

McHenry County College

ENGAGEMENT HALL

8900 NORTHWEST HWY #14
CRYSTAL LAKE, IL 60012

ISSUED FOR BID - NOT FOR CONSTRUCTION

05/16/2025

DKA PROJECT NO: 24-027
MCC BID NO: IFB#06052025



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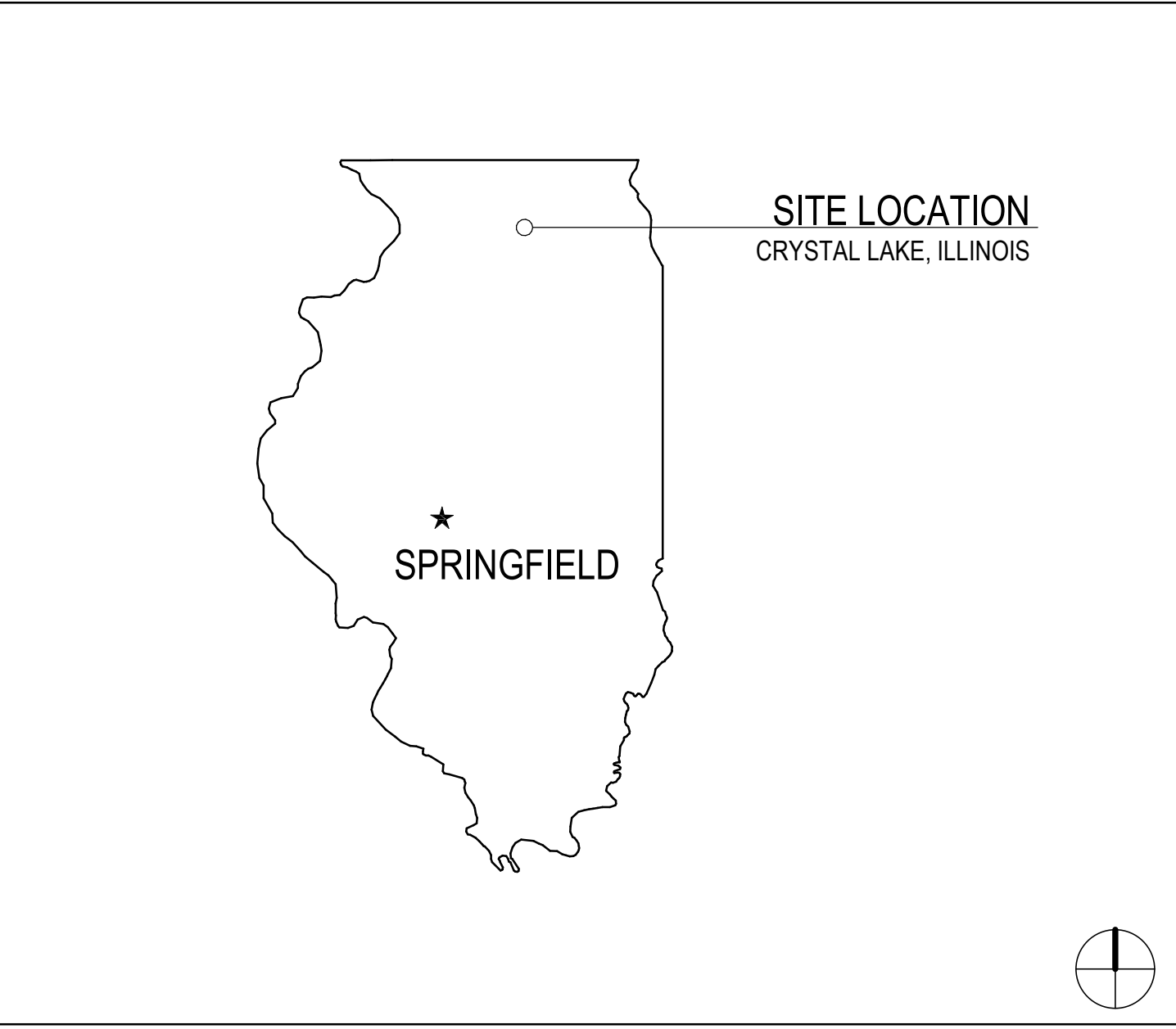
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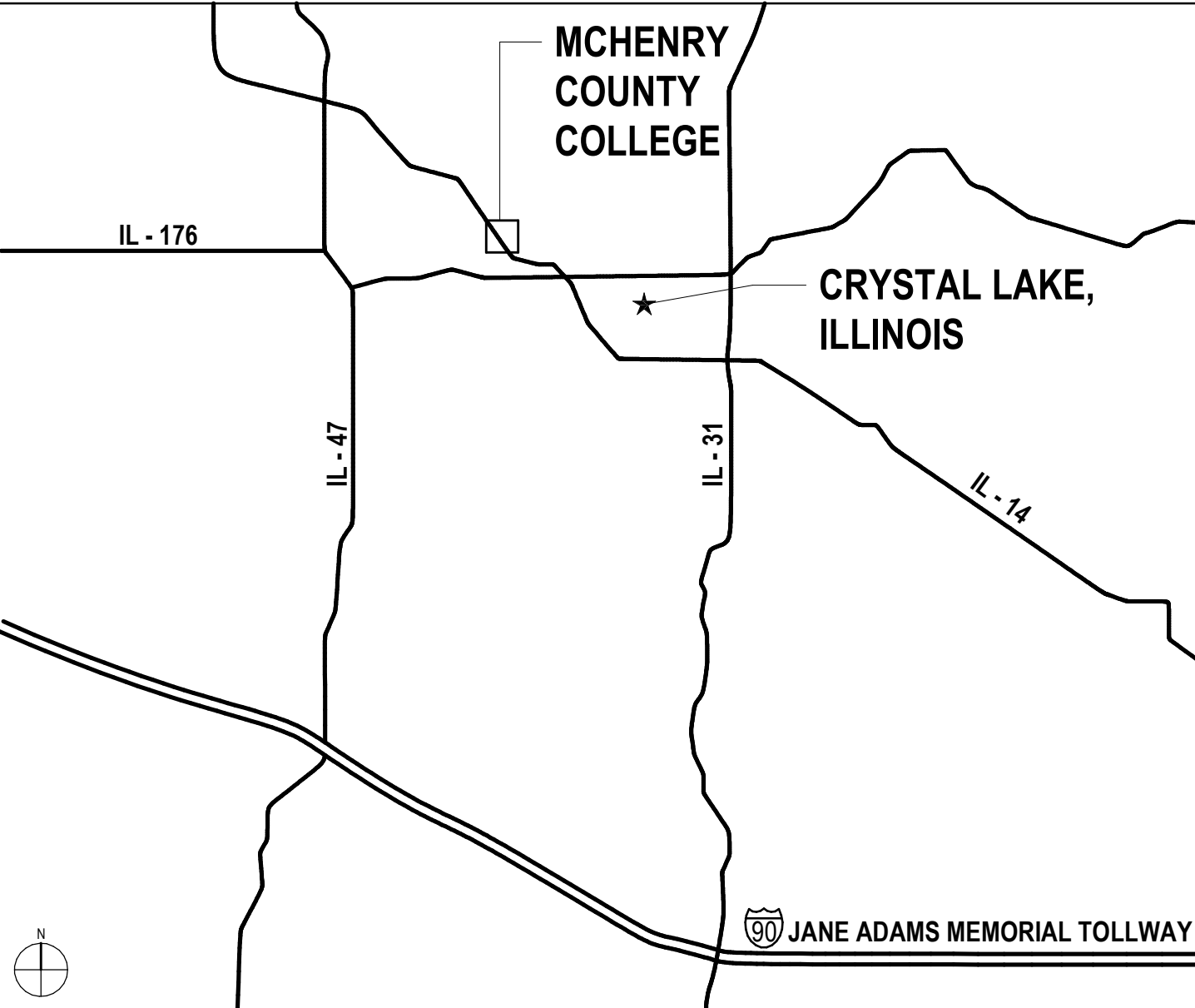
ABBREVIATIONS

AP	ACCESS PANEL	HDW	HARDWARE	TEL	TELEPHONE
ACOUST	ACOUSTICAL	HDWD	HARDWOOD	TV	TELEVISION
ACT	ACOUSTICAL CEILING TILE	HDR	HEADER	TRZ	TERRAZZO
ADJ	ADJACENT	HTG	HEATING	TB	TILE BASE
A.F.F.	ABOVE FINISH FLOOR	HVAC	HEATING, VENTILATING, AIR CONDITIONING	THK	THICK
AGGR	AGGREGATE	HT	HEIGHT	T.O.C.	TOP OF CURB
A/C	AIR CONDITIONING	HC	HOLLOW CORE	TOP	TOP OF PAVEMENT
ALT	ALTERNATE	HM	HOLLOW METAL	TOW	TOP OF WALL
ALUM	ALUMINUM	HMF	HOLLOW METAL FRAME	T&G	TONGUE AND GROOVE
L	ANGLE	HORZ	HORIZONTAL	TYP	TYPICAL
APPD	APPROVED	HB	HOSE BIB		
APPROX	APPROXIMATE	HR	HOUR	UNF	UNFINISHED
ARCH	ARCHITECTURAL OR ARCHITECT			U.N.O.	UNLESS NOTED OTHERWISE
AD	AREA DRAIN	INC	INCLUDE	UR	URINAL
ASB	ASBESTOS	I.D.	INSIDE DIAMETER		
ASPH	ASPHALT	INSUL	INSULATION		
A/V	AUDIO VISUAL	INTR	INTERIOR	VB	VINYL BASE
		INV	INVERT	VERT	VERTICAL
				VEST	VESTIBULE
BSMT	BASEMENT			VCT	VINYL COMPOSITION TILE
BRG	BEARING	JAN	JANITOR	VW	VINYL WALLCOVERING
BM	BEAM	JT	JOINT		
BTW	BETWEEN	KIT	KITCHEN	WSCT	WAINSCOT
BITUM	BITUMINOUS	LAM	LAMINATE	WC	WATER CLOSET
BLK	BLOCK	LAV	LAVATORY	WLK	WALK-OFF MAT
BLKG	BLOCKING	LH	LEFT HAND	WR	WATER RESISTANT
BD	BOARD	LGTH	LENGTH	W	WEST
BRK	BRICK	LT	LIGHT	W	WEST
BLDG	BUILDING	LWC	LIGHT WEIGHT CONCRETE	W	WIDE FLANGE "W16x21"
		LTL	LINTEL	W	WIDTH
		LN	LINOLEUM	W/	WITH
CAB	CABINET	LL	LIVE LOAD	W/O	WITHOUT
CIP	CAST IN PLACE			WD	WOOD
CIPC	CAST IN PLACE CONCRETE			WDP	WOOD PANEL
CI	CURB INLET	MH	MANHOLE	X	EXISTING
CB	CATCH BASIN	MFR	MANUFACTURER		
CLG	CEILING	MAS	MASONRY		
CTR	CENTER	MO	MASONRY OPENING		
CJ	CONTROL JOINT	MTL	METAL		
CL	CENTER LINE	MAX	MAXIMUM		
CPT	CARPET	MECH	MECHANICAL		
CT	CERAMIC TILE	MTC	MECHANICAL TRADES CONTRACTOR		
CLR	CLEAR	MEMB	MEMBRANE		
CLO	CLOSET	MT	MARBLE TILE		
COL	COLUMN	MIN	MINIMUM		
CONC	CONCRETE	MISC	MISCELLANEOUS		
CONN	CONNECTION	MTD	MOUNTED		
CONST	CONSTRUCTION	MTG	MOUNTING		
CM	CONSTRUCTION MANAGER	MUL	MULLION		
CONT	CONTINUOUS OR CONTINUE				
CONTR	CONTRACTOR	NOM	NOMINAL		
CK	CORK	N	NORTH		
CORR	CORRIDOR	N.I.C.	NOT IN CONTRACT		
CNSK	COUNTERSUNK	N.T.S.	NOT TO SCALE		
CRS	COURSE	NO OR #	NUMBER		
DEMO	DEMOLISH OR DEMOLITION	OBS	OBSURE		
DEPT	DEPARTMENT	OFF	OFFICE		
DL	DEAD LOAD	O.C.	ON CENTER		
DIA	DIAMETER	OPNG	OPENING		
DIM	DIMENSION	OPP	OPPOSITE		
DISP	DISPENSER	OSB	ORIENTED STRAND BOARD		
DIV	DIVISION	O.D.	OUTSIDE DIAMETER		
DR	DOOR	OA	OVERALL		
DO	DOOR OPENING	OFD	OVERFLOW DRAIN		
DBL	DOUBLE				
DS	DOWNSPOUT	PT	PAINT		
DRW	DRAWER	PTD	PAINTED		
DWG	DRAWING	PR	PAIR		
DF	DRINKING FOUNTAIN	PNL	PANEL		
DS	DRY STANDPIPE	PBD	PARTICLE BOARD		
DWT	DETECTABLE WARNING TILE	PTN	PARTITION		
		PLAS	PLASTIC		
E	EAST	P-LAM	PLASTIC LAMINATE		
EA	EACH	PL	PLATE		
EIFS	EXTERIOR INSULATION FINISH SYSTEM	PTC	PLUMBING TRADES CONTRACTOR		
ELEC	ELECTRICAL	PLYWD	PLYWOOD		
ETC	ELECTRICAL TRADES CONTRACTOR	PSI	POUNDS PER SQUARE INCH		
EW	ELECTRICAL WATER COOLER	PC	PRECAST		
EW	ELECTRICAL WATER COOLER	PCC	PRECAST CONCRETE		
EL	ELEVATION				
ELEV	ELEVATION	QT	QUARRY TILE		
ELVTR	ELEVATOR	R	RADIUS		
ENCL	ENCLOSURE	RWL	RAIN WATER LEADER		
EMER	EMERGENCY	RFRG	REFRIGERATOR		
EP PT	EPOXY PAINT	RGTR	REGISTER		
EPF	EPOXY FLOORING	REINF	REINFORCED		
EQ	EQUAL	RQD	REQUIRED		
EQUI	EQUIPMENT	RES	RESILIENT		
EXSTG	EXISTING	RA	RETURN AIR		
EXP	EXPANSION	RAG	RETURN AIR GRILLE		
EXP JT	EXPANSION JOINT	RH	RIGHT HAND		
EXPD	EXPOSED	ROW	RIGHT OF WAY		
EXTR	EXTERIOR	R	RISER		
		RD	ROOF DRAIN		
		RM	ROOM		
		R.O.	ROUGH OPENING		
		RB	RUBBER BASE		
FOC	FACE OF CONCRETE	SECT	SECTION		
FOF	FACE OF FINISH	SK	SINK		
FOS	FACE OF STUD	SCHED	SCHEDULE		
FR	FIBERGLASS REINFORCED PANEL	SHTG	SHEATHING		
FIN	FINISH OR FINISHED	SHT	SHEET		
FA	FIRE ALARM	SV	SHEET VINYL		
FE	FIRE EXTINGUISHER	SHWR	SHOWER		
FEC	FIRE EXTINGUISHER CABINET	SIM	SIMILAR		
FHC	FIRE HOSE CABINET	SC	SEALED CONCRETE		
FRF	FIREPROOF	SPM	SINGLE PLY MEMBRANE		
FB	FLAT BAR STOCK	S	SOUTH		
FL	FLOOR	SFRM	SPRAY APPLIED FIRE RESISTIVE MATERIAL		
FD	FLOOR DRAIN	SPEC	SPECIFICATION		
FLUOR	FLUORESCENT	SQ	SQUARE		
FT	FOOT OR FEET	S.S.	STAINLESS STEEL		
FTG	FOOTING	STD	STANDARD		
FDN	FOUNDATION	STA	STATION		
FRM	FRAME	STL	STEEL		
FRMG	FRAMING	STOR	STORAGE		
FS	FULL SIZE	STRUCT	STRUCTURE OR STRUCTURAL		
FURR	FURRING	SUSP	SUSPENDED		
FUTR	FUTURE	SAT	SUSPENDED ACOUSTICAL TILE		
FW	FABRIC WALLCOVERING	SYM	SYMMETRICAL		
GA	GAUGE				
GALV	GALVANIZED				
GEN	GENERAL				
GC	GENERAL CONTRACTOR				
GTC	GENERAL TRADES CONTRACTOR				
GL	GLASS OR GLAZING				
GD	GRADE				
GND	GROUND				
GYP BD	GYPSUM BOARD				

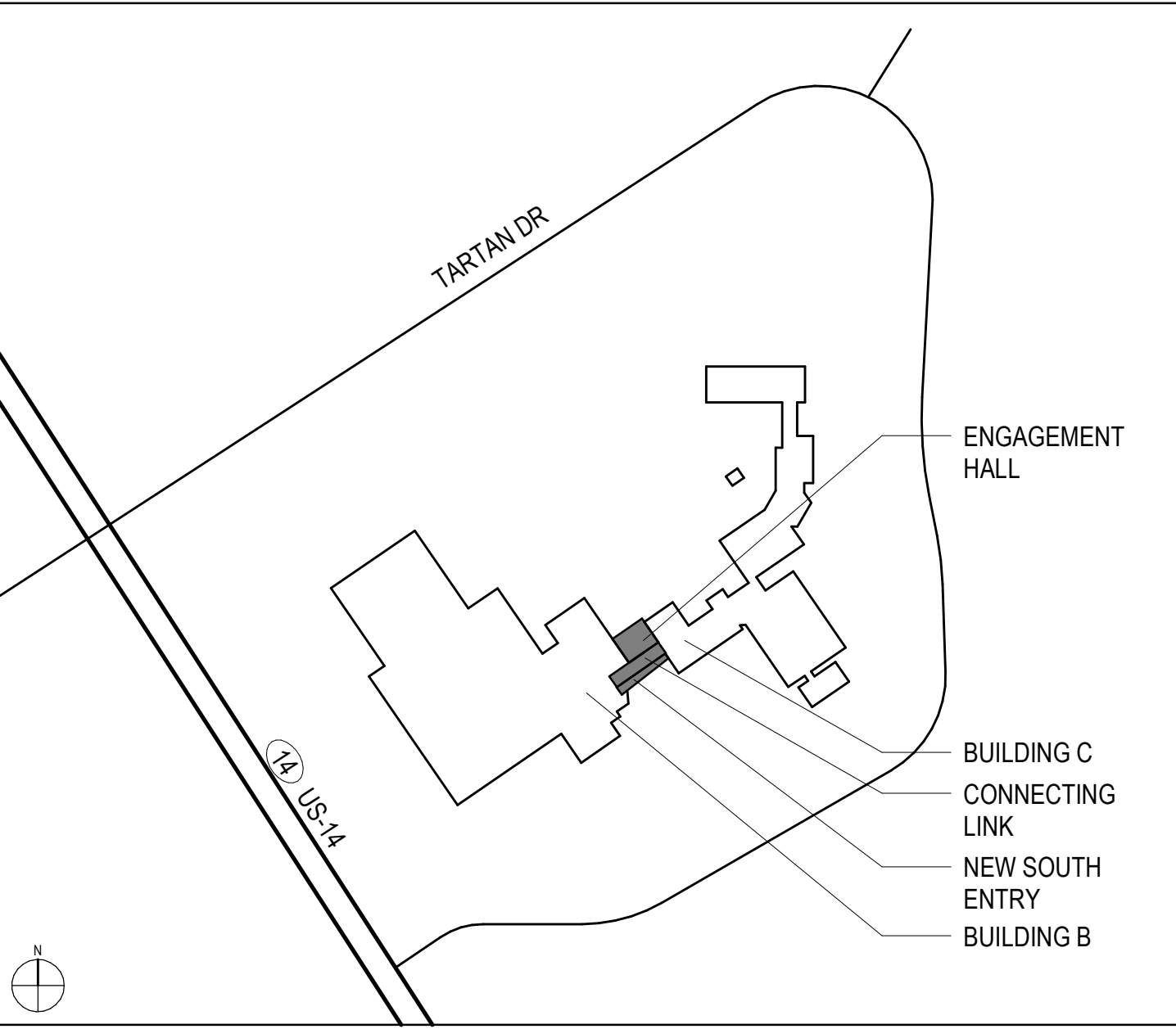
STATE LOCATION MAP



AREA MAP



CAMPUS MAP



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	E5.00	ELECTRICAL SCHEDULES
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DKA PROJECT NO: 24-027

KEY PLAN:

SHEET STATUS: 05/16/2025
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NO.	DESCRIPTION:	DATE:

SHEET TITLE:
SHEET INDEX, ABBREVIATIONS, SYMBOLS & NOTES

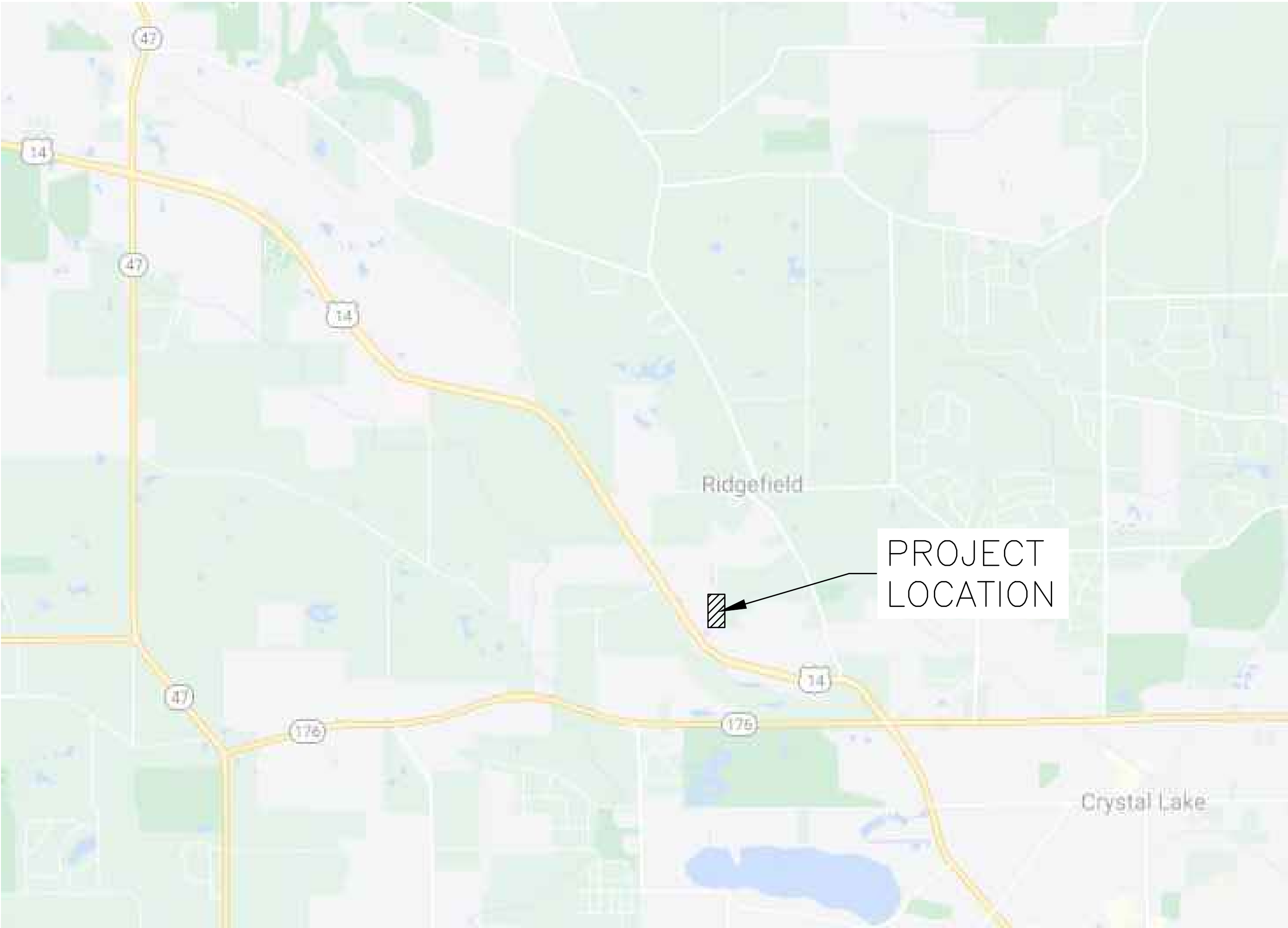
SHEET NUMBER:

G1.01

MCHENRY COUNTY COLLEGE
ENGAGEMENT HALL
8900 US-14
CRYSTAL LAKE, ILLINOIS 60012

PARCEL # 13-25-300-021

LOCATION MAP



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L-101	LANDSCAPE NOTES & DETAILS
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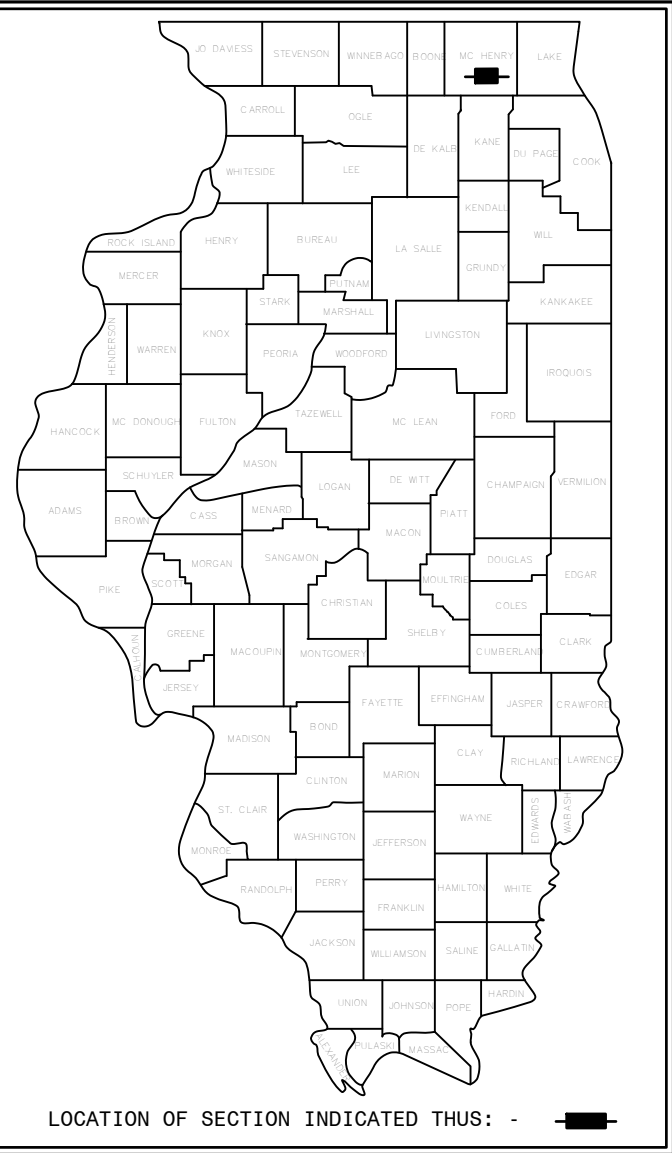
SITE BENCHMARK NOTES:

- SOURCE BENCHMARK: BENCHMARK #4" PER AS SHOWN ON THE PLANS FOR "MCHENRY COUNTY COLLEGE NEW SCIENCE CENTER " DATED AUGUST 11, 2017, BEING A CUT SQUARE ON NORTH FACE OF LIGHT POLE BASE LOCATED IN THE MIDDLE CURB ISLAND LOCATED EAST OF PARKING LOT D, NORTH OF THE RING ROAD AND SOUTH OF BUILDING D.
 - ELEV = 921.24 (NAVD 88)
- SITE BENCHMARK (BM#1): NORTHWEST ARROW BOLT ON THE FIRE HYDRANT LOCATED APPROXIMATELY 90 FEET WESTERLY OF THE ENTRANCE TO BUILDING E.
 - ELEV = 921.49 (NAVD 88)
- SITE BENCHMARK (BM#2): NORTHEAST ARROW BOLT ON THE FIRE HYDRANT LOCATED APPROXIMATELY 70 FEET NORTHEASTERLY OF THE ENTRANCE TO BUILDING B.
 - ELEV = 919.44 (NAVD 88)
- HR GREEN, INC. CONTROL DISCLAIMER: THE ATTACHED BENCHMARKS ARE FOR CONSTRUCTION PURPOSES ONLY. BY USING THE DATA PROVIDED HEREON, USERS ARE RESPONSIBLE FOR VERIFYING THE ACTUAL HORIZONTAL AND VERTICAL LOCATIONS OF PROPOSED IMPROVEMENTS BASED ON THE EXISTING EXTERIOR PROPERTY CORNERS AND SITE BENCHMARKS. HR GREEN, INC. ASSUMES NO RESPONSIBILITY FOR THE IMPROPER USE OF THE INFORMATION HEREIN PROVIDED.

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TODD RICHARDS, P.E. PROJECT ENGINEER
PHONE: (815) 759-8350



Dial 811 or 1-800-892-0123

811

Know what's below.
Call before you dig.

CALL JULIE 1-800-892-0123

WITH THE FOLLOWING:
COUNTY: McHenry
CITY-TOWNSHIP: Crystal Lake - Dorr
SEC. & 1/4 SEC. NO.#: SW 1/4 OF SEC-25-T-44N-7E

48 hours before you dig
(Excluding Sat., Sun. & Holidays)

- NOTE:**
- HR GREEN, INC. IS TO BE NOTIFIED 3 DAYS PRIOR TO CONSTRUCTION START.
 - HR GREEN, INC. SHALL BE INCLUDED IN ALL PRE-CONSTRUCTION MEETINGS.
 - ANY KNOWN DISCREPANCIES ON THIS PLAN SET MUST BE BROUGHT TO THE ATTENTION OF HR GREEN, INC. PRIOR TO THE START OF CONSTRUCTION.



1391 CORPORATE DRIVE, SUITE 203 | MCHENRY, ILLINOIS 60050
Phone: 815.385.1778 | Toll Free: 800.728.7805 | Fax: 815.385.1781 | HRGreen.com

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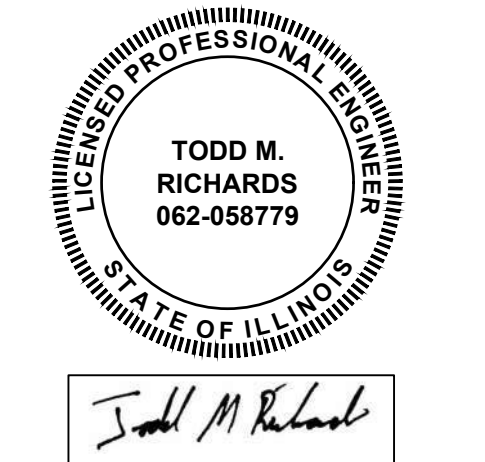
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DKA PROJECT NO: 24 - 027

KEY PLAN:



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NO.	DESCRIPTION:	DATE:

SHEET TITLE:
COVER SHEET

SHEET NUMBER:

C-00

SPECIFICATIONS & GENERAL NOTES

All items of this project shall be governed by specifications included in the documents listed below:

- A. "Standard Specifications for Road and Bridge Construction" prepared by the Department of Transportation of the State of Illinois and adapted to said department (latest revision).
- B. "Supplemental Specifications and Recurring Special Provisions" adopted by the Illinois Department of Transportation (latest revision date).
- C. "Standards and Specifications for Soil Erosion and Sediment Control" (latest revision).
- D. "Standard Specifications for Water and Sewer Main Construction in Illinois" (latest revision).

In addition the following special provisions supplement the said specifications, and in case of conflict with any part or parts of said specifications, these special provisions shall take precedence and shall govern.

- 1. SCOPE OF WORK: The proposed improvement consists of supplying all the necessary labor, material and equipment to satisfactorily construct and install all improvements according to the plans designated as "MCHENRY COUNTY COLLEGE ENGAGEMENT HALL".

- 2. CONSTRUCTION OF UNDERGROUND UTILITIES
- A. Excavation: Where working conditions and right-of-way permit, pipe line trenches with sloping sides may be used.

The slopes shall not extend below the top of the pipe, and trench excavations below this point shall be made with vertical sides with widths not exceeding those specified herein for the various sizes of pipe.

Open-cut trenches shall be sheeted and braced as required by the governing State and Federal laws and municipal ordinances, and as may be necessary to protect life, property, or the work.

Where firm foundation is not encountered at the grade established due to unsuitable soil, all such unsuitable material shall be removed and replaced with approved compacted granular material.

- B. Methods of Work: See trench detail.

- C. Removal of water: Contractors shall, at all times during construction, provide and maintain ample means and devices with which to remove and properly dispose of all water entering the excavations. No action shall be taken for disposal of trench water unless specifically approved by the Engineer and then only if the trench water does not ultimately arrive at existing pumping or sewage treatment facilities.

- D. Bedding of pipe: All pipe shall be installed on a bed of approved, compacted granular material unless otherwise approved by the City Engineer. The bedding and backfilling of excavated materials shall be cleared with City first and be installed as per typical trench backfill detail.

- E. Special backfill: Whenever the excavation is in existing or proposed street, parking areas, driveways, or other paved areas, the trench shall be backfilled with approved selected granular material, compacted in place. The top 12" of the backfill shall be filled with road grade crushed stone and maintained as a temporary surface for the normal use of the area. Special backfill shall meet the requirements of the detail 16-C-1 found on Sheet C-11. Note: Excavated materials may be used if approved by the City Engineer.

- F. Restoration of drainage: As soon as possible after backfilling the trench, all ditching, grading and shaping necessary to restore the original drainage in the area of work shall be performed. Culverts removed during the course of the work shall be replaced as soon as practicable.

Adequate temporary drainage facilities shall be provided during construction.

- G. Utilities: The Contractor shall notify all utilities prior to the installation of any pipe lines. Where conflict exists between underground utilities and the proposed underground piping requiring a revision to the plans, such construction shall not be undertaken until all changes are approved by the City Engineer in writing.

- 3. The subgrade shall be free of unavailable material and shall be prepared in accordance with the recommendations noted in the geotechnical report prepared by Midwest Standards dated April 23, 2013 for this project. Testing for compaction shall be the responsibility of the contractor. The City of Crystal Lake will require a proof-roll test if warranted by final soil compaction. This also applies to the parking lot and aisle subgrade and also upon gravel placement. All topsoil and any organic materials must be removed.

- 4. Easements for the existing utilities, both public and private, and utilities within public rights-of-way are shown on the plans according to available records. The Contractor shall be responsible for determining the exact location in the field of these utilities and their protection from damage due to construction operations. If existing utility lines of any nature are encountered which conflict in location with new construction, the Contractor shall notify the Engineer so that the conflict may be resolved.

- 5. Contractor shall be responsible for securing all Permits including municipal permits.

- 6. INSPECTION: All improvements shall be subject to inspection by a duly authorized and qualified City inspector both during the course of construction and after construction is complete. The Inspector shall have authority over materials of construction, methods of construction and workmanship to insure compliance with working drawings and specifications. The Contractor shall provide for reasonable tests and quality of materials as requested by the Inspector. Inspector shall have forty-eight (48) hours notice prior to construction.

- 7. Wherever a sewer crosses under a water main, the minimum vertical distance from the top of the sewer to the bottom of the water main shall be 18". Furthermore, a minimum horizontal distance of 10' between sanitary sewers and water mains shall be maintained. If either the vertical or horizontal distances described above cannot be maintained, or the sewer crosses above the water main, the sewer pipe shall be pipe of water main type quality and water main quality joints, or the water main shall be encased in a steel sleeve for a perpendicular distance of 10' on each side of the sewer.

- 8. SAN. MH. TA. 48" DIA. Manholes shall be constructed of prefabricated concrete sections meeting the requirements of ASTM C-478. Sections shall be reinforced with fiber-reinforced plastic preplaced bituminous plastic gaskets. The manhole bottom shall be precast with the first rise section. Manholes shall have the pipe cast in place through the manhole or a water tight joint cast in the manhole wall to receive the pipe. Manhole frames and lids shall be of self-sealing type Neenah 712 or equal with approval by the municipality, with Type B lid and concealed pickhole with the word "Sanitary" cast in the lid (See City detail). Testing: Vacuum testing of sanitary manholes shall be completed by the contractor meeting the requirements of ASTM C-244.

- 9. All manholes to be concentric, lids to have utility name.

- 10. All manholes and valve vaults shall be equipped with steps.

- 11. STORM SEWER FRAMES AND LIDS: All frames not falling in the flow line of the curb and gutter shall be Neenah 712's or as noted on the plans with a 1" dipshole and the word "Storm" cast in the lid. All curb inlets, and catch basins in gutter lines shall be Neenah R-3281 Frame and Grate, or as noted on plans, with ENVR logo when pipe 6"-12" curb and gutter is specified. All storm sewer grates shall have the ENVR logo on them. All bituminous paving compounds for manholes and catch basins shall be RAM-NEK or C-2 STICK.

- 12. PROTECTION OF WATER MAIN AND WATER SERVICE LINES: Water mains and water service lines shall be protected from sanitary sewers, storm sewers, combined sewers, house sewer service connections and drains as follows:

- A. Water Service Lines
- 1. Horizontal Separation
 - a. Water mains shall be laid at least 10' horizontally from any existing or proposed drain, storm sewer, sanitary sewer, combined sewer or sewer service connection.
 - b. Water mains may be laid closer than 10' to a sewer line when:
 - (1) Local conditions present a lateral separation of 10'.
 - (2) The water main invert is at least 18" above the crown of the sewer, and

- (3) The water main is either in a separate trench or in the same trench on an undisturbed earth shall (located to one side of the sewer with a minimum vertical separation of 18".
- c. Both the water main and drain or sewer shall be constructed of slip-on or mechanical joint cast or ductile iron pipe, or PVC pipe meeting the requirements of Section 653.111 when it is impossible to meet (a) or (b) above. The drain or sewer shall be pressure tested to the maximum expected surcharge head before backfilling.

- 2. Vertical Separation.

- a. A water main shall be laid so that its invert is 18" above the crown of the drain or sewer whenever water mains cross storm sewers, sanitary sewers or sewer service connections. The vertical separation shall be maintained for that portion of the water main located within 10' horizontally of any sewer or drain crossed. A length of water main pipe shall be centered over the sewer to be crossed with joints equidistant from the sewer or drain.
- b. Both the water main and sewer shall be constructed of slip-on or mechanical joint cast or ductile iron pipe, or PVC pipe meeting requirements of Section 653.111 when:

- (1) It is impossible to obtain the proper vertical separation as described in (a) above; and
- (2) The water main passes under a sewer or drain.

- c. A vertical separation of 18" between the invert of the sewer or drain and the crown of the water main shall be maintained where a water main crosses under a sewer. Support the sewer or drain lines to prevent settling and breaking the water main.

- d. Construction shall extend on each side of the crossing until the normal distance from the water main to the sewer or drain line is at least 10'.

- B. Special Conditions: Alternate solutions shall be presented to the Agency when extreme topographical, geological or existing structural conditions make strict compliance with (A) and (B) above technically and economically impractical. Alternate solutions will be approved provided water-tight construction structurally equivalent to approved water main material is proposed.

- 17. The Contractor may not remove any material from the site except as directed by the Owner or Engineer in the case of excess material.

- 18. TOPSOIL PLACEMENT: See HiltexCAD Design Group plans and specifications for topsoil depths and composition for landscaping (seeding, soil, etc.).

- 19. The Engineer and City of Crystal Lake Engineering Department shall be notified if, during construction, any buried field lines are exposed or disturbed. The Contractor shall reconnect said field lines if deemed necessary.

- 20. Contractor shall provide insurance coverage as per Article 107.27 of the Standard Specifications. The Department shall be taken to mean HR Green, Inc. The policy of insurance shall include HR Green, Inc., the City of Crystal Lake and it's Agents as an additional insured or provide separate coverage with an Owner's Protective Policy, as per the amounts stated in the Standard Specifications. No work shall begin until the certificate of insurance is on file with the Engineer. All costs for insurance shall be considered incidental to the contract.

- 21. All handicapped parking signs must have a \$250.00 fine sign attached.

- 22. Lighting shall be constructed as per the electrical plan, done under separate contract by Electrical Consultant. All conduit shall be placed outside of any municipal easements except for authorized 90° crossings.

- 23. The Contractor shall be responsible for the installation and maintenance of adequate signs, traffic control devices, and warning devices to inform and protect the public during all phases of construction. See City Standard Traffic Control detail for lane closures of public roads.

- 24. The Engineer shall be responsible for the following:

- A. To visit the construction site in order to better carry out the duties and responsibilities assigned by the Owner and undertaken by the Engineer; and
- B. The Engineer shall not, during such visits or as a result of such observations of the Contractor's work in progress, supervise, direct, have control over the Contractor's work, nor shall the Engineer have the authority over the responsibility for the means, methods, techniques, sequences, or procedures of construction selected by the Contractor, for safety, precautions and programs incidental to the work of the Contractor, or for any failure of the Contractor to comply with laws, rules, regulations, ordinances, codes or orders applicable to the Contractor furnishing and performing his work. Accordingly, the Engineer can neither guarantee the performance of the construction contracts by the Contractor nor assume responsibility for the Contractor's failure to furnish and perform his work in accordance with the Contract Documents.

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- 27. No construction plans shall be used for construction unless specifically marked "For Construction." Prior to commencement of construction, the Contractor shall verify all dimensions and conditions affecting the work with the actual conditions at the job site. In addition, the Contractor must verify the Engineer's line and grade stakes. If there are any discrepancies from what is shown on the construction plans, he must immediately report same to the Engineer before doing any work, otherwise the Contractor assumes full responsibility. In the event of disagreement between the construction plans, standard specifications and/or special details, the Contractor shall secure written instructions from the Engineer prior to proceeding with any part of the work affected by omissions or discrepancies. Failing to secure such instructions, the Contractor will be considered to have proceeded at his own risk and expense.

- In the event of any doubt or question arising with respect to the true meaning of the construction plans or specifications, the decision of the Engineer shall be final and conclusive.

- 28. The Contractor shall indemnify and hold harmless the City, City's Engineers their agents and it's employees, HR Green, Inc. and McHenry County College, from and against all claims, damages, losses and expenses, including attorney's fees arising out of or resulting from the performance of the Contractor's work. In any and all claims against the City or its employees, by any employee of the Contractor, or anyone directly or indirectly employed by the Contractor, or anyone for whose acts the Contractor may be liable, the indemnification obligation shall not be limited in any way by limitation on the amount of damages, waiver of subrogation compensation or benefits payable by or for the Contractor under Workmen's Compensation acts, disability benefit acts or other employee benefit acts.

- 29. Staking of removal items as noted on the plans, specified in Section 440 of the Standard Specifications, or as required by the engineer, shall be considered incidental to the cost of the item being removed, and no extra compensation will be allowed, unless otherwise specified.

- 30. SIGN PANELS - TYPE I, METAL POST - TYPE B: This work shall consist of furnishing and installing Type I sign panels on I-channel, and break away sign supports as indicated on the plans. Sign assemblies shall meet the requirements of Standard Specifications for Traffic Control Items. Installation of sign assemblies shall be as specified on the plans, in accordance with the Illinois Manual on Uniform Traffic Control Devices and as directed by the Engineer.

- Furnishing, fabricating and installing sign assemblies will be paid for at the contract unit price per square foot for Sign Panel - Type I which price will be payment in full for all labor and material necessary to fabricate and install each sign assembly specified on the plans. The posts, including the break away assembly, shall be paid for at the unit price per foot for Metal Post - Type B.

- 31. PROTECTIVE COAT: This work shall be in accordance with Section 420 of the Standard Specifications which is applicable with the following revision:

- The protective coat shall be applied to all exposed surfaces of Combination Concrete Curb and Gutter, Concrete Median and Concrete Curved Median.

- This work will be paid for at the contract unit price per square yard for Protective Coat.

- 32. COMBINATION CONCRETE CURB AND GUTTER: Concrete curb, concrete gutter and combination concrete curb and gutter shall be constructed, measured and paid for in accordance with Section 606 of the Standard Specifications except as follows:

- Revise the last sentence of the second paragraph of Article 606.07 to read as follows: "The traverse joints shall be contraction joints spaced on 12'-foot centers."

- Any City requirements regarding expansion & contraction joints shall govern construction.

- 33. A performance guarantee shall be required (letter of credit) for all public utilities. Also, a two-year maintenance bond shall be established upon completion of work.

- 34. All pavement markings on main access drives, approaches and parking lot shall be painted with two (2) coats of WHITE SHERWIN WILLIAMS "TROMAR" TRAFFIC MARKING.

- Pavement Striping: All proposed pavement striping to be painted.

- All Handicap striping shall be yellow.

- 35. All curbs & gutter crossings over trench locations shall be reinforced with 2-#4 rebar extended 2' beyond each side of trench.

- 36. Where storm sewer is located above the water main, the reinforced concrete pipe shall have 6"-ribs to provide a water tight seal and to create a water quality pipe.

- 37. CURB RAMPS: All sidewalks shall be installed to accommodate the handicapped. A type "A" ramp shall be installed in accordance with I.D.O.T. Standard Detail #24001-301, or the detail shown on the plan. Color of truncated domes shall be contrasting with the adjacent surface. Contractor to coordinate color with sewer prior to ordering truncated dome panels.

- 38. SIDEWALKS: Unless otherwise shown on the plans, the proposed sidewalks in front of the site shall be constructed when the site work is substantially complete.

- ALL PUBLIC AND PRIVATE SIDEWALKS SHALL BE CONSTRUCTED WITH A MAXIMUM RUNNING SLOPE OF NO GREATER THAN 1:20 (F/T) - 5% GRADE/IN

- All materials shall meet the requirements of the "Standard Specifications for Road and Bridge Construction" of the Illinois Department of Transportation. Concrete shall be at least a six (6) bag mix, 48 to 68 or entrained, and shall have a slump of no less than two (2) inches nor more than four (4) inches. Fiberglass reinforced additives shall be used on all sidewalks extending through driveways. Sidewalks shall be placed on a minimum of four (4") inches of CA-6 crushed stone or Grade 9 compactable crushed stone. Driveway crossings for sidewalks shall be 6" P.C.C. with (4") inches of CA-6 crushed stone or Grade 9 compactable crushed stone.

- Pre-molded bituminous expansion joints one-half (1/2") inch thick shall be placed every 50 feet minimum and one-half (1/2") inch thick between the sidewalk and all structures, which extend through the sidewalk. Control joints shall be on five (5') foot centers.

- The side edges of the sidewalk shall have rounded edges and the surface shall be "broom" finished. Protection and Curing: All exposed surfaces of concrete shall be protected against rain. The concrete shall be cured for a minimum period of three days after placing by one of the following methods:

- Wet burlap
- Impermeous paper
- Membrane curing compound

- When the temperature of the air is expected to drop below 40 degrees F. within 24 hours placing the concrete shall be protected with nine inches of loose, dry straw and a layer of burlap other acceptable material, for a period of at least five days.

- 39. The concrete sealer, in addition to conforming with the referenced Standard Specification section, shall be selected from the current IDOT approved product list for Plural Component Concrete Sealers, or equal. The concrete sealer must dry to a clear finish. All exterior concrete surfaces as well as the segmental block retaining wall shall be sealed. The contractor shall provide documentation from the sealer provider, segmental block wall supplier and concrete government supplier noting the sealer is compatible with all exterior concrete surfaces that it is to be applied to. Contractor to also provide cut sheets of the sealer sealer to the engineer for approval prior to ordering.

- 40. All surplus soil that will need to be hauled and disposed of offsite will need to be certified that it is not contaminated as defined under 415 ICS 5/3.160 and any fees, taxes, surcharges charged by or through the operator(s) of clean construction or demolition debris (CCDD) or uncontaminated soil fill operations for the acceptance of uncontaminated soil shall be paid for by the contractor and those fees included in their bid price.

- 41. It is the intent to recycle the bituminous grindings and existing parking lot aggregate base for re-use as structural fill and/or aggregate base course. Contractor to coordinate with on-site geo-technical engineer to verify usability of re-use material as aggregate base course.

TAG EXPLANATION LEGEND:

EXAMPLE 1 (SANITARY & STORM MANHOLES):

SAN. MAN. TA. 4" DIA. TIE CL =

PROPOSED SANITARY MANHOLE, 4" DIAMETER, TYPE 1 FRAME, CLOSED LID

EXAMPLE 2 (STORM SEWER, SANITARY SEWER, WATERMAIN):

120 LIN. FT. SAN. SEWER MAIN 6" =

PROPOSED 120 LINEAL FEET SANITARY SEWER 6"

EXAMPLE 3 (STORM CATCH BASINS):

PROPOSED CATCH BASIN, TYPE A, 4" DIAMETER, TYPE 11 FRAME & GRATE

PREC. CONC. FES 15" =

EXAMPLE 4 (STORM FLARED END SECTIONS):

PROPOSED PRECAST CONCRETE FLARED END SECTION 15"

SYMBOL LEGEND

EXISTING	PROPOSED
SANITARY MANHOLE	●
STORM MANHOLE	●
STORM CATCH BASIN/INLET	●
INLET	○
FLARED END SECTION	▷
DRY WELL	○
VALVE VAULT	○
FIRE HYDRANT	▽
LIGHT POLE	✱
STREET SIGN	+
REGULATORY SIGN	+
UTILITY POLE	+
UTILITY BOX	□
MAILBOX	□
WELL	⊕
STORM SEWER	—
SANITARY SEWER	—
CULVERT	=====
WATER MAIN	—
WATER MAIN ENCASEMENT	=====
SANITARY FORCE MAIN	—
STORM UNDERDRAIN	—
ELECTRIC LINE	—
TELEPHONE LINE	—
GAS LINE	—
CABLE TV LINE	—
TREE	—
CONTOURS	—
FENCE	—
STONE RIP RAP	—
EROSION CONTROL FENCE (QUANTITY SPECIFIED PER PLANS)	—
DRAINAGE DIRECTION ARROW	—
100-100 YEAR OVERFLOW DIRECTION ARROW	—

THE SPECIFICATIONS ON THIS SHEET ARE IN CONJUNCTION WITH THE SPECIFICATIONS OUTLINED IN THE PROJECT MANUAL. THE INTENT IS FOR THE SPECIFICATIONS TO WORK TOGETHER AND IF ANY DISCREPANCIES ARISE BETWEEN SPECIFICATION THE CONTRACTOR SHALL BRING IT TO THE ATTENTION OF THE ENGINEER. FINAL DETERMINATION AS TO WHICH SPECIFICATION WILL PREVAIL WILL BE DETERMINED BY THE ENGINEER.

Topsoil-Compost Layer		
The surface layer shall be a minimum of an 8-inch thick layer that conforms with the following:		
Particle Size	98% passing 0.75 inch sieve	
Physical Strength, N	800 min.	ASTM D4632
Puncture Strength, N	300 min.	ASTM D4833
Contaminants	No glass, metal or plastic	
Mixture	50% Compost	
	40% Sand	
	10% Topsoil	
Apparent Opening Size, µm	300 max.	ASTM D4751
Permittivity, S-1	1.35 min.	ASTM D4491
Moisture Content	No more than 40% by weight	
Compost	Resistant to further degradation	
Fecal Coliform	<1000 Most Probable number/gram of total solids	
Metals	As<40ppm Cd<40ppm Pb<100ppm Hg<100ppm Zn<380ppm Fe<20,000-40,000ppm	

FILTER FABRIC MATERIAL REQUIREMENTS		
Geotextile Property	Value	Test Method
Grab Tensile Strength, N	800 min.	ASTM D4632
Puncture Strength, N	300 min.	ASTM D4833
Apparent Breaking Elongation, Percent	30 min.	ASTM D4632
Apparent Opening Size, µm	300 max.	ASTM D4751
Permittivity, S-1	1.35 min.	ASTM D4491



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DKA PROJECT NO: 24 - 027

MCHENRY COUNTY STORMWATER ORDINANCE APPENDIX NOTES

Appendix 2: Standard Soil Erosion and Sediment Control Notes

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Appendix 2: Standard Soil Erosion and Sediment Control Notes

\$17.60.160 Standard Soil Erosion and Sediment Control Notes

- Control measures shall meet the minimum standards and specifications of the Illinois Urban Manual unless stated otherwise.
- Soil disturbance shall be conducted in such a manner as to minimize erosion. Areas of the development site that are not to be disturbed shall be protected from construction traffic or other disturbance until final stabilization is achieved.
- Soil stabilization measures shall consider the time of year, development site conditions and the use of temporary or permanent measures.
- Stabilization by seeding shall include topsoil placement and fertilization, as necessary.
- Native seed mixtures shall include rapid-growing annual grasses or small grains to provide initial, temporary soil stabilization.
- Offsite property shall be protected from erosion and sedimentation. Velocity distribution devices shall be placed at concentrated discharge locations and along the length of any outfall channel, as necessary to prevent erosion.
- Sediment control measures shall be installed prior to the disturbance of tributary areas.
- Stabilization of disturbed areas shall be initiated immediately whenever any clearing, grading, excavating or other earth disturbing activities have permanently ceased on any portion of the development site, or temporarily ceased on any portion of the development site and will not remain for a period exceeding 14 calendar days. Stabilization of disturbed areas shall be initiated within 1 working day of permanent cessation of earth disturbing activities and shall be completed as soon as possible, but not later than 14 calendar days from the initiation of stabilization work in an area. Exceptions to these time frames are specified below:
 - a. Where the initiation of stabilization measures is precluded by snow cover, stabilization measures shall be initiated as soon as practicable; and
 - b. In areas where construction activity has temporarily ceased and will resume after 14 days a temporary stabilization method may be used.
- Disturbance of steep slopes shall be minimized. Areas or embankments having slopes steeper than 3:1 shall be stabilized with stakes in place soil, erosion control blanket in combination with seeding or an equivalent control measure.
- Perimeter control measures shall be provided downslope and perpendicular to the flow of runoff from disturbed areas, where the tributary area is greater than 5,000 square feet and where runoff will flow in a sheet flow manner. Perimeter erosion control shall also be provided at the base of soil stockpiles.
- The stormwater management system shall be protected from erosion and sedimentation downslope from disturbed areas. Inlet protection that reduces sediment loading while allowing runoff to enter the inlet shall be required for all storm sewers. Check dams, or an equivalent control measure, shall be required for all ditches. Filter fabric inlet protection and straw bale ditch checks are not acceptable control measures.
- If dewatering services are used, discharges shall be routed through an effective sediment control measure (e.g., sediment trap or an equivalent control measure). The

Refer to Appendix 12 for the definition of underlined terms or to Appendix 13 for a list of acronyms.
Refer to Appendix 1 for permitting footnotes.

Appendix 2: Standard Soil Erosion and Sediment Control Notes

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Appendix 2: Standard Soil Erosion and Sediment Control Notes

Enforcement Officer shall be notified prior to the commencement of dewatering activities.

- All temporary soil erosion and sediment control measures shall be removed within 30 days after final stabilization of the development site is achieved or after the temporary measures are no longer necessary. Trapped sediment shall be removed and disturbed areas shall be permanently stabilized.
- All abandoned drain tiles within disturbed areas shall be removed in their entirety.
- Soil stabilization measures shall be utilized to minimize the discharge of pollutants from the development site. At a minimum, control measures shall be implemented in order to:
 - a. Minimize the discharge of pollutants from equipment and vehicle washing, wheel wash water, and other wash water; and
 - b. Minimize the exposure of building materials, building products, construction wastes, trash, landscape materials, fertilizers, pesticides, herbicides, detergents, vehicle fluids, sanitary waste, and other materials present on the development site to precipitation and to stormwater.
- Adequate receptacles shall be provided for the depositing of all construction material debris generated during the development process. The applicant shall not cause or permit the dumping, depositing, dropping, throwing, discarding or leaving of construction material debris upon or into any development site channel or waterway. The development site shall be maintained free of construction material debris.
- The Enforcement Officer may require additional or alternate soil erosion and sediment control measures, based on development site specific considerations and the effectiveness of the installed control measures.
 - a. Where the initiation of stabilization measures is precluded by snow cover, stabilization measures shall be initiated as soon as practicable; and
 - b. In areas where construction activity has temporarily ceased and will resume after 14 days a temporary stabilization method may be used.
- Disturbance of steep slopes shall be minimized. Areas or embankments having slopes steeper than 3:1 shall be stabilized with stakes in place soil, erosion control blanket in combination with seeding or an equivalent control measure.
- Perimeter control measures shall be provided downslope and perpendicular to the flow of runoff from disturbed areas, where the tributary area is greater than 5,000 square feet and where runoff will flow in a sheet flow manner. Perimeter erosion control shall also be provided at the base of soil stockpiles.
- The stormwater management system shall be protected from erosion and sedimentation downslope from disturbed areas. Inlet protection that reduces sediment loading while allowing runoff to enter the inlet shall be required for all storm sewers. Check dams, or an equivalent control measure, shall be required for all ditches. Filter fabric inlet protection and straw bale ditch checks are not acceptable control measures.
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Appendix 3: Standard Drain Tile Notes

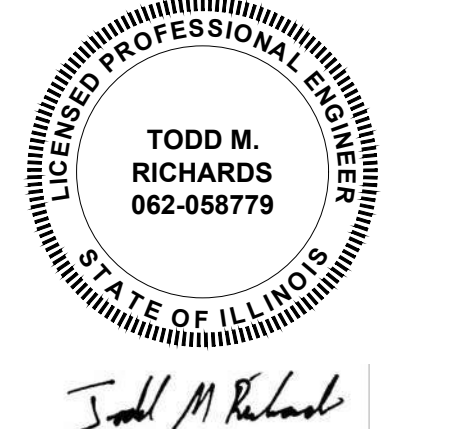
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Appendix 3: Standard Drain Tile Notes

\$17.60.170 Standard Drain Tile Notes

- Drain tiles disturbed during regulated development shall be reconnected by those responsible for their disturbance, unless the development plans specify abandonment of the drain tiles.
- All abandoned drain tiles within disturbed areas shall be removed in their entirety.
- Drain tiles within the disturbed area of a development site shall be replaced, bypassed around the development site or intercepted and connected to the drainage management system for the development site. The size of the replaced or bypassed drain tile shall be equivalent to the existing drain tile.

KEY PLAN:



SHEET STATUS: 05/16/2025
ISSUED FOR BID - NOT
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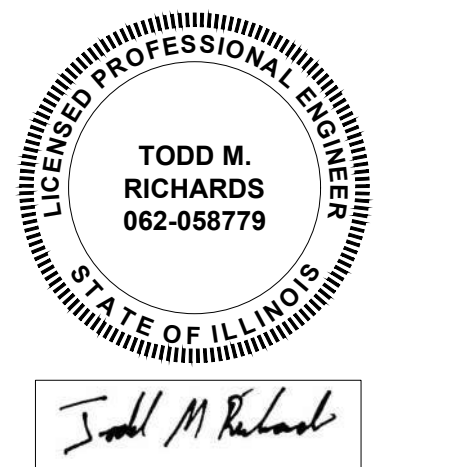
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DKA PROJECT NO: 24 - 027

KEY PLAN:



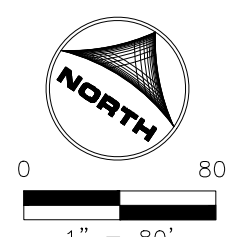
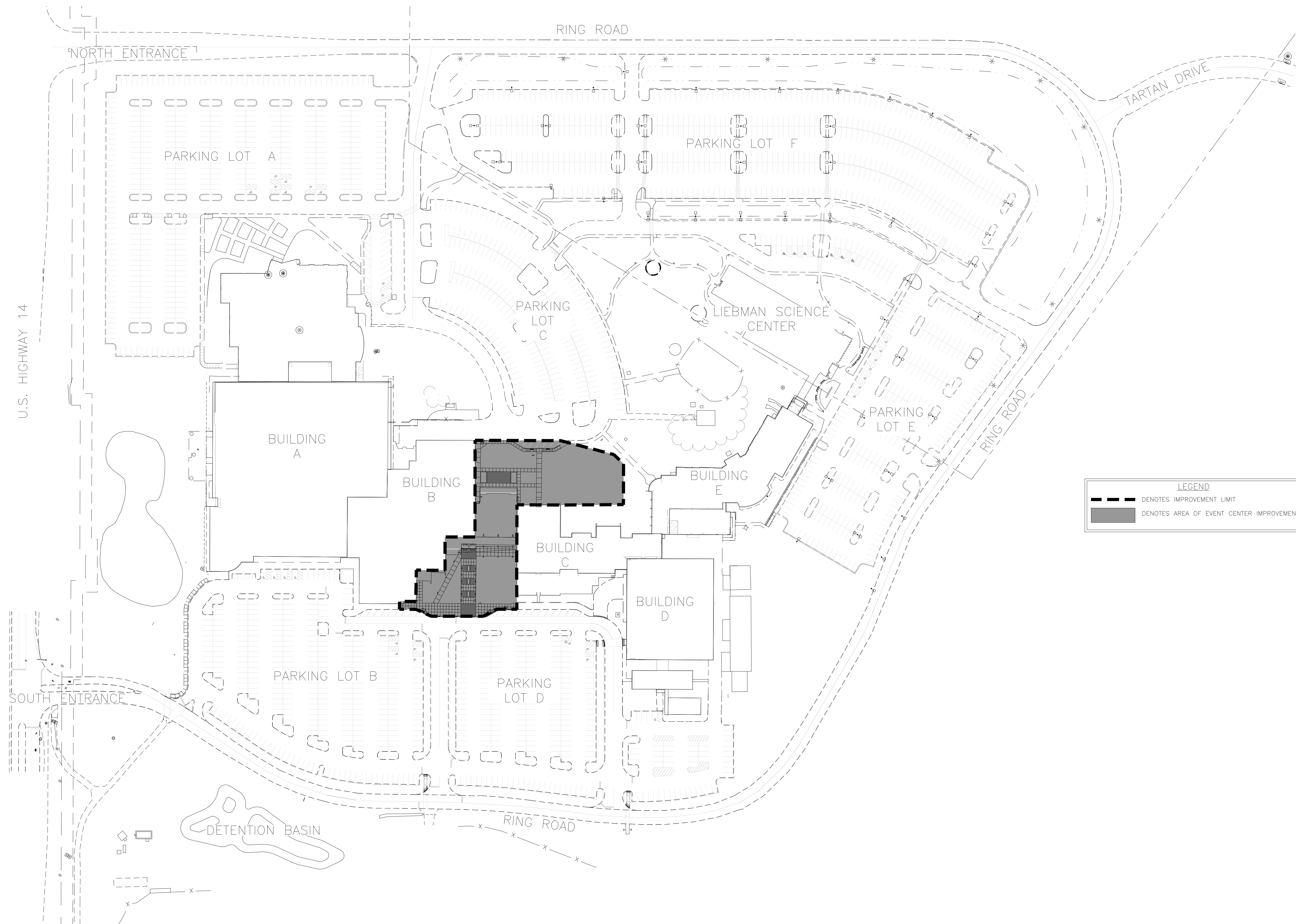
SHEET STATUS: 05/16/2025
**ISSUED FOR BID - NOT
FOR CONSTRUCTION**

NO.	DESCRIPTION:	DATE:

SHEET TITLE:
OVERALL SITE PLAN

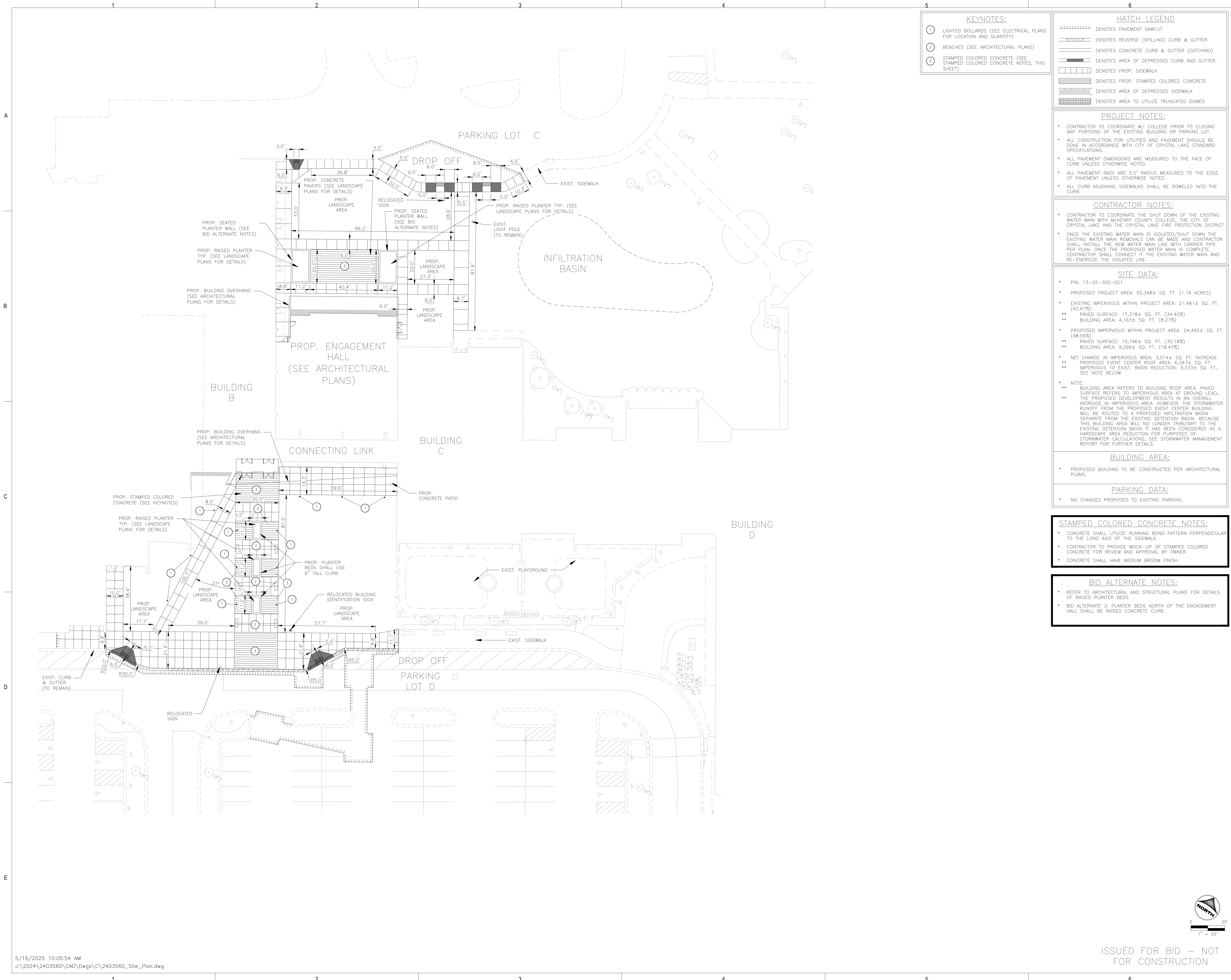
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- KEYNOTES:**
- ① LIGHTED BOLLARDS (SEE ELECTRICAL PLANS FOR LOCATION AND QUANTITY)
 - ② BENCHES (SEE ARCHITECTURAL PLANS)
 - ③ STAMPED COLORED CONCRETE (SEE STAMPED COLORED CONCRETE NOTES, THIS SHEET)

- HATCH LEGEND**
- DENOTES PAVEMENT SAWCUT
 - DENOTES REVERSE (SPILLING) CURB & GUTTER
 - DENOTES CONCRETE CURB & GUTTER (CATCHING)
 - DENOTES AREA OF DEPRESSED CURB AND GUTTER.
 - DENOTES PROP. SIDEWALK
 - DENOTES PROP. STAMPED COLORED CONCRETE
 - DENOTES AREA OF DEPRESSED SIDEWALK
 - DENOTES AREA TO UTILIZE TRUNCATED DOMES

- PROJECT NOTES:**
- * CONTRACTOR TO COORDINATE W/ COLLEGE PRIOR TO CLOSING ANY PORTIONS OF THE EXISTING BUILDING OR PARKING LOT.
 - * ALL CONSTRUCTION FOR UTILITIES AND PAVEMENT SHOULD BE DONE IN ACCORDANCE WITH CITY OF CRYSTAL LAKE STANDARD SPECIFICATIONS.
 - * ALL PAVEMENT DIMENSIONS ARE MEASURED TO THE FACE OF CURB UNLESS OTHERWISE NOTED.
 - * ALL PAVEMENT RADI ARE 5.0' RADIUS MEASURED TO THE EDGE OF PAVEMENT UNLESS OTHERWISE NOTED.
 - * ALL CURB ADJOINING SIDEWALKS SHALL BE DOWELED INTO THE CURB.

- CONTRACTOR NOTES:**
- * CONTRACTOR TO COORDINATE THE SHUT DOWN OF THE EXISTING WATER MAIN WITH MCHENRY COUNTY COLLEGE, THE CITY OF CRYSTAL LAKE AND THE CRYSTAL LAKE FIRE PROTECTION DISTRICT.
 - * ONCE THE EXISTING WATER MAIN IS ISOLATED/SHUT DOWN THE EXISTING WATER MAIN REMOVALS CAN BE MADE AND CONTRACTOR SHALL INSTALL THE NEW WATER MAIN LINE WITH CARRIER PIPE PER PLAN, ONCE THE PROPOSED WATER MAIN IS COMPLETE CONTRACTOR SHALL CONNECT IT THE EXISTING WATER MAIN AND RE-ENERGIZE THE ISOLATED LINE.

- SITE DATA:**
- * PIN: 13-25-300-021
 - * PROPOSED PROJECT AREA: 50,348± SQ. FT. (1.16 ACRES)
 - * EXISTING IMPERVIOUS WITHIN PROJECT AREA: 21,481± SQ. FT. (42.67%)
 - ** PAVED SURFACE: 17,318± SQ. FT. (34.40%)
 - ** BUILDING AREA: 4,163± SQ. FT. (8.27%)
 - * PROPOSED IMPERVIOUS WITHIN PROJECT AREA: 24,495± SQ. FT. (48.56%)
 - ** PAVED SURFACE: 15,196± SQ. FT. (30.18%)
 - ** BUILDING AREA: 9,299± SQ. FT. (18.47%)
 - * NET CHANGE IN IMPERVIOUS AREA: 3,014± SQ. FT. INCREASE
 - ** PROPOSED EVENT CENTER ROOF AREA: 6,347± SQ. FT.
 - ** IMPERVIOUS TO EXIST. BASIN REDUCTION: 3,333± SQ. FT. SEE NOTE BELOW.
 - * NOTE: BUILDING AREA REFERS TO BUILDING ROOF AREA. PAVED SURFACE REFERS TO IMPERVIOUS AREA AT GROUND LEVEL. THE PROPOSED DEVELOPMENT RESULTS IN AN OVERALL INCREASE IN IMPERVIOUS AREA. HOWEVER, THE STORMWATER RUNOFF FROM THE PROPOSED EVENT CENTER BUILDING WILL BE ROUTED TO A PROPOSED INFILTRATION BASIN SEPARATE FROM THE EXISTING DETENTION BASIN. BECAUSE THIS BUILDING AREA WILL NO LONGER TRIBUTARY TO THE EXISTING DETENTION BASIN IT HAS BEEN CONSIDERED AS A HARDSCAPE AREA REDUCTION FOR PURPOSES OF STORMWATER CALCULATIONS. SEE STORMWATER MANAGEMENT REPORT FOR FURTHER DETAILS.

- BUILDING AREA:**
- * PROPOSED BUILDING TO BE CONSTRUCTED PER ARCHITECTURAL PLANS.

- PARKING DATA:**
- * NO CHANGES PROPOSED TO EXISTING PARKING.

- STAMPED COLORED CONCRETE NOTES:**
- * CONCRETE SHALL UTILIZE RUNNING BOND PATTERN PERPENDICULAR TO THE LONG AXIS OF THE SIDEWALK.
 - * CONTRACTOR TO PROVIDE MOCK-UP OF STAMPED COLORED CONCRETE FOR REVIEW AND APPROVAL BY OWNER.
 - * CONCRETE SHALL HAVE MEDIUM BROOM FINISH.

- BID ALTERNATE NOTES:**
- * REFER TO ARCHITECTURAL AND STRUCTURAL PLANS FOR DETAILS OF RAISED PLANTER BEDS.
 - * BID ALTERNATE 3: PLANTER BEDS NORTH OF THE ENGAGEMENT HALL SHALL BE RAISED CONCRETE CURB.



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P: 312.496.0000

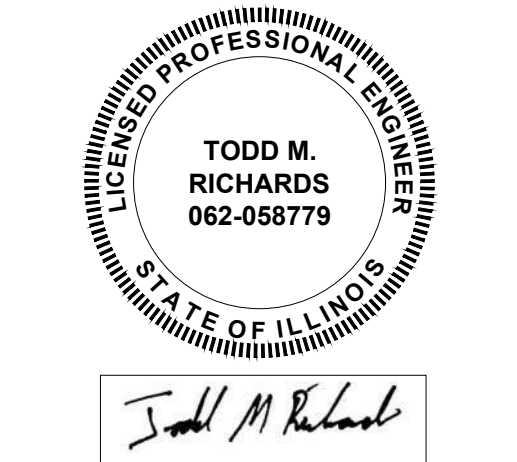
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IMEG CORP.
263 SHUMAN BLVD, SUITE 550
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P: 630.527.2320

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CONSTRUCTION MANAGER
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McHenry County College
ENGAGEMENT HALL
8900 NORTHWEST HWY #14
CRYSTAL LAKE, IL 60012
DKA PROJECT NO: 24 - 027

KEY PLAN:



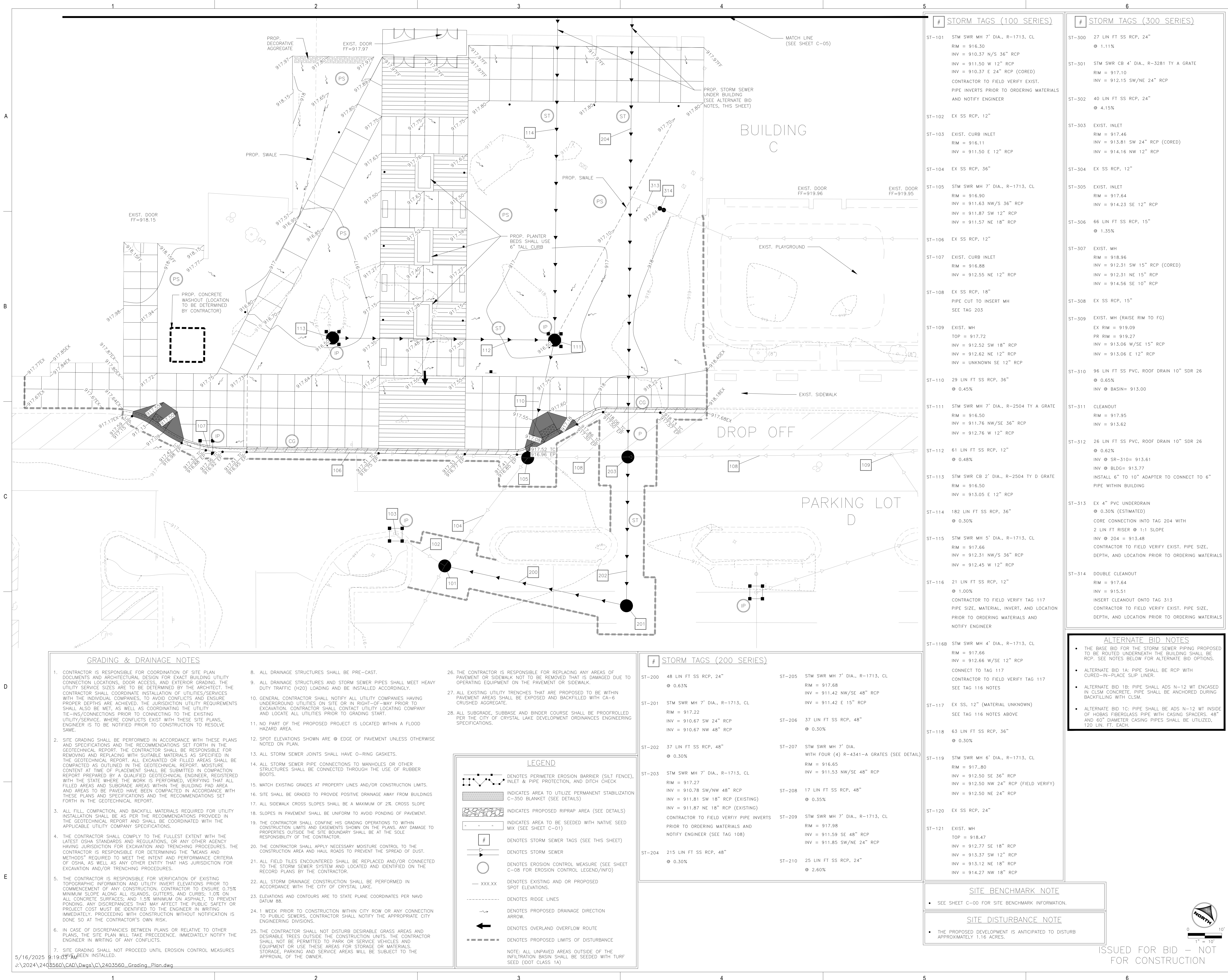
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SITE PLAN

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C-04



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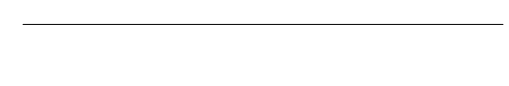
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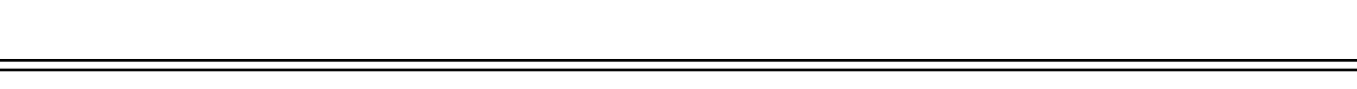
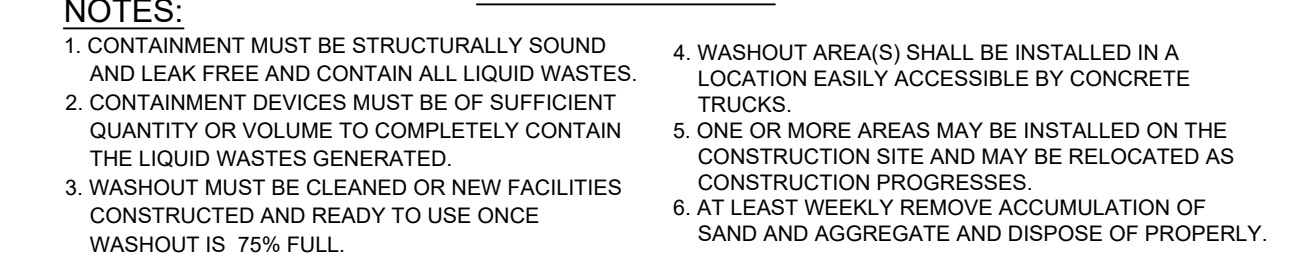
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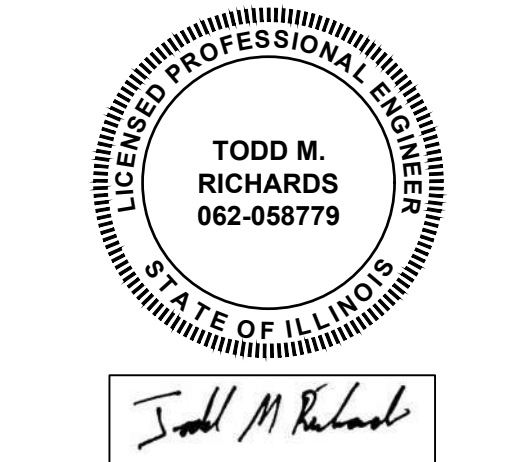
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CRYSTAL LAKE, IL 60012
DKA PROJECT NO: 24 - 027

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**EROSION CONTROL
DETAILS**

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ARCHITECT OF RECORD
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CHICAGO, IL 60661
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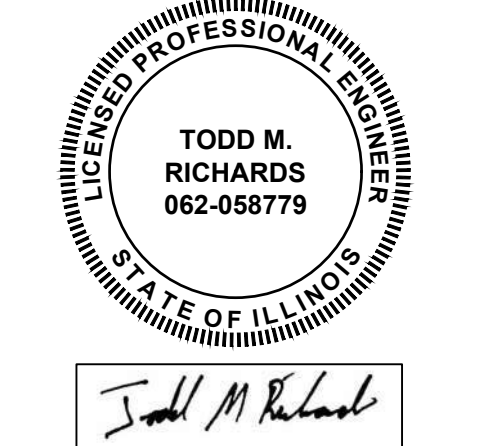
MEP-FP-T-ENGINEERS
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KEY PLAN:



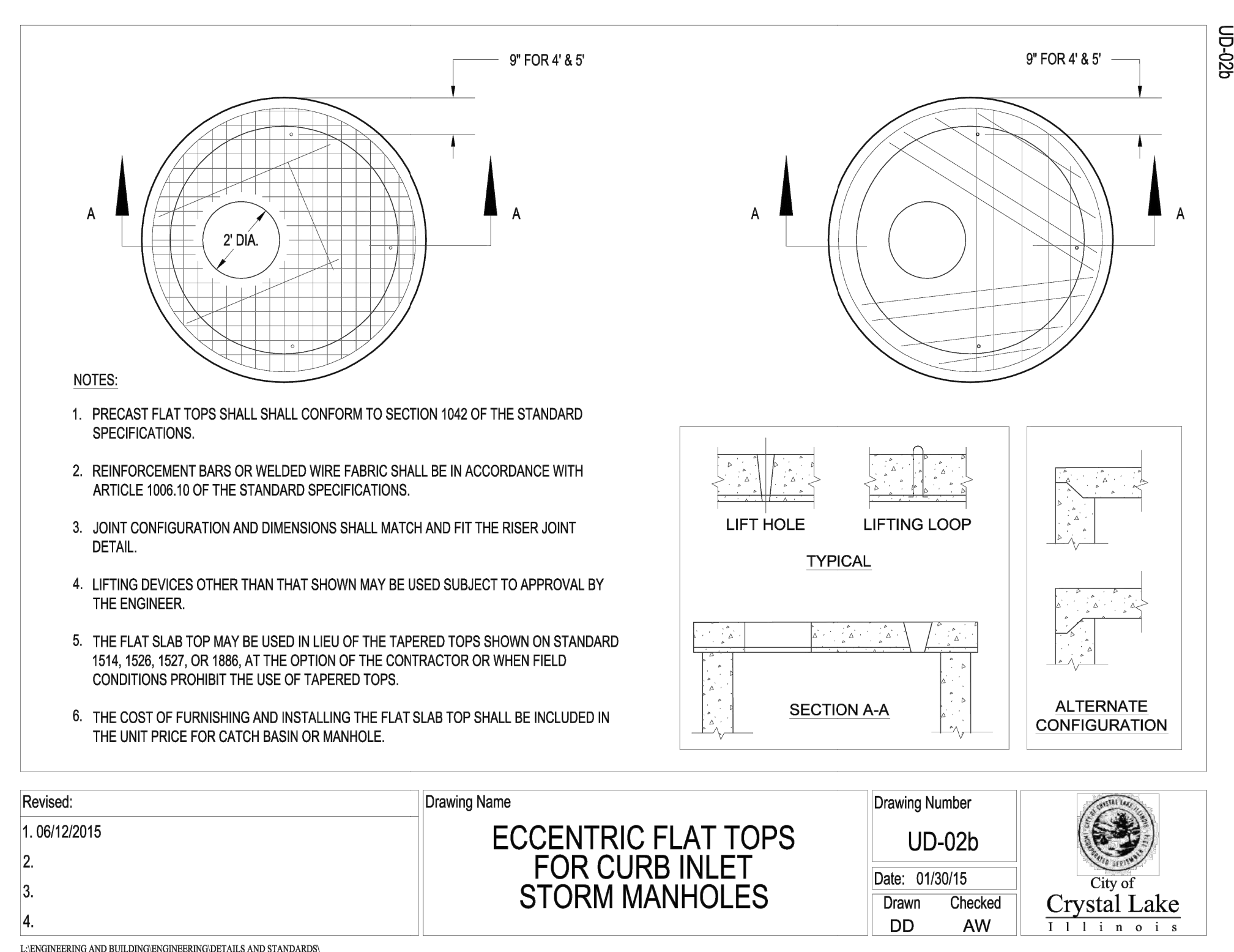
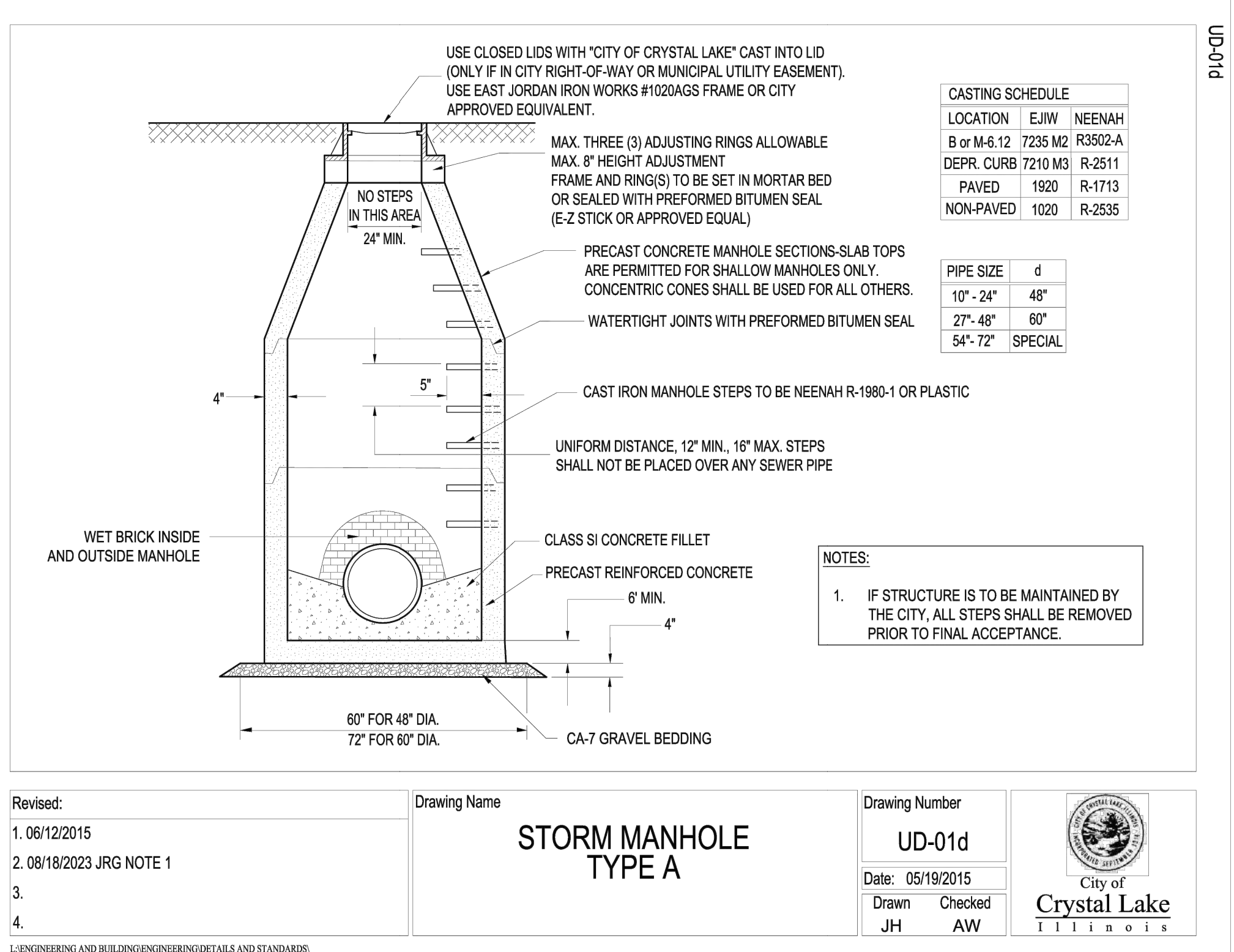
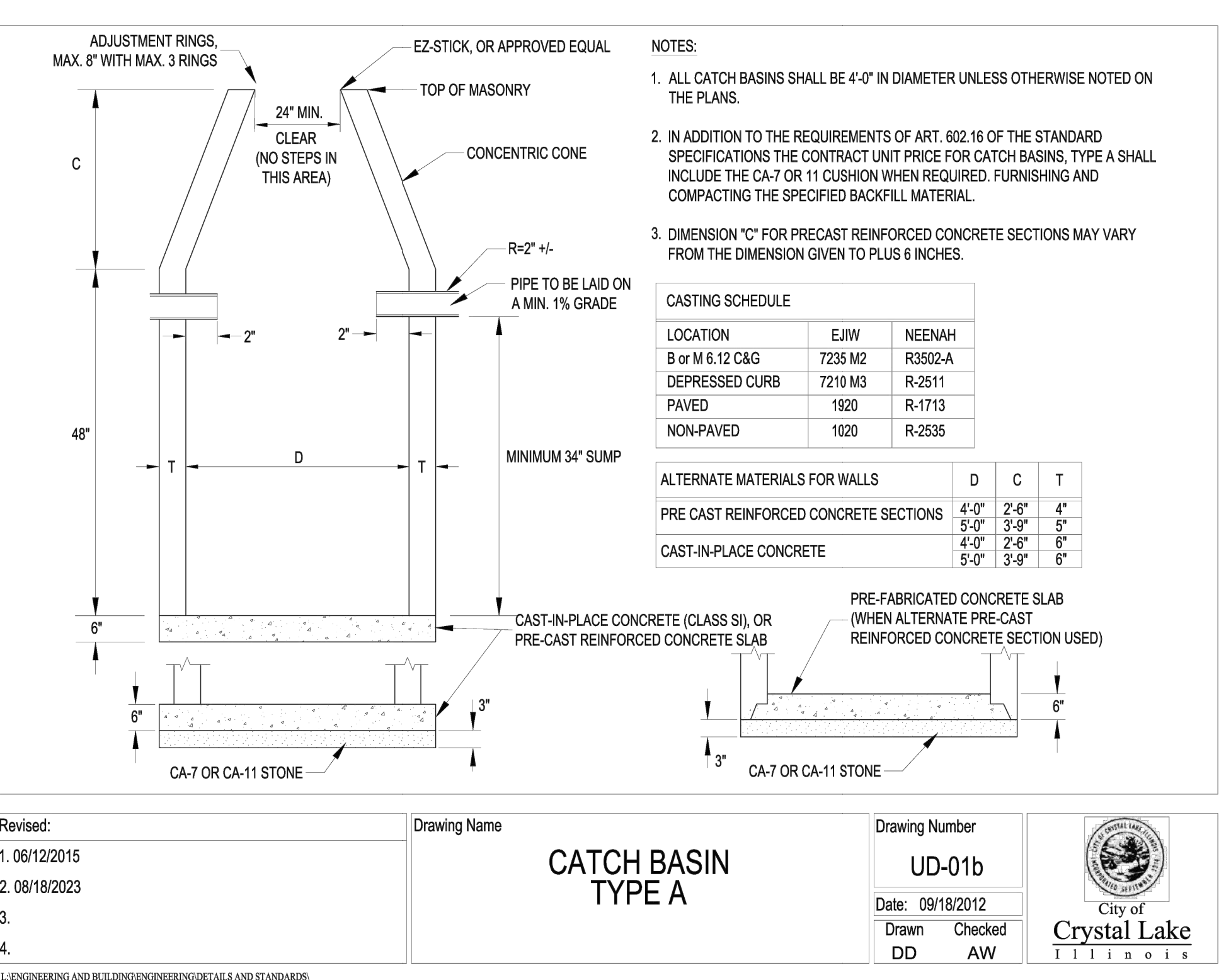
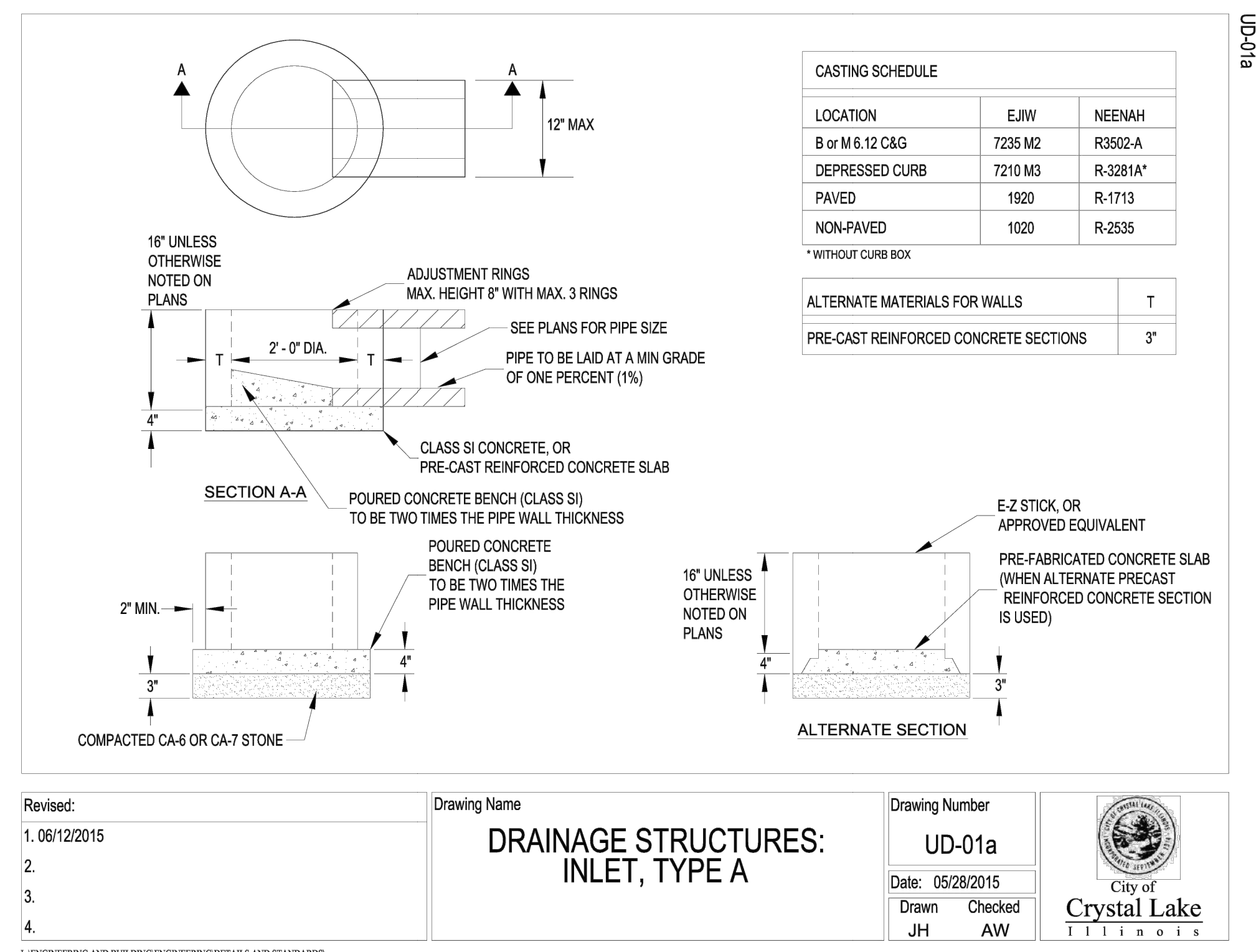
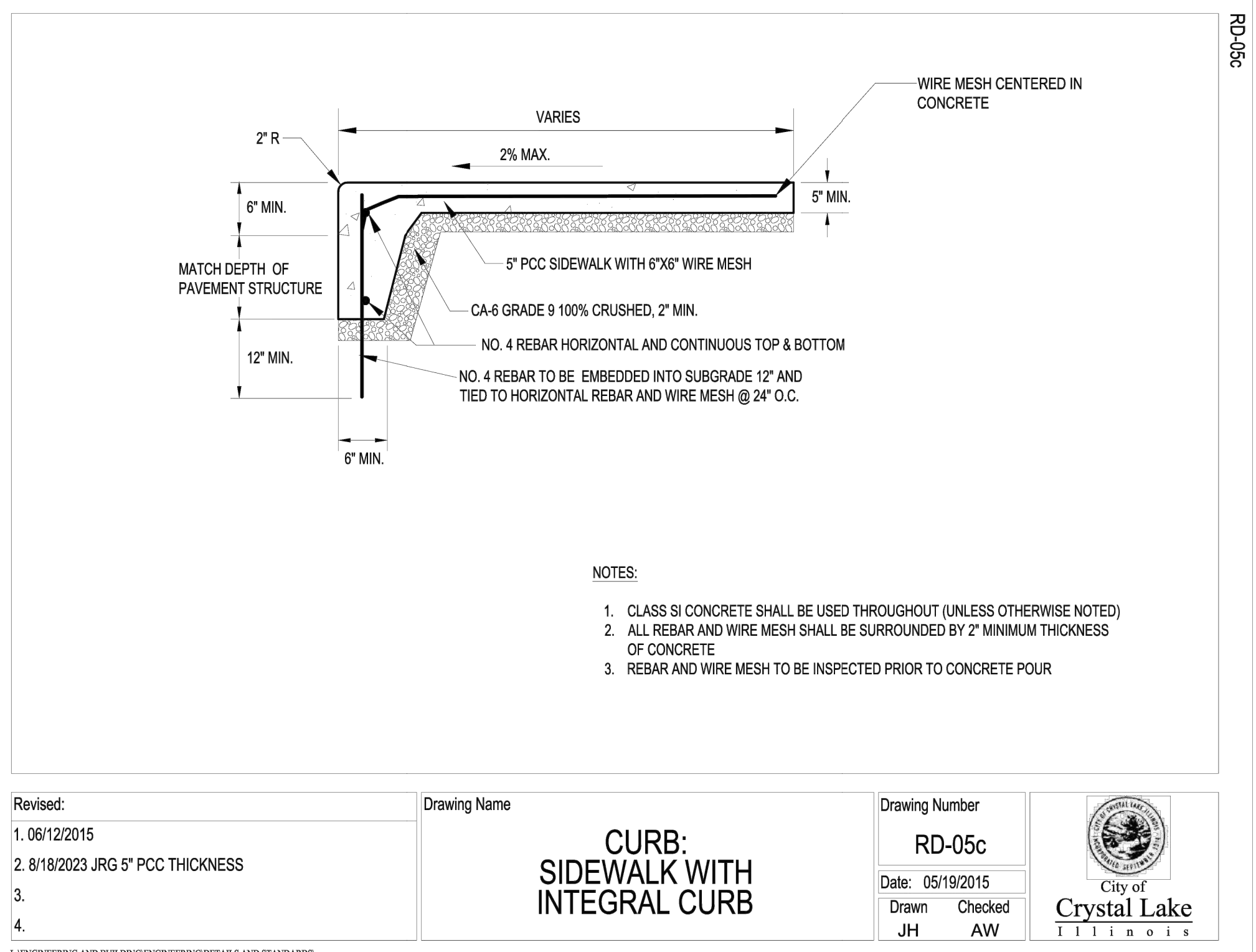
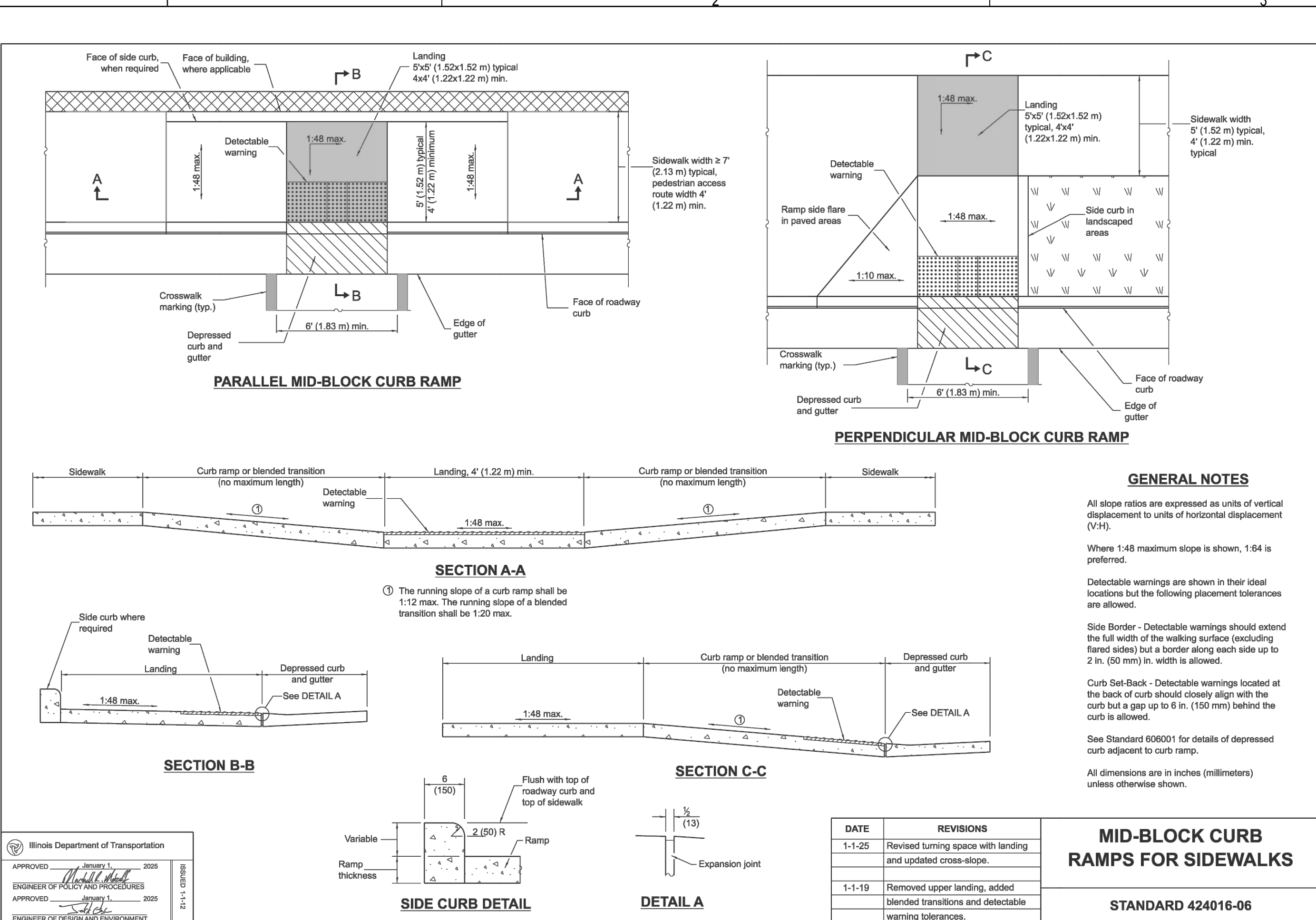
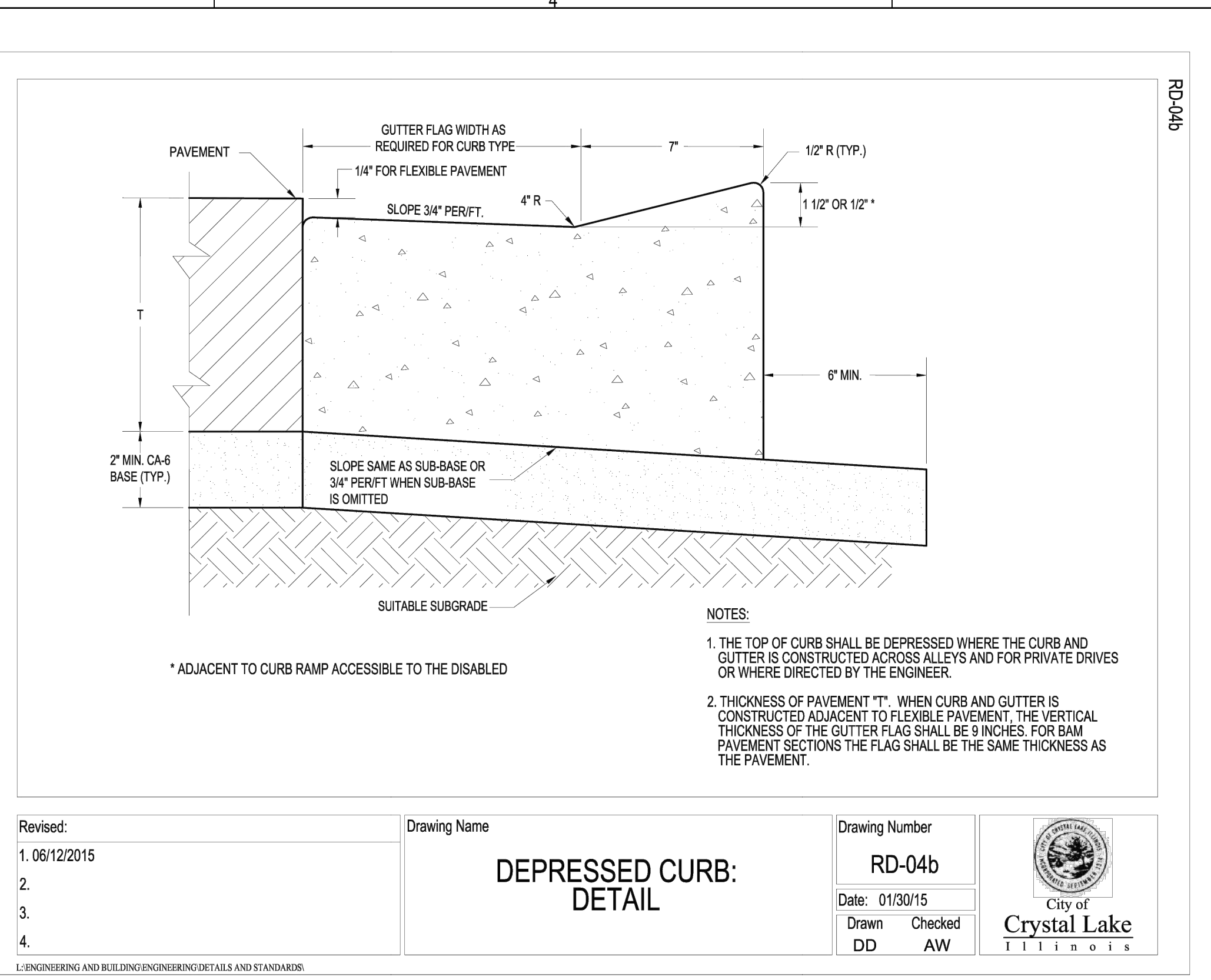
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SHEET TITLE:
STANDARD
CONSTRUCTION
DETAILS

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C-10



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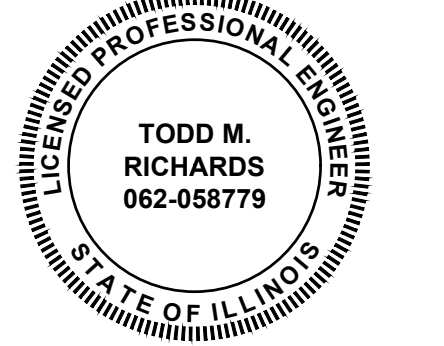
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CRYSTAL LAKE, IL 60012
DKA PROJECT NO: 24 - 027

KEY PLAN:



Todd M. Richards

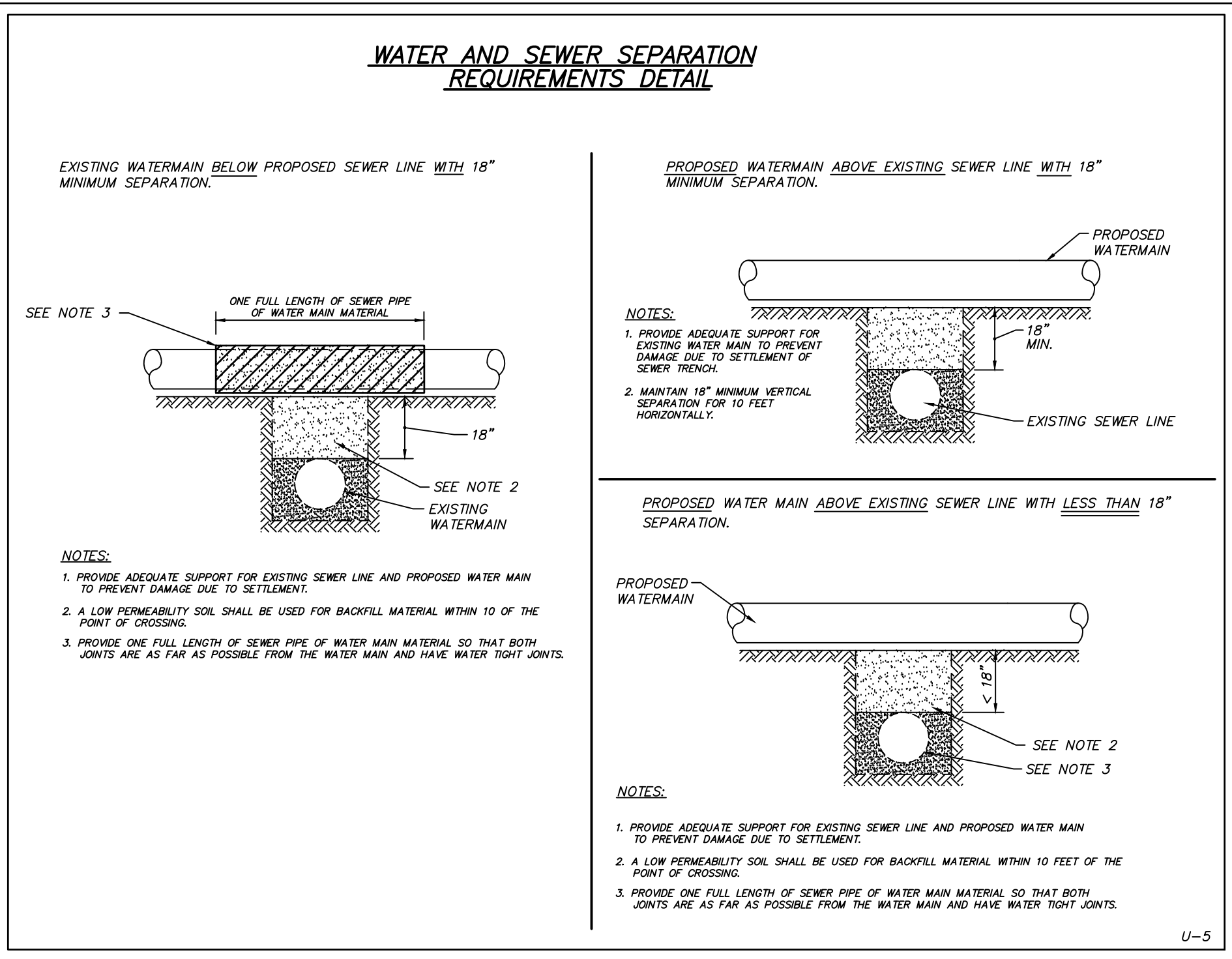
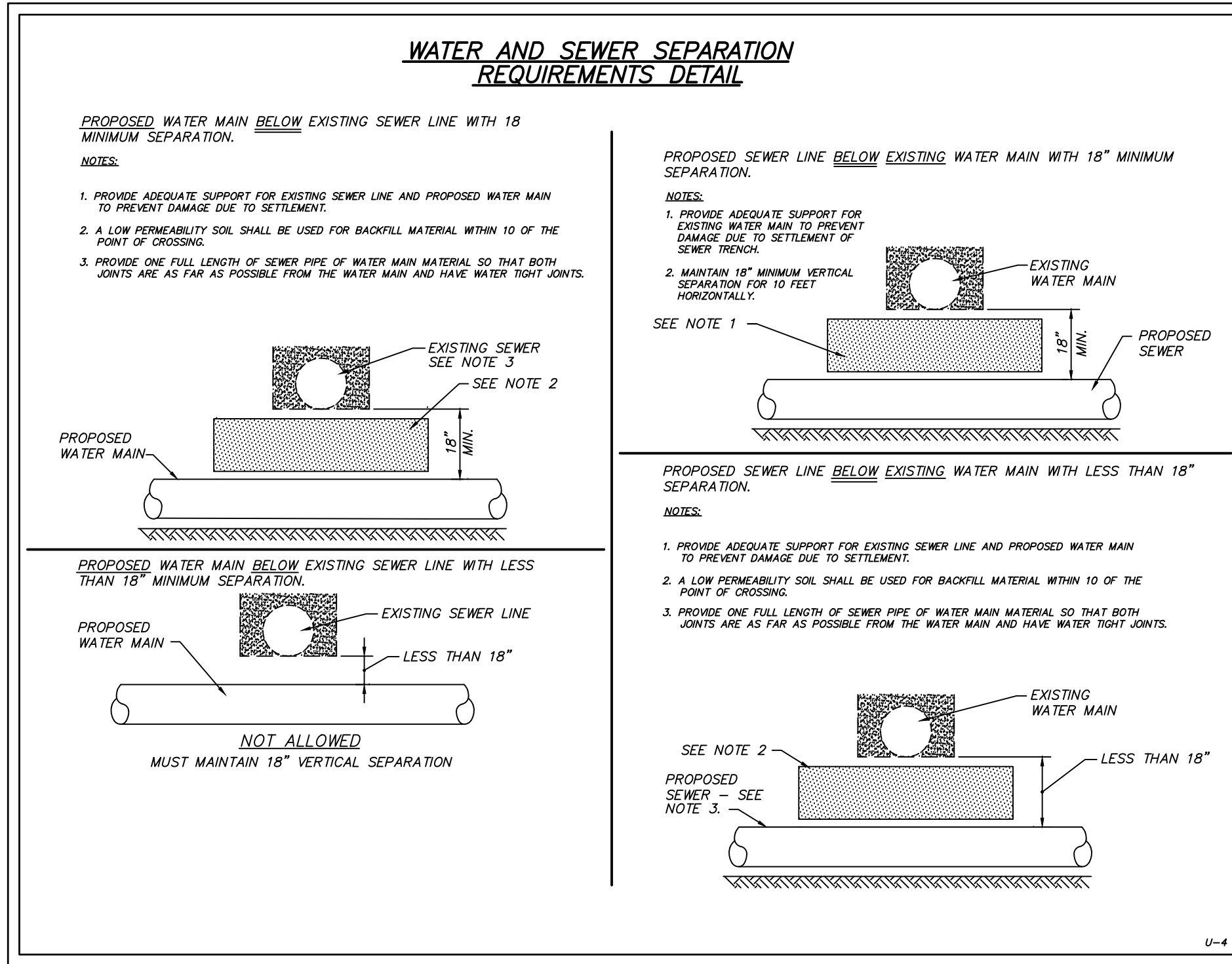
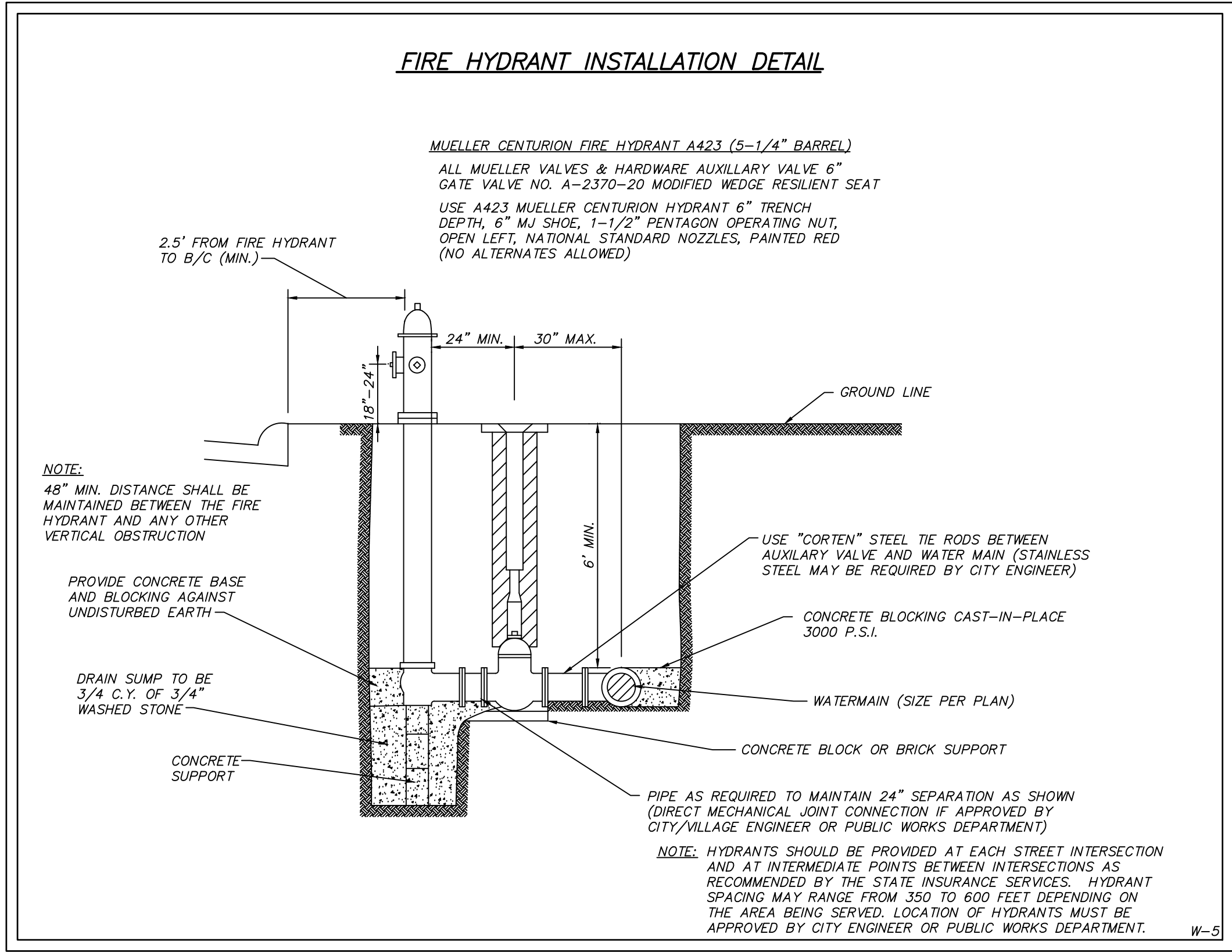
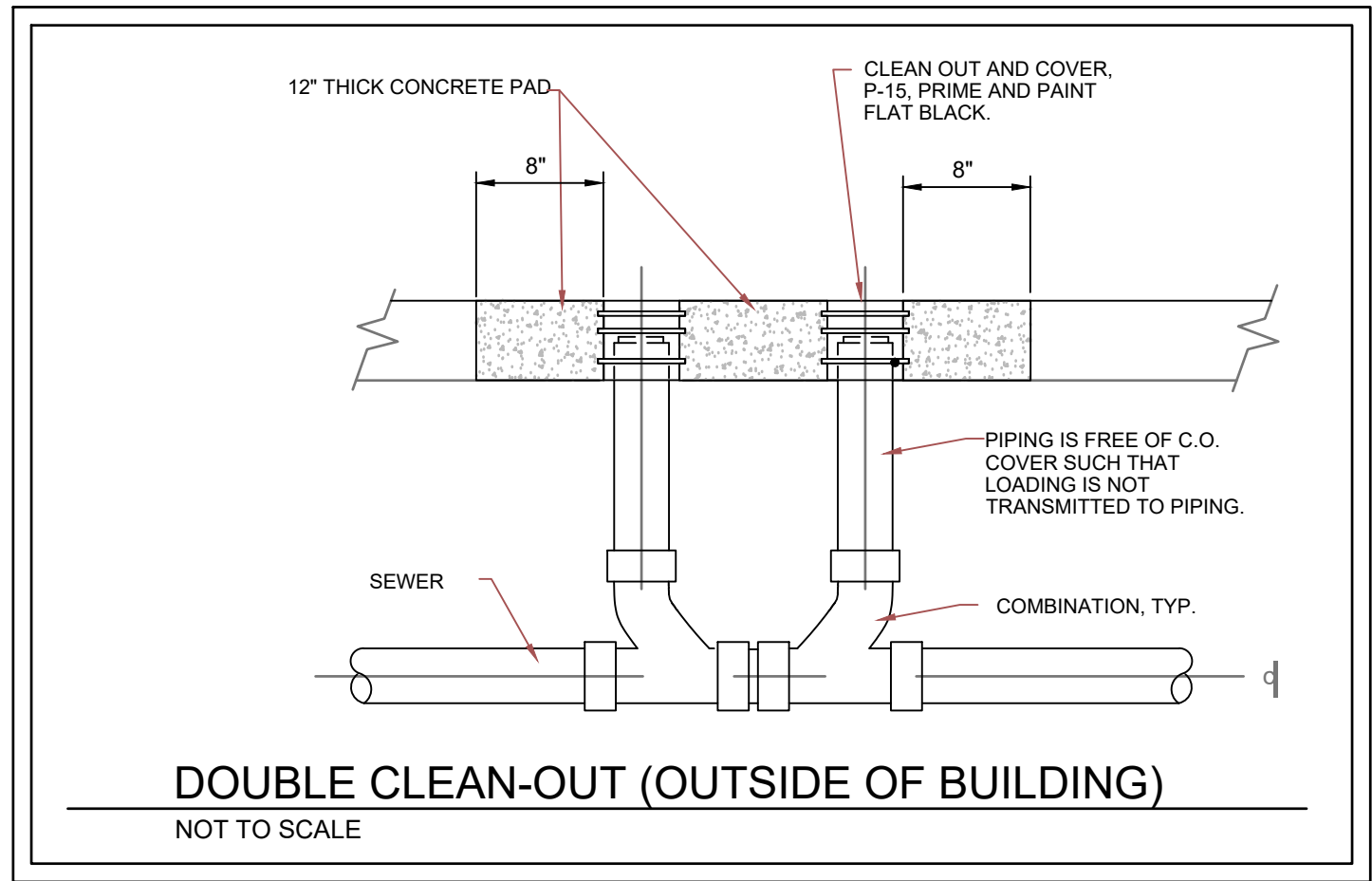
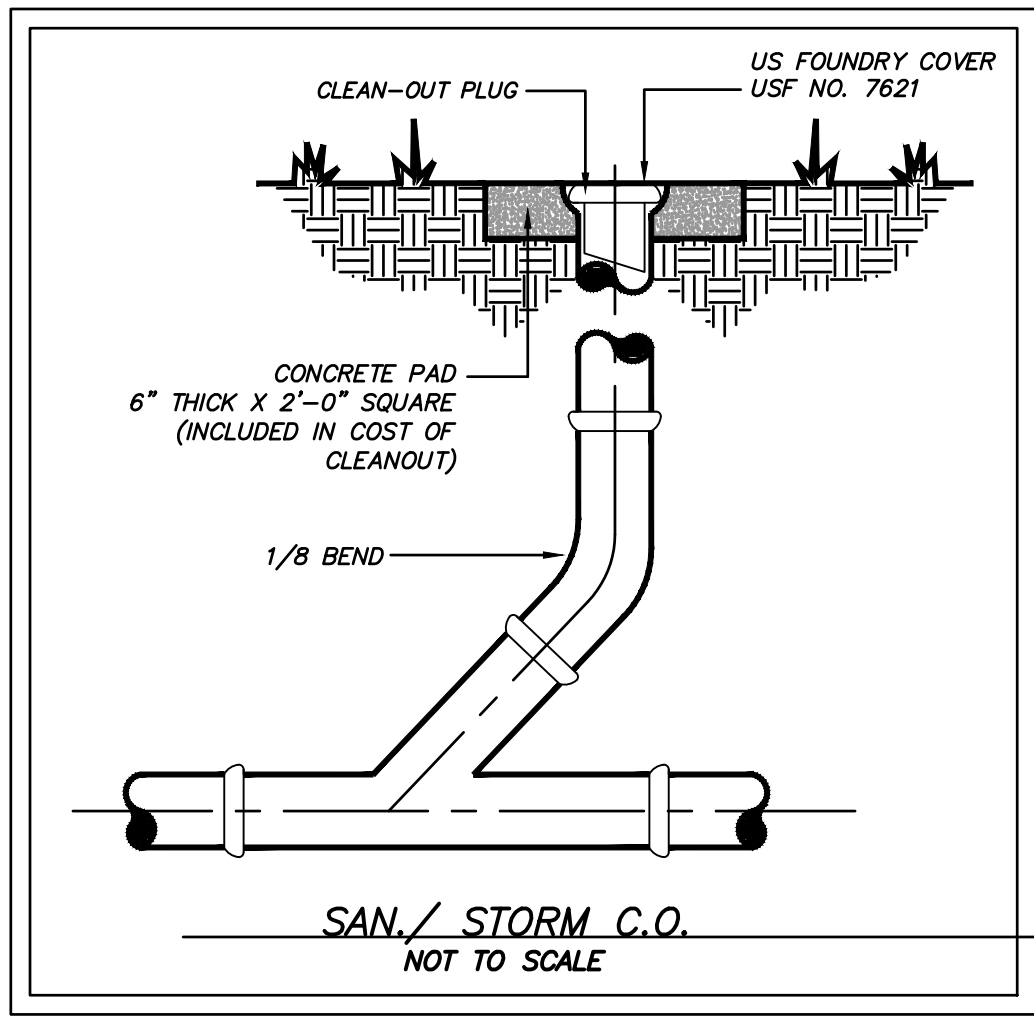
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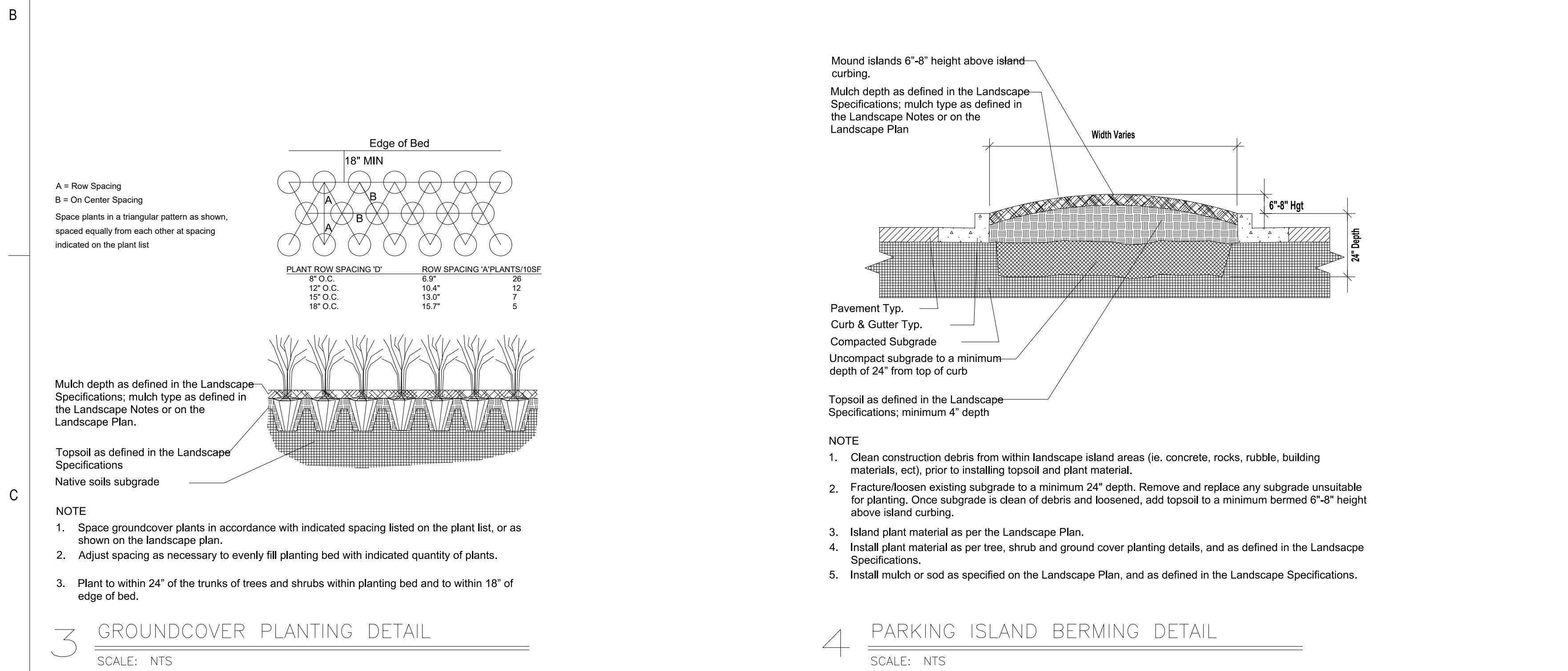
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1. BASE MAP INFORMATION IS ACCURATE AS OF THE DATE PRINTED ON THIS PACKAGE.
2. THE LANDSCAPE PLANS CONTAINED HEREIN ILLUSTRATE APPROXIMATE LOCATIONS OF ALL SITE CONDITIONS. REFER TO SURVEY, ARCHITECTURAL, CIVIL ENGINEERING, STRUCTURAL, ELECTRICAL, IRRIGATION AND ALL OTHER DRAWINGS, IF AVAILABLE, FOR ADDITIONAL DETAILED INFORMATION.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR BECOMING AWARE OF AND FIELD VERIFYING ALL RELATED EXISTING AND PROPOSED CONDITIONS, UTILITIES, PIPES AND STRUCTURES, ETC. PRIOR TO BIDDING AND CONSTRUCTION. THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR CONTACTING JULIE, THE COUNTY PUBLIC WORKS DEPARTMENT, THE MUNICIPALITY AND ANY OTHER PUBLIC OR PRIVATE AGENCIES NECESSARY FOR UTILITY LOCATION PRIOR TO ANY CONSTRUCTION. THE CONTRACTOR SHALL NOTIFY THE OWNER'S REPRESENTATIVE OF APPARENT CONFLICTS WITH CONSTRUCTION AND UTILITIES SO THAT ADJUSTMENTS CAN BE PLANNED PRIOR TO INSTALLATION. IF FIELD ADJUSTMENTS ARE NECESSARY DUE TO EXISTING UTILITY LOCATIONS THEY MUST BE APPROVED BY THE OWNER'S REPRESENTATIVE. THE CONTRACTOR SHALL TAKE SOLE RESPONSIBILITY FOR ANY AND ALL COSTS OR OTHER LIABILITIES INCURRED DUE TO DAMAGE OF SAID UTILITIES/STRUCTURES/ETC.
4. THE CONTRACTOR SHALL COMPLY WITH ALL CODES APPLICABLE TO THIS WORK.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION WITH SUBCONTRACTORS AND OTHER CONTRACTORS OF RELATED TRADES, AS REQUIRED, TO ACCOMPLISH THE PLANTING AND RELATED OPERATIONS.
6. THE CONTRACTOR SHALL COORDINATE INSTALLATION OF ALL PLANT MATERIAL WITH THE INSTALLATION OF OTHER IMPROVEMENTS SUCH AS HARDSCAPE ELEMENTS AND RELATED STRUCTURES. ANY DAMAGE TO EXISTING IMPROVEMENTS IS THE RESPONSIBILITY OF THE CONTRACTOR.
7. THE CONTRACTOR IS RESPONSIBLE TO RESTORE ALL AREAS OF THE SITE, OR ADJACENT AREAS, WHERE DISTURBED BY OPERATIONS OF OR RELATED TO THE CONTRACTOR'S WORK.
8. ALL SURFACE DRAINAGE SHALL BE DIVERTED AWAY FROM STRUCTURES AND NOTED SITE FEATURES IN ALL AREAS AT A MINIMUM OF 2% SLOPE OR AS SHOWN ON THE CIVIL ENGINEERING PLANS. ALL AREAS SHALL POSITIVELY DRAIN AND ALL ISLANDS SHALL BE CROWNED 1" IN HEIGHT PER 1' IN ISLAND WIDTH.
9. THE CONTRACTOR SHALL STAKE ALL TREE LOCATIONS AND THE PERIMETER OF SHRUB/PERENNIAL BEDS PRIOR TO INSTALLATION AND CONTACT THE OWNER'S REPRESENTATIVE FOR APPROVAL. FINAL LOCATION AND STAKING OF ALL PLANT MATERIALS SHALL BE ACCEPTED BY THE OWNER'S REPRESENTATIVE IN ADVANCE OF PLANTING.
10. IF CONFLICTS ARISE BETWEEN THE SIZE OF AREAS AND PLANS, THE CONTRACTOR IS REQUIRED TO CONTACT THE OWNER'S REPRESENTATIVE FOR RESOLUTION PRIOR TO INSTALLATION.
11. WHERE PROVIDED, AREA TAKEOFFS AND PLANT QUANTITY ESTIMATES IN THE PLANT LIST ARE FOR INFORMATION ONLY. THE CONTRACTOR IS RESPONSIBLE TO DO THEIR OWN QUANTITY TAKE-OFFS FOR ALL PLANT MATERIALS AND SIZES SHOWN ON PLANS. IN CASE OF ANY DISCREPANCIES, PLANS TAKE PRECEDENCE OVER CALL-OUTS AND/OR THE PLANT LIST(S).
12. PLANTS ARE TO BE TYPICAL IN SHAPE AND SIZE FOR SPECIES. PLANTS PLANTED IN ROWS OR GROUPS SHALL BE MATCHED IN FORM. PLANTS SHALL NOT BE ROOT-BOUND OR LOOSE IN THEIR CONTAINERS. HANDLE ALL PLANTS WITH CARE IN TRANSPORTING, PLANTING AND MAINTENANCE UNTIL INSPECTION AND FINAL ACCEPTANCE. FIELD COLLECTED MATERIAL SHALL NOT BE USED UNLESS APPROVED BY THE OWNER'S REPRESENTATIVE.
13. SHREDDED HARDWOOD MULCH, FERTILIZING, AS SPECIFIED, STAKING, WATERING AND ONE (1) YEAR PLANT WARRANTY FOR INSTALLED PLANT MATERIAL, SHALL BE CONSIDERED INCIDENTAL TO THE PLANT ITEMS.
14. MUSHROOM COMPOST SHALL BE FINELY SCREENED, HOMOGENOUS, DECOMPOSED ORGANIC MATERIAL SUITABLE FOR HORTICULTURAL USE. MIX THOROUGHLY IN PLANT BED BEFORE INSTALLING PLANTS.

1. LANDSCAPE CONTRACTOR SHALL READ AND UNDERSTAND THE LANDSCAPE SPECIFICATIONS (SHEET L-102) PRIOR TO FINALIZING BIDS. THE LANDSCAPE SPECIFICATIONS SHALL BE ADHERED TO THROUGHOUT THE CONSTRUCTION PROCESS.
2. CONTRACTOR RESPONSIBLE FOR LOCATING AND PROTECTING ALL UNDERGROUND UTILITIES PRIOR TO DIGGING.
3. CONTRACTOR RESPONSIBLE FOR PROTECTING EXISTING TREES FROM DAMAGE DURING CONSTRUCTION.
4. ALL PLANTING AREAS SHALL BE CLEANED OF CONSTRUCTION DEBRIS (IE. CONCRETE, ROCK, RUBBLE, BUILDING MATERIALS, ETC.) PRIOR TO ADDING AND SPREADING OF THE TOPSOIL.
5. ALL SHRUBS BEDS (EXISTING AND NEW) TO BE MULCHED WITH A 3 INCH MINIMUM LAYER OF DOUBLE SHREDDED HARDWOOD MULCH.
6. ALL ANNUAL AND PERENNIAL BEDS TO BE TILLED TO A MINIMUM DEPTH OF 12 INCHES AND AMENDED WITH 4 INCHES OF ORGANIC MATERIAL. MULCH PLANTED ANNUAL AND PERENNIAL BEDS WITH 2 INCH DEPTH OF MINI NUGGETS.
7. PLANTING HOLES TO BE DUG A MINIMUM OF TWICE THE WIDTH OF THE SIZE OF THE ROOT BALL OF BOTH SHRUB AND TREE. BACK TO BE A MIX OF 4 PARTS TOPSOIL AND 1 PART ORGANIC SOIL CONDITIONER (IE. NATURE'S HELPER OR PRO MIX). BACKFILL AND TAMP BOTTOM OF HOLE PRIOR TO PLANTING SO TOP OF ROOT BALL DOES NOT SETTLE BELOW SURROUNDING GRADE.
8. EXISTING GRASS IN PROPOSED PLANTING AREAS TO BE KILLED AND REMOVED AND AREA TO BE HAND RAKED TO REMOVE ALL ROCKS AND DEBRIS LARGER THAN 1 INCH IN DIAMETER PRIOR TO PLANTING SHRUBS.
9. ANY EXISTING GRASS DISTURBED DURING CONSTRUCTION TO BE FULLY REMOVED, REGRADED AND REPLACED. ALL TIRE MARKS AND INDENTIONS TO BE REPAIRED.
10. SOIL TO BE TESTED TO DETERMINE FERTILIZER AND LIME REQUIREMENTS AND DISTRIBUTED PRIOR TO LAYING SOD.
11. SOD TO BE DELIVERED FRESH (CUT LESS THAN 24 HOURS PRIOR TO ARRIVING ON SITE), LAID IMMEDIATELY, ROLLED, AND WATERED THOROUGHLY IMMEDIATELY AFTER PLANTING. EDGE OF SOD IS TO BE "V" TRENCHED.
12. ALL CHANGES TO DESIGN OR PLANT SUBSTITUTIONS ARE TO BE AUTHORIZED BY THE LANDSCAPE ARCHITECT.
13. ALL LANDSCAPING SHALL BE INSTALLED IN CONFORMANCE WITH ANSI Z60.1 THE "AMERICAN STANDARD FOR NURSERY STOCK" AND THE ACCEPTED STANDARDS OF THE AMERICAN ASSOCIATION OF NURSERYMEN.
14. THE LANDSCAPE CONTRACTOR SHALL GUARANTEE ALL PLANTS INSTALLED FOR ONE FULL YEAR FROM DATE OF ACCEPTANCE BY THE OWNER. ALL PLANTS SHALL BE ALIVE AND AT A VIGOROUS RATE OF GROWTH AT THE END OF THE GUARANTEE PERIOD. THE LANDSCAPE CONTRACTOR SHALL NOT BE RESPONSIBLE FOR ACTS OF GOD OR VANDALISM.
15. ANY PLANT THAT IS DETERMINED DEAD, IN AN UNHEALTHY OR UNSIGHTLY CONDITION, LOST ITS SHAPE DUE TO DEAD BRANCHES OR OTHER SYMPTOMS OF POOR, NON-VIGOROUS GROWTH SHALL BE REPLACED BY THE LANDSCAPE CONTRACTOR.
16. GENERAL CONTRACTOR IS RESPONSIBLE FOR ADDING A MIN OF 4" OF CLEAN FRIABLE TOPSOIL IN ALL PLANTING BEDS AND ALL GRASSED AREAS. GRADED AREAS TO BE HELD DOWN THE APPROPRIATE ELEVATION TO ACCOUNT FOR TOPSOIL. SEE SPECIFICATIONS FOR REQUIRED TOPSOIL CHARACTERISTICS.
17. IN ALL PARKING LOT ISLANDS, THE GENERAL CONTRACTOR IS RESPONSIBLE TO REMOVE ALL DEBRIS, FRACTURE/LOOSEN SUBGRADE TO A MIN. 24" DEPTH. ADD TOPSOIL TO A 6"-8" BERM HEIGHT ABOVE ISLAND CURBING; REFER TO LANDSCAPE SPECIFICATIONS AND LANDSCAPE ISLAND DETAIL.
18. PRIOR TO BEGINNING WORK, THE LANDSCAPE CONTRACTOR SHALL INSPECT THE SUBGRADE, GENERAL SITE CONDITIONS, VERIFY ELEVATIONS, UTILITY LOCATIONS, IRRIGATION, APPROVE TOPSOIL PROVIDED BY GENERAL CONTRACTOR AND OBSERVE THE SITE CONDITIONS UNDER WHICH THE WORK IS TO BE DONE. NOTIFY GENERAL CONTRACTOR OF ANY UNSATISFACTORY CONDITIONS, AND WORK SHALL NOT PROCEED UNTIL SUCH CONDITIONS HAVE BEEN CORRECTED AND ARE ACCEPTABLE TO THE LANDSCAPE CONTRACTOR.
19. STAKE ALL EVERGREEN AND DECIDUOUS TREES AS SHOWN IN THE DETAILS THIS SHEET.
20. REMOVE ALL STAKES AND GUYING FROM ALL TREES AFTER ONE YEAR FROM PLANTING.
21. WATER THOROUGHLY TWICE IN FIRST 24 HOURS AND APPLY MULCH IMMEDIATELY.
22. SITE TO BE 100% IRRIGATED IN ALL PLANTING BEDS AND GRASS AREA BY AN AUTOMATIC UNDERGROUND IRRIGATION SYSTEM. SEE IRRIGATION PLAN FOR DESIGN.
23. ALL TREE PROTECTION DEVICES TO BE INSTALLED PRIOR TO THE START OF LAND DISTURBANCE, AND MAINTAINED UNTIL FINAL LANDSCAPING.
24. ALL TREE PROTECTION AREAS TO BE PROTECTED FROM SEDIMENTATION.
25. ALL TREE PROTECTION FENCING TO BE INSPECTED DAILY, AND REPAIRED OR REPLACED AS NEEDED.
26. NO PARKING, STORAGE OR OTHER CONSTRUCTION ACTIVITIES ARE TO OCCUR WITHIN TREE PROTECTION AREAS.
27. CONTRACTOR SHALL USE CAUTION WHEN DIGGING TREE PITS IN THE VICINITY OF UNDERGROUND UTILITY LINES AND MAY NEED TO HAND DIG THE PITS IN MANY OF THESE INSTANCES.



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KEY PLAN:

SHEET STATUS: 05/16/2025
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SHEET TITLE:
**LANDSCAPE NOTES
& DETAILS**

SHEET NUMBER:

L-101

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LANDSCAPE SPECIFICATIONS

PART 1 - GENERAL

DESCRIPTION

- PROVIDE TREES, SHRUBS, GROUND COVERS, SOD, AND ANNUALS/PERENNIALS AS SHOWN AND SPECIFIED ON THE LANDSCAPE PLAN. THE WORK INCLUDES:
1. SOIL PREPARATION
 2. TREES, SHRUBS, GROUND COVERS, AND ANNUALS/PERENNIALS.
 3. PLANTING MIXES.
 4. TOP SOIL, MULCH AND PLANTING ACCESSORIES.
 5. MAINTENANCE
 6. DECORATIVE STONE.

RELATED WORK:

1. IRRIGATION SYSTEM: SEE IRRIGATION SPECIFICATIONS (NOT INCLUDED IN PACKAGE).

QUALITY ASSURANCE

PLANT NAMES INDICATED: COMPLY WITH "STANDARDIZED PLANT NAMES" AS ADOPTED BY THE LATEST EDITION OF THE AMERICAN JOINT COMMITTEE OF HORTICULTURAL NOMENCLATURE. NAMES OF VARIETIES NOT LISTED CONFORM GENERALLY WITH NAMES ACCEPTED BY THE NURSERY TRADE. PROVIDE STOCK TRUE TO BOTANICAL NAME AND LEGIBLY TAGGED.

COMPLY WITH SIZING AND GRADING STANDARDS OF THE LATEST EDITION OF "AMERICAN STANDARD FOR NURSERY STOCK". A PLANT SHALL BE DIMENSIONED AS IT STANDS IN ITS NATURAL POSITION.

ALL PLANTS SHALL BE NURSERY GROWN UNDER CLIMATIC CONDITIONS SIMILAR TO THOSE IN THE LOCALITY OF THE PROJECT FOR A MINIMUM OF 2 YEARS.

NURSERY STOCK FURNISHED SHALL BE AT LEAST THE MINIMUM SIZE INDICATED. LARGER STOCK IS ACCEPTABLE, AT NO ADDITIONAL COST, AND PROVIDING THAT THE LARGER PLANTS WILL NOT BE CUT BACK TO SIZE INDICATED. PROVIDE PLANTS INDICATED BY TWO MEASUREMENTS SO THAT ONLY A MAXIMUM OF 25% ARE OF THE MINIMUM SIZE INDICATED AND 75% ARE OF THE MAXIMUM SIZE INDICATED.

BEFORE SUBMITTING A BID, THE CONTRACTOR SHALL HAVE INVESTIGATED THE SOURCES OF SUPPLY AND BE SATISFIED THAT THEY CAN SUPPLY THE LISTED PLANTS IN THE SIZE, VARIETY AND QUALITY AS SPECIFIED. FAILURE TO TAKE THIS PRECAUTION WILL NOT RELIEVE THE CONTRACTOR FROM THEIR RESPONSIBILITY FOR FURNISHING AND INSTALLING ALL PLANT MATERIALS IN STRICT ACCORDANCE WITH THE CONTRACT DOCUMENTS WITHOUT ADDITIONAL COST TO THE OWNER. THE LANDSCAPE ARCHITECT SHALL APPROVE ANY SUBSTITUTES OF PLANT MATERIAL, OR CHANGES IN PLANT MATERIAL, SIZE, PRIOR TO THE LANDSCAPE CONTRACTOR SUBMITTING A BID.

DELIVER, STORAGE AND HANDLING

TAKE ALL PRECAUTIONS CUSTOMARY IN GOOD TRADE PRACTICE IN PREPARING PLANTS FOR MOVING. WORKMANSHIP THAT FAILS TO MEET THE HIGHEST STANDARDS WILL BE REJECTED. SPRAY DECIDUOUS PLANTS IN FOLIAGE WITH AN APPROVED "ANTI-DESICCANT" IMMEDIATELY AFTER DIGGING TO PREVENT DEHYDRATION. DIG, PACK, TRANSPORT, AND HANDLE PLANTS WITH CARE TO ENSURE PROTECTION AGAINST INJURY. INSPECTION CERTIFICATES REQUIRED BY LAW SHALL ACCOMPANY EACH SHIPMENT INVOICE OR ORDER TO STOCK. PROTECT ALL PLANTS FROM DRYING OUT. IF PLANTS CANNOT BE PLANTED IMMEDIATELY UPON DELIVERY, PROPERLY PROTECT THEM WITH SOIL, WET PEAT MOSS, OR IN A MANNER ACCEPTABLE TO THE LANDSCAPE ARCHITECT. WATER HELED-IN PLANTINGS DAILY. NO PLANT SHALL BE BOUND WITH ROPE OR WIRE IN A MANNER THAT COULD DAMAGE OR BREAK THE BRANCHES. COVER PLANTS TRANSPORTED ON OPEN VEHICLES WITH A PROTECTIVE COVERING TO PREVENT WIND BURN.

PROJECT CONDITIONS

PROTECT EXISTING UTILITIES, PAVING, AND OTHER FACILITIES FROM DAMAGE CAUSED BY LANDSCAPE OPERATIONS.

A COMPLETE LIST OF PLANTS, INCLUDING A SCHEDULE OF SIZES, QUANTITIES, AND OTHER REQUIREMENTS ARE SHOWN ON THE DRAWINGS. IN THE EVENT THAT QUANTITY DISCREPANCIES OR MATERIAL OMISSIONS OCCUR IN THE PLANT MATERIAL LIST, THE PLANTING PLANS SHALL GOVERN.

THE IRRIGATION SYSTEM WILL BE INSTALLED PRIOR TO PLANTING. LOCATE, PROTECT AND MAINTAIN THE IRRIGATION SYSTEM DURING PLANTING OPERATIONS. REPAIR IRRIGATION SYSTEM COMPONENTS DAMAGED DURING PLANTING OPERATIONS, AT THE CONTRACTOR'S EXPENSE. REFER TO THE IRRIGATION SPECIFICATIONS, IRRIGATION PLAN AND IRRIGATION DETAILS.

DO NOT BEGIN LANDSCAPE ACCESSORY WORK BEFORE COMPLETION OF FINAL GRADING OR SURFACING.

WARRANTY

WARRANT PLANT MATERIAL TO REMAIN ALIVE, BE HEALTHY AND IN A VIGOROUS CONDITION FOR A PERIOD OF 1 YEAR AFTER COMPLETION AND FINAL ACCEPTANCE OF ENTIRE PROJECT.

REPLACE, IN ACCORDANCE WITH THE DRAWINGS AND SPECIFICATIONS, ALL PLANTS THAT ARE DEAD OR, ARE IN AN UNHEALTHY, OR UNSIGHTLY CONDITION, AND HAVE LOST THEIR NATURAL SHAPE DUE TO DEAD BRANCHES, OR OTHER CAUSES DUE TO THE CONTRACTOR'S NEGLIGENCE. THE COST OF SUCH REPLACEMENT(S) IS AT THE CONTRACTOR'S EXPENSE. WARRANT ALL REPLACEMENT PLANTS FOR 1 YEAR AFTER INSTALLATION.

WARRANTY SHALL NOT INCLUDE DAMAGE, LOSS OF TREES, PLANTS, OR GROUND COVERS CAUSED BY FIRES, FLOODS, FREEZING RAINS, LIGHTNING STORMS, WINDS OVER 75 MILES PER HOUR, WINTER KILL CAUSED BY EXTREME COLD, SEVERE WINTER CONDITIONS NOT TYPICAL OF PLANTING AREA, AND/OR ACTS OF VANDALISM OR NEGLIGENCE ON A PART OF THE OWNER.

REMOVE AND IMMEDIATELY REPLACE ALL PLANTS FOUND TO BE UNSATISFACTORY DURING THE INITIAL PLANTING INSTALLATION.

MAINTAIN AND PROTECT PLANT MATERIAL, LAWNS, AND IRRIGATION UNTIL FINAL ACCEPTANCE IS MADE.

ACCEPTANCE

INSPECTION OF PLANTED AREAS WILL BE MADE BY THE OWNER'S REPRESENTATIVE.

1. PLANTED AREAS WILL BE ACCEPTED PROVIDED ALL REQUIREMENTS, INCLUDING MAINTENANCE, HAVE BEEN COMPLIED WITH AND PLANT MATERIALS ARE ALIVE AND IN A HEALTHY, VIGOROUS CONDITION.

UPON ACCEPTANCE, THE CONTRACTOR SHALL COMMENCE THE SPECIFIED PLANT MAINTENANCE.

CODES, PERMITS AND FEES

OBTAIN ANY NECESSARY PERMITS FOR THIS SECTION OF WORK AND PAY ANY FEES REQUIRED FOR PERMITS.

THE ENTIRE INSTALLATION SHALL FULLY COMPLY WITH ALL LOCAL AND STATE LAWS AND ORDINANCES, AND WITH ALL ESTABLISHED CODES APPLICABLE THERETO; ALSO AS DEPICTED ON THE LANDSCAPE AND IRRIGATION CONSTRUCTION SET.

PART 2 - PRODUCTS

MATERIALS

PLANTS: PROVIDE TYPICAL OF THEIR SPECIES OR VARIETY; WITH NORMAL, DENSELY DEVELOPED BRANCHES AND VIGOROUS, FIBROUS ROOT SYSTEMS. PROVIDE ONLY SOUND, HEALTHY, VIGOROUS PLANTS. DISCARDING KNOTS, SPLITTING BRANCHES, FROST CRACKS, ABRASIONS OF THE BARK, PLANT DISEASES, INSECT EGG(S), BORERS, AND ALL FORMS OF INFESTATION. ALL PLANTS SHALL HAVE A FULLY DEVELOPED FORM WITHOUT VOIDS AND OPEN SPACES. PLANTS HELD ON STORAGE WILL BE REJECTED IF THEY SHOW SIGNS OF GROWTH DURING THE STORAGE PERIOD.

1. BALLED AND PLANTS WRAPPED WITH BURLAP, TO HAVE FIRM, NATURAL BALLS OF EARTH OF SUFFICIENT DIAMETER AND DEPTH TO ENCOMPASS THE FIBROUS AND FEEDING ROOT SYSTEM NECESSARY FOR FULL RECOVERY OF THE PLANT. PROVIDE BALL SIZES COMPLYING WITH THE LATEST EDITION OF THE "AMERICAN STANDARD FOR NURSERY STOCK". CRACKED OR MUSHROOMED BALLS, OR SIGNS OF CIRCLING ROOTS ARE NOT ACCEPTABLE.
2. CONTAINER-GROWN STOCK: GROWN IN A CONTAINER FOR SUFFICIENT LENGTH OF TIME FOR THE ROOT SYSTEM TO HAVE DEVELOPED TO HOLD ITS SOIL TOGETHER, FIRM AND WHOLE.
- 2.1. NO PLANTS SHALL BE LOOSE IN THE CONTAINER.
- 2.2. CONTAINER STOCK SHALL NOT BE POT BOUND.
3. PLANTS PLANTED IN ROWS SHALL BE MATCHED IN FORM.
4. PLANTS LARGER THAN THOSE SPECIFIED IN THE PLANT LIST MAY BE USED WHEN ACCEPTABLE TO THE LANDSCAPE ARCHITECT.
- 4.1. IF THE USE OF LARGER PLANTS IS ACCEPTABLE, INCREASE THE SPREAD OF ROOTS OR ROOT BALL IN PROPORTION TO THE SIZE OF THE PLANT.
5. THE HEIGHT OF THE TREES, MEASURED FROM THE CROWN OF THE ROOTS TO THE TOP OF THE TOP BRANCH, SHALL NOT BE LESS THAN THE MINIMUM SIZE DESIGNATED IN THE PLANT LIST.
6. NO PRUNING WOUNDS SHALL BE PRESENT WITH A DIAMETER OF MORE THAN 1" AND SUCH WOUNDS MUST SHOW VIGOROUS BARK ON ALL EDGES.
7. EVERGREEN TREES SHALL BE BRANCHED TO THE GROUND OR AS SPECIFIED IN PLANT LIST.
8. SHRUBS AND SMALL PLANTS SHALL MEET THE REQUIREMENTS FOR SPREAD AND HEIGHT INDICATED IN THE PLANT LIST.
- 8.1. THE MEASUREMENTS FOR HEIGHT SHALL BE TAKEN FROM THE GROUND LEVEL TO THE HEIGHT OF THE TOP OF THE PLANT AND NOT THE LONGEST BRANCH.
- 8.2. SINGLE STEMMED OR THIN PLANTS WILL NOT BE ACCEPTED.
- 8.3. SIDE BRANCHES SHALL BE GENEROUS, WELL-TWIGGED, AND THE PLANT AS A WHOLE WELL-BUSHED TO THE GROUND.
- 8.4. PLANTS SHALL BE IN A MOIST, VIGOROUS CONDITION, FREE FROM DEAD WOOD, BRUISES, OR OTHER ROOT OR BRANCH INJURIES.

ACCESSORIES

TOPSOIL SHALL BE FERTILE, FRABLE, NATURAL, TOPSOIL OF LOAMY CHARACTER, WITHOUT ADMIXTURE OF SUBSOIL MATERIAL, OBTAINED FROM A WELL-DRAINED ARABLE SITE, REASONABLY FREE FROM CLAY, LUMPS, COARSE SANDS, STONES, ROOTS, STICKS, AND OTHER FOREIGN MATERIALS, WITH ACIDITY RANGE OF BETWEEN PH 6.0 AND 6.8.

NOTE: ALL PLANTING AREAS SHALL BE CLEARED OF CONSTRUCTION DEBRIS (IE. CONCRETE, RUBBLE, STONES, BUILDING MATERIAL, ETC.) PRIOR TO ADDING AND SPREADING OF THE TOP SOIL.

1. SOD AREAS: SPREAD A MINIMUM 4" LAYER OF TOP SOIL AND RAKE SMOOTH.
2. PLANTING BED AREAS: SPREAD A MINIMUM 4" LAYER OF TOP SOIL AND RAKE SMOOTH.
3. LANDSCAPE ISLANDS/MEDIAIS: FRACTURE/LOOSEN EXISTING SUBGRADE TO A MINIMUM 24" DEPTH. REMOVE AND REPLACE ANY SUBGRADE UNSUITABLE FOR PLANTING. ONCE SUBGRADE IS CLEAN OF DEBRIS AND LOOSENED, ADD TOPSOIL TO A MINIMUM BERM 6" DEPTH ABOVE ISLAND CURBING.
4. ANNUAL/PERENNIAL BED AREAS: ADD A MINIMUM OF 4" ORGANIC MATTER AND TILL TO A MINIMUM 12" DEPTH.

MULCH: TYPE SELECTED DEPENDENT ON REGION AND AVAILABILITY; SEE LANDSCAPE PLANS FOR TYPE OF MUXH TO BE USED. HOLD MULCH 4" FROM TREE TRUNKS AND SHRUB STEMS.

1. HARDWOOD: 6 MONTH OLD WELL-ROTTED DOUBLE SHREDDED NATIVE HARDWOOD BARK MULCH NOT LARGER THAN 4" IN LENGTH AND 1/2" IN WIDTH, FREE OF WOOD CHIPS AND SAWDUST. INSTALL MINIMUM DEPTH OF 3".
2. PINE STRAW: PINE STRAW TO BE FRESH HARVEST, FREE OF DEBRIS, BRIGHT IN COLOR. BALES TO BE WIRED AND TIGHTLY BOUND. NEEDLES TO BE DRY. INSTALL MINIMUM DEPTH OF 3".
3. RIVER ROCK: (COLOR) LIGHT GRAY TO BUFF TO DARK BROWN, WASHED RIVER ROCK, 1" - 3" IN SIZE. INSTALL IN SHRUB BEDS TO AN EVEN DEPTH OF 3". WEED CONTROL BARRIER TO BE INSTALLED UNDER ALL ROCK MULCH AREAS. USE CAUTION DURING INSTALLATION NOT TO DAMAGE PLANT MATERIAL.
4. MINI NUGGETS: INSTALL TO A MINIMUM DEPTH OF 2"-3" AT ALL LOCATIONS OF ANNUAL AND PERENNIAL BEDS. LIFT THE STEMS AND LEAVES OF THE ANNUALS AND CAREFULLY SPREAD THE MULCH TO AVOID INJURING THE PLANTS. GENTLY BRUSH THE MULCH OFF THE PLANTS.

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GUIYING/STAKING:

1. ARBORTIE: GREEN (OR WHITE) STAKING AND GUIYING MATERIAL TO BE FLAT, WOVEN, POLYPROPYLENE MATERIAL, 1/2" WIDE 900 LB. BREAK STRENGTH. ARBORTIE SHALL BE FASTENED TO STAKES IN A MANNER WHICH PERMITS TREE MOVEMENT AND SUPPORTS THE TREE.
2. REMOVE GUIYING/STAKING AFTER ONE YEAR FROM PLANTING.

TREE WRAP: TREE WRAPS SHOULD BE USED ON YOUNG, NEWLY PLANTED THIN-BARKED TREES (CHERRY, CRABAPPLE, HONEY LOCUST, LINDEN, MAPLE, MOUNTAIN ASH, PLUM) THAT ARE MOST SUSCEPTIBLE TO SUN SCALD/SUNBURN. STANDARD WATERPROOFED TREE WRAPPING PAPER, 2-1/2" WIDE, MADE OF 2 LAYERS OF CREPE DRAFT PAPER WEIGHING NOT LESS THAN 30 LBS. PER REAM, CEMENTED TOGETHER WITH ASPHALT. WRAP THE TREE IN THE FALL AND LEAVE THE WRAP IN PLACE THROUGHOUT THE WINTER AND EARLY SPRING. TREE WRAPS ARE TEMPORARY AND NO LONGER NEEDED ONCE TREES DEVELOP CORKY BARK.

PART 3 – EXECUTION

INSPECTION

PRIOR TO BEGINNING WORK, THE LANDSCAPE CONTRACTOR SHALL INSPECT THE SUBGRADE, GENERAL SITE CONDITIONS, VERIFY ELEVATIONS, UTILITY LOCATIONS, IRRIGATION, APPROVE TOP SOIL PROVIDED BY THE GENERAL CONTRACTOR AND OBSERVE THE SITE CONDITIONS UNDER WHICH THE WORK IS TO BE DONE. NOTIFY THE GENERAL CONTRACTOR OF ANY UNSATISFACTORY CONDITIONS, AND WORK SHALL NOT PROCEED UNTIL SUCH CONDITIONS HAVE BEEN CORRECTED AND ARE ACCEPTABLE TO THE LANDSCAPE CONTRACTOR.

PREPARATION

PLANTING SHALL BE PERFORMED ONLY BY EXPERIENCED WORKMEN FAMILIAR WITH PLANTING PROCEDURES UNDER THE SUPERVISION OF A QUALIFIED SUPERVISOR.

LOCATE PLANTS AS INDICATED ON THE PLANS OR AS APPROVED IN THE FIELD AFTER STAKING BY THE LANDSCAPE CONTRACTOR. IF OBSTRUCTIONS ARE ENCOUNTERED THAT ARE NOT SHOWN ON THE DRAWINGS, DO NOT PROCEED WITH PLANTING OPERATIONS UNTIL ALTERNATE PLANT LOCATIONS HAVE BEEN SELECTED AND APPROVED BY THE LANDSCAPE ARCHITECT; SPACING OF PLANT MATERIAL SHALL BE AS SHOWN ON THE LANDSCAPE PLAN.

EXCAVATE CIRCULAR PLANT PIT WITH VERTICAL SIDES, EXCEPT FOR PLANTS SPECIFICALLY INDICATED TO BE PLANTED IN BEDS. PROVIDE SHRUB PITS AT LEAST 12" GREATER THAN THE DIAMETER OF THE ROOT SYSTEM AND 24" GREATER FOR TREES. DEPTH OF PIT SHALL ACCOMMODATE THE ROOT SYSTEM. PROVIDE UNDISTURBED SUB GRADE TO HOLD ROOT BALL AT NURSERY GRADE AS SHOWN ON THE DRAWINGS.

INSTALLATION

SET PLANT MATERIAL IN THE PLANTING PIT TO PROPER GRADE AND ALIGNMENT. SET PLANTS UPRIGHT, PLUME, AND FACED TO GIVE THE BEST APPEARANCE OR RELATIONSHIP TO EACH OTHER OR ADJACENT STRUCTURE. SET PLANT MATERIAL 2" - 3" ABOVE THE FINISH GRADE. NO FILLING WILL BE PERMITTED AROUND TRUNKS OR STEMS. BACKFILL THE PIT WITH TOPSOIL MIX AND EXCAVATED MATERIAL. DO NOT USE FROZEN OR MUDDY MIXTURES FOR BACKFILLING. FORM A RING OF SOIL AROUND THE EDGE OF EACH PLANTING PIT TO RETAIN WATER.

AFTER BALLED AND WRAPPED IN BURLAP PLANTS ARE SET, MIDDLE PLANTING SOIL MIXTURE AROUND BASES OF BALLS AND FILL ALL VOIDS.

1. REMOVE ALL BURLAP, ROPES, AND WIRES FROM THE TOP 1/3 OF THE ROOT BALL.

SPACE GROUND COVER PLANTS IN ACCORDANCE WITH INDICATED DIMENSIONS. ADJUST SPACING AS NECESSARY TO EVENLY FILL PLANTING BED WITH INDICATED QUANTITY OF PLANTS. PLANT TO WITHIN 24" OF THE TRUNKS OF TREES AND SHRUBS WITHIN PLANTING BED AND TO WITHIN 18" OF EDGE OF BED.

MULCHING:

1. MULCH TREE AND SHRUB PLANTING PITS AND SHRUB BEDS WITH REQUIRED MULCHING MATERIAL (SEE LANDSCAPE PLAN FOR MULCH TYPE); DEPTH OF MULCH AS NOTED ABOVE. HOLD MULCH BACK 4" AWAY FROM TREE TRUNKS AND SHRUB STEMS. THOROUGHLY WATER MULCHED AREAS. AFTER WATERING, RAKE MULCH TO PROVIDE A UNIFORM FINISHED SURFACE.

DECORATIVE STONE: (WHERE INDICATED ON LANDSCAPE PLAN)

1. INSTALL WEED CONTROL BARRIER OVER SUB-GRADE PRIOR TO INSTALLING STONE. LAP 6" ON ALL SIDES.
2. PLACE STONE WITHOUT DAMAGING WEED BARRIER.
3. ARRANGE STONES FOR BEST APPEARANCE AND TO COVER ALL WEED BARRIER FABRIC.

WRAPPING, GUIYING, STAKING:

1. INSPECT TREES FOR INJURY TO TRUNKS, EVIDENCE OF INSECT INFESTATION, AND IMPROPER PRUNING BEFORE WRAPPING.
2. WRAPPING:
 - 2.1. WRAP TRUNKS OF ALL YOUNG NEWLY PLANTED TREES KNOWN TO HAVE THIN BARK. WRAP SPIRALLY FROM BOTTOM TO TOP WITH SPECIFIED TREE WRAP AND SECURE IN PLACE.
 - 2.2. OVERLAP 1/2" THE WIDTH OF THE TREE WRAP STRIP AND COVER THE TRUNK FROM THE GROUND TO THE HEIGHT OF THE SECOND BRANCH.
 - 2.3. SECURE TREE WRAP IN PLACE WITH TWINE WOUND SPIRALLY DOWNWARD IN THE OPPOSITE DIRECTION, TIED AROUND THE TREE IN AT LEAST 3 PLACES IN ADDITION TO THE TOP AND BOTTOM.
 - 2.4. WRAP THE TREES IN THE FALL AND LEAVE THE WRAP IN PLACE THROUGHOUT THE WINTER AND EARLY SPRING.
- 2.5. TREE WRAPS ARE TEMPORARY AND NO LONGER NEEDED ONCE THE TREES DEVELOP CORKY BARK.
3. STAKING/GUING:
 - 3.1. STAKE/GUY ALL TREES IMMEDIATELY AFTER LAWN SODDING OPERATIONS AND PRIOR TO ACCEPTANCE.
 - 3.2. STAKE DECIDUOUS TREES 2" CALIPER AND LESS. STAKE EVERGREEN TREES UNDER 7'-0" TALL.
 - 3.2.1. STAKES ARE PLACED IN LINE WITH PREVAILING WIND DIRECTION AND DRIVEN INTO UNDISTURBED SOIL.
 - 3.2.2. TIES ARE ATTACHED TO THE TREE, USUALLY AT THE LOWEST BRANCH.
 - 3.3. GUY DECIDUOUS TREES OVER 2" CALIPER. GUY EVERGREEN TREES 7'-0" TALL AND OVER.
 - 3.3.1. GUY WIRES TO BE ATTACHED TO THREE STAKES DRIVEN INTO UNDISTURBED SOIL, WITH ONE STAKE PLACED IN THE DIRECTION OF THE PREVAILING WIND.
 - 3.3.2. TIES ARE ATTACHED TO THE TREE AS HIGH AS PRACTICAL.
 - 3.3.3. THE AXIS OF THE STAKE SHOULD BE AT 90 DEGREE ANGLE TO THE AXIS ON THE PULL OF THE GUY WIRE.
4. REMOVE ALL GUIYING AND STAKING AFTER ONE YEAR FROM PLANTING.

PRUNING:

1. PRUNE DECIDUOUS TREES AND EVERGREENS ONLY TO REMOVE BROKEN OR DAMAGED BRANCHES.

WORKMANSHIP

DURING LANDSCAPE/IRRIGATION INSTALLATION OPERATIONS, ALL AREAS SHALL BE KEPT NEAT AND CLEAN. PRECAUTIONS SHALL BE TAKEN TO AVOID DAMAGE TO EXISTING STRUCTURES. ALL WORK SHALL BE PERFORMED IN A SAFE MANNER TO THE OPERATORS, THE OCCUPANTS AND ANY PEDESTRIANS.

UPON COMPLETION OF INSTALLATION OPERATIONS, ALL EXCESS MATERIALS, EQUIPMENT, DEBRIS AND WASTE MATERIAL SHALL BE CLEANED UP AND REMOVED FROM THE SITE. UNLESS PROVISIONS HAVE BEEN GRANTED BY THE OWNER TO USE ON-SITE TRASH RECEPTACLES, SWEEP PARKING AND WALKS CLEAN OF DIRT AND DEBRIS. REMOVE ALL PLANT TAGS AND OTHER DEBRIS FROM LAWNS AND PLANTING AREAS.

ANY DAMAGE TO THE LANDSCAPE, THE STRUCTURE, OR THE IRRIGATION SYSTEM CAUSED BY THE LANDSCAPE CONTRACTOR SHALL BE REPAIRED BY THE LANDSCAPE CONTRACTOR WITHOUT CHARGE TO THE OWNER.

MAINTENANCE

CONTRACTOR SHALL PROVIDE MAINTENANCE UNTIL WORK HAS BEEN ACCEPTED BY THE OWNER'S REPRESENTATIVE.

MAINTENANCE SHALL INCLUDE MOWING, FERTILIZING, MULCHING, PRUNING, CULTIVATION, WEEDING, WATERING, AND APPLICATION OF APPROPRIATE INSECTICIDES AND FUNGICIDES NECESSARY TO MAINTAIN PLANTS AND LAWNS FREE OF INSECTS AND DISEASE.

1. RE-SET SETTLED PLANTS TO PROPER GRADE AND POSITION. RESTORE PLANTING SAUCER AND ADJACENT MATERIAL AND REMOVE DEAD MATERIAL.
2. REPAIR GUY WIRES AND STAKES AS REQUIRED. REMOVE ALL STAKES AND GUY WIRES AFTER 1 YEAR.
3. CORRECT DEFECTIVE WORK AS SOON AS POSSIBLE AFTER DEFICIENCIES BECOME APPARENT AND WEATHER AND SEASON PERMIT.
4. WATER TREES, PLANTS AND GROUND COVER BEDS WITHIN THE FIRST 24 HOURS OF INITIAL PLANTING, AND NOT LESS THAN TWICE PER WEEK UNTIL FINAL ACCEPTANCE.

LANDSCAPE MAINTENANCE SPECIFICATIONS

THE CONTRACTOR SHALL PROVIDE AS A SEPARATE BID, MAINTENANCE FOR A PERIOD OF 1 YEAR AFTER FINAL ACCEPTANCE OF THE PROJECT LANDSCAPING. THE CONTRACTOR MUST BE ABLE TO PROVIDE CONTINUED MAINTENANCE IF REQUESTED BY THE OWNER OR PROVIDE THE NAME OF A REPUTABLE LANDSCAPE CONTRACTOR WHO CAN PROVIDE MAINTENANCE.

STANDARDS

ALL LANDSCAPE MAINTENANCE SERVICES SHALL BE PERFORMED BY TRAINED PERSONNEL USING CURRENT, ACCEPTABLE HORTICULTURAL PRACTICES.

ALL WORK SHALL BE PERFORMED IN A MANNER THAT MAINTAINS THE ORIGINAL INTENT OF THE LANDSCAPE DESIGN.

ALL CHEMICAL APPLICATIONS SHALL BE PERFORMED IN ACCORDANCE WITH CURRENT COUNTY, STATE AND FEDERAL LAWS, USING EPA REGISTERED MATERIALS AND METHODS OF APPLICATION. THESE APPLICATIONS SHALL BE PERFORMED UNDER THE SUPERVISION OF A LICENSED CERTIFIED APPLICATOR.

APPROVALS

ANY WORK PERFORMED IN ADDITION TO THAT WHICH IS OUTLINED IN THE CONTRACT SHALL ONLY BE DONE UPON WRITTEN APPROVAL BY THE OWNER'S REPRESENTATIVE (GENERAL MANAGER OF THE RESTAURANT).

ALL SEASONAL COLOR SELECTIONS SHALL BE APPROVED BY THE GENERAL MANAGER PRIOR TO ORDERING AND INSTALLATION.

SOIL TESTING

THE MAINTENANCE CONTRACTOR SHALL PERFORM SOIL TESTS AS NEEDED TO IDENTIFY IMBALANCES OR DEFICIENCIES CAUSING PLANT MATERIAL DECLINE. THE OWNER SHALL BE NOTIFIED OF THE RECOMMENDATION FOR APPROVAL, AND THE NECESSARY CORRECTIONS MADE AT AN ADDITIONAL COST TO THE OWNER.

ACCEPTABLE SOIL TEST RESULTS

	LANDSCAPE TREES AND SHRUBS	TURF
pH RANGE	6.0 - 7.0	6.0 - 7.0
ORGANIC MATTER	> 1.5%	> 2.5%
MAGNESIUM (Mg)	100+ LBS/ACRE	100+ LBS/ACRE
PHOSPHORUS (P2O5)	150+ LBS/ACRE	150+ LBS/ACRE
POTASSIUM (K2O)	120+ LBS/ACRE	120+ LBS/ACRE
SOLUBLE SALTS/ CONDUCTIVITY	NOT TO EXCEED 900PPM/1.9MMHOS/CM IN SOIL; NOT TO EXCEED 1400 PPM/2.5 MMHOS/CM IN HIGH ORGANIC MIX.	NOT TO EXCEED 900PPM/1.9MMHOS/CM IN SOIL; NOT TO EXCEED 1400 PPM/2.5 MMHOS/CM IN HIGH ORGANIC MIX.

