DATE 08/13/2009

Columbia County Building Permit

This Permit Must Be Prominently Posted on Premises During Construction

PERMIT
000028006

APPLICANT CRAIG TIMBERLKE PHONE 352.472.6850

ADDRESS 25370 NW 8 PLACE NEWBERRY FL 32669

OWNER ANTHONY J. TROTT,(CEMJET,LLC.) PHONE

ADDRESS 193 NW WHITTON CT. LAKE CITY FL 32025

CONTRACTOR CARL HELMS PHONE 352.472.6850

LOCATION OF PROPERTY 90-W TO BROWN RD,TR TO HIGH POINTE FARMS,TL AND IT'S THE 2ND PLACE ON R.

TYPE DEVELOPMENT POOL ENCLOSURE ESTIMATED COST OF CONSTRUCTION 6524.00

HEATED FLOOR AREA TOTAL AREA HEIGHT STORIES

FOUNDATION WALLS ROOF PITCH FLOOR

LAND USE & ZONING PRRD MAX. HEIGHT

Minimum Set Back Requirments: STREET-FRONT 30.00 REAR 25.00 SIDE 25.00

NO. EX.D.U. 0 FLOOD ZONE X DEVELOPMENT PERMIT NO.

PARCEL ID 20-3S-16-02202-125 SUBDIVISION HIGH POINTE

LOT 25 BLOCK PHASE UNIT TOTAL ACRES 2.01

Culvert Permit No.	Culvert Waiver	Contractor's License Number	Applicant/Owner/Contractor	
		SCC056710		
EXISTING	X-09-225	BLK	HD	N
Driveway Connection	Septic Tank Number	LU & Zoning checked by	Approved for Issuance	New Resident

COMMENTS: NOC ON FILE.

Check # or Cash 1862

FOR BUILDING & ZONING DEPARTMENT ONLY

(footer/Slab)

Temporary Power date/app. by Foundation date/app. by Monolithic date/app. by

Under slab rough-in plumbing date/app. by Slab date/app. by Sheathing/Nailing date/app. by

Framing date/app. by Insulation date/app. by

Rough-in plumbing above slab and below wood floor date/app. by Electrical rough-in date/app. by

Heat & Air Duct date/app. by Peri. beam (Lintel) date/app. by Pool date/app. by

Permanent power date/app. by C.O. Final date/app. by Culvert date/app. by

Pump pole date/app. by Utility Pole date/app. by M/H tie downs, blocking, electricity and plumbing date/app. by

Reconnection date/app. by RV date/app. by Re-roof date/app. by

BUILDING PERMIT FEE $ 35.00 CERTIFICATION FEE $ 0.00 SURCHARGE FEE $ 0.00

MISC. FEES $ 0.00 ZONING CERT. FEE $ FIRE FEE $ 0.00 WASTE FEE $

FLOOD DEVELOPMENT FEE $ FLOOD ZONE FEE $ CULVERT FEE $ **TOTAL FEE** 35.00

INSPECTORS OFFICE CLERKS OFFICE CH

NOTICE: IN ADDITION TO THE REQUIREMENTS OF THIS PERMIT, THERE MAY BE ADDITIONAL RESTRICTIONS APPLICABLE TO THIS PROPERTY THAT MAY BE FOUND IN THE PUBLIC RECORDS OF THIS COUNTY. AND THERE MAY BE ADDITIONAL PERMITS REQUIRED FROM OTHER GOVERNMENTAL ENTITIES SUCH AS WATER MANAGEMENT DISTRICTS, STATE AGENCIES, OR FEDERAL AGENCIES.

"WARNING TO OWNER: YOUR FAILURE TO RECORD A NOTICE OF COMMENCEMENT MAY RESULT IN YOUR PAYING TWICE FOR IMPROVEMENTS TO YOUR PROPERTY. IF YOU INTEND TO OBTAIN FINANCING, CONSULT WITH YOUR LENDER OR AN ATTORNEY BEFORE RECORDING YOUR NOTICE OF COMMENCEMENT."

EVERY PERMIT ISSUED SHALL BECOME INVALID UNLESS THE WORK AUTHORIZED BY SUCH PERMIT IS COMMENCED WITHIN 180 DAYS AFTER ITS ISSUANCE, OR IF THE WORK AUTHORIZED BY SUCH PERMIT IS SUSPENDED OR ABANDONED FOR A PERIOD OF 180 DAYS AFTER THE TIME THE WORK IS COMMENCED. A VALID PERMIT RECIEVES AN APPROVED INSPECTION EVERY 180 DAYS. WORK SHALL BE CONSIDERED NOT SUSPENDED, ABANDONED OR INVALID WHEN THE PERMIT HAS RECIEVED AN APPROVED INSPECTION WITHIN 180 DAYS OT THE PREVIOUS INSPECTION.

The Issuance of this Permit Does Not Waive Compliance by Permittee with Deed Restrictions.

Columbia County Building Permit Application

For Office Use Only Application # 0907-53 Date Received 7/30 By JW Permit # 28006

Zoning Official BLK Date 07.08.09 Flood Zone X Land Use A-3 Zoning PRRD

FEMA Map # N/A Elevation N/A MFE N/A River N/A Plans Examiner HD Date 8-6-09

Comments

~~NOC~~ ~~EH~~ Deed or PA ~~Site Plan~~ ~~State~~ Road Info Parent Parcel #

Dev Permit # In Floodway ~~Letter of Auth. from Contractor~~ SW file F W Comp. letter

IMPACT FEES: EMS Fire Corr Road/Code

School =TOTAL Accessory Use N/A

Septic Permit No. X-09-22 5 - IN BOX, Fax 352-472 6 855

Name Authorized Person Signing Permit Craig Timberlake Phone 352-472-6850

Address 25370 NW 8pl Newberry Fl 32669

Owners Name Cemjat LLC - Anthony J. Trott Phone

911 Address 193 NW Whitton Ct L.C. 32025

Contractors Name Timberlake Aluminum Construction Inc - Craig Helms Phone ~~25370~~ 352-472-6850

Address 25370 NW 8 Place, Newberry, Fl 32669

Fee Simple Owner Name & Address N/A

Bonding Co. Name & Address N/A

Architect/Engineer Name & Address N/A

Mortgage Lenders Name & Address First Federal

Circle the correct power company – FL Power & Light – Clay Elec. – Suwannee Valley Elec. – Progress Energy

Property ID Number 20-35-16-02202-125 Estimated Cost of Construction 6,524.00

Subdivision Name High Point ~~Farms~~ Lot 25 Block 20 Unit Phase

Driving Directions 90 West to Brown Road T/R to High Point Farms T/L 2nd Place on R.

Number of Existing Dwellings on Property 1

Construction of Pool Enclosure over Existing Pool Total Acreage 2.01 Lot Size

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 ~~250'~~ Side ~~60'~~ Side ~~60'~~ Rear ~~75~~

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.

Spoke to Craig on 8-11-09 / H

Columbia County Building Permit Application

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

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

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

NOTICE OF RESPONSIBILITY TO BUILDING PERMITEE:

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

WARNING TO OWNER: YOUR FAILURE TO RECORD A NOTICE OF COMMENCMENT MAY RESULT IN YOU PAYING TWICE FOR IMPROVEMENTS TO YOUR PROPERTY. A NOTICE OF COMMENCEMENT MUST BE RECORDED AND POSTED ON THE JOB SITE BEFORE THE FIRST INSPECTION. IF YOU INTEND TO OBTAIN FINANCING, CONSULT WITH YOUR LENDER OR ATTORNEY BEFORE RECORDING YOUR NOTICE OF COMMENCEMENT.

