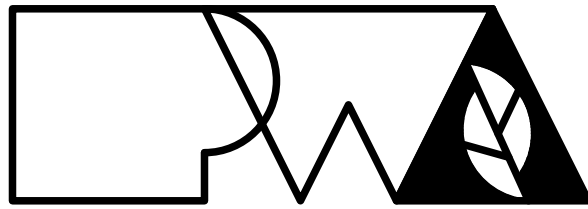


Replace Roof & Renovate Basement and Access MSHP Interoperability Site

Jefferson City, Missouri



Peckham & Wright Architects, Inc., d.b.a.
PWArchitects, Inc.
2120 Forum Blvd., Ste. 101
Columbia, Missouri 65203
PWArchitects.com | 573.449.2683

OWNER: STATE OF MISSOURI
MIKE KEHOE,
GOVERNOR

DEPARTMENT OF
PUBLIC SAFETY

PROJECT
MANAGEMENT: OFFICE OF ADMINISTRATION
DIVISION OF FACILITIES MANAGEMENT,
DESIGN AND CONSTRUCTION

DESIGNER: PWArchitects
2120 Forum Blvd. Suite 101
Columbia, MO 65203

PROJECT NUMBER: R2508-01

SITE NUMBER: 6027
FACILITY NUMBER: 8136027002

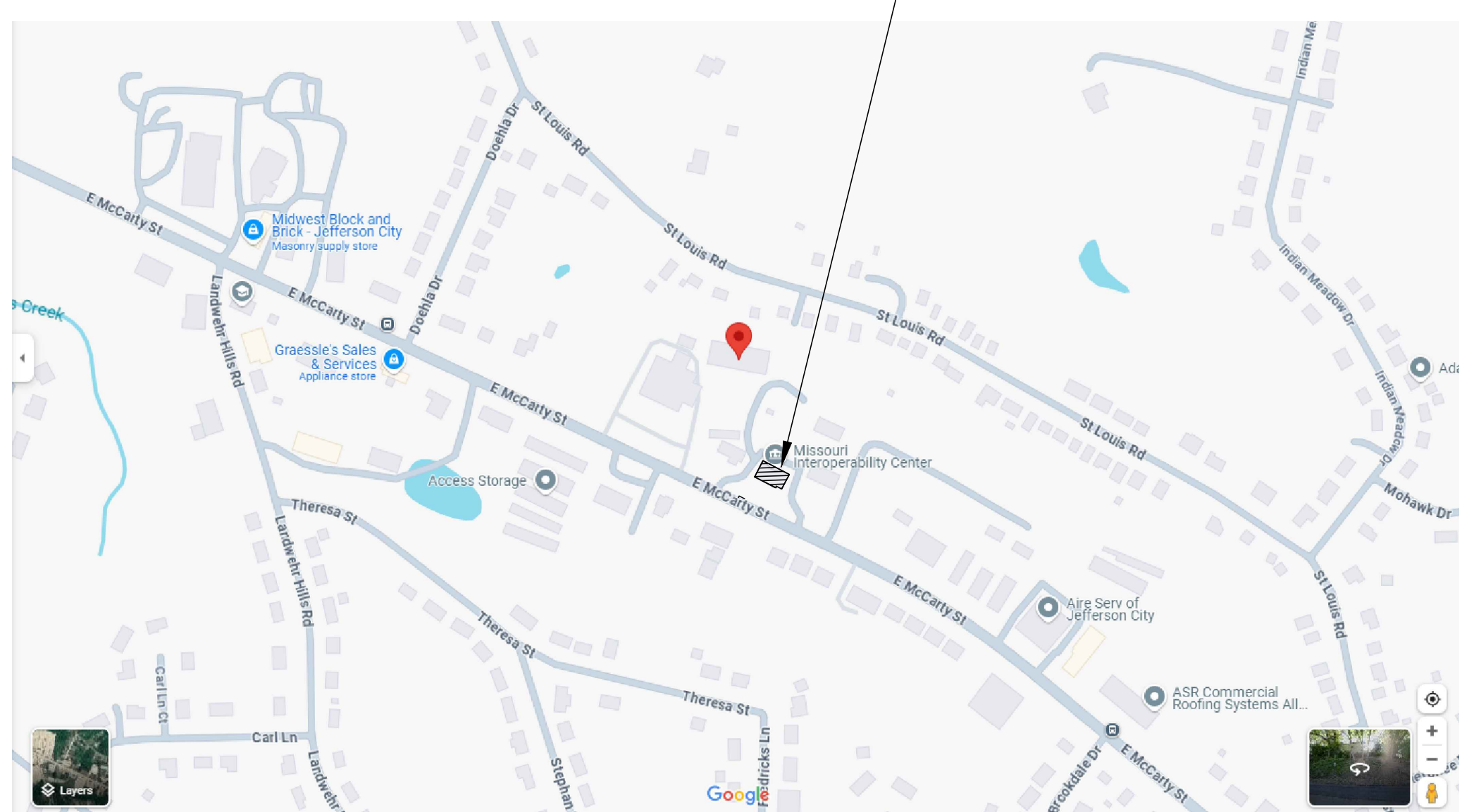
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G-001

12/12/2025
1 OF 27 SHEETS

M
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1 LOCATION MAP
G-002 NOT-TO-SCALE



SHEET INDEX

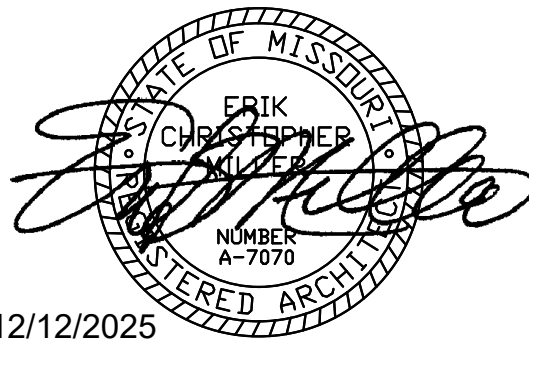
GENERAL	MECH, ELEC, & PLUMBING
G-001 COVER SHEET	M101 HVAC PLAN
G-002 SHEET INDEX, SYMBOL LEGEND & LOCATION MAP	M501 HVAC DETAILS & SCHEDULES
G-003 CODE AND EGRESS PLAN	E101 ELECTRICAL PLAN
	E501 ELECTRICAL DETAILS & SCHEDULES
	P101 PLUMBING PLAN
	P501 PLUMBING DETAILS & SCHEDULES

DEMOLITION
D-101 DEMO PLAN - BASEMENT
D-102 DEMO PLAN - GROUND LEVEL
D-201 DEMO EXTERIOR ELEVATIONS

CIVIL
C-100 DEMOLITION & SITE PLAN NORTH STAIR TOWER
C-101 DEMOLITION & SITE PLAN WEST STAIR TOWER
C500 - SITE DETAILS

STRUCTURAL
S100 COVER/GENERAL STRUCTURAL DATA
S200 FOUNDATION PLAN & DETAILS
S300 FRAMING PLAN & DETAILS
ARCHITECTURAL
A-101 BASEMENT FLOOR PLAN
A-102 GROUND LEVEL FLOOR PLAN
A-103 ROOF PLAN AND ROOFING DETAILS
A-201 EXTERIOR ELEVATIONS
A-301 BUILDING SECTION
A-302 BUILDING SECTION
A-303 SCHEDULES AND DOOR DETAILS
A-304 WINDOW SCHEDULE AND DETAILS
A-501 ROOF DETAILS

STATE OF MISSOURI
MIKE KEHOE,
GOVERNOR



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CONSTRUCTION

REPLACE ROOF &
RENOVATE
BASEMENT/ACCESS

MSHP INTEROPERABILITY
2413 EAST MCCARTY ST.
JEFFERSON CITY, MO

PROJECT # R2508-01
SITE # 6027
ASSET # 8136027002

REVISION: _____
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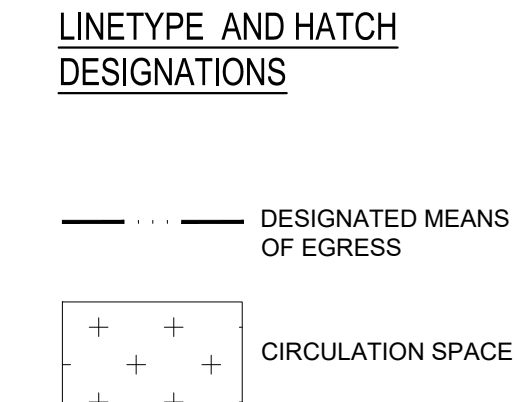
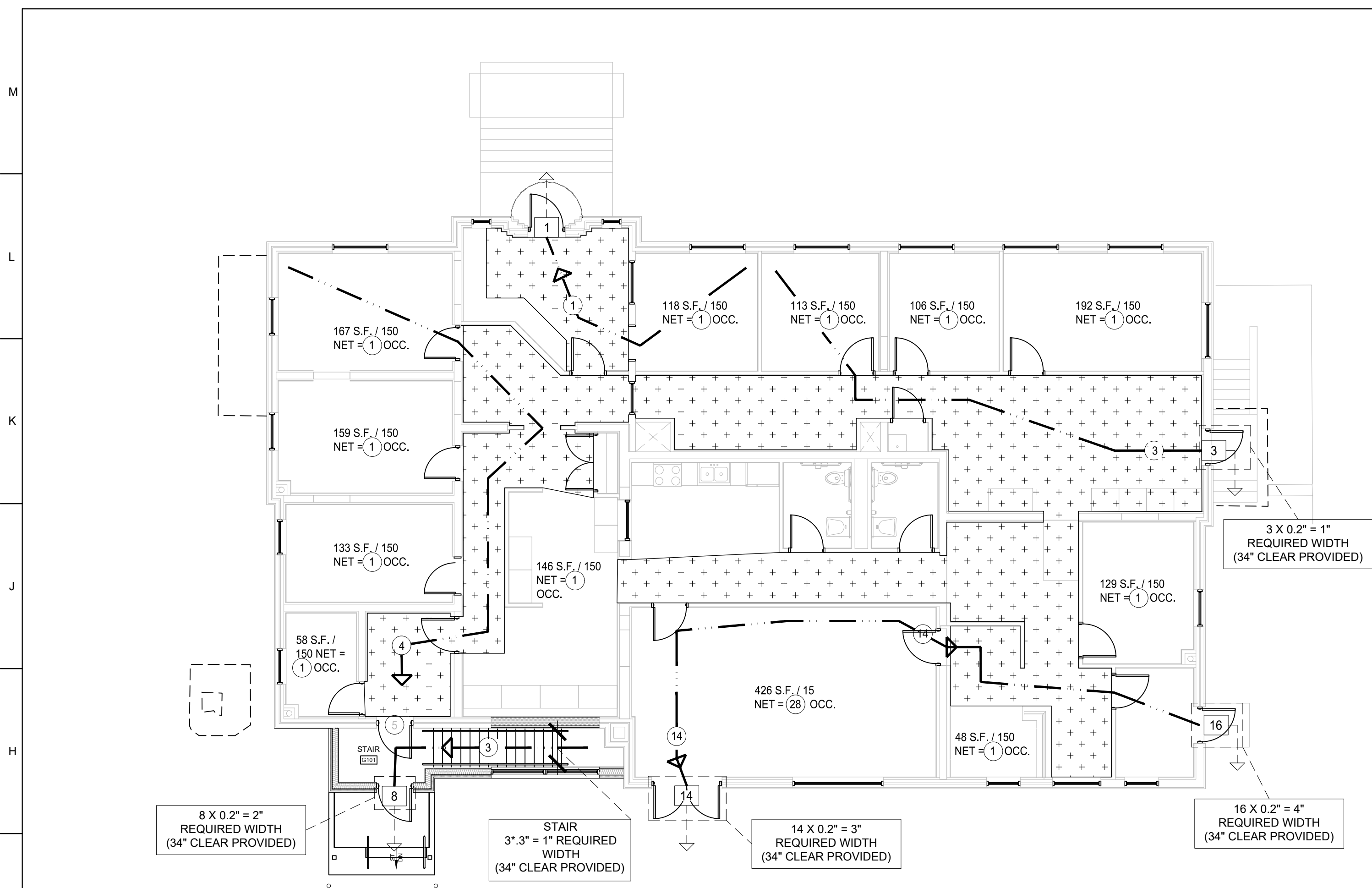
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DRAWN BY: SI
CHECKED BY: SI
DESIGNED BY: SI

SHEET TITLE:
SHEET INDEX,
SYMBOL LEGEND
& LOCATION MAP

SHEET NUMBER:
G-002
12/12/2025
2 OF 27 SHEETS

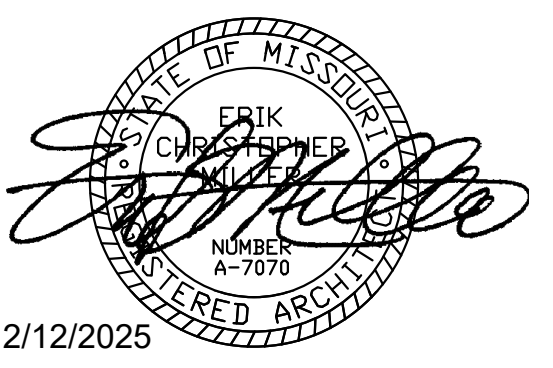
SYMBOLS LEGEND

DRAWING BULLET WITH NORTH ARROW	
	DRAWING TITLE SCALE: X'X" = 1'-0"
GRID REFERENCE	ARCH. SCALE
DRAWING BULLET WITHOUT NORTH ARROW	
	DRAWING TITLE SCALE: X'X" = 1'-0"
GRID REFERENCE	ARCH. SCALE
	PAGE FIRST REFERENCED (IF APPLICABLE)
ELEVATION BULLETS	PLAN / ELEVATION DETAIL BULLET
GRID REFERENCE	GRID REFERENCE
SHEET NUMBER	SHEET NUMBER
ONE ELEVATION	
SCOPE OF WORK BULLET	
DOOR MARK BULLET	SECTION BULLET
	GRID REFERENCE ALWAYS ON TOP
WINDOW MARK BULLET	SHEET NUMBER
REVISION NOTE BULLET	NORTH ARROW
GENERAL NOTE BULLET	COLUMN LINE BULLETS
BENCHMARK BULLET	SPOT ELEV. BULLETS
000.00' ***** FLOOR	TC - TOP OF CURB TG - TOP OF GRADE TW - TOP OF WALL TP - TOP OF PAVING
WALL PARTITION (TYPE) FLAG	



Code Summary		2018 International Building Code	
Code Requirement			
Main Use Group(s)	304	Business B	
Automatic Sprinklers	903.2	No	
Minimum Construction Classification	602	3B	
Floor Area (Tenant Infill)			
- Area (Square Feet) per Floor Permitted - 'B' use	T. 506.2 (NS)	9,000 SF	
- Area (Square Feet) per First Floor Proposed			
- 'B' use (Ground Level - Existing)		4,100 SF	
- 'B' use (Lower Level - Existing)		2,780 SF	
- 'B' use (Addition)		120 SF	
Total Proposed Floor Area:		7,000 SF	
Maximum Height			
- Max. Height (Ft.) Permitted - 'B' use	T. 504.3	55'-0"	
Travel Distance			
- 'B' use	T. 1017.2	200'-0" Maximum	(NonSprinkled)
- 'S-2' use		300'-0" Maximum	(NonSprinkled)
Dead End			
- 'B' and 'S-2' use	1020.4	20'-0" Maximum	(NonSprinkled)
Total No. of Occupants			
- 'B' use		7	
- 'S-2' use (garage / storage)		7	
- 'A-3' use (assembly)		28	
Total Occupants		42	
Occupant Load Factors			
- Business	T. 1004.5	150 sq. ft./person (gross)	
- Storage		300 sq. ft./person (gross)	
- Assembly		15 sq. ft./person (net)	

STATE OF MISSOURI
MIKE KEHOE,
GOVERNOR



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BASEMENT/ACCESS

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JEFFERSON CITY, MO

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SITE # 6027
ASSET # 8136027002

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CAD DWG FILE: _____
DRAWN BY: SI _____
CHECKED BY: SI _____
DESIGNED BY: SI _____

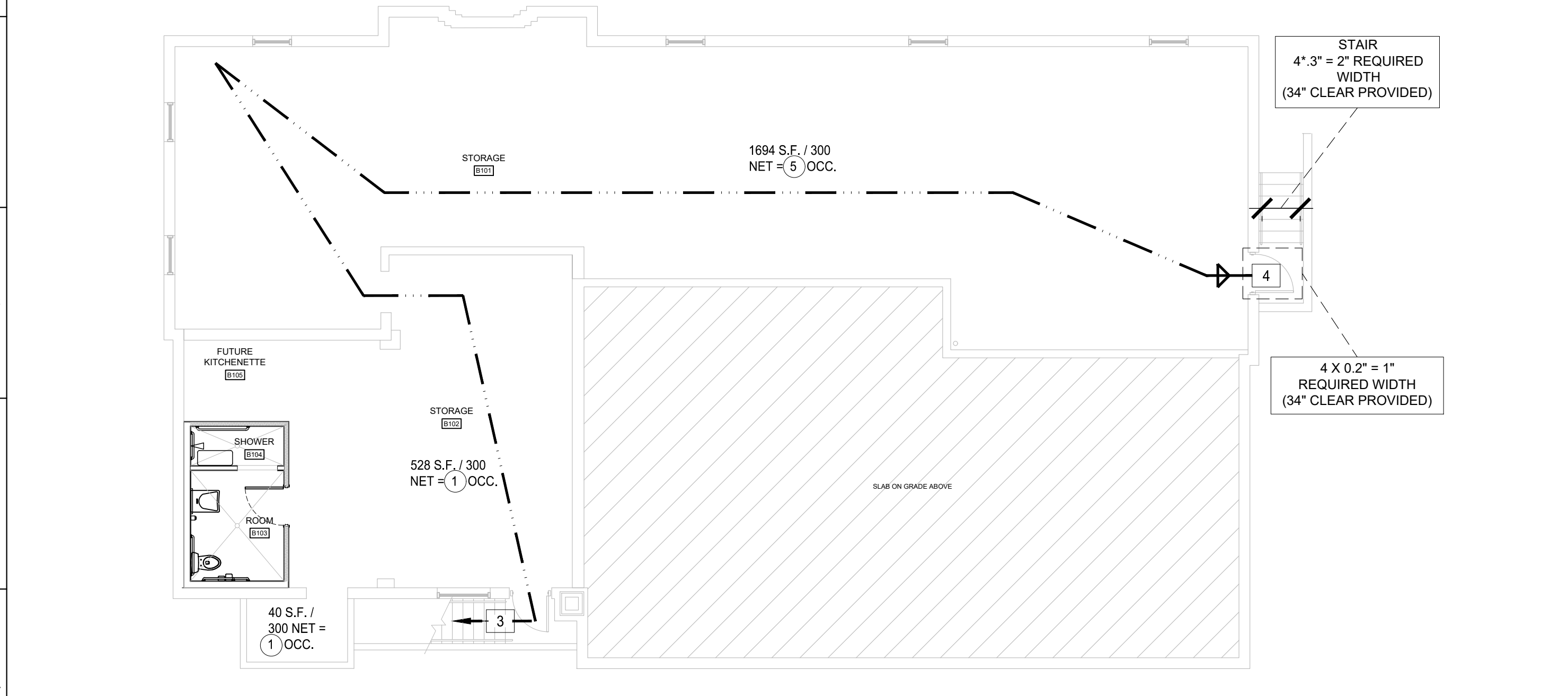
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**CODE AND
EGRESS PLAN**

SHEET NUMBER:

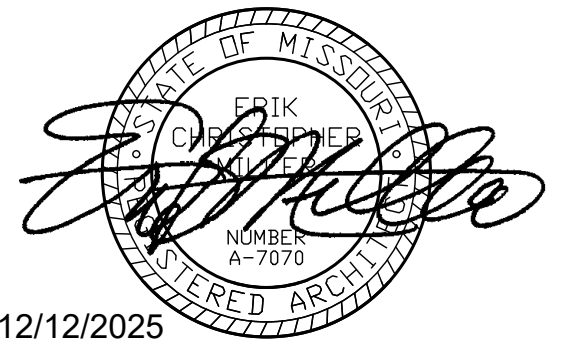
G-003

12/12/2025
3 OF 27 SHEETS

2
G-003 1/8" = 1'-0"
GROUND LEVEL CODE PLAN



1
G-003 1/8" = 1'-0"
BASEMENT LEVEL CODE PLAN



12/12/2025



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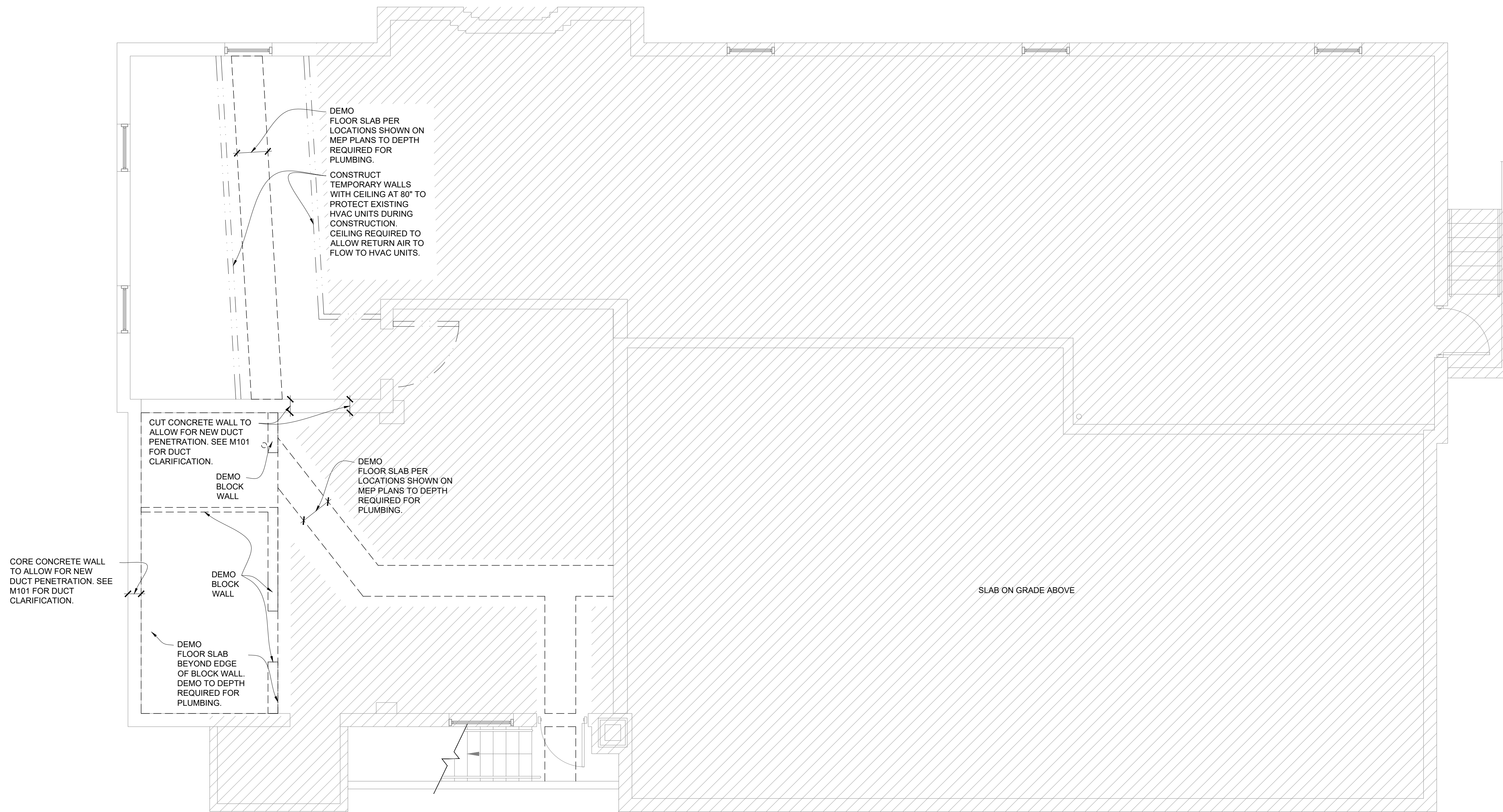
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DRAWN BY: SI
CHECKED BY: SI
DESIGNED BY: SI


SHEET TITLE:
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BASEMENT LEVEL**

SHEET NUMBER:

D-101

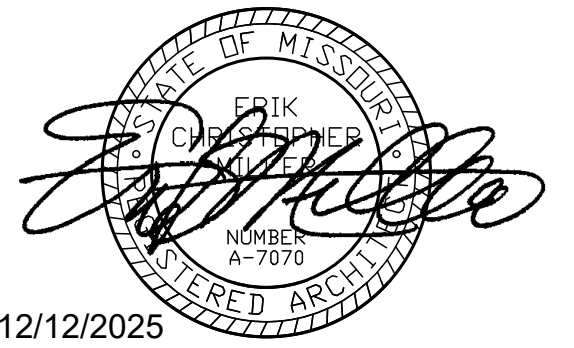
12/12/2025
4 OF 27 SHEETS



 **1** DEMO PLAN - BASEMENT LEVEL
D-101 1/4" = 1'-0"

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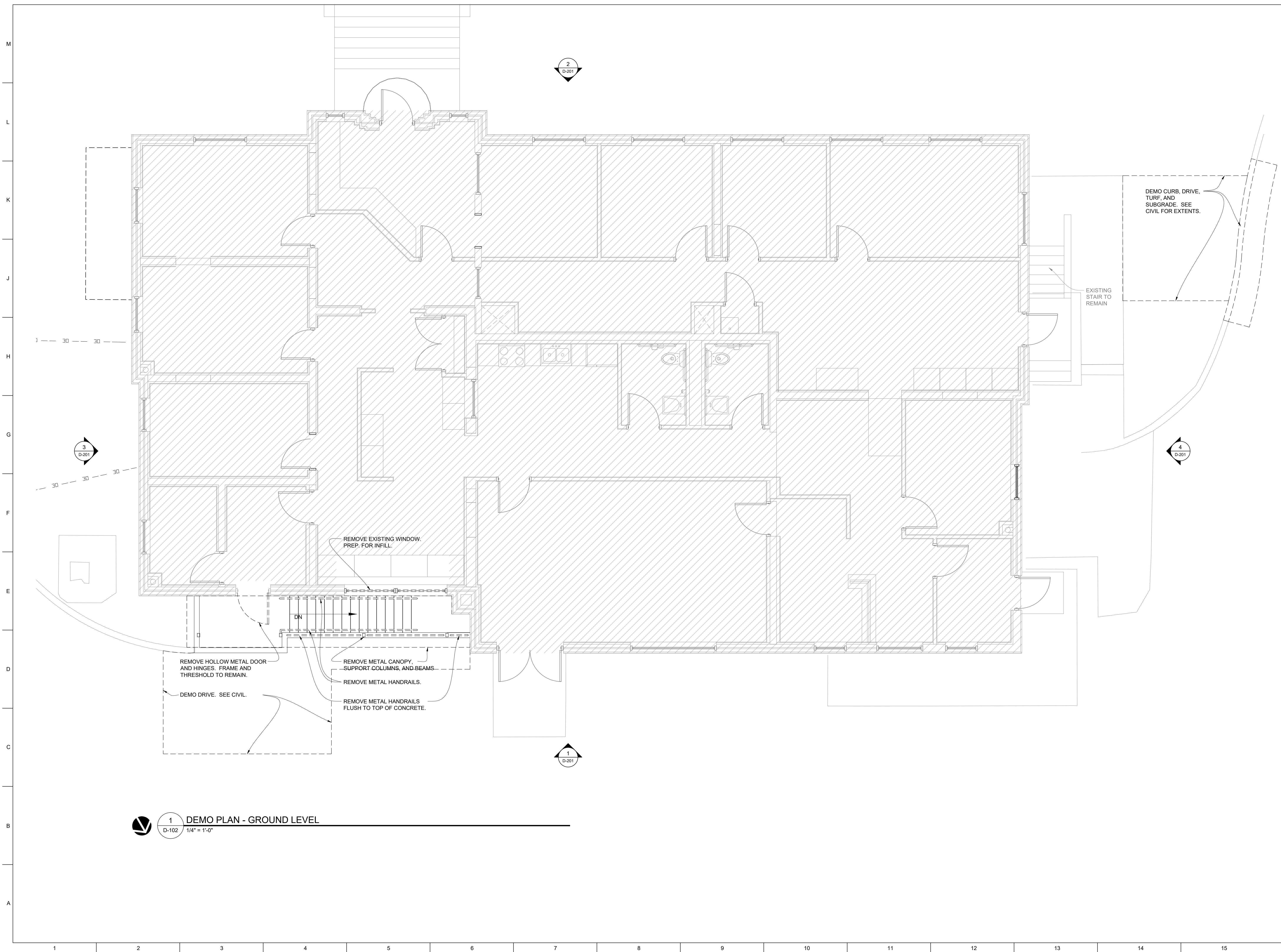
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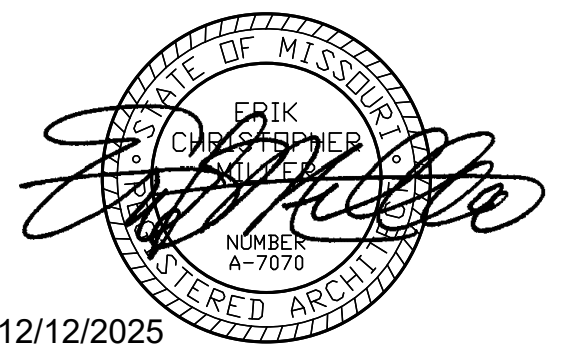
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**DEMO PLAN -
GROUND LEVEL**

SHEET NUMBER:

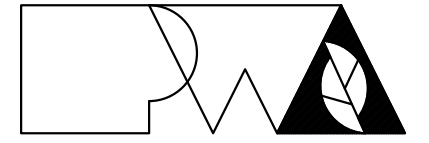
D-102

12/12/2025
5 OF 27 SHEETS

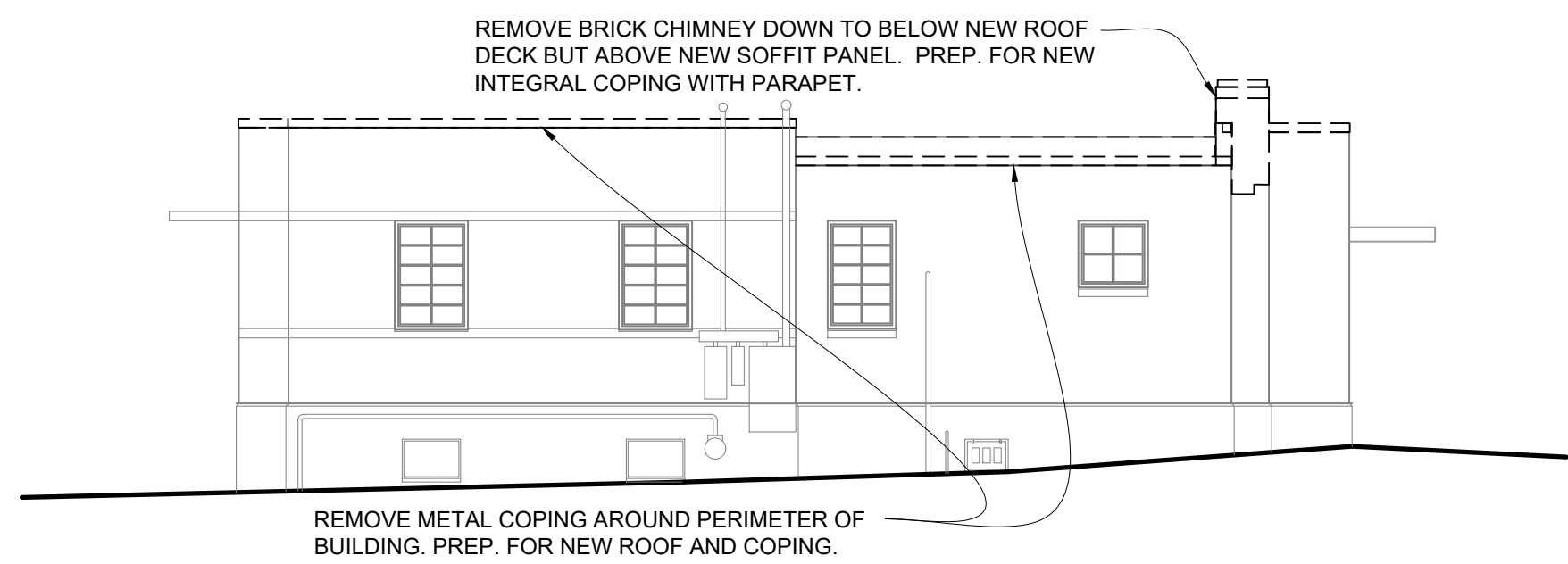




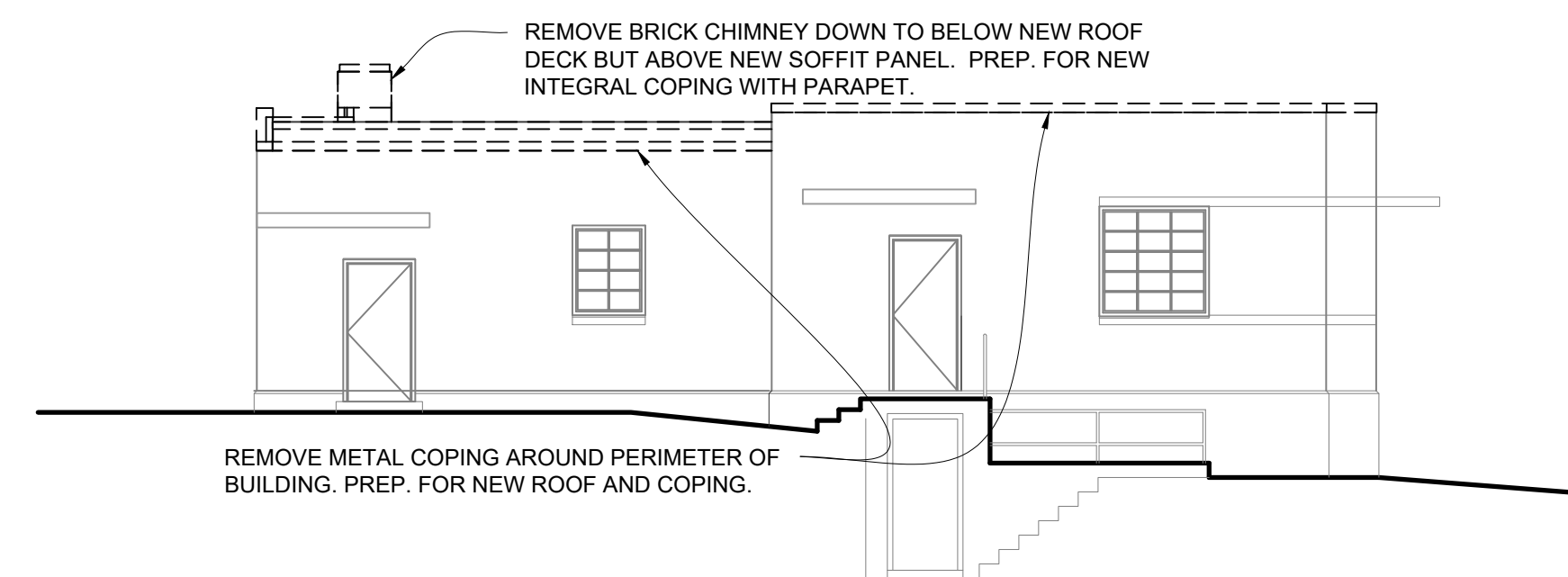
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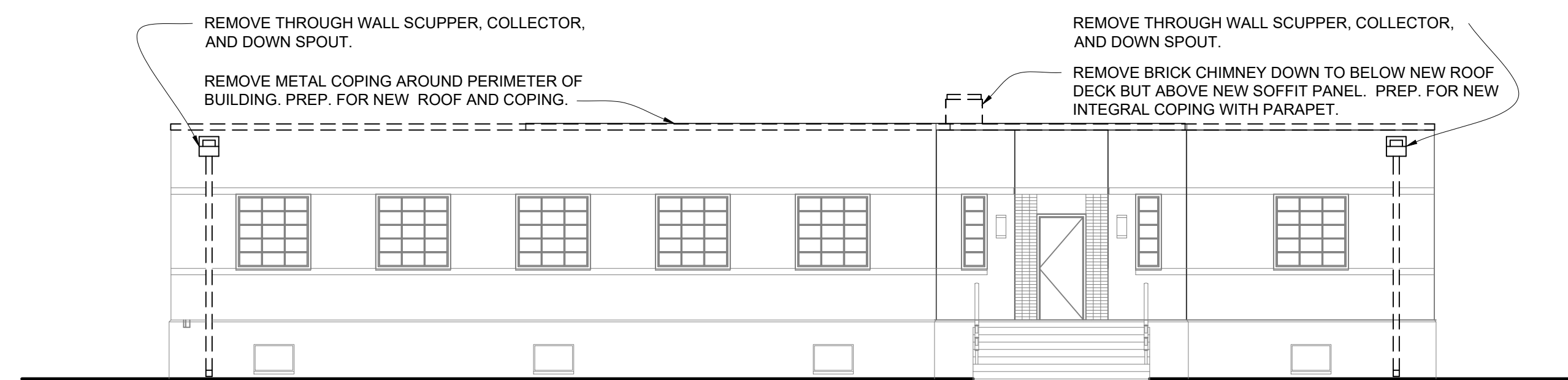
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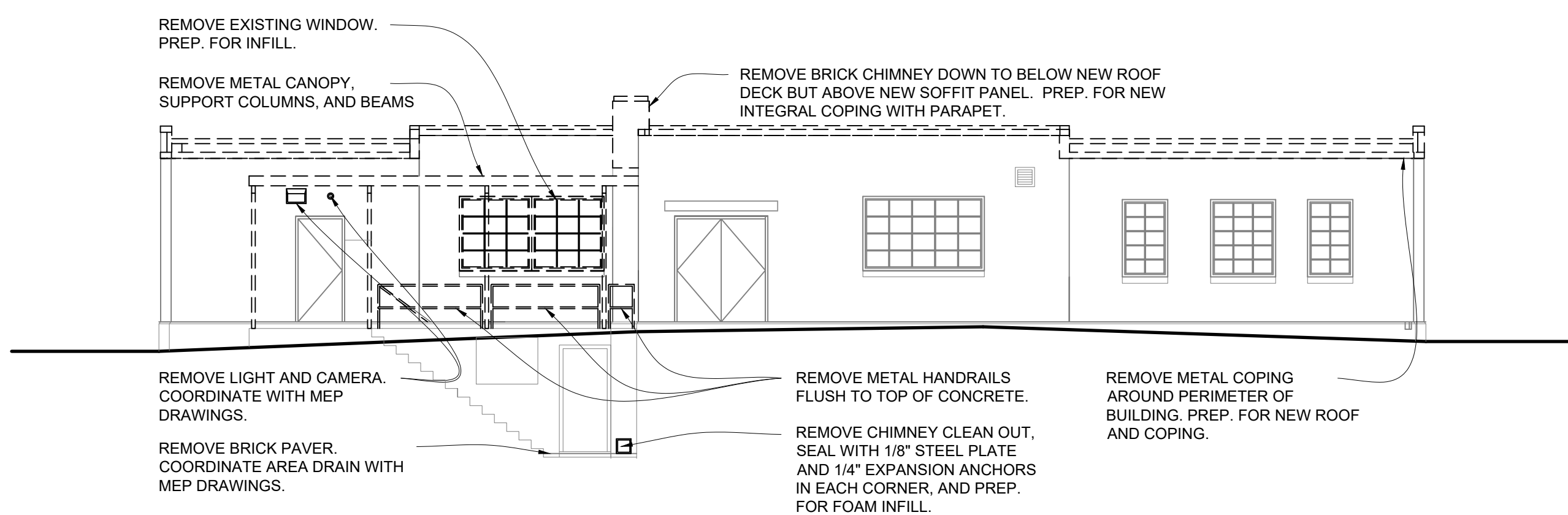
3 EAST ELEVATION - DEMO
D-201 1/4" = 1'-0"



4 WEST ELEVATION - DEMO
D-201 1/4" = 1'-0"



2 SOUTH ELEVATION - DEMO
D-201 1/4" = 1'-0"



1 NORTH ELEVATION - DEMO
D-201 1/4" = 1'-0"

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MSHP INTEROPERABILITY
2413 EAST MCCARTY ST.
JEFFERSON CITY, MO

PROJECT # R2508-01
SITE # 6027
ASSET # 8136027002

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REVISION: _____
DATE: _____
ISSUE DATE: 12/12/2025

CAD DWG FILE: _____
DRAWN BY: SI
CHECKED BY: SI
DESIGNED BY: SI

SHEET TITLE:
**DEMO EXTERIOR
ELEVATIONS**

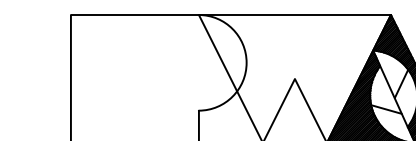
SHEET NUMBER:

D-201

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TIMOTHY D. CROCKETT
MO LICENSE 2004000775



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PWArchitects, Inc.
2120 Forum Blvd., Ste. 101
Columbia, Missouri 65203
PWArchitects.com | 573.449.2883

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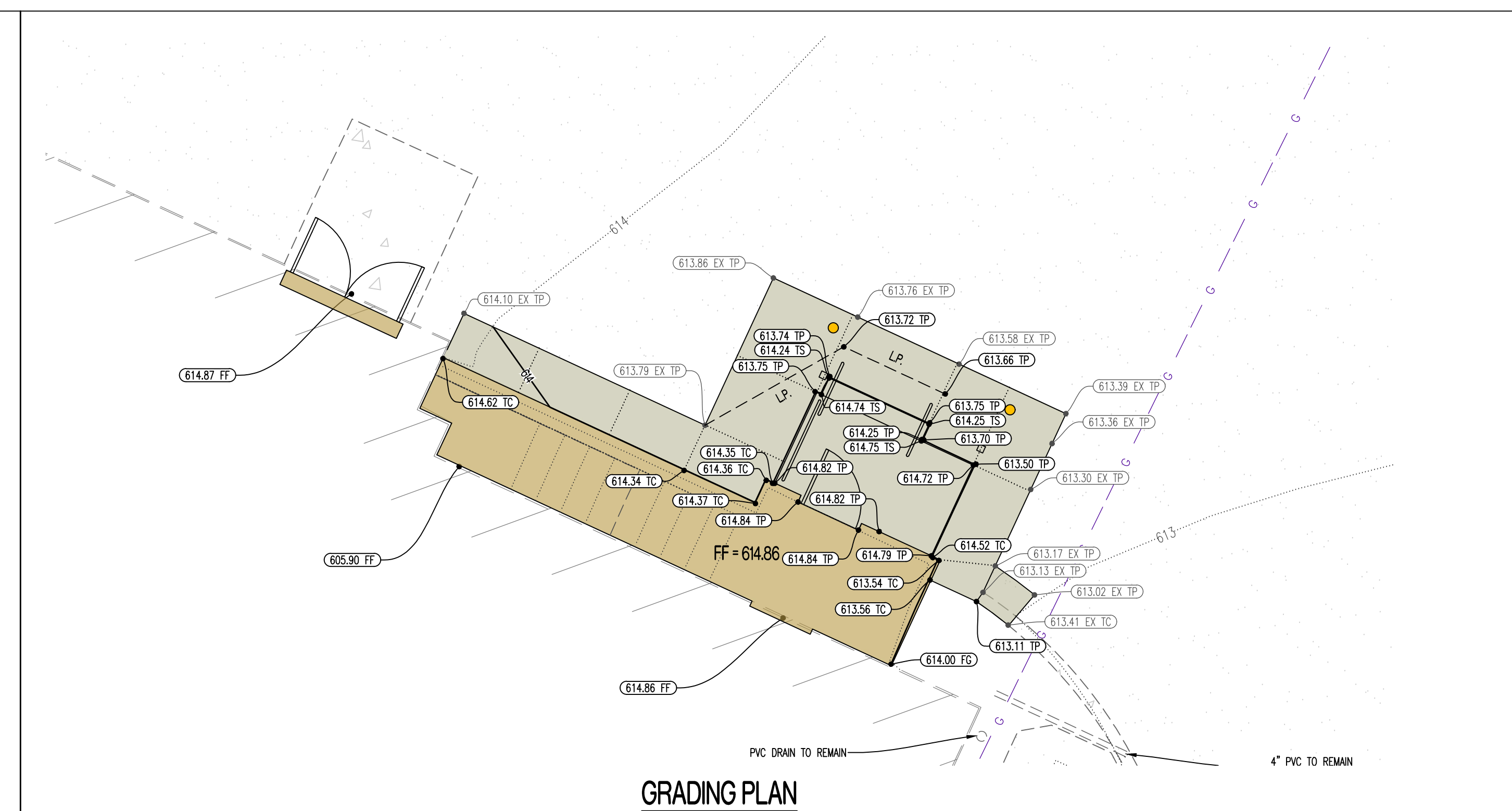
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CHECKED BY: TDC
DESIGNED BY: TDC

SHEET TITLE:
**DEMOLITION &
SITE PLAN
NORTH STAIR
TOWER**

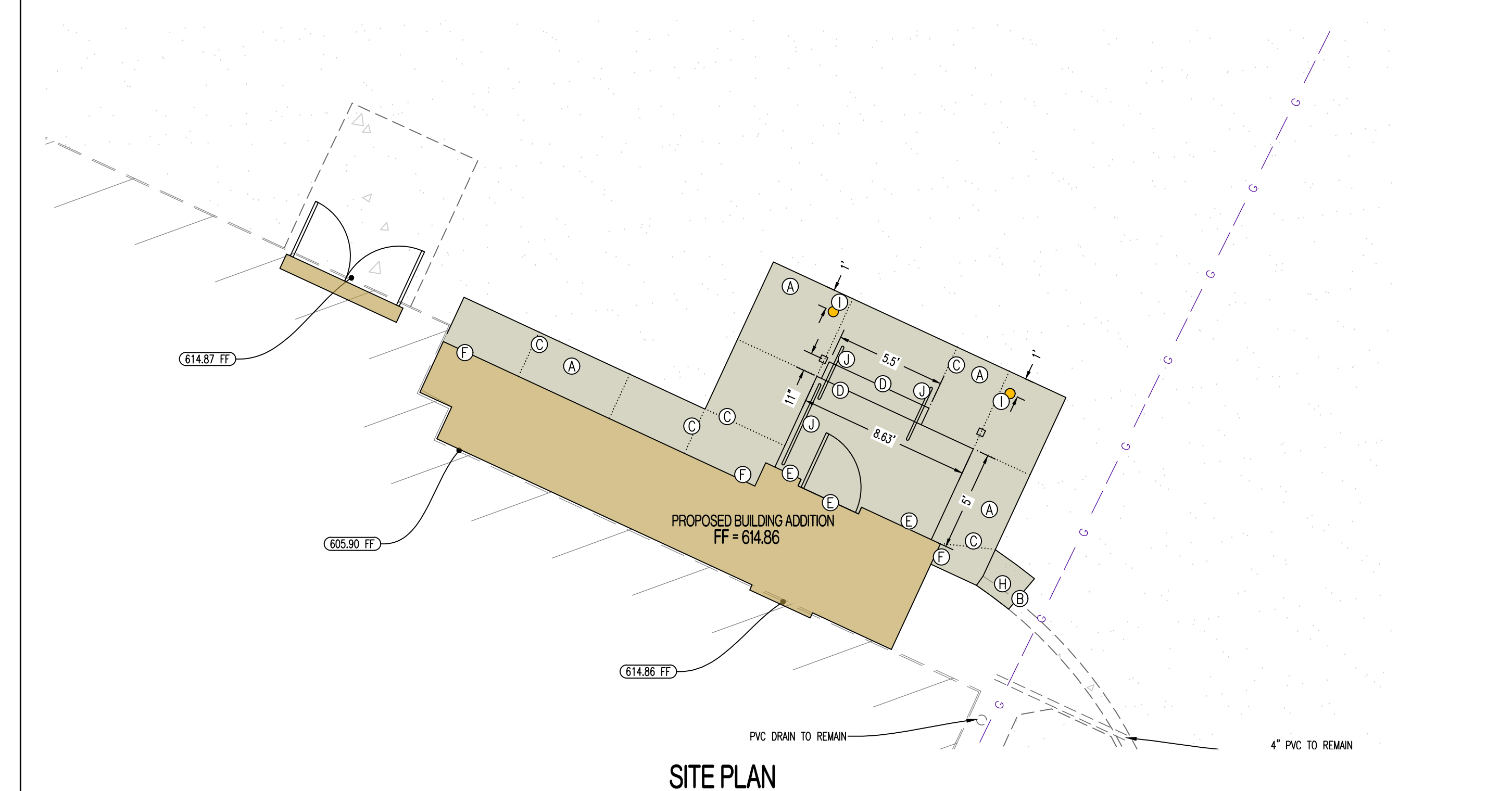
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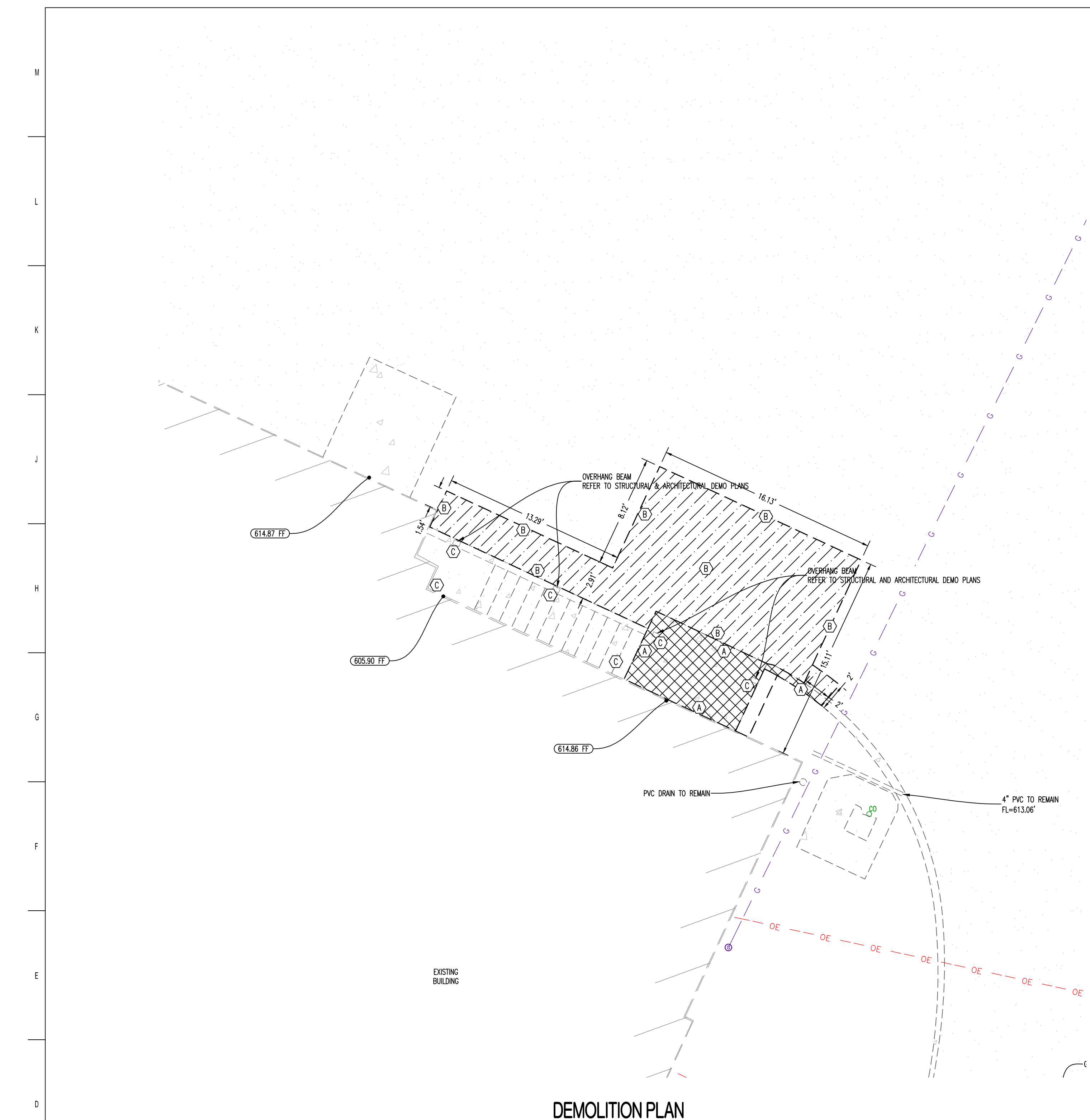
12/12/2025
7 OF 27 SHEETS



GRADING PLAN



SITE PLAN



DEMOLITION PLAN

LEGEND OF LABELS:

(A)	SAWCUT AND REMOVE EXISTING CONCRETE PAVEMENT AS SHOWN. REMOVE FULL PAVEMENT CROSS SECTION. CONTRACTOR SHALL MAKE A CLEAN, FULL DEPTH CUT TO ENSURE A CLEAN TIE INTO EXISTING PAVEMENT.
(B)	SAWCUT AND REMOVE EXISTING ASPHALT PAVEMENT AS SHOWN. REMOVE FULL PAVEMENT CROSS-SECTION. CONTRACTOR SHALL MAKE A CLEAN, FULL DEPTH CUT TO ENSURE A CLEAN TIE INTO EXISTING PAVEMENT.
(C)	REFER TO STRUCTURAL AND ARCHITECTURAL PLANS FOR ADDITIONAL DEMOLITION PLANS.
(D)	EXISTING TURF AND SOIL AREA TO BE REMOVED AS REQUIRED FOR FULL PAVEMENT CROSS SECTION.

