



ROOF OVER OPEN STRUCTURE  
MASTER PLAN SHEET

PE#  
10/14/2020

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ROO OVER OPEN STRUCTURE

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HOST ATTACHED  
NO WALL OR SCREEN COMPONENTS

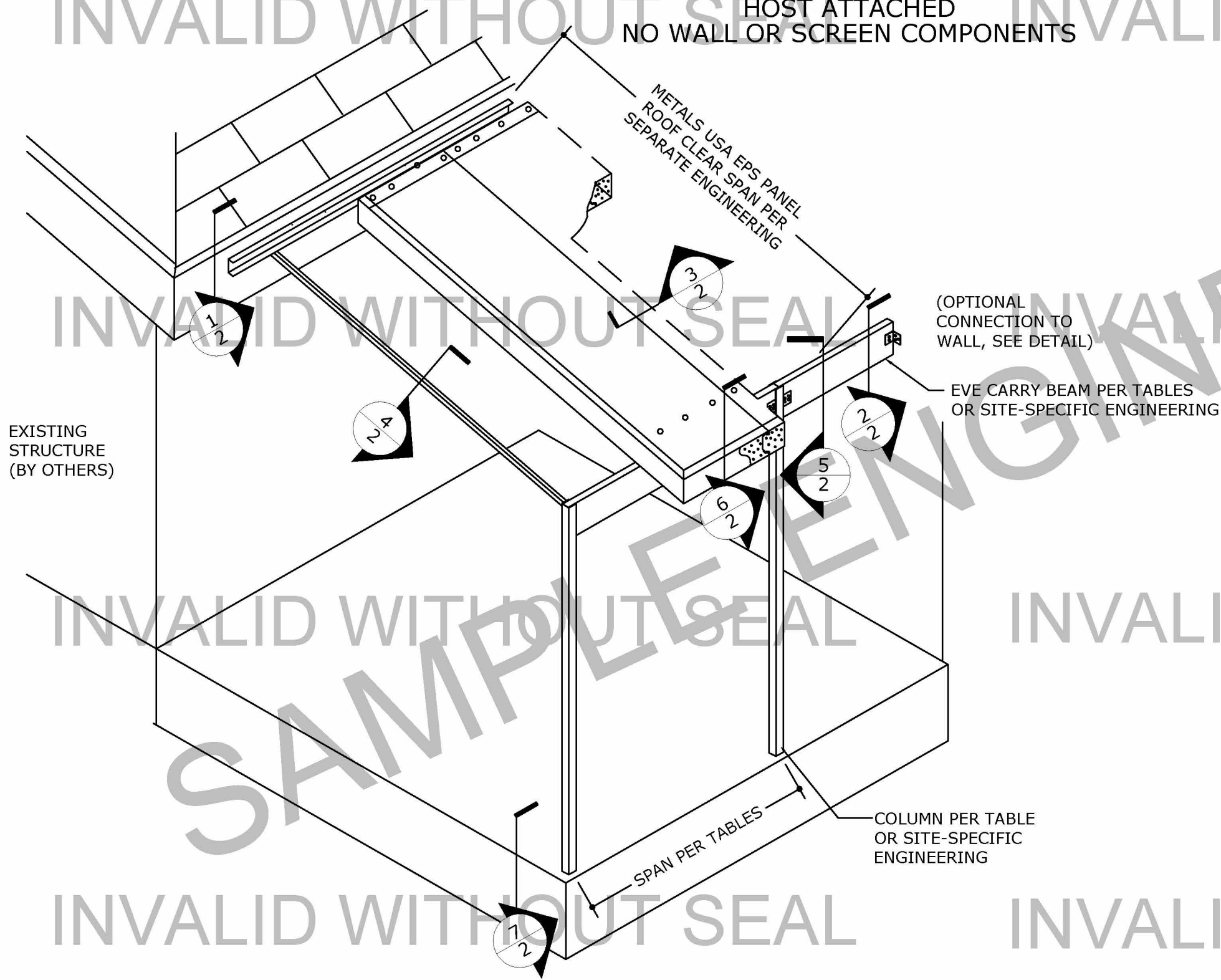
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GENERAL NOTES:

