

Columbia County Building Permit Application

For Office Use Only Application # 0901-30 Date Received 1-21-09 By JH Permit # 27590
 Zoning Official o/s Date 1/21/09 Flood Zone A Land Use RLD Zoning R2F-2
 FEMA Map # _____ Elevation _____ MFE _____ River _____ Plans Examiner (initials) Date 1-22-09
 Comments _____
☒ NOC ☒ EH ☒ Deed or PA ☐ Site Plan ☐ State Road Info ☐ Parent Parcel # _____
☐ Dev Permit # _____ ☐ In Floodway ☐ Letter of Auth. from Contractor ☐ F W Comp. letter
 IMPACT FEES: EMS _____ Fire _____ Corr _____ Road/Code _____
 School _____ = TOTAL _____

Septic Permit No. K-09-0018 - RELEASE IN BOX Fax 386-755-1751
 Name Authorized Person Signing Permit Robert or Madean M Intosh Phone 386-754-8678
 Address 289 NW Corinth Dr Lake City, FL 32055
 Owners Name Blankenship, James + Sherry Phone _____
 911 Address 768 NW Clubview Cir
 Contractors Name Michael A Delatoy Phone 386-754-8678
 Address 927 Hickory St Altamonte Springs, FL, 32701
 Fee Simple Owner Name & Address N/A
 Bonding Co. Name & Address N/A
 Architect/Engineer Name & Address Dohm & Bennett
 Mortgage Lenders Name & Address N/A
 Circle the correct power company - FL Power & Light - Clay Elec. - Suwannee Valley Elec. - Progress Energy
 Property ID Number 27-33-16-00346-016 Estimated Cost of Construction 16,113.00
 Subdivision Name Club View Park S/D Lot 243 Block 2 Unit _____ Phase _____
 Driving Directions W90, Right on NW Commerce Blvd, left on NW Clubview Cir, Right on NW Clubview Cir, second house on Right
 Number of Existing Dwellings on Property 1

Construction of Pool Enclosure Total Acreage _____ Lot Size 150' x 260'
 Do you need a - Culvert Permit or Culvert Waiver or Have an Existing Drive Total Building Height _____
 Actual Distance of Structure from Property Lines - Front 96 Side 106 Side 179 Rear 31
 Number of Stories 1 Heated Floor Area _____ Total Floor Area _____ Roof Pitch _____

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

JW CALLED + Spoke w/KEA 1.22.09

NOTICE OF COMMENCEMENT

County Clerk's Office Stamp or Seal

Tax Parcel Identification Number 27-35-16-023-16-016 H

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

1. Description of property (legal description): Lot 2+3 Block 2 Club View Park S/D
a) Street (job) Address: 768 NW Clubview Cir.
2. General description of improvements: Pool Enclosure
3. Owner Information
a) Name and address: Blankenship, James + Sherry
b) Name and address of fee simple titleholder (if other than owner) 768 NW Clubview Cir
c) Interest in property: owner
4. Contractor Information
a) Name and address: Mike DeLaHoz 289 NW Corinth Dr Lake City, FL
b) Telephone No.: 386-754-8678 Fax No. (Opt.): 32055
5. Surety Information
a) Name and address: N/A
b) Amount of Bond: _____
c) Telephone No.: _____ Fax No. (Opt.): _____
6. Lender
a) Name and address: N/A
b) Phone No.: _____
7. Identity of person within the State of Florida designated by owner upon whom notices or other documents may be served:
a) Name and address: _____
b) Telephone No.: _____ Fax No. (Opt.): _____
8. In addition to himself, owner designates the following person to receive a copy of the Lienor's Notice as provided in Section 713.13(1)(b).
Florida Statutes:
a) Name and address: Florida Pool Enclosures Inc 289 NW Corinth Dr
b) Telephone No.: _____ Fax No. (Opt.): Lake City FL 32055
9. Expiration date of Notice of Commencement (the expiration date is one year from the date of recording unless a different date is specified): _____

WARNING TO OWNER: ANY PAYMENTS MADE BY THE OWNER AFTER THE EXPIRATION OF THE NOTICE OF COMMENCEMENT ARE CONSIDERED IMPROPER PAYMENTS UNDER CHAPTER 713, PART I, SECTION 713.13, FLORIDA STATUTES, AND CAN RESULT IN YOUR 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 YOUR LENDER OR AN ATTORNEY BEFORE COMMENCING WORK OR RECORDING YOUR NOTICE OF COMMENCEMENT.

STATE OF FLORIDA
COUNTY OF COLUMBIA

[Signature]
Signature of Owner or Owner's Authorized Office/Director/Partner/Manager
Sherry R Blankenship
Print Name

The foregoing instrument was acknowledged before me, a Florida Notary, this 15th day of Dec, 2008, by:
_____ as _____ (type of authority, e.g. officer, trustee, attorney
fact) for _____ (name of party on behalf of whom instrument was executed).

Personally Known _____ OR Produced Identification ☒ Type Photo

Notary Signature [Signature] Notary Stamp or Seal:



—AND—

11. Verification pursuant to Section 92.525, Florida Statutes. Under penalties of perjury, I declare that I have read the foregoing and that the facts stated in it are true to the best of my knowledge and belief.

Columbia County Property Appraiser

DB Last Updated: 10/21/2008

Parcel: 27-3S-16-02346-016 HX

2008 Certified Values

Tax Record

Property Card

Interactive GIS Map

Print

Owner & Property Info

Search Result: 1 of 3

Next >>

Owner's Name	BLANKENSHIP JAMES H II &		
Site Address	CLUBVIEW		
Mailing Address	SHERRY R BLANKENSHIP 768 NW CLUBVIEW CIRCLE LAKE CITY, FL 32055		
Use Desc. (code)	SINGLE FAM (000100)		
Neighborhood	27316.08	Tax District	2
UD Codes	MKTA06	Market Area	06
Total Land Area	0.000 ACRES		
Description	LOTS 2 & 3 BLOCK 2 CLUB VIEW PARK S/D. ORB 637-565, 802-1468, 802-2077, 907-514, WD 1053-204.		

GIS Aerial**Property & Assessment Values**

Mkt Land Value	cnt: (1)	\$58,500.00
Ag Land Value	cnt: (0)	\$0.00
Building Value	cnt: (1)	\$139,079.00
XFOB Value	cnt: (6)	\$14,373.00
Total Appraised Value		\$211,952.00

Just Value	\$211,952.00
Class Value	\$0.00
Assessed Value	\$211,952.00
Exempt Value	(code: HX) \$50,000.00
Total Taxable Value	\$161,952.00

Sales History

Sale Date	Book/Page	Inst. Type	Sale VImp	Sale Qual	Sale RCode	Sale Price
7/21/2005	1053/204	WD	I	Q		\$250,000.00
7/26/2000	907/514	WD	I	Q		\$158,000.00
2/24/1995	802/1468	WD	I	Q		\$105,000.00

Building Characteristics

Bldg Item	Bldg Desc	Year Blt	Ext. Walls	Heated S.F.	Actual S.F.	Bldg Value
1	SINGLE FAM (000100)	1977	Common BRK (19)	2914	3254	\$139,079.00
Note: All S.F. calculations are based on exterior building dimensions.						

Extra Features & Out Buildings

Code	Desc	Year Blt	Value	Units	Dims	Condition (% Good)
0294	SHED WOOD/	0	\$500.00	1.000	0 x 0 x 0	(.00)
0166	CONC,PAVMT	0	\$2,800.00	1.000	0 x 0 x 0	(.00)
0190	FPLC PF	0	\$1,600.00	1.000	0 x 0 x 0	(.00)
0280	POOL R/CON	1985	\$7,373.00	512.000	32 x 16 x 0	(.00)
0120	CLFENCE 4	1993	\$300.00	1.000	0 x 0 x 0	(.00)

Land Breakdown

Lnd Code	Desc	Units	Adjustments	Eff Rate	Lnd Value
000100	SFR (MKT)	2.000 LT - (.000AC)	1.00/1.00/.75/1.00	\$29,250.00	\$58,500.00

Columbia County Property Appraiser

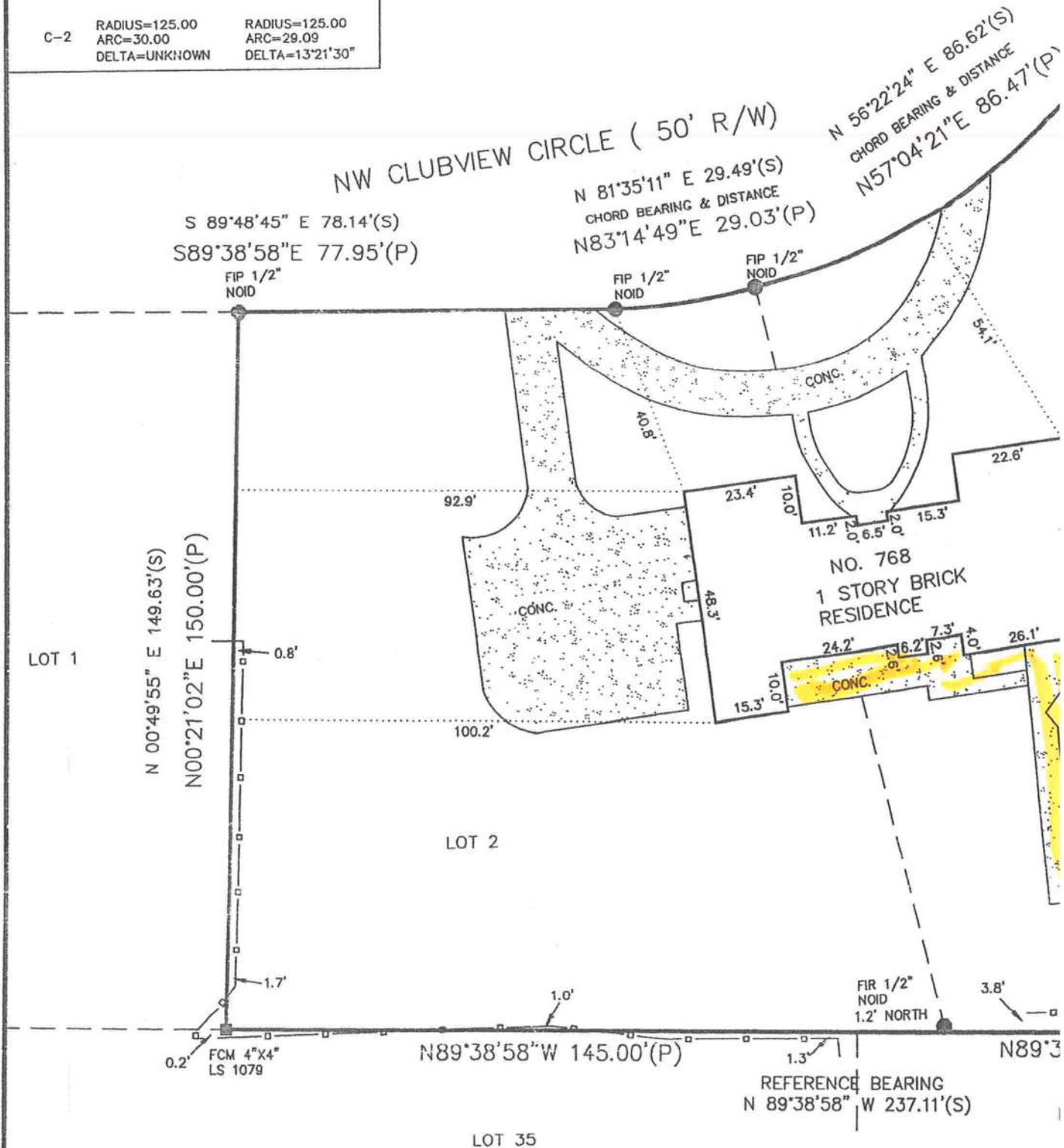
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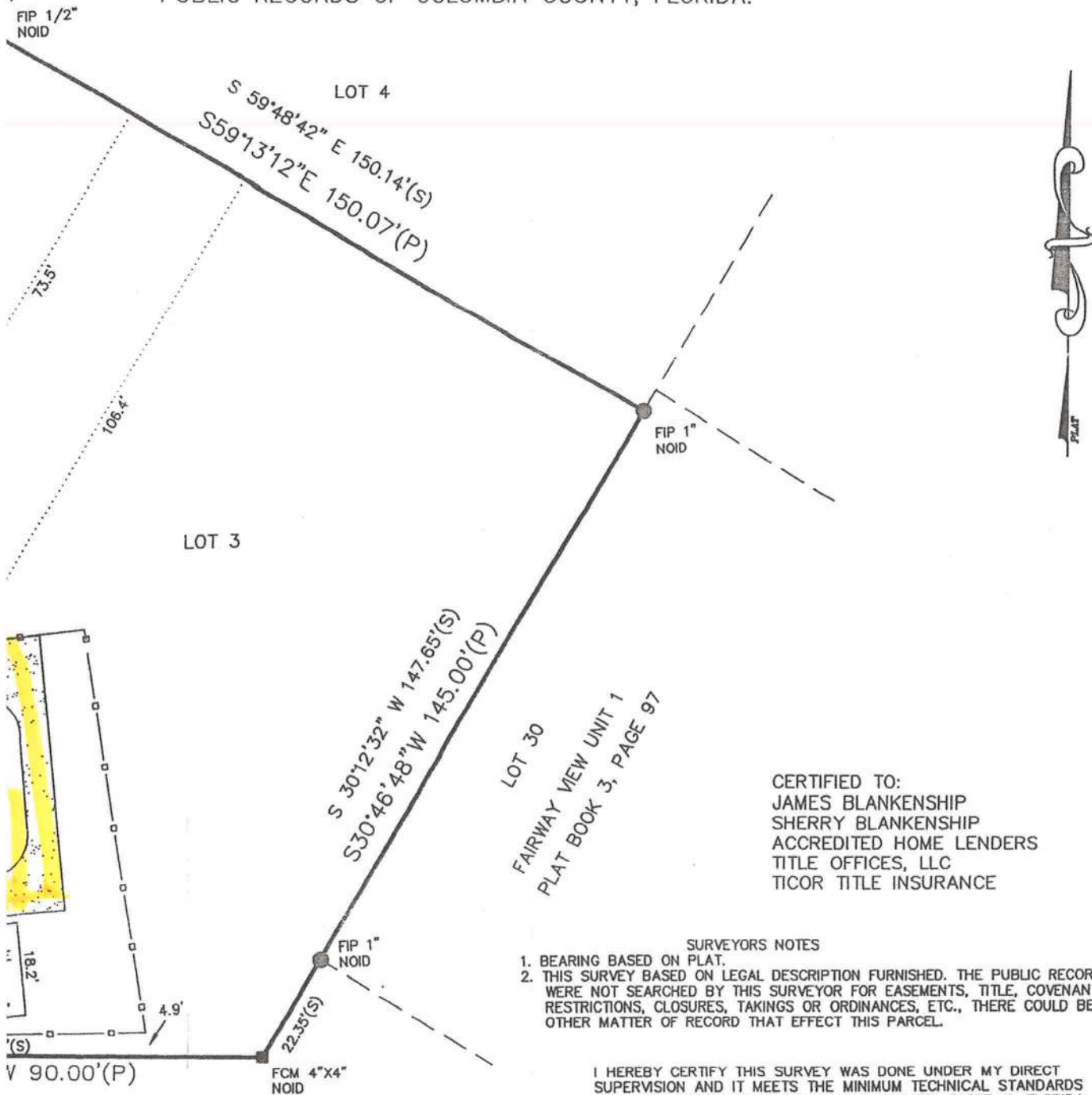
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CURVE DATA

	PLAT	SURVEY
C-1	RADIUS=125.00	RADIUS=125.00
	ARC=88.28	ARC=88.46
	DELTA=UNKNOWN	DELTA=40°32'44"
C-2	RADIUS=125.00	RADIUS=125.00
	ARC=30.00	ARC=29.09
	DELTA=UNKNOWN	DELTA=13°21'30"



SHOWING LOT 2 AND 3, BLOCK 2, CLUBVIEW PARK, A SUBDIVISION ACCORDING TO THE PLAT THEREOF AS RECORDED IN PLAT BOOK 3, PAGE 102, OF THE PUBLIC RECORDS OF COLUMBIA COUNTY, FLORIDA.



CERTIFIED TO:
JAMES BLANKENSHIP
SHERRY BLANKENSHIP
ACCREDITED HOME LENDERS
TITLE OFFICES, LLC
TICOR TITLE INSURANCE

SURVEYORS NOTES

2. THIS SURVEY BASED ON LEGAL DESCRIPTION FURNISHED. THE PUBLIC RECORDS, WERE NOT SEARCHED BY THIS SURVEYOR FOR EASEMENTS, TITLE, COVENANTS, RESTRICTIONS, CLOSURES, TAKINGS OR ORDINANCES, ETC., THERE COULD BE OTHER MATTER OF RECORD THAT EFFECT THIS PARCEL.

I HEREBY CERTIFY THIS SURVEY WAS DONE UNDER MY DIRECT SUPERVISION AND IT MEETS THE MINIMUM TECHNICAL STANDARDS FOR LAND SURVEYING PURSUANT TO CHAPTER 61G17-6, FLORIDA ADMINISTRATION CODE, CHAPTER 472, FLORIDA STATUTES.

