DA FE - 0370	5/2009	Col This Permit M	umbia C Iust Be Promi	ounty Bu	ilding P	ermit	nstruction		RMIT 027670
APPLICANT	J. VINCE	RICHARDSON				PHONE	386.755.5779		
ADDRESS	692	SW ARLINGT	ON BLVD.		LAKE CITY	7	i n 12-14-11	FL	32025
OWNER	KENT &	IRENE LOURCE	ΕΥ		in the second se	PHONE	386.758.9556		
ADDRESS	659	NE CEMETEI	RY LOOP		LAKE CITY	Y	-	FL	32055
CONTRACTO	PR J. V	'INCE RICHARI	SON			PHONE	386.755.5779	-	
LOCATION O	F PROPER	TY 441-	N ТО СЕМЕТ	ERY LOOP,TR	TO 1/2 MILE	ON THE			
		WIT	H CHAIN LIN	KED FENCE.					
TYPE DEVEL	OPMENT	SCREEN ET	NCLOSURE	EST	IMATED CO	ST OF CO	ONSTRUCTION	10488	.00
HEATED FLO	OR AREA	-		TOTAL ARE	Α		HEIGHT _	S1	ORIES
FOUNDATIO?	Ν		WALLS	R	OOF PITCH	_	FL	OOR	
LAND USE &	ZONING	A-3				MAX	K. HEIGHT		
Minimum Set I	Back Requi	rments: STR	EET-FRONT	30.00		REAR	25.00	SIDE	25.00
NO. EX.D.U.	1	FLOOD ZO	ONE	j (1 - w)	DEVELOPM	ENT PER	MIT NO.		
PARCEL ID	33-1S-17-	-04635-000		SUBDIVISION	V	Personal Contraction	X-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1	a Missin	
LOT	BLOCK	РНА	SE	UNIT		TOT	AL ACRES 14	.85	-
			110			/Mrs.	Michana	mark	
Culvert Permit	No.	Culvert Waiver		r's License Num	ber		Applicant/Owner		
EXISTING		X-09-052	Contractor	CFS			RTJ		N
Driveway Conr	nection	Septic Tank Nu	mber	LU & Zonin	g checked by		proved for Issuance	e Nev	v Resident
COMMENTS:			DIW DIV	0.0.701111			Check # or Ca	ash 152	06
Temporary Pov	ver	FOR		G & ZONIN ndation				(fe	ooter/Slab)
		date/app. by			date/app. by		_ Wondhille _	date	/app. by
Under slab roug	gh-in pluml	oing		Slab	ATOTOL SE		Sheathing/		
			ate/app. by		date/app			~ —	date/app. by
Framing			Insulation						
	date/ap	pp. by		date	app. by				
Rough-in plum	bing above	slab and below w	rood floor			El	lectrical rough-in		
Heat & Air Duc	at				ite/app. by			date	e/app. by
neat & All Duc		late/app. by	. Pe	eri. beam (Lintel)date	/app. by	Pool _	data/	app. by
Permanent power		ate/app. by	_ C.O.	Final		16.6	Culvert	date	арр. бу
Pump pole				d	ate/app. by			date/ap	p. by
d d	ate/app. by	Utility Pole	date/app. by	M/H tie do	wns, blocking	, electricit	y and plumbing	C	late/app. by
Reconnection				DV	<u></u>	J. (<u> </u>	Re-roof		
		date/app. by			date/app. by			date/	app. by
BUILDING PEI	RMIT FEE	\$ 55.00	CERTII	FICATION FEE	\$0.00)	SURCHARGE	FEE \$	0.00
MISC. FEES \$	0.00		VING CERT. F	EE\$ 50.00	FIRE FEE	0.00	WAST	E FEE \$ _	
FLOOD DEVEL	OPMENT	HEE A	FLOOD ZON	E FEE \$	CULVER	T FEE \$	тот	AL FEE	105.00
INSPECTORS	OFFICE	1)00			CLERKS	OFFICE	(1)		

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 NOT SUSPENDED, ABANDONED OR INVALID WHEN THE PERMIT HAS RECIEVED AN APPROVED INSPECTION WITHIN 180 DAYS OT THE PREVIOUS INSPECTION.

Columbia County Building Permit Application

For Office Use Only Application	# 0902-31 D	ate Received 2/	23 By Permit # 27670
	/		nd Use A - 3 Zoning A - 3
FEMA Map #V Elevation	WFE	_ River_/	Plans Examiner Date Date
NOC DEH Deed or PA Site	Plan □ State Road Inf	o □ Parent Parce	1#
Dev Permit #			
IMPACT FEES: EMS			
School	= TOTAL		
Septic Permit No. <u>V-09-057</u>			Fax 386-755-7889
Name Authorized Person Signing Pe	ermit Vince	Richardson	Phone 386-755-5779
Address 692 S.W A	rlington Blud	. Lake	City, Fla. 32025
Owners Name Ken + Ire	ene Lourcey		Phone 386-758-9556
911 Address 459 NE C	emetery Loop	Lake City	F19, 32055
Contractors Name Richard	son Aluminum	LLC. Vine	e Richards 386-755-5779
Address 692 S.W. Ar	-lington Blvd.	Lake Cit	y Flq. 32025
Fee Simple Owner Name & Address	s		
Bonding Co. Name & Address			7,7,7,7,7,7,7,7,7,7,7,7,7,7,7,7,7,7,7,
Architect/Engineer Name & Addre	ss Lawrence	e E. Be	nnett
Mortgage Lenders Name & Addres	ss		,
Circle the correct power company	- FL Power & Light -	Clay Elec Si	uwannee Valley Elec.) – Progress Energy
Property ID Number 33-1S-17	-04635-000 H	X_ Estimated Co	ost of Construction 10,488.00
Subdivision Name		ι	ot Block Unit Phase
Driving Directions 441 Nor	th / Turn ri	aht on ce	metery Loop 12 wis on Lef
with chain Lenk	fence,		
		Number of Ex	isting Dwellings on Property
Construction of Screen En	closure		Total Acreage 14.85 Lot Size
Do you need a - <u>Culvert Permit</u> or	Culvert Waiver or Hav	e an Existing Driv	e Total Building Height
Actual Distance of Structure from Pr	operty Lines - Front $\underline{3}$	00 Side4	8 Side 295,5 Rear 830,54
Number of Stories Heated Flo	oor Area	Total Floor Are	ea <u>1767 S.F.</u> Roof Pitch
Application is hereby made to obtai installation has commenced prior to of all laws regulating construction in	the issuance of a per	mit and that all w	as indicated. I certify that no work or ork be performed to meet the standards

Page 1 of 2 (Both Pages must be submitted together.)

Revised 1-10-08

Columbia County Building Permit Application

TIME LIMITATIONS OF APPLICATION: An application for a permit for any proposed work shall be deemed to have been abandoned 180 days after the date of filing, unless such application has been pursued in good faith or a permit has been issued; except that the building official is authorized to grant one or more extensions of time for additional periods not exceeding 90 days each. The extension shall be requested in writing and justifiable cause demonstrated.

TIME LIMITATIONS OF PERMITS: 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 work is commenced. A valid permit receives an approved inspection every 180 days. Work shall be considered not suspended, abandoned or invalid when the permit has received an approved inspection within 180 days of the previous approved inspection.

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: YOU ARE HEREBY NOTIFIED 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.

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.

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 regular understand the above written responsibilities in Columb	ulating construction and zoning. I further
Ken Joursey Owners Signature	
CONTRACTORS AFFIDAVIT: By my signature I understand written statement to the owner of all the above written rethis Building Permit including all application and permit	esponsibilities in Columbia County for obtaining
Contractor's Signature (Permitee)	Contractor's License Number
Affirmed under penalty of perjury to by the <u>Contractor</u> and sul Personally known <u>//</u> or Produced Identification	bscribed before me this <u>20</u> day of <u>Feb</u> 20 <u>69</u> .
State of Florida Notary Signature (For the Contractor)	SANDRA H. TILLOTSON MY COMMISSION # DD 629530 EXPIRES: January 31, 2011 Bonded Thru Budget Notary Services

RETAIN THIS PORTION AS YOUR RECEIPT OR MAIL A SELF-ADDRESSED STAMPED ENVELOPE FOR RETURN OF VALIDATED RECEIPT.

