

Florida Pool Enclosures

922 Hickory St.
Altamonte Springs, FL
407-260-2800
fax 407-260-6411

Job # 13521

Project Address:
Charles Henderson
281 S.W. Huntington Glen
Lake City, FL 32024

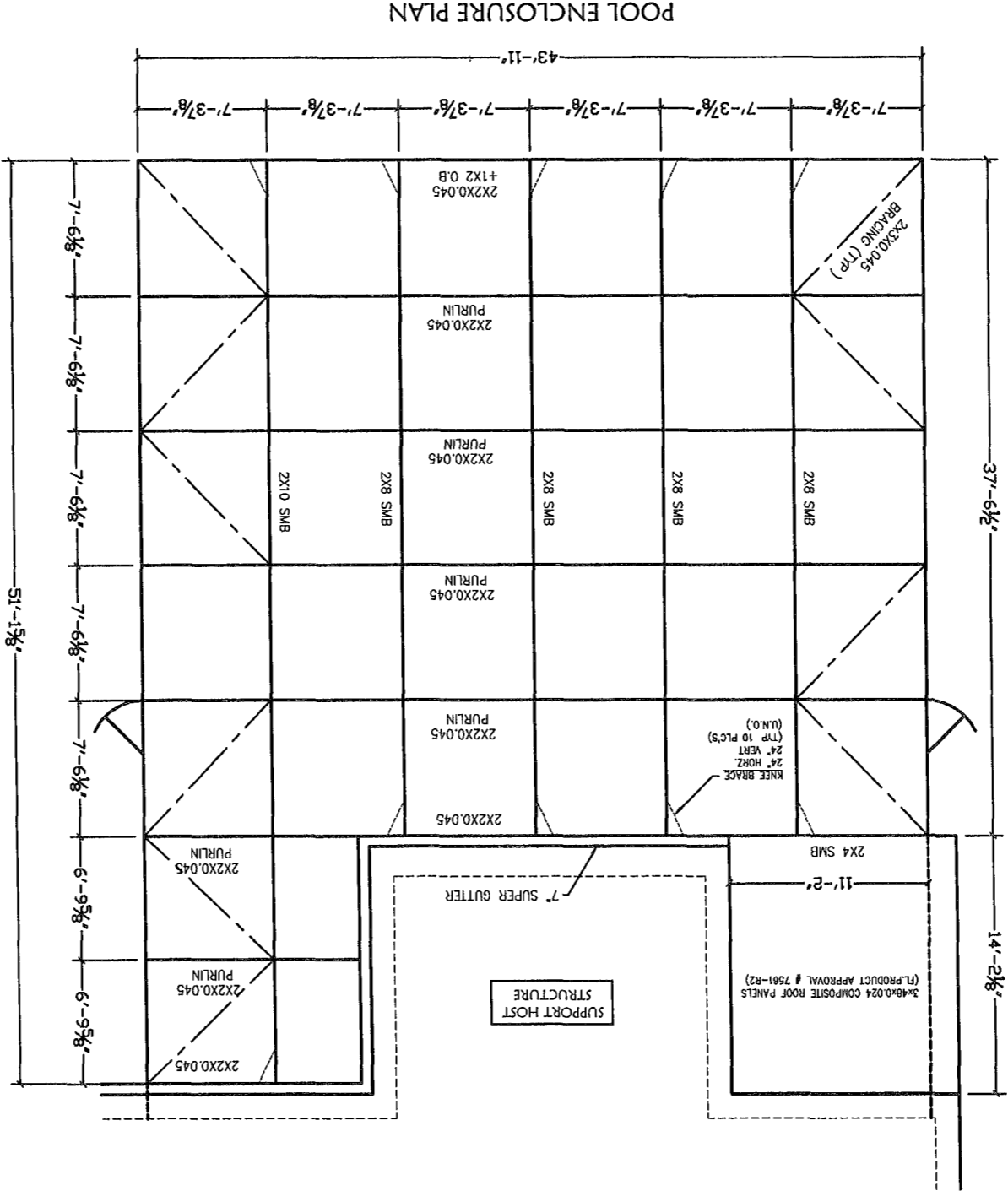
prepared by: Allen Thompson

date: 09/17/13 scale: NTS

tax district:

Structural Concepts & Design, LLC

The locations of doors are incidental to the design.
Girts remain the same throughout the design unless otherwise noted.
Dimensions are to center of walls and members.
Length given for knee braces represents horizontal and vertical displacements.



SCREEN AREA 1971 SQ.FT

13521
Charles Henderson
281 S.W. Huntington Glen
Lake City, FL 32024



Florida Pool Enclosures

922 Hickory St.
Altamonte Springs, FL
407-260-2800
fax 407-260-6411

Project Address:
Charles Henderson
281 S.W. Huntington Glen
Lake City, FL 32024

Job # 13521

tax
district:

date: 09/17/13

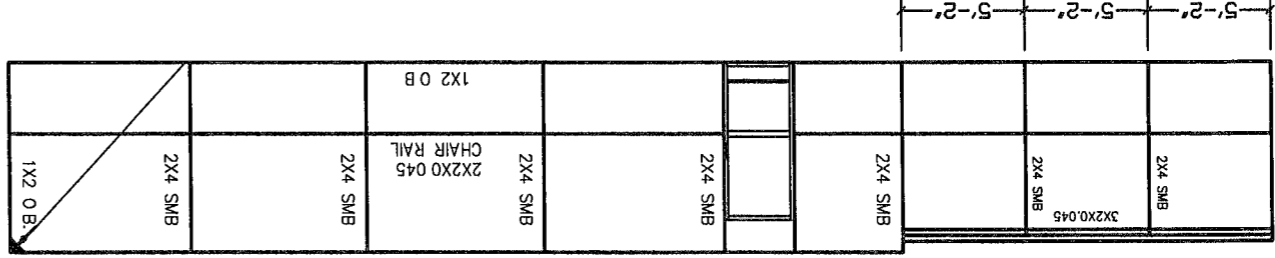
scale: NTS

prepared by: Allen Thompson

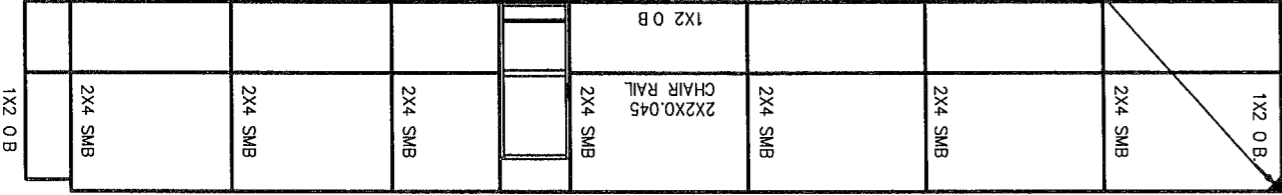
Structural Concepts & Design, LLC

The locations of doors are incidental to the design.
Girts remain the same throughout the design unless otherwise noted.
Dimensions are to center of walls and members.
Length given for knee braces represents horizontal and vertical displacements.

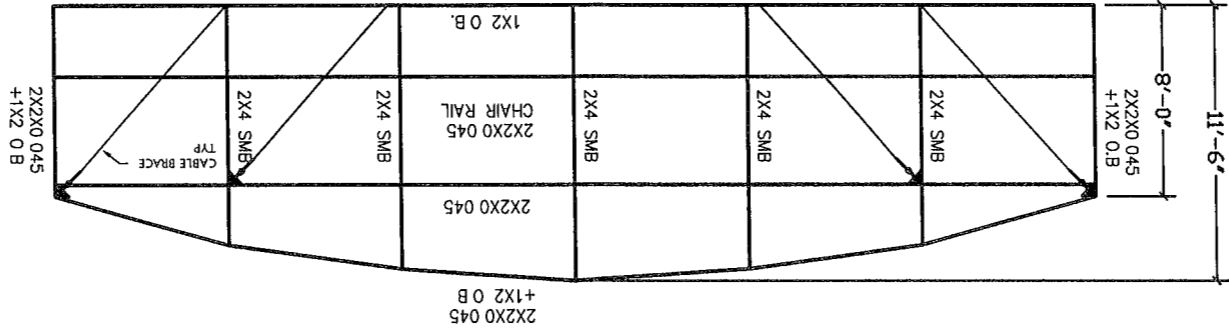
LEFT FRAMING ELEVATION



RIGHT FRAMING ELEVATION



FRONT FRAMING ELEVATION



1 SPANS MAY BE INTERPOLATED BUT NOT EXTRAPOLATED.

MEMBER	2x4 SMB	2x6 SMB	2x8 SMB	2x10 SMB	2x12 SMB	2x14 SMB	2x16 SMB	2x18 SMB	2x20 SMB	2x22 SMB	2x24 SMB	2x26 SMB	2x28 SMB	2x30 SMB	2x32 SMB	2x34 SMB	2x36 SMB	2x38 SMB	2x40 SMB
TRIBUTARY WIDTH (FT.)	4.0	4.5	5.0	5.5	6.0	6.5	7.0	7.5	8.0	8.5	9.0	9.5	10.0	10.5	11.0	11.5	12.0	12.5	13.0
EFFECTIVE SPAN (FT.)	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5

1 SPANS MAY BE INTERPOLATED BUT NOT EXTRAPOLATED.

MEMBER	2x4 SMB	2x6 SMB	2x8 SMB	2x10 SMB	2x12 SMB	2x14 SMB	2x16 SMB	2x18 SMB	2x20 SMB	2x22 SMB	2x24 SMB	2x26 SMB	2x28 SMB	2x30 SMB	2x32 SMB	2x34 SMB	2x36 SMB	2x38 SMB	2x40 SMB
TRIBUTARY WIDTH (FT.)	4.0	4.5	5.0	5.5	6.0	6.5	7.0	7.5	8.0	8.5	9.0	9.5	10.0	10.5	11.0	11.5	12.0	12.5	13.0
EFFECTIVE SPAN (FT.)	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5

1 THIS TABLE APPLIES TO BEARING & NON-BEARING WALLS FOR HORIZONTAL WIND LOADS IN DESIGN.

2 HEIGHTS MAY BE INTERPOLATED BUT NOT EXTRAPOLATED.

MEMBER	2x4 SMB	2x6 SMB	2x8 SMB	2x10 SMB	2x12 SMB	2x14 SMB	2x16 SMB	2x18 SMB	2x20 SMB	2x22 SMB	2x24 SMB	2x26 SMB	2x28 SMB	2x30 SMB	2x32 SMB	2x34 SMB	2x36 SMB	2x38 SMB	2x40 SMB
TRIBUTARY WIDTH (FT.)	4.0	4.5	5.0	5.5	6.0	6.5	7.0	7.5	8.0	8.5	9.0	9.5	10.0	10.5	11.0	11.5	12.0	12.5	13.0
EFFECTIVE HEIGHT (FT.)	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0

1 SPANS MAY BE INTERPOLATED BUT NOT EXTRAPOLATED.

MEMBER	2x4 SMB	2x6 SMB	2x8 SMB	2x10 SMB	2x12 SMB	2x14 SMB	2x16 SMB	2x18 SMB	2x20 SMB	2x22 SMB	2x24 SMB	2x26 SMB	2x28 SMB	2x30 SMB	2x32 SMB	2x34 SMB	2x36 SMB	2x38 SMB	2x40 SMB
TRIBUTARY WIDTH (FT.)	4.0	4.5	5.0	5.5	6.0	6.5	7.0	7.5	8.0	8.5	9.0	9.5	10.0	10.5	11.0	11.5	12.0	12.5	13.0
EFFECTIVE SPAN (FT.)	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0

1 SPANS MAY BE INTERPOLATED BUT NOT EXTRAPOLATED.

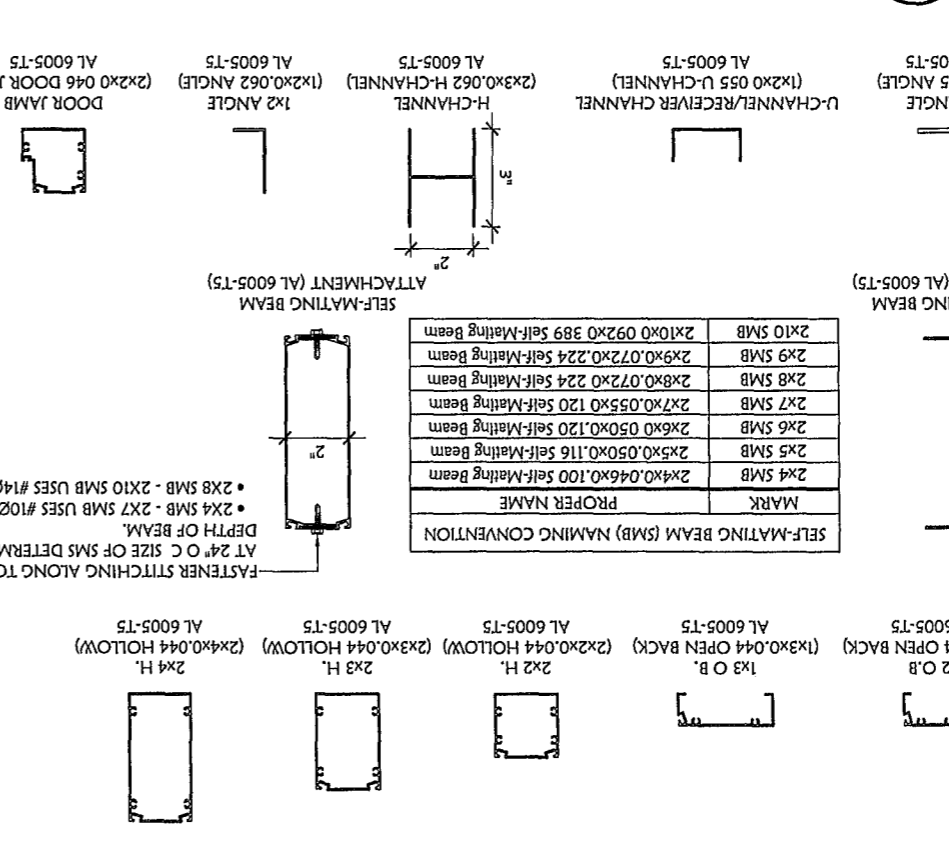
MEMBER	2x4 SMB	2x6 SMB	2x8 SMB	2x10 SMB	2x12 SMB	2x14 SMB	2x16 SMB	2x18 SMB	2x20 SMB	2x22 SMB	2x24 SMB	2x26 SMB	2x28 SMB	2x30 SMB	2x32 SMB	2x34 SMB	2x36 SMB	2x38 SMB	2x40 SMB
TRIBUTARY WIDTH (FT.)	4.0	4.5	5.0	5.5	6.0	6.5	7.0	7.5	8.0	8.5	9.0	9.5	10.0	10.5	11.0	11.5	12.0	12.5	13.0
EFFECTIVE SPAN (FT.)	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0

1 SPANS MAY BE INTERPOLATED BUT NOT EXTRAPOLATED.

MEMBER	2x4 SMB	2x6 SMB	2x8 SMB	2x10 SMB	2x12 SMB	2x14 SMB	2x16 SMB	2x18 SMB	2x20 SMB	2x22 SMB	2x24 SMB	2x26 SMB	2x28 SMB	2x30 SMB	2x32 SMB	2x34 SMB	2x36 SMB	2x38 SMB	2x40 SMB
TRIBUTARY WIDTH (FT.)	4.0	4.5	5.0	5.5	6.0	6.5	7.0	7.5	8.0	8.5	9.0	9.5	10.0	10.5	11.0	11.5	12.0	12.5	13.0
EFFECTIVE SPAN (FT.)	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0

1 S-1.0 SCALE 3/8" = 1'-0"

Aluminum Self-Mating Beam (SMB) Naming Convention



GENERAL DRAWING NOTES

- DO NOT SCALE DRAWINGS. USE DIMENSIONS PROVIDED. TYPICALLY IN THE CASE OF DIMENSIONAL CONFLICT, ARCHITECTURAL DIMENSIONS GOVERN OVER STRUCTURAL DIMENSIONS. TYPICALLY CONTRACTOR SHALL COORDINATE THE STRUCTURAL DOCUMENTS WITH THE ARCHITECTURAL, MECHANICAL, ELECTRICAL, PLUMBING, & CIVIL DOCUMENTS. SCALED SHALL BE NOTIFIED IN WRITING OF ANY DISCREPANCY OR OMISSION.
- THE STRUCTURE IS STABLE ONLY IN ITS COMPLETED FORM.
- TEMPORARY SUPPORTS REQUIRED FOR STABILITY DURING ALL INTERMEDIATE STAGES OF CONSTRUCTION SHALL BE DESIGNED, FURNISHED, & INSTALLED BY THE CONTRACTOR, TYPICALLY
- CONSTRUCTION SHALL CONFORM TO ASTM A195 CONCRETE
- WORK SHALL BE IN ACCORD WITH ACI 318-02, ACI 318-02, ACI 318-99, ACI 318-02, CRSI "MANUAL OF STANDARD PRACTICE" 2001, CRSI "PLACING AND REINFORCING BARS" 1997, WIRE REINFORCEMENT "MANUAL OF STANDARD PRACTICE FOR REINFORCED CONCRETE" GRADE 60, 2001 BARS SHALL CONFORM TO ASTM SPECIFICATION A615(G), GRADE 60, WELDED WIRE FABRIC SHALL CONFORM TO ASTM SPECIFICATION A185, CONCRETE COVER REQUIRED AS FOLLOWS
- A. CAST AGAINST AND EXPOSED TO EARTH OR WEATHER. 3" (1/2" & LARGER)
- B. FORMED, EXPOSED TO EARTH OR WEATHER. 1 1/2" (#5 & SMALLER)
- C. SLABS AND WALLS NO EARTH OR WEATHER EXPOSURE 3/4" (#11 & SMALLER) 3 HOUR FIRE RATING AND LESS 3/4" (#11 & SMALLER)

02000 BUILDING CODES:

- FLORIDA BUILDING CODE - 2010 EDITION
- ASCE/SEI 7-10 - MINIMUM DESIGN LOADS FOR BUILDINGS & OTHER STRUCTURES

05000 STRUCTURAL DESIGN CRITERIA

THE STRUCTURE HAS BEEN DESIGNED IN ACCORD WITH THE BUILDING CODE AND/OR MORE RESTRICTIVE REQUIREMENTS FOR LOADS AS GIVEN BELOW UNLESS SPECIFIC AREAS OF THE DRAWING SPECIFICALLY CALL FOR DIFFERENT LOADING CRITERIA.

03000 CAST IN-PLACE CONCRETE.

TO BE MIXED AND PLACED IN ACCORDANCE WITH ACI 301-99 ALL REINFORCED CONCRETE TO HAVE 28 DAY COMPRESSIVE STRENGTHS AS FOLLOWS. (ALL STRUCTURAL ELEMENTS SHALL BE F_c = 4,000 PSI UNLESS NOTED OTHERWISE).

- SLABS F_c = 3,000 PSI
- FOUNDATIONS: F_c = 3,000 PSI
- CEMENT GROUT 1,800 PSI
- NON-SHRINK GROUT. 5,000 PSI
- PRECISION GROUT 6,500 PSI

09000 CONCRETE UNIT MASONRY

"ALL MASONRY CONSTRUCTION TO BE IN ACCORDANCE WITH SPECIFICATIONS FOR CONCRETE MASONRY CONSTRUCTION." ACI 530.1-02 AND ALL APPLICABLE LOCAL BUILDING CODE PROVISIONS. ALL MASONRY WALLS TO BE CONSTRUCTED ENTIRELY OF UNITS CONFORMING TO ASTM C 90, AND REINFORCED WITH #9 GAUGE LADDER TYPE HORIZONTAL MASONRY REINFORCING LOCATED AT 16" O.C. ALL MASONRY TO BE LAID IN TYPE "N" MORTAR (1:1/4:10) WITH FULL HEAD AND BED JOINTS. ALL MASONRY CONSTRUCTION TO BE EITHER BOUND BY THE BEAM, THE COLUMN MEMBERS OR TIED TO FRAME WITH 16 GAUGE CONTINUOUS DOWEL AND 12 GAUGE DOWEL ANCHOR SPACED @ 16" O.C. (TOP AND TWO VERTICAL SIDES).