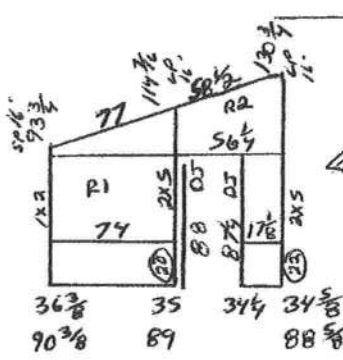
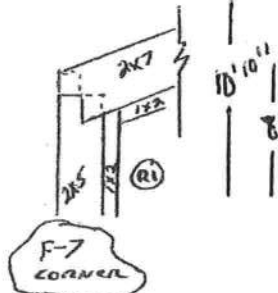
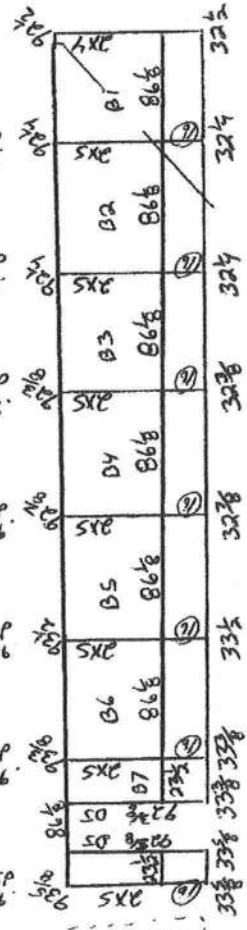
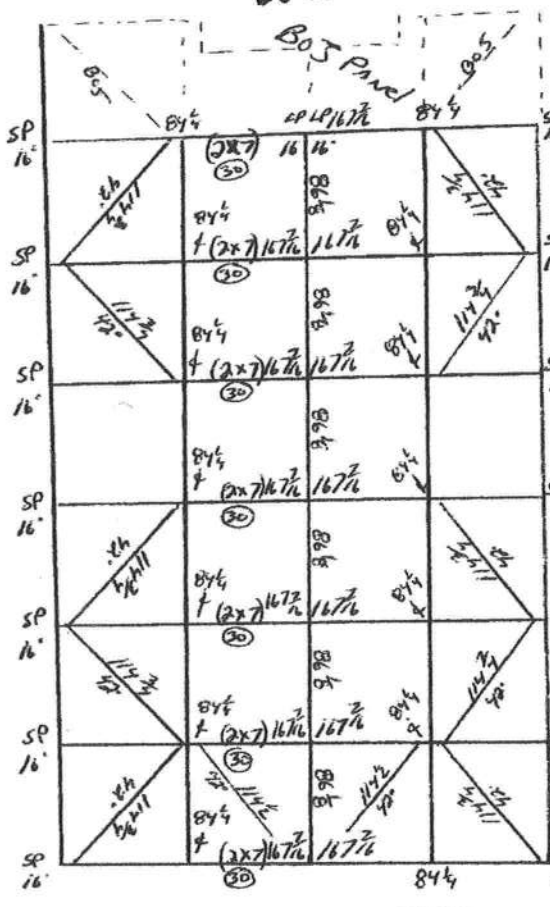
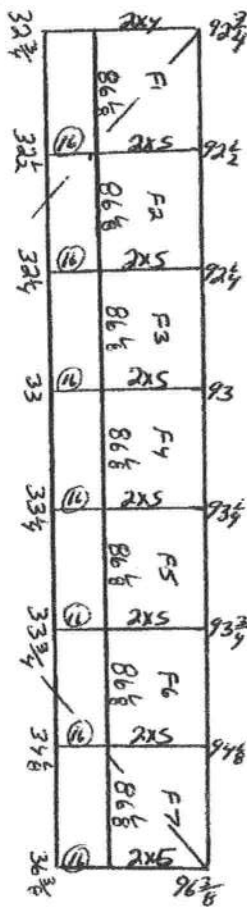
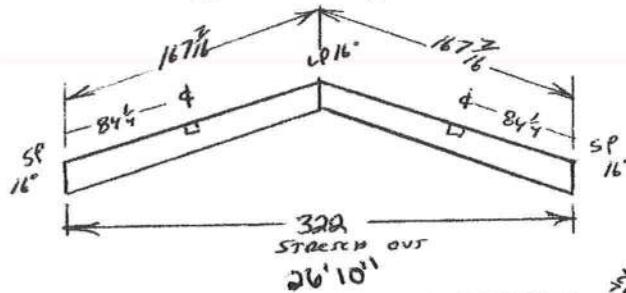
WILLIAM N. KITCHEN P.S.M. 5490

WILLIAM N. KITCHEN P.S.M. 5490
William N. Kitchen 7-13-2005

NOT VALID WITHOUT THE SIGNATURE AND THE ORIGINAL RAISED SEAL OF A FLORIDA LICENSED SURVEYOR AND MAPPER.				LEGEND (D) = DEED OS&P = OFFICIAL RECORD BOOK & PAGE (P) = PLAT PS&P = PLAT BOOK & PAGE (S) = SURVEY MEASUREMENT OHE = OVER HEAD ELECTRIC (C) = CALCULATED MEASUREMENT UGE = UNDER GROUND ELECTRIC NORD = NO SURVEYORS IDENTIFICATION <u>ST</u> = SEPTIC TANK LB = LICENSE BUSINESS LS = LAND SURVEYOR PM = PERMANENT REFERENCE MONUMENT FCM = FOUND CONCRETE MONUMENT FND = FOUND NAIL & DISK FIR = FOUND IRON ROD FIRP = FOUND IRON PIPE SCH = SET CONCRETE MONUMENT SRR = SET IRON ROD SRRD = SET NAIL & DISK C&A = CENTER LINE R/W = RIGHT OF WAY	
REV:					
WILLIAM N. KITCHEN PROFESSIONAL SURVEYOR AND MAPPER 152 N MARION AVENUE LAKE CITY, FLORIDA 32055 PHONE (386) 755-7786		DRAWN BY: WNK	FIELD BOOK: 05248		
		SCALE: 1" = 30'			
		SURVEY DATE: JULY 9, 2005			
		JOB NUMBER	SHEET		
CLIENT: JAMES & SHERRY BLANKENSHIP		05248	1 OF 1		

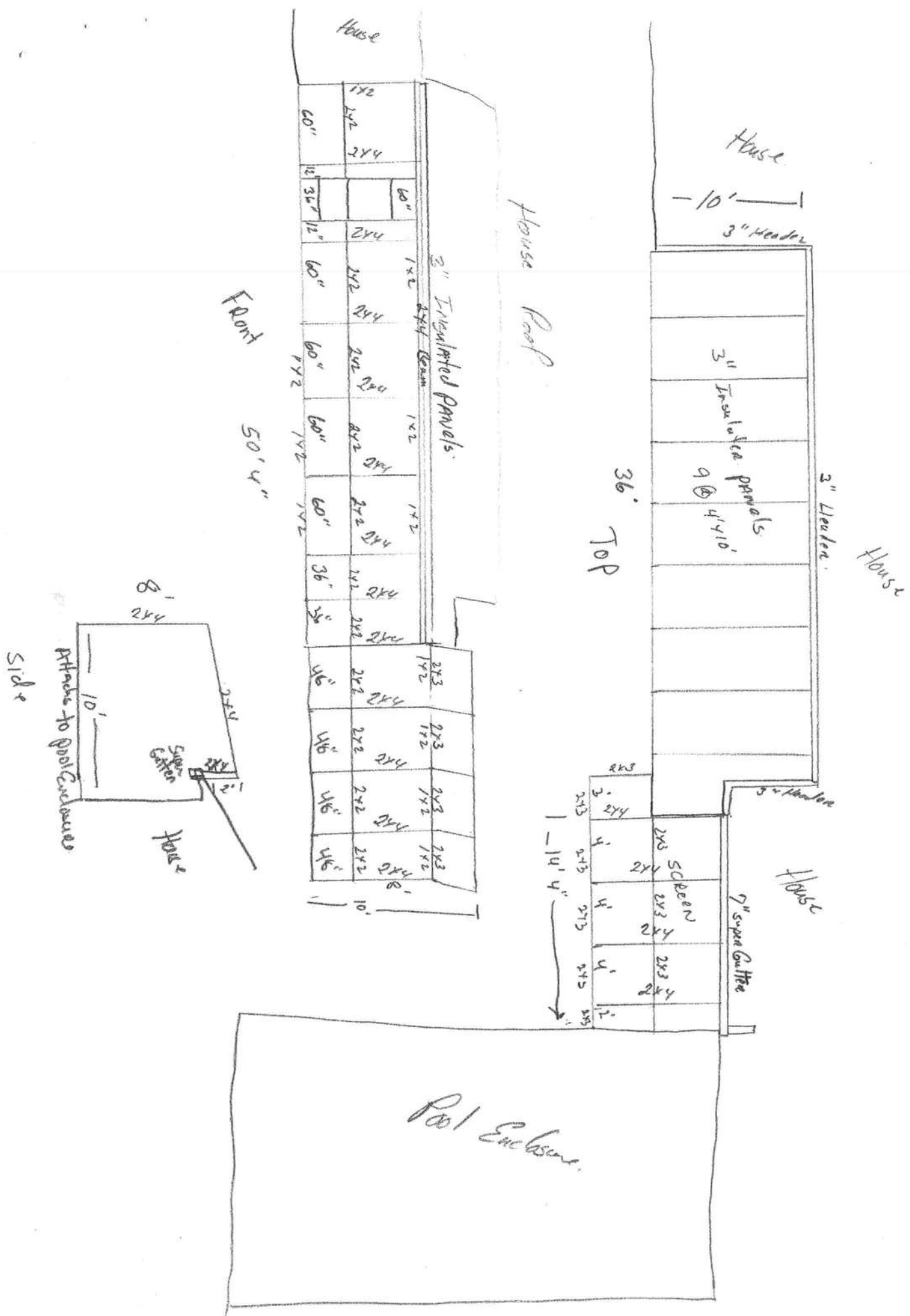
Florida Pool Enclosures
Lake City
Blakenship

MARL LIST
7" S.C.
14-2x7 p.c.s 30'
1-2x5 20'
1-2x5 24'
14-2x5 16'
1-2x4 p.c.s 24'
6-2x8 24'
11-1x2 24'
14-2x3 30'
4 Cables 11' (P)
4-R.O. 115 90"
1-R.O. 11 78"



WALLS
UNDER
2x7 BEAM





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:

Mike Delahoz
Florida Pool Enclosures Inc
P.O. Box 521136
Longwood, FL 32752
AAF Mid Fl

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

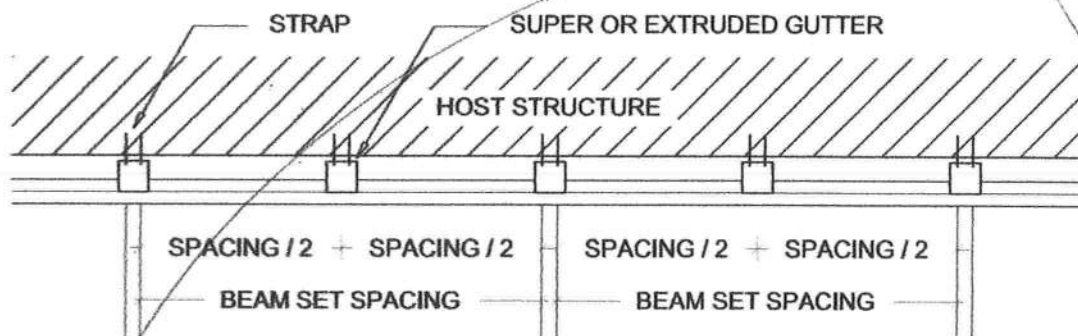
Sincerely,



Lawrence E. Bennett, P.E. #16644

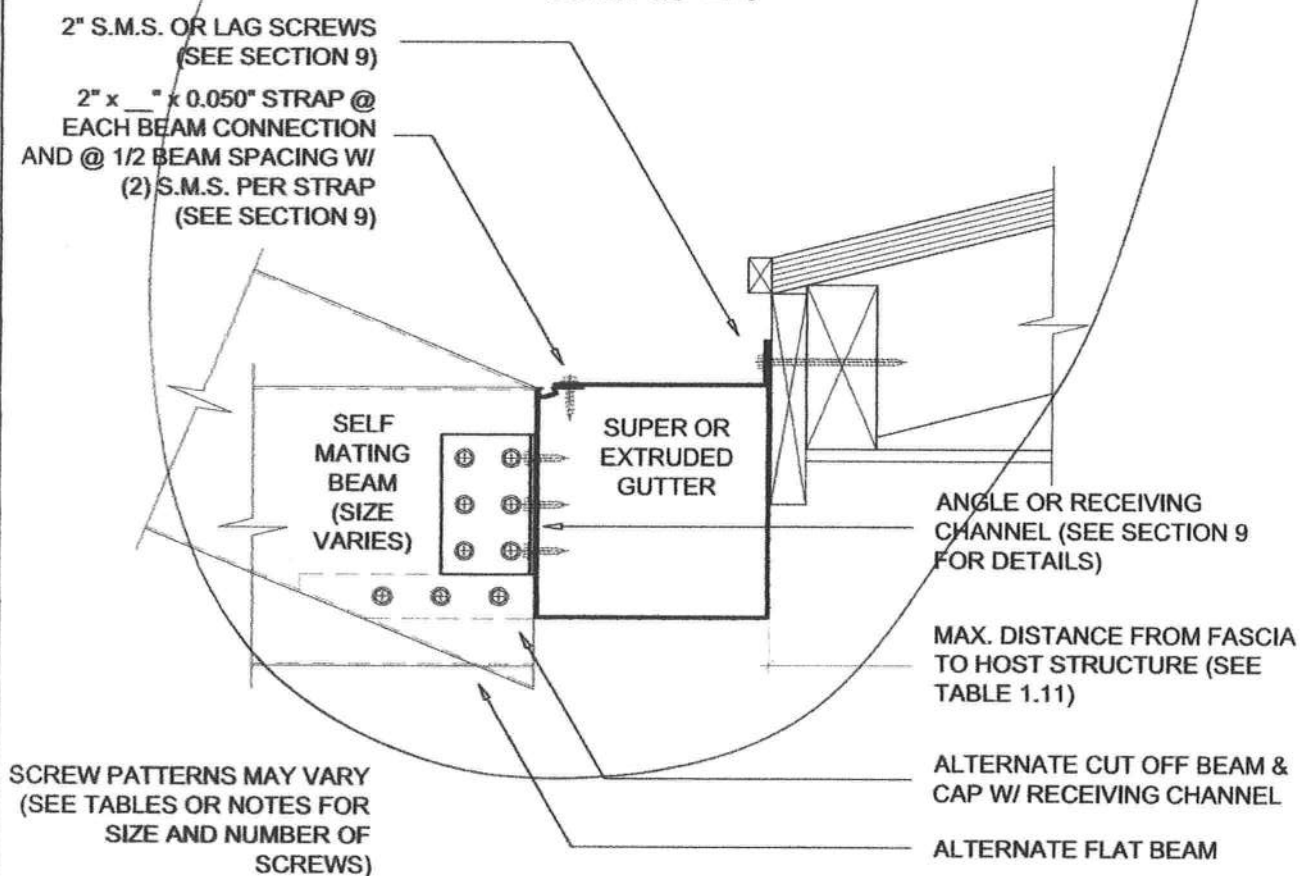
SECTION 1

SCREENED ENCLOSURES



STRAP LOCATION FOR SUPER OR EXTRUDED GUTTER REINFORCEMENT

SCALE: 3/8" = 1'-0"



SELF MATING BEAM CONNECTION TO SUPER OR EXTRUDED GUTTER

SCALE: 3" = 1'-0"

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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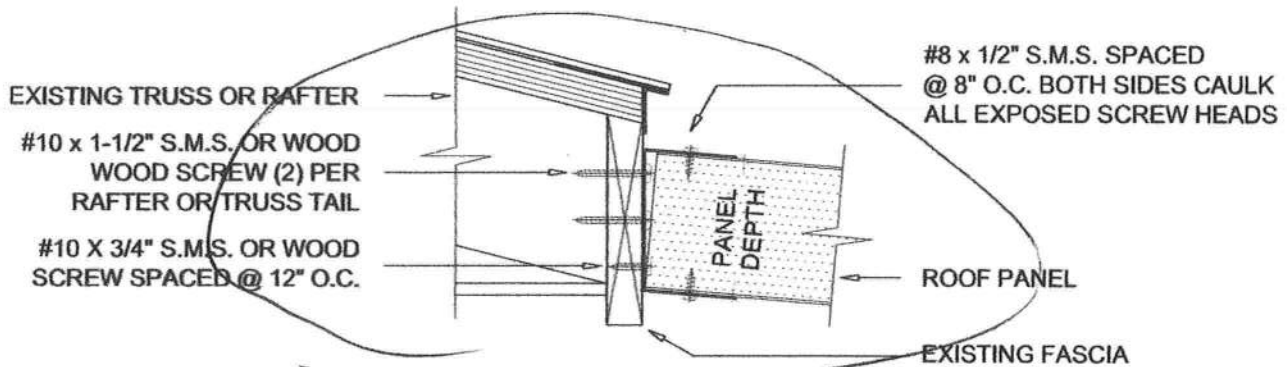
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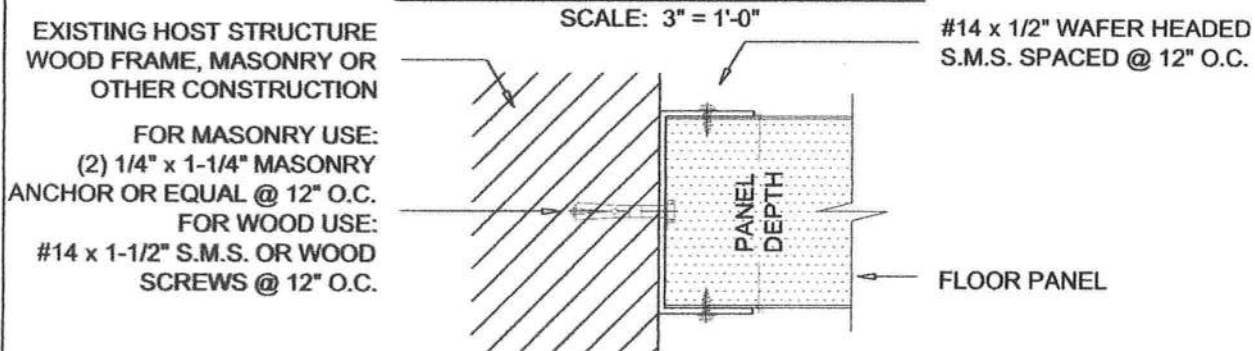
SECTION 7

SOLID ROOF PANEL PRODUCTS

COMPOSITE ROOF ANCHORING DETAILS



ROOF PANEL TO FASCIA DETAIL



ROOF OR FLOOR PANEL TO WALL DETAIL

SCALE: 3" = 1'-0"

