DATE 06/13/2006

Columbia County Building Permit

This Permit Expires One Year From the Date of Issue

PERMIT
000024623

APPLICANT VINCE RICHARDSON PHONE 755-5779

ADDRESS 692 SW ARLINGTON BLVD LAKE CITY FL 32025

OWNER JUDY STILES PHONE 752-1740

ADDRESS 250 SW STORY PLACE LAKE CITY FL 32024

CONTRACTOR VINCE RICHARDSON PHONE 755-5779

LOCATION OF PROPERTY C-247-S, L KIRBY RD, L INTO CRESTPIONT SUB.
250 SW STORY PLACE ON RIGHT

TYPE DEVELOPMENT SCREEN ROOM ESTIMATED COST OF CONSTRUCTION 13000.00

HEATED FLOOR AREA _____ TOTAL AREA _____ HEIGHT 8.00 STORIES 1

FOUNDATION _____ WALLS SCREEN ROOF PITCH _____ FLOOR _____

LAND USE & ZONING RSF-2 MAX. HEIGHT 35

Minimum Set Back Requirments: STREET-FRONT 25.00 REAR 15.00 SIDE 10.00

NO. EX.D.U. 1 FLOOD ZONE NA DEVELOPMENT PERMIT NO. _____

PARCEL ID 11-4S-16-02905-420 SUBDIVISION CREST POINTE S/D

LOT 20 BLOCK _____ PHASE .00 UNIT 0 TOTAL ACRES 0.51

Culvert Permit No.	Culvert Waiver	Contractor's License Number	Applicant/Owner/Contractor
		5129	Vince Richardson

Driveway Connection	Septic Tank Number	LU & Zoning checked by	Approved for Issuance	New Resident
EXISTING	X06-0178	BK	JH	N

COMMENTS: NOC ON FILE

Check # or Cash 1941

FOR BUILDING & ZONING DEPARTMENT ONLY

(footer/Slab)

Temporary Power _____ date/app. by | Foundation _____ date/app. by | Monolithic _____ date/app. by

Under slab rough-in plumbing _____ date/app. by | Slab _____ date/app. by | Sheathing/Nailing _____ date/app. by

Framing _____ date/app. by | Rough-in plumbing above slab and below wood floor _____ date/app. by

Electrical rough-in _____ date/app. by | Heat & Air Duct _____ date/app. by | Peri. beam (Lintel) _____ date/app. by

Permanent power _____ date/app. by | C.O. Final _____ date/app. by | Culvert _____ date/app. by

M/H tie downs, blocking, electricity and plumbing _____ date/app. by | Pool _____ date/app. by

Reconnection _____ date/app. by | Pump pole _____ date/app. by | Utility Pole _____ date/app. by

M/H Pole _____ date/app. by | Travel Trailer _____ date/app. by | Re-roof _____ date/app. by

BUILDING PERMIT FEE $ 65.00 CERTIFICATION FEE $ 0.00 SURCHARGE FEE $ 0.00

MISC. FEES $ 0.00 ZONING CERT. FEE $ 50.00 FIRE FEE $ 0.00 WASTE FEE $ _____

FLOOD DEVELOPMENT FEE $ _____ FLOOD ZONE FEE $ _____ CULVERT FEE $ _____ **TOTAL FEE** 115.00

INSPECTORS OFFICE L. H CLERKS OFFICE CH

NOTICE: IN ADDITION TO THE REQUIREMENTS OF THIS PERMIT, THERE MAY BE ADDITIONAL RESTRICTIONS APPLICABLE TO THIS PROPERTY THAT MAY BE FOUND IN THE PUBLIC RECORDS OF THIS COUNTY. AND THERE MAY BE ADDITIONAL PERMITS REQUIRED FROM OTHER GOVERNMENTAL ENTITIES SUCH AS WATER MANAGEMENT DISTRICTS, STATE AGENCIES, OR FEDERAL AGENCIES.

"WARNING TO OWNER: YOUR FAILURE TO RECORD A NOTICE OF COMMENCEMENT MAY RESULT IN YOUR PAYING TWICE FOR IMPROVEMENTS TO YOUR PROPERTY. IF YOU INTEND TO OBTAIN FINANCING, CONSULT WITH YOUR LENDER OR AN ATTORNEY BEFORE RECORDING YOUR NOTICE OF COMMENCEMENT."

This Permit Must Be Prominently Posted on Premises During Construction

PLEASE NOTIFY THE COLUMBIA COUNTY BUILDING DEPARTMENT AT LEAST 24 HOURS IN ADVANCE OF EACH INSPECTION, IN ORDER THAT IT MAY BE MADE WITHOUT DELAY OR INCONVIENCE, PHONE 758-1008. THIS PERMIT IS NOT VALID UNLESS THE WORK AUTHORIZED BY IT IS COMMENCED WITHIN 6 MONTHS AFTER ISSUANCE.

The Issuance of this Permit Does Not Waive Compliance by Permittee with Deed Restrictions.

Columbia County Building Permit Application ck#1941

Revised 9-23-04

For Office Use Only Application # 0605-62 Date Received 5/16 By ____ Permit # 24623

Application Approved by - Zoning Official BLK Date 22.05.06 Plans Examiner OK JTH Date 5-16-06

Flood Zone X plot Development Permit N/A Zoning RSF-2 Land Use Plan Map Category Res. - Low Density

Comments -NOC -

Applicants Name Vince Richardson Richardson ALUMINUM. LLC Phone 386-755-5779

Address 1692 S.W. Arlington Blvd. LAKE City, FL 32025

Owners Name Judy A. Stiles Phone 386-752-1740

911 Address 250 sw Story Place Lake City, Fla. 32024-1103

Contractors Name Richardson ALUMINUM LLC Phone 386-755-5779

Address 1692 S.W. Arlington Blvd Lake City, FL 32025

Fee Simple Owner Name & Address ____

Bonding Co. Name & Address ____

Architect/Engineer Name & Address Bennett

Mortgage Lenders Name & Address ____

Circle the correct power company - FL Power & Light - Clay Elec. - Suwannee Valley Elec. - Progressive Energy

Property ID Number 11-4S-16-02905-420 Estimated Cost of Construction 13,000.00

Subdivision Name Crest Pointe Lot 20 Block ____ Unit ____ Phase ____

Driving Directions 247 South to Kirby rd or entrance to woodcrest Sub. Go south on Kirby rd. Turn Left at Crestpoint Sub. 250 s.w. Story Place on Right.

Type of Construction Screen Room Number of Existing Dwellings on Property 1

Total Acreage .51 Lot Size 120'x 184' Do you need a - Culvert Permit or Culvert Waiver or Have an Existing Drive

Actual Distance of Structure from Property Lines - Front 77' Side 33.5 Side 33.5 Rear 94

Total Building Height 8' Number of Stories 1 Heated Floor Area 0 Roof Pitch 1/2"

Application is hereby made to obtain a permit to do work and installations as indicated. I certify that no work or installation has commenced prior to the issuance of a permit and that all work be performed to meet the standards of all laws regulating construction in this jurisdiction.

OWNERS AFFIDAVIT: I hereby certify that all the foregoing information is accurate and all work will be done in compliance with all applicable laws and regulating construction and zoning.

WARNING TO OWNER: YOUR FAILURE TO RECORD A NOTICE OF COMMENCMENT MAY RESULT IN YOU PAYING TWICE FOR IMPROVEMENTS TO YOUR PROPERTY. IF YOU INTEND TO OBTAIN FINANCING, CONSULT WITH YOUR LENDER OR ATTORNEY BEFORE RECORDING YOUR NOTICE OF COMMENCEMENT.

Owner Builder or Agent (Including Contractor)

Vince Richardson
Contractor Signature

Contractors License Number ____

Competency Card Number 5129

STATE OF FLORIDA
COUNTY OF COLUMBIA

NOTARY PUBLIC STATE OF FLORIDA
AMY MARTS
MY COMMISSION # DD458730
EXPIRES: Aug. 7, 2009
Florida Notary Service.com

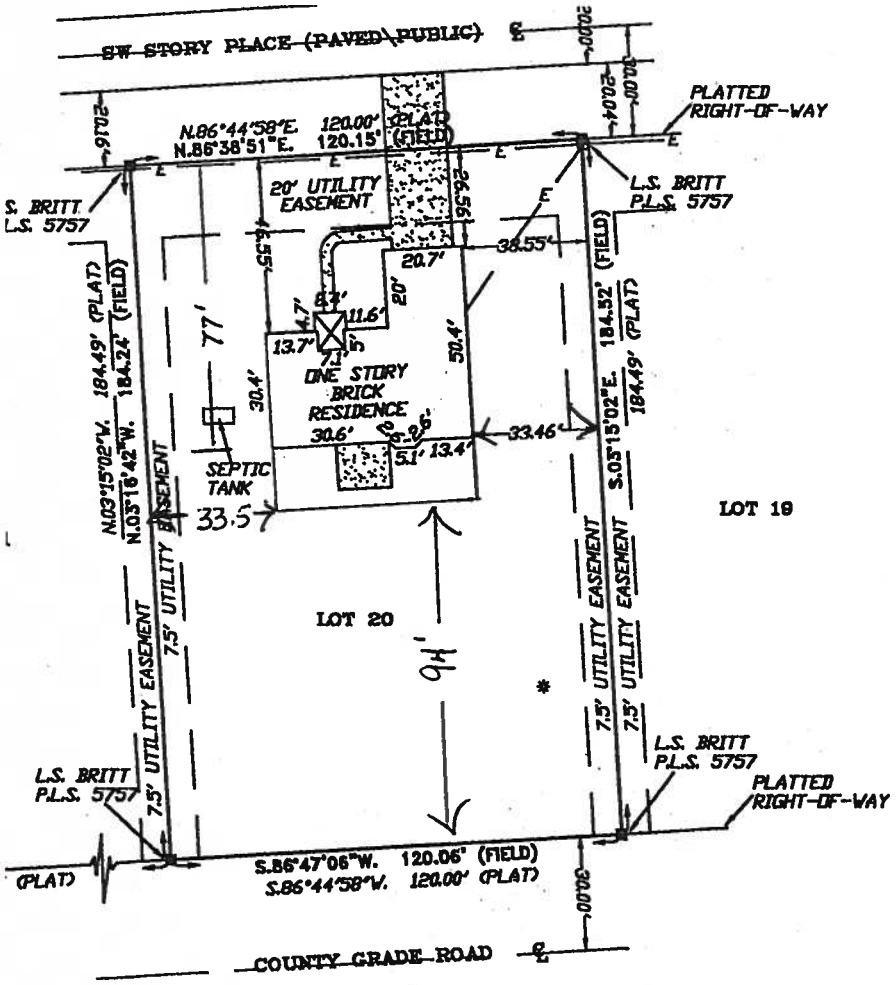
NOTARY STAMP/SEAL

Sworn to (or affirmed) and subscribed before me this 16th day of May 2006.

Personally known X or Produced Identification ____

Notary Signature

VINCE L



SCALE: 1" = 40'

- ■ 4"X4" CONCRETE MONUMENT FOUND
- □ 4"X4" CONCRETE MONUMENT SET
- ● IRON PIPE FOUND
- ○ IRON PIN AND CAP SET
- ⊕ POWER POLE
- ▲ WATER METER
- ℄ CENTERLINE
- ✱ WELL
- ⊛ SATELLITE DISH
- ⊖ TELEPHONE BOX
- —E— ELECTRIC LINES
- —X— WIRE FENCE
- —o— CHAIN LINK FENCE
- —□— WOODEN FENCE

DESCRIPTION:
LOT 20 OF "CRESTPOINTE" AS PER PLAT THEREOF RECORDED IN PLAT BOOK 7, PAGES 72 & 73 OF THE PUBLIC RECORDS OF COLUMBIA COUNTY, FLORIDA.

SURVEYOR'S NOTES:
1. BOUNDARY BASED ON MONUMENTATION FOUND IN ACCORDANCE WITH THE RETRACEMENT OF THE ORIGINAL SURVEY FOR SAID PLAT OF RECORD.
2. BEARINGS ARE BASED ON SAID PLAT OF RECORD.
3. THIS PARCEL IS IN ZONE "X" AND IS DETERMINED TO BE OUTSIDE THE 500 YEAR FLOOD PLAIN AS PER FLOOD RATE MAP, DATED 6 JANUARY, 1988 COMMUNITY PANEL NUMBER 120070 0175 B. HOWEVER, THE FLOOD INSURANCE RATE MAPS ARE SUBJECT TO CHANGE.
4. THE IMPROVEMENTS, IF ANY, INDICATED ON THIS SURVEY DRAWING ARE AS LOCATED ON DATE OF FIELD SURVEY AS SHOWN HEREON.
5. IF THEY EXIST, NO UNDERGROUND ENCROACHMENTS AND/OR UTILITIES WERE LOCATED FOR THIS SURVEY EXCEPT AS SHOWN HEREON.
6. THIS SURVEY WAS COMPLETED WITHOUT THE BENEFIT OF A TITLE COMMITMENT OR A TITLE POLICY.

