Columbia County Building Permit Application

For Office Use Only Application # 0712-46 Date Received 1/14/01 By G Permit # 26529
Zoning Official Date 12 17 07 Flood Zone N/A FEMA Map # Zoning RSF-2
Land Use River Plans Examiner OF 571/ Date 12 - 17-37
Comments
NOC DEH Deed or PA Site Plan - State Road Info - Parent Parcel # Dev Permit #
□ Unincorporated area □ Incorporated area □ Town of Fort White Compliance letter □ In Floodway Fox 352 - ৰ্ম ২ - ১৯ ১১
Name Authorized Person Signing Permit LARRY Colé Phone 351-473-6850
Address 25370 NW 8th Place Newberry, FL 32669
Owners Name Carol Gordon Phone 386 - 758 - 0067
911 Address 122 SW Ridge of 100 Pl. Lake City, FL
Contractors Name Carl R. Helms Timberlake Aluminum Const. Phone 352-472-6850
Address 25370 NW 8 Place Newberry FL 32669
Fee Simple Owner Name & Address A/A
Bonding Co. Name & Address
Architect/Engineer Name & Address Lawrence Bennett Po Box 219368 S. Dafona, FL 32121
Mortgage Lenders Name & Address
Circle the correct power company - FL Power & Light - Clay Elec Suwannee Valley Elec Progressive Energy
Property ID Number 33 -35 -16 -02934 - 018 - HX Estimated Cost of Construction 17 225 00
Subdivision Name Cypress Lake Lot Block B Unit Phase
Driving Directions Heat @ on NE Hosparde Ave Jaward NE Justice Zie; turn (a) of NE Medison
(D) at N Morion Are /45-44; (R) at W Donal St/US-90; (D) at SW Sweetbreeze Dr.; (P) at SW
Ridgerieus Pl., 15+ 10+ on 18++.
Type of Construction <u>Screen enclosure over existing pail</u> Number of Existing Dwellings on Property
Total Acreage 1.137 Lot Size Do you need a - <u>Culvert Permit</u> or <u>Culvert Waiver</u> or <u>Have an Existing Drive</u>
Actual Distance of Structure from Property Lines - Front $50' + $ Side $50' + $ Side $100' + $ Rear $100' + $
Total Building Height/ Number of Stories/ Heated Floor Area Roof Pitch <i>n(a</i>
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.
VARNING TO OWNER: YOUR FAILURE TO RECORD A NOTICE OF COMMENCMENT MAY RESULT IN YOU PAYING WICE FOR IMPROVEMENTS TO YOUR PROPERTY. IF YOU INTEND TO OBTAIN FINANCING, CONSULT WITH YOUR NDER OR ATTORNEY BEFORE RECORDING YOUR NOTICE OF COMMENCEMENT. Stary Signature Contractor Signature
Contraction of icense ARRIVER COLE 2205616
COUNTY OF COLUMBIA Competer by Cand Chamberlon # DD677975 NOTAR STATE OF FLORIDA NOTAR STATE OF FLORIDA
Sworn to (or affirmed) and subscribed before me
this 8 day of DECEMBER 2009.
Personally known - Or Produced Identification Notary Signature (Revised Oct. 2007)

Columbia County Property Appraiser DB Last Updated: 11/15/2007

2008 Proposed Values

Tax Record Property Card Interactive GIS Map

Print

Parcel: 33-3S-16-02434-018

Owner & Property Info

Owner's Name	GORDON CARC	NANN								
Site Address	RIDGEVIEW									
Mailing Address		118 BOLIVAR ST CHATTAHOOCHEE, FL 32324								
Use Desc. (code)	SINGLE FAM (000100)									
Neighborhood	33316.02	Tax District	2							
UD Codes	MKTA06	Market Area	06							
Total Land Area	1.137 ACRES		•							
Description		CYPRESS LAKE S/D 40-1309, WD 1127-2								

<< Prev

Search Result: 4 of 18

Next >>





Property & Assessment Values

Mkt Land Value	cnt: (1)	\$42,500.00
Ag Land Value	cnt: (0)	\$0.00
Building Value	cnt: (1)	\$115,462.00
XFOB Value	cnt: (6)	\$14,686.00
Total Appraised Value		\$172,648.00

\$172,648.00
\$0.00
\$172,648.00
\$0.00
\$172,64 8.00

Sales History

Sale Date	Book/Page	Inst. Type	Sale VImp	Sale Qual	Sale RCode	Sale Price
8/6/2007	1127/2465	WD	I	Q		\$225,000.00
7/31/1990	740/1309	WD	I	Q		\$87,000.00
3/31/1989	680/584	WD	I	Q		\$98,500.00

Building Characteristics

Bldg Item	Bldg Desc	Year Blt	Ext. Walls	Heated S.F.	Actual S.F.	Bldg Value	
1	SINGLE FAM (000100)	1988	Vinyl Side (31)	1832	2468	\$115,462.00	
	Note: All S.F. calculatio	ns are base	ed on exterior bu	uilding dimensio	ons.		

Extra Features & Out Buildings

Code	Desc	Year Blt	Value	Units	Dims	Condition (% Good)
0166	CONC,PAVMT	0	\$1,030.00	1.000	0 x 0 x 0	(.00)
0180	FPLC 1STRY	0	\$2,300.00	1.000	0 x 0 x 0	(.00)
0258	PATIO	0	\$300.00	1.000	0 x 0 x 0	(.00)
0280	POOL R/CON	1993	\$9,331.00	648.000	36 x 18 x 0	(.00)
0294	SHED WOOD/	1993	\$1,125.00	200.000	10 x 20 x 0	AP (25.00)

	NOTICE OF COMMENCEMENT
	STATE OF FLORIDA COUNTY OF COLUMBIA CITY OF LAGE CITY
	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 5 BLOCK SECTION Phase T TOWNSHIP - RANGE
	TAX PARCEL # 27 65 16 03951 - 105
	SUBDIVISION: FOXWOOD
(911)	PLATBOOK: MAP PAGE# STREETADDRESS: 250 5 00 000 000 000 000 000 000 000 00
(, , ,)	STREETADDRESS: 250 S.W. Vargue Way
	GENERAL DESCRIPTION OF IMPROVEMENT:
	TO CONSTRUCT: Screen Enclosure
	OWNER INFORMATION:
-	OWNER(S)NAME: George Mortensen
1	ADDRESS: 25050 Vangue Way PHONE 516 318 6487 CITY: STATE F1 ZIP 32038
	INTEREST IN THE PROPERTY: Owner
	FEE SIMPLE TITLEHOLDER NAME: N
	FEE SIMPLE TITLEHOLDER ADDRESS:(IF OTHER THAN OWNER)
	CONTRACTOR NAME: Timber of Palacious
	Address: 25370 h) 84 h Dewbert F
	BONDING COMPANY: N/AADDRESS: N/A PHONE NUMBER N/A
	CITY: N/A STATE N/A ZIP CODE: N/A
	LENDER NAME: None
	ADDRESS :n/a PHONE N/A Inst; 200712027499 Date: 12/14/2007 Time: 10:38 AM CITY: N/A STATE N/A Zip: N/A DC, P. DeWitt Cason, Columbia County Page 1 of 1
	CITTIVA STATE IVAZIP. IVA
	Prepared by: Peeler Pools, Inc. (Raymond Peeler)
	Return to : Peeler Pools, Inc. 9878 S. US Hwy 441 Lake City, Fl 32025
	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: None ADDRESS: N/A
	In addition to himself, Owner designates: Raymond Peeler of Peeler Pools, Inc.
	9878 S US Hwy 441 Lake City, Fl 32025 to receive a copy of the Lienor's Notice as provided in Section 713.13 (1) (b), Florida Statutes.
	4
	Expiration date is 1 year from date of recording unless a different date is specified.
	SIGNATURE OF OWNER SIGNATURE OF
	SWORN to and subscribed before me this of day of September year of 2007 County No. 01PERCES 14
	Notary PublicMy commission expires No. 01PE0050614
	Signature: May Pesserell
	A second

***WARNING TO OWNER: ANY PAYMENTS MADE BY THE OWNER AFTER THE EXPIRATION OF NOTICE OF COMMENCEMENT ARE CONSIDERED IMPROPER PAYMENTS UNDER CHAPTER 713, PART 1, SECTION 713.13, FLORIDA STATUTES, AND CAN RESULT IN YOURPAYING TWICE FOR IMPROVEMENTS TO YOUR PROPERTY. A NOTICE OF COMMENCEMENT MUST BE RECORDED AND POSTED ON THE JOB SITE BEFORE THE FIRST INSPECTION. IF YOU INTEND TO OBTAIN FINANCING, CONSULT WITH YOUR LENDER OR AN ATTORNEY BEFORE COMMENCING WORK OR RECORDING YOUR NOTICE OF COMMENCEMENT.

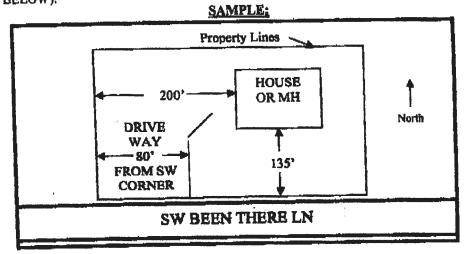
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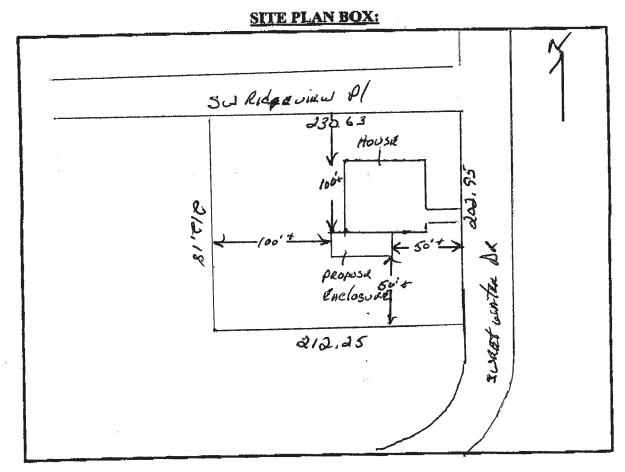
1. A PLAT, PLAN, OR DRAWING SHOWING THE PROPERTY LINES OF THE PARCEL.

2. LOCATION OF PLANNED RESIDENT OR BUSINESS STRUCTURE ON THE PROPERTY WITH DISTANCES FROM AT LEAST TWO OF THE PROPERTY LINES TO THE STRUCTURE (SEE SAMPLE BELOW).