WORKMANSHIP

DURING LANDSCAPE MAINTENANCE OPERATIONS, ALL AREAS SHALL BE KEPT NEAT AND CLEAN. PRECAUTIONS SHALL BE TAKEN TO AVOID DAMAGE TO EXISTING STRUCTURES. ALL WORK SHALL BE PERFORMED IN A SAFE MANNER TO THE OPERATORS, THE OCCUPANTS AND ANY PEDESTRIANS.

UPON COMPLETION OF MAINTENANCE OPERATIONS, ALL DEBRIS AND WASTE MATERIAL SHALL BE CLEANED UP AND REMOVED FROM THE SITE. UNLESS PROVISIONS HAVE BEEN GRANTED BY THE OWNER TO USE ON-SITE TRASH RECEPTACLES.

ANY DAMAGE TO THE LANDSCAPE, THE STRUCTURE, OR THE IRRIGATION SYSTEM CAUSED BY THE MAINTENANCE CONTRACTOR, SHALL BE REPAIRED BY THE MAINTENANCE CONTRACTOR WITHOUT CHARGE TO THE OWNER.

TURF

GENERAL CLEAN UP

PRIOR TO MOWING, ALL TRASH, STICKS, AND OTHER UNWANTED DEBRIS SHALL BE REMOVED FROM LAWNS, PLANT BEDS, AND PAVED AREAS.

MOWING

WARM SEASON GRASSES (I.E. BERMUDA GRASS) SHALL BE MAINTAINED AT A HEIGHT OF 1" TO 2" DURING THE GROWING SEASON.

COOL SEASON GRASSES, INCLUDING BLUE GRASS, TALL FESCUE, PERENNIAL RYEGRASS, ETC., SHALL BE MAINTAINED AT A HEIGHT OF 2" TO 3" IN SPRING AND FALL. FROM JUNE THROUGH SEPTEMBER, MOWING HEIGHT SHALL BE MAINTAINED AT NO LESS THAN 3".

THE MOWING OPERATION INCLUDES TRIMMING AROUND ALL OBSTACLES, RAKING EXCESSIVE GRASS CLIPPINGS AND REMOVING DEBRIS FROM WALKS, CURBS, AND PARKING AREAS. CAUTION: WEED EATERS SHOULD NOT BE USED AROUND TREES BECAUSE OF POTENTIAL DAMAGE TO THE BARK.

EDGING

EDGING OF ALL SIDEWALKS, CURBS AND OTHER PAVED AREAS SHALL BE PERFORMED ONCE EVERY OTHER MOWING. DEBRIS FROM THE EDGING OPERATIONS SHALL BE REMOVED AND THE AREAS SWEEP CLEAN. CAUTION SHALL BE USED TO AVOID FLYING DEBRIS.

LIMING & FERTILIZING

A SOIL TEST SHALL BE TAKEN TO DETERMINE WHETHER AN APPLICATION OF LIMESTONE IN LATE FALL IS NECESSARY. IF LIMESTONE IS REQUIRED, THE LANDSCAPE CONTRACTOR SHALL SPECIFY THE RATE, OBTAIN APPROVAL FROM THE OWNER AND APPLY IT AT AN ADDITIONAL COST. A UNIT PRICE FOR LIMING OF TURF SHALL ACCOMPANY THE BID BASED ON A RATE OF 50 POUNDS PER 1000 SQUARE FEET.

FERTILIZER SHALL BE APPLIED IN AREAS BASED ON THE EXISTING TURF SPECIES.

LAWN WEED CONTROL: HERBICIDES

SELECTION AND PROPER USE OF HERBICIDES MUST BE THE LANDSCAPE CONTRACTOR'S RESPONSIBILITY. ALL CHEMICAL APPLICATIONS SHALL BE PERFORMED UNDER THE SUPERVISION OF A LICENSED CERTIFIED APPLICATOR. **READ THE LABEL PRIOR TO APPLYING ANY CHEMICAL.**

INSECT & DISEASE CONTROL FOR TURF

THE CONTRACTOR SHALL BE RESPONSIBLE FOR MONITORING THE SITE CONDITIONS ON EACH VISIT TO DETERMINE IF ANY INSECT PEST OR DISEASE PROBLEMS EXIST. THE CONTRACTOR SHALL IDENTIFY THE INSECT PEST OR DISEASE, AS WELL AS THE HOST PLANT, AND THEN CONSULT THE MOST CURRENT EDITION OF THE COOPERATIVE EXTENSION SERVICE'S "COMMERCIAL INSECTICIDE RECOMMENDATION FOR TURF" FOR CONTROL. THE LICENSED APPLICATOR SHALL BE FAMILIAR WITH THE LABEL PROVIDED FOR THE SELECTED PRODUCT PRIOR TO APPLICATION.

INSPECTION AND TREATMENT TO CONTROL INSECT PESTS SHALL BE INCLUDED IN THE CONTRACT PRICE.

TREES, SHRUBS, & GROUND COVER

PRUNING

ALL ORNAMENTAL TREES, SHRUBS AND GROUND COVER SHALL BE PRUNED WHEN APPROPRIATE TO REMOVE DEAD OR DAMAGED BRANCHES. DEVELOP THE NATURAL SHAPES. **DO NOT SHEAR TREES OR SHRUBS.** IF PREVIOUS MAINTENANCE PRACTICE HAS BEEN TO SHEAR AND BALL, THEN A NATURAL SHAPE WILL BE RESTORED GRADUALLY.

PRUNING GUIDELINES:

1. PRUNE THOSE THAT FLOWER BEFORE THE END OF JUNE IMMEDIATELY AFTER FLOWERING. FLOWER BUDS DEVELOP DURING THE PREVIOUS GROWING SEASON. FALL, WINTER OR SPRING PRUNING WOULD REDUCE THE SPRING FLOWERING DISPLAY.
2. PRUNE THOSE THAT FLOWER IN SUMMER OR AUTUMN IN WINTER OR SPRING BEFORE NEW GROWTH BEGINS, SINCE THESE PLANTS DEVELOP FLOWERS ON NEW GROWTH.
3. DELAY PRUNING PLANTS GROWN FOR ORNAMENTAL FRUITS, SUCH AS COTONEASTERS, PYRACANTHAS AND VIBURNUMS.
4. HOLLIES AND OTHER EVERGREENS MAY BE PRUNED DURING WINTER IN ORDER TO USE THEIR BRANCHES FOR SEASONAL DECORATION. HOWEVER, SEVERE PRUNING OF EVERGREENS SHOULD BE DONE IN EARLY SPRING ONLY.
5. BROAD-LEAF EVERGREEN SHRUBS SHALL BE HAND-PRUNED TO MAINTAIN THEIR NATURAL APPEARANCE AFTER THE NEW GROWTH HARDENS OFF.
6. HEDGES OR SHRUBS THAT REQUIRE SHEARING TO MAINTAIN A FORMAL APPEARANCE SHALL BE PRUNED AS REQUIRED. DEAD WOOD SHALL BE REMOVED FROM SHEARED PLANTS BEFORE THE FIRST SHEARING OF THE SEASON.
7. CONIFERS SHALL BE PRUNED, IF REQUIRED, ACCORDING TO THEIR GENUS.
 - 7.1. YEW(S), JUNIPERS, HEMLOCKS, ARBORVITAE, AND FALSE-CYPRESS MAY BE PRUNED AFTER NEW GROWTH HAS HARDENED OFF IN LATE SUMMER. IF SEVERE PRUNING IS NECESSARY, IT MUST BE DONE IN EARLY SPRING.
 - 7.2. PINES AND SPRUCES MAY BE LIGHTLY PRUNED IN LATE SUMMER, FALL, OR WINTER AFTER COMPLETING GROWTH. LEAVE SIDE BUDS. NEVER CUT CENTRAL LEADER.
 - 7.3. PINES MAY BE LIGHTLY PRUNED IN EARLY JUNE BY REDUCING CANDLES.
8. GROUNDCOVER SHALL BE EDGED AND PRUNED AS NEEDED TO CONTAIN IT WITHIN ITS BORDERS.
9. THINNING: REMOVE BRANCHES AND WATER SPROUTS BY CUTTING THEM BACK TO THEIR POINT OF ORIGIN ON PARENT STEMS. THIS METHOD RESULTS IN A MORE OPEN PLANT, WITHOUT STIMULATING EXCESSIVE GROWTH. THINNING IS USED ON CREPE MYRTLES, LILACS, VIBURNUMS, SMOKE BUSH, ETC.
10. RENEWAL PRUNING: REMOVE OLDEST BRANCHES OF SHRUB AT GROUND, LEAVING THE YOUNGER, MORE VIGOROUS BRANCHES. ALSO REMOVE WEAK STEMS, ON OVERGROWN PLANTS. THIS METHOD MAY BE BEST DONE OVER A THREE-YEAR PERIOD. RENEWAL PRUNING MAY BE USED ON ABELIA, FORSYTHIA, DEUTZIA, SPIREA, ETC.

PLANTS OVERHANGING PASSAGEWAYS AND PARKING AREAS AND DAMAGED PLANTS SHALL BE PRUNED AS NEEDED.

SHADE TREES THAT CANNOT BE ADEQUATELY PRUNED FROM THE GROUND SHALL NOT BE INCLUDED IN THE MAINTENANCE CONTRACT. A CERTIFIED ARBORIST UNDER A SEPARATE CONTRACT SHALL PERFORM THIS TYPE OF WORK.

SPRING CLEANUP

PLANT BEDS SHALL RECEIVE A GENERAL CLEANUP BEFORE FERTILIZING AND MULCHING. CLEANUP INCLUDES REMOVING DEBRIS AND TRASH FROM BEDS AND CUTTING BACK HERBACEOUS PERENNIALS LEFT STANDING THROUGH WINTER, E.G. ORNAMENTAL GRASSES, SEDUM AUTUMN JOY.

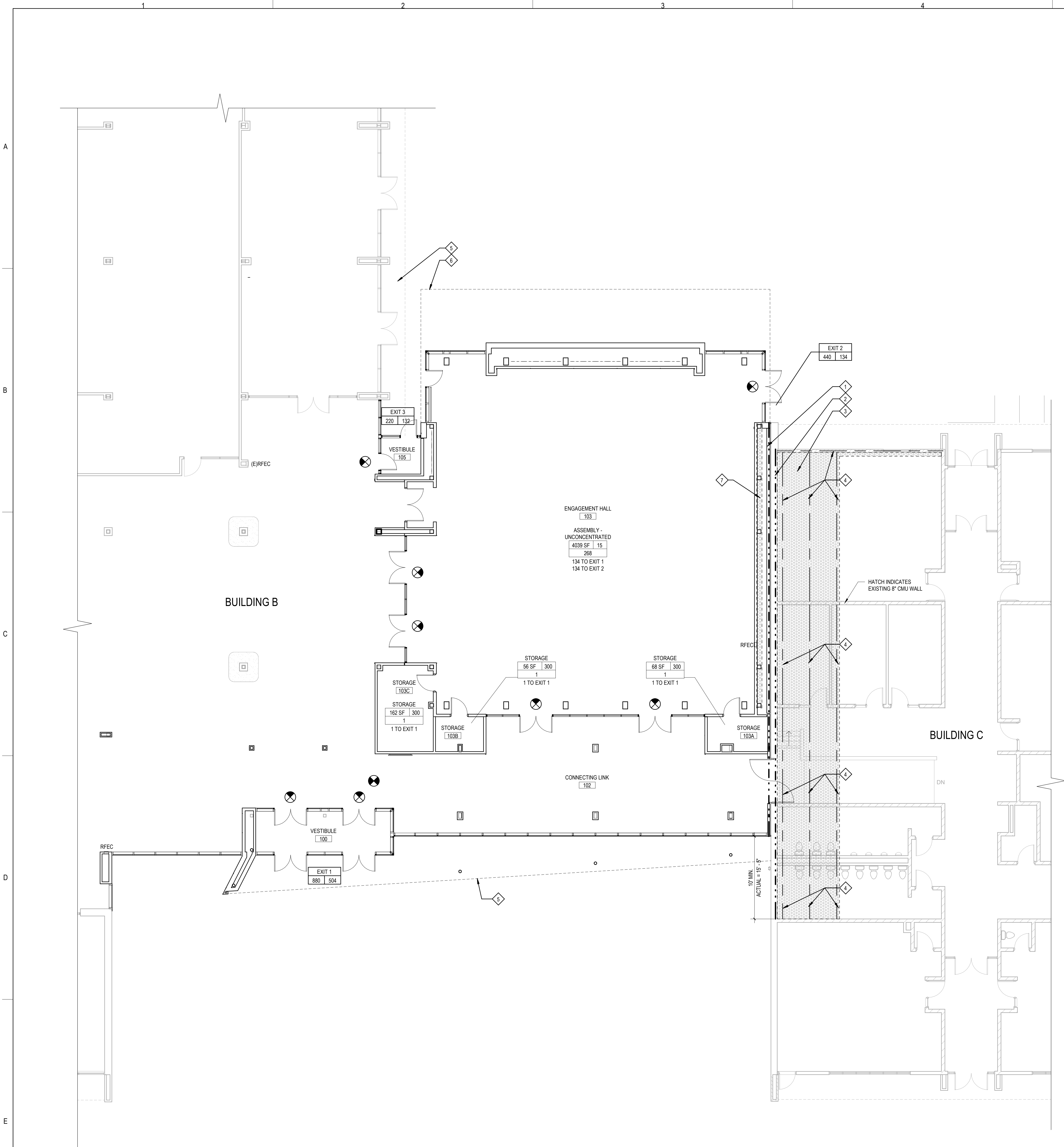
FERTILIZING

FOR TREES, THE RATE OF FERTILIZATION DEPENDS ON THE TREE SPECIES, TREE VIGOR, AREA AVAILABLE FOR FERTILIZATION, AND GROWTH STAGE OF THE TREE. MATURE SPECIMENS BENEFIT FROM FERTILIZATION EVERY 3 TO 4 YEARS. YOUNGER TREES SHALL BE FERTILIZED MORE OFTEN DURING RAPID GROWTH STAGES.

THE CURRENT RECOMMENDATION IS BASED ON THE RATE OF 1000 SQUARE FEET OF AREA UNDER THE TREE TO BE FERTILIZED. FOR DECIDUOUS TREES, 2 TO 6 POUNDS OF NITROGEN PER 1000 SQUARE FEET; FOR NARROW-LEAF EVERGREENS, 1 TO 4 POUNDS OF NITROGEN PER 1000 SQUARE FEET; FOR BROAD-LEAF EVERGREENS, 1 TO 3 POUNDS OF NITROGEN PER 1000 SQUARE FEET.

SHRUBS AND GROUNDCOVER SHALL BE TOP-DRESSED WITH COMPOST 1" DEEP, OR FERTILIZED ONCE IN MARCH WITH 10-6-4 ANALYSIS FERTILIZER AT THE RATE OF 3 POUNDS PER 100 SQUARE FEET OF BED AREA. ERICACEOUS MATERIAL SHALL BE FERTILIZED WITH AN ERICACEOUS FERTILIZER AT THE MANUFACTURER'S RECOMMENDATION RATE. IF PLANTS ARE GROWING POORLY, A SOIL SAMPLE SHOULD BE TAKEN.

MULCHING



CODE COMPLIANCE NOTES:

APPLICABLE CODES:
2021 INTERNATIONAL BUILDING CODE*
2018 INTERNATIONAL MECHANICAL CODE
2018 NATIONAL ELECTRICAL CODE
2018 NFPA 101 LIFE SAFETY CODE
CURRENT EDITION, FIRE PREVENTION AND SAFETY CODE
CURRENT EDITION, ILLINOIS PLUMBING CODE
CURRENT EDITION (2018), ILLINOIS ACCESSIBILITY CODE
CURRENT EDITION (2021), ILLINOIS ENERGY CONSERVATION CODE

BUILDING AREA AND HEIGHT SUMMARY:

FIRST FLOOR - EXISTING (GROSS): 41,747 SF
FIRST FLOOR - ADDITION (GROSS): 5,283 SF
FIRST FLOOR - TOTAL (GROSS): 47,030 SF
SECOND FLOOR - TOTAL (GROSS): 20,437 SF
BUILDING HEIGHT: 24 FEET, 2 STORY

BUILDING CODE CLASSIFICATION:

*AS REVIEWED WITH LOCAL AHJ (THE CITY OF CRYSTAL LAKE), IT IS ACCEPTABLE FOR THE NEW ADDITION TO FOLLOW IBC 2021 FOR ALLOWABLE CONSTRUCTION MATERIALS UNDER TYPE II-B AND ALLOWABLE FLOOR AREA FRONTAGE INCREASE. REFER TO CODE REVIEW ITEMS FOR SPECIFIC VARIANCE ITEMS.

1. MIXED USE SEPARATE OCCUPANCY (SEE #3)
USE: A-1, A-2, A-3, B, M
RATIO (2021) 0.9802

2. CONSTRUCTION TYPE: TYPE IIB, FULLY SPRINKLERED

3. ALLOWABLE AREA AND HEIGHT, BASED ON USE GROUP A-1:
BASE FLOOR AREA: (IBC 2021) 25,500 SF
FRONTAGE INCREASE, 64% ACCESS: (IBC 2021) 16,381 SF
MAX. AREA PER FLOOR: (IBC 2021) 41,981 SF
BASE BUILDING HEIGHT: 2 STORIES, 55 FEET
AUTOMATIC SPRINKLER INCREASE: 1 STORY, 20 FEET
MAX. BUILDING HEIGHT: 3 STORIES, 75 FEET

ALLOWABLE AREA AND HEIGHT, BASED ON USE GROUP A-2/A-3:
BASE FLOOR AREA: (IBC 2021) 28,500 SF
FRONTAGE INCREASE, 64% ACCESS: (IBC 2021) 18,308 SF
MAX. AREA PER FLOOR: (IBC 2021) 46,808 SF
BASE BUILDING HEIGHT: 2 STORIES, 55 FEET
AUTOMATIC SPRINKLER INCREASE: 1 STORY, 20 FEET
MAX. BUILDING HEIGHT: 3 STORIES, 75 FEET

ALLOWABLE AREA AND HEIGHT, BASED ON USE GROUP B:
BASE FLOOR AREA: (IBC 2021) 69,000 SF
FRONTAGE INCREASE, 64% ACCESS: (IBC 2021) 44,326 SF
MAX. AREA PER FLOOR: (IBC 2021) 113,326 SF
BASE BUILDING HEIGHT: 3 STORIES, 55 FEET
AUTOMATIC SPRINKLER INCREASE: 1 STORY, 20 FEET
MAX. BUILDING HEIGHT: 4 STORIES, 75 FEET

ALLOWABLE AREA AND HEIGHT, BASED ON USE GROUP M:
BASE FLOOR AREA: (IBC 2021) 37,500 SF
FRONTAGE INCREASE, 64% ACCESS: (IBC 2021) 24,090 SF
MAX. AREA PER FLOOR: (IBC 2021) 61,590 SF
BASE BUILDING HEIGHT: 2 STORIES, 55 FEET
AUTOMATIC SPRINKLER INCREASE: 1 STORY, 20 FEET
MAX. BUILDING HEIGHT: 3 STORIES, 75 FEET

4. ACTUAL AREA, USE GROUP A-1:
ALLOWABLE AREA, USE GROUP A-1:
RATIO OF ACTUAL/ALLOWABLE: (IBC 2021) 41,981 SF (IBC 2021) 1.28

ACTUAL AREA, USE GROUP A-2/A-3:
ALLOWABLE AREA, USE GROUP A-2/A-3:
RATIO OF ACTUAL/ALLOWABLE: (IBC 2021) 46,808 SF (IBC 2021) 1.28

ACTUAL AREA, USE GROUP B:
ALLOWABLE AREA, USE B:
RATIO OF ACTUAL/ALLOWABLE: (IBC 2021) 113,326 SF (IBC 2021) 0.113

ACTUAL AREA, USE GROUP M:
ALLOWABLE AREA, USE GROUP M:
RATIO OF ACTUAL/ALLOWABLE: (IBC 2021) 61,590 SF (IBC 2021) 0.656

5. FIRE RESISTANCE RATINGS, TYPE IIB CONSTRUCTION:
STRUCTURAL FRAME: 0 HRS
EXTERIOR BEARING WALLS: 0 HRS
INTERIOR BEARING WALLS: 0 HRS
EXTERIOR NON-BEARING WALLS: 0 HRS
INTERIOR NON-BEARING WALLS: 0 HRS
FLOOR CONSTRUCTION: 0 HRS
ROOF CONSTRUCTION: 0 HRS

6. FIRE RESISTANCE-RATED SEPARATIONS:
A. EXIT ACCESS COMPONENTS
CORRIDORS: 0 HR

B. INCIDENTAL USE AREAS (PROVIDE RATINGS AS SHOWN ON PLAN)
WALLS: FIRE BARRIER
FLOORS/CEILINGS (MATCH WALLS): HORIZ. ASSEMBLY

8. EXIT ACCESS TRAVEL DISTANCES, WITH SPRINKLER SYSTEM:
USE A: ASSEMBLY: 250 FT.
USE A-3: ASSEMBLY: 75 FT.

9. COMMON PATH OF EGRESS TRAVEL, WITH SPRINKLER SYSTEM:
USE A-3: ASSEMBLY: 75 FT.

10. DEAD END CORRIDOR LENGTH, WITH SPRINKLER SYSTEM:
USE A-1: ASSEMBLY: 20 FT.

CODE COMPLIANCE PLAN SYMBOLS LEGEND:

NOTE: REFER TO M.E.P.F.P. DRAWINGS FOR ADDITIONAL INFORMATION ON MECHANICAL, ELECTRICAL, AND FIRE PROTECTION SYSTEMS

ROOM/OCCUPANT LOAD

FUNCTION OF SPACE
ASTERISK INDICATES REQUIREMENT TO POST A ROOM OCCUPANT LOAD PLACARD
ROOM OR AREA SQUARE FOOTAGE
SQUARE FOOTAGE PER OCCUPANT
MAXIMUM OCCUPANT LOAD PER DESIGN
OCCUPANT LOAD AND ASSIGNED EXIT DISCHARGE

EXIT ACCESS TRAVEL DISTANCE

TRAVEL DISTANCE TO NEAREST EXIT ACCESS
LINETYPE DENOTES COMMON PATH OF EGRESS TRAVEL
TRAVEL DISTANCE ON COMMON PATH OF EGRESS
DENOTES END OF COMMON PATH OF EGRESS TRAVEL
DENOTES DIRECTION OF ALTERNATE PATH OF EGRESS
EXIT DISCHARGE

EXIT OCCUPANT LOAD

EXIT DISCHARGE NUMBER
ACTUAL OCCUPANT LOAD PER DESIGN
MAXIMUM OCCUPANT LOAD PER DESIGN

EXIT SIGNS

SOLID HATCH DENOTES EXIT SIGN FACE PLATE
DIRECTION OF EGRESS
EXIT SIGN, WALL MOUNTED

FIRE-RESISTANCE-RATED SEPARATION TYPES

*SEE WALL TYPES FOR CONSTRUCTION REQUIREMENTS

FW FIRE WALL HA HORIZ. ASSEMBLY
FB FIRE BARRIER SH SHAFT ENCLOSURE
FP FIRE PARTITION SB SMOKE BARRIER

SMOKE PARTITION

1 HR FIRE-RESISTANCE-RATED CONSTRUCTION

2 HR FIRE-RESISTANCE-RATED CONSTRUCTION

3 HR FIRE-RESISTANCE-RATED CONSTRUCTION

4 HR FIRE-RESISTANCE-RATED CONSTRUCTION

DEVICES

FE WALL-MOUNTED FIRE EXTINGUISHER
SPEC SEMI-RECESSED FIRE EXTINGUISHER CABINET
RFEC RECESSED FIRE EXTINGUISHER CABINET
(E)RFEC EXISTING RECESSED FIRE EXTINGUISHER CABINET

CODE PLAN REFERENCED NOTES:

- 2 HR RATED FIRE WALL: NEW
- 2 HR RATED FIRE WALL: EXISTING
- HATCH INDICATES AREA OF ROOF DECK AND SUPPORTING STRUCTURE THAT IS TO BE PROVIDED WITH 1-HR RATED SPRAY APPLIED FIRE RESISTIVE MATERIAL
- PROVIDE 1-HR RATED SPRAY APPLIED FIRE PROOFING AT EXISTING SUPPORTING BEAMS AND JOISTS FOR THE ROOF STRUCTURE AS INDICATED.
- EXTENT OF SOFFIT ABOVE
- EXTENT OF ROOF OVERHANG ABOVE
- HATCH INDICATES AREA 2-HR RATED SPRAY AND INTUMESCENT PAINTING APPLIED FIRE RESISTIVE MATERIAL APPLIED TO COLUMNS AND BRACING SUPPORTING NEW 2-HR RATED FIRE WALL. (REFER TO WALL SECTIONS FOR DETAILS)



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DKA PROJECT NO: 24-027

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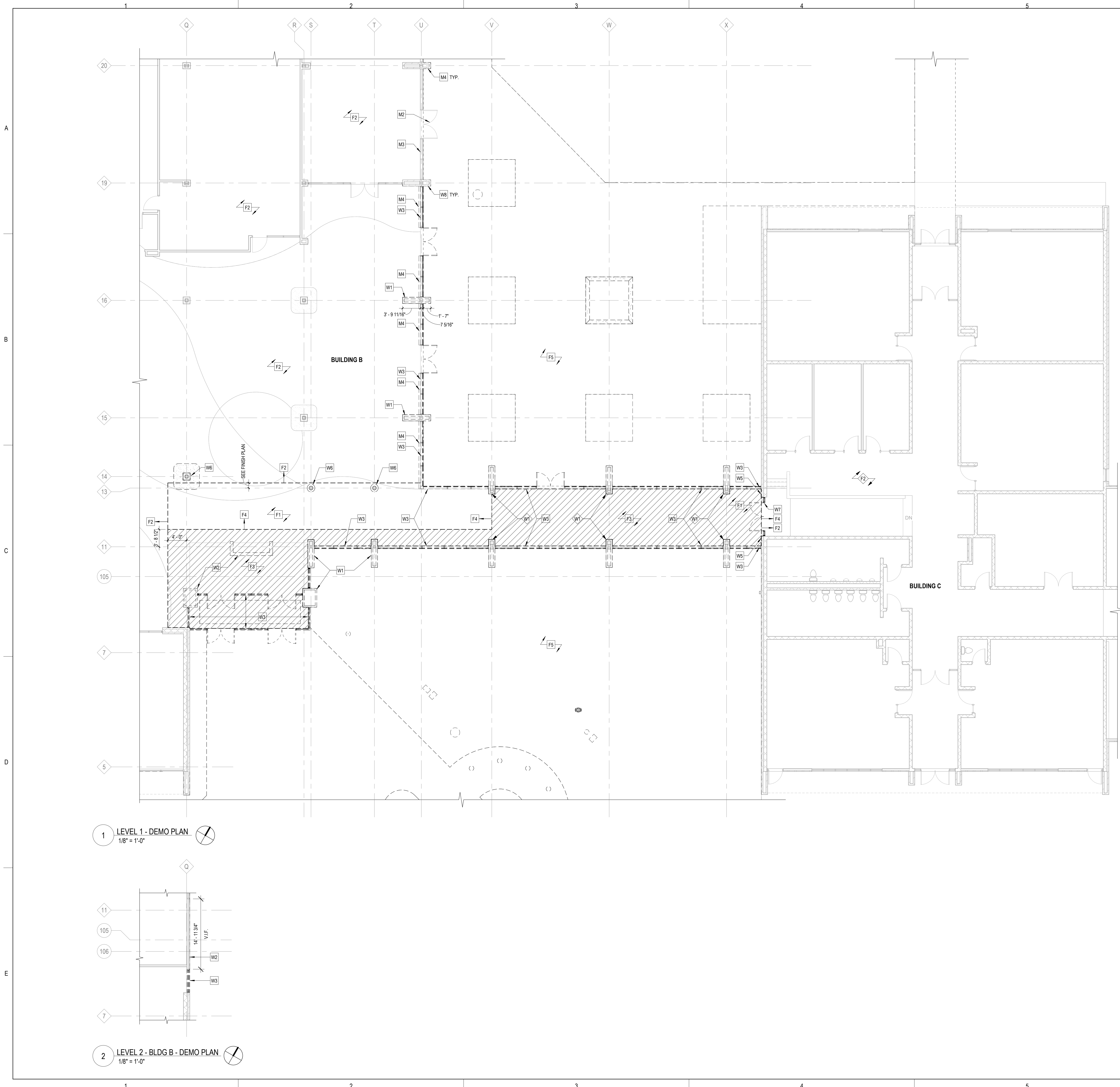
CODE PLAN

SHEET NUMBER:

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



DEMO SYMBOLS LEGEND:

- NOTE: REFER TO M.E.P.P. DRAWINGS FOR ADDITIONAL INFORMATION ON MECHANICAL, ELECTRICAL, AND FIRE PROTECTION SYSTEMS
- HATCH INDICATES AREA NOT IN SCOPE
 - GYPSUM BOARD OR PLASTER PARTITION TO BE REMOVED
 - CMU PARTITION TO BE REMOVED
 - FRAME AND DOOR TO BE REMOVED, SALVAGE HARDWARE TO OWNER
 - SUSPENDED ACOUSTICAL TILE CEILING TO BE REMOVED
 - SUSPENDED ACOUSTICAL TILE CEILING TO REMAIN
 - GYPSUM BOARD OR PLASTER CEILING TO BE REMOVED
 - GYPSUM BOARD OR PLASTER CEILING TO REMAIN
 - RECESSED 2x4 LAY-IN LIGHT FIXTURE TO BE REMOVED
 - RECESSED 2x2 LAY-IN LIGHT FIXTURE TO BE REMOVED
 - RECESSED 2x4 LAY-IN LIGHT FIXTURE TO REMAIN
 - RECESSED 2x2 LAY-IN LIGHT FIXTURE TO REMAIN
 - LINEAR LIGHT FIXTURE TO BE REMOVED
 - REMOVE CEILING MOUNTED PROJECTOR - SALVAGE TO OWNER
 - RETURN AIR GRILLE TO BE REMOVED
 - SUPPLY AIR GRILLE TO BE REMOVED
 - RETURN AIR GRILLE TO REMAIN
 - SUPPLY AIR GRILLE TO REMAIN

DEMO GENERAL NOTES:

- PRIOR TO AND DURING ANY DEMOLITION THE CONTRACTOR SHALL VERIFY AND MAINTAIN THE BUILDING'S STRUCTURAL INTEGRITY.
- CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DEMOLITION AS REQUIRED TO INSTALL ALL NEW WORK, REPAIR, PATCH AND FINISH EXISTING FLOORS, WALLS AND CEILINGS DESIGNATED TO REMAIN TO MATCH EXISTING CONDITIONS.
- REMOVE ALL HANGERS, SUSPENSION SYSTEMS, SUPPORT FRAMING, EQUIPMENT PADS, ANCHORS, ATTACHMENT HARDWARE AND RELATED APPURTENANCES CONNECTED WITH THE WORK TO BE DEMOLISHED. IF COMPLETE REMOVAL IS NOT POSSIBLE, CUT DEVICES AS CLOSE AS POSSIBLE TO ADJOINING SURFACES OR ORIGIN OF SUPPORT.
- DURING THE BIDDING PERIOD, EACH BIDDING CONTRACTOR SHALL VISIT THE SITE AND THE FACILITY TO DETERMINE EXISTING CONDITIONS. CONTRACTOR'S FAILURE TO REASONABLY DETERMINE AND/OR ANTICIPATE THE EFFECT OF EXISTING CONDITIONS AND THE WORK INVOLVED THEREBY SHALL NOT BE JUSTIFICATION FOR ADDITIONAL COMPENSATION. NOTIFY ARCHITECT OF ANY DISCREPANCIES.
- ALL MATERIALS, EQUIPMENT, FIXTURES, SYSTEMS, AND ACCESSORIES WHICH ARE TO REMAIN IN SERVICE SHALL BE CLEANED, REPAIRED, ADJUSTED AND PLACED INTO PROPER OPERATIONS IN ALL MODES WITH THE ORIGINAL SYSTEM.
- WHEN TEMPORARY SHORING AND BRACING IS REQUIRED, CONTRACTOR SHALL RETAIN AND PAY FOR THE SERVICES OF A PROFESSIONAL ENGINEER LICENSED TO PRACTICE IN THE STATE WHERE THE PROJECT IS LOCATED, TO DESIGN AND PREPARE DETAILED DRAWINGS.
- CONTRACTOR SHALL COORDINATE SCHEDULE OF DEMOLITION WORK WITH THE OVERALL PHASING PLAN. ALL AREAS SURROUNDING EACH PHASE OF DEMOLITION/CONSTRUCTION WILL BE OCCUPIED BY THE OWNER DURING THE OWNER'S NORMAL BUSINESS HOURS. DEMOLITION WORK SHALL NOT ENCUMBER THE USE OF EXISTING ADJACENT SPACES.
- EACH CONTRACTOR SHALL FOLLOW THE PROGRESS OF THE GENERAL DEMOLITION AND REMODELING WORK TO ASSURE THE ACCESSIBILITY AND SAFETY OF EQUIPMENT AND SYSTEMS IN SERVICE IN ORDER TO PROVIDE FOR THE TIMELY REMOVAL AND/OR RELOCATION OF EQUIPMENT, PIPING, ETC.
- REMOVE ALL ABANDONED CONDUIT BOXES, CONDUCTORS, TELEPHONE LINES, ELECTRIC PANELS, AND ANY OTHER MISCELLANEOUS EQUIPMENT NOT REQUIRED FOR THE NEW FACILITY.
- REMOVE ALL RECESSED FLOOR BOXES, WALKER DUCTS, FLOOR SINKS, HUB DRAINS, ELECTRICAL RECEPTACLES, ETC. AND FILL VOIDS AS REQUIRED.
- REMOVE ALL DOOR STOPS AT ASSOCIATED DOORS TO BE DEMOLISHED.
- NO TOXIC SUBSTANCES HAVE BEEN NOTED ON THE SITE. SHOULD THE CONTRACTOR ENCOUNTER ANY ASBESTOS, ASBESTOS PRODUCTS, PCBs OR OTHER TOXIC SUBSTANCES, THE CONTRACTOR SHOULD REPORT THIS IMMEDIATELY TO THE OWNER IN WRITING PRIOR TO CONTINUING WORK IN THIS AREA. WORK SHALL NOT BE RESUMED EXCEPT BY WRITTEN AUTHORIZATION OR AGREEMENT.
- ALL CONSTRUCTION DEBRIS AND EXCESS MATERIAL IS TO BE REMOVED BY THE CONTRACTOR AT THE END OF EACH WORK DAY. THE JOB SITE IS TO BE LEFT SUFFICIENTLY CLEAN AS TO WARRANT OWNER'S APPROVAL.
- REMOVE ALL CEILING SYSTEMS IN THEIR ENTIRETY, INCLUDING TILE, GRID, SUSPENSION WIRING, ANCHORS AND ALL ASSOCIATED APPURTENANCES.
- PATCH EXISTING PARTITION TO MATCH ADJACENT SURFACES AT REMOVAL OF EXISTING ELECTRICAL DEVICES - REFER TO ELECTRICAL DRAWINGS.

DEMO REFERENCED NOTES:

FLOOR DEMOLITION KEYED NOTES

- F1. REMOVE PORTION OF EXISTING FLOOR FINISH
- F2. EXISTING FLOOR FINISH TO REMAIN
- F3. REMOVE PORTION OF EXISTING SLAB ON GRADE. SEE STRUCT.
- F4. PORTION OF EXISTING SLAB ON GRADE TO REMAIN. SEE STRUCT.
- F5. SEE CIVIL FOR EXTENT AND SCOPE OF SITE DEMOLITION.

WALL DEMOLITION KEYED NOTES

- W1. CAREFULLY REMOVE EXISTING FACE BRICK AND SET ASIDE AND STORE FOR FUTURE REINSTALLATION. REMOVE EXISTING BRICK WALL COLUMN ENCLOSURES AND ALL ASSOCIATED HARDWARE. STEEL COLUMNS TO REMAIN AND PROTECT THROUGHOUT CONSTRUCTION.
- W2. REMOVE GYP / MTL STUD PARTITION TO EXTENTS INDICATED. RELOCATE ANY PIPING OR WIRING FEEDING ANY EXISTING TO REMAIN DEVICES OR FIXTURES. PATCH AND PREP ADJACENT WALLS TO REMAIN FOR NEW WORK.
- W3. REMOVE EXISTING STOREFRONT SYSTEM
- W4. REMOVE OVERHANG, PATCH BRICK WALL AS NEEDED
- W5. REMOVE EXISTING RIBBED WALL BASE
- W6. REMOVE EXISTING COLUMN ENCLOSURES (INCLUDING ALL ASSOCIATED ELEMENTS)
- W7. REMOVE EXISTING HOLLOW METAL DOOR, FRAME, AND SIDELITES
- W8. REMOVE PORTION 2" INSULATED METAL PANEL, 7/8" HAT CHANNEL, AND BATT INSULATION OF EXISTING EXTERIOR WALL, METAL STUD, GYP BD, AND COPING AT SOFFIT TO REMAIN.

CEILING DEMOLITION KEYED NOTES

- C1. REMOVE EXISTING SUSPENDED CEILING SYSTEM COMPLETE, INCLUDING ALL ACCESSORIES, SUSPENSION WIRES, CLIPS, ETC. TO EXTENTS SHOWN (SAT TILES TO BE SALVAGED FOR POTENTIAL RE-USE)
- C2. EXISTING CEILING TO REMAIN. PROTECT THROUGHOUT CONSTRUCTION AND TIE INTO NEW CEILING SYSTEM AS REQUIRED.
- C3. REMOVE EXISTING STEEL STRUCTURE
- C4. REMOVE EXISTING EXTERIOR SOFFIT ASSEMBLY, INCLUDING ALL MTL STUD FRAMING, MTL STUD BRACING, AND LIGHTING
- C5. TILES TO BE REMOVED, SALVAGED, AND REPLACED AS REQUIRED FOR SPRAY APPLIED FIRE RESISTIVE MATERIAL AND MECHANICAL DUCTWORK. (REFER TO CODE PLAN AND MEP)
- C6. TILES TO BE REMOVED, SALVAGED, AND REPLACED AS REQUIRED FOR MECHANICAL DUCTWORK. (REFER TO MECHANICAL)
- C7. CEILING EDGE TRIM TO BE REMOVED AS REQUIRED FOR DEMO / NEW WORK.

MISCELLANEOUS DEMOLITION KEYED NOTES

- M1. REMOVE MECHANICAL AND PLUMBING SYSTEM (INCLUDING ALL ASSOCIATED PIPING, DUCT, UTILITIES, AND ACCESSORIES) COMPLETE.
- M2. EXISTING DOOR & FRAME TO REMAIN. PROTECT THROUGHOUT CONSTRUCTION.
- M3. EXISTING WINDOW SYSTEM TO REMAIN. PROTECT THROUGHOUT CONSTRUCTION.
- M4. EXISTING BRICK COLUMN WRAP TO REMAIN. PROTECT THROUGHOUT CONSTRUCTION.



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DKA PROJECT NO: 24-027

KEY PLAN:

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DEMOLITION PLANS

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SHEET TITLE:
DEMOLITION RCP

SHEET NUMBER:
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DEMO SYMBOLS LEGEND:

NOTE: REFER TO M.E.P.F.P. DRAWINGS FOR ADDITIONAL INFORMATION ON MECHANICAL, ELECTRICAL, AND FIRE PROTECTION SYSTEMS

- HATCH INDICATES AREA NOT IN SCOPE
- GYPSUM BOARD OR PLASTER PARTITION TO BE REMOVED
- CMU PARTITION TO BE REMOVED
- FRAME AND DOOR TO BE REMOVED, SALVAGE HARDWARE TO OWNER
- SUSPENDED ACOUSTICAL TILE CEILING TO BE REMOVED
- SUSPENDED ACOUSTICAL TILE CEILING TO REMAIN
- GYPSUM BOARD OR PLASTER CEILING TO BE REMOVED
- GYPSUM BOARD OR PLASTER CEILING TO REMAIN
- RECESSED 2x4 LAY-IN LIGHT FIXTURE TO BE REMOVED
- RECESSED 2x2 LAY-IN LIGHT FIXTURE TO BE REMOVED
- RECESSED 2x4 LAY-IN LIGHT FIXTURE TO REMAIN
- RECESSED 2x2 LAY-IN LIGHT FIXTURE TO REMAIN
- LINEAR LIGHT FIXTURE TO BE REMOVED
- REMOVE CEILING MOUNTED PROJECTOR - SALVAGE TO OWNER
- RETURN AIR GRILLE TO BE REMOVED
- SUPPLY AIR GRILLE TO BE REMOVED
- RETURN AIR GRILLE TO REMAIN
- SUPPLY AIR GRILLE TO REMAIN

DEMO GENERAL NOTES:

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- CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DEMOLITION AS REQUIRED TO INSTALL ALL NEW WORK. REPAIR, PATCH AND FINISH EXISTING FLOORS, WALLS AND CEILINGS DESIGNATED TO REMAIN TO MATCH EXISTING CONDITIONS.
- REMOVE ALL HANGERS, SUSPENSION SYSTEMS, SUPPORT FRAMING, EQUIPMENT PADS, ANCHORS, ATTACHMENT HARDWARE AND RELATED APPURTENANCES CONNECTED WITH THE WORK TO BE DEMOLISHED. IF COMPLETE REMOVAL IS NOT POSSIBLE, CUT DEVICES AS CLOSE AS POSSIBLE TO ADJOINING SURFACES OR ORIGIN OF SUPPORT.
- DURING THE BIDDING PERIOD, EACH BIDDING CONTRACTOR SHALL VISIT THE SITE AND THE FACILITY TO DETERMINE EXISTING CONDITIONS. CONTRACTOR'S FAILURE TO REASONABLY DETERMINE AND/OR ANTICIPATE THE EFFECT OF EXISTING CONDITIONS AND THE WORK INVOLVED THEREBY SHALL NOT BE JUSTIFICATION FOR ADDITIONAL COMPENSATION. NOTIFY ARCHITECT OF ANY DISCREPANCIES.
- ALL MATERIALS, EQUIPMENT, FIXTURES, SYSTEMS, AND ACCESSORIES WHICH ARE TO REMAIN IN SERVICE SHALL BE CLEANED, REPAIRED, ADJUSTED AND PLACED INTO PROPER OPERATIONS IN ALL MODES WITH THE ORIGINAL SYSTEM.
- WHEN TEMPORARY SHORING AND BRACING IS REQUIRED, CONTRACTOR SHALL RETAIN AND PAY FOR THE SERVICES OF A PROFESSIONAL ENGINEER, LICENSED TO PRACTICE IN THE STATE WHERE THE PROJECT IS LOCATED, TO DESIGN AND PREPARE DETAILED DRAWINGS.
- CONTRACTOR SHALL COORDINATE SCHEDULE OF DEMOLITION WORK WITH THE OVERALL PHASING PLAN. ALL AREAS SURROUNDING EACH PHASE OF DEMOLITION/CONSTRUCTION WILL BE OCCUPIED BY THE OWNER DURING THE OWNER'S NORMAL BUSINESS HOURS. DEMOLITION WORK SHALL NOT ENCUMBER THE USE OF EXISTING ADJACENT SPACES.
- EACH CONTRACTOR SHALL FOLLOW THE PROGRESS OF THE GENERAL DEMOLITION AND REMODELING WORK TO ASSURE THE ACCESSIBILITY AND SAFETY OF EQUIPMENT AND SYSTEMS IN SERVICE IN ORDER TO PROVIDE FOR THE TIMELY REMOVAL AND/OR RELOCATION OF EQUIPMENT, PIPING, ETC.
- REMOVE ALL ABANDONED CONDUIT BOXES, CONDUCTORS, TELEPHONE LINES, ELECTRIC PANELS, AND ANY OTHER MISCELLANEOUS EQUIPMENT NOT REQUIRED FOR THE NEW FACILITY.
- REMOVE ALL RECESSED FLOOR BOXES, WALKER DUCTS, FLOOR SINKS, HUB DRAINS, ELECTRICAL RECEPTACLES, ETC. AND FILL VOIDS AS REQUIRED.
- REMOVE ALL DOOR STOPS AT ASSOCIATED DOORS TO BE DEMOLISHED.
- NO TOXIC SUBSTANCES HAVE BEEN NOTED ON THE SITE. SHOULD THE CONTRACTOR ENCOUNTER ANY PROCESTOS, ASBESTOS PRODUCTS, PEST OR OTHER TOXIC SUBSTANCES, THE CONTRACTOR SHOULD REPORT THIS IMMEDIATELY TO THE OWNER IN WRITING PRIOR TO CONTINUING WORK IN THIS AREA. WORK SHALL NOT BE RESUMED EXCEPT BY WRITTEN AUTHORIZATION OR AGREEMENT.
- ALL CONSTRUCTION DEBRIS AND EXCESS MATERIAL IS TO BE REMOVED BY THE CONTRACTOR AT THE END OF EACH WORK DAY. THE JOB SITE IS TO BE LEFT SUFFICIENTLY CLEAN AS TO WARRANT OWNER'S APPROVAL.
- REMOVE ALL CEILING SYSTEMS IN THEIR ENTIRETY, INCLUDING TILE, GRID, SUSPENSION WIRING, ANCHORS AND ALL ASSOCIATED APPURTENANCES.
- PATCH EXISTING PARTITION TO MATCH ADJACENT SURFACES AT REMOVAL OF EXISTING ELECTRICAL DEVICES - REFER TO ELECTRICAL DRAWINGS.

DEMO REFERENCED NOTES:

FLOOR DEMOLITION KEYED NOTES

- F1. REMOVE PORTION OF EXISTING FLOOR FINISH
- F2. EXISTING FLOOR FINISH TO REMAIN
- F3. REMOVE PORTION OF EXISTING SLAB ON GRADE. SEE STRUCT.
- F4. PORTION OF EXISTING SLAB ON GRADE TO REMAIN. SEE STRUCT.
- F5. SEE CIVIL FOR EXTENT AND SCOPE OF SITE DEMOLITION.

WALL DEMOLITION KEYED NOTES

- W1. CAREFULLY REMOVE EXISTING FACE BRICK AND SET ASIDE AND STORE FOR FUTURE REINSTALLATION. REMOVE EXISTING BRICK WALL COLUMN ENCLOSURES AND ALL ASSOCIATED HARDWARE. STEEL COLUMNS TO REMAIN AND PROTECT THROUGHOUT CONSTRUCTION.
- W2. REMOVE GYP / MTL STUD PARTITION TO EXTENTS INDICATED. RELOCATE ANY PIPING OR WIRING FEEDING ANY EXISTING TO REMAIN DEVICES OR FIXTURES. PATCH AND PREP ADJACENT WALLS TO REMAIN FOR NEW WORK.
- W3. REMOVE EXISTING STOREFRONT SYSTEM
- W4. REMOVE OVERHANG, PATCH BRICK WALL AS NEEDED
- W5. REMOVE EXISTING RIBBED WALL BASE
- W6. REMOVE EXISTING COLUMN ENCLOSURES (INCLUDING ALL ASSOCIATED ELEMENTS)
- W7. REMOVE EXISTING HOLLOW METAL DOOR, FRAME, AND SIDELITES
- W8. REMOVE PORTION 2" INSULATED METAL PANEL, 7/8" HAT CHANNEL, AND BATT INSULATION OF EXISTING EXTERIOR WALL, METAL STUD, GYP BD, AND COPING AT SOFFIT TO REMAIN.

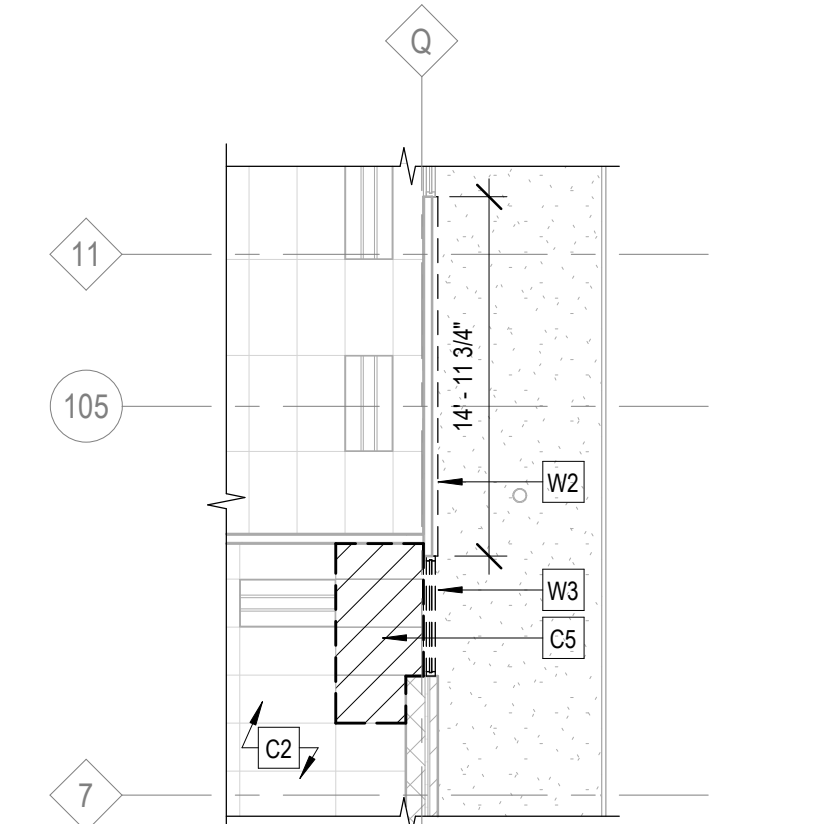
CEILING DEMOLITION KEYED NOTES

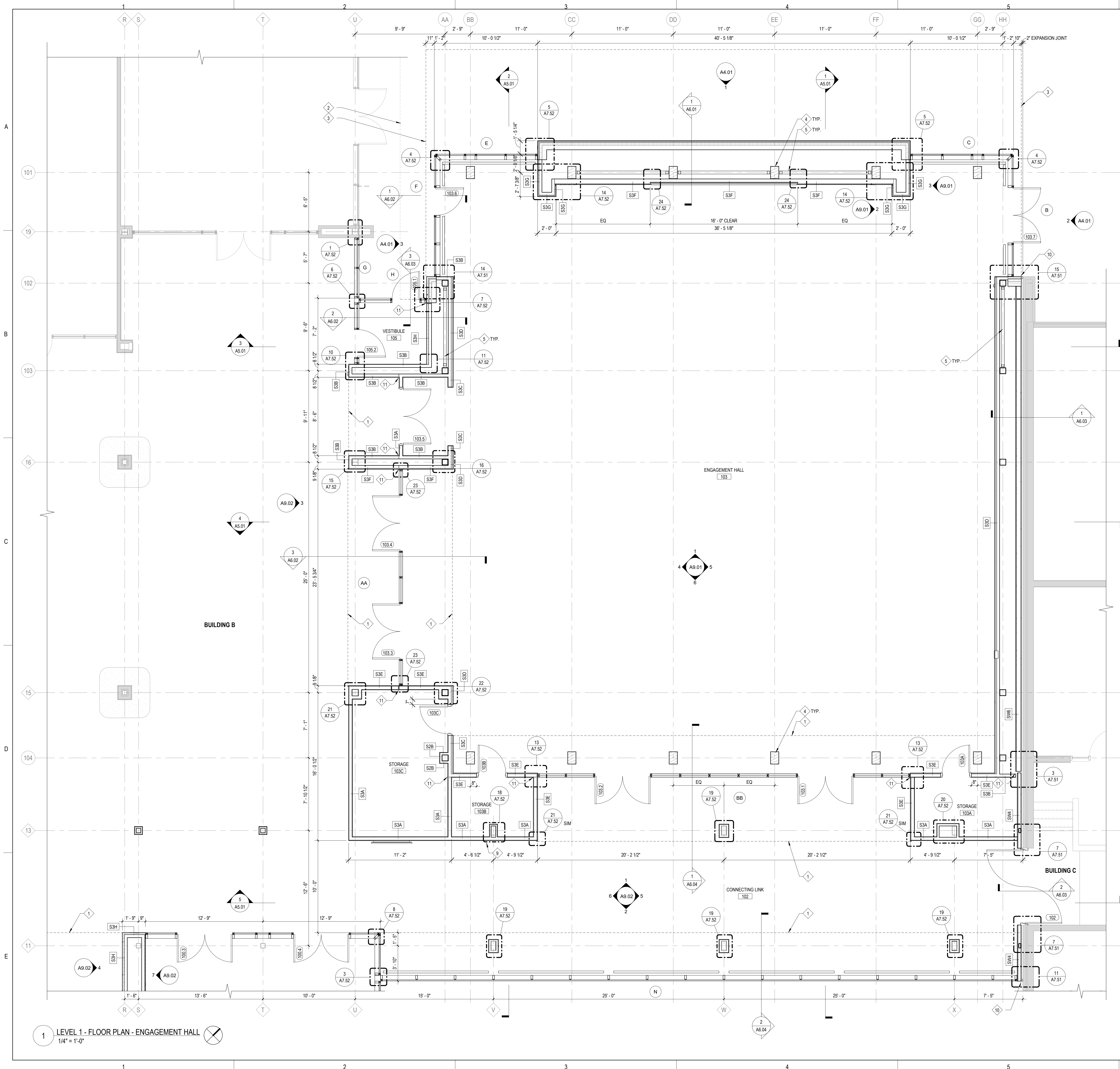
- C1. REMOVE EXISTING SUSPENDED CEILING SYSTEM COMPLETE, INCLUDING ALL ACCESSORIES, SUSPENSION WIRES, CLIPS, ETC. TO EXTENTS SHOWN (SAT TILES TO BE SALVAGED FOR POTENTIAL RE-USE)
- C2. EXISTING CEILING TO REMAIN. PROTECT THROUGHOUT CONSTRUCTION AND TIE INTO NEW CEILING SYSTEM AS REQUIRED
- C3. REMOVE EXISTING STEEL STRUCTURE
- C4. REMOVE EXISTING EXTERIOR SOFFIT ASSEMBLY, INCLUDING ALL MTL STUD FRAMING, MTL STUD BRACING, AND LIGHTING
- C5. TILES TO BE REMOVED, SALVAGED, AND REPLACED AS REQUIRED FOR SPRAY APPLIED FIRE RESISTIVE MATERIAL AND MECHANICAL DUCTWORK. (REFER TO CODE PLAN AND MEP)
- C6. TILES TO BE REMOVED, SALVAGED, AND REPLACED AS REQUIRED FOR MECHANICAL DUCTWORK. (REFER TO MECHANICAL)
- C7. CEILING EDGE TRIM TO BE REMOVED AS REQUIRED FOR DEMO / NEW WORK.

MISCELLANEOUS DEMOLITION KEYED NOTES

- M1. REMOVE MECHANICAL AND PLUMBING SYSTEM (INCLUDING ALL ASSOCIATED PIPING, DUCT, UTILITIES, AND ACCESSORIES) COMPLETE
- M2. EXISTING DOOR & FRAME TO REMAIN. PROTECT THROUGHOUT CONSTRUCTION.
- M3. EXISTING WINDOW SYSTEM TO REMAIN. PROTECT THROUGHOUT CONSTRUCTION.
- M4. EXISTING BRICK COLUMN WRAP TO REMAIN. PROTECT THROUGHOUT CONSTRUCTION.

1 DEMO REFLECTED CEILING PLAN
1/8" = 1'-0"





FLOOR PLAN & SECTION SYMBOLS LEGEND:

NOTE: REFER TO M.E.P.F.P. DRAWINGS FOR ADDITIONAL INFORMATION ON MECHANICAL, ELECTRICAL, AND FIRE PROTECTION SYSTEMS

GREYLINE LINES DEPICT EXISTING CONSTRUCTION

EXISTING DOOR

NEW WALL CONSTRUCTION

NEW DOOR

ROOM NAME
101

ROOM TAG

DOOR / FRAME TAG

WINDOW TAG

PARTITION TYPE

PARTITION MODIFIERS - REFER TO A10.01

PLAN AND SECTION DETAIL CALLOUT

SECTION CALLOUT

ELEVATION CALLOUT

DATUM TAG

DATUM ELEVATION

NEW WORK REFERENCED NOTES

FLOOR DRAIN - REFER TO PLUMBING

SURFACE-MOUNTED EXTINGUISHER CABINET

SEMI-RECESSED EXTINGUISHER CABINET

RECESSED EXTINGUISHER CABINET

LENGTH SPECIFIED MARKERBOARD

FLOOR PLAN GENERAL NOTES:

- ELEVATIONS SHOWN ON ARCHITECTURAL DRAWINGS ARE RELATIVE TO FIRST FLOOR FINISH ELEVATION OF 0'-0".
- DO NOT SCALE DRAWINGS.
- NOTIFY ARCHITECT OF ANY DISCREPANCIES IN THE DOCUMENTS PRIOR TO WORK COMMENCING.
- NOTES ON DRAWINGS SHALL APPLY TO ALL SIMILAR CONDITIONS WHETHER THEY ARE REPEATED OR NOT.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE VERIFICATION OF EXISTING CONDITIONS AND IN-FIELD DIMENSIONS PRIOR TO COMMENCING WORK.
- ALL INTERIOR DIMENSIONS ARE TO FACE OF FINISHED WALL UNLESS NOTED OTHERWISE.
- PROVIDE ACCESS PANELS AT LOCATIONS INDICATED AND AS REQUIRED FOR ACCESS TO EQUIPMENT AND DEVICES INCLUDING, BUT NOT LIMITED TO, MECHANICAL, PLUMBING AND ELECTRICAL WORK. PAINT ACCESS PANELS TO MATCH ADJACENT WALL OR CEILING FINISH.
- ALL FURNITURE SHOWN IS FOR GRAPHIC PURPOSES ONLY AND IS N.I.C. UNLESS NOTED OTHERWISE.

FLOOR PLAN REFERENCED NOTES:

- EXTENT OF SOFFIT ABOVE.
- EXTENT OF EXISTING SOFFIT ABOVE.
- EXTENT OF ROOF OVERHANG ABOVE.
- HEAVY TIMBER COLUMN. (REFER TO STRUCT. AND SPECS)
- STEEL CROSS BRACING. (REFER TO STRUCT.)
- STEEL COLUMN. (REFER TO STRUCT.)
- ROOF BELOW. (REFER TO ROOF PLAN)
- METAL COPING BELOW. (REFER TO ROOF PLAN)
- MONITOR, OFD. REFER TO ELEC FOR UTILITY REQUIREMENTS. REFER TO INTERIOR ELEVATIONS FOR INSTALLATION LOCATION.
- BUILDING EXPANSION JOINT. (REFER TO SPECS)
- WALL EXPANSION JOINT. (REFER TO SPECS)



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DKA PROJECT NO: 24-027

KEY PLAN:

SHEET STATUS: 05/16/2025
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SHEET TITLE:
FLOOR PLAN - EVENT CENTER

SHEET NUMBER:

A1.01



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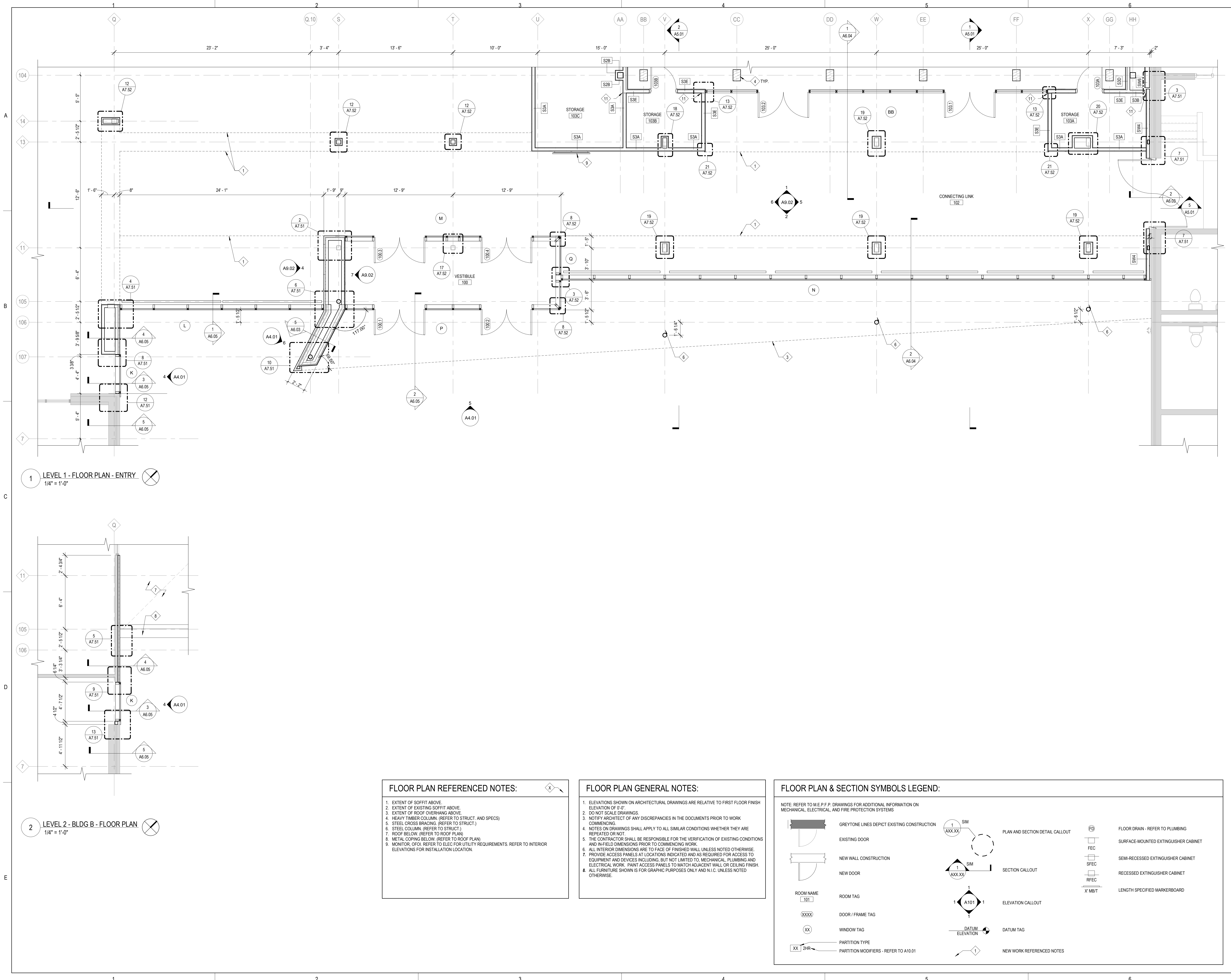
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SHEET TITLE:
FLOOR PLAN - ENTRY

SHEET NUMBER:

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1 LEVEL 1 - FLOOR PLAN - ENTRY
1/4" = 1'-0"

2 LEVEL 2 - BLDG B - FLOOR PLAN
1/4" = 1'-0"

FLOOR PLAN REFERENCED NOTES:

1. EXTENT OF SOFFIT ABOVE.
2. EXTENT OF EXISTING SOFFIT ABOVE.
3. EXTENT OF ROOF OVERHANG ABOVE.
4. HEAVY TIMBER COLUMN. (REFER TO STRUCT. AND SPECS)
5. STEEL CROSS BRACING. (REFER TO STRUCT.)
6. STEEL COLUMN. (REFER TO STRUCT.)
7. ROOF BELOW. (REFER TO ROOF PLAN)
8. METAL COPING BELOW. (REFER TO ROOF PLAN)
9. MONITOR. (FOR REFER TO ELEC FOR UTILITY REQUIREMENTS. REFER TO INTERIOR ELEVATIONS FOR INSTALLATION LOCATION)

FLOOR PLAN GENERAL NOTES:

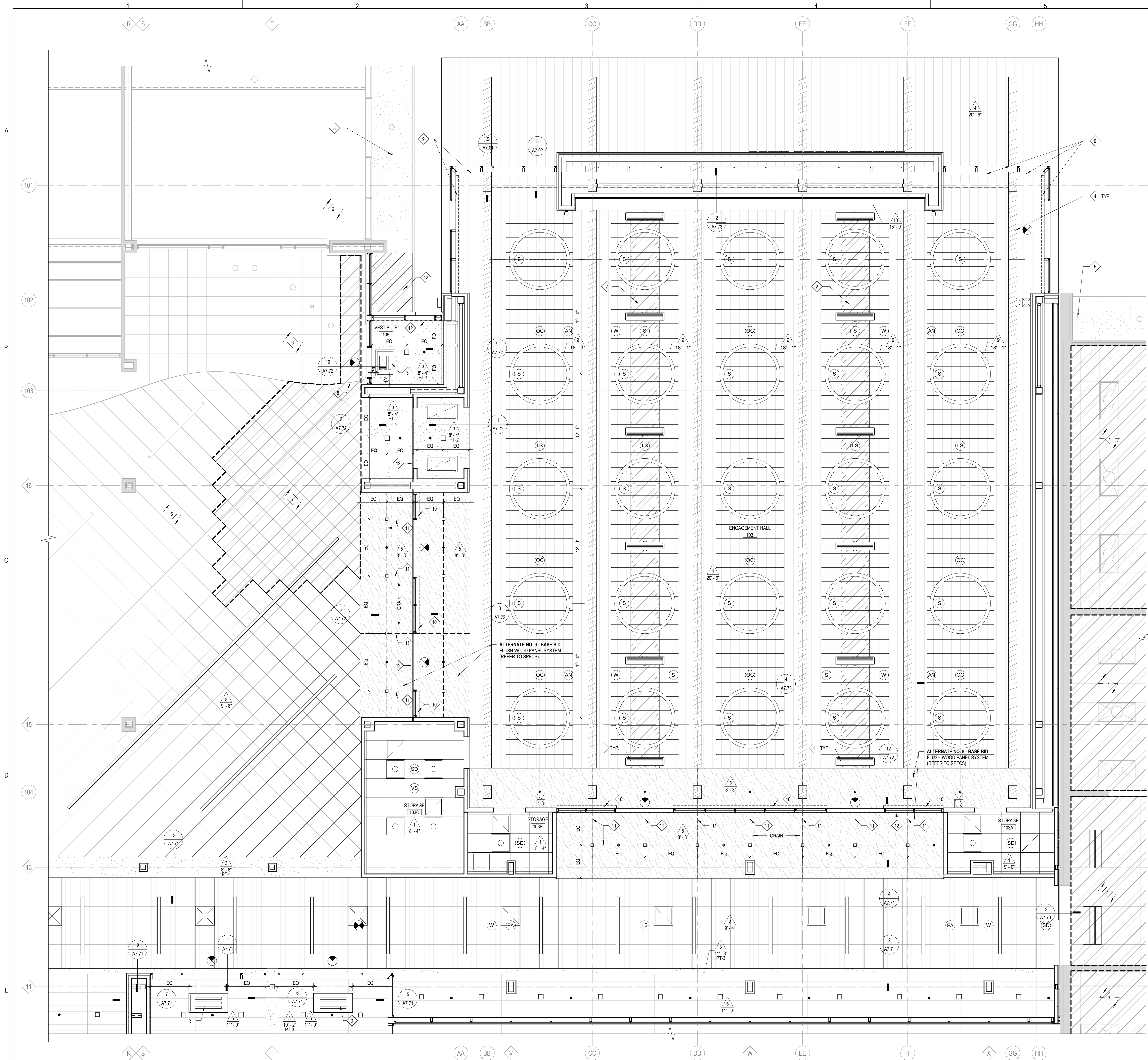
1. ELEVATIONS SHOWN ON ARCHITECTURAL DRAWINGS ARE RELATIVE TO FIRST FLOOR FINISH ELEVATION OF 0'-0".
2. DO NOT SCALE DRAWINGS.
3. NOTIFY ARCHITECT OF ANY DISCREPANCIES IN THE DOCUMENTS PRIOR TO WORK COMMENCING.
4. NOTES ON DRAWINGS SHALL APPLY TO ALL SIMILAR CONDITIONS WHETHER THEY ARE REPEATED OR NOT.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE VERIFICATION OF EXISTING CONDITIONS AND IN-FIELD DIMENSIONS PRIOR TO COMMENCING WORK.
6. ALL INTERIOR DIMENSIONS ARE TO FACE OF FINISHED WALL UNLESS NOTED OTHERWISE.
7. PROVIDE ACCESS PANELS AT LOCATIONS INDICATED AND AS REQUIRED FOR ACCESS TO EQUIPMENT AND DEVICES INCLUDING, BUT NOT LIMITED TO, MECHANICAL, PLUMBING AND ELECTRICAL WORK. PAINT ACCESS PANELS TO MATCH ADJACENT WALL OR CEILING FINISH.
8. ALL FURNITURE SHOWN IS FOR GRAPHIC PURPOSES ONLY AND N.I.C. UNLESS NOTED OTHERWISE.

FLOOR PLAN & SECTION SYMBOLS LEGEND:

NOTE: REFER TO M.E.P.F.P. DRAWINGS FOR ADDITIONAL INFORMATION ON MECHANICAL, ELECTRICAL, AND FIRE PROTECTION SYSTEMS

- | | | | | | |
|--|---|--|---------------------------------|--|--------------------------------------|
| | GREYTOPE LINES DEPICT EXISTING CONSTRUCTION | | PLAN AND SECTION DETAIL CALLOUT | | FLOOR DRAIN - REFER TO PLUMBING |
| | EXISTING DOOR | | SECTION CALLOUT | | SURFACE-MOUNTED EXTINGUISHER CABINET |
| | NEW WALL CONSTRUCTION | | ELEVATION CALLOUT | | RECESSED EXTINGUISHER CABINET |
| | NEW DOOR | | | | LENGTH SPECIFIED MARKERBOARD |
| | ROOM NAME | | | | |
| | ROOM TAG | | | | |
| | DOOR / FRAME TAG | | | | |
| | WINDOW TAG | | | | |
| | PARTITION TYPE | | | | |
| | PARTITION MODIFIERS - REFER TO A10.01 | | | | |

- | | | | |
|--|---------------------------------|--|--------------------------------------|
| | PLAN AND SECTION DETAIL CALLOUT | | FLOOR DRAIN - REFER TO PLUMBING |
| | SECTION CALLOUT | | SURFACE-MOUNTED EXTINGUISHER CABINET |
| | ELEVATION CALLOUT | | RECESSED EXTINGUISHER CABINET |
| | DATUM TAG | | LENGTH SPECIFIED MARKERBOARD |
| | NEW WORK REFERENCED NOTES | | |



1 REFLECTED CEILING PLAN - EVENT SPACE
1/4" = 1'-0"

RCP SYMBOLS LEGEND:

NOTE: REFER TO M.E.P.F.P. DRAWINGS FOR ADDITIONAL INFORMATION ON MECHANICAL, ELECTRICAL, AND FIRE PROTECTION SYSTEMS

- CEILING TYPE
- CEILING ELEVATION AFF
- SUSPENDED ACOUSTICAL TILE CEILING
- GYPSUM BOARD CEILING OR SOFFIT
- LINEAR WOOD SLAT CEILING SYSTEM
- WOOD PANEL CEILING
- ROLLER SHADE, ELECTRIC (TYP.)
- RECESSED 2x4' LIGHT FIXTURE
- RECESSED 2x2' FIXTURE
- RECESSED LINEAR FIXTURE
- LARGE PENDANT LIGHT MOUNT FIXTURE
- RECESSED DOWN LIGHT
- PENDANT LIGHT MOUNT LINEAR FIXTURE
- SPRINKLER HEAD
- MOTORIZED SCREEN
- CEILING MOUNTED PROJECTOR
- SOLID HATCH DENOTES EXIT SIGN FACE PLATE
- DIRECTION OF EGRESS
- EXIT SIGN, WALL MOUNTED
- HEAT DETECTOR
- SMOKE DETECTOR
- FIRE ALARM DEVICE
- MICROPHONE ANTENNA
- SPEAKER
- CLOSED CIRCUIT CAMERA
- OCCUPANCY / VANCANCY SENSOR
- WIRELESS ACCESS POINT
- LIGHT SENSOR
- RETURN AIR GRILLE
- SUPPLY AIR GRILLE
- LINEAR DIFFUSER - SUPPLY/RETURN
- ACCESS PANEL
- CABINET UNIT HEATER

RCP GENERAL NOTES:

- ALL HEATING, VENTILATION, ELECTRICAL, PLUMBING, AND FIRE PROTECTION ITEMS ARE SHOWN ON ARCHITECTURAL REFLECTED CEILING PLANS FOR REFERENCE AND COORDINATION ONLY. REFER TO HEATING, VENTILATION, ELECTRICAL, PLUMBING, AND FIRE PROTECTION DRAWINGS FOR ACTUAL QUANTITIES. IN CASE OF CONFLICT THE ARCHITECTURAL REFLECTED CEILING PLAN SHALL GOVERN LOCATION OF THESE ITEMS.
- IN AREAS THAT DO NOT HAVE ARCHITECTURAL REFLECTED CEILING PLANS YET REQUIRE NEW ITEMS TO BE INSTALLED IN OR ABOVE THE CEILING PLANE, CONTRACTOR SHALL REMOVE AND REINSTALL, REPLACE OR MODIFY EXISTING CEILING CONSTRUCTION TO ACCOMMODATE NEW WORK. ANY NEW CEILING AREAS SHALL MATCH EXISTING ADJACENT FINISHES.
- CENTER ALL FIXTURES IN CEILING TILES AND FIELD VERIFY GRID LAYOUT FOR PROPER FIXTURE LOCATION. ALIGN ALL FIXTURES IN BOTH DIRECTIONS OF CEILING TILE. (UNO)
- CENTER ALL SPRINKLER HEADS IN CEILING TILES.
- ALL GYP. BD. CEILINGS TO BE PAINTED PT-1 UNLESS OTHERWISE NOTED ON PLANS
- EXTEND FACE OF ALL GYP. BD. SOFFITS AND HEADERS 6" MIN. BEYOND FINISHED CEILING ABOVE U.N.O.

RCP REFERENCED NOTES:

- LINEAR DIFFUSER. (REFER TO MECH.)
- DUCT - PAINT PT 6. (REFER TO MECH.)
- RECESSED CABINET HEATER (REFER TO MECH.)
- EXPOSED HEAVY TIMBER BEAMS. (REFER TO STRUCT.)
- EXISTING EXTERIOR SOFFIT.
- EXISTING CEILING TO REMAIN.
- SALVAGED CEILING TILES AND ALL ASSOCIATED LIGHTING, DIFFUSERS, SPRINKLER HEADS, DEVICES, EQUIPMENT, ETC. TO BE REINSTALLED. SEE DEMO RCP FOR FULL EXTENT OF WORK. COORDINATE W/ MEFP.
- CEILING EDGE TRIM TO BE REPLACED / REINSTALLED AS REQUIRED.
- ROLLER SHADE, ELECTRIC. (REFER TO ELEC.) SEE GLAZING ELEVATIONS FOR CLERESTORY LOCATIONS.
- RECESSED ROLLER SHADE, ELECTRIC. (REFER TO ELEC.) ALTERNATE NO. 7 - BASE BID
- 1/8" OVERLAP JOINT BETWEEN FLUSH WOOD PANELS - TYP.
- 1" CEILING EXPANSION JOINT. (REFER TO SPEC.)
- REMOVE AND REPLACE EXISTING STUCCO SOFFIT STRUCTURE AS REQUIRED FOR NEW WORK.

CEILING TYPES:

TYPE	DESCRIPTION
0	EXPOSED STRUCTURE
1	2' x 2' ACOUSTICAL PANEL SYSTEM
2	2' x 4' ACOUSTICAL PANEL SYSTEM - SCORED TILES
3	PAINTED GYP BOARD ON METAL FRAMING
4	CROSS LAMINATED TIMBER, INTERIOR / EXTERIOR APPLICATIONS (REFER TO WALL SECTIONS)
5	FLUSH WOOD PANEL CEILING SYSTEM (WD-1)
6	WOOD PHENOLIC CEILING SYSTEM - INTERIOR
7	WOOD PHENOLIC CEILING - EXTERIOR
8	2' x 2' ACOUSTICAL PANEL SYSTEM - BLACK FINISH
9	SUSPENDED ACOUSTIC CEILING BAFFLES AT EXPOSED CLT DECKING
10	GLASS FIBER REINFORCED CONCRETE PANEL CEILING SYSTEM



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DKA PROJECT NO: 24-027

KEY PLAN:

SHEET STATUS: 05/16/2025

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NO.	DESCRIPTION:	DATE:

SHEET TITLE:

**REFLECTED CEILING
PLANS - EVENT
CENTER**

SHEET NUMBER:

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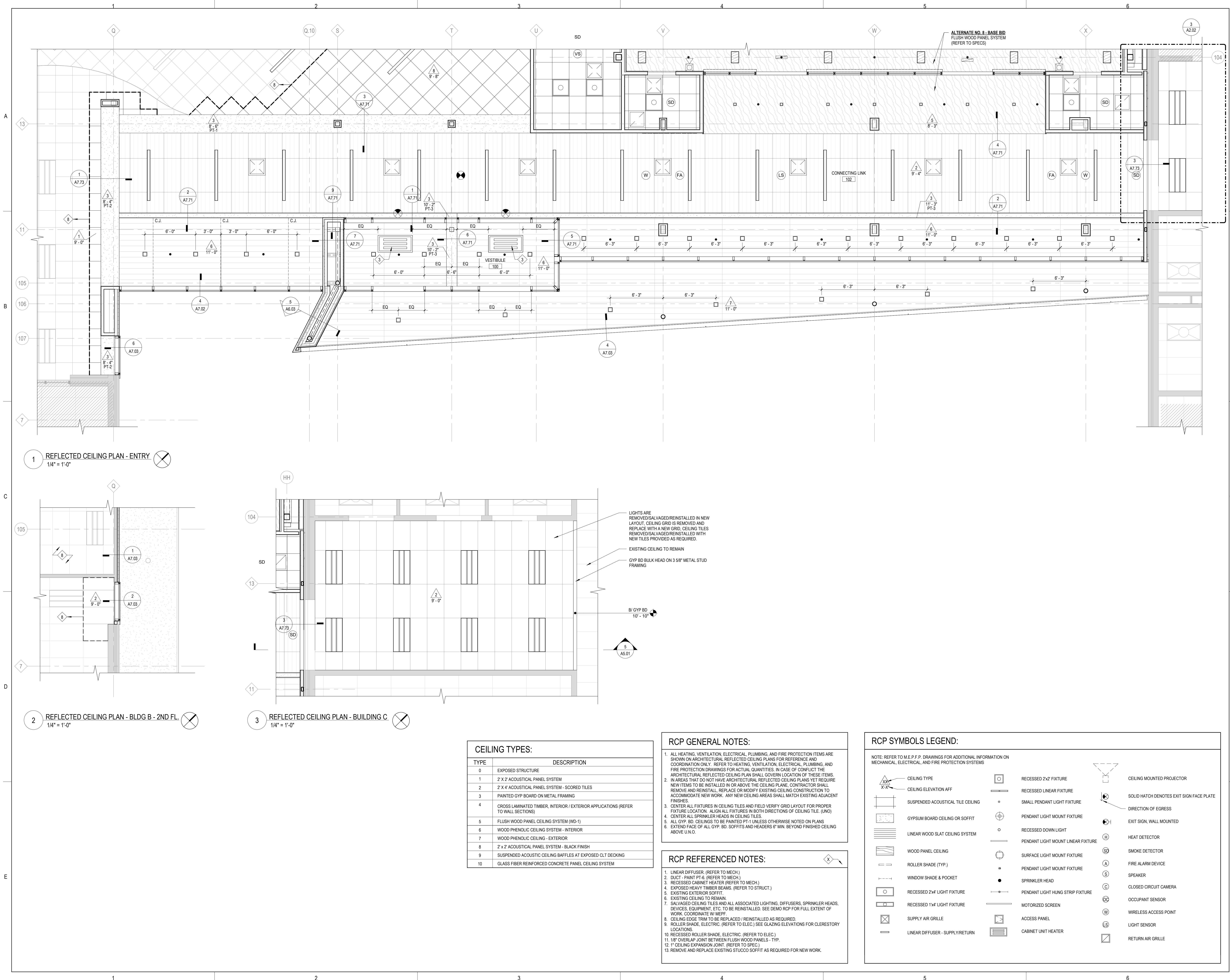
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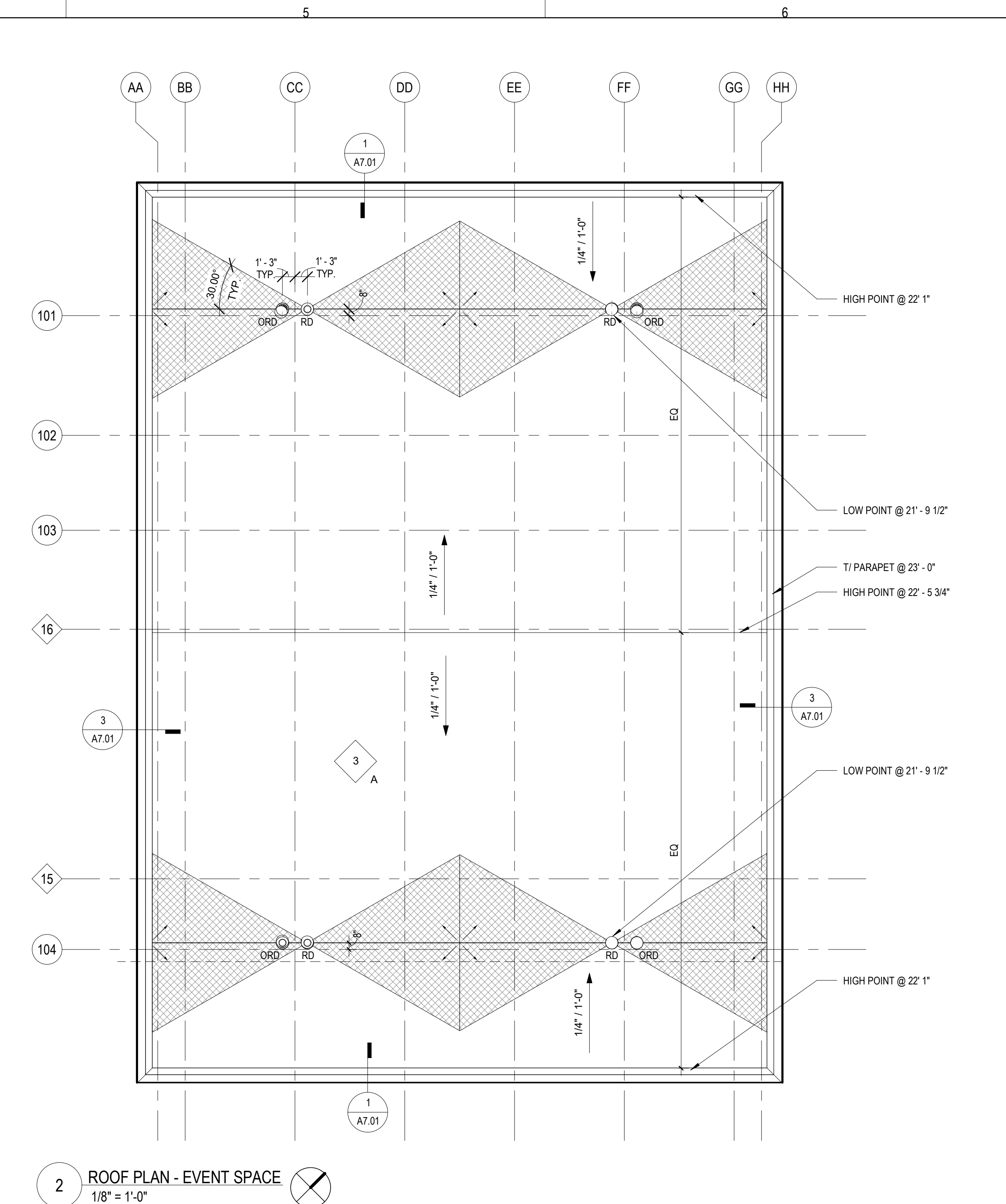
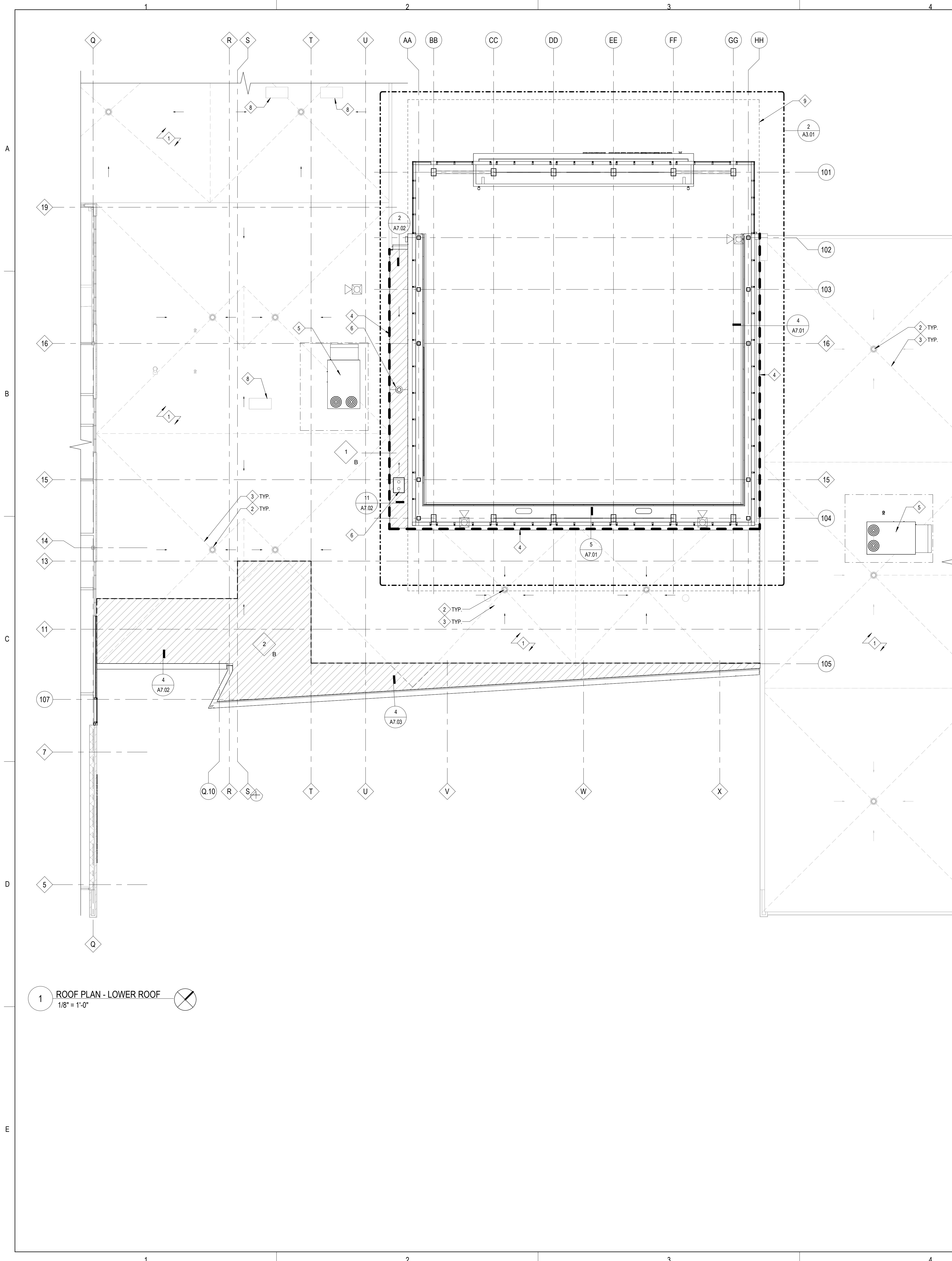
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REFLECTED CEILING
PLANS - ENTRY

SHEET NUMBER:

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ROOF PLAN LEGEND:	
NOTE: REFER TO M.E.P.P. DRAWINGS FOR ADDITIONAL INFORMATION ON MECHANICAL, ELECTRICAL, AND FIRE PROTECTION SYSTEMS	
	ROOF AREA BOUNDARY LINE
	ROOF AREA NUMBER
	ROOF AREA TYPE
	ROOF DRAIN
	OVERFLOW ROOF DRAIN
	PIPE PENETRATION
	ROOF DAVIT
	24" x 24" x 2" RUBBER ROOF PAVER
	EXHAUST FAN
	HOSE BIB IN WALL
	HOSE BIB PENETRATION THRU ROOF
	SPLASH PAD
	FLEXIBLE WALKWAY
	FLEXIBLE WALKWAY INDICATING EXTENTS OF 15' OSHA SAFETY DISTANCE FROM ROOF EDGE
	SLOPE DIRECTION
	AREA OF NEW BALLASTED ROOF TO MATCH EXISTING, SEE ROOF SYSTEM TYPES
	TAPERED INSULATION SADDLE WITH A SURFACE SLOPE OF 1/4" PER 1'-0" (1/2" PER FOOT PANEL SLOPE)
	CONDENSER UNIT
	GAS LINE

ROOF SYSTEM TYPES:	
ROOF TYPE A: FLAT ROOF DECK ON CROSS-LAMINATED TIMBER.	
1. VAPOR RETARDER.	
2. 6" BASE LAYER OF ROOF INSULATION.	
3. TOP LAYER OF TAPERED ROOF INSULATION (1/4" 1' SLOPE).	
4. TAPERED ROOF INSULATION TO FORM CRICKETS WITH 1/4" PER FOOT SURFACE SLOPE.	
5. 1/4" COVER BOARD.	
6. EPDM MEMBRANE.	
7. EPDM SHEET FLASHING.	
8. PREFINISHED METAL COPINGS, END WALL FLASHING, COUNTERFLASHING, ETC.	
ROOF TYPE B: FLAT BALLASTED ROOF ON STEEL DECKING	
1. VAPOR RETARDER.	
2. BASE LAYER OF ROOF INSULATION (MATCH THICKNESS OF EXISTING ADJACENT ROOFING INSULATION)	
3. TOP LAYER OF TAPERED ROOF INSULATION (1/4" 1' SLOPE).	
4. TAPERED ROOF INSULATION TO FORM CRICKETS WITH 1/4" PER FOOT SURFACE SLOPE.	
5. EPDM MEMBRANE.	
6. WASHED RIVER GRAVEL BALLAST TO MATCH EXISTING	
7. EPDM SHEET FLASHING.	
8. PREFINISHED METAL COPINGS, END WALL FLASHING, COUNTERFLASHING, ETC.	
ROOF PLAN GENERAL NOTES:	
1. SEE MEP DRAWINGS FOR PENETRATIONS AND EQUIPMENT CURB LOCATIONS.	
ROOF PLAN REFERENCED NOTES:	
1. EXISTING ROOF TO REMAIN.	
2. EXISTING ROOF DRAIN.	
3. EXISTING ROOF DRAIN SLOPE.	
4. EXPANSION JOINT.	
5. ROOFTOP MECHANICAL UNIT - REFER TO STRUCTURAL FOR REINFORCEMENT REQUIREMENTS AND MECHANICAL FOR EQUIPMENT INFORMATION AND UTILITY REQUIREMENTS.	
6. ROOF DRAIN. (REFER TO PLUMB.)	
7. ROOF OVERFLOW DRAIN. (REFER TO PLUMB.)	
8. EXISTING MAKE-UP AIR UNIT. (REFER TO MECH.)	
9. EXTENT OF ROOF OVERHANG ABOVE.	
10. ROOF PIPE PENETRATION ENCLOSURE. (REFER TO ELEC. / SPECS)	



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SHEET TITLE:
ROOF PLAN

SHEET NUMBER:
A3.01

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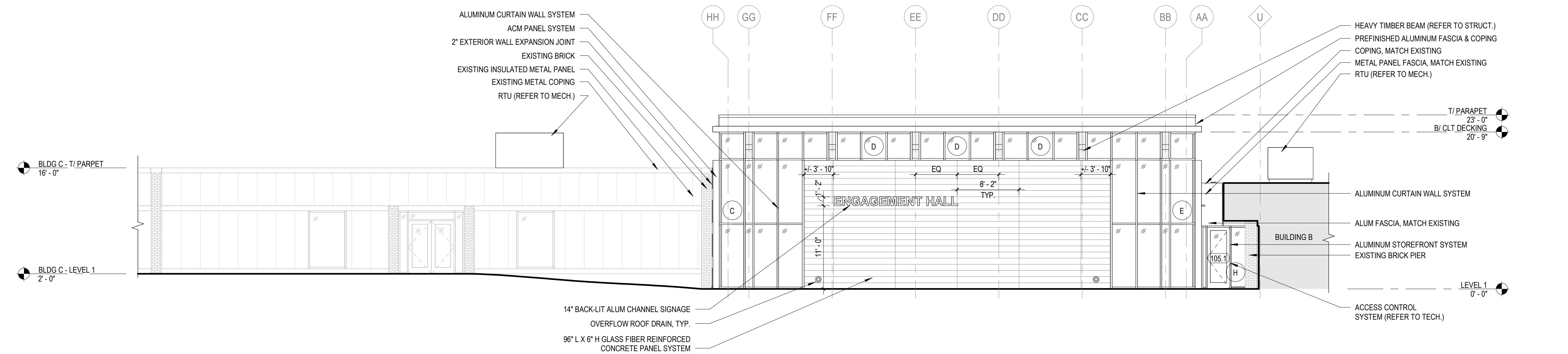
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**EXTERIOR
ELEVATIONS**

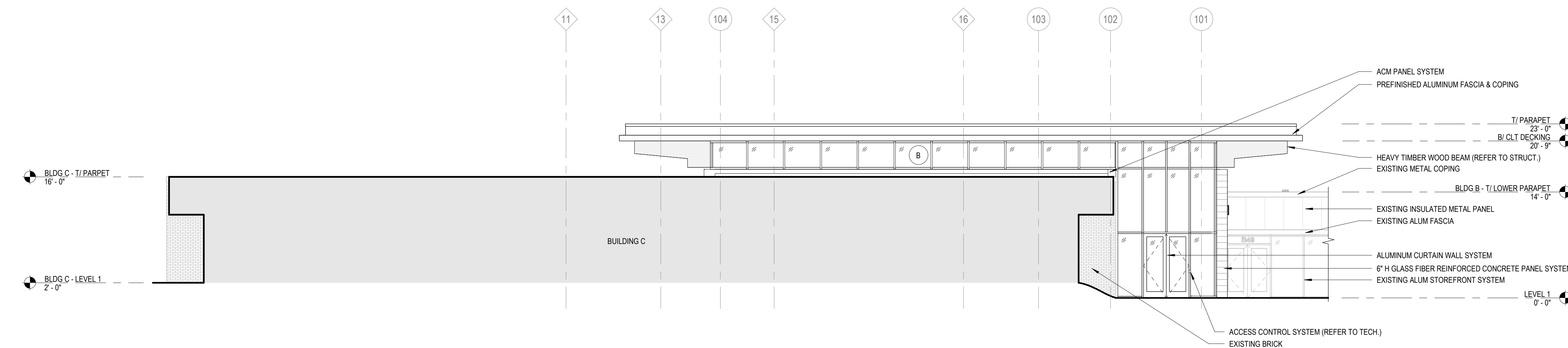
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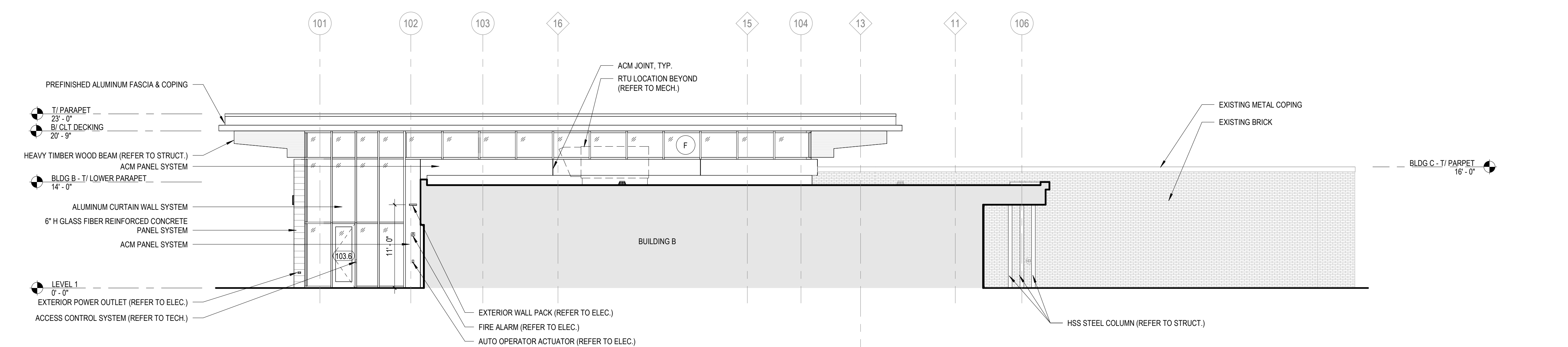
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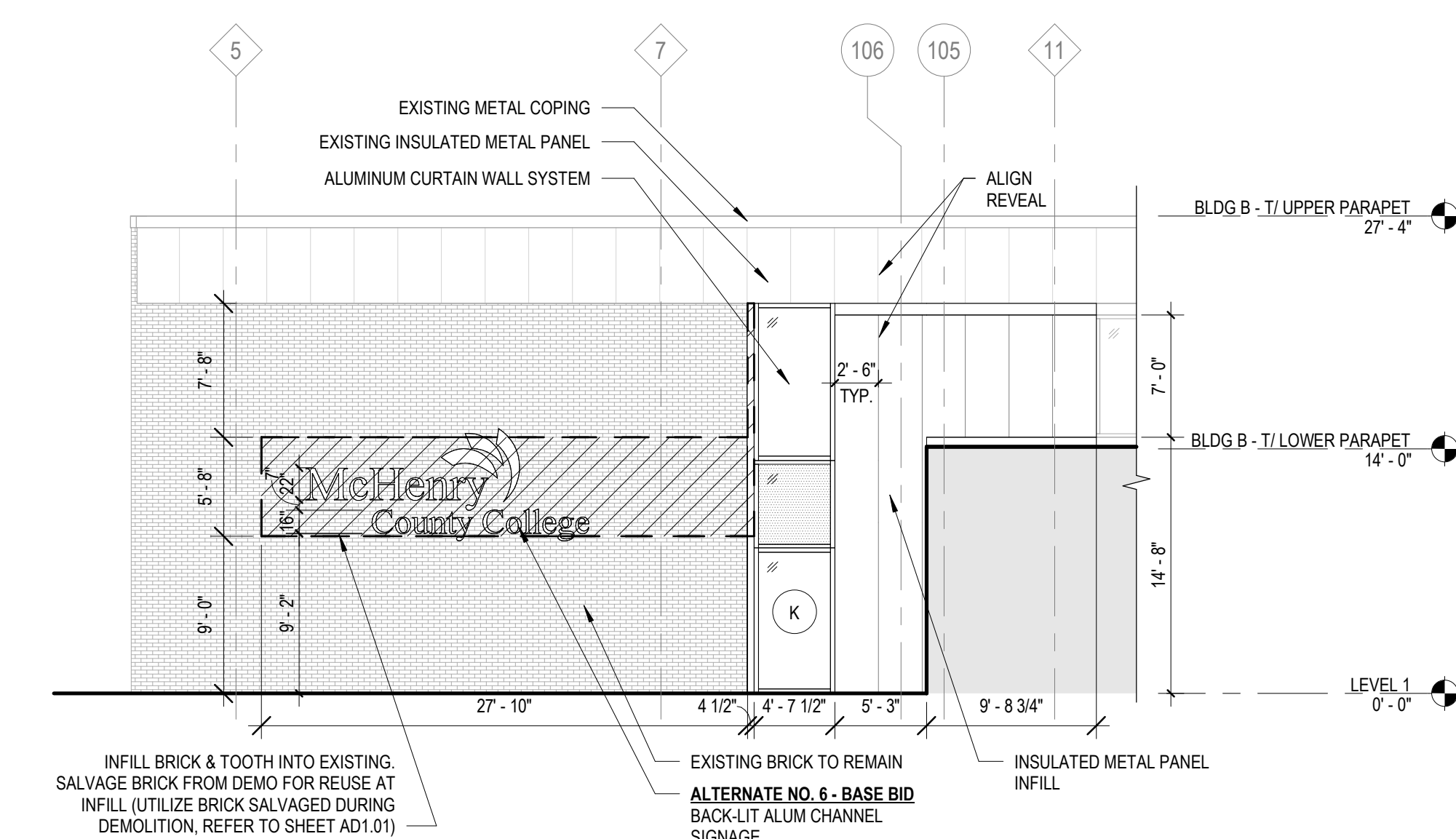
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1/8\"/>



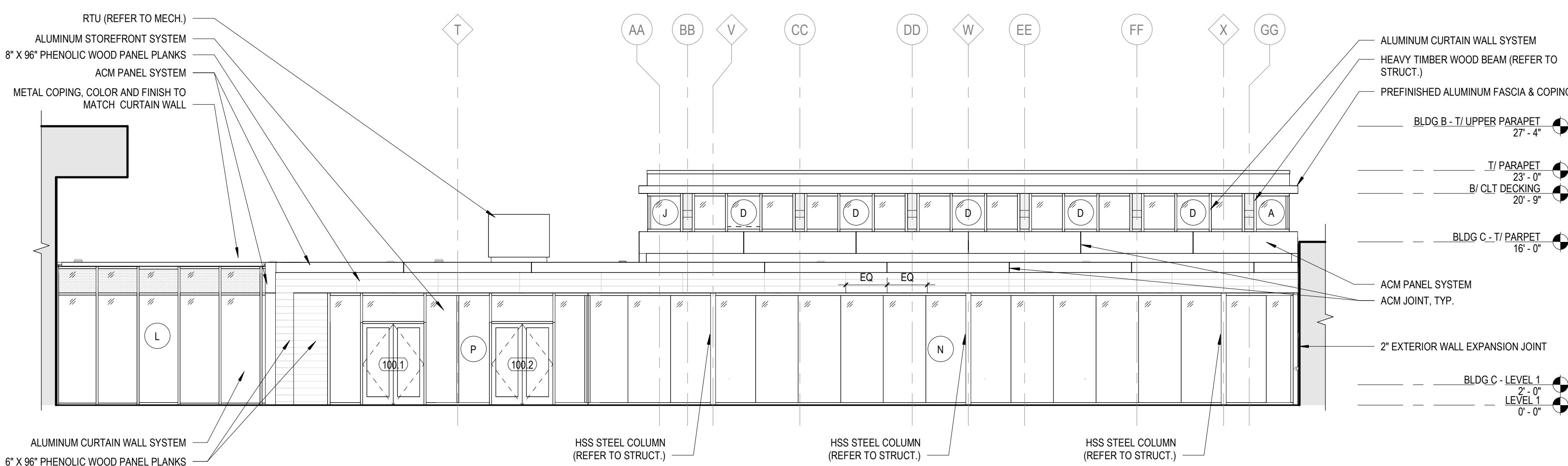
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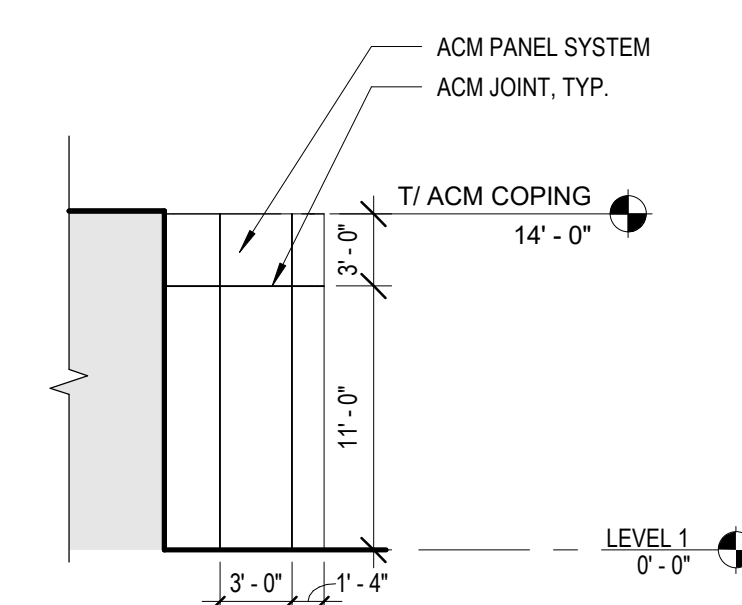
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1/8\"/>



4 EXTERIOR ELEVATION - BUILDING B - EAST
1/8\"/>



5 EXTERIOR ELEVATION - SOUTH
1/8\"/>



6 EXTERIOR ELEVATION - ENTRY - WEST
1/8\"/>



EVENT SPACE - NORTH VIEW



MAIN ENTRANCE - SOUTH VIEW



EVENT SPACE - NORTHEAST VIEW



MAIN ENTRANCE - SOUTHEAST VIEW



EVENT SPACE - NORTHWEST VIEW



MAIN ENTRANCE - SOUTHWEST VIEW



ARCHITECT OF RECORD
DEMONICA KEMPER ARCHITECTS
 125 N. HALSTED STREET, SUITE 301
 CHICAGO, IL 60661
 P: 312.496.0000

MEP-FP-T-ENGINEERS
IMEG CORP.
 263 SHUMAN BLVD, SUITE 550
 NAPERVILLE, IL 60563
 P: 630.527.2320

CIVIL-LANDSCAPE ENGINEER
HR GREEN
 1391 CORPORATE DRIVE, SUITE 203
 MCHENRY, IL 60050
 P: 815.385.1778

CONSTRUCTION MANAGER
PEPPER CONSTRUCTION
 411 LAKE ZURICH RD.
 BARRINGTON, IL 60010
 P: 847.381.2760

McHenry County College
ENGAGEMENT HALL
 8900 NORTHWEST HWY #14
 CRYSTAL LAKE, IL 60012
 DKA PROJECT NO: 24-027

KEY PLAN:

SHEET STATUS: 05/16/2025
ISSUED FOR BID - NOT FOR CONSTRUCTION

NO.	DESCRIPTION:	DATE:

SHEET TITLE:
EXTERIOR RENDERINGS

SHEET NUMBER:
A4.50



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DKA PROJECT NO: 24-027

KEY PLAN:

SHEET STATUS: 05/16/2025
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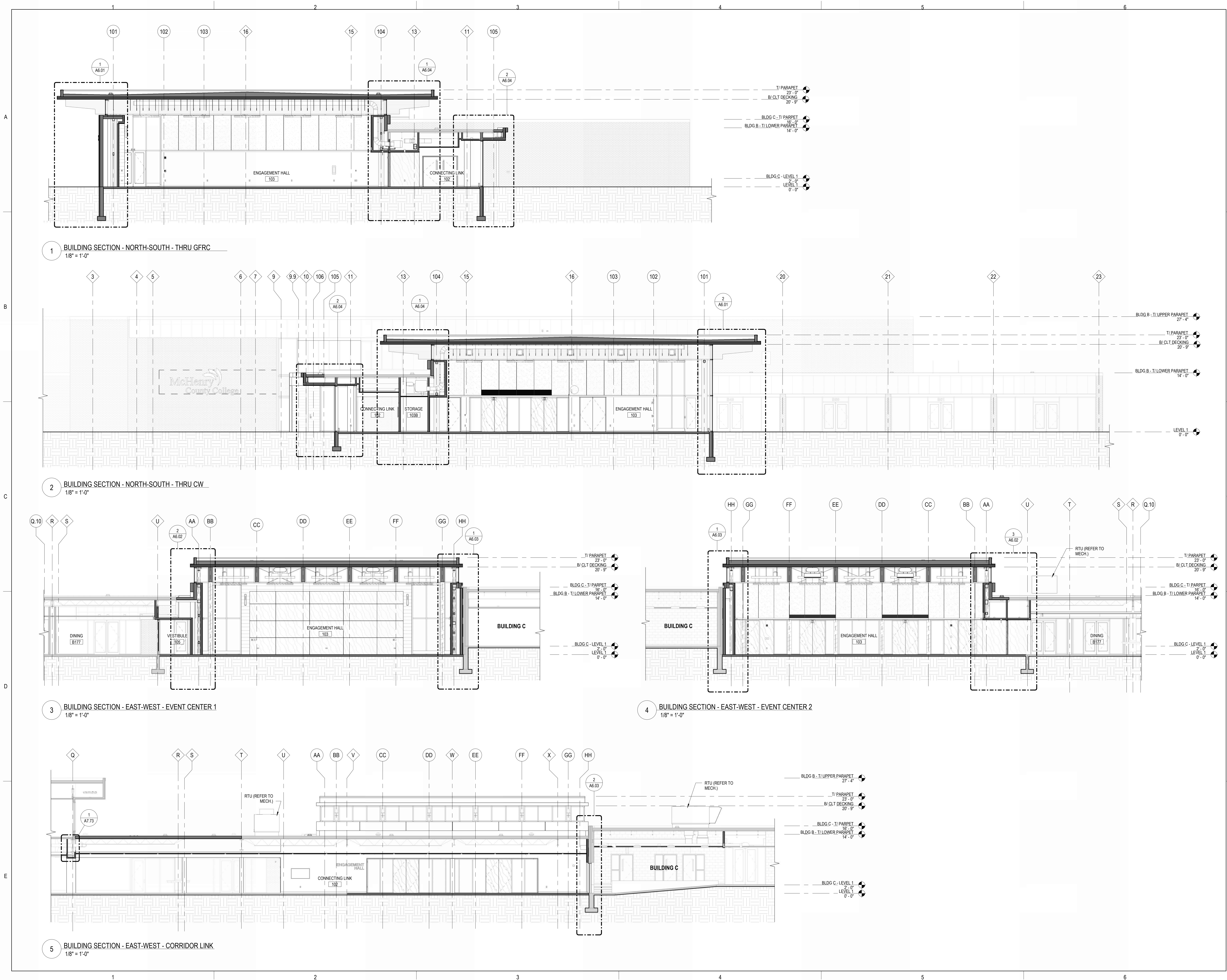
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BUILDING SECTIONS

SHEET NUMBER:

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ARCHITECT OF RECORD
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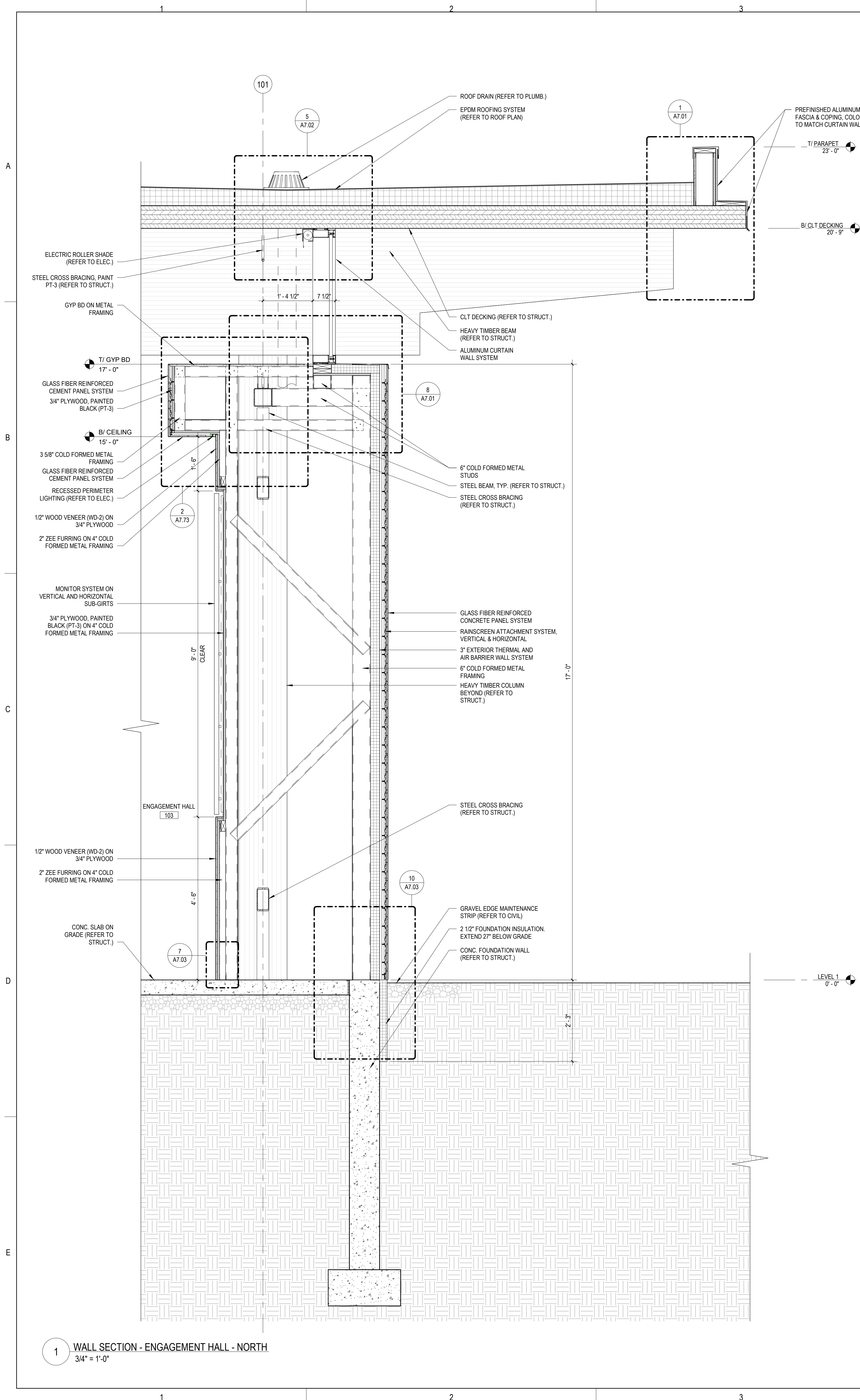
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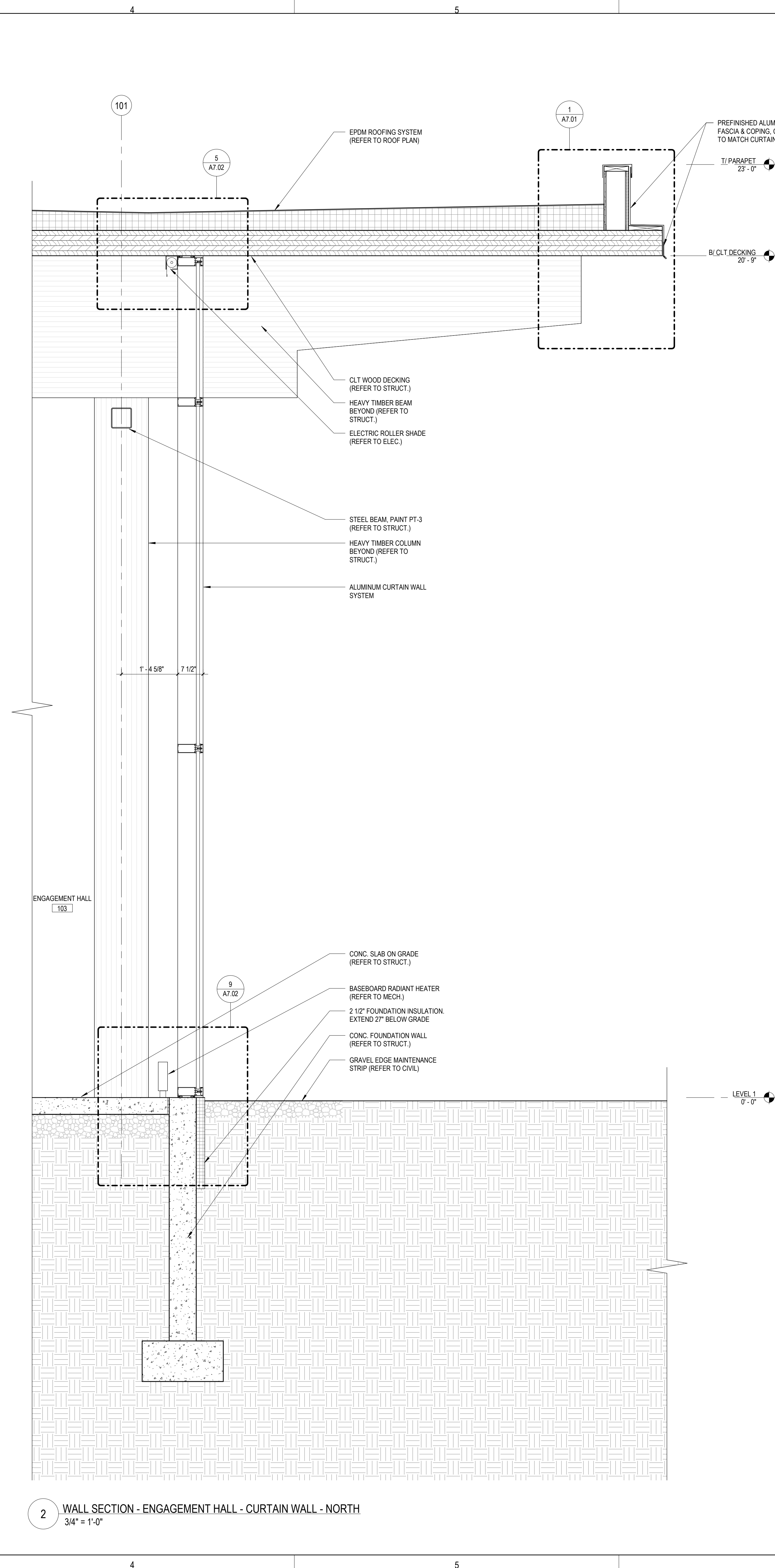
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A6.01

5/16/2025 2:53:32 PM



1 WALL SECTION - ENGAGEMENT HALL - NORTH
3/4" = 1'-0"



2 WALL SECTION - ENGAGEMENT HALL - CURTAIN WALL - NORTH
3/4" = 1'-0"



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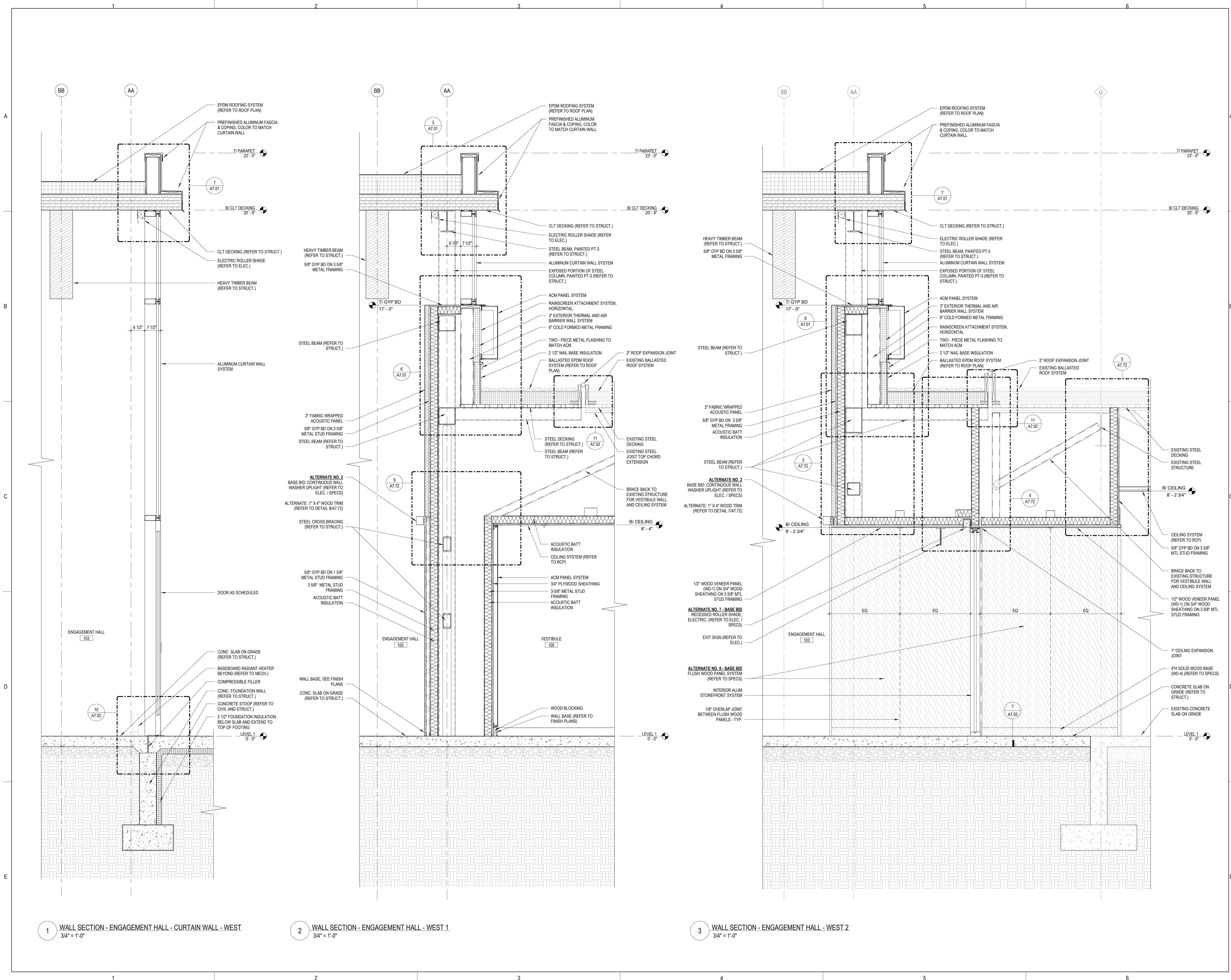
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WALL SECTIONS

SHEET NUMBER:

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KEY PLAN:

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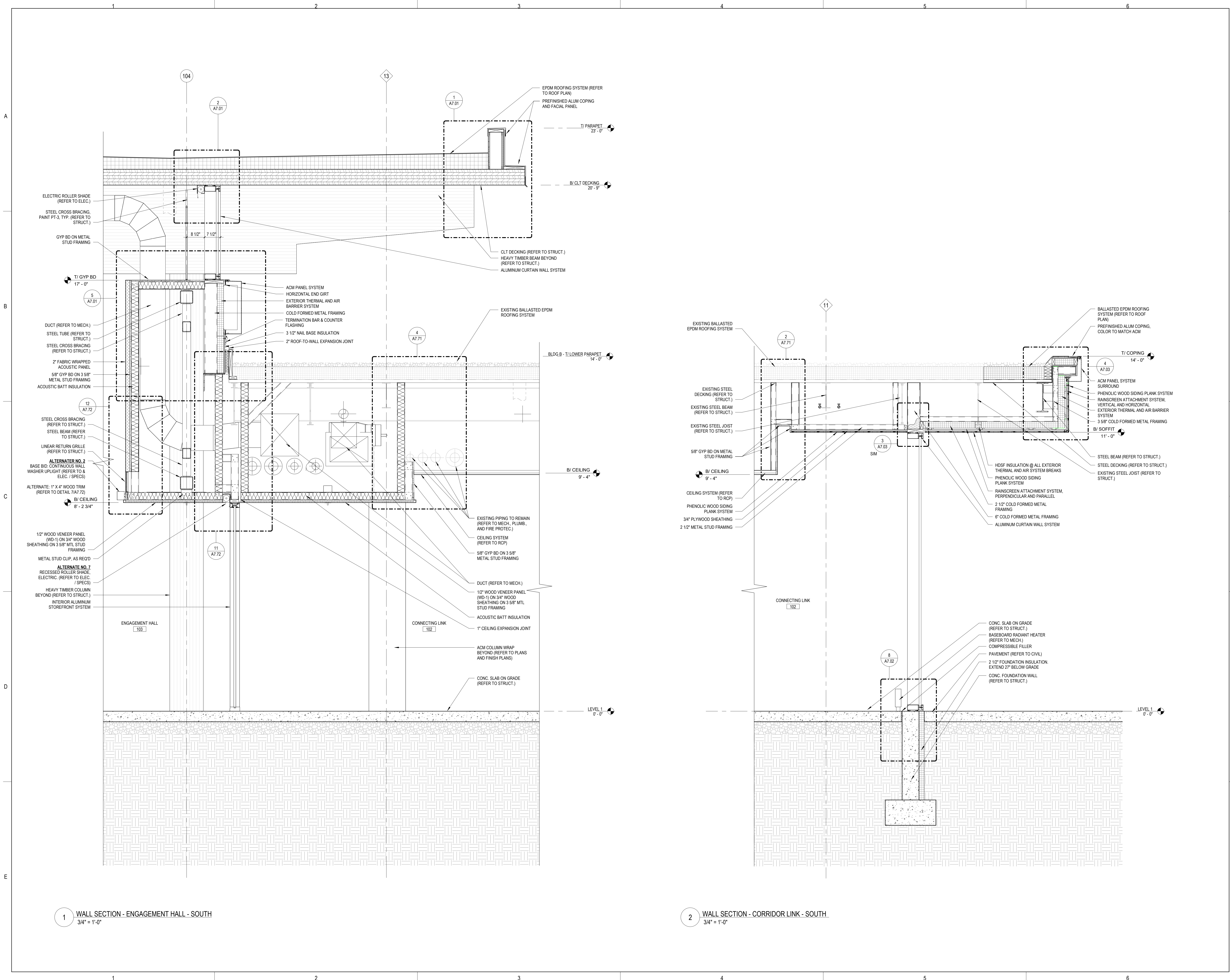
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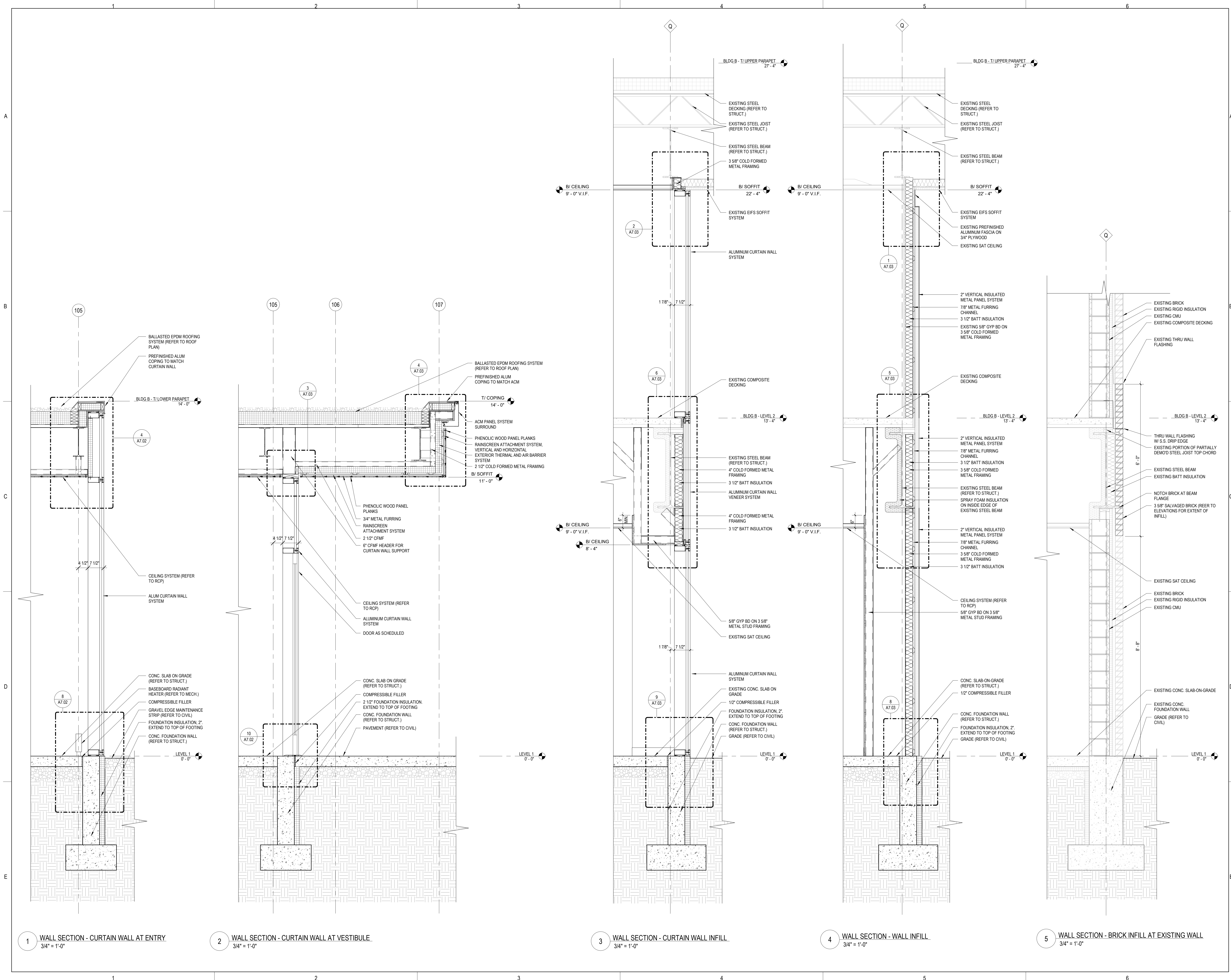
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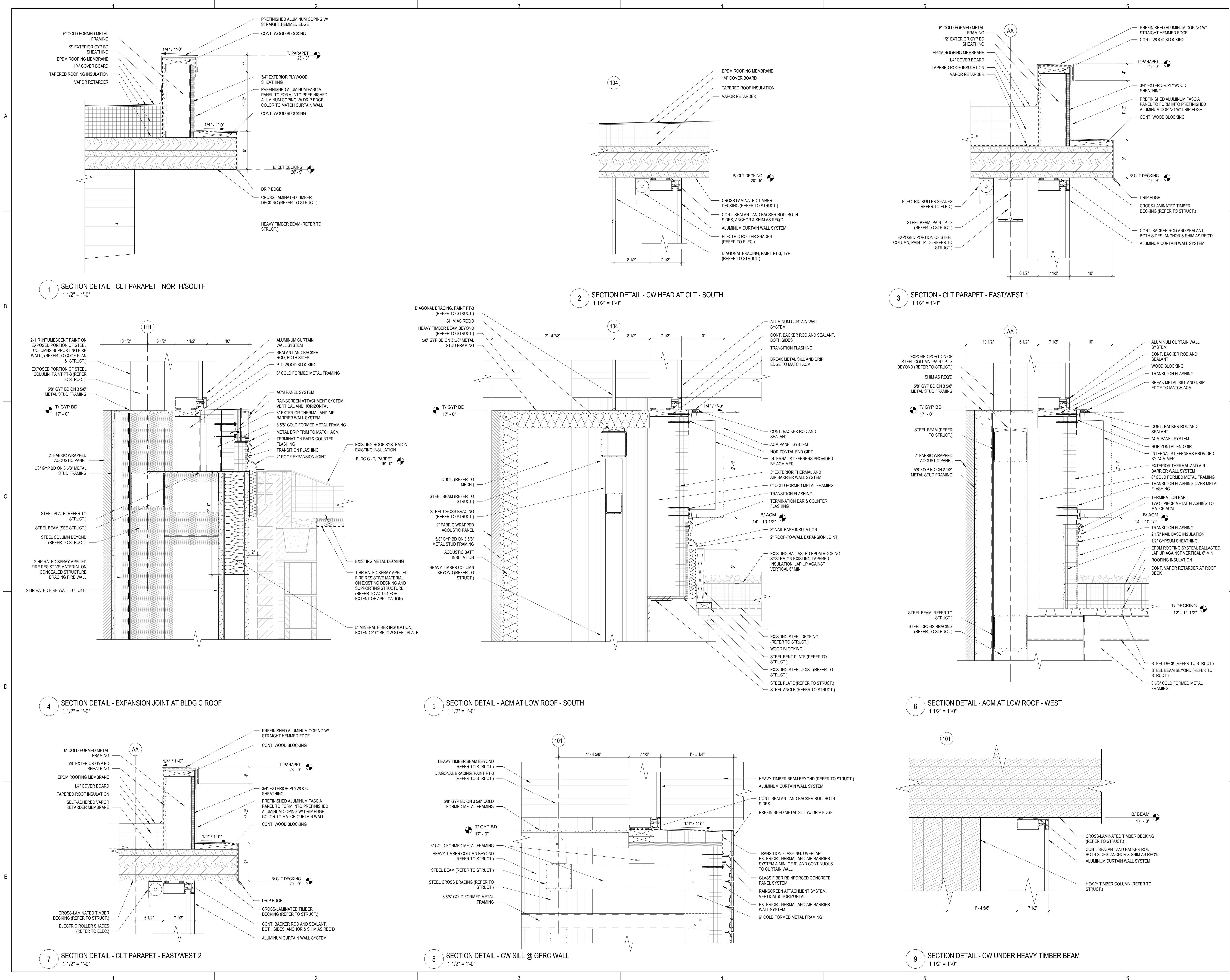
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SHEET STATUS: 05/16/2025
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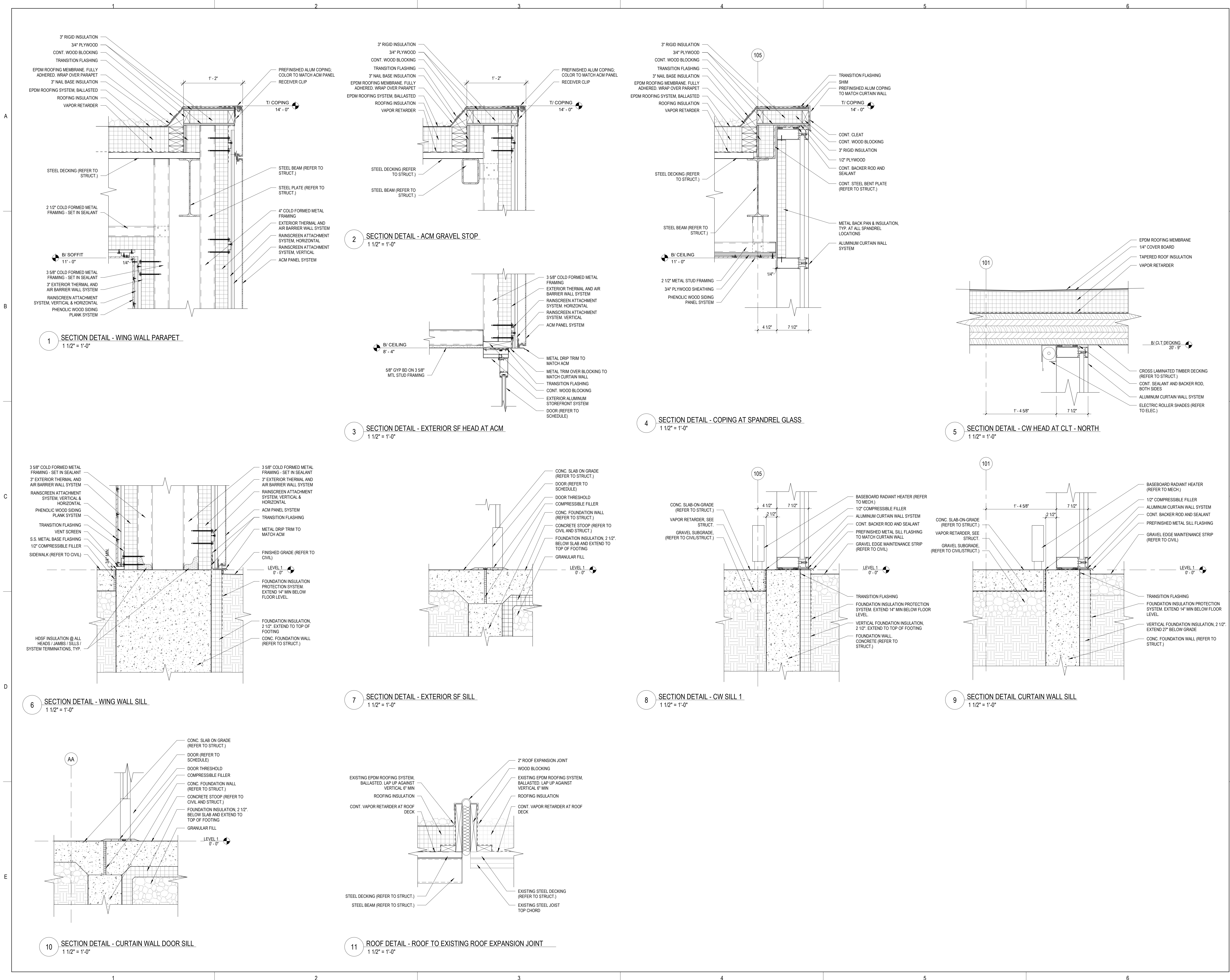
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SECTION DETAILS

SHEET NUMBER:

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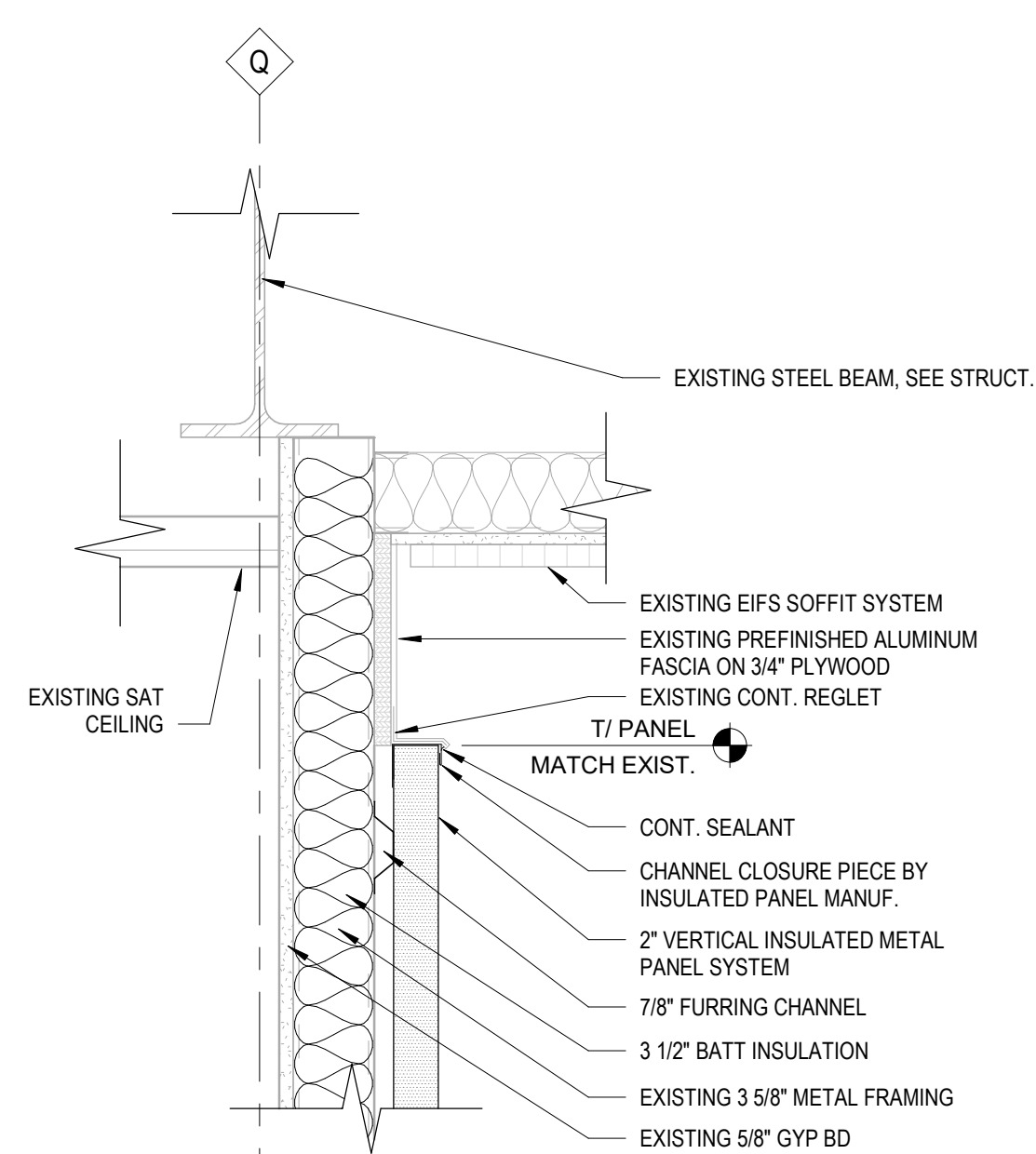
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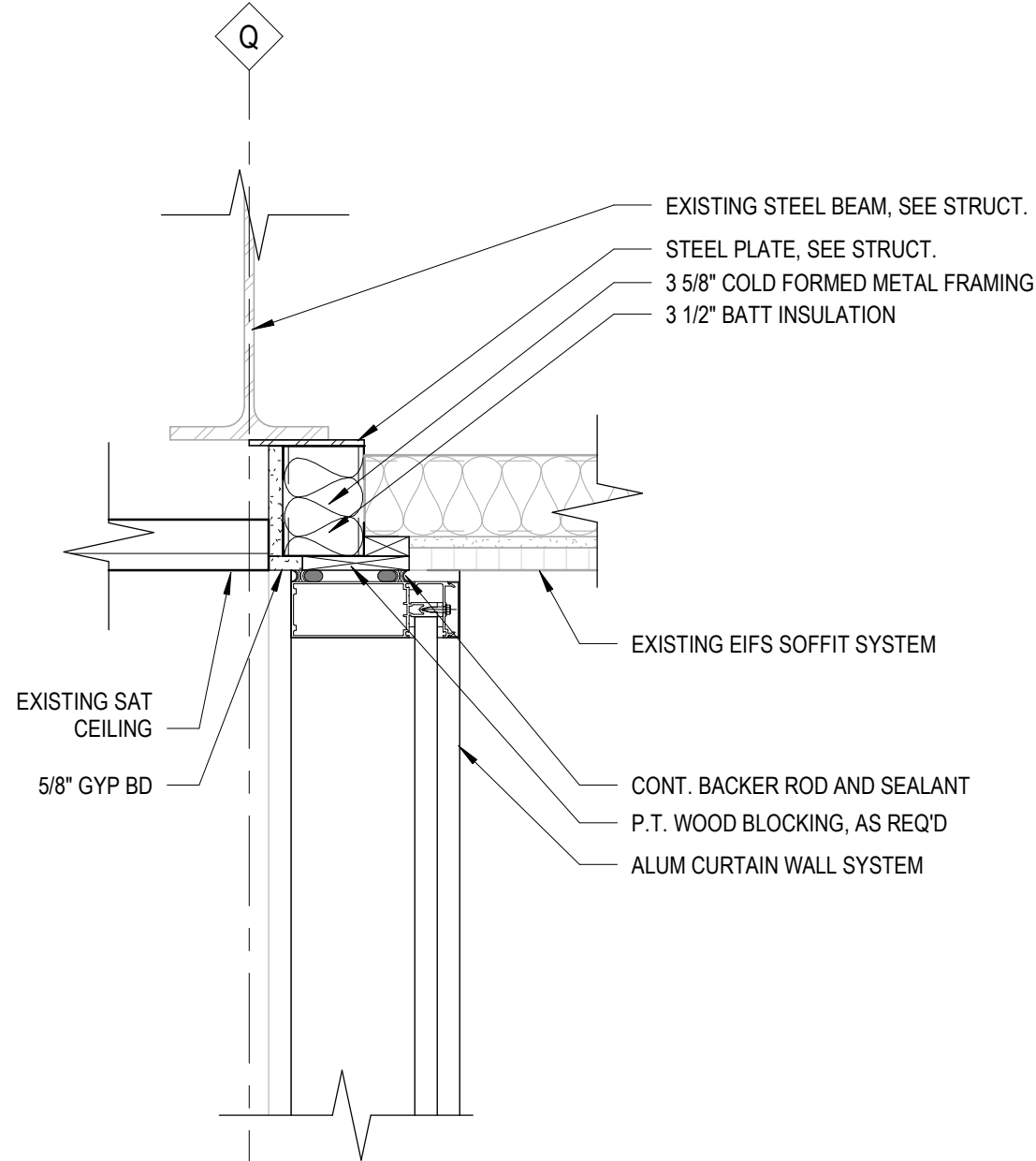
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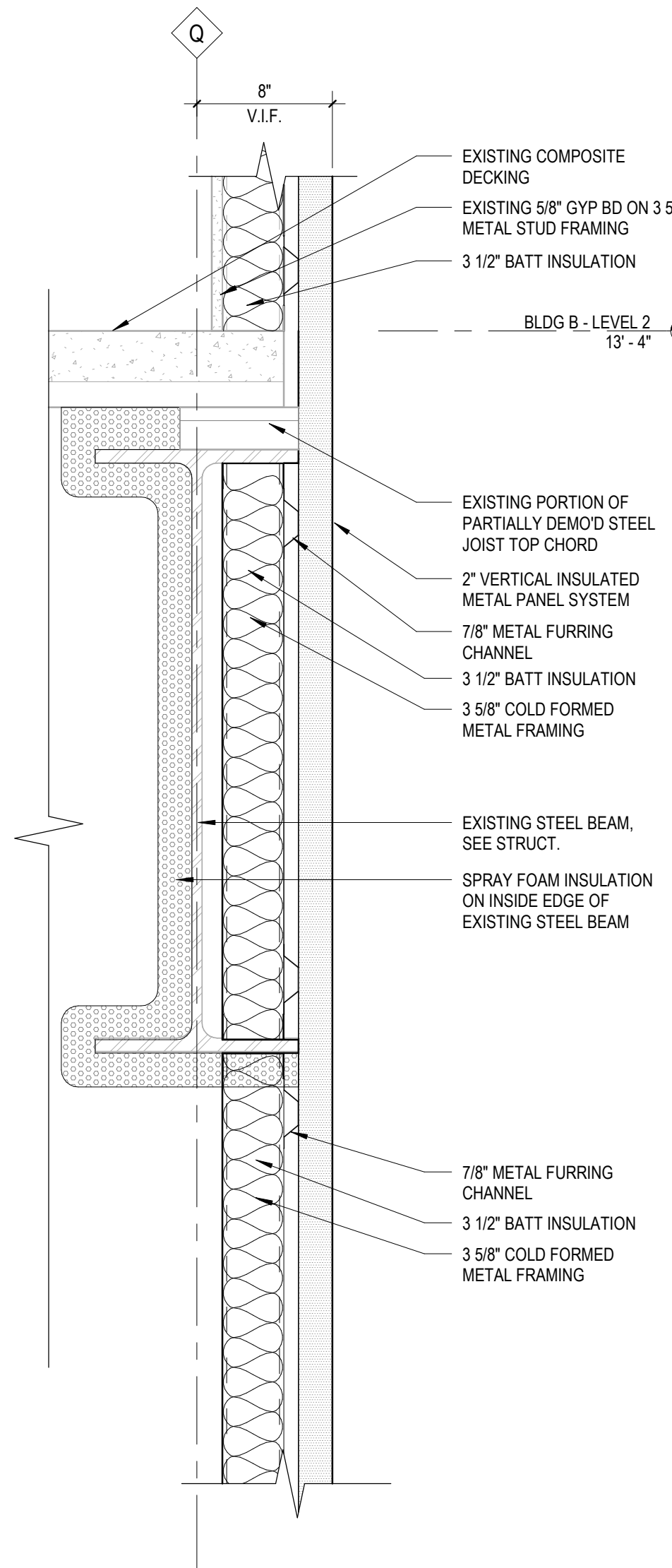
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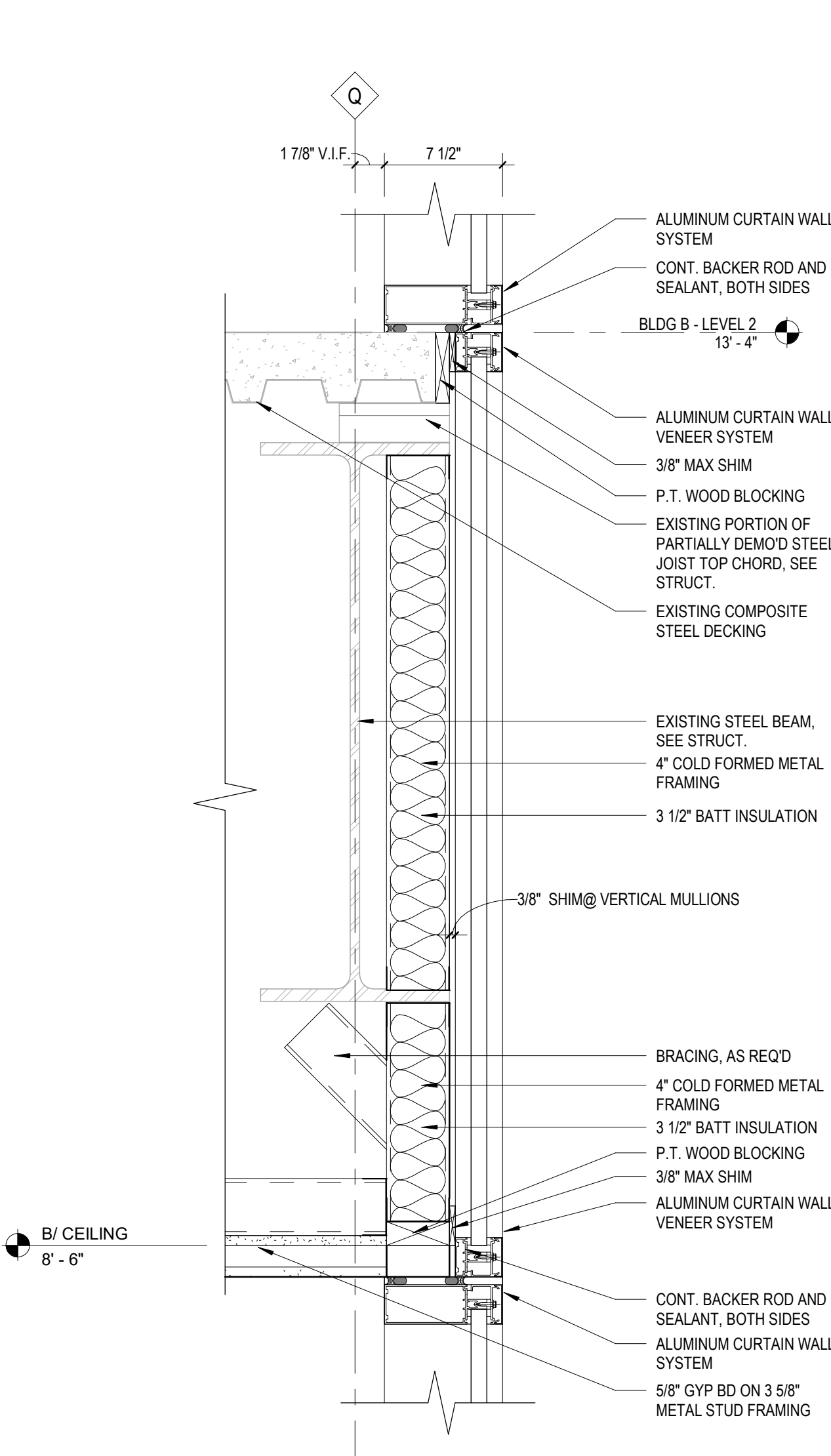
1 SECTION DETAIL - INSULATED METAL PANEL AT SOFFIT
1 1/2" = 1'-0"



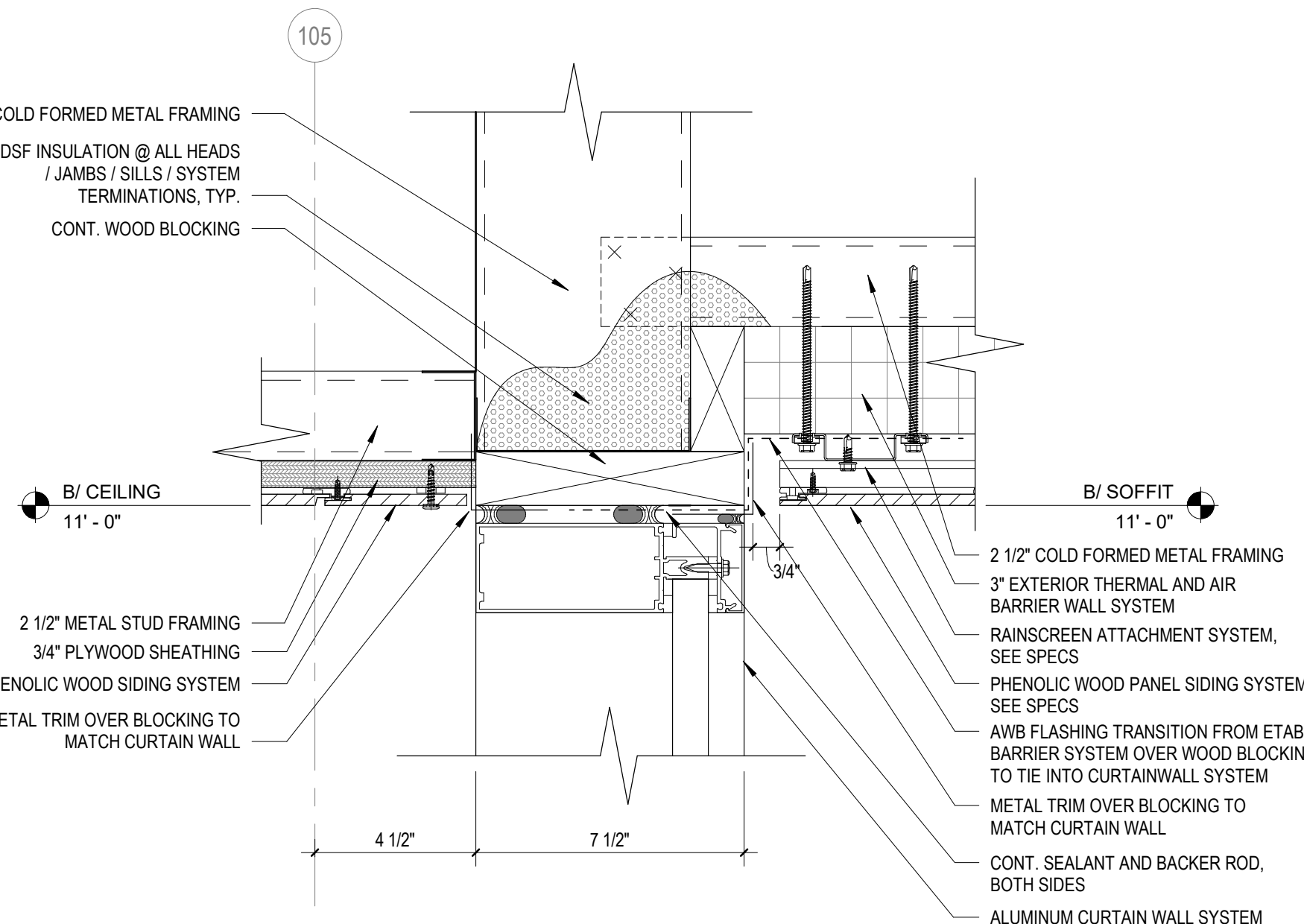
2 SECTION DETAIL - CURTAIN WALL AT EXIST SOFFIT
1 1/2" = 1'-0"



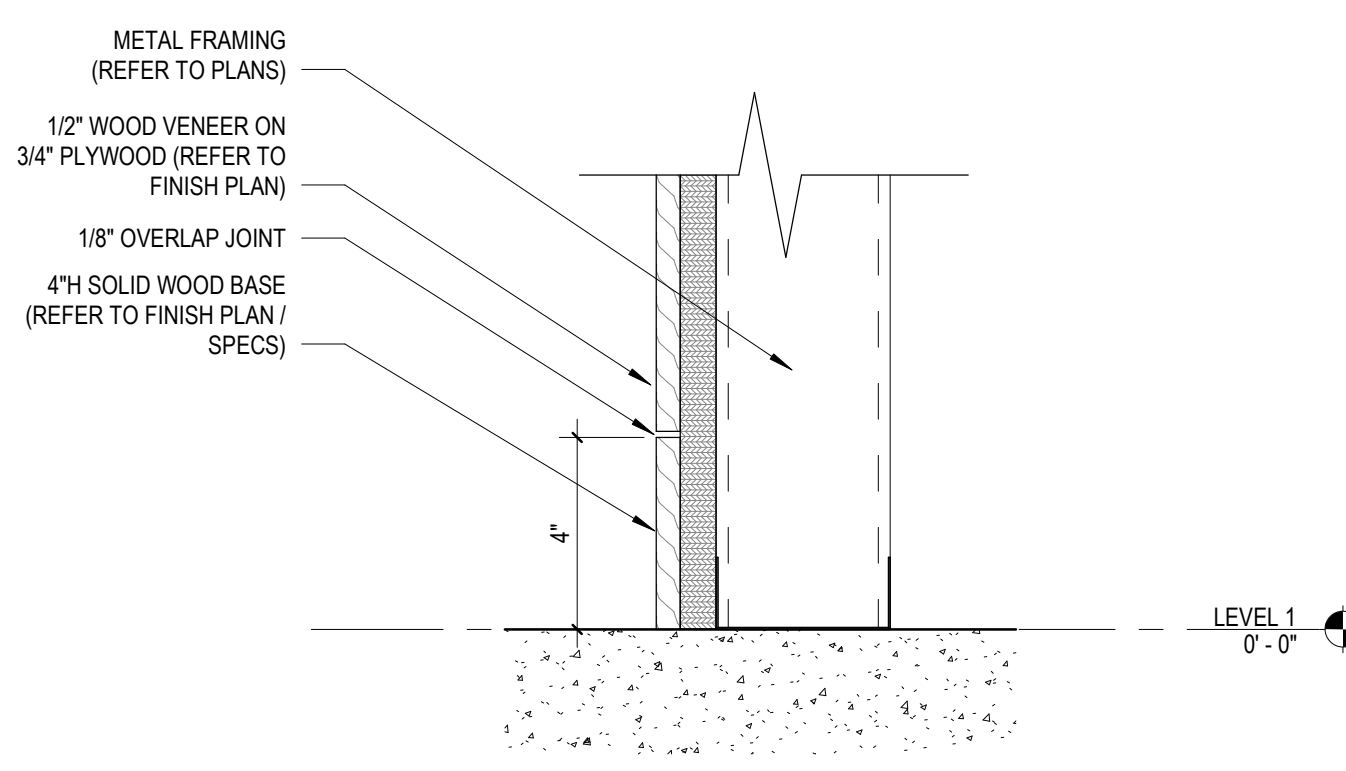
5 SECTION DETAIL - INSULATED METAL PANEL AT EXIST BEAM
1 1/2" = 1'-0"



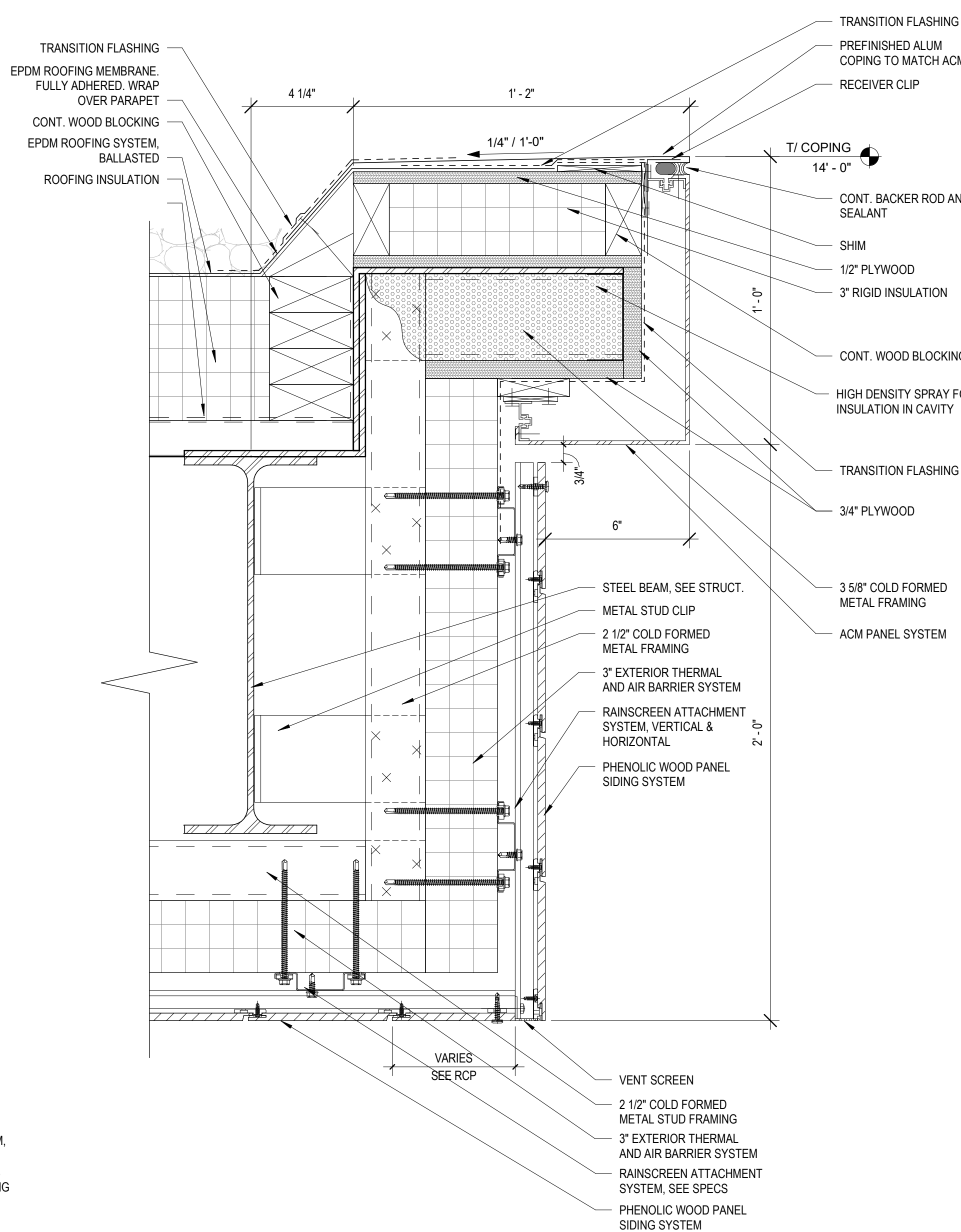
6 SECTION DETAIL - CURTAIN WALL AT EXIST BEAM
1 1/2" = 1'-0"



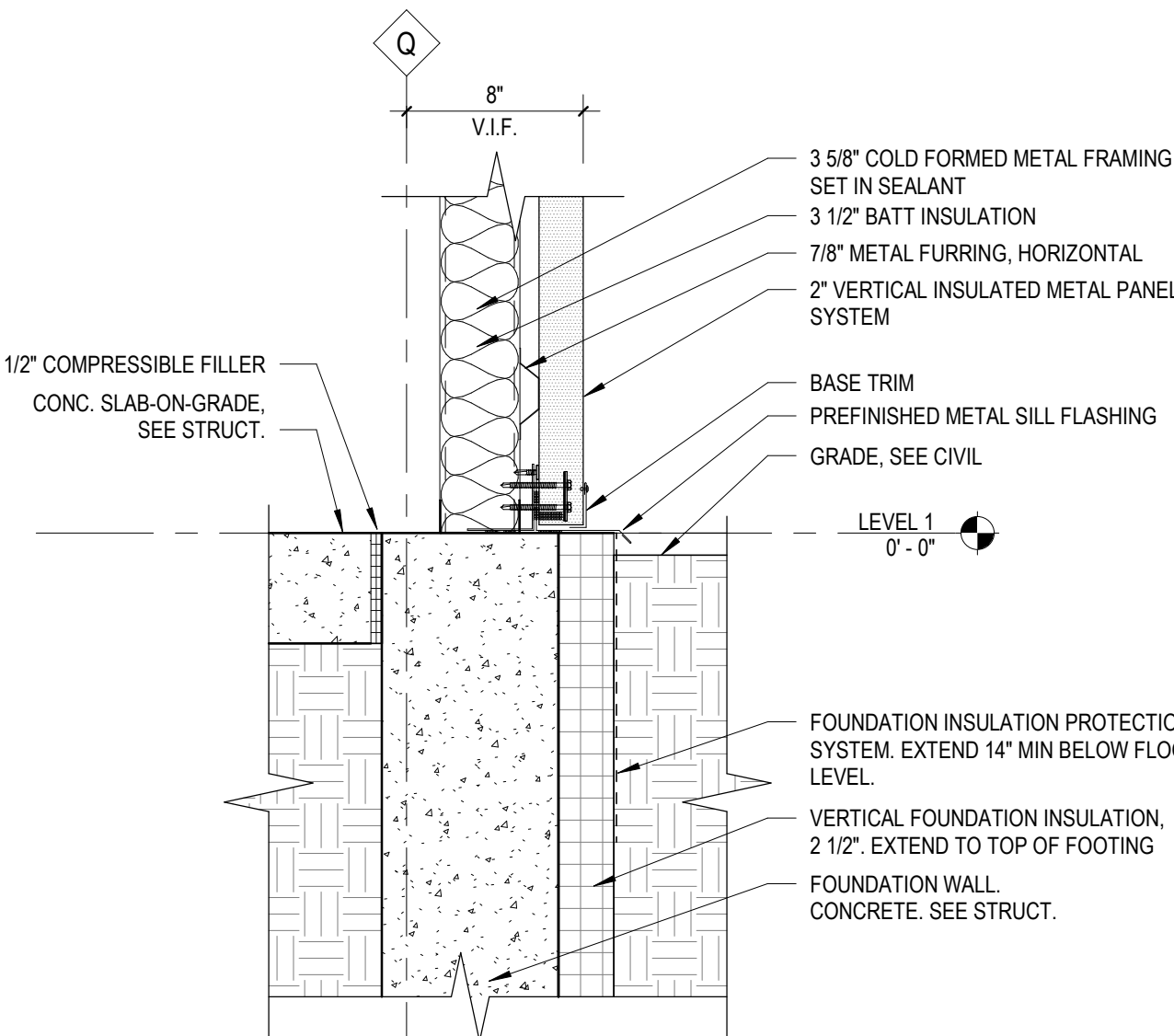
3 SECTION DETAIL - CW HEAD AT VESTIBULE
3" = 1'-0"



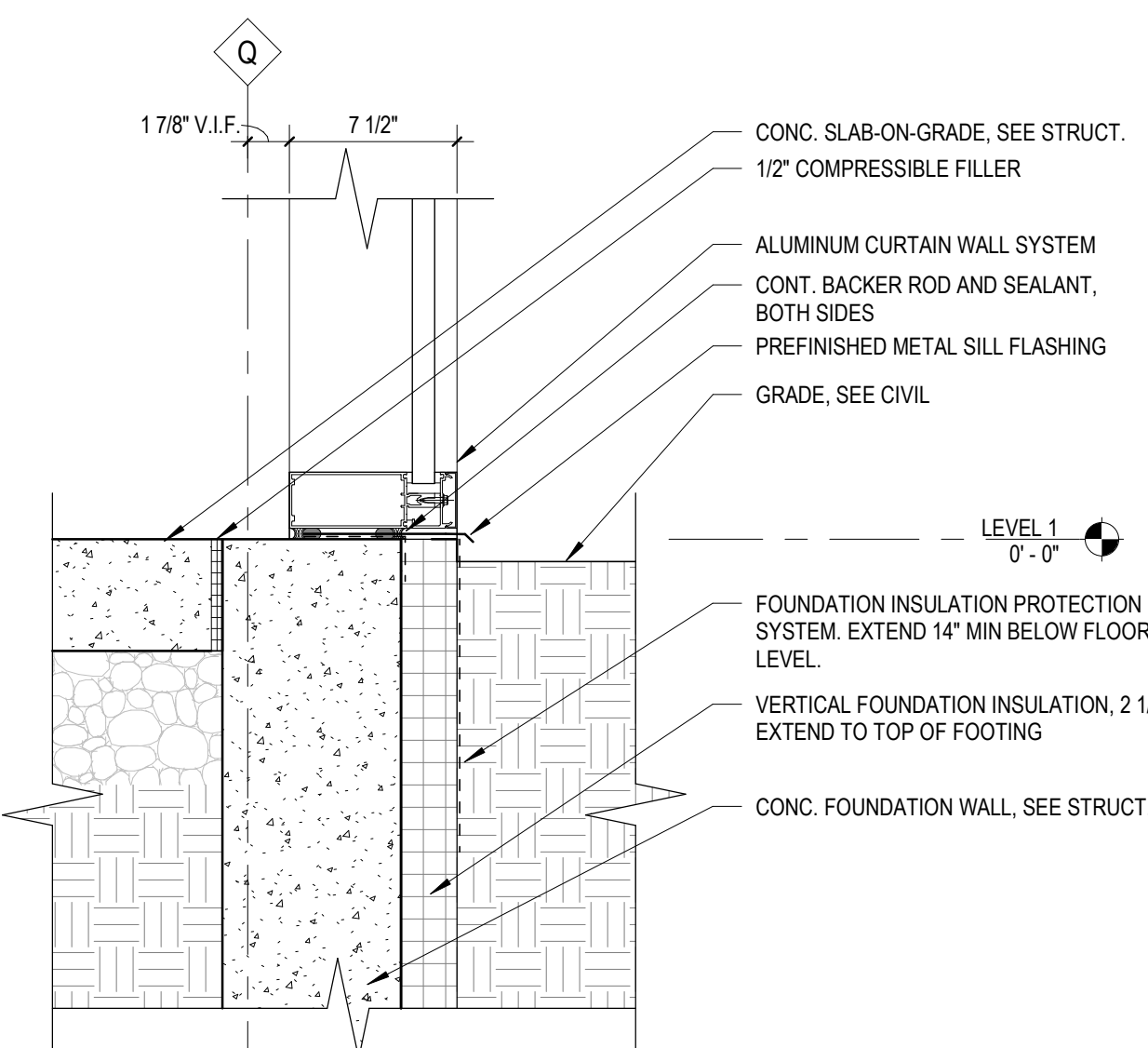
7 SECTION DETAIL - FLUSH WOOD PANEL SYSTEM BASE
3" = 1'-0"



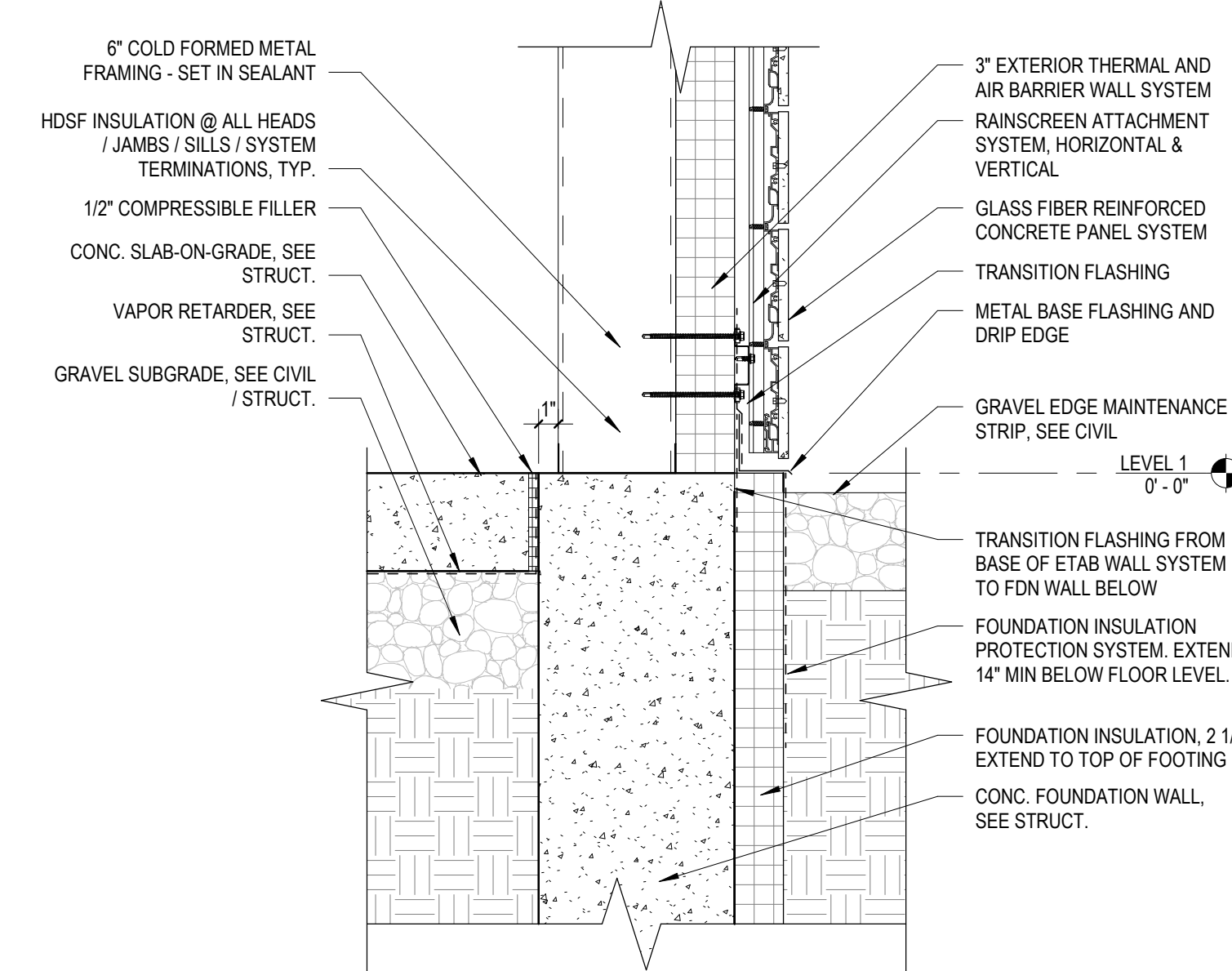
4 SECTION DETAIL - ACM SURROUND
3" = 1'-0"