CERTIFIED TO:
JUDY A. STILES
FEDERAL CREDIT UNION
AND TITLE SERVICES, INC.
TITLE INSURANCE COMPANY

SURVEYOR'S CERTIFICATION:

I HEREBY CERTIFY THAT THIS SURVEY WAS MADE UNDER MY RESPONSIBLE CHARGE AND MEETS THE MINIMUM TECHNICAL STANDARDS AS SET FORTH BY THE FLORIDA BOARD OF PROFESSIONAL SURVEYORS AND MAPPERS IN CHAPTER 61G17-6, FLORIDA ADMINISTRATIVE CODE, PURSUANT TO SECTION 472.027, FLORIDA STATUTES.

10/19/02 — FIELD SURVEY DATE
10/22/02 — DRAWING DATE

L. SCOTT BRITT, P.S.M.
CERTIFICATION # 5757

NOTICE: UNLESS IT BEARS THE SIGNATURE AND THE ORIGINAL RAISED SEAL OF A FLORIDA LICENSED SURVEYOR AND

BRITT SURVEYING
LAND SURVEYORS AND MAPPERS
1426 WEST DUVAL STREET LAKE CITY, FLORIDA 32055
(904)752-7163 FAX (904)752-5573

11-4S-16-02905-420

LOT 20 CREST POINTE S/D.
ORB 967-395.

STILES JUDY A
250 SW STORY PL
LAKE CITY, FL 32024

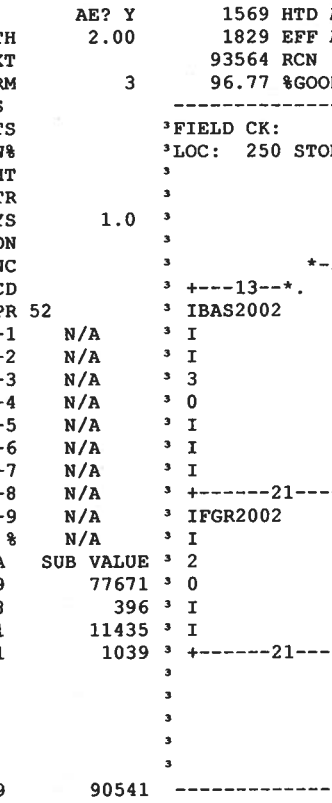
11-4S-16-02905-420

Columbia Cou

PRINTED 5/05/2006 8:43
APPR 10/27/2003 DF

BUSE	000100	SINGLE FAM		AE? Y	1569	HTD AREA	113.680	INDEX	11416.00	DIST	3
MOD	1	SFR	BATH	2.00	1829	EFF AREA	51.156	E-RATE	100.000	INDX	
EXW	19	COMMON BRK	FIXT		93564	RCN			2002	AYB	
30%	31	VINYL SID	BDRM	3	96.77	%GOOD	90,541	B BLDG VAL	2002	EYB	
RSTR	08	IRREGULAR	RMS								
RCVR	03	COMP SHNGL	UNTS								
%		N/A	C-W%								
INT	05	DRYWALL	HGHT								
%		N/A	PMTR								
FLR	14	CARPET	STYS	1.0							
10%	15	HARDTILE	ECON								
HTTP	04	AIR DUCTED	FUNC								
A/C	03	CENTRAL	SPCD								
QUAL	03	AVERAGE	DEPR	52							
FNDN		N/A	UD-1	N/A							
SIZE	03	RECTANGLE	UD-2	N/A							
CEIL		N/A	UD-3	N/A							
ARCH		N/A	UD-4	N/A							
FRME	02	WOOD FRAME	UD-5	N/A							
KTCH		N/A	UD-6	N/A							
WNDO		N/A	UD-7	N/A							
CLAS		N/A	UD-8	N/A							
OCC		N/A	UD-9	N/A							
COND		N/A	%	N/A							

SUB	A-AREA	%	E-AREA	SUB VALUE
BAS02	1569	100	1569	77671
PTO02	168	5	8	396
FGR02	420	55	231	11435
FOP02	70	30	21	1039
TOTAL	2227		1829	90541



BLDG TRA
BAS2002=W17 PTO2002=N12
/W2 N2/ W5 /S2 W2/ W13
1 N20 W21$ E32 FOP2002=
E7 S5 E14 N30$.

PERMIT
NUMBER DESC
19607 SFR

SALE
BOOK PAGE DATE
967 395 11/08/200
GRANTOR PETER W GIEBEIG
GRANTEE JUDY A STILES

GRANTOR
GRANTEE

EXTRA FEATURES

AE	BN	CODE	DESC	LEN	WID	HGHT	QTY	QL	YR	ADJ	UNITS	UT	PRICE	ADJ UT PR	SPCD %
Y		0166	CONC,PAVMT				1		2002	1.00	857.000	SF	2.000	2.000	1

AE	LAND CODE	DESC	ZONE	TOPO	ROAD	UTIL	UD1	UD2	UD3	UD4	FRONT	BACK	DEPTH	DT	FIELD CK: ADJUSTMENTS	UNITS	UT	PRICE	ADJ UT PR
Y	000100	SFR	RSF-1	RSF	0007										1.00 1.00 1.00 1.00	1.000	LT	17000.000	17000.
					0002	0003													

2006

RONNIE BRANNON, CFC
COLUMBIA COUNTY TAX COLLECTOR

2005 REAL ESTATE
NOTICE OF AD VALOREM TAXES AND NON-AD VALOREM ASSESSMENTS

ACCOUNT NUMBER	ESCROW CD	ASSESSED VALUE	EXEMPTIONS	TAXABLE VALUE	MILLAGE CODE
R02905-420		95,255	25,000	70,255	002

R

0003642 01 AV 0.278 **AUTO T5 0 0810 32024-123

STILES JUDY A
250 SW STORY PL
LAKE CITY FL 32024-1103

11-4S-16 0100/0100 .51 Acres
LOT 20 CREST POINTE S/D.
ORB 967-395.

SEE INSERT FOR IMPORTANT INFO
AND TELEPHONE NUMBERS
WWW.COLUMBIATAXCOLLECTOR.COM

RETAIN BLUE PORTION OR RETURN ENTIRE NOTICE WITH A SELF-ADDRESSED STAMPED ENVELOPE FOR A VALIDATED RECEIPT.

AD VALOREM TAXES

TAXING AUTHORITY	MILLAGE RATE (DOLLARS PER $1,000 OF TAXABLE VALUE)	TAXES LEVIED
C001 BOARD OF COUNTY COMMISSIONERS	8.7260	613.05
S002 COLUMBIA COUNTY SCHOOL BOARD		
DISCRETIONARY	.7600	53.39
LOCAL	5.1950	364.97
CAPITAL OUTLAY	2.0000	140.51
W SR SUWANNEE RIVER WATER MGT DIST	.4914	34.52
HLSH SHANDS AT LAKE SHORE	1.7500	122.95
IIDA INDUSTRIAL DEVELOPEMENT AUTH	.1380	9.70
TOTAL MILLAGE	19.0604	AD VALOREM TAXES $1,339.09

NON-AD VALOREM ASSESSMENTS

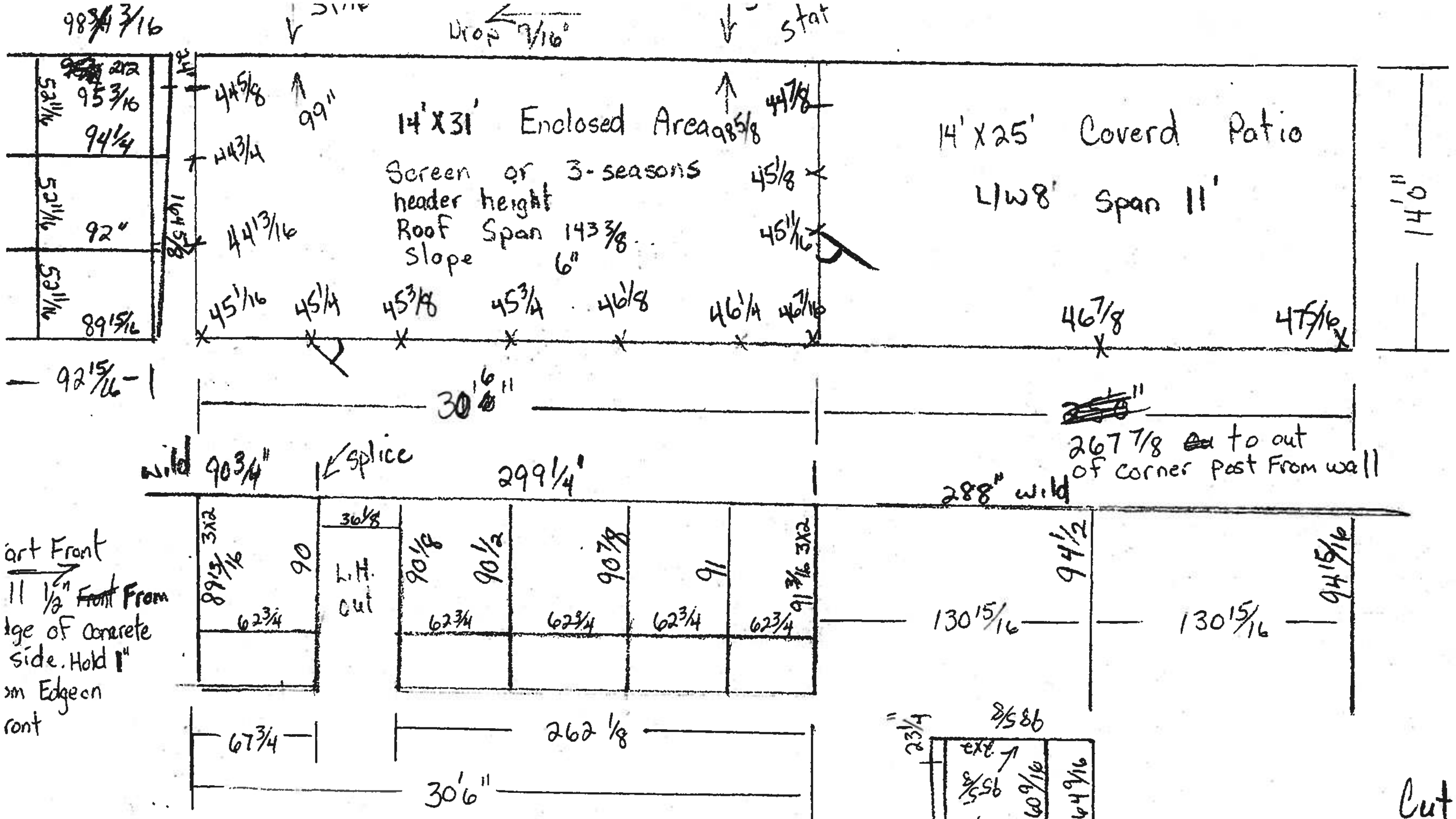
LEVYING AUTHORITY	RATE	AMOUNT
FFIR FIRE ASSESSMENTS		71.00
GGAR SOLID WASTE - ANNUAL		147.00

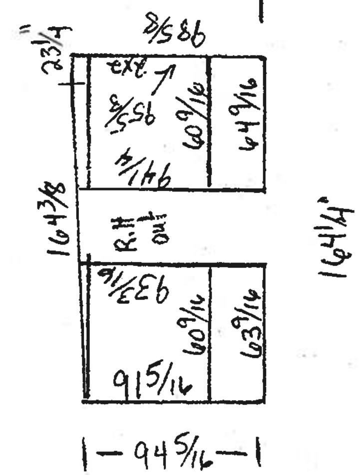
Pd CK# 7006 12/14/05 $ 151038

PAY ONLY ONE AMOUNT IN YELLOW SHADED AREA — NON-AD VALOREM ASSESSMENTS $218.00

COMBINED TAXES AND ASSESSMENTS	$1,557.09	PAY ONLY ONE AMOUNT	See reverse side for important information.