3. LOCATION OF THE ACCESS POINT (DRIVEWAY, ETC.) ON THE ROADWAY FROM WHICH LOCATION IS TO BE ADDRESSED WITH A DISTANCE FROM A PARALLEL PROPERTY LINE AND OR PROPERTY CORNER (SEE SAMPLE BELOW).

4. TRAVEL OF THE DRIVEWAY FROM THE ACCESS POINT TO THE STRUCTURE (SEE SAMPLE BELOW).





Page 2 of 2

Design Check List for Pool Enclosures (Page 1 of 4)

I.	Design Statement:		
Si 'B Ne pr pr	ese plans have been designed in accordance with the Aluminum Structures Design Manuvernce E. Bennett and are in compliance with the 2004 Florida Building Code Edition with polyments, Chapter 20, ASM35 and The 2005 Aluminum Design Manual Part I-A & II-A; or 'C' or 'D'; Importance Factor 0.87 for 100 MPH and 0.77 for 110 MPH and gative I.P.C. 0.00; MPH Wind Zone for 3 second wind gust; Basic Wind Pressure sures are PSF for roofs & PSF for walls. (see page 1ii for wind loads and designstances) A 300 PLF point load is also considered for screen roof members. **tes: Wind velocity zones and exposure category is determined by local code. Design proconversion multipliers are on page 1-ii.	h 2006 Exposur higher; ; Desi gn	gn
II.	Host Structure Adequacy Statement:		
	I have inspected and verify that the host structure is in good repair and attachments made	de to the	
	structure will be solid.		
	Carl B-Helms Phone: 352-472-6850		
	Contractor / Authorized Rep* Name (please print)		
	Date:		
	Contractor / Authorized Rep* Signature		
	Carol Gordon 122 SW Ridgeview Pl. Lake City, FL		
	Job Name & Address		
	Note: If the total of beam span & upright height exceeds 50' or upright height exc	ande	
	16', site specific engineering is required.	5505	
Ш.	Building Permit Application Package contains the following:	Yes	No
	A. Project name & address on plans		
	B. Site plan or survey with enclosure location		
	C. Contractor's / Designer's name, address, phone number, & signature on plans		
	D. Site exposure form completed		
	E. Enclosure layout drawing @ 1/8" or 1/10" scale with the following:		
	Plan view with host structure, enclosure length, projection from host structure,		
	and all dimensions		
	2. Front and side elevation views with all dimensions & heights		
	Note: All mansard wall drawings shall include mansard panel at the top of the wall.		
	3. Beam location (show in plan & elevation view) & size		
	(Table 1.1 & 1.6)		
	Roof frame member allowable span conversions from 120 MPH wind zone,		
	"B" Exposure to MPH wind zone and / or 'C" or 'D" Exposure for load		
	width of:		
	Note: Conversion factors do not apply to members subject to point load (P).		
	Look up span in appropriate 120 MPH span table and apply the following formula:		
	Span —— Required 0		ed
	@ 120 MPH Span / Hei	ght	
	0.00 (b or d) x 1.00 (b or d) x 1.00 (b or d) =		
	Wind Zone Multiplier		
	(see page 1ii) (see page 1ii)		
	 Upright location (show in plan & elevation view) & size (Table 1.3 & 1.6) 		
	5. Chair rail & girt size, length, & spacing		
	(Table 1.4) 6. Eave rail size, length, spacing and stitching of		
	(Table 1.2)		

^{*} Must have attended Engineer's Continuing Education Class within the past two years.

Design Check List for Pool Enclosures (Page 2 of 4)

Wall frame member allowable span conversions from 120 MPH wind zone, "B" Exposure to MPH wind zone and / or C" or D" Exposure for load width of 1.00 : Look up span in appropriate 120 MPH span table and apply the following formula: Required Converted Span / Height Span / Height @ 120 MPH or ___ MPH 0.00 (b or d) x 1.00 (b or d) x 1.00 (b or d) = Wind Zone **Exposure Multiplier** Multiplier ** (see page 1ii) Yes No 7. Enclosure roof diagonal bracing in plan view 8. Knee braces length, location, & size (Table 1.7) 1 9. Wall cables or K-bracing sizes shown in wall views IV. Highlight details from the Aluminum Structures Design Manual: Yes A. Beam & purlin tables with size, thickness, spacing, & spans / lengths (Tables 1.1 & 1.2 or 1.9.1 & 1.9.2) B. Upright & girt tables with size, thickness, spacing, & spans / lengths (Tables 1.3 & 1.4) \checkmark C. Table 1.6 with beam & upright combination D. Connection details to be use such as: Beam to upright : 2. Beam to wall. 3. Beam to beam 4. Chair rail, purlins, & knee braces 5. Extruded gutter connections 6. Angle to deck and / or sole plate 7. Anchors go through pavers into concrete 8. Minimum footing and / or knee wall details 9. Cable or K- brace details Section 1 Wall area calculations for cables: W = wall width, H = wall height, R = rise W1 = width @ top of mansard, W2 = width @ top of wall E. Select footing from examples in manual. Example 1: Flat Roof $\frac{\text{ft. x}}{\text{W}} = \frac{0.00}{\text{ft.}^2} \text{ ft.}^2 \text{ @ } 100\% = \frac{0.00}{\text{ft.}^2} \text{ ft.}^2$ Largest side wall: $\underline{\qquad}$ ft. x $\underline{\qquad}$ ft. = $\underline{\qquad}$ 0.00 ft.² @ 50% = $\underline{\qquad}$ TOTAL = Total area / (233 ft.² / cable for 3/32") = ___0 cable pairs Total area / (445 ft.2 / cable for 1/8") = 0 cable pairs __0.00_ ft.2 Side wall cable calculation: _0.00_ft.2 @ 100% = Side wall area / $(233 \text{ ft.}^2 / \text{ cable for } 3/32") = 0 _cable(s)$ Side wall area / (445 ft.² / cable for 1/8") = 0 cable(s)

Design Check List for Pool Enclosures (Page 4 of 4)

Example 4: Mansard Roof

Front wall @ eave:
$$\frac{56.00}{W}$$
 ft. $\times \frac{9.00}{W}$ ft. $= \frac{504.00}{W}$ ft. $= \frac{504.00}{R}$ ft. $\times \frac{1/2(\frac{44.00}{44.00} \text{ ft.} + \frac{56.00}{W} \text{ ft.})}{150.00}$ ft. $= \frac{150.00}{R}$ ft. $= \frac{150$

Total area / (445 ft.2 / cable for 1/8") = 0 cable pairs

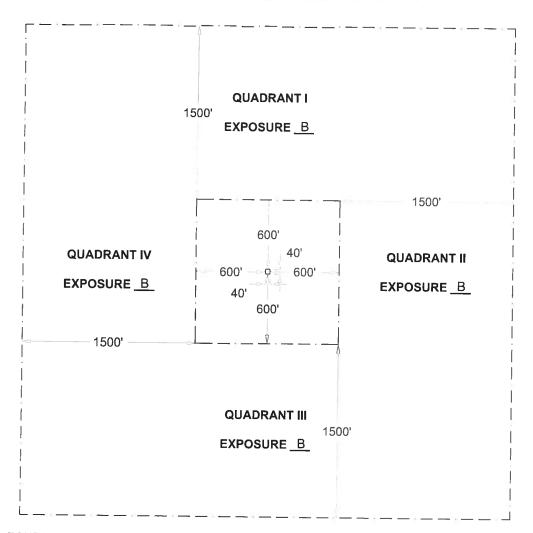
Side wall cable calculation: $\frac{0.00}{c}$ ft.² + $\frac{0.00}{d}$ ft.² = $\frac{0.00}{c}$ ft.² @ 100% = 0.00 ft.2

Side wall area / $(233 \text{ ft.}^2 / \text{ cable for } 3/32") = __0 _ cable(s)$

Side wall area / (445 ft. 2 / cable for 1/8") = $_0$ cable(s)

Notes:

SITE EXPOSURE EVALUATION FORM



NOTE: ZONES ARE MEASURED FROM STRUCTURE OUTWARD

SITE

SCALE: 1" = 800'

USING THE FOLLOWING CRITERIA, EVALUATE EACH QUADRANT AND MARK IT AS 'B', 'C', OR 'D' EXPOSURE. 'C' OR 'D' EXPOSURE IN ANY QUADRANT MAKE THE SITE THAT EXPOSURE.

EXPOSURE C: 1. OPEN TERRAIN FOR MORE THAN 1,500 FEET IN ANY QUADRANT.

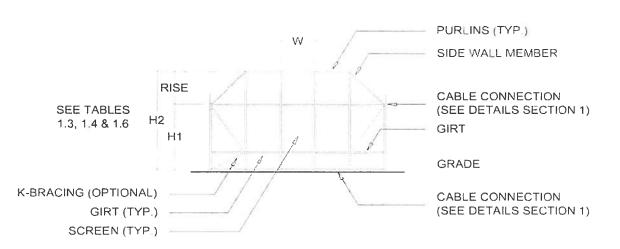
- 2. ANY 'C' EXPOSURE FOR GREATER THAN 600 FEET IN ANY QUADRANT.
- 3. NO SHORT TERM CHANGES IN 'B', 2 YEARS BEFORE SITE EVALUATION AND BUILD OUT WITHIN 3 YEARS, SITE WILL BE 'B'.
- 4. FLAT, OPEN COUNTRY, GRASSLANDS, PONDS AND OCEAN OR SHORELINES IN ANY QUADRANT FOR GREATER THAN 1,500 FEET.

EXPOSURE D:

FLAT, UNOBSTRUCTED AREAS THAT ARE 1,500 FT INLAND FROM THE SHORE LINE AND ARE EXPOSED TO WIND FLOWING OVER WATER FOR A DISTANCE OF AT LEAST 1 MILE.

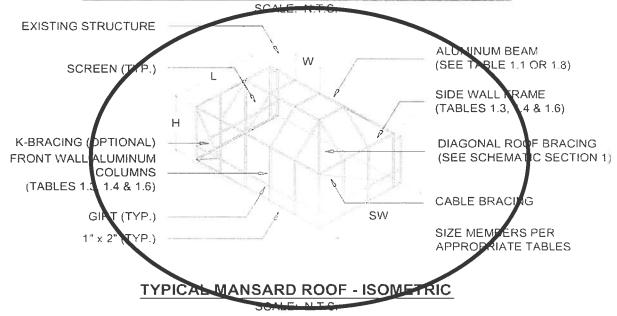
SITE IS EXPOSURE: B EVALUATED BY: Carl R. Helms	DATE: _	
SIGNATURE: LICENSE #: SCC056710		





NOTE: USE H2 FOR CABLE AREA CALCULATION

TYPICAL MANSARD ROOF - FRONT WALL ELEVATION



CONNECTION DETAILS AND NOTES ARE FOUND IN THE SUBSEQUENT PAGES.