GENERAL NOTES:

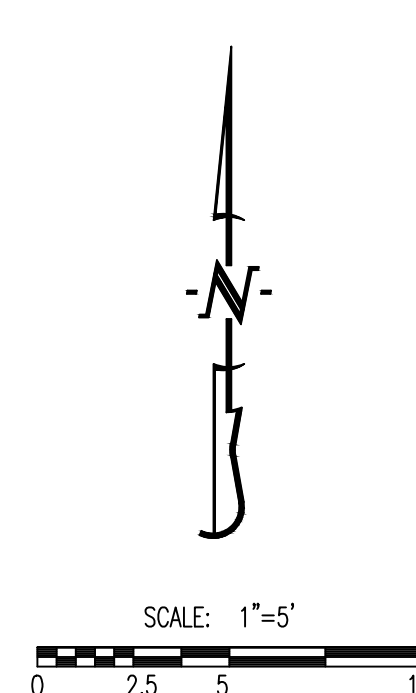
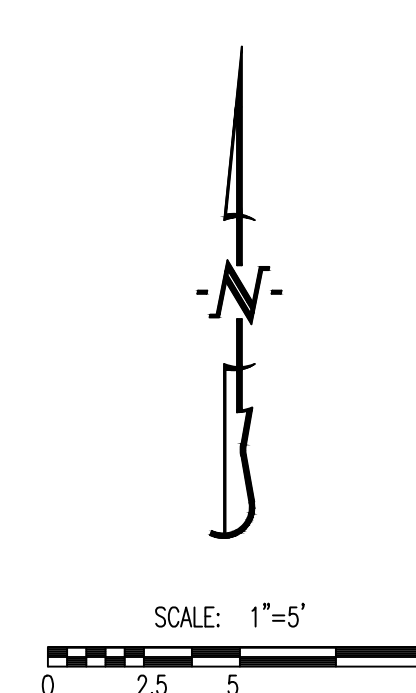
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- ALL EXCAVATION TO BE IN ACCORDANCE WITH SECTIONS 319.010-319.050, REVISED STATUTES OF THE STATE OF MISSOURI. SUCH COMPLIANCE SHALL NOT, HOWEVER, EXCUSE ANY PERSON MAKING ANY EXCAVATION FROM DOING SO IN A CAREFUL AND PRUDENT MANNER, NOR SHALL IT EXCUSE SUCH PERSON FROM LIABILITY FOR ANY DAMAGE OR INJURY TO UNDERGROUND UTILITIES RESULTING FROM THE EXCAVATION.

LEGEND OF LABELS

(A)	CONSTRUCT LIGHT DUTY CONCRETE AS SHOWN. REFER TO DETAIL 1 ON C500.
(B)	INSTALL CONSTRUCTION JOINT WHERE PROPOSED CONCRETE PAVEMENT ABUTS EXISTING CONCRETE PAVEMENT. REFER TO DETAIL 5 ON C500.
(C)	INSTALL "TYPE C" SAWED CONTROL JOINT AS SHOWN. REFER TO DETAIL 5 ON C500.
(D)	CONSTRUCT PCC STAIRS AS SHOWN. 2 RISERS AT 0.5' EA. REFER TO DETAIL F2 ON S200.
(E)	CONSTRUCT THICKENED EDGE CONCRETE PAVEMENT ABUTTING BUILDING AS SHOWN. REFER TO DETAIL 3 ON C500.
(F)	CONSTRUCT THICKENED EDGE CONCRETE PAVEMENT WITH CURB ABUTTING BUILDING AS SHOWN. REFER TO DETAIL 4 ON C500.
(G)	CONSTRUCT HEAVY DUTY PAVEMENT AS SHOWN. REFER TO DETAIL 2 ON C500.
(H)	CONSTRUCT CURB TRANSITION AS SHOWN. REFER TO PLAN FOR ELEVATIONS. REFER TO DETAIL 6 ON C500.
(I)	INSTALL 6" PIPE BOLLARD AS SHOWN. REFER TO DETAIL 7 ON C500.
(J)	INSTALL HANDRAIL AS SHOWN. REFER TO ARCHITECTURAL PLANS.

LEGEND OF SYMBOLS:

.....	EXISTING MINOR CONTOUR
-----	EXISTING MAJOR CONTOUR
.....	PROPOSED MINOR CONTOUR
-----	PROPOSED MAJOR CONTOUR
FF=XXXX	FINISHED FLOOR OF STRUCTURE
(XXXX.XX TC)	PROPOSED TOP OF CURB ELEVATION TC = (TP+6") UNLESS NOTED OTHERWISE
(XXXX.XX TP)	PROPOSED TOP OF PAVEMENT ELEVATION
(XXXX.XX TS)	PROPOSED TOP OF STEP ELEVATION
(XXXX.XX EX TP)	EXISTING TOP OF PAVEMENT ELEVATION
(XXXX.XX EX TC)	EXISTING TOP OF CURB ELEVATION
[Pattern]	PROPOSED PCC PAVEMENT
[Pattern]	PROPOSED BUILDING ADDITION

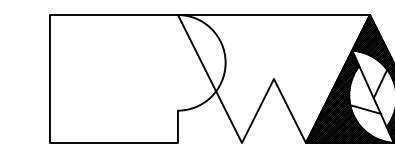


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1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

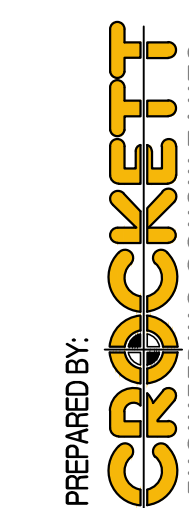


TIMOTHY D. CROCKETT
MO LICENSE 2004000775



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PREPARED BY:
CROCKETT
ENGINEERING CONSULTANTS
1000 W. Wilson Blvd., Ste. 1
Columbia, Missouri 65201
www.crockettengineering.com
Crockett Engineering Consultants, LLC
Missouri State Certificate of Authority
1400010101

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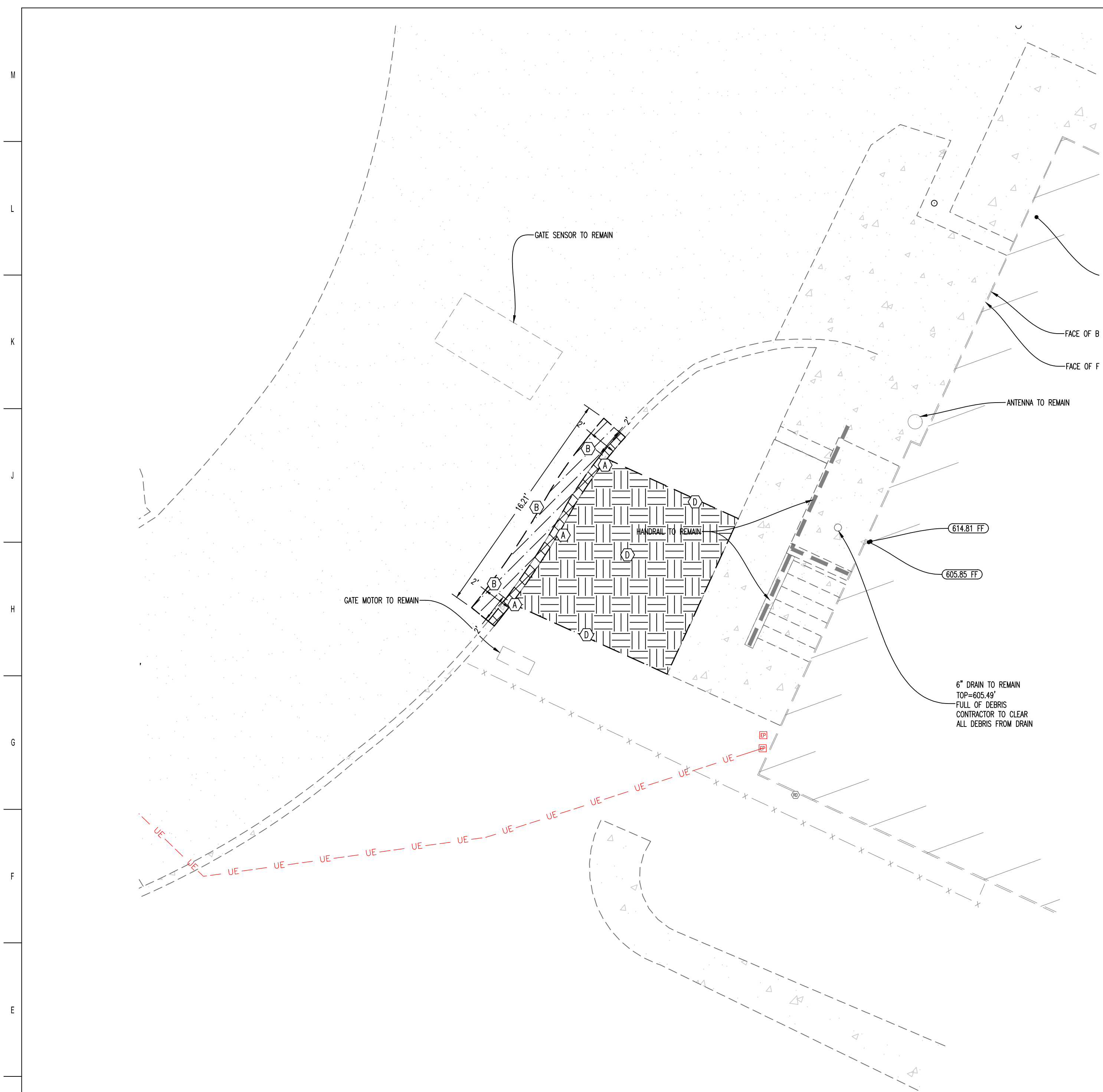
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DRAWN BY: NMD
CHECKED BY: TDC
DESIGNED BY: TDC

SHEET TITLE:
**DEMOLITION &
SITE PLAN
WEST STAIR
TOWER**

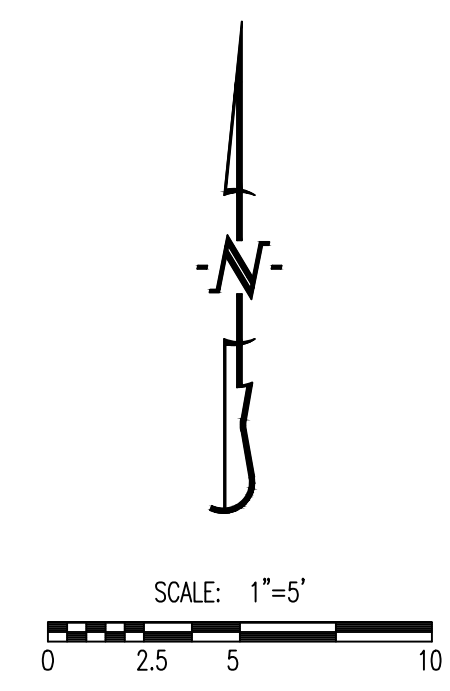
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C101

12/12/2025
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DEMOLITION PLAN



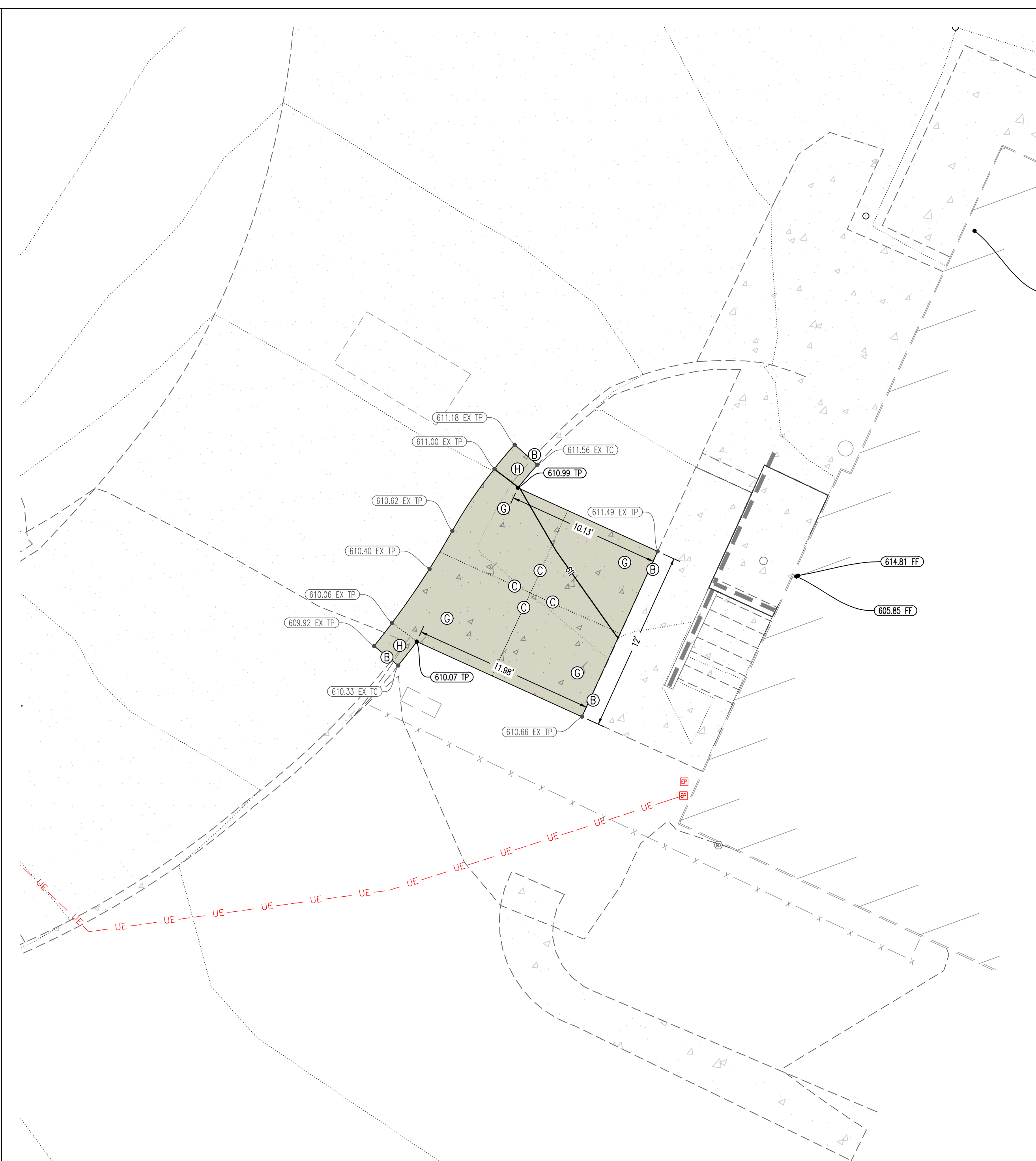
LEGEND OF LABELS:

(A)	SAWCUT AND REMOVE EXISTING CONCRETE PAVEMENT AS SHOWN. REMOVE FULL PAVEMENT CROSS SECTION. CONTRACTOR SHALL MAKE A CLEAN, FULL DEPTH CUT TO ENSURE A CLEAN TIE INTO EXISTING PAVEMENT.
(B)	SAWCUT AND REMOVE EXISTING ASPHALT PAVEMENT AS SHOWN. REMOVE FULL PAVEMENT CROSS-SECTION. CONTRACTOR SHALL MAKE A CLEAN, FULL DEPTH CUT TO ENSURE A CLEAN TIE INTO EXISTING PAVEMENT.
(C)	REFER TO STRUCTURAL AND ARCHITECTURAL PLANS FOR ADDITIONAL DEMOLITION PLANS.
(D)	EXISTING TURF AND SOIL AREA TO BE REMOVED AS REQUIRED FOR FULL PAVEMENT CROSS SECTION.

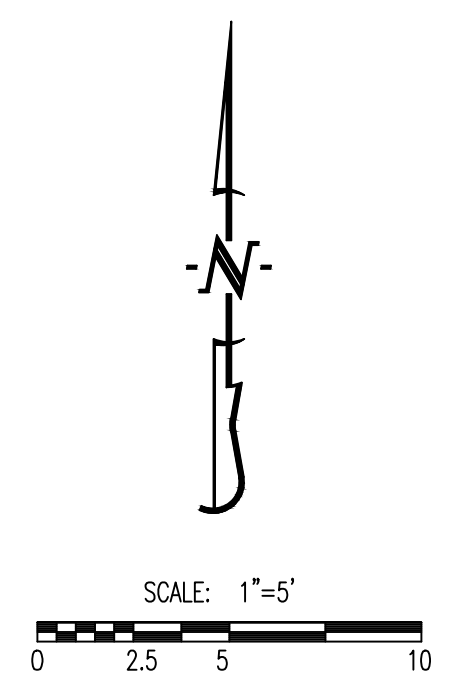
GENERAL NOTES:

1) EXISTING UTILITIES SHOWN FOR REFERENCE ONLY. CONTRACTOR SHALL COORDINATE LOCATES (HORIZONTAL AND VERTICAL) PRIOR TO ANY EXCAVATION.

2) ALL EXCAVATION TO BE IN ACCORDANCE WITH SECTIONS 319.010-319.050, REVISED STATUTES OF THE STATE OF MISSOURI. SUCH COMPLIANCE SHALL NOT, HOWEVER, EXCUSE ANY PERSON MAKING ANY EXCAVATION FROM DOING SO IN A CAREFUL AND PRUDENT MANNER, NOR SHALL IT EXCUSE SUCH PERSON FROM LIABILITY FOR ANY DAMAGE OR INJURY TO UNDERGROUND UTILITIES RESULTING FROM THE EXCAVATION.



SITE & GRADING PLAN



LEGEND OF LABELS

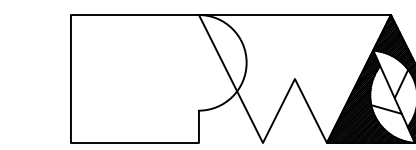
(A)	CONSTRUCT LIGHT DUTY CONCRETE AS SHOWN. REFER TO DETAIL 1 ON C500.
(B)	INSTALL CONSTRUCTION JOINT WHERE PROPOSED CONCRETE PAVEMENT ABUTS EXISTING CONCRETE PAVEMENT. REFER TO DETAIL 5 ON C500.
(C)	INSTALL "TYPE C" SAWED CONTROL JOINT AS SHOWN. REFER TO DETAIL 5 ON C500.
(D)	CONSTRUCT PCC STAIRS AS SHOWN. 2 RISERS AT 0.5' EA. REFER TO DETAIL F2 ON S200.
(E)	CONSTRUCT THICKENED EDGE CONCRETE PAVEMENT ABUTTING BUILDING AS SHOWN. REFER TO DETAIL 3 ON C500.
(F)	CONSTRUCT THICKENED EDGE CONCRETE PAVEMENT WITH CURB ABUTTING BUILDING AS SHOWN. REFER TO DETAIL 4 ON C500.
(G)	CONSTRUCT HEAVY DUTY PAVEMENT AS SHOWN. REFER TO DETAIL 2 ON C500.
(H)	CONSTRUCT CURB TRANSITION AS SHOWN. REFER TO PLAN FOR ELEVATIONS. REFER TO DETAIL 6 ON C500.
(I)	INSTALL 6" PIPE BOLLARD AS SHOWN. REFER TO DETAIL 7 ON C500.
(J)	INSTALL HANDRAIL AS SHOWN. REFER TO ARCHITECTURAL PLANS.

LEGEND OF SYMBOLS:

.....	EXISTING MINOR CONTOUR
-----	EXISTING MAJOR CONTOUR
----	PROPOSED MINOR CONTOUR
---	PROPOSED MAJOR CONTOUR
FF-XXXX	FINISHED FLOOR OF STRUCTURE
(XXXX.XX TC)	PROPOSED TOP OF CURB ELEVATION TC = (TP+6") UNLESS NOTED OTHERWISE
(XXXX.XX TP)	PROPOSED TOP OF PAVEMENT ELEVATION
(XXXX.XX TS)	PROPOSED TOP OF STEP ELEVATION
(XXXX.XX EX TP)	EXISTING TOP OF PAVEMENT ELEVATION
(XXXX.XX EX TC)	EXISTING TOP OF CURB ELEVATION
[Pattern]	PROPOSED PCC PAVEMENT
[Pattern]	PROPOSED BUILDING ADDITION



TIMOTHY D. CROCKETT
MO LICENSE 2004000775



Peckham & Wright Architects, Inc., d.b.a.
PWArchitects, Inc.
2120 Forum Blvd., Ste. 101
Columbia, Missouri 65203
PWArchitects.com | 573.449.2883

Peckham & Wright Architects an Architectural Corporation
Missouri State Certificate of Authority No. 000244

PREPARED BY:
CROCKETT
ENGINEERING CONSULTANTS
1000 W. Wilson Blvd. #166-1
Columbia, Missouri 65203
www.crockettengineering.com
Crockett Engineering Consultants, LLC
Missouri State Certificate of Authority
14000315101

**OFFICE OF
ADMINISTRATION
DIVISION OF
FACILITIES
MANAGEMENT,
DESIGN AND
CONSTRUCTION**

**REPLACE ROOF &
RENOVATE
BASEMENT/ACCESS**

**MSPH INTEROPERABILITY
2413 EAST MCCARTY ST.
JEFFERSON CITY, MO**

PROJECT # R2508-01
SITE # 6027
ASSET # 8136027002

REVISION: _____
DATE: _____
REVISION: _____
DATE: _____
REVISION: _____
DATE: _____
ISSUE DATE: 12/12/2025

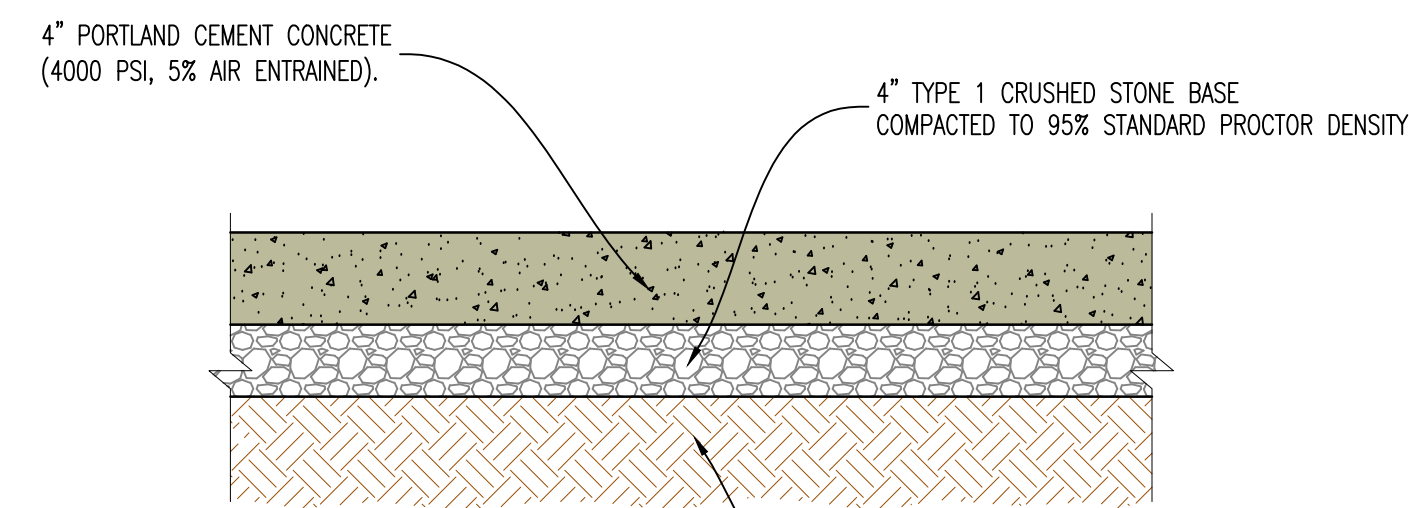
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DRAWN BY: NMD
CHECKED BY: TDC
DESIGNED BY: TDC

**SHEET TITLE:
SITE DETAILS**

SHEET NUMBER:

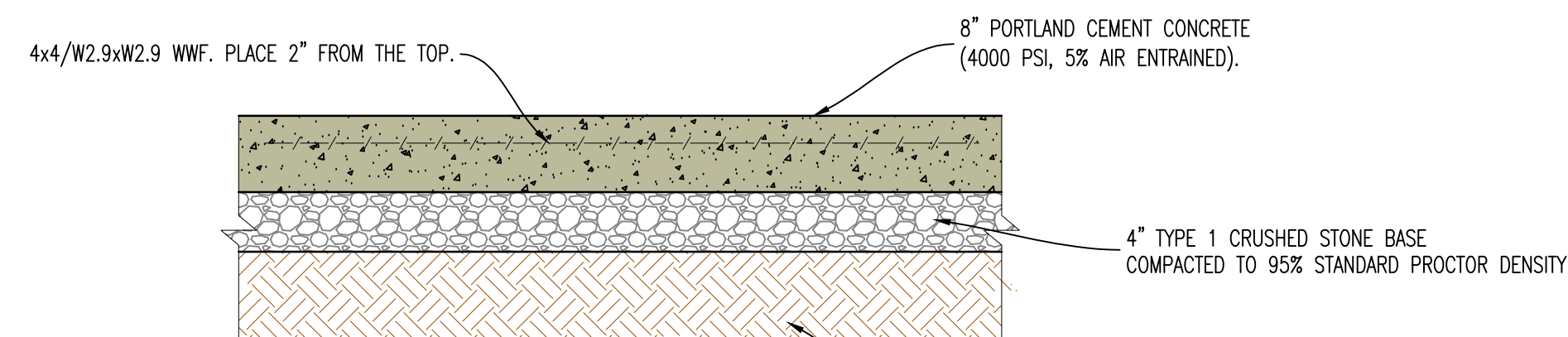
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12/12/2025
9 OF 27 SHEETS



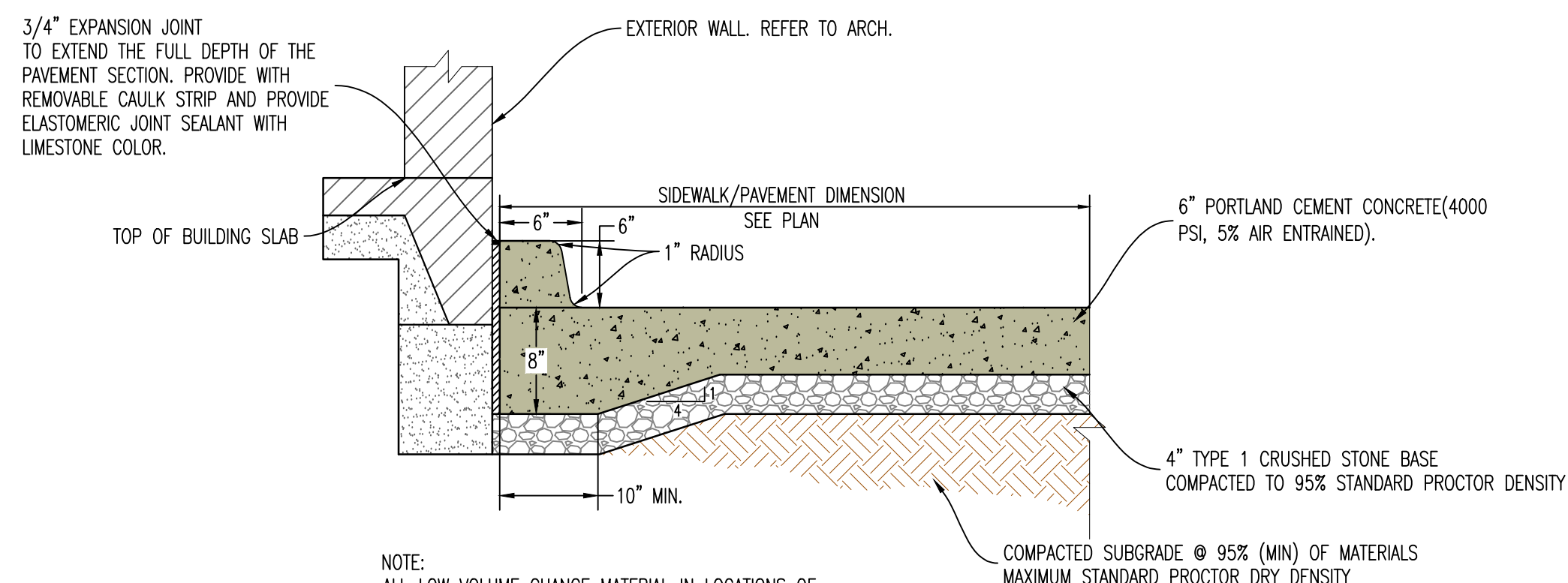
NOTE:
ALL PAVEMENT IS TO HAVE PANELS SAW CUT WITH JOINTS NO LARGER THAN 12'X12' IN SIZE. FILL JOINT WITH BITUMINOUS SEALER.

1 LIGHT DUTY CONCRETE PAVEMENT CROSS-SECTION



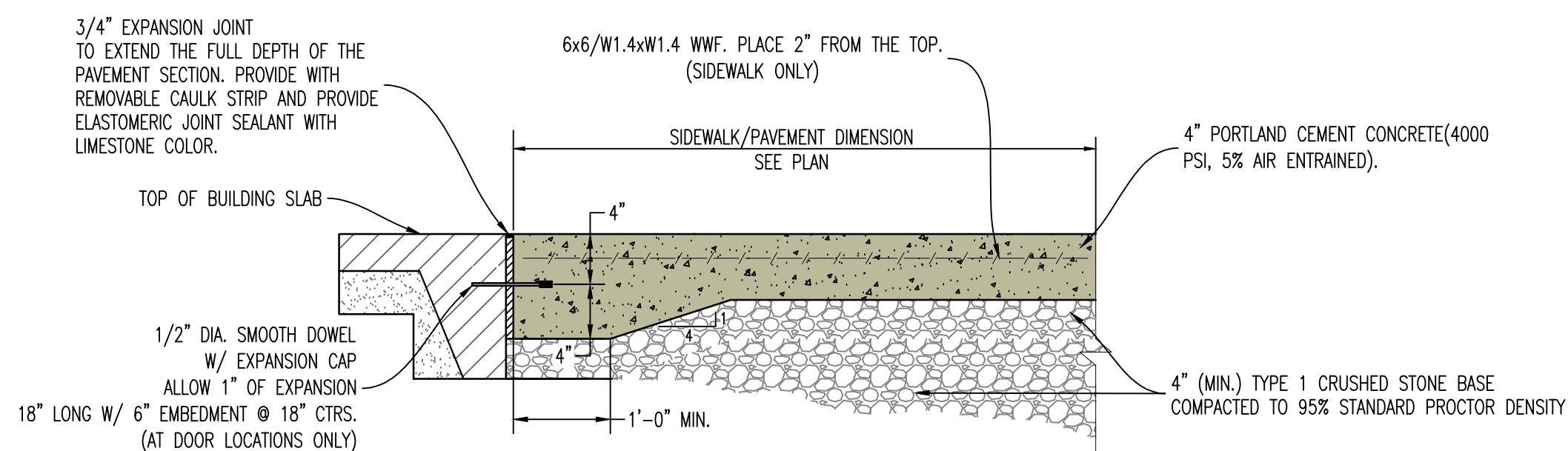
NOTE:
ALL PAVEMENT IS TO HAVE PANELS SAW CUT WITH JOINTS NO LARGER THAN 12'X12' IN SIZE. FILL JOINT WITH BITUMINOUS SEALER.

2 HEAVY DUTY CONCRETE PAVEMENT CROSS-SECTION (REINFORCED)



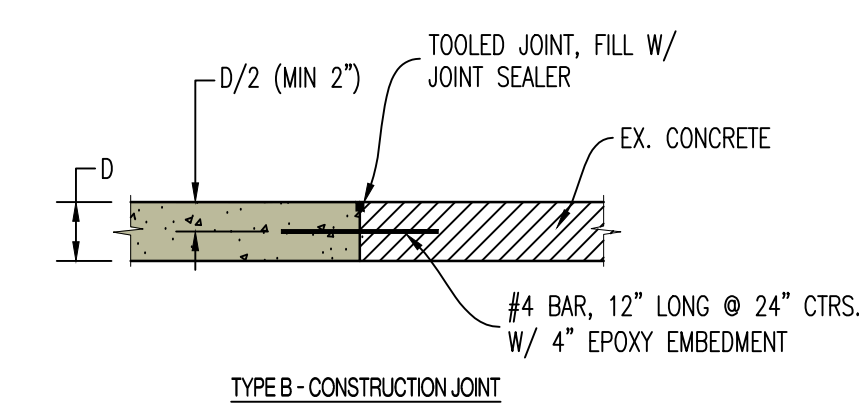
NOTE:
ALL LOW VOLUME CHANGE MATERIAL IN LOCATIONS OF SIDEWALK/PAVEMENT PLACED NEXT TO BUILDING IS TO BE REMOVED COMPLETELY AND REPLACED WITH TYPE 1 CRUSHED STONE BASE COMPACTED TO 95% STANDARD PROCTOR DENSITY PRIOR TO SIDEWALK/PAVEMENT INSTALLATION.

3 PAVEMENT ABUTTING BUILDING



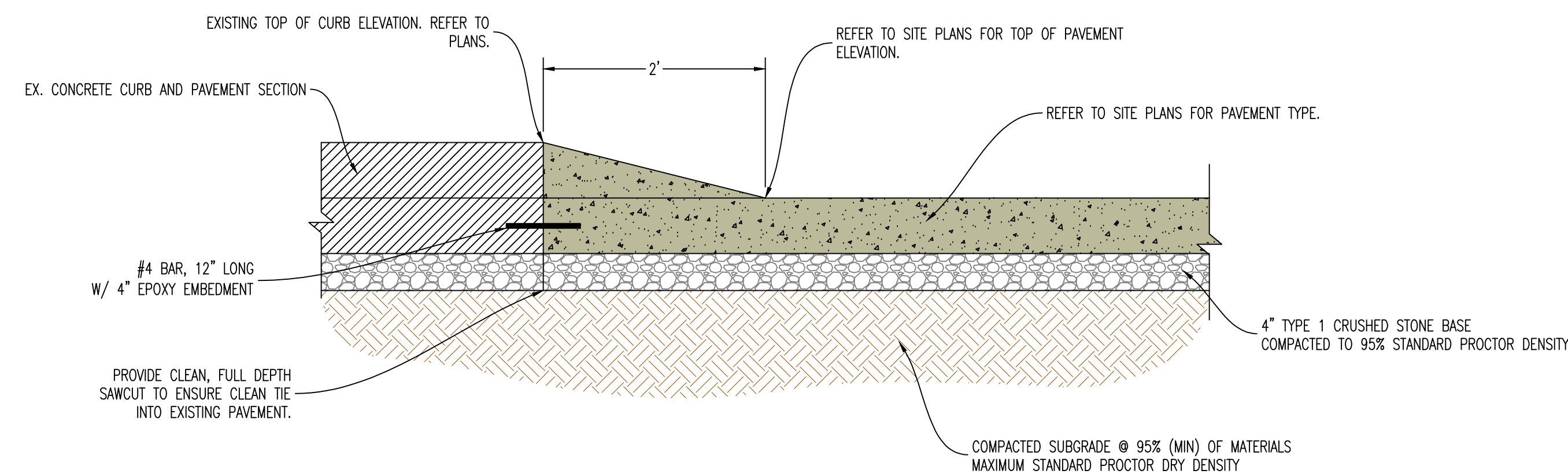
NOTE:
ALL LOW VOLUME CHANGE MATERIAL IN LOCATIONS OF SIDEWALK/PAVEMENT PLACED NEXT TO BUILDING IS TO BE REMOVED COMPLETELY AND REPLACED WITH TYPE 1 CRUSHED STONE BASE COMPACTED TO 95% STANDARD PROCTOR DENSITY PRIOR TO SIDEWALK/PAVEMENT INSTALLATION.

4 SIDEWALK ABUTTING BUILDING

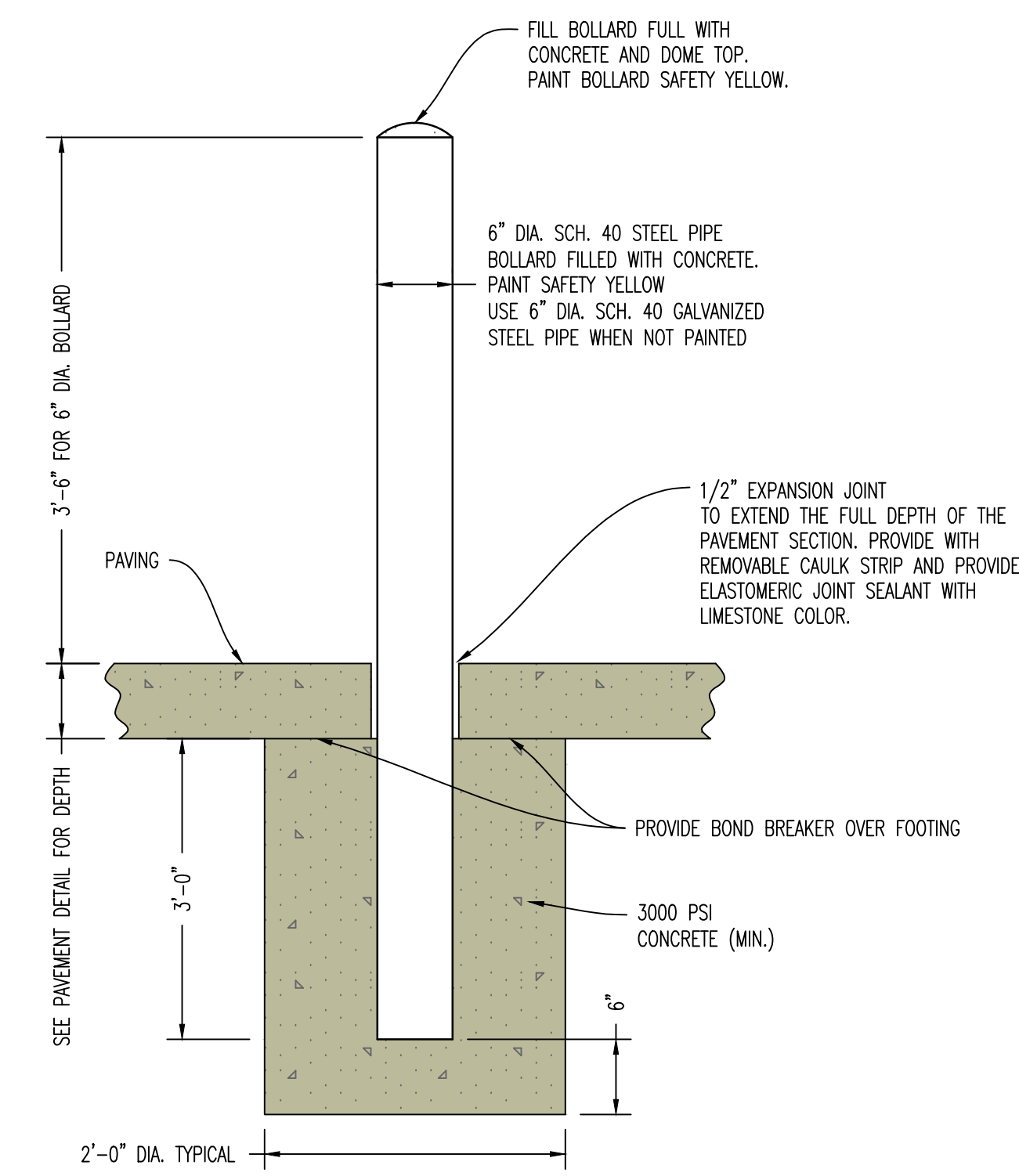


NOTE:
JOINT SEALER TO BE BITUMINOUS SEALER.

5 CONCRETE PAVEMENT JOINT DETAILS



6 CURB TRANSITION DETAIL



7 BOLLARD INSTALLATION DETAIL

MSP Interoperability Addition

Jefferson City, Cole County, Missouri

STATE OF MISSOURI
MIKE KEHOE,
GOVERNOR



12/12/2026



Peckham & Wright Architects, Inc., d.b.a.
PWArchitects, Inc.
2120 Forum Blvd., Ste. 101
Columbia, Missouri 65203
PWAarchitects.com | 573.449.2683
Peckham & Wright Architects an Architectural Corporation
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1000 W. Nifong Blvd., Bldg. 1
Columbia, Missouri 65203
(573) 447-0292
www.crockettengineering.com
Crockett Engineering Consultants, LLC
Missouri Certificate of Authority #200015101

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MSP INTEROPERABILITY
2413 EAST MCCARTY ST.
JEFFERSON CITY, MO

PROJECT # R2508-01
SITE # 5300
ASSET # 57000

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CAD DWG FILE: 250208
DRAWN BY: JGC
CHECKED BY: JWV
DESIGNED BY: JWV

SHEET TITLE:
**GENERAL
STRUCTURAL
DATA**

SHEET NUMBER:

S100

12/12/2025
10 OF 27 SHEETS

GENERAL NOTES

ELEVATION DATUM
SEE ARCHITECTURAL DRAWINGS OR SITE PLAN FOR FINISH FLOOR ELEVATIONS

DESIGN SPECIFICATIONS
2018 INTERNATIONAL BUILDING CODE

EARTHWORK
EARTHWORK OPERATIONS SHALL BE PERFORMED UNDER THE DIRECTION OF A PROFESSIONAL TESTING AGENCY TO ASSURE COMPLIANCE WITH THE RECOMMENDATIONS OF THE SOILS REPORT BY CROCKETT GTL DATED MAY 6, 2025.

CONCRETE

CONCRETE WORK SHALL CONFORM TO ALL REQUIREMENTS OF THE CURRENT ACI 301, SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS, ACI 318 BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE, ACI 305 SPECIFICATIONS FOR HOT WATER CONCRETE, AND ACI 306 SPECIFICATIONS FOR COLD WEATHER CONCRETE, WITH THE FOLLOWING ADDITIONAL REQUIREMENTS:

- CONCRETE SHALL DEVELOP THE FOLLOWING 28-DAY MINIMUM COMPRESSIVE STRENGTH:

FOUNDATIONS	-	3,000 PSI, 500# MIN. CEMENT/FLY ASH, 0.45 W/C RATIO
CAST-IN-PLACE WALLS	-	3,500 PSI, 540# MIN. CEMENT/FLY ASH, 0.45 W/C RATIO
FLOOR SLAB	-	4,000 PSI, 565# MIN. CEMENT ONLY, 0.45 W/C RATIO
EXTERIOR SLABS, WALLS AND CURBS	-	4,000 PSI, 580# MIN. CEMENT/FLY ASH, 0.42 W/C RATIO
- ALL FOOTINGS SHALL BEAR ON UNDISTURBED SOIL OR ENGINEERED FILL.
- CHLORIDE-BASED ADMIXTURES ARE PROHIBITED IN ALL REINFORCED CONCRETE.
- REINFORCING STEEL SHALL CONFORM TO ASTM A615, A616, OR A617, GRADE 60.
- ALL CONTINUOUS REINFORCING STEEL THAT MEETS AT A CORNER SHALL BE TIED TOGETHER WITH A CORNER BAR THAT HAS SUFFICIENT LAP DISTANCE IN EACH DIRECTION.
- CONTINUOUS REINFORCING BARS LAP LENGTH SHALL BE A MINIMUM OF 48 BAR DIAMETERS UNLESS NOTED OTHERWISE.
- CONCRETE SLUMP SHALL BE A MAXIMUM OF 4" +/- 1" (ASTM C-143) AS DELIVERED IN THE FIELD. CONTRACTOR MAY USE CHEMICAL ADMIXTURES TO ATTAIN A MAXIMUM SLUMP OF 8" FOR WORKABILITY. NO WATER MAY BE ADDED TO THE CONCRETE MIX ON SITE UNLESS WATER IS WITHHELD AT THE BATCHING FACILITY. IF WATER IS WITHHELD AT THE BATCHING FACILITY IT SHOULD BE REFLECTED ON THE LOAD TICKET. THE TOTAL AMOUNT OF WATER IN THE MIX SHALL NOT EXCEED WHAT IS NOTED ON THE APPROVED MIXED. THIS SHALL BE NOTED IN THE SPECIAL INSPECTOR'S RECORDS.
- CONCRETE EXPOSED TO WEATHER, VEHICLES, AND/OR DEICING CHEMICALS SHALL BE AIR-ENTRAINED WITH 6% (+/-) 1.5% ENTRAINMENT AIR BY VOLUME AT POINT OF DISCHARGE. DO NOT ALLOW AIR CONTENT OF TROWELED FINISHED FLOORS TO EXCEED 3%.
- SUBMIT CONCRETE MIX PROPORTIONS PRIOR TO START OF WORK. DO NOT BEGIN CONCRETE PRODUCTION UNTIL MIXES HAVE BEEN REVIEWED AND ARE ACCEPTABLE TO THE ENGINEER.
- READY MIX CONCRETE SHALL COMPLY WITH REQUIREMENTS OF ASTM C94.
- CONCRETE WORK EXECUTION
 - CONSTRUCT FORMS TO CORRECT SIZE, SHAPE, ALIGNMENT, ELEVATION AND POSITION; AND TO SUPPORT VERTICAL AND LATERAL LOADS.
 - POSITION, SUPPORT, AND SECURE REINFORCEMENT AGAINST DISPLACEMENT. MINIMUM CONCRETE COVER FOR REINFORCEMENT SHALL BE, UNLESS NOTED OTHERWISE ON THE DRAWINGS:

CAST AGAINST AND EXPOSED TO EARTH.....	3 INCHES
EXPOSED TO EARTH OR WEATHER.....	2 INCHES
NOT EXPOSED TO WEATHER OR	
IN CONTACT WITH EARTH.....	1 1/2 INCHES
 - PROVIDE CONTROL JOINTS IN SLABS-ON-GRADE AT NOT GREATER THAN 15 FEET ON CENTER IN EACH DIRECTION. SAW CUT CONTROL JOINTS MINIMUM 1/4 OF SLAB DEPTH, AS SOON AFTER SLAB FINISHING WITHOUT DISLODGING AGGREGATE.
 - STEEL TROWEL FINISH ALL INTERIOR CONCRETE SLABS, BROOM FINISH ALL EXTERIOR CONCRETE SLABS.
 - CURE ALL CONCRETE IN COMPLIANCE WITH ACI 301, USING A LIQUID TYPE MEMBRANE, NON-RESIDUAL, CURING COMPOUND COMPLYING WITH ASTM C309. ASSURE COMPATIBILITY WITH FINISH FLOOR COVERING.

POST-INSTALLED ANCHORS

- ALL POST-INSTALLED ANCHORS SHALL MEET THE REQUIREMENTS OF THE CODE-CITED EDITION OF ACI 318, APPENDIX "D", AND SHALL BE ACCEPTABLE FOR BOTH CRACKED AND UNCRACKED CONCRETE.
- EXPANSION ANCHORS HAVE BEEN DESIGNED AS HILTI KWIK BOLT TZ ANCHORS, UNLESS NOTED OTHERWISE.
- ADHESIVE ANCHORS HAVE BEEN DESIGNED TO USE HILTI HIT HY 200 ADHESIVE IN CONCRETE OR SOLID MASONRY, UNLESS NOTED OTHERWISE.
- EQUIVALENT ANCHORS MAY BE SUBMITTED FOR THE ENGINEER'S APPROVAL. SUBMITTALS ARE THE CONTRACTOR'S RESPONSIBILITY AND MUST INCLUDE EVALUATION REPORTS FROM THE INTERNATIONAL CONFERENCE OF BUILDING OFFICIALS (ICBO).
- EMBEDMENT DEPTH IS DEFINED AS THE DISTANCE FROM THE SURFACE OF THE LOAD-BEARING BASE MATERIAL TO THE DEEPEST PART OF THE ANCHOR AFTER THE ANCHOR HAS BEEN DRIVEN INTO THE HOLE BUT NOT YET EXPANDED.
- ADHESIVE ANCHORS SHALL BE ACCEPTABLE FOR LONG-TERM LOADS. WHEN BASE MATERIAL TEMPERATURES ARE BELOW 40 DEG F, ONLY NON-EPOXY-BASED ADHESIVES SHALL BE USED.
- POST-INSTALLED ANCHORS SHALL ONLY BE USED WHERE SPECIFIED ON THE DRAWINGS. THE CONTRACTOR SHALL OBTAIN APPROVAL FROM THE ENGINEER PRIOR TO USING POST-INSTALLED ANCHORS FOR MISSING OR MISPLACED CAST-IN-PLACE ANCHORS. CARE SHALL BE TAKEN TO AVOID CONFLICTS WITH EXISTING REINFORCING BARS. HOLES SHALL BE DRILLED AND CLEANED PER ANCHOR MANUFACTURER'S SPECIFICATIONS.
- STAINLESS STEEL ANCHORS ARE REQUIRED AT ALL PERMANENTLY EXPOSED WEATHER CONDITIONS.

COLD-FORMED METAL FRAMING

- ALL PRODUCTS TO BE MANUFACTURED BY CURRENT MEMBERS OF THE STEEL STUD MANUFACTURERS ASSOCIATION.
- ALL GALVANIZED STUDS AND JOISTS SHALL BE FORMED FROM STEEL THAT CORRESPONDS TO THE MINIMUM REQUIREMENTS OF THE AISI STANDARDS. F_y= 33 KSI UNLESS NOTED OTHERWISE.
- ALL STRUCTURAL MEMBERS SHALL BE DESIGNED IN ACCORDANCE WITH THE AISI SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS, AND SHALL CONFORM TO ASTM C955.
- FASTENING OF COMPONENTS SHALL BE WITH CORROSION RESISTANT SELF-DRILLING SCREWS, OR WELDS COMPLYING WITH AWS STANDARDS. ALL WELDS OF GALVANIZED STEEL SHALL BE TOUCHED UP WITH ZINC-RICH PAINT. WELDERS SHALL BE QUALIFIED PER AWS D1.3.
- SLIP TRACK IS EXPECTED AT ROOF TO WALL CONNECTIONS @ INTERIOR WHEN WALLS ARE GROUND SUPPORTED.

