

Amerimax Building Products Patio Cover, Carport and Commercial Structure Engineerin

PAGES	DRAWING	SECTION DESCRIPTION
2 PAGES	GN01-2006 GN02-2006	GENERAL NOTES
4 PAGES	SC01-2006 SC02-2006 SC03-2006 SC04-2006	SOLID PANEL STRUCTURAL CONFIGURATIONS SOLID PANEL DETAIL CALLOUTS ALUMAWOOD STRUCTURAL CONFIGURATIONS ALUMAWOOD DETAIL CALLOUTS
1 PAGE	1	LATTICE 1.0 RAFTER SPANS FOR COMMERCIAL AND PATIO STRUCTURES
4 PAGES	2 - 5	LATTICE 2.0 POST SPACINGS FOR LATTICE PATIO AND COMMERCIAL STRUCTURES IN 90 MPH WIND AREAS
4 PAGES	6 - 9	LATTICE 3.0 POST SPACINGS FOR LATTICE PATIO AND COMMERCIAL STRUCTURES IN HIGH WIND AREAS
3 PAGES	LT01-2006 LT02-2006 LT03-2006	COMPONENT PARTS AND CONNECTION DETAILS FOR LATTICE STRUCTURES
1 PAGE	1	SOLID COVER 4.0 PANEL SPANS FOR COMMERCIAL AND PATIO STRUCTURES
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4 PAGES	NP01-2006 NP02-2006 NP03-2006 NP04-2006	COMPONENT PARTS AND CONNECTION DETAILS FOR NEWPORTS
9 PAGES	CD01-2006 CD02-2006 CD03-2006 CD04-2006 CD05-2006 CD06-2006 CD07-2006 CD08-2006 CD09-2006	COMPONENT PARTS AND CONNECTION DETAILS
5 PAGE	M1-2006 M2-2006 M3-2006 M4-2006 M5-2006	MISCELLANEOUS DETAILS MISCELLANEOUS DETAILS 7.0 POST AND FASTENER REQUIREMENTS FOR ALL STRUCTURES 7.0 FOOTING AND SLAB ATTACHMENT TABLES 7.0 REQUIREMENTS FOR SURFACE MOUNTED POSTS ON CONCRETE SLABS OR FOOTINGS



MAY 12 2009



4/27/2009

April 27, 2009



GENERAL NOTES:

1. DESIGNED IN ACCORDANCE WITH THE 2006 INTERNATIONAL BUILDING CODE. THIS REVIEW INCLUDES THE 2007 CALIFORNIA BUILDING CODE PROVISIONS THAT ARE LOCALLY ENFORCEABLE AND UNDER THE JURISDICTION OF CITY AND COUNTY BUILDING OFFICIALS. PROVISIONS RELATED SPECIFICALLY TO HOSPITALS AND PUBLIC SCHOOLS IN CALIFORNIA ARE NOT PART OF THIS REVIEW.
2. ALUMINUM DESIGN IN ACCORDANCE WITH THE 2000 EDITION OF ALUMINUM ASSOCIATION'S SPECIFICATIONS AND CHAPTER 20 OF THE INTERNATIONAL BUILDING CODE.
3. DESIGN LOADINGS:

GROUND SNOW LOAD	DESIGN LOAD
10 PSF	10 PSF LIVE OR GROUND SNOW
20 PSF	20 PSF LIVE OR GROUND SNOW
25 PSF	21 PSF
30 PSF	25.2 PSF
40 PSF	33.6 PSF
60 PSF	50.4 PSF
4. THIS ENTIRE ENGINEERING PACKAGE IS NOT REQUIRED FOR MOST BUILDING PERMITS. SUBMISSION FOR A BUILDING PERMIT MUST INCLUDE:
 - GENERAL NOTES (2 PAGES)
 - STRUCTURAL CONFIGURATIONS (1 OR 2 PAGES)
 - RAFTER SPAN TABLES (FOR LATTICE STRUCTURES), PANEL SPAN TABLES FOR SOLID COVER STRUCTURES) OR BOTH (FOR COMBINATION STRUCTURES)
 - HEADER POST SPACING, FOOTING SIZE AND POST TABLE FOR LIVE/SNOW AND WIND LOAD
 - ALL APPROPRIATE DETAILS
 - OTHER DOCUMENTATION REQUIRED BY LOCAL BUILDING AUTHORITY.

FOR 0.25/12 > SLOPE < 1/12

WIND SPEEDS IN THE 2006 IBC ARE "3 SECOND GUST WIND SPEED." ALL STRUCTURES DESCRIBED IN THIS REPORT ARE DESIGNED USING PRESSURES CALCULATED FORM "3 SECOND GUST WIND SPEEDS".

NOTE: EXPOSURE B: URBAN AND SUBURBAN AREAS, WOODED AREAS, OR OTHER TERRAIN WITH NUMEROUS CLOSELY SPACED OBSTRUCTIONS HAVING THE SIZE OF SINGLE-FAMILY DWELLINGS OR LARGER. EXPOSURE B SHALL BE ASSUMED UNLESS THE SITE MEET THE DEFINITION OF ANOTHER TYPE EXPOSURE.

EXPOSURE C: OPEN TERRAIN WITH SCATTERED OBSTRUCTIONS, INCLUDING SURFACE UNDULATIONS OR OTHER IRREGULARITIES, HAVING HEIGHTS GENERALLY LESS THAN 30 FEET (9144 MM) EXTENDING MORE THAN 1,500 FEET (457.2 M) FROM THE BUILDING SITE IN ANY QUADRANT THIS EXPOSURE SHALL ALSO APPLY TO ANY BUILDING LOCATED WITHIN EXPOSURE B TYPE TERRAIN WHERE THE BUILDING IS DIRECTLY ADJACENT TO OPEN AREAS OF EXPOSURE C TYPE TERRAIN IN ANY QUADRANT FOR A DISTANCE OF MORE THAN 600 FEET (182.9 M). THIS CATEGORY INCLUDES FLAT OPEN COUNTRY, GRASSLANDS AND SHORELINES IN HURRICANE-PRONE REGIONS.

SEISMIC LOADING
MAXIMUM Ss = 150% SHOWN IN 2006 IBC FIGURE 1613.5(1)
MAXIMUM Ss = 55% FOR 40 PSF AND 60 PSF GROUND SNOW LOADS. SEE GENERAL NOTE #20
S1 NOT APPLICABLE TO THESE STRUCTURES
SITE CLASS = D
BASIC SEISMIC FORCE RESISTNG SYSTEM
POSTS SURFACE MOUNTED = GENERIC SYSTEM >> R= 1.25
ANALYSIS PROCEDURE = EQUIVALENT LATERAL FORCE PROCEDURE



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BUILDING PRODUCTS, INC.

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SUITE 100
PLANO, TEXAS 75024

RAWN BY:	CMP		
SCALE:	NONE	DRAWING OR PART NAME	GENERAL NOTES
DATE:		DRAWING OR PART NUMBER	GN01-2006
		SHEET	1 OF 2

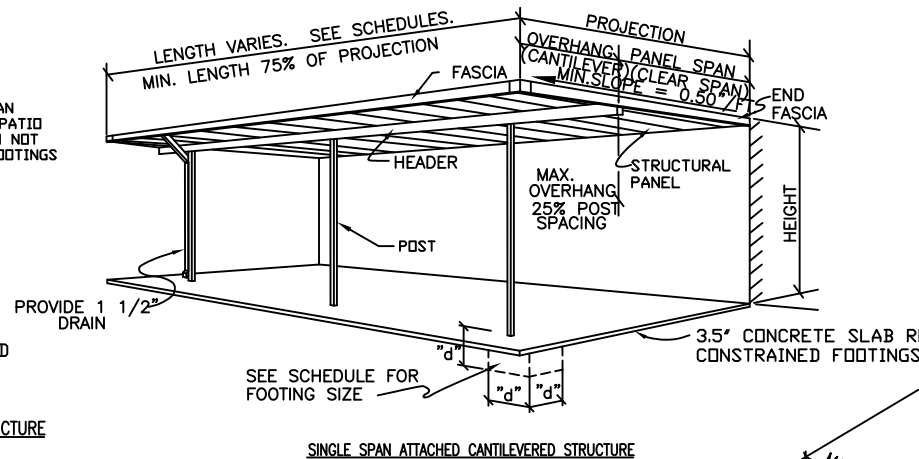
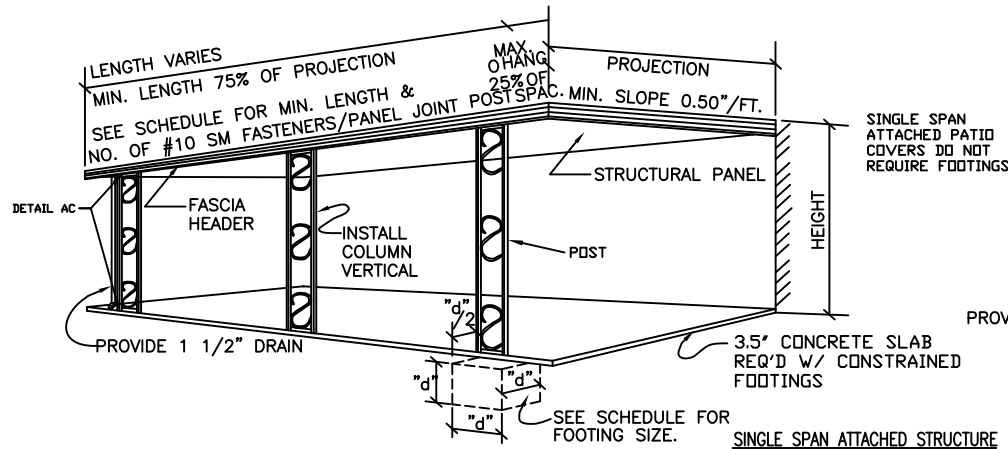
GENERAL NOTES:
(CONTINUED FROM SHEET NO. 1)

5. CONCRETE MIX: $F_c=2500, 3000$ OR 3500 PSI FOR 28 DAYS IN NEGLIGIBLE, MODERATE, AND SEVERE CONDITIONS AS SHOWN IN FIGURE 1904.2.2 OF THE 2006 IBC. PATIO STRUCTURES MAY BE ATTACHED TO CONCRETE SLAB WITHOUT FOOTINGS WHEN THE POST LOAD IS 750# OR LESS. CONCRETE SHALL BE A MINIMUM OF 3.5 INCHES THICK AND NO CRACKS WITHIN 2'-6" OF POSTS. POSTS SHALL BE SET BACK A MINIMUM OF 4 INCHES FROM EDGE OR EXPANSION JOINT OF A SLAB. POSTS WILL COMPLY WITH THE CORNER DISTANCES OF TABLES SLAB1 AND SLAB2 OF SHEET M5
6. FOOTINGS HAVE BEEN DESIGNED FOR CLASS 5 SOIL. ALLOWABLE FOUNDATION PRESSURE IS 1500 POUNDS PER SQUARE FOOT. LATERAL BEARING PRESSURE IS 100 PSF/FT AND IS DOUBLED PER 1804.3.1. THESE DESIGN VALUES DO NOT APPLY TO MUD, ORGANIC SILTS, ORGANIC CLAYS, PEAT OR UNPREPARED FILLS AND MAY REQUIRE FURTHER SOIL INVESTIGATION. UNITS IN SNOW/LIVE LOAD AREA OF 25 PSF OR LESS MAY BE BUILT ON 1000 PSF BEARING SOIL W/O ADDITIONAL ENGINEERING.
7. 20 PSF AND HIGHER LIVE LOAD STRUCTURES MAY BE USED FOR PARKING OF MOTOR VEHICLES. CARPORTS MUST HAVE AT LEAST TWO OPEN SIDES AND HAVE FLOOR SURFACES MADE OF APPROVED NONCOMBUSTIBLE MATERIAL OR ASPHALT.
8. FREESTANDING STRUCTURES SHALL NOT BE ENCLOSED IN ANY MANNER.
9. STEEL BOLTS SHALL BE ASTM A-307 AND HOT DIPPED GALVANIZED, MECHANICALLY GALVANIZED, ZINC ELECTROPLATED, ALUMINIZED OR 3000 SERIES STAINLESS STEEL
10. ALTERNATE ALUMINUM ALLOYS OF EQUAL OR HIGHER STRENGTHS MAY BE USED.
11. STEEL FASTENERS SHALL BE EITHER STAINLESS (3000 SERIES), GALVANIZED OR DOUBLE CADMIUM PLATED. CONCRETE ANCHOR BOLTS ARE 3/8" W/ 2" EMBED STAINLESS STEEL HILTI KWIK BOLT TZ (ICC ESR 1917) OR EQUIVALENT. ANCHORS ATTACHED TO CONCRETE SLAB WILL HAVE ALLOWABLE TENSILE OF 750 LBF AND SHEAR OF 500 LBF.
12. EMBEDDED POST SURFACES SHALL BE CLEAN AND FREE FROM OILY SURFACES.
13. HEADER SPLICES SHALL NOT BE LOCATED NEARER TO THE END OF THE STRUCTURE THAN THE FIRST INTERIOR POST. (EXCEPT FOR FULL STRENGTH SPLICES) FULL STRENGTH SPLICES (DETAILS O, U, AND X) MAY BE LOCATED ANYWHERE.
14. ALL SELF DRILLING AND SELF TAPPING SCREWS MUST COMPLY TO ICC ESR-5202, ESR-5623 OR EQUIVALENT.
15. ATTACHED STRUCTURES MAY NOT BE ENCLOSED IN ANY MANNER WITHOUT ADDITIONAL ENGINEERING ANALYSIS OR APPROVAL OF THE LOCAL BUILDING AUTHORITY.
16. ROOF PANELS ARE CLASS "B" FIRE RATED.
17. STRUCTURES MAY BE ATTACHED TO EAVE OVERHANGS PER SCHEDULE.

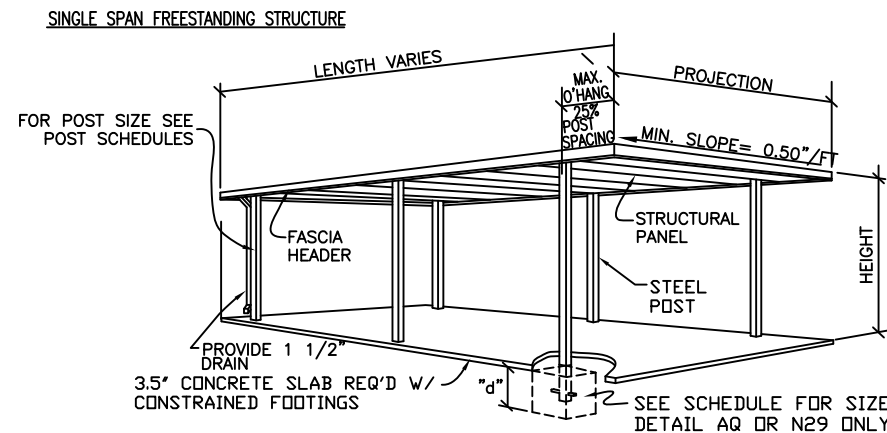
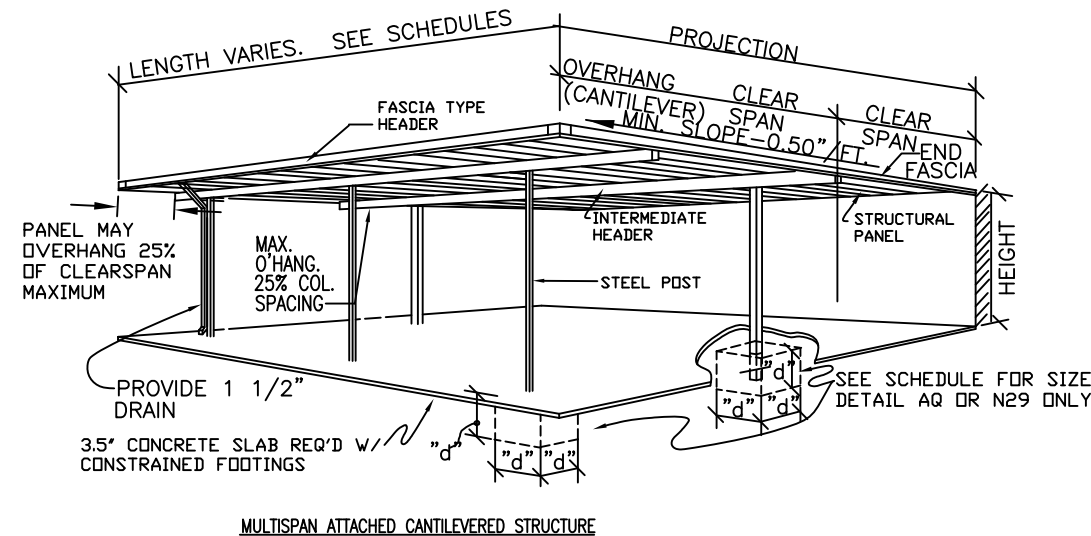
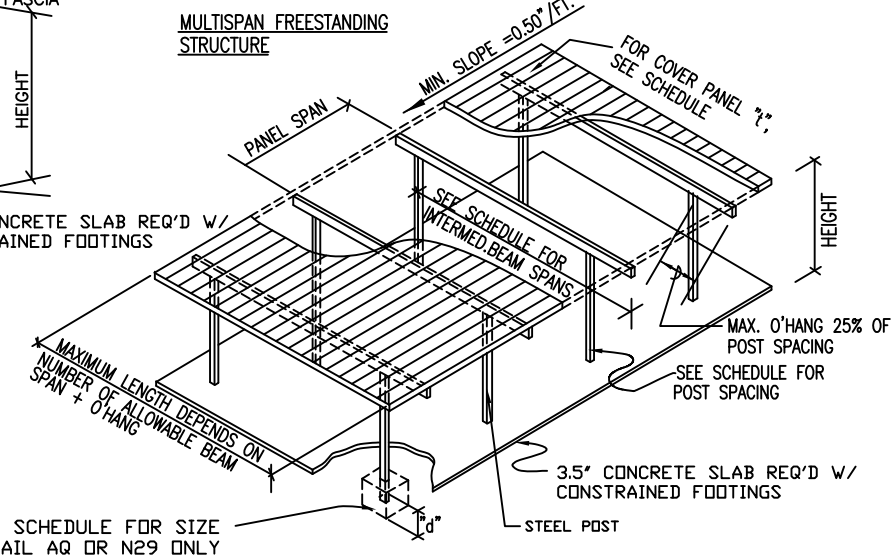
18. WHERE ALUMINUM ALLOY PARTS ARE IN CONTACT WITH DISSIMILAR METALS OTHER THAN STAINLESS, ALUMINIZED OR GALVANIZED STEEL, OR ABSORBENT BUILDING MATERIALS, LIKELY TO BE CONTINUOUSLY OR INTERMITTENTLY WET, THE FAYING SURFACES SHALL BE PAINTED OR OTHERWISE SEPARATED IN ACCORDANCE WITH THE ALUMINUM DESIGN MANUAL PART I-A SECTION 6.6.1
19. WHEN A SINGLE SPAN ATTACHED UNIT IS ATTACHED TO A WOODEN DECK, THE MAXIMUM DEAD LOAD + LIVE LOAD FROM THE PATIO COVER IS 750LBS AND THE POST SPACING SHALL NOT EXCEED THAT SPECIFIED FOR ATTACHING TO A CONCRETE SLAB. THE MAXIMUM CONNECTION UPLIFT LOAD IS 800 LBS FOR 90MPH EXP C WIND SPEED. CONNECTIONS ARE FOR MAXIMUM PATIO ROOF HEIGHTS OF 12FT. THE EXISTING DECK STRUCTURE MUST BE ADEQUATE TO SUSTAIN THESE ADDITIONAL LOADS. THE STRUCTURAL ADEQUACY OF THE DECK TO SAFELY SUSTAIN THESE ADDITIONAL LOADS WILL REQUIRE APPROVAL BY LOCAL BUILDING AUTHORITY OR ADDITIONAL ENGINEERING. SEE DETAIL L13, L14, N12, N13, AL OR AM. THE MAXIMUM HEIGHT ABOVE GRADE IS 12. CONSTRUCTION OUTSIDE OF THESE PARAMETERS MAY REQUIRE ADDITIONAL ENGINEERING.
- 20. ANY UNIT BUILT WITH A ROOF SNOW LOAD GREATER THAN 30 PSF IN A SEISMICALLY ACTIVE AREA MAY REQUIRE ADDITIONAL ENGINEERING AT THE DISCRETION OF THE LOCAL BUILDING AUTHORITY. UNITS ATTACHED TO ONE AND TWO FAMILY DWELLINGS W/ $S_s < 0.55$, SITE CLASS D DO NOT REQUIRE ADDITIONAL SESIMIC ANALYSIS PER 1613.1 EXCEPTION #1.**
21. DRIFTING SNOW IS ADDRESSED IN DETAIL BR. SLIDING SNOW IS BEYOND THE SCOPE OF THIS REPORT.
22. ALL MULTISPAN TABLES AND DETAILS ASSUME EQUAL SPANS WITHIN 20%. ALL SPECIFICATIONS MUST BE BASED ON LONGEST ACTUAL SPAN.
- GENERAL NOTES FOR LATTICE STRUCTURES:
(PERTAINS TO LATTICE STRUCTURES ON DRAWINGS SC02-2006 AND LT01-2006 THRU LT03-2006.)
1. SEE GENERAL NOTES, SHEET 1, SECTION 4 FOR LIVE AND SNOW LOADS.
2. OPEN LATTICE STRUCTURES SHALL NOT BE ENCLOSED.
3. SINGLE SPAN LATTICE STRUCTURES THAT USE DETAILS L13, L14 OR L25 MUST COMPLY WITH TABLE L1 AND L2 ON SHEET M5.



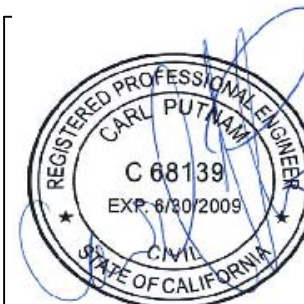
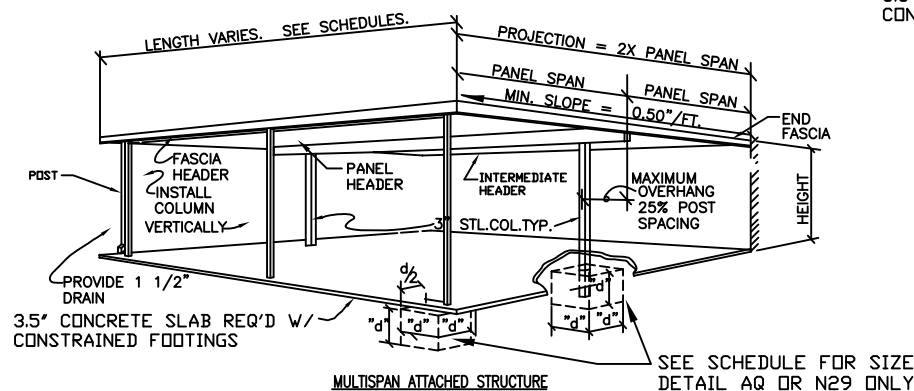
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SCALE: NONE	DRAWING OR PART NAME	GENERAL NOTES	
DATE:	DRAWING OR PART NUMBER	GN02-2006	SHEET 2 OF 2



NOTE: SEE SCHEDULE FOR POSTS. ALL POSTS TO BE INSTALLED VERTICALLY. MAY HAVE MORE THAN 2 POSTS (PER INTERMEDIATE BEAM).

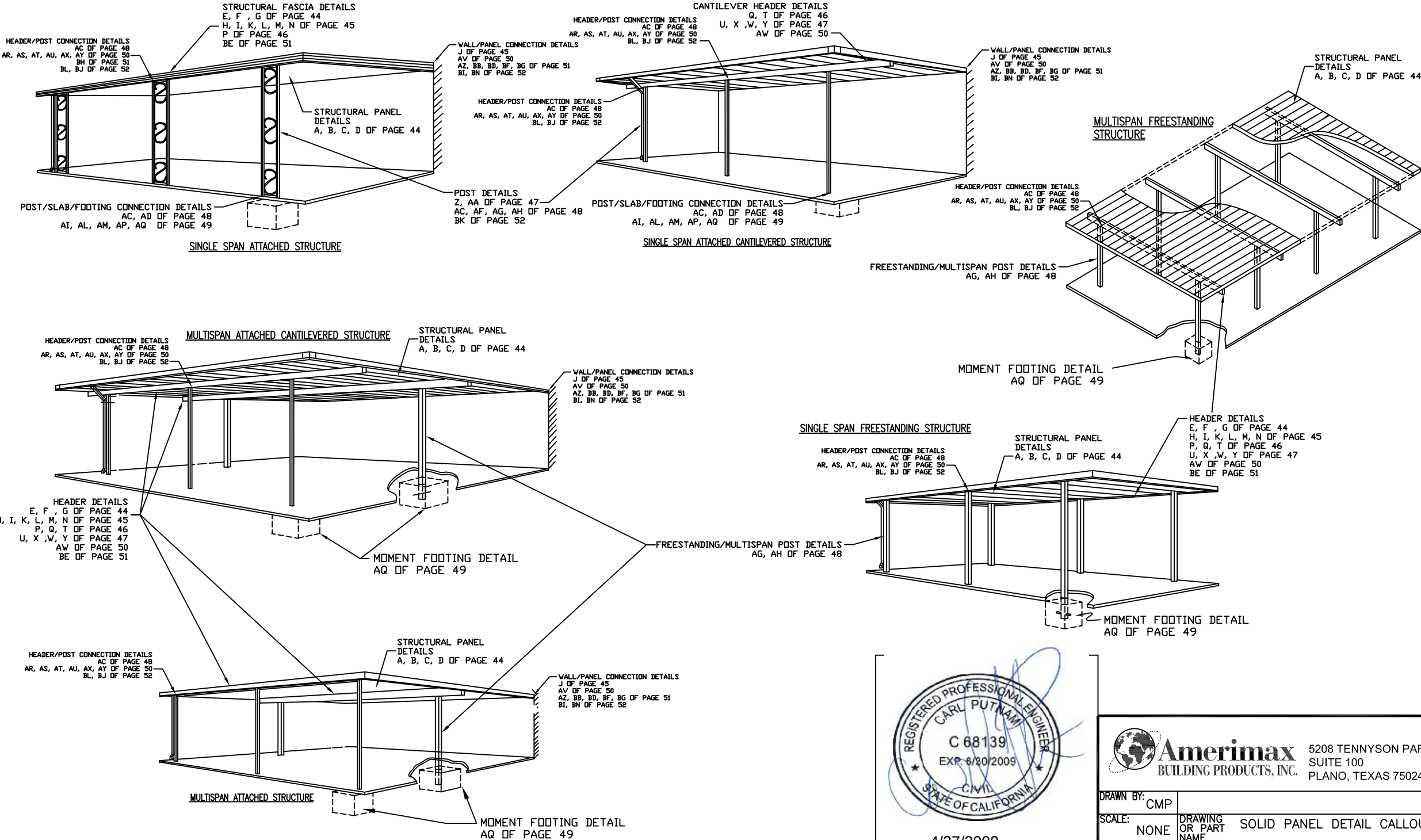


PATIO COVERS ARE LIMITED TO 12' HEIGHT. CARPORTS AND COMMERCIAL STRUCTURES ARE LIMITED TO 18' HEIGHT.