02200 EARTHWORK:

CONTRACTOR SHALL DEWATER SITE AS NECESSARY, SO THAT ALL CONCRETE CAN BE PLACED IN THE DAY. ALL BACKFILL SHALL BE ACCORDING TO USIN'G MATERIAL CONSISTING OF CRUSHED STONE AND/OR MATERIAL APPROVED BY THE GEOTECHNICAL ENGINEER. THE BACKFILL SHALL BE COMPACTED TO 95% OF MAXIMUM DENSITY AS DETERMINED BY ASTM D-1557. NO BACKFILL MATERIAL SHALL BE PLACED AGAINST WALLS WHICH DO NOT HAVE PERMANENT FLOORS AT THE TOP AND BOTTOM WITHOUT PROVISIONS FOR ADEQUATE TEMPORARY BRACING OF THOSE WALLS. PROVIDE ADEQUATE EXCAVATION BRACING IN ACCORD WITH GEOTECHNICAL ENGINEER RECOMMENDATIONS TO MAINTAIN EXISTING FOOTINGS, UTILITIES, AND OTHER IMPROVEMENTS IN A SAFE CONDITION.

03100 FORMWORK:

CONTRACTOR SHALL DESIGN AND ERECT FORMWORK IN STRICT COMPLIANCE WITH ACI 347. SEE TYPICAL DETAILS FOR CAMBER REQUIREMENTS. CONTRACTOR SHALL COORDINATE ALL OPENINGS AS REQUIRED FOR OTHER TRADES. OPENINGS SHALL BE FURNISHED OR STRUCTURAL DRAWINGS ARE TO IDENTIFY DESIGN INTENT ON THE SPECIFIC DIMENSIONS AND LOCATIONS. PROVIDE CHAMBERS AT ALL CORNERS IN CONCRETE MEMBERS EXPOSED TO VIEW. FORMWORK TO REMAIN IN PLACE UNTIL CONCRETE HAS ATTAINED ENOUGH STRENGTH TO SUPPORT ALL DEAD LOADS PLUS A MINIMUM OF 50 PSF OF ADDITIONAL CONSTRUCTION LOAD. SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

S-1.0 Sheet

Date: 08/27/13

Approved By: RCS

Checked By: RCS

Drawn By: TLW

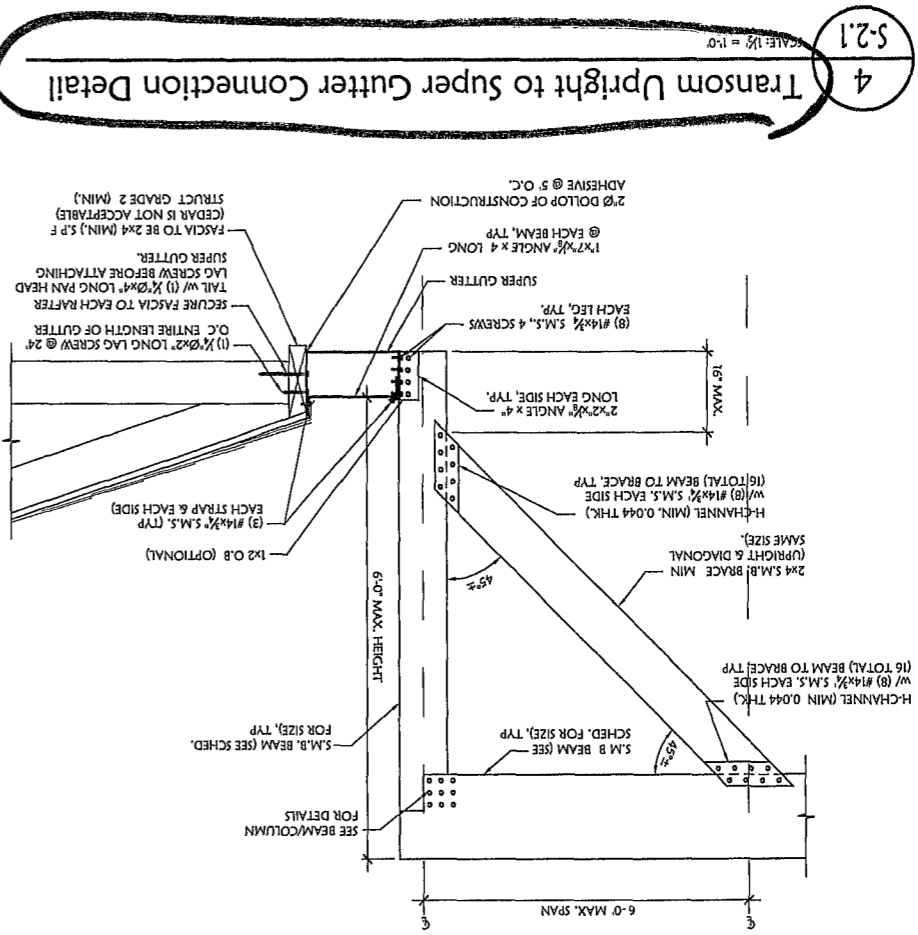
Project No. #13-002-11

Client: Florida Pool Enclosures, Inc

Project: Residential Pool Screen Enclosure, Florida

Structural Notes & Connection Detail

13521



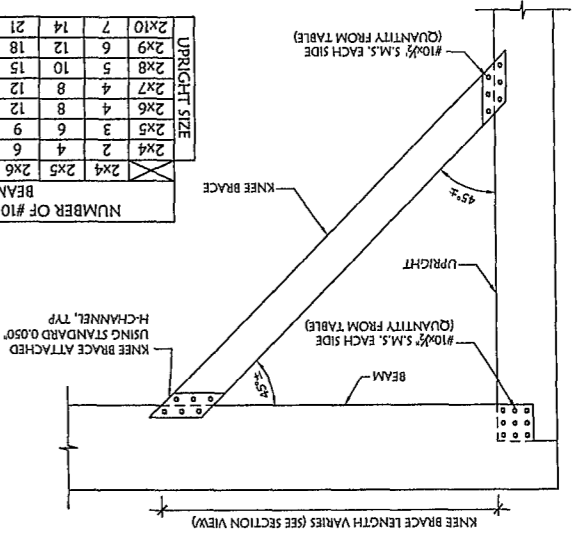
4 Transom Upright to Super Gutter Connection Detail

SCALE: 1/2" = 1'-0"

BEAM SIZE	UPRIGHT SIZE	NUMBER OF #14 S.M.S. REQUIRED
2x4	2x4	2
2x4	2x5	2
2x4	2x6	2
2x4	2x7	2
2x4	2x8	2
2x4	2x9	2
2x4	2x10	2
2x5	2x4	2
2x5	2x5	2
2x5	2x6	2
2x5	2x7	2
2x5	2x8	2
2x5	2x9	2
2x5	2x10	2
2x6	2x4	2
2x6	2x5	2
2x6	2x6	2
2x6	2x7	2
2x6	2x8	2
2x6	2x9	2
2x6	2x10	2
2x7	2x4	2
2x7	2x5	2
2x7	2x6	2
2x7	2x7	2
2x7	2x8	2
2x7	2x9	2
2x7	2x10	2
2x8	2x4	2
2x8	2x5	2
2x8	2x6	2
2x8	2x7	2
2x8	2x8	2
2x8	2x9	2
2x8	2x10	2
2x9	2x4	2
2x9	2x5	2
2x9	2x6	2
2x9	2x7	2
2x9	2x8	2
2x9	2x9	2
2x9	2x10	2
2x10	2x4	2
2x10	2x5	2
2x10	2x6	2
2x10	2x7	2
2x10	2x8	2
2x10	2x9	2
2x10	2x10	2

SCALE: 1/2" = 1'-0"

BEAM SIZE	UPRIGHT SIZE	NUMBER OF #10 S.M.S. REQUIRED
2x4	2x4	2
2x4	2x5	2
2x4	2x6	2
2x4	2x7	2
2x4	2x8	2
2x4	2x9	2
2x4	2x10	2
2x5	2x4	2
2x5	2x5	2
2x5	2x6	2
2x5	2x7	2
2x5	2x8	2
2x5	2x9	2
2x5	2x10	2
2x6	2x4	2
2x6	2x5	2
2x6	2x6	2
2x6	2x7	2
2x6	2x8	2
2x6	2x9	2
2x6	2x10	2
2x7	2x4	2
2x7	2x5	2
2x7	2x6	2
2x7	2x7	2
2x7	2x8	2
2x7	2x9	2
2x7	2x10	2
2x8	2x4	2
2x8	2x5	2
2x8	2x6	2
2x8	2x7	2
2x8	2x8	2
2x8	2x9	2
2x8	2x10	2
2x9	2x4	2
2x9	2x5	2
2x9	2x6	2
2x9	2x7	2
2x9	2x8	2
2x9	2x9	2
2x9	2x10	2
2x10	2x4	2
2x10	2x5	2
2x10	2x6	2
2x10	2x7	2
2x10	2x8	2
2x10	2x9	2
2x10	2x10	2



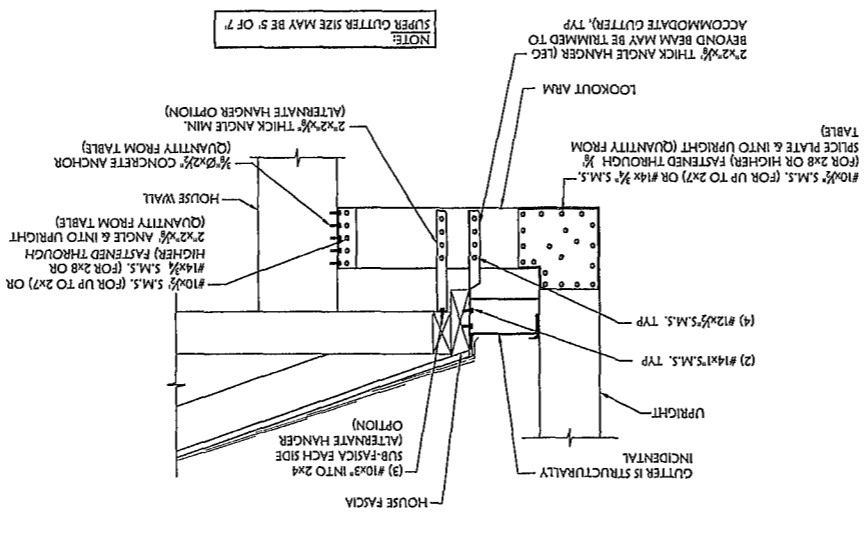
1 Typical Beam to Column Connection w/ Knee Brace

2 Lookout Arm Connection Detail

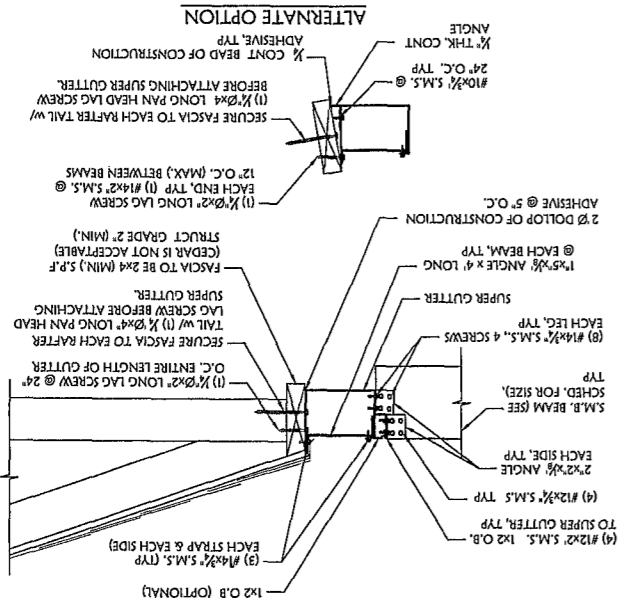
SCALE: 1/2" = 1'-0"

UPRIGHT SIZE	NUMBER OF GUSSET PLATE SCREWS
2x4	16
2x5	18
2x6	20
2x7	24
2x8	26
2x9	30
2x10	30

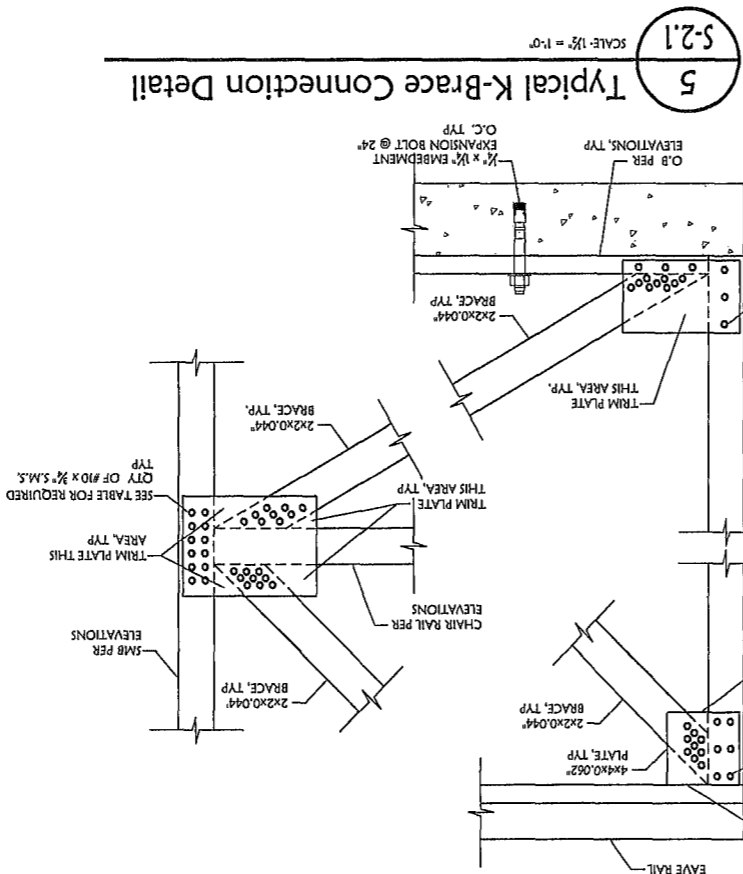
UPRIGHT SIZE	NUMBER OF FASTENERS TO ANGLE CLIP
2x4	2x4
2x5	2x5
2x6	2x6
2x7	2x7
2x8	2x8
2x9	2x9
2x10	2x10



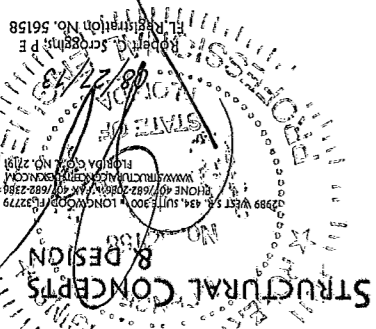
3 Roof Beam to Super Gutter Connection



3 Roof Beam to Super Gutter Connection



5 Typical K-Brace Connection Detail



S-2.1
Sheet

Date: 08/27/13
Approved By: RCS
Checked By: RCS
Drawn By: TLW
Project No. #13-002.11

REV DATE DESCRIPTION

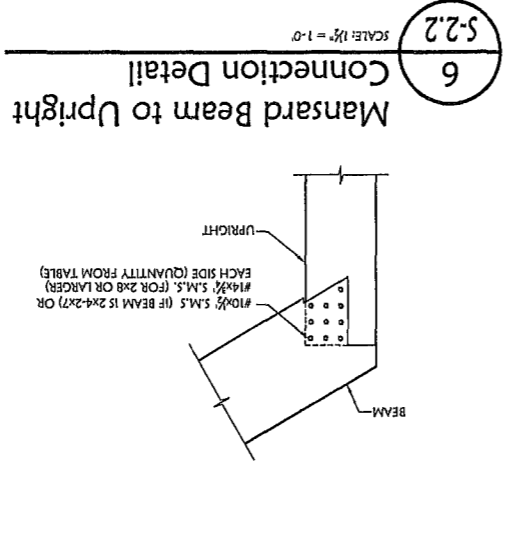
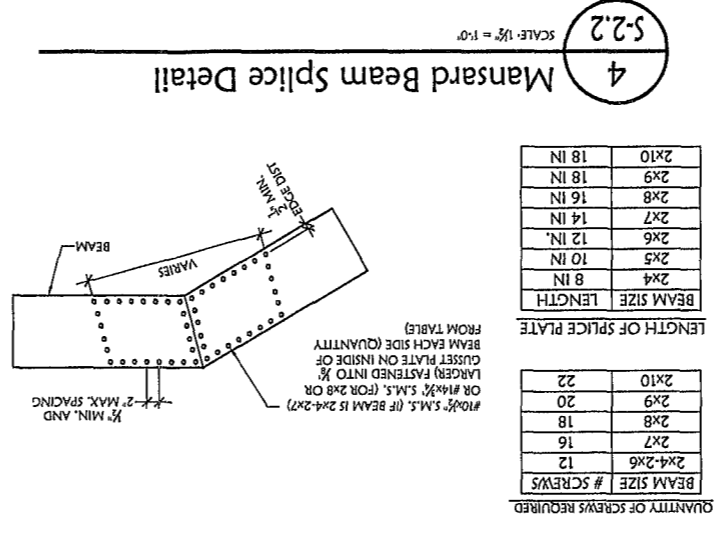
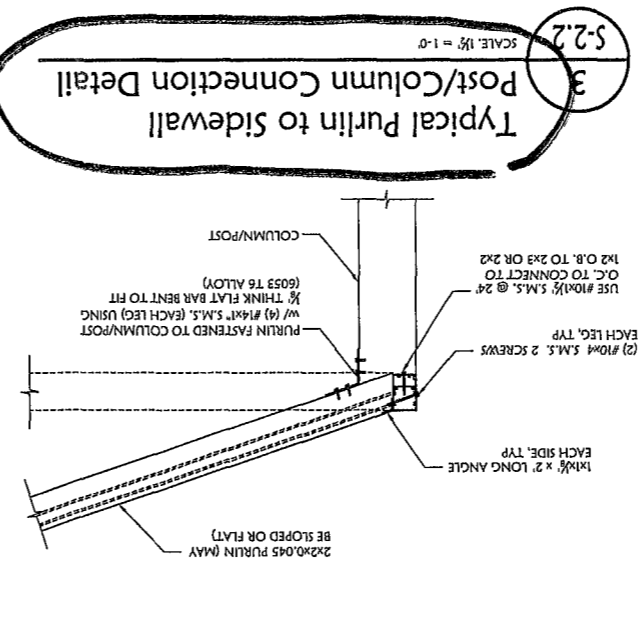
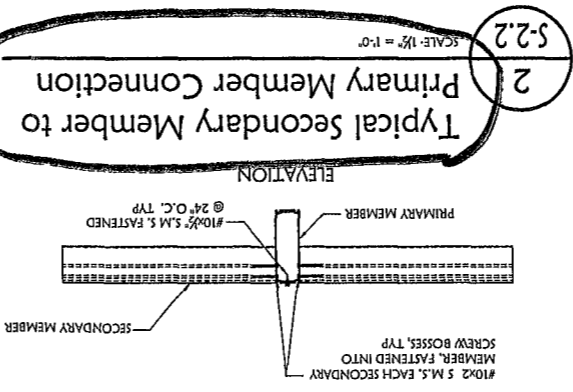
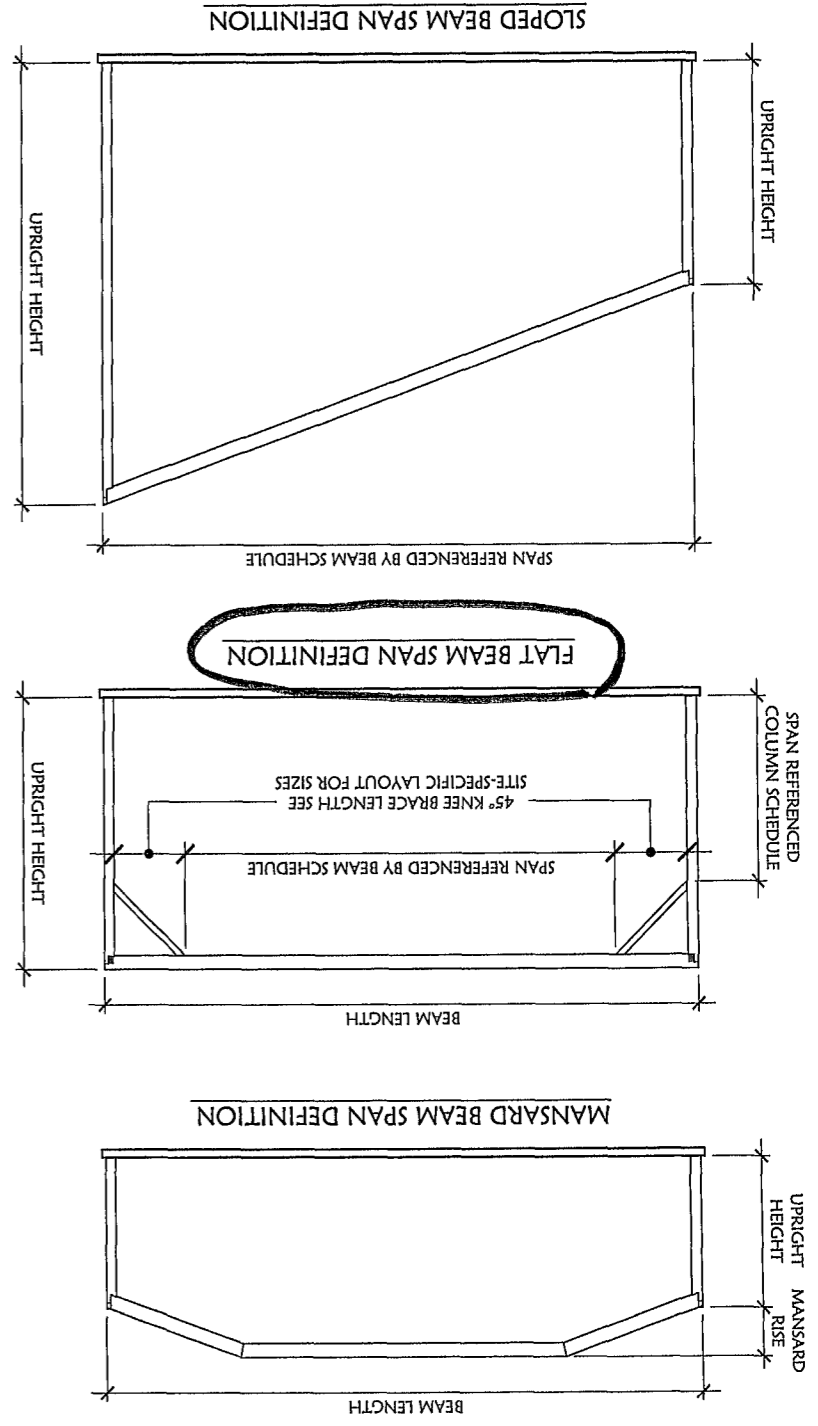
Client: **Florida Pool Enclosures, Inc**
233 HICKORY STREET - AUSTIN, TEXAS 78745
TEL: 479.262.3899 FAX: 479.262.4441
WWW.FLORIDAPOLENCLOSURES.COM

Project: **Residential Pool Screen Enclosure**, Florida

Structural Framing Sections & Details

To the best of the Design Engineer's knowledge, the plans and specifications for this project comply with the applicable minimum building codes as determined by the local authority in accordance with the Florida Statutes.