557.1

RONNIE BRANNON, COLUMBIA COUNTY TAX COLLECTOR

REAL ESTATE 2008 119401.0000
NOTICE OF AD VALOREM TAXES AND NON-AD VALOREM ASSESSMENTS

ACCOUNT NUMBER ESCROW CD ASSESSED VALUE **EXEMPTIONS TAXABLE VALUE** MILLAGE CODE R04635-000 36,520 25,000 11,520 003

C 12771 45**AUTO**SCH 5-DIGIT 32024 LOURCEY KEN & IRENE 659 NE CEMETERY LOOP LAKE CITY FL 32055-5222

33-1S-17 5000/5000 14.85 acres COMM NW COR OF S1/2 OF NW1/4 OF SE1/4, RUN E 12.89 FT TO E R/W US-441, S ALONG R/W 10.11 FT FOR POB, CONT SE'LY ALONG See Tax Roll for extra legal.

	AD VALOREM TAXES						
TAXING	G AUTHORITY MILLAGE R	ATE (Dollars per \$1,	.000 of taxable value)		TAXES LEVIED		
C001 S002	BOARD OF COUNTY COMMISSIONERS COLUMBIA COUNTY SCHOOL BOARD	7.8910	25,000	11,520	90.90		
	DISCRETIONARY LOCAL	0.7480 5.2220	25,000 25,000	11,520 11,520	8.62 60.16		
W SR HLSH IIDA	CAPITAL OUTLAY SUWANNEE RIVER WATER MGT DIST LAKE SHORE HOSPITAL AUTHORITY COLUMBIA COUNTY INDUSTRIAL	1.7500 0.4399 2.0160 0.1240	25,000 25,000 25,000 25,000	11,520 11,520 11,520 11,520	20.16 5.07 23.22 1.43		

TOTAL MILLAGE 18.1909 **AD VALOREM TAXES** 209.56

557.14

546.00

551.57

NON-	AD.	VAL	OREM	ACCECCATE	NITC

LEVYING AUTHORITY RATE **AMOUNT** Per Parcel

FFIR FIRE ASSESSMENTS GGAR SOLID WASTE - ANNUAL 146.58 Per Parcel 201.00

FOR INFORMATION OR TO PAY WITH CREDIT/DEBIT CARD VISIT www.columbiataxcollector.com (CONVENIENCE FEE APPLIES)

534.85

NON- AD VALOREM ASSESSMENTS 347.58

COMBINED TAXES AND ASSESSMENTS PAY ONLY ONE AMOUNT SEE REVERSE SIDE FOR IMPORTANT INFORMATION

540.43

If Paid By Nov 30, 2008 Dec 31, 2008 Jan 31, 2009 Feb 28, 2009 Mar 31, 200 Please Pay

ZONING SITE PLAN

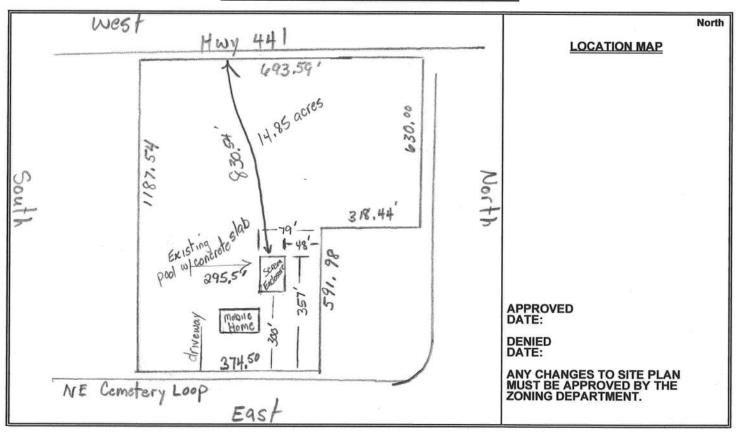
NO.			
140.			

NOTE: PLEASE ACCURATELY SHOW AND LOCATE THE FOLLOWING:

- (1) DIMENSIONS OF PROPERTY
- (2) ALL STREETS BOUNDING YOUR PROPERTY
- (3) ALL PROPOSED AND/OR EXISTING IMPROVEMENTS (BUILDING AND/OR STRUCTURES)
- (4) DISTANCE FROM PROPERTY LINE FOR THE PROPOSED IMPROVEMENT
- (5) ALL WELL AND SEPTIC TANKS PROVIDE SETBACKS
- (6) MUST SHOW DRIVEWAY LOCATION AND DIMENSIONS
- (7) SURVEY CORNER MARKERS MUST BE VISIBLE FOR FIRST INSPECTION
- (8) IF CORNER LOT, PLEASE INDICATE THE FRONT

*** THE ZONING DEPARTMENT CAN NOT APPROVE YOUR ROUTING SLIP WITHOUT THE ABOVE INFORMATION ACCURATELY SUPPLIED.***

INCOMPLETE SITE PLAN WILL RESULT IN DELAYS.



OFFICE USE ONLY

		SEC	TWP	RGE	ZONING MAP	
PGE	ZONING CLASS.	TAZ				
_ FLOOD ZONE _	MAP NO. E	LEV	NOTES: _			
ETBACKS: FROM	и	_ REAR _		SIDE _	SIDE	
	PGE _ FLOOD ZONE	_ FLOOD ZONE MAP NO. EI	PGE ZONING CLASS. TAZ	PGE ZONING CLASS TAZ FLOOD ZONE MAP NO. ELEV NOTES: _	PGE ZONING CLASS TAZFLOOD ZONE MAP NO. ELEV NOTES:	SEC TWP RGE ZONING MAP PGE ZONING CLASS TAZFLOOD ZONE MAP NO. ELEV NOTES: STBACKS: FRONT REAR SIDE

P-1204 Rev 07/08/03

Lawrence E. Bennett, P.E.

P.O. Box 214368 South Daytona, FL 32121 386-767-4774 fax: 386-767-6556

January 1, 2008

TO ALL BUILDING DEPARTMENTS

Re:

Master File Engineering

"ALUMINUM STRUCTURES DESIGN MANUAL" 2004 Florida Building Code with 2006 Supplements

Dear Building Official/Plans Examiner:

This is to certify that the following contractor/company is hereby authorized to use my "ALUMINUM STRUCTURES DESIGN MANUAL" during the year 2008.

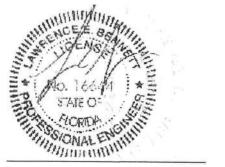
Authorization is on a January to January basis regardless of the edition of the manual. This authorization also applies to contractor master file drawings, "ONE PERMIT ONLY" drawings or any "site specific" drawings that I may furnish the contractor.

The following contractor/company is hereby added to my 2008 MASTERFILE LIST:

Vince Richardson Richardson Aluminum LLC 692 SW Arlington Blvd Lake City, FL 32025

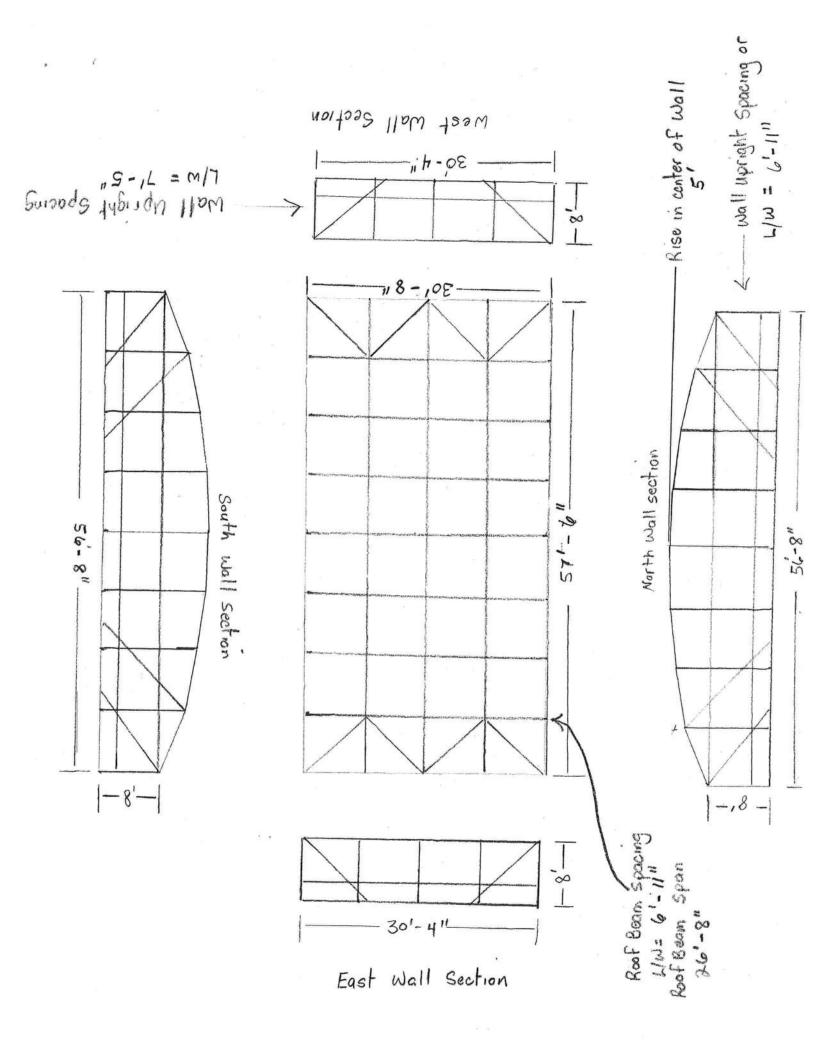
Should you have any questions, please contact me at your convenience.