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

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

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

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

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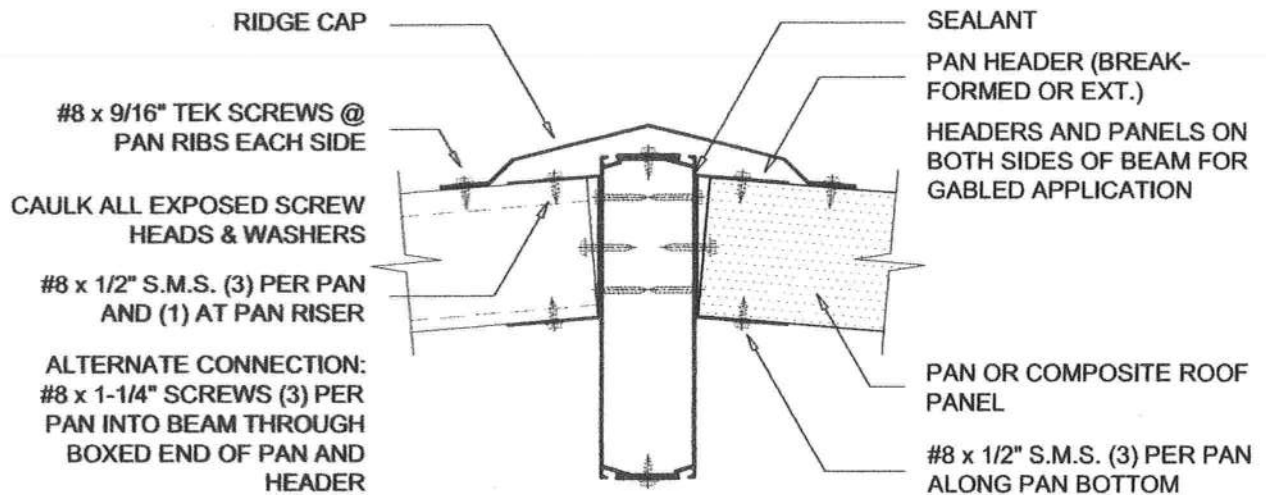
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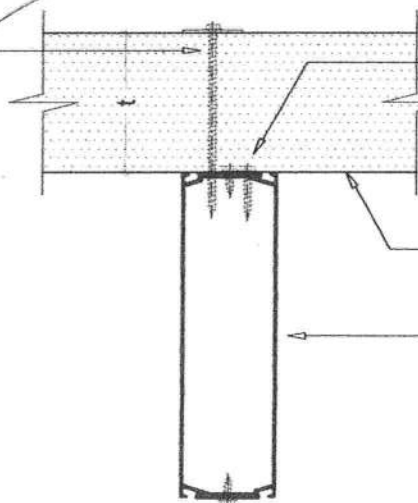
PAN ROOF ANCHORING DETAILS**ROOF PANEL TO BEAM DETAIL**

WHEN FASTENING TO ALUMINUM USE TRUFAST HD x ("t" + 3/4") AT 8" O.C. FOR UP TO 130 MPH WIND SPEED EXPOSURE "D"; 6" O.C. FOR ABOVE 130 MPH AND UP TO 150 MPH WIND SPEED EXPOSURE "D"

CAULK ALL EXPOSED SCREW HEADS & WASHERS

FOR COMPOSITE ROOFS: #10 x (t + 1/2") S.M.S. W/ 1-1/4" Ø FENDER WASHERS @ 12" O.C. (LENGTH = PANEL THICKNESS + 1") @ ROOF BEARING ELEMENT (SHOWN) AND 24" O.C. @ NON-BEARING ELEMENT (SIDE WALLS)

SCALE: 3" = 1'-0"



FOR PAN ROOFS: (3) EACH #8 x 1/2" LONG S.M.S. PER 12" PANEL W/ 3/4" ALUMINUM PAN WASHER

ROOF PANEL (PER TABLES SECTION 7)

SUPPORTING BEAM (PER TABLES)

ROOF PANEL TO BEAM FASTENING DETAIL

SCALE: 3" = 1'-0"

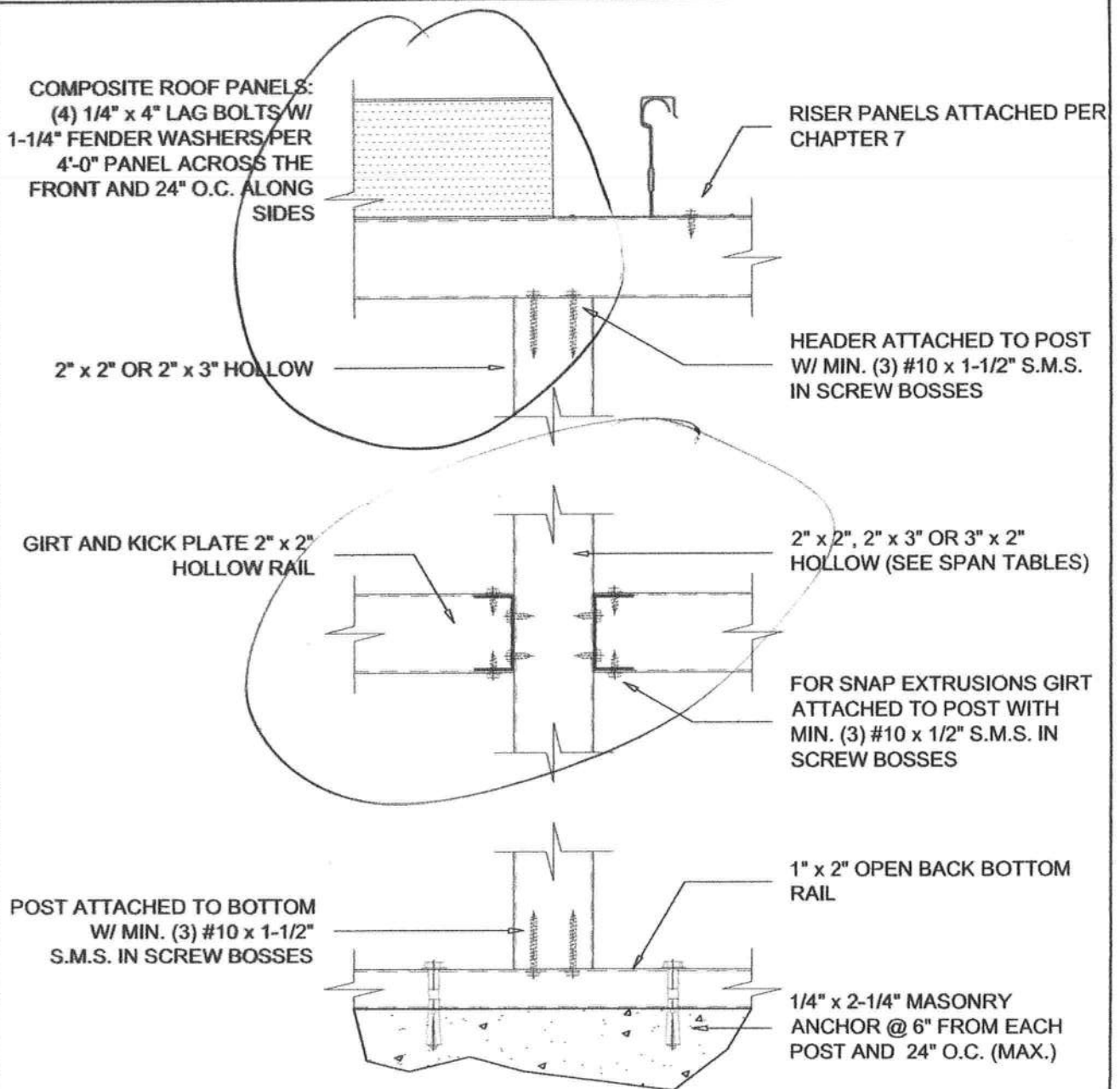
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TYPICAL UPRIGHT DETAIL

SCALE: 3" = 1'-0"

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SECTION 3A

SCREEN, ACRYLIC & VINYL ROOMS

ALTERNATE CONNECTION:
(2) #10 x 1-1/2" S.M.S.
THROUGH SPLINE GROOVES

EDGE BEAM

1" x 2" OPEN BACK ATTACHED
TO FRONT POST W/
#10 x 1-1/2" S.M.S. MAX. 6"
FROM EACH END OF POST
AND 24" O.C.

SIDE WALL HEADER
ATTACHED TO 1" x 2" OPEN
BACK W/ MIN. (2) #10 x 1-1/2"
S.M.S.

FRONT WALL GIRT

SIDE WALL GIRT ATTACHED TO
1" x 2" OPEN BACK W/ MIN. (3)
#10 x 1-1/2" S.M.S. IN SCREW
BOSSSES

1" x 2" OPEN BACK ATTACHED
TO FRONT POST W/
#10 x 1-1/2" S.M.S. MAX. 6"
FROM EACH END OF POST
AND 24" O.C.

FRONT AND SIDE BOTTOM
RAILS ATTACHED TO
CONCRETE W/ 1/4" x 2-1/4"
CONCRETE / MASONRY
ANCHORS @ 6" FROM EACH
POST AND 24" O.C. MAX. AND
WALLS MIN. 1" FROM EDGE OF
CONCRETE

1"
MIN.

TYPICAL & ALTERNATE CORNER DETAIL

SCALE: 3" = 1'-0"

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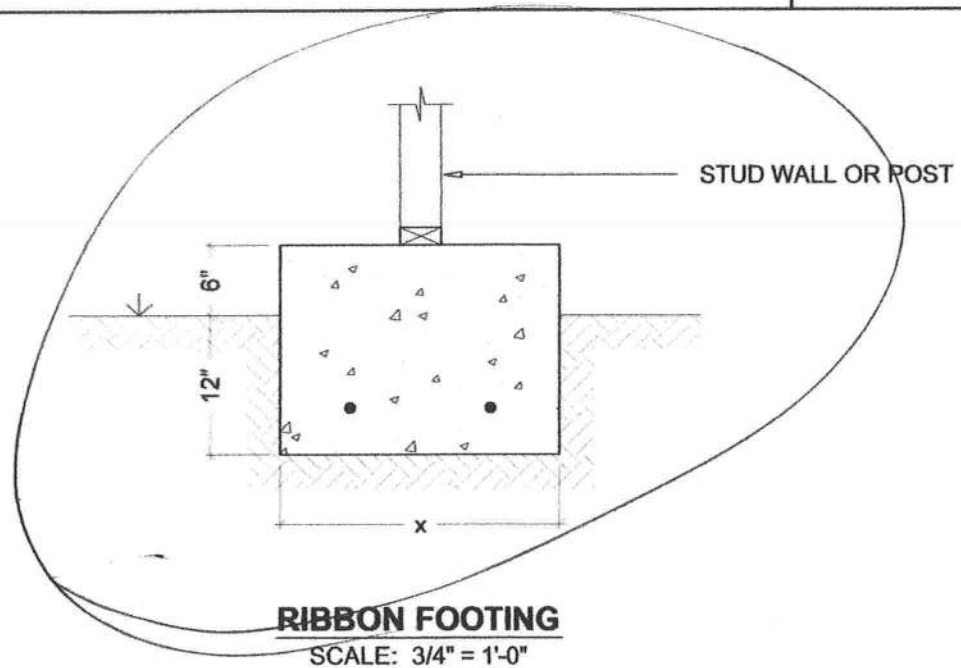
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Minimum Ribbon Footing

Wind Zone	# / Sq. Ft.	x	Post Anchor @ 48" O.C.	Stud * Anchors
100 - 123	+ 10 - 14	1'-0"	ABU 44	SP1 @ 32" O.C.
130 - 140-1	+ 30 - 17	1'-0"	ABU 44	SP1 @ 32" O.C.
140-2 - 150	+ 30 - 20	1'-3"	ABU 44	SPH4 @ 48" O.C.

Maximum 16' projection from host structure.

* For stud walls use 1/2" x 8" L-Bolts @ 48" O.C. and 2" square washers to attach sole plate to footing. Stud anchors shall be at the sole plate only and coil strap shall lap over the top plate on to the studs anchors and straps shall be per manufacturers specifications.

REVISED APRIL 2007

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

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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

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

1" x 2" OR 1" x 3"

PURLIN & CHAIR RAIL DETAIL

SCALE: 3" = 1'-0"

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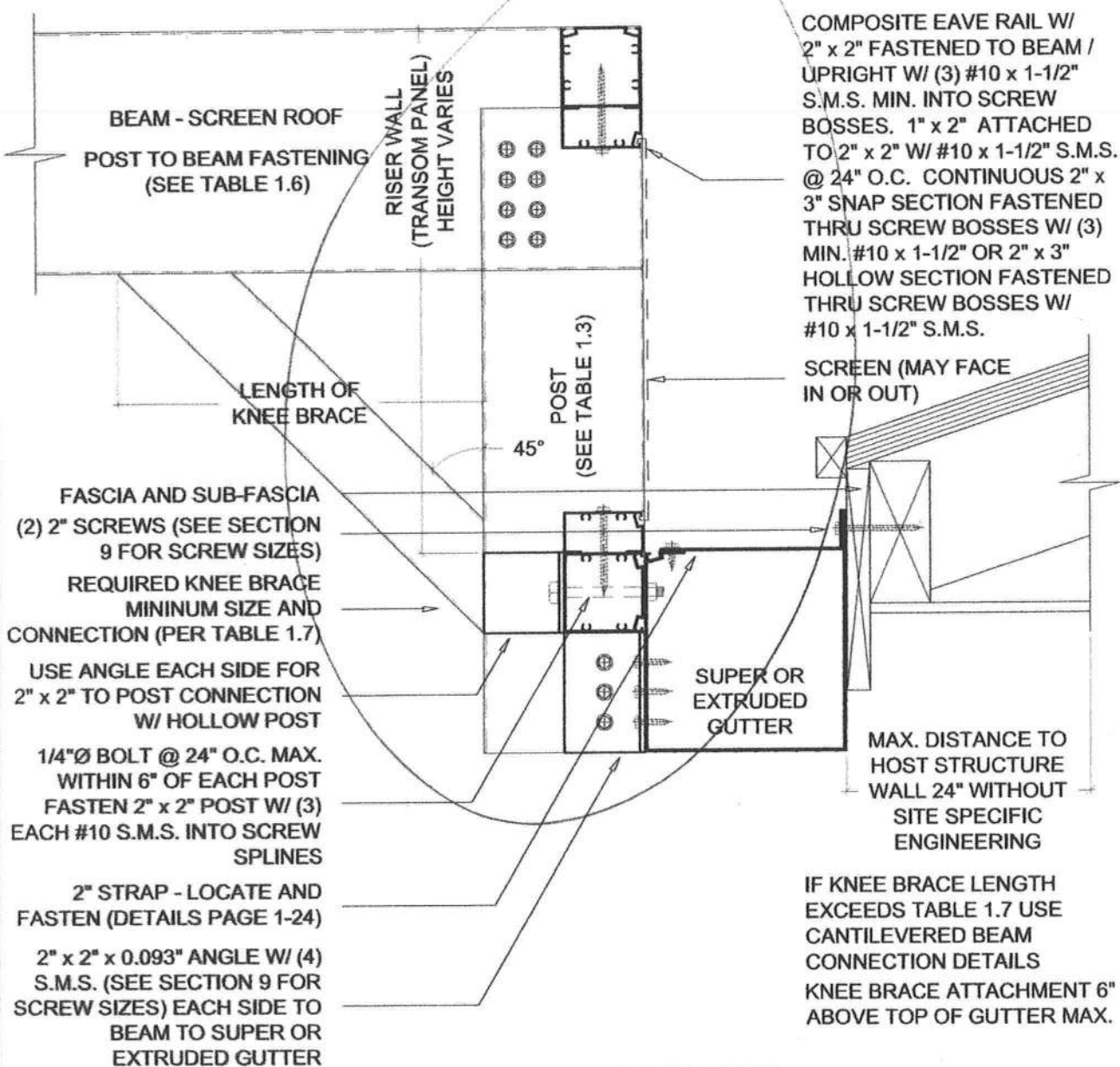
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SCREENED ENCLOSURES

SECTION 1



SUPER OR EXTRUDED GUTTER RISER (OR TRANSOM) WALL AT FASCIA - DETAIL 1

SCALE: 3" = 1'-0"

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

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SCREEN, ACRYLIC & VINYL ROOMS

SECTION 3A

**Table 3A.2.1 Allowable Upright Heights, Chair Rail Spans or Header Spans
for Screen, Acrylic or Vinyl Rooms
Aluminum Alloy 6063 T-6**

