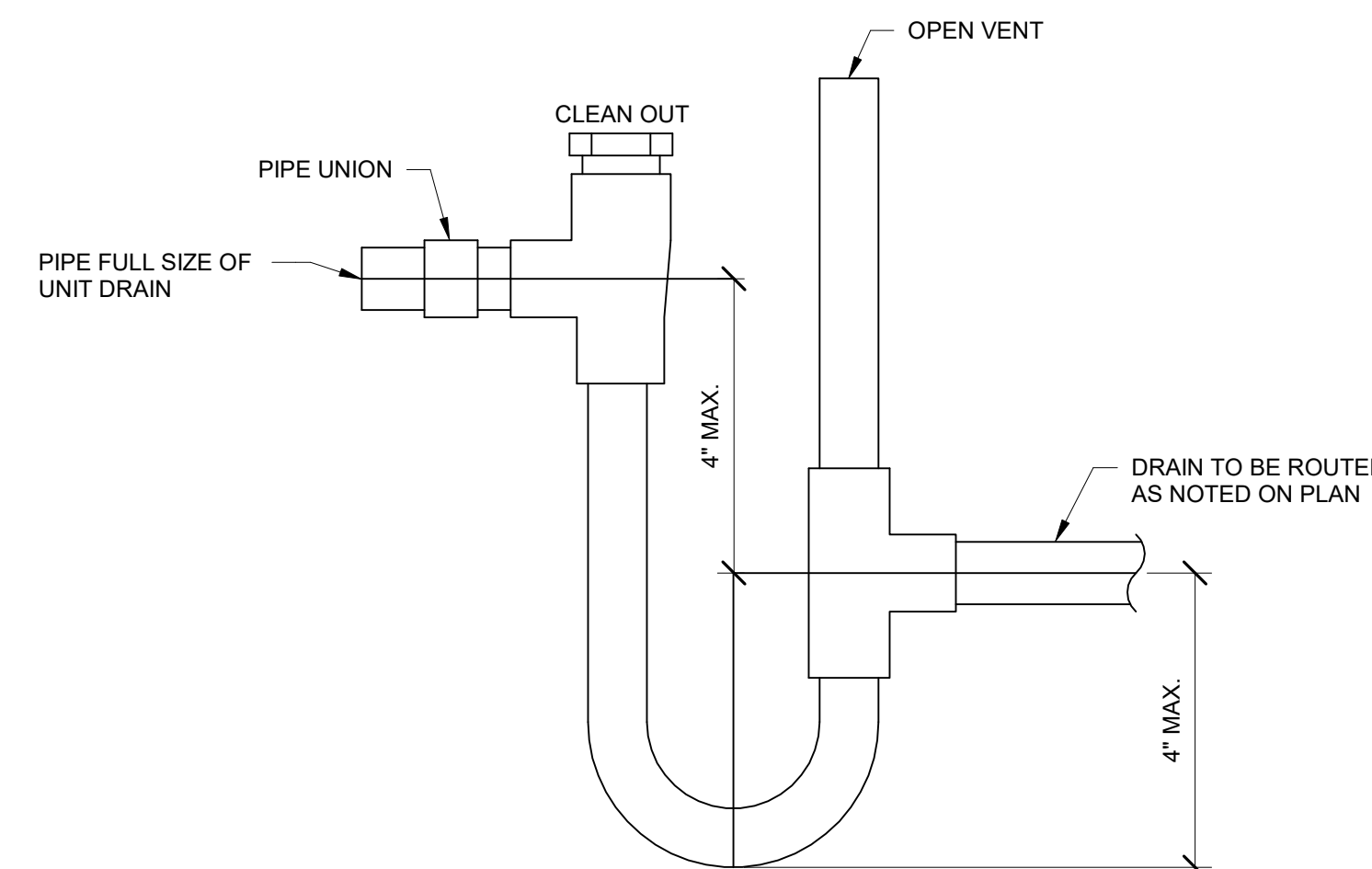
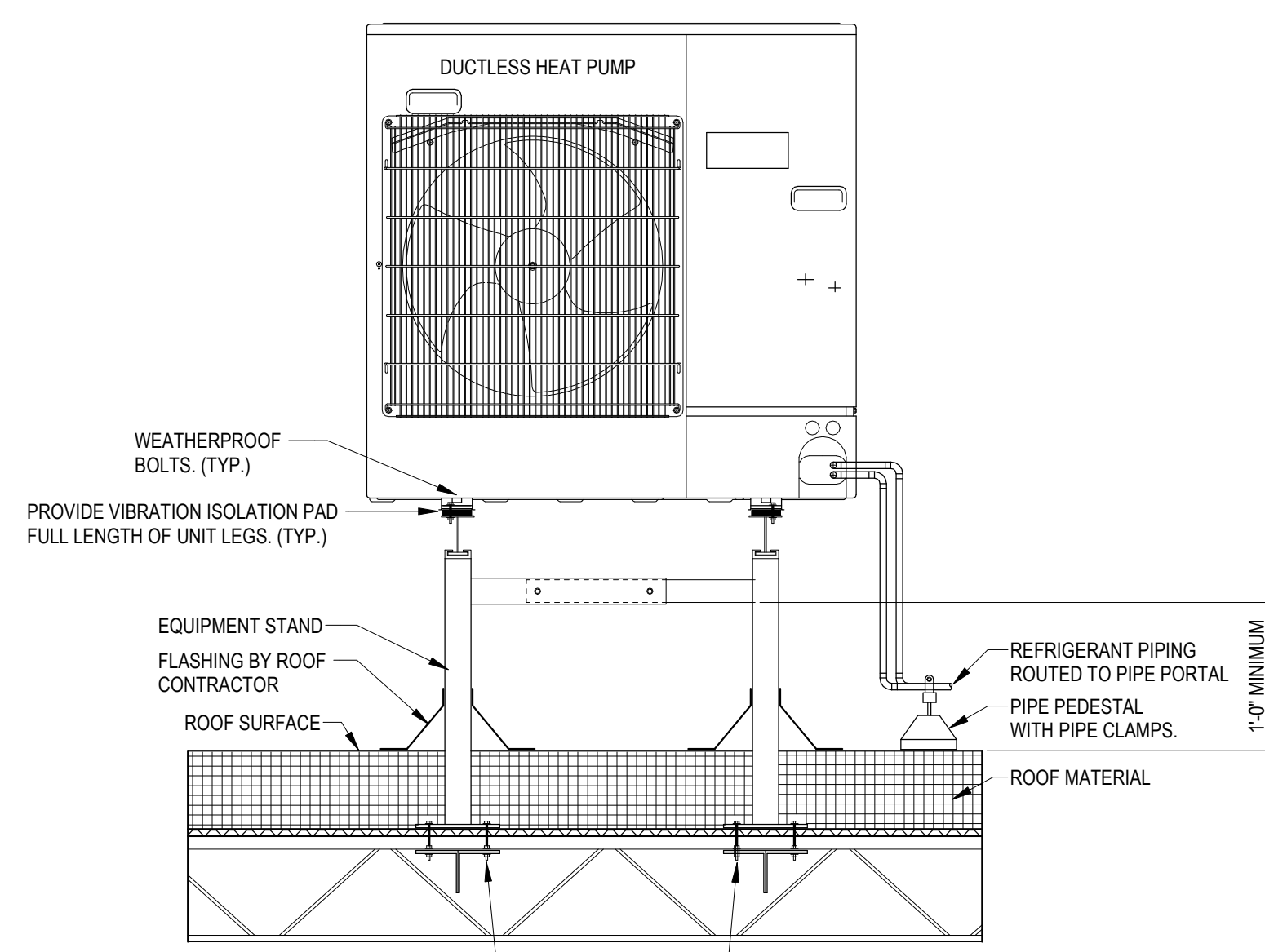
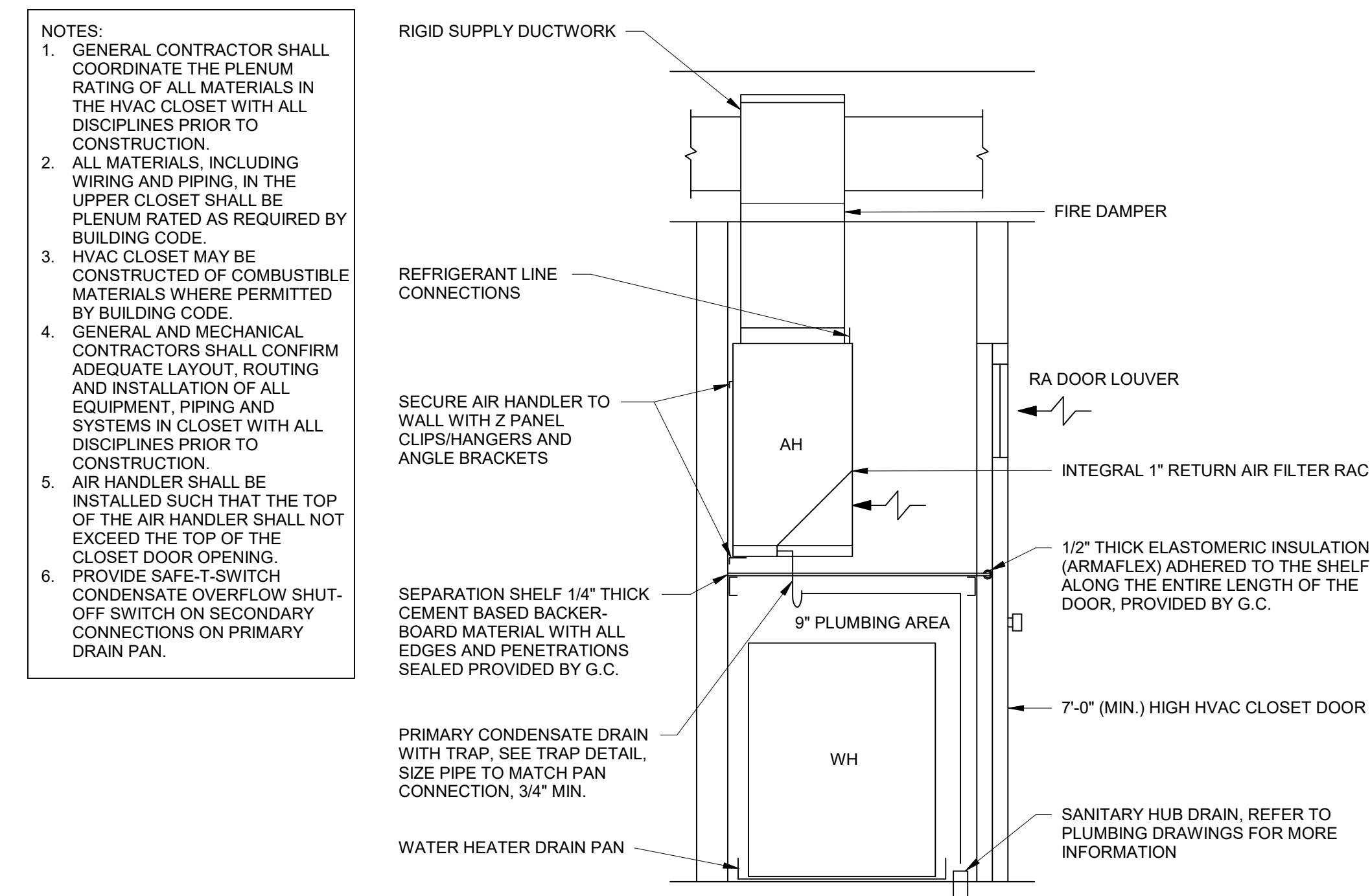
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CURRENT DRAWING STATUS
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01 TRANSFER DUCT DETAIL I
M-301 NO SCALE02 HEAT PUMP EQUIPMENT STAND DETAIL
M-301 NOT TO SCALE03 TYPICAL DUCT MOUNTED REGISTER (RECTANGULAR DUCT)
M-301 1/4" = 1'-0"04 BATHROOM EXHAUST FAN DETAIL - SIDEWALL DISCHARGE
M-301 NOT TO SCALE05 TYPICAL DIFFUSER CONNECTION (SIDE)
M-301 NOT TO SCALE06 CEILING EXHAUST FAN DETAIL
M-301 NOT TO SCALE*EQUALS WIDTH OF BRANCH DUCT UP TO 12".
12" FOR ALL BRANCH DUCTS LARGER THAN 12".07 DUCT TAKE-OFF DETAIL
M-301 NOT TO SCALE08 DUCT PENETRATION THROUGH ROOF
M-301 NOT TO SCALE09 GOOSENECK DETAIL - INTAKE OR EXHAUST
M-301 NO SCALENOTES:
1. PIPING SHALL MAINTAIN A MINIMUM SLOPE OF 1/8" PER FOOT
IN THE DIRECTION OF DISCHARGE.
2. LOCATE TRAPS SO AS TO BE ACCESSIBLE FOR CLEANING.10 CONDENSATE DRAIN DETAIL 2
M-301 NOT TO SCALENOTES:
1. EQUIPMENT STAND SHALL EXTEND A MINIMUM OF 12" ABOVE THE FINISHED ROOF SURFACE.
2. EQUIPMENT STAND SHALL BE ALL ALUMINUM TYPE AND DESIGNED TO MEET THE SPECIFIED WIND
LOAD REQUIREMENTS.
3. MOUNT AND SECURE UNIT ON ALUMINUM EQUIPMENT STAND WITH WEATHERPROOF BOLTS.
4. PROVIDE SERVICE SHUTOFF VALVES AT REFRIGERANT PIPE CONNECTIONS.
5. EXPOSED REFRIGERANT PIPING SHALL HAVE WEATHERPROOF INSULATION AND METAL JACKETING.11 DUCTLESS HEAT PUMP DETAIL
M-301 NOT TO SCALE12 DWELLING UNIT VERTICAL AH DETAIL
M-301 NOT TO SCALE

ROOF TOP ADDITION

AT

408 MARTIN LUTHER KING JR. BLVD.

HVAC DETAILS

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CONSTRUCTION
DOCUMENT

M-301

ELECTRICAL SPECIFICATIONS

1. GENERAL:
- A. PROVIDE ALL LABOR, MATERIALS, AND EQUIPMENT TO COMPLETE ALL WORK OF THIS SECTION, ALL MATERIALS AND EQUIPMENT, INCLUDING ALL COMPONENTS THEREOF, SHALL BE NEW, UN Damaged AND FREE FROM ANY DEFECTS AND SHALL BE UL LISTED.
- B. ALL WORK IS TO BE PERFORMED IN STRICT COMPLIANCE WITH THE NATIONAL ELECTRIC CODE (NEC 2020 EDITION), STATE LAWS AND ALL OTHER REGULATIONS GOVERNING WORK OF THIS NATURE.
- C. THE CONTRACTOR IS RESPONSIBLE FOR ALL WORK, MATERIAL, AND LABOR TO SATISFY A COMPLETE AND WORKING SYSTEM WHETHER SPECIFIED OR IMPLIED.
- D. ALL ELECTRICAL, JUNCTION BOXES, PANELBOARDS, CABLING, RECEPTACLES SHALL BE LABELED WITH PANEL AND CIRCUIT NUMBER.
- E. THE CONTRACTOR SHALL GIVE ALL NOTICES, OBTAIN ALL PERMITS AND PAY ALL GOVERNMENT TAXES, FEES, DEPOSITS AND OTHER COSTS IN CONNECTION WITH HIS WORK, FILE ALL NECESSARY PLANS, PREPARE ALL DOCUMENTS AND OBTAIN NECESSARY APPROVALS OF ALL AGENCIES HAVING JURISDICTION, OBTAIN ALL REQUIRED CERTIFICATES OF INSPECTION AND APPROVALS FOR WORK.
- F. STORE MATERIALS AND EQUIPMENT ON PREMISES WHERE DIRECTED BY THE OWNER.
- G. THE CONTRACTOR SHALL COOPERATE TO THE FULLEST WITH ALL OTHER TRADES. THE CONTRACTOR SHALL PLAN HIS WORK IN SUCH A WAY, AND FURNISH ALL NECESSARY EQUIPMENT AND INFORMATION TO THE OTHER TRADES SO AS NOT TO DELAY OR HINDER ANY OTHER TRADE OR HINDER THE PROGRESS OF WORK.
- H. ANY CONTRADICTIONS BETWEEN THE WRITTEN SPECIFICATIONS AND DRAWINGS SHALL BE CONSIDERED AMBIGUOUS, AND WILL BE THE RESPONSIBILITY OF THE BIDDER TO SECURE CLARIFICATION PRIOR TO BIDDING.
- I. SUBMITTALS
- a. SUBMIT MANUFACTURERS TECHNICAL, PRODUCT DATA AND LITERATURE FOR ALL MATERIALS SPECIFIED HEREIN, INDICATE AND HIGHLIGHT ON THE SUBMITTALS DETAILS OF ALL ITEMS TO INDICATE CORRECT INTERPRETATION OF THE CONTRACT DOCUMENTS.
- b. SUBMITTALS SHALL BE SUBMITTED VIA ELECTRONIC FORMAT (PDF).

2. PRODUCTS:
- A. ALL MATERIALS SHALL CONFORM TO U.L. & NEMA REQUIREMENTS AND SHALL BE AS SPECIFIED OR "PRIOR APPROVED EQUAL" BY THE ENGINEER.
- B. RACEWAY SYSTEM
- a. ALL CONDUITS AND RACEWAYS SHALL BE INSTALLED CONCEALED IN FINISHED SPACES. CONCEALED CONDUITS SHALL BE EMT, IMC OR RGS. ROUTE ALL CONDUITS AND RACEWAYS PARALLEL, AND PERPENDICULAR TO THE STRUCTURE AND SUPPORT AS REQUIRED BY THE NEC.
- b. ALL RACEWAYS SHALL BE RGS OR IMC WHERE EXPOSED TO DAMAGE AND PUBLIC IN UNFINISHED SPACES. RACEWAYS SHALL BE SURFACE METAL RACEWAY (WIREMOLD) WHERE EXPOSED TO DAMAGE AND PUBLIC IN FINISHED SPACES.
- c. ALL EXPOSED EXTERIOR OR WET LOCATED BRANCH CIRCUIT OR FEEDER RACEWAYS SHALL BE RGS OR IMC CONDUIT.
- d. ALL RACEWAYS SHALL BE 1/2" MINIMUM SIZE.
- e. ALL UNDERGROUND BRANCH CIRCUIT OR FEEDER RACEWAYS SHALL BE PVC CONDUIT.
- f. CONNECTORS/COUPLINGS FOR USE WITH EMT CONDUIT SHALL BE STEEL COMPRESSION TYPE, EXCEPT THAT STEEL, SET SCREW TYPE WILL BE ACCEPTABLE FOR EMT CONDUIT SIZES 2-1/2" AND LARGER.
- g. RACEWAY PENETRATIONS THROUGH FLOOR SLABS AND FIRE-RATED WALLS SHALL BE FILLED WITH FIRE RATED CAULK TO PREVENT TRANSFER OF SMOKE, WATER AND DUST.
- h. FLEXIBLE METAL CONDUIT WITH APPROVED TYPE FITTINGS MAY BE USED IN LIMITED LENGTHS FOR CONNECTIONS TO MOTORS AND RECESSED FIXTURES WHERE IT IS NECESSARY TO PROVIDE FLEXIBLE CONNECTIONS.
- i. METAL-CLAD CABLE IS PERMITTED WHERE PERMITTED IN NEC. HOME RUNS TO PANEL SHALL BE IN EMT.
- j. PROVIDE 200' NYLON PULLSTRING IN ALL EMPTY RACEWAY.

- C. BOXES
- a. PROVIDE GALVANIZED STEEL OUTLET BOXES WITH STAMPED KNOCKOUTS FOR INTERIOR DRY LOCATIONS.
- b. PROVIDE CAST ALUMINUM BOX FOR ALL EXTERIOR WET LOCATIONS.
- c. INTERIOR FLUSH BOXES SHALL BE 4" SQUARE BY 1-1/4" DEEP. INTERIOR FLUSH BOXES FOR COMMUNICATION OUTLETS AND GFCI OUTLETS SHALL BE 4-1/16" SQUARE BY 2-1/8" DEEP.
- d. PROVIDE SINGLE GANG TILE COVERS UNLESS REQUIRED OTHERWISE.
- e. TILE COVER DEPTH SHALL BE SELECTED FOR EACH WALL TYPE ON THE PROJECT.
- f. BOXES SHALL NOT BE MOUNTED BACK TO BACK IN COMMON WALLS.
- g. ATTACH EMT CONDUIT WITH CONNECTORS WITH INSULATED THROATS.

- D. WIRE AND CABLES
- a. PROVIDE AND INSTALL ALL WIRING AND CABLE AS REQUIRED TO CONNECT ALL ELECTRICAL EQUIPMENT AND DEVICES INDICATED ON THE PLANS.
- b. ALL CONDUCTORS #10 GAUGE AND SMALLER SHALL BE SOLID COPPER, 75°C TYPE THHN OR THWN, 600V INSULATION.
- c. ALL CONDUCTORS #8 GAUGE AND LARGER SHALL BE STRANDED COPPER, 75°C TYPE THHN OR THWN, 600V INSULATION.
- d. BRANCH CIRCUITS SHALL NOT BE SMALLER THAN #12 AWG.
- e. CONDUCTORS SHALL BE COLOR CODED BY COLOR RANGES FOR 120/240 VOLT SYSTEMS FOR A, B AND C PHASES. NEUTRAL SHALL BE WHITE FOR 120/240V. GROUND CONDUCTOR SHALL BE GREEN, THE HIGH LEG SHALL BE MARKED WITH THE ORANGE CONDUCTOR. ENSURE NO SINGLE PHASE LOADS ARE CONNECTED TO HIGH LEG.

- E. WIRING DEVICES
- a. PROVIDE WIRING DEVICES PRODUCED BY ONE OF THE FOLLOWING MANUFACTURERS: HUBBELL, LEVITON, LEGRAND, LUTRON OR EATON.
- b. RECEPTACLES SHALL BE SPECIFICATION GRADE HEAVY-DUTY TYPE RECEPTACLES 2-POLE, 3-WIRE GROUNDING, SIDE WIRING, NEMA 5-20R, 20-AMP, 125 VOLTS, UNLESS SHOWN OTHERWISE. DWELLING UNIT RECEPTACLE SHALL BE ALLOWED TO BE COMMERCIAL GRADE WITH THE SAME CHARACTERISTICS LISTED ABOVE.
- c. WEATHERPROOF COVERS SHALL BE "WHILE-IN-USE" COVERS, UNO.
- d. EXTERIOR RECEPTACLES SHALL BE WEATHER RESISTANT "WR" AND TAMPER RESISTANT "TR" TYPE.
- e. DWELLING UNIT RECEPTACLES SHALL BE TAMPER RESISTANT "TR" TYPE.
- f. LIGHT SWITCHES SHALL BE RATED 20 AMPS, 120V AC RATED.
- g. ADJACENT DEVICES SHALL HAVE A COMMON FACEPLATE.
- h. OCCUPANCY SENSORS SHALL BE DUAL TECHNOLOGY TYPE. SENSORS SHALL BE MANUFACTURERS RECOMMENDED SIZE AND MODEL FOR EACH SPACE. EXACT LOCATION OF SENSORS SHALL BE AS DETERMINED BY MANUFACTURER IN SHOP DRAWING. ACCEPTABLE SENSOR MANUFACTURERS: HUBBELL, BUILDING AUTOMATION, WATSON/OPPER, COOPER, AND ACUITY.
- i. FINISH OF ALL WIRING DEVICES SHALL BE COORDINATED WITH ARCHITECT WITH MID-SIZE 302 STAINLESS STEEL COVERS. DWELLING UNIT DEVICES SHALL BE WHITE WITH MID-SIZE NYLON WHITE COVERS.

- F. LIGHTING FIXTURES
- a. CONTRACTOR SHALL PROVIDE ALL LIGHTING FIXTURES AS INDICATED ON THE FIXTURE SCHEDULE. SERIES NUMBERS ARE FOR GENERAL IDENTIFICATION OF FIXTURES ONLY. ALL RELATED ITEMS FOR A COMPLETE SYSTEM SHALL BE INCLUDED.
- b. LED FIXTURES SHALL HAVE A L70 RATINGS OF AT LEAST 80,000 HOURS.
- c. LED FIXTURES AND DRIVERS SHALL HAVE A 5 YEAR WARRANTY.
- d. PROVIDE FIXTURES WITH PROPER FRAMES FOR CEILING TYPES INDICATED ON THE REFLECTED CEILING PLAN.
- e. EMERGENCY FIXTURES SHALL BE PROVIDED WITH FACTORY INSTALLED WITH 1000 LUMEN EMERGENCY BATTERY PACKS, UNO.

- G. SERVICE
- a. PROVIDE ELECTRICAL SERVICE AS SHOWN ON DRAWINGS. ALL WORK NOT SPECIFICALLY NOTED AS BEING BY THE OWNER OR POWER COMPANY SHALL BE PROVIDED BY THE ELECTRICAL CONTRACTOR. CLOSELY COORDINATE ENTIRE INSTALLATION WITH OWNER AND POWER COMPANY AS REQUIRED.
- b. PROVIDE TELEPHONE SERVICE RACEWAYS FROM THE CONNECTION POINT TO LOCATION SHOWN ON PLANS. COORDINATE TELEPHONE INSTALLATION REQUIREMENTS AND POINT OF CONNECTION WITH TELEPHONE COMPANY.

- H. PANELBOARDS
- a. ACCEPTABLE MANUFACTURERS ARE GE, SIEMENS, SQUARE D, OR EATON.
- b. PROVIDE PANELBOARDS OF THE TYPE, SIZE, AND RATING INDICATED ON PANEL SCHEDULES COMPLETE WITH REQUIRED CIRCUIT BREAKERS.
- c. LIGHTING AND APPLIANCE TYPE PANELBOARDS SHALL BE A MINIMUM OF 30" WIDE.
- d. ALL BUSBARS, INCLUDING NEUTRAL AND GROUND BUSBARS, SHALL BE COPPER.
- e. CIRCUIT BREAKERS SHALL BE BOLT-IN TYPE, HEAVY-DUTY, QUICK-BREAK, QUICK-BREAK MOLDED CASE CIRCUIT BREAKERS. MULTI-POLE BREAKERS SHALL BE COMMON TRIP WITH A SINGLE HANDLE. PROVISIONS FOR FUTURE BREAKERS SHALL BE FULLY BUSSES COMPLETE WITH ALL NECESSARY MOUNTING HARDWARE.
- f. PANELS SHALL BE FULLY RATED FOR THE AVAILABLE FAULT CURRENT LISTED IN THE PANEL SCHEDULE.
- g. PROVIDE LAMINATED PLASTIC NAMEPLATES.
- h. PROVIDE NEW/UPDATED TYPED SCHEDULES FOR ALL PANELBOARDS. SPARE CIRCUIT BREAKERS SHALL BE LABELED SPARE AND IN THE OFF POSITION.