OWNERS CERTIFICATION: I hereby certify that all the foregoing information is accurate and all work will be done in compliance with all applicable laws and regulating construction and zoning. I further understand the above written responsibilities in Columbia County for obtaining this Building Permit.

_____

Owners Signature

CONTRACTORS AFFIDAVIT: By my signature I understand and agree that I have informed and provided this written statement to the owner of all the above written responsibilities in Columbia County for obtaining this Building Permit.

_____

Contractor's Signature (Permitee)

Contractor's License Number SCC056710

Columbia County
Competency Card Number _____

Affirmed under penalty of perjury to by the Contractor and subscribed before me this 12 **day of** Aug **20** 09.

Personally known ✓ **or Produced Identification** _____

_____ **SEAL:**

State of Florida Notary Signature (For the Contractor)

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

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OWNERS CERTIFICATION: I hereby certify that all the foregoing information is accurate and all work will be done in compliance with all applicable laws and regulating construction and zoning. I further understand the above written responsibilities in Columbia County for obtaining this Building Permit.

_____
Owners Signature

Owners Signature keep as the Original. L. Hoot

CONTRACTORS AFFIDAVIT: By my signature I understand and agree that I have informed and provided this written statement to the owner of all the above written responsibilities in Columbia County for obtaining this Building Permit.

_____
Contractor's Signature (Permitee)

Contractor's License Number CRC057105
Columbia County
Competency Card Number _____

Affirmed under penalty of perjury to by the Contractor and subscribed before me this 21st **day of** July **20**08.

Personally known ✓ **or Produced Identification** _____

_____
State of Florida Notary Signature (For the Contractor)

SEAL:

NOTARY PUBLIC
BARBARA DOONAN
Notary Public, State of Florida
Commission# DD690991
My comm. expires Aug. 10, 2011

11:50:31 AM 8/7/2009

Licensee Details

Licensee Information

Name:	**HELMS, CARL RICHARD (Primary Name)** **TIMBERLAKE ALUMINUM CONSTRUCTION INC (DBA Name)**
Main Address:	***Private Address* *Private Address*** ***Private Address*** ***Private Address*** ***Private Address***
License Mailing:	
LicenseLocation:	**2265 N SKEETER TERRACE** **HERNANDO FL 34442**
County:	**CITRUS**

License Information

License Type:	**Certified Specialty Contractor**
Rank:	**Cert Specialty**
License Number:	**SCC056710**
Status:	**Current,Active**
Licensure Date:	**07/17/1996**
Expires:	**08/31/2010**

Special Qualifications	Qualification Effective
Qualified Business License Required	02/20/2004
Specialty Structure	

View Related License Information

View License Complaint

Inst:200912012773 Date:7/30/2009 Time:4:18 PM
DC,P.DeWitt Cason,Columbia County Page 1 of 1 B:1178 P:476

NOTICE OF COMMENCEMENT
STATE OF FLORIDA COUNTY OF Columbia **CITY OF** Lake City

THE UNDERSIGNED hereby gives notice that improvement(s) will be made to certain real property, and in accordance with Chapter713, Florida Statutes, the following information is provided in this Notice of Commencement.

DESCRIPTION OF PROPERTY:
LOT 25 BLOCK 20 SECTION 35 TOWNSHIP 03 RANGE 16
TAX PARCEL # 07220425
SUBDIVISION: High Point Farms
PLATBOOK: MAP PAGE#
STREETADDRESS: 193 N.W Whitton Court Lake City Fl 32025

GENERAL DESCRIPTION OF IMPROVEMENT:
TO CONSTRUCT: Screen Enclosure
OWNER INFORMATION:
OWNER(S)NAME: Cemjat & Dr. Trott
ADDRESS: 193 N.W Whitton Ct. PHONE 755 2848
CITY: Lake City STATE Fl ZIP 32025
INTEREST IN THE PROPERTY: Owner
FEE SIMPLE TITLEHOLDER NAME: N/A
FEE SIMPLE TITLEHOLDER ADDRESS:(IF OTHER THAN OWNER)
N/A
CONTRACTOR NAME: Timberlake Plumbing
Address: 25370 N.W 8th Pl Newberry Fl 32669
BONDING COMPANY: N/AADDRESS: N/A PHONE NUMBER N/A
CITY: N/A STATE N/A ZIP CODE : N/A
LENDER NAME: None
ADDRESS :n/a PHONE N/A
CITY:N/A STATE N/A _Zip: N/A

Prepared by: Peeler Pools, Inc. (Raymond Peeler)
Return to : Peeler Pools, Inc. 9878 S. US Hwy 441 Lake City, Fl 32025

Persons within the State of Florida designated by Owner upon whom notices or other documents may be served as provided by Section 713.13(1) (a) 7., Florida Statutes.
NAME: None ADDRESS: N/A
In addition to himself, Owner designates: Raymond Peeler of Peeler Pools, Inc.
9878 S US Hwy 441 Lake City, Fl 32025
to receive a copy of the Lienor's Notice as provided in Section 713.13 (1) (b), Florida Statutes.

Expiration date is 1 year from date of recording unless a different date is specified.

~~**SIGNATURE OF OWNER**~~
SWORN to and subscribed before me this 6th day of Oct year of 2008
Notary Public My commission expires 9-15-2009
Owner's Signature:
Notary Signature: Alice B. Peeler

*****WARNING TO OWNER: ANY PAYMENTS ~~MADE BY~~ THE ~~OWNER~~ AFTER THE EXPIRATION OF NOTICE OF ~~COMMENCEMENT ARE~~ CONSIDERED IMPROPER PAYMENTS UNDER CHAPTER 713, PART 1, SECTION 713.13, FLORIDA STATUTES, AND CAN RESULT IN YOURPAYING TWICE FOR IMPROVEMENTS TO YOUR PROPERTY. A NOTICE OF COMMENCEMENT MUST BE RECORDED AND POSTED ON THE JOB SITE BEFORE THE FIRST INSPECTION. IF YOU INTEND TO OBTAIN FINANCING, CONSULT WITH YOUR LENDER OR AN ATTORNEY BEFORE COMMENCING WORK OR RECORDING YOUR NOTICE OF COMMENCEMENT.**

NOTARY PUBLIC STATE OF FLORIDA
ALICE B PEELER
MY COMMISSION # DD472231
EXPIRES: Sept. 15, 2009
(407) 398-0153 Florida Notary Service.com

THIS INSTRUMENT WAS PREPARED BY:

TERRY McDAVID
POST OFFICE BOX 1328
LAKE CITY, FL 32056-1328

RETURN TO:

TERRY McDAVID
POST OFFICE BOX 1328
LAKE CITY, FL 32056-1328

File No. 08-70

Property Appraiser's
Parcel Identification No.
20-3S-[redacted]

Recording Fee $ 18.50
Documentary Stamp $ 454.20
Consideration $ 64,885.00

Inst:200812014737 Date:8/7/2008 Time:12:00 PM
Doc Stamp-Deed:454.30
DC,P.DeWitt Cason,Columbia County Page 1 of 2 B:1156 P:277

WARRANTY DEED

THIS INDENTURE, made this 6th day of August 2008, BETWEEN CEMJAT, LLC, a Florida limited liability company, whose post office address is Post Office Box 2691, Lake City, Florida 32056, of the County of Columbia, State of Florida, grantor*, and J. ANTHONY TROTT, whose post office address is Post Office Box 2691, Lake City, Florida 32056, of the County of Columbia, State of Florida, grantee*.