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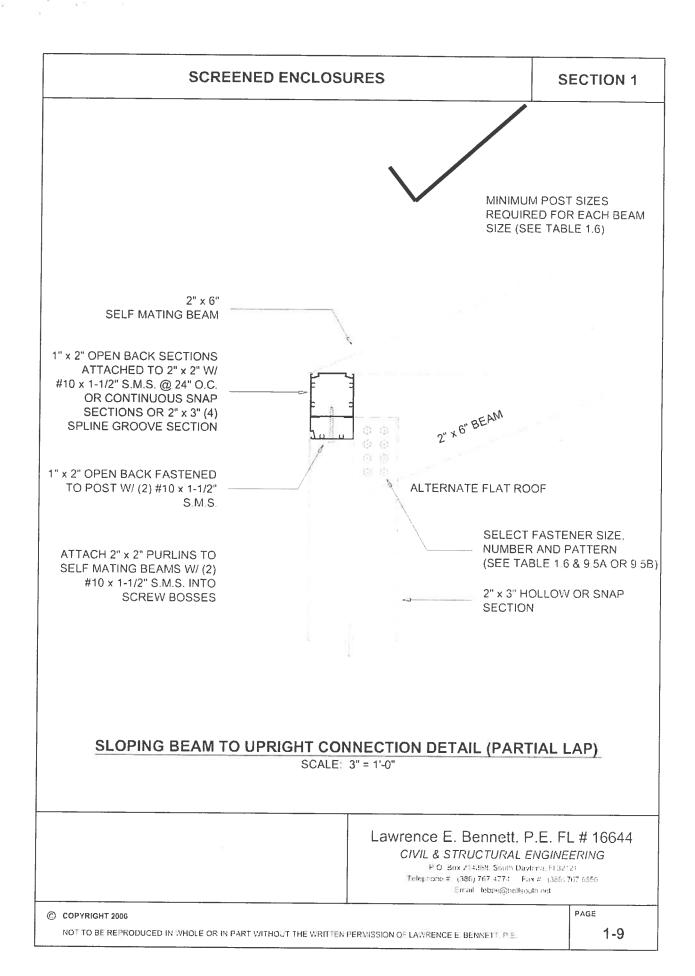
P O Box 214368, South Daytona F132121 Telephone #: (386) 767-4774 Fax #: (386) 767-6556 Email lebpe@bellsouthinet

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SECTION 1

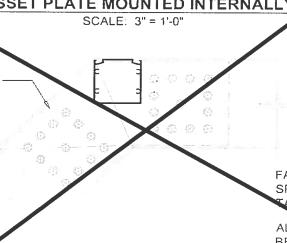
SCREENED ENCLOSURES

CUT 2" x 4", 2" x 5", OR 2" x 6" BEAMS TO SLIDE OVER EACH 2" x 2" PURLINS ATTACHED ONER 2" x 7" & LARGER TO BEAM W. MIN. PROVIDE GUSSET PLATE (3) #10 x 1-1/2 S.M.S. (INSIDE OR OUTSIDE BEAM) SAME WALL THICKNESS AS BEAM WALLS OR LARGER (SEE TABLE 1.6) MINIMUM SPACING (PER TABLE 1.6) (SEE SPLICING DETAIL PAGE 1-21)

STENER SIZE, NUMBER AND SPACING PER PAGE 1-20(SEE **TABLE 1.6)**

ALTERNATE SIDE PLATE CONNECTION DETAIL **GUSSET PLATE MOUNTED INTERNALLY**

CUT 2" x 4", 2" x 5", OR 2" 6" BEAMS TO SLIDE OVER EACH OTHER 2" x 7" & LARGER PROVIDE GUSSET PLATE (INSIDE BEAM) SAME WALL THICKNESS AS BEAM WALLS OR LARGER (SEE TABLE 1.6)



FASTENER SIZE, NUMBER AND SPACING PER PAGE 1-20(SEE **SABLE 1.6)**

ALL GUSSET PLATES SHALL BE A MINIMUM OF 5052 H-32 ALLOY OR HAVE AN ULTIMATE YIELD STRENGTH OF 30 KSI

ALTERNATE SIDE PLATE CONNECTION DETAIL - MANSARD ROOF **GUSSET PLATE MOUNTED INTERNALLY**

SCALE: 3" = 1'-0"

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P.O. Box 214368, South Daytona, Fl 32121 Telephone #: (386) 767-4774 Fax #: (386) 767-6556 Email lebpe@bellsouth.net

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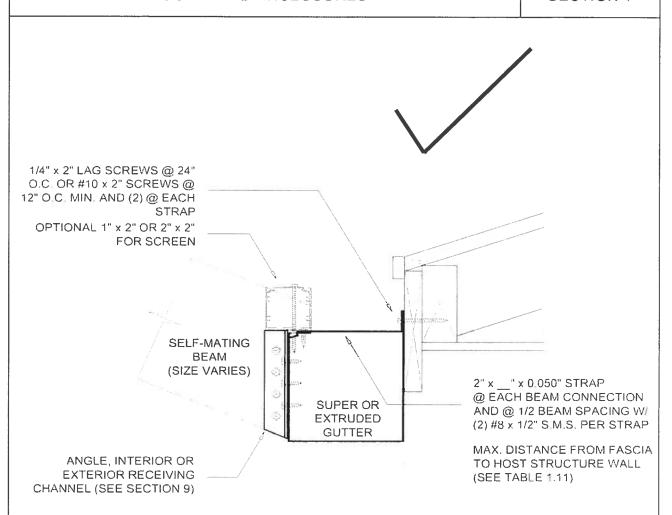
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SECTION 1



ALTERNATE SELF MATING BEAM CONNECTION TO SUPER OR EXTRUDED GUTTER

SCALE: 3" = 1'-0"

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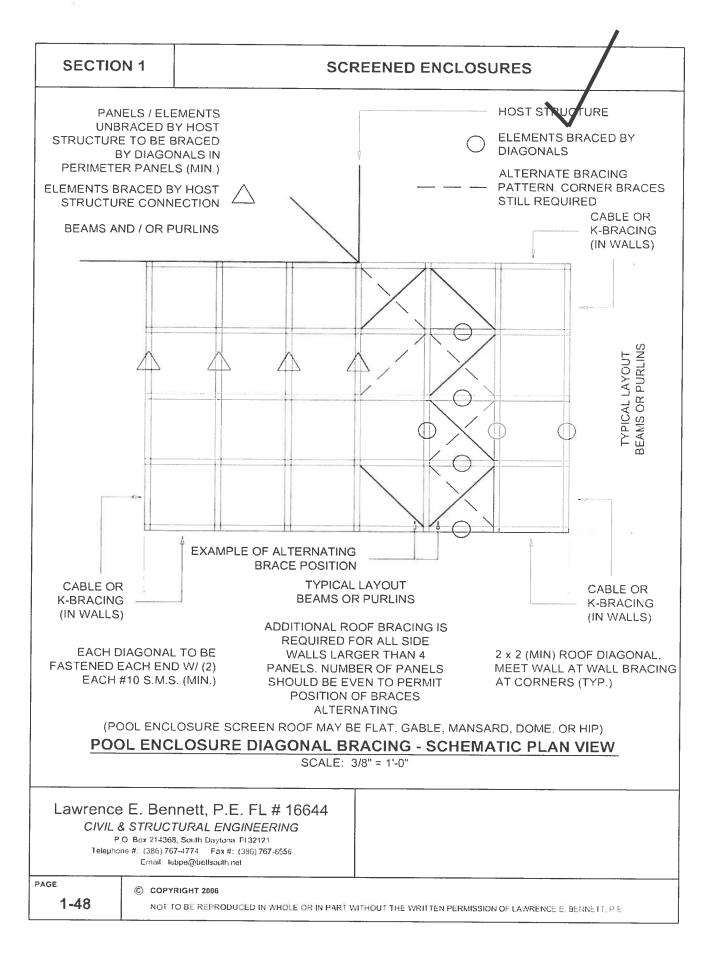
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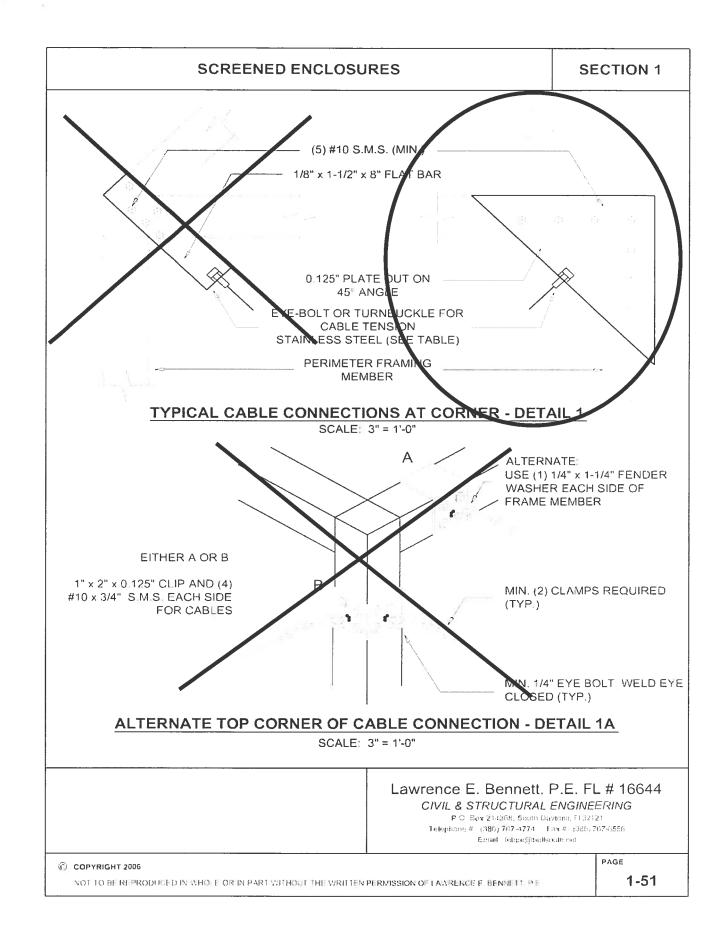
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1-27

