



PROJ. NO.:	18-104	
DRAWN:	RAR	5-9-18
CHKD:		
REV 1:	DPS	5-10-18
REV 2:		
REV 3:		
REV 4:		
SHOP DWG NO.:		
EEC JOB NO.:	12602	
SHEET NO.:	1 OF 3	

IT IS A VIOLATION OF SECTION 7209 OF ARTICLE 145 OF THE STATE EDUCATIONAL LAW FOR ANY PERSON TO ALTER ANY ITEM IN ANY WAY, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER.



**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 (COL'S ONLY)  
 HARDWARE ----- PER DETAILS & LIST

**SOLID TIMBER SPECIFICATIONS**  
 2 x 4 Nailer ----- #1 SYP, S4S, KD, SEAL & STAIN; color = \_\_\_\_\_  
 2 x 6 Fascia ----- #1 SYP, S4S, KD, PENTA TYPE C 0.3 pcf, SEAL & STAIN; color = \_\_\_\_\_  
 2 x 8 Roof Deck ----- #1 SYP, T&G, S/L, CM, EVIS, KD, SEAL & STAIN; color = \_\_\_\_\_  
 Deck furnished in specified lengths (S/L), not precision end trimmed (PET), field cutting required.

**ROOF UNDERLAYMENT SPECIFICATIONS:**  
 1 LAYER OF HYDRASHELL MAX WITH 4" HEAD LAP.  
 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/AITC A190.1-2007"  
 2. Members shall be marked (in an unseen location) with an AITC or APA/IEWS Quality Mark and, in addition, an AITC or APA/IEWS Certificate of Conformance shall be provided to indicate conformance with "ANSI/AITC A190.1-2007".  
 3. All holes in wood to be 13/16"Ø unless noted otherwise.  
 4. All counterbores to be 2 1/4"Ø unless noted otherwise.  
 5. ▲ denotes edges to be chamfered for welds.

**STEEL & HARDWARE SHOP NOTES:**  
 1. All steel plate to be ASTM A572 Grade 50.  
 2. Steel tubes to be ASTM A500 Grade B, Fy=46 ksi.  
 3. All welding is to be done in accordance with latest AWS standards. If welds are not specified, all welds are to develop full strength of all component parts.  
 4. All bolts to be ASTM A307.  
 5. All nuts to be ASTM A563A.  
 6. All holes in steel to be 13/16"Ø unless noted otherwise.  
 7. All fabricated steel to be powder coated; color selected by owner.  
 8. 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.

**CONCRETE NOTES:**  
 4. 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.  
 5. Prepare slab with min. 2" compacted sand, gravel, or crushed rock.  
 6. Concrete slab to be 4" thick. Reinforce slab with 6x6-w/1.4wv1.4 welded wire fabric at mid-depth. Lap splices 8". All: Fiber mesh admixture (min. 1.5#/c.y., fibrillated polypropylene).  
 7. Edge of slab to be thickened to min. 8" deep x 8" wide reinforced with 2-#4 continuous rebars. Lap splices min. 24".  
 8. 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.  
 9. Install crack control joints (3/16" wide x 1" deep) at 8' to 12' o.c.  
 10. 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.  
 11. Concrete slabs in enclosed areas are to have positive drainage to floor drains and have a troweled finish.  
 12. Concrete slab, foundation, re-bar, wire mesh, leveling nuts, grout & anchor bolts (if required) are N.I.C.  
 13. All concrete reinforcing steel to be grade 60, deformed bars.  
 14. F<sub>c</sub> of concrete to be 3000 psi @ 28 days for foundation. F<sub>c</sub> of concrete to be 3500 psi @ 28 days for slab, air-entrained.  
 15. All concrete work to be in accordance w/ latest ACI code.  
 16. Assumed allowable soil bearing pressures: 2000 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 foundations must be redesigned (N.I.C.).  
 17. 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.

**ERECTION NOTES:**  
 All wood 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.

Pre-drill wood for screws and nails if necessary to avoid splitting.