WITNESSETH: that said grantor, for and in consideration of the sum of Ten Dollars ($10.00), and other good and valuable considerations to said grantor in hand paid by said grantee, the receipt whereof is hereby acknowledged, has granted, bargained and sold to the said grantee, and grantee's heirs and assigns forever, the following described land, situate, lying and being in Columbia County, Florida, to-wit:

Lot 25, HIGH POINTE, a subdivision according to the plat thereof as recorded in PRRD Book 1, Pages 28-31 of the public records of Columbia County, Florida.

SUBJECT TO: Restrictions, easements and outstanding mineral rights of record, if any, and taxes for the current year.

and said grantor does hereby fully warrant the title to said land, and will defend the same against the lawful claims of all persons whomsoever.

**"Grantor" and "grantee" are used for singular or plural, as context requires.

IN WITNESS WHEREOF, grantor has hereunto set grantor's hand and seal the day and year first above written.

Signed, sealed and delivered
in our presence:

CEMJAT, LLC

(First Witness)

By: (SEAL)
J. Anthony Trott, MGRM

Terry McDavid
Printed Name

(Second Witness)

Lisa C. Ogburn
Printed Name

STATE OF FLORIDA
COUNTY OF COLUMBIA

The foregoing instrument was acknowledged before me this 6th day of August 2008, by J. Anthony Trott, as Managing Member of CEMJAT, LLC, a Florida limited liability company, who is personally known to me and who did not take an oath.

My Commission Expires:

Notary Public

TERRY MCDAVID
MY COMMISSION # DD 500788
EXPIRES: January 16, 2010
Bonded Thru Notary Public Underwriters

LOT 25 HIGH POINTE S/D
WD 1128-449, WD 1129-1721.
CWD 1142-2747, CWD 1143-437,
WD 1156-277

TROTT J ANTHONY
P O BOX 2691
LAKE CITY, FL 32056

20-3S-16-02202-125

Columbia County 2009 R
CARD 001 of 001
PRINTED 7/08/2009 9:53 BY JEFF
APPR 11/27/2007 CM

BUSE AE?
MOD BATH
EXW FIXT
% BDRM
RSTR RMS
RCVR UNTS
% C-W%
INTW HGHT
% PMTR
FLOR STYS
% ECON
HTTP FUNC
A/C SPCD
QUAL DEPR
FNDN UD-1
SIZE UD-2
CEIL UD-3
ARCH UD-4
FRME UD-5
KTCH UD-6
WNDO UD-7
CLAS UD-8
OCC UD-9
COND %
SUB A-AREA % E-AREA SUB VALUE

TOTAL

HTD AREA .000 INDEX 20316.00 DIST 3 PUSE 000000 VACANT
EFF AREA 63.806 E-RATE .000 INDX STR 20- 3S- 16
RCN AYB MKT AREA 01 0 BLDG
%GOOD BLDG VAL EYB (PUD1 0 XFOB
AC 2.010 50,250 LAND
NTCD 0 AG
APPR CD 0 MKAG
CNDO 50,250 JUST
SUBD 0 CLAS
BLK
LOT 0 SOHD
MAP# 0 ASSD
0 EXPT
TXDT 003 0 COTXBL

FIELD CK:
LOC:

BLDG TRAVERSE

PERMITS

NUMBER	DESC	AMT	ISSUED
27309	POOL	315	9/03/2008
26693	SFR	1,915	1/30/2008

SALE

BOOK	PAGE	DATE		PRICE
1156	277	8/06/2008	Q V	64900
GRANTOR CENJAT LLC				
GRANTEE J ANTHONY TROTT				
1129	1721	8/23/2007	U V	79900
GRANTOR KEVIN H & HEATHER GRAY				
GRANTEE CEMJAT LLC				

-------EXTRA FEATURES------ FIELD CK:

AE	BN	CODE	DESC	LEN	WID	HGHT	QTY	QL	YR	ADJ	UNITS	UT	PRICE	ADJ UT PR	SPCD %	%GOOD	XFOB VALUE

AE	LAND CODE	DESC	ZONE	TOPO	ROAD	UTIL	UD1	UD2	UD3	UD4	FRONT	BACK	DEPTH	DT	ADJUSTMENTS	UNITS	UT	PRICE	ADJ UT PR	LAND VALUE
Y	000000	VAC RES	PRRD 0002		0007										1.00 1.00 1.00 1.00	2.010	AC	25000.000	25000.00	50,250

Columbia County Property Appraiser

DB Last Updated: 7/22/2009

2009 Preliminary Values

Tax Record | Property Card | Interactive GIS Map | Print

Parcel: 20-3S-16-02202-125

Search Result: 1 of 1

Owner & Property Info

Owner's Name	TROTT J ANTHONY		
Site Address			
Mailing Address	P O BOX 2691 LAKE CITY, FL 32056		
Use Desc. (code)	VACANT (000000)		
Neighborhood	020316.00	**Tax District**	3
UD Codes	MKTA01	**Market Area**	01
Total Land Area	2.010 ACRES		
Description	LOT 25 HIGH POINTE S/D WD 1128-449, WD 1129-1721. CWD 1142-2747, CWD 1143-437, WD 1156-277		

GIS Aerial

Property & Assessment Values

Mkt Land Value	cnt: (1)	$50,250.00
Ag Land Value	cnt: (0)	$0.00
Building Value	cnt: (0)	$0.00
XFOB Value	cnt: (0)	$0.00
Total Appraised Value		$50,250.00

Just Value	$50,250.00
Class Value	$0.00
Assessed Value	$50,250.00
Exemptions	$0.00
Total Taxable Value	County: $50,250.00 | City: $50,250.00 Other: $50,250.00 | School: $50,250.00

Sales History

Sale Date	Book/Page	Inst. Type	Sale Vlmp	Sale Qual	Sale RCode	Sale Price
8/6/2008	1156/277	WD	V	Q		$64,900.00
8/23/2007	1129/1721	WD	V	U	09	$79,900.00
8/8/2007	1128/449	WD	V	U	09	$79,900.00

Building Characteristics

Bldg Item	Bldg Desc	Year Blt	Ext. Walls	Heated S.F.	Actual S.F.	Bldg Value
NONE						

Extra Features & Out Buildings

Code	Desc	Year Blt	Value	Units	Dims	Condition (% Good)
NONE						

Land Breakdown

Lnd Code	Desc	Units	Adjustments	Eff Rate	Lnd Value
000000	VAC RES (MKT)	0000002.010 AC	1.00/1.00/1.00/1.00	$25,000.00	$50,250.00