PAGE





SECTION 1 SCREENED ENCLOSURES 2" x 2" x 0.125" ANGLE S.S. CABLE @ 40 TO 60 MAX ANGLE TO SLAB 2-1/4" x 1-1/2" CONCRETE CABLE CLAMP ANCHORS (MIN.) MIN 5d (SEE TABLE) ALTERNATE CLIP: 3" ASTM A-36 PRESSED STEEL CLIP MAY BE NOTE: SUBSTITUTED FOR 2" x 2" x SEE PAGE 1-50 FOR NUMBER 0.125" ANGLE MIN. 3-3/4" OF CABLES REQUIRED NOMINAL) AB 3-1/2" ASTM A-36 PRESSED STEEL CLIP MAY BE SUBSTITUTED FOR DISTANCE FROM EDGE OF 2" x 2" x 0.125" ANGLE SLAB = 5(D) OF SCREW ALTERNATE CABLE CONNECTION AT SLAB DETAIL - DETAIL 2B SCALE: 3" = 1'-0" SELECT ANCHOR FROM TABLE 9-1, MIN SHEAR 607# FOR 3/32" CABLE AND 594# FOR 1/8" CABLE, FOR 3/32" CABLE (1) " x 1-1/2" CONCRETE HOR (MIN.) @ 5d MIN. 5d (MIN.) 5-1/2 (6" NOMINAL) AB (MIN.) 5d (MIN.) 00 P.S.I. CONCRETE x 6 - 10 x 10 WELDED WIRE MESH OR FIBER MESH CONCRETE ALTERNATE CABLE CONNECTIONS AT FOUNDATION - DETAIL 2C SCALE:

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1-53

SECTION 1 SCREENED ENCLOSURES PURLINS ANCHORED W/ CLIPS OR #10 SCREWS THROUGH PURLINS INTO **SCREW BOSSES** EAVE RAILS SHALL BE STITCHED W/ #10 x 1-1/2" SMS @ 6" FROM EACH END AND 24" OC MAX. IRTS ANCHORED W/ CLIPS OR THROUGH #10 SCREWS INTO SCREW BOSSES FRONT AND SIDE BOTTOM RAILS ATTACHED TO CONCRETE W/ 1/4" x 2-1/4" CONCRETE / MASONRY ANCHORS @ PRIMARY & SECONDARY ANGLES OR @ 6" FROM EACH POST AND 24" O.C. MAX. AND WALLS MIN. 1" FROM EDGE OF CONCRETE **PURLIN & CHAIR RAIL DETAIL** SCALE: 3" = 1'-0"

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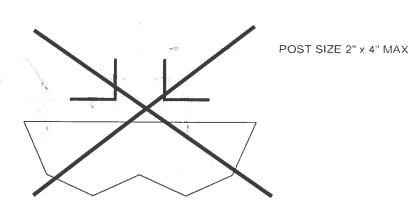
1-58

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SECTION 1

1" x 2" EXTRUSION ANCHOR TO CONCRETE W/ CONCRETE ANCHORS OR THRU PRIMARY ANGLE 6" MAX. EACH SIDE OF EACH POST AND @ 24" O.C. MAX. SELECT CONCRETE ANCHORS FROM SECTION 9

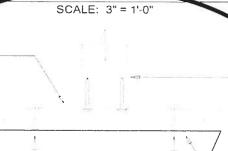
MIN. 3-1/2" SLAB 2500 P.S.I.
CONCRETE 6 x 6 - 10 x 10
WELDED WIRE MESH OR
FIBER MESH CONCRETE



SIDE WALL POST TO PLATE TO SONCRETE DETAIL

1" x 2" EXTRUSION ANCHOR TO CONC. W/ CONC. ANCH. 6" MAX. EA. SIDE OF FA. POST AND @ 24" O.C. MAX. SELECT CONCRETE ANCHORS FROM SECTION 9

MIN. 3-1/2" SLAB 2500 P.S.I. CONC. 6 x 6 10 x 10 W.W.M. OR FIBER MESH CONC.



2" x 2", 2" x 3" OR 2" x 4" HOLLOW SECTION (SEE TABLES)

MIN. (3) \pm 10 x 1-1/2" S.M.S. INTO SCREW BOSSES

MASONRY AT CHOR @ 6" EA. SIDE OF POST AND @ 24" O C MAX. SELECT CONCRETE ANCHORS FROM SECTION 9

SIDE WALL HOLLOW POST TO BASE DETAIL

SCALE: 3" = 1'-0"

POOL ENCLOSURE UPRIGHT TO DECK ANCHOR REQUIREMENTS

General Notes and Specifications:

1. The uplift load on a pool enclosure upright is calculated as 1/2 the beam span x the beam spacing x the screen load of 7# / Sq. Ft.

EXAMPLE:

FOR A 2" \times 6" BEAM WITH A SPAN OF 23' AND A BEAM & UPRIGHT SPACING OF 7' USE: $1/2 \times 17'-11" \times 7' \times 10\#$ / Sq. Ft. = 627.2# UPLIFT

- 2. Table 1.6 of this manual uses the worst case loads for all cases.
- 3. In all cases there must be a primary anchor within 6" of each side of the upright.
- 4. For attachment to wood deck (min. 2" nominal thickness) use wood anchors with details shown above (min. 1-3/8" embedment).

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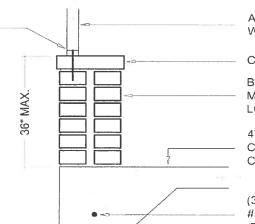
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PAGE

SECTION 1

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

ALTERNATE CONNECTION OF SCREENED ENCLOSURE FOR BRICK OR OTHER NON-STRUCTURAL KNEE WALL 1" WIDE × 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" CONCRETE ANCHOR TO SLAB OR FOOTING



ALUMINUM FRAME SCREEN WALL

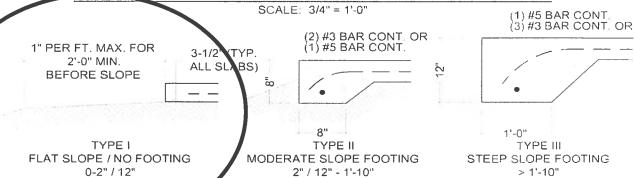
CAP BRICK

BRICK KNEEWALL TYPE 'S' MORTAR REQUIRED FOR LOAD BEARING BRICK WALL

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

(3) #3Ø BARS OR (1) #5Ø BAR W/ 2-1/2" COVER (TYP.)

PRICK KNEEWALL AND FOUNDATION FOR SCREEN WALLS



Notes for all foundation types:

- 1. The foundations shown are based on a minimum soil bearing pressure of 1,500 PSF. Bearing capacity of soil shall be verified priouto placing slab by field soil test (soil penetrometer) or a soil testing lab.
- 2. The slab / roundation shall be cleared of debris, roots and compacted prior to placement of concrete.
- 3. No footing is required except when addressing erosion until the slab width in the direction of the primary beams exceeds the span per table on page 1-69, then a type II slab is required under the load bearing wall only unless the side wall exceeds 16' in height or the enclosure is in a "C" exposure catagory in which case a type II footing is required.
- 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 manufacturer's specification may be used in lieu of wire mesh. All slabs / footings shall be allowed to cure for 7 days before installing anchors.
- 5. If local codes require a minimum footing use Type II footing or footing section required by local code. Local codes govern.

SLAB-FOOTING DETAILS

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

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SECTION 1

SCREENED ENCLOSURES

Tributary Load Width 'W' = Beam Spacing

Table 1.1 120

Allowable Spans for Primary Screen Roof Frame Members

Aluminum Alloy 6063 T-6

For Wind Zones up to 120 M.P.H., Exposure "B" and Latitudes Below 30°-30'-00" North (Jacksonville, FL)

Uniform Load = 4 #/SF, a Point Load of 300 #/SF over (1) linear ft, is also considered

Hollow Sections	3'-0"		3'-0" 4'-0" 5'-0" 6'-0"		11	7'-0'	•	8'-0" 9'-0"						
	Allowable Spa		e Span 'l	Span 'L' / Point Load		ad (P) or Uniform		Load (U), ben		ding (b), defle		ction (d)	
2" x 2" x 0.044"	4'-5"	Pb	4'-5"	Pb	4'-5"	Pb	4'-5"	Pb	4'-5"	Pb	4'-5"	Pb	4'-5"	Ph
2" x 2" x 0.050"	5'-2"	Pb	5'-2"	Pb	5'-2"	Pb	5'-2"	Pb	5'-2"	Pb	5'-2"	Pb	5'-2"	Pb
2" x 2" x 0.090"	7'-6"	Pb	7'-6"	Pb	7'-6"	Pb	7'-6"	Pb	7'-6"	Pb	7'-6"	Pb	7'-6"	Pb
2" x 3" x 0.045"	7'-7"	Pb	7'-7"	Pb	7'-7"	Pb	7'-7"	Pb	7'-7"	Pb	7'-7"	Pb	7'-7"	Pb
2" x 4" x 0.050"	9'-1"	Pb	9'-1"	PЬ	9'-1"	Pb	9'-1"	Pb	9'-1"	Pb	9'-1"	Pb	9'-1"	Pb
2" x 5" x 0.062"	20'-5"	Pb	20'-5"	Pb	20'-5"	Pb	20'-4"	Ud	19"-4"	Ud	18'-6"	Ud	17'-9"	Ud
Tributary Load Width 'W' = Beam Spacing														
Self Mating Sections	3'-0"		4'-0'	4'-0"		5'-0"			7'-0"		8'-0"		9,-0,,	
	Allo	wabl	e Span 'I	.' /	Point Loa	ad (P	or Unife	orm l	Load (U),	ben	ding (b),	defle	ection (d)	$\neg \neg$
2" x 4" x 0.044 x 0.100"	11'-8"	Pd	11'-8"	Pd	11'-8"	Pd	11'-8"	Pd	11'-8"	Pd	11'-8"	Pd	11'-8"	Pu
2" x 5" x 0.050" x 0.100"	16'-1"	Pd	16'-1"	Pd	16'-1"	Pd	16'-1"	Pd	16'-1"	Pd	15'-9"	Ud	15'-1"	Ud
2" x 6" x 0.050" x 0.120"	20'-4"	Pd	20'-4"	Pd	20'-4"	Pd	20'-3"	Ud	19'-3"	Ud	18'-5"	Ud	17'-8"	Ud
2" x 7" x 0.055" x 0.120"	24'-9"	Pd	24'-9"	Pd	24'-6"	Ud	23'-1"	Ud	21'-11"	Ud	20'-11"	Ud	20'-2"	Ud
2" x 8" x 0.072" x 0.224"	34'-2"	Pd.	32'-9"	Ud	30'-5"	Ud	28'-7"	Ud	27'-2"	Ud	25'-11"	Ud	24'-11"	Ud
2" x 9" x 0.072" x 0.224"	39'-3"	Pd	35'-11"	Ud	33'-4"	Ud	31'-5"	Ud	29'-10"	Ud	28'-6"	Ud.	27'-5"	Ud
2" x 9" x 0.082" x 0.310"	42'-5"	Ud	38'-7"	Ud	35'-10"	Ud	33'-8"	Ud	31'-11"	Ud	30'-7"	Ud	29'-5"	Ud
2" x 10" x 0.092" x 0.369"	49'-3"	Ud	44'-9"	IJd	41'-7"	Ud	39'-1"	Ud	37'-2"	Ud	35'-6"	Ud	34'-2"	Ud