- I. GROUNDING
- a. THE ELECTRICAL SYSTEM SHALL BE COMPLETELY AND EFFECTIVELY GROUNDING AS REQUIRED BY THE NATIONAL ELECTRIC CODE. ALL GROUND SYSTEMS AND CONNECTIONS SHALL BE MECHANICALLY SECURE AND ELECTRICALLY CONTINUOUS.
- b. PROVIDE ELECTRICAL BRANDING, EXOTHERMIC CONNECTORS AND TERMINALS. BOLTED CLAMP WILL NOT BE ACCEPTED BETWEEN GROUNDING RODS AND GROUND CONDUCTORS.
- c. BOND EQUIPMENT GROUNDING CONDUCTORS TO ALL OUTLET BOXES WITH A SCREW USED FOR NO OTHER PURPOSE.
- d. CONNECT EQUIPMENT GROUNDING CONDUCTOR TO DEVICE GROUNDING TERMINALS.
- e. PROVIDE BARE OR GREEN INSULATED STRANDED COPPER SIZED ACCORDING TO NEC OR AS SHOWN.
- f. GROUND RODS SHALL BE 3/4" DIAMETER X 10' COPPER-CLAD STEEL, SECTIONAL TYPE.

- J. DISCONNECT SWITCHES
- a. ACCEPTABLE MANUFACTURERS ARE GE, SIEMENS, SQUARE D, OR EATON.
- b. PROVIDE HEAVY DUTY TYPE, SHEET STEEL ENCLOSED SAFETY SWITCHES, INCORPORATING QUICK-BREAK TYPE SWITCHES.
- c. ALL SWITCHES SHALL BE UL LISTED.
- d. DISCONNECTS SHALL BE NON-FUSED TYPE, UNO.
- K. SURGE PROTECTION DEVICE (SPD)
- a. SPD SHALL BE INSTALLED INTERNALLY IN EACH LOAD CENTER.
- b. PROVIDE SPD UNITS CONNECTED IN PARALLEL WITH POWER DISTRIBUTION EQUIPMENT.
- c. SPD FOR DISTRIBUTION EQUIPMENT SHALL BE AS FOLLOWS: SINGLE PULSE SURGE CAPACITY PER MODE: 80,000 AMPS AND MODES: L-L, L-N, AND L-G.
- d. ALL UNITS SHALL HAVE THE FOLLOWING FEATURES: PHASE LED INDICATOR LIGHTS, DISTURBANCE COUNTER, 5-YEAR REPAIR/REPLACEMENT WARRANTY FROM MANUFACTURER IN THE NAME OF THE OWNER.

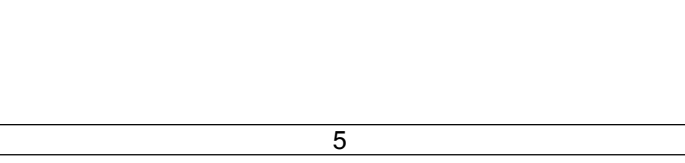
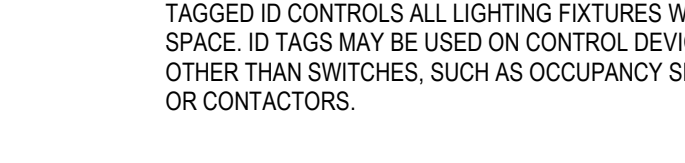
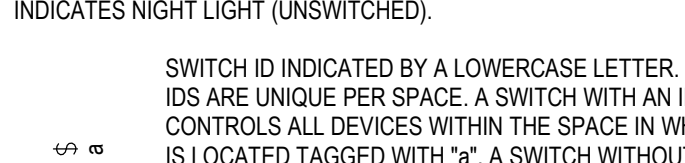
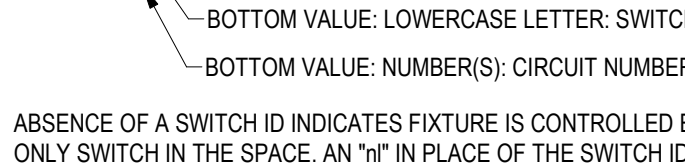
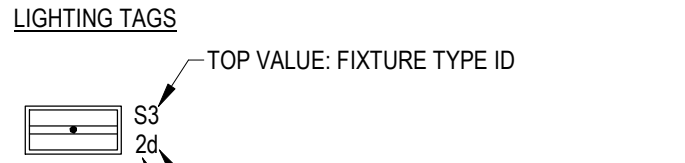
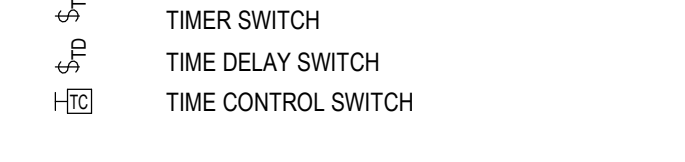
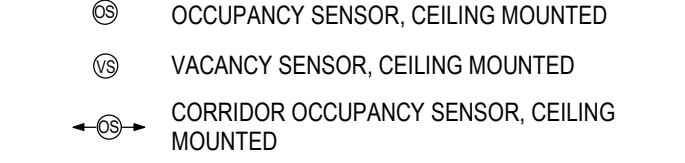
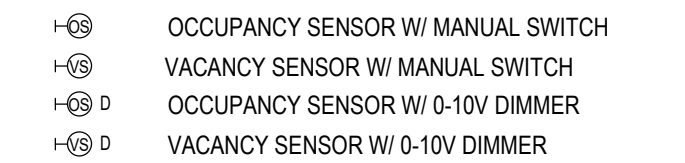
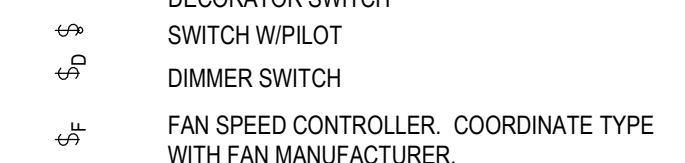
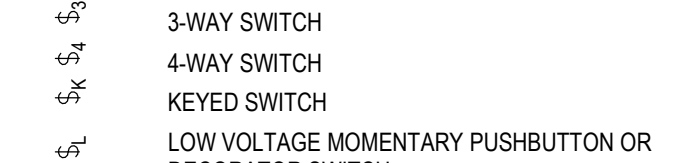
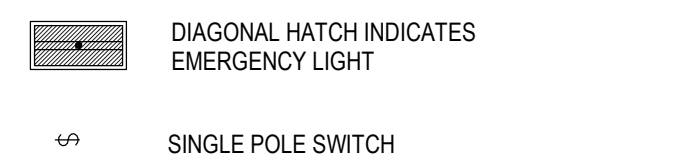
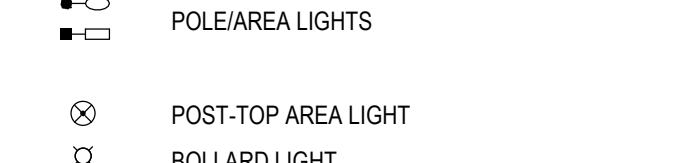
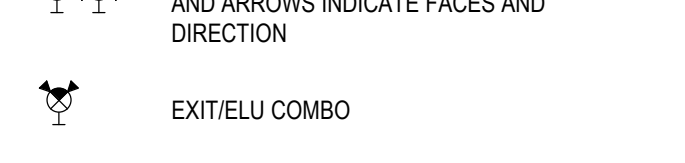
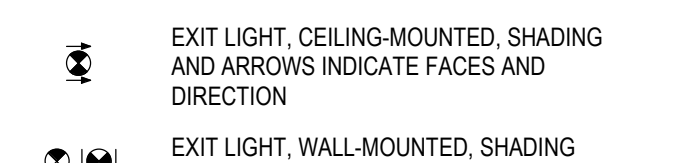
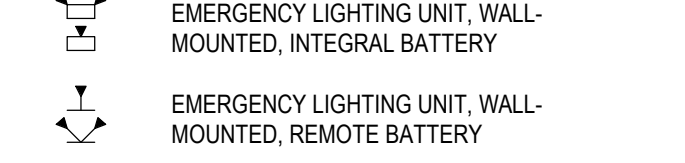
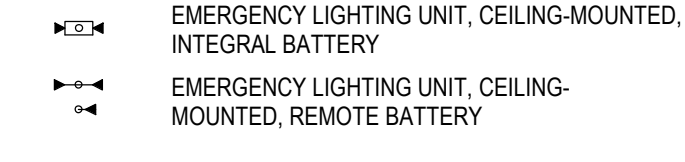
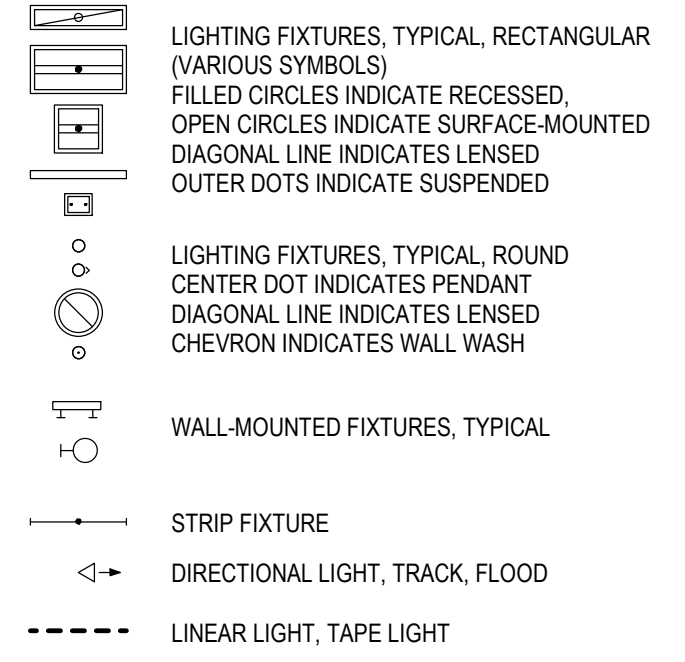
- L. FIRE ALARM SYSTEM
- a. APPLICABLE PROVISIONS OF THE STATE AND LOCAL CODES AND OF NFPA No. 70 and 72, CURRENT ADOPTED EDITION, ARE HEREBY IMPOSED ON A GENERAL BASIS FOR WORK ASSOCIATED WITH THE FIRE ALARM SYSTEM.
- b. PROVIDE ALL LABOR, MATERIALS, AND EQUIPMENT REQUIRED FOR A COMPLETE AND OPERABLE FIRE ALARM SYSTEM.
- c. THIS IS A PERFORMANCE-BASED SPECIFICATION. THE SYSTEM SPECIFIED HEREIN SHALL BE DESIGNED BY THE MANUFACTURER OR AN AUTHORIZED REPRESENTATIVE OF THE MANUFACTURER WHO IS EITHER A REGISTERED FIRE PROTECTION ENGINEER OR A NICET CERTIFIED ENGINEERING TECHNOLOGIST.
- d. FOR NEW FIRE ALARM SYSTEMS, ACCEPTABLE MANUFACTURERS ARE NOTIFIER, EDWARDS EST AND SIMPLIX.
- e. ALL MATERIALS AND EQUIPMENT SHALL BE NEW, UN Damaged AND FREE FROM ANY DEFECTS. ALL MATERIALS SHALL CONFORM TO U.L. AND NEMA REQUIREMENTS.
- f. PROVIDE INTELLIGENT, ADDRESSABLE, ANALOG FIRE ALARM SYSTEM.
- g. ALL WIRING SHALL BE INSTALLED IN RIGID METALLIC CONDUIT SYSTEM.
- h. IT IS THE RESPONSIBILITY OF THE MANUFACTURERS REPRESENTATIVE TO SUBMIT APPROPRIATE DRAWINGS, CALCULATIONS, AND OTHER SUPPORTING DOCUMENTS TO THE AUTHORITY HAVING JURISDICTION FOR PERMIT APPROVAL.

3. EXECUTION
- A. WORKMANSHIP
- a. ALL WORK SHALL BE INSTALLED IN A NEAT WORKMANLIKE MANNER AND IN STRICT ACCORDANCE WITH CODE REQUIREMENTS AND THE RESPECTIVE MANUFACTURERS INSTRUCTIONS.
- B. TEMPORARY POWER
- a. FURNISH AND INSTALL TEMPORARY LIGHT AND POWER AS MAY BE REQUIRED BY ALL TRADES.
- C. SUPPORTS
- a. PROVIDE ALL MATERIALS AND LABOR REQUIRED TO ADEQUATELY SUPPORT, BRACE AND STRENGTHEN EQUIPMENT AND MATERIALS FURNISHED AS PART OF THIS WORK.
- b. ALL RACEWAYS, BOXES, ETC., SHALL BE SUPPORTED DIRECTLY FROM THE STRUCTURE, INDEPENDENT OF DUCT, PIPING OR OTHER WORK.
- D. BRANCH CIRCUITS
- a. PROVIDE ALL CONDUITS, OUTLETS, BOXES, WIRES, SWITCHES, RECEPTACLES, ETC., FOR A COMPLETE ELECTRICAL SYSTEM AS SHOWN ON THE DRAWINGS.
- b. CONTRACTOR SHALL CAREFULLY CHECK MECHANICAL AND PLUMBING DRAWINGS AND SPECIFICATIONS TO ESTABLISH EXTENT OF POWER TO BE PROVIDED.
- E. CLEANING
- a. CONTRACTOR SHALL AT ALL TIMES KEEP THE PREMISES FREE OF ALL WASTE, SURPLUS MATERIALS, OR DEBRIS WHICH IS CAUSED BY HIS EMPLOYEES OR RESULTING FROM HIS WORK.
- b. AFTER ALL EQUIPMENT AND DEVICES HAVE BEEN INSTALLED, REMOVE ALL LABELS, STICKERS, STAINS, TEMPORARY COVERS, ETC.
- c. PROVIDE IDENTIFICATION PLATES ON ALL EQUIPMENT.

ELECTRICAL ABBREVIATIONS LIST

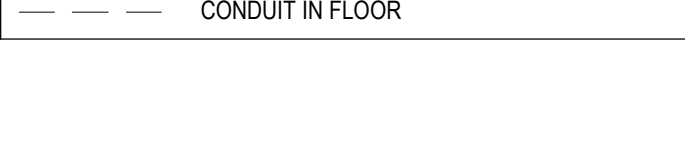
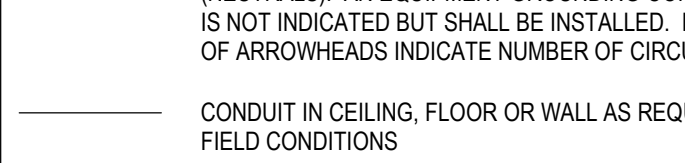
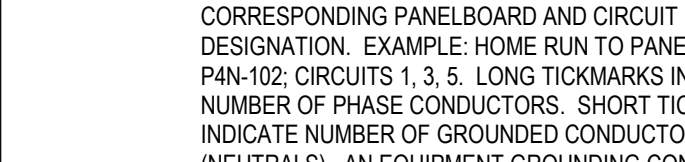
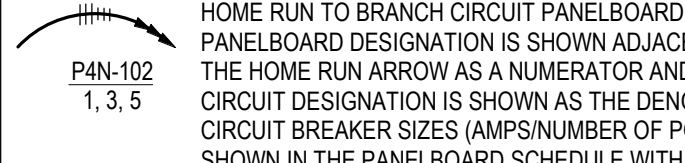
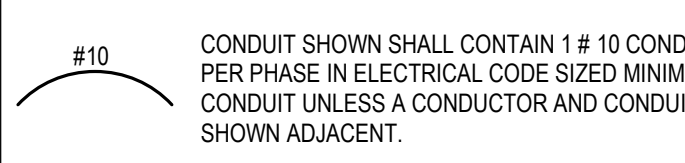
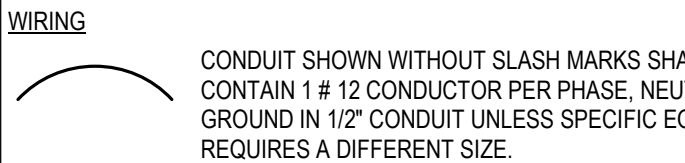
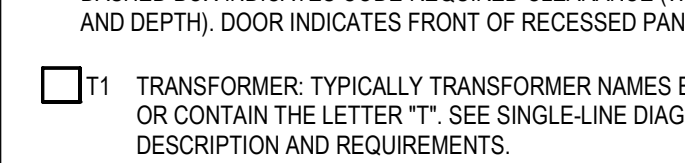
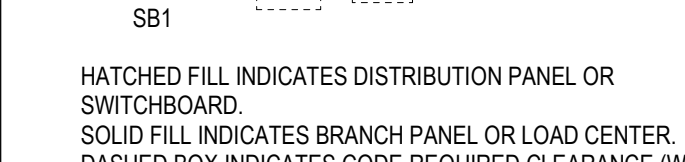
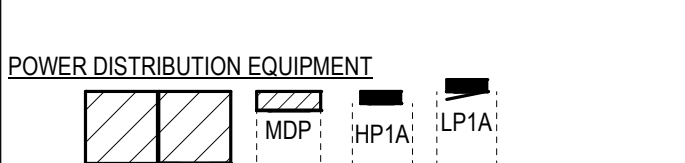
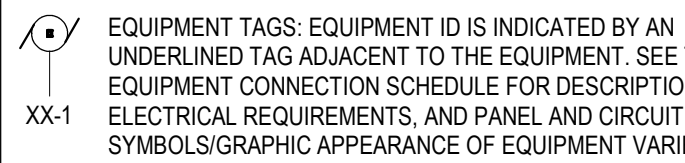
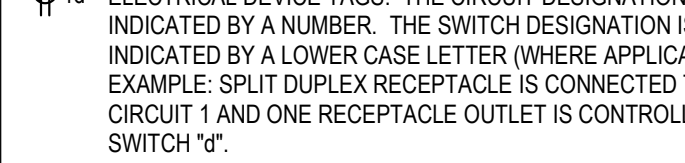
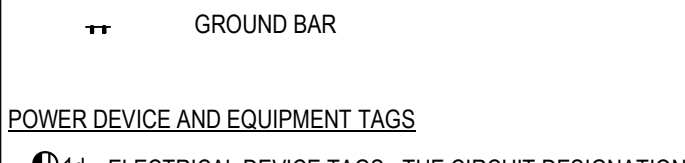
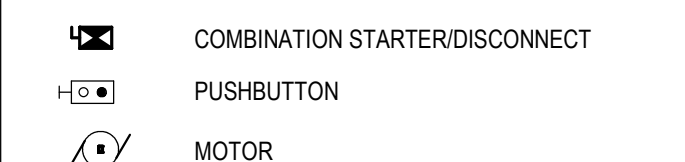
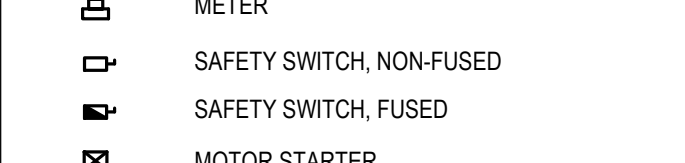
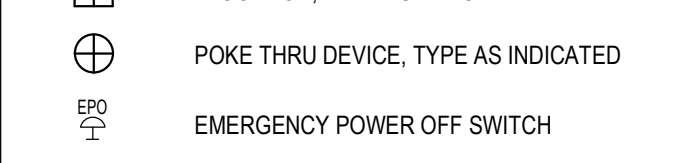
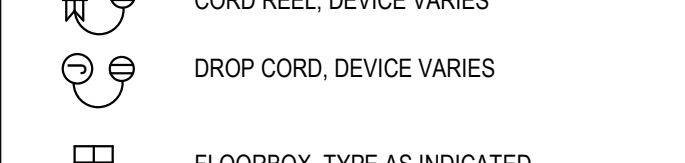
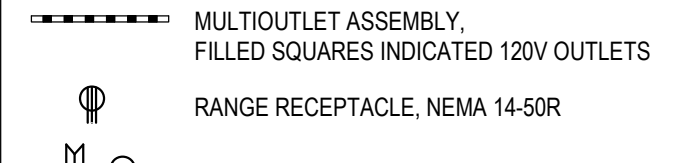
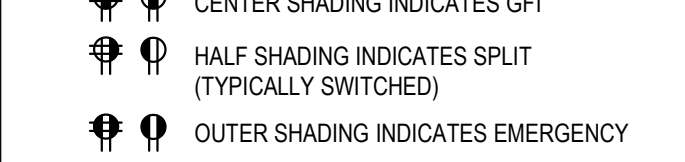
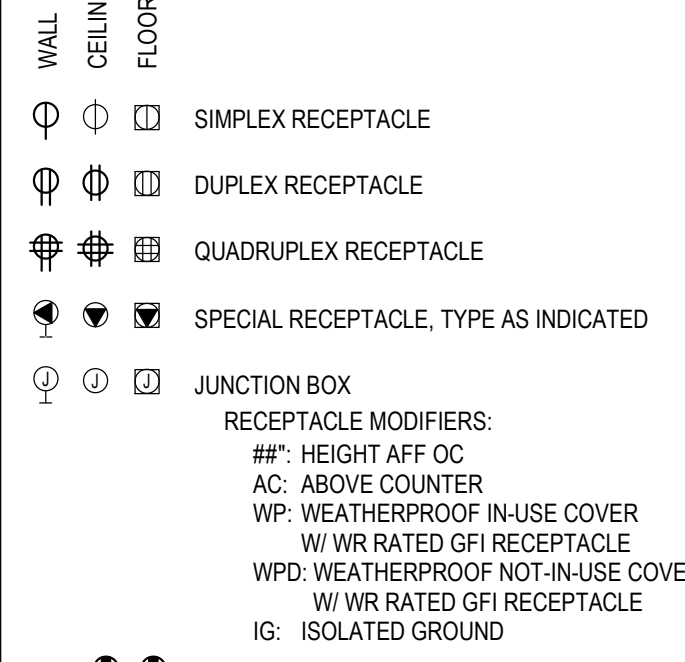
1P	1 POLE (2P, 3P, 4P, ETC.)	MCB	MAIN CIRCUIT BREAKER
A	AMPERE	MCC	MOTOR CONTROL CENTER
AC	ABOVE COUNTER	MDC	MAIN DISTRIBUTION CENTER
ACLG	ABOVE CEILING	MDF	MAIN DISTRIBUTION PANEL
ADO	AUTOMATIC DOOR OPENER	MFR	MANUFACTURER
AF	AMP FRAME	MFS	MAIN FUSED DISCONNECT SW
AFB	ABOVE FINISHED FLOOR	MH	MANHOLE
AG	ABOVE FINISHED GRADE	MIC	MICROPHONE
AFS	ARC FAULT CIRCUIT INTERRUPTER	MIN	MINIMUM
AHJ	ARCHITECT	MISC	MISCELLANEOUS
AS	AIRP SWITCH	MLO	MAN LUS ONLY
AL	ALUMINUM	MMS	MANUAL MOTOR STARTER
ALT	ALTERNATE	MOA	MANUALLY OPERATED
AMP	AMPERE	MSP	MOTOR STARTER PANELBOARD
AMPL	AMPLIFIER	MSBD	MAIN SWITCHBOARD
ANUN	ANNUNCIATOR	MT	MONTH
ANUN	ANNUNCIATOR	MT	MONTH
APPROX	APPROXIMATELY	MT	MONTH
AQ-STAR	AQUASTAR	MTS	MANUAL TRANSFER SWITCH
ARCH	ARCHITECT, ARCHITECTURAL	MTR	MOTOR, TORQUEZED
AUTO	AUTOMATIC	N	NORMALLY CLOSED
AT	AMP TRIP	NEC	NATIONAL ELECTRICAL CODE
ATS	AUTOMATIC TRANSFER SWITCH	NEMA	NATIONAL ELECTRICAL CODE
AUX	AUXILIARY	NFDS	NON-FUSED SAFETY DISCONNECT
AVG	AMERICAN WIRE GAUGE	NIC	NOT IN CONTRACT
BATT	BATTERY	NL	NIGHT LIGHT
BO	BOARD	N.O.	NORMALLY OPEN
BDO	BUILDING	NPF	NORMAL POWER FACTOR
BMS	BUILDING MANAGEMENT SYSTEM	NTS	NOT TO SCALE
C	CONDUIT	OH	OVERHEAD
CAB	CABINET	OL	OVERLOADS
CAT	CATALOG	PA	PUBLIC ADDRESS
CATV	CABLE TELEVISION	PB	PULL BOX OR PUSHBUTTON
CB	CIRCUIT BREAKER	PE	PNEUMATIC ELECTRIC
CC	CURRENT TRANSFORMER	PF	POWER FACTOR
CCTV	CLOSED CIRCUIT TELEVISION	PH	PHASE
CKT	CIRCUIT	PI	POST INDICATING VALVE
CLD	CEILING	PINL	PISTON
COMB	COMBINATION	PP	POWER POLE
CMFR	COMPRESSOR	PR	PRIMARY
CONN	CONNECTION	PROJ	PROJECTION
CONST	CONSTRUCTION	RV	POWER ROOF VENTILATOR
CONT	CONTINUATION OR CONTINUOUS	RT	POTENTIAL TRANSFORMER
CONTR	CONTRACTOR	PVC	POLYVINYL CHLORIDE (CONDUIT)
CONV	CONVECTOR	Q	QUANTITY
CR	CIRCULATING PUMP	RCTPT	RECEPTACLE
CRT	CENTER RAY TUBE	REQD	REQUIRED
CTR	CATHODE	RM	ROOM
CU	COPPER	RSC	RIGID STEEL CONDUIT
DOP	DOMESTIC WATER CIRCULATING PUMP	RTU	ROOM TON UNIT
DEPT	DEPARTMENT	SC	SURFACE CONDUIT
DET	DETAIL	SEC	SECONDARY
DIA	DIAMETER	SH	SHIELD
DISC	DISCONNECT	SIM	SIMILAR
DIST	DISTRIBUTION	SN	SOLID NEUTRAL
DN	DOWN	SP	SPEAKER
DPR	DAMPEN	SP	SPACE
DS	SAFETY DISCONNECT SWITCH	SR	SURGE PROTECTION DEVICE
DWG	DRAWING	SS	STAINLESS STEEL
ELEC	ELECTRICAL CONTRACTOR	SS	STAINLESS STEEL
ELEC	ELECTRICAL, ELECTRICAL	S/S	STOP/START PUSHBUTTONS
ELEV	ELEVATOR	STA	STATION
ELU	EMERGENCY LIGHTING UNIT	STD	STANDARD
EMT	ELECTRICAL METALLIC TUBING	SURF	SURFACE MOUNTED
EMT	ELECTRICAL PNEUMATIC	SW	SWITCH
EQUIP	EQUIPMENT	SWBD	SWITCHBOARD
EWC	ELECTRIC WATER COOLER	SY	SYMMETRICAL
EXIST	EXISTING	SVS	SYSTEM
EXH	EXHAUST	TEL	TELEPHONE
EXP	EXPANSION PROOF	TEL	TELEPHONE
FA	FIRE ALARM	TEL	TELEPHONE
FABP	FIRE ALARM BOOSTER POWER SUPPLY PANEL	TERM	TERMINAL
FACP	FIRE ALARM CONTROL PANEL	TL	TIMELock
FCU	FAN COIL UNIT	TR	TAMPER RESISTANT
FIXT	FIXTURE	T-STAT	THERMOSTAT
FLR	FLOOR	TTC	TELEPHONE TERMINAL CABINET
FLUR	FLOURESCENT	TV	TELEVISION
FUSE	FUSE	TYVC	TELEVISION TERMINAL CABINET
FUSED	FUSED SAFETY DISCONNECT SWITCH	TYP	TYPICAL
GA	GAUGE	UC	UNDER COUNTER
GAL	GALLON	UE	UNDERGROUND ELECTRICAL
GALV	GALVANIZED	UG	UNDERGROUND
GC	GENERAL CONTRACTOR	UH	UNIT HEATER
GEN	GENERATOR	UNO	UNLESS NOTED OTHERWISE
GFI	GROUND FAULT CIRCUIT INTERRUPTER	UTL	UTILITY
GFP	GROUND FAULT PROTECTOR	UV	ULTRAVIOLET
GND	GROUND	V	VOLT
GRS	GALVANIZED RIGID STEEL (CONDUIT)	V	VOLT
GYP BD	GYPSUM BOARD	VD	VARIABLE FREQUENCY DRIVE
HOA	HANDS-OFF AUTOMATIC SWITCH	VERT	VERTICAL
HORIZ	HORIZONTAL	VP	VARIABLE FREQUENCY DRIVE
HP	HORSEPOWER	VOL	VOLUME
HPF	HIGH POWER FACTOR	W	WATT
HTG	HEATING	WI	WITH
HTR	HEATER	WG	WIRE GUARD
HV	HIGH VOLTAGE	WH	WATER HEATER
HVAC	HEATING, VENTILATING AND AIR CONDITIONING	WID	WITHOUT
IC	INTER interrupting CAPACITY	WP	WEATHERPROOF
IG	ISOLATED GROUND	WPT	WEATHERPROOF TRANSFORMER
IMC	INTERMEDIATE METAL CONDUIT	XFR	TRANSFER
INCOND	INCOGNESCENT		
INFR	INFRARED		
IR	INTERLOCK WITH		
J-BOX	JUNCTION BOX		
KV	KILOVOLT		
KVA	KILOVOLT-AMPERE		
KVAR	KILOVOLT-AMPERE REACTIVE		
KW	KILOWATT		
KWH	KILOWATT HOUR		
LOC	LOCATE OR LOCATION		
LT	LIGHT		
LTG	LIGHTING		
LTVG	LIGHTING		
LV	LOW VOLTAGE		
MAX	MAXIMUM		
MAX	MAXIMUM		
MAG S	MAGNETIC STARTER		
MIC	MOMENTARY CONTACT		
MIC	MECHANICAL CONTRACTOR		