1. POSITIVE AND NEGATIVE DESIGN PRESSURES CALCULATED FOR USE WITH THIS SYSTEM SHALL BE DETERMINED BY OTHERS ON A JOB-SPECIFIC BASIS IN ACCORDANCE WITH ASCE 7-16 AND CHAPTER 16 OF THE 2017 FLORIDA BUILDING CODE (6TH EDITION), THE 2020 FLORIDA BUILDING CODE (7TH EDITION) AND THE 2012/2015/2018 IBC/IRC, AS WELL AS CURRENT VERSIONS OF THE MN, NC, NJ, NY, OH, SC, & VA BUILDING CODES AS APPLICABLE. CODE ENFORCED COMPLIES WITH STATE OF SEAL AND IF MULTIPLE VERSIONS LISTED THEN MOST STRINGENT APPLIES.
2. DESIGN SHALL UTILIZE ASD DESIGN METHOD USING ASCE 7-16 OR ASCE 7-10 BASED ON THE APPLICABLE CODE USED.
3. \*THIS DOCUMENT DOES **NOT** CERTIFY PRODUCT FOR USE AS A HABITABLE STRUCTURE. AAMA 2100 SUNROOM CLASSIFICATION II, III, OR IV ONLY.
4. NO 33-1/3% INCREASE IN ALLOWABLE STRESS HAS BEEN USED IN THE DESIGN OF THIS SYSTEM. WIND LOAD DURATION FACTOR Cd=1.6 HAS BEEN USED FOR WOOD ANCHOR DESIGN.
5. THE DESIGN PROFESSIONAL FOR THE PROJECT SUPERSTRUCTURE WITH WHICH THIS DESIGN IS USED SHALL BE RESPONSIBLE FOR THE INTEGRITY OF ALL SUPPORTING SURFACES TO THIS DESIGN WHICH SHALL BE COORDINATED BY THE PERMITTING CONTRACTOR.
6. ALL FASTENERS TO BE #8 OR GREATER SAE GRADE 5 UNLESS NOTED OTHERWISE. FASTENERS SHALL BE CADMIUM-PLATED OR OTHERWISE CORROSION-RESISTANT MATERIAL AND SHALL COMPLY WITH "SPECIFICATIONS FOR ALUMINUM STRUCTURES" SECTION 5.2.1 BY THE ALUMINUM ASSOCIATION, INC., & ANY APPLICABLE FEDERAL, STATE, AND/OR LOCAL CODES.
7. ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURERS' RECOMMENDATIONS. MINIMUM EMBEDMENT SHALL BE AS NOTED HEREIN. MINIMUM EMBEDMENT AND EDGE DISTANCE EXCLUDES STUCCO, FOAM, BRICK, AND OTHER WALL FINISHES.
8. ALL CONCRETE ANCHORS SHALL BE INSTALLED TO NON-CRACKED CONCRETE ONLY. ALL TAPCONS MUST BE ITW /DEWALT CARBON STEEL TAPCONS OR EQUIVALENT W/ 1-3/4" EMBED, 3" MIN. EDGE DISTANCE, FASTENED TO MINIMUM 3KSI MIN., UN-CRACKED CONCRETE.
9. ALL CONNECTING WOOD MEMBERS SHALL BE G=0.55 MIN PRESSURE TREATED ONLY.
10. THE CONTRACTOR IS RESPONSIBLE TO INSULATE ALL MEMBERS FROM DISSIMILAR MATERIALS TO PREVENT ELECTROLYSIS.
11. ALL ALUMINUM SHALL BE 6063-T6 ALLOY AND TEMPER UNLESS NOTED OTHERWISE.
12. SITE SPECIFIC ENGINEERING REQUIRED FOR ANY DETAIL WHICH DEVIATES FROM THIS PLAN OR BEYOND THESE LIMITATIONS.
13. ENGINEER SEAL AFFIXED HERETO VALIDATES STRUCTURAL DESIGN AS SHOWN ONLY. USE OF THIS SPECIFICATION BY CONTRACTOR, et. al. INDEMNIFIES & SAVES HARMLESS THIS ENGINEER FOR ALL COST & DAMAGES INCLUDING LEGAL FEES & APPELLATE FEES RESULTING FROM MATERIAL FABRICATION, SYSTEM ERECTION, & CONSTRUCTION PRACTICES BEYOND THAT WHICH IS CALLED FOR BY LOCAL, STATE, & FEDERAL CODES & FROM DEVIATIONS OF THIS PLAN.
14. ELECTRICAL GROUND AND ALL RELATED WIRING AND CONSIDERATIONS TO BE DESIGNED BY OTHERS AS REQUIRED.
15. THE SYSTEM DETAILED HEREIN IS GENERIC AND DOES NOT PROVIDE INFORMATION FOR A SPECIFIC SITE. FOR SITE CONDITIONS DIFFERENT FROM THE CONDITIONS DETAILED HEREIN, A LICENSED PROFESSIONAL SHALL PREPARE SITE SPECIFIC DOCUMENTS FOR USE IN CONJUNCTION WITH THIS DOCUMENT.
16. EXCEPT AS EXPRESSLY PROVIDED HEREIN, NO ADDITIONAL CERTIFICATIONS OR AFFIRMATIONS ARE INTENDED.
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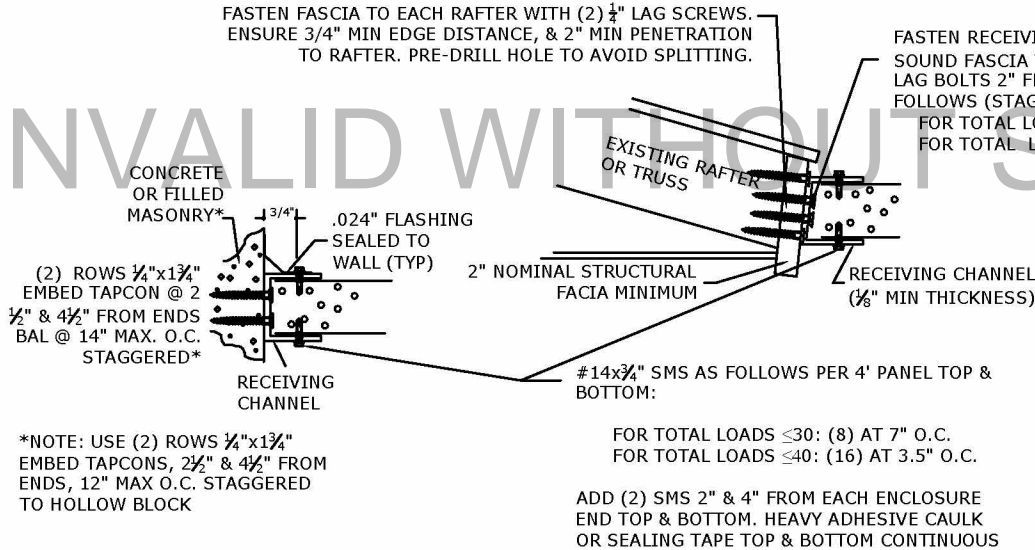


