	ty Building Permit Posted on Premises During Construction 000027792
APPLICANT J. VINCE RICHARDSON	PHONE 386.755.5779
ADDRESS 692 SW ARLINGTON BLVD	LAKE CITY FL 32025
OWNER MICHELLE BOATWRIGHT	PHONE 386-965-2290
ADDRESS 146 NW HARRIS LAKE DRIVE	LAKE CITY FL 32055
CONTRACTOR J. VINCE RICHARDSON	PHONE 352-472-9101
-	R, R FAIRWAY DR, R NW GRET LN, R NW HARRIS
LAKE DRIVE, 6TH ON	
TYPE DEVELOPMENT SCREEN ENCLOSURE	ESTIMATED COST OF CONSTRUCTION 8100.00
HEATED FLOOR AREA TOT	AL AREA HEIGHT 8.00 STORIES
FOUNDATION WALLS	ROOF PITCH FLOOR
LAND USE & ZONING RSF-1	MAX. HEIGHT
Minimum Set Back Requirments: STREET-FRONT	25.00 REAR 15.00 SIDE 10.00
NO. EX.D.U. 1 FLOOD ZONE	DEVELOPMENT PERMIT NO.
PARCEL ID 35-3S-16-02309-047 SUBI	DIVISION FAIRWAY VIEW
LOT 47 BLOCK PHASE U	NIT 2 TOTAL ACRES
110	Vine Richardson
Culvert Permit No. Culvert Waiver Contractor's Lice	
EXISTING X-09-119	FS HD N
Driveway Connection Septic Tank Number LU	& Zoning checked by Approved for Issuance New Resident
COMMENTS: NOC ON FILE.	
COMMENTS: NOC ON FILE.	
COMMENTS: NOC ON FILE.	Check # or Cash 2154
FOR BUILDING &	ZONING DEPARTMENT ONLY (footer/Slab)
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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.

51 X-09-119 IN BOX

Columbia County Building Permit Application

For Office Use Only Application # 0965-83 Date Received 5/1 - 7
Date Received 9/1 By JW Permit # 27792
Date / O Plans Examiner //
Comments Letter 4. Engineer Zoning RSF-Z Land Use Plan Map Category RLD
ANOC INFLUENCE DE LA PROPERTIE
ONOC MEH O Deed or PA Site Plan
Name Authorized Person Signing Person
Address (194 5.0. Activition alive) & 01 - Finance Dob 155-5119
0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Phone 38/2 9/25 - 2290
Address 1/95 S ::) Act 1 - 01 1 - 01 Phone 386 155-5779
Fee Simple Owner Name & Address
To simple Owner Name & Address
Bonding Co. Name & Address
Architect/Engineer Name & Address Lawrence E. Bennett
Mortgage Lenders Name & Address
Circle the correct power company FL Power & Light Clay Elec Suwannee Valley Elec Progressive English District Control of the Control of
Property ID Number 35-35-16-02309-047 HX Estimated Cost of Construction 8,100,00
Subdivision Name
Driving Directions 90 West to Commerce Blvd go North. Turn right
on Egret then right on Harris Lake Drive. 6th OHame sicht
Type of Construction Screen Enclosure Number of Existing Dwellings on Property 1
Do you need a - Culvert Permit or Cultural W.
Total Building Height & Number of Stories
Application is beach a made to the Custon
Application is hereby made to obtain a permit to do work and installations as indicated. I certify that no work or all laws regulating construction in this jurisdiction.
and the etandards
OWNERS AFFIDAVIT: I hereby certify that all the foregoing information is accurate and all work will be done in
WARNING TO OWNER, YOUR TANK
TWICE FOR IMPROVEMENTS TO YOUR PROPERTY. IF YOU INTEND TO OBTAIN FINANCING, CONSULT WITH YOU LENDER OR ATTORNEY BEFORE RECORDING YOUR NOTICE OF COMMENCEMENT
LENDER OR ATTORNEY BEFORE RECORDING YOUR NOTICE OF COMMENCEMENT.
Owner Builder or Authorized Boross to No.
Contractor Signature
STATE OF FLORIDA (1)(1)(1)(1)
NOTARY STANDING NOTARY STANDIN
Chils day of 2001. EXPIRES: January 31, 2011
or Produced Identification Notary Signature
(Revised Sept. 20

TIN 1861 ACCC ... 1 ... 1 -1

Columbia County Property

Appraiser . Columbia fla . Co DB Last Updated: 4/27/2009

2009 Preliminary Values

Tax Record

Property Card

Interactive GIS Map

Search Result: 1 of 1

Print

Parcel: 35-3S-16-02309-047 HX

Owner & Property Info

Owner's Name	BOATWRIGHT MICHELLE LOUISE						
Site Address	HARRIS LAKE	HARRIS LAKE					
Mailing Address	146 NW HARRIS LAKE DR LAKE CITY, FL 32055						
Use Desc. (code)	SINGLE FAM (000100)						
Neighborhood	026316.03 Tax District 2						
UD Codes	мкта06	Market Area	06				
Total Land Area	0.000 ACRES						
Description	LOT 47 FAIRWAY VIEW S/D UNIT I ORB 426-222, 952-1724. DC GRACE GOODALL 1056-1898. WD 1071-794.						

GIS Aerial



Property & Assessment Values

Mkt Land Value	cnt: (1)	\$37,170.00
Ag Land Value	cnt: (0)	\$0.00
Building Value	cnt: (1)	\$151,959.00
XFOB Value	cnt: (1)	\$3,648.00
Total Appraised Value		\$192,777.00

Just Value		\$192,777.00			
Class Value		\$0.00			
Assessed Value		\$192,777.00			
Exemptions	(code: HX)	\$50,000.00			
Total Taxable Value	County: \$142,777.00 City: \$142,777.00 Other: \$142,777.00 School: \$167,777.00				

Sales History

Sale Date	Book/Page	Inst. Type	Sale Vimp	Sale Qual	Sale RCode	Sale Price
12/30/2005	1071/794	WD	I	Q		\$252,000.00
5/1/2002	952/1724	WD	V	Q		\$35,000.00

Building Characteristics

Bldg Item	Bldg Desc	Year Blt	Ext. Walls	Heated S.F.	Actual S.F.	Bldg Value			
1	SINGLE FAM (000100)	2002	Common BRK (19)	1987	2638	\$151,959.00			
	Note: All S.F. calculations are based on exterior building dimensions.								