STRUCTURAL STEEL

- FABRICATION AND ERECTION OF STRUCTURAL STEEL SHALL BE IN ACCORDANCE WITH THE CURRENT EDITION OF THE AISI SPECIFICATIONS FOR STRUCTURAL STEEL BUILDINGS, THE AISI CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES AND CURRENT OSHA STANDARDS.
- WIDE FLANGE SHAPES SHALL CONFORM TO ASTM A992. STRUCTURAL TUBES SHALL CONFORM TO ASTM A500 GRADE B. ALL OTHER STRUCTURAL STEEL SHALL CONFORM TO ASTM A36.
- BOLTS, UNLESS OTHERWISE SHOWN, SHALL CONFORM TO ASTM A325-N, SIZE AS PER PLAN.
- ANCHOR BOLTS, UNLESS OTHERWISE SHOWN, SHALL CONFORM TO ASTM F1554 GRADE 36.
- SPRUEING OF STRUCTURAL STEEL IS PROHIBITED EXCEPT AS DETAILED.
- ALL STRUCTURAL AND MISCELLANEOUS STEEL ITEMS SHALL RECEIVE ONE COAT OF "IRONCLAD RETARDO RUST INHIBITIVE PAINT 163" (BENJAMIN MOORE) OR APPROVED EQUAL UNLESS OTHERWISE INDICATED IN THE SPECIFICATIONS. ALL STEEL SURFACES EMBEDDED IN CONCRETE SHALL NOT BE PAINTED. PREPARATION OF STEEL SURFACES SHALL MEET THE REQUIREMENTS OF THE STEEL STRUCTURES PAINTING COUNCIL (SSPC-SP1) AND THE REMOVAL OF GREASE AND OIL BY SOLVENT CLEANING (SSPC-SP1) AND THE REMOVAL OF MILL SCALE, RUST, WELD FLUX AND SLAG BY HAND TOOL CLEANING (SSPC-SP2). PRIMER SHALL BE APPLIED AT THE MANUFACTURER'S RECOMMENDED RATE BUT NOT LESS THAN ONE GALLON PER 400 SQ.FT. THEREBY DEPOSITING A DRY FILM THICKNESS OF NOT LESS THAN 1.5 MILS. ANY SCARRED AREAS SHALL BE TOUCHED UP WITH THE SAME PAINT AFTER ERECTION.
- ALL WELDING SHALL BE DONE BY QUALIFIED WELDERS IN ACCORDANCE WITH THE CURRENT EDITION OF THE AWS STRUCTURAL WELDING CODE. WELDING ELECTRODES SHALL BE E70XX.

STEEL ROOF DECK

- THE DESIGN, FABRICATION AND ERECTION OF THE STEEL ROOF DECK SHALL BE IN ACCORDANCE WITH THE CURRENT EDITION OF THE SDI SPECIFICATIONS AND COMMENTARY FOR STEEL ROOF DECK AND THE SDI DIAPHRAGM DESIGN MANUAL.
- MINIMUM END LAP SHALL BE 3".
- ALL WELDING SHALL BE DONE BY QUALIFIED WELDERS IN ACCORDANCE WITH THE CURRENT EDITION OF THE AWS SPECIFICATIONS FOR WELDED SHEET STEEL AND ITS COMMENTARY. WELDING ELECTRODES SHALL BE E6022. HOBART #1139, 5/32" DIAMETER WELDING ELECTRODES MEET THIS REQUIREMENT.
- ROOF DECK SHALL RECEIVE ONE COAT OF MANUFACTURER'S STANDARD PRIMER. ALL DECK WELDS SHALL BE PAINTED WITH RUST PROHIBITIVE METAL PRIMER PRIOR TO ROOFING. COLOR TO BE DETERMINED BY OWNER OR ARCHITECT.
- ROOF DECK SHALL BE CONTINUOUS OVER A MINIMUM OF THREE SPANS.
- ROOF DECK BUNDLES SHALL BE PLACED ON JOISTS WITH EXTREME CAUTION, FOLLOWING THE JOIST MANUFACTURER'S RECOMMENDATIONS FOR PROPER PLACEMENT.
- DECKING OR DECK ACCESSORY BUNDLES SHALL NOT EXCEED 4,000 LBS.

SPECIAL INSPECTIONS

THE FOLLOWING ITEMS REQUIRE SPECIAL INSPECTION IN ACCORDANCE WITH CHAPTER 17 OF THE INTERNATIONAL BUILDING CODE.

- CONCRETE GROUT DESIGN MIX (PERIODIC)
- PLACING OF CONCRETE AND REINFORCING STEEL (CONTINUOUS OF CONCRETE SAMPLING / PERIODIC OF REINFORCING)
- BOLTS & ANCHORS EMBEDDED IN CONCRETE (PERIODIC)
- STRUCTURAL STEEL FABRICATIONS (UNLESS AISI APPROVED) (PERIODIC)
- STRUCTURAL STEEL BOLTING & WELDING (PERIODIC)
- POST INSTALLED ANCHORS IN CONCRETE (CONTINUOUS)
- IN-SITU SOILS, EXCAVATIONS, FILLING & COMPACTION (PERIODIC)
- COLD-FORMED FRAMING:
 - STRAP BRACING (PERIODIC)
 - DIAPHRAGMS (FLOOR); SIZE, CONFIGURATION, BLOCKING, PANEL GRADE, PANEL THICKNESS, AND FASTENING. (PERIODIC)
 - FRAMING MEMBERS AND DETAILS (PERIODIC)
 - MATERIAL GRADE (PERIODIC)
 - CONNECTIONS; HANGERS, HOLD DOWNS, BUILT-UP COLUMNS, BUILT-UP BEAMS (PERIODIC)
 - PRE-ENGINEERED TRUSSES; FRAMING, CONNECTIONS, BRIDGING (PERIODIC)

THE CONTRACTOR SHALL REQUEST SPECIAL INSPECTION OF THE ITEMS LISTED ABOVE PRIOR TO THOSE ITEMS BECOMING INACCESSIBLE AND UNOBSERVABLE DUE TO PROGRESSION OF THE WORK.

DESIGN DATA

2018 INTERNATIONAL BUILDING CODE / ASCE 7-16

BUILDING OCCUPANCY CATEGORY	I
ROOF LOADS	
LIVE LOAD	20
ROOF MEMBRANE	2
RIGID INSULATION	6
20 GA METAL DECK	4
ROOF JOIST	2
MECHANICAL ALLOWANCE	3
MSC COLLATERAL	3
TOTAL	40 lbs/sqft

ROOF SNOW LOAD*

(*UNBALANCED & DRIFTING SNOW TO BE DETERMINED IN ADDITION TO UNIFORM LOAD, WHERE APPLICABLE)

P _s =	20 lbs/sqft
C _e =	10
I _s =	10
C _d =	10
P _f =	155 lbs/sqft

BASIC DESIGN WIND LOAD

V =	108 MPH (3-SECOND GUST)
EXPOSURE	C
INTERNAL PRESSURE COEFFICIENT =	+ 0.18
COMPONENTS & CLADDING WIND (Q F _T)	=41 lbs/sqft

EARTHQUAKE DESIGN DATA

S _{ps} =	0.193
S _p =	0.106
S _{ps} =	0.167
S _{ps} =	0.106

SITE CLASS	D (ASSUMED)
I _e =	10

SEISMIC DESIGN CATEGORY C

BASIC SEISMIC-FORCE-RESISTING SYSTEM =
LIGHT-FRAME (COLD-FORMED STEEL) WALL SYSTEMS USING FLAT STRAP BRACING

R =	4
Ω ₀ =	2
C _s =	3.5

EQUIVALENT LATERAL FORCE PROCEDURE
V = 0.042W

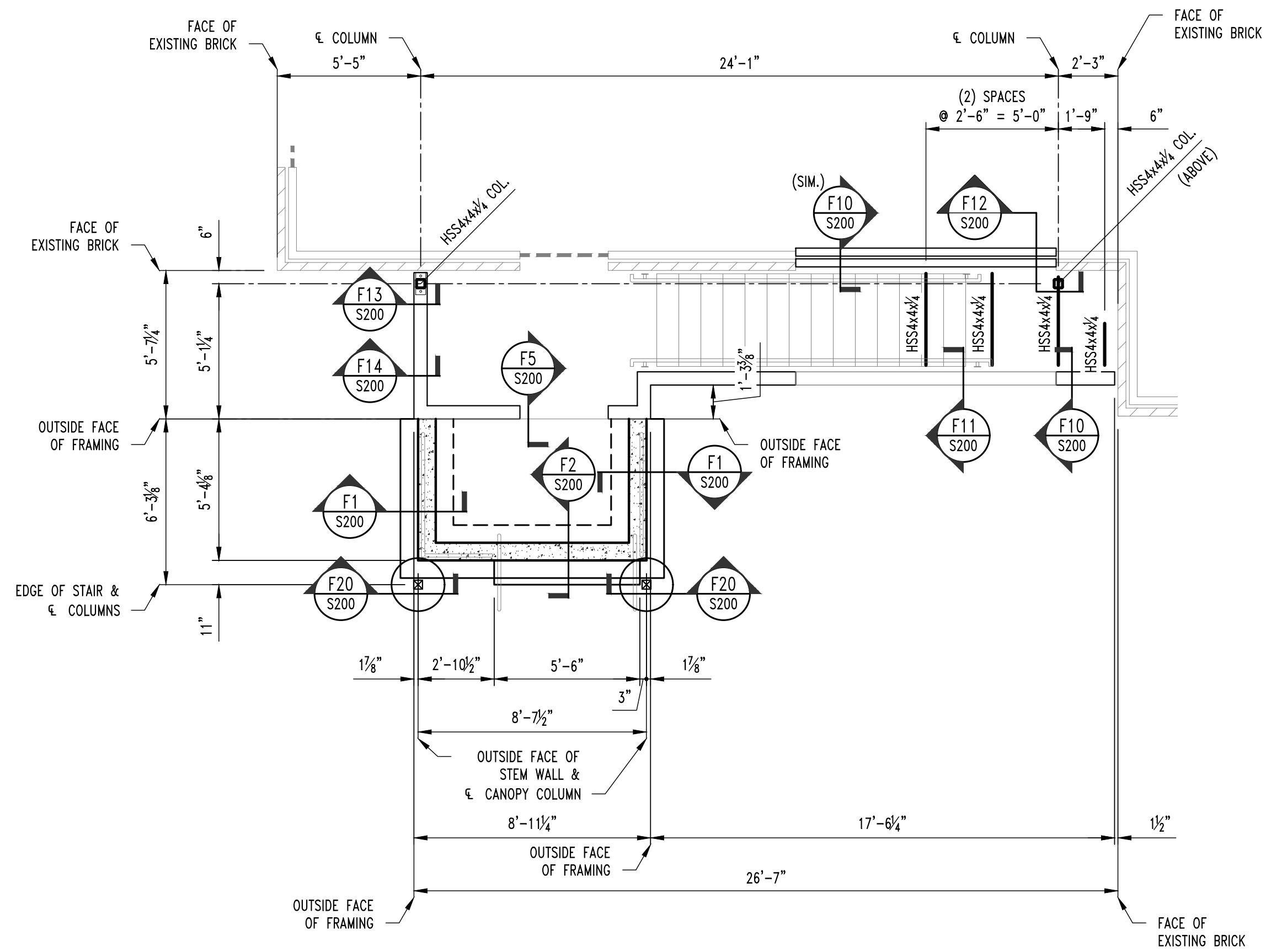
NET ALLOWABLE SOIL BEARING	1300 lbs/sqft (CONTINUOUS)
	1500 lbs/sqft (ISOLATED)

(*PER THE GEOTECHNICAL REPORT BY CROCKETT GTL DATED MAY 6, 2025)

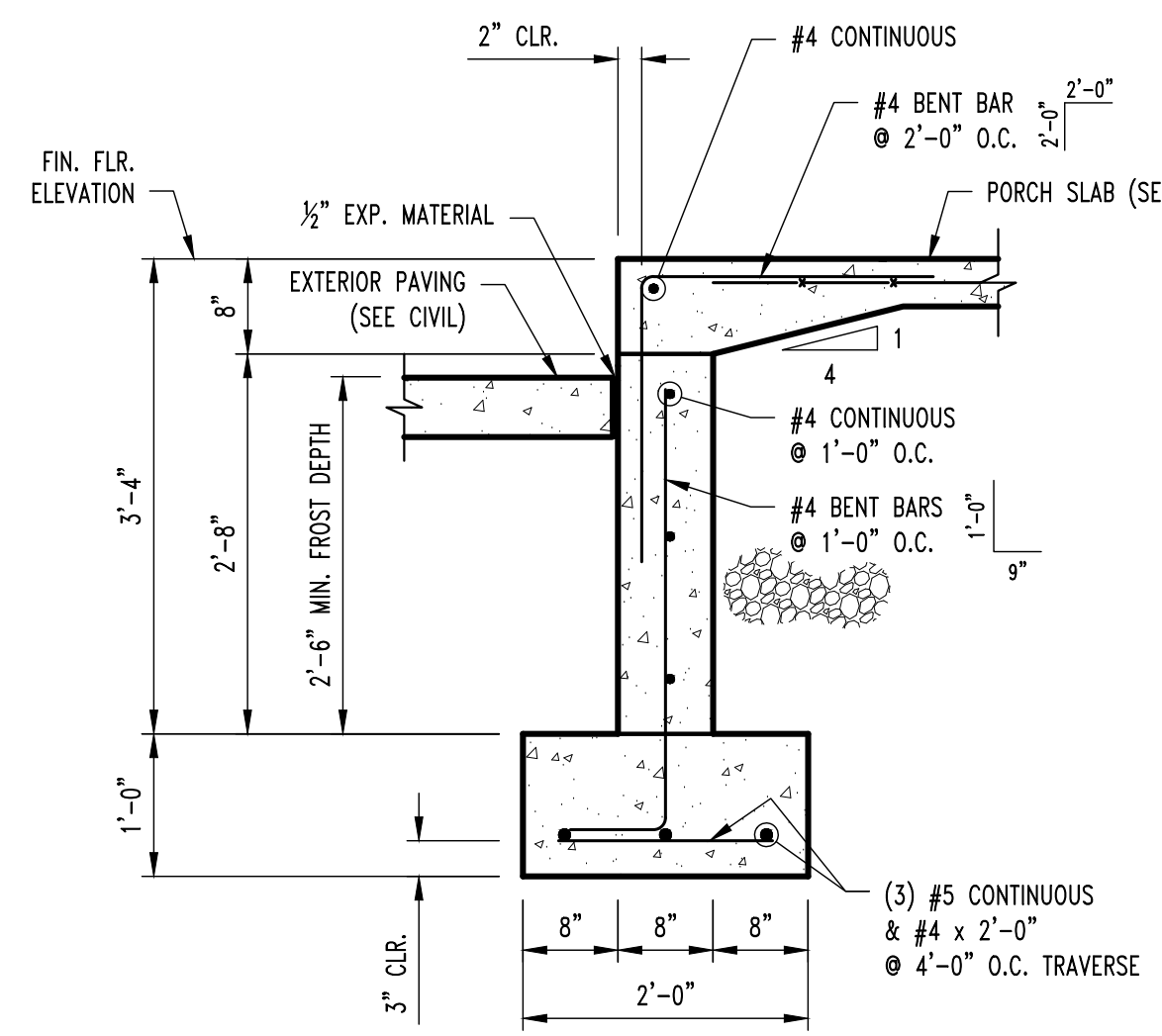
INDEX OF SHEETS

COVER / GENERAL STRUCTURAL DATA	S100
FOUNDATION PLAN & DETAILS	S200
FRAMING PLAN & DETAILS	S300

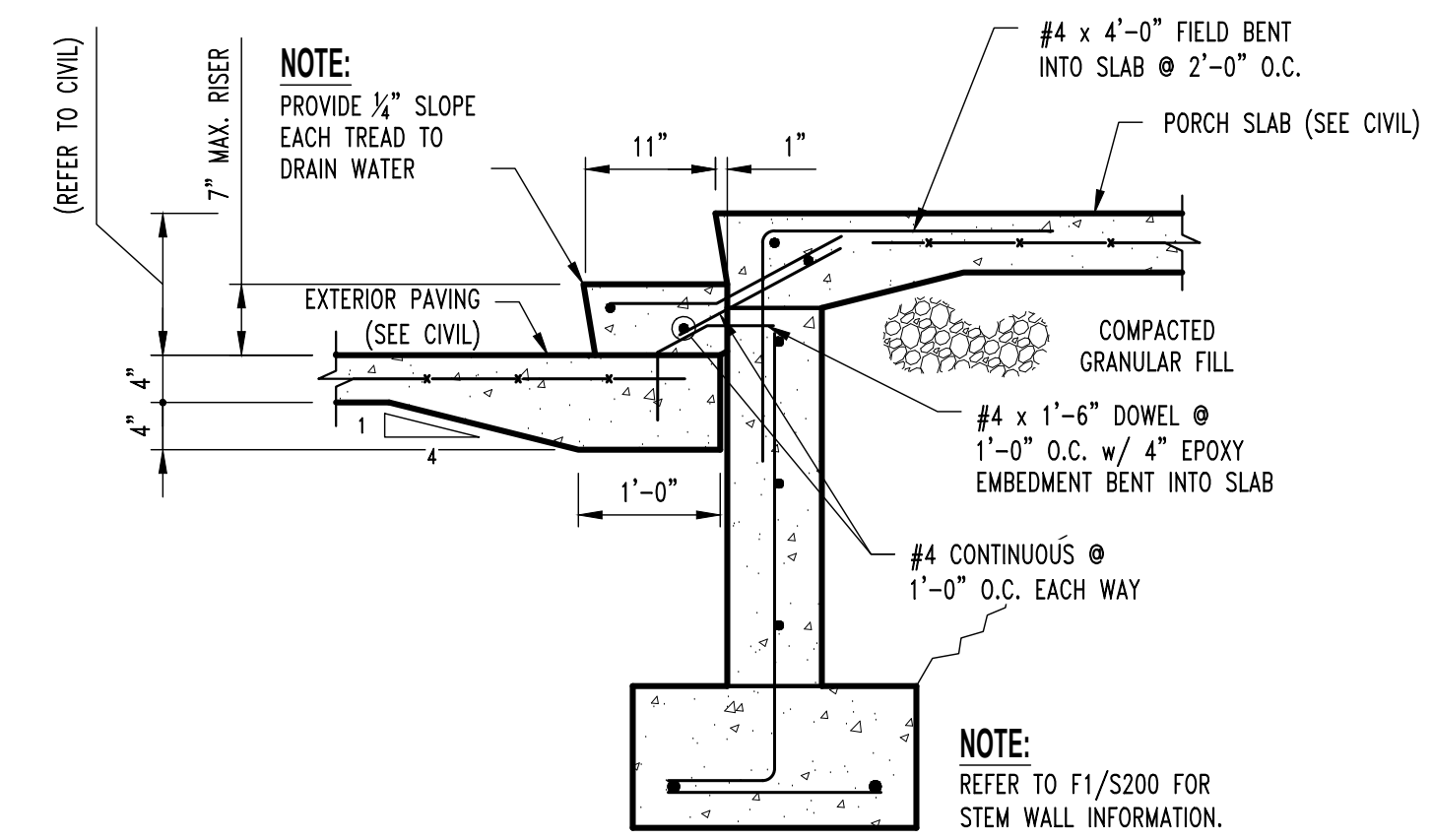
NOTE:
ALL DIMENSIONS ARE FROM FACE OF FOUNDATION WALL OR FRAMING;
EDGE OF SLAB OR TRUSS/RAFTER; OR CENTERLINE
OF COLUMN, BEAM, OR JOIST UNLESS NOTED OTHERWISE.



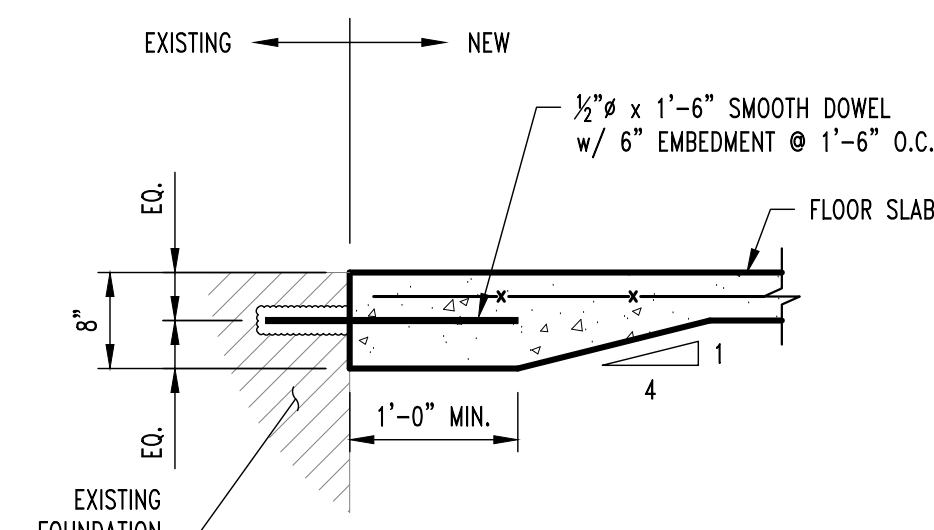
1 FOUNDATION / CEILING PLAN
SCALE: 1/2" = 1'-0"
TRUE NORTH



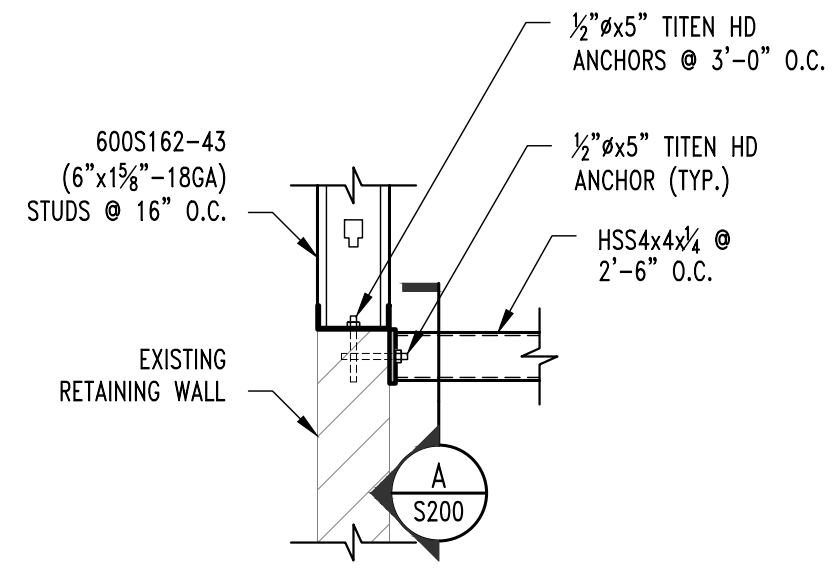
F1 STEM WALL SECTION
SCALE: 3/4" = 1'-0"



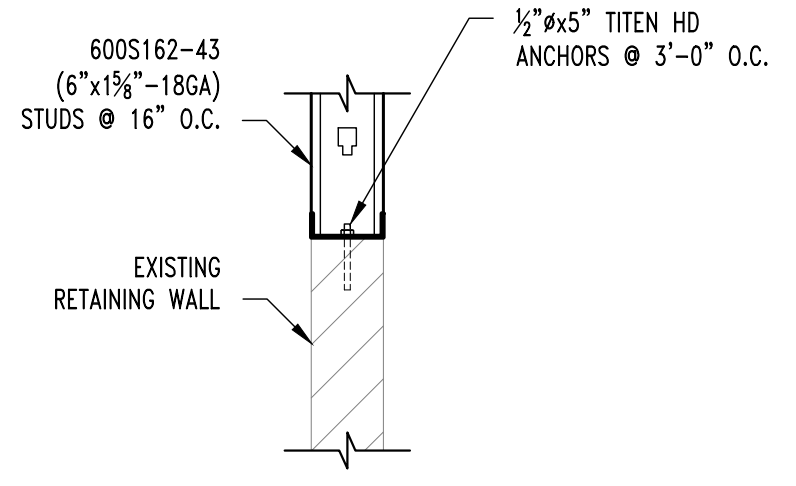
F2 EXTERIOR CONCRETE STAIR SECTION
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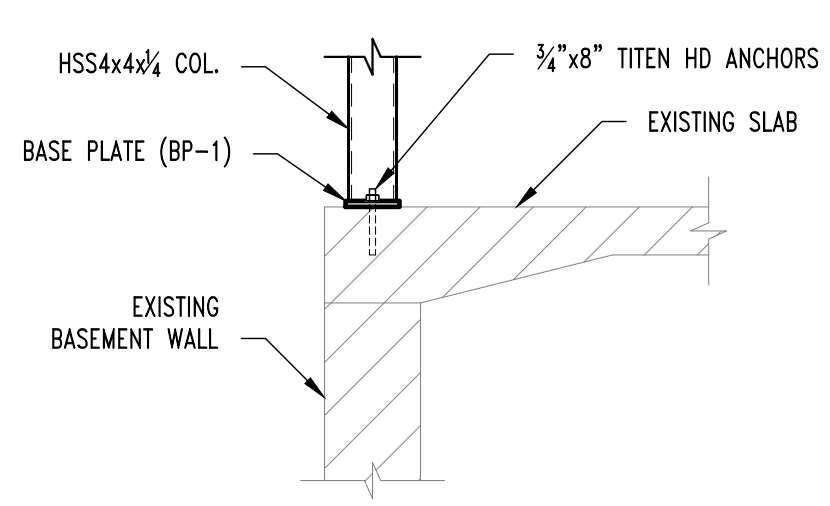
F5 SLAB @ EXISTING
SCALE: 3/4" = 1'-0"



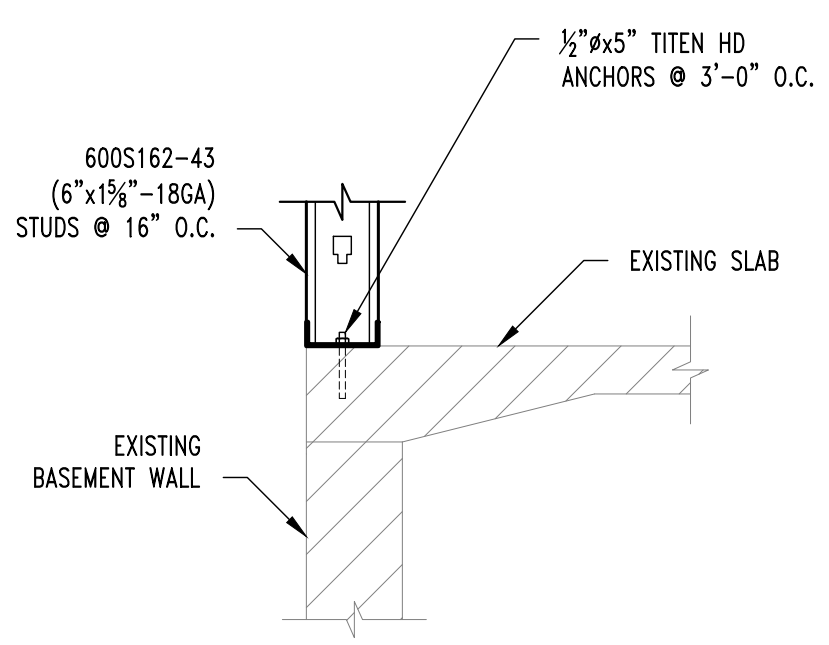
F10 FOUNDATION SECTION
SCALE: 3/4" = 1'-0"



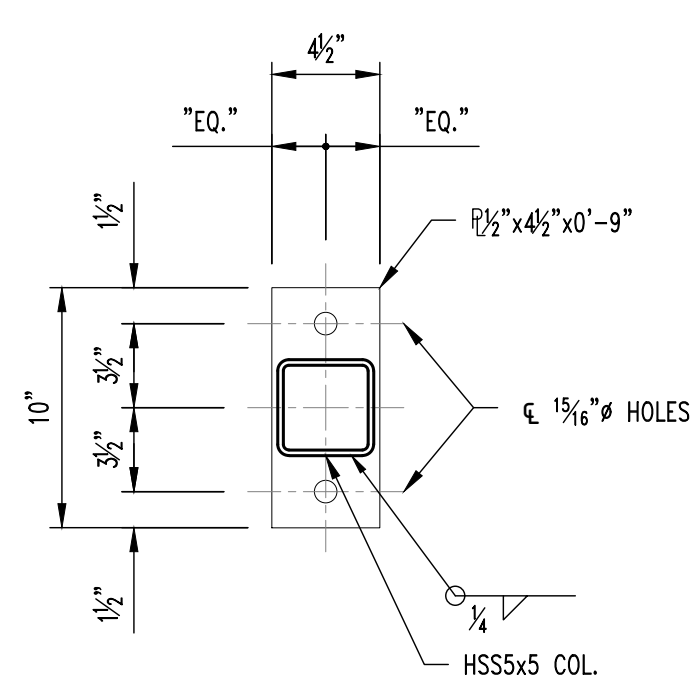
F11 FOUNDATION SECTION
SCALE: 3/4" = 1'-0"



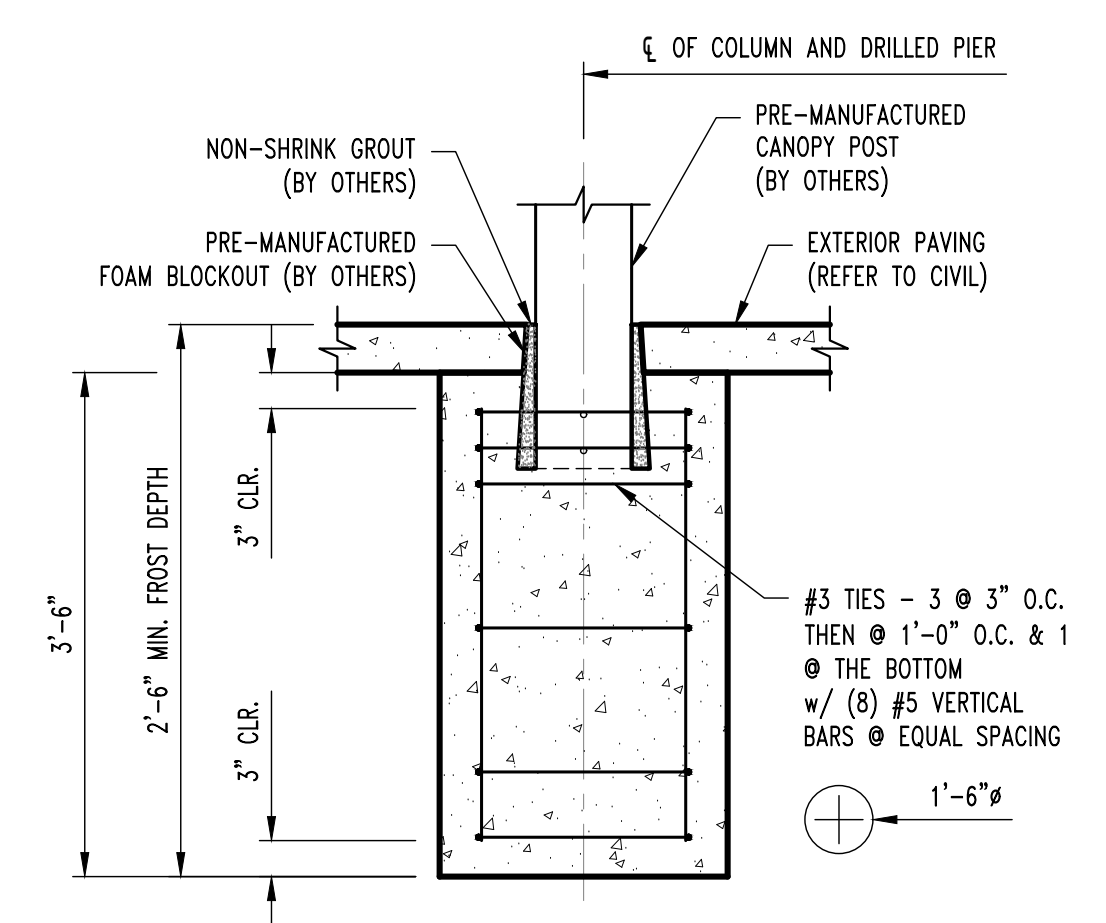
F13 FOUNDATION SECTION
SCALE: 3/4" = 1'-0"



F14 FOUNDATION SECTION
SCALE: 3/4" = 1'-0"



A BASE PLATE (BP-1)
SCALE: 1/2" = 1'-0"



F20 CANOPY PIER SECTION
SCALE: 3/4" = 1'-0"

NOTE:
CONFIRM FINAL PIER SIZE &
LOCATION w/ CANOPY SUPPLIER
PRIOR TO INSTALLATION



12/12/2026



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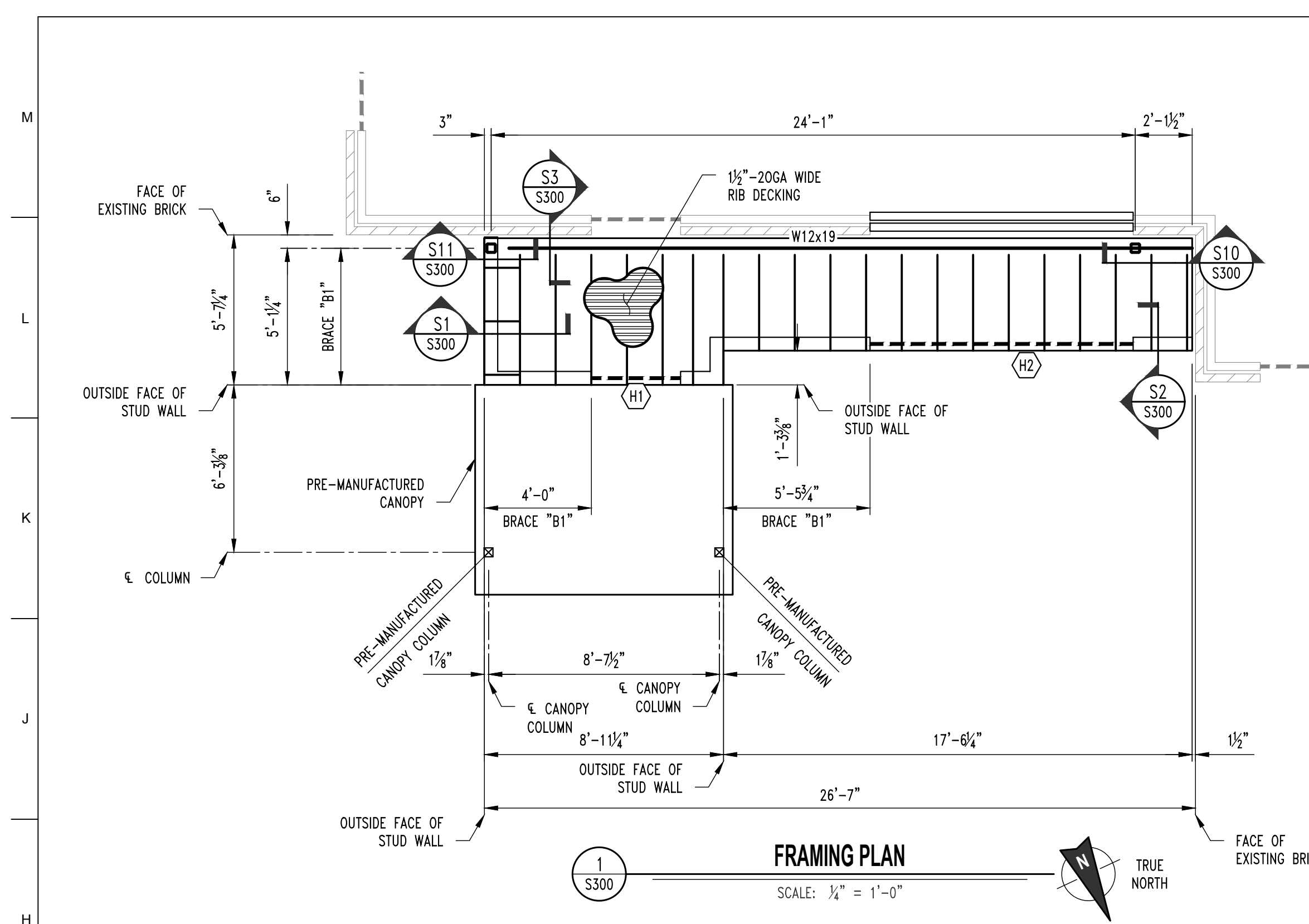
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DRAWN BY: TGC
CHECKED BY: JWV
DESIGNED BY: JWV

SHEET TITLE:
**FOUNDATION
PLAN & DETAILS**

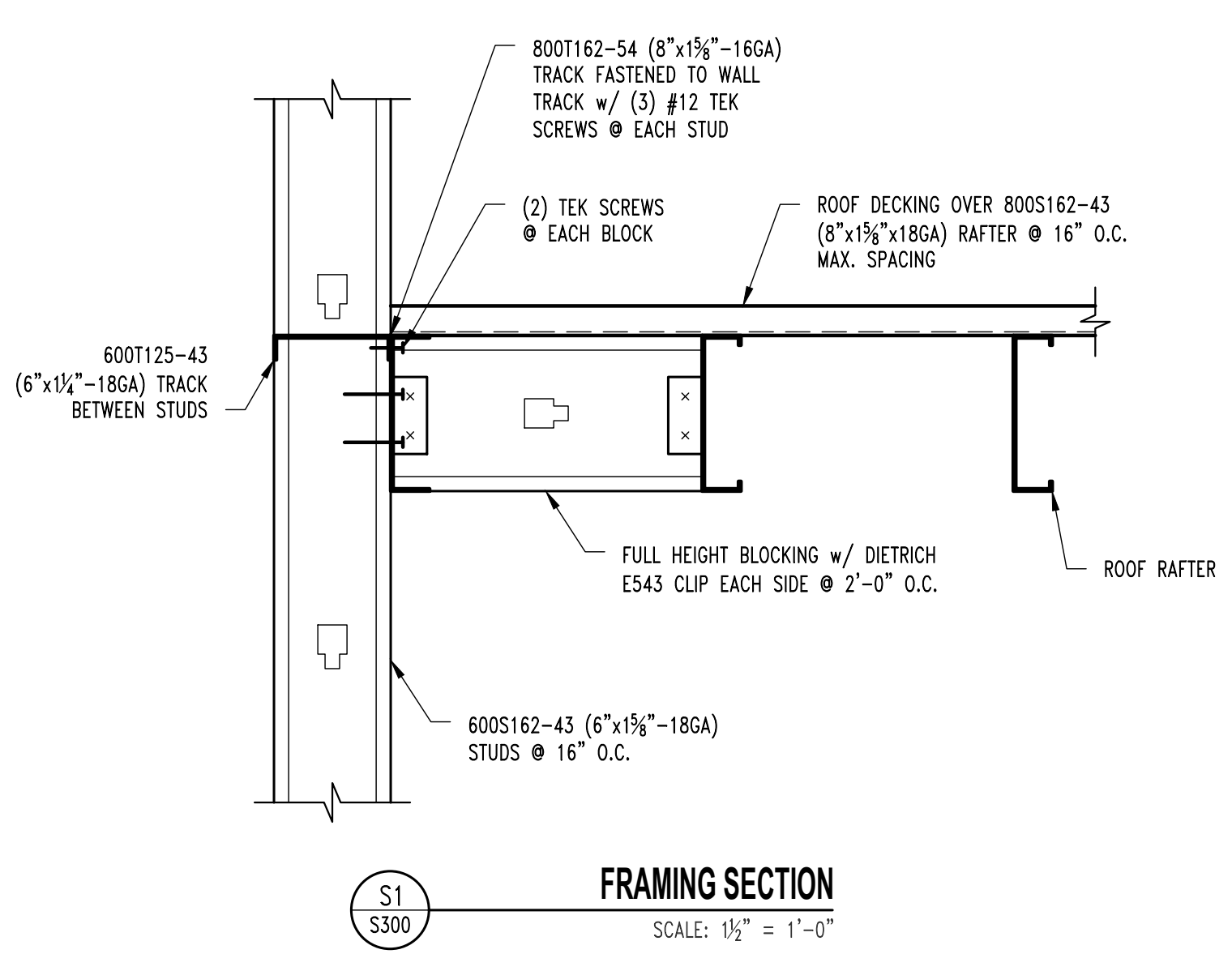
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S200

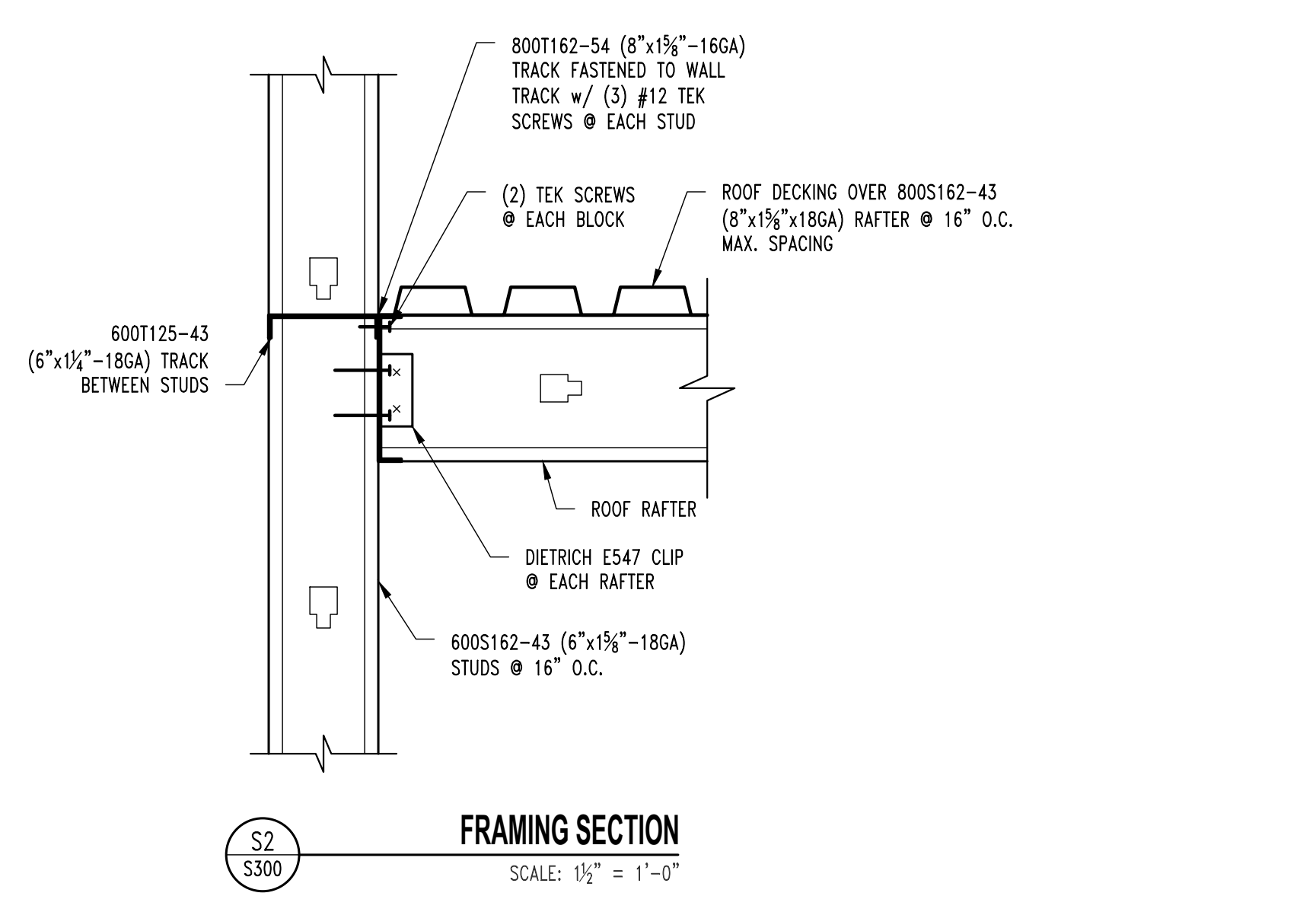
12/12/2025
11 OF 27 SHEETS



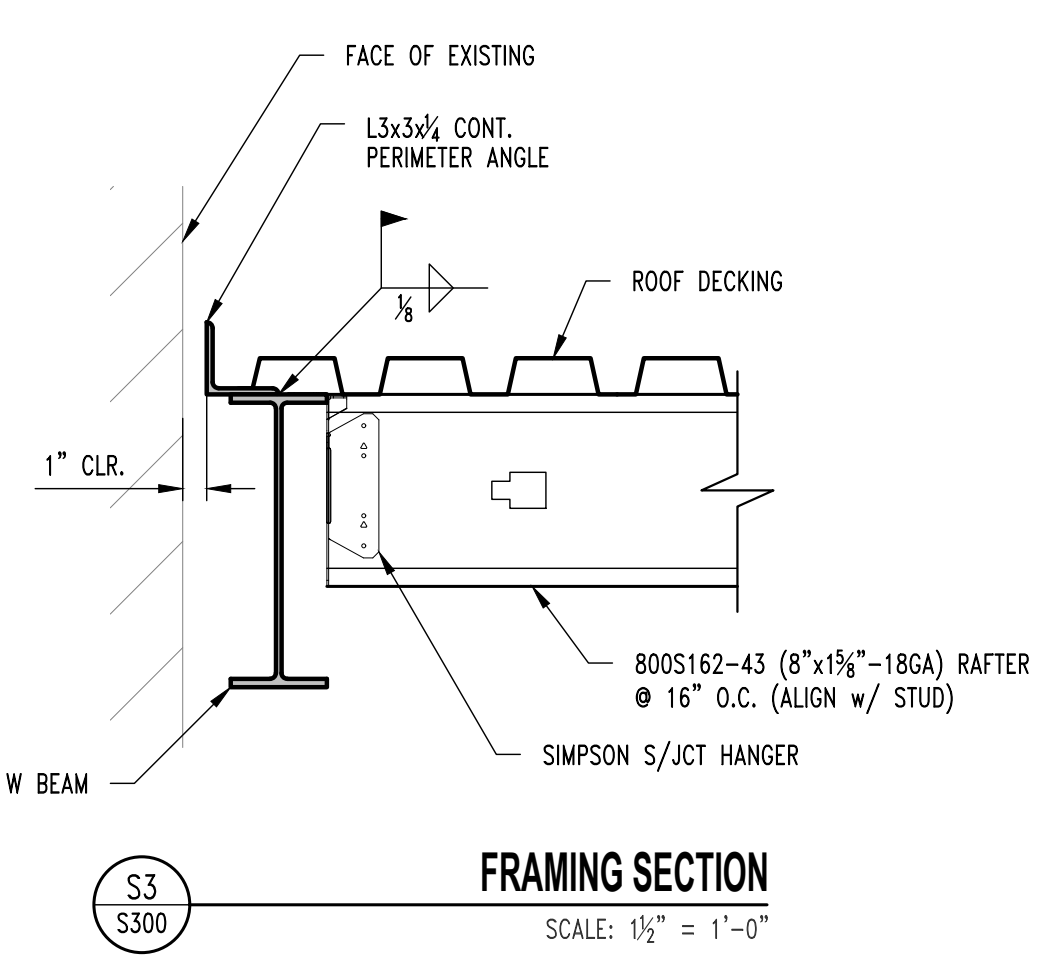
FRAMING PLAN
SCALE: 1/4" = 1'-0"



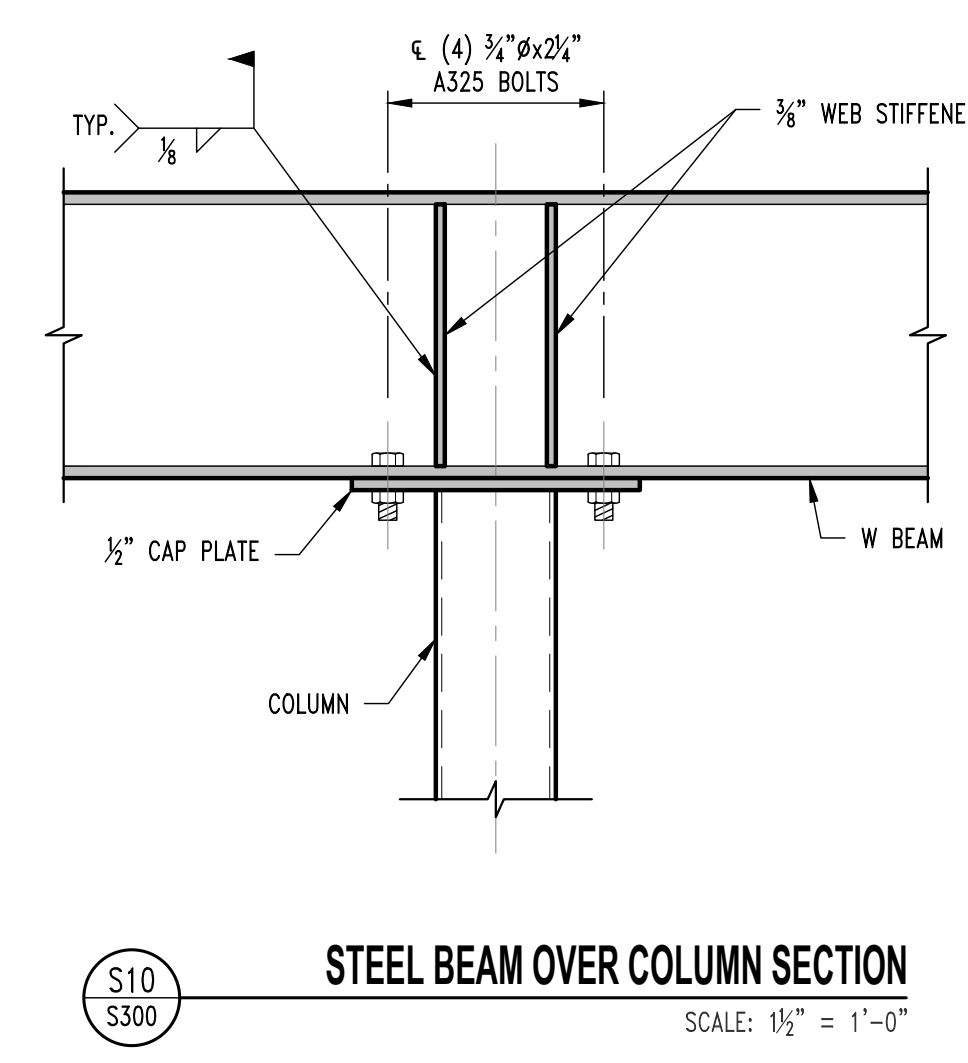
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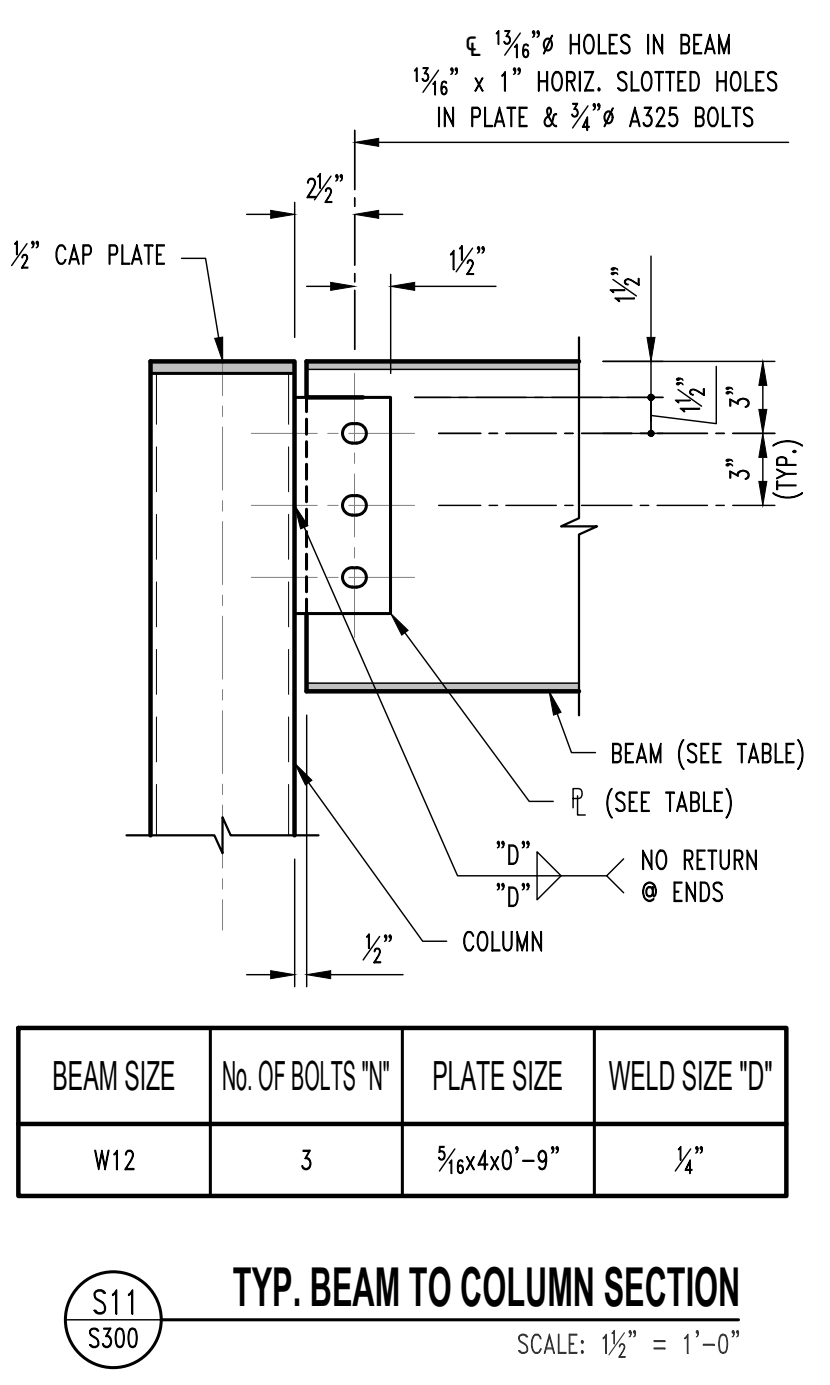
FRAMING SECTION
SCALE: 1/2" = 1'-0"



