

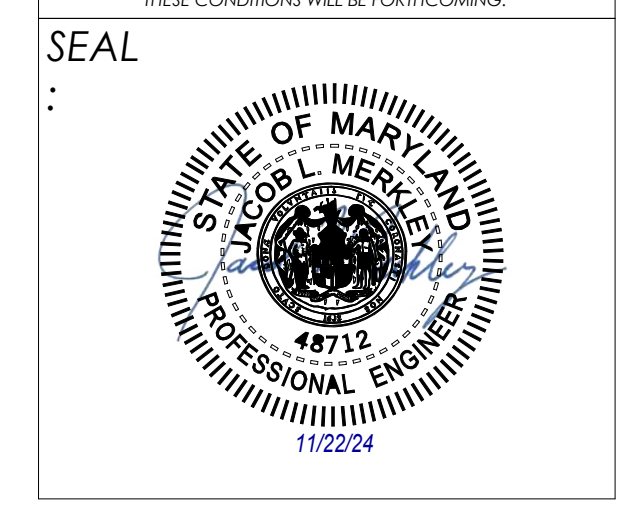


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**MEP ENGINEER:**  
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**CLIENT:**  
**MARYLAND ZOO**  
 THE MARYLAND ZOO IN BALTIMORE  
 1 SAFARI PLACE  
 BALTIMORE, MD 21217

**RED PANDA**  
 THE MARYLAND ZOO  
 IN BALTIMORE  
 1 SAFARI PLACE  
 BALTIMORE, MD 21217

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DATE: JANUARY 14, 2025  
 PROJECT NO: 2023-10.04

DRAWN BY	SDS
CHECKED BY	JLM
SUBMISSION	DATE
BID SET	01/14/2025
REVISION	DATE

**DRAWING TITLE:**  
 ROOF FRAMING PLAN

**DRAWING NO:**  
**S121**

**ROOF FRAMING PLAN NOTES**

- ALL DIMENSIONS SHOWN ON THIS PLAN ARE FOR GENERAL INFORMATION ONLY. CONTRACTOR TO COORDINATE ALL DIMENSIONS WITH ARCHITECTURAL DRAWINGS.
- SEE ARCHITECTURAL DRAWINGS FOR ALL ROOF STEPS AND SLOPES TO DRAINS, ETC.
- CONTRACTOR TO COORDINATE SIZE, LOCATIONS AND SUPPORT OF ALL EQUIPMENT WITH ARCHITECTURAL, MECHANICAL, AND ELECTRICAL DRAWINGS.
- CONTRACTOR IS RESPONSIBLE FOR THE CONSTRUCTION SEQUENCE FOR ALL STRUCTURAL ELEMENTS IN THE PROJECT. CONTRACTOR IS RESPONSIBLE TO PROVIDE ANY SHORING OR BRACING AS NEEDED UNTIL STRUCTURE IS COMPLETE.
- CONTRACTOR SHALL FIELD VERIFY ALL EXISTING STRUCTURAL ELEMENTS, SIZES, DIMENSIONS, LOCATIONS, ETC. ANY DISCREPANCIES SHALL BE REPORTED TO THE ENGINEER.
- CONTRACTOR SHALL FIELD VERIFY THE CONDITION OF EXISTING ELEMENTS. ANY VISIBLE DETERIORATION OR DAMAGE SHALL BE REPORTED TO THE ARCHITECT AND/OR ENGINEER.
- CONTRACTOR SHALL TAKE SPECIAL CARE DURING DEMOLITION NOT TO DAMAGE ANY STRUCTURAL ELEMENT THAT IS TO REMAIN. ANY DAMAGED ELEMENTS MUST BE REPAIRED/REPLACED AT NO ADDITIONAL COST TO OWNER.
- ALL STEEL CABLES AND GUY WIRES SHALL BE GALVANIZED STEEL WITH A 6X19 EIPS CLASSIFICATION WITH GALVANIZED HARDWARE AS REQUESTED BY THE CLIENT.
- ALL MESH USED IN ENCLOSURE FOR ROOF AND WALL IS TO BE DESIGNED BY THE MESH SUPPLIER AND CORRESPONDING CONNECTIONS TO THE SUPER STRUCTURE. ALL MESH SHALL BE INSTALLED WITH NO PRETENSION LOAD INDUCED ON CABLES, COLUMNS, NOR FOUNDATIONS.
- ALL VERTICAL CABLES AT MASTS ARE NOT TO BE PRETENSIONED.
- ALL STEEL SHOWN IN THIS PLAN VIEW AND CONNECTING ELEMENTS ARE TO BE POWDER COATED OR GALVANIZED AS INDICATED BY ARCHITECT AND SPECIFICATIONS.
- SAG DENOTED ON THE DRAWINGS IS THE MINIMUM SAG ACROSS THE CABLE FROM THE LOWEST ANCHOR POINT, TO THE LOWEST POINT ON THE CABLE. SEE E1/S531 FOR DEFINITION OF SAG.

PRE-ENGINEERED TRUSSES (BY MANUFACTURER)  
 ALL ROOF TRUSSES, BOTH PITCHED, FLAT AND CUSTOM SHAPE ARE TO BE DESIGNED FOR THE FOLLOWING SERVICE LOADS (ALL LOADS ARE CONSIDERED SUPERIMPOSED):

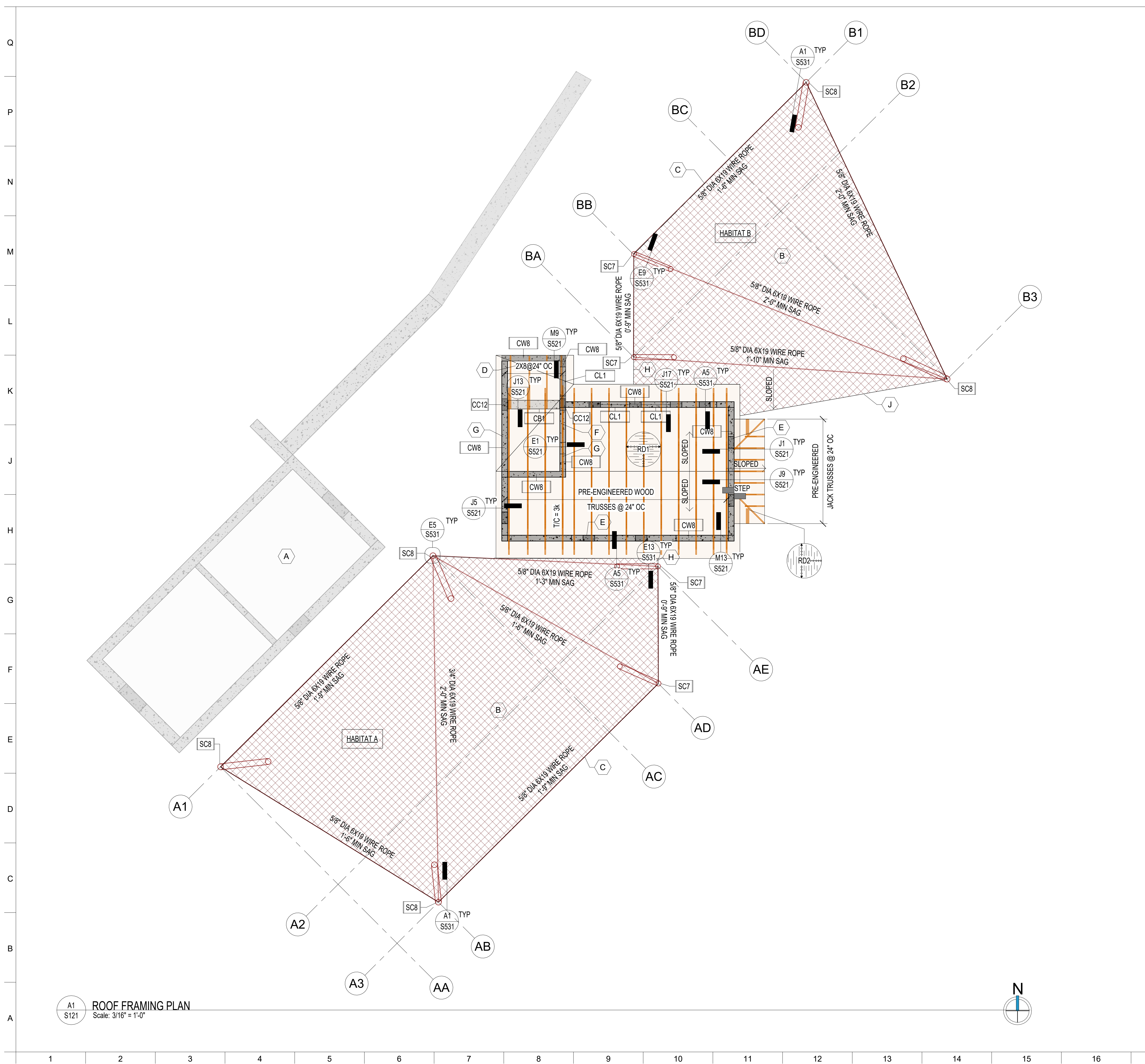
DEAD LOAD (TOP CHORD).....	15 PSF
DEAD LOAD (BOTTOM CHORD).....	10 PSF
ROOF LIVE LOAD.....	20 PSF
FLAT ROOF SNOW LOAD.....	25 PSF + DRIFT
SLOPED ROOF SNOW LOAD.....	25 PSF + UNBALANCED
JACK TRUSS DRIFT SNOW LOAD.....	32 PSF
WIND LOAD (NET UPLIFT).....	20 PSF

TRUSS ELEMENTS MUST ALSO BE DESIGNED FOR ALL NOTED MECHANICAL UNITS (CONFIRM WEIGHT WITH EQUIPMENT PURCHASED), SNOW DRIFTS + UNBALANCED SNOW (AS PER ASCE 7) AS WELL AS ALL SEISMIC TENSION/COMPRESSION (T/C) LOADS NOTED ON THE DRAWINGS.

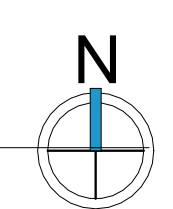
TRUSS MANUFACTURER IS RESPONSIBLE FOR THE DESIGN AND CONSTRUCTION OF ALL TRUSS-TO-TRUSS CONNECTIONS, INCLUDING HANGER, AND OTHER SPECIALTY CONNECTIONS THAT MAY BE REQUIRED.

**KEYNOTES**

A	EXISTING CONCRETE BUILDING
B	MESH ROOF ENCLOSURE (MESH DESIGN AND CONNECTIONS BY OTHERS), MESH DESIGNER TO PROVIDE ADD'L SECONDARY CABLES IF REQUIRED
C	MESH WALL ENCLOSURE (MESH DESIGN AND CONNECTIONS BY OTHERS), TYP
D	SISTER 2X RAFTERS TO EACH TRUSS PER DETAIL
E	AT ANIMAL TRANSFER CHUTE OPENINGS PROVIDE #5 REINFORCING AROUND ENTIRE OPENING WITH FULL LAP SPLICE. SEE DETAIL M1/S501 (TYP).
F	SHEATH TRUSS WITH 15/32" OSB + CENTER ON CONCRETE WALL BELOW
G	SEE ARCH + MEP DRAWINGS FOR CONCRETE WALL PENETRATIONS FOR DUCTING, PIPE, ETC. SEE DETAIL M1/S501
H	MESH DESIGNER TO PROVIDE SECONDARY CLOSURE CABLE TO CONNECTION ROOF /WALL MESH, TYP
J	MESH WALL ENCLOSURE TO ROCKWORK (MESH DESIGN AND CONNECTIONS BY OTHERS), TYP



**A1 S121 ROOF FRAMING PLAN**  
 Scale: 3/16" = 1'-0"



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**SEAL:**  
 STATE OF MARYLAND  
 JACOB L. MERLETTA  
 PROFESSIONAL ENGINEER  
 48712  
 11/2024

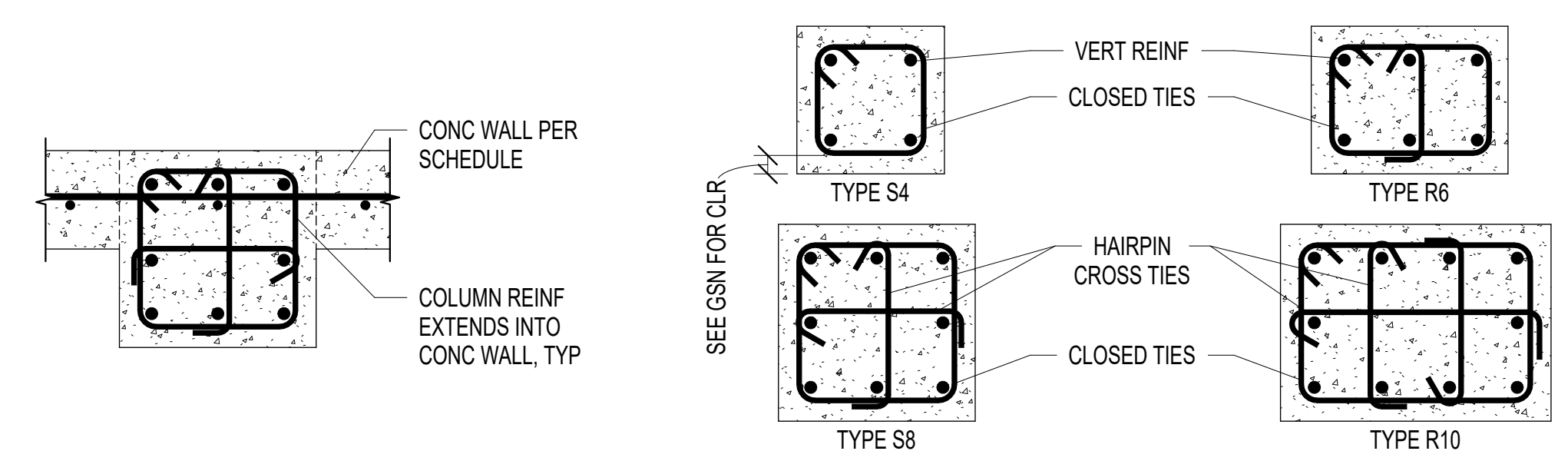
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 CHECKED BY: JLM  
 SUBMISSION: DATE  
 BID SET: 01/14/2025

**DRAWING TITLE:**  
 STRUCTURAL SCHEDULES

**DRAWING NO:**  
 S301

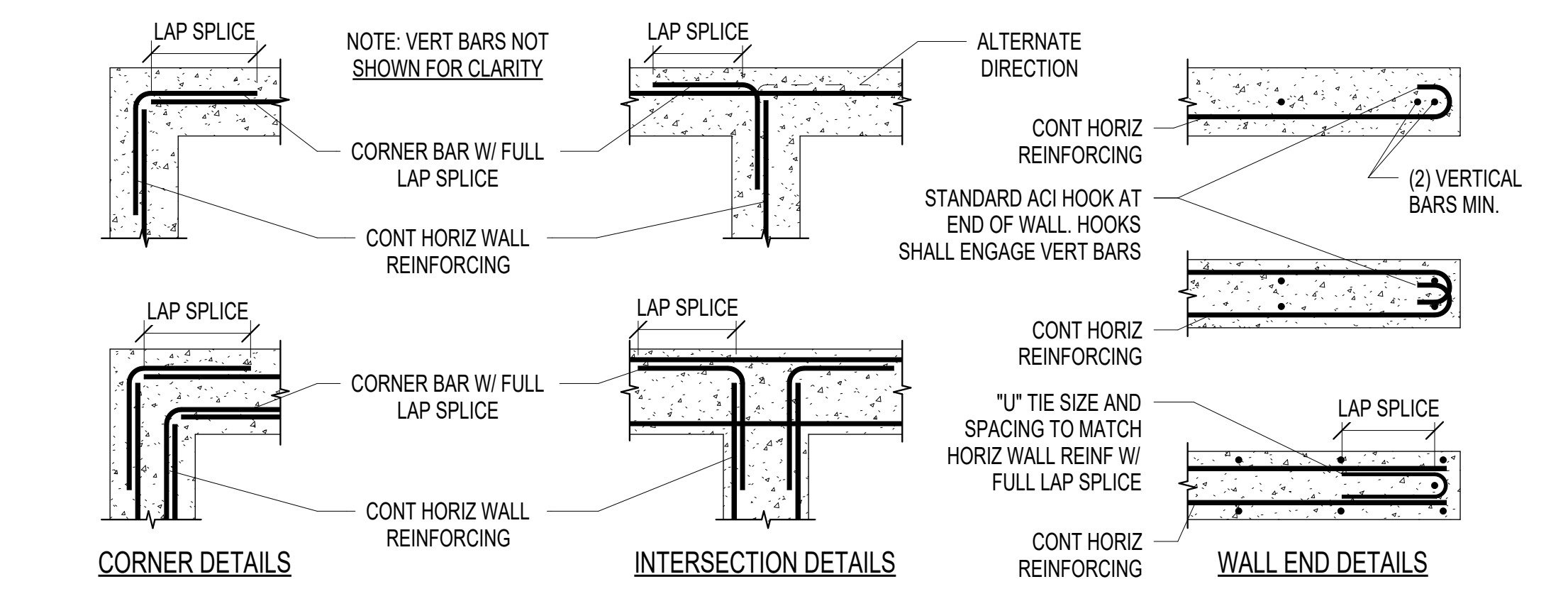
CONCRETE COLUMN SCHEDULE						
CC#	MARK	SIZE	TYPE	COLUMN REINFORCING		COMMENTS
				VERTICAL BARS	TIES	
CC12	8X16	S4	(4) #5	#3@6" OC		

NOTES:  
 1. DESIGNATION "TYPE S# AND R# WHERE # EQUALS THE NUMBER OF VERTICAL REINFORCING BARS.  
 2. ALL PIERS SHALL BE CENTERED ON COLUMN BASE PLATE ABOVE UNLESS NOTED OTHERWISE.  
 3. ALL VERT REINFORCING SHALL BE DOWELED TO FOOTING BELOW WITH SAME SIZE REINFORCING WITH STANDARD 90 DEGREE HOOK.  
 4. TIES SHALL BE PLACED @ 3" OC AROUND ANCHOR BOLTS UNO.  
 5. SEE GENERAL STRUCTURAL NOTES FOR REINFORCING LAYOUT.



CONCRETE COLUMN "INTEGRATED" INTO CONC WALL      CONCRETE COLUMN REINFORCING LAYOUT TYPES

M1 S301 CONCRETE COLUMN SCHEDULE + DETAILS  
 Scale: NTS

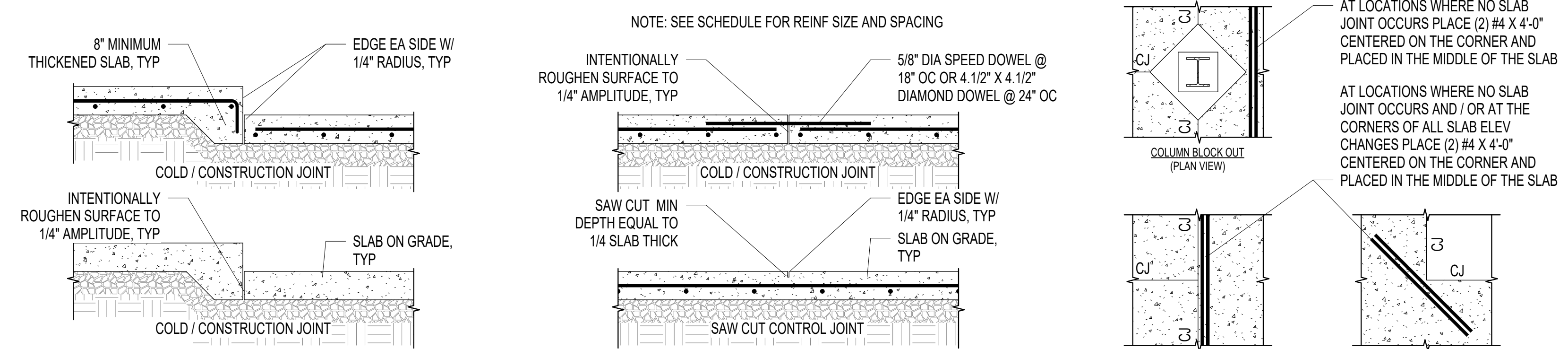


CORNER DETAILS      INTERSECTION DETAILS      WALL END DETAILS      REINFORCED CONCRETE WALL SECTION TYPES

CONCRETE WALL SCHEDULE						
CW#	MARK	WIDTH	TYPE	WALL REINFORCING		COMMENTS
				HORIZONTAL	VERTICAL	
	CW6	6"	TYPE A	#4@12" OC	#4@12" OC	
	CW8	8"	TYPE A	#5@12" OC	#5@12" OC	
	CW8S	8"	TYPE A	#4@12" OC	#4@12" OC	
	CW14	14"	TYPE C	#5@12" OC IF, #4@12" OC OF	#5@12" OC IF, #4@12" OC OF	THERMOMASS

NOTES:  
 1. AT TOP AND BTM OF WALL, INCLUDING ALL DECK BEARING ELEVATIONS PROVIDE (2) #5 CONT IN ADDITION TO SCHEDULED REINFORCING.  
 2. OUTSIDE FACE OF REINFORCING DESIGNATION TO BE PLACED ON THE SOIL SIDE OF THE WALL.  
 3. THIS IS A SHEAR WALL - PLACE CC12 AT THE END + EA JAMB OF WALL.  
 4. ALL HORIZONTAL REINFORCING SHALL TERMINATE AT ENDS OF WALLS + ALL JAMBS WITH A STANDARD HOOK. END OF WALL IS DEFINED AS ANY WALL SEGMENT THAT EITHER CHANGES DIRECTION AND/OR CHANGES TO A DIFFERENT WALL TYPE.  
 5. SEE GENERAL STRUCTURAL NOTES FOR ALL OTHER REQUIREMENTS.

H1 S301 CONCRETE WALL SCHEDULE + DETAILS  
 Scale: NTS

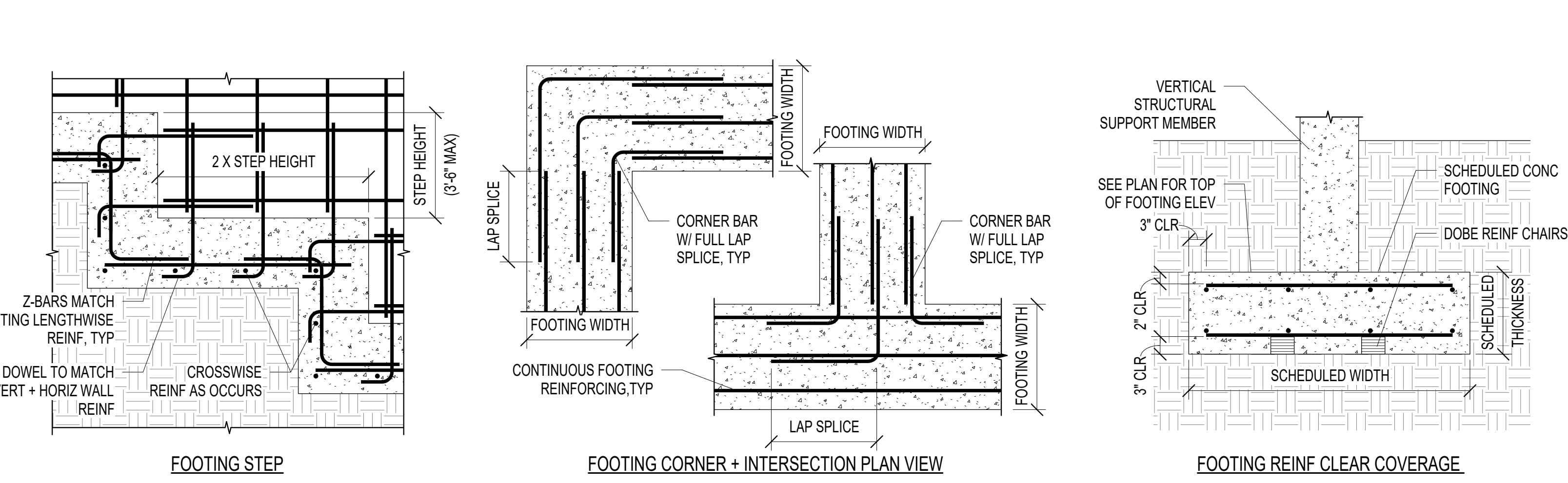


CONCRETE SLAB ON GRADE RECESSED JOINTS      CONCRETE SLAB ON GRADE JOINTS      DISCONTINUOUS CONTROL JOINT (PLAN VIEW)

CONCRETE SLAB ON GRADE SCHEDULE					
S#	MARK	THICK	SLAB REINFORCING	SLAB BASE MATERIAL	COMMENTS

NOTES:  
 1. SEE GEOTECHNICAL REPORT FOR ADDITIONAL SLAB ON GRADE REQUIREMENTS.  
 2. SEE GENERAL STRUCTURAL NOTES FOR ALL OTHER REQUIREMENTS.

E1 S301 CONCRETE SLAB ON GRADE SCHEDULE + DETAILS  
 Scale: NTS



FOOTING STEP      FOOTING CORNER + INTERSECTION PLAN VIEW      FOOTING REINFORCING CLEAR COVERAGE

CONCRETE FOOTING SCHEDULE													
FX#	MARK	WIDTH	LENGTH	THICK	CROSSWISE REINFORCING			LENGTHWISE REINFORCING			COMMENTS		
					NO. BARS	BAR SIZE	LENGTH	SPACING	NO. BARS	BAR SIZE		LENGTH	SPACING
	FC2.5	2' - 6"	CONT	12"	#5	2' - 0"	12" OC	4	#5	CONT	8"		
	FC3.0	3' - 0"	CONT	12"	#5	2' - 6"	12" OC	4	#5	CONT	10"		
	FS4.5x12	4' - 6"	12' - 0"	18"	13	#6	4' - 0"	12"	7	#7	11' - 6"	8"	TOP+BTM, NOTE 6
	FS4X10	4' - 0"	10' - 0"	18"	11	#6	3' - 6"	11"	6	#7	9' - 6"	8"	TOP+BTM, NOTE 6
	FS4X11	4' - 0"	11' - 0"	18"	12	#6	3' - 6"	11"	6	#7	10' - 6"	8"	TOP+BTM, NOTE 6
	FS5X12	5' - 0"	12' - 0"	18"	13	#6	4' - 6"	12"	8	#7	11' - 6"	8"	TOP+BTM, NOTE 6
	FS5X13	5' - 4"	13' - 6"	20"	14	#6	4' - 10"	12"	8	#7	13' - 0"	8"	TOP+BTM, NOTE 6

NOTES:  
 1. CONTINUOUS FOOTINGS SHALL BE CENTERED UNDER WALLS, UNO.  
 2. SPOT FOOTINGS SHALL BE CENTERED UNDER COLUMNS, UNO.  
 3. ALL FOOTINGS SHALL BE FORMED AND NOT EARTH FORMED OR OVERSIZED WITHOUT WRITTEN PERMISSION FROM THE STRUCTURAL ENGINEER.  
 4. PLACE ALL FOOTING REINFORCING IN BOTTOM OF FOOTING WITH 3" CLEAR CONCRETE COVER.  
 5. REINFORCING IN CONTINUOUS FOOTINGS SHALL PASS THROUGH INTERSECTING SPOT FOOTINGS.  
 6. PROVIDE TOP + BOTTOM REINFORCING WITH 90 DEGREE HOOK AT EACH END.  
 7. TOP REINFORCING SHOWN IN DETAILS SHALL BE #5 @ 12" OC UNLESS NOTED OTHERWISE  
 8. AS A MINIMUM ALL FOOTINGS GREATER THAN OR EQUAL TO 18" IN THICKNESS REQUIRE #6 @ 12" OC EA WAY IN THE TOP OF FOOTING. REFER TO SCHEDULE FOR MORE STRINGENT REQUIREMENTS.  
 9. SEE GENERAL STRUCTURAL NOTES FOR ALL OTHER REQUIREMENTS.

A1 S301 CONCRETE FOOTING SCHEDULE + DETAILS  
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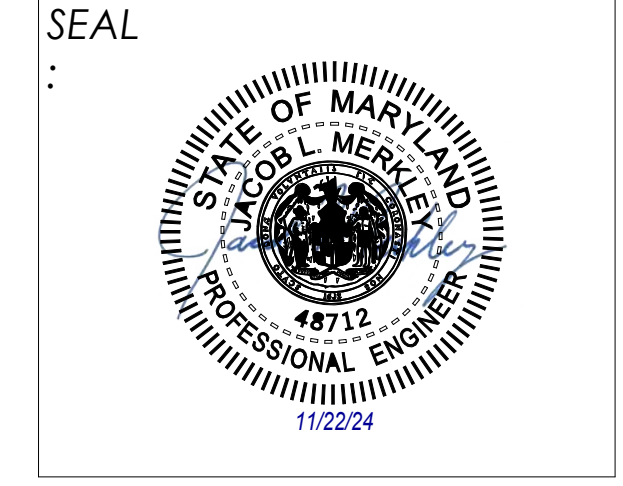




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**DRAWING TITLE:**  
 STRUCTURAL  
 SCHEDULES

**DRAWING NO.:**  
**S302**



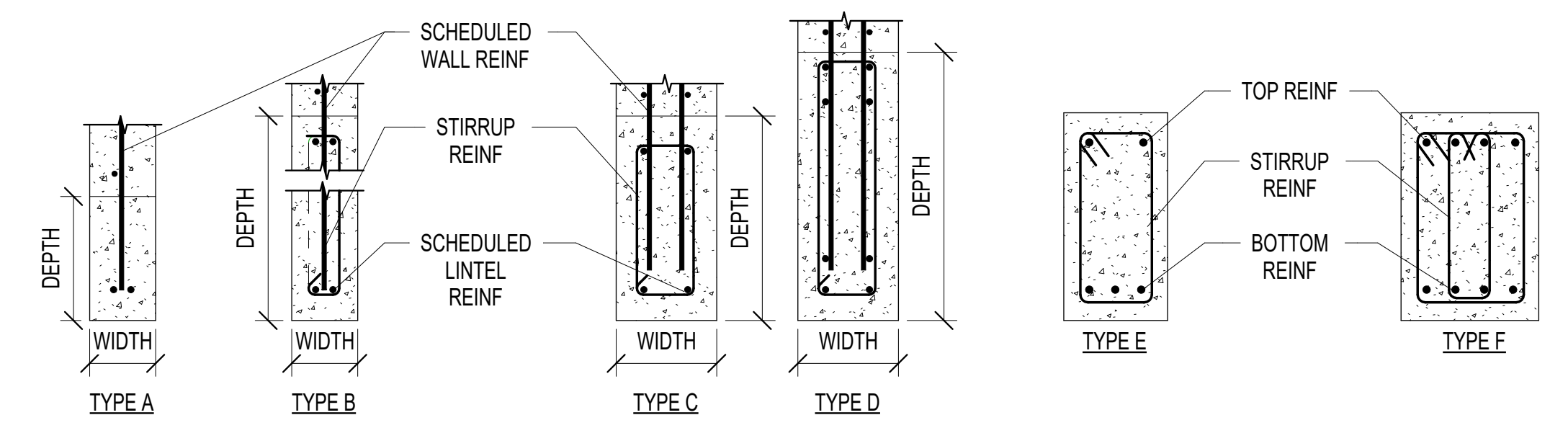
BAR SIZE	TENSION BARS						COMP BARS
	f <sub>c</sub> = 3000 PSI		f <sub>c</sub> = 4000 PSI		f <sub>c</sub> = 4500 PSI		
	REGULAR	TOP	REGULAR	TOP	REGULAR	TOP	
#3	22"	29"	19"	25"	18"	23"	12"
#4	29"	38"	25"	33"	24"	31"	15"
#5	36"	47"	31"	40"	30"	39"	19"
#6	43"	56"	37"	48"	35"	46"	23"
#7	63"	82"	54"	70"	51"	66"	27"
#8	72"	94"	62"	81"	59"	77"	30"
#9	81"	105"	70"	91"	66"	86"	34"
#10	90"	117"	78"	101"	73"	95"	38"
#11	98"	127"	85"	111"	80"	104"	42"

NOTES:  
 1. TOP BARS ARE HORIZONTAL BARS. SPLICED SO THAT 12" OR MORE OF FRESH CONCRETE IS CAST IN THE MEMBER BELOW THE REINFORCING BAR.  
 2. ALL COLUMNS CAST INTEGRAL WITH WALLS, OR WHICH SUPPORT STEEL BRACED OR MOMENT FRAMES, OR WHICH ARE DESIGNATED MOMENT FRAMES ARE TO USE REGULAR LAP SPLICES. ALL OTHER CONCRETE COLUMNS MAY USE COMPRESSION BAR (COMPBAR) LAP SPLICE VALUES.  
 3. FOR VERTICAL BARS IN SHEAR WALL BOUNDARY ELEMENTS (SEE CONCRETE WALL SCHEDULE AND NOTES), LAP SPLICE VALUES ABOVE SHALL BE MULTIPLIED BY 1.25.  
 4. WHERE LIGHTWEIGHT CONCRETE IS USED, LAP SPLICE VALUES ABOVE SHALL BE MULTIPLIED BY 1.33.  
 5. WHERE EPOXY COATED REINFORCING IS SPECIFIED, LAP SPLICE VALUES ABOVE SHALL BE MULTIPLIED BY 1.5.

**H16 CONCRETE LAP SCHEDULE**  
 Scale: NTS

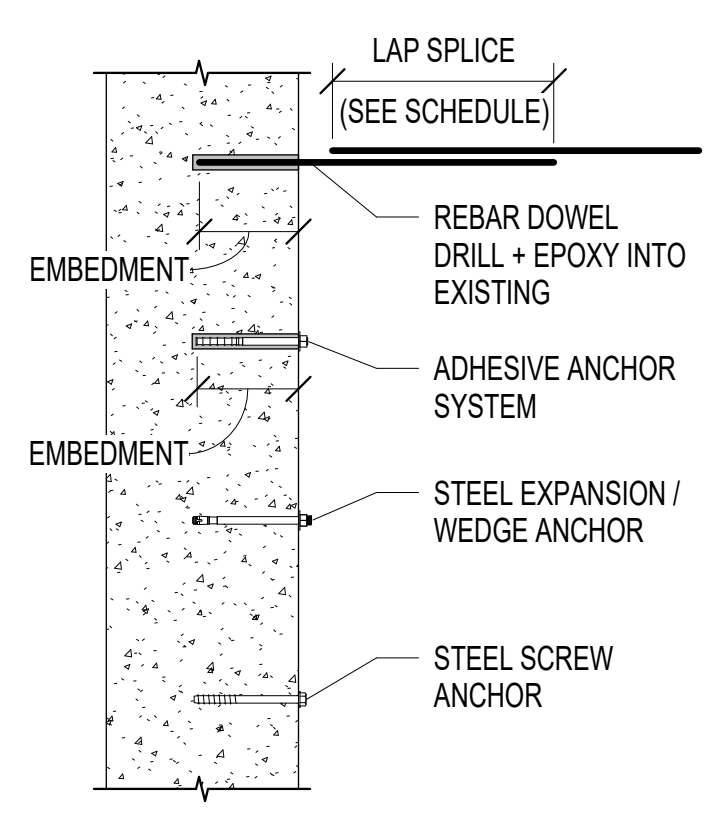
MARK	DEPTH	WIDTH	TYPE	BEAM/LINTEL REINFORCING		SUPPORT COLUMN	COMMENTS
				HORIZONTAL	STIRRUPS		
CL1	18"	8"	TYPE B	(2) #5 T+B	#3@8" OC	CC12	
CB1	16"	12"	TYPE E	(2) #5 T+B	#3@6" OC	CC12	

NOTES:  
 1. LINTELS SHALL BE OF THE SAME MATERIAL AND WIDTH AS THE WALL IN WHICH THEY ARE CONSTRUCTED.  
 2. EXTEND HORIZONTAL REINFORCING BEYOND THE EDGE OF ALL OPENINGS BY REQD DEVELOPMENT LENGTH. PROVIDE A 90° STANDARD HOOK WHERE THIS CANNOT BE ACCOMPLISHED.  
 3. BEAMS SHALL BE POURED MONOLITHICALLY WITH WALL.  
 4. TERMINATE LONGITUDINAL BEAM REINFORCING WITH A STANDARD 90 DEGREE HOOK.  
 5. SEE GENERAL STRUCTURAL NOTES FOR ALL OTHER REQUIREMENTS.