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DATE:		DRAWING OR PART NUMBER	SC01-2006
			SHEET 1 OF 4

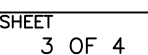


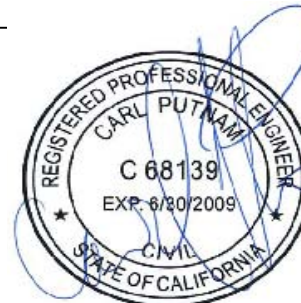
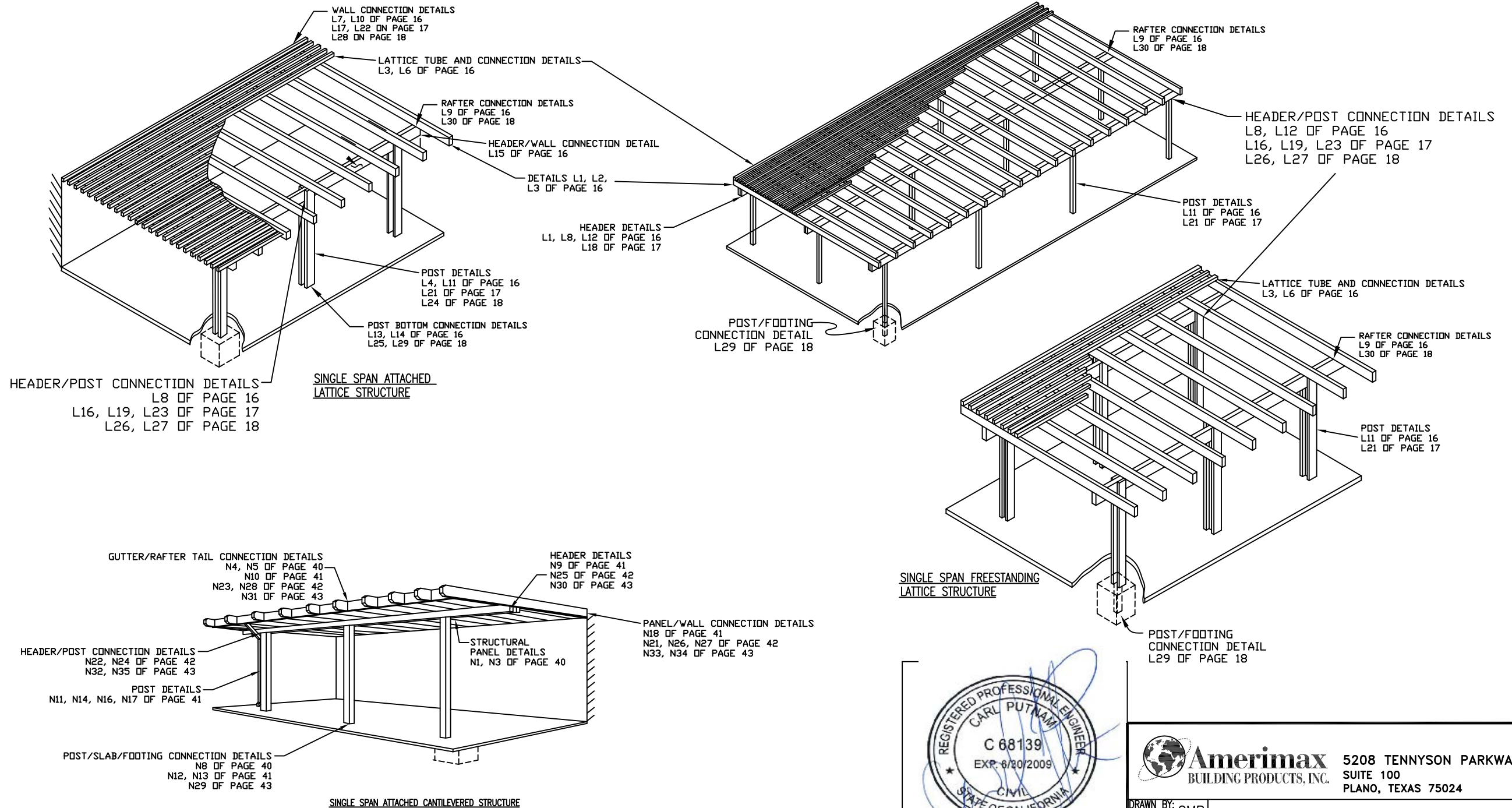
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SCALE:	NONE					
DATE:						





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DRAWN BY: CMP		
SCALE: NONE	DRAWING OR PART NAME	ALUMAWOOD DETAIL CALLOUTS
DATE:	DRAWING OR PART NUMBER	SC04-2006
		SHEET 4 OF 4

TABLE 2.1				0.042"x3"x8" Box Beam (Detail L1)								Double 0.042"x3"x8" Box Beam (Detail L12)								Double 0.032"x2"x6.625" Box Beam (Detail L12)								0.042"x3"x8" Box Beam (Detail L1)								Double 0.042"x3"x8" Box Beam (Detail L12)								Double 0.032"x2"x6.625" Box Beam (Detail L12)							
				Attached Structure				Freestanding or Multispan Units				Attached Structure				Freestanding or Multispan Units				Attached Structure				Freestanding or Multispan Units				Attached Structure				Freestanding or Multispan Units				Attached Structure				Freestanding or Multispan Units											
GROUND SNOW LOAD (PSF)	TRIB WIDTH (FT)	MAX POST SPACING ON SLAB (FT)	POST REQ'D FOR SLAB	MAX POST SPACING (FT)	MIN POST TYPE	FOOTER SIZE (in)	MAX POST LENGTH 8' 10' 12' CONSTRAINED FOOTER				MAX POST SPACING (FT)	MIN POST TYPE	FOOTER SIZE (in)	MAX POST LENGTH 8' 10' 12' CONSTRAINED FOOTER				MAX POST SPACING (FT)	MIN POST TYPE	FOOTER SIZE (in)	MAX POST LENGTH 8' 10' 12' CONSTRAINED FOOTER				GROUND SNOW LOAD (PSF)	TRIB WIDTH (FT)	MAX POST SPACING ON SLAB (FT)	POST REQ'D FOR SLAB	MAX POST SPACING (FT)	MIN POST TYPE	FOOTER SIZE (in)	MAX POST LENGTH 8' 10' 12' CONSTRAINED FOOTER				MAX POST SPACING (FT)	MIN POST TYPE	FOOTER SIZE (in)	MAX POST LENGTH 8' 10' 12' CONSTRAINED FOOTER				MAX POST SPACING (FT)	MIN POST TYPE	FOOTER SIZE (in)	MAX POST LENGTH 8' 10' 12' CONSTRAINED FOOTER					
90 MPH EXPOSURE B																																																			
10 LIVE	3	5	22'-8"	A	15'-0"	A	17	24	25	26	22'-2"	A	19	26	27	29	15'-8"	A	17	23	24	26	30	3.5	8'-0"	A	7'-10"	A	14	21	22	23	13'-6"	C	17	23	25	26	8'-6"	B	14	20	22	23							
	4	5	19'-5"	A	13'-6"	A	17	23	25	26	20'-7"	B	20	25	27	28	14'-2"	A	18	22	24	25	4	3.5	6'-10"	A	6'-11"	B	14	20	21	23	12'-1"	C	17	23	24	25	7'-6"	B	14	20	21	22							
	4.5	5	17'-0"	A	12'-3"	A	18	23	24	25	19'-3"	B	20	25	27	28	12'-11"	A	18	22	23	25	4.5	4	6'-0"	A	6'-2"	B	14	20	21	22	10'-11"	C	17	22	24	25	6'-9"	B	14	19	21	22							
	5	5.5	15'-1"	A	11'-2"	A	18	22	24	25	18'-2"	B	21	25	26	28	11'-11"	A	18	22	23	24	5	4.5	5'-4"	A	5'-6"	B	14	19	21	22	9'-11"	C	17	22	23	24	6'-2"	B	15	19	20	21							
	5.5	6	13'-7"	A	10'-4"	A	18	22	23	24	17'-3"	B	21	24	26	27	11'-0"	A	18	21	23	24	5.5	5	4'-10"	A	5'-1"	B	14	19	20	21	9'-2"	C	17	21	23	24	5'-7"	B	15	19	20	21							
	6	6.5	12'-4"	A	9'-7"	A	18	22	23	24	16'-2"	B	21	24	26	27	10'-3"	A	18	21	22	24	6	5.5	4'-4"	A	4'-8"	B	14	19	20	21	8'-6"	C	17	21	22	24	5'-2"	B	15	18	20	21							
	6.5	7	11'-4"	A	8'-11"	A	18	21	23	24	15'-2"	B	22	24	25	27	9'-8"	A	19	21	22	23	6.5	6	4'-0"	A	4'-3"	B	14	18	20	21	7'-10"	C	17	21	22	23	4'-9"	B	15	18	19	21							
	7	7.5	10'-5"	A	8'-5"	A	18	21	22	23	14'-4"	C	22	23	25	26	9'-1"	A	19	20	22	23	6.5	6.5	3'-8"	A	4'-0"	B	14	18	19	21	7'-4"	C	17	20	22	23	4'-6"	B	15	18	19	20							
	7.5	8	9'-8"	A	7'-11"	A	18	21	22	23	13'-7"	C	22	23	25	26	8'-7"	A	19	20	22	23	7	7	3'-5"	A	3'-8"	B	14	18	19	20	6'-11"	C	18	20	21	23	4'-2"	B	15	18	19	20							
	8	8.5	9'-1"	A	7'-5"	A	18	20	22	23	12'-11"	C	22	23	24	26	8'-1"	A	19	20	21	22	7.5	7.5	3'-2"	A	3'-6"	B	14	18	19	20	6'-6"	C	18	20	21	22	3'-11"	B	15	18	19	20							
	8.5	9	8'-6"	A	7'-1"	A	19	20	22	23	12'-4"	C	22	23	24	25	7'-9"	A	19	20	21	22	8	8	3'-0"	A	3'-3"	B	14	18																					



4/27/2009

TABLE 2.5				12 Ga 3"x8" Steel C Beam (Detail L18)					16 Ga 3"x8" Steel C Beam (Detail L18)					Double 12 Ga 3"x8" Steel C Beam (Detail L8)					TABLE 2.5					12 Ga 3"x8" Steel C Beam (Detail L18)					16 Ga 3"x8" Steel C Beam (Detail L18)					Double 12 Ga 3"x8" Steel C Beam (Detail L8)									
				Attached Structure			Freestanding or Multispan Units		Attached Structure			Freestanding or Multispan Units		Attached Structure			Freestanding or Multispan Units		Attached Structure			Freestanding or Multispan Units		Attached Structure			Freestanding or Multispan Units		Attached Structure			Freestanding or Multispan Units		Attached Structure			Freestanding or Multispan Units						
GROUND SNOW LOAD (PSF)	TRIB WIDTH (FT)	MAX POST SPACING ON SLAB (FT)	POST REQ'D FOR SLAB	MAX POST SPACING (FT)	MIN POST TYPE	FOOTER SIZE "d" (in)	MAX POST LENGTH CONstrained FOOTER			MAX POST SPACING (FT)	MIN POST TYPE	FOOTER SIZE "d" (in)	MAX POST LENGTH CONstrained FOOTER			MAX POST SPACING (FT)	MIN POST TYPE	FOOTER SIZE "d" (in)	MAX POST LENGTH CONstrained FOOTER			GROUND SNOW LOAD (PSF)	TRIB WIDTH (FT)	MAX POST SPACING ON SLAB (FT)	POST REQ'D FOR SLAB	MAX POST SPACING (FT)	MIN POST TYPE	FOOTER SIZE "d" (in)	MAX POST LENGTH CONstrained FOOTER			MAX POST SPACING (FT)	MIN POST TYPE	FOOTER SIZE "d" (in)	MAX POST LENGTH CONstrained FOOTER			MAX POST SPACING (FT)	MIN POST TYPE	FOOTER SIZE "d" (in)	MAX POST LENGTH CONstrained FOOTER		
90 MPH EXPOSURE B																																											
10 LIVE	3	5	22'-8"	A	30'-0"	B	22	28	31	27'-0"	B	21	27	30	30'-0"	B	22	28	31	30	30	3	3	8'-0"	A	24'-10"	D	20	27	30	33	15'-1"	C	17	24	26	30	30'-0"	D	22	28	31	35
	3.5	5	19'-5"	A	30'-0"	C	23	28	31	24'-6"	B	21	27	29	30'-0"	C	23	28	31	30	30	4	3.5	6'-10"	A	23'-7"	D	21	26	29	33	13'-6"	C	17	23	26	29	29'-9"	D	23	28	31	35
	4	5	17'-0"	A	30'-0"	C	24	28	31	22'-5"	B	22	26	29	30'-0"	C	24	28	31	30	30	4.5	4	6'-0"	A	22'-3"	D	21	26	29	33	12'-2"	C	18	23	25	29	28'-5"	D	23	27	31	34
	4.5	5	15'-1"	A	29'-7"	C	25	28	31	20'-9"	C	22	26	28	30'-0"	C	25	28	31	30	30	5	4.5	5'-4"	A	20'-8"	D	22	26	28	32	11'-1"	C	18	22	25	28	27'-4"	E	24	27	30	34
	5	5.5	13'-7"	A	28'-6"	C	25	27	31	19'-4"	C	22	25	28	30'-0"	C	26	28	31	30	30	5.5	5	4'-10"	A	19'-4"	D	22	25	28	32	10'-2"	C	18	22	24	28	26'-5"	E	24	27	30	34
	5.5	6	12'-4"	A	27'-8"	C	26	27	30	18'-1"	C	22	25	28	30'-0"	D	26	28	31	30	30	6	5.5	4'-4"	A	18'-2"	D	22	25	28	31	9'-3"	C	18	21	24	28	25'-7"	E	25	27	30	33
	6	6.5	11'-4"	A	26'-10"	C	26	27	30	17'-0"	C	22	24	27	30'-0"	D	27	28	31	30	30	6.5	6	4'-0"	A	17'-1"	D	23	24	27	31	8'-6"	C	18	21	24	27	24'-10"	E	26	27	30	33
	6.5	7	10'-5"	A	26'-2"	D	27	27	30	16'-0"	C	23	24	27	30'-0"	D	28	28	31	30	30	7	6.5	3'-8"	A	16'-3"	D	23	24	27	31	7'-10"	C	18	21	23	27	24'-2"	E	26	26	29	33
	7	7.5	9'-8"	A	25'-6"	D	27	27	30	15'-2"	C	23	24	27	30'-0"	D	29	29	31	30	30	7.5	7	3'-5"	A	15'-5"	D	23	24	27	30	7'-4"	C	18	20	23	26	23'-7"	E	26	26	29	33
	7.5	8	9'-1"	A	24'-11"	D	28	28	30	14'-5"	C	23	24	26	30'-0"	D	29	29	31	30	30	8	7.5	3'-2"	A	14'-9"	D	23	24	26	30	6'-10"	C	18	20	23	26	23'-1"	E	27	27	29	33
	8	8.5	8'-6"	A	24'-5"	D	28	28	29	13'-9"	C	23	23	26	30'-0"	D	30	30	31	30	30	8.5	8	3'-0"	A	14'-1"	D	23	23	26	30	6'-5"	C	18	20	22	26	22'-7"	E	27</			

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[illegible]

90 MPH EXPOSURE C															90 MPH EXPOSURE B																												
20 LIVE	3	11'-10"	A	26'-10"	C	24	30	33	38	17'-8"	C	21	27	30	34	30'-0"	D	25	31	34	38	60	3	4'-1"	A	17'-5"	D	18	25	27	31	8'-8"	C	14	21	24	27	24'-10"	E	20	27	30	33
	3.5	10'-2"	A	25'-6"	D	25	30	33	37	15'-10"	C	21	27	30	34	30'-0"	D	26	31	34	38		3.5	3'-6"	A	15'-8"	D	18	24	27	30	7'-6"	C	14	20	23	27	23'-7"	E	21	26	29	33
	4	8'-11"	A	24'-5"	D	25	29	33	37	14'-4"	C	21	26	29	33	30'-0"	D	27	31	34	38		4	3'-0"	A	14'-4"	D	19	23	26	30	6'-7"	C	14	20	22	26	22'-7"	E	22	26	29	33
	4.5	7'-11"	A	23'-5"	D	26	29	32	36	13'-2"	C	22	26	29	32	29'-7"	D	28	31	34	38		4.5	2'-8"	A	13'-2"	E	19	23	26	29	5'-10"	C	14	19	22	26	20'-8"	E	22	26	28	32
	5	7'-1"	A	22'-2"	D	27	29	32	36	12'-2"	C	22	25	28	32	28'-6"	D	29	30	34	38		5	2'-5"	A	12'-3"	E	19	23	25	29	5'-3"	C	14	19	22	25	18'-8"	E	22	25	28	31
	5.5	6'-5"	A	20'-11"	D	27	28	32	36	11'-3"	C	22	25	28	32	27'-8"	D	30	34	38		5.5	2'-2"	A	11'-5"	E	19	22	25	29	4'-9"	C	14	19	21	25	17'-0"	E	22	24	27	31	
	6	5'-11"	A	19'-9"	D	27	28	31	35	10'-7"	C	22	24	27	31	26'-10"	D	30	30	33	38		6	2'-0"	A	10'-8"	E	19	22	25	28	4'-4"	C	14	18	21	25	15'-7"	E	22	24	27	30
	6.5	5'-5"	A	18'-9"	D	27	28	31	35	9'-9"	C	22	24	27	31	26'-2"	D	31	31	33	37		6.5	1'-10"	A	10'-1"	E	19	22	24	28	4'-0"	C	14	18	21	24	14'-5"	E	22	24	26	30
	7	5'-1"	A	17'-10"	D	28	28	30	34	9'-1"	C	22	24	26	30	25'-6"	E	31	31	33	37		7	1'-9"	A	9'-7"	E	20	21	24	28	3'-9"	C	14	18	20	24	13'-5"	E	22	23	26	29
	7.5	4'-9"	A	17'-1"	D	28	28	30	34	8'-6"	C	22	23	26	30	24'-11"	E	32	32	33	37		7.5	1'-7"	A	9'-1"	E	20	21	24	27	3'-6"	C	14	18	20	24	12'-7"	E	22	23	25	29
	8	4'-5"	A	16'-4"	D	28	28	30	34	7'-11"	C	22	23	26	30	24'-5"	E	32	32	33	37		8	1'-6"	A	8'-8"	E	20	21	24	27	3'-3"	C	14	18	20	24	11'-10"	E	22	22	25	29
	8.5	4'-2"	A	15'-8"	D	28	28	30	34	7'-6"	C	22	23	25	29	23'-11"	E	33	33	33	37		8.5	1'-5"	A	8'-3"	E	20	21	23	27	3'-1"	C	14	18	20	24	11'-1"	E	22	22	25	28
9	3'-11"	A	15'-1"	D	28	28	29	33	7'-1"	C	22	22	25	29	23'-5"	E	33	33	33	36	90 MPH EXPOSURE C																						
9.5	3'-9"	A	14'-6"	D	29	29	29	33	6'-8"	C	22	22	25	29	23'-0"	E	33	33	33	36	60	3	4'-1"	A	17'-5"	D	21	27	30	34	8'-8"	C	16	23	26	30	24'-10"	E	23	30	33	37	
10	3'-6"	A	14'-0"	D	29	29	29	33	6'-4"	C	22	22	25	29	22'-6"	E	34	34	34	36		3.5	3'-6"	A	15'-8"	D	21	27	30	34	7'-6"	C	16	23	25	29	23'-7"	E	24	29	32	37	
11	3'-2"	A	13'-2"	D	29	29	29	32	5'-10"	C	22	22	24	28	20'-7"	E	34	34	34	35		4	3'-0"	A	14'-4"	D	21	26	29	33	6'-7"	C	16	22	25	29	22'-7"	E	25	29	32	36	

90 MPH EXPOSURE B																					
25	3	9'-7"	A	26'-5"	D	21	27	30	34	17'-1"	C	18	24	27	31	30'-0"	D	22	28	31	35
	3.5	8'-2"	A	25'-1"	D	21	27	30	33	15'-4"	C	18	24	27	30	15'-4"	D	23	28	31	35
	4	7'-2"	A	24'-0"	D	22	26	29	33	13'-10"	C	18	23	26	30	30'-0"	D	24	28	31	35
	4.5	6'-4"	A	23'-0"	D	23	26	29	33	12'-8"	C	19	23	26	29	29'-1"	D	24	28	31	34
	5	5'-9"	A	21'-7"	D	23	26	29	32	11'-9"	C	19	22	25	29	28'-1"	E	25	27	30	34
	5.5	5'-2"	A	20'-3"	D	23	25	28	32	10'-11"	C	19	22	25	28	27'-2"	E	26	27	30	34
	6	4'-9"	A	19'-2"	D	23	25	28	32	10'-1"	C	19	22	24	28	26'-5"	E	26	27	30	34
	6.5	4'-5"	A	18'-2"	D	24	25	28	31	9'-4"	C	19	21	24	28	25'-9"	E	26	27	30	34
	7	4'-1"	A	17'-4"	D	24	25	27	31	8'-8"	C	19	21	24	27	25'-1"	E	27	27	30	33
	7.5	3'-10"	A	16'-7"	D	24	24	27	31	8'-1"	C	19	23	23	27	24'-6"	E	27	27	30	33
8	3'-7"	A	15'-10"	D	24	24	27	30	7'-7"	C	19	20	23	27	24'-0"	E	28	28	29	33	
8.5	3'-4"	A	15'-2"	D	24	24	27	30	7'-2"	C	19	20	23	26	23'-6"	E	28	28	29	33	
9	3'-2"	A	14'-7"	D	24	24	26	30	6'-9"	C	19	20	23	26	23'-1"	E	28	28	29	33	
9.5	3'-0"	A	14'-1"	D	25	25	26	30	6'-5"	C	19	20	22	26	22'-7"	E	29	29	29	33	

4.5	2'-8"	A	13'-2"	E	22	26	29	33	5'-10"	C	16	22	24	28	20'-8"	E	25	28	31	36
5	2'-5"	A	12'-3"	E	22	25	28	32	5'-3"	C	16	21	24	28	18'-8"	E	25	28	31	35
5.5	2'-2"	A	11'-5"	E	22	25	28	32	4'-9"	C	16	21	23	28	17'-0"	E	25	27	30	34
6	2'-0"	A	10'-8"	E	22	24	27	31	4'-4"	C	16	20	23	27	15'-7"	E	25	27	30	34
6.5	1'-10"	A	10'-1"	E	22	24	27	31	4'-0"	C	16	20	23	27	14'-5"	E	25	26	29	33
7	1'-9"	A	9'-7"	E	22	24	27	31	3'-9"	C	16	20	23	27	13'-5"	E	25	26	29	33

OVER- HANG (FT)	TABLE 2.2 TRIBUTARY WIDTHS FOR SINGLE SPAN ATTACHED STRUCTURES PROJECTION OF SINGLE SPAN STUCTURES (FT)														
	8'	9'	10'	11'	12'	13'	14'	15'	16'	17'	18'	19'	20'	21'	22'
0'	4'	4.5'	5'	5.5'	6'	6.5'	7'	7.5'	8'	8.5'	9'	9.5'	10'	10.5'	11'
1'	4.5'	5'	5.5'	6'	6.5'	7'	7.5'	8'	8.5'	9'	9.5'	10'	10.5'	11'	11.5'
2'	5'	5.5'	6'	6.5'	7'	7.5'	8'	8.5'	9'	9.5'	10'	10.5'	11'	11.5'	12'
3'	5.5'	6'	6.5'	7'	7.5'	8'	8.5'	9'	9.5'	10'	10.5'	11'	11.5'	12'	12.5'
4'	6'	6.5'	7'	7.5'	8'	8.5'	9'	9.5'	10'	10.5'	11'	11.5'	12'	12.5'	13'

[illegible]

1. CHOOSE FREESTANDING OR ATTACHED STRUCTURE
2. CHOOSE PROJECTION, WIDTH AND OVERHANG OF UNIT
3. DETERMINE WIND AND LIVE OR SNOW LOAD OF STRUCTURE SITE
(PATIO UNITS USE 10 PSF MIN, COMMERCIAL UNITS
USE 20PSF MIN)
4. CHOOSE A RAFTER FROM **TABLES 1.1 TO 1.8** THAT HAS
ADEQUATE CLEARSPAN FOR YOUR NEEDS.
5. DETERMINE TRIBUTARY WIDTH FROM TABLE 2.2 OR
CALCULATE FROM TRIBUTARY DIAGRAM **ON SC02 PAGE 2 OF 2**
6. CHOOSE A HEADER FROM TABLE 2.5 THAT HAS ADEQUATE
POST SPACING.
7. USE THE APPROPRIATE FOOTER SIZE SHOWN.