Sincerely,



Lawrence E. Bennett, P.E. #16644





SECTION 1 SCREENED ENCLOSURES

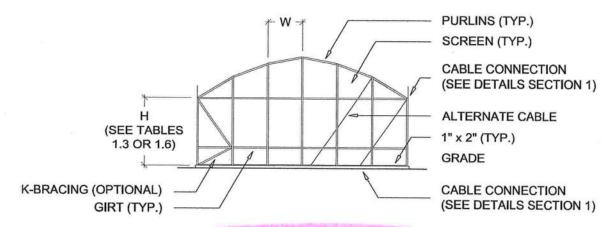
General Notes and Specifications:

- The following structures are designed to be married to site built block or wood frame DCA approved modular structures of adequate structural capacity. The contractor / home owner shall verify that the host structure is in good condition and of sufficient strength to hold the proposed addition.
- If the owner or contractor has a question about the host structure, the owner (at his own expense) shall hire an architect, engineer, or a certified home inspection company to verify host structure capacity.
- 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.
- 4. Spans are for enclosures with mean roof heights less than 30'. For greater heights, consult engineer.
- Connections to fascia shall be limited to overhangs shown in table 1.11 or less unless site specific engineering is provided.
- The proper structural name for a chair rail or top rail of an enclosure is a girt. Thus the terminology shall be interchangeable.
- 7. Screws that penetrate the water channel of the super gutter shall have ends clipped off for safety of cleaning gutter and the heads of screws through the gutter into the fascia shall be caulked.
- 8. Section 7 contains span tables and attachment details for pans and composite panels.
- 9. When using TEK screws in lieu of S.M.S., longer screws must be used to compensate for drill head.
- 10. An additional super gutter strap or ferrule is required to be located near the midpoint of the beam spacing. Straps shall be attached to each truss / rafter tail when a 2" sub-fascia does not exist. Straps at the beam are not required when straps are placed @ each truss / rafter tail and spacing of straps does not exceed 2'-0".
- 11. Super or extruded gutter details are applicable to all widths of super or extruded gutters, and gutters may be substituted. Gutter straps and/or ferrules shall be the width of the inside and outside of the super or extruded gutter respectively. The center of the knee braces shall not be more than 6" above the top of the super or extruded gutter.
- 12. If the sub-fascia is 3/4", and the sub-fascia is in good repair, a 3/4" P.T.P. strip the width of the fascia may be added to the existing sub-fascia by attaching the plywood with (2) 16d x 3" common nails or (2) #8 x 3" screws. This gives the equivalent of a 2" fascia.
- 13. Spans may be interpolated between values but not extrapolated outside values.
- 14. All 2" X 4" and larger purlins shall have an internal or external angle clip or screw boss to fasten the bottom of the purlin to the beam.
- Load width and / or panel spacing used in determining spans / heights is measured from center to center of the members.

EXAMPLE:

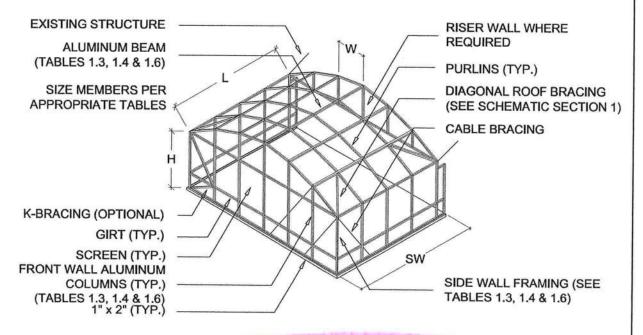
- Screen panel A is 6' center to center. Screen panel B is 7' center to center. The load width of the frame member between panel A and B is (6'/2 + 7'/2) = 6.5' or 6'-6".
- The distance, spacing or load width is not measured between frame members as that would add 2" to the load width if figured that way.
- 16. For Design Check List and Inspection Guides for Screened Enclosures, see Appendix (Section 10).
- 17. All aluminum extrusions shall meet the strength requirements of ASTM B221 after powder coating.
- 18. Other shapes than those shown in Section 8 with State Product Approvals may be used with the details of this section so long as the shapes are compatible with the details.
- All aluminum shall be ordered as to the alloy and hardness after heat treatment and paint is applied.
 Example: 6063-T6 after heat treatment and paint process.

SECTION 1



TYPICAL DOME ROOF - FRONT WALL ELEVATION

SCALE: N.T.S.



TYPICAL DOME ROOF - ISOMETRIC

SCALE: N.T.S.

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, Fl 32121
Telephone #: (386) 767-4774 Fax #: (386) 767-6556
Email: lebpe@bellsouth.net

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Section 1 Design Statement:

The structures designed for Section 1 are framing systems with screen roofs & walls and loads have been determined by wind tunnel test that include any negative internal pressure coefficient. Since these structures are open, the negative internal pressure coefficient is considered to be 0.00. The design loads used are from Chapter 20 of the 2004 Florida Building Code w/ 2006 Supplements. The loads assume a mean roof height of less than 30'; roof slope of 0° to 20°; I = 0.87 for 100 MPH and 0.77 for 110 or higher. All loads are based on 20 / 20 screen or larger. Multiply wall heights by 1.10 for members controlled by bending(b) and 1.07 for members controlled by deflection(d) when using 18 / 14 screen. All pressures shown in the below table are in PSF (#/SF). All framing components are considered to be 6063-T6 alloy. For components of 6005-T5 and 6061-T6 multiply spans by 1.13.

General Notes and Specifications for Section 1 Tables:

SECTION 1 Uniform Loads for Structures with Screen Roof & Walls

	Basic	Exposure 'B'			Exposure 'C'		
Wind Velocity MPH	Wind Pressure	Roofs	Windward Walls	Leeward Walls	Roofs	Windward Walls	Leeward
100	13	3	12	10	5	17	13
110	14	4	13	9	5	18	14
120	17	4	15	13	6	21	17
123	18	4.3	15,9	13.3	6.3	22.2	17.6
130	20	5	18	14	7	25	
1401 & 2	23	6	21	15	0	29	19
150	26	7	24	18	9	33	23

Loads per table 2002.4

Multipliers only apply to members when spans / heights are controlled by wind pressure, not by point load.

Conversion Table 1A

Wind Zone Conversion Factors for Screen Roof or Wall Frame Members

From 120 MPH Wind Zone to Others; Exposure 'B'

	Ro	ofs	Walls		
Wind Zone MPH	Applied Load #/ SF	Conversion Factor	Applied Load #/ SF	Conversion Factor	
100	3	1.15	12	1.12	
110	4	1.00	13	1.07	
120	4	1.00	15	1.00	
123	4.3	0.96	15.9	0.97	
130	5	0.89	18	0.91	
1401 & 2	6	0.82	21	0.85	
150	7	0.76	24	0.79	

Multipliers are for wall loads only.

Multipliers only apply to members when spans / heights are controlled by wind pressure, not by point load.