IF PAID BY	Nov 30	Dec 31	Jan 31	Feb 28	Mar 31
PLEASE PAY	1,494.81	1,510.38	1,525.95	1,541.52	1,557.09





Notes: Clay Gutter

Roof 56'4" Exact

Set chair-rail at 22"/24"

Cut list

All walls

mate+Cut Beam 288"

Cut+ Notch Post

Feild

43 3/8

SECTION 3A
SCREEN, ACRYLIC & VINYL ROOMS

General Notes and Specifications:

1. The following structures are designed to be married to block and wood frame structures of adequate structural capacity. The contractor / home owner shall verify that the host structure is in good condition and of sufficient strength to hold the proposed addition.
2. If there is a question about the host structure, the owner (at his own expense) shall hire an architect, engineer, or a certified home inspection company to verify host structure capacity.
3. The structures designed using this section shall be limited to a maximum projection of 16' from the host structure. Freestanding structures shall be limited to the maximum spans and size limits of component parts. Larger than these limits shall have site specific engineering.
4. The following rules apply to attachments involving mobile and manufactured homes:
   a. Structures to be placed adjacent to a mobile / manufactured home built prior to 1994 shall use "fourth wall construction" or shall provide detailed plans of the mobile / manufactured home and inspection report along with addition plans for site specific review and seal by the engineer. This applies to all screen / glass rooms and / or structures to be attached.
   b. "Fourth wall construction" means the addition shall be free standing with only the roof flashing of the two units being attached. The most common "fourth wall construction" is a post & beam frame adjacent to the mobile / manufactured home. The same span tables can be used as for the front wall beam. For fourth wall beam use the carrier beam table. The post shall be sized according to this manual and/or as a minimum be a 2" x 3" x 0.050" with an 18" x 2" x 0.044" knee brace at each end of the beam.
   c. For mobile / manufactured homes built after 1994, structures may be attached, provided the project follows the plan provided in this manual. The contractor / owner shall provide verification that the structural system of the host structure is adequate for the addition to be attached.
   d. If the mobile / manufactured home manufacturer certifies in writing that the mobile home may be attached to, then a "fourth wall" is NOT required.
5. Section 7 contains span tables and the attachment details for pans and composite panels.
6. Screen walls between existing walls, floors, and ceilings are considered infills and shall be allowed and heights shall be selected from the same tables as for other screen walls.
7. When using TEK screws in lieu of S.M.S., longer screws must be used to compensated for drill head.
8. For high velocity hurricane zones the minimum live load / applied load shall be 30 PSF.
9. All specified anchors are based on an enclosed building with a 16' projection and a 2' over hang for up to a wind velocity of 120 MPH.
10. Spans may be interpolated between values but not extrapolated outside values.
11. For Design Check List and Inspection Guides for Sreen, Acrylic & Vinyl Rooms, see Appendix (Section 10).
12. When notes refer to screen rooms, they shall apply to acrylic / vinyl rooms also.

Section 3A Design Statement:

The structures designed for Section 3A are solid roofs with screen or vinyl walls and are considered part of an open structural system which is designed to be married to an existing structure.

The design wind loads used for screen & vinyl rooms are from Chapter 20 of the 2004 Florida Building Code. The loads assume a mean roof height of less than 30'; roof slope of 0° to 20°; I = 0.77. All loads are based on 20 / 20 screen or larger. All pressures shown in the below table are in PSF (#/SF). Negative internal pressure coefficient is 0.00 for open structures.

Anchors for composite panel roof systems were computed on a load width of 10' and 16' projection with a 2' overhang. Any greater load width shall be site specific.

General Notes and Specifications for Section 3A Tables:

Section 3A Design Loads for Screen, Acrylic & Vinyl Rooms

	Roof	Wall	Over Hang All Roofs
100 MPH	+10 / -10	9	+20 / -30
110 MPH	+10 / -11	11	+20 / -36
120 MPH	+10 / -13	13	+20 / -43
123 MPH	+10 / -14	14	+20 / -45
130 MPH	+10 / -15	15	+20 / -50
140A MPH	+30 / -17	18	+30 / -58
140B MPH	+30 / -18	18	+30 / -58
150 MPH	+30 / -20	20	+30 / -67

Note 1: Framing systems of screen, vinyl, and glass rooms are considered to be main frame resistance components. Wind loads are listed as minus loads for roofs and plus loads for walls. To convert above wind loads to "C" Exposure loads multiply by 1.4.

Conversion Table 3A-A
Wind Zone Conversions for Screen & Vinyl Rooms
From 120 MPH Wind Zone to Others

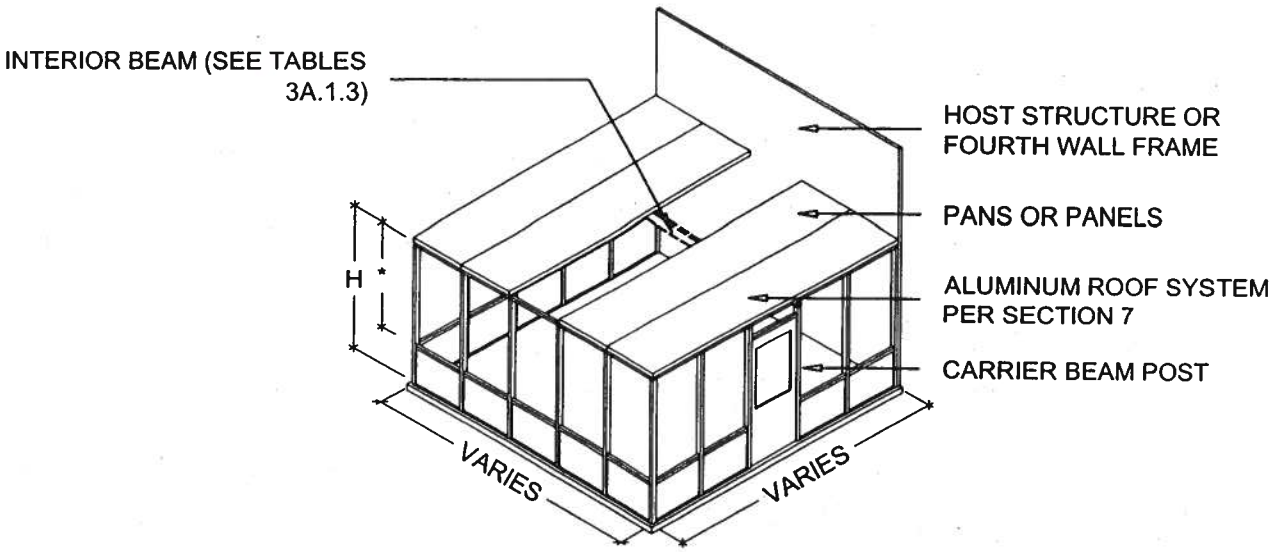
	Roofs			Walls		
Wind Zone MPH	Applied Load (#/SF)	Deflection (d)	Bending (b)	Applied Load (#/SF)	Deflection (d)	Bending (b)
100	10	1.09	1.14	10	1.12	1.18
110	11	1.06	1.09	11	1.08	1.13
120	13	1.00	1.00	14	1.00	1.00
123	14	0.98	0.96	15	0.98	0.97
130	15	0.95	0.93	16	0.96	0.94
140A	17	0.91	0.87	18	0.92	0.88
140B	18	0.90	0.85	18	0.92	0.88
150	30	0.76	0.66	21	0.87	0.82

Conversion Table 3A-B
Wind Zone Conversions for Over Hangs All Room Types
From 120 MPH Wind Zone to Others

Wind Zone MPH	Applied Load (#/SF)	Deflection (d)	Bending (b)
100	30	1.13	1.20
110	36	1.06	1.09
120	43	1.00	1.00
123	45	0.98	0.98
130	50	0.95	0.93
140A	58	0.91	0.86
140B	58	0.91	0.86
150	67	0.86	0.80

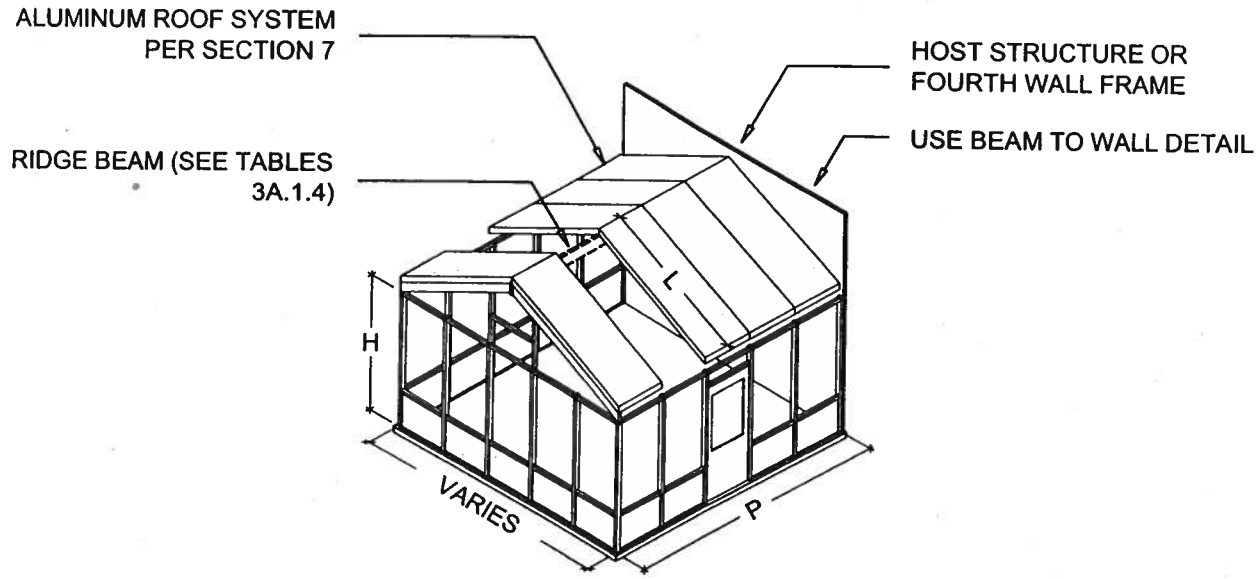
Conversion Table 3A-C
Conversion Based on Mean Height of Host Structure for Screen Rooms
From Exposure 'B' to 'C'

		Span Multiplier	
Mean Host Structure Height	Load Multiplier	Pans	Composite Panels
0 - 15'	1.21	0.94	0.91
15' - 20'	1.29	0.92	0.88
20' - 25'	1.34	0.91	0.86
25' - 30'	1.40	0.89	0.85



TYPICAL SLOPED SOLID ROOF ENCLOSURE

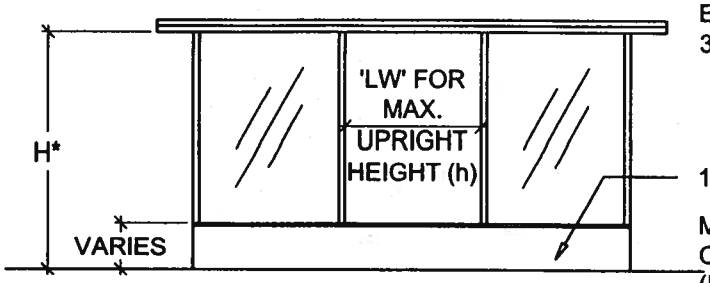
SCALE: N.T.S.



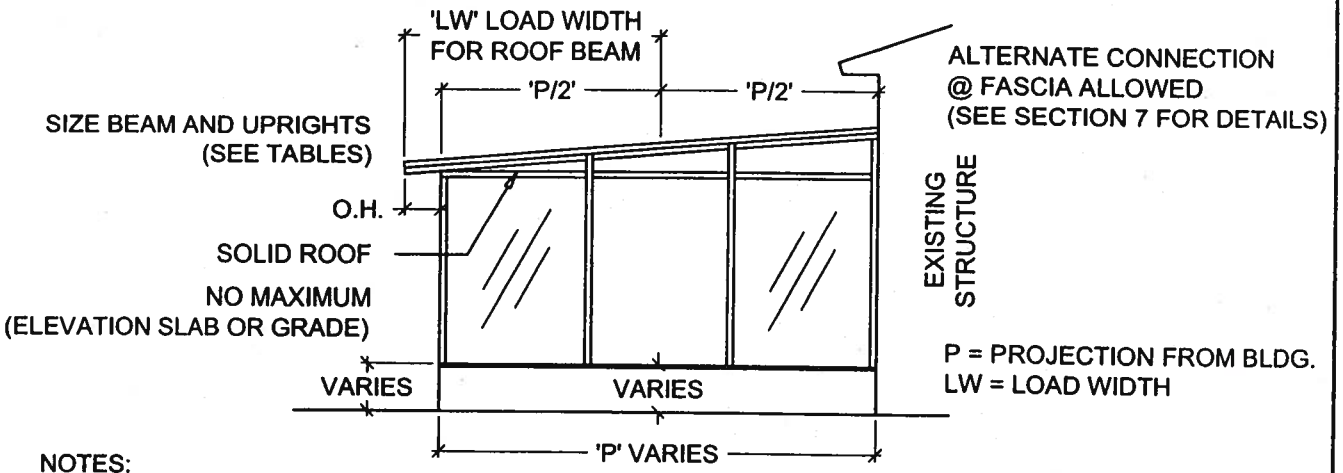
TYPICAL GABLE SOLID ROOF ENCLOSURE

SCALE: N.T.S.