1 ROOF/COLUMN LAYOUT  
1 N.T.S. SINGLE SPAN ONLY

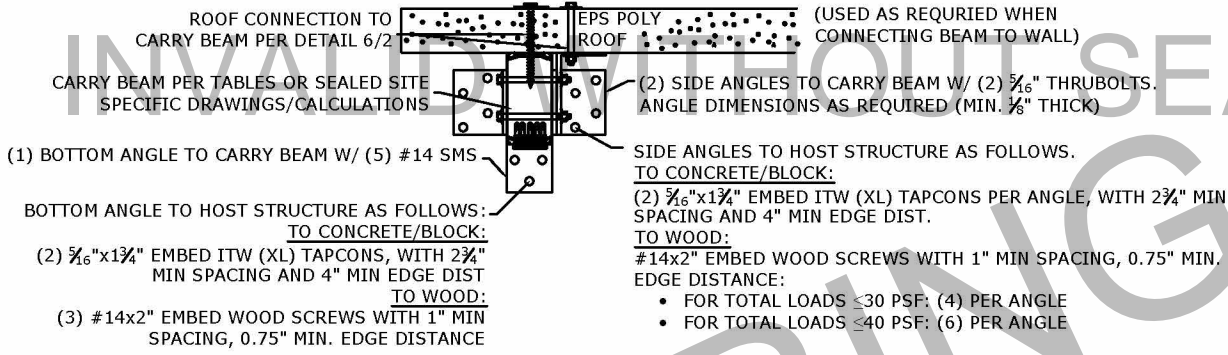
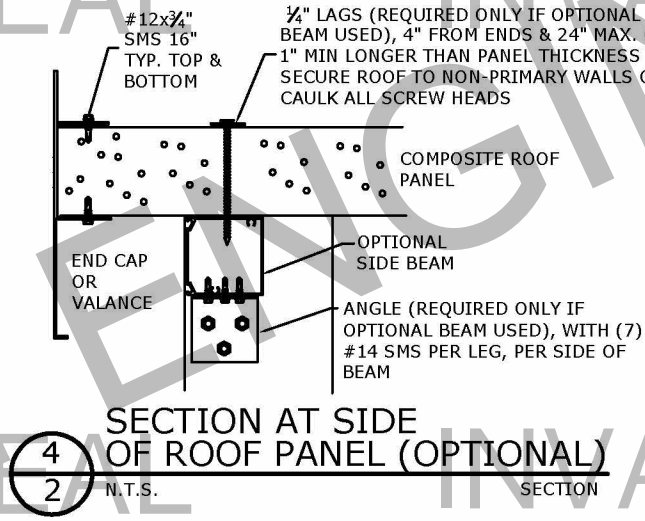
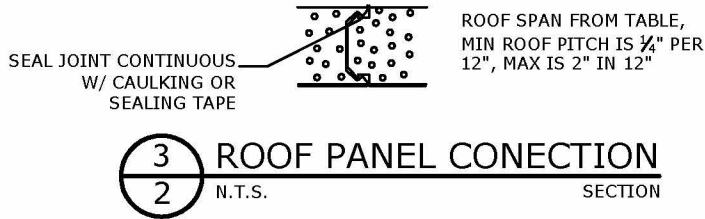