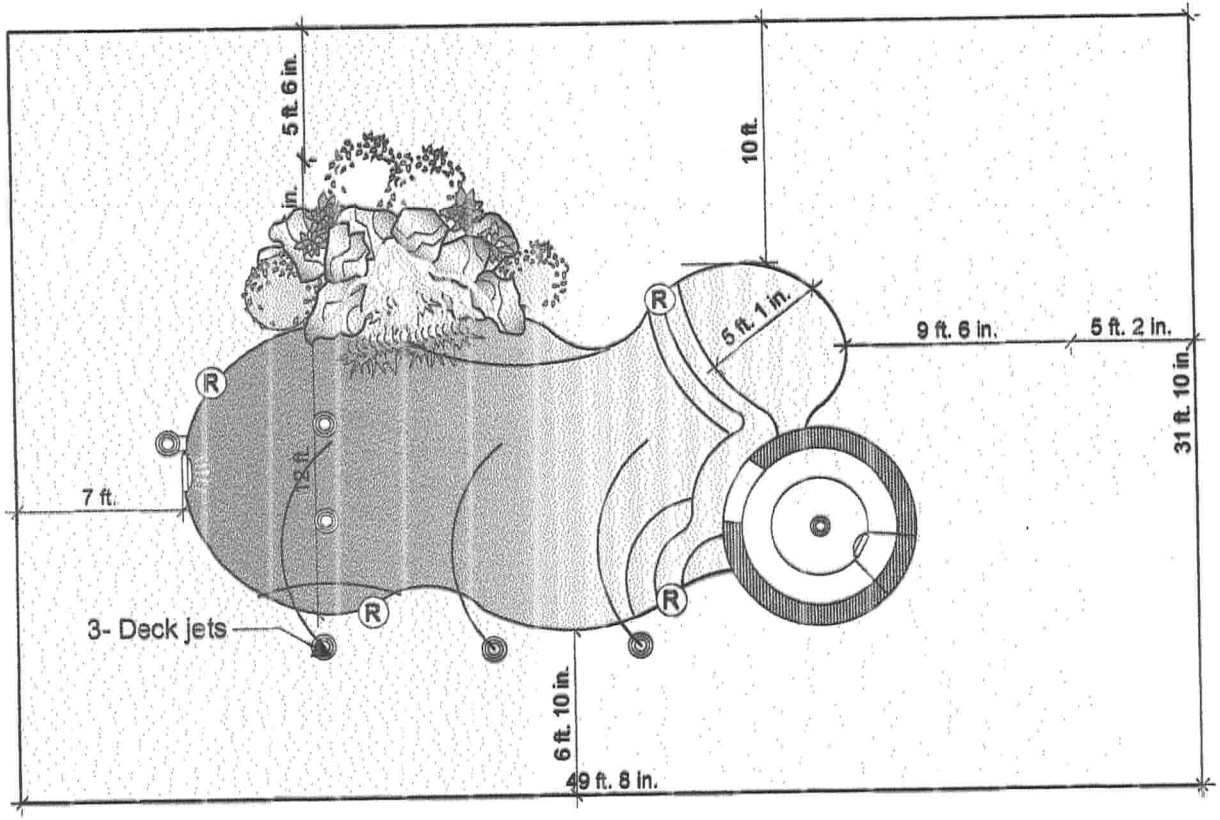
Columbia County Property Appraiser DB Last Updated: 7/22/2009

High Pointe S/D.

Peeler Pools

386-755-2848

I-75 to Lake City-
West on 90—
R Brown Rd---
L High Point
Farms
2nd place on R



Blake

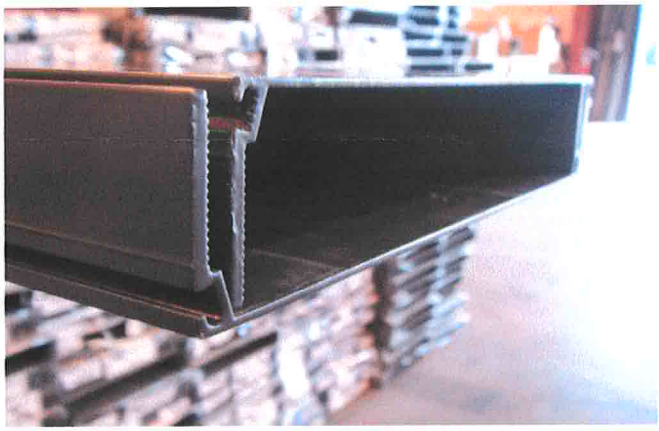
Peeler Pools 9878 S U.S.Hwy 441 Lake City FL 32025	Phone: 386-755-2848 Fax: 386-755-5577	Designed by: Raymond Peeler 9/4/2008	Designed for:	Dr. Trott 193 NW Whitten Ct 32024 Lake City FL 32055

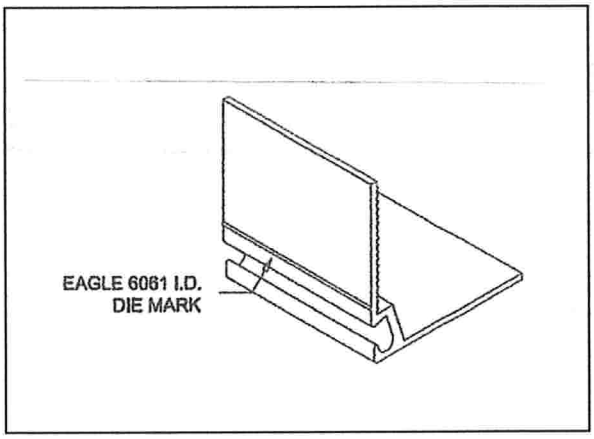
SCALE: 1/8" = 1'

EAGLE METAL DISTRIBUTORS, INC.

❖ THE FREEDOM OF CHOICE ❖

EAGLE 6061™ ALLOY CERTIFICATION





Company Name: TIMBERLAKE ALUMINUM CONST. INC Date: 27-07-09

Eagle Invoice # 32680
Job Name TROTT
Address: 193 NW WILLOW CT.
LAKE CITY FL 32025

This is to certify that the above company has purchased 6061 aluminum alloy material from our company for the construction of screen enclosures. The above pictures illustrate our 'raised' external identification mark (EAGLE 6061™) and its location next to the spline groove, to signify our 6061 alloy extrusions. **Certification not valid unless die mark is verified.** Eagle Metal Distributors certifies this based on specifications and validation provided by our extrusion suppliers, which states 6061 alloy was ordered and produced on all such designated profiles. Certification not valid without seal and signature from Eagle Metal Distributors, Inc. It is ultimately the purchaser's/contractors responsibility to ensure the proper alloy is used in conjunction with the engineering selected for construction.

This certification should be displayed on site for final inspection.

Inspector can look for identification mark on all extrusion components as specified above to validate the use of 6061 engineering.