8 SECTION DETAIL - INSULATED METAL PANEL SILL
1 1/2" = 1'-0"



9 SECTION DETAIL - CURTAIN WALL SILL AT INFILL
1 1/2" = 1'-0"



10 SECTION DETAIL - GFRC SILL
1 1/2" = 1'-0"



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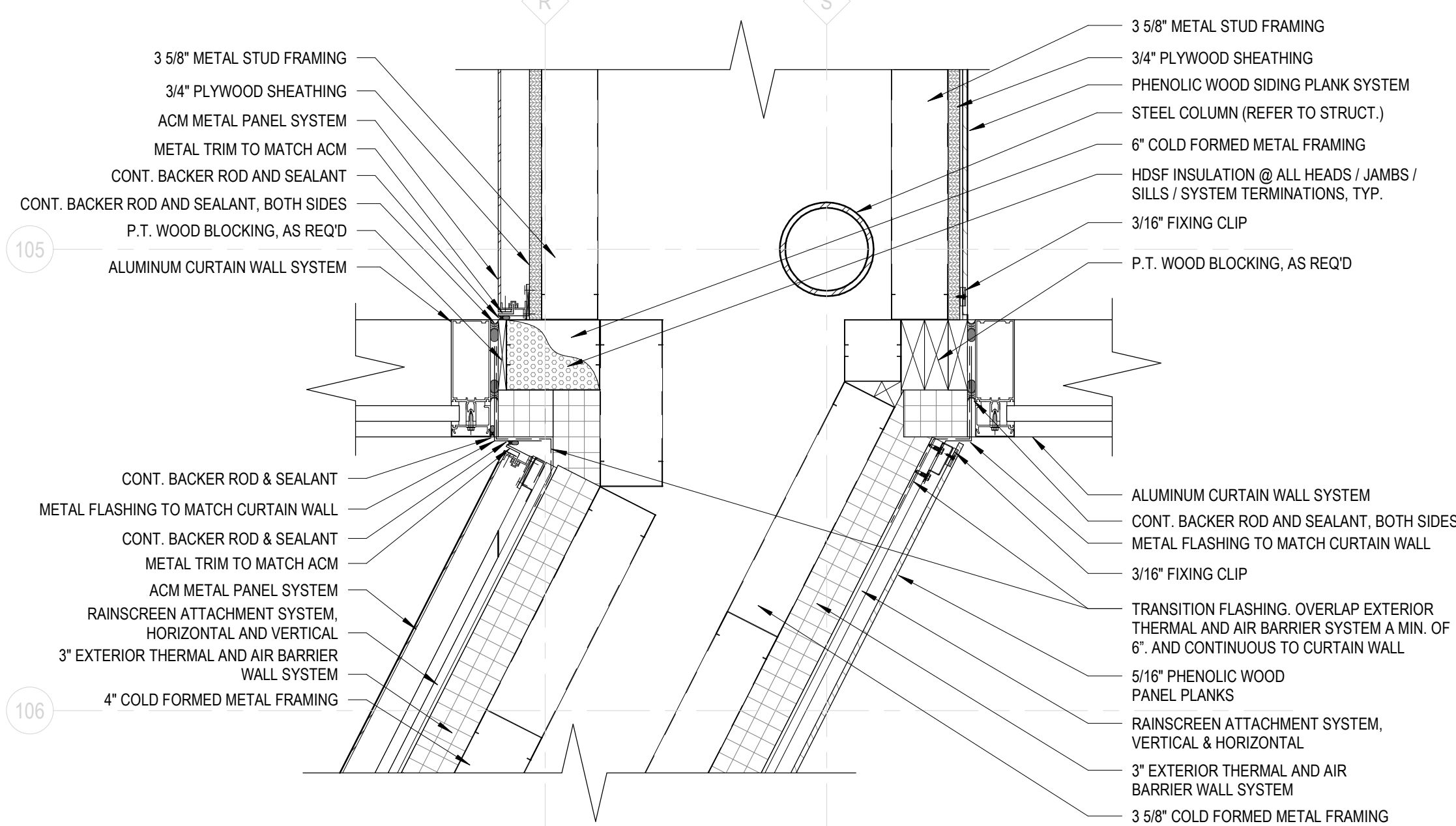
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PLAN DETAILS

SHEET NUMBER:

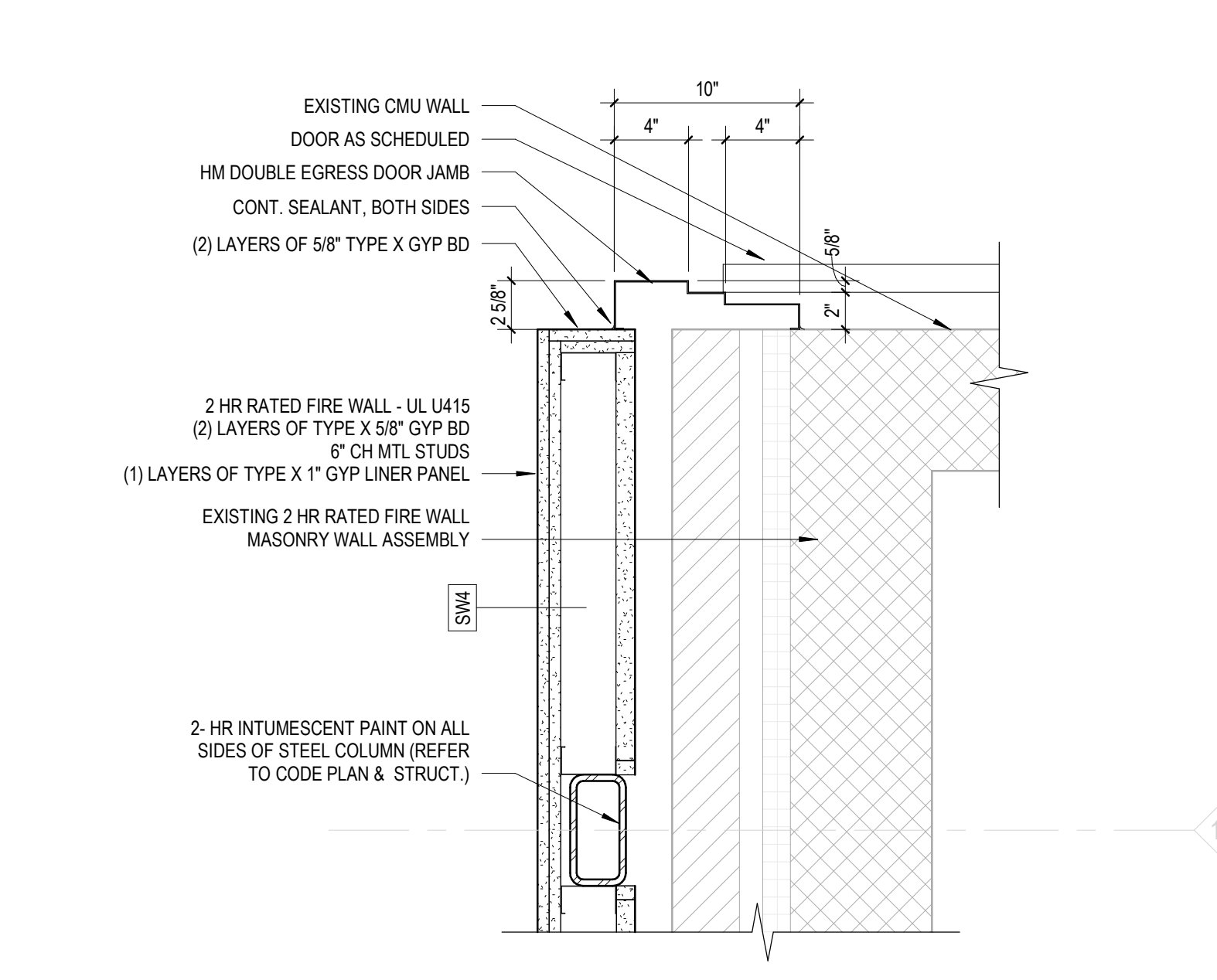
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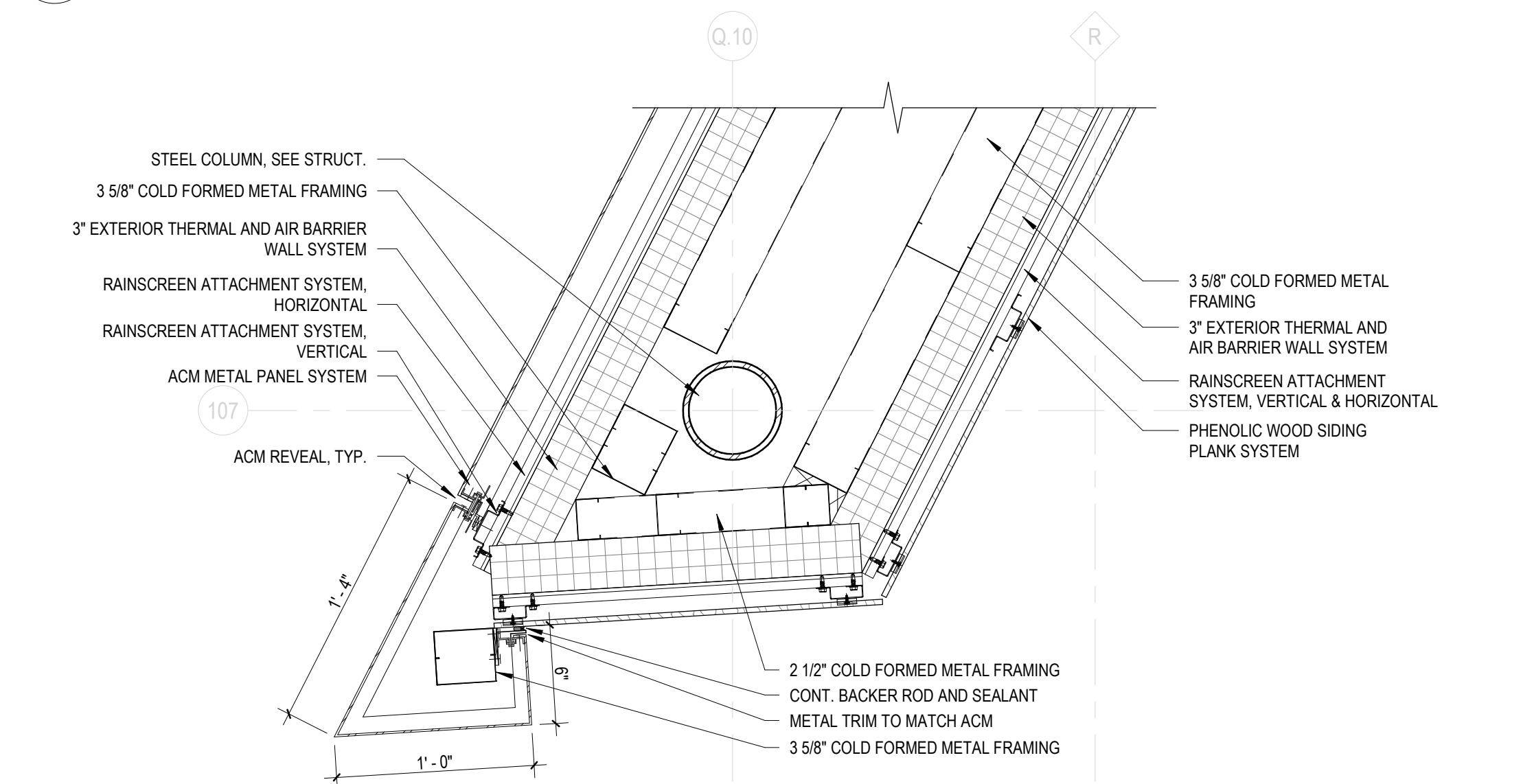
2 PLAN DETAIL - ENTRY WEST WALL
1 1/2" = 1'-0"



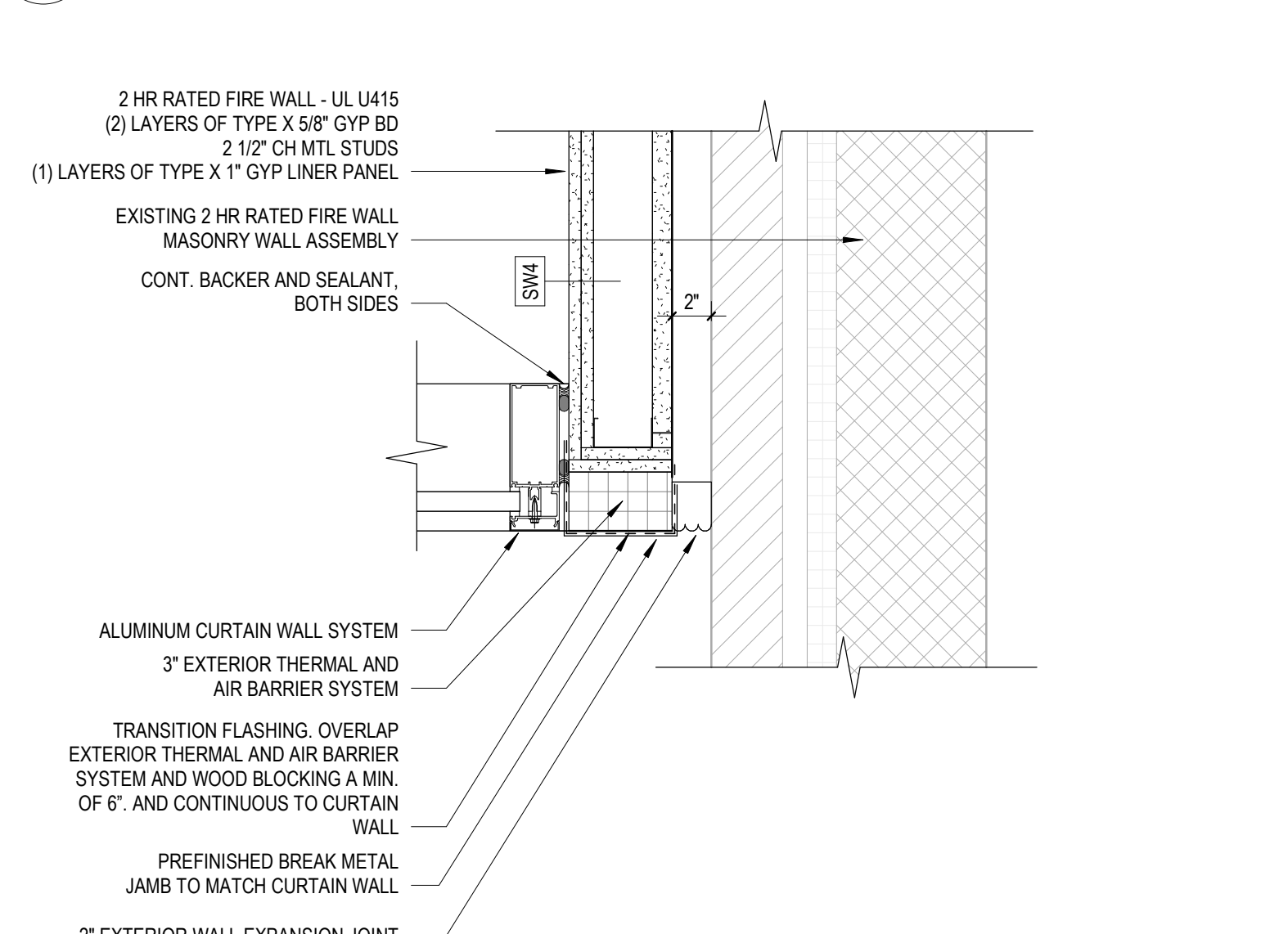
3 PLAN DETAIL - SHAFT WALL CONNECTION
1 1/2" = 1'-0"



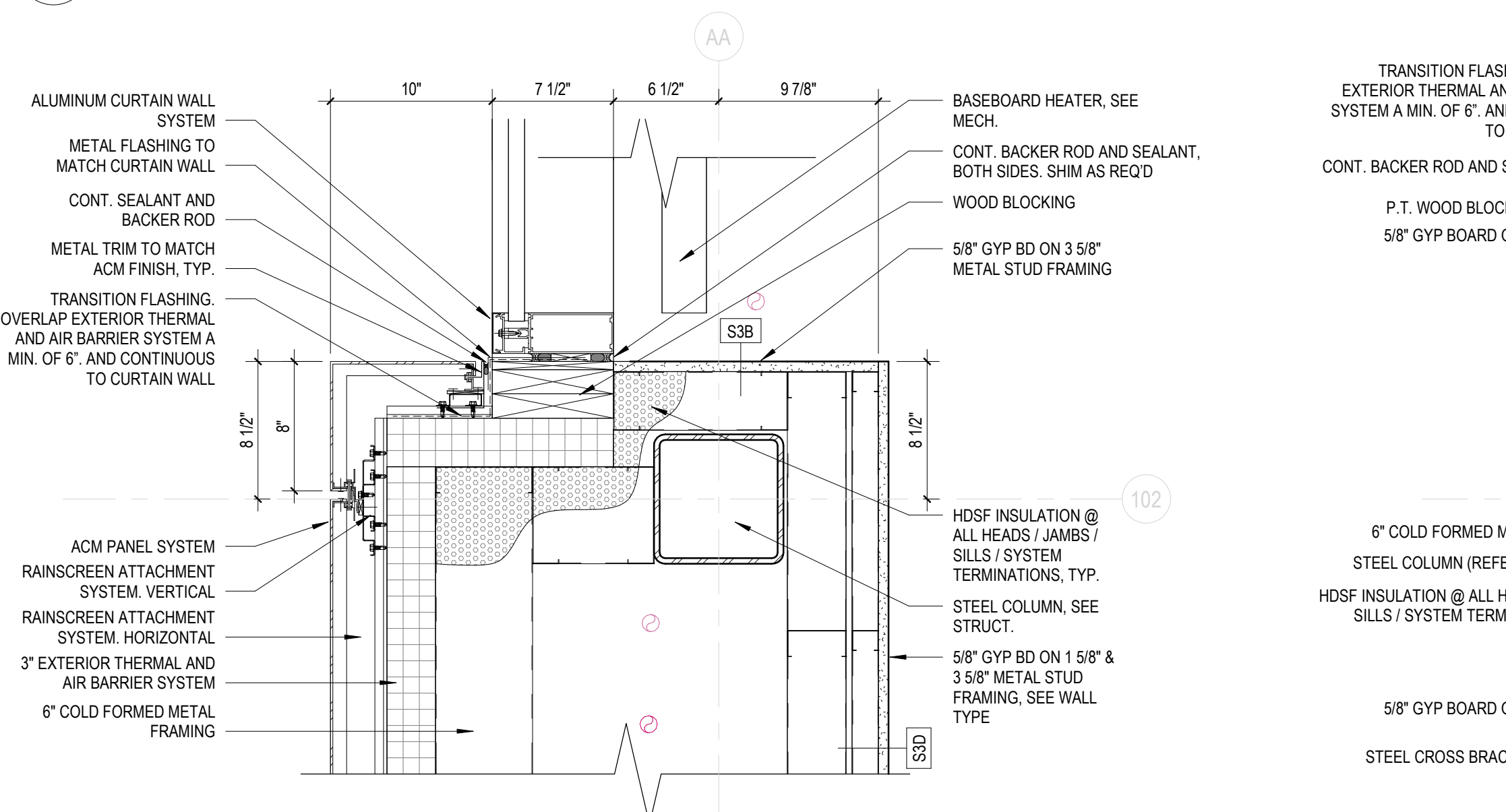
6 PLAN DETAIL - CW JAMB AT WING WALL
1 1/2" = 1'-0"



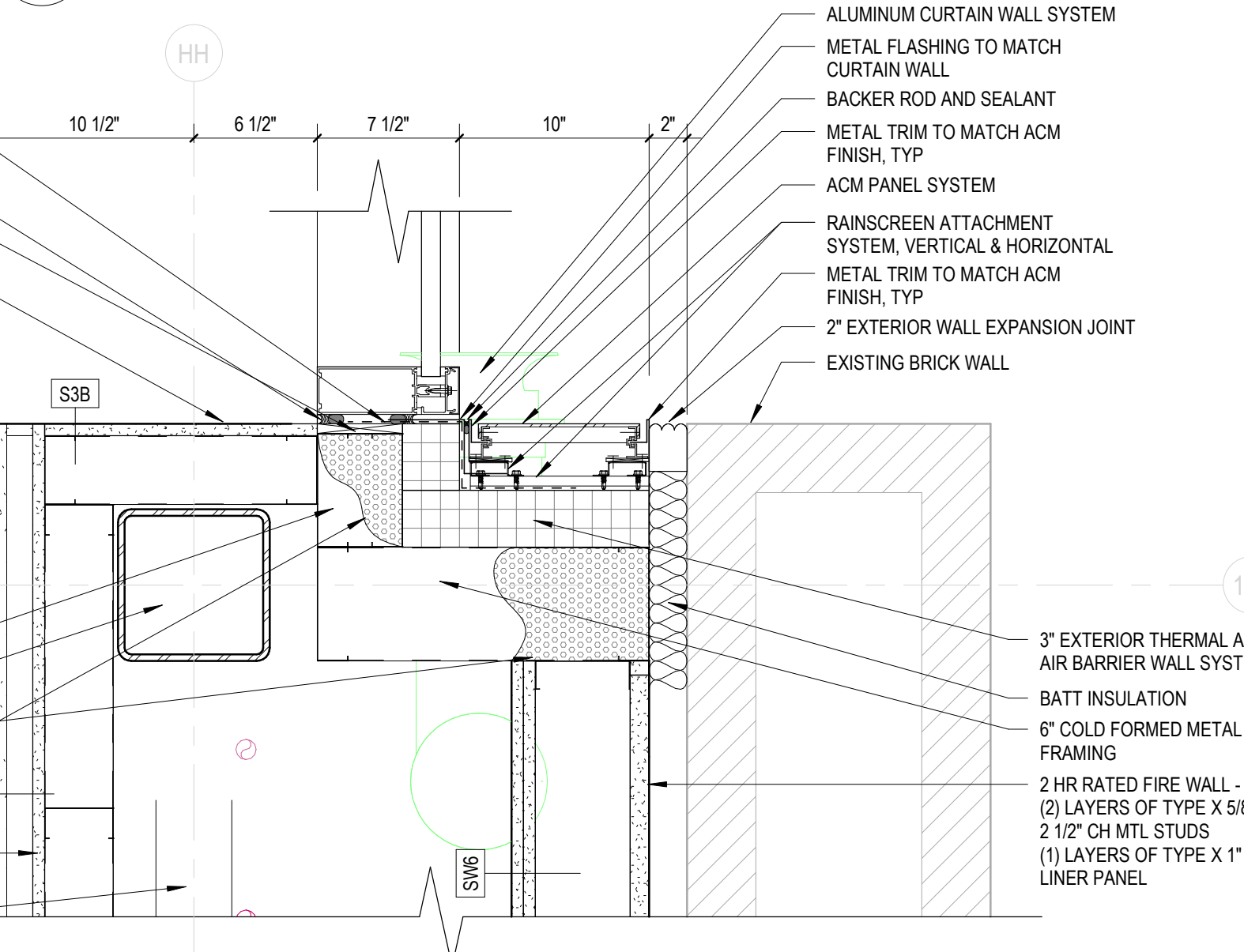
7 PLAN DETAIL - CONNECTING LINK TO BLDG C
1 1/2" = 1'-0"



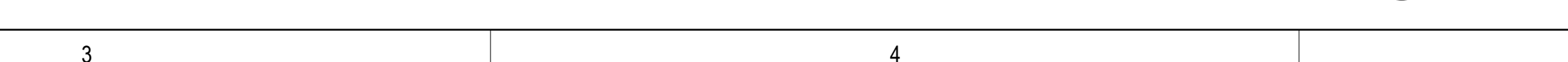
10 PLAN DETAIL - WING WALL
1 1/2" = 1'-0"



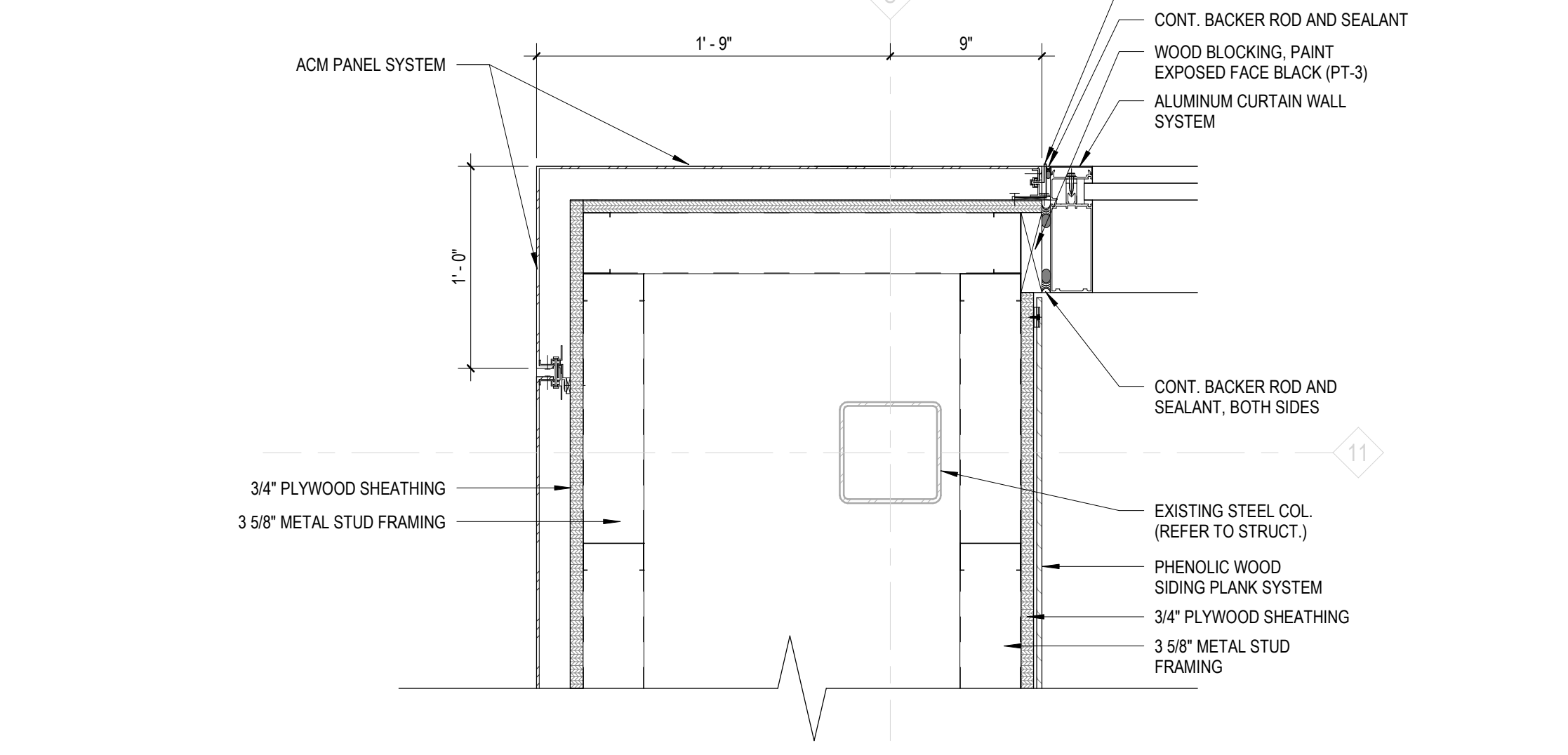
11 PLAN DETAIL - CW @ BLDG C
1 1/2" = 1'-0"



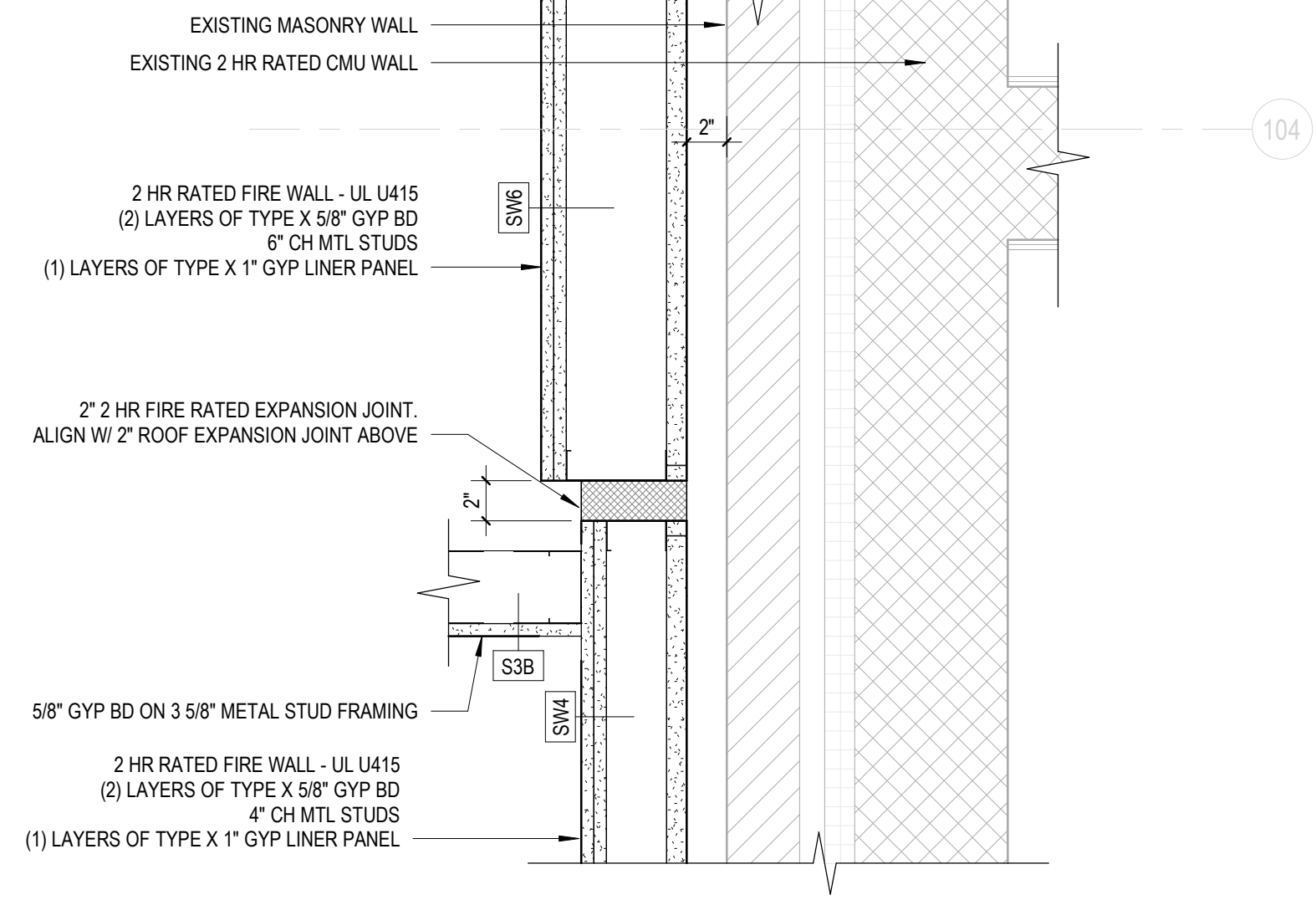
15 PLAN DETAIL - COL HH-102
1 1/2" = 1'-0"



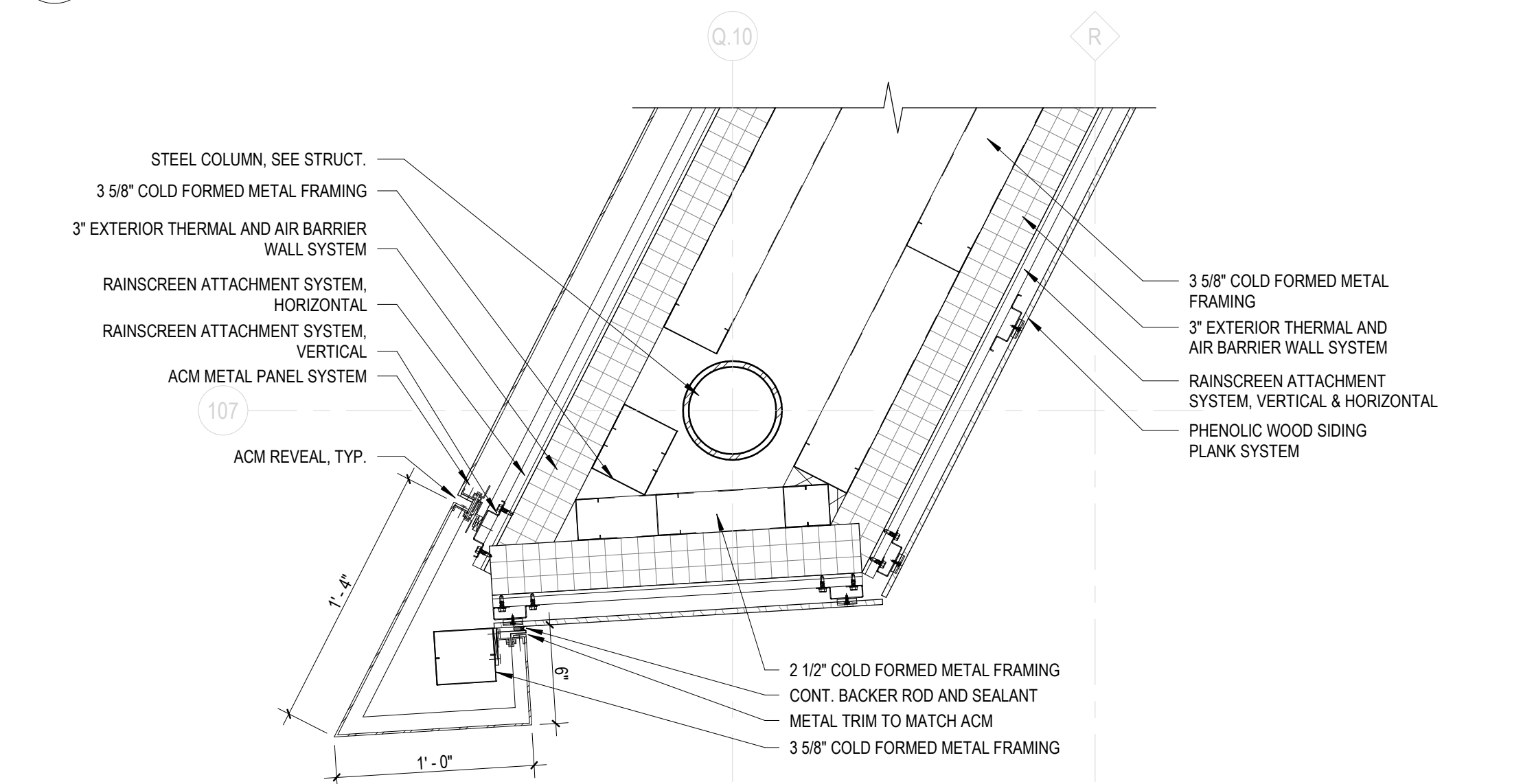
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1 1/2" = 1'-0"



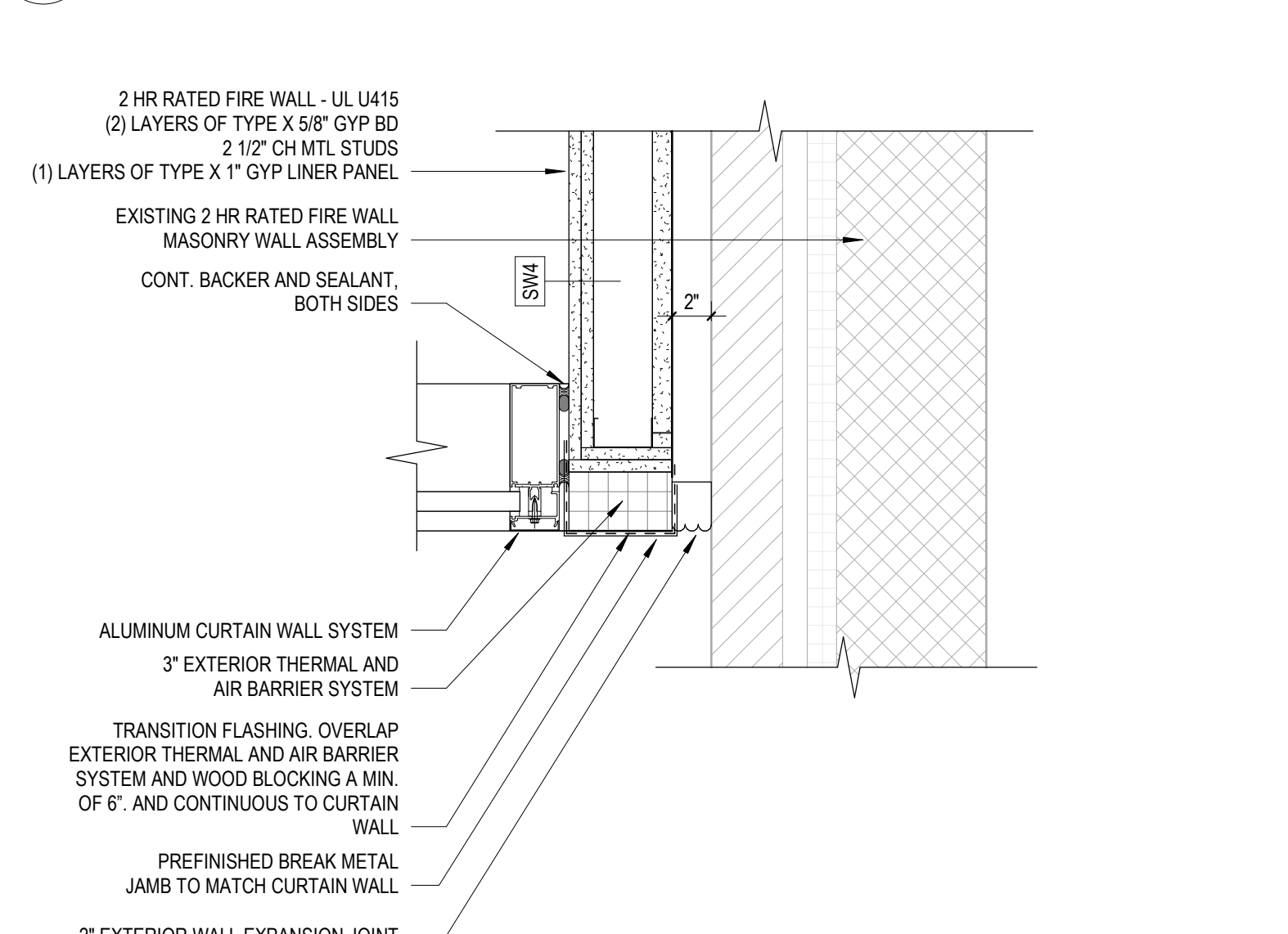
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1 1/2" = 1'-0"



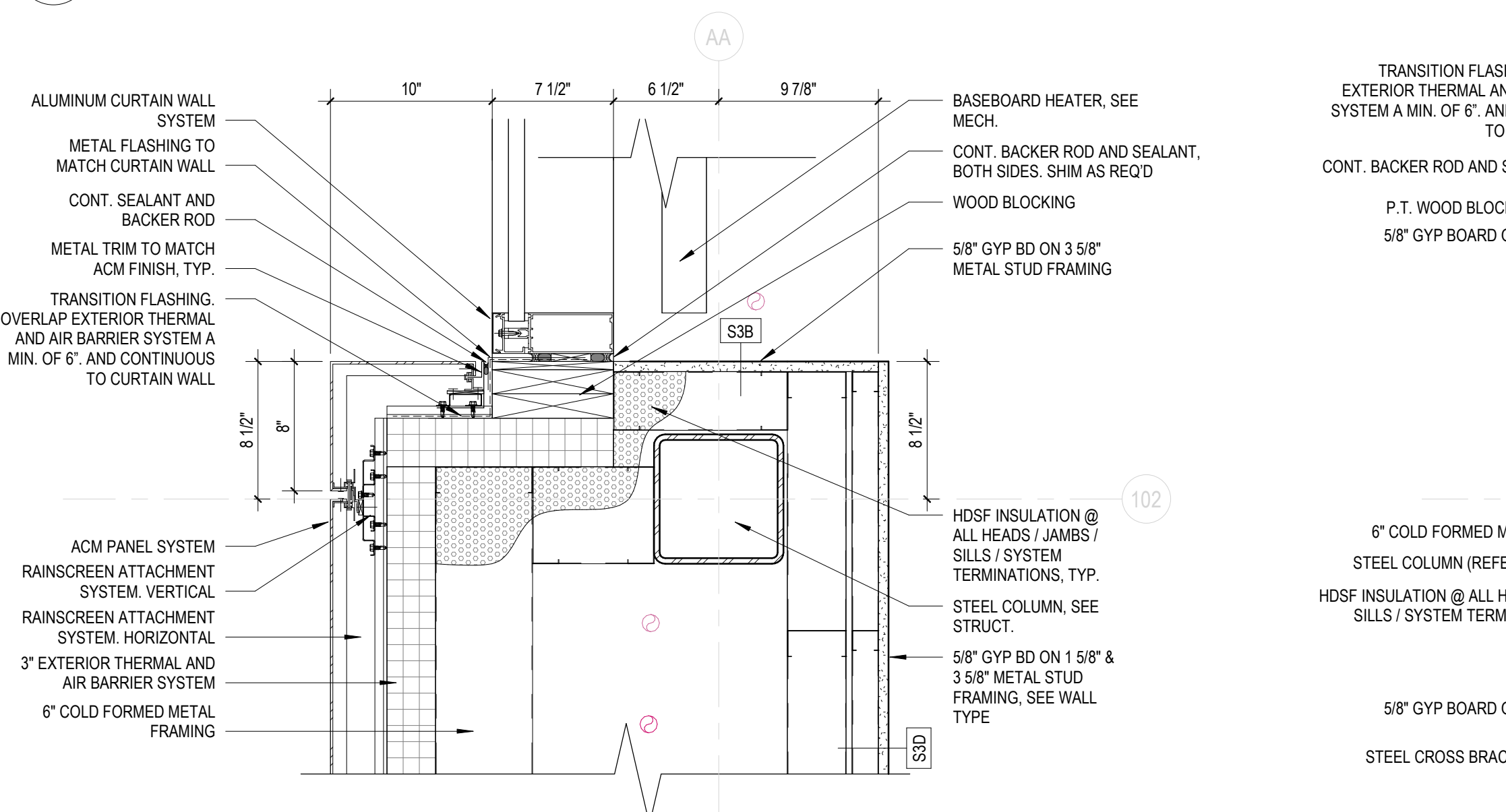
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1 1/2" = 1'-0"



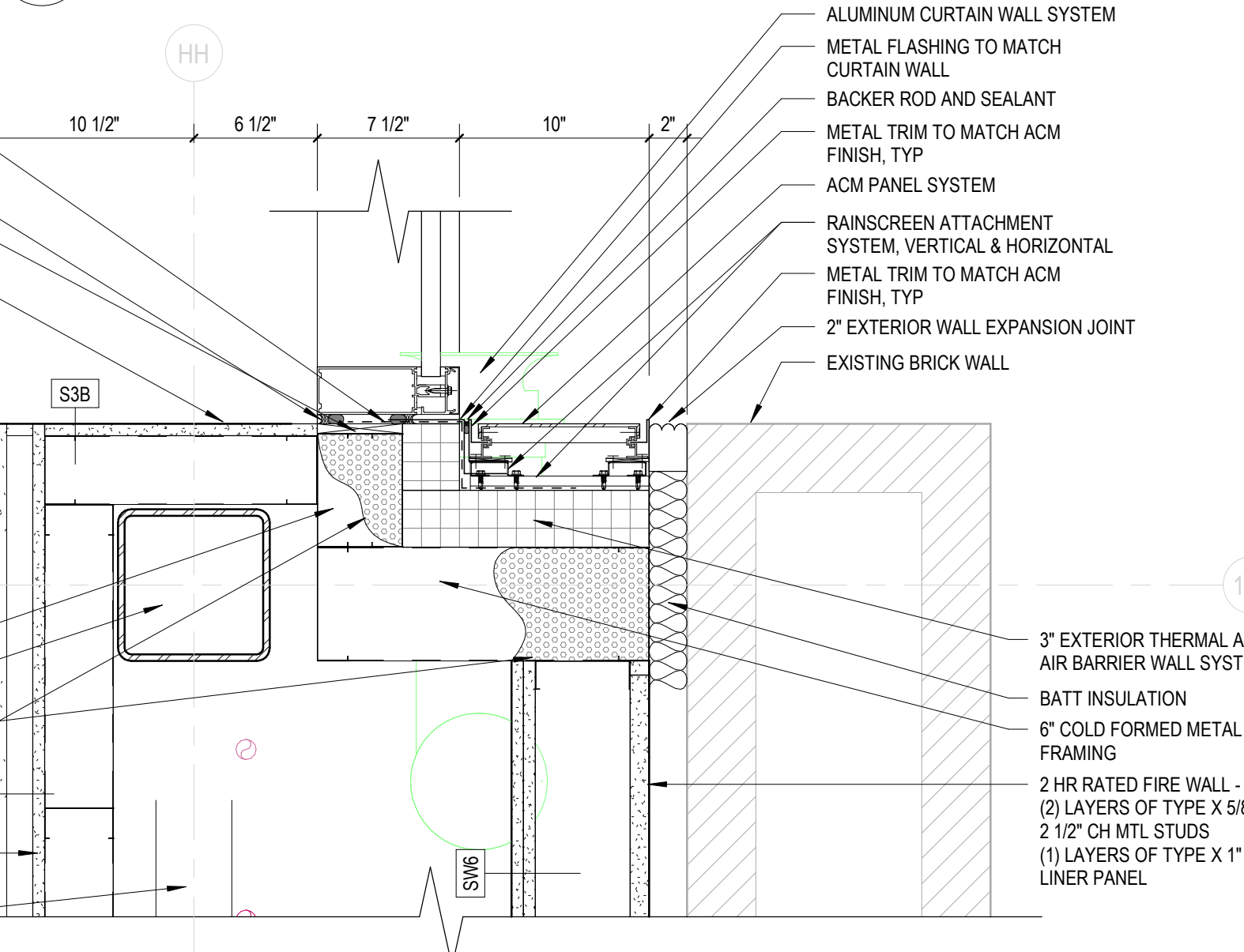
7 PLAN DETAIL - CONNECTING LINK TO BLDG C
1 1/2" = 1'-0"



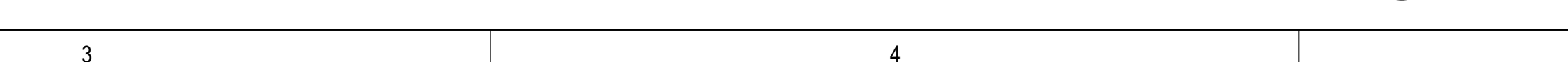
10 PLAN DETAIL - WING WALL
1 1/2" = 1'-0"



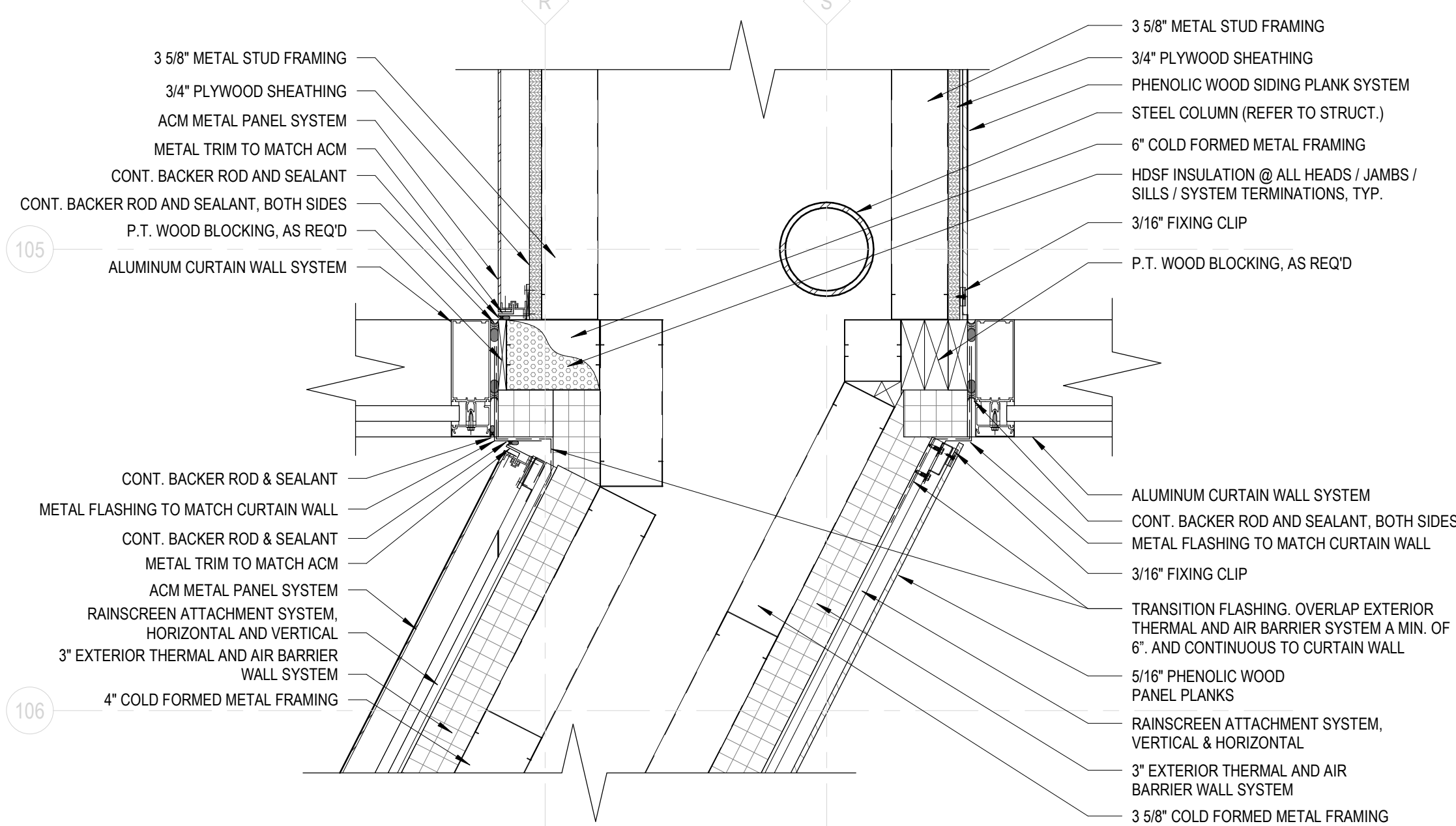
11 PLAN DETAIL - CW @ BLDG C
1 1/2" = 1'-0"



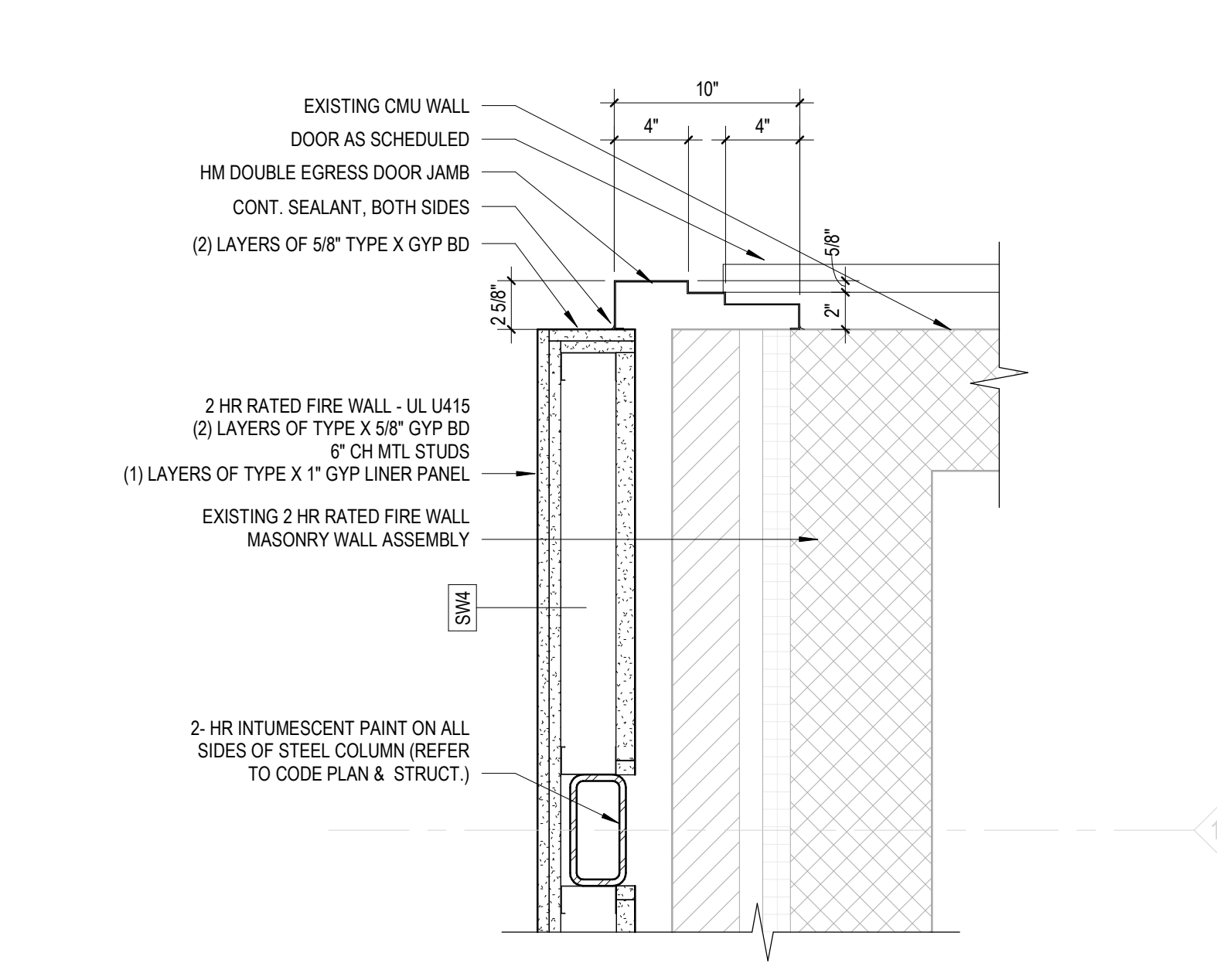
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1 1/2" = 1'-0"



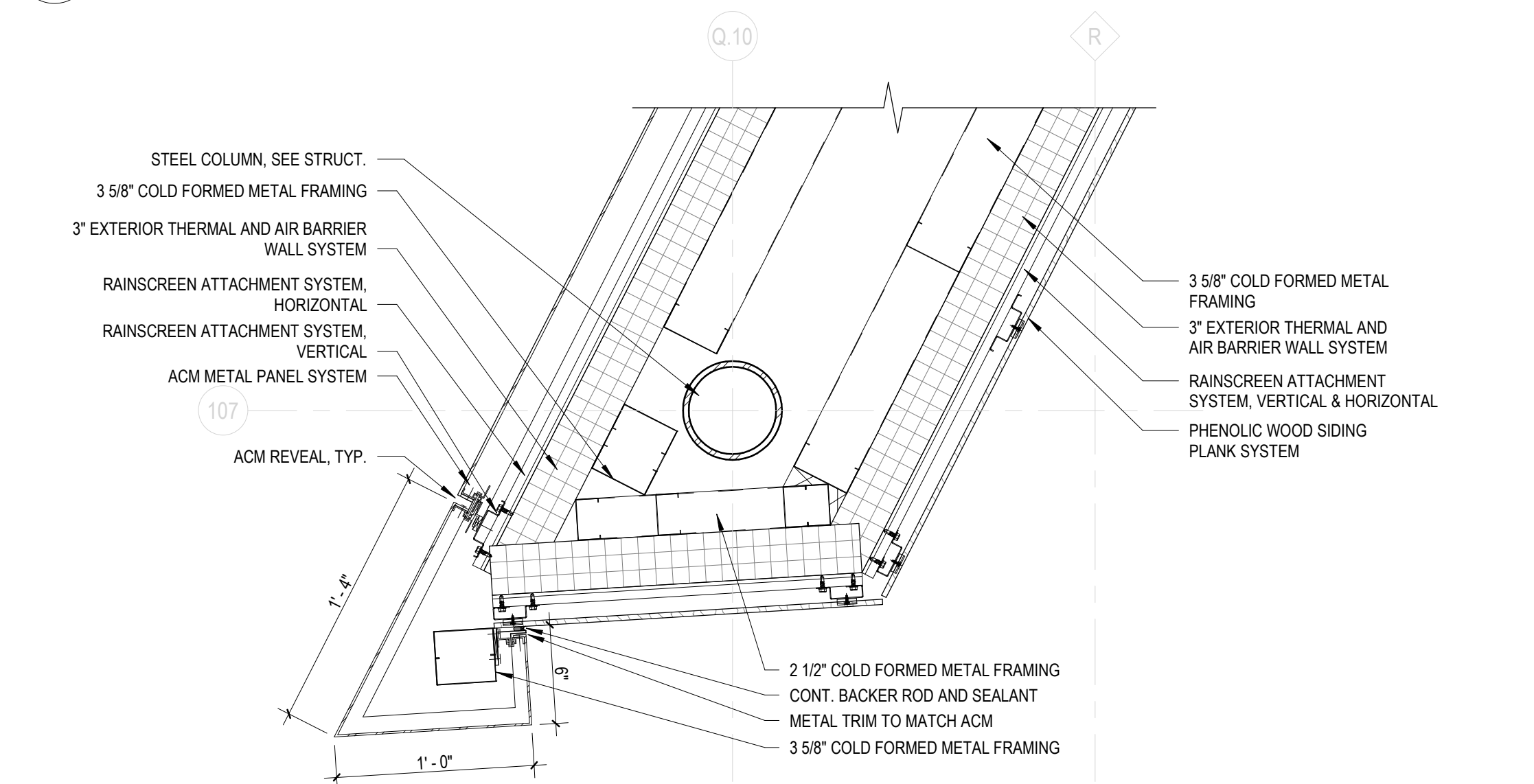
2 PLAN DETAIL - ENTRY WEST WALL
1 1/2" = 1'-0"



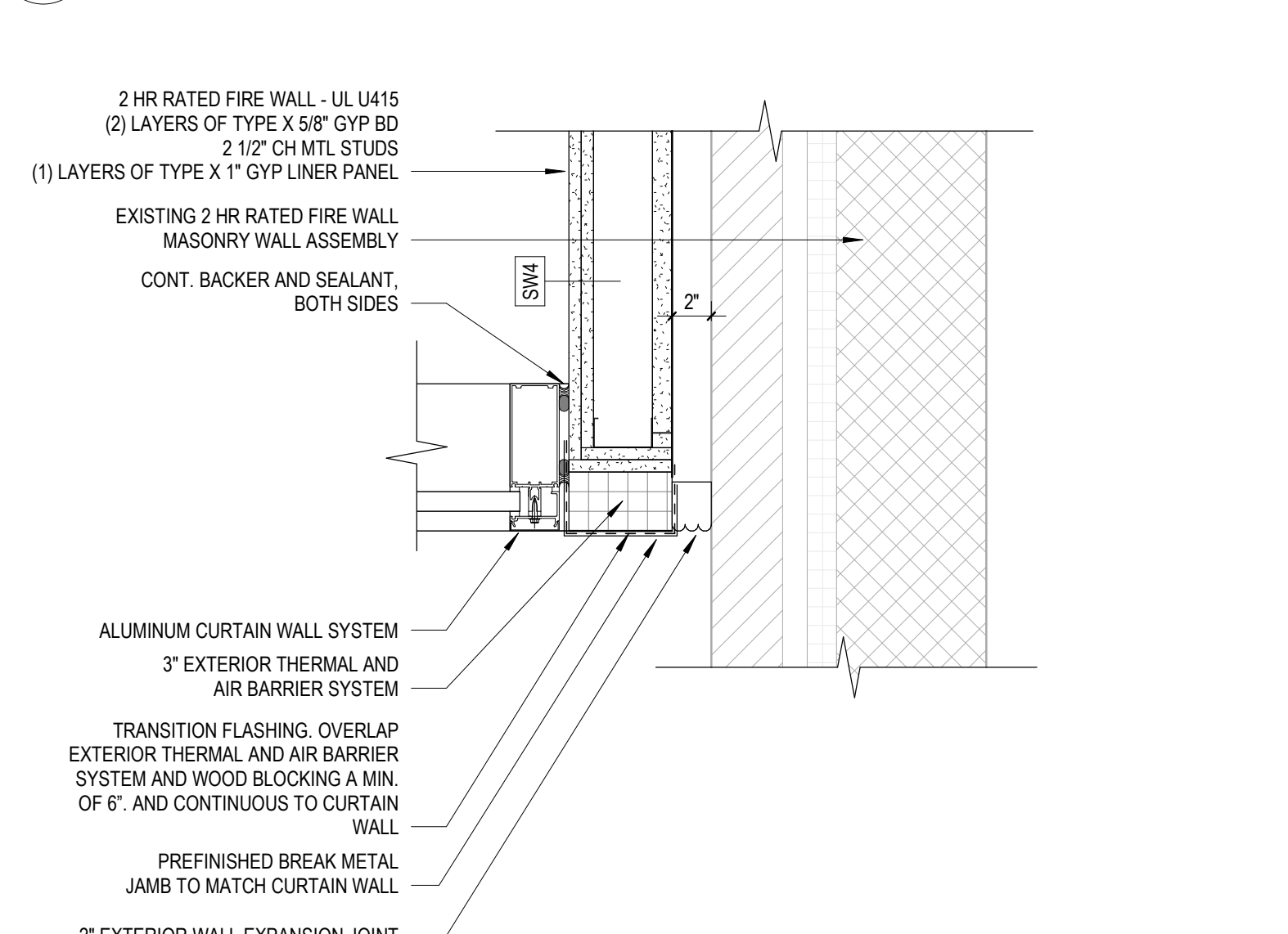
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1 1/2" = 1'-0"



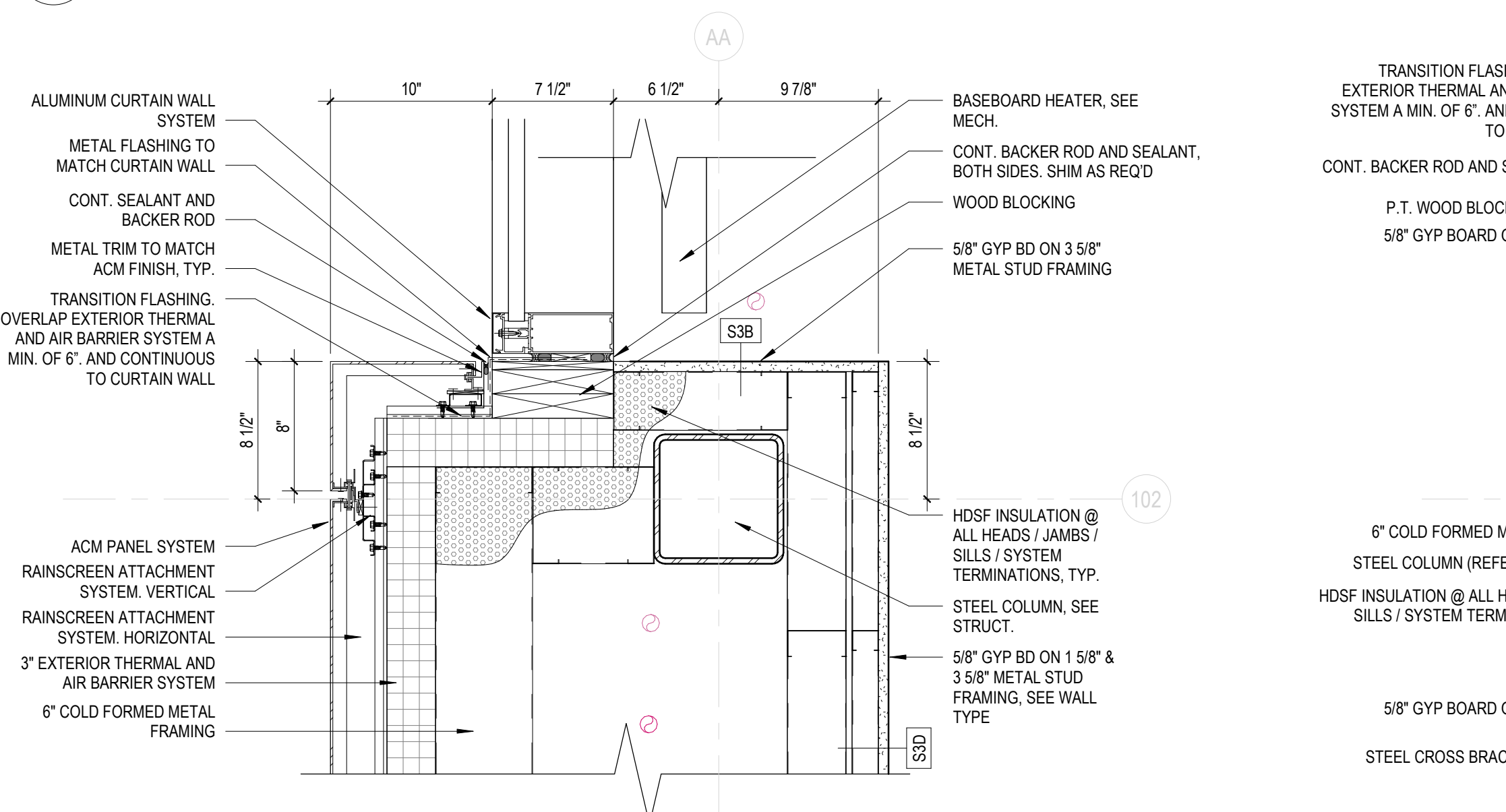
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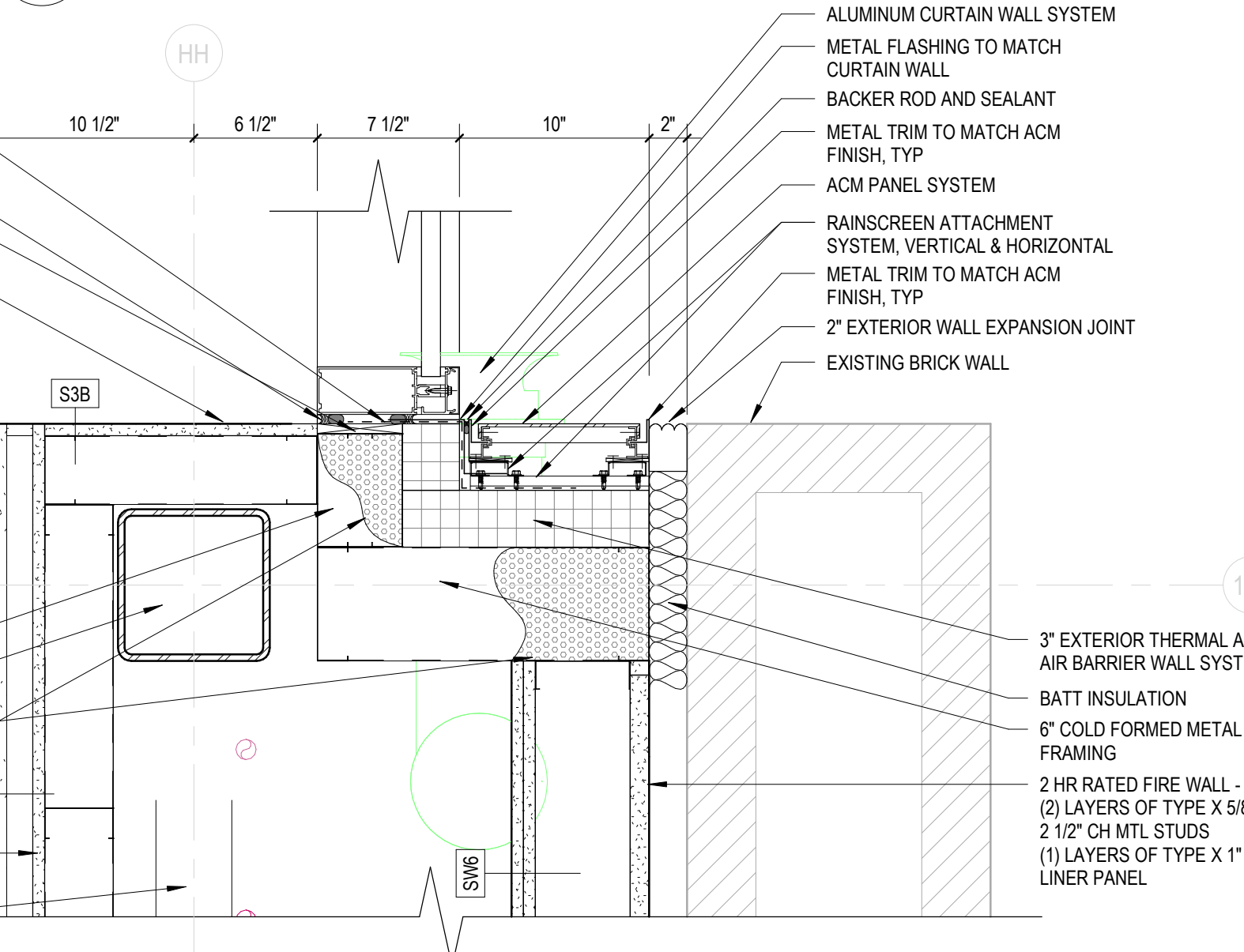
7 PLAN DETAIL - CONNECTING LINK TO BLDG C
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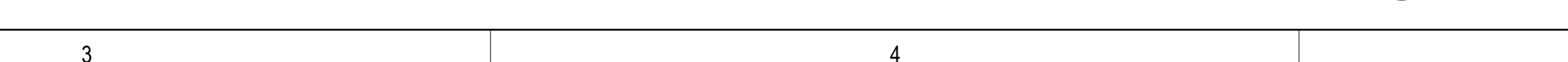
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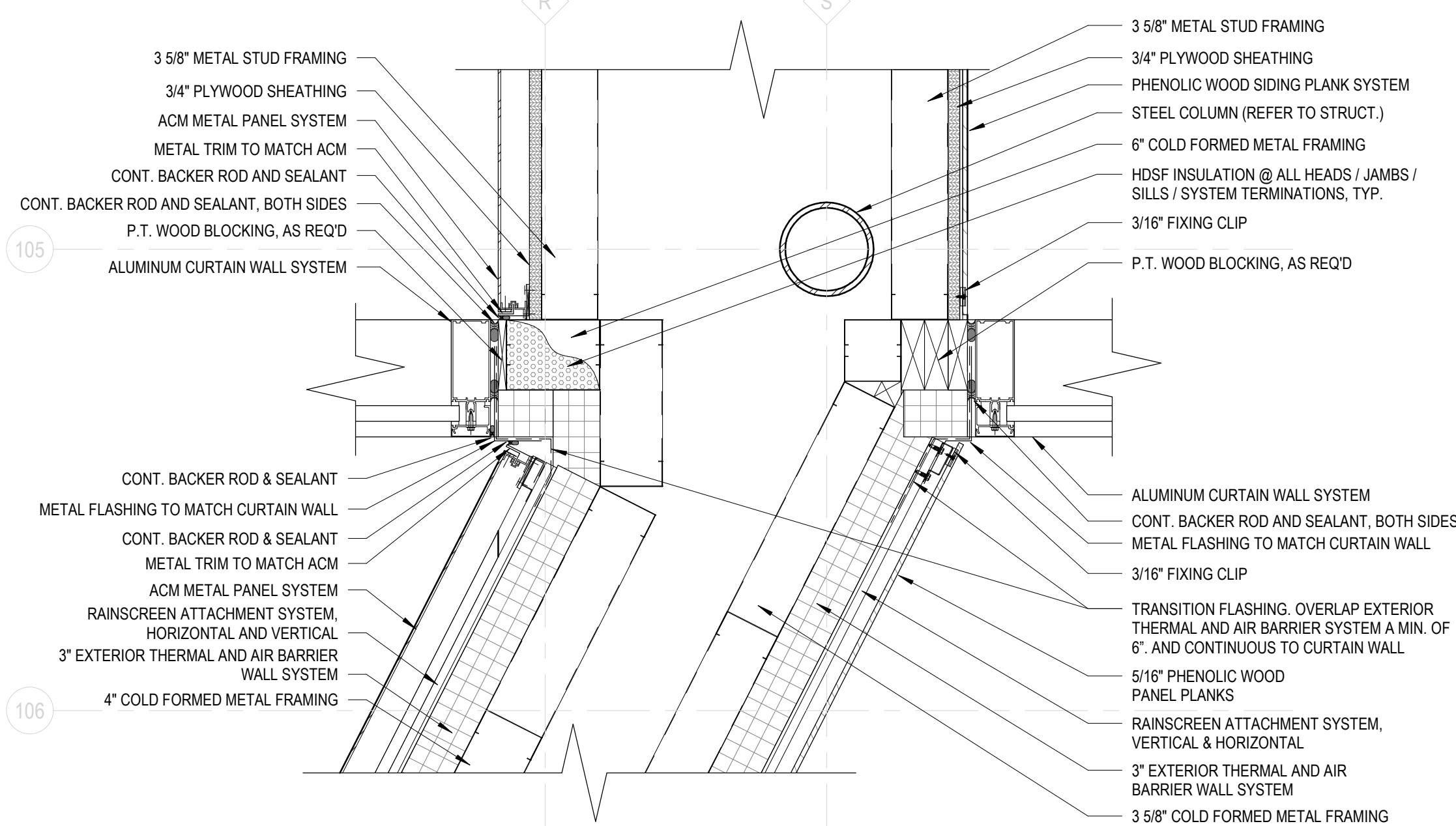
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1 1/2" = 1'-0"



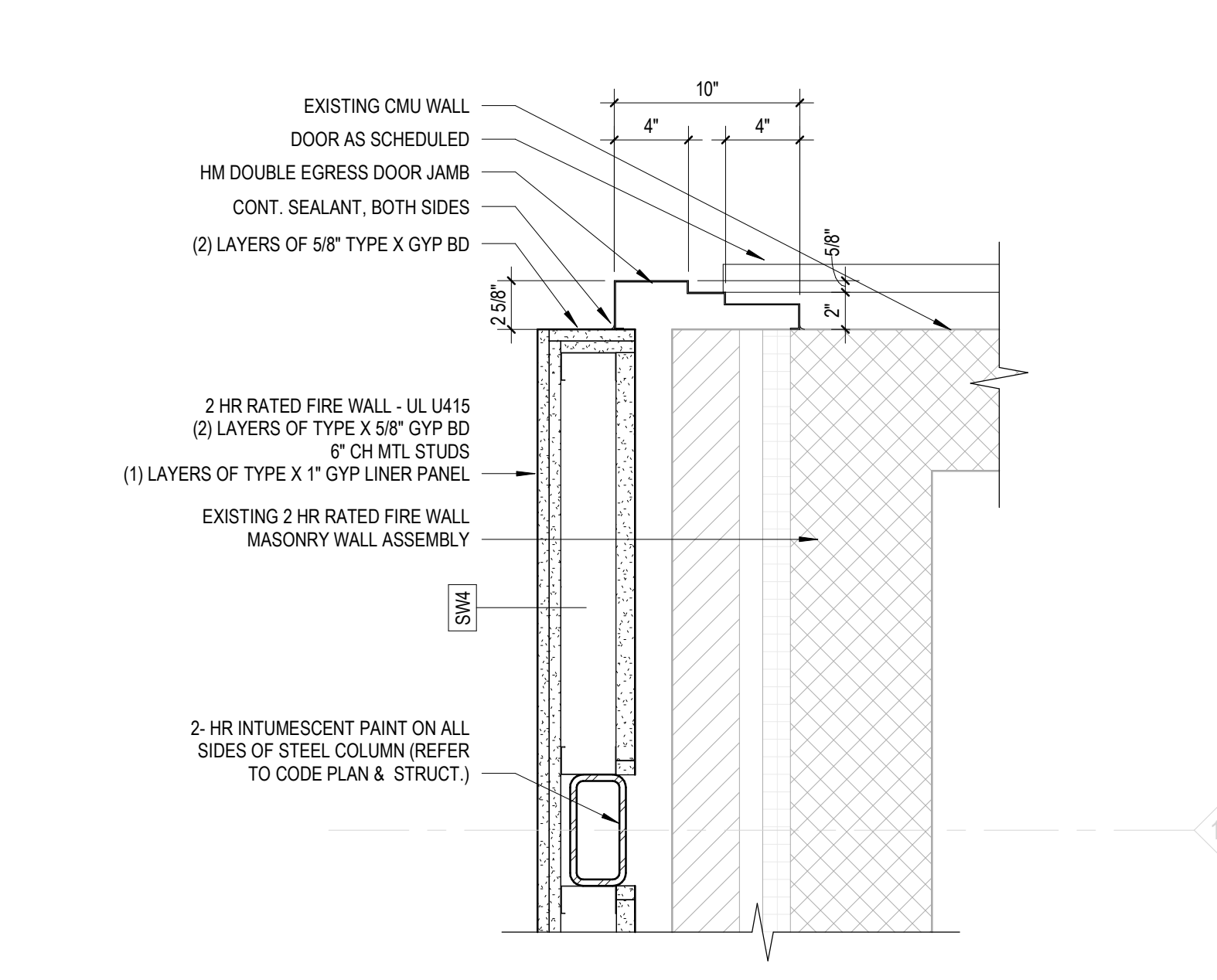
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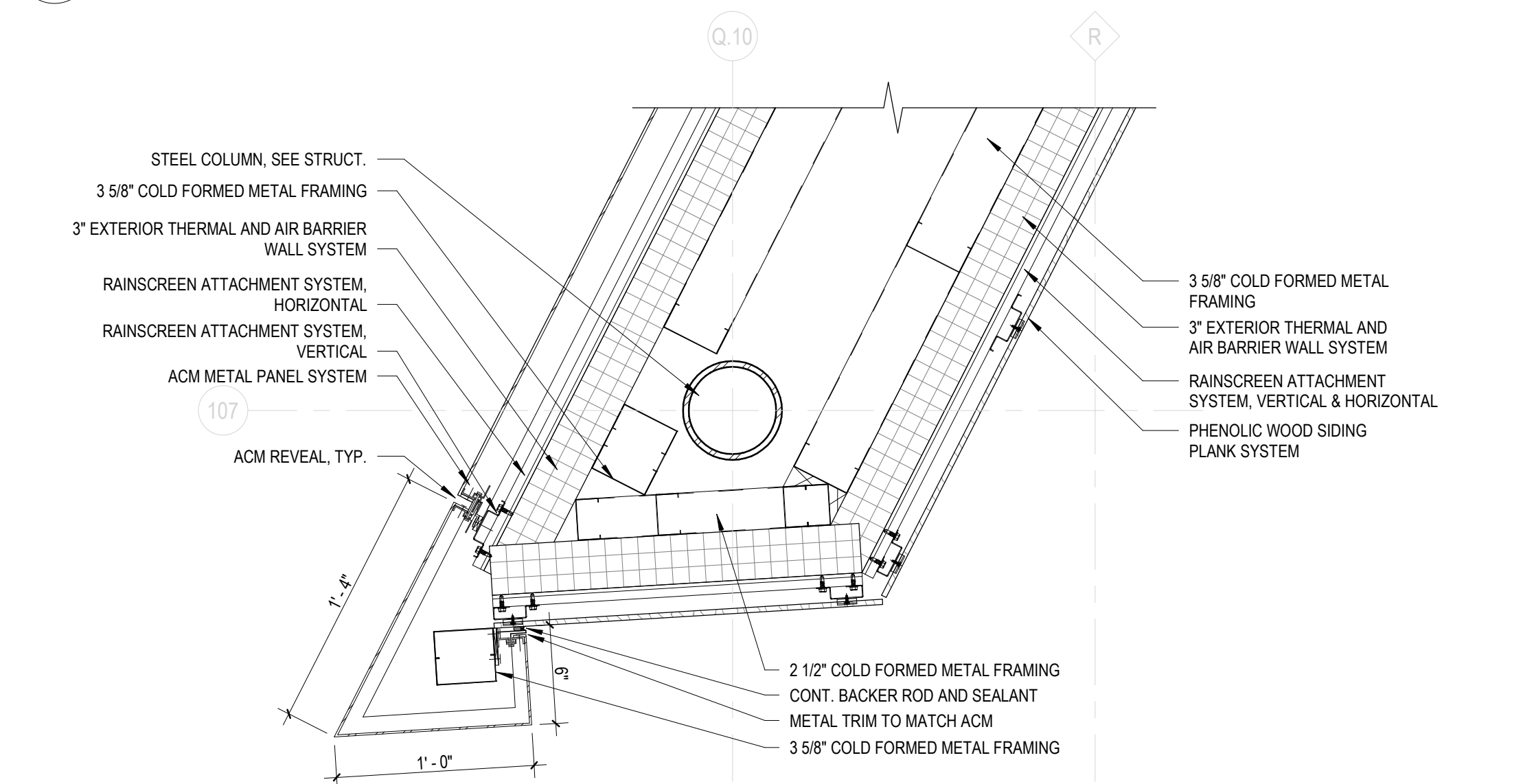
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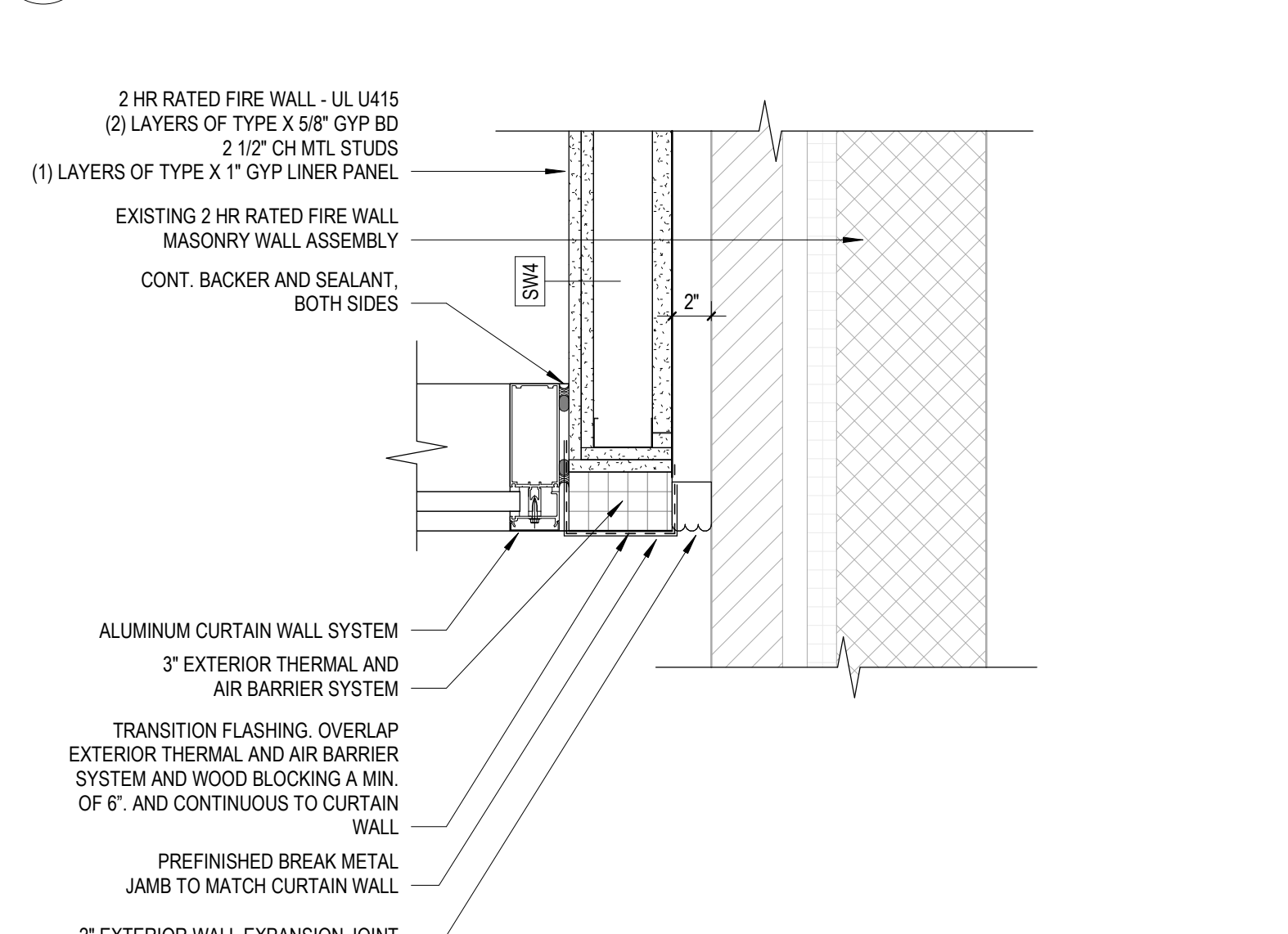
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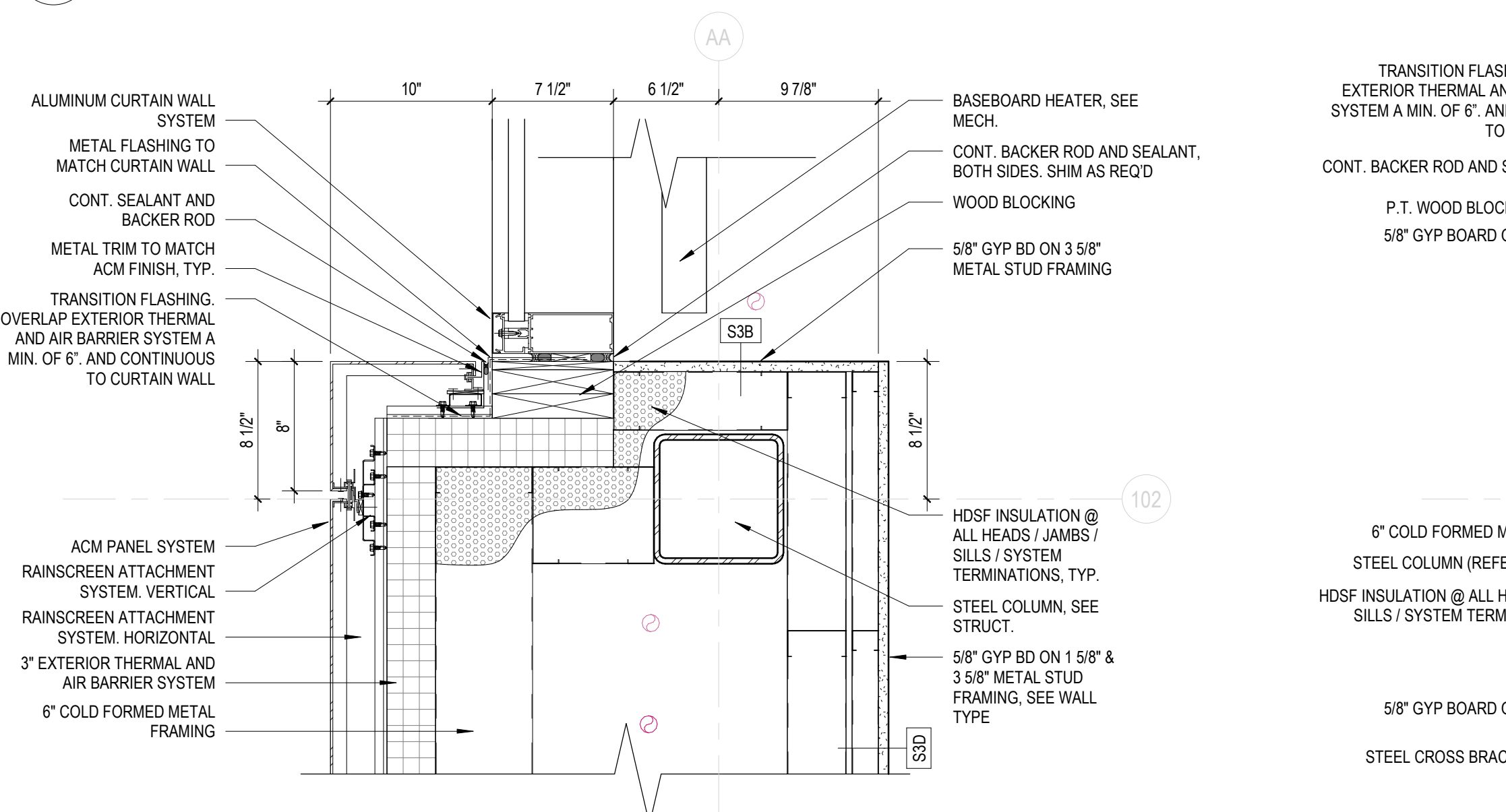
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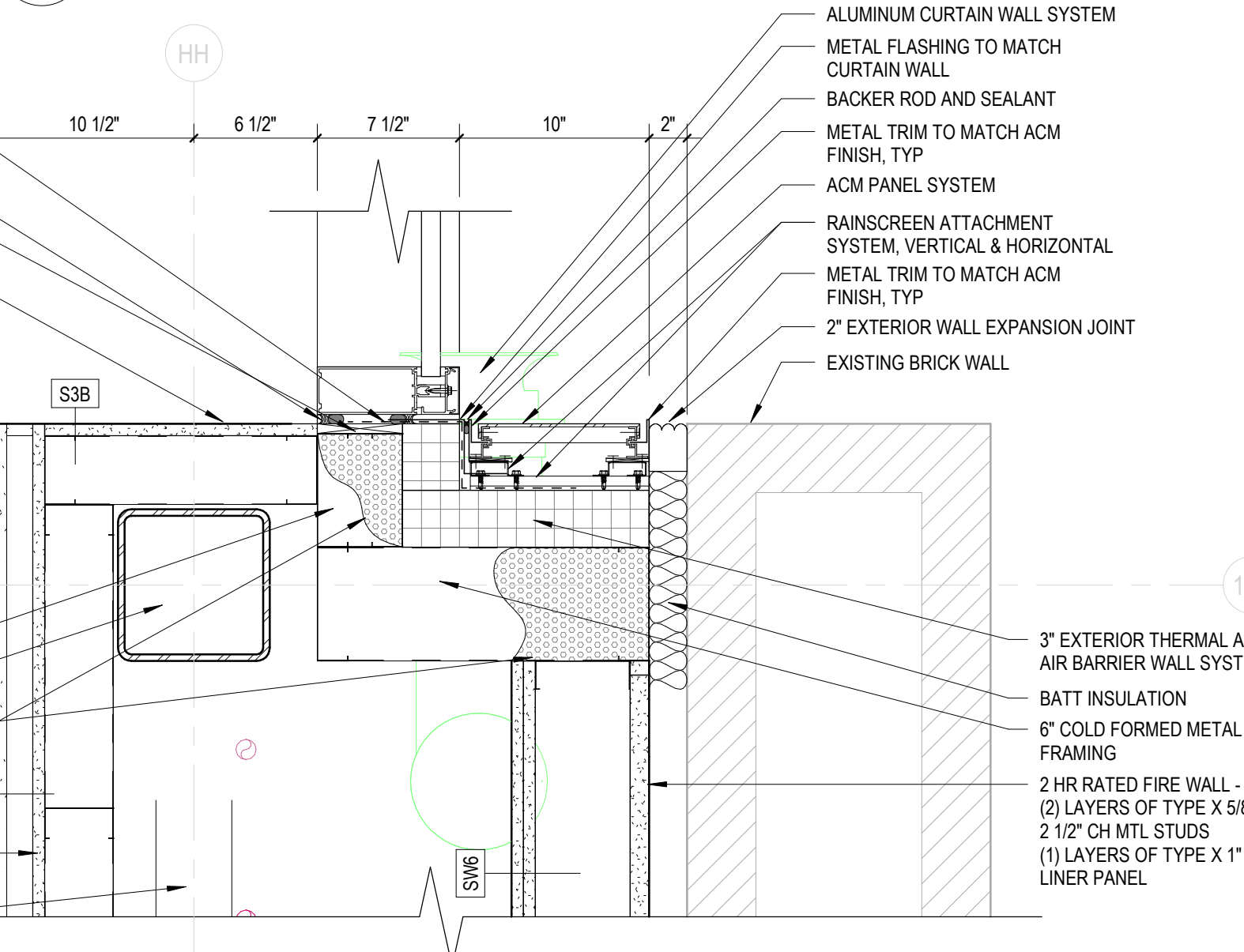
7 PLAN DETAIL - CONNECTING LINK TO BLDG C
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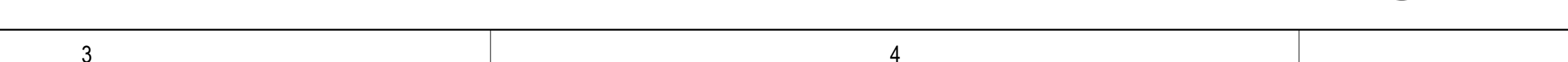
10 PLAN DETAIL - WING WALL
1 1/2" = 1'-0"



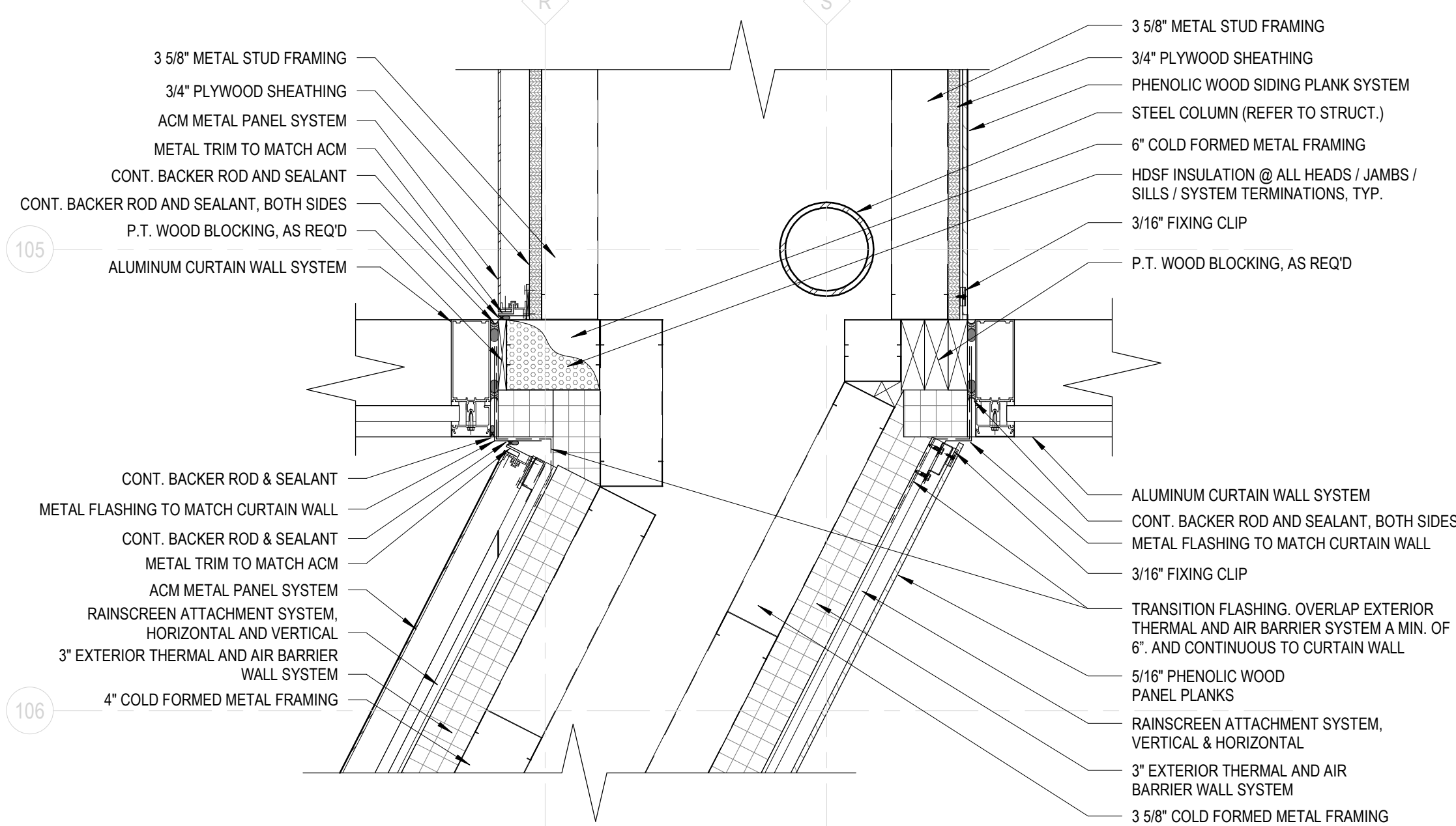
11 PLAN DETAIL - CW @ BLDG C
1 1/2" = 1'-0"



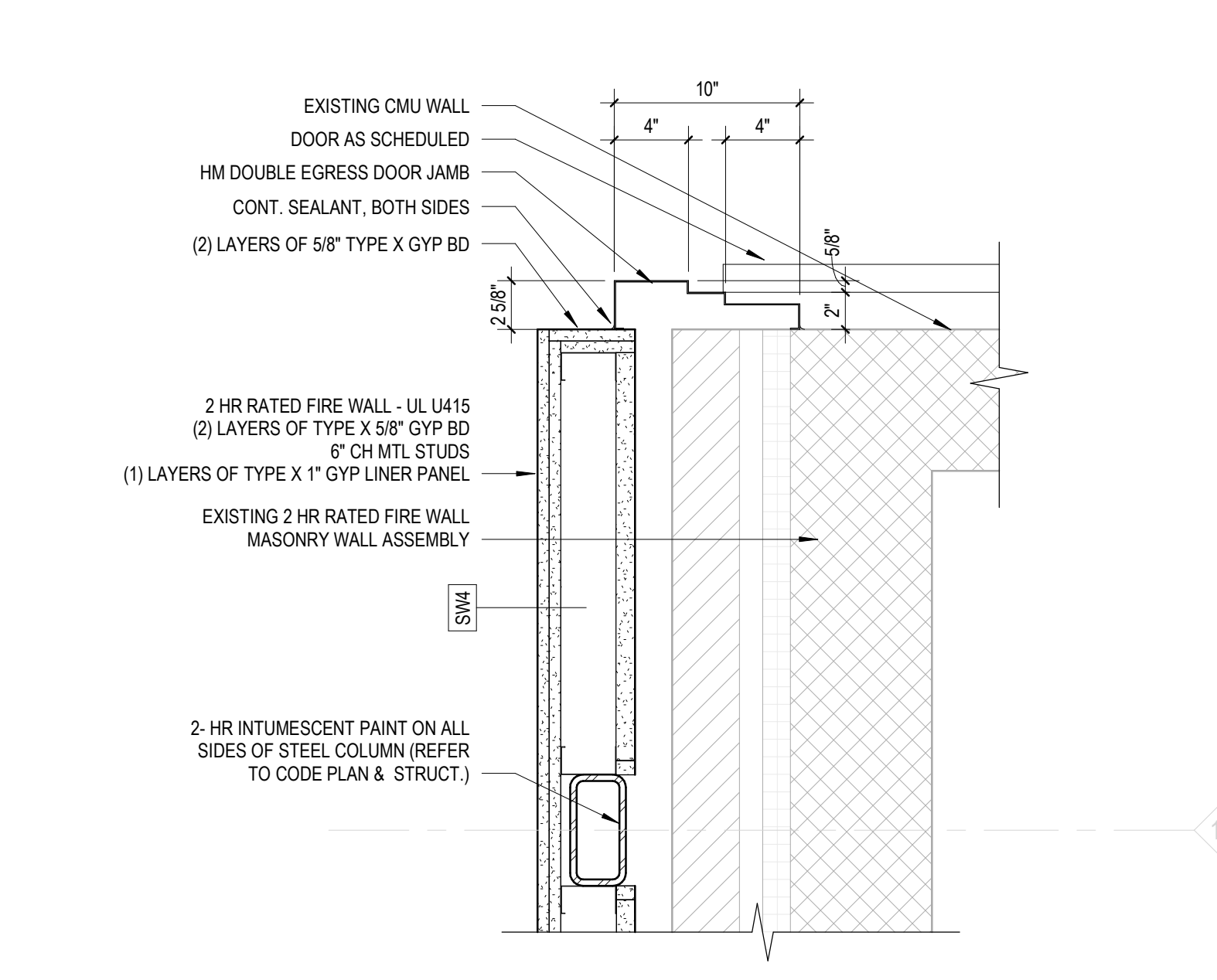
15 PLAN DETAIL - COL HH-102
1 1/2" = 1'-0"



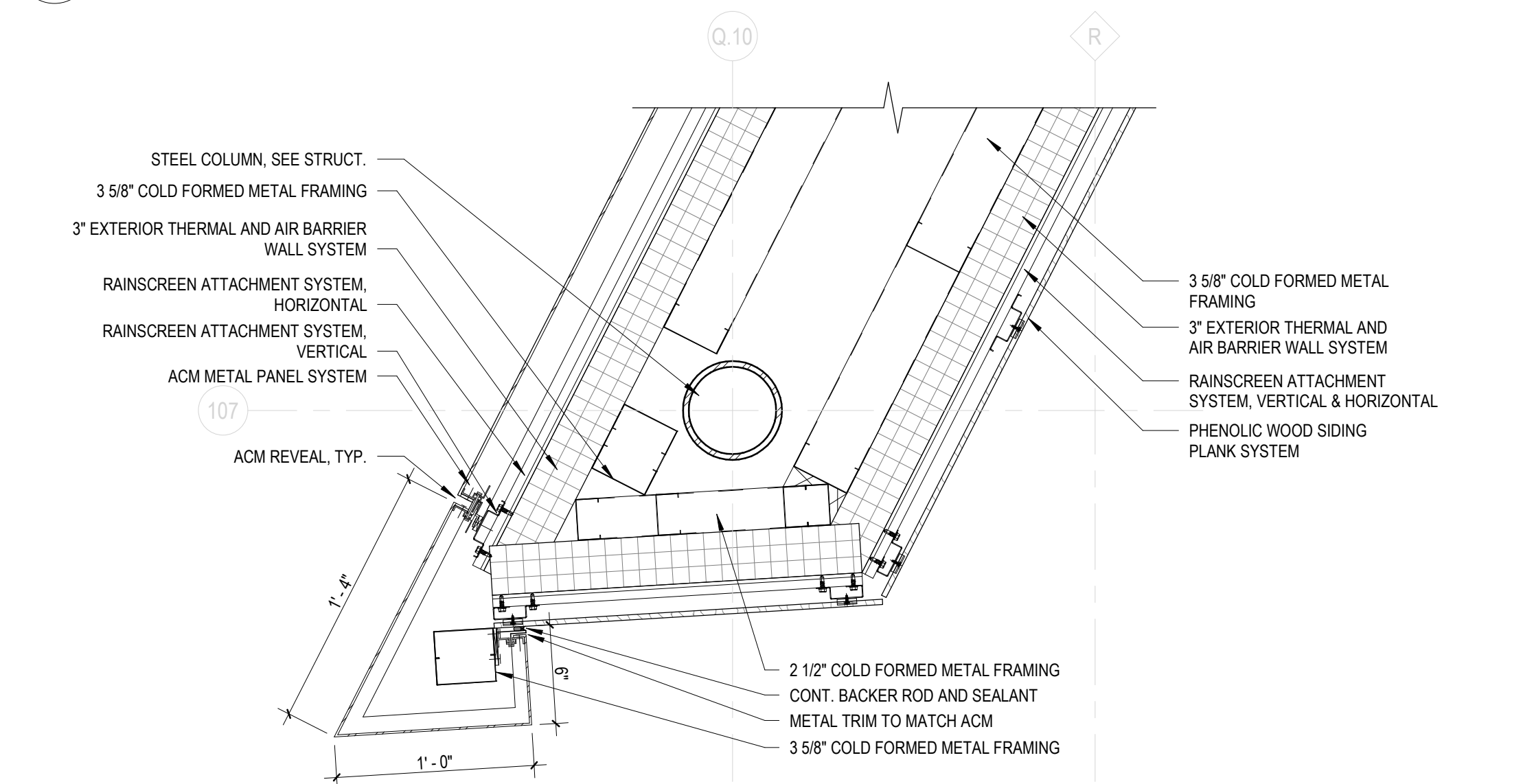
2 PLAN DETAIL - ENTRY WEST WALL
1 1/2" = 1'-0"



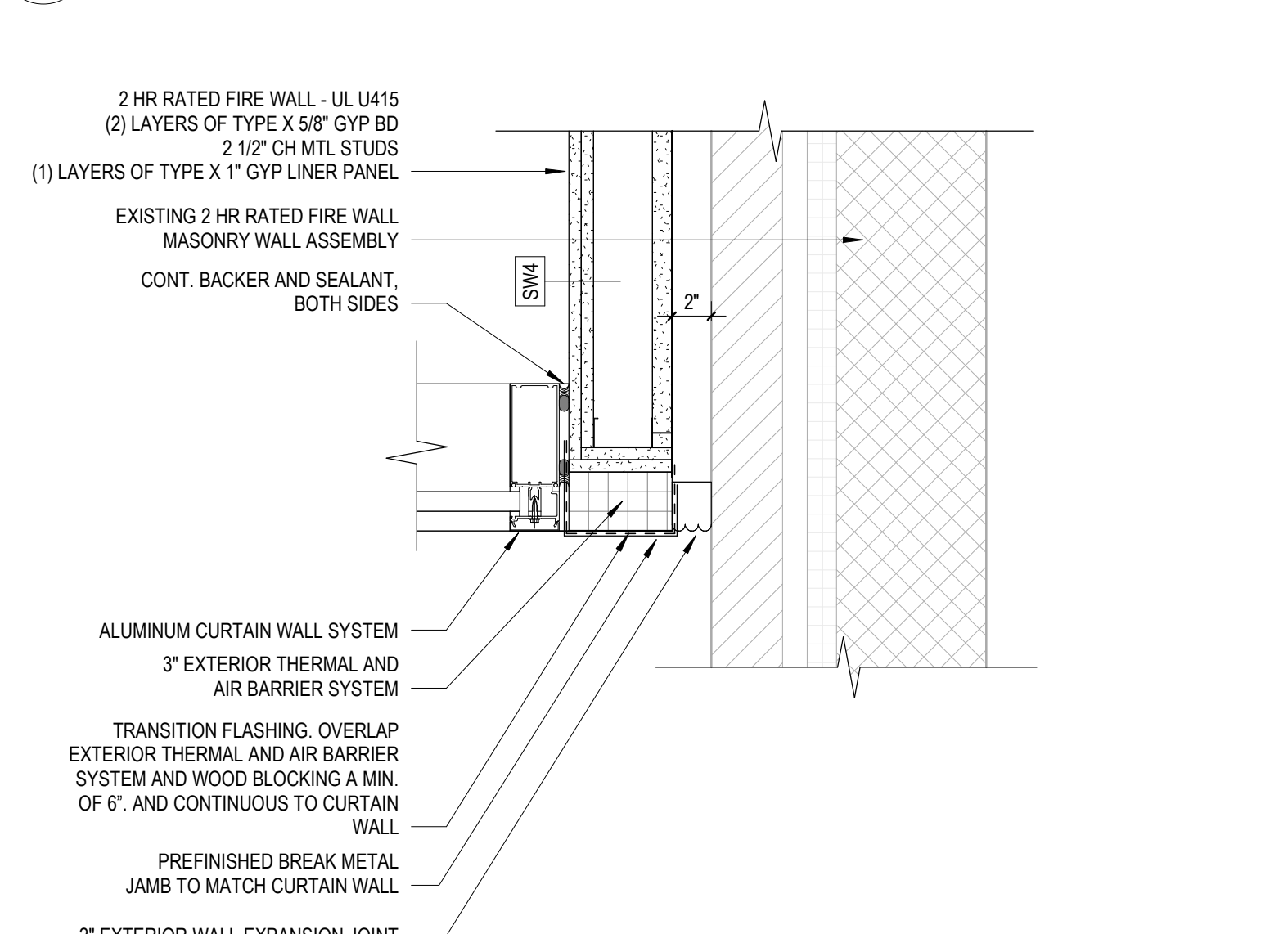
3 PLAN DETAIL - SHAFT WALL CONNECTION
1 1/2" = 1'-0"



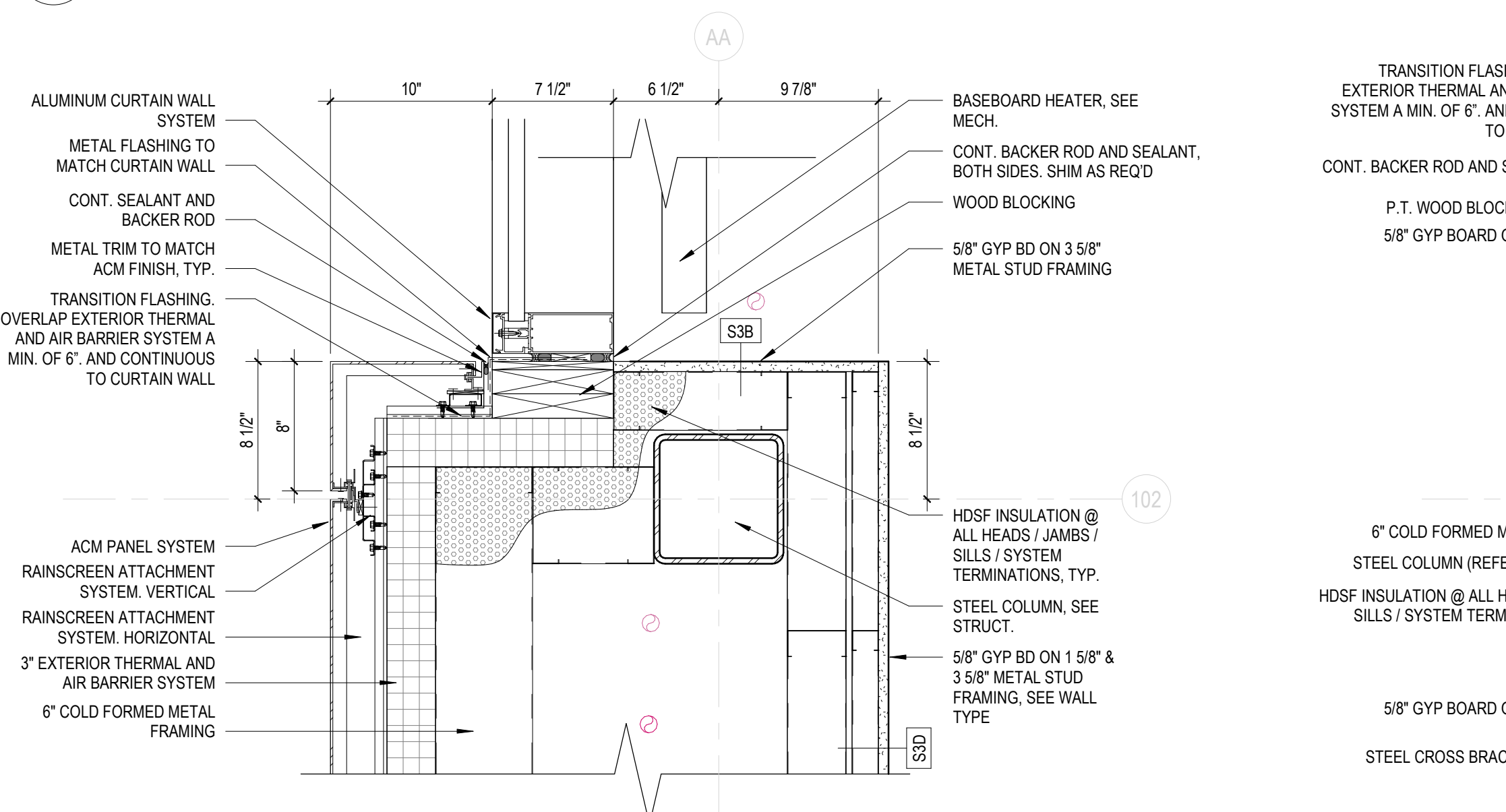
6 PLAN DETAIL - CW JAMB AT WING WALL
1 1/2" = 1'-0"



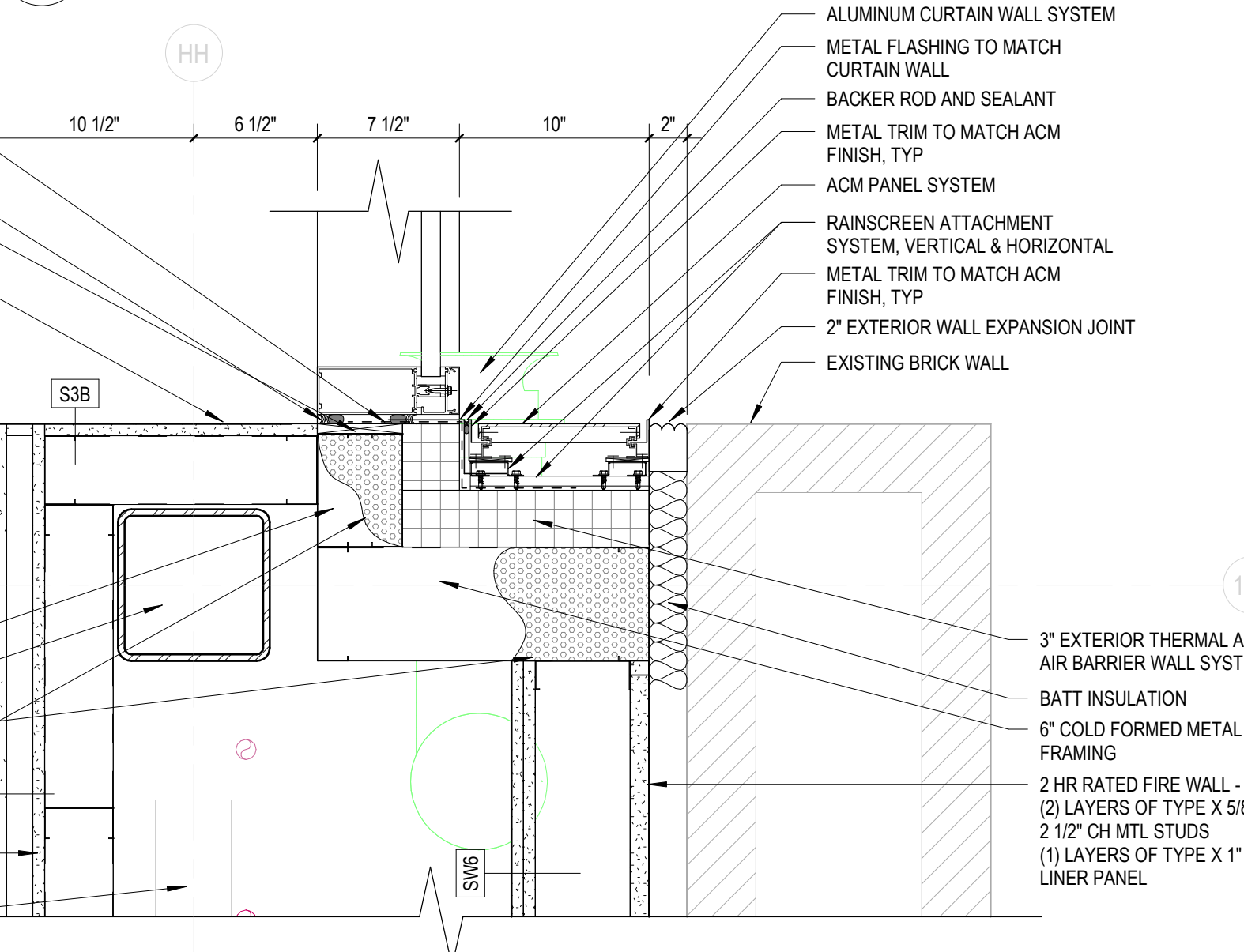
7 PLAN DETAIL - CONNECTING LINK TO BLDG C
1 1/2" = 1'-0"



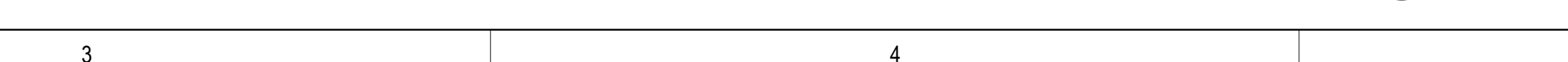
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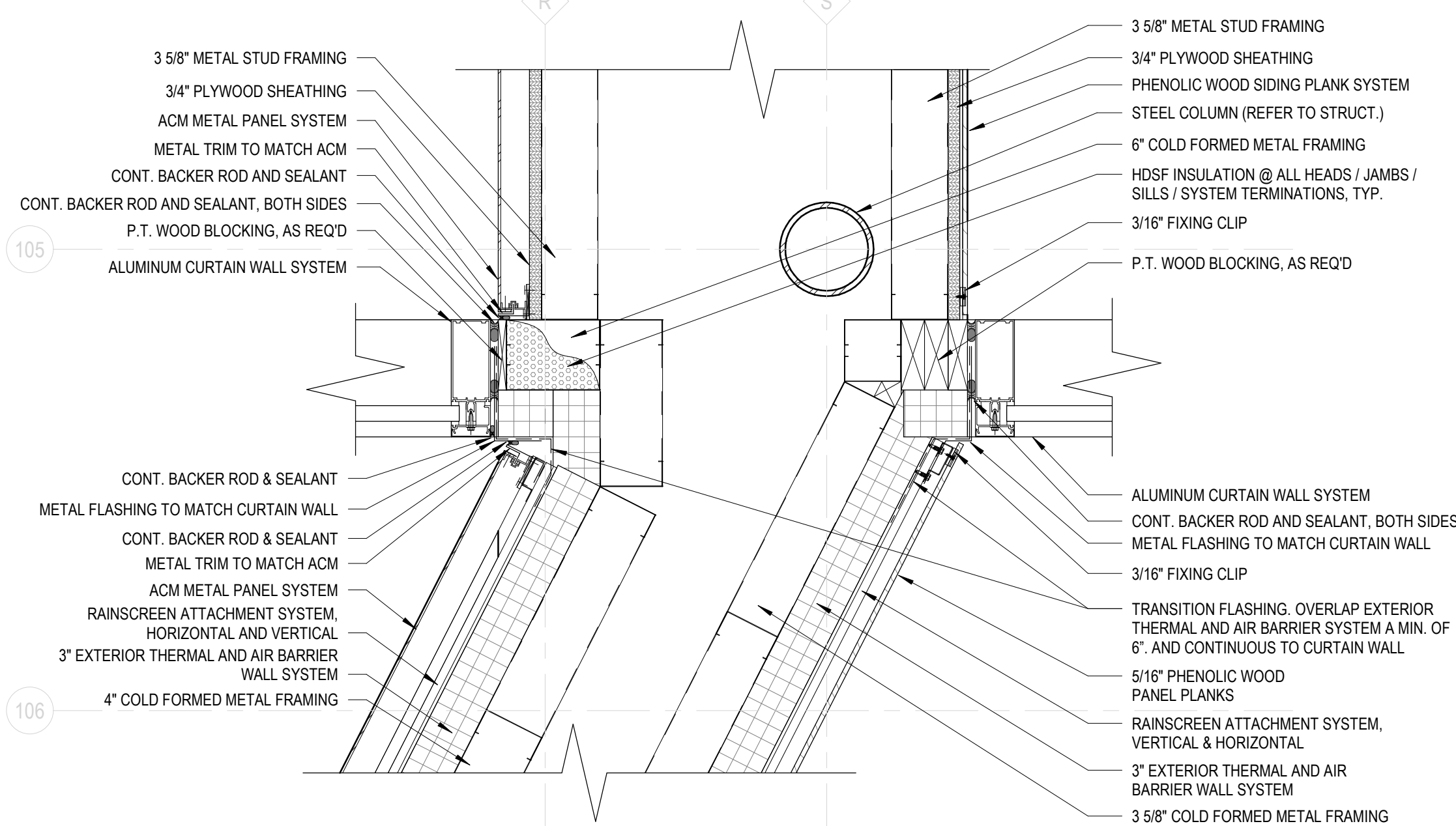
11 PLAN DETAIL - CW @ BLDG C
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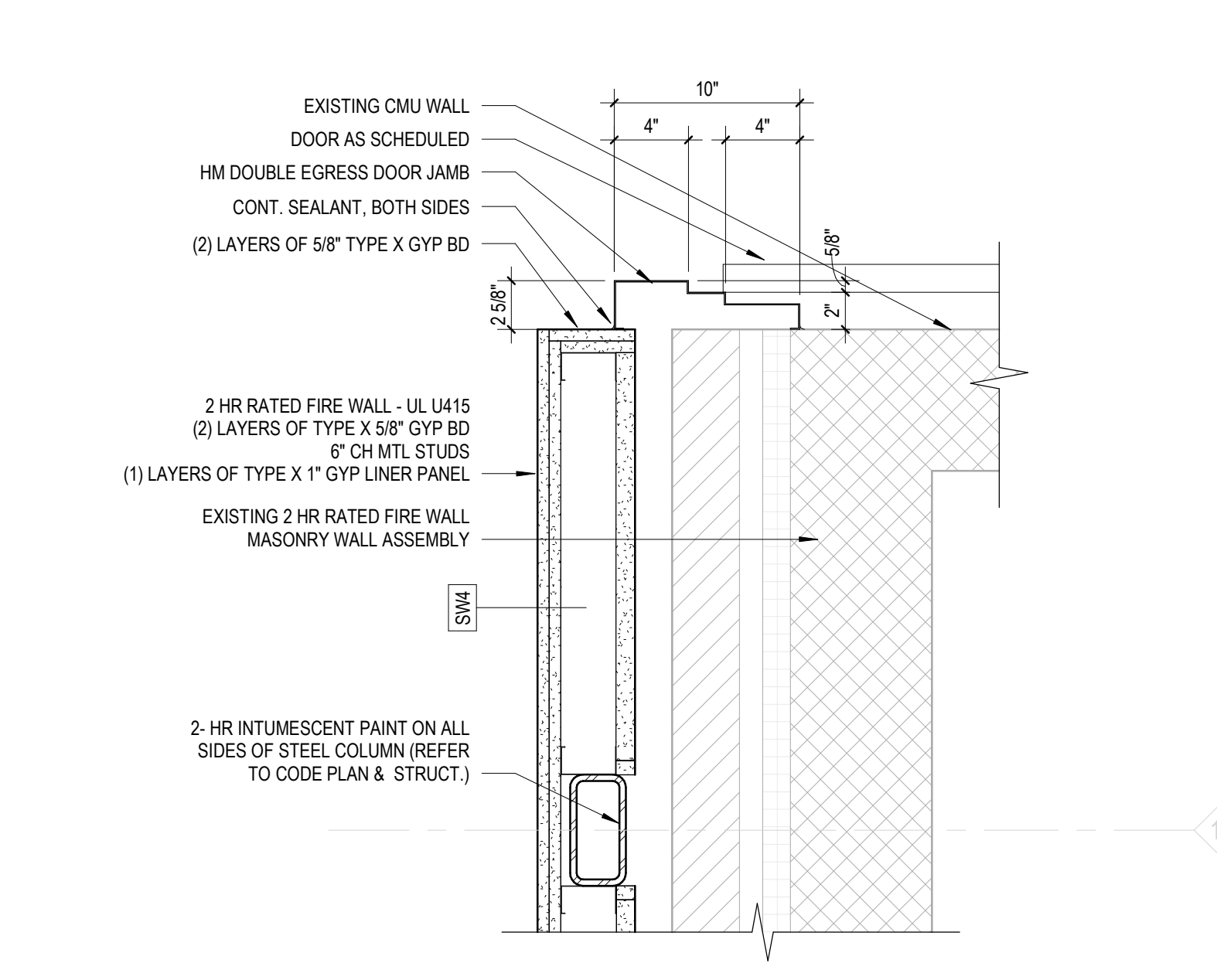
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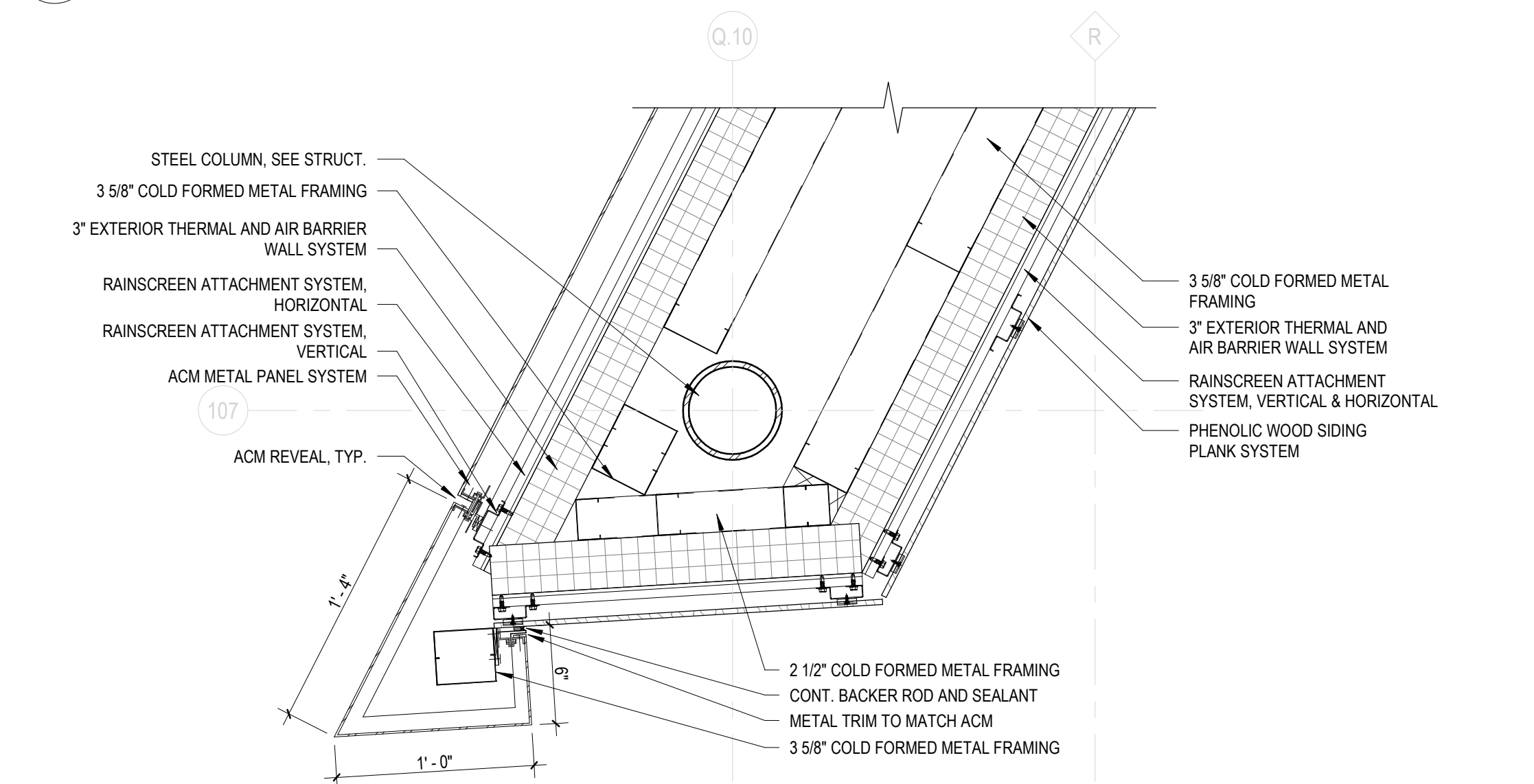
2 PLAN DETAIL - ENTRY WEST WALL
1 1/2" = 1'-0"