LIGHTING SYMBOLS



ELECTRICAL SYMBOL LEGEND

POWER SYMBOLS



DECORATIVE LIGHTING FIXTURE SCHEDULE																			
TYPE	CONSTRUCTION				LIGHT SOURCE							ELECTRICAL				PRODUCT		NOTE	TYPE
	DESCRIPTION	FINISH	LENS/LOUVER	MOUNTING	LAMP	MINIMUM LUMENS DOWN	MINIMUM LUMENS UP	CCT	MINIMUM CRI	MINIMUM PROJECTED LIFE	BALLAST/DRIVER	VOLT	MAXIMUM WATTS	WIR	EMERGENCY COMPONENT	MFR	MODEL		
A1	DECORATIVE SCONCE	SELECTED BY ARCHITECT	DECORATIVE	SURFACE WALL	LED	800 lm	0 lm	3500 K	80	25,000 HOURS	LED DRIVER, ELV DIMMABLE, 2%	120 V	15 W		--	SELECTED BY ARCHITECT	SELECTED BY ARCHITECT	PROVIDE \$300 ALLOWANCE PER FIXTURE	A1
A2	DECORATIVE PENDANT	SELECTED BY ARCHITECT	--	SUSPENDED	LED	800 lm	0 lm	3500 K	80	25,000 HOURS	LED DRIVER, ELV DIMMABLE, 2%	120 V	15 W		--	SELECTED BY ARCHITECT	SELECTED BY ARCHITECT	PROVIDE \$300 ALLOWANCE PER FIXTURE	A2
A3	DECORATIVE PENDANT	SELECTED BY ARCHITECT	--	SUSPENDED	LED	800 lm	0 lm	3500 K	80	25,000 HOURS	LED DRIVER, ELV DIMMABLE, 2%	120 V	30 W		--	SELECTED BY ARCHITECT	SELECTED BY ARCHITECT	PROVIDE \$300 ALLOWANCE PER FIXTURE	A3
AF1	CEILING FAN / LIGHT KIT	SELECTED BY ARCHITECT	--	CEILING SUSPENDED	LED	800 lm	0 lm	3000 K	90	25,000 HOURS	--	120 V	150 W		--	SELECTED BY ARCHITECT	SELECTED BY ARCHITECT	PROVIDE \$500 ALLOWANCE PER FIXTURE	AF1
OA1	EXTERIOR DECORATIVE SCONCE	SELECTED BY ARCHITECT	--	WALL	LED	1600 lm	0 lm	3000 K	70	25,000 HOURS	LED DRIVER	120 V	30 W		--	SELECTED BY ARCHITECT	SELECTED BY ARCHITECT	PROVIDE \$300 ALLOWANCE PER FIXTURE	OA1

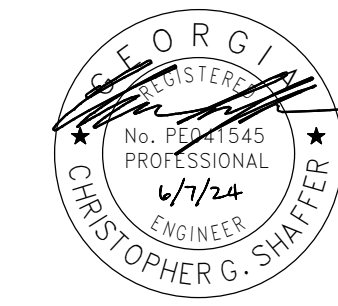
NOTES:
1. ALLOWANCES FOR FIXTURES SHALL BE SHARED ACROSS FIXTURE TYPES FOR A TOTAL ALLOWANCE BUDGET.
2. PROVIDED JUNCTION BOX RATED FOR FIXTURE TYPE AND WEIGHT SELECTED.

LIGHTING SHEET NOTES

- A ALL RECESSED LIGHTING FIXTURES IN LAY-IN CEILINGS SHALL BE INSTALLED WITH 6' LONG FLEXIBLE METAL CONDUIT.
B ALL MOUNTING HEIGHTS FOR LIGHTING FIXTURES ARE TO THE BOTTOM OF THE FIXTURES UNLESS INDICATED OTHERWISE.
C SEE ARCHITECTURAL EXTERIOR ELEVATIONS FOR MOUNTING HEIGHTS OF EXTERIOR LIGHTING FIXTURES.
D CIRCUIT WIRING IS NOT SHOWN. PROVIDE PROPER NUMBER OF CONDUCTORS TO ACHIEVE CIRCUITING AND SWITCHING SHOWN.
E CIRCUIT NUMBERS AT DEVICES CORRESPOND TO PANELBOARD BREAKERS (SEE PANELBOARD SCHEDULE). BRANCH CIRCUITS SHALL BE SIZED ACCORDING TO THE CIRCUIT BREAKER RATING, UNLESS INDICATED OTHERWISE ON THE ELECTRICAL EQUIPMENT SCHEDULE.
F WHERE WALL MOUNTED FIXTURES REQUIRE A LARGER BACKBOX FOR ELECTRONIC ITEMS SUCH AS AN EMERGENCY BATTERY, PROVIDE THE SAME LARGER SIZE BACKBOX FOR ALL FIXTURES OF THE SAME TYPE IN THE SPACE.

J.ELDER
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ROOF TOP ADDITION

AT

408 MARTIN LUTHER KING JR. BLVD.

BASEMENT LIGHTING PLAN

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JOB NUMBER

231103

CONTRACT DATE

REVISIONS

NO.	DESCRIPTION	DATE

ISSUE DATE

06/06/2024

CURRENT DRAWING STATUS

CONSTRUCTION
DOCUMENT

E-100

1 BASEMENT LIGHTING PLAN
E-100 1/4" = 1'-0"

LIGHTING FIXTURE SCHEDULE																			
TYPE	CONSTRUCTION				LIGHT SOURCE					ELECTRICAL				PRODUCT				NOTE	TYPE
	DESCRIPTION	FINISH	LENS/LOUVER	MOUNTING	LAMP	LUMENS DOWN	CCT	CRI	PROJECTED LIFE	BALLAST/DRIVER	VOLT	WATTS	W/H	EMERGENCY COMPONENT	MFR	MODEL			
B1	4" DOWNLIGHT	CLEAR	SEM-SPECULAR	RECESSED	LED	1400 lm	3000 K	80	60,000 HOURS	LED DRIVER, ELV DIMMABLE, 2%	120 V	15 W		--	JUNO	IC1LEDFW SERIES	--	B1	
C1	4" SHOWER DOWNLIGHT	WHITE	FROSTED LENS	RECESSED	LED	625 lm	3000 K	80	60,000 HOURS	LED DRIVER, ELV DIMMABLE, 2%	120 V	15 W		--	JUNO	RB4S SERIES WITH IC1FW LEDT24 SERIES	WET LOCATION RATED	C1	
D1	4" STRIP	WHITE	SMOOTH FROSTED	SUSPENDED/ SURFACE	LED	4000 lm	3000 K	80	60,000 HOURS	LED DRIVER	120 V	45 W		--	COLUMBIA METALUX LITHONIA	MPS SERIES SNLED SERIES CSS SERIES	MOUNTING AS REQUIRED, SUSPEND TO 10' AFF	D1	
D1E	4" STRIP	WHITE	SMOOTH FROSTED	SUSPENDED/ SURFACE	LED	4000 lm	3000 K	80	60,000 HOURS	LED DRIVER	120 V	45 W		BATTERY (1000 LUMEN MIN)	COLUMBIA METALUX LITHONIA	MPS SERIES SNLED SERIES CSS SERIES	MOUNTING AS REQUIRED, SUSPEND TO 10' AFF	D1E	
D2	2" STRIP	WHITE	FROSTED ACRYLIC	SURFACE WALL HORIZONTAL	LED	1500 lm	3000 K	80	60,000 HOURS	LED DRIVER, 0-10V DIMMABLE, 10%	120 V	15 W		--	COLUMBIA METALUX LITHONIA	MPS SERIES SNLED SERIES CSS SERIES	--	D2	
EW1	ELU INDOOR, TWO HEAD	WHITE	--	SURFACE WALL	LED	270 lm	5000 K	80	--	--	120 V	4 W		BATTERY	DUAL-LITE SURE-LITE LITHONIA	EZ-2 SERIES SEL2S SERIES ELUM2L SERIES	--	EW1	
F1	4" ENCLOSED AND GASKETED	WHITE	FROSTED ACRYLIC	SURFACE WALL HORIZONTAL	LED	4000 lm	4000 K	80	60,000 HOURS	LED DRIVER, 0-10V DIMMABLE, 10%	120 V	25 W		--	COLUMBIA METALUX	XLEM SERIES VT3 SERIES	--	F1	
G1E	4" STAIRWELL FIXTURE WITH INTEGRAL OCCUPANCY SENSOR	WHITE	FROSTED LENS	SURFACE WALL HORIZONTAL	LED	5100 lm	3000 K	80	50,000 HOURS	LED DRIVER, 0-10V DIMMING	120 V	60 W		BATTERY (1000 LUMEN MIN)	NEW STAR LIGHTING METALUX	STWL4-T SERIES SNLED SERIES	--	G1E	
OB1	EXTERIOR WALL PACK (FORWARD THROW)	BRONZE	--	WALL 10' AFF	LED	2000 lm	3000 K	70	70,000 HOURS	LED DRIVER, DIMMABLE 0-10V	120 V	26 W		--	LUMARK HUBBELL LITHONIA	XTOR SERIES SG SERIES WPX SERIES	IP66, WET LOCATION LISTED	OB1	
XCL1	EXIT/ELU THERMOPLASTIC COMBO, 1-SIDED	WHITE HOUSING WITH RED LETTERING	--	CEILING	LED	160 lm	4000 K	70	--	--	120 V	12 W		BATTERY	LITHONIA DUAL-LITE SURE-LITES	LHQM SERIES EVC SERIES APCX SERIES	--	XCL1	
XWT1	EXIT SIGN, THERMOPLASTIC, 1-SIDED	WHITE HOUSING WITH RED LETTERING	--	WALL SURFACE	LED	0 lm	0 K	0	--	--	120 V	5 W		BATTERY	LITHONIA DUAL-LITE SURE-LITES	LQM SERIES EVC SERIES APC SERIES	--	XWT1	

LIGHTING SHEET NOTES

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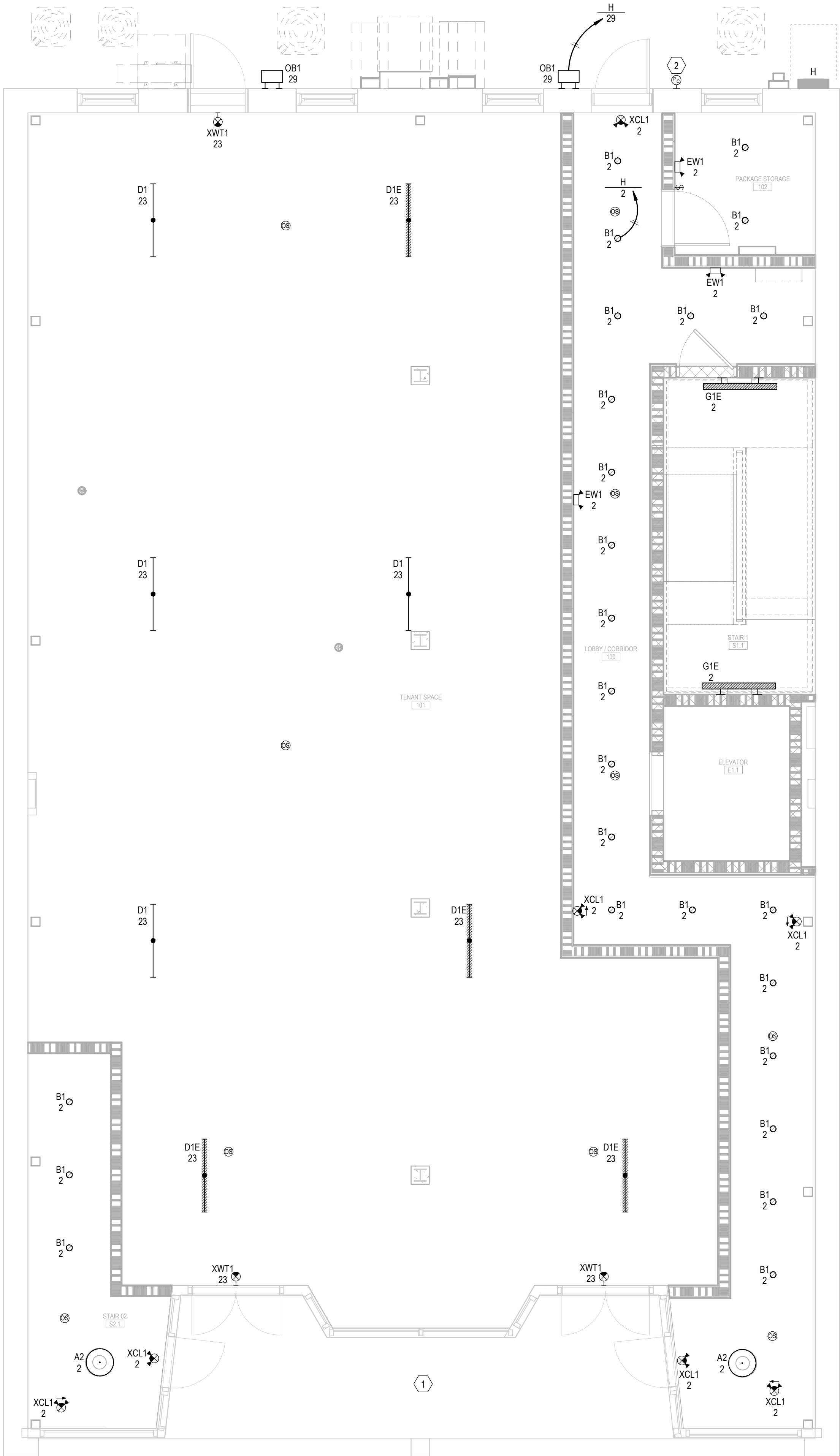
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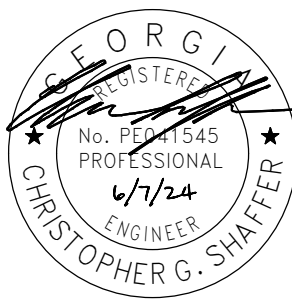
KEYNOTES

1 CONNECT EXISTING EXTERIOR LIGHTS TO HOUSE PANEL AND ROUTE THROUGH PHOTOCELL.

2 PHOTOCELL FOR EXTERIOR LIGHTING.



1 FIRST FLOOR LIGHTING PLAN
E-101 1/4" = 1'-0"



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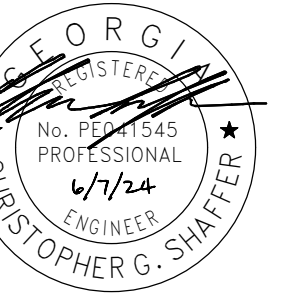
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A ALL RECESSED LIGHTING FIXTURES IN LAY-IN CEILINGS SHALL BE INSTALLED WITH 6 LONG FLEXIBLE METAL CONDUIT.

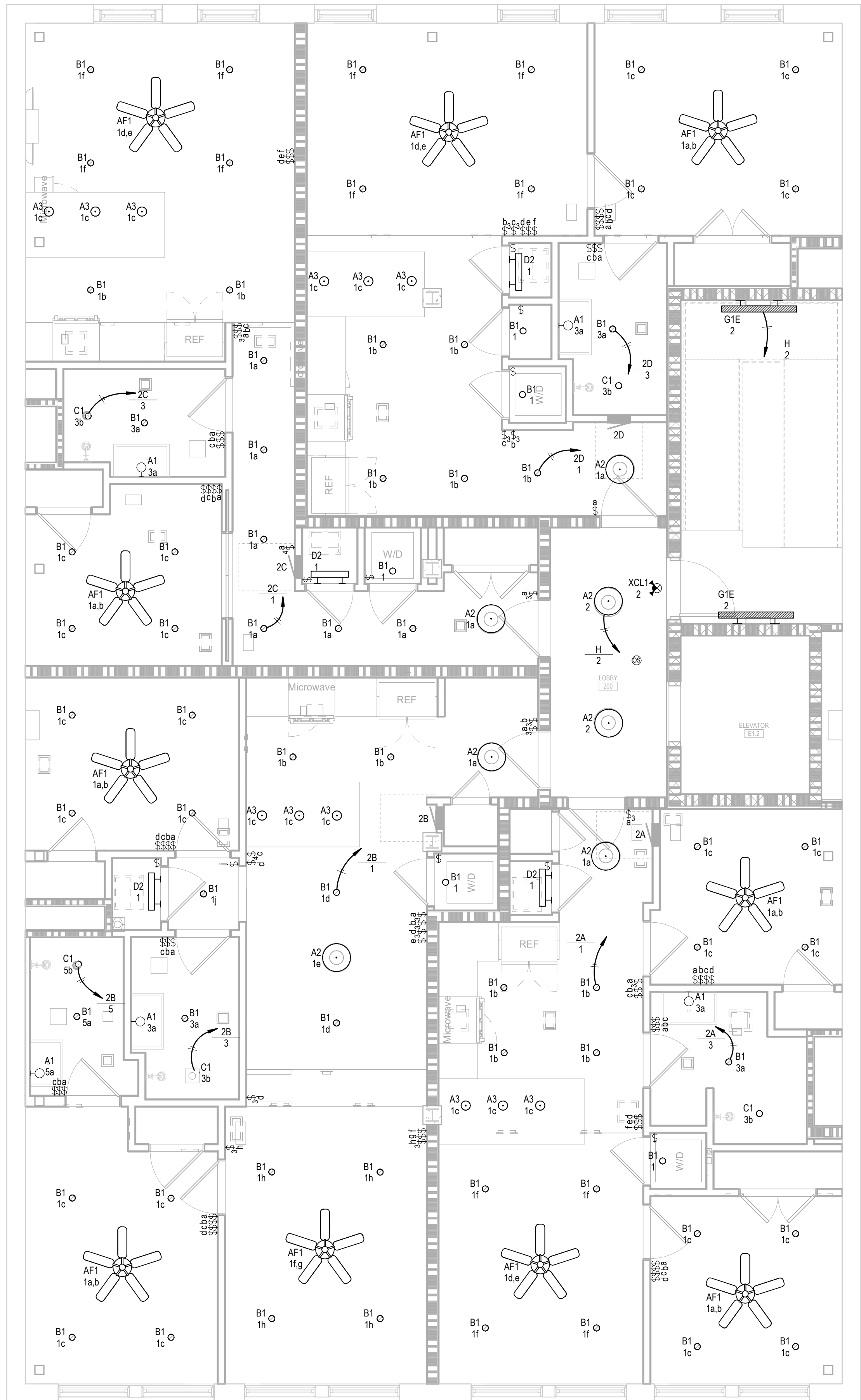
B ALL MOUNTING HEIGHTS FOR LIGHTING FIXTURES ARE TO THE BOTTOM OF THE FIXTURES UNLESS INDICATED OTHERWISE.

C SEE ARCHITECTURAL, EXTERIOR ELEVATIONS FOR MOUNTING HEIGHTS OF EXTERIOR LIGHTING FIXTURES.

D CIRCUIT WIRING IS NOT SHOWN. PROVIDE PROPER NUMBER OF CONDUCTORS TO ACHIEVE CIRCUITING AND SWITCHING SHOWN.

E CIRCUIT NUMBERS AT DEVICES CORRESPOND TO PANELBOARD BREAKERS (SEE PANELBOARD SCHEDULE). BRANCH CIRCUITS SHALL BE SIZED ACCORDING TO THE CIRCUIT BREAKER RATING, UNLESS INDICATED OTHERWISE ON THE ELECTRICAL EQUIPMENT SCHEDULE.

F WHERE WALL MOUNTED FIXTURES REQUIRE A LARGER BACKBOX FOR ELECTRONIC ITEMS SUCH AS AN EMERGENCY BATTERY, PROVIDE THE SAME LARGE SIZE BACKBOX FOR ALL FIXTURES OF THE SAME TYPE IN THE SPACE.



1 SECOND FLOOR LIGHTING PLAN
E-102 1/4" = 1'-0"

AT
408 MARTIN LUTHER KING JR. BLVD.

SECOND FLOOR LIGHTING PLAN

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ROOF TOP ADDITION

AT

408 MARTIN LUTHER KING JR. BLVD.

THIRD FLOOR LIGHTING PLAN

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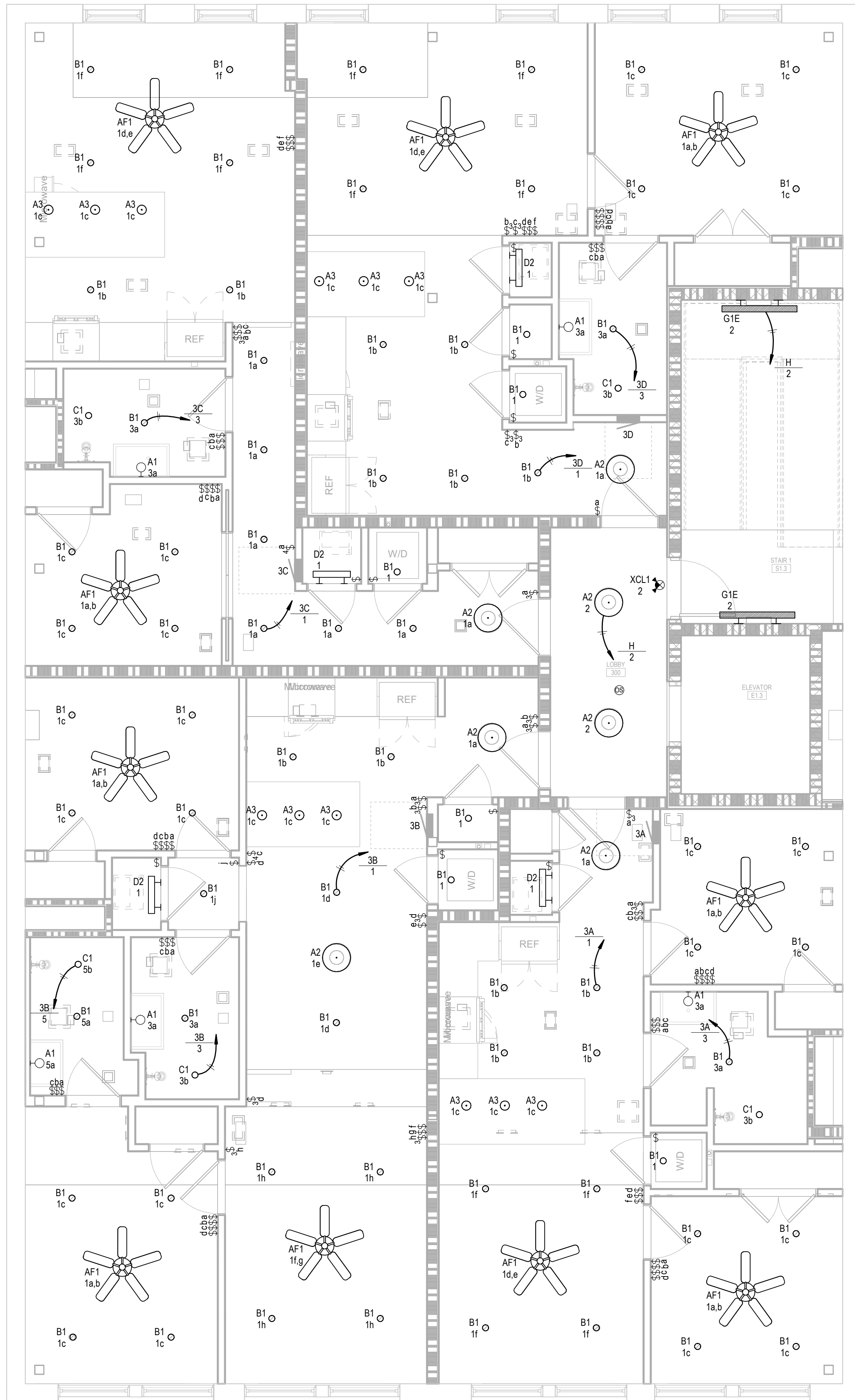
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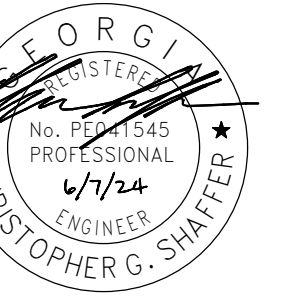
E-103

LIGHTING SHEET NOTES

- A ALL RECESSED LIGHTING FIXTURES IN LAY-IN CEILINGS SHALL BE INSTALLED WITH 6' LONG FLEXIBLE METAL CONDUIT.
B ALL MOUNTING HEIGHTS FOR LIGHTING FIXTURES ARE TO THE BOTTOM OF THE FIXTURES UNLESS INDICATED OTHERWISE.
C SEE ARCHITECTURAL EXTERIOR ELEVATIONS FOR MOUNTING HEIGHTS OF EXTERIOR LIGHTING FIXTURES.
D CIRCUIT WIRING IS NOT SHOWN. PROVIDE PROPER NUMBER OF CONDUCTORS TO ACHIEVE CIRCUITING AND SWITCHING SHOWN.
E CIRCUIT NUMBERS AT DEVICES CORRESPOND TO PANELBOARD BREAKERS (SEE PANELBOARD SCHEDULE). BRANCH CIRCUITS SHALL BE SIZED ACCORDING TO THE CIRCUIT BREAKER RATING. UNLESS INDICATED OTHERWISE ON THE ELECTRICAL EQUIPMENT SCHEDULE.
F WHERE WALL MOUNTED FIXTURES REQUIRE A LARGER BACKBOX FOR ELECTRONIC ITEMS SUCH AS AN EMERGENCY BATTERY. PROVIDE THE SAME LARGER SIZE BACKBOX FOR ALL FIXTURES OF THE SAME TYPE IN THE SPACE.