Conversion Table 1B

Load Conversion Factors Based on Mean Roof Height from Exposure "B" to "C" & "D"

	Expo	sure "B" to '	"C"	Exposure "B" to "D"			
Mean Roof Height*	Load Conversion	Span Multiplier		Load Conversion	Span Multiplier		
	Factor	Bending	Deflection	Factor	Bending	Deflection	
0 - 15'	1.21	0.91	0.94	1.47	0.83	0.88	
15' - 20'	1.29	0.88	0.92	1.54	0.81	0.87	
20' - 25'	1.34	0.86	0.91	1.60	0.79	0.86	
25' - 30'	1.40	0.85	0.89	1.66	0.78	0.85	
30' - 40'	1.37	0.85	0.90	1.61	0.79	0.85	

^{*} Use larger mean roof height of host structure or enclosure

Values are from ASCE 7-02

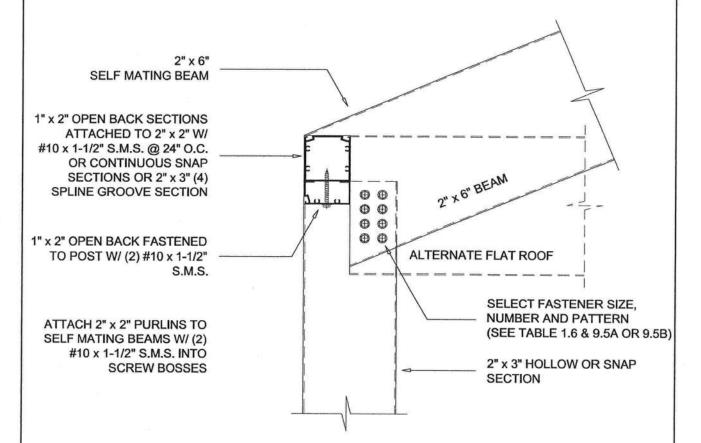
Multipliers only apply to members when spans / heights are controlled by wind pressure, not by point load.

Conversion Example (Convert span for Exposure "B" to "C"):

If max span found from span tables for Exposure "B" = 31'-11" = 31.92' and the mean roof height of the structure is 0-15' then multiply span by 0.91 the span for Exposure "C" is 31.92' * 0.91 = 29.05' = 29'-1"

SECTION 1

MINIMUM POST SIZES REQUIRED FOR EACH BEAM SIZE (SEE TABLE 1.6)



SLOPING BEAM TO UPRIGHT CONNECTION DETAIL (PARTIAL LAP)

SCALE: 3" = 1'-0"

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

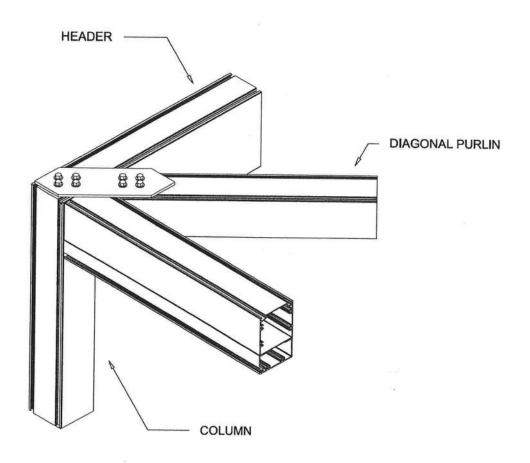
CIVIL & STRUCTURAL ENGINEERING

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

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WIND BRACE CONNECTION DETAIL

SCALE: 3" = 1'-0"

NOTES:

- Wind bracing shall be provided at each side wall panel when enclosure projects more than three panels from host structure. Structures of four or more panels shall be spaced for even number of panels for opposing wind bracing.
- 2. Cut brace parts with min. 12" lap of larger and smaller brace.
- 3. Cut receiving channel with angle.

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

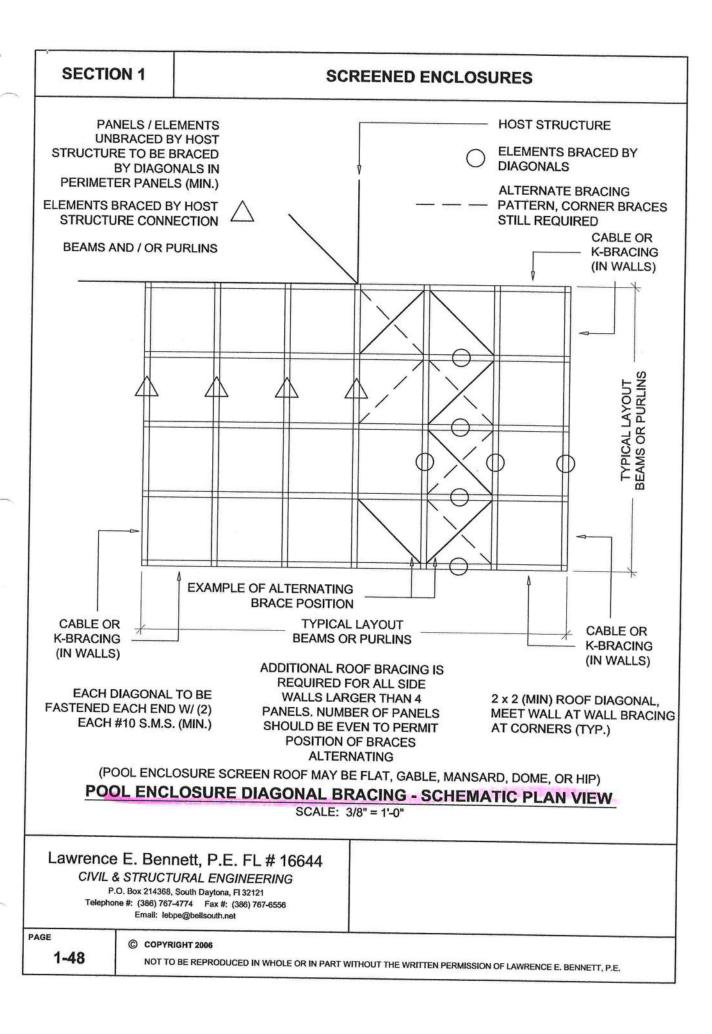
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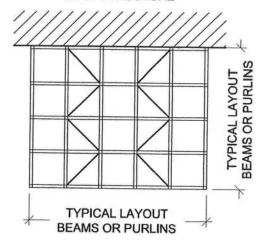
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SECTION 1

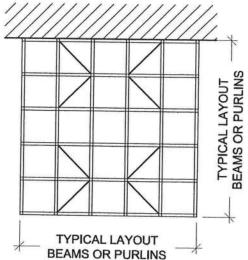




WIND BRACING PATTERN TYPICAL FOR EVEN NUMBER OF SIDE PANELS OVER 4

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

HOST STRUCTURE



WIND BRACING PATTERN TYPICAL FOR ODD NUMBER OF SIDE PANELS OVER 4

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

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

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CABLE BRACING

General Notes and Specifications:

- The following shall apply to the installation of cables as additional bracing to DIAGONAL bracing for pool enclosures:
 - a) FRONT WALL CABLES 7 x 19 STAINLESS STEEL

CABLE DIAMETER	TOTAL ALLOWABLE WALL AREA *					
3/32"	233 Sq. Ft. / PAIR OF CABLES					
1/8"	445 Sq. Ft. / PAIR OF CABLES					

^{*} TOTAL WALL AREA = 100% OF FRONT WALL + 50% OF ONE SIDE WALL

EXAMPLE:

FRONT WALL AREA @ 100% (8' x 32') = 256 Sq. Ft. SIDE WALL AREA @ 50% (8' x 20') = 80 Sq. Ft. TOTAL WALL AREA = 336 Sq. Ft.

233 Sq. Ft. x 2 sets = 466 Sq. Ft. > 336 Sq. Ft.; thus two sets of 3/32" cables is required.

b) SIDE WALL CABLES - 7 x 19 STAINLESS STEEL

CABLE DIAMETER	SIDE WALL CABLE **				
3/32"	ONE PER 233 Sq. Ft. OF WALL				
1/8"	ONE PER 445 Sq. Ft. OF WALL				

^{**} SIDE WALL CABLES ARE NOT REQUIRED FOR SIDE WALLS LESS THAN 233 Sq. Ft.

c) To calculate the required pair of cables for free standing pool enclosures use 100% of each wall area & 50% of the area of one adjacent wall.

NOTES:

- 1. Where wall height is such that a girt is required between the top or eave rail and the chair rail, (i.e. a mid-rise girt), then the front wall shall have two cable pairs and they shall be attached to the top rail and the mid-rise rail. If more than one additional girt is required between the top or eave rail and the chair rail, then there shall be an additional front wall cable pair at that girt also.
- 2. Side walls do not require cables until the side wall area is greater than 233 Sq. Ft.. The side wall cable may be attached at the mid-rise girt or the top rail.
- 3. Standard rounding off rules apply. ie: if the number of cables calculated is less than 2.5 pairs use two cables; if the number of cables calculated is 2.5 pairs or greater use 3 pairs of cables.
- 4. Additional roof bracing is required for all side walls larger than 4 panels. Number of panels shall be even and position shall be alternating.