Lawrence E. Bennett, P.E. FL # 16644
CIVIL ENGINEER - DEVELOPMENT CONSULTANT
P.O. BOX 214368, SOUTH DAYTONA, FL 32121
TELEPHONE: (386) 767-4774
FAX: (386) 767-6556



TYPICAL SCREEN, ACRYLIC OR VINYL ROOM W/ SOLID ROOF TYP. FRONT VIEW FRAMING
* (HEIGHT OF UPRIGHT IS MEASURED FROM TOP OF 1" x 2" PLATE TO BOTTOM OF WALL BEAM)



NOTES:

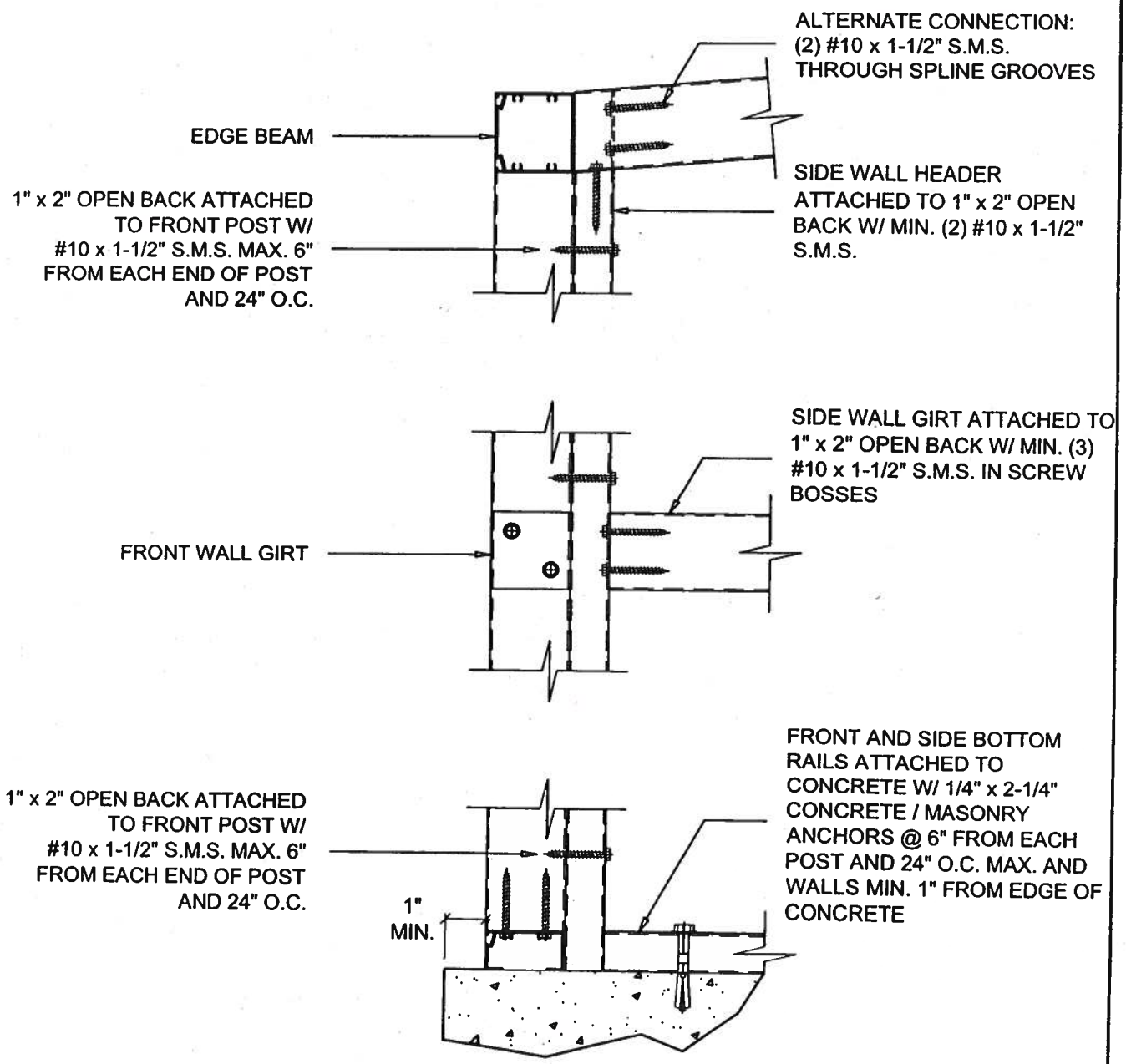
1. ANCHOR 1" x 2" OPEN BACK EXTRUSION W/ 1/4" x 2-1/4" CONCRETE FASTENER MAX. OF 2'-0" O.C. AND W/ IN 6" EACH SIDE OF UPRIGHT ANCHOR 1" x 2" TO WOOD WALL W/ #10 x 2-1/2" S.M.S. W/ WASHERS OR #10 x 2-1/2" WASHER HEADED SCREW 2'-0" O.C.. ANCHOR BEAM AND COLUMN INTERNALLY OR W/ ANCHOR CLIPS AND (2) #8 SCREWS W/ WASHERS @ EACH POINT OF CONNECTION.
2. SELECT FRONT WALL BEAM FROM TABLE USING LARGER LOAD WIDTH VALUE OF P/2 OR P/2 + O.H.
3. SELECT SCREEN ROOM FORTH WALL BEAM FROM TABLES 3A.1.3
4. ANCHORS BASED ON 120 MPH WIND VELOCITY. FOR HIGHER WIND ZONES USE THE FOLLOWING CONVERSION:

100 -123	130	140	150
#8	#10	#12	#12

TYPICAL SCREEN ROOM

SCALE: 3/16" = 1'-0"

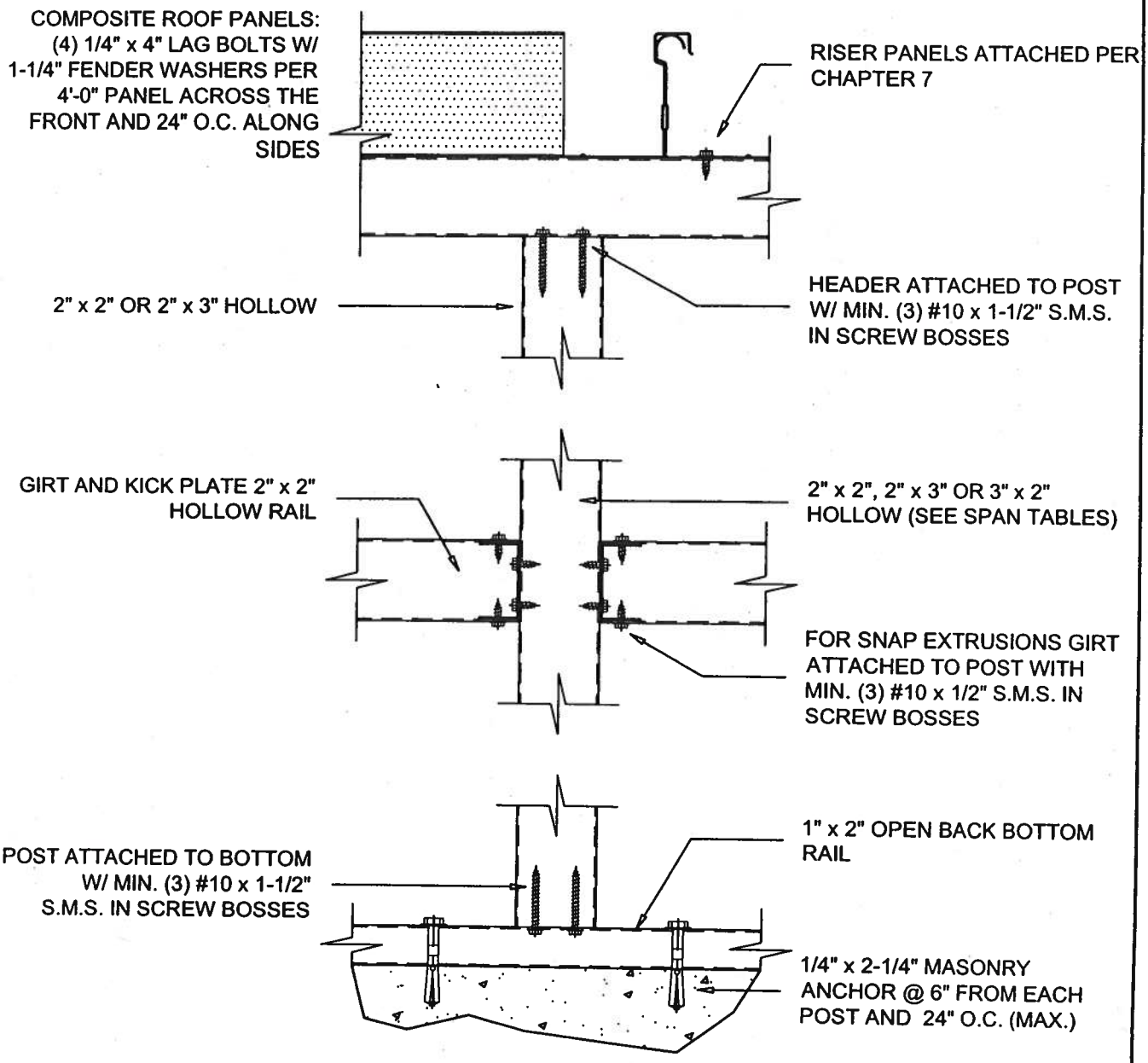
Lawrence E. Bennett, P.E. FL # 16644
CIVIL ENGINEER - DEVELOPMENT CONSULTANT
P.O. BOX 214368, SOUTH DAYTONA, FL 32121
TELEPHONE: (386) 767-4774
FAX: (386) 767-6556



TYPICAL & ALTERNATE CORNER DETAIL

SCALE: 3" = 1'-0"

Lawrence E. Bennett, P.E. FL # 16644
CIVIL ENGINEER - DEVELOPMENT CONSULTANT
P.O. BOX 214368, SOUTH DAYTONA, FL 32121
TELEPHONE: (386) 767-4774
FAX: (386) 767-6556

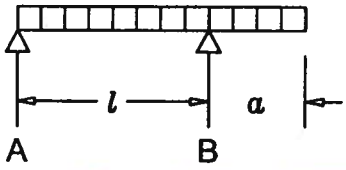


TYPICAL UPRIGHT DETAIL

SCALE: 3" = 1'-0"

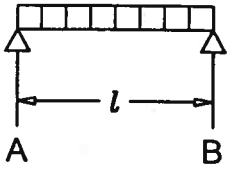
Lawrence E. Bennett, P.E. FL # 16644
CIVIL ENGINEER - DEVELOPMENT CONSULTANT
P.O. BOX 214368, SOUTH DAYTONA, FL 32121
TELEPHONE: (386) 767-4774
FAX: (386) 767-6556

UNIFORM LOAD



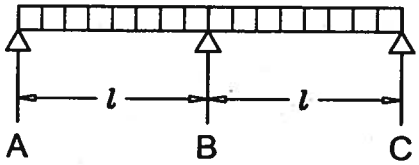
SINGLE SPAN CANTILEVER

UNIFORM LOAD



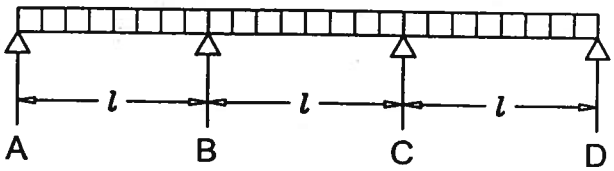
1 OR SINGLE SPAN

UNIFORM LOAD



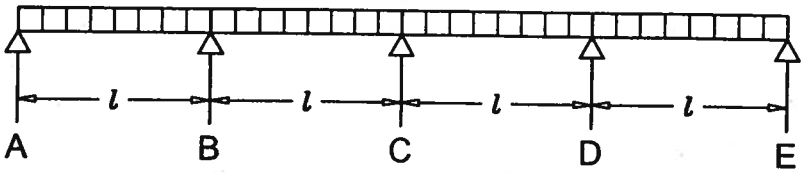
2 SPAN

UNIFORM LOAD



3 SPAN

UNIFORM LOAD



4 SPAN

NOTES:

1) l = Span Length
   a = Overhang Length
2) All spans listed in the tables are for equally spaced distances between supports or anchor points.
3) Hollow extrusions shall not be spliced.
4) Single span beams shall only be spliced at the quarter points and splices shall be staggered.

SPAN EXAMPLES FOR SECTION 3 TABLES

SCALE: N.T.S.