**CONCRETE LINTEL TYPES**      **CONCRETE BEAM TYPES**

**M1 CONCRETE LINTEL SCHEDULE + DETAILS**  
 Scale: NTS

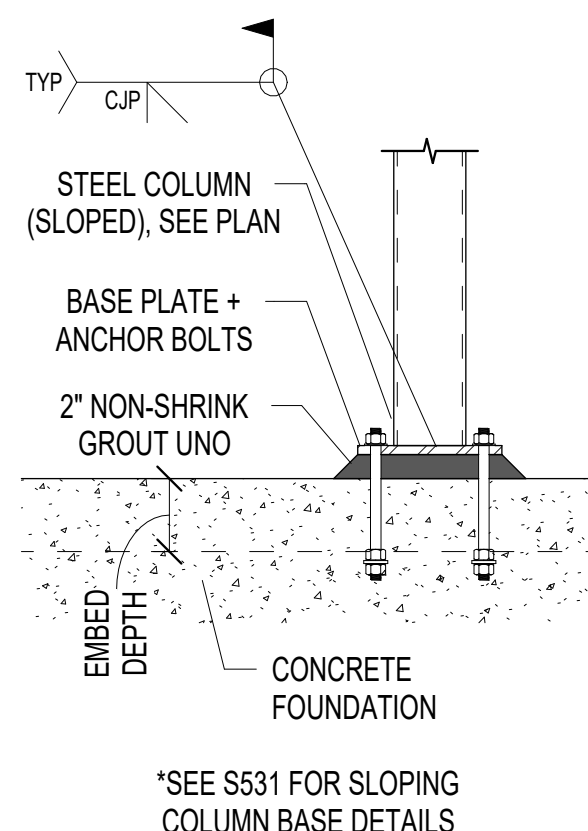


ANCHOR TYPE	ANCHOR	EVAL REPORT				
ADHESIVE ANCHOR SYSTEM	HIT-RE 500 V3	ICC-ES ESR-3814				
	DEWALT PURE 110+	ICC-ES ESR-3298				
	SIMPSON SET-3G	ICC-ES ESR-4057				
STEEL EXPANSION / WEDGE ANCHOR	HILTI KWIK BOLT TZ	ICC-ES ESR-1917				
	DEWALT POWER-STUD+ SD2	ICC-ES ESR-2502				
STEEL SCREW ANCHOR	SIMPSON STRONG-BOLT 2	ICC-ES ESR-3037				
	HILTI KWIK HUS-EZ	ICC-ES ESR-3027				
	DEWALT SCREW-BOLT+	ICC-ES ESR-3889				
	SIMPSON TITEN HD	ICC-ES ESR-2713				
ADHESIVE ANCHOR SYSTEM EMBEDMENT						
SIZE (DIA)	#3 (3/8")	#4 (1/2")	#5 (5/8")	#6 (3/4")	#7 (7/8")	#8 (1")
EMBEDMENT	4.1/2"	6.1/2"	7.1/2"	10"	12"	13"

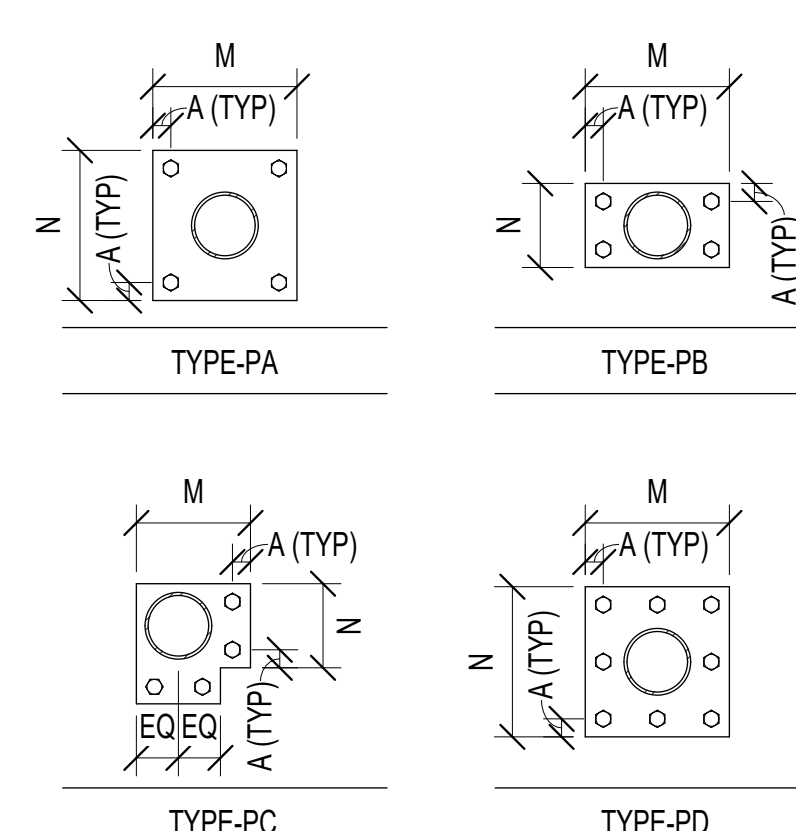
NOTES:  
 1. CAST-IN-PLACE ANCHORS CALLED OUT IN PLANS SHALL NOT BE REPLACED WITH POST-INSTALLED ANCHORS UNLESS SPECIFICALLY DIRECTED BY THE ENGINEER OF RECORD.  
 2. ALL POST-INSTALLED ANCHORS INTO HARDENED CONCRETE SHALL BE SELECTED FROM THE PRE-APPROVED PRODUCTS (SHOWN IN THE TABLE) OR ENGINEER APPROVED EQUAL UNLESS NOTED OTHERWISE.  
 3. ANCHORS SHALL BE INSTALLED ACCORDING TO MANUFACTURER'S PUBLISHED INSTRUCTIONS AND APPLICABLE CODE EVALUATION REPORTS.  
 4. ALL POST-INSTALLED ANCHOR INSTALLATIONS ARE SUBJECT TO CONTINUOUS SPECIAL INSPECTION (SEE EVALUATION REPORTS AND SPECIAL INSPECTION TABLES).  
 5. SCHEDULED EMBEDMENT ABOVE ARE MINIMUM VALUES, HOWEVER ANY EMBEDMENT LENGTHS SHOWN IN PLANS GOVERN OVER THESE VALUES.  
 6. ANCHORS SHALL BE INSTALLED IN CONCRETE HAVING A MINIMUM AGE OF 21 DAYS. FOR INSTALLATIONS SOONER THAN 21 DAYS, CONSULT MANUFACTURER.  
 7. INSTALLATION OF ADHESIVE ANCHORS HORIZONTALLY OR UPWARDLY INCLINED TO SUPPORT SUSTAINED TENSION LOADS SHALL BE PERFORMED BY A CERTIFIED ADHESIVE ANCHOR INSTALLED (AAI) AS CERTIFIED THROUGH ACI AND IN ACCORDANCE WITH ACI 318-14 (SECTION 17.8.2.2). PROOF OF CURRENT CERTIFICATION SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO COMMENCEMENT OF INSTALLATION.  
 8. IF TEMPERATURE OF BASE MATERIAL AT TIME OF ADHESIVE INSTALLATION IS AT 40 DEGREES (FAHRENHEIT) OR LESS, VERIFY WITH MANUFACTURER THAT FULL STRENGTH OF ADHESIVE CAN BE OBTAINED. OTHERWISE AN "ACRYLIC" ADHESIVE IS REQUIRED.  
 9. DO NOT DAMAGE EXISTING REINFORCING OR EMBEDS DURING THE INSTALLATION OF POST-INSTALLED ANCHORS. CONTRACTOR TO LOCATE ALL EXISTING EMBEDDED ITEMS AND REINFORCING PRIOR TO THE INSTALLATION OF POST-INSTALLED ANCHORS.

**H1 CONCRETE POST-INSTALLED ANCHOR SCHEDULE**  
 Scale: NTS





TYPICAL COLUMN BASE CONDITION



ROUND HSS COLUMN BASE PLATE TYPES

SC#	STEEL COLUMN SCHEDULE
MARK	COLUMN SIZE
SC7	HSS7.500X0.500
SC8	HSS8.625X0.500

NOTES:

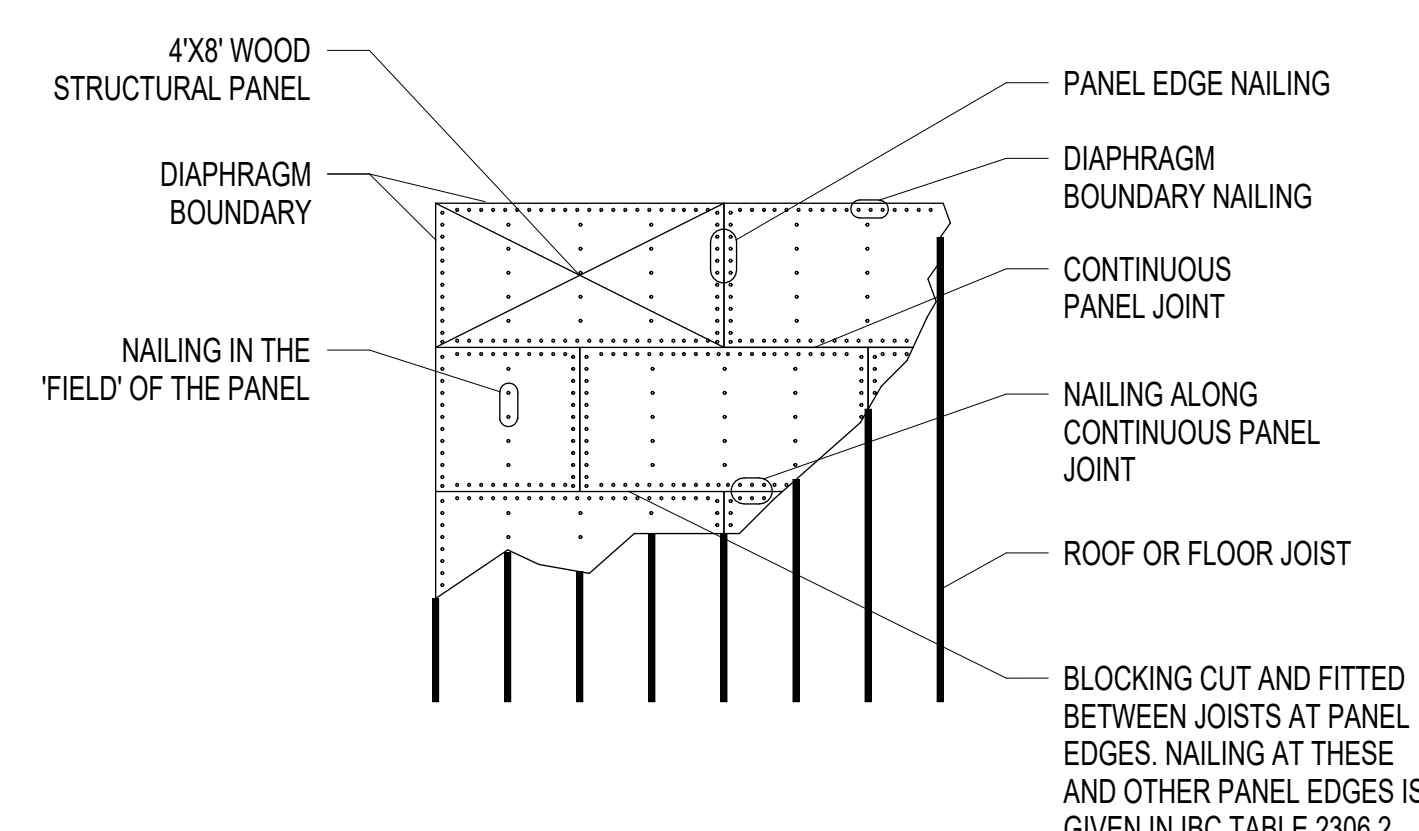
- ALL COLUMNS TO BE CENTERED ON FOOTINGS AND FOUNDATIONS UNLESS SPECIFICALLY NOTED OTHERWISE.
- ALL COLUMNS ARE TO BE GALVANIZED. SEE ARCH FOR FINAL PAINT FINISH.

#	STEEL BASE PLATE SCHEDULE									
MARK	TYPE	"M" DIM	"N" DIM	PLATE THICKNESS	GROUT THICKNESS	"A" DIM	NO. OF ANCHORS	ANCHOR SIZE	ANCHOR EMBED	ANCHOR TYPE
7	TYPE-PD	18"	18"	1 1/2"	2"	2"	8	1 1/4"	1'-2"	HEADED
8	TYPE-PD	20"	20"	1 3/4"	2"	2"	8	1 1/4"	1'-2"	HEADED

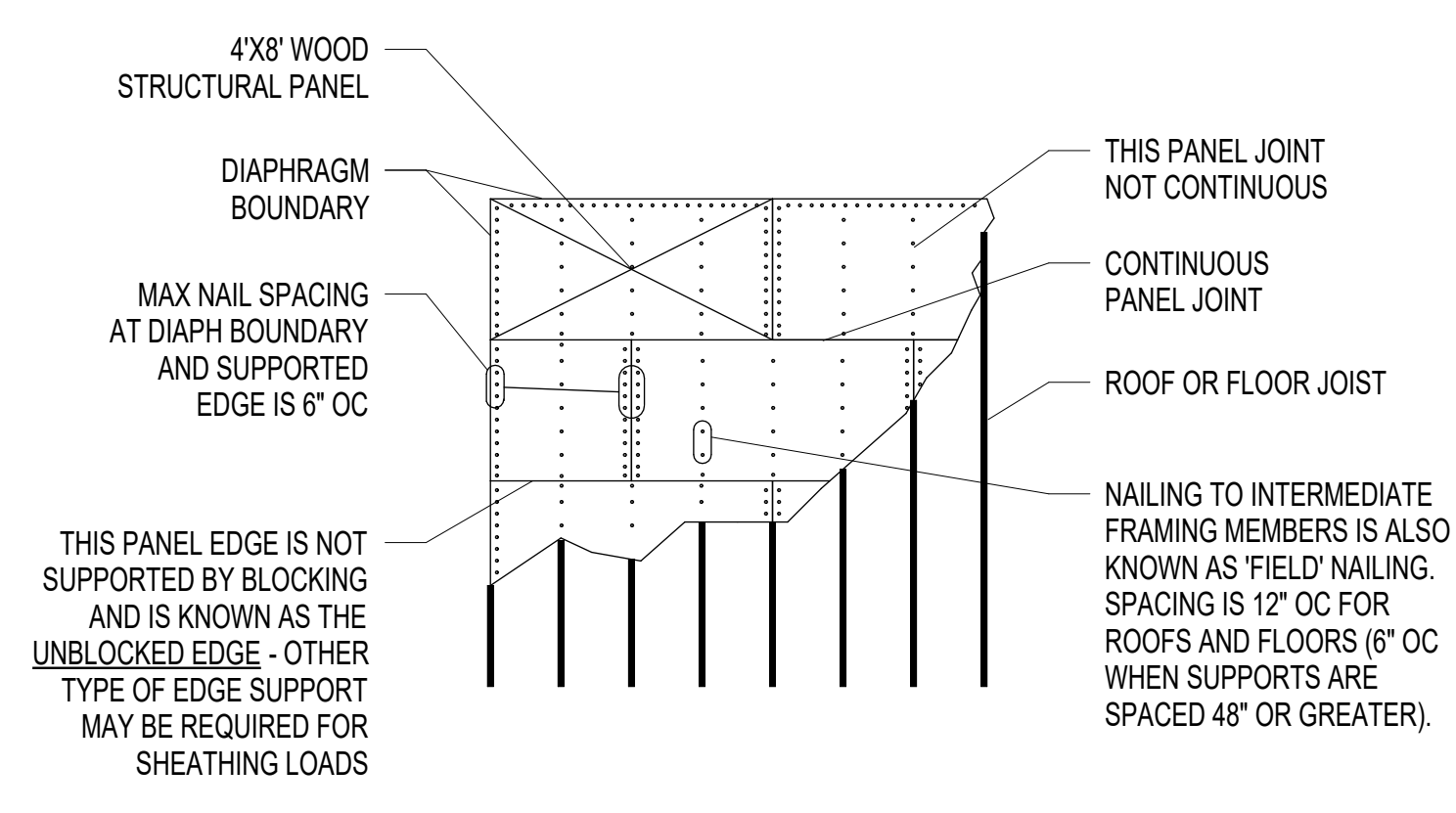
NOTES:

- ALL COLUMNS TO BE CENTERED ON BASE PLATES UNLESS SPECIFICALLY NOTED OTHERWISE.
- ALL BASE PLATES ARE TO BE A572-50 GRADE WITH 7/8" THICK x 6" x 6" SHEAR LUG CENTERED W/ 5/16" WELD TO BASE PLATE. NOTCH SHEAR LUGS AS REQ'D TO ACCOMMODATE REINF STEEL
- ALL ANCHORS SHALL BE HEAVY HEADED ANCHOR RODS W/ 4"x4"x1/2" PLATE WASHERS WITH DOUBLE NUTS EMBEDDED IN CONCRETE AT THE EMBEDMENT DEPTH SPECIFIED.
- ALL ANCHOR RODS ARE TO BE ASTM F1554-55 UNLESS NOTED OTHERWISE
- SEE GENERAL STRUCTURAL NOTES FOR ALL OTHER REQUIREMENTS.

M1 S303 GRAVITY STEEL COLUMN + BASE PLATE SCHEDULE Scale: NTS



PARTIAL ROOF OR FLOOR PLAN (BLOCKED DIAPHRAGM)



PARTIAL ROOF OR FLOOR PLAN (UNBLOCKED DIAPHRAGM)

G1 S303 WOOD DIAPHRAGM SHEATHING SCHEDULE + DETAILS Scale: NTS

MARK	THICKNESS	TYPE	BOUNDARY NAILING	FIELD NAILING	BLOCKING	COMMENTS
RD1	3/4"	OSB	10d@6" OC	8d@6" OC	UNBLOCKED	
RD2	15/32"	OSB	10d@6" OC	8d@6" OC	UNBLOCKED	

NOTES:

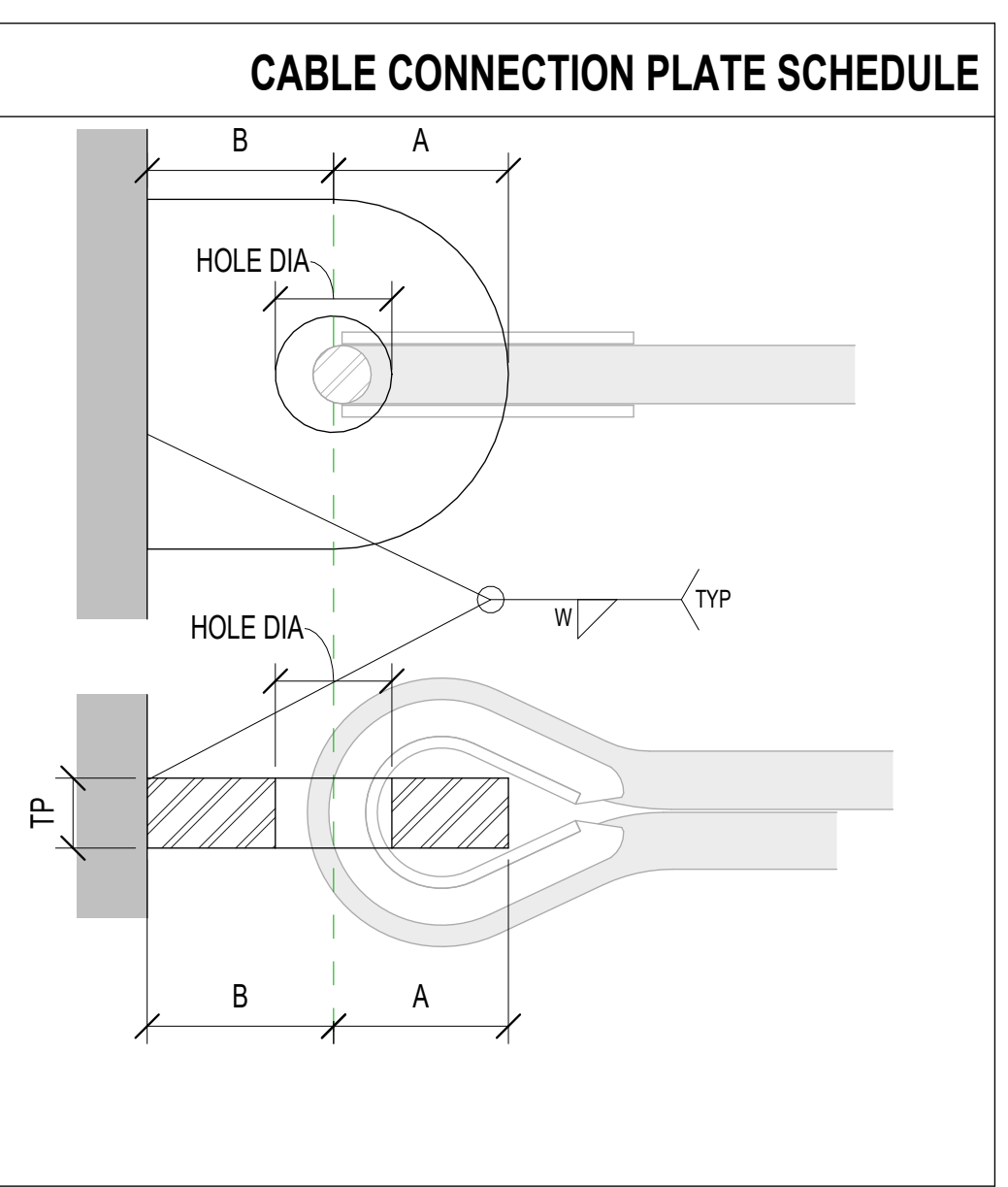
- FOR BLOCKED EDGE NAILING NOMINAL DEPTH OF BLOCKING MUST BE 3" MIN.

WOOD DECK SCHEDULE

CABLE SIZE	THICKNESS (TP)	HOLE SIZE	WELD W	PLATE DIMENSIONS	
				A	B
1/4"	1/2"	3/4"	1/4"	7/8"	3"
3/8"	1/2"	1"	5/16"	1.1/4"	3"
1/2"	1/2"	1"	5/16"	1.5/8"	3"
5/8"	3/4"	1.1/4"	3/8"	1.7/8"	3"
3/4"	1"	1.1/2"	3/8"	2"	3"
7/8"	1"	1.1/2"	3/8"	2.1/2"	3"
1"	1.1/4"	1.3/4"	7/16"	3"	3"
1.1/4"	1.1/2"	2"	1/2"	3.3/4"	3"
1.1/2"	1.3/4"	2.3/4"	1/2"	5"	3"

NOTES:

- PLATE IS TO MATCH THE SAME FINISH AS THE ELEMENT IT IS WELDING TO.
- GENERAL CONTRACTOR TO COORDINATE HOLE SIZE WITH PURCHASED HARDWARE AND OR CABLE SIZE.
- CABLES GREATER THAN OR EQUAL TO 1" IN DIAMETER TO USE EXTRA HEAVY WIRE ROPE THIMBLE. ALL OTHERS TO USE STANDARD WIRE ROPE THIMBLES. ALL THIMBLES TO MATCH SAME FINISH AS WIRE ROPE.



A1 S303 CABLE CONNECTION PLATE SCHEDULE Scale: NTS

CONNECTION		MINIMUM NAILING, U.N.O.		CONNECTION		MINIMUM NAILING, U.N.O.	
JOIST TO SILL, TOP PLATE OR GIRDER	(3)8d, (3)3" X 0.131", TOENAIL			RIM JOIST TO TOP PLATE	8d @ 6" OC, 3" X 0.131" @ 6" OC, TOENAIL		
BRIDGING OR BLOCKING TO JOIST, RAFTER OR TRUSS	(2)8d, (2)3" X 0.131", TOENAIL EACH END			TOP PLATES, LAPS AND INTERSECTIONS	(2)16d, (3)3" X 0.131", FACE NAIL		
BOTTOM PLATE TO JOIST, RIM JOIST, BAND JOIST OR BLOCKING (NOT AT BRACED WALL PANELS)	16d @ 16" OC, 3" X 0.131" @ 12" OC, FACE NAIL			BUILT UP HEADERS (2" TO 2" HEADER)	16d @ 16" OC, FACE NAIL EACH EDGE		
TOP OR BOTTOM PLATE TO STUD	(2)16d, (3)3" X 0.131", END NAIL			CEILING JOIST TO TOP PLATE	(3)8d, (3)3" X 0.131", TOENAIL EACH JOIST		
STUD TO TOP OR BOTTOM PLATE	(4)8d, (4)3" X 0.131", TOENAIL; (2)16d, (3)3" X 0.131", END NAIL			CONTINUOUS HEADER TO STUD	(4)8d, TOENAIL		
STUD TO STUD (NOT AT BRACED WALL PANELS)	16d @ 24" OC, 3" X 0.131" @ 16" OC, FACE NAIL			CEILING JOIST, LAPS OVER PARTITIONS	(3)16d, (4)3" X 0.131", FACE NAIL		
TOP PLATE TO TOP PLATE	16d @ 16" OC, 3" X 0.131" @ 12" OC, FACE NAIL			CEILING JOISTS TO PARALLEL RAFTERS (HEEL JOIST)	SEE IBC TABLE 2308.7.3.1, FACE NAIL		
BLOCKING BETWEEN CEILING JOISTS, RAFTERS OR TRUSSES TO TOP PLATE OR OTHER FRAMING BELOW	(3)8d, (3)3" X 0.131", TOENAIL EACH END			RAFTER OR ROOF TRUSS TO TOP PLATE	(3)10d, (3)3" X 0.131", TOENAIL		
RIM JOIST TO TOP PLATE	8d @ 6" OC, 3" X 0.131" @ 6" OC, TOENAIL			KING STUD OR POST TO HEADER	(3)16d, FACE NAIL @ STUDS; SIMPSON A34, TOP & BOTTOM @ POSTS		
				BUILT-UP BEAMS	SEE "TYPICAL BUILT-UP BEAM REQ'S"		
				LEDGER STRIP	(3)16d, (4)3" X 0.131", FACE NAIL EACH JOIST OR RAFTER		

NOTES:

- USE COMMON NAILS FOR ALL NAILING.
- REQUIREMENTS SHOWN ABOVE SHALL NOT REPLACE THOSE SHOWN IN PLANS OR DETAILS. IN ANY CASE, USE THE MORE STRINGENT REQUIREMENT.

A10 S303 GENERAL WOOD FRAMING SCHEDULE Scale: NTS

CONNECTION	MINIMUM NAILING, U.N.O.	CONNECTION	MINIMUM NAILING, U.N.O.
ROOF AND WALL SHEATHING TO FRAMING	1/2" OR LESS 19/32" - 3/4" 7/8" - 1.1/4"	8d 8d 10d	6" OC EDGE NAILING 12" OC FIELD NAILING 6" OC EDGE NAILING 12" OC FIELD NAILING
SINGLE FLOOR SHEATHING TO FRAMING	3/4" OR LESS 7/8" - 1"	8d 10d	6" OC EDGE NAILING 12" OC FIELD NAILING 6" OC EDGE NAILING 12" OC FIELD NAILING

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SEAL

DATE: JANUARY 14, 2025

PROJECT NO: 2023-10.04

DRAWN BY	SDS
CHECKED BY	JLM
SUBMISSION	DATE
BID SET	01/14/2025

REVISION	DATE
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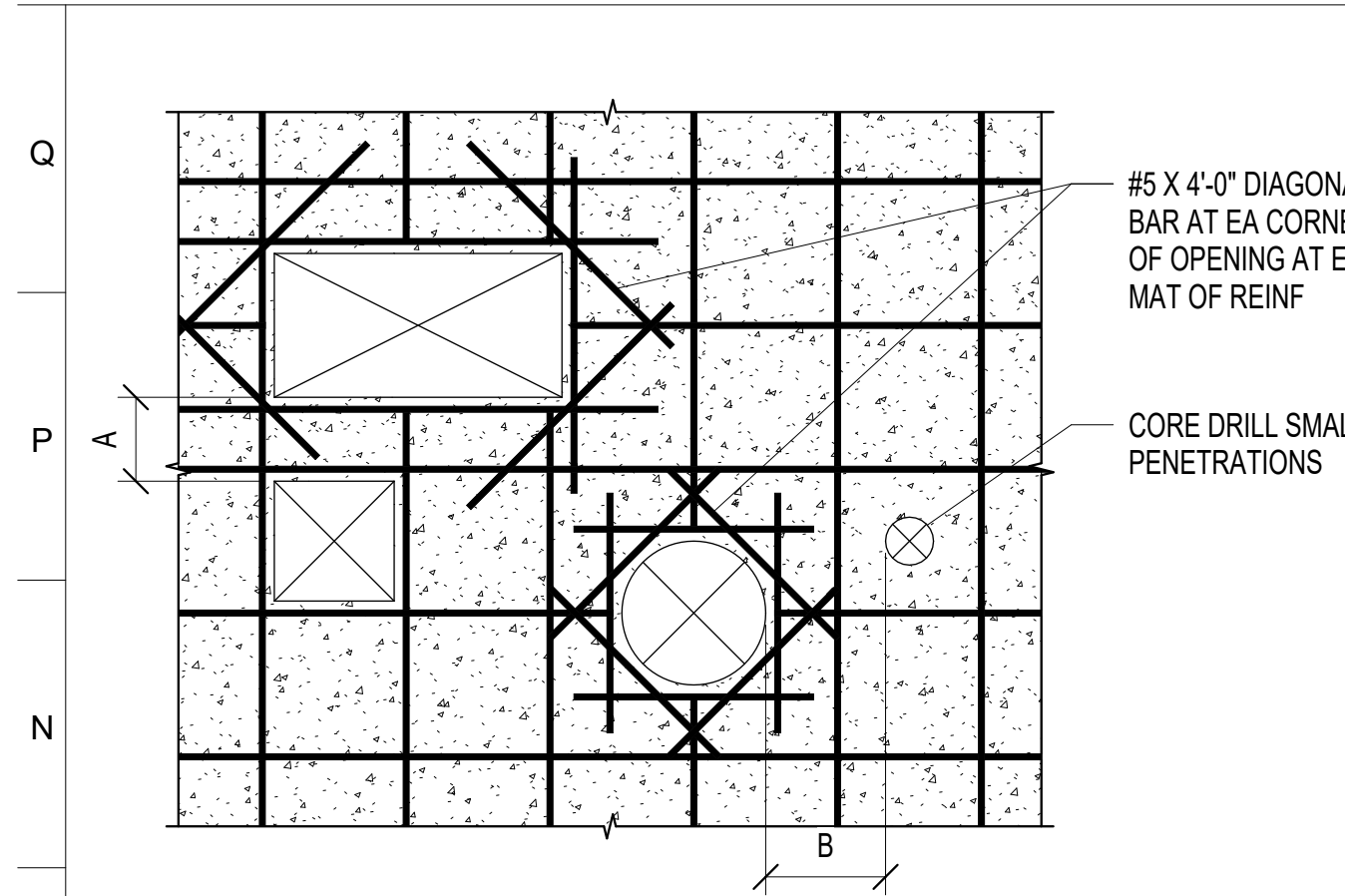
STRUCTURAL SCHEDULES

DRAWING NO:

S303



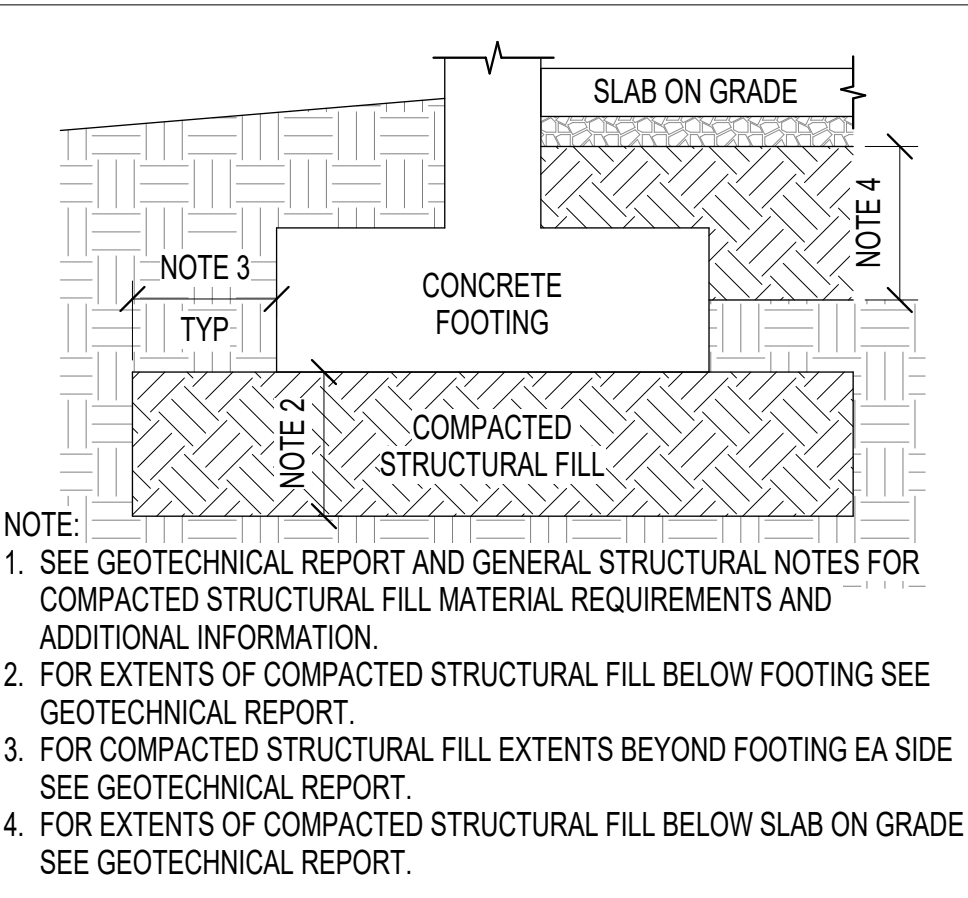




**NOTES FOR REINFORCING AROUND OPENINGS:**  
 1. ALL OPENINGS REQUIRE ADDITIONAL REINFORCING EXCEPT WHERE OPENING SIZE OR LOCATION IS SUCH THAT NO REINFORCING STEEL IS INTERRUPTED (i.e. CONDUITS, SMALL PIPES, etc.). WHERE OPENINGS ARE LARGER THAN THIS SPACING PROVIDE REINFORCING AROUND THE PERIMETER OF THE OPENING EQUAL TO THE AMOUNT INTERRUPTED AND PLACE HALF AT EACH SIDE OF THE OPENING. EXTEND A FULL LAP LENGTH BEYOND OPENING.

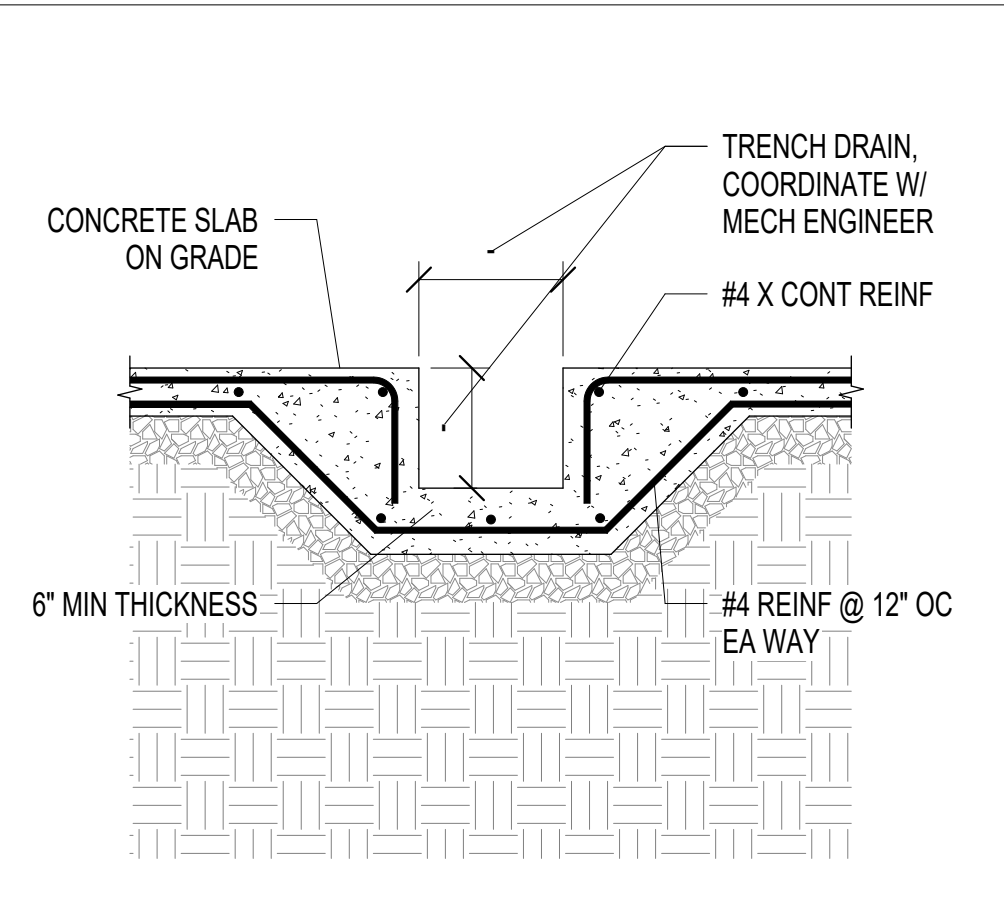
**NOTES FOR ADJACENT OPENINGS:**  
 A = THE LARGEST HEIGHT / DIAMETER OF THE TWO ADJACENT OPENINGS DIVIDED BY 2.0 (WALL THICKNESS MIN)  
 B = THE LARGEST WIDTH / DIAMETER OF THE TWO ADJACENT OPENINGS DIVIDED BY 2.0 (WALL THICKNESS MIN)

M1 S501 TYPICAL MISC OPENINGS IN REINF FOUNDATION WALLS  
 Scale: NTS

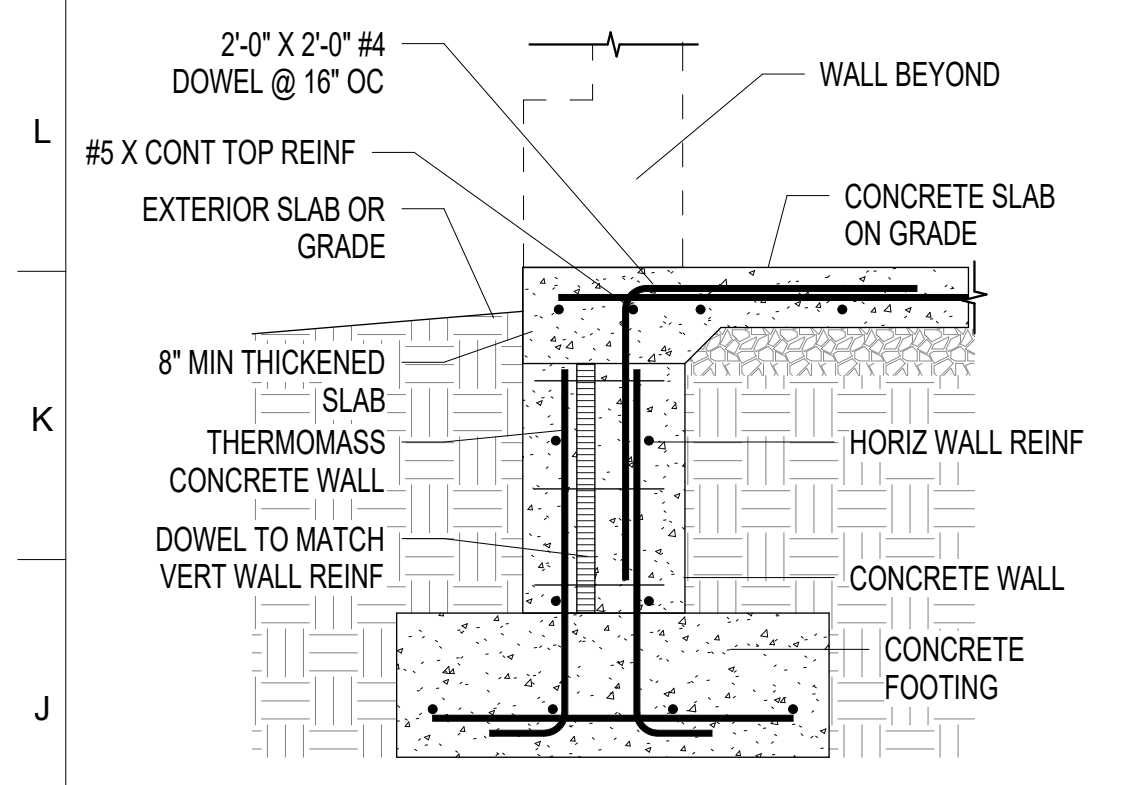


**NOTE:**  
 1. SEE GEOTECHNICAL REPORT AND GENERAL STRUCTURAL NOTES FOR COMPACTED STRUCTURAL FILL MATERIAL REQUIREMENTS AND ADDITIONAL INFORMATION.  
 2. FOR EXTENTS OF COMPACTED STRUCTURAL FILL BELOW FOOTING SEE GEOTECHNICAL REPORT.  
 3. FOR COMPACTED STRUCTURAL FILL EXTENTS BEYOND FOOTING EA SIDE SEE GEOTECHNICAL REPORT.  
 4. FOR EXTENTS OF COMPACTED STRUCTURAL FILL BELOW SLAB ON GRADE SEE GEOTECHNICAL REPORT.

