		This Permit Must Be	Prominently Posted	on Premises During Co	nstruction	000026743
APPLICANT	CRAIG T	IMBERAKE		PHONE	352-472-6850	
ADDRESS	25370	NW 8TH PLACE		NEWBERRY		FL 32669
OWNER	VIC PATI	EL		PHONE	386-288-4669	
ADDRESS	592	SWEET BREEZE TRA	AIL	LAKE CITY	8	FL 32025
CONTRACTO	R TIM	BERLAKE ALUMINUM	1	PHONE	352-472-6850	
LOCATION O	F PROPER	TY 90 W, L SWE	EET BREEZE TERR	(CYPRESS LAKE S/D),	STAY TO THE	
		RIGHT, ON	THE R JUST BEFOR	RE THE DIP ON TE ROA	AD	
TYPE DEVEL	OPMENT	SCREEN ENCLOSU	JRE EST	TIMATED COST OF CO	NSTRUCTION	4437.00
HEATED FLO	OR AREA		TOTAL ARE	EA	HEIGHT	STORIES
FOUNDATION	N	WALLS	R	ROOF PITCH	FLO	OOR
LAND USE &	ZONING	RSF-2		MAX	HEIGHT 3:	5
Minimum Set I	Back Requir	ments: STREET-FR	ONT 25.00	REAR	15.00	SIDE 10.00
NO. EX.D.U.	1	FLOOD ZONE	NA	DEVELOPMENT PERI	MIT NO.	
PARCEL ID	33-3S-16-	02434-117	SUBDIVISIO	N CYPRESS LAKE		
LOT <u>17</u>	BLOCK	PHASE 2	UNIT	ТОТА	AL ACRES 0.9	5
			SCG056710	11		A-A-
Culvert Permit 1	No.		tractor's License Num	- Viaig	Applicant/Owner/O	che .
EXISTING		X08-032	CS		Applicant/Owner/C H	N
Driveway Conn	ection	Septic Tank Number	-		roved for Issuance	<u> </u>
COMMENTS:	NOC ON	FILE,				
					Check # or Ca	sh 1598
		FOR BUIL	DING & ZONIN	IG DEPARTMENT		
Temporary Pow	rer	FOR BUIL	Foundation	IG DEPARTMENT	ONLY	sh 1598 (footer/Slab)
Temporary Pow	er	FOR BUIL	Foundation	IG DEPARTMENT	ONLY	(footer/Slab)
Temporary Pow	-	date/app. by	Foundation	date/app. by	ONLY Monolithic	(footer/Slab) date/app. by
Under slab roug	-	date/app. by	Foundation Slab		ONLY Monolithic	(footer/Slab)
* *	th-in plumb	date/app. by ingdate/app. b	Foundation Slab	date/app. by	ONLY Monolithic Sheathing/N	(footer/Slab) date/app. by
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Under slab roug	date/app	date/app. by ing date/app. b R p. by H	Foundation Slab	date/app. by date/app. by ove slab and below wood	ONLY Monolithic Sheathing/N	(footer/Slab) date/app. by lailing date/app. by date/app. by
Under slab roug	date/app	date/app. by ing date/app. b p. by H date/app. by	Foundation Slab by cough-in plumbing above Heat & Air Duct	date/app. by date/app. by ove slab and below wood	ONLY Monolithic Sheathing/N I floor Peri. beam (Lintel)	(footer/Slab) date/app. by lailing date/app. by date/app. by
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Columbia County Building Permit

DATE 02/12/2008

PERMIT

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."

EVERY PERMIT ISSUED SHALL BECOME INVALID UNLESS THE WORK AUTHORIZED BY SUCH PERMIT IS COMMENCED WITHIN 180 DAYS AFTER ITS ISSUANCE, OR IF THE WORK AUTHORIZED BY SUCH PERMIT IS SUSPENDED OR ABANDONED FOR A PERIOD OF 180 DAYS AFTER THE TIME THE WORK IS COMMENCED. A VALID PERMIT RECIEVES AN APPROVED INSPECTION EVERY 180 DAYS. WORK SHALL BE CONSIDERED TO BE IN ACTIVE PROGESS WHEN THE PERMIT HAS RECIEVED AN APPROVED INSPECTION WITHIN 180 DAYS.

Columbia County Building Permit Application

For Office Use Only Application # 080 2 - 05 Date Received 2/C By W Permit # 2 97 43 Zoning Official Oak Date Date Zoning FEMA Map # Zoning Zoning SF - 2
Zoning Official Date 211 05 Flood Zone N/A FEMA Map # Zoning LSF - 2
Land Use Plans Examiner OK 57H Date 2-6-8
Comments
□ NOC □EH 1-Deed or PA □ Site Plan □ State Road Info □ Parent Parcel #
□ Dev Permit # □ In Floodway □ Letter of Authorization from Contractor
□ Unincorporated area □ Incorporated area □ Town of Fort White □ Town of Fort White Compliance letter
Septic Permit No
Name Authorized Person Signing Permit Craig Timberlake Phone 352 -472 -6850
Address 25370 NW 8th Place Newberry, FL 32669
Owners Name Vic Patel Phone 386 - 288 - 4669
911 Address 592 Sweet Breeze Trail
Contractors Name Timberlake Aluminum Const. C. HELLS Phone 352-472-6850
Address 25370 NW 8th Place Newberry FL 32669
Fee Simple Owner Name & Address
Bonding Co. Name & Address N/A
Architect/Engineer Name & Address Lawrence Bennett PO Box 214368 South Daylong, FL 32121
Mortgage Lenders Name & Address
Circle the correct power company – FL Power & Light – Clay Elec. – Suwannee Valley Elec. – Progress Energy
d 00
Property ID Number 33 - 35 - 16-62434 - 117-11X Estimated Cost of Construction 44,437.00
Subdivision Name Cypross Lake Lot 17 Block Unit Phase 2
Driving Directions 90-W TO CYPRESS LAKE. S. B. & SWEETBREEZE ITL STAY
Driving Directions 90-W TO CYPRESS LAKE. S. D. Q SWEETBREETE ITL STAY to be 42 NOME ON the R. LODE "Clust Before Dip on the ROAD) Stante.
Number of Existing Dwellings on Property
Construction of <u>Rosen</u> enclosure Total Acreage 954 Lot Size
Do you need a - <u>Culvert Permit</u> or <u>Culvert Waiver</u> or <u>Have an Existing Drive</u> Total Building Height
Actual Distance of Structure from Property Lines - Front $44'$ Side $80'$ Side $28'$ Rear $70'$

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.

JW LEFT NESSY 2. 11.08

WARNING TO OWNER: YOUR FAILURE TO RECORD A NOTICE OF COMMENCMENT MAY RESULT IN YOU PAYING 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 ATTORNEY BEFORE RECORDING YOUR NOTICE OF COMMENCEMENT.