Lawrence E. Bennett, P.E. FL # 16644
CIVIL ENGINEER - DEVELOPMENT CONSULTANT
P.O. BOX 214368, SOUTH DAYTONA, FL 32121
TELEPHONE: (386) 767-4774
FAX: (386) 767-6556

Table 3A.2.1 Allowable Upright Heights, Chair Rail Spans or Header Spans for Screen, Acrylic or Vinyl Rooms

Aluminum Alloy 6063 T-6

For 3 second wind gust at 110 MPH velocity; using design load of 11 #/SF

Sections		Tributary Load Width 'W' = Purlin Spacing									
		3'-0"	3'-6"	4'-0"	4'-6"	5'-0"	5'-6"	6'-0"	6'-6"	7'-0"	7'-6"
		Allowable Height 'H' / bending 'b' or deflection 'd'									
2" x 2" x 0.044"	Hollow	9'-5" b	8'-9" b	8'-2" b	7'-8" b	7'-4" b	6'-11" b	6'-8" b	6'-5" b	6'-2" b	5'-11" b
2" x 2" x 0.055"	Hollow	10'-3" b	9'-6" b	8'-11" b	8'-5" b	7'-11" b	7'-7" b	7'-3" b	6'-11" b	6'-9" b	6'-6" b
3" x 2" x 0.045"	Hollow	11'-3" b	10'-5" b	9'-9" b	9'-3" b	8'-9" b	8'-4" b	7'-11" b	7'-8" b	7'-5" b	7'-2" b
3" x 2" x 0.070"	Hollow	12'-9" d	12'-2" d	11'-7" d	10'-11" b	10'-5" b	9'-11" b	9'-6" b	9'-2" b	8'-10" b	8'-6" b
2" x 3" x 0.045"	Hollow	12'-9" b	11'-9" b	11'-0" b	10'-5" b	9'-10" b	9'-5" b	8'-11" b	8'-8" b	8'-4" b	8'-1" b
2" x 4" x 0.050"	Hollow	16'-3" b	15'-1" b	14'-1" b	13'-3" b	12'-7" b	12'-0" b	11'-6" b	11'-0" b	10'-8" b	10'-3" b
2" x 4" x 0.046"	S.M.B.	19'-1" b	17'-8" b	16'-6" b	15'-7" b	14'-9" b	14'-1" b	13'-6" b	12'-11" b	12'-6" b	12'-1" b
2" x 5" x 0.050"	S.M.B.	23'-7" b	21'-10" b	20'-5" b	19'-3" b	18'-3" b	17'-5" b	16'-8" b	16'-0" b	15'-5" b	14'-11" b
2" x 6" x 0.050"	S.M.B.	26'-1" b	24'-2" b	22'-7" b	21'-3" b	20'-2" b	19'-3" b	18'-5" b	17'-9" b	17'-1" b	16'-6" b
2" x 2" x 0.044"	Snap	11'-3" b	10'-5" b	9'-9" b	9'-2" b	8'-8" b	8'-3" b	7'-11" b	7'-7" b	7'-4" b	7'-1" b
2" x 3" x 0.045"	Snap	14'-4" b	13'-4" b	12'-5" b	11'-9" b	11'-2" b	10'-7" b	10'-2" b	9'-9" b	9'-5" b	9'-1" b
2" x 4" x 0.045"	Snap	17'-7" b	16'-3" b	15'-3" b	14'-4" b	13'-7" b	12'-11" b	12'-5" b	11'-11" b	11'-6" b	11'-1" b

For 3 second wind gust at 120 MPH velocity; using design load of 13 #/SF

Sections		Tributary Load Width 'W' = Purlin Spacing									
		3'-0"	3'-6"	4'-0"	4'-6"	5'-0"	5'-6"	6'-0"	6'-6"	7'-0"	7'-6"
		Allowable Height 'H' / bending 'b' or deflection 'd'									
2" x 2" x 0.044"	Hollow	8'-8" b	8'-0" b	7'-6" b	7'-1" b	6'-8" b	6'-5" b	6'-1" b	5'-11" b	5'-8" b	5'-6" b
2" x 2" x 0.055"	Hollow	9'-5" b	8'-9" b	8'-2" b	7'-9" b	7'-4" b	6'-11" b	6'-8" b	6'-5" b	6'-2" b	5'-11" b
3" x 2" x 0.045"	Hollow	10'-5" b	9'-7" b	8'-11" b	8'-6" b	8'-0" b	7'-8" b	7'-4" b	7'-1" b	6'-10" b	6'-7" b
3" x 2" x 0.070"	Hollow	12'-1" d	11'-5" b	10'-8" b	10'-1" b	9'-7" b	9'-2" b	8'-9" b	8'-5" b	8'-1" b	7'-10" b
2" x 3" x 0.045"	Hollow	12'-10" b	11'-11" b	11'-2" b	10'-6" b	9'-11" b	9'-6" b	9'-1" b	8'-9" b	8'-5" b	8'-2" b
2" x 4" x 0.050"	Hollow	14'-11" b	13'-10" b	12'-11" b	12'-2" b	11'-7" b	11'-0" b	10'-7" b	10'-2" b	9'-9" b	9'-5" b
2" x 4" x 0.046"	S.M.B.	17'-6" b	16'-3" b	15'-2" b	14'-4" b	13'-7" b	12'-11" b	12'-5" b	11'-11" b	11'-6" b	11'-1" b
2" x 5" x 0.050"	S.M.B.	21'-8" b	20'-1" b	18'-9" b	17'-9" b	16'-10" b	16'-0" b	15'-4" b	14'-9" b	14'-2" b	13'-9" b
2" x 6" x 0.050"	S.M.B.	23'-11" b	22'-2" b	20'-9" b	19'-7" b	18'-7" b	17'-9" b	16'-11" b	16'-3" b	15'-8" b	15'-2" b
2" x 2" x 0.044"	Snap	10'-4" b	9'-7" b	8'-11" b	8'-5" b	7'-11" b	7'-7" b	7'-4" b	7'-0" b	6'-9" b	6'-6" b
2" x 3" x 0.045"	Snap	13'-3" b	12'-3" b	11'-5" b	10'-9" b	10'-3" b	9'-9" b	9'-4" b	8'-11" b	8'-8" b	8'-4" b
2" x 4" x 0.045"	Snap	16'-2" b	14'-11" b	14'-0" b	13'-2" b	12'-6" b	11'-11" b	11'-5" b	10'-11" b	10'-7" b	10'-3" b

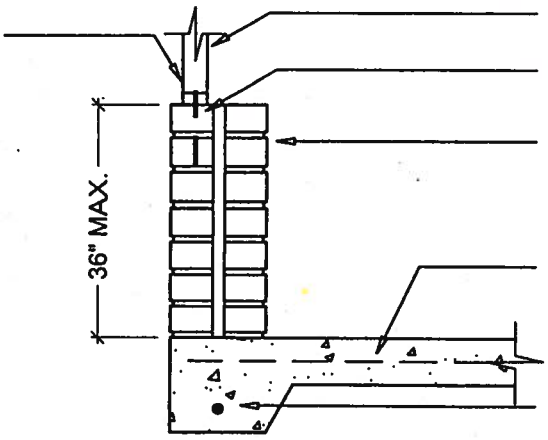
Notes:

1. Above spans do not include length of knee brace. Add horizontal distance from upright to center of brace to beam connection to the above spans for total beam spans.
2. Spans may be interpolated.

Lawrence E. Bennett, P.E. FL # 16644
CIVIL ENGINEER - DEVELOPMENT CONSULTANT
P.O. BOX 214368, SOUTH DAYTONA, FL 32121
TELEPHONE: (386) 767-4774
FAX: (386) 767-6556

1/4" x 6" RAWL TAPPER THROUGH 1" x 2" AND ROW LOCK INTO FIRST COURSE OF BRICKS

ALTERNATE CONNECTION OF SCREENED ENCLOSURE FOR BRICK OR OTHER NON-STRUCTURAL KNEE WALL 1" WIDE x 0.063" THICK STRAP @ EACH POST FROM POST TO FOOTING W/ (2) #10 x 3/4" S.M.S. STRAP TO POST AND (1) 1/4" x 1-3/4" TAPCON TO SLAB OR FOOTING



ALUMINUM FRAME SCREEN WALL

ROW LOCK

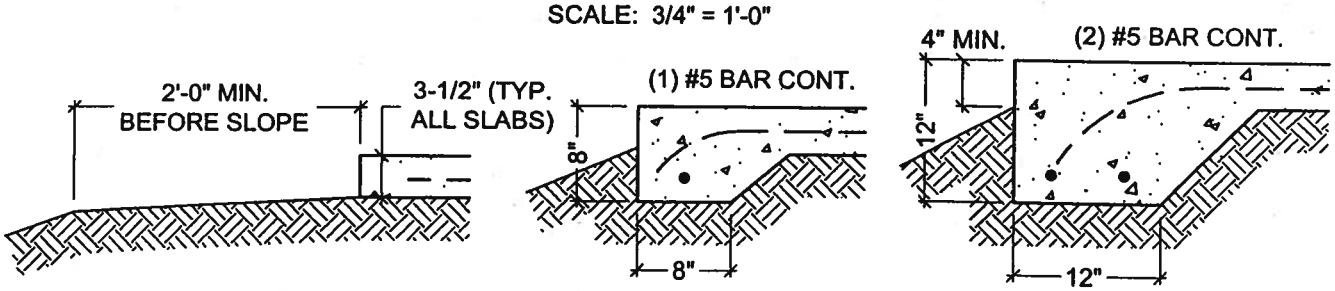
BRICK KNEEWALL TYPE S MORTAR REQUIRED FOR LOAD BEARING BRICK WALL

4" (NOMINAL) PATIO CONCRETE SLAB (SEE NOTES CONCERNING FIBER MESH)

(1) #5 Ø BARS W/ 3" COVER (TYPICAL)

BRICK KNEE WALL AND FOUNDATION FOR SCREEN WALLS

SCALE: 3/4" = 1'-0"



TYPE I
FLAT SLOPE / NO FOOTING
0-2" / 12"

TYPE II
MODERATE SLOPE FOOTING
2" / 12" - 1'-10"

TYPE III
STEEP SLOPE FOOTING
> 1'-10"

Notes:

1. The foundations shown are based on a minimum soil bearing pressure of 1,500 psf. Bearing capacity of soil shall be verified, prior to placing the slab, by field soil test or a soil testing lab.
2. The slab / foundation shall be cleared of debris, roots, and compacted prior to placement of concrete.
3. No footing other than 3-1/2" (4" nominal) slab is required except when addressing erosion until the projection from the host structure of the carport or patio cover exceeds 20'-0". Then a minimum of a Type II footing is required. All slabs shall be 3-1/2" (4" nominal) thick.
4. Monolithic slabs and footings shall be minimum 2,500 psi concrete with 6 x 6 - 10 x 10 welded wire mesh or crack control fiber mesh: Fibermesh ® Mesh, InForce™ e3™ (Formerly Fibermesh MD) per maufacturer's specification may be used in lieu of wire mesh.
5. If local building codes require a minimum footing use Type II footing or footing section required by local code. Local code governs.
   (See additional detail for structures located in Orange County, FL)
6. If a carrier beam or fourth wall frame is required use a Type II footing minimum.

SLAB-FOOTING DETAILS

SCALE: 3/4" = 1'-0"

Lawrence E. Bennett, P.E. FL # 16644
CIVIL ENGINEER - DEVELOPMENT CONSULTANT
P.O. BOX 214368, SOUTH DAYTONA, FL 32121
TELEPHONE: (386) 767-4774
FAX: (386) 767-6556

SECTION 7
SOLID ROOF PANEL PRODUCTS

General Notes and Specifications:

1. The following attachments are designed to be married to block and wood frame structures of adequate structural capacity. The contractor / home owner shall verify that the host structure is in good condition and of sufficient strength to hold the proposed addition.
2. If there is a question about the host structure, the owner (at his own expense) shall hire an architect, engineer, or a certified home inspection company to verify host structure capacity.
3. Roll formed roof panels (pans) are designed for uniform loads and can not be walked on unless plywood is laid across the ribs. Pans have been tested and perform better in wind uplift loads than dead load + live loads. Spans for pans are based on deflection of L/80 for high wind zone criteria.
4. Composite panels can be loaded as walk on or uniform loads and have, when tested performed well in either test. The composite panel tables are based on bending properties determined at a deflection limit of L/180.
5. The following rules apply to attachments involving mobile and manufactured homes:
   a. Structures to be placed adjacent to a mobile / manufactured home built prior to 1994 shall use "fourth wall construction" or shall provide detailed plans of the mobile / manufactured home along with addition plans for site specific review and seal by the engineer. This applies to all screen / glass rooms, and / or other structures to be attached.
   b. For mobile / manufactured homes built after 1994, structures may be attached provided the project follows the plan for attachment of this manual. The contractor / home owner shall provide verification of the structural system used to build the host structure.
6. The shapes and capacities of pans and composite panels are from "Industry Standard" shapes, except for manufacturers proprietary shapes. Unless the manufacturer of the product is known, use the "Industry Standard" Tables for allowable spans.
7. When converting a screen room to a glass room or a carport to a garage, the roof must be checked and reinforced for the enclosed building requirements.
8. When using TEK screws in lieu of S.M.S. longer screws must be used to compensate for drill head.
9. For high velocity hurricane zones the minimum live load / applied load shall be 30 PSF.
10. Interior walls & ceilings of composite panels may have 1/2" sheet rock added by securing the sheet rock w/ 1" fine thread sheet rock screws at 16" O.C. each way.
11. All fascia gutter end caps shall have water relief ports.
12. Spans may be interpolated between values but not extrapolated outside values.
13. Design Check List and Inspection Guides for Solid Roof Panel Systems are included in ispection guides for sections 2, 3A & B, 4 & 5. Use section 2 inspection guide for solid roof in Section 1.
14. All exposed screw heads through roof panels into the roof sub structure shall be caulked w/ silicon sealent.