FRAMING SECTION
SCALE: 1/2" = 1'-0"

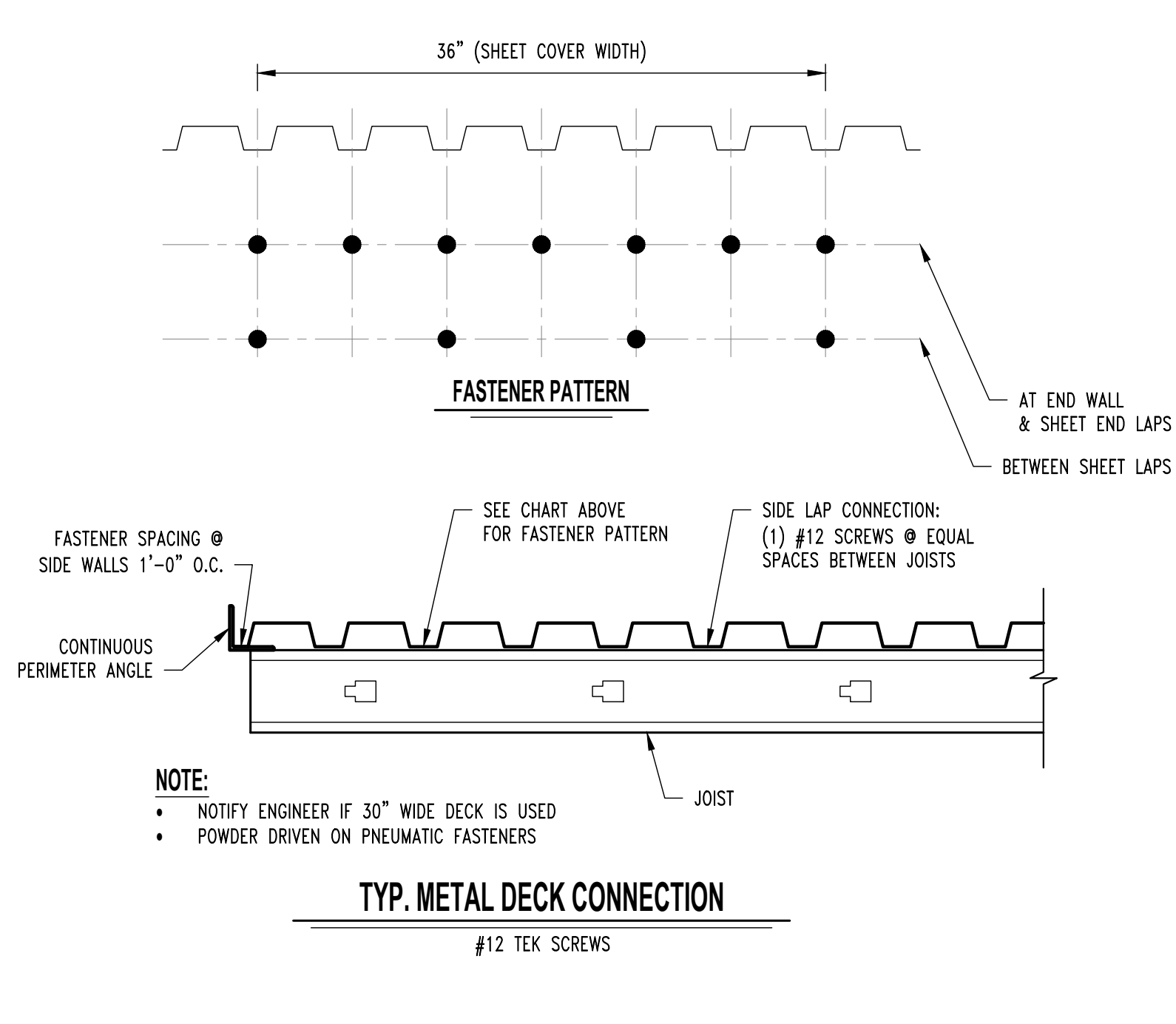


STEEL BEAM OVER COLUMN SECTION
SCALE: 1/2" = 1'-0"

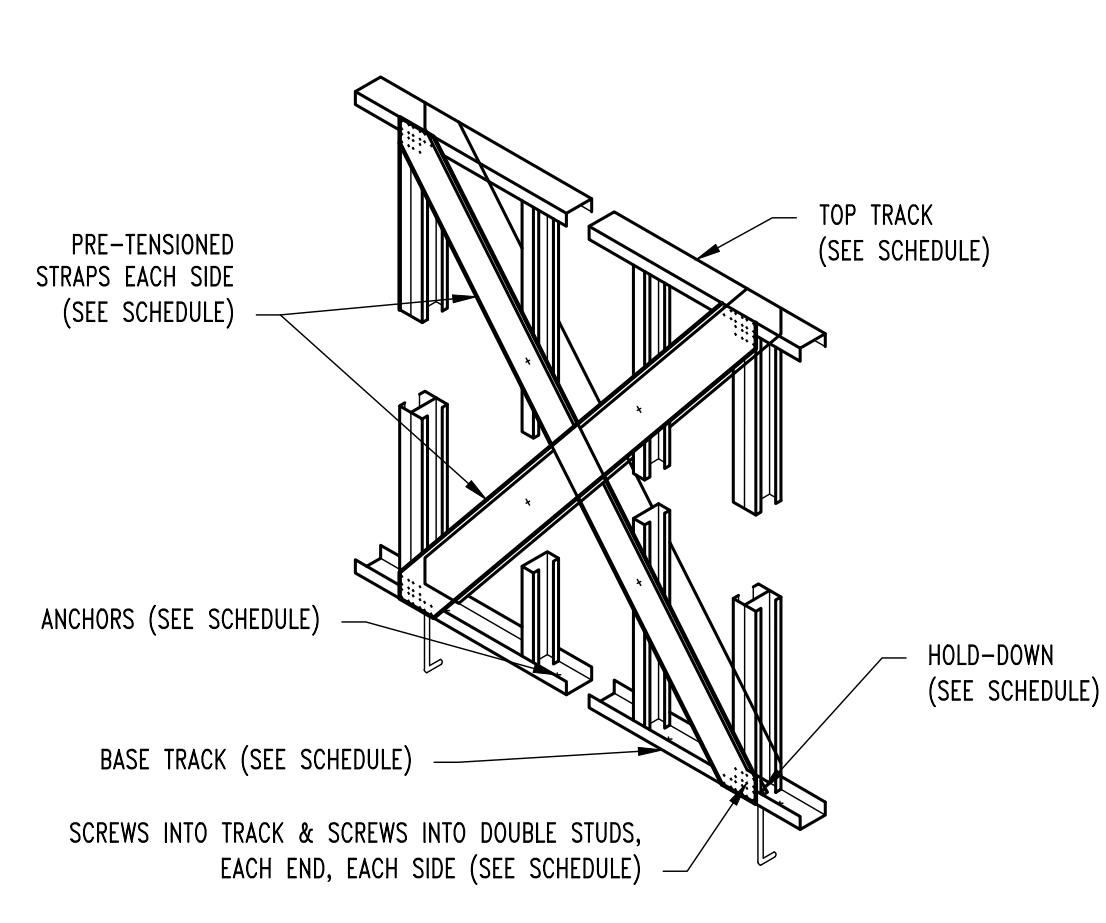


TYP. BEAM TO COLUMN SECTION
SCALE: 1/2" = 1'-0"

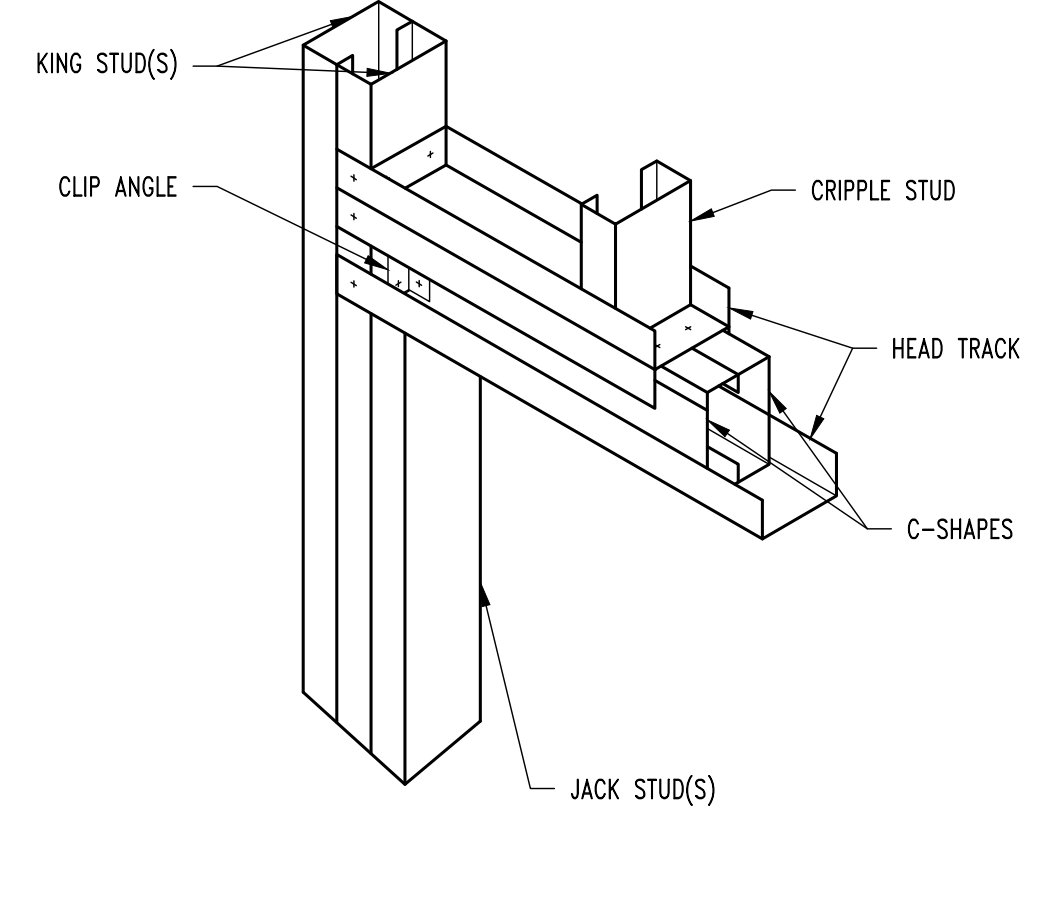
BEAM SIZE	No. OF BOLTS "N"	PLATE SIZE	WELD SIZE "D"
W12	3	3/8"x4'-0"-9"	1/4"



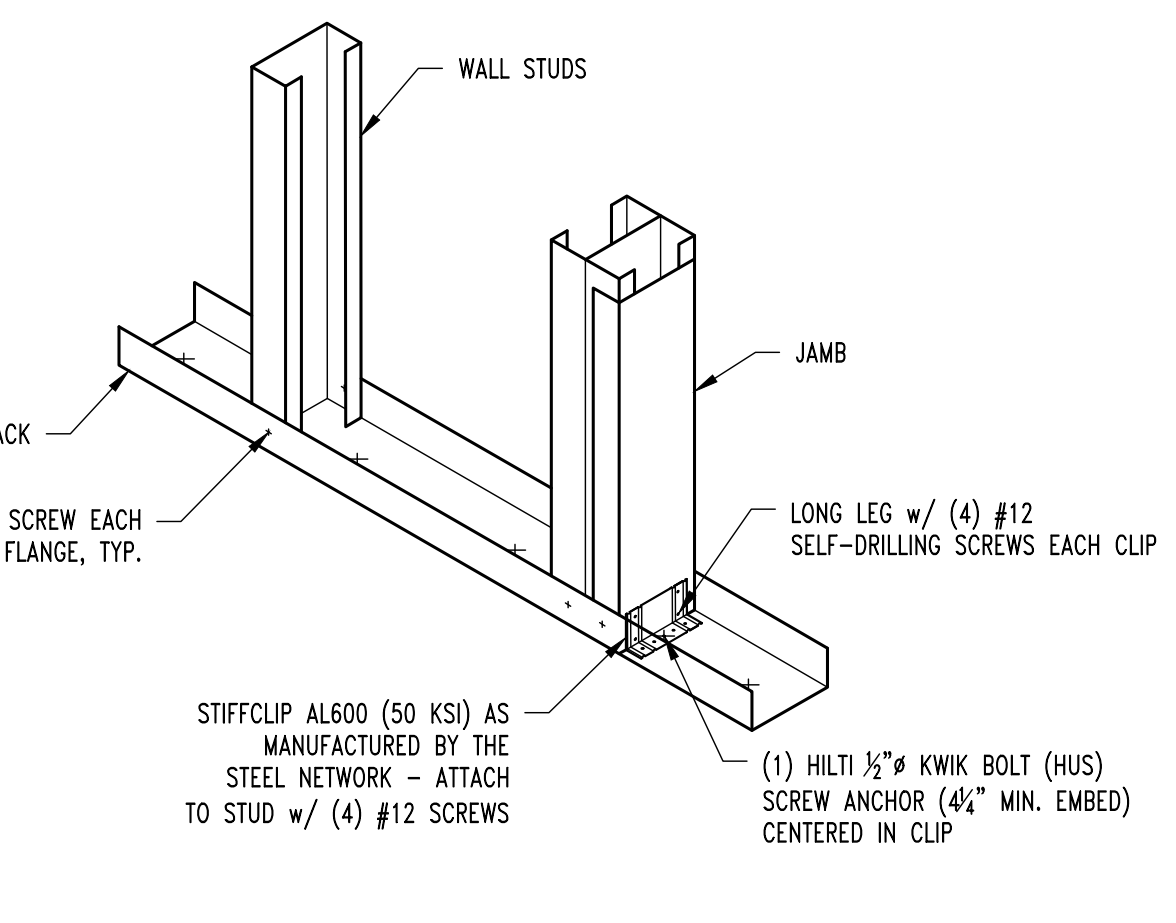
TYP. METAL DECK CONNECTION
#12 TEK SCREWS



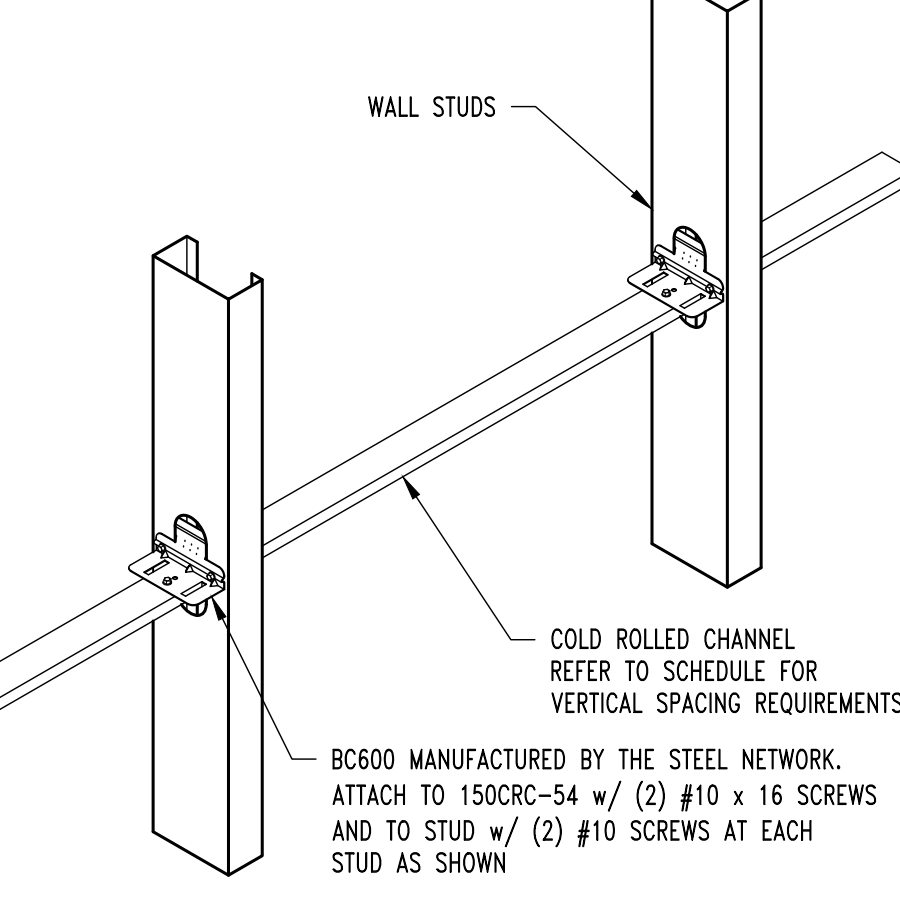
FULL HEIGHT BRACING DETAIL



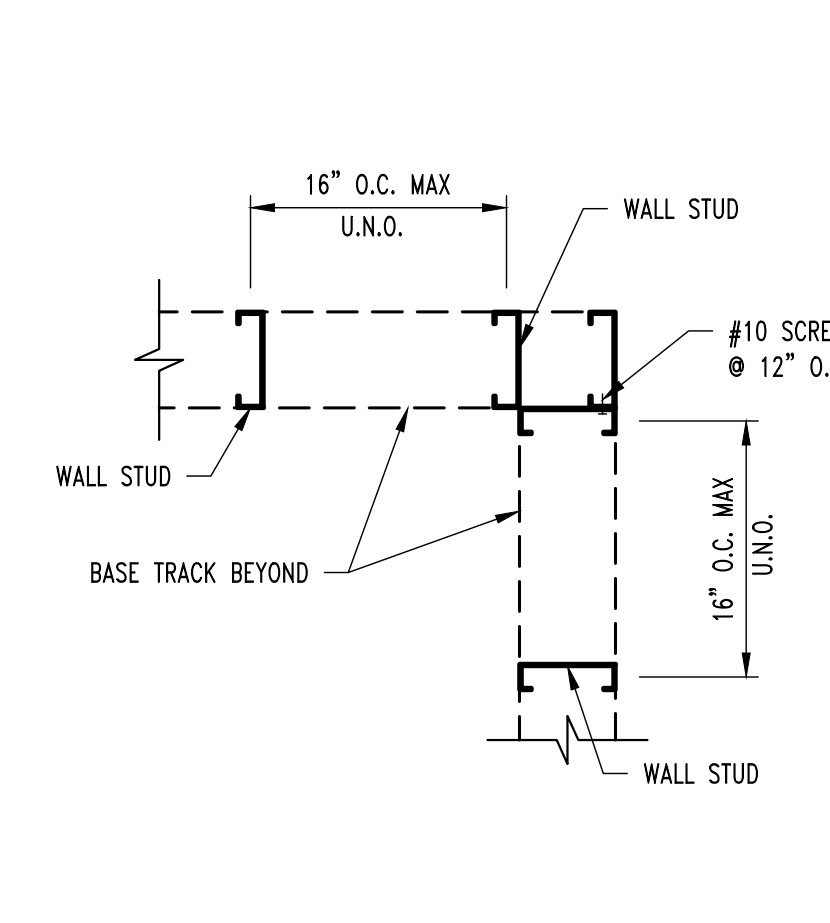
BOXED HEADER DETAIL



JAMB-TO-FLOOR ATTACHMENT DETAIL



WALL BRIDGING DETAIL



TYP. STUD WALL CORNER FRAMING SECTION

BRACE	STRAP	STRAP SCREWS	BACK-TO-BACK STUDS	BASE TO SLAB CONNECTION	HOLDDOWN	TOP & BOTTOM TRACK
"B1"	4" x 18 G.A. EACH SIDE	(4) #12 TEK SCREWS IN TRACK (4) #12 TEK SCREWS IN DOUBLE STUD	600S162-43	3/8" # EXPANSION ANCHORS w/ 2" EMBEDMENT w/ 6" EPOXY EMBEDMENT	HT14 DIETRICH HOLD-DOWN w/ 3/8" # THREADED ROD w/ 6" EPOXY EMBEDMENT	600T162-43

HEADER SCHEDULE						
HEADER LENGTH	HEADER	SILL/UNDER HEADER SILL	CRIPPLE/JACK	JAMB/KING	JAMB/KING ATTACHMENT TO STRUCTURE	JAMB TO SLAB CONNECTION
"H1"	800S162-43 BOXED HEADER (6"x1 5/8"x18GA)	SINGLE 600T150-43 (6"x1 1/2"x18GA)	SINGLE 600S162-43 (6"x1 5/8"x18GA)	600S162-43 BACK TO BACK (6"x1 5/8"x18GA)	DIETRICH E97S W 4-#12 SCREWS EACH LEG	DIETRICH D88S W 3-#12 SCREWS & 1/2" DIAMETER EXPANSION ANCHOR W/ 3" EMBEDMENT
"H2"	800S162-54 BOXED HEADER (6"x1 5/8"x18GA)	SINGLE 600T150-54 (6"x1 1/2"x18GA)	SINGLE 600S162-54 (6"x1 5/8"x18GA)	600S162-54 BACK TO BACK (6"x1 5/8"x18GA)	DIETRICH E97S W 4-#12 SCREWS EACH LEG	DIETRICH D88S W 3-#12 SCREWS & 1/2" DIAMETER EXPANSION ANCHOR W/ 3" EMBEDMENT

NOTE:
FOR OPENINGS AT BASE, PROVIDE ADDITIONAL CLOSURE TRACK 1'-0" LONG FOR CLIP ATTACHMENT AT FACE OF JAMB OPPOSITE OPENING



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PWArchitects, Inc.
2120 Forum Blvd., Ste. 101
Columbia, Missouri 65203
PWArchitects.com | 573.449.2683
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Missouri State Certificate of Authority No. 000244

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(573) 447-0292
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REPLACE ROOF &
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MSHP INTEROPERABILITY
2413 EAST MCCARTY ST.
JEFFERSON CITY, MO

PROJECT # R2508-01
SITE # 5300
ASSET # 57000

REVISION:
DATE:
REVISION:
DATE:
REVISION:
DATE:
ISSUE DATE: 12/12/2025

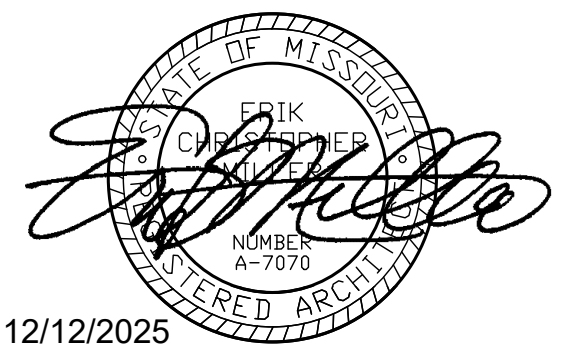
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DRAWN BY: TGC
CHECKED BY: JWV
DESIGNED BY: JWV

SHEET TITLE:
**FRAMING
PLAN & DETAILS**

SHEET NUMBER:

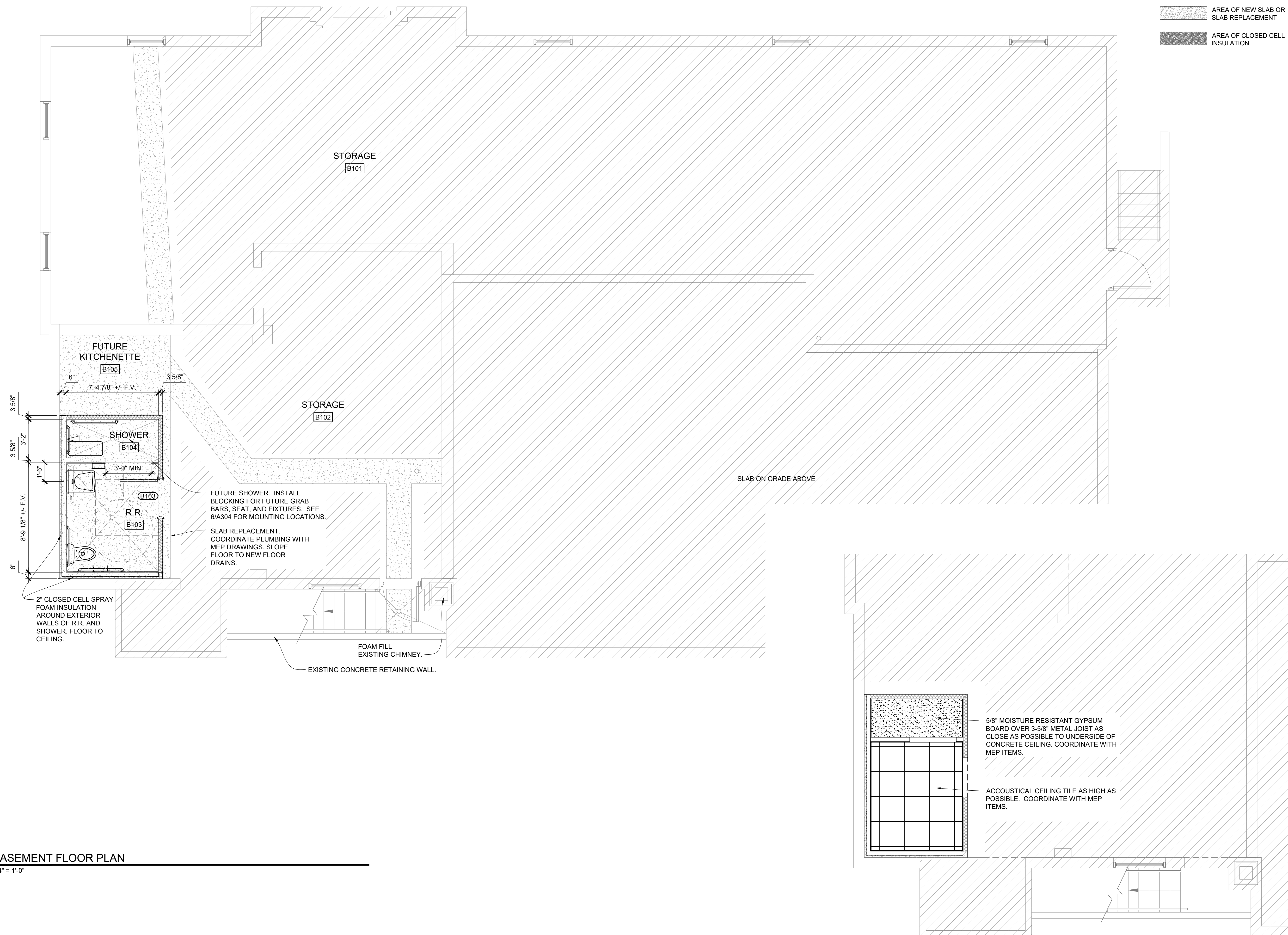
S300

12/12/2025
12 OF 27 SHEETS



LINETYPE AND HATCH DESIGNATIONS

- NEW EXTERIOR WALL
- AREA OF NO WORK
- AREA OF NEW SLAB OR SLAB REPLACEMENT
- AREA OF CLOSED CELL INSULATION



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MSHP INTEROPERABILITY
2413 EAST MCCARTY ST.
JEFFERSON CITY, MO

PROJECT # R2508-01
SITE # 6027
ASSET # 8136027002

REVISION: _____
DATE: _____
REVISION: _____
DATE: _____
REVISION: _____
DATE: _____
ISSUE DATE: 12/12/2025

CAD DWG FILE: _____
DRAWN BY: SI
CHECKED BY: SI
DESIGNED BY: SI

SHEET TITLE:
**BASEMENT FLOOR
PLAN**

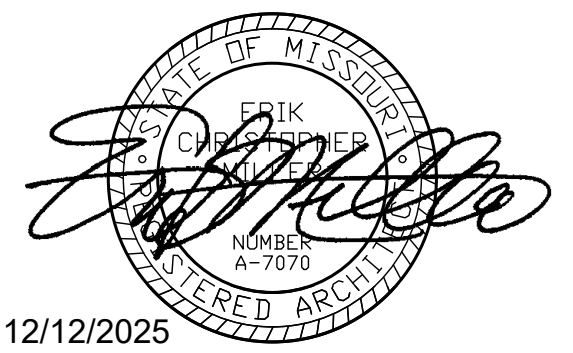
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A-101

12/12/2025
13 OF 27 SHEETS

1 BASEMENT FLOOR PLAN
A-101 1/4" = 1'-0"

2 BASEMENT REFLECTED CEILING PLAN
A-101 1/4" = 1'-0"



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CAD DWG FILE: _____
DRAWN BY: SI
CHECKED BY: SI
DESIGNED BY: SI

SHEET TITLE:
**GROUND LEVEL
FLOOR PLAN**

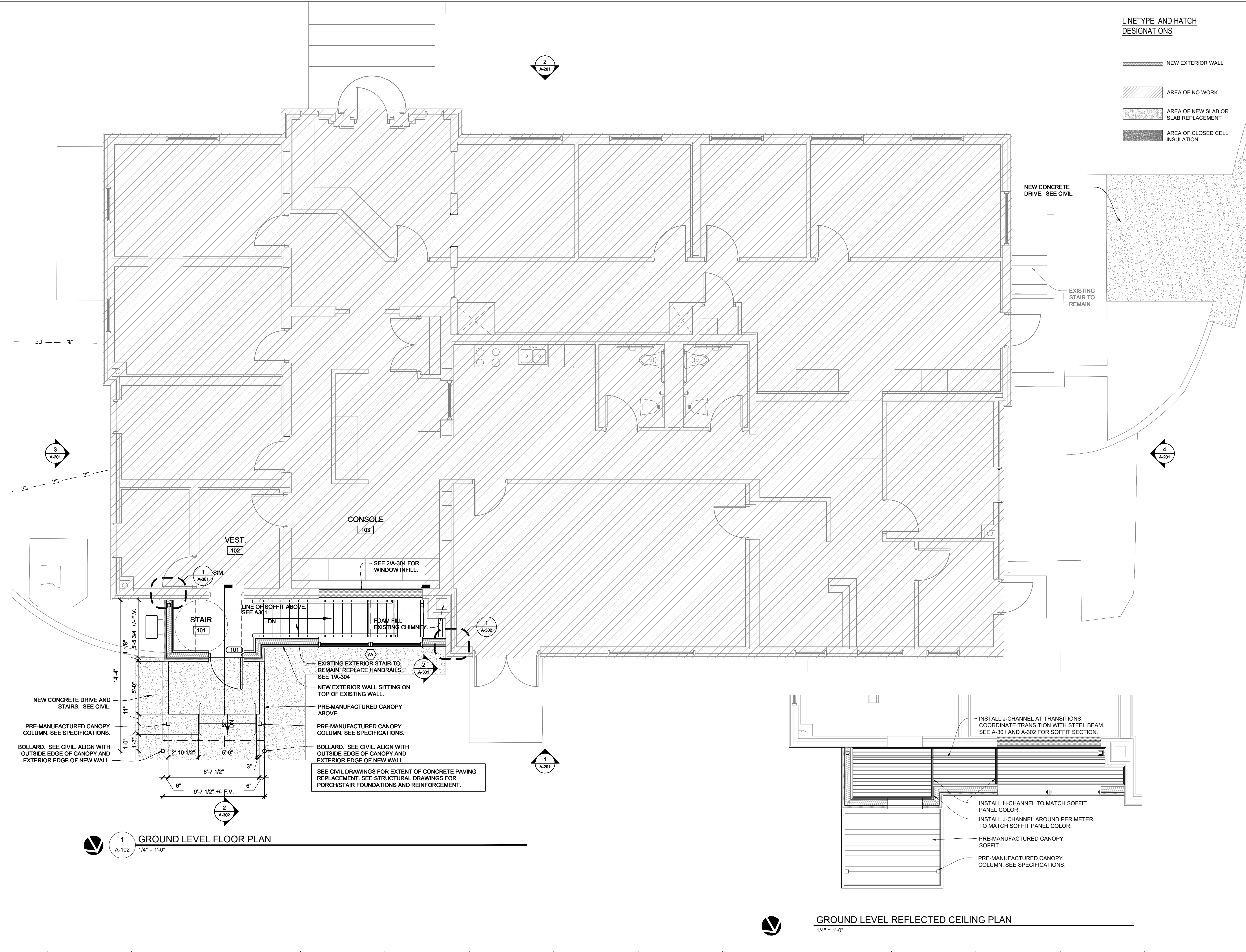
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A-102

12/12/2025
14 OF 27 SHEETS

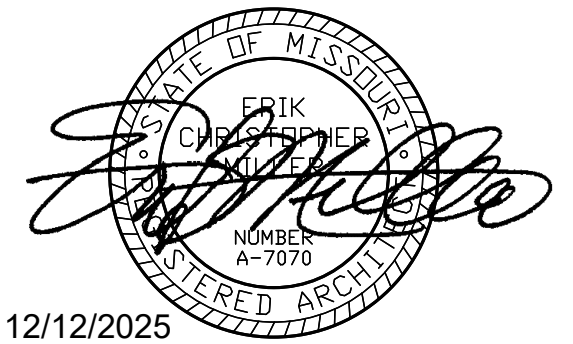
LINETYPE AND HATCH
DESIGNATIONS

- NEW EXTERIOR WALL
- AREA OF NO WORK
- AREA OF NEW SLAB OR
SLAB REPLACEMENT
- AREA OF CLOSED CELL
INSULATION

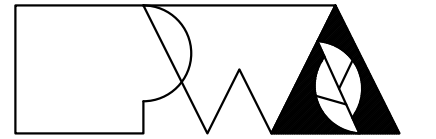


1 GROUND LEVEL FLOOR PLAN
A-102 1/4" = 1'-0"

GROUND LEVEL REFLECTED CEILING PLAN
1/4" = 1'-0"



12/12/2025



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PWArchitects, Inc.
2120 Forum Blvd., Ste. 101
Columbia, Missouri 65203
PWArchitects.com | 573.442.2683
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2413 EAST MCCARTY ST.
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SITE # 6027
ASSET # 8136027002

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REVISION: _____
DATE: _____
ISSUE DATE: 12/12/2025

CAD DWG FILE: _____
DRAWN BY: SI
CHECKED BY: SI
DESIGNED BY: SI

SHEET TITLE:
**ROOF PLAN AND
ROOFING DETAILS**

SHEET NUMBER:

A-103

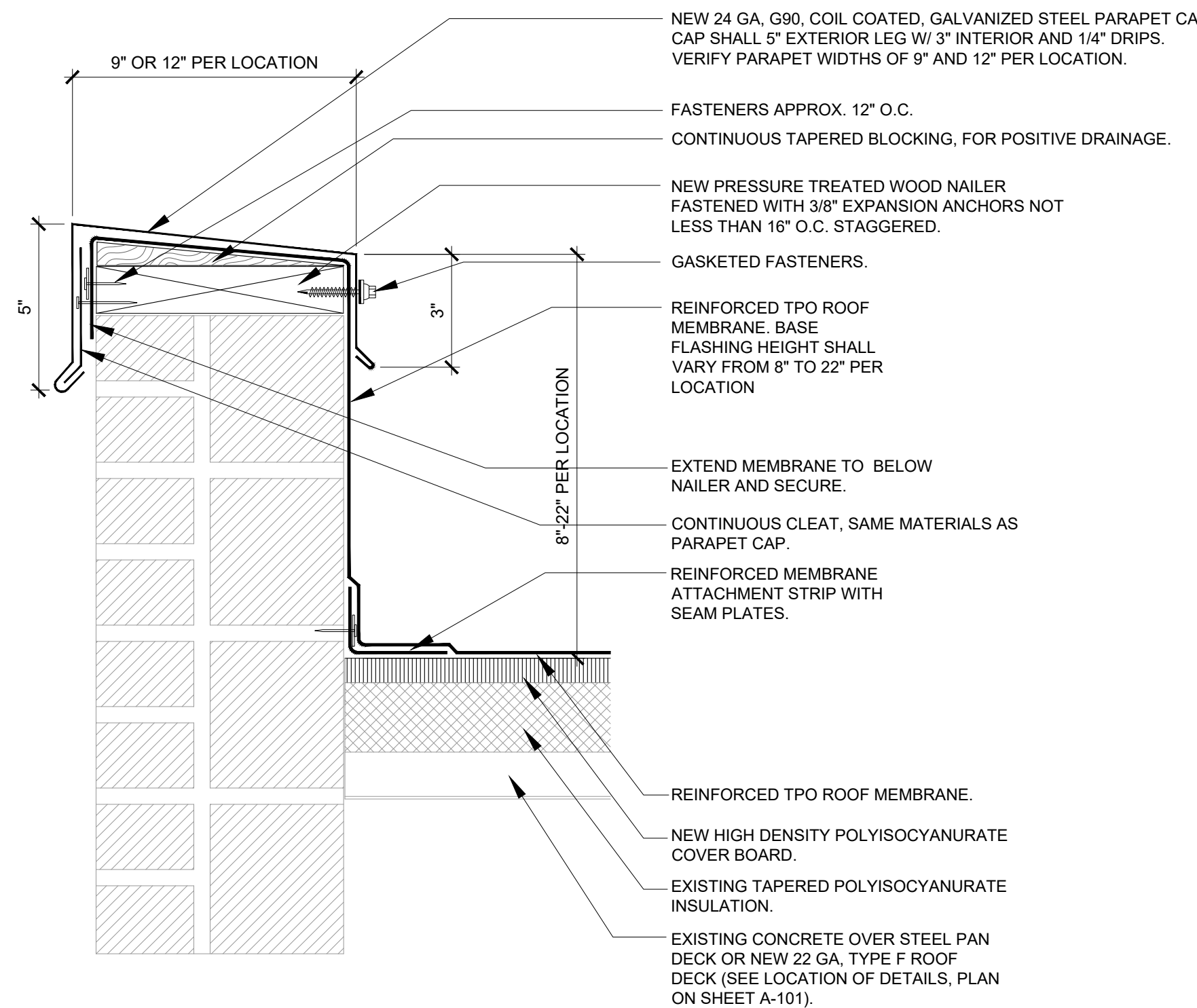
12/12/2025
15 OF 27 SHEETS

DEMOLITION NOTES: ROOF

1. FIELD VERIFY ALL DIMENSIONS SHOWN ON DRAWINGS AND REPORT ANY DISCREPANCIES TO THE ARCHITECT.
2. REMOVE EXISTING, ROOF MEMBRANE, COVER BOARD, MEMBRANE FLASHINGS, AND SHEET METAL FLASHINGS. LEGALLY DISPOSE OF ALL MATERIALS.
3. PROTECT BUILDING ENTRANCES PER SPECIFICATIONS.
4. THE CONTRACTOR SHALL HAVE THE SOLE RESPONSIBILITY OF PRE-BID SITE INSPECTION TO MAKE ONE'S OWN DETERMINATION OF THE EXTENT OF WORK AND EXISTING CONDITIONS.

INSTALLATION NOTES: ROOF

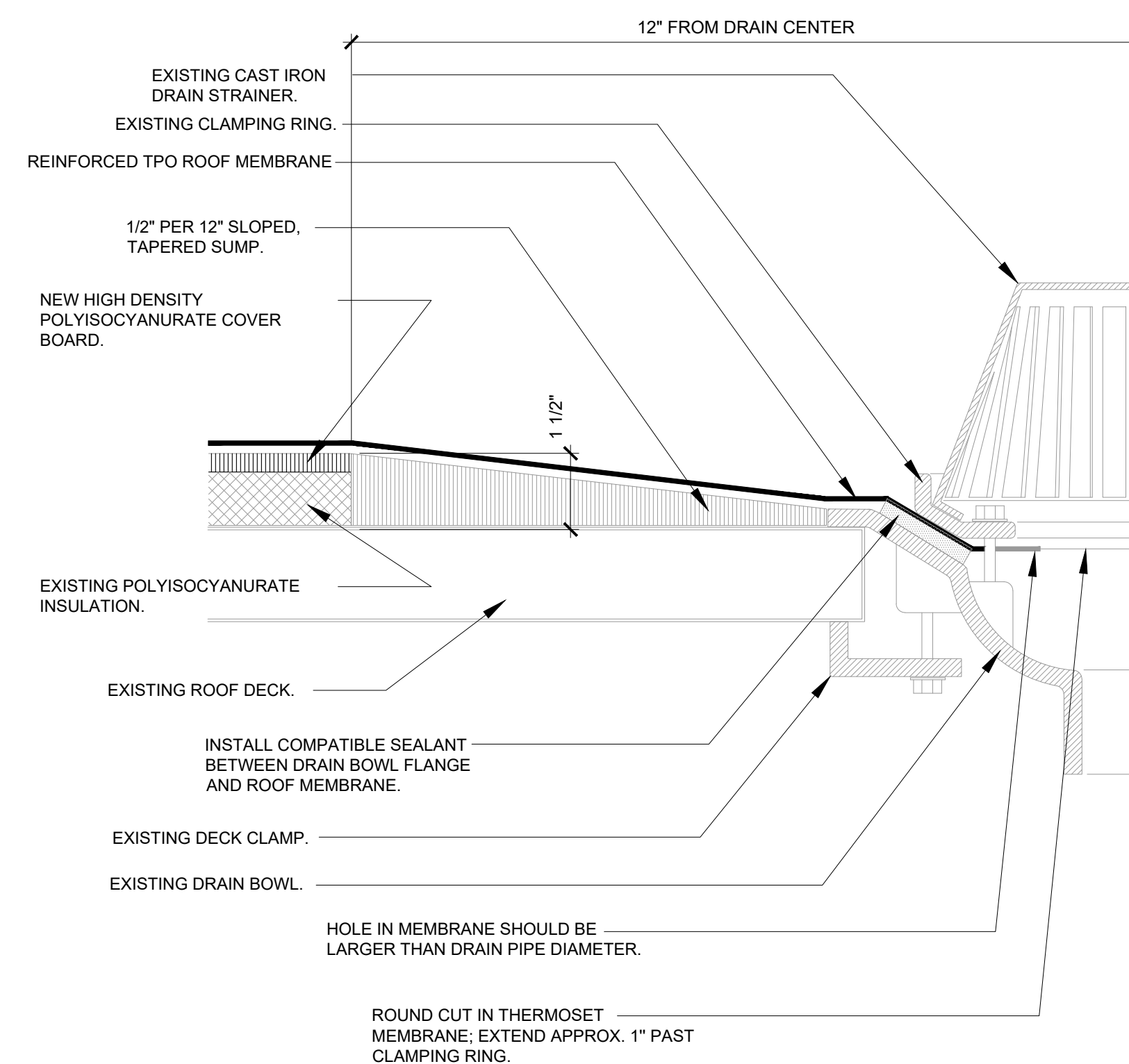
5. INSTALL NEW REINFORCED TPO ROOF MEMBRANE ROOF SYSTEM, NEW COVER BOARD, CRICKETS SHALL BE 1/2" PER 12 SLOPE, BASE FLASHINGS, WOOD BLOCKING AND SHEET METAL FLASHINGS.
6. INSTALL NEW CANOPY SYSTEM. SEE SPECIFICATIONS.
7. INSTALL NEW SCUPPERS W/ SUMP AND ROOF DRAINAGE SYSTEM W/ DOWNSPOUTS. DOWNSPOUTS SHALL MATCH EXISTING LOCATIONS AND TRANSITION INTO EXISTING CAST IRON COLLECTION SYSTEM.
8. INSTALL NEW 24 GA, G90, COIL COATED, GALVANIZED STEEL OVERFLOW SCUPPER. SCUPPER OPENING SHALL BE 10"x10", CUT THROUGH EXISTING MASONARY WALL APPROXIMATELY 1" ABOVE NEW ROOF SURFACE, LOCATED AT THE LOWEST POINT OF TAPERED INSULATION (FIELD VERIFY).
9. INSTALL NEW ROOF EXPANSION JOINT W/ 24 GA. G90, COIL COATED STEEL CAP SEPARATING DIFFERING ROOF DECK SECTIONS.
10. CONTRACTOR WILL FURNISH AND INSTALL ALL ROOFING, FLASHING, AND MATERIALS REQUIRED FOR A COMPLETE WATERPROOF INSTALLATION, WHETHER OR NOT SUCH MATERIALS AND DETAILS OF INSTALLATION HAVE BEEN SPECIFICALLY MENTIONED OR SHOWN. CONFORM TO MANUFACTURER'S APPROVED DETAILS OR OTHER CONSTRUCTION AUTHORITY SUCH AS THE NATIONAL ROOFING CONTRACTOR'S ASSOCIATION (NRCA) ROOFING AND WATERPROOFING MANUAL, FIFTH EDITION, VOLUME 2, "LOW-SLOPE ROOFING".