FLORIDA'S CONSTRUCTION LIEN LAW: Protect Yourself and Your Investment

According to Florida Law, those who work on your property or provide materials, and are not paid-in-full, have a right to enforce their claim for payment against your property. This claim is known as a construction lien. If your contractor fails to pay subcontractors or material suppliers or neglects to make other legally required payments, the people who are owed money may look to your property for payment, even if you have paid your contractor in full. This means if a lien is filed against your property, it could be sold against your will to pay for labor, materials or other services which your contractor may have failed to pay.

NOTICE OF RESPONSIBILITY TO BUILDING PERMITEE:

<u>YOU ARE HEREBY NOTIFIED</u> as the recipient of a building permit from Columbia County, Florida, you will be held responsible to the County for any damage to sidewalks and/or road curbs and gutters, concrete features and structures, together with damage to drainage facilities, removal of sod, major changes to lot grades that result in ponding of water, or other damage to roadway and other public infrastructure facilities caused by you or your contractor, subcontractors, agents or representatives in the construction and/or improvement of the building and lot for which this permit is issued. No certificate of occupancy will be issued until all corrective work to these public infrastructures and facilities has been corrected.

OWNERS CERTIFICATION: 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. I further understand the above written responsibilities in Columbia County for obtaining this Building Permit.

the above written responsibilities in Columbia Cour	nty for obtaining this Building Permit.
Owners Signature	
· · · · · · · · · · · · · · · · · · ·	Contractor's License Number SCG 056710 Competency Card Number
Affirmed under penalty of perjury to by the Contractor and Personally knownor Produced Identification	nd subscribed before me this <u>4</u> day of <u>Feb</u> 20 <u>08</u>
State of Florida Notary Signature (For the Contractor)	SEAL: CRAIG C. TIMBERLAKE MY COMMISSION # DD 289931 EXPIRES: April 12, 2008

NOTICE OF COMMENCEMENT

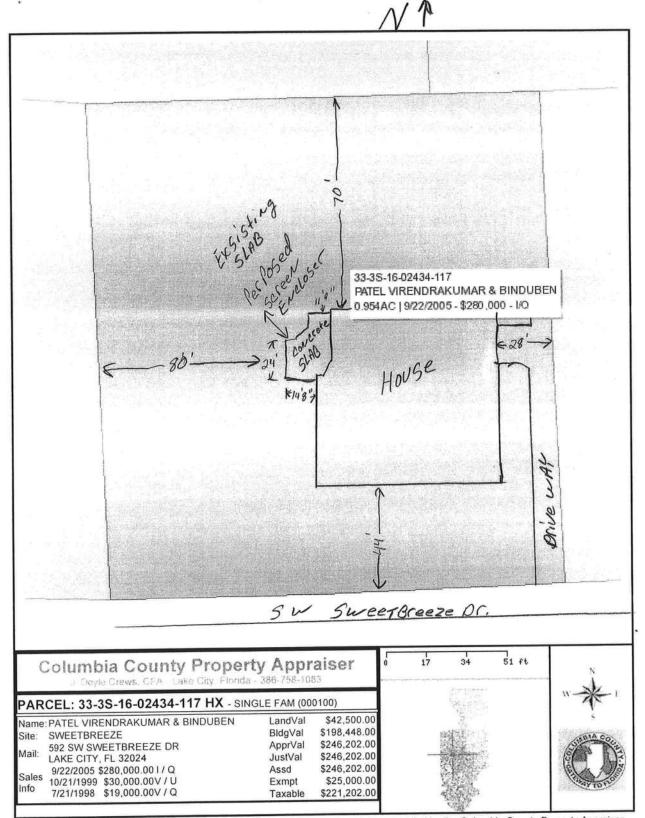
Tax Parcel Identification Number 33-38-16-02434 -117- HX

Inst:200812002301 Date:2/6/2008 Time:8:35 AM

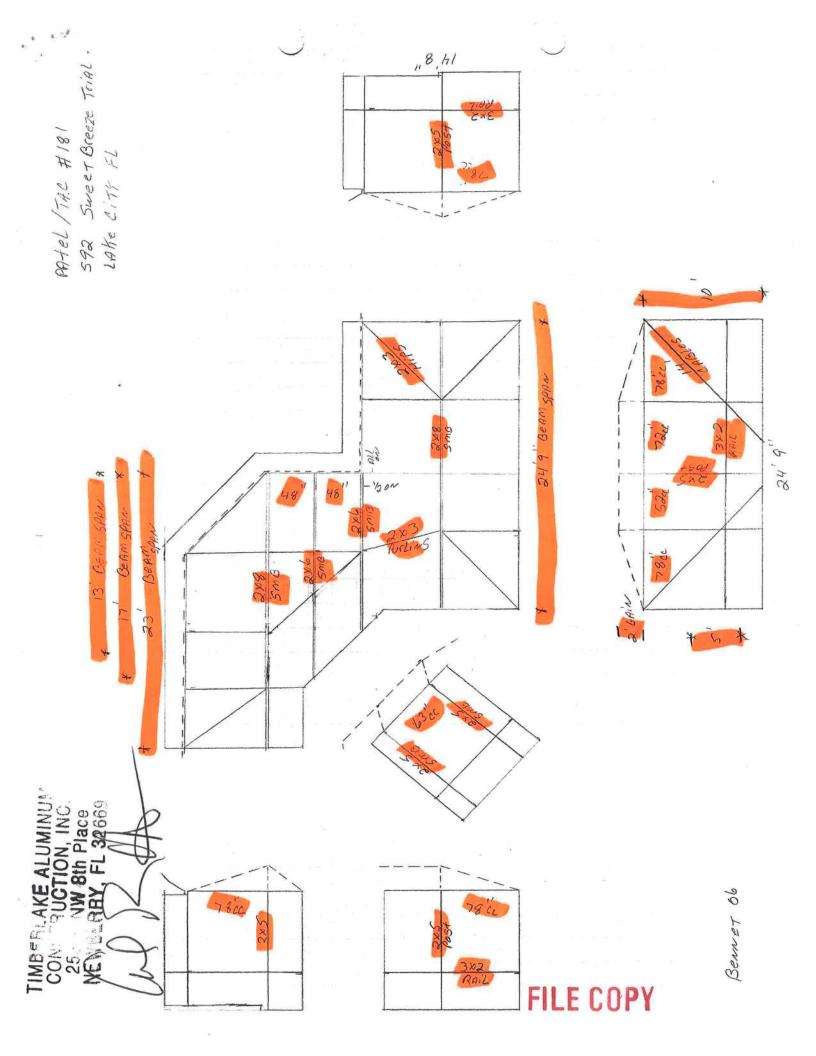
DC,P.DeWitt Cason,Columbia County Page 1 of 1

THE UNDERSIGNED hereby gives notice that improvements will be made to certain real property, and in accordance with Section 713.13 of the Florida Statutes, the following information is provided in this **NOTICE OF COMMENCEMENT**.

