

PROJ. NO: **23-225-B**

DRAWN:	JLW	10/6/2023
CHKD:	JCS	10/24/2023
REV 1:	JLW	11/14/2023
REV 2:		
REV 3:		
REV 4:		
SHOP NO.:		14834
EEC JOB NO.:		14834
SHEET NO.:		1 OF 6

CONTRACT NOTE:
 Reference accepted proposal and/or executed contract for identification of items furnished. Any item not specifically included shall be provided by owner, installer or others. Some items are specifically noted as N.I.C. (not in contract).

LAMINATED WOOD SPECIFICATIONS:
 SPECIES ----- Southern Pine
 LAMINATION THICKNESS ----- 2" Nominal
 STRESS COMBINATION ----- See member details
 ADHESIVE ----- Resorcinol
 APPEARANCE GRADE ----- Architectural
 FINISH ----- Seal & Stain; Color -----
 PROTECTION ----- Individual wrap
 PRESERVATIVE TREATMENT ----- CCA 0.4 PCF (min) retention @ C-1, BC-1 & W-1, treated prior to gluing
 HARDWARE ----- Per details & list

SOLID TIMBER SPECIFICATIONS
 2 x 4 Nailer ----- #1 SYP, S4S, KD, Seal & Stain; Color = -----
 2 x 6 Fascia ----- #1 AYC, S4S, KD, Seal & Stain; Color = -----
 2 x 8 Roof Deck ----- #1 SYP, T&G, S/L, CM, EV1S, KD, Seal & Stain; Color = -----
 Deck furnished in specified lengths (S/L), not precision end trimmed (PET), field cutting required.

ROOF UNDERLAYMENT SPECIFICATIONS:
 One layer of synthetic underlayment.
 Synthetic underlayment to conform to ASTM D226 Type II or ASTM D4869 Type IV.
 Attach underlayment per manufacturer's recommendations or building code requirements, whichever is more stringent.

WOOD SHOP NOTES:
 1. Materials, Manufacture and Quality Control of glulam shall be in conformance with, "American National Standard for Wood Products-Structural Glued Laminated Timber ANSI A190.1-2017".
 2. Members shall be marked (in an unseen location) with an AITC or APA/EWS Quality Mark and, in addition, an AITC or APA/EWS Certificate of Conformance shall be provided to indicate conformance with "ANSI A190.1-2017".

STEEL & HARDWARE SHOP NOTES:
 1. All steel plate to be ASTM A572 Grade 50.
 2. All bolts to be ASTM A307A. Exception: Anchor bolts as noted.
 3. All nuts to be ASTM A563A.
 4. All fabricated steel to be powder coated; color selected by owner.
 5. Hardware (bolts, nuts, washers, etc.) to be hot-dipped galvanized (HDG). Shop to verify hole tolerances and tolerances of threaded parts for compatibility of the galvanized parts only.

ERECTION NOTES:
 All members must be properly braced until the complete structural system has been constructed. Correction of minor misfits and a reasonable amount of reaming or alignment with drift pins will be considered a legitimate expense of erection.

In the event of error, defect in materials, and/or workmanship of shop work which prevents proper assembling and fitting up of parts by the moderate use of drift pins, or reaming, immediately report to the seller and obtain seller's approval of the method of correction.

Boles are to be snug tight. Torque measurement is not required.

NOTE: This building has been designed as a free standing, open structure. If walls are to be added, or if the building is to adjoin another structure, or if other modifications are to be made, the structure must be re-engineered prior to these modifications (by others).

DESIGN CRITERIA:
 2022 Oregon Structural Speciality Code w/ 2021 IBC w/ Amendments
 Type of Construction: Type V-B
 Occupancy Classification: Assembly A-3
 Building Risk Category II
 Mean Roof Height = 10'-4"
 Building Area = 448 ft²
 Building Volume = 4,630 ft³
 No. of Occupants = 30 (15 ft² per person)

ROOF DL
 Metal Roofing 0.9 psf
 Underlayment 0.2 psf
 2" Nom. T&G Deck 4.4 psf
 Misc. 1.5 psf
 Total = 7.0 psf + weight of framing

COLUMN WRAPS = 1,800# Each (Allowance)

FLOOR LL
 L = 100 psf

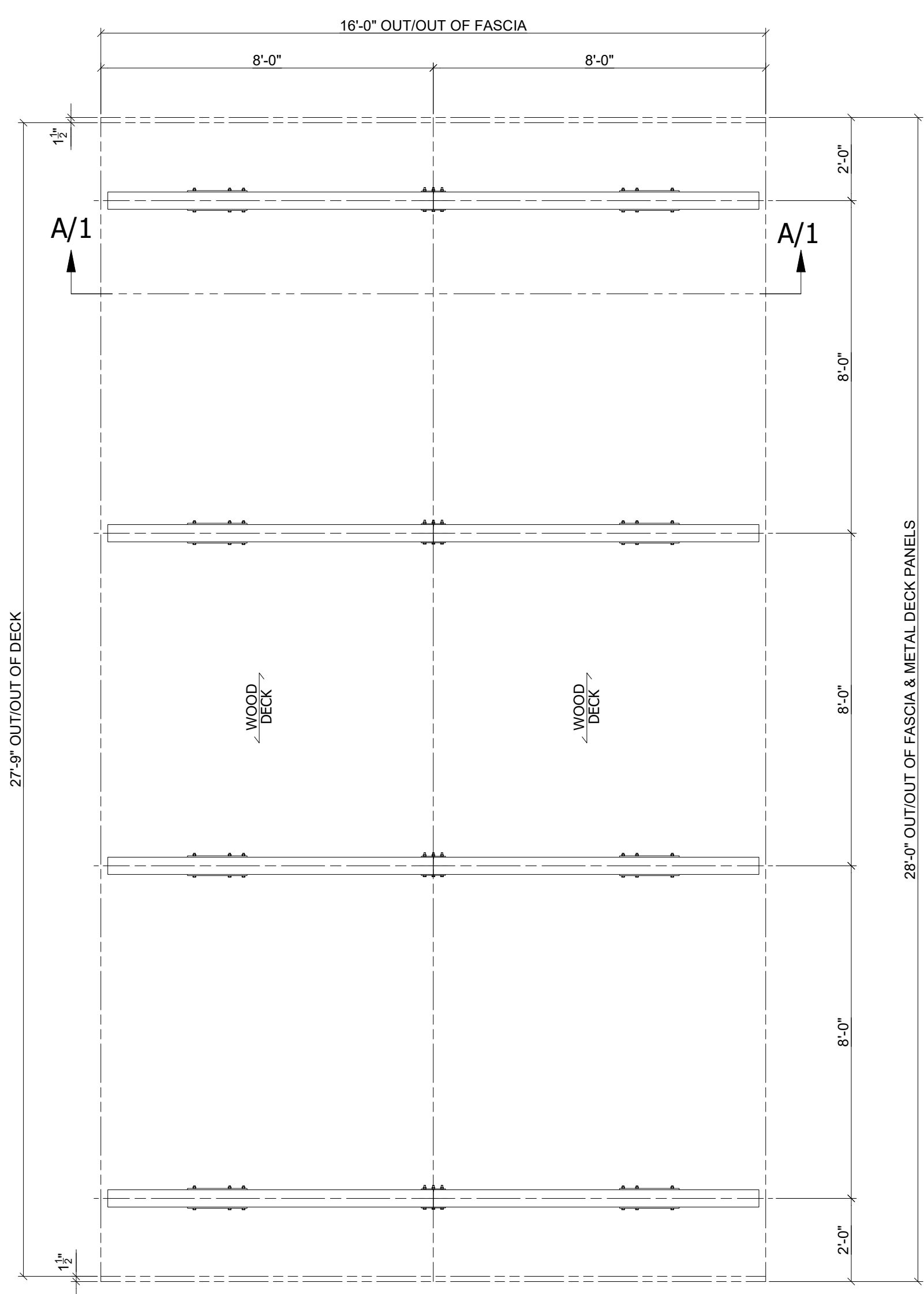
ROOF LL
 L_r = 20 psf

ROOF SL
 P_s = 42 psf (Ground Snow)
 P_r = 0.7 * P_s * C_e * C_{t1s}
 C_e = 1.0, C_t = 1.2, I_s = 1.0
 P_r = 35.3 psf
 P_s = P_r * C_s
 6:12 pitch; C_s = 1.0, P_s = 35.3 psf + unbalanced

WIND LOAD
 V_{ult} = 130 mph, V_{ref} = 101 mph
 Exposure 'B', Open Building w/ GC₁ = 0
 Component & Cladding Ultimate Wind Pressures: See ROOF PLAN on this sheet.

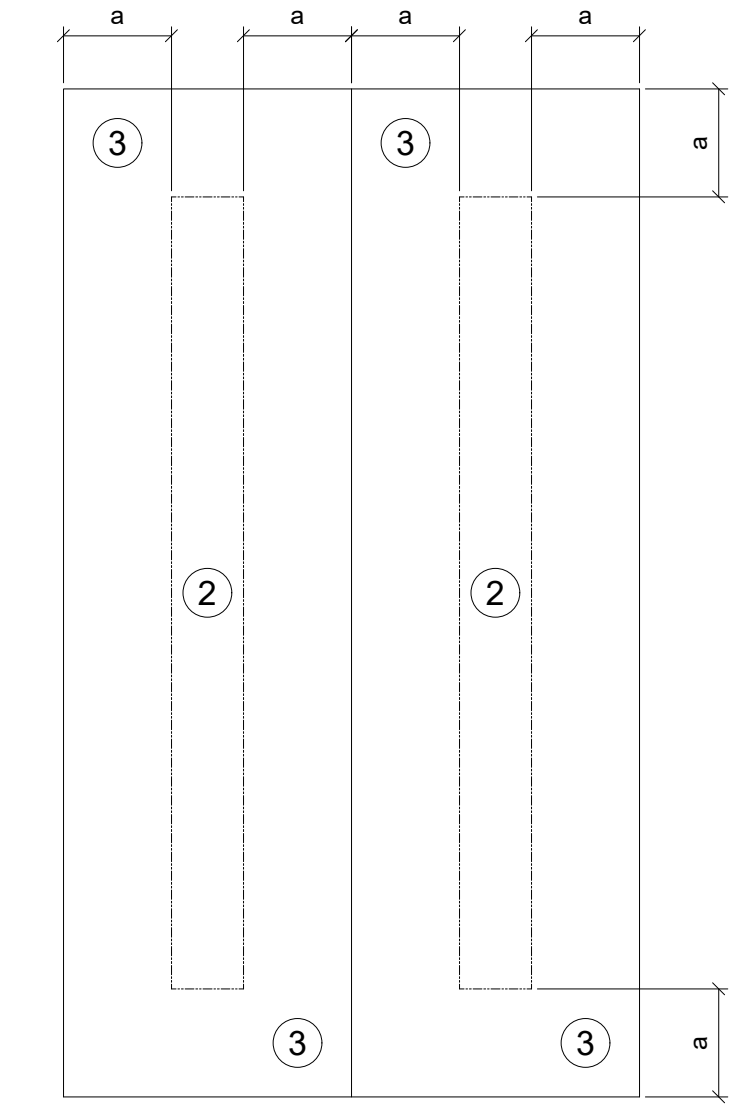
SEISMIC
 I_e = 1.0
 S_{DS} = 0.723, S₁ = 0.321
 Site Class D (assumed)
 S_{DS} = 0.589, S₁ = 0.424
 Seismic Design Category D
 Equivalent Lateral Force Procedure
 Cantilevered Column Systems - Timber frames
 R = 1.5, C_{cs} = 0.393, ρ = 1.3
COLUMN WRAPS -> a₁ = 2.5, R₁ = 2.5, C₁ = 2.5, V = 8,850#

DESIGN CERTIFICATION FOR:
 BUILDING SIZE: 16' x 28'
 BUILDING LOCATION: SANDY, OR
 THIS CERTIFICATION OF DRAWINGS IS FOR THE ONE BUILDING ONLY AT THE SITE LISTED ABOVE. IT IS VALID ONLY IF THE MATERIALS SHOWN ON THESE DRAWINGS ARE FURNISHED BY RCP SHELTERS AND ONLY IF MATERIALS ARE PAID FOR IN FULL.
 IF MODIFICATION IS MADE WITHOUT EXPRESSED WRITTEN CONSENT OF RCP SHELTERS, OR IF PAYMENT IS NOT MADE IN FULL, THEN CERTIFICATION BECOMES NULL AND VOID.