CONNECTIONS:

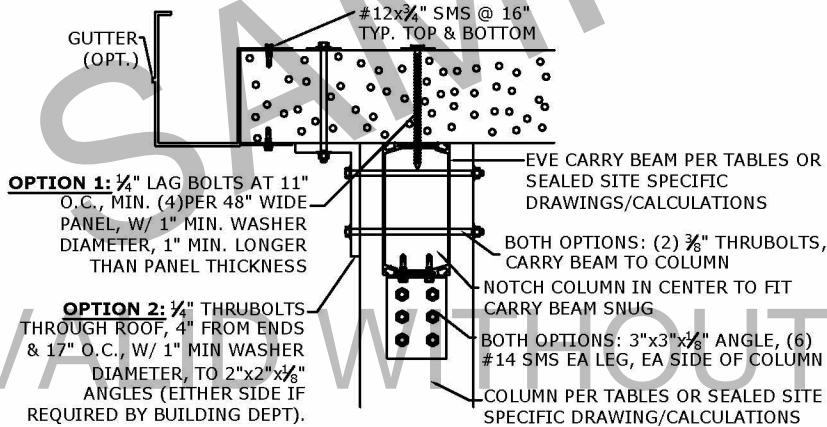
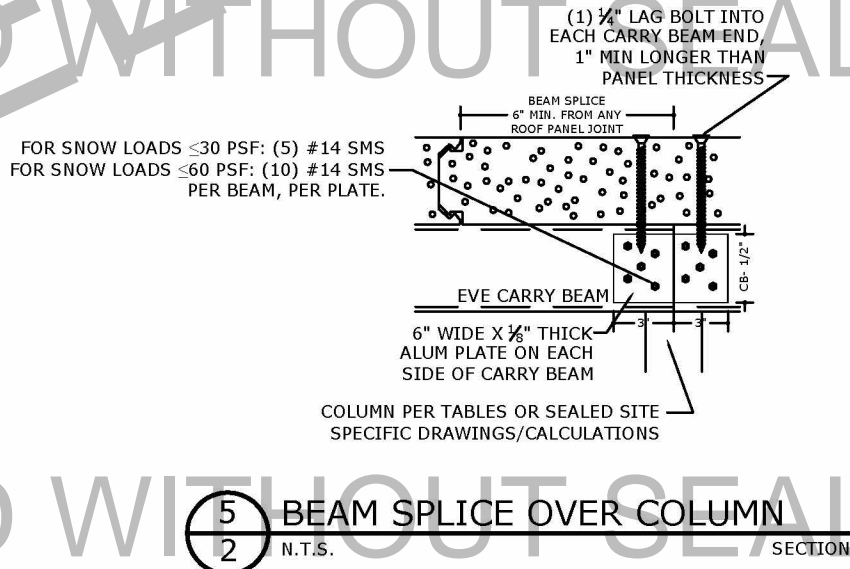
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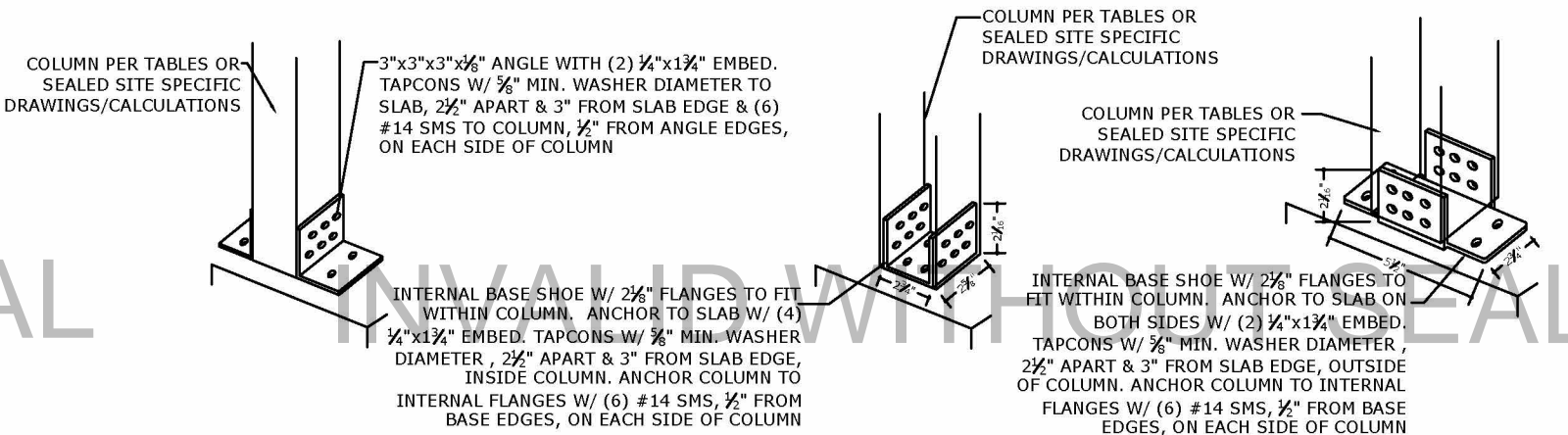
1 CONNECTION TO STRUCTURE  
2 N.T.S. SECTION