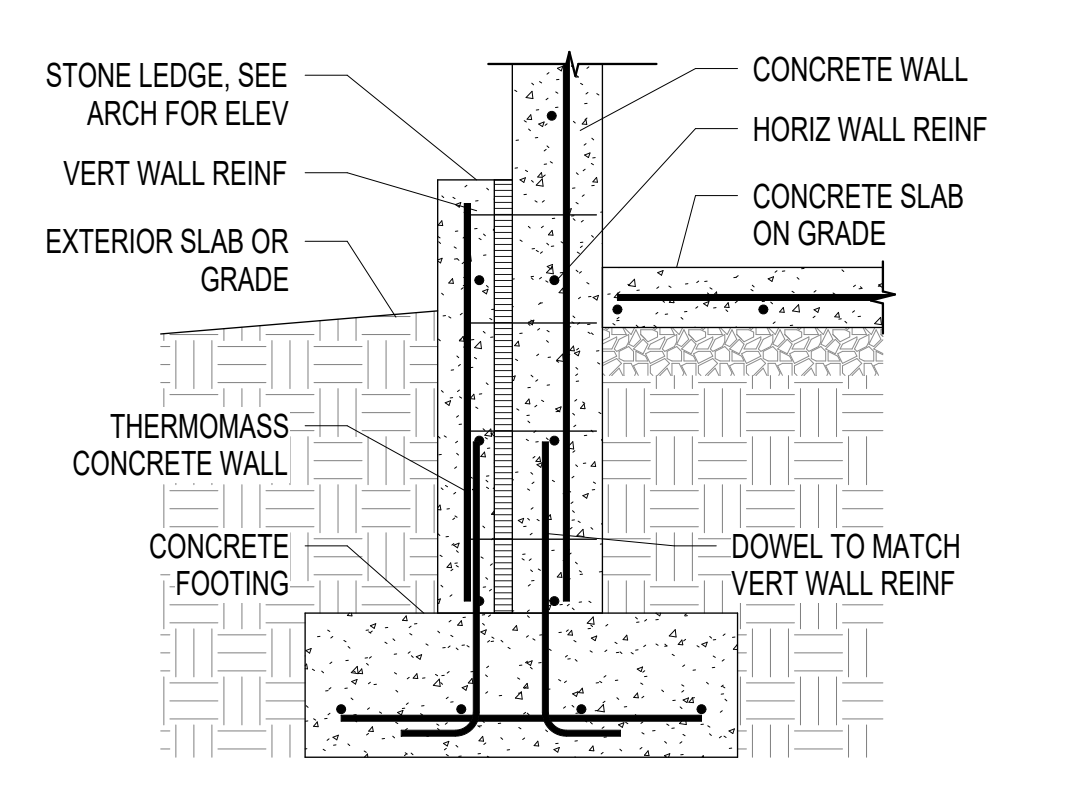
M9 S501 TYPICAL COMPACTED STRUCTURAL FILL  
 Scale: NTS



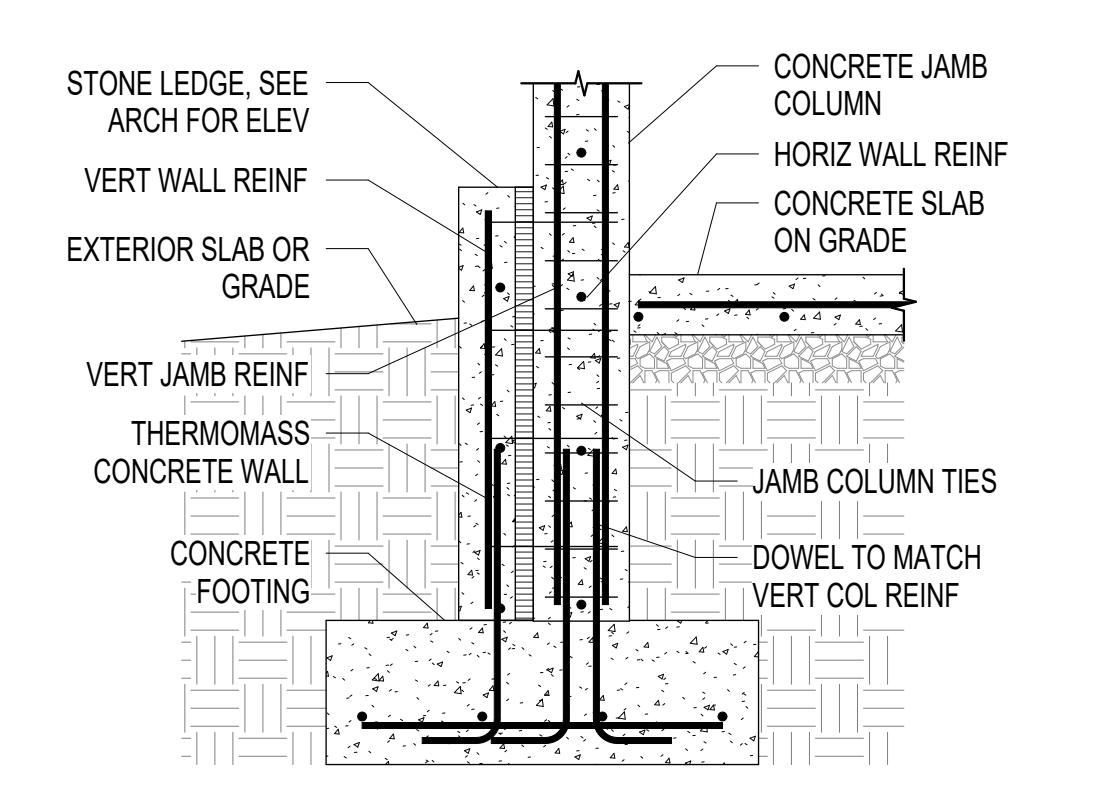
M13 S501 TYPICAL TRENCH DRAIN DETAIL  
 Scale: NTS



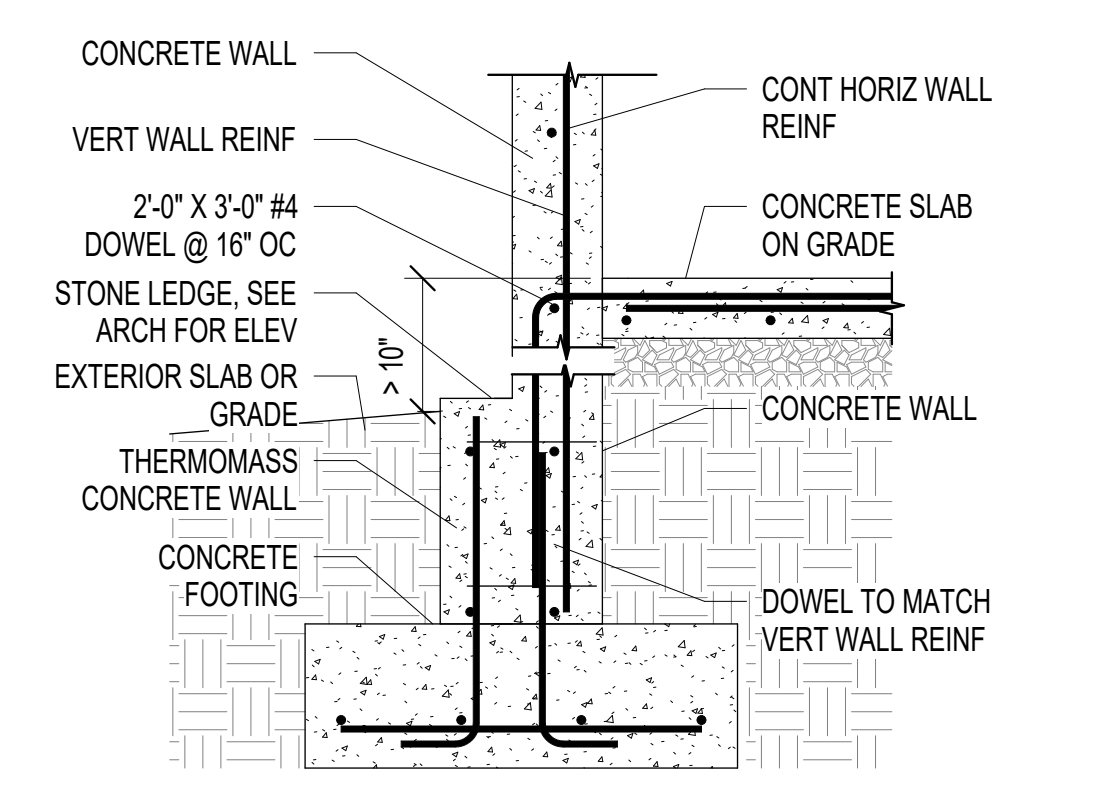
J1 S501 TYPICAL FOUNDATION @ OPENING IN WALL  
 Scale: NTS



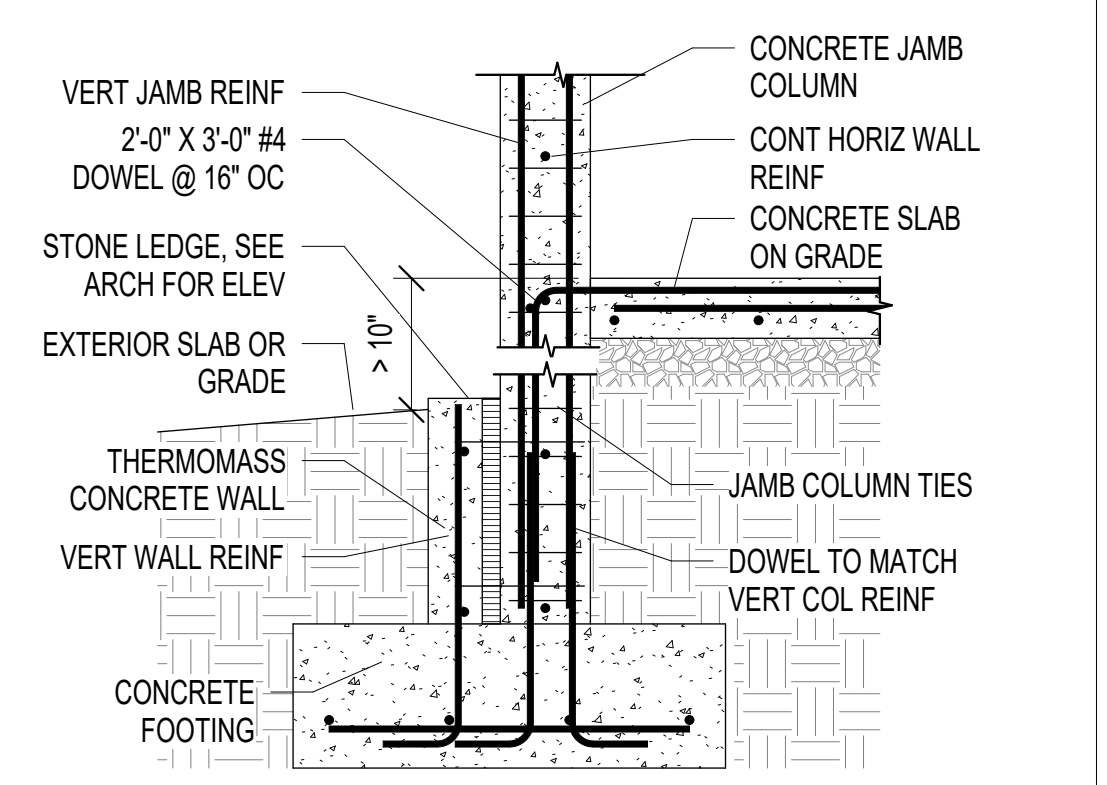
J5 S501 TYPICAL CONCRETE WALL ON FOOTING  
 Scale: NTS



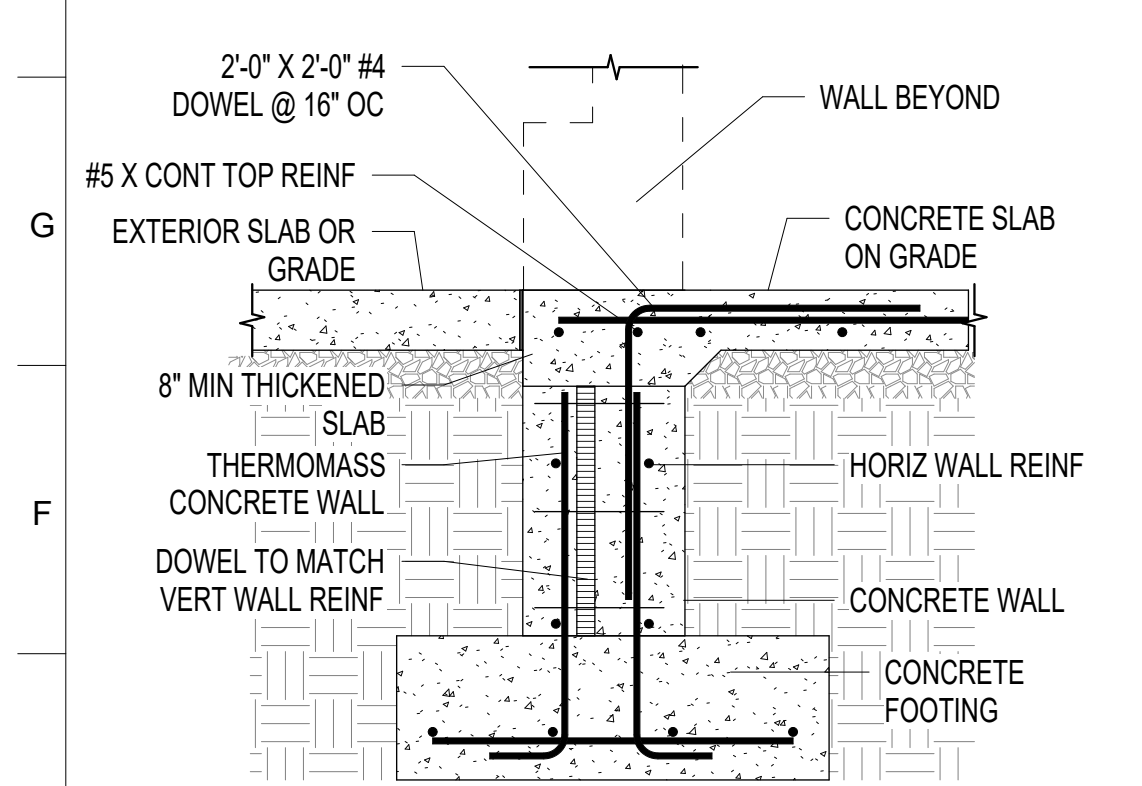
J9 S501 TYPICAL CONCRETE COLUMN ON FOOTING  
 Scale: NTS



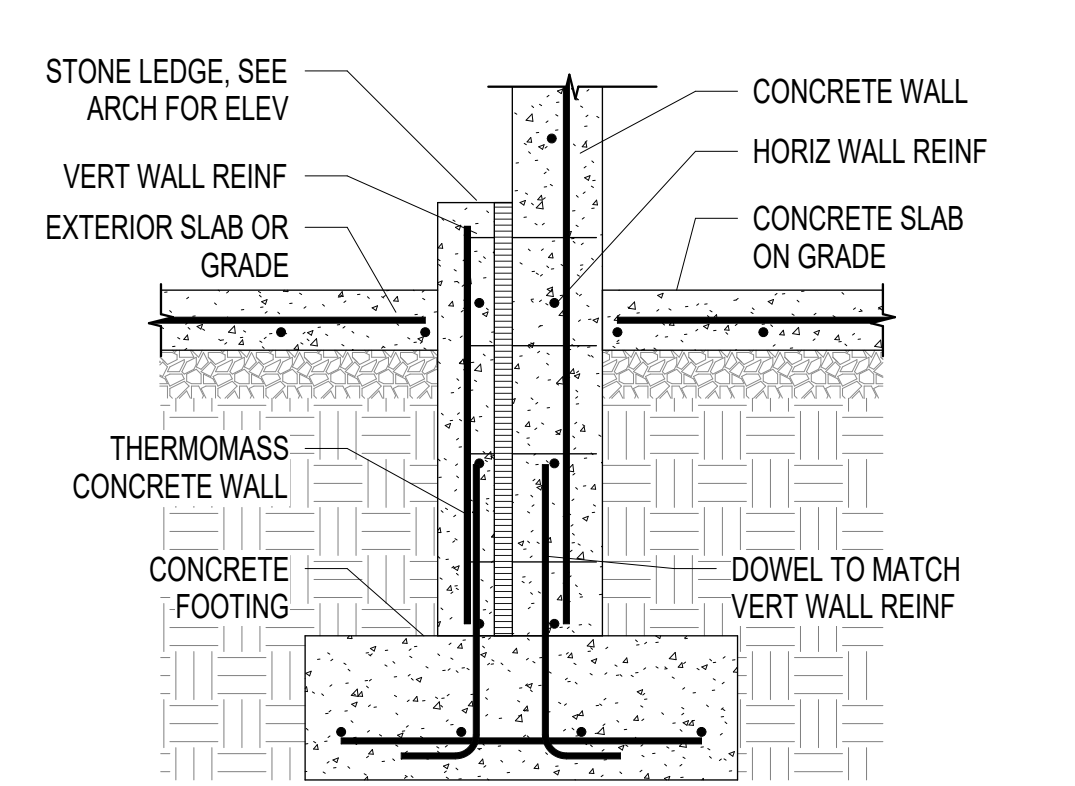
J13 S501 TYPICAL CONCRETE WALL @ GRADE STEP  
 Scale: NTS



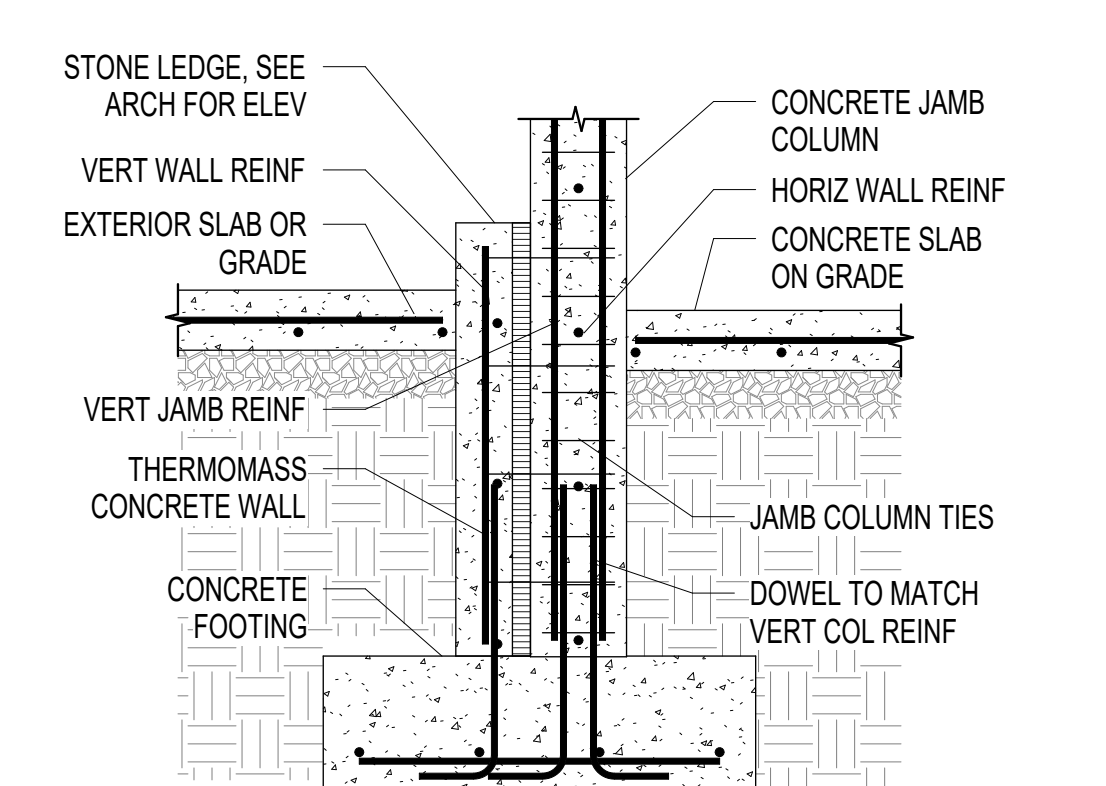
J17 S501 TYPICAL CONCRETE COLUMN @ GRADE STEP  
 Scale: NTS



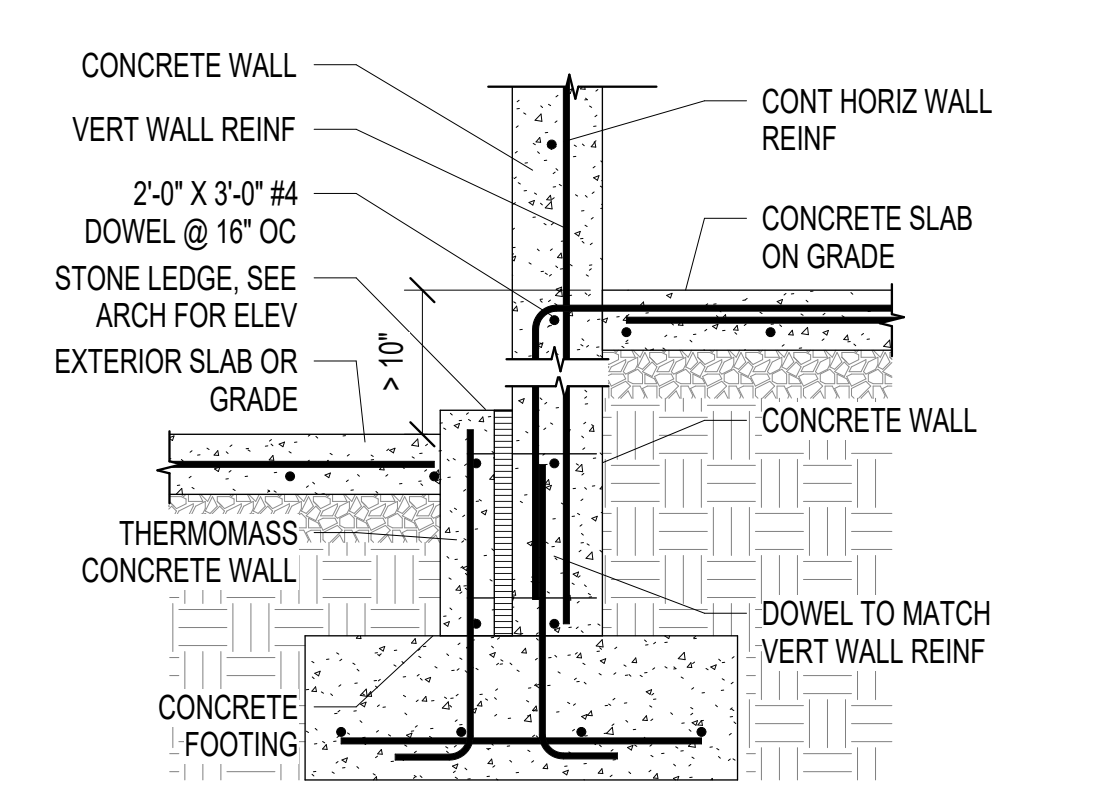
E1 S501 TYPICAL FOUNDATION @ OPENING IN WALL  
 Scale: NTS



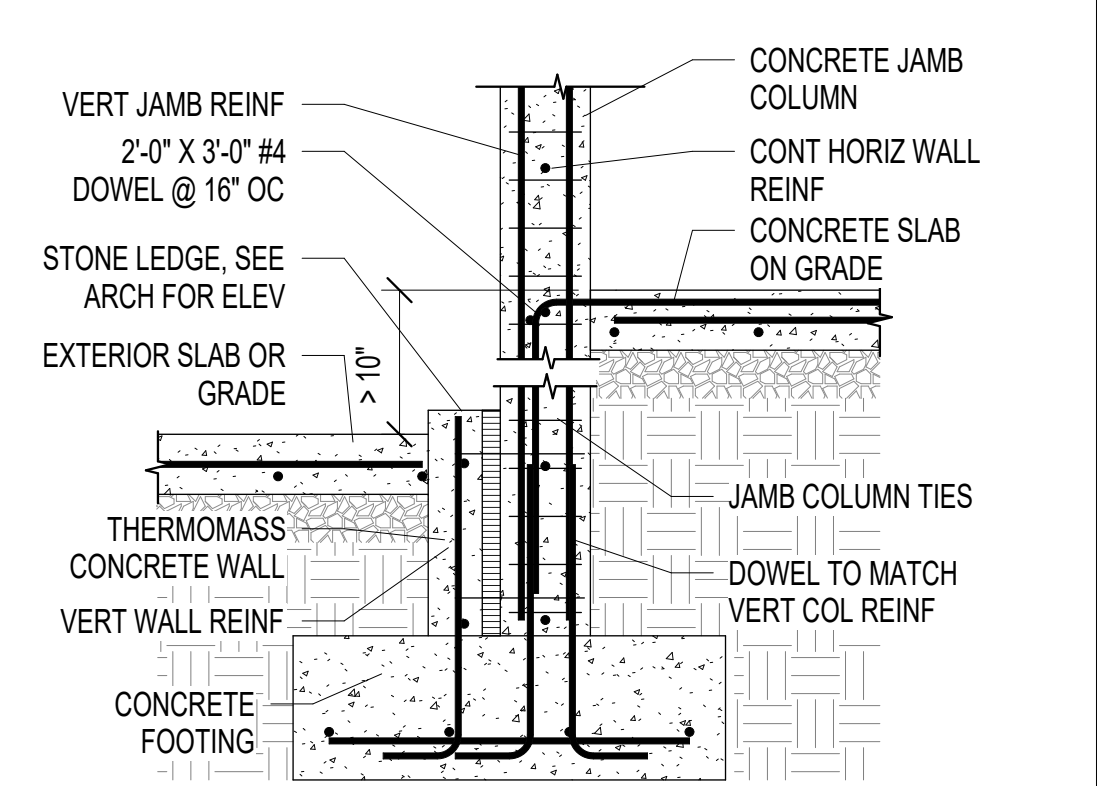
E5 S501 TYPICAL CONCRETE WALL ON FOOTING  
 Scale: NTS



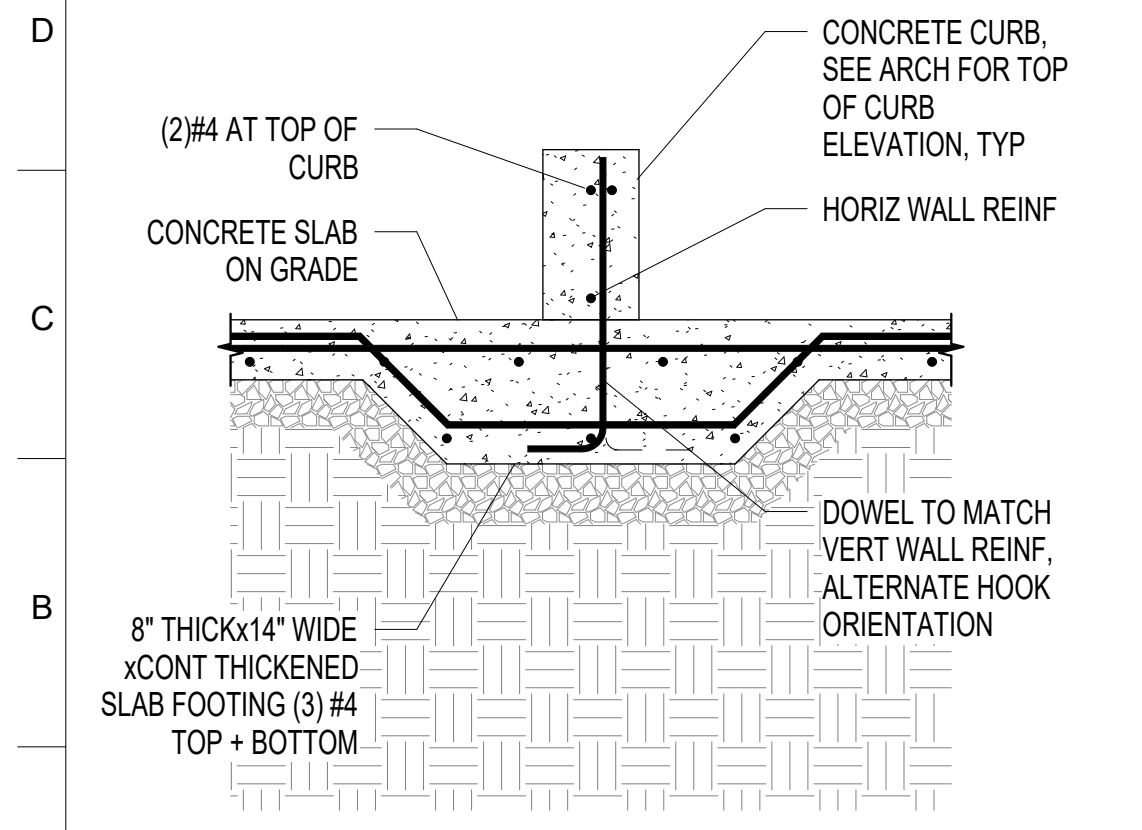
E9 S501 TYPICAL CONCRETE COLUMN ON FOOTINGS  
 Scale: NTS



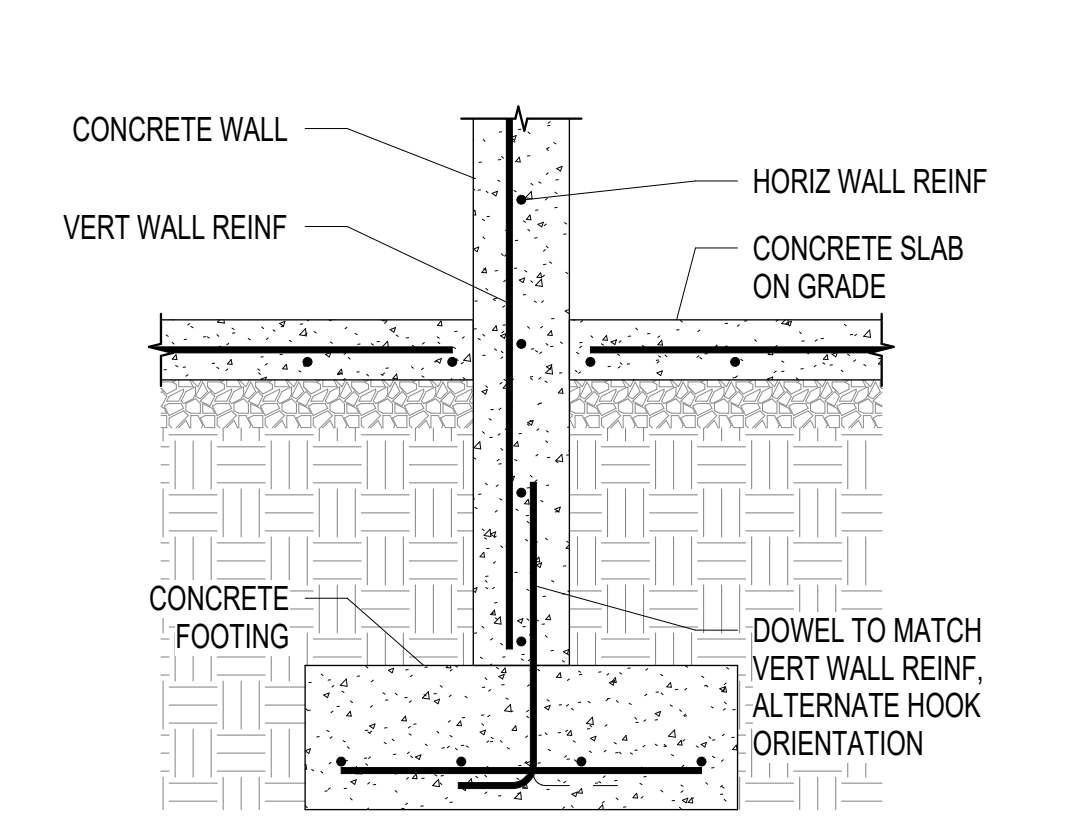
E13 S501 TYPICAL CONCRETE WALL @ SLAB STEP  
 Scale: NTS



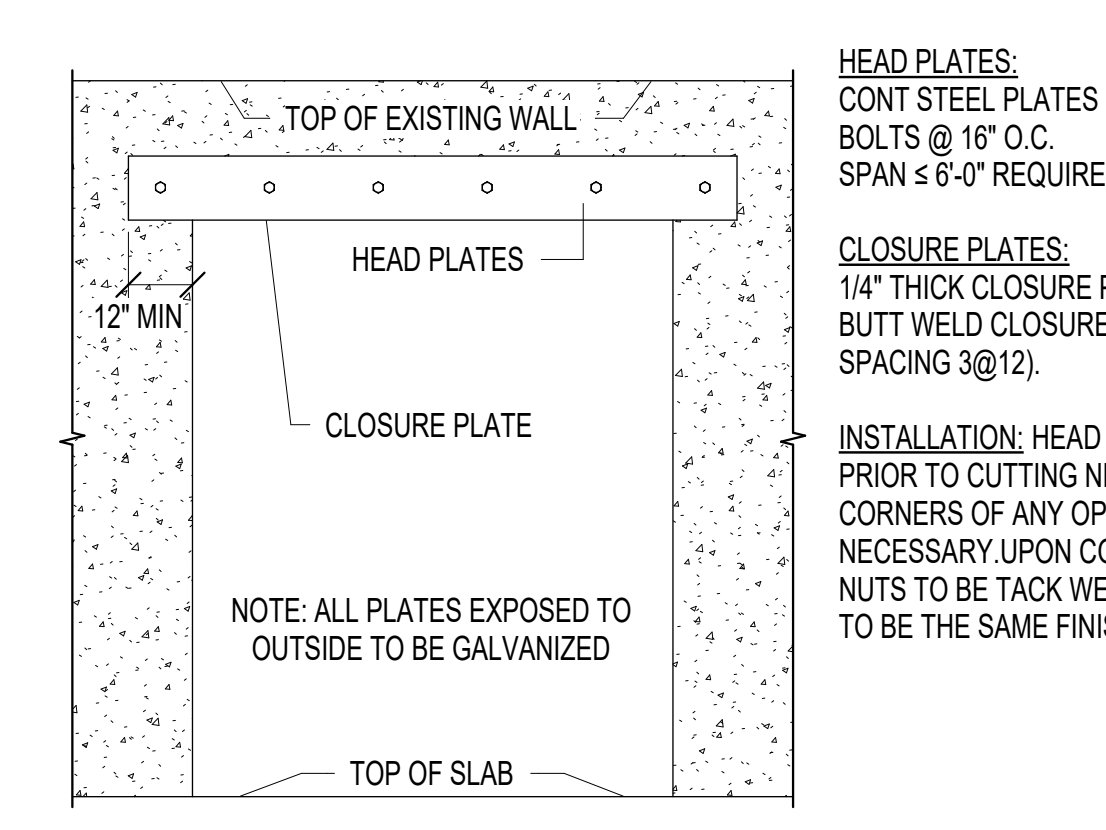
E17 S501 TYPICAL CONCRETE COLUMN @ SLAB STEP  
 Scale: NTS



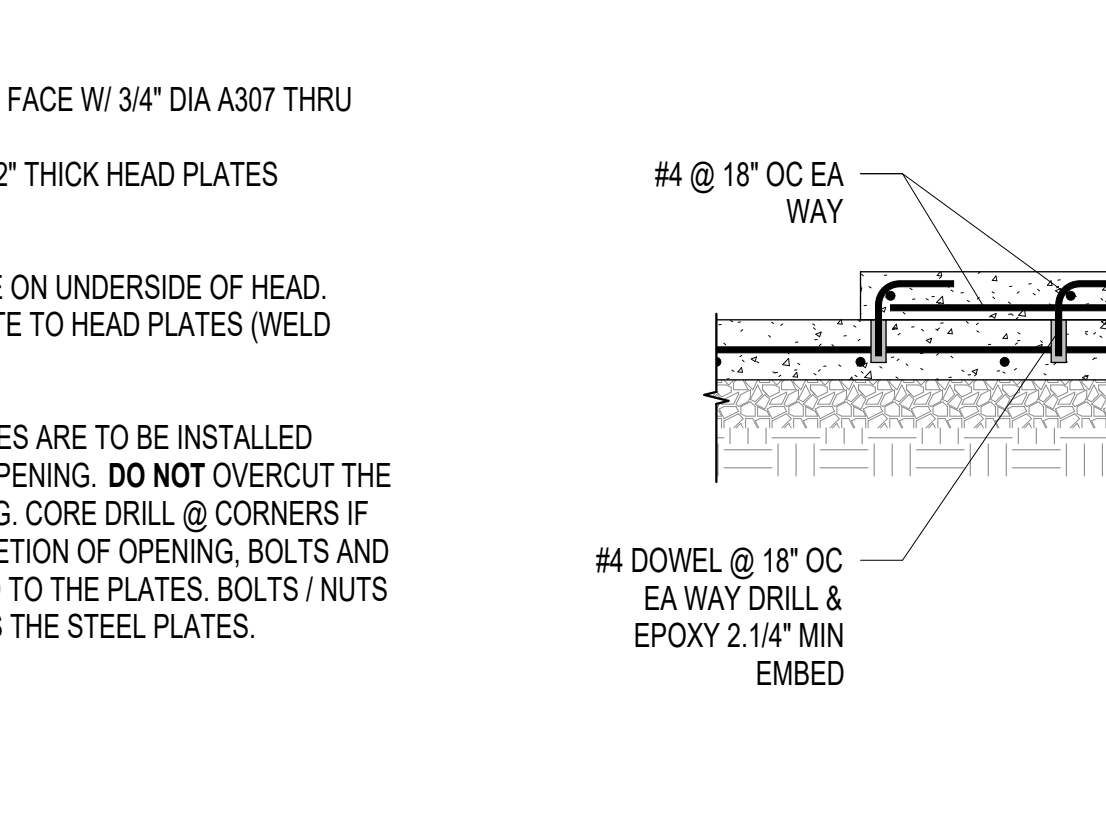
A1 S501 TYPICAL CONCRETE WALL ON INTERIOR FTG  
 Scale: NTS