1 Typical Beam Span Definitions
SCALE: 1/8" = 1'-0"

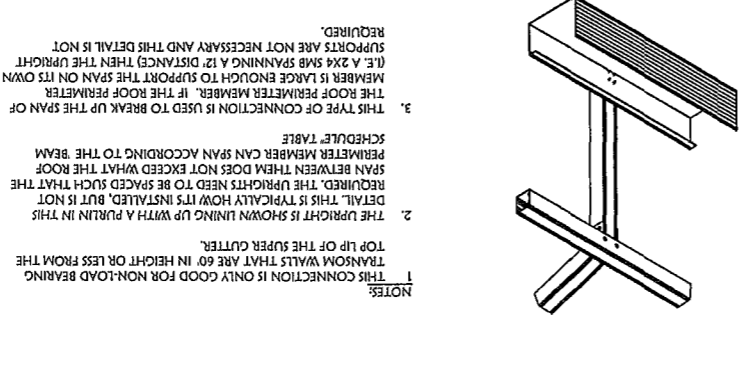
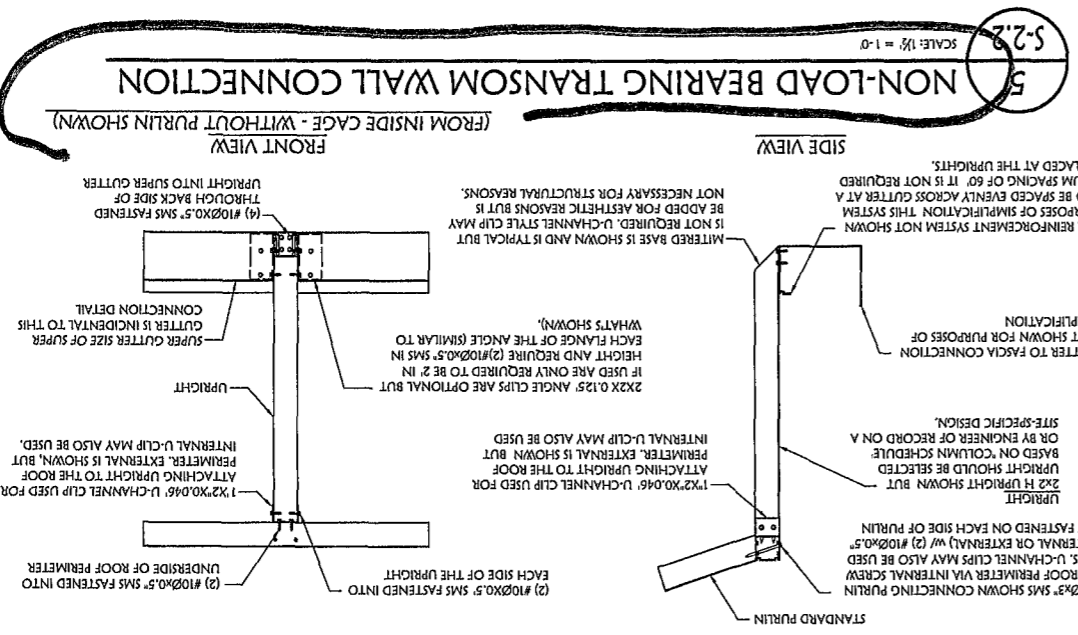


QUANTITY OF #10 FASTENERS REQUIRED

UPRIGHT SIZE	2x4	2x5	2x6	2x7	2x8	2x9	2x10
2x10	N/A	N/A	N/A	N/A	N/A	N/A	N/A
2x9	N/A	N/A	N/A	N/A	N/A	N/A	N/A
2x8	N/A	N/A	N/A	N/A	N/A	N/A	N/A
2x7	3	3	3	3	3	3	3
2x6	3	3	3	3	3	3	3
2x5	3	3	3	3	3	3	3
2x4	3	3	3	3	3	3	3

QUANTITY OF #14 FASTENERS REQUIRED

UPRIGHT SIZE	2x4 <th>2x5 <th>2x6 <th>2x7</th> <th>2x8 <th>2x9 <th>2x10</th> </th></th></th></th>	2x5 <th>2x6 <th>2x7</th> <th>2x8 <th>2x9 <th>2x10</th> </th></th></th>	2x6 <th>2x7</th> <th>2x8 <th>2x9 <th>2x10</th> </th></th>	2x7	2x8 <th>2x9 <th>2x10</th> </th>	2x9 <th>2x10</th>	2x10
2x10	N/A	N/A	N/A	N/A	N/A	N/A	N/A
2x9	N/A	N/A	N/A	N/A	N/A	N/A	N/A
2x8	N/A	N/A	N/A	N/A	N/A	N/A	N/A
2x7	9	9	9	9	9	9	9
2x6	9	9	9	9	9	9	9
2x5	9	9	9	9	9	9	9
2x4	9	9	9	9	9	9	9



STRUCTURAL CONCEPTS & DESIGN

Robert G. Scroggins, P.E.
Professional Engineer
Registration No. 56158
FLORIDA BOARD OF PROFESSIONAL ENGINEERS
1300 WEST S.W. 44th AVE., SUITE 400, MIAMI, FL 33135
PHONE: 305-442-2222 FAX: 305-442-2225
WWW.STRUCTURALCONCEPTS.COM

Project No. #13-002 11
Drawn By: TLW
Checked By: RCS
Approved By: RCS
Date: 08/27/13
Sheet: S-2.2

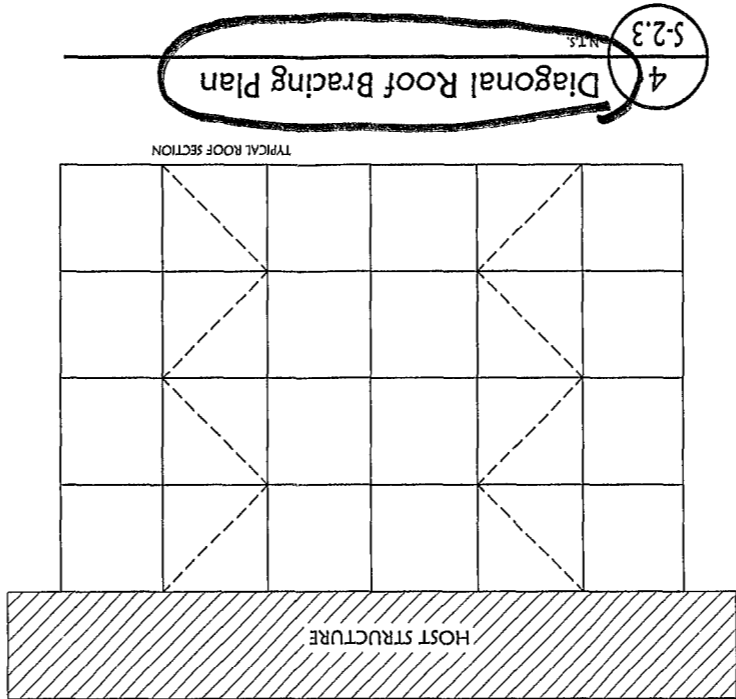
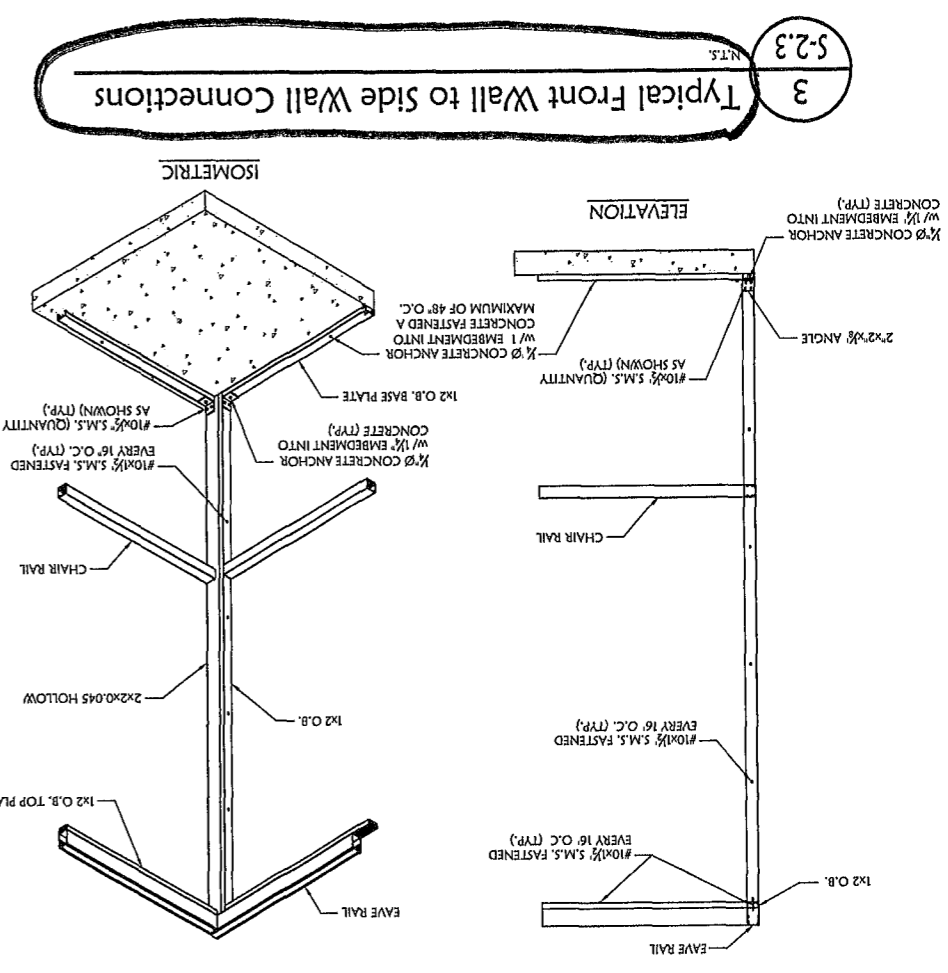
To the best of the Design Engineer's knowledge, the plans and specifications for this project comply with the applicable minimum building codes as determined by the local authority in accordance with the Florida Statutes.

Client: **Florida Pool Enclosures, Inc**
301 HICKORY STREET, ALTAMUNTA, GEORGIA 30509
TEL: 404/262-0800 FAX: 404/262-0811
WWW.FLORIDAPOLENCLOSURES.COM

Project: **Residential Pool Screen Enclosure**, Florida

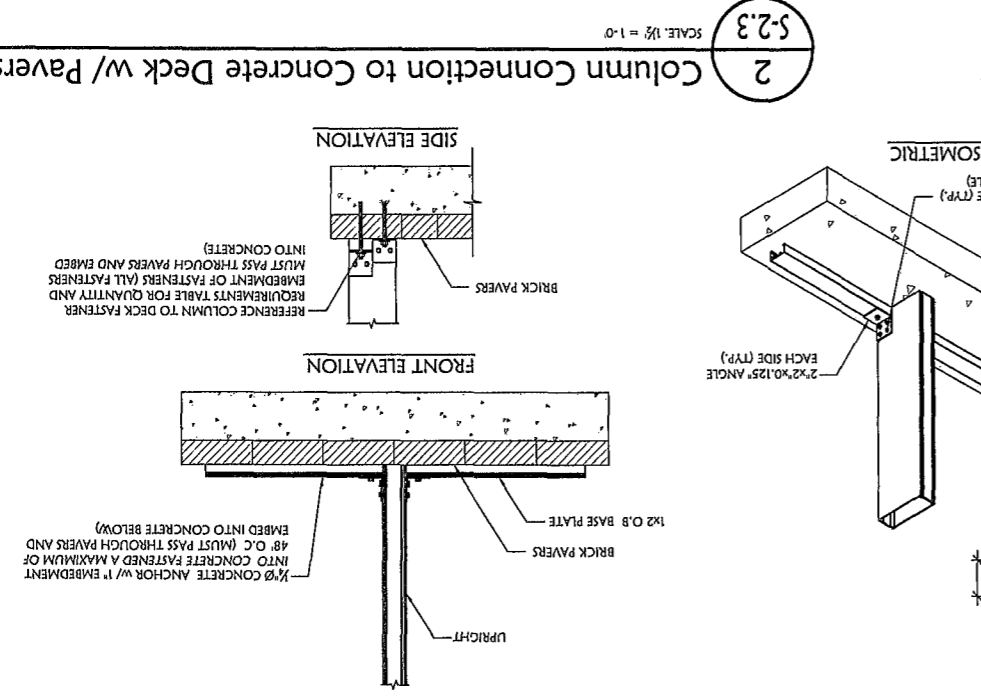
Structural Framing Sections & Details

REV.	DATE	DESCRIPTION



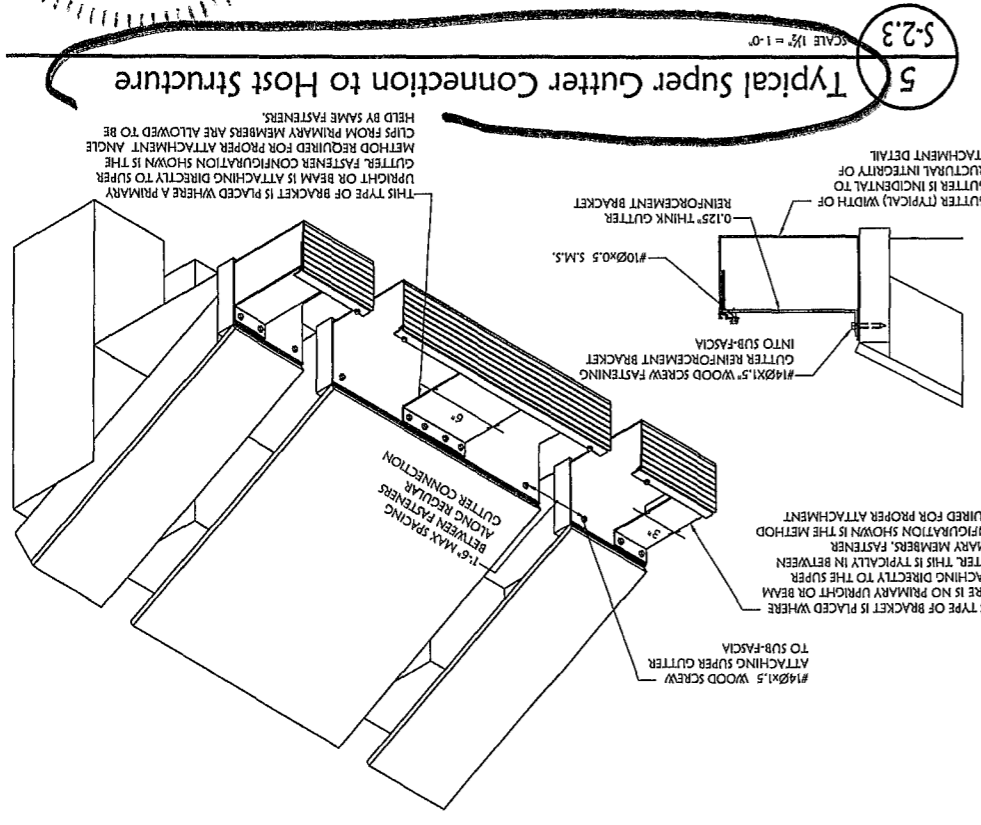
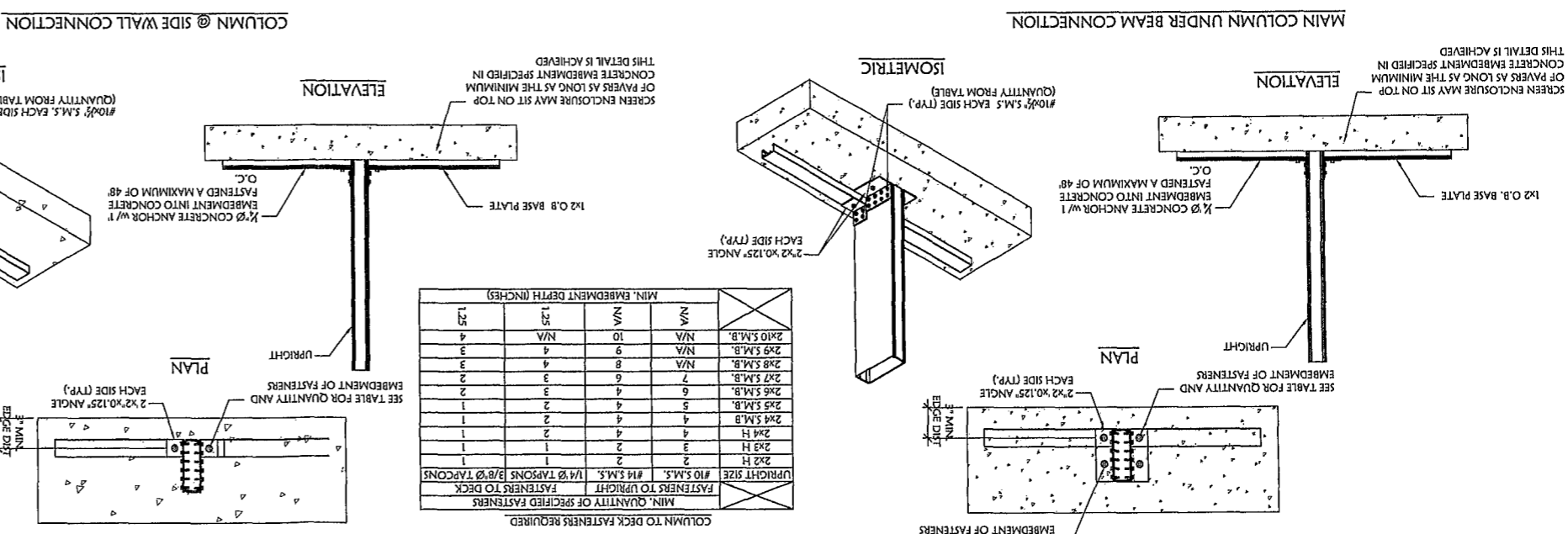
- NOTES:
1. ROOF BRACING MAY BE PLACED IN EITHER THE FIRST OR SECOND ROOF SECTION ON EACH SIDE OF THE ENCLOSURE
 2. THE ORIENTATION (I.E. DIRECTION) OF THE ROOF BRACING IS INCIDENTAL TO STRUCTURAL INTEGRITY
 3. IF THERE ARE AN ODD NUMBER OF PANELS, A BRACE IN THE CENTER MAY BE OMITTED
 4. ANY ENCLOSURE THAT IS BRACED ON MORE THAN ONE SIDE BY THE HOST STRUCTURE DOES NOT REQUIRE ROOF BRACING

3 S-2.3
4 S-2.3
Diagonal Roof Bracing Plan



2 S-2.3
Column Connection to Concrete Deck w/ Pavers

1 S-2.3
Typical Column to Concrete Connection Details



5 S-2.3
Typical Super Gutter Connection to Host Structure

- NOTES:
1. FASCIA SHOWN IS PLUMB CUT FASCIA. IF THE FASCIA IS SQUARE CUT (PERPENDICULAR TO THE ROOF PITCH) THEN THE SUPER GUTTER MAY HAVE SOMETHING BEHIND IT (I.E. ANGLE OR WOOD WEDGE) TO KEEP IT PLUMB. THIS COMPONENT IS INCIDENTAL TO THE STRUCTURAL INTENTION OF THIS DESIGN.
 2. FOR A RUN OF SUPER GUTTER THAT NON-LOAD BEARING, THE MAX SPACING OF THE 3\"/>

STRUCTURAL CONCEPTS & DESIGN
NO. 13-002
11/13/13
2999 WEST SR. 434, SUITE 300 - LONGWOOD, FL 32759
TEL: 407-226-2888 FAX: 407-226-2888
WWW.SUPERSCREENS.COM

Project: Residential Pool Screen Enclosure, Florida

Client: Florida Pool Enclosures, Inc.