Extra Features & Out Buildings

Code	Desc	Year Blt	Value	Units	Dims	Condition (% Good)
0166	CONC,PAVMT	2002	\$3,648.00	0001824.000	0 x 0 x 0	(000.00)

Land Breakdown

Lnd Code	Desc	Units	Adjustments	Eff Rate	Lnd Value
000100	SFR (MKT)	0000001.000 LT - (0000000.000AC)	1.00/1.00/1.40/1.00	\$37,170.00	\$37,170.00

Columbia County Property Appraiser

DB Last Updated: 4/27/2009

ZONING SITE PLAN

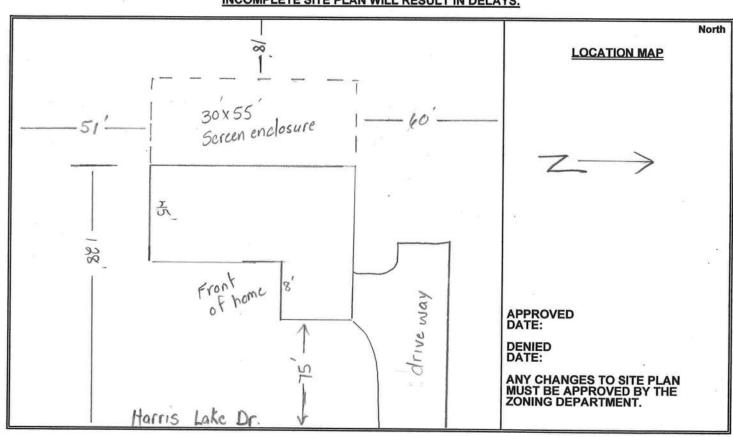
NO.	
140.	

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.



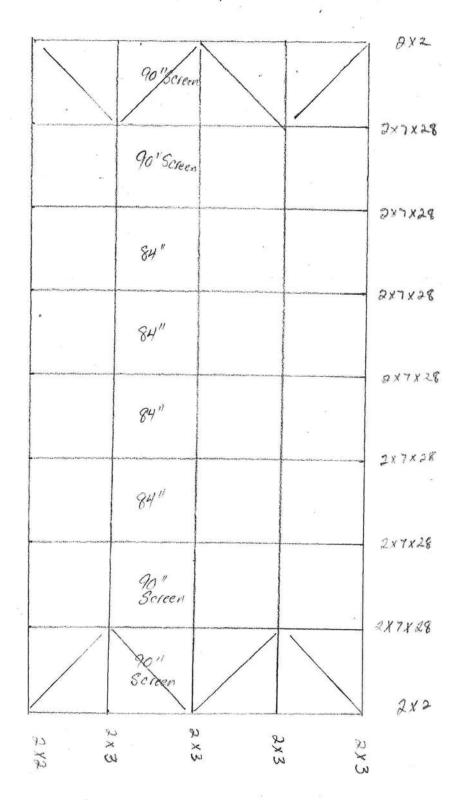
OFFICE USE ONLY

				-		-		
	561		SEC_		TWP	RGE	ZONING MAP	
PGE _	zo	NING CLASS.		TAZ				
_ FLOOD ZO	NE	MAP NO. E	LEV		NOTES: _			
ETBACKS:	FRONT .		_ REA	R _		SIDE_	SIDE	
	_ FLOOD ZO	_ FLOOD ZONE	_FLOOD ZONE MAP NO. E	PGE ZONING CLASS _ FLOOD ZONE MAP NO. ELEV	PGE ZONING CLASS TAZ _ FLOOD ZONE MAP NO. ELEV	PGE ZONING CLASS. TAZ FLOOD ZONE MAP NO. ELEV. NOTES:	PGE ZONING CLASS. TAZ FLOOD ZONE MAP NO. ELEV. NOTES:	PGE ZONING CLASS. TAZ FLOOD ZONE MAP NO. ELEV. NOTES:

P-1204 Rev 07/08/03

30' Roof Span 28'
minus y-bracing 22'