For 3 second wind gust at 110 MPH velocity; using design load of 13.0 #/SF

Sections	Tributary Load Width 'W' = Purlin Spacing									
	3'-0"	3'-6"	4'-0"	4'-6"	5'-0"	5'-6"	6'-0"	6'-6"	7'-0"	7'-6"
Allowable Height 'H' / bending 'b' or deflection 'd'										
2" x 2" x 0.044" Hollow	7'-6" b	6'-11" b	6'-6" b	6'-2" b	5'-10" b	5'-7" b	5'-4" b	5'-1" b	4'-11" b	4'-9" b
2" x 2" x 0.055" Hollow	8'-10" b	8'-2" b	7'-8" b	7'-2" b	6'-10" b	6'-6" b	6'-3" b	5'-11" b	5'-9" b	5'-7" b
3" x 2" x 0.045" Hollow	8'-4" b	7'-8" b	7'-2" b	6'-9" b	6'-5" b	6'-2" b	5'-10" b	5'-8" b	5'-5" b	5'-3" b
3" x 2" x 0.070" Hollow	11'-1" b	10'-3" b	9'-7" b	9'-1" b	8'-7" b	8'-2" b	7'-10" b	7'-7" b	7'-3" b	7'-0" b
2" x 3" x 0.045" Hollow	10'-2" b	9'-5" b	8'-9" b	8'-3" b	7'-10" b	7'-6" b	7'-2" b	6'-11" b	6'-8" b	6'-5" b
2" x 4" x 0.050" Hollow	10'-8" b	9'-11" b	9'-3" b	8'-9" b	8'-3" b	7'-11" b	7'-7" b	7'-3" b	6'-11" b	6'-9" b
2" x 5" x 0.062" Hollow	13'-9" b	12'-9" b	11'-11" b	11'-3" b	10'-8" b	10'-2" b	9'-9" b	9'-4" b	9'-0" b	8'-9" b
2" x 4" x 0.046" S.M.B.	15'-6" b	14'-4" b	13'-5" b	12'-8" b	12'-0" b	11'-5" b	10'-11" b	10'-6" b	10'-2" b	9'-10" b
2" x 5" x 0.050" S.M.B.	18'-6" b	17'-1" b	16'-0" b	15'-1" b	14'-4" b	13'-8" b	13'-1" b	12'-7" b	12'-1" b	11'-8" b
2" x 6" x 0.050" S.M.B.	19'-3" b	17'-10" b	16'-8" b	15'-9" b	14'-11" b	14'-3" b	13'-8" b	13'-1" b	12'-7" b	12'-2" b
2" x 2" x 0.044" Snap	9'-2" b	8'-6" b	7'-11" b	7'-6" b	7'-1" b	6'-9" b	6'-6" b	6'-3" b	5'-11" b	5'-9" b
2" x 3" x 0.045" Snap	10'-5" b	9'-7" b	8'-11" b	8'-6" b	8'-1" b	7'-8" b	7'-4" b	7'-1" b	6'-10" b	6'-7" b
2" x 4" x 0.045" Snap	11'-3" b	10'-5" b	9'-9" b	9'-2" b	8'-8" b	8'-3" b	7'-11" b	7'-7" b	7'-4" b	7'-1" b
3" x 3" x 0.045" Fluted	9'-1" b	8'-5" b	7'-10" b	7'-5" b	7'-0" b	6'-8" b	6'-5" b	6'-2" b	5'-11" b	5'-9" b
3" x 3" x 0.060" Square	11'-2" b	10'-4" b	9'-8" b	9'-1" b	8'-8" b	8'-3" b	7'-11" b	7'-7" b	7'-4" b	7'-1" b
3" x 3" x 0.093" Square	16'-0" b	14'-10" b	13'-11" b	13'-1" b	12'-5" b	11'-10" b	11'-4" b	10'-11" b	10'-6" b	10'-2" b
3" x 3" x 0.125" Square	19'-1" b	17'-8" b	16'-7" b	15'-7" b	14'-10" b	14'-1" b	13'-6" b	12'-11" b	12'-6" b	12'-1" b
4" x 4" x 0.125" Square	24'-9" b	22'-11" b	21'-5" b	20'-2" b	19'-2" b	18'-3" b	17'-6" b	16'-9" b	16'-2" b	15'-8" b

For 3 second wind gust at 120 MPH velocity; using design load of 15.0 #/SF

Sections	Tributary Load Width 'W' = Purlin Spacing									
	3'-0"	3'-6"	4'-0"	4'-6"	5'-0"	5'-6"	6'-0"	6'-6"	7'-0"	7'-6"
Allowable Height 'H' / bending 'b' or deflection 'd'										
2" x 2" x 0.044" Hollow	6'-11" b	6'-6" b	6'-1" b	5'-9" b	5'-5" b	5'-2" b	4'-11" b	4'-9" b	4'-7" b	4'-5" b
2" x 2" x 0.055" Hollow	8'-2" b	7'-7" b	7'-1" b	6'-8" b	6'-4" b	6'-1" b	5'-10" b	5'-7" b	5'-4" b	5'-2" b
3" x 2" x 0.045" Hollow	7'-9" b	7'-2" b	6'-8" b	6'-4" b	5'-11" b	5'-8" b	5'-6" b	5'-3" b	5'-1" b	4'-11" b
3" x 2" x 0.070" Hollow	10'-4" b	9'-7" b	8'-11" b	8'-5" b	8'-0" b	7'-8" b	7'-4" b	7'-0" b	6'-9" b	6'-6" b
2" x 3" x 0.045" Hollow	9'-5" b	8'-9" b	8'-2" b	7'-9" b	7'-4" b	6'-11" b	6'-8" b	6'-5" b	6'-2" b	5'-11" b
2" x 4" x 0.050" Hollow	9'-11" b	9'-2" b	8'-7" b	8'-1" b	7'-8" b	7'-4" b	7'-0" b	6'-9" b	6'-6" b	6'-3" b
2" x 5" x 0.062" Hollow	12'-10" b	11'-11" b	11'-1" b	10'-6" b	9'-11" b	9'-6" b	9'-1" b	8'-9" b	8'-5" b	8'-1" b
2" x 4" x 0.046" S.M.B.	14'-5" b	13'-4" b	12'-6" b	11'-10" b	11'-2" b	10'-8" b	10'-3" b	9'-10" b	9'-5" b	9'-2" b
2" x 5" x 0.050" S.M.B.	17'-3" b	15'-11" b	14'-11" b	14'-1" b	13'-4" b	12'-9" b	12'-2" b	11'-8" b	11'-3" b	10'-11" b
2" x 6" x 0.050" S.M.B.	17'-11" b	16'-7" b	15'-6" b	14'-8" b	13'-11" b	13'-3" b	12'-8" b	12'-2" b	11'-9" b	11'-4" b
2" x 2" x 0.044" Snap	8'-6" b	7'-11" b	7'-5" b	6'-11" b	6'-7" b	6'-4" b	6'-0" b	5'-9" b	5'-7" b	5'-5" b
2" x 3" x 0.045" Snap	9'-8" b	8'-11" b	8'-5" b	7'-11" b	7'-6" b	7'-2" b	6'-10" b	6'-7" b	6'-4" b	6'-1" b
2" x 4" x 0.045" Snap	10'-5" b	9'-8" b	9'-1" b	8'-6" b	8'-1" b	7'-9" b	7'-5" b	7'-1" b	6'-10" b	6'-7" b
3" x 3" x 0.045" Fluted	8'-5" b	7'-10" b	7'-4" b	6'-11" b	6'-6" b	6'-3" b	5'-11" b	5'-9" b	5'-6" b	5'-4" b
3" x 3" x 0.060" Square	10'-5" b	9'-7" b	8'-11" b	8'-6" b	8'-0" b	7'-8" b	7'-4" b	7'-1" b	6'-10" b	6'-7" b
3" x 3" x 0.093" Square	14'-11" b	13'-10" b	12'-11" b	12'-2" b	11'-7" b	11'-0" b	10'-7" b	10'-2" b	9'-9" b	9'-5" b
3" x 3" x 0.125" Square	17'-9" b	16'-6" b	15'-5" b	14'-6" b	13'-9" b	13'-2" b	12'-7" b	12'-1" b	11'-8" b	11'-3" b
4" x 4" x 0.125" Square	23'-0" b	21'-4" b	19'-11" b	18'-9" b	17'-10" b	16'-11" b	16'-3" b	15'-8" b	15'-1" b	14'-7" b

Notes:

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

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SECTION 7

SOLID ROOF PANEL PRODUCTS

Table 7.4.1 Structural Building Systems Inc. Snap & Lock® Composite Roof Panels

Allowable Spans and Applied Loads (#/SF)

Manufacturers Proprietary Products: Aluminum Alloy 3105 H-14 or H-25 Foam Core E.P.S. #1 Density
3" x 48" x 0.024" Panels

Zone (MPH)	Open Structures			Screen Rooms			Glass & Modular Rooms			Overhang / Cantilever
	1&2	3	4	1&2	3	4	1&2	3	4	
100	span/load" 13 21-1"	span/load" 13 20-5"	span/load" 13 18-3"	span/load" 13 16-4"	span/load" 13 14-1"	span/load" 13 12-1"	span/load" 13 10-5"	span/load" 13 8-2"	span/load" 13 6-0"	4'-0"
110	span/load" 14 20-6"	span/load" 14 19-10"	span/load" 14 17-9"	span/load" 14 15-11"	span/load" 14 13-8"	span/load" 14 11-5"	span/load" 14 9-5"	span/load" 14 7-2"	span/load" 14 5-0"	4'-0"
120	span/load" 17 18-7"	span/load" 17 17-11"	span/load" 17 15-8"	span/load" 17 13-6"	span/load" 17 11-3"	span/load" 17 9-1"	span/load" 17 6-8"	span/load" 17 4-5"	span/load" 17 2-3"	4'-0"
130	span/load" 17 18-1"	span/load" 17 17-5"	span/load" 17 15-8"	span/load" 17 13-6"	span/load" 17 11-3"	span/load" 17 9-1"	span/load" 17 6-8"	span/load" 17 4-5"	span/load" 17 2-3"	4'-0"
140-1	span/load" 27 15-11"	span/load" 23 13-8"	span/load" 23 11-3"	span/load" 23 9-1"	span/load" 23 6-8"	span/load" 23 4-5"	span/load" 23 2-3"	span/load" 23 0-1"	span/load" 23 0-1"	3'-7"
140-2	span/load" 27 15-11"	span/load" 23 13-8"	span/load" 23 11-3"	span/load" 23 9-1"	span/load" 23 6-8"	span/load" 23 4-5"	span/load" 23 2-3"	span/load" 23 0-1"	span/load" 23 0-1"	3'-7"
150	span/load" 32 13-5"	span/load" 32 12-11"	span/load" 32 10-5"	span/load" 32 8-2"	span/load" 32 6-0"	span/load" 32 3-7"	span/load" 32 1-4"	span/load" 32 0-1"	span/load" 32 0-1"	3'-4"

3" x 48" x 0.030" Panels

Zone (MPH)	Open Structures			Screen Rooms			Glass & Modular Rooms			Overhang / Cantilever
	1&2	3	4	1&2	3	4	1&2	3	4	
100	span/load" 13 24-9"	span/load" 13 23-11"	span/load" 13 21-5"	span/load" 13 19-2"	span/load" 13 17-0"	span/load" 13 14-8"	span/load" 13 12-5"	span/load" 13 10-2"	span/load" 13 7-9"	4'-0"
110	span/load" 14 24-1"	span/load" 14 23-3"	span/load" 14 21-0"	span/load" 14 18-8"	span/load" 14 16-5"	span/load" 14 14-2"	span/load" 14 11-9"	span/load" 14 9-6"	span/load" 14 7-3"	4'-0"
120	span/load" 17 21-9"	span/load" 17 20-6"	span/load" 17 18-4"	span/load" 17 16-1"	span/load" 17 13-8"	span/load" 17 11-5"	span/load" 17 9-2"	span/load" 17 6-9"	span/load" 17 4-6"	4'-0"
130	span/load" 17 21-2"	span/load" 17 20-0"	span/load" 17 17-4"	span/load" 17 15-1"	span/load" 17 12-8"	span/load" 17 10-5"	span/load" 17 8-2"	span/load" 17 5-9"	span/load" 17 3-6"	4'-0"
140-1	span/load" 23 18-8"	span/load" 23 16-5"	span/load" 23 14-2"	span/load" 23 11-9"	span/load" 23 9-6"	span/load" 23 7-3"	span/load" 23 5-0"	span/load" 23 2-7"	span/load" 23 0-4"	4'-0"
140-2	span/load" 23 18-8"	span/load" 23 16-5"	span/load" 23 14-2"	span/load" 23 11-9"	span/load" 23 9-6"	span/load" 23 7-3"	span/load" 23 5-0"	span/load" 23 2-7"	span/load" 23 0-4"	4'-0"
150	span/load" 26 17-6"	span/load" 26 16-11"	span/load" 26 14-8"	span/load" 26 12-5"	span/load" 26 10-2"	span/load" 26 7-9"	span/load" 26 5-6"	span/load" 26 3-3"	span/load" 26 1-0"	3'-11"

4" x 48" x 0.024" Panels

Zone (MPH)	Open Structures			Screen Rooms			Glass & Modular Rooms			Overhang / Cantilever
	1&2	3	4	1&2	3	4	1&2	3	4	
100	span/load" 13 23-2"	span/load" 13 22-4"	span/load" 13 20-1"	span/load" 13 17-11"	span/load" 13 15-8"	span/load" 13 13-5"	span/load" 13 11-2"	span/load" 13 8-9"	span/load" 13 6-6"	4'-0"
110	span/load" 14 22-6"	span/load" 14 21-8"	span/load" 14 19-5"	span/load" 14 17-2"	span/load" 14 14-9"	span/load" 14 12-6"	span/load" 14 10-3"	span/load" 14 8-0"	span/load" 14 5-7"	4'-0"
120	span/load" 17 19-10"	span/load" 17 18-2"	span/load" 17 15-9"	span/load" 17 13-6"	span/load" 17 11-3"	span/load" 17 9-0"	span/load" 17 6-7"	span/load" 17 4-4"	span/load" 17 2-1"	4'-0"
130	span/load" 20 18-9"	span/load" 20 18-1"	span/load" 20 15-8"	span/load" 20 13-5"	span/load" 20 11-2"	span/load" 20 8-9"	span/load" 20 6-6"	span/load" 20 4-3"	span/load" 20 2-0"	4'-0"
140-1	span/load" 23 17-5"	span/load" 23 16-10"	span/load" 23 13-8"	span/load" 23 11-5"	span/load" 23 9-2"	span/load" 23 6-9"	span/load" 23 4-6"	span/load" 23 2-3"	span/load" 23 0-0"	3'-11"
140-2	span/load" 23 17-5"	span/load" 23 16-10"	span/load" 23 13-8"	span/load" 23 11-5"	span/load" 23 9-2"	span/load" 23 6-9"	span/load" 23 4-6"	span/load" 23 2-3"	span/load" 23 0-0"	3'-11"
150	span/load" 32 16-4"	span/load" 32 15-10"	span/load" 32 12-7"	span/load" 32 10-4"	span/load" 32 8-1"	span/load" 32 5-8"	span/load" 32 3-5"	span/load" 32 1-2"	span/load" 32 0-0"	3'-8"

4" x 48" x 0.030" Panels

Zone (MPH)	Open Structures			Screen Rooms			Glass & Modular Rooms			Overhang / Cantilever
	1&2	3	4	1&2	3	4	1&2	3	4	
100	span/load" 13 26-8"	span/load" 13 25-9"	span/load" 13 23-1"	span/load" 13 20-8"	span/load" 13 18-5"	span/load" 13 16-2"	span/load" 13 13-9"	span/load" 13 11-6"	span/load" 13 9-3"	All
110	span/load" 14 25-11"	span/load" 14 24-2"	span/load" 14 21-9"	span/load" 14 19-6"	span/load" 14 17-3"	span/load" 14 15-0"	span/load" 14 12-7"	span/load" 14 10-4"	span/load" 14 8-1"	4'-0"
120	span/load" 17 23-5"	span/load" 17 22-6"	span/load" 17 20-3"	span/load" 17 18-0"	span/load" 17 15-7"	span/load" 17 13-4"	span/load" 17 11-1"	span/load" 17 8-8"	span/load" 17 6-5"	4'-0"
130	span/load" 20 21-7"	span/load" 20 20-10"	span/load" 20 17-7"	span/load" 20 15-4"	span/load" 20 13-1"	span/load" 20 10-8"	span/load" 20 8-5"	span/load" 20 6-2"	span/load" 20 3-9"	4'-0"
140-1	span/load" 23 20-1"	span/load" 23 18-5"	span/load" 23 16-2"	span/load" 23 13-9"	span/load" 23 11-6"	span/load" 23 9-3"	span/load" 23 7-0"	span/load" 23 4-7"	span/load" 23 2-4"	4'-0"
140-2	span/load" 23 20-1"	span/load" 23 18-5"	span/load" 23 16-2"	span/load" 23 13-9"	span/load" 23 11-6"	span/load" 23 9-3"	span/load" 23 7-0"	span/load" 23 4-7"	span/load" 23 2-4"	4'-0"
150	span/load" 26 18-10"	span/load" 26 16-3"	span/load" 26 14-0"	span/load" 26 11-7"	span/load" 26 9-4"	span/load" 26 7-1"	span/load" 26 4-8"	span/load" 26 2-5"	span/load" 26 0-2"	4'-0"

Note: Total roof panel width = room width + wall width + overhang. *Design or applied load based on the effective area of the panel

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SCREEN, ACRYLIC & VINYL ROOMS

SECTION 3A

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

For 3 second wind gust at 110 MPH velocity; using design load of 11.0 #/SF (47.1 #/SF for Max. Cantilever)
Aluminum Alloy 6063 T-6