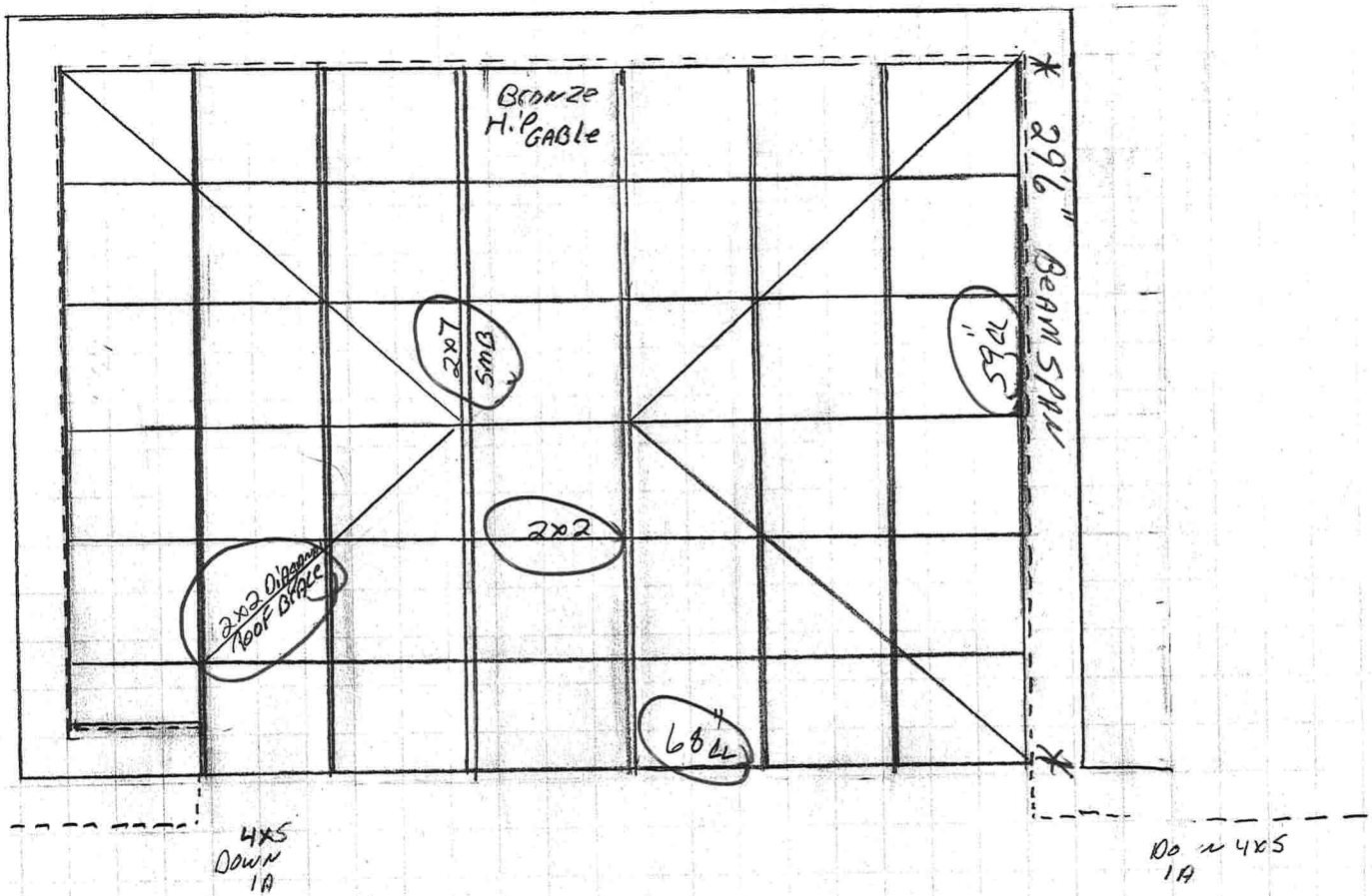
Signature:
Eagle Rep.

Seal:

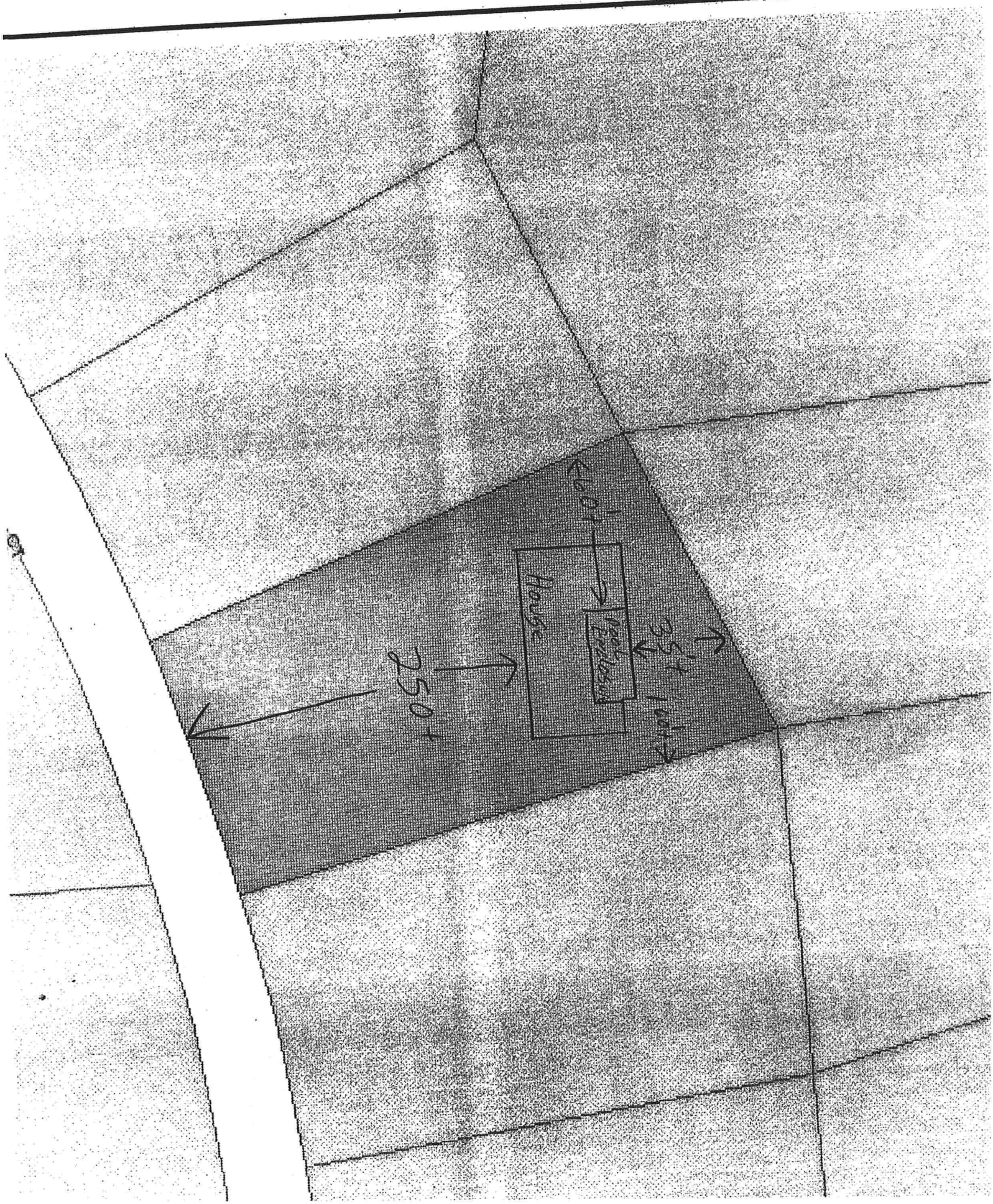
603-B W. LANDSTREET ROAD, ORLANDO, FL 32824 ◆ TEL: 407-367-0688 ◆ TOLL FREE: 866-609-5334 FAX: 407-367-0684

TIMBERLAKE ALUMINUM
CONSTRUCTION, INC.
25370 NW 8th Place
NEWBERRY, FL 32669

Troth/Peeler #243
193 nw whittow CT
Lake City FL



operty Appraiser - Map Printed on 10/2



Design Check List for Pool Enclosures

I. Design Statement: (EAGLE ALUMINUM 6061 T-6 FRAME MEMBERS)

These plans have been designed in accordance with the Aluminum Structures Design Manual by Lawrence E. Bennett and are in compliance with the 2004 Florida Building Code Edition with 2006 Supplements, Chapter 20, ASM35 and The 2005 Aluminum Design Manual Part I-A & II-A; Exposure 'B'___ or 'C'___ or 'D'___; Importance Factor 0.87 for 100 MPH and 0.77 for 110 MPH and higher; Negative I.P.C. 0.00; ___ MPH Wind Zone for 3 second wind gust; Basic Wind Pressure ____; Design pressures are ___ PSF for roofs & ___ PSF for walls. (see page 1 for wind loads and design pressures) A 300 PLF point load is also considered for screen roof members.