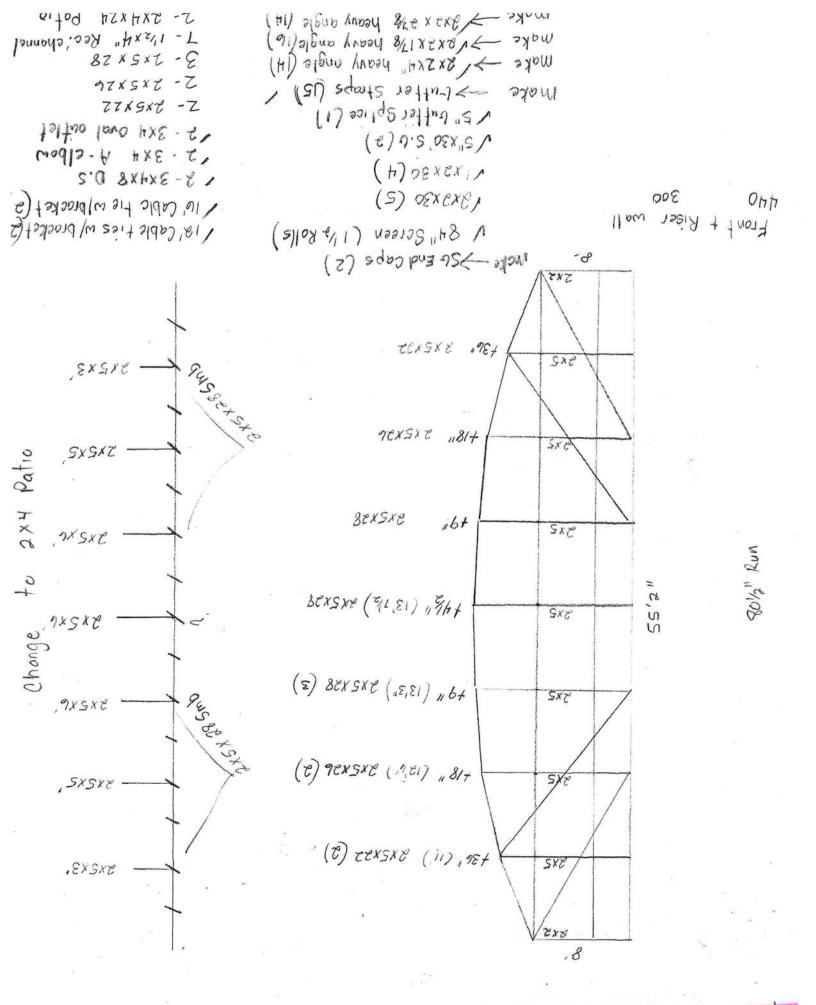


Roof 1568 S.Ft

2x7x28 (14) 12x2x30 (4) 12x3x30 (8) 190"Screen (116') 184" Screen (116')

*ke- 1 H. channel 28 @ 4 1/4" - 7 10'

Roof Section



Front and Riser Wall Section

1/2' Cable ties w/ brackets (2) 1 1x2x30 (5)

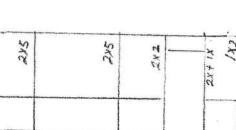
13x2x30 (4)

3×5×24

2x2x 278 heavy angle (12)

/17' 2-bar (3) / Door Frames (3) / Closer K. Hs (3) / Bug sweeps (3) / hinges (4)

184 Screen



301

SXX

HU 55 + 1 ×

SXC

Side Wall

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 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 Walls	
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	19	
1401 & 2	23	6	21	15	8	29	23	
150	26	7	24	18	9	33	27	

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					

Note

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"

	Expos	sure "B" to '	'C"	Exposure "B" to "D"							
Mean Roof Height*	Load Conversion	Span M	Multiplier	Load Conversion	Span I	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	0.85						

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

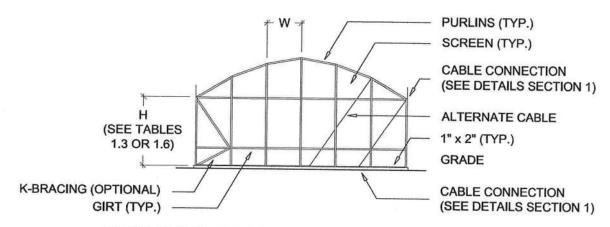
Values are from ASCE 7-02

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"):

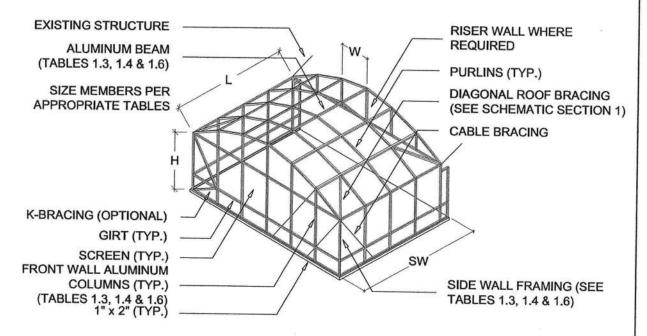
If max span found from span tables for Exposure "B" = 31'-11" = 31.92' and the mean roof height of the structure is 0-15' then multiply span by 0.91 the span for Exposure "C" is 31.92' * 0.91 = 29.05' = 29'-1"

SECTION 1



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

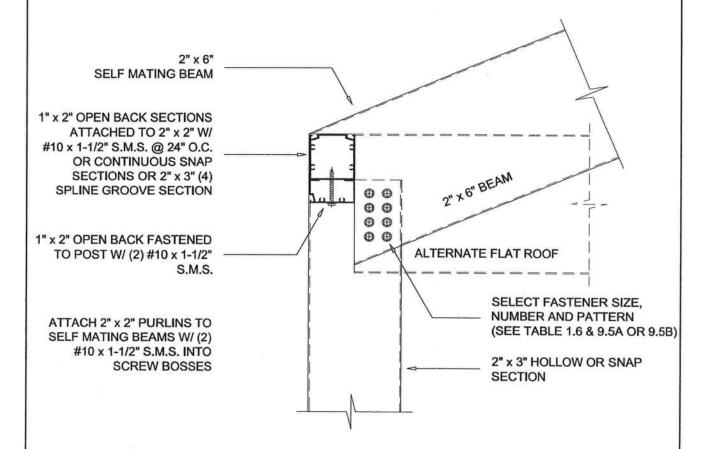
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PAGE

NOT TO BE REPRODUCED IN WHOLE OR IN PART WITHOUT THE WRITTEN PERMISSION OF LAWRENCE E. BENNETT, P.E.