8. FOR SINGLE SPAN ATTACHED UNIT USE THE POST SHOWN
UPGRADE THE POST IF THE HEIGHT IS NOT SUFFICIENT
FREESTANDING AND MULTISPAN UNITS USE TABLE 2.4
9. FIND THE O/C SPACING OR # OF FASTENERS FOR ATTACHING TO WALL FROM TABLE 7.6
10. USE THE APPROPRIATE DETAILS
11. ALL LATTICE **NOT USING DETAIL L29** MUST COMPLY WITH TABLES **L1** AND **L2** ON SHEET **M5**
FOR PATIO SLABS FOLLOW 1-6 FROM ABOVE THEN
SLAB 7. DETERMINE MAXIMUM POST SPACING ON SLAB FROM TABLE 2.5
SLAB 8. USE THE SMALLER OF THE POST SPACING ON SLAB OR HEADER POST SPACING
SLAB 9. FOLLOW **9-11** FROM ABOVE
SLAB 10. FOR **TWO** POST STRUCTURES USE **TABLE 7.1** ON SHEET **M3** FOR SLAB REQUIREMENTS IN
SLAB11. CHECK TABLES **SLAB1** AND **SLAB2** ON **M5** FOR CORNER DISTANCE REQUIREMENTS.

Post Description	Max Hgt	POST
Twin 0.062"x1.5"x1.5" ScRoll	9'	A
0.042"x3"x8" Aluminum Post	11'	B
0.024"Post with Sideplates	12'	B
Clover 0.032"x3"x3" Alum	12'	B
Clover 0.040"x3"x3" Alum	12'	B
Colonial 0.062" Extruded	12'	C
0.041"x3"x3" Steel Clover	12'	D
0.041"x3"x3" Steel Clover	8'	E
3/16"x3"x3" Steel Square	15'	F
3/16"x4"x4" Steel Square	18'	G
5/16"x4"x4" Steel Square	18'	H

Post Description	Maximum Footing	Max Height	POST
0.041"x3"x3" Steel Clover	d = 23"	12'	D
0.041"x3"x3" Steel Clover	d = 23"	8'	E
3/16"x3"x3" Steel Square	d = 32"	15'	F
3/16"x4"x4" Steel Square	d = 38"	18'	G
5/16"x4"x4" Steel Square	d = 42"	18'	H

Carl Putnam, P. E.
3441 Ivylink Place
Lynchburg, VA 24503
carlputnam@comcast.net

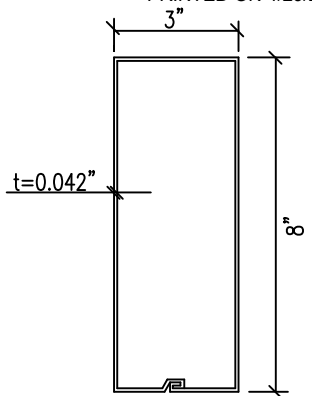


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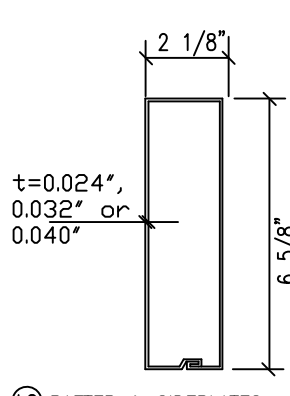
TABLE 3.5				12 Ga 3"x8" Steel C Beam (Detail L18)					16 Ga 3"x8" Steel C Beam (Detail L18)					Double 12 Ga 3"x8" Steel C Beam (Detail L8)					12 Ga 3"x8" Steel C Beam (Detail L18)				16 Ga 3"x8" Steel C Beam (Detail L18)					Double 12 Ga 3"x8" Steel C Beam (Detail L8)																		
				Attached Structure			Freestanding or Multispan Units		Attached Structure			Freestanding or Multispan Units		Attached Structure			Freestanding or Multispan Units		Attached Structure			Freestanding or Multispan Units		Attached Structure			Freestanding or Multispan Units		Attached Structure			Freestanding or Multispan Units														
GROUND SNOW LOAD (PSF)	TRIB WIDTH (FT)	MAX POST SPACING ON SLAB (FT)	POST REQ'D FOR SLAB	MAX POST SPACING (FT)	MIN POST TYPE	FOOTER SIZE "d" (in)	MAX POST LENGTH CONSTRAINED FOOTER			MAX POST SPACING (FT)	MIN POST TYPE	FOOTER SIZE "d" (in)	MAX POST LENGTH CONSTRAINED FOOTER			MAX POST SPACING (FT)	MIN POST TYPE	FOOTER SIZE "d" (in)	MAX POST LENGTH CONSTRAINED FOOTER			MAX POST SPACING (FT)	MIN POST TYPE	FOOTER SIZE "d" (in)	MAX POST LENGTH CONSTRAINED FOOTER			MAX POST SPACING (FT)	MIN POST TYPE	FOOTER SIZE "d" (in)	MAX POST LENGTH CONSTRAINED FOOTER															
105 MPH EXPOSURE C																																														
10 LIVE	3	3	22'-8"	A	30'-0"	B	28	33	37		26'-7"	B	26	32	36		30'-0"	B	28	33	37		25	3	9'-7"	A	26'-5"	D	26	32	36	40		17'-1"	C	23	29	32	37		30'-0"	D	28	33	37	41
	3.5	3.5	19'-5"	A	30'-0"	C	29	33	37		24'-6"	B	27	32	35		38	30'-0"	C	29	33		37	15'-4"	C	23	28	32	36	30'-0"	D	29		33	37	41										
	4	4	17'-0"	A	29'-5"	C	30	33	37		22'-5"	B	28	31	34		38	30'-0"	C	30	33		37	13'-10"	C	23	28	31	35	30'-0"	D	30		33	37	41										
	4.5	4.5	15'-1"	A	28'-4"	C	31	33	36		20'-9"	C	28	30	34		38	30'-0"	C	32	33		37	12'-8"	C	24	27	30	35	29'-1"	D	31		33	37	41										
	5	5	13'-7"	A	27'-5"	C	32	32	36		19'-4"	C	28	30	33		36	30'-0"	C	33	33		37	11'-9"	C	24	27	30	34	28'-1"	E	32		33	36	41										
	5.5	5.5	12'-4"	A	26'-7"	C	32	32	36		18'-1"	C	29	29	33		36	30'-0"	D	34	34		37	10'-11"	C	24	26	29	34	27'-2"	E	33		33	36	40										
	6	6	11'-4"	A	25'-10"	C	33	33	36		17'-0"	C	29	29	32		35	37	30'-0"	D	35		35	37	10'-1"	C	24	26	29	33	26'-5"	E		33	33	36	40									
	6.5	6.5	10'-5"	A	25'-3"	D	34	34	35		16'-0"	C	29	29	32		36	37	30'-0"	D	36		36	37	9'-4"	C	24	25	29	33	25'-9"	E		34	34	36	40									
	7	7	9'-8"	A	24'-7"	D	34	34	35		15'-2"	C	29	29	32		37	37	30'-0"	D	37		37	37	8'-8"	C	24	25	28	32	25'-1"	E		34	34	35	40									
	7.5	7.5	9'-1"	A	24'-1"	D	35	35	35		14'-5"	C	29	29	31		38	38	30'-0"	D	37		37	37	8'-1"	C	24	25	28	32	24'-6"	E		35	35	35	40									
	8	8	8'-6"	A	23'-7"	D	35	35	35		13'-9"	C	30	30	31		39	39	29'-5"	D	38		38	38	7'-7"	C	24	24	27	32	24'-0"	E		35	35	35	39									
	8.5	8.5	8'-0"	A	23'-2"	D	36	36	36		13'-2"	C	30	30	31		39	39	28'-10"	D	39		39	39	7'-2"	C	24	24	27	31	23'-6"	E		36	36	36	39									
	9	9	7'-6"	A	22'-8"	D	36	36	36		12'-7"	C	30	30	30		30	39	28'-4"	D	39		39	39	6'-9"	C	24	24	27	31	23'-1"	E		36	36	36	39									
9.5	9.5	7'-2"	A	22'-2"	D	37	37	37	12'-1"	C	30	30	30	30	40	27'-10"	D	40	40	40	6'-5"	C	24	24	27	31	22'-7"	E	37	37	37	39														
10	10	6'-9"	A	21'-5"	D	37	3																																							

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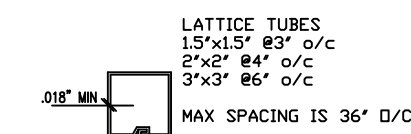




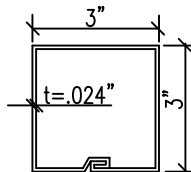
(L1) HEADER
(3004-H36 ALUM. ALLOY)



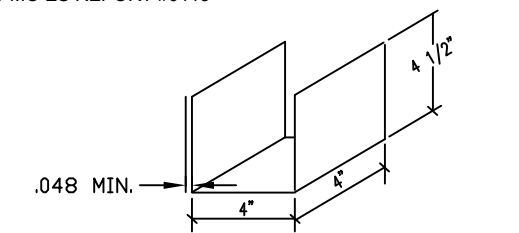
(L2) RAFTER & SIDEPLATES
(3004-H36 ALUM. ALLOY)



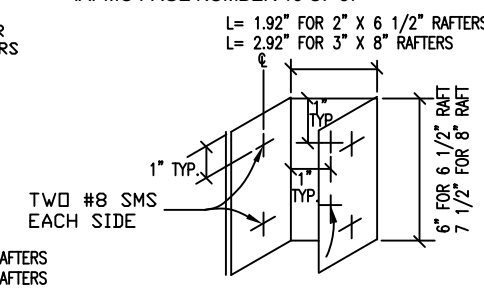
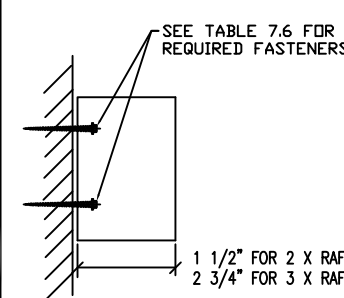
(L3) LATTICE
(3105-H26 ALUM. ALLOY)



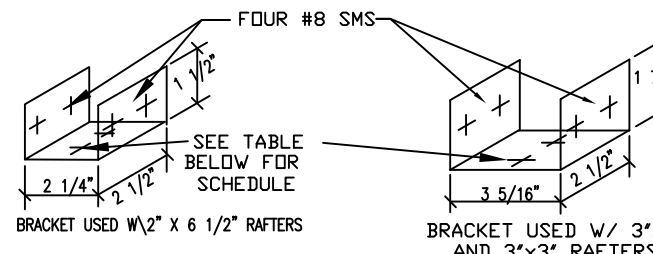
(L4) POST
(3105-H26 ALUM. ALLOY)



(L5) ASTM A-653 Fy=40 KSI
STEEL CONNECTOR FOR WOOD POST CONNECTION



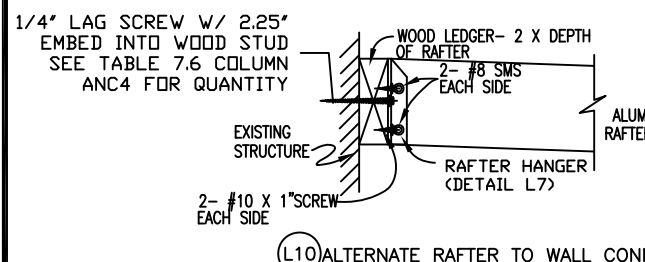
(6063-T6 ALUM. ALLOY, T= 0.060")
(L7) RAFTER HANGER



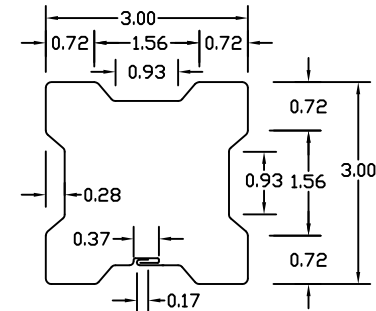
RAFTER TO
HEADER
CONNECTION
BRACKETS
6063T6
ALUM ALLOY
T=0.060"
(L9)

Wind Speed	t (in)	Header	Allowable Trib Width				
			No. of #8 Screws				
90 MPH	0.032	Double 2x6	12'	15'	15'	15'	15'
Exp C	0.042	0.042"x3"x8"	8'	12'	15'	15'	15'
	0.042	Double 3x8	15'	15'	15'	15'	15'
110MPH	0.032	Double 2x6	8'	12'	15'	15'	15'
Exp C	0.042	0.042"x3"x8"	5'	8'	10'	15'	15'
	0.042	Double 3x8	10'	15'	15'	15'	15'
			No. of #14 Screws				
130MPH	0.032	Double 2x6	7'	11'	15'	15'	15'
Exp C	0.042	0.042"x3"x8"	5'	7'	10'	13'	13'
	0.042	Double 3x8	10'	15'	15'	15'	15'

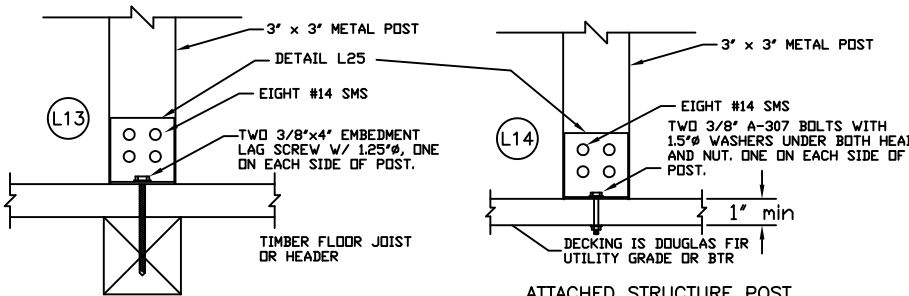
USE TWO #14 SMS WHEN
ATTACHING TO STEEL C BEAMS.
130 MPH REQUIRES THREE
#14SCREWS FOR TRIB WIDTHS
OVER 10'



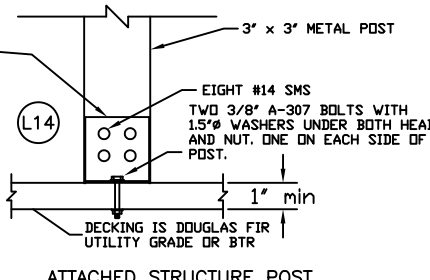
(L10) ALTERNATE RAFTER TO WALL CONN.



(L11) 3" ALTERNATE POST
(3004 H36 ALUM. ALLOY OR
A-653 Fy=40 KSI STEEL)

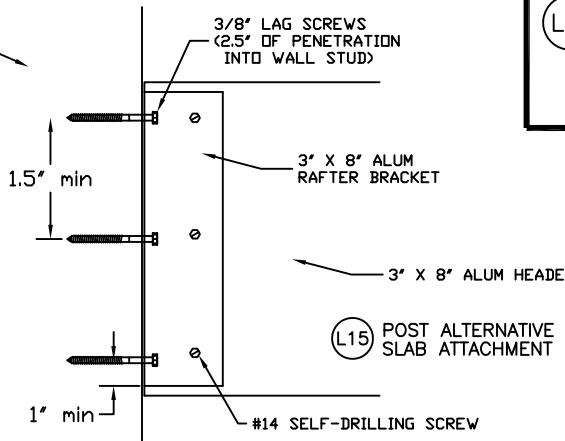


(L13)

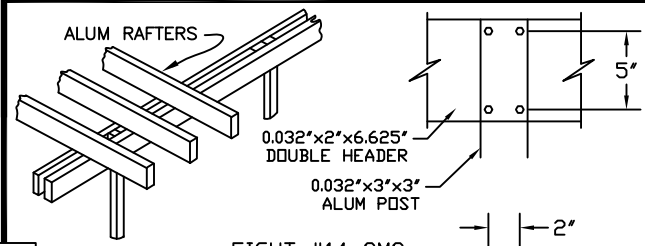


(L14)

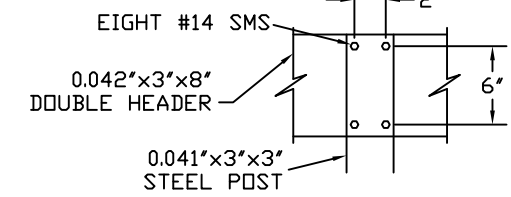
ATTACHED STRUCTURE POST
TO DECK FLOOR JOIST
SEE GENERAL NOTE #19 AND
LATTICE NOTE #3
UNITS MUST COMPLY WITH TABLES
L1 AND L2 ON SHEET M5
THESE DETAILS ARE
LIMITED TO 90 mph
EXPOSURE B AND C



(L15) POST ALTERNATIVE FOR
SLAB ATTACHMENT ONLY



(L12)



4/27/2009
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PRINTED ON 4/29/2009

ALTERNATE 3" SQ POST CONNECTOR BRACKET (6063T6 ALUM)
IF DETAIL L29 IS NOT USED ATTACH SIDE PLATES AS PER DETAIL L26

L16

5.5"

1.575"

2.35"

0.100"

2.5"

0.750"

1.0"

0.041x3"x3" STEEL POST

3/8" BOLTS SEE TABLE 7.3 COLUMN "H" FOR QUANTITY OR #14 SELF DRILLING SCREWS SEE TABLE 7.3 COLUMN "G" FOR QUANTITY

3/8" BOLTS W/ 1" DIA. x 3/32" THK. STL. WASHER TO 8" STEEL "C" BEAM SEE TABLE 7.4 COLUMN "N" FOR QUANTITY FOR #14 SELF DRILLING SCREWS SEE TABLE 7.4 COLUMN "D".

L17

TWO 3/8" X 4" LAG SCREWS

DETAIL "A"

2"x FASCIA

2"x WOOD FRAMING DOUGLAS FIR-LARCH (NORTH) #2 OR BTR

SEE DETAIL "A" @ RIGHT

HANGER

STRUCTURAL PANEL

L

SEE TABLE 7.5 FOR FASTENER SCHEDULE

1/2" FASCIA

FOR MAXIMUM OVERHANG SEE SCHEDULE @ RIGHT

ALTERNATE EAVE ATTACHMENT

IAPMO ES REPORT #0113

IAPMO PAGE NUMBER 17 OF 57

Live/Snow Load Solid Cover Wind	RAFTER SIZE (24" O/C)	MAX DISTANCE TO FIRST ROW OF POSTS "L"				
		12"	18"	24"	30"	36"
10 psf	2x4	15'-8"	8'-11"	5'-6"	2'-6"	0'-2"
90 MPH Exp B	2x6	22'-0"	22'-0"	17'-4"	13'-8"	9'-6"
	2x8	22'-0"	22'-0"	22'-0"	22'-0"	22'-0"
10 psf	2x4	11'-2"	6'-7"	4'-1"	2'-4"	0'-2"
90 MPH Exp C	2x6	22'-0"	22'-0"	15'-1"	10'-1"	7'-2"
	2x8	22'-0"	22'-0"	22'-0"	22'-0"	22'-0"
20 psf	2x4	8'-6"	4'-9"	2'-8"	1'-3"	0'-1"
105 MPH Exp B	2x6	12'-4"	12'-4"	9'-8"	6'-10"	4'-9"
	2x8	12'-4"	12'-4"	12'-4"	12'-4"	11'-6"
25 psf	2x4	6'-9"	3'-9"	2'-1"	0'-10"	0'-0"
105 MPH Exp C	2x6	13'-7"	11'-3"	7'-8"	5'-4"	3'-8"
	2x8	13'-7"	13'-7"	13'-7"	11'-10"	9'-1"
30 psf	2x4	5'-6"	3'-0"	1'-6"	0'-4"	0'-0"
110 MPH Exp C	2x6	11'-1"	9'-2"	6'-1"	4'-1"	2'-8"
	2x8	11'-4"	11'-4"	11'-4"	9'-6"	7'-1"
40 psf	2x4	3'-10"	1'-10"	0'-8"	0'-0"	0'-0"
	2x6	7'-10"	6'-7"	4'-2"	2'-7"	1'-4"
	2x8	8'-4"	8'-4"	8'-4"	6'-7"	4'-8"
60 psf	2x4	2'-3"	0'-10"	0'-0"	0'-0"	0'-0"
	2x6	3'-10"	2'-2"	2'-2"	1'-0"	0'-1"
	2x8	5'-9"	5'-9"	5'-3"	3'-8"	5'-9"

DETAIL 3" X 8" - 1 FOR ATTACHED STRUCTURES POST TO WRAPPED 3" X 8" X 12 or 16 GA. 'C' BEAM HEADER CONNECTIONS

L18

3"x8" 12 (t=0.105") OR 16 GAUGE (t=0.059") STEEL C BEAM
Fy= 50 KSI

3"x8" BOX BEAM WRAP

L19

2- #14 SMS EACH SIDE

3" X 8" HEADER

2- 2" X 6 1/2" SIDEPLATES ONE EACH SIDE OF COLUMN

3" X 3" POST

HEADER SPLICE MUST BE CENTERED ON POST

L23

#14 SMS

3" X 8" BOX BEAM HEADER

ALUM. "H" BRACKET

3" X 3" ALUM. POST

6"

0.060"

3"

3"

L21

3" OR 4"

3" OR 4"

3/16" OR 5/16"

L22

2" x 4" Stud

2" x 6" Ledger Board

3/8" Lag Screw

1.00" min.

3.5" MIN

2.5" MIN PENETRATION INTO WOOD FRAMING

ATTACH LATTICE COVER AS PER L7

Completely Seal with permanently flexible & waterproof sealant

1.00" min.

Synthetic Stucco or other non-structural covering (1" max. thick)