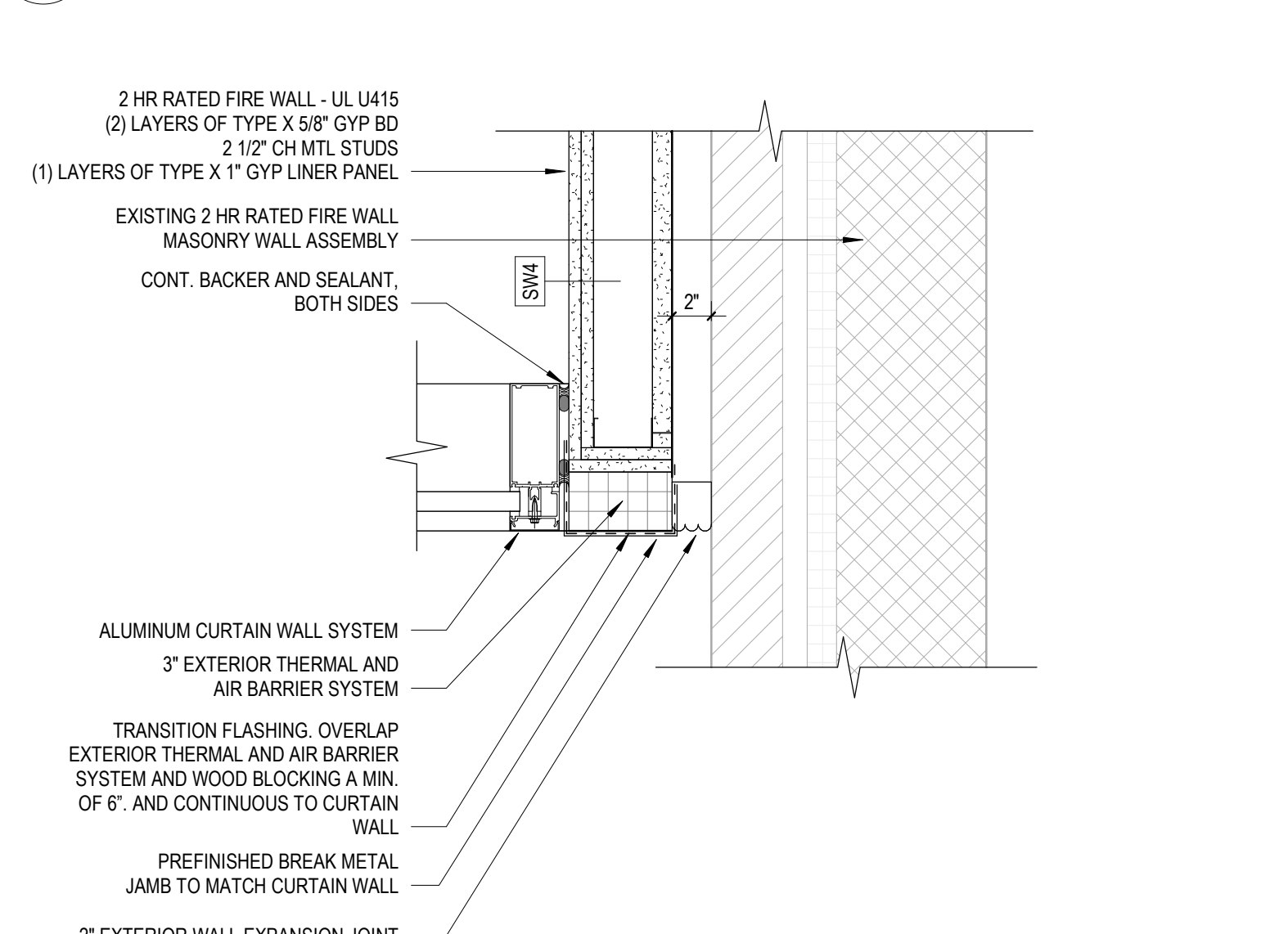
3 PLAN DETAIL - SHAFT WALL CONNECTION
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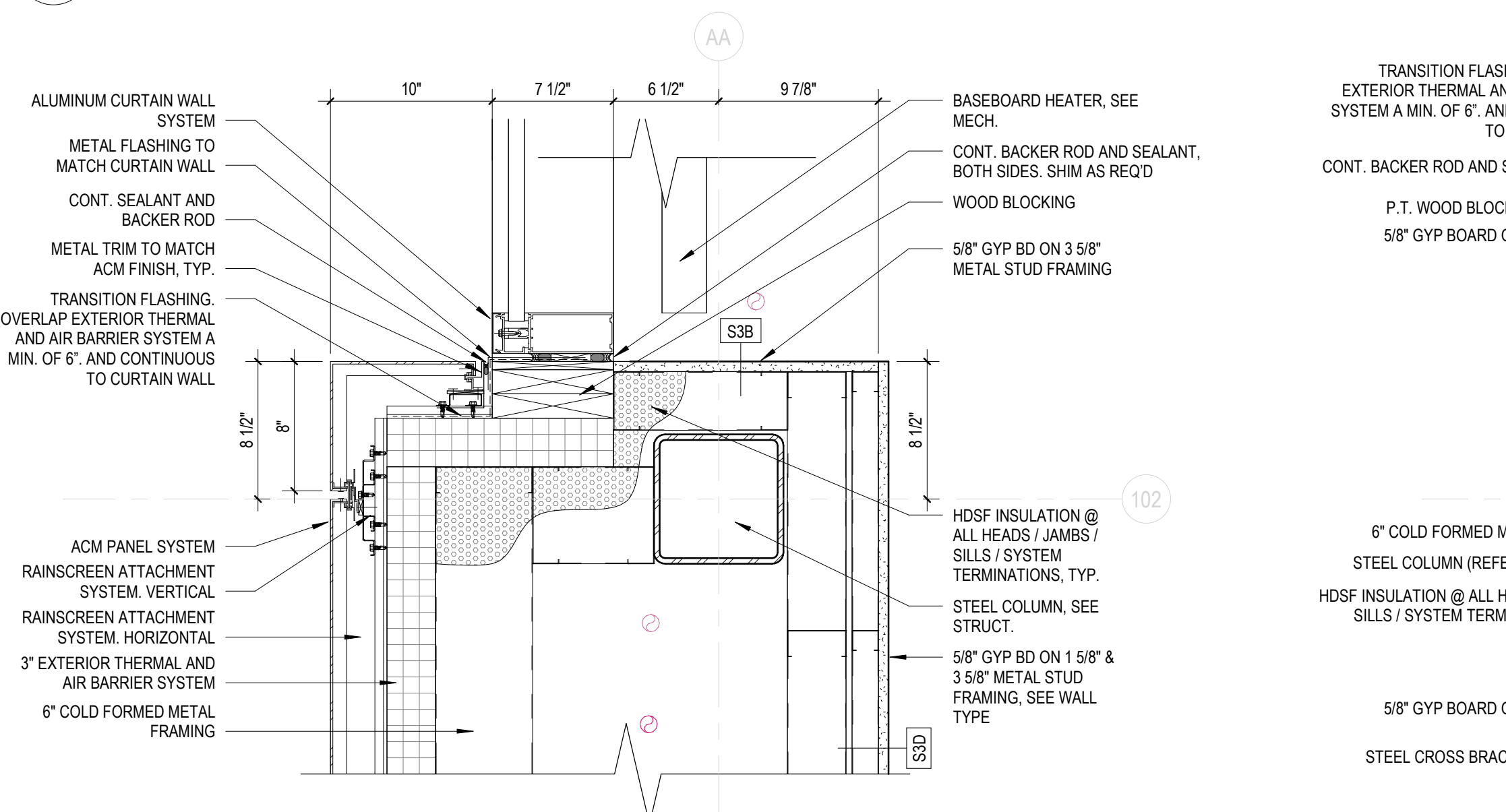
6 PLAN DETAIL - CW JAMB AT WING WALL
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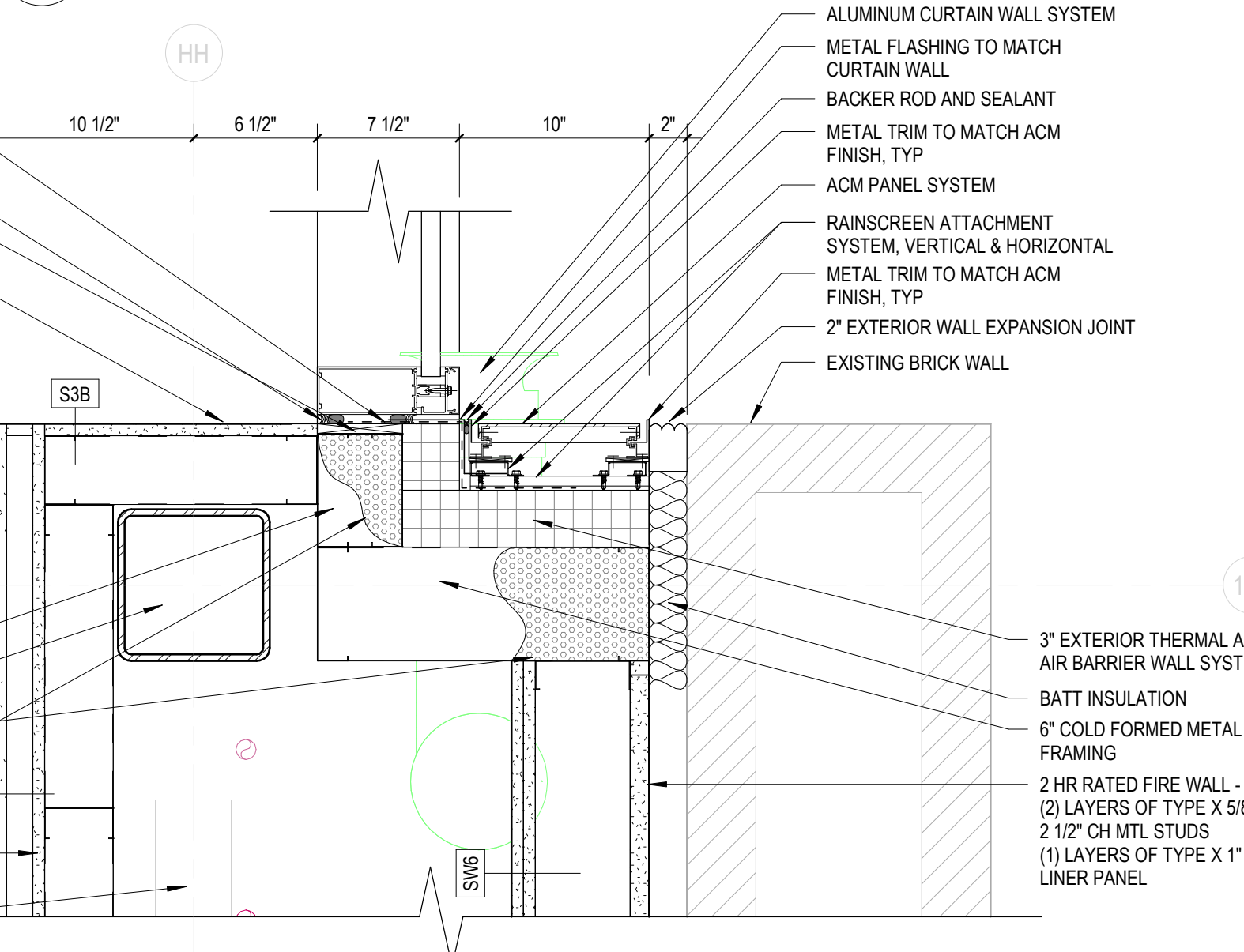
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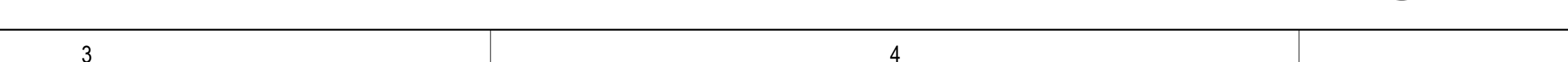
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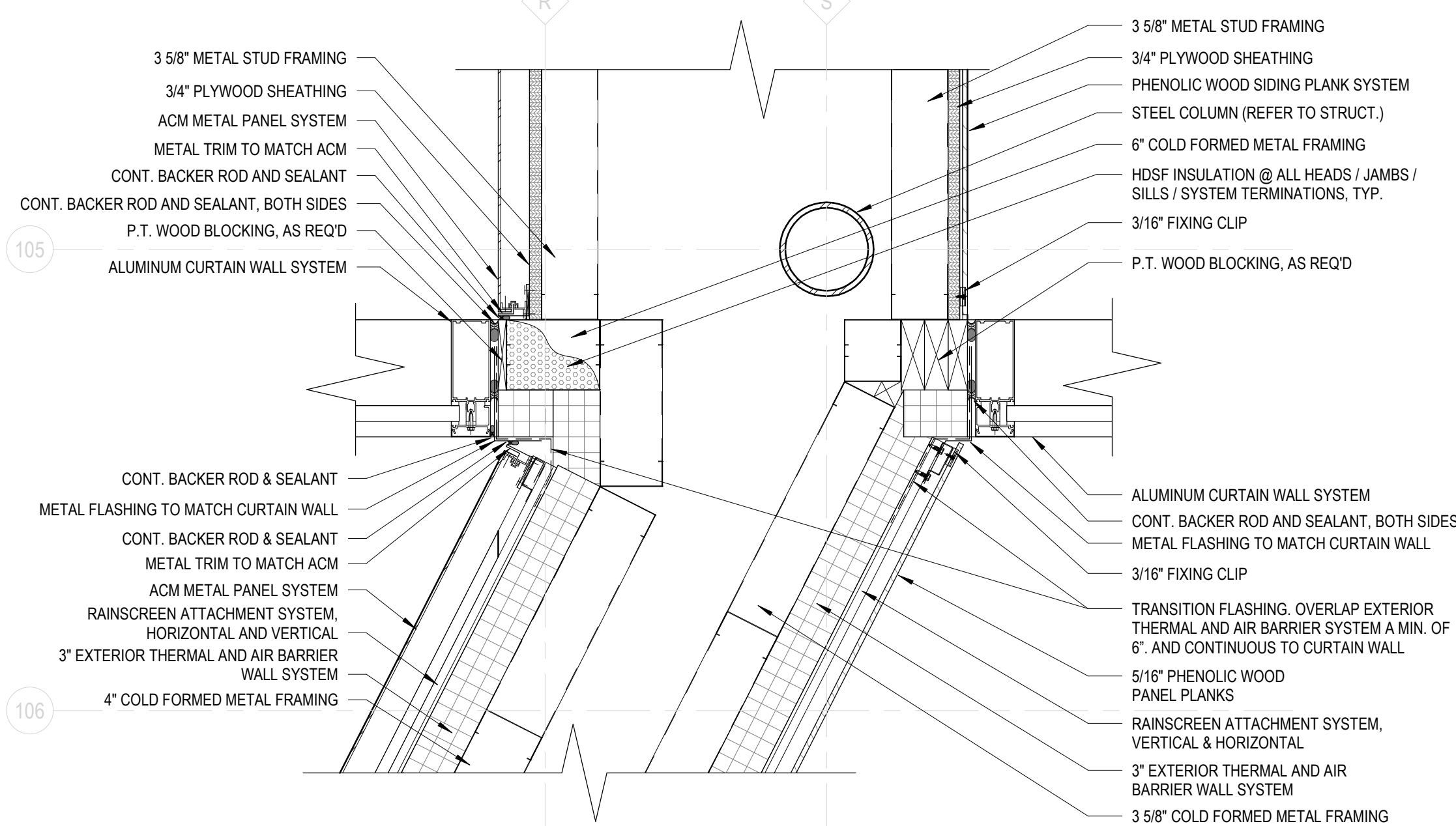
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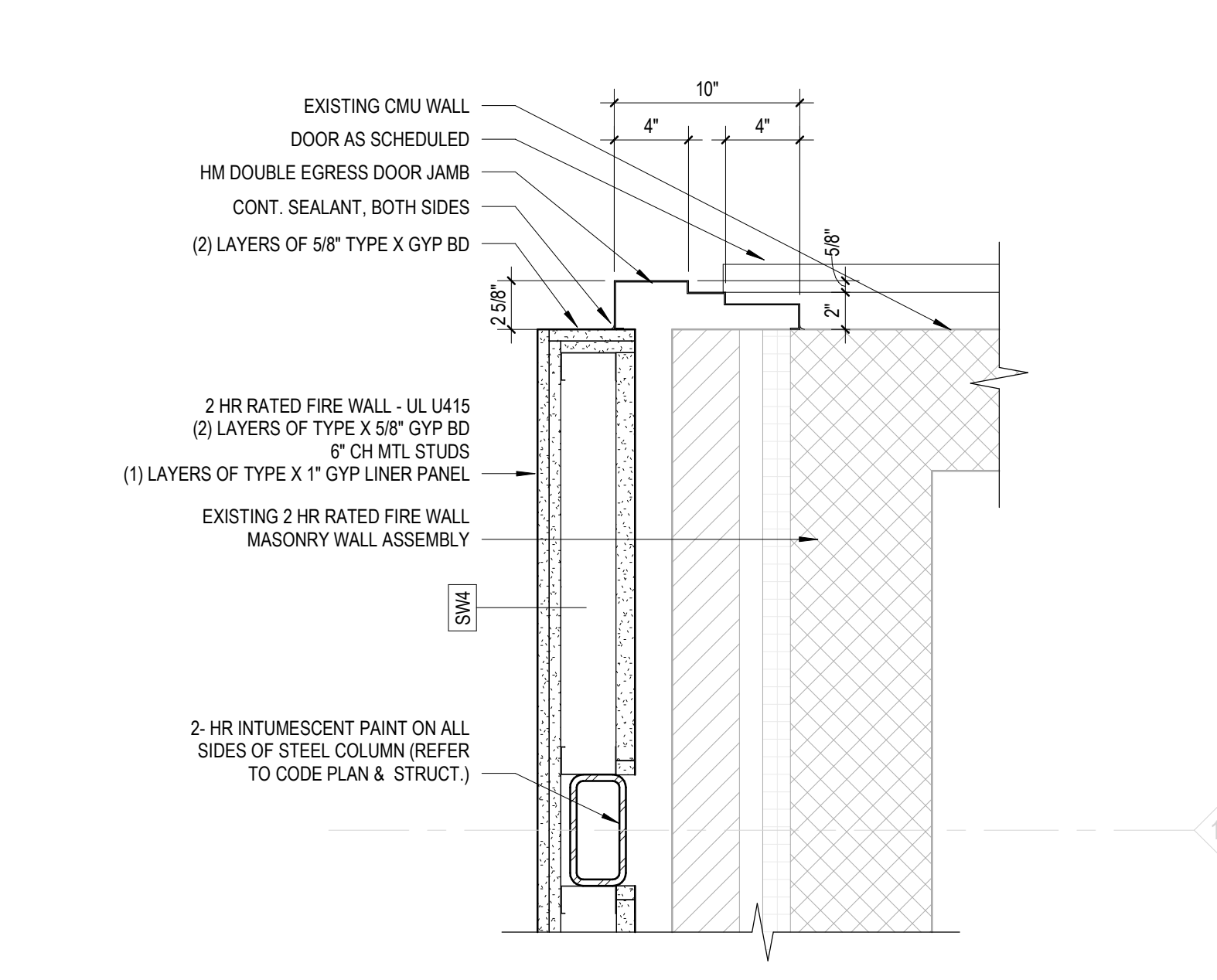
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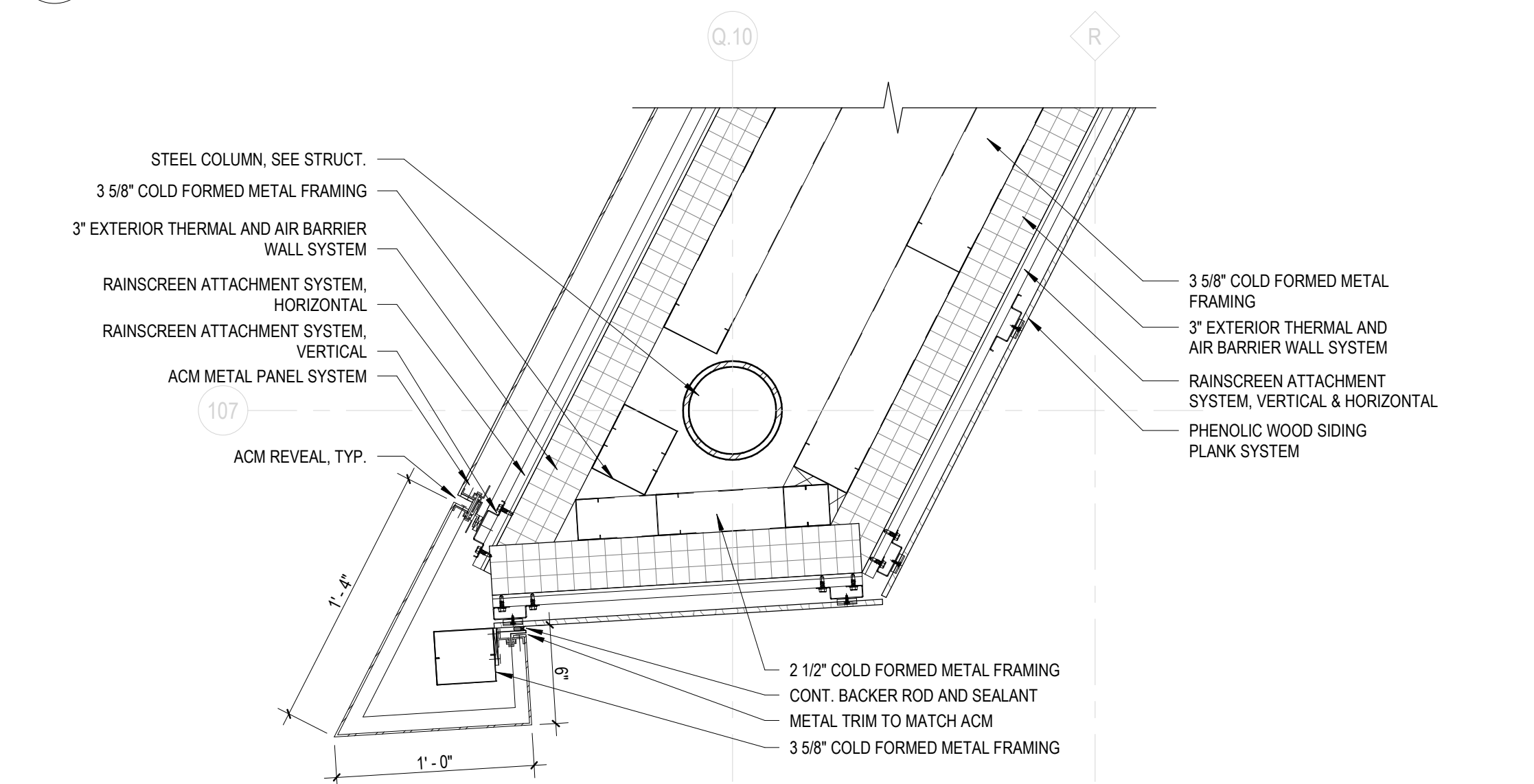
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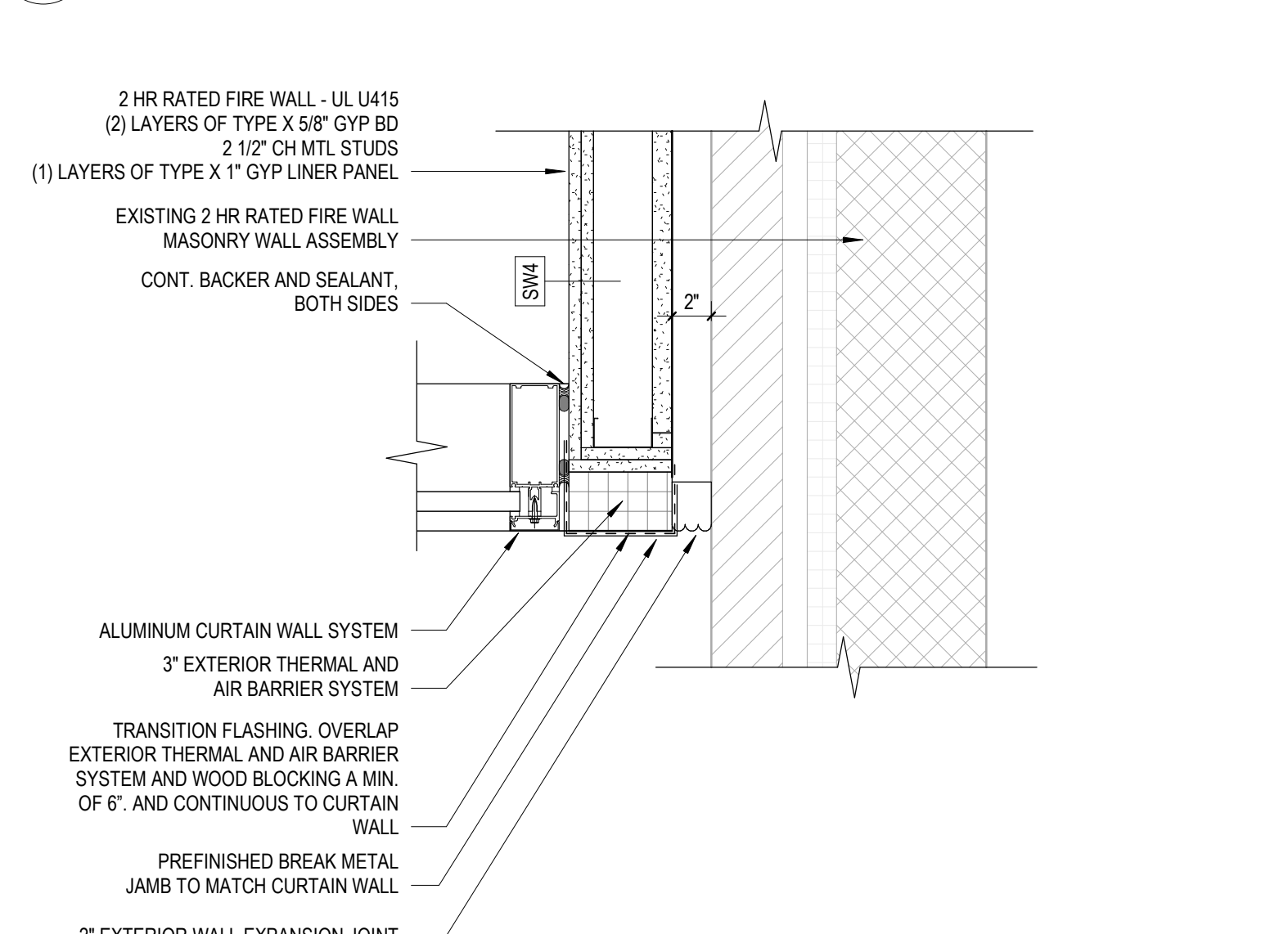
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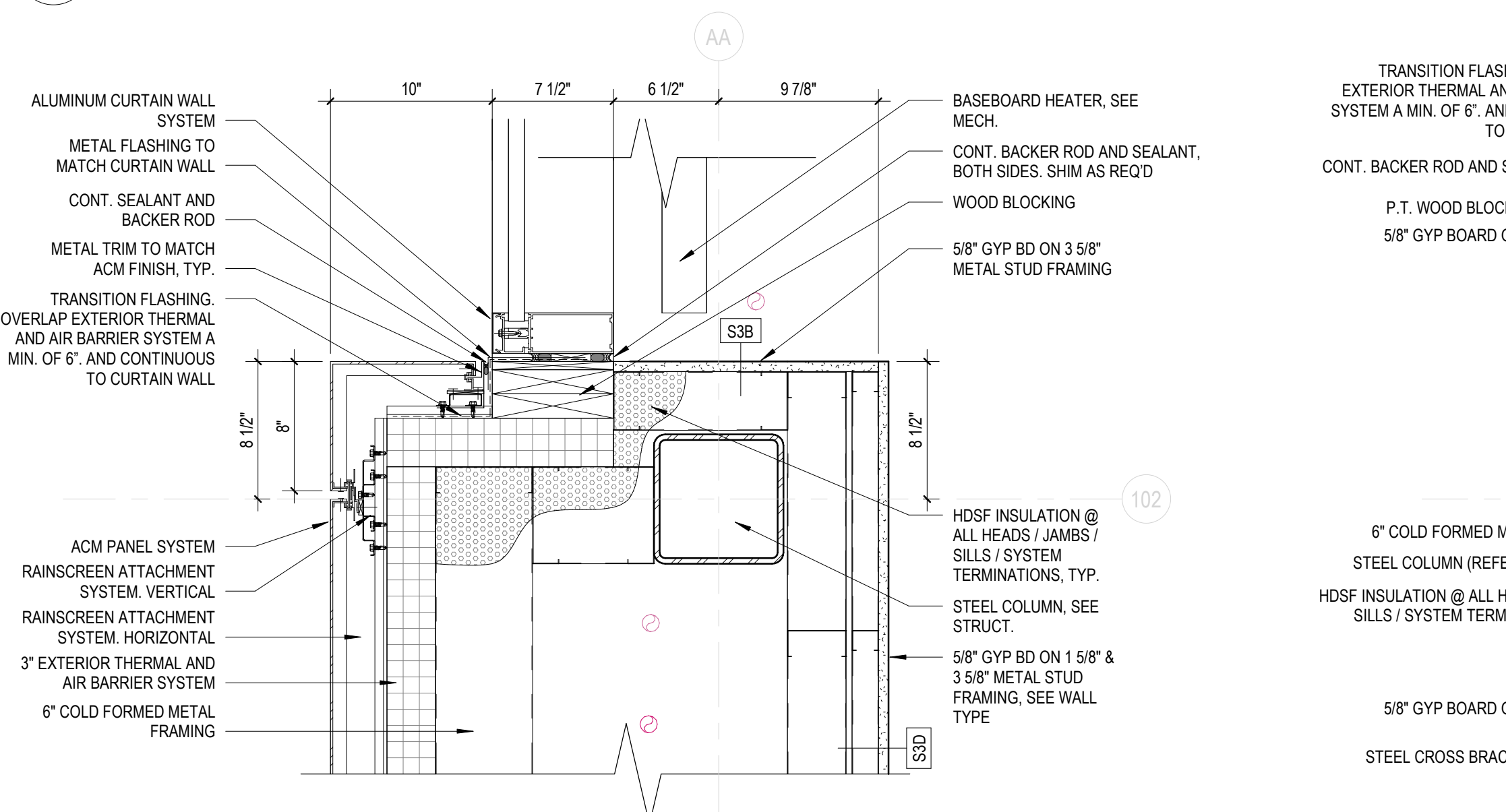
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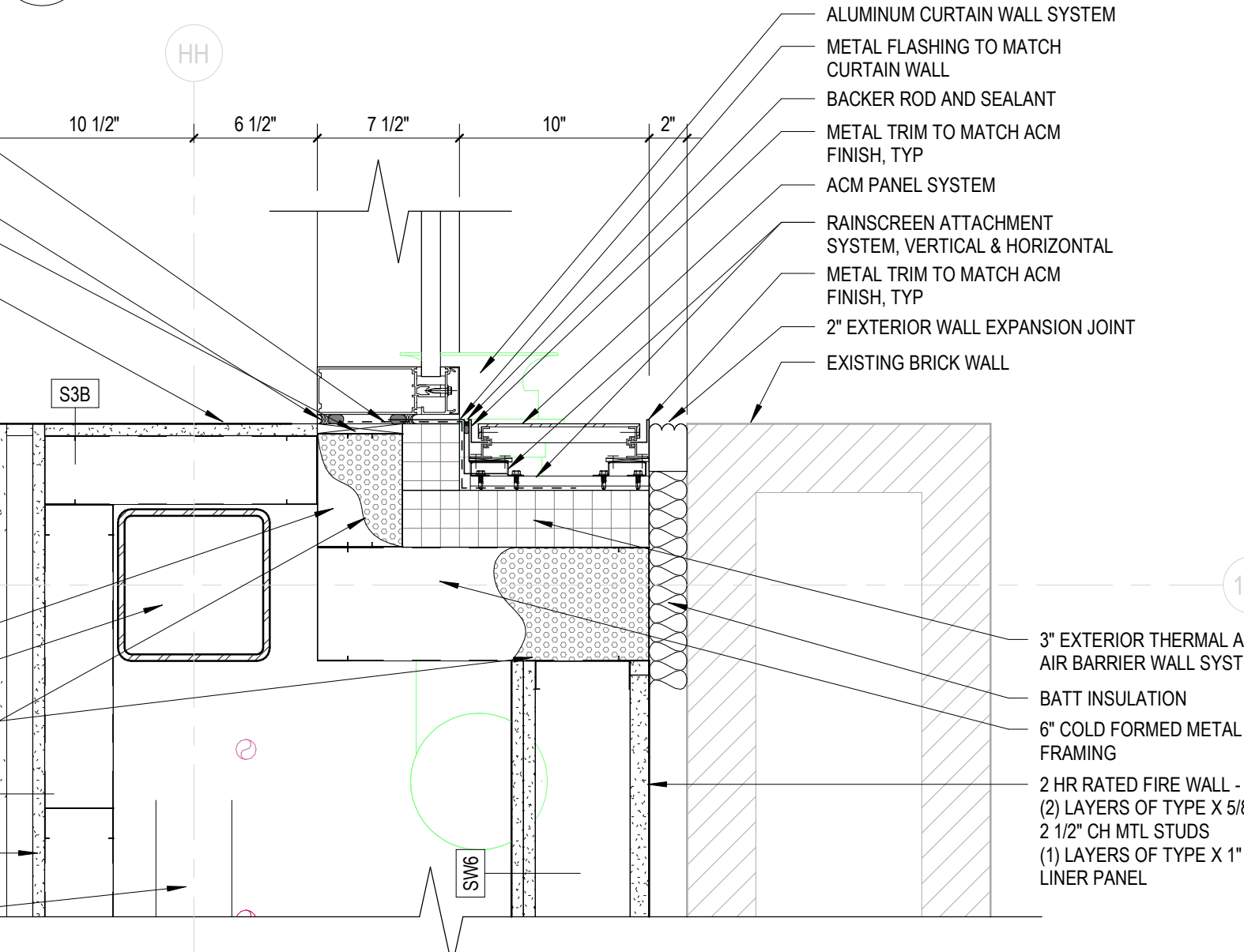
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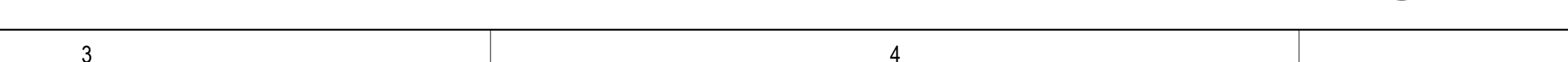
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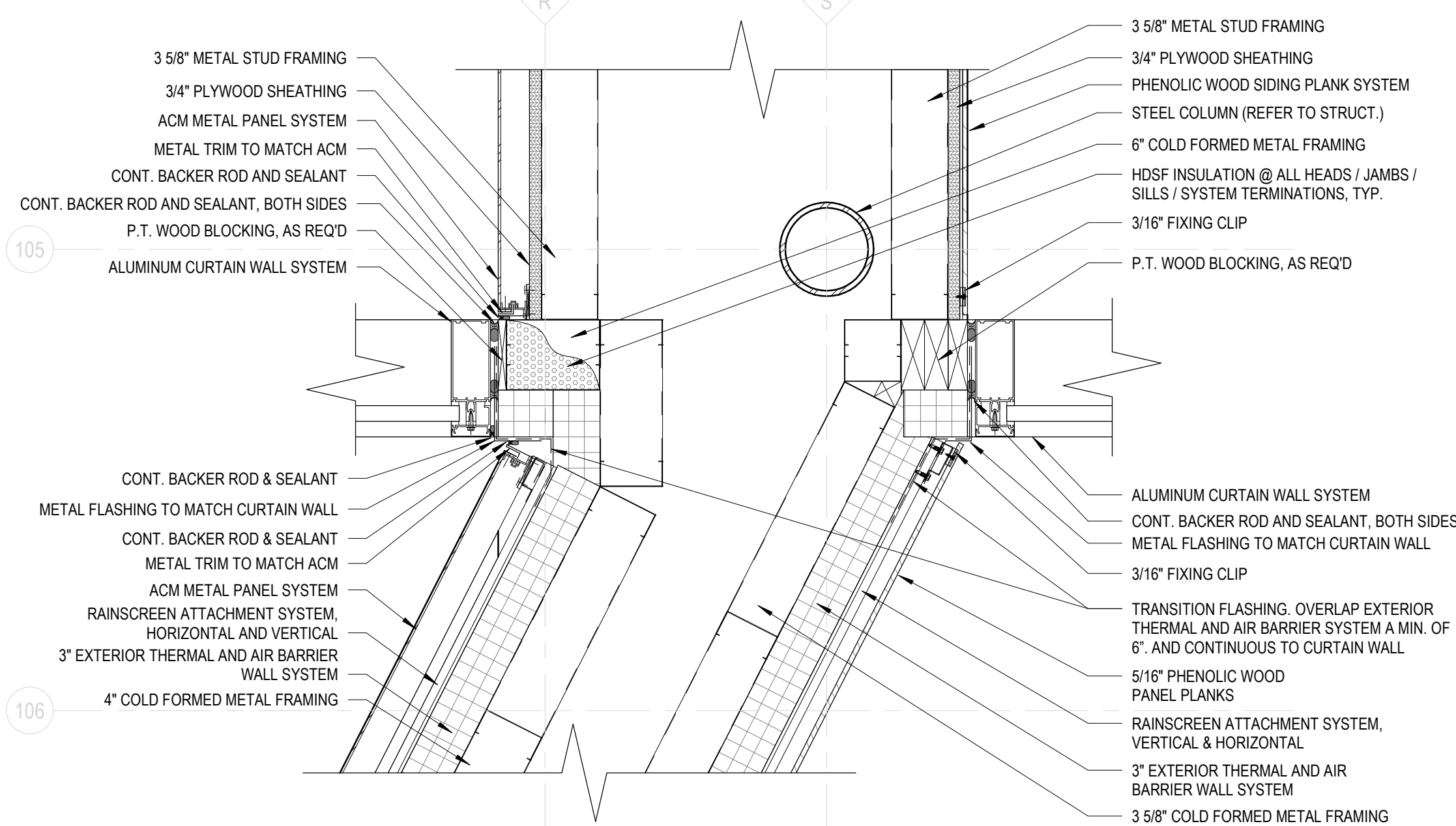
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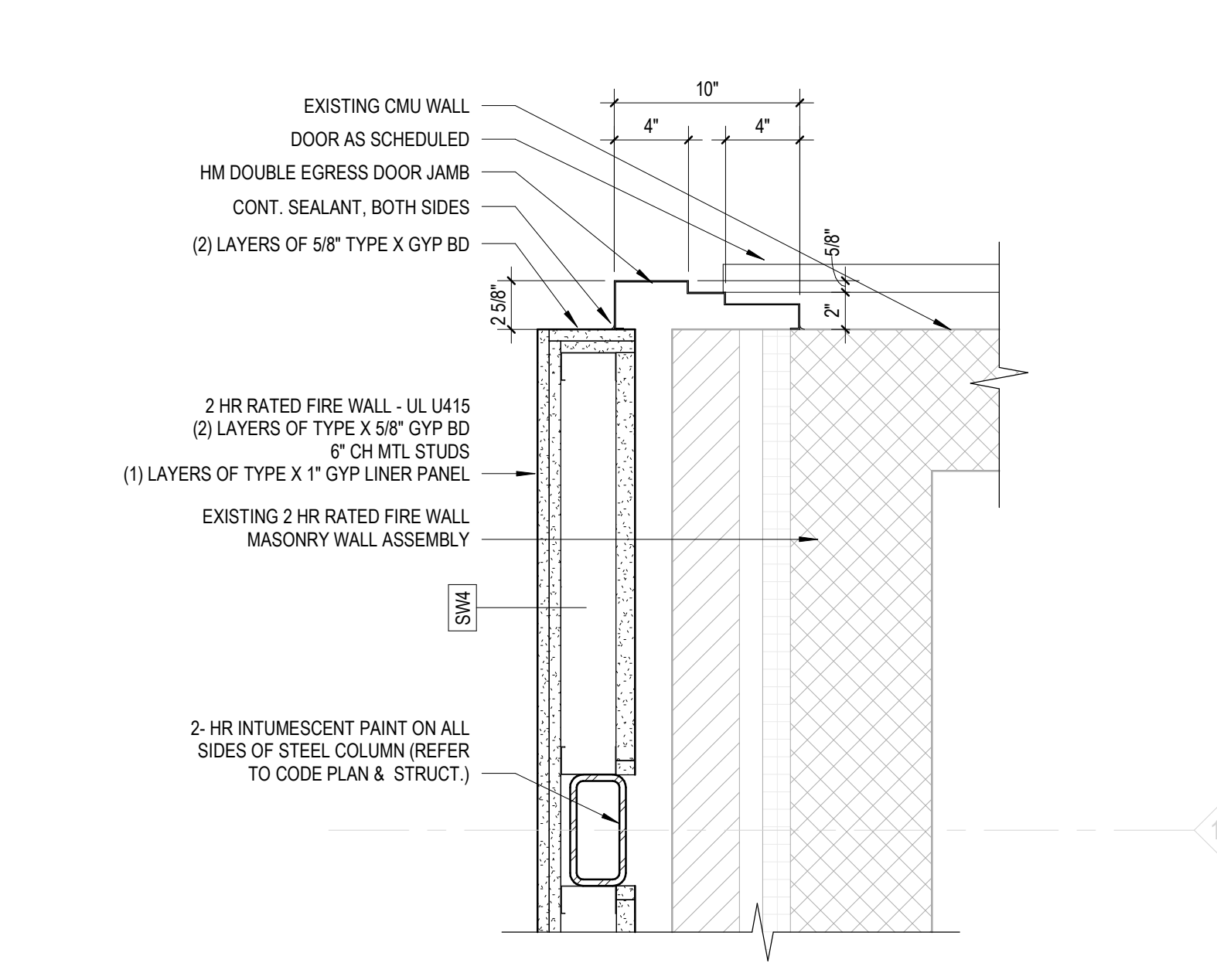
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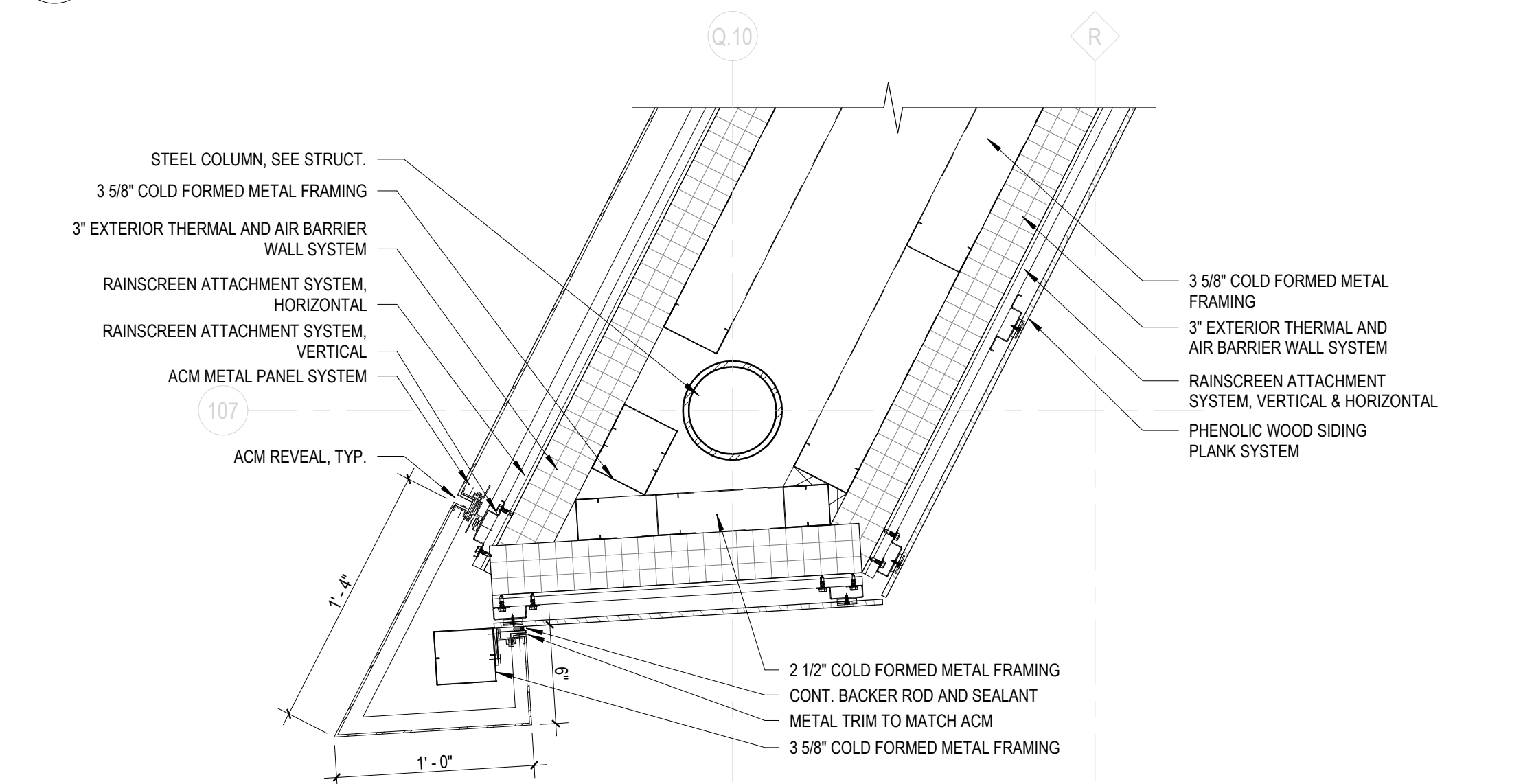
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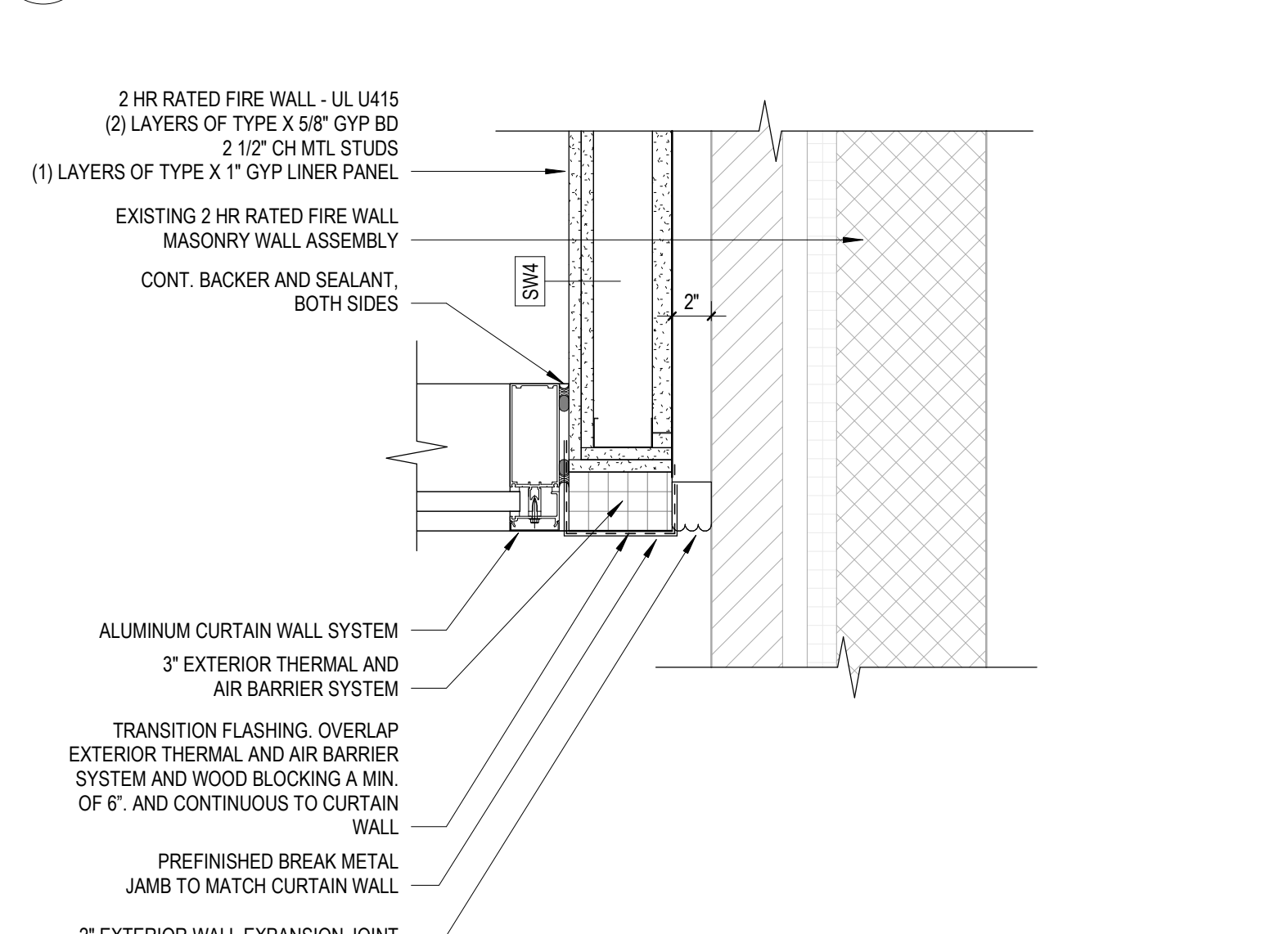
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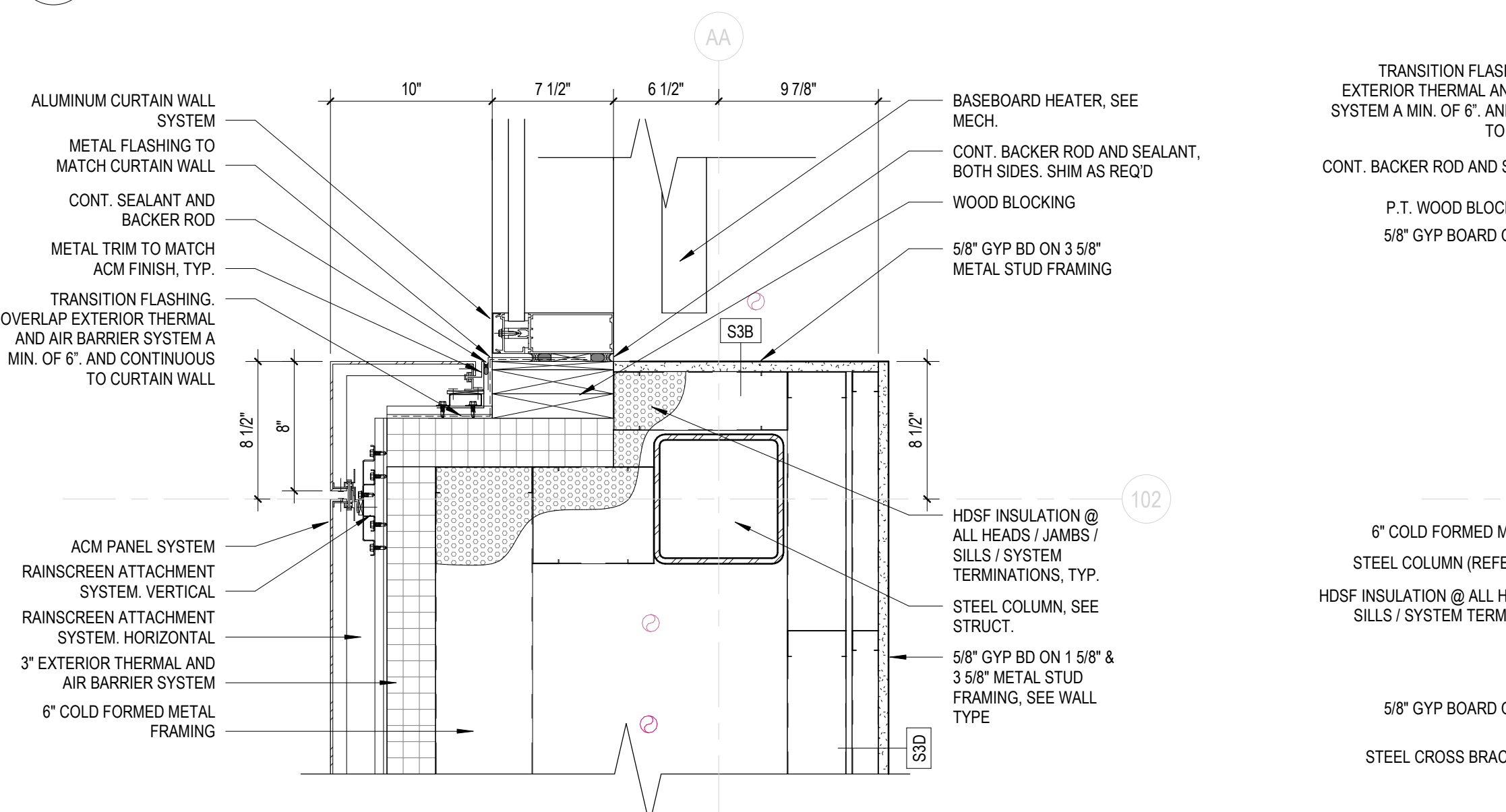
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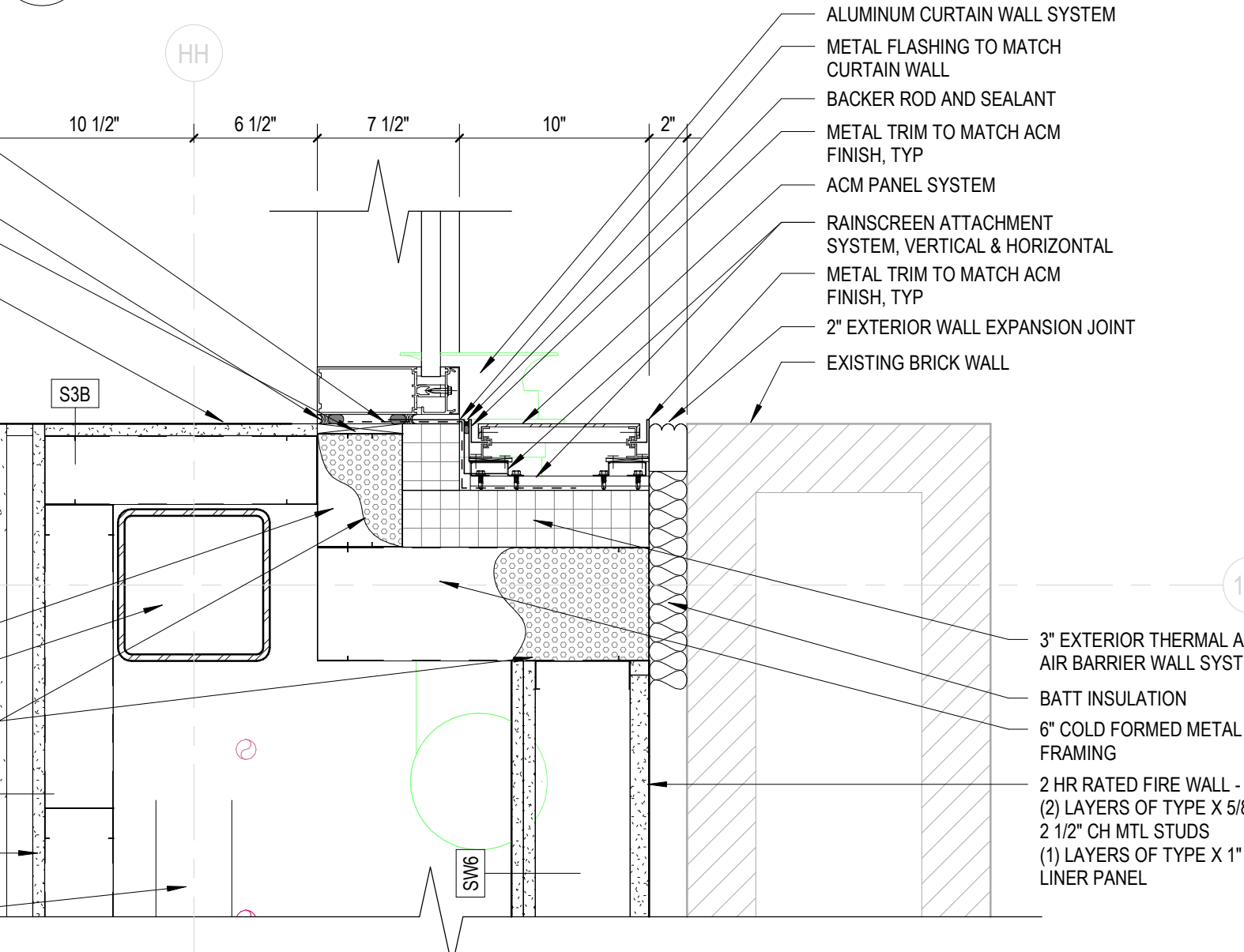
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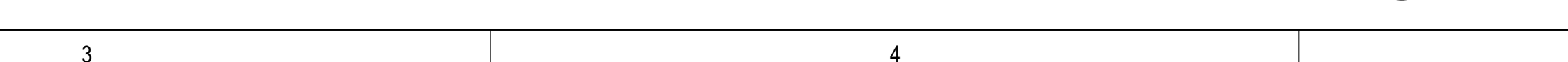
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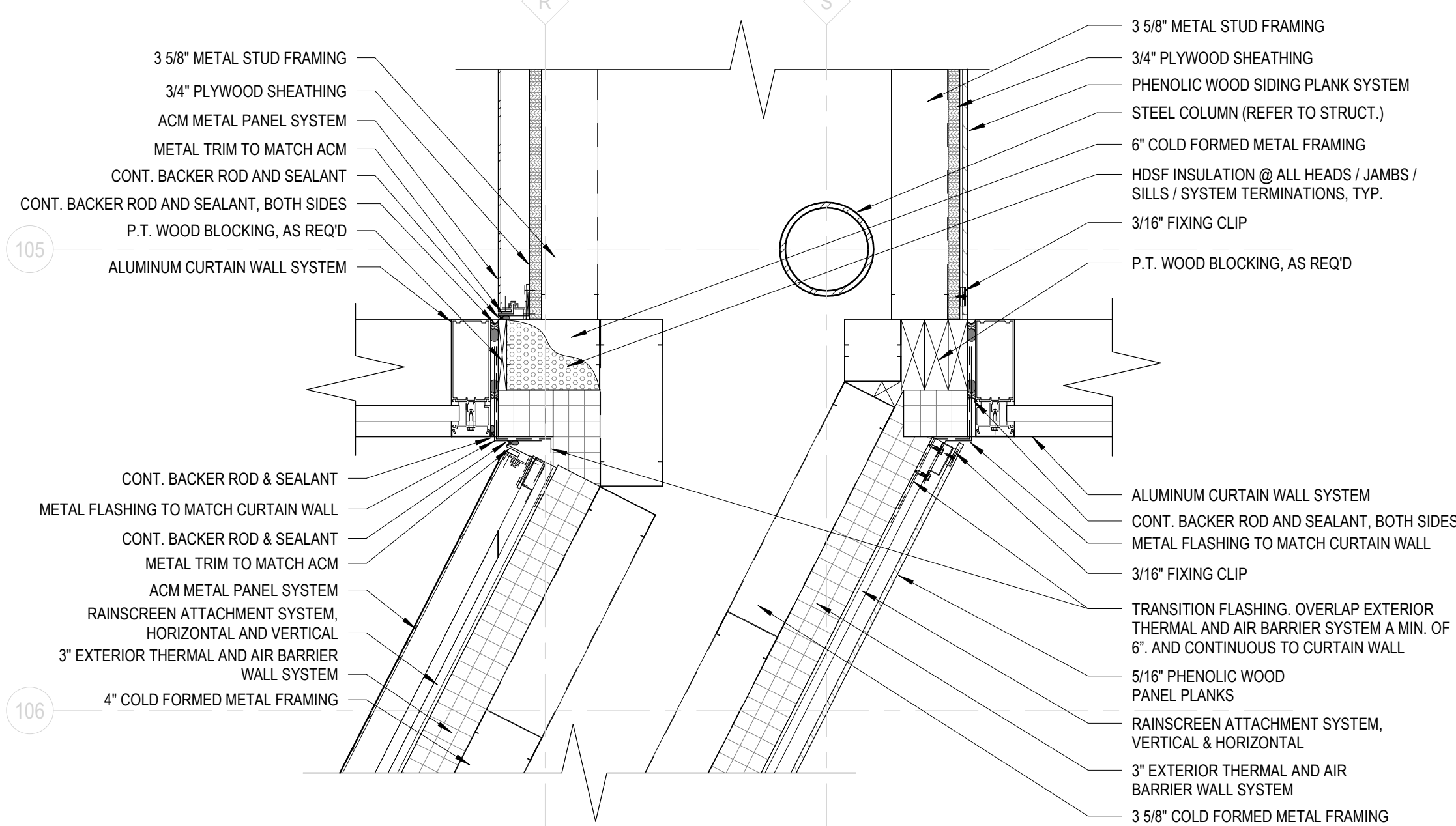
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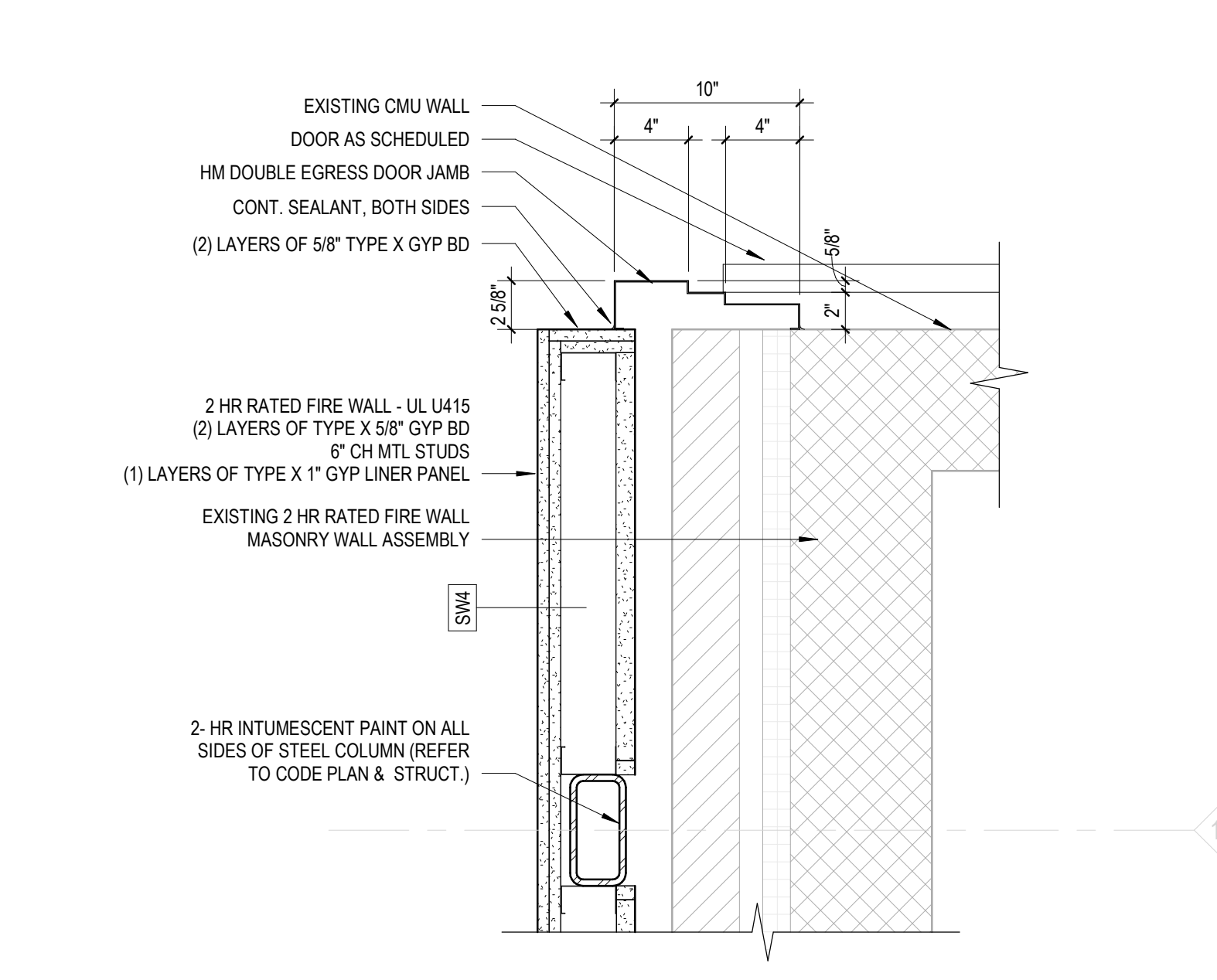
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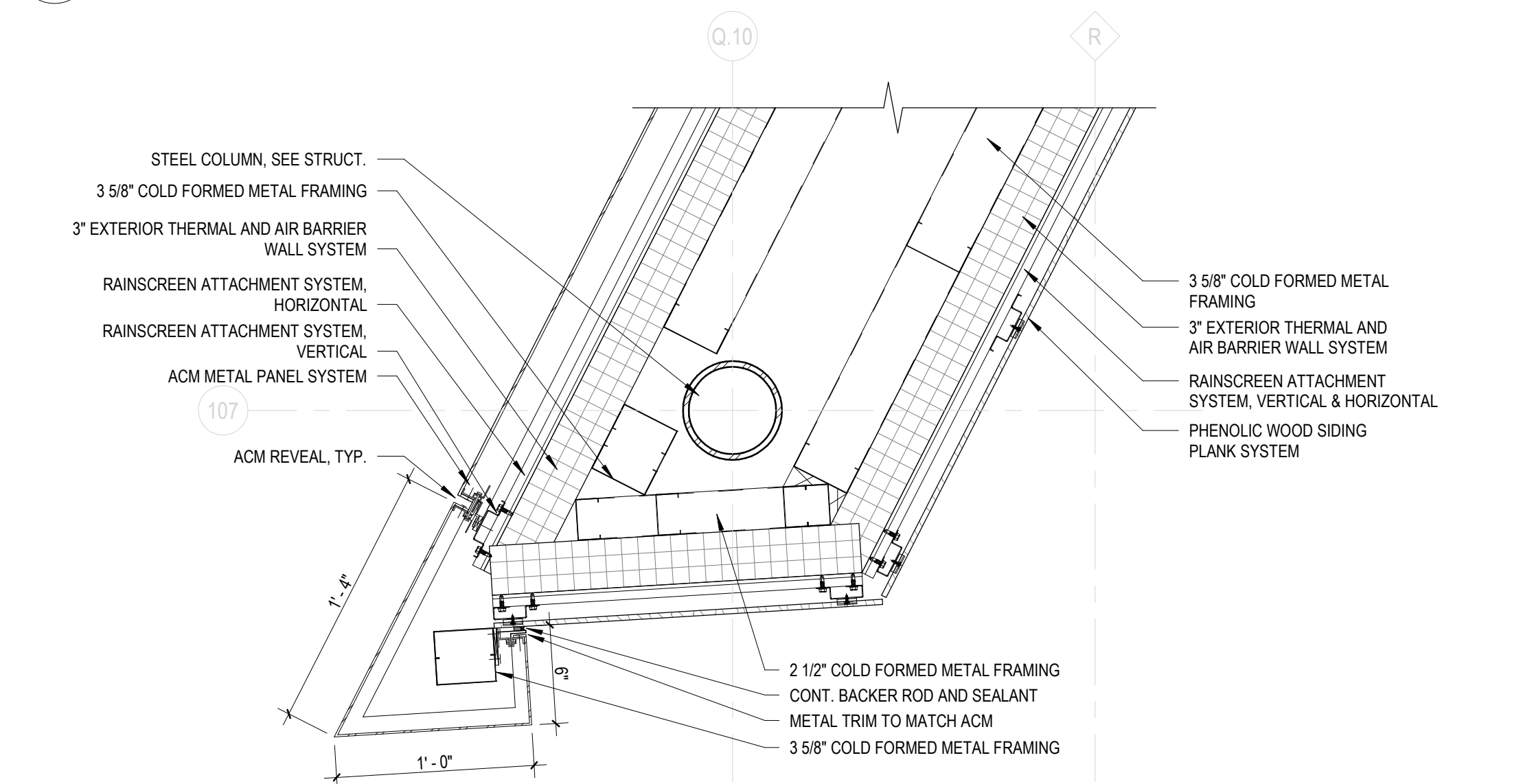
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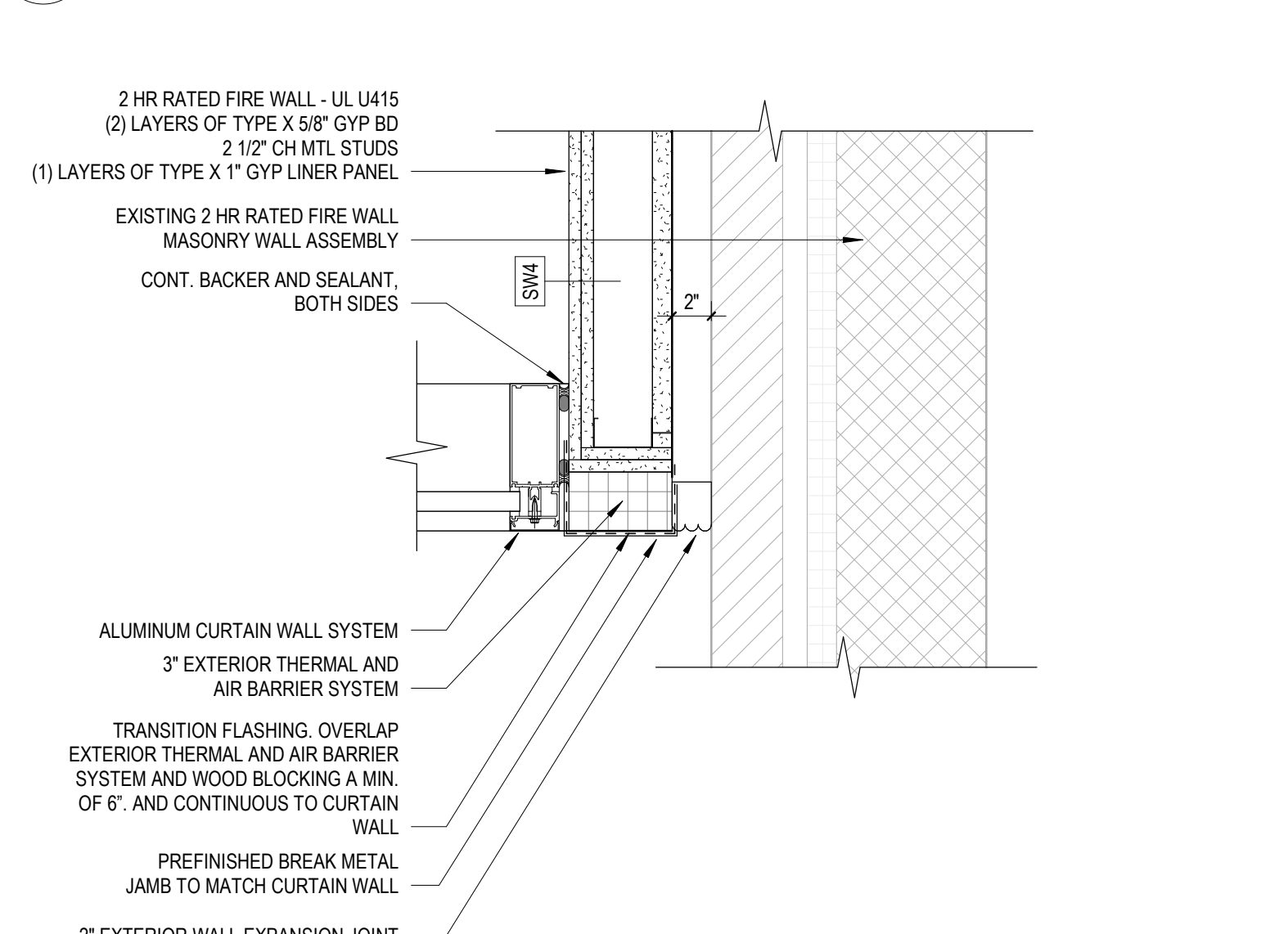
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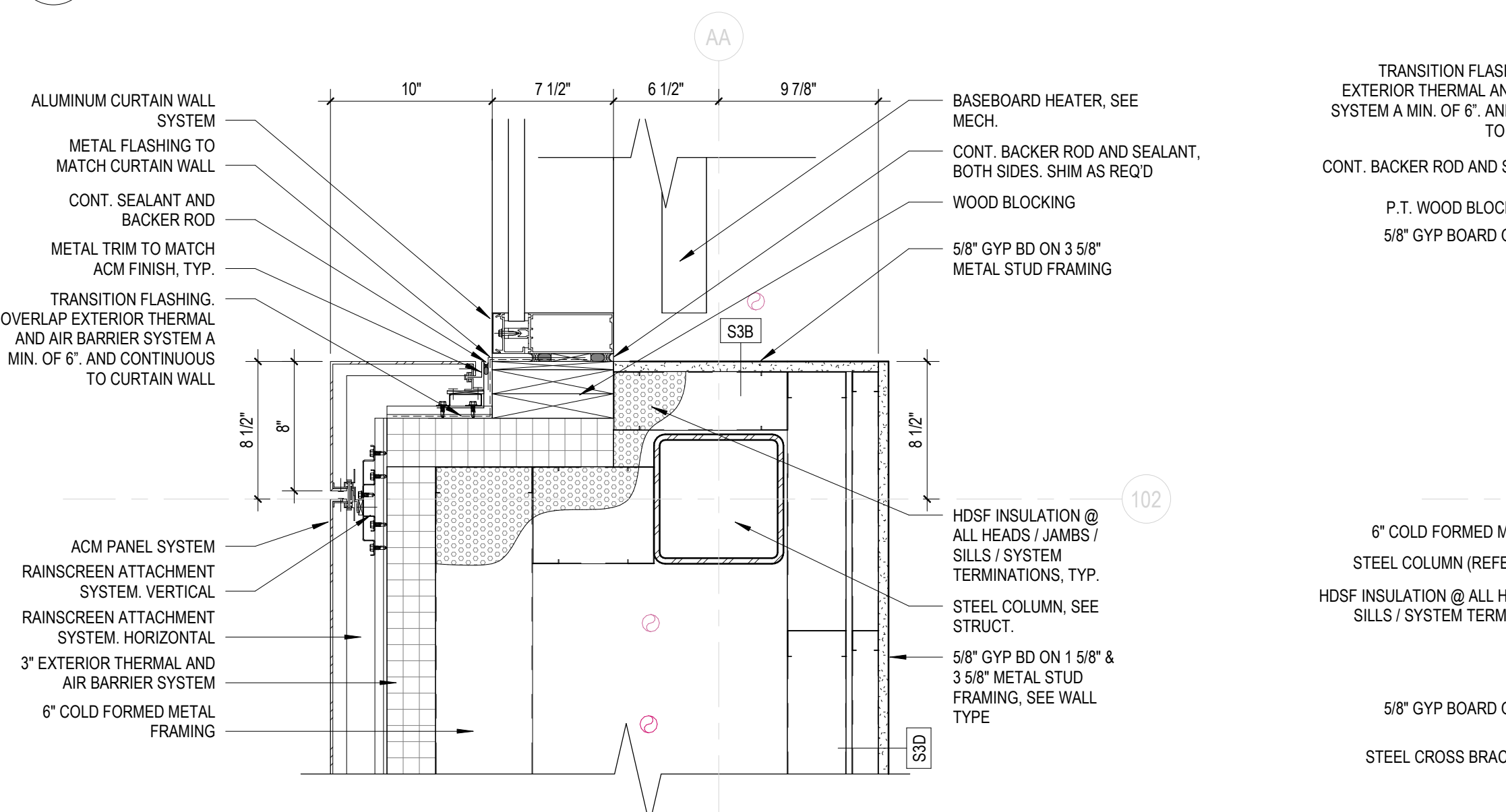
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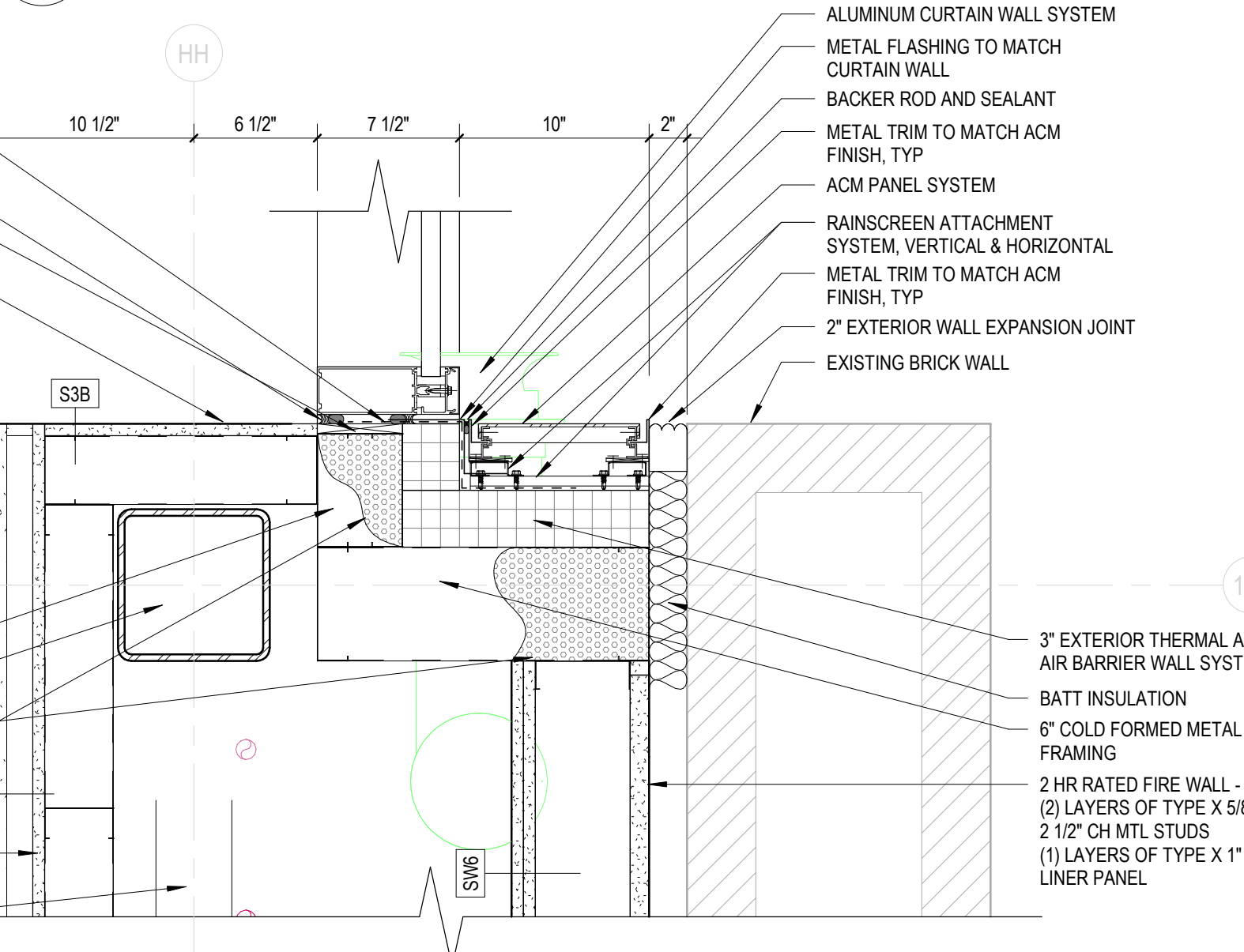
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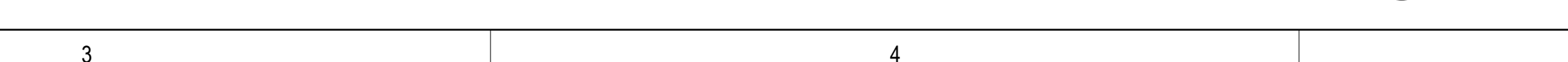
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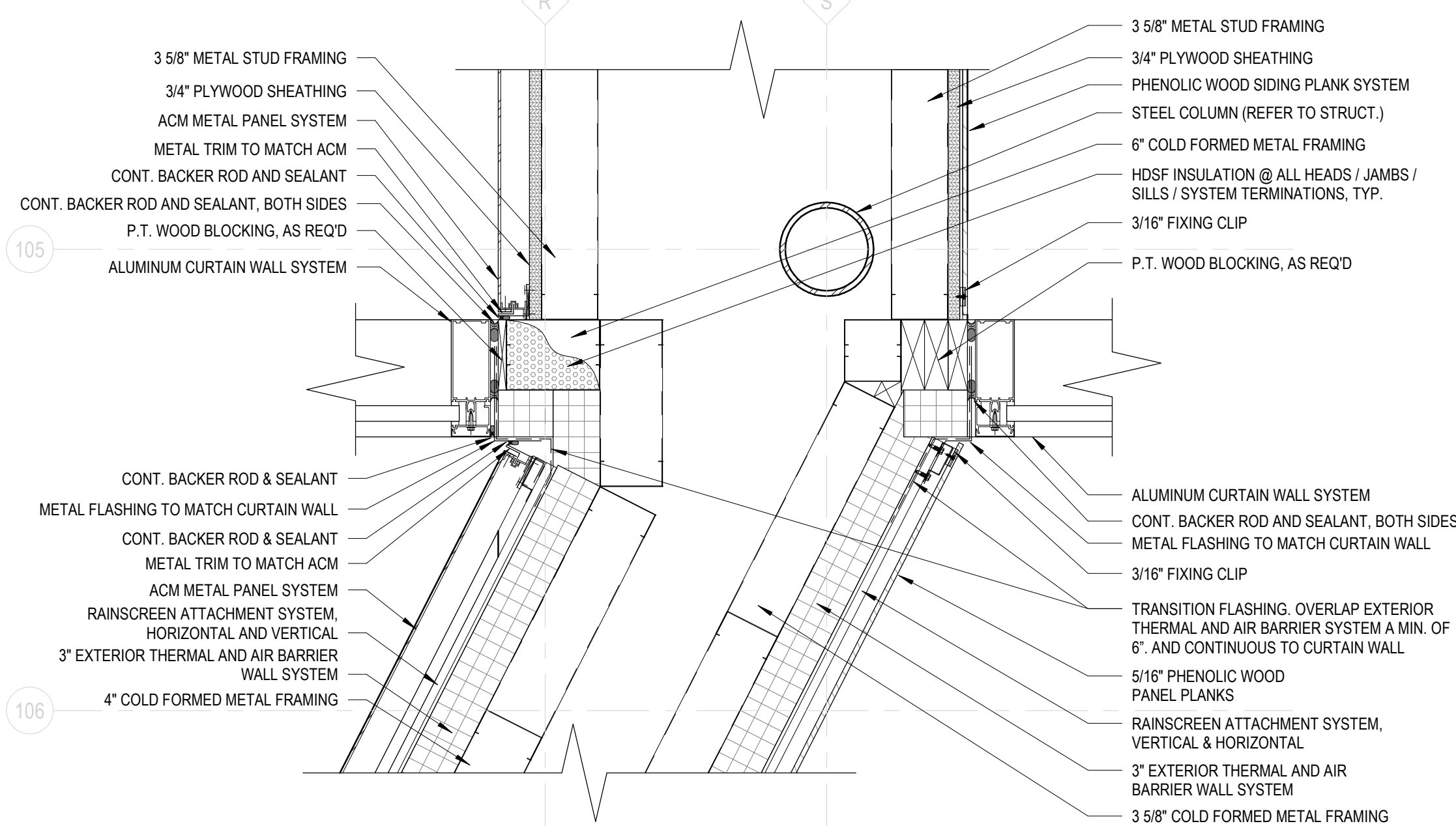
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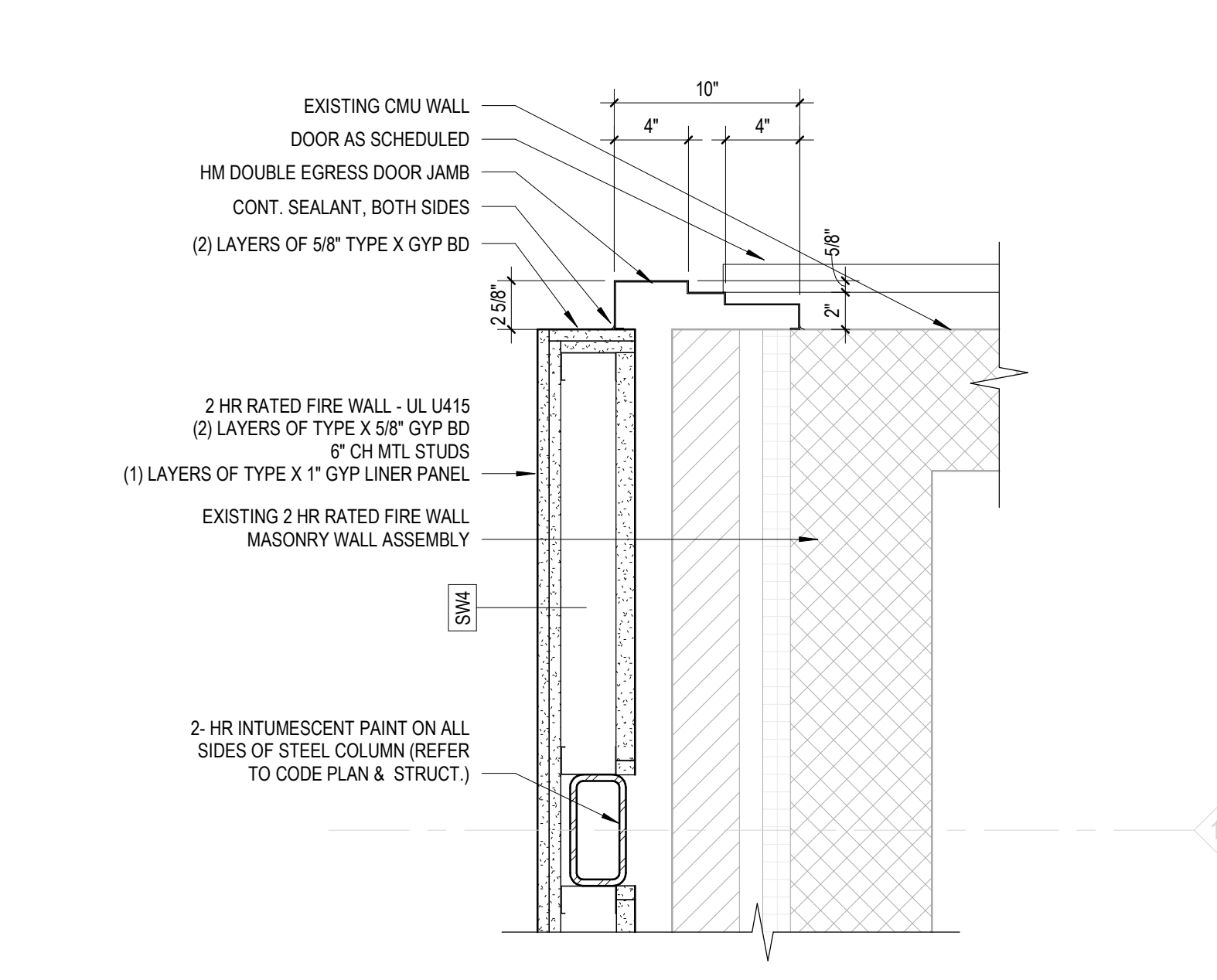
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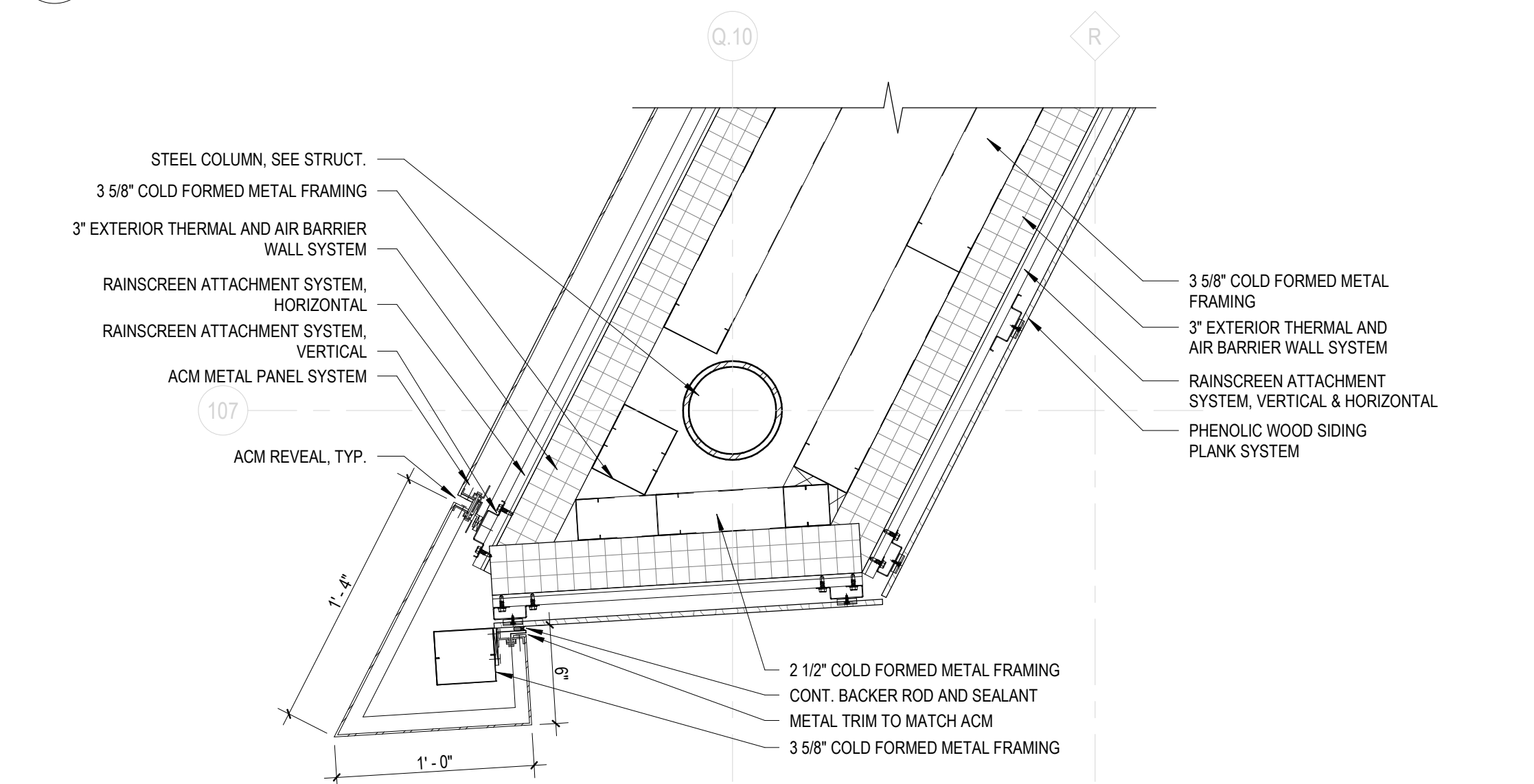
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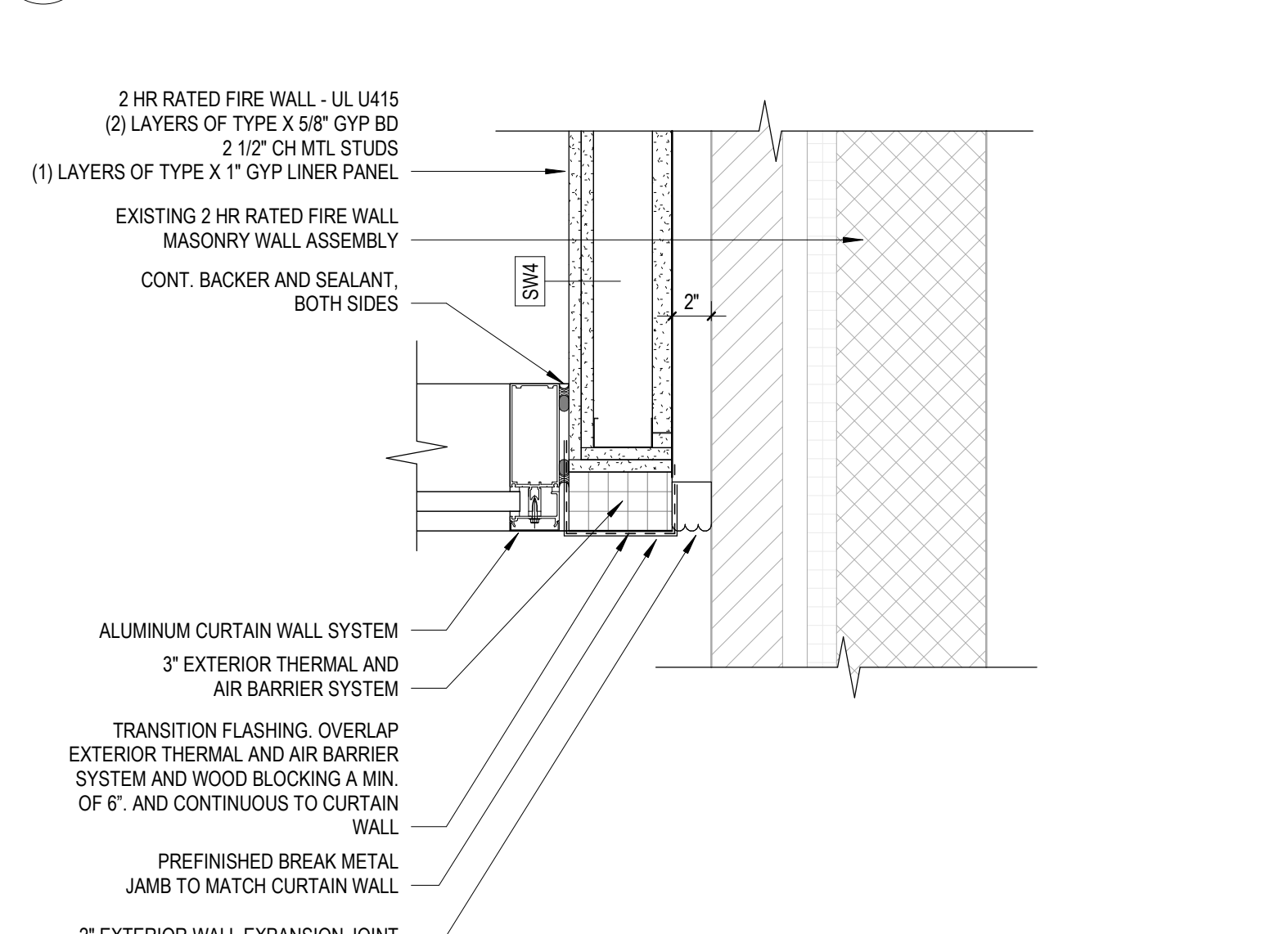
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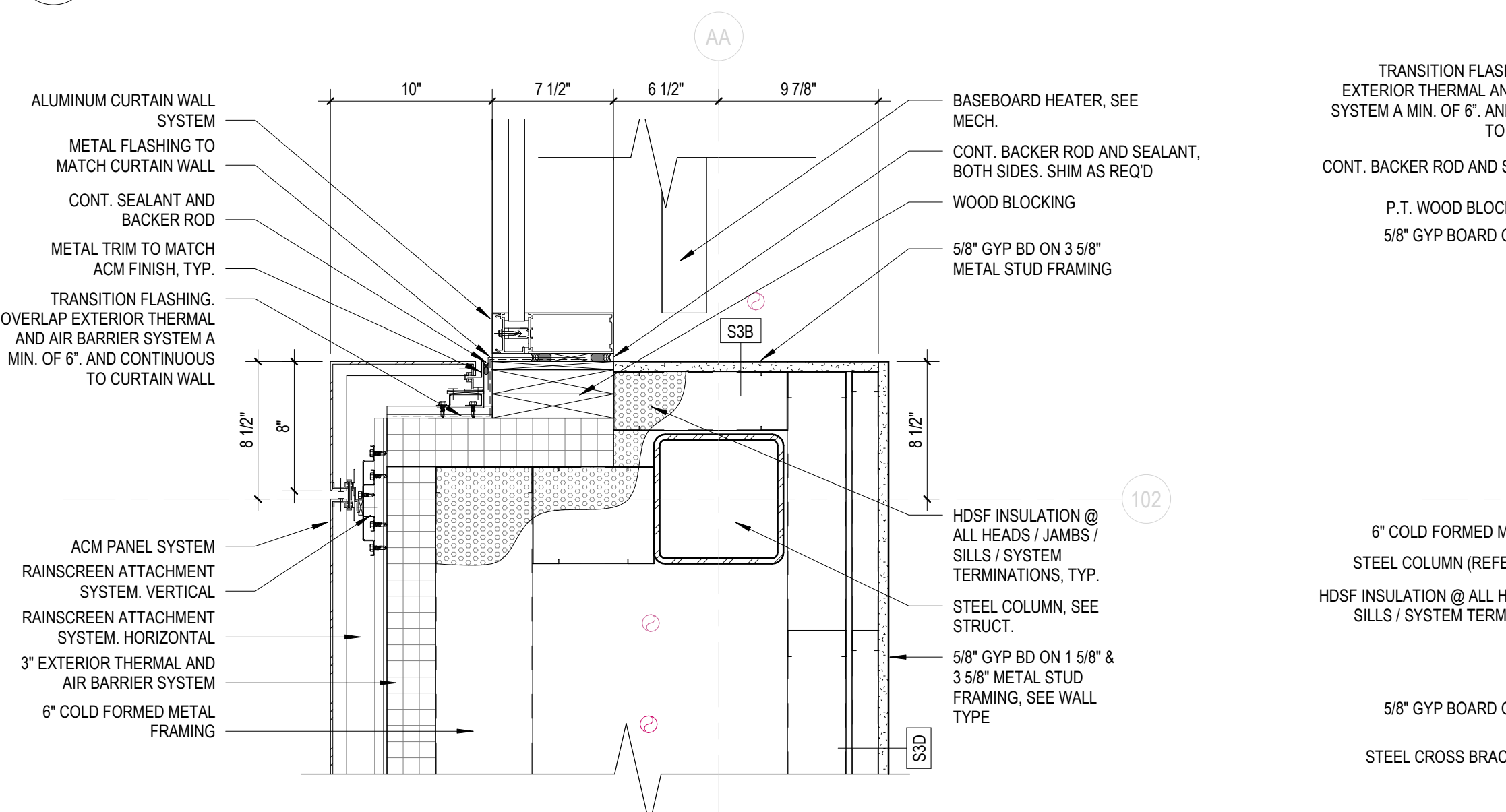
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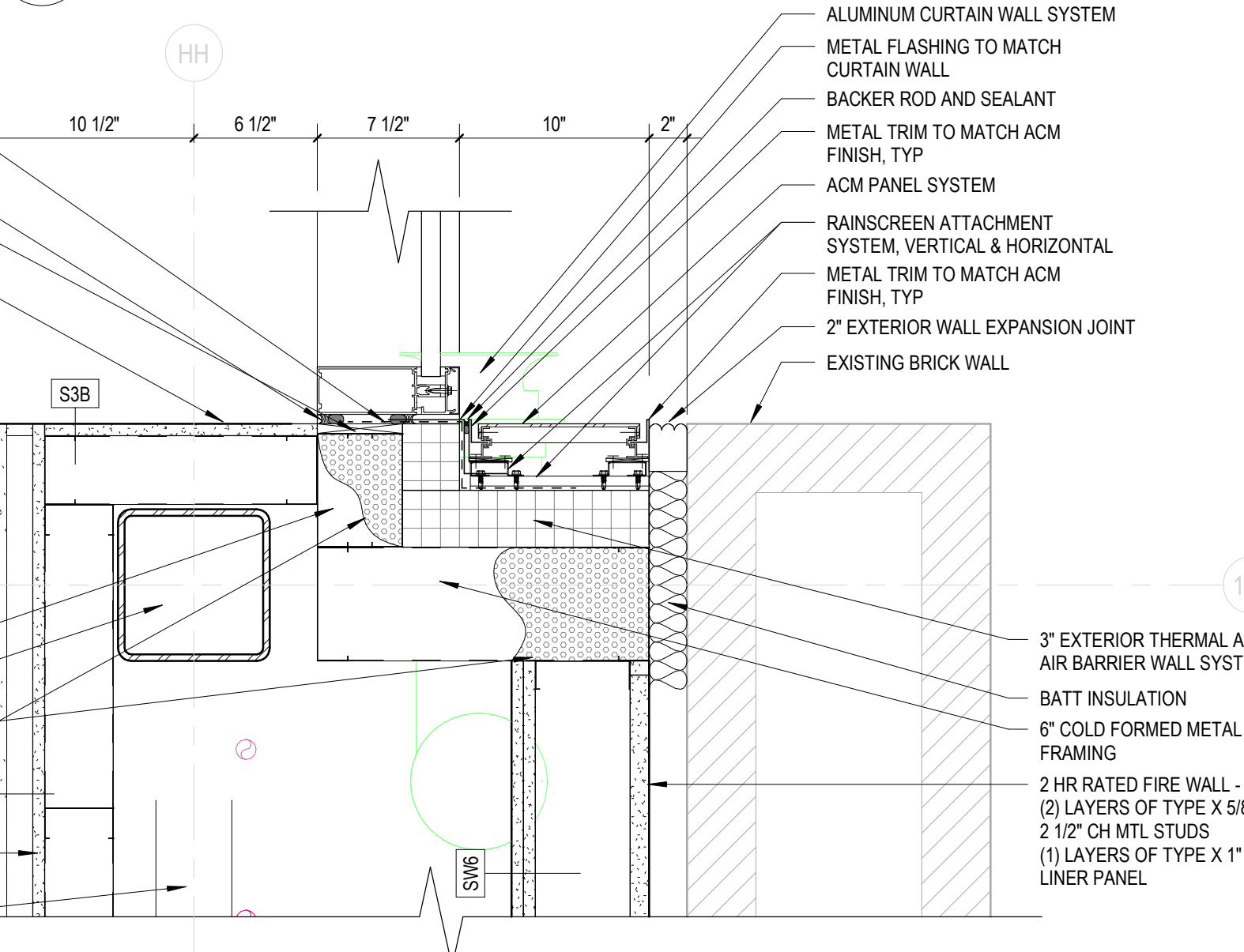
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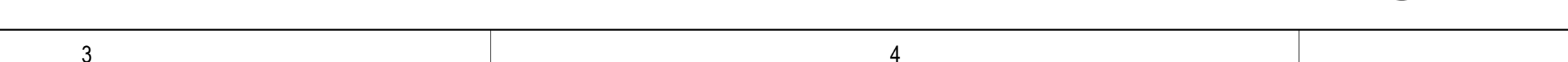
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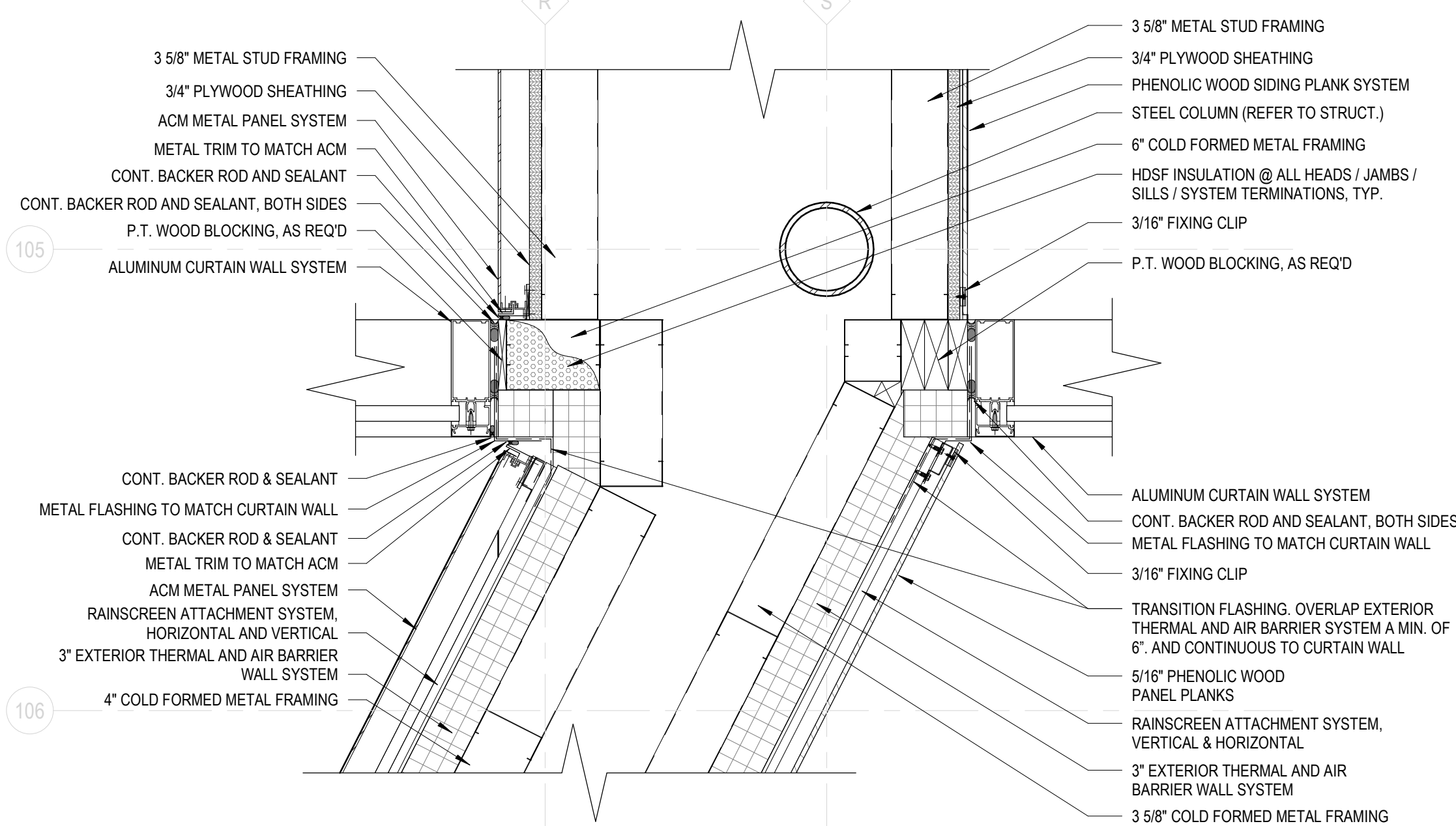
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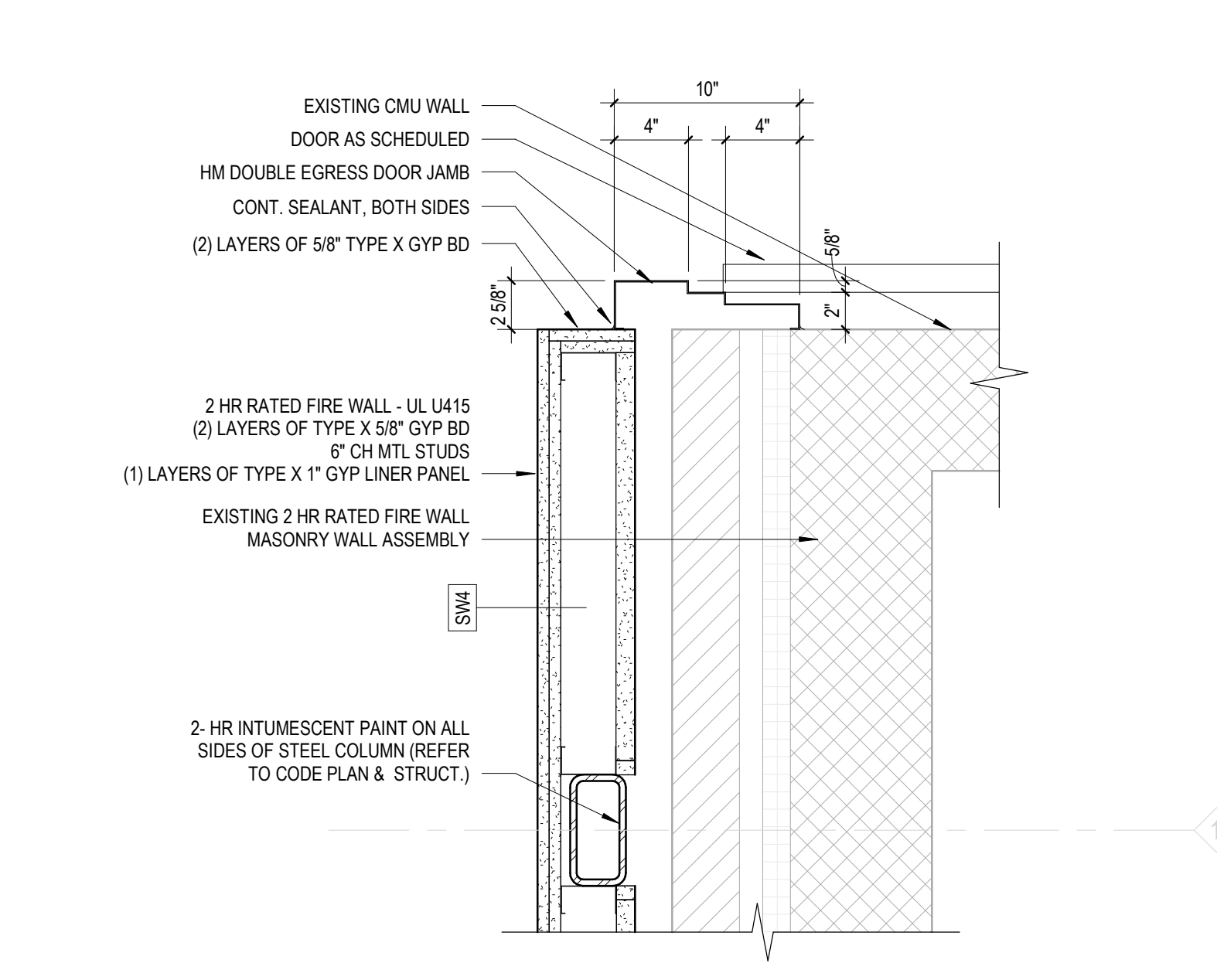
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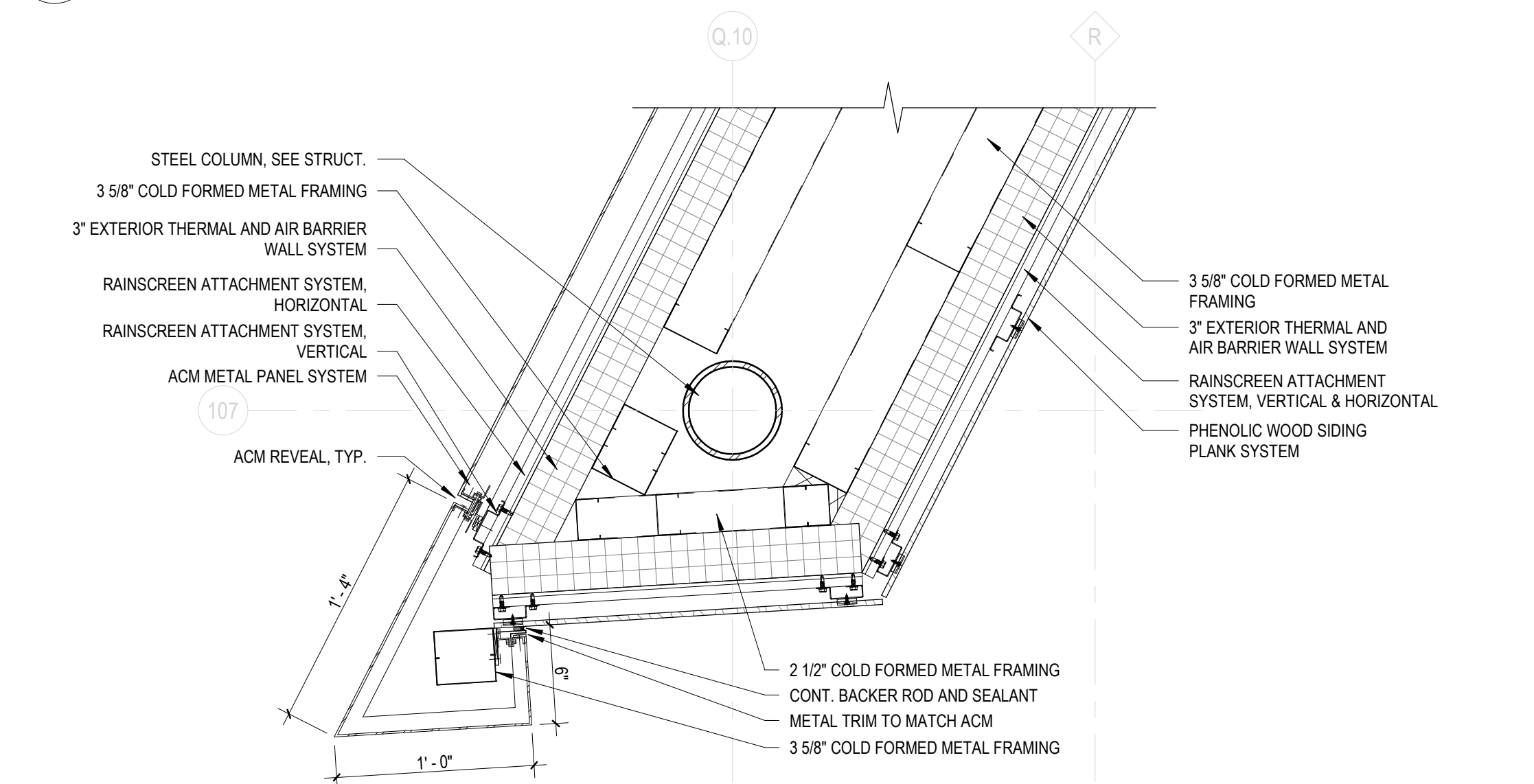
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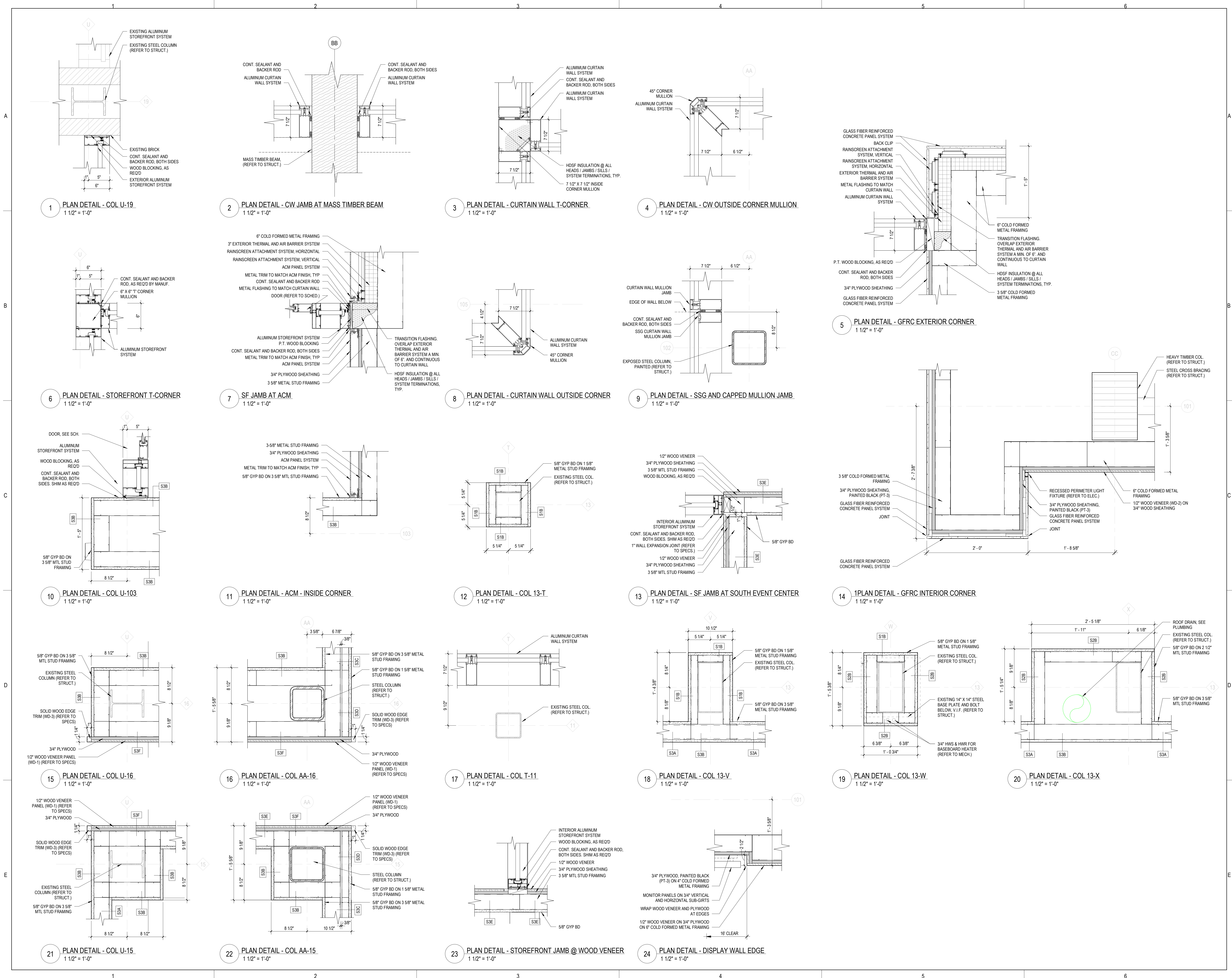
3 PLAN DETAIL - SHAFT WALL CONNECTION
1 1/2" = 1'-0"



6 PLAN DETAIL - CW JAMB AT WING WALL
1 1/2" = 1'-0"



<





ARCHITECT OF RECORD
DEMONICA KEMPER ARCHITECTS
125 N. HALSTED STREET, SUITE 301
CHICAGO, IL 60661
P: 312.496.0000

MEP-FP-T-ENGINEERS
IMEG CORP.
263 SHUMAN BLVD, SUITE 550
NAPERVILLE, IL 60563
P: 630.527.2320

CVIL-LANDSCAPE ENGINEER
HR GREEN
1391 CORPORATE DRIVE, SUITE 203
MCHENRY, IL 60050
P: 815.385.1778

CONSTRUCTION MANAGER
PEPPER CONSTRUCTION
411 LAKE ZURICH RD.
BARRINGTON, IL 60010
P: 847.381.2760

McHenry County College
ENGAGEMENT HALL
8900 NORTHWEST HWY #14
CRYSTAL LAKE, IL 60012
DKA PROJECT NO: 24-027

KEY PLAN:

SHEET STATUS: 05/16/2025
**ISSUED FOR BID - NOT
FOR CONSTRUCTION**

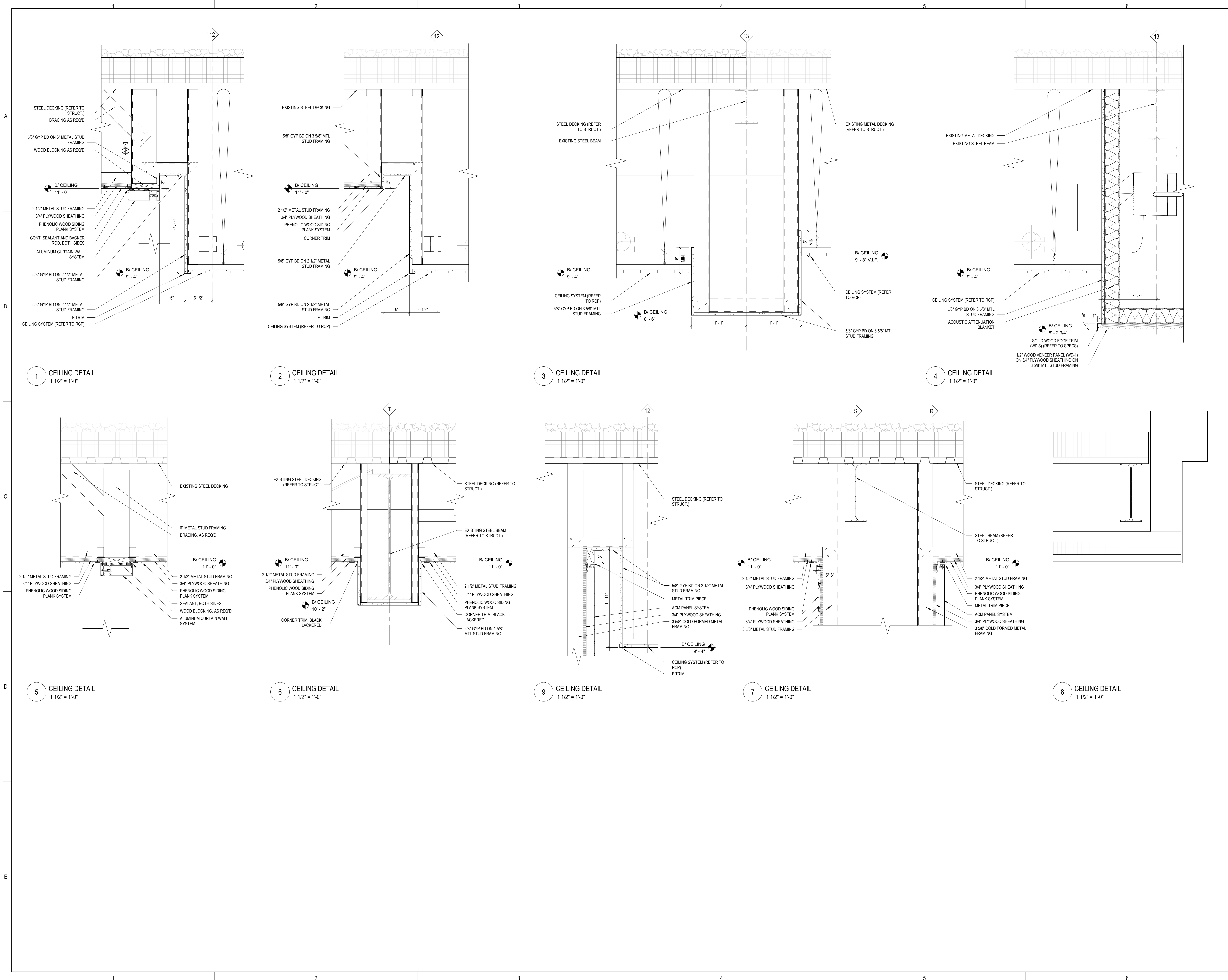
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SHEET TITLE:
CEILING DETAILS

SHEET NUMBER:

A7.71

5/16/2025 2:53:50 PM





ARCHITECT OF RECORD
DEMONICA KEMPER ARCHITECTS
125 N. HALSTED STREET, SUITE 301
CHICAGO, IL 60661
P: 312.496.0000

MEP-FP-T-ENGINEERS
IMEG CORP.
263 SHUMAN BLVD, SUITE 550
NAPERVILLE, IL 60563
P: 630.527.2320

CVIL-LANDSCAPE ENGINEER
HR GREEN
1391 CORPORATE DRIVE, SUITE 203
MCHEERY, IL. 60050
P: 815.355.1778

CONSTRUCTION MANAGER
PEPPER CONSTRUCTION
411 LAKE ZURICH RD.
BARRINGTON, IL 60010
P. 847.381.2760

**McHenry County College
ENGAGEMENT HALL**
8900 NORTHWEST HWY #14
CRYSTAL LAKE, IL 60012
DKA PROJECT NO: 24-027

KEY PLAN:

SHEET STATUS: 05/16/2025
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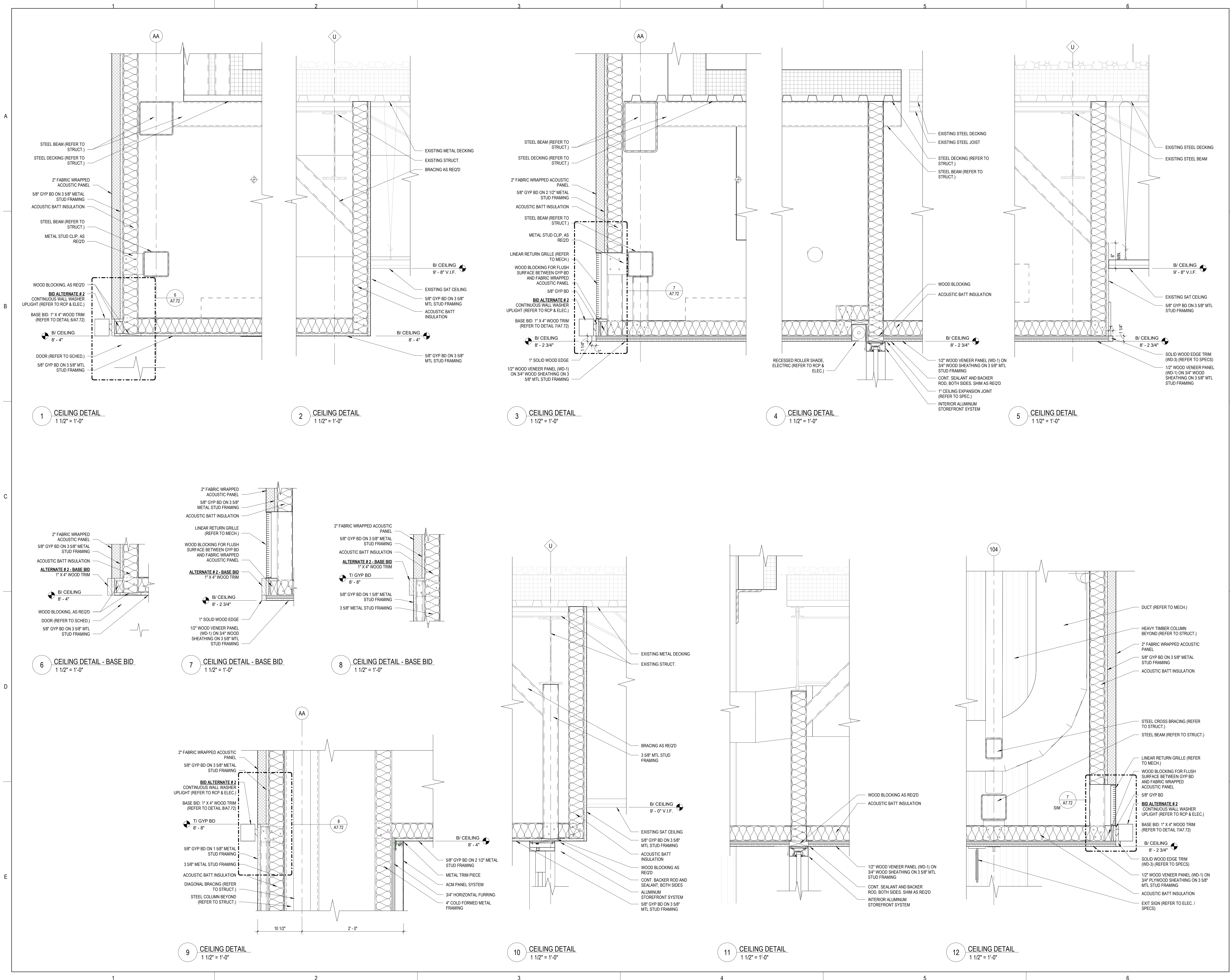
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SHEET TITLE:
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SHEET NUMBER:

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ARCHITECT OF RECORD
DEMONICA KEMPER ARCHITECTS
125 N. HALSTED STREET, SUITE 301
CHICAGO, IL 60661
P: 312.496.0000

MEP-FP-T-ENGINEERS
IMEG CORP.
263 SHUMAN BLVD, SUITE 550
NAPERVILLE, IL 60563
P: 630.527.2320

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1391 CORPORATE DRIVE, SUITE 203
MCHEMRY, IL 60050
P: 815.385.1778

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411 LAKE ZURICH RD.
BARRINGTON, IL 60010
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McHenry County College
ENGAGEMENT HALL
8900 NORTHWEST HWY #14
CRYSTAL LAKE, IL 60012
DKA PROJECT NO: 24-027

KEY PLAN:

SHEET STATUS: 05/16/2025
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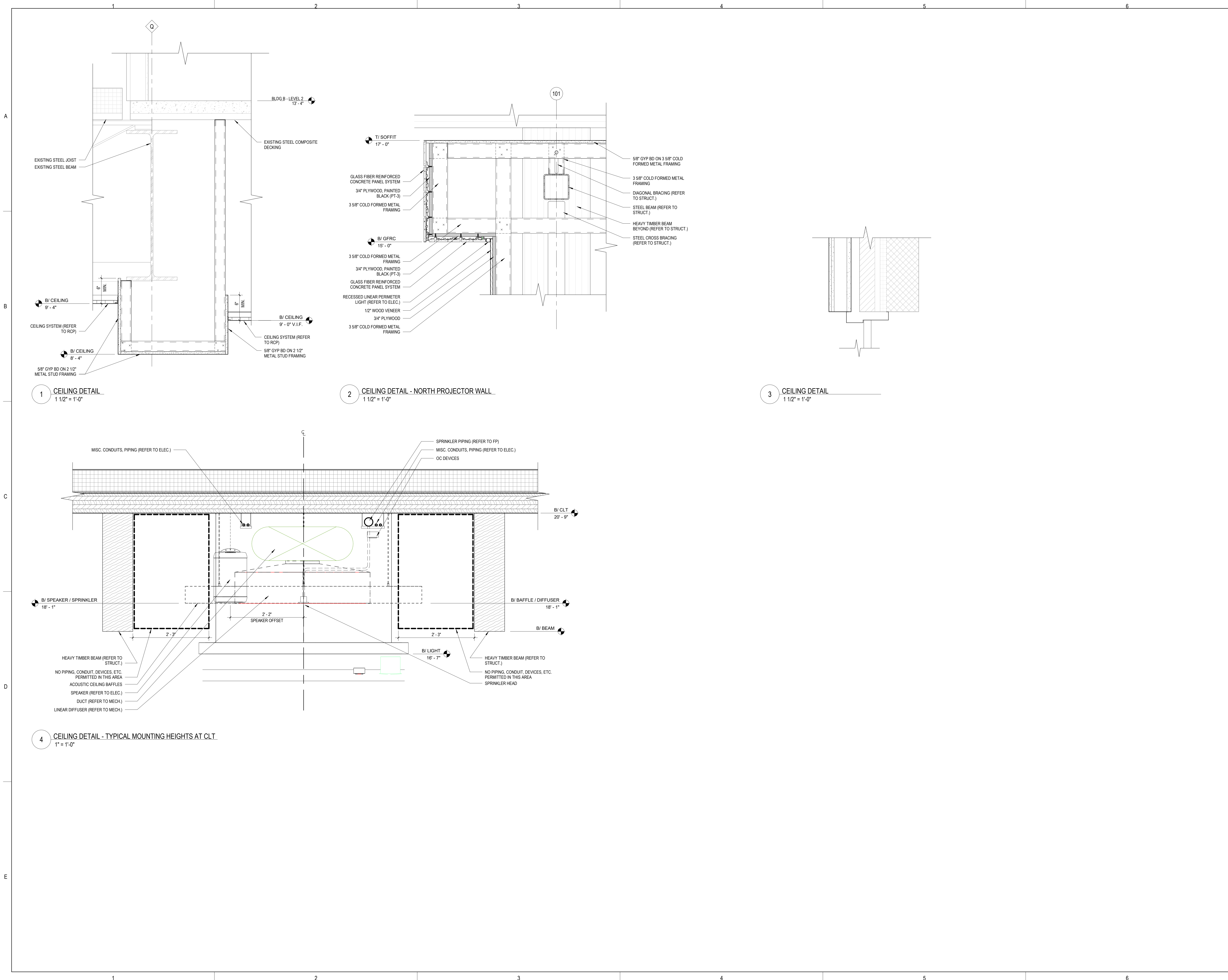
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SHEET NUMBER:

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ARCHITECT OF RECORD
DEMONICA KEMPER ARCHITECTS
125 N. HALSTED STREET, SUITE 301
CHICAGO, IL 60661
P: 312.496.0000

MEP-FP-T-ENGINEERS
IMEG CORP.
263 SHUMAN BLVD, SUITE 550
NAPERVILLE, IL 60563
P: 630.527.2320

CVIL-LANDSCAPE ENGINEER
HR GREEN
1391 CORPORATE DRIVE, SUITE 203
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BARRINGTON, IL 60010
P. 847.381.2760

McHenry County College
ENGAGEMENT HALL
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CRYSTAL LAKE, IL 60012
DKA PROJECT NO: 24-027

KEY PLAN:

SHEET STATUS: 05/16/2025
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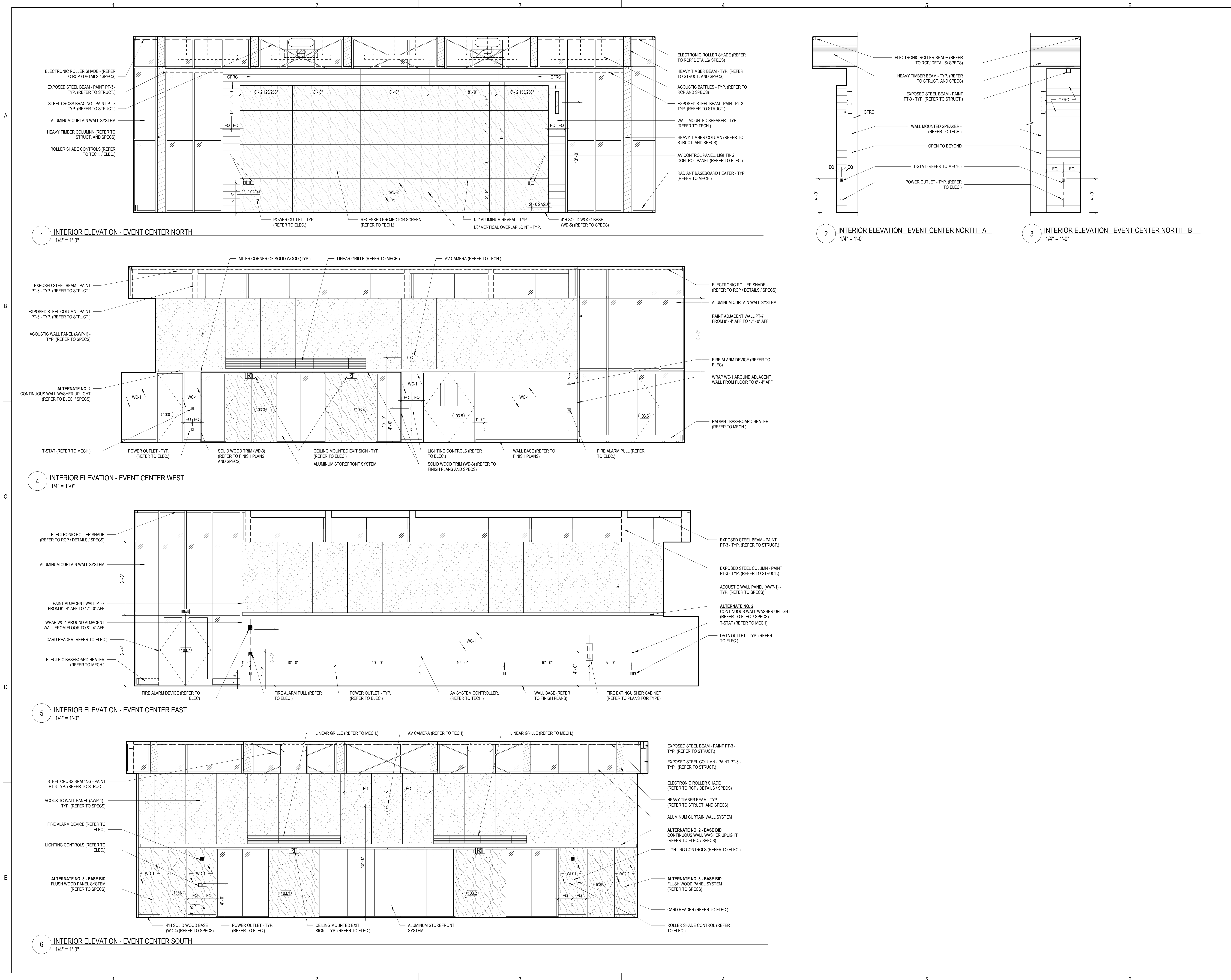
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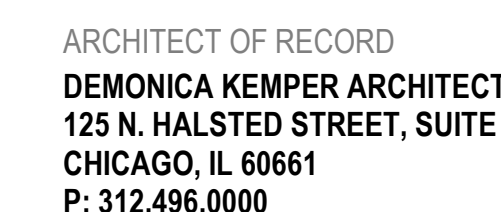
SHEET TITLE:
INTERIOR ELEVATIONS - EVENT CENTER

SHEET NUMBER:

A9.01

5/16/2025 2:53:59 PM





MEP-FP-T-ENGINEERS
IMEG CORP.
263 SHUMAN BLVD, SUITE 550
NAPERVILLE, IL, 60563
P: 630.527.2320

CVIL-LANDSCAPE ENGINEER
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CONSTRUCTION MANAGER
PEPPER CONSTRUCTION
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BARRINGTON, IL 60010
P. 847.381.2760

McHenry County College
ENGAGEMENT HALL

33900 NORTHWEST HWY #14
CRYSTAL LAKE, IL 60012
JOKA PROJECT NO: 24-027

KEY PLAN:

SHEET STATUS: 05/16/2

ISSUED FOR BID - NO
FOR CONSTRUCTION

[illegible]

SHEET TITLE:
**INTERIOR
ELEVATIONS - ENTR**

SHEET NUMBER:

A9.02

5/16/2025 2:54:02 PM



1 INTERIOR ELEVATION - CORRIDOR LINK - NORTH
1/4" = 1'-0"

2 INTERIOR ELEVATION - CORRIDOR LINK - SOUTH
1/4" = 1'-0"

3 INTERIOR ELEVATION - DINING EAST
1/4" = 1'-0"

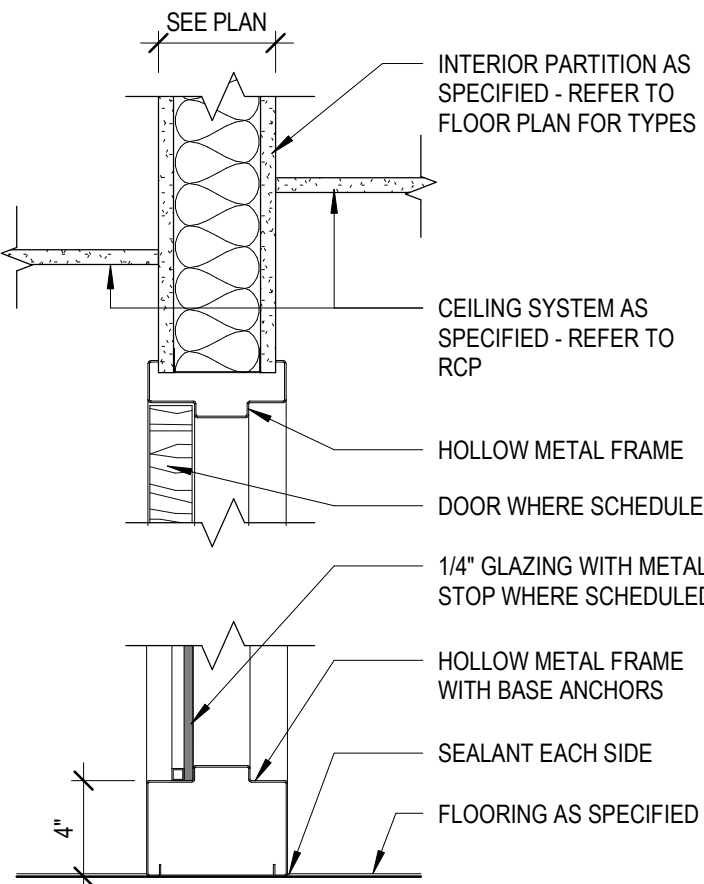
6 INTERIOR ELEVATION - CORRIDOR LINK - WEST
1/4" = 1'-0"

7 INTERIOR ELEVATION - VESTIBULE - WEST
1/4" = 1'-0"

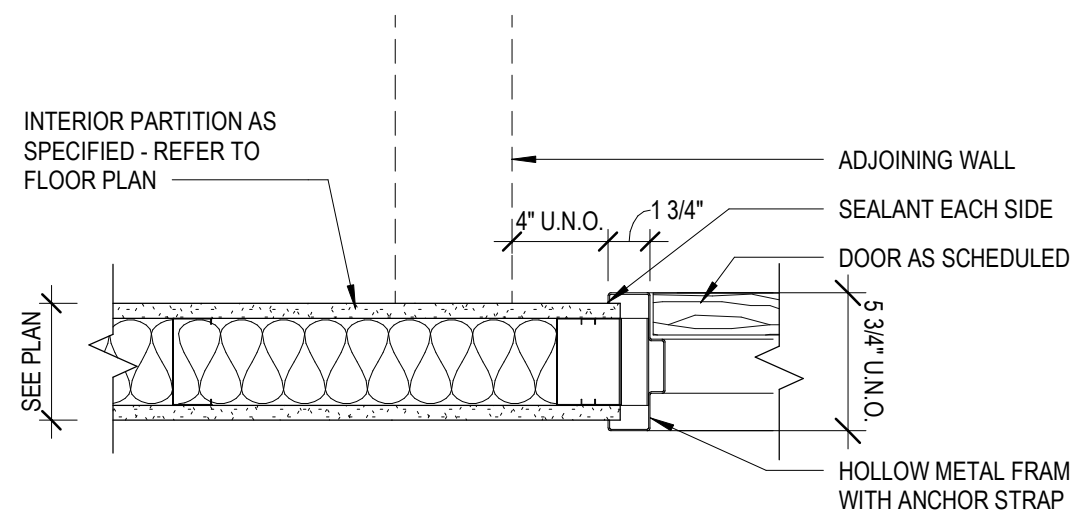
4 INTERIOR ELEVATION - CORRIDOR LINK - EAST 2
1/4" = 1'-0"

5 INTERIOR ELEVATION - CORRIDOR LINK - EAST
1/4" = 1'-0"

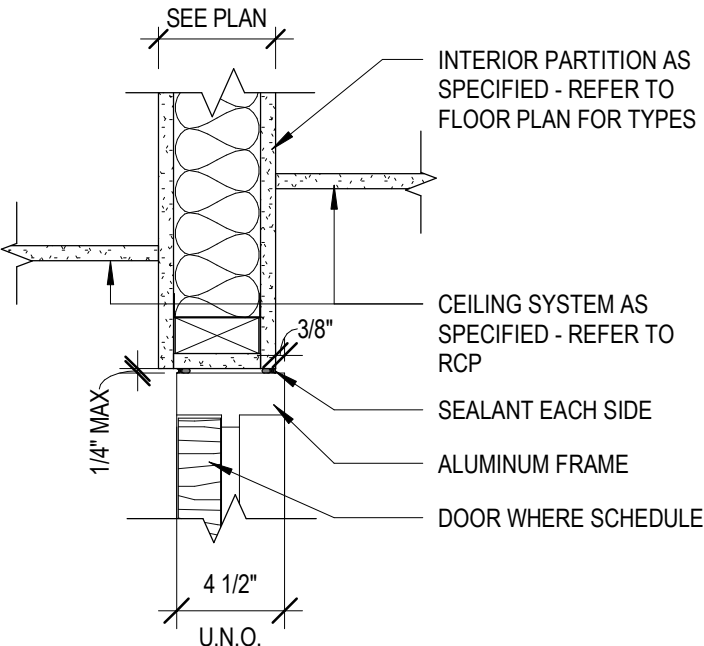
DOOR AND FRAME SCHEDULE											
NUMBER	ROOM NAME	DOOR			FIRE RATING	MATERIAL	ELEV	FRAME			REMARKS
		WIDTH	HEIGHT					MATERIAL	ELEV	GLAZING TYPE	
100.1	VESTIBULE	6'-0"	8'-0"	-	-	AL	FG-AL	GL-10	AL	SEE 10.10	(2) PANIC HARDWARE, (1) AUTO OPERATOR, ACCESS CONTROL
100.2	VESTIBULE	6'-0"	8'-0"	-	-	AL	FG-AL	GL-10	AL	SEE 10.10	(2) PANIC HARDWARE
100.3	VESTIBULE	6'-0"	8'-0"	-	-	AL	FG-AL	GL-10	AL	SEE 10.10	(2) PANIC HARDWARE, (1) AUTO OPERATOR
100.4	VESTIBULE	6'-0"	8'-0"	-	-	AL	FG-AL	GL-02	AL	SEE 10.10	(2) PANIC HARDWARE
102	CONNECTING LINK	8'-0"	7'-2"	2-HR	HM	NHGR	FL	HM	FDE	-	(2) ELECTRO-MAGNETIC HOLD OPENS
103.1	ENGAGEMENT HALL	6'-0"	8'-0 3/8"	-	WD	FL	-	AL	SEE 10.10	GL-04	ACOUSTICAL SEALS, (2) PANIC HARDWARE, OVERHEAD CLOSERS, OVERHEAD STOPS
103.2	ENGAGEMENT HALL	6'-0"	8'-0 3/8"	-	WD	FL	-	AL	SEE 10.10	GL-04	ACOUSTICAL SEALS, (2) PANIC HARDWARE, OVERHEAD CLOSERS, OVERHEAD STOPS
103.3	ENGAGEMENT HALL	6'-0"	8'-0 3/8"	-	WD	FL	-	AL	SEE 10.10	GL-04	ACOUSTICAL SEALS, (2) PANIC HARDWARE, OVERHEAD CLOSERS, OVERHEAD STOPS
103.4	ENGAGEMENT HALL	6'-0"	8'-0 3/8"	-	WD	FL	-	AL	SEE 10.10	GL-04	ACOUSTICAL SEALS, (2) PANIC HARDWARE, OVERHEAD CLOSERS, OVERHEAD STOPS
103.5	ENGAGEMENT HALL	6'-0"	8'-2"	-	HM	FL	-	HM	A	-	ACOUSTICAL SEALS, ACCESS CONTROL, OVERHEAD CLOSERS, OVERHEAD STOPS
103.6	ENGAGEMENT HALL	3'-0"	8'-6"	-	-	AL	FG-AL	GL-10	AL	SEE 10.10	ACCESS CONTROL
103.7	ENGAGEMENT HALL	6'-0"	8'-6"	-	-	AL	FG-AL	GL-10	AL	SEE 10.10	(2) PANIC HARDWARE, ACCESS CONTROL
103A	STORAGE	3'-0"	8'-0 3/4"	-	WD	FL	-	HM	A	-	
103B	STORAGE	3'-0"	8'-0 3/4"	-	WD	FL	-	HM	A	-	ACCESS CONTROL
103C	STORAGE	3'-0"	8'-2"	-	HM	FL	-	HM	A	-	
105.1	VESTIBULE	3'-0"	8'-1 5/8"	-	-	AL	FG-AL	GL-10	AL	SEE 10.10	PANIC HARDWARE, AUTO OPERATOR, ACCESS CONTROL
105.2	VESTIBULE	3'-0"	8'-1 5/8"	-	-	AL	FG-AL	GL-10	AL	SEE 10.10	PANIC HARDWARE, AUTO OPERATOR



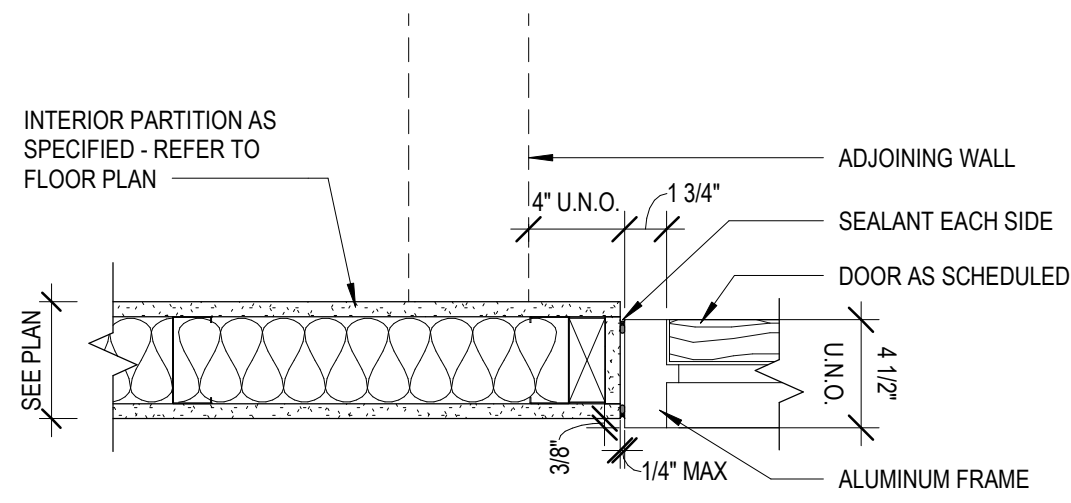
3 HOLLOW METAL FRAME - HEAD & SILL
1 1/2" = 1'-0"



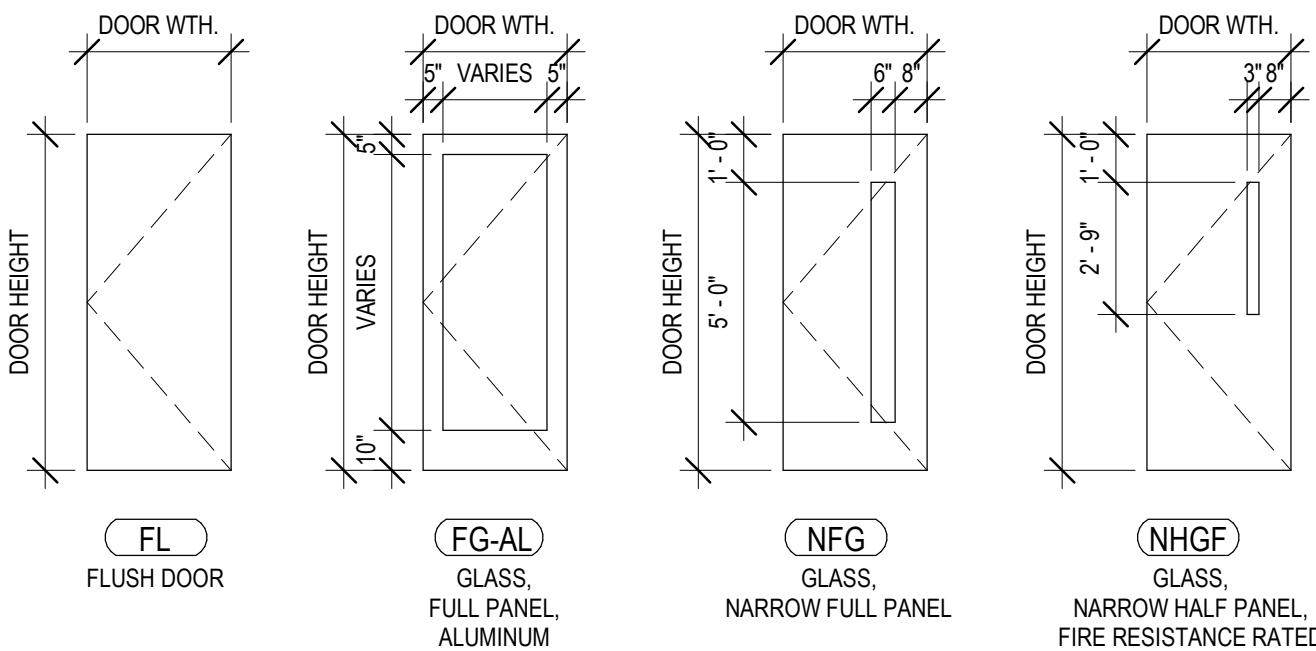
4 HOLLOW METAL FRAME - JAMB
1 1/2" = 1'-0"



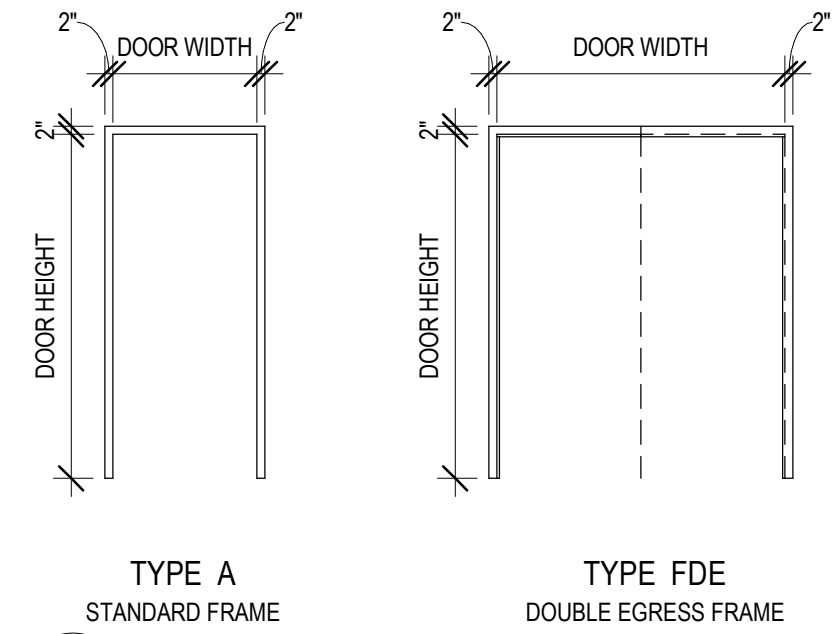
5 ALUMINUM FRAME - HEAD
1 1/2" = 1'-0"



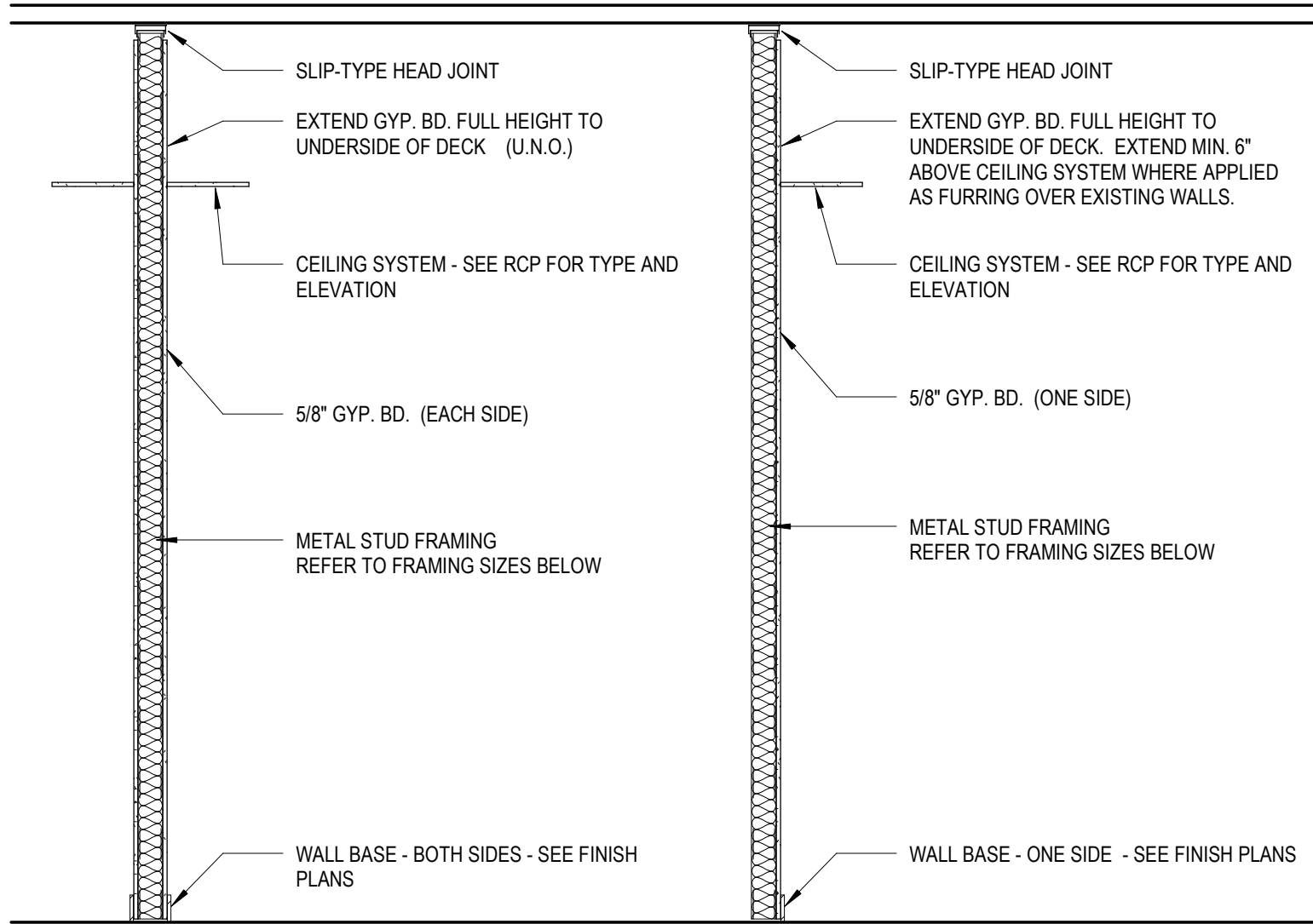
6 ALUMINUM FRAME - JAMB
1 1/2" = 1'-0"



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



2 FRAME ELEVATIONS
1/4" = 1'-0"

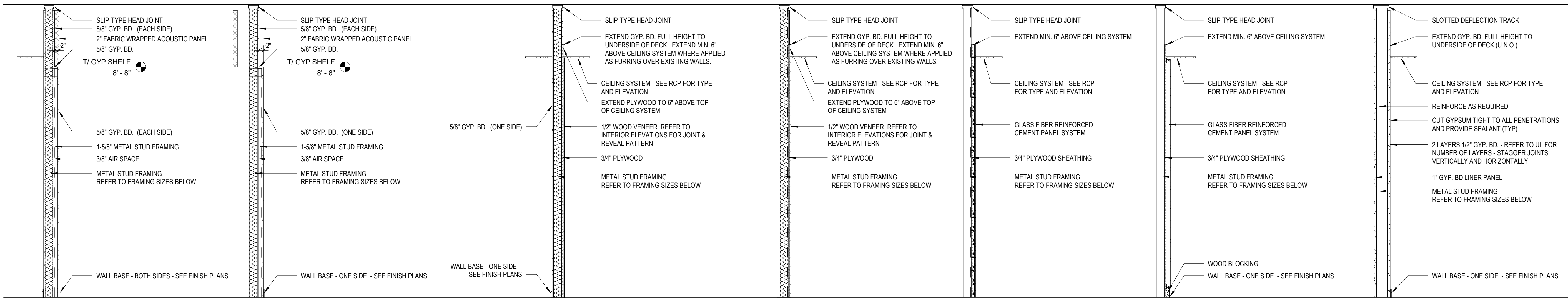


A - GYP BD EACH SIDE
CONSTRUCT PER UL-1419 AT SMOKE AND
1-HR FIRE RESISTANCE RATED PARTITIONS

- S1A 1-5/8" METAL STUD FRAMING
- S2A 2-1/2" METAL STUD FRAMING
- S3A 3-5/8" METAL STUD FRAMING
- S6A 6" METAL STUD FRAMING

B - GYP BD ONE SIDE

- S1B 1-5/8" METAL STUD FRAMING
- S2B 2-1/2" METAL STUD FRAMING
- S3B 3-5/8" METAL STUD FRAMING
- S6B 6" METAL STUD FRAMING



- S3C 3-5/8" METAL STUD FRAMING

- S3D 3-5/8" METAL STUD FRAMING

- S3E 3-5/8" METAL STUD FRAMING

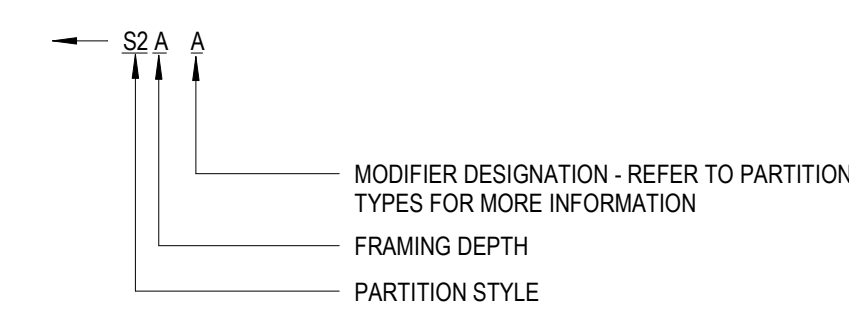
- S3F 3-5/8" METAL STUD FRAMING
- S6F 6" METAL STUD FRAMING

- S3G 3-5/8" METAL STUD FRAMING

- S3H 3-5/8" METAL STUD FRAMING

- SW4 4" C-H STUD SHAFT WALL FRAMING
- SW5 6" C-H STUD SHAFT WALL FRAMING

PARTITION TYPE LEGEND



PARTITION TYPE GENERAL NOTES:

- ALL INTERIOR PARTITIONS SHALL BE TYPE S1A (U.N.O.).
- ALL GYP BD ENCLOSURES AROUND COLUMNS SHALL BE TYPE S2D (U.N.O.).
- PROVIDE SOLID FIRE-RESISTANT TREATED WOOD BLOCKING, FLAT METAL STRAPS, OR METAL BACKING PLATES AT ALL WALL MOUNTED FIXTURES AND ACCESSORIES, INCLUDING BUT NOT LIMITED TO: DOOR STOPS, MILLWORK, DIGITAL DISPLAYS, VISUAL DISPLAY BOARDS, TOILET PARTITIONS, AND SIMILAR CONDITIONS.
- PROVIDE MOISTURE RESISTANT GYP BD AT ALL PLUMBING PARTITIONS NOT SCHEDULED TO RECEIVE TILE.
- SEE SPECIFICATIONS FOR ORIENTATION OF GYP BD PANELS, SIZING, AND SPACING OF METAL STUD FRAMING.
- SEE SPECIFICATIONS FOR TYPE AND SPACING OF CMU HORIZONTAL JOINT REINFORCEMENT.
- SEE INTERIOR ELEVATIONS FOR ANY GYP BD REVEAL PATTERNS.
- FIRE-RESISTANCE RATED SEPARATIONS:
 - SEE CODE COMPLIANCE PLANS FOR LOCATIONS AND TYPES OF FIRE RESISTANCE-RATED SEPARATIONS.
 - AT SMOKE PARTITIONS, FIRE PARTITIONS AND FIRE BARRIERS, WALL ASSEMBLY CONSTRUCTION SHALL EXTEND FROM TOP OF FLOOR TO THE UNDERSIDE OF THE FLOOR, ROOF SLAB, OR DECK ABOVE.
 - ALL PARTITIONS SHALL HAVE THE FOLLOWING PERMANENTLY AFFIXED MARKINGS AND IDENTIFICATION:
 - 1/2" HIGH LETTERING, INDICATING RATING AND FIRE RESISTANCE RATED PARTITION TYPE, I.E. "2-HR FIRE WALL" OR "1-HR FIRE BARRIER", AND SHALL ALSO INCLUDE THE FOLLOWING SUFFIX: "PROTECT ALL OPENINGS AND PENETRATIONS"
 - LOCATE LETTERING ABOVE ACCESSIBLE CEILINGS AT INTERVALS NOT TO EXCEED 30'-0". THERE SHOULD BE A MINIMUM OF ONE MARKING PER WALL, PER ROOM.



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P: 312.496.0000

MEP-FP-T-ENGINEERS

IMEG CORP.
263 SHUMAN BLVD, SUITE 550
NAPERVILLE, IL 60563
P: 630.527.2320

CIVIL-LANDSCAPE ENGINEER

HR GREEN
1391 CORPORATE DRIVE, SUITE 203
MCHENNY, IL 60050
P: 815.385.1778

CONSTRUCTION MANAGER

PEPPER CONSTRUCTION
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BARRINGTON, IL 60010
P: 847.381.2760

McHenry County College
ENGAGEMENT HALL
8900 NORTHWEST HWY #14
CRYSTAL LAKE, IL 60012
DKA PROJECT NO: 24-027

KEY PLAN:

SHEET STATUS: 05/16/2025
ISSUED FOR BID - NOT FOR CONSTRUCTION

NO.	DESCRIPTION:	DATE:

SHEET TITLE:
DOOR SCHEDULE AND WALL TYPES

SHEET NUMBER:

A10.00

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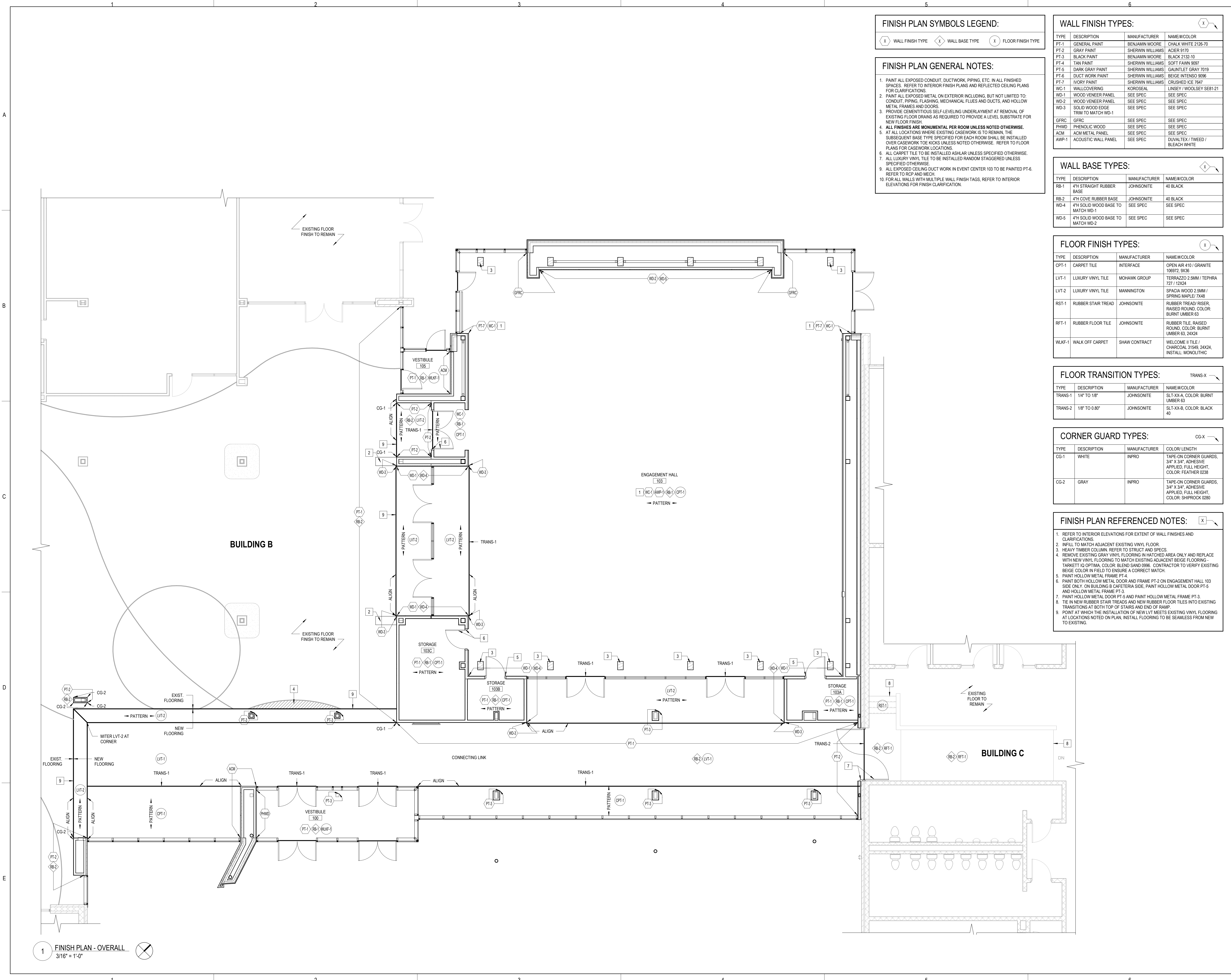


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KEY PLAN:

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DKA PROJECT NO: 24-027

KEY PLAN:

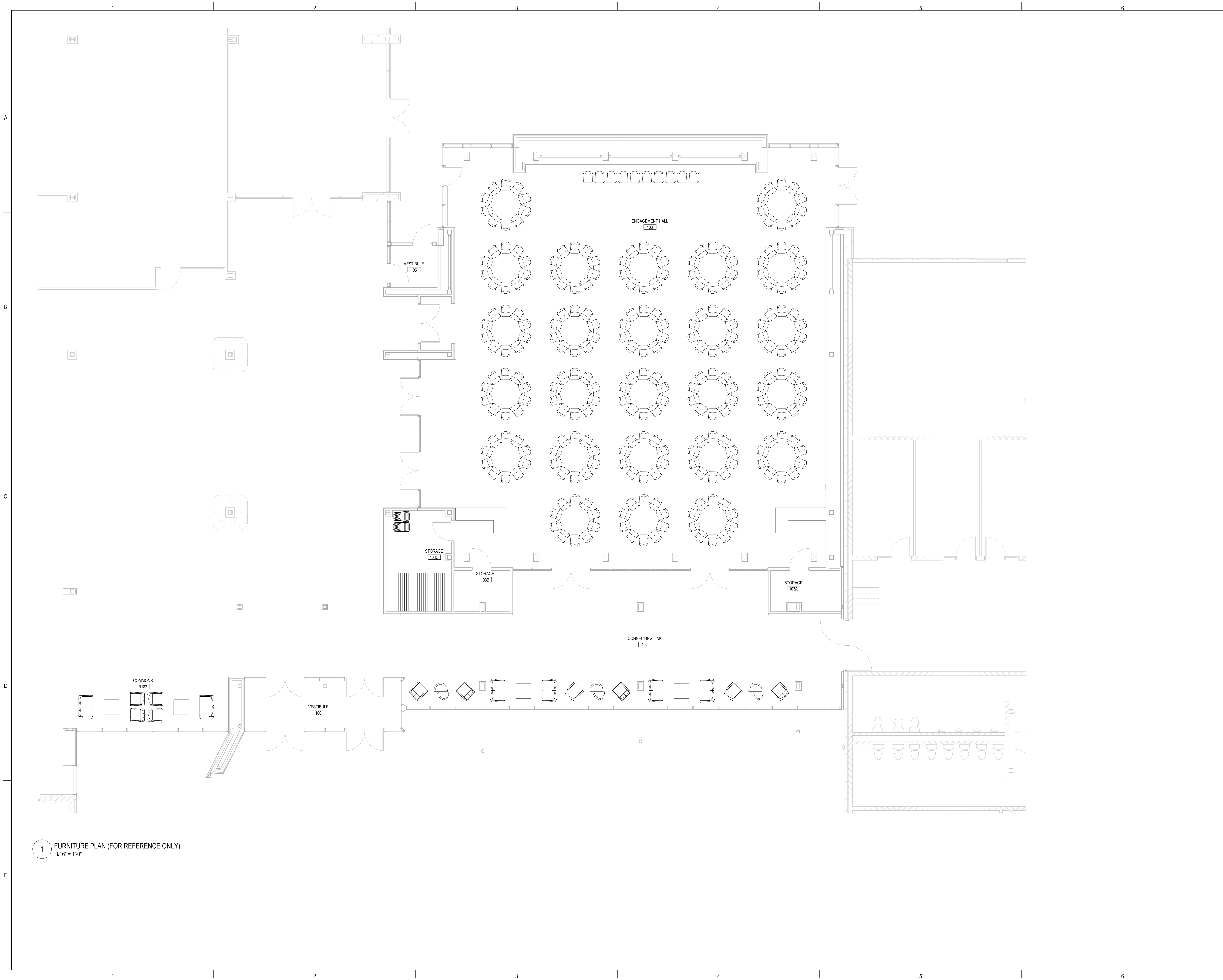
SHEET STATUS: 05/16/2025
ISSUED FOR BID - NOT FOR CONSTRUCTION

NO.	DESCRIPTION:	DATE:

SHEET TITLE:
FINISH PLAN - EVENT CENTER & ENTRY

SHEET NUMBER:
A11.01

5/16/2025 2:54:11 PM



1 FURNITURE PLAN (FOR REFERENCE ONLY)
3/16" = 1'-0"



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McHenry County College
ENGAGEMENT HALL
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CRYSTAL LAKE, IL 60012
DKA PROJECT NO: 24-027

KEY PLAN:

SHEET STATUS: 05/16/2025
**ISSUED FOR BID - NOT
FOR CONSTRUCTION**

NO.	DESCRIPTION:	DATE:

SHEET TITLE:
**FURNITURE PLANS
(FOR REFERENCE
ONLY)**

SHEET NUMBER:
A12.01

DESIGN CRITERIA

- STRUCTURE HAS BEEN DESIGNED TO COMPLY WITH THE 2018 INTERNATIONAL BUILDING CODE (IBC) AND SUBSEQUENT REFERENCE STANDARDS.
- RISK CATEGORY: II
- SUPERIMPOSED DEAD LOADS:

	Event Center	16 PSF
ROOF	Entry	22 PSF
- SUPERIMPOSED LIVE LOADS: LIVE LOAD REDUCTION USED AS ALLOWED PER CODE
- SNOW:

	TYPICAL	20 PSF
GROUND SNOW	30 PSF	
SNOW EXPOSURE FACTOR	1.0	
THERMAL FACTOR	1.0	
SLOPE FACTOR(S)	1.0	
IMPORTANCE FACTOR	1.0	
FLAT-ROOF SNOW	21 PSF	
DESIGN SNOW	25 PSF	
SEE 80.02 FOR SNOW DRIFT PLAN.		
- SEISMIC:

		B
SEISMIC DESIGN CATEGORY		B
IMPORTANCE FACTOR	1.0	
SITE CLASS	D	
SS	0.112 g	
S1	0.059 g	
SDS	0.12 g	
SD1	0.094 g	
SEISMIC FORCE RESISTING SYSTEM	TIMBER FRAMES (E-W) AND STEEL SYSTEM NOT SPECIFICALLY DETAILED (N-S)	
RESPONSE MODIFICATION COEFFICIENT, R	1 1/2 (E-W), 3 (N-S)	
Cd	1 1/2 (E-W)	
Omega o	1 1/2 (E-W), 3 (N-S)	
Rho	1.0	
ANALYSIS PROCEDURE	EQUIVALENT LATERAL FORCE	
SEISMIC RESPONSE COEFFICIENT, CS	0.08 (E-W), 0.04 (N-S)	
DESIGN BASE SHEAR (STRENGTH LEVEL)	20.9 KIPS (E-W), 10.5 KIPS (N-S)	
- WIND:

BASIC WIND SPEED	VULT = 107 MPH VASD = 83 MPH
EXPOSURE CLASS	C
INTERNAL PRESSURE COEFFICIENT, Gcpi	+0.18
MAIN WIND FORCE PRESSURE (STRENGTH LEVEL)	23 PSF
COMPONENTS & CLADDING:	
ROOF COMPONENTS	ZONE 1 ZONE 2 ZONE 3
SUPPORT BEAMS (A=100 SF)	33.1 PSF 44 PSF 52.4 PSF
ROOF SHEATHING (A=50 SF)	35.9 PSF 47.6 PSF 59.6 PSF
DECK FASTENERS (A=10 SF)	42.4 PSF 56 PSF 76.3 PSF
WALL COMPONENTS	ZONE 4 ZONE 5
A=200 SF	21.7 PSF 23.2 PSF
A=50 SF	23.9 PSF 27.5 PSF
A=20 SF	26.4 PSF 32.5 PSF

- C & C NOTES:
- THE PRESSURES LISTED ARE IN ACCORDANCE IBC AND ASCE 7, AND THE DESIGN FORCES USED BY THE SUBCONTRACTOR FOR A SPECIFIC APPLICATION ARE THE RESPONSIBILITY OF THE SUBCONTRACTOR.
 - WIND PRESSURES ARE ULTIMATE DESIGN LEVEL.
 - SEE ASCE 7 FOR ZONE DEFINITIONS AND EXTENT OF ZONES.
 - SUBMIT DESIGN CALCULATIONS SIGNED AND SEALED BY A LICENSED ENGINEER IN THE PROJECT'S JURISDICTION FOR ANY DESIRED MODIFICATION TO THE STATED PRESSURES.
- RAIN:
- | | |
|-------------------|-----------|
| RAIN INTENSITY, I | 6.4 IN/HR |
|-------------------|-----------|
- ALL LATERAL LOAD RESISTANCE AND STABILITY OF THE BUILDING IN THE COMPLETED STRUCTURE IS PROVIDED BY BRACED FRAMES IN EACH ORTHOGONAL DIRECTION. SEE PLANS FOR LOCATIONS, TIE-DECK SERIES AND HORIZONTAL DIAPHRAGMS. THE STRUCTURE DISTRIBUTING THE LATERAL FORCES TO THE VERTICAL LATERAL ELEMENTS WHICH IN TURN CARRY THE LOAD TO THE BUILDING FOUNDATIONS.

GENERAL

- DURING THE CONSTRUCTION PERIOD, THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SAFETY OF PERSONNEL AND PROPERTY ON AND AROUND THE JOBSITE. THE CONTRACTOR SHALL PROVIDE ADEQUATE SHORING, BRACING, GUYS, ETC. IN ACCORDANCE WITH ALL NATIONAL, STATE, AND LOCAL SAFETY ORDINANCES. TEMPORARY BRACING, SHORING, GUYING, ETC. SHALL AVOID EXCESSIVE STRESSES AND HOLD STRUCTURAL ELEMENTS IN PLACE DURING CONSTRUCTION. THE STRUCTURE SHOULD NOT BE CONSIDERED STABLE UNTIL ALL STRUCTURAL ELEMENTS HAVE BEEN CONSTRUCTED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
- ALL DRAWINGS AND SPECIFICATIONS ARE CONSIDERED TO BE A PART OF THE CONTRACT DOCUMENTS. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE REVIEW AND COORDINATION OF ALL DRAWINGS PRIOR TO THE START OF CONSTRUCTION. ANY DISCREPANCIES OR OMISSIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT PRIOR TO THE START OF CONSTRUCTION SO A CLARIFICATION CAN BE ISSUED. ANY WORK THAT DEVIATES FROM OR IS PERFORMED IN CONFLICT WITH THE CONTRACT DOCUMENTS OR ANY CODE REQUIREMENTS SHALL BE CORRECTED BY THE CONTRACTOR AT THEIR OWN EXPENSE AND AT NO EXPENSE TO THE OWNER OR THE DESIGN PROFESSIONALS.
- THE CONTRACT DOCUMENTS REPRESENT THE FINISHED STRUCTURE. THEY DO NOT INDICATE THE METHOD OF CONSTRUCTION. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING ALLOWABLE CONSTRUCTION LOADS AND FOR DETERMINING SEQUENCES OF CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE ALL MEASURES NECESSARY TO PROTECT THE STRUCTURE AND SAFETY OF WORKERS DURING CONSTRUCTION. SUCH MEASURES SHALL INCLUDE, BUT NOT BE LIMITED TO: FALSEWORK, FORMWORK, STAGING, BRACING, AND SHORING FOR LOADS DUE TO CONSTRUCTION EQUIPMENT, ETC. OBSERVATION VISITS TO THE SITE BY THE ARCHITECT SHALL NOT INCLUDE INSPECTION OR APPROVAL OF THE ABOVE ITEMS AND DO NOT IN ANY WAY RELIEVE THE CONTRACTOR OF THEIR RESPONSIBILITIES FOR THE ABOVE. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO MAINTAIN AND ENSURE THE INTEGRITY OF THE STRUCTURE AT ALL STAGES OF CONSTRUCTION.
- ALL DIMENSIONS AND SITE CONDITIONS SHALL BE VERIFIED BY THE CONTRACTOR AT THE JOBSITE PRIOR TO THE SUBMITTAL. START OF CONSTRUCTION SHALL BE THE START OF CONSTRUCTION, AND/OR FABRICATION OF MATERIALS. IF DISCREPANCIES ARE ENCOUNTERED, OR CONDITIONS DEVELOP THAT ARE NOT COVERED BY THE CONTRACT DOCUMENTS, THE ARCHITECT SHALL BE NOTIFIED FOR CLARIFICATION.
- STRUCTURAL SUBSTITUTIONS MAY BE ALLOWED WITH THE APPROVAL OF THE STRUCTURAL ENGINEER. SUPPLIER SHALL PROVIDE SIGNED AND SEALED DESIGN CALCULATIONS OR SUITABLE PRODUCT LITERATURE FOR THE COMPONENTS. ALL PRODUCT SUBSTITUTIONS SHALL INCLUDE A CODE EVALUATION REPORT SPECIFIC TO THE BUILDING CODE LISTED IN THE DESIGN CRITERIA.
- STRUCTURAL DRAWINGS INCLUDE DESIGN REQUIREMENTS AND DIMENSIONS FOR STRUCTURAL INTEGRITY BUT DO NOT SHOW ALL DETAIL DIMENSIONS TO FIT INTRICATE ARCHITECTURAL AND MECHANICAL DETAILS. CONTRACTOR SHALL CONSTRUCT THE WORK SO IT WILL CONFORM TO THE CLEARANCES REQUIRED BY ARCHITECTURAL, MECHANICAL, AND ELECTRICAL DESIGN.
- ALL SYMBOLS AND ABBREVIATIONS USED ON THE DRAWINGS ARE CONSIDERED TO BE CONSTRUCTION STANDARDS. IF CLARIFICATION IS REQUIRED, THE CONTRACTOR SHALL NOTIFY THE ARCHITECT PRIOR TO PROCEEDING WITH THE WORK.
- DO NOT SCALE DRAWINGS. PRINTED DIMENSIONS HAVE PRECEDENCE OVER SCALED DRAWINGS AND LARGE-SCALE OVER SMALL-SCALE DRAWINGS. CONTRACTOR TO DETERMINE FINAL DIMENSION WITH ARCHITECT.
- TYPICAL DETAILS SHALL APPLY TO SITUATIONS OCCURRING ON THE PROJECT THAT ARE THE SAME OR SIMILAR TO THOSE SPECIFICALLY REFERENCED. WHERE NO DETAILS ARE GIVEN, CONSTRUCTION SHALL BE AS SHOWN FOR SIMILAR WORK.

- SEE ARCHITECTURAL, ELECTRICAL, AND MECHANICAL DRAWINGS FOR DETAILS, CONDITIONS, PITS, TRENCHES, PADS, DEPRESSIONS, ROOF / FLOOR OPENINGS, TOP OF WALL ELEVATIONS, STAIRS, SLEEVES, ITEMS TO BE EMBEDDED OR ATTACHED TO STRUCTURAL ELEMENTS, ETC., NOT SHOWN ON THE DRAWINGS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THESE NON-STRUCTURAL ELEMENTS SHOWN ON STRUCTURAL DRAWINGS. THEY ARE FOR GENERAL INFORMATION ONLY.
- COORDINATE FLOOR FINISH INCLUDING, BUT NOT LIMITED TO THE "FLATNESS" AND "LEVELNESS" OF FLOORS. ITEMS TO BE EMBEDDED OR ATTACHED TO STRUCTURAL ELEMENTS, WITHIN THE FLOOR FINISH CONTRACTOR, PROVIDE UNDERLAYMENT / TOPPING WHERE REQUIRED TO PROVIDE A SURFACE ACCEPTABLE FOR INSTALLATION OF FLOOR FINISHES. SEE ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION AND REQUIREMENTS.
- ESTABLISH AND VERIFY ALL OPENINGS AND INSERTS FOR MECHANICAL, ELECTRICAL, AND PLUMBING WITH APPROPRIATE TRADE CONTRACTORS. OPENING SIZES AND LOCATIONS SHOWN FOR DUCTS, PIPE, INSERTS, AND OTHER PENETRATIONS ARE SHOWN FOR GENERAL INFORMATION ONLY AND SHALL BE VERIFIED PRIOR TO FORMING.
- THE EXACT WEIGHTS, DIMENSIONS, AND LOCATIONS OF ALL MECHANICAL UNITS AND ELECTRICAL GEAR SUPPORTED ON STRUCTURAL FRAMING SHALL BE DETERMINED AND COORDINATED BY THE CONTRACTOR PRIOR TO DETAILING THE STRUCTURAL FRAMING SUPPORTING THOSE UNITS. IF THE UNIT WEIGHTS ARE GREATER THAN THE WEIGHTS SHOWN ON THE STRUCTURAL DRAWINGS, THE STRUCTURAL ENGINEER SHALL BE NOTIFIED PRIOR TO DETAILING THE STRUCTURE. UNIT WEIGHTS, DIMENSIONS, AND LOCATIONS SHOWN ON THE STRUCTURAL DRAWINGS ARE APPROXIMATE ONLY AND SHALL NOT BE USED FOR DETAILING THE STRUCTURE.
- PROVIDE TEMPORARY BLOCKOUTS AND TEMPORARY OPENINGS IN THE STRUCTURE AS REQUIRED TO PERMIT INSTALLATION OF ALL WORK. BLOCKOUTS AND TEMPORARY OPENINGS SHALL BE LOCATED, CONFIGURED, DETAILED, AND FILLED IN A MANNER THAT ALTERS NEITHER THE STRENGTH OF THE STRUCTURAL FRAMING NOR THE STRENGTH OF CONNECTIONS. INFILL ALL BLOCKOUTS AND TEMPORARY OPENINGS USING THE MATERIALS SPECIFIED FOR THE FRAMING AT THE LOCATIONS WHERE THE BLOCKOUTS AND OPENINGS OCCUR. SUBMIT DRAWINGS INDICATING THE LOCATIONS, DIMENSIONS, AND DETAILS OF ALL PROPOSED BLOCKOUTS AND OPENINGS AND DETAILS INDICATING THE MANNER IN WHICH THE BLOCKOUTS AND OPENINGS WILL BE FILLED.
- NO HOLES, NOTCHES, BLOCK-OUTS, ETC. ARE ALLOWED IN STRUCTURAL ELEMENTS UNLESS SPECIFICALLY DETAIL ON THE STRUCTURAL DRAWINGS OR APPROVED BY THE STRUCTURAL ENGINEER.
- BEFORE SUBMITTING A PROPOSAL FOR THIS WORK, CONTRACTOR SHALL VISIT THE PREMISES AND BECOME FULLY ACQUAINTED WITH FIELD CONDITIONS. TEMPORARY CONSTRUCTION REQUIRED, QUANTITIES AND TYPE OF EQUIPMENT, ETC. THE PROPOSAL SHALL INCLUDE ALL SUMS REQUIRED TO DO THE WORK.
- ELEMENTS SUCH AS NON-BEARING PARTITIONS, ETC. ATTACHED TO AND/OR SUPPORTED BY THE STRUCTURE SHALL TAKE INTO ACCOUNT DEFLECTIONS AND OTHER STRUCTURAL MOVEMENTS. THE STRUCTURAL FRAMING WAS DESIGNED TO LIMIT DRIFT AND DEFLECTION OF THE STRUCTURAL SYSTEM TO LESS THAN MAY BE MINUTE. MODIFICATION OF DEFLECTIONS LISTED IN THE BUILDING CODE, THE CONTRACTOR SHALL COORDINATE THE WORK OF OTHER TRADES TO ACCOMMODATE THESE DEFLECTIONS AND TO ACCOMMODATE CONSTRUCTION TOLERANCES.
- TOPS OF ALL MASONRY WALLS SHALL BE CONNECTED TO THE UNDERSIDE OF THE STRUCTURAL FRAMING PER DETAILS PROVIDED ON THE STRUCTURAL DRAWINGS. SEE ARCHITECTURAL DRAWINGS FOR LOCATIONS AND DETAILS.
- FIRE PROTECTION FOR ALL STRUCTURAL PARTS SHALL BE PROVIDED AS SPECIFIED BY THE ARCHITECTURAL DRAWINGS. UL FIRE RESISTANCE RATING RESTRAINT CLASSIFICATION AS FOLLOWS:
 - CONCRETE MIX DESIGNS
 - MATERIAL PRODUCT DATA FOR STRUCTURAL MATERIALS
 - CONCRETE REINFORCING
 - ENGINEERED LUMBER
 - CLT/DLT DECKING
 - STEEL FABRICATION AND MISCELLANEOUS METALS
 - STEEL DECK
 - COLD FORMED STEEL FRAMING AND CONNECTIONS

SUBMITTALS

- SUBMITTALS ARE:
 - CONCRETE MIX DESIGNS
 - MATERIAL PRODUCT DATA FOR STRUCTURAL MATERIALS
 - CONCRETE REINFORCING
 - ENGINEERED LUMBER
 - CLT/DLT DECKING
 - STEEL FABRICATION AND MISCELLANEOUS METALS
 - STEEL DECK
 - COLD FORMED STEEL FRAMING AND CONNECTIONS
- SUBMITTALS SHALL BE REVIEWED AND COORDINATED PRIOR TO SUBMITTING TO THE ARCHITECT. EACH SHOP DRAWING SUBMITTED SHALL BE STAMPED INDICATING REVIEW BY THE CONTRACTOR'S PROJECT MANAGER AND REVIEW BY THE ARCHITECT. THE ARCHITECT SHALL NOT BEGIN UNTIL THIS IS COMPLETE. WORK SHALL NOT BEGIN WITHOUT REVIEW BY THE DESIGN PROFESSIONALS.
- SUBMITTALS SHALL BE REVIEWED BY THE DESIGN PROFESSIONALS FOR GENERAL CONFORMANCE WITH DESIGN CONCEPT ONLY. NOTATIONS MADE BY THE DESIGN PROFESSIONALS ON THE SHOP DRAWINGS DO NOT RELIEVE THE CONTRACTOR FROM COMPLYING WITH THE REQUIREMENTS OF THE DRAWINGS.
- FOR ADDITIONAL INFORMATION ON REQUIRED SUBMITTALS, SEE INDIVIDUAL MATERIAL SECTIONS.

DELEGATED DESIGN

- DELEGATED DESIGNS PER SECTION 107.3.4.1 SHALL BE SUBMITTED TO THE BUILDING OFFICIAL AND THE DESIGN PROFESSIONALS AND REVIEWED PRIOR TO INSTALLATION.
- DELEGATED DESIGNS ARE:
 - EXCAVATION, SHORING, AND UNDERPINNING
 - EXTERIOR WALL SYSTEMS
 - CURTAIN WALL AND STOREFRONT SYSTEMS
 - COLD FORMED STEEL FRAMING AND CONNECTIONS
 - STAIRS, ACCESS LADDERS, HANDRAILS, GUARDRAILS, AND GRATING
- ALL DELEGATED DESIGNS SHALL BE SIGNED AND SEALED BY AN ENGINEER LICENSED IN THE PROJECT'S JURISDICTION RESPONSIBLE FOR THE PREPARATION OF THESE DOCUMENTS.

EXISTING CONDITIONS / DEMOLITION

- EXISTING CONDITIONS:
 - EXISTING STRUCTURAL INFORMATION SHOWN WAS OBTAINED FROM EXISTING DRAWINGS DATED SEPTEMBER 5, 1989 BY LEGAT / PSA ARCHITECTS.
 - ALL INFORMATION SHOWN ON THE DRAWINGS RELATIVE TO EXISTING CONDITIONS IS GIVEN AS THE BEST PRESENT KNOWLEDGE. CONTRACTOR TO VERIFY EXISTING INFORMATION, DIMENSIONS, AND SIZES AS REQUIRED TO COMPLETE THEIR WORK. WHERE ACTUAL CONDITIONS CONFLICT WITH THE DRAWINGS, THEY SHALL BE REPORTED TO THE ARCHITECT. NO CLARIFICATION MAY BE REQUESTED. MODIFICATION OF CONSTRUCTION DETAILS SHALL NOT BE MADE WITHOUT WRITTEN APPROVAL OF THE ARCHITECT.
- ALL DEMOLITION SHALL BE CARRIED OUT IN SUCH A WAY TO AVOID DAMAGE TO EXISTING ELEMENTS WHICH ARE TO REMAIN.
- ALL ELEMENTS WHICH ARE TO REMAIN AND WHICH ARE DAMAGED DURING DEMOLITION WORK SHALL BE REPLACED AT NO ADDED COST. CONTRACTOR SHALL PROVIDE AND BE RESPONSIBLE FOR THE PROTECTION AND REPAIR OF ADJACENT EXISTING SURFACES AND AREAS WHICH MAY BE DAMAGED AS A RESULT OF NEW WORK.
- CONTRACTOR SHALL VERIFY ALL EXISTING DIMENSIONS AND CONDITIONS OF EXISTING STRUCTURE AND SITES THAT ARE AFFECTED BY NEW WORK BEFORE PROCEEDING WITH FABRICATION AND CONSTRUCTION.
- ALL CONSTRUCTION IS NEW UNLESS IDENTIFIED AS EXISTING. "E" - THE CONTRACTOR SHALL VERIFY ALL EXISTING BUILDING INFORMATION AND SHALL NOTIFY THE ARCHITECT OF ANY DISCREPANCIES PRIOR TO FABRICATION OF ANY STRUCTURAL COMPONENT. NEW SLABS ARE TO BE AT THE SAME ELEVATIONS AS ADJACENT EXISTING SLABS UN. FOUNDATION ELEVATIONS OR COLUMN LENGTHS SHALL BE ADJUSTED WITH THE APPROVAL OF THE STRUCTURAL ENGINEER TO ACHIEVE MATCHING SLAB ELEVATIONS.
- REINFORCING STEEL IN EXISTING CONCRETE SHALL BE LOCATED PRIOR TO INSTALLATION OF NEW OPENINGS OR CORING OF HOLES IN THE CONCRETE. REINFORCING STEEL MAY BE CUT WITHOUT APPROVAL FROM THE ENGINEER.
- SHORING:
 - SHORING DRAWINGS AND CALCULATIONS BY OTHERS, AS REQUIRED, ARE NOT INCLUDED IN THIS PACKAGE. SHORING DRAWINGS AND STRUCTURAL CALCULATIONS SHALL BE PROVIDED BY THE CONTRACTOR FOR REVIEW.
 - SHORING / UNDERPINNING OF EXISTING BUILDINGS OR IMPROVEMENTS SHALL BE PROVIDED BEFORE EXISTING SUPPORTING WALLS, SLABS, FOUNDATIONS, PAVEMENT, ETC. ARE CUT, MODIFIED, OR REMOVED.

EARTHWORK

- FOUNDATION DESIGN IS BASED ON GEOTECHNICAL REPORT NO. G24.162 DATED NOVEMBER 8, 2024, BY RUBIO ENGINEERING INC. FOLLOW RECOMMENDATIONS IN REPORT FOR ALL FOUNDATION WORK. REPORT IS ON FILE WITH THE ARCHITECT.
- SOIL PROPERTIES:

FROST DEPTH	2 FT (HEATED) 3.5 FT (UNHEATED)
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- SUBGRADE PREPARATION FOR FOOTINGS AND SLABS-ON-GRADE SHALL BE IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE GEOTECHNICAL REPORT AND SHALL BE IN COMPLIANCE WITH THE APPLICABLE REQUIREMENTS OF THE GOVERNING AUTHORITIES HAVING JURISDICTION. THE CONTRACTOR SHALL DIRECT QUESTIONS REGARDING THE SUBGRADE PREPARATION REQUIREMENTS TO THE GEOTECHNICAL ENGINEER.
- ANY TESTS, INSPECTIONS, FIELD OBSERVATIONS, OR APPROVAL FROM THE GEOTECHNICAL ENGINEER SHALL BE PERFORMED PRIOR TO PLACEMENT OF CONCRETE. ALTERATIONS TO SITE PREPARATION OR GRADING SHALL BE REPORTED TO THE GEOTECHNICAL ENGINEER PRIOR TO CONSTRUCTION.

- PROPERTY LINE LOCATIONS INDICATED ON FOUNDATION PLANS ARE APPROXIMATE. SEE ARCHITECTURAL AND/OR SITE DRAWINGS FOR LOCATION OF THE STRUCTURE ON THE SITE.
- ALL EXCAVATIONS SHALL BE PROPERLY AND SAFELY BACKFILLED. DO NOT PLACE BACKFILL BEHIND RETAINING WALLS BEFORE CONCRETE HAS ATTAINED SPECIFIED COMPRESSIVE STRENGTH. CONTRACTOR SHALL BRACE OR PROTECT ALL WALLS BELOW GRADE FROM LATERAL LOADS UNTIL SUPPORTING FLOORS ARE COMPLETELY IN PLACE AND HAVE ATTAINED 7.5-DAY STRENGTH. MINIMUM BACKFILLING IS NOT PERMITTED FOR FOUNDATION WALLS UNTIL SUPPORTED SLAB TOP AND BOTTOM ARE IN PLACE OR THE WALL IS ADEQUATELY BRACED TO RESIST LATERAL LOADS.
- SOIL BEHIND RETAINING WALLS AND BASEMENT WALLS SHALL BE DRAINED TO ELIMINATE HYDROSTATIC PRESSURE BEHIND THE WALL. DESIGN OF SUCH WALL DRAINAGE SYSTEMS IS THE RESPONSIBILITY OF THE CONTRACTOR.
- GROUNDWATER SHALL BE DETEILED DRAINING OF EXCAVATIONS FROM SURFACE WATER, GROUNDWATER, OR SEEPAGE. DETAILS OF GROUNDWATER INFORMATION SHALL BE OBTAINED FROM THE GEOTECHNICAL REPORT. IF GROUNDWATER IS ENCOUNTERED DURING EXCAVATION, PROCEDURES SHALL BE IMPLEMENTED AS RECOMMENDED BY THE GEOTECHNICAL ENGINEER.
- PROVIDE SHORING WHERE THERE IS INSUFFICIENT SPACE FOR STABLE-SLOPED EMBANKMENTS.
- CONTRACTOR SHALL INVESTIGATE SITE DURING CLEARING AND EARTHWORK OPERATIONS FOR FILL MATERIAL OR BURIED STRUCTURES SUCH AS CESSPOOLS, CISTERNS, AND FOUNDATIONS. IF ANY SUCH MATERIAL OR STRUCTURES ARE FOUND, ARCHITECT SHALL BE NOTIFIED IMMEDIATELY.
- ANY REQUIRED IMPORT FILL SHALL HAVE A LOW POTENTIAL FOR EXPANSION AND SHALL BE APPROVED BY THE GEOTECHNICAL ENGINEER PRIOR TO IMPORTING.
- UTILITY LINES SHALL NOT BE PLACED THROUGH OR BELOW FOUNDATIONS WITHOUT THE STRUCTURAL ENGINEER'S APPROVAL. BELOW GRADE UTILITY OR PIPE ELEVATIONS, WHERE SHOWN, ARE INDICATED FOR REFERENCE ONLY. REQUIRED ELEVATIONS SHALL BE DETERMINED BY OTHERS AND COORDINATED WITH THE FOUNDATIONS.
- WHERE GRADE ELEVATIONS ARE APPROXIMATELY EQUAL ON BOTH SIDES OF WALLS, BACKFILL SHALL BE PLACED SO THAT IT IS NOT UNBALANCED BY MORE THAN 2 FEET ON EITHER SIDE.
- ALL REQUIRED BACKFILL AND UTILITY TRENCH BACKFILL WITHIN THE BUILDING AREA SHALL BE COMPACTED IN ACCORDANCE WITH THE GEOTECHNICAL REPORT.

SHALLOW FOUNDATIONS

- SEE THE GEOTECHNICAL REPORT FOR SHALLOW FOUNDATION REQUIREMENTS.
- SHALLOW FOUNDATIONS SHALL HAVE THE FOLLOWING MINIMUM NET ALLOWABLE SERVICE LOAD BEARING PRESSURES:

NET ALLOWABLE BEARING PRESSURE AT SPREAD FOOTING	4000 PSF
NET ALLOWABLE BEARING PRESSURE AT WALL FOOTING	3500 PSF
- FOUNDATION ELEVATIONS SHOWN INDICATE LOCATIONS WHERE ADEQUATE SOIL BEARING PRESSURE IS ANTICIPATED. IF INADEQUATE BEARING CAPACITY IS ENCOUNTERED, CONTACT STRUCTURAL ENGINEER FOR RESOLUTION. BEARING ELEVATIONS ARE ESTIMATED FROM SOIL BORING DATA INDICATED IN THE GEOTECHNICAL REPORT. DETERMINATION OF FINAL BEARING ELEVATIONS AND FIELD VERIFICATION OF ALLOWABLE BEARING PRESSURE SHALL BE MADE BY AN EXPERIENCED, QUALIFIED GEOTECHNICAL ENGINEER PRIOR TO PLACING FOUNDATIONS.
- ALL FOUNDATIONS SHALL BEAR BELOW THE FROST DEPTH, OR LOWER WHERE INDICATED ON FOUNDATION PLAN. IN CASE OF CONFLICT, NOTIFY THE DESIGN PROFESSIONALS IN ADVANCE OF ANY CONSTRUCTION TO ALLOW FOR ADJUSTMENT.
- FOUNDATIONS SHALL BE PLACED ON UNDISTURBED SOIL OR COMPACTED STRUCTURAL FILL, AND CLEAN AND FREE OF LOOSE DEBRIS AND STANDING WATER AT TIME OF CONCRETE PLACEMENT.
- WHERE FOUNDATIONS BEAR ON ROCK, FOUNDATIONS SHALL BEAR ON THAT ROCK OR ON LEAN CONCRETE FILL.
- NEW FOOTING BEARING ELEVATIONS SHALL MATCH ADJACENT EXISTING FOOTING BEARING ELEVATIONS WHERE OCCURRING UN.
- THE SLOPE BETWEEN THE LOWER EDGES OF ADJACENT FOOTINGS SHALL NOT EXCEED 45 DEGREES WITH THE HORIZONTAL UN. IN THE GEOTECHNICAL REPORT, CONTACT STRUCTURAL ENGINEER WHERE ADEQUATE SLOPE IS NOT ACHIEVED.

REINFORCING STEEL

- ALL REINFORCING STEEL SHALL BE DETAILED AND PLACED IN CONFORMANCE WITH ACI 318, "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE", AND ACI 301, "SPECIFICATIONS FOR STRUCTURAL CONCRETE", UN.
- REINFORCING STEEL UN

	ASTM A615, GR 60	Fy=60 KSI
WELDED WIRE REINFORCING	ASTM A1064	Fy=65 KSI
STEEL WIRE	ASTM A1064	Fy=60 KSI
- CONCRETE REINFORCING STEEL SHALL CONFORM TO THE FOLLOWING STANDARDS:

CONCRETE EXPOSURE	MEMBER	REINFORCEMENT	COVER (IN)
CAST AGAINST AND PERMANENTLY IN CONTACT WITH GROUND	ALL	ALL	3
EXPOSED TO WEATHER OR IN CONTACT WITH GROUND	ALL	#6 TO #18	2
		#5 AND SMALLER	1 1/2
		#14 & #18	1 1/2
NOT EXPOSED TO WEATHER OR IN CONTACT WITH GROUND	ALL	#11 AND SMALLER	3/4
	SLABS, JOISTS, AND WALLS		
	BEAMS, COLUMNS, PEDESTALS, S, AND TENSION TIES	PRIMARY REINFORCING: STIRRUPS, TIES, SPIRALS, AND HOOPS	1 1/2
	BOUNDARY ELEMENTS	ALL	1 1/2
OTHER	PARKING SLABS	TOP BARS	1 1/2
		BOTTOM BARS	1

- MINIMUM CONCRETE COVER SHALL BE PROVIDED AS FOLLOWS TO THE OUTERMOST REINFORCING BARS:
- FIELD BENDING OF REINFORCING STEEL IS NOT PERMITTED UN.
- WELDING OF REINFORCING STEEL OTHER THAN A708 IS PROHIBITED. WELDING OF REINFORCING BARS SHALL BE IN ACCORDANCE WITH AWS D1.4 OR D1.8.
- HEADED STUDS AND DEFORMED BAR ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
- SUPPORTS AND THE WIRE FOR COATED REINFORCING SHALL BE PLASTIC PROTECTED. SUPPORTS AND THE WIRE FOR STAINLESS OR GALVANIZED REINFORCING SHALL BE STAINLESS OR GALVANIZED STEEL PROTECTED RESPECTIVELY. SUPPORTS AND THE WIRE ARE REQUIRED TO PROVIDE 1 1/2" MINIMUM CLEAR SPACING BETWEEN REINFORCING STEEL AT SPICES LOCATIONS.
- ALL WELDED WIRE REINFORCING SHALL BE LAP SPLICED 2 PANELS (1'-0" MIN).
- SPLICING:
 - SPLICES IN REINFORCING STEEL SHALL BE MADE ONLY AT THOSE LOCATIONS WHERE SPLICING IS REQUIRED. SPLICING SHALL BE DETAILED ON THE REINFORCING STEEL PLACING DRAWINGS THAT HAVE BEEN REVIEWED AND APPROVED BY THE STRUCTURAL ENGINEER. ALL SPLICES SHALL BE CLASS 3 TENSION LAP SPLICES UN.
 - MECHANICAL SPLICE COUPLERS MAY BE USED INSTEAD OF TENSION LAP SPLICES AT THE CONTRACTOR'S OPTION AT ANY LOCATION. MECHANICAL SPLICE COUPLERS MUST BE USED WHERE SPLICING #14 AND LARGER BARS, INCLUDING WHERE SPLICING #14 AND LARGER BARS TO #11 AND SMALLER BARS. STAGGER MECHANICAL SPLICES IN ADJACENT BARS 30" MINIMUM.
 - COMPRESSION LAP SPLICES MAY BE USED ONLY AT THOSE LOCATIONS WHERE SUCH SPLICES ARE SPECIFICALLY INDICATED. STAGGER SPLICES WHERE REQUIRED TO PROVIDE 1 1/2" MINIMUM CLEAR SPACING BETWEEN REINFORCING STEEL AT SPICES LOCATIONS.
- ALL HOOKS SHALL BE STANDARD HOOKS OR STANDARD STIRRUP HOOKS UN. STANDARD STIRRUP HOOKS SHALL HAVE CONTINUOUS BAR AT INSIDE CORNER OF HOOK.
- VERTICAL REINFORCING STEEL IN CONCRETE AND MASONRY WALLS WITH ONE LAYER OF REINFORCING BARS SHALL BE INSTALLED IN THE CENTER OF THE WALL UN.
- STANDARD STIRRUP HOOKS FOR #3, #4, AND #5 BARS SHALL BE PROVIDED IN SLABS LESS THAN 9" THICK.
- DOWELS SHALL MATCH GRADE, SIZE, SPACING, AND QUANTITY OF LAPPED REINFORCING STEEL UN. EXTEND ALL DOWELS FOR FULL DEPTH OF SUPPORTING ELEMENT AND PROVIDE HOOKS UN. DOWELS SHALL NOT BE POST-INSTALLED INTO FRESH CONCRETE.
- HEADED DEFORMED BARS MAY ONLY BE USED ON #11 AND SMALLER BARS. THREADED OR FORGED HEADS CAN BE USED AT THE FABRICATOR'S DISCRETION.
- FIELD CUTTING OF REINFORCING STEEL IS PROHIBITED UNLESS INDICATED ON THE REINFORCING STEEL PLACING DRAWINGS.
- HEATING OF BARS FOR BENDING IS PROHIBITED.

- REINFORCING STEEL PLACING DRAWINGS SHALL BE PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF ACI 315. THE PLACING DRAWINGS SHALL SHOW ALL INFORMATION NECESSARY TO FABRICATE AND PLACE THE REINFORCING STEEL.
- REINFORCING STEEL SPACINGS ARE CENTER-TO-CENTER DIMENSIONS UN. REINFORCING STEEL SHOWN IN SECTION PERPENDICULAR TO THE CUT ARE CONTINUOUS UN.
- THE SPACING OF ALL REINFORCING STEEL MUST BE COMPUTED BY THE REINFORCING STEEL DETAILER AND MUST BE INDICATED ON THE PLACING DRAWINGS. THE EXTENT ARROWS MUST BE USED TO CLEARLY INDICATE THE LOCATIONS WHERE GROUPS OF REINFORCING BARS ARE TO BE INSTALLED.
- SOIL BEHIND RETAINING STEEL PLACEMENT TOLERANCES SHALL BE INDICATED ON ALL REINFORCING STEEL PLACING DRAWINGS. PLACING DRAWINGS THAT DO NOT SHOW SUFFICIENT INFORMATION NEEDED TO PLACE THE REINFORCING STEEL WILL BE REJECTED.

CAST-IN-PLACE CONCRETE

- ALL CONCRETE WORK SHALL CONFORM TO THE REQUIREMENTS OF ACI 318, BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE, AND ACI 301, SPECIFICATIONS FOR STRUCTURAL CONCRETE UN.
- CONCRETE MATERIALS SHALL CONFORM TO:

PORTLAND LIMESTONE CEMENT	ASTM C595, TYPE II
FLY ASH	ASTM C618, TYPE C OR F
SLAB CEMENT	ASTM C589
FINE AND COARSE AGGREGATE	ASTM C33
WATER	POTABLE
AIR-ENTRAINING ADMIXTURE	ASTM C260
WATER REDUCING ADMIXTURE	ASTM C494
- CONCRETE STRENGTHS SHALL CONFORM TO:

LOCATION	f _c AT 28 DAYS (PSI)	MAX PERMITTED W/C	EXPOSURE CLASS
ALL FOUNDATION CONCRETE UN	4500	0.45	F2
SLAB-ON-GRADE UN	3000	0.55	F0

- AIR ENTRAINMENT:

NOMINAL MAXIMUM AGGREGATE SIZE	REQUIRED AIR CONTENT PER EXPOSURE CATEGORY	
3/8"	F1 8% F2 7.5%	
1/2"	5.5%	7%
3/4"	5%	6%
1"	4.5%	6%

 - CONCRETE IN THESE LOCATIONS SHALL BE AIR ENTRAINED WITH THE APPROPRIATE PERCENTAGE OF AIR CONTENT LISTED IN THE TABLE ABOVE AS APPLICABLE FOR THE INDICATED EXPOSURE CLASS AND NOMINAL MAXIMUM AGGREGATE SIZE IN THE CONCRETE MIX.
- ALL FOUNDATION ELEMENTS SHALL BE CENTERED UNDER WALLS, PIERS, OR COLUMNS UN.
- "ROUGH JOINTS" ARE JOINTS ROUGHENED TO AN AMPLITUDE OF 1/4" AND FREE AND CLEAN OF LAITANCE. PROVIDE ROUGH JOINTS AT ALL CONSTRUCTION JOINTS UN.
- CONTRACTOR SHALL SUBMIT PROPOSED LOCATIONS OF ALL CONSTRUCTION JOINTS WHERE JOINTS ARE NOT INDICATED ON THE DRAWINGS.
- CONSTRUCTION JOINTS IN CAST-IN-PLACE CONCRETE SHALL BE LOCATED WITHIN THE MIDDLE THIRD OF SPAN. PROPOSED CONSTRUCTION JOINT LOCATIONS SHALL BE SHOWN ON REINFORCING STEEL PLACING DRAWINGS. ANY STOP IN CONCRETE WORK MUST BE MADE WITH VERTICAL BULKHEADS AND HORIZONTAL KEYS UN. ALL REINFORCING TO BE CONTINUOUS THROUGH JOINTS UN.
- HORIZONTAL JOINTS THROUGH CAST-IN-PLACE CONCRETE FRAMING ARE NOT PERMITTED EXCEPT WHERE SPECIFICALLY INDICATED ON THE STRUCTURAL DRAWINGS.
- JOINTS ABUTTING EXISTING CONCRETE CONSTRUCTION SHALL BE ROUGH JOINTS UN.
- INSTALLATION OF ELECTRICAL AND/OR PIPING IN OR THROUGH CONCRETE COLUMNS AND WALLS IS PROHIBITED UNLESS APPROVED BY THE STRUCTURAL ENGINEER PRIOR TO INSTALLATION. INSTALLATION OF PIPING IN CAST-IN-PLACE CONCRETE IS PROHIBITED UNLESS APPROVED BY STRUCTURAL ENGINEER PRIOR TO INSTALLATION. DRAWINGS SHALL BE SUBMITTED FOR REVIEW SHOWING PROPOSED PLACEMENT OF ELECTRICAL CABLE AND CONDUIT IN SLABS. THOSE DRAWINGS SHALL SHOW SIZES AND DIMENSIONS OF ALL CABLE AND CONDUIT. THE REQUIRED TEST DATA WILL BE RETURNED WITHOUT REVIEW.
- PROJECTING CORNERS OF BEAMS, WALLS, COLUMNS, ETC. SHALL BE FORMED WITH A 3/4" CHAMFER UN ON ARCHITECTURAL DRAWINGS.
- SLOPE SLABS TO DRAINS. SEE ARCHITECTURAL AND MEP DRAWINGS FOR DRAIN LOCATIONS AND SLOPE REQUIREMENTS. SLAB THICKNESSES SHOWN ON DRAWINGS ARE MINIMUMS.
- NOTIFY THE ARCHITECT 48 HOURS MINIMUM PRIOR TO ALL POURS.
- CONTRACTOR SHALL SURVEY ALL CONCRETE WORK WITHIN 48 HOURS OF PLACING CONCRETE TO ENSURE PLACEMENT IS IN ACCORDANCE WITH PROJECT REQUIREMENTS. CORING OF CONCRETE IS NOT PERMITTED UNLESS APPROVED BY THE STRUCTURAL ENGINEER. SUBMIT LOCATIONS OF PROPOSED CONCRETE CORES.
- REINFORCING STEEL SHALL NOT BE REMOVED WHEN DRILLING CONCRETE.
- ADHERE TO ACI 308R AND ACI 308R FOR HOT AND COLD WEATHER CONCRETE CONSTRUCTION.
- DRYPACK AND GROUT SHALL HAVE A MINIMUM 28-DAY STRENGTH OF 7000 PSI.
- THE PROPOSED MATERIALS AND MIX DESIGN SHALL BE FULLY DOCUMENTED AND REVIEWED BY THE TESTING AND INSPECTION AGENCY. RESPONSIBILITY FOR OBTAINING THE REQUIRED DESIGN STRENGTH IS THE CONTRACTOR'S. SUBMIT TEST DATA ON EACH PROPOSED MIX FOR REVIEW IN ACCORDANCE WITH THE APPLICABLE CODE. MIX DESIGNS SUBMITTED WITHOUT THE REQUIRED TEST DATA WILL BE RETURNED WITHOUT REVIEW.
- SEE ARCHITECTURAL DRAWINGS FOR DIMENSIONS, LOCATIONS, AND DETAILS OF ALL ARCHITECTURAL FEATURES IN THE CONCRETE. SEE ARCHITECTURAL DRAWINGS AND PROJECT SPECIFICATIONS FOR REQUIREMENTS FOR ALL CONCRETE FINISHES.