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

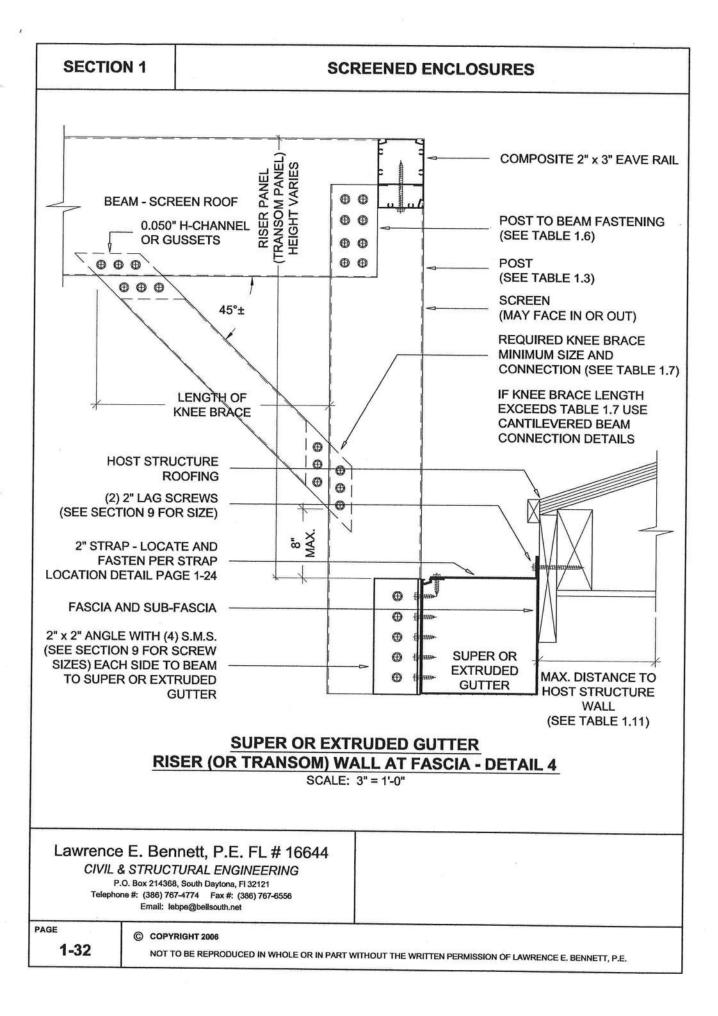
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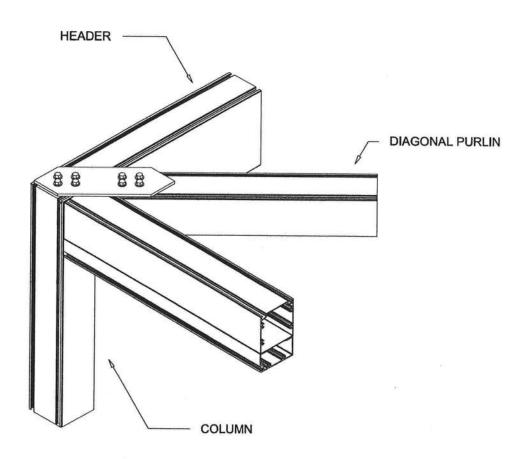
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WIND BRACE CONNECTION DETAIL

SCALE: 3" = 1'-0"

NOTES:

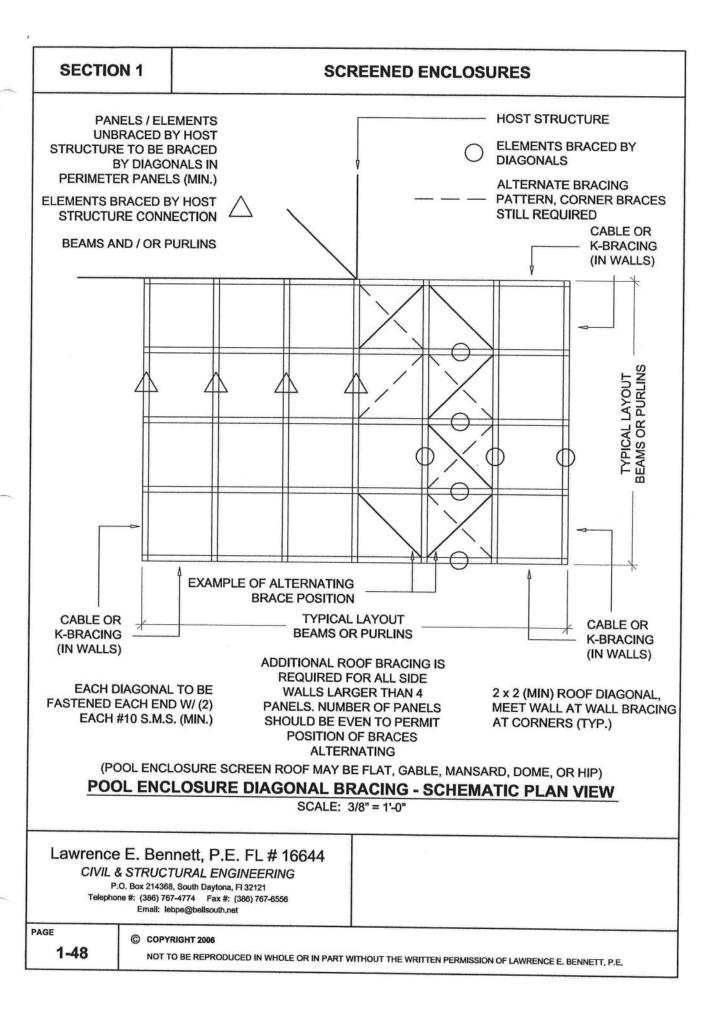
- 1. Wind bracing shall be provided at each side wall panel when enclosure projects more than three panels from host structure. Structures of four or more panels shall be spaced for even number of panels for opposing wind bracing.
- 2. Cut brace parts with min. 12" lap of larger and smaller brace.
-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

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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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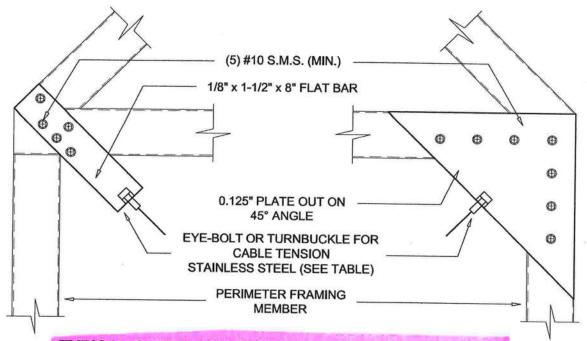
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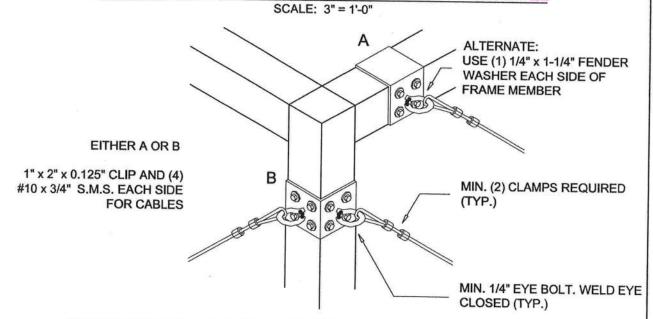
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SECTION 1