			-	T	ributary	Load	Width "	N ' =	Beam Sp	acin	g			
Snap Sections 3'-		1	4'-0"		5'-0"		6'-0"		7'-0"		8'-0"		9'-0"	
	Allowable Span 'L' / Point Load (P) or Uniform Load (U), bending (b), deflection										ction (d)	on (d)		
2" x 2" x 0.044"	4'-10"	Pd	4'-10"	Pd	4'-10"	Pd	4'-10"	Pd	4 - 10"	Pd	4'-10"	Pd	4'-10"	Pu
2" x 3" x 0,045"	7'-6"	Pd	7'-6"	Po	7'-6"	Pd	7'-6"	Pd	7"-6"	Pď	7'-6"	Pu	7'-6''	Pd
2" x 4" x 0.045"	10"-8"	Pd	10'-8"	Pd	10'-8"	Pd	10'-8"	Pd	10'-8"	Pd	10'-8"	Pd	10'-8"	Pd
2" x 6" x 0.062"	22'-2"	Pd	22'-2"	Pd	22'-2"	Pd	21'-5"	Ud	20'-5"	Ud.	19'-6"	Ud	18'-9"	Ud
2" x 7" x 0.062"	26'-8"	Pd	26'-8"	Pd	25'-9"	Ud	24'-3"	Ud	23'-0"	Ud	22'-0"	Ud	21'-2"	Ud

Moto:

- 1. Thicknesses shown are "nominal" industry standard tolerances. No wall thickness shall be less than 0.040"
- 2. The structures designed using this section shall be limited to a maximum combined span and upright height of 50' and a maximum upright height of 16'. Structures larger than these limits shall have site specific engineering.
- 3. Span is measured from center of beam and upright connection to fascia or wall connection.
- 4. 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.
- 5. Tables are based on a maximum wall height of 16' including a 4' max, mansard or gable. Other conditions may offer better spans w/ enclosure site specific engineering.
- 6. Spans may be interpolated.
- 7. To convert spans to "C" and "D" exposure categories see exposure multipliers and example on page 1-ii. Example: Max. 'L' for 2" x 4" x 0.050" hollow section with 'W' = 5'-0" = 9'-1"

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Table 1.2 120 Allowable Spans for Secondary Screen Roof Frame Members Aluminum Alloy 6063 T-6

For Wind Zones up to 120 M.P.H., Exposure "B", and Latitudes Below 30°-30'-00" North (Jacksonville, FL) Uniform Load = 4 #/SF, a Point Load of 300 #/SF over (1) linear ft. is also considered

A. Sections Fastened To Beams With Clips

				1	ributary	Load	Width "	W' =	Purlin Sp	pacin	g			
Hollow Sections	3'-6	14	4'-0'	19	4'-6'	•	5'-0'	14	5'-6'		6'-0	**	6'-8	41
	Allo	wabl	e Span '	<u>. , , , , , , , , , , , , , , , , , , ,</u>	Point Lo	ad (P) or Unif	orm l	Load (U).	ben	ding (b).	defle	ection (d)
2" x 2" x 0.044"	4'-5"	Pb	4'-5"	Pb		Pb	4'-5"	Pb	4'-5"	Pb	4'-5"	Pb	4'-5"	Pb
2" x 2" x 0.050"	5'-2"	Pb	5'-2"	Pb	5'-2"	Pb	5'-2"	Pb	5'-2"	Pb	5'-2"	Pb	5'-2"	Pb
2" x 2" x 0.090"	7'-4"	Pd	7'-4"	Pd	7'-4"	Pd	7'-4"	Pa	7'-4"	Pd	7'-4"	Pd	7'-4"	Pd
3" x 2" x 0.045"	5'-8"	Pb	5'-8"	Pb	5'-8"	Pb	5'-8"	Pb	5'-8"	Pb	5'-8"	Pb	5'-8"	Pb
3" x 2" x 0.070"	7'-8"	Pd	7'-8"	Pd	7'-8"	Pd	7'-8"	Pd	7'-8"	Pd	7'-8"	Pd	7'-8"	Pd
2" x 3" x 0.045"	7'-4"	Pd	7'-4"	Pd	7'-4"	Pd	7'-4"	Pd	7'-4"	Pd	7'-1"	Pd	7'-4"	Pd
2" x 4" x 0.050"	9'-1"	Рb	9'-1"	F'b	9'-1"	Pb	9'-1"	Pb	9'-1"	Ph	9'-1%	Pb	9'-1"	₽b
2" x 5" x 0.062"	14'-1"	Pd	14'-1"	Pd	14'-1"	Pd	14'-1"	Pci	14'-1"	Pd	14'-1"	Pd	14'-1"	Pd

				T	ributary	Load	Width '\	W' =	Purlin Sp	acin	g			
Snap Sections	3'-6'	14	4'-0'		4'-6'		5'-0'	1	5'-6'	•	6'-0'	•	6'-8'	1
	Allo	wabl	e Span 'I	L' /	Point Lo	ad (P) or Unif	orm	Load (U),	ben	ding (b),	defle	ction (d)	
2" x 2" x 0.044	4'-11"	PЪ	4'-11"	Pb	4'-11"	Pb	4'-11"	Pb	4'-11"	Pb	4'-11"	Pb	45-111	Pb
2" x 3" x 0.045"	7'-3"	Pd	7'-3"	Pd	7'-3"	Pd	7'-3"	Pd	7'-3"	Pd	7'-3"	Pd	7'-3"	Pd
2" x 4" x 0.045"	9'-2"	Pd	9'-2"	Pd	9'-2"	Pd	9'-2"	Pd	9'-2"	Pd	9'-?"	Pa	9'-2"	Pd

B. Sections Fastened Through Beam Webs Into Screw Bosses

				T	ributary	Load	Width '\	V . =	Purlin Sp	acin	g			
Hollow Sections	3'-6'	*	4'-0'	•	4'-6'	*	5'-0'	•	5'-6'	•	6,-0,	i	6'-8'	
	Allo	wabl	e Span 'l	.' /	Point Lo	ad (P) or Unife	orm l	Load (U),	ben	ding (b),	defle	ection (d)	
2" x 3" x 0.050"	11'-5"	Pb	11'-5"	Pb	11'-5"	Pb	11'-4"	Ud	10'-11"	Ud	10'-8"	Ud	10'-3"	Ud
2" x 4" x 0.050"	13'-8"	Pb	13'-8"	Pb	13'-8"	Pb	13'-8"	Pb	13'-8"	Pb	13'-8"	Pb	13'-8"	Pb
2" x 5" x 0.062"	22'-4"	Pd	22'-4"	Pd	22'-4"	Pd	21'-7"	Ud	20'-11"	Ud	20'-4"	Ud	19'-7"	Ųď

				Ť	ributary	Load	Width 'V	V , =	Purlin Sp	acin	g			
Snap Sections	3'-6'		4'-0'	1	4'-6'		5'-0'	•	5'-6'	•	6'-0'	1	6'-8'	
	Allo	wabl	e Span 'L	. /	Point Loa	id (P) or Unifo	orm l	Load (U),	ben	ding (b),	defle	ction (d)	1
2" x 2" x 0.044"	4'-4"	Pb	4'-4"	Pb	4'-4"	Pb	4'-4"	Pb	4'-4"	Pb	4'-4"	Pb	4'-4"	Pb

Notes:

- 1. Thicknesses shown are "nominal" industry standard tolerances. No wall thickness shall be less than 0.040"
- Span is measured from center of beam and upright connection to fascia or wall connection.
- 3 Tables are based on a maximum wall height of 16' including a 4' max mansard or gable. Other conditions may offer better spans w/ enclosure site specific engineering.
- 4. Spans may be interpolated.
- 5. 2" x 4" & 2" x 5" Hollow Girts shall be connected w/ an internal or external 1-1/2" x 1-1/2" x 0.044" angle
- 6 To convert spans to "C" and "D" exposure categories see exposure multipliers and example on page 1-ii. CHECK TABLE 1.6 FOR MINIMUM UPRIGHT SIZE FOR BEAMS.

Example: Max. 'L' for 2" x 4" x 0.050" hollow section fastened to beam with clips with 'W' = 5'-0" = 9'-1"

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Table 1.3 110 Allowable Post / Upright Heights for Primary Screen Wall Frame Members
Aluminum Alloy 6063 T-6

For 3 second wind gust at a velocity of 110 MPH, Exposure "B" or an applied load of 13 #/sq. ft.