STEEL

- STRUCTURAL STEEL SHALL BE DETAILED IN ACCORDANCE WITH THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION, INC. (AISC) "DETAILING GUIDE FOR STRUCTURAL STEEL" AND FABRICATED AND ERECTED IN ACCORDANCE WITH THE "SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS".
- STRUCTURAL STEEL SHALL CONFORM TO ASTM STANDARDS AS NOTED BELOW:

WIDE FLANGE AND WT SHAPES	ASTM A992	Fy=50 KSI
CHANNEL SHAPES	ASTM A992	Fy=50 KSI
ANGLE SHAPES	ASTM A572	Fy=50 KSI
PIPE SECTIONS	ASTM A53, GR B	Fy=35 KSI
HSS SECTIONS, ROUND	ASTM A500, GR C	Fy=50 KSI
HSS SECTIONS, SQUARE	ASTM A500, GR C	Fy=50 KSI
PLATES	ASTM A572	Fy=50 KSI
ANCHOR RODS	ASTM F1554, GR 36	Fy=36 KSI
HIGH STRENGTH BOLTS	ASTM F3125, GR A25	Fu=120 KSI
HIGH STRENGTH TWIST-OFF BOLTS	ASTM F3125, GR F1852	Fu=120 KSI
HEAVY HEX NUTS	ASTM A563	
WASHERS FOR HIGH STRENGTH BOLTS	ASTM F436	
HEADED STUD ANCHORS (HSA)	ASTM A108, TYPE B	
ELECTRODES FOR ARC WELDING	AWS 5.1, E70XX	
HIGH STRENGTH BOLTS SHALL BE INSTALLED IN ACCORDANCE WITH AISC "SPECIFICATIONS FOR STRUCTURAL JOINTS USING HIGH-STRENGTH BOLTS". SEE DETAILS FOR BOLT SIZE AND MATERIAL ASTM DESIGNATION.		
ALL BOLTED JOINTS SHALL BE GRABED AND 25% BEARING TYPE BOLTS UN. ALL BOLTS SHALL BE INSTALLED TO A MINIMUM SNUG TIGHT CONDITION UN.		
FULLY TENSIONED HIGH STRENGTH BOLTS AND SLIP CRITICAL HIGH STRENGTH BOLTS SHALL USE TENSION CONTROL. "TWIST-OFF" BOLTS OR BE INSTALLED USING THE TURN OF THE NUT METHOD.		
FIELD CONNECTIONS SHALL BE WELDED OR BOLTED. SHOP CONNECTIONS SHALL BE WELDED UN. WELDS INDICATED WITH A SHOP WELD SYMBOL MAY BE MADE IN THE FIELD UN. WELDS WITH THE WELDABLE REQUIREMENTS OF THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION SHALL BE CLEARLY SHOWN ON THE SHOP DRAWINGS. WELDS SHALL BE DESIGNED TO BE FULLY EQUIVALENT IN STRENGTH TO BOLTED CONNECTIONS DETAILED TO MINIMIZE FIELD WELDING.		
WELD LENGTHS INDICATED ON THE DRAWINGS ARE THE NET EFFECTIVE LENGTH REQUIRED, WHERE WELD LENGTH IS NOT SPECIFIED, PROVIDE WELD ALONG ENTIRE INTERSECTION OF THE JOINTS UN. WHERE FILLET WELD SYMBOL IS GIVEN WITHOUT INDICATION OF SIZE, USE MINIMUM WELD SIZE AS SPECIFIED IN AISC 360, TABLE J2.4.		

- ALL WELDING OF STRUCTURAL STEEL SHALL BE PERFORMED BY CERTIFIED WELDERS WITH EXPERIENCE AND CERTIFICATION IN THE TYPES OF WELDING INDICATED. WELDERS SHALL HAVE BEEN RECENTLY QUALIFIED AS PRESCRIBED IN "QUALIFICATION PROCEDURES FOR WELDERS" (NOT THE AMERICAN WELDING SOCIETY (AWS)).
- BEAMS SHALL BE CAMBERED UPWARD WHERE SHOWN ON THE DRAWINGS. WHERE NO UPWARD CAMBER IS INDICATED, ANY MILL CAMBER SHALL BE DETAILED UPWARD IN THE BEAMS.
- SPLICING OF STEEL MEMBERS WHERE NOT DETAILED ON THE DRAWINGS IS PROHIBITED WITHOUT THE PRIOR APPROVAL OF THE STRUCTURAL ENGINEER AS TO LOCATION, TYPE OF SPICE, AND CONNECTION TO BE MADE.
- CONNECTIONS BETWEEN STEEL AND CONCRETE IN STRUCTURAL STEEL NOT COVERED WITH CONCRETE, FIREPROOFING, MASONRY, OR AT CONTACT SURFACES AT HIGH STRENGTH BOLTS.
- ALL STEEL EXPOSED TO WEATHER OR AS NOTED ON PLAN SHALL BE HOT-DIP GALVANIZED AFTER FABRICATION IN ACCORDANCE WITH ASTM A123. GRABED AREAS TO BE TOUCHED UP WITH COLD GALVANIZING COMPOUND IN ACCORDANCE WITH ASTM A780.
- ALL GALVANIZED HOLLOW SECTIONS SHALL HAVE WELDED CAP PLATES TO SEAL EXPOSED ENDS.
- CUTS, HOLES, OPENINGS, ETC. REQUIRED IN STRUCTURAL STEEL MEMBERS FOR THE WORK OF OTHER TRADES SHALL BE SHOWN ON THE SHOP DRAWINGS. BURNING OR TORCHING OF HOLES, CUTS, AND OTHER FIELD MODIFICATIONS SHALL NOT BE ALLOWED, EXCEPT BY WRITTEN AUTHORIZATION FROM THE STRUCTURAL ENGINEER.
- SEE ARCHITECTURAL, MECHANICAL, ELECTRICAL, ETC. FOR MISCELLANEOUS STEEL NOT DETAILED SPECIFICALLY ON THE STRUCTURAL DRAWINGS.
- GROUT FOR BASE AND BEARING PLATES SHALL BE A NON-SHRINK, NON-METALLIC PRODUCT. MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS SHALL BE 10,000 PSI. INSTALL GROUT PRIOR TO APPLYING SIGNIFICANT LOADING TO MEMBER.
- THE STRUCTURAL STEEL FABRICATOR SHALL FURNISH SHOP DRAWINGS OF ALL STRUCTURAL STEEL FOR REVIEW AND APPROVAL BEFORE FABRICATION.

ARCHITECTURALLY EXPOSED STRUCTURAL STEEL (AESS)

- WHERE INDICATED ON THE CONSTRUCTION DOCUMENTS, STEEL MEMBERS AND THEIR CONNECTIONS SHALL BE AESS.
- SEE ARCHITECTURAL DRAWINGS FOR AESS CATEGORY AND ANY ADDITIONAL REQUIREMENTS. SEE AISC 303, TABLE 10.1 FOR AESS CATEGORY DEFINITIONS.
- PREPARE, FABRICATE, AND ERECT ALL AESS MEMBERS IN ACCORDANCE WITH AISC 303, SECTION 10.
- WHERE AESS CATEGORY IS NOT INDICATED ON CONSTRUCTION DOCUMENTS, GENERAL CONTRACTOR TO VERIFY REQUIREMENTS WITH ARCHITECT.

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CROSS-LAMINATED TIMBER (CLT)

- PRODUCT SHALL BE MERCER CLT PANELS OR APPROVED EQUIVALENT. PANELS SHALL BE MANUFACTURED IN ACCORDANCE WITH ANSI/APA PRG 320.
- MATERIAL & GRADE: ALL CLT PANELS LENGTH TO BE AS SHOWN ON THE PLANS OR GREATER.
- SEE PLANS FOR PANEL THICKNESS AND SPANS.
- CLT PANELS SHALL BE ORIENTED WITH EXTERIOR LAYERS PERPENDICULAR TO SUPPORTS UON.
- SEE ARCHITECTURAL DRAWINGS FOR SURFACE FINISH REQUIREMENTS AT EXPOSED FACES. ALL NONEXPOSED FACES SHALL BE OF NONVISIBLE QUALITY (NSI). PANELS SHALL BE ARCHITECTURAL (EXPOSED) WITH LAYUPS AS NOTED ON THE ARCHITECTURAL PLAN, OF THE STRENGTHS INDICATED AND MINIMUM ALLOWABLE DESIGN PROPERTIES.
- ALL PANEL COMPONENTS MUST BE A MINIMUM WIDTH OF 4 FEET AND CONTINUOUS FROM SUPPORT-TO-SUPPORT UON.
- CLT SHALL BE PROTECTED DURING TRANSPORTATION AND STORAGE AGAINST ANY DAMAGE AND WEATHER. FOLLOW THE MANUFACTURER'S WRITTEN INSTRUCTIONS FOR PACKAGING, TRANSPORT, AND STORAGE.
- PROTECT ALL EDGES OF CLT FROM DIRECT CONTACT WITH CONCRETE, MASONRY, OR WEATHER IN THE INSTALLED STATE.
- PANEL LIFTING CONNECTORS SHALL NOT DAMAGE THE PANEL. HOLES IN EXPOSED PANEL FACES MUST BE PLUGGED PER ARCHITECTURAL SPECIFICATIONS.
- CUTTING AND DRILLING OF CLT PANELS IN THE FIELD SHALL NOT BE PERMITTED WITHOUT THE WRITTEN CONSENT OF THE ARCHITECT.
- MANUFACTURER SHALL SUBMIT SHOP DRAWINGS FOR REVIEW PRIOR TO FABRICATION. DRAWINGS SHALL INCLUDE THE FOLLOWING INFORMATION:
 - PANEL MAKEUP DESIGNATIONS INCLUDING TOTAL THICKNESS, LAMINATION THICKNESS, F_u, E_u, AND V_u FOR BOTH THE MAJOR AND MINOR DIRECTIONS.
 - PANEL LAYOUT INCLUDING ORIENTATION, PANEL LENGTHS AND WIDTHS, AND JOINT IDENTIFICATION (SPINE OR LAP).
 - CUTS, HOLES, OR NOTCHES: PANEL SHALL NOT BE FIELD CUT OR TRIMMED WITHOUT STRUCTURAL ENGINEER REVIEW.
 - ERECTION DETAILS AND INSTRUCTIONS.
- THE PANEL SHALL MEET THE REQUIRED ASSEMBLY FIRE RATING WHERE NOTED ON THE ARCHITECTURAL DRAWINGS.
- SELF-DRILLING SCREWS FOR WOOD-TO-WOOD AND WOOD-TO-STEEL CONNECTIONS SHALL BE AS SHOWN ON THE STRUCTURAL DRAWINGS FROM THE FOLLOWING APPROVED MANUFACTURERS.

SCREW TYPE	MANUFACTURER	EVALUATION REPORT
SDS SERIES WOOD SCREW	SIMPSON STRONG-TIE	ICC ESR-2236
SDWS SERIES WOOD SCREW	SIMPSON STRONG-TIE	IAMPO ER-0192
SWG ASSY STRUCTURAL SCREW	MyTIC® TIMBER CONNECTORS	ICC ESR-3178 & 3179
- THE SUDDEN APPLICATION OF HEAT TO A BUILDING IN COLD WEATHER CAN RAPIDLY CHANGE THE MOISTURE CONTENT OF CLT MEMBERS. THIS CAN AFFECT THE STRUCTURAL INTEGRITY AND VISUAL AESTHETICS OF THESE MEMBERS. IT IS IMPORTANT THAT CARE IS TAKEN DURING TRANSIT, STORAGE, AND THROUGHOUT ALL STAGES OF CONSTRUCTION TO AVOID RAPID CHANGES IN MOISTURE CONTENT. CONSULT CLT MANUFACTURER.

GLUED-LAMINATED CONSTRUCTION

- MATERIALS, MANUFACTURE, AND QUALITY CONTROL SHALL BE IN CONFORMANCE WITH ANSI/APA STANDARD A190.1, ASTM D3073, AND AITC 117.

SPECIES	DOUGLAS FIR
STRESS CLASSIFICATION	24F-V8
EXTREME FIBER BENDING, TENSION	2400 PSI
EXTREME FIBER BENDING, COMPRESSION	2400 PSI
HORIZONTAL SHEAR	265 PSI
MODULUS OF ELASTICITY, E	1800 PSI
- LUMBER FOR LAMINATING SHALL COMPLY WITH THE FOLLOWING FOR BEAMS:

SPECIES	DOUGLAS FIR
STRESS CLASSIFICATION	24F-V8
EXTREME FIBER BENDING, TENSION	2400 PSI
EXTREME FIBER BENDING, COMPRESSION	2400 PSI
HORIZONTAL SHEAR	265 PSI
MODULUS OF ELASTICITY, E	1800 PSI
- THE MAXIMUM MOISTURE CONTENT OF THE WOOD AT THE TIME OF GLUING SHALL NOT EXCEED 10% FOR PROJECTS LOCATED IN COASTAL AREAS, 12% FOR PROJECTS LOCATED IN INTERIOR VALLEYS, OR 10% FOR PROJECTS LOCATED IN DESERT AREAS. WITH THE GEOGRAPHICAL AREAS AS DETERMINED BY THE AREA HAVING JURISDICTION. MOISTURE CONTENT OF THE WOOD FOR MEMBERS EXPOSED TO DIRECT SUNLIGHT IN THE FINISHED STRUCTURE SHALL NOT EXCEED 10% AT THE TIME OF GLUING. THE MINIMUM MOISTURE CONTENT SHALL NOT BE LESS THAN 7%. THE RANGE OF MOISTURE CONTENT OF LAMINATIONS ASSEMBLED INTO A SINGLE MEMBER SHALL NOT EXCEED 5% AT THE TIME OF GLUING.
- ALL GLULAM BEAMS AND COLUMNS HAVE BEEN OVERSIZED FOR A 1-HOUR FIRE CHAR RATING PER NDS CHAPTER 16. GLULAM MANUFACTURER/SUPPLIER TO PROVIDE ADDITIONAL TENSION/COMPRESSION LAMINATIONS ON MEMBERS TO ACCOUNT FOR CHAR RATING.
- THOSE PORTIONS OF GLUED-LAMINATED TIMBERS WHICH FORM THE STRUCTURAL SUPPORTS FOR THE BUILDING AND ARE EXPOSED TO WEATHER AND NOT PROPERLY PROTECTED BY A ROOF, EAVES, OVERHANGS, OR SIMILAR COVERING SHALL BE TREATED WITH AN APPROVED PRESERVATIVE.
- ADHESIVES SHALL MEET THE REQUIREMENTS OF ASTM D2559 FOR WET SERVICE CONDITION. TEMPERATURE OF LUMBER IN SERVICE SHALL NOT EXCEED 150°F.
- A COAT OF END SEALER SHALL BE APPLIED TO THE ENDS OF ALL MEMBERS AS SOON AS PRACTICAL AFTER END TRIMMING. SURFACES OF THE MEMBERS SHALL BE SEALED WITH A PENETRATING SEALER.
- MEMBERS SHALL BE PROTECTED DURING CONSTRUCTION.
- EACH MEMBER SHALL BE STAMPED WITH A QUALITY MARK AND AN IDENTIFYING MARK INDICATING SPECIES OF LUMBER, GRADE, TYPE OF GLUE, EXTREMES OF MOISTURE CONTENT, AND COMBINATION SYMBOL INDICATING CONFORMANCE WITH THE ABOVE NOTED PRODUCT STANDARD.
- ALL GLUED-LAMINATED TIMBER SHALL BE CONTINUOUSLY INSPECTED DURING FABRICATION BY A GLUE FABRICATION INSPECTOR. INSTALLATION OF ALL TIMBER CONNECTORS SHALL BE INSPECTED BY A QUALIFIED INSPECTOR.
- SHOP DRAWINGS SHALL BE SUBMITTED FOR REVIEW BY THE STRUCTURAL ENGINEER PRIOR TO FABRICATION.
- LAMINATED WOOD SUPPLIER SHALL FURNISH ALL CONNECTION HANGERS AND HARDWARE.
- GLULAM APPEARANCE GRADE TO BE PREMIUM AT ALL COLUMNS AND ARCHITECTURAL AT ALL BEAMS.
- ALL WOOD-TO-WOOD AND WOOD-TO-STEEL CONNECTIONS NOT SPECIFICALLY DETAILED ON THE CONTRACT DOCUMENTS SHALL BE DESIGNED BY THE STRUCTURAL WOOD SUPPLIER AND COORDINATED WITH THE STRUCTURAL STEEL SUPPLIER.
- ALL ERECTION BRACING SHALL BE DESIGNED BY THE FABRICATOR'S ENGINEER LICENSED IN THE PROJECT'S JURISDICTION.

POST-INSTALLED ANCHORS

- BASIS OF DESIGN ANCHORS:

INSTALLATION CONDITION	ANCHOR TYPE
EXPANSION ANCHORS INTO CONCRETE	HILTI KWIK BOLT TZ2 (ESR-4266)
SCREW ANCHORS > 1/4"Ø INTO CONCRETE	HILTI KWIK HUS-EZ (ESR-3027)
ADHESIVE ANCHORS INTO CONCRETE	HILTI SAFE-SET SYSTEM w/ HIT-HY 200 V3 AND HIT-Z ROD (ESR-4868) or HILTI SAFE-SET SYSTEM w/ HIT-HY 200 V3 AND HAS-E THREADED ROD (ESR-4868) or HILTI SAFE-SET SYSTEM w/ HIT-RE 500 V3 AND HAS-E THREADED ROD (ESR-3814)
EXPANSION ANCHORS INTO GROUTED CMU	HILTI KWIK TZ2 (ESR-4661)
SCREW ANCHORS > 1/4"Ø INTO GROUTED CMU	HILTI KWIK HUS-EZ (ESR-3056)
SCREW ANCHORS > 1/4"Ø INTO CONCRETE OR GROUTED CMU	HILTI KWIK-CON II+
ADHESIVE ANCHORS IN GROUTED CMU OR SOLID BRICK	HILTI HIT-HY 270 SYSTEM w/ HAS-E THREADED ROD AND APPROPRIATE SCREEN TUBE (ESR-4144)
ADHESIVE ANCHORS INTO HOLLOW CMU, BRICK OR MULTI-WYTHE BRICK WALLS	HILTI HIT-HY 270 SYSTEM w/ HAS-E THREADED ROD AND APPROPRIATE SCREEN TUBE (ESR-4144)
ADHESIVE DOWELING FOR ANCHORING REINFORCING BARS INTO (E) CONCRETE	HILTI SAFE-SET SYSTEM w/ HIT-HY 200 V3 ADHESIVE (ESR-4868) or HILTI SAFE-SET SYSTEM w/ HIT-RE 500 V3 ADHESIVE (ESR-3814)
POWDER-ACTUATED FASTENERS (PAFs) IN CONCRETE	HILTI X-U FASTENERS (ESR-2269)
- ALTERNATIVE ANCHORS MAY BE USED IF APPROVED IN WRITING BY THE STRUCTURAL ENGINEER. THE CONTRACTOR SHALL SUBMIT CALCULATIONS SIGNED AND SEALED BY AN ENGINEER LICENSED IN THE PROJECT'S JURISDICTION VERIFYING PROPOSED ALTERNATIVE ANCHORS WILL PROVIDE THE SAME OR GREATER LOAD-CARRYING CAPACITY AS THE SPECIFIED ANCHORS. THE CONTRACTOR SHALL SUBMIT EVALUATION REPORTS. EACH ANCHOR CONFIGURATION SHALL BE EVALUATED AND COMPARED TO THE SPECIFIED ANCHOR.
- CRACKED CONCRETE IS ASSUMED FOR ALL ANCHORAGE DESIGN CONDITIONS UNLESS IT CAN BE DEMONSTRATED THROUGH ENGINEERING ANALYSIS THAT THE CONCRETE REMAINS UNCRACKED DURING THE GOVERNING ULTIMATE LOAD STATE.
- POST-INSTALLED ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S PRINTED INSTALLATION INSTRUCTIONS.
- THE CONTRACTOR SHALL ARRANGE FOR AN ANCHOR MANUFACTURER'S REPRESENTATIVE TO PROVIDE ONSITE INSTALLATION TRAINING FOR EACH SPECIFIED ANCHOR TYPE. THE STRUCTURAL ENGINEER SHALL RECEIVE DOCUMENTATION VERIFYING ALL OF THE CONTRACTOR'S PERSONNEL WHO INSTALL ANCHORS HAVE BEEN TRAINED PRIOR TO COMMENCEMENT OF INSTALLING ANCHORS.
- INSTALLATION OF ADHESIVE ANCHORS SHALL BE PERFORMED BY PERSONNEL CERTIFIED BY AN APPROVED CERTIFICATION PROGRAM. CERTIFICATION SHALL INCLUDE WRITTEN AND PERFORMANCE TESTS IN ACCORDANCE WITH THE ACI/CRSI ADHESIVE ANCHOR INSTALLER CERTIFICATION PROGRAM OR EQUIVALENT. THE ACCEPTABILITY OF CERTIFICATIONS OTHER THAN THE ACI/CRSI ADHESIVE INSTALLER CERTIFICATION WILL BE DETERMINED BY THE STRUCTURAL ENGINEER.
- CONCRETE SHALL HAVE ACHIEVED DESIGN STRENGTH PRIOR TO INSTALLING POST-INSTALLED ANCHORS. ADHESIVE ANCHORS SHALL BE INSTALLED IN CONCRETE THAT HAS CURED FOR A MINIMUM OF 21 DAYS.
- ANCHOR CAPACITY IS DEPENDENT UPON SPACING BETWEEN ANCHORS AND PROXIMITY OF ANCHORS TO EDGES OF CONCRETE OR MASONRY. INSTALL ANCHORS IN ACCORDANCE WITH SPACING AND EDGE CLEARANCES INDICATED ON THE DRAWINGS.
- POST-INSTALLED ANCHORS AND DOWELS SHALL BE INSTALLED IN A MANNER THAT DOES NOT DAMAGE REINFORCING STEEL. CONDUIT OR OTHER EMBEDDED ITEMS. REINFORCING STEEL SHALL BE LOCATED BY NON-DESTRUCTIVE MEANS PRIOR TO DRILLING HOLES. PLATES AND BRACKETS THROUGH WHICH ANCHORS WILL BE INSTALLED SHALL NOT BE FABRICATED UNTIL AFTER REINFORCING STEEL IS LOCATED AND ANCHOR LOCATIONS ARE ADJUSTED. CONTRACTOR SHALL NOTIFY STRUCTURAL ENGINEER TO OBTAIN ALTERNATIVE ANCHOR LAYOUT WHERE ANCHORS MUST BE RELOCATED TO AVOID INTERFERENCE WITH REINFORCING STEEL.
- ADHESIVE ANCHORING SYSTEMS ARE PERMITTED TO BE USED FOR INSTALLATION OF REINFORCING STEEL INTO EXISTING CONCRETE ONLY WHERE SPECIFICALLY INDICATED IN THE CONTRACT DOCUMENTS OR WITH APPROVAL FROM THE STRUCTURAL ENGINEER. LOCATIONS WHERE REINFORCING STEEL WAS INCORRECTLY PLACED OR MISSED SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW.
- WHERE POST-INSTALLED MECHANICAL ANCHOR EMBEDMENT DEPTHS ARE SPECIFIED, THOSE DEPTHS ARE THE REQUIRED MINIMUM NOMINAL EMBEDMENT DEPTHS. WHERE MECHANICAL ANCHOR EMBEDMENT DEPTHS ARE NOT INDICATED, THE ANCHORS SHALL BE INSTALLED TO THE MAXIMUM EMBEDMENT DEPTH NOTED IN THE MANUFACTURER'S PRODUCT TECHNICAL GUIDE.
- ADHESIVE ANCHORS SHALL BE INSTALLED WITH A MINIMUM 6" EMBEDMENT DEPTH UON.

MATERIAL LEGEND

MATERIAL LEGEND:	
	CONCRETE
	CONCRETE - EXISTING
	EARTH
	GRAVEL OR GRANULAR FILL
	GROUT OR DRYPACK OR SAND
	CMU OR MASONRY
	METAL / COLD-FORM STUD
	WOOD / STUD
	PRECAST CONCRETE
	STEEL
	OTHER/SPECIALTY

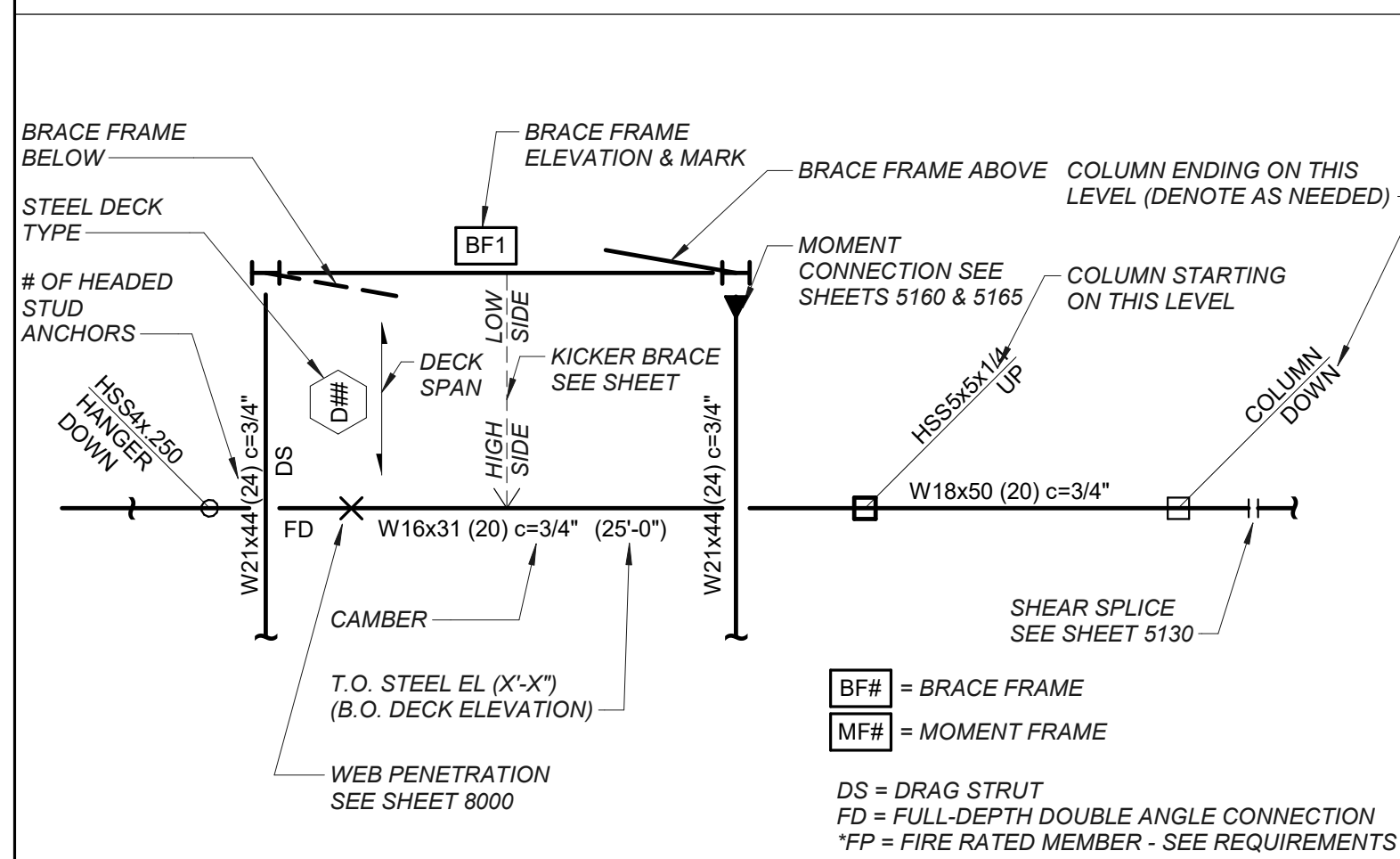
STRUCTURAL ABBREVIATION KEY

ABBR:	DESCRIPTION:	ABBR:	DESCRIPTION:
#	NUMBER OR POUNDS	KSF	KIPS PER SQUARE FOOT
@	AT	KSI	KIPS PER SQUARE INCH
Ø	DIAMETER	L	LENGTH
(A.B.	EXISTING	LBS	POUNDS
ARCH	ANCHOR BOLT	LL	LIVE LOAD
B.O.	ARCHITECT - URE, -URAL	LLH	LONG LEG HORIZONTAL
H	BOTTOM OF	LLV	LONG LEG VERTICAL
BF	BEAM FLANGE WIDTH	LONG	LONGITUDINAL
BM	BEAM	LSH	LONG SIDE HORIZONTAL
B.N.	BOUNDARY NAILING	LSV	LONG SIDE VERTICAL
BOTT	BOTTOM	LT	LIGHTWEIGHT
BTWN	BETWEEN	MAX	MAXIMUM
CFSP	COLD FORM STEEL FRAMING	MECH	MECHANICAL
CGS	CENTER OF GRAVITY OF THE TENDON	MIN	MINIMUM
CJP	COMPLETE JOINT PENETRATION WELD	NIC	NOT IN CONTRACT
CLR	CLEAR	NOT TO SCALE	NOT TO SCALE
CL	CENTERLINE	OH	OPPOSITE HAND
CMU	CONCRETE MASONRY UNIT	OPNG	OPENING
COL	COLUMN	ORIENTED STRAND BOARD	ORIENTED STRAND BOARD
CONC	CONCRETE	PCF	POUNDS PER CUBIC FOOT
CONN	CONNECTION	P.H.	PENTHOUSE
CONST	CONSTRUCTION	PJP	PARTIAL JOINT PENETRATION WELD
CONT	CONTINUOUS	PL	PLATE
COORD	COORDINATION	PLF	POUNDS PER LINEAR FOOT
DIA	DIAMETER	PSF	POUNDS PER SQUARE FOOT
DET	DETAIL	PSI	POUNDS PER SQUARE INCH
DWG	DRAWING	PT	POST-TENSION, -ED, -ING
DWL	DOWEL	R	RADIUS
EACH	EACH FACE	REINFORCING, -MENT, -ED	REINFORCING, -MENT, -ED
EA	EACH FACE	REQD	REQUIRED
EF	ELEVATION	RTU	ROOF TOP UNIT
EFF	EFFECTIVE	SC	SLIP CRITICAL
EL	ELECTRICAL	SCHED	SCHEDULE
ELEC	EMBEDMENT	SFRS	SEISMIC FORCE-RESISTING SYSTEM
EMBED	EDGE NAILING	SIM	SIMILAR
E.N.	EDGE OF DECK	S.M.S.	SHEET METAL SCREW
EOD	EDGE OF SLAB	SP	SPECIFICATION(S)
EOS	EQUAL	SPECS	SPECIFICATIONS
EQ	EQUIPMENT	SQ	SQUARE
EQUIP	ETCETERA	STIFF	STIFFENER
ETC	EACH WAY	STL	STEEL
EW	EXPANSION	SYM	SYMMETRICAL
EXP	EXTERIOR	T&B	TOP AND BOTTOM
EXT	CONCRETE COMPRESSIVE STRENGTH	TOP OF	TOP OF
FDN	FOUNDATION	T.O.	PRE-TENSIONED BOLT
F.N.	FIELD NAILING	TEMP	TEMPERATURE
FT	FOOT	TH	THICK
FTG	FOOTING	THK	THICK
FY	YIELD STRESS	TRANS	TRANSVERSE
GA	GAGE OR GAUGE	TYP	TYPICAL
GALV	GALVANIZED	UN	UNLESS OTHERWISE NOTED
GLB	GLULAM BEAM	VERT	VERTICAL
GT	GIRDER TRUSS	VIF	VERIFY IN FIELD
HORIZ	HORIZONTAL	W	WITH
HSA	HEADED STUD ANCHOR	WP	WORK POINT
HSB	HIGH STRENGTH BOLT	WT	WEIGHT
JOINT	JOINT	WWR	WELDED WIRE REINFORCING
K, KIP	KILOPOUND (1,000 POUNDS)		

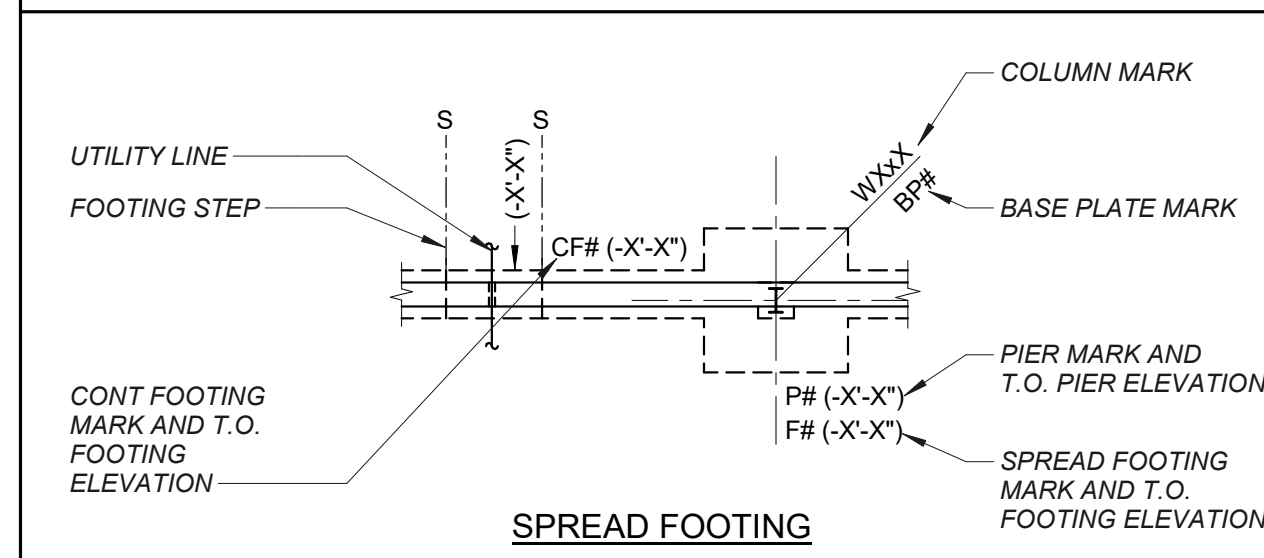
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3D VIEW (FOR REFERENCE ONLY)

STEEL PLAN SYMBOLS KEY



FOUNDATION PLAN SYMBOLS KEY



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DKA PROJECT NO: 24-027

KEY PLAN:

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SHEET TITLE:
**GENERAL NOTES,
SYMBOLS,
ABBREVIATIONS AND
3D VIEW**

SHEET NUMBER:

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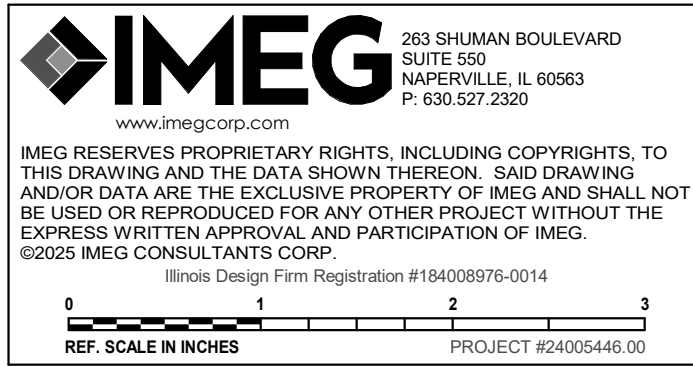
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DKA PROJECT NO: 24-027

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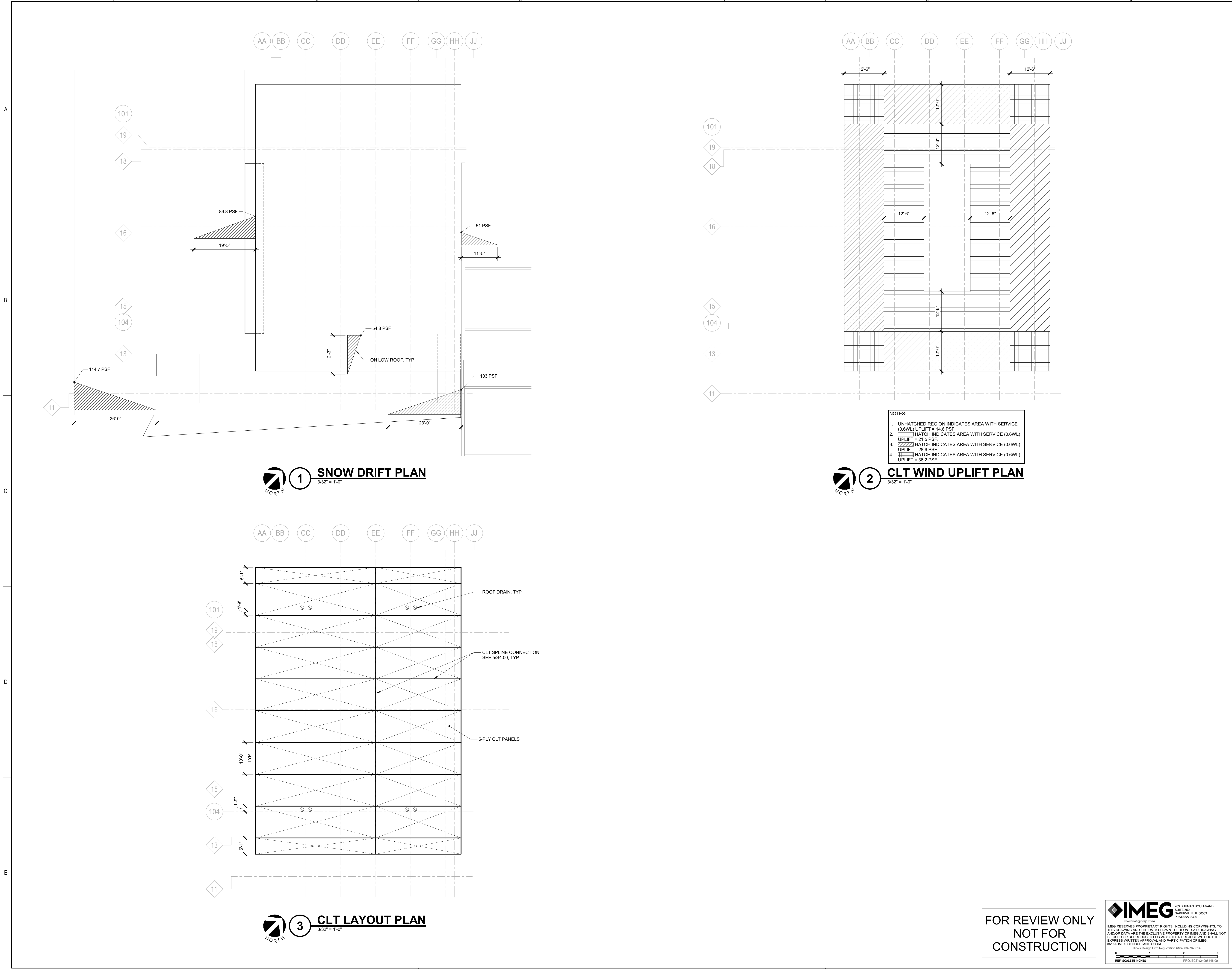
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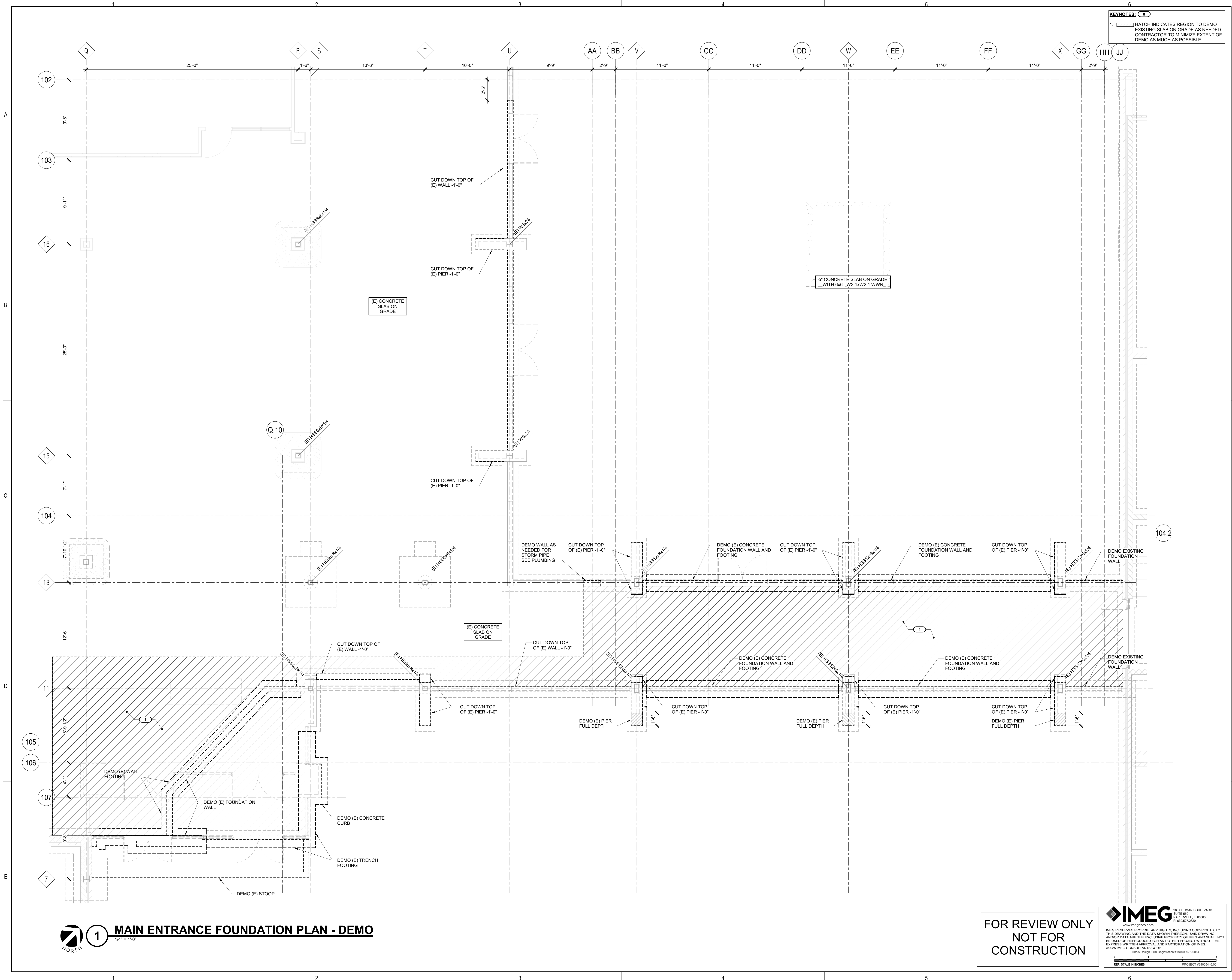
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MAIN ENTRANCE FOUNDATION PLAN - DEMO

SHEET NUMBER:

SD1.00

5/16/2025 6:49:22 AM





McHenry County College
ENGAGEMENT HALL

8900 NORTHWEST HWY #14
CRYSTAL LAKE, IL 60012
DKA PROJECT NO: 24-027

KEY PLAN:

SHEET STATUS: 05/16/2025
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[illegible]

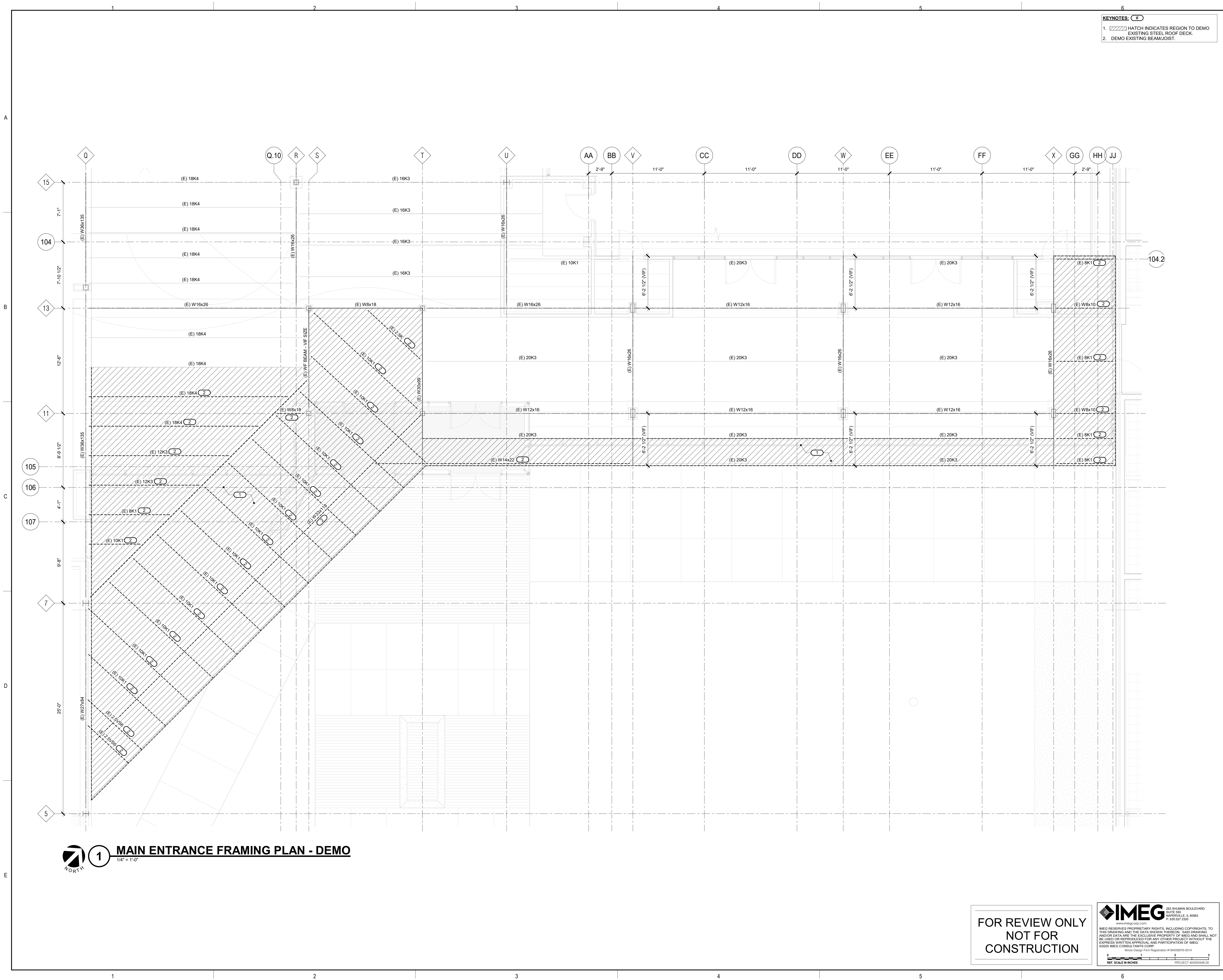
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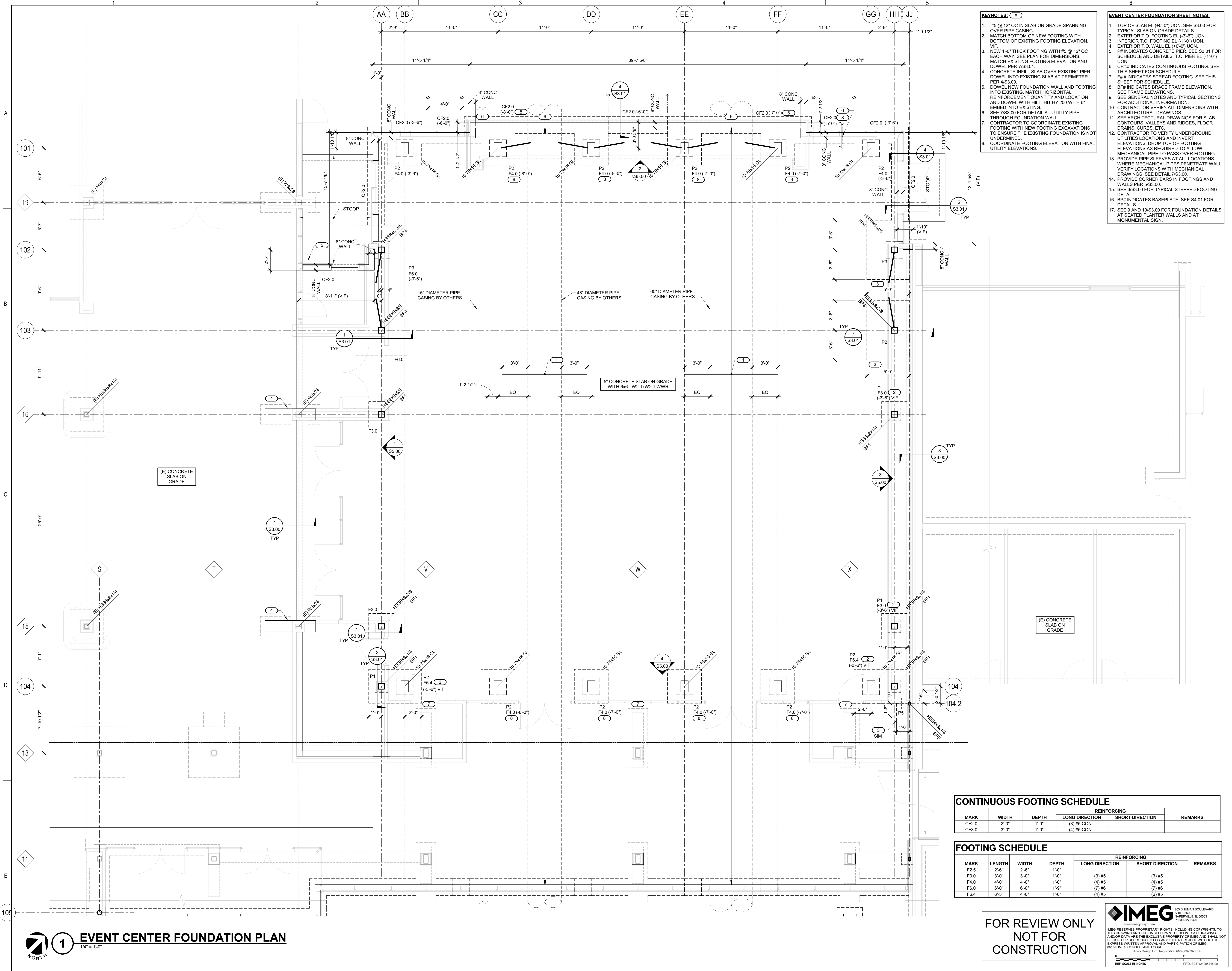
**MAIN ENTRANCE
FRAMING PLAN -
DEMO**

SHEET NUMBER:

SD1.01

5/16/2025 6:49:23 AM





dkA

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MEP-FP-T-ENGINEERS
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**McHenry County College
ENGAGEMENT HALL**

8900 NORTHWEST HWY #14
CRYSTAL LAKE, IL 60012
DKA PROJECT NO: 24-027

KEY PLAN:

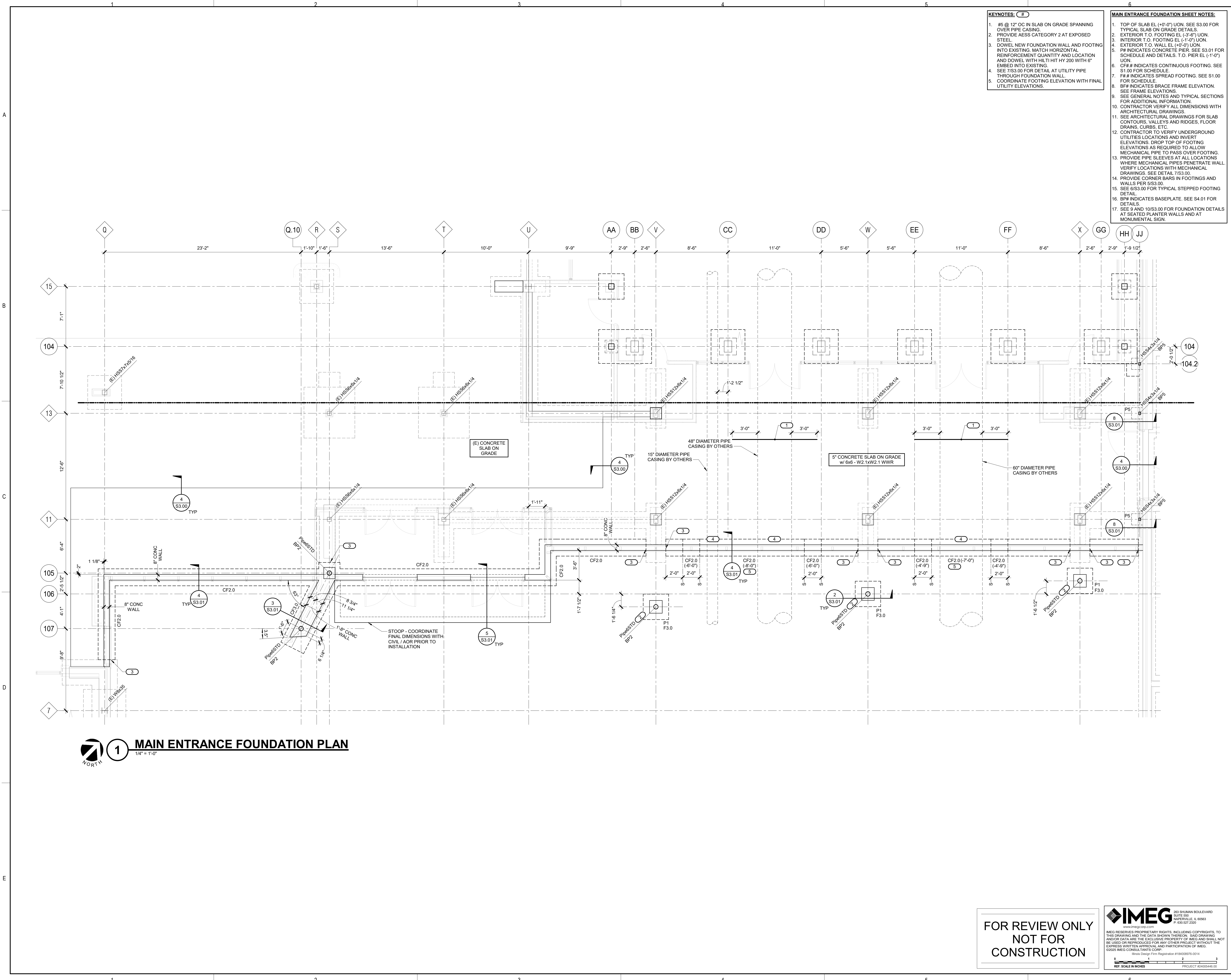
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**EVENT CENTER
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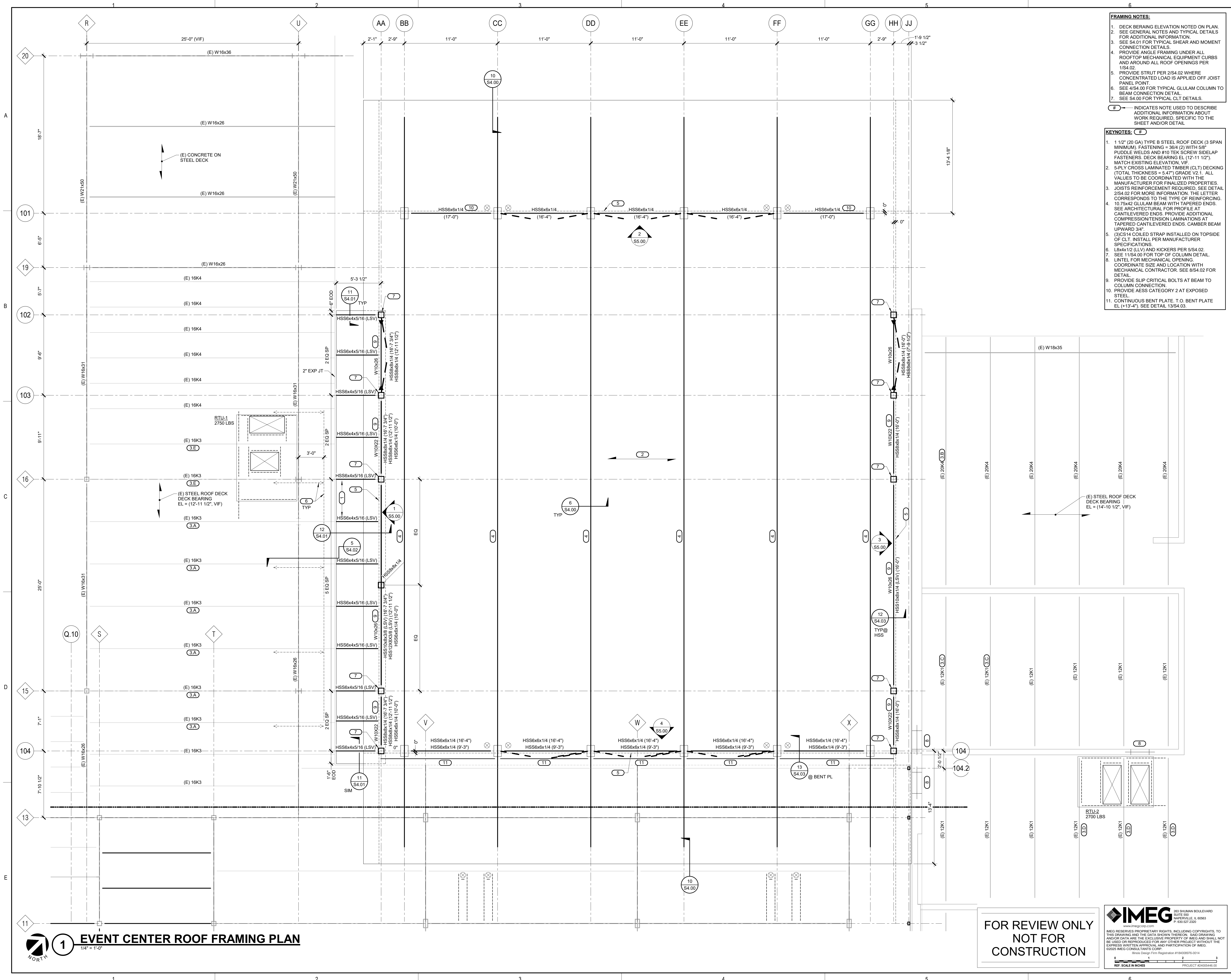
KEY PLAN:

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NO.	DESCRIPTION:	DATE:

SHEET TITLE:
**EVENT CENTER ROOF
FRAMING PLAN**

SHEET NUMBER:

S2.00

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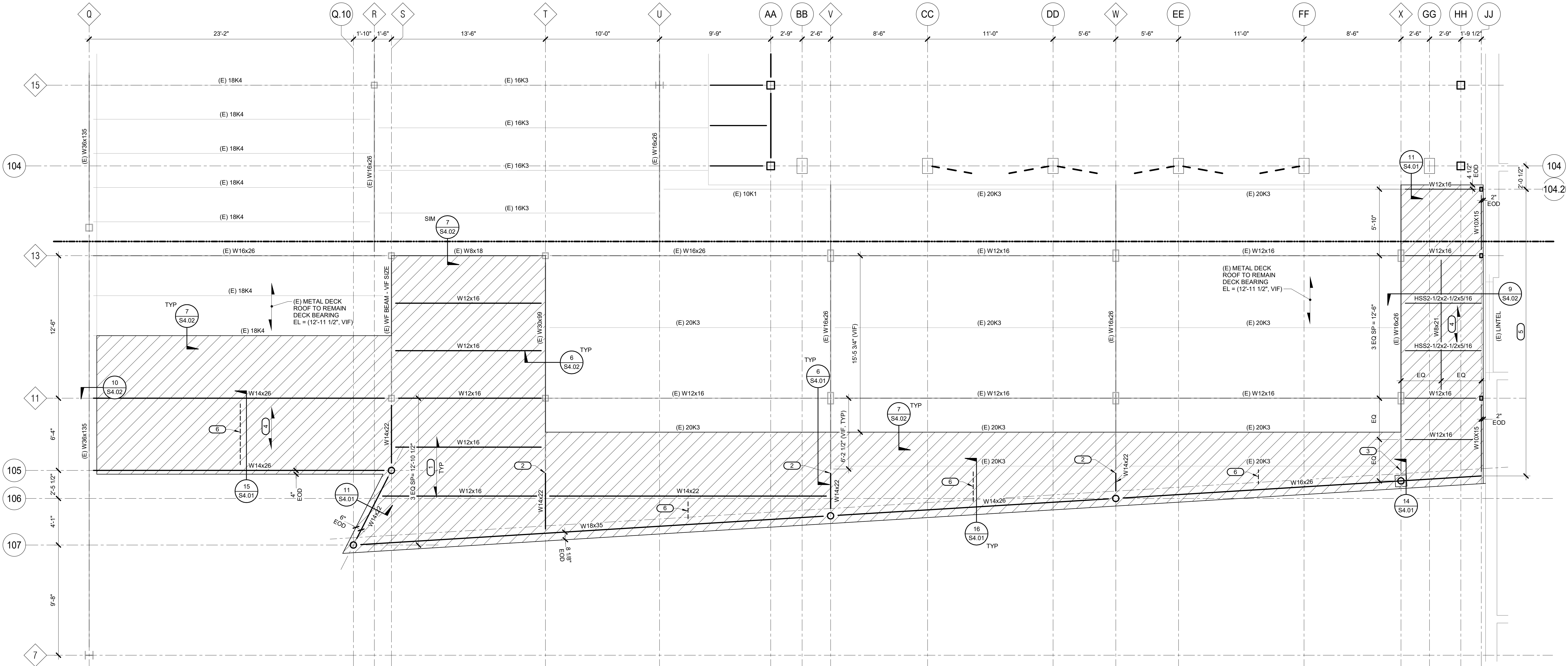
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MAIN ENTRANCE FRAMING PLAN

SHEET NUMBER:
S2.01

5/16/2025 6:49:29 AM

- FRAMING NOTES:**
1. DECK BEARING ELEVATION NOTED ON PLAN.
 2. SEE GENERAL NOTES AND TYPICAL DETAILS FOR ADDITIONAL INFORMATION.
 3. SEE S4.01 FOR TYPICAL SHEAR CONNECTION DETAILS.
 4. PROVIDE ANGLE FRAMING UNDER ALL ROOF TOP MECHANICAL EQUIPMENT CURBS AND AROUND ALL ROOF OPENINGS PER 1/54.02.
 5. PROVIDE STRUT PER 2/54.02 WHERE CONCENTRATED LOAD IS APPLIED OFF JOIST PANEL POINT.

- KEYNOTES: (#)**
1. 1 1/2" (20 GA) TYPE B STEEL ROOF DECK, FASTENING = 384 (2) WITH 5/8" PUDDLE WELDS AND #10 TEK SCREW SIDELAP FASTENERS. DECK BEARING EL (12'-11 1/2" VIF). HATCH INDICATES EXTENT OF NEW DECK.
 2. CONNECT BEAM TO EXISTING BEAM PER 6/54.01.
 3. CONNECT COLUMN TO EXISTING BEAM PER 14/54.01.
 4. 1 1/2" (18 GA) TYPE B STEEL ROOF DECK, STEEL IN FIREWALL TO BE INTUMESCENT PAINTED.
 6. L3x3x1/4 KICKER. SEE 15 AND 16/54.01.



1 MAIN ENTRANCE FRAMING PLAN
1/4" = 1'-0"

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REV. SCALE IN INCHES



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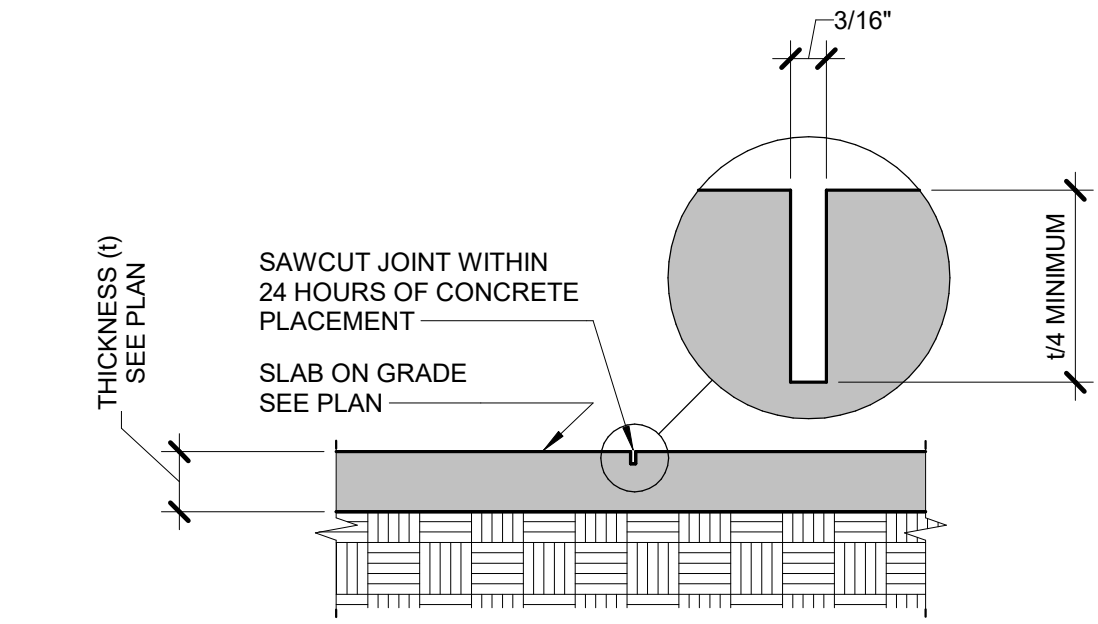
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SHEET TITLE:
CONCRETE DETAILS

SHEET NUMBER:

S3.00

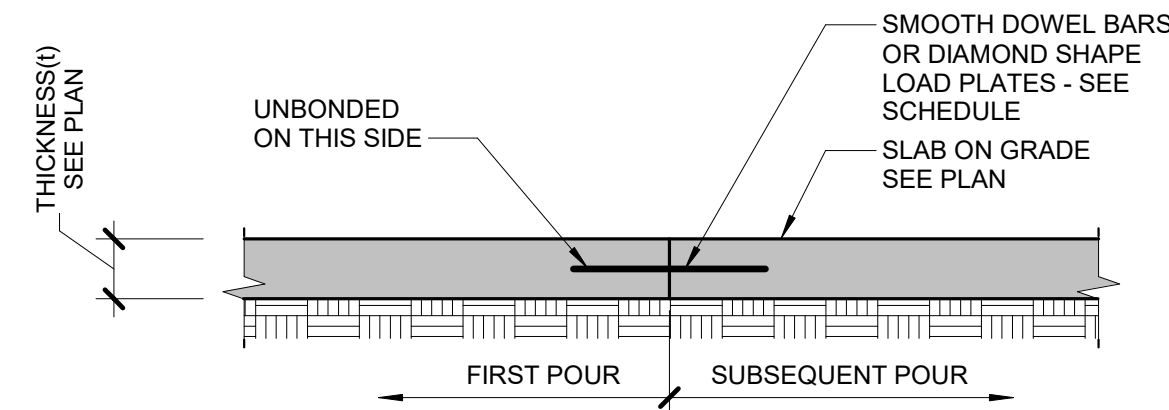
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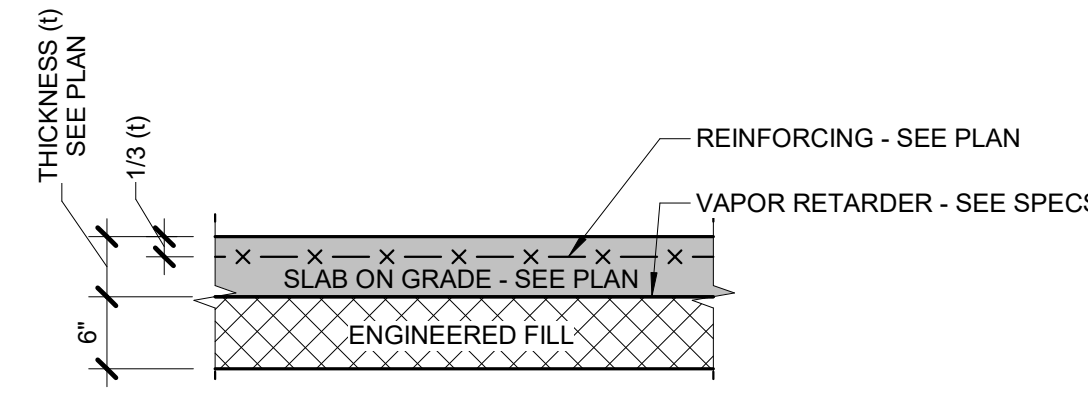
- SEE CAST-IN-PLACE CONCRETE GENERAL NOTES CONCERNING LOCATION OF JOINTS.

1 TYPICAL CONTROL JOINT
3/4" = 1'-0"



SLAB THICKNESS	SMOOTH DOWEL BAR	DIAMOND SHAPE LOAD PLATES
4"	1/2"Ø x 1'-4" @ 18" OC	1/4"x4 1/2" x 0'-4 1/2" @ 18" OC
5"	3/4"Ø x 1'-4" @ 12" OC	
6"		3/8"x4 1/2" x 0'-4 1/2" @ 18" OC
> 6"	1"Ø x 1'-4" @ 12" OC	

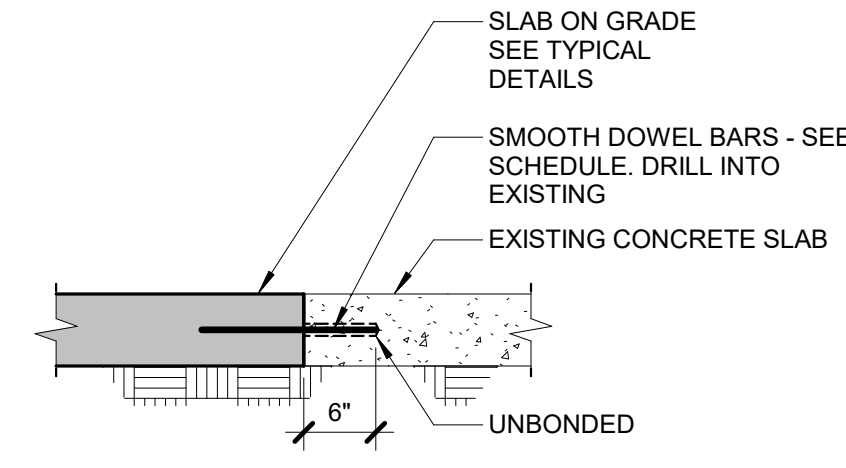
2 TYPICAL CONSTRUCTION JOINT
3/4" = 1'-0"



NOTES:

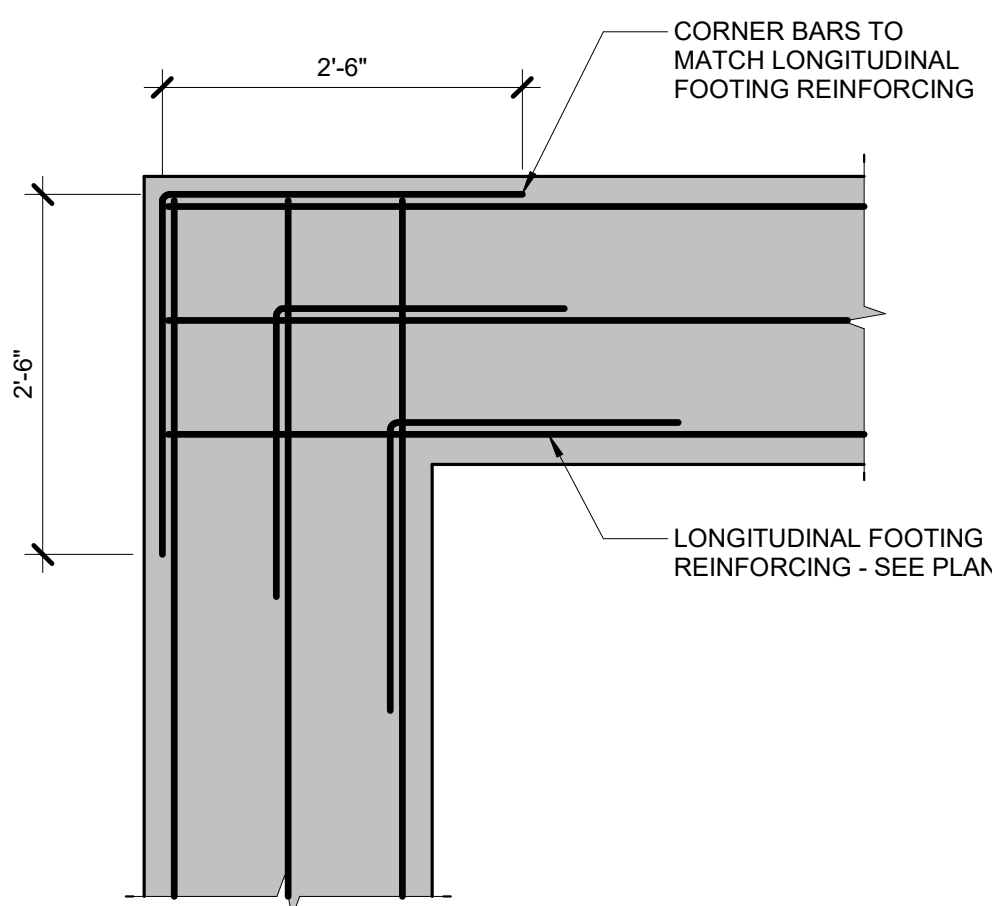
- COMPACT ALL FILL MATERIAL TO 95% OF THE MAXIMUM DRY DENSITY PER ASTM D1557.
- VAPOR RETARDER TO MEET ASTM E1745, CLASS A AND BE NOT LESS THAN 15 MILS THICK.

3 TYPICAL SLAB SECTION
3/4" = 1'-0"

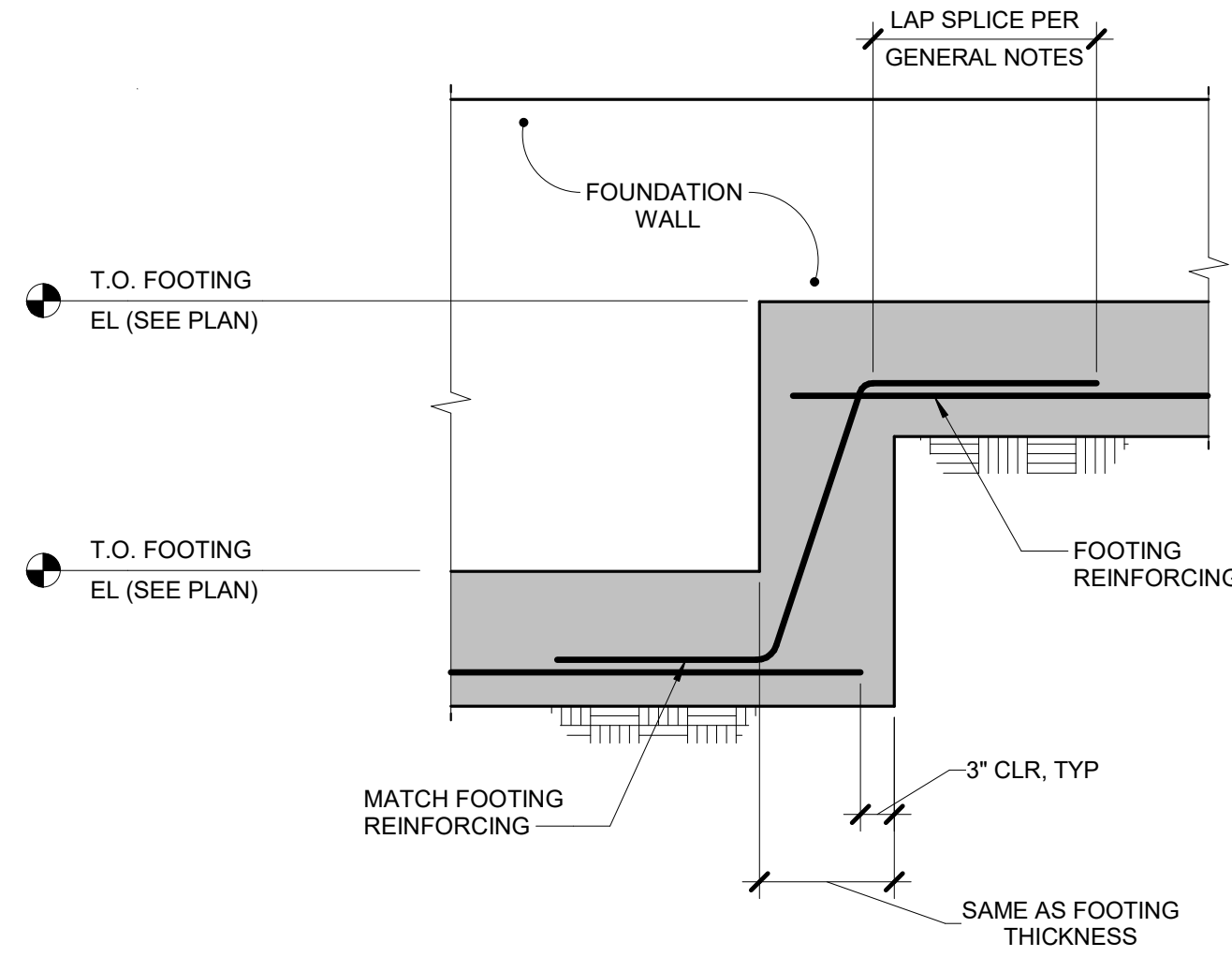


SLAB THICKNESS	SMOOTH DOWEL BAR
4"	1/2"Ø x 1'-4" @ 18" OC
5"	3/4"Ø x 1'-4" @ 12" OC
6"	
> 6"	1"Ø x 1'-4" @ 12" OC

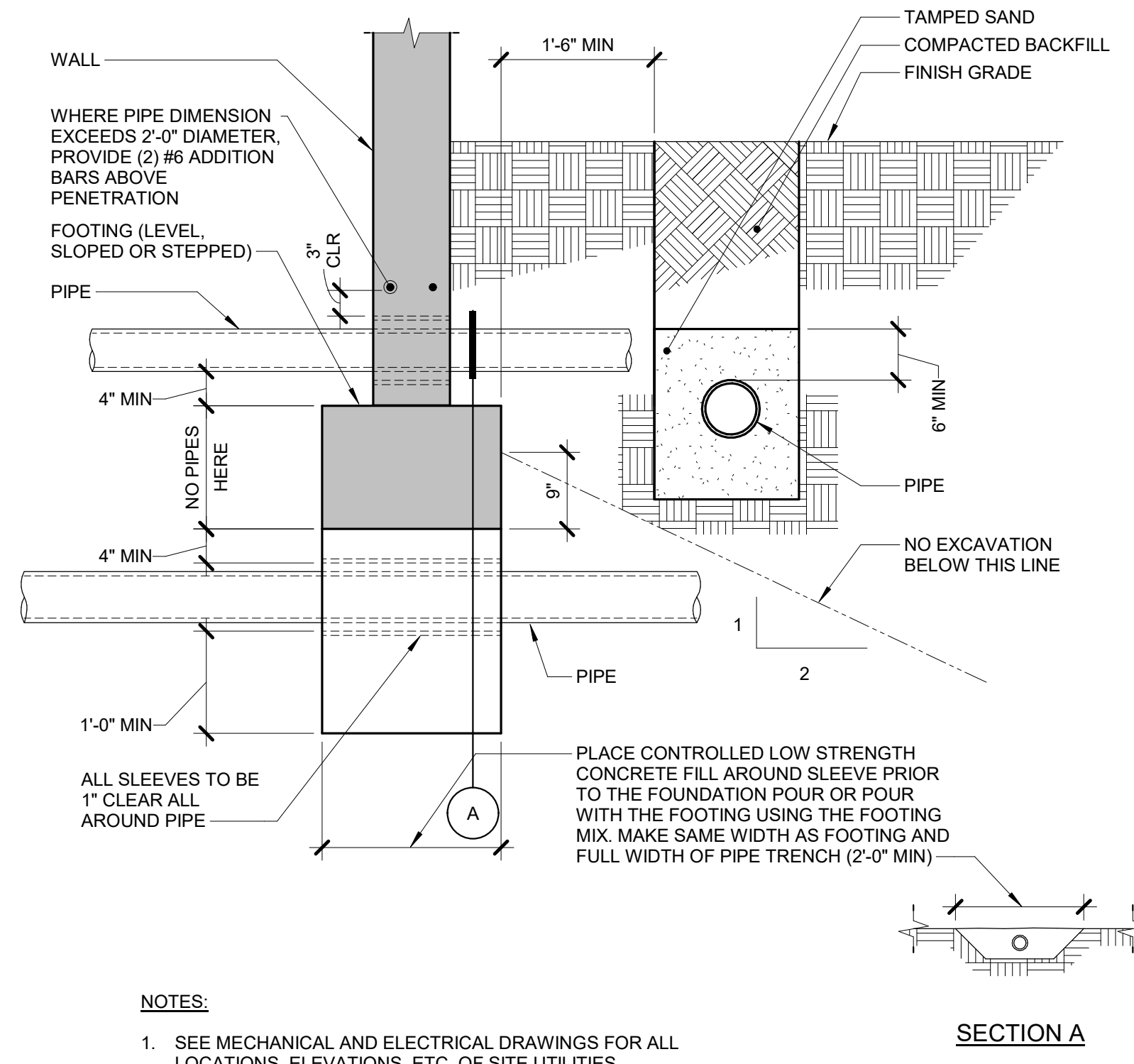
4 NEW TO EXISTING SLAB DETAIL
3/4" = 1'-0"



5 FOOTING CORNER BARS
3/4" = 1'-0"



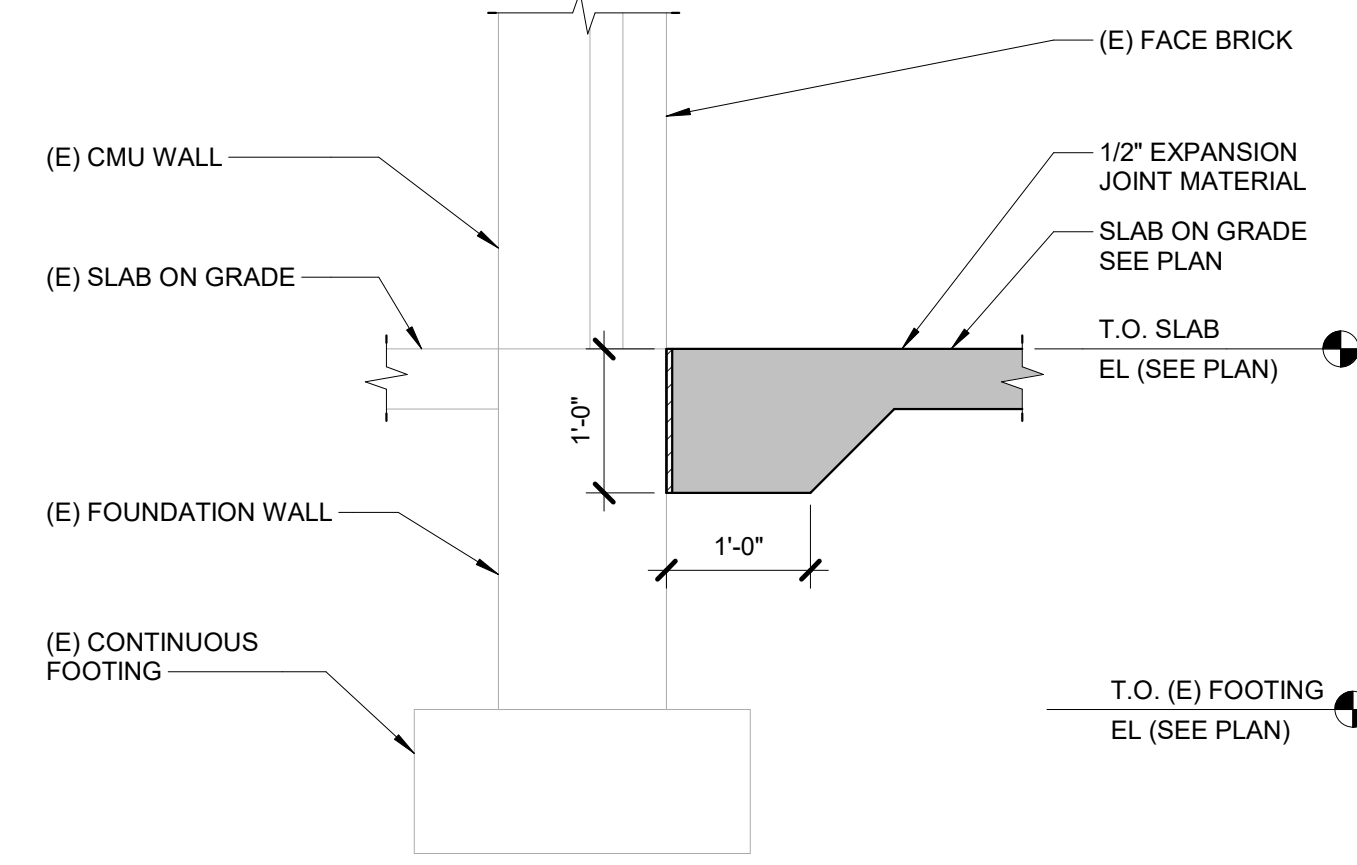
6 TYPICAL STEPPED FOOTING
DETAIL
3/4" = 1'-0"



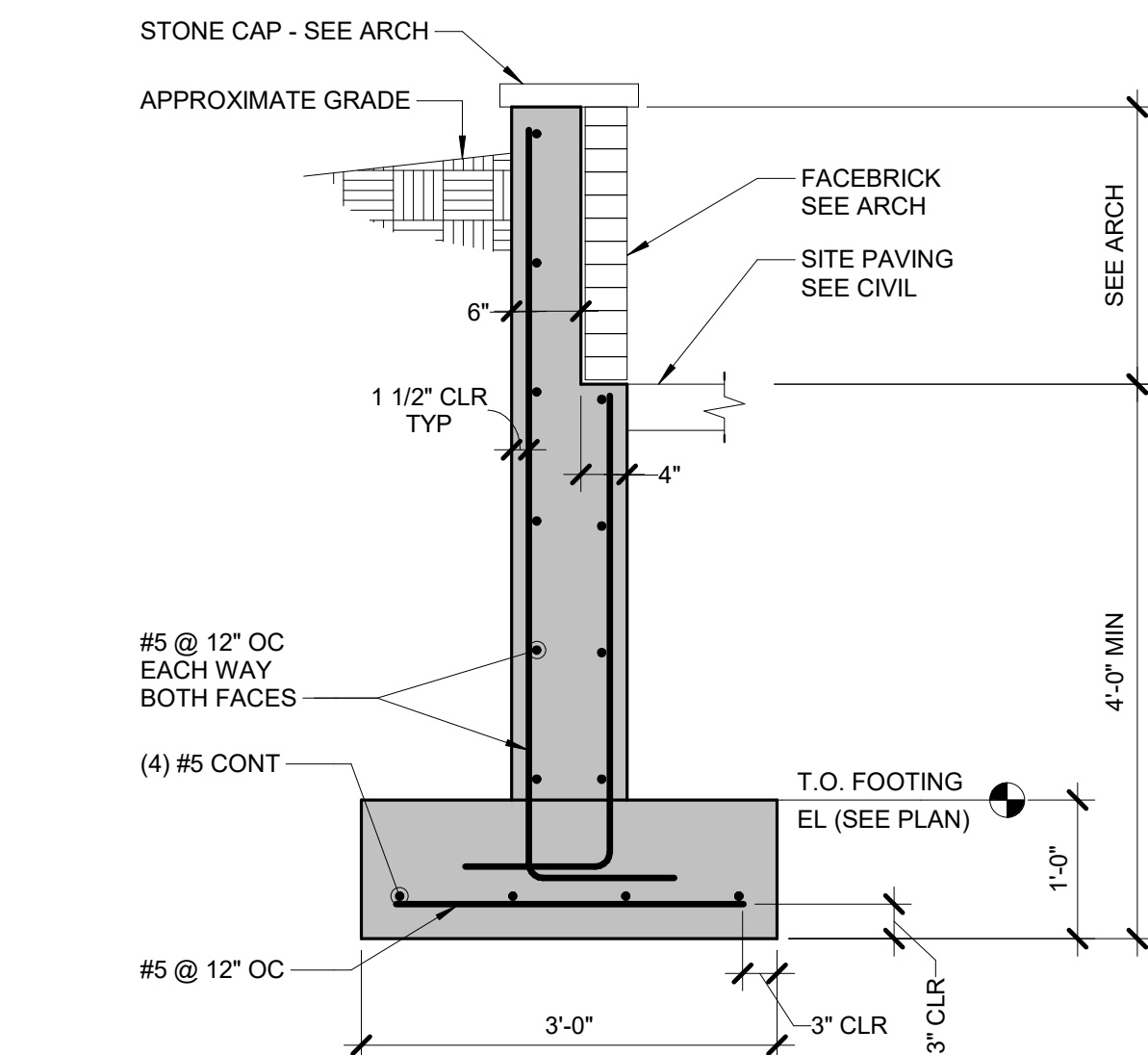
NOTES:

- SEE MECHANICAL AND ELECTRICAL DRAWINGS FOR ALL LOCATIONS, ELEVATIONS, ETC. OF SITE UTILITIES.
- PIPE IS NOT ALLOWED UNDER SPREAD FOOTINGS.

7 TYPICAL PIPE TRENCH DETAIL
3/4" = 1'-0"

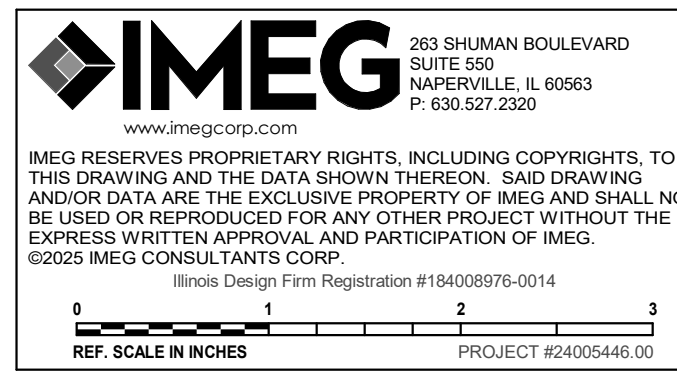


8 SLAB DETAIL
3/4" = 1'-0"



9 SEATED PLANTER WALL DETAIL
3/4" = 1'-0"

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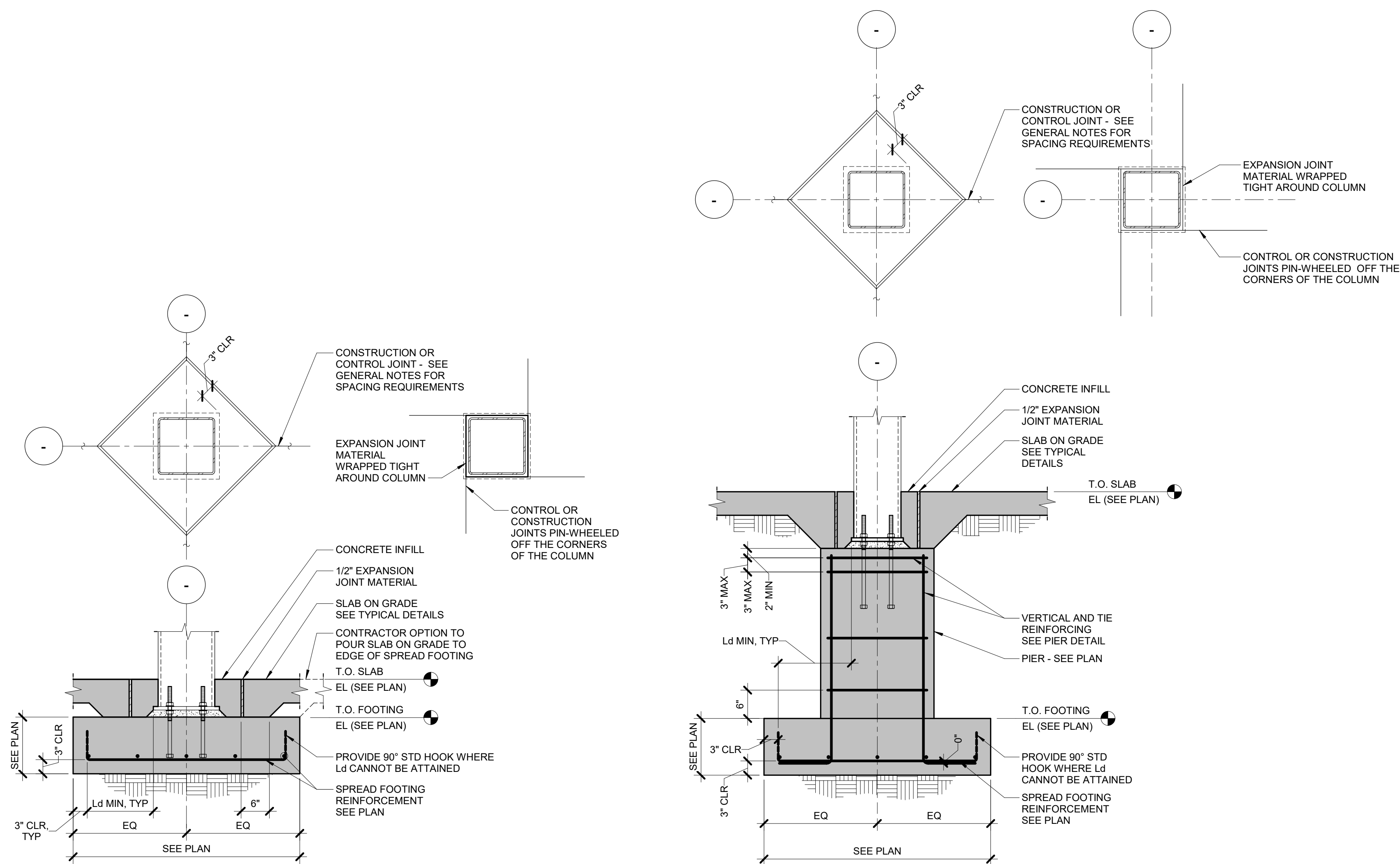
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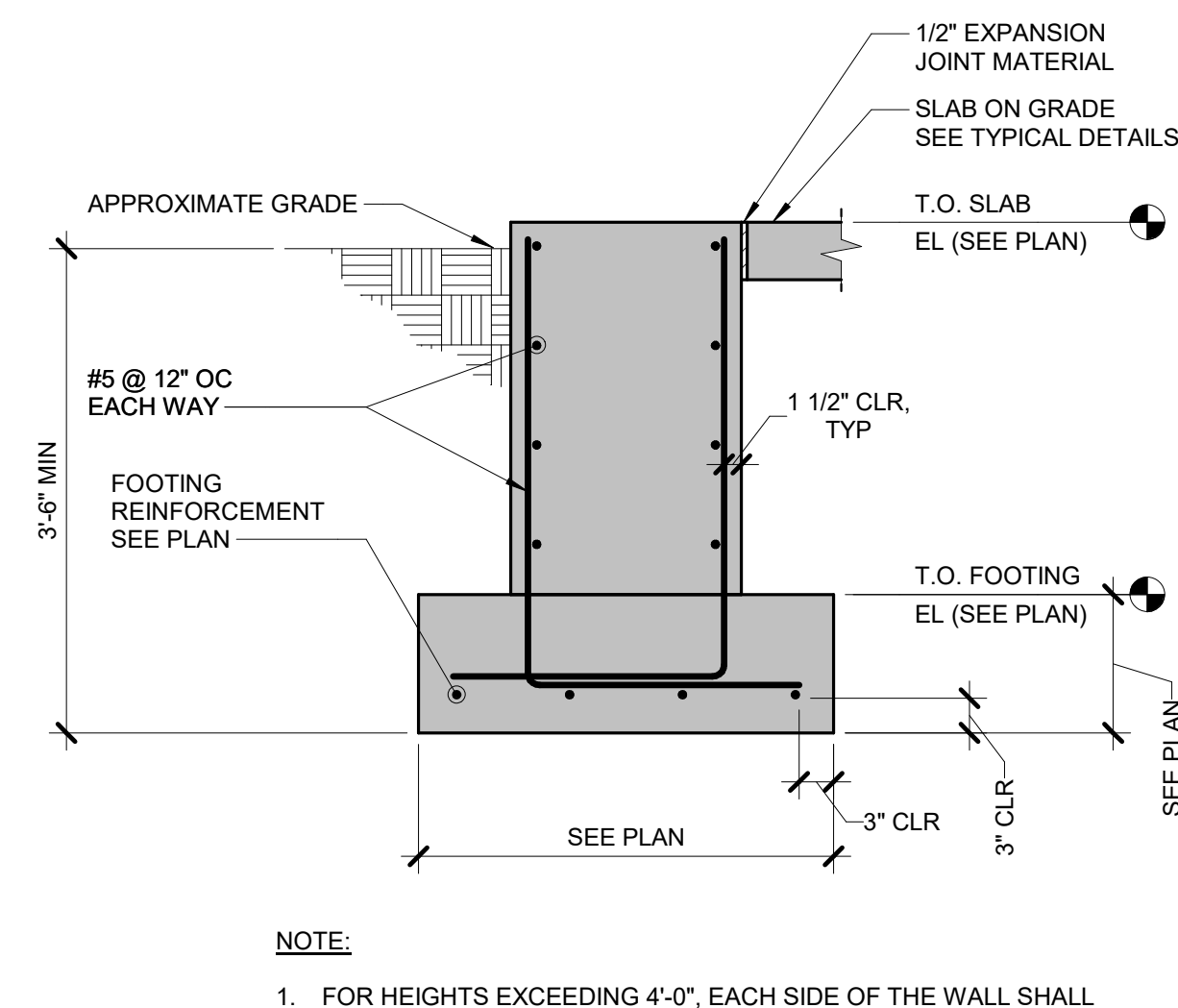
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S3.01

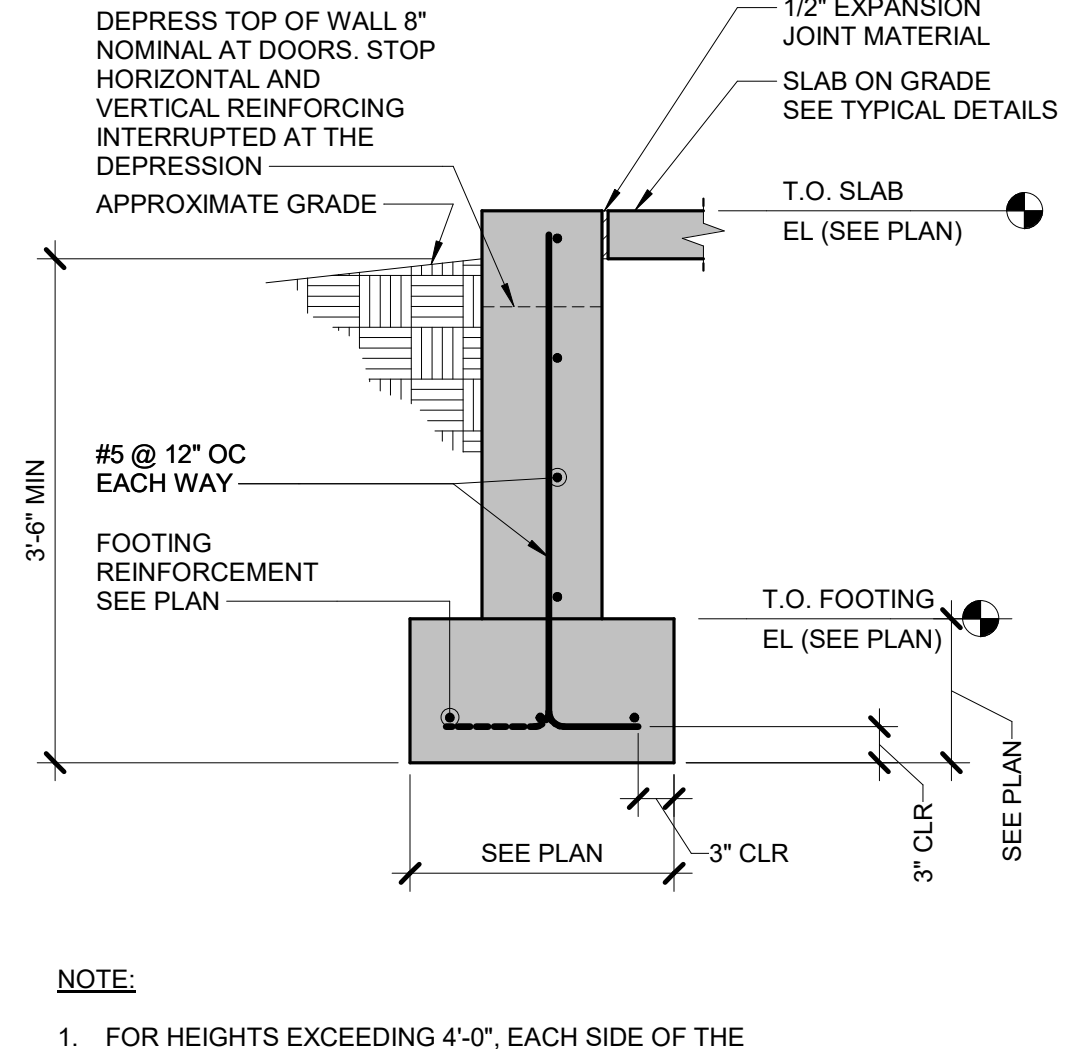
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2 COLUMN ON PIER/FOOTING 3/4\"/>

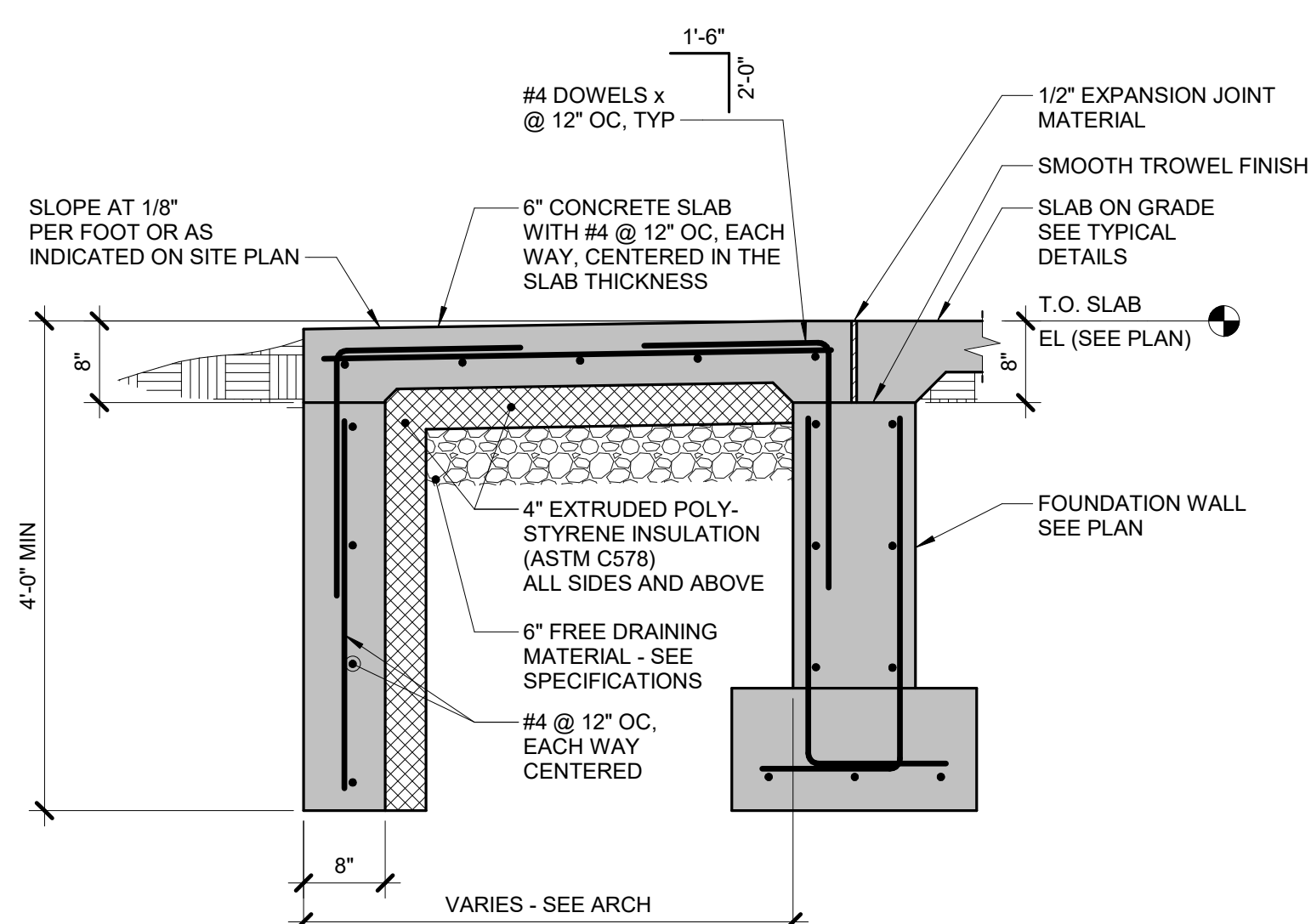


3 TYPICAL PERIMETER FROST WALL 3/4\"/>



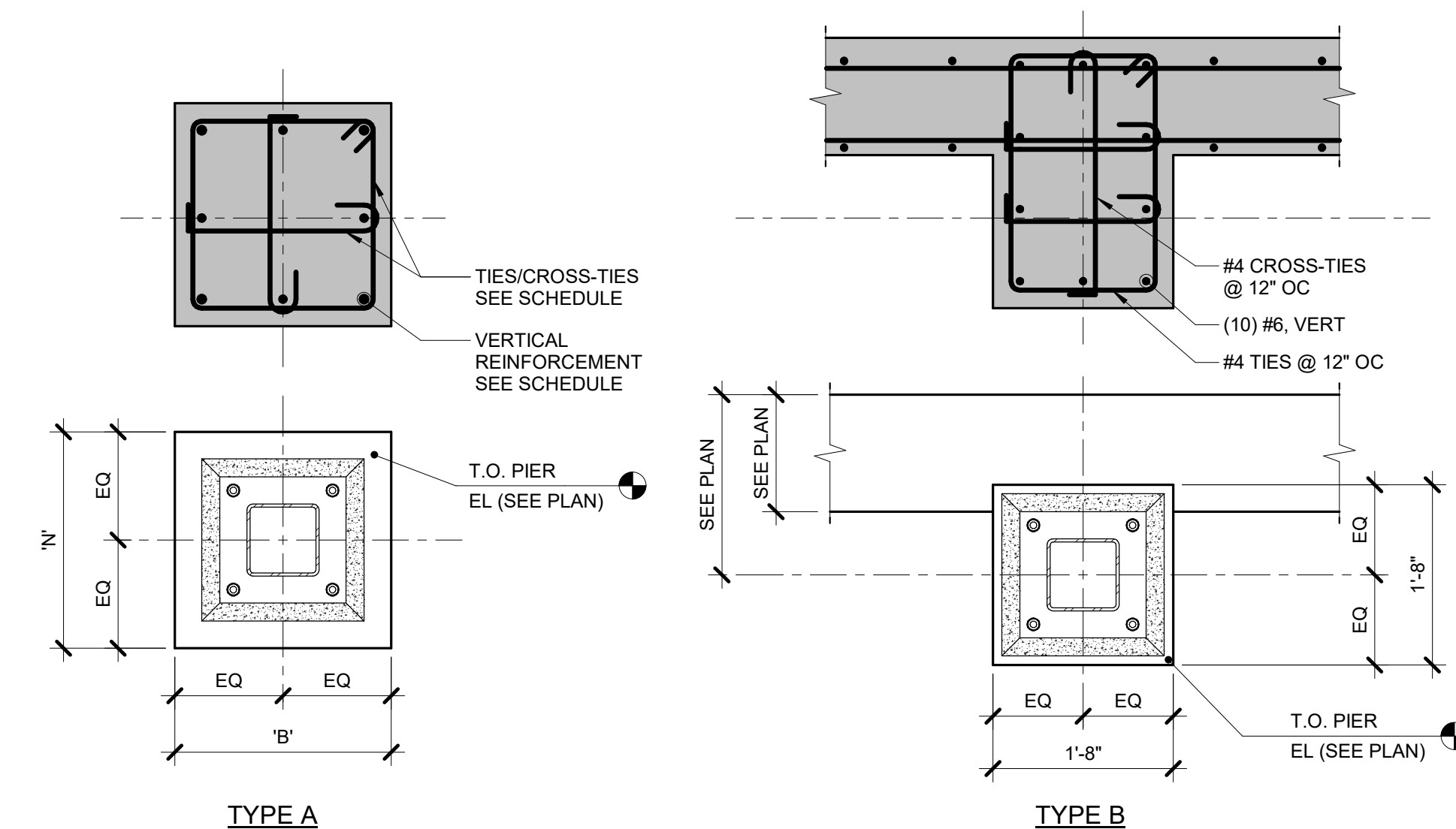
4 TYPICAL PERIMETER FROST WALL 3/4\"/>

1 COLUMN FOOTING DETAIL 3/4\"/>



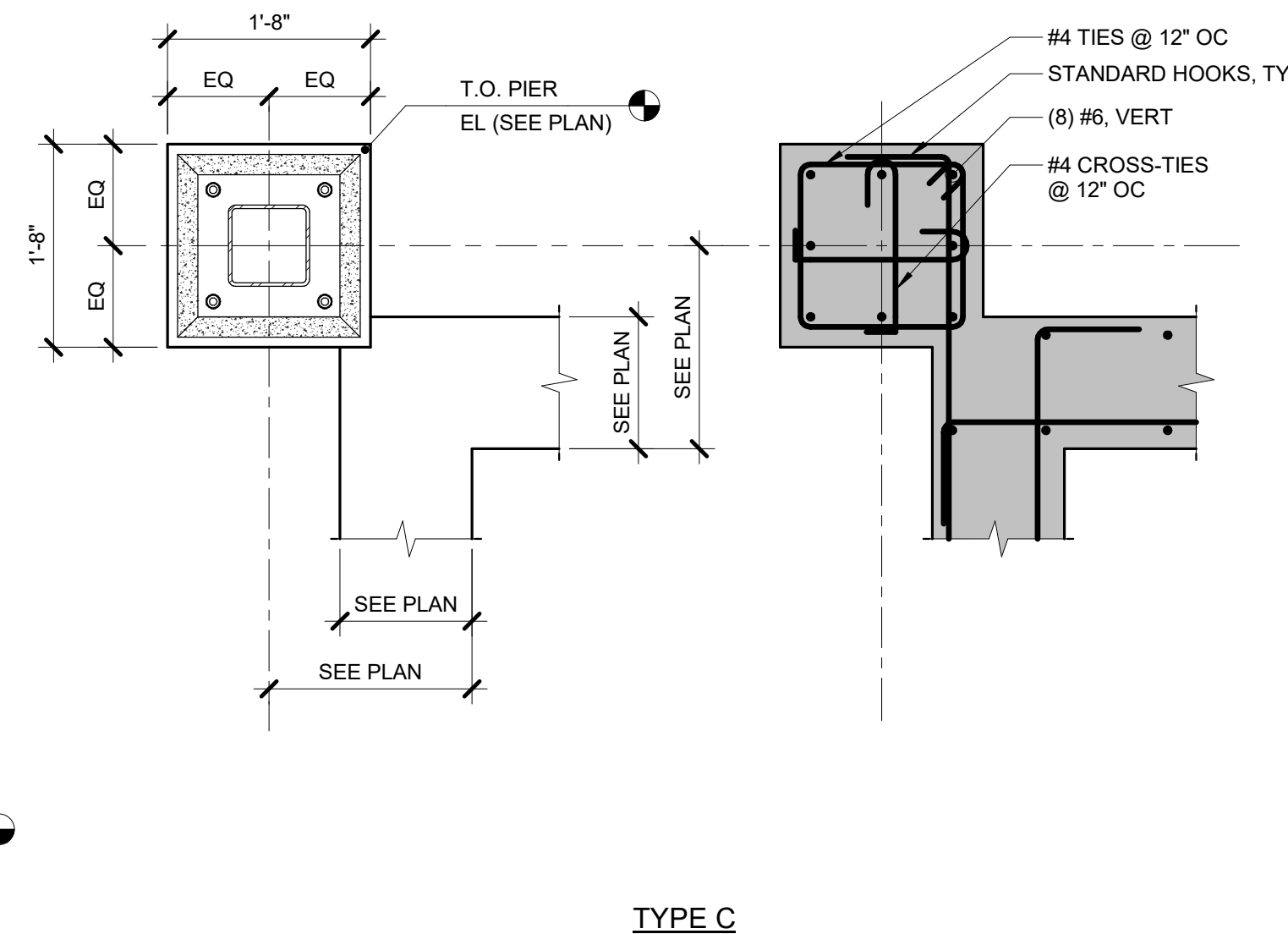
NOTE:
1. SEE ARCHITECTURAL DRAWINGS FOR EXACT STOOP
LAYOUT AND LOCATIONS.

5 TYPICAL STOOP DETAIL 3/4\"/>

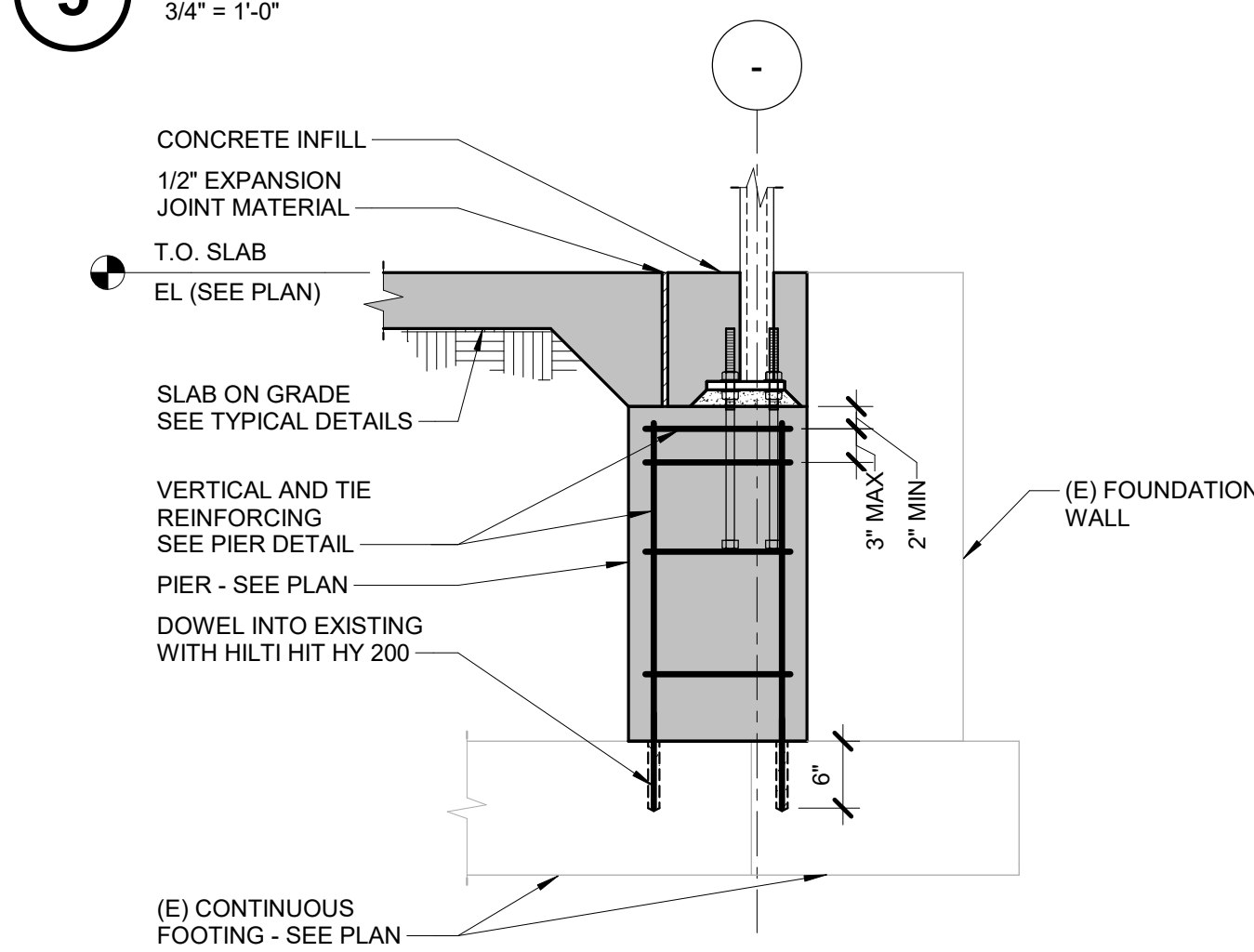
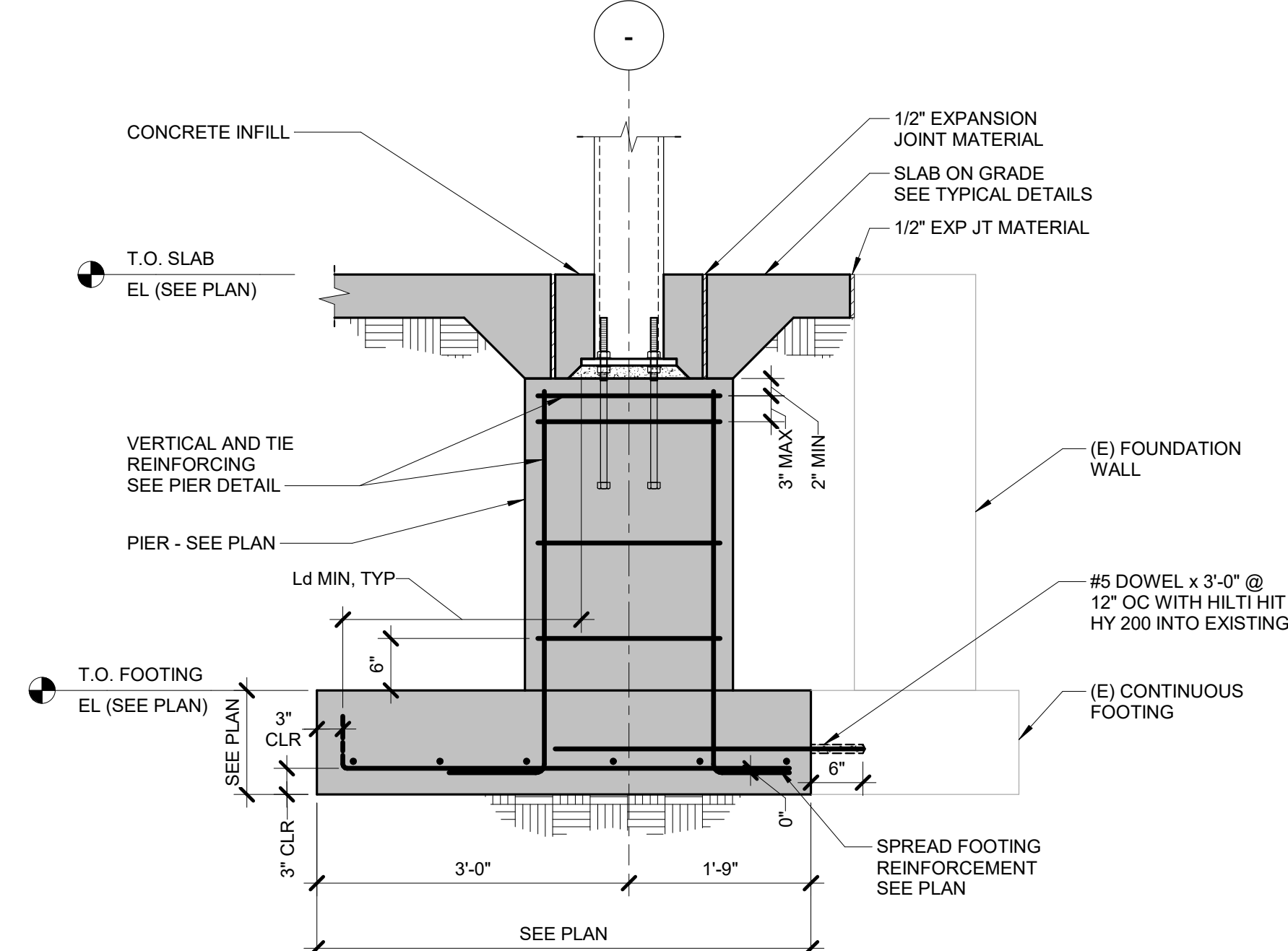


PIER SCHEDULE					
MARK	'B'	'N'	VERTICAL BARS	TIES/CROSS-TIES	DETAIL TYPE
P1	18"	18"	(4) #6	#4 @ 12" OC	A
P2	24"	24"	(8) #6	#4 @ 12" OC	A
P3	24"	24"	(8) #6	#4 @ 12" OC	C
P4	18"	18"	(4) #6	#4 @ 12" OC	B
P5	10"	16"	(4) #6	#4 @ 12" OC	A, SIM

6 PIER DETAIL 3/4\"/>

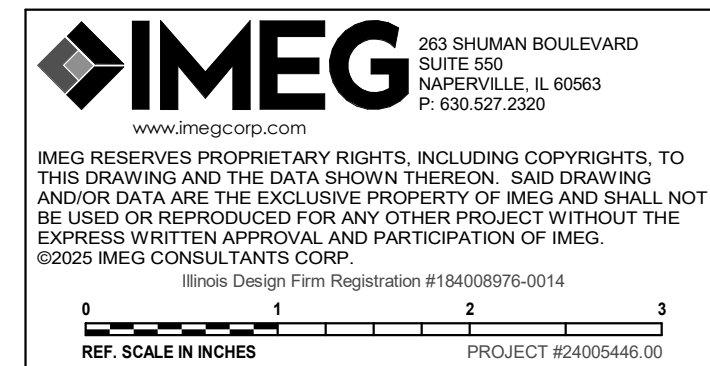


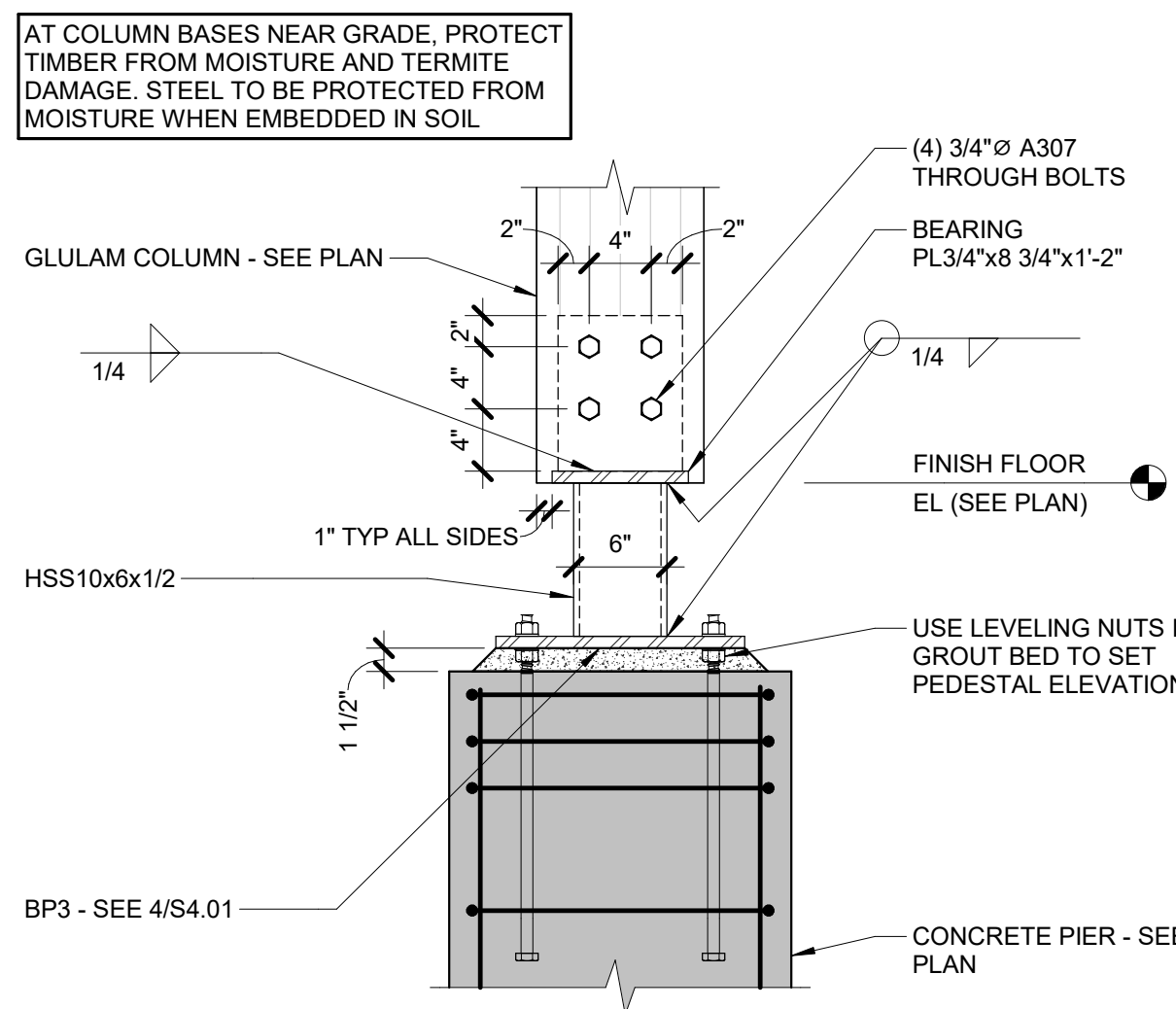
7 COLUMN ON PIER/FOOTING 3/4\"/>



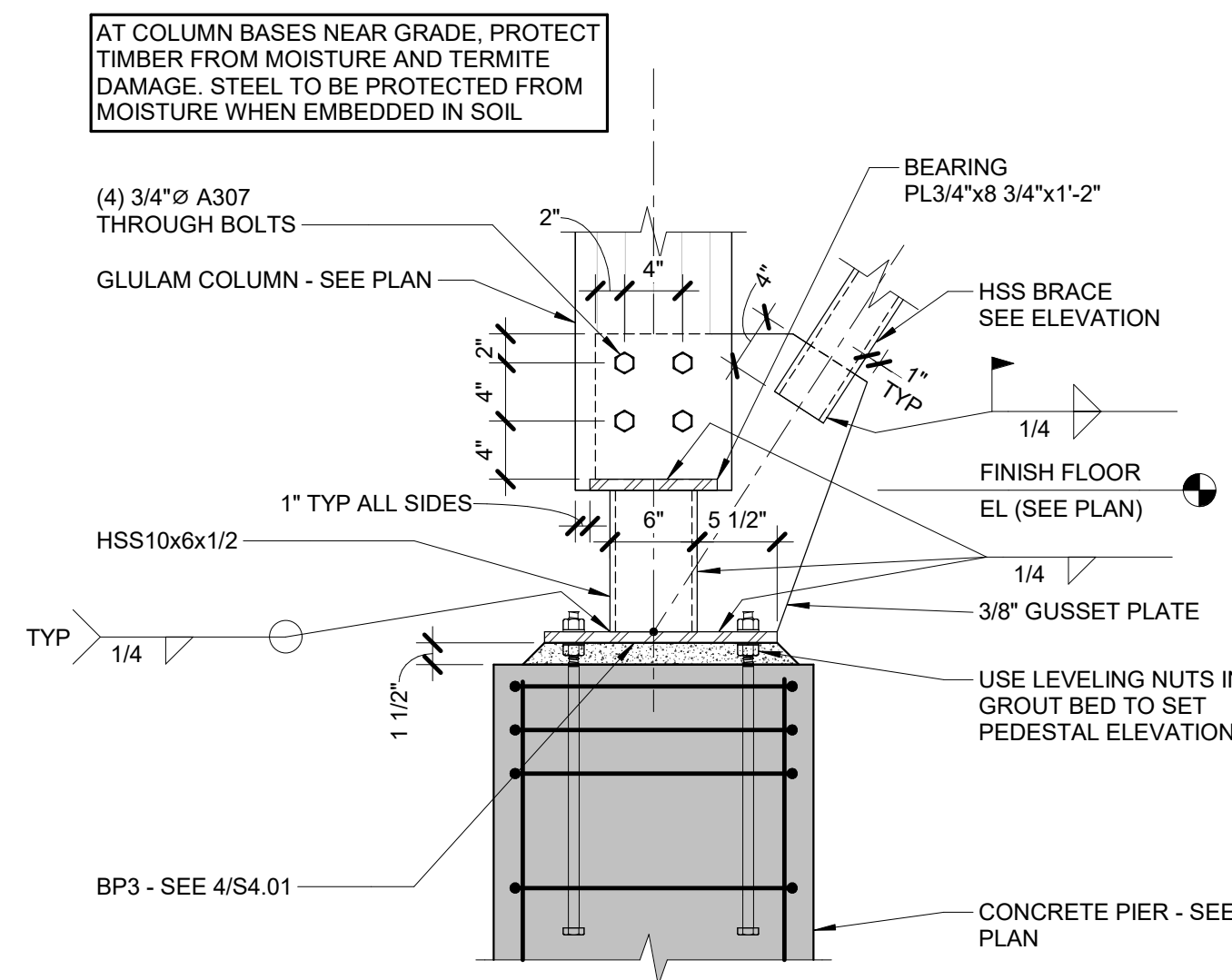
8 COLUMN ON PIER/FOOTING
DETAIL 3/4\"/>

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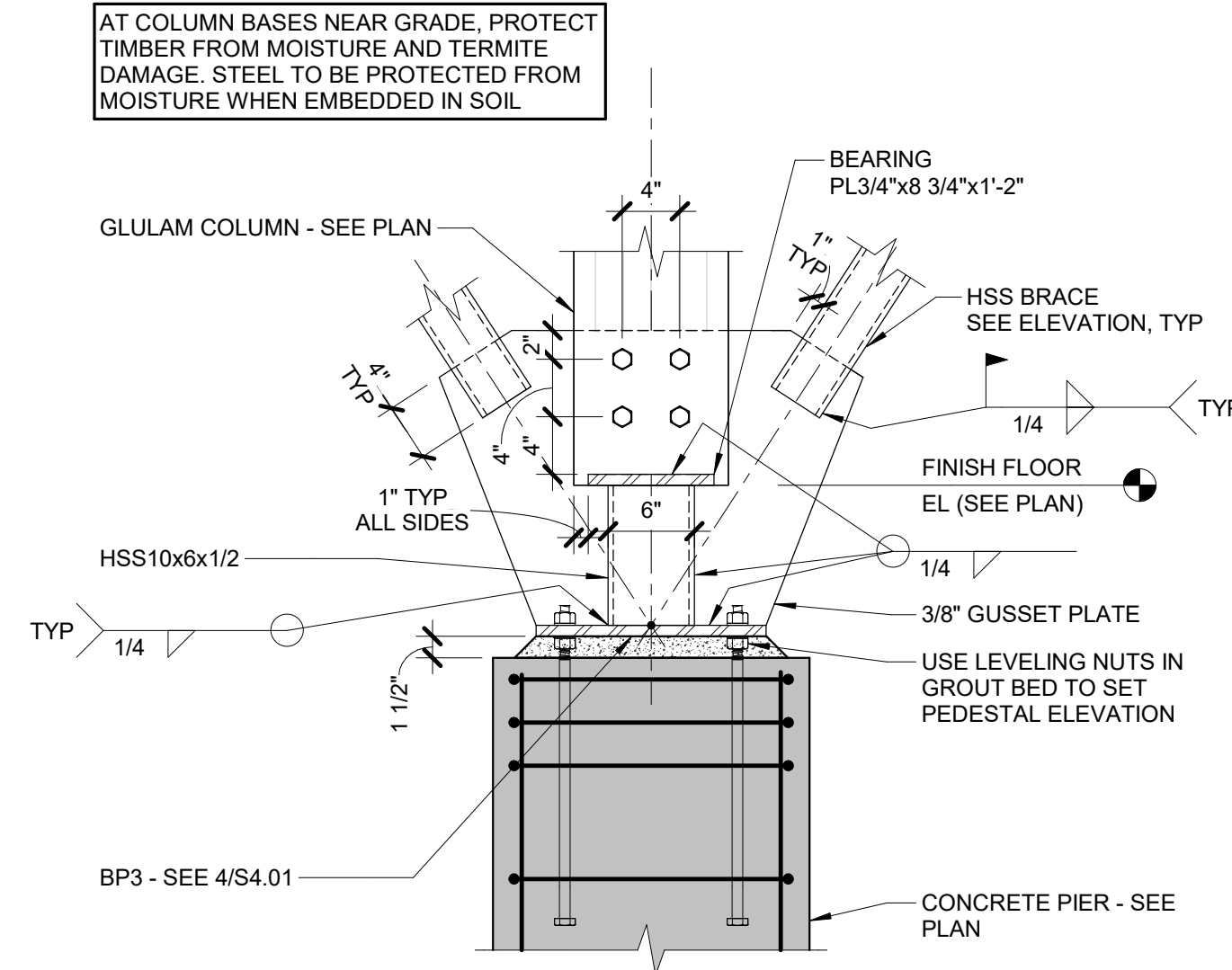




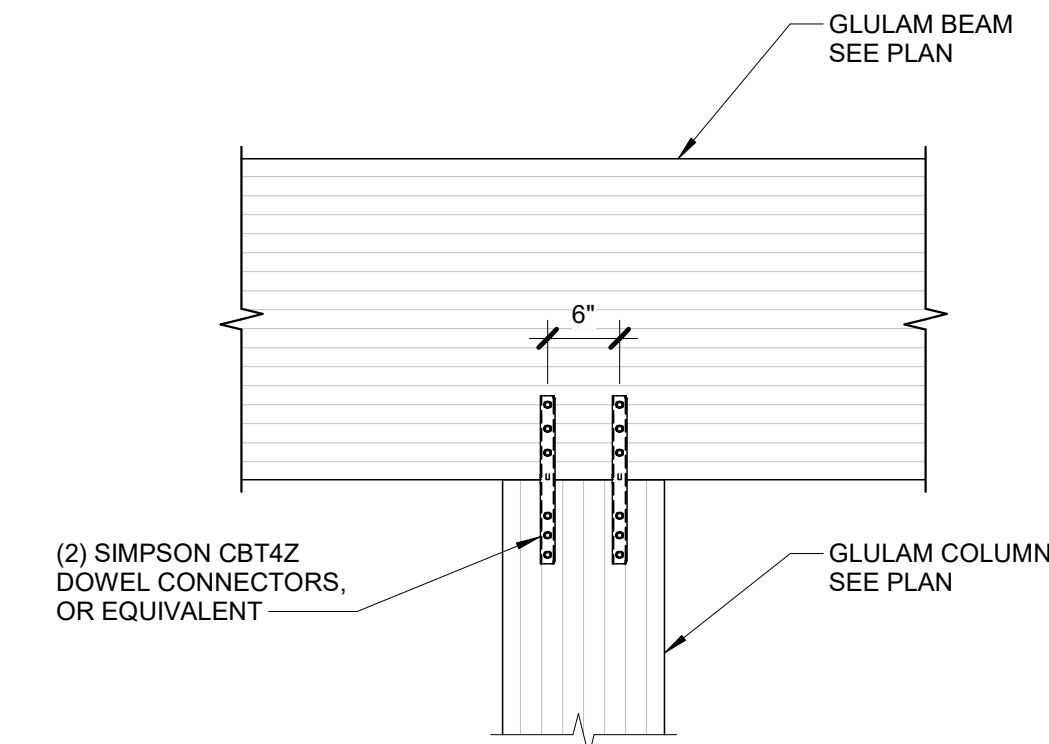
1 TYPICAL GLULAM COLUMN BEARING ON CONCRETE
1" = 1'-0"



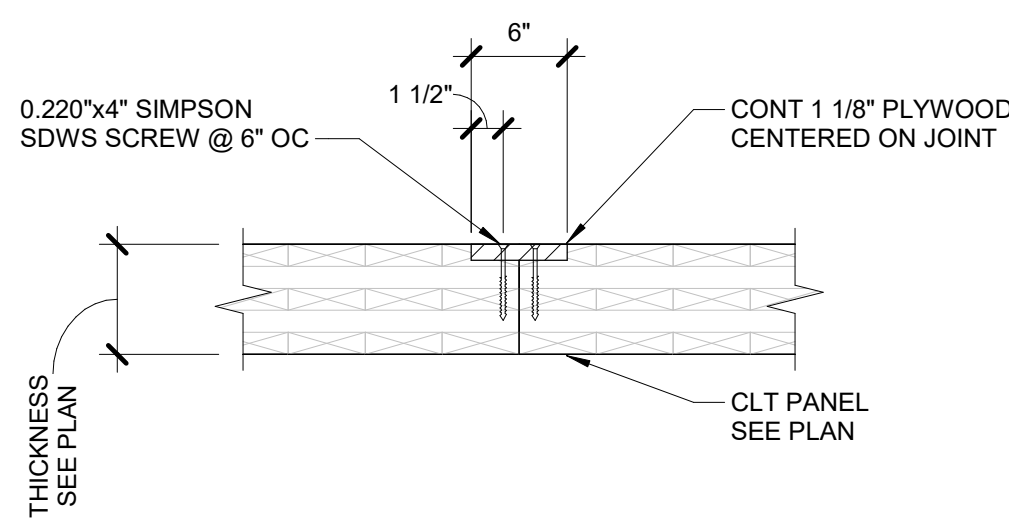
2 GLULAM COLUMN BEARING ON CONCRETE AT BRACED FRAME
1" = 1'-0"



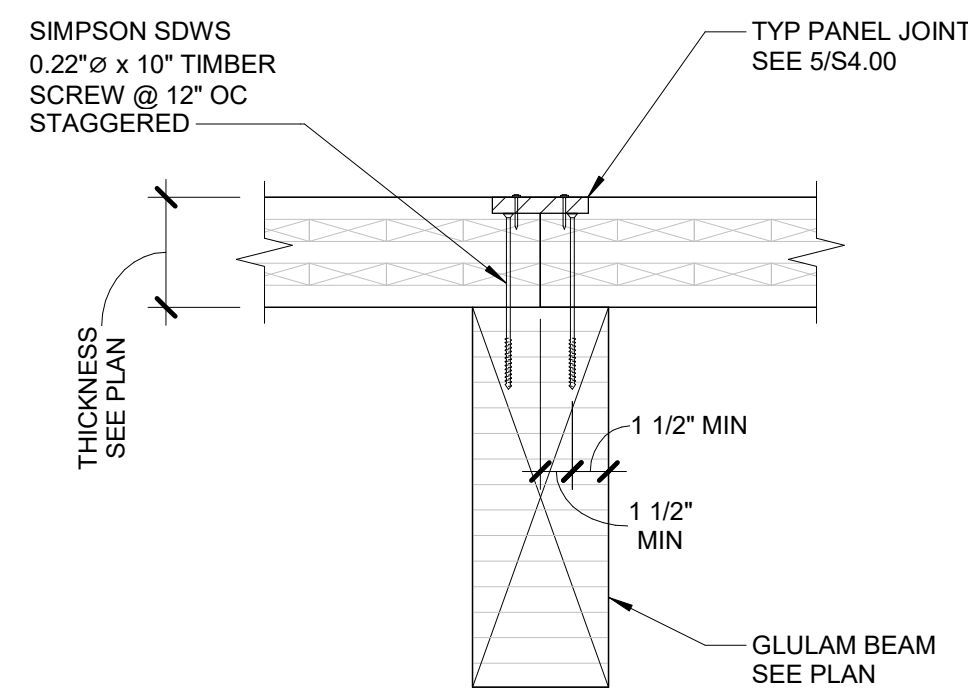
3 GLULAM COLUMN BEARING ON CONCRETE AT BRACED FRAME
1" = 1'-0"



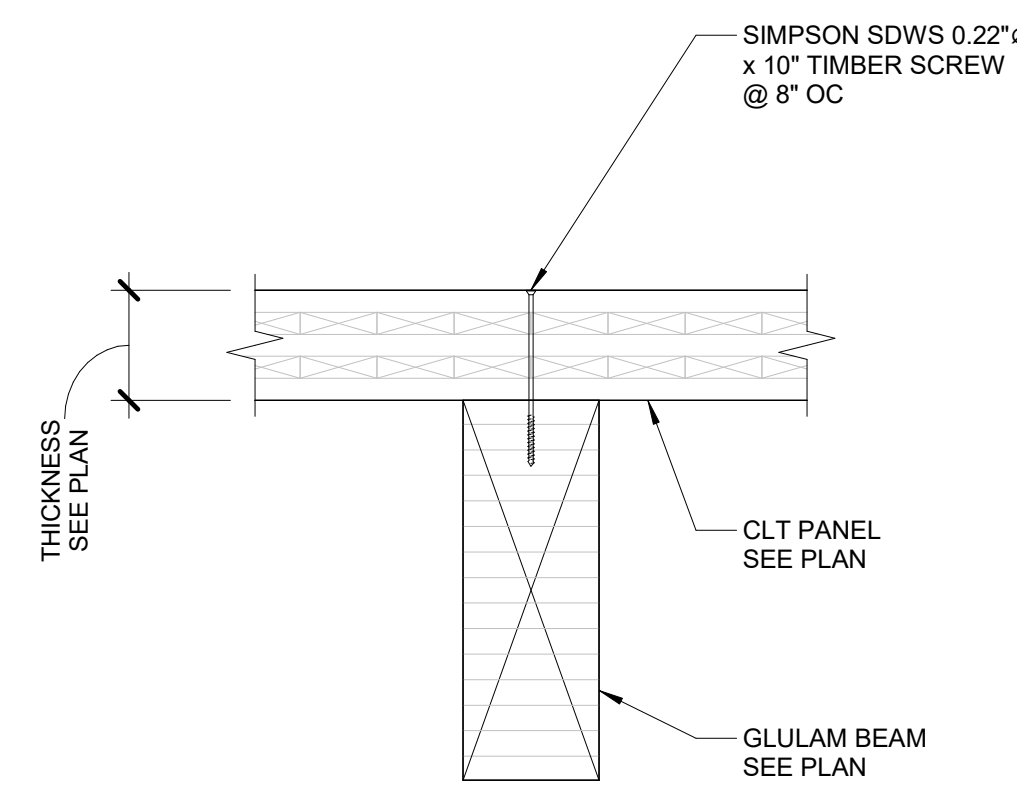
4 GLULAM CONNECTION TO COLUMN
3/4" = 1'-0"



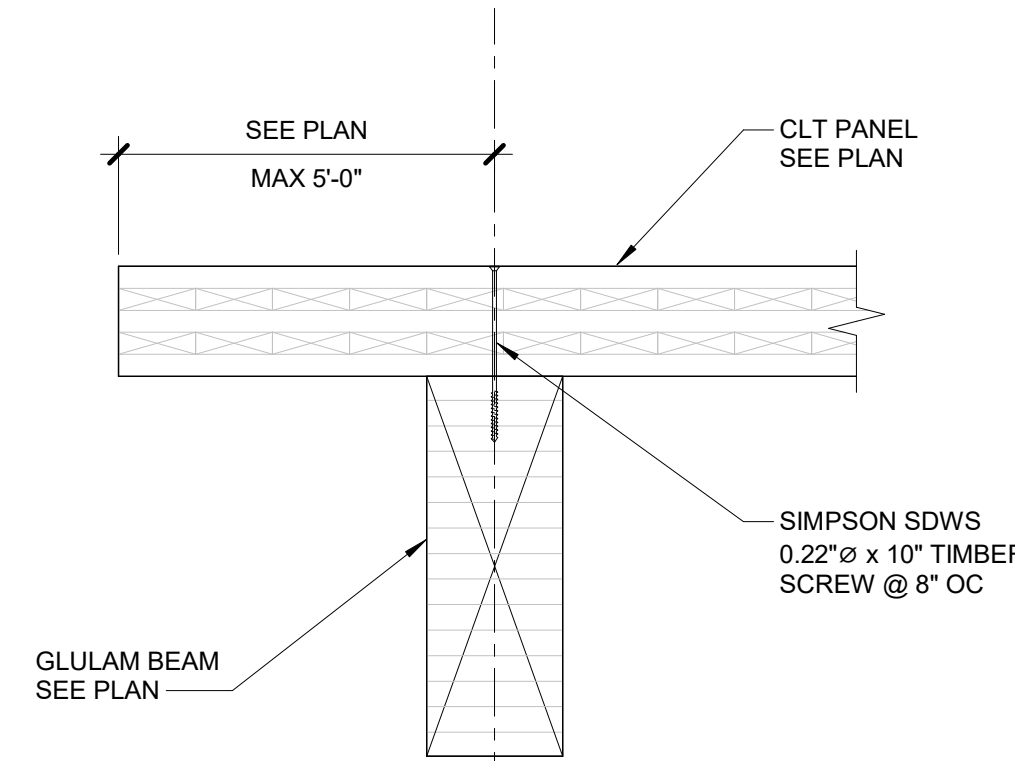
5 CLT TYPICAL SPLINE DETAIL
1" = 1'-0"



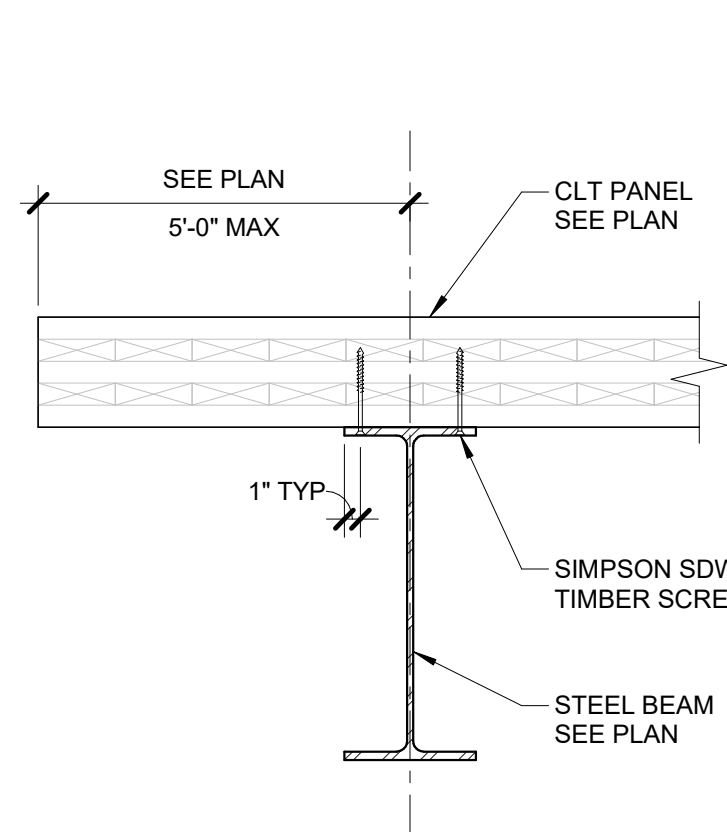
6 CLT PANEL JOINT AT BEAM SUPPORT
1" = 1'-0"



7 CLT PANEL CONTINUOUS AT BEAM SUPPORT
1" = 1'-0"

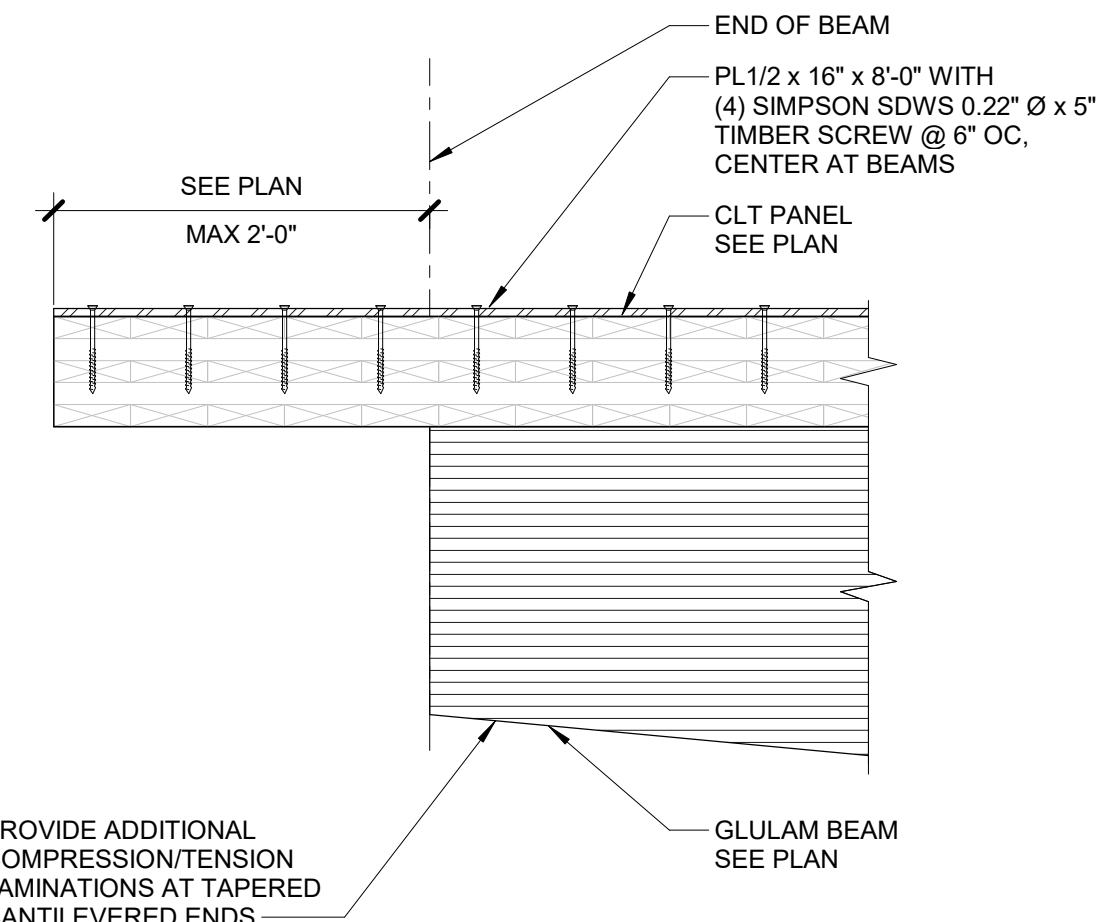


8 CLT PANEL END AT BEAM SUPPORT
1" = 1'-0"

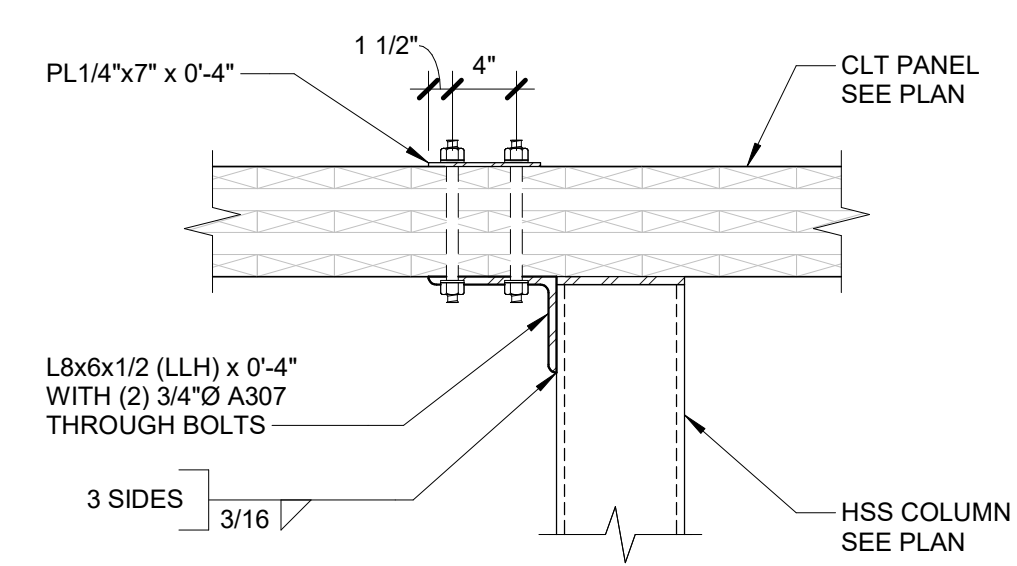


- NOTES:**
1. STAGGER CONNECTIONS UON.
 2. DETAIL AND TABLE TO BE READ IN CONJUNCTION WITH GENERAL NOTES.
 3. STEEL FABRICATOR TO COORDINATE ALL SCREW HOLES AND CLT ATTACHMENTS WITH CLT MANUF.

9 CLT PANEL ON STEEL BEAM
1" = 1'-0"



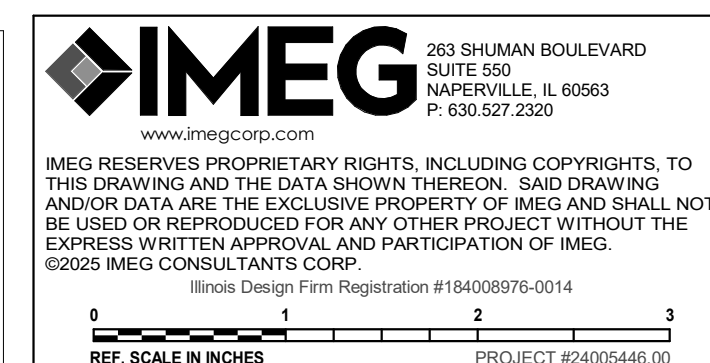
10 CLT PANEL END
1" = 1'-0"



- NOTES:**
1. STEEL BEAM NOT SHOWN FOR CLARITY.

11 TOP OF HSS DETAIL
1" = 1'-0"

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SHEET TITLE:
MASS TIMBER DETAILS

SHEET NUMBER:

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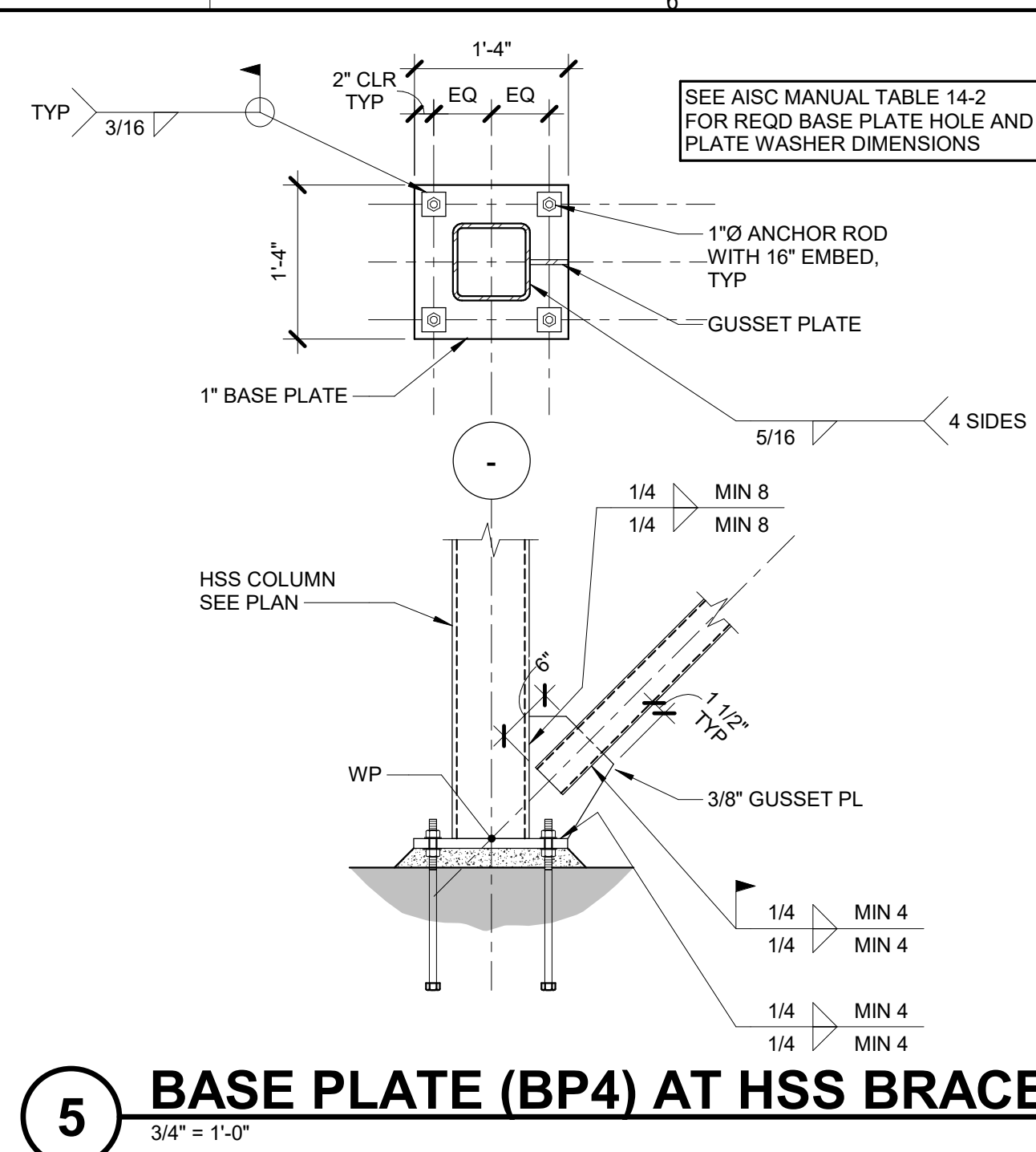
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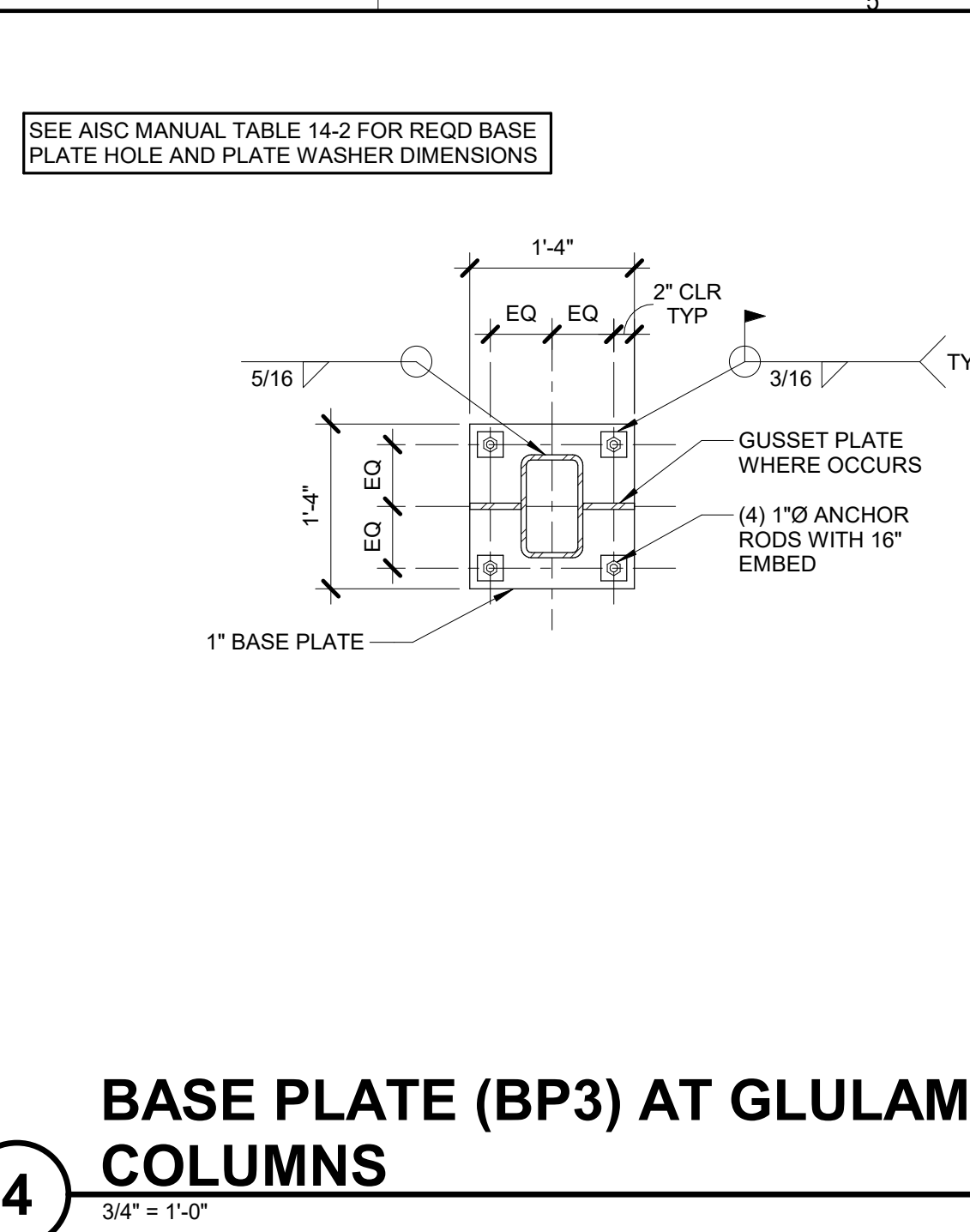
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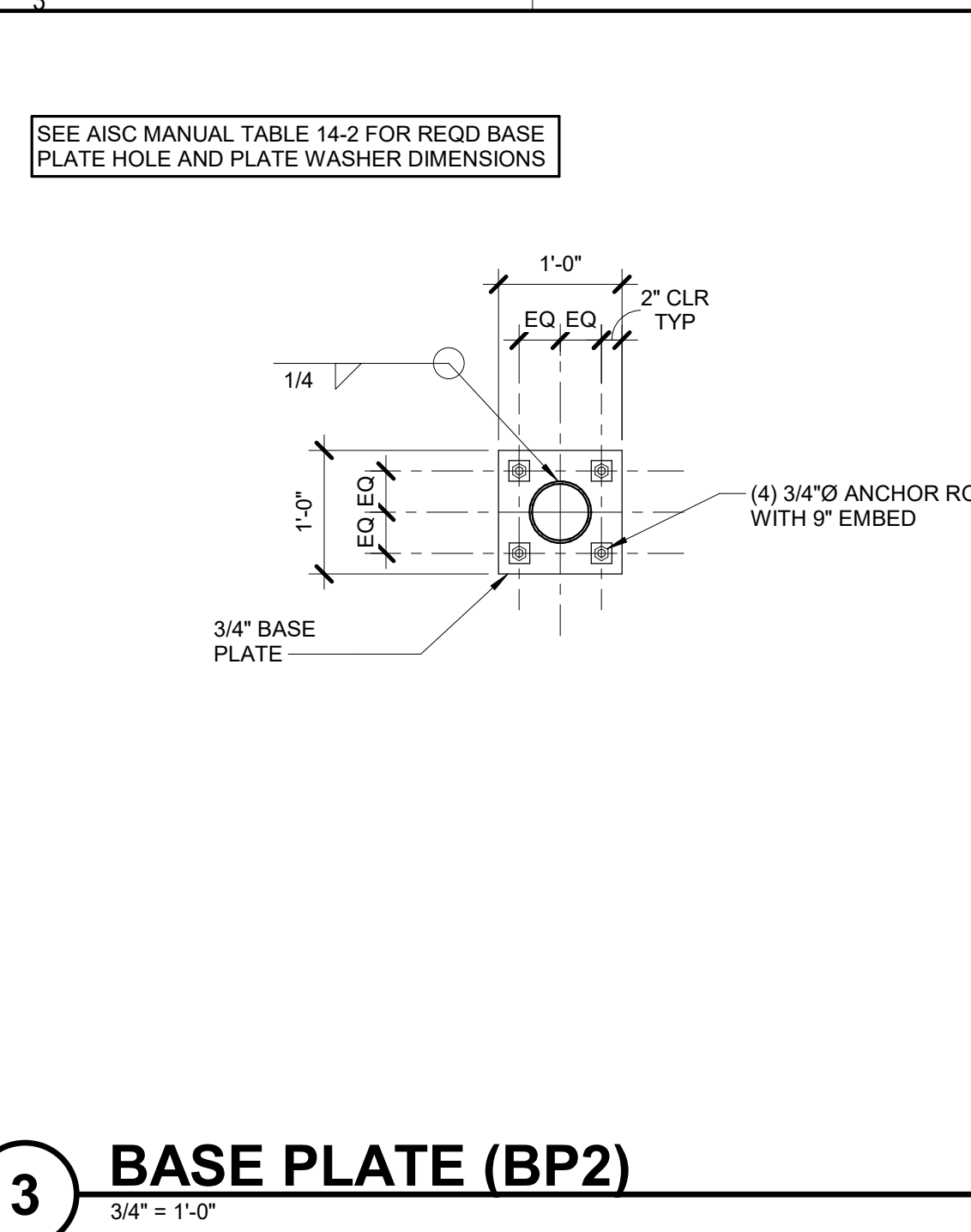
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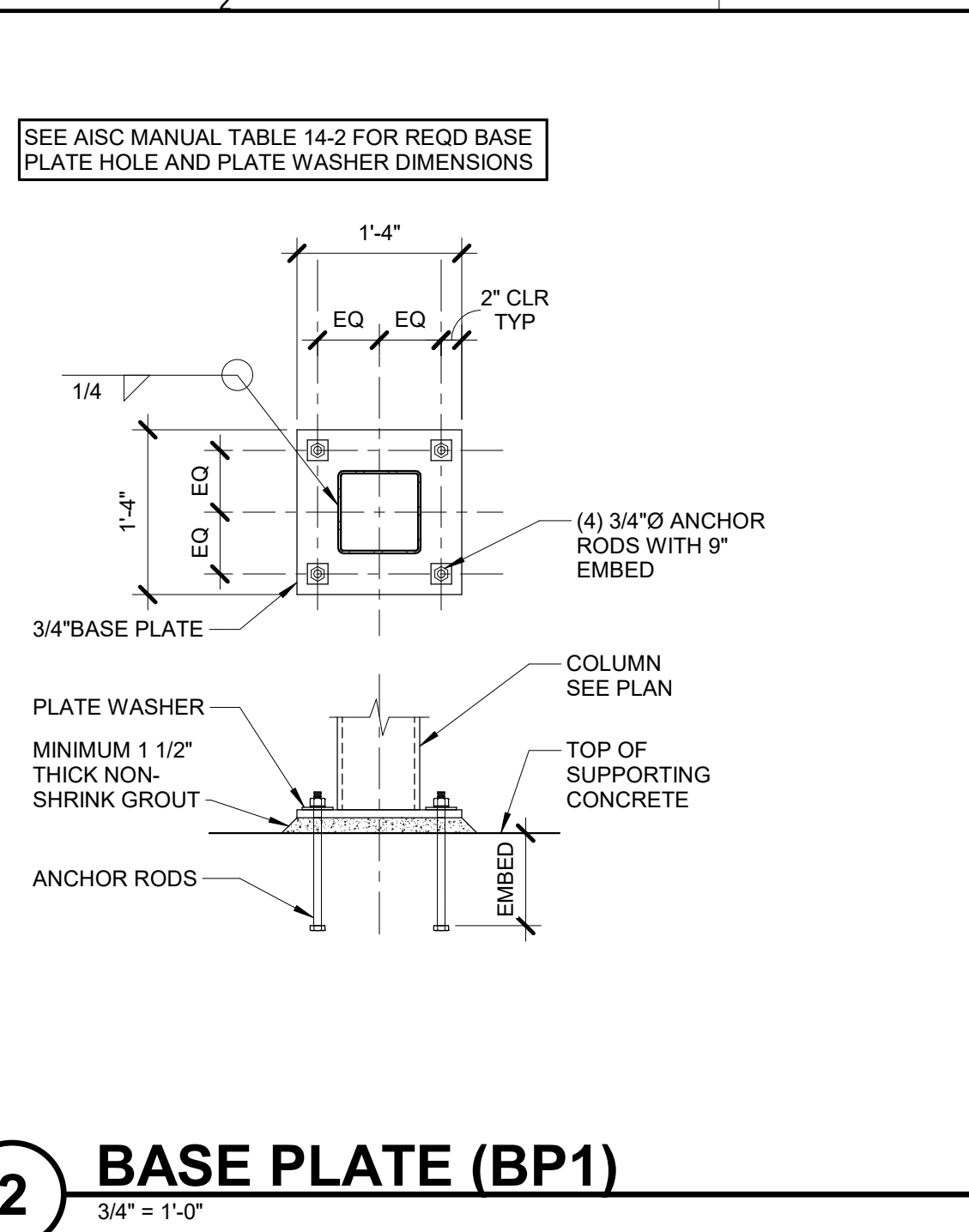
5 BASE PLATE (BP4) AT HSS BRACE
3/4" = 1'-0"



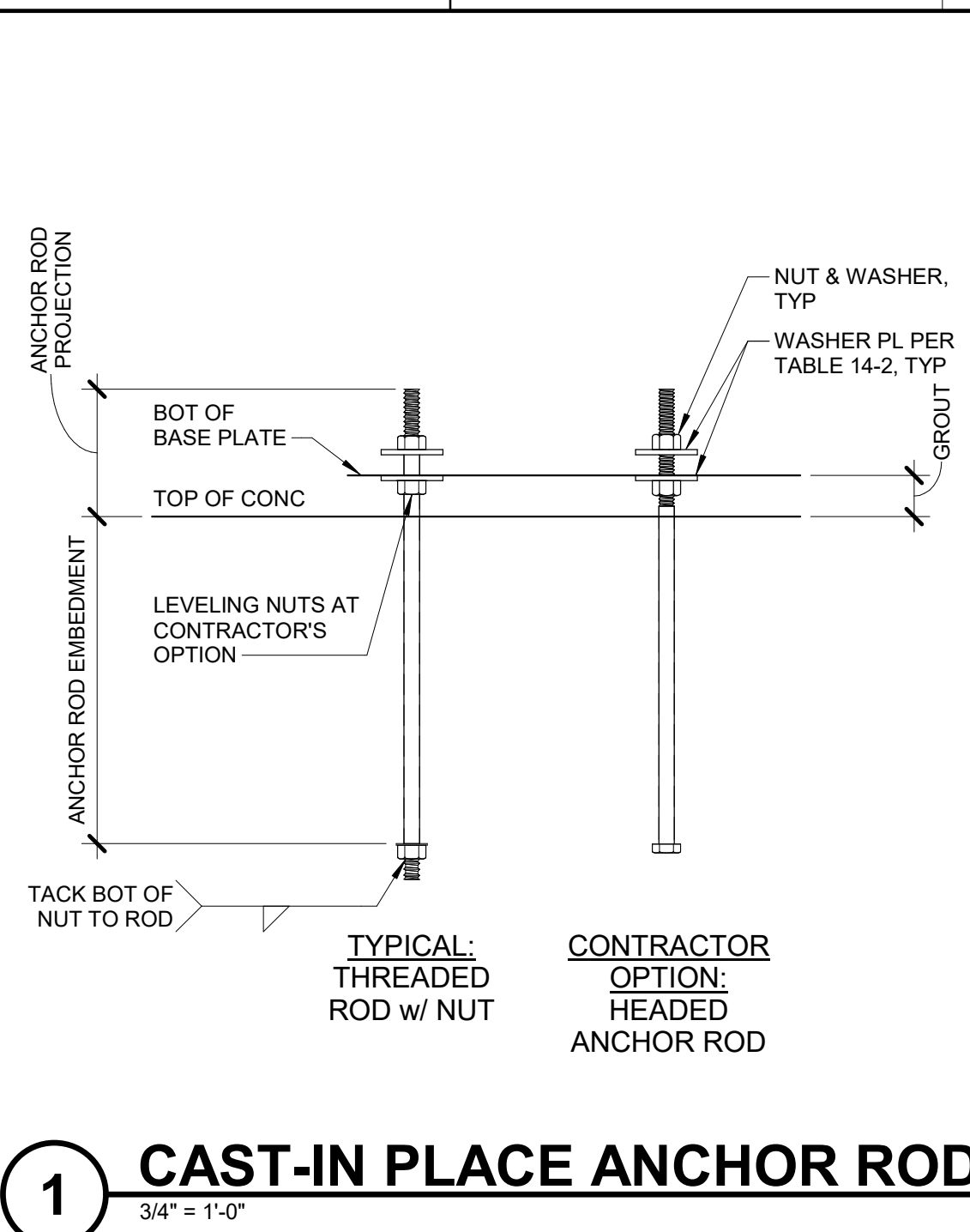
4 BASE PLATE (BP3) AT GLULAM COLUMNS
3/4" = 1'-0"



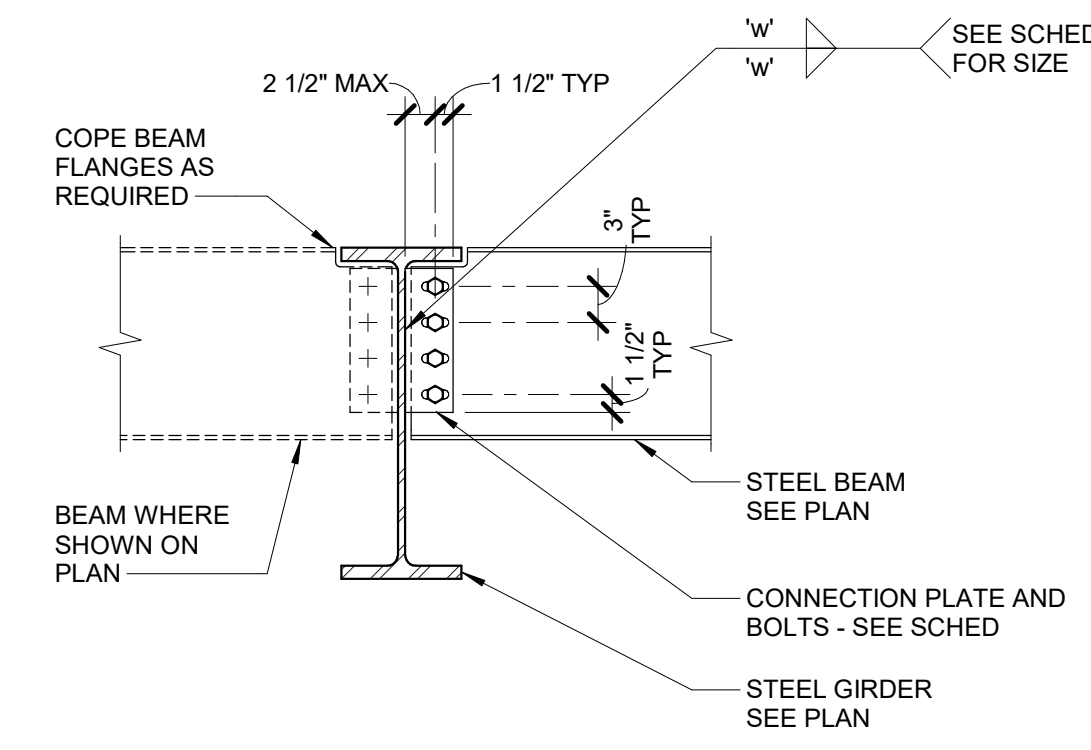
3 BASE PLATE (BP2)
3/4" = 1'-0"



2 BASE PLATE (BP1)
3/4" = 1'-0"



1 CAST-IN PLACE ANCHOR RODS
3/4" = 1'-0"

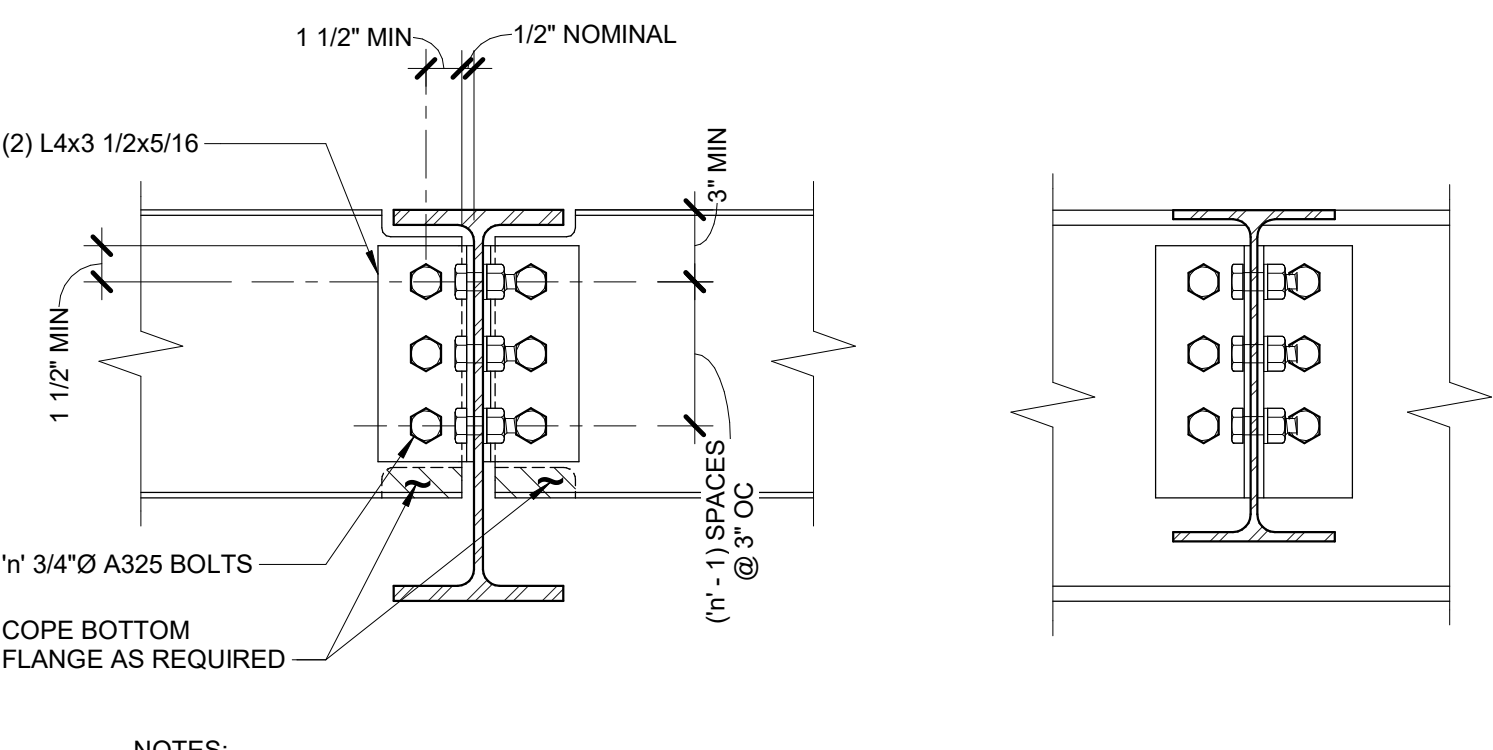


8 SHEAR CONNECTION TO BEAM
3/4" = 1'-0"

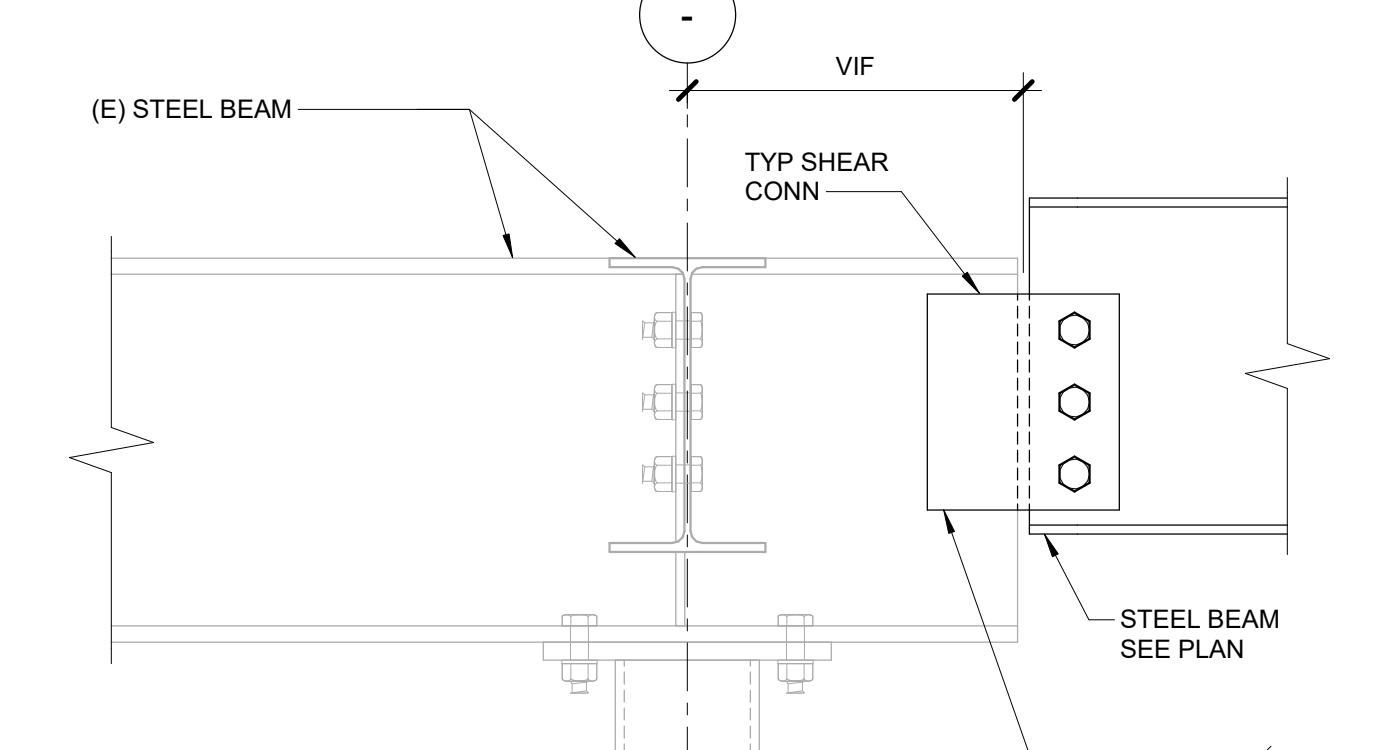
GRAVITY BEAM CONNECTION SCHEDULE			
BEAM SIZE	NO. OF BOLTS (3)	CONNECTION WITH 3/4" Ø BOLTS	
		PL THICK	PL WELD (1)
C8, C10	2	1/4"	3/16"
W8, W10	2	1/4"	3/16"
W12, W14	3	1/4"	3/16"
W16	4	5/16"	1/4"
W18	5	5/16"	1/4"

NOTES:
1. FILLET WELD SIZE, 'w', SHALL BE AS SHOWN UNLESS A LARGER SIZE IS REQUIRED BY AISC STEEL CONSTRUCTION MANUAL, TABLE J2.4.
2. BOLT SIZE AND QUANTITY SHALL BE TYP FOR ALL CONDITIONS UNLESS DETAILED OTHERWISE.