Section 7 Design Statement:

The roof systems designed for section 7 are Main Wind Force Resisting Systems and Components and Cladding. In conformance with the 2004 Florida Building Code such systems must be designed using loads for components & cladding. Thus, Section 7 uses several different categories of these loads as described below. All pressures shown in the table below are in PSF (#/SF).

1. **Free-standing Structures with Mono-sloped Roofs** with a minimum live load of 10 PSF except for 140B and 150 MPH loads which are 30 PSF. The design wind loads used are from ASCE 7-98 Section 6.5, Analytical Procedure. The loads assume a mean roof height of less than 30'; roof slope of 0° to 10°; I = 0.77 for open structures & 1.00 for all others. Negative internal pressure coefficient is 0.18 for enclosed and 0.55 for partially enclosed structures.

2. **Attached Covers** such as carports, patio covers, gabled carports, and screen rooms with a minimum live load of 10 PSF except for 140B and 150 MPH loads which are 30 PSF. The design wind loads used are from ASCE 7-98 Section 6.5, Analytical Procedure. Roof slope of 0° to 25° (+/- 10°); I = 1.00. Negative internal pressure coefficient is 0.18 for enclosed and 0.55 for partially enclosed structures.

3. **Glass & Modular Rooms** design loads use a minimum live load of 20 PSF and wind loads are from ASCE 7-98 Section 6.5, Analytical Procedure and the 2004 Florida Building Code. The loads assume a mean roof height of less than 30'; roof slope of 20° to 30° (+/- 10°); I= 1.00.

   a. **Enclosed** structural systems use a negative internal pressure coefficient = +/- 0.18.

   b. **Partially Enclosed** structural systems use a negative internal pressure coefficient = +/- 0.55.

4. **Overhangs** use a minimum live load of 20 PSF except for 140B and 150 MPH loads which are 30 PSF. Wind loads are from ASCE 7-98 Section 6.5, Analytical Procedure for Components & Cladding for Enclosed or Partially Enclosed Structural Systems. The loads assume a mean roof height of less than 30'; roof slope of 20° to 30° (+/- 10°); I = 1.0. Negative internal pressure coefficient is 0.18 for enclosed and 0.55 for partially enclosed structures.

5. Anchors for composite panel roof systems were computed on a load width of 10' and 16' projection with a 2' overhang. Any greater load width shall be site specific.

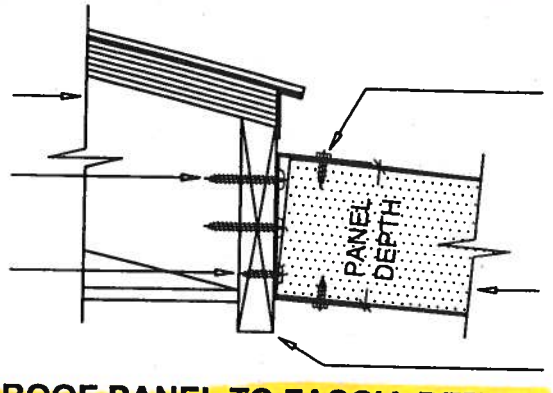
Conversion Table 7A
Load Coversion Factors Based on Mean Roof Height of Host Structure For All Components Exposure "B" to "C"

Mean Host Structure Height	Pans	Composite Panels
0 -15'	0.91	0.94
15'-20'	0.88	0.92
20' - 25'	0.86	0.91
25' - 30'	0.85	0.89

Conversion Table 7B
Conversion Based on Mean Height of Host Structure for Solid Roof Systems
From Exposure 'B' to 'C'

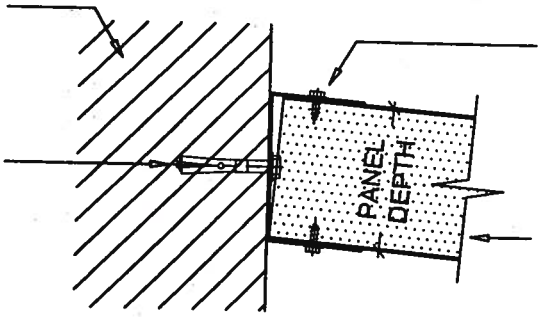
Mean Host Structure Height	Load Multiplier	Span Multiplier	
		Pans	Composite Panels
0 - 15'	1.21	0.94	0.91
15' - 20'	1.29	0.92	0.88
20' - 25'	1.34	0.91	0.86
25' - 30'	1.40	0.89	0.85

COMPOSITE ROOF ANCHORING DETAILS



ROOF PANEL TO FASCIA DETAIL

SCALE: 3" = 1'-0"



ROOF PANEL TO WALL DETAIL

SCALE: 3" = 1'-0"

WOOD STRUCTURES SHOULD CONNECT TO TRUSS BUTTS OR THE SUB-FASCIA FRAMING WHERE POSSIBLE ONLY. 15% OF SCREWS CAN BE OUTSIDE THE TRUSS BUTTS. SUB-FASCIA AND THOSE AREAS SHALL HAVE DOUBLE ANCHORS. ALL SCREWS INTO THE HOST STRUCTURE SHALL HAVE MINIMUM 1-1/4" WASHERS OR SHALL BE WASHER HEADED SCREWS.

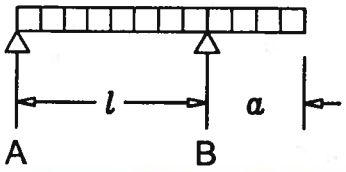
HEADER INSIDE DIMENSION SHALL BE EQUAL TO PANEL OR PAN'S DEPTH "t". THE WALL THICKNESS SHALL BE THE THICKNESS OF THE ALUMINUM PAN OR COMPOSITE PANEL WALL THICKNESS. HEADERS SHALL BE ANCHORED TO THE HOST STRUCTURE WITH ANCHORS APPROPRIATE FOR THE MATERIAL CONNECTED TO. THE ANCHORS DETAILED ABOVE ARE BASED ON A LOAD FROM 120 M.P.H. FOR SBC SECTION 1606 FOR A MAXIMUM POSSIBLE SPAN OF THE ROOF PANEL FROM THE HOST STRUCTURE.

ANCHORS BASED ON 120 MPH WIND VELOCITY. FOR HIGHER WIND ZONES USE THE FOLLOWING CONVERSION:

100 -123	130	140	150
#8	#10	#12	#12

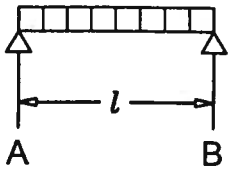
Lawrence E. Bennett, P.E. FL # 16644
CIVIL ENGINEER - DEVELOPMENT CONSULTANT
P.O. BOX 214368, SOUTH DAYTONA, FL 32121
TELEPHONE: (386) 767-4774
FAX: (386) 767-6556

UNIFORM LOAD



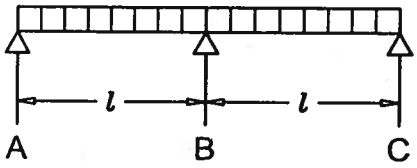
SINGLE SPAN CANTILEVER

UNIFORM LOAD



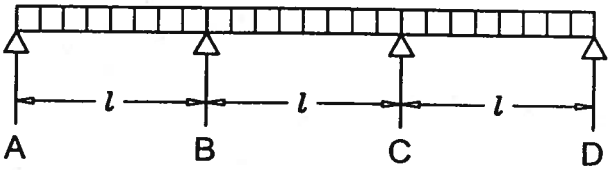
1 OR SINGLE SPAN

UNIFORM LOAD



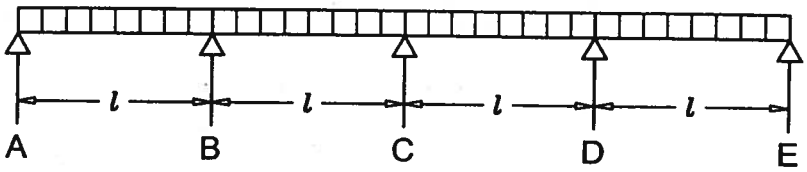
2 SPAN

UNIFORM LOAD



3 SPAN

UNIFORM LOAD



4 SPAN

NOTES:

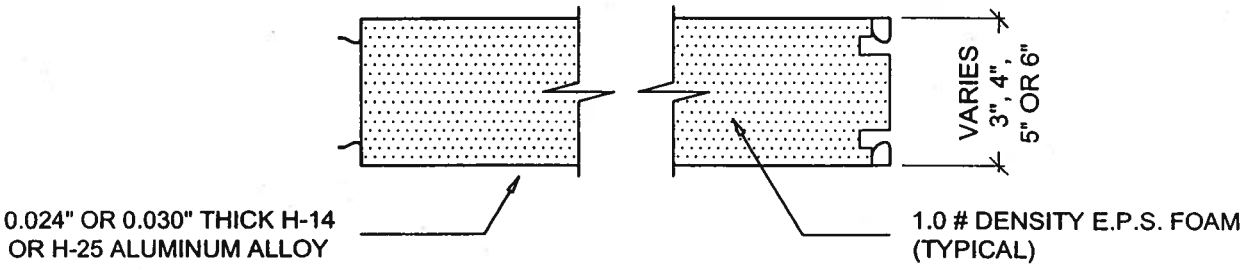
1. l = Span Length
   a = Overhang Length
2. All spans listed in the tables are for equally spaced distances between supports or anchor points.
3. Panels shall not be spliced except at supports.

SPAN EXAMPLES FOR SECTION 7 TABLES

SCALE: N.T.S.

Lawrence E. Bennett, P.E. FL # 16644
CIVIL ENGINEER - DEVELOPMENT CONSULTANT
P.O. BOX 214368, SOUTH DAYTONA, FL 32121
TELEPHONE: (386) 767-4774
FAX: (386) 767-6556

MANUFACTURERS PROPRIETARY PRODUCTS

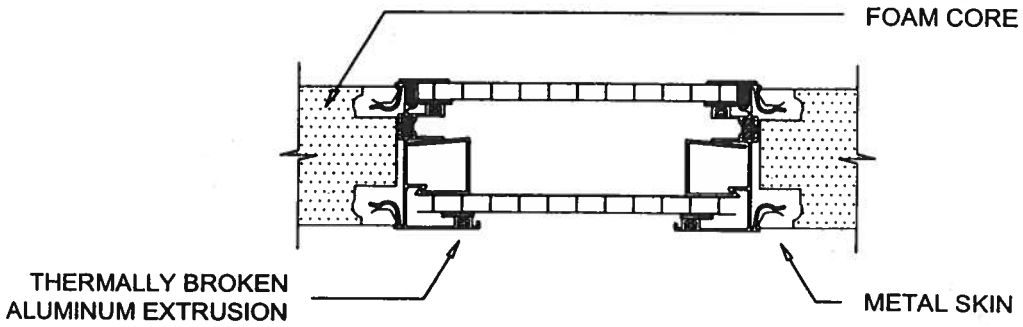


METALS USA BUILDING PRODUCTS L.P.
PRO-FAB COMPOSITE PANEL W/ EZ-LOK

SCALE: 3" = 1'-0"

Notes:

1) Total roof panel width = room width + wall width + overhang.
2) Spans may be interpolated between values but not extrapolated outside values.
3) The Sun Ray roof panel system is designed to span from support to support mated to a full 48" PRO-FAB panel between Sun Ray panels or between (2) 24" solid panels. Reference Table 7.3.6 or 7.3.7 for allowed spans of the Sun Ray roof panel system.



SUN RAY ROOF PANEL
3" x 24" - TWIN WALL FULL LENGTH SYSTEM

SCALE: 3" = 1'-0"

Lawrence E. Bennett, P.E. FL # 16644
CIVIL ENGINEER - DEVELOPMENT CONSULTANT
P.O. BOX 214368, SOUTH DAYTONA, FL 32121
TELEPHONE: (386) 767-4774
FAX: (386) 767-6556

METALS USA™
Building Products L.P.
7815 American Way, Groveland, FL 34736
TEL: (352) 787-7766 x202 FAX: (352) 429-2011
TOLL FREE: 1-800-342-9077 bkaufmann@metalsusa.com

Table 7.3.6 Allowable Spans for 0.024" PRO-FAB Composite Panels w/ EZ-LOCK for Various Loads Metals USA Building Products L.P.