Bolts through slotted holes in steel are to be left finger tight only to allow for future movement. Other bolts 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:**  
 2015 IBC w/ 2017 NYS Code Supplement  
 Type of Construction: Type V-B  
 Occupancy Classification: Assembly A-3  
 Building Risk Category II  
 Mean Roof Height = 11'-6"  
 Building Volume = 43,700 ft<sup>3</sup>  
 No. of Occupants = 253 (15 ft<sup>2</sup> per person)

**ROOF DL:**  
 Metal Roofing & Felt 1.2 psf  
 2" Nom. T&G Deck 4.6  
 Misc. 1.2  
 Total = 7 psf + weight of framing

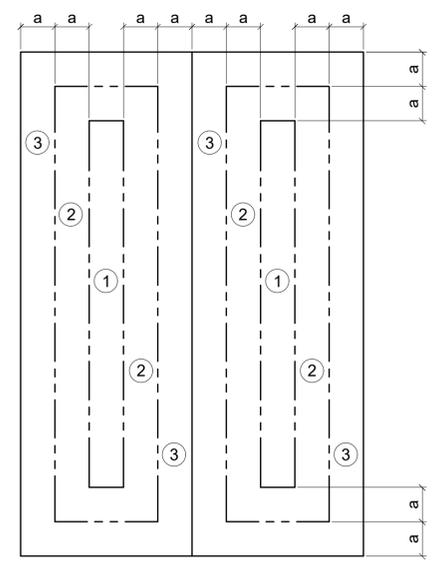
**FLOOR LL**  
 L = 100 psf

**ROOF LL**  
 L<sub>r</sub> = 20 psf

**ROOF SL**  
 P<sub>s</sub> = 30 psf (Ground Snow)  
 P<sub>f</sub> = 0.7 P<sub>s</sub> C<sub>e</sub> C<sub>i</sub> C<sub>s</sub> I<sub>s</sub>  
 C<sub>e</sub> = 1.0, C<sub>i</sub> = 1.2, I<sub>s</sub> = 1.0  
 P<sub>f</sub> = 25 psf  
 P<sub>s</sub> = P<sub>f</sub> C<sub>e</sub>  
 3:12 pitch: C<sub>s</sub> = 1.0, P<sub>s</sub> = 25 psf

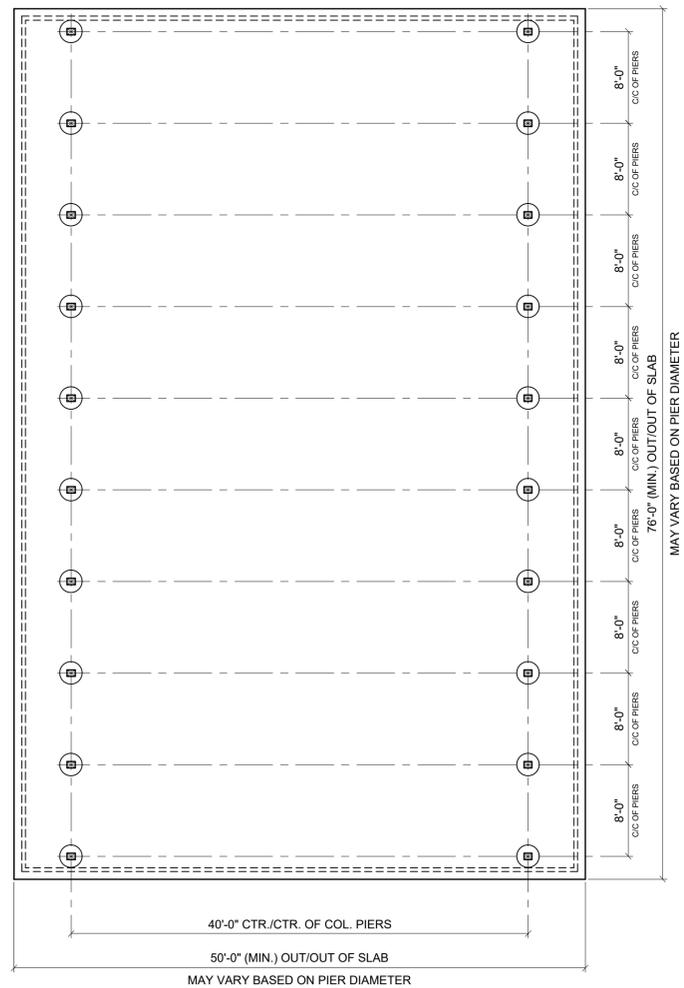
**WIND LOAD**  
 V<sub>ult</sub> = 115 mph, V<sub>red</sub> = 89 mph  
 Exposure 'C', Open Building w/ GC<sub>w</sub> = 0  
 Component & Cladding Ultimate Wind Pressures: See Sheet #1