ROOF FRAMING PLAN

ERECTOR NOTE:
 SEE METAL DECK DETAILS FOR ATTACHMENT OF CAP/TRIM PIECES

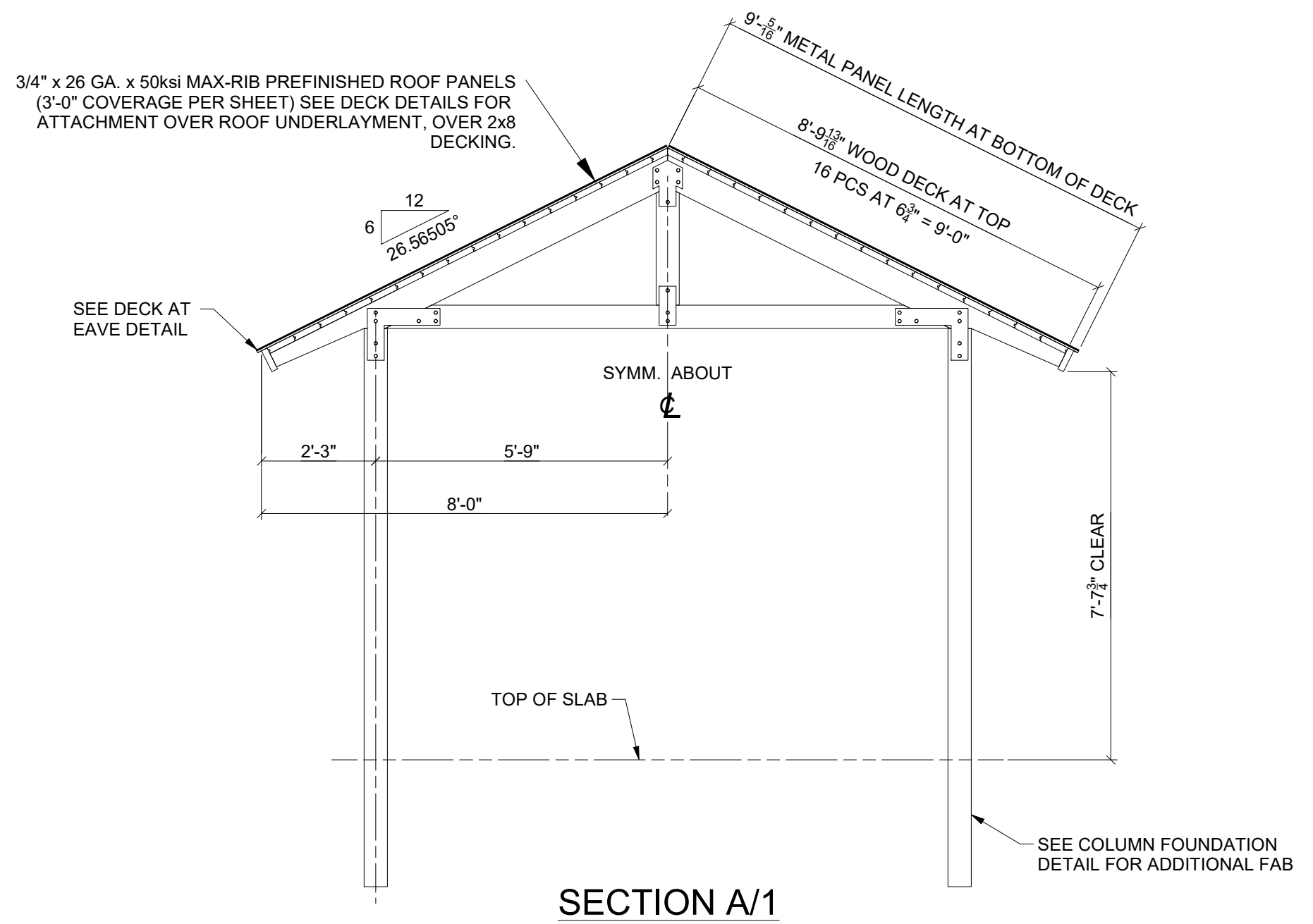


ROOF PLAN
 a = 3'-0"

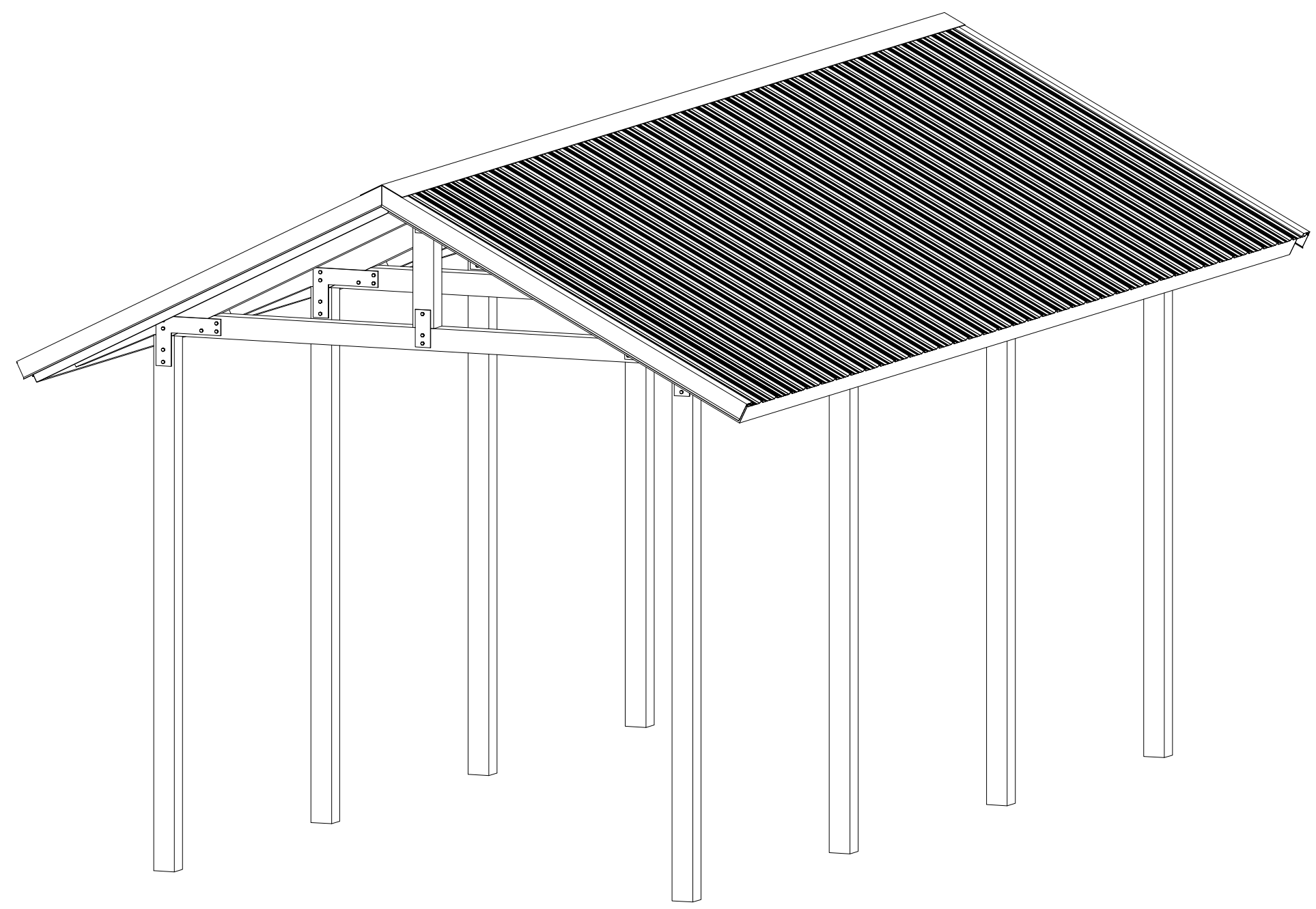
ULTIMATE PRESSURES FOR COMPONENTS & CLADDING

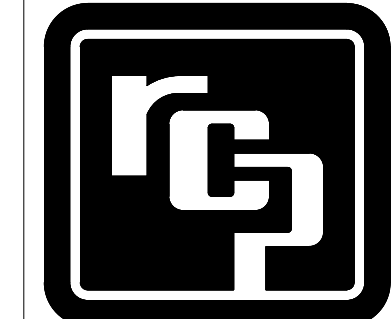
ZONE	PRESSURE	SUCTION	AREA
2	34.4 PSF	26.2 PSF	≤ 36 ft ²
2	22.3 PSF	16.9 PSF	> 36 ft ²
3	44.7 PSF	33.7 PSF	≤ 9 ft ²
3	34.4 PSF	26.2 PSF	> 9 ft ² , ≤ 36 ft ²
3	22.3 PSF	16.9 PSF	> 36 ft ²

CONTRACTOR NOTE:
 THESE SHOP DRAWINGS REPRESENT THE STRUCTURAL FRAMING AND ROOFING SYSTEM BEING PROVIDED BY RCP SHELTERS. CMU BLOCK, STONE VENEER AND STONE CAPS PROVIDED BY OTHERS ARE NOT SHOWN.



SECTION A/1





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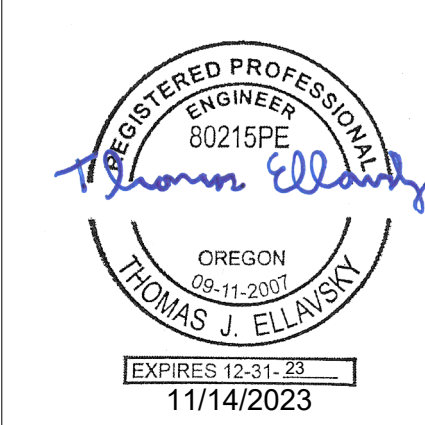
REV 3:

REV 4:

SHOP NO.: 14834

EEC JOB NO.: 14834

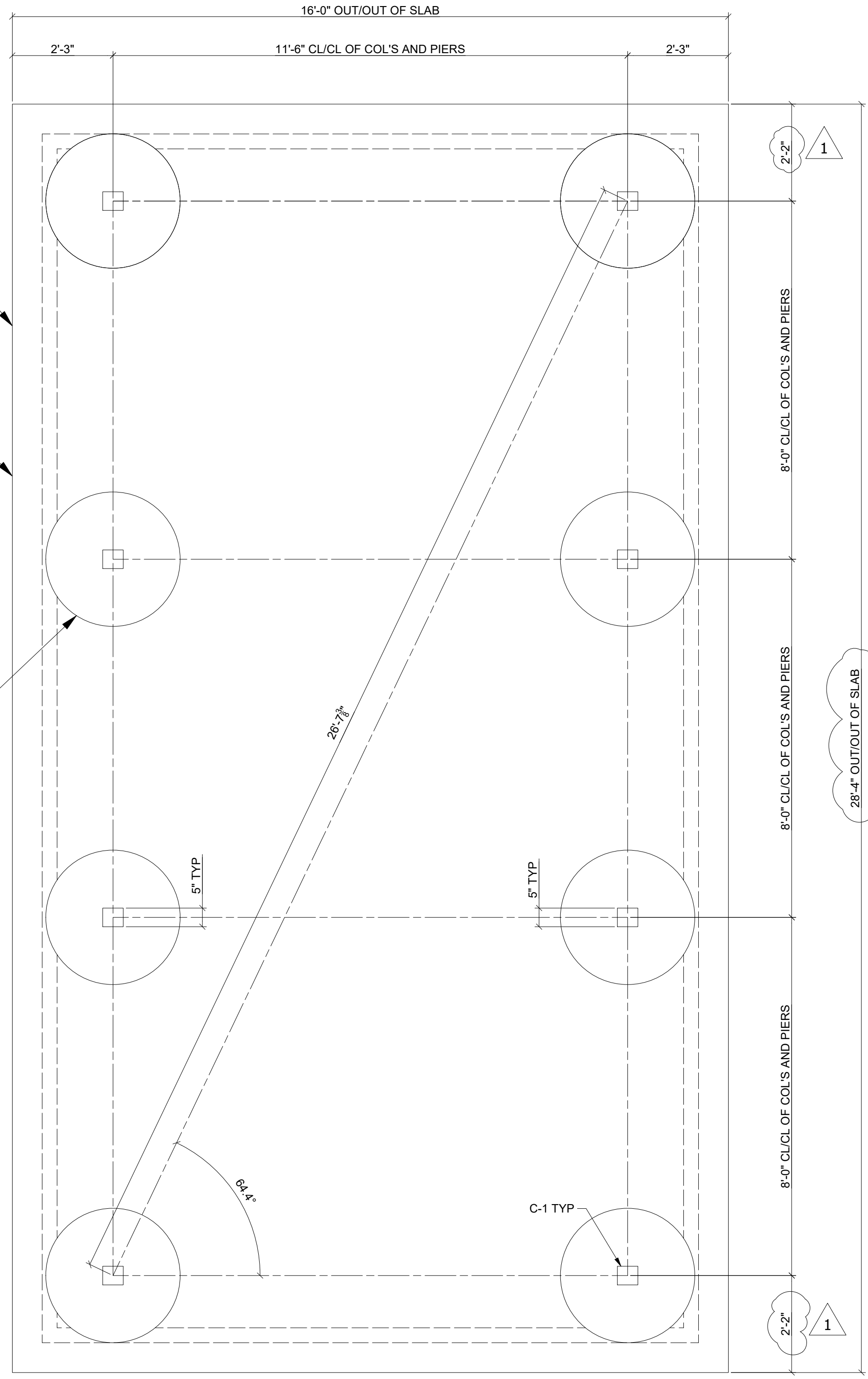
SHEET NO.: 2 OF 6



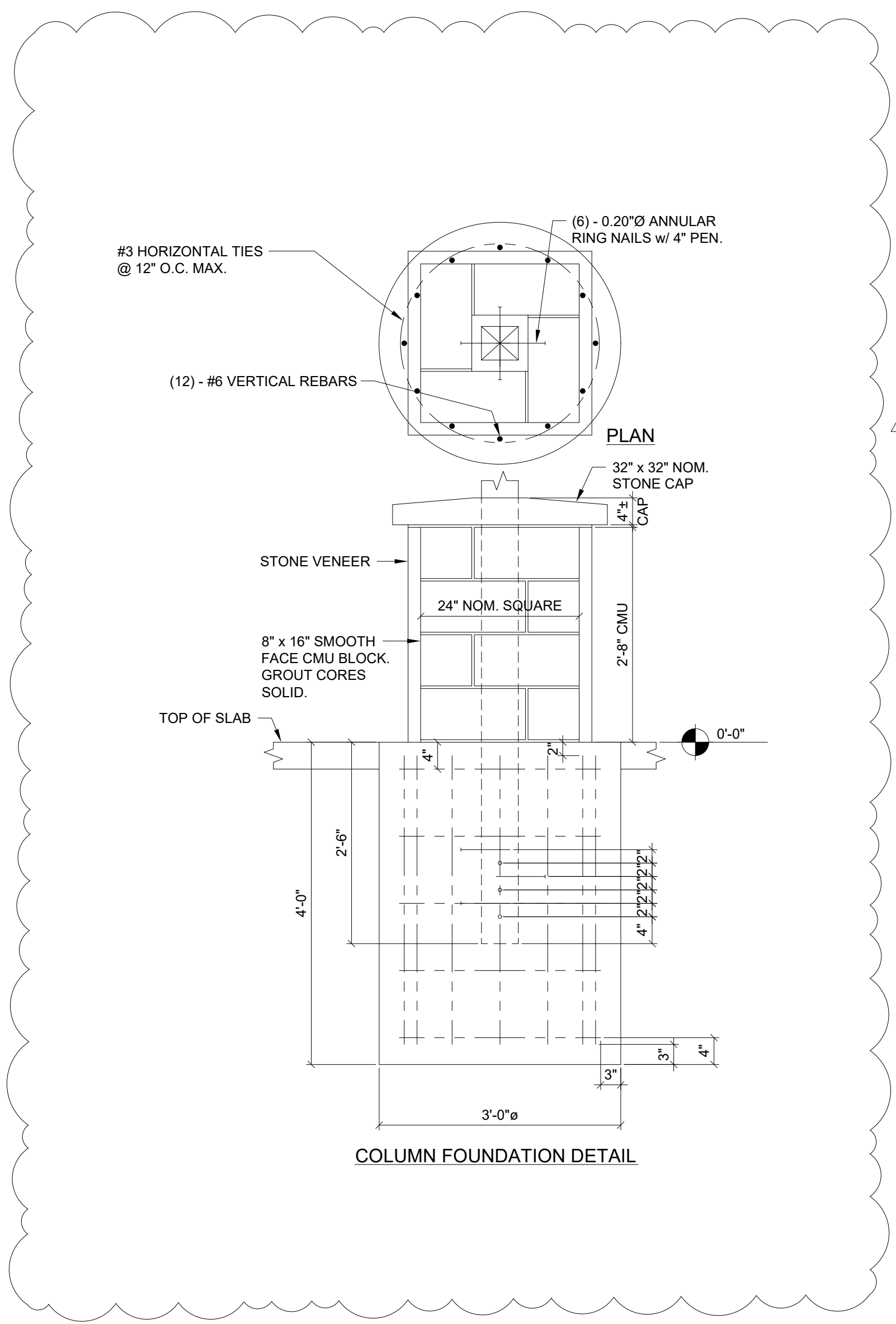
- CONCRETE NOTES:**
- Remove all organic material and topsoil from slab area. Verify suitability of subgrade. Footings are to bear on undisturbed natural soil or engineered fill. Both are to be compacted to 95% Proctor density.
 - Prepare slab with min. 8" compacted sand, gravel or crushed rock.
 - Concrete slab to be 4" thick. Reinforce slab with 6x6-w1.4xw1.4 welded wire fabric at mid-depth. Lap splices 8". Alt.: Fiber mesh admixture (min. 1.5#/c.y., fibrillated polypropylene).
 - Edge of slab to be thickened to min. 8" deep x 8" wide reinforced with 2-#4 continuous rebars. Lap splices min. 24".
 - In locations subject to frost, install isolation joint, max. 1/8" wide, around column piers using diamond or circular layout. Wire mesh shall be interrupted at isolation joints.
 - Install crack control joints (3/16" wide x 1" deep) at 8' to 12' o.c.
 - Concrete slabs in open areas are to be sloped for drainage from center to edge and away from columns. Surface is to be lightly broomed or have a wood troweled finish.
 - Concrete slabs in enclosed areas are to have positive drainage to floor drains and have a troweled finish.
 - Concrete slab, foundation, re-bar, wire mesh, leveling nuts, grout & anchor bolts (if required) are N.I.C.
 - All concrete reinforcing steel to be grade 60, deformed bars.
 - F_c of concrete to be 3000 psi @ 28 days for foundation. F_c of concrete to be 3500 psi @ 28 days for slab, air-entrained.
 - All concrete work to be in accordance w/ latest ACI code.
 - Assumed allowable soil bearing pressures: 1500 psf vertical bearing, 150 pcf passive lateral bearing. It is the Owner's responsibility to verify that the allowable soil bearing values at the site meet or exceed these assumed values. If the actual values are lower than the assumed values, the foundation must be redesigned (N.I.C.).
 - Reinforcement shall be securely held in place while placing concrete. If required, additional bars, stirrups or chairs shall be provided to furnish support for bars.

FOUNDATION HARDWARE PARTS LIST

QTY	HARDWARE DESCRIPTION	REMARKS
48	0.200 x 8" ANNULAR RING NAIL	GALV



FOUNDATION PLAN



COLUMN FOUNDATION DETAIL

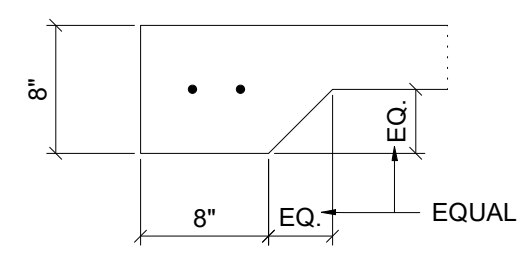
COLUMN BASE REACTIONS:

↑ V_{DL+SL UNB.} = 3,550#

↓ V_{0.6'DL+0.6'WL} = -160#

→ H_{DL+0.7'E} = 410#

↺ M_{O.T. DL+0.7'E} = 3,350#-ft



THICKENED SLAB EDGE DETAIL

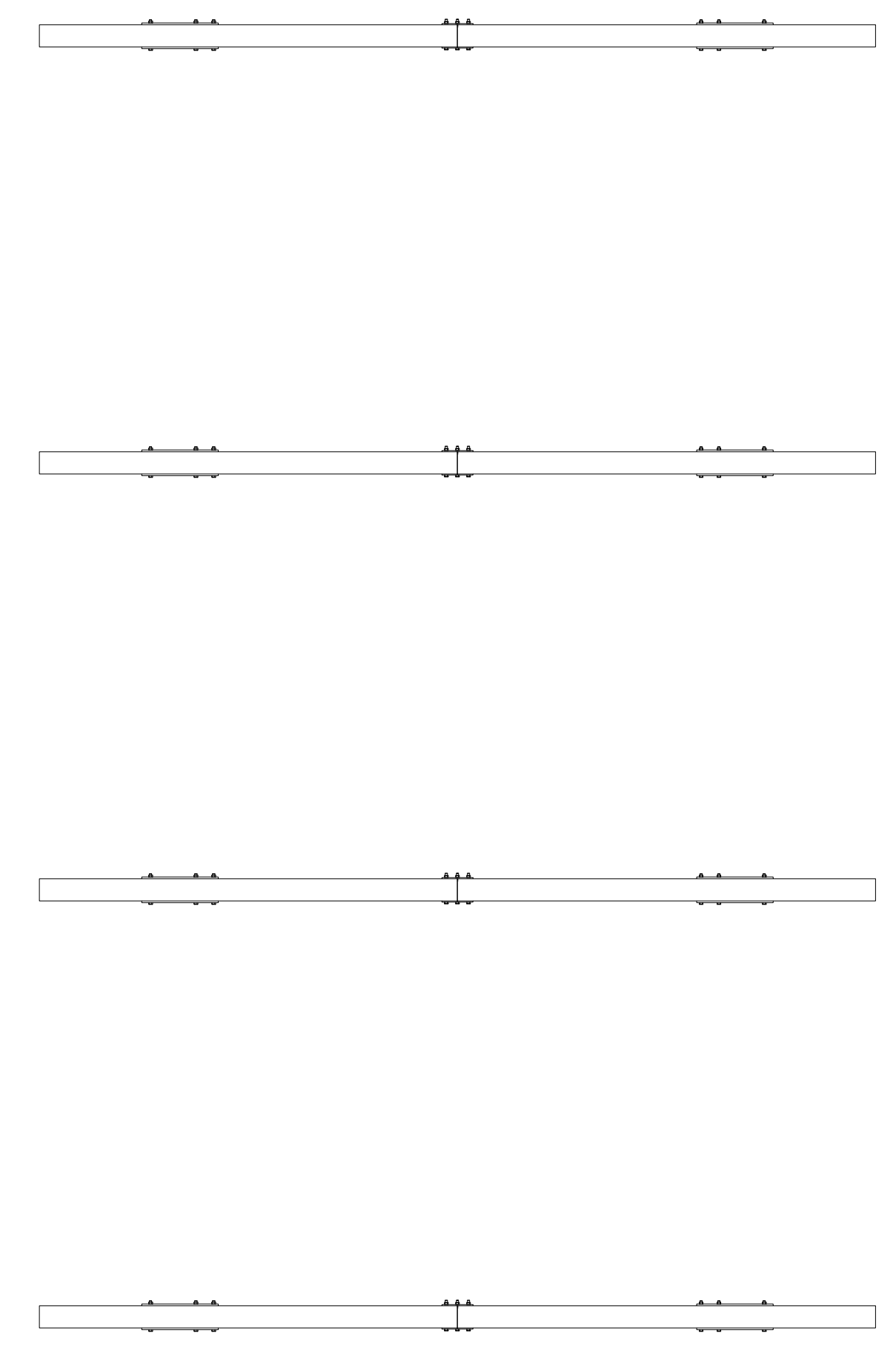
ALL DIMENSIONS SHOWN SPRINGING OFF OF THE SLAB EDGE ARE MINIMUMS. OWNER TO DETERMINE SLAB SIZE PRIOR TO CONSTRUCTION.

SEE THICKENED SLAB EDGE DETAIL ON THIS SHEET.