A5 S501 TYPICAL INTERIOR CONCRETE WALL ON FOOTING  
 Scale: NTS



A9 S501 NEW OPENING IN EXISTING MASONRY WALL  
 Scale: NTS



A15 S501 TYPICAL SLAB HOUSEKEEPING PAD  
 Scale: NTS

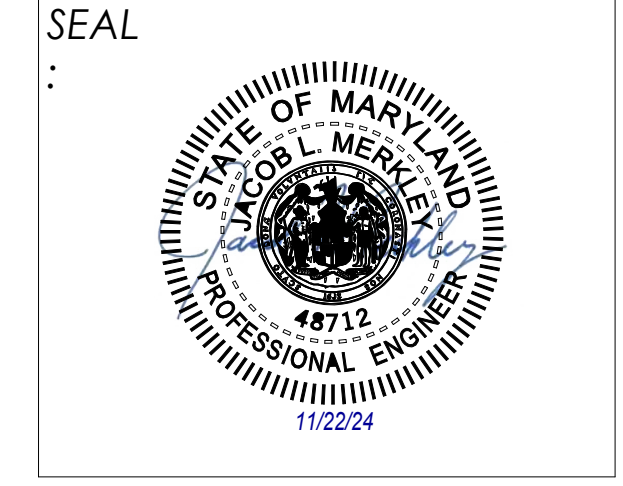


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**CLIENT:**  
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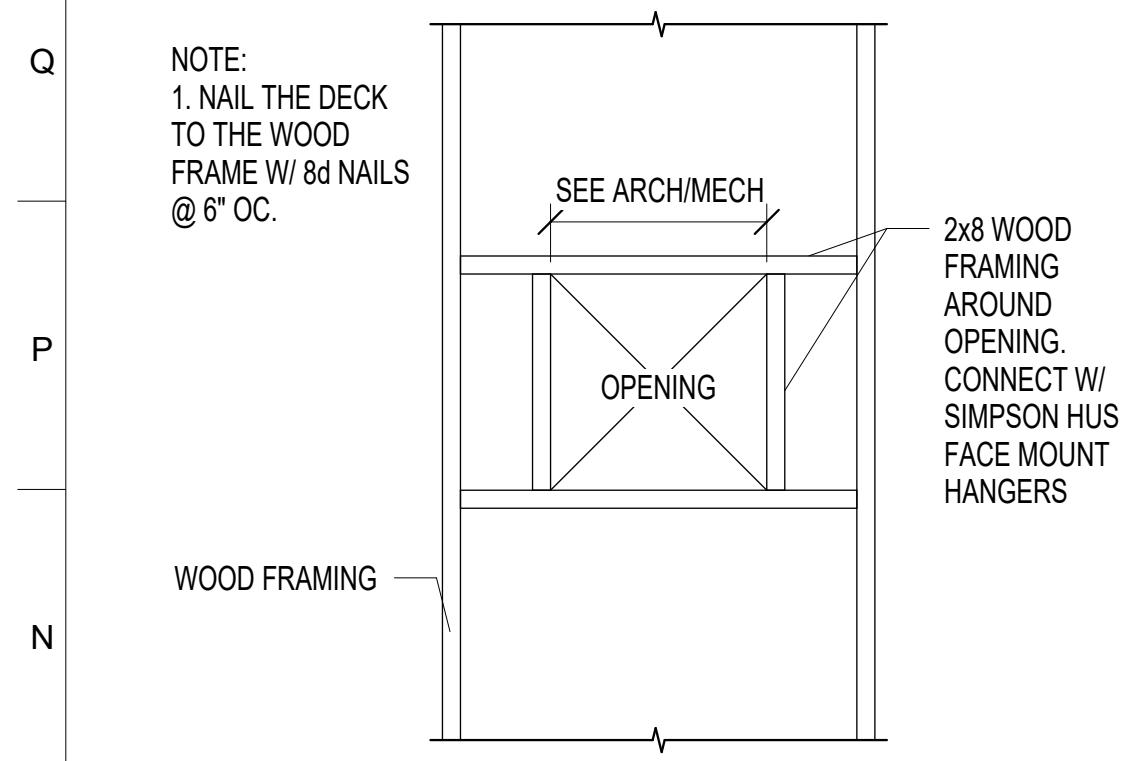
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PROJECT NO.:	2023-10-04
DRAWN BY:	SDS
CHECKED BY:	JLM
SUBMISSION DATE:	
BID SET DATE:	01/14/2025
REVISION:	DATE

**DRAWING TITLE:**  
 STRUCTURAL  
 FOUNDATION DETAILS

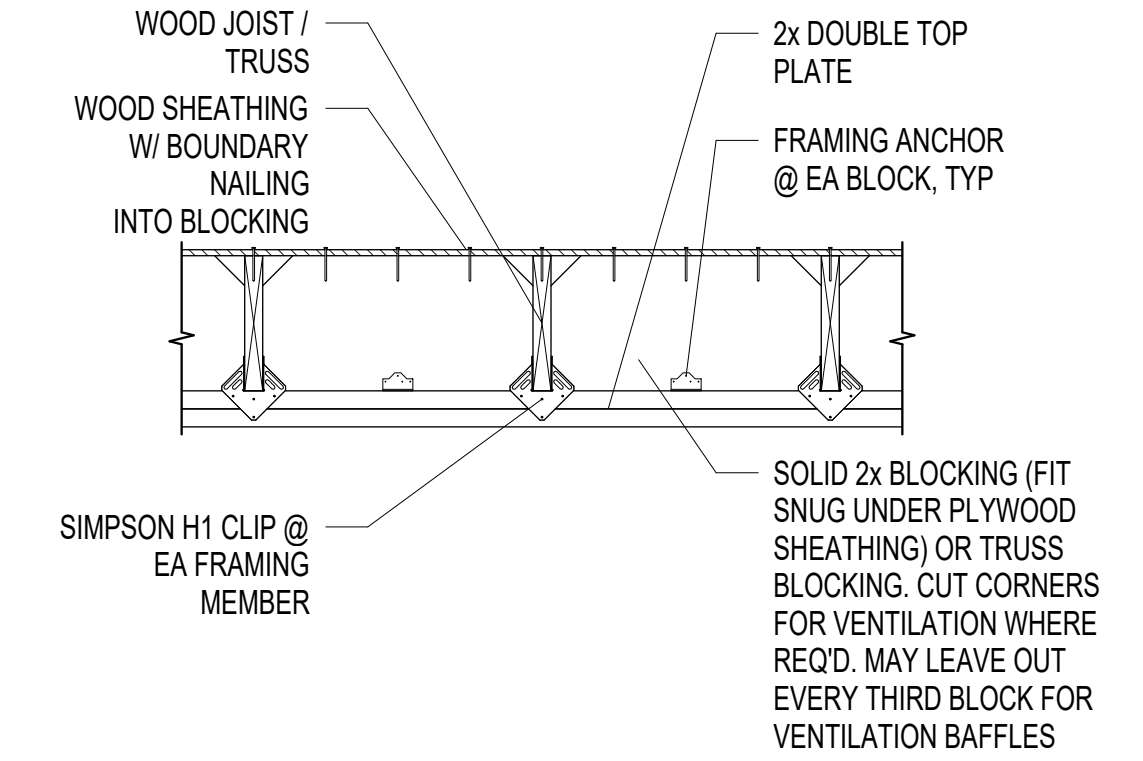
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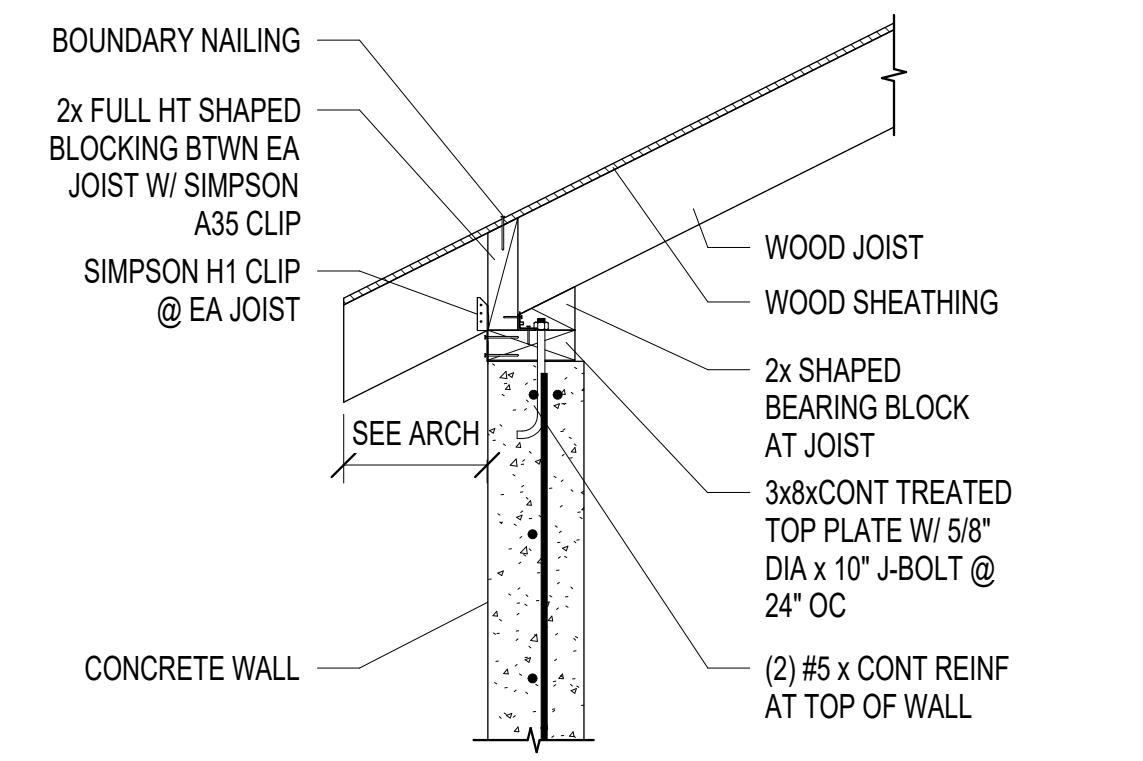




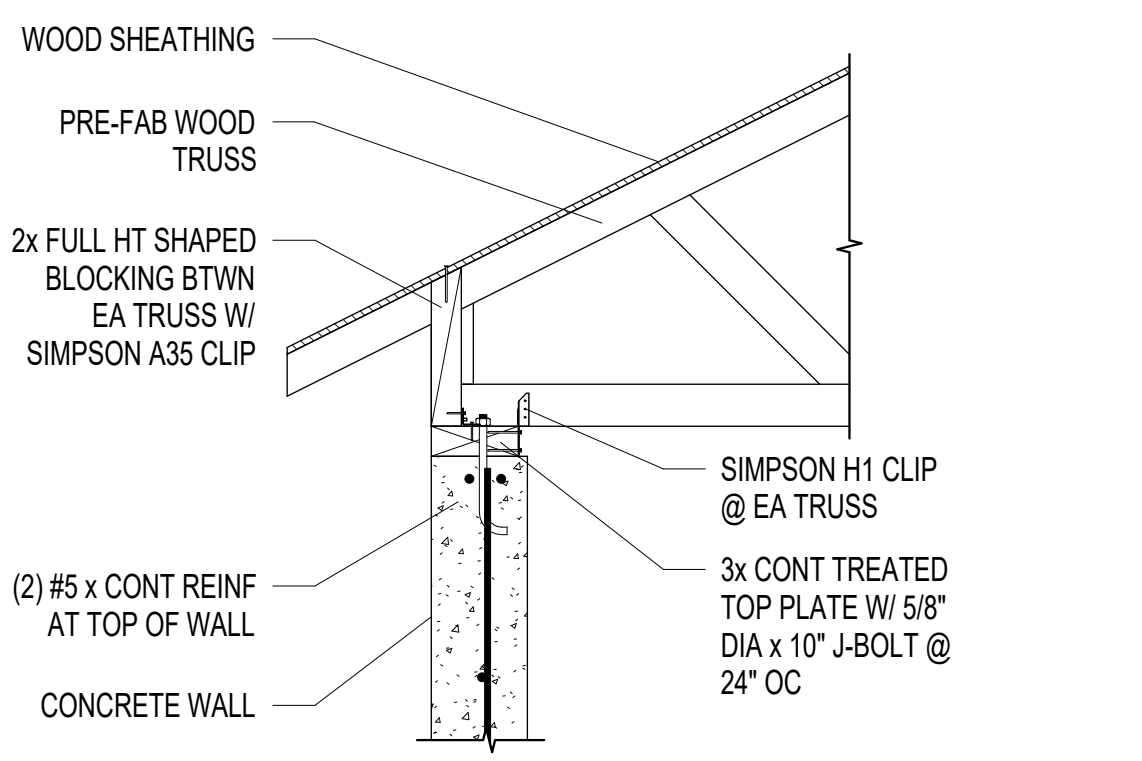
**M1**  
S521  
Scale: NTS  
**TYPICAL ROOF OPENING SUPPORT**



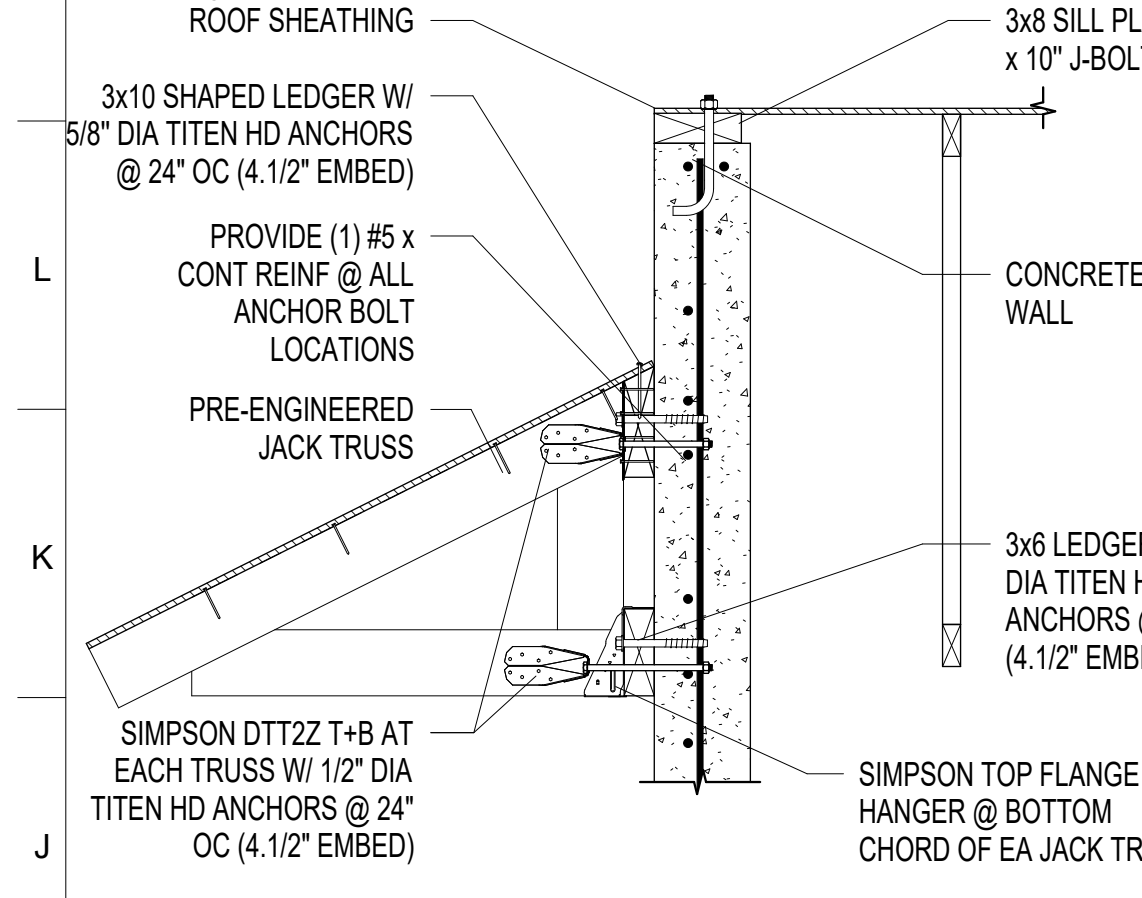
**M5**  
S521  
Scale: NTS  
**TYPICAL TRUSS/JOIST BLOCKING**



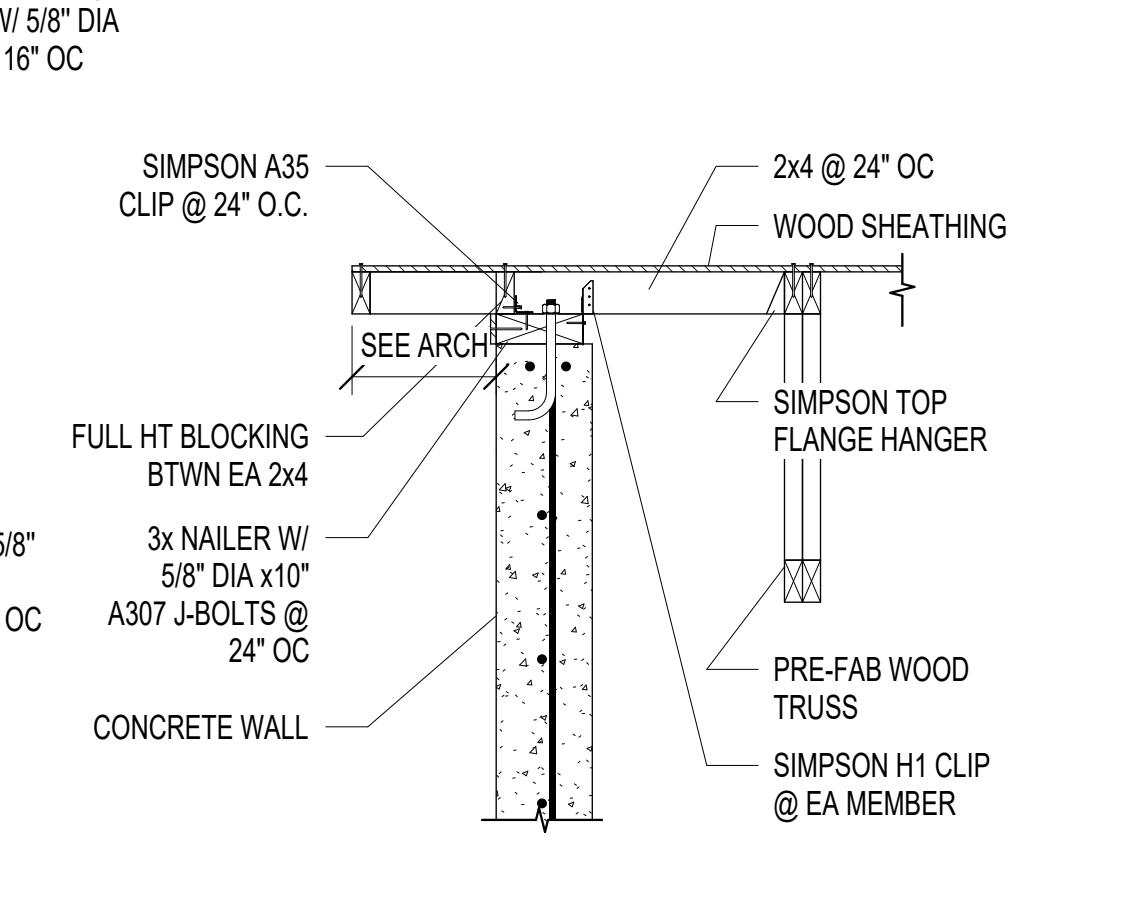
**M9**  
S521  
Scale: NTS  
**TYPICAL RAFTER TO CONCRETE WALL DETAIL**



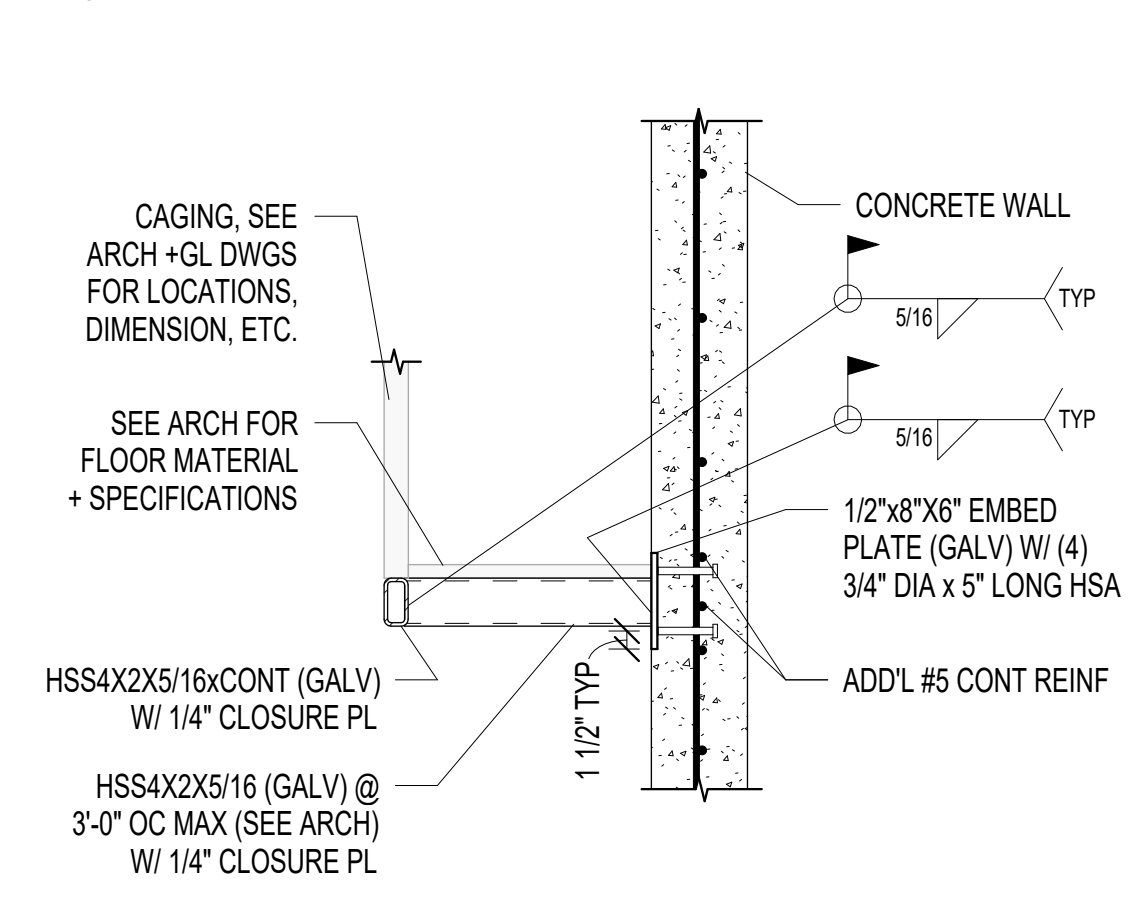
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S521  
Scale: NTS  
**TYPICAL TRUSS TO CONCRETE WALL DETAIL**



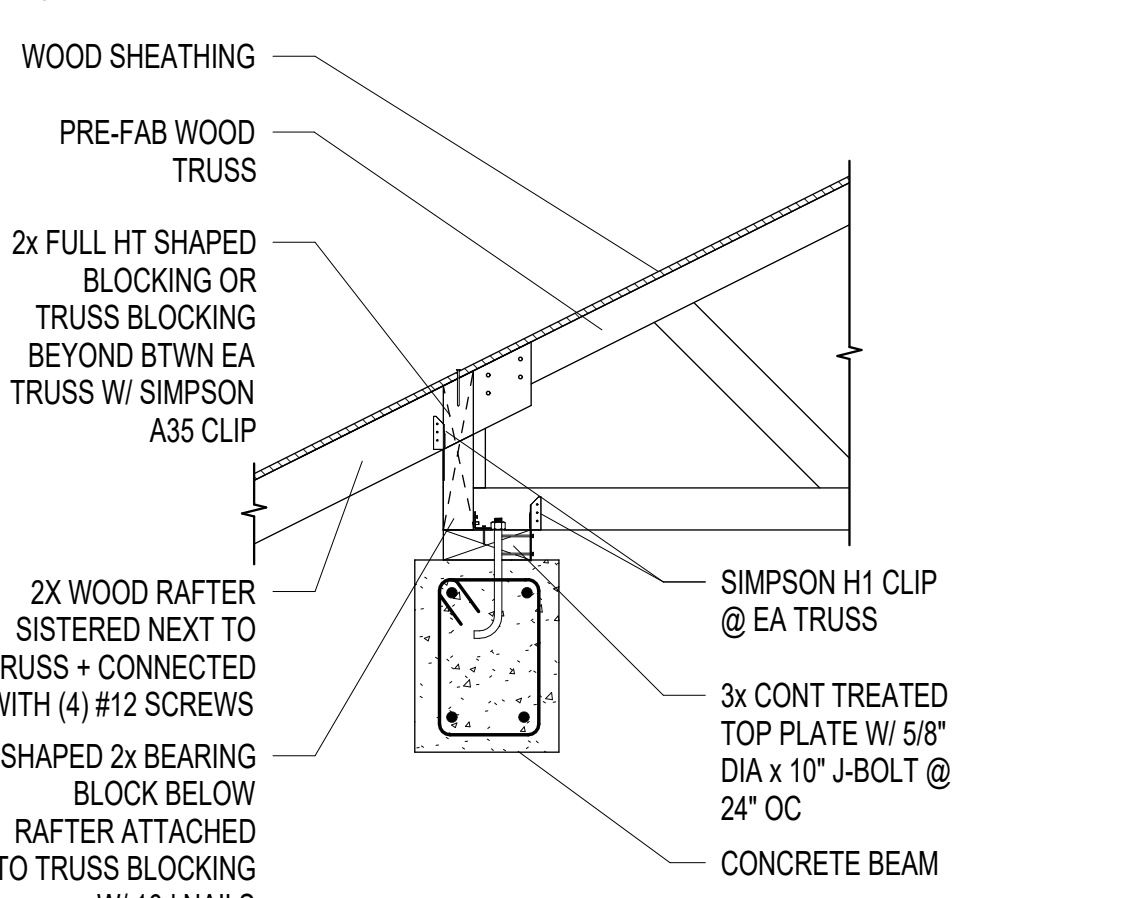
**J1**  
S521  
Scale: NTS  
**TYPICAL JACK TRUSS TO CONCRETE WALL**



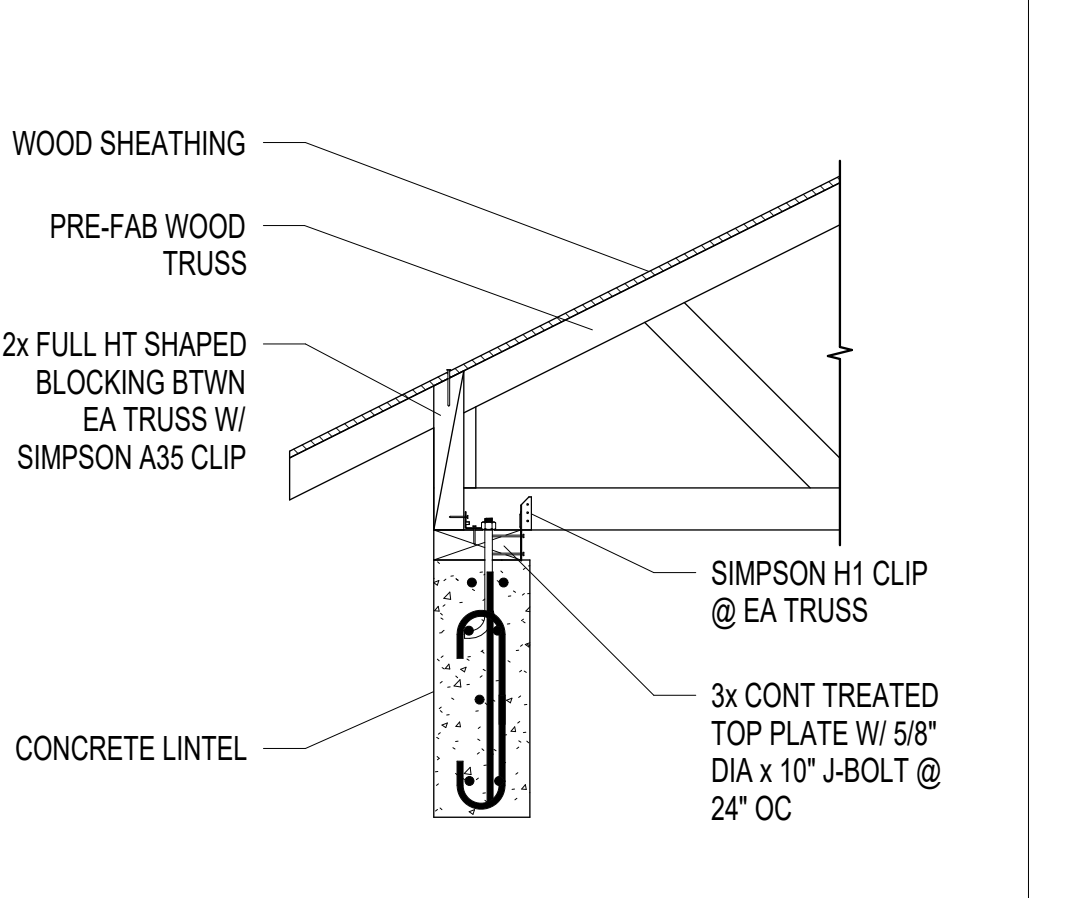
**J5**  
S521  
Scale: NTS  
**TYP GABLE CONCRETE WALL DETAIL**



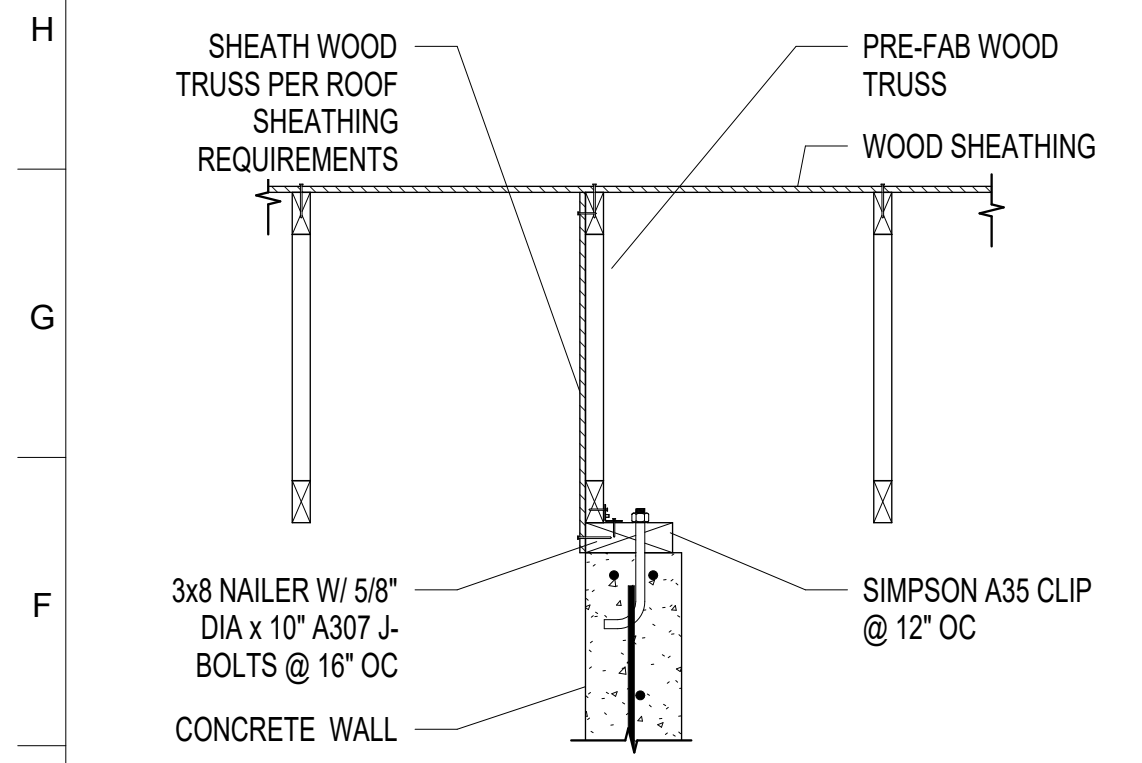
**J9**  
S521  
Scale: NTS  
**TYPICAL RED PANDA TRANSFER CHUTE DETAIL**



**J13**  
S521  
Scale: NTS  
**TYPICAL TRUSS TO CONCRETE BEAM**



**J17**  
S521  
Scale: NTS  
**TYPICAL TRUSS TO CONCRETE LINTEL**



**E1**  
S521  
Scale: NTS  
**TYP DRAG TRUSS TO CONCRETE WALL DETAIL**

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**RED PANDA**  
THE MARYLAND ZOO  
IN BALTIMORE  
1 SAFARI PLACE  
BALTIMORE, MD 21217

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DATE:	JANUARY 14, 2025
PROJECT NO:	2023-10.04
DRAWN BY:	SDS
CHECKED BY:	JLM
SUBMISSION DATE:	01/14/2025
BID SET:	
REVISION:	DATE

**DRAWING TITLE:**  
**STRUCTURAL FRAMING DETAILS**

**DRAWING NO:**  
**S521**







**PROJECT TEAM:**  
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**MEP ENGINEER:**  
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 T: 410.244.7191

**CLIENT:**  
**MARYLAND ZOO**  
 THE MARYLAND ZOO IN BALTIMORE  
 1 SAFARI PLACE  
 BALTIMORE, MD 21217

**RED PANDA**  
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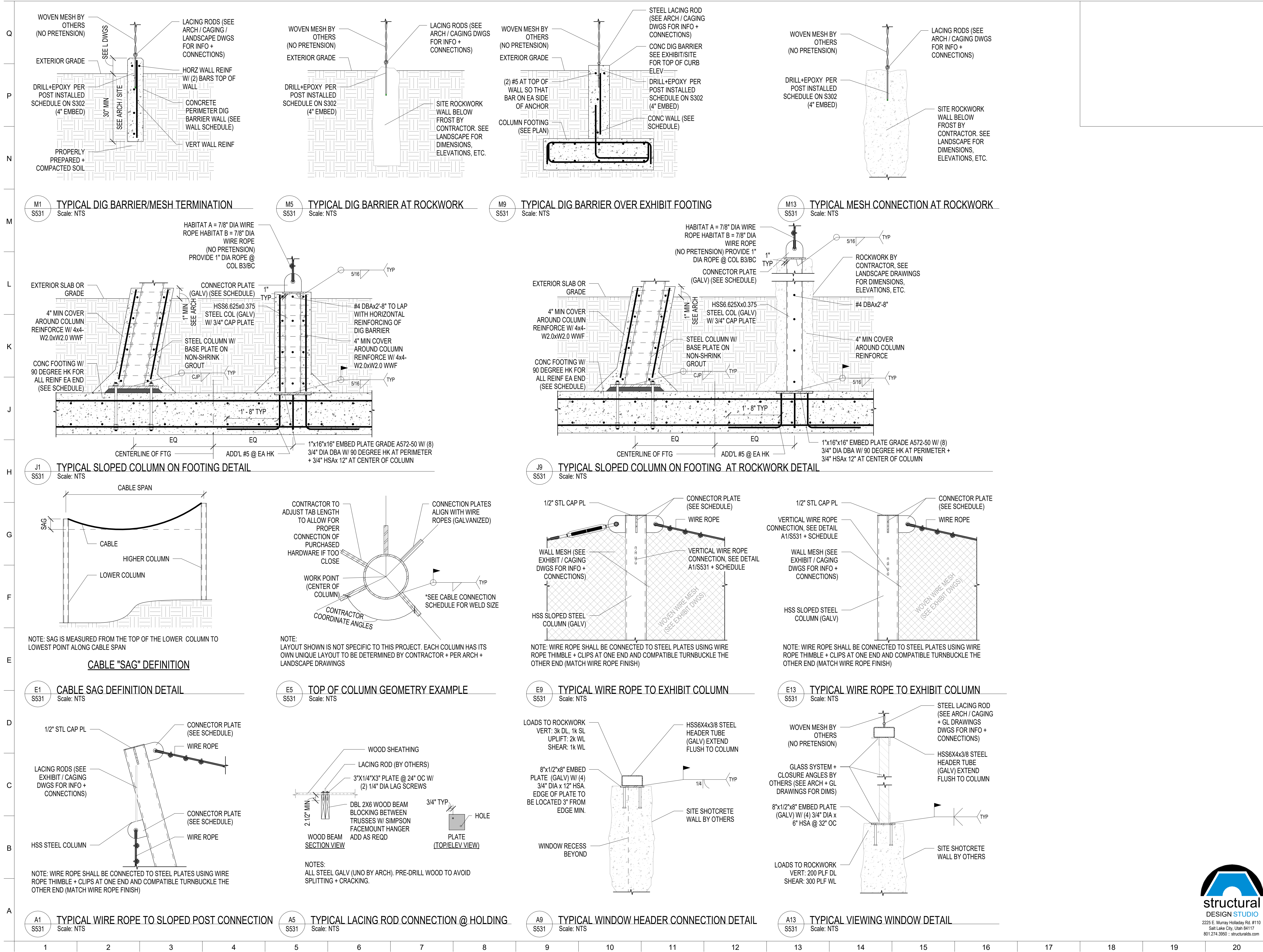
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**SEAL:**

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DRAWN BY: SDS	CHECKED BY: JLM
SUBMISSION: DATE	BID SET: 01/14/2025
REVISION: DATE	

**DRAWING TITLE:**  
 EXHIBIT STRUCTURAL DETAILS

**DRAWING NO:**  
 S531







PROJECT TEAM:

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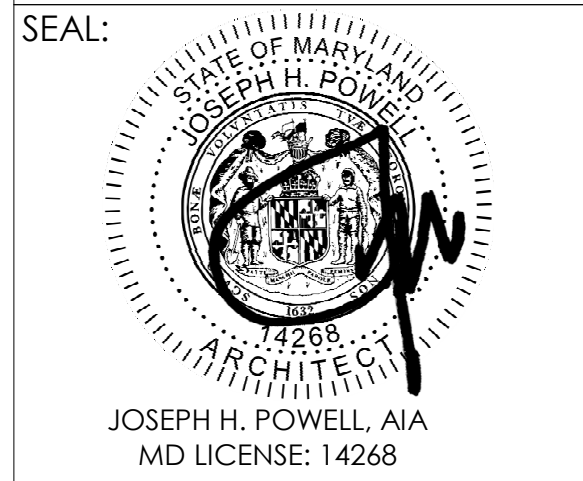
**MEP ENGINEER:**  
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 190 WEST OSTEND ST, STE 300  
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DRAWING TITLE:  
 EXG STRUCTURE DEMO FLOOR PLAN

DRAWING NO:  
**AD210**



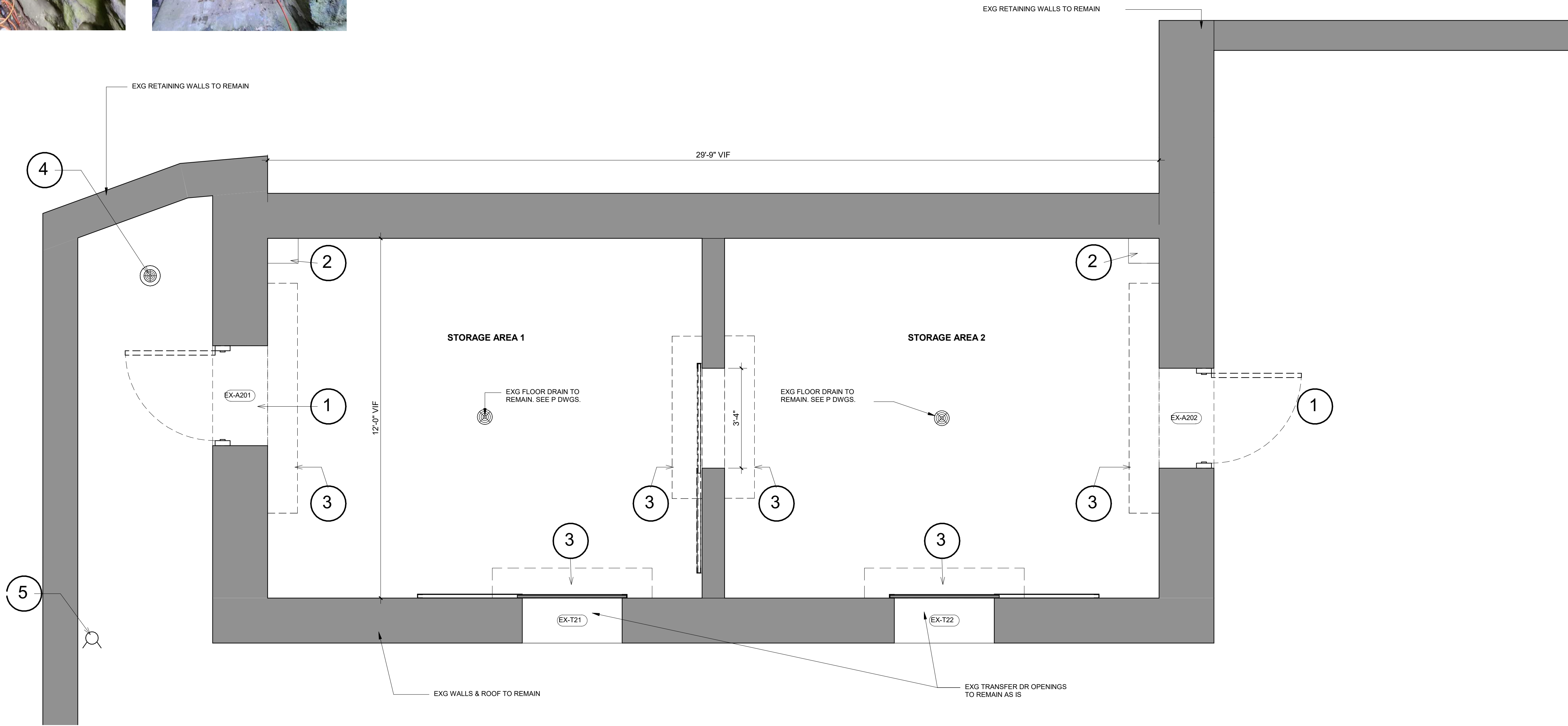
DEMOLITION LEGEND	
	Project Boundary
	Existing wall or building component to be removed or modified. See notes for extents.
	Existing walls to remain
	Keynote

Demo Key Notes	
1	Saw cut new door openings. Patch and repair existing walls and floor as needed to match adjacent. See new work plan. Reference A001 for door types and door schedules.
2	Remove existing concrete drinkers. Repair and patch floors as needed to match adjacent.
3	Remove concrete curb. Repair and patch floors.
4	Raise existing floor drain.
5	Existing hydrant to remain. See c dwg.