Notes: Wind velocity zones and exposure category is determined by local code. Design pressures and conversion multipliers are on page 1.

II. Host Structure Adequacy Statement:

I have inspected and verify that the host structure is in good repair and attachments made to the structure will be solid.

_____ Phone:_____
Contractor / Authorized Rep* Name (please print)

_____ Date:_____
Contractor / Authorized Rep* Signature

_____
Job Name & Address

Note: If the total of beam span & upright height exceeds 50' or upright height exceeds 16', site specific engineering is required.

III. Building Permit Application Package contains the following:

	Yes	No
A. Project name & address on plans	✓	
B. Site plan or survey with enclosure location	✓	
C. Contractor's / Designer's name, address, phone number, & signature on plans	✓	
D. Site exposure form completed	✓	
E. Enclosure layout drawing @ 1/8" or 1/10" scale with the following:	✓	
1. Plan view with host structure, enclosure length, projection from host structure, and all dimensions	✓	
2. Front and side elevation views with all dimensions & heights	✓	
Note: All mansard wall drawings shall include mansard panel at the top of the wall.		
3. Beam location (show in plan & elevation view) & size (Table 1.1 & 1.6)	✓	

Roof frame member allowable span conversions from 120 MPH wind zone, "B" Exposure to _____ MPH wind zone and / or __"C" or __"D" Exposure for load width of _____:

Note: Conversion factors do not apply to members subject to point load (P).

Look up span in appropriate 120 MPH span table and apply the following formula:

Span @ 120 MPH ┐ ┌ Required Converted Span / Height

_____ (b or d) x ____ (b or d) x ____ (b or d) = _____

Wind Zone Multiplier (see page 1) ┘ ┌ Exposure Multiplier (see page 1)

4. Upright location (show in plan & elevation view) & size (Table 1.3 E & 1.6 E)		✓
5. Chair rail & girt size, length, & spacing (Table 1.4 E)		✓
6. Eave rail size, length, spacing and stitching of (Table 1.2 E)		✓

*** Must have attended Engineer's Continuing Education Class within the past two years.**

Wall frame member allowable span conversions from 120 MPH wind zone, "B" Exposure to _____ MPH wind zone and / or __"C" or __"D" Exposure for load width of _____:
Look up span in appropriate 120 MPH span table and apply the following formula:

Span / Height @ 120 MPH or ___ MPH ┐ ┌ Required Converted Span / Height

_____ (b or d) x ____ (b or d) x ____ (b or d) = _____

Wind Zone Multiplier ** ┘ ┌ Exposure Multiplier (see page 1)

	Yes	No
7. Enclosure roof diagonal bracing in plan view	✓	
8. Knee braces length, location, & size (Table 1.7 E)		✓
9. Wall cables or K-bracing sizes shown in wall views		✓

IV. Highlight details from the Aluminum Structures Design Manual:

A. Beam & purlin tables with size, thickness, spacing, & spans / lengths (Tables 1.1 E & 1.2 E or 1.9.1 E & 1.9.2 E)	✓	
B. Upright & girt tables with size, thickness, spacing, & spans / lengths (Tables 1.3 E & 1.4 E)	✓	
C. Table 1.6 with beam & upright combination		✓
D. Connection details to be use such as:		
1. Beam to upright		✓
2. Beam to wall		✓
3. Beam to beam		✓
4. Chair rail, purlins, & knee braces	✓	
5. Extruded gutter connections	✓	
6. Angle to deck and / or sole plate		✓

	Yes	No
7. Anchors go through pavers into concrete		✓
8. Minimum footing and / or knee wall details		✓
9. Cable or K- brace details Section 1		✓

Wall area calculations for cables:
W = wall width, H = wall height, R = rise
W1 = width @ top of mansard, W2 = width @ top of wall

E. Select footing from examples in manual.

Example 1: Flat Roof

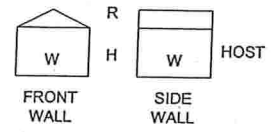
Front wall @ eave: ____ft. x ____ft. = ____ft.² @ 100% = (W, H, a) _____ ft.²

Largest side wall: ____ft. x ____ft. = ____ft.² @ 50% = (W, H, b) _____ ft.²

Total area / (233 ft.² / cable for 3/32") = _____cable pairs TOTAL = _____ ft.²
or
Total area / (445 ft.² / cable for 1/8") = _____cable pairs

Side wall cable calculation: ____ft.² @ 100% = (b) _____ ft.²

Side wall area / (233 ft.² / cable for 3/32") = _____cable(s)
or
Side wall area / (445 ft.² / cable for 1/8") = _____cable(s)



Example 2: Gable Roof

Front wall @ eave: ____ft. x ____ft. = ____ft.² @ 100% = (W, H, a) _____ ft.²

Front gable rise: ____ft. x 1/2(____ft.) = ____ft.² @ 100% = (R, W, b) _____ ft.²

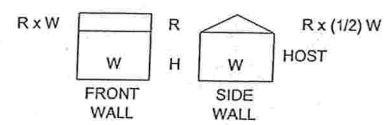
Largest side wall: ____ft. x ____ = ____ft.² @ 50% = (W, H, c) _____ ft.²

Largest side gable rise: ____ft. x ____ft. = ____ft.² @ 50% = (R, W, d) _____ ft.²

Total area / (233 ft.² / cable for 3/32") = _____cable pairs TOTAL = _____ ft.²
or
Total area / (445 ft.² / cable for 1/8") = _____cable pairs

Side wall cable calculation: ____ft.² + ____ft.² = ____ft.² @ 100% = (c, d) _____ ft.²

Side wall area / (233 ft.² / cable for 3/32") = _____cable(s)
or
Side wall area / (445 ft.² / cable for 1/8") = _____cable(s)



Example 3: Transverse Gable Roof

Front wall @ eave: ____ft. x ____ft. = ____ft.² @ 100% = (W, H, a) _____ ft.²

Front gable rise: ____ft. x ____ft. = ____ft.² @ 100% = (R, W, b) _____ ft.²

Largest side wall: ____ft. x ____ = ____ft.² @ 50% = (W, H, c) _____ ft.²

Largest side gable rise: ____ft. x 1/2 (____ft.) = ____ft.² @ 50% = (R, W, d) _____ ft.²

Total area / (233 ft.² / cable for 3/32") = _____cable pairs TOTAL = _____ ft.²
or
Total area / (445 ft.² / cable for 1/8") = _____cable pairs

Side wall cable calculation: ____ft.² + ____ft.² = ____ft.² @ 100% = (c, d) _____ ft.²

Side wall area / (233 ft.² / cable for 3/32") = _____cable(s)
or
Side wall area / (445 ft.² / cable for 1/8") = _____cable(s)

Example 4: Mansard Roof

Front wall @ eave: ____ft. x ____ft. = ____ft.² @ 100% = (W, H, a) _____ ft.²

Front mansard rise: ____ft. x 1/2(____ft. + ____ft.) = ____ft.² @ 100% = (R, W1, W2, b) _____ ft.²