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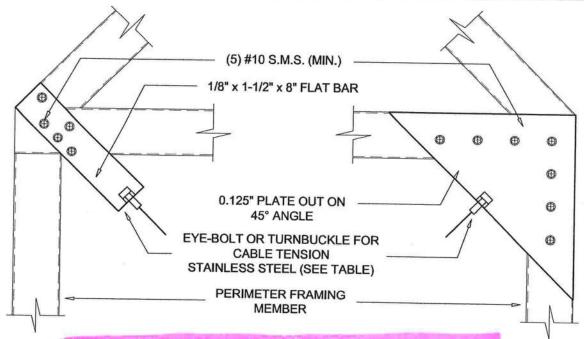
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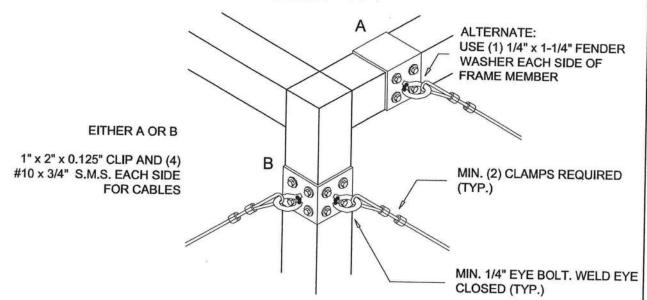
1-50

SECTION 1



TYPICAL CABLE CONNECTIONS AT CORNER - DETAIL 1

SCALE: 3" = 1'-0"



ALTERNATE TOP CORNER OF CABLE CONNECTION - DETAIL 1A

SCALE: 3" = 1'-0"

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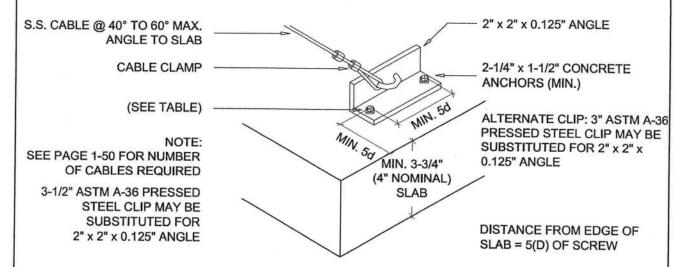
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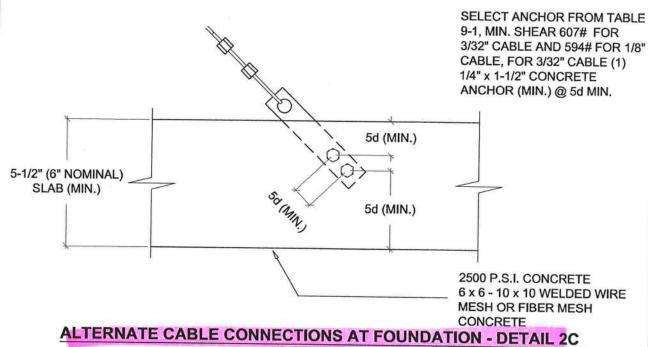
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SECTION 1



ALTERNATE CABLE CONNECTION AT SLAB DETAIL - DETAIL 2B

SCALE: 3" = 1'-0"



SCALE: 3" = 1'-0"

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SECTION 1

SCREENED ENCLOSURES

0 0

0 0

0 0

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

GIRTS ANCHORED W/ CLIPS OR THROUGH #10 SCREWS INTO SCREW BOSSES

PURLIN & CHAIR RAIL DETAIL

SCALE: 3" = 1'-0"

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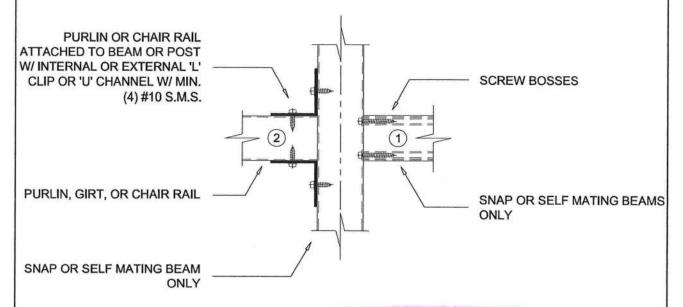
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SECTION 1



PURLIN TO BEAM OR GIRT TO POST DETAIL

SCALE: 3" = 1'-0"

- FOR WALLS LESS THAN 6'-8" FROM TOP OF PLATE TO CENTER OF BEAM CONNECTION OR BOTTOM OF TOP RAIL THE GIRT IS DECORATIVE AND SCREW HEADS MAY BE REMOVED AND INSTALLED IN PILOT HOLES
- 2 FOR ALL OTHER PURLINS AND GIRTS IF THE SCREW HEADS ARE REMOVED THEN THE OUTSIDE OF THE CONNECTION MUST BE STRAPPED FROM GIRT TO POST WITH 0.050" x 1-3/4" x 4" STRAP AND (4) #10 x 3/4" S.M.S. SCREWS TO POST AND GIRT

IF GIRT IS ON BOTH SIDES OF THE POST THEN STRAP SHALL BE 6" LONG AND CENTERED ON THE POST AND HAVE A TOTAL (12) $\#10 \times 3/4$ " S.M.S.

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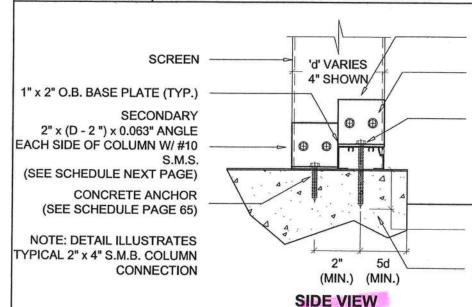
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SECTION 1

SCREENED ENCLOSURES



2" x 2" x 0.063" PRIMARY ANGLE EACH SIDE

#10 x 3/4" S.M.S. EACH SIDE (SEE SCHEDULE NEXT PAGE)

5d* MINIMUM EDGE DISTANCE FROM EXTERIOR OF COLUMN TO OUTSIDE EDGE OF SLAB

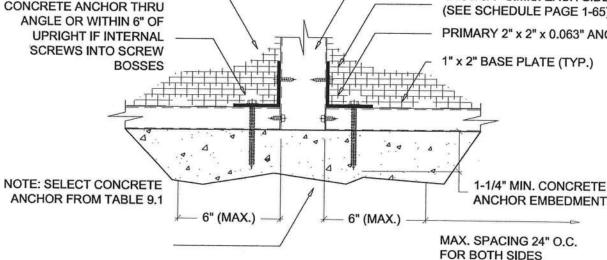
BOLTØ	* 5d DISTANCE	4d
1/4"	1-1/4"	1"
3/8"	1-7/8"	1-1/2"

GRADE

1-1/4" MIN. CONCRETE ANCHOR EMBEDMENT 2500 P.S.I. CONCRETE OR ALTERNATE 2" x __ WOOD DECK

TYPICAL S.M. OR SNAP SECTION COLUMN #10 x 3/4" S.M.S. EACH SIDE (SEE SCHEDULE PAGE 1-65)

PRIMARY 2" x 2" x 0.063" ANGLE



FRONT VIEW

2" x 4" OR LARGER SELF MATING OR SNAP SECTION POST TO DECK DETAILS SCALE: 3" = 1'-0"

NOTE:

- 1. FOR SIDE WALLS OF 2" x 4" OR SMALLER ONLY ONE ANGLE IS REQUIRED.
- 2. PREDRILL PAVERS W/ MIN. 1/4" MASONRY BIT.