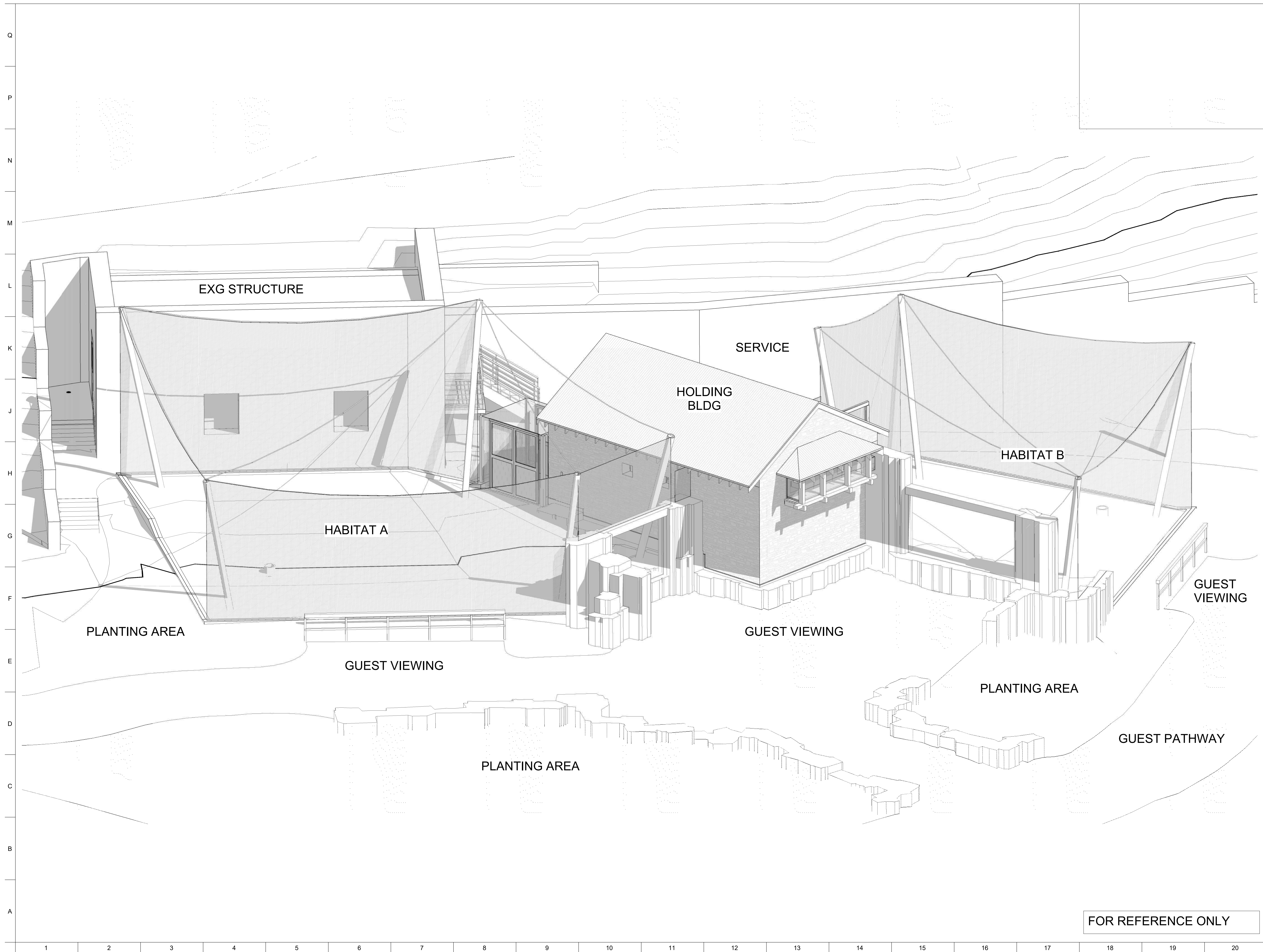
Demo General Notes	
1.	It is the responsibility of the Demolition/Contractor to fully coordinate and compare record drawings with proposed drawing details to accurately size the extent of the demolition needed to accommodate new architectural components.
2.	Contractor shall verify all existing conditions prior to construction. Contractor shall notify Owner's representative of discrepancies prior to construction.
3.	Contractor access for construction shall be as directed by Owner's representative.
4.	Staging areas and on-site storage of contractor equipment shall be reviewed and approved by the Owner prior to the beginning of construction.
5.	The Zoo shall remain open during construction. Contractor shall protect the general public from construction areas during construction. Contractor shall coordinate with Owner's representative prior to construction.
6.	Photographs are provided to assist in describing existing conditions. Contractor must field verify for accuracy and full extent of work.



A1 EXISTING STRUCTURE DEMO FLOOR PLAN

1/2" = 1'-0"	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
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**LANDSCAPE ARCHITECT:**  
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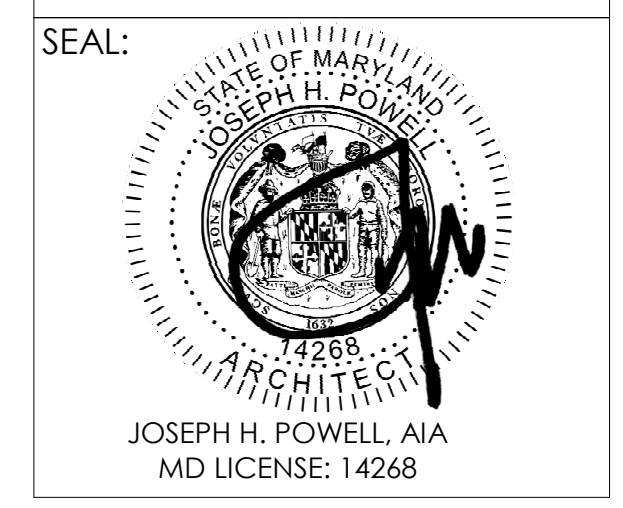
**MEP ENGINEER:**  
 KOVACS, WHITNEY & ASSOCIATES  
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DRAWING TITLE:  
 3D VIEW

DRAWING NO.:  
**A001**

FOR REFERENCE ONLY





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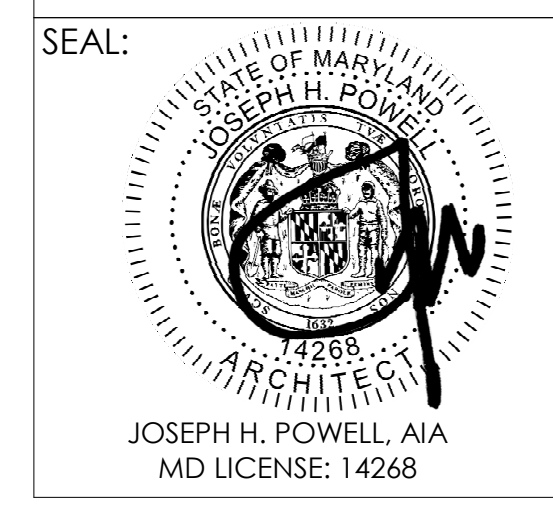
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DRAWING TITLE:  
 DOOR & FINISH SCHEDULES, DOOR & FRAME TYPES

DRAWING NO:  
**A002**

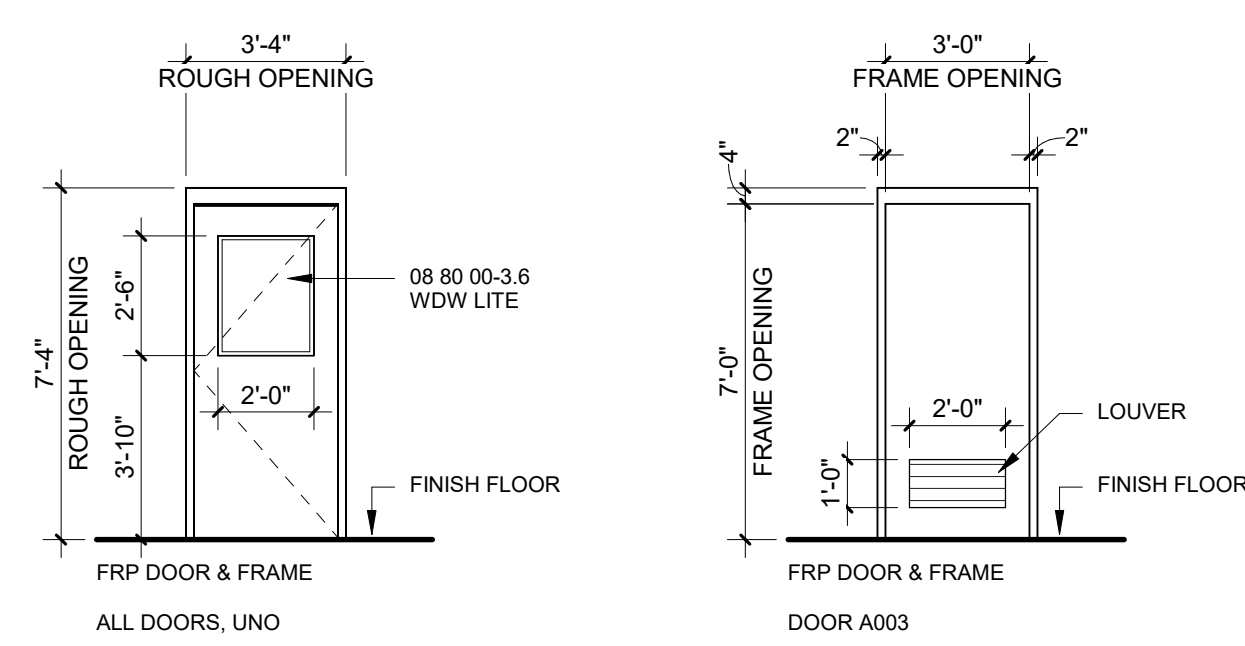
NEW DOOR HARDWARE MATRIX										
DOOR #	CONT. HINGE	LOCKSET(OFF ICE)	LOCKSET (STOREROOM)	CYLINDER	CLOSER	WALL STOP	GASKETING	DRIP	SWEEP	THRESHOLD
A001	X	X		X	X		X	X	X	X
A002	X	X		X	X		X	X	X	X
A003	X	X		X	X	X	X	X	X	X
A201	X		X	X	X		X	X	X	X
A202	X		X	X	X		X	X	X	X

- NOTES:
- REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.
  - REFER TO CAGING GENERAL REQUIREMENTS CG001 FOR ANIMAL TRANSFER DOORS AND KEEPER DOORS.

- BASIS-OF-DESIGN PRODUCTS:
- CONTINUOUS HINGE - PEMKO FM\_HD1
  - LOCKSET (OFFICE) - BEST 487A3S
  - LOCKSET (STOREROOM) - BEST 49HTD3S
  - CYLINDER - BEST
  - CLOSER - LCN 4030-3077CNS (CUSH)
  - WALL STOP - ROCKWOOD-474
  - GASKETING - PEMKO 305\_S
  - DRIP - PEMKO 346C (FULL WIDTH + 2")
  - SWEEP - PEMKO 28028CV
  - THRESHOLD - PEMKO 282X8AFG (FULL WIDTH + 2")

L10 DOOR HARDWARE MATRIX AND BASIS-OF-DESIGN

NTS



- NOTES:
- REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.

F10 DOOR AND FRAME TYPES

NTS

HOLDING BUILDING DOOR SCHEDULE							
DOOR NO.	ROUGH OPENING		DOOR		FRAME		NOTES
	WIDTH	HEIGHT	MATERIAL	FINISH	MATERIAL	FINISH	
A001	3' - 4"	7' - 4"	FRP	PNT	FRP	PNT	WDW LITE
A002	3' - 4"	7' - 4"	FRP	PNT	FRP	PNT	WDW LITE
A003	3' - 4"	7' - 4"	FRP	PNT	FRP	PNT	LOUVER

- NOTES:
- REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.
  - REFER TO CAGING GENERAL REQUIREMENTS CG001 FOR ANIMAL TRANSFER DOORS AND KEEPER DOORS.

L1 DOOR SCHEDULE - HOLDING BUILDING

NTS

EXISTING STRUCTURE DOOR SCHEDULE							
DOOR NO.	ROUGH OPENING		DOOR		FRAME		NOTES
	WIDTH	HEIGHT	MATERIAL	FINISH	MATERIAL	FINISH	
A201	3' - 4"	7' - 4"	FRP	PNT	FRP	PNT	WDW LITE
A202	3' - 4"	7' - 4"	FRP	PNT	FRP	PNT	WDW LITE

- NOTES:
- REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.
  - REFER TO CAGING GENERAL REQUIREMENTS CG001 FOR ANIMAL TRANSFER DOORS AND KEEPER DOORS.

F1 DOOR SCHEDULE - EXISTING STRUCTURE

NTS

FINISH SCHEDULE															
ROOM NO.	NAME	FLOOR	BASE	FINISH	WALLS				CEILING				NOTES		
					NORTH MATERIAL	FINISH	EAST MATERIAL	FINISH	SOUTH MATERIAL	FINISH	WEST MATERIAL	FINISH		MATERIAL	FINISH
A101	STALL 1		CLEAR PENETRATING SILICONE SEALER - 099600-3.6.B.1	CLEAR PENETRATING SILICONE SEALER - 099600-3.6.B.1	CONC	PNT - 099600-3.6.A.1	CONC	PNT - 099600-3.6.A.1	CAGING	SEE CG DWGS	CAGING	SEE CG DWGS	MARINE GRADE PLY	EPOXY - 099600-3.6.C.1	
A102	STALL 2		CLEAR PENETRATING SILICONE SEALER - 099600-3.6.B.1	CLEAR PENETRATING SILICONE SEALER - 099600-3.6.B.1	CAGING	SEE CG DWGS	CONC	PNT - 099600-3.6.A.1	CAGING	SEE CG DWGS	CONC	PNT - 099600-3.6.A.1	MARINE GRADE PLY	EPOXY - 099600-3.6.C.1	
A103	STALL 3		CLEAR PENETRATING SILICONE SEALER - 099600-3.6.B.1	CLEAR PENETRATING SILICONE SEALER - 099600-3.6.B.1	CONC / CAGING	PNT - 099600-3.6.A.1	CAGING	SEE CG DWGS	CONC	PNT - 099600-3.6.A.1	CONC	PNT - 099600-3.6.A.1	MARINE GRADE PLY	EPOXY - 099600-3.6.C.1	
A104	MECH		CLEAR PENETRATING SILICONE SEALER - 099600-3.6.B.1	CLEAR PENETRATING SILICONE SEALER - 099600-3.6.B.1	CONC	PNT - 099600-3.6.A.1	CONC	PNT - 099600-3.6.A.1	CONC	PNT - 099600-3.6.A.1	CONC	PNT - 099600-3.6.A.1	EXPOSED DECK	-	
A105	KEEPER		CLEAR PENETRATING SILICONE SEALER - 099600-3.6.B.1	CLEAR PENETRATING SILICONE SEALER - 099600-3.6.B.1	CONC	PNT - 099600-3.6.A.1	CAGING	SEE CG DWGS	CAGING	SEE CG DWGS	CONC	PNT - 099600-3.6.A.1	MARINE GRADE PLY	EPOXY - 099600-3.6.C.1	
A201	STORAGE AREA 1		-	-	CONC	-	CONC	-	CONC	-	CONC	-	CONC	-	EXG TO REMAIN
A202	STORAGE AREA 2		-	-	CONC	-	CONC	-	CONC	-	CONC	-	CONC	-	EXG TO REMAIN

- FINISH SCHEDULE NOTES:
- ALL PAINT (PNT) NOTED IN THE FINISH SCHEDULE TO BE HPC [HIGH PERFORMANCE COATING] - SPEC SECTION 099600-3.6.A.1.
  - REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.

A1 FINISH SCHEDULE

NTS





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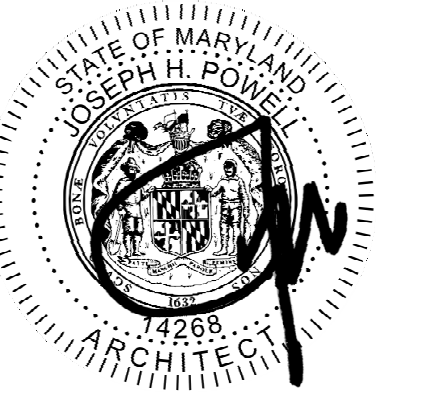
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SEAL:



JOSEPH H. POWELL, AIA  
MD LICENSE: 14268

DATE: JANUARY 14, 2025

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DRAWN BY: Author

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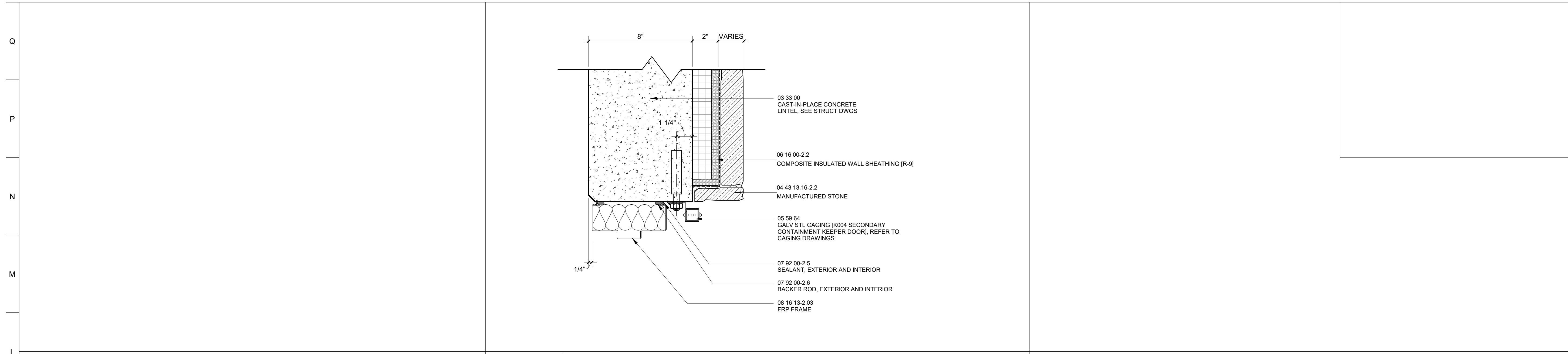
REVISION: DATE

DRAWING TITLE:

DOOR DETAILS

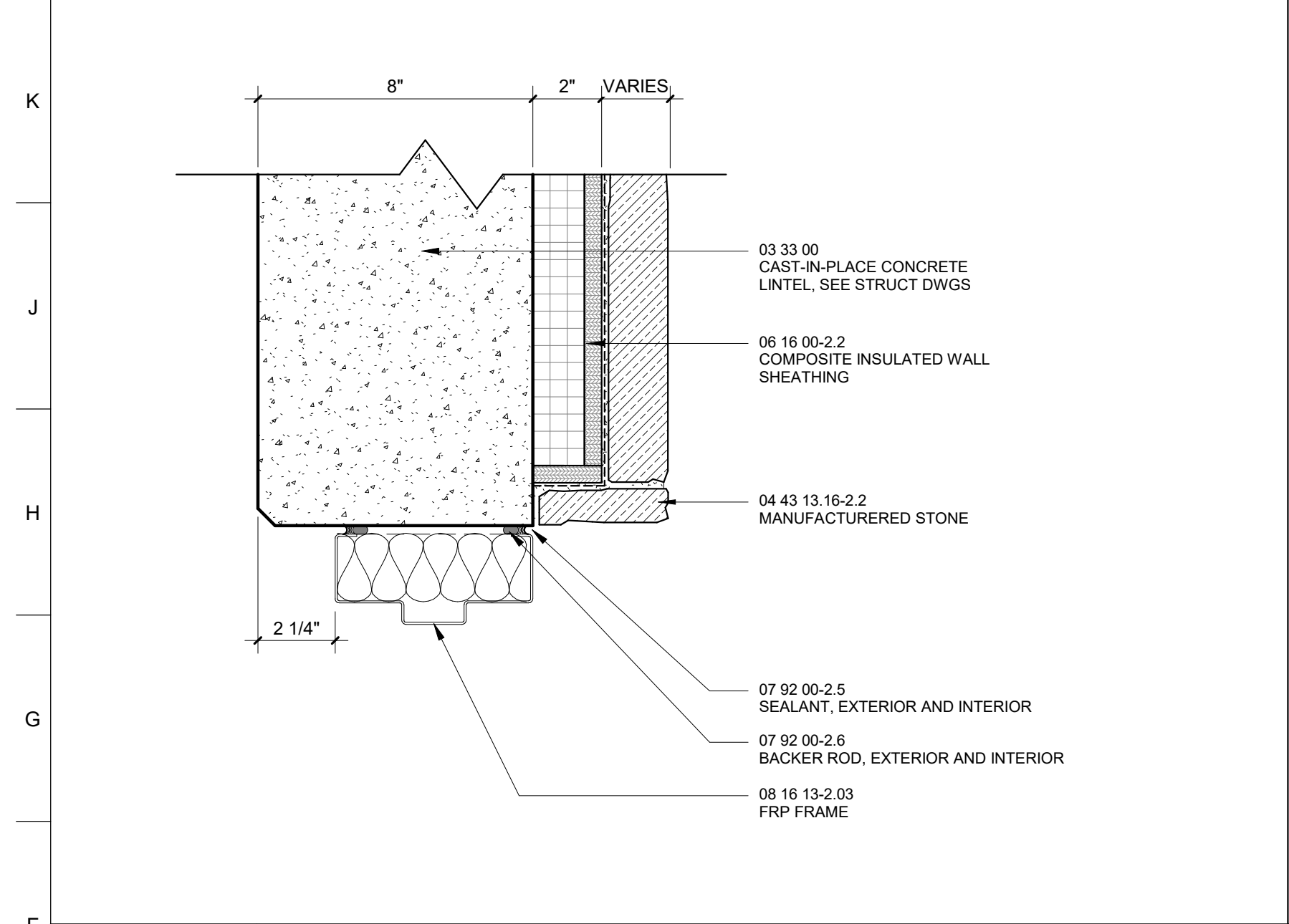
DRAWING NO:

**A003**



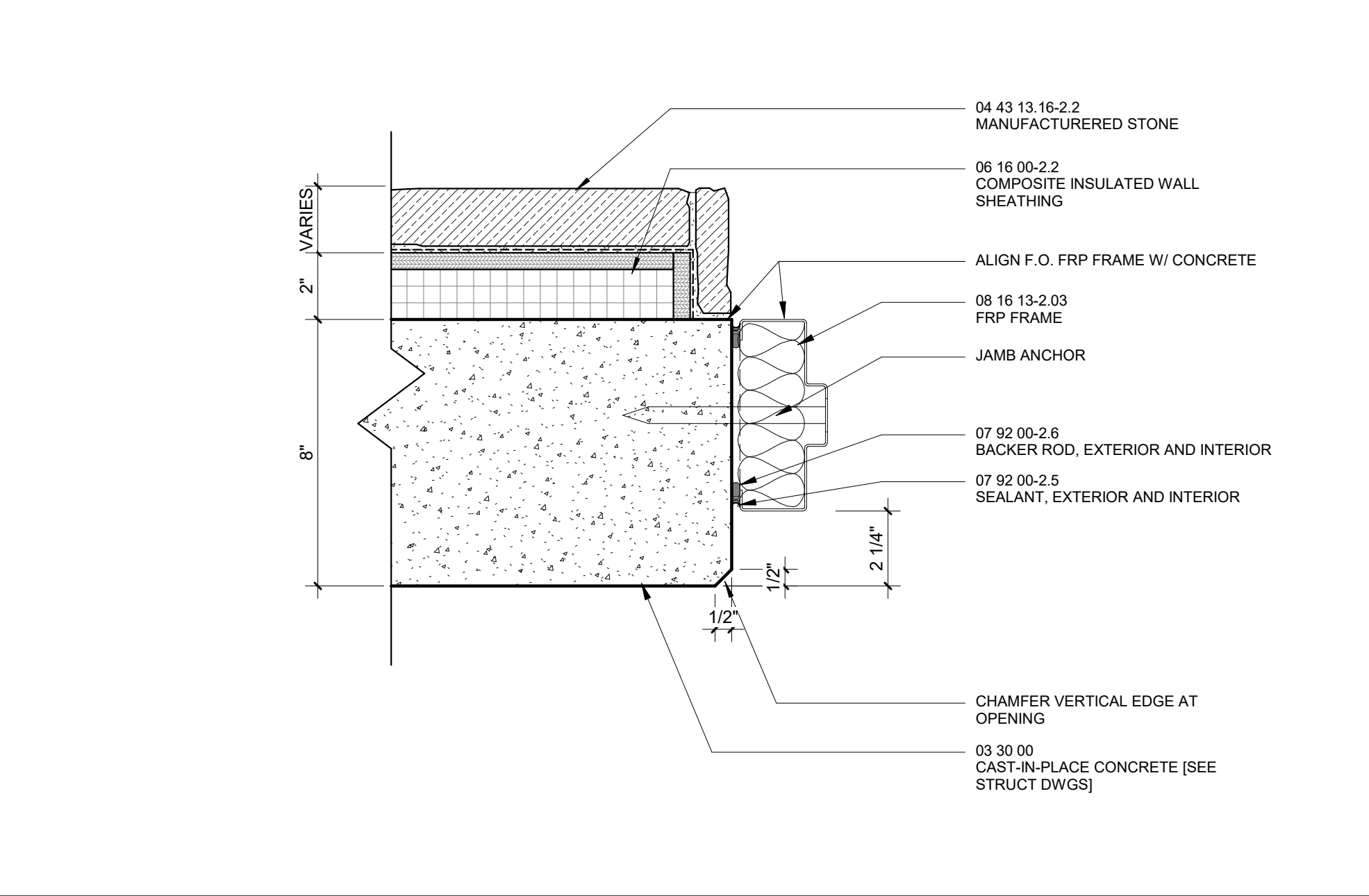
L7 DOOR A002 HEAD DETAIL - STONE VENEER

3" = 1'-0"



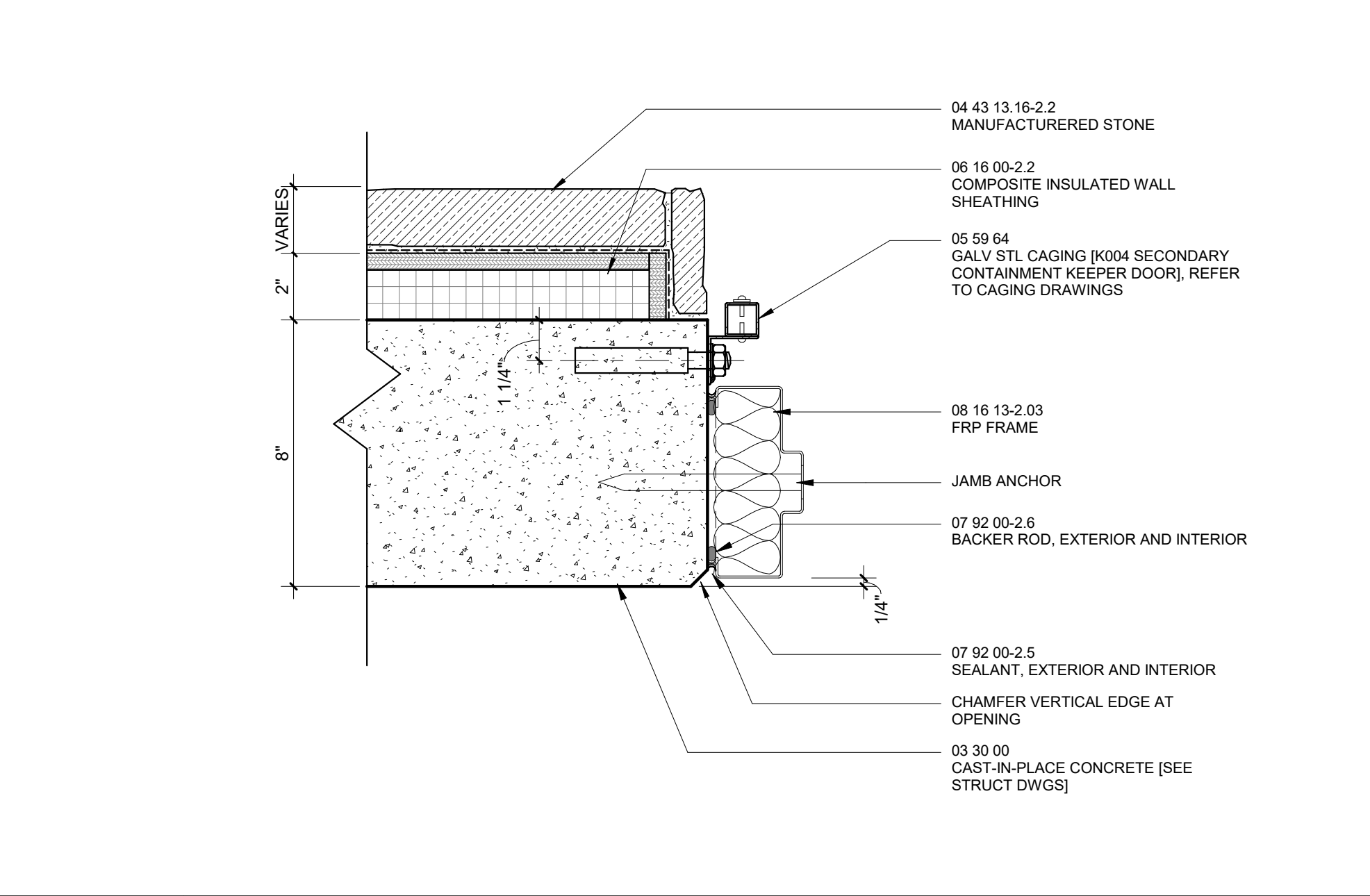
F1 DOOR HEAD DETAIL - STONE VENEER

3" = 1'-0"



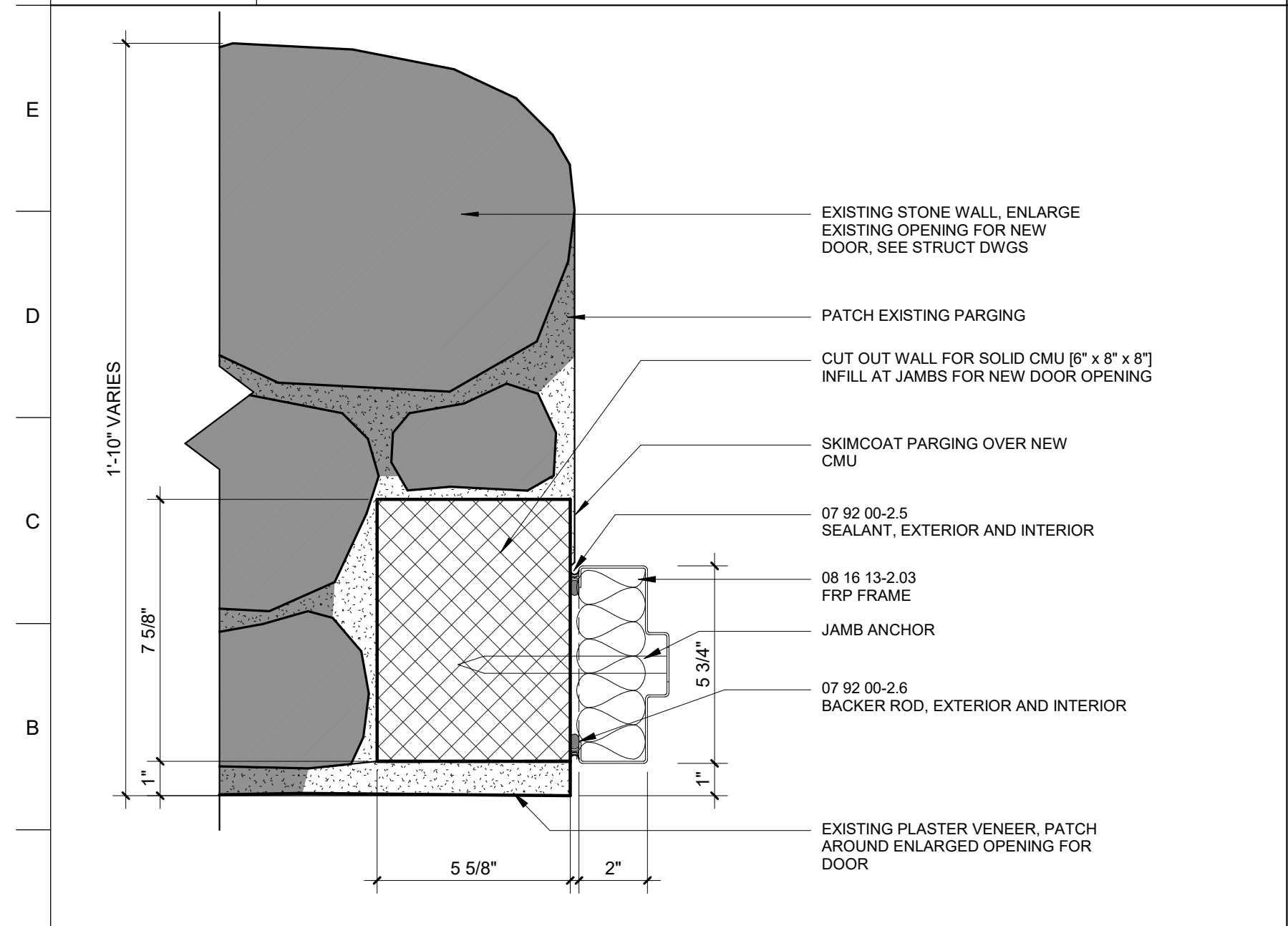
F7 DOOR JAMB DETAIL - STONE VENEER

3" = 1'-0"



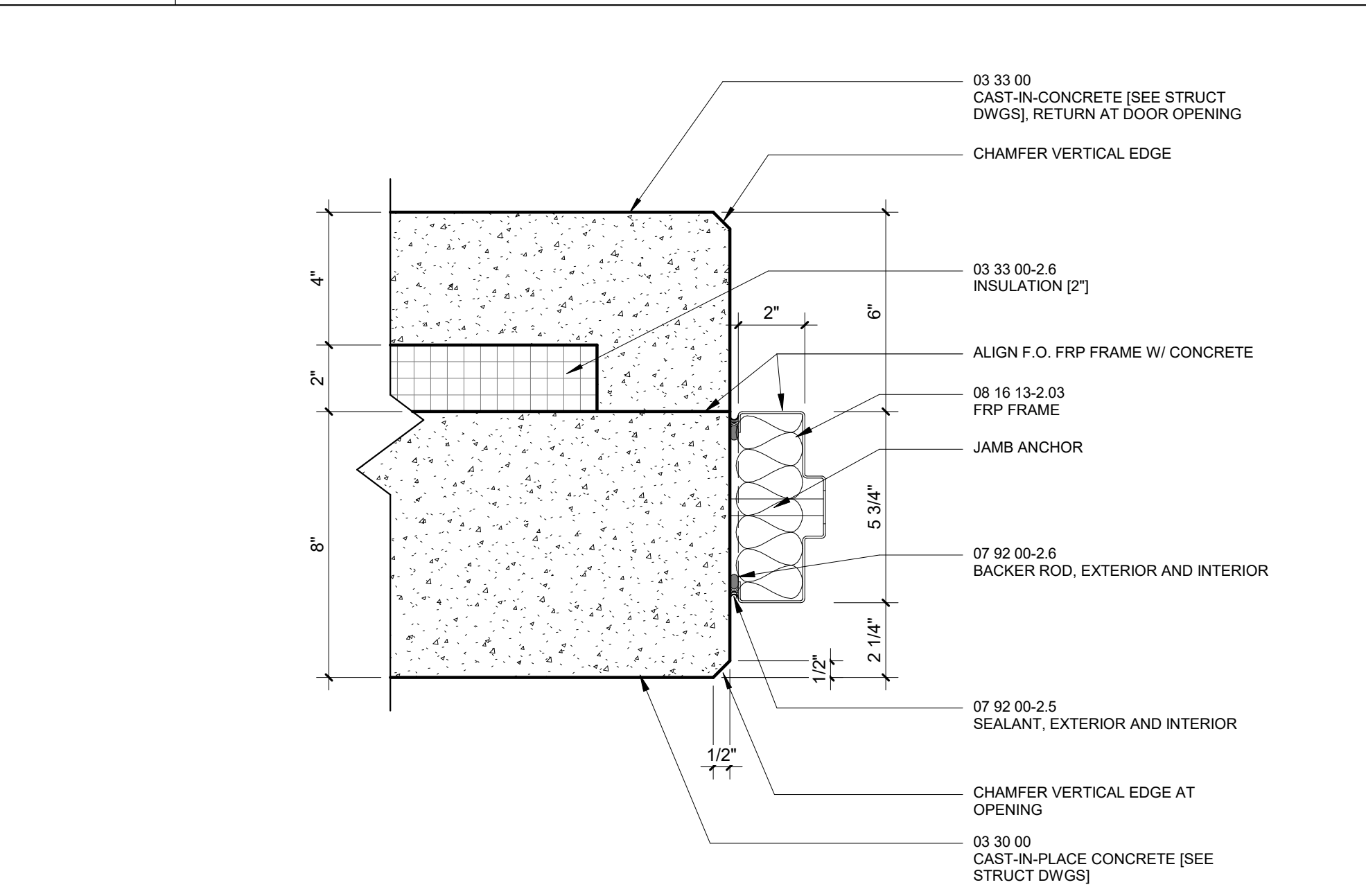
F14 DOOR A002 JAMB DETAIL - STONE VENEER