2" x 2" x 0.044"					2" x 2" x 0.055"				
Load Width (ft.)	Max. Span 'L' / (bending 'b' or deflection 'd')				Load Width (ft.)	Max. Span 'L' / (bending 'b' or deflection 'd')			
	1 & 2 Span	3 Span	4 Span	Max. Cantilever		1 & 2 Span	3 Span	4 Span	Max. Cantilever
5	5'-4" d	6'-7" d	6'-9" d	0'-11" d	5	5'-8" d	6'-11" d	7'-1" d	1'-0" d
6	5'-0" d	6'-2" d	6'-4" d	0'-11" d	6	5'-4" d	6'-7" d	6'-8" d	0'-11" d
7	4'-9" d	5'-11" d	5'-11" b	0'-10" d	7	5'-1" d	6'-3" d	6'-4" d	0'-11" d
8	4'-7" d	5'-8" d	5'-7" b	0'-10" d	8	4'-10" d	5'-11" d	6'-1" b	0'-11" d
9	4'-5" d	5'-5" d	5'-3" b	0'-10" d	9	4'-8" d	5'-9" d	5'-9" b	0'-10" d
10	4'-3" d	5'-2" b	4'-11" b	0'-9" d	10	4'-6" d	5'-6" d	5'-5" b	0'-10" d
11	4'-1" d	4'-11" b	4'-9" b	0'-9" d	11	4'-4" d	5'-4" d	5'-2" b	0'-10" d
12	3'-11" d	4'-8" b	4'-7" b	0'-9" d	12	4'-3" d	5'-2" b	4'-11" b	0'-9" d
3" x 2" x 0.045"					3" x 2" x 0.070"				
Load Width (ft.)	Max. Span 'L' / (bending 'b' or deflection 'd')				Load Width (ft.)	Max. Span 'L' / (bending 'b' or deflection 'd')			
	1 & 2 Span	3 Span	4 Span	Max. Cantilever		1 & 2 Span	3 Span	4 Span	Max. Cantilever
5	6'-0" d	7'-5" d	7'-7" d	1'-1" d	5	6'-9" d	8'-5" d	8'-7" d	1'-3" d
6	5'-8" d	7'-0" d	7'-2" d	1'-0" d	6	6'-5" d	7'-11" d	8'-0" d	1'-2" d
7	5'-5" d	6'-8" d	6'-10" d	0'-11" d	7	6'-1" d	7'-6" d	7'-8" d	1'-1" d
8	5'-2" d	6'-4" d	6'-5" b	0'-11" d	8	5'-10" d	7'-2" d	7'-4" d	1'-1" d
9	4'-11" d	6'-2" d	6'-1" b	0'-11" d	9	5'-7" d	6'-11" d	7'-0" d	1'-0" d
10	4'-9" d	5'-11" d	5'-9" b	0'-10" d	10	5'-5" d	6'-8" d	6'-9" b	0'-11" d
11	4'-8" d	5'-8" b	5'-6" b	0'-10" d	11	5'-3" d	6'-5" d	6'-5" b	0'-11" d
12	4'-6" d	5'-5" b	5'-3" b	0'-10" d	12	5'-1" d	6'-3" d	6'-2" b	0'-11" d
2" x 3" x 0.045"					2" x 4" x 0.050"				
Load Width (ft.)	Max. Span 'L' / (bending 'b' or deflection 'd')				Load Width (ft.)	Max. Span 'L' / (bending 'b' or deflection 'd')			
	1 & 2 Span	3 Span	4 Span	Max. Cantilever		1 & 2 Span	3 Span	4 Span	Max. Cantilever
5	7'-6" d	9'-3" d	9'-5" d	1'-4" d	5	9'-8" d	11'-11" d	12'-2" b	1'-9" d
6	7'-0" d	8'-8" d	8'-8" b	1'-3" d	6	9'-1" d	11'-3" d	11'-1" b	1'-8" d
7	6'-8" d	8'-3" d	8'-1" b	1'-3" d	7	8'-8" d	10'-8" b	10'-3" b	1'-7" d
8	6'-5" d	7'-9" b	7'-6" b	1'-2" d	8	8'-3" d	9'-11" b	9'-7" b	1'-6" d
9	6'-2" d	7'-4" b	7'-1" b	1'-1" d	9	7'-11" d	9'-5" b	9'-1" b	1'-5" d
10	5'-11" d	6'-11" b	6'-9" b	1'-1" d	10	7'-8" d	8'-11" b	8'-7" b	1'-5" d
11	5'-9" d	6'-8" b	6'-5" b	1'-1" d	11	7'-5" d	8'-6" b	8'-2" b	1'-4" d
12	5'-7" d	6'-4" b	6'-2" b	1'-0" d	12	7'-3" d	8'-1" b	7'-10" b	1'-4" d

Notes:

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

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SECTION 1

SCREENED ENCLOSURES

Table 1.1 120 Allowable Spans for Primary Screen Roof Frame Members

Aluminum Alloy 6063 T-6

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

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

Hollow Sections	Tributary Load Width "W" = Beam Spacing													
	3'-0"		4'-0"		5'-0"		6'-0"		7'-0"		8'-0"		9'-0"	
	Allowable Span 'L' / Point Load (P) or Uniform Load (U), bending (b), deflection (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

Self Mating Sections	Tributary Load Width "W" = Beam Spacing													
	3'-0"		4'-0"		5'-0"		6'-0"		7'-0"		8'-0"		9'-0"	
	Allowable Span 'L' / Point Load (P) or Uniform Load (U), bending (b), deflection (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

Snap Sections	Tributary Load Width "W" = Beam Spacing													
	3'-0"		4'-0"		5'-0"		6'-0"		7'-0"		8'-0"		9'-0"	
	Allowable Span 'L' / Point Load (P) or Uniform Load (U), bending (b), deflection (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.
6. Spans may be interpolated.
7. To convert spans to "C" and "D" exposure categories see exposure multipliers and example on page 1-ii.

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

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SECTION 1

SCREENED ENCLOSURES

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.

Hollow Sections	Tributary Load Width "W" = Upright Spacing													
	3'-0"		4'-0"		5'-0"		6'-0"		7'-0"		8'-0"		9'-0"	
	Allowable Height "H" / bending (b), deflection (d)													
2" x 2" x 0.044"	7'-5"	d	6'-5"	b	5'-8"	b	5'-1"	b	4'-8"	b	4'-3"	b	3'-11"	b
2" x 2" x 0.050"	7'-10"	d	7'-1"	b	6'-3"	b	5'-8"	b	5'-2"	b	4'-9"	b	4'-5"	b
2" x 2" x 0.090"	8'-11"	d	8'-2"	d	7'-10"	d	7'-1"	b	6'-7"	b	6'-1"	b	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"	b	8'-6"	b	7'-9"	b	7'-1"	b	6'-7"	b	6'-1"	b
2" x 5" x 0.062"	17'-3"	b	14'-10"	b	13'-2"	b	11'-11"	b	11'-0"	b	10'-3"	b	9'-7"	b

Self Mating Sections	Tributary Load Width "W" = Upright Spacing													
	3'-0"		4'-0"		5'-0"		6'-0"		7'-0"		8'-0"		9'-0"	
	Allowable Height "H" / bending (b), deflection (d)													
2" x 4" x 0.044 x 0.100"	11'-11"	d	10'-10"	d	10'-0"	d	9'-5"	b	8'-8"	b	8'-0"	b	7'-6"	b
2" x 5" x 0.050 x 0.100"	14'-9"	d	13'-5"	d	12'-5"	d	11'-7"	b	10'-8"	b	9'-11"	b	9'-4"	b
2" x 6" x 0.050 x 0.120"	17'-3"	d	15'-8"	d	14'-4"	b	13'-1"	b	12'-0"	b	11'-3"	b	10'-6"	b
2" x 7" x 0.055 x 0.120"	19'-8"	d	17'-6"	b	15'-7"	b	14'-2"	b	13'-1"	b	12'-2"	b	11'-5"	b
2" x 8" x 0.072 x 0.224"	24'-4"	d	22'-1"	d	20'-6"	d	19'-4"	d	18'-4"	d	17'-6"	d	16'-10"	d
2" x 9" x 0.072 x 0.224"	26'-8"	d	24'-3"	d	22'-6"	d	21'-2"	d	20'-1"	d	19'-3"	d	18'-2"	b
2" x 9" x 0.082 x 0.310"	28'-8"	d	26'-0"	d	24'-2"	d	22'-9"	d	21'-7"	d	20'-8"	d	19'-10"	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

Snap Sections	Tributary Load Width "W" = Upright Spacing													
	3'-0"		4'-0"		5'-0"		6'-0"		7'-0"		8'-0"		9'-0"	
	Allowable Height "H" / 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"	b
2" x 3" x 0.045"	8'-10"	d	8'-1"	d	7'-6"	d	6'-11"	b	6'-3"	b	5'-9"	b	5'-3"	b
2" x 4" x 0.045"	11'-2"	d	10'-2"	d	9'-2"	b	8'-2"	b	7'-5"	b	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"	d
2" x 7" x 0.062"	20'-7"	d	18'-9"	d	17'-5"	d	16'-4"	d	15'-7"	d	14'-10"	d	14'-2"	b

Notes:

1. Thicknesses shown are "nominal" industry standard tolerances. No wall thickness shall be less than 0.040".
2. Using screen panel width "W" select upright length "H".
3. Above heights do not include length of knee brace. Add vertical distance from upright to center of brace to beam connection to the above spans for total beam spans.
4. Site specific engineering required for pool enclosures over 30' in mean 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-ii.

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SECTION 1

SCREENED ENCLOSURES

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

Beam/Upright or Post	Upright or Post/Beam	Minimum Purlin, Girt & Knee Brace Size	Notes	Minimum Number of Screws*			Beam Stitching Screw at 24" OC
				#8 x 1/2"	#10 x 1/2"	#12 x 1/2"	
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 0.306"	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" wall thickness, 0.310" flange thickness

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

Connection Example:

2" x 7" beam & 2" x 5" at beam & gusset plate, (14) #8 x 1/2" sms & upright & gusset plate
(14) #8 x 1/2" sms ea. side of beam & upright.

Note:

1. Connection of 2" x 6" to 2" x 4" shall use a full lap cut or 1/16" gusset plate.
2. For beam splice connections the number of screws shown is the total for each splice with 1/2 the screws on each side of the cut.
3. The number of screws is based on the maximum allowable moment of the beam.
4. The number of deck anchors is based on RAWL R Tapper allowable load data for 2,500 psi concrete and / or equal anchors may be used. The number shown is the total use 1/2 per side.
5. Hollow splice connections can be made provided the connection is approved by the engineer.
6. If a larger than minimum upright is used the number of screws is the same for each splice with 1/2 the screws on each side of 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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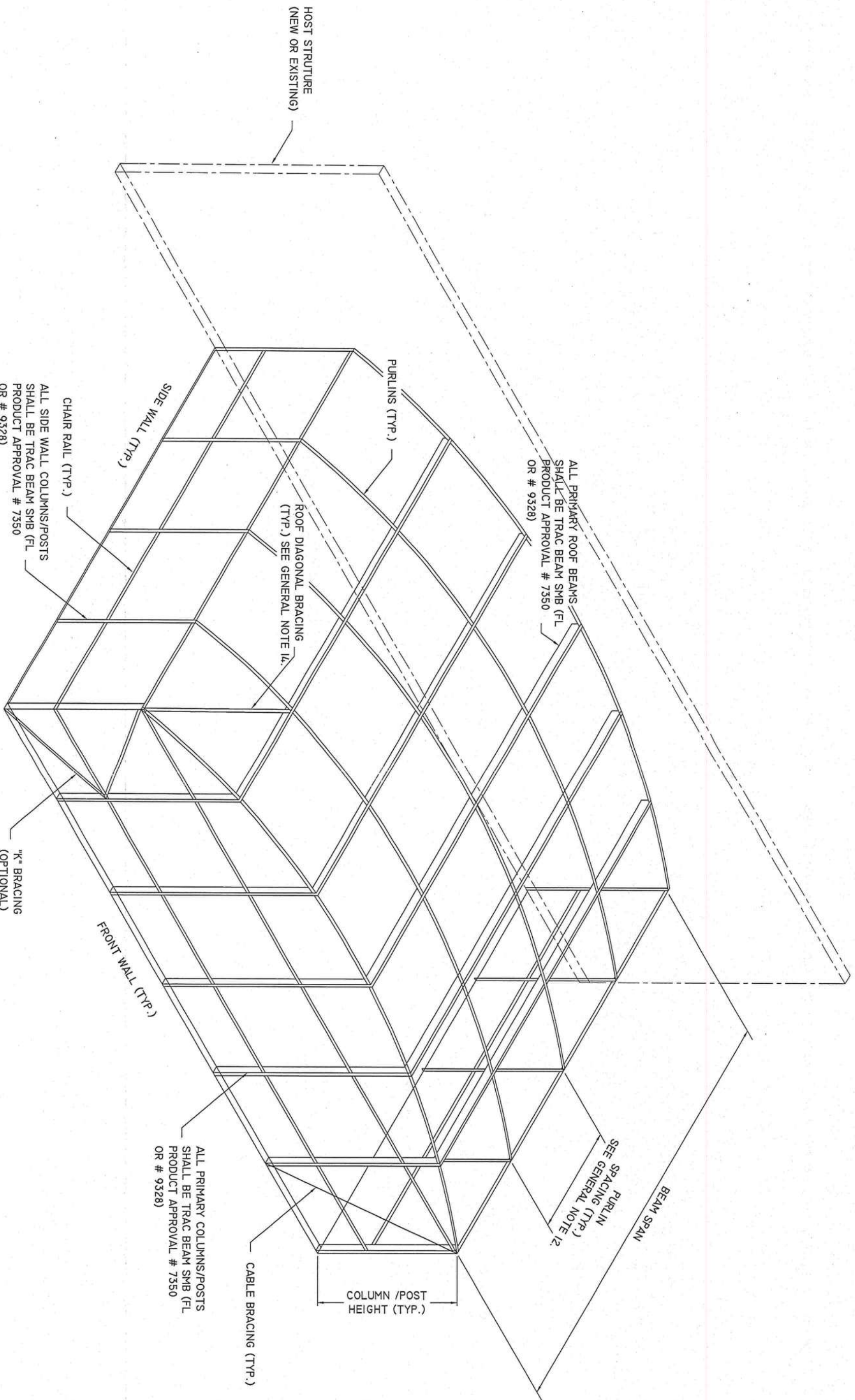
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Rev/Date	Description
1/2008	ISSUED