Sheathing

SEE ALLOWABLE DISTANCE TO FIRST ROW OF POSTS IN TABLE 7.7

REGISTERED PROFESSIONAL ENGINEER

CARL PUTNAM

C 68139

EXP. 6/30/2009

CIVIL

STATE OF CALIFORNIA

4/27/2009

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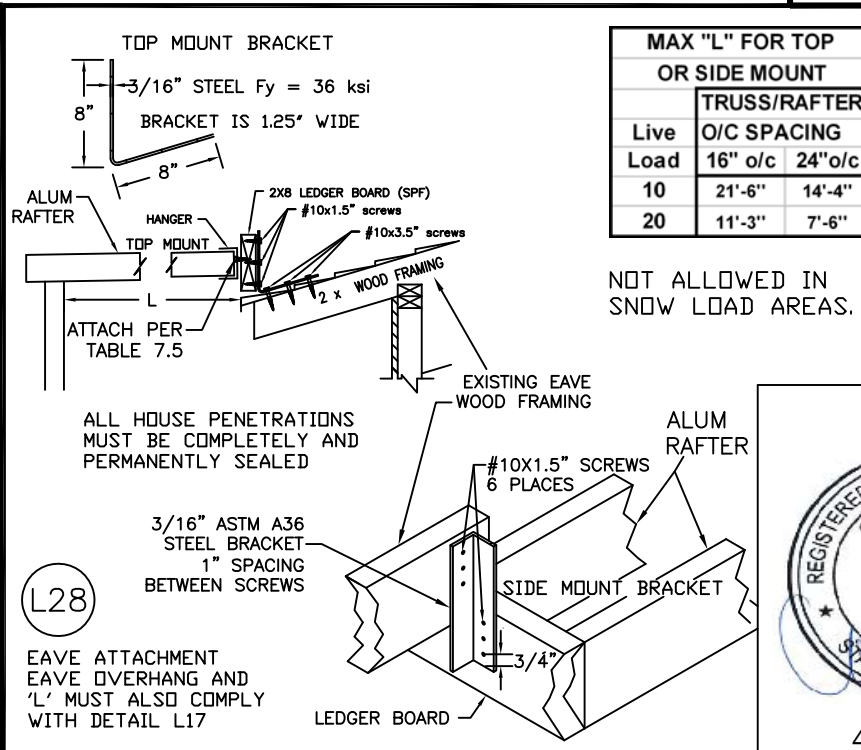
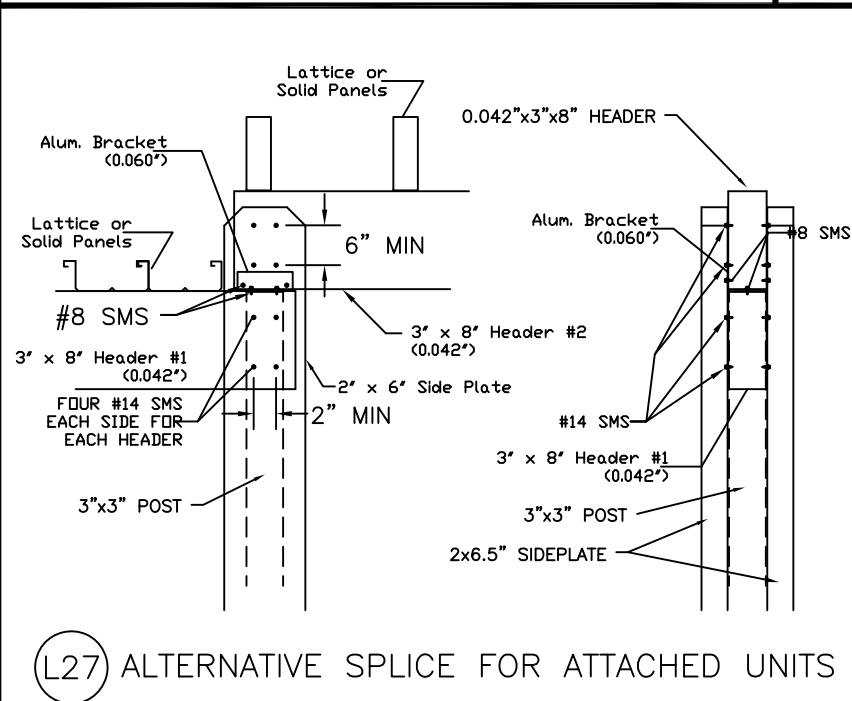
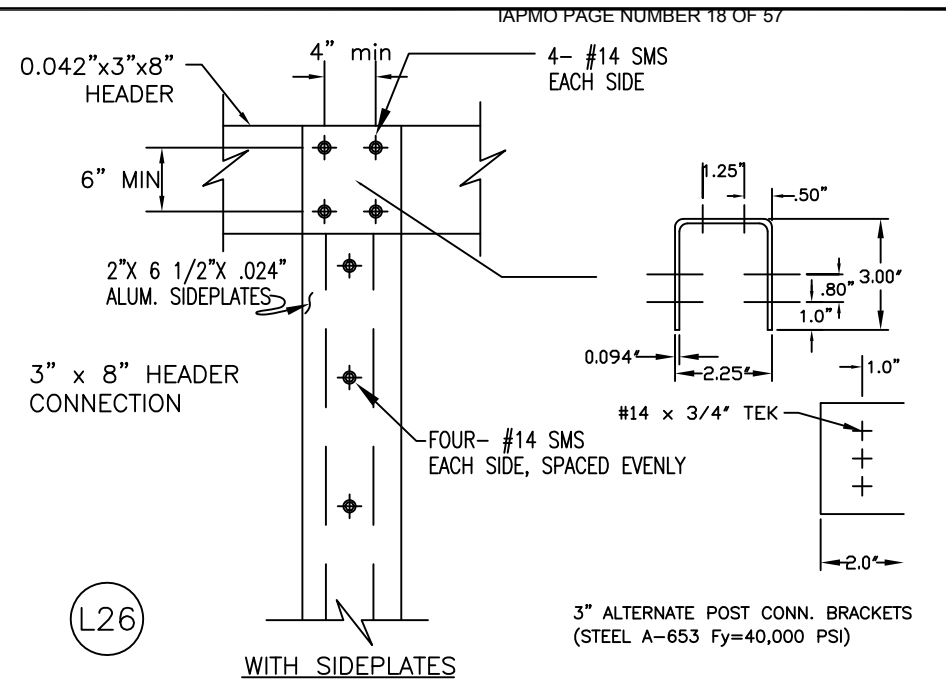
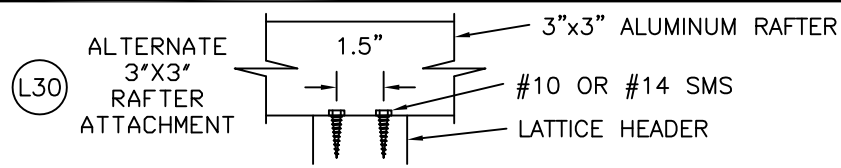
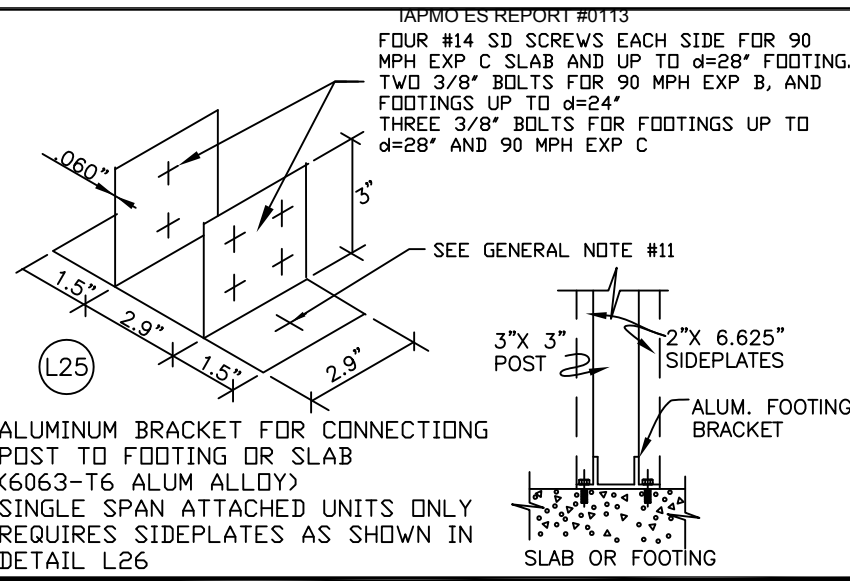
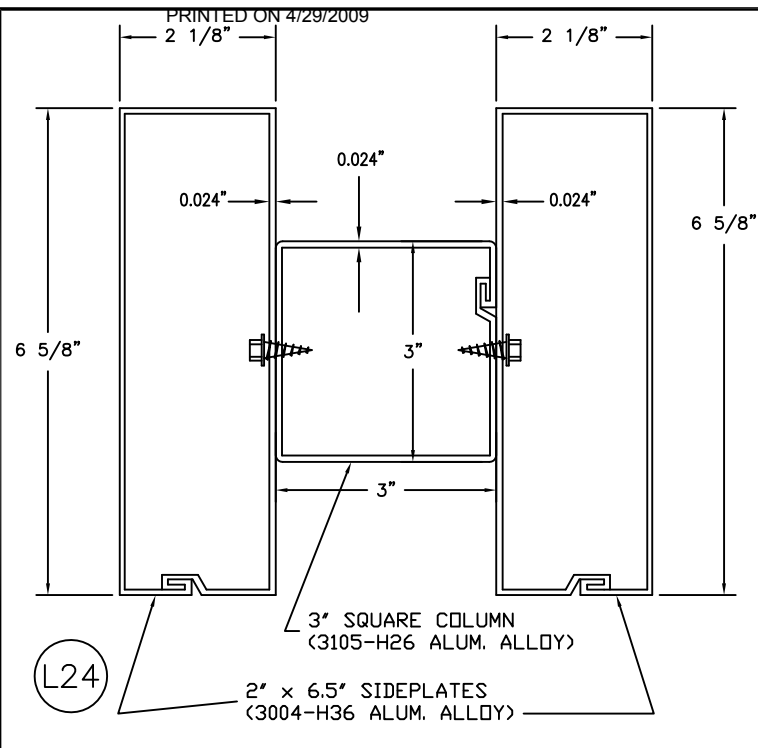
ALUMINUM "H" BRACKET FOR CONNECTING POST TO HEADER (6063T6 ALUM ALLOY)
THIS DETAIL MAY ONLY BE USED WITH DETAIL L29

Amerimax

BUILDING PRODUCTS, INC.

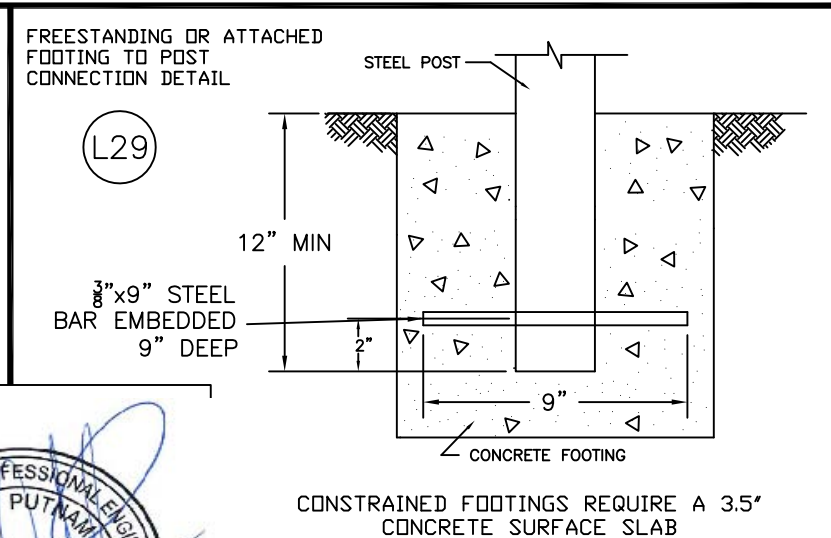
5208 TENNYSON PARKWAY SUITE 100 PLANO, TEXAS 75024

DRAWN BY: BEJ/CP	TYPE:
SCALE: NTS	Component Parts & Connection Details For Patio & Commercial Lattice Structures
DATE:	FILE#: LT02-2006
SHEET: 2 of 3	



MAX "L" FOR TOP OR SIDE MOUNT		
	TRUSS/RAFTER	
Live Load	16" o/c	24" o/c
10	21'-6"	14'-4"
20	11'-3"	7'-6"

NOT ALLOWED IN SNOW LOAD AREAS.



CONSTRAINED FOOTINGS REQUIRE A 3.5' CONCRETE SURFACE SLAB



4/27/2009
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[illegible]

4/27/2009

				12 Ga 3"x8" Steel C Beam (Detail T)					16 Ga 3"x8" Steel C Beam (Detail T)					Double 12 Ga 3"x8" Steel C Beam (T and AY)					12 Ga 3"x8" Steel C Beam (Detail T)				16 Ga 3"x8" Steel C Beam (Detail T)				Double 12 Ga 3"x8" Steel C Beam (T and AY)																
TABLE 5.5						Attached Structure		Freestanding or Multispan Units					Attached Structure		Freestanding or Multispan Units					Attached Structure		Freestanding or Multispan Units					Attached Structure		Freestanding or Multispan Units					Attached Structure		Freestanding or Multispan Units							
GROUND SNOW LOAD (PSF)	TRIB WIDTH (FT)	MAX POST SPACING (FT)	POST REQ'D FOR SLAB	MAX POST SPACING (FT)	MIN POST TYPE	FOOTER SIZE (in)	MAX POST LENGTH CONstrained FOOTER			MAX POST SPACING (FT)	MIN POST TYPE	FOOTER SIZE (in)	MAX POST LENGTH CONstrained FOOTER			MAX POST SPACING (FT)	MIN POST TYPE	FOOTER SIZE (in)	MAX POST LENGTH CONstrained FOOTER			GROUND SNOW LOAD (PSF)	TRIB WIDTH (FT)	MAX POST SPACING (FT)	POST REQ'D FOR SLAB	MAX POST SPACING (FT)	MIN POST TYPE	FOOTER SIZE (in)	MAX POST LENGTH CONstrained FOOTER			MAX POST SPACING (FT)	MIN POST TYPE	FOOTER SIZE (in)	MAX POST LENGTH CONstrained FOOTER			MAX POST SPACING (FT)	MIN POST TYPE	FOOTER SIZE (in)	MAX POST LENGTH CONstrained FOOTER		
							8'	12'	18'				8'	12'	18'				8'	12'	18'								8'	12'	18'				8'	12'	18'				8'	12'	18'
90 MPH EXPOSURE B																																											
10 LIVE	3	5	22'-8"	A	30'-0"	B	26	29	32	26'-10"	B	25	28	31	30'-0"	B	26	29	32	30'-0"	B	26	29	32	24'-10"	D	24	28	31	35	15'-1"	C	20	25	28	31	30'-0"	D	26	29	32	36	
	3.5	19'-5"	A	30'-0"	C	27	29	32	24'-6"		B	25	28	31		30'-0"	C	27	29		32	30'-0"	C	27		29	32	13'-6"	C	21		24	27	30	29'-9"	D		27	29	32	36		
	4	17'-0"	A	29'-8"	C	28	29	32	22'-5"		B	26	27	30		30'-0"	C	28	29		32	30'-0"	C	28		29	32	12'-2"	C	21		24	26	30	28'-5"	D		28	29	32	36		
	4.5	15'-1"	A	28'-8"	C	29	29	32	20'-9"		C	26	27	30		30'-0"	C	29	29		32	30'-0"	C	29		29	32	11'-1"	C	21		23	26	29	27'-4"	E		28	28	32	35		
	5	13'-7"	A	27'-9"	C	30	30	32	19'-4"		C	26	26	29		30'-0"	C	30	30		32	30'-0"	C	30		30	32	10'-2"	C	21		23	25	29	26'-5"	E		29	29	31	35		
	5.5	12'-4"	A	26'-11"	C	30	30	31	18'-1"		C	26	26	29		30'-0"	D	31	31		32	30'-0"	D	31		31	32	9'-3"	C	21		22	25	28	25'-7"	E		30	30	31	35		
	6	11'-4"	A	26'-2"	C	31	31	31	17'-0"		C	27	27	28		30'-0"	D	32	32		32	30'-0"	D	32		32	32	8'-6"	C	21		22	24	28	24'-10"	E		30	30	31	35		
	6.5	10'-5"	A	25'-6"	D	31	31	31	16'-0"		C	27	27	28		30'-0"	D	33	33		33	30'-0"	D	33		33	33	7'-10"	C	21		21	24	28	24'-2"	E		31	31	31	34		
	7	9'-8"	A	24'-11"	D	32	32	32	15'-2"		C	27	27	28		30'-0"	D	34	34		34	30'-0"	D	34		34	34	7'-4"	C	21		21	24	27	23'-7"	E		31	31	31	34		
	7.5	9'-1"	A	24'-4"	D	32	32	32	14'-5"		C	27	27	27		30'-0"	D	35	35		35	30'-0"	D	35		35	35	6'-10"	C	21		21	23	27	23'-1"	E		32	32	32	34		
	8	8'-6"	A	23'-10"	D	33	33	33	13'-9"		C	27	27	27		29'-9"	D	36	36		36	29'-9"	D	36		36	36	6'-5"	C	21		21	23	27	22'-7"	E		32	32	32	34		
	8.5	8'-0"	A	23'-5"	D	33	33	33	13'-2"		C	28	28	28		29'-2"	D	36	36		36	29'-2"	D	36		36	36	6'-0"	C	21		21	23	26	21'-4"	E		32	32	32	33		
	9	7'-6"	A	22'-11"	D	34	34	34	12'-7"		C	28	28																														



4/27/2009

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4/27/2009

[illegible]

110 MPH EXPOSURE C																						
30	3	3	8'-0"	A	24'-10"	D	32	34	38	42	15'-1"	C	27	30	34	38	30'-0"	D	34	35	39	44
	3.5	6'-10"	A	23'-7"	D	33	33	37	42	13'-6"	C	27	29	33	37	29'-9"	D	35	35	39	44	
	4	6'-0"	A	22'-3"	D	34	34	37	41	12'-2"	C	28	29	32	37	28'-5"	D	37	37	39	44	
	4.5	5'-4"	A	20'-8"	D	34	34	36	41	11'-1"	C	28	28	32	36	27'-4"	E	37	37	38	43	
	5	4'-10"	A	19'-4"	D	35	35	36	40	10'-2"	C	28	28	31	35	26'-5"	E	38	38	38	43	
	5.5	4'-4"	A	18'-2"	D	35	35	35	40	9'-3"	C	28	28	30	35	25'-7"	E	39	39	39	43	
	6	4'-0"	A	17'-1"	D	35	35	35	39	8'-6"	C	28	28	30	34	24'-10"	E	40	40	40	42	
	6.5	3'-8"	A	16'-3"	D	36	36	36	39	7'-10"	C	28	28	29	34	24'-2"	E	41	41	41	42	
	7	3'-5"	A	15'-5"	D	36	36	36	38	7'-4"	C	28	28	29	33	23'-7"	E	41	41	41	42	
	7.5	3'-2"	A	14'-9"	D	36	36	36	38	6'-10"	C	28	28	29	33	23'-1"	E	42	42	42	42	
8	3'-0"	A	14'-1"	D	36	36	36	38	6'-5"	C	28	28	28	33	22'-7"	E	43	43	43	43		
8.5	2'-10"	A	13'-6"	D	37	37	37	37	6'-0"	C	28	28	28	32	21'-4"	E	43	43	43	43		
9	2'-8"	A	12'-11"	E	37	37	37	37	5'-8"	C	28	28	28	32	20'-2"	E	43	43	43	43		
105 MPH EXPOSURE C																						
30	3	3	8'-0"	A	24'-10"	D	31	33	37	41	15'-1"	C	26	29	33	37	30'-0"	D	34	35	39	44
	3.5	6'-10"	A	23'-7"	D	32	33	36	41	13'-6"	C	26	29	32	36	29'-9"	D	35	35	39	44	
	4	6'-0"	A	22'-3"	D	33	33	36	40	12'-2"	C	27	28	31	36	28'-5"	D	37	37	39	44	
	4.5	5'-4"	A	20'-8"	D	33	33	35	40	11'-1"	C	27	28	31	35	27'-4"	E	37	37	38	43	
	5	4'-10"	A	19'-4"	D	33	33	35	39	10'-2"	C	27	27	30	35	26'-5"	E	38	38	38	43	
	5.5	4'-4"	A	18'-2"	D	34	34	34	39	9'-3"	C	27	27	30	34	25'-7"	E	39	39	39	43	
	6	4'-0"	A	17'-1"	D	34	34	34	38	8'-6"	C	27	27	29	33	24'-10"	E	40	40	40	42	
	6.5	3'-8"	A	16'-3"	D	34	34	34	38	7'-10"	C	27	27	29	33	24'-2"	E	41	41	41	42	
	7	3'-5"	A	15'-5"	D	35	35	35	37	7'-4"	C	27	27	28	32	23'-7"	E	41	41	41	42	
	7.5	3'-2"	A	14'-9"	D	35	35	35	37	6'-10"	C	27	27	28	32	23'-1"	E	42	42	42	42	
8	3'-0"	A	14'-1"	D	35	35	35	37	6'-5"	C	27	27	28	32	22'-7"	E	43	43	43	43		
8.5	2'-10"	A	13'-6"	D	35	35	35	36	6'-0"	C	27	27	27	32	21'-4"	E	43	43	43	43		
9	2'-8"	A	12'-11"	E	36	36	36	36	5'-8"	C	27	27	27	31	20'-2"	E	43	43	43	43		

REGISTERED PROFESSIONAL ENGINEER

CARL PUTNAM

C 68139

EXP. 6/30/2009

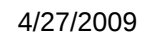
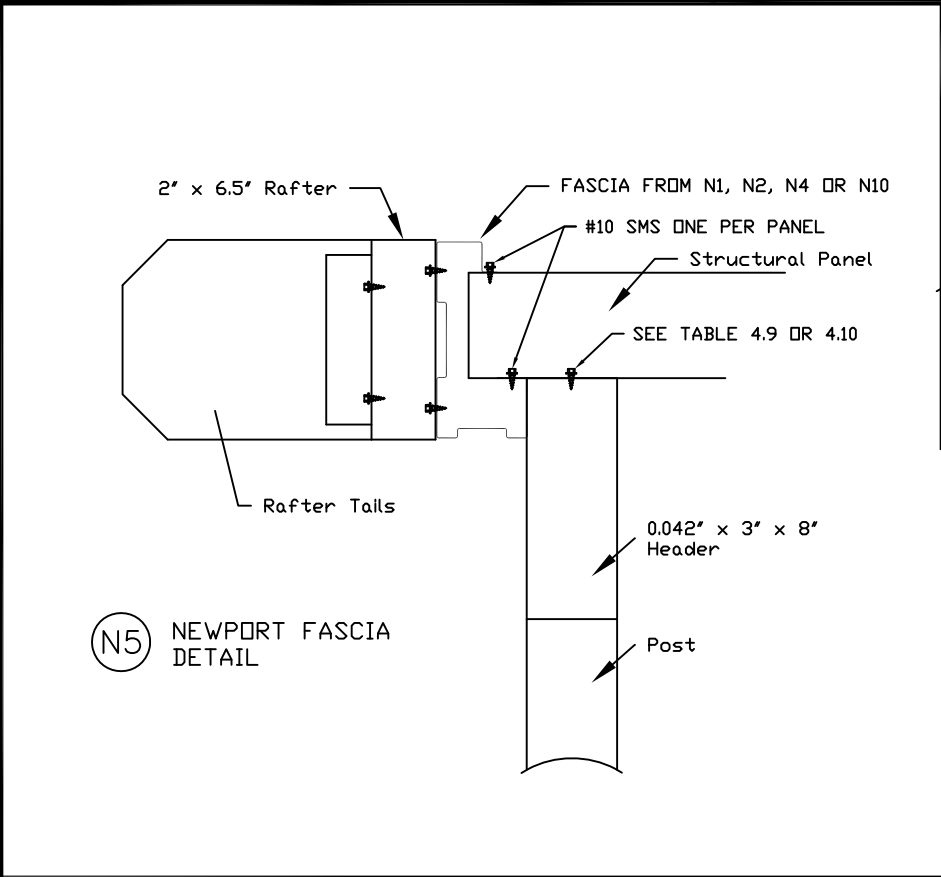
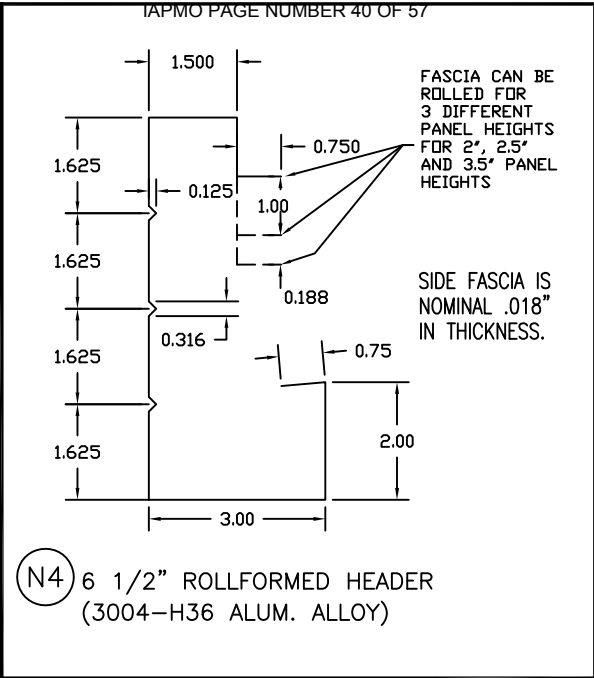
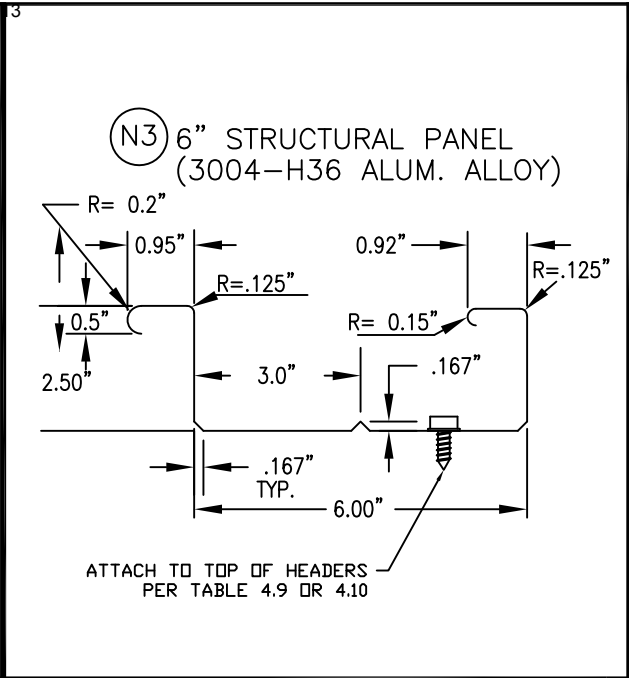
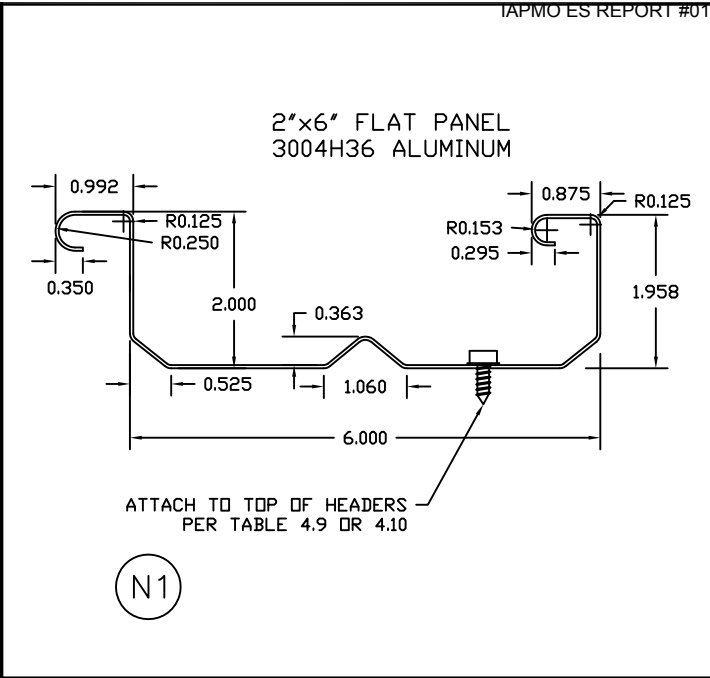


TABLE 6.7				5.5" Extruded Fascia (Detail L)				Alaskan Fascia (Detail K)				0.041"x3"x3" Cloverleaf (Detail W)				5.5" Extruded Fascia (Detail L)				Alaskan Fascia (Detail K)				0.041"x3"x3" Cloverleaf (Detail W)			
				Attached Structure		Freestanding or Multispan Units		Attached Structure		Freestanding or Multispan Units		Attached Structure		Freestanding or Multispan Units		Attached Structure		Freestanding or Multispan Units		Attached Structure		Freestanding or Multispan Units		Attached Structure		Freestanding or Multispan Units	
GROUND SNOW LOAD (PSF)	TRIB WIDTH (FT)	MAX POST SPACING ON SLAB (FT)	POST REQ'D FOR SLAB	MAX POST SPACING (FT)	MIN POST TYPE	FOOTER SIZE "d" (in)	MAX POST LENGTH 8' 10' 12' (in)	MAX POST SPACING (FT)	MIN POST TYPE	FOOTER SIZE "d" (in)	MAX POST LENGTH 8' 10' 12' (in)	MAX POST SPACING (FT)	MIN POST TYPE	FOOTER SIZE "d" (in)	MAX POST LENGTH 8' 10' 12' (in)	MAX POST SPACING (FT)	MIN POST TYPE	FOOTER SIZE "d" (in)	MAX POST LENGTH 8' 10' 12' (in)	MAX POST SPACING (FT)	MIN POST TYPE	FOOTER SIZE "d" (in)	MAX POST LENGTH 8' 10' 12' (in)				
105 MPH EXPOSURE C																											
10 LIVE	3	3	22'-8"	A	10'-8"	A	23	24	25	27	27	13'-1"	A	25	25	27	28	10'-10"	A	23	23	25	26	26			
	3.5	3.5	19'-5"	A	10'-4"	A	24	24	25	27	27	12'-5"	A	26	26	26	28	10'-3"	A	24	24	25	26	26			
	4	4	17'-0"	A	10'-0"	A	25	25	25	27	27	11'-11"	A	26	26	26	27	9'-10"	A	25	25	25	26	26			
	4.5	4.5	15'-1"	A	9'-7"	A	26	26	26	26	26	11'-5"	A	27	27	27	27	9'-5"	A	25	25	25	26	26			
	5	5	13'-7"	A	9'-5"	A	26	26	26	26	26	11'-1"	A	28	28	28	28	9'-1"	A	26	26	26	26	26			
	5.5	5.5	12'-4"	A	9'-2"	A	27	27	27	27	27	10'-8"	A	28	28	28	28	8'-10"	A	27	27	27	27	27			
	6	6	11'-4"	A	8'-11"	A	27	27	27	27	27	10'-5"	A	29	29	29	29	8'-7"	A	27	27	27	27	27			
	6.5	6.5	10'-5"	A	8'-8"	A	28	28	28	28	28	10'-1"	A	29	29	29	29	8'-4"	A	28	28	28	28	28			
	7	7	9'-8"	A	8'-5"	A	28	28	28	28	28	9'-10"	B	30	30	30	30	8'-2"	A	28	28	28	28	28			
	7.5	7.5	9'-1"	A	8'-3"	A	29	29	29	29	29	9'-8"	B	30	30	30	30	7'-11"	A	28	28	28	28	28			
	8	8	8'-6"	A	8'-1"	A	29	29	29	29	29	9'-5"	B	31	31	31	31	7'-8"	A	29	29	29	29	29			
	8.5	8.5	8'-0"	A	7'-11"	A	30	30	30	30	30	9'-3"	B	31	31	31	31	7'-5"	A	29	29	29	29	29			
	9	9	7'-6"	A	7'-9"	B	30	30	30	30	30	9'-1"	B	32	32	32	32	7'-2"	A	29	29	29	29	29			
9.5	9.5	7'-2"	A	7'-7"	B	30	30	30	30	30	8'-11"	B	32	32	32	32	7'-0"	A	30	30	30	30	30				
10	10	6'-9"	A	7'-6"	B	31	31	31	31	31	8'-9"	B	32	32	32	32	6'-10"	B	30	30	30	30	30				
11	11	6'-2"	A	7'-3"	B	31	31	31	31	31	8'-6"	C	33	33	33	33	6'-6"	B	30	30	30	30	30				
12	12	5'-8"	A	6'-11"	B	32	32	32	32	32	8'-3"	C	34	34	34	34	6'-3"	B	31	31	31	31	31				
13	13	5'-2"	A	6'-8"	B	32	32	32	32	32	8'-0"	C	34	34	34	34	6'-0"	B	31	31	31	31	31				
110 MPH EXPOSURE C																											
10 LIVE	3	3	22'-8"	A	10'-6"	A	24	24	26	27	27	12'-8"	A	25	25	27	28	10'-6"	A	24	24	25	27	27			
	3.5	3.5	19'-5"	A	10'-1"	A	25	25	26	27	27	12'-1"	A	26	26	27	28	9'-11"	A	25	25	25	27	27			
	4	4																									