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SCREEN

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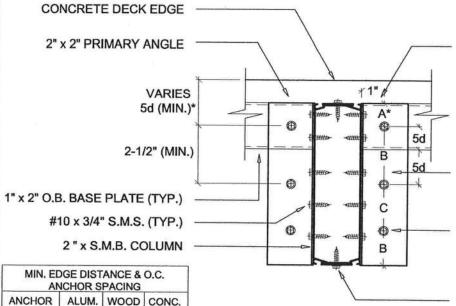
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SECTION 1





SCREEN * ABSOLUTE MINIMUM EDGE OF CONCRETE TO C.O. FASTENER = 5d

SECONDARY 2" x 2" x 0.063" ANGLE (SEE SECONDARY ANGLE ANCHOR SCHEDULE AND SECTION 9)

CONCRETE ANCHORS INTO PRIMARY AND SECONDARY ANGLES

S.M.S. STITCHING SCREWS @ 24" O.C. FOR S.M.B. (SEE TABLE 1.6 FOR SIZE)

TOP VIEW POST TO DECK DETAIL

Primary and Secondary Anchor Schedule

4d

15/16" 1-1/2" 1-7/8"

5d

1-1/4"

1-9/16"

Column	Sec	ondar	y Angle		Maximum Number and Spacing Anchors											
Size	Angle	Angle Number of Anchors		1/4"			5/16"			3/8"						
	Length "L"	1/4"	5/16"	3/8"	#	"A"	"B"	"C"	#	"A"	"B"	"C"	#	"A"	"B"	"C"
2 x 4	2"	4	4	4	4	1"	1"	1"	4	1"	1"	1"	4	1"	1"	1"
2 x 5	3"	4	4	4	4	1"	1-1/2"	-	4	1"	1-1/2"	-	4	1"	1-1/2"	-
2 x 6	4"	4	4	4	4	1"	2"	-	4	1"	2"	-	4	1"	2"	
2 x 7	5"	6	4	4	6	1"	5/8"	1-7/8"	4	1"	2-1/2"	-	4	1"	2-1/2"	-
2 x 8	6"	6	4	4	6	1"	5/8"	2-3/8"	4	1"	3"	-	4	1"	3"	-
2 x 9	7"	6	6	4	6	1"	5/8"	2-7/8"	6	1"	13/16"	2-7/8"	4	1"	3-1/2"	<u> </u>
2 x 10	8"	8	6	6	8	1"	5/8"	2"	6	1"		3-3/16"	6	1"	3/4"	3-1/4"

SCALE: 3" = 1'-0"

5/16"

Calculate the number of anchors required: 1.5 x beam span / 2 x beam spacing x roof wind pressure (PSF) = total #;

if 1.5 x 30¹/2 x 6¹ x 10 PSF = = 1350# and 1/4" x 1/4" Tapcon in tension @ 5d = 427# / ea. (see table 9.1)

then 1350# / 427# / ea. = 3.16 ea. use (3) ea., secondary angle not required

Actual Edge Distance Example:

2-1/2d

5/8" 25/32" 1-1/4"

From edge of concrete to fastener = 2" / dia. of 0.25" = 8d

Note:

For attachment to wood deck substitute wood fasteners for concrete fasteners & calculate the required number of fasteners using tables from section 9.

Lawrence E. Bennett, P.E. FL # 16644 CIVIL & STRUCTURAL ENGINEERING

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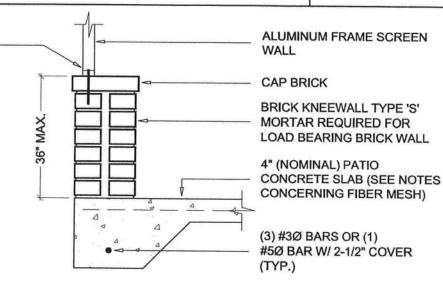
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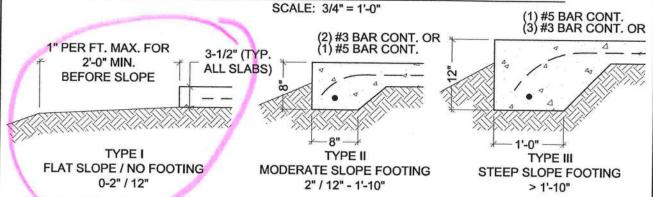
SECTION 1

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 x 0.063" THICK STRAP @ EACH POST FROM POST TO FOOTING W/ (2) #10 x 3/4" S.M.S. STRAP TO POST AND (1) 1/4" x 1-3/4" CONCRETE ANCHOR TO SLAB OR FOOTING



BRICK 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 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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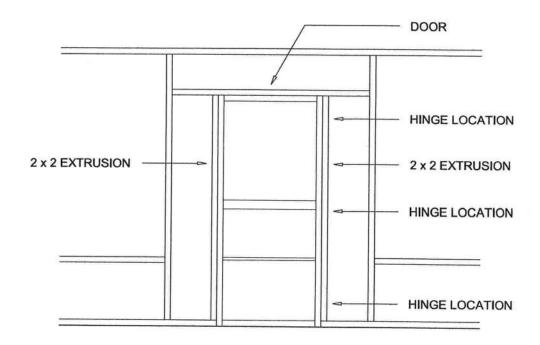
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NOTES:

- 1. Door to be attached to structure with minimum two (2) hinges.
- 2. Each hinge to be attached to structure with minimum four (4) #12 x 3/4" S.M.S..
- 3. Each hinge to be attached to door with minimum three (3) $\#12 \times 3/4$ " S.M.S..
- 4. Bottom hinge to be mounted between 10 inches and 20 inches from ground.
- 5. Top hinge to be mounted between 10 inches and 20 inches from top of door.
- 6. If door location is adjacent to upright a 1" \times 2" \times 0.044" may be fastened to upright with #12 \times 1" S.M.S. at 12" on center and within 3" from end of upright.

TYPICAL SCREEN DOOR CONNECTION DETAIL

SCALE: N.T.S.

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

CIVIL & STRUCTURAL ENGINEERING P.O. Box 214368, South Daytona, Fl 32121

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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

				Γrib	utary Lo	ad	Width 'W	"=	Upright :	Spa	cing			
Hollow Sections	3'-0'	•	4'-0"		5'-0"		6'-0"		7'-0"		8'-0"		9'-0"	
		-	llowable	He	ight "H'	or	Span "L'	"1	bending	(b),	deflecti	on	(d)	_
2" x 2" x 0.044"	7'-5"	d	6'-5"	b	5'-8"	b	5'-1"	b	4'-8"	Ь	4'-3"	Ь	3'-11"	Tb
2" x 2" x 0.050"	7'-10"	d	7'-1"	b	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"	ь	6'-7"	ь	6'-1"	ь	5'-9"	b
3" x 2" x 0.045"	8'-4"	d	7'-4"	b	6'-6"	b	5'-10"	ь	5'-4"	b	4'-11"	ь	4'-7"	b
3" x 2" x 0.070"	9'-5"	d	8'-6"	d	7'-9"	ь	7'-0"	ь	6'-5"	ь	5'-11"	ь	5'-7"	b
2" x 3" x 0.045"	8'-4"	d	7'-7"	d	7'-9"	d	6'-11"	d	6'-5"	d	5'-11"	b	5'-6"	b
2" x 4" x 0.050"	11'-2"	b	9'-7"	ь	8'-6"	Ь	7'-9"	ь	7'-1"	b	6'-7"	ь	6'-1"	Ь
2" x 5" x 0.062"	17'-3"	b	14'-10"	ь	13'-2"	b	11'-11"	ь	11'-0"	b	10'-3"	b	9'-7"	Б

Snap Sections		Tributary Load Width 'W'= Upright Spacing												
	3'-0'	•	4'-0'	•	5'-0'		6'-0'	•	7'-0"		8'-0'		9'-0	**
		A	llowable	e He	ight "H'	or	Span "L	"/	bending	(b),	deflect	ion	(d)	
2" x 2" x 0.044"	6'-7"	d	5'-11"	d	5'-7"	d	5'-3"	Id	4'-10"	Ь	4'-5"	Tb	4'-1"	Th

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

		Tributary Load Width 'W' = Upright Spacing												
Hollow Sections	3'-0'		4'-0'		5'-0"		6'-0"		7'-0"	_	8'-0"		9'-0'	
		-	llowable	е Не	eight "H'	or	Span "L	"1	bending	(b)	deflecti	on (d)	
3" x 2" x 0.045"	9'-7"	b	8'-3"	Ь					5'-11"		5'-6"	ĪЬ	5'-1"	Tb
3" x 2" x 0.070"	11'-5"	b	9'-10"	Ь	8'-8"	b	7'-10"	Ь	7'-2"	b	6'-8"	b	6'-3"	h
2" x 3" x 0.045"	11'-2"	d	9'-9"	Ь		_		ь		b	6'-8"	b	6'-2"	b
2" x 4" x 0.050"	12'-6"	b	10'-9"	Ь	9'-6"	b	-	Ь	7'-11"	b	7'-4"	ь	6'-10"	1 b
2" x 5" x 0.062"	19'-3"	ь	16'-7"	Ь	14'-9"	Ь			12'-4"		The second secon		10'-9"	_

				Trib	utary Lo	ad	Width 'V	V'=	Upright S	Spa	cing			
Snap Sections	3'-0"	W.	4'-0"	0): 11	5'-0'		6'-0'		7'-0"		8'-0"		9'-0	**
		A	llowable	He	eight "H'	or	Span "L	."1	bending	(b).	deflecti	on (d)	
2" x 2" x 0.044"	8'-10"	d	7'-8"	b	6'-9"	Ь	6'-0"	Ъ	5'-5"	b	4'-11"	Tbi	4'-7"	Th

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/heights to "C" and "D" exposure categories see exposure multipliers and example on page 1-ii.