**SEISMIC**  
 I<sub>e</sub> = 1.0  
 S<sub>S</sub> = 0.243, S<sub>1</sub> = 0.070  
 Site Class D (assumed)  
 S<sub>DS</sub> = 0.259, S<sub>1</sub> = 0.112  
 Seismic Design Category B  
 Equivalent Lateral Force Procedure  
 Cantilevered Column Systems - Timber frames  
 R = 1.5, C<sub>2</sub> = 0.173  
 V = 6,800#

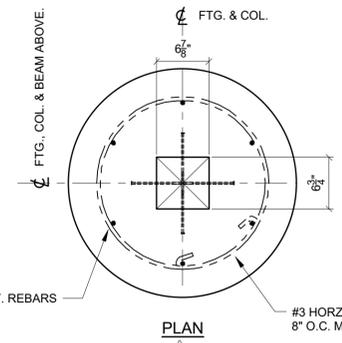


**ROOF PLAN**  
 a = 5'-0"  
 ULTIMATE PRESSURES FOR COMPONENTS & CLADDING

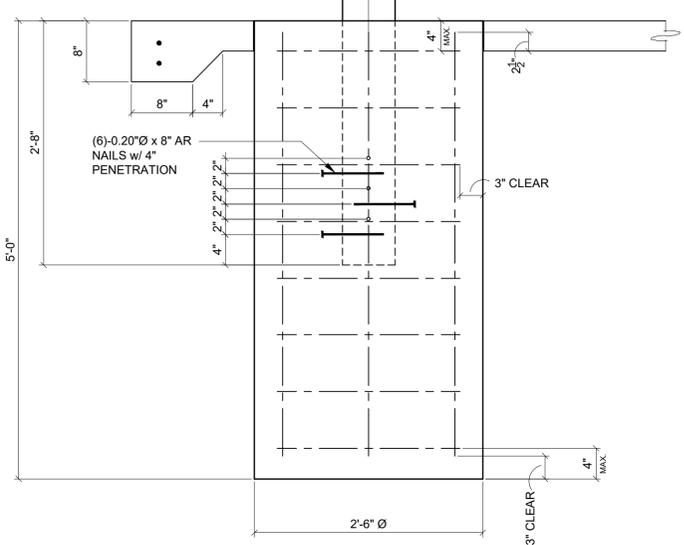
ZONE	PRESSURE	SUCTION
1	23 PSF	23 PSF
2	36 PSF	36 PSF
3	46 PSF	50 PSF



**FOUNDATION PLAN**  
 NO SCALE



**PLAN**



**COLUMN FOUNDATION DETAIL**

**COLUMN BASE REACTIONS:**

↑	$V_{DL+3/4(SL+0.6'WL)} = 7,300\#$
↓	$V_{0.6'DL+0.6'WL UPLIFT} = -1,100\#$
→	$H_{DL+3/4(SL+0.6'WL)} = 1,000\#$
↻	$M_{0.6'T. DL+3/4(SL+0.6'WL)} = 8,300\#-ft$

**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 ONE TON. 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.

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

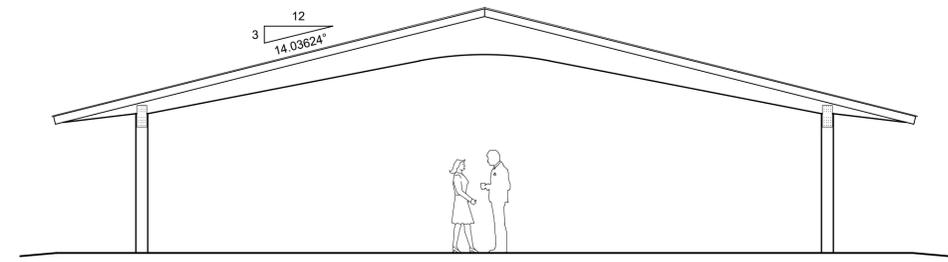
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**LW-G5076-03**  
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**MOHEGAN LAKE, NY**