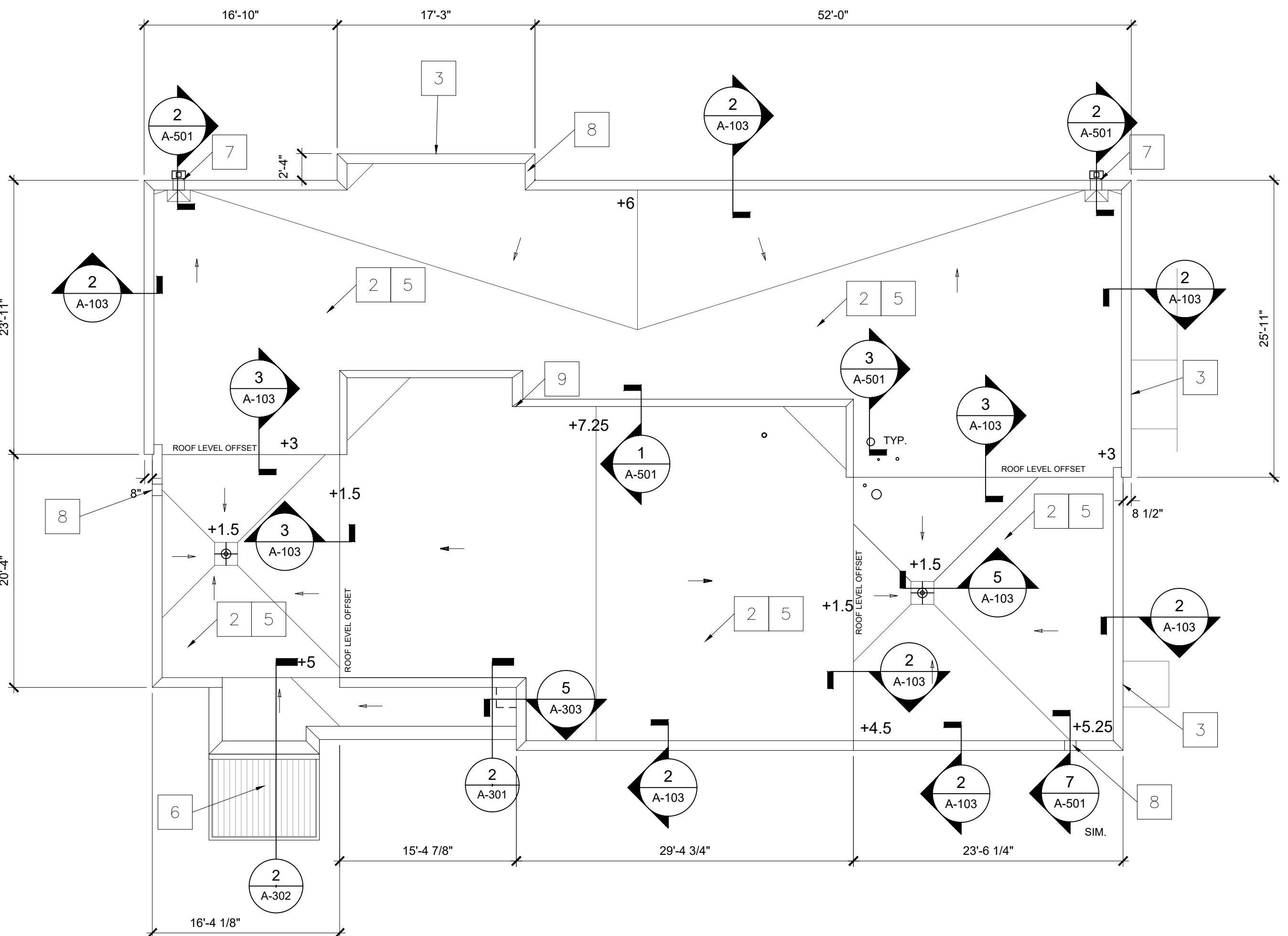
2 PARAPET WALL AND COPING METAL
A-103 NO SCALE

ROOF SYMBOLS

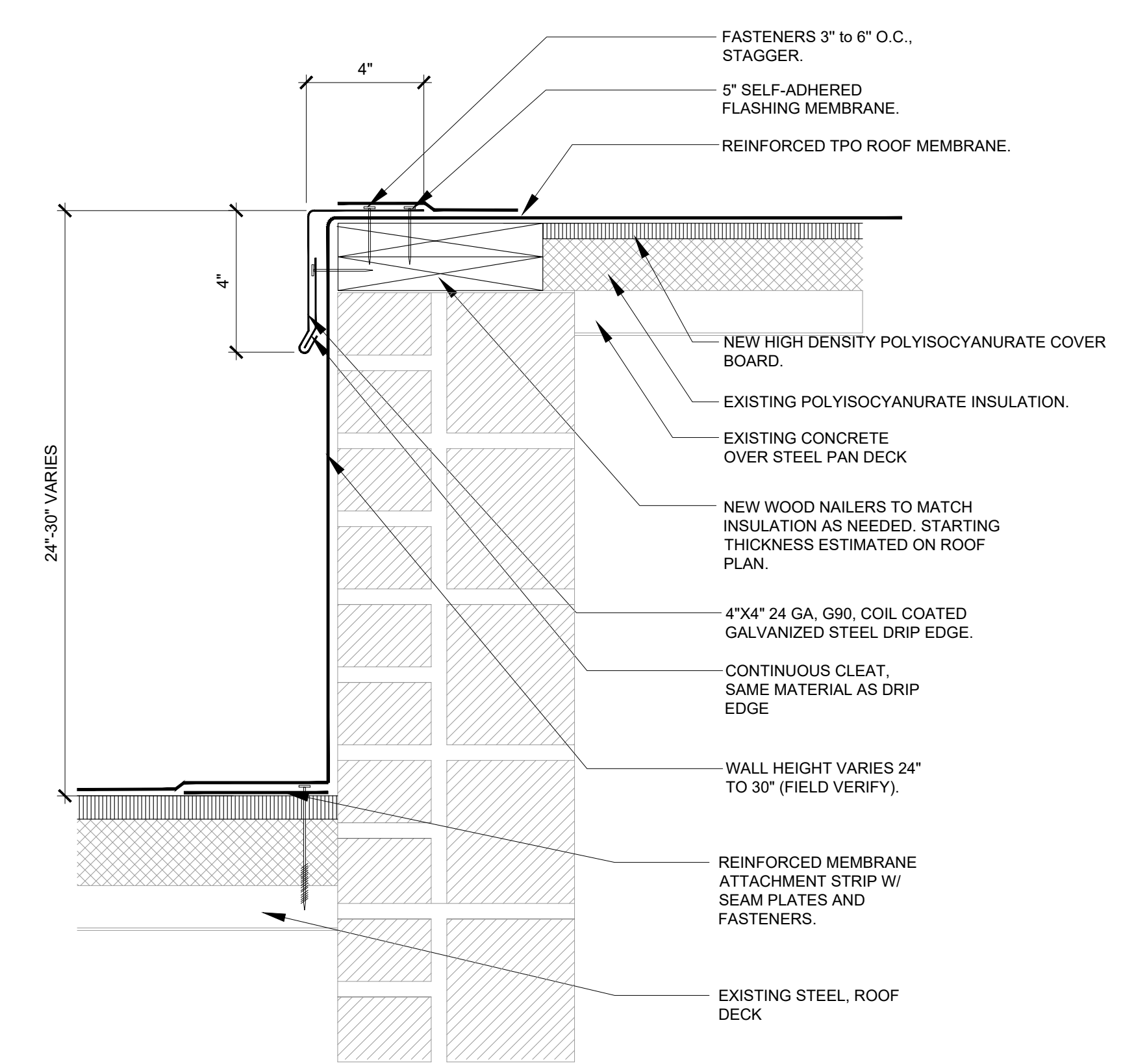
- PARAPET WALL
- ROOF DRAIN W/ SUMP
- ROOF SLOPE
- OVERFLOW SCUPPER
- SCUPPER W/ COLLECTION BOX (DOWNSPOUT)
- PIPE PENETRATION
- +5.25 APPROXIMATE INSULATION THICKNESS



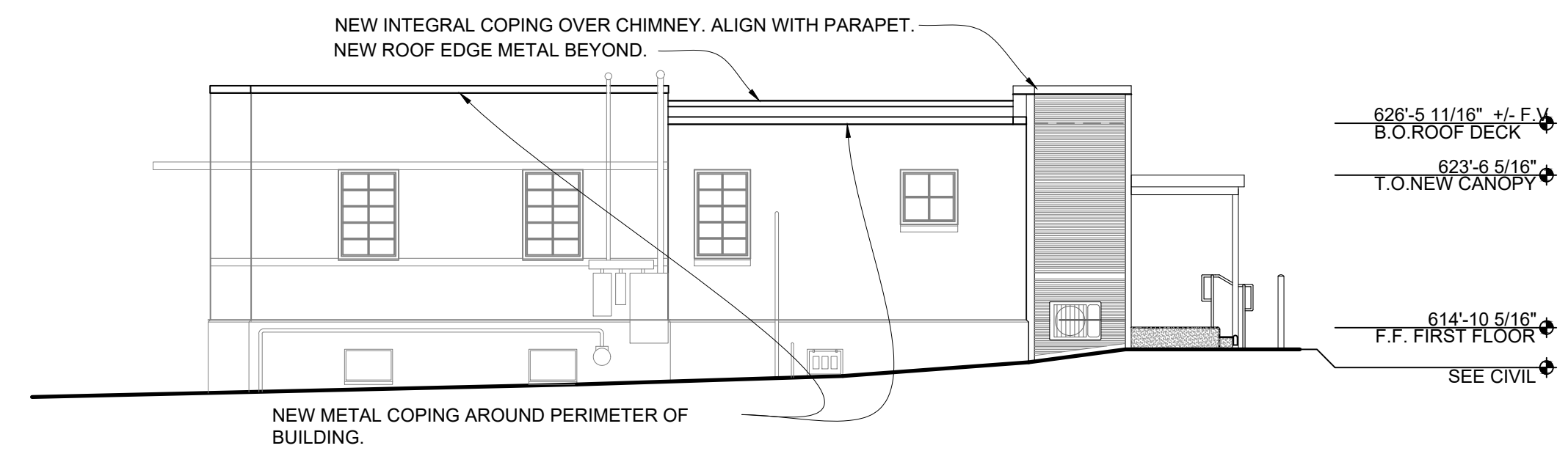
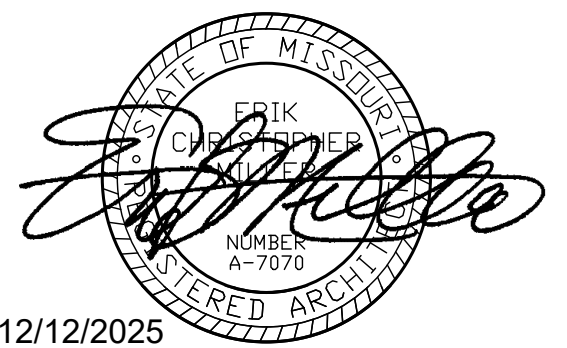
5 ROOF DRAIN
A-103 NO SCALE



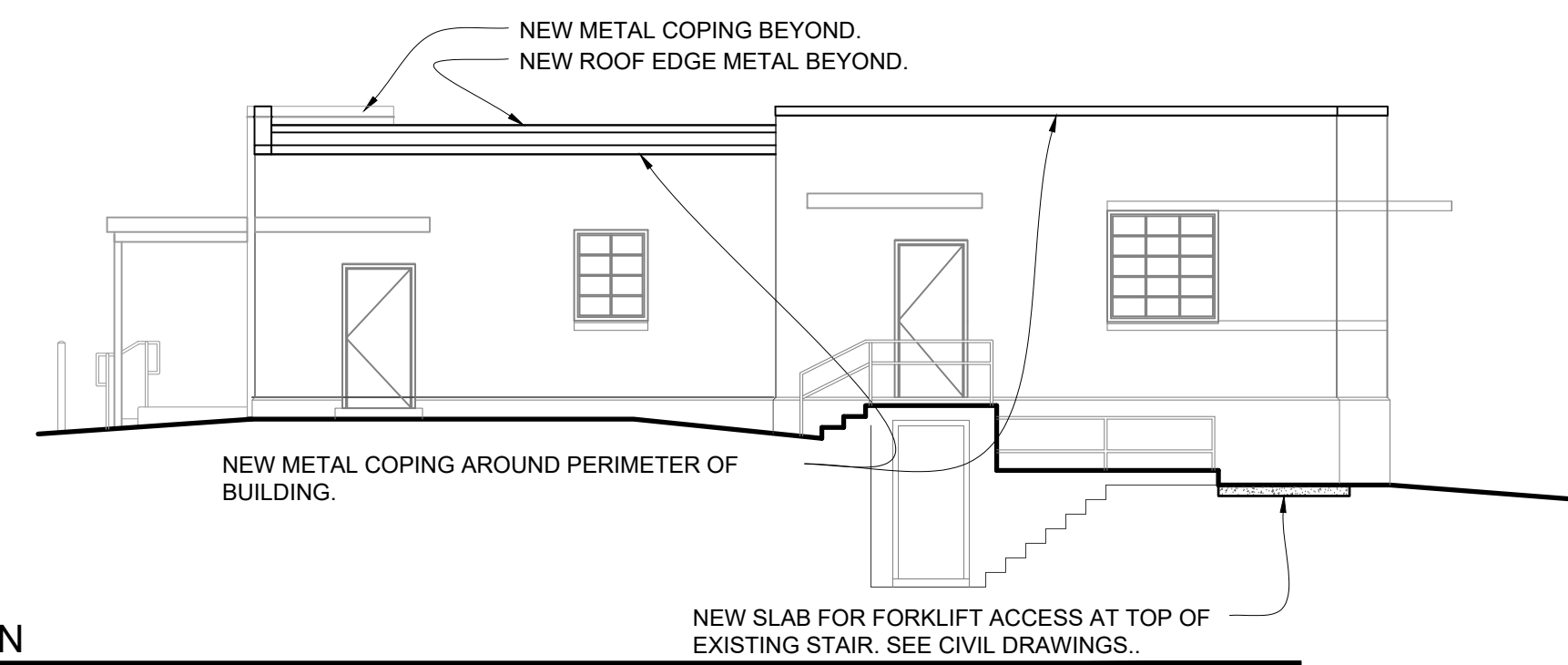
1 ROOF PLAN
A-103 1/8"=1'



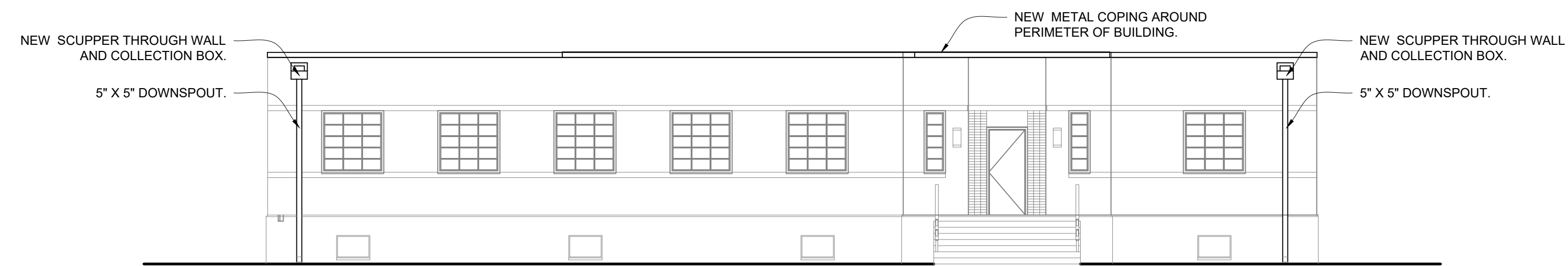
3 ROOF EDGE FOR DRAINAGE
A-103 NO SCALE



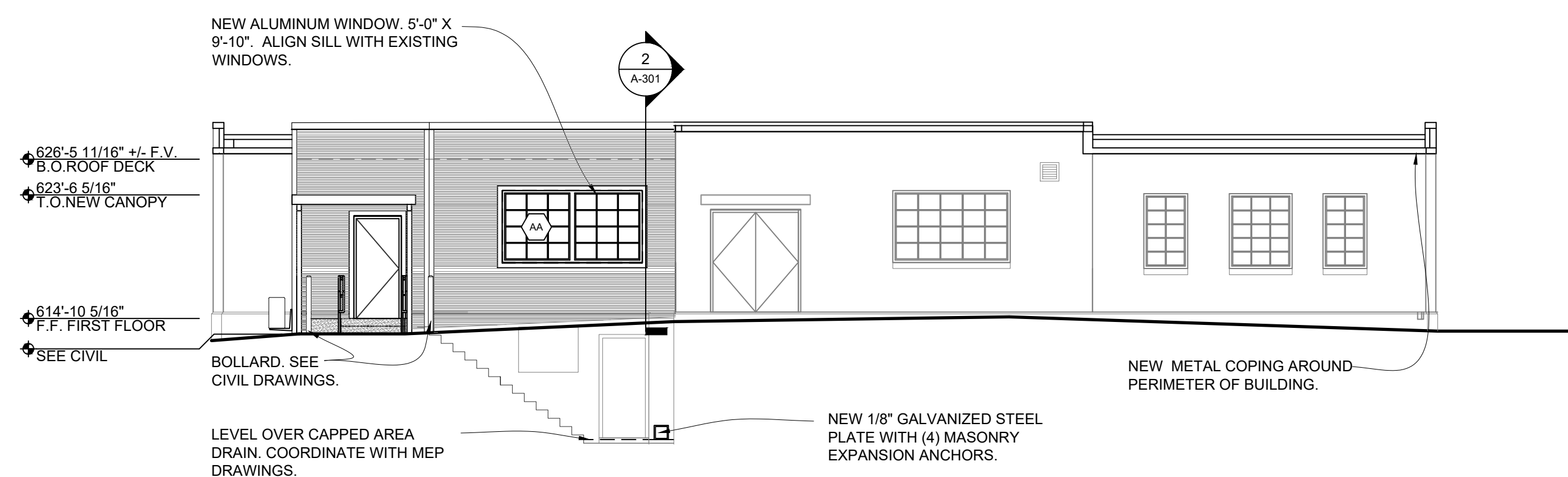
3 EAST ELEVATION
A-201 1/8" = 1'-0"



4 WEST ELEVATION
A-201 1/8" = 1'-0"



2 SOUTH ELEVATION
A-201 1/8" = 1'-0"



1 NORTH ELEVATION
A-201 1/8" = 1'-0"

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JEFFERSON CITY, MO

PROJECT # R2508-01
SITE # 6027
ASSET # 8136027002

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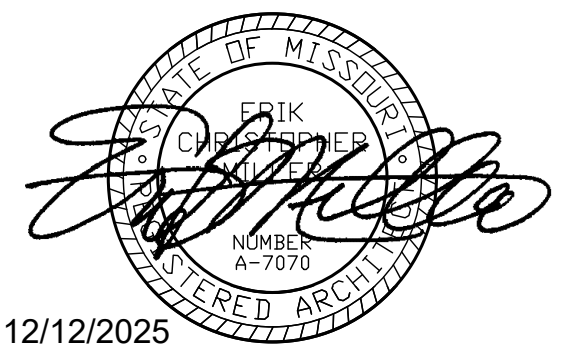
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DRAWN BY: SI
CHECKED BY: SI
DESIGNED BY: SI

SHEET TITLE:
EXTERIOR
ELEVATIONS

SHEET NUMBER:

A-201

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16 OF 27 SHEETS



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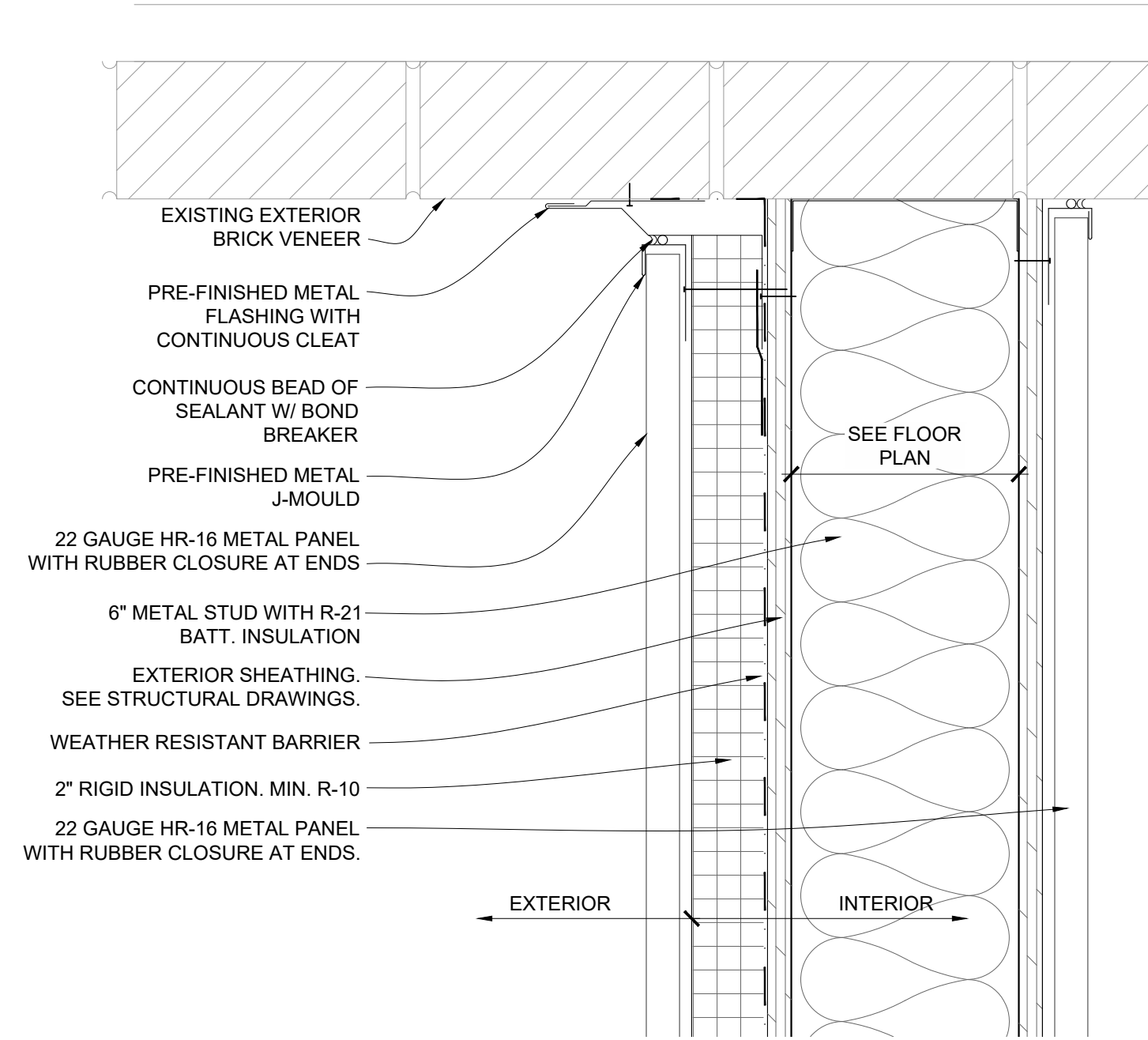
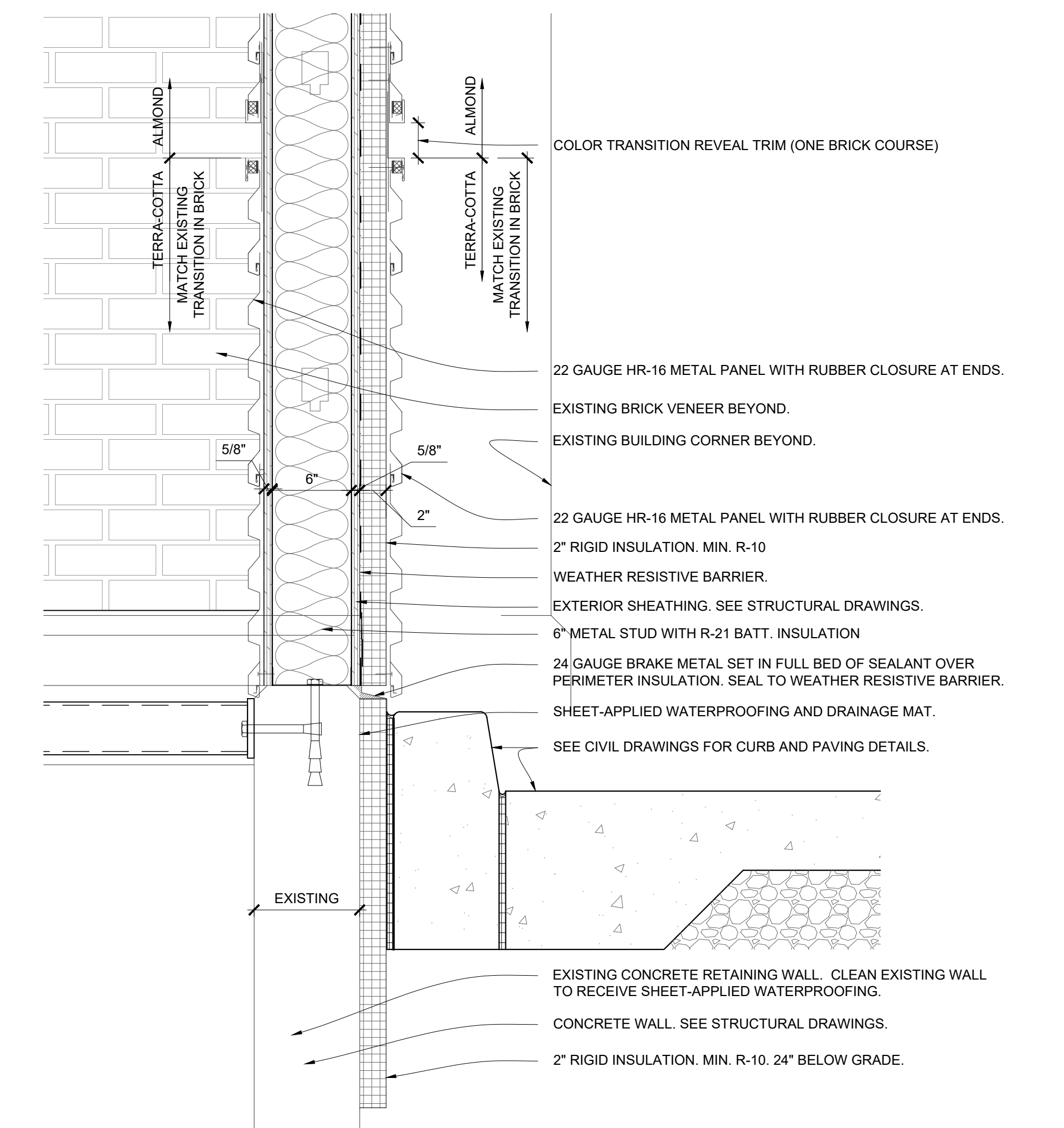
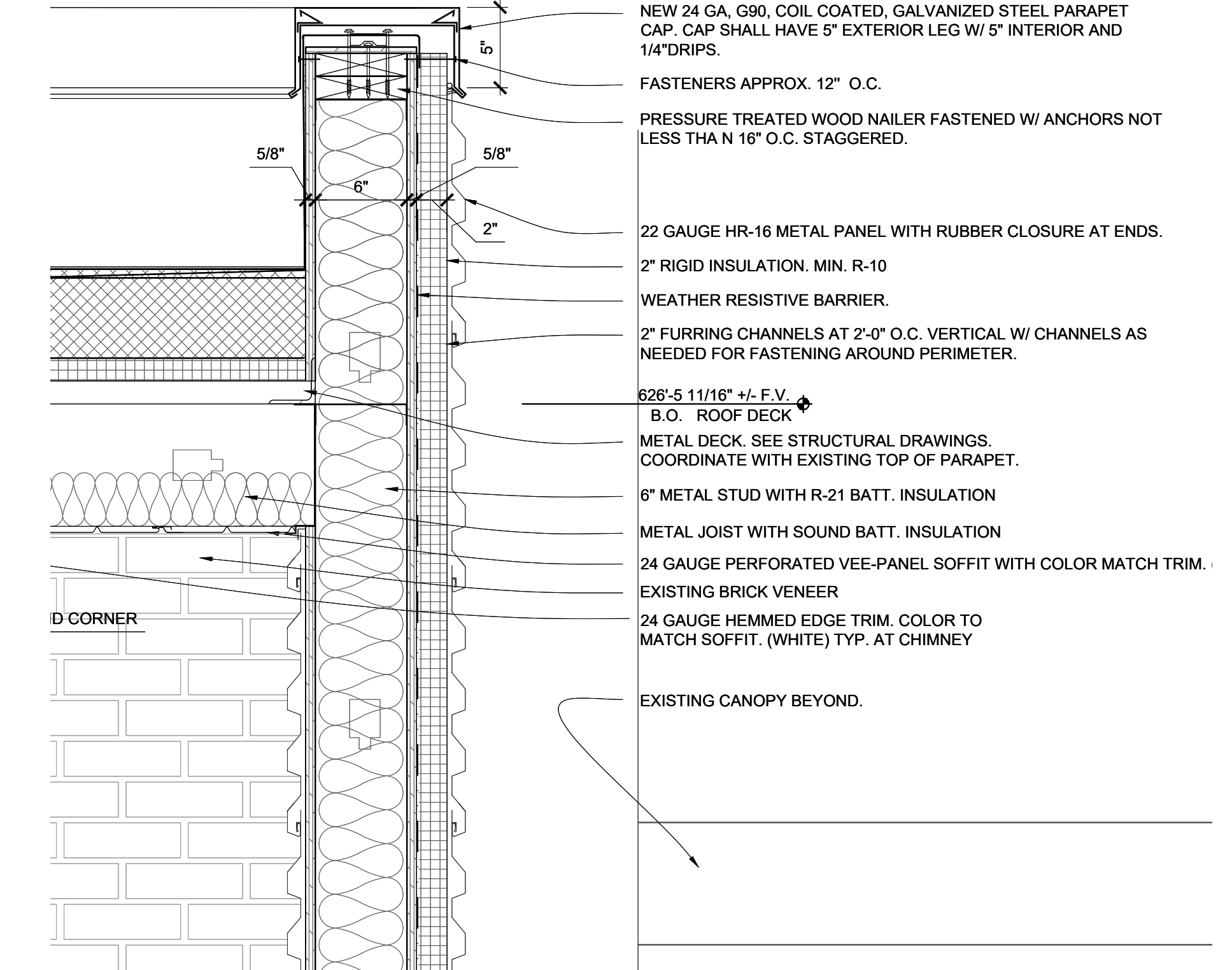
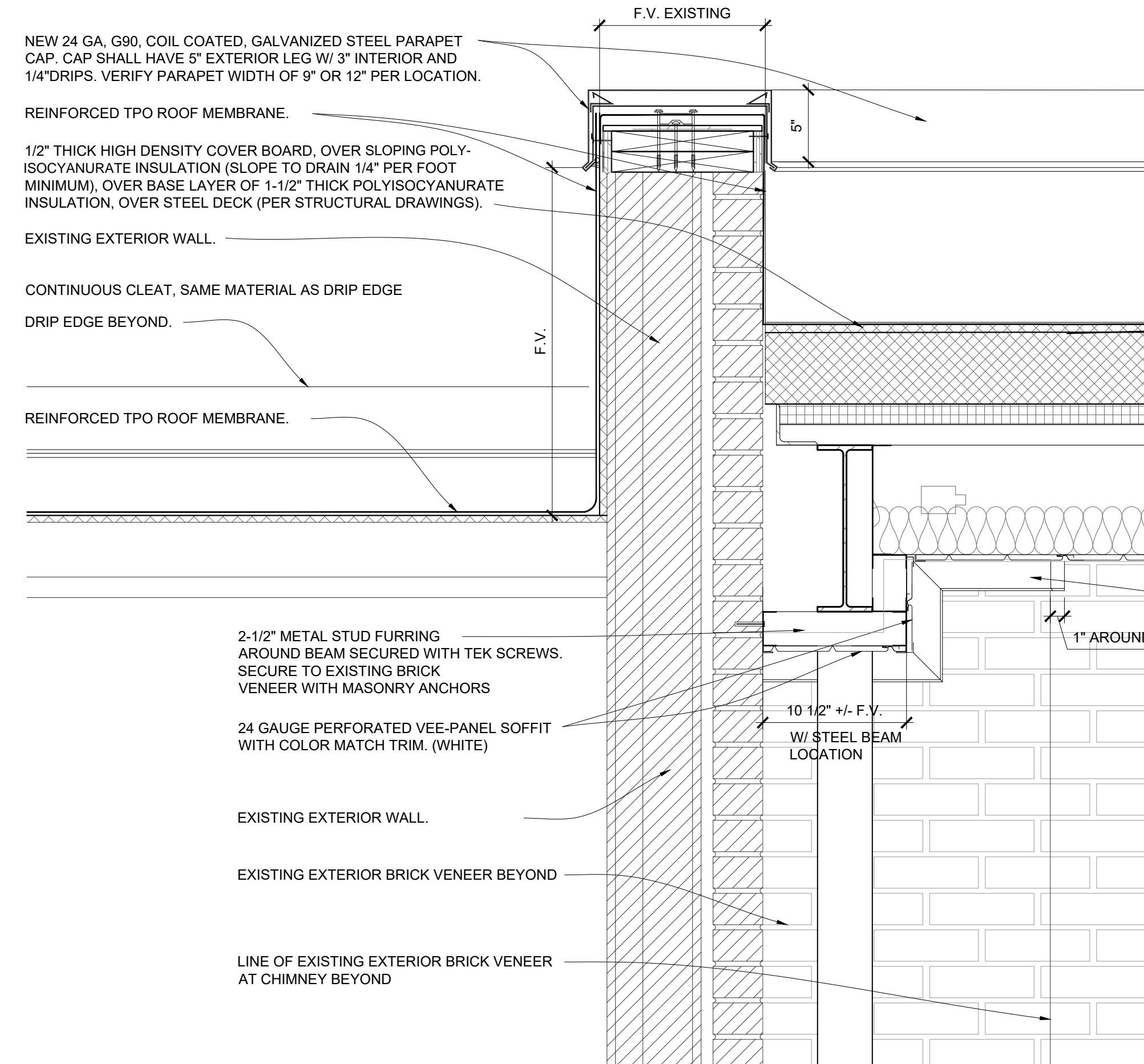
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SHEET TITLE:
**BUILDING
SECTION**

SHEET NUMBER:

A-301

12/12/2025
17 OF 27 SHEETS

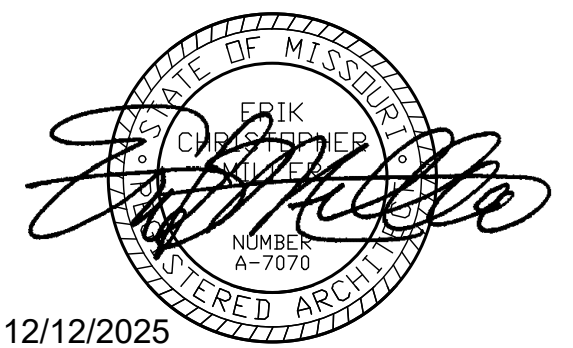


1 ENLARGED PLAN DETAIL
A-301 3\"/>

2 WALL SECTION
A-301 1-1/2\"/>

M
L
K
J
H
G
F
E
D
C
B
A

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15



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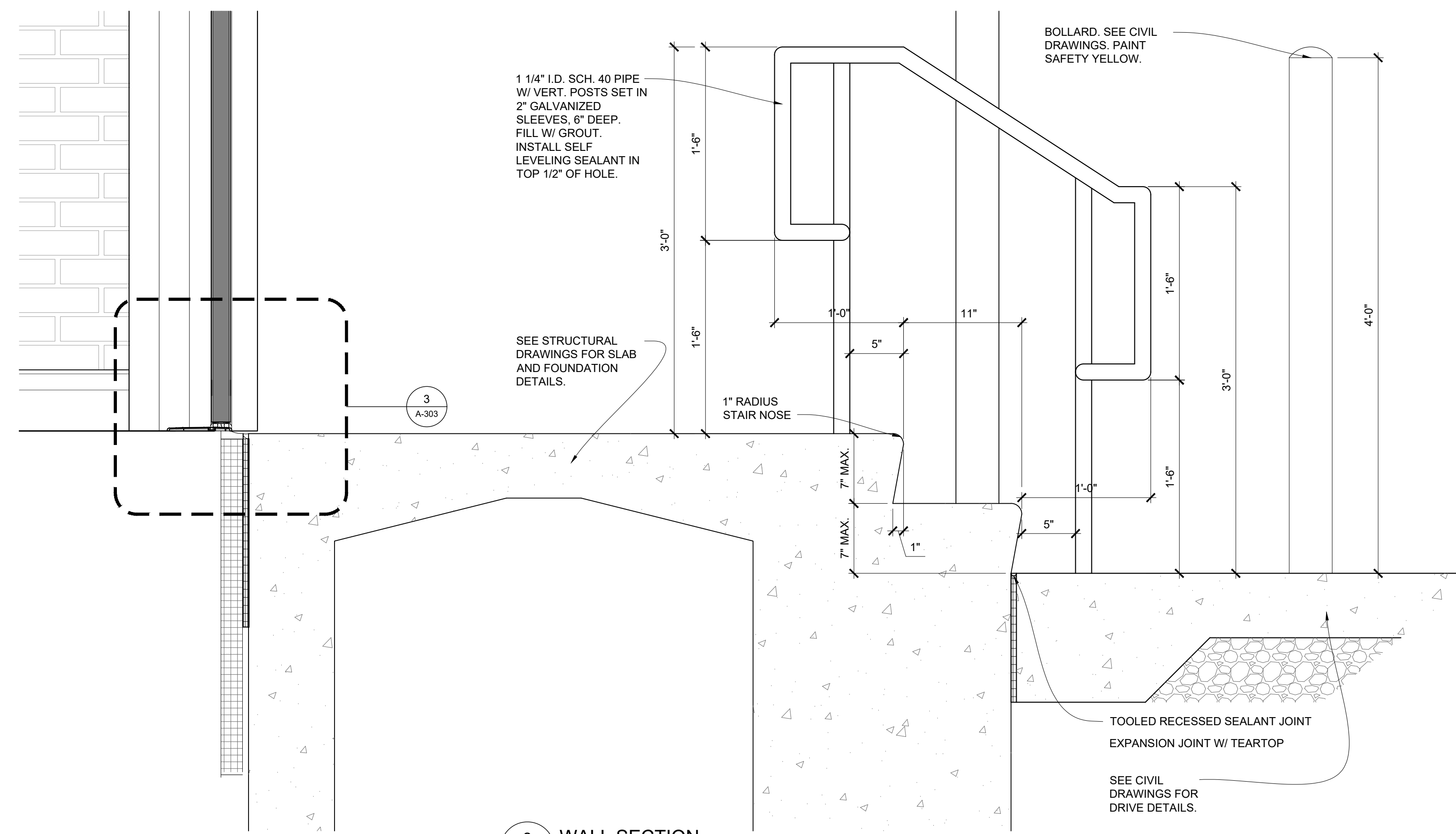
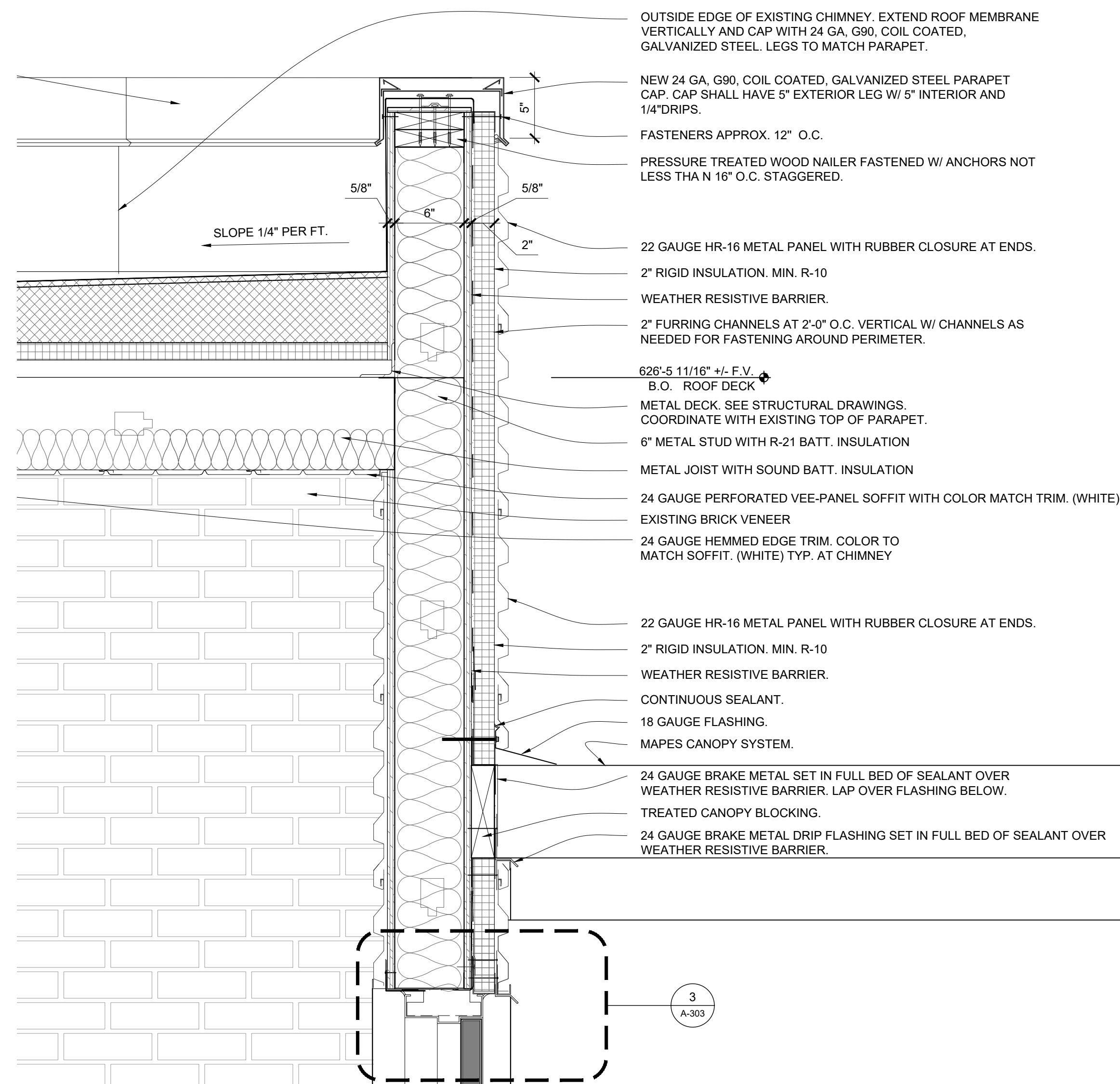
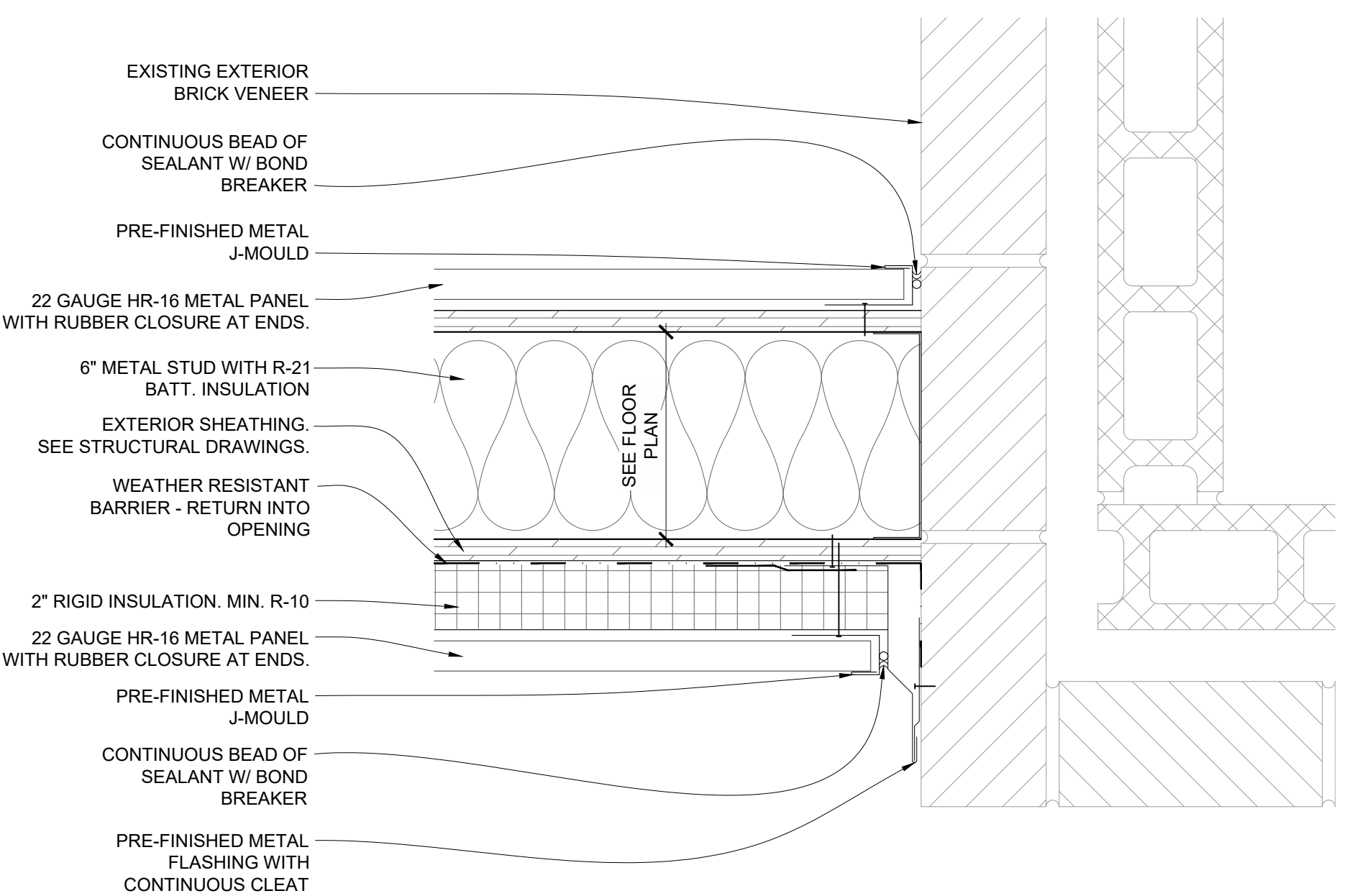
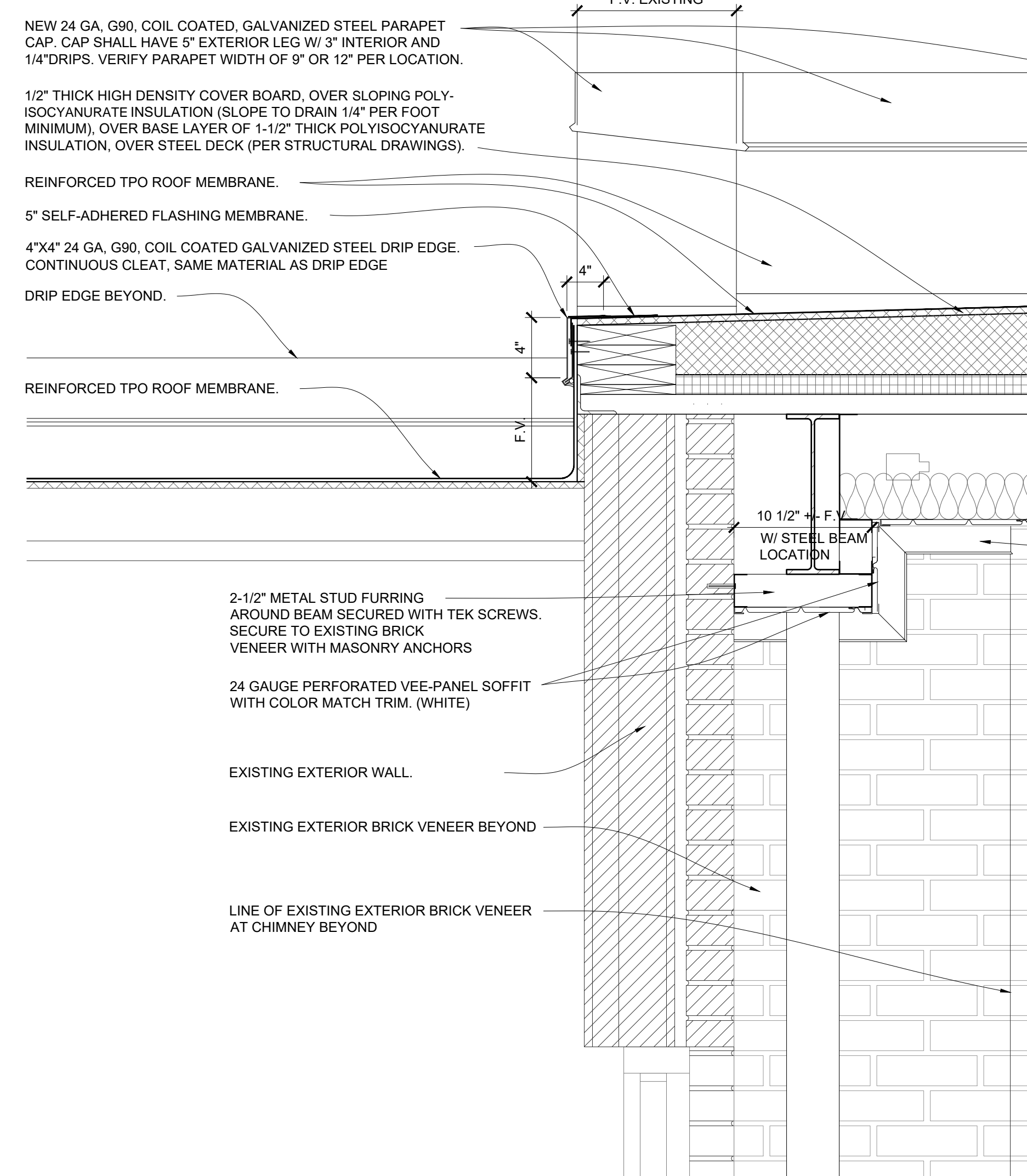
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DESIGNED BY: SI

SHEET TITLE:
**BUILDING
SECTION**

SHEET NUMBER:

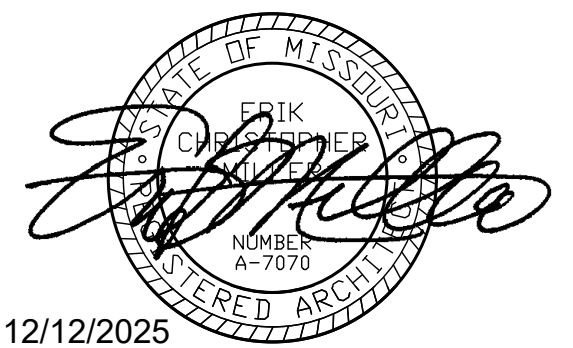
A-302

12/12/2025
18 OF 27 SHEETS



1 ENLARGED PLAN DETAIL
3" = 1'-0"

2 WALL SECTION
1-1/2" = 1'-0"

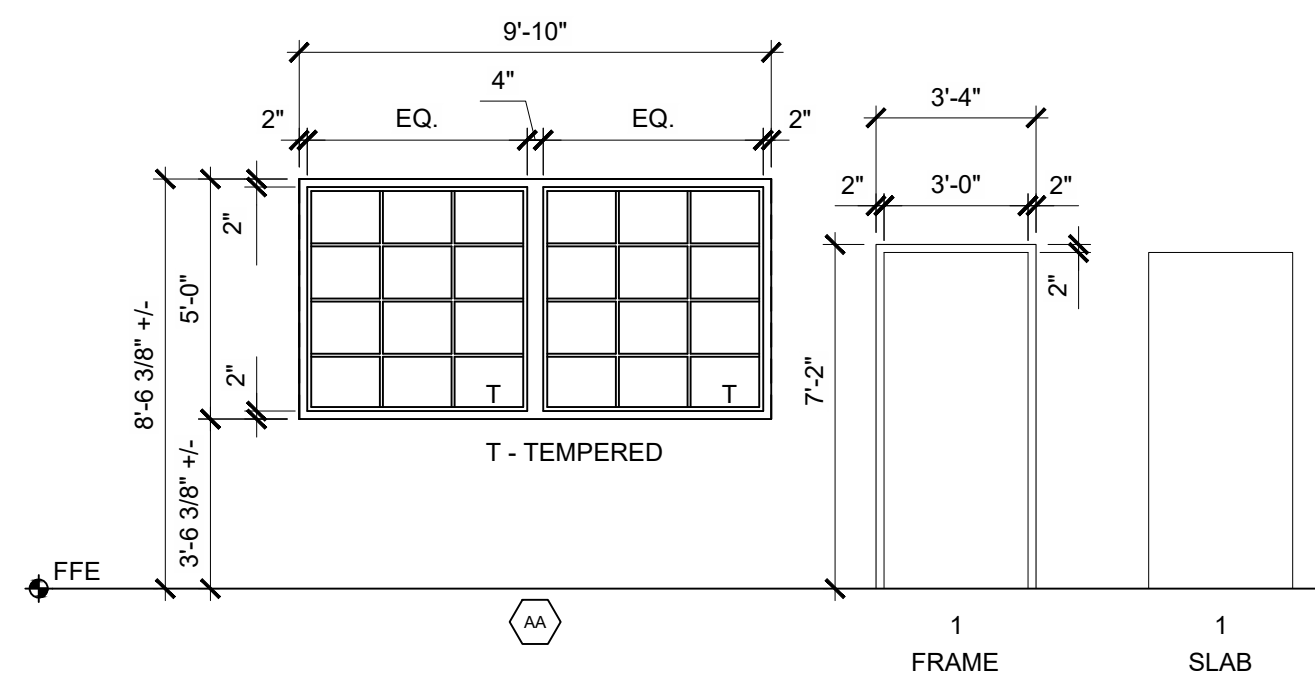


ROOM FINISH SCHEDULE										
ROOM #	ROOM NAME	FLOOR MATL.	BASE MATL.	WALL				CEILING		REMARKS
				NORTH	EAST	SOUTH	WEST	FINISH	HEIGHT	
BASEMENT FLOOR										
B101	STORAGE	CONCRETE INFILL	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	
B102	STORAGE	CONCRETE INFILL	R.B. @ EAST	N.A.	PNT GB	N.A.	N.A.	N.A.	N.A.	
B103	R.R.	EPOXY	EPOXY	EP/PNT GB	EP/PNT GB	EP/PNT GB	EP/PNT GB	A.C.T.	SEE RCP	EPOXY UP TO 4'-0". PAINT ABOVE
B104	SHOWER	EPOXY	EPOXY	EPOXY	EPOXY	EPOXY	EPOXY	PT GB	SEE RCP	EPOXY PAINT ON CEILING
B105	FUTURE KITCHENETTE	EPOXY	R.B.	PNT GB	NA	NA	NA	ACT	N.A.	
GROUND LEVEL										
101	STAIR	EPOXY/RST R.T.	R.B.	M.P.	M.P.	EXISTING BRICK M.P. INFILL	???	SP	BOTTOM OF STRUCTURE	1
102	VEST.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	
103	CONSOLE	N.A.	PNT GB	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	2