Manufacturers Proprietary Products: Aluminum Alloy 3105 H-14 or H-25 Foam Core E.P.S. #1 Density

3" x 48" x 0.024" Roof Panel w/ EZ-LOCK

Wind Region	Open Structures Mono-Sloped Roof			Screen Rooms & Attached Covers			Glass & Modular Rooms Enclosed			Overhang / Cantilever All Roofs
	1&2 span	3 span	4 span	1&2 span	3 span	4 span	1&2 span	3 span	4 span	
100 MPH	21'-4"	23'-10"	23'-0"	20'-4"	22'-9"	21'-11"	15'-1"	17'-9"	16'-3"	4'-0"
110 MPH	21'-4"	23'-10"	23'-0"	18'-8"	20'-11"	20'-2"	13'-9"	15'-4"	14'-10"	4'-0"
120 MPH	20'-4"	22'-9"	21'-11"	17'-5"	19'-5"	18'-10"	12'-6"	13'-11"	13'-6"	4'-0"
123 MPH	19'-6"	21'-10"	21'-1"	15'-11"	18'-11"	18'-3"	11'-8"	13'-8"	13'-2"	4'-0"
130 MPH	18'-0"	20'-2"	19'-5"	15'-1"	17'-9"	16'-3"	11'-1"	12'-11"	12'-6"	4'-0"
140 MPH	12'-4"	13'-9"	13'-3"	12'-4"	13'-9"	13'-3"	10'-3"	11'-6"	11'-1"	4'-3"
150 MPH	12'-4"	13'-9"	13'-3"	12'-4"	13'-9"	13'-3"	9'-6"	10'-8"	10'-4"	3'-11"

4" x 48" x 0.024" Roof Panel w/ EZ-LOCK

Wind Region	Open Structures Mono-Sloped Roof			Screen Rooms & Attached Covers			Glass & Modular Rooms Enclosed			Overhang / Cantilever All Roofs
	1&2 span	3 span	4 span	1&2 span	3 span	4 span	1&2 span	3 span	4 span	
100 MPH	23'-5"	26'-2"	25'-3"	22'-3"	24'-11"	24'-1"	17'-5"	19'-6"	18'-10"	4'-0"
110 MPH	23'-5"	26'-2"	25'-3"	20'-6"	22'-11"	22'-2"	15'-1"	18'-0"	17'-5"	4'-0"
120 MPH	22'-3"	24'-11"	24'-1"	19'-1"	21'-4"	20'-7"	13'-9"	15'-4"	14'-10"	4'-0"
123 MPH	21'-5"	23'-11"	23'-2"	18'-6"	20'-9"	20'-0"	13'-5"	14'-11"	14'-6"	4'-0"
130 MPH	19'-9"	22'-1"	21'-4"	17'-5"	19'-6"	18'-10"	12'-8"	14'-2"	13'-8"	4'-0"
140 MPH	13'-6"	15'-1"	14'-7"	13'-6"	15'-1"	14'-7"	11'-3"	13'-3"	12'-9"	4'-0"
150 MPH	13'-6"	15'-1"	14'-7"	13'-6"	15'-1"	14'-7"	10'-5"	12'-4"	11'-4"	4'-0"

5" x 48" x 0.024" Roof Panel w/ EZ-LOCK

Wind Region	Open Structures Mono-Sloped Roof			Screen Rooms & Attached Covers			Glass & Modular Rooms Enclosed			Overhang / Cantilever All Roofs
	1&2 span	3 span	4 span	1&2 span	3 span	4 span	1&2 span	3 span	4 span	
100 MPH	26'-5"	29'-6"	28'-6"	25'-2"	28'-1"	27'-2"	19'-8"	21'-11"	21'-3"	4'-0"
110 MPH	26'-5"	29'-6"	28'-6"	23'-2"	25'-10"	24'-11"	18'-2"	20'-4"	19'-8"	4'-0"
120 MPH	25'-2"	28'-1"	27'-2"	21'-6"	24'-1"	23'-3"	15'-6"	18'-8"	18'-0"	4'-0"
123 MPH	24'-2"	27'-0"	26'-1"	20'-11"	23'-5"	22'-7"	15'-1"	18'-1"	17'-6"	4'-0"
130 MPH	22'-4"	24'-11"	24'-1"	19'-8"	21'-11"	21'-3"	14'-4"	15'-11"	15'-5"	4'-0"
140 MPH	15'-3"	17'-0"	16'-5"	15'-3"	17'-0"	16'-5"	13'-4"	14'-11"	14'-5"	4'-0"
150 MPH	15'-3"	17'-0"	16'-5"	15'-3"	17'-0"	16'-5"	12'-5"	13'-11"	13'-5"	4'-0"

6" x 48" x 0.024" Roof Panel w/ EZ-LOCK

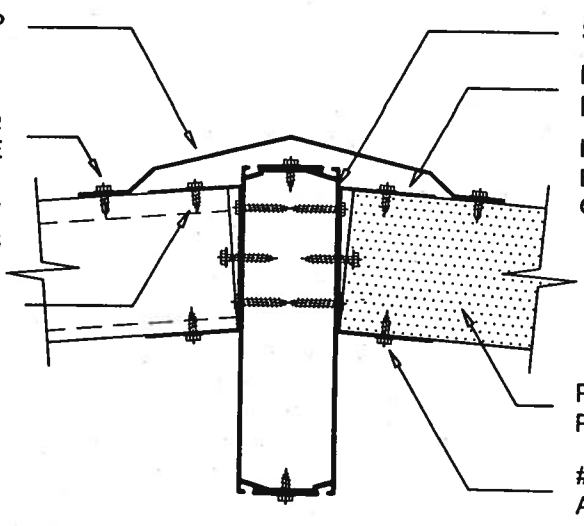
Wind Region	Open Structures Mono-Sloped Roof			Screen Rooms & Attached Covers			Glass & Modular Rooms Enclosed			Overhang / Cantilever All Roofs
	1&2 span	3 span	4 span	1&2 span	3 span	4 span	1&2 span	3 span	4 span	
100 MPH	29'-1"	32'-6"	31'-5"	27'-8"	30'-11"	29'-11"	21'-8"	24'-3"	23'-5"	4'-0"
110 MPH	29'-1"	32'-6"	31'-5"	25'-6"	28'-6"	27'-6"	20'-1"	22'-5"	21'-8"	4'-0"
120 MPH	27'-8"	30'-11"	29'-11"	23'-9"	26'-6"	25'-8"	18'-5"	20'-7"	19'-10"	4'-0"
123 MPH	26'-8"	29'-9"	28'-9"	23'-1"	25'-9"	24'-11"	17'-10"	19'-11"	19'-3"	4'-0"
130 MPH	24'-7"	27'-6"	26'-6"	21'-8"	24'-3"	23'-5"	15'-9"	18'-9"	18'-2"	4'-0"
140 MPH	16'-9"	18'-9"	18'-2"	16'-9"	18'-9"	18'-2"	14'-9"	17'-4"	15'-11"	4'-0"
150 MPH	16'-9"	18'-9"	18'-2"	16'-9"	18'-9"	18'-2"	13'-8"	15'-4"	14'-10"	4'-0"

Note: Total roof panel width = room width + wall width + overhang

METALS USA™
Building Products L.P.
7815 American Way, Groveland, FL 34736
TEL: (352) 787-7766 x202 FAX: (352) 429-2011
TOLL FREE: 1-800-342-9077 bkaufmann@metalsusa.com

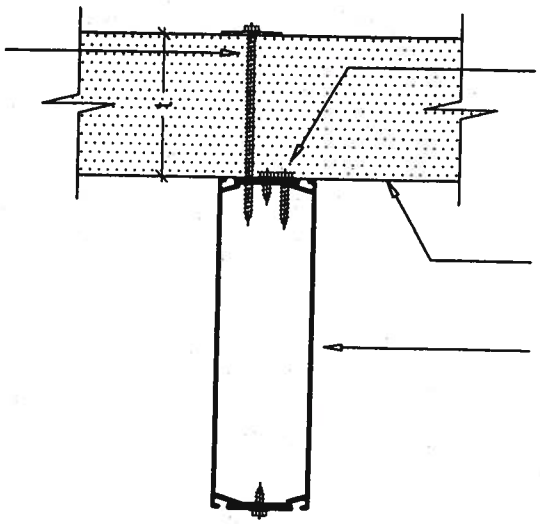
Lawrence E. Bennett, P.E. FL # 16644
CIVIL ENGINEER - DEVELOPMENT CONSULTANT
P.O. BOX 214368, SOUTH DAYTONA, FL 32121
TELEPHONE: (386) 767-4774
FAX: (386) 767-6556

PAN ROOF ANCHORING DETAILS



ROOF PANEL TO BEAM DETAIL

SCALE: 3" = 1'-0"



ROOF PANEL TO BEAM FASTENING DETAIL

SCALE: 3" = 1'-0"

Lawrence E. Bennett, P.E. FL # 16644
CIVIL ENGINEER - DEVELOPMENT CONSULTANT
P.O. BOX 214368, SOUTH DAYTONA, FL 32121
TELEPHONE: (386) 767-4774
FAX: (386) 767-6556

Table 2.1.1 A-110 Allowable Roof Beam Spans for Freestanding Carports or Patio Covers with Mono-Sloped* Roofs

For 3 sec. wind gust for 110 MPH velocity;
Using design load of 10 #/SF (36 #/SF for Max. Cantilever)
Aluminum Alloy 6063 T-6

2" x 3" x 0.045" Hollow					2" x 3" x 0.050" Hollow Tilt				
Load	Max. Span 'L'/(bending 'b' or deflection 'd')				Load	Max. Span 'L'/(bending 'b' or deflection 'd')			
Width (ft.)	1&2 Span	3 Span	4 Span	Max. Cantilever	Width (ft.)	1&2 Span	3 Span	4 Span	Max. Cantilever
4	8'-4" d	10'-3" d	10'-6" d	1'-7" d	4	8'-2" d	10'-1" d	10'-4" d	1'-7" d
5	7'-9" d	9'-6" d	9'-9" d	1'-6" d	5	7'-7" d	9'-5" d	9'-7" d	1'-6" d
6	7'-3" d	8'-11" d	9'-1" b	1'-5" d	6	7'-2" d	8'-10" d	8'-11" b	1'-5" d
7	6'-11" d	8'-6" d	8'-5" b	1'-4" d	7	6'-9" d	8'-5" d	8'-3" b	1'-4" d
8	6'-7" d	8'-2" d	7'-11" b	1'-3" d	8	6'-6" d	7'-11" b	7'-8" b	1'-3" d
9	6'-4" d	7'-8" b	7'-5" b	1'-3" d	9	6'-3" d	7'-6" b	7'-3" b	1'-2" d
10	6'-2" d	7'-4" b	7'-1" b	1'-2" d	10	6'-0" d	7'-1" b	6'-11" b	1'-2" d
11	5'-11" d	6'-11" b	6'-9" b	1'-2" d	11	5'-10" d	6'-10" b	6'-7" b	1'-2" d
12	5'-9" d	6'-8" b	6'-5" b	1'-1" d	12	5'-8" d	6'-6" b	6'-3" b	1'-1" d
2" x 4" x 0.045" Hollow Tilt					2" x 4" x 0.044" x 0.100" Self Mating Beam				
Load	Max. Span 'L'/(bending 'b' or deflection 'd')				Load	Max. Span 'L'/(bending 'b' or deflection 'd')			
Width (ft.)	1&2 Span	3 Span	4 Span	Max. Cantilever	Width (ft.)	1&2 Span	3 Span	4 Span	Max. Cantilever
4	10'-4" d	12'-9" d	13'-0" d	1'-11" d	4	12'-0" d	14'-10" d	15'-2" d	2'-4" d
5	9'-7" d	11'-10" d	11'-11" b	1'-10" d	5	11'-2" d	13'-10" d	14'-1" d	2'-2" d
6	9'-0" d	11'-2" d	10'-11" b	1'-9" d	6	10'-6" d	12'-11" d	13'-3" d	2'-0" d
7	8'-7" d	10'-6" b	10'-1" b	1'-8" d	7	9'-11" d	12'-4" d	12'-7" d	1'-11" d
8	8'-2" d	9'-10" b	9'-6" b	1'-7" d	8	9'-7" d	11'-10" d	11'-10" b	1'-10" d
9	7'-11" d	9'-3" b	8'-11" b	1'-6" d	9	9'-2" d	11'-4" d	11'-2" b	1'-9" d
10	7'-7" d	8'-9" b	8'-6" b	1'-6" d	10	8'-10" d	10'-11" b	10'-7" b	1'-9" d
11	7'-5" d	8'-4" b	8'-1" b	1'-5" d	11	8'-7" d	10'-5" b	10'-1" b	1'-8" d
12	7'-2" b	7'-11" b	7'-9" b	1'-5" d	12	8'-4" d	9'-11" b	9'-8" b	1'-7" d
2" x 5" x 0.050" x 0.100" Self Mating Beam					2" x 6" x 0.050" x 0.120" Self Mating Beam				
Load	Max. Span 'L'/(bending 'b' or deflection 'd')				Load	Max. Span 'L'/(bending 'b' or deflection 'd')			
Width (ft.)	1&2 Span	3 Span	4 Span	Max. Cantilever	Width (ft.)	1&2 Span	3 Span	4 Span	Max. Cantilever
4	14'-11" d	18'-5" d	18'-10" d	2'-11" d	4	17'-6" d	21'-7" d	21'-11" d	3'-4" d
5	13'-10" d	17'-1" d	17'-5" d	2'-8" d	5	16'-2" d	20'-0" d	20'-5" d	3'-2" d
6	13'-0" d	16'-1" d	16'-5" d	2'-6" d	6	15'-3" d	18'-10" d	19'-3" d	2'-11" d
7	12'-5" d	15'-3" d	15'-7" d	2'-5" d	7	14'-6" d	17'-11" d	18'-1" b	2'-10" d
8	11'-10" d	14'-7" d	14'-8" b	2'-3" d	8	13'-10" d	17'-1" d	16'-11" b	2'-8" d
9	11'-5" d	14'-1" d	13'-10" b	2'-2" d	9	13'-4" d	16'-5" d	15'-11" b	2'-7" d
10	10'-11" d	13'-7" b	13'-1" b	2'-1" d	10	12'-10" d	15'-8" b	15'-2" b	2'-6" d
11	10'-8" d	12'-11" b	12'-6" b	2'-1" d	11	12'-6" d	14'-11" b	14'-5" b	2'-5" d
12	10'-4" d	12'-4" b	11'-11" b	1'-11" d	12	12'-1" d	14'-4" b	13'-10" b	2'-4" d

* Mono-sloped roofs include gables where the slope of the roof is less than 1" in 12".