1 THIRD FLOOR LIGHTING PLAN
E-103 1/4" = 1'-0"



A ALL RECESSED LIGHTING FIXTURES IN LAY-IN CEILINGS SHALL BE INSTALLED WITH 6 LONG FLEXIBLE METAL CONDUIT.

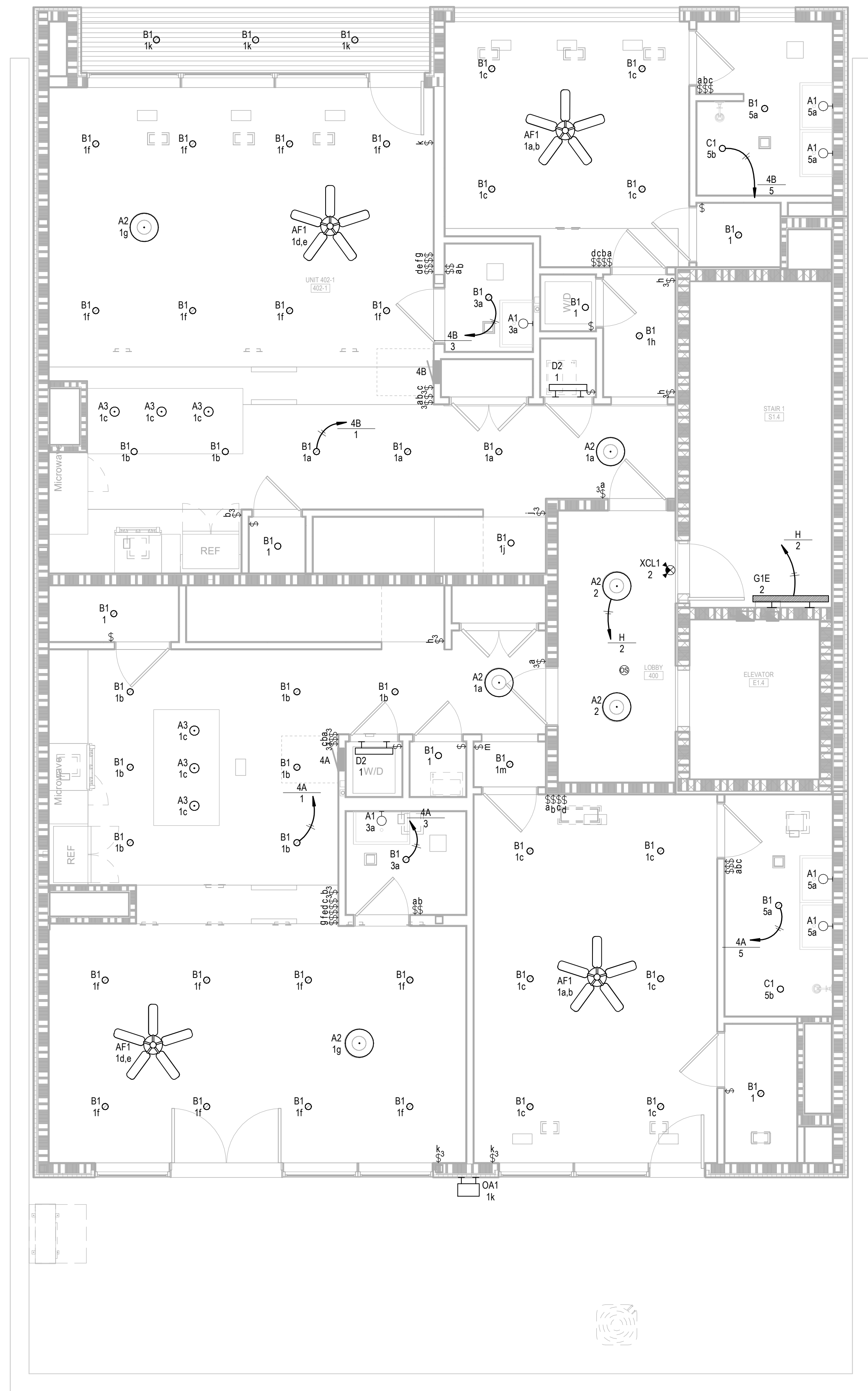
B ALL MOUNTING HEIGHTS FOR LIGHTING FIXTURES ARE TO THE BOTTOM OF THE FIXTURES UNLESS INDICATED OTHERWISE.

C SEE ARCHITECTURAL, EXTERIOR ELEVATIONS FOR MOUNTING HEIGHTS OF EXTERIOR LIGHTING FIXTURES.

D CIRCUIT WIRING IS NOT SHOWN. PROVIDE PROPER NUMBER OF CONDUCTORS TO ACHIEVE CIRCUITING AND SWITCHING SHOWN.

E CIRCUIT NUMBERS AT DEVICES CORRESPOND TO PANELBOARD BREAKERS (SEE PANELBOARD SCHEDULE). BRANCH CIRCUITS SHALL BE SIZED ACCORDING TO THE CIRCUIT BREAKER RATING, UNLESS INDICATED OTHERWISE ON THE ELECTRICAL EQUIPMENT SCHEDULE.

F WHERE WALL MOUNTED FIXTURES REQUIRE A LARGER BACKBOX FOR ELECTRONIC ITEMS SUCH AS AN EMERGENCY BATTERY, PROVIDE THE SAME LARGE SIZE BACKBOX FOR ALL FIXTURES OF THE SAME TYPE IN THE SPACE.



1 FOURTH FLOOR LIGHTING PLAN
E-104 1/4" = 1'-0"

AT
408 MARTIN LUTHER KING JR. BLVD.

FOURTH FLOOR LIGHTING PLAN

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LIGHTING SHEET NOTES

- A ALL RECESSED LIGHTING FIXTURES IN LAY-IN CEILINGS SHALL BE INSTALLED WITH 6' LONG FLEXIBLE METAL CONDUIT.
- B ALL MOUNTING HEIGHTS FOR LIGHTING FIXTURES ARE TO THE BOTTOM OF THE FIXTURES UNLESS INDICATED OTHERWISE.
- C SEE ARCHITECTURAL EXTERIOR ELEVATIONS FOR MOUNTING HEIGHTS OF EXTERIOR LIGHTING FIXTURES.
- D CIRCUIT WIRING IS NOT SHOWN. PROVIDE PROPER NUMBER OF CONDUCTORS TO ACHIEVE CIRCUITING AND SWITCHING SHOWN.
- E CIRCUIT NUMBERS AT DEVICES CORRESPOND TO PANELBOARD BREAKERS (SEE PANELBOARD SCHEDULE). BRANCH CIRCUITS SHALL BE SIZED ACCORDING TO THE CIRCUIT BREAKER RATING, UNLESS INDICATED OTHERWISE ON THE ELECTRICAL EQUIPMENT SCHEDULE.
- F WHERE WALL MOUNTED FIXTURES REQUIRE A LARGER BACKBOX FOR ELECTRONIC ITEMS SUCH AS AN EMERGENCY BATTERY, PROVIDE THE SAME LARGER SIZE BACKBOX FOR ALL FIXTURES OF THE SAME TYPE IN THE SPACE.

J.ELDER
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www.jelderstudio.com
30 W. Broughton Street,
Suite 201
Savannah, Georgia 31401
P 646.619.7494



ROOF TOP ADDITION

AT
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MEZZANINE LIGHTING PLAN

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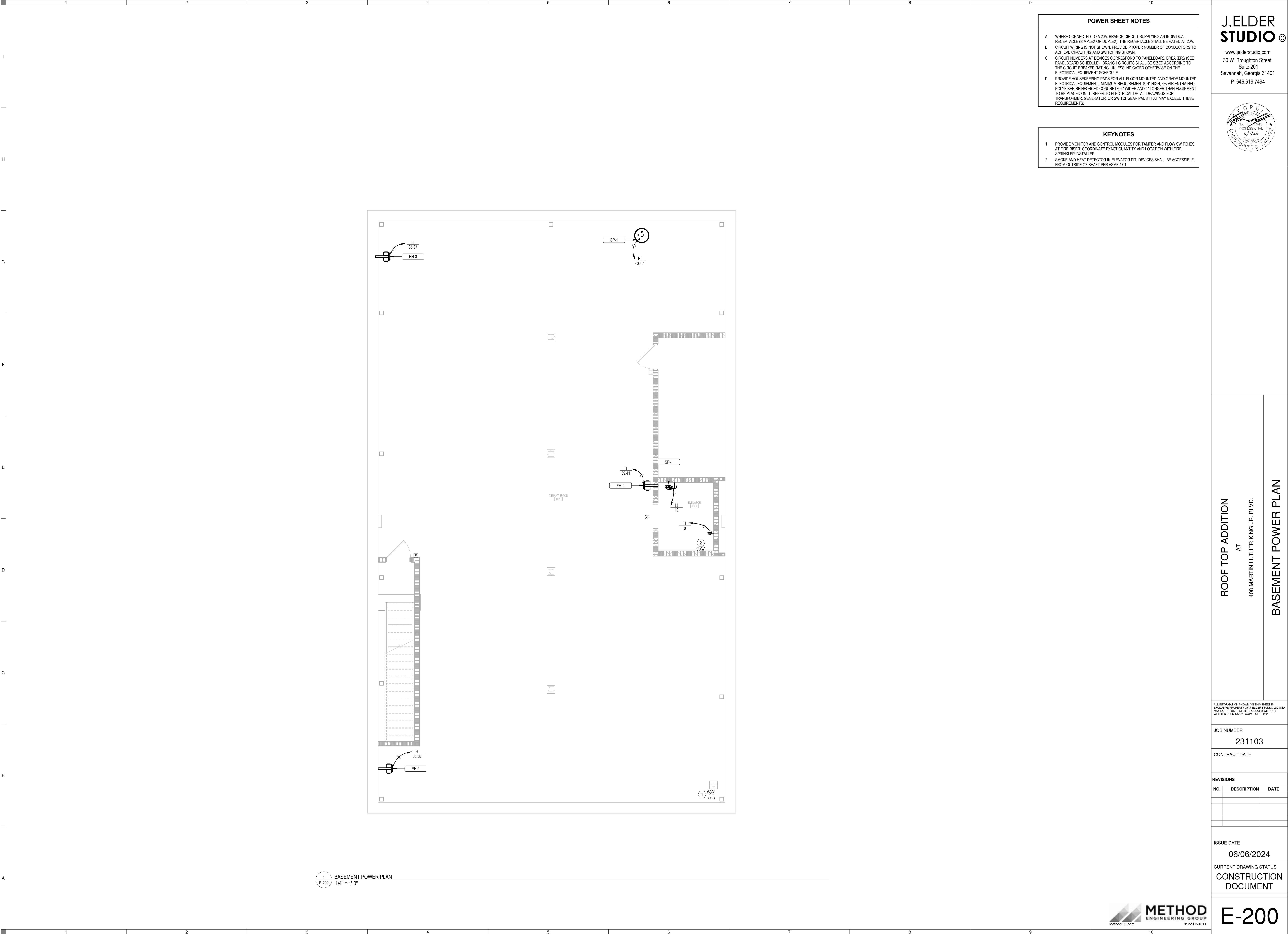
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E-105



POWER SHEET NOTES

- A WHERE CONNECTED TO A 20A. BRANCH CIRCUIT SUPPLYING AN INDIVIDUAL RECEPTACLE (SIMPLEX OR DUPLEX), THE RECEPTACLE SHALL BE RATED AT 20A.
- B CIRCUIT WIRING IS NOT SHOWN, PROVIDE PROPER NUMBER OF CONDUCTORS TO ACHIEVE CIRCUITING AND SWITCHING SHOWN.
- C CIRCUIT NUMBERS AT DEVICES CORRESPOND TO PANELBOARD BREAKERS (SEE PANELBOARD SCHEDULE). BRANCH CIRCUITS SHALL BE SIZED ACCORDING TO THE CIRCUIT BREAKER RATING, UNLESS INDICATED OTHERWISE ON THE ELECTRICAL EQUIPMENT SCHEDULE.
- D PROVIDE HOUSEKEEPING PADS FOR ALL FLOOR MOUNTED AND GRADE MOUNTED ELECTRICAL EQUIPMENT. MINIMUM REQUIREMENTS: 4" HIGH, 4% AIR ENTRAINED, POLYFIBER REINFORCED CONCRETE, 4" WIDER AND 4" LONGER THAN EQUIPMENT TO BE PLACED ON IT. REFER TO ELECTRICAL DETAIL DRAWINGS FOR TRANSFORMER, GENERATOR, OR SWITCHGEAR PADS THAT MAY EXCEED THESE REQUIREMENTS.

KEYNOTES

- 1 PROVIDE MONITOR AND CONTROL MODULES FOR TAMPER AND FLOW SWITCHES AT FIRE RISER. COORDINATE EXACT QUANTITY AND LOCATION WITH FIRE SPRINKLER INSTALLER.
- 2 SMOKE AND HEAT DETECTOR IN ELEVATOR PIT. DEVICES SHALL BE ACCESSIBLE FROM OUTSIDE OF SHAFT PER ASME 17.1

ROOF TOP ADDITION

AT

408 MARTIN LUTHER KING JR. BLVD.

BASEMENT POWER PLAN

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E-200

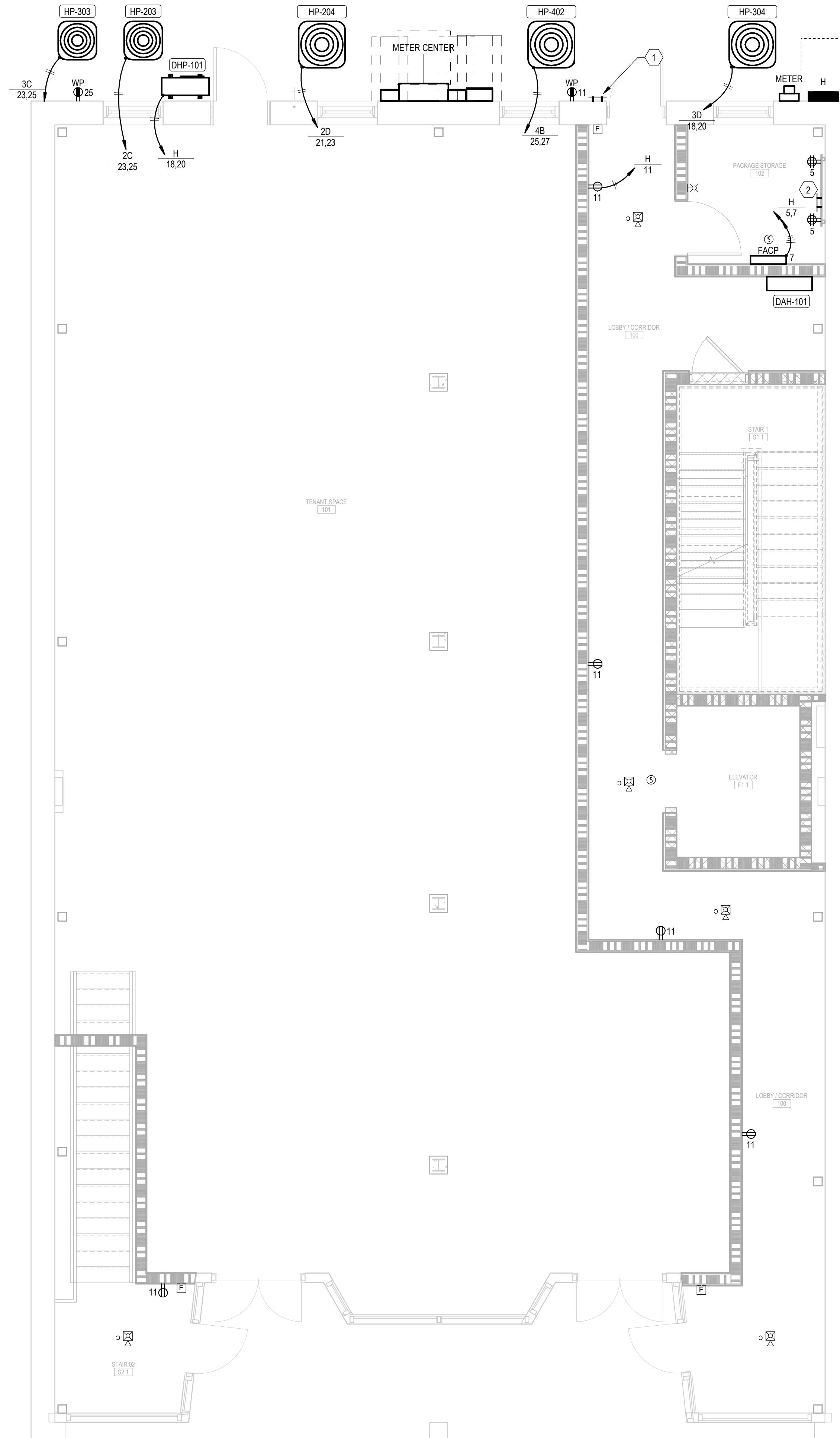


POWER SHEET NOTES

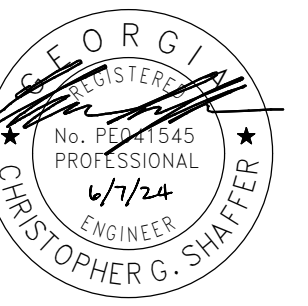
- A WHERE CONNECTED TO A 20A. BRANCH CIRCUIT SUPPLYING AN INDIVIDUAL RECEPTACLE (SIMPLEX OR DUPLEX), THE RECEPTACLE SHALL BE RATED AT 20A.
- B CIRCUIT WIRING IS NOT SHOWN. PROVIDE PROPER NUMBER OF CONDUCTORS TO ACHIEVE CIRCUITING AND SWITCHING SHOWN.
- C CIRCUIT NUMBERS AT DEVICES CORRESPOND TO PANELBOARD BREAKERS (SEE PANELBOARD SCHEDULE). BRANCH CIRCUITS SHALL BE SIZED ACCORDING TO THE CIRCUIT BREAKER RATING, UNLESS INDICATED OTHERWISE ON THE ELECTRICAL EQUIPMENT SCHEDULE.
- D PROVIDE HOUSEKEEPING PADS FOR ALL FLOOR MOUNTED AND GRADE MOUNTED ELECTRICAL EQUIPMENT. MINIMUM REQUIREMENTS: 4" HIGH, 4% AIR ENTRAINED, POLYMER REINFORCED CONCRETE, 4" WIDER AND 4" LONGER THAN EQUIPMENT TO BE PLACED ON IT. REFER TO ELECTRICAL DETAIL DRAWINGS FOR TRANSFORMER, GENERATOR, OR SWITCHGEAR PADS THAT MAY EXCEED THESE REQUIREMENTS.

KEYNOTES

- 1 PROVIDE INTERSYSTEM BONDING TERMINATION BAR FOR THE RESIDENTIAL TELECOMMUNICATION SYSTEMS.
- 2 PROVIDE 4X4X3/4" THICK PLYWOOD BACKBOARD WITH TWO COATS OF GRAY FIRE RETARDANT PAINT. PROVIDE TELECOMMUNICATIONS GROUND BAR. SEE DETAILS.



NO.	DESCRIPTION	DATE

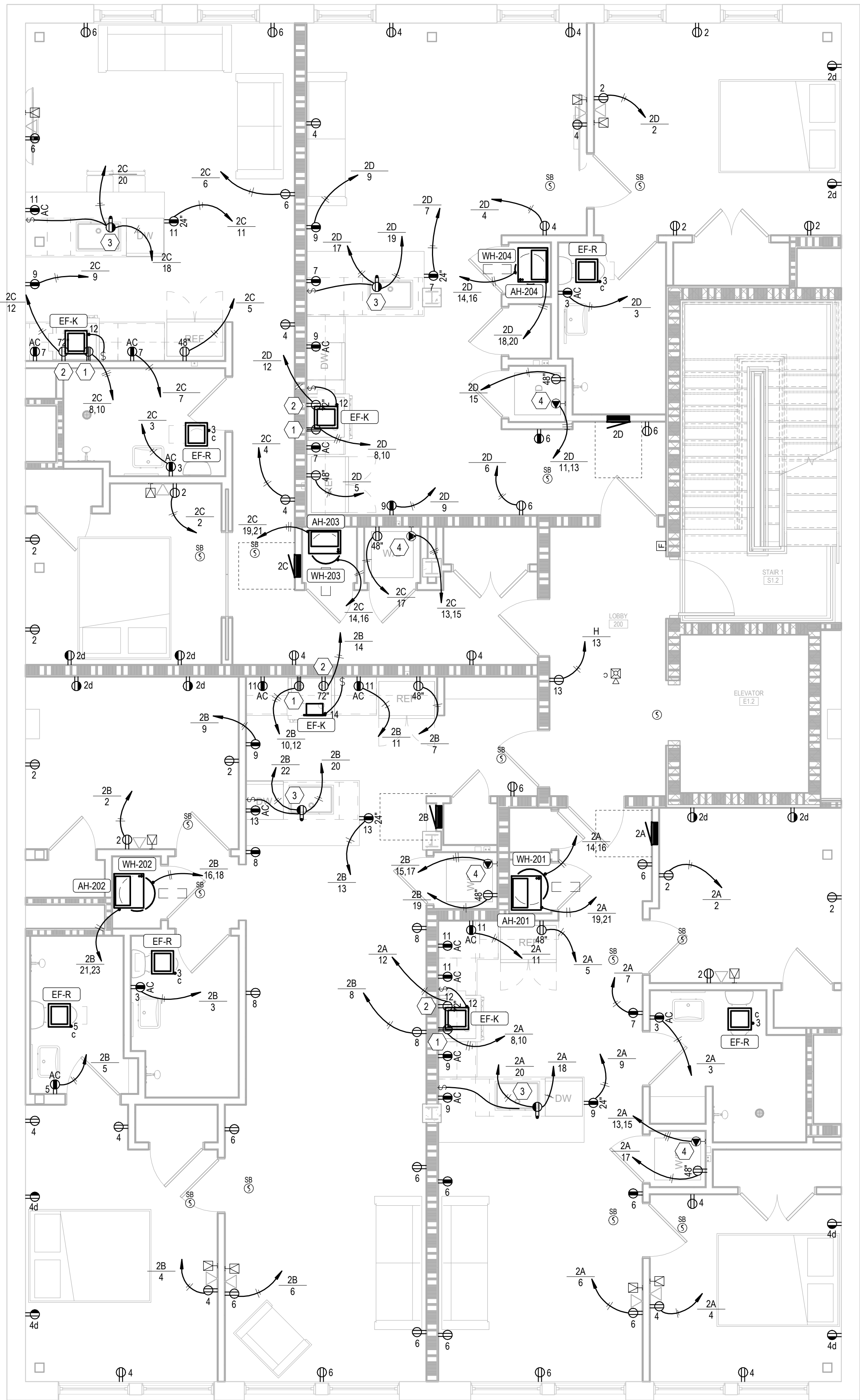


POWER SHEET NOTES

- A WHERE CONNECTED TO A 20A. BRANCH CIRCUIT SUPPLYING AN INDIVIDUAL RECEPTACLE (SIMPLEX OR DUPLEX), THE RECEPTACLE SHALL BE RATED AT 20A.
B CIRCUIT WIRING IS NOT SHOWN. PROVIDE PROPER NUMBER OF CONDUCTORS TO ACHIEVE CIRCUITING AND SWITCHING SHOWN.
C CIRCUIT NUMBERS AT DEVICES CORRESPOND TO PANELBOARD BREAKERS (SEE PANELBOARD SCHEDULE). BRANCH CIRCUITS SHALL BE SIZED ACCORDING TO THE CIRCUIT BREAKER RATING, UNLESS INDICATED OTHERWISE ON THE ELECTRICAL EQUIPMENT SCHEDULE.
D PROVIDE HOUSEKEEPING PADS FOR ALL FLOOR MOUNTED AND GRADE MOUNTED ELECTRICAL EQUIPMENT. MINIMUM REQUIREMENTS: 4" HIGH, 4% AIR ENTRAINED, POLYMER REINFORCED CONCRETE, 4" WIDER AND 4" LONGER THAN EQUIPMENT TO BE PLACED ON IT. REFER TO ELECTRICAL DETAIL DRAWINGS FOR TRANSFORMER, GENERATOR, OR SWITCHGEAR PADS THAT MAY EXCEED THESE REQUIREMENTS.

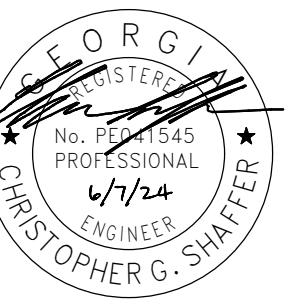
KEYNOTES

- 1 PROVIDE NEMA 14-50R RECEPTACLE WITH 3/8x10G FOR RANGE. COORDINATE MOUNTING HEIGHT WITH EQUIPMENT PROVIDED.
2 RECEPTACLE FOR MICROWAVE OR RANGE HOOD ABOVE RANGE. COORDINATE EXACT MOUNTING HEIGHT WITH INSTALLER.
3 RECEPTACLE MOUNTED BELOW SINK. SPLIT RECEPTACLE, BOTTOM HALF TO SERVE DISHWASHER AND TOP HALF TO BE SWITCHED AND SERVE GARBAGE DISPOSAL.
4 PROVIDE NEMA 14-30R RECEPTACLE WITH 3/10x10G FOR DRYER. COORDINATE CIRCUIT REQUIREMENTS AND CONNECTION TYPE WITH EQUIPMENT PROVIDED BEFORE ROUGH-IN.