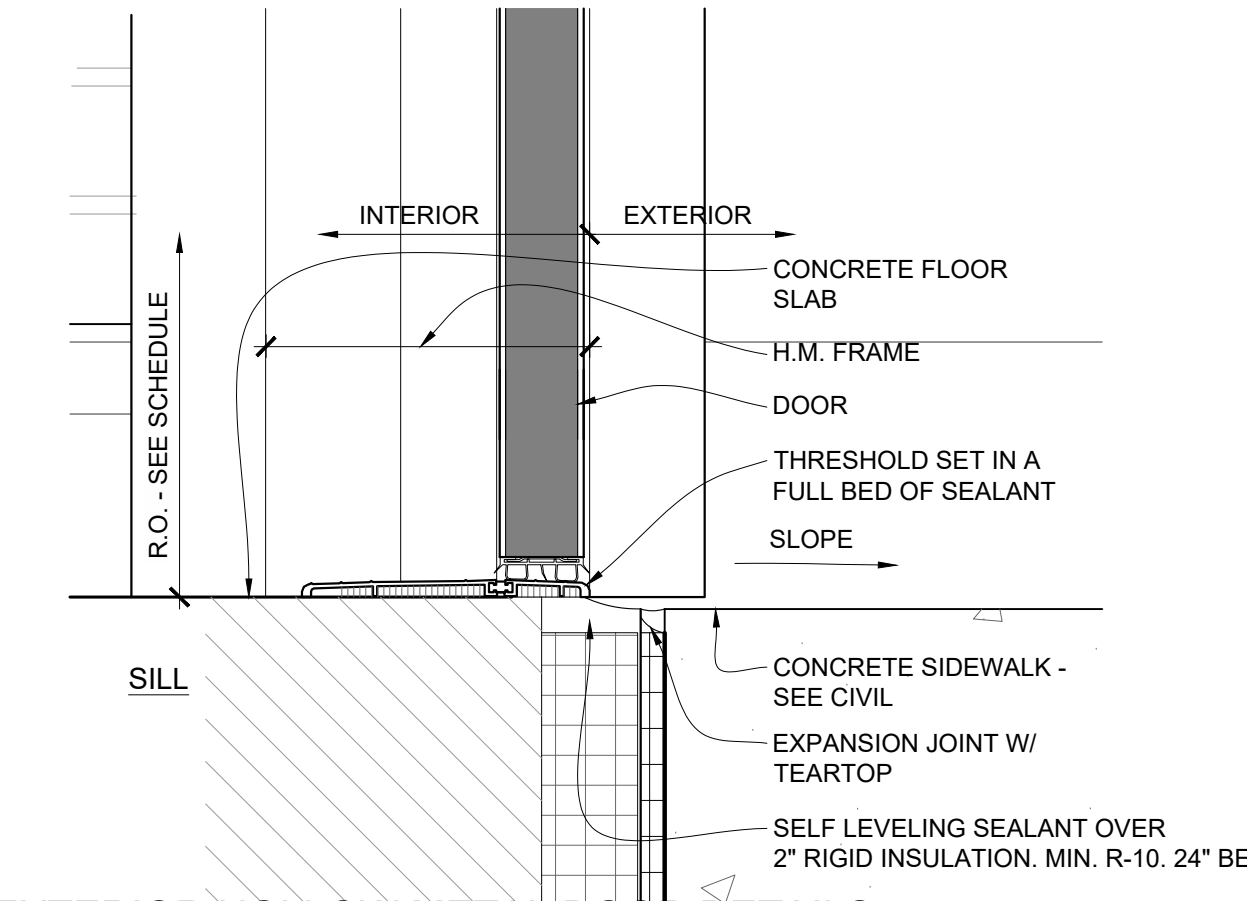
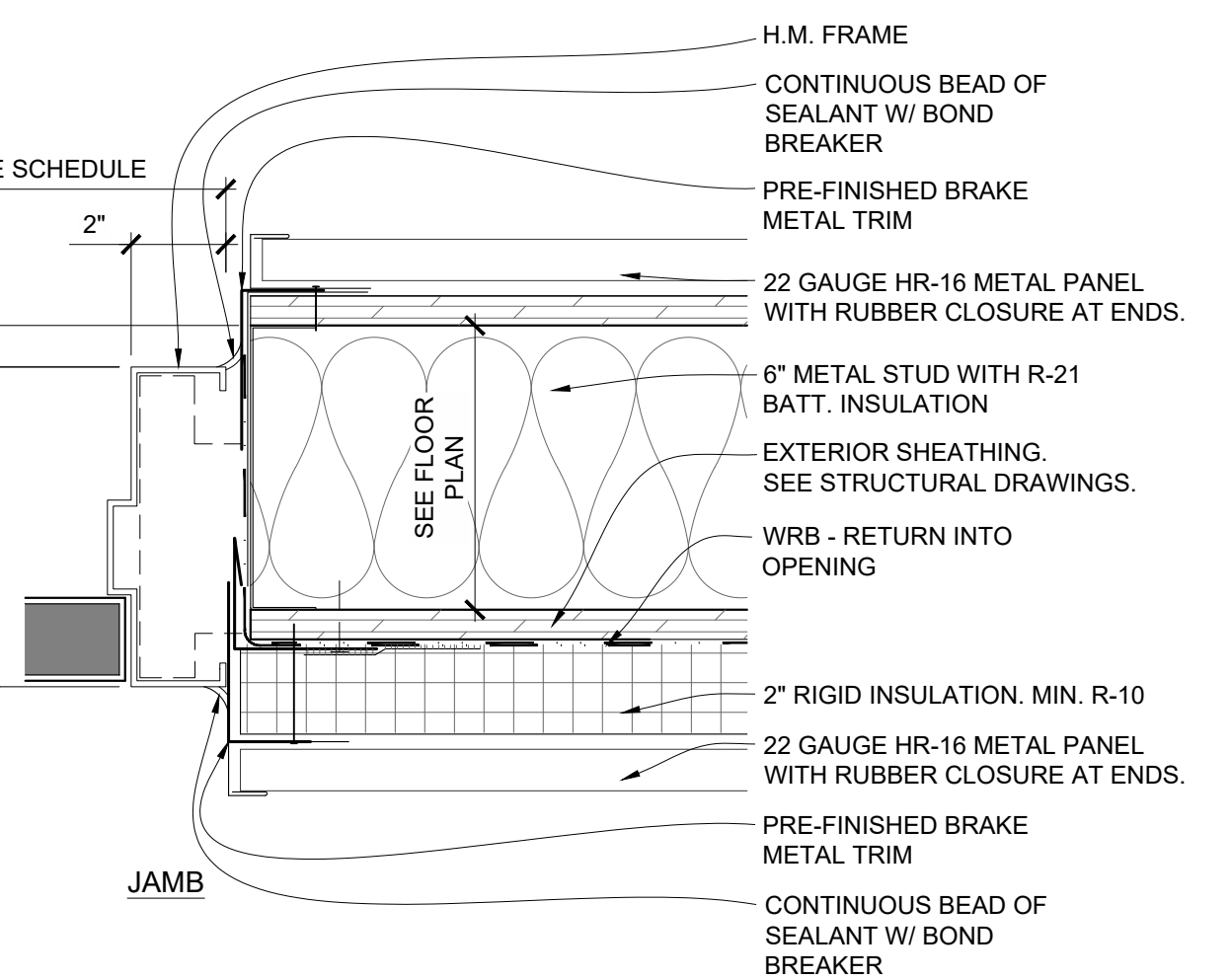
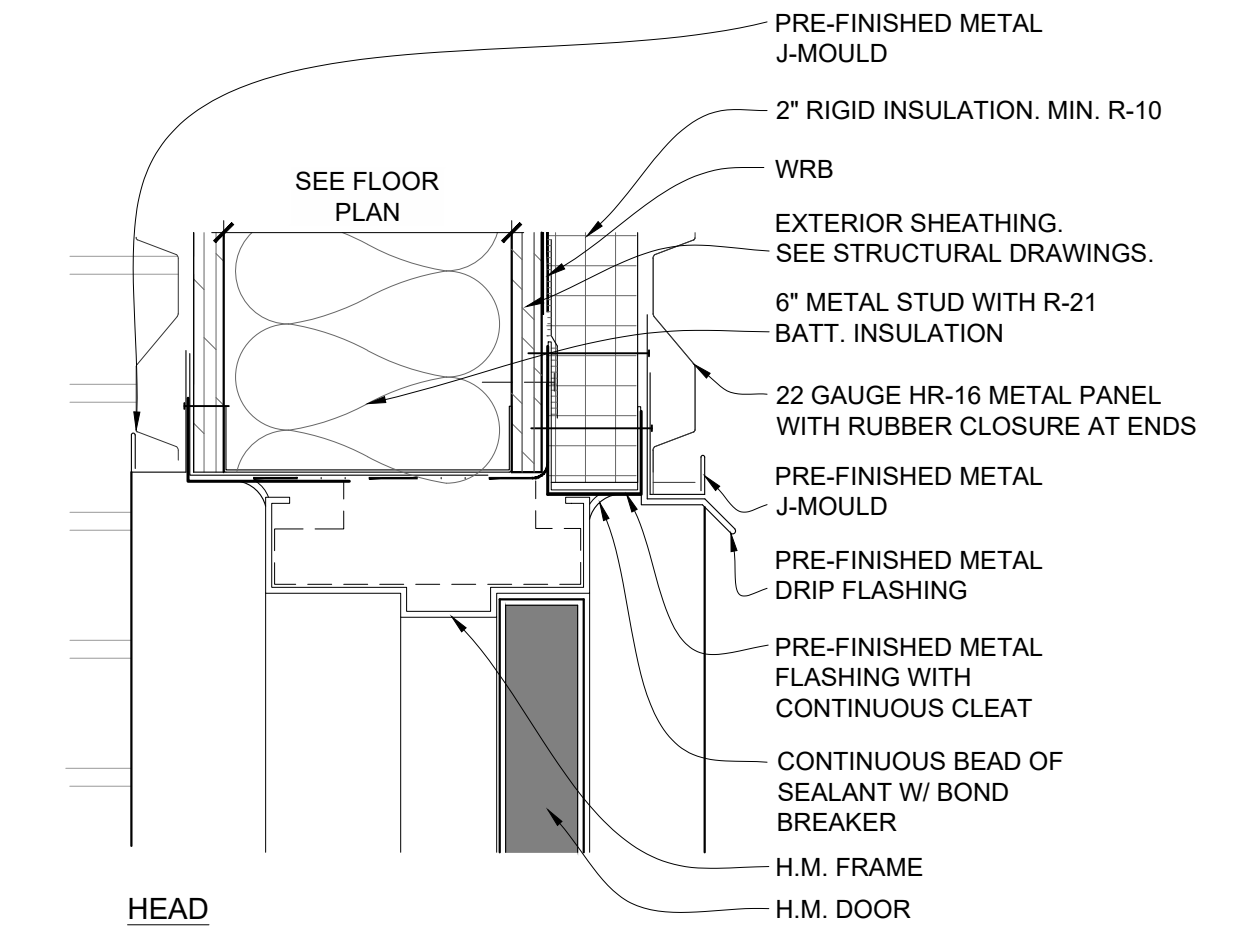
ABBREVIATIONS
A.C.T. - ACCOUSTICAL CEILING TILE
CONC - CONCRETE
PNT GB - PAINTED GYPSUM BOARD
RST - JOHNSONITE ANGLE FIT RUBBER STAIR TREAD WITH INTEGRATED RISER, FASTLANE, 38 PEWTER, 40 BLACK INSERT
R.T. - RUBBER TILE - JOHNSONITE RUBBER TILE, 38 PEWTER, SOLID COLOR, FAST LANE
R.B. - RUBBER BASE - JOHNSONITE, 38 PEWTER, 4" COVE BASE
M.P. - METAL WALL PANEL
SP - METAL SOFFIT PANEL-VENTED

KEY NOTES:
1 RUBBER TREADS AND RISERS. TRANSITION EPOXY AT STAIR AN EXISTING DOOR THRESHOLD
2 PAINT CORNER TO CORNER. MATCH EXISTING COLOR AND SHEEN

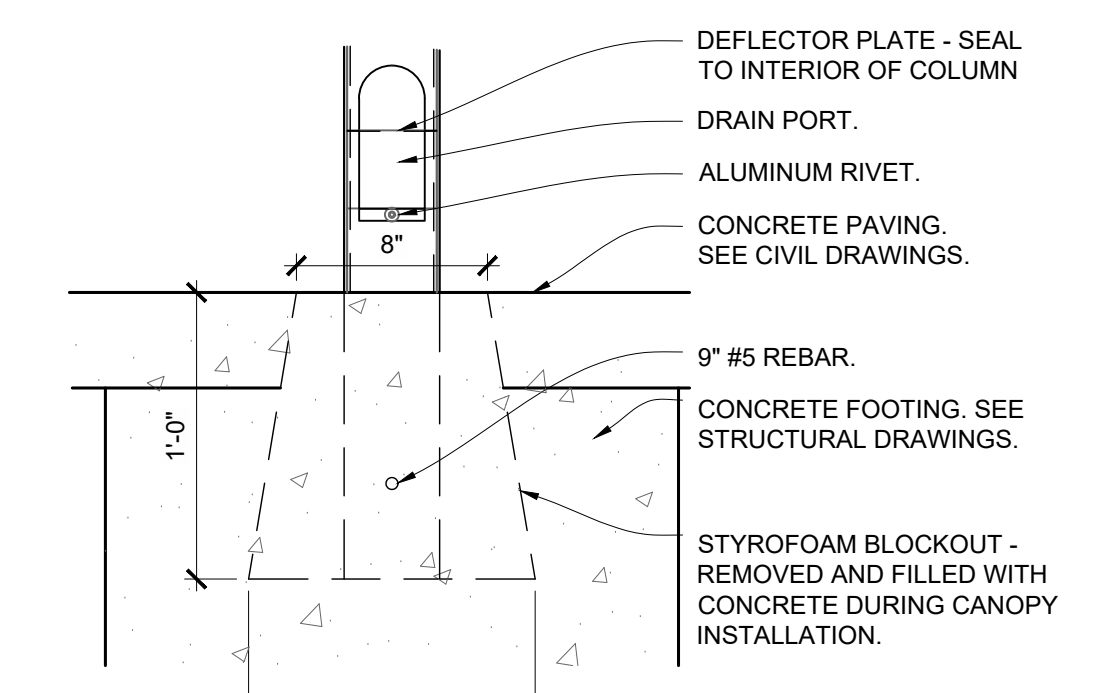
DOOR SCHEDULE				FRAME SCHEDULE				DETAILS			HDWR	FIRE RATING	REMARKS	
DOOR NO.	DOOR LEAF SIZE W X H	MATERIAL		FRAME SIZE W X H	MATERIAL			HEAD	JAMB	SILL	HARDWARE - SEE SPECS GROUP			
BASEMENT FLOOR														
B103	STOR. R.R.	3'-0" X 7'-0"	1	3'-4" X 7'-2"	1	2/A-303	2/A-303	NA	1	NA				
GROUND LEVEL														
101	EXT. STAIR	3'-0" X 7'-0"	1	3'-4" X 7'-2"	1	3/A-303	3/A-303	3/A-303	2	NA				



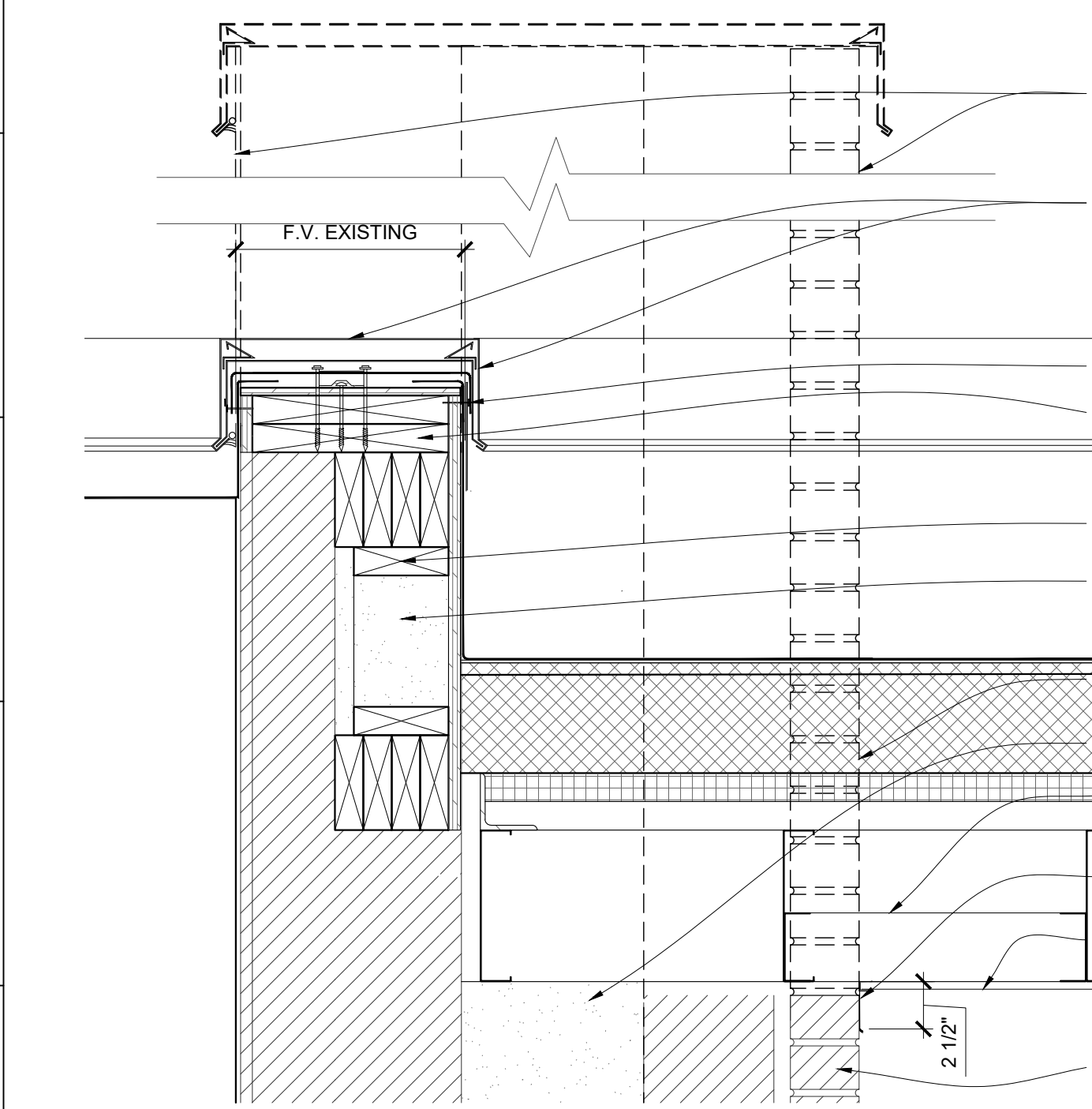
1 WINDOW AND DOOR FRAME ELEVATION
A-303 1/4" = 1'-0"



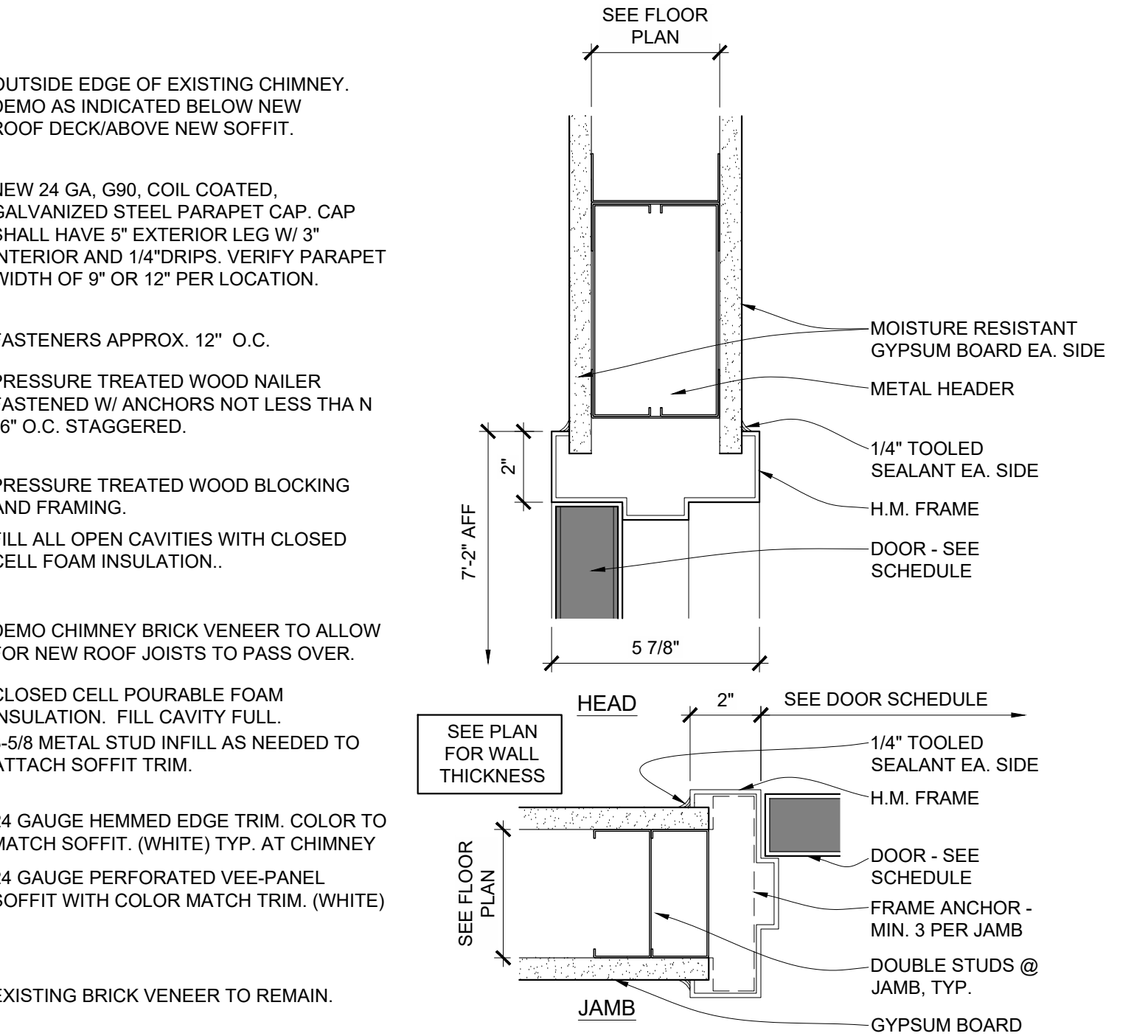
3 EXTERIOR HOLLOW METAL DOOR DETAILS
A-303 3" = 1'-0"



4 CANOPY COLUMN BASE DETAIL
A-303 1-1/2" = 1'-0"



5 CHIMNEY DEMO AND CAP
A-303 3" = 1'-0"



2 INTERIOR HOLLOW METAL DOOR DETAILS
A-303 3" = 1'-0"

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REPLACE ROOF &
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BASEMENT/ACCESS

MSHP INTEROPERABILITY
2413 EAST MCCARTY ST.
JEFFERSON CITY, MO

PROJECT # R2508-01
SITE # 6027
ASSET # 8136027002

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ISSUE DATE: 12/12/2025

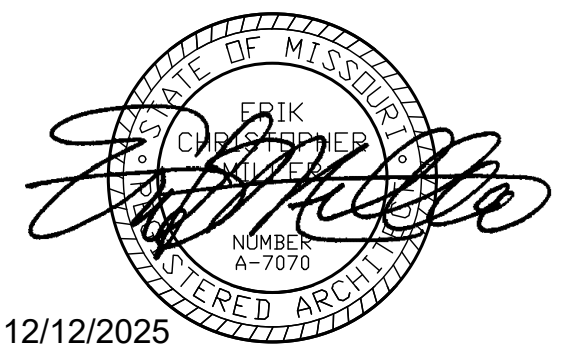
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DRAWN BY: SI
CHECKED BY: SI
DESIGNED BY: SI

SHEET TITLE:
SCHEDULES AND
DOOR DETAILS

SHEET NUMBER:

A-303

12/12/2025
19 OF 27 SHEETS



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CAD DWG FILE: _____
DRAWN BY: SI
CHECKED BY: SI
DESIGNED BY: SI

SHEET TITLE:
**WINDOW
SCHEDULE AND
DETAILS**

SHEET NUMBER:

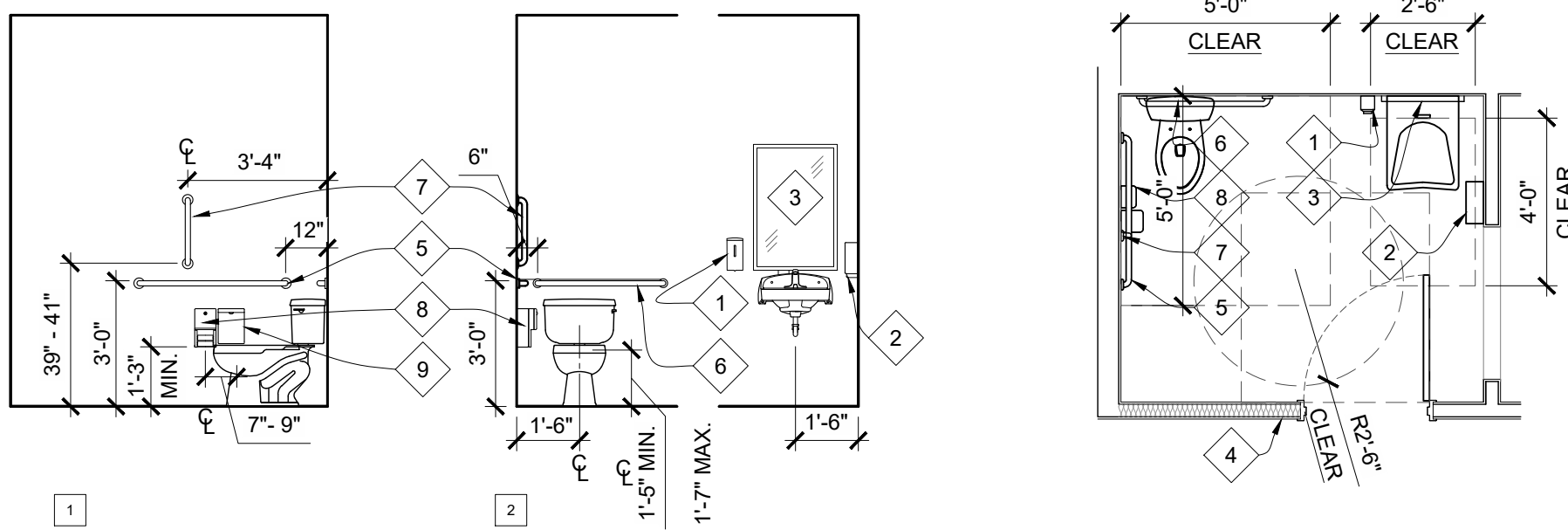
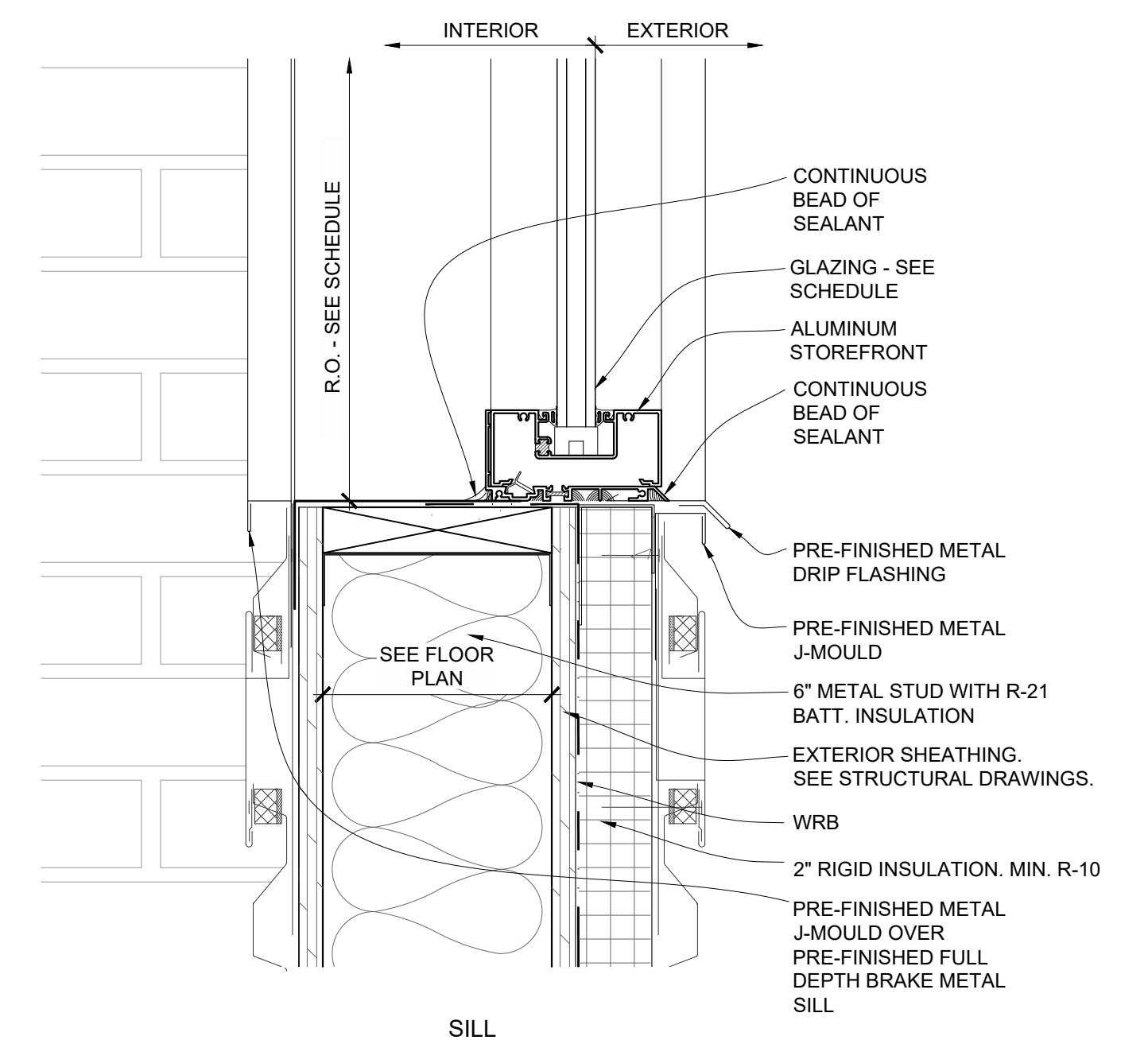
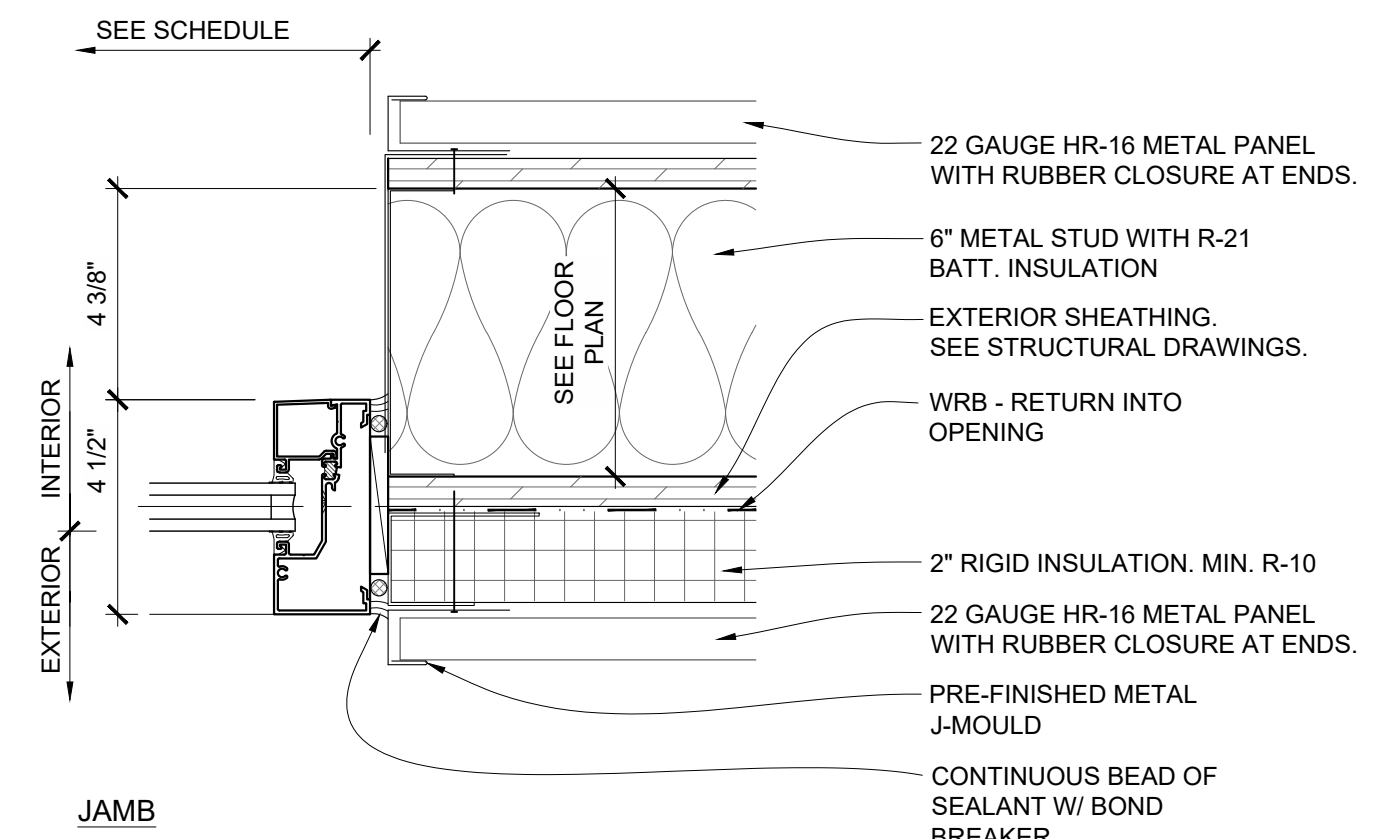
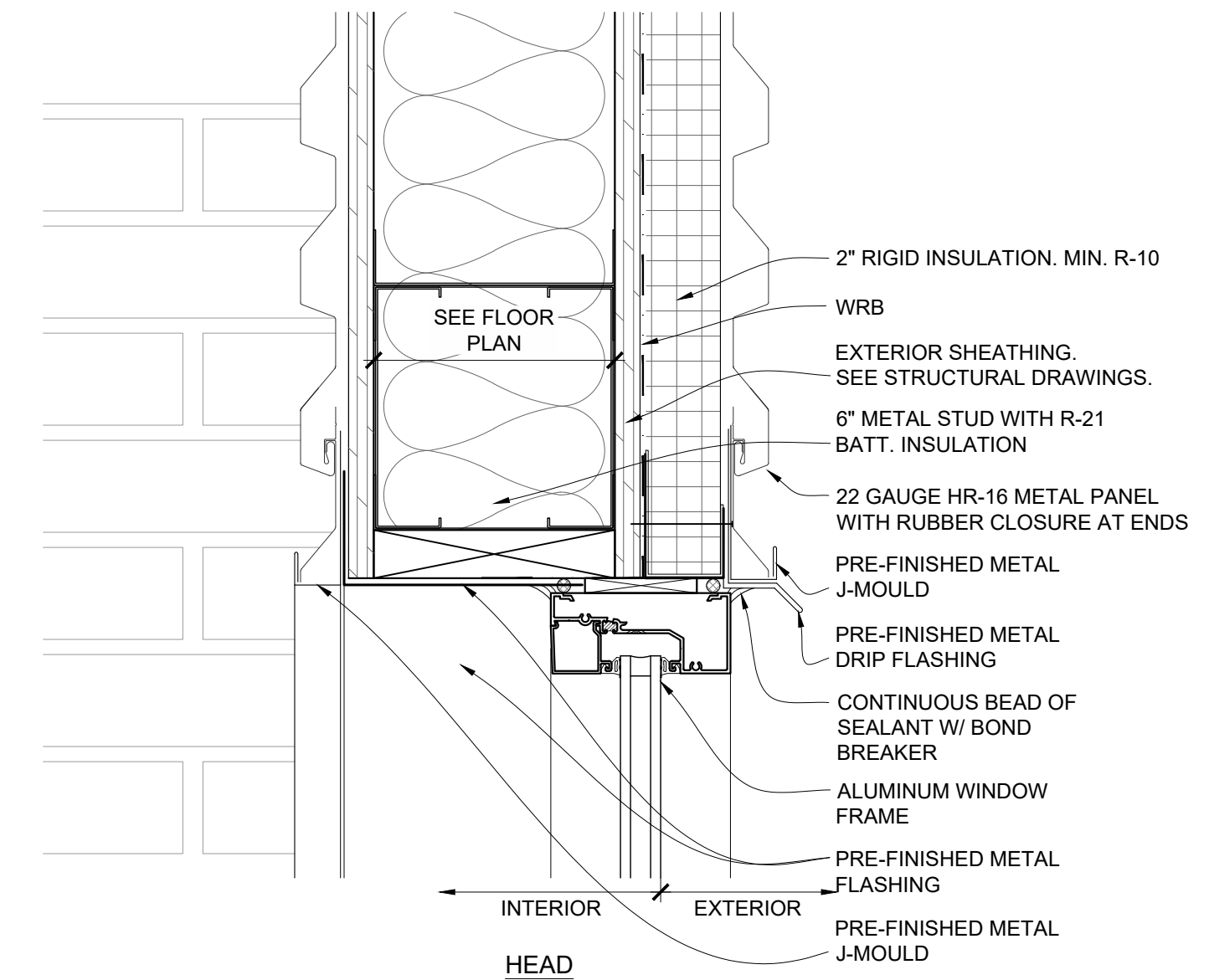
A-304

12/12/2025
20 OF 27 SHEETS

WINDOW SCHEDULE							REMARKS
WINDOW NUMBER	ROUGH OPENING SIZE (W x H)	FRAME ELEVATION	TEMPERED GLAZING	MATERIAL	DETAILS		
AA	9'-10" X 5'-0"	A	X	ALUMINUM HOLLOW METAL VINYL CLAD WOOD	HEAD JAMB SILL		KAWNEER TRIFAB 451 OR APPROVED EQUAL COLOR TO MATCH EXISTING WINDOWS (SANDSTONE)

ACCESSORY SCHEDULE		
NOTE	ITEM	REMARKS
1	SOAP DISPENSER	WALL MTD. AMERICAN SPECIALTIES 0360
2	PAPER TOWEL DISPENSER	BOBRICK B-262
3	14" TEMPERED GLASS MIRROR	BOBRICK B-165 2436 (24" X 36")
4	RESTROOM SIGN	UNISEX
5	42" HORIZONTAL GRAB BAR	BOBRICK B-6806X42
6	36" HORIZONTAL GRAB BAR	BOBRICK B-6806X36
7	18" GRAB BAR	BOBRICK B-6806X18
8	TOILET PAPER DISPENSER	BOBRICK B-2888

G.C. PROVIDED AND INSTALLED ACCESSORIES PROVIDE WALL BLOCKING / REINFORCING AS REQUIRED FOR ACCESSORY INSTALLATION AND MOUNTING.

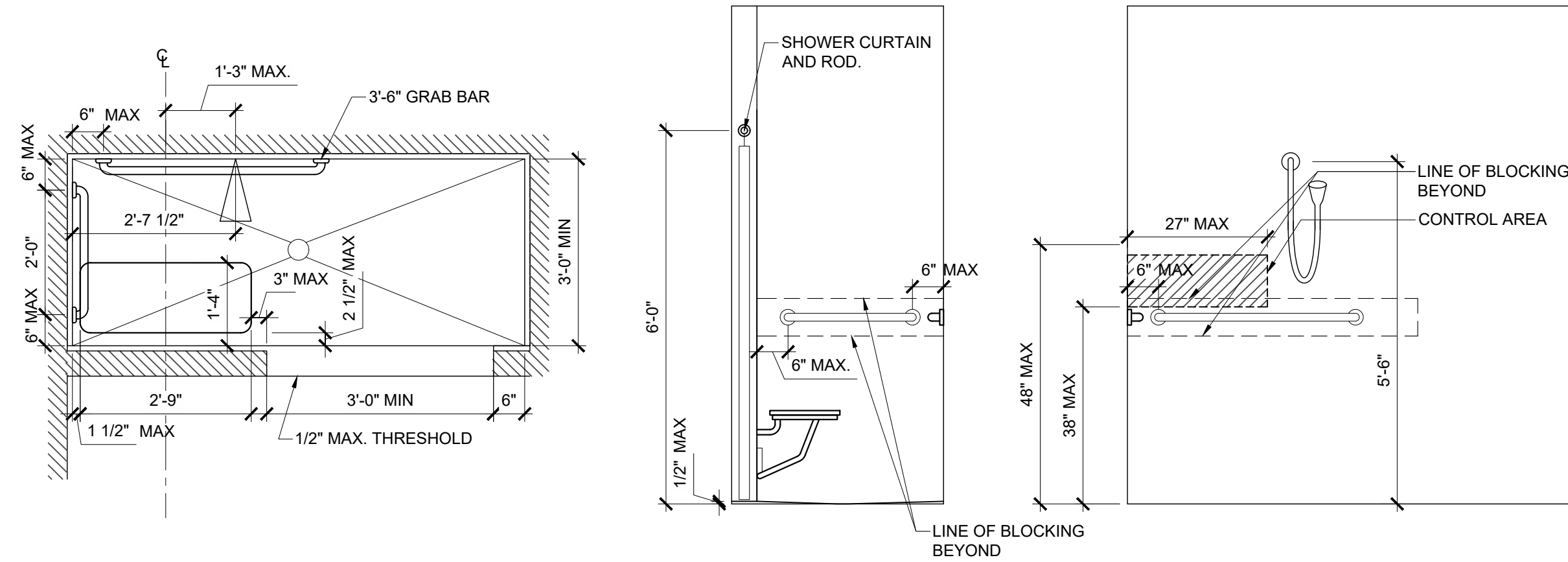


7 MOUNTING DETAILS

A-304 1/2" = 1'-0"

8 MOUNTING DETAILS

A-304 1/2" = 1'-0"



6 SHOWER BLOCKING DETAILS

A-304 1/2" = 1'-0"

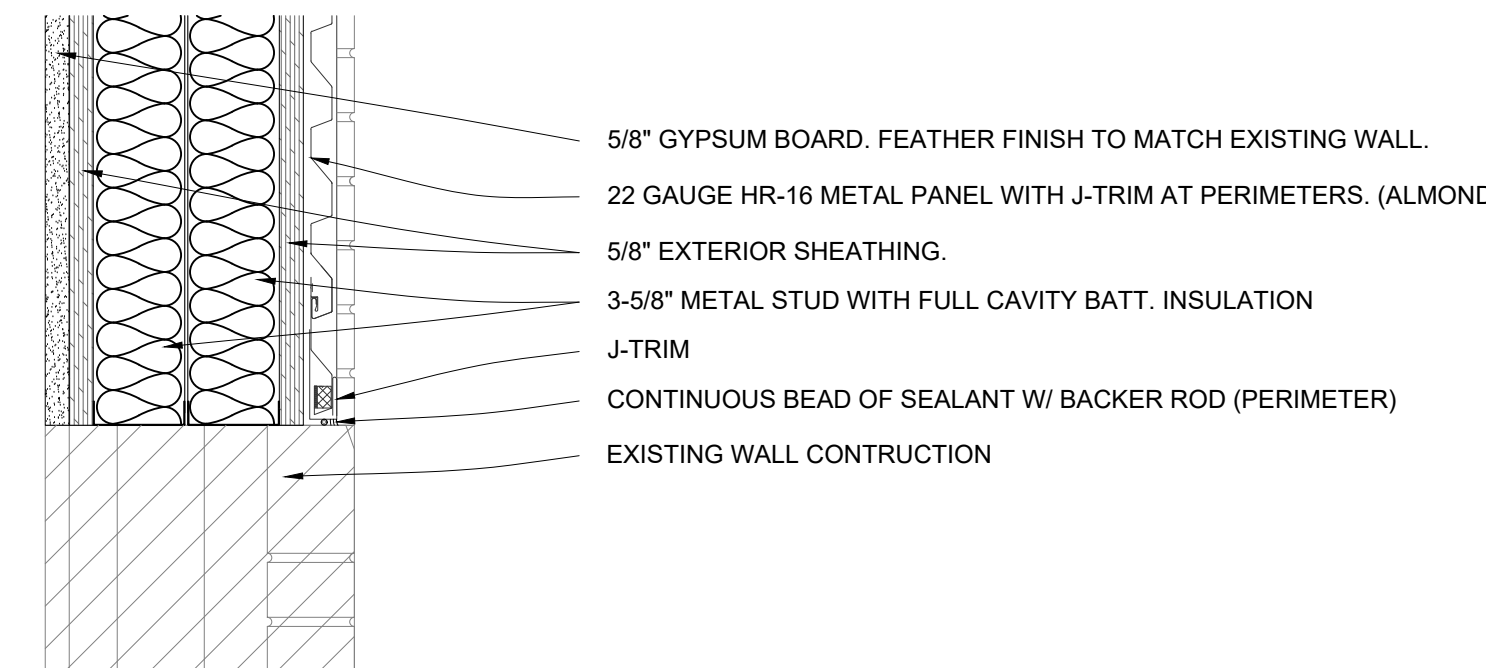
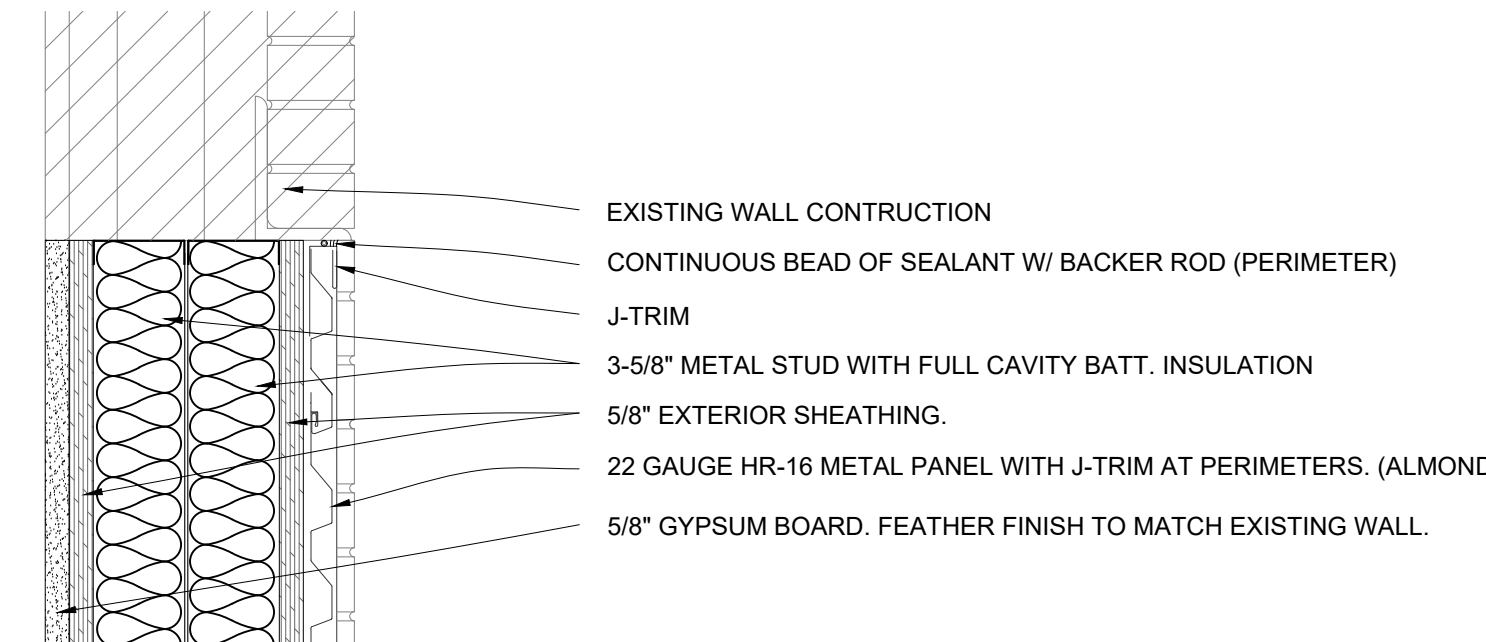
4 INTERIOR HANDRAIL SECTION

A-304 1-1/2" = 1'-0"

5 RESTROOM SINK CLEARANCES

A-304 1" = 1'-0"

1 1/4" I.D. SCH. 40 PIPE W/ BRACKETS @ 5'-0" MAX. COORDINATE MOUNTING LOCATION WITH EXISTING CONDITIONS. TYP. BOTH SIDES. PAINT DARK BRONZE. PROVIDE BLOCKING IN NEW WALL. SECURE WITH EPOXY AND EXPANSION ANCHORS IN CONCRETE AND BRICK VENEER. SECURE WITH LAG BOLTS INTO WOOD BLOCKING.