3" = 1'-0"



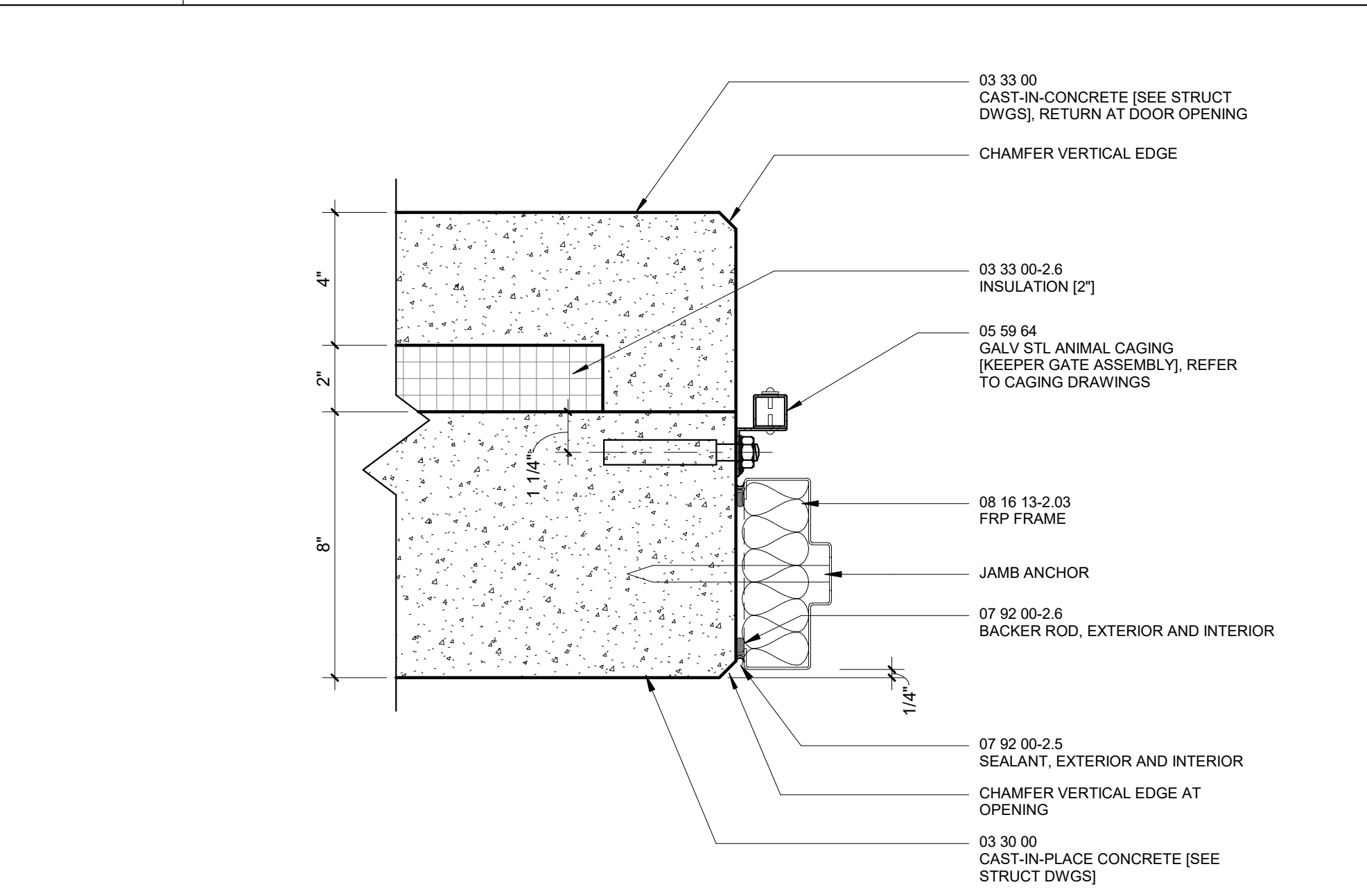
A1 DOOR JAMB DETAIL - EXG STONE WALL

3" = 1'-0"



A7 DOOR JAMB DETAIL - FOUNDATION WALL

3" = 1'-0"



A14 DOOR A002 JAMB DETAIL - FOUNDATION WALL

3" = 1'-0"



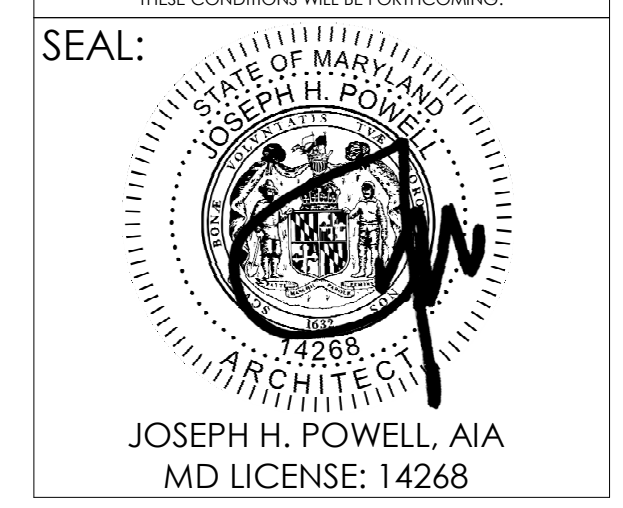


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 1 SAFARI PLACE  
 BALTIMORE, MD 21217

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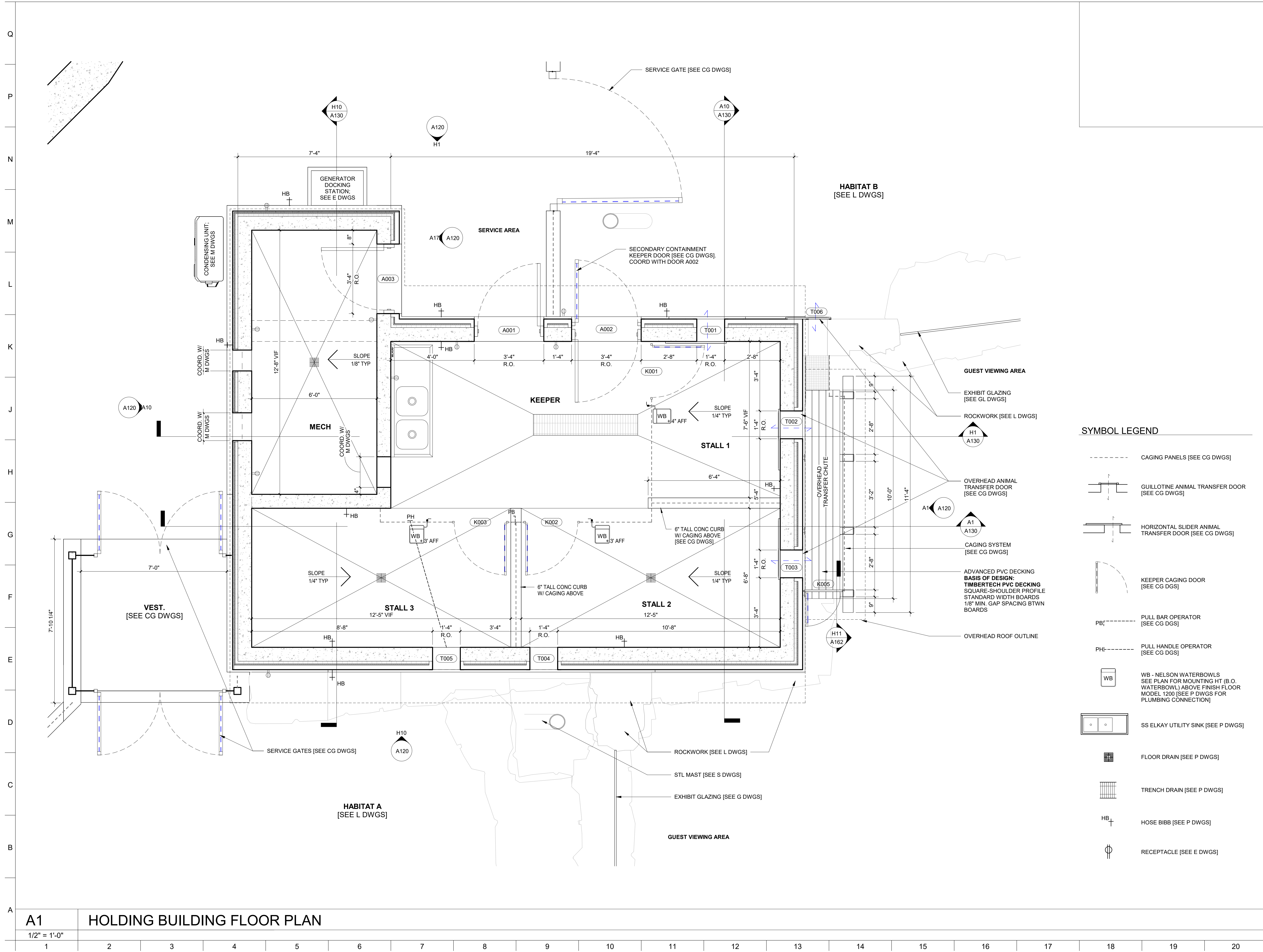


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REVISION	DATE

**DRAWING TITLE:**  
 HOLDING BUILDING PLAN

**DRAWING NO.:**  
 A110



**SYMBOL LEGEND**

- CAGING PANELS [SEE CG DWGS]
- GUILLOTINE ANIMAL TRANSFER DOOR [SEE CG DWGS]
- HORIZONTAL SLIDER ANIMAL TRANSFER DOOR [SEE CG DWGS]
- CAGING SYSTEM [SEE CG DWGS]
- KEEPER CAGING DOOR [SEE CG DGS]
- PULL BAR OPERATOR [SEE CG DGS]
- PULL HANDLE OPERATOR [SEE CG DGS]
- WB - NELSON WATERBOWLS SEE PLAN FOR MOUNTING HT. (B.O. WATERBOWL) ABOVE FINISH FLOOR MODEL 1200 [SEE P DWGS FOR PLUMBING CONNECTION]
- SS ELKAY UTILITY SINK [SEE P DWGS]
- FLOOR DRAIN [SEE P DWGS]
- TRENCH DRAIN [SEE P DWGS]
- HOSE BIBB [SEE P DWGS]
- RECEPTACLE [SEE E DWGS]

**A1** HOLDING BUILDING FLOOR PLAN  
 1/2" = 1'-0"

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
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PROJECT TEAM:

ARCHITECT:  
BUELL KRATZER POWELL, P.C.  
1525 LOCUST STREET  
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CLIENT:

**MARYLAND ZOO**  
THE MARYLAND ZOO IN BALTIMORE  
1 SAFARI PLACE  
BALTIMORE, MD 21217

**RED PANDA**  
THE MARYLAND ZOO  
IN BALTIMORE  
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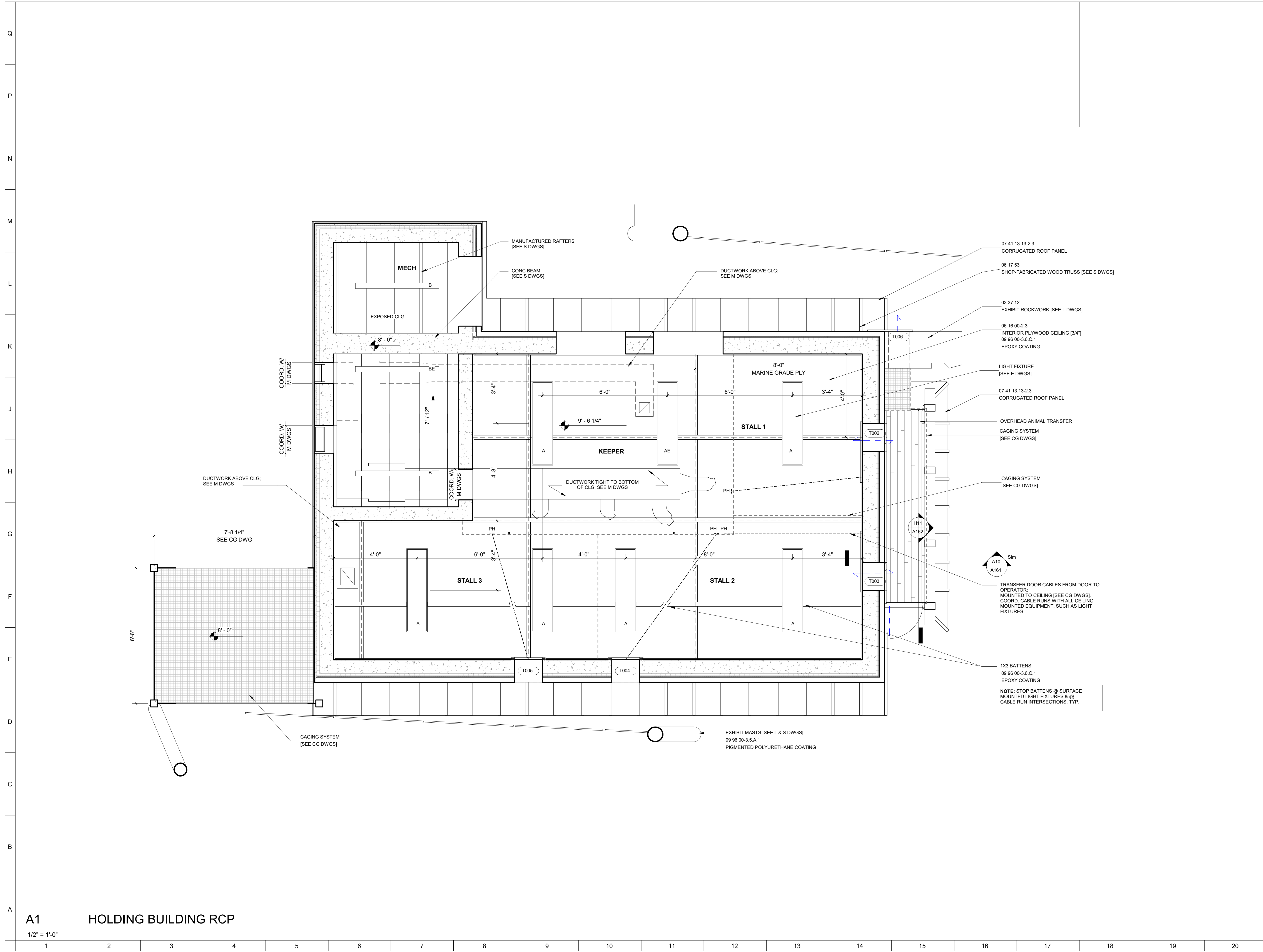
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DRAWING TITLE:  
HOLDING BUILDING  
RCP

DRAWING NO:  
**A111**



**A1** HOLDING BUILDING RCP  
1/2" = 1'-0"





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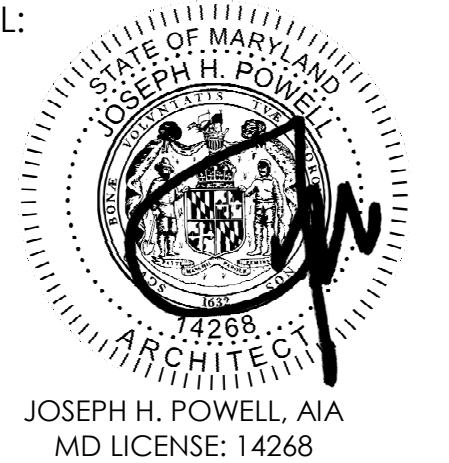
CLIENT:

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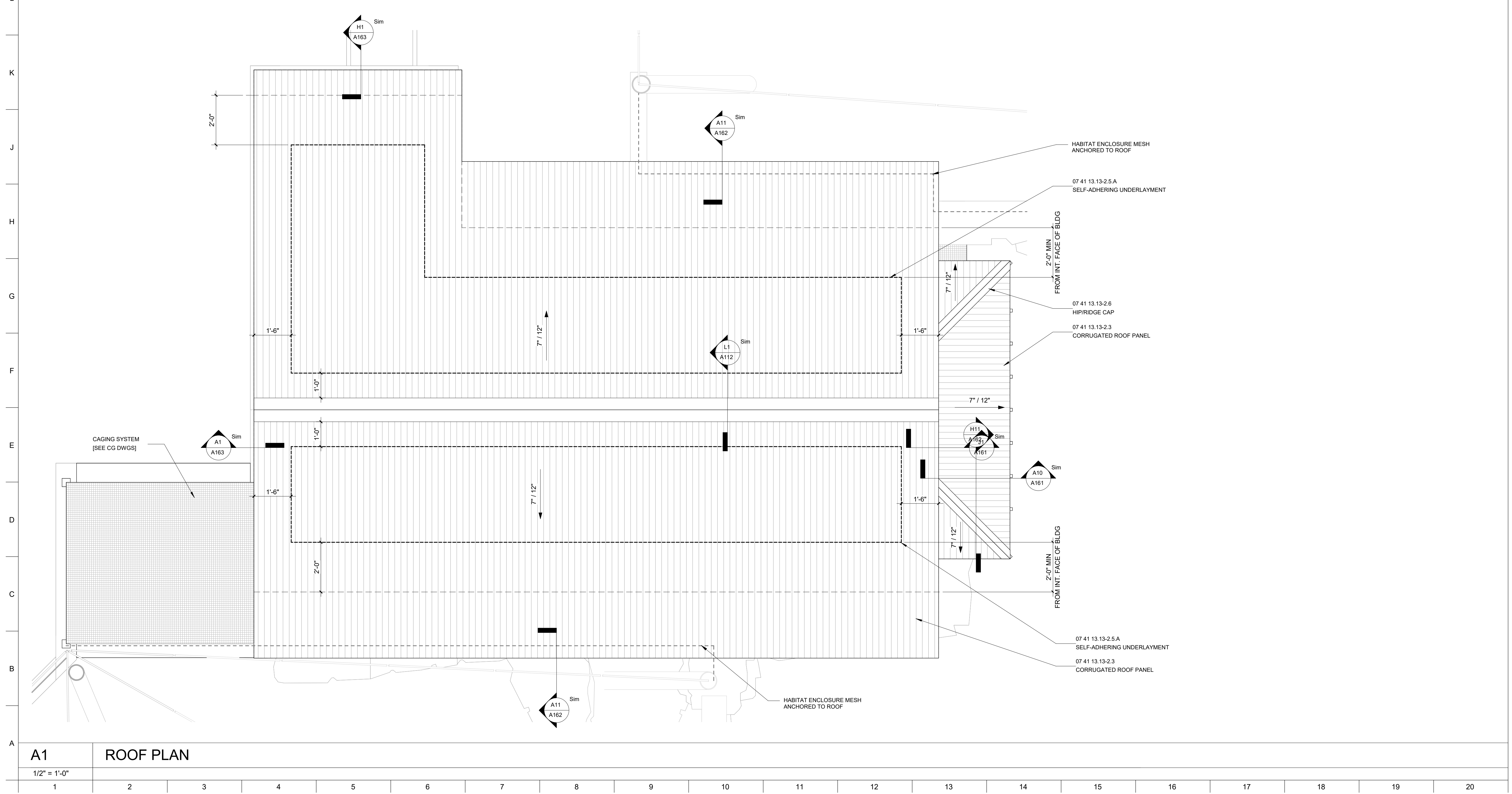
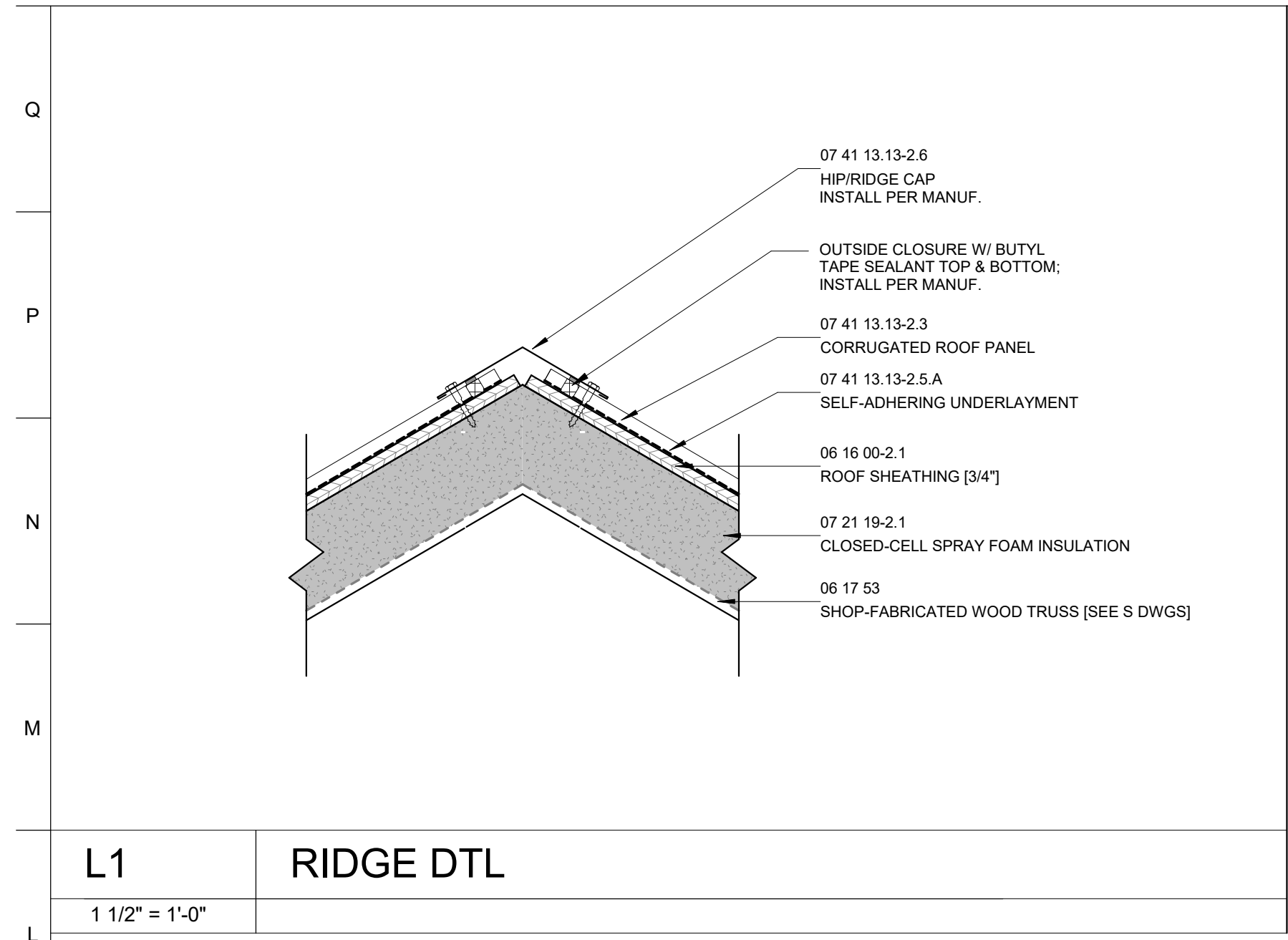
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DRAWING TITLE:  
**HOLDING BUILDING  
ROOF PLAN**

DRAWING NO:  
**A112**

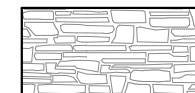
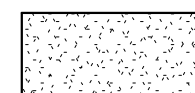
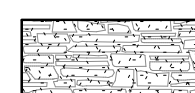


**A1**  
1/2" = 1'-0"

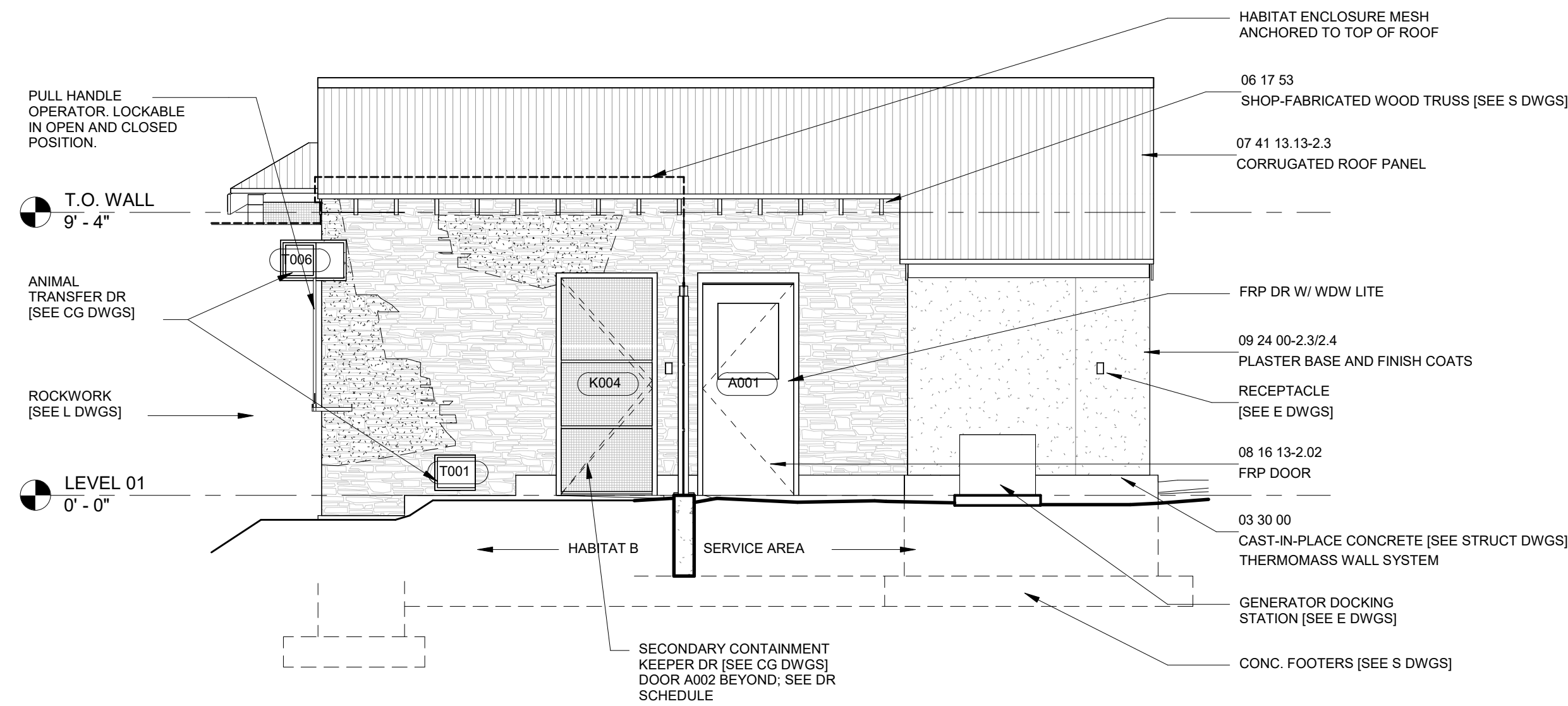
**ROOF PLAN**  
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20



ELEVATION MATERIAL LEGEND

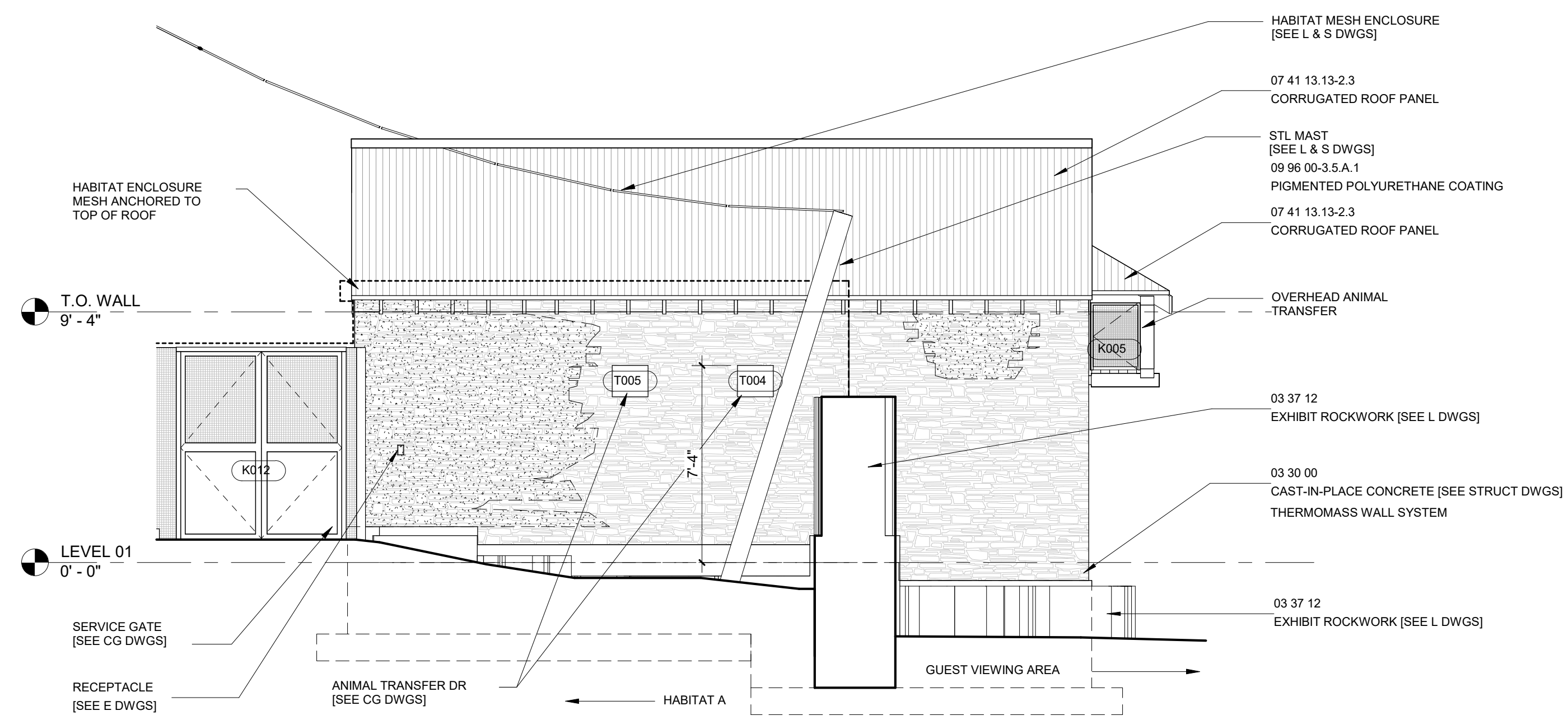
-  ADHERED STONE WALL SYSTEM
-  STUCCO WALL SYSTEM
-  THEMED STUCCO ON ADHERED STONE

**NOTE:**  
ALL EXTERIOR WOOD TO RECEIVE  
VARNISH OVER STAIN 09 93 01-3.5.A



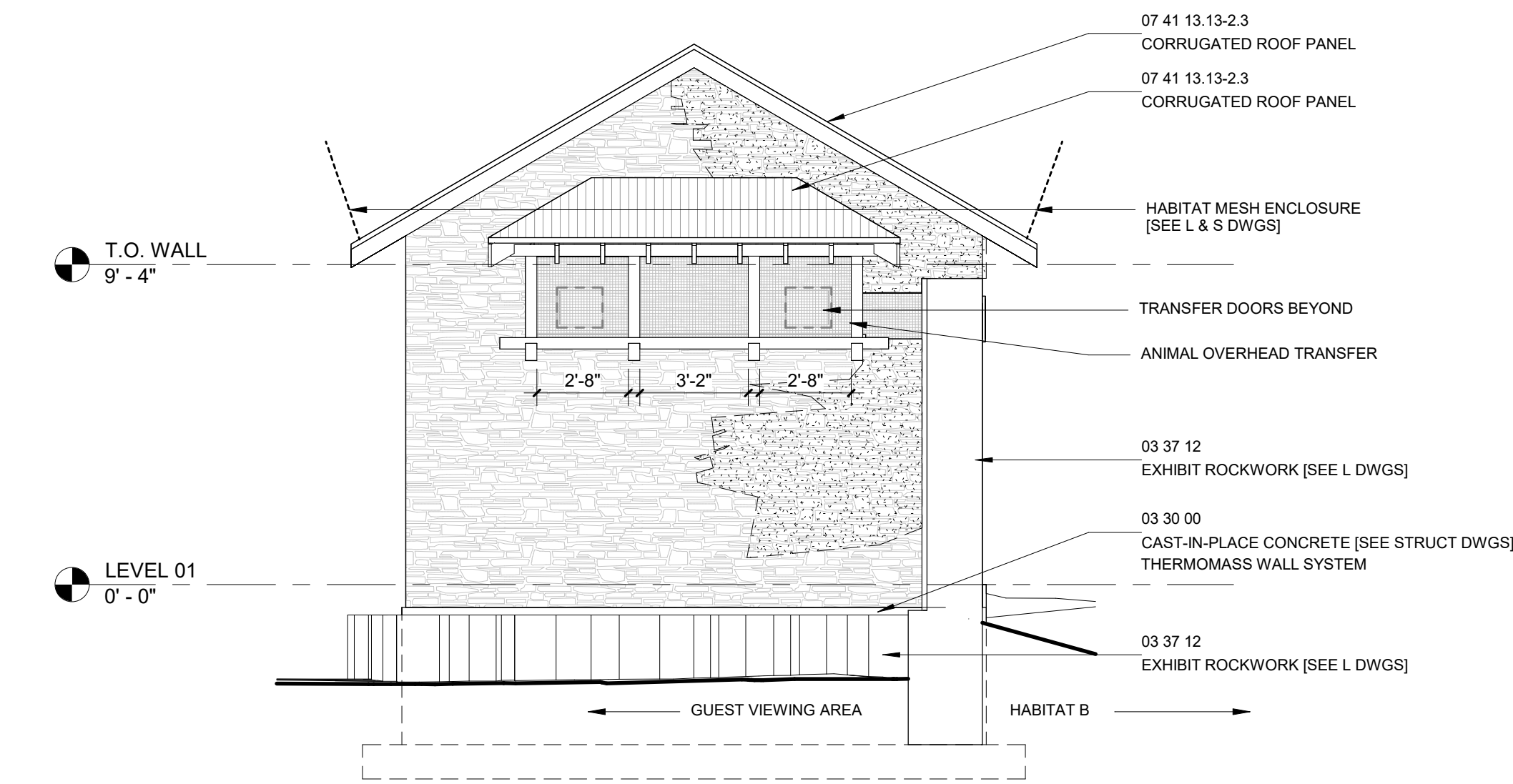
H1 PLAN NORTH ELEV

1/4" = 1'-0"



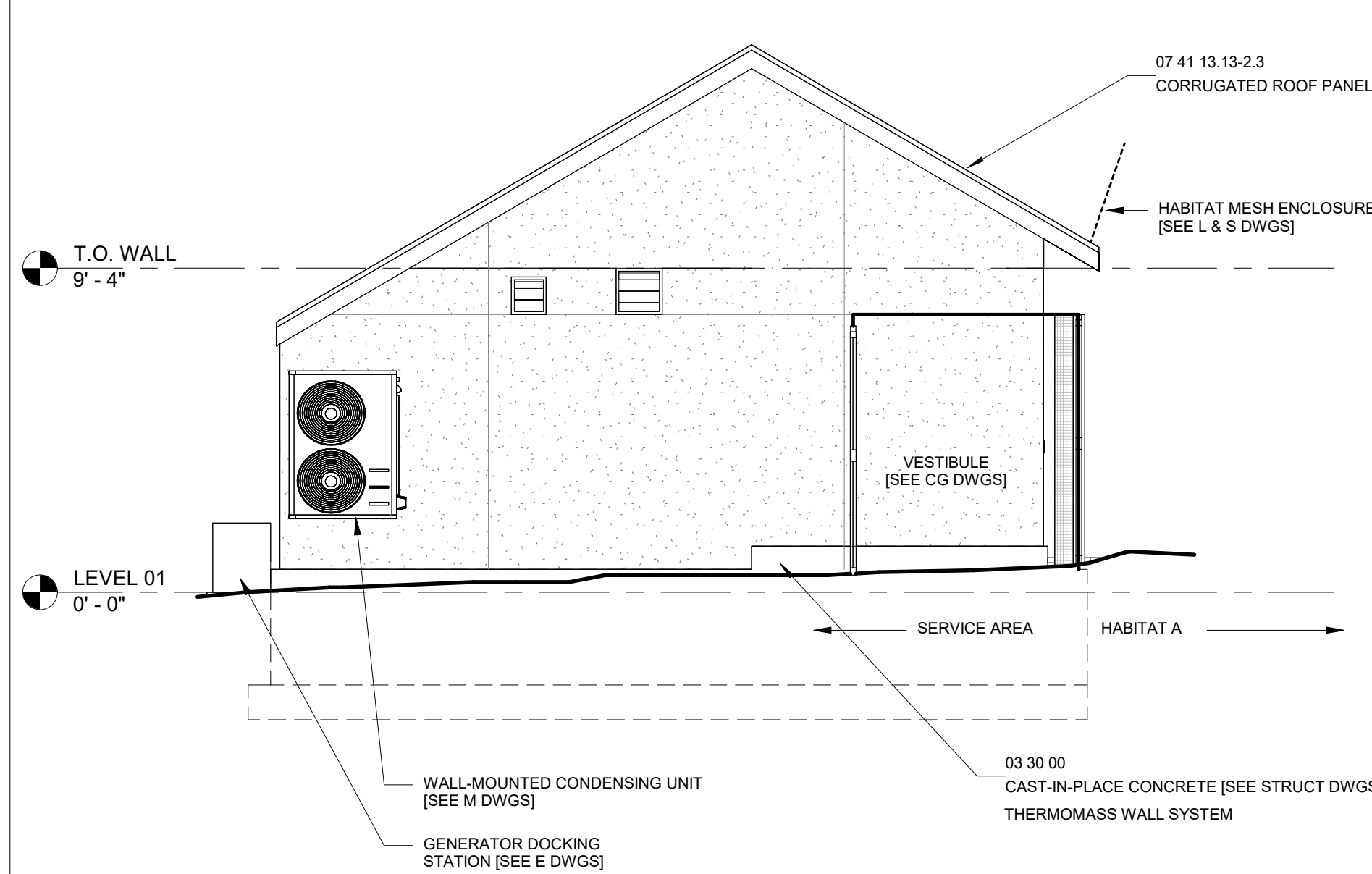
H10 PLAN SOUTH ELEV

1/4" = 1'-0"