Project No. #13-002 11

Drawn By: TLW

Checked By: RCS

Approved By: RCS

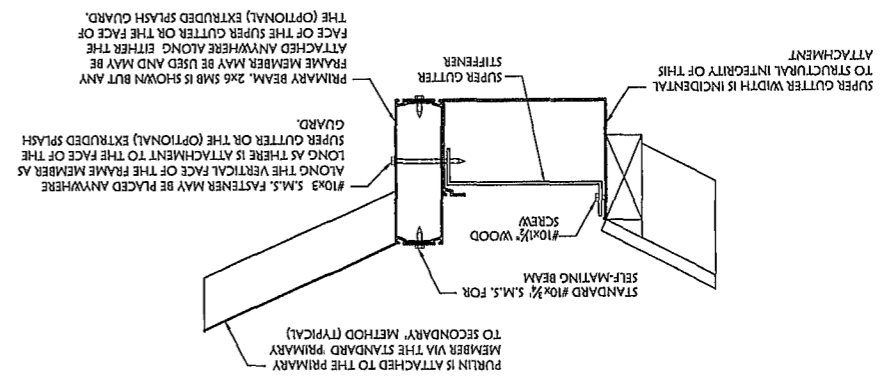
Date: 08/27/13

Sheet: S-2.3

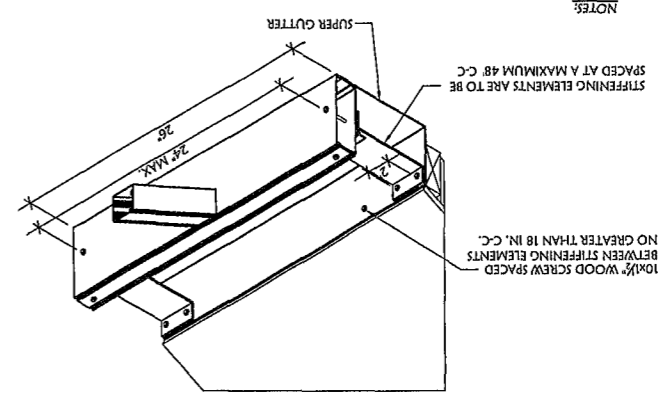
Structural Framing Sections & Details

To the best of the Design Engineer's knowledge, the plans and specifications for this project comply with the applicable minimum building codes as determined by the local authority in accordance with the Florida Statutes.

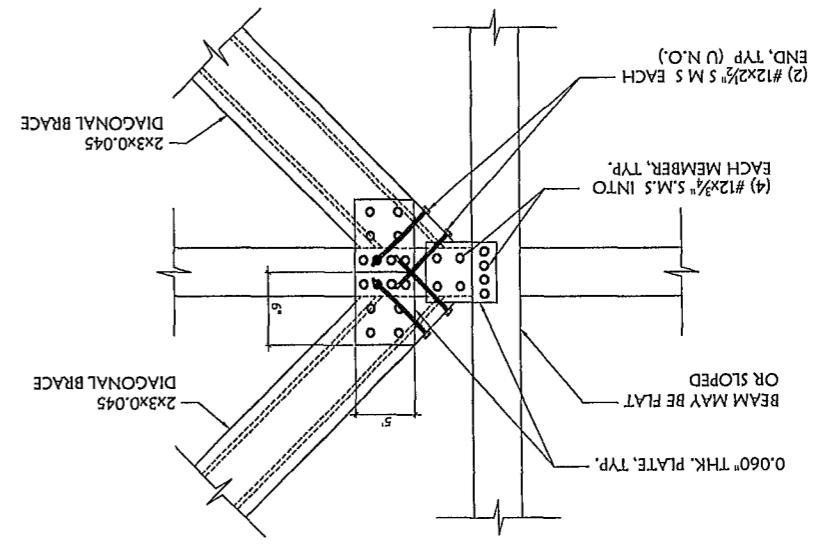
S-2.4
2
N.T.S.
Parallel Frame Member to Super Gutter Connection



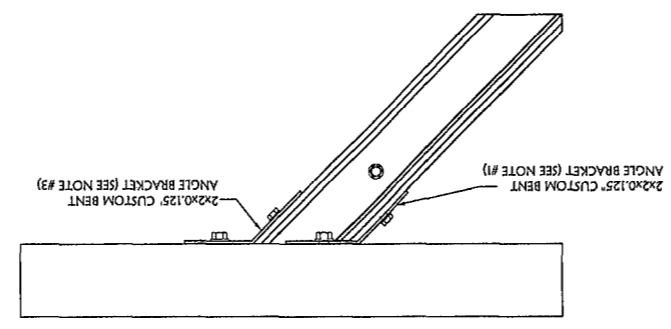
1. 2"x2x0.125" ANGLE MAY BE USED IN LIEU OF (OR IN ADDITION TO) THE #10x3" S.M.S. ATTACHMENT AND MAY BE ON TOP OR BOTTOM OF THE ATTACHING FRAME MEMBER. THE SPACING AND TYPE OF FASTENERS WILL REMAIN THE SAME AS STATED IN THIS DETAIL. EACH FASTENER WILL BE ON THE SAME PLANE FOR EACH OPPOSING FACE (FLANGE) OF THE 2x2 ANGLE.
2. SUPER GUTTER IS SHOWN AS THE COMPONENT BEING FASTENED TO, BUT THIS DETAIL CAN BE USED IN THE CASE WHERE SUPER GUTTER IS SUBSTITUTED FOR A DIFFERENT ALUMINUM STRUCTURAL COMPONENT (I.E. SELF-WASTING BEAM ETC.) PROVIDED THE PRIMARY STRUCTURAL COMPONENT IS SUPPORTED PROPERLY IN ACCORDANCE WITH THE DETAILS IN THE SEALED ENGINEERING PACKAGE.



S-2.4
1
SCALE: 1/2" = 1'-0"
Beam Connection Detail



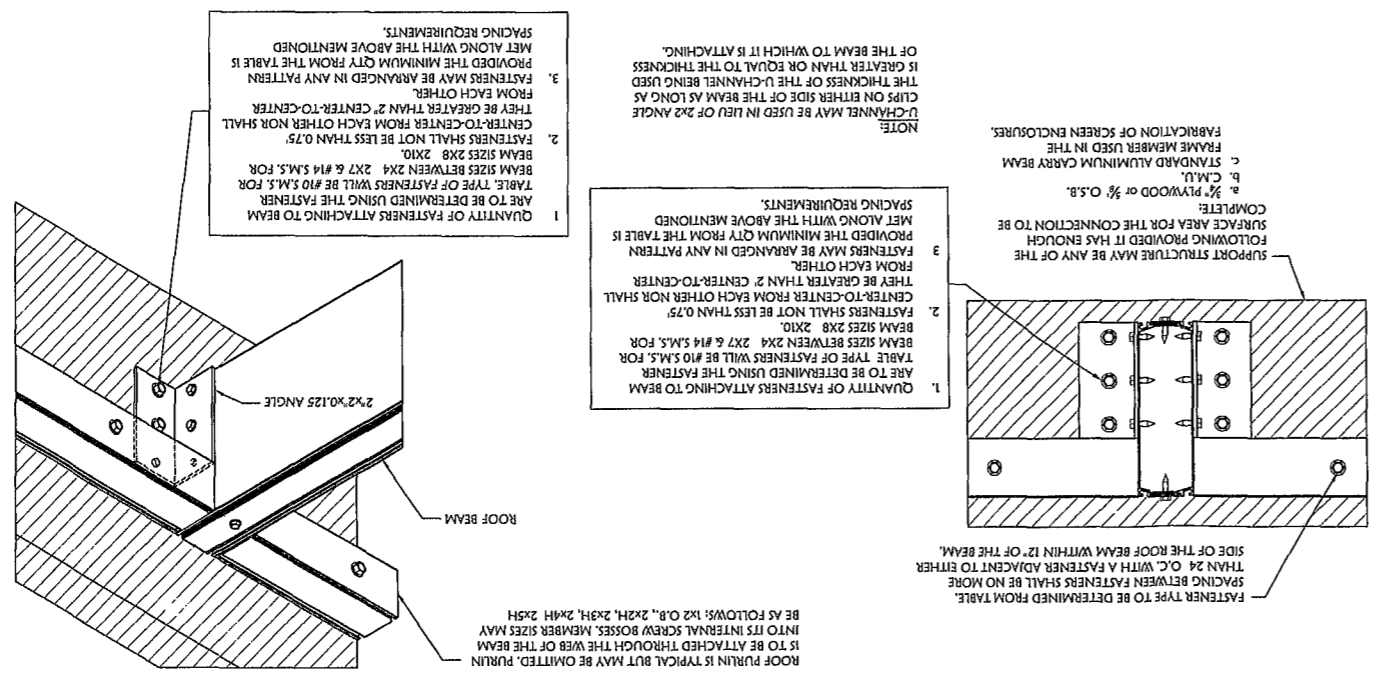
S-2.4
4
N.T.S.
Angled Beam to Support Structure Connection Detail



- NOTES
1. ACUTE SIDE OF BEAM MAY BE NOTCHED TO ALLOW FOR THE 2x2x0.125" CUSTOM BENT ANGLE BRACKET TO SLIDE IN BETWEEN THE BEAM AND SUPPORT STRUCTURE. THE FABRICATION METHOD TO ACHIEVE THIS WOULD BE TO SIMPLY ATTACH THE ANGLE BRACKET TO THE BEAM PRIOR TO INSTALLING THE BEAM HALF-SHELL. PROVIDED THE ACUTE SIDE OF THE BEAM IS INSTALLED FIRST THIS WOULD ALLOW FOR THE FASTENERS TO BE INSTALLED INTO THE SUPPORT STRUCTURE PRIOR TO THE INSTALLATION OF THE OBTUSE SIDE OF THE BEAM.
 2. IF THE FABRICATION METHOD SHOWN HERE CANNOT BE ACHIEVED, THEN A SECONDARY SHOULD REFERENCE THE ROW LABELED 2x2 H IN THE FASTENER REQUIREMENTS' TABLE.
 3. A CUSTOM BENT 2x2x0.125" ANGLE MUST ALWAYS BE INSTALLED ON THE OBTUSE SIDE OF THE BEAM. (4) ALL OTHER NOTES AND SPECIFICATIONS FROM THE STRAIGHT BEAM TO SUPPORT STRUCTURE DETAIL APPLY TO THIS DETAIL.

MIN. QUANTITY OF SPECIFIED FASTENERS TO HOIST STRUCTURE FASTENER REQUIREMENTS	MIN. EMBEDMENT DEPTH (INCHES)	MIN. QUANTITY OF FASTENERS TO BEAM	FASTENERS TO WOOD SCREW
2x10 S.M.B.	10	10	10
2x9 S.M.B.	9	9	9
2x8 S.M.B.	8	8	8
2x7 S.M.B.	7	7	7
2x6 S.M.B.	6	6	6
2x5 S.M.B.	5	5	5
2x4 S.M.B.	4	4	4
2x3 S.M.B.	3	3	3
2x2 H	2	2	2
2x2 H	2	2	2
UPRIGHT SIZE #10 S.M.S. 1/4" Ø TAPCONS 3/8" Ø TAPCONS #14 WOOD SCREW #14 WOOD SCREW	3	3	3

S-2.4
3
N.T.S.
Straight Beam to Support Structure Connection Detail



- NOTE:
1. QUANTITY OF FASTENERS ATTACHING TO BEAM ARE TO BE DETERMINED USING THE FASTENER TABLE. TYPE OF FASTENERS WILL BE #10 S.M.S. FOR BEAM SIZES BETWEEN 2x4 2x7 & #14 S.M.S. FOR BEAM SIZES 2x8 2x10.
 2. FASTENERS SHALL NOT BE LESS THAN 0.75" CENTER-TO-CENTER FROM EACH OTHER NOR SHALL THEY BE GREATER THAN 2" CENTER-TO-CENTER FROM EACH OTHER.
 3. FASTENERS MAY BE ARRANGED IN ANY PATTERN PROVIDED THE MINIMUM QTY FROM THE TABLE IS MET ALONG WITH THE ABOVE MENTIONED SPACING REQUIREMENTS.

- NOTE:
1. QUANTITY OF FASTENERS ATTACHING TO BEAM ARE TO BE DETERMINED USING THE FASTENER TABLE. TYPE OF FASTENERS WILL BE #10 S.M.S. FOR BEAM SIZES BETWEEN 2x4 2x7 & #14 S.M.S. FOR BEAM SIZES 2x8 2x10.
 2. FASTENERS SHALL NOT BE LESS THAN 0.75" CENTER-TO-CENTER FROM EACH OTHER NOR SHALL THEY BE GREATER THAN 2" CENTER-TO-CENTER FROM EACH OTHER.
 3. FASTENERS MAY BE ARRANGED IN ANY PATTERN PROVIDED THE MINIMUM QTY FROM THE TABLE IS MET ALONG WITH THE ABOVE MENTIONED SPACING REQUIREMENTS.

STRUCTURAL CONCEPTS
ROOF DESIGN
134 S.W. 10th Ave., Suite 100 • Fort Lauderdale, FL 33304
Phone: 407.688.2008 • Fax: 407.688.2009
www.structuralconcepts.com
Robert C. Spongberg, P.E.
Professional Engineer
Registration No. 56158
08/27/13

S-2.4
Sheet
Date: 08/27/13
Approved By: RCS
Checked By: RCS
Drawn By: TLW
Project No. #13-002.11

REV.	DATE	DESCRIPTION

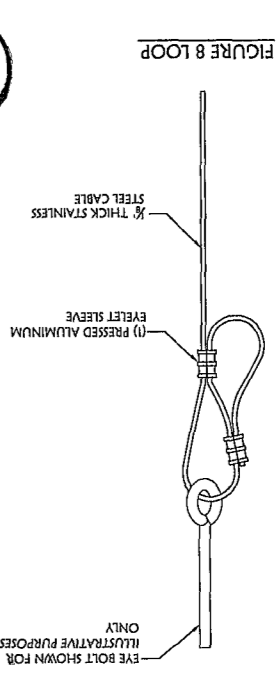
Client: Florida Pool Enclosures, Inc.
221 HONEY CREEK • ATLANTIC PALM, FL 33411
TEL: 407.260.2600 • FAX: 407.260.4411
www.floridapoolenclosures.com

Project: Residential Pool Screen Enclosure
Florida

Structural Framing Sections & Details

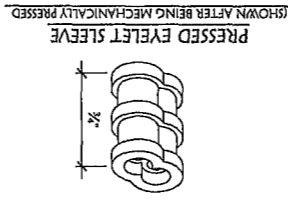
To the best of the Design Engineer's knowledge, the plans and specifications for this project comply with the applicable minimum building codes as determined by the local authority in accordance with the Florida Statutes.

1 S-2.5 Typical Cable Attachment Details

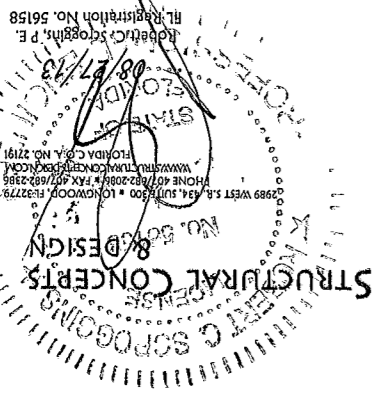
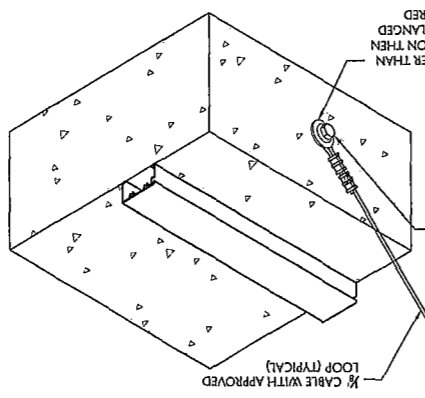
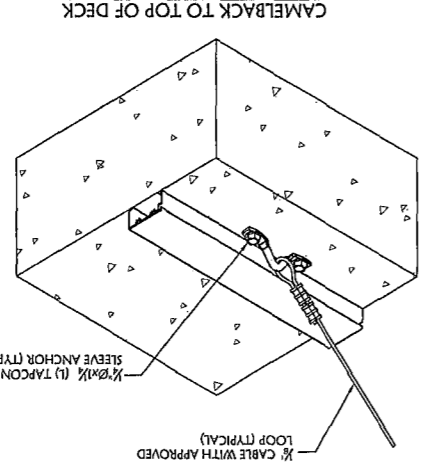
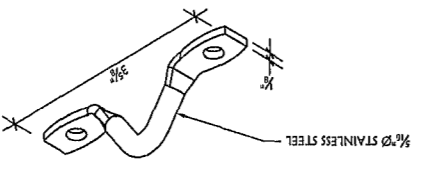
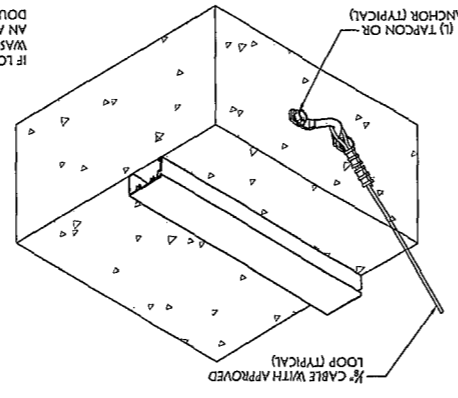
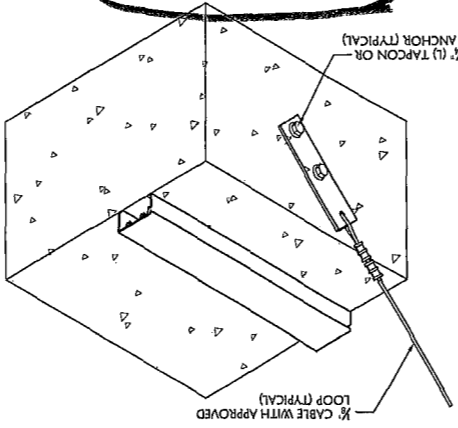
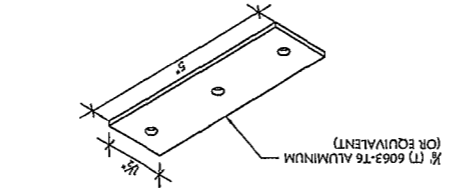
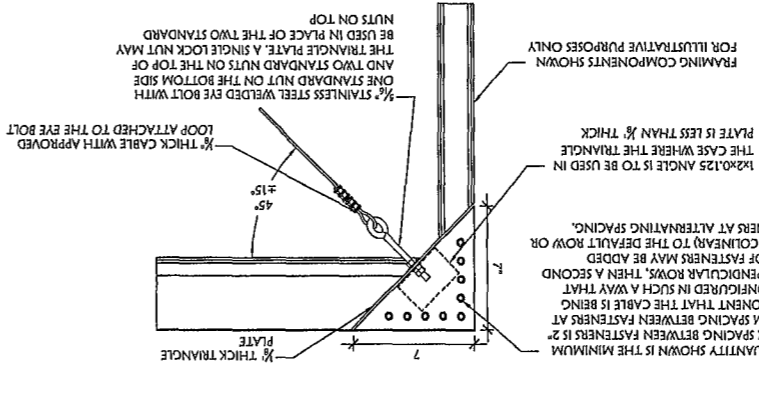