TYPICAL CABLE CONNECTIONS AT CORNER - DETAIL 1



ALTERNATE TOP CORNER OF CABLE CONNECTION - DETAIL 1A

SCALE: 3" = 1'-0"

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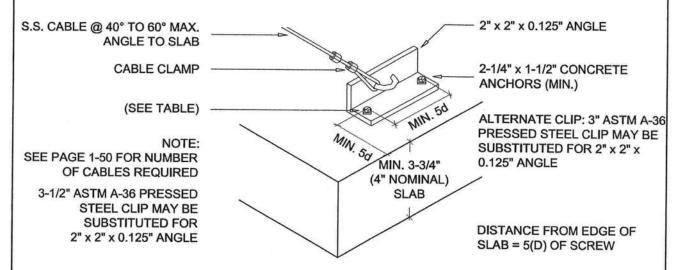
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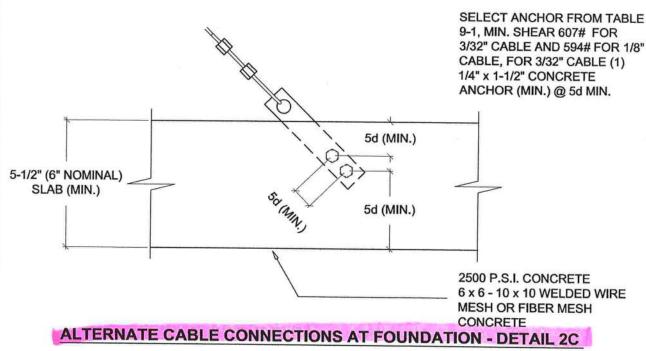
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SECTION 1



ALTERNATE CABLE CONNECTION AT SLAB DETAIL - DETAIL 2B

SCALE: 3" = 1'-0"



SCALE: 3" = 1'-0"

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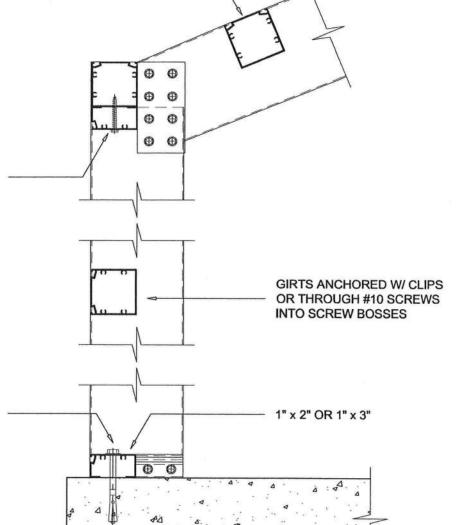
SECTION 1

SCREENED ENCLOSURES

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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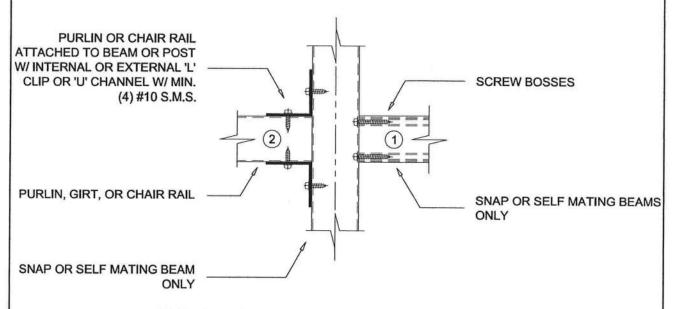
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SECTION 1



PURLIN TO BEAM OR GIRT TO POST DETAIL

SCALE: 3" = 1'-0"

- TOR 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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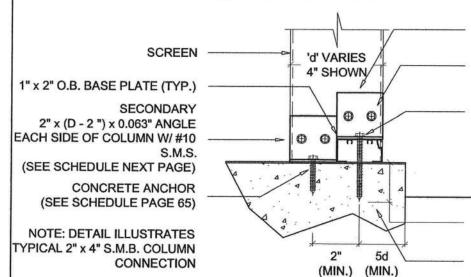
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SECTION 1

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"

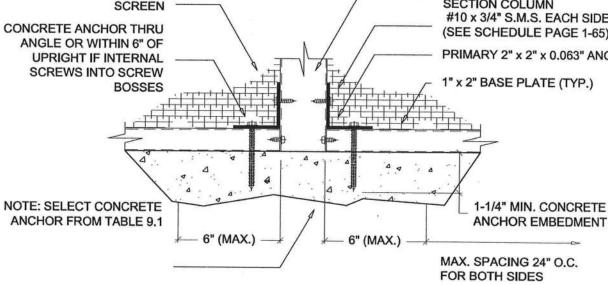
GRADE

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

1" x 2" BASE PLATE (TYP.)



SIDE VIEW

FRONT VIEW

2" x 4" OR LARGER SELF MATING OR SNAP SECTION POST TO DECK DETAILS

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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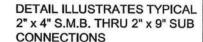
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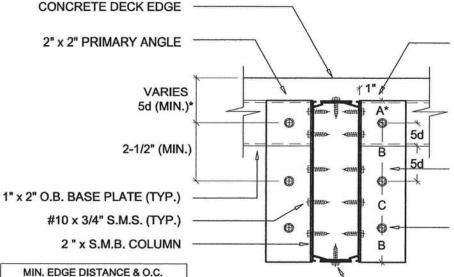
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SCALE: 3" = 1'-0"

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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)

ANCHOR SPACING **ANCHOR** ALUM. WOOD CONC. 2-1/2d 4d 5d 1/4" 5/8" 1-1/4" 25/32" 1-1/4" 1-9/16" 5/16" 15/16" 1-1/2" 1-7/8" 3/8"

TOP VIEW POST TO DECK DETAIL

SCALE: 3" = 1'-0"

Primary and Secondary Anchor Schedule

Column	Sec	ondar	y Angle					Maxi	mum Number and Spacing Anchors										
Size	Angle	Numb	er of A	nchors		1.	/4"				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 ^u	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"	170	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"	-			
2 x 10	8"	8	6	6	8	1"	5/8"	2"	6	1"	13/16"	3-3/16"	6	1"	3/4"	3-1/4"			

Example:

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 30//2 x 6' 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:

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.