2 OPTIONAL EAVE BEAM CONNECTION AT WALL  
2 N.T.S. SECTION



6 SECTION AT BEARING COLUMN  
2 N.T.S. SECTION



7 COLUMN CONNECTION TO DECK OPTIONS  
2 N.T.S. SECTION

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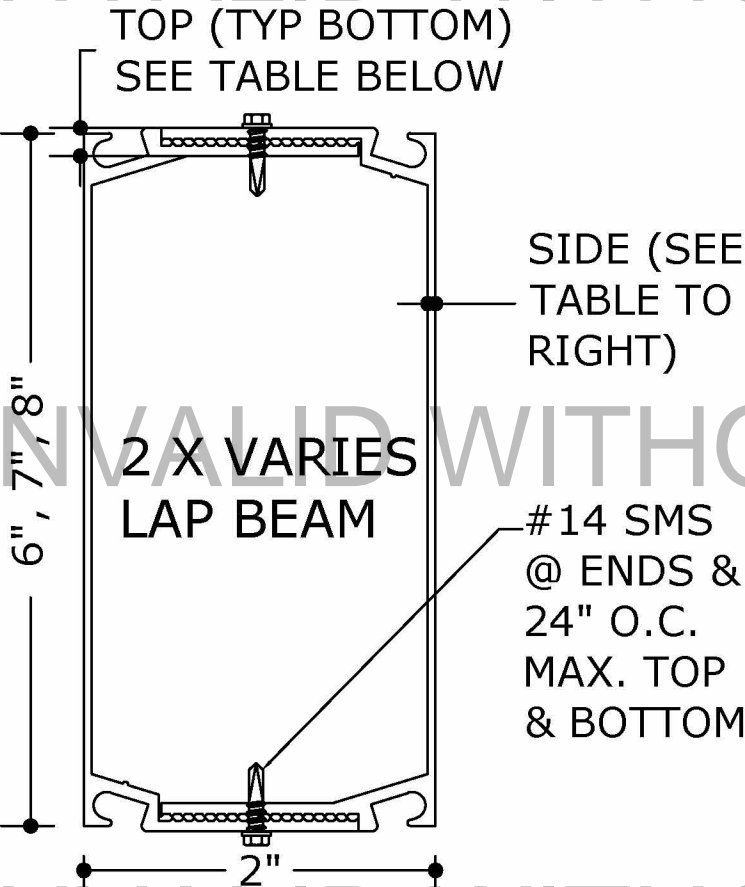
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EXTRUSIONS:

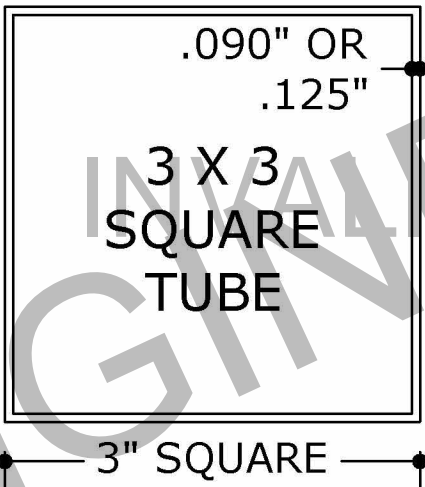
LAP BEAM



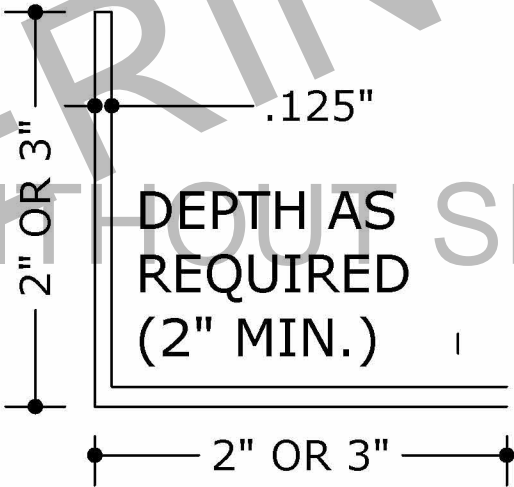
LAP BEAM WALL THICKNESSES

BEAM	TOP	SIDE
2X6	.060"	.050"
2X7	.060"	.055"
2X8	.112"	.072"

3 X 3 SQUARE TUBE



ANGLES



NOTE: VERIFY FIELD EXTRUSION DIMENSIONS WITH DESIGN DIMENSIONS PRIOR TO USE. ALTERNATE ENGINEERING WILL BE REQUIRED FOR DIMENSIONS LESS THAN THOSE AS SPECIFIED HEREIN. ALL EXTRUSIONS TO BE 6063-T6 ALUMINUM.

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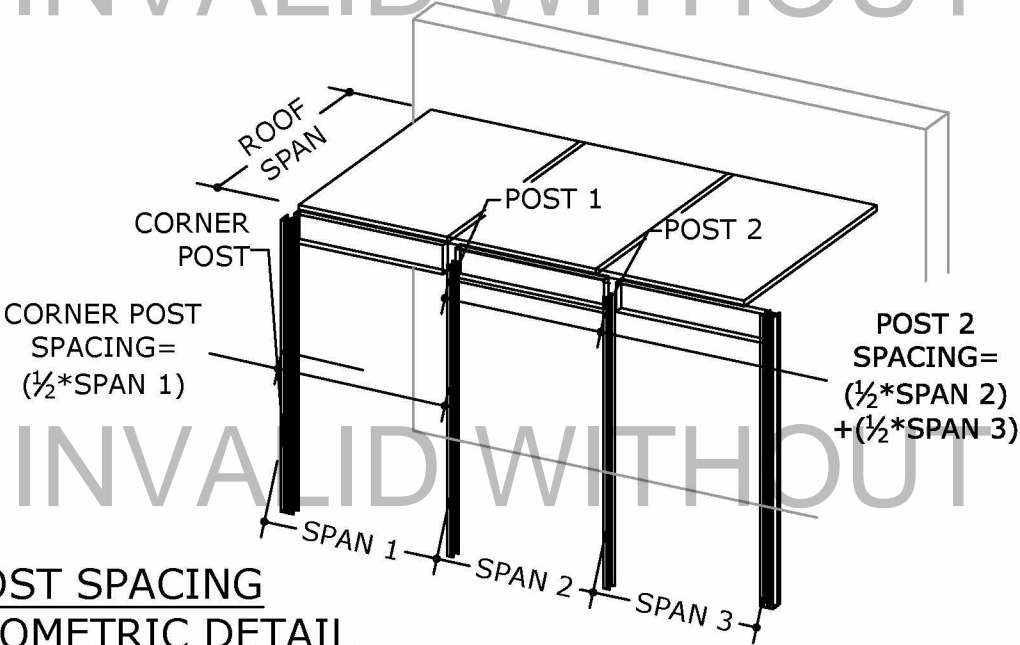
COLUMN ALLOWABLE HEIGHT TABLES:

COLUMN TYPE	MAX ROOF SPAN S (FT)	LIVE LOAD GRAVITY (PSF)	AVERAGE COLUMN SPACING W(FT)					
			6	8	10	12	14	15
G 3x3x.093 BOX	10	10	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"
			10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"
			10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"
			10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"
		20	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"
			10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"
			10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"
			10'-0"	10'-0"	10'-0"	10'-0"	9'-8"	9'-3"
		30	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"
			10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"
			10'-0"	10'-0"	10'-0"	10'-0"	9'-6"	8'-11"
			10'-0"	10'-0"	10'-0"	9'-9"	8'-6"	8'-0"
	20	40	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"
			10'-0"	10'-0"	10'-0"	10'-0"	9'-5"	8'-8"
			10'-0"	10'-0"	10'-0"	9'-8"	8'-2"	7'-6"
			10'-0"	10'-0"	10'-0"	8'-8"	7'-4"	6'-9"
		10	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"
			10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"
			10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"
			10'-0"	10'-0"	10'-0"	10'-0"	9'-11"	9'-5"
		20	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"
			10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	9'-3"
			10'-0"	10'-0"	10'-0"	10'-0"	8'-7"	8'-0"
			10'-0"	10'-0"	10'-0"	9'-0"	7'-8"	7'-2"
		30	10'-0"	10'-0"	10'-0"	10'-0"	8'-8"	7'-8"
			10'-0"	10'-0"	10'-0"	9'-0"	7'-1"	6'-3"
			10'-0"	10'-0"	9'-9"	7'-9"	6'-2"	5'-5"
			10'-0"	10'-0"	8'-9"	7'-0"	5'-6"	4'-10"
		40	10'-0"	10'-0"	10'-0"	7'-9"	5'-2"	4'-1"
			10'-0"	10'-0"	8'-10"	6'-4"	4'-3"	-
			10'-0"	10'-0"	7'-8"	5'-6"	-	-
			10'-0"	9'-4"	6'-10"	5'-0"	-	-

COLUMN TYPE	MAX ROOF SPAN S (FT)	LIVE LOAD GRAVITY (PSF)	AVERAGE COLUMN SPACING W(FT)					
			6	8	10	12	14	15
G 3x3x.125 BOX	10	10	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"
			10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"
			10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"
			10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"
		20	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"
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			10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"
		30	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"
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			10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"
	20	40	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"
			10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"
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		10	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"
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			10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"
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		20	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"
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			10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"
		30	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"
			10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	9'-6"
			10'-0"	10'-0"	10'-0"	9'-0"	8'-3"	8'-3"
			10'-0"	10'-0"	10'-0"	9'-7"	8'-0"	7'-4"
		40	10'-0"	10'-0"	10'-0"	10'-0"	9'-7"	8'-5"
			10'-0"	10'-0"	10'-0"	10'-0"	7'-10"	6'-11"
			10'-0"	10'-0"	10'-0"	8'-8"	6'-10"	6'-0"
			10'-0"	10'-0"	9'-10"	7'-9"	6'-1"	5'-4"

TABLE NOTES:

1. 2015 ALUMINUM DESIGN MANUAL, ALLOWABLE STRESS DESIGN METHOD USED IN ALL TABLES.
2. USE APPROPRIATE TABLE REQUIRED BY THE GOVERNING BUILDING CODE. VERIFY REQUIREMENTS WITH BUILDING DEPARTMENT.
3. DEFLECTION LIMIT = L/90.
4. COLUMN SPACING IS HALF THE DISTANCE TO THE LEFT ADDED TO HALF THE DISTANCE TO THE RIGHT OF THE BEAM (AVERAGE COLUMN SPACING).
5. VALUES BELOW ALLOWABLE CEILING HEIGHT INTENDED TO BE BUILT ON KNEEWALLS OR OTHER SUPPORTING STRUCTURES (CERTIFIED BY OTHERS).
6. VALUES AND USE FOR SINGLE SPAN PROJECTION FROM STRUCTURE ONLY.