Largest side wall: ____ft. x ____ = ____ft.² @ 50% = (W, H, c) _____ ft.²

Largest side mansard rise: ____ft. x 1/2(____ft. + ____ft.) = ____ft.² @ 50% = (R, W1, W2, d) _____ ft.²

TOTAL = _____ ft.²

Total area / (233 ft.² / cable for 3/32") = _____cable pairs
or
Total area / (445 ft.² / cable for 1/8") = _____cable pairs

Side wall cable calculation: ____ft.² + ____ft.² = ____ft.² @ 100% = (c, d) _____ ft.²

Side wall area / (233 ft.² / cable for 3/32") = _____cable(s)
or
Side wall area / (445 ft.² / cable for 1/8") = _____cable(s)

Example 5: Dome Roof

Front dome wall @ eave: ____ft. x ____ft. = ____ft. @ 100% = (W, H, a) _____ ft.²

Front dome rise: ____ft. x 1/2(____ft.) = ____ft.² @ 100% = (R, W, b) _____ ft.²

Largest side wall: ____ft. x ____ = ____ft.² @ 50% = (W, H, c) _____ ft.²

Largest side dome rise: ____ft. x ____ft. = ____ft.² @ 50% = (R, W, d) _____ ft.²

TOTAL = _____ ft.²

Total area / (233 ft.² / cable for 3/32") = _____cable pairs
or
Total area / (445 ft.² / cable for 1/8") = _____cable pairs

Side wall cable calculation: ____ft.² + ____ft.² = ____ft.² @ 100% = (c, d) _____ ft.²

Side wall area / (233 ft.² / cable for 3/32") = _____cable(s)
or
Side wall area / (445 ft.² / cable for 1/8") = _____cable(s)

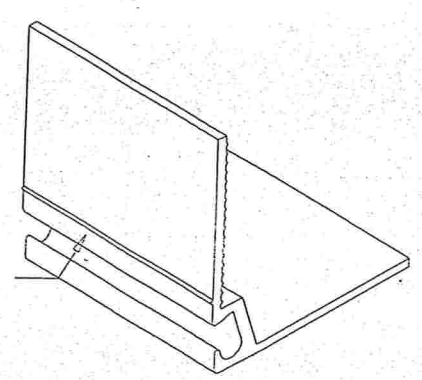
EAGLE 6061 ALLOY IDENTIFIER™ INSTRUCTIONS FOR PERMIT PURPOSES

To: Plans Examiners and Inspectors,

These identification instructions are provided to contractors for permit purposes. The pictures below illustrate our unique "raised" external identification mark (Eagle 6061™) and its location next to the spline groove, to signify our 6061 alloy extrusions. It is ultimately the purchaser's / contractor's responsibility to ensure that the proper alloy is used in conjunction with the engineering selected for construction. We are providing this identification mark to simplify identification when using our 6061 Alloy products.

A separate signed and sealed certification letter from Eagle Metals will be provided once the metal is purchased. This should be displayed on site for review at final inspection.

The inspector should look for the identification mark as specified below to validate the use of 6061 engineering.



11-2-2007

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ALUMINUM STRUCTURES DESIGN MANUAL
SCREEN ENCLOSURES
INSPECTION GUIDE / DESIGN CHECK LIST
2004 FBC W/ 2006 SUPPLEMENTS
2006 EDITION

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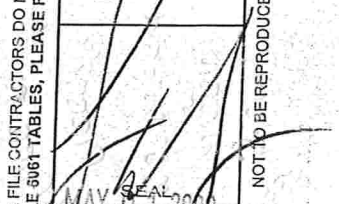
CIVIL & STRUCTURAL ENGINEERING
P.O. Box 214368, South Daytona, Fl 32121
Telephone #: (386) 767-4774 Fax #: (386) 767-6556
Email: lebpe@bellsouth.net

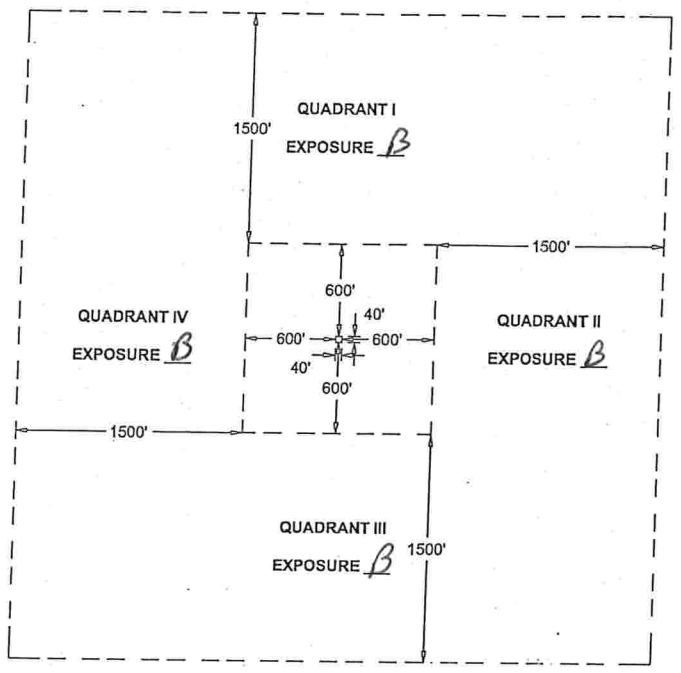


PAGE 1 OF 2

Inspection Guide For Pool Enclosures

	Yes	No
1. Check the building permit for the following:		
a. Permit card & address	___	___
b. Approved drawings and addendums as required	___	___
c. Plot plan or survey	___	___
d. Notice of commencement	___	___
2. Check the approved site specific drawings or shop drawings against the "AS BUILT" structure for:	Yes	No
a. Structures length, projection, plan & height as shown on the plans	___	___
b. Beam size, span, spacing & stitching screws	___	___
c. Purlin size, span & spacing	___	___
d. Upright size, height, spacing & stitching screws	___	___
e. Chair rail size, length & spacing	___	___
f. Eve rail size, length, spacing & stitching of 1" x 2" to 2" x 2"	___	___
g. Enclosure roof diagonal bracing is installed snug	___	___
h. Wall cables or 'K' bracing are installed snug	___	___
i. Knee braces are properly installed	___	___
3. Check load bearing uprights for the following:	Yes	No
a. Angle bracket size & thickness	___	___
b. Correct number, size & spacing of fasteners to upright	___	___
c. Correct number, size & spacing of fasteners of angle to deck and sole plate	___	___
d. Upright is anchored to deck through brick pavers then anchors shall go through pavers into concrete	___	___
4. Check the load bearing beam to upright for:		
a. Upright to beam connection and / or splices have correct number & spacing of screws	Yes ___	No ___
b. Overlap beam to upright or gusset plate	___	___
c. If angle brackets are used in framing check for correct thickness and size & number of fasteners	___	___
5. Check load bearing beam to host structure and / or gutter for:	Yes	No
a. Receiver bracket, angle or receiving channel size & thickness	___	___
b. Size, number & spacing of anchors of beam to receiver	___	___
c. Size, number & spacing of anchors of receiver to host structure of gutter	___	___
d. Correct anchoring of gutters to host structure	___	___
6. Check the wall cables:	Yes	No
a. Location & number	___	___
b. Top bracket size and fasteners	___	___
c. Eye bolts are welded	___	___
d. Bottom strap to concrete connection	___	___
7. Check wall 'K' bracing (if required):	Yes	No
a. Location & size	___	___
b. Angle, gusset or clip size & number	___	___
c. Number & size of fasteners	___	___
8. Check electrical ground:	Yes	No
a. Properly completed	___	___
b. Angle, gusset or clip size & number	___	___
c. Number & size of fasteners	___	___
9. Check the doors on pool enclosures:	Yes	No
a. Door handle @ 54" from the deck	___	___

SITE EXPOSURE EVALUATION FORM



NOTE: ZONES ARE MEASURED FROM STRUCTURE OUTWARD

SITE
SCALE: 1" = 1200'

USING THE FOLLOWING CRITERIA, EVALUATE EACH QUADRANT AND MARK IT AS 'B', 'C', OR 'D' EXPOSURE. 'C' OR 'D' EXPOSURE IN ANY QUADRANT MAKE THE SITE THAT EXPOSURE.