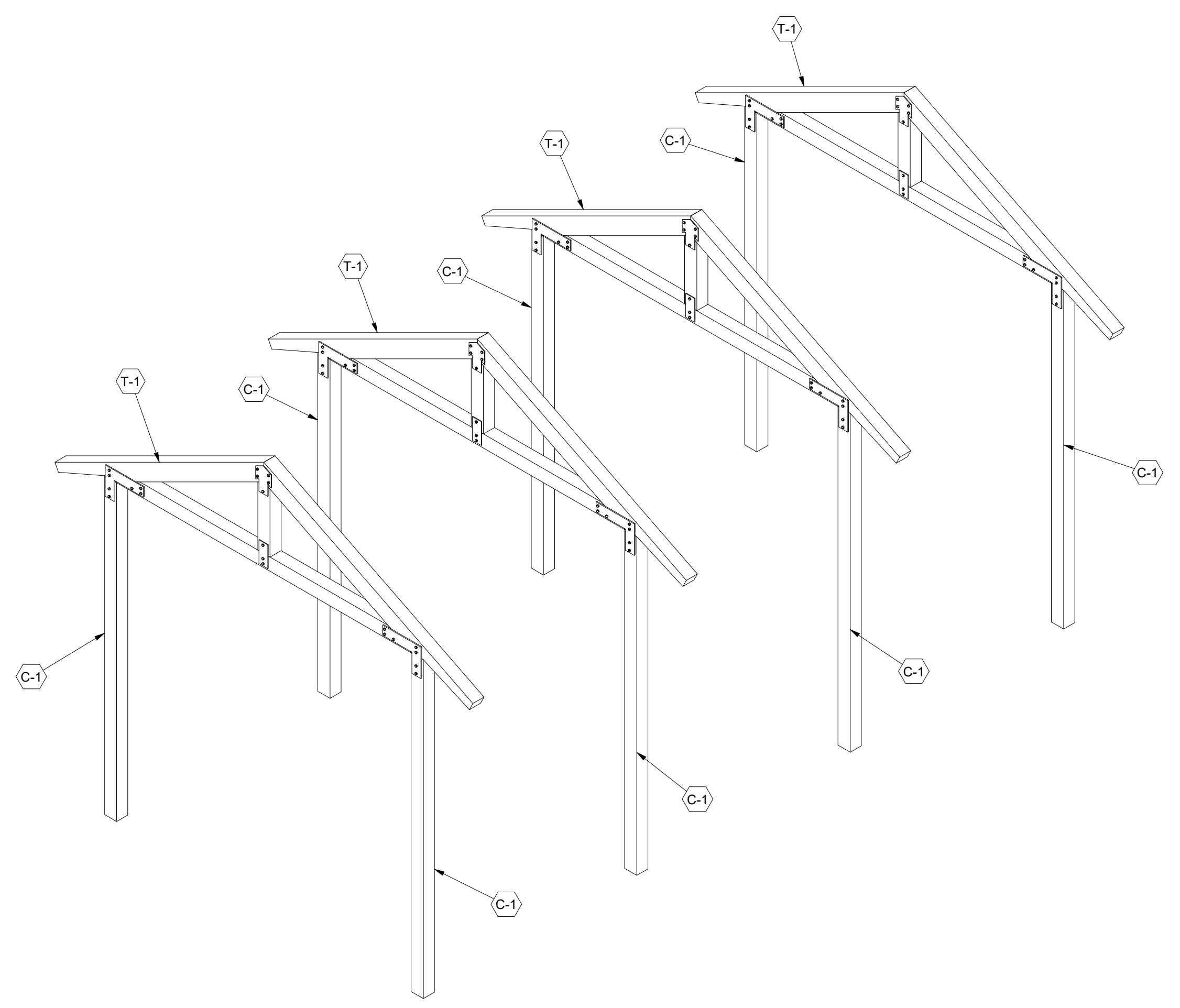
SEE COLUMN FOUNDATION DETAIL ON THIS SHEET.

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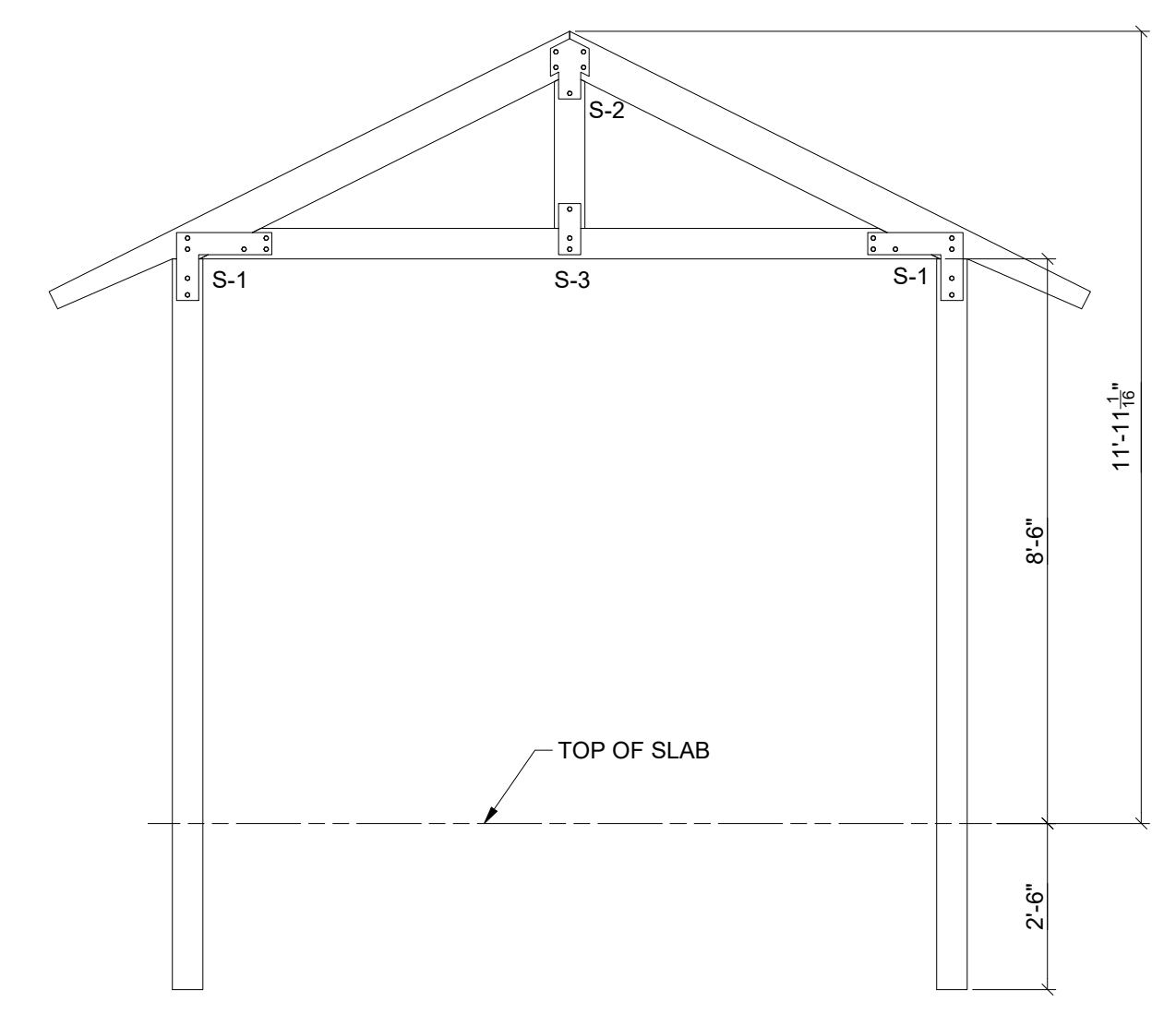
Structural Members					
Qty	MEMBER NUMBER	TYPE	SIZE	STRESS COMB.	REMARKS
8	C-1	LAM	5" x 5 1/2"	#50(1:12)	TREATED
4	T-1	LAM	VARIES	VARIES	BC-1 & W-1 ARE TREATED