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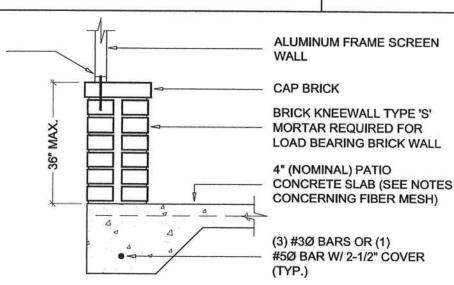
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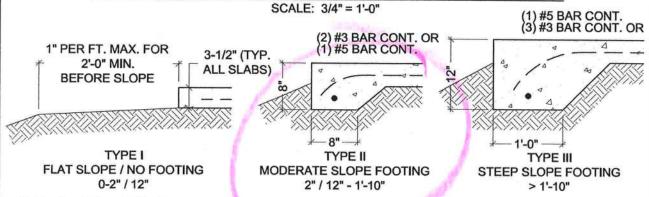
SECTION 1

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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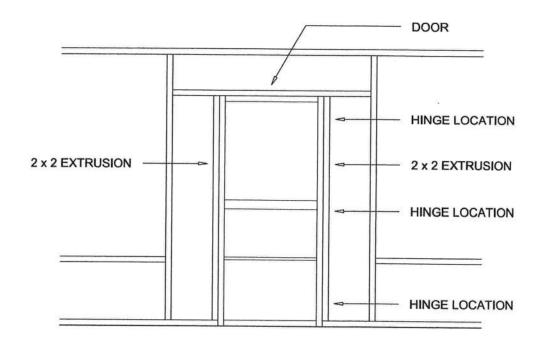
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NOTES:

- 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 x 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.

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Table 1.1 120 Allowable Spans for Primary Screen Roof Frame Members
Aluminum Alloy 6063 T-6

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

	Tributary Load Width 'W' = Beam Spacing														
Hollow Sections	3'-0	11	4'-0'	4'-0"		5'-0"		6'-0"		•	8'-0	"	9'-0'		
	Allo	wabl	e Span 'l	L' /	Point Lo	ad (P) or Unif	orm l	oad (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'-6"	Pb	7'-6"	Pb	7'-6"	Pb	7'-6"	Pb	7'-6"	Pb	7'-6"	Pb	7'-6"	Pb	
2" x 3" x 0.045"	7'-7"	Pb	7'-7"	Pb	7'-7"	Pb	7'-7"	Pb	7'-7"	Pb	7'-7"	Pb	7'-7"	Pb	
2" x 4" x 0.050"	9'-1"	Pb	9'-1"	Pb	9'-1"	Pb	9'-1"	Pb	9'-1"	Pb	9'-1"	Pb	9'-1"	Pb	
2" x 5" x 0.062"	20'-5"	Pb	20'-5"	Pb	20'-5"	Pb	20'-4"	Ud	19'-4"	Ud	18'-6"	Ud	17'-9"	Ud	

				7	rlbutary	Load	Width "	W' =	Beam Sp	acIn	g			
Self Mating Sections	3'-0'	•	4'-0'		5'-0"		6'-0"		7'-0"		8'-0"		9'-0"	
	Allo	wabl	e Span 'I	. 1	Point Lo	ad (P) or Unif	orm	Load (U),	ben	ding (b),	defle	ection (d)	
2" x 4" x 0.044 x 0.100"	11'-8"	Pd	11'-8"	Pd	11'-8"	Pd	11'-8"	Pd	11'-8"	Pd	11'-8"	Pd	11'-8"	Pd
2" x 5" x 0.050" x 0.100"	16'-1"	Pd	16'-1"	Pd	16'-1"	Pd	16'-1"	Pd	16'-1"	Pd	15'-9"	Ud	15'-1"	Ud
2" x 6" x 0.050" x 0.120"	20'-4"	Pd	20'-4"	Pd	20'-4"	Pd	20'-3"	Ud	19'-3"	Ud	18'-5"	Ud	17'-8"	Ud
2" x 7" x 0.055" x 0.120"	24'-9"	Pd	24'-9"	Pd	24'-6"	Ud	23'-1"	Ud	21'-11"	Ud	20'-11"	Ud	20'-2"	Ud
2" x 8" x 0.072" x 0.224"	34'-2"	Pd	32'-9"	Ud	30'-5"	Ud	28'-7"	Ud	27'-2"	Ud	25'-11"	Ud	24'-11"	Ud
2" x 9" x 0.072" x 0.224"	39'-3"	Pd	35'-11"	Ud	33'-4"	Ud	31'-5"	Ud	29'-10"	Ud	28'-6"	Ud	27'-5"	Ud
2" x 9" x 0.082" x 0.310"	42'-5"	Ud	38'-7"	Ud	35'-10"	Ud	33'-8"	Ud	31'-11"	Ud	30'-7"	Ud	29'-5"	Ud
2" x 10" x 0.092" x 0.369"	49'-3"	Ud	44'-9"	Ud	41'-7"	Ud	39'-1"	Ud	37'-2"	Ud	35'-6"	Ud	34'-2"	Ud

	Tributary Load Width "W" = Beam Spacing														
Snap Sections	3'-0	"	4'-0	"	5'-0'	•	6'-0		7'-0'	•	8'-0	"	9'-0		
	Allo	wabl	e Span '	L' /	Point Lo	ad (P	or Unif	orm l	oad (U)	ben	ding (b),	defle	ction (d)	
2" x 2" x 0.044"	4'-10"	Pd	4'-10"	Pd	4'-10"	Pd	4'-10"	Pd	4'-10"	Pd	4'-10"	Pd	4'-10"	Pd	
2" x 3" x 0.045"	7'-6"	Pd	7'-6"	Pd	7'-6"	Pd	7'-6"	Pd	7'-6"	Pd	7'-6"	Pd	7'-6"	Pd	
2" x 4" x 0.045"	10'-8"	Pd	10'-8"	Pd	10'-8"	Pd	10'-8"	Pd	10'-8"	Pd	10'-8"	Pd	10'-8"	Pd	
2" x 6" x 0,062"	22'-2"	Pd	22'-2"	Pd	22'-2"	Pd	21'-5"	Ud	20'-5"	Ud	19'-6"	Ud	18'-9"	Ud	
2" x 7" x 0.062"	26'-8"	Pd	26'-8"	Pd	25'-9"	Ud	24'-3"	Ud	23'-0"	Ud	22'-0"	Ud	21'-2"	Ud	