1. TO DETERMINE THE QUANTITY OF CABLES NEEDED FOR A SCREEN WALL BRACED ON ONE SIDE BY A HOST STRUCTURE TAKE THE TOTAL SQUARE FOOTAGE OF THE BRACED WALL AND DIVIDE BY 250. ROUND THE CALCULATED VALUE TO THE CLOSEST WHOLE NUMBER AND MULTIPLY BY 2. IT IS REQUIRED THAT AN UNBRACED SCREEN WALL HAVE AN EQUAL AMOUNT OF CABLES OPPOSING EACH OTHER.
EXAMPLE: 430 SF / 250 = 1.72 > ROUNDS TO 2 > 2x1 = 2 CABLES
EXAMPLE: 230 SF / 250 = 0.92 > ROUNDS TO 1 -> 1x1 = 1 CABLE
2. TO DETERMINE THE QUANTITY OF CABLES NEEDED FOR AN UNBRACED SCREEN WALL, TAKE THE TOTAL SQUARE FOOTAGE OF THE UNBRACED WALL AND DIVIDE BY 250. ROUND THE CALCULATED VALUE TO THE CLOSEST WHOLE NUMBER AND MULTIPLY BY 2. IT IS REQUIRED THAT AN UNBRACED SCREEN WALL HAVE AN EQUAL AMOUNT OF CABLES OPPOSING EACH OTHER.
EXAMPLE: 535 SF / 250 = 2.14 > ROUNDS TO 3 > 3x2 = 6 CABLES (2 PAIRS OF OPPOSING CABLES)
EXAMPLE: 780 SF / 250 = 3.12 -> ROUNDS TO 3 > 3x2 = 6 CABLES (3 PAIRS OF OPPOSING CABLES)
3. ANY ONE OF THE APPROVED CABLE-TO-DECK ATTACHMENTS SHOWN MAY BE USED FIELD CONDITIONS WILL DICTATE THE TYPE OF ATTACHMENT USED AND MAY CHANGE DYNAMICALLY FROM THE ORIGINAL DESIGN INTENT. THIS HAS NO BEARING ON THE DESIGN OR THE STRUCTURAL INTEGRITY OF THE ENCLOSURE AND THEREFORE IS ALLOWED TO BE DONE, AS LONG AS ONE OF THE APPROVED ATTACHMENT DETAILS IS UTILIZED.
4. CABLES MAY ATTACH THROUGH PAVERS AS LONG AS THE MINIMUM CONCRETE EMBEDMENT OF $1 \frac{1}{4}$ IS ACHIEVED BY USING A LONGER TAPCON
5. MINIMUM CONCRETE EDGE DISTANCE FOR ALL CONCRETE FASTENERS IS 2 $\frac{1}{4}$
6. CABLES SHOULD BE AT A 45° ANGLE TO THE VERTICAL UPRIGHTS (±15°).

CABLE CONNECTION NOTES:



TRIANGLE PLATE TOP ATTACHMENT



REV.	DATE	DESCRIPTION

Client:
Florida Pool Enclosures, Inc
320 HICKORY STREET • ALTAMONTE SPRINGS, FL 32714
TEL: 407-208-2388 • FAX: 407-208-4241
WWW.FLORIDAPOLENCLOSURES.COM

Project:
Residential Pool Screen Enclosure
Florida

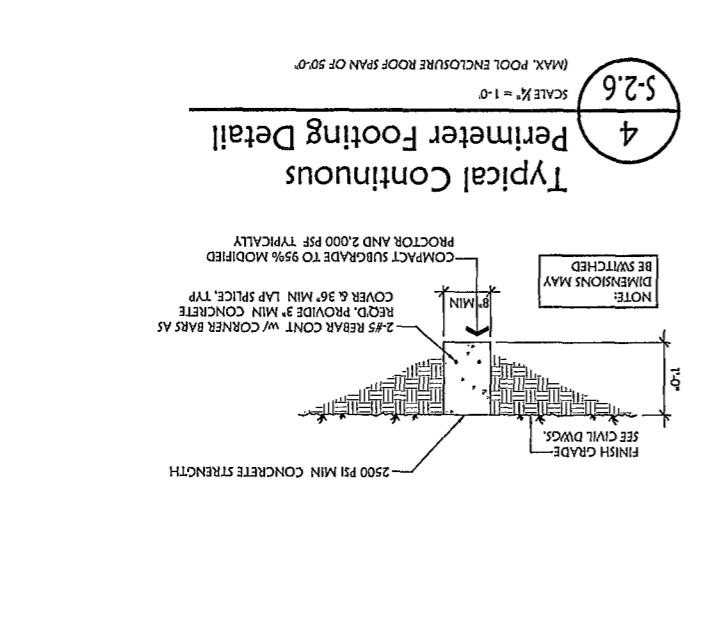
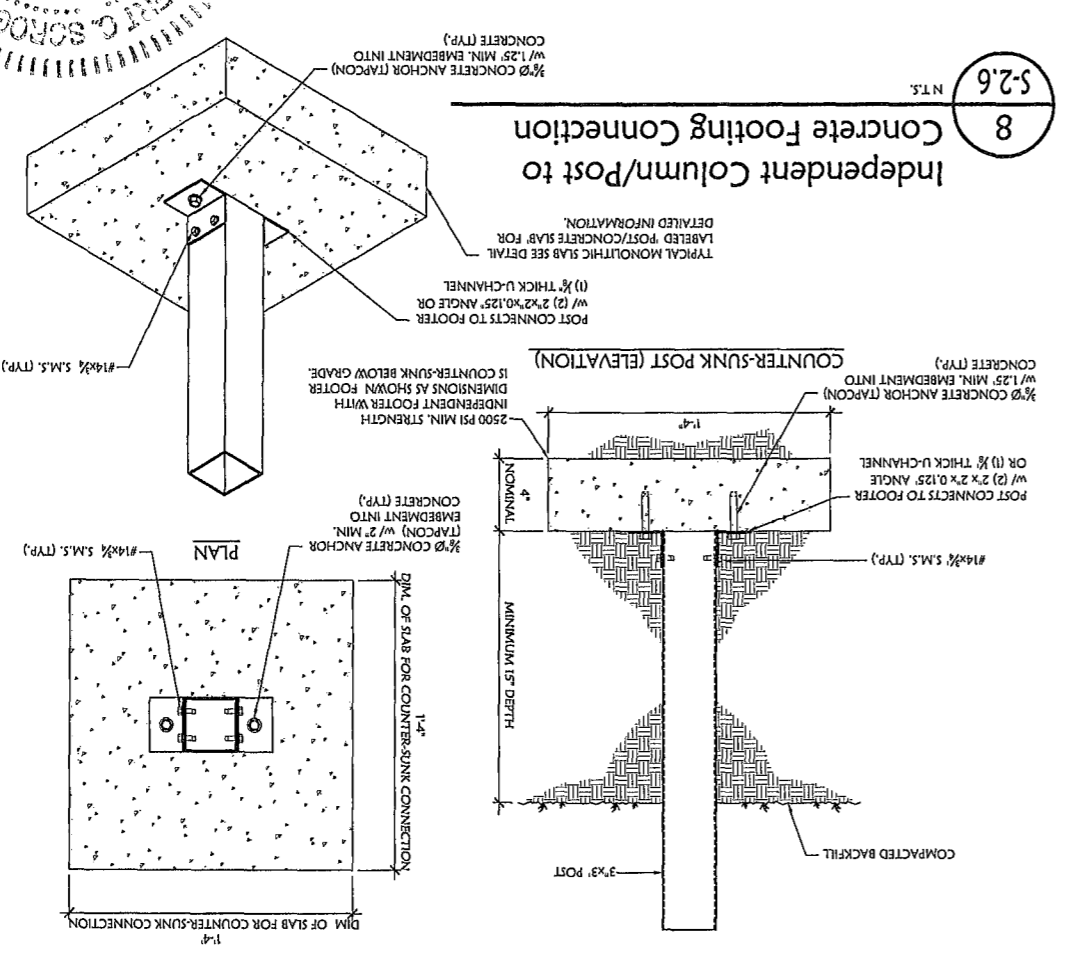
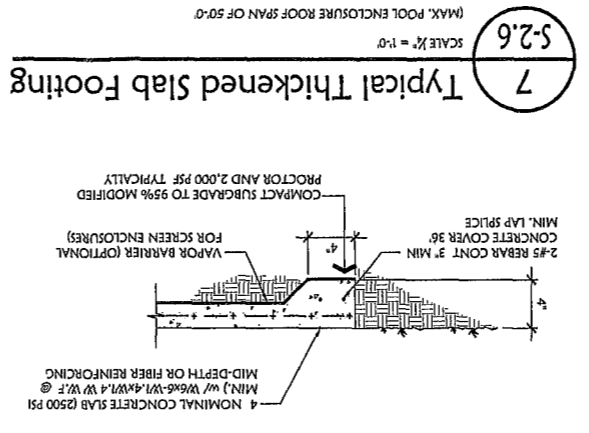
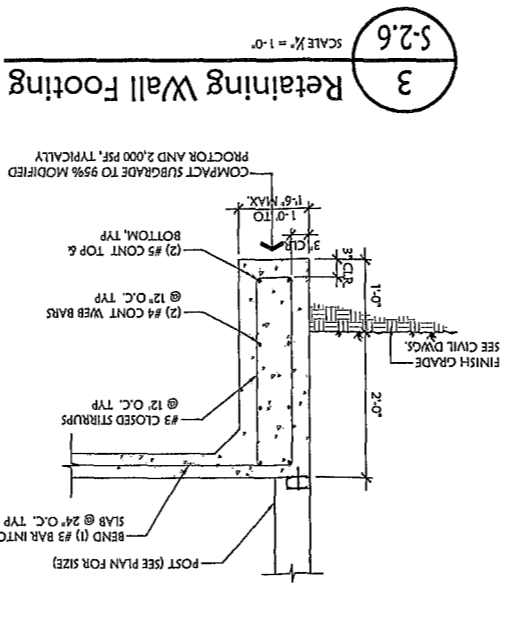
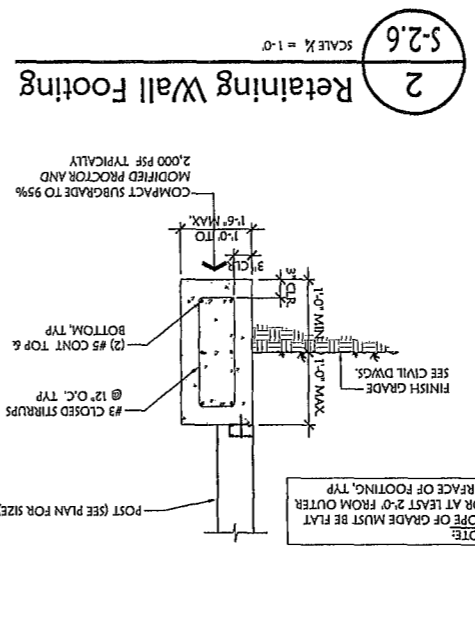
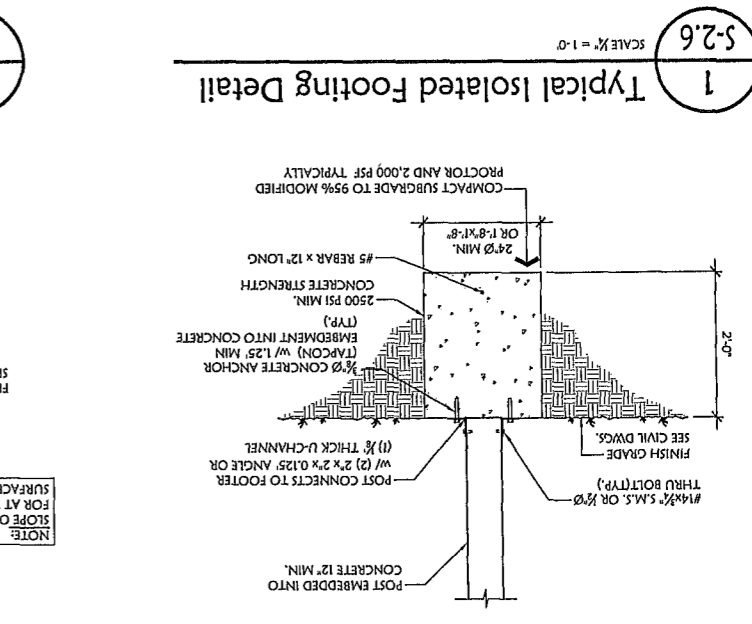
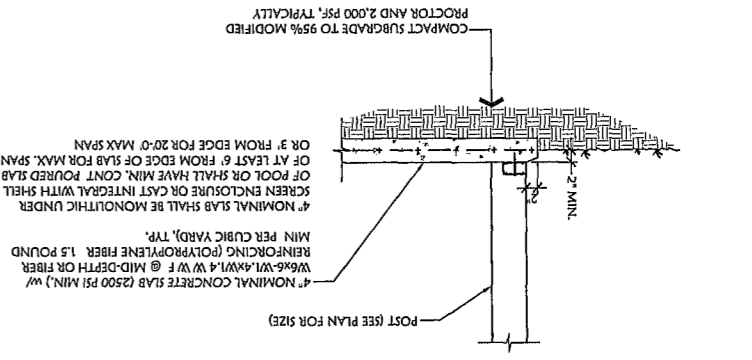
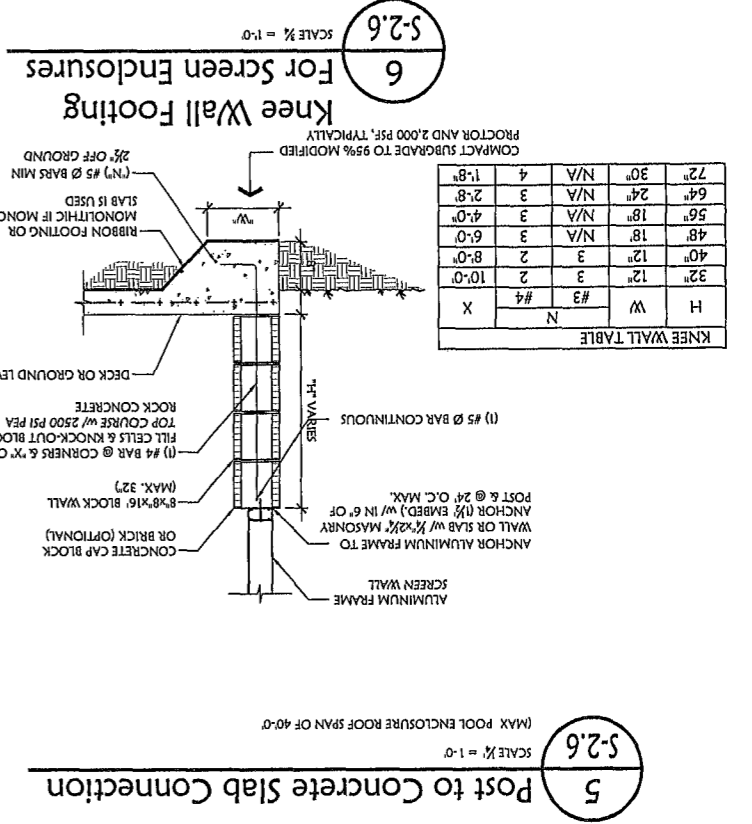
Structural Framing
Sections & Details

To the best of the Design Engineer's knowledge, the plans and specifications for this project comply with the applicable minimum building codes as determined by the local authority in accordance with the Florida Statutes.

Sheet **S-2.5**

Date: 08/27/13
Approved By: RCS
Checked By: RCS
Drawn By: TLW
Project No. #13-002.11

REV.	DATE	DESCRIPTION



KNEE WALL TABLE

H	W	X	N
32"	12"	3	2
40"	12"	3	2
48"	18"	N/A	3
56"	18"	N/A	3
64"	24"	N/A	3
72"	30"	N/A	4

Sheet **S-2.6**
 Date: 08/27/13
 Approved By: RCS
 Checked By: RCS
 Drawn By: TLW
 Project No. #13-002.11

Client: **Florida Pool Enclosures, Inc**
 522 HICKORY STREET - AUSTIN, TEXAS 78745
 TEL: 407/654-9898 • FAX: 407/654-9841
 WWW.FLORIDAPOLENCLOSURES.COM

Project: **Residential Pool Screen Enclosure**, Florida

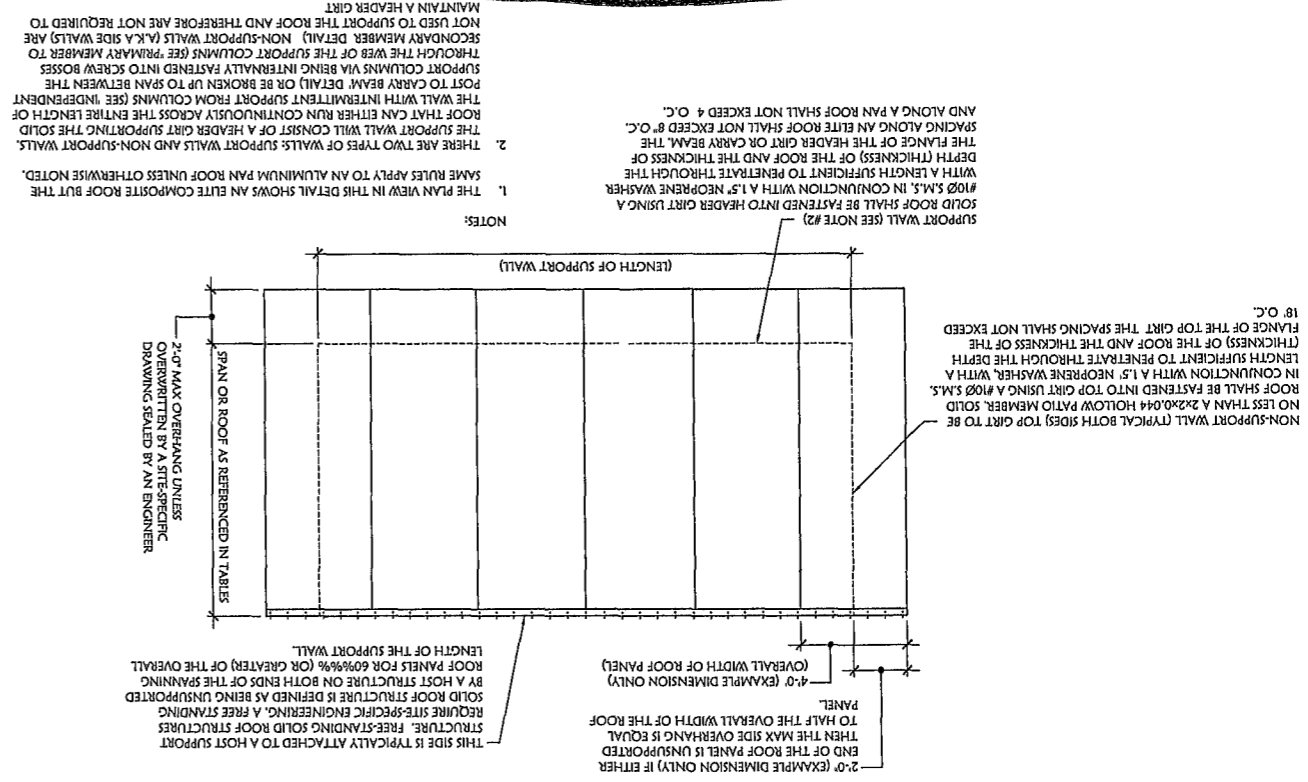
Structural Framing Sections & Details

To the best of the Design Engineer's knowledge, the plans and specifications for this project comply with the applicable minimum building codes as determined by the local authority in accordance with the Florida Statutes.