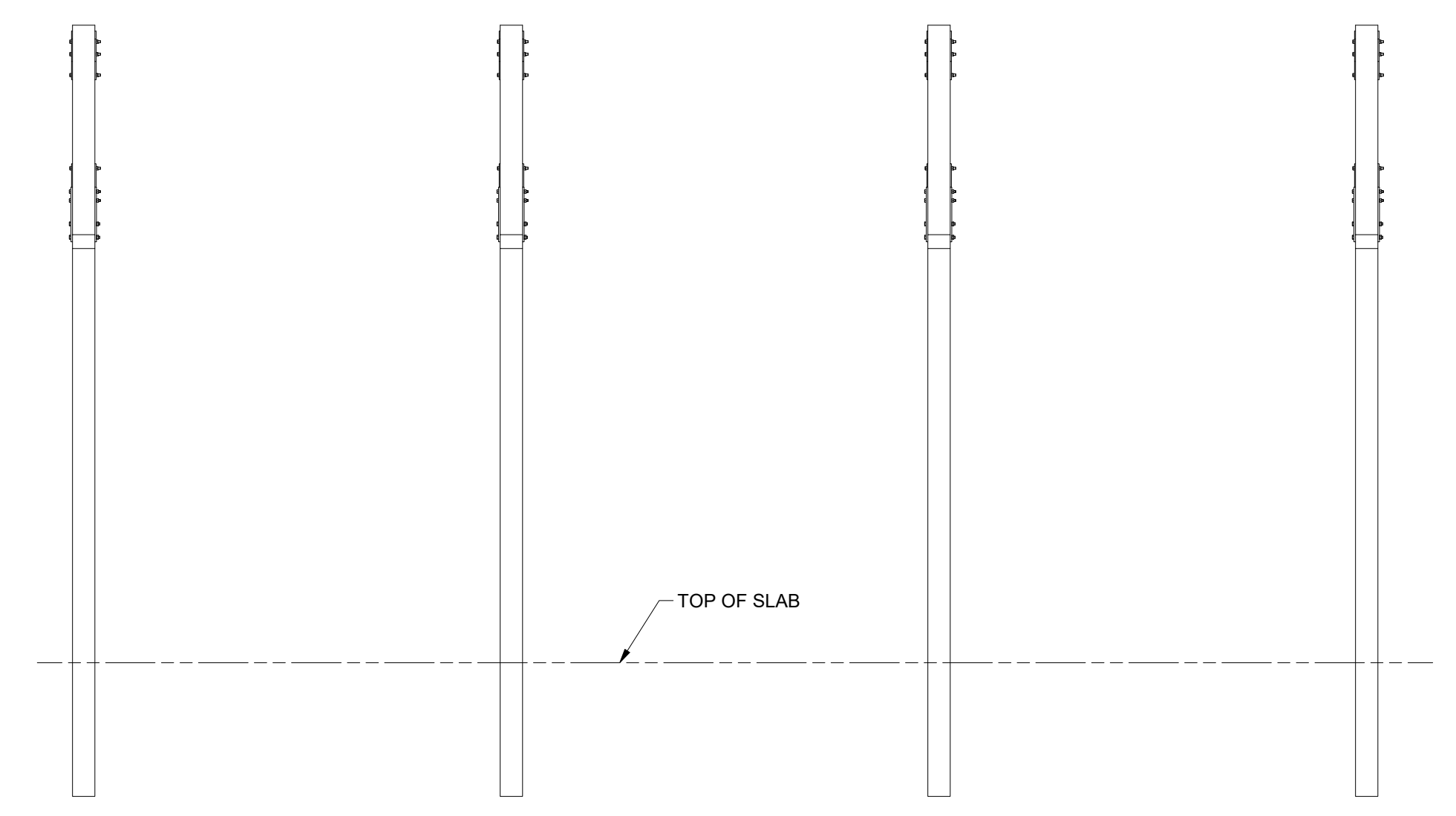
PLAN



ISOMETRIC



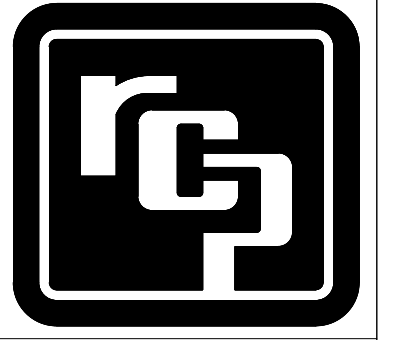
FRONT



SIDE

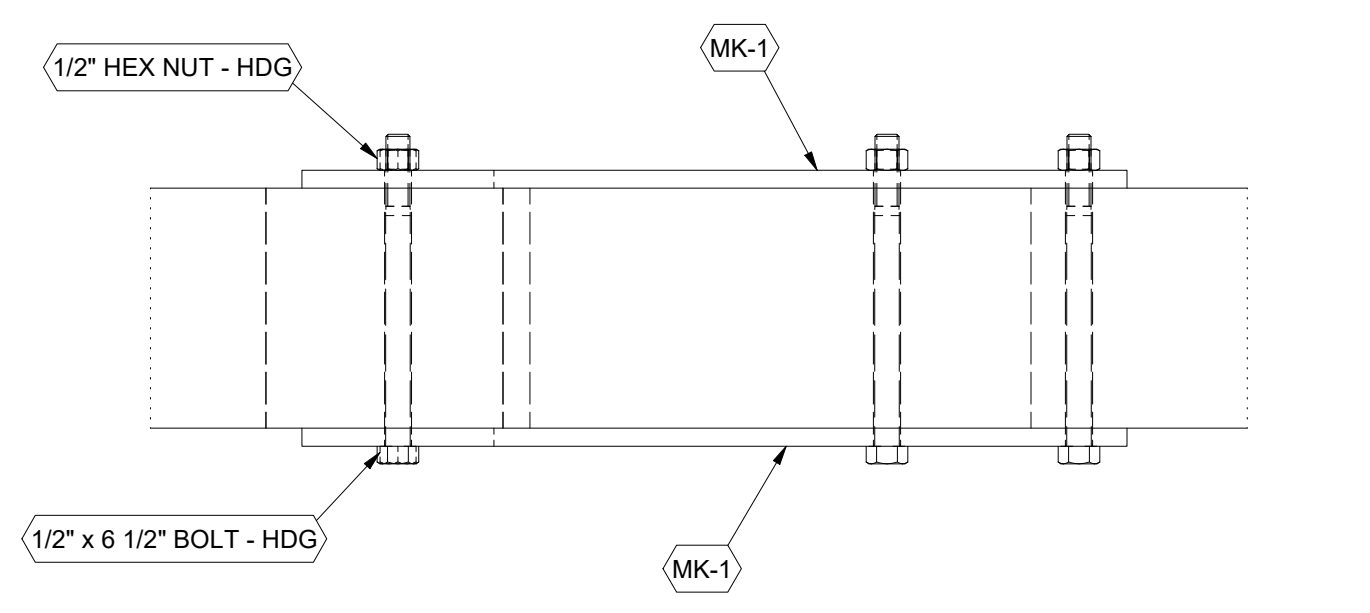
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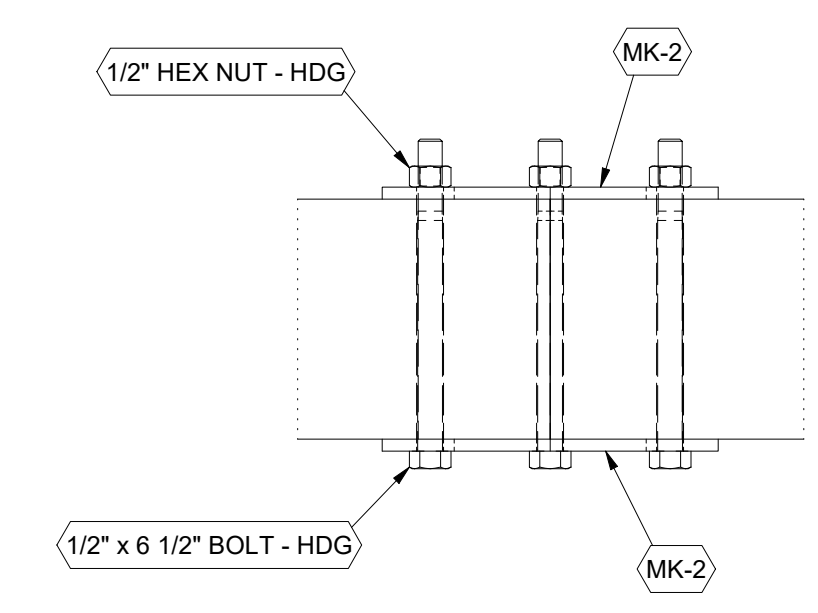
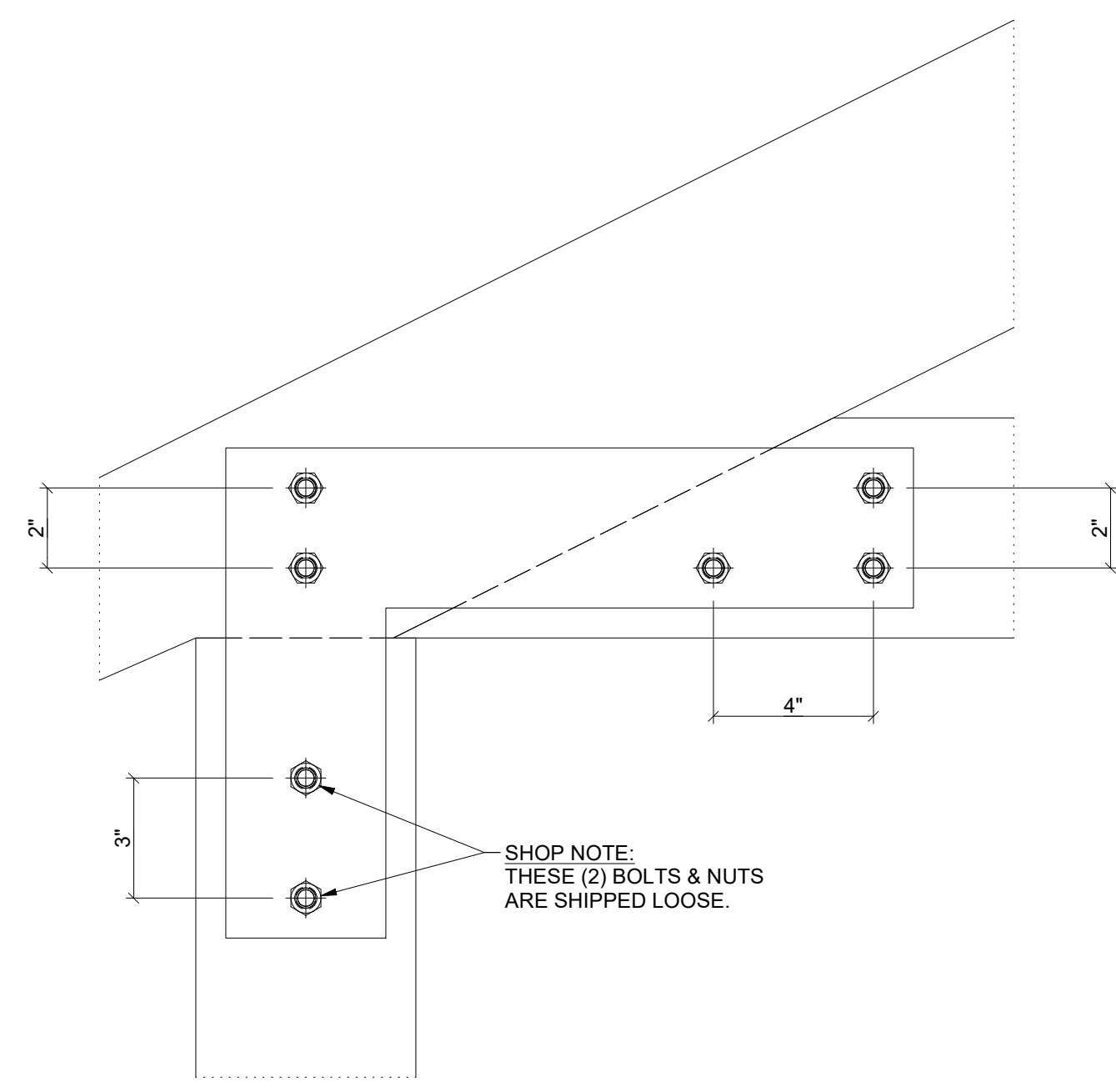


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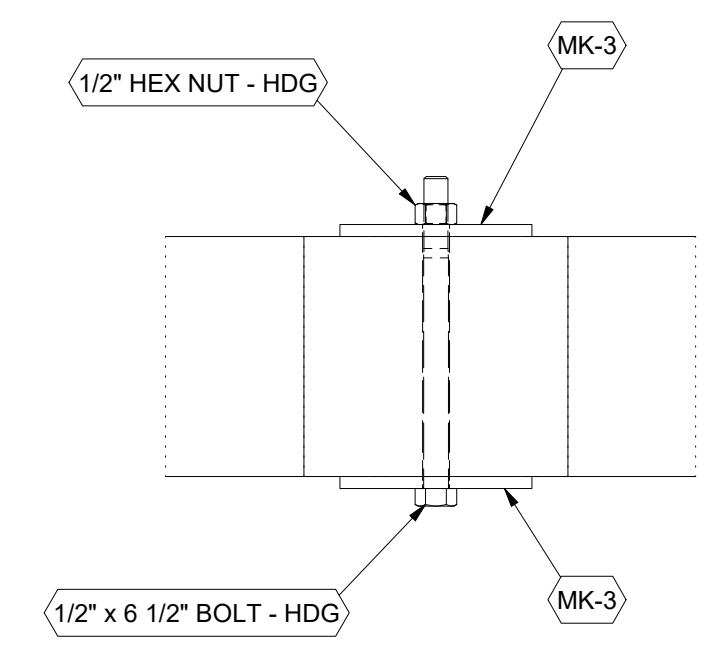
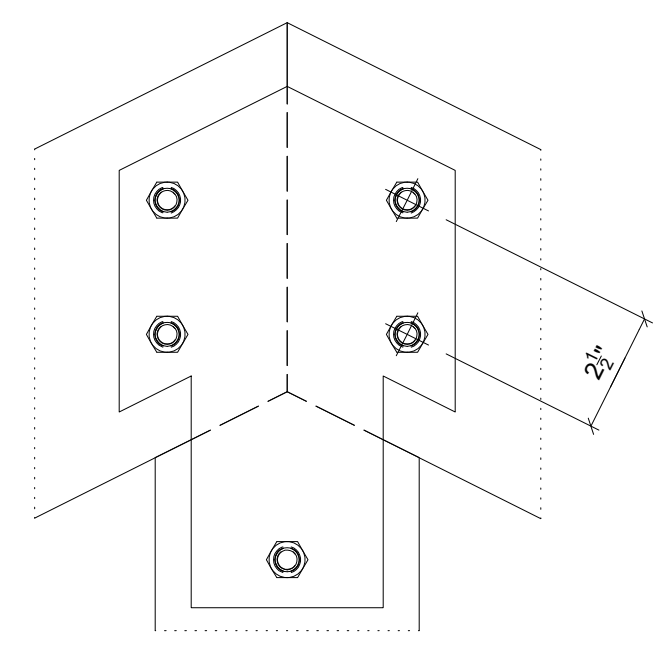




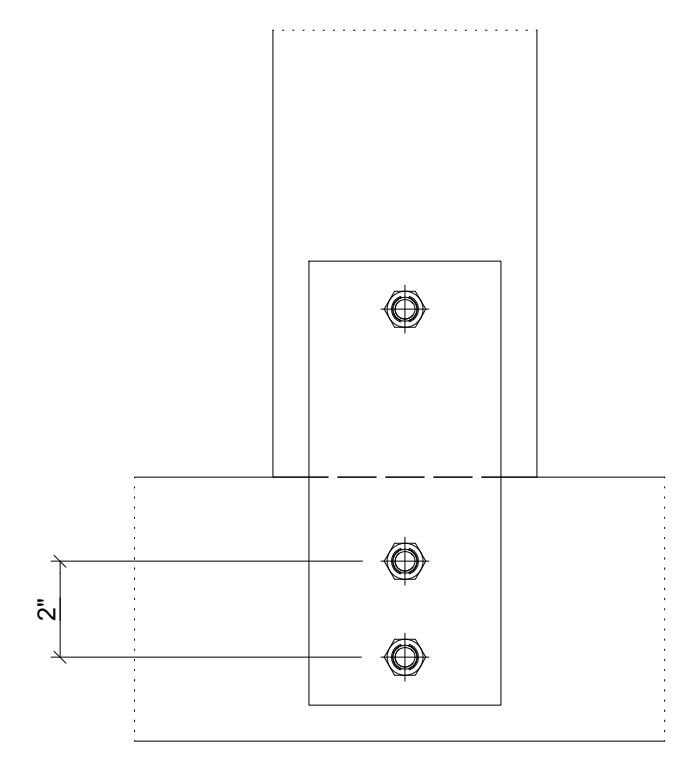
CONN S-1



CONN S-2



CONN S-3

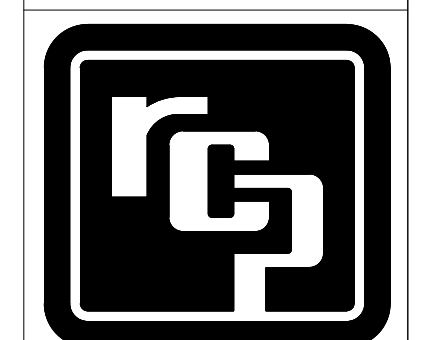


Hardware Parts List		
Qty	Hardware Description	Remarks
88	1/2" HEX NUT - HDG	
88	1/2" x 6 1/2" BOLT - HDG	