Description of property (legal Street (ioh) Address	description): 20+17 CypressLake Phose 2. ORB 744-672-POD 744-671,862-2121 592 Sweed Breeze Trail Lake City, FL WD
General description of improve	ements: Sireen enclosure.
Interest in property Contractor Information Name and address:	Vic Palel 592 Sweetbreeze Tred, Lake City FL of fee simple titleholder (if other than owner) N/A Owner Timberlake Alyminum Const. 25370 NW 8th Place Newberry, 852-472-6850 Fax No. (Opt.)
 Surety Information Name and address: 	NA
b) Amount of Bond:	Facility (Oct.)
	Fax No. (Opt.)
7. Identity of person within the Si a) Name and address:	tate of Florida designated by owner upon whom notices or other documents may be served:
b) Telephone No.:	Fax No. (Opt.)
Florida Statutes: a) Name and address:	lesignates the following person to receive a copy of the Lienor's Notice as provided in Section 713.13(I)(b), Fax No. (Opt.)
b) reiephone No.:	- гах No. (Орг.)
WARNING TO OWNER: ANY COMMENCEMENT ARE CO STATUTES, AND CAN RESULT COMMENCEMENT MUST B	PAYMENTS MADE BY THE OWNER AFTER THE EXPIRATION OF THE NOTICE OF NSIDERED IMPROPER PAYMENTS UNDER CHAPTER 713, PART I, SECTION 713.13, FLORIDA LT IN YOUR PAYING TWICE FOR IMPROVEMENTS TO YOUR PROPERTY; A NOTICE OF E RECORDED AND POSTED ON THE JOB SITE BEFORE THE FIRST INSPECTION. IF YOU INTEND DONSULT YOUR LENDER OR AN ATTORNEY BEFORE COMMENCING WORK OR RECORDING NCEMENT.
	CRAIG C. TIMBERLAKE MY COMMISSION # DD 289931 EXPIRES: April 12, 2008 Sonded Thru Notary Public Underwriters 10. Signature of Owner or Owner's Authorized Office/Director/Partner/Manager LIC PATEL Print Name
	owledged before me, a Florida Notary, this
	as (type of authority, e.g. officer, trustee, attorney (name of party on behalf of whom instrument was executed).
Darranalli, Vanum — OR Bradi	aced Identification Type
Notary Signature Liang	C Timbertoke Notary Stamp or Seal
	tion 92.525, Florida Statutes. Under penalties of perjury, I declare that I have read the foregoing and that the the best of my knowledge and belief.



This information, GIS Map Updated: 1/15/2008, was derived from data which was compiled by the Columbia County Property Appraiser
Office solely for the governmental purpose of property assessment. This information should not be relied upon by anyone as a
determination of the ownership of property or market value. No warranties, expressed or implied, are provided for the accuracy of the data
herein, it's use, or it's interpretation. Although it is periodically updated, this information may not reflect the data currently on file in the
Property Appraiser's office. The assessed values are NOT certified values and therefore are subject to change before being finalized for ad
valorem assessment purposes.



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

I.	Desig	gn Statement:		
La S'B N pr pr N	awrendupplenduppplendupplendupplendupplendupplendupplendupplendupplendupplenduppplendupplendupplendupplendupplendupplendupplendupplendupplenduppplendupplendupplendupplendupplendupplendupplendupplendupplendupppendupplendupplendupplendupplendupplendupplendupplendupplendupppendupplendupplendupplendupplendupplendupplendupplendupplendupppendupplend	plans have been designed in accordance with the Aluminum Structures Design Marce E. Bennett and are in compliance with the 2004 Florida Building Code Edition with ments, 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 e I.P.C. 0.00; MPH Wind Zone for 3 second wind gust; Basic Wind Pressure ses are PSF for roofs & PSF for walls. (see page 1ii for wind loads and deses) A 300 PLF point load is also considered for screen roof members. Wind velocity zones and exposure category is determined by local code. Design pronversion multipliers are on page 1-ii.	th 2006; Exposud higher; Design	ire sign
II.		t Structure Adequacy Statement:		
		e inspected and verify that the host structure is in good repair and attachments ma	de to the	е
	struc	eture will be solid.		
		Carl R. Helms Contractor Authorized Rep* Name (please print) Date: 2 / 1 / 08 Contractor / Authorized Rep* Signature		
		DATEL / 502 SWEETBREEZE TRAIL		
		PATEL / 592 SWEETBREEZE TRAIL Job Name & Address		
	Note	: If the total of beam span & upright height exceeds 50' or upright height exc	shade	
	Note	16', site specific engineering is required.	eeus	
II.	Build	ding Permit Application Package contains the following:	Yes	No
	A. Pr	oject name & address on plans	1	
	B. Si	te plan or survey with enclosure location	\checkmark	
		ontractor's / Designer's name, address, phone number, & signature on plans		
		te exposure form completed	1	
		nclosure layout drawing @ 1/8" or 1/10" scale with the following:	1	
		Plan view with host structure, enclosure length, projection from host structure, and all dimensions	V	
	2	Front and side elevation views with all dimensions & heights		
	۷.	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)	\checkmark	
	"B"	of frame member allowable span conversions from 120 MPH wind zone, Exposure to 120 MPH wind zone and / or "C" or "D" Exposure for load th of:		
	No	te: Conversion factors do not apply to members subject to point load (P).		
	Loc	ok up span in appropriate 120 MPH span table and apply the following formula:		
		Span — Required 0	Converte	ed
	@ 1	20 MPH Span / Hei	ght	
		0.00 (b or d) x 1.00 (b or d) x 1.00 (b or d) =		
		Wind Zone Multiplier Exposure Multiplier (see page 1ii)		
	4.	Upright location (show in plan & elevation view) & size (Table 1.3 & 1.6)	V	
	5.	Chair rail & girt size, length, & spacing (Table 1.4)	V	
	6.	Eave rail size, length, spacing and stitching of	\checkmark	

^{*} 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 7.91 (b or d) x 1.10 (b or d) x 1.00 (b or d) = 8.70 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) 9. Wall cables or K-bracing sizes shown in wall views Yes IV. Highlight details from the Aluminum Structures Design Manual: 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) C. Table 1.6 with beam & upright combination D. Connection details to be use such as: 1. Beam to upright 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 __ft. x _____ft. = __0.00__ft.² @ 100% = _______ Largest side wall: _____ft. x _____ft. = __0.00__ft.² @ 50% = ______ TOTAL = Total area / (233 ft.² / cable for 3/32") = ____ cable pairs Total area / (445 ft.2 / cable for 1/8") = 0 cable pairs 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)

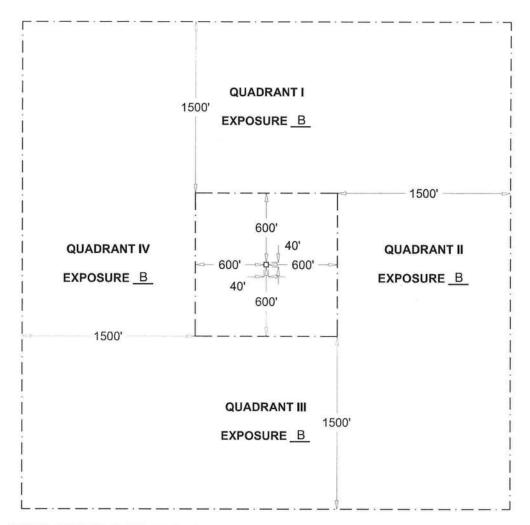
Design Check List for Pool Enclosures (Page 4 of 4)

Example 4: Mansard Roof

Front wall @ eave:
$$\frac{24.90}{W}$$
 ft. x $\frac{10.00}{H}$ ft. = $\frac{249.00}{B}$ ft. 2 $\frac{24.90}{W}$ ft. 2 $\frac{24$

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'.
- 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.