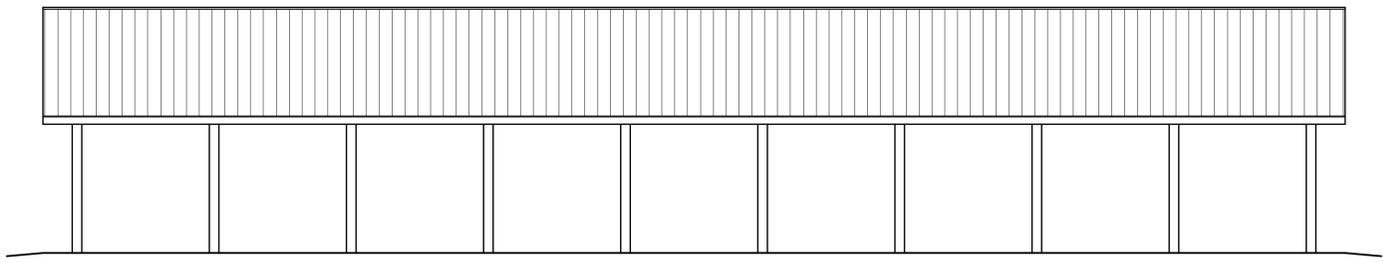
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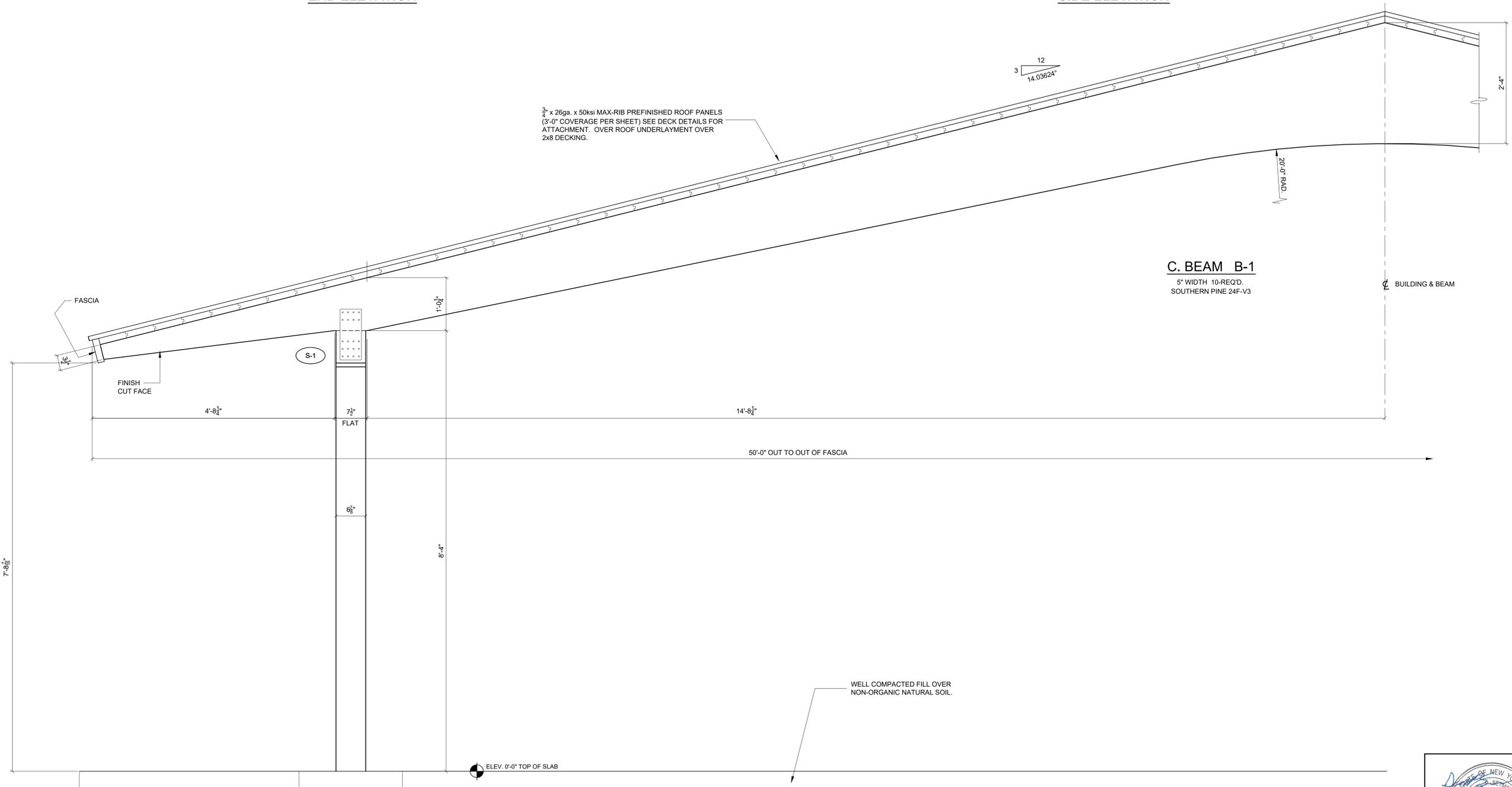
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**END ELEVATION**