4/27/2009



FOUR #14 SD SCREWS EACH
SIDE FOR FOOTINGS UP TO d=28"
TWO 3/8" BOLTS FOR 90 MPH EXP B ON SLAB
THREE 3/8" BOLTS FOR 90 MPH EXP C ON SLAB

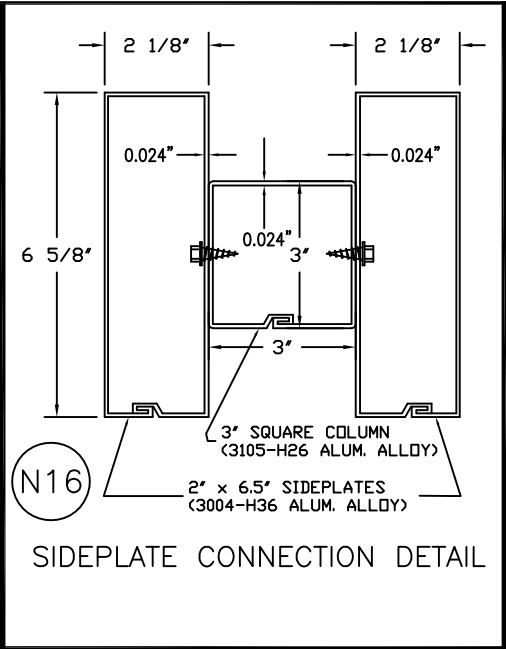
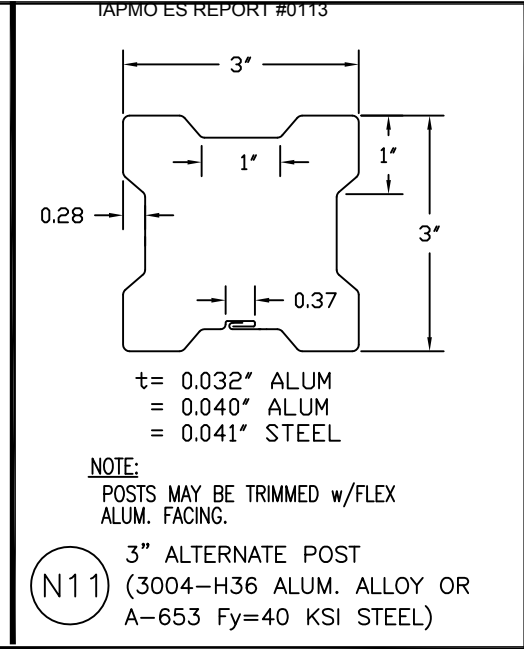
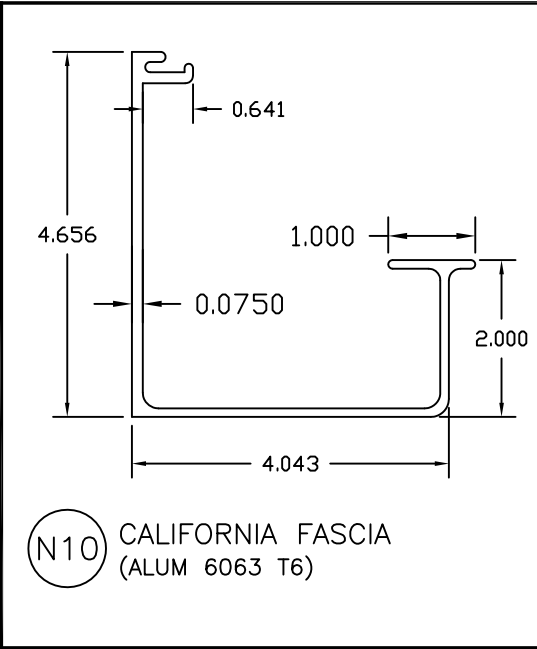
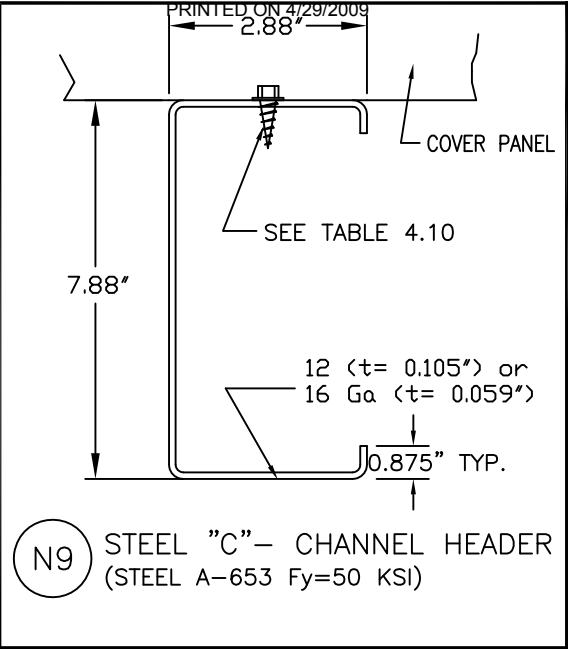
0.60"
1.5"
2.9"
1.5"
2.9"
3"
POST
SEE NOTE
AT RIGHT

3"X 3"
2"X 6 1/2"
SIDEPLATES
ALUM. FOOTING
BRACKET
SEE GENERAL NOTE #11
MAX FOOTING SIZE
d =34"
SLAB OR FOOTING

N8 BRACKET FOR CONNECTING POST TO SLAB
OR FOOTING (6063-T6 ALUM ALLOY)
SINGLE SPAN ATTACHED UNITS ONLY

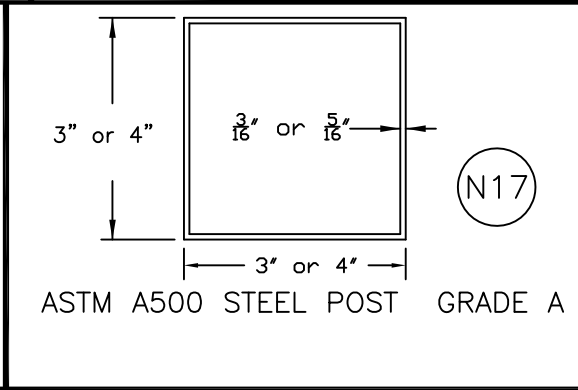
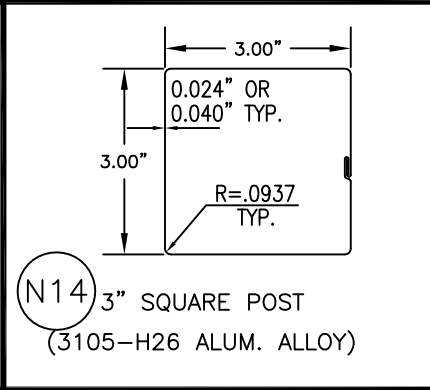
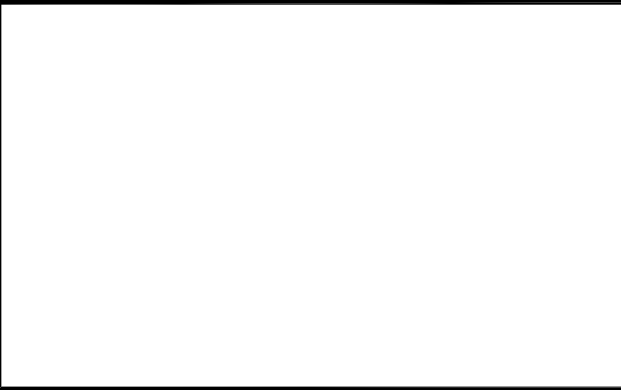
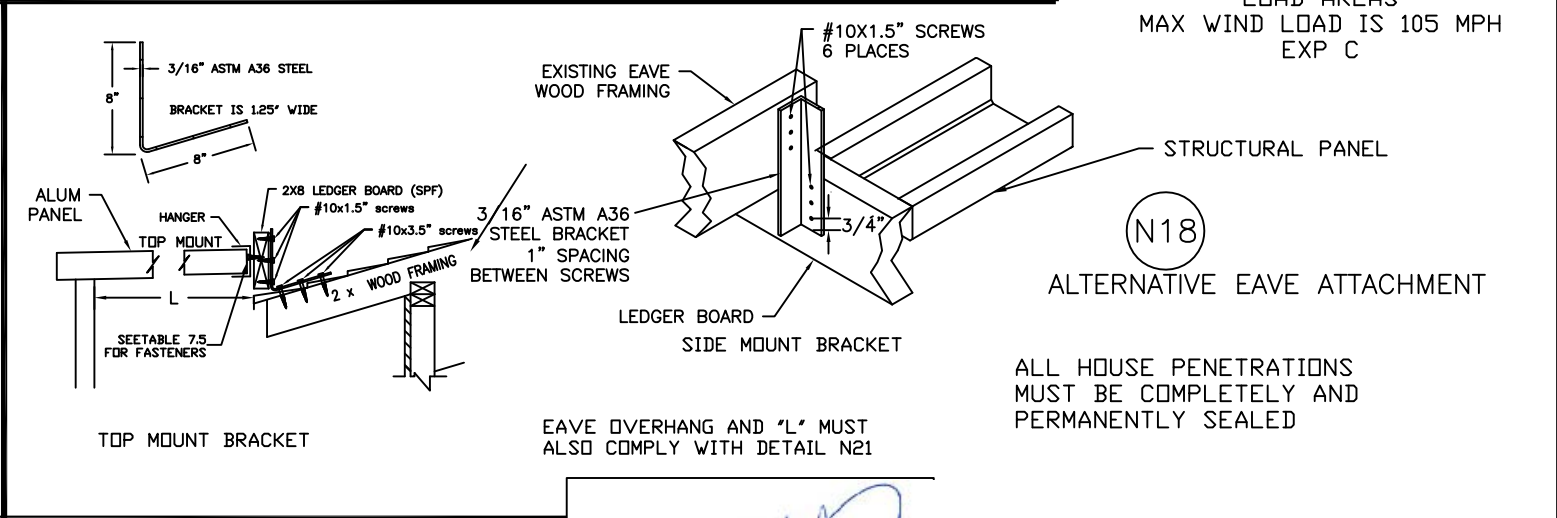
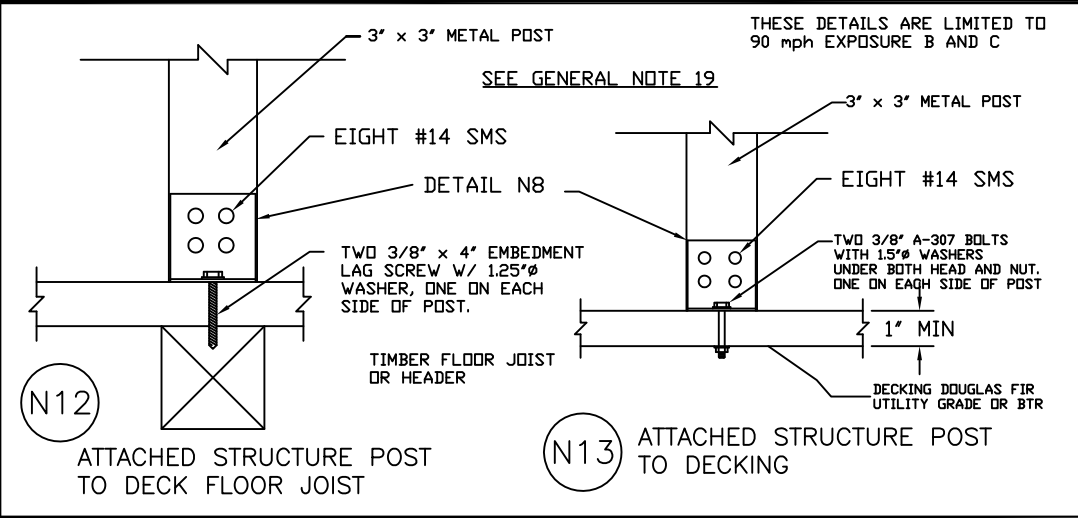
4/27/2009
Engineer's Stamp

		5208 TENNYSON PARKWAY SUITE 100 PLANO, TEXAS 75024	
DRAWN BY: BEJ/CP	TYPE:		
SCALE: NTS	NAME: Component Parts & Connection Details for Newport Patio Structures		
DATE:	FILE#: NP01-2006	SHEET: 1 of 4	



MAX "L" FOR TOP OR SIDE MOUNT		
TRUSS/RAFTER		
Live Load	O/C SPACING	
	16" o/c	24" o/c
10	21'-6"	14'-4"
20	11'-3"	7'-6"

NOT ALLOWED IN SNOW
LOAD AREAS
MAX WIND LOAD IS 105 MPH
EXP C

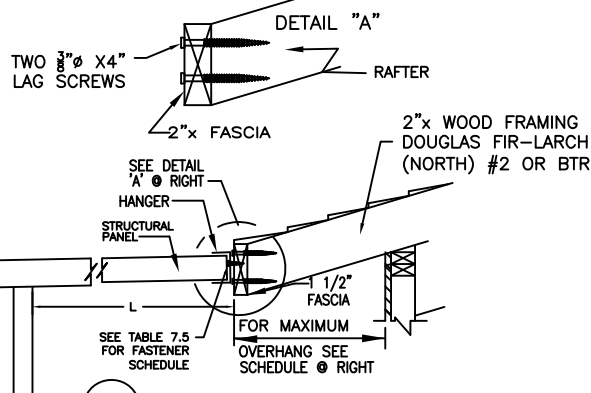


REGISTERED PROFESSIONAL ENGINEER
CARL PUTNAM
C 68139
EXP. 6/30/2009
CIVIL
STATE OF CALIFORNIA

4/27/2009
Engineer's Stamp

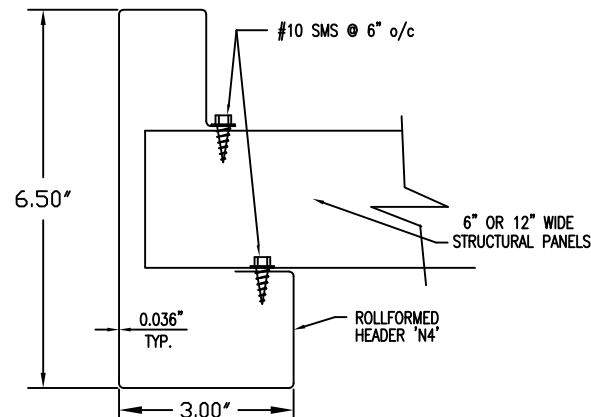
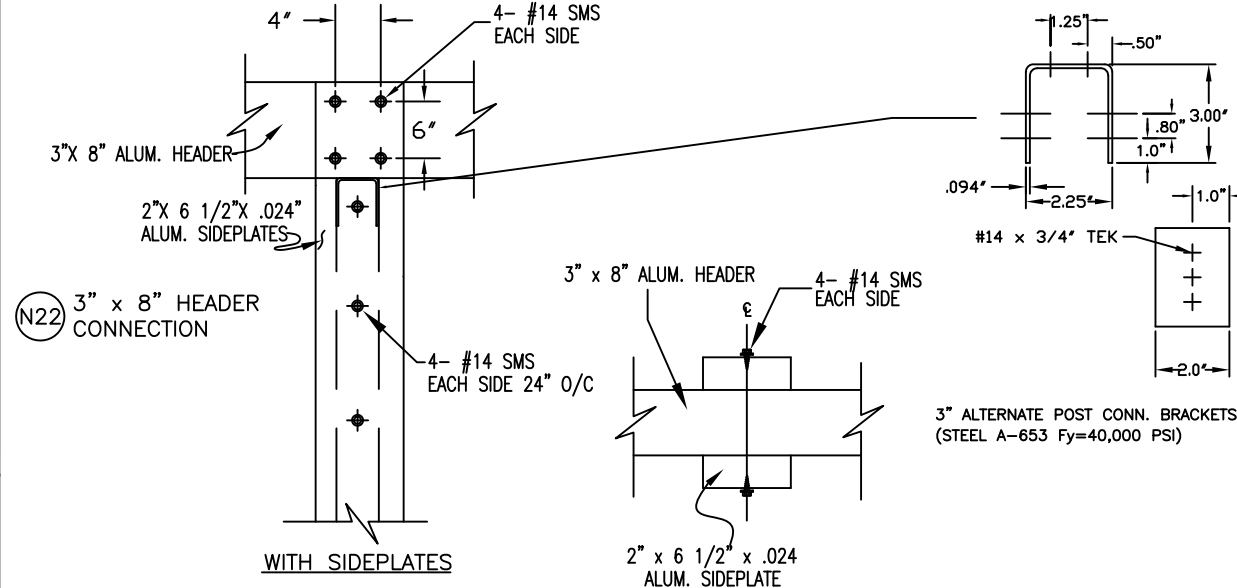
Amerimax BUILDING PRODUCTS, INC. 5208 TENNYSON PARKWAY
SUITE 100
PLANO, TEXAS 75024

DESIGNED BY: BEJ/CP	TYPE:
SCALE: NTS	NAME: Component Parts & Connection Details for Newport Patio Structures
DATE:	FILE#: NP02-2006
	SHEET: 2 of 4

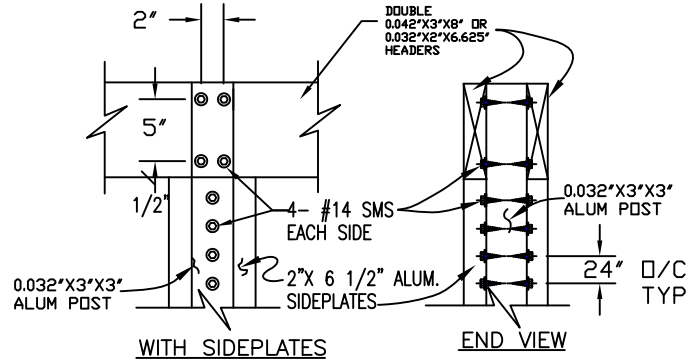


(N21) ALTERNATE EAVE ATTACHMENT

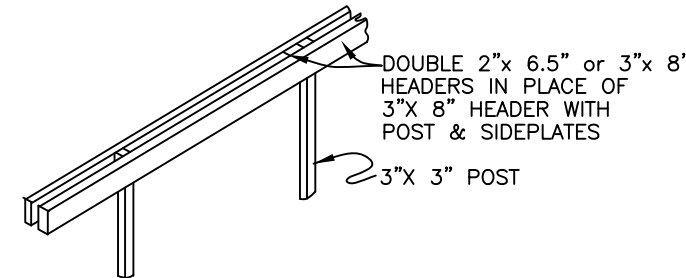
Live/Snow Load Solid Cover Wind	RAFTER SIZE (24" O/C)	MAX DISTANCE TO FIRST ROW OF POSTS "L"				
		12"	18"	24"	30"	36"
10 psf 90 MPH Exp B	2x4	15'-8"	8'-11"	5'-6"	2'-6"	0'-2"
	2x6	22'-0"	22'-0"	17'-4"	13'-8"	9'-6"
	2x8	22'-0"	22'-0"	22'-0"	22'-0"	22'-0"
10 psf 90 MPH Exp C	2x4	11'-2"	6'-7"	4'-1"	2'-4"	0'-2"
	2x6	22'-0"	22'-0"	15'-1"	10'-1"	7'-2"
	2x8	22'-0"	22'-0"	22'-0"	22'-0"	22'-0"
20 psf 105 MPH Exp B	2x4	8'-6"	4'-9"	2'-8"	1'-3"	0'-1"
	2x6	12'-4"	12'-4"	9'-8"	6'-10"	4'-9"
	2x8	12'-4"	12'-4"	12'-4"	12'-4"	11'-6"
25 psf 105 MPH Exp C	2x4	6'-9"	3'-9"	2'-1"	0'-10"	0'-0"
	2x6	13'-7"	11'-3"	7'-8"	5'-4"	3'-8"
	2x8	13'-7"	13'-7"	13'-7"	11'-10"	9'-1"
30 psf 110 MPH Exp C	2x4	5'-6"	3'-0"	1'-6"	0'-4"	0'-0"
	2x6	11'-1"	9'-2"	6'-1"	4'-1"	2'-8"
	2x8	11'-4"	11'-4"	11'-4"	9'-6"	7'-1"
40 psf	2x4	3'-10"	1'-10"	0'-8"	0'-0"	0'-0"
	2x6	7'-10"	6'-7"	4'-2"	2'-7"	1'-4"
	2x8	8'-4"	8'-4"	8'-4"	6'-7"	4'-8"
60 psf	2x4	2'-3"	0'-10"	0'-0"	0'-0"	0'-0"
	2x6	4'-8"	3'-10"	2'-2"	1'-0"	0'-1"
	2x8	5'-9"	5'-9"	5'-3"	3'-8"	5'-9"



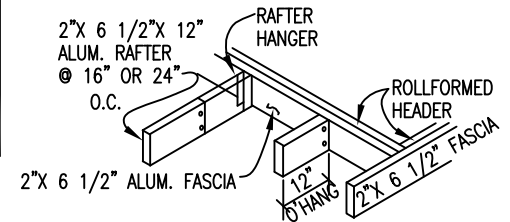
(N23) ROLLFORMED HEADER 'N4' CONN. DETAILS TO STRUCTURAL PANELS



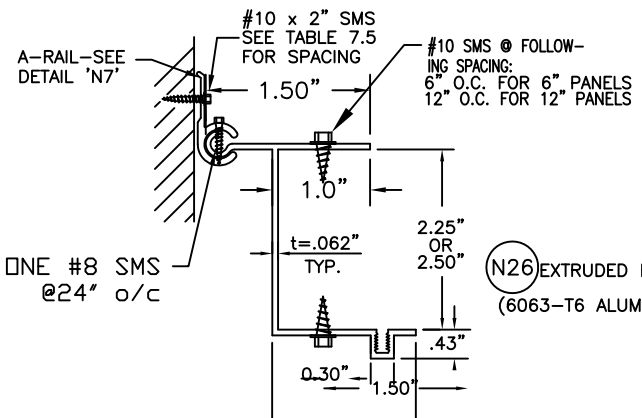
(N24) DOUBLE ALUM HEADER CONNECTION



(N25) DOUBLE 2" x 6.5" HEADERS or DOUBLE 3" x 8" HEADERS

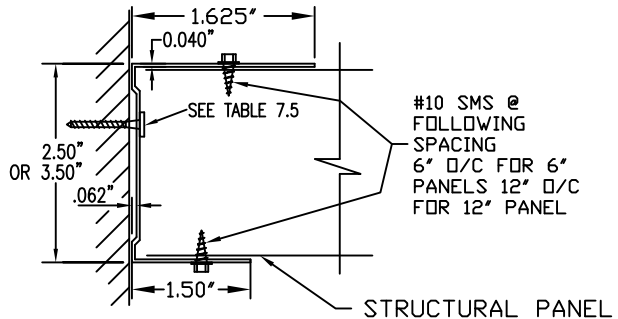


(N28) ALTERNATE-DECORATIVE FASCIA TRIM

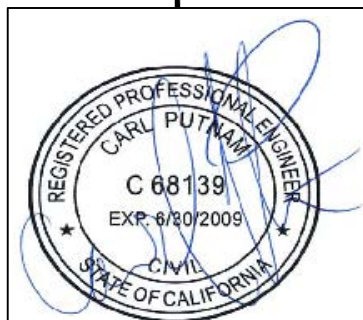


(N26) EXTRUDED HANGER (6063-T6 ALUM. ALLOY)

SEE TABLE 7.5 NOTE #6 FOR END FASTENING REQUIREMENTS



(N27) ROLLFORMED HANGER (3004-H36 ALUM. ALLOY)