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4 OF **6**

UNLOADING, HANDLING, & STORAGE OF GLU-LAM & DECKING

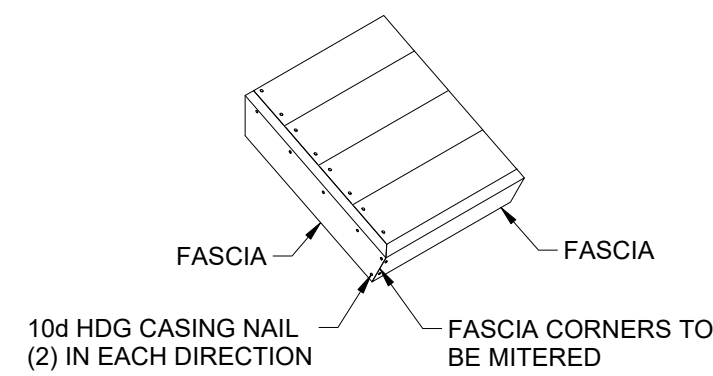
LAMINATED MEMBERS ARE WRAPPED FOR PROTECTION IN TRANSIT. THE ERECTOR IS RESPONSIBLE FOR PROTECTION OF MATERIALS AT ALL TIMES AFTER ARRIVAL AT DESTINATION. IF STORED TEMPORARILY, MEMBERS SHOULD BE PLACED ON BLOCKS & LEVELED, WELL OFF OF THE GROUND & SEPARATED WITH WOOD STRIPS SO THAT AIR CAN CIRCULATE AROUND EACH MEMBER. COVER THE TOP & SIDES WITH MOISTURE RESISTANT PAPER OR OPAQUE PLASTIC. USE NON-MARRING SLINGS WHEN HANDLING. ROOF COVERING SHOULD BE APPLIED SOON AFTER ERECTION. PROTECTIVE WRAPPING SHOULD REMAIN ON THE MEMBERS UNTIL DECK HAS BEEN INSTALLED & ROOFING APPLIED. HOWEVER, IF THE PAPER HAS BEEN TORN OR PARTIALLY REMOVED DURING STORAGE OR ERECTION, IT SHOULD BE REPLACED OR ENTIRELY REMOVED TO PREVENT DISCOLORATION OF LAM MEMBERS BY SUNLIGHT.

LAMINATED MEMBERS RECEIVE ONE FACTORY APPLIED COAT OF CLEAR WOOD SEALER. (FACTORY STAIN IS OPTIONAL AT EXTRA COST). IF THEY SHOULD BECOME WET DURING SHIPMENT OR INSTALLATION, OR IF THEY ARE CLEANED IN ANY WAY, THESE LAMINATED MEMBERS SHOULD BE UNIFORMLY RESEALED BEFORE ADDITIONAL STAINING OR FINISHING IS DONE IN THE FIELD.

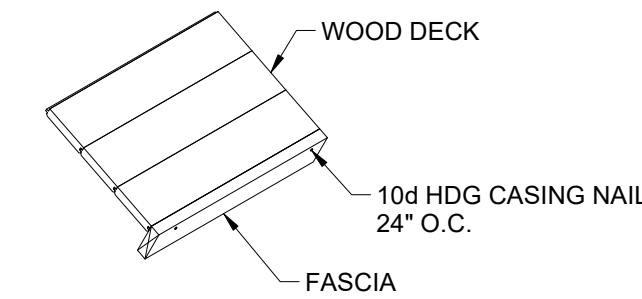
DECKING WILL BE DELIVERED IN BANDED BUNDLES, WEIGHING APPROXIMATELY TWO TONS. BUNDLES SHOULD REMAIN BANDED UNTIL DECK IS TO BE INSTALLED. A FORKLIFT OR SMALL CRANE WILL BE REQUIRED FOR UNLOADING. BE SURE TO USE NON-MARRING SLINGS. IF STORED TEMPORARILY, DECK SHOULD BE PLACED ON BLOCKS & LEVELED, WELL OFF OF THE GROUND. IF WOOD DECKING IS WET &/OR STAINED, CONTACT RCP SHELTERS AND DO NOT INSTALL DECK.

IT IS THE ERECTORS RESPONSIBILITY TO TALLY THE DECKING UPON ARRIVAL. NOTIFY "RCP SHELTERS" AT ONCE OF ANY SHORTAGES.

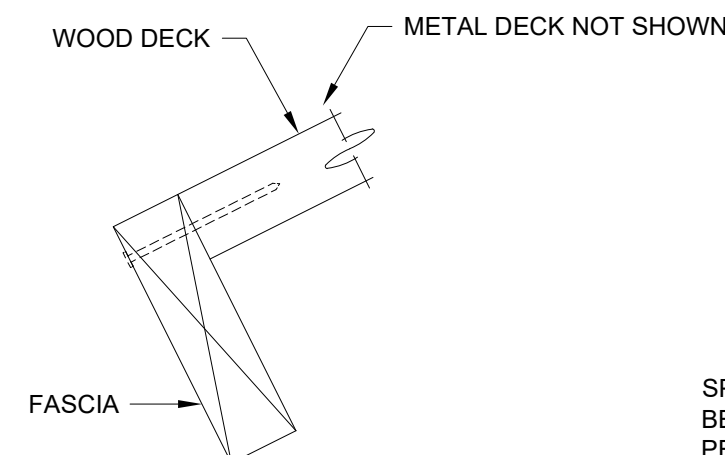
THE ACTUAL ROOF PITCH MAY VARY FROM THESE GENERAL DETAILS.



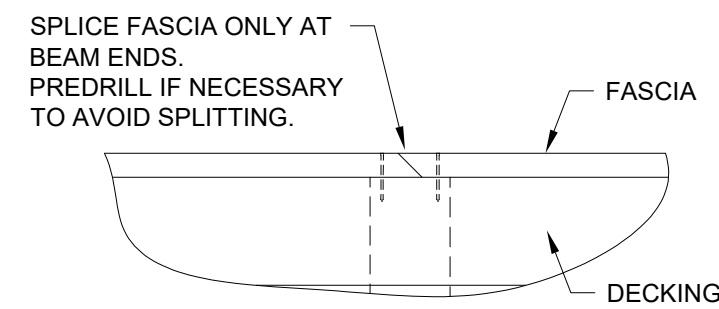
DECK AT CORNER



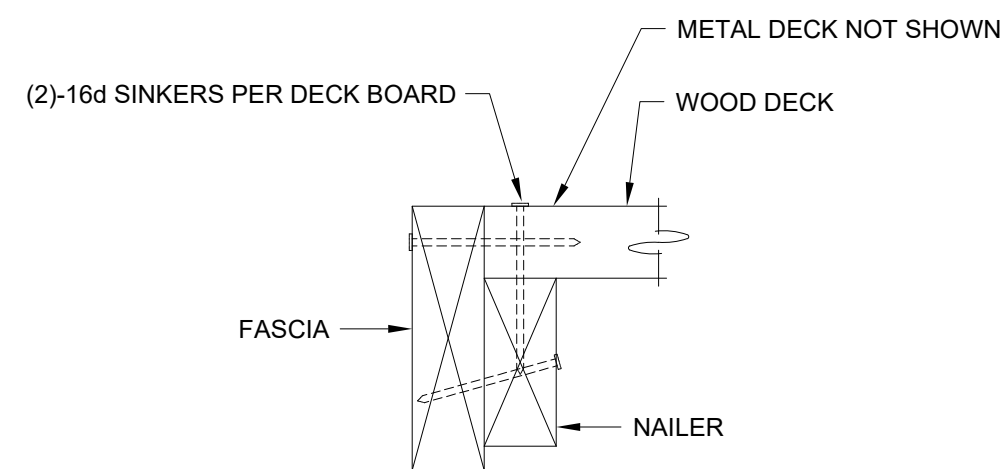
DECK AT EAVE



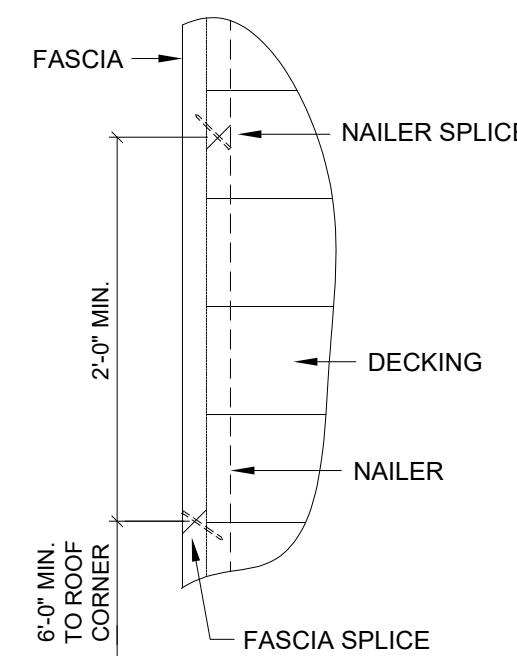
SECTION AA



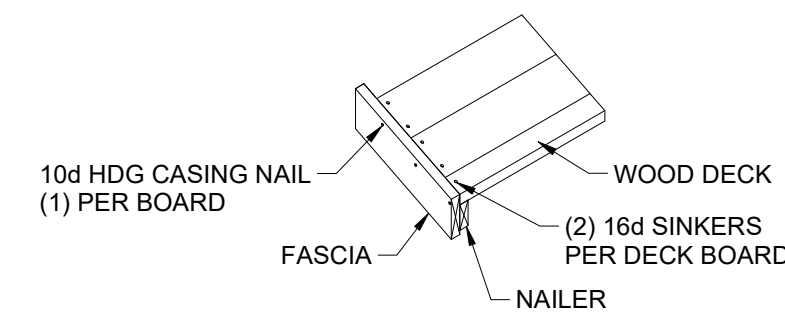
DETAIL A



SECTION BB



DETAIL B

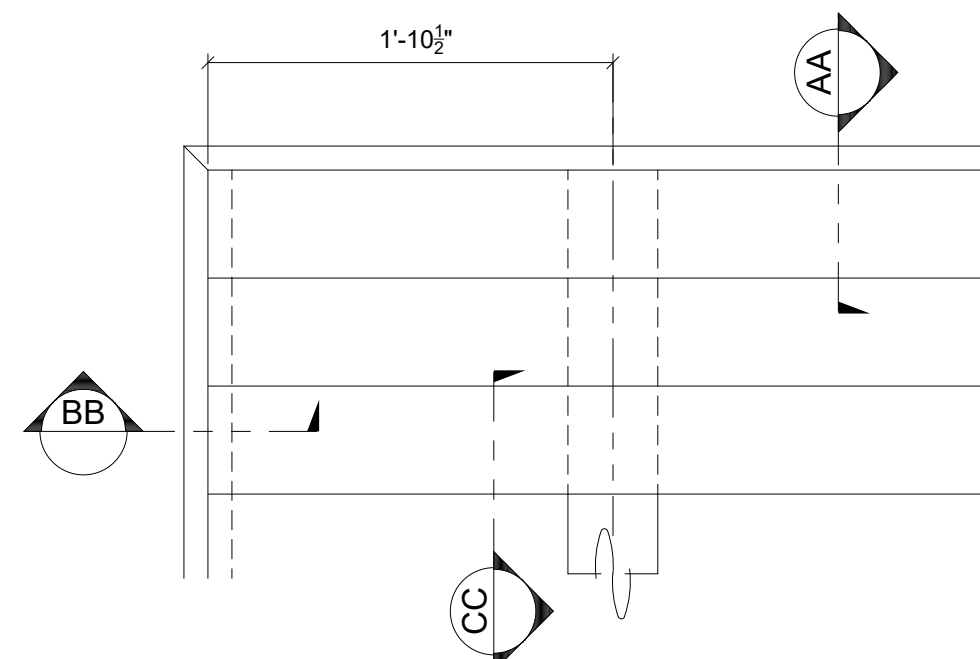


DECK AT RAKE

WOOD DECK HARDWARE PARTS LIST		
QTY	HARDWARE DESCRIPTION	REMARKS
	10d HDG CASING NAIL (0.128"ø x 3")	N.I.C., HDG
	16d SINKER NAIL (0.148"ø x 3 1/4")	N.I.C.
	16d COMMON NAIL (0.162"ø x 3 1/2")	N.I.C.