2 ENLARGED WINDOW INFILL DETAIL

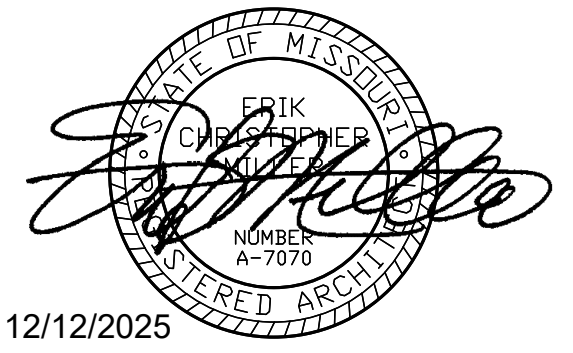
A-304 1-1/2" = 1'-0"

3 EXTERIOR ALUMINUM WINDOW DETAILS

A-304 3" = 1'-0"

1 INTERIOR HANDRAIL ELEVATION

A-304 1-1/2" = 1'-0"



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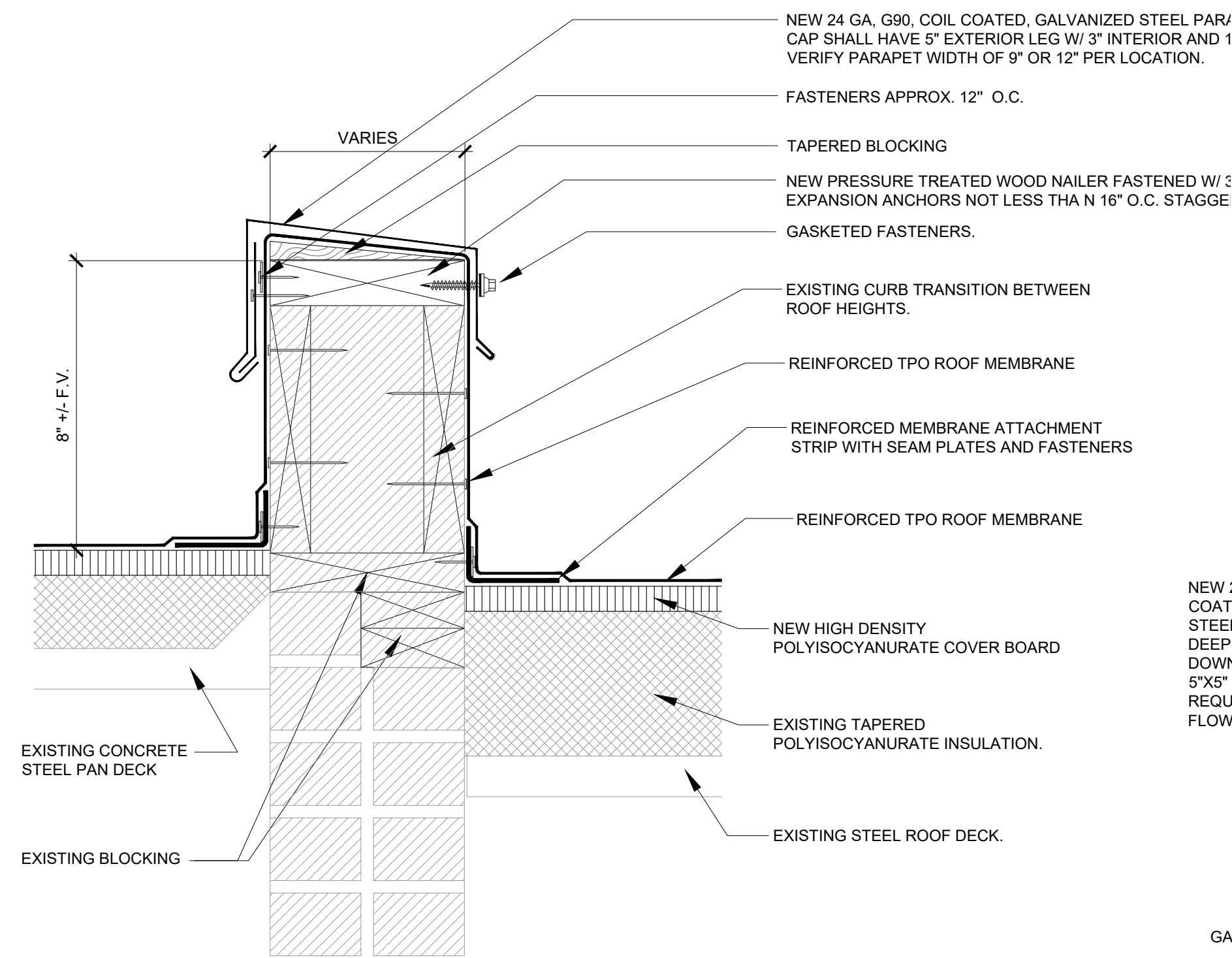
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ROOF DETAILS

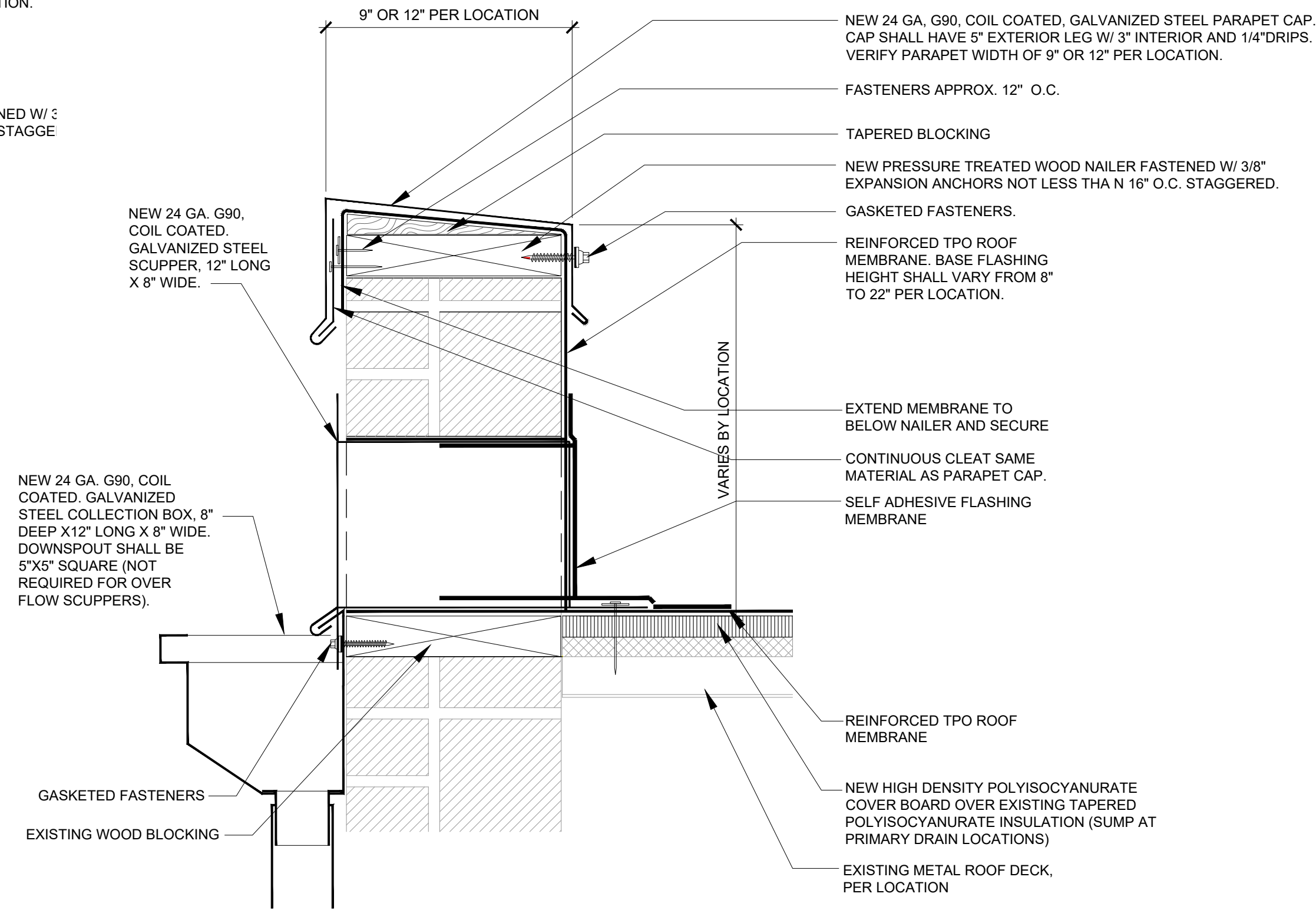
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A-501

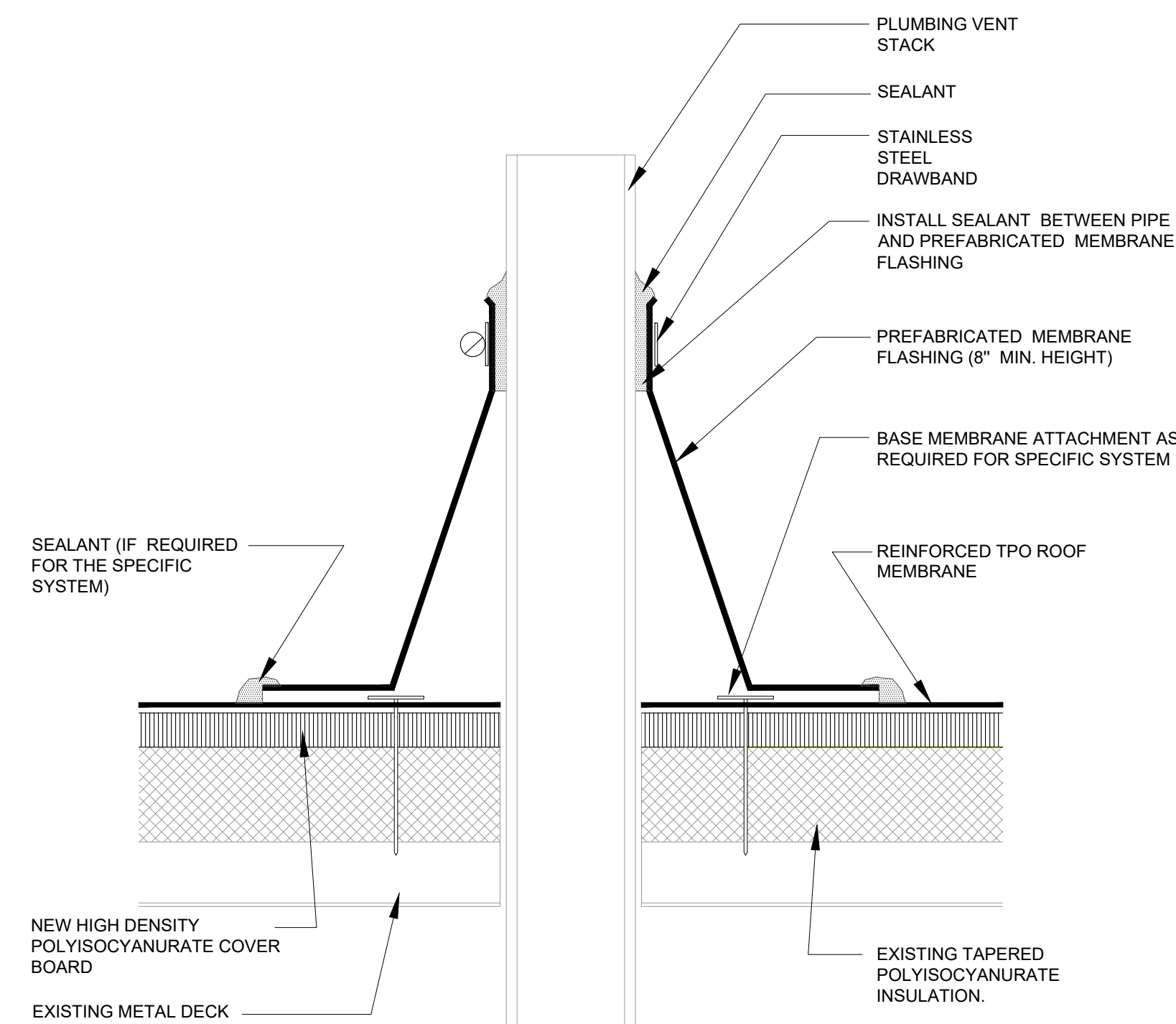
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1 ROOF DIVIDER AT CHANGE IN DECK HEIGHTS
A-501 NO SCALE


















2 SCUPPER THROUGH WALL AND COLLECTION BOX
A-501 NO SCALE



3 PLUMBING VENT (PIPE FLASHING)
A-501 NO SCALE

HVAC PLAN SYMBOL LEGEND

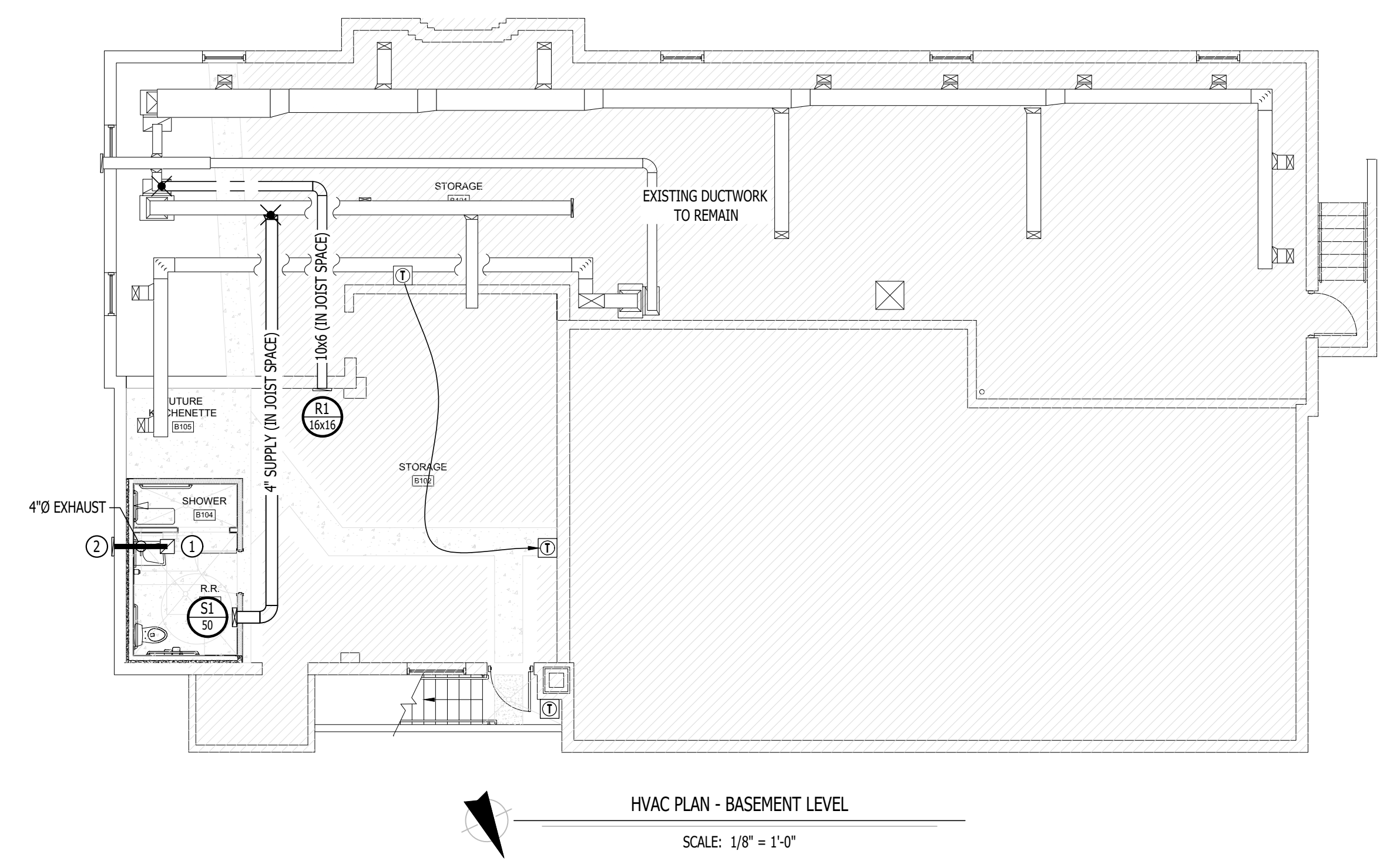
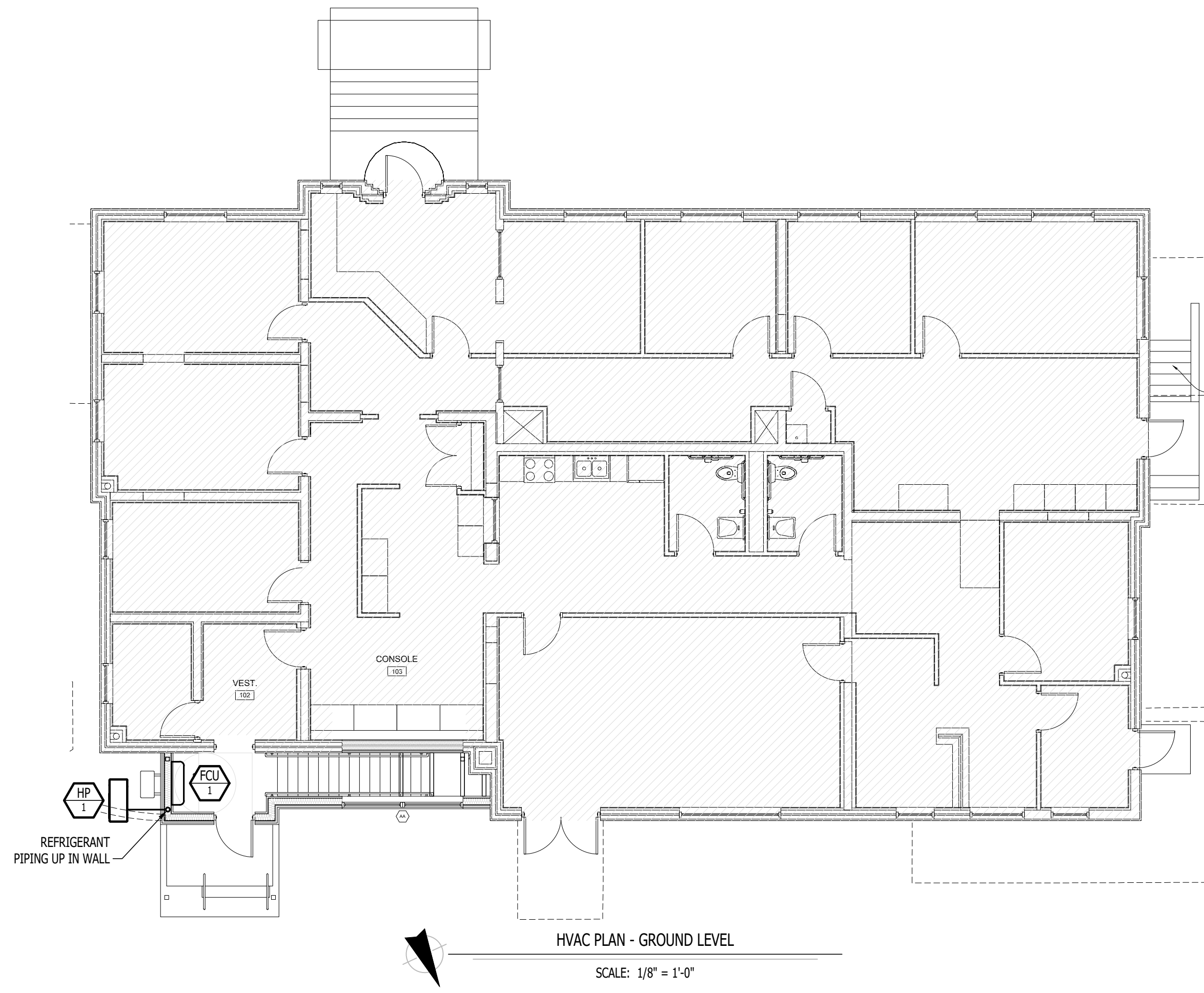
-  EQUIPMENT TYPE (REFER TO EQUIPMENT SCHEDULE)
-  EQUIPMENT REFERENCE NUMBER
-  DIFFUSER/GRILLE TYPE (REFER TO SCHEDULE)
-  CUBIC FEET PER MINUTE (CFM) / FACE SIZE
-  SUPPLY DUCTWORK
-  RETURN DUCTWORK
-  EXHAUST DUCTWORK
-  OUTSIDE AIR DUCTWORK
-  FLEX DUCT
-  VENT / COMBUSTION AIR
-  TIE INTO EXISTING
-  SUPPLY DIFFUSER (HATCH INDICATES "NO FLOW ZONE")
-  RETURN DIFFUSER
-  BALANCE DAMPER
-  THERMOSTAT

HVAC PLAN GENERAL NOTES:

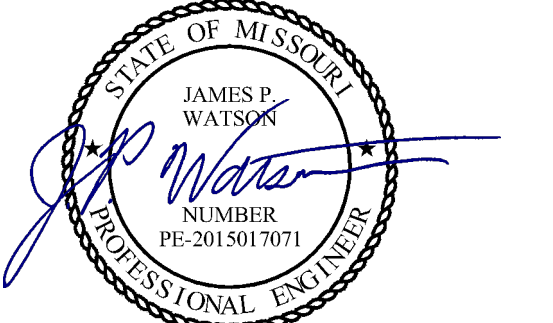
1. REFER TO SHEET MS01 FOR ADDITIONAL HVAC NOTES, DETAILS, REQUIREMENTS, AND SCHEDULES.
2. HVAC CONTRACTOR SHALL REVIEW ALL PROJECT DOCUMENTS AND COORDINATE LOCATION OF ALL EQUIPMENT, DUCTWORK, REFRIGERANT PIPING, CONDENSATE PIPING, HANGERS / SUPPORTS, ETC. WITH PLUMBING AND ELECTRICAL TRADES BEFORE INSTALLATION OF ANY MATERIAL. ADDITIONAL COSTS ASSOCIATED WITH LACK OF COORDINATION WILL NOT BE REIMBURSED.
3. ANY EXISTING HVAC EQUIPMENT OR DUCTWORK SHOWN IS FOR REFERENCE ONLY. HVAC CONTRACTOR TO FIELD VERIFY EXACT EQUIPMENT/DUCT SIZE, LOCATIONS, CONDITION, ETC. PRIOR TO INSTALLATION OF ANY MATERIAL AND NOTIFY ENGINEER OF ANY DISCREPANCIES.

HVAC PLAN KEY NOTES:

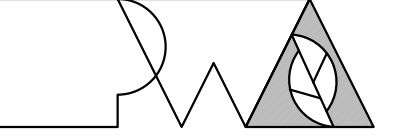
- ① EXHAUST FAN SUPPLIED & INSTALLED BY ELECTRICAL CONTRACTOR. HVAC CONTRACT TO SUPPLY & INSTALL DUCTWORK AND TERMINATION CAP.
- ② EXHAUST TERMINATION LOUVER EQUAL TO IMPERIAL R2. PAINT TO MATCH BUILDING.



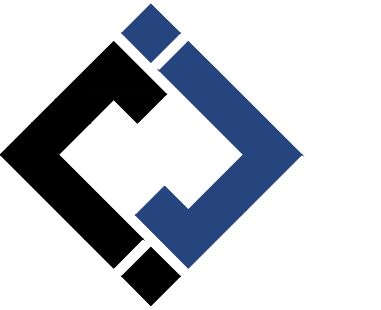
STATE OF MISSOURI
MIKE KEHOE,
GOVERNOR



James Watson, P.E. December 12, 2025
PE-2015017071
MO Certificate of Authority # 2018029680



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PWArchitects, Inc.
2120 Forum Blvd., Ste. 101
Columbia, Missouri 65203
PWArchitects.com | 573.449.2683
Peckham & Wright Architects an Architectural Corporation
Missouri State Certificate of Authority No. 000244



**J-SQUARED
ENGINEERING**
2400 Bluff Creek Drive, Suite 101
Columbia, Missouri 65201
573 - 234 - 4492 phone
www.j-squaredeng.com

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CAD DWG FILE: J21492
DRAWN BY: DET
CHECKED BY: JPW
DESIGNED BY: JAP

SHEET TITLE:

HVAC PLAN

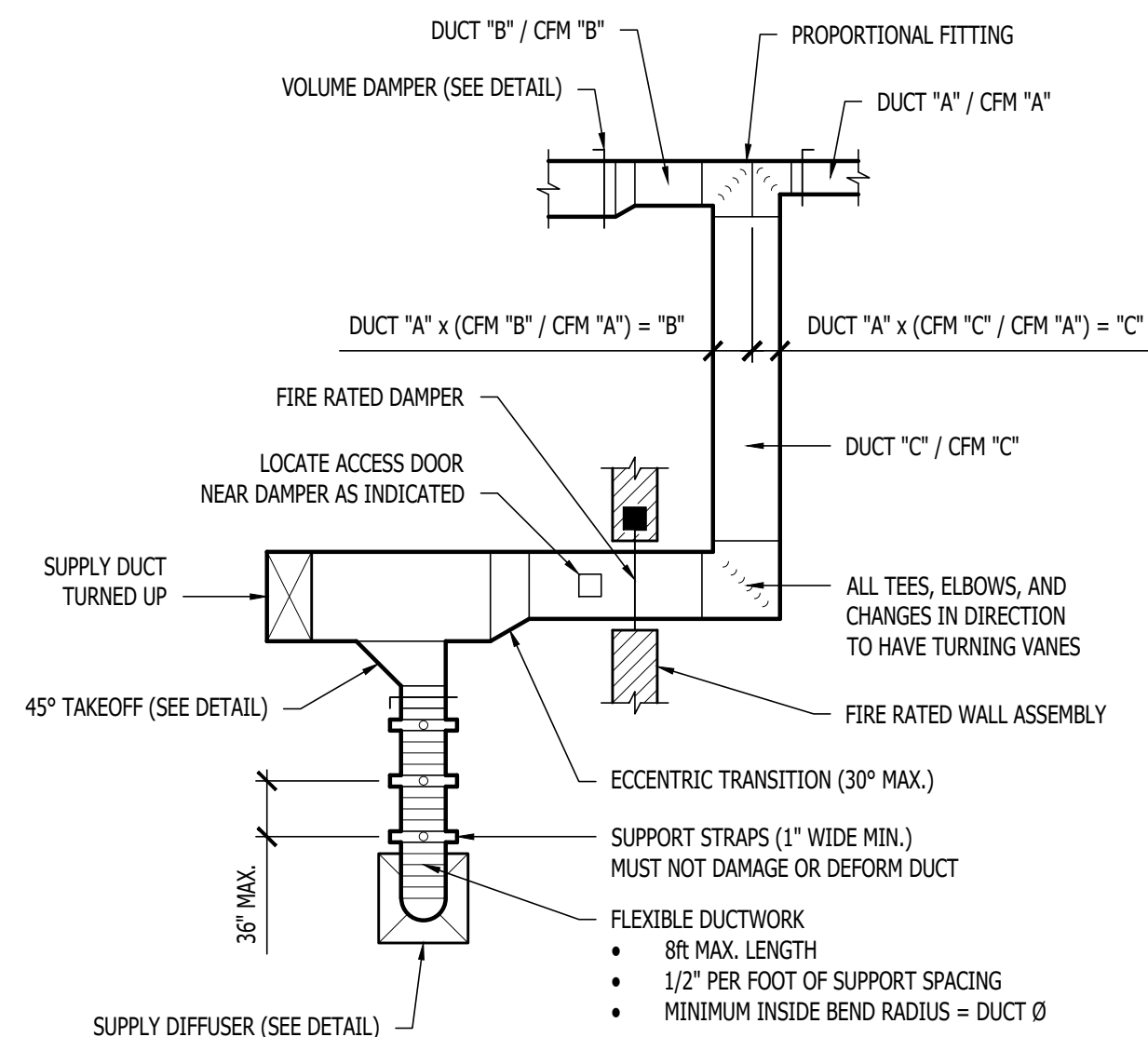
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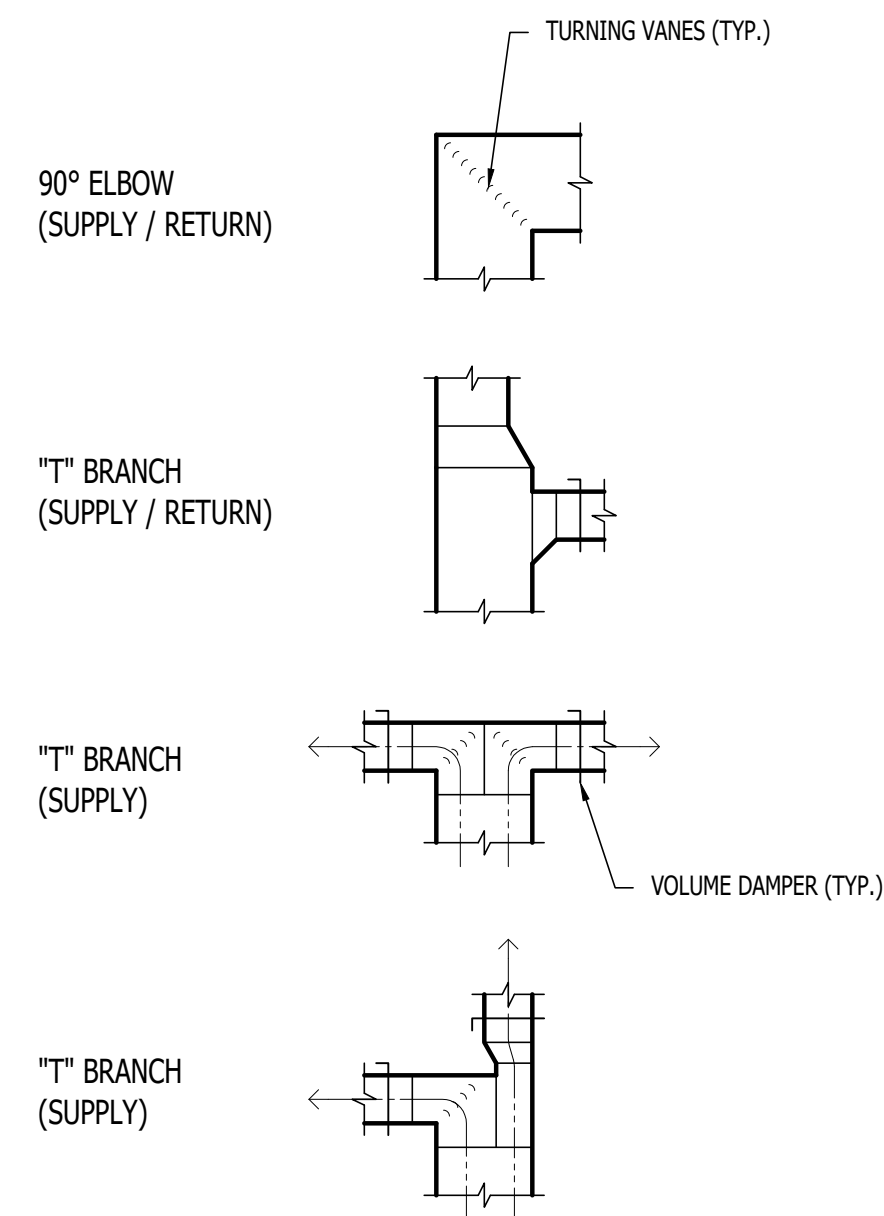
12/12/2025
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HVAC SPECIFICATIONS

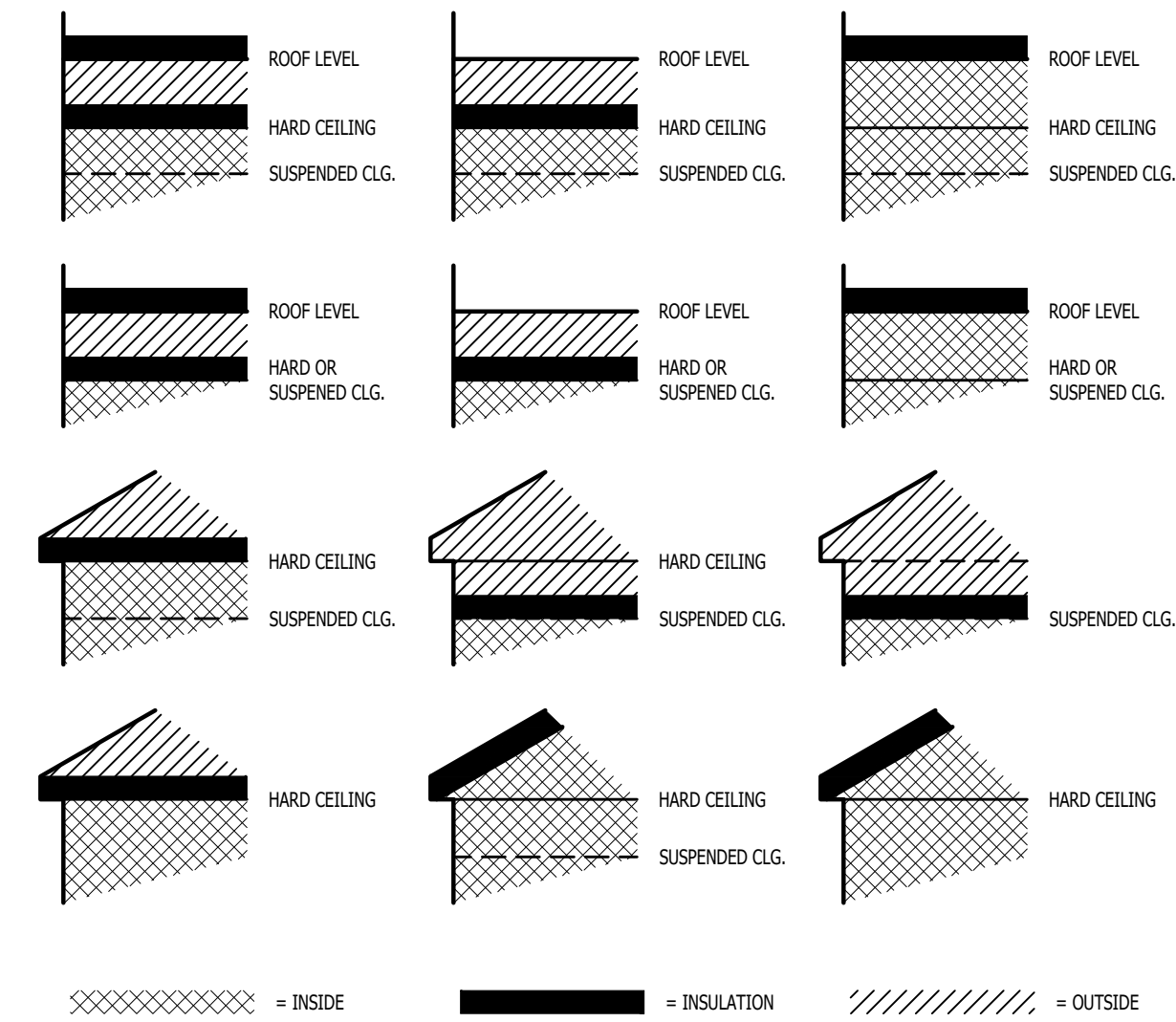
1. **GENERAL**
 - 1.1. REFER TO GENERAL MEP SPECIFICATIONS SECTION FOR ADDITIONAL REQUIREMENTS.
2. **WORKMANSHIP**
 - 2.1. COORDINATE WITH ALL OTHER TRADES SO THAT HVAC EQUIPMENT AND DUCT WORK DOES NOT BLOCK REQUIRED ACCESS OR CLEARANCE TO ANY EQUIPMENT, ACCESS PANELS, ELECTRICAL JUNCTION BOXES, ELECTRICAL PANELS, ETC.
 - 2.2. ALL HVAC EQUIPMENT IS TO BE INSTALLED PER MANUFACTURER'S PUBLISHED RECOMMENDATIONS AND/OR INSTALLATION INSTRUCTIONS.
 - 2.3. ALL EQUIPMENT TO BE INSTALLED LEVEL AND PLUMB, PARALLEL OR PERPENDICULAR TO BUILDING ORIENTATION WHERE POSSIBLE.
 - 2.4. GRADE-MOUNTED CONDENSING UNITS AND HEAT PUMPS TO BE INSTALLED ON 4" REINFORCED CONCRETE PAD EXTENDING 4" BEYOND EACH EDGE OF THE EQUIPMENT, OR A MANUFACTURER APPROVED PRE-MANUFACTURED BASE.
 - 2.5. APPROPRIATE ATTENTION SHALL BE GIVEN TO INDOOR AIR QUALITY THROUGHOUT CONSTRUCTION; PROTECT INSIDE OF NEW DUCTWORK & AIR-HANDLING EQUIPMENT FROM DUST, DIRT, DEBRIS, PAINT, MOISTURE, ETC. INSULATION SHALL BE REPLACED IF EXPOSED TO MOISTURE. AN INDEPENDENT PROFESSIONAL DUCT CLEANING COMPANY SHALL CLEAN ALL NEW DUCTWORK IF EQUIPMENT WAS USED DURING CONSTRUCTION, AND EQUIPMENT/COILS SHALL ALSO BE THOROUGHLY CLEANED.
 - 2.6. FIELD COORDINATE LOCATIONS OF ALL DIFFUSERS, GRILLES, REGISTERS, ETC. WITH LIGHT FIXTURE LOCATIONS AND ADJUST AS NECESSARY.
3. **EQUIPMENT**
 - 3.1. ALL EQUIPMENT SHOWN ON MECHANICAL PLANS SHALL BE PROVIDED & INSTALLED BY MECHANICAL CONTRACTOR UNLESS NOTED OTHERWISE.
 - 3.2. ALL EQUIPMENT MUST PROVIDE PERFORMANCE AS SPECIFIED ON PLANS. WHERE SPECIFIC MANUFACTURERS AND/OR MODELS ARE INDICATED ON PLANS, CONTRACTOR TO PROVIDE MODEL INDICATED OR APPROVED EQUAL. VERIFY SUBSTITUTION APPROVAL PRIOR TO PURCHASE OR INSTALLATION OF EQUIPMENT.
 - 3.3. CONTRACTOR TO SUPPLY SUBMITTALS FOR ALL EQUIPMENT FOR REVIEW BY ARCHITECT AND ENGINEER. FORMAL APPROVAL SHALL BE RECEIVED BY CONTRACTOR PRIOR TO EQUIPMENT PURCHASE.
 - 3.4. CONTRACTOR TO SHARE APPROVED EQUIPMENT SUBMITTALS WITH ANY PERTINENT ELECTRICAL OR PLUMBING REQUIREMENTS WITH RESPECTIVE CONTRACTORS WITHIN TWO WEEKS OF RECEIVING APPROVED SUBMITTALS FROM ARCHITECT/ENGINEER.
 - 3.5. ALL EQUIPMENT SHOWN ON PLANS SHALL BE INSTALLED PER MANUFACTURER'S SPECIFICATIONS WITH ADEQUATE ACCESS AND CLEARANCE FOR SERVICING OR REPLACEMENT.
 - 3.6. ALL HORIZONTAL FURNACES WITH AC COILS SHALL BE EQUIPPED WITH CORROSION RESISTANT DRAIN PAN. DRAIN PAN TO DISCHARGE TO SANITARY WASTE VIA INDIRECT CONNECTION WITH AIR GAP. DRAIN PAN TO PROVIDE SECONDARY OVERFLOW OR FLOAT SWITCH INTERLOCKED WITH UNIT TO SHUT DOWN UNIT ON HIGH WATER SIGNAL.
 - 3.7. ALL EXTERIOR REFRIGERANT COILS TO BE PROTECTED BY FACTORY EQUIPPED HAIL GUARDS.
 - 3.8. REFRIGERANT PIPING TO BE ACR COPPER OR TYPE L COPPER.
 - 3.9. ALL AIR HANDLING EQUIPMENT SHALL BE EQUIPPED WITH MERV-8 FILTRATION AT RETURN OPENING UNLESS OTHERWISE NOTED.
 - 3.10. ALL AIR FILTERS SHALL BE SIZED FOR A MAXIMUM FACE VELOCITY OF 500FPM.
 - 3.11. PROVIDE & INSTALL ALL EQUIPMENT FLUES/VENTS PER MANUFACTURER'S SPECIFICATIONS. TERMINATIONS SHALL BE AT LEAST 10' FROM ANY FRESH AIR INTAKE.
 - 3.12. PROVIDE NEW AIR FILTERS IN ALL EQUIPMENT PRIOR TO TESTING & BALANCING AND BEFORE TURNING OVER SYSTEM(S) TO OWNERSHIP.
 - 3.13. IF ANY EXISTING EQUIPMENT IS TO BE REUSED, CLEAN AND INSPECT EQUIPMENT PRIOR TO BEGINNING WORK. VERIFY THAT EQUIPMENT IS IN GOOD WORKING CONDITION, REPORT ANY DEFICIENCIES TO ENGINEER.
4. **DUCTWORK**
 - 4.1. DUCTWORK TO BE GALVANIZED STEEL, SEAL CLASS B, CONSTRUCTED PER SMACNA STANDARDS.
 - 4.2. DUCTWORK THICKNESS:
 - 4.2.1. 26 GA. MINIMUM UP TO 16" DUCT
 - 4.2.2. 24 GA. UP TO 20"
 - 4.2.3. 22 GA. UP TO 24"
 - 4.2.4. 20 GA. UP TO 28"
 - 4.2.5. 18 GA. UP TO 36"
 - 4.3. TURNING VANES SHALL BE PROVIDED AND INSTALLED AT ALL 90° BENDS AND TEES.
 - 4.4. ALL DUCT DIMENSIONS LISTED ARE TO INTERIOR OF DUCT LINER UNLESS NOTED OTHERWISE ON PLANS.
 - 4.5. BALANCE DAMPERS MUST BE PROVIDED TO ALLOW ADJUSTMENT AT EACH AIR TERMINAL.
 - 4.5.1. WHERE BRANCH TAKEOFF IS ACCESSIBLE (ABOVE LAY-IN CEILING OR EXPOSED DUCT), BALANCE DAMPER IS TO BE INSTALLED AT TAKEOFF.
 - 4.5.2. WHERE TAKEOFF IS INACCESSIBLE (IN ATTIC OR SOFFIT), BALANCE DAMPER IS TO BE LOCATED SUCH THAT IT IS ACCESSIBLE FROM FACE OF AIR DEVICE.
 - 4.6. HVAC CONTRACTOR RESPONSIBLE FOR ALL DUCTWORK TRANSITIONS AND FITTINGS AS REQUIRED FOR FINAL CONNECTIONS TO HVAC EQUIPMENT.
 - 4.7. UNLESS NOTED OTHERWISE ON PLANS, FLEXIBLE DUCT CONNECTIONS MAY USED FROM BRANCH DUCTS TO FINAL AIR DEVICES, BUT SHALL NOT EXCEED 8'-0" IN LENGTH. FLEXIBLE DUCT CONNECTORS MUST BE SUPPORTED PER PLAN DETAILS.
5. **INSULATION**
 - 5.1. DUCTWORK
 - 5.1.1. SEE "TYPICAL DUCT INSULATION DIAGRAM" FOR INSTALLATION SPECIFIC REQUIREMENTS.
 - 5.1.2. EXTERNAL DUCT WRAP TO INCLUDE VAPOR BARRIER. EQUAL TO 'JOHNS MANVILLE MICROLITE' WITH FSK JACKET.
 - 5.1.3. WHERE INSULATION IS REQUIRED IN "TYPICAL DUCT INSULATION DIAGRAM", INCLUDE INSULATION ON ALL FITTINGS, INCLUDING CANVAS FLEX CONNECTION FITTINGS.
 - 5.2. REFRIGERANT PIPING
 - 5.2.1. SPLIT SYSTEM (SUCTION LINE ONLY) - 1" CLOSED CELL ELASTOMERIC FOAM (EQUAL TO 'ARMAFLEX AP').
 - 5.3. CONDENSATE PIPING
 - 5.3.1. SPLIT SYSTEMS - WHERE CONDENSATE PIPING IS LOCATED IN UNCONDITIONED SPACE, INSULATE WITH 1/2" ELASTOMERIC. NO INSULATION REQUIRED WITHIN CONDITIONED SPACES.
 - 5.3.2. VRV/VRF - INSULATE WITH 1/2" ELASTOMERIC.



TYPICAL DUCTWORK DETAIL



TYPICAL DUCTWORK FITTINGS DETAIL



DUCT INSIDE THERMAL ENVELOPE INSULATION REQUIREMENTS

- RECTANGULAR
- SUPPLY = 1 1/2" WRAP
 - RETURN = 1 1/2" WRAP
 - EXHAUST = NONE
 - OUTSIDE AIR = 2" WRAP
- ROUND
- SUPPLY = 1 1/2" WRAP
 - RETURN = NONE
 - EXHAUST = NONE
 - OUTSIDE AIR = 2" WRAP
- SPIRAL
- SUPPLY = NONE
 - RETURN = NONE
 - EXHAUST = NONE
 - OUTSIDE AIR = 2" WRAP

TYPICAL BUILDING INTERIOR DUCT INSULATION DIAGRAM

TAG	EQUIPMENT DESCRIPTION	MANUFACTURER (OR EQUAL)	MODEL NUMBER (OR EQUAL)	SIZE (TONS)	TOTAL AIRFLOW (CFM)	HEATING (IA: 70 DB, OA: -5 DB)		COOLING (IA: 80 DB/67 WB, OA: 95 DB)			ELECTRICAL			NOTES
						TOTAL (KBTU)	SENSIBLE (KBTU)	TOTAL (KBTU)	MIN EFF. (SEER2/COP@-5)	VOLTS/PH	MCA	OCP		
FCU-1	FAN COIL UNIT	MITSUBISHI	MSZ-GX18NL	1 1/2	595									
HP-1	HEAT PUMP	MITSUBISHI	MUZ-GX18NLHZ	1 1/2		16.4	14.2	18	22.5/1.78	208/1	23	25-2	1,2,3,4	

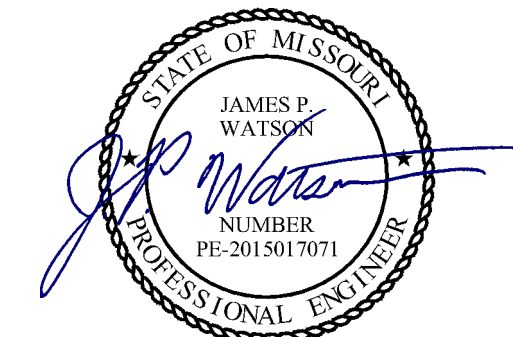
NOTES:

1. PROVIDE AND INSTALL 7 DAY PROGRAMABLE WIRED REMOTE CONTROLLER. COORDINATE EXACT MOUNTING LOCATION WITH OWNER.
2. WITH INTERFACE FOR THIRD PARTY CONTROLLER.
3. WITH WIND BAFFLE.
4. WITH FIELD INSTALLED CONDENSATE PUMP.

AIR DEVICE SCHEDULE						
TAG	SERVICE	MANUFACTURER (OR EQUAL)	MODEL (OR EQUAL)	SIZE	COLOR / FINISH	NOTES
S1	SUPPLY	PRICE	520	8x4	WHITE	
R1	RETURN	PRICE	530	AS INDICATED	WHITE	

NOTES:

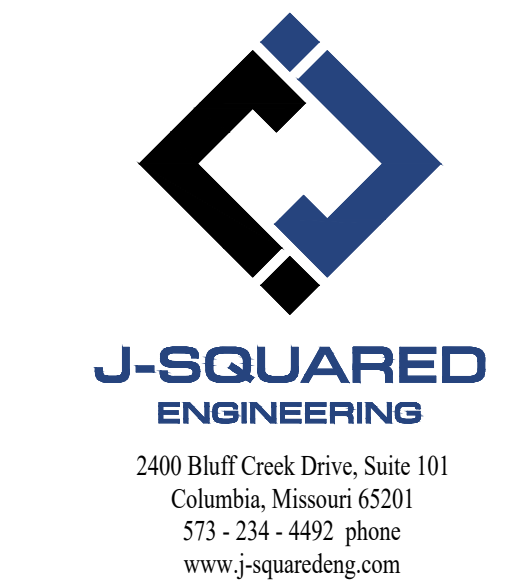
1. VERIFY AIR DEVICE FINISHES WITH OWNER/ARCHITECT PRIOR TO INSTALLATION



James Watson, P.E. December 12, 2025
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REVISION: _____
DATE: _____
ISSUE DATE: 12/12/2025

CAD DWG FILE: J21492
DRAWN BY: DET
CHECKED BY: JPW
DESIGNED BY: JAP

SHEET TITLE:

HVAC DETAILS
& SCHEDULES

SHEET NUMBER:

M501

12/12/2025
23 OF 27 SHEETS

ELECTRICAL PLAN POWER SYMBOL LEGEND

- CIRCUIT WIRING
- CIRCUIT TAG
- JUNCTION BOX
- RECEPTACLE
INDICATES MOUNTING HEIGHT TO BOTTOM OF BOX (STANDARD @ 18" AFF UNLESS NOTED OTHERWISE)
"WP" = WEATHERPROOF OUTDOOR RECEPTACLE
"AW" = ABOVE WINDOW RECEPTACLE
"AC" = ABOVE CEILING RECEPTACLE
"EX" = EXISTING RECEPTACLE TO REMAIN
- GFCI DUPLEX CONVENIENCE RECEPTACLE
- 208V RECEPTACLE
- QUADPLEX CONVENIENCE RECEPTACLE
- USB OUTLET
WITH USB-A & USB-C CHARGING PORT
- DATA / PHONE JACK
BOX WITH 1" CONDUIT & PULL STRING) UP TO CEILING SPACE (STANDARD @ 18" AFF UNLESS NOTED OTHERWISE)
- WIRELESS ACCESS POINT, CEILING MOUNTED
- FLOOR RECEPTACLE
- FLOOR DATA
- DISCONNECT
- TIE INTO EXISTING
- SMOKE DETECTOR (120V)
- CARBON DIOXIDE (120V)

ELECTRICAL PLAN GENERAL NOTES:

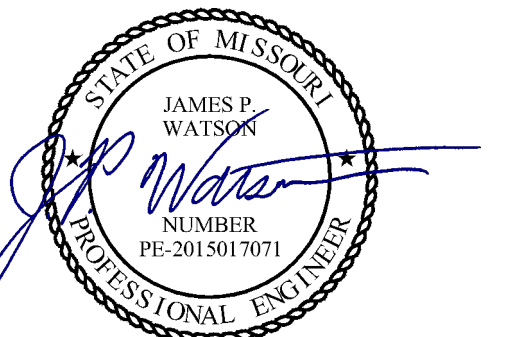
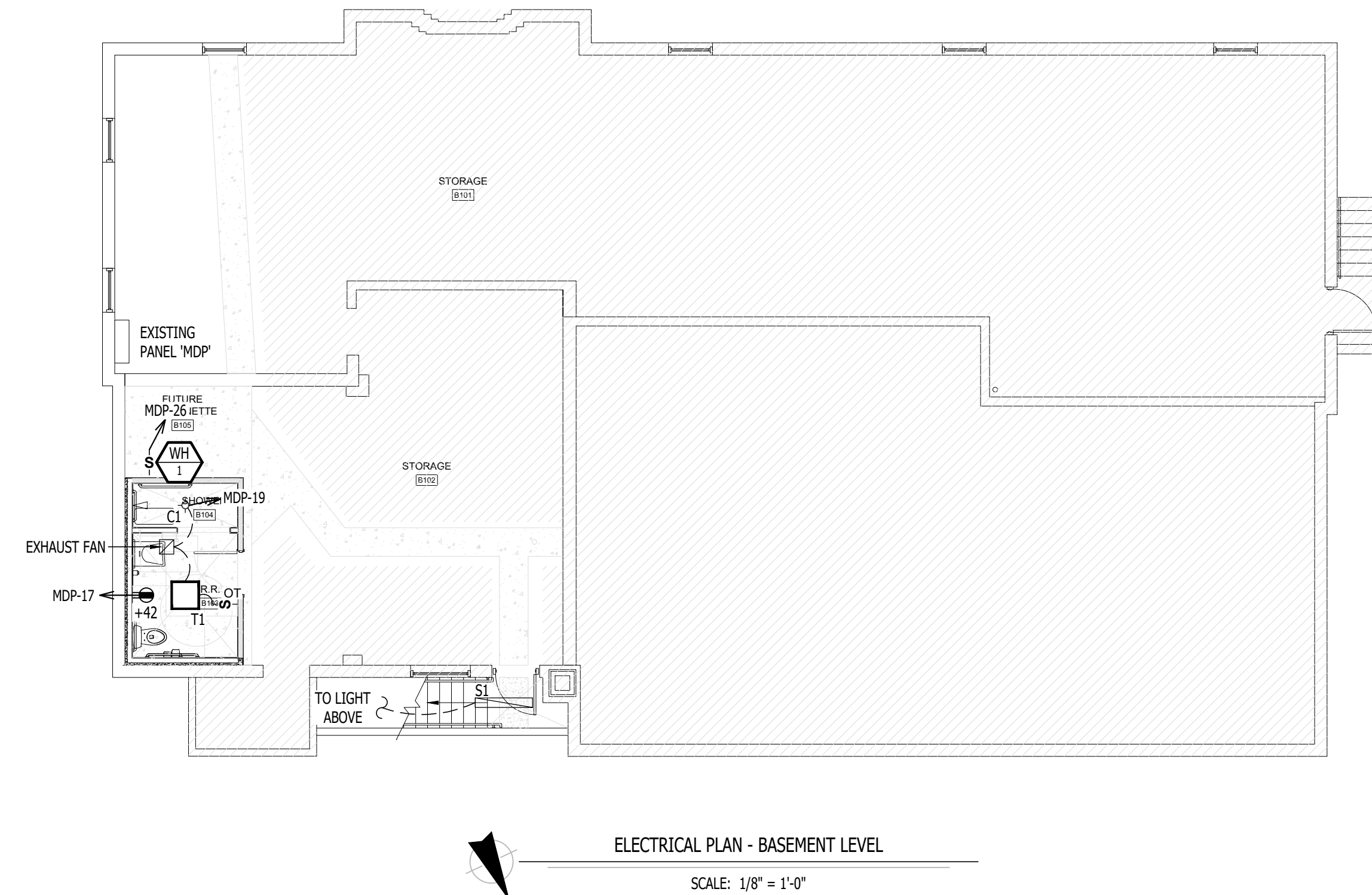
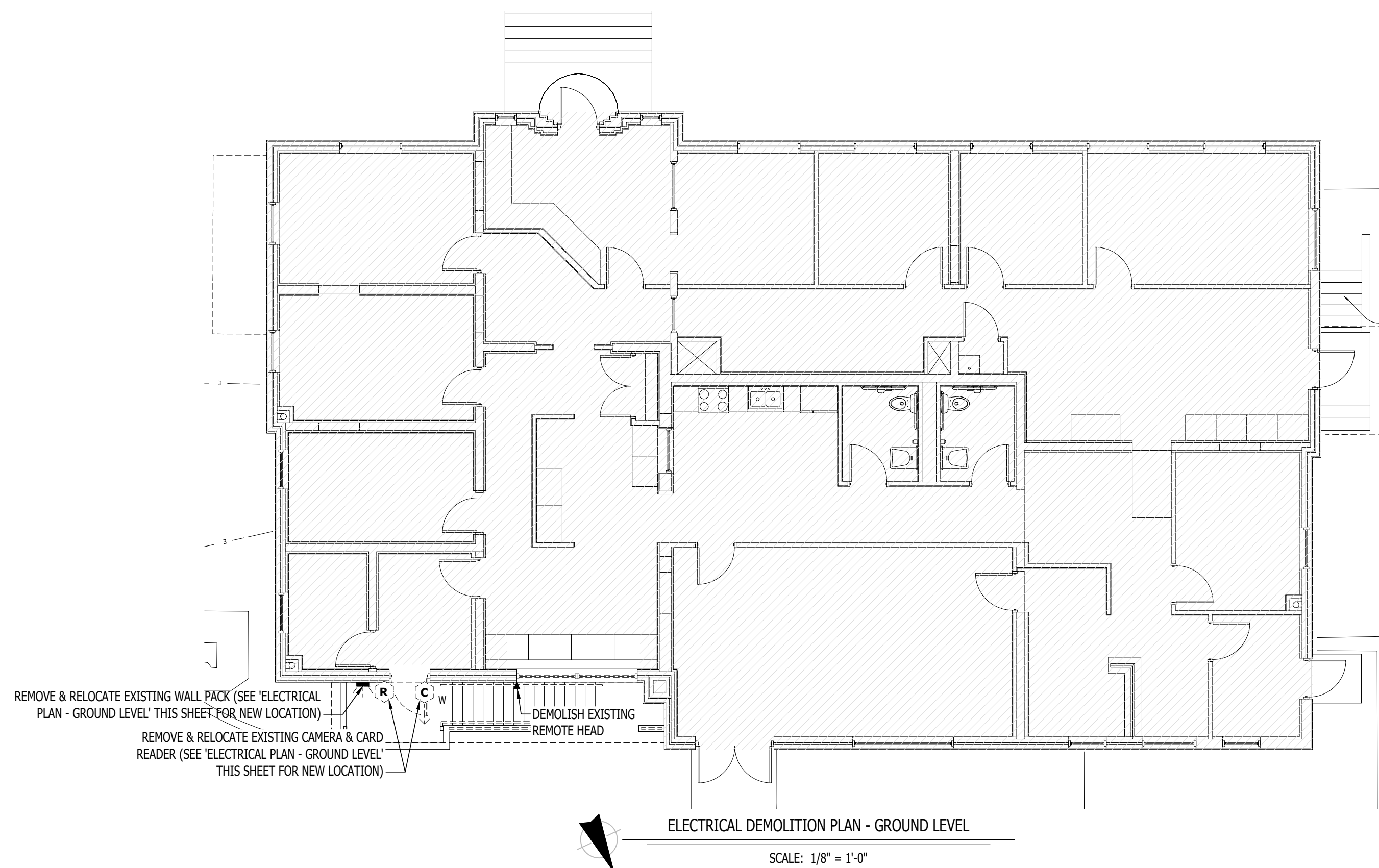
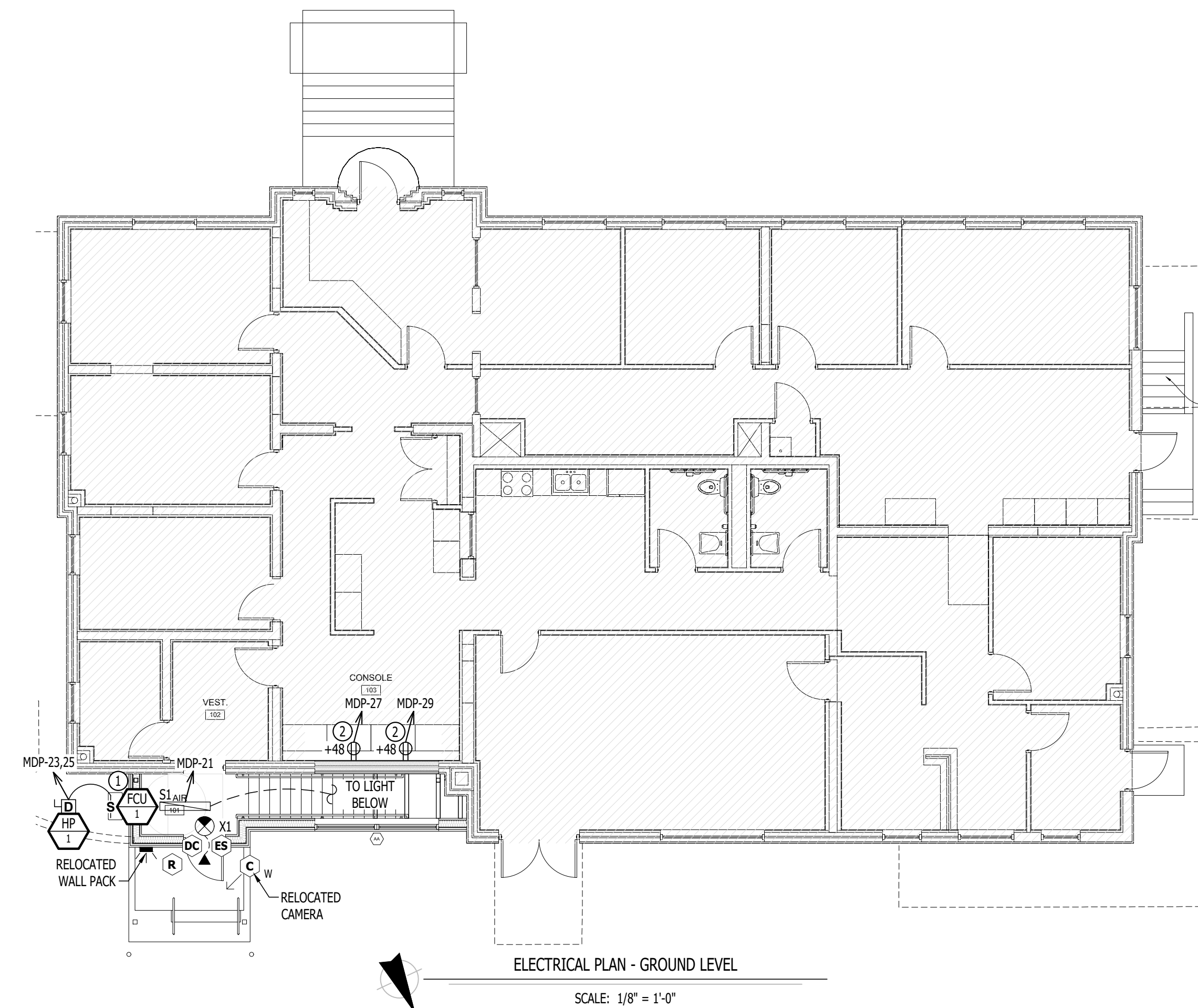
1. REFER TO SHEET E501 FOR ADDITIONAL ELECTRICAL NOTES, DETAILS, REQUIREMENTS, AND SCHEDULES.
2. OCCUPANCY/VACANCY SENSOR QUANTITIES AND GENERAL LOCATIONS SHOWN FOR REFERENCE ONLY. CONTRACTOR TO PROVIDE & INSTALL SENSOR WITH SPACING PER MANUFACTURER'S SPECIFICATIONS AND INCLUDE ADDITIONAL SENSORS IF NECESSARY. CEILING-MOUNTED SENSORS SHALL BE INSTALLED WITHIN MANUFACTURER'S ACCEPTABLE MOUNTING HEIGHT RANGE.
3. ELECTRICAL CONTRACTOR SHALL REVIEW ALL PROJECT DOCUMENTS AND COORDINATE LOCATION OF ALL ELECTRICAL EQUIPMENT, WIRING, HANGERS / SUPPORTS, ETC. WITH HVAC AND PLUMBING TRADES BEFORE INSTALLATION OF ANY MATERIAL. ADDITIONAL COSTS ASSOCIATED WITH LACK OF COORDINATION WILL NOT BE REIMBURSED.
4. ANY EXISTING ELECTRICAL EQUIPMENT, CIRCUITS, ETC. SHOWN IS FOR REFERENCE ONLY. ELECTRICAL CONTRACTOR TO FIELD VERIFY EXACT EQUIPMENT LOCATIONS, CONDITIONS, ETC. PRIOR TO BEGINNING WORK AND NOTIFY ENGINEER OF ANY DISCREPANCIES.