STRUCTURAL CONCEPTS & DESIGN
 Robert C. Scroggins, P.E.
 2989 WEST ST. #34, SUITE 500 • LONGWOOD, FL 32779
 PHONE 407/882-2088 • FAX 407/882-2886
 WWW.RCSDESIGN.COM • WWW.SITEPLANDESIGN.COM
 LONGWOOD, FL 32779
 08/27/13

WIND SPEED & CATEGORY	130	140	150	160	170
ALUMINUM PAN (3" RISER) SPAN TABLE	11.0	10.8	10.9	10.8	10.5
EFFECTIVE SPAN (FT.)	11.9	11.7	11.9	11.8	11.5
PAN TYPE	3"x12"x0.050"	3"x12"x0.030"	3"x12"x0.030"	3"x12"x0.030"	3"x12"x0.030"
WIND SPEED & CATEGORY	130	140	150	160	170
ELITE ALUMINUM CORPORATION COMPOSITE ROOF SPAN TABLE (#2 CORE DENSITY FOAM)	21.1	20.9	21.1	20.9	20.7
ELITE ALUMINUM CORPORATION COMPOSITE ROOF SPAN TABLE (#1 CORE DENSITY FOAM)	23.1	22.9	23.1	22.9	22.7

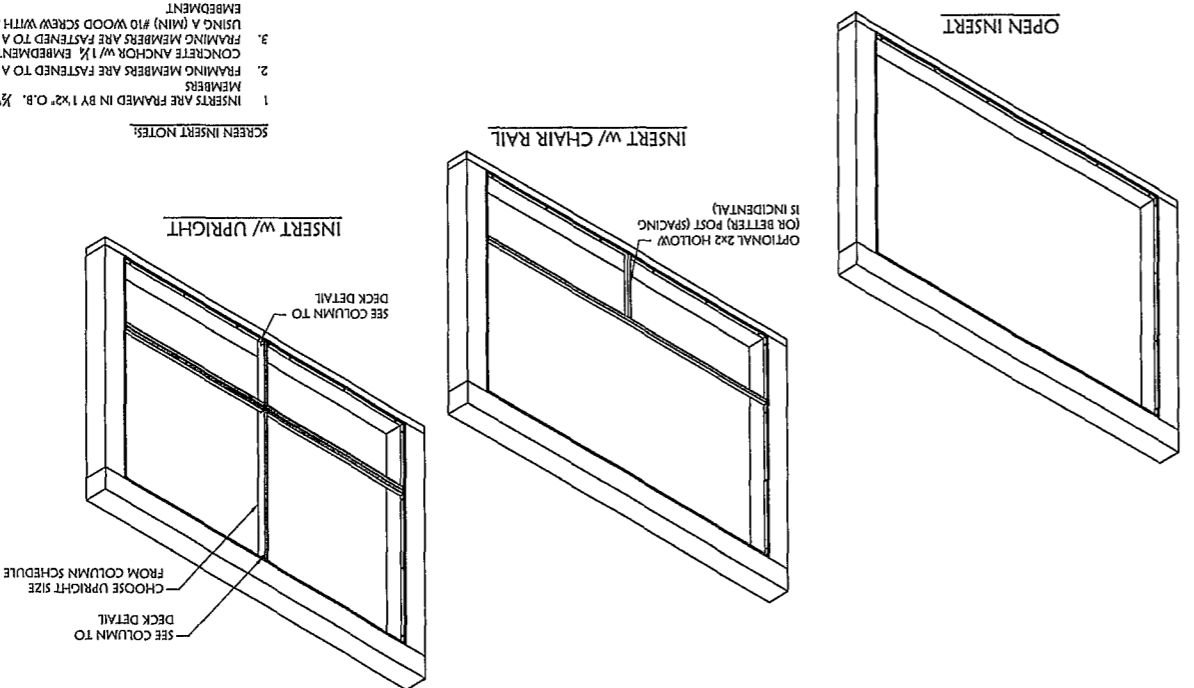
WIND SPEED & CATEGORY	BEAM SIZE									
	2x2 H	2x3 H	2x4 H	2x5 H	2x6 SMB	2x6 SMB	2x7 SMB	2x8 SMB	2x9 SMB	2x10 SMB
ELITE ALUMINUM CORPORATION COMPOSITE ROOF SPAN TABLE (#2 CORE DENSITY FOAM)	7.6	7.1	6.5	6.0	5.8	5.6	5.4	5.2	5.0	4.6
ELITE ALUMINUM CORPORATION COMPOSITE ROOF SPAN TABLE (#1 CORE DENSITY FOAM)	10.7	9.9	9.1	8.4	8.2	7.8	7.5	7.3	6.9	6.4
ELITE ALUMINUM CORPORATION COMPOSITE ROOF SPAN TABLE (#2 CORE DENSITY FOAM)	14.4	13.4	12.5	12.0	11.4	11.1	10.6	10.3	9.9	9.1
ELITE ALUMINUM CORPORATION COMPOSITE ROOF SPAN TABLE (#1 CORE DENSITY FOAM)	17.2	16.2	15.2	14.5	13.8	13.2	12.5	11.7	11.0	10.0
ELITE ALUMINUM CORPORATION COMPOSITE ROOF SPAN TABLE (#2 CORE DENSITY FOAM)	20.1	19.1	18.0	17.2	16.4	15.2	14.1	13.4	12.7	11.6
ELITE ALUMINUM CORPORATION COMPOSITE ROOF SPAN TABLE (#1 CORE DENSITY FOAM)	22.3	21.2	20.2	19.6	18.8	18.1	17.2	16.6	15.9	14.9
ELITE ALUMINUM CORPORATION COMPOSITE ROOF SPAN TABLE (#2 CORE DENSITY FOAM)	25.5	24.5	23.6	22.3	21.2	20.2	19.6	18.8	18.1	17.2
ELITE ALUMINUM CORPORATION COMPOSITE ROOF SPAN TABLE (#1 CORE DENSITY FOAM)	28.0	27.0	26.0	25.0	24.5	23.3	22.1	21.0	20.0	19.0
ELITE ALUMINUM CORPORATION COMPOSITE ROOF SPAN TABLE (#2 CORE DENSITY FOAM)	31.6	30.6	29.6	28.6	28.0	27.0	26.0	25.0	24.2	23.0
ELITE ALUMINUM CORPORATION COMPOSITE ROOF SPAN TABLE (#1 CORE DENSITY FOAM)	34.8	33.8	32.8	31.8	31.2	30.4	29.4	28.9	28.0	27.0



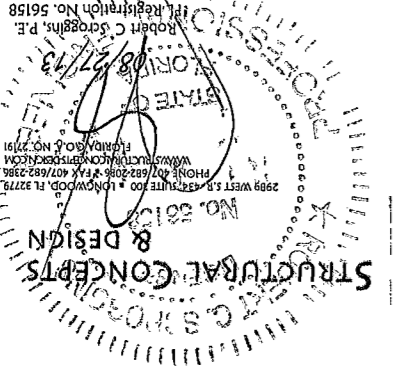
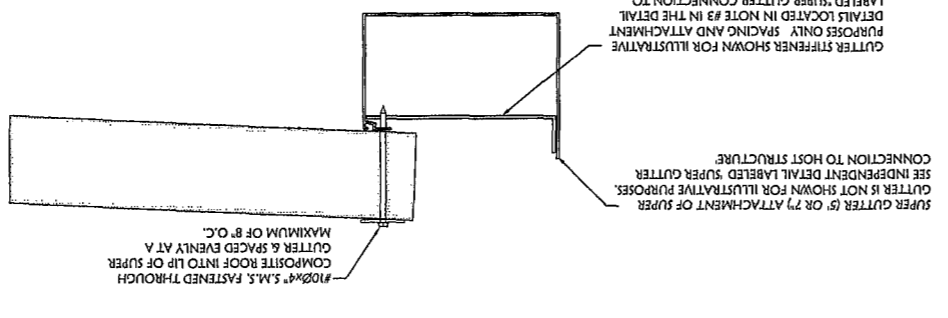
NOTE:
 THE ELITE ROOF SPAN TABLES WERE PRODUCED IN ACCORDANCE WITH THE ALUMINUM CORPORATION'S COMPOSITE ROOF PANEL, THE FLORIDA ALUMINUM CORPORATION'S COMPOSITE ROOF PANEL, THE FLORIDA PRODUCT APPROVAL NUMBER FOR THIS ROOF PANEL PRODUCT IS FL-#7561-R1

1 Solid Aluminum Roof Panel Plan

2 Screen Insert Framing Elevations



3 Composite Roof Panel to Top of Super Gutter Connection Detail



Sheet	S-2.7	
Date	08/27/13	
Approved By:	RCS	
Checked By:	RCS	
Drawn By:	TLW	
Project No. #13-002	11	
REV.	DATE	DESCRIPTION

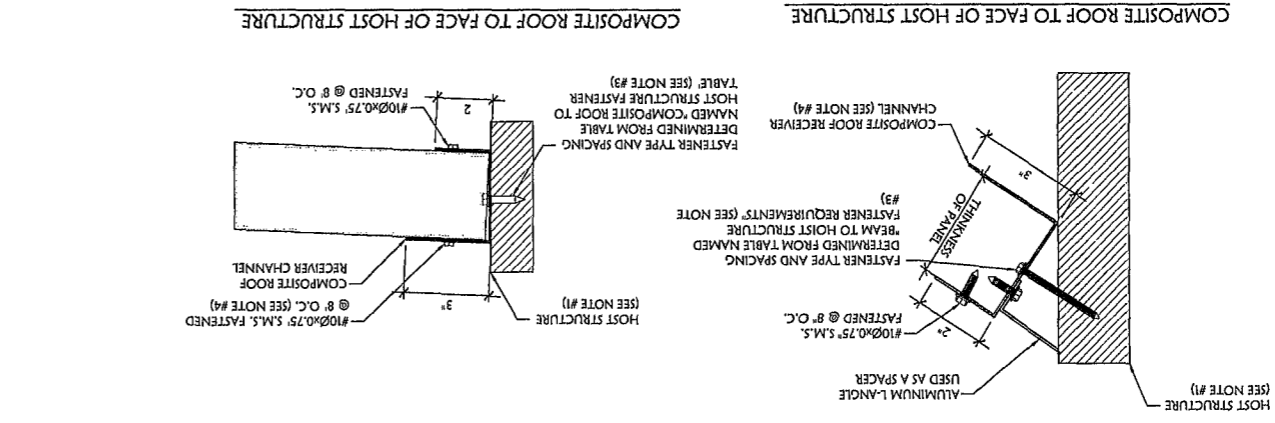
Client: **Florida Pool Enclosures, Inc**
 222 HICKORY STREET, ALZAMONT, MISSISSIPPI, 39701
 TEL: 601-722-0000 FAX: 601-722-0001
 WWW.FLORIDAPOLENCLOSURES.COM

Project: **Residential Pool Screen Enclosure**, Florida

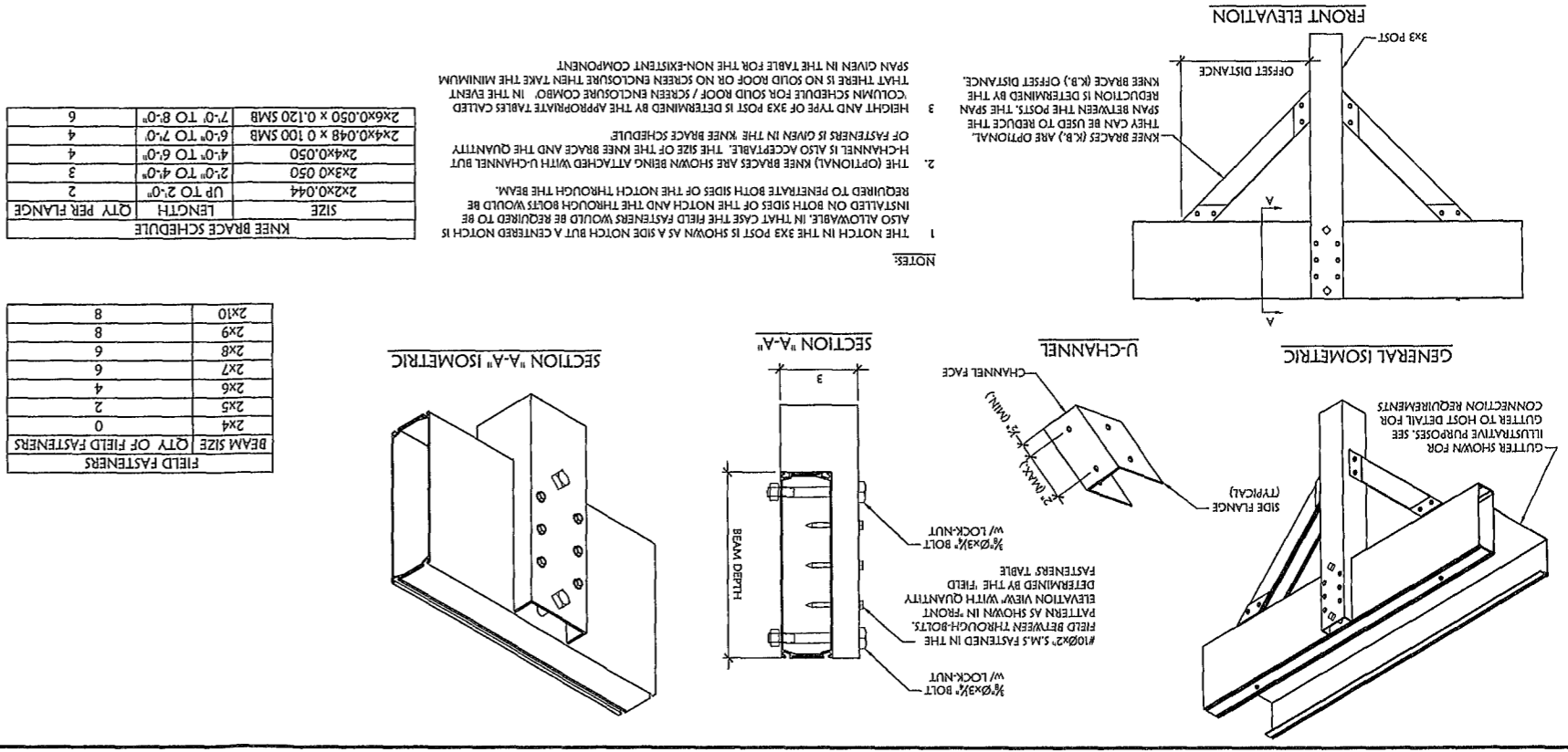
Structural Framing Sections & Details

To the best of the Design Engineer's knowledge, the plans and specifications for this project comply with the applicable minimum building codes as determined by the local authority in accordance with the Florida Statutes.

3 Composite Roof Panel to Host Structure Connection Detail

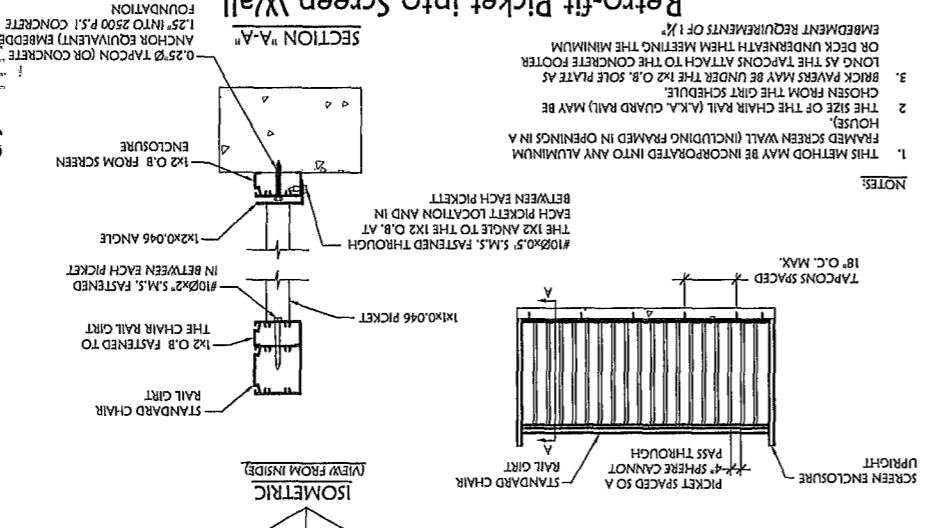


1 Independent Column/Post to Beam Connection Detail

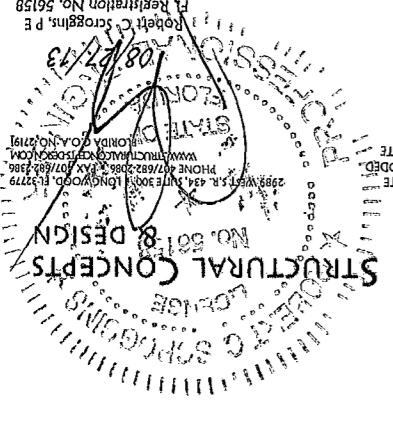
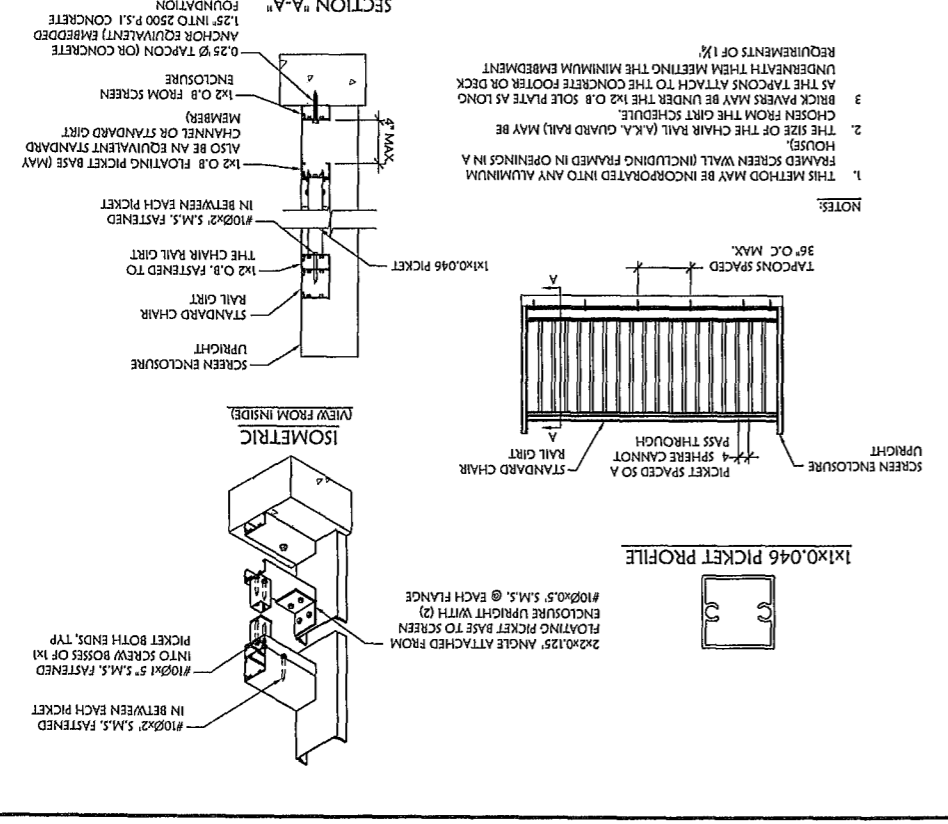


MIN EMBEDMENT DEPTH (INCHES)	FASTENERS TO BEAM	FASTENERS TO CMU HOST	FASTENERS TO WOOD HOST	FASTENERS TO #14 WOOD SCREW
N/A	N/A	#10 S.M.S. #14 S.M.S.	3"	8
N/A	N/A	1/4" TAPCONS 3/8" TAPCONS	6"	8
1.25	1.25	#10 WOOD SCREW	12	12
1.25	8		18	18
12	8		24	24
6"	4		6	6
6"	4		4	4
6"	4		8	8
6"	4		12	12