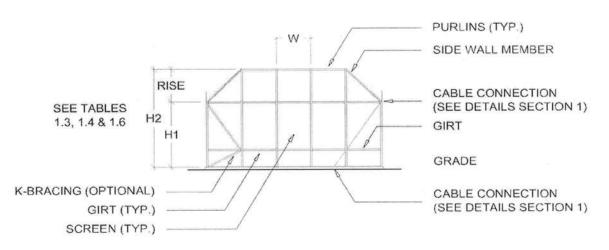
SIGNATURE: DATE: 2/1/08

EVALUATED BY: Carl R. Helms

DATE: 2/1/08

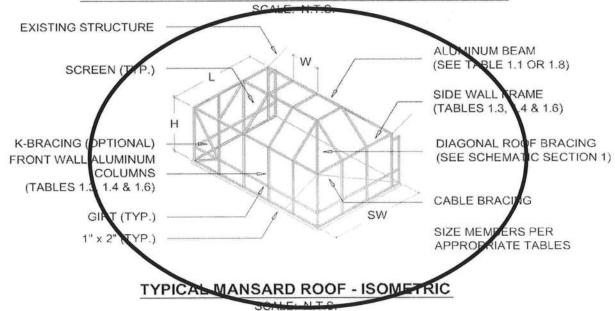
SECTION 1

SCREENED ENCLOSURES



NOTE: USE H2 FOR CABLE AREA CALCULATION

TYPICAL MANSARD ROOF - FRONT WALL ELEVATION



CONNECTION DETAILS AND NOTES ARE FOUND IN THE SUBSEQUENT PAGES.

Lawrence E. Bennett, P.E. FL # 16644

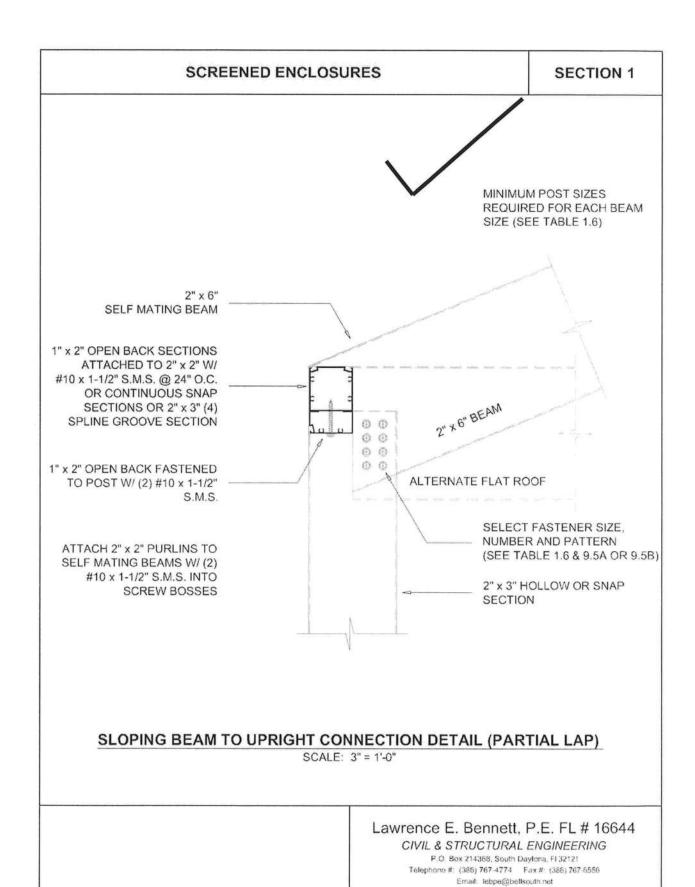
CIVIL & STRUCTURAL ENGINEERING

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

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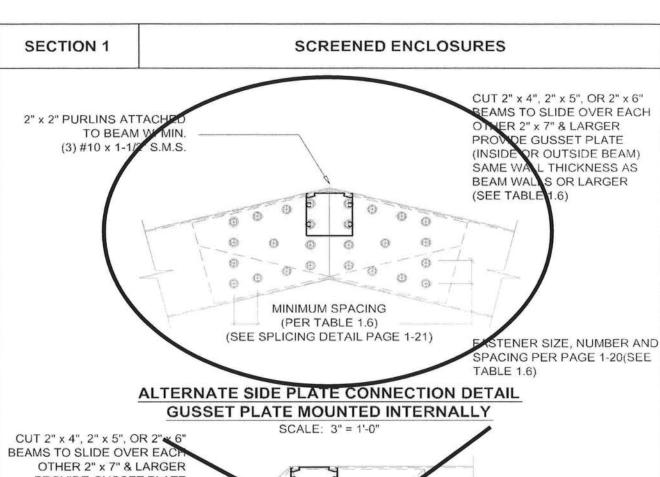
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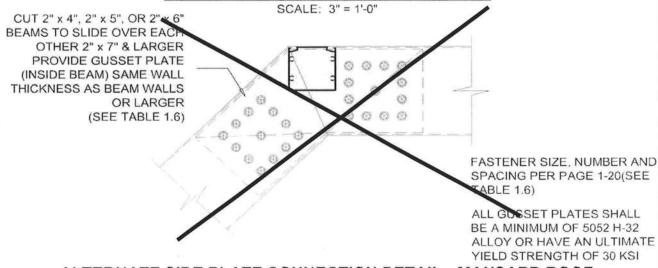
1-2



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

SCALE: 3" = 1'-0"

Lawrence E. Bennett, P.E. FL # 16644

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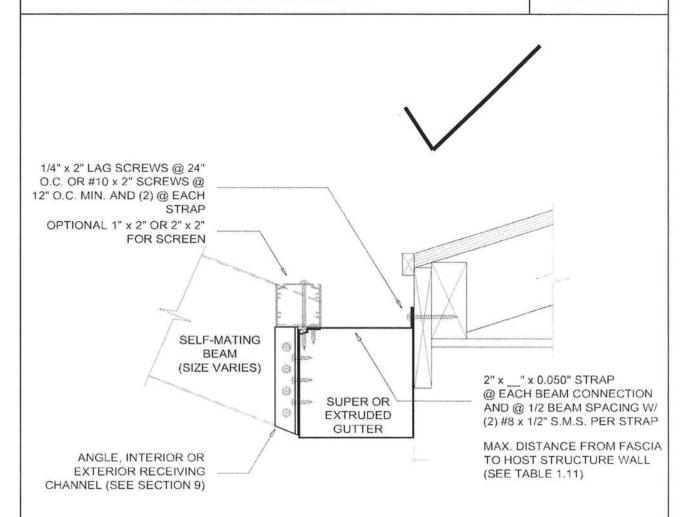
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SECTION 1