			T	rib	utary Lo	ad '	Width 'W	' =	Upright :	Spa	cing			
Hollow Sections	3'-0"		4'-0"		5'-0"		6'-0"		7'-0''		8'-0"		9'-0'	-
			Allov	vab	le Heigh	t "F	l" / bend	ling	(b), defi	ect	ion (d)			
2" x 2" x 0.044"	7'-5"	d	6'-5"	b	5'-8"	b	5'-1"	ь	4'-8"	b	4'-3"	ь	3'-11"	Tb
2" x 2" x 0.050"	7'-10"	C	7'-1"	Ь	6'-3"	b	5'-8"	b	5'-2"	b	4'-9"	b	4'-5"	ь
2" x 2" x 0.090"	8'-111"	d	8'-2"	d	7'-10"	d	7'-1"	b	6'-7"	b	6'-1"	Ь	5'-9"	Li
2" x 3" x 0.045"	8'~1"	d	7'-7"	d	7'-9"	d	6'-11"	d	6'-5"	d	5'-11"	Ь	5'-6"	b.
2" x 4" x 0.050"	11'-2"	b	9'-7"	b	8'-6"	b	7'-9"	b	7'-1"	b	6'-7"	ь	6'-1"	b
2" x 5" x 0.062"	17'-3"	b	14'-10"	b	13'-2"	b	dal-bi"	ь	11'-0"	b	10'-3"	b	9'-7"	b

			T	rib	utary Lo	ad	Width 'W	' =	Upright 9	Spa	cing			\neg
Self Mating Sections	3'-0"		4'-0"		5'-0"		6'-0"	A	7'-0"		8'-0"		9'-0"	
			Allov	vab	le Heigh	t ''F	" / bend	ing	(b), defl	ect	ion (d)			
2" x 4" x 0.044 x 0.100"	11'-11"	d	10'-10"	d	10'-0"	d	9'-5"	b	8'-8"	Ь	8'-0"	ь	7'-G"	Ь
2" x 5" x 0.050" x 0.100"	14'-9"	d	13'-5"	d	12'-5"	d	11'-7"	b	10'-8"	b	9'-11"	b	9'-4"	b
2" x 6" x 0.050" x 0.120"	17'-3"	d	15'-8"	d	14'-4"	b	13'-1"	þ	12'-0"	b	11'-3"	b	10'-6"	ь
2" x 7" x 0.055" x 0.120"	19'-8"	d	17'-6"	b	15'-7"	b	14'-2"	b	13'-1"	b	12'-2"	b	11'-5"	b
2" x 8" x 0.072" x 0.224"	24'-4"	d	22'-1"	d	20'-6"	d	19'-4"	d	18'-4"	d	17'-6"	d	16'-10"	d
2" x 9" x 0.072" x 0.224"	26'-8"	d	24'-3"	d	22'-6"	d	21'-2"	d	20'-1"	d	19'-3"	0	18'-2"	b
2" x 9" x 0.082" x 0.310"	28'-8"	d	26'-0"	d	24'-2"	d	22'-9"	d	21'-7"	d	20'-8"	d	19'-10"	đ
2" x 10" x 0.092" x 0.369"	33'-3"	ď	30'-3"	d	28'-1"	d	26'-5"	d	25'-1"	d	23'-11"	đ	23'-1"	J

				Γrib	utary Lo	ad	Width 'W	'= I	Upright S	Spa	cing			
Snap Sections	3'-0"		4'-0"		5'-0"		6'-0"		7'-0"		8'-0"		9'-0"	
			Allov	vab	le Heigh	t "H	" / benc	ling	(b), defl	ect	ion (d)			
2" x 2" x 0.044"	6'-7"	ď	5'-11"	d	5'-7"	d	5'-3"	đ	4'-10"	b	4'-5"	b	4'-1"	b
2" x 3" x 0.045"	8'-10"	d	8'-1"	d	7'-6"	d	6'-11"	b	6'-3"	b	5'-9"	b	5'-3"	la.
2" x 4" x 0.045"	11-2"	d	10'-2"	d	9'-2"	b	8'-2"	ь	7'-5"	ь	6'-9"	b	6'-2"	В
2" x 6" x 0.062"	18'-3"	d	16'-7"	d	15'-5"	d	14'-6"	ď	13'-9"	d	13'-2"	ď	12'-8"	d
2" x 7" x 0.062"	20 -7"	ď	18'-9"	d	17'-5"	d	16'-4"	d	15'-7"	d	14'-10"	d	14'-2"	b

Notes:

- 1. Thicknesses shown are "nominal" industry standard tolerances. No wall thickness shall be less than 0.040".
- 2 Using screen panel width 'W' select upright length 'H'
- 3. Above heights do not include length of knee brace. Add vertical distance from upright to center of brace to beam connection to the above spans for total beam spans.
- 4. Site specific engineering required for pool enclosures over 30' in mean root height.
- 5. Height is to be measured from center of beam and upright connection to fascia or wall connection.
- 6. Chair rails of 2" x 2" x 0.044" min, and set @ 36" in height are designed to be residential guardrails provided they are attached with min. (3) #10 x 1-1/2" S.M.S. into the screw bosses and do not exceed 8'-0" in span.
- 7. Max. beam size for 2" x 5" is 2" x 7" x 0.055" x 0.120"
- 8. Spans may be interpolated.
- 9. To convert spans to "C" and "D" exposure categories see exposure multipliers and example on page 1-ii.

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Table 1.4 110 Allowable Post / Girt / Chair Rail Spans, Header Spans & Upright Heights for Secondary Screen Wall Frame Members

Aluminum Alloy 6063 T-6

For 3 second wind gust at a velocity of 110 MPH, Exposure "B" or an applied load of 13 # / sq. ft.

A. Sections As Horizontals Fastened To Posts With Clips

				Tri	butary L	oad	Width '\	N. =	Upright	Sp	acing			
Hollow Sections	3'-0"		4'-0"		5'-0"	a			7'-0"		8'-0"		9'-0"	,
			Allow	abl	Height	"H"	or Span	"L	" / bend	ing	(b), defle	ecti	on (d)	_
2" x 2" x 0.044"	7'-5"	d	6'-5"	Ь	5'-8"	b	5'-1"	Ь	4'-8"	Ь	4'-3"	b	3'-11"	Ъ
2" x 2" x 0.050"	7'-10"	d	7'-1"	b	6'-3"	b	5'-8"	ь	5'-2"	b	4'-9"	ь	4'-5"	b
2" x 2" x 0.090"	8'-11"	d	8'-2"	d	7'-10"	d	7'-1"	ь	6'-7"	ь	6'-1"	b	5'-9"	b
3" x 2" x 0.045"	8'-4"	d	7'-4"	Ь	6'-6"	b	5'-10"	b	5'-4"	h	4'-11"	h	4'-7"	b
3" x 2" x 0.070"	9'-5"	d	8'-6"	d	7'-9"	b	7'-0"	ь	6'-5"	h	5'-11"	h	5'-7"	b
2" x 3" x 0.045"	8'-4"	d	7'-7"	ď	7'-9"	đ	6'-11"	d	6'-5"	d	5'-11"	h	5'-6"	b
2" x 4" x 0.050"	11'-2"	ь	9'-7"	b	8'-6"	b	7'-9"	b	7'-1"	h	6'-7"	h	6'-1"	Ь
2" x 5" x 0.062"	17'-3"	b	14'-10"	b	13'-2"	ь	11'-11"	1)	11'-0"	b	10'-3"	15	9'-7"	Ь

				Tri	butary L	oac	d Width '\	N '=	Upright	Sp	acing				
Snap Sections	3'-0"		4'-0"		5'-0"		6'-0"		7'-0"		8'-0"		9'-0"	0	
		3'-0" 4'-0" 5'-0" 6'-0" 7'-0" 8'-0" 9'-0" Allowable Height "H" or Span "L" / bending (b), deflection (d)													
2" x 2" x 0.044"	6'-7"	d	5'-11"	C,	5'-7"	d	5'-3	d	4'-10"	b	4'-5"	Ь	4'-1"	Ь	

B. Sections As Horizontals Fastened To Posts Through Side Into Screw Bosses

				Tri	butary L	oac	Width '\	N' =	- Upright	Sp	acing			\neg
Hollow Sections	3'-0"		4'-0"		5'-0"		6'-0"		7'-0"		8'-0"		9'-0"	
	_[Allow	abl	e Height	"H"	or Span	"L	"/ bend	ing	(b), defle	ecti	on (d)	\neg
2" x 2" x 0.044"	8'-4"	b	7'-2"	b	6'-4"	b	5'-8"	b	5'-2"	b	4"-1)"	b	4'-5"	Ъ
3" x 2" x 0.045"	9'-7"	ь	8'-3"	b	7'-3"	b	6'-6"	b	5'-11"	ь	5'-6"	ь	5'-1"	ь
3" x 2" x 0.070"	11'-5"	b	9'-10"	b	8'-8"	b	7'-10"	ь	7'-2"	b	6'-8"	ь	6'-3"	ь
2" x 3" x 0.045"	11'-2"	d	9'-9"	b	8'-8"	b	7'-10"	Ь	7'-2"	b	6'-8"	b	6'-2"	b
2" x 4" x 0.050"	12'-6"	b	10'-9"	b	9'-6"	b	8'-7"	b	7'-11"	b	7'-4"	b	6'-10"	ь
2" x 5" x 0.062"	19'-3"	Ь	16'-7"	b	14'-9"	b	13'-5"	Ь	12'-4"	ь	11'-6"	Ь	10'-9"	ь

				Tr	butary L	oac	Width '\	N'=	Upright	Spa	acing			\neg	
Snap Sections	3'-0"	3'-0" 4'-0" 5'-0" 6'-0" 7'-0" 8'-0" 9'-0"													
		Allowable Height "H" or Span "L" / bending (b), deflection (d)													
2" x 2" x 0.044"	8'-10"	d	7'-8"	b	6'-9"	b	6'-0"	b	5'-5"	b	4'-11"	b	4'-7"	b	

Note

- 1 Thicknesses shown are "nominal" industry standard tolerances. No wall thickness shall be less than 0.040"
- 2 Using screen panel width 'W' select girt lengths.
- 3. Site specific engineering required for pool enclosures over 30' in mean roof height.
- 4. Span/height is to be measured from center of beam and upright connection to fascia or wall connection.
- 5 Chair rails of 2" x 2" x 0 044" min, and set @ 36" in height are designed to be residential gardrails provided they are attached with min. (3) #10 x 1-1/2" s.m.s. into the screw bosses and do not exceed 8"-0" o.c.
- 6 Girt spacing shall not exceed 6'-8"
- 7. Max. beam size for 2" x 5" is 2" x 7" x 0.055" x 0.120"
- 8. 2" x 4" & 2" x 5" hollow girts shall be connected w/ an internal or external 1-1/2" x 1-1/2" x 0 044" angle
- 9. Spans heights may be interpolated.
- 10. To convert spans to "C" and "D" exposure categories see exposure multipliers and example on page 1-in

REVISED APRIL 2007

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and the second

SCREENED ENCLOSURES

Table 1.6 Minimum Upright Sizes and Number of Screws for Connection of Roof Beams To Wall Uprights or Beam Splicing