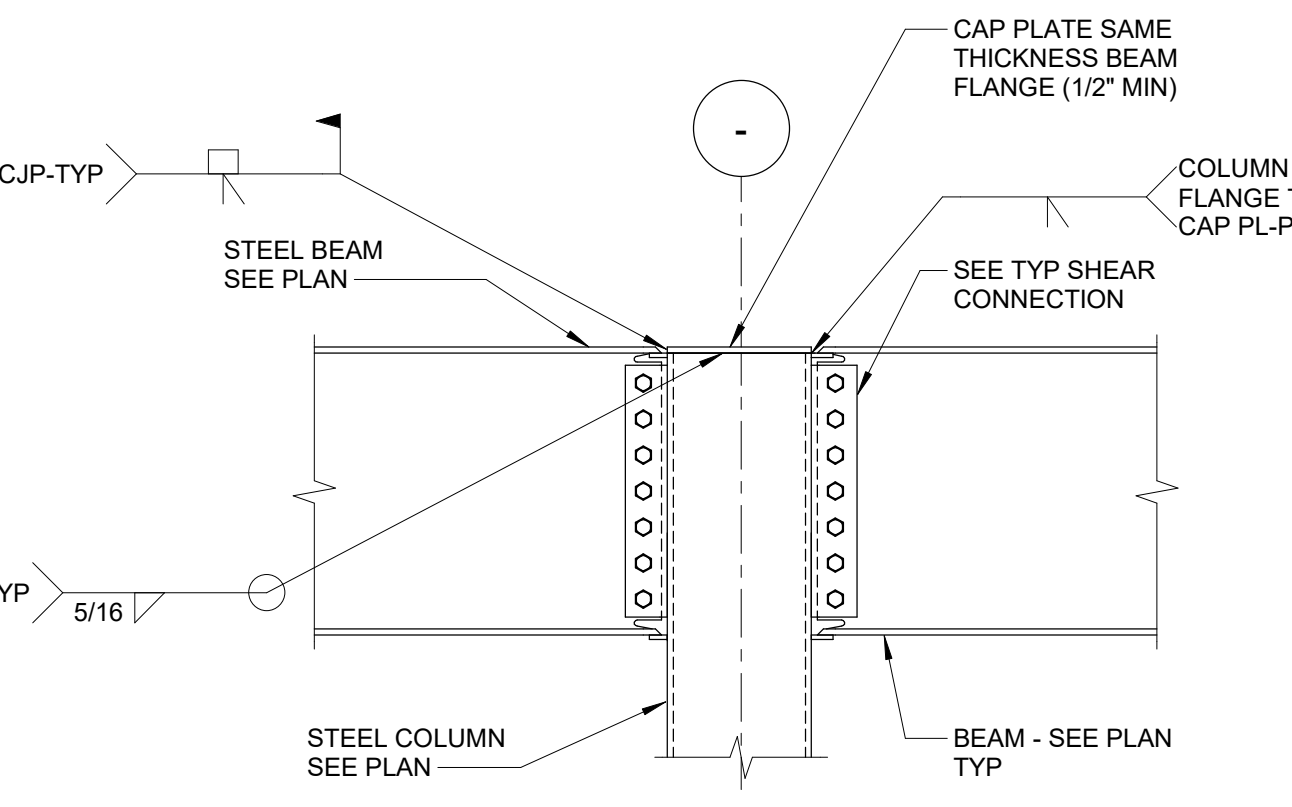
DOUBLE ANGLE CONN	
SUPPORTED BEAM	'n'
W8, W10	2
W12, W14	3
W16	4
W18	5



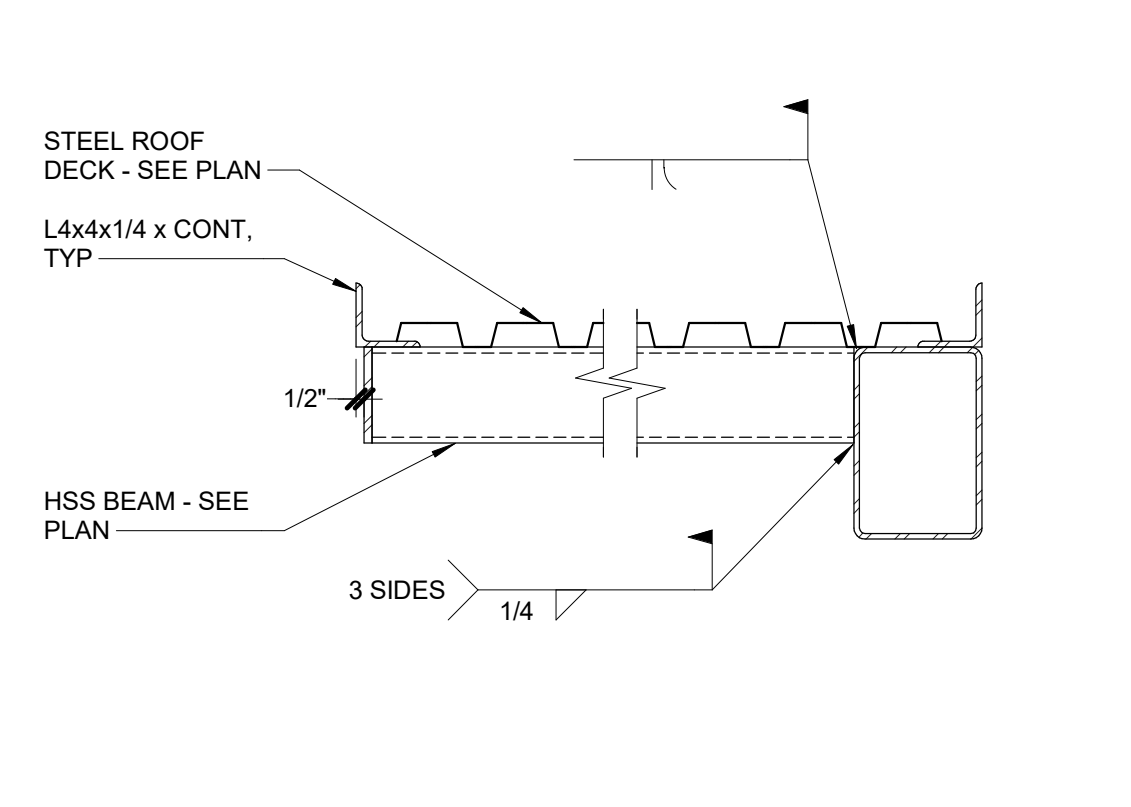
NOTES:
1. DETAILER IS RESPONSIBLE FOR FULLY DEVELOPING GEOMETRY AND DIMENSIONAL INFORMATION REQUIRED TO FABRICATE.
2. WHERE TYP SHEAR CONNECTION DETAIL IS NOT APPLICABLE, FABRICATOR SHALL SELECT AND DETAIL ALTERNATE CONNECTION CAPABLE OF DEVELOPING EQUAL STRENGTH. ALTERNATE CONNECTION SHALL BE SELECTED IN ACCORDANCE WITH AISC CONNECTION TABLES.



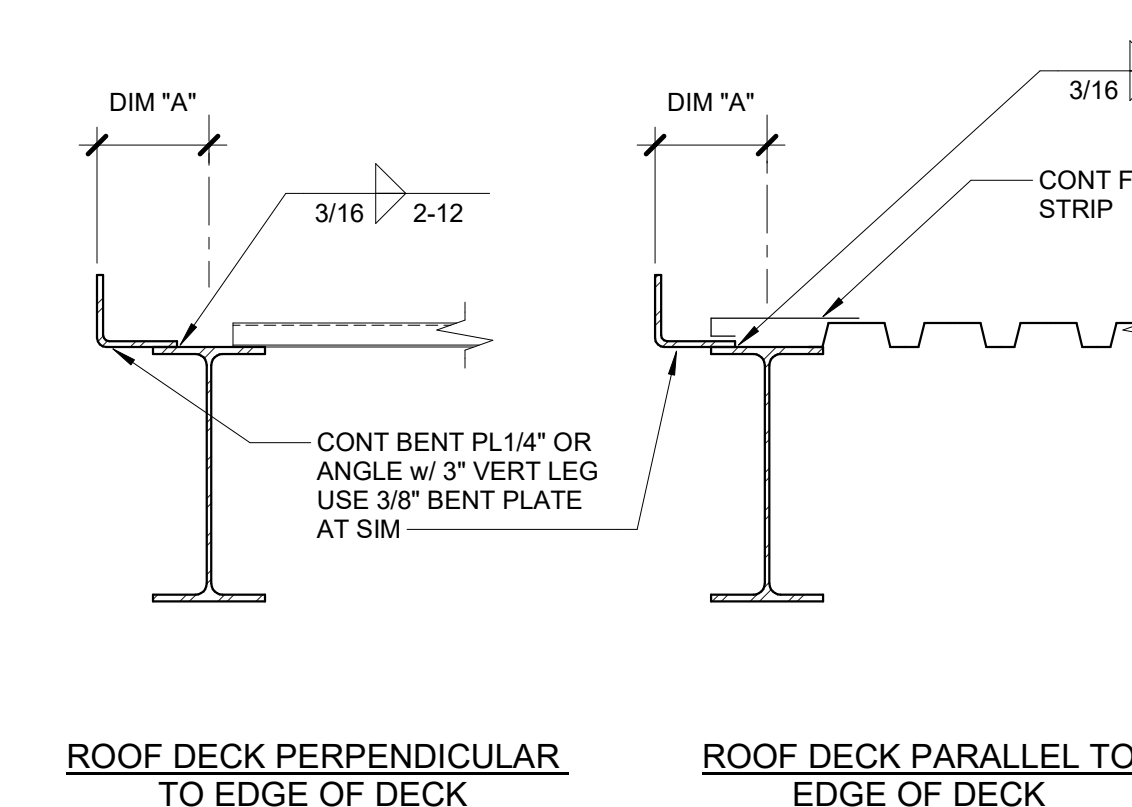
6 BEAM BEARING ON HSS COLUMN
1 1/2" = 1'-0"



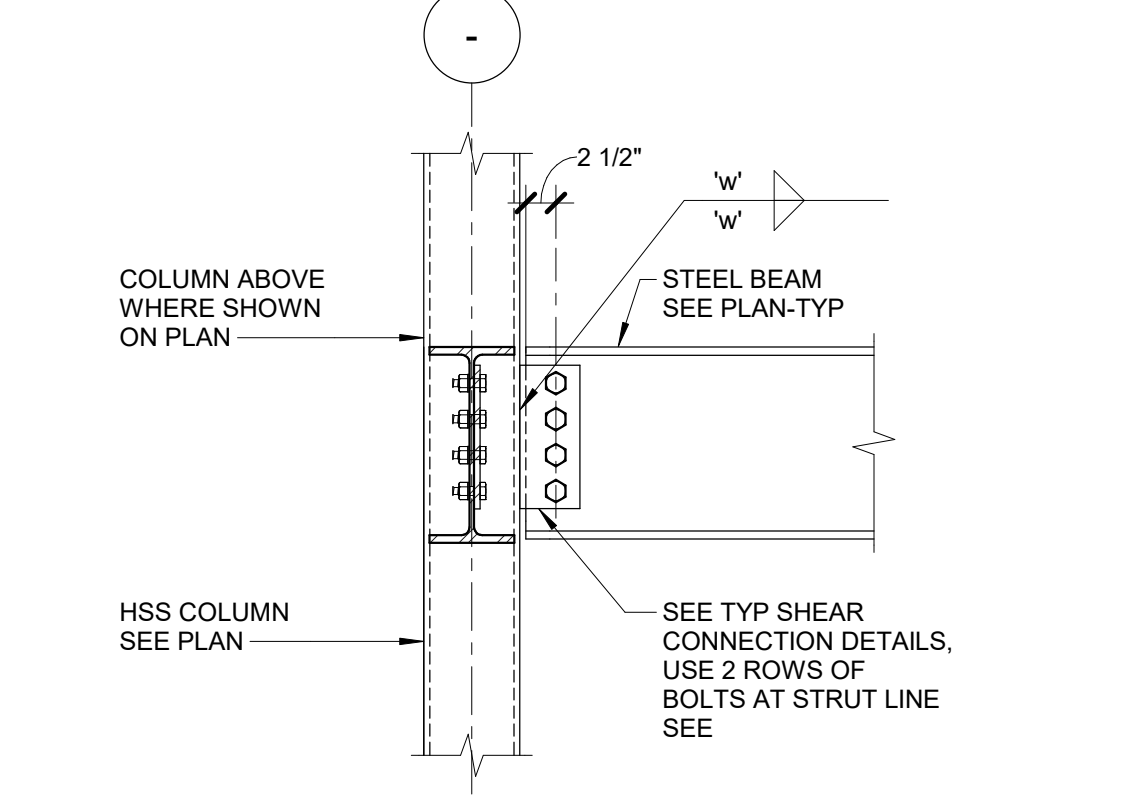
13 BEAM AT COLUMN MOMENT CONNECTION
3/4" = 1'-0"



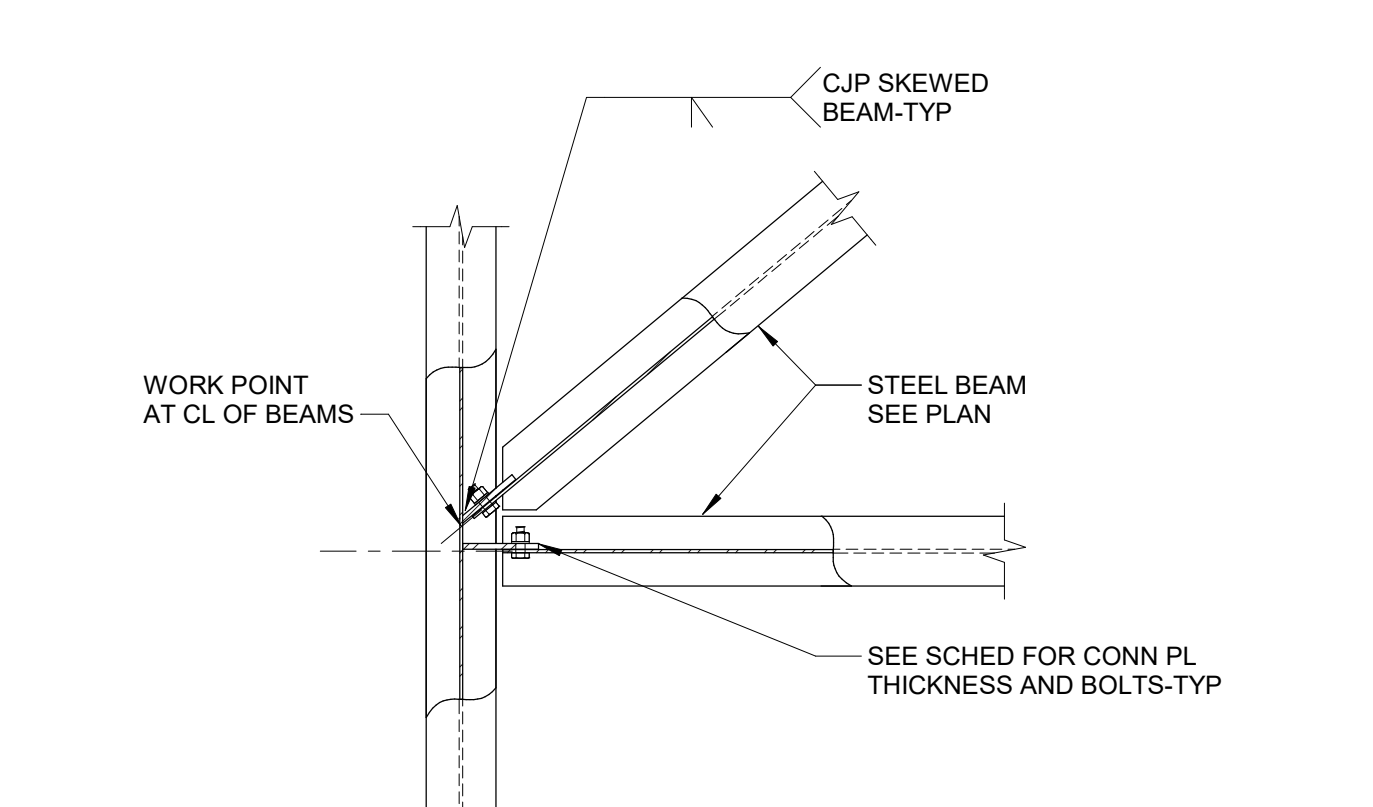
12 OUTRIGGER DETAIL
1" = 1'-0"



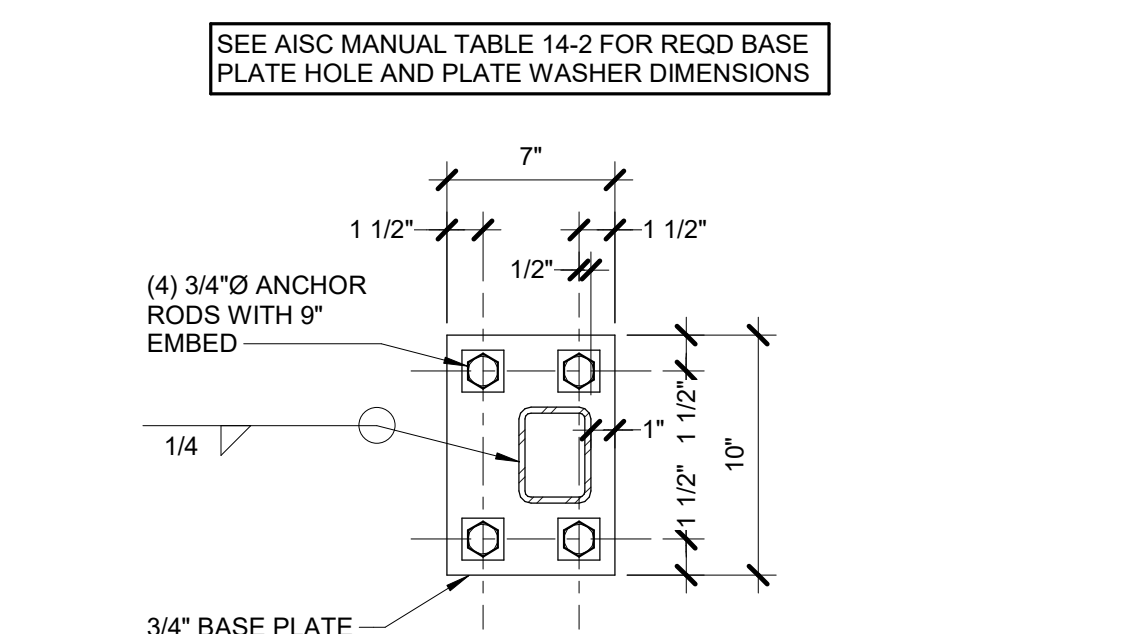
11 EDGE OF ROOF DECK
1" = 1'-0"



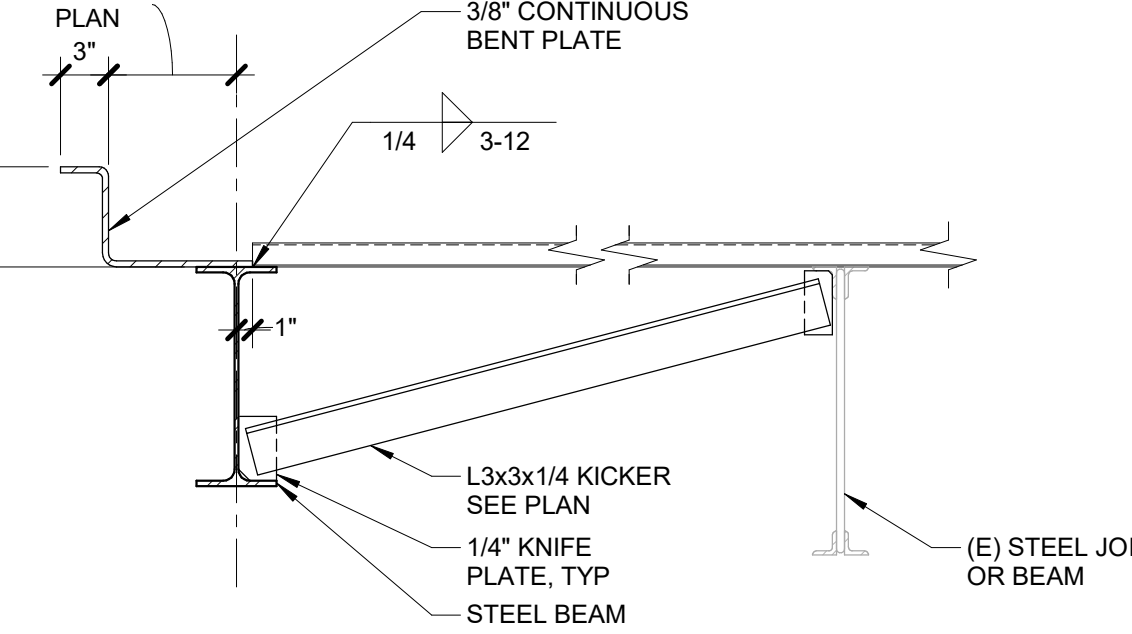
10 WF CONNECTION TO HSS COLUMN
3/4" = 1'-0"



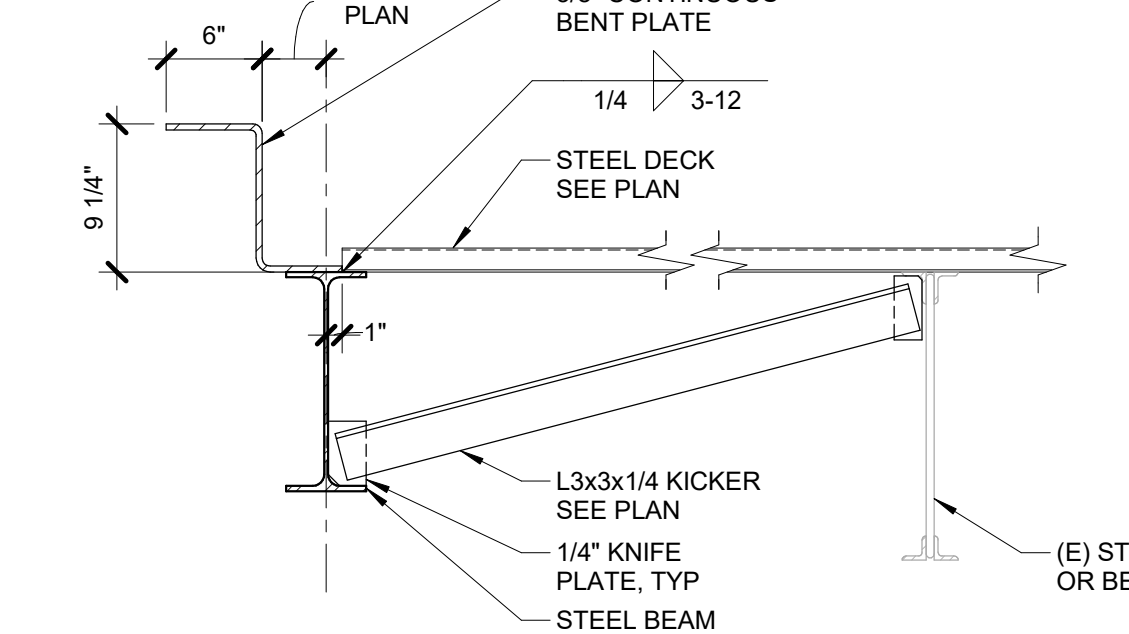
9 PLAN VIEW OF SKEWED SHEAR CONNECTIONS
3/4" = 1'-0"



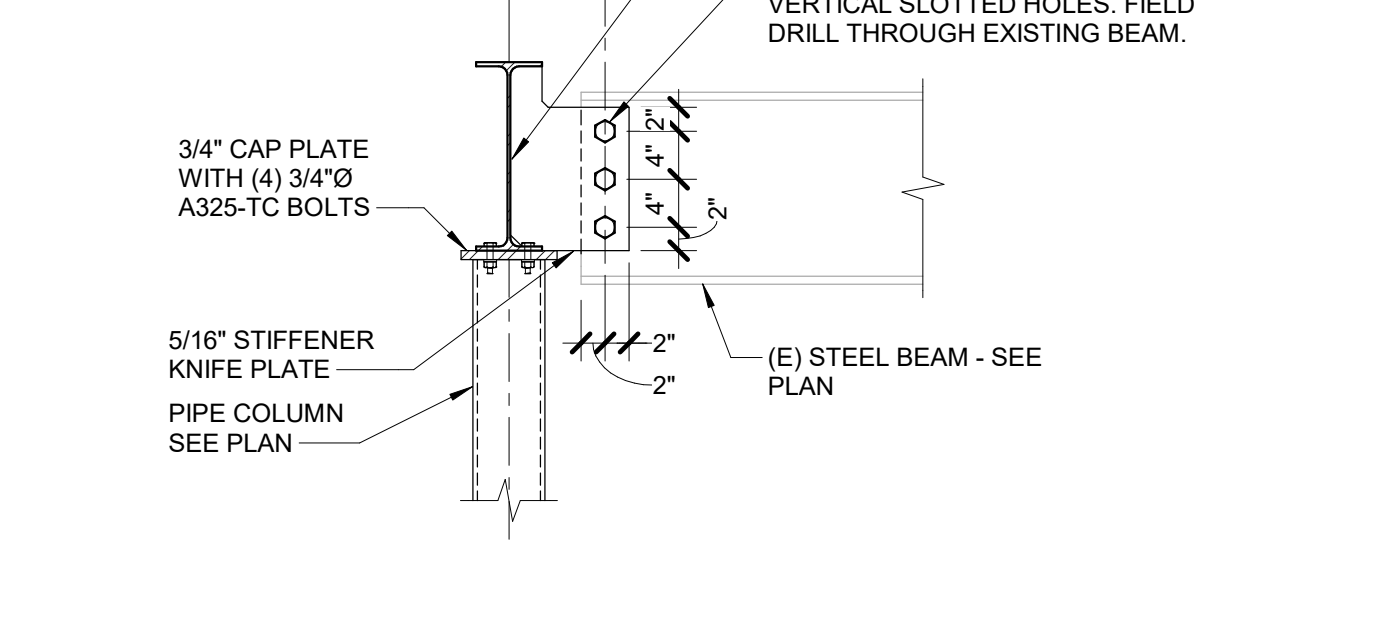
16 EDGE OF ROOF DECK AT CANOPY
1" = 1'-0"



15 EDGE OF ROOF DECK AT CURTAIN WALL
1" = 1'-0"



14 COLUMN CONNECTION DETAIL
3/4" = 1'-0"



8 SHEAR CONNECTION TO BEAM
3/4" = 1'-0"

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REV. SCALE IN INCHES
1 2 3
1/8 1/4 3/8 1/2 3/4 1 1 1/2 2 3 4 5 6 7 8 9 10



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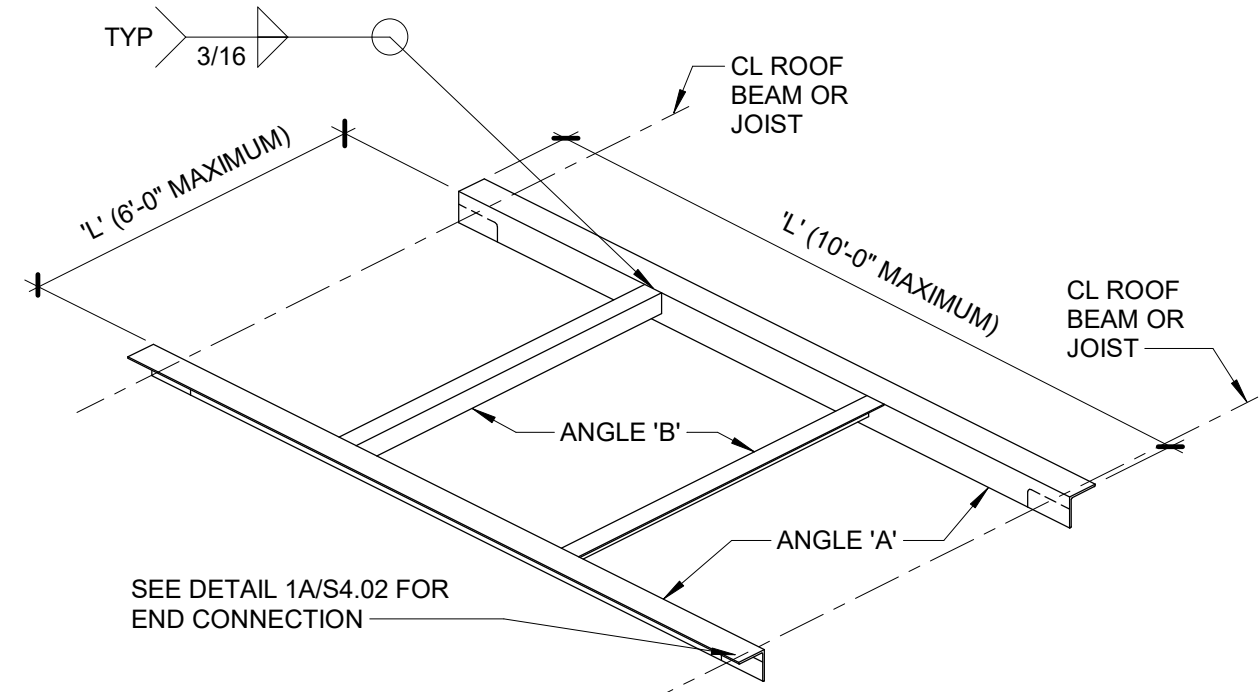
NO.	DESCRIPTION:	DATE:

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5/16/2025 6:49:35 AM



L'	ANGLE 'A'	ANGLE 'B'
UP TO 1'-0"	NONE	NONE
1'-1" TO 4'-6"	L4x4x1/4	L4x4x1/4
4'-7" TO 6'-0"	L4x4x5/16	L4x4x1/4
6'-1" TO 8'-0"	L4x4x3/8	-
8'-1" TO 10'-0"	L6x4x3/8 (LLV)	-

- NOTES:
- SEE ARCH AND MECHANICAL DRAWINGS FOR SIZE AND LOCATION OF ALL OPENINGS.
 - ROOF OPENING FRAMING NOT REQUIRED AT SIDE DISCHARGE ROOF DRAINS. COORDINATE WITH MECHANICAL CONTRACTOR.

1 ROOF OPENING FRAMING

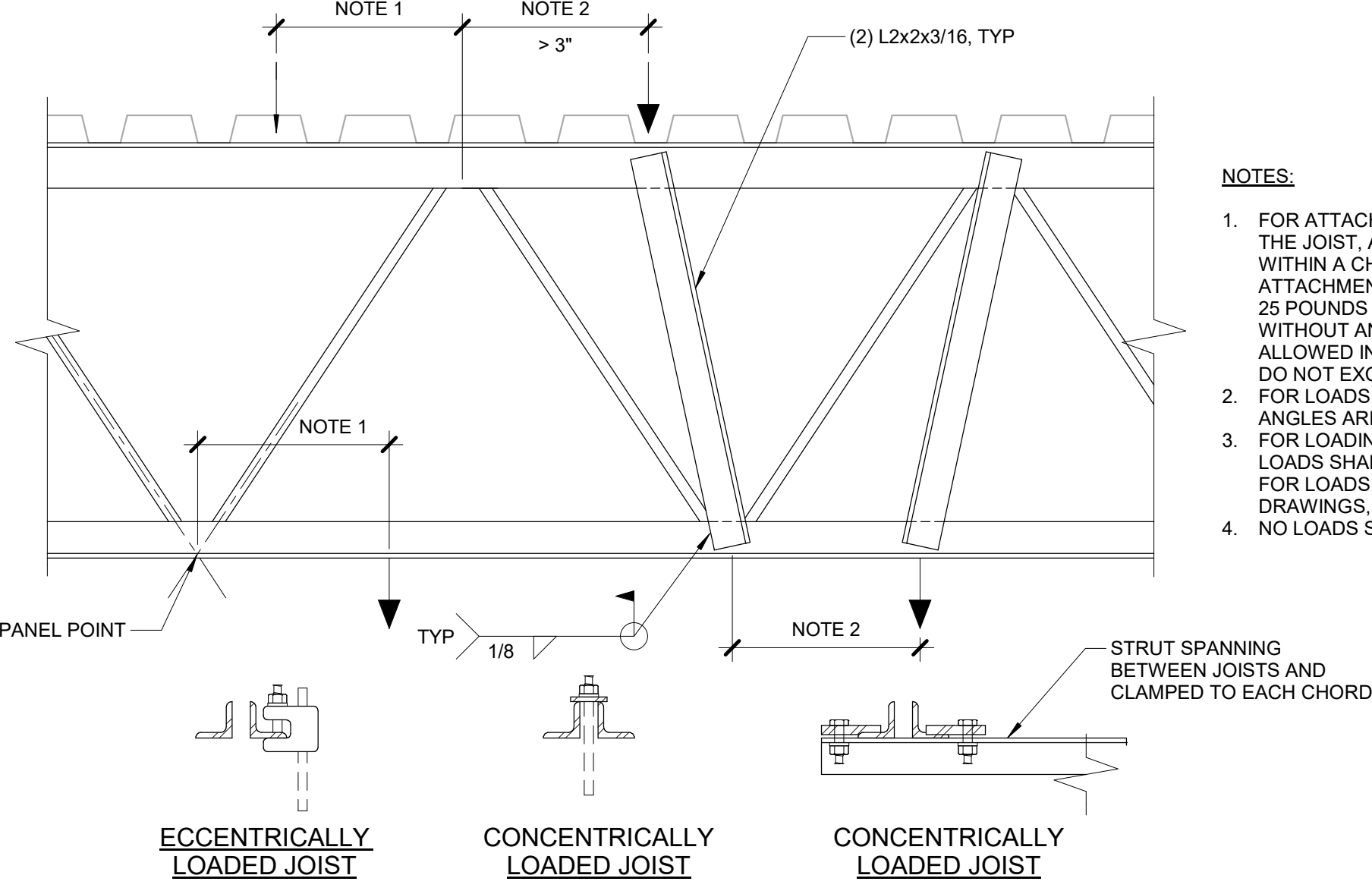
3/4" = 1'-0"

1A ANGLE TO JOIST CONNECTION

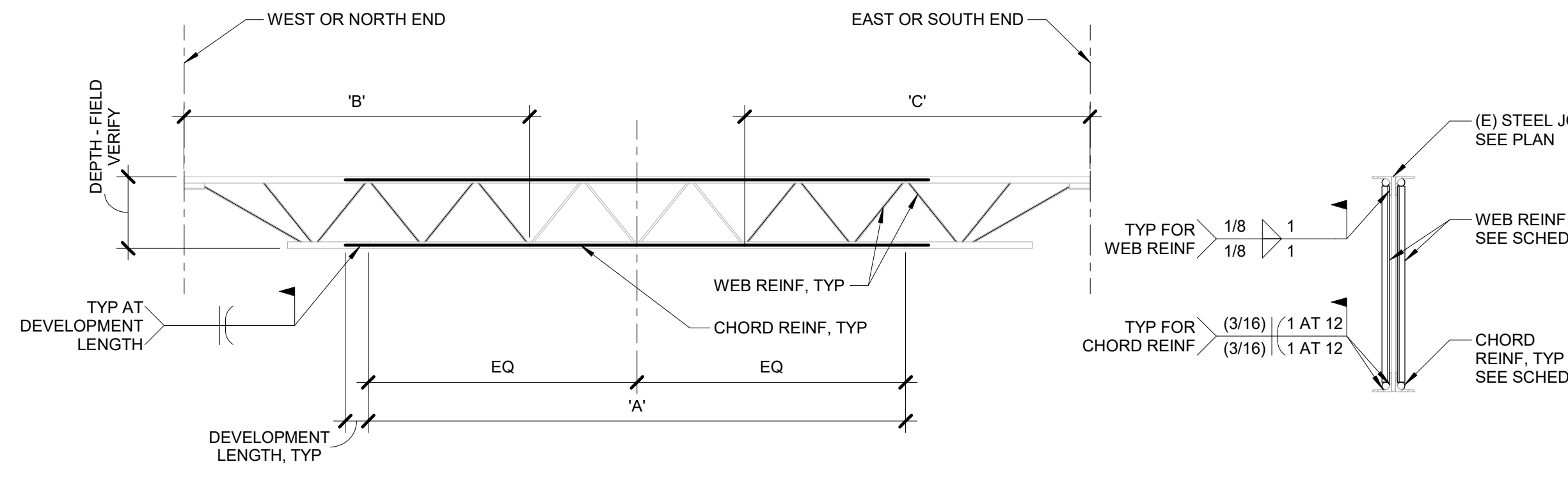
3/4" = 1'-0"

2 CONCENTRATED LOADS ON K-JOIST

1 1/2" = 1'-0"



- NOTES:
- FOR ATTACHMENTS TO JOISTS THAT ARE CONCENTRICALLY LOADED ON THE JOIST, A MAX OF 100 POUNDS MAY BE ATTACHED TO THE JOIST WITHIN A CHORD PANEL WITHOUT AN ADDITIONAL ANGLE. FOR ATTACHMENTS TO JOISTS THAT ARE ECCENTRICALLY LOADED, A MAX OF 25 POUNDS MAY BE ATTACHED TO THE JOIST WITHIN A CHORD PANEL WITHOUT AN ADDITIONAL ANGLE. MULTIPLE ATTACHMENTS ARE ALLOWED IN EACH CHORD PANEL AS LONG AS THE SUM OF THE LOADS DO NOT EXCEED THE MAX LOAD INDICATED.
 - FOR LOADS BETWEEN 100 POUNDS AND 200 POUNDS, ADDITIONAL ANGLES ARE REQUIRED AND JOIST MUST BE CONCENTRICALLY LOADED.
 - FOR LOADING CONDITIONS IN NOTES 1 AND 2 ABOVE, TOTAL SUM OF LOADS SHALL NOT EXCEED 200 LBS FOR AN 8 FOOT SEGMENT OF JOIST. FOR LOADS GREATER THAN 200 POUNDS AND NOT NOTED ON THE DRAWINGS, CONTACT ENGINEER PRIOR TO INSTALLATION.
 - NO LOADS SHALL BE SUPPORTED FROM JOIST BRIDGING.



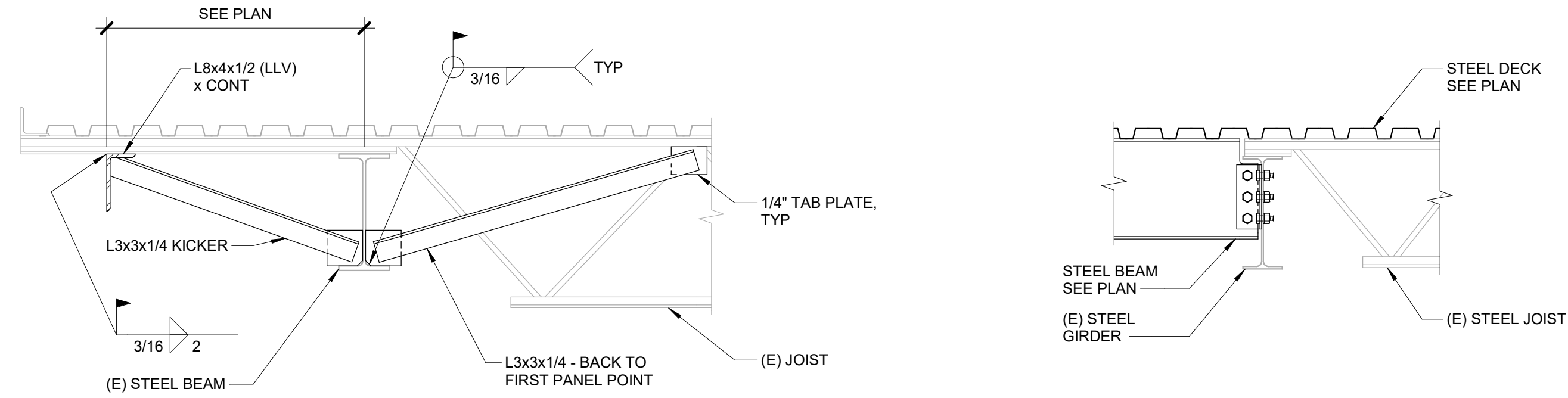
- NOTES:
- REMOVE AND REINSTALL JOIST BRIDGING AS NECESSARY TO INSTALL REINF MEMBERS.
 - JOIST REINF IS DUE TO NEW ROOF EQUIPMENT OR SNOW DRIFT. PRIOR TO PLACING EQUIPMENT OR BUILDING TALLER STRUCTURE, JOIST REINF MUST BE INSTALLED.
 - SPLICE CHORD REINF SEGMENTS TOGETHER TO DEVELOP FULL CAPACITY OF MEMBER. SPLICE DETAIL BY STEEL FABRICATOR.

3 JOIST WEB / CHORD REINFORCEMENT

3/4" = 1'-0"

4 JOIST SEAT REINFORCEMENT

3/4" = 1'-0"



5 BOTTOM FLANGE BRACING

3/4" = 1'-0"

6 JOIST / BEAM BEARING AT ROOF GIRDER

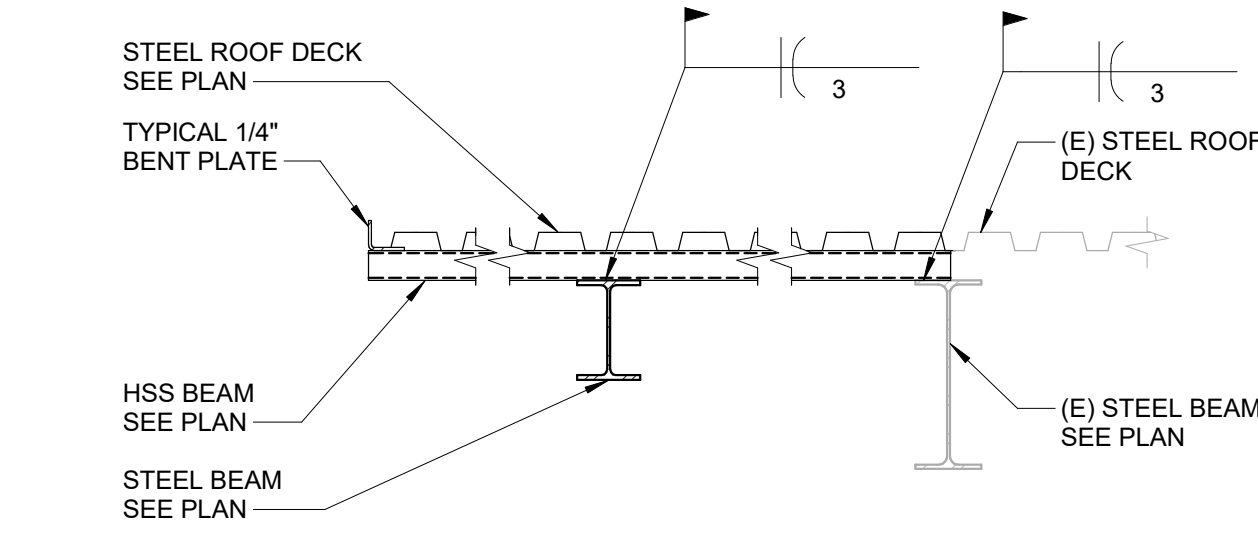
3/4" = 1'-0"

7 TYPICAL DECK LAP DETAIL

3/4" = 1'-0"

8 LINTEL (ML1) DETAIL

3/4" = 1'-0"

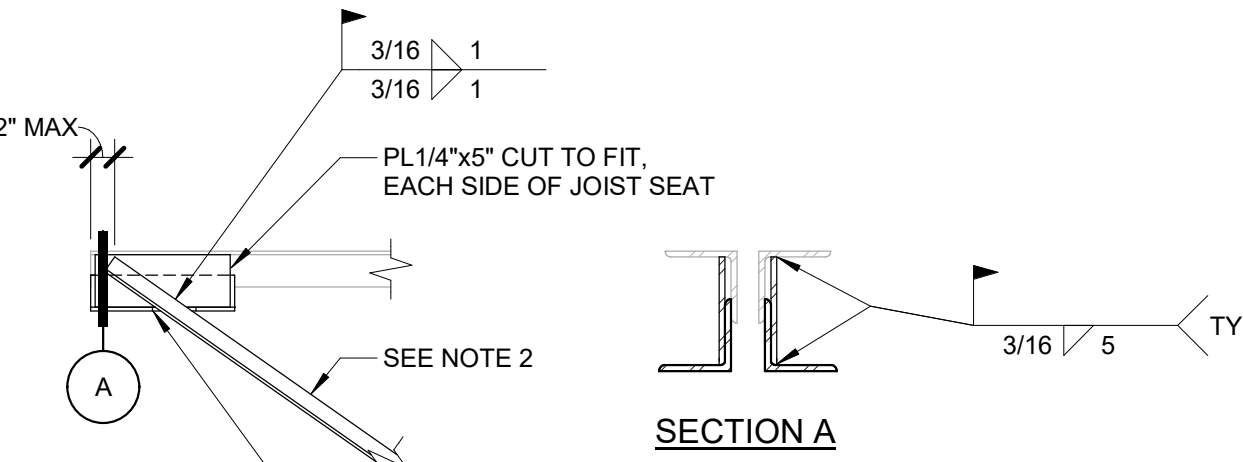
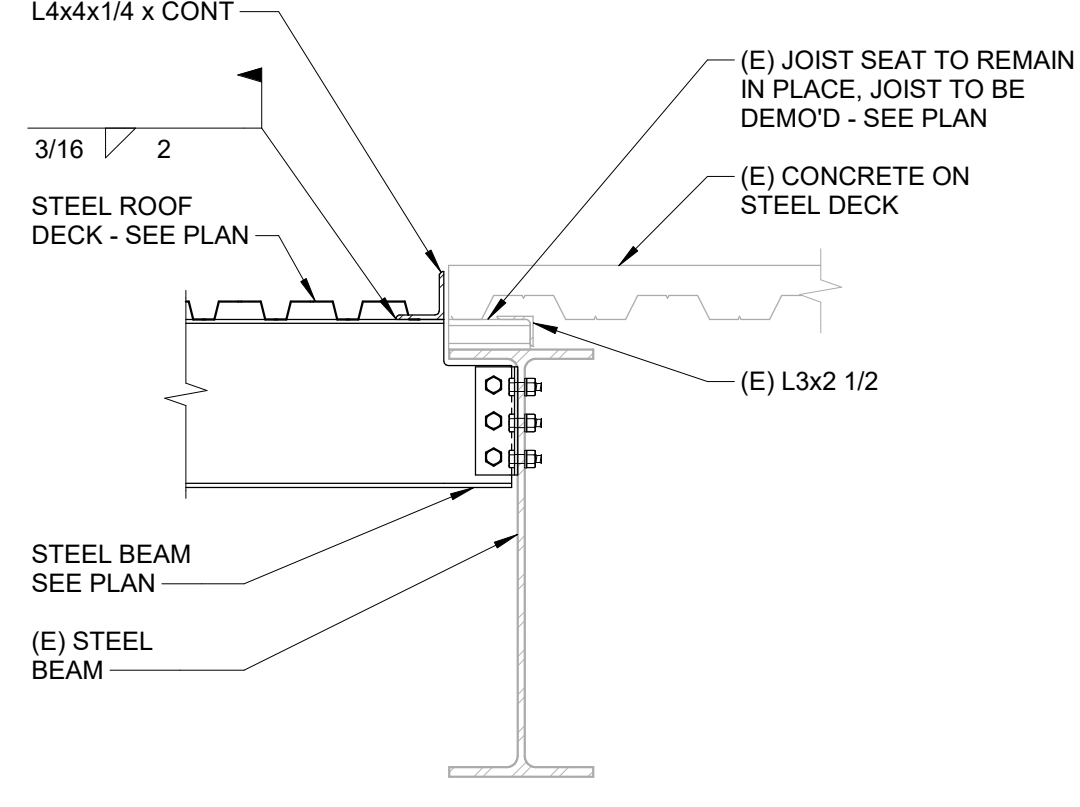


9 FRAMING DETAIL

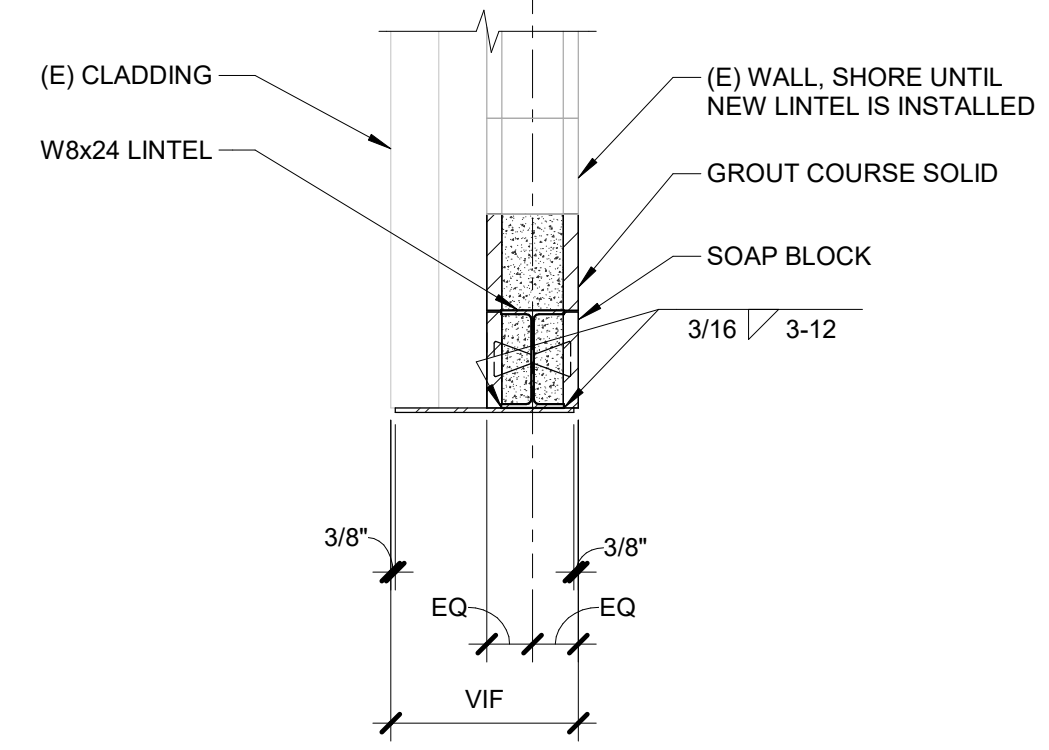
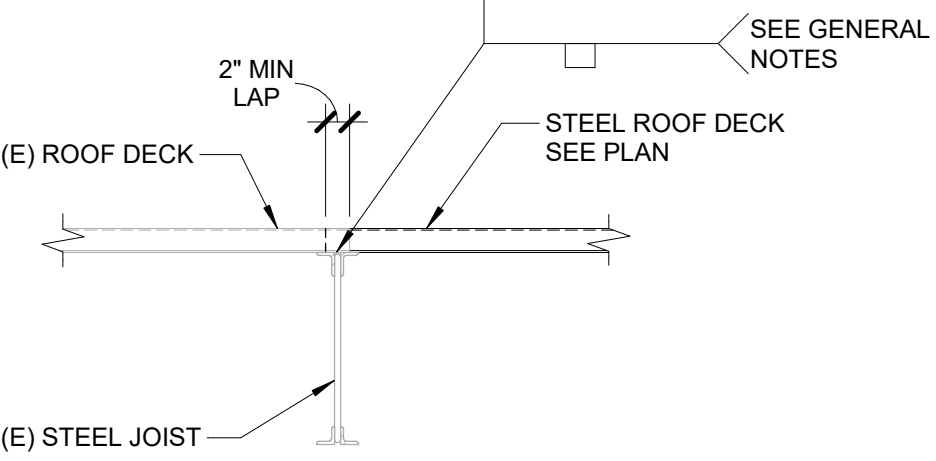
3/4" = 1'-0"

10 BEAM TO EXISTING GIRDER DETAIL

3/4" = 1'-0"



- NOTES:
- DETAIL REQUIRED ONLY WHEN FIRST WEB MEMBER IS REINF.
 - ANGLE REINF SHOWN TO ILLUSTRATE CONCEPT. (E) WEB NOT SHOWN FOR CLARITY.



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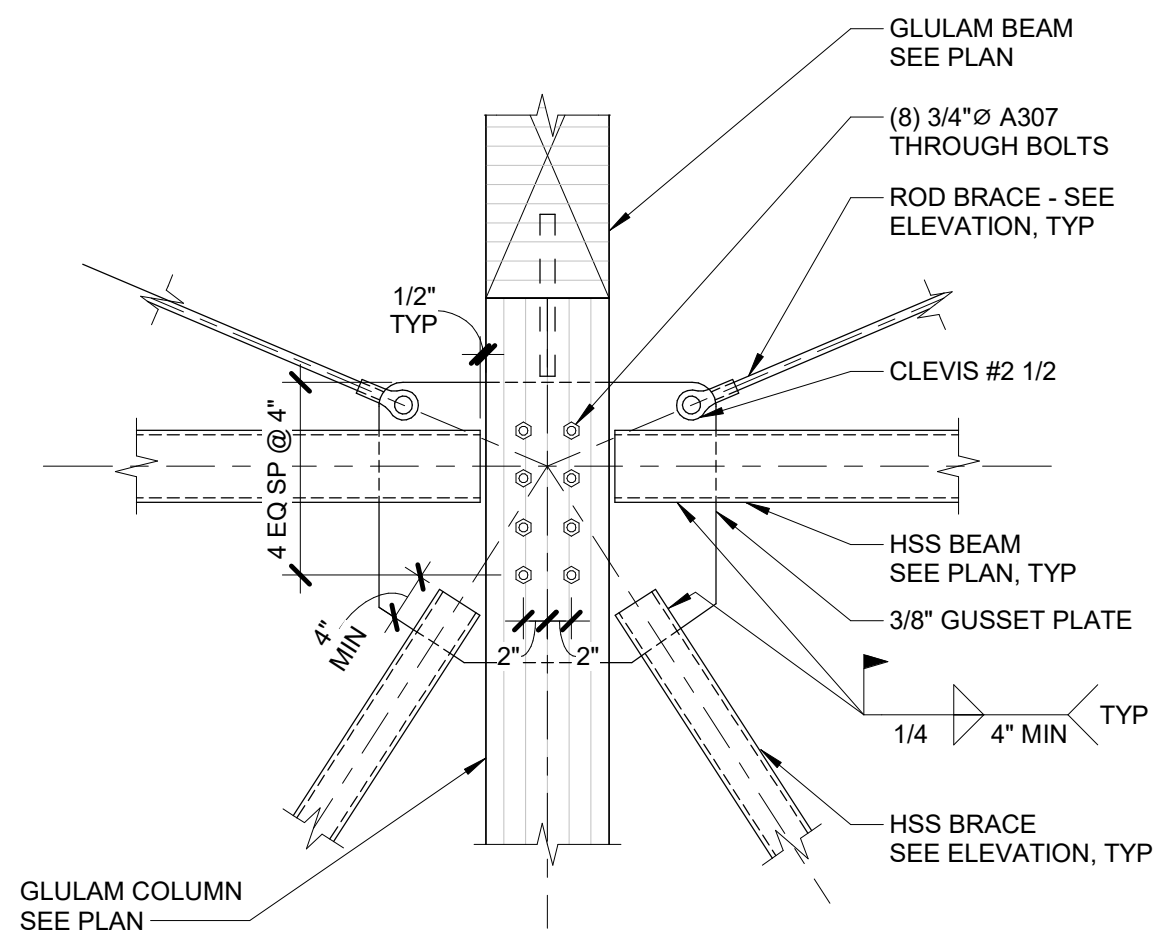
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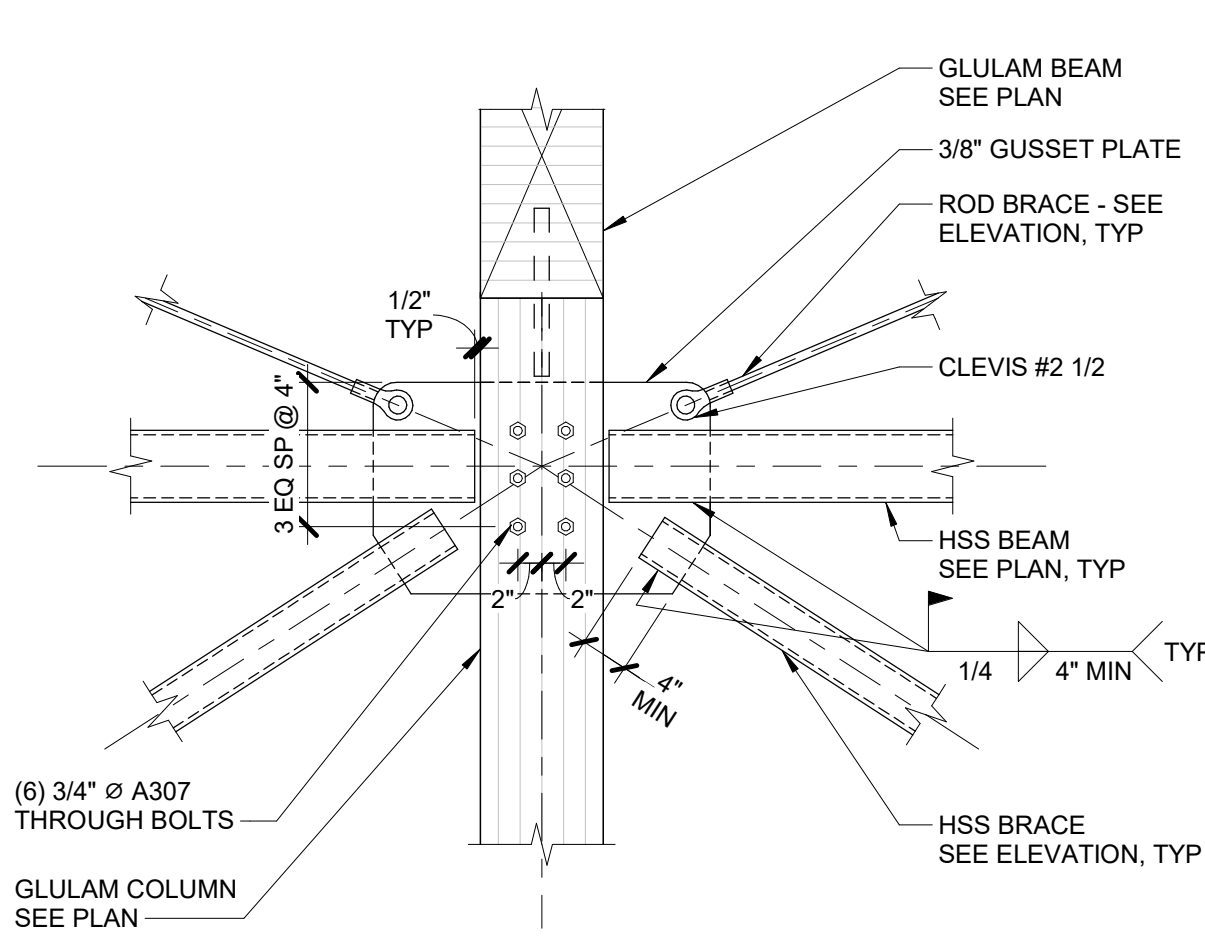
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NOTES:
1. FABRICATOR SHALL OPTIMIZE THE SIZE AND SHAPE OF THE GUSSET PLATE TO WORK WITH GEOMETRY OF BRACES.

1 CONNECTION DETAIL

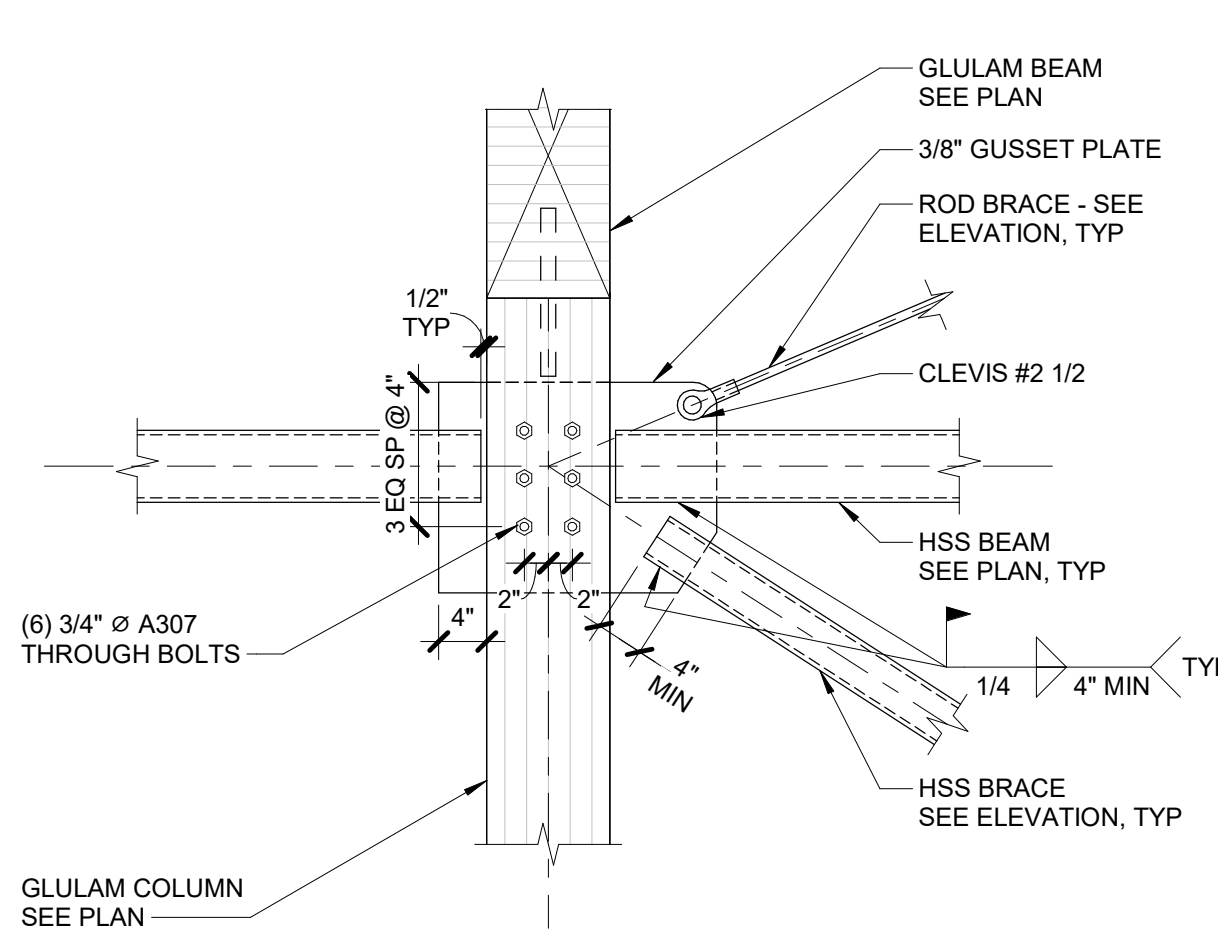
3/4" = 1'-0"



NOTES:
1. FABRICATOR SHALL OPTIMIZE THE SIZE AND SHAPE OF THE GUSSET PLATE TO WORK WITH GEOMETRY OF BRACES.

2 CONNECTION DETAIL

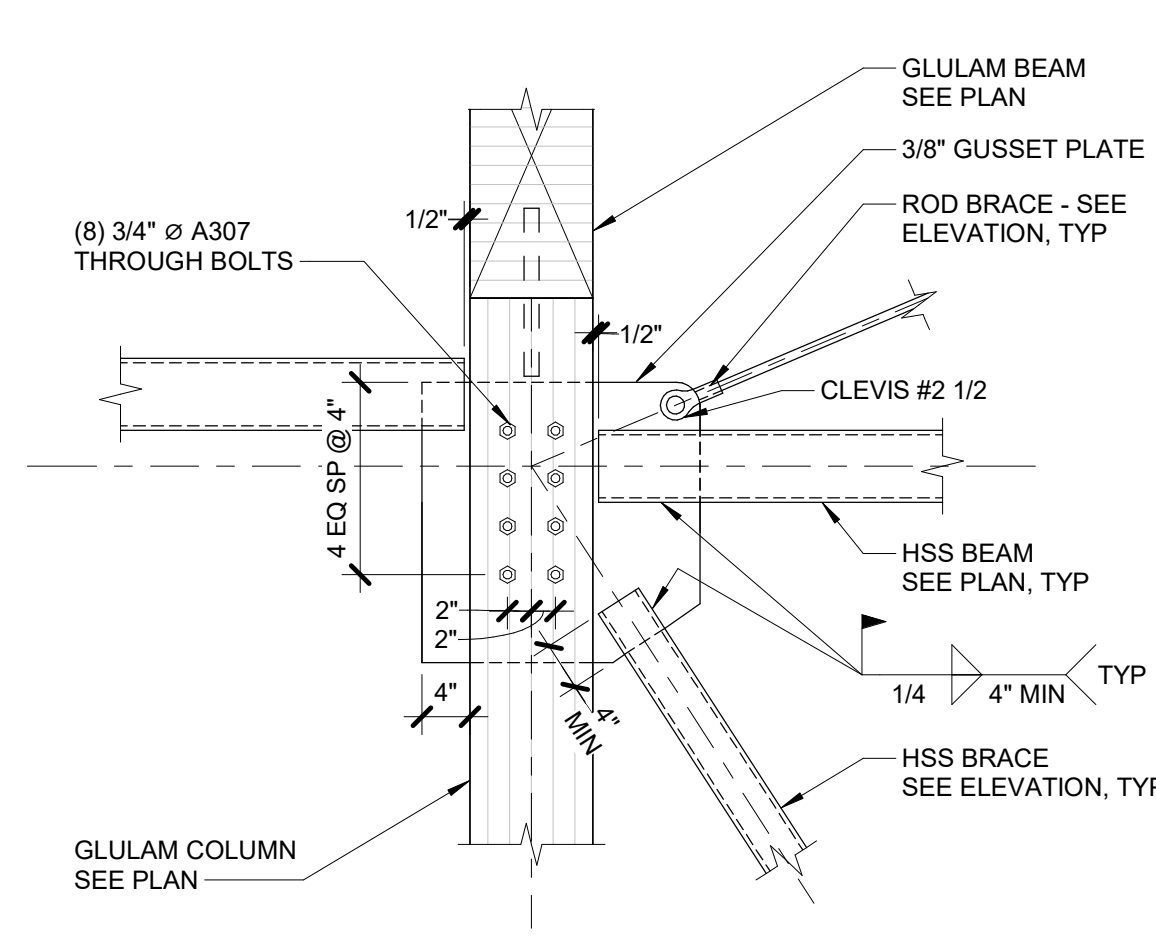
3/4" = 1'-0"



NOTES:
1. FABRICATOR SHALL OPTIMIZE THE SIZE AND SHAPE OF THE GUSSET PLATE TO WORK WITH GEOMETRY OF BRACES.

3 CONNECTION DETAIL

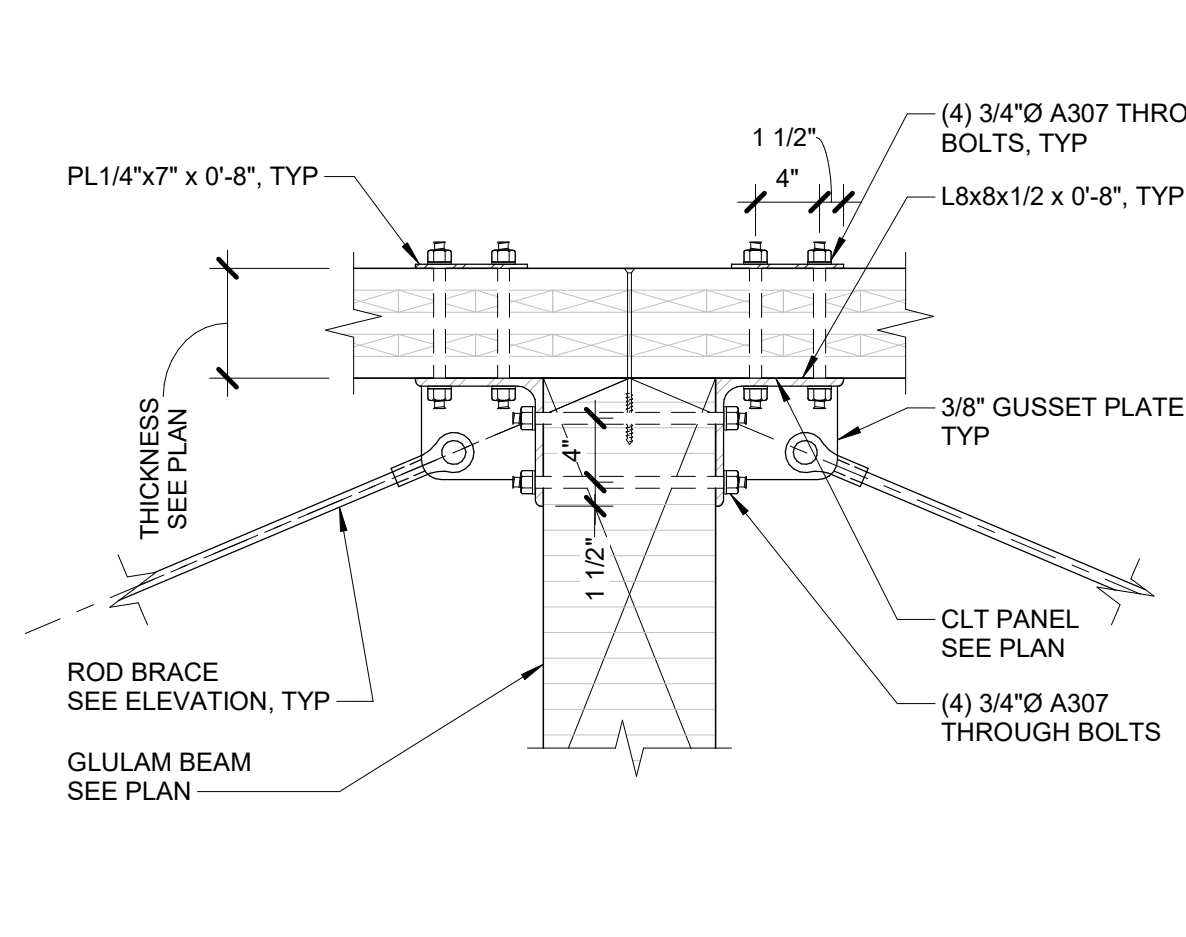
3/4" = 1'-0"



NOTES:
1. FABRICATOR SHALL OPTIMIZE THE SIZE AND SHAPE OF THE GUSSET PLATE TO WORK WITH GEOMETRY OF BRACES.

4 CONNECTION DETAIL

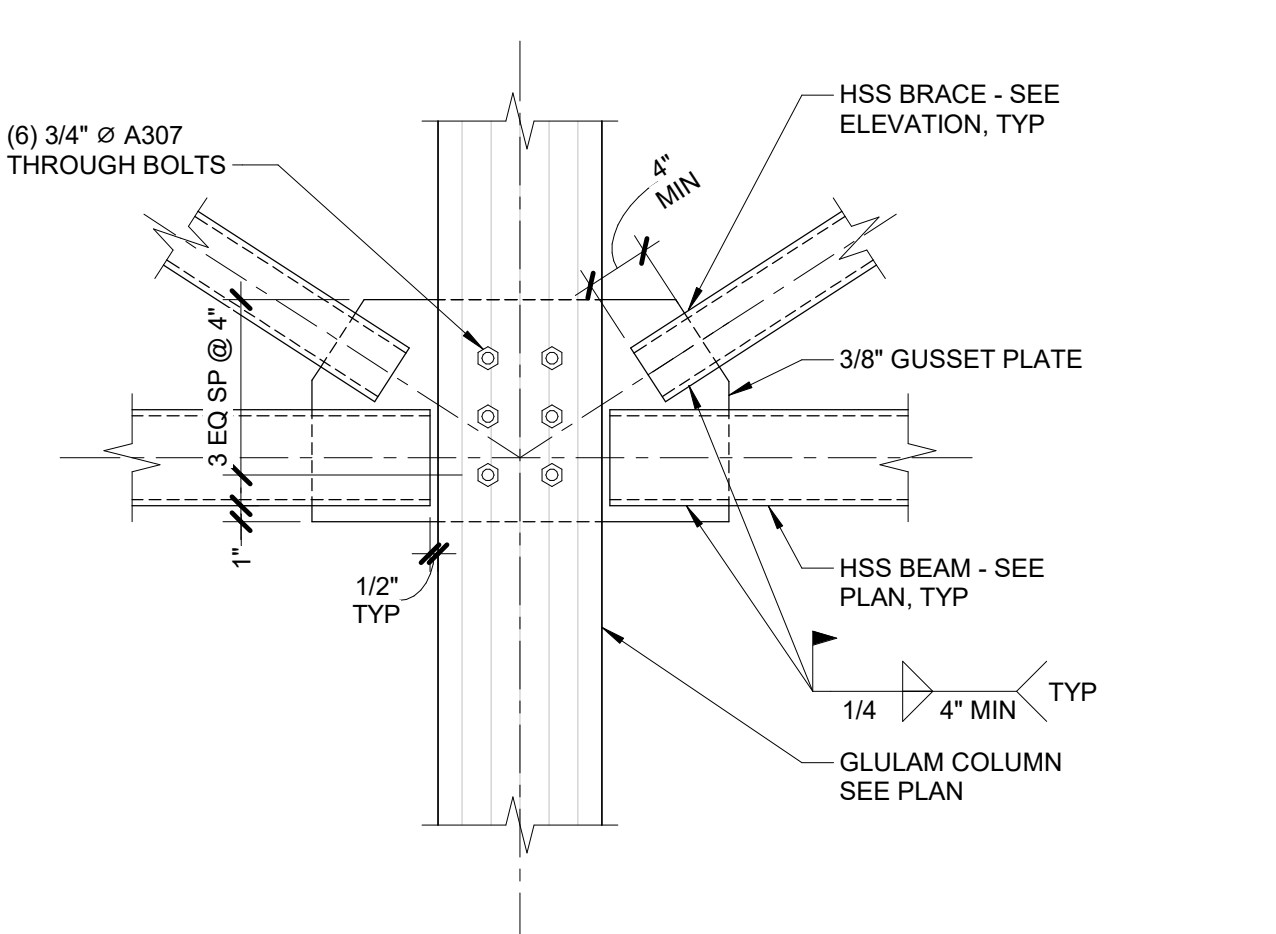
3/4" = 1'-0"



NOTE:
1. BRACE CONNECTION ONLY ONE SIDE AT SIM.

5 CONNECTION DETAIL

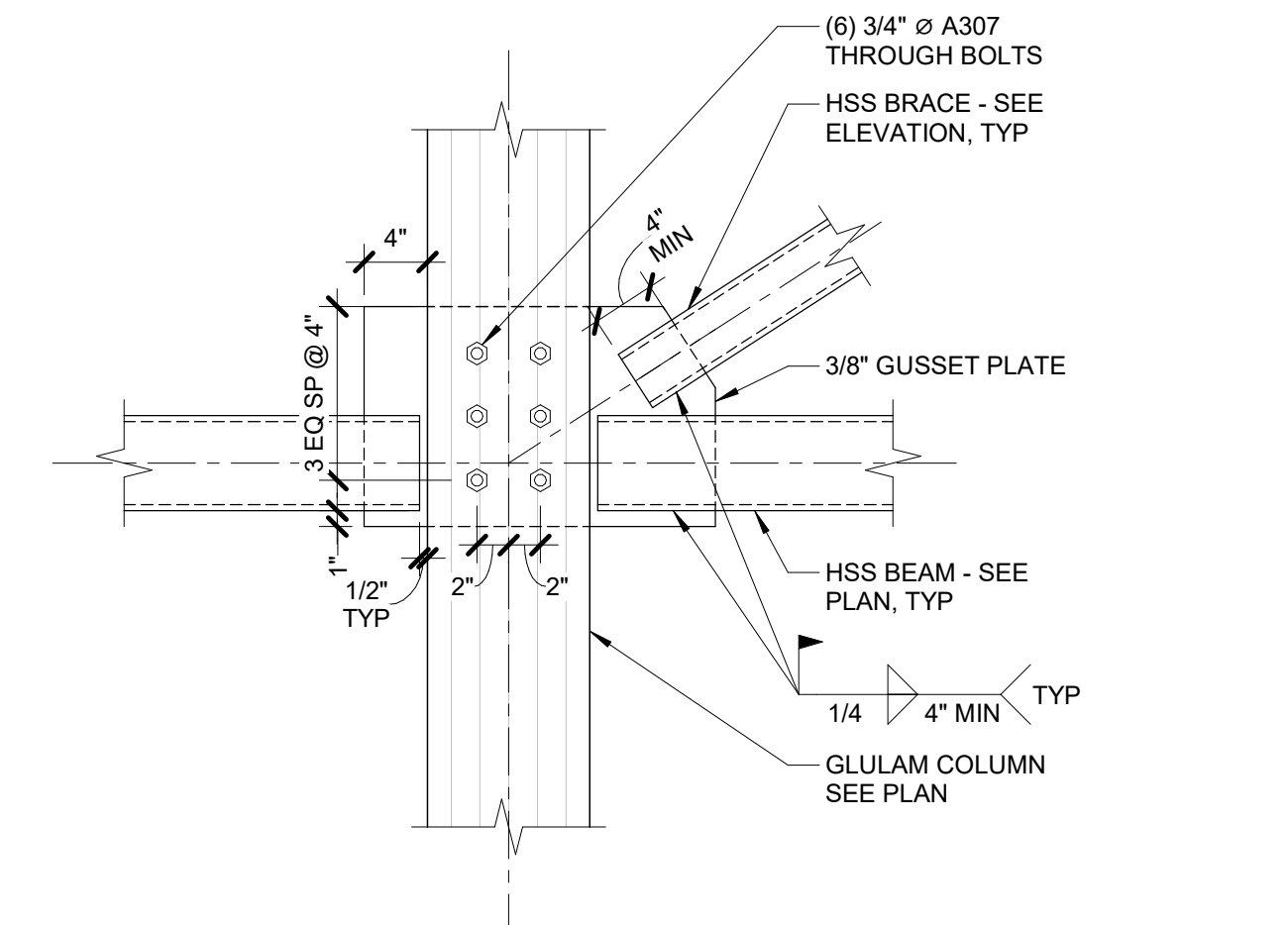
1" = 1'-0"



NOTES:
1. FABRICATOR SHALL OPTIMIZE THE SIZE AND SHAPE OF THE GUSSET PLATE TO WORK WITH GEOMETRY OF BRACES.

6 CONNECTION DETAIL

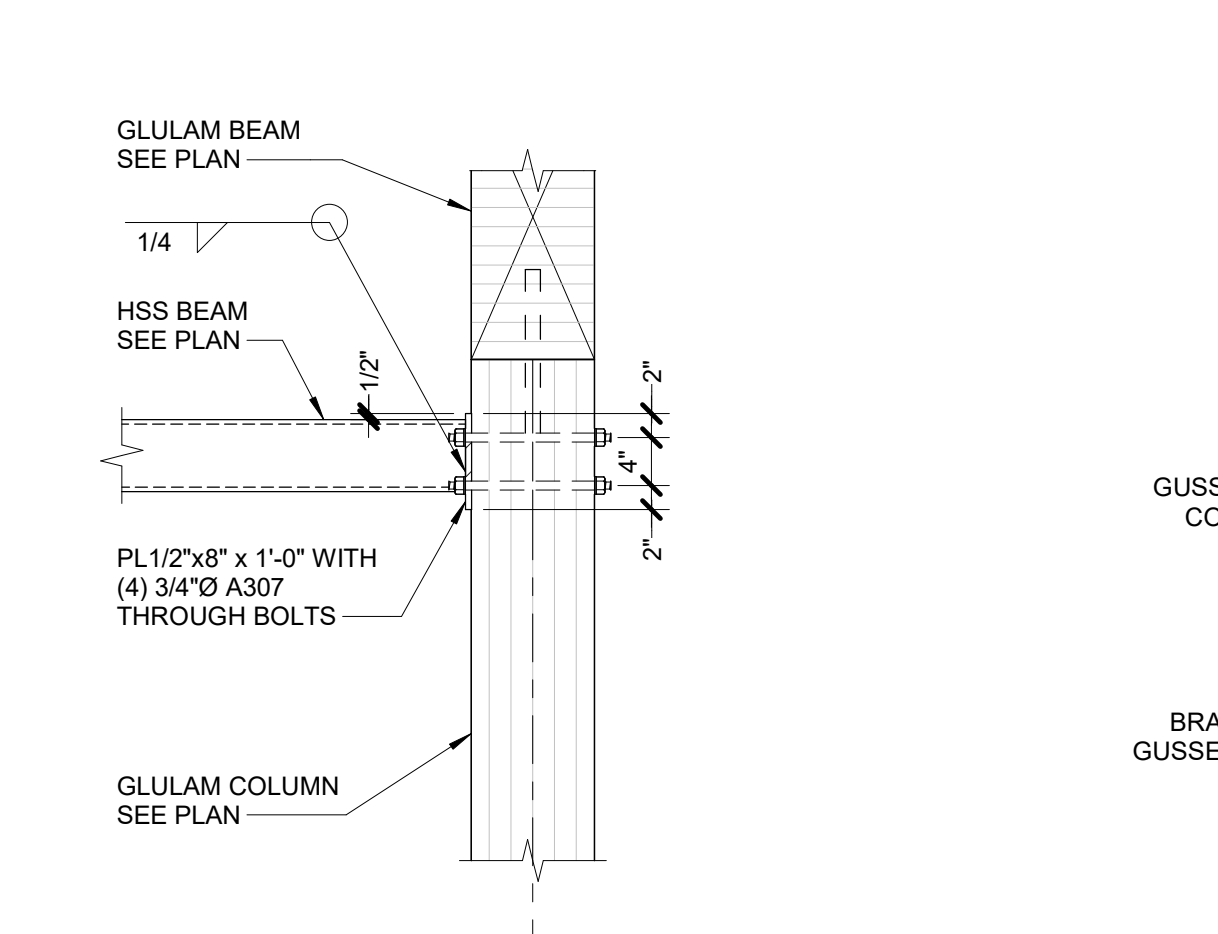
1" = 1'-0"



NOTES:
1. FABRICATOR SHALL OPTIMIZE THE SIZE AND SHAPE OF THE GUSSET PLATE TO WORK WITH GEOMETRY OF BRACES.

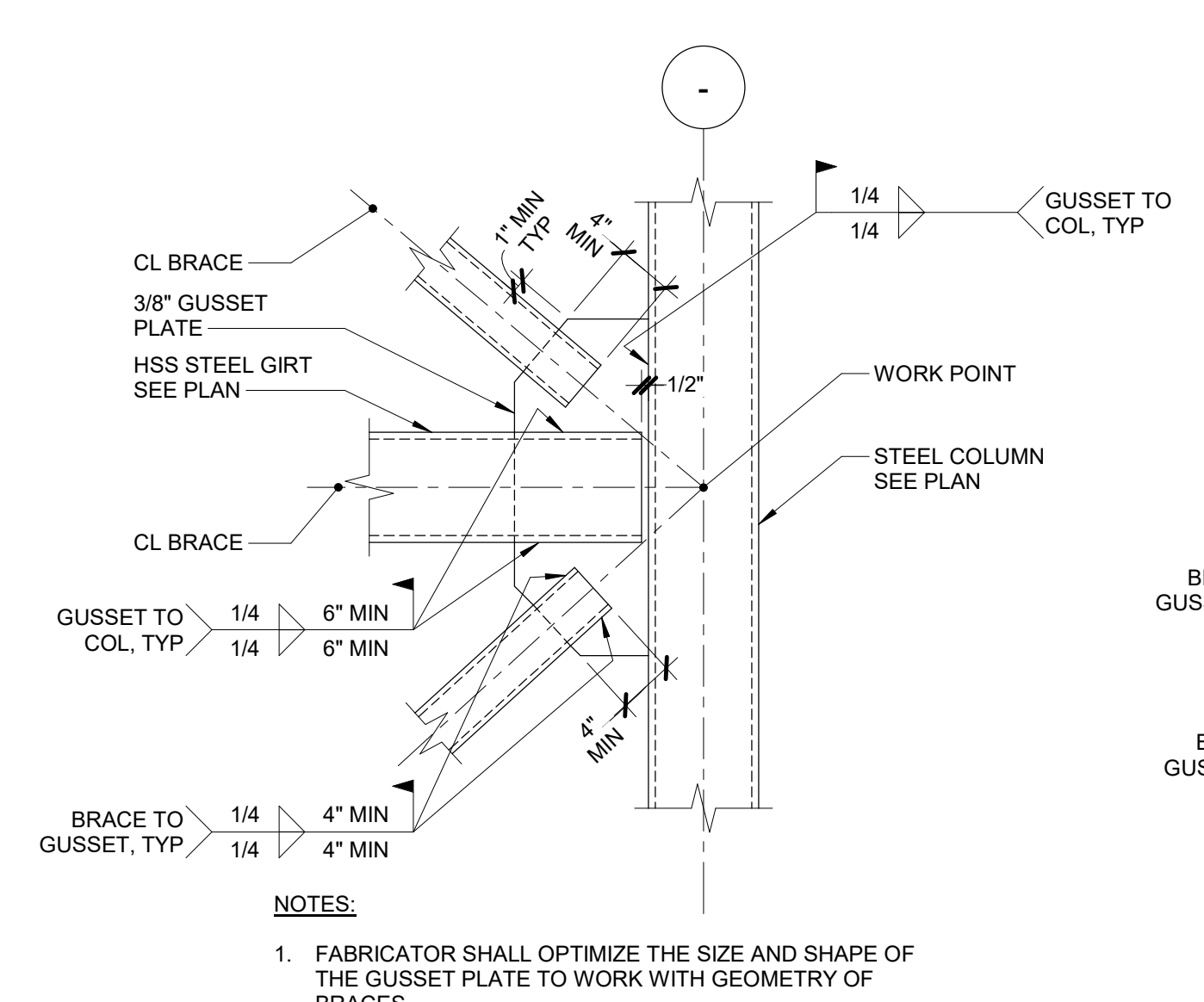
7 CONNECTION DETAIL

1" = 1'-0"



8 CONNECTION DETAIL

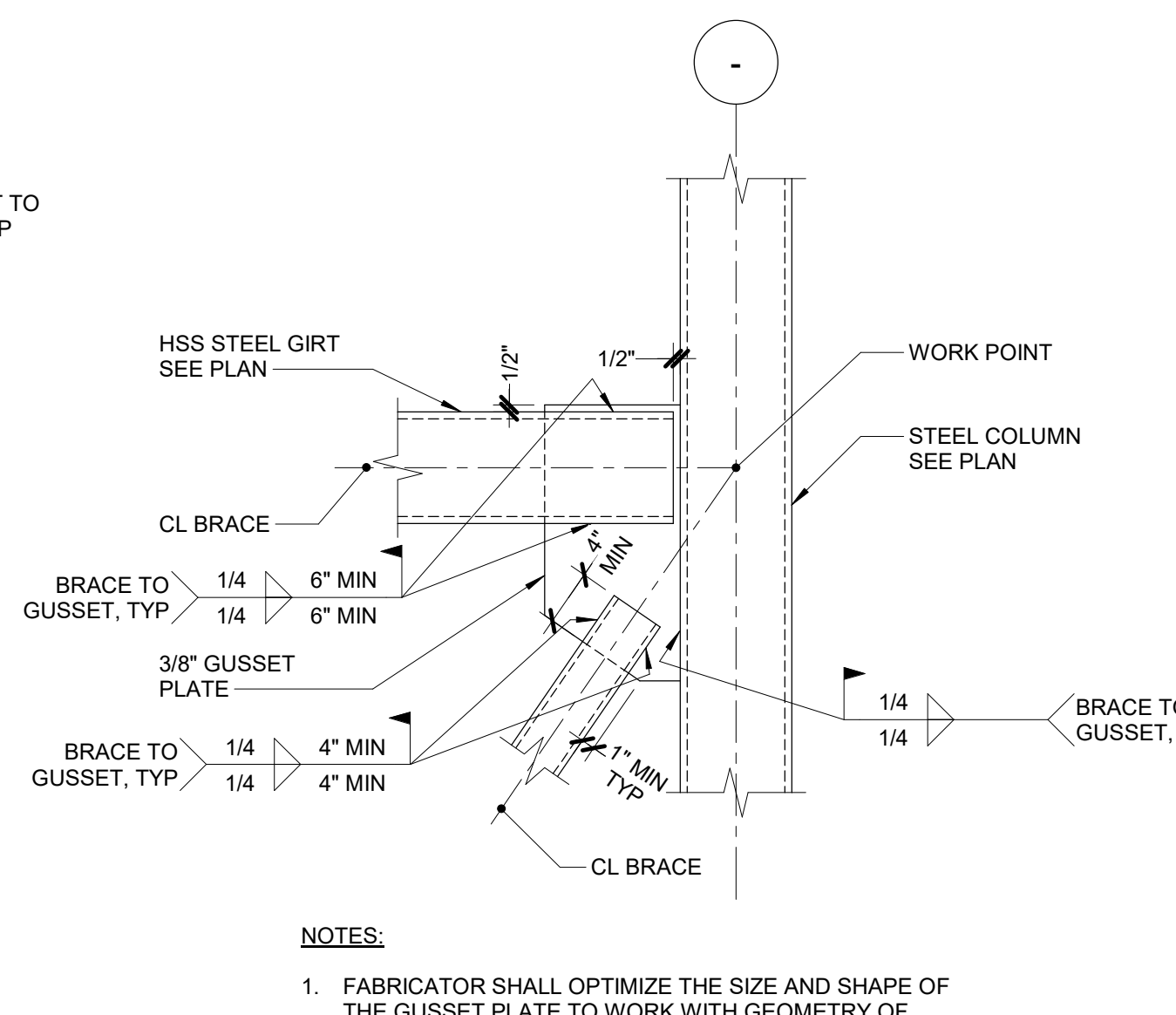
3/4" = 1'-0"



NOTES:
1. FABRICATOR SHALL OPTIMIZE THE SIZE AND SHAPE OF THE GUSSET PLATE TO WORK WITH GEOMETRY OF BRACES.

9 BRACE CONNECTION TO BEAM/COLUMN DETAIL

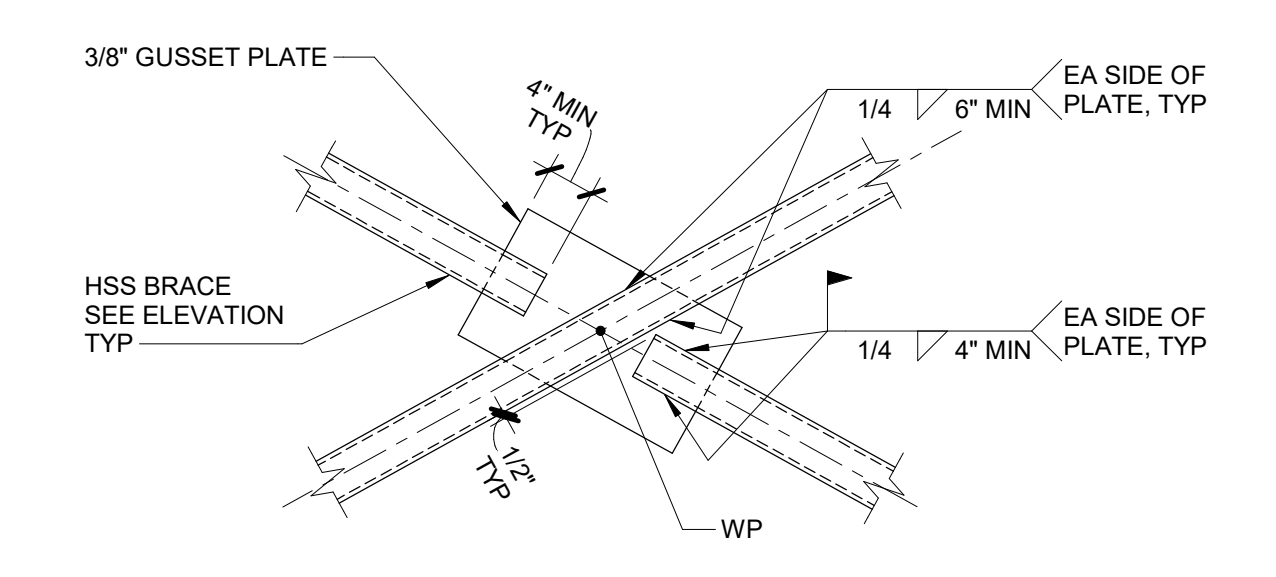
1" = 1'-0"



NOTES:
1. FABRICATOR SHALL OPTIMIZE THE SIZE AND SHAPE OF THE GUSSET PLATE TO WORK WITH GEOMETRY OF BRACES.

10 BRACE CONNECTION TO BEAM/COLUMN DETAIL

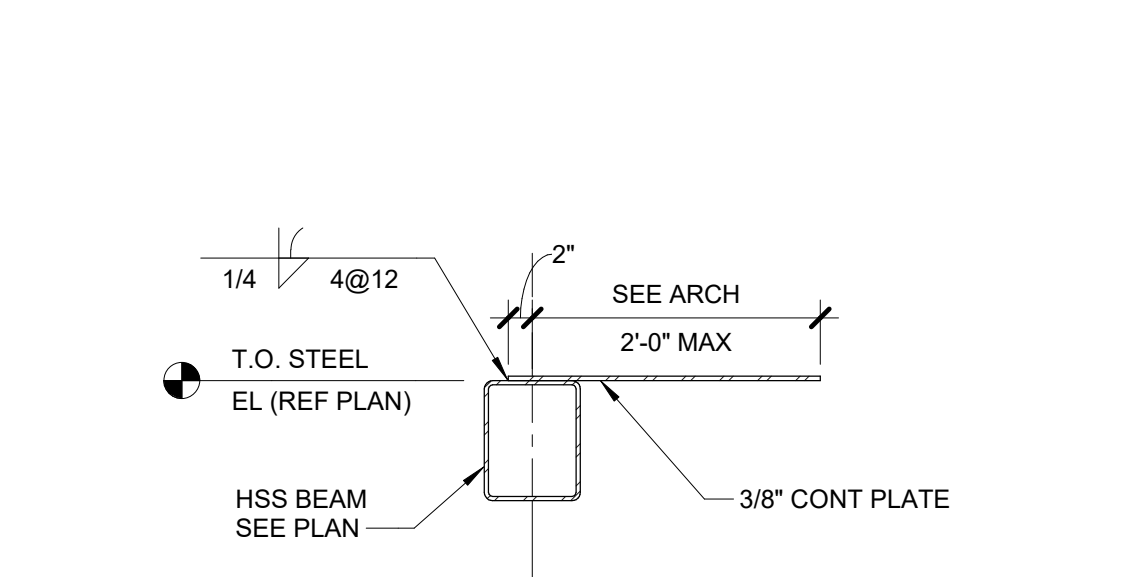
1" = 1'-0"



NOTES:
1. FABRICATOR SHALL OPTIMIZE THE SIZE AND SHAPE OF THE GUSSET PLATE TO WORK WITH GEOMETRY OF BRACES.

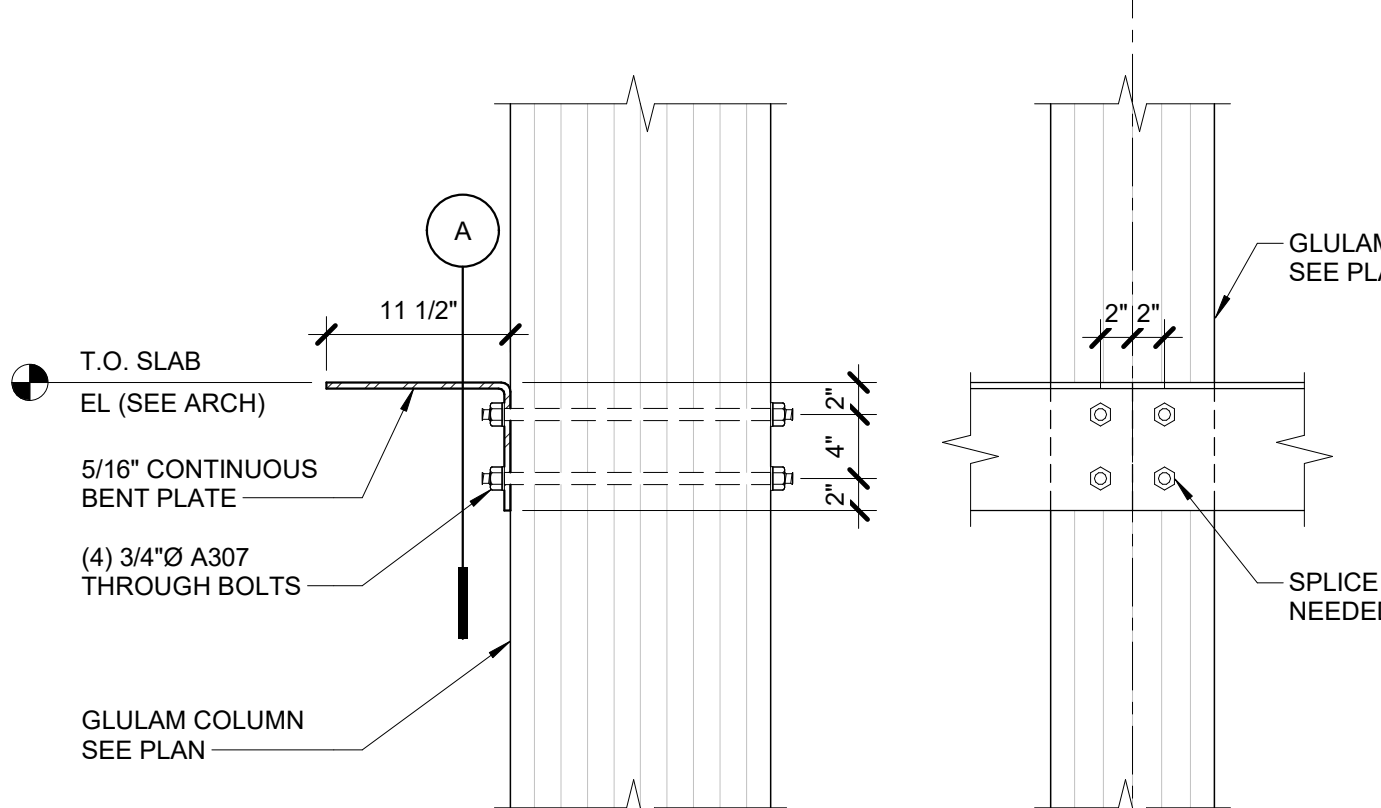
11 HSS BRACE CONNECTION

3/4" = 1'-0"



12 STEEL SUPPORT AT TOP OF FIREWALL

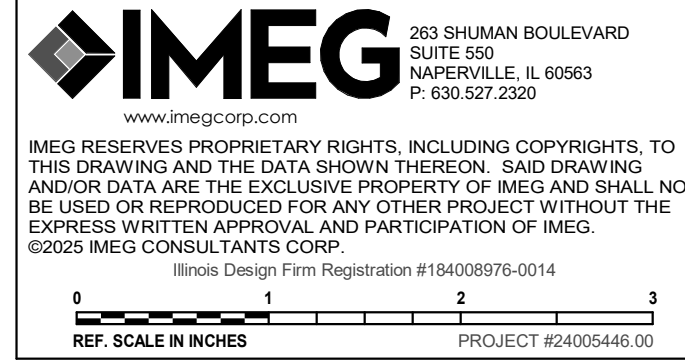
3/4" = 1'-0"



13 BENT PLATE WALL SUPPORT DETAIL

3/4" = 1'-0"

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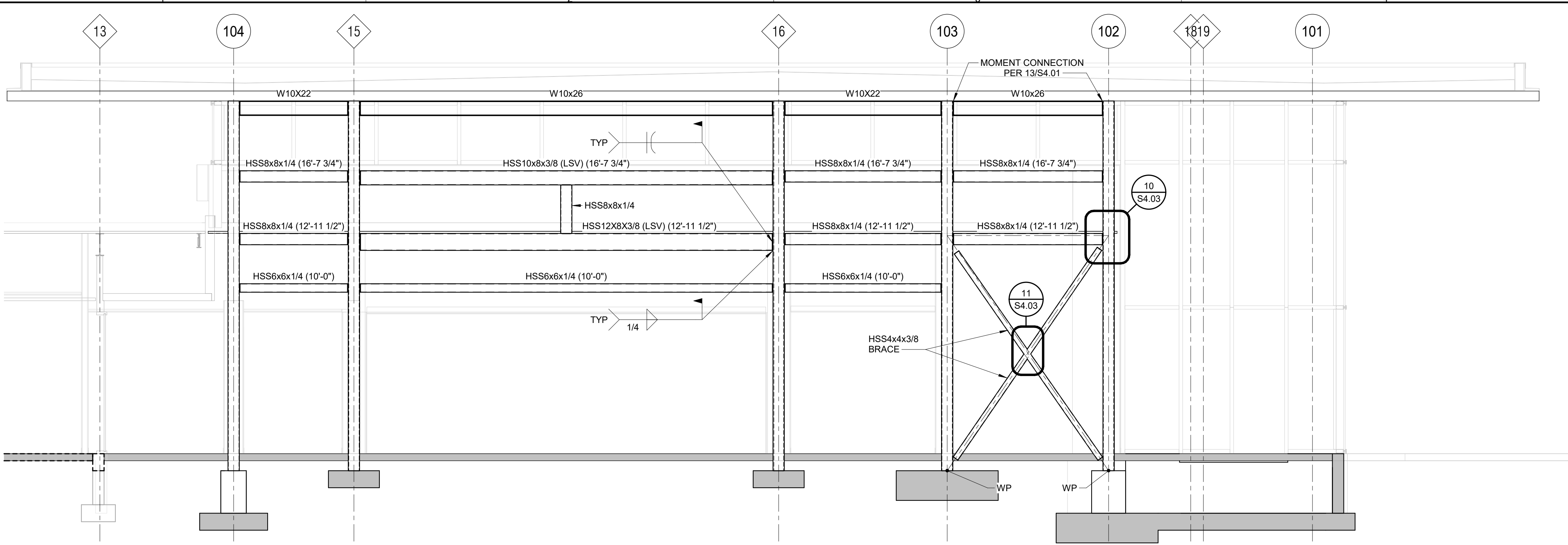
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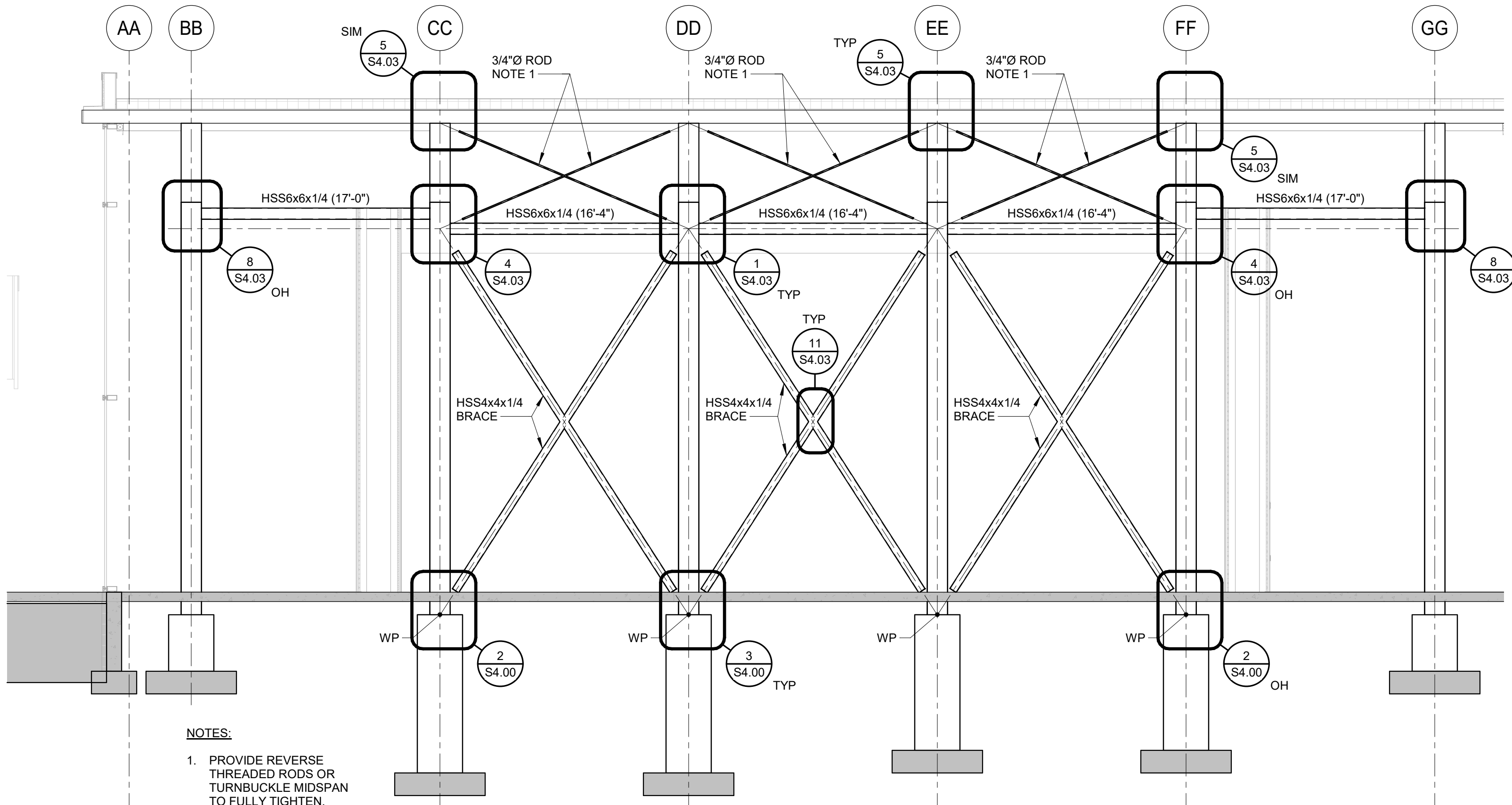
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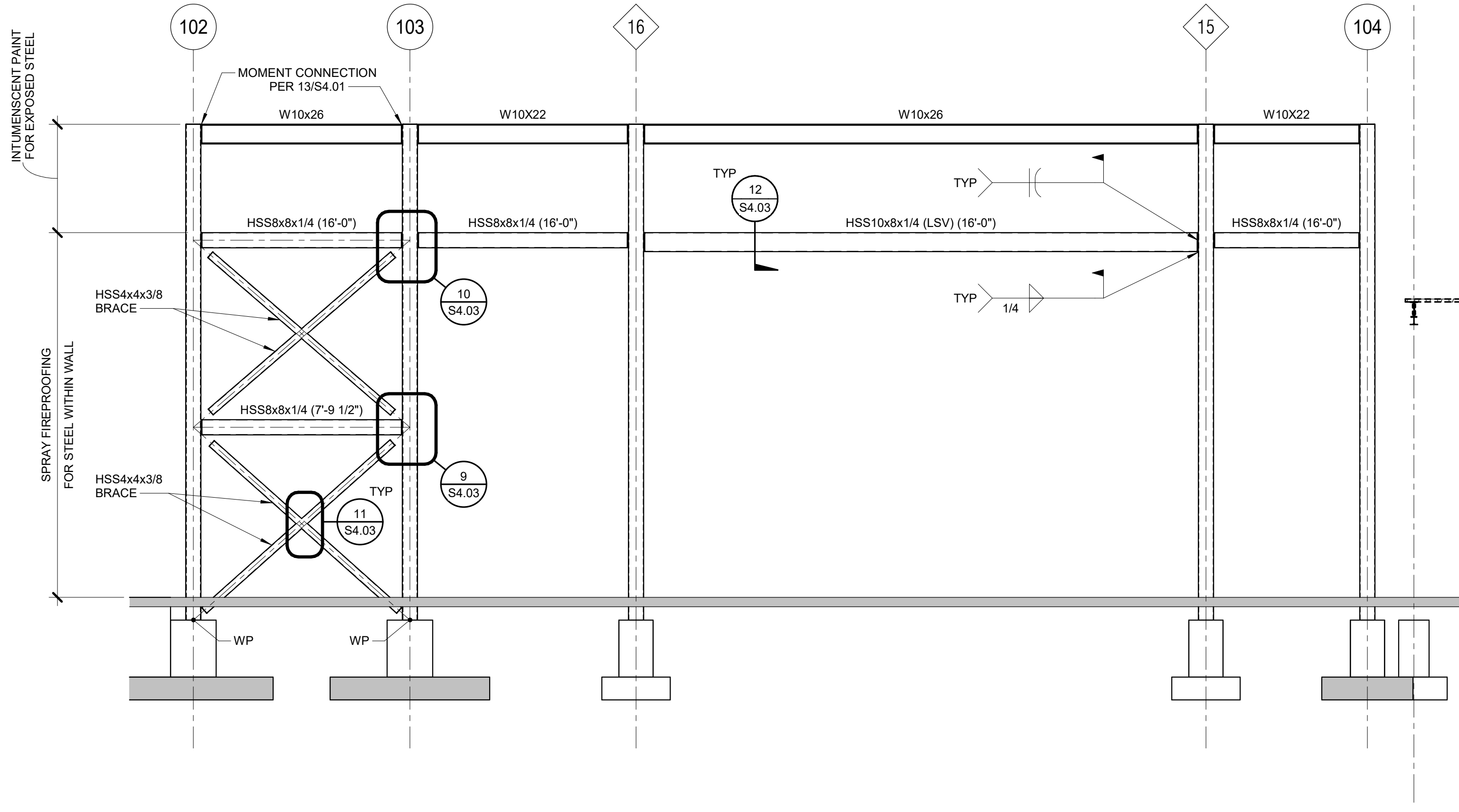
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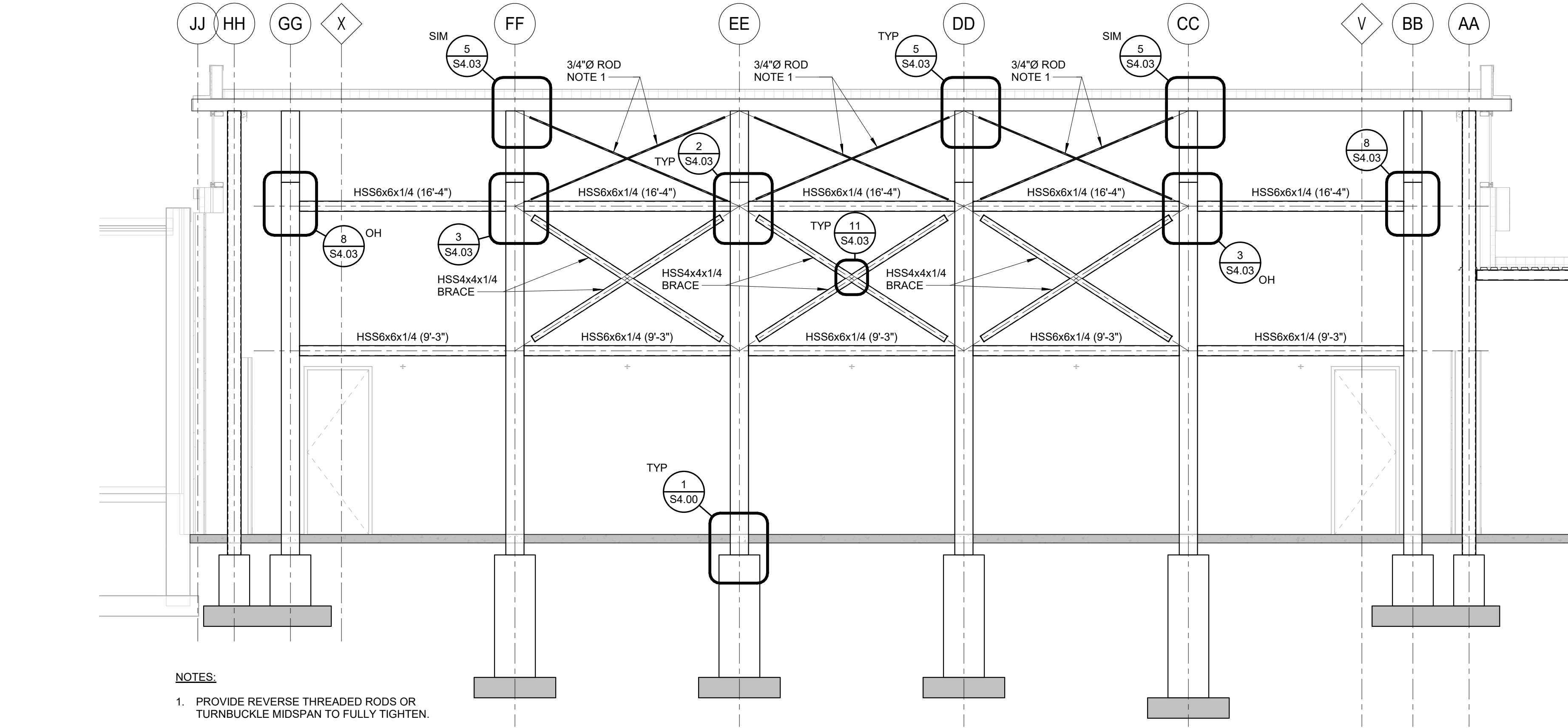
1 WEST WALL ELEVATION
1/4" = 1'-0"



2 NORTH WALL ELEVATION
1/4" = 1'-0"



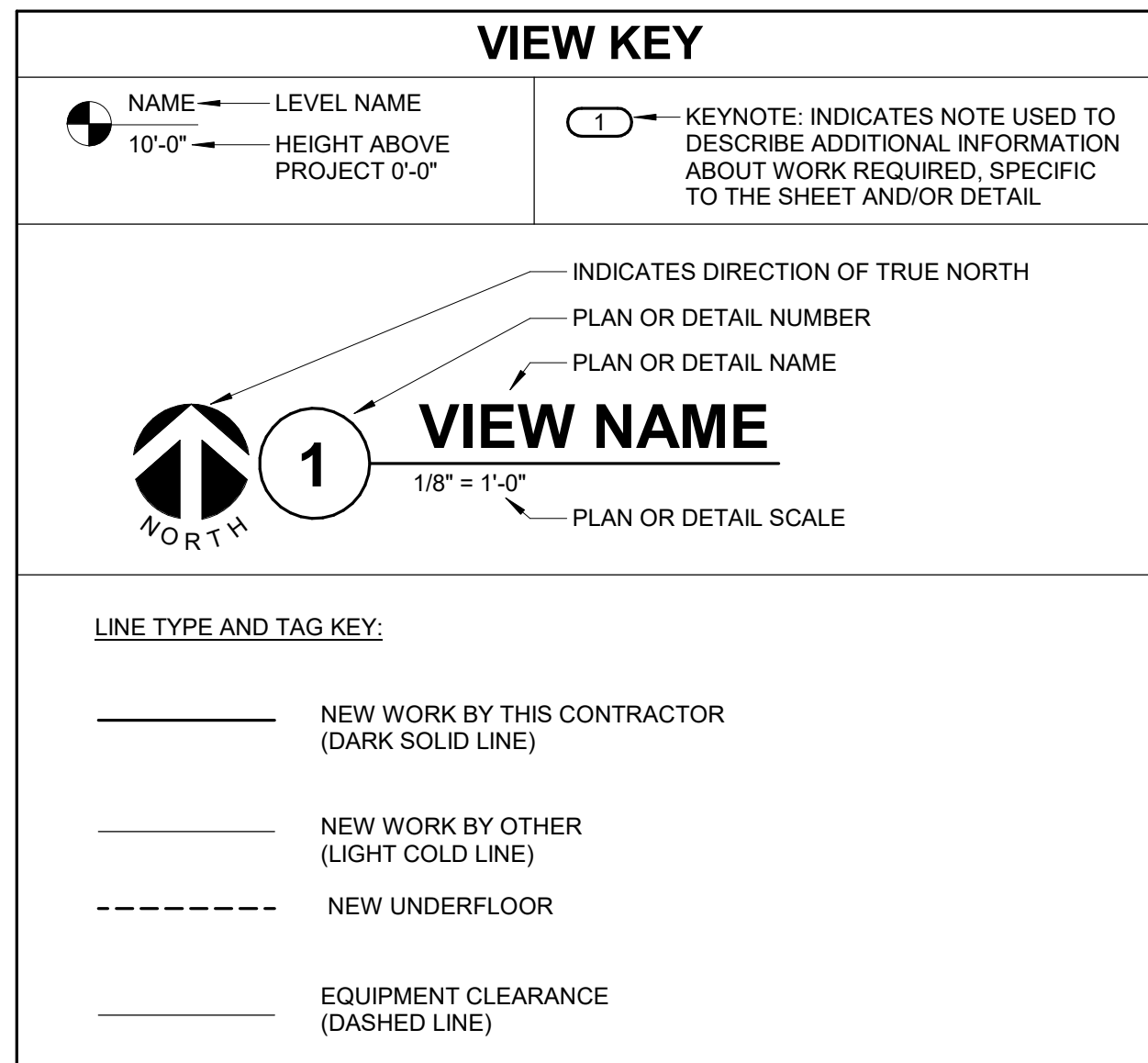
3 EAST WALL ELEVATION
1/4" = 1'-0"



4 SOUTH WALL ELEVATION
1/4" = 1'-0"

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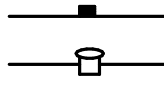
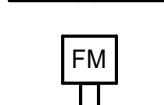
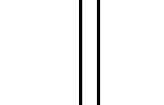

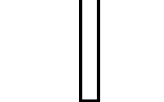
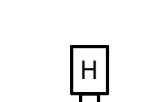
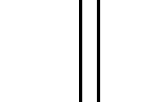
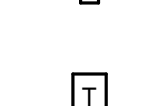
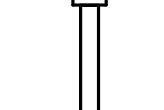
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E.C.	ELECTRICAL CONTRACTOR
M.C.	MECHANICAL CONTRACTOR
T.C.C.	TEMPERATURE CONTROLS CONTRACTOR
A.V.C.	AUDIO VISUAL CONTRACTOR
T.C.	TECHNOLOGY CONTRACTOR

HVAC SYMBOL LIST

NOT ALL SYMBOLS MAY APPLY.

SYMBOL:	DESCRIPTION:
	CWR CHILLED WATER RETURN
	CWS CHILLED WATER SUPPLY
	G NATURAL GAS
	HWR HEATING WATER RETURN
	HWS HEATING WATER SUPPLY
	PIPE CAP
	PIPE DOWN
	PIPE UP OR UP/DOWN
	DIRECTION OF FLOW IN PIPE
	UNION/FLANGE
	CONTROL VALVE (TWO-WAY)
	SHUTOFF VALVE NORMALLY OPEN
	PRESSURE/TEMPERATURE TEST PLUG
	GAS REGULATOR
	PRESSURE/TEMPERATURE TEST PLUG
	FLOW METER (DUCT)
	DUCT SMOKE DETECTOR
	HUMIDITY SENSOR
	TEMPERATURE SENSOR (DUCT)
	ANALOG INPUT
	ANALOG OUTPUT
	DIGITAL INPUT
	DIGITAL OUTPUT
	SAWCUT

HVAC SYMBOL LIST

NOT ALL SYMBOLS MAY APPLY

SYMBOL:	DESCRIPTION:
	FLEXIBLE DUCT
	MANUAL VOLUME DAMPER
	DUCT CAP
	DUCT DOWN
	DUCT UP
	SUPPLY/OUTSIDE AIR DUCT SECTION
	RETURN AIR DUCT SECTION
	EXHAUST/RELIEF AIR DUCT SECTION
SD-1 6/115	AIR TERMINAL PROPERTIES SYMBOL NECK SIZE/CFM
	PRESSURE SENSOR/MONITOR
	THERMOSTAT/SENSOR
	CARBON DIOXIDE SENSOR

HVAC ABBREVIATION KEY

ABBR:	DESCRIPTION:
SA	SUPPLY AIR
SCCR	SHORT CIRCUIT CURRENT RATING
RA	RETURN AIR
TAB	TERMINAL AIR BOX
TD	TRANSFER DUCT
TYP	TYPICAL
FD	FIRE DAMPER

HVAC SHEET INDEX

M0.00	FLOOR COVERSHEET
M01.01	HVAC PLAN DEMOLITION - PIPING
M01.02	ROOF PLAN DEMOLITION - PIPING
M01.11	FLOOR PLAN DEMOLITION - VENTILATION
M1.01	FLOOR PLAN - PIPING
M1.11	FLOOR PLAN - VENTILATION
M1.12	ROOF PLAN - MECHANICAL
M2.00	SECTION VIEWS
M3.00	HVAC DETAILS
M3.01	HVAC DETAILS
M4.00	HVAC DIAGRAMS
M4.01	HVAC DIAGRAMS
M5.00	HVAC SCHEDULES
GRAND TOTAL: 13	

PIPE INSULATION SCHEDULE (HVAC)

GENERAL NOTES:
1. REFER TO THE SPECIFICATIONS FOR TYPE DESCRIPTIONS AND JACKETING REQUIREMENTS.
2. TYPE E IS NOT ALLOWED IN RETURN AIR PLENUMS, UNLESS LISTED AND LABELED AS 25/50 RATED PER ASTM E84/UL723
3. PROVIDE RIGID INSULATION AT HANGERS, EITHER PRE-MANUFACTURED COUPLINGS (REFER TO PIPE HANGER AND SUPPORTS SPECIFICATIONS) OR TYPE C INSULATION. SEE SPEC. FOR MORE DETAILS.
4. DIRECT BURIED PIPING SHALL ONLY USE TYPE C OR TYPE E. REDUCTION IN THICKNESS FOR DIRECT BURIED PIPING IS ALLOWED PER IECC AS APPLICABLE.

SYMBOL	PIPE SYSTEM	INSULATION TYPE	INSULATION THICKNESS PER NOMINAL PIPE OR TUBE SIZE			NOTES
			< 1"	1" TO < 1.5"	1.5" TO < 4"	
23 PIPING - HEATING WATER						
HWR	HEATING WATER RETURN	A (GlsFbr), C (CelGla), E (Plyiso)	1 1/2"	1 1/2"	2"	ALL
HWS	HEATING WATER SUPPLY	A (GlsFbr), C (CelGla), E (Plyiso)	1 1/2"	1 1/2"	2"	ALL

PIPING GENERAL NOTES:

1. THE SIZE OF BRANCH PIPING TO TERMINAL HEATING DEVICES AND COILS SHALL BE 3/4" UNLESS NOTED OTHERWISE.

VENTILATION GENERAL NOTES:

1. UNLESS NOTED OTHERWISE, THE SIZE OF EACH BRANCH DUCT TO A TERMINAL AIR BOX (TAB) SHALL MATCH THE INLET SIZE UNLESS THE BRANCH IS GREATER THAN 6 FEET IN LENGTH, IN WHICH CASE THE BRANCH DUCT SHALL BE SIZED AT A PRESSURE DROP OF 0.07" W.C. PER 100' OF DUCTWORK.
2. UNLESS NOTED OTHERWISE, THE SIZE OF EACH BRANCH DUCT TO AN AIR TERMINAL SHALL MATCH THE INLET SIZE.
3. ALIGN TEMPERATURE SENSORS WITH LIGHT SWITCHES AND WHEN IN CLOSE PROXIMITY TO EACH OTHER.
4. PROVIDE ACCESS DOORS AT ALL DUCT MOUNTED EQUIPMENT.

MECHANICAL GENERAL NOTES:

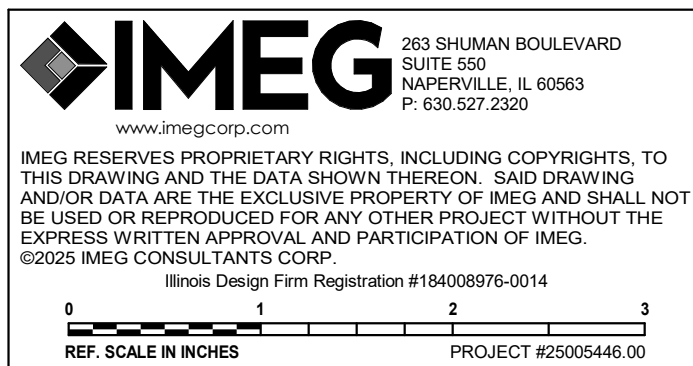
1. DRAWINGS SHOWING LOCATIONS OF EQUIPMENT, DUCTWORK, PIPING, ETC. ARE DIAGRAMMATIC AND MAY NOT ALWAYS REFLECT EXACT INSTALLATION CONDITIONS. CONTRACTOR SHALL FOLLOW THE GENERAL PRINCIPLES OF THE DRAWINGS AND SHALL NOT INCLUDE ALL OFFSETS AND FITTINGS REQUIRED FOR COMPLETE INSTALLATION. THE DRAWINGS SHALL BE FOLLOWED AS CLOSELY AS ACTUAL BUILDING CONDITIONS PERMIT.
2. CATALOG AND MODEL NUMBERS SHALL NOT BE CONSIDERED COMPLETE, BUT GIVEN AS AN AID TO THE CONTRACTOR AND TO INDICATE THE QUALITY REQUIRED. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING THE SPECIFIC MATERIALS, EQUIPMENT, AND DRAWINGS AND IN THE SPECIFICATIONS BEFORE ORDERING. THE DESCRIPTION OF THE MATERIAL AND SCHEDULED PERFORMANCE TAKES PRECEDENCE OVER THE MODEL NUMBER. THE FIRST MATERIAL SUBSTITUTION SHALL BE APPROVED BY THE ARCHITECT.
3. DETERMINATION OF QUANTITIES OF MATERIAL AND EQUIPMENT REQUIRED SHALL BE MADE BY THE CONTRACTOR FROM THE DOCUMENTS. WHERE MATERIAL AND/OR QUANTITY OF MATERIAL IS NOT SPECIFIED, THE CONTRACTOR SHALL FOLLOW THE RULES AND/OR SPECIFICATIONS, THE HIGHER QUALITY GREATER NUMBER SHALL GOVERN.
4. DO NOT SCALE DRAWINGS. VERIFY ALL DIMENSIONS AND CLEARANCES FROM ARCHITECTURAL DRAWINGS, SUBSTITUTES, AND OTHER DOCUMENTS. DIMENSIONS OR PHYSICAL AT SITE. REVIEW ALL DRAWINGS AND SPECIFICATIONS. THOSE OF OTHER TRADES.
5. COORDINATE ALL WORK WITH ALL OTHER TRADES PRIOR TO INSTALLATION TO PROVIDE CLEARANCES REQUIRED FOR OPERATION, MAINTENANCE, CODE COMPLIANCE, AND TO PREVENT INTERFERENCE WITH OTHER TRADES' WORK. OBTAIN AND VERIFY VERIFICATION OF NECESSARY CLEARANCES FOR ALL TRADES, BRING ANY INTERFERENCES OR CONFLICTS TO THE ATTENTION OF THE ARCHITECT/ENGINEER BEFORE PROCEEDING TO INSTALLATION.
6. REVIEW SPACE REQUIREMENTS OF EQUIPMENT SPECIFIED OR SUBSTITUTED AND MAKE REASONABLE ACCOMMODATIONS IN LAYOUT AND POSITIONING TO PROVIDE PROPER ACCESS.
7. ANY CHANGES REQUIRED TO ELIMINATE CONFLICTS OR THAT RESULT FROM A FAILURE TO COORDINATE SHALL BE MADE BY THE CONTRACTOR WITHOUT ADDITIONAL COST OR DELAY TO OTHERS.
8. EACH CONTRACTOR IS RESPONSIBLE FOR DAMAGE CAUSED BY THEIR ACTIONS TO WALLS, FLOORS, CEILINGS, AND ROOFS. THE CONTRACTOR WHOM WORK CAUSES DAMAGE IS RESPONSIBLE FOR PATCHING TO MATCH ORIGINAL CONSTRUCTION, FIRE RATING, AND FINISH.
9. IN AREAS WITH DRYWALL CEILINGS COORDINATE LOCATIONS OF ACCESS PANELS WITH THE ARCHITECT. ACCESS PANELS SHALL BE IDENTICAL TO THE EXISTING ACCESS PANELS IN MATERIAL, PANEL TYPE AND COLOR WITH ARCHITECT. NOTIFY THE GC OF THE REQUIRED ACCESS PANELS PRIOR TO BIDDING.
10. ALL ELECTRICAL AND WALL PENETRATIONS AROUND WHERE CONDUITS, PIPING, AND DUCTS PENETRATE.
11. CALCUL ALKAL PIPE AND DUCT PENETRATIONS OF FULL HEIGHT NON-FIRE RATED WALL, FLOOR, CEILING, AND ROOF. PENETRATIONS SHALL BE DESIGNED TO PREVENT FIRE TRANSMISSION FROM ONE ROOM TO ANOTHER AND TO PROVIDE THE REQUIRED NC LEVELS WITHIN ROOMS.
12. DO NOT BLOCK TUBE PULL OR EQUIPMENT SERVICE CLEARANCES.
13. MAINTAIN A MINIMUM WORKING CLEARANCE OF 3'-6" IN FRONT OF ALL ELECTRICAL EQUIPMENT REQUIRING MAINTENANCE, INSPECTION, AND TESTING INCLUDING BUT NOT LIMITED TO PANELS, DISCONNECTS, TRANSFORMERS, MOTOR CONTROL CENTERS, TRANSFORMERS, EQUIPMENT DISCONNECTS AND STARTERS.
14. MAINTAIN THE DEDICATED ELECTRICAL EQUIPMENT SPACE DEFINED BY THE WIDTH / DEPTH OF THE EQUIPMENT AND THE MINIMUM CLEARANCE TO THE EQUIPMENT. MAINTAIN EQUIPMENT OR THE STRUCTURAL CEILING, WHICHEVER IS LOWER. SYSTEMS FOREIGN TO THE ELECTRICAL DISTRIBUTION SYSTEM ARE NOT ALLOWED IN THE DEDICATED EQUIPMENT SPACE INCLUDING BUT NOT LIMITED TO:
15. DO NOT EXCEED 25 LBS PER HANGER AND A MINIMUM SPACING OF 2'-0" ON CENTER WHEN ATTACHING TO METAL ROOF DECKING (LIMITATION NOT REQUIRED WITH CONCRETE ON ROOF). THIS LIMITATION DOES NOT APPLY TO ATTACHMENTS TO WALLS AND ARCHITECTURAL ITEMS HANGING FROM DECK. IF THE HANGER RESTRICTIONS CANNOT BE ACHIEVED, SUPPLEMENTAL FRAMING OFF STEEL FRAMING SHALL BE ADDED. ANCHORS AND BRACKETS FOR CONCRETE SHALL BE CRACKED CONCRETE APPROVED IN ACCORDANCE WITH SPECIFICATIONS.

TAB PRE-DEMOLITION NOTES:

1. BEFORE ANY DEMOLITION WORK IS BEGUN A COMPLETE AIR BALANCE TEST SHALL BE PERFORMED BY THE TESTING, ADJUSTING AND BALANCING (TAB) CONTRACTOR ON ALL EXISTING AIRFLOW SYSTEMS. THE TAB CONTRACTOR SHALL IDENTIFY ALL AIRFLOW SYSTEMS TO BE DEMOLISHED AND THE DEMOLITION EQUIPMENT TO BE DEMOLISHED DOES NOT REQUIRE TESTING, PROVIDE AIR BALANCE TESTING ONLY ON EQUIPMENT THAT WILL CONTINUE TO BE USED TO SERVE RENOVATED AREAS. THE TAB CONTRACTOR SHALL IDENTIFY THE DEMOLITION EQUIPMENT TO BE DEMOLISHED.
2. PROVIDE DUCT TRAVEL READINGS AT LOCATIONS DESIGNATED ON THE DRAWINGS BY THE "AIRFLOW MEASUREMENT SYMBOL": THOSE MEASUREMENTS SHALL BE INCLUDED IN THE TAB CONTRACTOR'S PRE-DEMOLITION TAB REPORT. THOSE MEASUREMENTS NOT MARKED ON THE DRAWINGS: READINGS SHALL BE DESIGNATED WITH THE ROOM NAME AND NUMBER, TAB CONTRACTOR SHALL INCLUDE ROOM NAME AND NUMBER, AND ROOM NAMES AND NUMBERS. TAB CONTRACTOR SHALL INCLUDE FLOOR PLAN WITH UNIQUE NUMBER DESIGNATIONS ASSIGNED TO READINGS THAT MATCH THOSE USED IN THE FINAL AIRFLOW MEASUREMENT REPORT. THE TAB CONTRACTOR SHALL MARK HAND-MADE WITH RED INK ARE ACCEPTABLE, PROVIDED THEY ARE LEGIBLE.
3. IN THE EVENT A DUCT TRAVEL LOCATION AS MARKED ON THIS PLAN IS INACCESSIBLE OR THE ROOM IS NOT OCCUPIED, THE TAB CONTRACTOR SHALL IDENTIFY AN ALTERNATE LOCATION OR SHALL TAKE MULTIPLE DUCT TRAVEL READINGS AND/OR READINGS AS REQUIRED TO DETERMINE THE AIRFLOW READING WHERE THE DUCT TRAVEL SYMBO IS LOCATED. THE TAB CONTRACTOR SHALL INCLUDE A DRAWING THAT SHOWS THE LOCATIONS WHERE THE ACTUAL MEASUREMENTS WERE TAKEN.
4. THE TAB CONTRACTOR SHALL IDENTIFY EACH LOCATION WHERE A DUCT TRAVEL READING IS TAKEN AND INCLUDE IN THE FINAL PRE-DEMOLITION TAB REPORT. THE TAB CONTRACTOR SHALL INCLUDE A DRAWING THAT SHOWS THE LOCATIONS WHERE THE DEMOLITION REPORT WITHIN 10 WORKING DAYS AFTER THE FIELD MEASUREMENTS ARE COMPLETED. FINAL TAB REPORT SHALL BE SUBMITTED FOR REVIEW TO THE ARCHITECT/ENGINEER. TESTING SHALL INCLUDE ALL ITEMS REQUIRED IN THE SPECIFICATIONS.
5. TAB CONTRACTOR SHALL PROVIDE DUCT TRAVEL READINGS AT LOCATIONS DESIGNATED ON THE DRAWINGS BY THE "AIRFLOW MEASUREMENT SYMBOL": THOSE MEASUREMENTS SHALL BE INCLUDED IN THE POST-CONSTRUCTION REPORT AND SHALL BE DESIGNATED WITH THE IDENTIFIER AS MARKED ON THE CONSTRUCTION DRAWINGS. GRILLE OR REGISTER READINGS SHALL BE TAKEN AT THE SAME LOCATION AS THE DUCT TRAVEL AS MARKED ON THE DRAWINGS. IF THE DRAWINGS DO NOT HAVE UNIQUE ROOM NAMES AND NUMBERS, TAB CONTRACTOR SHALL INCLUDE FLOOR PLANS WITH UNIQUE NUMBER DESIGNATIONS ASSIGNED TO READINGS THAT MATCH THOSE USED IN THE FINAL PRE-DEMOLITION REPORT. SIMILAR ROOM NAMES, NUMBERS, OR DESIGNATIONS SHALL BE USED TO SIMPLIFY THE COMPARISON OF READINGS TAKEN BETWEEN PRE-DEMOLITION AND POST-CONSTRUCTION. THE TAB CONTRACTOR SHALL BALANCING CONTRACTOR SHALL PRE-BALANCE ALL EXISTING SYSTEMS TO REMAIN PER THE DESIGN. EACH SECTION OF THE EXISTING AIRFLOW SYSTEM SHALL BE IDENTIFIED AND DUCT TRAVELS TO VERIFY EXISTING AIRFLOW TO UNEXPECTED SPACES.

TAB POST-CONSTRUCTION NOTES:

1. AFTER CONSTRUCTION ACTIVITIES ARE COMPLETE, TESTING, ADJUSTING (TAB) AND BALANCING CONTRACTOR SHALL REBALANCE TERMINAL AIR BOXES AS REQUIRED TO MAINTAIN MINIMUM AIR FLOW RATES.
2. AREAS SERVED BY THIS EQUIPMENT WHICH WERE NOT RENOVATED SHALL BE RE-TESTED TO VERIFY THE TAB RESULTS BEFORE THE RENOVATION OCCURS (REFER TO THE FINAL PRE-DEMOLITION REPORT).
3. IF DUCT TRAVERSE LOCATION AS MARKED ON THE DRAWINGS IS INACCESSIBLE FOR ANY REASON, THE CONTRACTOR SHALL IDENTIFY AN ALTERNATE LOCATION OR SHALL TAKE MULTIPLE DUCT TRAVERSES AND/OR GRIFF READINGS AS REQUIRED TO DETERMINE THE FLOW RATE. IN THE EVENT TRAVERSES ARE TAKEN AT AN ALTERNATE LOCATION, THE CONTRACTOR SHALL IDENTIFY THE LOCATION AND THE LOCATIONS WHERE THE ACTUAL MEASUREMENTS WERE TAKEN.
4. THE CONTRACTOR SHALL IDENTIFY THE DUCT LOCATION WHERE A DUCT TRAVERSE READING IS TAKEN AND SHALL BE INCLUDED IN THE FINAL POST-CONSTRUCTION TAB REPORT.
5. TAB CONTRACTOR SHALL COMPLETE AND SUBMIT COPIES OF THE FINAL POST-CONSTRUCTION TAB REPORT AS REQUIRED BY SECTION 23.05.93.
6. THE FINAL POST-CONSTRUCTION REPORT SHALL INCLUDE ALL ITEMS REQUIRED BY THE SPECIFICATIONS.



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DKA PROJECT NO: 24-027

KEY PLANS

SHEET STATUS: 05/16/2025

**ISSUED FOR BID - NOT
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[illegible]

SHEET TITLE:

HVAC COVERSHEET

SHEET NUMBER:

M0.00

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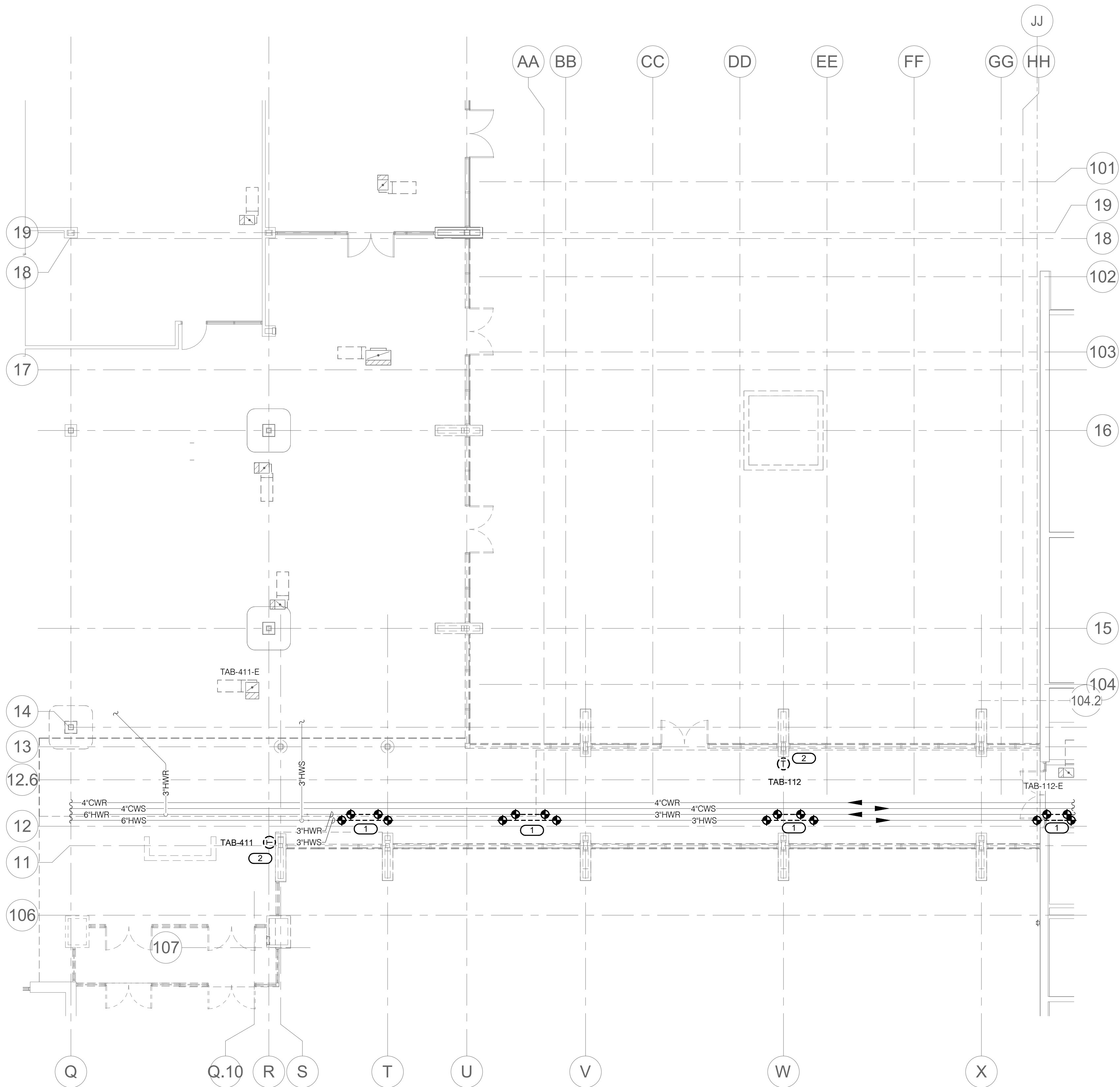
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KEYNOTES:

1. DISCONNECT AND REMOVE SECTION OF HWR/HWS PIPING AS REQUIRED TO INSTALL NEW BRANCH PIPING. COORDINATE ISOLATION AND DRAINING OF HEATING WATER SYSTEM WITH OWNER. (TYP.)
2. DISCONNECT AND REMOVE EXISTING THERMOSTAT EXTEND WIRING TO NEW LOCATION. REFER TO NEW WORK FOR ADDITIONAL INFORMATION.



1

FLOOR PLAN DEMOLITION - PIPING

1/8" = 1'-0"



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**FLOOR PLAN
DEMOLITION - PIPING**

SHEET NUMBER:

MD1.01

5/16/2025 11:12:39 AM



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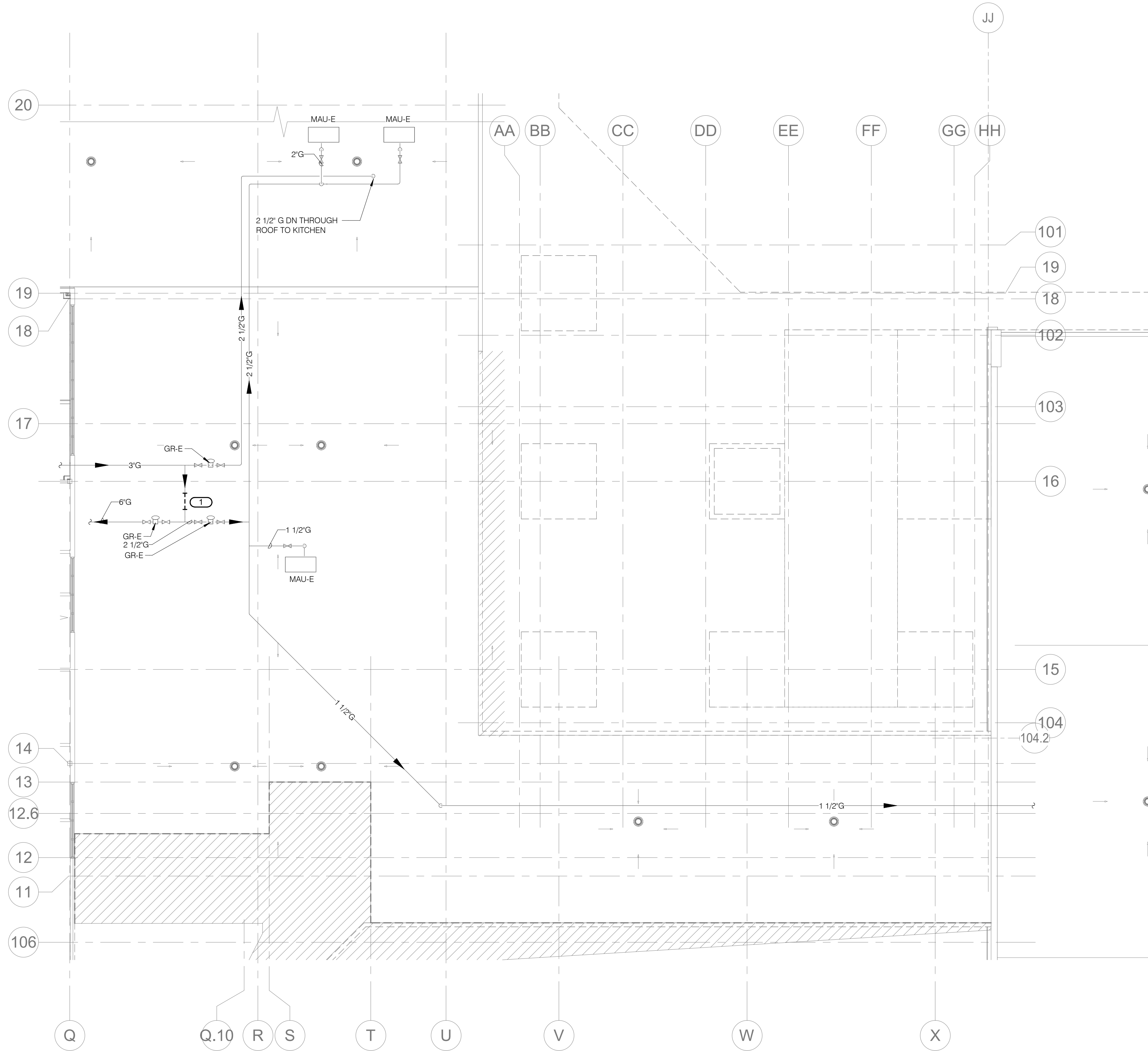
SHEET TITLE:
**ROOF PLAN
DEMOLITION - PIPING**

SHEET NUMBER:

MD1.02

5/16/2025 11:12:39 AM

KEYNOTES:
1. DISCONNECT AND REMOVE SECTION OF GAS
PIPING AS REQUIRED FOR NEW BRANCH
CONNECTION.



1 ROOF PLAN DEMOLITION - PIPING
1/8" = 1'-0"

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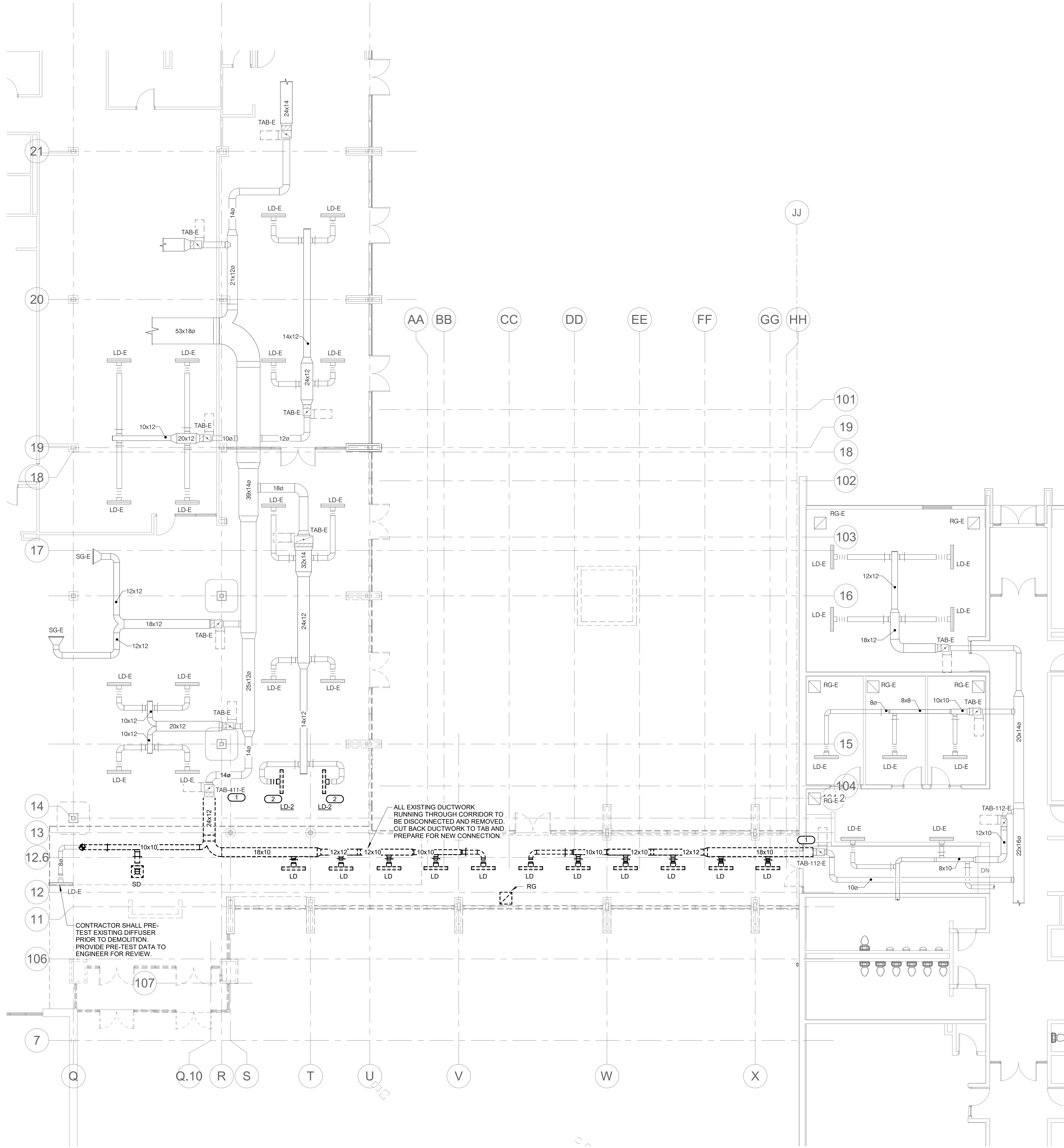
SHEET TITLE:
**FLOOR PLAN
DEMOLITION -
VENTILATION**

SHEET NUMBER:

MD1.11

5/16/2025 11:12:41 AM

- KEYNOTES:**
1. PROVIDE PRETEST AND BALANCE ON TERMINAL AIR BOX AND ALL DIFFUSERS DOWNSTREAM PRIOR TO DEMOLITION. PROVIDE VALUES TO ENGINEER.
 2. DISCONNECT AND REMOVE EXISTING DIFFUSER AND ASSOCIATED FLEXIBLE DUCTWORK. EXISTING BRANCH DUCT TO BE DEMOLISHED AS REQUIRED TO EXTEND TO NEW DIFFUSER IN RAISED CEILING.





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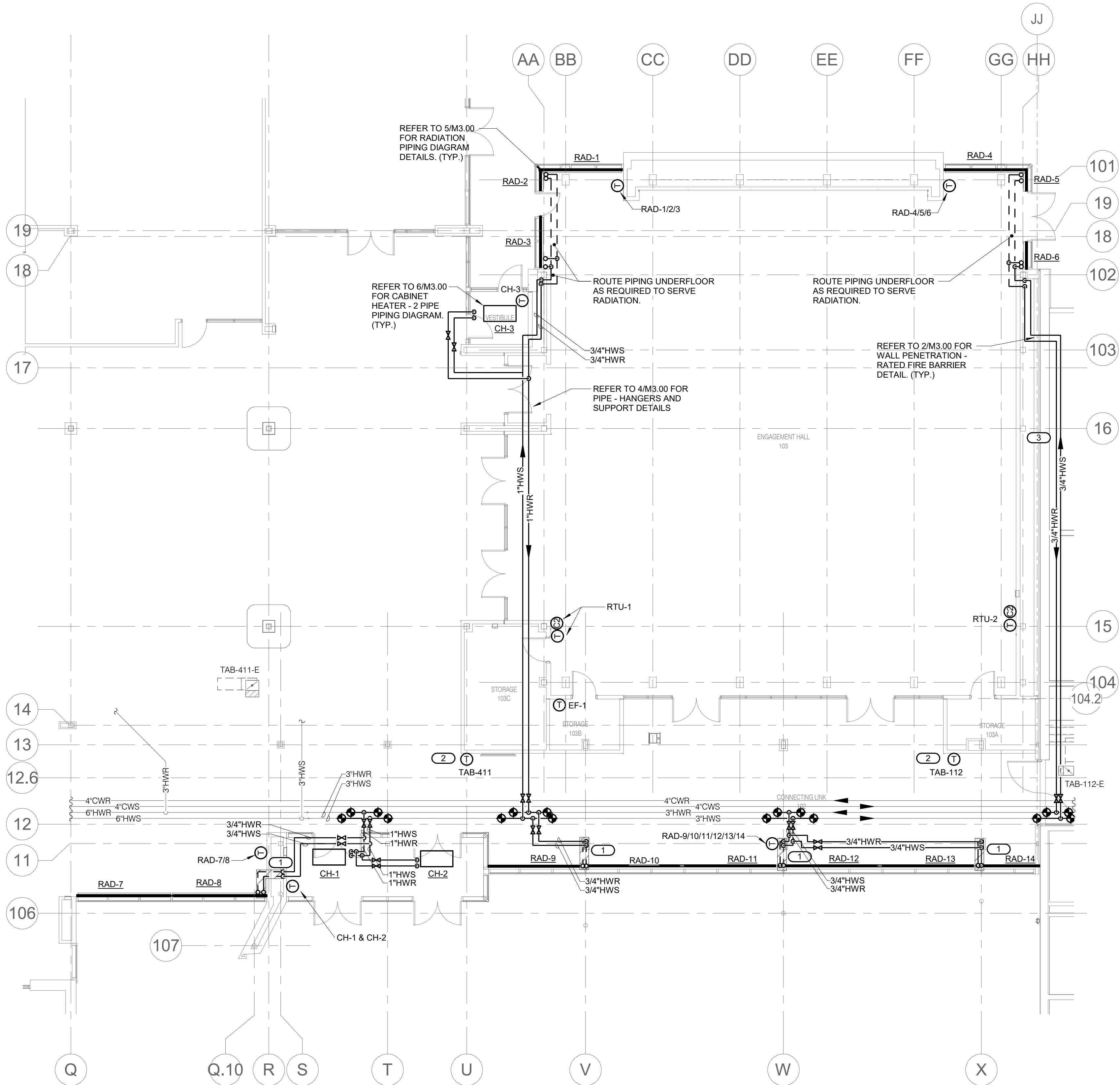
SHEET TITLE:
FLOOR PLAN - PIPING

SHEET NUMBER:

M1.01

5/16/2025 11:12:42 AM

- KEYNOTES:**
1. DROP PIPING IN CHASE AND ROUTE UNDERFLOOR TO SERVE PEDESTAL MOUNTED RADIATION ON EACH SIDE. RADIATION TO BE CONTINUOUS ALONG WALL. PROVIDE CONNECTORS/END CAPS AS REQUIRED. (TYP.)
 2. PROVIDE NEW THERMOSTAT FOR TAB. PROVIDE NEW CONTROLS WIRING AS REQUIRED FOR NEW THERMOSTAT LOCATION
 3. COORDINATE PIPING INSTALLATION WITH EXISTING CEILING CONTRACTOR TO REMOVE AND REPLACE CEILING TILES AS REQUIRED TO INSTALL PIPING.



1 FLOOR PLAN - PIPING
1/8" = 1'-0"

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DKA PROJECT NO: 24-027

KEY PLAN:

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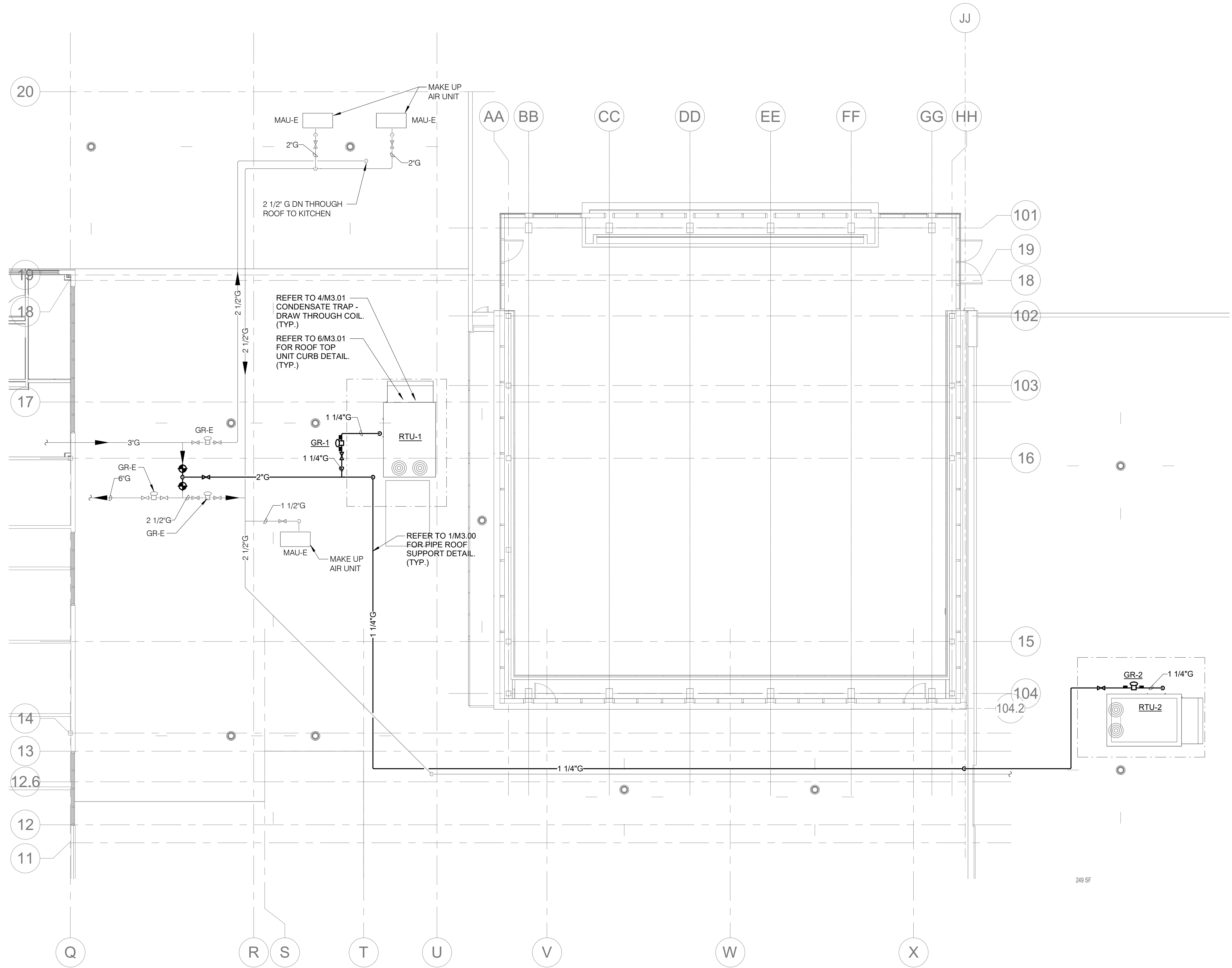
NO.	DESCRIPTION:	DATE:

SHEET TITLE:
**ROOF PLAN -
MECHANICAL**

SHEET NUMBER:

M1.12

5/16/2025 11:12:44 AM



1 ROOF PLAN - PIPING
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DKA PROJECT NO: 24-027

KEY PLAN:

SHEET STATUS: 05/16/2025
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NO.	DESCRIPTION:	DATE:

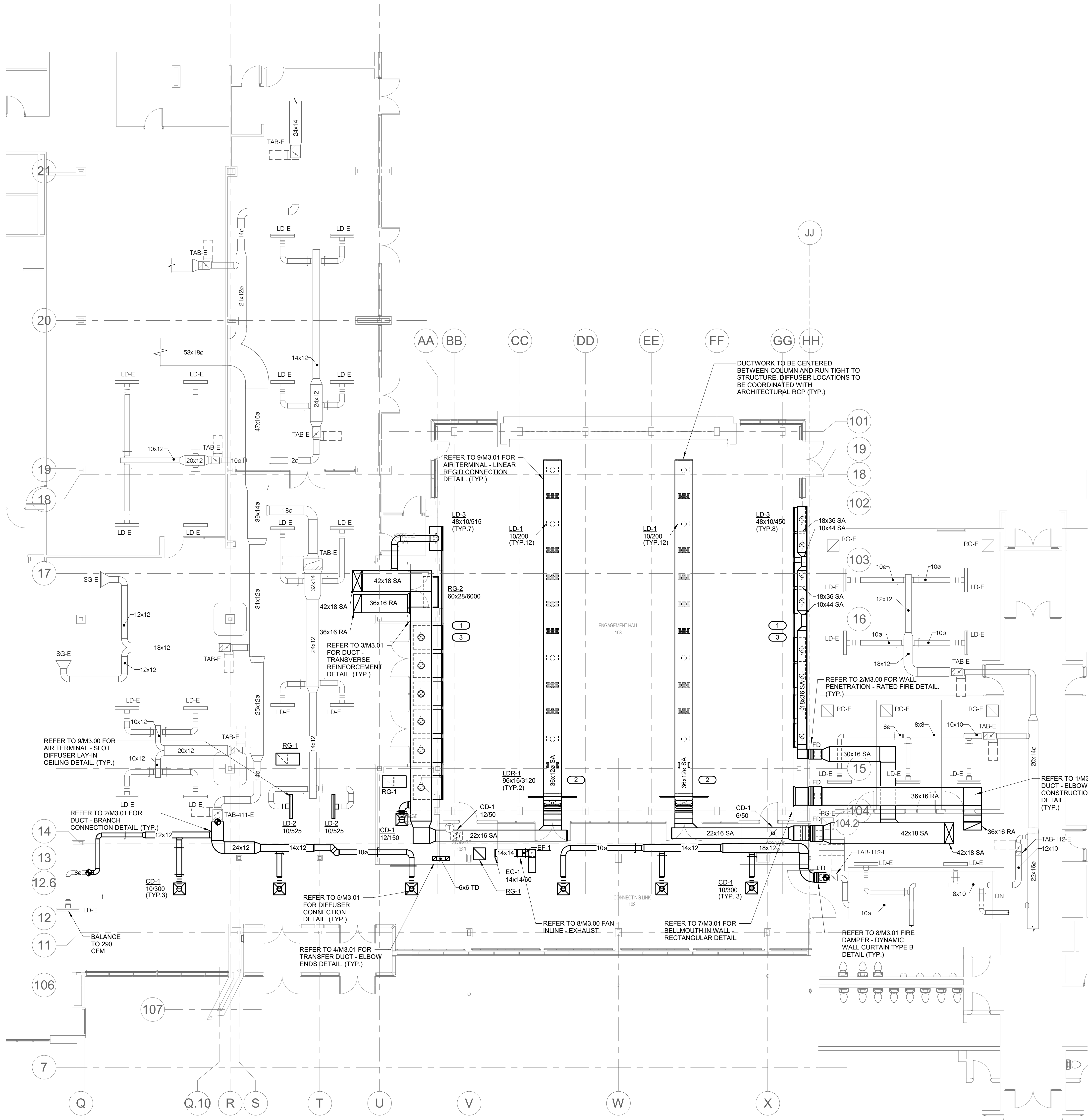
SHEET TITLE:
**FLOOR PLAN -
VENTILATION**

SHEET NUMBER:

M1.11

5/16/2025 11:12:45 AM

- KEY NOTES: C #**
1. PROVIDE CONTINUOUS LINEAR DIFFUSER TO MATCH LENGTH SHOWN IN ARCHITECTURAL DRAWINGS. PROVIDE ACTIVE SECTION AS SCHEDULED. BLANK OFF UNUSED PORTION AS REQUIRED.
 2. PROVIDE WALL MOUNTED LINEAR GRILLE ABOVE ENTRANCE TO FEED AIR INTO SOFFIT. REFER TO ARCHITECTURAL PLANS FOR MOUNTING ELEVATIONS.
 3. DIFFUSERS AND DUCTWORK ARE TO BE COORDINATED WITH STRUCTURAL CROSS BRACING, HORIZONTAL BEAMS, AND VERTICAL COLUMNS.