ALTERNATE SELF MATING BEAM CONNECTION TO SUPER OR EXTRUDED GUTTER

SCALE: 3" = 1'-0"

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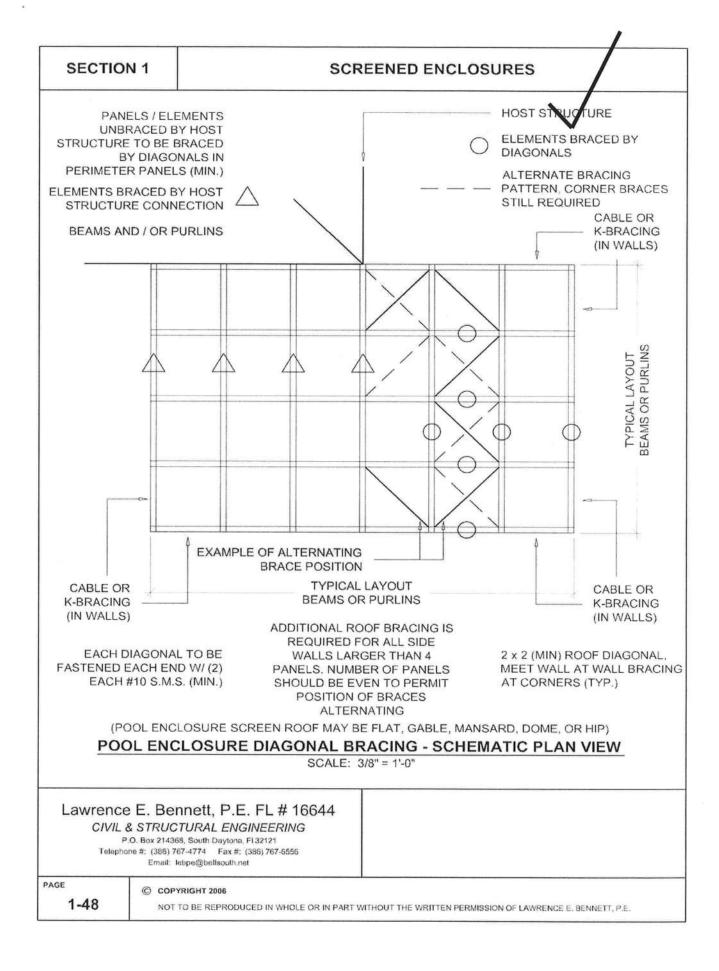
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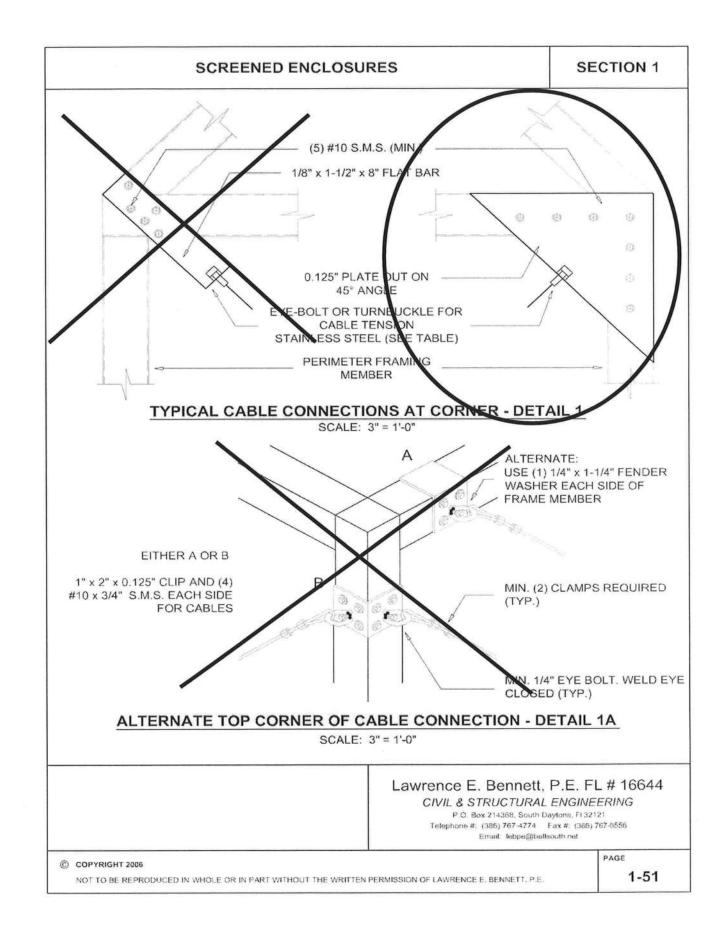
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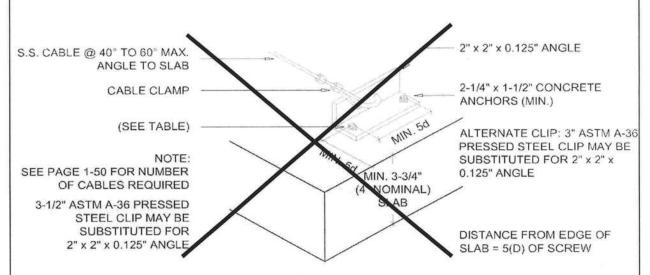
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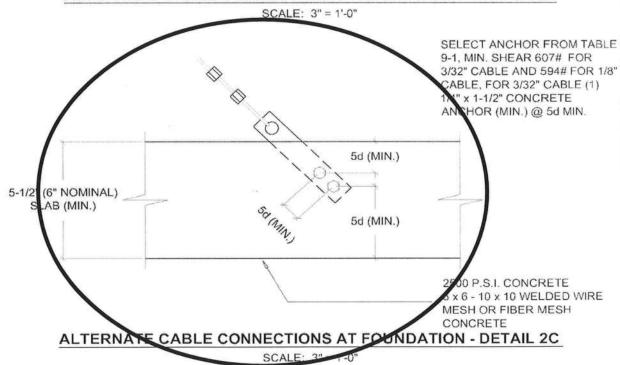




SECTION 1



ALTERNATE CABLE CONNECTION AT SLAB DETAIL - DETAIL 2B



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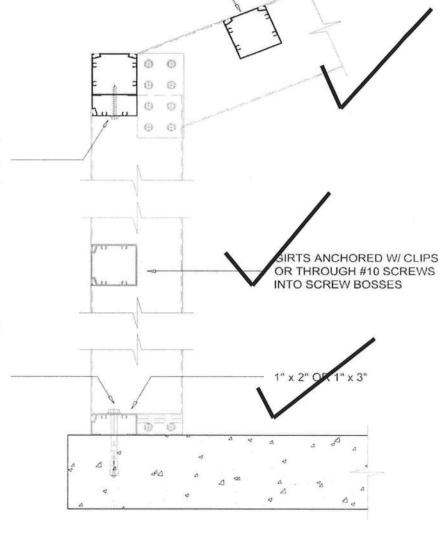
SECTION 1

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.