1 SECOND FLOOR POWER PLAN
E-202 1/4" = 1'-0"

NO.	DESCRIPTION	DATE

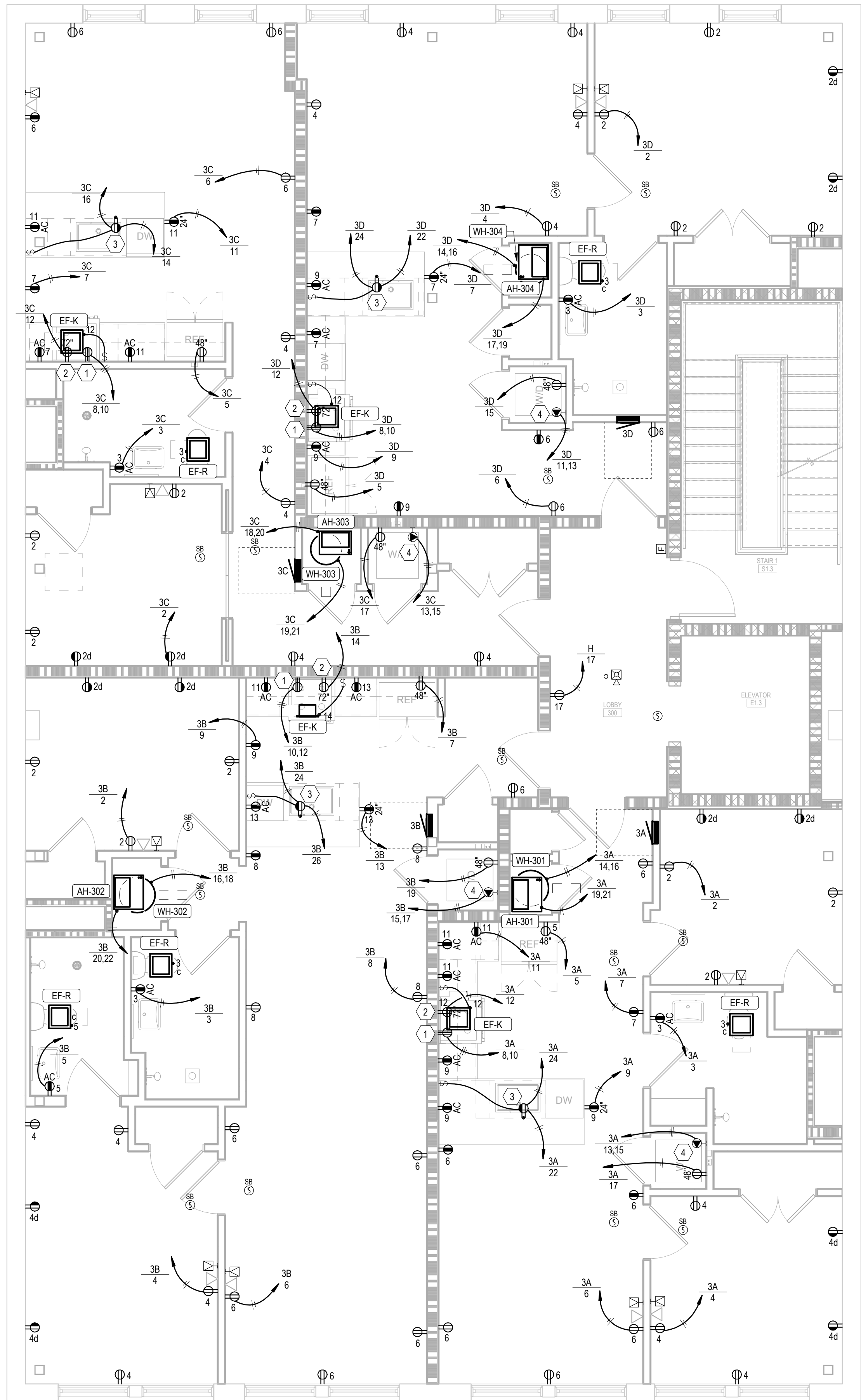


POWER SHEET NOTES

- A WHERE CONNECTED TO A 20A. BRANCH CIRCUIT SUPPLYING AN INDIVIDUAL RECEPTACLE (SIMPLEX OR DUPLEX), THE RECEPTACLE SHALL BE RATED AT 20A.
B CIRCUIT WIRING IS NOT SHOWN. PROVIDE PROPER NUMBER OF CONDUCTORS TO ACHIEVE CIRCUITING AND SWITCHING SHOWN.
C CIRCUIT NUMBERS AT DEVICES CORRESPOND TO PANELBOARD BREAKERS (SEE PANELBOARD SCHEDULE). BRANCH CIRCUITS SHALL BE SIZED ACCORDING TO THE CIRCUIT BREAKER RATING, UNLESS INDICATED OTHERWISE ON THE ELECTRICAL EQUIPMENT SCHEDULE.
D PROVIDE HOUSEKEEPING PADS FOR ALL FLOOR MOUNTED AND GRADE MOUNTED ELECTRICAL EQUIPMENT. MINIMUM REQUIREMENTS: 4" HIGH, 4% AIR ENTRAINED, POLYMER REINFORCED CONCRETE, 4" WIDER AND 4" LONGER THAN EQUIPMENT TO BE PLACED ON IT. REFER TO ELECTRICAL DETAIL DRAWINGS FOR TRANSFORMER, GENERATOR, OR SWITCHGEAR PADS THAT MAY EXCEED THESE REQUIREMENTS.

KEYNOTES

- 1 PROVIDE NEMA 14-50R RECEPTACLE WITH 3/8".10G FOR RANGE. COORDINATE MOUNTING HEIGHT WITH EQUIPMENT PROVIDED.
2 RECEPTACLE FOR MICROWAVE OR RANGE HOOD ABOVE RANGE. COORDINATE EXACT MOUNTING HEIGHT WITH INSTALLER.
3 RECEPTACLE MOUNTED BELOW SINK. SPLIT RECEPTACLE, BOTTOM HALF TO SERVE DISHWASHER AND TOP HALF TO BE SWITCHED AND SERVE GARBAGE DISPOSAL.
4 PROVIDE NEMA 14-30R RECEPTACLE WITH 3/10".10G FOR DRYER. COORDINATE CIRCUIT REQUIREMENTS AND CONNECTION TYPE WITH EQUIPMENT PROVIDED BEFORE ROUGH-IN.



1 THIRD FLOOR POWER PLAN
E-203 1/4" = 1'-0"

ROOF TOP ADDITION

AT
408 MARTIN LUTHER KING JR. BLVD.

THIRD FLOOR POWER PLAN

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POWER SHEET NOTES

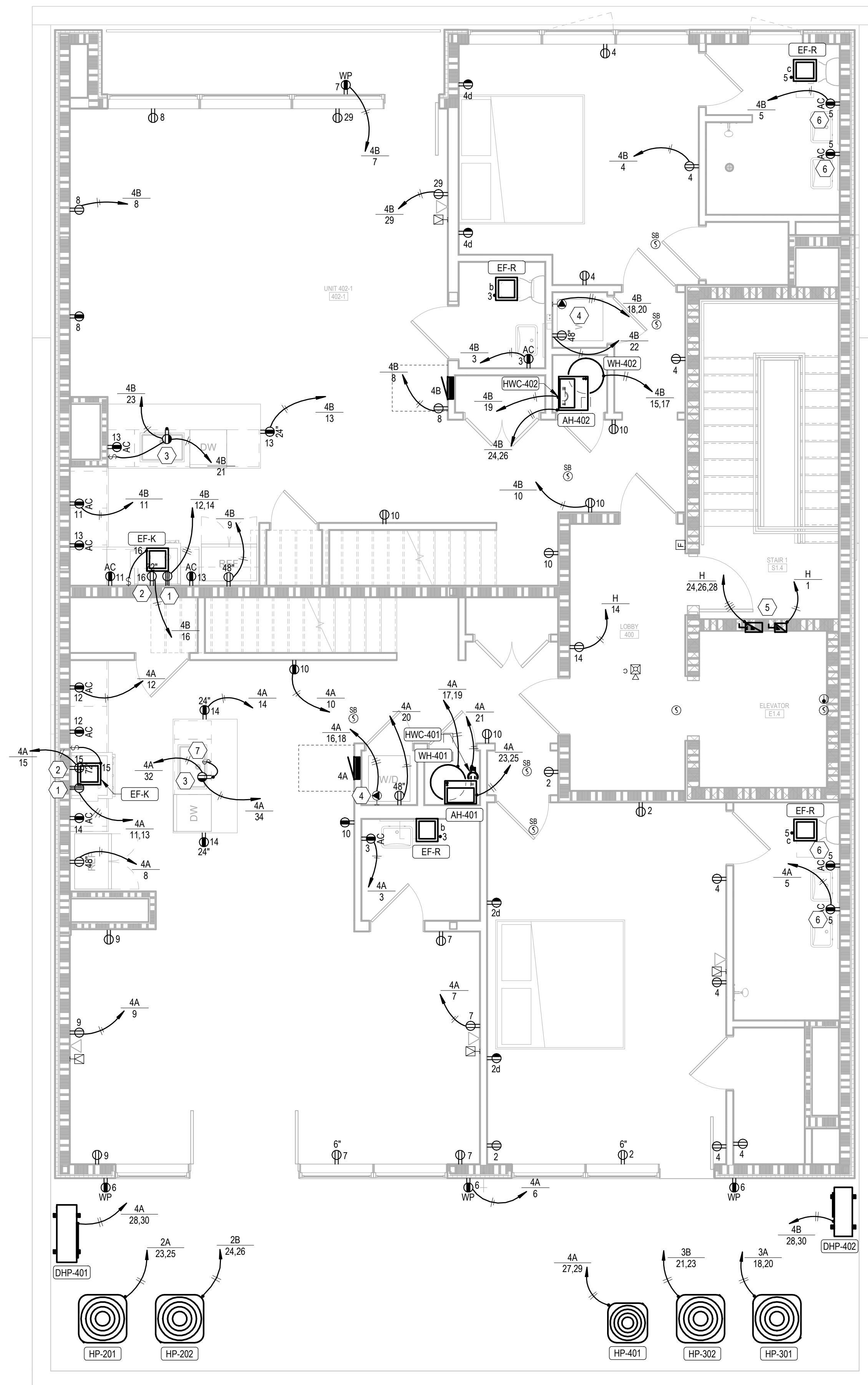
- A WHERE CONNECTED TO A 20A. BRANCH CIRCUIT SUPPLYING AN INDIVIDUAL RECEPTACLE (SIMPLEX OR DUPLEX), THE RECEPTACLE SHALL BE RATED AT 20A.
- B CIRCUIT WIRING IS NOT SHOWN. PROVIDE PROPER NUMBER OF CONDUCTORS TO ACHIEVE CIRCUITING AND SWITCHING SHOWN.
- C CIRCUIT NUMBERS AT DEVICES CORRESPOND TO PANELBOARD BREAKERS (SEE PANELBOARD SCHEDULE). BRANCH CIRCUITS SHALL BE SIZED ACCORDING TO THE CIRCUIT BREAKER RATING, UNLESS INDICATED OTHERWISE ON THE ELECTRICAL EQUIPMENT SCHEDULE.
- D PROVIDE HOUSEKEEPING PADS FOR ALL FLOOR MOUNTED AND GRADE MOUNTED ELECTRICAL EQUIPMENT. MINIMUM REQUIREMENTS: 4" HIGH, 4% AIR ENTRAINED, POLYMER REINFORCED CONCRETE, 4" WIDER AND 4" LONGER THAN EQUIPMENT TO BE PLACED ON IT. REFER TO ELECTRICAL DETAIL DRAWINGS FOR TRANSFORMER, GENERATOR, OR SWITCHGEAR PADS THAT MAY EXCEED THESE REQUIREMENTS.

ADDITIONAL ROOF POWER SHEET NOTES

- A WHERE BRANCH CIRCUITS TO EQUIPMENT ARE INSTALLED HORIZONTALLY ABOVE THE ROOF, PROVIDE ROOF SUPPORTS SUCH THAT CONDUITS ARE INSTALLED APPROXIMATELY 6" ABOVE ROOF. BASIS OF DESIGN ROOF SUPPORT SHALL BE EATON DURA-BLOK. CONDUCTORS AMPACITIES INCLUDING EQUIPMENT GROUNDING CONDUCTOR, SHALL BE INCREASED BY 10% AND A MINIMUM ONE SIZE ABOVE WHAT IS INDICATED ON EQUIPMENT CONNECTIONS SCHEDULE. CONDUIT SHALL BE INCREASED AS NECESSARY FOR NEW SIZE CONDUCTORS PER NEC FILL CAPACITIES.
- B COORDINATE WITH DIV. 23 FOR LOCATIONS OF EQUIPMENT AND MOUNTING OF RECEPTACLES TO EQUIPMENT OR SUPPORT STRUCTURES. PROVIDE ADDITIONAL RECEPTACLES ON SAME RECEPTACLE CIRCUIT AS REQUIRED TO HAVE A RECEPTACLE WITHIN 25' OF ALL EQUIPMENT.

KEYNOTES

- 1 PROVIDE NEMA 14-50R RECEPTACLE WITH 3/8x10G FOR RANGE. COORDINATE MOUNTING HEIGHT WITH EQUIPMENT PROVIDED.
- 2 RECEPTACLE FOR MICROWAVE OR RANGE HOOD ABOVE RANGE. COORDINATE EXACT MOUNTING HEIGHT WITH INSTALLER.
- 3 RECEPTACLE MOUNTED BELOW SINK. SPLIT RECEPTACLE, BOTTOM HALF TO SERVE DISHWASHER AND TOP HALF TO BE SWITCHED AND SERVE GARBAGE DISPOSAL.
- 4 PROVIDE NEMA 14-30R RECEPTACLE WITH 3/10x10G FOR DRYER. COORDINATE CIRCUIT REQUIREMENTS AND CONNECTION TYPE WITH EQUIPMENT PROVIDED BEFORE ROUGH-IN.
- 5 PROVIDE 100A/100F/3P/2R FUSIBLE SAFETY SWITCH FOR ELEVATOR EQUIPMENT CONNECTION AND 30A/30F/1P/2R FUSIBLE SAFETY SWITCH FOR ELEVATOR CAB LIGHTS.
- 6 COORDINATE EXACT LOCATION OF RECEPTACLE OUTLETS WITH MIRROR(S) AND CABINETRY. RECEPTACLE LOCATIONS SHALL MEET THE REQUIREMENTS OF NEC 210.52 (D).
- 7 GARBAGE DISPOSAL SWITCH WILL BE A PUSHBUTTON SWITCH MOUNTED ON COUNTERTOP NEAR SINK. COORDINATE WITH ARCHITECT.



ROOF TOP ADDITION

AT

408 MARTIN LUTHER KING JR. BLVD.

FOURTH FLOOR POWER PLAN

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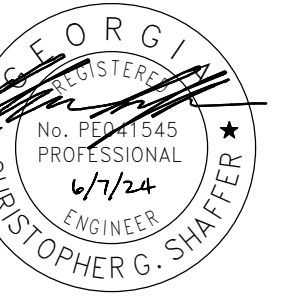
NO.	DESCRIPTION	DATE

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06/06/2024

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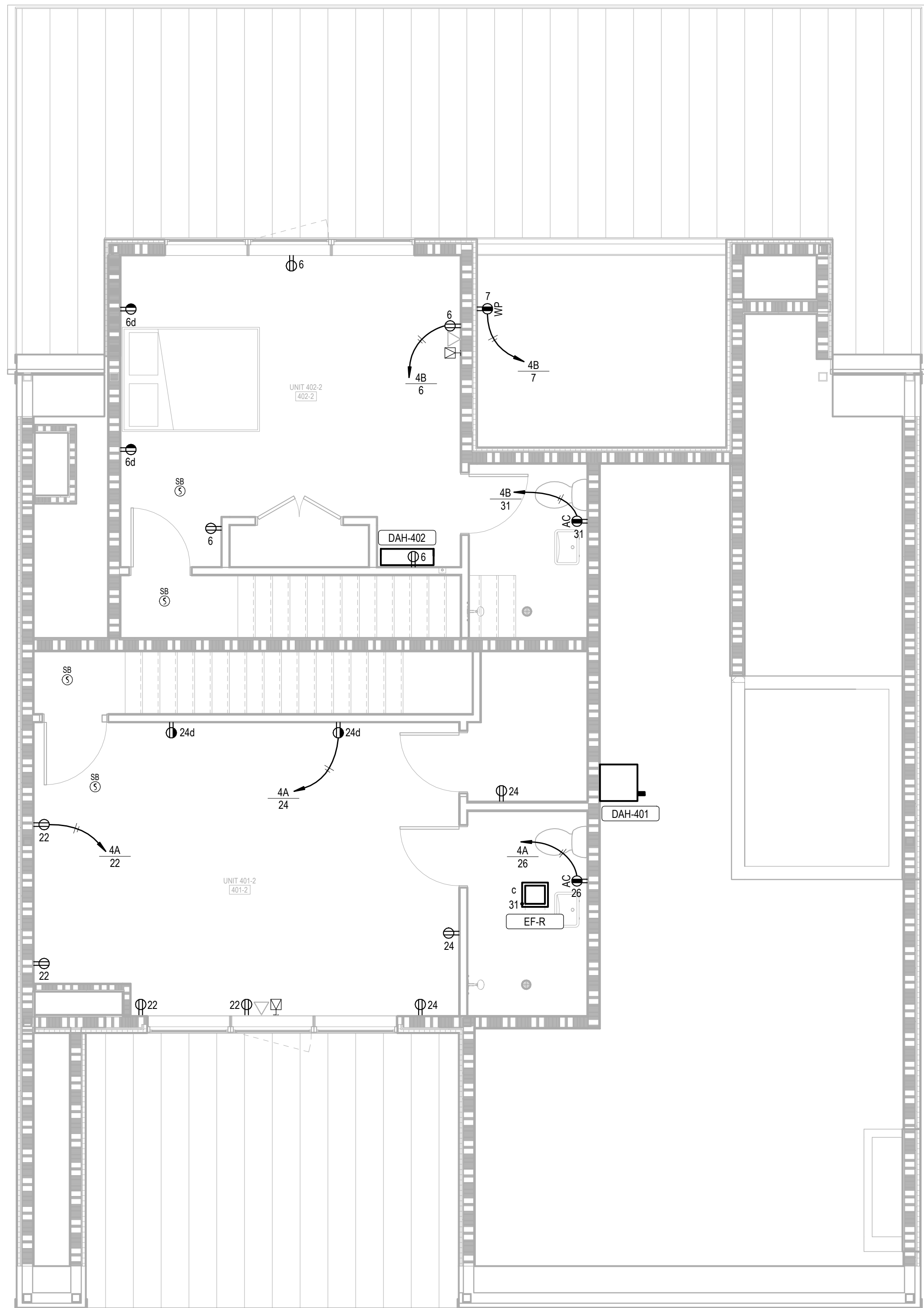


A WHERE CONNECTED TO A 20A. BRANCH CIRCUIT SUPPLYING AN INDIVIDUAL RECEPTACLE (SIMPLEX OR DUPLICATION), THE RECEPTACLE SHALL BE RATED AT 20A.

B CIRCUIT WIRING IS NOT SHOWN, PROVIDE PROPER NUMBER OF CONDUCTORS TO ACQUIRE THE CORRECT CIRCULATING CURRENT.

C CIRCUIT NUMBERS THAT DOESN'T CORRESPOND TO PANELBOARD BREAKERS (SEE PANELBOARD SCHEDULE). BRANCH CIRCUITS SHALL BE SIZED ACCORDING TO THE CIRCUIT BREAKER RATING, UNLESS INDICATED OTHERWISE ON THE ELECTRICAL EQUIPMENT SCHEDULE.

D PROVIDE HOUSEKEEPING PADS FOR ALL FLOOR MOUNTED AND GRADE MOUNTED ELECTRICAL EQUIPMENT. MINIMUM REQUIREMENTS: 4" HIGH, 4" AIR ENTRAINED, POLYURETHANE FORTIFIED CONCRETE, 4" WIDER AND 4" LONGER THAN EQUIPMENT TO BE PLACED ON IT. REFER TO ELECTRICAL DETAIL DRAWINGS FOR TRANSFORMER, GENERATOR, OR SWITCHGEAR PADS THAT MAY EXCEED THESE REQUIREMENTS.



1 MEZZANINE POWER PLAN
E-205 1/4" = 1'-0"

ROOF TOP ADDITION

AT
408 MARTIN LUTHER KING JR. BLVD.

MEZZANINE POWER PLAN

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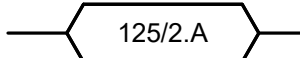
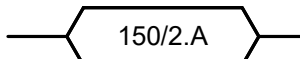
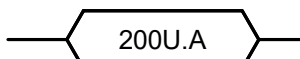
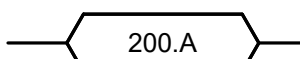
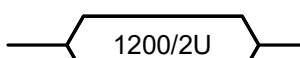
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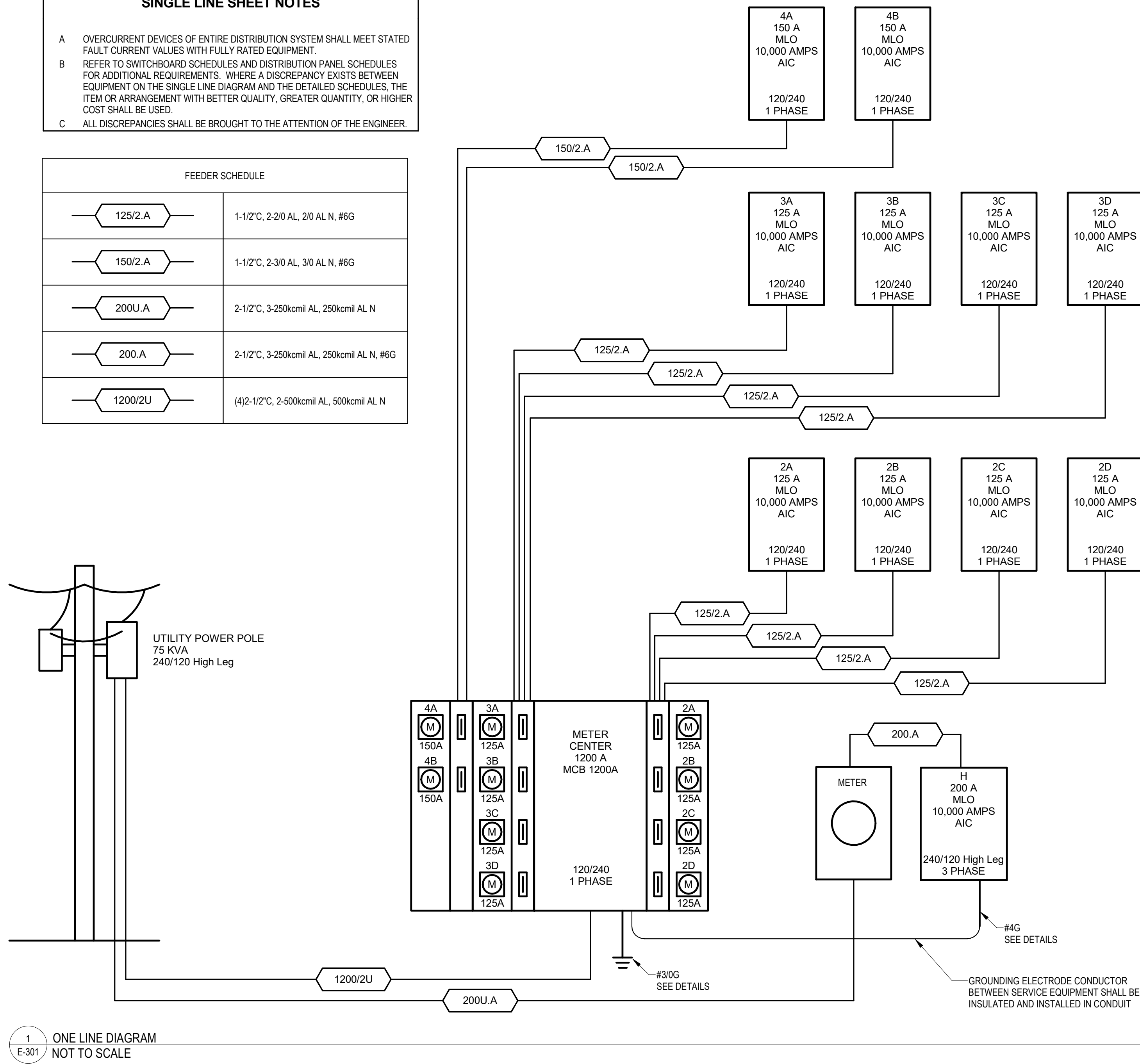
SINGLE LINE SHEET NOTES

A OVERCURRENT DEVICES OF ENTIRE DISTRIBUTION SYSTEM SHALL MEET STATED FAULT CURRENT VALUES WITH FULLY RATED EQUIPMENT.