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

CIVIL & STRUCTURAL ENGINEERING

P.O. Box 214368, South Daytona, Fl 32121
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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 1/2"	#10 x 1/2"	#12 x 1/2"	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	Spacing of Screws	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"	The state of the s	0.200			

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

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 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.)

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

CIVIL & STRUCTURAL ENGINEERING

P.O. Box 214368, South Daytona, Fl 32121
Telephone #: (386) 767-4774 Fax #: (386) 767-6556
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^{** (1)} Stitching screw at 16" O.C. max.

Table 1.7

Minimum Size Screen Enclosure Knee Braces and Anchoring Required

Aluminum 6063 T-6

Brace Length*	Extrusion	Anchoring System
0' - 2'-0"	2" x 2" x 0.044"	2" H-Channel With (3) #10 x 1/2" each leg of channel
To 3'-0"		2" H-Channel With (3) #10 x 1/2" each leg of channel
To 6'-0"	2" x 4" x 0.044" x 0.125"	2" H-Channel With (4) #10 x 1/2" each leg of channel

^{*} Knee brace length shall be the horizontal and vertical length @ a 45° angle from the center of the connection to the face of the beam or upright.

- 1. For required knee braces greater than 4'-6" contact engineer for specifications and details.
- Cantilever beam detail shown on page 1-40 shall be used for transom wall to host structure attachment when knee brace length exceeds 6'-0".

Table 1.8 K-Bracing Fastening Schedule

	Number of #10 x 3/4" S.M.S. Required										
Maximum Wall Width =	Corner Post @ Top	Diagonals (K) per End		Corner Post	Plate to Sole Plate						
20'-0"	2	2	4	2	2						
30'-0"	2	2	4	2	2						
40'-0"	3	4	6	2	2						
50'-0"	4	5	8	3	3						
60'-0"	6	7	12	3	3						

Use front wall width when determining number of s.m.s. for the side wall K-bracing.

Use side wall width when determining number of s.m.s. for the front and / or back wall K-bracing.

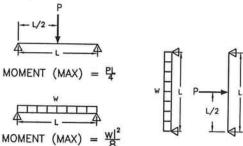
Lawrence E. Bennett, P.E. FL # 16644

CIVIL & STRUCTURAL ENGINEERING

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

Pool Enclosure Collective, LLC P.O. Box 10039, Tampa, FL 33679 Ph. (813)857-9955

Trac Beam Technical Sheet FL7350



2x5	TRAC SEL	F-MATING	BEAM
L-SPAN (ft)	ALLOVABLE LOAD-P (lbs)	ALLOWABLE UNIFORM LOAD-w (plf)	DEFLECTION & ALLOWABLE LOAD (Inches)
10	1037.0	207	0.68
11	970.5	176	0.90
12	903.9	151	1.12
13	837.4	129	1.34
13.67	792.8	116	1.49
14	781.9	112	1.57
15	748.7	100	1.82
16	715.6	89	2.07
17	682.4	80	2.32
18	649.3	72	2.57
19	616.2	65	2.82
20	583.0	58	3.07
21	549.9	52	3.31
55	516.7	47	3,56
23	483.6	42	3.81
24	450.4	38	4.06
25	417.3	33	4.31

2×5	TRAC 1	BEAM (F	ROOF BE	AM SPA	(N)
BEAM TO BEAM SPACING (Ft)	110 mph	120 mph	130 mph	140 mph	150 mph
5′ D.C.	> 25'	> 25'	> 25'	> 25'	24.79
6' D.C.	> 25'	> 25'	> 25'	24.66'	23.86
7′ D.C.	> 25'	> 25'	24.79	23.86'	22.93
8′ □.C.	> 25'	> 25'	24.13'	23.06'	55,

2×5	TRAC	BEAM (COLUMN	HEIGH	(1
BEAM TO BEAM SPACING (ft)	110 mph	120 mph	130 mph	140 mph	150 mph
5′ D.C.	20.81'	19.47'	17.48'	15.47'	13.83
6′ □.C.	19.07'	17.48'	15.07'	13.57'	12.78
7′ D.C.	17.34	15.48'	13.57'	12.65'	11.74
8' D.C.	15.61′	13.83'	12.78'	11.73'	10.69

2×7	TRAC SELI	F-MATING	BEAM
L-SPAN (ft)	ALLOWABLE LOAD-P (lbs)	ALLOWABLE UNIFORM LOAD-w (plf)	DFLECTION @ ALLOWABLE LOAD (Inches)
10	1390.9	278	0.41
11	1332.9	242	0.54
12	1274.9	212	0.67
13	1216.9	187	0.81
14	1158.9	166	0.94
15	1100.9	147	1.07
16	1042.9	130	1.21
17	984.9	116	1.34
18	927.0	103	1.47
19	869.0	91	1.60
20	811.0	81	1.74
21	753.0	72	1.87
55	695.0	63	2.00
23	637.0	55	2.13
24	579.0	48	2.27
25	521.1	42	2.40
26	511.6	39	2.65
27	502.1	37	2.90
28	492.6	35	3.15
29	483.1	33	3.40
30	473.6	32	3,65
31	464.1	30	3.90
32	454.6	28	4.15
33	445.2	27	4,40
34	435.7	26	4.65
35	426.2	24	4.90
36	416.7	23	5.15
37	407.2	55	5.40
38	397.7	21	5,65
39	388.2	20	5.90
40	378.7	19	6.15

2×7	TRAC I	BEAM (F	ROOF BE	AM SPA	CNA
BEAM TO BEAM SPACING (Ft)	110 mph	120 nph	130 mph	140 nph	150 nph
5' D.C.	39.32'	39.32	36.03'	32.73′	29,45
6′ □.C.	36.68'	36.68	32.73'	28.8′	24.99
7' D.C.	34.05'	34.05	29.45'	24.98'	24.55
8' D.C.	31,42'	31.42	26.16*	24.61	24.11

2×7	TRAC	BEAM (COLUMN	HEIGH.	(1
BEAM TO BEAM SPACING (Ft)	110 nph	120 nph	130 mph	140 mph	150 mph
5′ D.C.	23.54	22.92'	21.98'	21.03'	20.09
6′ □.C.	22.72	21.97'	20.84	19.71'	18.58
7′ D.C.	21.91'	21.03′	19.70′	18.39'	17.08
8' D.C.	21.10′	20.09'	18.58'	17.08'	15.58

General Notes:

1. Refer to Florida Product Approval #FL7350 for project specific requirements to be used by design professional.

2. Drawings are illustrative purposes only.

3. Loads in tables are allowable working loads and may be used without any additional reductions.

4. Allowable point loads and deflections are converted to allowable uniform loads

and deflections using analytic and comparitive analysis.

5. Allowable spans tables are based on 2004 Florida Building Code with 2006 Updates. Wind loads are based on Chapter 20 and Table 2004.4.

6. Design professional shall provide site specific drawings for each project utilizing this product information.

7. Maximum allowable deflections limits of L/60 shall be considered by design professional. L/80 in HVHZ.

12.78	13,57	15.07	17.48	19.07	P. L.C.
13.83	15.47	17.48'	-	-	D.C.
150 mph	140 ngh	\$ 28	120 751	4	SEACTIVE (P.F)
7	HEIGHT	BEAM (COLUMN HEIGHT)	BEAM (C	TRAC	2x5
55	23.06	24.13	> 25'	> 25'	8, D.C.
22,93	23,86'	24.79	> 25'	> 25'	
23.86	24.66'	> 25'	> 25'	> 25'	6' a.c.
24.79	> 25'	> 25'	> 25'	> 25'	5, D.C.
150 aph	140 mph	130 aph	120 mgh	10 mg/s	SPACING (Ft)
1	-	-	באים ויייום בריווי מישום בריווי טו חואי		-

	2×7	TRAC 1	TRAC BEAM (ROOF	100	BEAM SPAND	S
SPACE .	NG SFED	10 405	150	130 mph	140 993	150 mph
ú	O.C.	39.32′	39.32	36.03	32.73	29.45
6′	D.C.	36.68'	36.68	32,73'	28.8'	24.99
7'	D.C.	34,05'	34.05	29.45'	24.98'	24.55
ø	D.C.	31,42'	31.42	26.16'	24.61	24.11