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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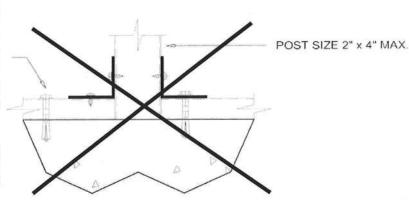
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SECTION 1

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

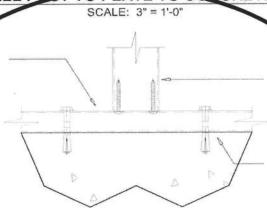
> MIN. 3-1/2" SLAB 2500 P.S.I. CONCRETE 6 x 6 - 10 x 10 WELDED WIRE MESH OR FIBER MESH CONCRETE



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 AND JORS 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) \$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" x 6" BEAM WITH A SPAN OF 23' AND A BEAM & UPRIGHT SPACING OF 7' USE: 1/2 x 17'-11" x 7' x 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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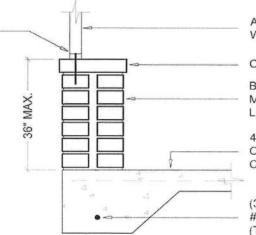
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SECTION 1

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 × 3/4" S.M.S. STRAP TO POST AND (1) 1/4" × 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.)

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

1" PER FT. MAX. FOR 2'-0" MIN. BEFORE SLOPE

3-1/2 YTYP. ALL SLABS) (2) #3 BAR CONT. OR (1) #5 BAR CONT. (1) #5 BAR CONT. (3) #3 BAR CONT. OR

TYPE II

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

1'-0"
TYPE III
STEEP SLOPE FOOTING
> 1'-10"

Notes for all foundation types:

TYPE I

FLAT SLOPE / NO FOOTING

0-2" / 12"

- 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 slab by field soil test (soil penetrometer) 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 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

Table 1.1 120

Allowable Spans for Primary Screen Roof Frame Members

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

niform Load = 4 #/SF, a				9 1	_				7'-0"		8'-0"		9'-0'	
O-Mone	3'-0'	. 1	4'-0"	4'-0"		<u>'</u>	6'-0"		- 1 U	henc	ling (b).	p), deflection (d)		
Hollow Sections	Allo	wable	Span 'L' /		Point Load (P)		or Unite	orm L	4'-5"	Pb	4'-5"	Pb	4'-5"	P
- 2" × 0 044"		Pb	4'-5"	Pb	4'-5"	Pb	4'-5"	Pb	_	_		Pb	5'-2"	P
" x 2" x 0.044"	4'-5"	-		_		Pb	5'-2"	Pb	5'-2"	Pb	5'-2"	_		_
2" x 2" x 0.050"	5'-2"	Pb	5'-2"	Pb		_	7'-6"	Pb	7'-6"	Pb	7'-6"	Pb	7'-6"	P
X Z X 0.000	7'-6"	Pb	7'-6"	Pb	7'-6"	Pb			7'-7"	Pb	7'-7"	Pb	7'-7"	P
2" x 2" x 0.090"	7'-7"	Pb	7'-7"	Pb	7'-7"	Pb	7'-7"	Pb		_	9'-1"	Pb	9'-1"	TP
2" x 3" x 0.045"		-		Pb		Pb	9'-1"	Pb	9'-1"	Pb				_
2" x 4" x 0.050"	9'-1"	Pb	9'-1"	_	-		20'-4"	Ud	19'-4"	Ud	18'-6"	Ud	17-9	10
2" x 5" x 0.062"	20'-5"	Pb	20'-5"	Pb	20'-5" Tributary	PD		1000		-			-	

" x 5" x 0.062"				_	-		OI OII		Beam Spacin		0 -0	\neg	9'-0"	
Self Mating Sections	3'-0"		4'-0"		5'-0"	1 (1)	or Uniform I		oad (U), ben		ding (b), defi		ection (d)	
Sell Mating County	Allo	wable	Span 'L	. /			11'-8"	Pd	11'-8"	Pd	11'-8"	Pd		_
2" x 4" x 0.044 x 0.100"	11'-8"	Pd	11'-8"	Pd	11'-8"	Pd Pd		Pd	16'-1"	Pd	15'-9"	Ud		U
" x 5" x 0.050" x 0.100"	16'-1"	Pd	16'-1"	Pd	16'-1"	Pd	20'-3"	Ud	19'-3"	Ud	18'-5"	Ud	17'-8"	U
2" x 6" x 0.050" x 0.120"	20'-4"	Pd	20'-4"	Pd	20'-4"	Ud			21'-11"	Ud	20'-11"	Ud	20'-2"	Ļ
2" x 7" x 0.055" x 0.120"	24'-9"	Pd	24'-9"	Pd	24'-6"	Ud	-	Ud	27'-2"	Ud	25'-11"	Ud	24'-11"	
" x 8" x 0.072" x 0.224"	34'-2"	Pd		Ud	221 411	Ud	- 11	-	29'-10"	Ud	28'-6"	Ud	27'-5"	Ļ
2" x 9" x 0.072" x 0.224"	39'-3"	Pd	35'-11"	Ud		_	010		31'-11"	Ud	30'-7"	Ud		Ļ
2" x 9" x 0.082" x 0.310"	42'-5"	Ųd		-		_	221 411	-	THE OW	Ud	35'-6"	Ud	34'-2"	1
2" x 10" x 0.092" x 0.369"	49'-3"	Ud	44'-9"	Ud	41'-7"			-		777				

" x 10" x 0.092" x 0.369	T			T	ributary	Load	Width 'V	4	Jean op	T	8'-0"		9'-0'	
Snap Sections	3'-0"		4'-0'											
	Allo	wable	e Span 'L' / I		5'-0" Point Load (P)		4'-10" Pd		4'-10" Pd		4'-10"	Pd	4'-10"	P
" x 2" x 0.044"	4'-10"	Pd	4'-10"	Pd	4'-10"	Pa	7'-6"	Pd	7'-6"	Pd	7'-6"	Pd	7'-6"	1F
" x 3" x 0.045"	7'-6"	Pd	7'-6"	Pd	7'-6"	Pd		Pd	101.00	Pd	10'-8"	Pd	10'-8"	F
" x 4" x 0.045"	10'-8"	Pd	10'-8"	Pd		Pd		Ud	20'-5"	Ud	19'-6"	Ud	18'-9"	1
' x 6" x 0.062"	22'-2"	Pd	22'-2"	Pd		_		Ud		Ud	22'-0"	Ud	21'-2"	1
' x 7" x 0.062"	26'-8"	Pd	26'-8"	Pd	25'-9"	Ud	24-3	Ju		-				