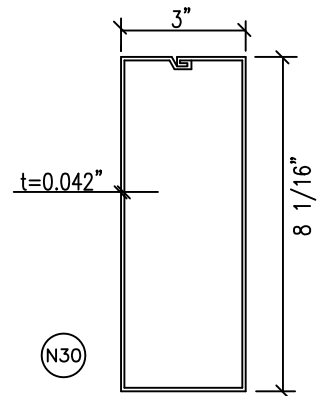
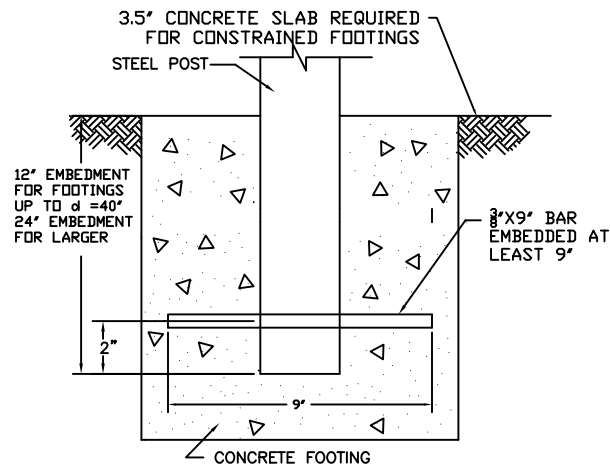


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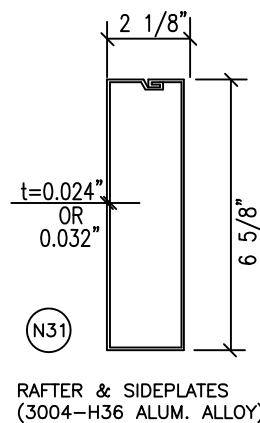
DRAWN BY: BEJ/CP TYPE: NAME: Component Parts & Connection Details for Newport Patio Structures

SCALE: NTS DATE: NP03-2006 SHEET: 3 of 4

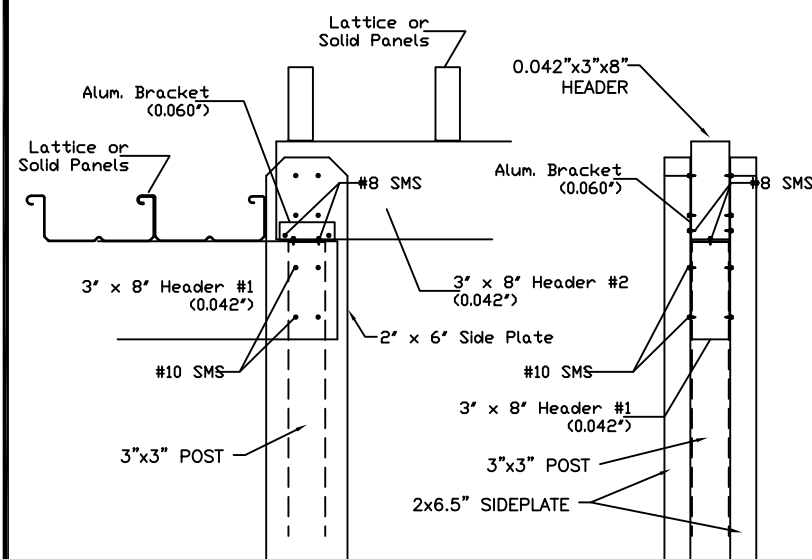


(N30) HEADER
(3004-H36 ALUM. ALLOY)

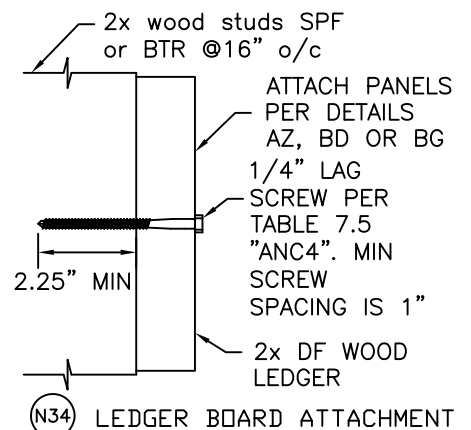
(N29) FREESTANDING OR ATTACHED
POST/FOOTING CONNECTION



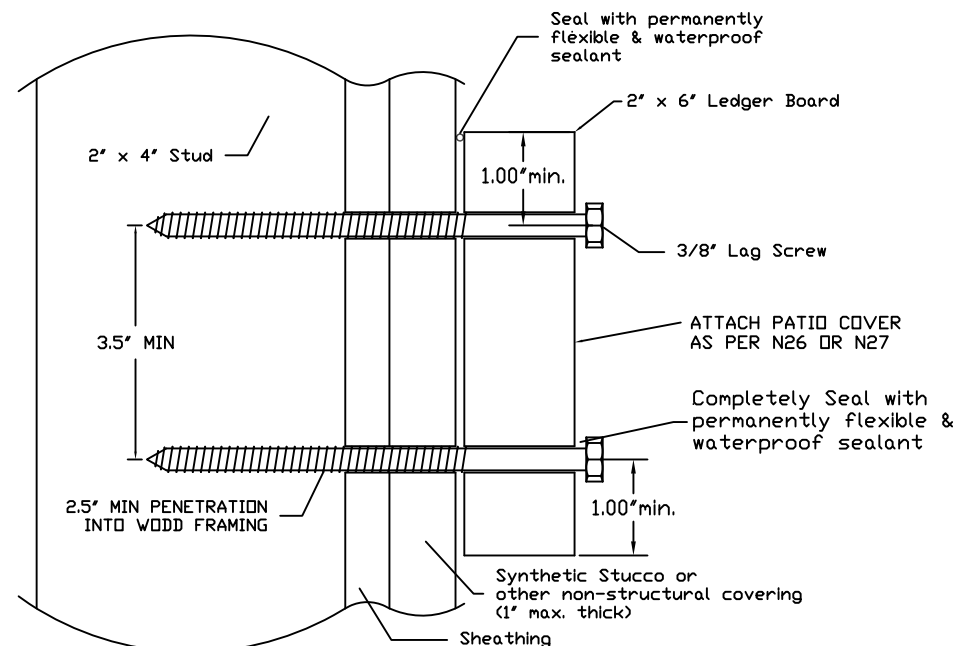
(N31) RAFTER & SIDEPLATES
(3004-H36 ALUM. ALLOY)



(N32) ALTERNATIVE SPLICE FOR ATTACHED UNITS

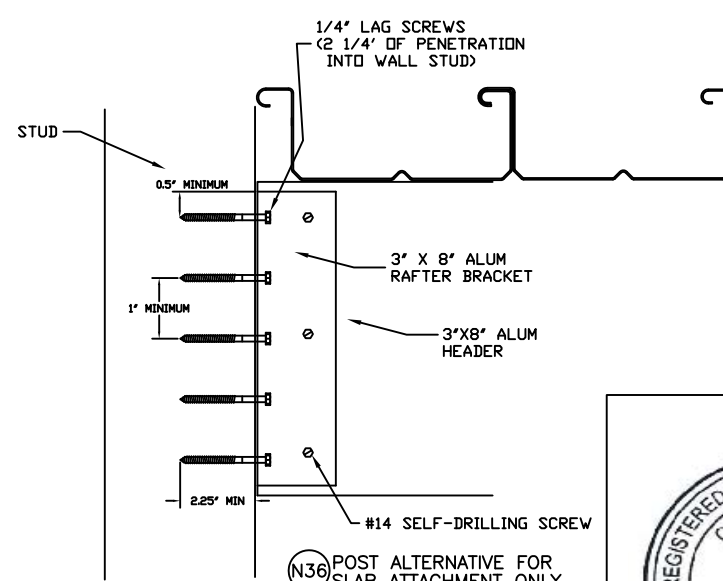


(N34) LEDGER BOARD ATTACHMENT

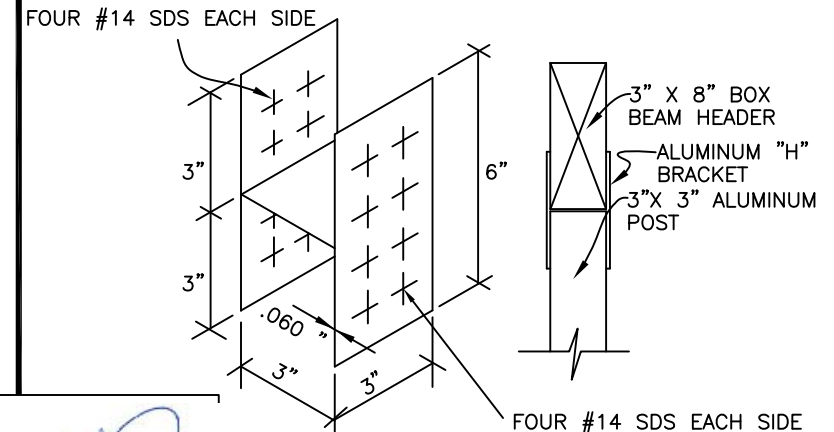


(N33) STUCCO ATTACHMENT DETAIL
WITH LEDGER BOARD

SEE ALLOWABLE DISTANCE TO FIRST
ROW OF POSTS IN TABLE 7.7



(N36) POST ALTERNATIVE FOR
SLAB ATTACHMENT ONLY



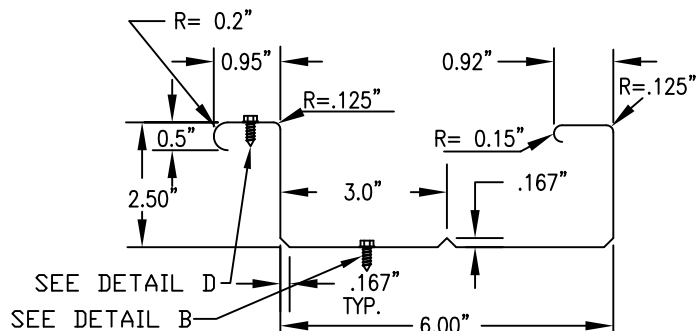
(N35) ALUMINUM 'H' BRACKET FOR
CONNECTING POST TO HEADER
(6063-T6 ALUM. ALLOY)



4/27/2009

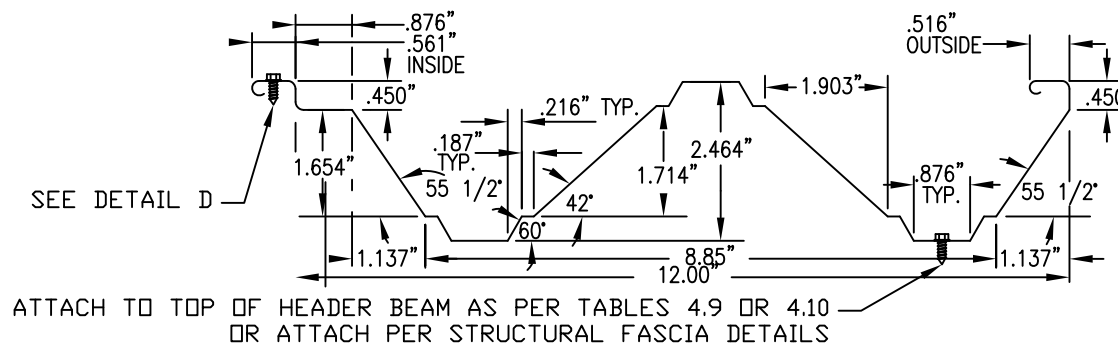
Engineer's Stamp

		5208 TENNYSON PARKWAY SUITE 100 PLANO, TEXAS 75024	
DRAWN BY:	BEJ/CP	TYPE:	
SCALE:	NTS	NAME:	Component Parts & Connection Details for Newport Patio Structures
DATE:		FILE#:	NP04-2006
		SHEET:	4 of 4

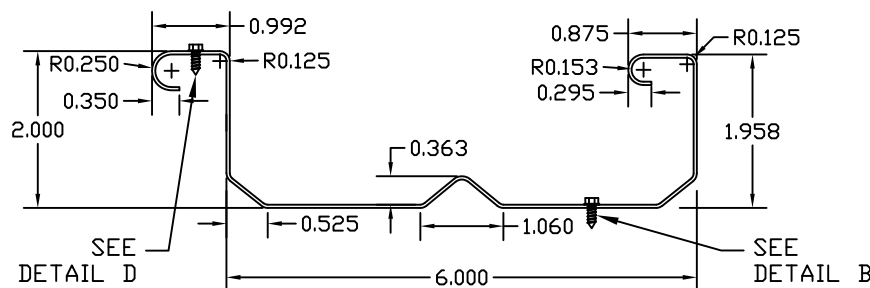


6" FLAT PAN

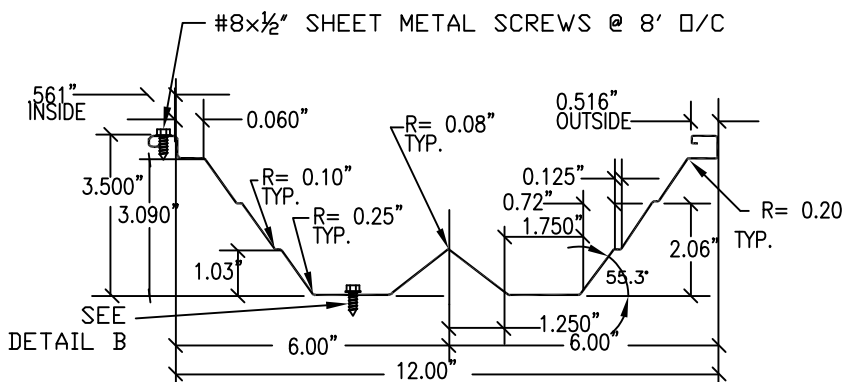
(A) 6" STRUCTURAL PANEL
(3004-H36 ALUM. ALLOY)



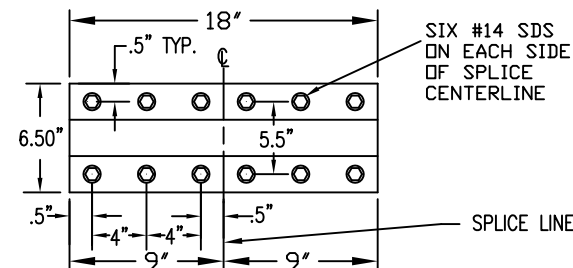
(B) 12" STRUCTURAL PANEL (3004-H36 ALUM. ALLOY)



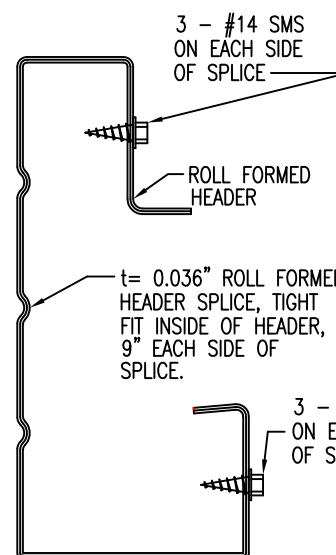
(C) 2"x6" FLAT PANEL
3004H36 ALUMINUM



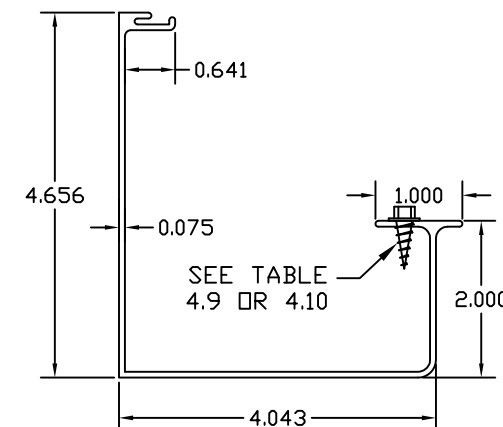
(D) 3 1/2" X 12" STRUCTURAL PANEL
(3004-H36 ALUM. ALLOY)



(E) 6 1/2" ROLLFORMED FASCIA 3004H36 ALLOY



(F) ROLLFORMED HEADER SPLICE
(3004-H36 ALUM. ALLOY)



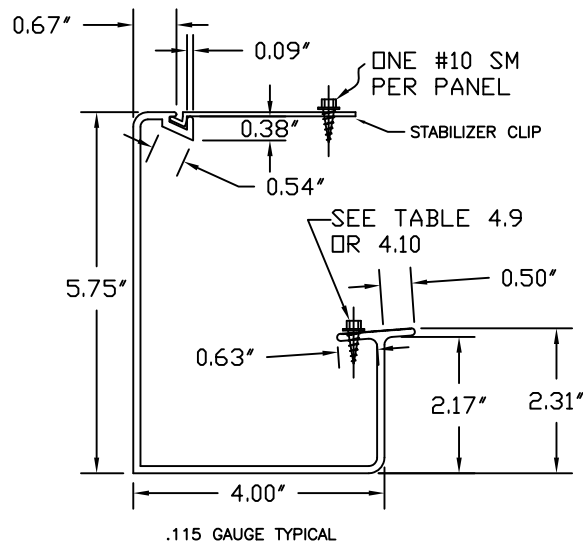
(G) CALIFORNIA FASCIA
(6063-T6 ALUM. ALLOY)



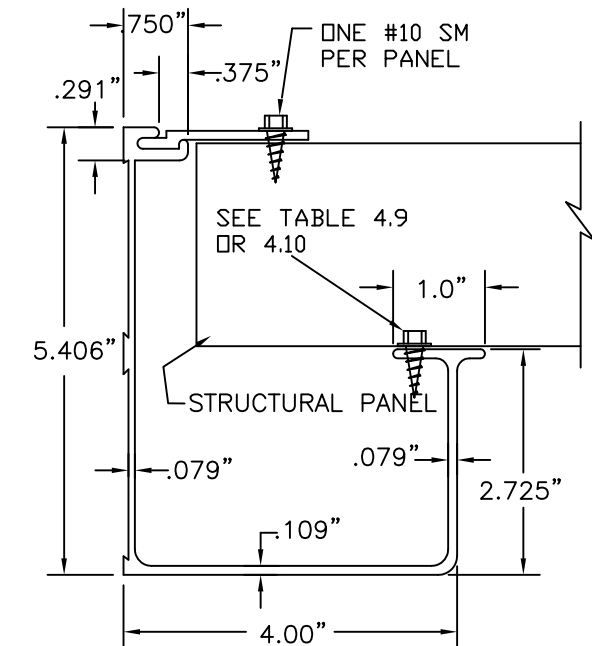
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SUITE 100
PLANO, TEXAS 75024

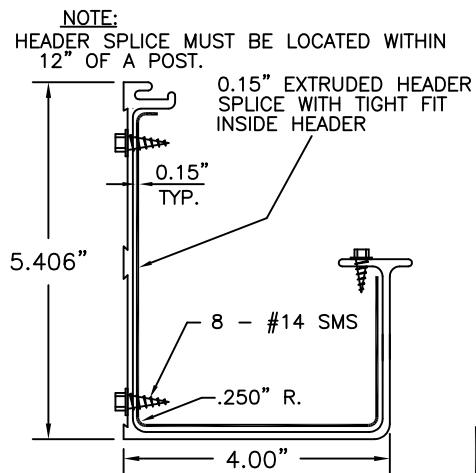
DRAWN BY: BEJ/CP	TYPE:
SCALE: NTS	NAME: Component Parts & Connection Details
DATE:	FILE#: CD01-2006
	SHEET: 1 of 9



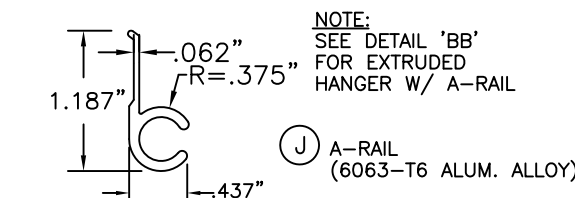
(H) CLASSIC FASCIA
W/ STABLIZER CLIP
(6061-T6 Alum. Alloy)



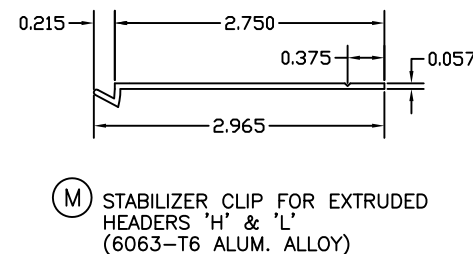
(K) ALASKAN HEADER
(6061-T6 ALUM. ALLOY)



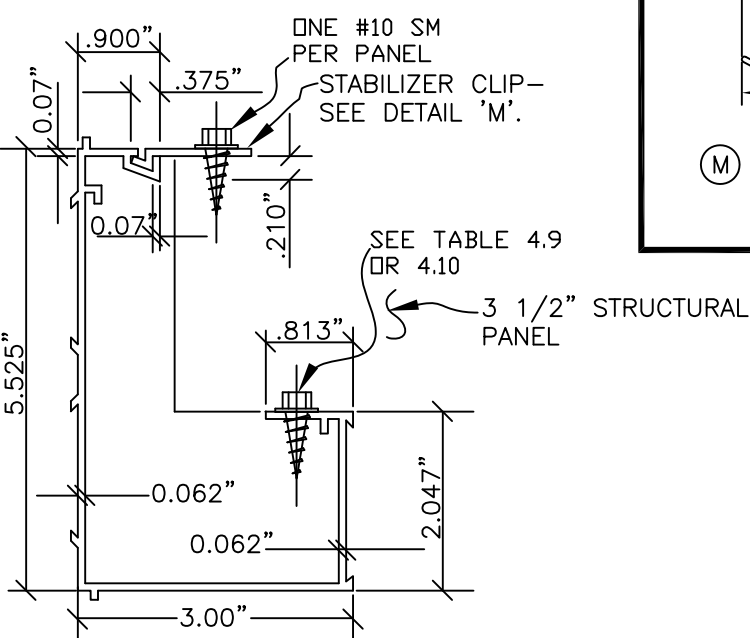
(I) ALASKAN HEADER SPLICE
(6061-T6 ALUM. ALLOY)



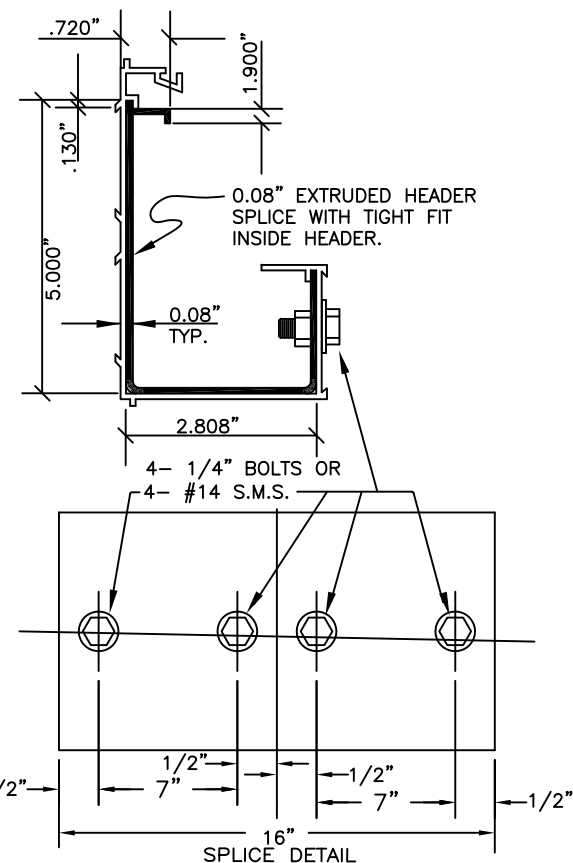
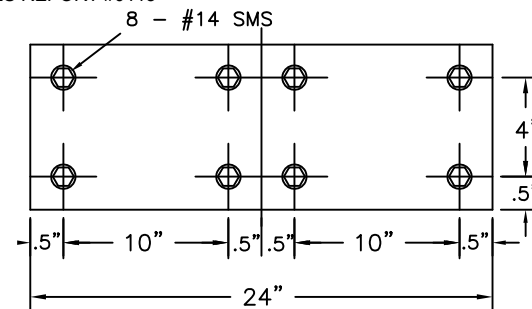
(J) A-RAIL
(6063-T6 ALUM. ALLOY)



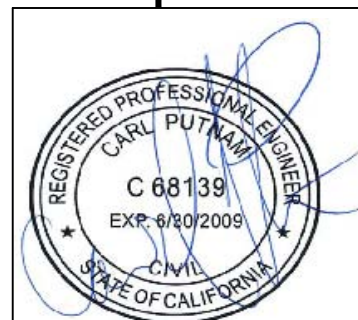
(M) STABILIZER CLIP FOR EXTRUDED
HEADERS 'H' & 'L'
(6063-T6 ALUM. ALLOY)



(L) 5 1/2" EXTRUDED HEADER
(6061-T6 ALUM. ALLOY)



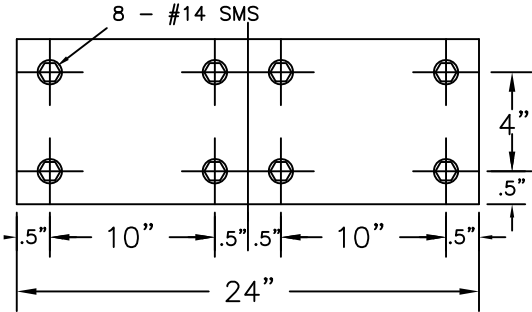
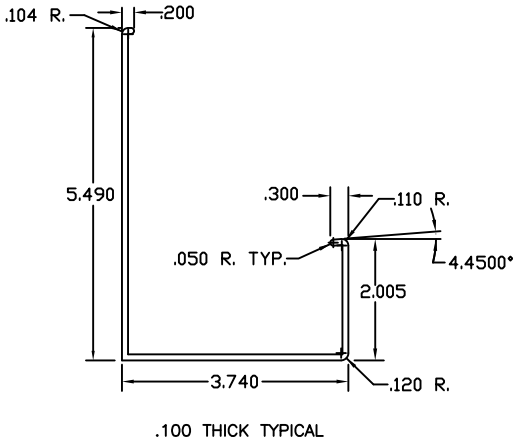
(N) 5 1/2" EXTRUDED HEADER SPLICE
(6061-T6 ALUM. ALLOY)