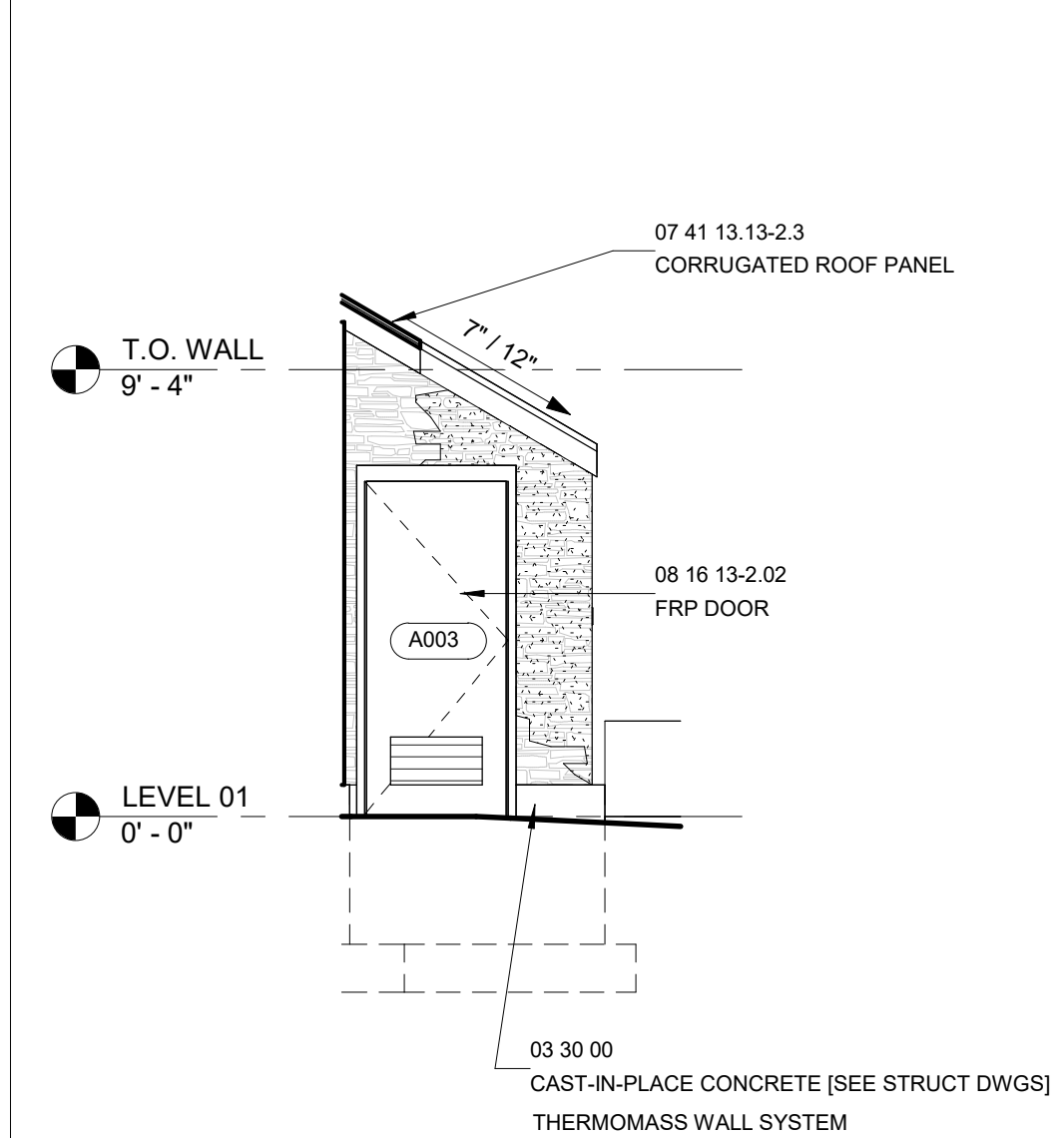
A1 PLAN EAST ELEV

1/4" = 1'-0"



A10 PLAN WEST ELEV

1/4" = 1'-0"



A17 MECH RM DR ELEV

1/4" = 1'-0"



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**LANDSCAPE ARCHITECT:**  
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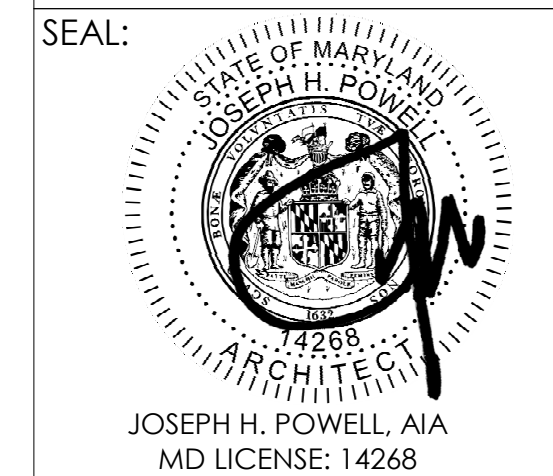
**STRUCTURAL ENGINEER:**  
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**MEP ENGINEER:**  
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**CLIENT:**  
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DRAWING TITLE:  
BUILDING ELEVATIONS

DRAWING NO:  
**A120**





PROJECT TEAM:  
**ARCHITECT:**  
 BUELL KRATZER POWELL, P.C.  
 1525 LOCUST STREET  
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 ROBINSON ANDERSON SUMMERS  
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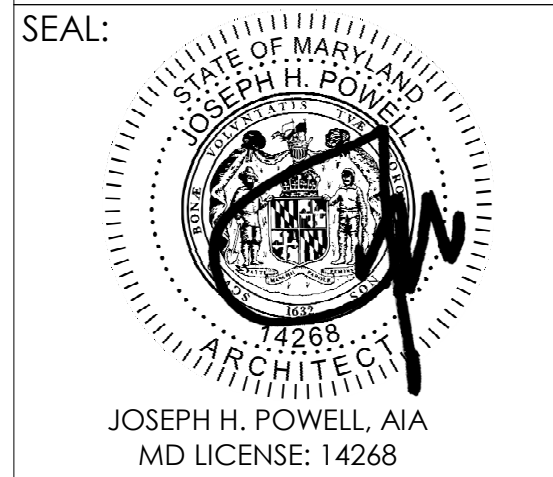
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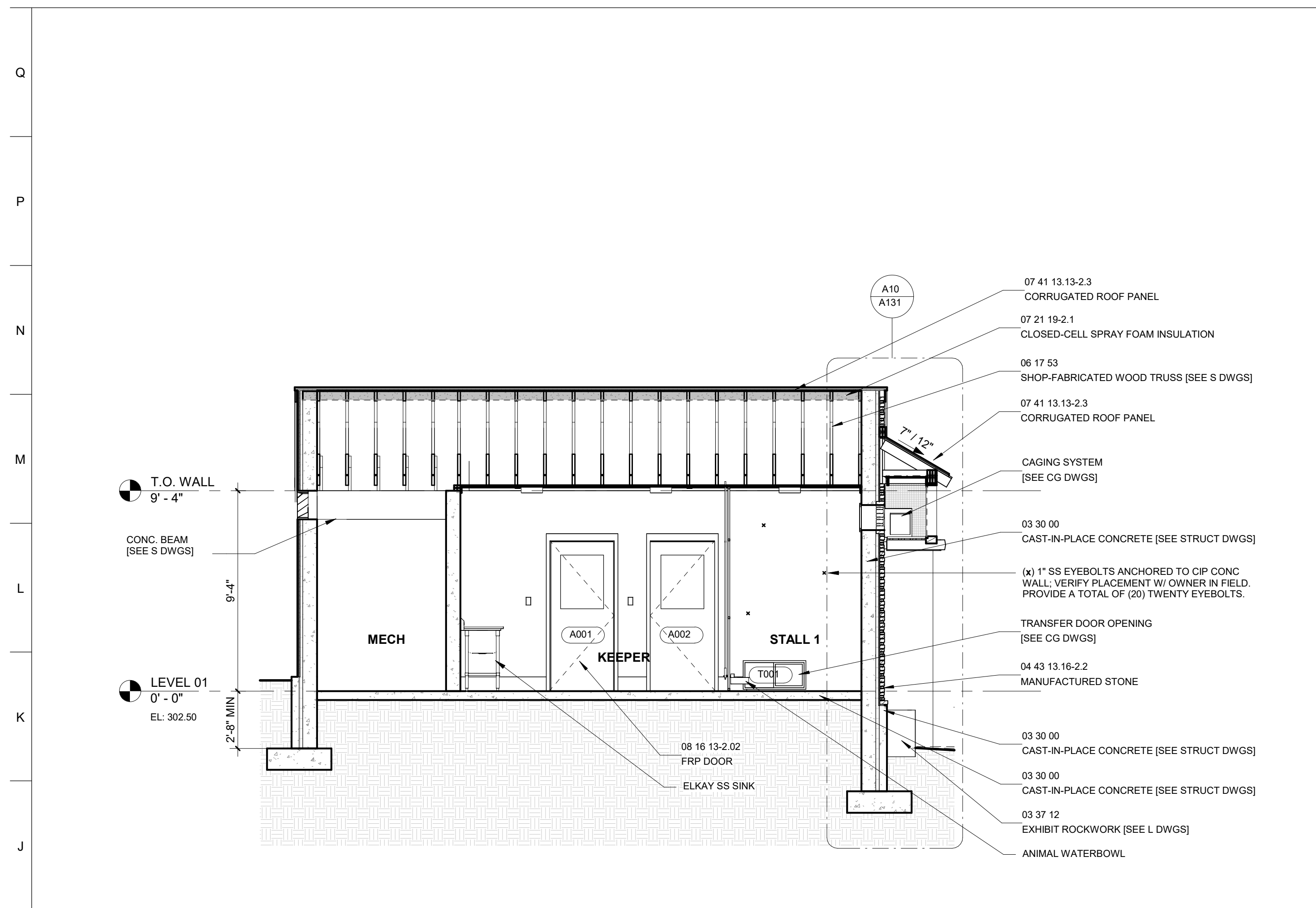
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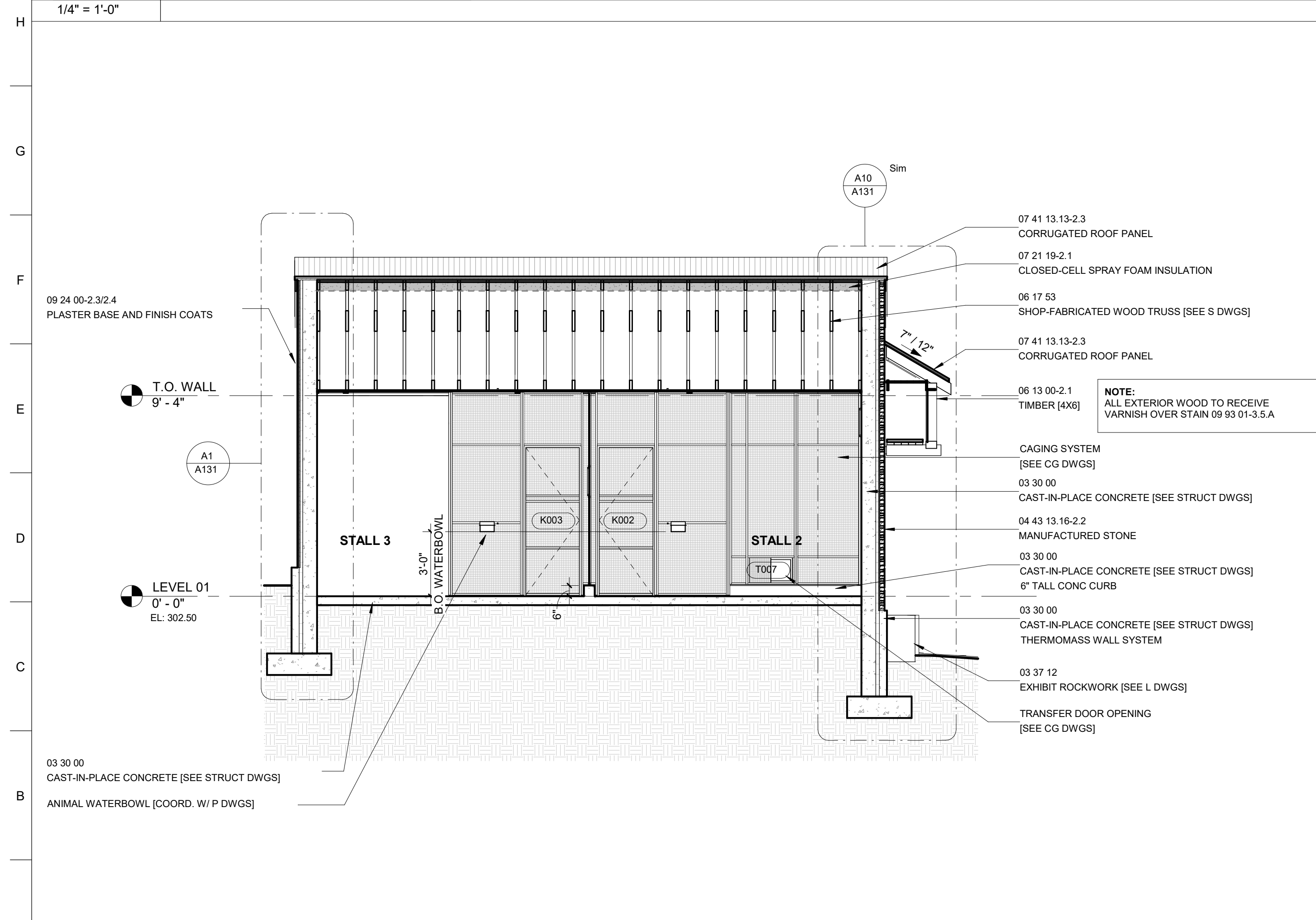
DRAWING TITLE:  
 HOLDING BUILDING SECTIONS

DRAWING NO:  
**A130**



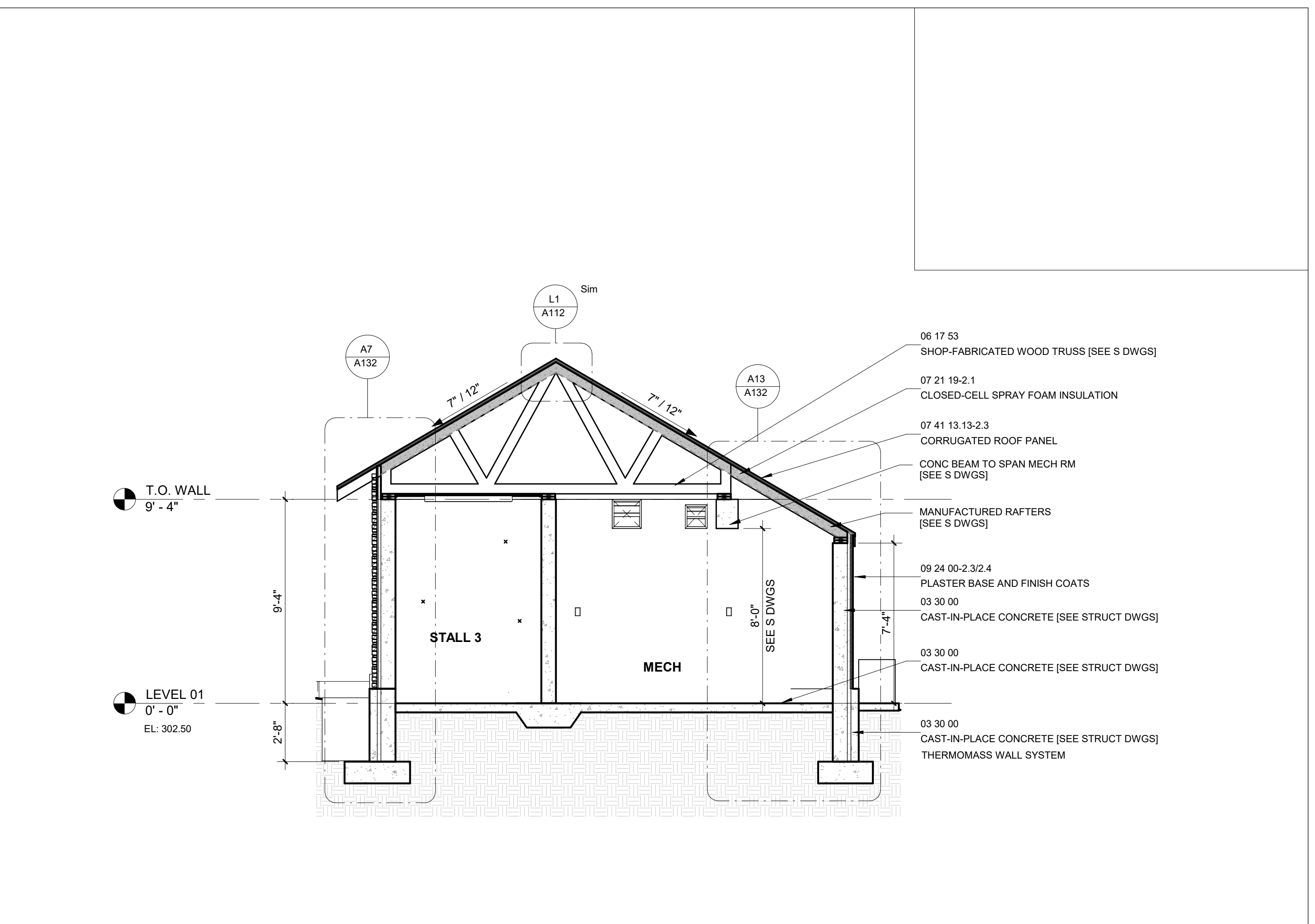
H1 LONG SECTION THRU KEEPER CORRIDOR

1/4" = 1'-0"



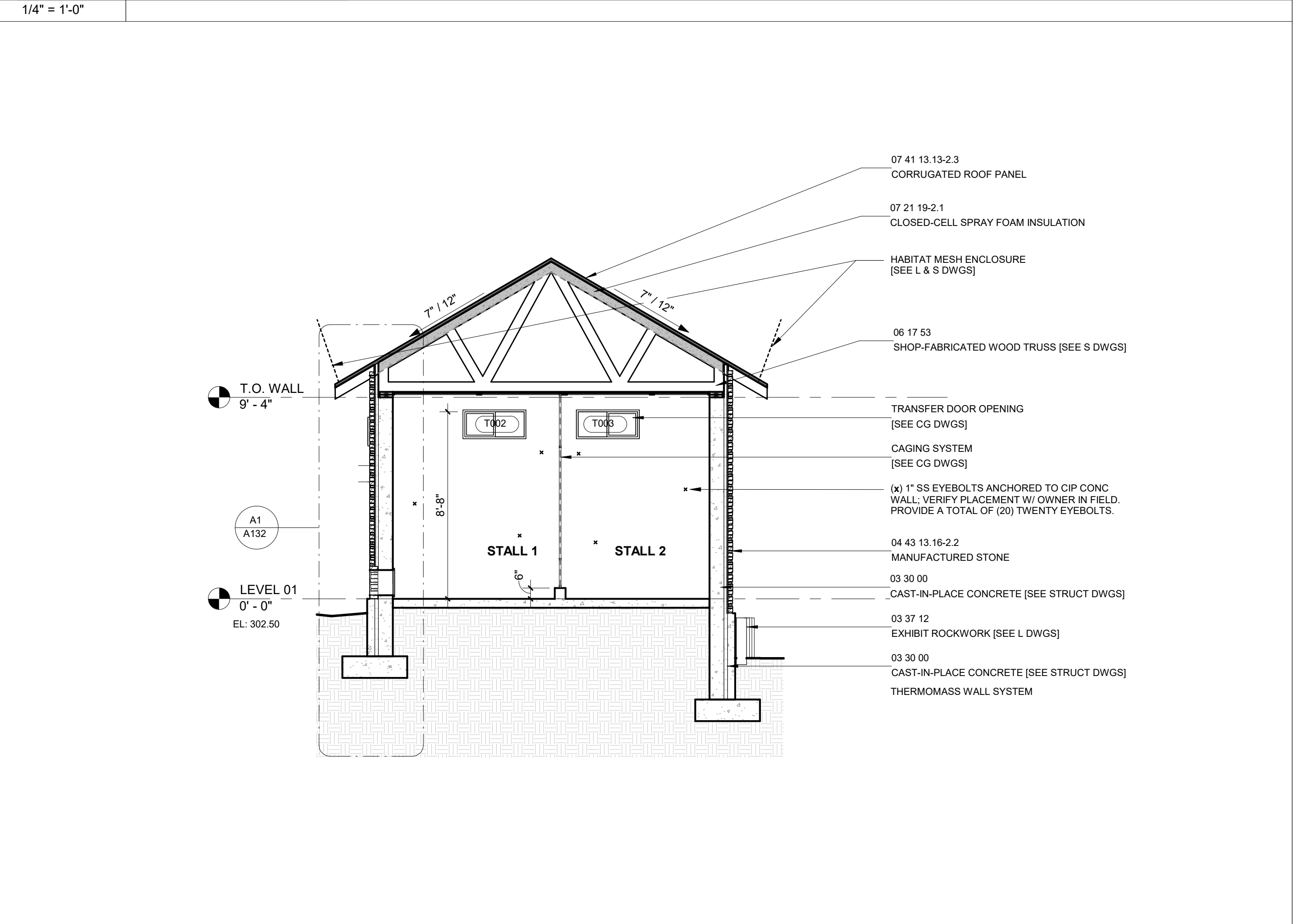
A1 LONG SECTION THRU HOLDING

1/4" = 1'-0"



H10 CROSS-SECTION THRU MECH

1/4" = 1'-0"



A10 CROSS-SECTION THRU STALLS

1/4" = 1'-0"





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SEAL:



JOSEPH H. POWELL, AIA  
MD LICENSE: 14268

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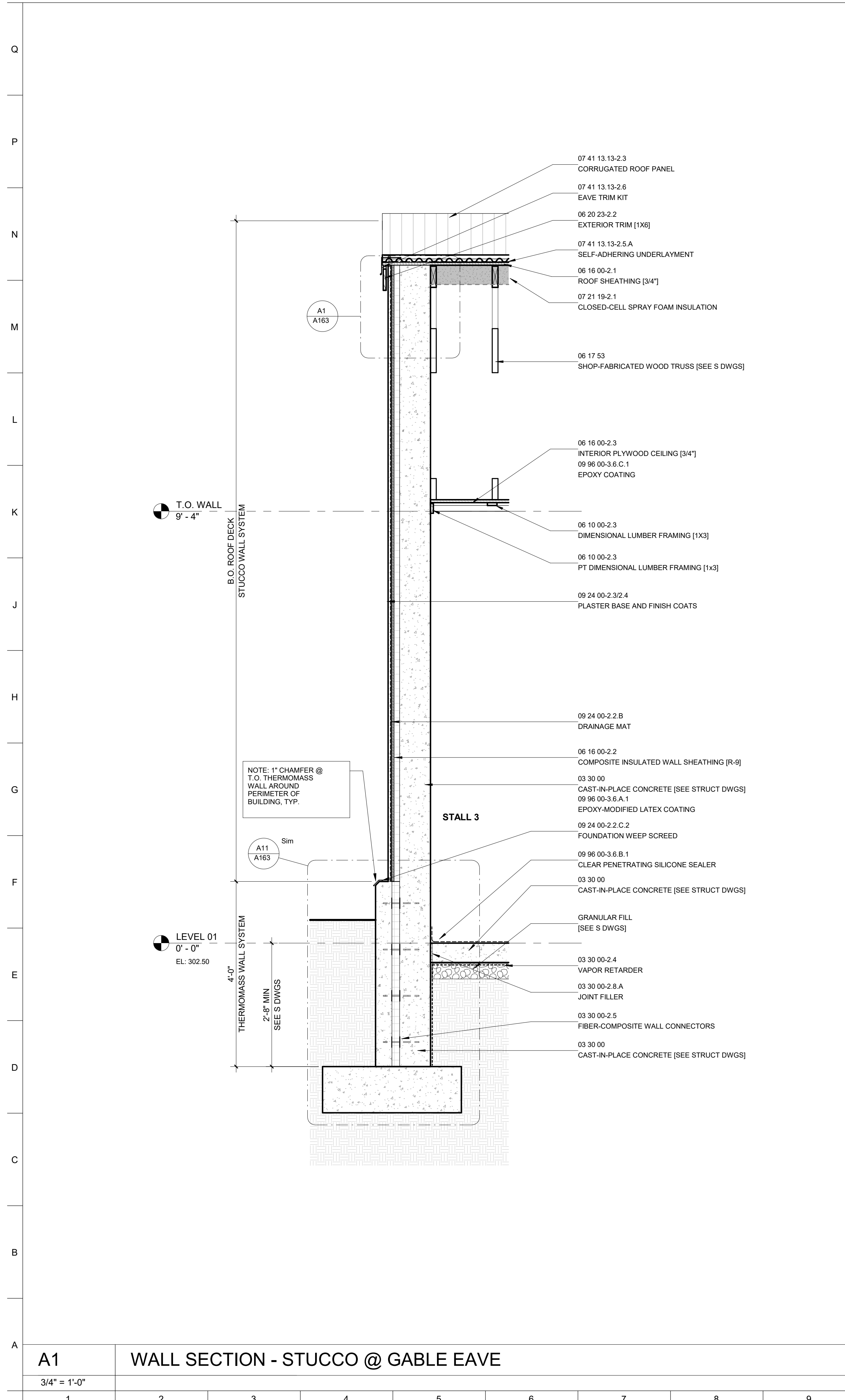
REVISION: DATE

DRAWING TITLE:

HOLDING BUILDING  
WALL SECTIONS

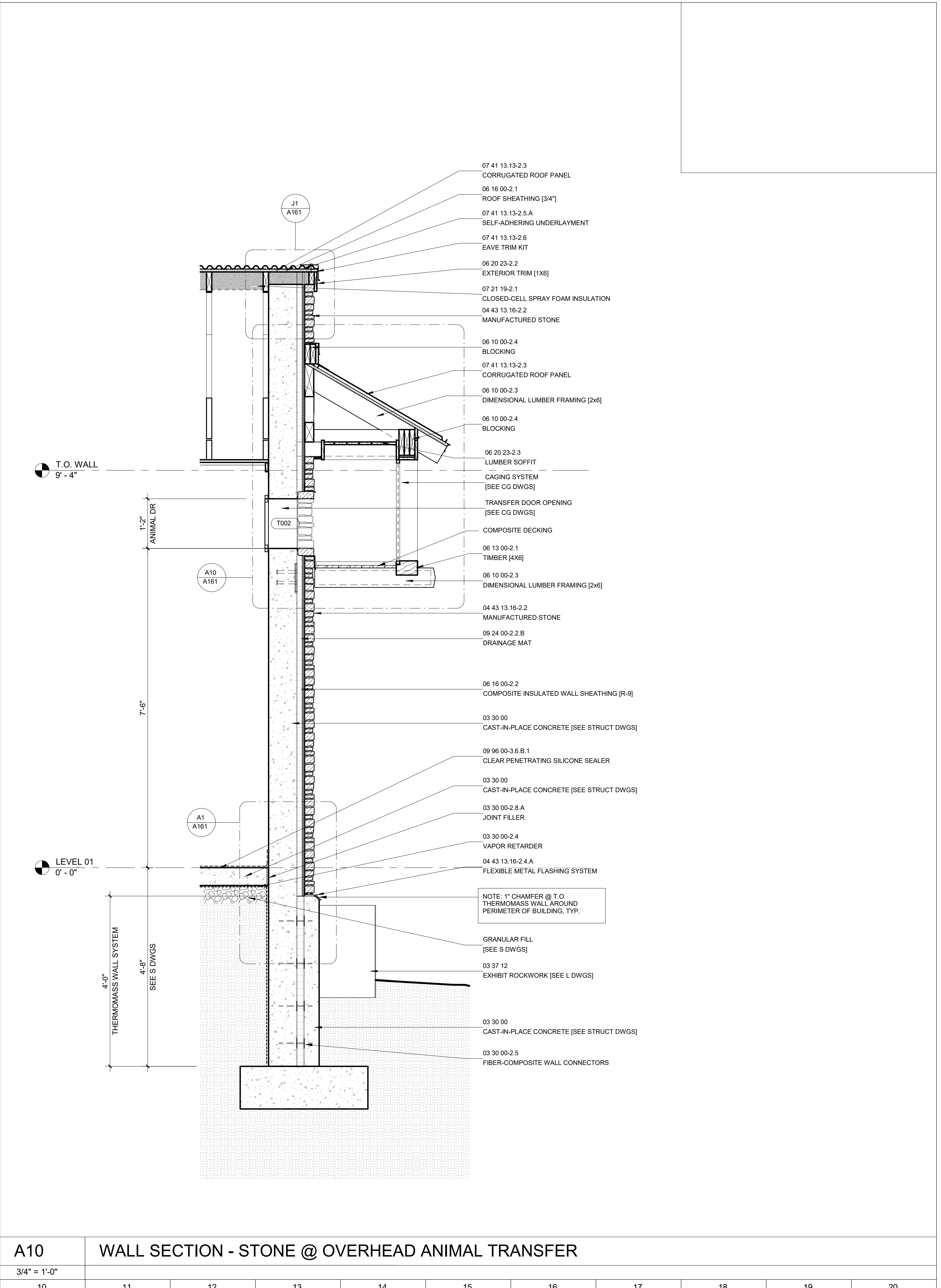
DRAWING NO:

**A131**



A1 WALL SECTION - STUCCO @ GABLE EAVE

3/4" = 1'-0"



A10 WALL SECTION - STONE @ OVERHEAD ANIMAL TRANSFER

3/4" = 1'-0"

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
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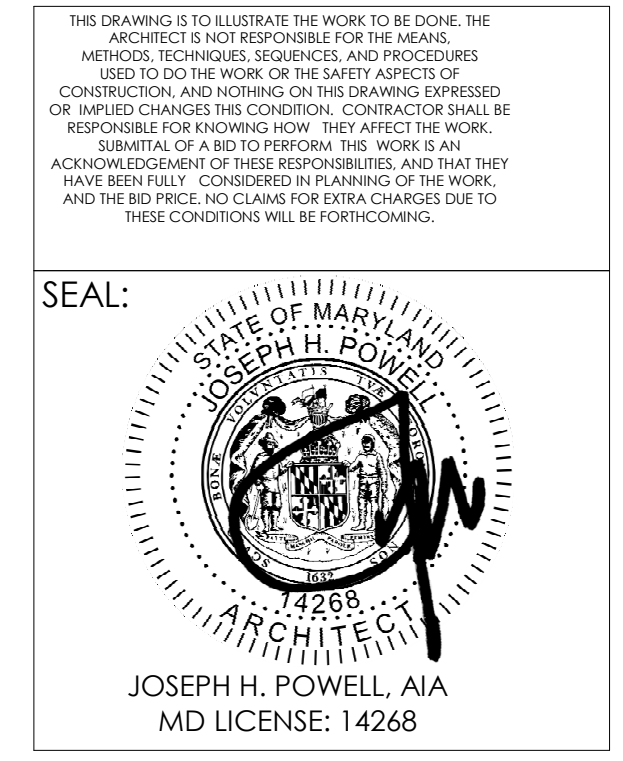
**LANDSCAPE ARCHITECT:**  
 ROBINSON ANDERSON SUMMERS  
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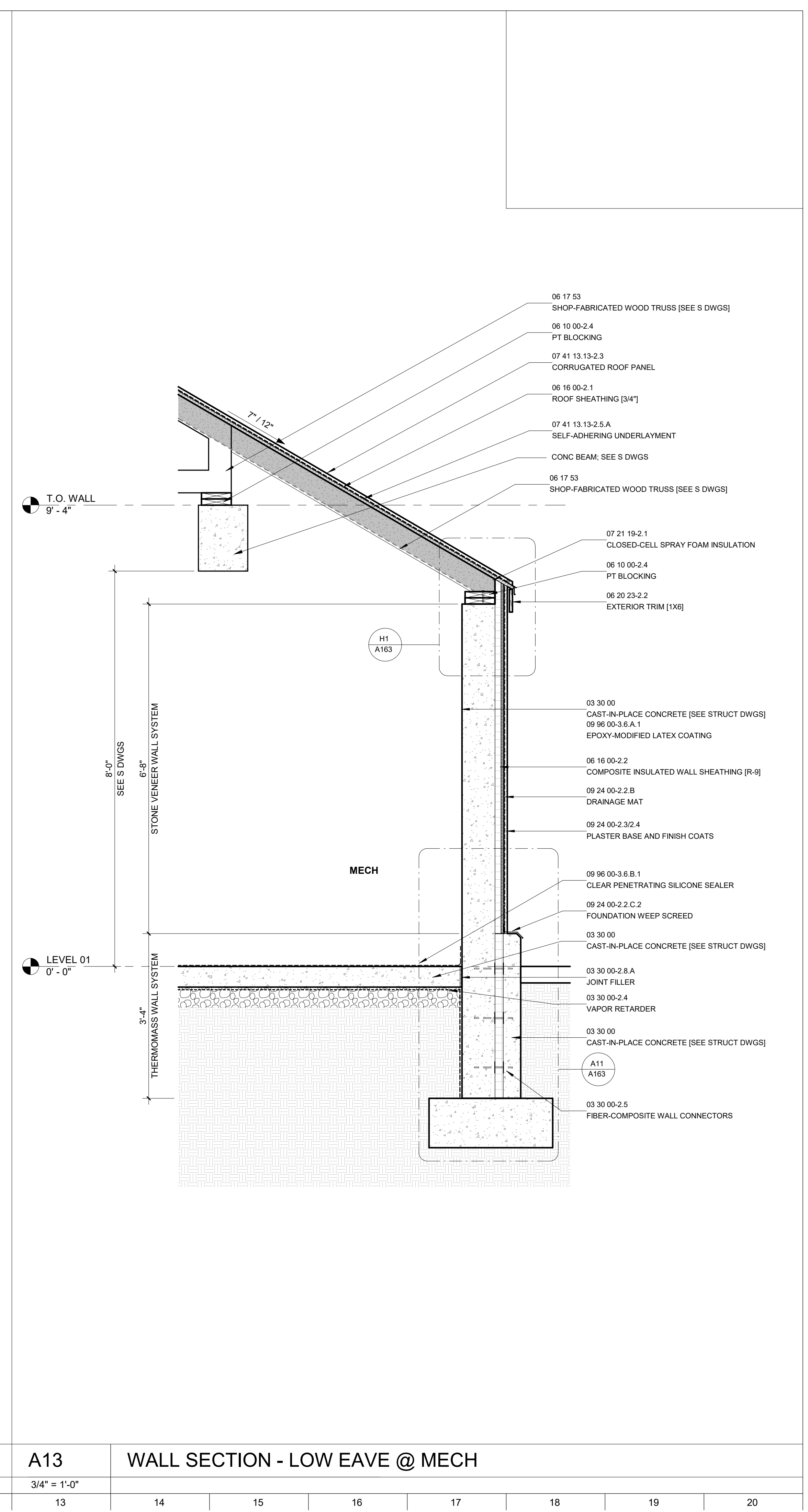
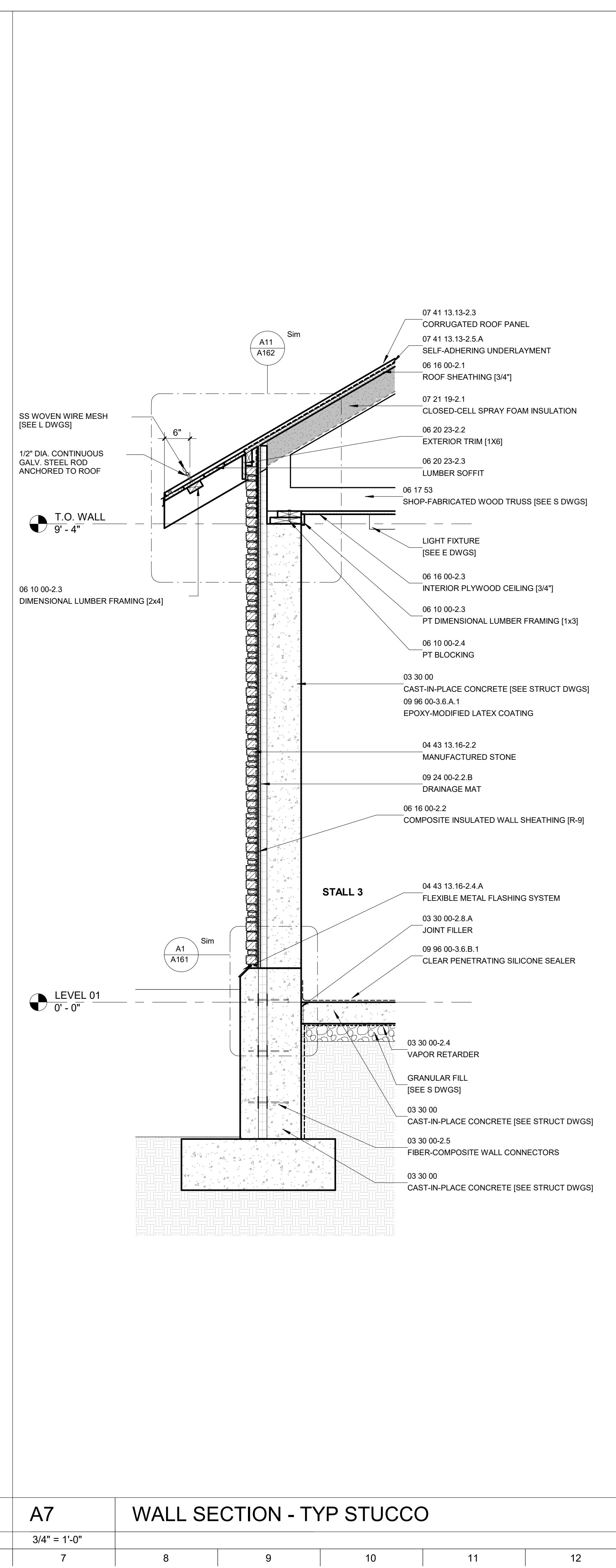
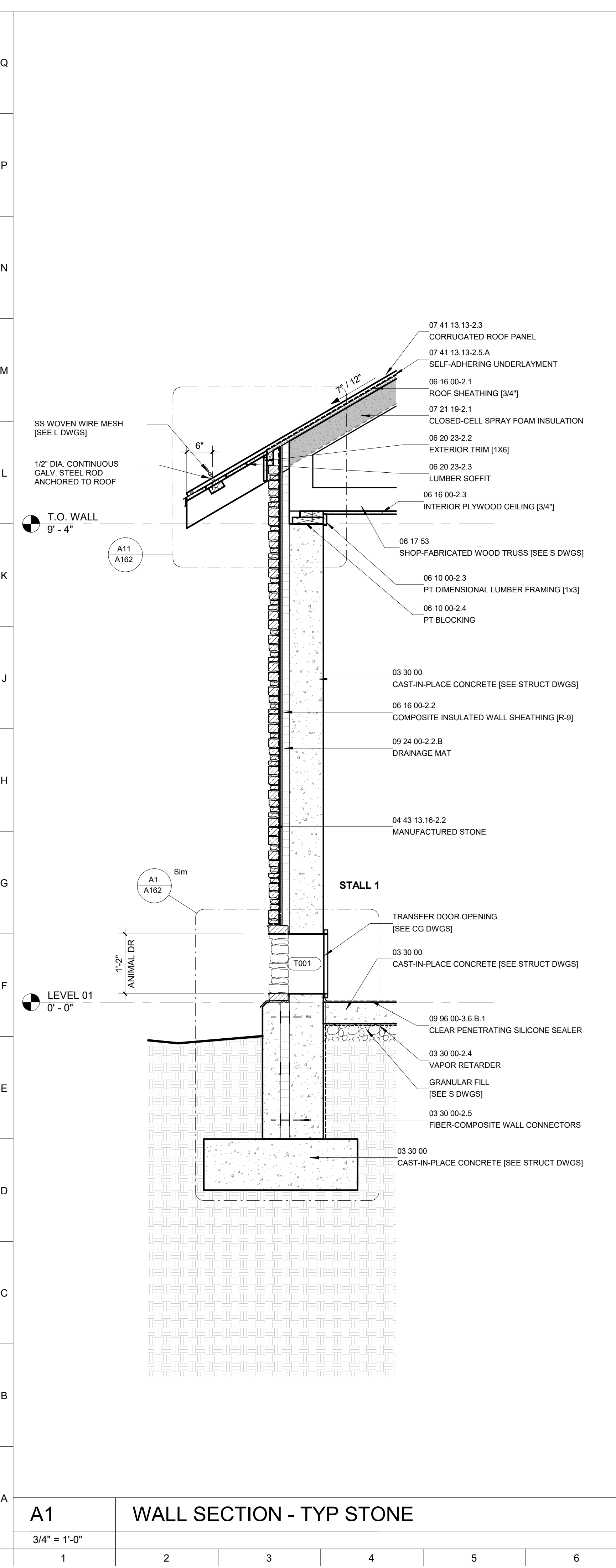
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**DRAWING TITLE:**  
 HOLDING BUILDING  
 WALL SECTIONS