- 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
- 5. Tables are based on a maximum wall height of 16' including a 4' max. mansard or gable. Other conditions may offer better connection to the above spans for total beam spans. spans w/ enclosure site specific engineering.
- 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

				Т	ributary	Load	Width "	W' =	Purlin Sp	pacin	9			
Hollow Sections	3'-6'	m	4'-0"		4'-6"		5'-0"		5'-6"		6'-0"		6'-8"	
7	Allo	wabl	e Span '	L' /	Point Lo	ad (P	or Unif	orm l	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"	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"	Pd	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'-4"	Pd	7'-4"	Pd
2" x 4" x 0.050"	9'-1"	Pb	9'-1"	Pb	9'-1"	Pb	9'-1"	Pb	9'-1"	Pb	9'-1"	Pb	9'-1"	Pb
2" x 5" x 0.062"	14'-1"	Pd	14'-1"	Pd	14'-1"	Pd	14'-1"	Pd	14'-1"	Pd	14'-1"	Pd	14'-1"	Pd

Snap Sections	Tributary Load Width 'W' = Purlin Spacing														
	3'-6	3'-6"		4'-0"		4'-6"		5'-0"		5'-6"		6'-0"		" .	
					Point Lo										
	4'-11"	Pb	4'-11"	Pb	4'-11"	Pb	4'-11"	Pb	4'-11"	Pb	4'-11"	Pb	4'-11"	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'-2"	Pd	9'-2"	Pd	

B. Sections Fastened Through Beam Webs Into Screw Bosses

	Tributary Load Width 'W' = Purlin Spacing														
Hollow Sections	3'-6'	3'-6"		4'-0"		4'-6"		5'-0"		5'-6"		"	6'-8"		
	Allo	wabl	e Span '	L' /	Point Lo	ad (P) or Unif	orm	Load (U),	ben	ding (b),	defle	ction (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"	Ud	

	T	Tributary Load Width 'W' = Purlin Spacing														
Snap Sections	3'-6	"	4'-0	"	4'-6	"	5'-0)" -	5'-6	"	6'-0	"	6'-8	3"		
					Point Lo											
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".
- 2. 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.
- 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.

	Tributary Load Width 'W' = Upright Spacing														
Hallam Postlone	3'-0"		4'-0"	П	5'-0"	$\overline{}$	6'-0"		7'-0"		8'-0"		9'-0"		
Hollow Sections	3.0	-	Allov	vab	e Heigh	t "H	"/ bend	ing	(b), defi	ecti	on (d)			_	
	7'-5"	14	6'-5"	h	5'-8"	Ь	5'-1"	ь	4'-8"	b	4'-3"	ь	3'-11"	b	
2" x 2" x 0.044"		u.	771.411	ũ	6'-3"	h	5'-8"	Ь	5'-2"	Ы	4'-9"	ТЫ	4'-5"	b	
2" x 2" x 0.050"	7'-10"	a	/:-1" ·	В		10	3-0	H		1	6'-1"	1	5'-9"	1	
2" x 2" x 0.090"	8'-11"	d	8'-2"	d	7'-10"	d	7'-1"	D	6'-7"	D		10		15	
And the second s	8'-4"	14	7'-7"	d	7'-9"	d	6'-11"	d	6'-5"	d	5'-11"	b	5'-6"	D	
2" x 3" x 0.045"		۱÷	9'-7"	Ē.	8'-6"	h	7'-9"	h	7'-1"	b	6'-7"	Ь	6'-1"	b	
2" x 4" x 0.050"	11'-2"	D	0 1	В		10		E	-441-011	1	10'-3"	h	9'-7"	h	
2" x 5" x 0.062"	17'-3"	b	14'-10"	ь	13'-2"	b	11'-11"	D	11-0	D	10-3	I D	3-1	15	

	Tributary Load Width 'W' = Upright Spacing														
Self Mating Sections	3'-0"		4'-0"		5'-0"		6'-0"	- C	7'-0"		8'-0"		9'-0"		
Self Mating Sections	3.0	_		vab	e Heigh	t "H	"/ bend	ling	(b), defl	ecti	on (d)	3			
	11'-11"	14	-	d	10'-0"	d	9'-5"	Ь	8'-8"	ь	8'-0"	b	7'-6"	b	
2" x 4" x 0.044 x 0.100"	_	u.	-	3	12'-5"	1	11'-7"	Ь	10'-8"	b	9'-11"	Ь	9'-4"	Ь	
2" x 5" x 0.050" x 0.100"	14'-9"	a	13'-5"	a	-	10		E	12'-0"	l L	11'-3"	h	10'-6"	T _b	
2" x 6" x 0.050" x 0.120"	17'-3"	d	15'-8"	d	14'-4"	Ь	13'-1"	P		10		-	11'-5"	냔	
2" x 7" x 0.055" x 0.120"	19'-8"	d	17'-6"	b	15'-7"	ь	14'-2"	Ь	13'-1"	Ь	12'-2"	D		15	
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"	I	
	26'-8"	1	24'-3"	1	22'-6"	В	21'-2"	d	20'-1"	d	19'-3"	d	18'-2"	b	
2" x 9" x 0.072" x 0.224"	_	u		ļ.		13	22'-9"	1	21'-7"	14	20'-8"	В	19'-10"	Id	
2" x 9" x 0.082" x 0.310"	28'-8"	d	26'-0"	a	24'-2"	0		14		14		1	23'-1"	10	
2" x 10" x 0.092" x 0.369"	33'-3"	d	30'-3"	d	28'-1"	d	26'-5"	q	25'-1"	Ia	23'-11"	<u>u</u>	20-1	To	

	Tributary Load Width 'W'= Upright Spacing														
Snap Sections	3'-0"	125	4'-0"	-	5'-0"	$\overline{}$	6'-0"		7'-0"		8'-0"		9'-0"		
Shap Sections	- 0.0	_	Allov	wabl	e Heigh	t "H	"/ bend	ling	(b), defi	ect	ion (d)	+		_	
	6'-7"	Id	5'-11"	Idl	-5'-7"	d	5'-3"	d	4'-10"	b	4'-5"	b	4'-1"	b	
2" x 2" x 0.044"		19	01.411	131	7' 6"	1	6'-11"	ь	6'-3"	Ь	5'-9"	ь	5'-3"	b	
2" x 3" x 0.045"	8'-10"	a	8-1	a	7-0	10	8'-2"	E	7'-5"	h	6'-9"	h	6'-2"	b	
2" x 4" x 0.045"	11'-2"	d	10'-2"	0	9'-2"	D		D	No.	10		3	12'-8"	12	
2" x 6" x 0.062"	18'-3"	d	16'-7"	d	15'-5"	d	14'-6"	d	13'-9"	10	13'-2"	_	A STREET, STRE	۲÷	
2" x 7" x 0.062"	20'-7"	d	18'-9"	d	17'-5"	d	16'-4"	d	15'-7"	d	14'-10"	d	14'-2"	þ	