Notes:

1. Above spans do not include length of knee brace. Add horizontal distance from upright to center of brace to beam connection to the above spans for total beam spans.
2. Spans may be interpolated.

Lawrence E. Bennett, P.E. FL # 16644
CIVIL ENGINEER - DEVELOPMENT CONSULTANT
P.O. BOX 214368, SOUTH DAYTONA, FL 32121
TELEPHONE: (386) 767-4774
FAX: (386) 767-6556

Table 2.3 **Schedule of Post to Beam Size and Number of Thru-Bolts Required**

Aluminum Alloy 6063 T-6

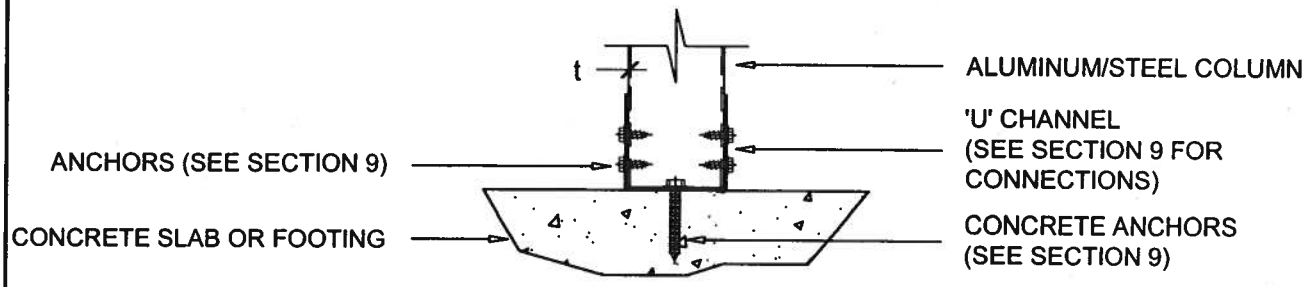
Beam Size	Minimum Post Size	# Thru-Bolts @ L=D+½"		Minimum Knee Brace*	Minimum # Knee Brace Screws
		1/4" ø	3/8" ø		
Hollow Sections					
2" x 3" x 0.050" Hollow Tilt	2" x 2"x 0.044" or 2" x 2"x 0.045" Snap	2**	-	2" x 3" x 0.050"	(3) #8
2" x 4" x 0.050" Hollow	2" x 3"x 0.045" Hollow 2" x 3"x 0.045" Snap	2**	-	2" x 3" x 0.050"	(3) #8
Self Mating Beams					
2" x 4" x 0.038" X 0.100	3" x 3"x 0.060" Scalloped	2	-	2" x 3" x 0.050"	(3) #8
2" x 5" x 0.050" X 0.100	3" x 3"x 0.060" Scalloped	2	-	2" x 3" x 0.050"	(3) #8
2" x 6" x 0.050" X 0.120	3" x 3"x 0.060" Scalloped	2	-	2" x 3" x 0.050"	(3) #10
2" x 7" x 0.055" x 0.120"	3" x 3" x 0.093"	3	2	2" x 4" x 0.050"	(3) #10
2" x 7" x 0.055" x 0.120" w/ insert	3" x 3" x 0.093"	3	2	2" x 4" x 0.050"	(3) #10
2" x 8" x 0.072" x 0.224"	3" x 3" x 0.093"	3	2	2" x 4" x 0.050"	(3) #12
2" x 9" x 0.072" x 0.224"	3" x 3" x 0.125"	4	3	2" x 4" x 0.050"	(3) #14
2" x 9" x 0.082" x 0.306"	3" x 3" x 0.125"	4	3	2" x 4" x 0.050"	(3) #14
2" x 10" x 0.092" x 0.369"	4" x 4" x 0.125"	6	4	2" x 4" x 0.050"	(4) #14

The minimum number of thru bolts is (2)

*** Minimum post/beam may be used as minimum knee brace**

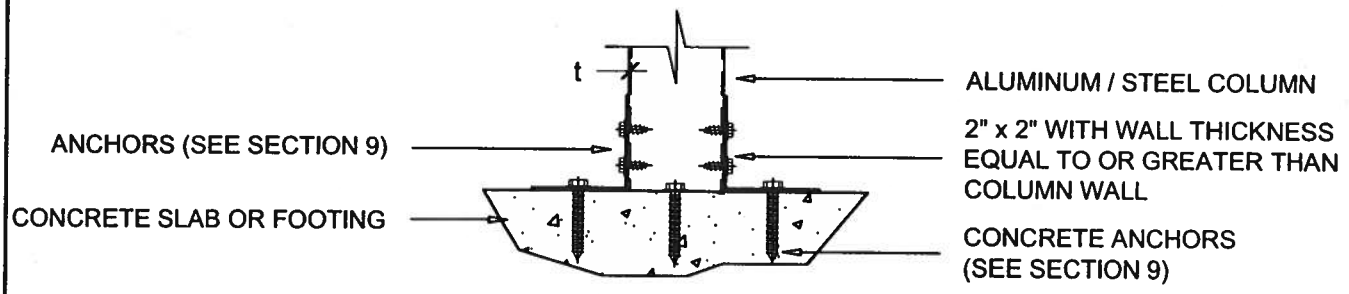
**** Fasten w/ external screws or clips. See Details.**

Lawrence E. Bennett, P.E. FL # 16644
CIVIL ENGINEER - DEVELOPMENT CONSULTANT
P.O. BOX 214368, SOUTH DAYTONA, FL 32121
TELEPHONE: (386) 767-4774
FAX: (386) 767-6556



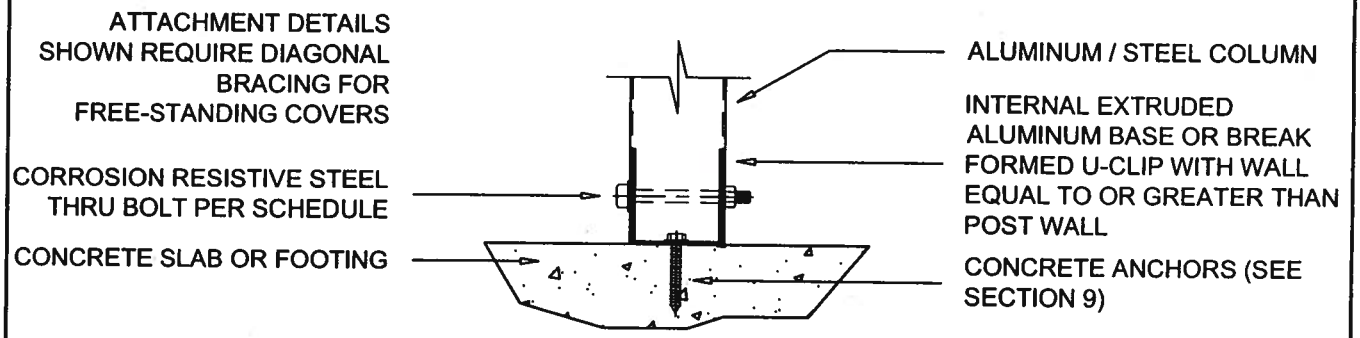
POST TO CONCRETE CONNECTION
INTERNAL OR EXTERNAL RECEIVING CHANNEL

SCALE: 3" = 1'-0"



POST TO CONCRETE CONNECTION
INTERNAL OR EXTERNAL ANGLE CLIPS

SCALE: 3" = 1'-0"



POST TO CONCRETE CONNECTION
TUBE COLUMN BASE SCHEMATIC INTERNAL BASE

SCALE: 3" = 1'-0"

Lawrence E. Bennett, P.E. FL # 16644
CIVIL ENGINEER - DEVELOPMENT CONSULTANT
P.O. BOX 214368, SOUTH DAYTONA, FL 32121
TELEPHONE: (386) 767-4774
FAX: (386) 767-6556

NOTICE OF COMMENCEMENT

PERMIT NUMBER: _____

STATE OF: FLORIDA COUNTY OF: Columbia CITY OF: _____

THE UNDERSIGNED HEREBY gives notice that improvement(s) will be made to certain real property, and in accordance with Chapter 713, Florida Statutes, the following information is provided in this Notice of Commencement.

DESCRIPTION OF PROPERTY

LOT: 20 BLOCK: _____ SECTION: _____ TOWNSHIP: _____ RANGE: _____

TAX PARCEL NUMBER: 11-4S-16-02905-420

SUBDIVISION: Crest Point PLATBOOK: _____ MAP PAGE: _____

STREET ADDRESS: 250 SW Story Place Lake City, Fla. 32024

GENERAL DESCRIPTION OF IMPROVEMENTS

TO CONSTRUCT: 3-Seasons screen room

OWNER INFORMATION

OWNER NAME: Judy Ann Stiles

ADDRESS: 250 S.W. STORY PLACE PHONE NUMBER: 386-752-1740

CITY: Lake City STATE: Fl ZIP CODE: 32024

INTEREST IN PROPERTY: _____

FEE SIMPLE TITLEHOLDER NAME: _____

FEE SIMPLE TITLEHOLDER ADDRESS: _____

(if other than owner)

Inst:2006014287 Date:06/13/2006 Time:13:33
DC,P.DeWitt Cason,Columbia County B:1086 P:1796

CONTRACTOR NAME: Richardson Aluminum L.L.C

ADDRESS: 692 S.W. Arlington Blvd PHONE NUMBER: 386-755-5779

CITY: Lake City STATE: Fla. ZIP CODE: 32025

BONDING COMPANY: _____

ADDRESS: _____ PHONE NUMBER: _____

CITY: _____ STATE: _____ ZIP CODE: _____

LENDER NAME: _____

ADDRESS: _____ PHONE NUMBER: _____

CITY: _____ STATE: _____ ZIP CODE: _____

Persons within the State of Florida designated by Owner upon whom notices or other documents may be served as provided by Section 713.13(1)(a) 7., Florida Statutes:

NAME: _____ ADDRESS: _____

In addition to himself, Owner designates _____

of _____ to receive a copy of Lienor's Notice as provided in Section 713.13(1)(b), Florida Statutes.

Expiration date is one (1) year from date of recording unless a different date is specified.

SIGNATURE OF OWNER: Judy Ann Stiles

SWORN to and subscribed before me this 28th day of April 2006 A.D. 2004.

Notary Public: _____

My commission Expires:

NOTARY PUBLIC STATE OF FLORIDA (407) 398-0153

AMY MARTS
MY COMMISSION # DD458730
EXPIRES: Aug. 7, 2009
Florida Notary Service.com

CERTIFICATE OF OCCUPANCY

COLUMBIA COUNTY, FLORIDA

Department of Building and Zoning Inspection

This Certificate of Occupancy is issued to the below named permit holder for the building and premises at the below named location, and certifies that the work has been completed in accordance with the Columbia County Building Code.

Parcel Number 11-4S-16-02905-420 **Building permit No.** 000024623

Use Classification SCREEN ROOM **Fire:** 0.00

Permit Holder VINCE RICHARDSON **Waste:** 0.00

Owner of Building JUDY STILES **Total:** 0.00

Location: 250 SW STORY PLACE(CREST POINTE, LOT 20)

Date: 07/12/2006

Building Inspector

POST IN A CONSPICUOUS PLACE
(Business Places Only)