**SIDE ELEVATION**



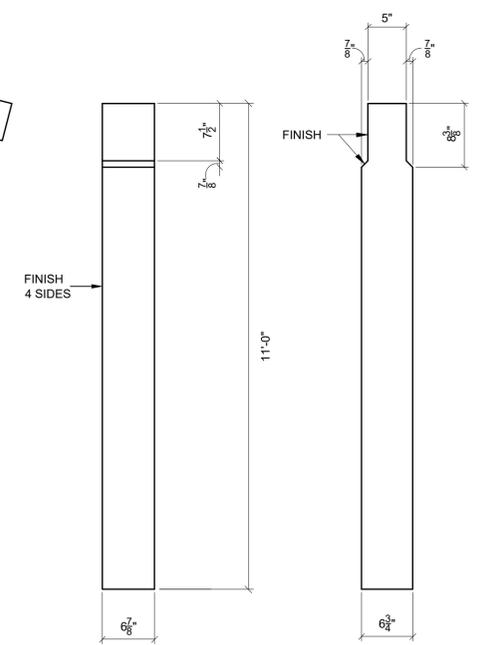
**SECTION AT BEAM & COLUMN**  
 NO SCALE:

SEE COLUMN FOOTING DETAIL FOR ADDITIONAL INFORMATION.

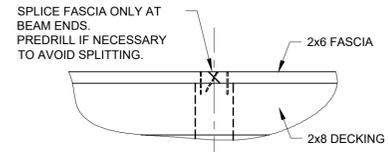




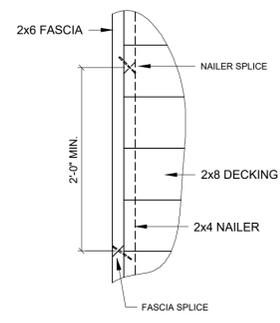
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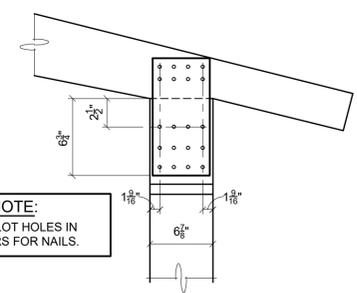
**COL. C-1 6 3/4" x 6-7/8" (TREATED)**  
**20-REQ'D. - (COMB 24F-V5)**



**DETAIL A**



**DETAIL B**



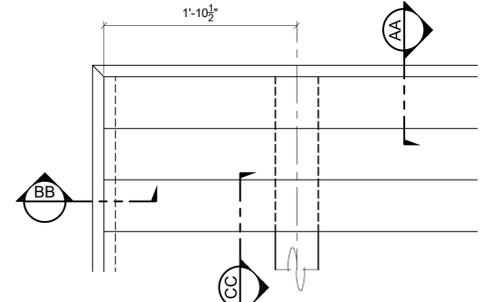
**CONN S-1 20-req'd.**  
 2 - MK-1 PLATE (SP00005x11A00.2500)  
 40 - 4 GA. x 2 1/2" ANNULAR RING NAIL

**FASCIA LAY-UP**

AT EAVE 12/16/16/8/16/12"  
 AT RAKE 12/14"

**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 10'/16'/16'/8'/16' AND 18'/16'/16'/16'/10'



**DECK PLAN AT CORNERS**

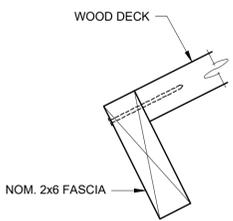
**FASCIA NOTES:**

1. ALL FASCIA CORNERS AND SPLICES ARE TO BE MITERED.
2. SEE DETAILS A & B FOR SPLICE DETAILS.
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