Note

- 1. Thicknesses shown are "nominal" industry standard tolerances. No wall thickness shall be less than 0.040",
- 2. The structures designed using this section shall be limited to a maximum combined span and upright height of 50' and a maximum upright height of 16'. Structures larger than these limits shall have site specific engineering.
- 3. Span is measured from center of beam and upright connection to fascia or wall connection.
- 4. Above spans do not include length of knee brace. Add horizontal distance from upright to center of brace to beam connection to the above spans for total beam spans.
- 5. Tables are based on a maximum wall height of 16' including a 4' max. mansard or gable. Other conditions may offer better spans w/ enclosure site specific engineering.
- Spans may be interpolated.
- 7. To convert spans to "C" and "D" exposure categories see exposure multipliers and example on page 1-ii. Example: Max. 'L' for 2" x 4" x 0.050" hollow section with "W" = 5'-0" = 9'-1"

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Table 1.3 110 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														
Hollow Sections	3'-0"		4'-0"		5'-0"		6'-0"		7'-0"	-	8'-0"		9'-0'	•	
			Allov	vab	le Heigh	t "F	"/ benc	ling	(b), def	lect	ion (d)				
2" x 2" x 0.044"	7'-5"	d	6'-5"	b	5'-8"	b	5'-1"	Ь	4'-8"	Ь	4'-3"	Ь	3'-11"	Tb	
2" x 2" x 0.050"	7'-10"	d	7'-1"	b	6'-3"	Ь	5'-8"	Ь	5'-2"	Ь	4'-9"	b	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	
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"	b	7'-9"	ь	7'-1"	ь	6'-7"	ь	6'-1"	Ь	
2" x 5" x 0.062"	17'-3"	b	14'-10"	b	13'-2"	b	11'-11"	ь	11'-0"	Ь	10'-3"	ь	9'-7"	b	

				Trib	utary Lo	ad \	Width 'W	/' =	Upright:	Spa	cing			
Self Mating Sections	3'-0"	•	4'-0"	•	5'-0'		6'-0"	•	7'-0"		8'-0"		9'-0"	
		11100	Allo	wab	le Heigh	t "H	"/ bend	ding	(b), def	lect	lon (d)		U/L	
2" x 4" x 0.044 x 0.100"	11'-11"	d	10'-10"	d	10'-0"	d	9'-5"	b	8'-8"	Ь	8'-0"	b	7'-6"	Tb
2" x 5" x 0.050" x 0.100"	14'-9"	d	13'-5"	d	12'-5"	d	11'-7"	b	10'-8"	Ь	9'-11"	Ь	9'-4"	Ь
2" x 6" x 0.050" x 0.120"	17'-3"	d	15'-8"	d	14'-4"	b	13'-1"	b	12'-0"	Ь	11'-3"	ь	10'-6"	ь
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"	b	11'-5"	Ь
2" x 8" x 0.072" x 0.224"	24'-4"	d	22'-1"	d	20'-6"	d	19'-4"	d	18'-4"	d	17'-6"	d	16'-10"	d
2" x 9" x 0.072" x 0.224"	26'-8"	d	24'-3"	d	22'-6"	d	21'-2"	d	20'-1"	d	19'-3"	d	18'-2"	Ь
2" x 9" x 0.082" x 0.310"	28'-8"	d	26'-0"	d	24'-2"	d	22'-9"	d	21'-7"	d	20'-8"	d	19'-10"	d
2" x 10" x 0.092" x 0.369"	33'-3"	d	30'-3"	d	28'-1"	d	26'-5"	d	25'-1"	d	23'-11"	d	23'-1"	d

	Tributary Load Width 'W'= Upright Spacing														
Snap Sections	3'-0"		4'-0"	•	5'-0"		6'-0"		7'-0"		8'-0"		9'-0'		
SHATEVE HOUSE HAD BEEN AND A			Allo	wab	le Helgh	t "H	"/ bend	ling	(b), def	lect	ion (d)			_	
2" x 2" x 0.044"	6'-7"	d	5'-11"	d	5'-7"	d	5'-3"	d	4'-10"	Ъ	4'-5"	Ь	4'-1"	Tb	
2" x 3" x 0.045"	8'-10"	d	8'-1"	d	7'-6"	d	6'-11"	Ь	6'-3"	Ь	5'-9"	ь	5'-3"	b	
2" x 4" x 0.045"	11'-2"	d	10'-2"	d	9'-2"	Ь	8'-2"	ь	7'-5"	Ь	6'-9"	b	6'-2"	b	
2" x 6" x 0.062"	18'-3"	d	16'-7"	d	15'-5"	d	14'-6"	d	13'-9"	d	13'-2"	d	12'-8"	1	
2" x 7" x 0.062"	20'-7"	d	18'-9"	d	17'-5"	d	16'-4"	d		d	14'-10"	ď	100000000000000000000000000000000000000	-	

Notes:

- 1. Thicknesses shown are "nominal" industry standard tolerances. No wall thickness shall be less than 0.040".
- 2. Using screen panel width 'W' select upright length 'H'.
- 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"
- 8. Spans may be interpolated.
- 9. To convert spans to "C" and "D" exposure categories see exposure multipliers and example on page 1-li.