TYPICAL DECK LAY-UP

1. START LAYING DECK AT EAVE W/ TONGUES UP.
2. DRIVE COURSES TIGHT W/ BLOCKING.
3. TOE NAIL & FACE NAIL AT EACH SUPPORT (BEAMS) USING 16d COMMON NAILS.
4. SNAP CHALK LINE AT BUILDING RAKE & CUT DECKING STRAIGHT AND SQUARE.
5. DECKING IS FURNISHED IN SPECIFIED LENGTHS. ALTERNATE COURSES 18"10" AND 10"18".



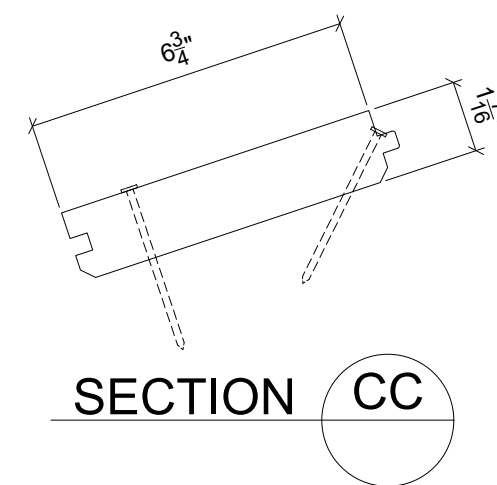
DECK PLAN AT CORNERS

FASCIA NOTES:

1. ALL FASCIA CORNERS AND SPLICES ARE TO BE MITERED.
2. SEE DETAILS A & B FOR SPLICE DETAILS, IF SPLICES ARE REQUIRED.
3. ATTACH FASCIA WITH 10d HDG CASING NAILS:
 - a. TO 2x4 NAILER - 24" O.C.
 - b. TO BEAM ENDS - 3 NAILS PER FASCIA
 - c. TO ENDS OF ROOF DECKING - 1 NAIL PER DECK BOARD
 - d. AT CORNERS - 2 NAILS EACH DIRECTION
 - e. OTHER LOCATIONS - 24" O.C. TO ROOF DECKING

2 x 4 NAILER (IF SPLICE REQ'D)

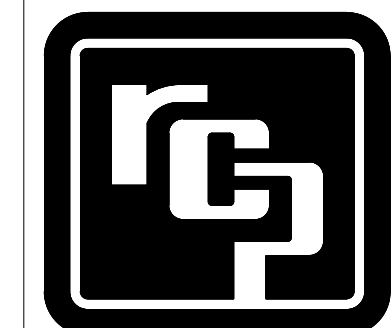
- A. MITER ALL SPLICES
- B. NAIL SPLICES TOGETHER WITH (2) 10d HDG CASING NAILS, DRIVE NAILS AT AN ANGLE TO AVOID PUNCHING THRU FASCIA.



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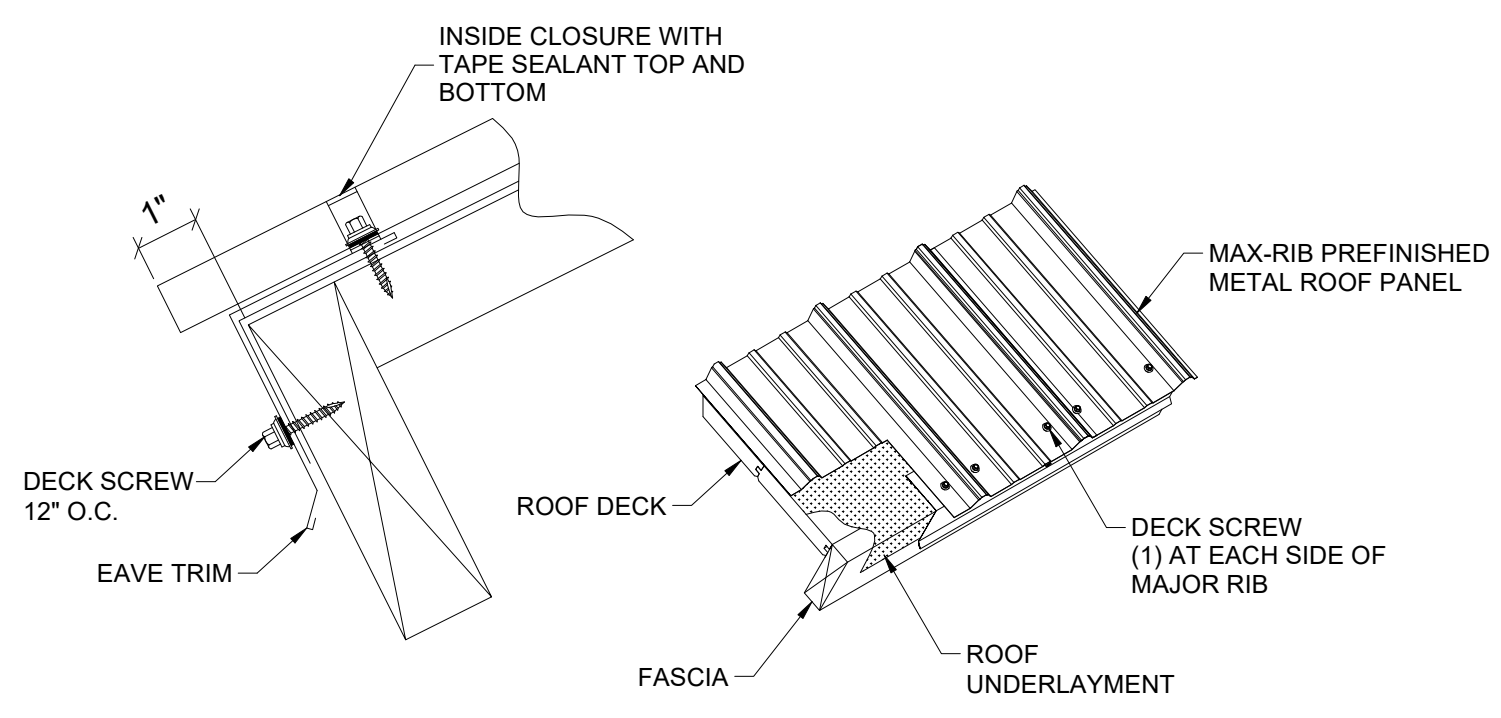
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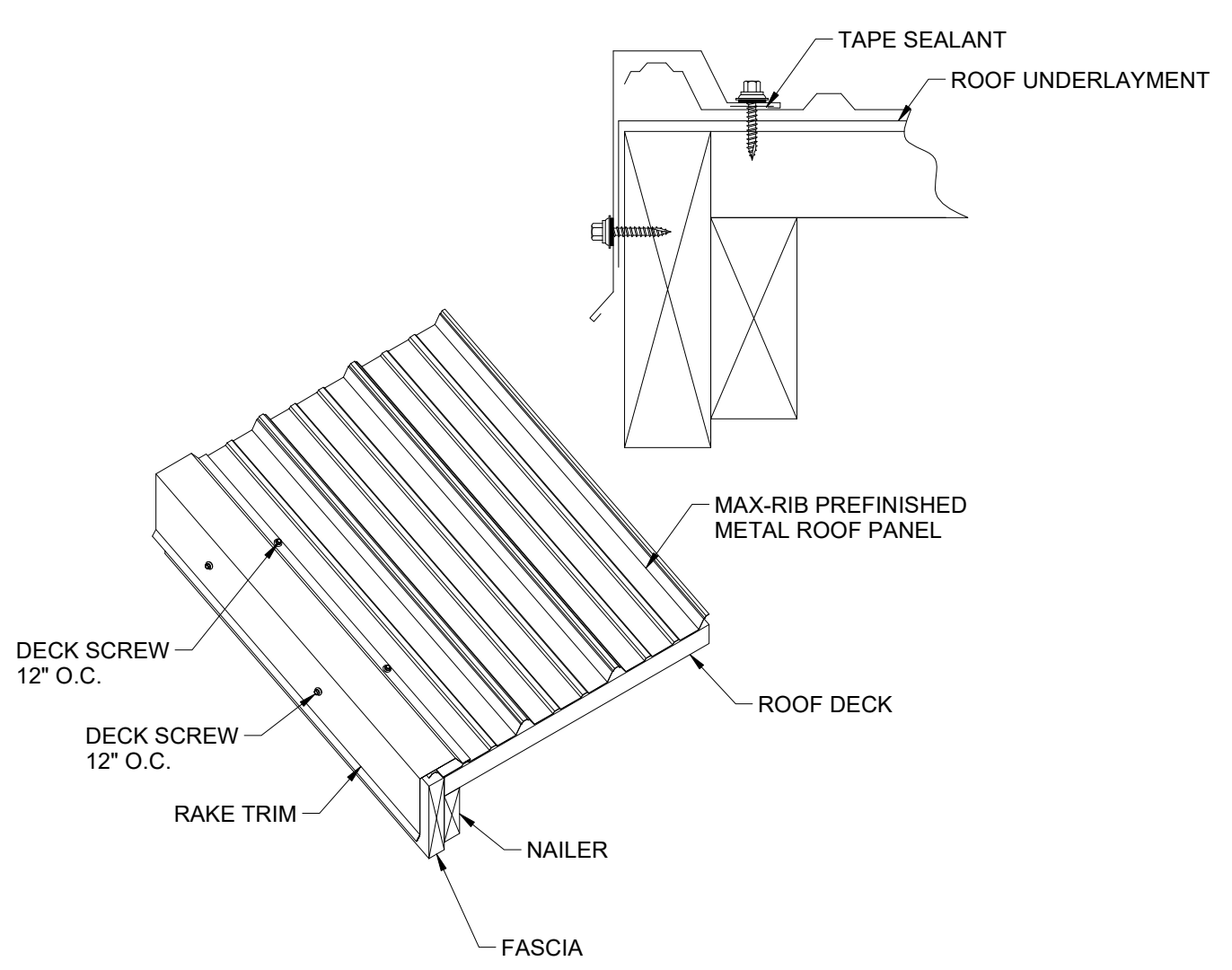
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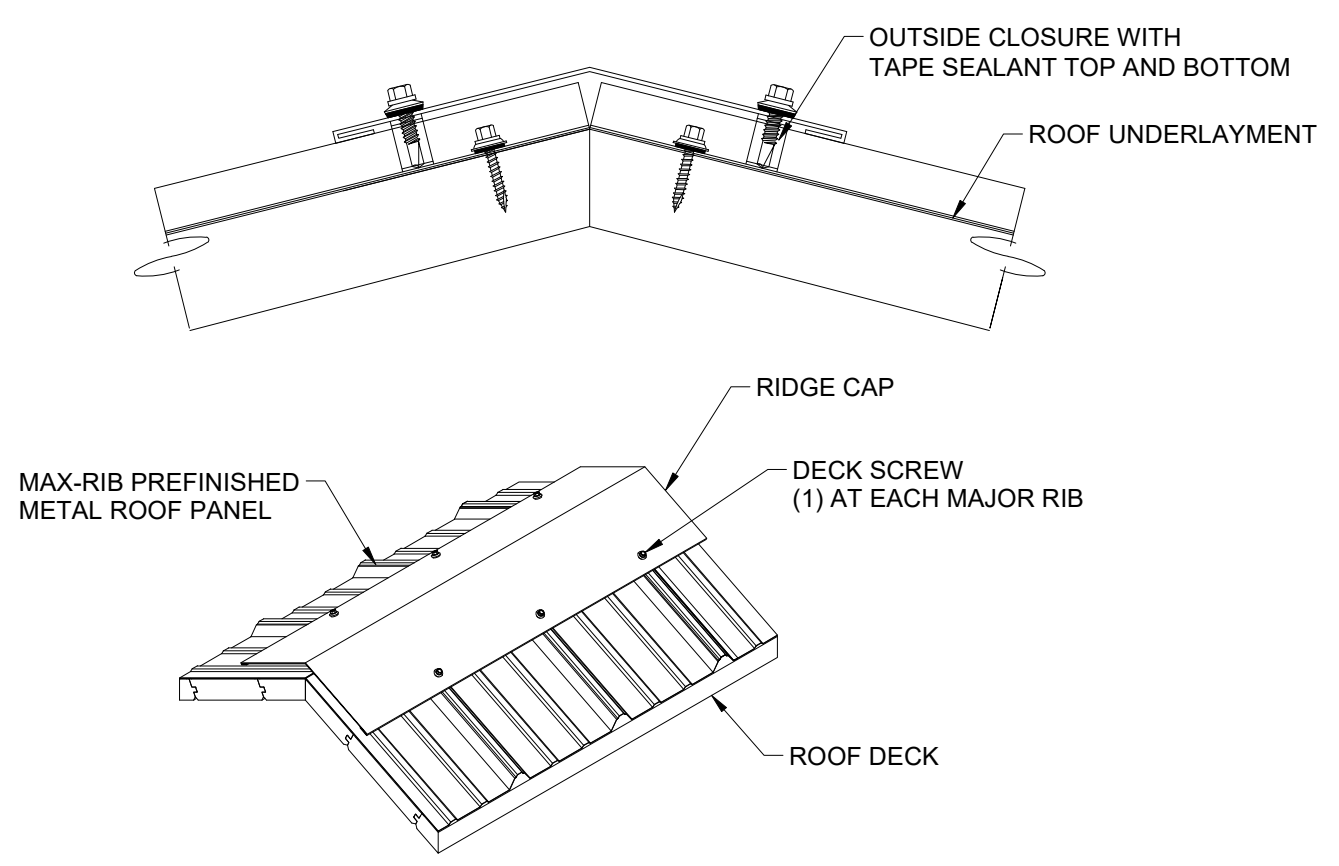
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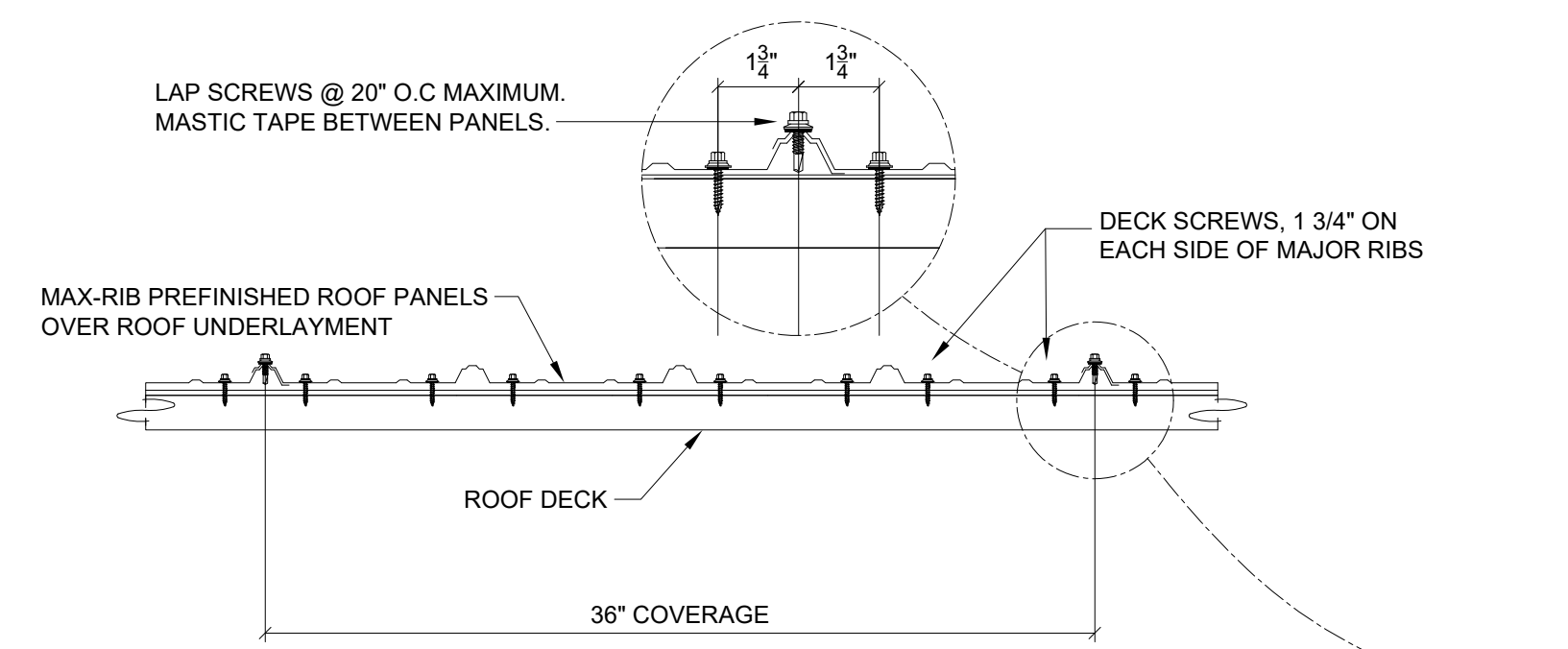
DECK AT EAVE