4 Connection Detail (1x2 Angle Base)



2 Connection Detail (Floating Picket Base)



S-2.8 Sheet

REV.	DATE	DESCRIPTION

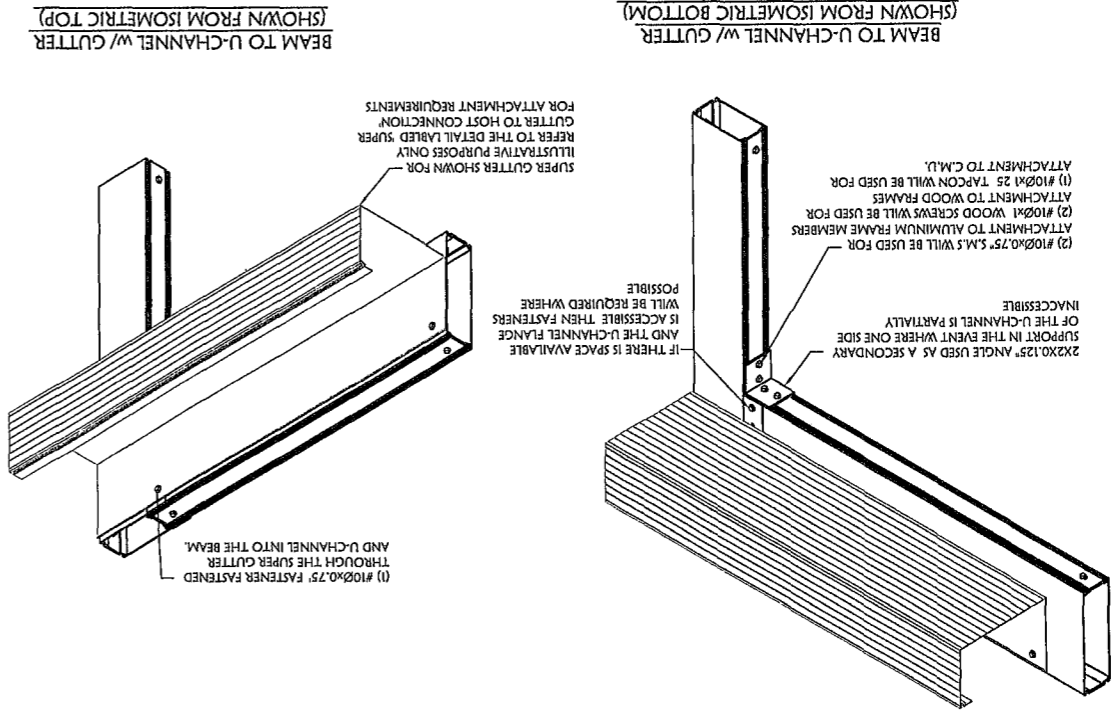
Client: **Florida Pool Enclosures, Inc.**
 200 HIGHWAY 17068 • ALTAMUNTA, GA 30509
 TEL: 770.288.2388 • FAX: 770.288.2378
 WWW.FLORIDAPOLENCLOSURES.COM

Residential Pool Screen Enclosure

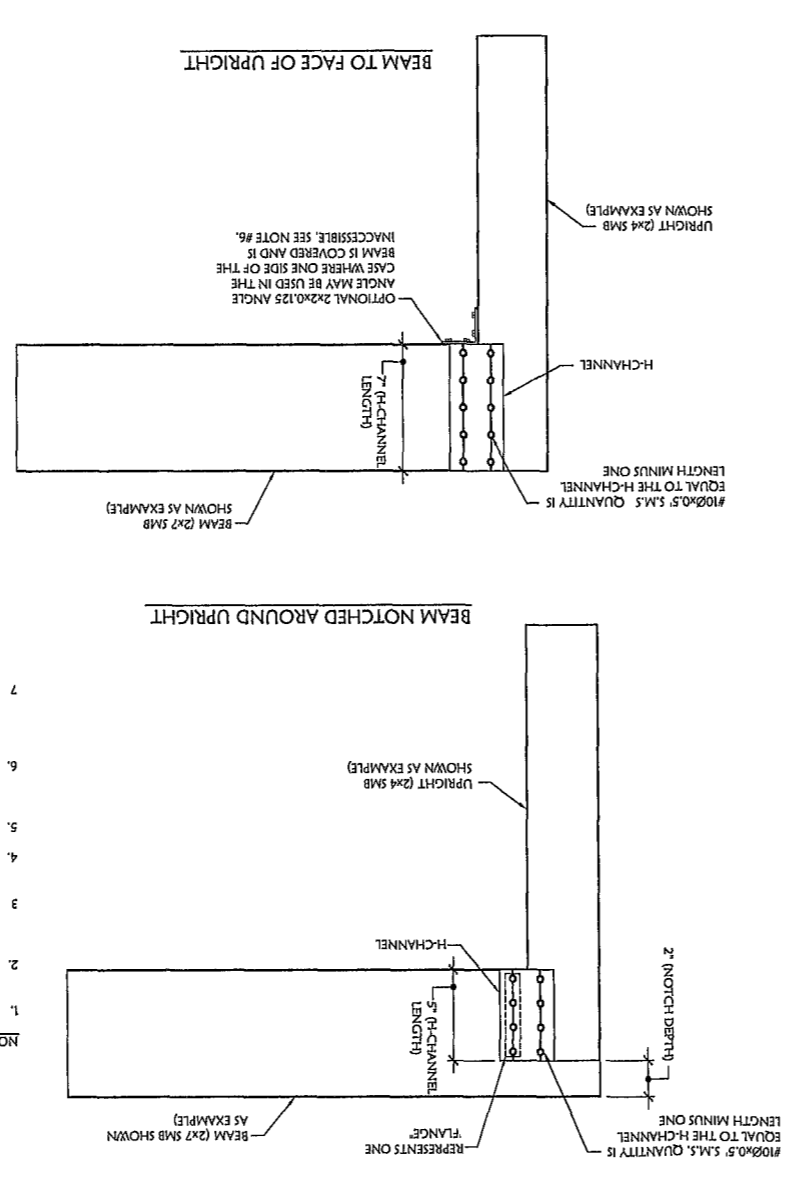
Structural Framing Sections & Details

To the best of the Design Engineer's knowledge, the plans and specifications for this project comply with the applicable minimum building codes as determined by the local authority in accordance with the Florida Statutes.

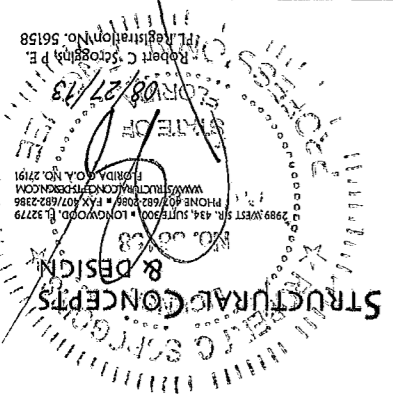
1 Beam to U-Channel w/ Gutter
(SHOWN FROM ISOMETRIC w/ GUTTER)
NTS



2 Beam to Upright (H-Channel) Connection Detail
NTS

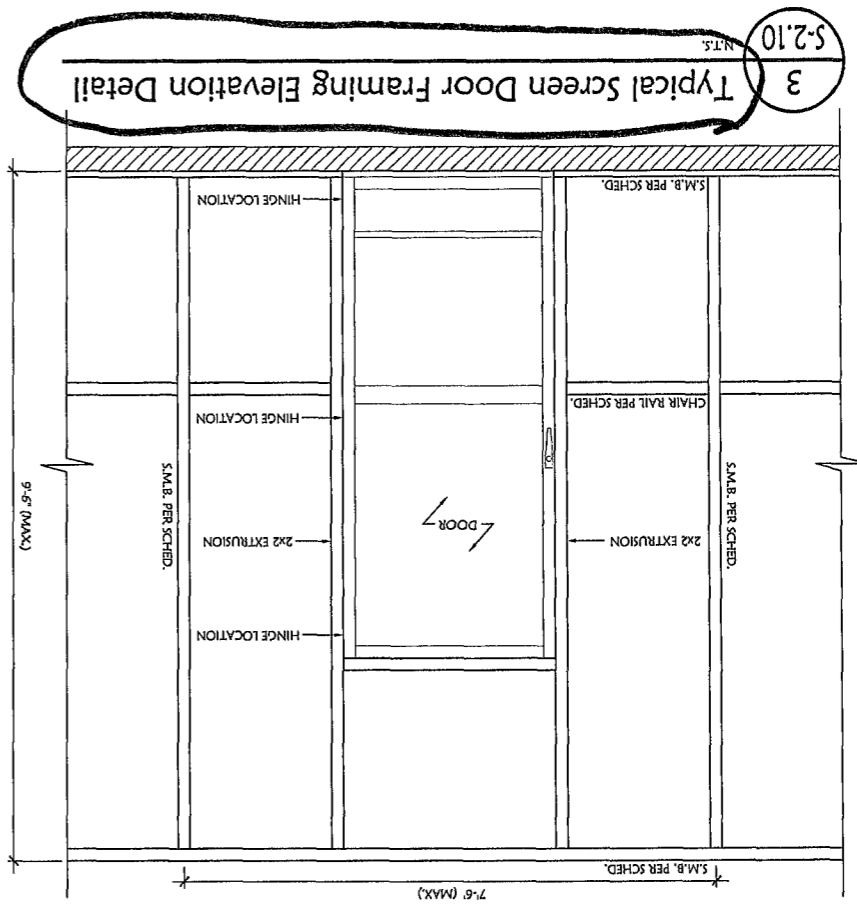


- NOTES:**
- H-CHANNEL LENGTH WILL BE EQUAL TO THE BEAM LENGTH MINUS THE NOTCH DEPTH.
 - KNEE BRACES MAY BE USED IN ADDITION TO THIS CONNECTION BUT ARE OPTIONAL. FOR INFORMATION ABOUT A KNEE BRACE CONNECTION, PLEASE SEE THE DETAIL LABELED "KNEE BRACE CONNECTION".
 - QUANTITY OF SCREWS ON EACH FLANGE MUST BE EQUAL TO THE H-CHANNEL LENGTH MINUS ONE (AS SHOWN IN THE DETAIL).
 - FASTENERS IN H-CHANNEL MAY BE #14@6". ALSO, ANY COMBINATION OF FRAME MEMBERS FOR THE UPRIGHT AND BEAM UPRIGHT SCHEDULE RESPECTIVELY.
 - H-CHANNEL CONFIGURATION AND FRAME-NOTCH SHOW IS IN A VERTICAL VECTOR WITH THE BEAM BEING NOTCHED. THE VECTOR MAY ALSO BE HORIZONTAL WITH THE UPRIGHT NOTCHED ONLY IF THE UPRIGHT DEPTH IS LARGER THAN THE BEAM DEPTH.
 - AN OPTIONAL 2x2x0.125 ANGLE MAY BE USED IN CASES WHERE ONE SIDE OF THE BEAM IS INACCESSIBLE. SEE NOTE #6 IN THE DETAIL BELOW LABELED "BEAM TO FACE OF UPRIGHT".
 - OPTIONAL 2x2x0.125 ANGLE MAY BE USED IN CASES WHERE ONE SIDE OF THE BEAM IS INACCESSIBLE. SEE NOTE #6.
 - UPRIGHT (2x4 S1B) SHOWN AS EXAMPLE.
 - H-CHANNEL LENGTH MINUS ONE (AS SHOWN IN THE DETAIL).
 - QUANTITY OF SCREWS ON EACH FLANGE MUST BE EQUAL TO THE H-CHANNEL LENGTH MINUS ONE (AS SHOWN IN THE DETAIL).
 - ANY COMBINATION OF FRAME MEMBERS FOR THE UPRIGHT AND BEAM UPRIGHT SCHEDULE RESPECTIVELY.
 - FASTENERS IN H-CHANNEL MAY BE #14@6". ALSO, ANY COMBINATION OF FRAME MEMBERS FOR THE UPRIGHT AND BEAM UPRIGHT SCHEDULE RESPECTIVELY.
 - THE CONFIGURATION SHOWN IS THE BEAM BUTTING INTO THE UPRIGHT WITH THE H-CHANNEL LENGTH BEING DRIVEN BY THE BEAM DEPTH. THIS CONFIGURATION MAY BE SWITCHED TO HAVE THE UPRIGHT BUTTING INTO THE H-CANNEL LENGTH BEING DRIVEN BY THE BEAM DEPTH. THIS CONFIGURATION MAY BE SWITCHED TO HAVE THE UPRIGHT BUTTING INTO THE BOTTOM OF THE BEAM AND THE H-CANNEL LENGTH BEING DRIVEN BY THE UPRIGHT DEPTH.
 - BEAM (2x2x0.125 ANGLE IS USED IN LIEU OF ONE INACCESSIBLE SIDE OF UPRIGHT. IF THE INACCESSIBLE SIDE IS ONLY PARTIALLY COVERED, THEN FASTENERS SHOULD BE INSTALLED WHERE POSSIBLE.

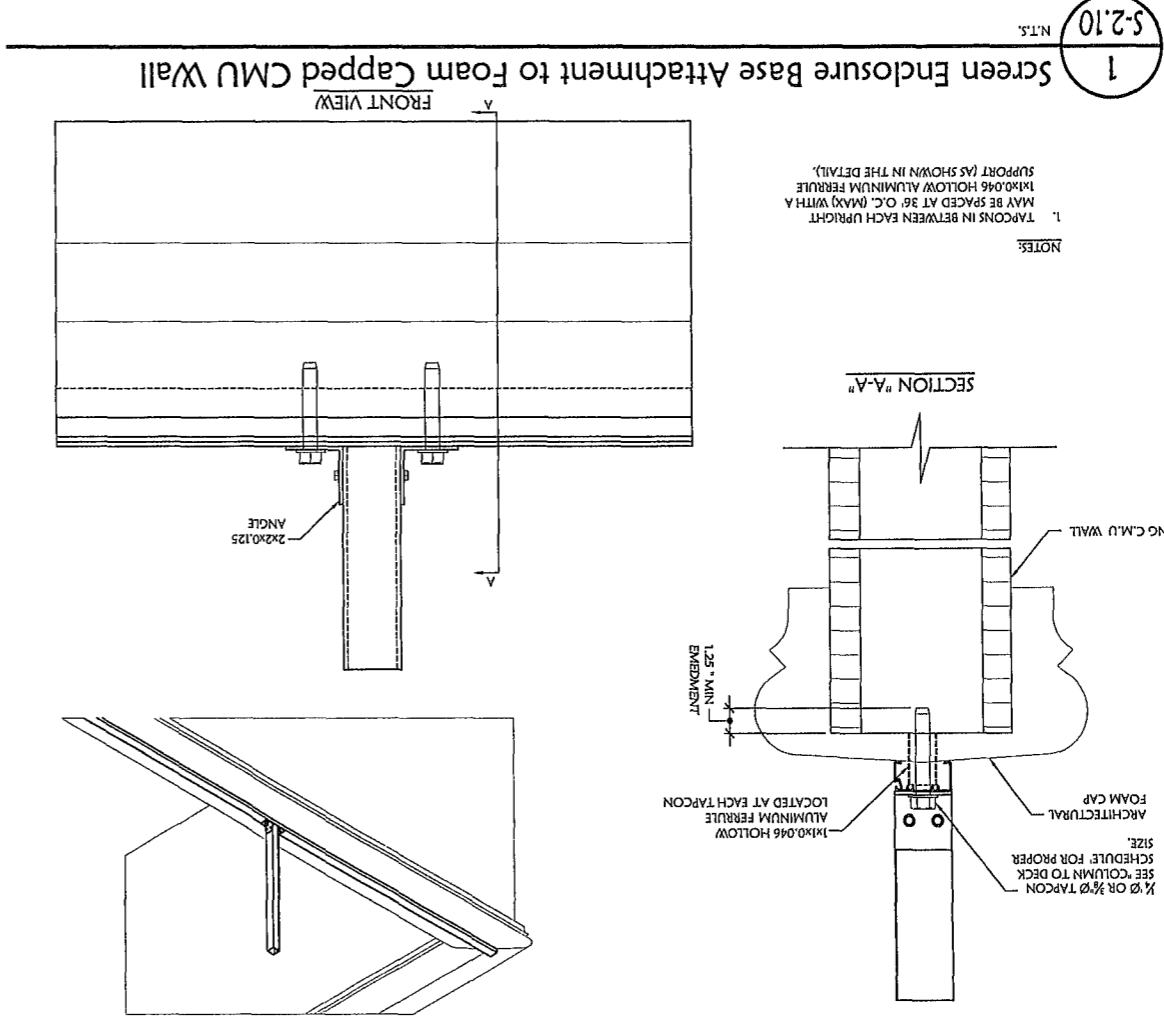


Project: Residential Pool Screen Enclosure, Florida		Client: Florida Pool Enclosures, Inc. 200 HAZEN STREET • AVAILABILITY SERVICES, FL 32709 www.floridapoolenclosures.com	REV.	DATE	DESCRIPTION
Structural Framing Sections & Details					
Project No. #13-002.11	Drawn By: TLW	Checked By: RCS	Date: 08/27/13	Sheet: S-2.9	

To the best of the Design Engineer's knowledge, the plans and specifications for this project comply with the applicable minimum building codes as determined by the local authority in accordance with the Florida Statutes.



- SCREEN DOOR FRAMING NOTES:
1. DOOR TO BE ATTACHED TO STRUCTURE
 2. EACH HINGE TO BE ATTACHED TO STRUCTURE
 3. STRUCTURE W/ MIN. (4) #10x 3/4" S.M.S. EACH HINGE TO BE ATTACHED TO DOOR
 4. W/ MIN. (4) #10x 3/4" S.M.S. BOTTOM HINGE TO BE MOUNTED BETWEEN 10" AND 20" FROM GROUND.
 5. TOP HINGE TO BE MOUNTED BETWEEN 10" AND 20" FROM TOP OF DOOR.
 6. IF DOOR LOCATION IS ADJACENT TO UPRIGHT A 1"x2"x0.046" MAY BE FASTENED TO UPRIGHT W/ #12x1" S.M.S. @ 12" O.C. AND WITHIN 3" FROM END OF UPRIGHT



- NOTES:
1. TAPCONS IN BETWEEN EACH UPRIGHT MUST BE SPACED AT 36" O.C. (MAX) WITH A SUPPORT (AS SHOWN IN THE DETAIL).

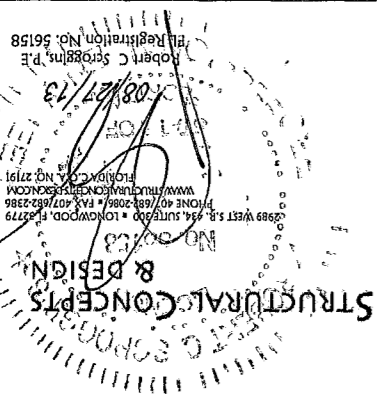
S-2.10		
Sheet	Date: 08/27/13	
	Approved By: RCS	Checked By: RCS
	Drawn By: TLW	Project No. #13-002 11
REV.	DATE	DESCRIPTION

Client:
Florida Pool Enclosures, Inc.
200 HAZARD STREET - ALA BUNGLE TERRACE, FL 32014
www.floridapoolenclosures.com

Project:
Residential Pool Screen Enclosure
Florida

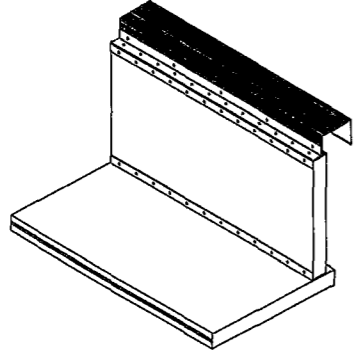
Structural Framing
Sections & Details

To the best of the Design Engineer's knowledge, the plans and specifications for this project comply with the applicable minimum building codes as determined by the local authority in accordance with the Florida Statutes.



2 S-2.10 N.T.S.
Composite Panel Transom Detail

BOTTOM ISOMETRIC VIEW



#10x0.75" S.M.S. WITH A 1.5" NEOPRENE WASHER FASTENED THROUGH THE COMPOSITE PANEL INTO TOP OF RECEIVER CHANNEL, SPACED @ A MAX OF 4" O.C. BOTH SIDES OF CHANNEL.