- 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 roof 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"
- 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.

ontals Fastened To Posts With Clips

				Trit	outary L	oad	Width 'V	٧' =	Upright	Spa	acing			
Hollow Sections	3'-0"	\neg	4'-0"	T	5'-0"	8	6'-0"		7'-0"		8'-0"		9'-0"	
Hollow Sections	76. 1	_	Allowa	ble	Height	"H"	or Span	"L'	/ bend	ing	(b), defle	ectio	on (d)	
2" x 2" x 0.044"	7'-5"	d	6'-5"	Ы	5'-8"	b	5'-1"	b	4'-8"	b	4'-3"	b	3'-11"	b
2" x 2" x 0.050"	7'-10"	d	7'-1"	ь	6'-3"	b	5'-8"	ь	5'-2"	Ь	4'-9"	ь	4'-5"	b
2" x 2" x 0.090"	8'-11"	d	8'-2"	d	7'-10"	d	7'-1"	b	6'-7"	Ь	6'-1"	b	5'-9"	b
3" x 2" x 0.045"	8'-4"	ā	7'-4"	b	6'-6"	b	5'-10"	b	5'-4"	b	4'-11"	b	4'-7"	b
3" x 2" x 0.070"	9'-5"	ä	8'-6"	d	7'-9"	b	7'-0"	b	6'-5"	b	5'-11"	b	5'-7"	b
2" x 3" x 0.045"	8'-4"	ă	7'-7"	d	7'-9"	d	6'-11"	d	6'-5"	d	5'-11"	Ь	5'-6"	b
THE RESIDENCE OF THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NAMED IN COLUMN	11'-2"	Б	9'-7"	ь	8'-6"	ь	7'-9"	b	7'-1"	b	6'-7"	ь	6'-1"	b
2" x 4" x 0.050" 2" x 5" x 0.062"		_	14'-10"	Ь		b	11'-11"	b	11'-0"	b	10'-3"	b	9'-7"	b

	1.5		9 4 1	Trit	outary L	oad	Width '	W'=	Upright	Spa	cing			
Snap Sections	3'-0"		4'-0"		5'-0"		6'-0'	200	7'-0"	100	8'-0'		9'-0'	-
Chief Control		10 /	Allow	able	Height	"H"	or Spar	n "L'	'/ bend	ing	(b), defl	ectio	n (d)	
2" x 2" x 0.044"	6'-7"	d	5'-11"	d	5'-7"	d	5'-3"	d	4'-10"	b	4'-5"	b	4'-1"	b

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

	-		2 9	Trit	outary L	oad	Width '\	N' =	Upright	Sp	acing			_
Hollow Sections	3'-0"		4'-0"	THE OWNER OF TAXABLE PARTY.	5'-0"	_	6'-0"		7'-0"		8'-0"		9'-0"	
Hollow decrious			Allow	able	Height	"H"	or Span	"L'	'/ bend	ing	(b), defle	ectio	on (d)	
2" x 2" x 0.044"	8'-4"	b	7'-2"	ы	6'-4"	Ы	5'-8"	b	5'-2"	b	4'-9"	b	4'-5"	b
3" x 2" x 0.045"	9'-7"	b	8'-3"	ь	7'-3"	Ь	6'-6"	b	5'-11"	b	5'-6"	b	5'-1"	b
3" x 2" x 0.070"	11'-5"	ь	9'-10"	ь	8'-8"	Ь	7'-10"	Ь	7'-2"	b	6'-8"	b	6'-3"	b
2" x 3" x 0.045"	11'-2"	d	9'-9"	ь	8'-8"	ь	7'-10"	Ь	7'-2"	b	6'-8"	b	6'-2"	b
2" x 4" x 0.050"	12'-6"	ь	10'-9"	ь	9'-6"	ь	8'-7"	b	7'-11"	b	7'-4"	b	6'-10"	b
2" x 5" x 0.062"	19'-3"	ь	16'-7"	ь	14'-9"	b	13'-5"	ь	12'-4"	b	11'-6"	b	10'-9"	b

			Trib	utary L	oad	Width '	W'=	Upright	Spa	cing			11
Snap Sections	3'-0"	4'-0"	-	5'-0"		6'-0"		7'-0'	'	8'-0"		9'-0'	_
Onup oconone		Allowa	able	Height	"H"	or Spar	1 "L"	/ bend	ling	(b), defi	ectio	n (d)	_
2" x 2" x 0.044"	8'-10" d	7'-8"	Ы	6'-9"	Ь	6'-0"	b	5'-5"	b	4'-11"	b	4'-7"	11

- 1. Thicknesses shown are "nominal" industry standard tolerances. No wall thickness shall be less than 0.040".
- 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-ii.

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

5 01 1-14	Upright or	Minimum Purlin, Girt	Notes	Minimu	m Number of	Screws*	Beam Stitching
Beam/Upright	Post/Beam	& Knee Brace Size		#8 x 1/2"	#10 x 1/2"	#12 x ½"	Screw at 24" OC
or Post	2 x 3 SMB or H	The state of the s	Partial Lap	8	6	4	#10
Z X T OILL	2 x 3 SMB or H	THE RESERVE THE PERSON NAMED IN COLUMN TWO IS NOT THE OWNER.	Partial Lap	8	6	4	#8
Z N O OIII			Partial Lap	10	8	6	#10
2 x 6 SMB	2 x 3 SMB or H	Name and Address of the Owner, where the Party of the Owner, where the Party of the Owner, where the Owner, which is the Owner, which	Full Lap	14	12	10	#12
	2 x 4 SMB or H		Full Lap	16	14	12	#14
	2 x 5 SMB or H		Full Lap	18	16	14	#14**
2 x 9 SMB	2 x 6 SMB	2" x 3" x 0.045"		20	18	16	#14**
2 x 9 SMB *	2 x 7 SMB	2" x 4" x 0.050"	Full Lap		18	16	#14**
2 x 10 SMB	2 x 8 SMB	2" x 5" x 0.050"	Full Lap	20	10	10	1 111

	Minimum Distance and	Spacing of Screws	Gusset Plate Thic	kness
Screw Size		Center To Center	Beam Size	Thickness
	Edge To Center	5/8"	2" x 7" x 0.055" x 0.120"	0.063"
#8	5/16"	3/4"	2" x 8" x 0.072" x 0.224"	0.125"
#10	3/8"	1"	2" x 9" x 0.072" x 0.224"	0.125"
#12	1/2"	1-1/2"	2" x 9" x 0.082" x 0306"	0.190"
#14 or 1/4"	3/4"	1-3/4"	2" x 10" x 0.092" x 0.369"	0.250"
5/16"	7/8"	1-3/4	Z X 10 X 0.002 X 0.000	-
3/8"	1"	Z		

* 0.082" wall thickness, 0.310" flange thickness

** (1) Stitching screw at 16" O.C. max.

Connection Example:

2" x 7" beam & 2" x 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

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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