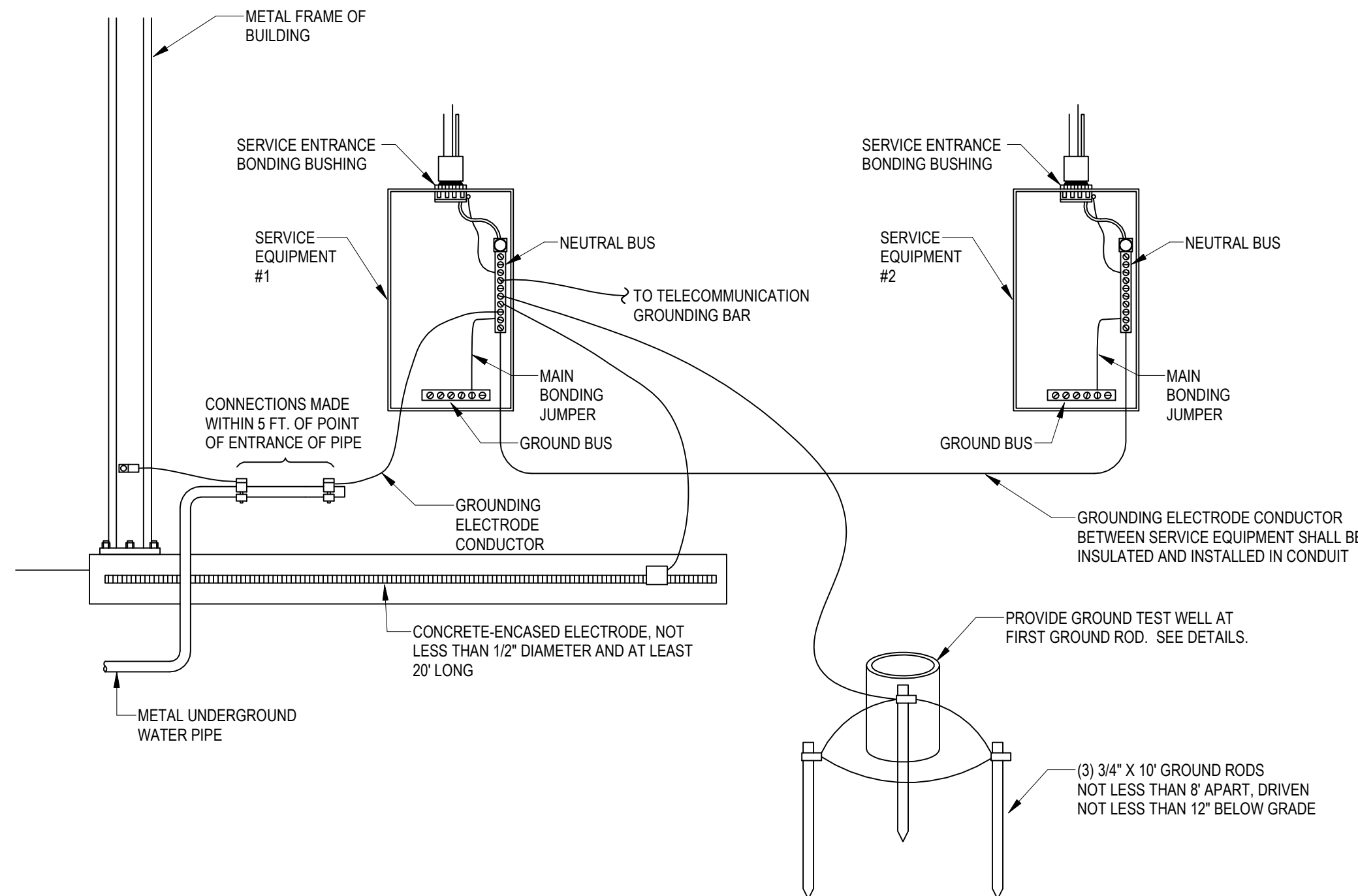
B REFER TO SWITCHBOARD SCHEDULES AND DISTRIBUTION PANEL SCHEDULES FOR ADDITIONAL REQUIREMENTS. WHERE A DISCREPANCY EXISTS BETWEEN EQUIPMENT ON THE SINGLE LINE DIAGRAM AND THE DETAILED SCHEDULES, THE ITEM OR ARRANGEMENT WITH BETTER QUALITY, GREATER QUANTITY, OR HIGHER COST SHALL BE USED.

C ALL DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER.

FEEDER SCHEDULE	
	1-1/2"C, 2-20 AL, 20 AL N, #6G
	1-1/2"C, 2-30 AL, 30 AL N, #6G
	2-1/2"C, 3-250kcmil AL, 250kcmil AL N
	2-1/2"C, 3-250kcmil AL, 250kcmil AL N, #6G
	(4)2-1/2"C, 2-500kcmil AL, 500kcmil AL N



1 ONE LINE DIAGRAM
NOT TO SCALE

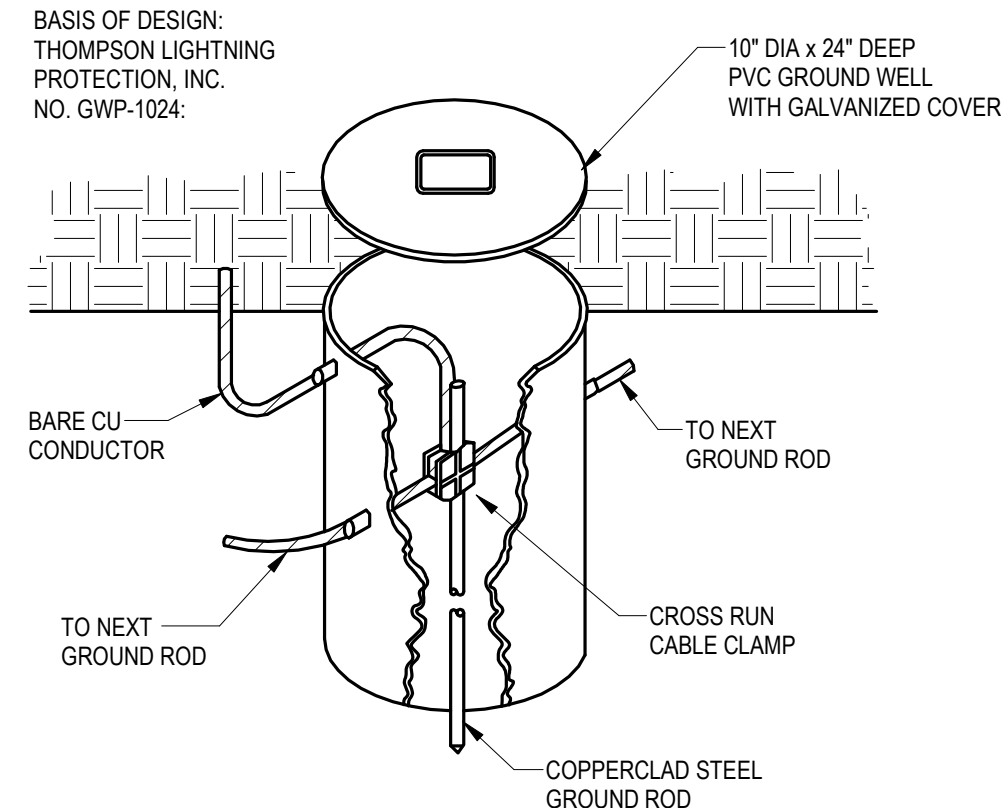


2 SERVICE GROUNDING DETAIL
NOT TO SCALE

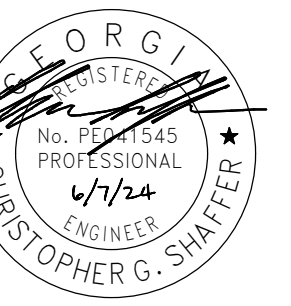
ELECTRICAL SYSTEM GROUNDING NOTES

ONE OF THE MOST IMPORTANT PARTS IN THE INSTALLATION OF ELECTRICAL SYSTEMS IS GROUNDING. PROPER GROUNDING WILL PROVIDE PROTECTION OF PERSONNEL, EQUIPMENT, AND CIRCUITS BY ELIMINATING THE POSSIBILITY OF DANGEROUS OR EXCESSIVE VOLTAGES.

- GROUNDING SYSTEM MUST BE IN ACCORDANCE WITH APPLICABLE NATIONAL, STATE OR LOCAL ELECTRICAL CODES.
- THE GROUND PATH MUST BE PERMANENT AND CONTINUOUS, AND THE RESISTANCE OF THE GROUND PATHS MUST NOT EXCEED 25 OHMS.
- ALL GROUNDING ELECTRODES OF DIFFERENT SYSTEMS MUST BE BONDED TOGETHER.
- METALLIC CONDUIT USED TO ENCLOSE A GROUNDING CONDUCTOR MUST BE BONDED TO THE GROUNDING CONDUCTOR AT BOTH ENDS TO REDUCE IMPEDANCE.
- RECEPTACLE BOXES MUST BE GROUNDING BY RACEWAY BACK TO THE GROUNDING PANEL.
- IF FLEXIBLE OR PVC CONDUIT IS USED, OR WHERE REQUIRED BY LOCAL CODE, THEN A SEPARATE MECHANICAL GROUND WIRE MUST CONNECT THE OUTLET BOX TO THE PANEL MECHANICAL GROUND BUS.



3 GROUND ACCESS WELL DETAIL
NOT TO SCALE



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JOB NUMBER
231103

CONTRACT DATE

NO.	DESCRIPTION	DATE

ISSUE DATE
06/06/2024

CURRENT DRAWING STATUS
CONSTRUCTION
DOCUMENT

Branch Panel: H

Location: Supply From: METER Mounting: SURFACE Enclosure: NEMA 3R

Volts: 240/120 High Leg Phases: 3 Wires: 4

A.I.C. Rating: 10,000 AMPS Mains Type: MLO Mains Rating: 200 A Ground Bus: Yes

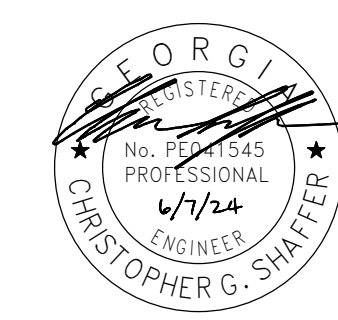
Notes:
GF - PROVIDE GROUND FAULT INTERRUPTING TYPE BRANCH CIRCUIT BREAKER.

CCT	Circuit Description	Bkr Type	Rating	Poles	A	B	C	Poles	Rating	Bkr Type	Circuit Description	CCT	
1	ELEV CAB LIGHTS	20 A	1	500	1421			1	20 A		LIGHTS	2	
3	HIGH LEG	20 A	1			--	--				HIGH LEG	4	
5	RCPT PACKAGE STORAGE 202 16	20 A	1				720	28	1	20 A	LIGHTS ELEVATOR E1.1	6	
7	FACP	20 A	1	500	180	--	--		1	20 A	RCPT ELEVATOR E1.1	8	
9	HIGH LEG	20 A	1								HIGH LEG	10	
11	RCPT	20 A	1				1080	0	1	20 A		12	
13	RCPT LOBBY 200	20 A	1	180	180	--	--		1	20 A	RCPT LOBBY 400	14	
15	HIGH LEG	20 A	1			--	--		1	20 A	HIGH LEG	16	
17	RCPT LOBBY 300	20 A	1				180	923	2	20 A	DHP-101	18	
19	SP-1	GF	20 A	1	1176	923	--	--	1	--	HIGH LEG	20	
21	HIGH LEG	20 A	1			--	--		1	--	HIGH LEG	22	
23	LIGHTS	20 A	1				817	7482				24	
25	RCPT	20 A	1	180	7482	--	7482		3	70 A	ELEV	26	
27	HIGH LEG	--	1			--	7482					28	
29	EXTERIOR LIGHTS	20 A	1					52	--	1	--	SHUNT TRIP	30
31												32	
33	HIGH LEG	--	1			--	--		1	--	HIGH LEG	34	
35	EH-3	30 A	2	2500	2500		2500	2500	2	30 A	EH-1	36	
37												38	
39	EH-2	30 A	2			2500	2064	2500	2	25 A	GF	40	
41								2064			GP-1	42	
Total Load:					17722 VA		12046 VA						
Total Amps:					148 A		100 A						
Load Classification		Connected Load		Demand Factor		Estimated Demand		Panel Totals					
Lighting		675 VA		125.00%		844 VA							
MTR		3522 VA		113.10%		3983 VA		Total Conn. Load: 50614 VA					
SPEC		500 VA		100.00%		500 VA		Total Est. Demand: 51655 VA					
HEAT		19128 VA		100.00%		19128 VA		Total Conn.: 122 A					
L		0 VA		0.00%		0 VA		Total Est. Demand: 124 A					
RCPT		2700 VA		100.00%		2700 VA							
LIGHTS		1642 VA		125.00%		2053 VA							

Notes:

ELECTRICAL EQUIPMENT SCHEDULE

EQUIPMENT INFORMATION										CIRCUIT INFORMATION		CONTROL		DISCONNECT				NOTES	ID
ID	WATTAGE	FLA	MCA	MOPC	VOLT	PH	PANEL	NO.	WIRE & CONDUIT SIZE	DESCRIPTION	FURNISH	INSTALL	DESCRIPTION	FURNISH	INSTALL				
Air Handling Unit																			
AH-201	5647 W	23.5 A	29.5 A	30 A	240 V	1	2A	19,21	2#10,#10G,1/2"	DIV 23 - THERMOSTAT	DIV 23	DIV 23	DIV 26 - NON-FUSED SWITCH NEMA 1	DIV 26	DIV 26		AH-201		
AH-202	5647 W	23.5 A	29.5 A	30 A	240 V	1	2B	21,23	2#10,#10G,1/2"	DIV 23 - THERMOSTAT	DIV 23	DIV 23	DIV 26 - NON-FUSED SWITCH NEMA 1	DIV 26	DIV 26		AH-202		
AH-203	5455 W	22.7 A	28.5 A	30 A	240 V	1	2C	19,21	2#10,#10G,1/2"	DIV 23 - THERMOSTAT	DIV 23	DIV 23	DIV 26 - NON-FUSED SWITCH NEMA 1	DIV 26	DIV 26		AH-203		
AH-204	5647 W	23.5 A	29.5 A	30 A	240 V	1	2D	18,20	2#10,#10G,1/2"	DIV 23 - THERMOSTAT	DIV 23	DIV 23	DIV 26 - NON-FUSED SWITCH NEMA 1	DIV 26	DIV 26		AH-204		
AH-301	5647 W	23.5 A	29.5 A	30 A	240 V	1	3A	19,21	2#10,#10G,1/2"	DIV 23 - THERMOSTAT	DIV 23	DIV 23	DIV 26 - NON-FUSED SWITCH NEMA 1	DIV 26	DIV 26		AH-301		
AH-302	5647 W	23.5 A	29.5 A	30 A	240 V	1	3B	20,22	2#10,#10G,1/2"	DIV 23 - THERMOSTAT	DIV 23	DIV 23	DIV 26 - NON-FUSED SWITCH NEMA 1	DIV 26	DIV 26		AH-302		
AH-303	5455 W	22.7 A	28.5 A	30 A	240 V	1	3C	18,20	2#10,#10G,1/2"	DIV 23 - THERMOSTAT	DIV 23	DIV 23	DIV 26 - NON-FUSED SWITCH NEMA 1	DIV 26	DIV 26		AH-303		
AH-401	5647 W	23.5 A	29.5 A	30 A	240 V	1	4A	23,25	2#10,#10G,1/2"	DIV 23 - THERMOSTAT	DIV 23	DIV 23	DIV 26 - NON-FUSED SWITCH NEMA 1	DIV 26	DIV 26		AH-401		
AH-402	5647 W	23.5 A	29.5 A	30 A	240 V	1	4B	24,26	2#10,#10G,1/2"	DIV 23 - THERMOSTAT	DIV 23	DIV 23	DIV 26 - NON-FUSED SWITCH NEMA 1	DIV 26	DIV 26		AH-402		
Circulating Pump																			
HWC-401	864 W	7.2 A	9.0 A	15 A	120 V	1	4A	21	2#12,#12G,1/2"	DIV 22 - AQUASTAT	DIV 22	DIV 22	DIV 26 - MOTOR RATED SWITCH	DIV 26	DIV 26		HWC-401		
HWC-402	864 W	7.2 A	9.0 A	15 A	120 V	1	4B	19	2#12,#12G,1/2"	DIV 22 - AQUASTAT	DIV 22	DIV 22	DIV 26 - MOTOR RATED SWITCH	DIV 26	DIV 26		HWC-402		
Ductless Heat Pump																			
DHP-101 / DAH-101	1846 W	7.7 A	11.0 A	15 A	240 V	1	H	18,20	2#12,#12G,1/2"	DIV 23 - THERMOSTAT	DIV 23	DIV 23	DIV 26 - NON-FUSED SWITCH NEMA 3R	DIV 26	DIV 26	OUTDOOR UNIT FEEDS INDOOR UNIT, CONTRACTOR TO PROVIDE MOTOR RATED SWITCH ADJACENT TO INDOOR UNIT FOR DISCONNECTING MEANS.	DHP-101 / DAH-101		
DHP-401 / DAH-401	2568 W	10.7 A	18.0 A	25 A	240 V	1	4A	28,30	2#10,#10G,1/2"	DIV 23 - THERMOSTAT	DIV 23	DIV 23	DIV 26 - NON-FUSED SWITCH NEMA 3R	DIV 26	DIV 26	OUTDOOR UNIT FEEDS INDOOR UNIT, CONTRACTOR TO PROVIDE MOTOR RATED SWITCH ADJACENT TO INDOOR UNIT FOR DISCONNECTING MEANS.	DHP-401 / DAH-401		
DHP-402 / DAH-402	1846 W	7.7 A	11.0 A	15 A	240 V	1	4B	28,30	2#12,#12G,1/2"	DIV 23 - THERMOSTAT	DIV 23	DIV 23	DIV 26 - NON-FUSED SWITCH NEMA 3R	DIV 26	DIV 26	OUTDOOR UNIT FEEDS INDOOR UNIT, CONTRACTOR TO PROVIDE MOTOR RATED SWITCH ADJACENT TO INDOOR UNIT FOR DISCONNECTING MEANS.	DHP-402 / DAH-402		
Electric Heater																			
EH-1	5000 W	20.8 A	26.0 A	30 A	240 V	1	H	36,38	2#10,#10G,1/2"	DIV 23 - THERMOSTAT	DIV 23	DIV 23	DIV 26 - NON-FUSED SWITCH NEMA 1	DIV 26	DIV 26		EH-1		
EH-2	5000 W	20.8 A	26.0 A	30 A	240 V	1	H	39,41	2#10,#10G,1/2"	DIV 23 - THERMOSTAT	DIV 23	DIV 23	DIV 26 - NON-FUSED SWITCH NEMA 1	DIV 26	DIV 26		EH-2		
EH-3	5000 W	20.8 A	26.0 A	30 A	240 V	1	H	35,37	2#10,#10G,1/2"	DIV 23 - THERMOSTAT	DIV 23	DIV 23	DIV 26 - NON-FUSED SWITCH NEMA 1	DIV 26	DIV 26		EH-3		
Elevator																			
ELEV CAB LTS	500 W	4.2 A	5.2 A	20 A	120 V	1	H	1	2#12,#12G,1/2"	MANUF. - AUTOMATIC CONTROLLER	MANUF.	DIV 23	DIV 26 - NON-FUSED SWITCH NEMA 3R	DIV 26	DIV 26		ELEV CAB LTS		
ELEVATOR	22447 W	54.0 A	67.5 A	70 A	240 V	3	H	24,26,28	3#4,#10G,1"	MANUF. - AUTOMATIC CONTROLLER	MANUF.	DIV 23	DIV 26 - NON-FUSED SWITCH NEMA 3R	DIV 26	DIV 26		ELEVATOR		
Exhaust Fan																			
EF-K	18 W	0.2 A	0.2 A	20 A	120 V	1	2C	12	2#12,#12G,1/2"	DIV 26 - MANUAL SWITCH	DIV 26	DIV 26	DIV 26 - MOTOR RATED SWITCH	DIV 26	DIV 26		EF-K		
EF-K	18 W	0.2 A	0.2 A	20 A	120 V	1	2D	12	2#12,#12G,1/2"	DIV 26 - MANUAL SWITCH	DIV 26	DIV 26	DIV 26 - MOTOR RATED SWITCH	DIV 26	DIV 26		EF-K		
EF-K	18 W	0.2 A	0.2 A	20 A	120 V	1	2B	14	2#12,#12G,1/2"	DIV 26 - MANUAL SWITCH	DIV 26	DIV 26	DIV 26 - MOTOR RATED SWITCH	DIV 26	DIV 26		EF-K		
EF-K	18 W	0.2 A	0.2 A	20 A	120 V	1	2A	12	2#12,#12G,1/2"	DIV 26 - MANUAL SWITCH	DIV 26	DIV 26	DIV 26 - MOTOR RATED SWITCH	DIV 26	DIV 26		EF-K		
EF-K	18 W	0.2 A	0.2 A	20 A	120 V	1	3C	12	2#12,#12G,1/2"	DIV 26 - MANUAL SWITCH	DIV 26	DIV 26	DIV 26 - MOTOR RATED SWITCH	DIV 26	DIV 26		EF-K		
EF-K	18 W	0.2 A	0.2 A	20 A	120 V	1	3D	12	2#12,#12G,1/2"	DIV 26 - MANUAL SWITCH	DIV 26	DIV 26	DIV 26 - MOTOR RATED SWITCH	DIV 26	DIV 26		EF-K		
EF-K	18 W	0.2 A	0.2 A	20 A	120 V	1	3B	14	2#12,#12G,1/2"	DIV 26 - MANUAL SWITCH	DIV 26	DIV 26	DIV 26 - MOTOR RATED SWITCH	DIV 26	DIV 26		EF-K		
EF-K	18 W	0.2 A	0.2 A	20 A	120 V	1	3A	12	2#12,#12G,1/2"	DIV 26 - MANUAL SWITCH	DIV 26	DIV 26	DIV 26 - MOTOR RATED SWITCH	DIV 26	DIV 26		EF-K		
EF-K	18 W	0.2 A	0.2 A	20 A	120 V	1	4B	16	2#12,#12G,1/2"	DIV 26 - MANUAL SWITCH	DIV 26	DIV 26	DIV 26 - MOTOR RATED SWITCH	DIV 26	DIV 26		EF-K		
EF-K	18 W	0.2 A	0.2 A	20 A	120 V	1	4A	15	2#12,#12G,1/2"	DIV 26 - MANUAL SWITCH	DIV 26	DIV 26	DIV 26 - MOTOR RATED SWITCH	DIV 26	DIV 26		EF-K		
EF-R	18 W	0.2 A	0.2 A	20 A	120 V	1	2D	3	2#12,#12G,1/2"	DIV 26 - MANUAL SWITCH	DIV 26	DIV 26	DIV 26 - MOTOR RATED SWITCH	DIV 26	DIV 26		EF-R		
EF-R	18 W	0.2 A	0.2 A	20 A	120 V	1	2C	3	2#12,#12G,1/2"	DIV 26 - MANUAL SWITCH	DIV 26	DIV 26	DIV 26 - MOTOR RATED SWITCH	DIV 26	DIV 26		EF-R		
EF-R	18 W	0.2 A	0.2 A	20 A	120 V	1	2B	5	2#12,#12G,1/2"	DIV 26 - MANUAL SWITCH	DIV 26	DIV 26	DIV 26 - MOTOR RATED SWITCH	DIV 26	DIV 26		EF-R		
EF-R	18 W	0.2 A	0.2 A	20 A	120 V	1	2B	3	2#12,#12G,1/2"	DIV 26 - MANUAL SWITCH	DIV 26	DIV 26	DIV 26 - MOTOR RATED SWITCH	DIV 26	DIV 26		EF-R		
EF-R	18 W	0.2 A	0.2 A	20 A	120 V	1	2A	3	2#12,#12G,1/2"	DIV 26 - MANUAL SWITCH	DIV 26	DIV 26	DIV 26 - MOTOR RATED SWITCH	DIV 26	DIV 26		EF-R		
EF-R	18 W	0.2 A	0.2 A	20 A	120 V	1	4B	3	2#12,#12G,1/2"	DIV 26 - MANUAL SWITCH	DIV 26	DIV 26	DIV 26 - MOTOR RATED SWITCH	DIV 26	DIV 26		EF-R		
EF-R	18 W	0.2 A	0.2 A	20 A	120 V	1	4A	3	2#12,#12G,1/2"	DIV 26 - MANUAL SWITCH	DIV 26	DIV 26	DIV 26 - MOTOR RATED SWITCH	DIV 26	DIV 26		EF-R		
EF-R	18 W	0.2 A	0.2 A	20 A	120 V	1	4A	5	2#12,#12G,1/2"	DIV 26 - MANUAL SWITCH	DIV 26	DIV 26	DIV 26 - MOTOR RATED SWITCH	DIV 26	DIV 26		EF-R		
EF-R	18 W	0.2 A	0.2 A	20 A	120 V	1	4B	31	2#12,#12G,1/2"	DIV 26 - MANUAL SWITCH	DIV 26	DIV 26	DIV 26 - MOTOR RATED SWITCH	DIV 26	DIV 26		EF-R		
EF-R	18 W	0.2 A	0.2 A	20 A	120 V	1	3D	3	2#12,#12G,1/2"	DIV 26 - MANUAL SWITCH	DIV 26	DIV 26	DIV 26 - MOTOR RATED SWITCH	DIV 26	DIV 26		EF-R		
EF-R	18 W	0.2 A	0.2 A	20 A	120 V	1	3C	3	2#12,#12G,1/2"	DIV 26 - MANUAL SWITCH	DIV 26	DIV 26	DIV 26 - MOTOR RATED SWITCH	DIV 26	DIV 26		EF-R		
EF-R	18 W	0.2 A	0.2 A	20 A	120 V	1	3B	5	2#12,#12G,1/2"	DIV 26 - MANUAL SWITCH	DIV 26	DIV 26	DIV 26 - MOTOR RATED SWITCH	DIV 26	DIV 26		EF-R		
EF-R	18 W	0.2 A	0.2 A	20 A	120 V	1	3B	3	2#12,#12G,1/2"	DIV 26 - MANUAL SWITCH	DIV 26	DIV 26	DIV 26 - MOTOR RATED SWITCH	DIV 26	DIV 26		EF-R		
EF-R	18 W	0.2 A	0.2 A	20 A	120 V	1	3A	3	2#12,#12G,1/2"	DIV 26 - MANUAL SWITCH	DIV 26	DIV 26	DIV 26 - MOTOR RATED SWITCH	DIV 26	DIV 26		EF-R		
Grinder Pump																			
GP-1	4128 W	17.2 A	21.5 A	25 A	240 V	1	H	40,42	2#10,#10G,1/2"	MANUF. - AUTOMATIC CONTROLLER	MANUF.	DIV 23	DIV 26 - NON-FUSED SWITCH NEMA 1	DIV 26	DIV 26		GP-1		
Heat Pump																			
HP-201	3888 W	16.2 A	20.0 A	30 A	240 V	1	2A	23,25	2#10,#10G,1/2"	DIV 23 - THERMOSTAT	DIV 23	DIV 23	DIV 26 - NON-FUSED SWITCH NEMA 3R	DIV 26	DIV 26		HP-201		
HP-202	3888 W	16.2 A	20.0 A	30 A	240 V	1	2B	24,26	2#10,#10G,1/2"	DIV 23 - THERMOSTAT	DIV 23	DIV 23	DIV 26 - NON-FUSED SWITCH NEMA 3R	DIV 26	DIV 26		HP-202		
HP-203	2760 W	11.5 A	14.2 A	25 A	240 V	1	2C	23,25	2#10,#10G,1/2"	DIV 23 - THERMOSTAT	DIV 23	DIV 23	DIV 26 - NON-FUSED SWITCH NEMA 3R	DIV 26	DIV 26		HP-203		
HP-204	3576 W	14.9 A	18.3 A	30 A	240 V	1	2D	21,23	2#10,#10G,1/2"	DIV 23 - THERMOSTAT	DIV 23	DIV 23	DIV 26 - NON-FUSED SWITCH NEMA 3R	DIV 26	DIV 26		HP-204		
HP-301	3888 W	16.2 A	20.0 A	30 A	240 V	1	3A	18,20	2#10,#10G,1/2"	DIV 23 - THERMOSTAT	DIV 23	DIV 23	DIV 26 - NON-FUSED SWITCH NEMA 3R	DIV 26	DIV 26		HP-301		
HP-302	3888 W	16.2 A	20.0 A	30 A	240 V	1	3B	21,23	2#10,#10G,1/2"	DIV 23 - THERMOSTAT	DIV 23	DIV 23	DIV 26 - NON-FUSED SWITCH NEMA 3R	DIV 26	DIV 26		HP-302		
HP-303	2760 W	11.5 A	14.2 A	25 A	240 V	1	3C	23,25	2#10,#10G,1/2"	DIV 23 - THERMOSTAT	DIV 23	DIV 23	DIV 26 - NON-FUSED SWITCH NEMA 3R	DIV 26	DIV 26		HP-303		
HP-304	3576 W	14.9 A	18.3 A	30 A	240 V	1	3D	21,23	2#10,#10G,1/2"	DIV 23 - THERMOSTAT	DIV 23	DIV 23	DIV 26 - NON-FUSED SWITCH NEMA 3R	DIV 26	DIV 26		HP-304		
HP-401	2760 W	11.5 A	14.2 A	25 A	240 V	1	4A	27,29	2#10,#10G,1/2"	DIV 23 - THERMOSTAT	DIV 23	DIV 23	DIV 26 - NON-FUSED SWITCH NEMA 3R	DIV 26	DIV 26		HP-401		
HP-402	3888 W	16.2 A	20.0 A	30 A	240 V	1	4B	25,27	2#10,#10G,1/2"	DIV 23 - THERMOSTAT	DIV 23	DIV 23	DIV 26 - NON-FUSED SWITCH NEMA 3R	DIV 26	DIV 26		HP-402		
Sump Pump																			
SP-1	1176 W	9.8 A	12.3 A	20 A	120 V	1	H	19	2#12,#12G,1/2"	DIV 22 - FLOAT SWITCH	MANUF.	DIV 22	DIV 26 - RECEPTACLE	DIV 26	DIV 26		SP-1		
Water Heater																			
WH-201	4500 W	18.8 A	23.4 A	30 A	240 V	1	2A	14,16	2#10,#10G,1/2"	DIV 22 - AQUASTAT	DIV 22	DIV 22	DIV 26 - NON-FUSED SWITCH NEMA 1	DIV 26	DIV 26		WH-201		
WH-202	4500 W	18.8 A	23.4 A	30 A	240 V	1	2B	16,18	2#10,#10G,1/2"	DIV 22 - AQUASTAT	DIV 22	DIV 22	DIV 26 - NON-FUSED SWITCH NEMA 1	DIV 26	DIV 26		WH-202		
WH-203	4500 W	18.8 A	23.4 A	30 A	240 V	1	2C	14,16	2#10,#10G,1/2"	DIV 22 - AQUASTAT	DIV 22	DIV 22	DIV 26 - NON-FUSED SWITCH NEMA 1	DIV 26	DIV 26		WH-203		
WH-204	4500 W	18.8 A	23.4 A	30 A	240 V	1	2D	14,16	2#10,#10G,1/2"	DIV 22 - AQUASTAT	DIV 22	DIV 22	DIV 26 - NON-FUSED SWITCH NEMA 1	DIV 26	DIV 26		WH-204		
WH-301	4500 W	18.8 A	23.4 A	30 A	240 V	1	3A	14,16	2#10,#10G,1/2"	DIV 22 - AQUASTAT	DIV 22	DIV 22	DIV 26 - NON-FUSED SWITCH NEMA 1	DIV 26	DIV 26		WH-301		
WH-302	4500 W	18.8 A	23.4 A	30 A	240 V	1	3B	16,18	2#10,#10G,1/2"	DIV 22 - AQUASTAT	DIV 22	DIV 22	DIV 26 - NON-FUSED SWITCH NEMA 1	DIV 26	DIV 26		WH-302		
WH-303	4500 W	18.8 A	23.4 A	30 A	240 V	1	3C	19,21	2#10,#10G,1/2"	DIV 22 - AQUASTAT	DIV 22	DIV 22	DIV 26 - NON-FUSED SWITCH NEMA 1	DIV 26	DIV 26		WH-303		
WH-304	4500 W	18.8 A	23.4 A	30 A	240 V	1	3D	14,16	2#10,#10G,1/2"	DIV 22 - AQUASTAT	DIV 22	DIV 22	DIV 26 - NON-FUSED SWITCH NEMA 1	DIV 26	DIV 26		WH-304		
WH-401	4500 W	18.8 A	23.4 A	30 A	240 V	1	4A	17,19	2#10,#10G,1/2"	DIV 22 - AQUASTAT	DIV 22	DIV 22	DIV 26 - NON-FUSED SWITCH NEMA 1	DIV 26	DIV 26		WH-401		
WH-402	4500 W	18.8 A	23.4 A	30 A	240 V	1	4B	15,17	2#10,#10G,1/2"	DIV 22 - AQUASTAT	DIV 22	DIV 22	DIV 26 - NON-FUSED SWITCH NEMA 1	DIV 26	DIV 26		WH-402		