COMPOSITE TRANSOM PANEL @ A MAXIMUM OF 4" O.C. TYPICAL

DETAIL "B"

#10x0.75" S.M.S. FASTENED INTO COMPOSITE TRANSOM PANEL @ A MAXIMUM OF 4" O.C. TYPICAL. SUPER CUTTER CHANNEL TO BE FLUSH WITH THE INSIDE LIP OF THE SUPER CUTTER. COMPOSITE TRANSOM PANEL NOT SHOWN FOR ILLUSTRATIVE PURPOSES.

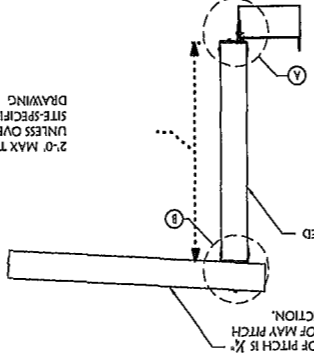
#10x0.75" S.M.S. FASTENED INTO LIP OF SUPER CUTTER @ A MAXIMUM OF 4" O.C.

2X2X0.125" ANGLE

ALONG TRANSOM AT A SPACING NOT TO EXCEED 24" O.C. SEE DETAIL LABELED SUPER CUTTER CONNECTION TO HOST STRUCTURE FOR SPECIFIC CONNECTION DETAILS OF THE STIFFENER.

DETAIL "A"

SIDE ELEVATION

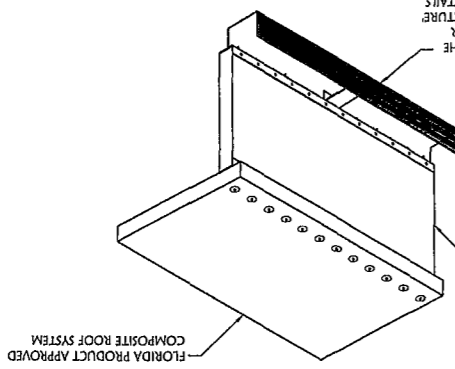


FLORIDA PRODUCT APPROVED
COMPOSITE ROOF SYSTEM
USED AS A TRANSOM

2'-0" MAX TRANSOM HEIGHT
UNLESS OVERWRITTEN IN
SITE-SPECIFIC ENGINEERED
DRAWING

MINIMUM ROOF PITCH IS 1/2"
PER FOOT ROOF MAY FITCH
IN EITHER DIRECTION.

TOP ISOMETRIC VIEW



FLORIDA PRODUCT APPROVED
COMPOSITE ROOF SYSTEM
USED AS A TRANSOM

2'-0" MAX TRANSOM HEIGHT
UNLESS OVERWRITTEN IN
SITE-SPECIFIC ENGINEERED
DRAWING

MINIMUM ROOF PITCH IS 1/2"
PER FOOT ROOF MAY FITCH
IN EITHER DIRECTION.

FLORIDA PRODUCT APPROVED
COMPOSITE ROOF SYSTEM
USED AS A TRANSOM

2'-0" MAX TRANSOM HEIGHT
UNLESS OVERWRITTEN IN
SITE-SPECIFIC ENGINEERED
DRAWING

MINIMUM ROOF PITCH IS 1/2"
PER FOOT ROOF MAY FITCH
IN EITHER DIRECTION.

FLORIDA PRODUCT APPROVED
COMPOSITE ROOF SYSTEM
USED AS A TRANSOM

2'-0" MAX TRANSOM HEIGHT
UNLESS OVERWRITTEN IN
SITE-SPECIFIC ENGINEERED
DRAWING

MINIMUM ROOF PITCH IS 1/2"
PER FOOT ROOF MAY FITCH
IN EITHER DIRECTION.

FLORIDA PRODUCT APPROVED
COMPOSITE ROOF SYSTEM
USED AS A TRANSOM

2'-0" MAX TRANSOM HEIGHT
UNLESS OVERWRITTEN IN
SITE-SPECIFIC ENGINEERED
DRAWING

MINIMUM ROOF PITCH IS 1/2"
PER FOOT ROOF MAY FITCH
IN EITHER DIRECTION.

FLORIDA PRODUCT APPROVED
COMPOSITE ROOF SYSTEM
USED AS A TRANSOM

2'-0" MAX TRANSOM HEIGHT
UNLESS OVERWRITTEN IN
SITE-SPECIFIC ENGINEERED
DRAWING

MINIMUM ROOF PITCH IS 1/2"
PER FOOT ROOF MAY FITCH
IN EITHER DIRECTION.

FLORIDA PRODUCT APPROVED
COMPOSITE ROOF SYSTEM
USED AS A TRANSOM

2'-0" MAX TRANSOM HEIGHT
UNLESS OVERWRITTEN IN
SITE-SPECIFIC ENGINEERED
DRAWING

MINIMUM ROOF PITCH IS 1/2"
PER FOOT ROOF MAY FITCH
IN EITHER DIRECTION.

FLORIDA PRODUCT APPROVED
COMPOSITE ROOF SYSTEM
USED AS A TRANSOM

2'-0" MAX TRANSOM HEIGHT
UNLESS OVERWRITTEN IN
SITE-SPECIFIC ENGINEERED
DRAWING

MINIMUM ROOF PITCH IS 1/2"
PER FOOT ROOF MAY FITCH
IN EITHER DIRECTION.

FLORIDA PRODUCT APPROVED
COMPOSITE ROOF SYSTEM
USED AS A TRANSOM

2'-0" MAX TRANSOM HEIGHT
UNLESS OVERWRITTEN IN
SITE-SPECIFIC ENGINEERED
DRAWING

MINIMUM ROOF PITCH IS 1/2"
PER FOOT ROOF MAY FITCH
IN EITHER DIRECTION.

3x3x0.060 COLUMN SCHEDULE FOR SOLID ROOF/SCREEN ENCLOSURE COMBO

SCREEN ROOF TRIBUTARY WIDTH (FT.)	8	10	12	14	16	18	20	22	24	26
MAXIMUM HEIGHT (FT.)	19.2	19.0	18.8	18.6	18.4	18.2	18.0	17.8	17.6	17.4
COMPOSITE ROOF SPAN OF 6'-0"	16.3	16.1	15.9	15.7	15.5	15.3	15.1	14.9	14.7	14.5
HEIGHTS MAY BE INTERPOLATED, BUT NOT EXTRAPOLATED										

3x3x0.060 COLUMN SCHEDULE FOR SOLID ROOF/SCREEN ENCLOSURE COMBO

SCREEN ROOF TRIBUTARY WIDTH (FT.)	8	10	12	14	16	18	20	22	24	26
MAXIMUM HEIGHT (FT.)	17.8	17.6	17.4	17.2	17.0	16.8	16.6	16.4	16.2	16.0
COMPOSITE ROOF SPAN OF 14'-0"	14.0	13.8	13.6	13.4	13.2	13.0	12.8	12.6	12.4	12.2
HEIGHTS MAY BE INTERPOLATED, BUT NOT EXTRAPOLATED										

3x3x0.092 COLUMN SCHEDULE FOR SOLID ROOF/SCREEN ENCLOSURE COMBO

SCREEN ROOF TRIBUTARY WIDTH (FT.)	8	10	12	14	16	18	20	22	24	26
MAXIMUM HEIGHT (FT.)	19.9	19.8	19.7	19.5	19.4	19.3	19.2	19.1	19.0	18.9
COMPOSITE ROOF SPAN OF 6'-0"	18.4	18.3	18.1	18.0	17.9	17.8	17.7	17.6	17.4	17.2
HEIGHTS MAY BE INTERPOLATED, BUT NOT EXTRAPOLATED										

3x3x0.092 COLUMN SCHEDULE FOR SOLID ROOF/SCREEN ENCLOSURE COMBO

SCREEN ROOF TRIBUTARY WIDTH (FT.)	8	10	12	14	16	18	20	22	24	26
MAXIMUM HEIGHT (FT.)	19.4	19.3	19.1	19.0	18.9	18.7	18.6	18.5	18.4	18.2
COMPOSITE ROOF SPAN OF 14'-0"	15.0	14.8	14.6	14.4	14.3	14.2	14.1	13.9	13.8	13.7
HEIGHTS MAY BE INTERPOLATED, BUT NOT EXTRAPOLATED										

3x3x0.125 COLUMN SCHEDULE FOR SOLID ROOF/SCREEN ENCLOSURE COMBO

SCREEN ROOF TRIBUTARY WIDTH (FT.)	8	10	12	14	16	18	20	22	24	26
MAXIMUM HEIGHT (FT.)	20.7	20.6	20.4	20.3	20.2	20.1	20.0	19.9	19.8	19.8
COMPOSITE ROOF SPAN OF 10'-0"	17.7	17.6	17.5	17.4	17.3	17.2	17.1	17.0	16.9	16.8
HEIGHTS MAY BE INTERPOLATED, BUT NOT EXTRAPOLATED										

3x3x0.060 COLUMN SCHEDULE FOR SOLID ROOF/SCREEN ENCLOSURE COMBO

SCREEN ROOF TRIBUTARY WIDTH (FT.)	8	10	12	14	16	18	20	22	24	26
MAXIMUM HEIGHT (FT.)	18.9	18.7	18.5	18.3	18.1	17.9	17.7	17.5	17.3	17.1
COMPOSITE ROOF SPAN OF 10'-0"	12.7	12.5	12.3	12.1	11.9	11.7	11.5	11.3	11.1	10.9
HEIGHTS MAY BE INTERPOLATED, BUT NOT EXTRAPOLATED										

3x3x0.060 COLUMN SCHEDULE FOR SOLID ROOF/SCREEN ENCLOSURE COMBO

SCREEN ROOF TRIBUTARY WIDTH (FT.)	8	10	12	14	16	18	20	22	24	26
MAXIMUM HEIGHT (FT.)	16.7	16.5	16.3	16.1	15.9	15.7	15.5	15.3	15.1	14.9
COMPOSITE ROOF SPAN OF 18'-0"	11.7	11.5	11.3	11.1	10.9	10.7	10.5	10.3	10.1	9.9
HEIGHTS MAY BE INTERPOLATED, BUT NOT EXTRAPOLATED										

3x3x0.092 COLUMN SCHEDULE FOR SOLID ROOF/SCREEN ENCLOSURE COMBO

SCREEN ROOF TRIBUTARY WIDTH (FT.)	8	10	12	14	16	18	20	22	24	26
MAXIMUM HEIGHT (FT.)	20.1	20.0	19.9	19.7	19.6	19.5	19.3	19.2	19.1	18.9
COMPOSITE ROOF SPAN OF 10'-0"	16.1	15.9	15.8	15.7	15.5	15.4	15.3	15.1	15.0	14.9
HEIGHTS MAY BE INTERPOLATED, BUT NOT EXTRAPOLATED										

3x3x0.092 COLUMN SCHEDULE FOR SOLID ROOF/SCREEN ENCLOSURE COMBO

SCREEN ROOF TRIBUTARY WIDTH (FT.)	8	10	12	14	16	18	20	22	24	26
MAXIMUM HEIGHT (FT.)	18.7	18.5	18.4	18.3	18.2	18.0	17.9	17.8	17.6	17.5
COMPOSITE ROOF SPAN OF 18'-0"	13.0	12.8	12.7	12.6	12.5	12.3	12.2	12.1	11.9	11.8
HEIGHTS MAY BE INTERPOLATED, BUT NOT EXTRAPOLATED										

4x4x0.125 COLUMN SCHEDULE FOR SOLID ROOF/SCREEN ENCLOSURE COMBO

SCREEN ROOF TRIBUTARY WIDTH (FT.)	8	10	12	14	16	18	20	22	24	26
MAXIMUM HEIGHT (FT.)	21.2	21.1	21.0	20.9	20.9	20.8	20.7	20.7	20.6	20.5
COMPOSITE ROOF SPAN OF 10'-0"	18.9	18.8	18.7	18.6	18.5	18.4	18.3	18.2	18.1	18.0
HEIGHTS MAY BE INTERPOLATED, BUT NOT EXTRAPOLATED										

CARRY BEAM SCHEDULE FOR SOLID ROOF/SCREEN ENCLOSURE COMBO

SCREEN ROOF TRIBUTARY WIDTH (FT.)	8	10	12	14	16	18	20	22	24	26
EFFECTIVE SPAN (FT.)	10.1	9.4	8.8	8.4	8.0	7.7	7.3	6.8	6.2	5.9
COMPOSITE ROOF SPAN OF 6'-0"	27.7	26.8	26.1	25.5	25.1	24.6	24.0	23.4	22.7	22.4
MEMBER TYPE	2x9 TFB	2x7 TFB	2x5 TFB	2x5 TFB	2x5 TFB	2x5 TFB	2x5 TFB	2x5 TFB	2x5 TFB	2x5 TFB

CARRY BEAM SCHEDULE FOR SOLID ROOF/SCREEN ENCLOSURE COMBO

SCREEN ROOF TRIBUTARY WIDTH (FT.)	8	10	12	14	16	18	20	22	24	26
EFFECTIVE SPAN (FT.)	8.9	8.3	7.8	7.4	7.1	6.8	6.5	6.0	5.5	5.5
COMPOSITE ROOF SPAN OF 10'-0"	24.5	23.7	23.1	22.6	22.2	21.8	21.2	20.7	20.1	19.8
MEMBER TYPE	2x9 TFB	2x7 TFB	2x5 TFB	2x5 TFB	2x5 TFB	2x5 TFB	2x5 TFB	2x5 TFB	2x5 TFB	2x5 TFB

CARRY BEAM SCHEDULE FOR SOLID ROOF/SCREEN ENCLOSURE COMBO

SCREEN ROOF TRIBUTARY WIDTH (FT.)	8	10	12	14	16	18	20	22	24	26
EFFECTIVE SPAN (FT.)	11.1	10.3	9.7	9.2	8.8	8.4	8.0	7.3	6.8	6.3
COMPOSITE ROOF SPAN OF 10'-0"	20.9	20.4	19.9	19.4	18.8	18.5	18.1	17.8	17.2	16.7
MEMBER TYPE	2x4 SMB	2x4 SMB	2x4 SMB	2x4 SMB	2x4 SMB	2x4 SMB	2x4 SMB	2x4 SMB	2x4 SMB	2x4 SMB

CARRY BEAM SCHEDULE FOR SOLID ROOF/SCREEN ENCLOSURE COMBO

SCREEN ROOF TRIBUTARY WIDTH (FT.)	8	10	12	14	16	18	20	22	24	26
EFFECTIVE SPAN (FT.)	17.1	16.5	15.8	15.4	14.8	14.5	14.1	13.2	12.2	11.4
COMPOSITE ROOF SPAN OF 18'-0"	17.1	16.5	15.8	15.4	14.8	14.5	14.1	13.2	12.2	11.4
MEMBER TYPE	2x4 SMB	2x4 SMB	2x4 SMB	2x4 SMB	2x4 SMB	2x4 SMB	2x4 SMB	2x4 SMB	2x4 SMB	2x4 SMB

CARRY BEAM SCHEDULE FOR SOLID ROOF/SCREEN ENCLOSURE COMBO

SCREEN ROOF TRIBUTARY WIDTH (FT.)	8	10	12	14	16	18	20	22	24	26
EFFECTIVE SPAN (FT.)	7.0	6.6	6.2	5.8	5.6	5.4	5.1	4.7	4.3	4.1
COMPOSITE ROOF SPAN OF 18'-0"	19.4	18.7	18.2	17.9	17.5	17.2	16.7	16.4	15.9	15.6
MEMBER TYPE	2x4 SMB	2x4 SMB	2x4 SMB	2x4 SMB	2x4 SMB	2x4 SMB	2x4 SMB	2x4 SMB	2x4 SMB	2x4 SMB

1 ALL ALUMINUM FRAME MEMBER TABLES SHOWN ARE CALCULATED FOR EXPOSURE IN "B" TYPE TERRAIN. IF EXPOSURE "C" IS REQUIRED, THEN MULTIPLY THE FIGURES IN THE TABLE BY 0.82.

CARRY BEAM SCHEDULE FOR SOLID ROOF/SCREEN ENCLOSURE COMBO

SCREEN ROOF TRIBUTARY WIDTH (FT.)	8	10	12	14	16	18	20	22	24	26
EFFECTIVE SPAN (FT.)	7.9	7.4	6.9	6.6	6.2	5.8	5.3	4.9	4.6	4.6
COMPOSITE ROOF SPAN OF 14'-0"	19.7	19.1	18.9	18.5	18.0	17.4	17.0	16.6	16.1	15.5
MEMBER TYPE	2x4 SMB	2x4 SMB	2x4 SMB	2x4 SMB	2x4 SMB	2x4 SMB	2x4 SMB	2x4 SMB	2x4 SMB	2x4 SMB

CARRY BEAM SCHEDULE FOR SOLID ROOF/SCREEN ENCLOSURE COMBO

SCREEN ROOF TRIBUTARY WIDTH (FT.)	8	10	12	14	16	18	20	22	24	26
EFFECTIVE SPAN (FT.)	12.2	11.7	11.5	11.1	10.8	10.6	10.4	10.1	9.6	9.0
COMPOSITE ROOF SPAN OF 18'-0"	19.4	18.7	18.2	17.9	17.5	17.2	16.7	16.4	15.9	15.6
MEMBER TYPE	2x9 TFB	2x7 TFB	2x5 TFB	2x5 TFB	2x5 TFB	2x5 TFB	2x5 TFB	2x5 TFB	2x5 TFB	2x5 TFB

CARRY BEAM SCHEDULE FOR SOLID ROOF/SCREEN ENCLOSURE COMBO

SCREEN ROOF TRIBUTARY WIDTH (FT.)	8	10	12	14	16	18	20	22	24	26
EFFECTIVE SPAN (FT.)	12.2	11.7	11.5	11.1	10.8	10.6	10.4	10.1	9.6	9.0
COMPOSITE ROOF SPAN OF 18'-0"	19.4	18.7	18.2	17.9	17.5	17.2	16.7	16.4	15.9	15.6
MEMBER TYPE	2x9 TFB	2x7 TFB	2x5 TFB	2x5 TFB	2x5 TFB	2x5 TFB	2x5 TFB	2x5 TFB	2x5 TFB	2x5 TFB

CARRY BEAM SCHEDULE FOR SOLID ROOF/SCREEN ENCLOSURE COMBO

SCREEN ROOF TRIBUTARY WIDTH (FT.)	8	10	12	14	16	18	20	22	24	26
EFFECTIVE SPAN (FT.)	12.2	11.7	11.5	11.1	10.8	10.6	10.4	10.1	9.6	9.0
COMPOSITE ROOF SPAN OF 18'-0"	19.4	18.7	18.2	17.9	17.5	17.2	16.7	16.4	15.9	15.6
MEMBER TYPE	2x9 TFB	2x7 TFB	2x5 TFB	2x5 TFB	2x5 TFB	2x5 TFB	2x5 TFB	2x5 TFB	2x5 TFB	2x5 TFB

CARRY BEAM SCHEDULE FOR SOLID ROOF/SCREEN ENCLOSURE COMBO

SCREEN ROOF TRIBUTARY WIDTH (FT.)	8	10	12	14	16	18	20	22	24	26
EFFECTIVE SPAN (FT.)	12.2	11.7	11.5	11.1	10.8	10.6	10.4	10.1	9.6	9.0
COMPOSITE ROOF SPAN OF 18'-0"	19.4	18.7	18.2	17.9	17.5	17.2	16.7	16.4	15.9	15.6
MEMBER TYPE	2x9 TFB	2x7 TFB	2x5 TFB	2x5 TFB	2x5 TFB	2x5 TFB	2x5 TFB	2x5 TFB	2x5 TFB	2x5 TFB

STRUCTURAL CONCEPTS & DESIGN
 Robert C. Peroginis, P.E.
 Registration No. 56158
 388 WEST S.W. 134th AVE., SUITE 300 • LONGWOOD, FL 32779
 PHONE 407/662-2366 • FAX 407/662-2366
 WWW.SCANDINAVIANDESIGN.COM

Project No. #13-002 11
 Drawn By: TLW
 Checked By: RCS
 Approved By: RCS
 Date: 08/27/13
 Sheet: S-2.11

Florida Pool Enclosures, Inc.
 2514 US Highway 1, Titusville, Florida 32781
 Phone: 321-265-4664
 Fax: 321-265-4664
 www.floridapoolenclosures.com

Residential Pool Screen Enclosure
 Structural Column/Beam Schedules for Solid Roof

To the best of the Design Engineer's knowledge, the plans and specifications for this project comply with the applicable minimum building codes as determined by the local authority in accordance with the Florida Statutes.