Beam/Upright	Upright or	Minimum Purlin, Girt	Notes	Minimu	ım Number of	Screws*	Beam Stitching
or Post	Post/Beam	& Knee Brace Size		#8 x 1/5"	#10 x 1/5"	#12 x 1/5"	Screw at 24" OC
2 x 4 SMB	2 x 3 SMB or H	2" x 2" x 0.044"	Partial Lap	8	6	4	#10
2 x 5 SMB	2 x 3 SMB or H	2" x 2" x 0 044"	Partial Lap	8	6	4	#8
2 x 6 SMB	2 x 3 SMB or H	2" x 2" x 0 044"	Partial Lap	10	8	6	#10
2 x 7 SMB	2 x 4 SMB or H	2" x 3" x 0.044"	Full Lap	14	12	10	#12
2 x 8 SMB	2 x 5 SMB or H	2" x 3" x 0.044"	Full Lap	16	14	12	#14
2 x 9 SMB	2 x 6 SMB	2" x 3" x 0.045"	Full Lap	18	16	14	#14**
2 x 9 SMB *	2 x 7 SMB	2" x 4" x 0.050"	Full Lap	20	18	16	#14**
2 x 10 SMB	2 x 8 SMB	2" x 5" x 0.050"	Full Lap	20	18	16	#14**

Screw Size	Minimum Distance and	Gusset Plate Thickness							
	Edge To Center	Center To Center	Beam Size	Thickness					
#8	5/16"	5/8"	2" x 7" x 0.055" x 0.120"	0.063"					
#10	3/8"	3/4"	2" x 8" x 0.072" x 0.224"	0 125"					
#12	1/2"	1"	2" x 9" x 0.072" x 0.224"	0.125"					
#14 or 1/4"	3/4"	1-1/2"	2" x 9" x 0.082" x 0306"	0.190"					
5/16"	7/8"	1-3/4"	2" x 10" x 0.092" x 0.369"	0.250"					
3/8"	1"	2"							

^{* 0.082&}quot; wall thickness, 0.310" flange thickness

Connection Example:

 $2" \times 7"$ beam & $2" \times 5"$ at beam & gusset plate, (14) #8 x 1/2" sms & upright & gusset plate

(14) #8 x 1/2" sms ea. side of beam & upright.

Note:

- 1. Connection of 2" x 6" to 2" x 4" shall use a full lap cut or 1/16" gusset plate.
- 2. For beam splice connections the number of screws shown is the total for each splice with 1/2 the screws on each side of the cut.
- 3. The number of screws is based on the maximum allowable moment of the beam.
- 4. The number of deck anchors is based on RAWL R Tapper allowable load data for 2,500 psi concrete and / or equal anchors may be used. The number shown is the total use 1/2 per side.
- 5. Hollow splice connections can be made provided the connection is approved by the engineer
- 6. If a larger than minimum upright is used the number of screws is the same for each splice with 1/2 the screws on each side of the cut
- 7. The side wall upright shall have a minimum beam size as shown above, ie , a 2" x 4" upright shall have a 2" x 3" beam.
- 8 For minimum girt size read upright size as a beam and purlin size is minimum girt size (i.e. 2" x 9" x 0 072" x 0 224" s m b. w/2" x 6" x 0.050 x 0.120" s m b. upright requires a 2" x 3" x 0.045" girt / chair rail.)

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[&]quot; (1) Stitching screw at 16" O.C. max.

SECTION 1

SCREENED ENCLOSURES

Table 1.10 120

Allowable Spans for 5" Super Gutter and Self Mating Beam Screened Enclosure One Side/Solid Roof Other Side

Aluminum Alloy 6063 T-6

For Areas in Wind Zones of 120 M.P.H. Exposure "B", or Less and Latitudes Below 30°-30'-00" North Uniform Load on Screen = 4 #/SF, Solid Roof = 27.4 #/SF, 300# Point Load is Considered over (1) LF of Beam

Uniform Load on Screen =	4 #/3F, 3	obiid	KUUI - 2		,01,000	- 11	11	4 146	dela								
	- 1		Tributary Load Width														
at the Colf Meding	10'-0	,	12'-0		14'-0'	•	16'-0'	" <u> </u>	<u> 18'-0'</u>		20'-0'						
Single Self-Mating	10-0		Coop 1	• / B	int Load (P)		or Uniform L		ad (U), b	endi	ng (b) or	defic	ection (d)				
Beams	Alloy	PICE					10'-1"	UЬ	9'-11"	Ub	9'-8"	UЬ	9'-6"	Ub			
2" x 6" x 0.050" x 0.120"	10'-9"	Ub	10'-6"	Ub	10'-3"	UЪ						116	9'-9"	Ub			
2" x 7" x 0.055" x 0.120"	11'-0"	Ub	10'-9"	Ub	10'-6"	Ub	10'-4"	Ub	10'-2"	UЬ	9'-11"	UB		_			
			15'-2"	Ub	14'-11"	Ub	14'-7"	UЬ	14'-4"	UЫ	14'-0"	Ub	13'-9"	Ub			
2" x 8" x 0.072" x 0.224"	15'-7" ბ	UЬ	10 10					_	14'-11"	Ub	14'-8"	UЬ	14'-5"	Ub			
2" x 9" x 0.072" x 0.224"	16'-3"	Ub	15'-10"	Ub	15'-6"	Ub	15'-3"	UЬ						ÜЬ			
	18'-9"	UЪ	18'-4"	Ub	17'-11"	Ub	17'-7"	Ub I	17'-3"	Ub	16'-11"	Ub	16'-7"				
2" x 9" x 0.082" x 0.306"				ÜЬ	21'-7"	Ub	21'-1"	UЬ	20'-9"	UЬ	20'-4"	Ub	19'-11"	I OP			
2" x 10" x 0.092" x 0.369"	22'-6"	UЬ	22'-0"	םט ן	21-/	UU	215	100									

- 1. If the solid panel is greater or less than 10'-0", then the 1/2 the allowable screen roof beam span shall be adjusted by the factor of +/- 2 x 1/2 (the solid roof panel span difference between the actual and 10'-0"). The adjustment to the allowable screen roof panel width is applied as a plus if the solid roof panel is larger than 10'-0" and minus if the solid roof panel is smaller than 10'-0".
- 2. For span of "L" of beam; use screen panel width "W" from drawing.
- 3. Load span = 1/2 of screen beam length + 1/2 of solid roof span .

4. Spans may be interpolated.

5. For minimum beam to upright sizes use Table 2.3

6. To convert spans to "C" and "D" exposure categories see exposure multipliers and example on page 1-ii. Example: The Maximum 'L' for a 2" x 6" x 0.050" x 0.120" Single Self-Mating Beam with Tributary Load Width = 22'-0" is 17'-0 "

Table 1.10 130

Allowable Spans for 5" Super Gutter and Self Mating Beam Screened Enclosure One Side/Solid Roof Other Side Aluminum Alloy 6063 T-6

For Areas in Wind Zons of 130 M.P.H. or Less, Exposure "B" and Latitudes Below 30°-30'-00" North Uniform Load on Screen = 5 #/SF, Solid Roof = 32.2 #/SF, 300# Point Load is Considered over (1) LF of Beam

Iniform Load on Screen =						Tribu	itary Loa	d Wi	dth						
Single Self-Mating	10'-0'	,	12'-0	m	14'-0	11	16'-0'	1	18'-0'		20'-0'		22'-0"		
Single Sell-Mading Beams	Alloy	vable	Span 'L	' / P	int Load	(P)	or Unifor	m Lo	ad (U), b	endi	ng (b) or	defic	ection (d) 	
2" x 6" x 0.050" x 0.120"	9'-10"	Ub	9'-7"	Ub	9'-5"	Ub	9'-2"	Ub	9'-0"	Ub	8'-10"	UB	0-0	101	
2" x 7" x 0.055" x 0.120"	10'-1"	Ub	9'-10"	Ub	9'-8"	Ub	9'-5"	Ųb	9'-3"	Ub	9'-1"	UЬ	8'-11"	U	
2" x 8" x 0.072" x 0.224"	14'-3"	Ub	13'-11"	Ub	13'-7"	UЬ		Ub	13'-1"	Ub		Ub	12'-7"	Ut	
2" x 9" x 0.072" x 0.224"	14'-10"	ÜЬ	14'-6"	Ub	14'-2"	Ub	13'-11"	Ub	13'-7"	Ub	13'-4"	UЬ	13'-1"	뱐	
2" x 9" x 0.082" x 0.306"	17'-2"	UЬ	16'-9"	Ub	16'-5"	Ub	16'-1"	Ub	15'-9"	ÜЬ		UЬ	15'-2"	뱐	
2" x 10" x 0.092" x 0.369"		UЬ	20'-2"	Ub	19'-8"	Ub	19'-3"	Ub	18'-11"	Ub	18'-6"	Ub	18'-2"	Ut	

- 1. If the solid panel is greater or less than 10'-0", then the 1/2 the allowable screen roof beam span shall be adjusted by the factor of +/- 2 x 1/2 (the solid roof panel span difference between the actual and 10'-0"). The adjustment to the allowable screen roof panel width is applied as a plus if the solid roof panel is larger than 10'-0" and minus if the solid roof panel is smaller than 10'-0".
- For span of "L" of beam; use screen panel width "W" from drawing.
- 3. Load span = 1/2 of screen beam length + 1/2 of solid roof span .

4. Spans may be interpolated.

5. For minimum beam to upright sizes use Table 2.3

6. To convert spans to "C" and "D" exposure categories see exposure multipliers and example on page 1-ii. Example: The Maximum 'L' for a 2" x 6" x 0.050" x 0.120" Single Self-Mating Beam with Tributary Load Width = 22'-0" is 17'-0"

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Table 3A.1.1-110 Allowable Edge Beam Spans - Hollow Extrusions for Screen, Acrylic or Vinyl Rooms