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JOB NUMBER
231103

CONTRACT DATE

REVISIONS

NO.	DESCRIPTION	DATE

ISSUE DATE

06/06/2024

CURRENT DRAWING STATUS
CONSTRUCTION
DOCUMENT

Branch Panel: 3B

Location: UNIT 302 302
Supply From: METER CENTER
Mounting: FLUSH
Enclosure: NEMA 1

Volts: 120/240
Phases: 1
Wires: 3

A.I.C. Rating: 10,000 AMPS
Mains Type: MLO
Mains Rating: 125 A
Ground Bus: Yes

Notes:
GF - PROVIDE GROUND FAULT CIRCUIT INTERRUPTING TYPE BRANCH CIRCUIT BREAKER.
AF - PROVIDE ARC FAULT CIRCUIT INTERRUPTING TYPE BRANCH CIRCUIT BREAKER.
GFI/AF - PROVIDE COMBINATION GROUND FAULT AND ARC FAULT CIRCUIT INTERRUPTING TYPE BRANCH CIRCUIT BREAKER.

CCT	Circuit Description	Bkr Type	Rating	Poles	A		B		Poles	Rating	Bkr Type	Circuit Description	CCT
1	LIGHTS UNIT 3B	AF	20 A	1	967	900			1	20 A	AF	RCPT OFFICE/BEDROOM	2
3	BATHROOM CIRCUIT		20 A	1			248	1080	1	20 A	AF	RCPT BEDROOM	4
5	BATHROOM CIRCUIT		20 A	1	248	1080			1	20 A	AF	RCPT LIVING ROOM	6
7	REFRIGERATOR	GFI/AF	20 A	1			1000	720	1	20 A	AF	RCPT DINING	8
9	RCPT KITCHEN	AF	20 A	1	180	4150							
11	RCPT KITCHEN	AF	20 A	1			180	4150	2	40 A		RANGE	10
13	RCPT KITCHEN	AF	20 A	1	540	1518			1	20 A	GFI/AF	MICROWAVE & EF-K	14
15	DRYER, NOTE 1		30 A	2			2500	2250	2	30 A		WH-302	16
17	WASHER	GFI/AF	20 A	1			1500	2824	2	30 A		AH-302	18
19	HP-302		30 A	2	1944	2824							20
21							1944	1000	1	20 A	GFI/AF	GARBAGE DISPOSAL	22
23	SPACE	--	1	--	1200				1	20 A	GFI/AF	DISHWASHER	24
25	SPACE	--	1	--			--	--	1	--		SPACE	26
27	SPACE	--	1	--					1	--		SPACE	28
29	SPACE												30
Total...					20300 VA		19396 VA						
					169 A		162 A						

Notes:
1. VERIFY CIRCUIT BREAKER REQUIREMNTS WITH VENTLESS DRYER PROVIDER. WHERE THE VENTLESS DRYER REQUIRES A 15A OR 20A
120V CIRCUIT TO SERVE A RECEPTACLE FOR OPERATION, PROVIDE A GFI/AF TYPE CIRCUIT BREAKER.
2. PROVIDE INTEGRAL SURGE PROTECTION DEVICE.

Branch Panel: 3A

Location: UNIT 301 301
Supply From: METER CENTER
Mounting: FLUSH
Enclosure: NEMA 1

Volts: 120/240
Phases: 1
Wires: 3

A.I.C. Rating: 10,000 AMPS
Mains Type: MLO
Mains Rating: 125 A
Ground Bus: Yes

Notes:
GF - PROVIDE GROUND FAULT CIRCUIT INTERRUPTING TYPE BRANCH CIRCUIT BREAKER.
AF - PROVIDE ARC FAULT CIRCUIT INTERRUPTING TYPE BRANCH CIRCUIT BREAKER.
GFI/AF - PROVIDE COMBINATION TYPE GROUND FAULT AND ARC FAULT CIRCUIT INTERRUPTING TYPE BRANCH CIRCUIT BREAKER.

CCT	Circuit Description	Bkr Type	Rating	Poles	A		B		Poles	Rating	Bkr Type	Circuit Description	CCT
1	LIGHTS UNIT 3A	AF	20 A	1	917	900			1	20 A	AF	RCPT OFFICE/BEDROOM	2
3	BATHROOM CIRCUIT		20 A	1			248	900	1	20 A	AF	RCPT BEDROOM	4
5	REFRIGERATOR	GFI/AF	20 A	1	1000	1080			1	20 A	AF	RCPT LIVING ROOM	6
7	RCPT ENTRY	AF	20 A	1			180	4150					8
9	RCPT KITCHEN	AF	20 A	1	540	4150			2	40 A		RANGE	10
11	RCPT KITCHEN	AF	20 A	1			540	1518	1	20 A	GFI/AF	MICROWAVE & EF-K	12
13	DRYER, NOTE 1		30 A	2	2500	2250			2	30 A		WH-301	14
15							2500	2250					16
17	WASHER	GFI/AF	20 A	1	1500	1944			2	30 A		HP-301	18
19	AH-301		30 A	2			2824	1944	2	30 A			20
21					2824	1200			1	20 A	GFI/AF	DISHWASHER	22
23	SPACE	--	1				--	1000	1	20 A	GFI/AF	GARBAGE DISPOSAL	24
25	SPACE	--	1	--	--	--	--	--	1	--	--	SPACE	26
27	SPACE	--	1	--	--	--	--	--	1	--	--	SPACE	28
29	SPACE	--	1	--	--	--	--	--	1	--	--	SPACE	30
Total...					20804 VA		18054 VA						
					173 A		150 A						

Notes:
1. VERIFY CIRCUIT BREAKER REQUIREMNTS WITH VENTLESS DRYER PROVIDER. WHERE THE VENTLESS DRYER REQUIRES A 15A OR 20A
120V CIRCUIT TO SERVE A RECEPTACLE FOR OPERATION, PROVIDE A GFI/AF TYPE CIRCUIT BREAKER.
2. PROVIDE INTEGRAL SURGE PROTECTION DEVICE.

Branch Panel: 4A

Location: UNIT 401-1 401-1
Supply From: METER CENTER
Mounting: FLUSH
Enclosure: NEMA 1

Volts: 120/240
Phases: 1
Wires: 3

A.I.C. Rating: 10,000 AMPS
Mains Type: MLO
Mains Rating: 150 A
Ground Bus: Yes

Notes:
GF - PROVIDE GROUND FAULT CIRCUIT INTERRUPTING TYPE BRANCH CIRCUIT BREAKER.
AF - PROVIDE ARC FAULT CIRCUIT INTERRUPTING TYPE BRANCH CIRCUIT BREAKER.
GFI/AF - PROVIDE COMBINATION TYPE GROUND FAULT AND ARC FAULT CIRCUIT INTERRUPTING TYPE BRANCH CIRCUIT BREAKER.

CCT	Circuit Description	Bkr Type	Rating	Poles	A		B		Poles	Rating	Bkr Type	Circuit Description	CCT	
1	LIGHTS UNIT 4A	AF	20 A	1	1283	1080				1	20 A	AF	RCPT BEDROOM	2
3	BATHROOM CIRCUIT		20 A	1			231	720	1	20 A	AF	RCPT BEDROOM	4	
5	BATHROOM CIRCUIT		20 A	1	445	540			1	20 A	AF	RCPT EXTERIOR	6	
7	RCPT DINING	AF	20 A	1			720	1000	1	20 A	GFI/AF	REFRIGERATOR	8	
9	RCPT LIVING ROOM	AF	20 A	1	540	540			1	20 A	AF	RCPT KITCHEN	10	
11	RANGE		40 A	2			4150	360	1	20 A	AF	RCPT KITCHEN	12	
13	RANGE		40 A	2	4150	540			1	20 A	AF	RCPT KITCHEN	14	
15	MICROWAVE & EF-K	GFI/AF	20 A	1	2250	2500	1518	2500						16
17	WH-401		30 A	2	2250	2500	2250	1500	1	20 A	GFI/AF	WASHER	20	
19	HWC-401		15 A	1	864	720			1	20 A	AF	RCPT BEDROOM	22	
21	HWC-401		15 A	1	864	720	2728	900	1	20 A	AF	RCPT BEDROOM	24	
23	AH-401		30 A	2		2728	230		1	20 A		BATHROOM CIRCUIT	26	
25	HP-401		25 A	2			1380	1284				DHP-401 / DAH-401	28	
29	HP-401		25 A	2	1380	1284			2	25 A		DHP-401 / DAH-401	30	
31	SPACE	--	--	1	--	--	--	1200	1	20 A	GFI/AF	DISHWASHER	32	
33	SPACE	--	--	1	--	1000	--	--	1	20 A	GFI/AF	GARBAGE DISPOSAL	34	
35	SPACE	--	--	1	--	--	--	--	1	--		SPACE	36	
37	SPACE	--	--	1	--	--	--	--	1	--		SPACE	38	
39	SPACE	--	--	1	--	--	--	--	1	--		SPACE	40	
41	SPACE	--	--	1	--	--	--	--	1	--		SPACE	42	
Total...					22074 VA		22441 VA		Total...					
					184 A		187 A							

Notes:
1. VERIFY CIRCUIT BREAKER REQUIREMENTS WITH VENTLESS DRYER PROVIDER. WHERE THE VENTLESS DRYER REQUIRES A 15A OR 20A
120V CIRCUIT TO SERVE A RECEPTACLE FOR OPERATION, PROVIDE A GFI/AF TYPE CIRCUIT BREAKER.
2. PROVIDE INTEGRAL SURGE PROTECTION DEVICE.

Branch Panel: 2D

Location: UNIT 204 204
Supply From: METER CENTER
Mounting: FLUSH
Enclosure: NEMA 1

Volts: 120/240
Phases: 1
Wires: 3

A.I.C. Rating: 10,000 AMPS
Mains Type: MLO
Mains Rating: 125 A
Ground Bus: Yes

Notes:
GF - PROVIDE GROUND FAULT CIRCUIT INTERRUPTING TYPE BRANCH CIRCUIT BREAKER.
AF - PROVIDE ARC FAULT CIRCUIT INTERRUPTING TYPE BRANCH CIRCUIT BREAKER.
GFI/AF - PROVIDE COMBINATION TYPE GROUND FAULT AND ARC FAULT CIRCUIT INTERRUPTING TYPE BRANCH CIRCUIT BREAKER.

CCT	Circuit Description	Bkr Type	Rating	Poles	A		B		Poles	Rating	Bkr Type	Circuit Description	CCT
1	LIGHTS UNIT 2D	AF	20 A	1	717	1080					AF	RCPT BEDROOM	2
3	BATHROOM CIRCUIT		20 A	1			248	900	1	20 A	AF	RCPT LIVING ROOM	4
5	REFRIGERATOR	GFI/AF	20 A	1	1000	540			1	20 A	AF	RCPT ENTRY/CORRIDOR	6
7	RCPT KITCHEN	AF	20 A	1			540	4150					8
9	RCPT KITCHEN	AF	20 A	1	540	4150			2	40 A		RANGE	10
11							0	1518	1	20 A	GFI/AF	MICROWAVE & EF-K	12
13	DRYER, NOTE 1		30 A	2	0	2250			2	30 A		WH-204	14
15	WASHER	GFI/AF	20 A	1			1500	2250					16
17	GARBAGE DISPOSAL	GFI/AF	20 A	1	1000	2824			2	30 A		AH-204	18
19	DISHWASHER	GFI/AF	20 A	1			1200	2824					20
21	HP-204		30 A	2	1788	--			1	--		SPACE	22
23	SPACE		--	1	--	--	1788	--	1	--		SPACE	24
25	SPACE		--	1	--	--	--	--	1	--		SPACE	26
27	SPACE		--	1	--	--	--	--	1	--		SPACE	28
29	SPACE		--	1	--	--	--	--	1	--		SPACE	30
Total...					15888 VA	16918 VA							
					132 A	141 A							

Notes:
1. VERIFY CIRCUIT BREAKER REQUIREMNTS WITH VENTLESS DRYER PROVIDER. WHERE THE VENTLESS DRYER REQUIRES A 15A OR 20A
120V CIRCUIT TO SERVE A RECEPTACLE FOR OPERATION, PROVIDE A GFI/AF TYPE CIRCUIT BREAKER.
2. PROVIDE INTEGRAL SURGE PROTECTION DEVICE.

Branch Panel: 3C

Location: UNIT 303 303
Supply From: METER CENTER
Mounting: FLUSH
Enclosure: NEMA 1

Volts: 120/240
Phases: 1
Wires: 3

A.I.C. Rating: 10,000 AMPS
Mains Type: MLO
Mains Rating: 125 A
Ground Bus: Yes

Notes:
GF - PROVIDE GROUND FAULT CIRCUIT INTERRUPTING TYPE BRANCH CIRCUIT BREAKER.
AF - PROVIDE ARC FAULT CIRCUIT INTERRUPTING TYPE BRANCH CIRCUIT BREAKER.
GFI/AF - PROVIDE COMBINATION TYPE GROUND FAULT AND ARC FAULT CIRCUIT INTERRUPTING TYPE BRANCH CIRCUIT BREAKER.

CCT	Circuit Description	Bkr Type	Rating	Poles	A		B		Poles	Rating	Bkr Type	Circuit Description	CCT
1	LIGHTS UNIT 3C	AF	20 A	1	750	900			1	20 A	AF	RCPT OFFICE/BEDROOM	2
3	BATHROOM CIRCUIT		20 A	1			248	720	1	20 A	AF	RCPT ENTRY/CORRIDOR	4
5	REFRIGERATOR	GFI/AF	20 A	1	1000	720			1	20 A	AF	RCPT LIVING ROOM	6
7	RCPT KITCHEN	AF	20 A	1			360	4150					8
9		AF				4150			2	40 A		RANGE	10
11	RCPT KITCHEN	AF	20 A	1			540	1518	1	20 A	GFI/AF	MICROWAVE & EF-K	12
13	DRYER, NOTE 1		30 A	2	2500	1000			1	20 A	GFI/AF	GARBAGE DISPOSAL	14
15							2500	1200	1	20 A	GFI/AF	DISHWASHER	16
17	WASHER	GFI/AF	20 A	1	1500	2728							18
19	WH-303		30 A	2			2250	2728	2	20 A		AH-303	20
21					2250	--			1	--		SPACE	22
23	HP-303		25 A	2			1380	--	1	--		SPACE	24
25					1380	--			1	--		SPACE	26
27	SPACE		--	1		--	--	--	1	--		SPACE	28
29	SPACE		--	1	--	--			1	--		SPACE	30
Total...					18878 VA	17594 VA							
					157 A	147 A							

Notes:
1. VERIFY CIRCUIT BREAKER REQUIREMNTS WITH VENTLESS DRYER PROVIDER. WHERE THE VENTLESS DRYER REQUIRES A 15A OR 20A
120V CIRCUIT TO SERVE A RECEPTACLE FOR OPERATION, PROVIDE A GFI/AF TYPE CIRCUIT BREAKER.
2. PROVIDE INTEGRAL SURGE PROTECTION DEVICE.

Branch Panel: 4B

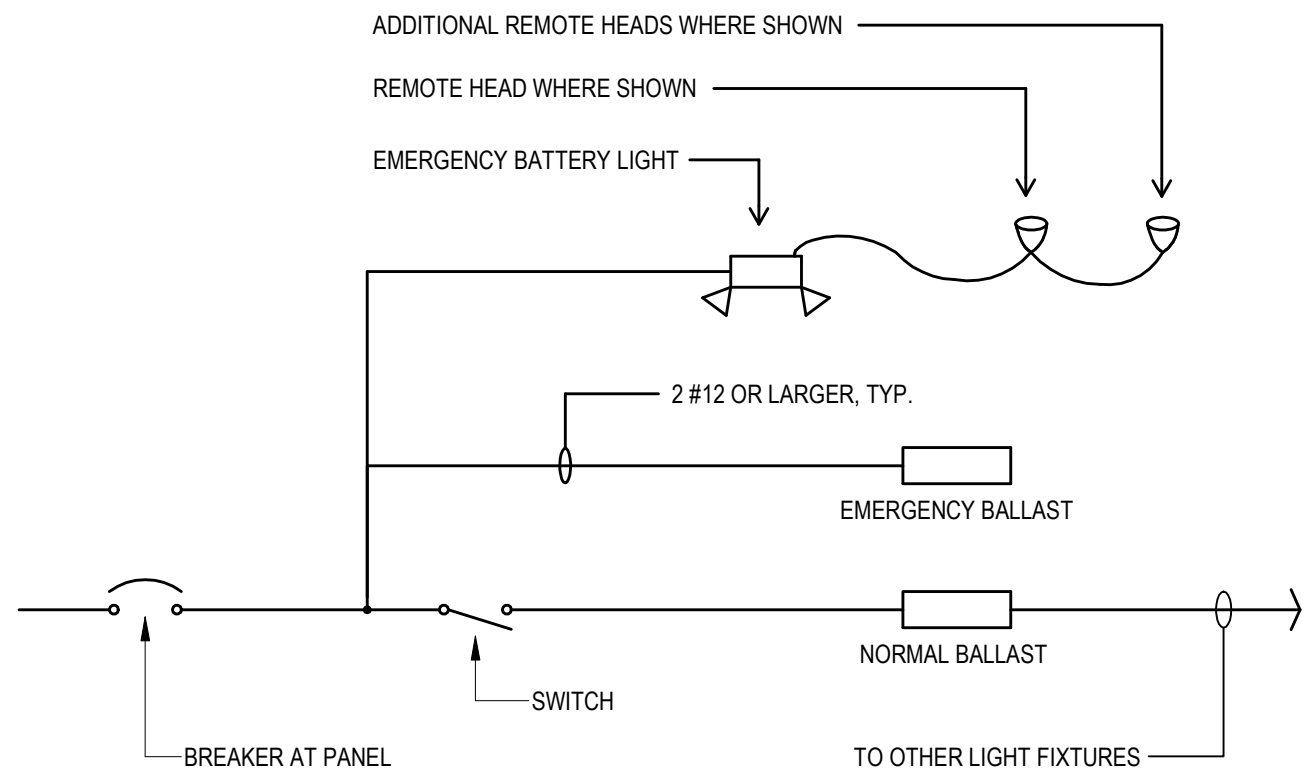
Location: UNIT 402-1 402-1
Supply From: METER CENTER
Mounting: FLUSH
Enclosure: NEMA 1

Volts: 120/240
Phases: 1
Wires: 3

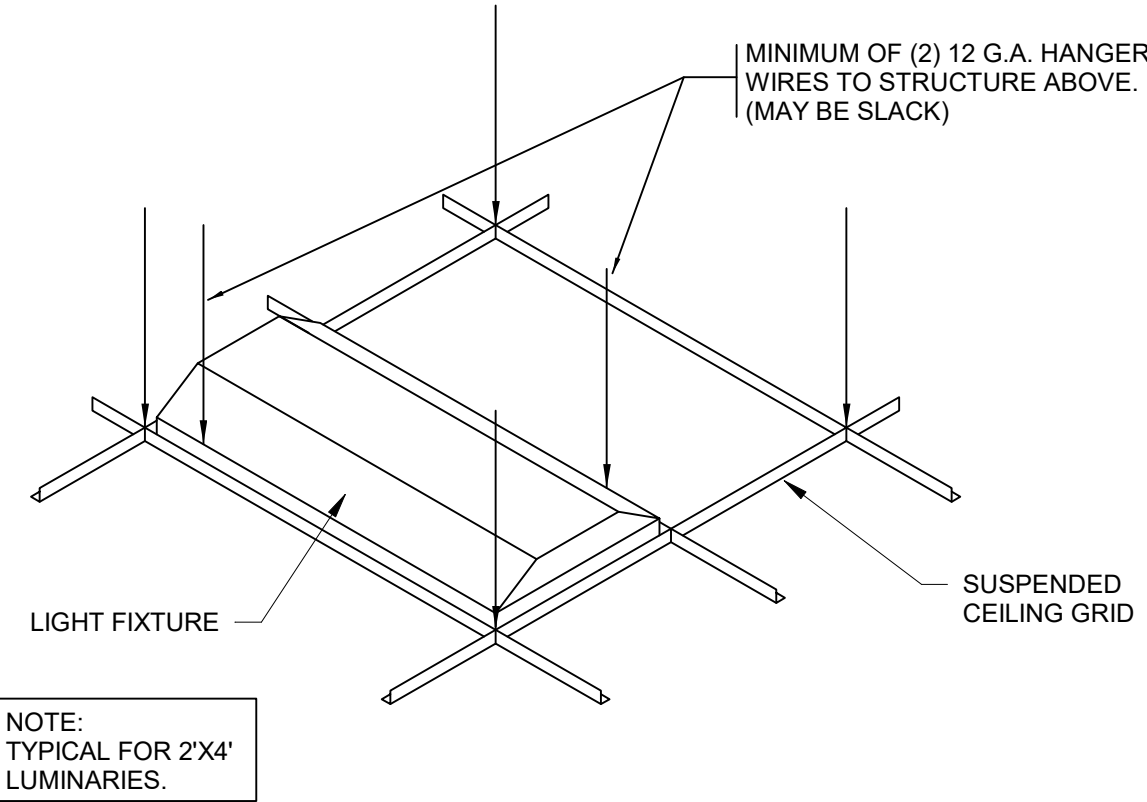
A.I.C. Rating: 10,000 AMPS
Mains Type: MLO
Mains Rating: 150 A
Ground Bus: Yes

Notes:
GF - PROVIDE GROUND FAULT CIRCUIT INTERRUPTING TYPE BRANCH CIRCUIT BREAKER.
AF - PROVIDE ARC FAULT CIRCUIT INTERRUPTING TYPE BRANCH CIRCUIT BREAKER.
GFI/AF - PROVIDE COMBINATION TYPE GROUND FAULT AND ARC FAULT CIRCUIT INTERRUPTING TYPE BRANCH CIRCUIT BREAKER.