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Screen Enclosure Details

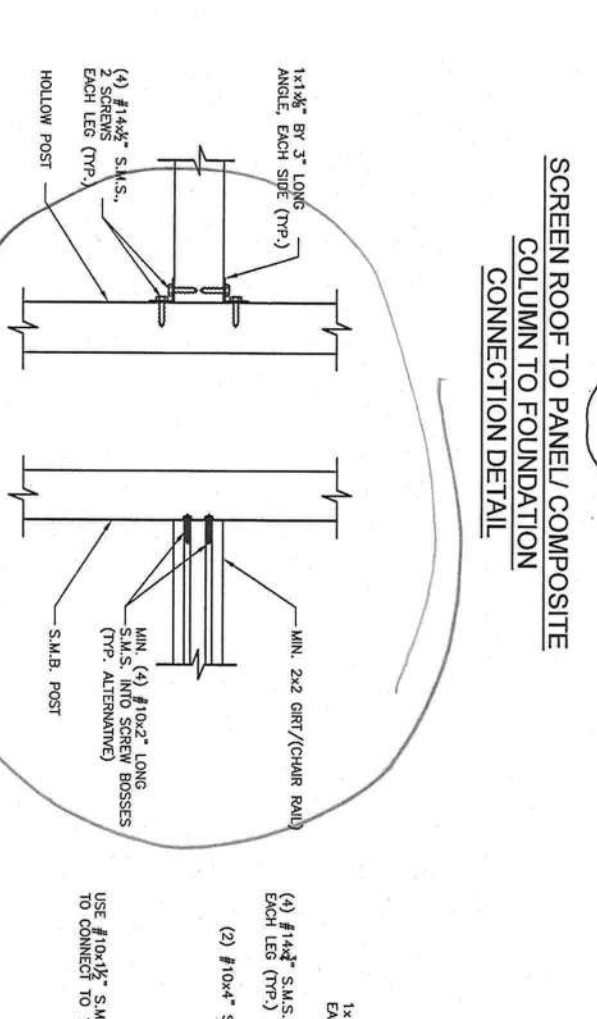
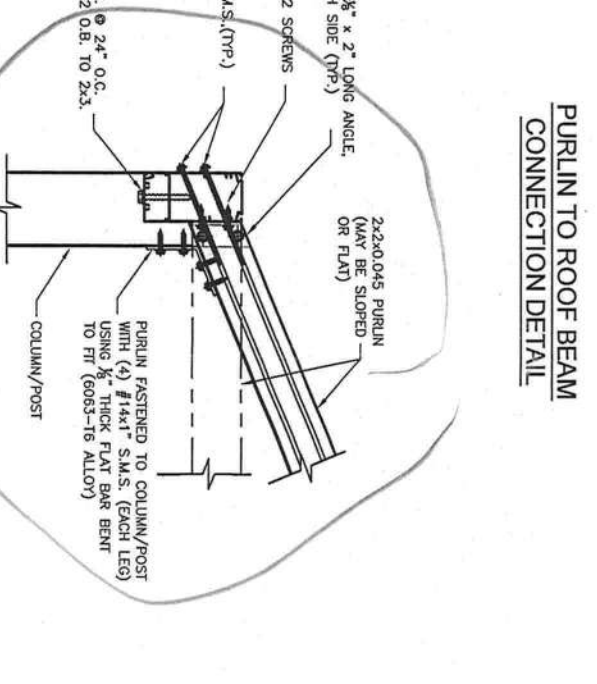
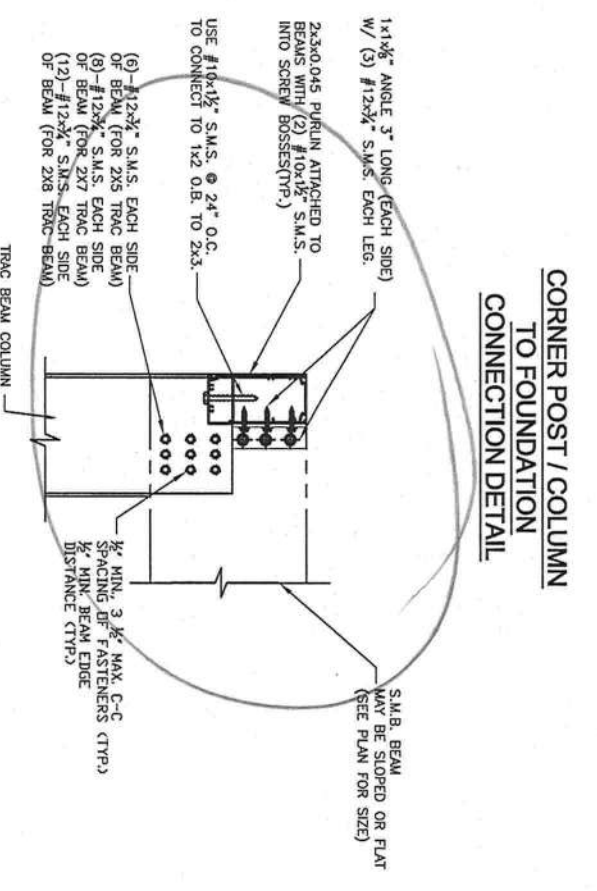
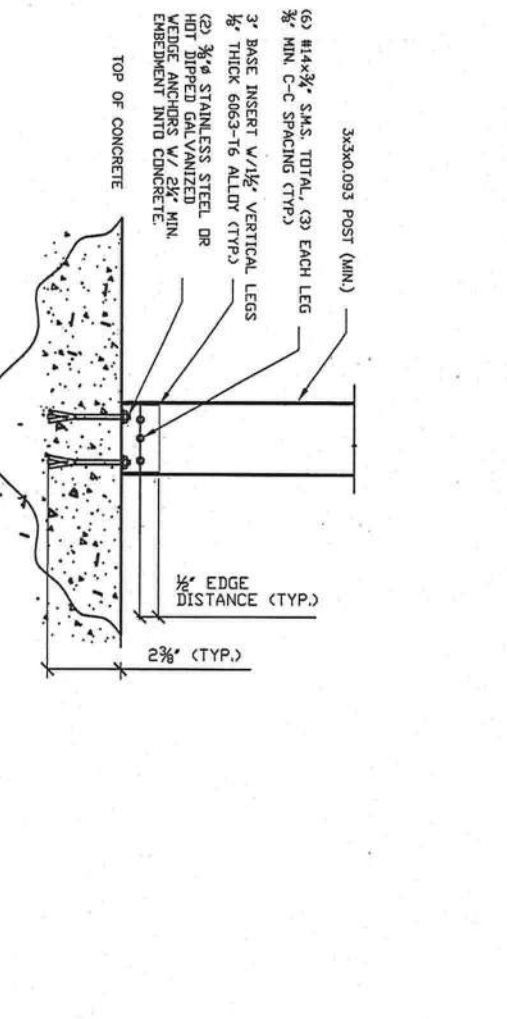
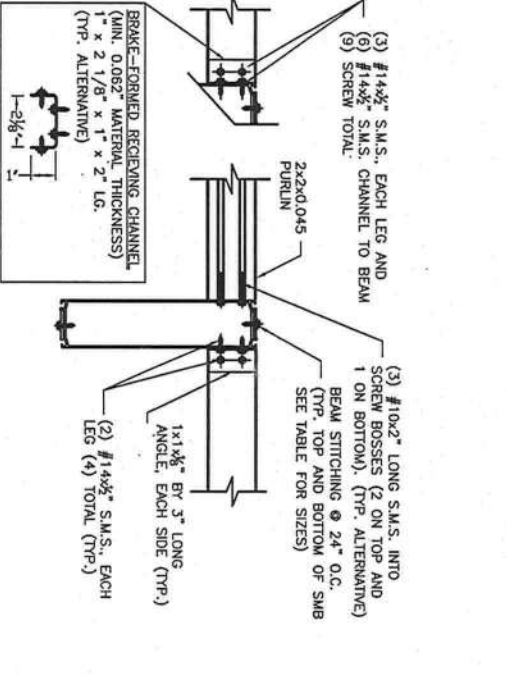
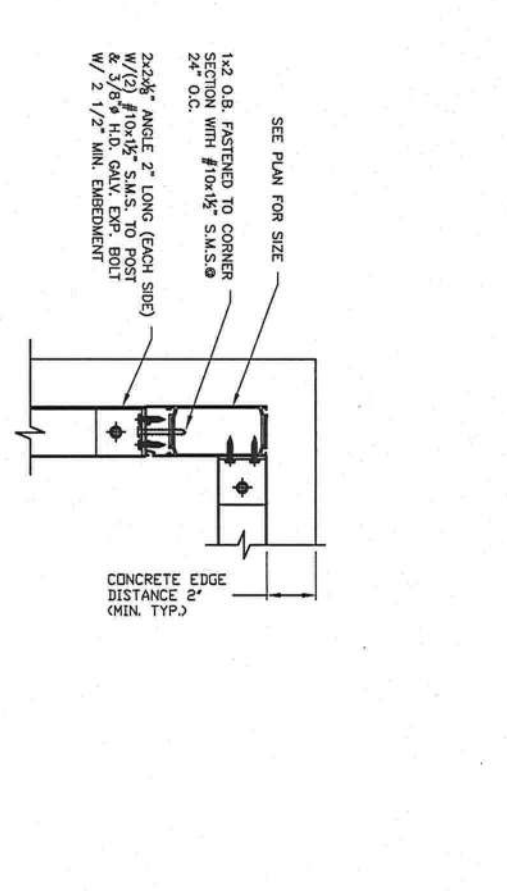
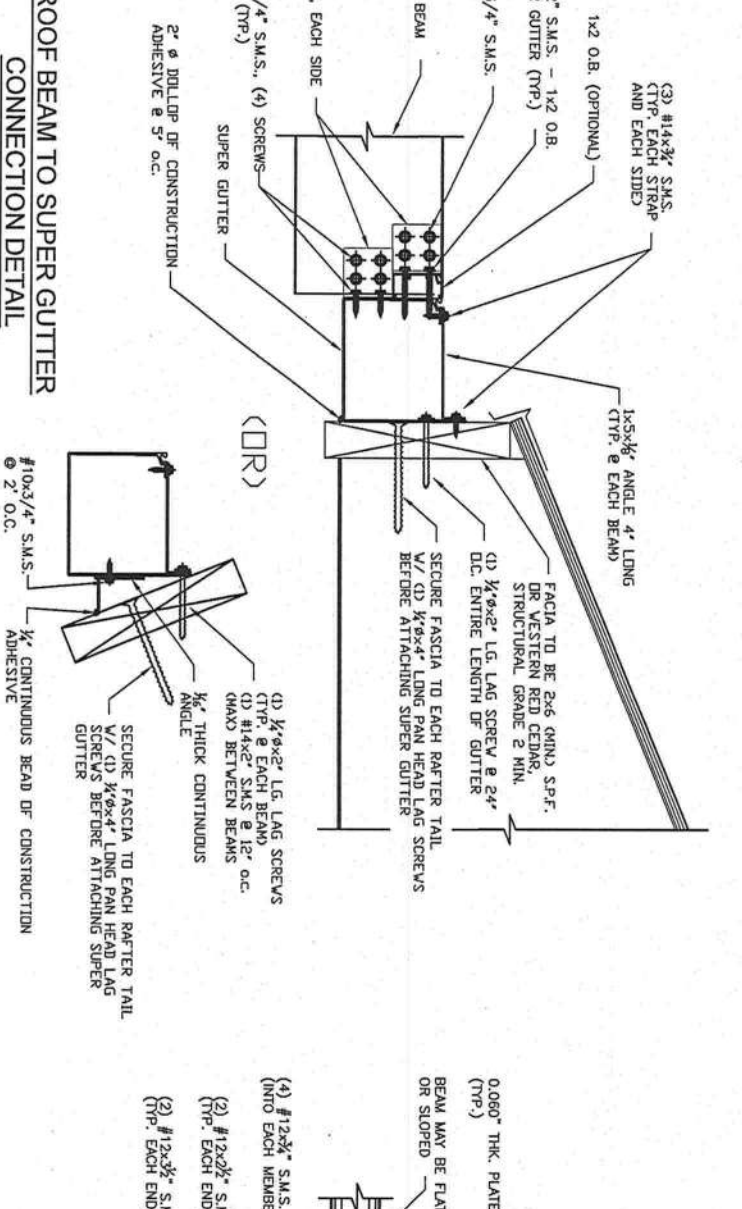
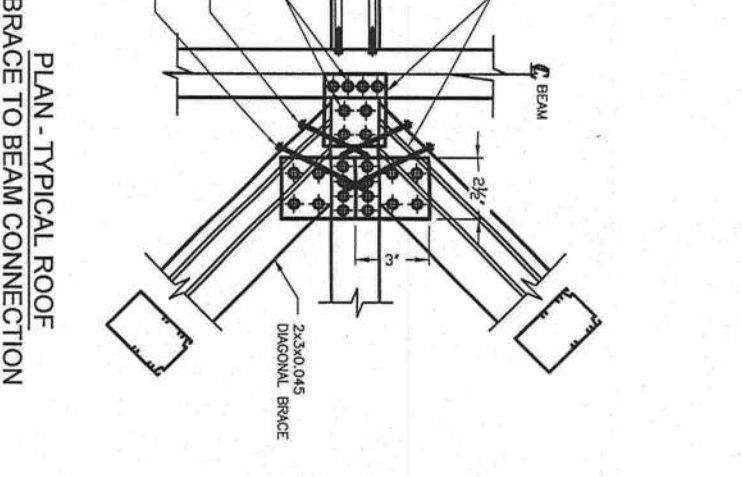
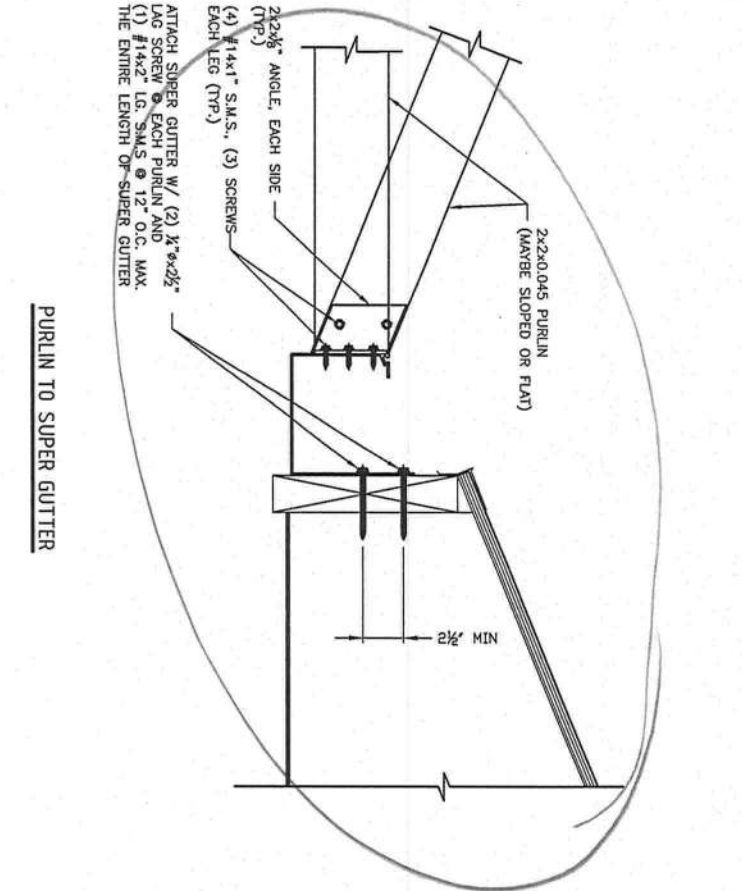
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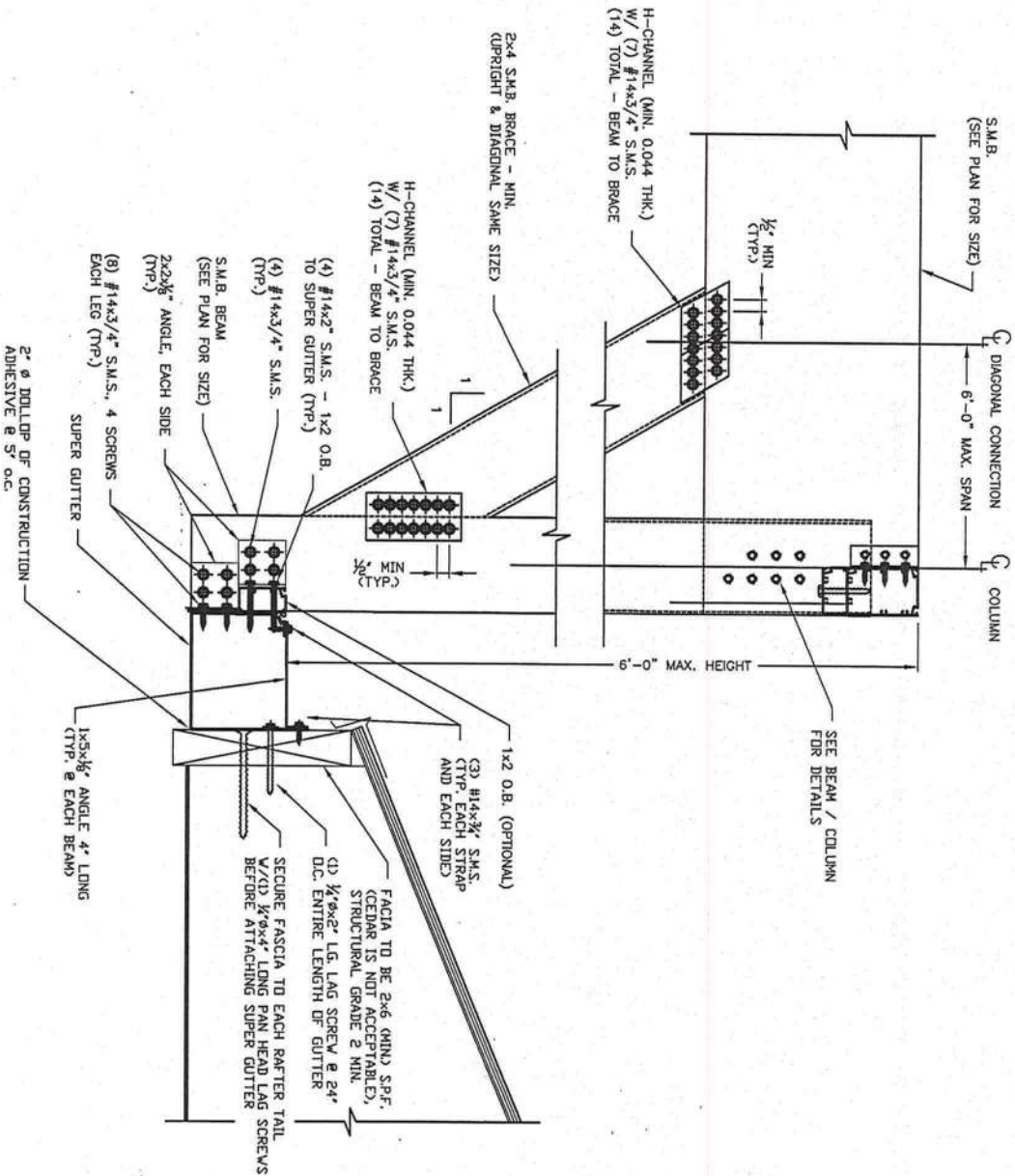
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FLA. REG. NUMBER 49497
DO KIM & ASSOCIATES, L.L.C.
3800 HENDERSON BLVD.,
SUITE 106
TAMPA, FL 33604



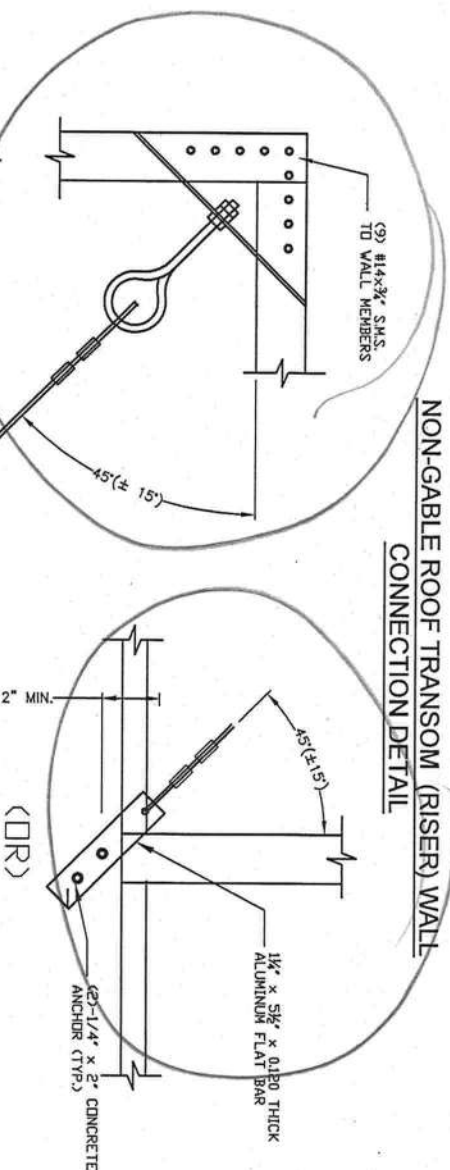
TYPICAL DOME ROOF

NOTE: Sketch is only a representation of a Dome Style Enclosure.
Contractor shall provide detailed layout drawings.