2×8 TRAC	C BEAM	CLEAR SPAN	SPAN	(FLAT
SEACING (PD)	3	126 aby	3	
5' D.C.	40.0'	40.0′	40.0	
6' D.C.	40.0*	40.0'	40.0	
7' D.C.	40.0	40.0'	38.0′	
8, 0'C'	40.0	38.0'	36.0'	

ž –	SXZ	TRAC	TRAC BEAM COLUMN HEIGHT	COLUMN	.	HDISH
PACING (PE)	¢\$	150 454	150 AS	4	_	140 mgh
D.C.	٤,	20.81	19.47	17.48'	+=	15.47
	D.C.	19.07	17.48'	15.07		13,57
	D.C.	17.34'	15.48'	13.57'	5	12.65′
	8' D.C.	15.61'	13,83′	12.78'	=	11.73

General Notes:

	2×7	TRAC	BEAM (2×7 TRAC BEAM (COLUMN	CLHDIGH	J
SEVN 10	SPAN SPAN	III nph	120 PS	130 aph	76 97 24 074	150 nph
ς, [I.C.	23.54	22,92'	21.98′	51.03	20.09
6' [G.C.	22,72	21.97	20,84	19.71	18.58
7' [2.0	51.91	21.03'	19.70'	18.39	17.08
8' D.C.	3	21.10	,60.02	18.58′	17.08'	15.58

2×8 TRAC	RAC BE	BEAM SPAN (MANSARD ROOF	N CMAN	SARD RI	95
SPACING CPU	1 0 2 0	120 404	30 3	Ide sph	150 rph
5' Q.C.	52.0	52.0′	52.0'	52.0′	47.0
6' D.C.	52,01	52.0′	52.0'	50.0	46.0
7' D.C.	52.0'	52.0'	52.0	47.5'	44.8
8' D.C.	52.0'	50.0'	47.0'	45.0	42.8

8×2	TRAC	SPAN (Ex8 TRAC SPAN (COLUMN HEIGHT)	HEIGH	כ
SPACING GFO	110	120 mg/s	130 -054	4Qm 0H	\$. 150
5' D.C.	32.5	30.0	28.9	27.7'	26.3′
6' D.C.	29.5'	28.7'	27.6	26.3'	25.0
7' O.C.	28.7	27.8'	26.7	24.9'	23,5'
8' D.C.	27.8'	26.5'	25.2′	23.4'	31.8

Refer to Florida Product Approval #FL7350 & #FL9328 for project specific requirements to be used by design professional.
 Drawings are illustrative purposes only.
 Tables developed from loads in FL9328 tobles which are allowable working loads and may be used without any additional reductions. Spans are based on ten feet wall height.
 Allowable point loads and deflections are converted to allowable uniform loads

and deflections using analytic and comparitive analysis.

Allowable spans tables are based on 2004 Florida Building Code with 2006 Updates. Wind loads are based on Chapter 20 and Table 2004.4.

Consult a licensed design professional for use of this product information.

Maximum allowable deflections limits of L/60 shall be considered by design professional. L/80 in HVHZ.

	8xS	TRAC	SPAN C	2x8 TRAC SPAN (COLUMN HEIGHT)	HEIGHT	J
SA SA	SPACING (FE)	40 011	120 mg/s	₹ 130 ⊀	140 mgh	150 251
Ωĺ	D,C,	32.5	30.0	28.9'	27.7'	26.3′
o,	D.C.	29.5'	28.7'	27.6	26.3'	25.0
7	D.C.	28.7	27.8'	26.7"	24.9'	23.5'
φ	8' D.C.	27.8'	26.5'	25.2	23.4	,8.TZ

Drawing No. - 070822 SHEET SOF 5

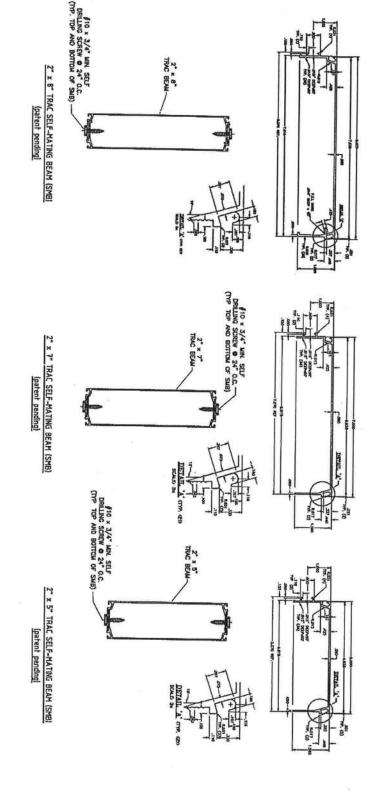
BUILDING STRENGTH WITH INTEGRITY P.O. Box 10039 Tampa, FL 33879 Tat: (813) 874-5900 Fax: (813) 874-6669

Pool Enclosure Collective, LLC

Manufactures Recommended Trac Beam TM Standard Installation Details For Screen Enclosures (FL# 7350 & 9328)



Pool Enclosure Collective, LLC Trac Beam (FL State Product Approval #7350)



Drawing No. - 070822

STRENGTH
WITH
INTEGRITY
PO Bet 10039
Tet (813) 87445600
Fac (813) 87445600

Pool Enclosure Collective, LLC

Manufactures Recommended Trac Beam [™]
Standard Installation Details
For Screen Enclosures (FL# 7350 & 9328)



NOTICE OF COMMENCEMENT

PERMIT NUMBER:
STATE OF: FLORIDA COUNTY OF: COlumbia CITY OF:
THE UNDERSIGNED HEREBY gives notice that improvement(s) will be made to certain real property, and in accordance
with Chapter 713, Florida Statutes, the following information is provided in this Notice of Commencement.
DESCRIPTION OF PROPERTY
LOT:BLOCK:SECTION: 33 TOWNSHIP: 15 RANGE: 17
TAX PARCEL NUMBER: 33 - 15 - 17 - 04635
SUBDIVISION:PLATBOOK: MAP PAGE:
SUBDIVISION:PLATBOOK: MAP PAGE: STREET ADDRESS: LS9 NE Cemetery Loop GENERAL DESCRIPTION OF IMPROVEMENTATION
SENTENCE DESCRIPTION OF IMPROVEMENTS
TO CONSTRUCT: Screen Enclosure
OWNER INFORMATION
OWNER NAME: Kent Irene Lourcey
ADDRESS: 457 NE Cemetery 1000 PHONE NUMBER 38/2-750 BIET
CITY: Lake City STATE: Flq. ZIP CODE: 32055
*
INTEREST IN PROPERTY:
FEE SIMPLE TITLEHOLDER NAME: Inst 200912003639 Data of the same instance of the same i
22 Similar Cason, Columbia County Page 1 of 1 B 1168 P 15
(if other than owner)
CONTRACTOR NAME: Vince Richardson
ADDRESS: 192 6 12 ADDRESS 193
ADDRESS: 1092 S.W Arlington Blvd. PHONE NUMBER: 386-755-5779
PONDING CONDAINS
ADDRESS:PHONE NUMBER:
STATE:ZIP CODE:
LENDER NAME:
CITY: PHONE NUMBER: STATE: ZIP CODE:
STATE:ZIP CODE:
Persons within the State of Florida designated by C
Persons within the State of Florida designated by Owner upon whom notices or other documents may be served as provided by Section 713.13(1)(a) 7., Florida Statutes:
,
NAME: ADDRESS: n addition to himself. Owner designates
on a colgrates
to receive a copy of Lienor's Notice as provided in Section 713.13(1)(b), Florida Statutes.
expiration date is one (1) year from date of recording unless a different date is specified.
IGNATURE OF OWNER: Kin Journey
WORN to and subscribed before me this 20 day of 50 2009, A.D. 2004:
otary Public: Sweet Delleton (Columbia County)
ly commission Expires:
ARY PUR. CANDRA H TILLOTSON
MY COMMISSION # DD 629300
Bonded Thru Budget Notary Services



COLUMBIA COUNTY, FLORIDA

Department of Building and Zoning Inspection
This Certificate of Occupancy is issued to the below named permit holder for the building

and premises at the below named location, and certifies that the work has been completed in accordance with the Columbia County Building Code.

Parcel Number 33-1S-17-04635-000

Use Classification SCREEN ENCLOSURE

Permit Holder J. VINCE RICHARDSON

Owner of Building KENT & IRENE LOURCEY

Date: 03/24/2009

Location:

659 NE CEMETARY LOOP, LAKE CITY, FL

Fire: 0.00

Building permit No. 000027670

Waste:

Total:

0.00

Building Inspector

POST IN A CONSPICUOUS PLACE (Business Places Only)