**DRAWING NO.:**  
**A132**



A1	WALL SECTION - TYP STONE	A7	WALL SECTION - TYP STUCCO	A13	WALL SECTION - LOW EAVE @ MECH
3/4" = 1'-0"		3/4" = 1'-0"		3/4" = 1'-0"	
1	2	3	4	5	6
7	8	9	10	11	12
13	14	15	16	17	18
19	20				



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CHECKED BY JS

SUBMISSION DATE

PERMIT SET 11/22/2024

BID SET 01/14/2025

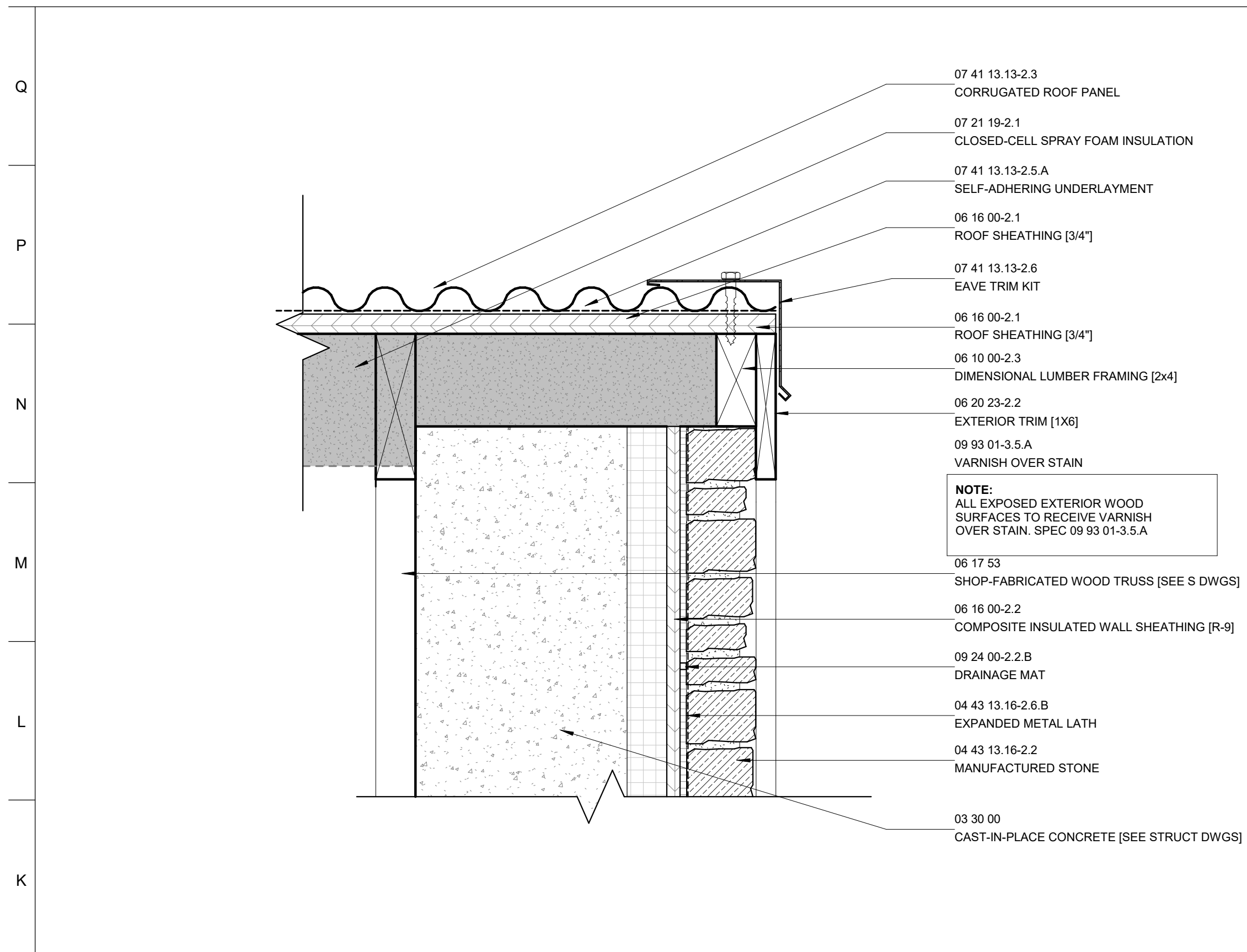
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DRAWING TITLE:

CONSTRUCTION  
DETAILS

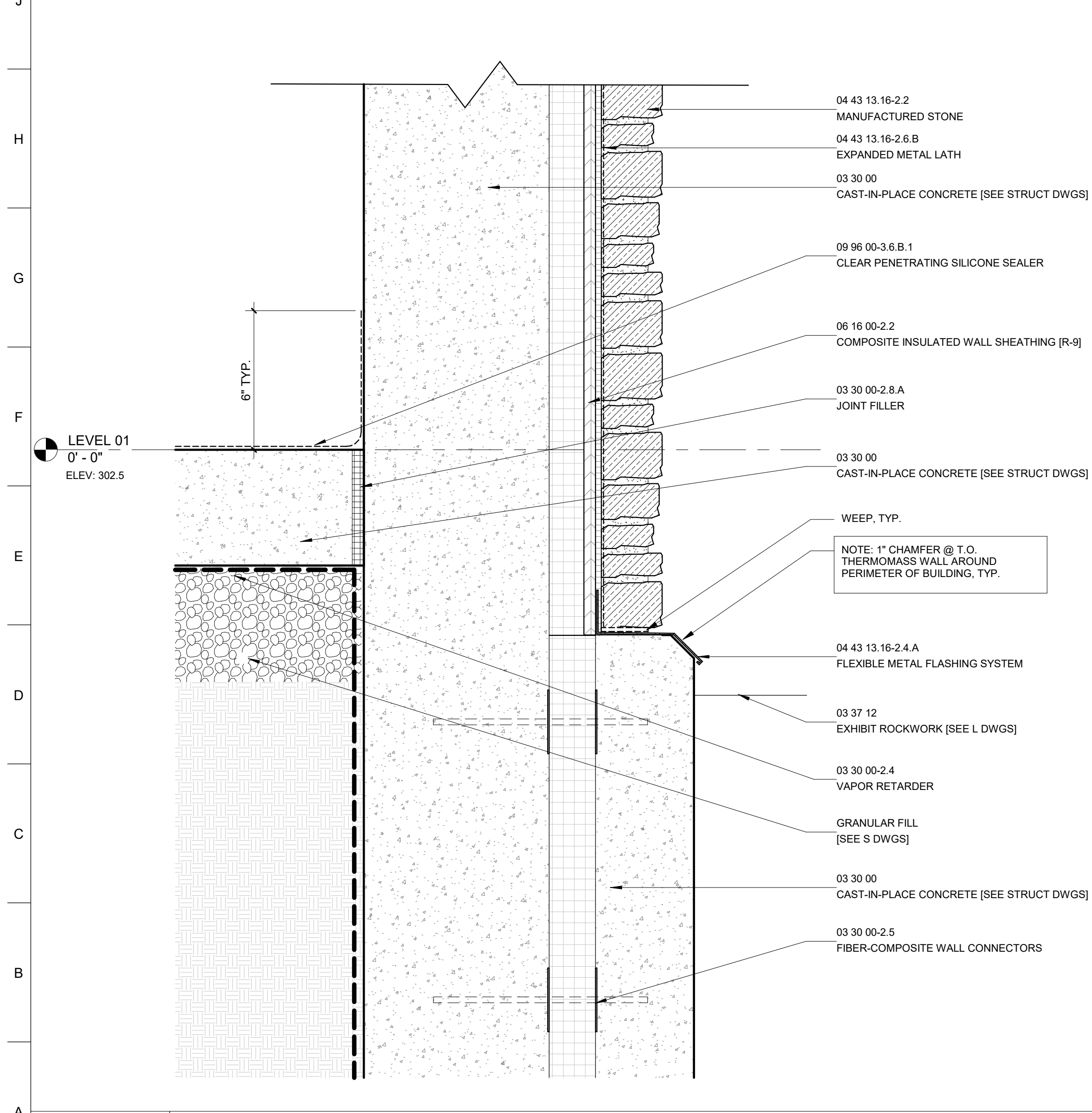
DRAWING NO:

A161



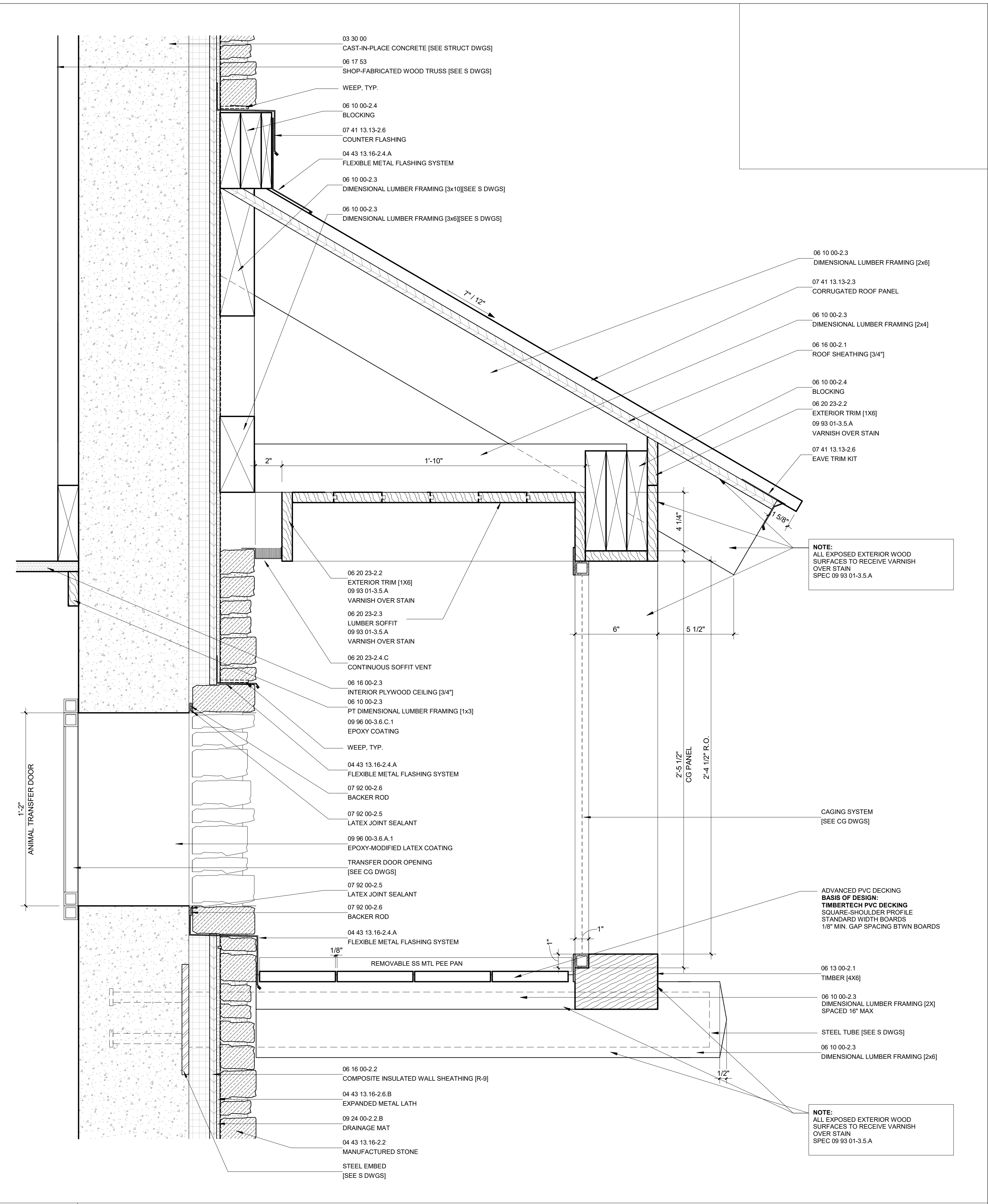
J1 GABLE EAVE DETAIL @ STONE

3" = 1'-0"



A1 TYP. ADHERED STONE WALL

3" = 1'-0"



A10 SECTION THROUGH ANIMAL TRANSFER

3" = 1'-0"





**PROJECT TEAM:**

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**MEP ENGINEER:**  
 KOVACS, WHITNEY & ASSOCIATES  
 190 WEST OSTEND ST, STE 300  
 BALTIMORE, MD 21230  
 T: 410.244.7191

**CLIENT:**

**MARYLAND ZOO**  
 THE MARYLAND ZOO IN BALTIMORE  
 1 SAFARI PLACE  
 BALTIMORE, MD 21217

**RED PANDA**  
 THE MARYLAND ZOO  
 IN BALTIMORE  
 1 SAFARI PLACE  
 BALTIMORE, MD 21217

THIS DRAWING IS TO ILLUSTRATE THE WORK TO BE DONE. THE ARCHITECT IS NOT RESPONSIBLE FOR THE ADEQUACY OF THE METHODS, TECHNIQUES, SEQUENCES, AND PROCEDURES USED TO DO THE WORK OR THE SAFETY ASPECTS OF CONSTRUCTION, AND NOTHING ON THIS DRAWING EXPRESSED OR IMPLIED CHANGES THE CONDITIONS. CONTRACTOR SHALL BE RESPONSIBLE FOR KNOWING HOW THEY AFFECT THE WORK. SUBMITTALS FOR A BID TO PERFORM THIS WORK ARE AN ACKNOWLEDGEMENT OF THESE RESPONSIBILITIES AND THAT THEY HAVE BEEN FULLY CONSIDERED IN PLANNING OF THE WORK, AND THE BID PRICE. NO CLAIMS FOR EXTRA CHARGES DUE TO THESE CONDITIONS WILL BE FORWARDED.

**SEAL:**

JOSEPH H. POWELL, AIA  
 MD LICENSE: 14268

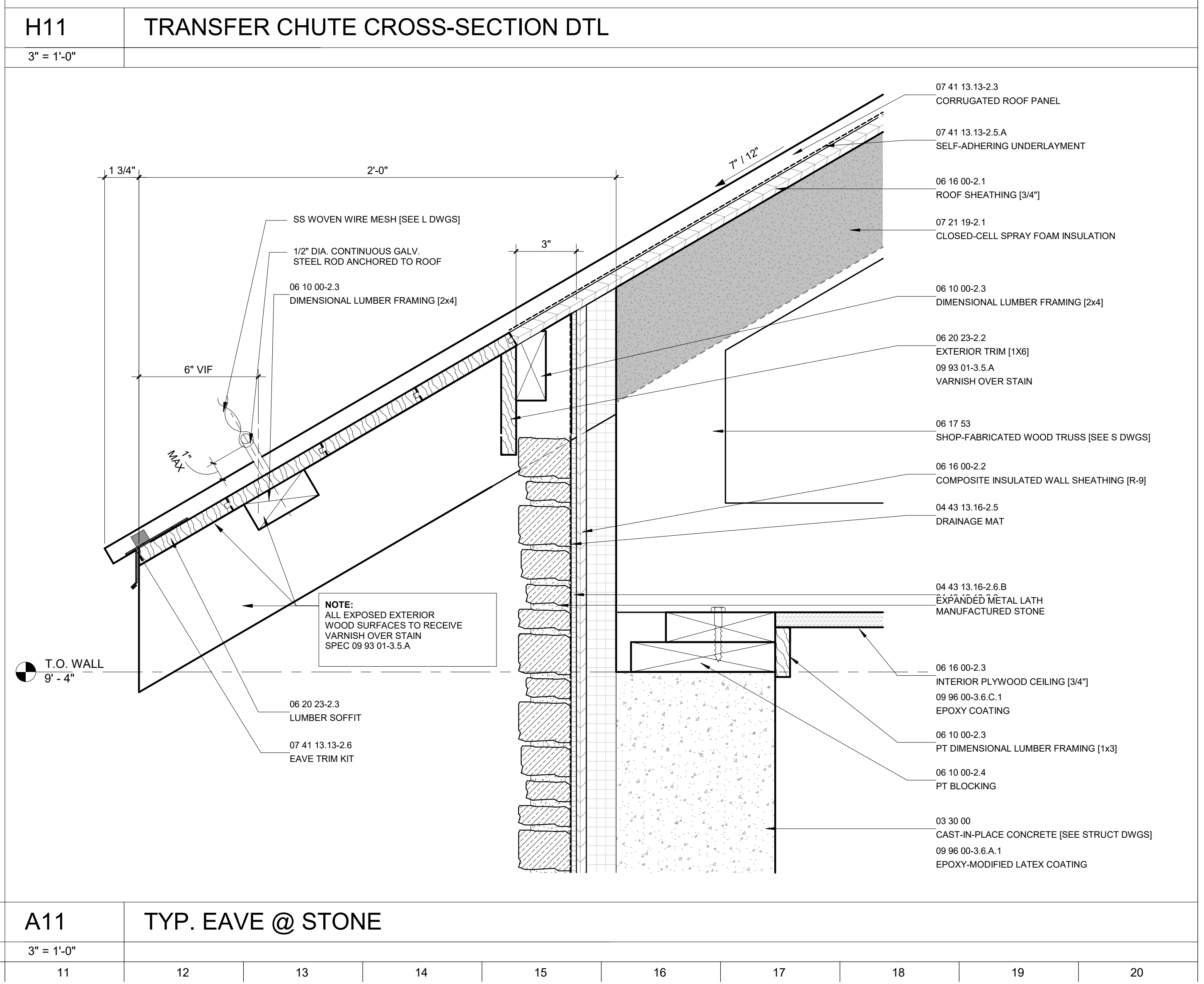
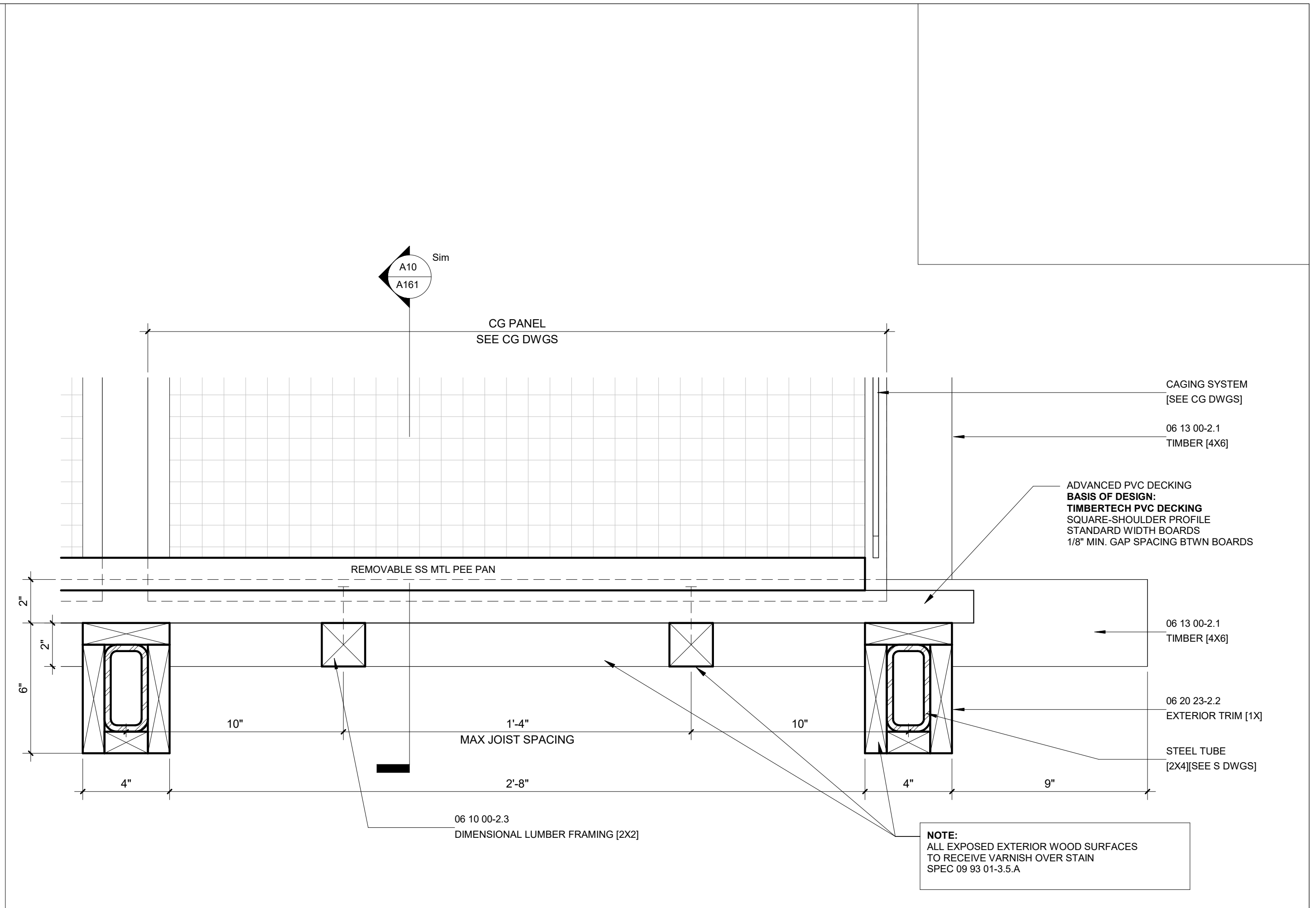
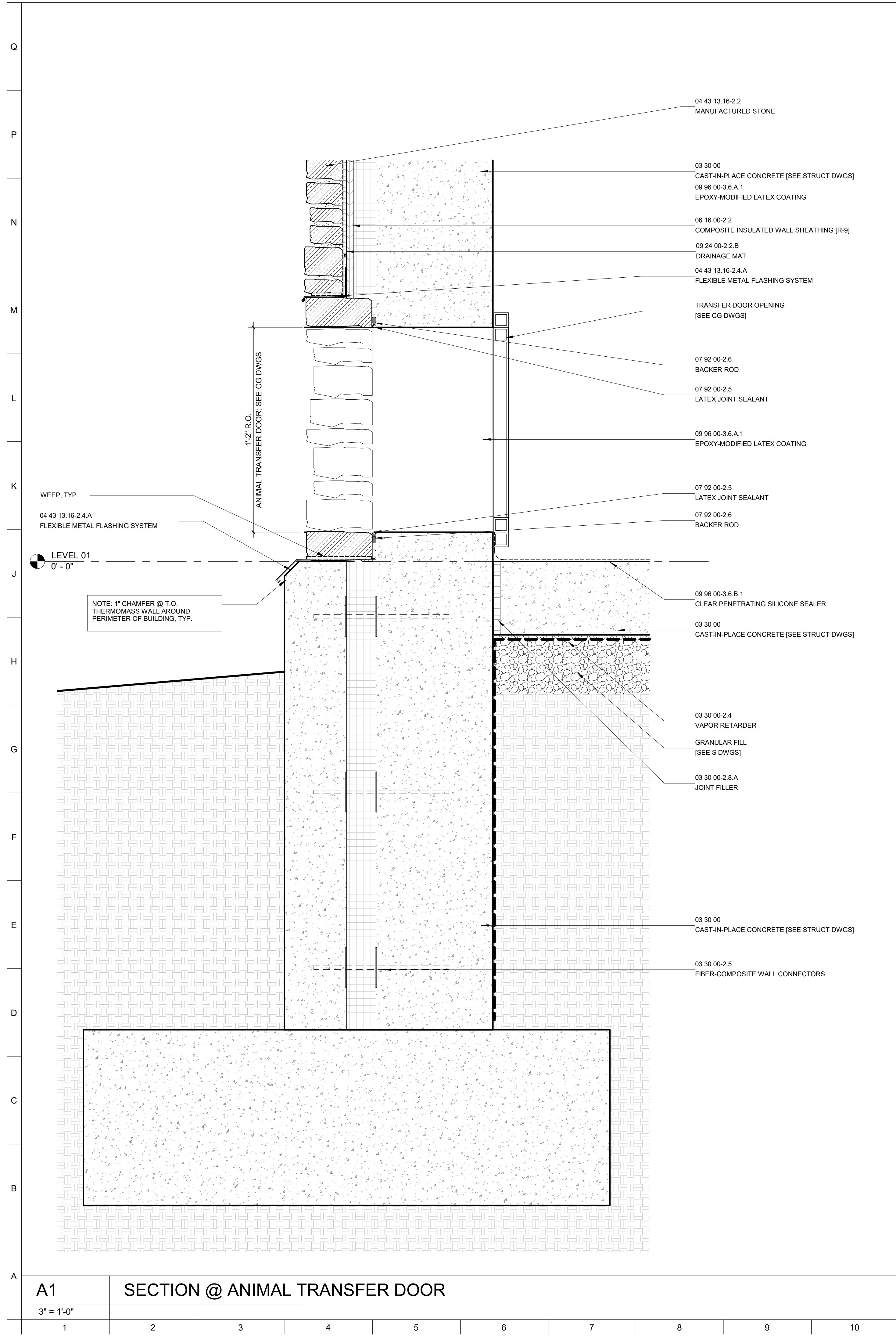
DATE:	JANUARY 14, 2025
PROJECT NO.:	2023-10.04
DRAWN BY:	CC
CHECKED BY:	JS
SUBMISSION DATE:	
PERMIT SET:	11/22/2024
BID SET:	01/14/2025
REVISION:	DATE

**DRAWING TITLE:**

CONSTRUCTION  
 DETAILS

**DRAWING NO.:**

A162



**A1** SECTION @ ANIMAL TRANSFER DOOR  
 3" = 1'-0"

**A11** TYP. EAVE @ STONE  
 3" = 1'-0"





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CLIENT:

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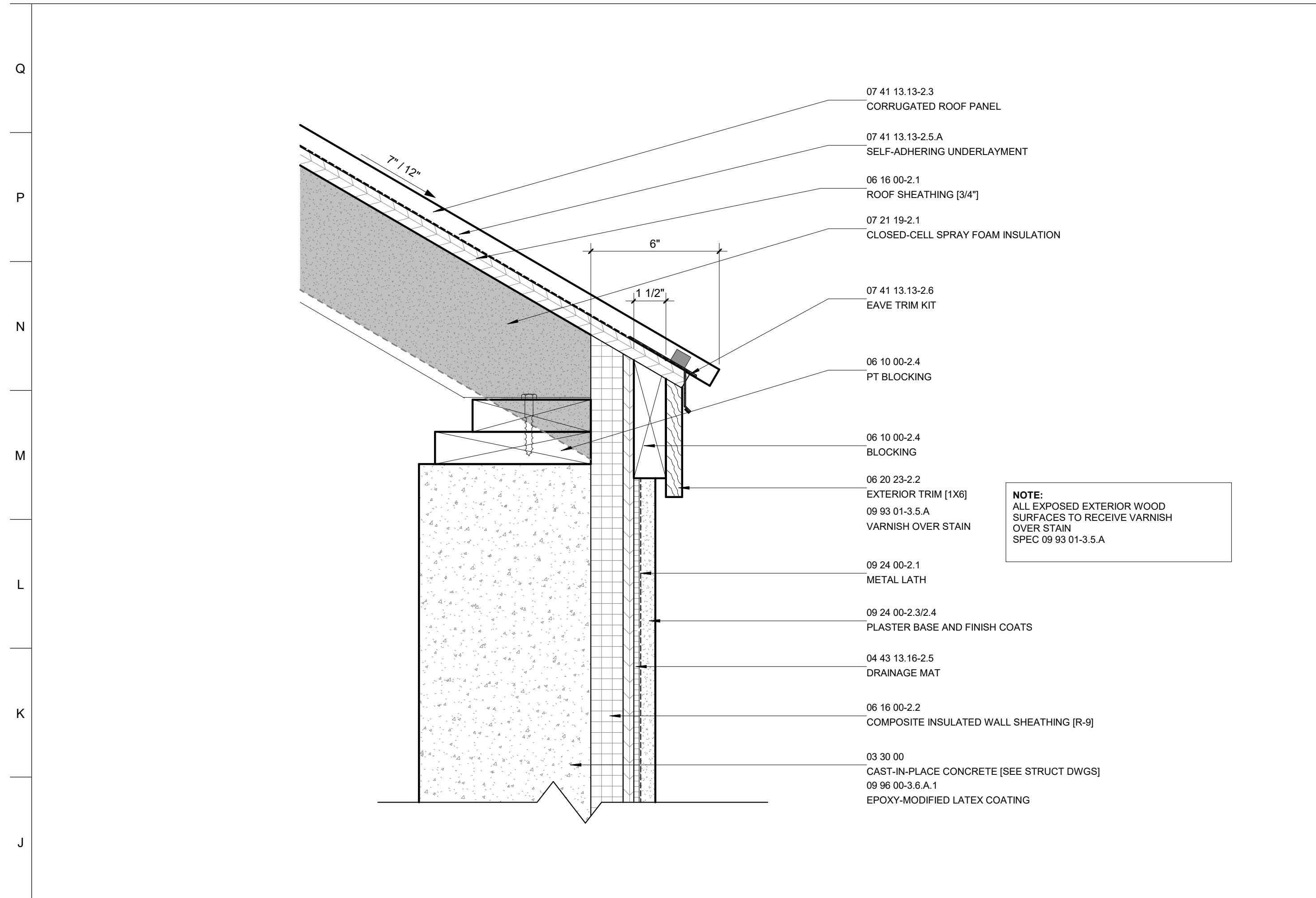
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DATE:	JANUARY 14, 2025
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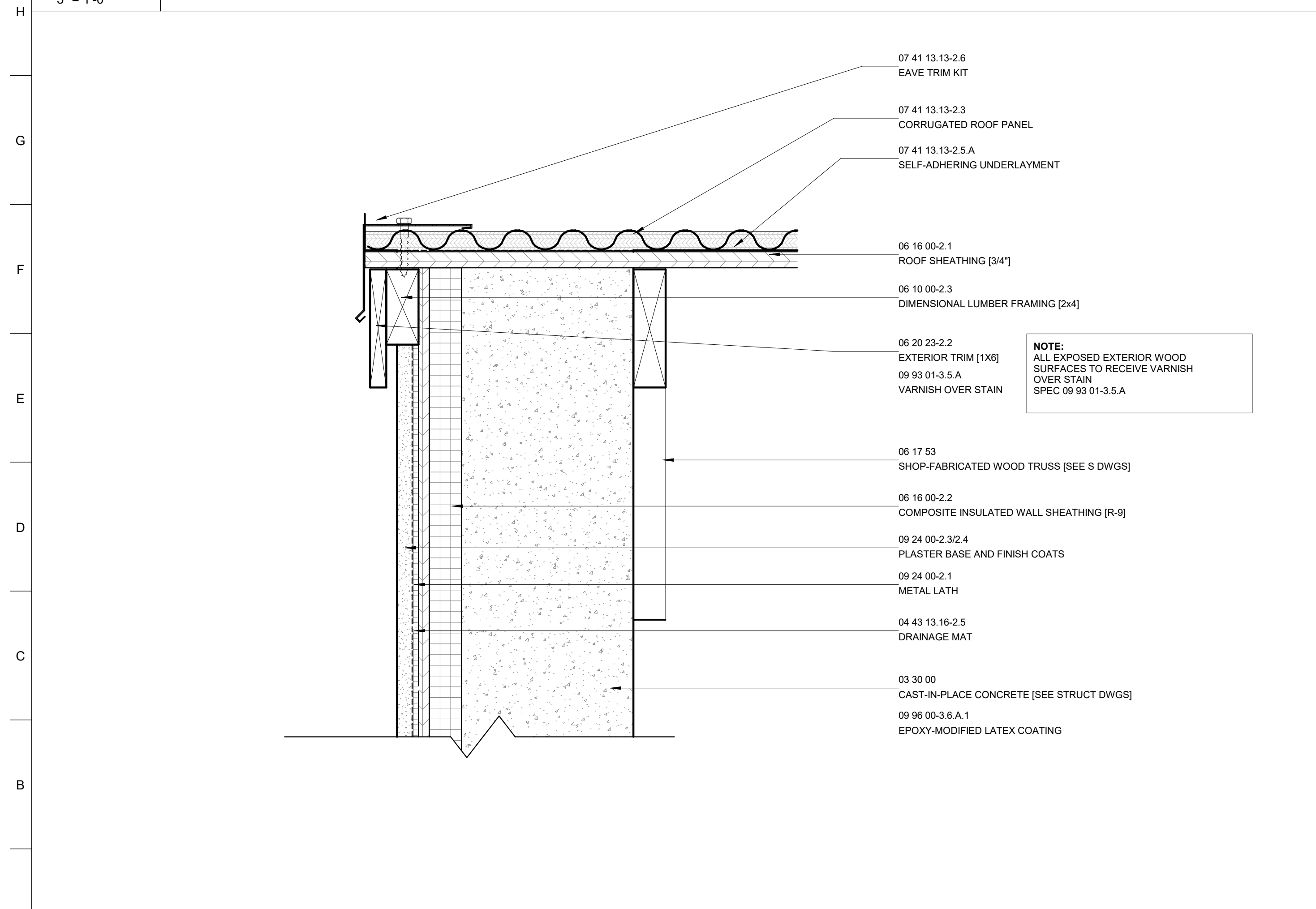
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**CONSTRUCTION  
DETAILS**

DRAWING NO:  
**A163**



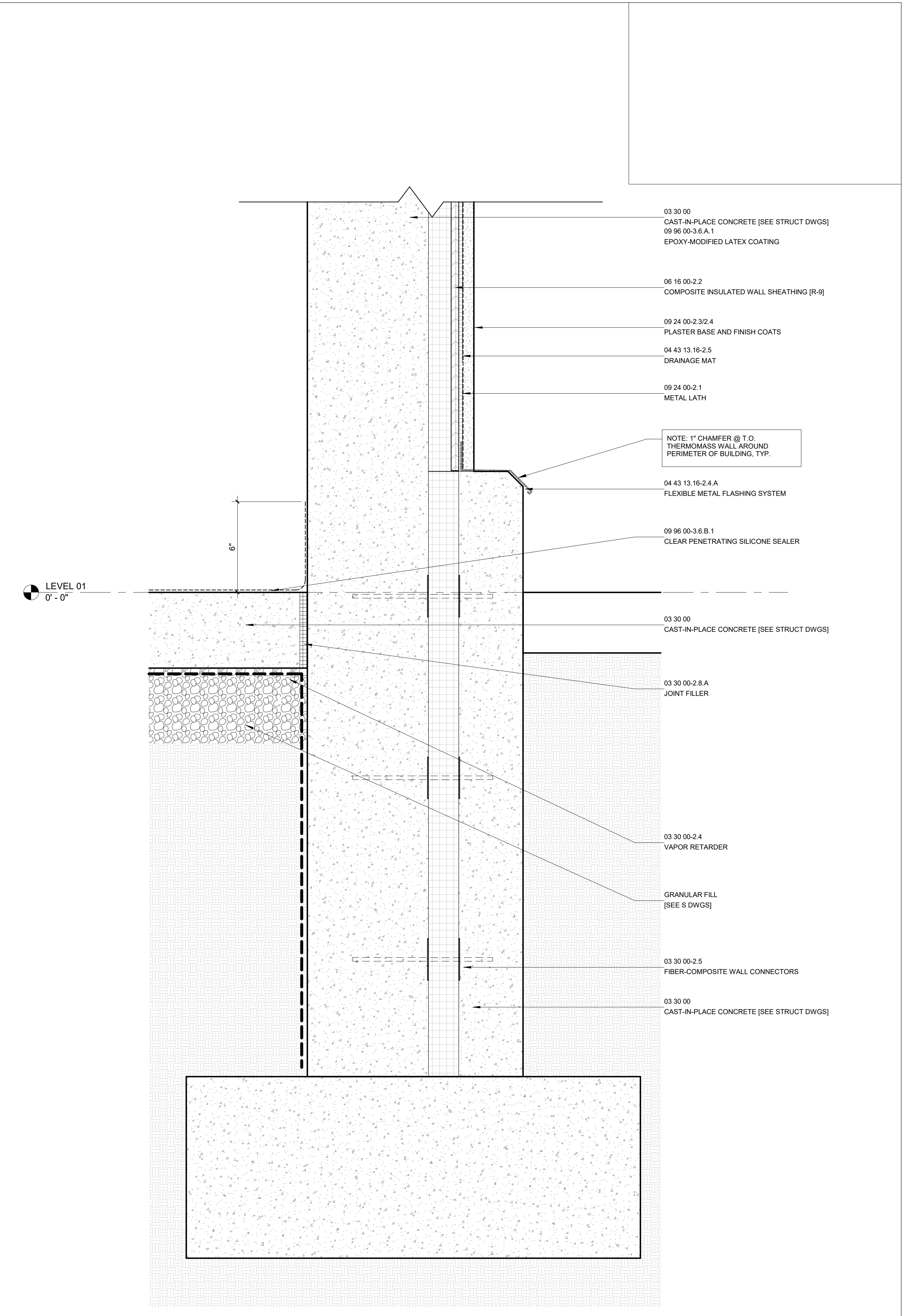
**H1** EAVE @ STUCCO

3" = 1'-0"



**A1** GABLE EAVE DETAIL @ STUCCO

3" = 1'-0"



**A11** TYP. STUCCO WALL

3" = 1'-0"