1 FLOOR PLAN - VENTILATION
1/8" = 1'-0"

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REV. SCALE IN INCHES PROJECT #202505446.00



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DKA PROJECT NO: 24-027

KEY PLAN:

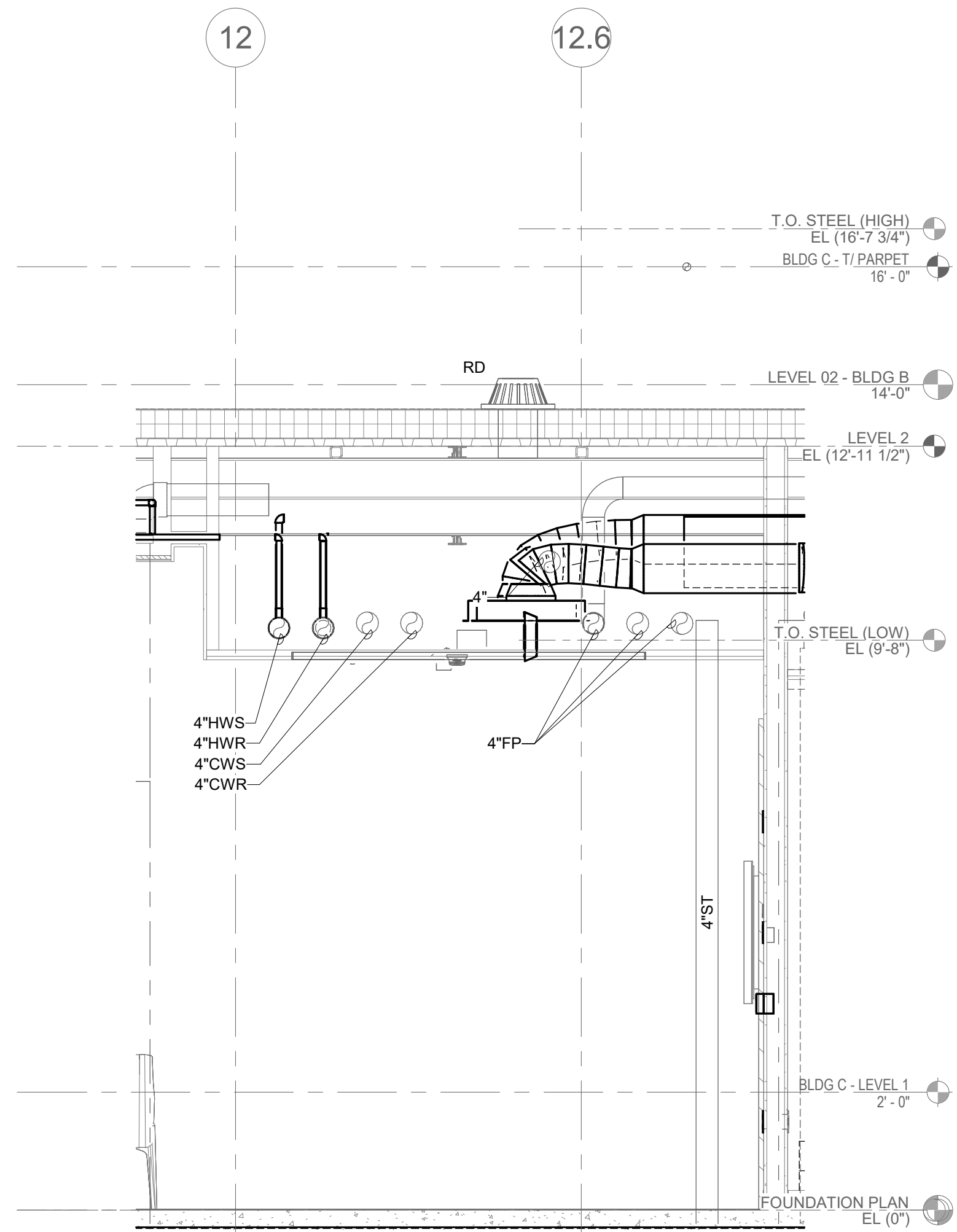
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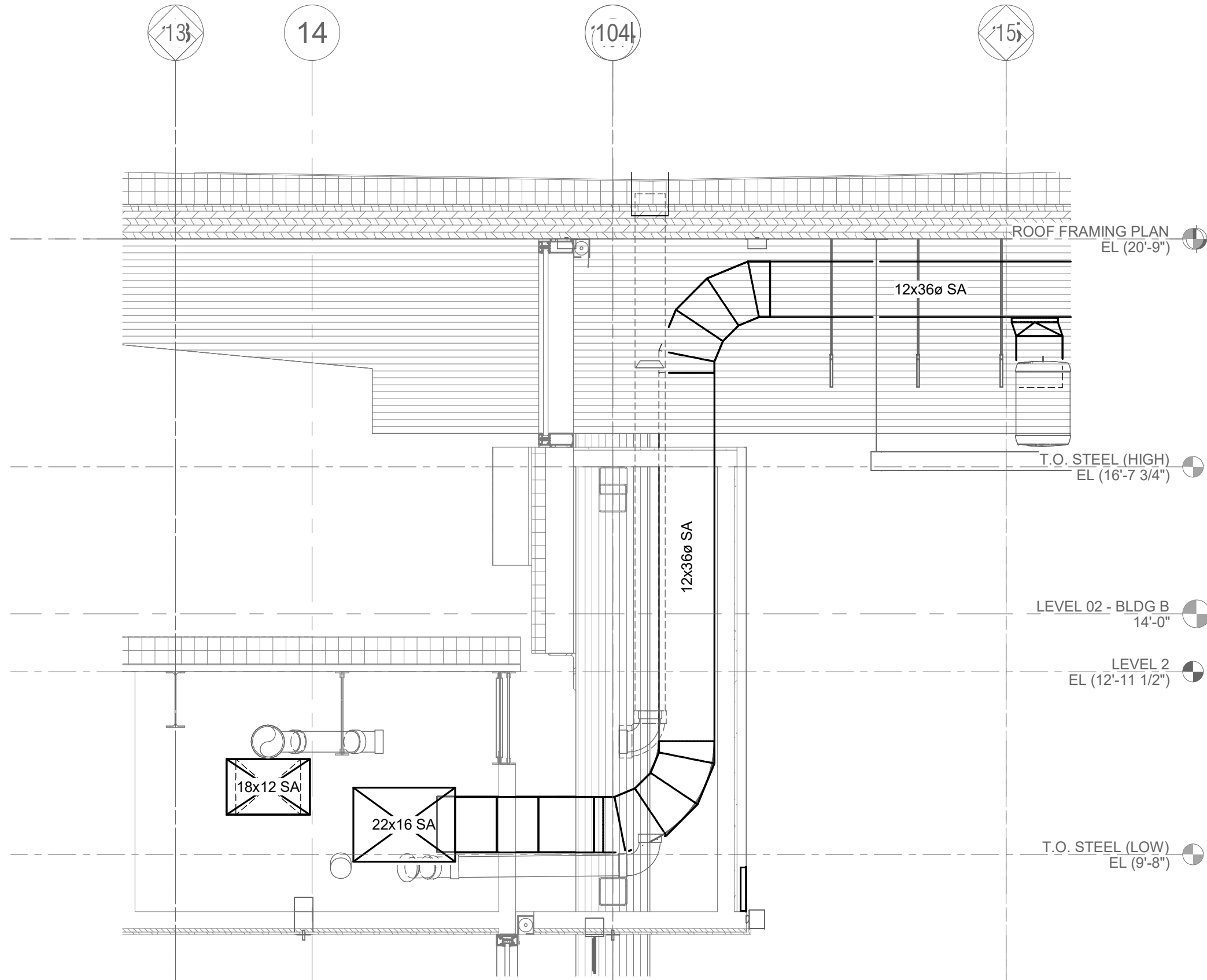
SHEET TITLE:
SECTION VIEWS

SHEET NUMBER:
M2.00

5/16/2025 11:12:48 AM



1 SECTION VIEW - CORRIDOR
1/2" = 1'-0"

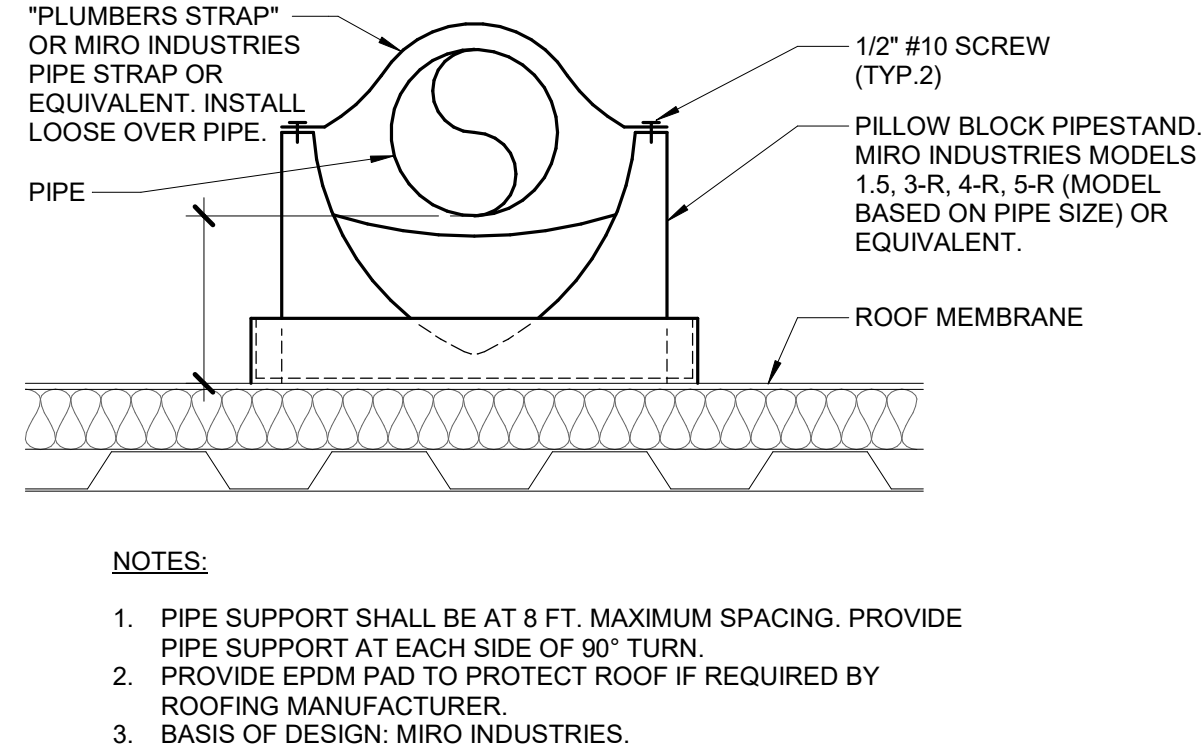


2 SECTION VIEW - SOFFIT
1/2" = 1'-0"

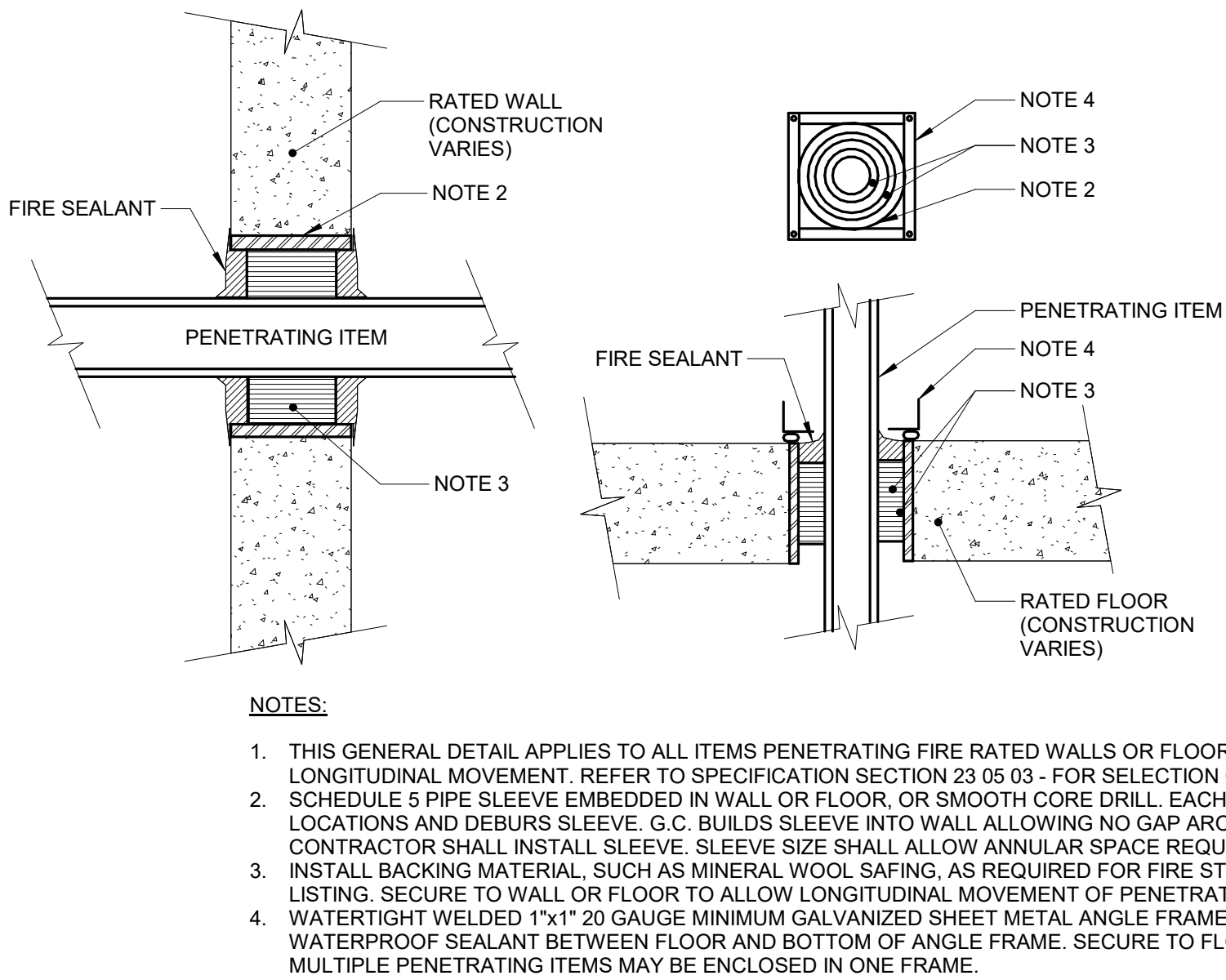
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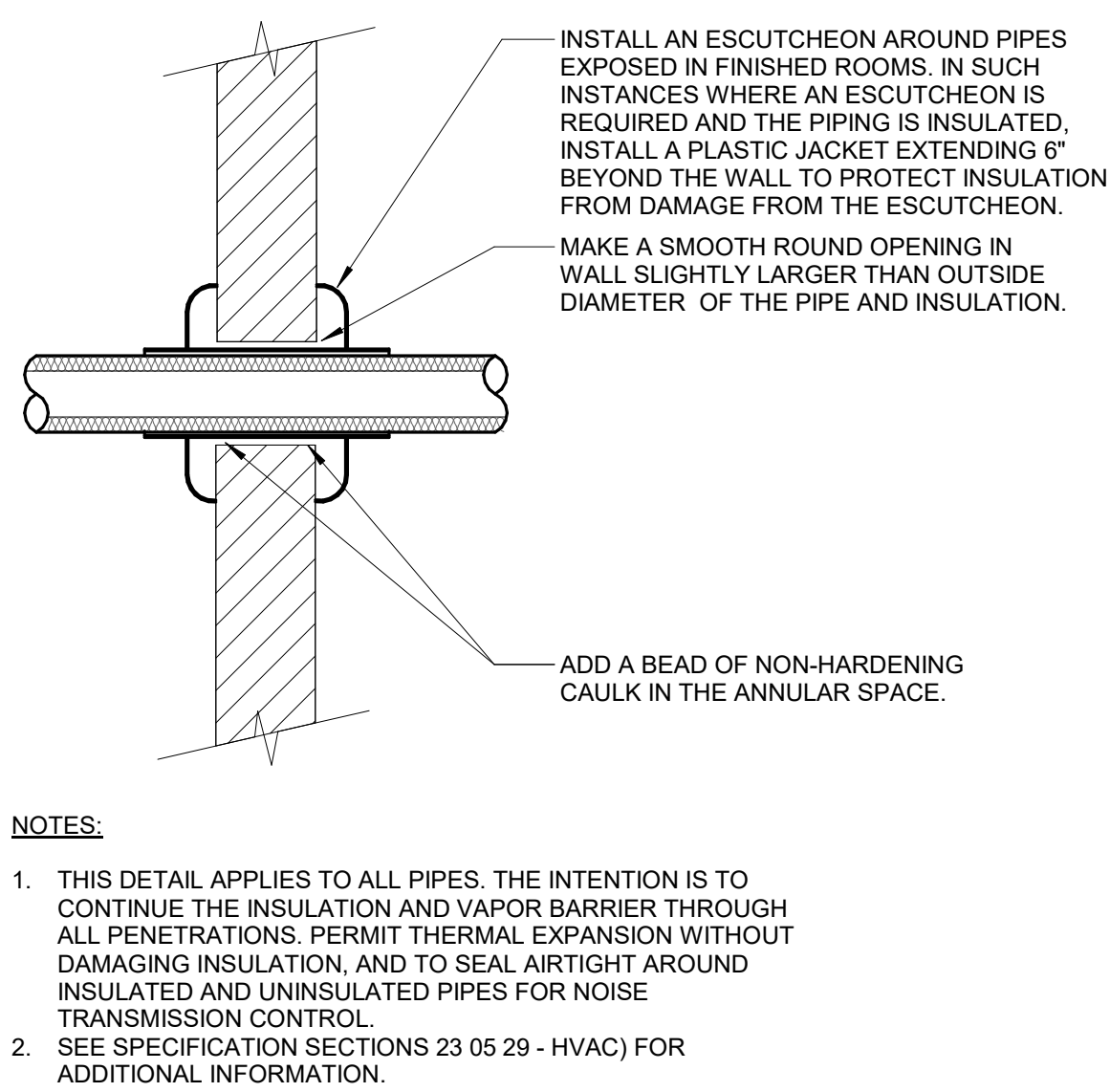
Illinois Design Firm Registration #19029870-0014
REV. SCALE IN INCHES PROJECT #202005446.00



1 PIPE ROOF SUPPORT
NO SCALE

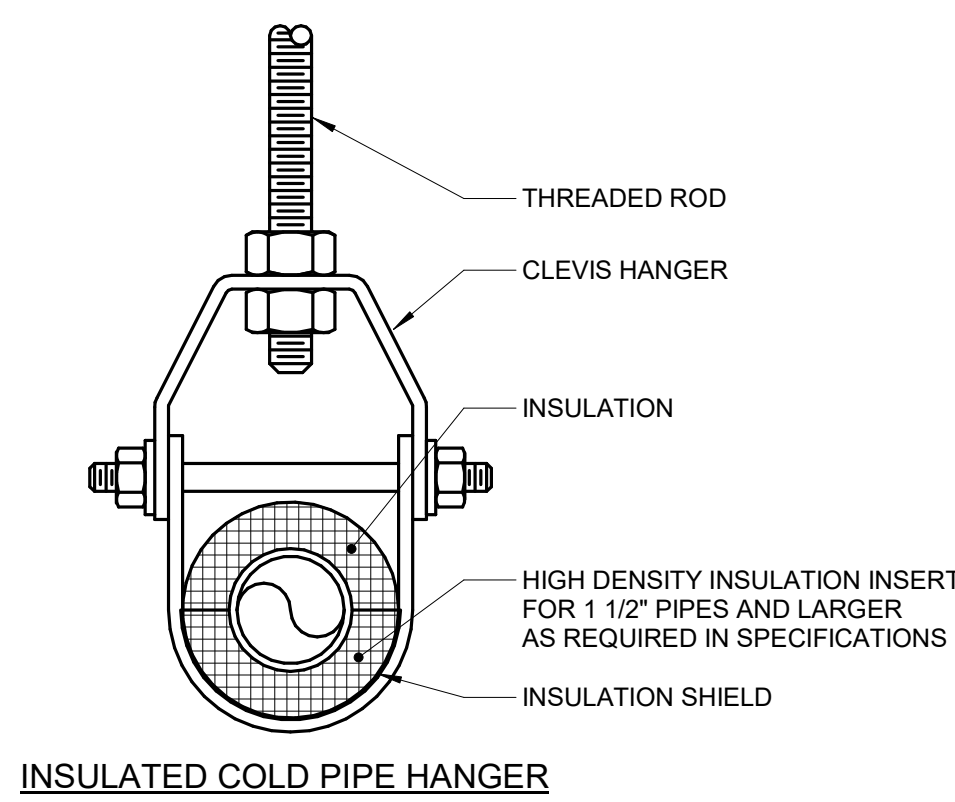


2 WALL PENETRATION - RATED FIRE BARRIER
NO SCALE



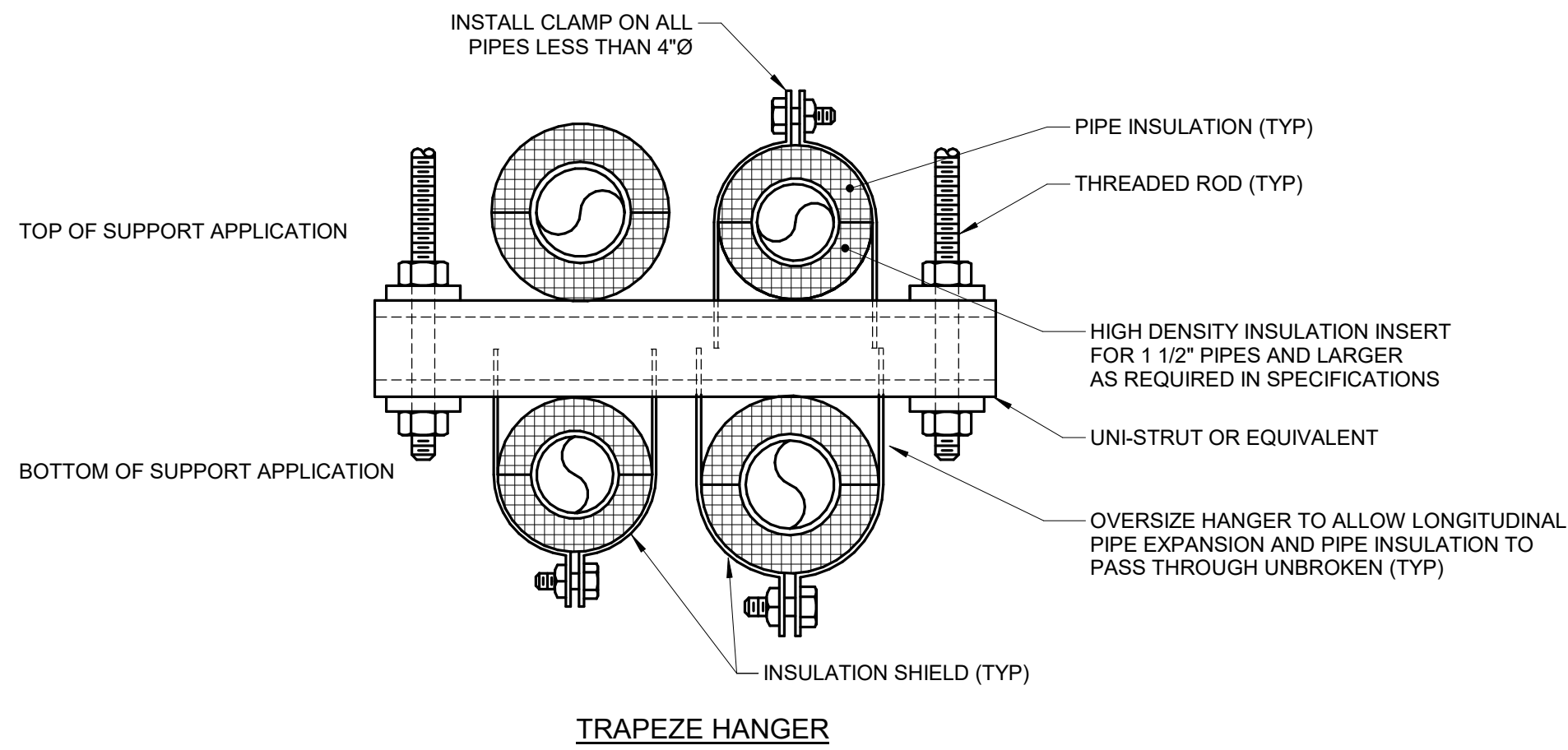
- NOTES:
- THIS DETAIL APPLIES TO ALL PIPES. THE INTENTION IS TO CONTINUE THE INSULATION AND VAPOR BARRIER THROUGH ALL PENETRATIONS. PERMIT THERMAL EXPANSION WITHOUT DAMAGING INSULATION, AND TO SEAL AIRTIGHT AROUND INSULATED AND UNINSULATED PIPES FOR NOISE TRANSMISSION CONTROL.
 - SEE SPECIFICATION SECTIONS 23 05 29 - HVAC) FOR ADDITIONAL INFORMATION.

3 WALL PENETRATION - NON-FIRE RATED
NO SCALE

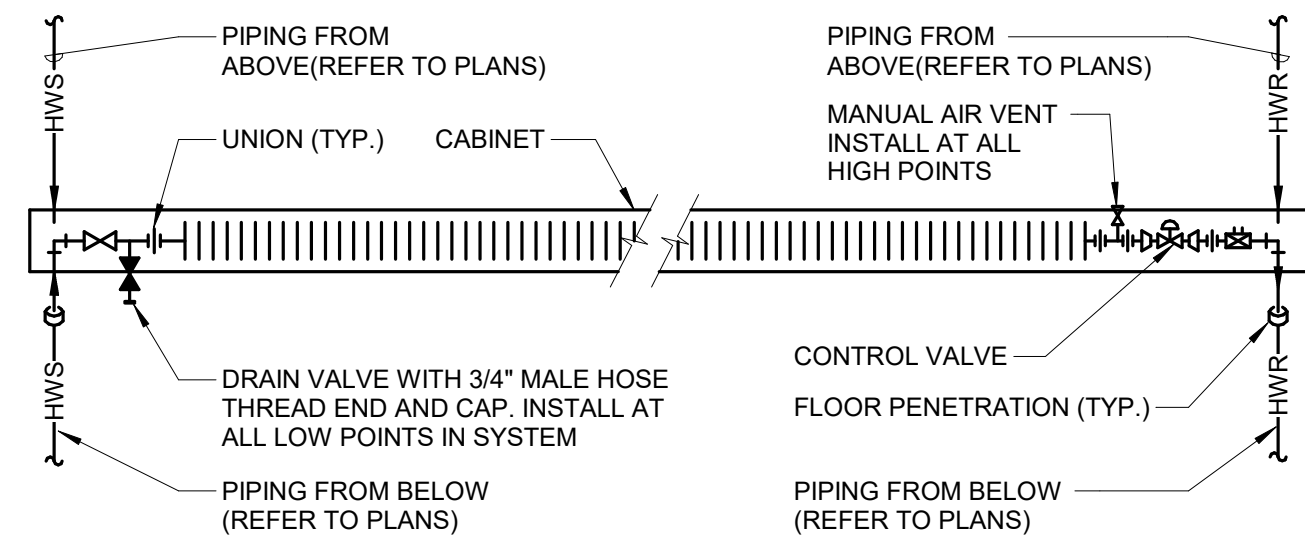


- NOTES:
- REFER TO SPECIFICATION SECTIONS 23 05 29 & 23 07 19.

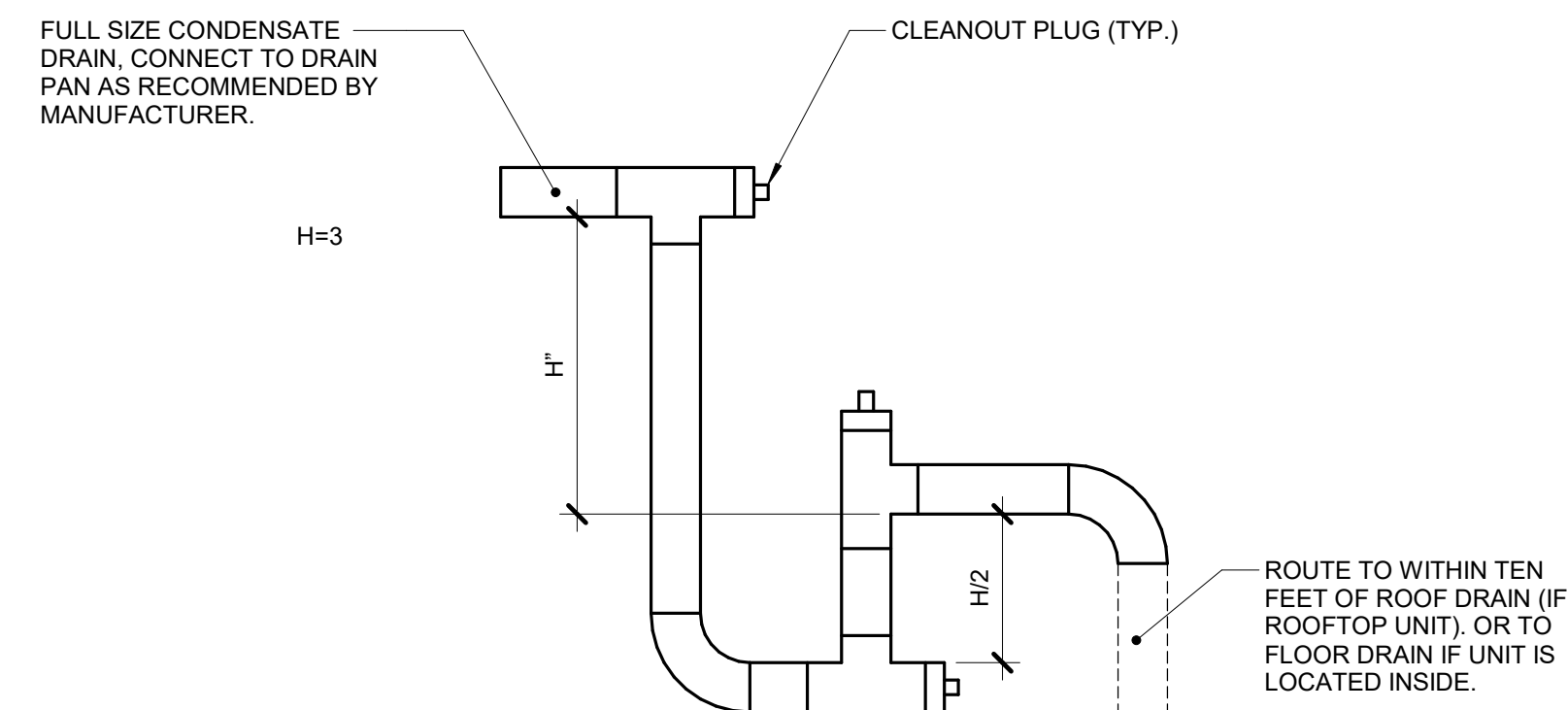
4 PIPE - HANGERS AND SUPPORTS
NO SCALE



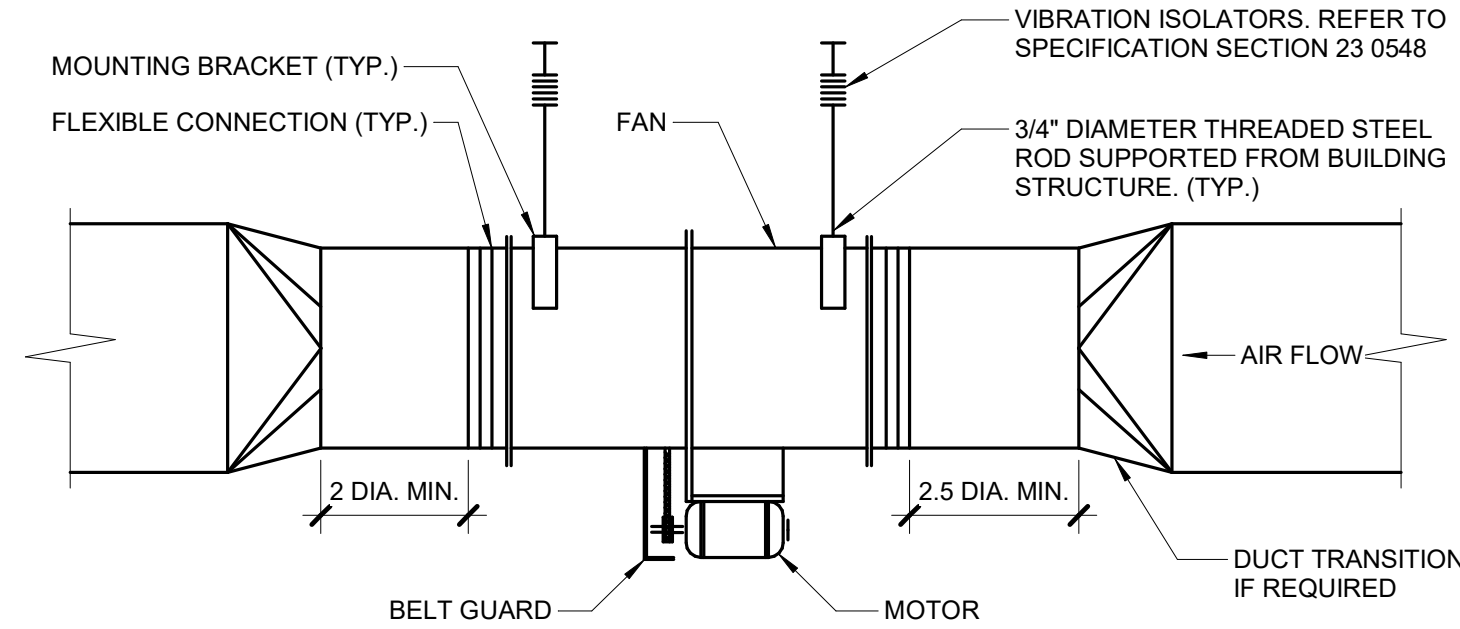
5 RADIATION - PIPING DIAGRAM
NO SCALE



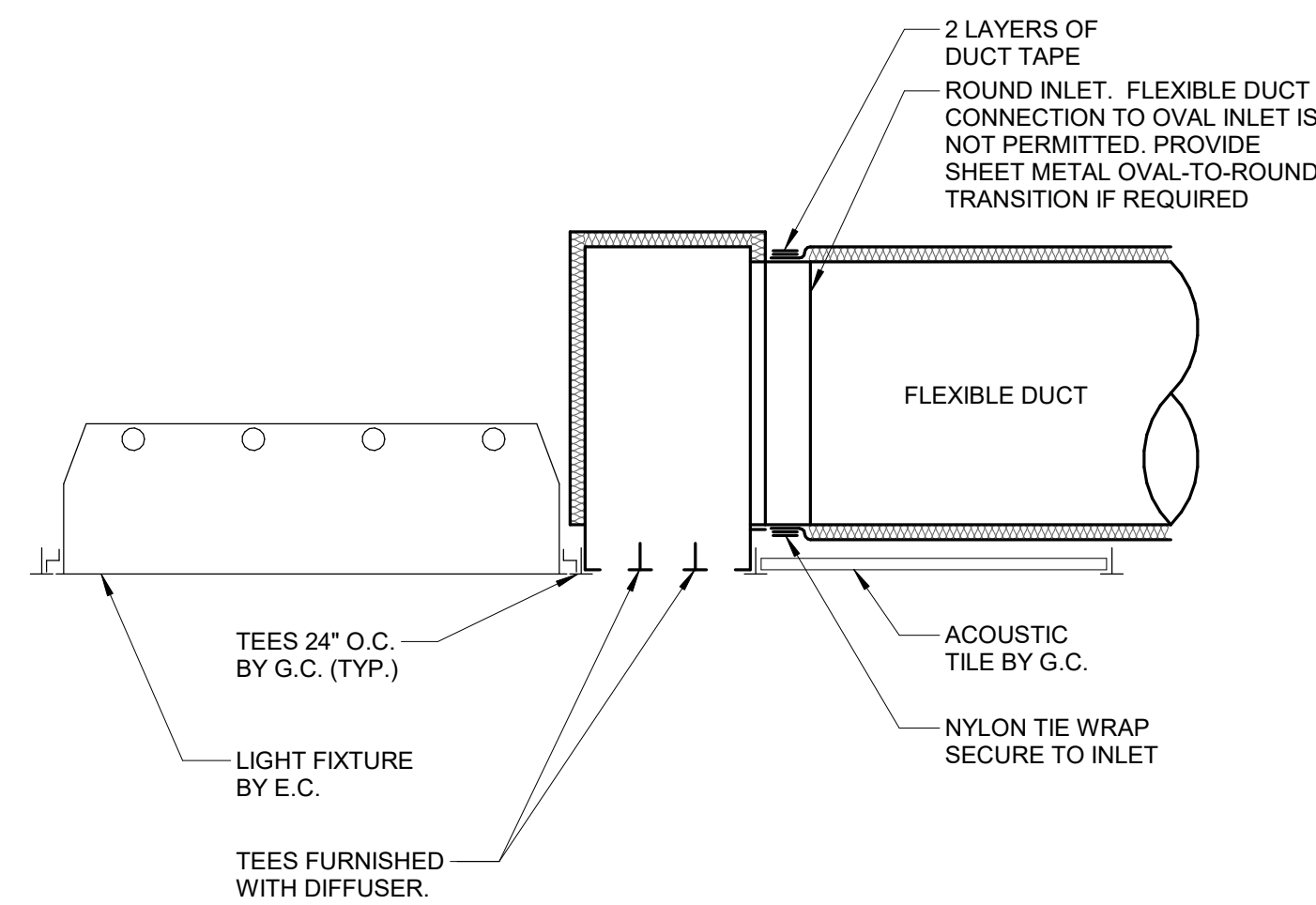
6 CABINET HEATER - 2-PIPE PIPING DIAGRAM
NO SCALE



7 CONDENSATE TRAP - DRAW THROUGH COIL
NO SCALE



8 FAN - IN-LINE EXHAUST
NO SCALE



9 AIR TERMINAL - SLOT DIFFUSER LAY-IN CEILING
NO SCALE

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PROJECT #202505446-00

0 1 2 3
INCHES



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DKA PROJECT NO: 24-027

KEY PLAN:

SHEET STATUS: 05/16/2025
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NO.	DESCRIPTION:	DATE:

SHEET TITLE:
HVAC DETAILS

SHEET NUMBER:

M3.00

5/16/2025 11:12:49 AM



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DKA PROJECT NO: 24-027

KEY PLAN:

SHEET STATUS: 05/16/2025
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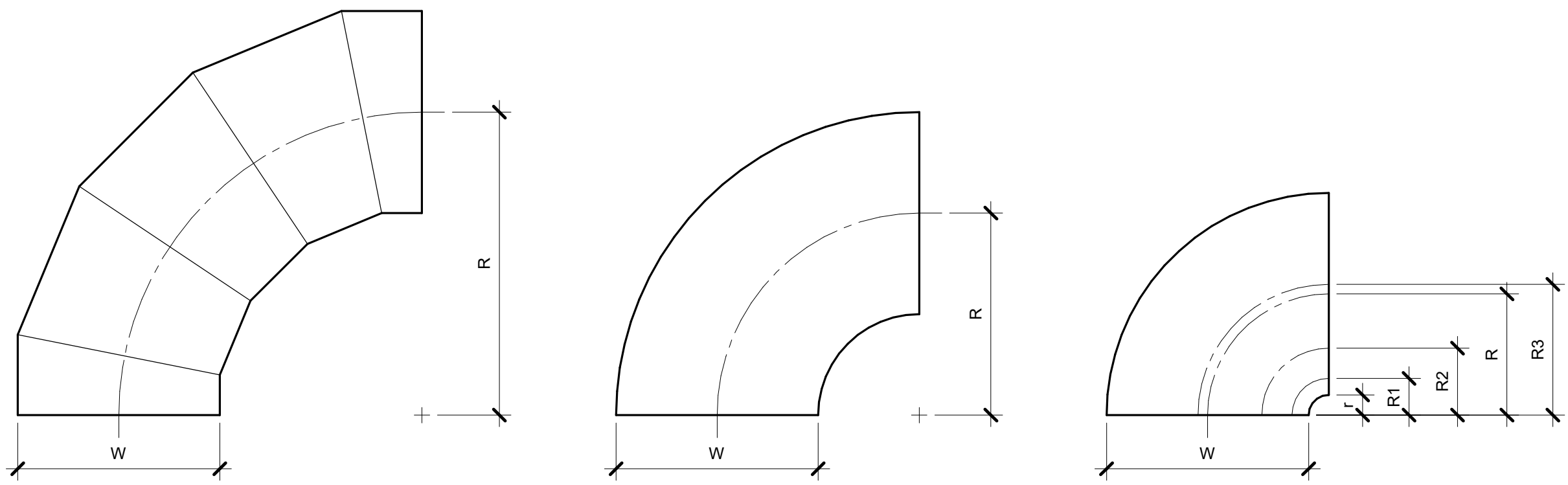
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SHEET TITLE:
HVAC DETAILS

SHEET NUMBER:

M3.01

5/16/2025 11:12:50 AM

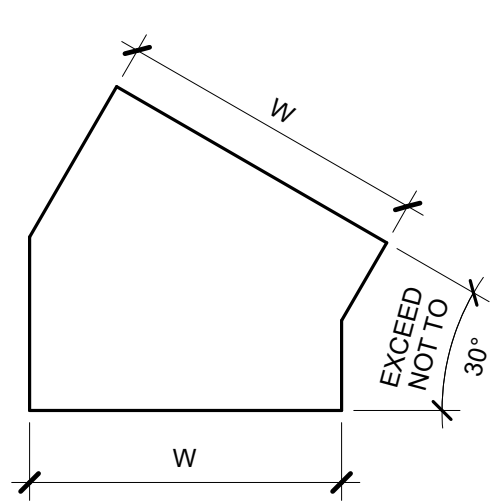


OVAL / ROUND
RADIUS ELBOW
SMOOTH OR 5 GORE (MINIMUM)
R/W = 1.5 (MINIMUM)

RECTANGULAR
RADIUS ELBOW
TYPE RE1
R/W = 1.0 (MINIMUM)
R/W < 1.0 SHALL BE TYPE
RE3

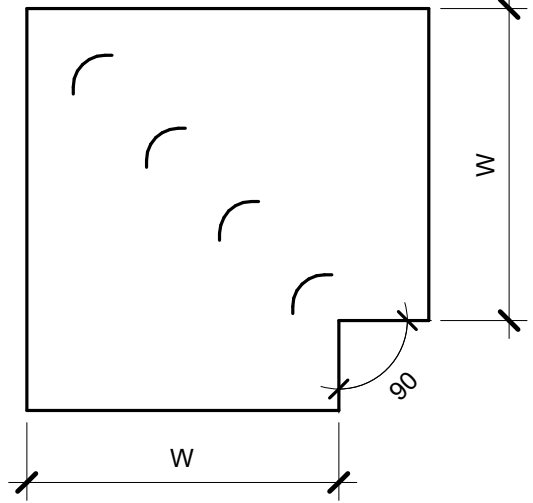
RECTANGULAR
RADIUS ELBOW WITH VANES
TYPE RE3

REFER TO SMACNA HVAC SYSTEMS DUCT DESIGN MANUAL,
FOURTH EDITION, SECTION 5.14 "SPLITTER VANES" AND SMACNA
HVAC DUCT CONSTRUCTION STANDARDS, THIRD EDITION,
FIGURES 4-2 AND 4-9 AND CHARTS 4-1 AND 4-1M. ELBOW SHALL
HAVE THREE SPLITTER VANES AND R/W = 0.10 (R/W = 0.60) UNLESS
NOTED OTHERWISE.

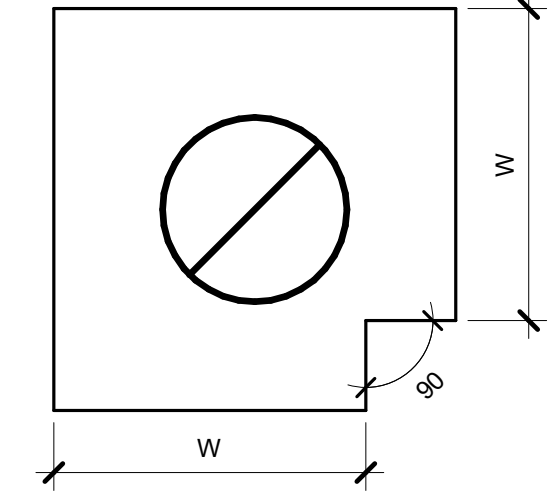


RECTANGULAR
MITERED ELBOW
WITH VANES
TYPE RE6

USE ONLY AS PART OF OFFSETS
AND TRANSITIONS PER FIGURE 4-7
TYPE 2 OR AS SHOWN ON
DRAWINGS. OFFSETS ABOVE 30"
SHALL BE TYPE RE1.

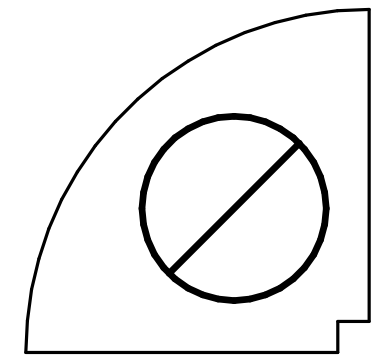


RECTANGULAR
MITERED ELBOW
WITHOUT VANES
TYPE RE2



RECTANGULAR / OVAL / ROUND
MITERED ELBOW
WITHOUT VANES
TYPE RE4

NOT ALLOWED



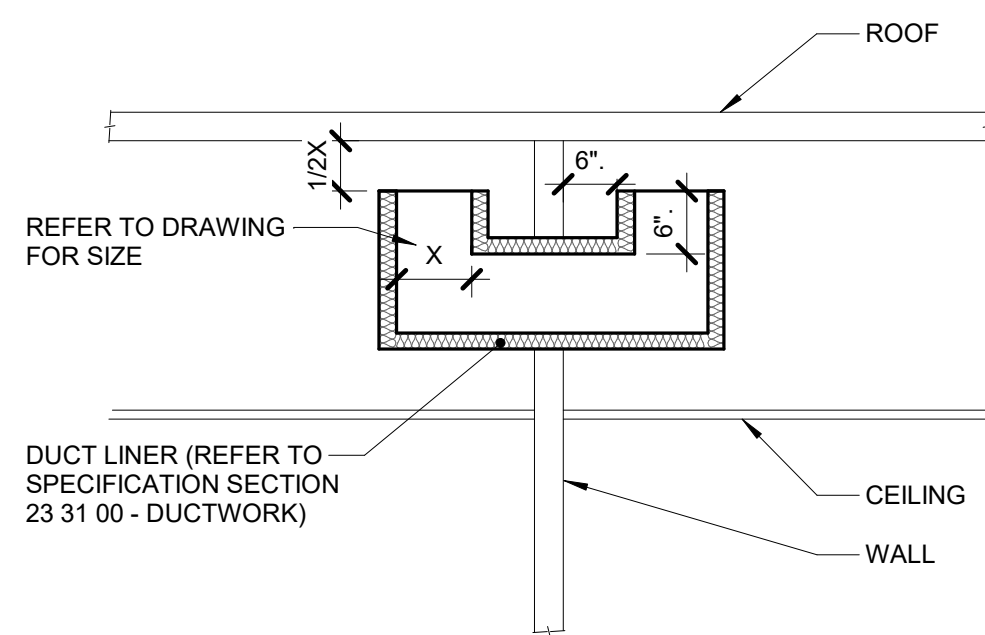
RECTANGULAR
RADIUS ELBOW WITH
SQUARE THROAT
NOT ALLOWED

NOTES:

1. BEAD, CROSSBREAK, AND REINFORCE FLAT SURFACES AS IN
STRAIGHT DUCT.
2. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.
3. DEFAULT ELBOW SHALL BE TYPE "RE1".
4. ELBOW TYPES SHALL BE INSTALLED AS SHOWN AND NOT BE
SUBSTITUTED WITHOUT PERMISSION. EXCEPTION: RE1 OR RE3
MAY BE SUBSTITUTED FOR RE2.

1 DUCT - ELBOW CONSTRUCTION

NO SCALE

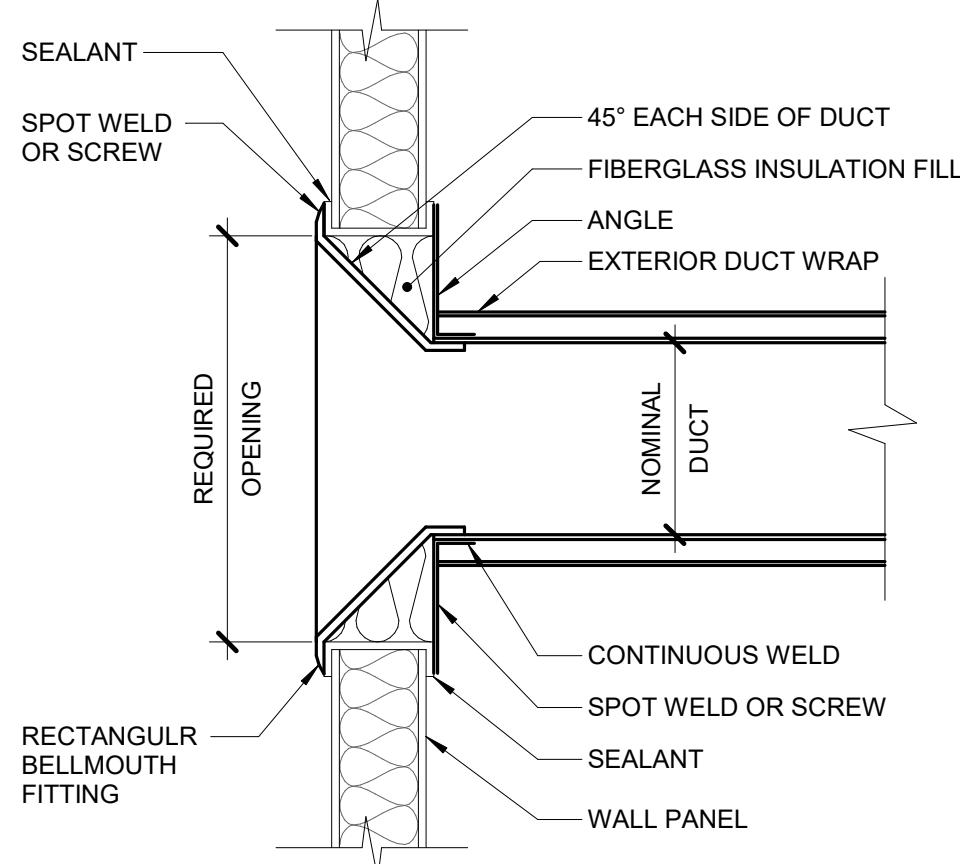


REFER TO DRAWING
FOR SIZE

DUCT LINER (REFER TO
SPECIFICATION SECTION
23.31.00 - DUCTWORK)

4 TRANSFER DUCT - ELBOW ENDS

NO SCALE



NOTES:

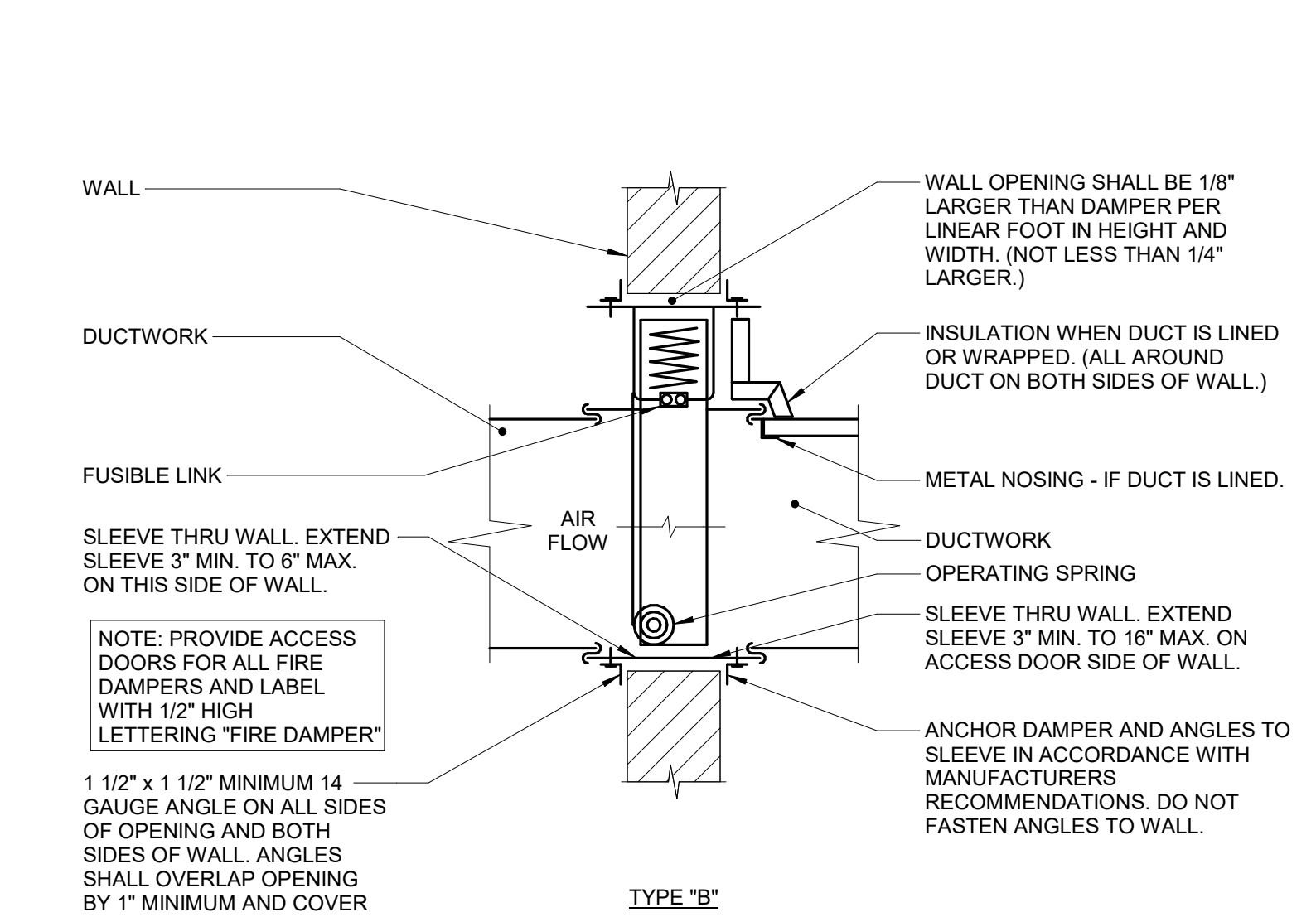
1. COORDINATE WITH HOUSING PANEL MANUFACTURER FOR
EXACT BELLMOUTH FITTING INSTALLATION REQUIREMENTS.

7 BELLMOUTH IN WALL DETAIL - RECTANGULAR

NO SCALE

5 DIFFUSER CONNECTION DETAIL

NO SCALE

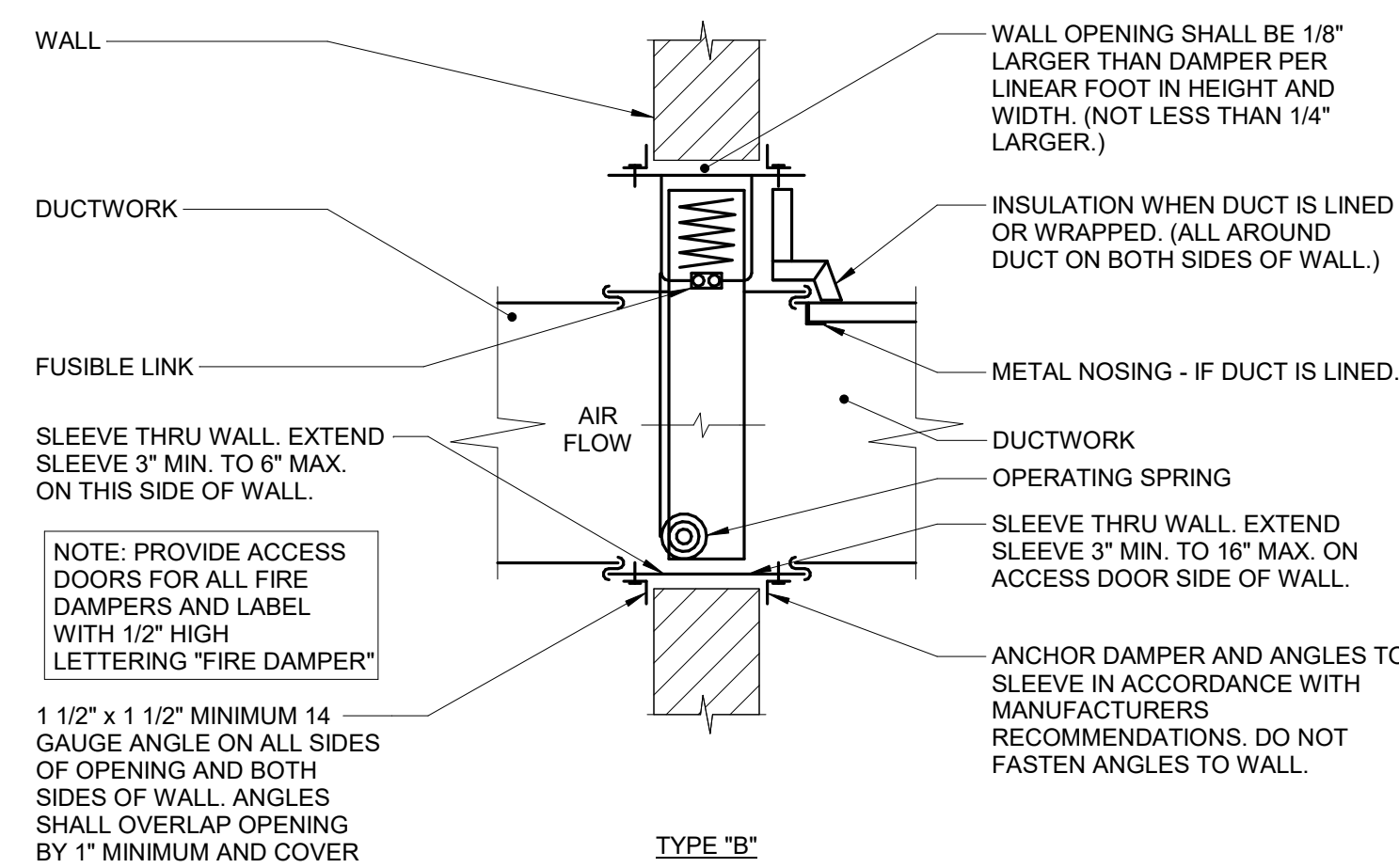


NOTES:

1. TO ATTACH FLEX DUCT TO THE HARD DUCT, TAPE THE INNER
LINER TO THE HARD DUCT THEN ATTACH WITH TWO NYLON TIE
WRAPS, ONE FOR THE INNER LINER AND ONE FOR THE OUTER
SHELL. FOLD THE OUTER SHELL INSIDE ITSELF SO IT HAS NEAT
EDGES PRIOR TO TIE WRAPPING.
2. "SMARTFLOW" ELBOW (WWW.HARTANDCOOLEY.COM) AND
"FLEXRIGHT" (WWW.TITUS-HVAC.COM) ARE ACCEPTABLE
PRODUCTS FOR DURABLE ELBOW SUPPORT.

8 FIRE DAMPER - DYNAMIC WALL CURTAIN TYPE B

NO SCALE



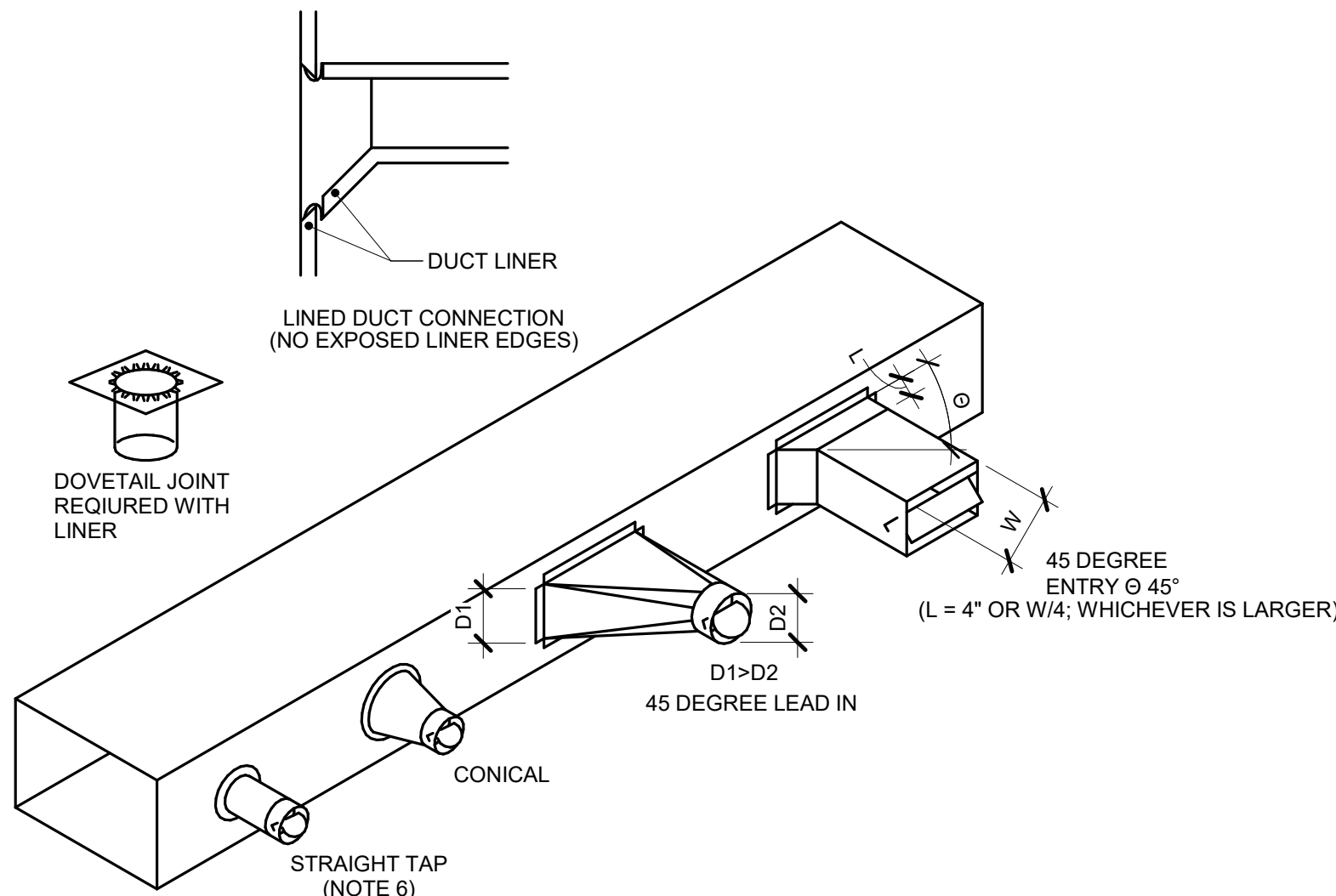
NOTE: PROVIDE ACCESS
DOORS FOR ALL FIRE
DAMPERS AND LABEL
WITH 1/2" HIGH
LETTERING "FIRE DAMPER"

1 1/2" x 1 1/2" MINIMUM 14
GAUGE ANGLE ON ALL SIDES
OF OPENING AND BOTH
SIDES OF WALL. ANGLES
SHALL OVERLAP OPENING
BY 1" MINIMUM AND COVER
CORNERS OF OPENING.

TYPE "B"

2 DUCT - BRANCH CONNECTIONS

NO SCALE

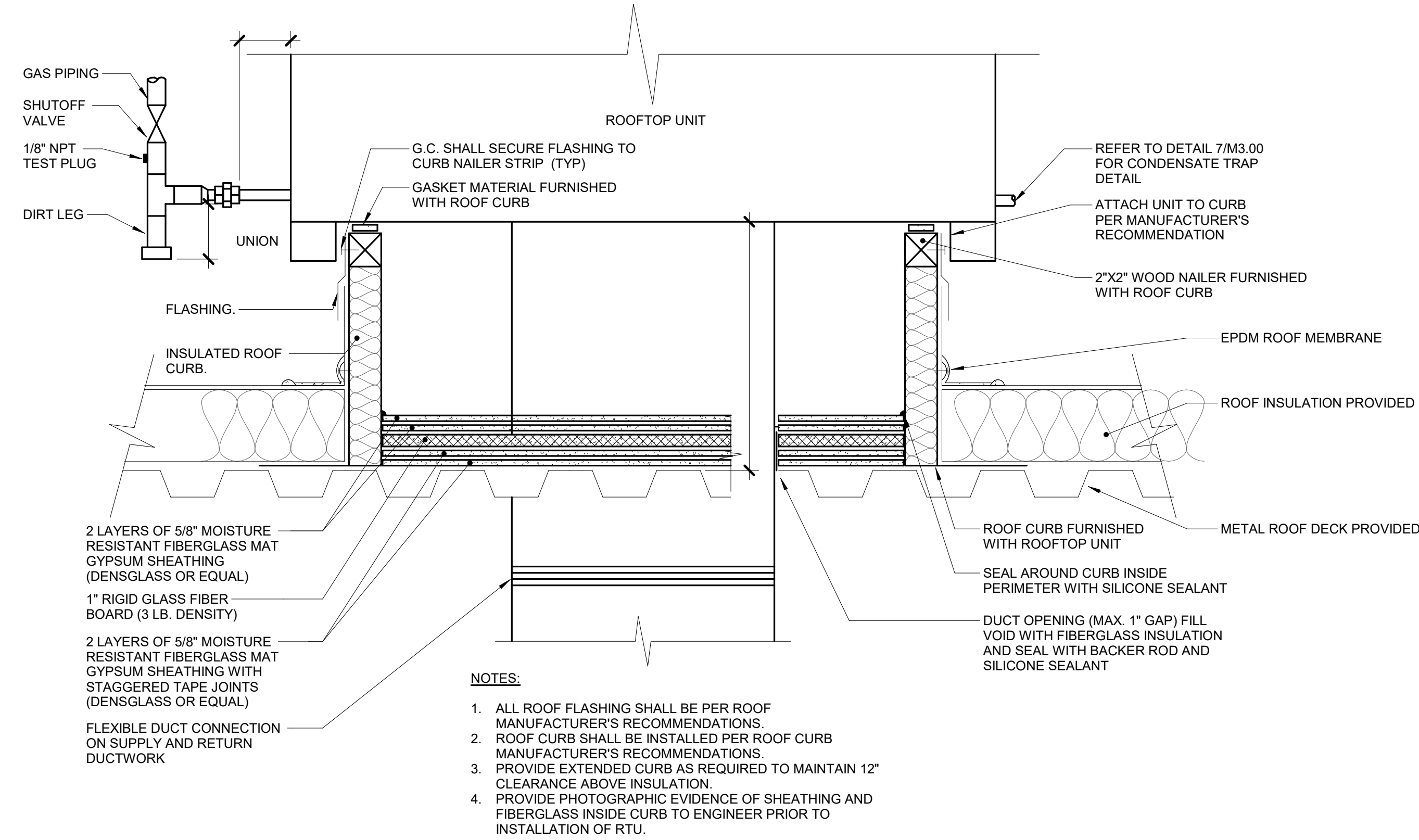


NOTES:

1. DO NOT USE CONNECTIONS WITH SCOOPS.
2. FIT ALL CONNECTIONS TO AVOID VISIBLE OPENINGS AND SEAL
SUITABLY FOR THE PRESSURE CLASS.
3. ADDITIONAL MECHANICAL FASTENERS ARE REQUIRED FOR 4"
W.G. AND OVER.
4. REFER TO SPECIFICATIONS FOR VOLUME DAMPER
REQUIREMENTS.
5. OPENINGS SHALL BE CUT ACCURATELY (SHAPE AND SIZE).
6. STRAIGHT TAPS ONLY ALLOWED DOWNSTREAM OF TERMINAL
AIR BOX OR LOW PRESSURE (<2" W.C. PRESSURE CLASS)

3 DUCT - TRANSVERSE REINFORCEMENT

NO SCALE

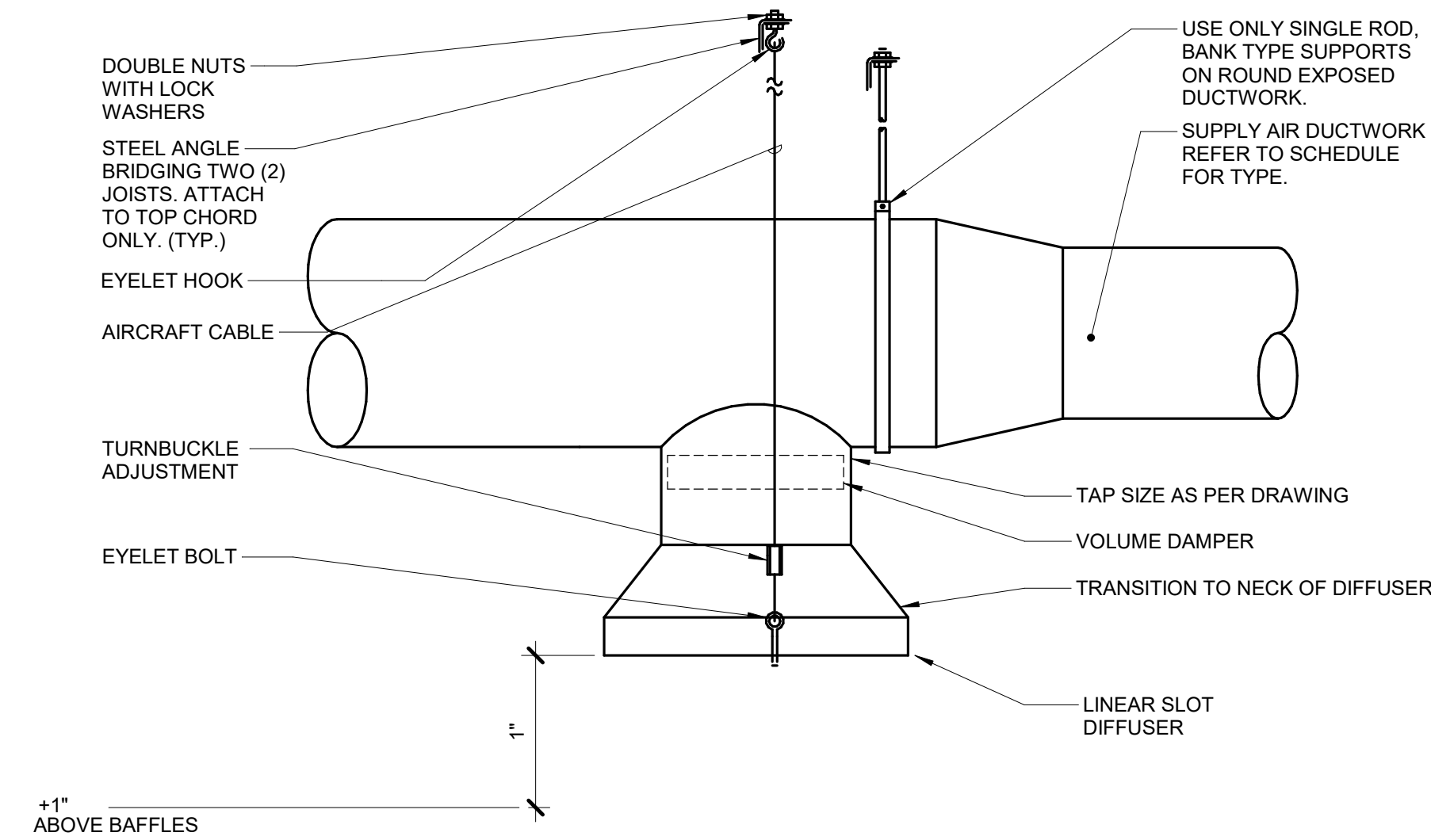


NOTES:

1. ALL ROOF FLASHING SHALL BE PER ROOF
MANUFACTURER'S RECOMMENDATIONS.
2. ROOF CURB SHALL BE INSTALLED PER ROOF CURB
MANUFACTURER'S RECOMMENDATIONS.
3. PROVIDE EXTENDED CURB AS REQUIRED TO MAINTAIN 12"
CLEARANCE ABOVE INSULATION.
4. PROVIDE PHOTOGRAPHIC EVIDENCE OF SHEATHING AND
FIBERGLASS INSIDE CURB TO ENGINEER PRIOR TO
INSTALLATION OF RTU.

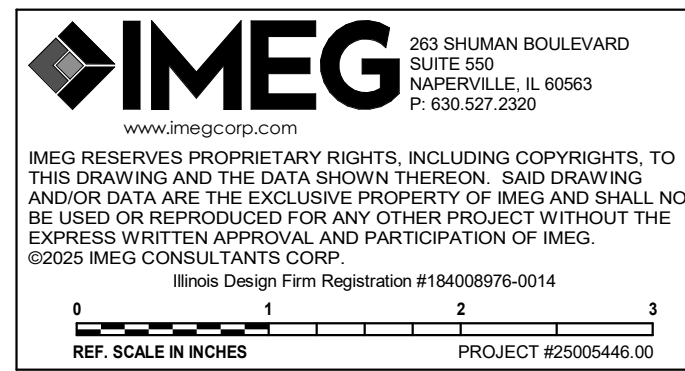
6 ROOF TOP UNIT CURB

NO SCALE



9 AIR TERMINAL - LINEAR RIGID CONNECTION

NO SCALE





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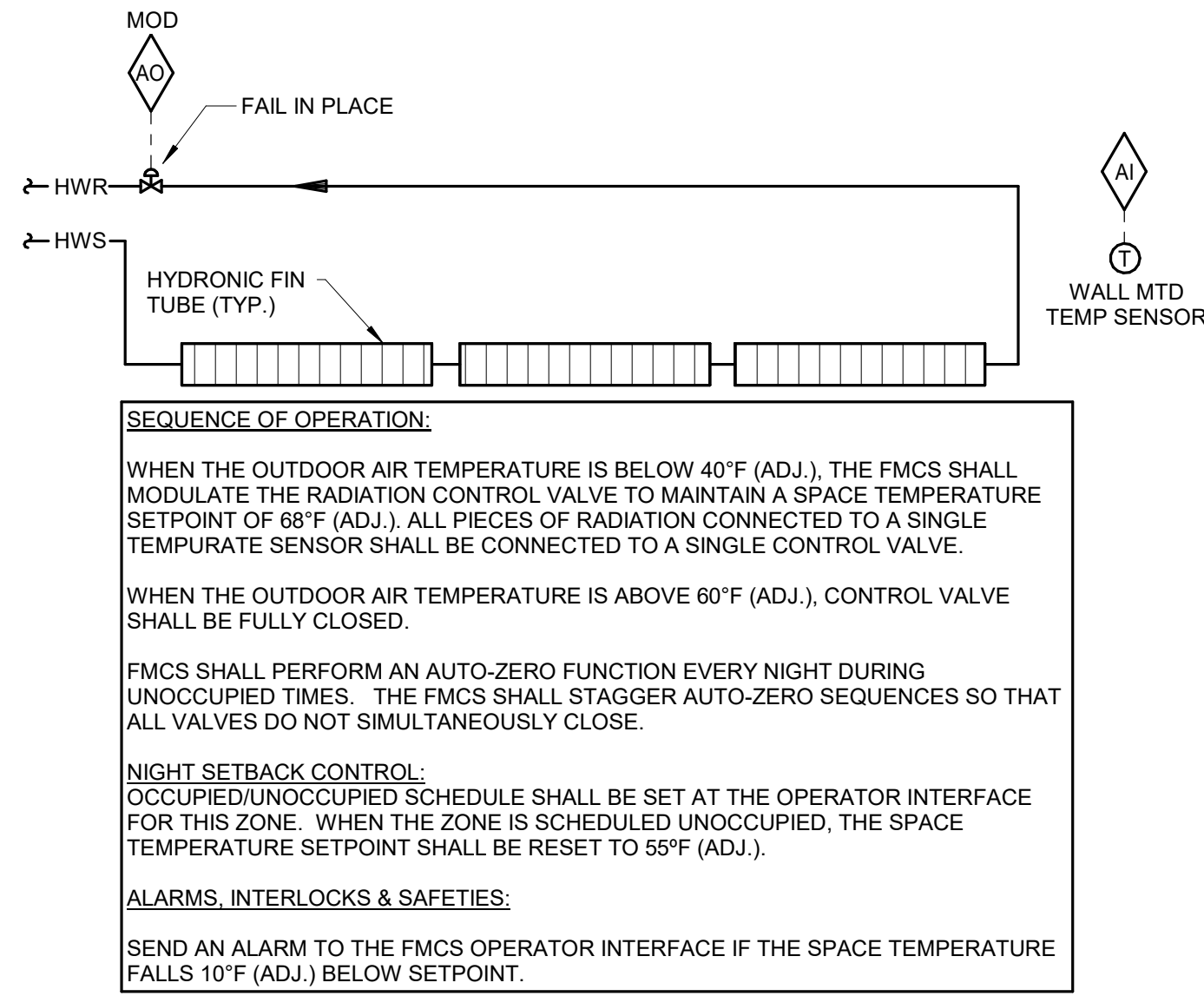
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SHEET TITLE:
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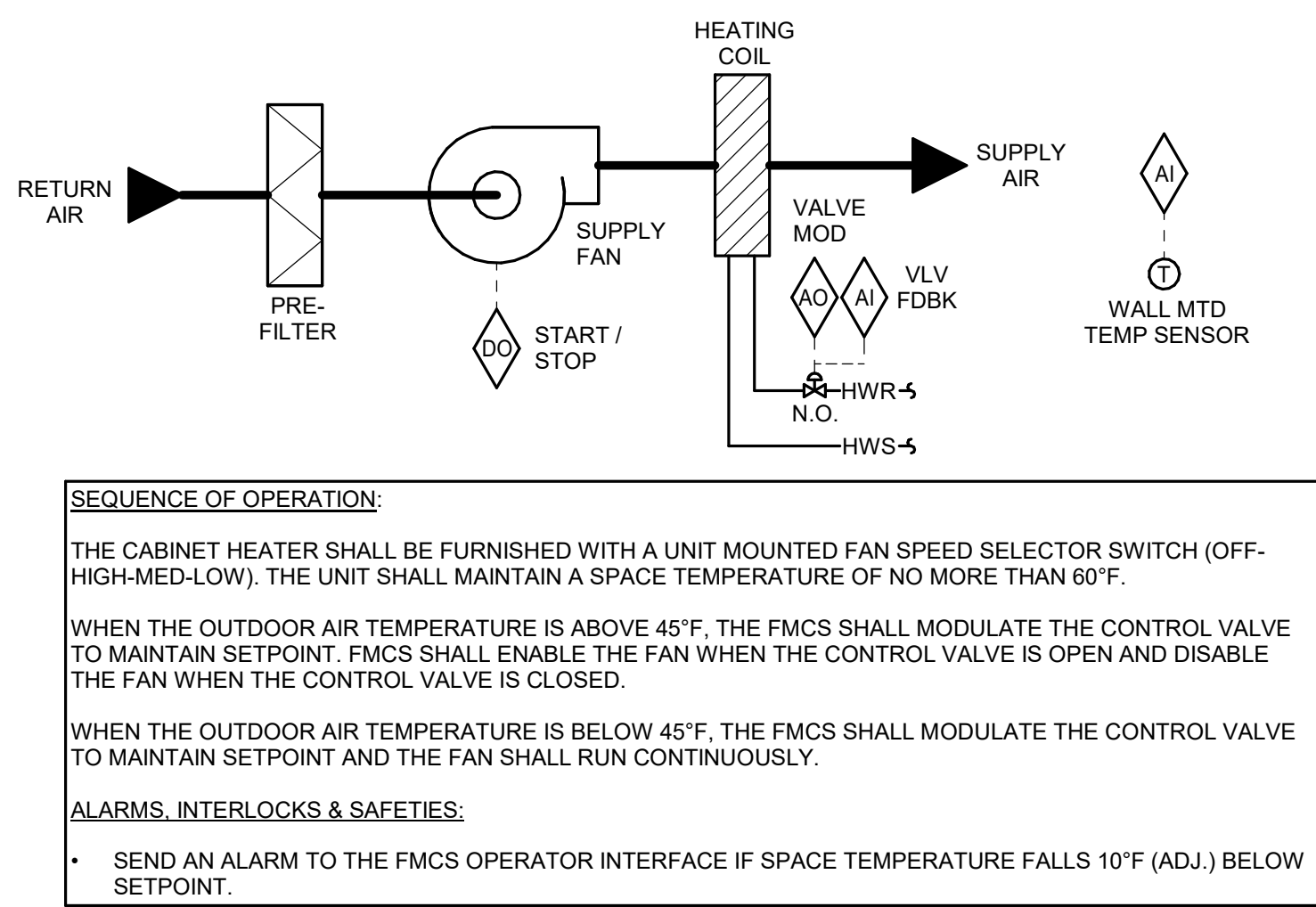
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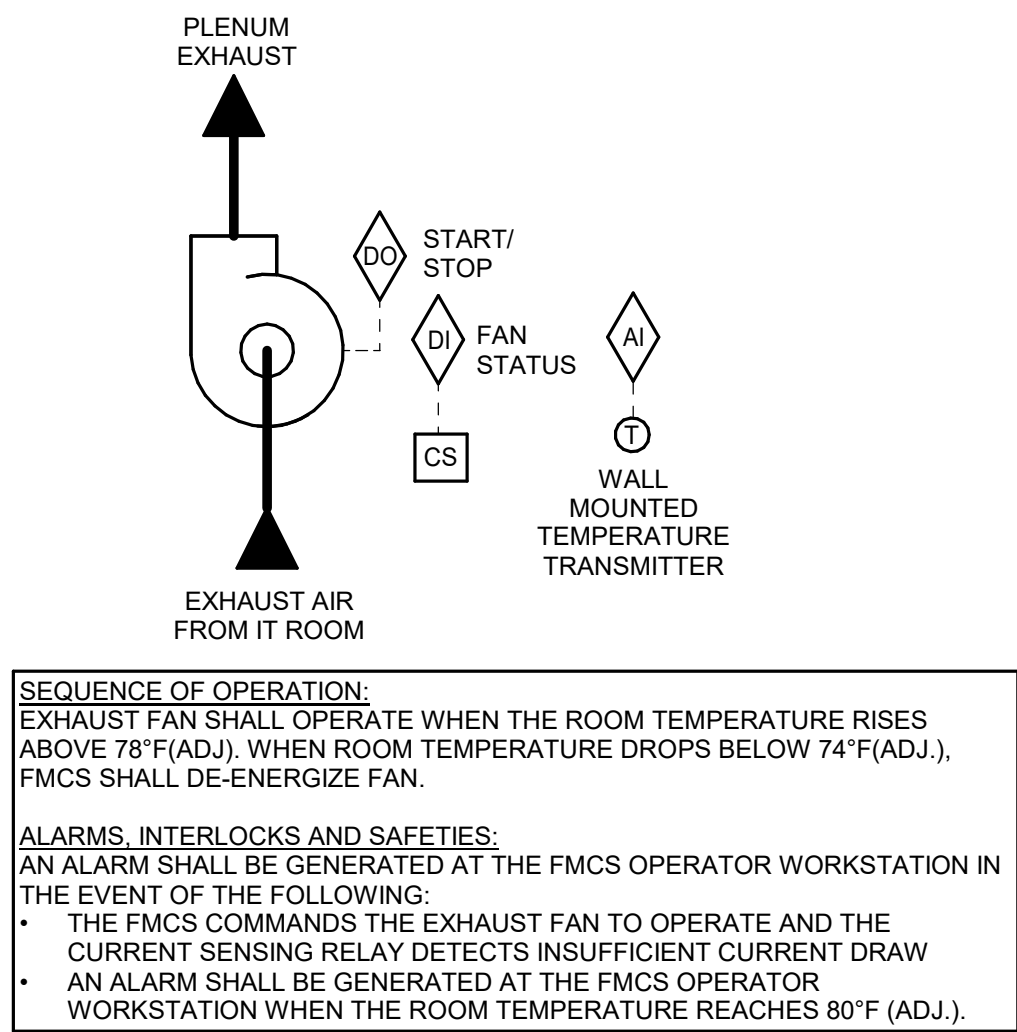
5/16/2025 11:12:51 AM



1 STAND ALONE RADIATION CONTROL
NO SCALE



2 CABINET HEATER CONTROL - HYDRONIC
NO SCALE



3 FAN - TEMPERATURE CONTROL
NO SCALE

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PROJECT #202505446-00

0 1 2 3

REF. SCALE IN INCHES

SCHEDULE GENERAL NOTES:

A. DISCONNECT AND CONTROLLER STARTER FURNISHED AND INSTALLED BY:
MFR = MANUFACTURER
EC = ELECTRICAL CONTRACTOR
MC = FURNISHED BY MECHANICAL CONTRACTOR, INSTALLED BY ELECTRICAL CONTRACTOR
MFR/EC = FURNISHED LOOSE BY MANUFACTURER INSTALLED BY ELECTRICAL CONTRACTOR
TCC = TEMPERATURE CONTROL CONTRACTOR

B. DISCONNECT TYPE:
CB = CIRCUIT BREAKER
F = FUSED
NF = NON-FUSED

C. NO EQUIPMENT SHALL BE SELECTED ABOVE 90% OF MOTOR NAME PLATE RATING.
D. MUST BE WITHIN +/- 10% OF SCHEDULED RPM.

E. CURB TYPE:
MFR = STANDARD CURB BY MANUFACTURER
GC = BY GENERAL CONTRACTOR
SAC = SOUND ATTENUATOR CURB

ROOFTOP UNIT SCHEDULE – GAS-DX

NOTES:
1.PROVIDE SHAFT GROUNDING AS REQUIRED
2.LAT LISTED IS AT LEAVING SIDE OF COOLING COIL
3.PROVIDE WITH MODULATING HOT GAS REHEAT. HUMIDITY SENSOR PROVIDED WITH UNIT AND FIELD INSTALLED BY CONTRACTOR TO CONTROL THE SPACE RELATIVE HUMIDITY.
4.PROVIDE WITH FACTORY OUTDOOR AIRFLOW MEASURING STATION.

TAG NAME	AREA SERVED	NOMINAL TONS	MINIMUM OUTSIDE AIR (CFM)	MAXIMUM OUTSIDE AIR (CFM)	SUPPLY FAN (NOTE 3)					EXHAUST FAN (NOTE 1)					UNIT ELECTRICAL DATA					COOLING COIL - DX										HEATING - GAS					MAX.DIMENSIONS															
					NO. OF FANS	CFM TOTAL	EXT S.P. IN W.C.	R.P.M	BHP EACH	MHP EACH	FAN CFM	FAN QTY	TYPE	FAN RPM	BHP EACH (NOTE C)	MHP EACH (NOTE C)	VOLTAGE	PHASES	FLA	MCA	MCCP	BY (NOTE A)	TYPE (NOTE B)	BY (NOTE A)	SCCR	SAT DB °F	EAT WB °F	LAT DB °F (NOTE 2)	LAT WB °F (NOTE 2)	SENSIBLE INB	TOTAL MBH	AMB TEMP °F	STAGES	MIN EFF AFUE	MIN INPUT MBH	MIN OUTPUT MBH	TURN DOWNSTEPS	MINIMUM FUEL PRESSURE IN WC	MAXIMUM FUEL PRESSURE IN WC	BEER	FILTER TYPE	CONTROL TYPE	CURB TYPE (NOTE E)	LENGTH	WIDTH	HEIGHT	OPERATING WEIGHT	MANUFACTURER	MODEL	NOTES
RTU-1	EVENT SPACE WEST	17.5	1860	2,800	2	6205	1.75	1350	1.8	3	0	1	DIRECT	1075	0.87	1	460	3	46.1	60	80	MFR	NF	MFR	5,000	81.0	68.0	55.9	55.0	154.4	248.9	95	2	81%	400	324	10:1	7	14	25.00	MERV 8	1/M3.0	MFR	10'-3"	7'-3"	5'-6"	2240	TRANE	YZK210	1,3,4,6
RTU-2	EVENT SPACE EAST	17.5	1815	2,725	2	6050	1.75	1350	1.8	3	0	1	DIRECT	1075	0.87	1	460	3	46.1	60	80	MFR	NF	MFR	5,000	81.0	68.0	55.9	55.0	115.5	154.0	95	2	81%	400	324	10:1	7	14	25.00	MERV 8	1/M3.0	MFR	10'-3"	7'-3"	5'-6"	2130	TRANE	YZK210	1,3,4,6

CABINET HEATER SCHEDULE - HOT WATER

NOTES:
1.COORDINATE COLOR SELECTION WITH ARCHITECT. PRIMED FOR FIELD PAINTING TO MATCH CEILING.

TAG NAME	AREA SERVED	CONFIGURATION	NOMINAL CFM	MBH	GPM	EWT °F	LWT °F	MAX W.P.D. FT. HD	CONTROL TYPE	ELECTRICAL							MAX. DIMENSIONS			WEIGHT		MANUFACTURER	MODEL	NOTES		
										FAN HP	RPM	VOLTAGE	PHASES	DISCONNECT		CONTROLLER/ STARTER		EMERGENCY POWER	LENGTH	WIDTH	HEIGHT				DRY	OPERATING
														BY (NOTE A)	TYPE (NOTE B)	BY (NOTE A)	SCCR									
CH-1	103 VESTIBULE	HORIZONTALLY RECESSED	600	45	2.4	200	180	5	2/M4.01	0.25	1500	120	1	MFR	NF	TCC	5000	Yes	47	30	11	118	128	TRANE	FFE060	ALL
CH-2	103 VESTIBULE	HORIZONTALLY RECESSED	600	45	2.4	200	180	5	2/M4.01	0.25	1500	120	1	MFR	NF	TCC	5000	Yes	47	30	11	118	128	TRANE	FFE060	ALL
CH-3	101 VESTIBULE	HORIZONTALLY RECESSED	400	30	1.5	200	180	5	2/M4.01	0.25	1500	120	1	MFR	NF	TCC	5000	Yes	33	30	11	68	78	TRANE	FFE030	ALL

FAN SCHEDULE

		ELECTRICAL (NOTE 1)																	
TAG NAME	AREA SERVED	CFM	S.P. IN. W.C.	FAN CLASS	WHEEL DIA. INCHES	FAN RPM (NOTE D)	DRIVE TYPE				DISCONNECT		CONTROLLER/ STARTER		EMERGENCY POWER	CONTROL TYPE	MANUFACTURER	MODEL	
								BHP (NOTE C)	MHP (NOTE C)	VOLTAGE	PHASES	BY (NOTE A) TYPE (NOTE B)	BY (NOTE A)	SCCR					
EF-1	STORAGE 103B	60	0.50	INLINE	12	1330	BELT	0.01	0.03	120	1	MFR	NF	TCC	5000	No	34.01	COOK	SQI

RADIATION SCHEDULE

NOTES:
1. REFER TO CONTROL DRAWINGS FOR DESCRIPTION OF CONTROL TYPE.
2. BLACK FINISH
3. RADIATION TO BE PEDESTAL MOUNTED ELEMENT TO BE 5.7" TALL ON 3" PEDESTAL.
4. RADIATION BEING FED FROM BELOW SHALL HAVE AN END CAP.

TAG NAME	AREA SERVED	ELEMENT			LENGTH FT.	PIPE SIZE	ENCLOSURE HEIGHT (NOTE 3)	ENCLOSURE WIDTH	AVERAGE WATER TEMP °F	CONTROL TYPE (NOTE 1)	MANUFACTURER	MODEL	NOTES
		BTU/FT	GPM	MAT'L									
RAD-1	EVENT SPACE	480	0.5	ALUMINUM	10'-6"	3/4"	8 3/4"	3 1/2"	190	1/M4.01	RITTILING	PR	1, 2, 3, 4
RAD-2	EVENT SPACE	480	0.5	ALUMINUM	2'-6"	3/4"	8 3/4"	3 1/2"	190	1/M4.01	RITTILING	PR	1, 2, 3, 4
RAD-3	EVENT SPACE	480	0.5	ALUMINUM	6'-6"	3/4"	8 3/4"	3 1/2"	190	1/M4.01	RITTILING	PR	1, 2, 3, 4
RAD-4	EVENT SPACE	480	0.5	ALUMINUM	10'-6"	3/4"	8 3/4"	3 1/2"	190	1/M4.01	RITTILING	PR	1, 2, 3, 4
RAD-5	EVENT SPACE	480	0.5	ALUMINUM	2'-6"	3/4"	8 3/4"	3 1/2"	190	1/M4.01	RITTILING	PR	1, 2, 3, 4
RAD-6	EVENT SPACE	480	0.5	ALUMINUM	3'-6"	3/4"	8 3/4"	3 1/2"	190	1/M4.01	RITTILING	PR	1, 2, 3, 4
RAD-7	CORRIDOR	480	0.5	ALUMINUM	12'-0"	3/4"	8 3/4"	3 1/2"	190	1/M4.01	RITTILING	PR	1, 2, 3, 4
RAD-8	CORRIDOR	480	0.5	ALUMINUM	12'-0"	3/4"	8 3/4"	3 1/2"	190	1/M4.01	RITTILING	PR	1, 2, 3, 4
RAD-9	CORRIDOR	480	0.5	ALUMINUM	11'-6"	3/4"	8 3/4"	3 1/2"	190	1/M4.01	RITTILING	PR	1, 2, 3, 4
RAD-10	CORRIDOR	480	0.5	ALUMINUM	11'-6"	3/4"	8 3/4"	3 1/2"	190	1/M4.01	RITTILING	PR	1, 2, 3, 4
RAD-11	CORRIDOR	480	0.5	ALUMINUM	11'-6"	3/4"	8 3/4"	3 1/2"	190	1/M4.01	RITTILING	PR	1, 2, 3, 4
RAD-12	CORRIDOR	480	0.5	ALUMINUM	11'-6"	3/4"	8 3/4"	3 1/2"	190	1/M4.01	RITTILING	PR	1, 2, 3, 4
RAD-13	CORRIDOR	480	0.5	ALUMINUM	11'-6"	3/4"	8 3/4"	3 1/2"	190	1/M4.01	RITTILING	PR	1, 2, 3, 4
RAD-14	CORRIDOR	480	0.5	ALUMINUM	7'-0"	3/4"	8 3/4"	3 1/2"	190	1/M4.01	RITTILING	PR	1, 2, 3, 4

LINEAR DIFFUSER SCHEDULE

NOTES:
1.CONTRACTOR SHALL DETERMINE PROPER MARGIN STYLE TO MATCH CEILING CONSTRUCTION.
2.PROVIDE WITH CONCEALED FASTENERS
3.DIFFUSERS WITH MULTIPLE SLOTS SHALL HAVE THE INNER MOST SLOT DIRECTED TOWARDS THE INTERIOR OF THE BUILDING, THE REMAINING SHALL BE DIRECTED TOWARDS THE EXTERIOR UNLESS NOTED OTHERWISE.

TAG NAME	MATERIAL	SLOT WIDTH	NO. OF SLOTS	WIDTH	LENGTH	PLENUM REQUIRED	PLENUM INSULATION TYPE	PLENUM INLET SIZE	PATTERN CONTROL REQUIRED	BALANCING DAMPER REQUIRED	FINISH	MANUFACTURER	MODEL	NOTES
LD-1	STEEL	1 1/2"	4	10"	2'-0"	Yes	WRAPPED	SEE DWG.	Yes	Yes	WHITE	TITUS	TBD-80	NOTE 1, 2, & 3
LD-2	ALUMINUM	2"	1	6 1/4"	4'-0"	Yes	LINED	SEE DWG.	Yes	Yes	WHITE	TITUS	FL-HT	NOTE 1, 2, & 3
LD-3	ALUMINUM	2'-0"	2	10'-0"	4'-0"	Yes	LINED	SEE DWG.	Yes	Yes	WHITE	TITUS	FL-20	NOTE 1, 2, & 3
LDR-1	ALUMINUM	1/2"	6	1'-4"	8'-0"	No	N/A	N/A	No	No	WHITE	TITUS	CT-540	NOTE 1 & 2


AIR TERMINAL SCHEDULE

NOTES:
1.CONTRACTOR SHALL DETERMINE PROPER BORDER TYPE TO MATCH CEILING CONSTRUCTION
2.REFER TO DRAWINGS FOR NECK SIZE. ALL BRANCH DUCTWORK TO AIR TERMINALS SHALL BE NECK SIZE UNLESS NOTED OTHERWISE.

TAG NAME	FACE SIZE (IN.) (NOTE 2)	TYPE	BORDER (NOTE 1)	MATERIAL	FINISH	VOLUME DAMPER REQUIRED	MANUFACTURER	MODEL	NOTES
CD-1	24x24	PLAQUE	LAY-IN	STEEL	WHITE	NO	TITUS	OMNI	NOTE 1 & 2
EG-1	SEE DWG	35 DEGREE DEFLECTION	SURFACE MOUNT	STEEL	WHITE	NO	TITUS	350	LONG BLADES
RG-1	24x24	PERFORATED	LAY-IN	STEEL	WHITE	NO	TITUS	PAR	NOTE 1 & 2
RG-2	SEE DWG	35 DEGREE DEFLECTION	LAY-IN	ALUMINUM	WHITE	NO	TITUS	350RL	LONG BLADES

GAS REGULATOR SCHEDULE

TAG NAME	DESCRIPTION	MANUFACTURER AND MODEL
GR-1	GAS PRESSURE REGULATOR - CAST IRON BODY, INTERNAL PRESSURE RELIEF, THREADED CONNECTIONS, ADJUSTABLE PRESSURE SETTING, TIGHT SHUTOFF. 2 PSI INLET PRESSURE, 11" WC OUTLET PRESSURE, 400 CFH CAPACITY, MINIMUM CONTROLLABLE FLOW OF CFH 40	FISHER (S200 SERIES) OR EQUAL BY ITRON, SENSUS OR MAXITROL
GR-2	GAS PRESSURE REGULATOR - CAST IRON BODY, INTERNAL PRESSURE RELIEF, THREADED CONNECTIONS, ADJUSTABLE PRESSURE SETTING, TIGHT SHUTOFF. 2 PSI INLET PRESSURE, 11" WC OUTLET PRESSURE, 250 CFH CAPACITY, MINIMUM CONTROLLABLE FLOW OF CFH 25	FISHER (S200 SERIES) OR EQUAL BY ITRON, SENSUS OR MAXITROL



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PROJECT #202505446-00



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DKA PROJECT NO: 24-027

KEY PLAN:

SHEET STATUS: 05/16/2025
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SHEET TITLE:
HVAC SCHEDULES

SHEET NUMBER:

M5.00

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1. THE SYMBOLS AND THE MATERIAL LIST ARE FOR THE CONVENIENCE OF THE CONTRACTOR TO IDENTIFY THE MATERIALS REQUIRED. THE MATERIALS LISTED ARE THE MATERIALS REQUIRED FOR FULLY OPERATING SYSTEM. WHEN SPECIFIED OR CATALOG NUMBERS SHALL NOT BE CONSIDERED COMPLETE, BUT ARE GIVEN AS AN AID TO IDENTIFY THE MATERIALS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR A COMPLETE DESCRIPTION OF MATERIAL ON THESE DRAWINGS AND IN THE SPECIFICATIONS BEFORE ORDERING. THE DESCRIPTION OF THE MATERIAL TAKES THE FORM OF THE FOLLOWING: TYPE, SIZE, MANUFACTURER, FINISH, AND THE BASIS OF DESIGN.
2. THE CONTRACTOR SHALL VERIFY THAT FIXTURES SUPPLIED ARE APPROVED BY ALL APPLICABLE STATE, LOCAL AND GOVERNING AUTHORITIES.
3. ALL FIXTURES SHALL CONFORM TO FEDERAL A.C.S. 3.074
4. ALL FIXTURES SHALL BE THE SAME TYPE, SIZES, INVERT ELEVATIONS, AND LOCATIONS PRIOR TO BEGINNING ANY WORK.
5. REFER TO THE DRAWING THROUGH-IN SCHEDULE FOR THE SIZES OF BRANCH PIPES TO PLUMBING FIXTURES.

1. DRAWINGS SHOWING LOCATIONS OF EQUIPMENT, DUCTWORK, PIPING, ETC. ARE DIAGRAMMATIC AND MAY NOT ALWAYS REFLECT EXACT INSTALLATION CONDITIONS. CONTRACTOR SHALL SHOW THE CREATION OF ALL EQUIPMENT, PIPING, ETC. AND SHALL NOT INCLUDE ALL OFFSETS AND FITTINGS REQUIRED FOR COMPLETE INSTALLATION. THE DRAWINGS SHALL BE FOLLOWED AS CLOSELY AS ACTUAL BUILDING CONDITIONS PERMIT.
2. CATALOG AND MODEL NUMBERS SHALL NOT BE CONSIDERED COMPLETE, BUT ARE GIVEN AS AN AID TO THE CONTRACTOR AND TO INDICATE THE QUALITY REQUIRED. CONTRACTOR SHALL BE RESPONSIBLE FOR THE COMPLETE DETAILED MATERIALS SCHEDULE, INCLUDING DRAWINGS AND IN THE FIELD BEFORE ORDER. THE SELECTION OF THE MATERIAL AND SCHEDULED PERFORMANCE TAKES PRECEDENCE OVER THE MODEL NUMBER. THE FIRST MATERIAL SUBMITTED SHALL BE THE BASIS FOR DESIGN.
3. EXISTING EQUIPMENT QUANTITIES AND MATERIALS ARE BASED ON RECORDS THAT MAY BE MADE BY THE CONTRACTOR FROM THE DOCUMENTS. WHERE THE MATERIAL AND/OR QUANTITY DISCREPANCY ARISE, BETWEEN DRAWINGS, SCHEDULES AND/OR SPECIFICATIONS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CORRECTION.
4. DO NOT SCALE DRAWINGS. VERIFY ALL DIMENSIONS AND CLEARANCES FROM ARCHITECTURAL, STRUCTURAL, SUBMITTALS, AND OTHER APPROPRIATE DRAWINGS OR SPECIFICATIONS. VERIFY ALL SITE REQUIREMENTS AND CONDITIONS.
5. COORDINATE ALL WORK WITH ALL OTHER TRADES PRIOR TO INSTALLATION TO PROVIDE CLEARANCES REQUIRED FOR OPERATION, MAINTENANCE, CODE COMPLIANCE, AND TO PREVENT INTERFERENCE. INTERFERENCE RESOLUTION IS ESSENTIAL TO PREVENT VERIFICATION OF NECESSARY CLEARANCES FOR ALL TRADES. BRING ANY INTERFERENCES OR CONFLICTS TO THE ATTENTION OF THE ARCHITECT/ENGINEER BEFORE PROCEEDING TO INSTALLATION.
6. REVIEW SPACE REQUIREMENTS OF EQUIPMENT SPECIFIED OR SUBSTITUTED AND MAKE REASONABLE ACCOMMODATIONS IN LAYOUT AND POSITIONING TO PROVIDE PROPER ACCESS.
7. ANY CHANGES REQUIRED TO ELIMINATE CONFLICTS OR THAT RESULT FROM A FAILURE TO COORDINATE SHALL BE MADE BY THE CONTRACTOR WITHOUT ADDITIONAL COST OR DELAY TO THE OTHER TRADES.
8. EACH CONTRACTOR IS RESPONSIBLE FOR DAMAGE CAUSED BY THEIR ACTIONS TO WALLS, FLOORS, CEILINGS, AND ROOFING. THE CONTRACTOR WHOM WORK DAMAGES DAMAGE IS RESPONSIBLE FOR PATCHING TO MATCH ORIGINAL CONSTRUCTION, FIRE RATINGS, AND FINISH.
9. IN AREAS WITH DRYWALL CEILINGS COORDINATE LOCATIONS OF ACCESS PANELS WITH THE PARTITIONING CONTRACTOR. COORDINATE THE LOCATION OF THE ACCESS PANELS WITH PANEL TYPE AND COLOR WITH ARCHITECT. NOTIFY THE GC OF THE REQUIRED ACCESS PANELS PRIOR TO BIDDING.
10. PENETRATIONS AND WALL PENETRATIONS AIRTIGHT WHERE CONDUITS, PIPING, AND DUCTS PENETRATE.
11. CAULK ALL PIPE AND DUCT PENETRATIONS OF FULL HEIGHT NON-FIRE RATED WALL. PARTITIONING CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROPER FIRE RATED WALL TRANSMISSION FROM ONE ROOM TO ANOTHER AND TO PROVIDE THE DESIRED NC LEVELS WITHIN ROOMS.
12. DO NOT BLOCK TUBE PULL OR EQUIPMENT SERVICE CLEARANCES.
13. MAINTAIN A MINIMUM WORKING CLEARANCE OF 3'-6" IN FRONT OF ALL ELECTRICAL EQUIPMENT REQUIRING MAINTENANCE, INSPECTION, AND TESTING INCLUDING BUT NOT LIMITED TO PANELS, DISCONNECTS, TRANSFORMERS, MOTOR CONTROLS, TRANSFORMERS, EQUIPMENT DISCONNECTS AND STARTERS.
14. MAINTAIN THE DEDICATED ELECTRICAL EQUIPMENT SPACE DEFINED BY THE WIDTH / DEPTH OF THE EQUIPMENT. THE EQUIPMENT SHALL BE MAINTAINED AT THE SAME LEVEL AS THE EQUIPMENT OR THE STRUCTURAL CEILING, WHICHEVER IS LOWER. SYSTEMS FOREIGN TO THE ELECTRICAL DISTRIBUTION SYSTEM ARE NOT ALLOWED IN THE DEDICATED EQUIPMENT SPACE INCLUDING:
15. DO NOT EXCEED 25 LBS PER HANGER AND A MINIMUM SPACING OF 2'-0" ON CENTER WHEN ATTACHING TO METAL ROOF DECKING (LIMITATION NOT REQUIRED WITH CONCRETE ON ROOF). THIS INCLUDES ALL HANGERS, BRACKETS, AND SUPPORTS FOR ELECTRICAL AND ARCHITECTURAL ITEMS HANGING FROM DECK. IF THE HANGER RESTRICTIONS CANNOT BE ACHIEVED, SUPPLEMENTAL FRAMING OFF STEEL FRAMING SHALL BE ADDED. ANCHORS AND BRACKETS FOR CONCRETE SHALL BE CRACKED CONCRETE ABOVE IN ACCORDANCE WITH SPECIFICATIONS.

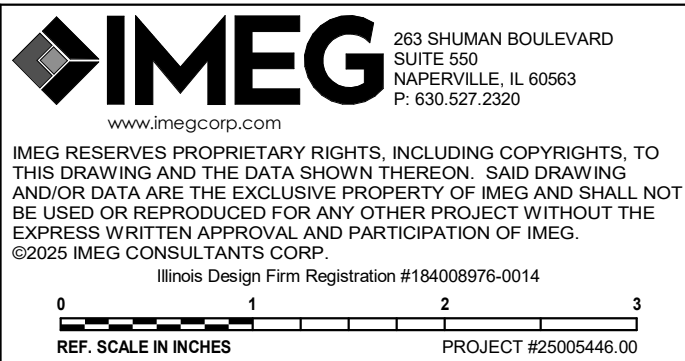
CONTRACTOR ABBREVIATION KEY	
ABBR:	DESCRIPTION:
E.C.	ELECTRICAL CONTRACTOR
M.C.	MECHANICAL CONTRACTOR
T.C.C.	TEMPERATURE CONTROLS CONTRACTOR
A.V.C.	AUDIO VISUAL CONTRACTOR
T.C.	TECHNOLOGY CONTRACTOR

PLUMBING ABBREVIATION KEY	
ABBR:	DESCRIPTION:
CO	CLEANOUT
FCO	FLOOR CLEANOUT
RD	ROOF DRAIN
TYP	TYPICAL
YCO	YARD CLEANOUT

PLUMBING SHEET INDEX	
P0.00	PLUMBING COVERSHEET
P01.00	UNDERFLOOR DEMOLITION - PLUMBING - EVENT SPACE
P01.01	FLOOR PLAN DEMOLITION - PLUMBING - EVENT SPACE
P1.00	UNDERFLOOR - PLUMBING - EVENT SPACE
P1.01	FLOOR PLAN - PLUMBING - EVENT SPACE
P1.02	ROOF PLAN - PLUMBING
P2.00	PLUMBING DETAILS
GRAND TOTAL: 7	

PIPE INSULATION SCHEDULE (PLUMBING)							
GENERAL NOTES							
1. REFER TO THE SPECIFICATIONS FOR TYPE DESCRIPTIONS AND JACKETING REQUIREMENTS.							
2. TYPE A INSULATION IS NOT ALLOWED IN NON-AIR CONDITIONED SPACES, SUCH AS MECHANICAL ROOMS, EXTERIOR, ATTICS, ETC.							
3. PROVIDE INSIDENT IN AIR SPACES, EITHER PIPE OR TYPE C INSULATION (REFER TO PIPE HANGER AND SUPPORTS SPECIFICATIONS) OR TYPE C INSULATION. SEE SPEC. FOR MORE DETAILS.							
4. DIRECT BURIED PIPING SHALL ONLY USE TYPE C OR TYPE E. REDUCTION IN THICKNESS FOR DIRECT BURED PIPING IS ALLOWED PER ASHRAE / IECC AS APPLICABLE.							
SYMBOL	PIPE SYSTEM	INSULATION TYPE	INSULATION THICKNESS PER NOMINAL PIPE OR TUBE SIZE				NOTES
			< 1"	1" TO < 1.5"	1.5" TO < 4"	4" TO < 8"	
22 PLUMBING - STORM							
ST	STORM DRAINAGE	A (GisFbr)	1/2"	1/2"	1"	1"	APPLY INSULATION TO ALL PIPES AND DRAIN BODIES
STS	STORM DRAINAGE - SECONDARY	A (GisFbr)	1/2"	1/2"	1"	1"	APPLY INSULATION TO ALL PIPES AND DRAIN BODIES

P0.00





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KEY PLAN:

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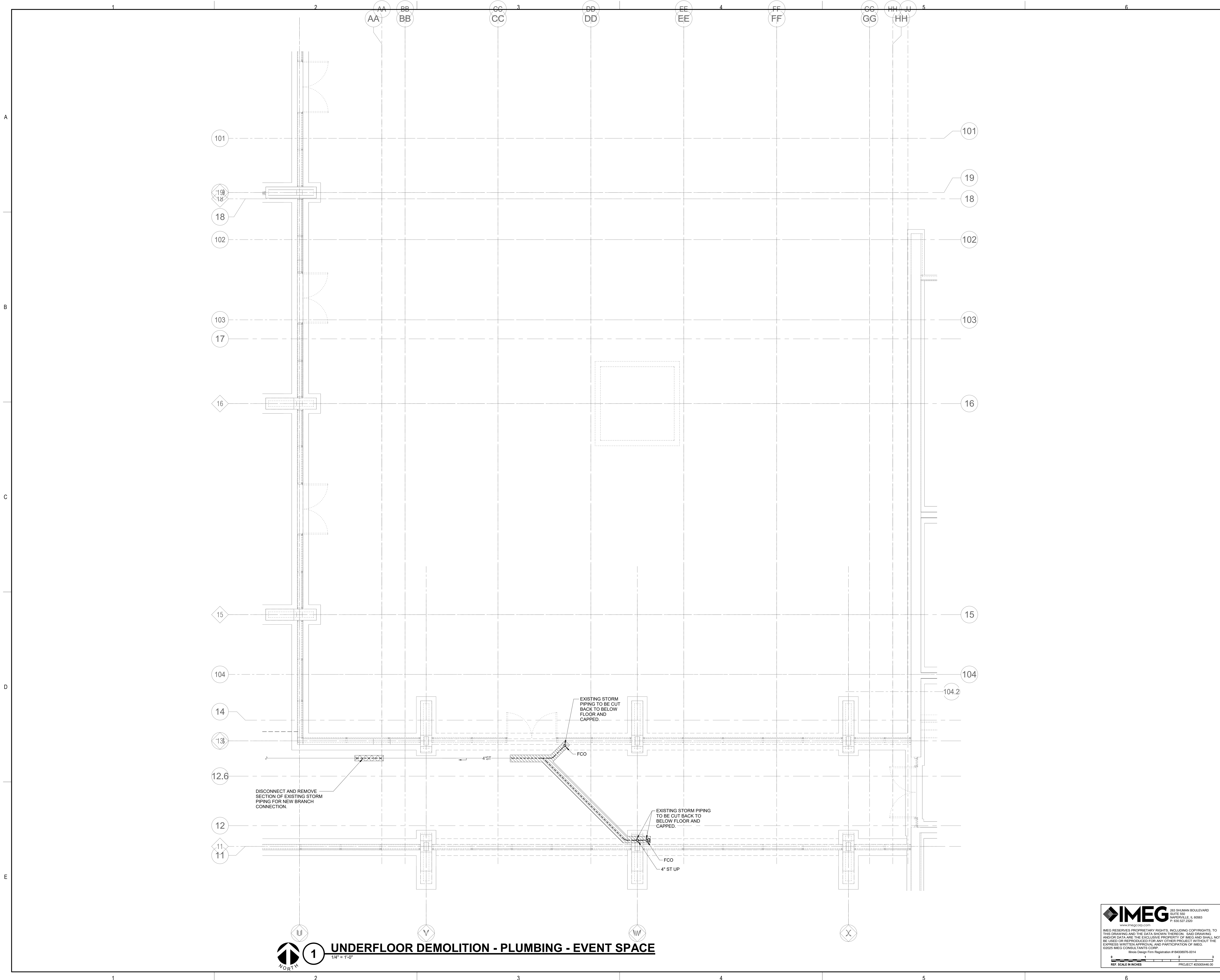
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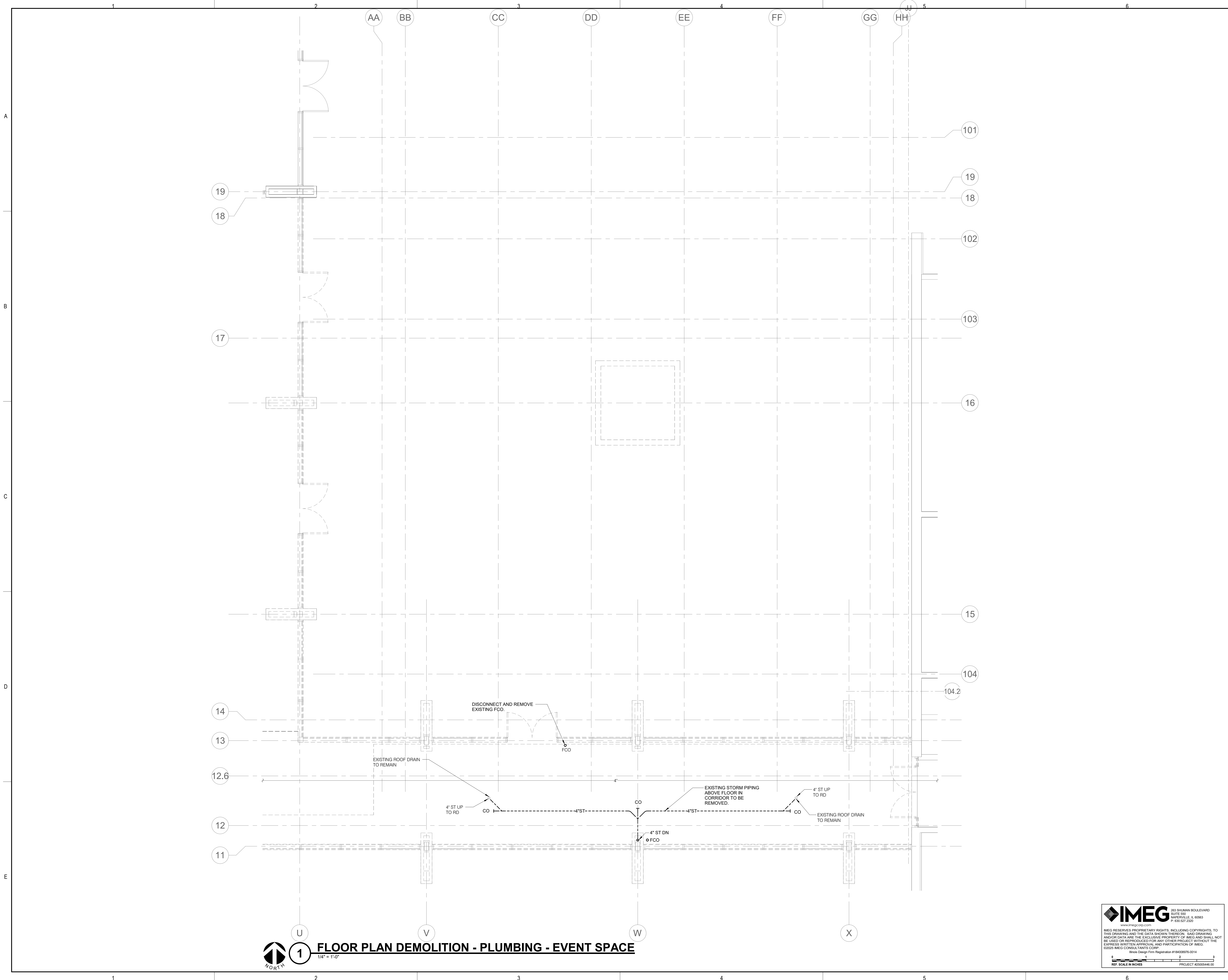
**UNDERFLOOR
DEMOLITION -
PLUMBING - EVENT
SPACE**

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PD1.00

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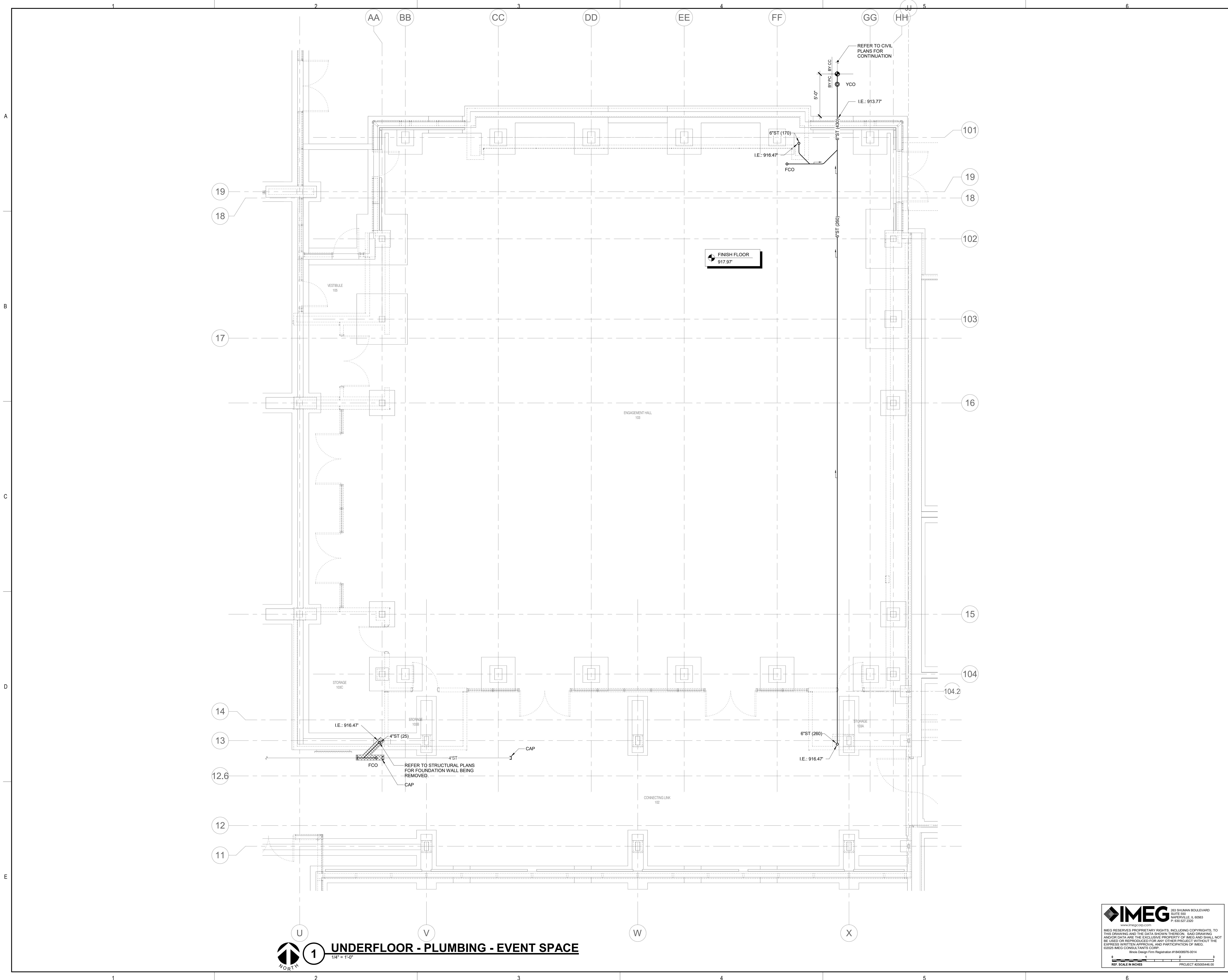
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SHEET TITLE:
**FLOOR PLAN
DEMOLITION -
PLUMBING - EVENT
SPACE**

SHEET NUMBER:

PD1.01



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SHEET TITLE:
UNDERFLOOR - PLUMBING - EVENT SPACE

SHEET NUMBER:

P1.00

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0 1 2 3

1/4" = 1'-0"



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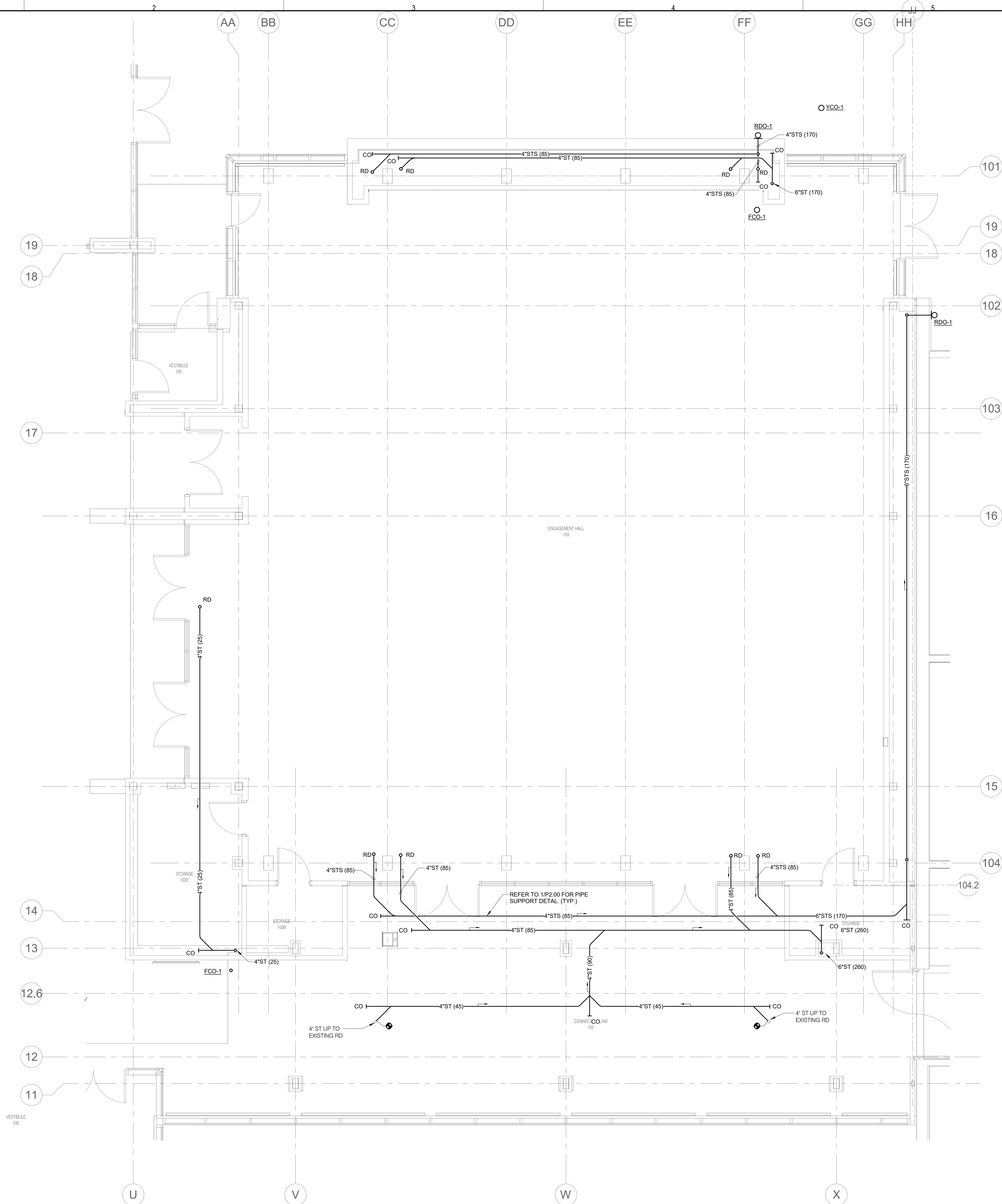
NO.	DESCRIPTION:	DATE:

SHEET TITLE:
FLOOR PLAN - PLUMBING - EVENT SPACE

SHEET NUMBER:

P1.01

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1 FLOOR PLAN - PLUMBING - EVENT SPACE

1/4" = 1'-0"

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DKA PROJECT NO: 24-027

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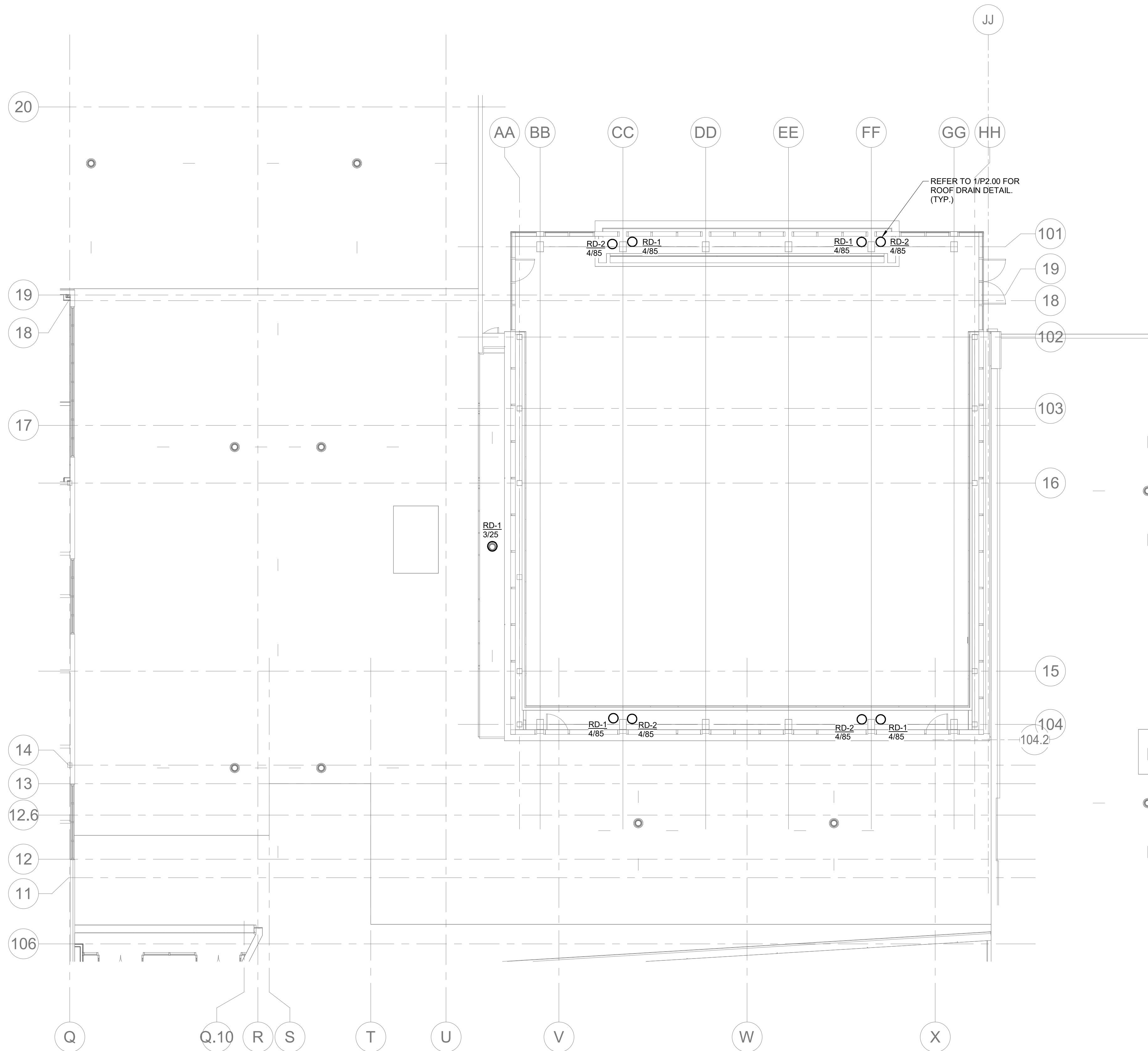
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SHEET TITLE:
**ROOF PLAN -
PLUMBING**

SHEET NUMBER:

P1.02

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1 ROOF PLAN - PLUMBING
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DKA PROJECT NO: 24-027

KEY PLAN:

SHEET STATUS: 05/16/2025
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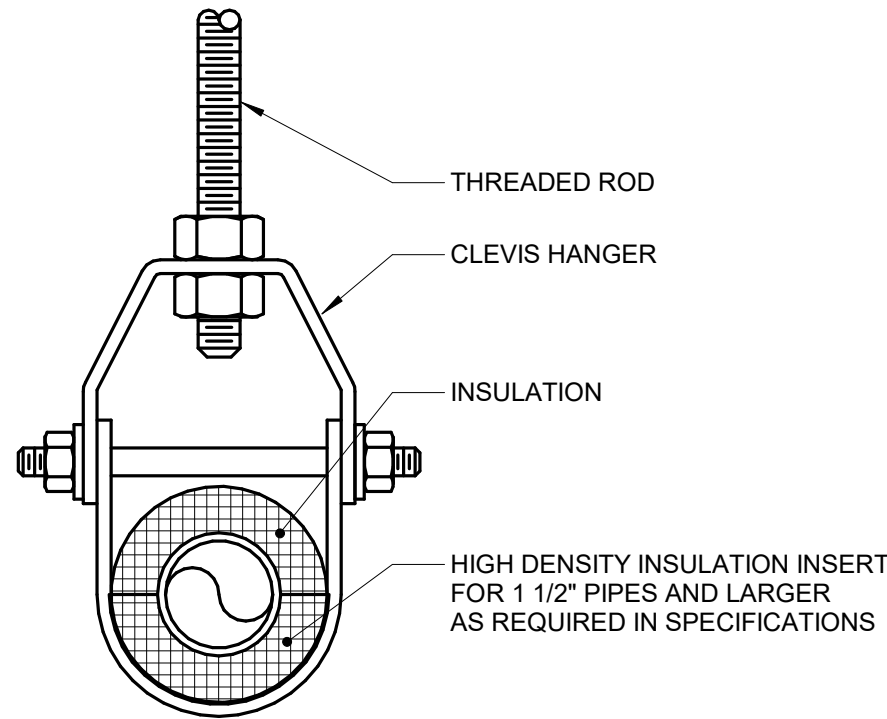
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SHEET TITLE:
PLUMBING DETAILS

SHEET NUMBER:

P2.00

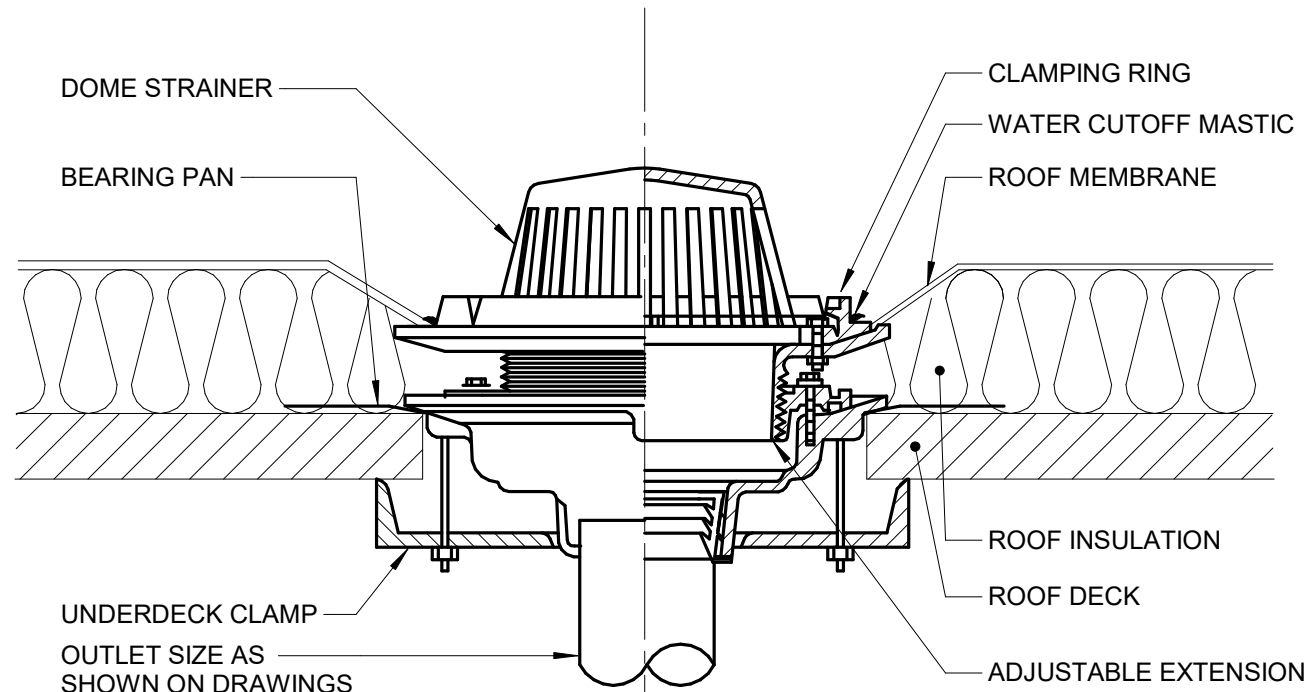
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INSULATED COLD PIPE HANGER


- NOTES:
- REFER TO SPECIFICATION SECTIONS 22 05 29 & 22 07 19.

1 PIPE SUPPORT DETAIL
NO SCALE



2 ROOF DRAIN
NO SCALE

PLUMBING MATERIAL LIST		
TAG NAME	DESCRIPTION	MANUFACTURER AND MODEL
FCO-1	FLOOR CLEANOUT - ADJUSTABLE. CAST IRON HOUSING, ANCHOR FLANGE, TAPERED THREAD PLUG, SECURED NICKEL BRONZE TOP. TOP STYLE SHALL MATCH FLOOR FINISH AS FOLLOWS: TOP - ROUND TOP WITH CARPET MARKER.	ACCEPTABLE MANUFACTURERS: ZURN (Z1400), JOSAM(55000), MIFAB (C1100), SMITH (4000), WADE (6000), WATTS (CO-200)
RD-1	ROOF DRAIN - CAST IRON BODY, SECURED CAST IRON DOME, 15" ROUND, BOTTOM OUTLET, FLASHING CLAMP, GRAVEL STOP, UNDERDECK CLAMP, BEARING PAN, ADJUSTABLE EXTENSION TO MATCH INSULATION THICKNESS, OUTLET SIZE AS LISTED ON DRAWINGS.	ZURN (Z-100 SERIES), SMITH (1010), WADE (3000), JOSAM (21500), WATTS (RD-300), MIFAB (R1200), SIOUX CHIEF (868-52CS)
RD-2	ROOF DRAIN - CAST IRON BODY, SECURED CAST IRON DOME, 15" ROUND, BOTTOM OUTLET, FLASHING CLAMP, GRAVEL STOP, UNDERDECK CLAMP, BEARING PAN, EXTENSION TO MATCH INSULATION THICKNESS, 4" TALL EXTERNAL WATER DAM, OUTLET SIZE AS LISTED ON DRAWINGS.	ZURN (Z-100 SERIES), SMITH (1010), WADE (3000), JOSAM (21500), WATTS (RD-300), MIFAB (R1200), SIOUX CHIEF (868-52CS)
RDO-1	ROOF DRAIN OUTLET - LAMBS TONGUE DOWNSPOUT NOZZLE, BRONZE BODY, INTEGRAL ANCHORING FLANGE, NO-HUB PIPE CONNECTION TYPE, OUTLET SIZE AS LISTED ON DRAWINGS.	ZURN (Z-199), SMITH (1770), WADE (3940), JOSAM (25010), WATTS (RD-940), SUN (RD4500)
YCO-1	YARD CLEANOUT - ROUND, DURA-COATED CAST IRON, SIZE AS LISTED ON DRAWINGS, DOUBLE FLANGED HOUSING, HEAVY DUTY SECURED SCORIATED DURA-COATED CAST IRON COVER, LIFTING DEVICE, BRONZE CLEANOUT PLUG WITH GAS/WATER-TIGHT SEAL.	ZURN (Z1474), SMITH (4261), WADE (8401), JOSAM (58680), WATTS (CO-300-MF), MIFAB (C1300-MF)



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PROJECT #202505446-00

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INCHES

0 1 2 3
FEET



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DKA PROJECT NO. 24-027

KEY PLAN

SHEET STATUS: 05/16/2025

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NO: DESCRIPTION: DATE:

SHEET TITLE:

FIRE PROTECTION COVERSHEET

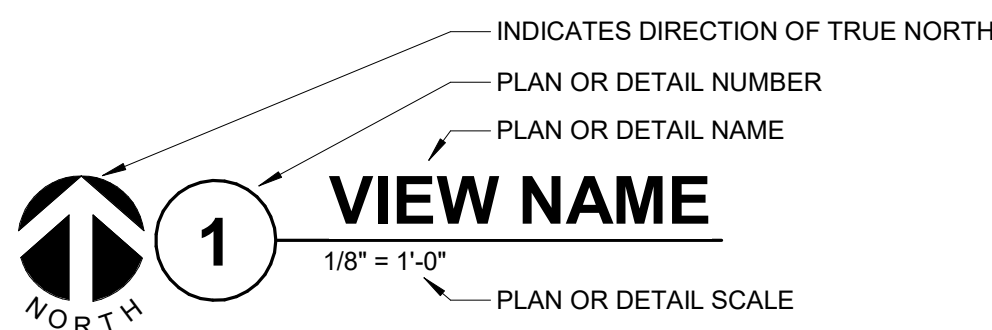
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VIEW KEY

1 — KEYNOTE: INDICATES NOTE USED TO DESCRIBE ADDITIONAL INFORMATION ABOUT WORK REQUIRED, SPECIFIC TO THE SHEET AND/OR DETAIL



VIEW NAME

1/8" = 1'-0"
PLAN OR DETAIL SCALE

LINE TYPE AND TAG KEY:










NEW WORK BY THIS CONTRACTOR
(DARK SOLID LINE)

NEW WORK BY OTHERS
(LIGHT COLD LINE)

— — — — — EQUIPMENT CLEARANCE
(DASHED LINE)

FIRE PROTECTION SYMBOL LIST

NOT ALL SYMBOLS MAY APPLY

SYMBOL:	DESCRIPTION:
	FIRE PROTECTION
	PIPE CAP
	PIPE DOWN
	PIPE UP OR UP/DOWN
	DIRECTION OF FLOW IN PIPE
	AREA BOUNDARY
	NO HATCH
	LIGHT HAZARD
	ORDINARY GROUP 1

FIRE / SMOKE BARRIER DESIGNATIONS

FIRE AND SMOKE SEPERATIONS ARE NOT SHOWN ON THESE DOCUMENTS. CONTRACTOR SHALL REVIEW THE ARCHITECTURAL PLANS AND DETERMINE THE LOCATION OF ALL FIRE AND SMOKE PARTITION, BARRIERS, AND WALLS. THIS INCLUDES FLOOR RATINGS. PRICING SHALL INCLUDE ALL MATERIALS AND LABOR REQUIRED TO MAINTAIN THE RATINGS OF ALL RATED SEPERATIONS, WHETHER SHOWN ON THE ENGINEERING PLANS OR NOT.

MECHANICAL GENERAL NOTES:

1. THE SYMBOLS AND THE MATERIAL LIST ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL PROVIDE QUANTITIES FOR ALL MATERIALS REQUIRED FOR FULLY OPERATIONAL SYSTEMS, WHETHER SPECIFIED OR NOT.
2. CATALOG NUMBERS SHALL NOT BE CONSIDERED COMPLETE, BUT ARE GIVEN AS AN AID TO THE CONTRACTOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLETE DESCRIPTION OF MATERIAL ON THESE DRAWINGS AND IN THE SPECIFICATIONS BEFORE ORDERING. THE DESCRIPTION OF THE MATERIAL SHALL BE BASED ON THE SPECIFICATIONS OF THE FIRST MANUFACTURER IS THE BASIS OF DESIGN.
3. CENTER SPRINKLERS IN CEILING TIES IN BOTH DIRECTIONS IN ALL AREAS. IN AREAS WITH 24" CEILING, CENTERING USING 24"X24" CEILING PANELS IS ACCEPTABLE. SPRINKLER HEADS SHALL BE ALIGNED WITH OTHER SPRINKLER HEADS, LIGHTING, DIFFUSERS, AND ANY OTHER FEATURES IN THE CEILING.
4. NO SPRINKLERS SHALL BE INSTALLED IN THE CEILING UNLESS OTHERWISE NOTED. CONTRACTOR SHALL NOT MIX STANDARD RESPONSE SPRINKLERS WITH QUICK RESPONSE SPRINKLERS IN UNPARTITIONED SPACES.
5. PROVIDE COVERAGE ABOVE AND BELOW ALL EXPOSED DUCTWORK GREATER THAN 48" WIDE.
6. PROVIDE COVERAGE ABOVE (IF APPLICABLE) AND BELOW FLOATING CEILINGS, REFER TO ARCHITECT FOR DETAILS.
7. FIRE PROTECTION PIPE ROUTING IS SHOWN FOR GENERAL LAYOUT. DETERMINE EXACT NUMBER OF SPRINKLERS, PIPE SIZING, AND PIPE ROUTING.
8. THE PROTECTION CONTRACTOR SHALL OBTAIN THE REQUIRED OWNER'S INSURANCE COMPANY STANDARDS WHERE APPLICABLE. THE MORE STRINGENT OF THE OWNER'S INSURANCE UNDERWRITER'S DESIGN CRITERIA AND THE NFPA STANDARDS SHALL BE USED.
9. ALL BUILDING AREA SHALL BE FULLY SPRINKLERED INCLUDING CANOPIES, WALKWAYS, OVERHANGS, SOFFITS, AND BUILDING PROJECTIONS. ALL ACCESSIBLE COMBUSTIBLE CONCEALED SPACES SHALL BE FULLY SPRINKLERED. ALL SPRINKLERED AREAS, INCLUDING ASSEMBLY SHALL INCLUDE CHECK VALVE, FLOW BUTTERFLY, CHECK VALVE, INDICATING "OPEN" OR "CLOSED" POSITION, TEST INSPECTION VALVE, FLOW SWITCH AND PRESSURE GAUGE.
10. PROVIDE RISER ROOM IDENTIFICATION SIGNAGE OUTSIDE THE FIRE RISER ROOM. COORDINATE EXACT SIGN LANGUAGE WITH AHJ.
11. WHERE FEASIBLE INSTALL PIPES HIGH AS POSSIBLE TO AVOID CONFLICT WITH OTHER DISCIPLINES.
12. INSTALL SYSTEM DRAINS AT LOW POCKET AREAS CONTAINING FIVE GALLONS OF WATER OR MORE, PROVIDE WITH ISOLATION VALVE AND THREADED HOSE CONNECTION.
13. MAIN PIPING PASSING BELOW SKYLIGHTS OR CLERESTORIES ARE NOT PERMITTED.
14. FOLLOW STRUCTURAL REQUIREMENTS FOR PENETRATIONS THROUGH EXISTING STRUCTURAL ELEMENTS. ALTERNATE DESIGNS WILL NEED TO BE APPROVED THROUGH THE STRUCTURAL ENGINEER.
15. FIRE RISK LOCATION, TYPE AND FINISH SHALL BE REVIEWED AND APPROVED BY THE ARCHITECT.
16. EXACT LOCATION OF THE ALL PANELS SHALL BE VERIFIED ON SITE AND COORDINATED WITH THE ELECTRICAL CONTRACTOR.
17. PAINT ALL EXPOSED PIPING TO MATCH BACKGROUND OR AS DIRECTED BY THE ARCHITECT.
18. THE OWNER MUST BE NOTIFIED PRIOR TO EACH AND EVERY DRAINING OR RECHARGING OF THE SPRINKLER SYSTEM.
19. THE CONTRACTOR SHALL PREPARE A COORDINATED SET OF SHOP DRAWINGS AND SHALL OBTAIN APPROVAL FROM THE LOCAL JURISDICTION AND THE LOCAL FIRE DEPARTMENT PRIOR TO ANY INSTALLATION.
20. DRAWINGS SHOW LOCATIONS OF EQUIPMENT, DUCTWORK, PIPING, ETC. ARE NOT DIMENSIONAL. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLETE DESCRIPTION OF MATERIAL ON THESE DRAWINGS AND IN THE SPECIFICATIONS BEFORE ORDERING. THE DESCRIPTION OF THE MATERIAL SHALL BE BASED ON THE SPECIFICATIONS OF THE FIRST MANUFACTURER IS THE BASIS OF DESIGN.
21. VERIFY ALL DIMENSIONS AND CLEARANCES FROM ARCHITECTURAL, STRUCTURAL, MECHANICAL, ELECTRICAL, AND PLUMBING. VERIFY PHYSICALLY AT SITE. REVIEW ALL DRAWINGS, INCLUDING THOSE OF OTHER TRADES.

FIRE PROTECTION SHEET INDEX

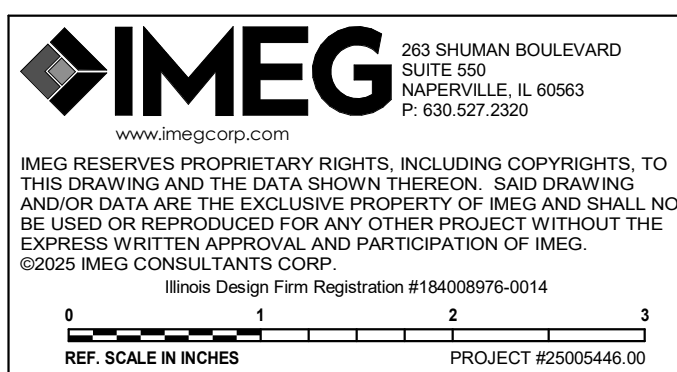
F0.00	FIRE PROTECTION COVERSHEET
FD1.01	FLOOR PLAN DEMOLITION - FIRE PROTECTION
F1.01	FLOOR PLAN - FIRE PROTECTION
F2.00	FIRE PROTECTION DETAILS
GRAND TOTAL: 4	

FIRE SPRINKLER USAGE SCHEDULE (SPK)

NOTES

- 1 SEE FLOOR PLANS FOR ZONING REQUIREMENTS.
- 2 SPRINKLER SHALL HAVE COLOR CODED BULB THERMAL ELEMENT.
- 3 ALL SPRINKLERS SHALL BE UL LISTED.
- 4 CONTRACTOR TO VERIFY SPRINKLER REQUIREMENTS BASED ON ACTUAL INSTALLATION, USAGE, ARCHITECTURAL CEILING PLAN AND NFPA 13 REQUIREMENTS.
- 5 TAG NAME IS PRIMARILY FOR IDENTIFYING SPRINKLERS IN SUBMITTALS. IT MAY OR MAY NOT BE FOUND ELSEWHERE ON THE DRAWINGS. CONTRACTOR TO SUBMIT ALL SPRINKLER TYPES TO BE USED.
- 6 AREAS ARE GENERAL IN NATURE. CONTRACTOR TO MATCH UNSCHEDULED AREAS TO SIMILAR SPACES.
- 7 SPRINKLERS SHALL HAVE A 3min quick RESPONSE BULB.
- 8 SPRINKLERS SPECIFIED WITHIN FIRE SPRINKLER USAGE SCHEDULE ARE STANDARD COVERAGE TYPE. EXTENDED COVERAGE SPRINKLERS ARE PERMITTED PROVIDED SPRINKLER MEET THE REQUIREMENTS OF UL.

AREA (NOTE 1 & 6)		SPRINKLER (NOTE 4 & 5)					MANUFACTURER & MODEL	NOTES
DESCRIPTION	HAZARD	TAG NAME	TYPE	FINISH	RESPONSE	TEMP RATING		
EXPPOSED STRUCTURE WITH OBSTRUCTIONS	SEE PLANS	SPR-1	UPRIGHT	ROUGH BRASS	QUICK	155	VIKING VK, RELIABLE F1FR, TYCO TY-FRB, VICTAULIC VZ704	NOTE 2, 3, 7, 8
FINISHED AREA	AREAS WITH WOODEN CEILING	SPR-2	CONCEALED	CUSTOM COLOR COORDINATE COLOR SELECTION WITH ARCHITECT	QUICK	155	VIKING VK, RELIABLE G4A, TYCO RFII, VICTAULIC V3602	NOTE 2, 3, 7, 8





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KEY PLAN:

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NO.	DESCRIPTION:	DATE:

SHEET TITLE:
**FLOOR PLAN
DEMOLITION - FIRE
PROTECTION**

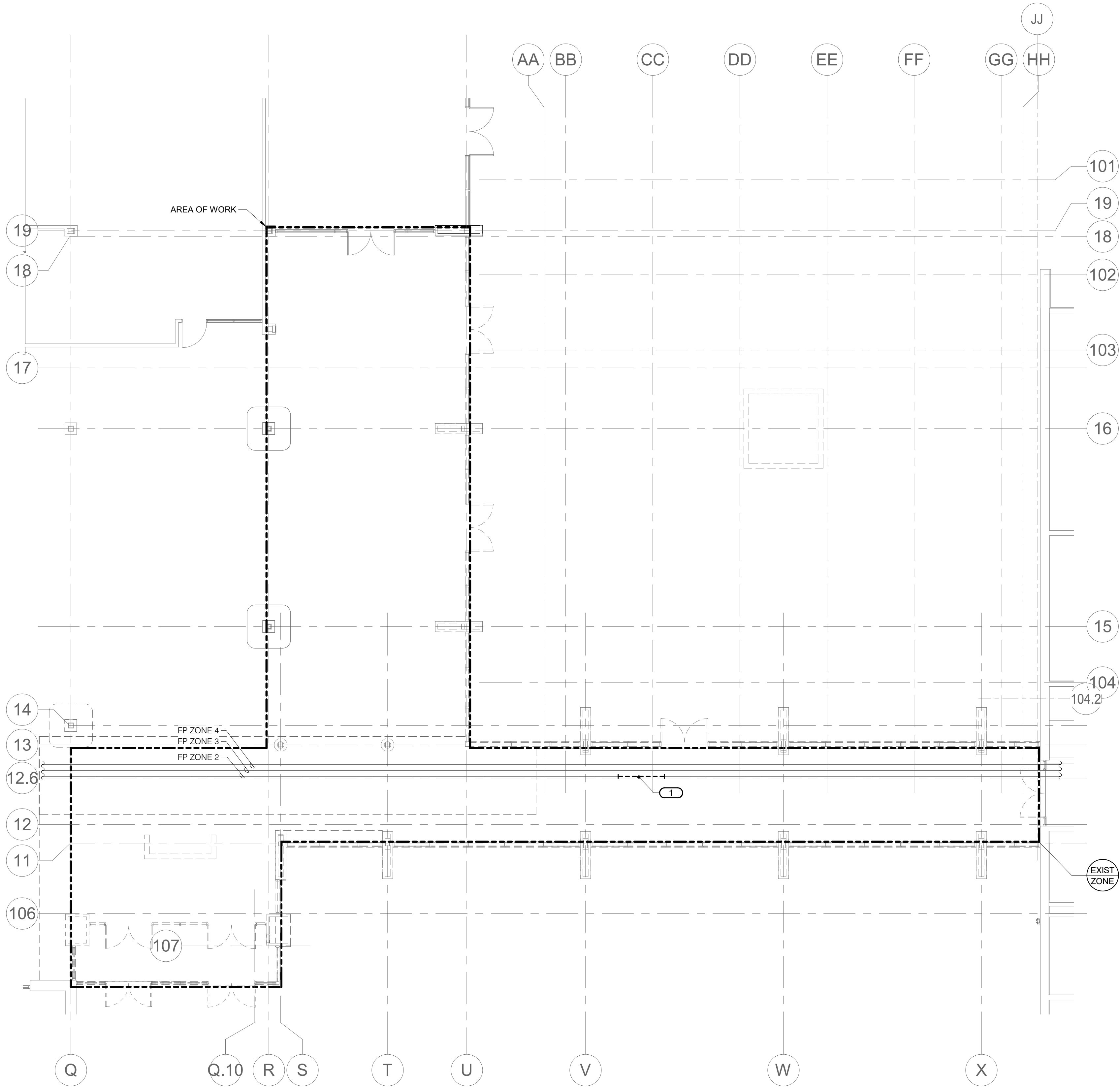
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SHEET NOTES:
1. DISCONNECT AND REMOVE EXISTING SPRINKLER HEADS WHERE CEILING IS CHANGING. REFER TO ARCHITECTURAL CEILING PLANS FOR EXACT LOCATION. PREPARE PIPING FOR NEW CONNECTION.

KEYNOTES:
1. DISCONNECT AND REMOVE SECTION OF FIRE PROTECTION MAIN AS REQUIRED TO INSTALL A NEW BRANCH PIPING TO NEW ADDITION. ADDITION TO BE SERVED FROM EXISTING FIRE ZONE #2.



1 FLOOR PLAN DEMOLITION - FIRE PROTECTION
1/8" = 1'-0"



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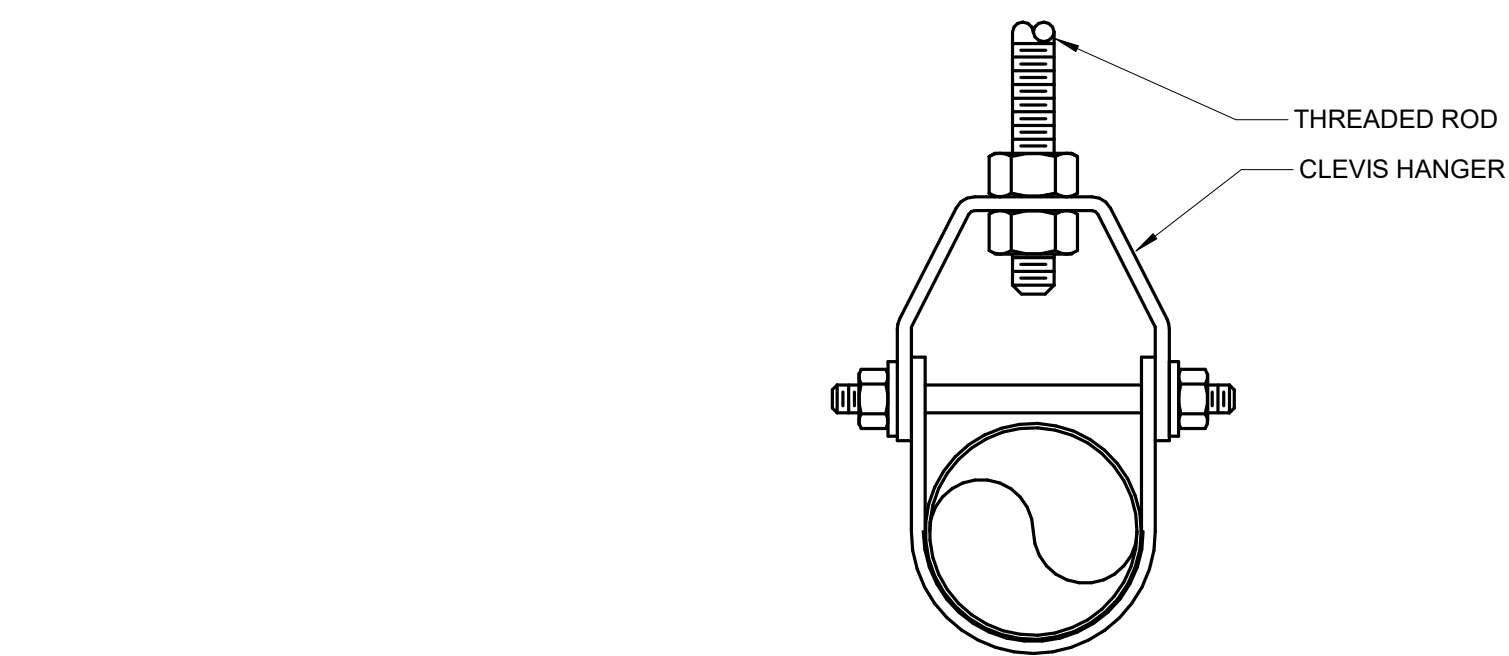
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SHEET TITLE:
**FIRE PROTECTION
DETAILS**

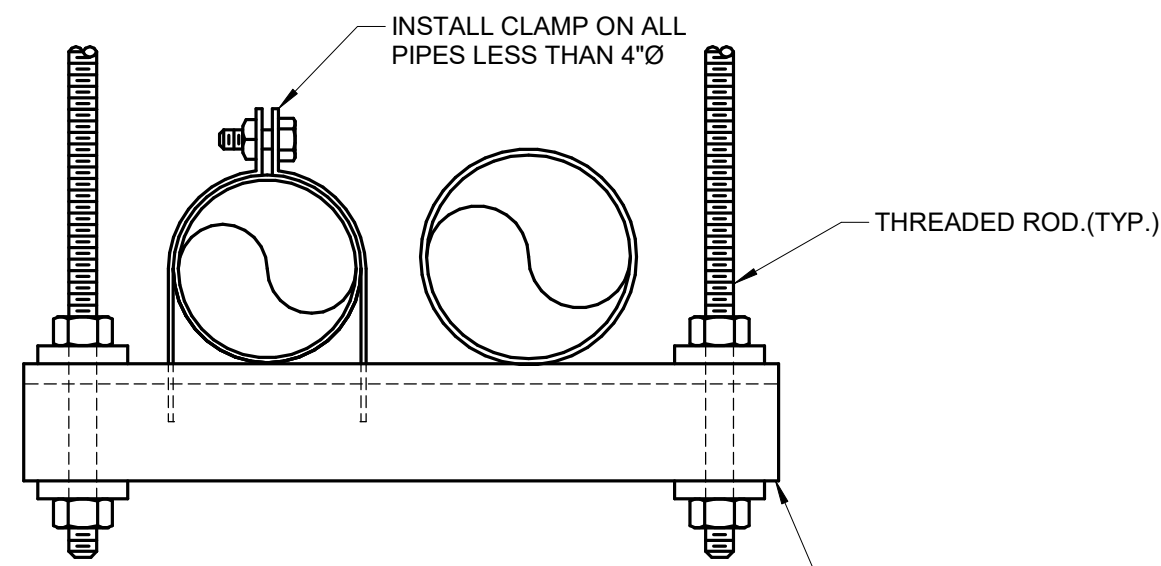
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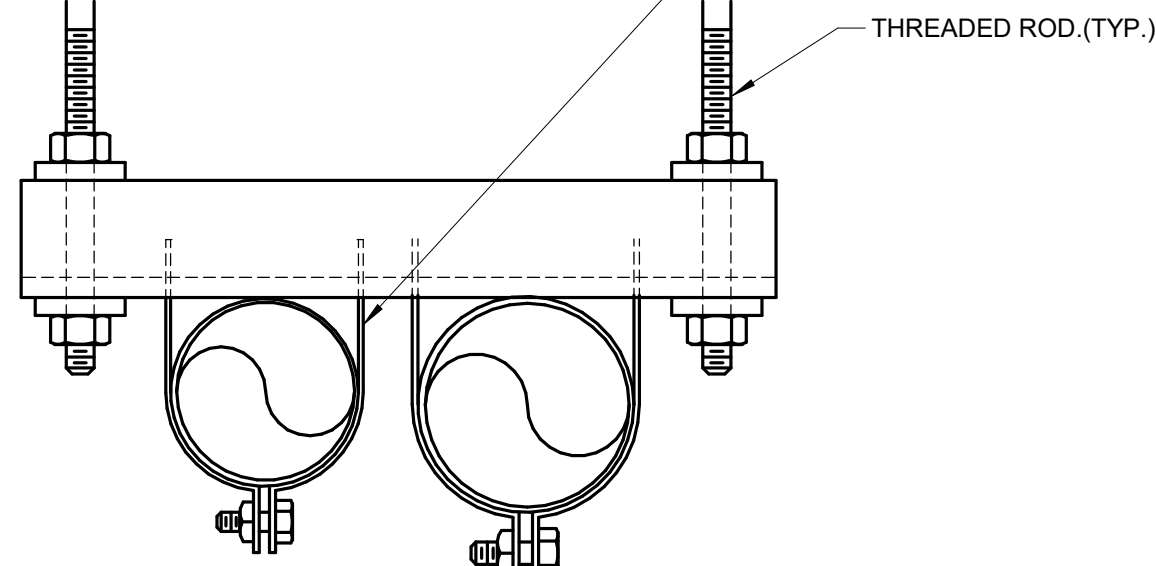
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CLEVIS HANGER



TRAPEZE HANGER

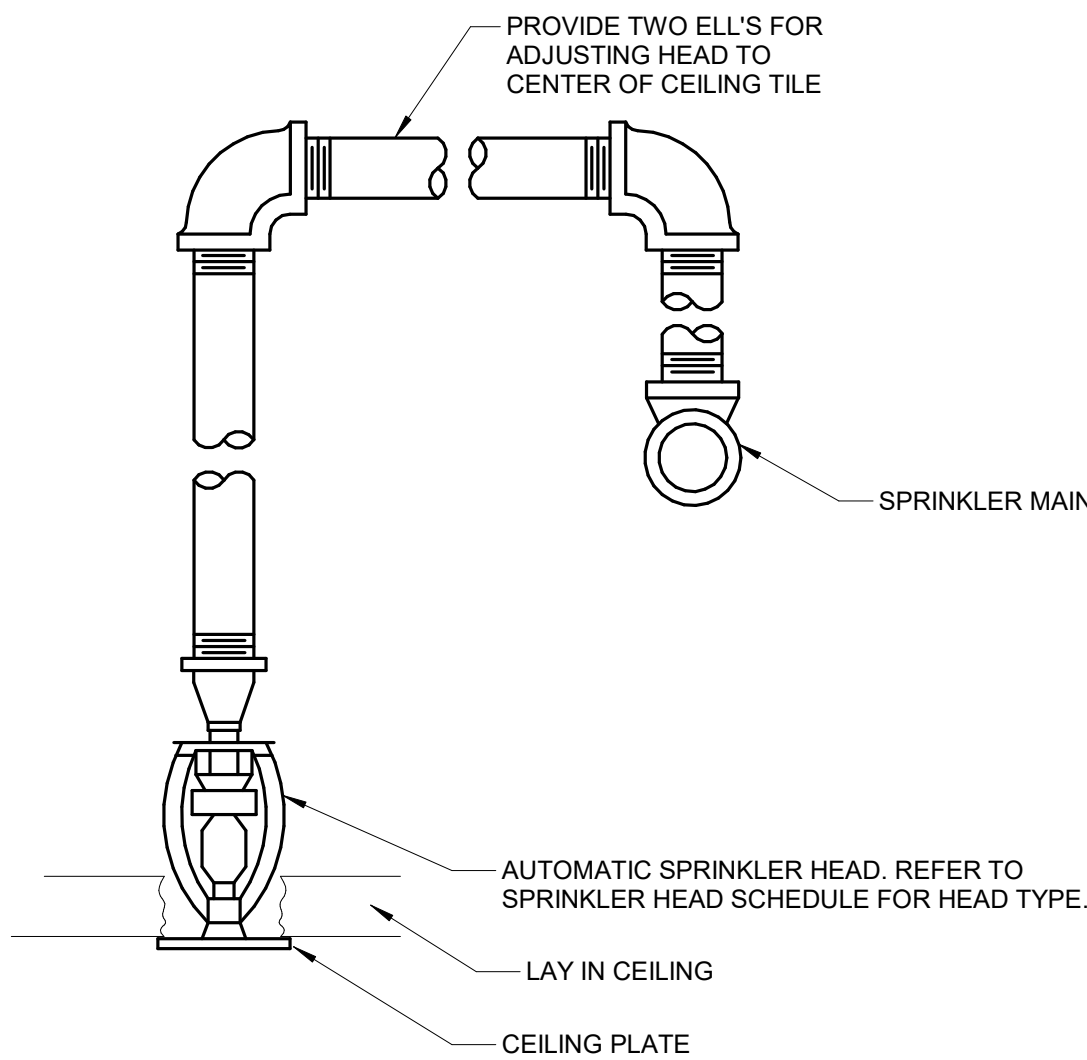


STRUT CLAMP HANGERS

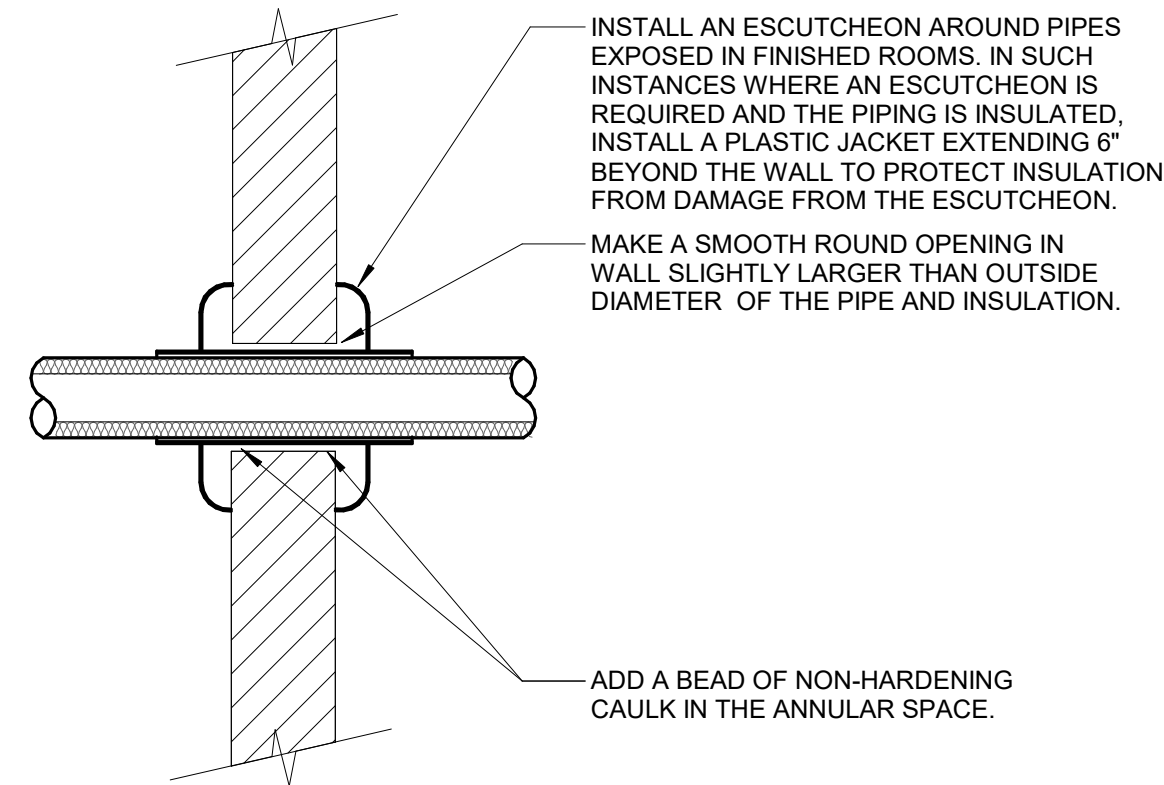
NOTES:

1. REFER TO SPECIFICATION SECTION 21 05 29.

1 PIPE SUPPORT DETAIL
NO SCALE




2 SPRINKLER HEAD MOUNTING DETAIL
NO SCALE



NOTES:

1. THIS DETAIL APPLIES TO ALL PIPES. THE INTENTION IS TO CONTINUE THE INSULATION AND VAPOR BARRIER THROUGH ALL PENETRATIONS. PERMIT THERMAL EXPANSION WITHOUT DAMAGING INSULATION, AND TO SEAL AIRTIGHT AROUND INSULATED AND UNINSULATED PIPES FOR NOISE TRANSMISSION CONTROL.
2. SEE SPECIFICATION SECTIONS SECTION 23 05 29 - HVAC FOR ADDITIONAL INFORMATION.
3. FLOOR OPENINGS ARE SIMILAR. SEE SPECIFICATION SECTION 23 05 29 - HVAC FOR DIFFERENCES BETWEEN FLOOR AND WALL PENETRATIONS.