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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

	Tributary Load Width 'W' = Upright Spacing													
Hollow Sections	3'-0"		4'-0"		5'-0"		6'-0"		7'-0"		8'-0"	8	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"	Ь	5'-1"	b	4'-8"	b	4'-3"	Ъ	3'-11"	Tb
2" x 2" x 0.050"	7'-10"	d	7'-1"	b	6'-3"	b	5'-8"	ь	5'-2"	b	4'-9"	Ь	4'-5"	ь
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"	Ь
3" x 2" x 0.045"	8'-4"	d	7'-4"	b	6'-6"	Ь	5'-10"	ь	5'-4"	b	4'-11"	Ь	4'-7"	Ь
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"	Ь
2" x 3" x 0.045"	8'-4"	d	7'-7"	d	7'-9"	d	6'-11"	d	6'-5"	d	5'-11"	Ь	5'-6"	b
2" x 4" x 0.050"	11'-2"	b	9'-7"	ь	8'-6"	b	7'-9"	Ь	7'-1"	Ь	6'-7"	Ь	6'-1"	Ь
2" x 5" x 0.062"	17'-3"	ь	14'-10"	b	13'-2"	b	11'-11"	ь	11'-0"	ь	10'-3"	b	9'-7"	b

		Tributary Load Width 'W'= Upright Spacing												
Snap Sections	3'-0"		4'-0"		5'-0"		6'-0"		7'-0"		8'-0'	•	9'-0'	
	Allowable Height "H" or Span "L" / bending (b), deflection (d)													
2" x 2" x 0.044"	6'-7"	d	5'-11"	d	5'-7"	d	5'-3"	d	4'-10"	b	4'-5"	b	4'-1"	Tb

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	e He	lght "H'	or	Span "L	"1	bending	(b)	deflecti	on (d)	
3" x 2" x 0.045"	9'-7"	Ь	8'-3"	b	7'-3"	b	6'-6"	b	5'-11"	b	5'-6"	Ь	5'-1"	Tb
3" x 2" x 0.070"	11'-5"	Ь	9'-10"	b	8'-8"	b	7'-10"	b	7'-2"	ь	6'-8"	b	6'-3"	ь
2" x 3" x 0.045"	11'-2"	d	9'-9"	Ь	8'-8"	b	7'-10"	ь	7'-2"	ь	6'-8"	b	6'-2"	Ь
2" x 4" x 0.050"	12'-6"	b	10'-9"	b	9'-6"	b	8'-7"	b	7'-11"	Ь	7'-4"	Ь	6'-10"	b
2" x 5" x 0.062"	19'-3"	Ь	16'-7"	b	14'-9"	b	13'-5"	Ь	12'-4"	Ь	11'-6"	Ь		1 _b

Snap Sections	Tributary Load Width 'W'= Upright Spacing												
	3'-0"	4'-0	"]	5'-0'	•	6'-0'		7'-0"		8'-0'		9'-0'	11
		Allowabl	e He	lght "H'	or:	Span "L	"1	bending	(b),	deflecti	on (d)	
2" x 2" x 0.044"	8'-10" c	7'-8"	b	6'-9"	Ь	6'-0"	Ь	5'-5"	Ь	4'-11"	Ь	4'-7"	Tb

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" \times 2" \times 0.044" min. and set @ 36" in height are designed to be residential gardrails provided they are attached with min. (3) #10 \times 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.

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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	m Number of	Screws*	Beam Stitching	
or Post	Post/Beam	& Knee Brace Size	***************************************	#8 x ½"	#10 x ½"	#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"					

^{* 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.)

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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" 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.
- 2. 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	Intermediate Post @ Chair Rail	Corner Post @ Bottom	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.

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Bennett Engineering Group, Inc. Lawrence E. Bennett, P.E.

315 Herbert Street Port Orange, FL 32129 386-767-4774 fax: 386-767-6556

January 1, 2009

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 2009.

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 2009 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,

MO. 166 1 TENDER OF TORTON

Lawrence E. Bennett, P.E. #16644

NOTICE OF COMMENCEMENT

PERMIT NUMBER:
STATE OF: FLORIDA COUNTY OF: 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: TOWNSHIP: RANGE:
TAX PARCEL NUMBER: 35-35-16-02309-047-HX
SUBDIVISION:PLATBOOK: MAP PAGE:
STREET ADDRESS: 146 NW Harris Lake Dr. Lake City Fla. 32055
GENERAL DESCRIPTION OF IMPROVEMENTS
TO CONSTRUCT: Screen enclosure
OWNER NAME: Michelle Louise Boatwright
ADDRESS: His NW Harris Lake Dr. PHONE NUMBER:
CITY: Lake City STATE: Fla. ZIP CODE: 32055
INTEREST IN PROPERTY:
FEE SIMPLE TITLEHOLDER NAME:
FEE SIMPLE TITLEHOLDER ADDRESS:
(if other than owner)
CONTRACTOR NAME: Vince Richardson Richardson Aluminum LLC. ADDRESS: 1692 SW Arlington Blvd PHONE NUMBER: 386-755-5779 CITY: Lake City STATE: Fla. ZIP CODE: 32025 BONDING COMPANY:
ADDRESS: PHONE NUMBER:
CITY: STATE: ZIP CODE:
LENDER NAME:
ADDRESS:PHONE NUMBER:
CITY: STATE: ZIP CODE:
Persons within the State of Florida designated by Owner upon whom notices or other documents may be served as provided by Section 713.13(1)(a) 7., Florida Statutes: NAME: ADDRESS:
In addition to himself, Owner designates
of to receive a copy of Lienor's Notice as provided in Section 713.13(1)(b), Florida Statutes.
Expiration date is one (1) year from date of recording unless a different date is specified.
SIGNATURE OF OWNER: Michael Book of April , A.D. 2004. 2009
Notary Public:
My commission Expires: SANDRA H. TILLOTSON MY COMMISSION # DD 629530 EXPIRES: January 31, 2011 Bonded Thru Budget Notary Services



OCCUPANCY

COLUMBIA COUNTY, FLORIDA

rtment of Building and Zoning

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.

Use Classificati	Parcel Number
Use Classification SCREEN ENCLOSURE	Parcel Number 35-3S-16-02309-047
Fire: 0.00	Building permit No
	permit No. 00002779

Permit Holder J. VINCE RICHARDSON Waste:

Total:

0.00

Location: 146 NW HARRIS LAKE DRIVE, LAKE CITY, FL

Date: 05/12/2009

Owner of Building MICHELLE BOATWRIGHT

Jayre M. Russ

Building Inspector

POST IN A CONSPICUOUS PLACE (Business Places Only)