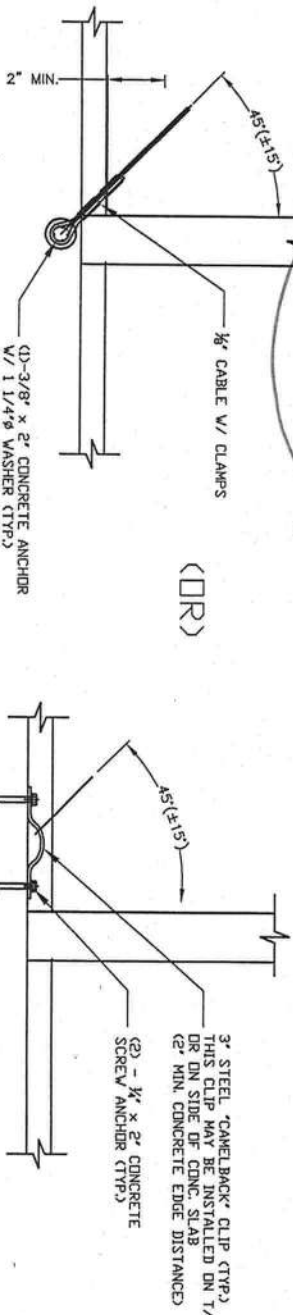




NON-CABLE ROOF TRANSOM (RISER) WALL CONNECTION DETAIL



(OR)



CABLE BRACE DETAIL

General Notes and Specifications:

- Contractor shall field verify all dimensions before construction and shall notify engineer of discrepancies for immediate consideration.
- Concrete shall be minimum 28 day compressive strength of $f'c=2500$ psi, and be in accordance with the requirements of ACI 318.
- Reinforcing steel shall have a min. yield strength of 40,000 psi (grade 40) and be provided with cover in accordance with ACI 318.
- All dimensions are provided by contractor, DO Kim & Associates, LLC have made interpretations where necessary.
- The following structures are designed to be attached to block and wood frame structures of adequate structural capacity. The contractor shall verify that the host structure is in good condition and of sufficient strength to hold the proposed addition. If there is a question about the host structure, the owner (at his own expense) shall hire an architect or engineer to verify host structure capacity.
- Screen density shall be a maximum of $18 \times 14 \times 0.013$ mesh.
- Connections using screw bosses shall have minimum (4)-#10x2\"/>

C-1022 Low Carbon Steel SMS & Self-Drilling (ITEK) Screws (Industry Standard Screws)			
Screw	Nominal Screw Diameter (in)	Minimum Edge Distance	Minimum Center to Center Distance
#10	0.188	5/16"	3/8"
#12	0.219	3/8"	9/16"
#14 (1/4")	0.250	3/8"	5/8"

- Structure has been designed to meet the 2004 FBC with 2006 supplements. Project is sited where the basic wind speed is 120 mph (3-sec gust). $I=0.77$ for screen enclosures. Exposure B. Design wind pressures are from 2004 FBC. Minimum design pressure is 10 psf. Pressures are based on wind tunnel testing with main wind force resisting system coefficient, G_{rf} , of ± 0.25 for screen roof and 0.7-1.25 for walls.
- All concrete anchors shall be Simpson Strong-Tie Wedge All Anchors or Titan Screws or approved equal.
- Composite panel or riser panel metal shall be of aluminum alloy 3105-H15 or 3105-H25.
- Maximum spacing of Purlins shall be less than 8'-0\"/>

MAXIMUM SPANS FOR CARRIER BEAMS (SUPPORTING SCREEN ROOF ONLY)

BEAM	TRIBUTARY WIDTH			
	10'	15'	20'	25'
2X5 TRAC	23.5'	19.8'	17.0'	15.0'
2X7 TRAC	25.7'	22.3'	20.1'	18.1'
2X8 TRAC	40.0'	34.3'	29.6'	26.8'

Design wind speed up to 120 mph. Exposure B.

Rev/Date	Description
605 2008	ISSUED

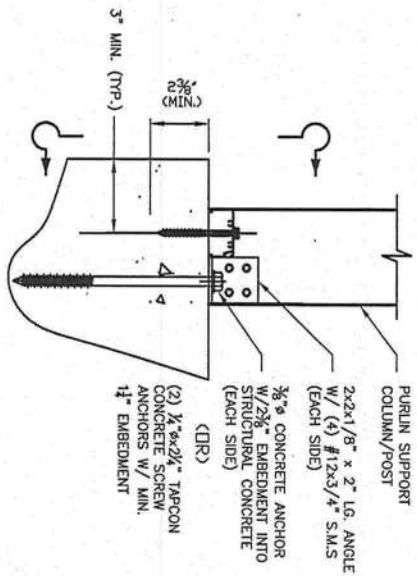
3300 Henderson Blvd, Suite 1
Tampa, FL 33609
Tel: (813) 874-5900
Fax: (813) 874-5959

DO KIM
& ASSOCIATES, L
CONSULTING
STRUCTURAL
ENGINEERS

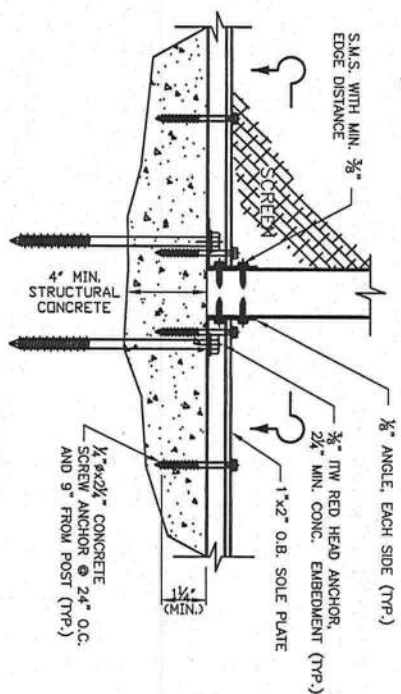
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DESCRIPTION:
Screen Enclosure Details

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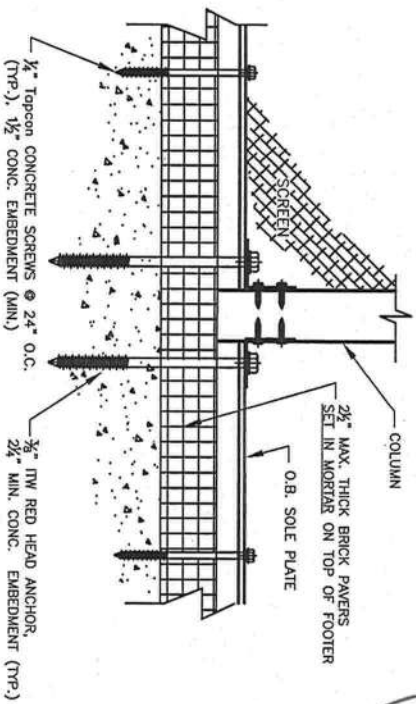
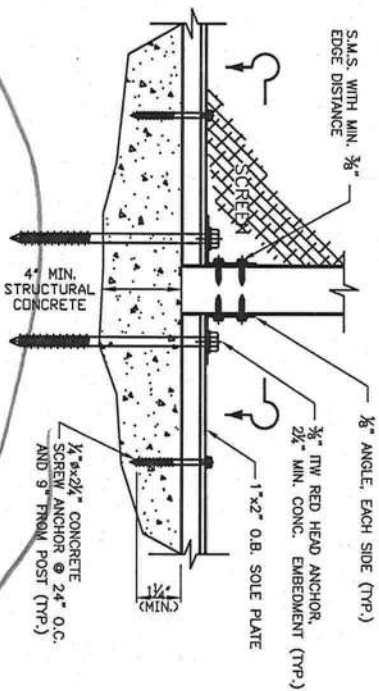
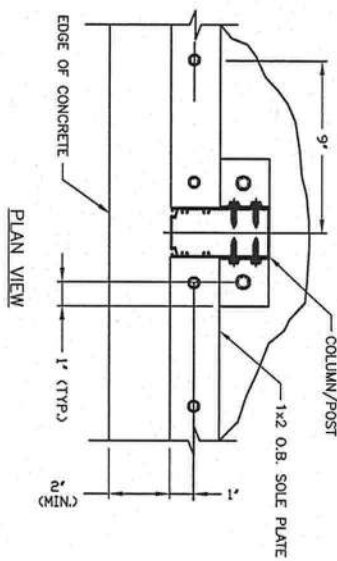
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SUITE 100
TAMPA, FL 33609
Tel: (813) 874-5900
Fax: (813) 874-5959



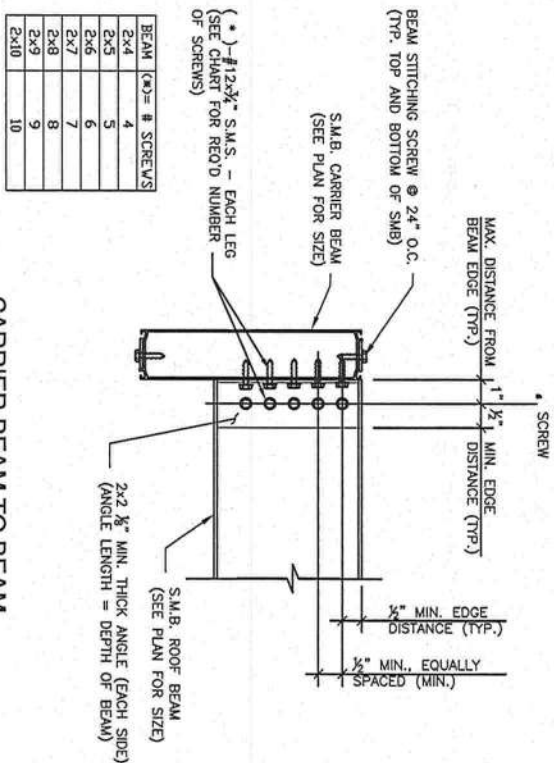
SIDEWALL COLUMN TO FOUNDATION CONNECTION DETAIL



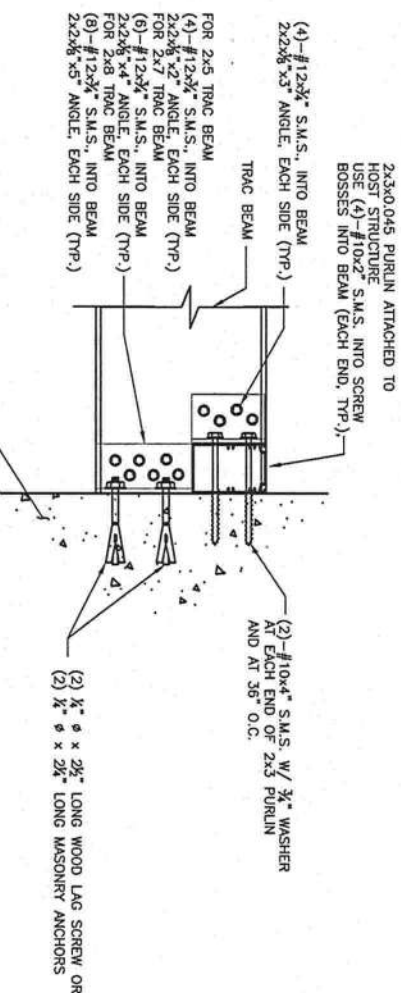
MAIN COLUMN TO FOUNDATION CONNECTION DETAIL



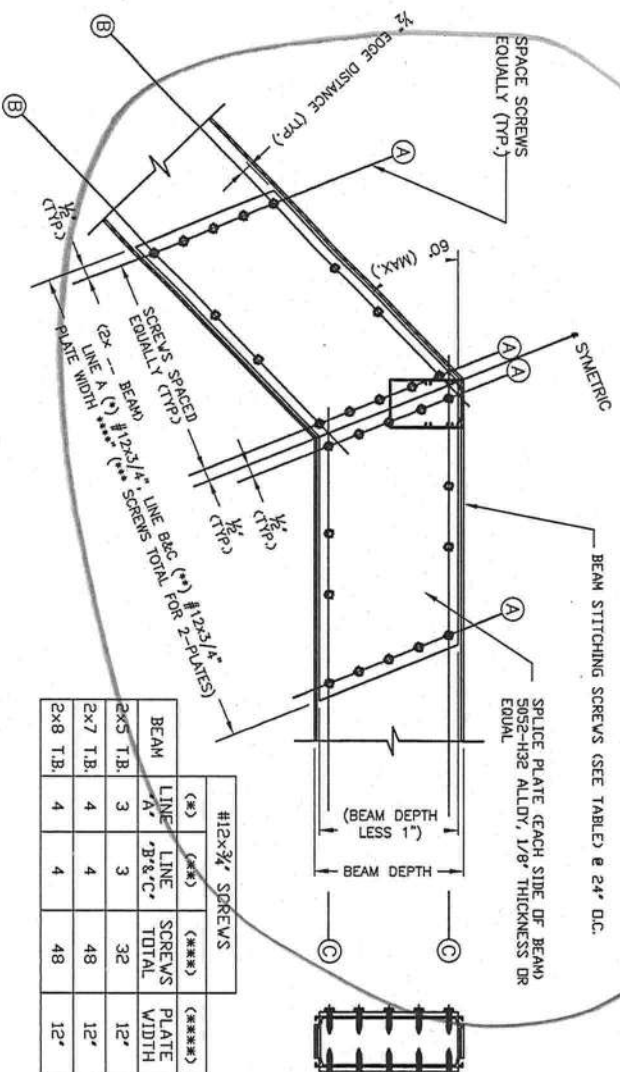
TYPICAL FRONT VIEW OF POST TO FOUNDATION CONNECTION WITH PAVERS



CARRIER BEAM TO BEAM CONNECTION DETAIL



BEAM TO HOST STRUCTURE DETAIL



MANSARD ROOF BEAM CONNECTION DETAIL

BEAM	LINE	LINE	SCREWS	PLATE
2x3 T.B.	3	3	32	12"
2x7 T.B.	4	4	48	12"
2x8 T.B.	4	4	48	12"

DO KIM & ASSOCIATES, L
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ENGINEERS

3300 Henderson Blvd., Suite
Tampa, FL 33609
Tel: (813) 874-5900
Fax: (813) 874-5959

Rev/Date	Description
605 2008	ISSUED

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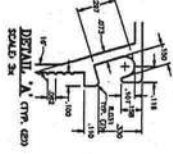
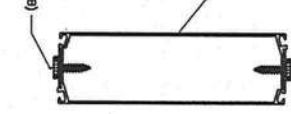
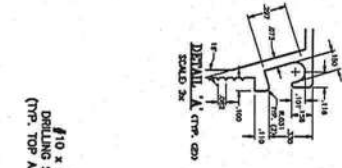
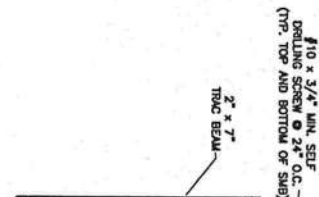
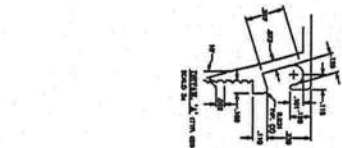
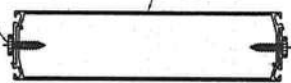
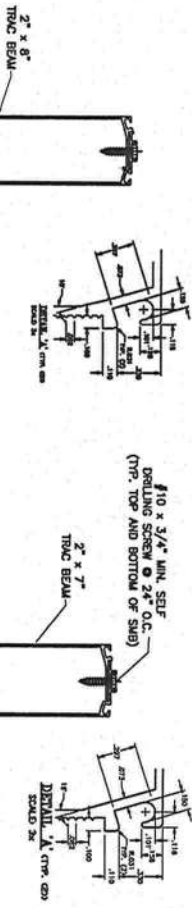
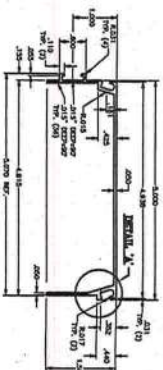
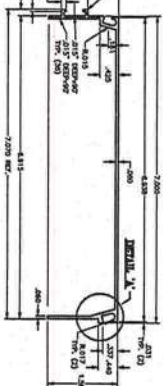
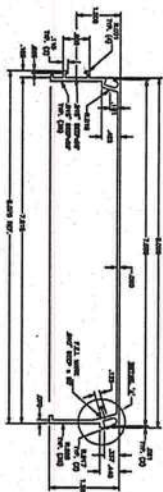
CLIENT: Florida Pool Enclosures, INC
DESCRIPTION:
Screen Enclosure Details

DRAWN BY:	DVK
CHECKED BY:	DVK
SCALE:	AS SHOWN
DATE:	9/05/06

DO YEON KIM, P.E.
FLA. REG. NUMBER 4949
DO KIM & ASSOCIATES, LL
CA# 26887
3300 HENDERSON BLVD.
SUITE 109
TAMPA, FL 33609

Drawing No. - 0609C

Pool Enclosure Collective, LLC
Trac Beam (FL State Product Approval #7350 & #9328)



#10 x 3/4" UN, SELF
DRILLING SCREW @ 24" O.C.
(TOP, TOP AND BOTTOM OF SUG)

2" x 8" TRAC SELF-MATING BEAM (SHB)
[patent pending]

2" x 7" TRAC SELF-MATING BEAM (SHB)
[patent pending]

2" x 5" TRAC SELF-MATING BEAM (SHB)
[patent pending]

- Trac Beam Notes:
1. Refer to Florida Product Approval #FL7350 & #FL9328 for project specific requirements to be used by design professional.
 2. Drawings are illustrative purposes only.
 3. Tables developed from loads in FL9328 tables which are allowable working loads and may be used without any additional reductions. Spans are based on ten feet well height. For well heights exceeding ten feet, allowable column spans shall be reduced 7% for each five feet increment.
 4. Allowable point loads and deflections are converted to allowable uniform loads and deflections using analytic and comparative 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. Consult a licensed design professional for use of this product information.
 7. Maximum allowable deflections limits of L/60 shall be considered by design professional. L/80 in HMHZ.