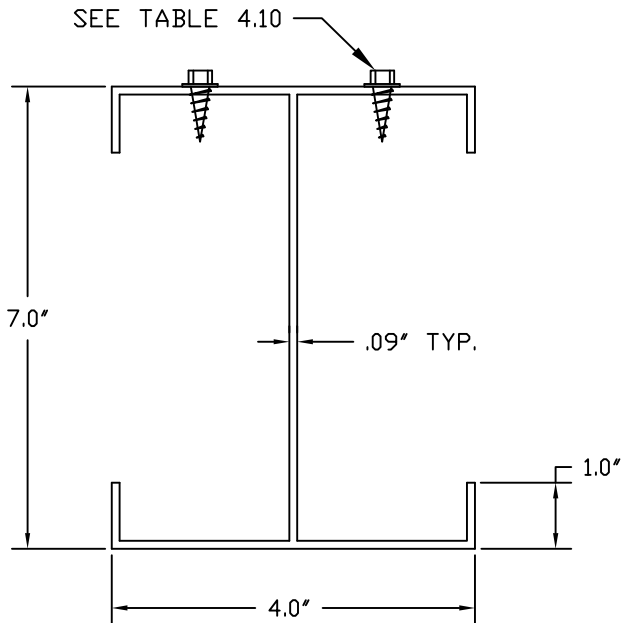
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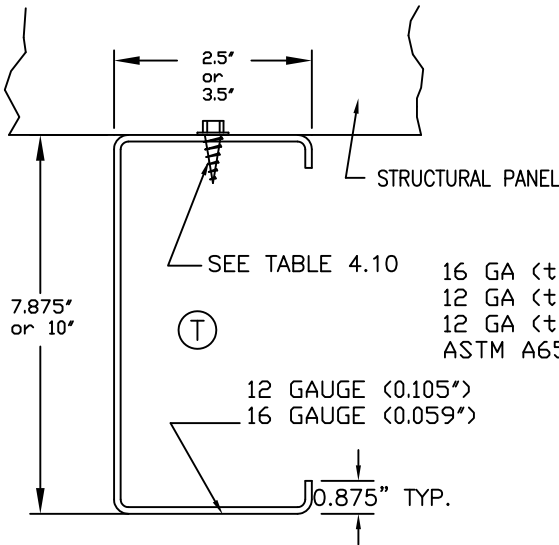
		5208 TENNYSON PARKWAY SUITE 100 PLANO TEXAS 75024	
DRAWN BY:	BEJ/CP	TYPE:	
SCALE:	NTS	NAME:	Component Parts & Connection Details
DATE:		FILE#:	CD02-2006
		SHEET:	2 of 9



(P) CLASSIC ALASKAN HEADER SPLICE
(6061-T6 ALUM. ALLOY)



(Q) 7" x 4" I BEAM HEADER
(6061-T6 ALUM. ALLOY)



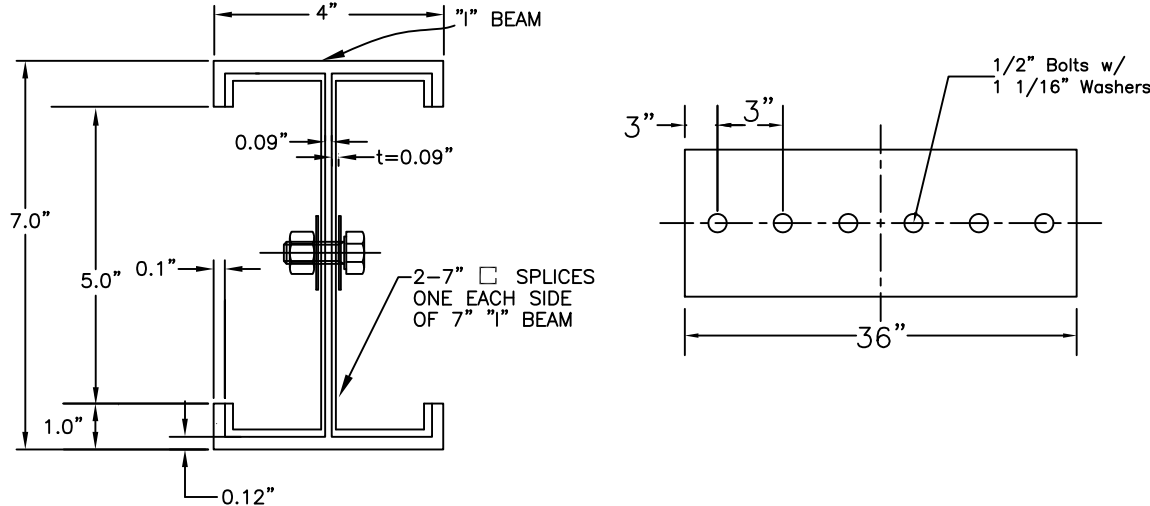
- SEE TABLE 4.10
- 16 GA (t=0.059") 3"x8" STEEL HEADER
 - 12 GA (t=0.105") 3"x8" STEEL HEADER
 - 12 GA (t=0.105") 3.5"x10" STEEL HEADER
- ASTM A653 GRADE 50
- (T)
- 12 GAUGE (0.105")
 - 16 GAUGE (0.059")



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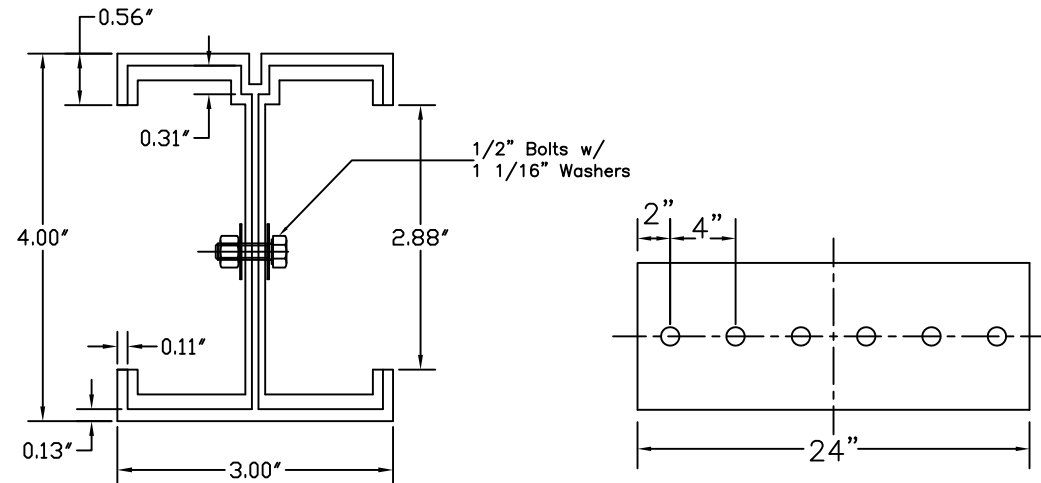
 **Amerimax**
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SUITE 100
PLANO, TEXAS 75024

DRAWN BY: BEJ/CP	TYPE:
SCALE: NTS	NAME: Component Parts & Connection Details
DATE:	FILE#: CD03-2006
	SHEET: 3 of 9

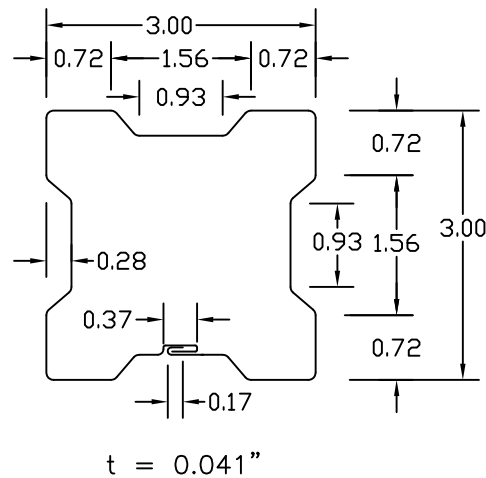


7" X 4" I-BEAM SPLICE
(6061-T6 ALUM. ALLOY)

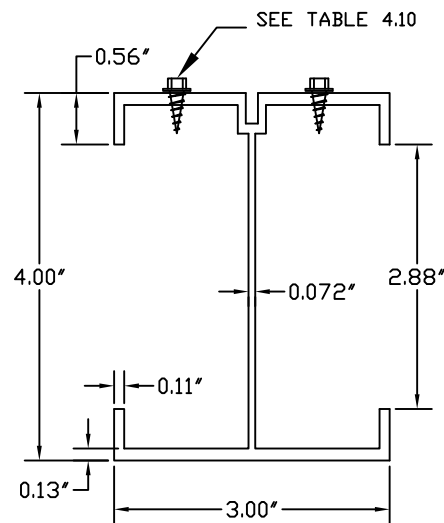
Ⓢ 7" X 4" ALUM. I-BEAM FULL STRENGTH SPLICE BOLT LAYOUT



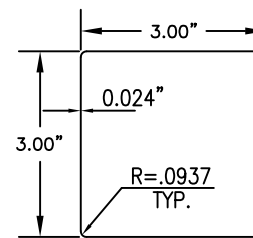
ⓧ 4" X 3" ALUM. I-BEAM FULL STRENGTH SPLICE BOLT LAYOUT



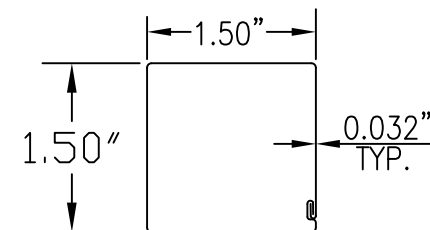
Ⓦ 3" X 3" CLOVERLEAF HEADER
(A-653 Fy=40 KSI STEEL)



Ⓨ 4" X 3" ALUM. I-BEAM



Ⓩ 3" SQUARE POST
(3105-H26 ALUM. ALLOY)

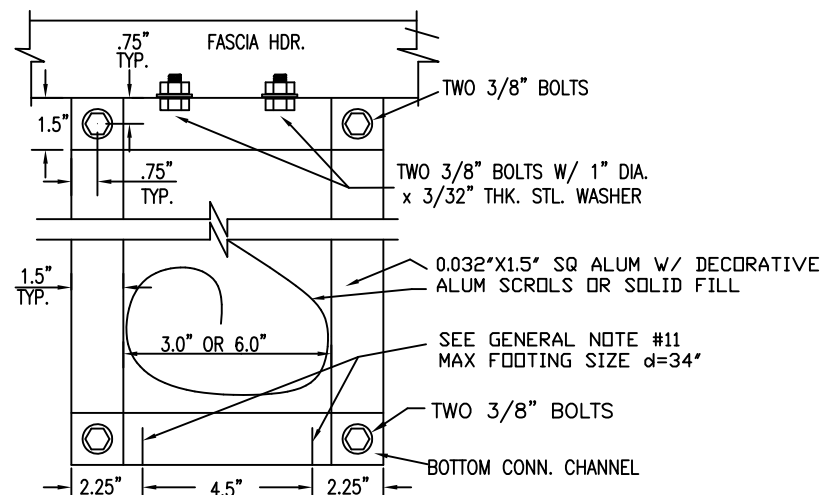


ⓐⓐ 1 1/2" SQUARE POST
(3105-H26 ALUM. ALLOY)

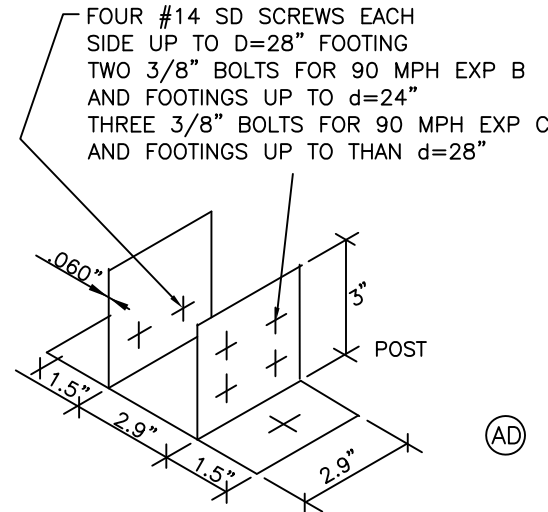


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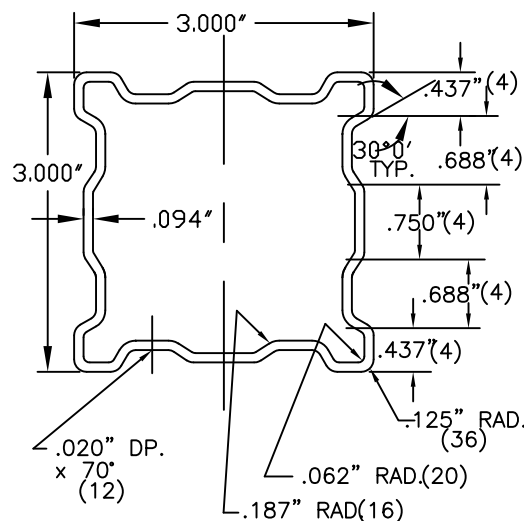
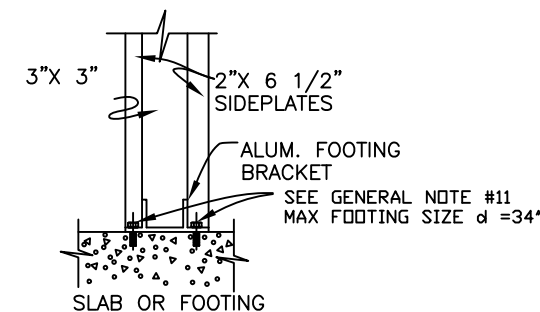
 Amerimax BUILDING PRODUCTS, INC.		5208 TENNYSON PARKWAY SUITE 100 PLANO, TEXAS 75024	
DRAWN BY: BEJ/CP	TYPE:		
SCALE: NTS	NAME: Component Parts & Connection Details		
DATE:	FILE#: CD04-2006	SHEET: 4 of 9	



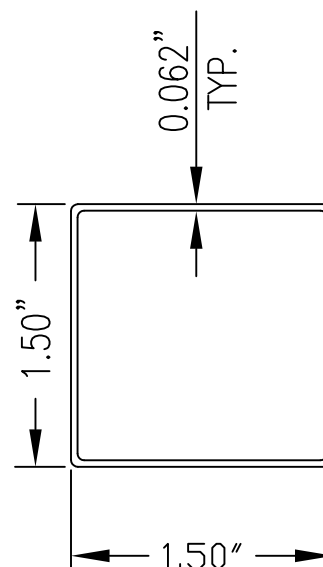
(AC) ROLL FORMED SCROLL POST CONNECTION TO CONCRETE SLAB OR FOOTING
BRACKET = 6063 T6 ALUM ALLOY
POST = DETAIL AA OR AF
ONLY USABLE FOR SINGLE SPAN ATTACHED UNITS



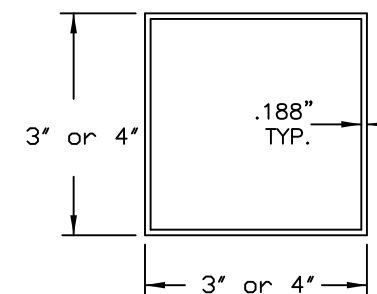
(AD) ALUMINUM FOOTING BRACKET FOR CONNECTING TO
CONCRETE SLAB OR FOOTING
6063 T6 ALUM ALLOY
ONLY USABLE FOR SINGLE SPAN ATTACHED UNITS



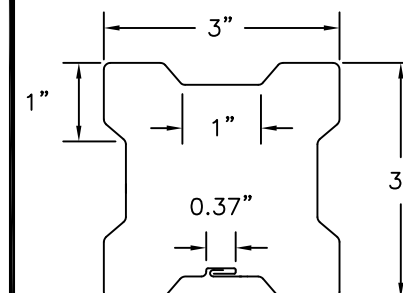
(AE) COLONIAL POSTS
(3\"/>



(AF) TWIN 1.5\"/>



(AG) 3\"/>



t (IN) = 0.032, 0.040 (ALUM)
= 0.041 (STEEL)

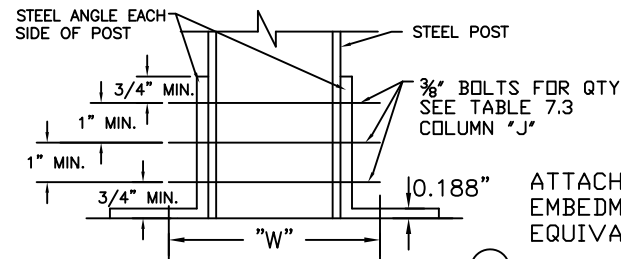
NOTE:
POSTS MAY BE TRIMMED w/FLEX
ALUM. FACING.

(AH) 3\"/>



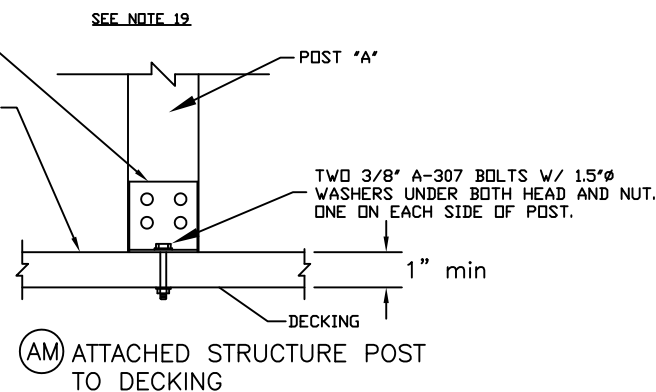
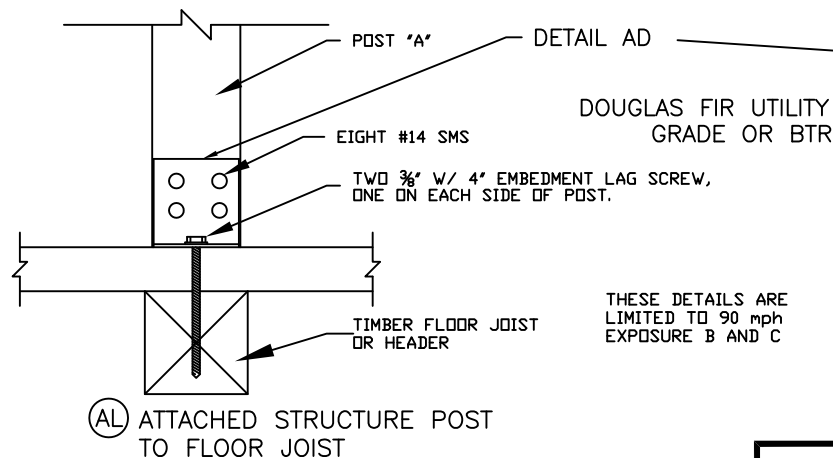
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		5208 TENNYSON PARKWAY SUITE 100 PLANO, TEXAS 75024	
DRAWN BY:	BEJ/CP	TYPE:	
SCALE:	NTS	NAME:	Component Parts & Connection Details
DATE:		FILE#:	CD05-2006
		SHEET:	5 of 9

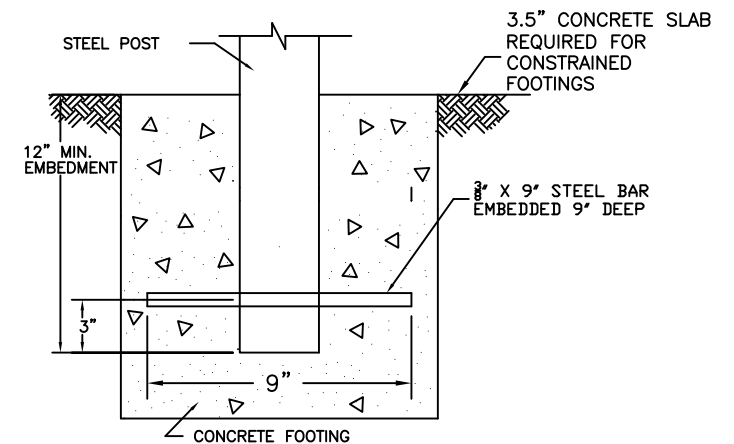


ATTACHED STRUCTURE POST TO FOOTING USING $\frac{3}{8}$ " W/ 2" EMBEDMENT STAINLESS STEEL HILT KWIK BOLT TZ OR EQUIVALENT. MAX FOOTING SIZE $d = 34$ "

(AI)

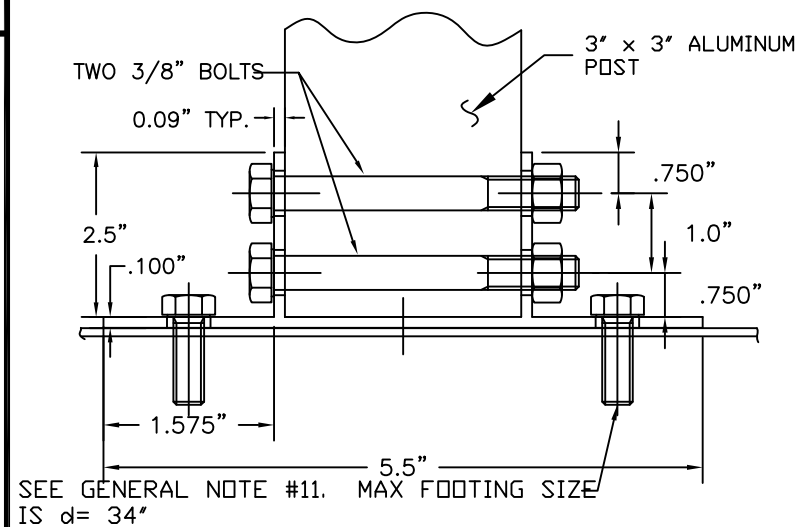


(AM) ATTACHED STRUCTURE POST TO DECKING



NOTE:

(AQ) FREESTANDING OR ATTACHED STRUCTURE COLUMN TO FOOTING CONNECTION DETAIL



SEE GENERAL NOTE #11. MAX FOOTING SIZE IS $d = 34$ "

(AP) POST TO FOOTING OR SLAB ATTACHMENT DETAIL SINGLE SPAN ATTACHED UNITS ONLY



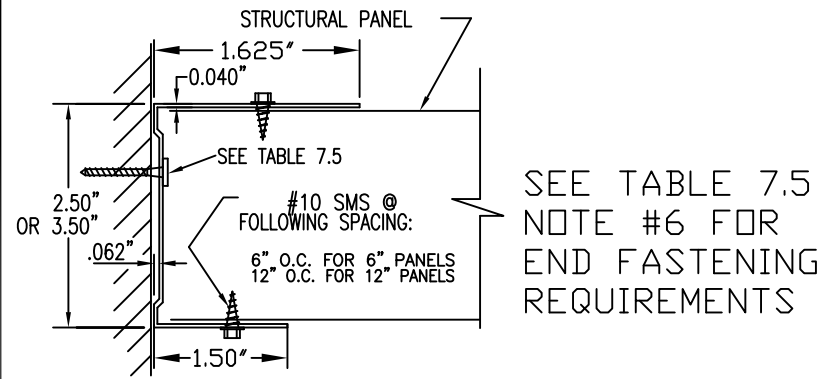
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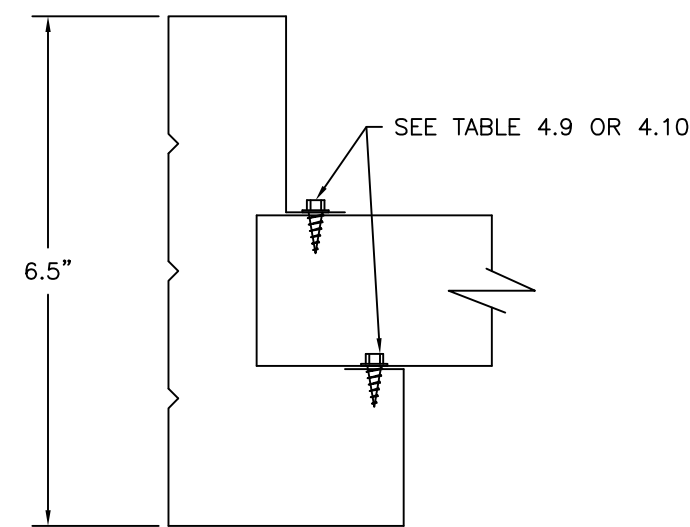
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SCALE:	NTS	NAME:	Component Parts & Connection Details
DATE:		FILE#:	CD06-2006
		SHEET:	6 of 9

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SCALE: NTS	NAME: Component Parts & Connection Details	
DATE:	FILE#: CD07-2006	SHEET: 7 of 9

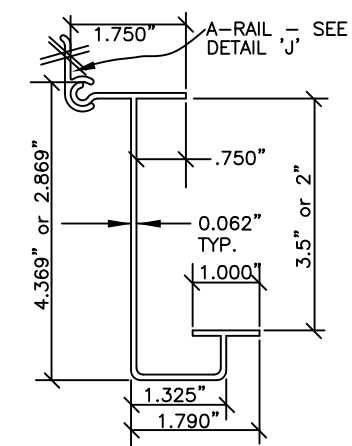


(AZ) ROLLFORMED HANGER
(3004-H36 ALUM. ALLOY)

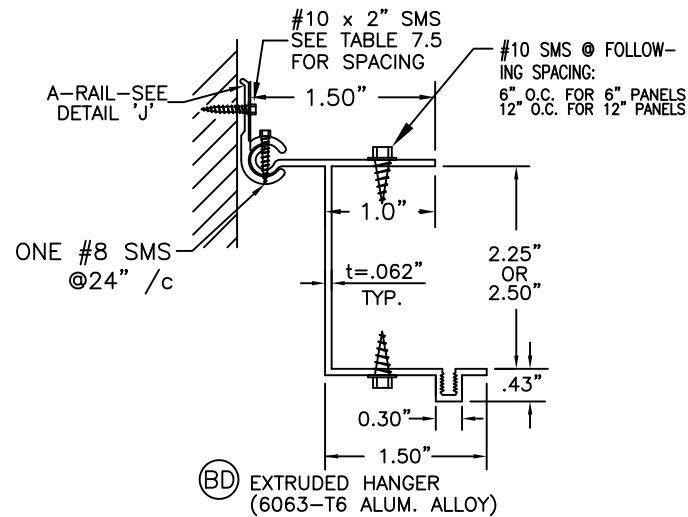
SEE TABLE 7.5
NOTE #6 FOR
END FASTENING
REQUIREMENTS



(BE) ROLLFORMED HEADER 'E' CONN.
DETAILS TO STRUCTURAL PANELS

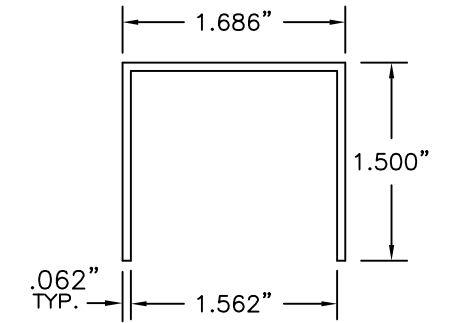


(BB) 3 1/2" "J" HANGER
(6063-T6 ALUM. ALLOY)