For 3 second wind gust at 110 MPH velocity; using design load of 11.0 #/SF (47.1 #/SF for Max. Cantilever)

luminum Allo	y 0003 1-0				2" x 2" x 0.0)55"			41 1 10			
" x 2" x 0.044		11 1 / /bandli	ng 'b' or def		Load	Max. Span	'L' / (bendir	ng 'b' or det	lection 'd')			
Load Width (ft.)	Max. Span	3 Span	ALLINA	Max. Cantilever	Width (ft.)	1 & 2 Span	3 Span	4 Span	Max. Cantilever			
programme of			7694 d	0'-11" d	5	5'-8" d	6'-11" d	7'-1" d	1'-0" d			
	5'-4" d		6'-4" d	0'-11" d	6	5'-4" d	6'-7" d	6'-8" d	0'-11" d			
6	5'-0" d	6'-2" d		0'-10" d	7	5'-1" d	6'-3" d	6'-4" d	0'-11" d			
7	4'-9" d	5'-11" d		0'-10" d	8	4'-10" d	5'-11" d	6'-1" b	0'-11" d			
8	4'-7" d	5'-8" d	<u> </u>	0-10 d	9	4'-8" d	5'-9" d	5'-9" b	0'-10" d			
9	4'-5" d	5'-5" d	5'-3" b	0-10 d 0'-9" d	10	4'-6" d	5'-6" d	5'-5" b	0'-10" d			
10	4'-3" d	5'-2" b	4'-11" b		11	4'-4" d	5'-4" d	5'-2" b	0'-10" d			
· 11	4'-1" d	4'-11" b	4'-9" b	•	12	4'-3" d	5'-2" b	4'-11" b	0'-9" d			
12	3'-11" d	4'-8" b	4'-7" b	0'-9" d	3" x 2" x 0.	070"						
3" x 2" x 0.04	5"			5 - 41 I-IN	Load	Max Spar	ı 'L' / (bendi	ng 'b' or de	flection 'd'			
Load	Max. Spa	n 'L' / (bend	ing 'b' or de	Max.	Width (ft)	1 & 2 Span		4 Span	Max.			
Width (ft.)	1 & 2 Span	3 Span	4 Span	max. Cantilever	Widdi (it.)	1 & 2 Span	3 Span		Cantileve			
		7'-5" d	7'-7" d	1'-1" d	5	6'-9" d	8'-5" d	8'-7" d	1'-3"			
5	6'-0" d	7'-0" d	7'-2" d	1'-0" d	6	6'-5" d	7'-11" d	8'-0" d	1'-2"			
6	5'-8" d	6'-8" d	6'-10" d	0'-11" d	7	6'-1" d	7'-6" d	7'-8" d	1'-1" (
7	5'-5" d	6'-4" d	6'-5" b	0'-11" d	8	5'-10" d	7'-2" d	7'-4" d	1'-1" (
8	5'-2" d	6'-2" d	6'-1" b	0'-11" d	9	5'-7" d	6'-11" d	7'-0" d	1'-0"			
9	4'-11" d		5'-9" b	0'-10" d	10	5'-5" d	6'-8" d	6'-9" b	0'-11"			
10	4'-9" d	5'-11" d	5'-6" b	0'-10" d	11	5'-3" d	6'-5" d	6'-5" b	0'-11"			
11	4'-8" d	5'-8" b		0'-10" d	12	5'-1" d	6'-3" d	6'-2" b	0'-11"			
12	4'-6" d	5'-5" b	5'-3" b	1 0-10 u	2" x 4" x 0	0.050"						
2" x 3" x 0.04	5"	10 1 1 11	line this early	(b' noiteelle		Max. Spa	n 'L' / (bend	ling 'b' or d	deflection 'd			
Load	Max. Spa	n L'/(Deno	ing 'b' or de	Max.	Width (ft.	1 & 2 Span	3 Span	4 Span	max.			
Width (ft.)	1 & 2 Spar	3 Span	4 Span	Cantileve		1		1	Cantilev 1'-9"			
	7'-6" d	9'-3" d	9'-5" d	1'-4" d		9'-8" d	11'-11" d	12'-2" b				
5	7'-0" d	8'-8" d		1'-3" d	6	9'-1" d	11'-3" d	11'-1" b				
6	6'-8" d	8'-3" d			7	8'-8" d	10'-8" b	10'-3" b				
7		 			8	8'-3" d	9'-11" b	9'-7" b				
88	6'-5" d					7'-11" d	9'-5" b	9'-1" b				
9	6'-2" d				_	7'-8" d	8'-11" b					
10	5'-11" d					7'-5" d	8'-6" b					
11	5'-9" d					7'-3" d	8'-1" b	7'-10" t	1'-4"			
12	5'-7" d	6'-4" b	6'-2" b	17-0	12							

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.

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SCREEN, ACRYLIC & VINYL ROOMS

SECTION 3A

n Size n Size n Size n Size 1.060" 1.060" 1.060" 1.060" 1.072" × 0 1.050" 1.	Table 3A.3 Schedule of Post to Beam Size Aluminum Alloy 6063 T-6 Aluminum Alloy 6063 T-6 Aluminum Pleam Size Post Size 2" x 4" x 0.050" Hollow 2" x 3" x 0.060" 2" x 5" x 0.050" x 0.100" 2" x 5" x 0.050" x 0.100" 2" x 5" x 0.050" x 0.120" 2" x 7" x 0.055" x 0.120" 2" x 7" x 0.055" x 0.120" 2" x 9" x 0.072" x 0.224" 3" x 3" x 0.059" x 0.050"		Minimum	=D+%	1/4"0 3/8"0	~ 3" × 0.050"*** 2 - 2" X 3 × 0.030		2" x 3" x 0.050" (3) #6	2" × 3" × 0.050" (3) #8	2"x3"x0.050" (3)#10	2 2" x 3" x 0.050" (3) #10	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	2"x3"x0.050" 2 2 2"x3 x0,030 (3) #12	2" x 4" x 0.050" 3 2 2" x 4 x 0.050"	2" x 5" x 0.050" x 0.100" 3 3 2" x 5" x 0.050" x 0.100" (4) #14	2" x 6" x 0.050" x 0.120" 4 3 2" x 6" x 0.050 x 0.120"	2"x7"x0.055"x0.120" 5 4 2"x7 x0.003 x0	21 4 (8) 100" (8) #12	4"×4"×0.125" 6 4 2"×4 ×0.044 ×0.120" (8) #14	4" x 4" x 0.125" 6 4 2" x 0 x 0.050 x 0.120" (8) #14	4" x 4" x 0.125" 8 6 2" x 6" x 0.050 x 0.120"	4" x 4" x 0.125" 10 8 2" x /" x 0.033 x 0.125	Krae Brace Min. Length Ma	2" x 2" x 0.044"	1'-4"	1.4"	16"	2"x 4"x 0.050" 1'-6" 3'-0"					
nee by 1.100° 1.100	Schedule of Post to Beam Size Aluminum Alioy 6063 T-6 Minimum m Size Beams 40" x 0.100" 50" x 0.100" 50" x 0.100" 50" x 0.120" 50" x 0.060" 50" x 0.050" x 0.120" 50" x 0.050" x 0.120" 50" x 0.050" x 0.120" 50" x 0.072" x 0.050" x 0.120" 50" x 0.072" x 0.050" x 0.120" 50" x 0.072" x 0.050" x 0.120" 50" x 0.062" x 0.369" 50" x 0.050" x 0.050" x 0.120" 50" x 0.062" x 0.369" 50" x 0.062" x 0.369" 50" x 0.065" x 0.050" x 0.120" 50" x 0.062" x 0.060" 50" x 0.065" x 0.065" x 0.120" 50" x 0.065"			=O+%	3/8"@	-		- 6	- 6	,	1	1	2	2	3	4 3	5 4		6 4	6 4	9 8	10 8	K	2" x 2" x	X 10 X 10	× 0 × 10 × 10 × 10 × 10 × 10 × 10 × 10	3 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	2"×4"×					
도 그들 살아나 [다] 다른 [다] [다] [다] [다] [다] [다] [다] [다]	Schedule of Post to Aluminum Alloy 6063 T Aluminum Alloy 6063 T Sze 60" Hollow 3" 60" Hollow 3" 60" X 0.100" 3" 50" x 0.120" 3" 3" 50" x 0.120" 3" 50" x 0.120" 3" 50" x 0.120" 3" 3" 50" x 0.120" 50" x 0.1	m Size				16	1	-	$\frac{1}{1}$	_	-	-	+	d cont		T	_	-	L				mim knee brace										

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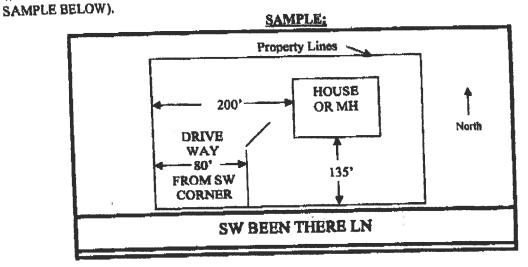
3A-27

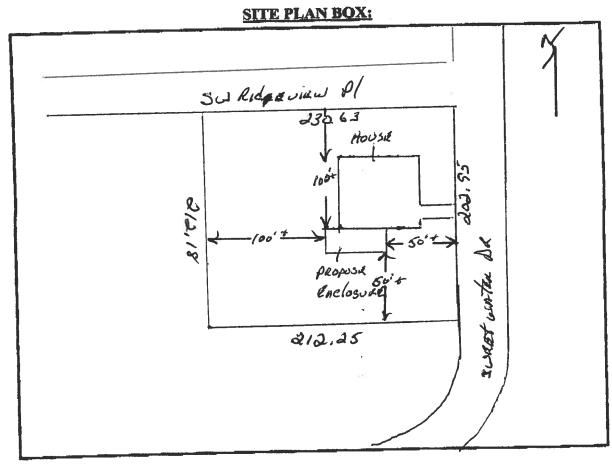
1. A PLAT, PLAN, OR DRAWING SHOWING THE PROPERTY LINES OF THE PARCEL.

2. LOCATION OF PLANNED RESIDENT OR BUSINESS STRUCTURE ON THE PROPERTY WITH DISTANCES FROM AT LEAST TWO OF THE PROPERTY LINES TO THE STRUCTURE (SEE SAMPLE BELOW).

3. LOCATION OF THE ACCESS POINT (DRIVEWAY, ETC.) ON THE ROADWAY FROM WHICH LOCATION IS TO BE ADDRESSED WITH A DISTANCE FROM A PARALLEL PROPERTY LINE AND OR PROPERTY CORNER (SEE SAMPLE BELOW).

4. TRAVEL OF THE DRIVEWAY FROM THE ACCESS POINT TO THE STRUCTURE (SEE





MEMO

Attention:	County Building Depar	tments		
RE:	Permit Materials	: : : : :		
	orize the following persCounty for Timberl	Í		•
License Holde	r: <u>Carl R. Helms</u>			
License Numb	er: <u>SCC056710</u>			
Business Add	ress: 25370 NW 8 th P	ace Newberry,	FL 32669	
Business num	ber: <u>352-472- 6850</u>	Busir	ness Fax:	<u>352-472-6855</u>
Authorized per	sonnel:	i.		
1. Craig Ti	imbe rlake	2.	Larry Cole	
Effective Dates	s: From: <u>10/24/07</u> cense Holder:	To:	8/31/08	4
SWORN to and	d subscribed before me	e this <u>15</u> day o	f_November	2007.
otary Public,	State at Large	- "Hamilton	Expl Florida	n# DD0681685 ires 6/4/2011 Notary Assn., Inc
				Notary Seal