3 NON-FIRE RATED WALL PENETRATION DETAIL
NO SCALE



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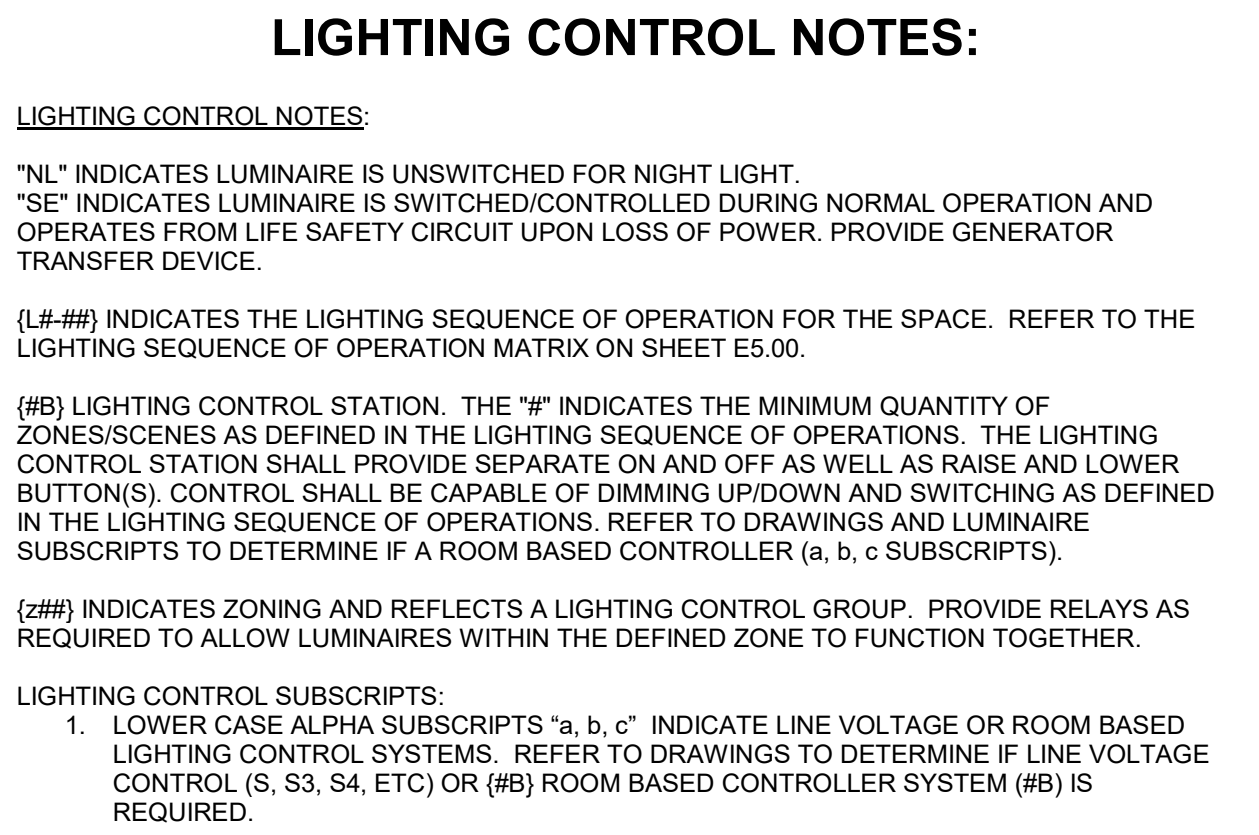
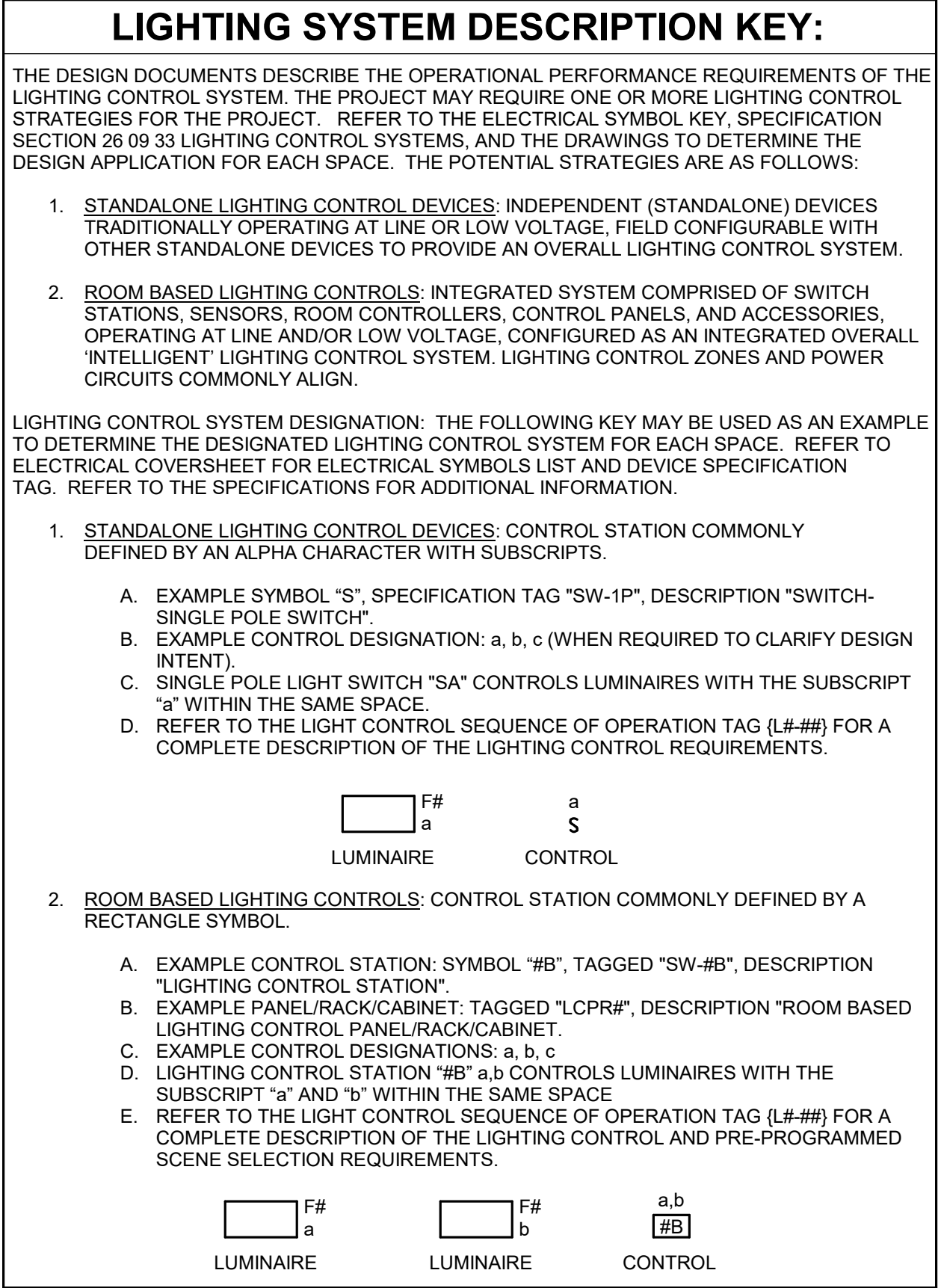
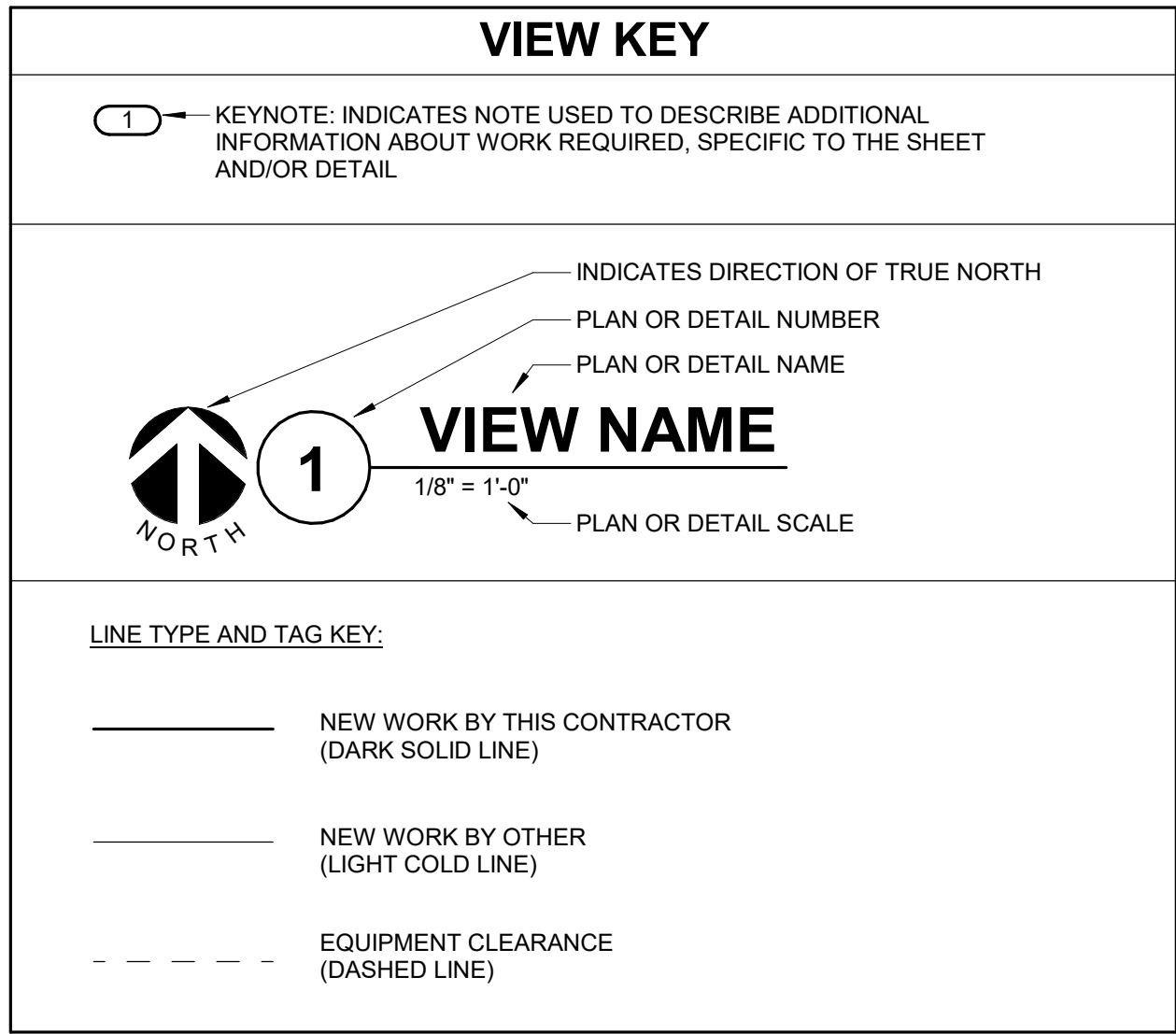
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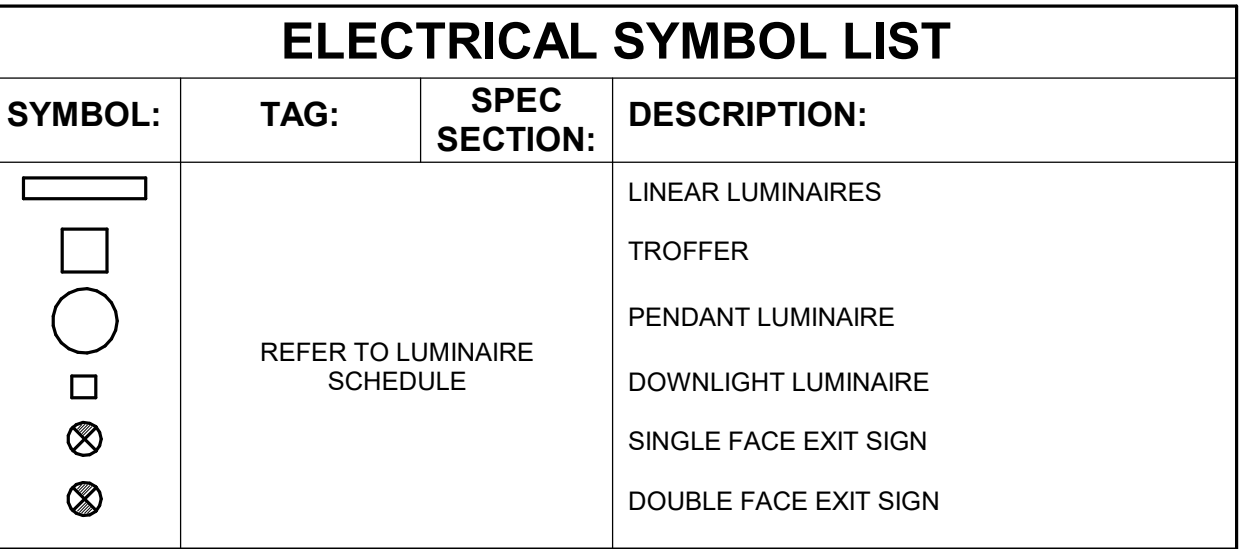
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REV. SCALE IN INCHES

PROJECT #202005446.00



REFER TO SHEET E5.00 FOR LUMINAIRE SCHEDULE



CONDUIT INSTALLATION SCHEDULE

THE FOLLOWING SCHEDULE SHALL BE ADHERED TO UNLESS THEY CONSTITUTE A VIOLATION OF APPLICABLE CODES OR ARE NOTED OTHERWISE ON THE DRAWINGS. THE INSTALLATION OF RMC CONDUIT WILL BE PERMITTED IN PLACE OF ALL CONDUIT SPECIFIED IN THIS SCHEDULE. REFER TO CONDUIT AND BOXES SPECIFICATION 26 05 33 FOR ADDITIONAL INFORMATION.

INSTALLATION TYPE	RMC	IMC	EMT	PVC	PVC CONCRETE ENCASED
FEEDERS: SWITCHBOARDS, DISTRIBUTION PANELS, PANELBOARDS, MOTOR CONTROL CENTERS, ETC.		X	X		
BRANCH CIRCUITS: LIGHTING, RECEPTACLES, CONTROLS, ETC.		X	X		
MECHANICAL EQUIPMENT FEEDERS: PUMPS, CHILLERS, AIR HANDLING UNITS, ETC.		X	X		
FLOOR MOUNTED EQUIPMENT FEEDERS: PUMPS, ETC. (INCLUDE NO MORE THAN 6 FEET OF LFMC TO PUMP)		X	X		
CONTROLS (LIGHTING, POWER, BUILDING AUTOMATION, ETC.)		X	X		
WET AND DAMP LOCATIONS: (CONDUIT, BOXES, FITTINGS, INSTALLED AND EQUIPPED TO PREVENT WATER ENTRY)	X				
INTERIOR LOCATIONS WITH FINISHED CEILING AND WALLS: CONCEALED IN WALLS AND ABOVE FINISHED CEILINGS			X		
INTERIOR LOCATIONS WITHOUT FINISHED CEILINGS: CONCEALED IN WALL, EXPOSED ABOVE CEILINGS		X	X		
EXISTING INTERIOR LOCATIONS WITH FINISHED CEILING AND WALLS: CONCEALED IN WALLS AND ABOVE FINISHED CEILING UNLESS OTHERWISE NOTED			X		
UNDERGROUND / UNDER SLABS ON GRADE					
WITHIN 5' FROM THE PERIMETER OF THE BUILDING	X			X	
WITHIN 5' FROM THE PERIMETER OF THE BUILDING WHEN PASSING THROUGH THE PERIMETER OF THE BUILDING FOUNDATION	X				
UNDERGROUND SITE CONDUITS:					
WITHIN 5' FROM THE PERIMETER OF A BUILDING FOUNDATION	X				
5' OR GREATER FROM THE PERIMETER OF A BUILDING FOUNDATION	X			X	
UNDER ROADS, DRIVES, AND VEHICLE TRAVELED WAYS.					X

ELECTRICAL SYMBOL LIST

SYMBOL:	TAG:	SPEC SECTION:	DESCRIPTION:
[Symbol]	ECONN	26 05 33	ELECTRICAL CONNECTION
[Symbol]	JB	26 05 33	JUNCTION BOX
[Symbol]	FB-#	26 27 26	FLOOR BOX
[Symbol]	PANEL-###	26 24 16	PANELBOARD - SURFACE MOUNT
[Symbol]	REC-DUP	26 27 26	DUPLEX RECEPTACLE, TAMPER RESISTANT, 125V
[Symbol]	REC-DUP-WP	26 27 26	DUPLEX GFI WEATHERPROOF RECEPTACLE, TAMPER RESISTANT, 125V
[Symbol]	REC-USB	26 27 26	DUPLEX RECEPTACLE, USB CHARGING, TYPE A AND C, TAMPER RESISTANT, 125V
[Symbol]	REC-QUAD	26 27 26	QUAD RECEPTACLE, TAMPER RESISTANT, 125V
[Symbol]	REC-QUAD-WP	26 27 26	QUAD WEATHERPROOF RECEPTACLE, TAMPER RESISTANT, 125V
[Symbol]	PB-1	26 27 26	POWER BOLLARD WITH GFI RECEPTACLE AND USB CHARGER
[Symbol]	PP		PUSH PAD (BY OTHERS)

ELECTRICAL SYMBOL LIST

SYMBOL:	TAG:	SPEC SECTION:	DESCRIPTION:
[Symbol]	SW-V	26 09 33	SWITCH SUBSCRIPTS: V = DUAL TECHNOLOGY VACANCY SENSOR WITH WALL SWITCH
[Symbol]	SW-VC-D	26 09 33	VACANCY SENSOR - CEILING MOUNTED SUBSCRIPTS: BLANK = DUAL TECHNOLOGY
[Symbol]	SW-LCD	26 09 33	LCD TOUCH SCREEN LIGHTING CONTROL STATION
[Symbol]	SW-PB	26 09 33	LOW VOLTAGE CONTROLLER. REFER TO DETAIL 5/E3.00
[Symbol]	SW-RB	26 09 33	LIGHTING CONTROL STATION - DEFAULT DIMMED CONTROL. # DEFINES MINIMUM QUANTITY OF CONTROL SCENES. PLUS OFF, REFER TO LIGHTING SEQUENCE OF OPERATIONS WHEN NOT DEFINED. SUBSCRIPTS: BLANK = DIMMING CONTROL
[Symbol]	SW-TC	26 09 33	TIME CLOCK SWITCH
[Symbol]	LC-#	26 28 21	LIGHTING CONTACTOR. REFER TO CONTACTOR SCHEDULE

ELECTRICAL SYMBOL LIST

SYMBOL:	TAG:	SPEC SECTION:	DESCRIPTION:
COMMON AND SEQUENCE OF OPERATION SUBSCRIPTS			SUBSCRIPTS: TYPE / PROGRAMMING W = WEATHERPROOF DH = DOOR HOLD RELEASE # = 15, 30, 75, 110, 177 CANDELA RATING
[Symbol]	FA-120	28 31 00	FIRE ALARM SMOKE DETECTOR, CEILING MOUNT BLANK - PHOTOELECTRIC
[Symbol]	FA-122	28 31 00	FIRE ALARM DUCT SMOKE DETECTOR
[Symbol]	FA-130	28 31 00	FIRE ALARM MANUAL PULL STATION
[Symbol]	FA-200	28 31 00	FIRE ALARM VISUAL ALARM DEVICE, CEILING OR WALL MOUNT # = CANDELA RATING.
[Symbol]	FA-211	28 31 00	COMBINATION HORN AND VISUAL ALARM DEVICE, CEILING OR WALL MOUNTED # = CANDELA RATING W = WEATHER PROOF
[Symbol]	FA-242	28 31 00	FIRE ALARM REMOTE INDICATOR WITH TEST SWITCH
[Symbol]	FA-161	28 31 00	FIRE ALARM ADDRESSABLE CONTROL MODULE
[Symbol]	FA-271	28 31 00	DOOR HOLD OPEN

ELECTRICAL RENOVATION NOTES:

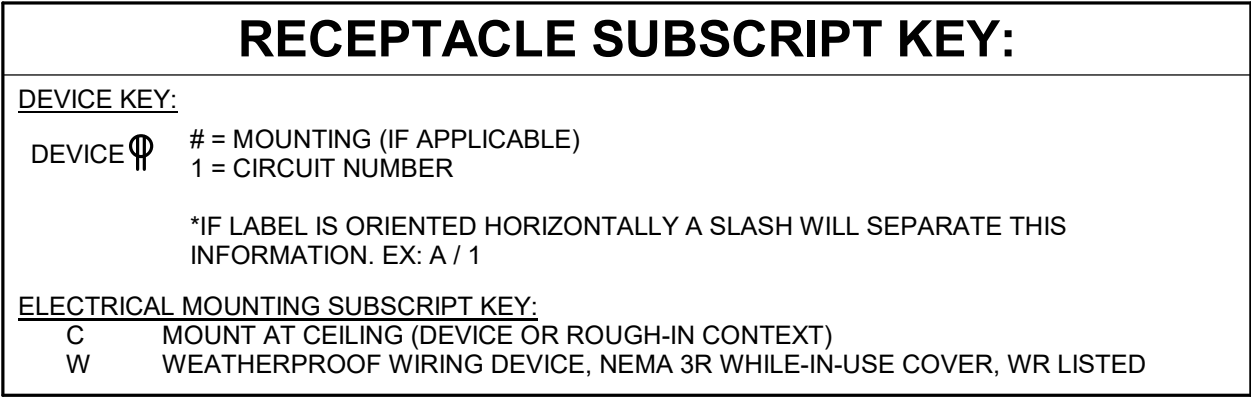
- THESE NOTES APPLY TO ALL ELECTRICAL SHEETS AND TRADES, INCLUDING BUT NOT LIMITED TO, LIGHTING, POWER, FIRE ALARM, AND OTHER LOW VOLTAGE SYSTEMS.
- EXISTING CONDITIONS ARE SHOWN BASED ON INFORMATION OBTAINED FROM FIELD SURVEYS, EXISTING BUILDING DOCUMENTS. CONTRACTOR SHALL REVIEW EXISTING CONDITIONS AND REPORT CONFLICTS.
 - NOT ALL EXISTING EQUIPMENT, LUMINAIRES, AND CONDUIT ARE SHOWN. CONTRACTOR SHALL REVIEW EXISTING CONDITIONS AND REPORT CONFLICTS.
 - ELECTRICAL CONTRACTOR SHALL REVIEW EXISTING CONDITIONS TO VERIFY ACCESSIBILITY TO THE AREAS OF THEIR WORK INCLUDING WALLS, FLOOR, CEILINGS, CEILING TILES/GRID, AND ROOF. ELECTRICAL CONTRACTOR IS RESPONSIBLE TO PROVIDE CUTTING, REMOVAL, PATCHING, AND REINSTALLATION OF AFFECTED AREAS ASSOCIATED WITH THEIR WORK BY COORDINATING WITH THE GENERAL CONTRACTOR OR QUALIFIED CONTRACTOR.
 - WHERE EXISTING ELECTRICAL SYSTEMS ARE LOCATED IN AREAS THAT CONFLICT WITH NEW EQUIPMENT, PIPING, OR DUCTWORK TO BE INSTALLED, EACH CONTRACTOR SHALL EITHER ARRANGE NEW EQUIPMENT, CONDUIT, OR DUCTWORK IN SUCH A FASHION THAT IT DOES NOT CONFLICT WITH EXISTING SYSTEMS, OR REWORK EXISTING ELECTRICAL SYSTEMS TO ALLOW FOR INSTALLATION OF NEW EQUIPMENT, PIPING, OR DUCTWORK.

ELECTRICAL ABBREVIATION KEY

ABBR:	DESCRIPTION:
AFF	ABOVE FINISHED FLOOR
C	CONDUIT (BRANCH CIRCUIT OR FEEDER CONTEXT)
EGC	EQUIPMENT GROUNDING CONDUCTOR
NEMA #	NEMA RATING
NIC	NOT IN CONTRACTED SCOPE
ROOF	EQUIPMENT LOCATED ON ROOF ABOVE
SM	SURFACE MOUNTED
TYP	TYPICAL
UG	UNDERGROUND
UNO	UNLESS NOTED OTHERWISE

CONTRACTOR ABBREVIATION KEY

ABBR:	DESCRIPTION:
E.C.	ELECTRICAL CONTRACTOR
M.C.	MECHANICAL CONTRACTOR
T.C.C.	TEMPERATURE CONTROLS CONTRACTOR
A.V.C.	AUDIO VISUAL CONTRACTOR
T.C.	TECHNOLOGY CONTRACTOR



ELECTRICAL INSTALLATION NOTES:

- THE COMPLETE INSTALLATION SHALL BE IN ACCORDANCE WITH THE ADA STANDARDS FOR ACCESSIBLE DESIGN.
- CIRCUIT NUMBERS ARE SHOWN FOR CIRCUIT IDENTIFICATION. CIRCUITING SHALL AGREE WITH NUMBERING ON THE PANEL PROVIDED. COMMON NEUTRALS MAY NOT BE USED FOR BRANCH CIRCUITS. BALANCE THE LOAD ON PANEL AS EVENLY AS POSSIBLE BETWEEN EACH PHASE.
- LIFE SAFETY BRANCH WIRING FOR FEEDERS AND BRANCH CIRCUITS SHALL BE ROUTED IN SEPARATE RACEWAY, JUNCTION BOXES, PULL BOXES, AND CABINETS. WIRING FOR EACH BRANCH SHALL BE INDEPENDENT FROM OTHER BRANCHES, INCLUDING THE NORMAL BRANCH.
- FLUSH MOUNT ALL LIGHTING CONTROL DEVICES AT +42" FROM FLOOR (CENTERLINE DIMENSION), EXCEPT WHERE OTHERWISE NOTED.
- FLUSH MOUNT ALL DUPLEX RECEPTACLES AND TECHNOLOGY OUTLETS AT +18" FROM FLOOR (CENTERLINE DIMENSION), EXCEPT WHERE OTHERWISE NOTED. RECEPTACLES AND OUTLETS MAY BE SURFACE MOUNTED WHEN CONDUIT IS SPECIFIED EXPOSED. MOUNT EXTERIOR LOCATED RECEPTACLES WITH WHILE-IN-USE COVERS AT +20" FROM FINISHED GRADE (CENTER DIMENSIONS) TO MAINTAIN INSTALLATION ADA COMPLIANCE.
- ALL MATERIALS USED TO SEAL PENETRATIONS OF FIRE RATED WALLS AND FLOORS SHALL BE TESTED AND CERTIFIED AS A SYSTEM PER ASTM E814 STANDARDS FOR FIRE TESTS OF THROUGH-PENETRATION FIRESTOPS. REFER TO 26 05 03 FOR ADDITIONAL INFORMATION AND REQUIREMENTS SPECIFIC TO FIRESTOPPING.
- MOUNT ALL FIRE ALARM PULL STATIONS AT +42" FROM FLOOR (CENTERLINE DIMENSION) EXCEPT WHERE OTHERWISE NOTED.
- INSTALL ALL WALL MOUNTED FIRE ALARM NOTIFICATION DEVICES AT 90" ABOVE FINISHED FLOOR OR 6" BELOW THE CEILING, WHICHEVER IS LOWER, EXCEPT WHERE OTHERWISE NOTED. HEIGHT SHALL BE MEASURED TO THE TOP OF THE DEVICE.
- CONTRACTOR SHALL COORDINATE THE LOCATION OF ALL CEILING MOUNTED DEVICES AND EQUIPMENT WITH LUMINAIRES, SPRINKLER, AND CEILING DIFFUSERS. CENTER ALL DEVICES IN CEILING TILE PATTERN. SMOKE DETECTORS, CARBON MONOXIDE DETECTORS, AND OCCUPANCY/VACANCY SENSORS SHALL BE LOCATED NO CLOSER THAN 3 FEET TO AN AIR SUPPLY DIFFUSER OR RETURN GRILLE.
- CONTRACTOR SHALL VERIFY ALL FURNITURE, MODULAR FURNITURE, AND EQUIPMENT LOCATIONS WITH ARCHITECTURAL PLANS, ELEVATIONS, AND REVISED SHOP DRAWINGS. PRIOR TO MAKING THE ACTUAL ELECTRICAL INSTALLATION, THIS CONTRACTOR SHALL ADJUST RECEPTACLES, OUTLETS, OR CONNECTION LOCATIONS TO ACCOMMODATE FURNITURE AND/OR EQUIPMENT.
- ELECTRICAL AND TECHNOLOGY EQUIPMENT SHALL BE MOUNTED TO AVOID IMPEDANCE OF, OPERATION OF, AND/OR ACCESS TO ELECTRICAL AND MECHANICAL EQUIPMENT. ALL MOUNTING OF ELECTRICAL AND TELECOMMUNICATIONS EQUIPMENT, ON EQUIPMENT SUPPLIED BY ANOTHER CONTRACTOR, SHALL BE APPROVED IN ADVANCE BY THE OTHER CONTRACTOR.
- CONTRACTOR SHALL BE RESPONSIBLE FOR ALL OPENINGS REQUIRED IN WALLS. ALL OPENINGS SHALL BE REPAIRED TO MATCH EXISTING BY A QUALIFIED CONTRACTOR AT THE EXPENSE OF THIS CONTRACTOR. ALL CONDUITS THROUGH WALLS SHALL BE GROUTED OR SEALED INTO OPENINGS.
- EACH CONTRACTOR IS RESPONSIBLE FOR DAMAGE CAUSED BY THEIR ACTIONS TO THE WALLS, FLOORS, CEILINGS, AND ROOFS. THE CONTRACTOR WHOSE WORK CAUSES DAMAGE IS RESPONSIBLE FOR PATCHING TO MATCH ORIGINAL CONSTRUCTION, FIRE RATING, AND FINISH.
- REFER TO ARCHITECTURAL REFLECTED CEILING PLAN, ELECTRICAL, TECHNOLOGY AUDIO/VISUAL, AND OTHER ELECTRICAL PLANS FOR EXACT LOCATIONS OF ALL CEILING MOUNTED DEVICES, OTHER THAN SPRINKLERS.
- ELECTRICAL IDENTIFICATION. REFER TO SPECIFICATION SECTION 26 05 53 FOR COLOR/LABEL REQUIREMENTS FOR CONDUIT, BOX, CABLEWIRE, AND EQUIPMENT.

ELECTRICAL SHEET INDEX

E0.00	ELECTRICAL COVERSHEET
ED1.01	FLOOR PLAN DEMOLITION - ELECTRICAL
E1.00	OVERALL PLAN - ELECTRICAL
E1.01	FLOOR PLAN - LIGHTING
E1.02	FLOOR PLAN - POWER
E1.03	FLOOR PLAN - SYSTEMS
E1.04	ROOF PLAN - POWER & SYSTEMS
E3.00	ELECTRICAL DETAILS
E4.00	ELECTRICAL RISER DIAGRAM
E5.00	ELECTRICAL SCHEDULES
E6.00	ELECTRICAL PANEL SCHEDULES
GRAND TOTAL: 11	



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DKA PROJECT NO: 24-027

KEY PLAN:

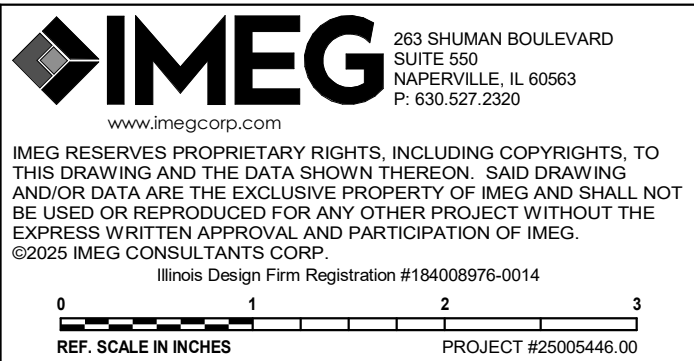
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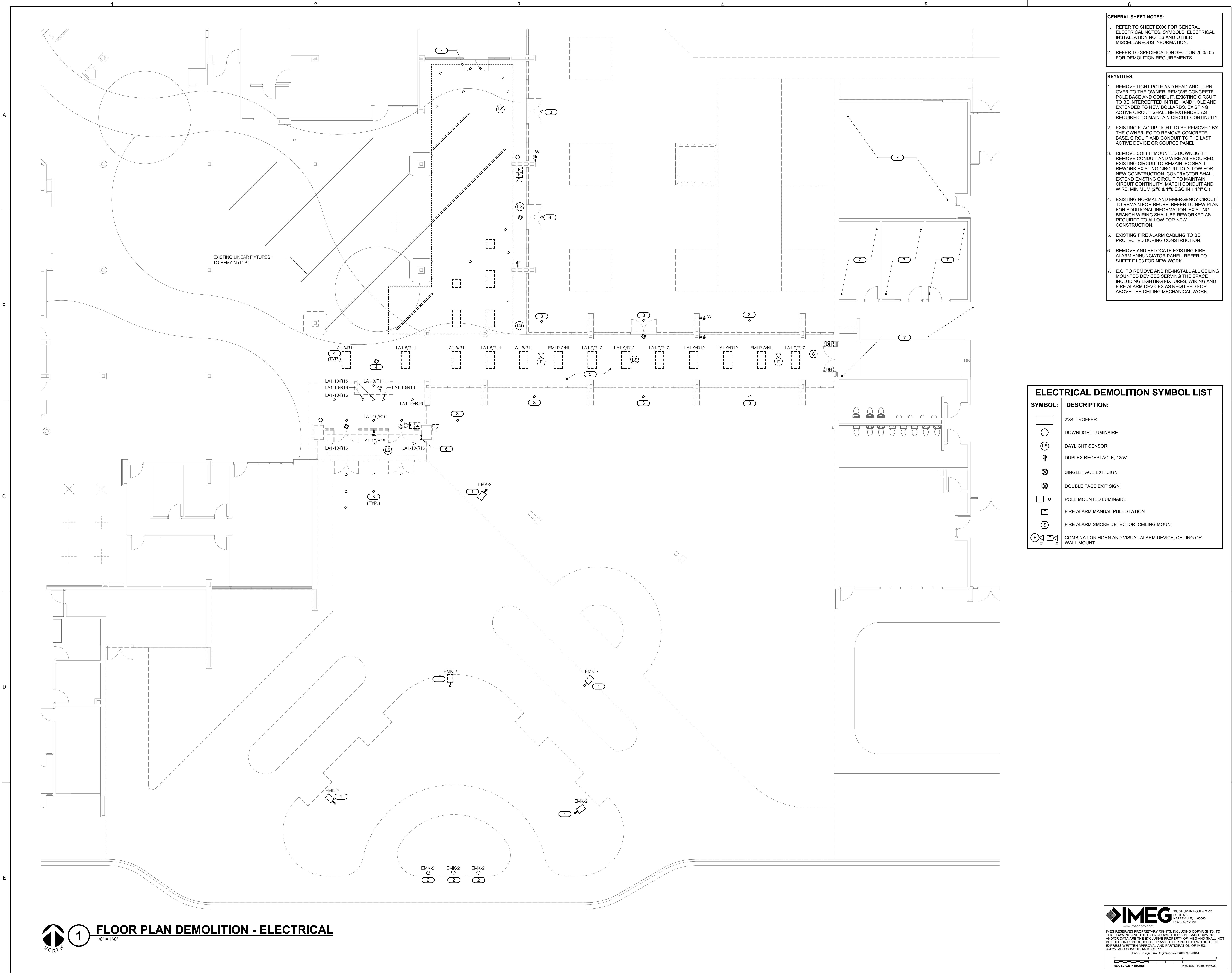
NO.	DESCRIPTION:	DATE:

SHEET TITLE:
ELECTRICAL COVERSHEET

SHEET NUMBER:

E0.00






GENERAL SHEET NOTES:

1. REFER TO SHEET E000 FOR GENERAL ELECTRICAL NOTES, SYMBOLS, ELECTRICAL INSTALLATION NOTES AND OTHER MISCELLANEOUS INFORMATION.
2. REFER TO SPECIFICATION SECTION 26 05 05 FOR DEMOLITION REQUIREMENTS.

KEYNOTES:

1. REMOVE LIGHT POLE AND HEAD AND TURN OVER TO THE OWNER. REMOVE CONCRETE POLE BASE AND CONDUIT. EXISTING CIRCUIT TO BE INTERCEPTED IN THE HAND HOLE AND EXTENDED TO NEW BOLLARDS. EXISTING ACTIVE CIRCUIT SHALL BE EXTENDED AS REQUIRED TO MAINTAIN CIRCUIT CONTINUITY.
2. EXISTING FLAG UP-LIGHT TO BE REMOVED BY THE OWNER. EC TO REMOVE CONCRETE BASE, CIRCUIT AND CONDUIT TO THE LAST ACTIVE DEVICE OR SOURCE PANEL.
3. REMOVE SOFFIT MOUNTED DOWNLIGHT. REMOVE CONDUIT AND WIRE AS REQUIRED. EXISTING CIRCUIT TO REMAIN. EC SHALL REWORK EXISTING CIRCUIT TO ALLOW FOR NEW CONSTRUCTION. CONTRACTOR SHALL EXTEND EXISTING CIRCUIT TO MAINTAIN CIRCUIT CONTINUITY. MATCH CONDUIT AND WIRE, MINIMUM (2#8 & 1#8 EGC IN 1 1/4" C.)
4. EXISTING NORMAL AND EMERGENCY CIRCUIT TO REMAIN FOR REUSE. REFER TO NEW PLAN FOR ADDITIONAL INFORMATION. EXISTING BRANCH WIRING SHALL BE REWORKED AS REQUIRED TO ALLOW FOR NEW CONSTRUCTION.
5. EXISTING FIRE ALARM CABLE TO BE PROTECTED DURING CONSTRUCTION.
6. REMOVE AND RELOCATE EXISTING FIRE ALARM ANNUNCIATOR PANEL. REFER TO SHEET E1.03 FOR NEW WORK.
7. E.C. TO REMOVE AND RE-INSTALL ALL CEILING MOUNTED DEVICES SERVING THE SPACE INCLUDING LIGHTING FIXTURES, WIRING AND FIRE ALARM DEVICES AS REQUIRED FOR ABOVE THE CEILING MECHANICAL WORK.

ELECTRICAL DEMOLITION SYMBOL LIST	
SYMBOL:	DESCRIPTION:
	2'x4' TROFFER
	DOWNLIGHT LUMINAIRE
	DAYLIGHT SENSOR
	DUPLEX RECEPTACLE, 125V
	SINGLE FACE EXIT SIGN
	DOUBLE FACE EXIT SIGN
	POLE MOUNTED LUMINAIRE
	FIRE ALARM MANUAL PULL STATION
	FIRE ALARM SMOKE DETECTOR, CEILING MOUNT
	COMBINATION HORN AND VISUAL ALARM DEVICE, CEILING OR WALL MOUNT



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DKA PROJECT NO: 24-027

KEY PLAN:

SHEET STATUS: 05/16/2025
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SHEET TITLE:
**FLOOR PLAN
DEMOLITION -
ELECTRICAL**

SHEET NUMBER:
ED1.01



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KEY PLAN:

SHEET STATUS: 05/16/2025
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NO.	DESCRIPTION:	DATE:

SHEET TITLE:
**OVERALL PLAN -
ELECTRICAL**

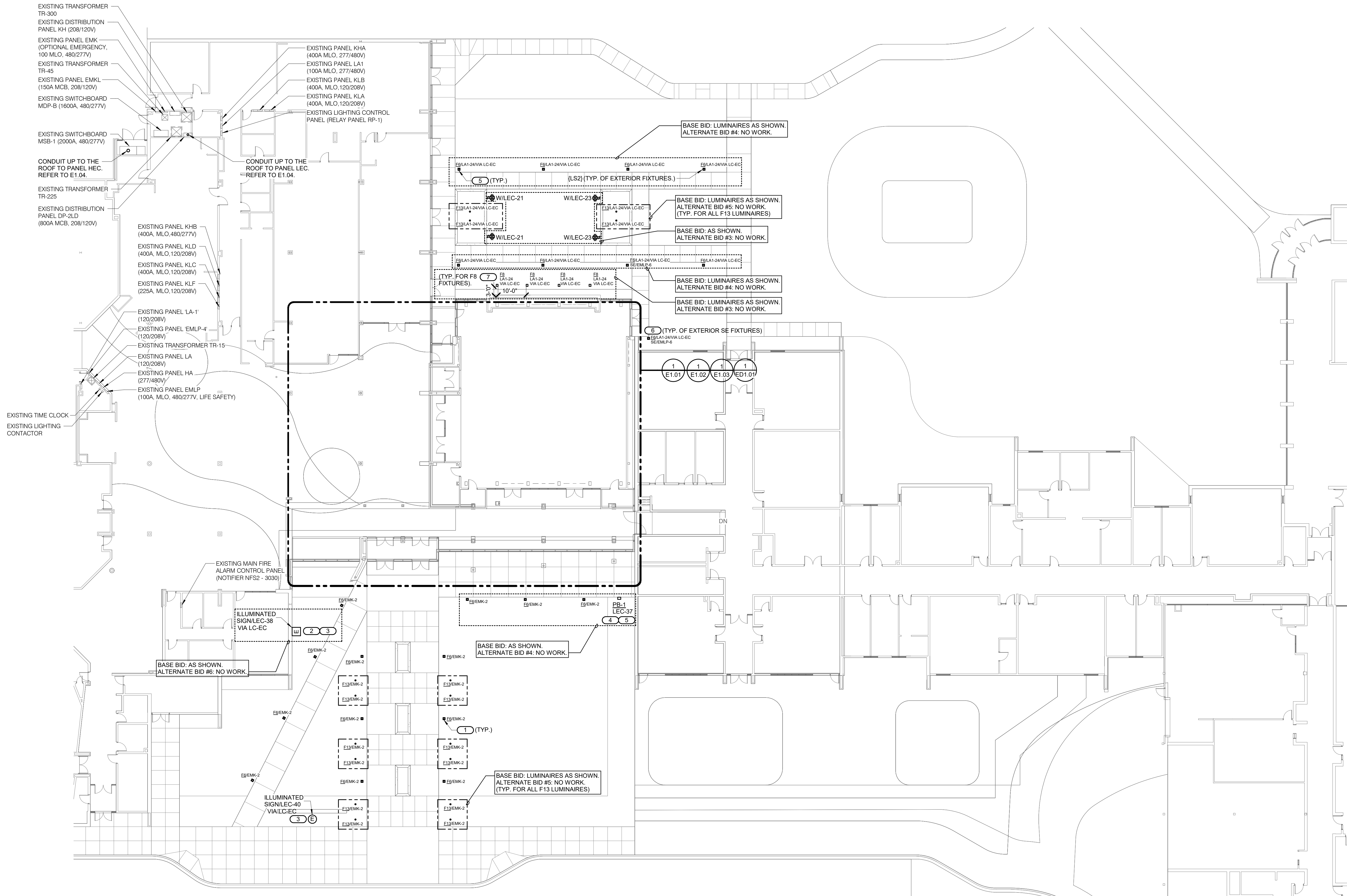
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E1.00

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- GENERAL SHEET NOTES:**
- REFER TO SHEET E0.00 FOR GENERAL ELECTRICAL NOTES, SYMBOLS, ELECTRICAL INSTALLATION NOTES, ELECTRICAL RENOVATION NOTES, CONDUIT INSTALLATION SCHEDULE AND OTHER MISCELLANEOUS INFORMATION.
 - REFER TO SHEET E4.00 ELECTRICAL RISER DIAGRAM.
 - REFER TO SHEET E5.00 FOR LUMINAIRE SCHEDULE AND LIGHTING SEQUENCE OF OPERATION.
 - SURFACE MOUNTED CONDUITS ON THE EXTERIOR WALLS ARE NOT ALLOWED.

- KEYNOTES:**
- REFER TO BASE DETAIL 3/E3.00. EXTEND EXISTING 277 SITE EMERGENCY LIGHTING CIRCUIT TO NEW FIXTURES. VERIFY CIRCUIT NUMBER IN FIELD. MATCH CONDUIT AND WIRE. MINIMUM (2#8 & 1#8 EGC IN 1 1/4" C.). CIRCUIT IS CURRENTLY CONTROLLED BY TIME CLOCK VIA LIGHTING CONTACTOR.
 - SAW CUT EXISTING WALL AS REQUIRED FOR BACKBOX AND CONDUIT INSTALLATION. PATCH AND REPAIR TO MATCH EXISTING CONDITIONS. COORDINATE EXACT SIGNAGE LOCATION WITH ARCHITECT.
 - PROVIDE 20A, 120V DISCONNECT SWITCH WITH NEMA 3R ENCLOSURE (SQUARE D 2510 SERIES OR APPROVED EQUAL).
 - COORDINATE LOCATION WITH ARCHITECT. USB RECEPTACLE SHALL BE WIRED DOWNSTREAM OF GFCI.
 - REFER TO BASE DETAIL 3/E3.00.
 - PROVIDE WITH GENERATOR TRANSFER DEVICE (ACUTYBRANDS ETS20).
 - INSTALL ON CONCRETE BASE. REFER TO DETAIL 4/E3.00.



1 OVERALL PLAN - ELECTRICAL

1/16" = 1'-0"

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DKA PROJECT NO: 24-027

KEY PLAN:

SHEET STATUS: 05/16/2025
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NO.	DESCRIPTION:	DATE:

SHEET TITLE:
FLOOR PLAN - POWER

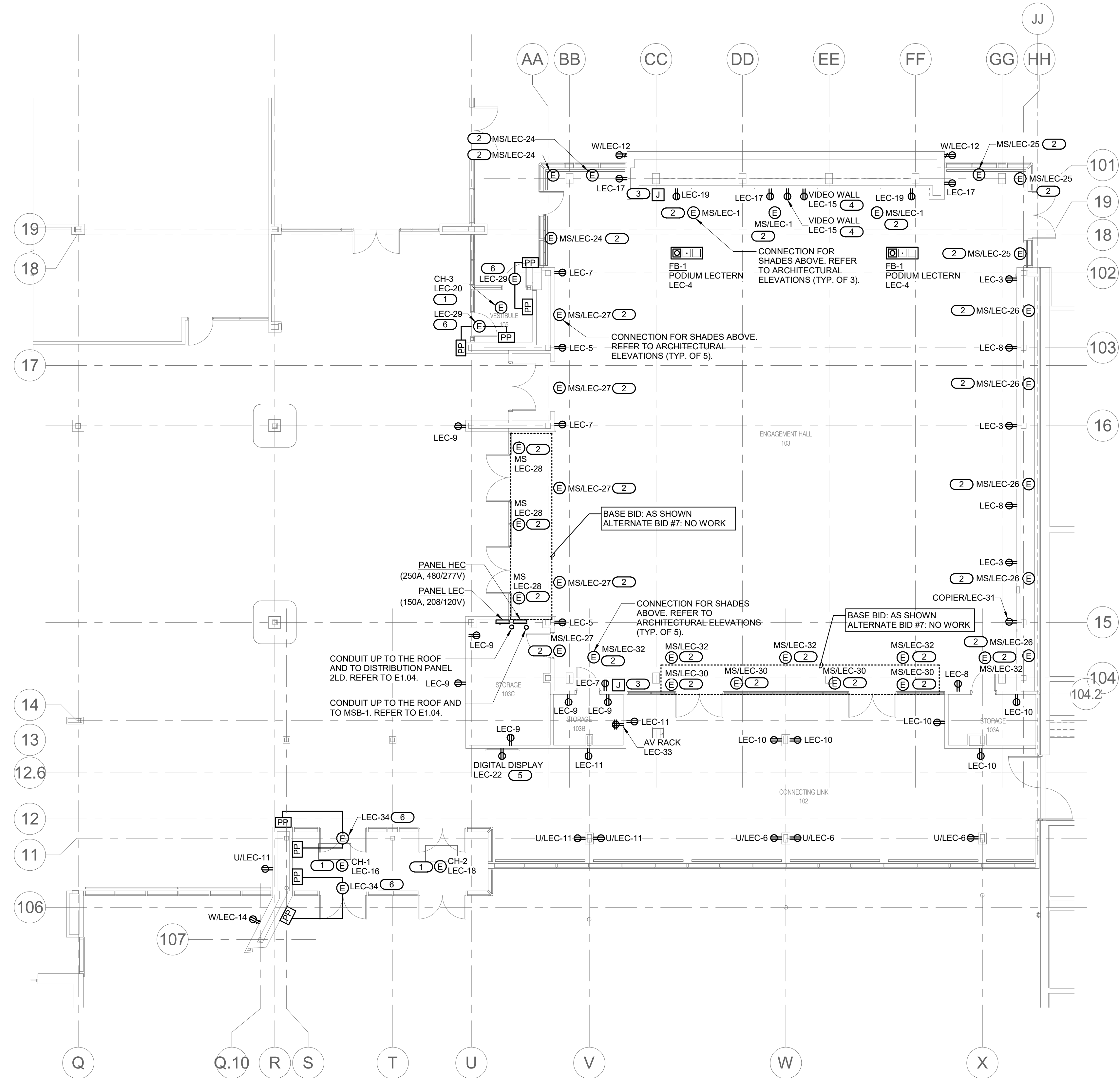
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- GENERAL SHEET NOTES:**
- REFER TO SHEET E0.00 FOR GENERAL ELECTRICAL NOTES, SYMBOLS, ELECTRICAL INSTALLATION NOTES, ELECTRICAL RENOVATION NOTES, CONDUIT INSTALLATION SCHEDULE AND OTHER MISCELLANEOUS INFORMATION.
 - REFER TO SHEET E4.00 FOR ELECTRICAL RISER DIAGRAM.
 - REFER TO SHEET E6.00 FOR ELECTRICAL PANEL SCHEDULES.
 - COORDINATE FLOOR BOX LOCATION WITH ARCHITECT.
 - CONDUITS IN EVENT CENTER 103 SHALL BE GROUPED TOGETHER. ROUTING TO BE REVIEWED AND APPROVED BY THE ARCHITECT.

- KEYNOTES:**
- CONNECT TO MANUFACTURER PROVIDED DISCONNECT/CONTROLLER/STARTER.
 - CONNECTION TO MOTORIZED SHADES. COORDINATE EXACT QUANTITY AND LOCATION OF MOTOR AND WIRING REQUIREMENTS WITH SHADE MANUFACTURER. SHADES SHALL HAVE MANUAL CONTROL. REFER TO 6/E3.00 FOR MOTORIZED SHADE CONTROL DIAGRAM DETAIL.
 - INSTALL SHADE CONTROLLER IN JUNCTION BOX PER MANUFACTURER'S REQUIREMENTS. MOUNT ADJACENT TO LIGHTING WALL CONTROLLER. GROUP INTO THREE ZONES:
1. ALL LOWER SHADES AT INTERIOR WINDOWS
2. HIGH EAST / SOUTH / WEST SHADES
3. FULL HEIGHT EAST / WEST SHADES AND ALL NORTH SHADES.
 - COORDINATE LOCATION WITH AV INSTALLER PRIOR TO ROUGH-IN.
 - COORDINATE EXACT LOCATION WITH ARCHITECT PRIOR TO ROUGH-IN.
 - 120V CONNECTION TO DOOR OPERATOR. COORDINATE LOCATION OF POWER SUPPLY WITH DOOR HARDWARE INSTALLER. PUSH PLATES PROVIDED WITH DOOR OPERATORS, INSTALLED AND WIRED BY E.C. FINAL LOCATION OF ADA PUSHPLATES SHALL BE COORDINATED WITH ARCHITECT.



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

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KEY PLAN:

SHEET STATUS: 05/16/2025
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NO.	DESCRIPTION:	DATE:

SHEET TITLE:
FLOOR PLAN - SYSTEMS

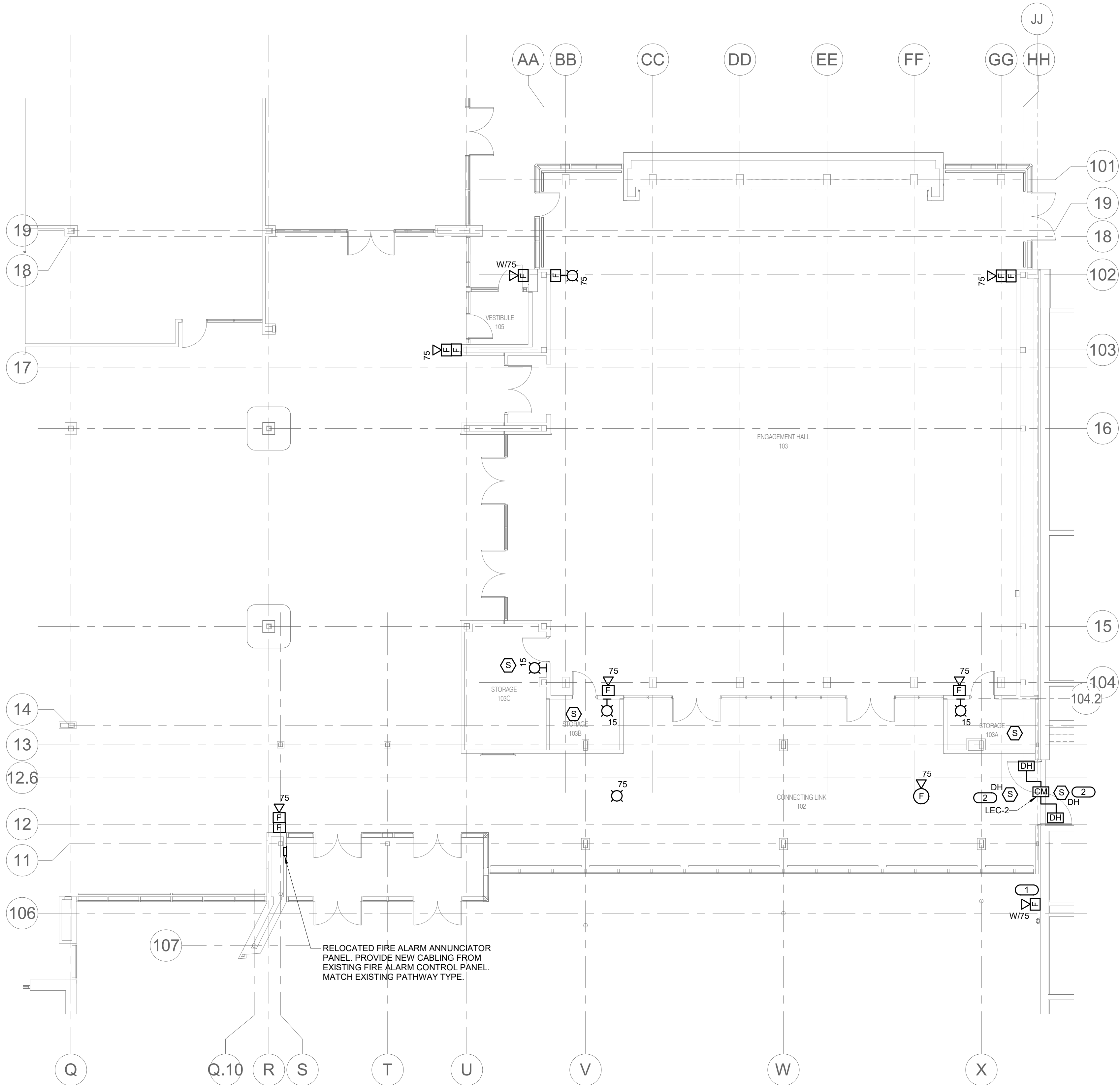
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- REFER TO SHEET E0.00 FOR GENERAL ELECTRICAL NOTES, SYMBOLS, ELECTRICAL INSTALLATION NOTES, ELECTRICAL RENOVATION NOTES, CONDUIT INSTALLATION SCHEDULE AND OTHER MISCELLANEOUS INFORMATION.
 - REFER TO SHEET E3.00 FOR FIRE ALARM RISER DIAGRAM AND MATRIX.
 - ALL FIRE ALARM WIRING IN EVENT CENTER 103 SHALL BE INSTALLED IN CONDUIT.
 - CONDUITS IN EVENT CENTER 103 SHALL BE GROUPED TOGETHER, ROUTING TO BE REVIEWED AND APPROVED BY THE ARCHITECT.

- KEYNOTES:**
- SAW CUT EXISTING WALL AS REQUIRED FOR BACKBOX AND CONDUIT INSTALLATION. PATCH AND REPAIR TO MATCH EXISTING CONDITIONS.
 - INSTALL SMOKE DETECTOR WITHIN 5'-0" OF CONTROLLED DOOR.

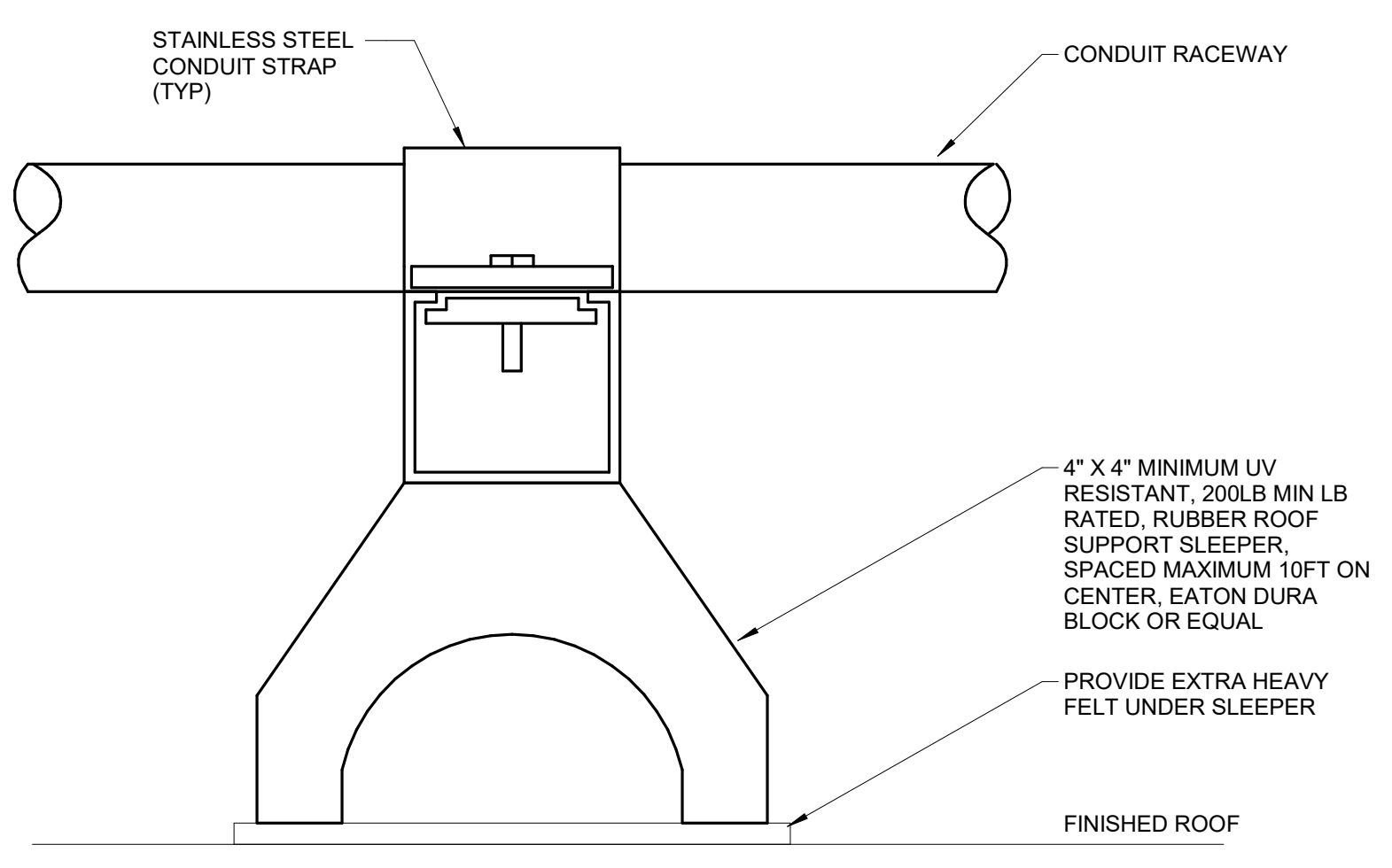
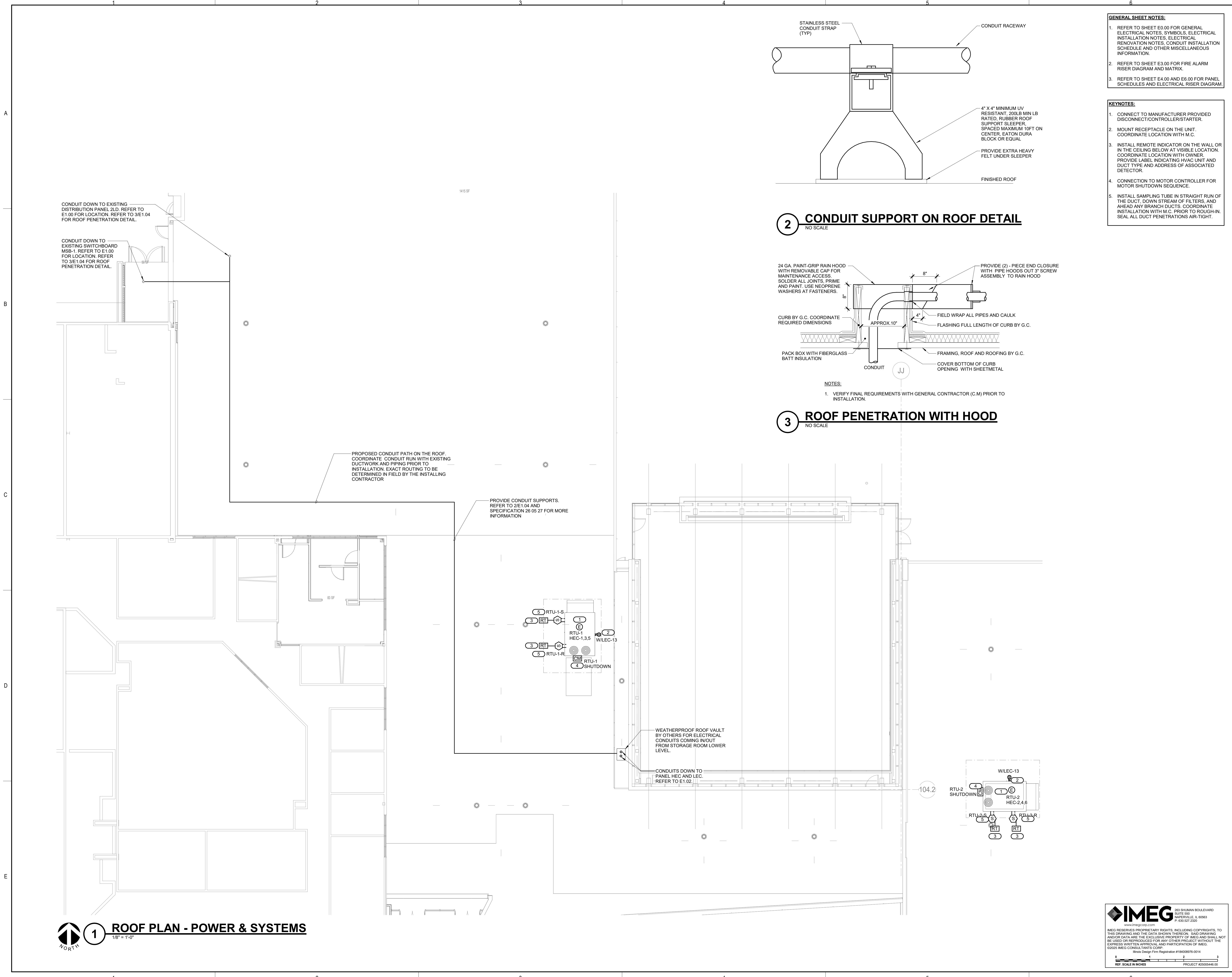


1 FLOOR PLAN - SYSTEMS
1/8" = 1'-0"

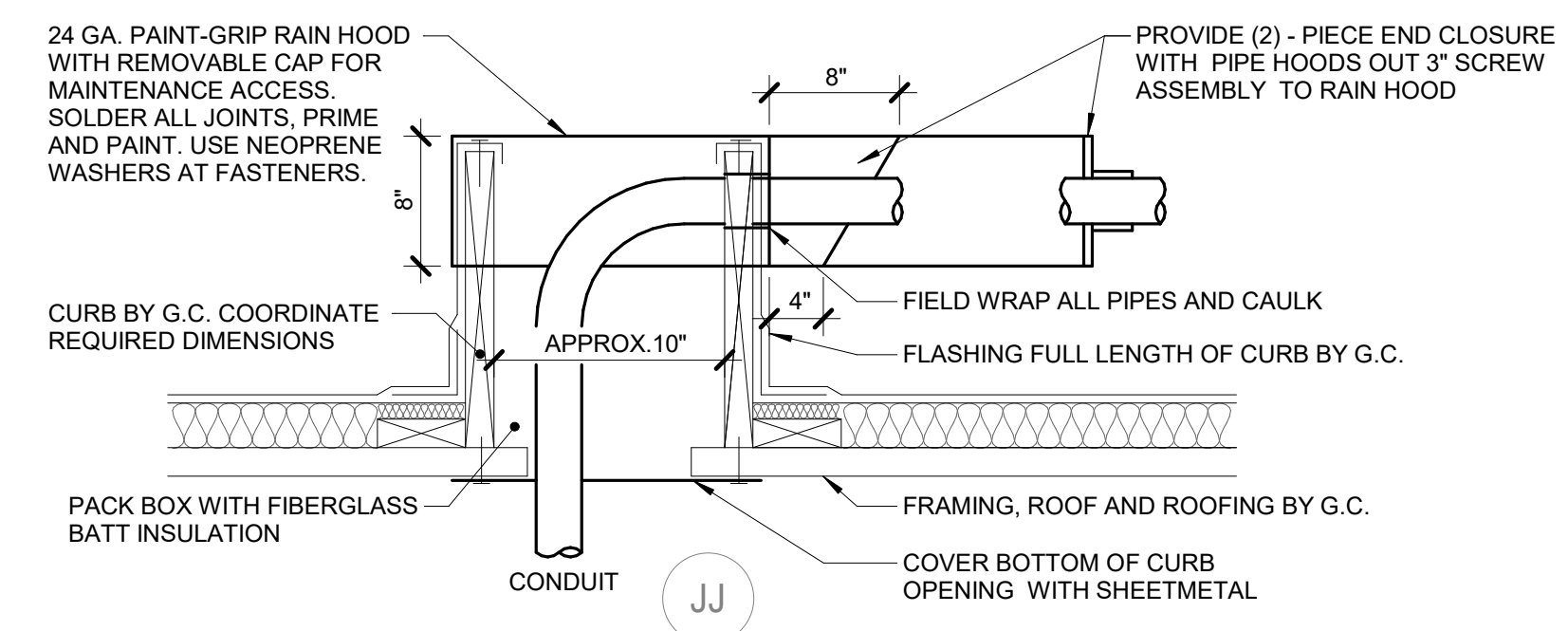
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2 CONDUIT SUPPORT ON ROOF DETAIL
NO SCALE



3 ROOF PENETRATION WITH HOOD
NO SCALE

- GENERAL SHEET NOTES:**
- REFER TO SHEET E0.00 FOR GENERAL ELECTRICAL NOTES, SYMBOLS, ELECTRICAL INSTALLATION NOTES, ELECTRICAL RENOVATION NOTES, CONDUIT INSTALLATION SCHEDULE AND OTHER MISCELLANEOUS INFORMATION.
 - REFER TO SHEET E3.00 FOR FIRE ALARM RISER DIAGRAM AND MATRIX.
 - REFER TO SHEET E4.00 AND E6.00 FOR PANEL SCHEDULES AND ELECTRICAL RISER DIAGRAM.
- KEYNOTES:**
- CONNECT TO MANUFACTURER PROVIDED DISCONNECT/CONTROLLER/STARTER.
 - MOUNT RECEPTACLE ON THE UNIT. COORDINATE LOCATION WITH M.C.
 - INSTALL REMOTE INDICATOR ON THE WALL OR IN THE CEILING BELOW AT VISIBLE LOCATION. COORDINATE LOCATION WITH OWNER. PROVIDE LABEL INDICATING HVAC UNIT AND DUCT TYPE AND ADDRESS OF ASSOCIATED DETECTOR.
 - CONNECTION TO MOTOR CONTROLLER FOR MOTOR SHUTDOWN SEQUENCE.
 - INSTALL SAMPLING TUBE IN STRAIGHT RUN OF THE DUCT, DOWN STREAM OF FILTERS, AND AHEAD ANY BRANCH DUCTS. COORDINATE INSTALLATION WITH M.C. PRIOR TO ROUGH-IN. SEAL ALL DUST PENETRATIONS AIR-TIGHT.

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DKA PROJECT NO: 24-027

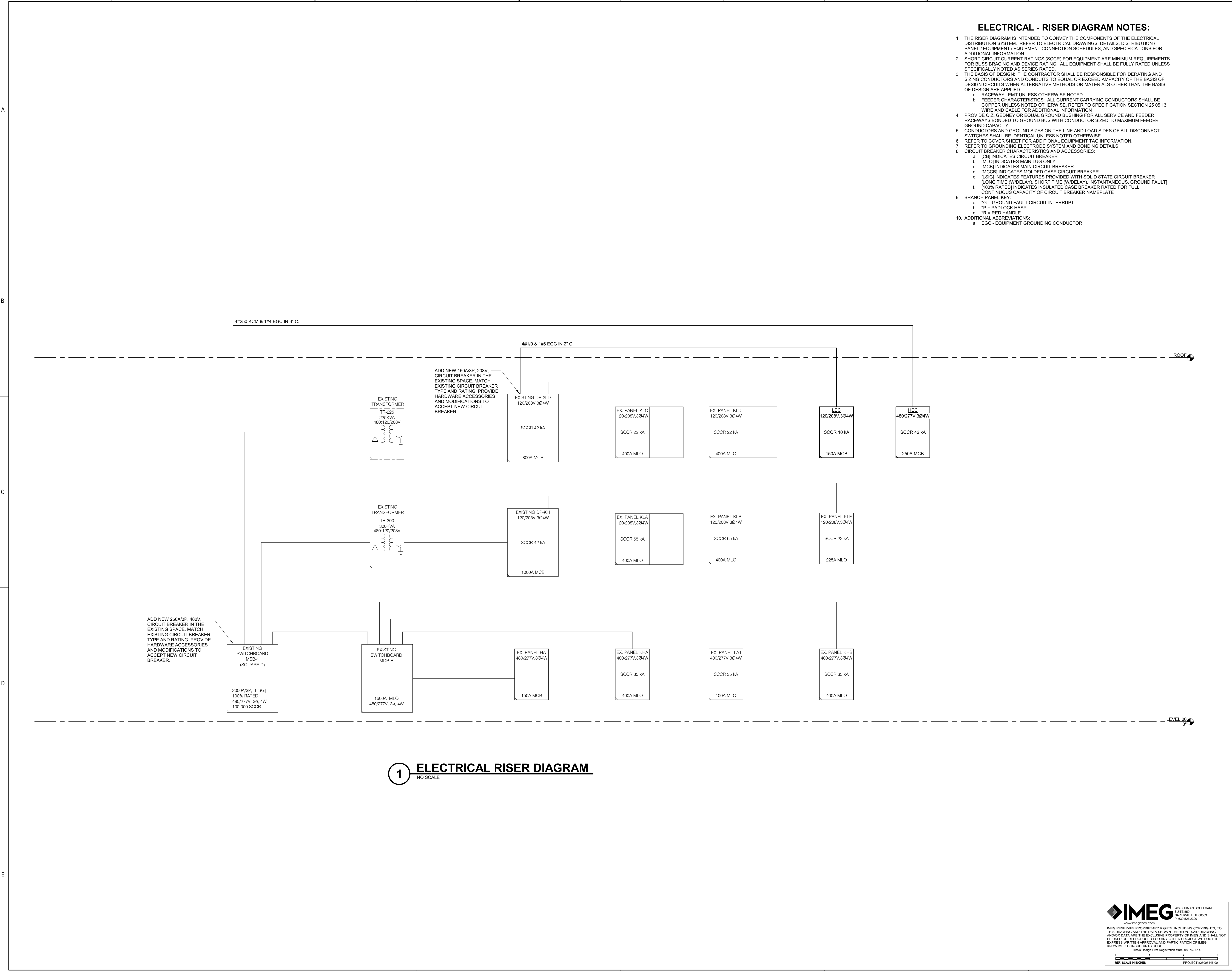
KEY PLAN:

SHEET STATUS: 05/16/2025
ISSUED FOR BID - NOT FOR CONSTRUCTION


NO.	DESCRIPTION:	DATE:

SHEET TITLE:
ROOF PLAN - POWER & SYSTEMS

SHEET NUMBER:
E1.04



1 ELECTRICAL RISER DIAGRAM
NO SCALE



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Illinois Design Firm Registration #19629976-0014
REV. SCALE IN INCHES: 0 1 2 3
PROJECT #20050446.00



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DKA PROJECT NO: 24-027

KEY PLAN:

SHEET STATUS: 05/16/2025
ISSUED FOR BID - NOT FOR CONSTRUCTION

NO.	DESCRIPTION:	DATE:

SHEET TITLE:
ELECTRICAL RISER DIAGRAM

SHEET NUMBER:
E4.00

LED LUMINAIRE SCHEDULE															
(DESC) DOOR:		DISTRIBUTION:		BEAMWIDTH:		(L/L) LENS/LOUVER:									
FA - FLAT ALUMINUM		II - ANSI/IES TYPE 2 DISTRIBUTION		NSP - VERY NARROW SPOT		K19 - KSH19 .156" ACRYLIC		M - MATTE DIFFUSE CLEAR							
FS - FLAT STEEL		III - ANSI/IES TYPE 3 DISTRIBUTION		SP - SPOT		A - .125" ACRYLIC		N - NONE							
RA - REGRESSED ALUMINUM		IV - ANSI/IES TYPE 4 DISTRIBUTION		MD - MEDIUM		B - BAFFLE/LOUVER		P - POLYCARBONATE							
RS - REGRESSED STEEL		V - ANSI/IES TYPE 5 DISTRIBUTION		WD - WIDE		C - CLEAR ALZAK		R - HIGH IMPACT DR ACRYLIC							
FINISH:				VWD - VERY WIDE		F - FROSTED ACRYLIC		SS - SEMI-SPECULAR CLEAR							
PAF - PAINT AFTER FABRICATION				WW - WALL WASH		G - TEMPERED GLASS		O - OTHER (SEE DESCRIPTION)							
CFS-A - COLOR-FINISH SELECTION BY ARCHITECT						K - KSH12 .125" ACRYLIC		[DESIGN SPECIFIC BLANKS]							
(MTG) MOUNTING:						(WATT) PER:									
CL - CEILING SURFACE		RE - RECESSED				FIX - FIXTURE, FT - FOOT, LAMP									
CV - COVE		SP - SUSPENDED				(TYPE) LED		RGB - COLOR CHANGING LED							
FR - FLANGED RECESSED		SU - SURFACE				LED - LIGHT EMITTING DIODE		RGBW - COLOR CHANGING + WHITE							
P - PERIMETER		UC - UNDER CABINET				TLED - TUBULAR LED LAMP		RBSA - COLOR CHANGING + AMBER							
PL - POLE		WL - WALL				OLED - ORGANIC LED		RLED - RETROFIT LED							
		O - OTHER (SEE DESCRIPTION)				DLED - DYNAMIC TUNABLE LED		WLED - WARM DIM LED							
(TYPE) DRIVER:															
0-10V - 0-10V DIMMING		EB - ELECTRONIC		HL - HIGH/LOW (100%/50%) STEP DIM		MV - MULTI-VOLTAGE ELECTRONIC									
DALI - DIGITAL ADDRESSABLE		ELV - ELECTRONIC LOW VOLTAGE		LINE - LINE VOLTAGE DIMMING		REM - REMOTE									
DMX - DIGITAL MULTIPLEX		EM - EMERGENCY BATTERY		ML - MULTI-LEVEL SWITCHING		O - OTHER (SEE DESCRIPTION)									
CATALOG NUMBER SHALL BE CONSIDERED COMPLETE AND MATERIAL SHALL NOT BE ORDERED BY MANUFACTURER AND CATALOG NUMBER ONLY. THE COMPLETE DESCRIPTION AND THE SPECIFICATION SHALL BE COORDINATED WITH THE CATALOG NUMBER TO DETERMINE THE EXACT MATERIAL AND ACCESSORIES TO BE ORDERED. THE FIRST MANUFACTURER LISTED IS THE BASIS OF DESIGN.															
VERIFY AND COORDINATE ALL CEILING TYPES WITH LUMINAIRE MOUNTING AND TRIM REQUIREMENTS PRIOR TO THE RELEASE OF THE LUMINAIRE ORDER. CONFIRM ALL COLORS AND FINISHES OF ALL LUMINAIRE COMPONENTS WITH ARCHITECT AND INTERIOR DESIGNER PRIOR TO THE RELEASE OF THE LUMINAIRE ORDER. UNLESS INDICATED ON LIGHTING PLANS OR BELOW, REFER TO ARCHITECTURAL AND INTERIOR DESIGN ELEVATIONS, SECTIONS AND DETAILS FOR ALL SUSPENDED AND WALL MOUNTED LUMINAIRE MOUNTING HEIGHTS.															
REFER TO SPECIFICATION SECTIONS 26.51.19 FOR ADDITIONAL INFORMATION AND REQUIREMENTS. INTERIOR CORRELATED COLOR TEMPERATURE 3500K, COLOR RENDERING INDEX (CRI) AT OR ABOVE 80, UNLESS NOTED OTHERWISE. EXTERIOR CORRELATED COLOR TEMPERATURE 4000K, COLOR RENDERING INDEX (CRI) AT OR ABOVE 70, UNLESS NOTED OTHERWISE.															
ITEM	DESCRIPTION	L/L	MTG	DIMENSIONS				WATT		LED		DRIVER			
				L	W	H	DIA.	ANSI WATTS	PER	TYPE	QTY	DELIVERED LUMENS (MIN)	VOLTS	TYPE	MANUFACTURER AND MODEL
EX1	SINGLE FACED EDGE-LITE EXIT SIGN, AC ONLY, LETTERING COLOR SELECTED BY ARCHITECT, BRUSHED ALUMINUM TRIM, VERIFY BACK, SIDE, OR RECESSED MOUNTING AND ARROWS WITH PLANS.	O	CL	1'-1"	2"	9"		2	FIX	LED	1	L.E.D.	277	EB	LITHONIA LRP DUAL-LITE LES SURE-LITES CHLORIDE LIGHTALARMS SLED
EX2	DOUBLE FACED EDGE-LITE EXIT SIGN, AC ONLY, LETTERING COLOR SELECTED BY ARCHITECT, BRUSHED ALUMINUM TRIM, VERIFY BACK, SIDE, OR RECESSED MOUNTING AND ARROWS WITH PLANS.	O	CL	1'-1"	2"	9"		2	FIX	LED	1	L.E.D.	277	EB	LITHONIA LRP DUAL-LITE LES SURE-LITES CHLORIDE LIGHTALARMS SLED
F1	4" EDGE-LIT RECESSED LINEAR LED, FLAT T-BAR FLANGE, FLUSH LENS, PROVIDE WITH REMOTE DRIVER, COORDINATE FINISH WITH ARCHITECT.	O	RE	6'-0"	4"		1 69/128"	5	FT	LED	1	500 LM/FT	277	0-10V	XICO GRIDSL0T
F2	4" LED SQUARE DOWNLIGHT, CLEAR REFLECTOR, FLANGELESS TRIM, SEMI-SPECULAR, MEDIUM-WIDE DISTRIBUTION.	O	RE	4"	4"	3/4"		9	FIX	LED	1	1000 LM	277	0-10V	GOTHAM EVO SQUARE LIGHTOLIER PRESCOLITE
F2A	SIMILAR TO F2, SELF-FLANGED TRIM.	O	RE	4"	4"	3/4"		9	FIX	LED	1	1000 LM	277	0-10V	REFER TO F2
F3	6" LED SQUARE DOWNLIGHT, CLEAR, SELF-FLANGED, SEMI-SPECULAR, MEDIUM-WIDE DISTRIBUTION, WET LOCATION LISTED.	O	RE	6"	6"	6 3/4"		8	FIX	LED	1	750 LM	277	0-10V	GOHAM EVO SQUARE LIGHTOLIER
F3A	SIMILAR TO F3, FLANGELESS TRIM, PROVIDE WITH DIFFERENT LUMEN PACKAGE.	O	RE	6"	6"	6 3/4"		13	FIX	LED	1	1500 LM	277	0-10V	REFER TO F3
F4	72" ROUND PATTERN PENDANT LED WITH VERTICAL AIRCRAFT CABLE, BLACK POWER CORD, AND REMOTE DRIVER ENCLOSURE, DIRECT DISTRIBUTION, HEIGHT EFFICIENCY LAMBERTIAN OPTICS, MATTE WHITE DIFFUSER, COORDINATE FINISH WITH ARCHITECT.	O	SP			4"	6'-0"	36	FIX	LED	1	750 LM/FT	277	0-10V	LUMENWERX CURVIA 2
F5	2X2 RECESSED TROFFER LED, EDGE-LIT, SATIN-WHITE ACRYLIC LENS.	O	RE	2'-0"	2'-0"		2 49/256"	45	FIX	LED	1	4800 LM	277	0-10V	LITHONIA EPANL DAY-BRITE METALUX HUBBELL HEW
F5A	SIMILAR TO F5, PROVIDE DIFFERENT LUMEN PACKAGE.	O	RE	<varies>	2'-0"	<varies>		19	FIX	LED	1	2000 LM	277	0-10V	REFER TO F5
F6	WIDE SPREAD SQUARE BOLLARD LED WITH SHIELDED ASYMMETRIC LIGHT DISTRIBUTION, MATTE FINISH, DARKSKY APPROVED, COORDINATE EXACT COLOR WITH ARCHITECT.	O	PL			3'-0"	7"	15	FIX	LED	1	1762 LM	277	EB	BEGA B84413
F7	WALL MOUNT INDIRECT LINEAR LED, EXTRUDED ACRYLIC SPOTLESS LENS, CONTINUOUS RUN LENGTH AND PATTERN AS SHOWN ON PLANS, COORDINATE FINISH WITH ARCHITECT.	O	WL	<varies>	3 3/8"	4 1/2"		4	FT	LED	1	INDIRECT, 500 LM/FT	277	0-10V	AXIS BEAM 2
F8	FLOODLIGHT, 350 DEGREE ROTATION, 70 DEGREE TILT ANGLE, FLAT BEAM DISTRIBUTION, COORDINATE FINISH WITH ARCHITECT, MOUNTED ON CONCRETE BASE.	O	SU	7 7/7/256"	6 1/2"	4"		21	FIX	LED	1	2056 LM	277	EB	BEGA 77536 FLOODLIGHT WE-EF
F10	2 28" PERIMETER WALLWASH TRIMLESS LINEAR RECESSED LED, 3" RECESSED LENS, CONTINUOUS RUN LENGTH AND PATTERN AS SHOWN ON PLANS. CONTINUOUS RUN SHALL EXTEND VERTICALLY DOWN THE WALL. REFER TO ARCHITECTURAL PLANS, COORDINATE MOUNTING OPTIONS, EXACT LENGTH, AND FINISH WITH ARCHITECT.	O	RE	<varies>	2 1/4"		3 97/256"	5	FT	LED	1	517 LM/FT	277	0-10V	ALIGHT ACL9
F11	EXTERIOR BUILDING MOUNTED LUMINAIRE, BI-DIRECTIONAL LIGHT OUTPUT, WHITE CERAMIC COATED SAFETY GLASS, COLOR SELECTION BY ARCHITECT FROM STANDARD FINISHES	O	WL	11 3/4"	4 3/4"	10 1/2"		8	FIX	LED	1	518 LM	277	EB	BEGA 33341
F12	SUSPENDED 6" TRACK SYSTEM WITH VERTICAL AIRCRAFT CABLE, COORDINATE TRACK FINISH AND CABLE COLOR WITH ARCHITECT, COORDINATE SUSPENSION HEIGHT WITH ARCHITECT, PROVIDE ALL MOUNTING HARDWARE FOR A COMPLETE FUNCTIONING SYSTEM.	O	SP	6'-0"	1 3/8"						1		120	0-10V	LUMENTURE K-BEAM TRACK
F12A	3" CYLINDRICAL TRACK HEAD MOUNTED TO F12 TRACK SYSTEM, 25 DEGREE BEAM SPREAD, 90 DEGREE TILT, 360 DEGREE ROTATION, PROVIDE QUANTITY SHOWN ON PLANS, COORDINATE CANOPY TYPE AND FINISH WITH ARCHITECT.	O	O	0"	3"		4"	20	FIX	LED	1	2000 LM	120	0-10V	LUMENTURE T80 TRACK HEAD
F13	EXTERIOR ADJUSTABLE COMPACT FLOODLIGHT, EARTH SPIKE MOUNT, MARINE GRADE HOUSING, SILICONE WIDE BEAM OPTIC, INSTALL PER MANUFACTURERS REQUIREMENTS, CONFIRM FINISH WITH ARCHITECT.	O	O			8"	5 1/2"	16	FIX	LED	1	1330 LM	277	EB	BEGA 77685 FLOODLIGHT
F#	STANDARD DOWNLIGHT		RE			9 1/2"	6"	0	FIX	LED	1	LUMENS	120	0-10V	

LUMINAIRE SCHEDULE NOTES:

1. F9 - NOT USED

LIGHTING SEQUENCE OF OPERATION

NOTES:
1. [L#]# DENOTES THE LIGHTING SEQUENCE OF OPERATIONS FOR THIS SPACE.
2. [B#] PUSH BUTTON REFERS TO SCENE QUANTITY. CONTROL STATION SHALL BE CAPABLE OF [RAISE/LOWER AND] SWITCHING ON/OFF FOR MULTIPLE SCENES AS INDICATED ON SHEETS AND THE LIGHTING SEQUENCE OF OPERATIONS [L#]. COORDINATE QUANTITIES OF BUTTONS FOR CONTROL STATIONS WITH LIGHTING CONTROL MANUFACTURER.
3. a = SWITCH DESIGNATION FOR LIGHTING CONTROL.
4. VERIFY AND COORDINATE ALL PUSH BUTTON WALL DEVICES AND QUANTITIES OF INDIVIDUAL BUTTONS WITH SCENES AND ZONES PER LOCATION.
5. VERIFY AND COORDINATE ALL PUSH BUTTON QUANTITIES AND SCENE NAMES WITH OWNER PRIOR TO SUBMITTING ENGRAVING TEMPLATE TO MANUFACTURER.

PLAN ID	LIGHTING SWITCHED
(L1)	SEQUENCE: Dimmed lights are vacancy and scene controlled in this space. ON: Lighting zones "a", "b", "c", "d", "e", and "f" are turned on to 100% output via wall controller. ENTRANCE CONTROLLERS (3B) ("ON/OFF", AV, AND RAISE/LOWER BUTTONS): Raises lighting zones "a", "b", "c", "d", "e", and "f" to 100% output via ON pushbutton. Raise/Lower buttons on wall controller shall dim lighting zones "a", "b", "c", "d", "e", and "f". AV button shall turn off zone "a" and zone "b". The zones "b", "c", "d", and "f" shall dim to 50% output. Fixtures with "SE" designation shall be controlled with normal lights. TOUCHSCREEN: Touchscreen shall allow programming and control of all zones. Touchscreen shall include ON/OFF and Raise/Lower softkeys for all zones and a minimum of 14 groups and 7 scenes. Groups and scenes shall be verified with Owner prior to programming. ADJUST: All lights within the space are raised/lowered via wall controller. DAYLIGHTING: Lights in daylight zone indicated with "Z#F" subscript shall continuously adjust to the presence of daylighting to maintain 40FC at 30" AFF via local daylighting sensor. OFF: The lights are turned off via wall controller or touchscreen. After the space has been vacant for 15 minutes, the lights automatically turn off via vacancy sensors. Fixtures with "SE" designation shall dim to 25% output. EMERGENCY: "SE" luminaires shall turn on to 100% output when power is lost. Provide a shunt relay to allow full control during normal operation. Extend nearest normal lighting circuit to the shunt relay for normal circuit power loss monitoring.
(LS1)	SEQUENCE: Switched lights are vacancy controlled in this space. ON: The lights are manually turned on via wall controller. OFF: The lights turn on via wall controller. After the space has been vacant for 15 minutes, the lights are automatically turned off via vacancy sensor.
(LS2)	Sequence: Switched luminaires are controlled in this space by time clock. Refer to 2/E1.01 for lighting control diagram. ON: All luminaires shall turn on at a preset time (owner determined) via time clock or by lighting contactor HAND mode. OFF: Luminaires are turned off at a preset time (owner determined) via time clock or by lighting contactor OFF mode. EMERGENCY: "SE" luminaires shall turn on to 100% output when power is lost. Provide a shunt relay to allow full control during normal operation. Extend normal lighting circuit to the shunt relay for normal circuit power loss monitoring.

LIGHTING CONTACTOR SCHEDULE

SWITCH TYPE:		REMARKS:					
EH - ELECTRICALLY HELD		HOA - HAND OFF AUTO					
MH - MECHANICALLY HELD							
ITEM	SWITCH TYPE	CONTACT VOLTAGE	# OF POLES (CONTACTOR)	AMPS	NEMA ENCLOSURE	COIL VOLTAGE	REMARKS
LC-EC	EH	300	6	30	1	120	HOA



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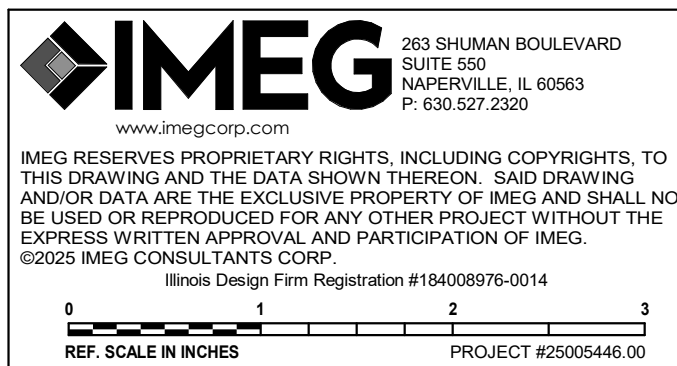
NO.	DESCRIPTION:	DATE:

SHEET TITLE:

ELECTRICAL
SCHEDULES

SHEET NUMBER:

E5.00





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DKA PROJECT NO: 24-027

KEY PLAN:

SHEET STATUS: 05/16/2025
ISSUED FOR BID - NOT
FOR CONSTRUCTION

NO.	DESCRIPTION:	DATE:

SHEET TITLE:
ELECTRICAL PANEL
SCHEDULES

SHEET NUMBER:

E6.00

5/16/2025 6:31:34 PM

MOUNTING: SURFACE
ENCLOSURE: NEMA 1
FED FROM:
LOCATION: JANITOR B164a

SINGLE TUB
SOLID NEUTRAL
GROUND BUS

MAIN: 100 MLO
VOLTS: 480/277 Wye
PHASE: 3
WIRE: 4
SCCR: 14 kA

NOTES:

KEY	CKT NO.	LOAD DESCRIPTION	OCPD AMPS	WIRE SIZE			A	B	C	WIRE SIZE			OCPD AMPS	LOAD DESCRIPTION	CKT NO.	KEY	
				P	H	N G				G	N	H					P
--	1	EXISTING LOAD	20	1	--	--	0	0			--	--	1	20	EXISTING LOAD	2	--
--	3	EXISTING LOAD, 'E	20	1	--	--		0.21	0		--	--	1	20	EXISTING LOAD	4	--
--	5	EXISTING LOAD	20	1	--	--			0	0.11	10	10	1	20	Lighting	6	--
--	7	EXISTING LOAD	20	1	--	--	0	0			--	--	1	20	EXISTING LOAD	8	--
--	9	EXISTING LOAD	20	1	--	--		0	0		--	--	1	20	EXISTING LOAD	10	--
--	11	EXISTING SPACE	--	1	--	--			--	0	--	--	1	20	EXISTING LOAD	12	--
--	13						0	--		--	--	--	1	--	EXISTING SPACE	14	--
--	15	EXISTING LOAD	20	3	--	--		0	--	--	--	--	1	--	EXISTING SPACE	16	--
--	17								0	--	--	--	1	--	EXISTING SPACE	18	--
			Total Load:			0.00 kVA			0.21 kVA			0.11 kVA					
			Total Amps:			0.00			0.82			0.46					

LOAD SUMMARY

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	TOTALS*
Lighting	0.32 kVA	100.00%	0.32 kVA	TOTAL CONNECTED LOAD: 0.32 kVA
				TOTAL ESTIMATED DEMAND LOAD: 0.32 kVA
				TOTAL CONNECTED AMPS: 0.38 A
				TOTAL ESTIMATED DEMAND AMPS: 0.4

*TOTAL DEMAND CALCS SUBTRACT ANY REDUNDANT LOAD AND THE SMALLER OF ANY NONCOINCIDENT HVAC LOADS. THIS CALC IS DONE AT EACH PANEL.

CIRCUIT KEY NOTES: 'E' = EXTEND EXISTING CIRCUIT TO NEW LIGHTS. MATCH CONDUIT AND WIRE, MINIMUM 2#12 & 1#12 EGC IN 3/4".

PANEL HEC														
MOUNTING: SURFACE ENCLOSURE: NEMA 1 FED FROM: EXISTING SWITCHBOARD MSB-1 LOCATION: Room 102					SINGLE TUB SOLID NEUTRAL GROUND BUS					MAIN: 250 MCB VOLTS: 480/277 Wye PHASE: 3 WIRE: 4 SCCR: 42 kA				
NOTES:														
K E Y	CKT NO.	LOAD DESCRIPTION	OCPD AMPS	P	WIRE SIZE H N G	A	B	C	WIRE SIZE G N H	OCPD AMPS	LOAD DESCRIPTION	CKT NO.	K E Y	
	3	RTU-1	80	3	3 -- 8	13.33 9.07	13.33 9.07		10 -- 4	3	60	RTU-2	4	
	5							13.33 9.07					6	
	7					0 --			-- -- --	1 --	SPACE		8 --	
--	9	SPARE	60	3	-- -- --		0 --		-- -- --	1 --	SPACE		10 --	
	11							0 --	-- -- --	1 --	SPACE		12 --	
--	13	SPACE	--	1	-- -- --	-- -- --			-- -- --	1 --	SPACE		14 --	
--	15	SPACE	--	1	-- -- --	-- -- --	-- -- --		-- -- --	1 --	SPACE		16 --	
--	17	SPACE	--	1	-- -- --	-- -- --		-- -- --	-- -- --	1 --	SPACE		18 --	
--	19	SPACE	--	1	-- -- --	-- -- --		-- -- --	-- -- --	1 --	SPACE		20 --	
--	21	SPACE	--	1	-- -- --	-- -- --		-- -- --	-- -- --	1 --	SPACE		22 --	
Total Load:						22.40 kVA	22.40 kVA	22.40 kVA						
Total Amps:						80.87	80.87	80.87						
LOAD SUMMARY														
LOAD CLASSIFICATION			CONNECTED LOAD		DEMAND FACTOR		ESTIMATED DEMAND		TOTALS*					
Power			67.2 kVA		100.00%		67.2 kVA		TOTAL CONNECTED LOAD: 67.20 kVA					
									TOTAL ESTIMATED DEMAND LOAD: 67.2 kVA					
									TOTAL CONNECTED AMPS: 80.83 A					
									TOTAL ESTIMATED DEMAND AMPS: 80.8					
*TOTAL DEMAND CALCS SUBTRACT ANY REDUNDANT LOAD AND THE SMALLER OF ANY NONCOINCIDENT HVAC LOADS. THIS CALC IS DONE AT EACH PANEL.														
CIRCUIT KEY NOTES:														

EXISTING PANEL LA1

MOUNTING: RECESSED
ENCLOSURE: NEMA 1
FED FROM: EXISTING 'MDP-B'
LOCATION: SERVICE CORRIDOR B180A

SINGLE TUB
SOLID NEUTRAL
GROUND BUS

MAIN: 100 MLO
VOLTS: 480/277 Wye
PHASE: 3
WIRE: 4
SCCR: 35 kA

NOTES:

KEY	CKT NO.	LOAD DESCRIPTION	OCPD AMPS	P	WIRE SIZE			A	B	C	WIRE SIZE			OCPD AMPS	LOAD DESCRIPTION	CKT NO.	KEY		
					H	N	G				G	N	H						
--	1	EXISTING LOAD	20	1	--	--	--	0	0		--	--	--	1	20	EXISTING LOAD	2	--	
--	3	EXISTING LOAD	20	1	--	--	--		0	0		--	--	1	20	EXISTING LOAD	4	--	
--	5	EXISTING LOAD	20	1	--	--	--			0	0		--	1	20	EXISTING LOAD	6	--	
--	7	EXISTING LOAD	20	1	--	--	--	0	0.18			--	--	1	20	EXISTING LOAD	8	'E	
--	9	EXISTING LOAD	20	1	--	--	--			0	0.03		--	1	20	EXISTING LOAD	10	'E	
--	11	EXISTING LOAD	20	1	--	--	--			0	0.21		--	1	20	EXISTING LOAD	12	'E	
--	13	EXISTING SPARE	20	1	--	--	--	0	0.23			12	12	12	1	20	Lighting	14	'RP
--	15	EXISTING SPARE	20	1	--	--	--			0	0	--	--	1	20	EXISTING SPARE	16	--	
--	17	EXISTING SPARE	20	1	--	--	--			0	0	0.36	10	10	1	20	Lighting	18	--
--	19	EXISTING SPARE	20	1	--	--	--	0	0.02			10	10	1	20	Lighting	20	'RP	
--	21	EXISTING SPARE	20	1	--	--	--			0	1.16	10	10	1	20	Lighting	22	--	
--	23	EXISTING SPARE	20	1	--	--	--			0	0.31	8	8	1	20	Lighting	24	'C	
--	25	EXISTING SPARE	20	1	--	--	--	0	0.36			10	10	1	20	Lighting	26	--	
--	27	EXISTING SPARE	20	1	--	--	--			0	0.21	10	10	1	20	Lighting	28	--	
--	29	EXISTING SPARE	20	1	--	--	--			0	0	--	--	1	20	EXISTING SPARE	30	--	
Total Load:			0.79 kVA	1.41 kVA	0.88 kVA														
Total Amps:			2.84	5.12	3.22														

LOAD SUMMARY					TOTALS*	
LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND			
Lighting	3.069 kVA	100.00%	3.069 kVA	TOTAL CONNECTED LOAD:	3.07 kVA	
				TOTAL ESTIMATED DEMAND LOAD:	3.069 kVA	
				TOTAL CONNECTED AMPS:	3.69 A	
				TOTAL ESTIMATED DEMAND AMPS:	3.7	

*TOTAL DEMAND CALCS SUBTRACT ANY REDUNDANT LOAD AND THE SMALLER OF ANY NONCOINCIDENT HVAC LOADS. THIS CALC IS DONE AT EACH PANEL.

CIRCUIT KEY NOTES: "RP" = THROUGH EXISTING LIGHT PANEL, "RP-1",
"E" = EXTEND EXISTING CIRCUIT TO NEW LIGHTS, MATCH CONDUIT AND WIRE, MINIMUM 2#12 & 1#12 EGC IN 3/4".
"C" = ROUTE, CIRCUIT VIA LIGHTING CONTACTOR LC-EG, REFER TO TABLE 2E1.01

SHEET NOTES:
1. NO WORK THIS SHEET FOR REFERENCE ONLY.



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DKA PROJECT NO: 24-027

KEY PLAN:

SHEET STATUS: 05/16/2025
**ISSUED FOR BID - NOT
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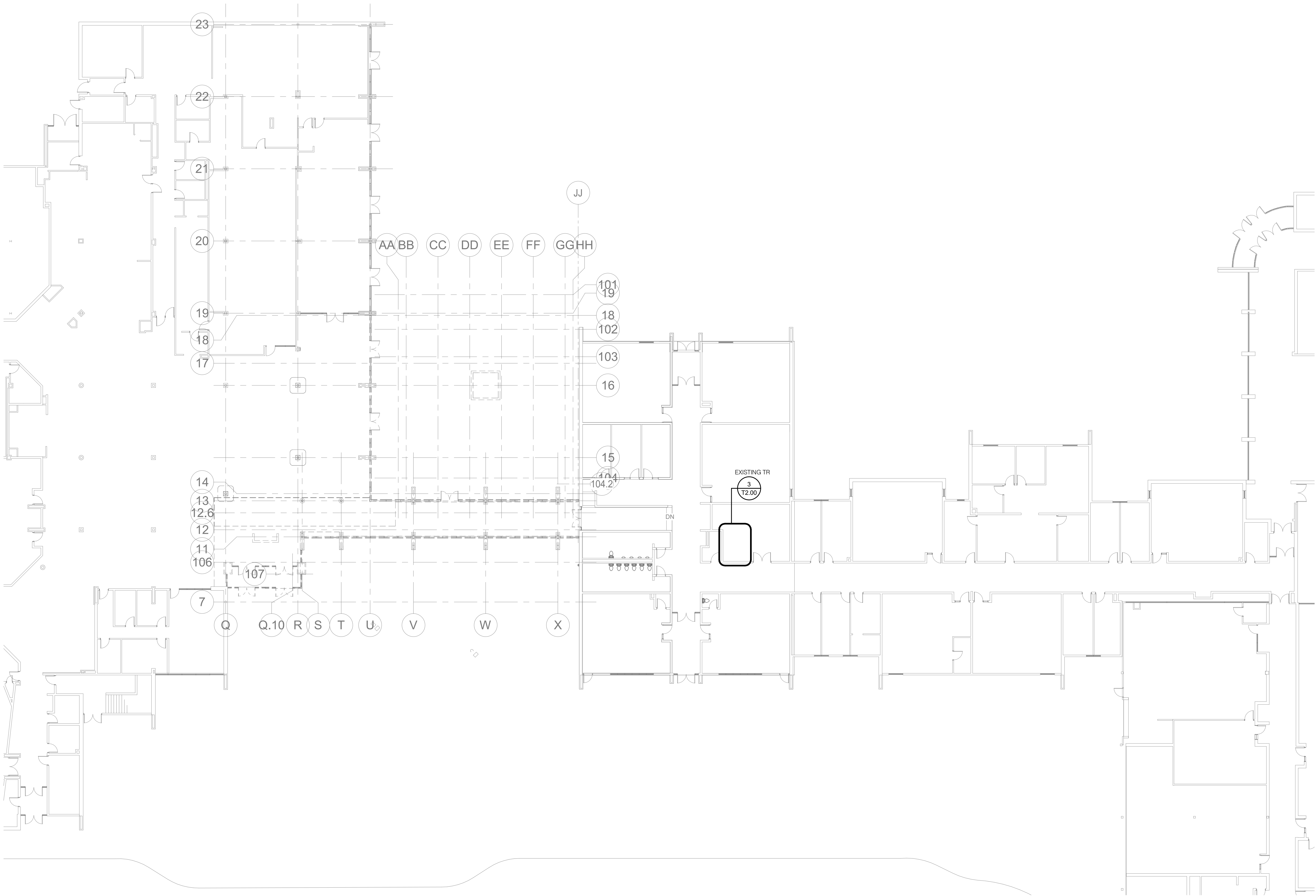
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SHEET TITLE:
**OVERALL PLAN
DEMOLITION -
TECHNOLOGY**


SHEET NUMBER:

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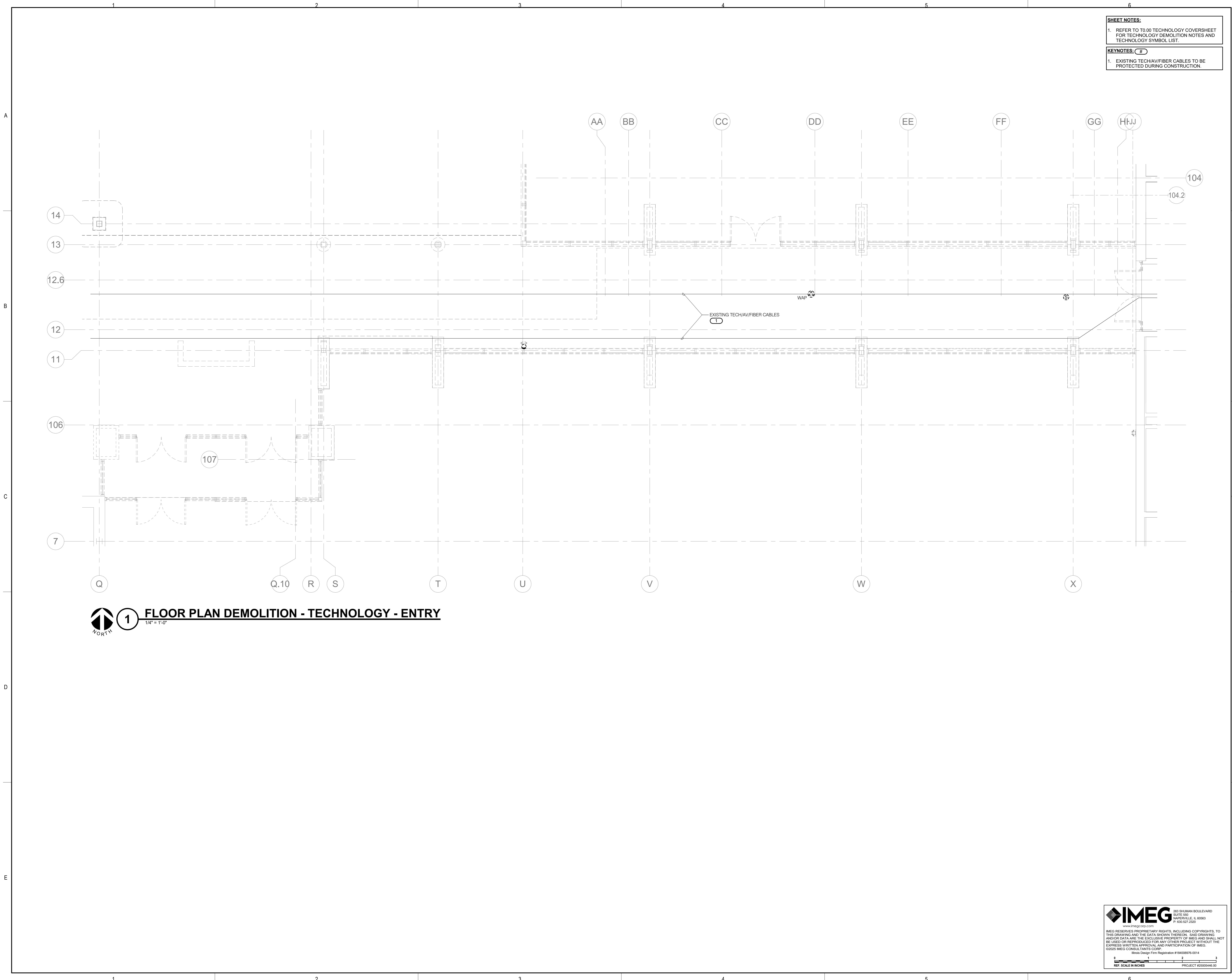
1 **OVERALL PLAN DEMOLITION - TECHNOLOGY**
1/16" = 1'-0"



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DKA PROJECT NO: 24-027

KEY PLAN:

SHEET STATUS: 05/16/2025
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NO.	DESCRIPTION:	DATE:

SHEET TITLE:
**FLOOR PLAN
DEMOLITION -
TECHNOLOGY -
ENTRY**

SHEET NUMBER:

TD1.02

5/16/2025 6:40:05 PM



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KEY PLAN:

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**ISSUED FOR BID - NOT
FOR CONSTRUCTION**

NO.	DESCRIPTION:	DATE:

SHEET TITLE:
**OVERALL PLAN -
TECHNOLOGY**

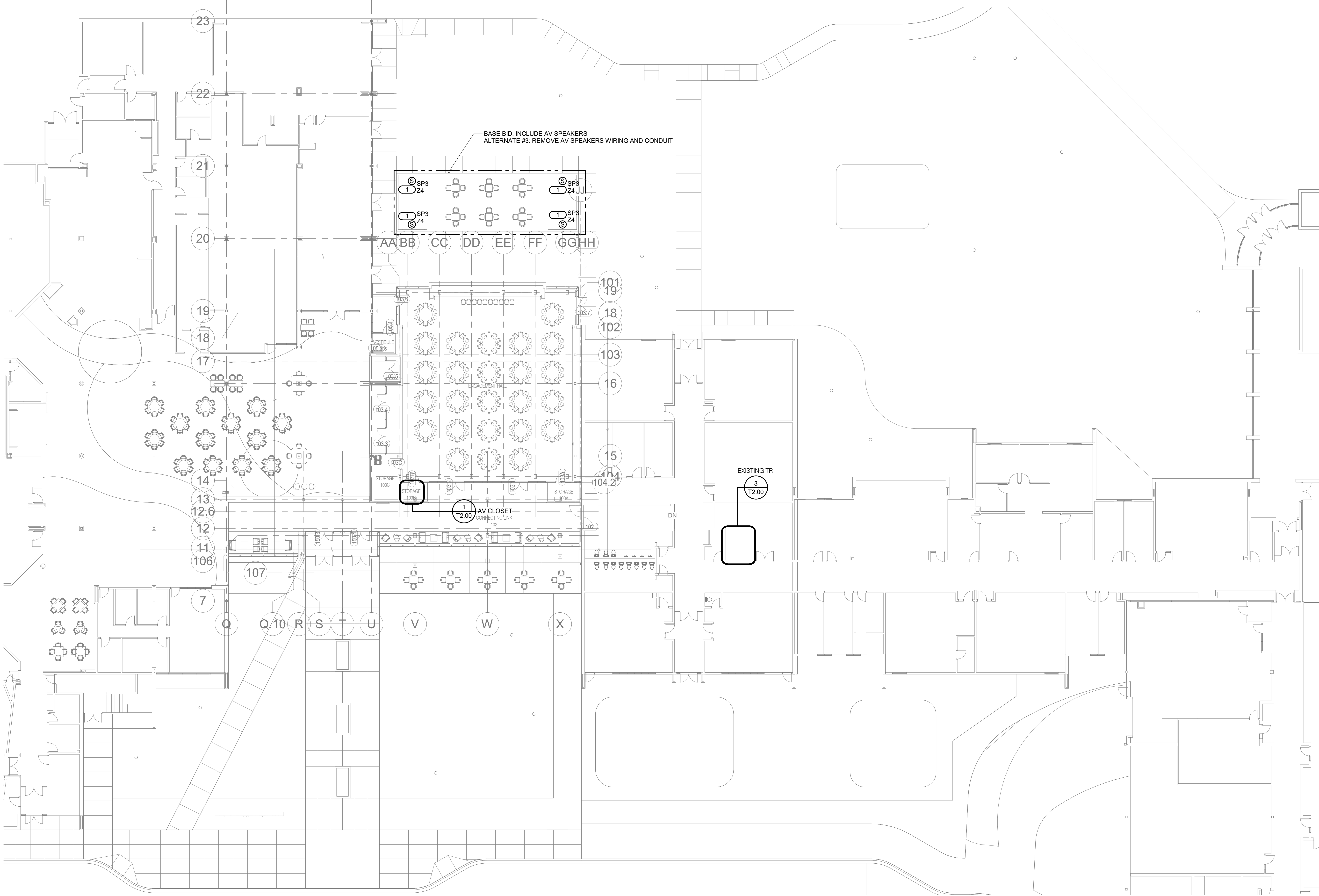
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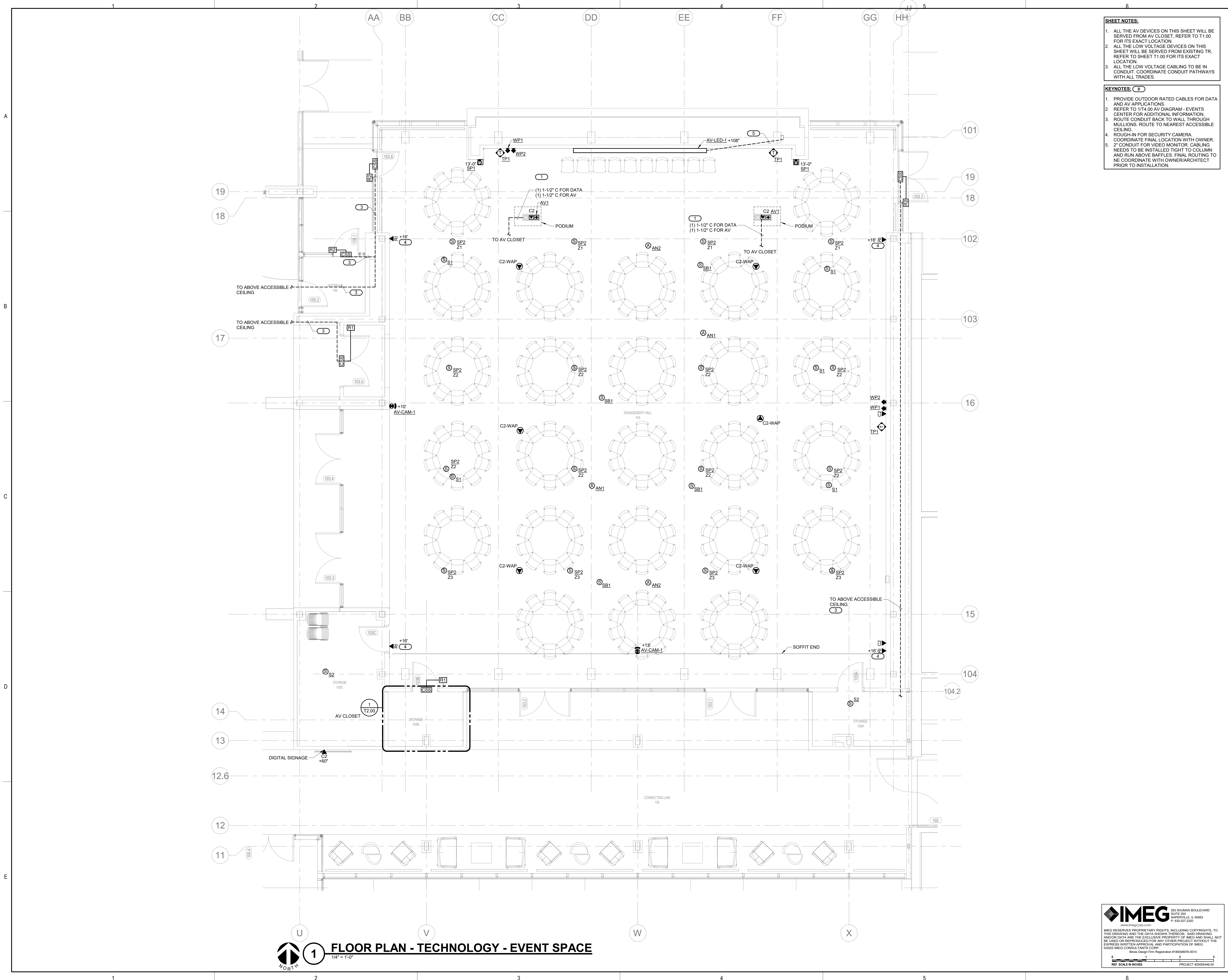
T1.00

5/16/2025 6:40:09 PM

- SHEET NOTES:**
1. ALL THE AV DEVICES ON THIS SHEET WILL BE SERVED FROM AV CLOSET. REFER TO T1.00 FOR ITS EXACT LOCATION.
 2. ALL THE LOW VOLTAGE CABLING TO BE IN CONDUIT. COORDINATE CONDUIT PATHWAYS WITH ALL TRADES.

- KEYNOTES:** (C#)
1. ROUTE 1" C FROM SPEAKER LOCATION TO AV CLOSET.





- SHEET NOTES:**
1. ALL THE AV DEVICES ON THIS SHEET WILL BE SERVED FROM AV CLOSET. REFER TO T1.00 FOR ITS EXACT LOCATION.
 2. ALL THE LOW VOLTAGE DEVICES ON THIS SHEET WILL BE SERVED FROM EXISTING TR. REFER TO SHEET T1.00 FOR ITS EXACT LOCATION.
 3. ALL THE LOW VOLTAGE CABLING TO BE IN CONDUIT. COORDINATE CONDUIT PATHWAYS WITH ALL TRADES.
- KEYNOTES: (C #)**
1. PROVIDE OUTDOOR RATED CABLES FOR DATA AND AV APPLICATIONS.
 2. REFER TO 1/4.00 AV DIAGRAM - EVENTS CENTER FOR ADDITIONAL INFORMATION.
 3. ROUTE CONDUIT BACK TO WALL THROUGH MULLIONS. ROUTE TO NEAREST ACCESSIBLE CEILING.
 4. ROUGH-IN FOR SECURITY CAMERA. COORDINATE FINAL LOCATION WITH OWNER. 2" CONDUIT FOR VIDEO MONITOR. CABLING NEEDS TO BE INSTALLED TIGHT TO COLUMN AND RUN ABOVE BAFFLES. FINAL ROUTING TO NE COORDINATE WITH OWNER/ARCHITECT PRIOR TO INSTALLATION.



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KEY PLAN:

SHEET STATUS: 05/16/2025
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NO.	DESCRIPTION:	DATE:

SHEET TITLE:
FLOOR PLAN - TECHNOLOGY - EVENT SPACE

SHEET NUMBER:

T1.01

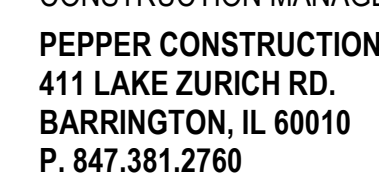
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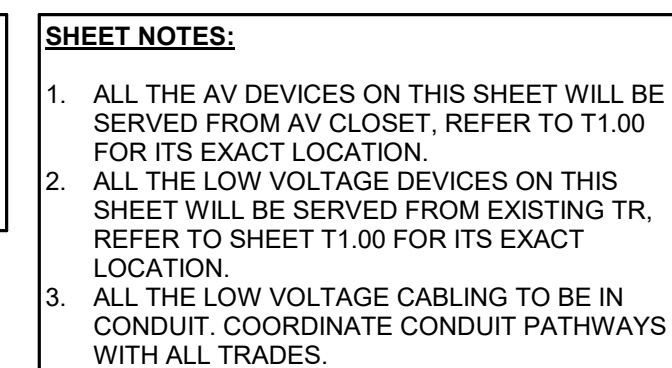
1 FLOOR PLAN - TECHNOLOGY - EVENT SPACE
1/4" = 1'-0"



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T1.02

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1 FLOOR PLAN - TECHNOLOGY - ENTRY





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DKA PROJECT NO: 24-027

KEY PLAN:

SHEET STATUS: 05/16/2025
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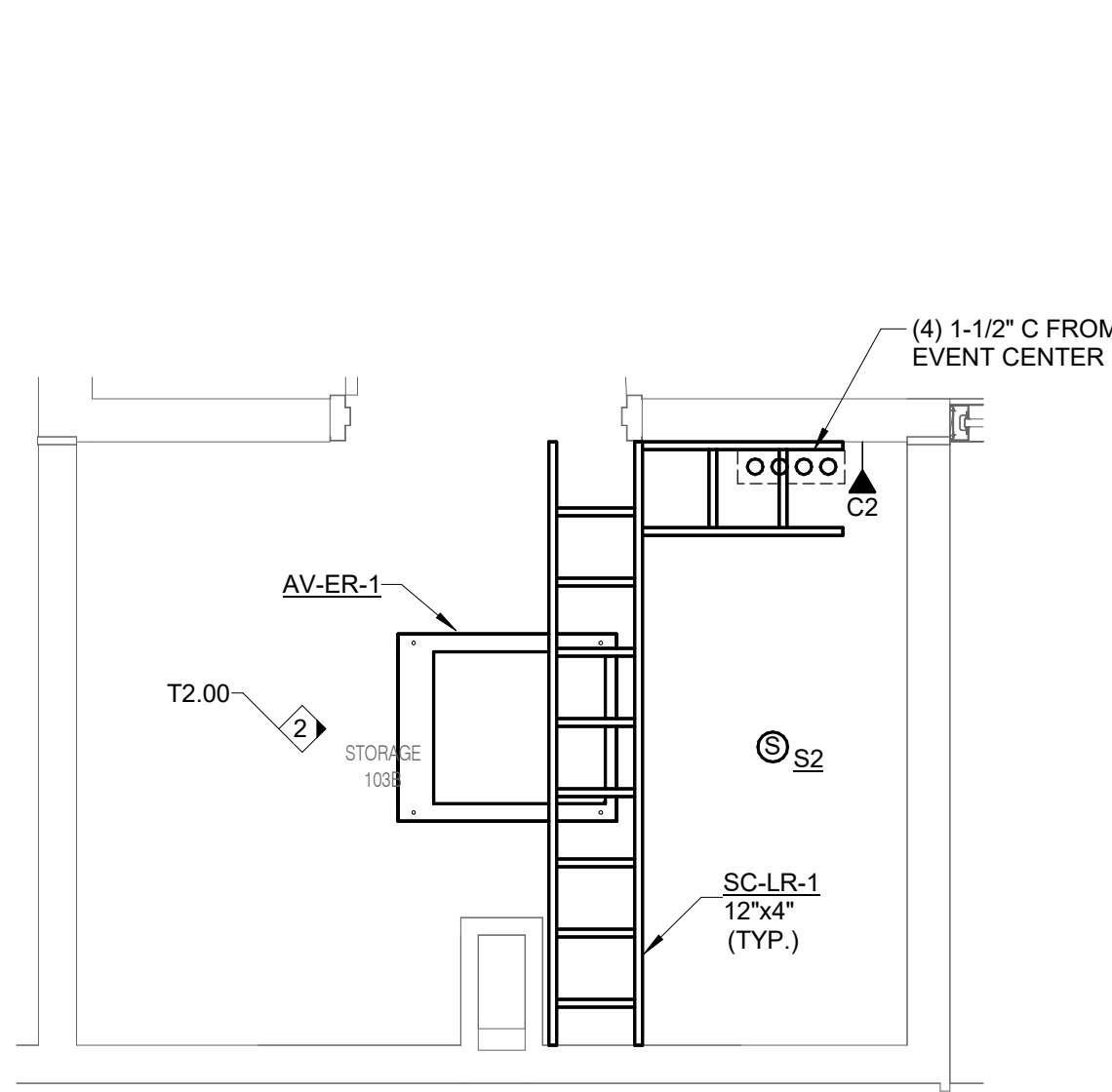
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TECHNOLOGY
ENLARGED PLANS

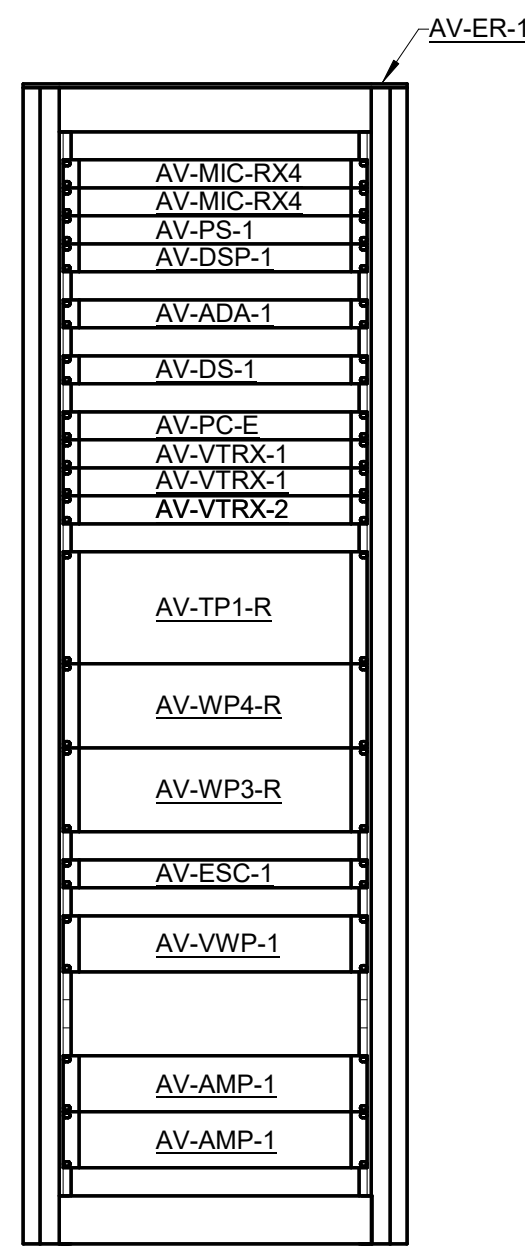
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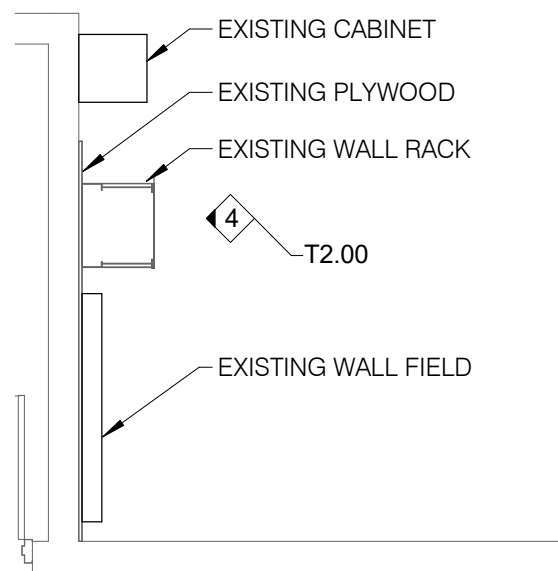
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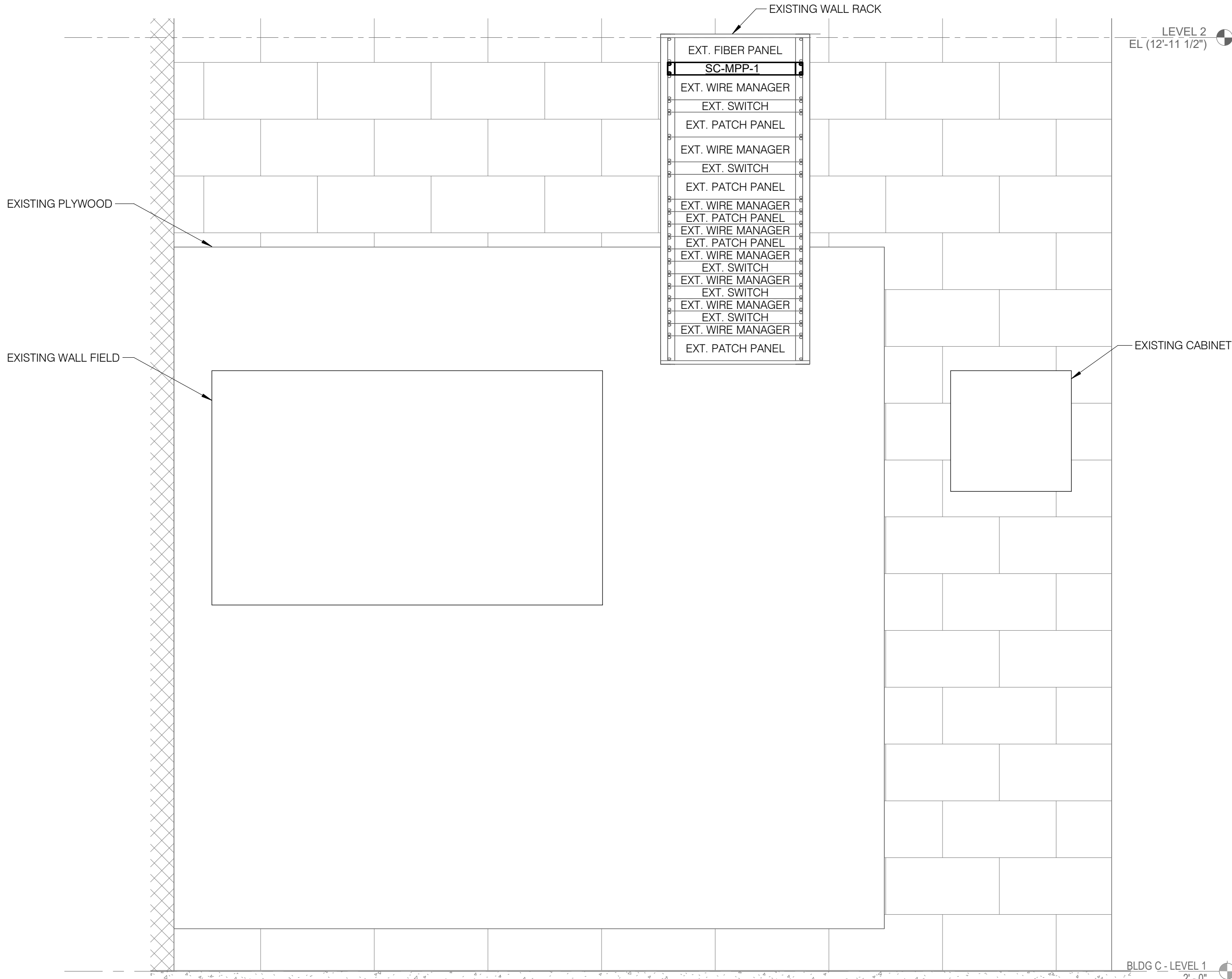
1 EQUIPMENT ROOM LAYOUT - AV CLOSET
1/2" = 1'-0"



2 AV CABINET ELEVATION
1" = 1'-0"



3 EQUIPMENT ROOM LAYOUT - EXISTING TR
1/4" = 1'-0"



4 EQUIPMENT RACK ELEVATION - EXISTING TR
1" = 1'-0"

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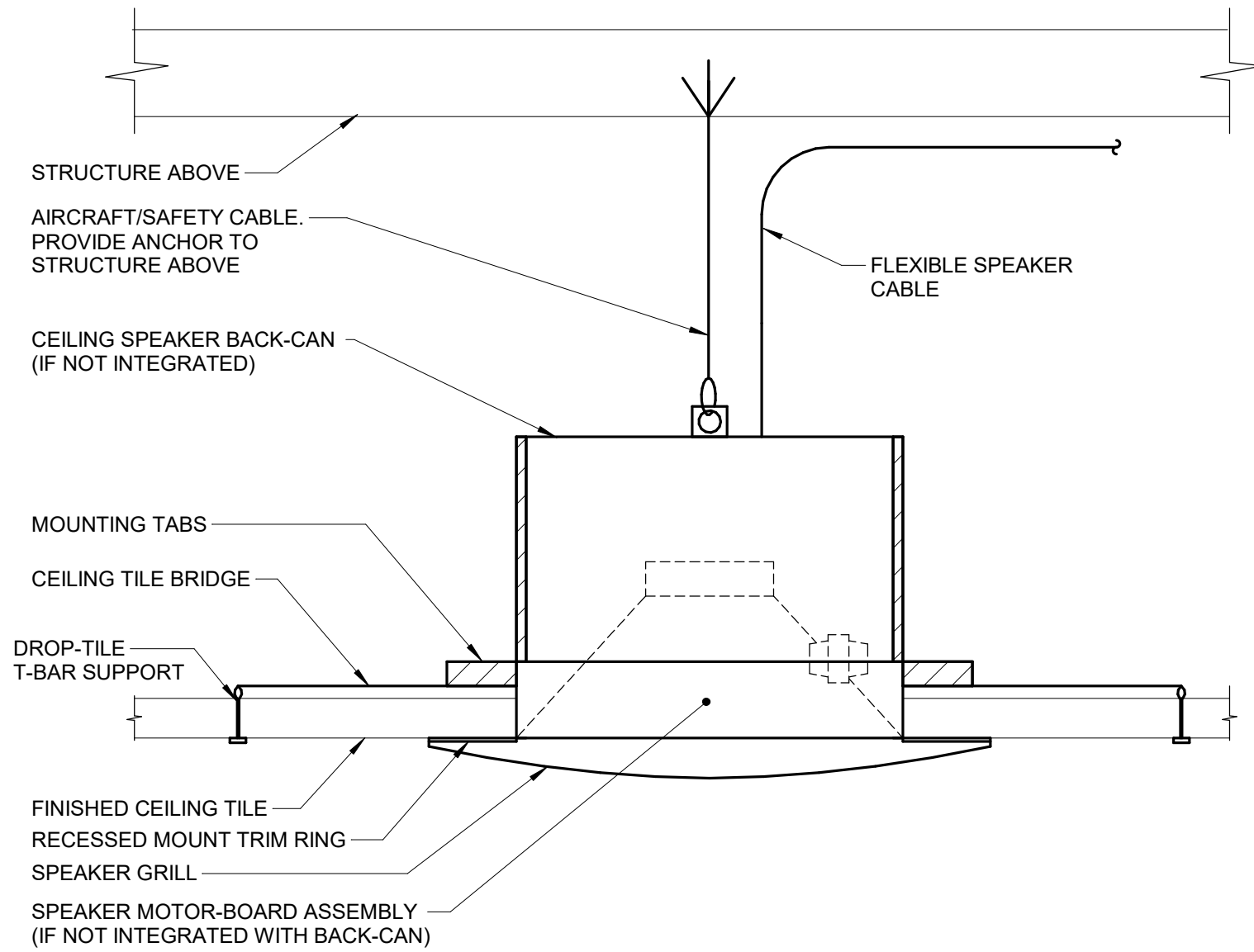


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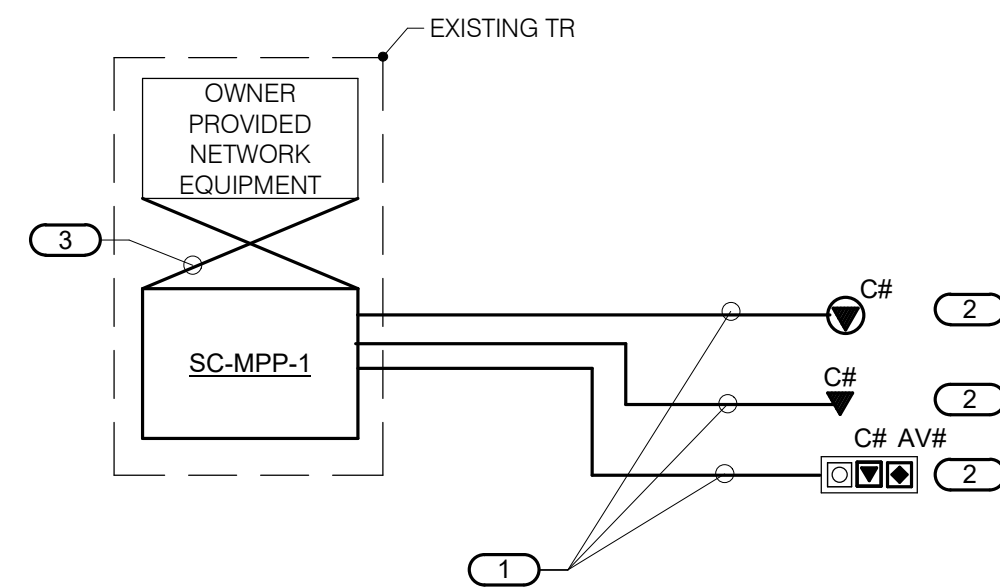
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- NOTES:
- WHERE SUPPORTS ATTACH TO METAL ROOF DECKING, EXCLUDING CONCRETE ON METAL DECKING, DO NOT EXCEED 25 LBS. PER HANGER AND A MINIMUM SPACING OF 2'-0" ON CENTER. THIS 25 LB. LOAD AND 2'-0" SPACING INCLUDE ELECTRICAL AND MECHANICAL ITEMS HANGING FROM DECK. IF THE HANGER RESTRICTIONS CANNOT BE ACHIEVED, THE ADDITION OF SUPPLEMENTAL FRAMING OFF STEEL FRAMING WILL BE REQUIRED.

2 CEILING SPEAKER MOUNTING DETAIL

NO SCALE

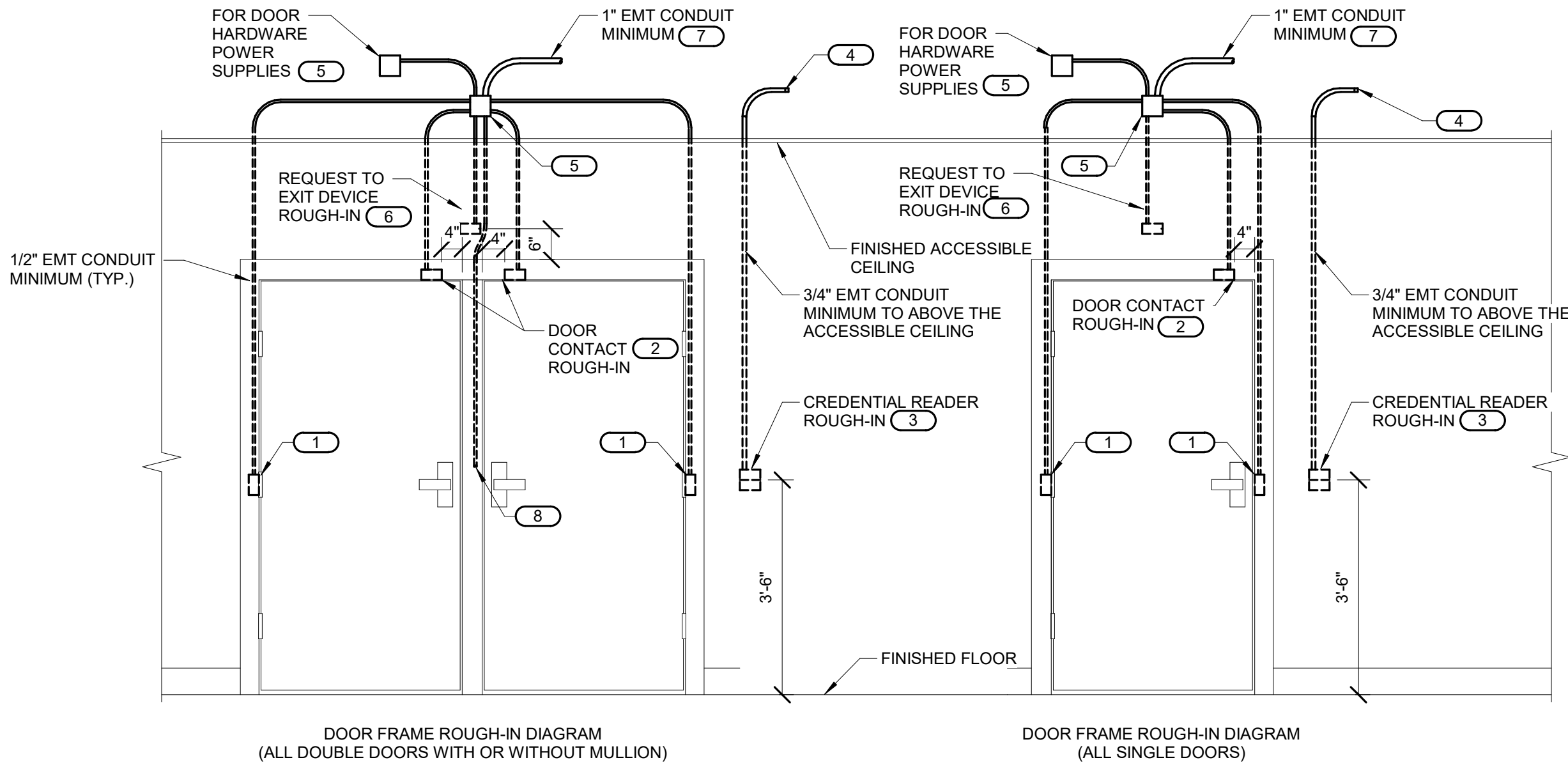


- NOTES:
- THIS RISER IS DIAGRAMMATIC AND MAY NOT SHOW ACTUAL ROUTING OR QUANTITIES OF MATERIALS SHOWN. THIS RISER IS SHOWN FOR CLARIFICATION OF CONNECTIONS, LOCATIONS AND CABLE TYPE. ALL INFORMATION OUTLETS ARE TYPICAL OF THE OUTLETS IN THE AREA SHOWN. REFER TO FLOOR PLANS FOR MORE SPECIFIC ROUTING INFORMATION. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

- KEYNOTES:
- 23 GAUGE, 4-PAIR, CATEGORY 6, UNSHIELDED TWISTED PAIR CABLE. SEE SPECIFICATIONS.
 - REFER TO INFORMATION OUTLET SCHEDULE ON T600 AND THE FLOOR PLANS FOR QUANTITY OF CABLES AND JACKS TO BE INSTALLED AT EACH INFORMATION OUTLET.
 - RJ-45 TO RJ-45 CATEGORY CAT 6 UTP PATCH CORD. SEE SPECIFICATIONS.

3 CONNECTIVITY RISER DIAGRAM - EXISTING TR

NO SCALE



- NOTES:
- CONFIGURATIONS SHOWN IN THE DETAIL ABOVE ARE DIAGRAMMATIC, INTENDED TO DESCRIBE THE CONTROLLED SECURITY SCHEME ROUGH-IN REQUIREMENTS OF THE DOORS. DETAILS ABOVE MAY NOT ACCURATELY REPRESENT DOOR SIZE, DOOR SWING, DOOR HARDWARE OR DOOR FUNCTIONALITY. REFER TO ARCHITECTURAL DOOR HARDWARE SCHEDULE, DOOR HARDWARE GROUPS AND DOOR HARDWARE SPECIFICATIONS FOR COMPLETE INFORMATION. MIRROR THE DETAIL AS REQUIRED.
 - ROUGH IN SHOWN IN THE DETAIL ABOVE REPRESENTS THE MINIMUM REQUIREMENTS FOR ALL CONTROLLED SECURITY SYSTEM DEVICES AND CABLING UNLESS OTHERWISE NOTED. COORDINATE EXACT REQUIREMENTS WITH SELECTED DOOR MATERIALS, DOOR HARDWARE, AND CONTROLLED SECURITY DEVICES AND CABLING PRIOR TO INSTALLATION.
 - ALL CABLING IN WALLS WHERE EXPOSED ON VERTICAL SURFACES SHALL BE INSTALLED IN EMT CONDUIT OR SURFACE MOUNT RACEWAY. CABLING ROUTED HORIZONTALLY ABOVE THE ACCESSIBLE CEILING MAY BE INSTALLED FREE-AIR CABLING PROPERLY RATED FOR THE CEILING ENVIRONMENT.
 - THE ELECTRICAL OR SECURITY CONTRACTOR SHALL NOT MODIFY ANY FIRE RATED DOOR AND/OR DOOR FRAME. REFER TO THE ARCHITECTURAL DOOR SCHEDULE, DOOR HARDWARE SCHEDULE, AND DOOR HARDWARE SPECIFICATION FOR ADDITIONAL INFORMATION. MODIFICATION TO ANY FIRE RATED DOOR AND/OR FRAME WILL REQUIRE A RE-CERTIFICATION OF THE DOOR AND FRAME WITH THE LOCAL AUTHORITY HAVING JURISDICTION (AHJ).
 - INSTALLING CONTRACTOR SHALL FURNISH AND INSTALL FIRESTOP MATERIALS FOR ALL CONTROLLED SECURITY SCHEME ROUGH-INS PER PROJECT REQUIREMENTS. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION AND REQUIREMENTS.
 - REFER TO THE CONTROLLED SECURITY SCHEME SCHEDULE ON T3.01 FOR ADDITIONAL INFORMATION.
 - INSTALLATION SHALL INCLUDE ALL POWER REQUIRED FOR SYSTEM OPERATION INCLUDING +120VAC. REFER TO THE SUGGESTED MATRIX OF SCOPE RESPONSIBILITY FOR ADDITIONAL INFORMATION.

KEYNOTES:

- PROVIDE JUNCTION BOXES IN THE DOOR FRAME WHERE SHOWN ON THIS DETAIL. ROUGH-IN SHALL BE PROVIDED WHETHER THE CURRENT SECURITY SCHEME UTILIZES THEM OR NOT. ALL CONDUITS SHALL BE EMT CONDUIT UNLESS OTHERWISE NOTED. FLEXIBLE CONDUIT OF ANY TYPE WILL NOT BE ACCEPTED. COORDINATE INSTALLATION WITH ON-SITE DOOR FRAME INSTALLATION CONTRACTOR.
- ALL DOOR POSITION SWITCHES ARE REQUIRED TO BE RECESSED UNLESS OTHERWISE NOTED. ELECTRIC HINGE MONITORS ARE NOT AN ACCEPTABLE REPLACEMENT FOR THE RECESSED DOOR POSITION SWITCH.
- 4" SQUARE BACKBOX WITH SINGLE GANG PLASTER RING. PROVIDE 2 1/2" DEEP MASONRY BOX WHERE APPLICABLE. REFER TO FLOOR PLAN(S) FOR ACTUAL CREDENTIAL READER TYPE AND ROUGH-IN LOCATIONS.
- CONDUIT SHALL ROUTE FROM THE CREDENTIAL READER TO THE SECURED SIDE OF THE DOOR. CONDUIT SHALL ROUTE TO THE NEAREST ACCESSIBLE CEILING. PROVIDE A NYLON BUSHING ON CONDUIT END.
- MOUNT A MINIMUM 4" SQUARE 2-1/8" DEEP JUNCTION BOX WITH BLANK COVER PLATE ON THE SECURED SIDE OF THE DOOR ABOVE ACCESSIBLE CEILING. INSTALLING CONTRACTOR SHALL SIZE THE JUNCTION BOXES PER SYSTEM INSTALLATION REQUIREMENTS AND APPLICABLE CODES. MAINTAIN ACCESS TO THE JUNCTION BOX.
- PROVIDE A HORIZONTALLY MOUNTED SINGLE GANG BACKBOX FOR THE REQUEST TO EXIT SENSOR. REFER TO THE CONTROLLED SECURITY SCHEME SCHEDULE ON T3.01 FOR DOORS THAT REQUIRE THIS ROUGH-IN.
- CONDUIT SHALL ROUTE TO THE NEAREST ACCESSIBLE CEILING. PROVIDE A NYLON BUSHING ON CONDUIT END.

1 CONTROLLED SECURITY SCHEME DOOR ROUGH-IN DETAIL

NO SCALE

CONTROLLED SECURITY SCHEME (CSS) TYPE SCHEDULE

1. ELECTRONIC DOOR HARDWARE SUCH AS ELECTRIC STRIKES, ELECTRIC LATCH RETRACTION, ETC. SHALL BE PROVIDED AND INSTALLED BY OTHERS.
2. REFER TO THE TECHNOLOGY EQUIPMENT SCHEDULE FOR CREDENTIAL READER TYPE INFORMATION.

DOOR #																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
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Illinois Design Firm Registration #19628976-0314
REV. SCALE IN INCHES PROJECT #20250446-02

SHEET STATUS: 05/16/2025

ISSUED FOR BID - NOT FOR CONSTRUCTION

NO.	DESCRIPTION:	DATE:

SHEET TITLE:
TECHNOLOGY DETAILS

SHEET NUMBER:

T3.00

5/16/2025 6:40:17 PM



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DIKA PROJECT NO.: 24-027

KEY PLAN

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[illegible]

TECHNOLOGY DIAGRAMS

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T4.00

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KEY PLAN:

SHEET STATUS: 05/16/2025
ISSUED FOR BID - NOT
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NO.	DESCRIPTION:	DATE:

SHEET TITLE:
TECHNOLOGY
SCHEDULES

SHEET NUMBER:

T5.00

5/16/2025 6:40:18 PM

TECHNOLOGY EQUIPMENT SCHEDULE

THE EQUIPMENT LIST ABBREVIATIONS AND THE TECHNOLOGY EQUIPMENT SCHEDULE ARE FOR THE CONVENIENCE OF THE CONTRACTOR. EACH CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFICATION OF QUANTITIES AND SHALL FURNISH ALL MATERIAL REQUIRED, WHETHER SPECIFIED OR NOT, TO PRODUCE A SATISFACTORY WORKING SYSTEM.

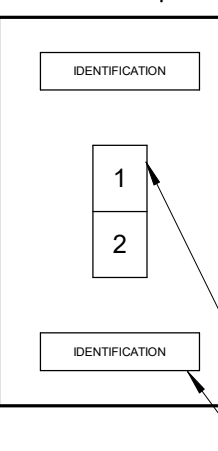
CATALOG NUMBERS ARE NOT TO BE CONSIDERED COMPLETE BUT ARE GIVEN ONLY TO AID THE CONTRACTOR IN THE SEARCH FOR MATERIAL. NO MATERIAL SHALL BE ORDERED BY MANUFACTURER NUMBER ONLY. EACH CONTRACTOR SHALL FIRST READ THE COMPLETE DESCRIPTION OF THE MATERIAL ON THESE DRAWINGS AND SPECIFICATIONS. THE FIRST MANUFACTURER LISTED IS THE BASIS OF DESIGN. "STANDARD COLOR" INDICATES FACTORY FINISH AVAILABLE AT NO ADDITIONAL CHARGE.

EQUIPMENT LIST ABBREVIATION	EQUIPMENT LIST DESCRIPTION	MANUFACTURER AND MODEL
PA-S1-C	PENDANT SPEAKER, WIDE DISPERSION 4-1/2" DRIVER, SELECTABLE POWER TAPS VIA REAR-MOUNTED CONTROL; 32, 16, 8, 4, 2, 1 WATTS @ 70V, 8 oz CERAMIC MAGNET, 70.7 VOLTS, PROVIDE BACK BOX AND MOUNTING HARDWARE AS NECESSARY FOR INSTALLATION IN LAY-IN CEILING. REFER TO SPECIFICATION SECTION 27 51 13 FOR CONDUIT REQUIREMENTS AND ADDITIONAL INFORMATION.	BOGEN MPS1B ATLACOM
PA-S2-C	PROVIDE COMPLETE WITH HANGING CABLE KIT CK-10B (BLACK). SPEAKER, 8" DUAL-CONE 4 WATT TRANSFORMER, 10 oz CERAMIC MAGNET, 25 AND 70.7 VOLTS, PROVIDE BACK BOX AND MOUNTING HARDWARE AS NECESSARY FOR INSTALLATION IN LAY-IN CEILING. REFER TO SPECIFICATION SECTION 27 51 13 FOR CONDUIT REQUIREMENTS AND ADDITIONAL INFORMATION.	BOGEN S10T725PG8WVR
SC-IO-F	PROVIDE 4" SQUARE BACK BOX WITH SINGLE GANG PLASTER RING AND 1" EMT CONDUIT TO AV CLOSET. INFORMATION OUTLET, FLOOR BOX MOUNT, 2-PORT COVERPLATE AS INDICATED ON DRAWINGS, SEE INFORMATION OUTLET SCHEDULE ON T5.0 FOR PIN CONFIGURATION. "F" INDICATES INFORMATION OUTLET FACEPLATE CONFIGURATION AS INDICATED ON THE PLANS. REFER T5.0 FOR MORE INFORMATION.	ATLAS SOUND VALCOM FACEPLATE: HUBBELL IFP120W (2-PORT) JACK: HUBBELL HXJ6 SERIES
SC-IO-W	INFORMATION OUTLET, WALL MOUNT, 2-PORT COVERPLATE AS INDICATED ON DRAWINGS, SEE INFORMATION OUTLET SCHEDULE ON T5.0 FOR PIN CONFIGURATION. "F" INDICATES INFORMATION OUTLET FACEPLATE CONFIGURATION AS INDICATED ON THE PLANS. REFER T5.0 FOR MORE INFORMATION.	NO SUBSTITUTIONS FACEPLATE: HUBBELL IFP120W (2-PORT) JACK: HUBBELL HXJ6 SERIES
SC-LR-1	LADDER RACK, 12" WIDE RECTANGULAR STEEL TUBING, RUST RESISTANT ENAMEL FINISH, REMOVE SHARP BURRS FROM LADDER RACK AND REPAINT ALL AREAS THAT HAVE BEEN FIELD MODIFIED, CUT OR EXPOSED. U.L. LISTED.	CPI 10250-712 HOMACO HOFFMAN
SC-MPP-1	MODULAR PATCH PANEL, RACK MOUNT, 24 MODULAR RJ-45 TERMINATIONS, MOUNTS DIRECTLY TO EIA/TIA STANDARD 19" RELAY RACK, PORT IDENTIFICATION NUMBERS, COLOR CODING AND LABEL HOLDER KITS, U.L. LISTED. REQUIRES (1) 1.75" MOUNTING SPACES.	HUBBELL P6E24U OR PRE-APPROVED EQUAL ROUGH-IN ONLY
SC-RI-C	INFORMATION OUTLET ROUGH-IN, CEILING MOUNT.	ROUGH-IN ONLY
SC-RI-W	INFORMATION OUTLET ROUGH-IN, WALL MOUNT.	ROUGH-IN ONLY
SC-WAP-C	INSTALL INFORMATION OUTLET IN A 4" SQUARE BACKBOX WITH A SINGLE GANG PLASTER RING. INSTALL A 1" EMT CONDUIT TUBBED TO ACCESSIBLE CEILING. PROVIDE REMOVABLE BLANK INSERTS FOR UNUSED PORTS (HUBBELL SFB10A OR APPROVED EQUAL). INSTALL A 3/4" EMT CONDUIT 6" BEYOND BOX AND TERMINATE WITH A NYLON BUSHING.	FACEPLATE: HUBBELL ISB2BK (2-PORT) JACK: HUBBELL HXJ6 SERIES NO SUBSTITUTIONS

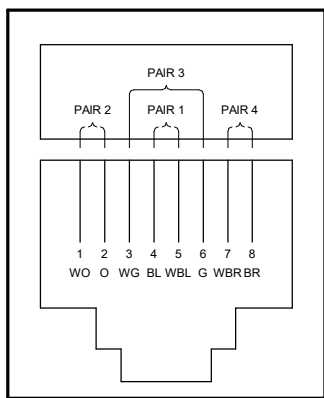
INFORMATION OUTLET SCHEDULE

SINGLE GANG WALLPLATES

2-Port Faceplate



NUMBER INDICATES
FACEPLATE POSITION (TYP.)
REFER TO SPECIFICATIONS FOR
IDENTIFICATION REQUIREMENTS (TYP.)



ANSI/TIA/EIA T568B
PIN/PAIR ASSIGNMENT

NOTES:

1. PROVIDE REMOVABLE BLANK INSERT(S) FOR ALL UNUSED PORTS.
2. REFER TO SPECIFICATIONS SECTION 27 05 53 FOR ADDITIONAL INFORMATION ON LABELING REQUIREMENTS.

SCHEDULE NOTES:

1. LOCATION OF FUTURE OR OWNER PROVIDED WIRELESS ACCESS POINT. PROVIDE A 20' SLACK COIL AT THE NEAREST CABLE SUPPORT FOR POSSIBLE RELOCATION AFTER WIRELESS SURVEY.

CONFIGURATION	FACEPLATE PORTS	FACEPLATE PORT IDENTIFICATION						NOTES
		POSITION 1 JACK TYPE	POSITION 2 JACK TYPE	POSITION 3 JACK TYPE	POSITION 4 JACK TYPE	POSITION 5 JACK TYPE	POSITION 6 JACK TYPE	
C2	2	DATA	DATA					
C2-WAP	2	DATA	DATA					1.
RI	1	DATA						

TECHNOLOGY EQUIPMENT SCHEDULE

THE EQUIPMENT LIST ABBREVIATIONS AND THE TECHNOLOGY EQUIPMENT SCHEDULE ARE FOR THE CONVENIENCE OF THE CONTRACTOR. EACH CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFICATION OF QUANTITIES AND SHALL FURNISH ALL MATERIAL REQUIRED, WHETHER SPECIFIED OR NOT, TO PRODUCE A SATISFACTORY WORKING SYSTEM.

CATALOG NUMBERS ARE NOT TO BE CONSIDERED COMPLETE BUT ARE GIVEN ONLY TO AID THE CONTRACTOR IN THE SEARCH FOR MATERIAL. NO MATERIAL SHALL BE ORDERED BY MANUFACTURER NUMBER ONLY. EACH CONTRACTOR SHALL FIRST READ THE COMPLETE DESCRIPTION OF THE MATERIAL ON THESE DRAWINGS AND SPECIFICATIONS. THE FIRST MANUFACTURER LISTED IS THE BASIS OF DESIGN. "STANDARD COLOR" INDICATES FACTORY FINISH AVAILABLE AT NO ADDITIONAL CHARGE.

EQUIPMENT LIST ABBREVIATION	EQUIPMENT LIST DESCRIPTION	MANUFACTURER AND MODEL
AC-R1-W	CREDENTIAL READER, WALL MOUNT, ROUGH-IN ONLY, OWNER FURNISHED OWNER INSTALLED. PROVIDE 4" SQUARE BACKBOX WITH SINGLE-GANG REDUCER RING WITH (1) 3/4" CONDUIT TO THE NEAREST ACCESSIBLE CEILING IN SUPPORT OF CABLEING TO CREDENTIAL READER. REFER TO DETAIL ON 4T3.0 FOR CONDUIT INFORMATION.	ROUGH-IN ONLY
AC-R2-W	CREDENTIAL READER, MULLION MOUNT, ROUGH-IN ONLY, OWNER FURNISHED OWNER INSTALLED. PROVIDE 4" SQUARE BACKBOX WITH SINGLE-GANG REDUCER RING WITH (1) 3/4" CONDUIT TO THE NEAREST ACCESSIBLE CEILING IN SUPPORT OF CABLEING TO CREDENTIAL READER. REFER TO DETAIL ON 4T3.0 FOR CONDUIT INFORMATION.	ROUGH-IN ONLY
AV-ADA-1	ASSISTED LISTENING SYSTEM W/LFI AUDIO SERVER, CAPABLE OF BROADCASTING 2 CHANNELS OF ANALOG AUDIO TO AUDIENCES OF UP TO 500 USERS. DIMENSIONS -H X W X D 1.77IN X 6.69IN X 4.6IN, 1RU 19" RACK (REQUIRES LW-327 RACK MOUNT KIT), POWDER COATED STAINLESS STEEL ENCLOSURE, AUDIO OUTPUT RJ-45 ETHERNET PORT, 2 BALANCED ANALOG AUDIO INPUTS.	LISTEN TECHNOLOGIES LW-110-2 OR PRE-APPROVED EQUAL
AV-AMP-1	ANALOG AUDIO AMPLIFIER, 300 WATTS TOTAL OUTPUT, 4 CHANNELS, SUPPORTING 100 V, 70 V, 8 OHM OR 4 OHM PER CHANNEL, 4 DBU INPUT SENSITIVITY, 75W PER CHANNEL.	BIAMP VOLTERA A 300.4 OR PRE-APPROVED EQUAL
AV-ANI-C	CEILING MOUNTED WIDEBAND ANTENNA, WIRELESS MICROPHONE ANTENNA, ACTIVE DIRECTIONAL UHF ANTENNA WITH INTEGRATED AMPLIFIER, FOUR STAGE ADJUSTABLE GAIN, 100 DEGREE RECEPTION PATTERN.	SHURE UA864
AV-AN2-C	ASSISTED LISTENING BLUETOOTHIR BEACON. E.C. TO PROVIDE 1 GANG AV WALL BOX FOR MOUNTING, UNO, WITH (1) 1" CONDUIT TO AV RACK LOCATION TO SUPPLY POWER TO DEVICE, CONFIRM DISTANCE AND CABLEING REQUIREMENTS.	LISTEN TECHNOLOGIES LA-490-BK-W9
AV-AV1-F	AV FLOOR PLATE: NETWORK AUDIO ENCODER, DANTE WITH (4) XLR FEMALE INPUTS, POE POWERED, +48 V PHANTOM POWER, CUSTOM WALL WALL PLATE WITH (2) NEUTRIK ETHERCON CONNECTORS TO CONNECT DEVICES TO AV-ESC-1. PROVIDE LABEL ENGRAVING. E.C. PROVIDED FLOOR BOX OR POKE THROUGH WITH (1) 3/4" TO AV-ESC-1. REFER TO ELECTRICAL DRAWINGS AND SPECIFICATIONS FOR MORE INFORMATION. COORDINATE INSTALLATION WITH E.C.	QSC UNDX4I LIBERTY AV NEUTRIK WHIRLWIND PROCO
AV-CAM-1	PTZ CAMERA, PAN/TILT/ZOOM CAMERA, 12X OPTICAL ZOOM WITH 80 DEGREES WIDE FIELD OF VIEW, 2 MEGAPIXEL 1/2.8-TYPE IMAGING SENSOR, NATIVE HD RESOLUTION OF 1080P60, HDMI, 3G-SDI, AND STREAMING OUTPUTS, AND NETWORK CONTROL. CONTRACTOR TO PROVIDE ADJUSTABLE MOUNTS AND MOUNTING HARDWARE. E.C. PROVIDED STANDARD 2-GANG RECESS BOX WITH 1" CONDUIT TO AV RACK LOCATION, UNO.	QSC NC-12X80
AV-DS-1	DIGITAL SIGNAGE: HDMI OUTPUT	DIGITAL SIGNAGE OWNER FURNISHED CONTRACTOR CONTRACTOR INSTALLED
AV-DSP-1	EXISTING AUDIO DSP, 24 CHANNELS OF ANALOG I/O (8 INPUT X 8 OUTPUT X 8 FLEX), 128 X 128 NETWORK AUDIO CHANNELS, 16 X 16 USB AUDIO CHANNELS, 16 CHANNELS OF ROUTABLE AEC, VOIP, DANTE DIGITAL AUDIO AND CONTROL OVER LAN. REFER TO SPECIFICATION 27 41 00 FOR CONFIGURATION AND PERFORMANCE REQUIREMENTS.	QSC CORE 110F
AV-ER-1	AV FREESTANDING EQUIPMENT RACK, 19" DEEP RACK SPACING, (36) RPH X 23" W X 26.9"D, 4-POST RACK WITH VENTED LOCKABLE FRONT PANEL, SIDES, REAR VENTED DOORS, AND FANS. PROVIDE ACCESSORIES TO MANAGE ALL CABLEING. PROVIDE 4RU RACK DRAWER FOR STORAGE	MIDDLE ATLANTIC BOR-3827-SA LOWELL CPI
AV-ESC-1	PRODUCTION SYSTEM ETHERNET NETWORK SWITCH - COMMERCIAL GRADE DATA SWITCH, LATEST VERSION AVAILABLE. UNITS SHALL BE MANAGED LAYER 2, GIGABIT ETHERNET SWITCHES WITH POE, FOURTY (40) 10/100/100BASE-T RJ-45 PORTS, 40 WITH POE+. 1 RU RACKMOUNT CHASSIS. PROVIDE FIBER ADAPTERS AS OUTLINED ON RISER DIAGRAMS.	NETGEAR M4250-40G8F-POE+ CISCO EXTREME
AV-LED-1	LED VIDEO WALL: 217" DIAGONAL 4K LED VIDEO WALLS WITH A RESOLUTION OF 3840 X 2160 PIXELS, 1.25 PIXEL PITCH, 16:9 ASPECT RATIO, 600 NITS, 8 BIT COLOR, 10000:1 CONTRAST, 3840 HZ REFRESH RATE, SCAN RATE 1/60, 160 DEG VIEWING ANGLE, CABINET SIZE 19.8" W X 8" X 10" H. PROVIDE WITH PROCESSOR(S) AV-WMP-1 AND MANUFACTURER INSTALLATION AND CALIBRATION. VOLUNTARY ALTERNATE MANUFACTURERS REQUIRE PRE-APPROVAL AND AN MUST INCLUDE PRICING COMPARISON TO THE BASIS OF DESIGN. CONTRACTOR TO INCLUDE MOUNTING DRAPER FOUNDATION SYSTEM, FIVE YEAR PARTS AND LABOR WARRANTY.	UNILUMIN UMINI W 1.2 DRAPER FOUNDATION MOUNTING SYSTEM NO SUBSTITUTIONS
AV-MC-RX4	FOUR CHANNEL WIRELESS UHF MICROPHONE SYSTEM: WIRELESS MICROPHONE SYSTEM WITH THREE QUANTITY HANDHELD CARDIOD CONDENSER TRANSMITTER AND ONE QUANTITY BODYPACK TRANSMITTERS. PROVIDE WITH ONE QUANTITY LOW PROFILE OMNI-DIRECTIONAL HEADSET CONDENSER MICROPHONE AND MAX DURABILITY 21mm CABLE. VERIFY FREQUENCY REQUIREMENTS FOR GEOGRAPHIC AREA AND COORDINATE ANTENNAS REQUIREMENTS. REFER TO SPECIFICATIONS DIV 27 41 00 FOR ADDITIONAL REQUIREMENTS AND ACCESSORIES.	SHURE ULXD4Q ULXD1 ULXD2/B87A COUNTRYMAN E8X-O-W5-L-2-SL NO EQUAL
AV-PC-E	OWNER PROVIDED PC	OWNER PROVIDED
AV-PS-1	RACK POWER STRIP: MULTI-STAGE SURGE PROTECTION, (8) REAR OUTLETS, CONTROLLED REAR OUTLETS, (1) FRONT OUTLET, FRONT POWER SWITCH.	MIDDLE ATLANTIC PDX-920R
AV-SB1-C	12" CEILING SUBWOOFER, 400 WATTS CONTINUOUS, 1,600 WATTS PEAK POWER, 12" DRIVER WITH LONG THROW COPPER VOICE COIL. PROVIDE WITH CMS 1201SW BACKCAN AND ADDITIONAL REQUIRED ACCESSORIES. PROVIDE 4" SQUARE BACK BOX WITH SINGLE GANG PLASTER RING AND 1" EMT CONDUIT TO AV CLOSET.	SURGE X TANNOY CMS 1201SW (SPEAKER) CMS 1201 BACKCAN NO SUBSTITUTIONS
AV-SP1-W	PASSIVE COLUMN ARRAY LOUDSPEAKER, 200 WATTS CONTINUOUS, 800 WATTS PEAK POWER, 7 VERTICALLY ARRAYED 3.5" LOW-FREQUENCY DRIVERS, 8 VERTICALLY ARRAYED 1" HIGH-FREQUENCY METAL DOME TWEETERS, EN 54-24 CERTIFIED FOR FIRE DETECTION AND FIRE ALARM SYSTEMS, LOW INSERTION LOSS 150 W, 196S FOR OUTDOOR USE, TRANSFORMER TAP 150 W (33 Ω) / 75 W (66 Ω) / 37.5 W (133 Ω) / 19 W (265 Ω) / 9.5 W (520 Ω) / 5 W (1000 Ω) OFF & LOW IMPEDANCE OPERATION, DIMENSIONS H X W X D 32.1" X 4.8 X 5.8", ALUMINUM EXTRUSION CONSTRUCTION, POWDER COATED PERFORATED STEEL GRILLE. PROVIDE 4" SQUARE BACK BOX WITH SINGLE GANG PLASTER RING AND 1" EMT CONDUIT TO AV CLOSET.	TANNOY VLS 15 (EN54) NO SUBSTITUTIONS
AV-SP2-C	PERFORMANCE SPEAKER, 8" COAXIAL PENDANT LOUDSPEAKER, 240-WATT WEATHER-RESISTANT ENCLOSURE, FREQUENCY RESPONSE 60 HZ - 30 KHZ, SYSTEM SENSITIVITY (1 W @ 1 M) 88 DB, DISPERSION 90 DEGREES CONICAL, ABS / STEEL ENCLOSURE, STEEL PLATED AND POWDER COAT PAINTED GRILLE, TRANSFORMER TAPS 60 W / 30 W / 15 W / 7.5 W & LOW IMPEDANCE OPERATION, UL LISTED.	TANNOY OCY 8 NO SUBSTITUTIONS
AV-SP3-G	PROVIDE 4" SQUARE BACK BOX WITH SINGLE GANG PLASTER RING AND 1" EMT CONDUIT TO AV CLOSET. OUTDOOR SPEAKER, WEATHER RESISTANT MUSHROOM STYLE LANDSCAPE LOUDSPEAKER, 8" LF DRIVER AND 1.0" HF DRIVER POLYETHERIMIDE DOME, 360 DEGREE COVERAGE NOMINAL, 240 WATTS CONTINUOUS PROGRAM POWER AND 60 HZ TO 15KHZ FREQUENCY RESPONSE, 8 OHMS PLUS 70V/100V TAPS AT 60W, 30W, 15W (AND 7.5W @ 70V), ENCLOSURE 20.1" X 14" X 14, IP-56 RATING. PROVIDE 4" SQUARE BACK BOX WITH SINGLE GANG PLASTER RING AND 1" CONDUIT FROM LOCAL AV RACK FOR SPEAKER LINE TO EACH DISTRIBUTED SPEAKER ZONE WITH CIRCULATING CABLE TO EACH SPEAKER PER PLANS. BASE BID: INCLUDE AV SPEAKERS ALTERNATE #3: REMOVE AV SPEAKERS WIRING AND CONDUIT	JBL CONTROL 88M
AV-TP1-R	TOUCH PANEL-WALL MOUNT: AUDIOVISUAL SYSTEM TOUCH PANEL CONTROL, 10" SCREEN WITH 1920X1080 RESOLUTION AND POE+. PROVIDE WITH RACK MOUNT IN AV-ER-1 RACK.	QSC TSC-101-G3
AV-TP1-W	TOUCH PANEL-WALL MOUNT: AUDIOVISUAL SYSTEM TOUCH PANEL CONTROL, 10" SCREEN WITH 1920X1080 RESOLUTION AND POE+. PROVIDE 4" SQUARE BACKBOX 1" EMT CONDUIT TO AV RACK LOCATION.	QSC TSC-101-G3
AV-VRX-1	DIGITAL MEDIA TRANSMITTER/RECEIVER: NETWORK BASED VIDEO ENCODER/DECODER, SIGNAL EXTENDER DEVICE WITH HDMI INPUT, USB C, USB A, HDMI OUTPUT AND POE NETWORK PORT. PROVIDE WITH AV BRIDGING. PROVIDE WITH USB C CHARGING POWER SUPPLY AT THE TABLES. SUPPORTS RESOLUTIONS UP TO 4K 60 4:4:4 PASSES CEC, EDID.	QSC NV-21 CRESTRON EXTRON
AV-VRX-2	DIGITAL MEDIA TRANSMITTER/RECEIVER: NETWORK BASED VIDEO ENCODER/DECODER, SIGNAL EXTENDER DEVICE WITH (3) HDMI INPUTS, (USB B, (4) USB A, (2) HDMI OUTPUTS (3) GPIO, AUDIO IN, AUDIO OUT AND (2) NETWORK PORTS. SUPPORTS RESOLUTIONS UP TO 4K 60 4:4:4 PASSES CEC, EDID.	QSC NV-32-H CRESTRON EXTRON
AV-WMP-1	LED VIDEO WALL PROCESSOR: PROVIDED WITH LED VIDEO WALL AV-LED-1, (2) HDMI INPUT AND RJ-45 VIDEO OUTPUT CARDS, PROCESSOR AND CONFIGURATION TO SUPPORT APPLICATION.	NEOTI NOVASTAR H-SERIES
AV-WP1-W	WALL MOUNTED HDMI TRANSMITTER/RECEIVER: NETWORK BASED VIDEO ENCODER, SIGNAL EXTENDER DEVICE WITH HDMI INPUT AND POE NETWORK PORT. SUPPORTS RESOLUTIONS UP TO 4K 60 4:4:4 PASSES CEC, EDID. E.C. TO PROVIDE DEEP RECESSED 2 GANG AV WALL BOX AT OUTLET HEIGHT, UNO, WITH (1) 1 1/4" CONDUIT FOR AV CABLE TO FINISHED ACCESSIBLE CEILING OR TO THE AV CABLE TRAY IN OPEN CEILINGS.	QSC NV-14-H-WE CRESTRON EXTRON
AV-WP2-W	WALL PLATE RACK MOUNTED: PROVIDE (1) DANTE/AES 67 AUDIO INTERFACE IN 2 GANG FACEPLATE, XLR FEMALE INPUTS, 2 RCA LINE LEVEL INPUTS AND 3.5 MM TRS LINE LEVEL INPUT. E.C. TO PROVIDE DEEP RECESSED 2 GANG AV WALL BOX AT OUTLET HEIGHT, UNO, WITH (1) 1 1/4" CONDUIT FOR AV CABLE TO FINISHED ACCESSIBLE CEILING OR TO THE AV CABLE TRAY IN OPEN CEILINGS.	QSC UND610 OR APPROVED EQUAL
AV-WP3-R	WALL PLATE RACK MOUNTED: PROVIDE (1) DANTE/AES 67 AUDIO INTERFACE IN 2 GANG FACEPLATE, XLR FEMALE INPUTS, 2 RCA LINE LEVEL INPUTS AND 3.5 MM TRS LINE LEVEL INPUT. PROVIDE STANDARD RACK MOUNTING PLATE TO BE LOCATED IN AV-ER-1 RACK LOCATION.	QSC UND610 OR APPROVED EQUAL
AV-WP4-R	HDMI INPUT RACK MOUNTED: ONE (1) HDMI PASS-THROUGH CONNECTOR IN METAL FACEPLATE. PROVIDE HDMI CABLE FROM WALL PLATE TO LOCAL AUX HDMI INPUT. PROVIDE ONE (1) 9" HDMI STATION CABLE. PROVIDE CUSTOM RACK PLATE FOR MOUNTING HDMI FACE PLATE.	LIBERTY AV PROCO C2G