CCT	Circuit Description	Bkr Type	Rating	Poles	A		B		Poles	Rating	Bkr Type	Circuit Description	CCT
1	LIGHTS UNIT 4B	AF	20 A	1	1250		231	1080	1	20 A	AF	RCPT BEDROOM	4
3	BATHROOM CIRCUIT		20 A	1									
5	BATHROOM CIRCUIT		20 A	1	445	1080			1	20 A	AF	RCPT BEDROOM	6
7	RCPT EXTERIOR	AF	20 A	1			360	720	1	20 A	AF	RCPT DINING	8
9	REFRIGERATOR	GF/AF	20 A	1	1000	720			1	20 A	AF	RCPT ENTRY	10
11	RCPT KITCHEN	AF	20 A	1			360	4150					12
13	RCPT KITCHEN	AF	20 A	1	720	4150			2	40 A		RANGE	10
15	WATER HEATER		30 A	2	2250	2500	2250	1518	1	20 A	GF/AF	MICROWAVE & EF-K	14
17	HW/C-402		15 A	1			864	2500	2	30 A		DRYER, NOTE 1	18
19	GARBAGE DISPOSAL	GF/AF	20 A	1	1000	1500			1	20 A	GF/AF	WASHER	20
21	DISHWASHER	GF/AF	20 A	1			1200	2824					22
23	HP-402		30 A	2	1944	2824			2	30 A		AH-402	24
25							1944	923					26
27									2	15 A		DHP-402 / DAH-402	28
29	RCPT LIVING 402 07	AF	20 A	1	360	923	248	--	1	--		SPACE	30
31	BATHROOM CIRCUIT		20 A	1	--	--	--	--	1	--		SPACE	32
33	SPACE	--	1	--	--	--	--	--	1	--		SPACE	34
35	SPACE	--	1	--	--	--	--	--	1	--		SPACE	36
37	SPACE	--	1	--	--	--	--	--	1	--		SPACE	38
39	SPACE	--	1	--	--	--	--	--	1	--		SPACE	40
41	SPACE	--	1	--	--	--	--	--	1	--		SPACE	42
Totals					22665 VA		21172 VA						
Totals					189 A		176 A						



1 E-501 EMERGENCY LIGHTING WIRING DIAGRAM
NOT TO SCALE



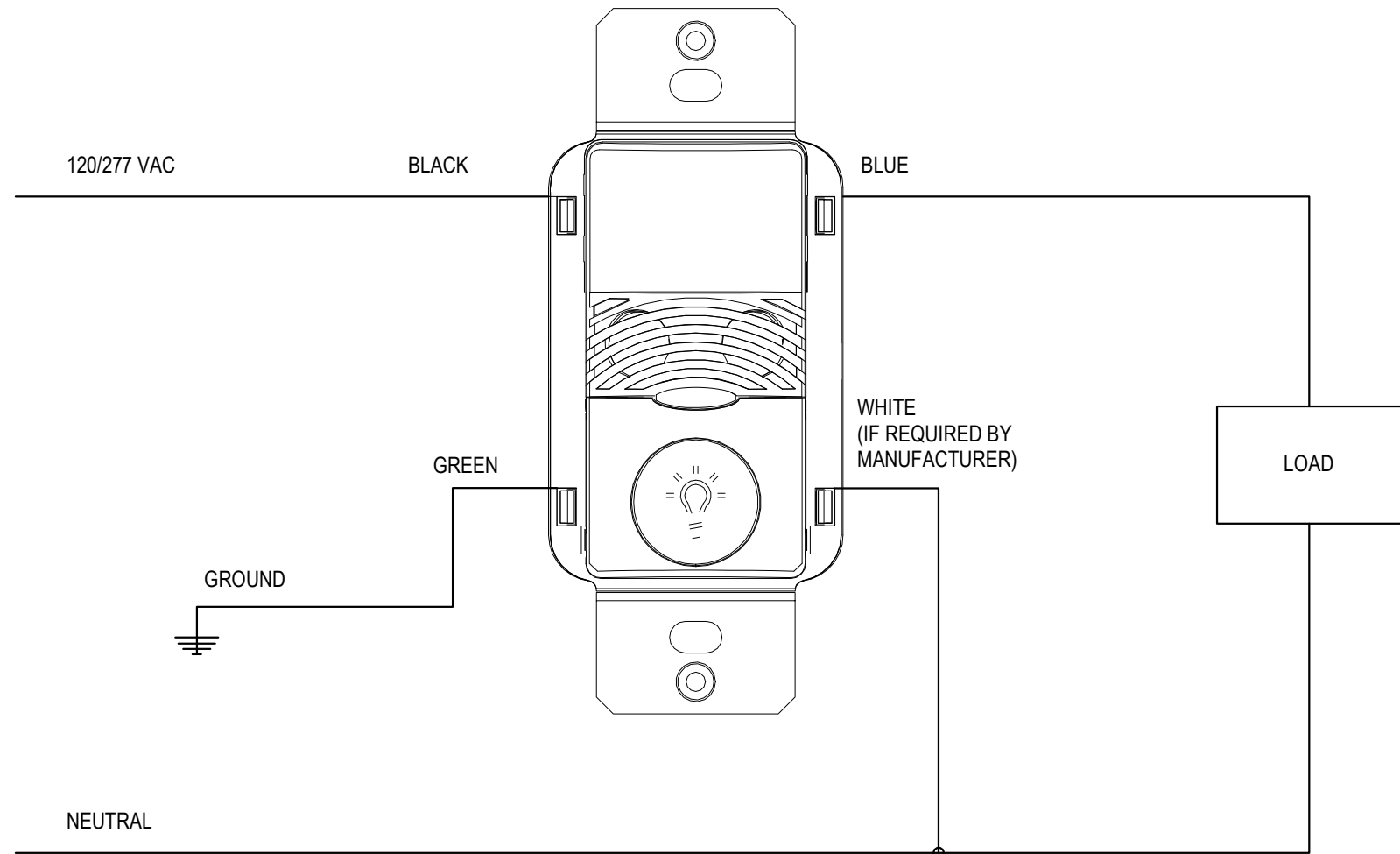
2 E-501 LIGHT SUPPORT DETAIL
NOT TO SCALE

VACANCY (MANUAL ON/AUTO OFF) MODE

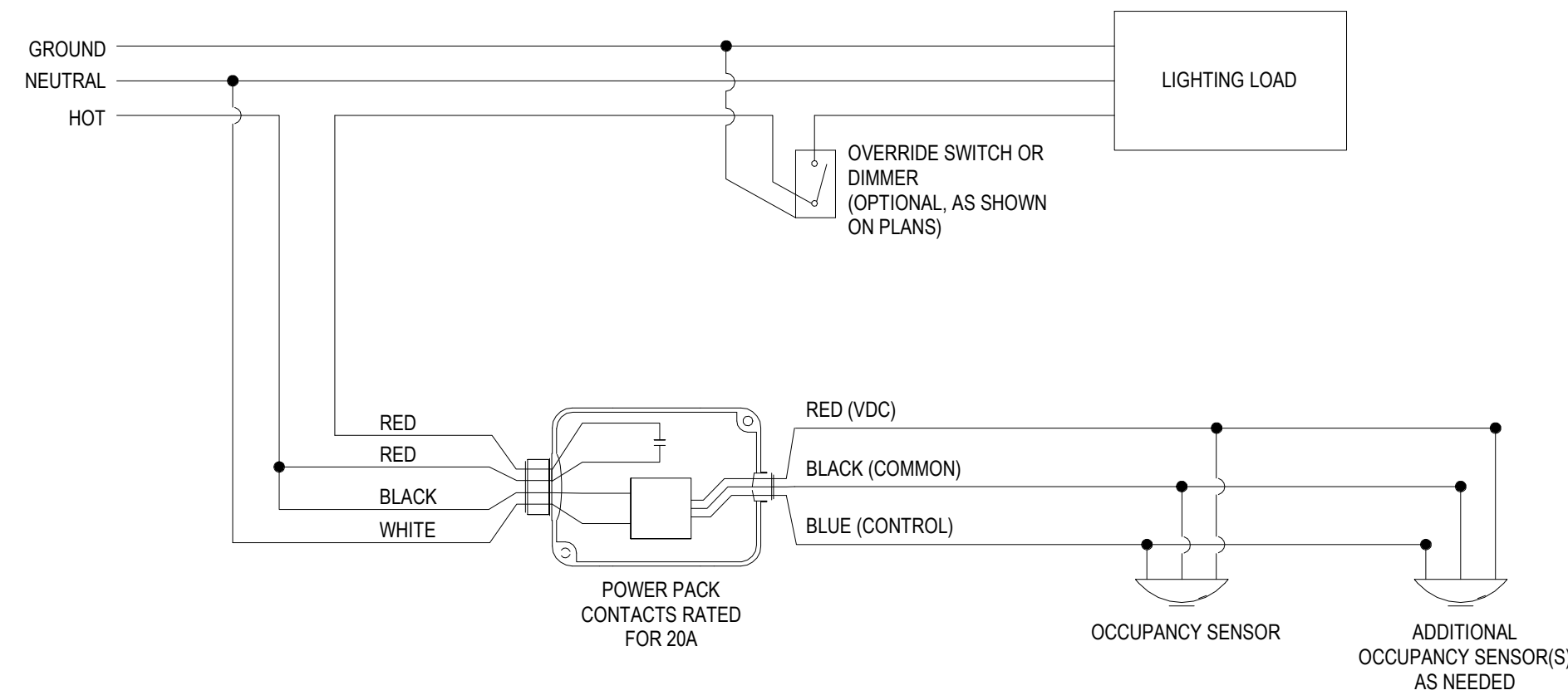
1. SWITCH IS REQUIRED TO TURN LOAD ON.
2. LOAD TURNS OFF WHEN SENSOR TIMES OUT OR WITH SWITCH.

OCCUPANCY (AUTO ON/AUTO OFF) MODE

1. WHEN SENSOR ACTIVATES, LOAD TURNS ON.
2. SWITCH CAN BE USED TO TURN LOAD ON OR OFF.

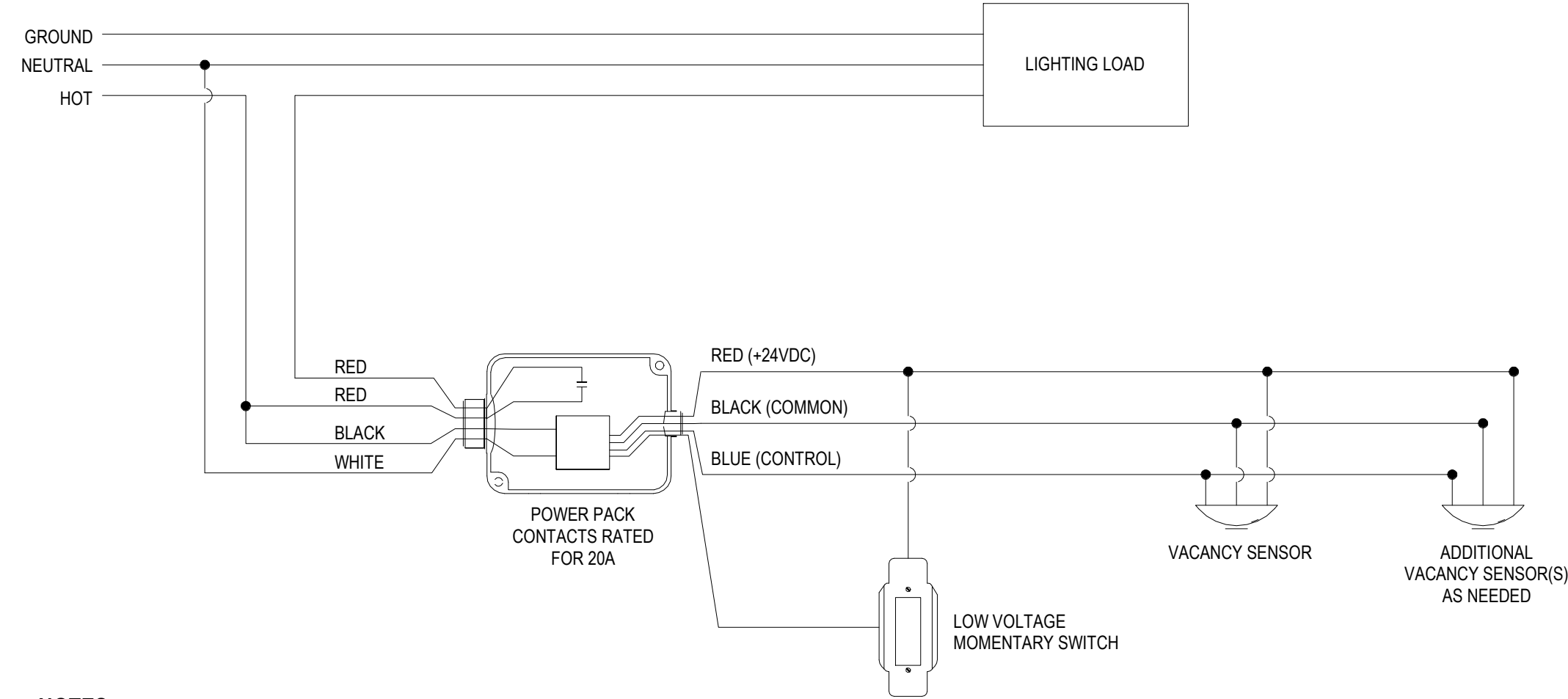


4 E-501 WALL MOUNTED OCCUPANCY/VACANCY SENSOR
NOT TO SCALE



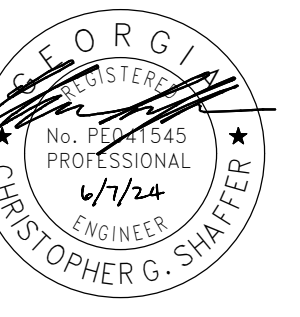
- NOTES
1. LIGHTING WILL TURN ON AUTOMATICALLY WHEN ANY OCCUPANCY SENSOR IN THE ZONE DETECTS MOTION.
 2. LOW VOLTAGE WIRE TO BE 18AWG.
 3. THIS IS DIAGRAMATIC ONLY. USE WIRING DIAGRAMS FROM OCCUPANCY SENSOR AND SWITCH MANUFACTURER.

3 E-501 OCCUPANCY SENSOR DETAIL
NOT TO SCALE



- NOTES
1. DO NOT ATTEMPT TO POWER MORE THAN 4 DEVICES, BE IT SENSORS OR SLAVE PACKS, FROM A SINGLE POWER PACK.
 2. LOW VOLTAGE SWITCH STATION IS REQUIRED TO TURN THE LIGHTING LOAD ON. THE LIGHTING LOAD WILL TURN OFF IF EITHER THE SWITCH STATION IS PRESSED OFF OR IF OCCUPANCY IS LOST.
 3. LOW VOLTAGE WIRE TO BE 18AWG.
 4. THIS IS DIAGRAMATIC ONLY. USE WIRING DIAGRAMS FROM OCCUPANCY SENSOR AND SWITCH MANUFACTURER.

6 E-501 VACANCY SENSOR DETAIL
NOT TO SCALE



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JOB NUMBER

231103

CONTRACT DATE

REVISIONS

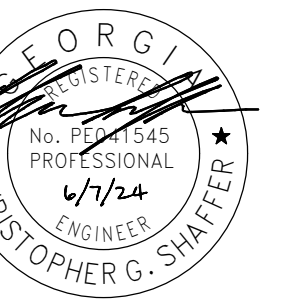
NO.	DESCRIPTION	DATE

ISSUE DATE

06/06/2024

CURRENT DRAWING STATUS

CONSTRUCTION
DOCUMENT



ROOF TOP ADDITION

AT

408 MARTIN LUTHER KING JR. BLVD.

ELECTRICAL DETAILS

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NUMBER

TRACT DATE

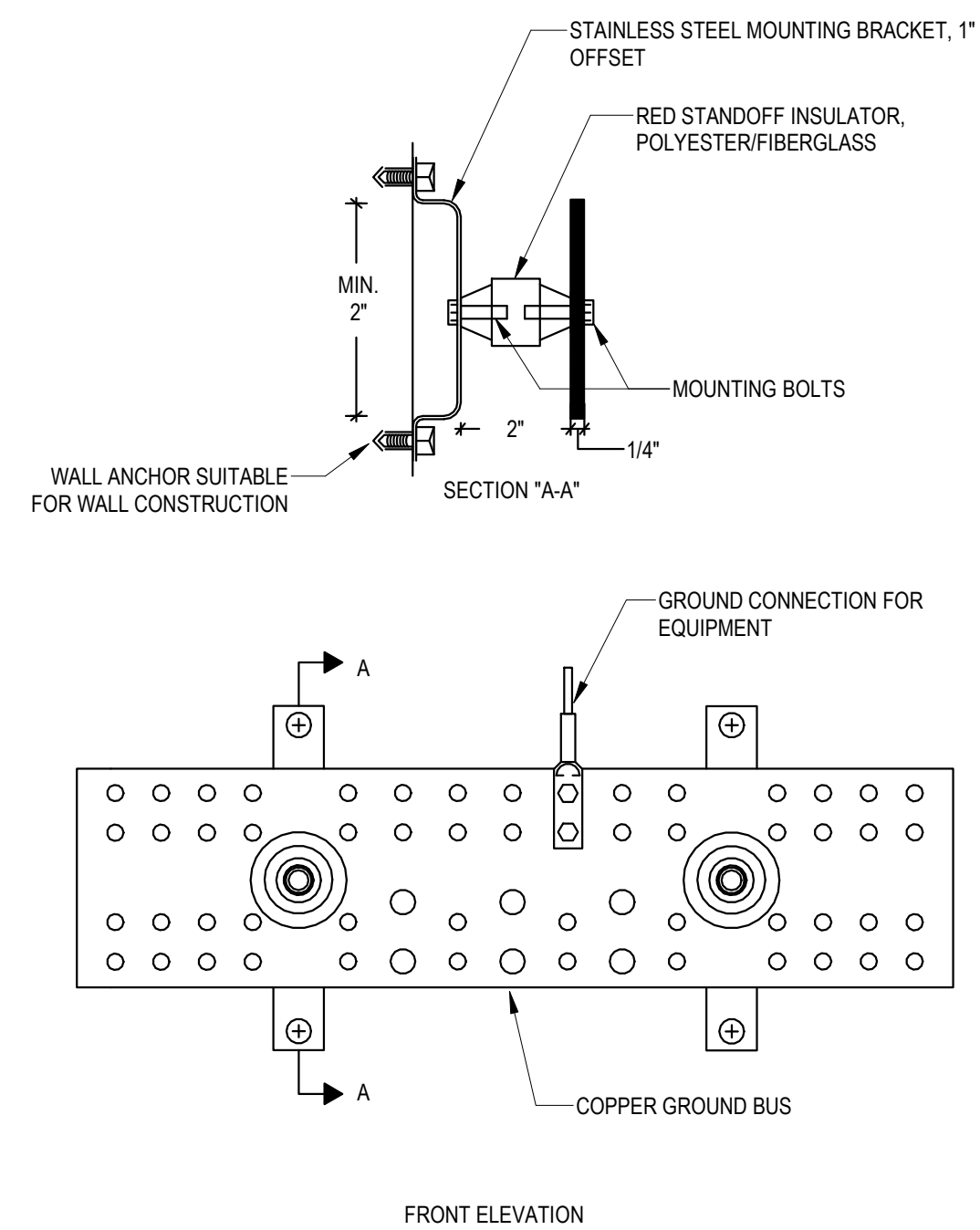
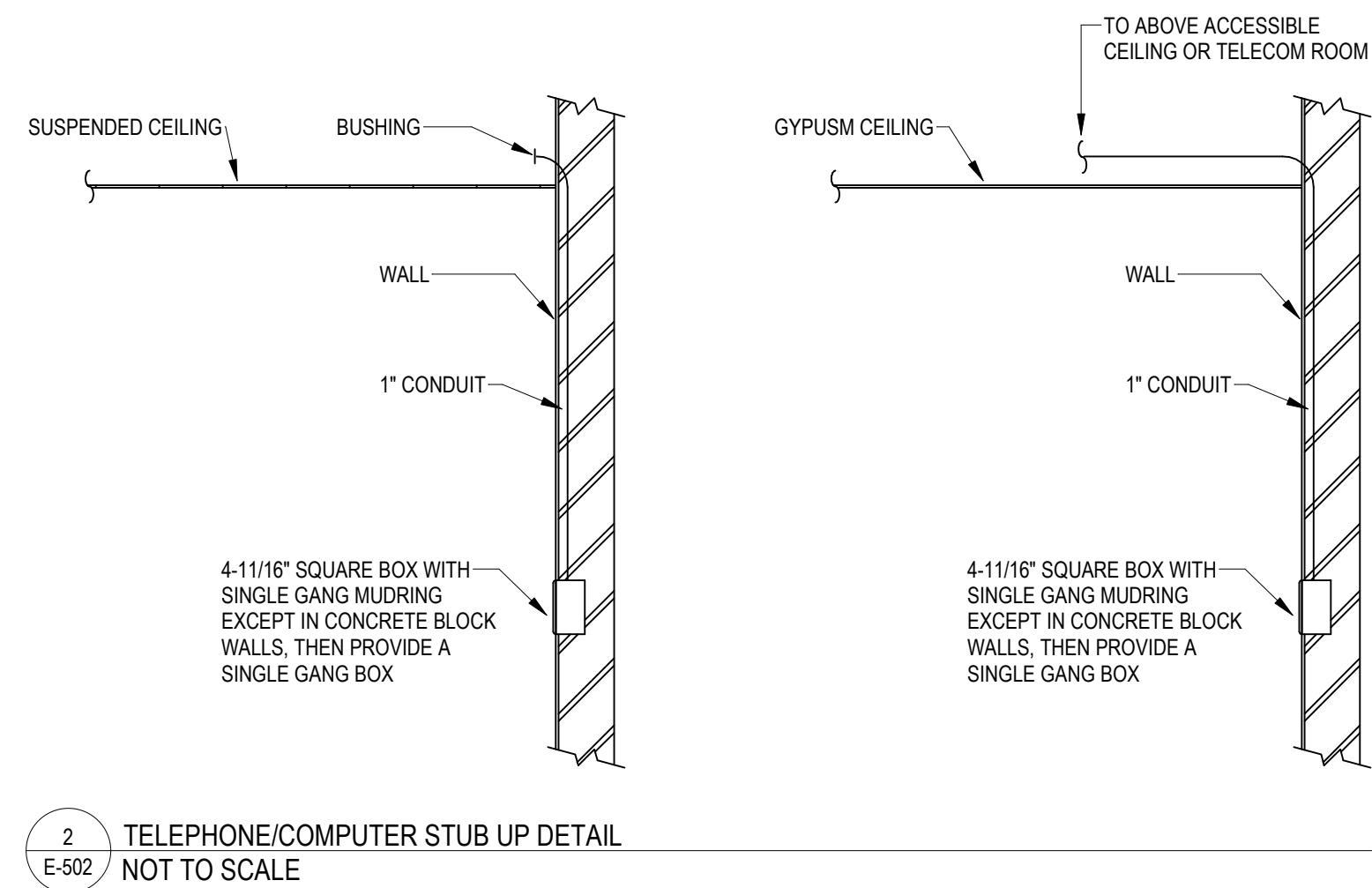
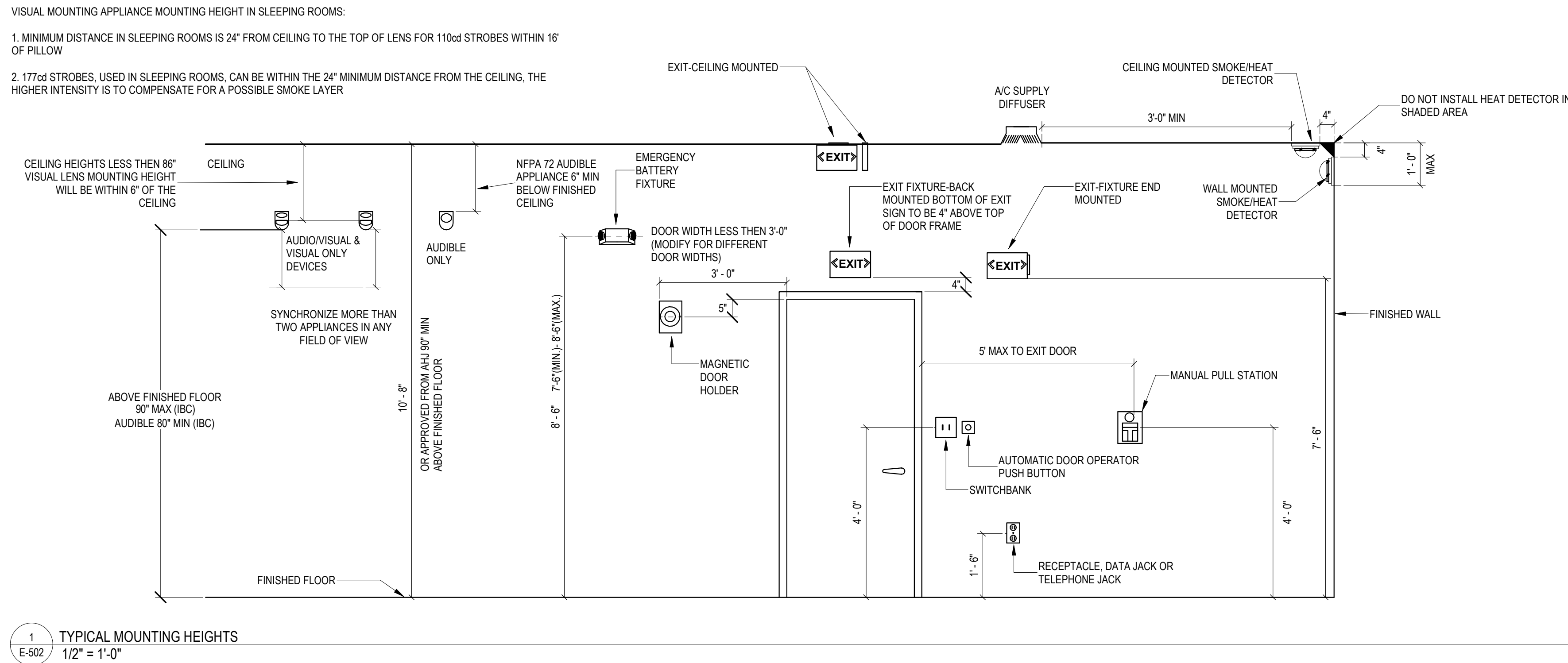
DESCRIPTION		DATE

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6/06/2024

PRESENT DRAWING STATUS
CONSTRUCTION
DOCUMENT

E-502



- NOTES:**
1. MINIMUM SIZES:
4" WIDE X 20" LONG FOR TELECOMMUNICATIONS MAIN GROUND BAR
2" WIDE X 12" LONG FOR TELECOMMUNICATIONS GROUND BAR
ALL GROUNDING AND BONDING SHALL BE IN ACCORDANCE WITH NEC, TIA/EIA AND UL STANDARDS
 3. LENGTH OF GROUND BAR SHALL BE AS REQUIRED BY THE NUMBER OF CONNECTIONS PLUS AN ADDITIONAL 25% SPARE CAPACITY.