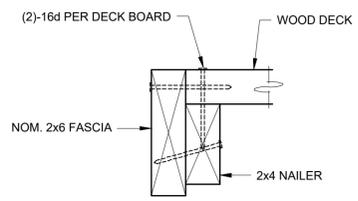
**2 x 4 NAILER**

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

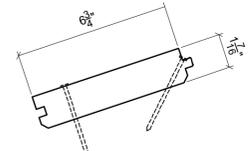
**SECTION AA**



**SECTION BB**



**SECTION CC**

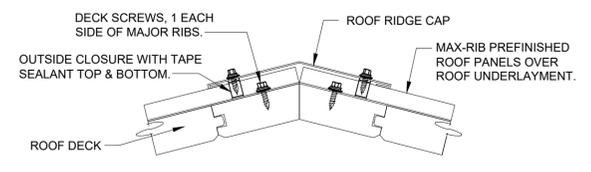


**9" RIDGE CAP**

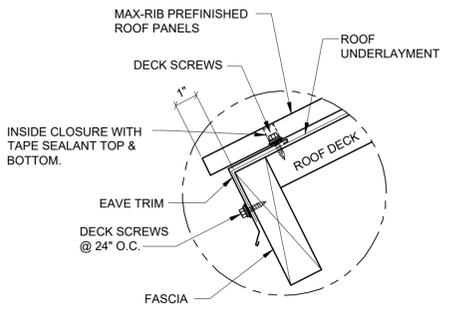
100 LN. FT. REQUIRED

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

THE ACTUAL ROOF PITCH MAY VARY FROM THESE GENERAL DETAILS.



**DECK DETAIL @ RIDGE**



**EAVE DETAIL**

**SELF-DRILLING SCREW SPECIFICATIONS:**

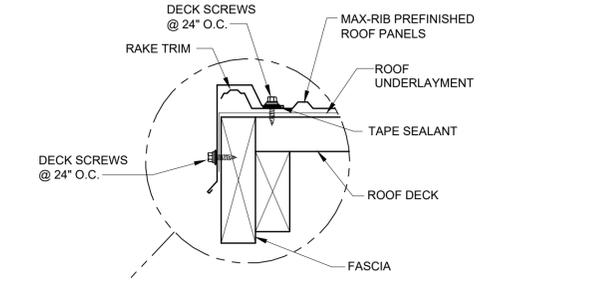
DECK SCREW = 9-15x1 WOODGRIP HWH SHARP POINT  
 LAP SCREW = 1/4-14x7/8 IMPAX LAP, 5/16" HEX HEAD

**METAL ROOFING NOTES:**

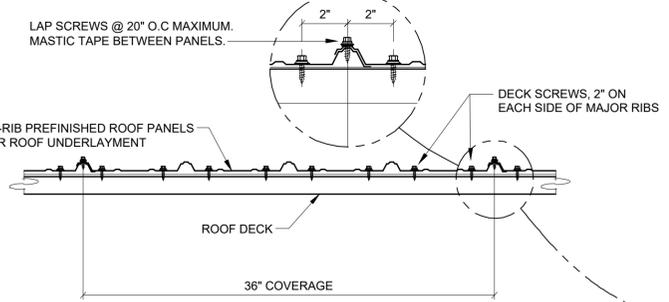
CLEAR PROTECTIVE FILM MUST BE REMOVED FROM ALL METAL PRIOR TO INSTALLATION.

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.

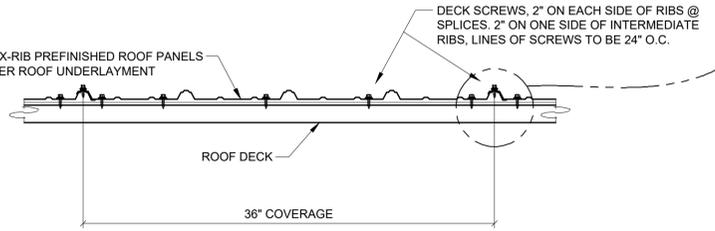


**SECTION THRU ROOFING PANEL @ RAKE**



**SECTION THRU ROOFING PANEL @ EAVE**

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



**SECTION THRU ROOFING PANEL @ INTERIOR**