DECK AT RAKE

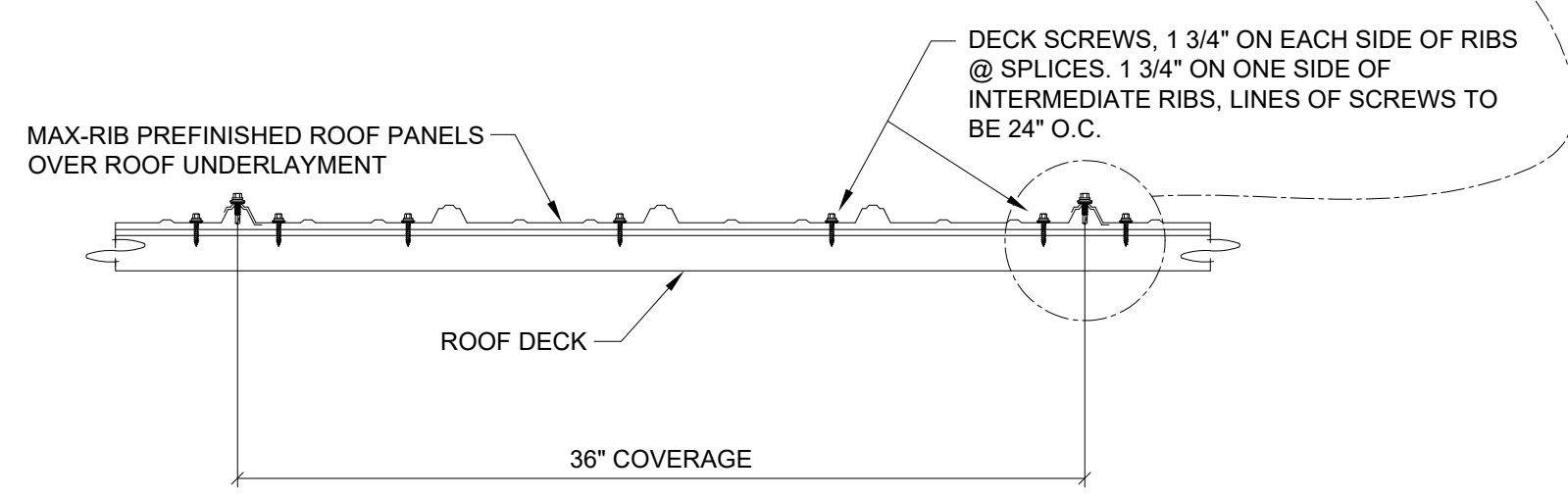


DECK AT RIDGE

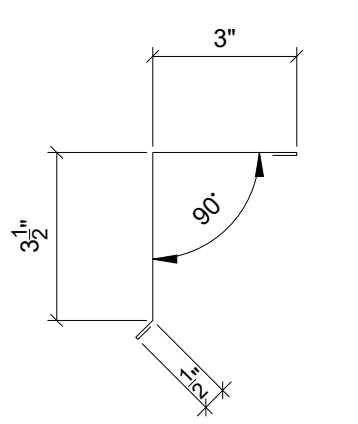


SECTION THRU ROOFING PANEL @ EAVE

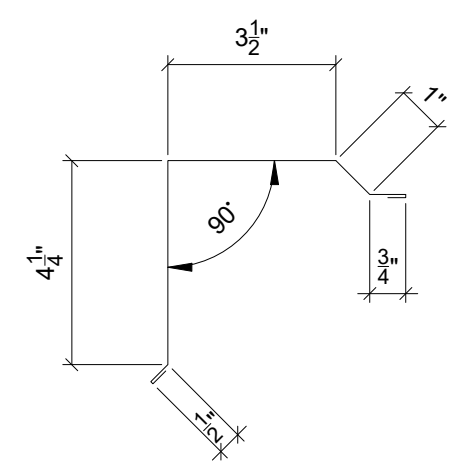
(METAL DECK ATTACHMENT ALONG RIDGE IS SAME AS AT THIS SECTION)



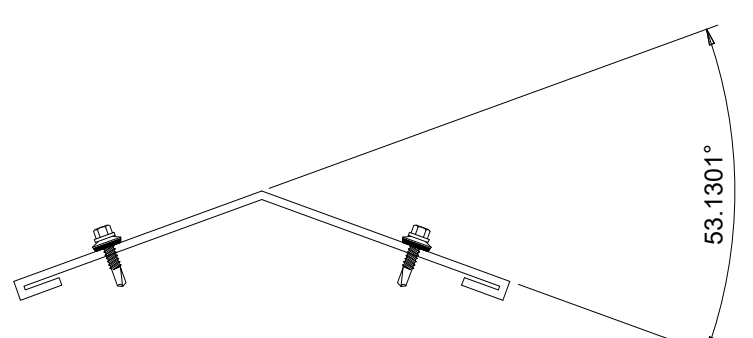
SECTION THRU ROOFING PANEL @ INTERIOR



EAVE TRIM
60 LN. FT. REQUIRED



RAKE TRIM
40 LN. FT. REQUIRED



9" RIDGE CAP

32 LN. FT. REQUIRED

INSTALLATION:
FASTEN RIDGE CAP TO EACH ROOFING PANEL AT HIGH RIB.
(1) LAP SCREW EACH SIDE

SELF-DRILLING SCREW SPECIFICATIONS:
LAP SCREW = 1/4-14x7/8 IMPAX LAP, 5/16" HEX HEAD
DECK SCREW = 9-15x1 WOODGRIP HWH SHARP POINT

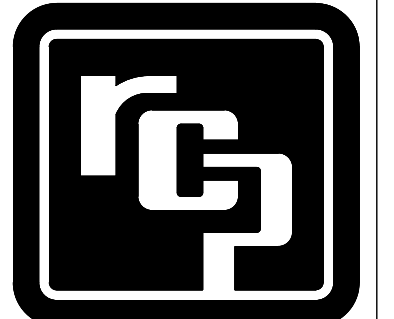
THE ACTUAL ROOF PITCH MAY VARY FROM THESE GENERAL DETAILS.

METAL ROOFING NOTES:
CLEAR PROTECTIVE FILM MUST BE REMOVED FROM ALL METAL PRIOR TO INSTALLATION.
METAL ROOFING SHOULD BE STORED INDOORS OR WHEN STORED OUTSIDE IT SHOULD BE STORED UP ON BLOCKS WITH FINISHED FACE UP AND SLOPED TO DRAIN.
DURING INSTALLATION, ALL METAL SHAVINGS MUST BE REMOVED IMMEDIATELY TO AVOID RUSTING OF PANELS.

LW-T-G1628-06
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PROJ. NO.:	23-225-B
DRAWN:	JLW 10/6/2023
CHKD:	JCS 10/24/2023
REV 1:	
REV 2:	
REV 3:	
REV 4:	
SHOP NO.:	14834
EEC JOB NO.:	14834
SHEET NO.:	