ELECTRICAL PLAN KEY NOTES:

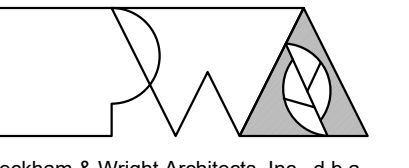
- ① FAN COIL UNIT (FCU-1) WIRED THRU OUTDOOR UNIT (HP-1). COORDINATE WITH HVAC CONTRACTOR.
- ② RECEPTACLE SHALL BE SURFACE MOUNTED.

ELECTRICAL PLAN LIGHTING SYMBOL LEGEND

- "X1" INDICATES FIXTURE TYPE (REFER TO SCHEDULE)
LIGHTING FIXTURE
- "EM" INDICATES EMERGENCY BATTERY BACKUP
"NL" INDICATES UN-SWITCHED NIGHT LIGHT
- EXIT LIGHT
- INDICATES REQUIRED REMOTE HEAD
- EMERGENCY EGRESS LIGHT
- SWITCH (WALL MOUNTED)
SWITCH TYPE:
• 3 = 3-WAY
• 4 = 4-WAY
• OP = PASSIVE INFRARED OCCUPANCY SENSOR
• OU = ULTRASONIC OCCUPANCY SENSOR
• OT = DUAL-TECHNOLOGY OCCUPANCY SENSOR
• VP = PASSIVE INFRARED VACANCY SENSOR
• VU = ULTRASONIC VACANCY SENSOR
• VT = DUAL-TECHNOLOGY VACANCY SENSOR
• M = MOMENTARY SWITCH
• SS = SCENE SWITCH
- DIMMER SWITCH (WALL MOUNTED)
SWITCH TYPE:
• SEE "SWITCH (WALL MOUNTED)" FOR TYPE DESIGNATIONS
- SWITCH (CEILING MOUNTED)
SWITCH TYPE:
• SEE "SWITCH (WALL MOUNTED)" FOR TYPE DESIGNATIONS

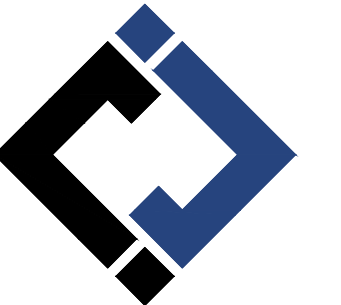


James Watson, P.E. December 12, 2025
PE-2015017071
MO Certificate of Authority # 2018029680



Peckham & Wright Architects, Inc., d.b.a.
PWArchitects, Inc.
2120 Forum Blvd., Ste. 101
Columbia, Missouri 65203
PWArchitects.com | 573.449.2683

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**J-SQUARED
ENGINEERING**
2400 Bluff Creek Drive, Suite 101
Columbia, Missouri 65201
573 - 234 - 4492 phone
www.j-squareeng.com

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SHEET TITLE:

ELECTRICAL
PLAN

SHEET NUMBER:

E101

12/12/2025
24 OF 27 SHEETS

ELECTRICAL SPECIFICATIONS

1. **GENERAL**
 - 1.1. CONTRACTOR IS RESPONSIBLE TO PROVIDE ALL NECESSARY PIECES AND COMPONENTS TO PROVIDE A COMPLETE AND COMPLIANT ELECTRICAL SYSTEM UNLESS OTHERWISE NOTED ON PLANS.
 - 1.2. THE ENTIRE ELECTRICAL SYSTEM SHALL BE CONTINUOUSLY GROUNDED. EVERY BRANCH CONDUIT SHALL INCLUDE A GREEN GROUND CONDUCTOR SIZED PER NEC.
 - 1.3. ARC-FAULT CIRCUITS SHALL BE RUN WITH A DEDICATED NEUTRAL AS REQUIRED BY MANUFACTURER.
 - 1.4. PROVIDE PERMANENT ARC-FLASH LABEL AFFIXED TO EVERY DISCONNECT AND PANEL.
 - 1.5. PROVIDE TYPE WRITTEN PANEL SCHEDULE FOR EACH PANEL.
2. **WORKMANSHIP**
 - 2.1. ALL ELECTRICAL SYSTEM COMPONENTS SHALL BE INSTALLED LEVEL, PLUMB, AND PARALLEL/PERPENDICULAR TO BUILDING ORIENTATION WHERE POSSIBLE.
 - 2.2. ALL ELECTRICAL DEVICES AND LIGHT FIXTURES SHALL BE INSTALLED IN A SAFE, FIRST-CLASS MANNER WITH ATTENTION GIVEN TO OVERALL AESTHETICS. CARE SHOULD BE TAKEN TO ALLOW FOR FUTURE REPLACEMENT AND ACCESS FOR SERVICE.
3. **MATERIALS**
 - 3.1. CONDUIT & CONDUCTORS
 - 3.1.1. ALL CONDUCTORS SIZES INDICATED ARE COPPER UNLESS NOTED OTHERWISE ON PLANS.
 - 3.1.2. MINIMUM CONDUCTOR SIZE SHALL BE #12 AWG UNLESS NOTED OTHERWISE. 120-VOLT, 20-AMP CIRCUITS WITH CONDUCTOR LENGTHS GREATER THAN 100' SHALL BE #10 AWG MINIMUM. ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR MEASURING ACTUAL CONDUCTOR LENGTH AND INCREASING CONDUCTOR SIZE TO COMPENSATE FOR VOLTAGE DROP AS REQUIRED BY NEC.
 - 3.1.3. EXPOSED CONDUIT SHALL BE PAINTED TO MATCH ADJACENT SURFACES, VERIFY COLOR WITH ARCHITECT/OWNER.
 - 3.2. DEVICES
 - 3.2.1. CONTRACTOR TO PROVIDE J-BOXES, COVER PLATES, AND ANY ACCESSORIES REQUIRED TO PROVIDE A COMPLETE SYSTEM. SEE ARCHITECTURAL PLANS FOR DEVICE COLORS.
 - 3.2.2. DUPLEX RECEPTACLES SHALL BE TAMPER RESISTANT, 20-AMP, EQUAL TO LEVITON #TBR-20. SINGLE POLE TOGGLE WALL SWITCHES SHALL BE EQUAL TO LEVITON CS120-2. THREE-WAY TOGGLE WALL SWITCHES SHALL BE EQUAL TO LEVITON CS320-2. DIMMER SWITCHES SHALL BE TESTED WITH FIXTURES AND LAMPS FOR COMPATIBILITY. SEE LIGHTING PLANS FOR DETAILS.
 - 3.2.3. WHERE GFCI PROTECTION IS SHOWN ON PLANS AND UNLESS OTHERWISE NOTED, PROVIDE A LISTED GFCI-PROTECTED RECEPTACLE WHERE THE RECEPTACLE IS ACCESSIBLE ON PLANS. IF THE RECEPTACLE LOCATION IS NOT ACCESSIBLE AS DEFINED BY NEC, PROVIDE GFCI PROTECTION AT CIRCUIT BREAKER.
 - 3.2.5. DO NOT INSTALL OCCUPANCY/VACANCY SENSORS WITHIN 48" OF HVAC DIFFUSERS/GRILLES OR SIMILAR OBSTRUCTION THAT MAY AFFECT SENSOR FUNCTIONALITY. ALL SENSORS SHALL BE INSTALLED PER MANUFACTURER'S SPECIFICATIONS.
 - 3.2.6. ALL APPLICABLE SWITCHES, RECEPTACLES, CONTROLS, ETC. SHALL BE MOUNTED AT ADA-ACCESSIBLE HEIGHTS.
 - 3.2.7. WIRING DEVICES SHOWN ON PLANS NEXT TO ONE ANOTHER SHALL UTILIZE A SINGLE COVER PLATE UNLESS NOTED OTHERWISE.
 - 3.2.8. WIRING DEVICES SHOWN BACK-TO-BACK ON EACH SIDE OF A WALL SHALL BE OFFSET TO REDUCE SOUND TRANSMISSION.
 - 3.2.9. EACH RECEPTACLE COVER SHALL BE NEATLY AND LEGIBLY LABELED WITH CORRESPONDING PANEL AND CIRCUIT NUMBER FOR CIRCUIT IDENTIFICATION.
 4. **EMERGENCY LIGHTING**
 - 4.1. BRANCH CIRCUIT FEEDING EMERGENCY FIXTURE(S) SHALL BE SAME BRANCH CIRCUIT AS THAT SERVING NORMAL LIGHTING IN SAME AREA AND CONNECTED AHEAD OF ANY LOCAL SWITCHES.
 - 4.2. EMERGENCY LIGHTING SYSTEM SHALL PROVIDE 1FC AVERAGE AND 0.1FC MINIMUM ALONG EGRESS PATHS. ADJUST ANY EMERGENCY FIXTURES AS NECESSARY TO PROVIDE PROPER ILLUMINATION WITHOUT OBSTRUCTION FROM FURNITURE OR OBSTACLES.

LIGHT FIXTURE SCHEDULE											
TAG	MANUFACTURER (OR EQUAL)	MODEL NUMBER (OR EQUAL)	DESCRIPTION	MOUNTING	LUMEN OUTPUT	CCT (°K)	CRI	VOLTA GE	WATTS	DIMMING	NOTES
T1	METALUX	22FP4735C	2x2 LED FLAT PANEL	ACT GRID / SURFACE	4641	3500	80	120	39	0-10V	
C1	HALO	SLD612-8-35-WH-UNV	6" ROUND LED CAN	SURFACE	1200	3500	80	120	15	120V	
EF	BROAN	QTXEG110X	EXHAUST FAN	ACT GRID					36		

NOTES:

1. VERIFY LIGHT FIXTURE FINISHES WITH OWNER / ARCHITECT PRIOR TO INSTALLATION.
2. REFER TO ARCHITECTURAL REFLECTED CEILING PLAN FOR CEILING TYPES THROUGHOUT. COORDINATE EXACT MOUNTING DETAILS WITH GENERAL CONTRACTOR.

BRANCH CIRCUIT CONDUCTOR SCHEDULE						
AMPACITY	COPPER A WG SIZE	MAXIMUM DISTANCE (FEET)				MINIMUM CONDUIT SIZE
		1Ø		3Ø		
		120V	277V	208V	480V	
20	12	55'	130'	115'	260'	1/2"
	10	90'	205'	180'	415'	3/4"
30	10	60'	135'	120'	275'	3/4"
	8	95'	220'	190'	445'	1"
35	8	80'	190'	165'	380'	1"
	6	130'	300'	260'	605'	1"
40	8	70'	165'	145'	330'	1"
	6	110'	260'	225'	525'	1"
45	6	100'	235'	200'	470'	1"
	4	160'	370'	325'	750'	1-1/4"
50	6	90'	210'	180'	420'	1-1/4"
	4	145'	335'	290'	675'	1-1/4"
60	6	75'	175'	150'	350'	1-1/4"
	4	120'	280'	240'	560'	1-1/4"
70	4	105'	240'	205'	480'	1-1/4"
	3	130'	300'	260'	605'	1-1/4"
80	4	55'	210'	180'	420'	1-1/4"
	3	90'	260'	230'	530'	1-1/4"
90	3	105'	245'	210'	490'	1-1/4"
	2	130'	300'	260'	600'	1-1/4"
100	2	115'	270'	235'	540'	1-1/4"
	1	140'	330'	285'	660'	1-1/4"

NOTES:

1. ALL BRANCH CIRCUIT CONDUCTORS SHALL BE COPPER. ALL WIRE SIZES SHOWN ARE BASED ON CONDUCTOR TEMPERATURE RATING OF 60°C & AMBIENT TEMPERATURE OF 30°C PER NEC.
2. DISTANCE SHOWN ABOVE IS LENGTH FROM OVERCURRENT PROTECTION TO DEVICE/EQUIPMENT.
3. REFER TO PLAN SHEETS FOR BRANCH CONDUCTOR SIZING LENGTHS GREATER THAN SHOWN ABOVE.
4. VOLTAGE DROP CALCULATIONS BASED ON 3% DROP, 80% CIRCUIT LOAD, THHN/THWN INSULATION, 100% POWER FACTOR, BALANCED LOAD, NEGLIGIBLE REACTANCE, & SIX OR LESS CURRENT-CARRYING CONDUCTORS IN RACEWAY.

FEEDER CONDUCTOR SCHEDULE								
AMPACITY	# OF SETS	CONDUCTORS				EQUIPMENT GROUND		MINIMUM CONDUIT SIZE (PER SET)
		QUANTITY PER SET		A WG SIZE		A WG SIZE		
		3Ø WYE	1Ø OR 3ØA	COPPER	ALUMINUM	COPPER	ALUMINUM	
30	1	4	3	10	8	10	8	3/4"
40	1	4	3	8	8	8	8	1"
45	1	4	3	8	6	8	8	1"
50	1	4	3	8	6	10	8	1"
60	1	4	3	6	4	10	6	1"
70	1	4	3	4	2	8	6	1-1/4"
80	1	4	3	4	2	8	6	1-1/4"
90	1	4	3	3	2	8	6	1-1/4"
100	1	4	3	3	1	8	6	1-1/4"
110	1	4	3	2	1/0	6	4	1-1/4"
125	1	4	3	1	2/0	6	4	2"
150	1	4	3	1/0	3/0	6	4	2"
175	1	4	3	2/0	4/0	6	4	2"
200	1	4	3	3/0	250	6	4	2-1/2"
225	1	4	3	4/0	300	4	2	2-1/2"
250	1	4	3	250	350	4	2	3"
300	1	4	3	350	500	4	2	4"
350	1	4	3	400	600	3	1	4"
400	1	4	3	500	750	3	1	4"
500	2	4	3	250	350	2	1/0	4"
600	2	4	3	350	500	1	2/0	4"
800	2	4	3	500	750	1/0	3/0	4"
1000	3	4	3	400	350	2/0	4/0	4"
1200	4	4	3	350	500	3/0	250	4"
1600	5	4	3	400	750	4/0	350	4"
2000	6	4	3	400	750	250	400	4"

NOTES:

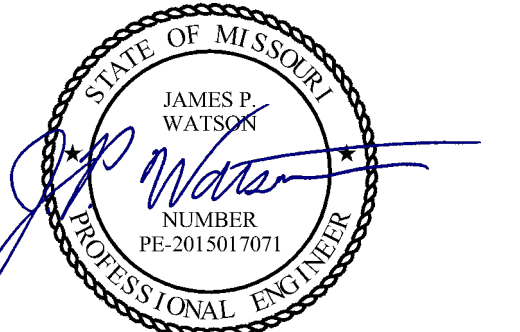
1. ALL WIRE SIZES SHOWN ARE BASED ON CONDUCTOR TEMPERATURE RATING OF 75°C & AMBIENT TEMPERATURE RATING OF 30°C PER NEC.
2. MAXIMUM ALLOWABLE VOLTAGE DROP FOR FEEDER CONDUCTORS SHALL BE 2%.
3. ELECTRICAL CONTRACTOR TO ADJUST CONDUCTOR SIZES FOR LONG CIRCUIT LENGTHS & AMBIENT TEMPERATURES HIGHER THAN 30°C.

EXISTING PANEL 'MDP' SCHEDULE									
PANEL SPECIFICATIONS							TOTAL ADDED LOAD		
VOLTAGE: 120/208V 3-PH		NEMA RATING: 1		PANEL MOUNTING: SURFACE			PHASE "A" LOAD: 33.5 AMPS		
AMPACITY: 400A MCB		AIC-RATING: 10kA					PHASE "B" LOAD: 3.5 AMPS		
							PHASE "C" LOAD: 22 AMPS		
CIRCUIT NUMBER	DESCRIPTION	BREAKER SIZE	AMPS	PHASE	AMPS	BREAKER SIZE	DESCRIPTION	CIRCUIT NUMBER	
1	EXISTING	50-2		A		50-2	EXISTING	2	
3	-	-		B		-	-	4	
5	EXISTING	30-2		C		40-2	EXISTING	6	
7	-	-		A		-	-	8	
9	EXISTING	20-1		B		20-1	EXISTING	10	
11	EXISTING	20-1		C		30-2	EXISTING	12	
13	EXISTING	30-2		A		-	-	14	
15	-	-		B		20-1	EXISTING	16	
17	BATHROOM OUTLET	20-1	1.5	C		20-1	EXISTING	18	
19	BATHROOM LIGHTING	20-1	2	A		20-1	EXISTING	20	
21	STAIRWELL LIGHTS	20-1	2	B		20-1	EXISTING	22	
23	FAN COIL UNIT / HEAT PUMP	30-2	19	C		20-1	EXISTING	24	
25	-	-	19	A	12.5	20-1	WATER HEATER (WH)	26	
27	RECEPTACLE	20-1	1.5	B		-	BLANK	28	
29	RECEPTACLE	20-1	1.5	C		-	BLANK	30	

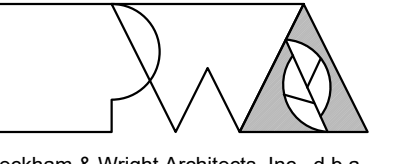
NOTES:

- A: EXISTING PANEL SQUARE D NO
- B: ELECTRICIAN SHALL VERIFY EXACT EQUIPMENT OVERCURRENT PROTECTION REQUIREMENTS PRIOR TO PURCHASE & INSTALLATION OF EQUIPMENT.
- C: AFTER COMPLETION OF WORK, ELECTRICIAN SHALL PROVIDE A TYPE WRITTEN PANEL DIRECTORY IN NEW PANEL.
- D: **BOLD INDICATES NEW CIRCUIT & BREAKER; ITALICS INDICATES EXISTING CIRCUIT & BREAKER TO REMAIN.**

STATE OF MISSOURI
MIKE KEHOE,
GOVERNOR

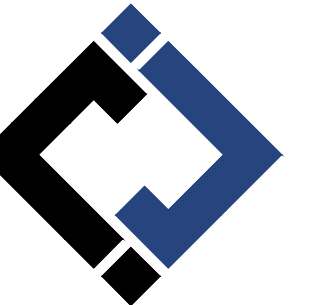


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Peckham & Wright Architects, Inc., d.b.a.
PWArchitects, Inc.
2120 Forum Blvd., Ste. 101
Columbia, Missouri 65203
PWArchitects.com | 573.449.2683

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J-SQUARED ENGINEERING
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573 - 234 - 4492 phone
www.j-squaredeng.com

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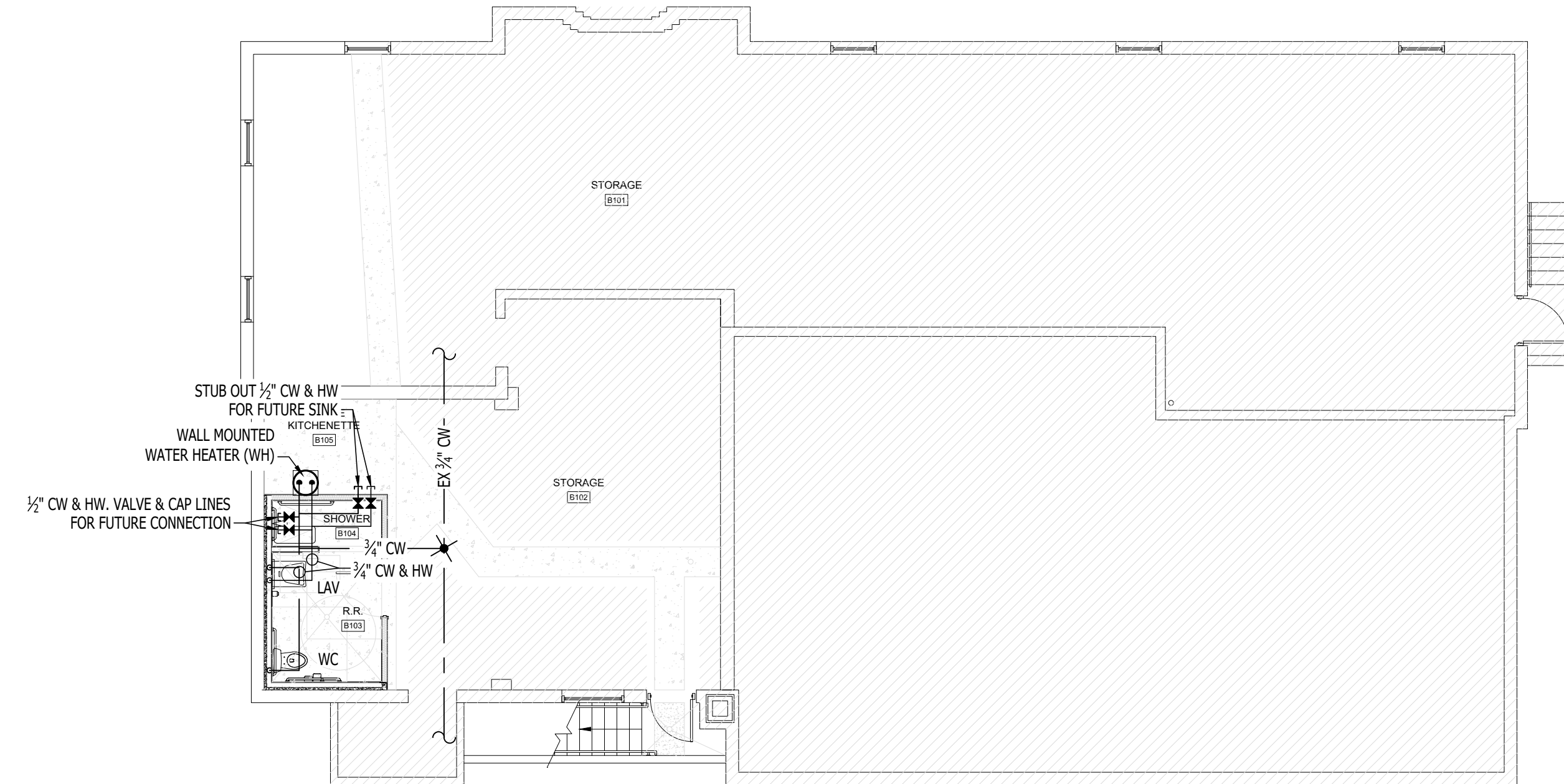
12/12/2025
25 OF 27 SHEETS

WATER & GAS PLAN SYMBOL LEGEND

- — — COLD WATER LINE
- — — HOT WATER LINE
- — — HOT WATER RECIRCULATION LINE
- ⊕ VALVE
- ⊙ PUMP
- ○ — PIPING TURNED DOWN / TURNED UP
- ✕ TIE INTO EXISTING

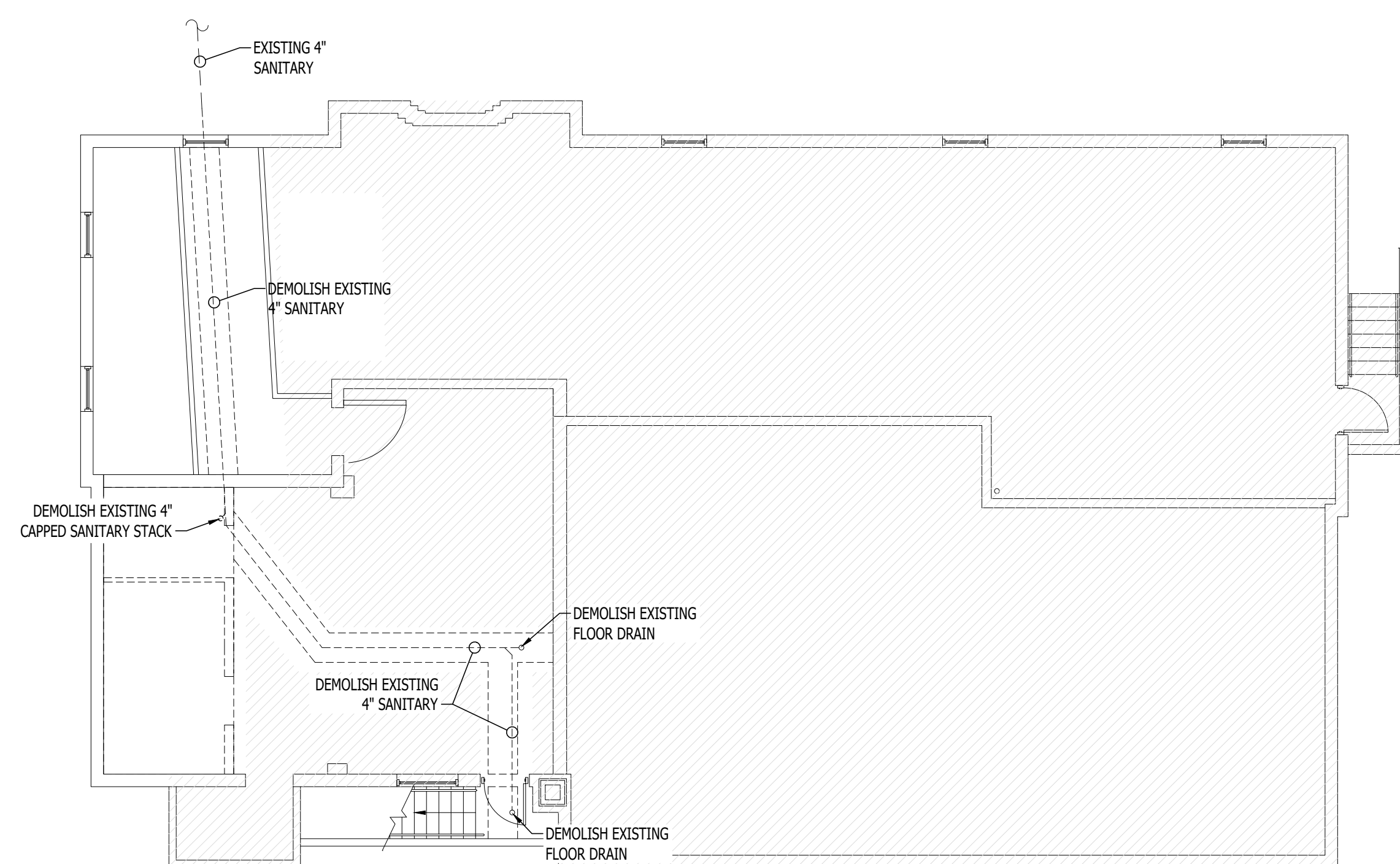
WATER & GAS PLAN GENERAL NOTES:

1. REFER TO SHEET P501 FOR ADDITIONAL PLUMBING NOTES, DETAILS, REQUIREMENTS, AND SCHEDULES.
2. PLUMBING CONTRACTOR SHALL REVIEW ALL PROJECT DOCUMENTS AND COORDINATE LOCATION OF ALL EQUIPMENT, PIPING, HANGERS / SUPPORTS, ETC. WITH HVAC AND ELECTRICAL TRADES BEFORE INSTALLATION OF ANY MATERIAL. ADDITIONAL COSTS ASSOCIATED WITH LACK OF COORDINATION WILL NOT BE REIMBURSED.
3. ANY EXISTING WATER OR GAS PIPING SHOWN IS FOR REFERENCE ONLY. PLUMBING CONTRACTOR TO FIELD VERIFY EXACT PIPING SIZE, LOCATIONS, DEPTH, CONDITION, ETC. PRIOR TO INSTALLATION OF ANY MATERIAL AND NOTIFY ENGINEER OF ANY DISCREPANCIES.



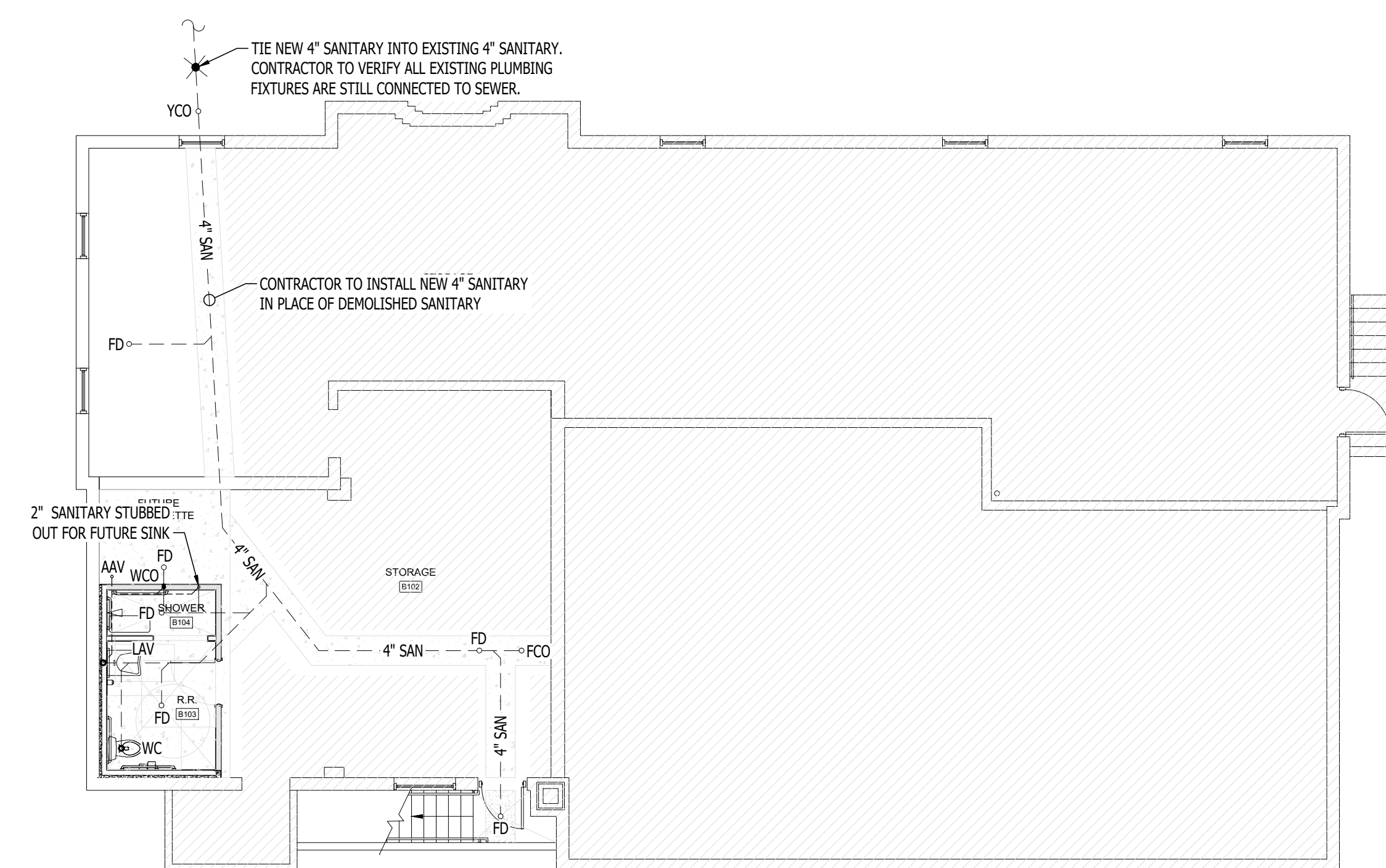
WATER PIPING PLAN - BASEMENT LEVEL

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



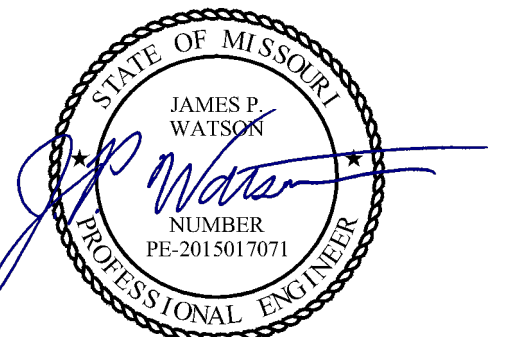
SANITARY SEWER DEMOLITION PLAN - BASEMENT LEVEL

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

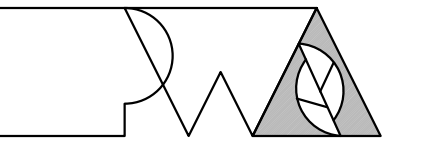


SANITARY SEWER NEW WORK PLAN - BASEMENT LEVEL

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

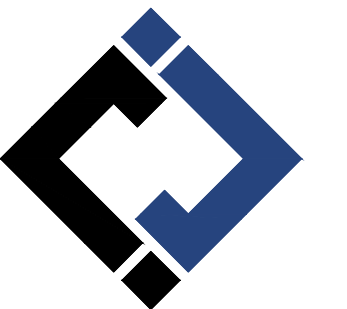


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PLUMBING PLAN

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26 OF 27 SHEETS

PLUMBING SPECIFICATIONS

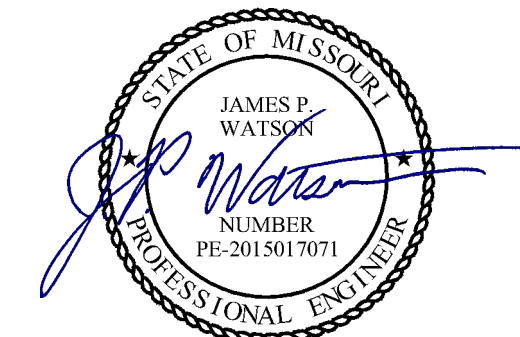
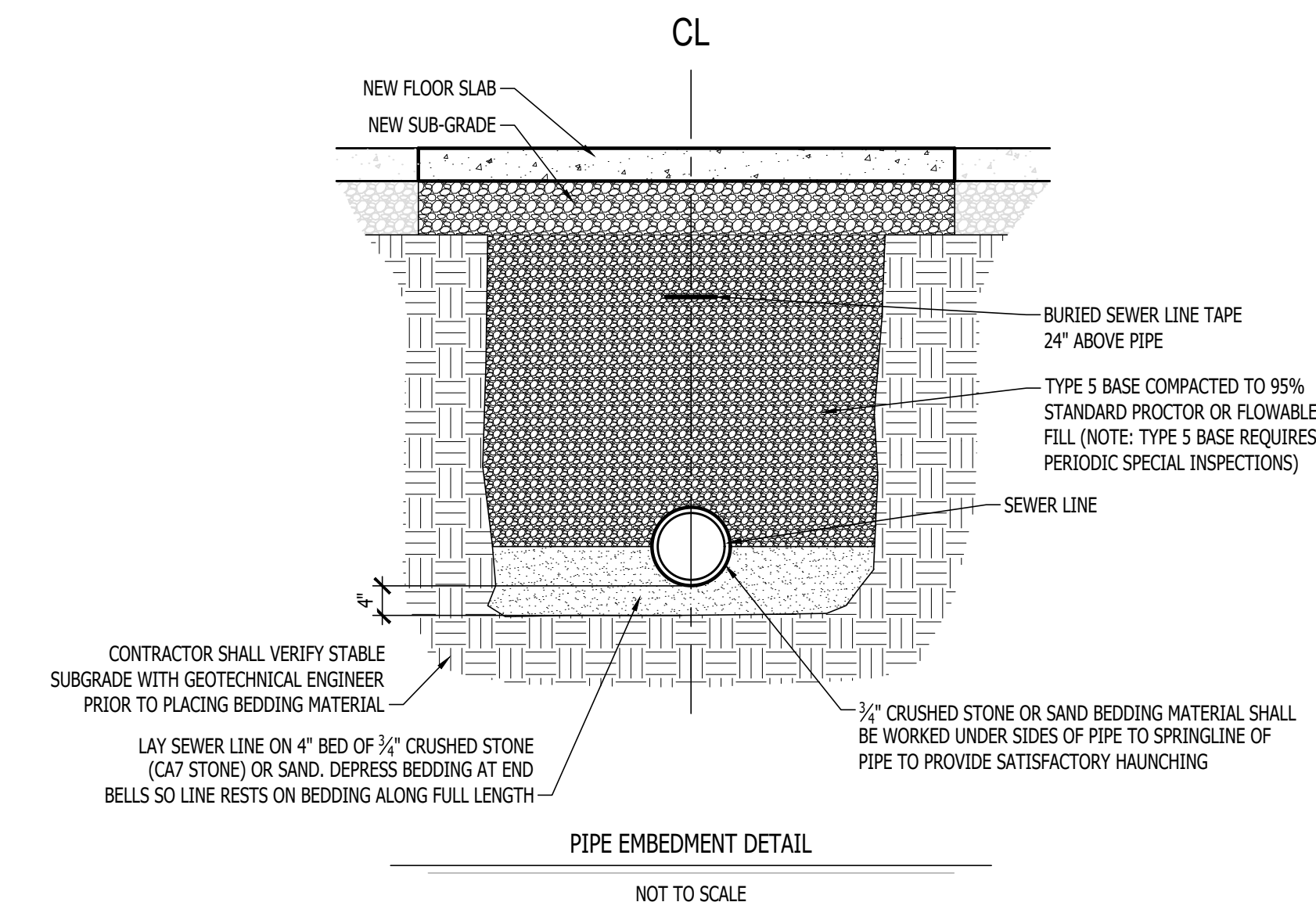
- 1. GENERAL**
 - 1.1. PLUMBING CONTRACTOR IS RESPONSIBLE TO PROVIDE ALL ESCUTCHEONS, ¼ TURN STOPS, P-TRAPS, AND SUPPLY LINES TO PROVIDE A COMPLETE SYSTEM AT EACH FIXTURE INDICATED ON PLANS UNLESS NOTED OTHERWISE.
 - 1.2. ALL PLUMBING SYSTEMS SHALL BE INSTALLED LEVEL, PLUMB, AND PARALLEL/PERPENDICULAR TO BUILDING ORIENTATION WHERE POSSIBLE.
 - 1.3. COORDINATE ALL PIPING INSTALLATIONS WITH STRUCTURAL GRADE BEAMS, FOOTINGS, COLUMN PIERS, ETC. SLEEVE PIPING THRU STRUCTURAL ELEMENTS AS NECESSARY, VERIFY WITH STRUCTURAL ENGINEER.
 - 1.4. VERIFY ALL UTILITY CONNECTION POINTS WITH PROPOSED PLUMBING LAYOUTS PRIOR TO BEGINNING WORK.
 - 1.5. CLEAN ALL PLUMBING FIXTURES AND CHANGE FAUCET AERATORS AND SINK STRAINERS AT PROJECT COMPLETION PRIOR TO TURNING OVER TO OWNERSHIP.
- 2. EQUIPMENT / FIXTURES**
 - 2.1. ALL EQUIPMENT AND/OR FIXTURES MUST MEET OR EXCEED THE PERFORMANCE, FUNCTIONAL INTENT, AND AESTHETICS AS MODELS SPECIFIED ON PLANS. WHERE SPECIFIC MANUFACTURERS AND/OR MODELS ARE INDICATED ON PLANS OR WITHIN SCHEDULES, CONTRACTOR TO PROVIDE MODEL INDICATED OR APPROVED EQUAL. VERIFY SUBSTITUTION APPROVAL PRIOR TO PURCHASE OR INSTALLATION OF EQUIPMENT.
 - 2.2. CONTRACTOR TO SUPPLY SUBMITTALS FOR ALL EQUIPMENT FOR REVIEW BY ARCHITECT AND ENGINEER. FORMAL APPROVAL SHALL BE RECEIVED BY CONTRACTOR PRIOR TO EQUIPMENT PURCHASE.
 - 2.3. CONTRACTOR TO SHARE APPROVED EQUIPMENT SUBMITTALS WITH ANY PERTINENT ELECTRICAL REQUIREMENTS WITH ELECTRICAL CONTRACTORS WITHIN TWO WEEKS OF RECEIVING APPROVED SUBMITTALS FROM ARCHITECT/ENGINEER.
- 3. SANITARY**
 - 3.1. BELOW AND ABOVE GRADE WASTE AND VENT PIPING IN BUILDING TO BE SOLID CORE SCHEDULE 40 PVC LISTED FOR DWV APPLICATIONS.
 - 3.2. NO WASTE OR VENT PIPING INSTALLED BELOW GRADE SHALL BE SMALLER THAN 2".
 - 3.3. MINIMUM SLOPES FOR WASTE PIPING (UNLESS NOTED OTHERWISE ON PLANS):
 - 3.3.1. 2 ½" OR LESS DIAMETER: ¼" PER FOOT
 - 3.3.2. 3" TO 6" DIAMETER: ¼" PER FOOT
 - 3.3.3. 8" OR LARGER DIAMETER: ½" PER FOOT
 - 3.4. ACCESSIBLE FULL PIPE SIZE CLEANOUTS SHALL BE PROVIDED & INSTALLED ON BUILDING SANITARY LINES AT LOCATIONS SHOWN ON PLANS, AT INTERVALS OF NO MORE THAN 100', AT EVERY CHANGE IN DIRECTION GREATER THAN 45°, AND AT THE BASE OF EACH WASTE STACK.
 - 3.5. WASTE AND VENT PIPING IN PLENUMS SHALL BE CAST IRON, PLENUM-RATED CPVC, OR PVC WITH AN INSULATION WRAP LISTED FOR USE AS SUCH AN ASSEMBLY.
 - 3.6. ALL VENT PIPE TERMINATIONS SHALL BE LOCATED EITHER 10' HORIZONTALLY OR 3' ABOVE MECHANICAL AIR INTAKE LOCATIONS. TERMINATIONS SHALL NOT BE INSTALLED UNDER ANY OPERABLE BUILDING OPENING OR OPERABLE ADJACENT BUILDING OPENING. CONTRACTOR TO OFFSET VENT PIPING AS NECESSARY TO MEET THESE REQUIREMENTS.
- 4. DOMESTIC WATER**
 - 4.1. ALL DOMESTIC WATER PIPING TO BE EITHER COPPER OR PEX, SHALL CONFORM TO NSF 61 AND BE LISTED FOR USE IN POTABLE WATER SYSTEMS.
 - 4.1.1. WHERE PEX PIPING IS USED, IT SHALL BE INCREASED ONE PIPE SIZE FROM WHAT IS INDICATED ON PLANS FOR ALL PORTIONS OF DISTRIBUTION SYSTEM.
 - 4.1.2. PEX-A MAY BE INSTALLED AT SIZES INDICATED ON PLANS ONLY IF AN ENGINEERED PLAN IS SUBMITTED SHOWING ACCEPTABLE PRESSURE DROPS AND FLUID VELOCITIES, APPROVAL MUST BE GRANTED PRIOR TO PURCHASE AND INSTALLATION.
 - 4.1.3. COPPER WATER PIPING BELOW GRADE SHALL BE TYPE "K". BELOW GRADE JOINTS SHALL BE SILVER SOLDERED. THERE SHALL BE NO JOINTS IN WATER PIPING LOCATED BENEATH BUILDING SLAB.
 - 4.1.4. COPPER WATER PIPING ABOVE GRADE SHALL BE TYPE "L".
 - 4.2. PROVIDE WATER HAMMER ARRESTORS AT ALL QUICK-CLOSE VALVES. FIXTURES REQUIRING WATER HAMMER ARRESTORS INCLUDE BUT ARE NOT LIMITED TO FLUSH VALVES, SENSOR FAUCETS, AND WASHING MACHINE BOXES. AIR CHAMBERS SHALL NOT BE PERMITTED.
 - 4.3. ALL DOMESTIC WATER PIPING SHALL BE ROUTED WITHIN BUILDING THERMAL ENVELOPE AND WITHIN WALL CAVITIES, ABOVE FINISHED CEILINGS, OR BELOW SLAB TO REMAIN CONCEALED UNLESS OTHERWISE NOTED. NOTIFY ENGINEER OF ANY NECESSARY ADJUSTMENTS THAT REQUIRE PIPING TO BE EXPOSED.
 - 4.4. DOMESTIC WATER PIPING INSULATION
 - 4.4.1. ALL HW & HWV PIPING, WHETHER COPPER OR PEX, SHALL BE INSULATED WITH PLENUM RATED CLOSED CELL ELASTOMERIC INSULATION.
 - 4.4.1.1. FOR PIPING LESS THAN 1½", INSULATION THICKNESS TO BE 1".
 - 4.4.1.2. FOR PIPING 1½" OR GREATER, INSULATION THICKNESS SHALL BE 1½".
 - 4.4.2. CW COPPER PIPING TO INSULATED WITH ½" PLENUM RATED CLOSED CELL ELASTOMERIC INSULATION. CW PEX NEED NOT BE INSULATED UNLESS NOTED OTHERWISE ON PLANS.
- 5. GAS PIPING**
 - 5.1. GAS PIPING SHALL BE INSTALLED LEVEL, PLUMB, AND PARALLEL OR PERPENDICULAR TO BUILDING ORIENTATION WHERE POSSIBLE.
 - 5.2. QUARTER-TURN FULL-PORT SHUTOFF VALVES SHALL BE INCLUDED AT EACH APPLIANCE CONNECTION, AS WELL AS AN IN-LINE REGULATOR FROM DELIVERY PRESSURE TO APPLIANCE OPERATING PRESSURE IF REQUIRED. INCLUDE SEDIMENT TRAPS PER IFGC REQUIREMENTS.
 - 5.3. NATURAL GAS AND LIQUID PROPANE (LP) PIPING TO SHALL BE SCHEDULE 40 BLACK STEEL.
 - 5.4. PIPE JOINTS SHALL BE THREADED WITH CLASS 150 FITTINGS, OR WELDED. NOTIFY OWNER/GC OF ANY NECESSARY HOT-WORK ASSOCIATED WITH WELDED CONNECTIONS.
 - 5.5. WHERE PIPING IS EXPOSED ON EXTERIOR FACE OF BUILDING, PAINT TO MATCH BUILDING. PAINT YELLOW IN ALL OTHER LOCATIONS.
 - 5.6. ON ROOFTOPS, INSTALL GAS PIPE WITH "ROOFTOP BLOX" PER MANUFACTURER'S INSTRUCTION.
- 6. STORM DRAIN PIPING**
 - 6.1. ABOVE AND BELOW GRADE STORM PIPING SHALL BE SOLID CORE SCHEDULE 40 PVC.
 - 6.2. ALL PRIMARY & SECONDARY STORM DRAIN PIPING & FITTINGS SHALL BE INSULATED WITH ½" FIBERGLASS INSULATION WITH ASJ JACKET.
 - 6.3. STORM DRAIN PIPING IN PLENUMS SHALL BE CAST IRON, PLENUM-RATED CPVC, OR PVC WITH AN INSULATION WRAP LISTED FOR USE AS SUCH AN ASSEMBLY.

PLUMBING CONNECTION SIZING SCHEDULE					
FIXTURE	TYPICAL ABBREVIATION	SANITARY PIPING		SUPPLY PIPING	
		WASTE CONNECTION	VENT CONNECTION	COLD WATER CONNECTION	HOT WATER CONNECTION
DRINKING FOUNTAIN	DF	1-1/2"	1-1/4"	1/2"	-
FLOOR DRAIN	FD	3"	2"	-	-
HAND / HAIR SINK	HS / SK	2"	1-1/4"	1/2"	1/2"
HOSE BIBB	HB	-	-	3/4"	-
LAVATORY	LAV	1-1/2"	1-1/4"	1/2"	1/2"
MOP SINK	MS	3"	1-1/2"	1/2"	1/2"
ICE MAKER OUTLET BOX	REF	-	-	1/2"	-
SHOWER	SH	3"	1-1/2"	1/2"	1/2"
URINAL	UR	2"	1-1/4"	3/4"	-
WATER CLOSET (FLUSH TANK)	WC	3"	2"	1/2"	-
WATER CLOSET (FLUSH VALVE)	WC	3"	2"	1"	-

NOTES:
1. SIZES SHOWN ABOVE ARE TYPICAL UNLESS NOTED OTHERWISE ON PLANS

PLUMBING FIXTURE SCHEDULE				
TAG	DESCRIPTION	MANUFACTURER (OR EQUAL)	MODEL (OR EQUAL)	NOTES
AAV	AIR ADMITTANCE VALVE	QATEY	39020	1.5" - 6 DFU MAX
FCO	FLOOR CLEANOUT	ZURN	Z1400	
FD	FLOOR DRAIN	ZURN	Z415-BZ	WITH Z1072 TRAP SEAL
LAV	LAVATORY (WALL HUNG W/MANUAL FAUCET)	AMERICAN STANDARD	0355.012	WITH ZURN Z81104-XL FAUCET, 1/4 TURN STOPS, BRAIDED STAINLESS STEEL SUPPLIES, AND TRUBRO LAV GUARD 2
WC	WATER CLOSET - ADA HEIGHT - TANK	AMERICAN STANDARD	215AA.004	WITH CHURCH 9500SCT SELF SUSTAINING SEAT, STAINLESS BRAIDED SUPPLY, AND 1/4 TURN SHUT-OFF.
WCO	WALL CLEAN OUT	-	-	
WH	WATER HEATER	RUUD	EGSP20	20 GALLON, 120V, 1500W, WITH WALL MOUNT KIT
YCO	YARD CLEAN OUT	ZURN	Z1400	

NOTES:
1. VERIFY NECESSARY FIXTURES MEET ADA REQUIREMENTS WITH ARCHITECT PRIOR TO INSTALLATION.
2. VERIFY FIXTURE FINISHES WITH OWNER / ARCHITECT.



James Watson, P.E. December 12, 2025
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Peckham & Wright Architects an Architectural Corporation
Missouri State Certificate of Authority No. 000244



2400 Bluff Creek Drive, Suite 101
Columbia, Missouri 65201
573 - 234 - 4492 phone
www.j-squaredeng.com

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PLUMBING
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27 OF 27 SHEETS