2x8 TRAC SPAN (COLUMN HEIGHT)					
BEAM TO BEAM SPACING (f-t)	110 mph	120 mph	130 mph	140 mph	150 mph
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' D.C.	28.7'	27.8'	26.7'	24.9'	23.5'
8' D.C.	27.8'	26.5'	25.2'	23.4'	21.8'

2x8 TRAC BEAM CLEAR SPAN (FLAT ROOF)					
BEAM TO BEAM SPACING (f-t)	110 mph	120 mph	130 mph	140 mph	150 mph
5' D.C.	40.0'	40.0'	40.0'	40.0'	36.0'
6' D.C.	40.0'	40.0'	40.0'	37.0'	35.0'
7' D.C.	40.0'	40.0'	38.0'	35.5'	34.0'
8' D.C.	40.0'	38.0'	36.0'	34.2'	32.0'

2x8 TRAC BEAM SPAN (MANSARD ROOF)					
BEAM TO BEAM SPACING (f-t)	110 mph	120 mph	130 mph	140 mph	150 mph
5' D.C.	52.0'	52.0'	52.0'	52.0'	47.0'
6' D.C.	52.0'	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'

2x5 TRAC BEAM (ROOF BEAM SPAN)					
BEAM TO BEAM SPACING (f-t)	110 mph	120 mph	130 mph	140 mph	150 mph
5' D.C.	25'	25'	25'	24.12'	23.27'
6' D.C.	25'	25'	25'	23.06'	22.12'
7' D.C.	25'	25'	23.51'	22.16'	21.33'
8' D.C.	25'	25'	22.94'	21.36'	20.35'

2x5 TRAC BEAM (COLUMN HEIGHT)					
BEAM TO BEAM SPACING (f-t)	110 mph	120 mph	130 mph	140 mph	150 mph
5' D.C.	20.31'	19.00'	17.01'	15.00'	13.33'
6' D.C.	18.57'	17.00'	14.57'	13.07'	12.28'
7' D.C.	16.89'	15.00'	13.00'	12.15'	11.24'
8' D.C.	15.11'	13.52'	12.28'	11.13'	10.12'

2x7 TRAC BEAM (ROOF BEAM SPAN)					
BEAM TO BEAM SPACING (f-t)	110 mph	120 mph	130 mph	140 mph	150 mph
5' D.C.	37.82'	37.62'	34.63'	31.23'	28.00'
6' D.C.	35.18'	35.01'	31.23'	27.37'	23.61'
7' D.C.	32.65'	32.43'	28.00'	23.48'	23.05'
8' D.C.	30.00'	29.82'	24.76'	23.21'	22.61'

2x7 TRAC BEAM (COLUMN HEIGHT)					
BEAM TO BEAM SPACING (f-t)	110 mph	120 mph	130 mph	140 mph	150 mph
5' D.C.	23.04'	22.42'	21.48'	20.53'	19.59'
6' D.C.	22.22'	21.47'	20.34'	19.21'	18.08'
7' D.C.	21.41'	20.53'	19.20'	17.80'	16.68'
8' D.C.	20.55'	19.59'	18.08'	16.58'	15.08'

DO KIM
& ASSOCIATES, LLC
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Rev/Date	Description
6/05 2008	ISSUED

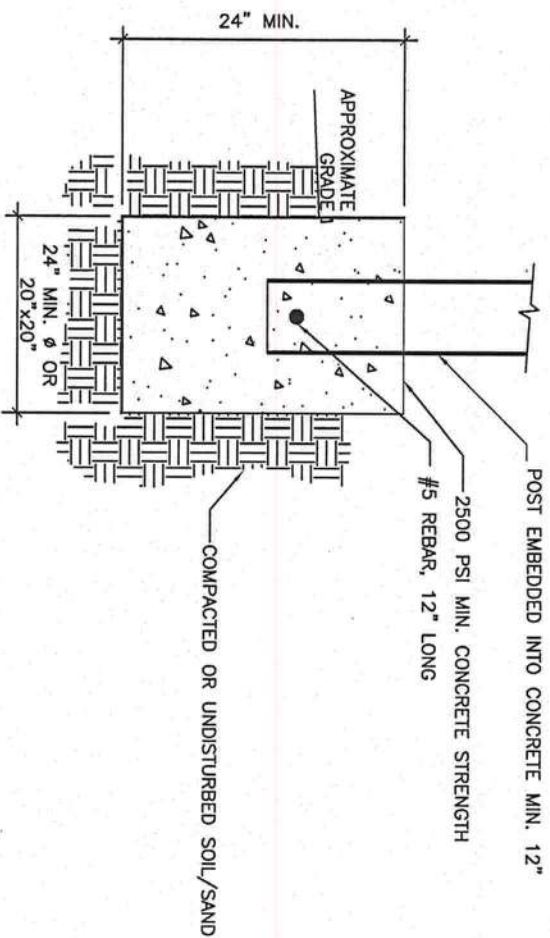
CLIENT: Florida Pool Enclosures, INC
DESCRIPTION:
Screen Enclosure Details

DRAWN BY:	DYK
CHECKED BY:	DYK
SCALE:	AS SHOWN
DATE:	9/05/08

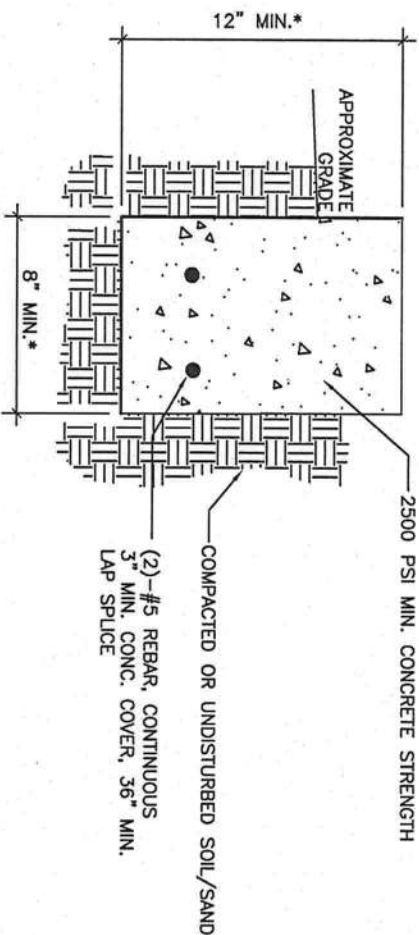
DO YEON KIM, P.E.
FLA. REG. NUMBER 49497

DO KIM & ASSOCIATES, LLC
C/A# 26887

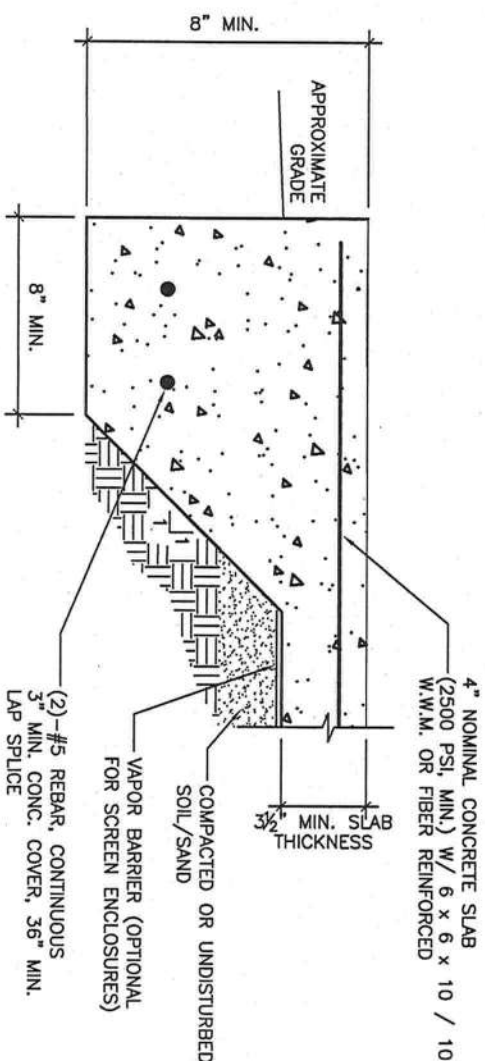
3300 HENDERSON BLVD.,
SUITE 106
TAMPA, FL 33609



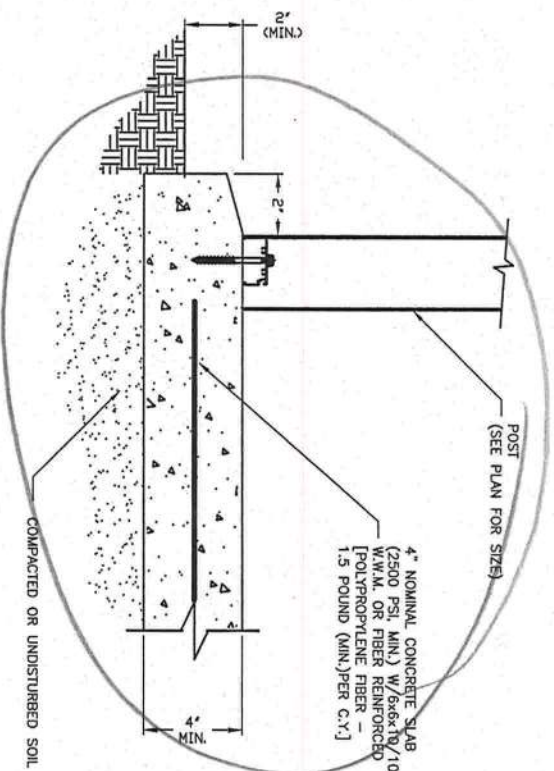
STANDARD TYP. ISOLATED FOOTER



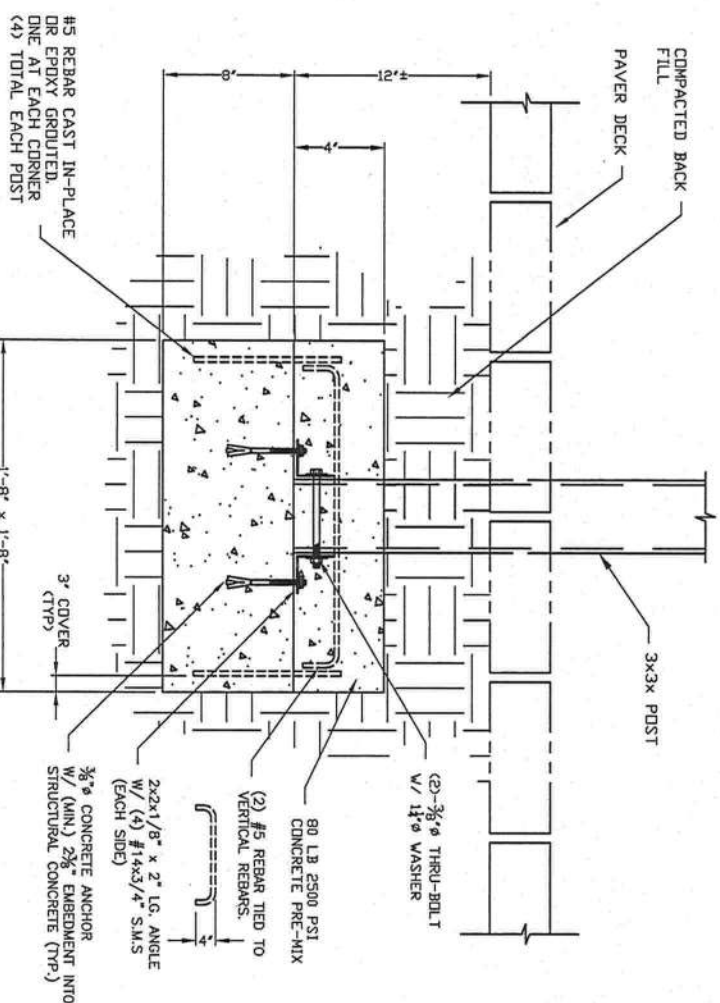
STANDARD TYP. CONTINUOUS PERIMETER FOOTING
(MAX. POOL ENCLOSURE ROOF SPAN OF 50')



STANDARD TYP. TURNDOWN SLAB FOOTING
(MAX. POOL ENCLOSURE ROOF SPAN OF 50')



POST / CONCRETE SLAB DETAIL
(MAX. POOL ENCLOSURE ROOF SPAN OF 40')



POST FOR CARRIER BEAM TO BURIED FOOTING CONNECTION DETAIL

DO KIM
& ASSOCIATES, LLC
CONSULTING
STRUCTURAL
ENGINEERS

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Tampa, FL 33609
Tel: (813) 874-5800
Fax: (813) 874-5959

Rev	Date	Description
605	2008	ISSUED
604		
603		
602		
601		

CLIENT: Florida Pool Enclosures, INC
DESCRIPTION:
Screen Enclosure Details

DRAWN BY:	DYK
CHECKED BY:	DYK
SCALE:	AS SHOWN
DATE:	9/05/08

DO YEON KIM, P.E.
FLA. REG. NUMBER 49497

DO KIM & ASSOCIATES, LLC

3300 HENDERSON BLVD.,
SUITE 106
TAMPA, FL 33604

Drawing No. - 060905

SHEET 6 OF 7

Rev/Date	Description
605 2008	ISSUED

CLIENT: Florida Pool Enclosures, INC
DESCRIPTION:
Screen Enclosure Details

DRAWN BY:	DYK
CHECKED BY:	DYK
SCALE:	AS SHOWN
DATE:	9/05/06

DO YEON KIM, P.E.
FLA. REG. NUMBER 49497

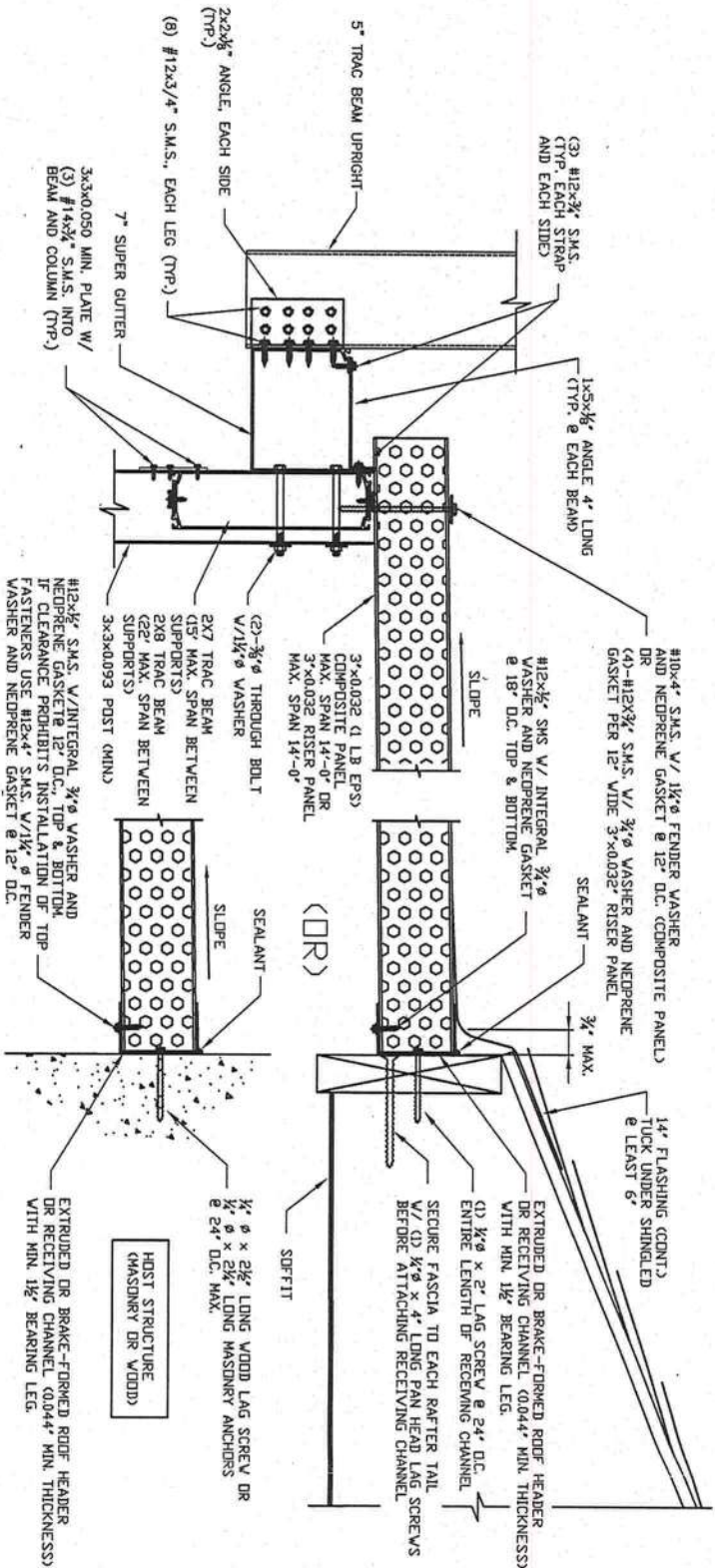
DO KIM & ASSOCIATES, LLC

CA# 28887

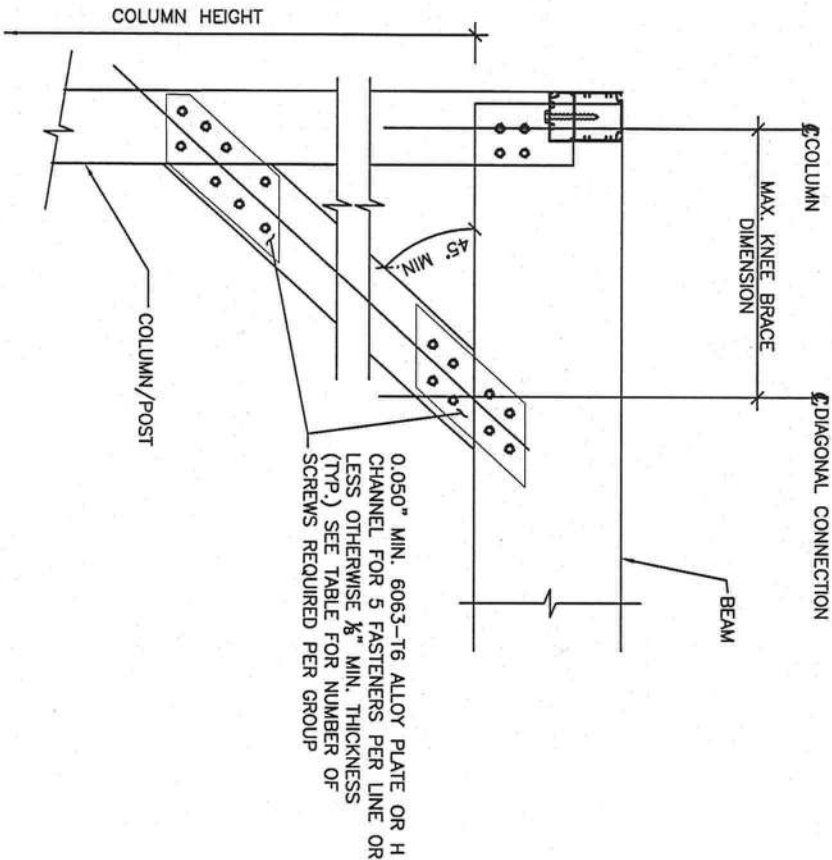
3300 HENDERSON BLVD.,

SUITE 106

Tampa, FL 33604



SCREEN ROOF TO
PANEL OR COMPOSITE ROOF
CONNECTION DETAIL



TYP. FRONT WALL KNEE BRACE CONNECTION DETAIL

KNEE BRACE SECTION	MAX. LENGTH	#10x2\" S.M.S.
2\"x2\"x0.044\" HOLLOW	36 INCHES	3
2\"x3\"x0.045\" HOLLOW	44 INCHES	4
2\"x4\"x0.050 HOLLOW	50 INCHES	5
2\"x4\"x0.046x0.100 SMB	62 INCHES	6