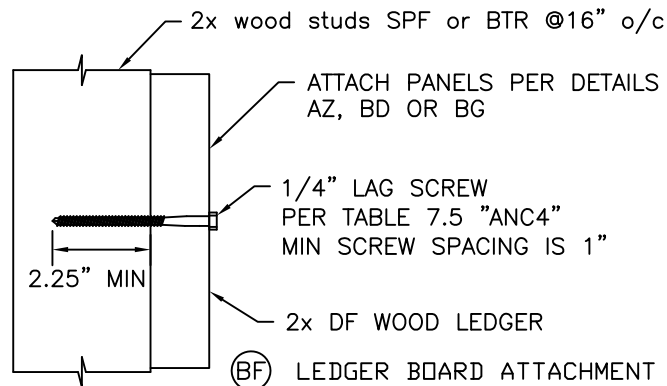


(BD) EXTRUDED HANGER
(6063-T6 ALUM. ALLOY)

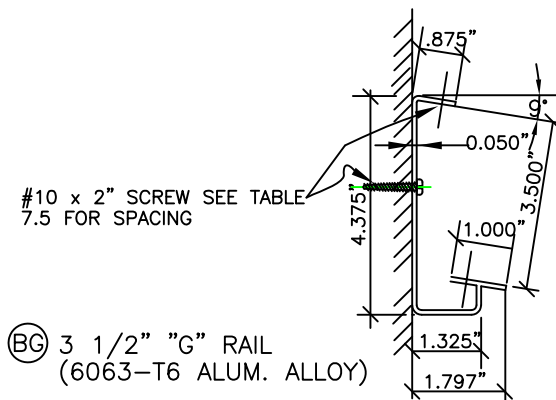
SEE TABLE 7.5 NOTE #6 FOR
END FASTENING
REQUIREMENTS



(BH) EXTRUDED CHANNEL CONNECTOR
(6063-T6 ALUM. ALLOY)



(BF) LEDGER BOARD ATTACHMENT



(BG) 3 1/2" "G" RAIL
(6063-T6 ALUM. ALLOY)

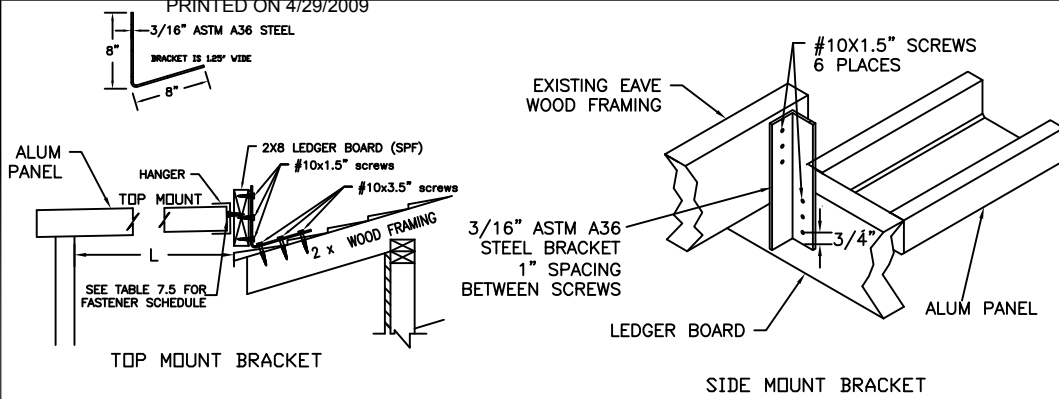


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BEJ/CP					
SCALE:	NAME:				
NTS	Component Parts & Connection Details				
DATE:	FILE#:			SHEET:	
	CD08-2006			8	of 9

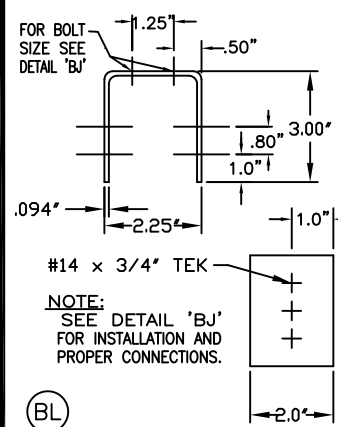
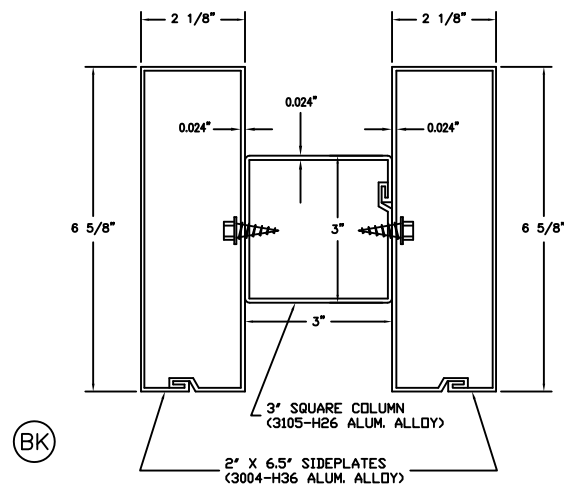


MAX "L" FOR TOP OR SIDE MOUNT		
Live Load (psf)	16" o/c	24" o/c
10	17'-11"	11'-11"
20	9'-4"	6'-3"

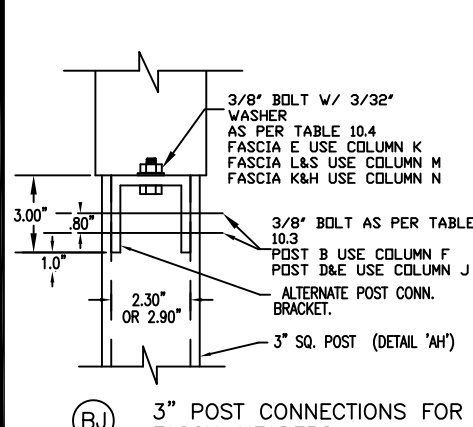
ALL HOUSE PENETRATIONS MUST BE COMPLETELY AND PERMANENTLY SEALED
NOT ALLOWED IN SNOW LOAD AREAS
MAX WIND SPEED IS 110 MPH EXP C

EAVE OVERHANG AND "L" MUST COMPLY WITH DETAIL BN ALSO

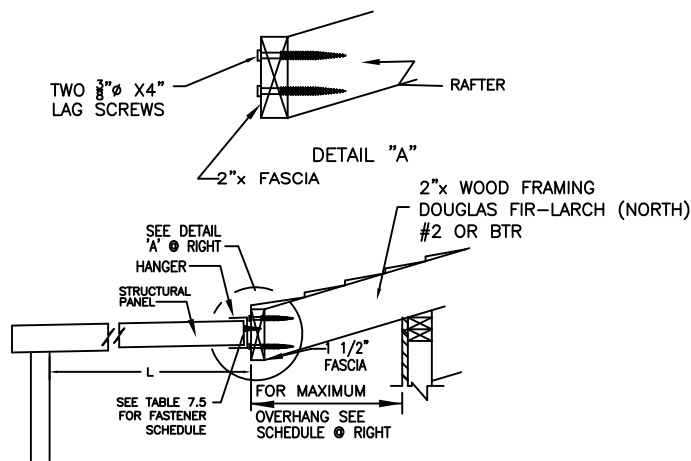
(BI) ALTERNATE EAVE ATTACHMENTS



(BL) 3" ALTERNATE POST CONN. BRACKETS (STEEL A-653 Fy=40,000 PSI)



(BJ) 3" POST CONNECTIONS FOR FASCIA HEADERS



(BN) ALTERNATE EAVE ATTACHMENT

Live/Snow Load Solid Cover Wind	RAFTER SIZE (24" O/C)	MAX DISTANCE TO FIRST ROW OF POSTS "L"				
		EAVE OVERHANG				
		12"	18"	24"	30"	36"
10 psf	2x4	15'-8"	8'-11"	5'-6"	2'-6"	0'-2"
90 MPH Exp B	2x6	22'-0"	22'-0"	17'-4"	13'-8"	9'-6"
	2x8	22'-0"	22'-0"	22'-0"	22'-0"	22'-0"
10 psf	2x4	11'-2"	6'-7"	4'-1"	2'-4"	0'-2"
90 MPH Exp C	2x6	22'-0"	22'-0"	15'-1"	10'-1"	7'-2"
	2x8	22'-0"	22'-0"	22'-0"	22'-0"	22'-0"
20 psf	2x4	8'-6"	4'-9"	2'-8"	1'-3"	0'-1"
105 MPH Exp B	2x6	12'-4"	12'-4"	9'-8"	6'-10"	4'-9"
	2x8	12'-4"	12'-4"	12'-4"	12'-4"	11'-6"
25 psf	2x4	6'-9"	3'-9"	2'-1"	0'-10"	0'-0"
105 MPH Exp C	2x6	13'-7"	11'-3"	7'-8"	5'-4"	3'-8"
	2x8	13'-7"	13'-7"	13'-7"	11'-10"	9'-1"
30 psf	2x4	5'-6"	3'-0"	1'-6"	0'-4"	0'-0"
110 MPH Exp C	2x6	11'-1"	9'-2"	6'-1"	4'-1"	2'-8"
	2x8	11'-4"	11'-4"	11'-4"	9'-6"	7'-1"
40 psf	2x4	3'-10"	1'-10"	0'-8"	0'-0"	0'-0"
	2x6	7'-10"	6'-7"	4'-2"	2'-7"	1'-4"
	2x8	8'-4"	8'-4"	8'-4"	6'-7"	4'-8"
60 psf	2x4	2'-3"	0'-10"	0'-0"	0'-0"	0'-0"
	2x6	4'-8"	3'-10"	2'-2"	1'-0"	0'-1"
	2x8	5'-9"	5'-9"	5'-3"	3'-8"	5'-9"



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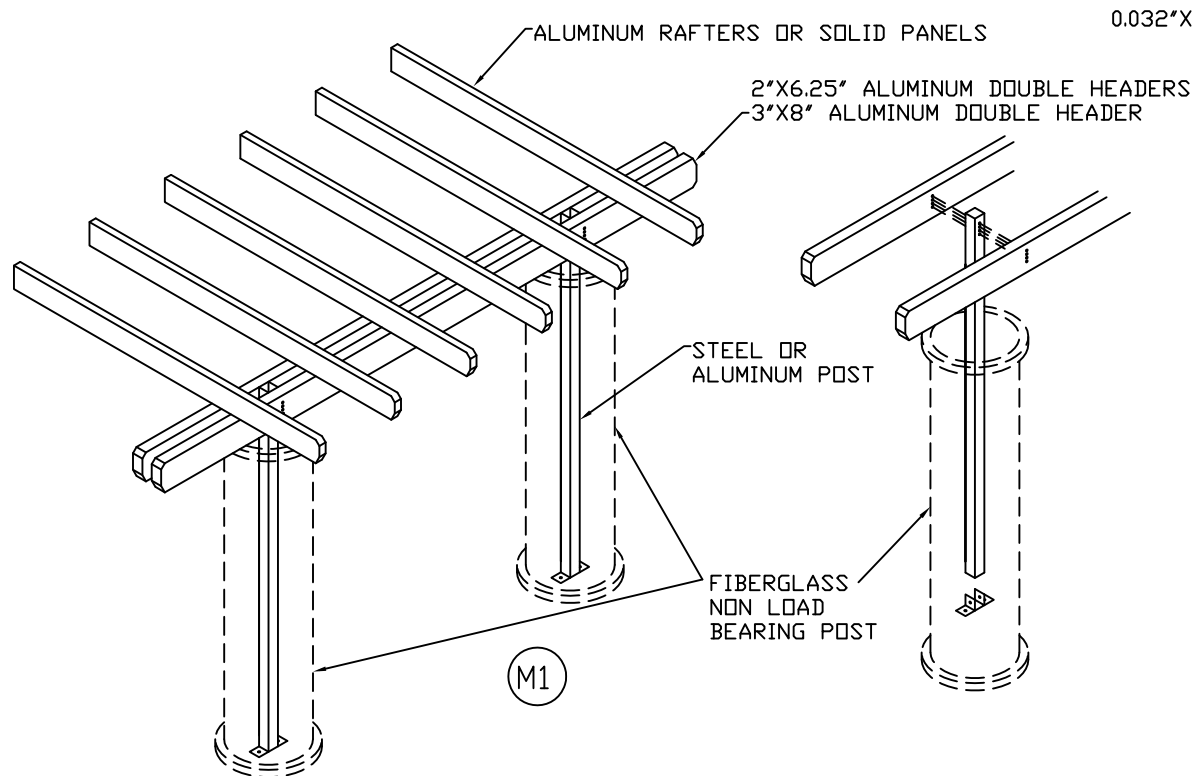
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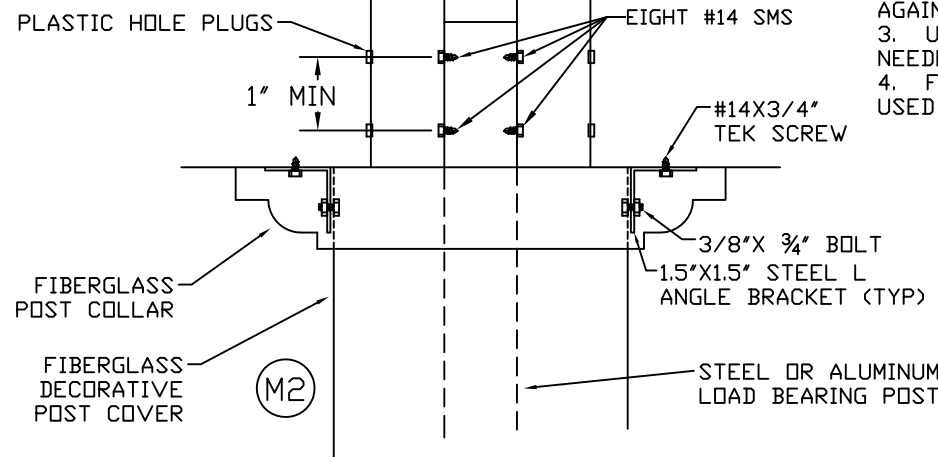
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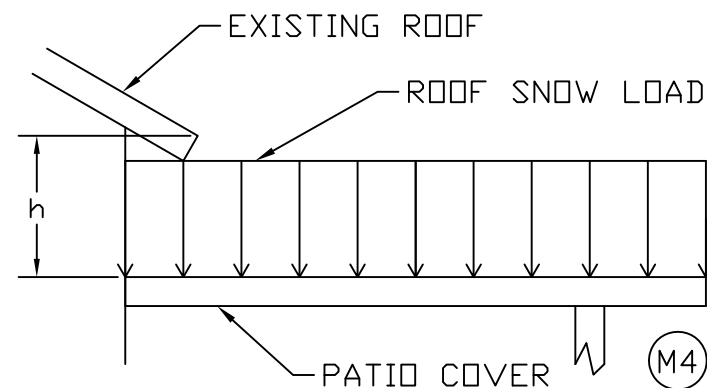
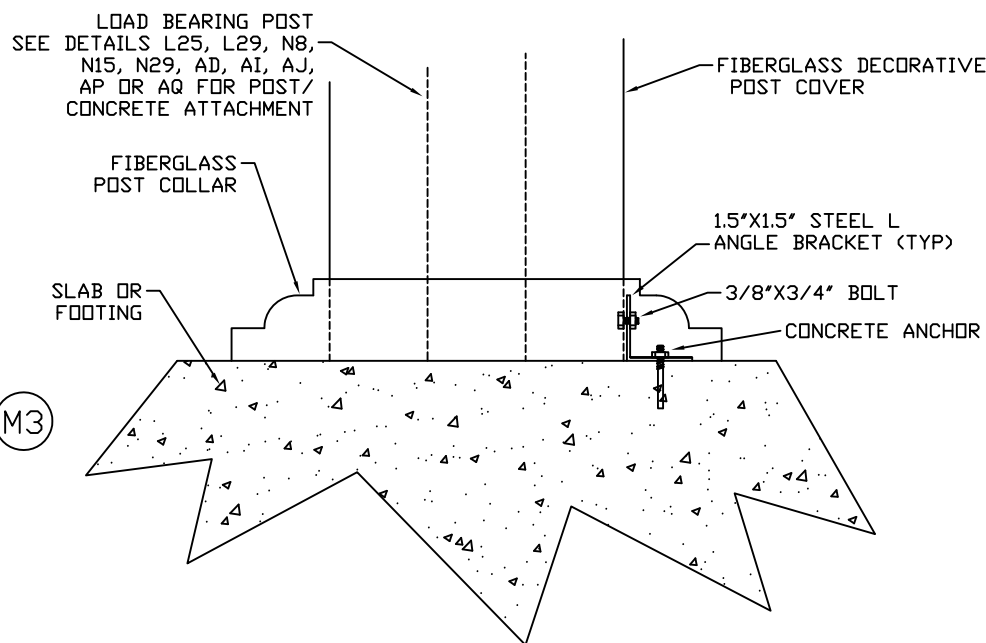
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DATE:	FILE#: CD09-2006
	SHEET: 9 of 9



0.032"X2"X6.625" ALUM HEADERS OR
0.042"X3"X8" ALUM HEADERS

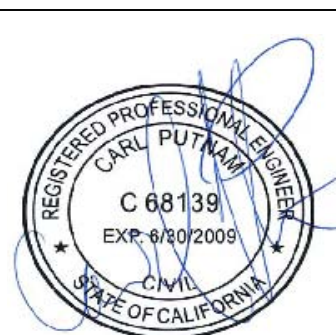


- NOTES:
1. FIBERGLASS POSTS ARE NON-LOAD BEARING.
 2. ATTACHMENT TO HOLD COVERING AGAINST MINOR LATERAL FORCES.
 3. USE MULTIPLE BRACKETS AS NEEDED.
 4. FIBERGLASS POSTS MAY BE USED FOR ANY STRUCTURE.



STRUCTURES COMPLYING WITH THIS DETAIL DO NOT REQUIRE ADDITIONAL DRIFTING SNOW CONSIDERATIONS

GROUND SNOW LOAD (PSF)	MAXIMUM "h" (IN)
10	9
15	14
20	17
25	18
30	20
40	25
50	30
60	33

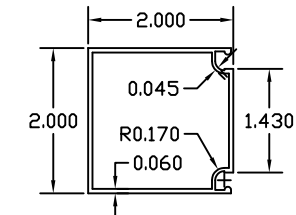
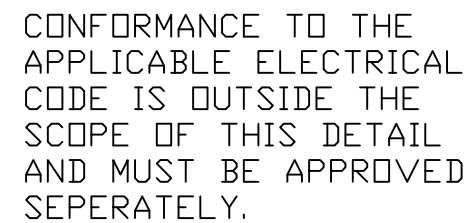
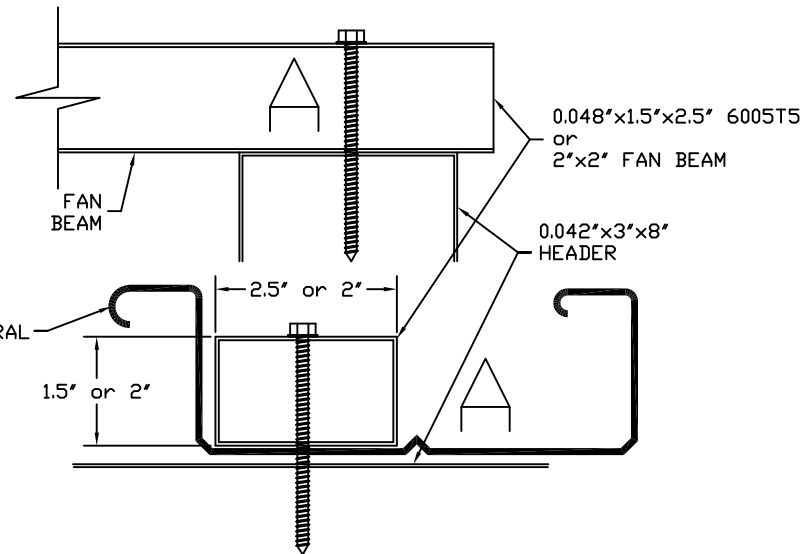


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5208 TENNYSON PARKWAY
SUITE 100
PLANO, TEXAS 75024

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DATE:	FILE#:	M1-2006
	SHEET:	



2"X2" FAN BEAM 6063T5 ALUM
NO ORIENTATION SPECIFIED

10 PSF LIVE LOAD / 90 MPH EXPOSURE C					
TRIB WIDTH (FT)	MAX POST SPACING ON SLAB (FT)	POST REQ'D FOR SLAB	MAX POST SPACING (FT)	MIN POST TYPE	ATTACHED FOOTING SIZE "d" (in)
4	14'-8"	A	14'-8"	A	19
4.5	13'-10"	A	13'-10"	A	19
5	13'-2"	A	13'-2"	A	19
5.5	12'-4"	A	12'-7"	B	20
6	11'-4"	A	12'-0"	B	20
6.5	10'-5"	A	11'-7"	B	20
7	9'-8"	A	11'-2"	B	20
7.5	9'-1"	A	10'-9"	B	21
8	8'-6"	A	10'-5"	B	21
9	7'-6"	A	8'-7"	B	21
10	6'-9"	A	8'-2"	B	22
11	6'-2"	A	7'-9"	B	22
12	5'-8"	A	7'-1"	B	22
13	5'-2"	A	6'-7"	B	22
14	4'-10"	A	6'-1"	B	22
15	4'-6"	A	5'-8"	B	22
16	4'-3"	A	5'-4"	B	22
17	4'-0"	A	5'-0"	B	22

Weight of fan/lights	Allowable Spans	
	0.048"x1.5"x2.5"	2"x2" FAN BEAM
30 lbs	15'-9"	23'-0"
40 lbs	11'-10"	19'-11"
50 lbs	9'-5"	17'-10"
60 lbs	7'-10"	15'-1"
75 lbs	6'-3"	12'-1"



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DATE:	FILE#: M2-2006	SHEET:

EQUIVALENT FOOTINGS FOR FREESTAND AND ATTACHED					
CONstrained FOOTING (IN)	NON CONstrained FOOTING (IN)	DIAMETER OF CIRCULAR FOOTINGS (IN)			
		12"	18"	24"	30"
		DEPTH OF CIRCULAR FOOTINGS (IN)			
18	18	52	23	13	12
19	20	61	27	15	12
20	22	71	31	18	12
21	23	82	36	20	13
22	24	94	42	24	15
23	26	108	48	27	17
24	27	N/A	54	31	20
25	29	N/A	61	35	22
26	31	N/A	69	39	25
27	33	N/A	77	44	28
28	35	N/A	86	49	31
29	36	N/A	96	54	35
30	38	N/A	106	60	38
31	39	N/A	117	66	42
32	40	N/A	129	72	46
33	41	N/A	141	79	51
34	43	N/A	154	87	56
35	44	N/A	168	95	61
36	46	N/A	N/A	103	66
37	47	N/A	N/A	112	72
38	48	N/A	N/A	121	78

TABLE 7.8

Equivalent Cubic Footing d (in)	For Single Span Attached Structures Only			
	Footing Depth (in)			
	18	24	30	36
	Required Length of Square Footing (in)			
20	21	18	16	15
21	23	20	18	16
22	24	21	19	17
23	26	23	20	18
24	28	24	21	20
25	29	26	23	21
26	31	27	24	22
27	33	29	26	23
28	35	30	27	25
29	37	32	29	26
30	39	34	30	27
31	41	35	32	29
32	43	37	33	30
33	45	39	35	32
34	47	40	36	33
35	49	42	38	35
36	51	44	39	36
37	53	46	41	38
38	55	48	43	39
39	57	50	44	41
40	60	52	46	42
41	62	54	48	44
42	64	56	50	45
43	66	58	51	47
44	69	60	53	49
45	71	62	55	50
46	74	64	57	52
47	76	66	59	54
48	78	68	61	55
49	81	70	63	57
50	83	72	65	59

TABLE 7.9

For Single Span Attached Structures Only			
Trib Area for Solid Covers (sq ft)	Wind Condition		Trib Area for Lattice Structures (sq ft)
	90 mph Exp C	110 mph Exp C	
	Required "d" of Footing (in)		
20	15	17	33
30	17	19	50
40	19	21	67
50	21	23	83
60	22	25	100
70	23	26	117
80	24	27	133
90	25	28	150
100	26	29	167
110	27	30	183
120	27	31	200
130	28	32	217
140	29	33	233
150	30	33	250
160	30	34	267
170	31	35	283
180	31	35	300
190	32	36	317
200	33	37	333
210	33	37	350
220	34	38	367
230	34	38	383
240	35	39	400
250	35	40	417
260	36	40	433
270	36	41	450
280	36	41	467
290	37	42	483
300	37	42	500

TABLE 7.10

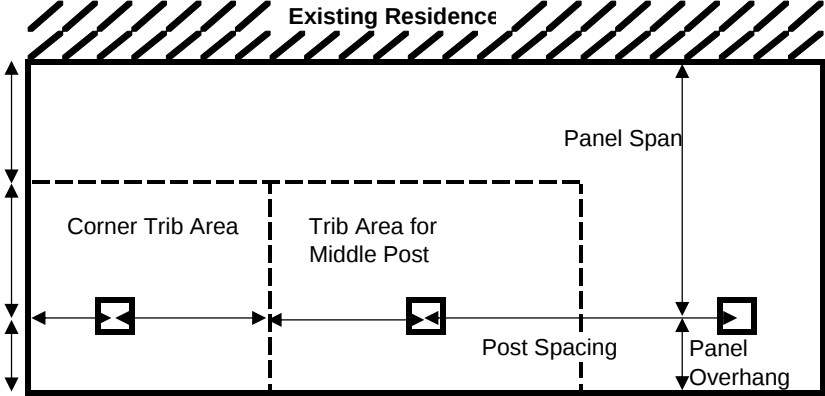


Figure 1

Determine Trib Area from Figure 1

Amerimax Building Products
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