POST SPACING ISOMETRIC DETAIL

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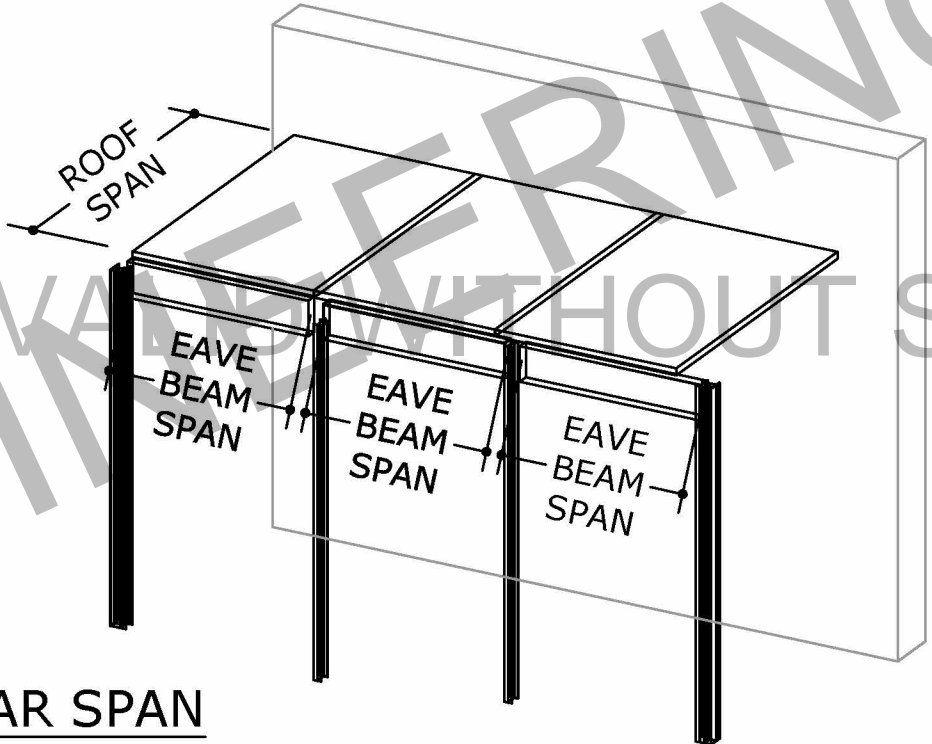
EAVE BEAM SPAN TABLES:

BEAM TYPE	ROOF LOAD (PSF)	MAX BEAM SPAN				
		8	10	12	14	16
AAF 2x6 LAP	20	11'-1"	10'-1"	9'-4"	8'-9"	8'-3"
		11'-1"	10'-1"	9'-4"	8'-9"	8'-3"
	30	9'-1"	8'-3"	7'-8"	7'-2"	6'-9"
		9'-1"	8'-3"	7'-8"	7'-2"	6'-9"
	40	7'-10"	7'-2"	6'-7"	6'-2"	5'-10"
		7'-10"	7'-2"	6'-7"	6'-2"	5'-10"
	50	7'-0"	6'-5"	6'-0"	5'-6"	5'-3"
		7'-0"	6'-5"	6'-0"	5'-6"	5'-3"

BEAM TYPE	ROOF LOAD (PSF)	MAX BEAM SPAN				
		8	10	12	14	16
AAF 2x7 LAP	20	12'-1"	11'-1"	10'-3"	9'-7"	9'-0"
		12'-1"	11'-1"	10'-3"	9'-7"	9'-0"
	30	9'-11"	9'-0"	8'-4"	7'-10"	7'-5"
		9'-11"	9'-0"	8'-4"	7'-10"	7'-5"
	40	8'-7"	7'-10"	7'-3"	6'-9"	6'-5"
		8'-7"	7'-10"	7'-3"	6'-9"	6'-5"
	50	7'-8"	7'-0"	6'-6"	6'-1"	5'-9"
		7'-8"	7'-0"	6'-6"	6'-1"	5'-9"

BEAM TYPE	ROOF LOAD (PSF)	MAX BEAM SPAN				
		8	10	12	14	16
AAF 2x6 LAP	20	15'-0"	15'-0"	15'-0"	15'-0"	14'-1"
		15'-0"	15'-0"	15'-0"	15'-0"	14'-1"
	30	15'-0"	14'-1"	13'-0"	12'-2"	11'-6"
		15'-0"	14'-1"	13'-0"	12'-2"	11'-6"
	40	13'-4"	12'-2"	11'-3"	10'-7"	10'-0"
		13'-4"	12'-2"	11'-3"	10'-7"	10'-0"
	50	12'-0"	10'-11"	10'-1"	9'-5"	8'-11"
		12'-0"	10'-11"	10'-1"	9'-5"	8'-11"

EAVE BEAM CLEAR SPAN  
ISOMETRIC DETAIL



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5