EXPOSURE C:
1. OPEN TERRAIN FOR MORE THAN 1,500 FEET IN ANY QUADRANT.
2. ANY 'C' EXPOSURE FOR GREATER THAN 600 FEET IN ANY QUADRANT.
3. NO SHORT TERM CHANGES IN 'B', 2 YEARS BEFORE SITE EVALUATION AND BUILD OUT WITHIN 3 YEARS, SITE WILL BE 'B'.
4. FLAT, OPEN COUNTRY, GRASSLANDS, PONDS AND OCEAN OR SHORELINES IN ANY QUADRANT FOR GREATER THAN 1,500 FEET.

EXPOSURE D: FLAT, UNOBSTRUCTED AREAS THAT ARE 1,500 FT INLAND FROM THE SHORE LINE AND ARE EXPOSED TO WIND FLOWING OVER WATER FOR A DISTANCE OF AT LEAST 1 MILE.

SITE IS EXPOSURE: B EVALUATED BY: Craig Timberlake DATE: 7-27-09

SIGNATURE: Craig Timberlake LICENSE #: SCC056710

EAGLE 6061 ALLOY IDENTIFIER™ INSTRUCTIONS FOR PERMIT PURPOSES

To: Plans Examiners and Inspectors,

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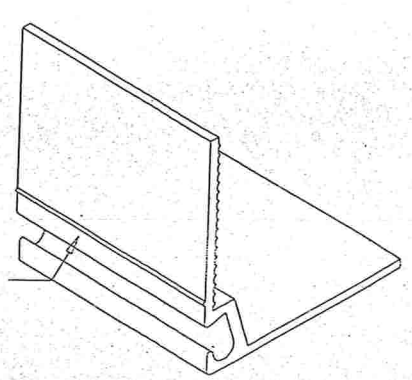

10-31-2007

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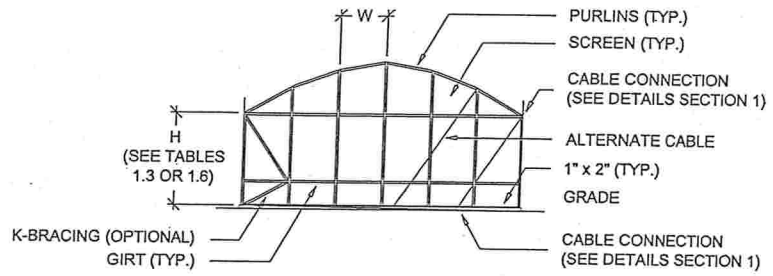
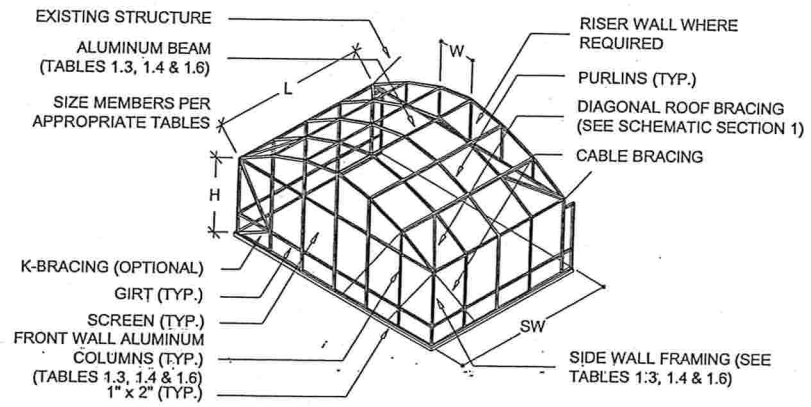
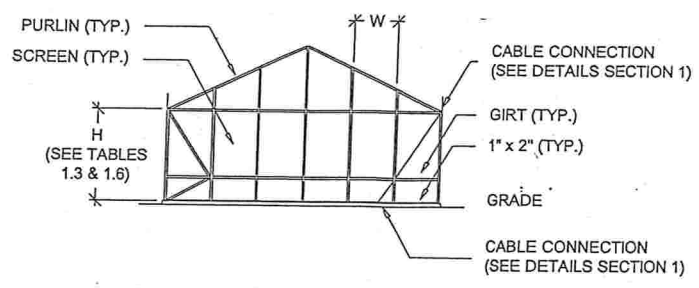


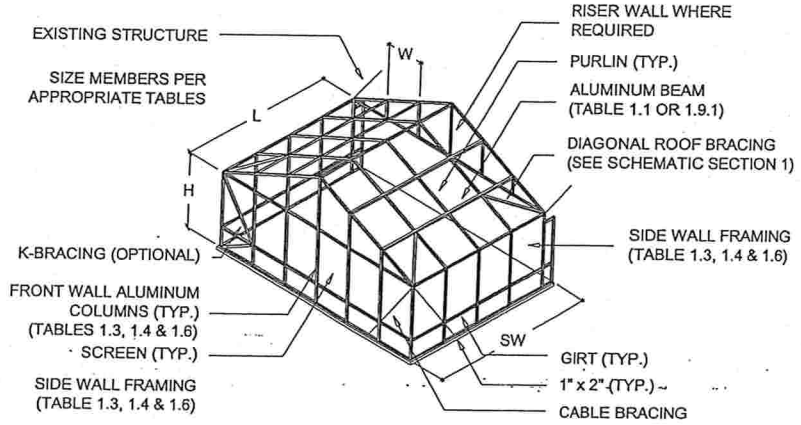
TYPICAL DOME ROOF - FRONT WALL ELEVATION
SCALE: N.T.S.



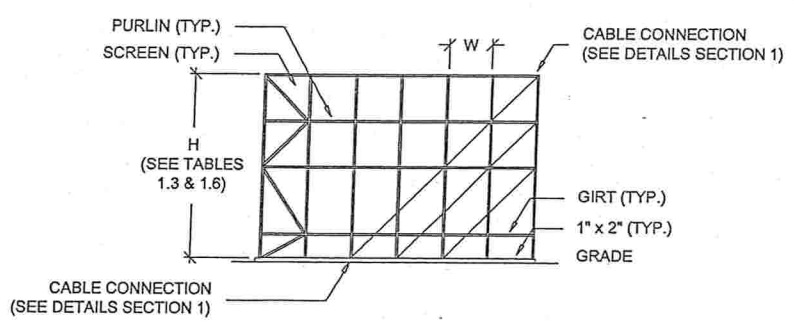
TYPICAL DOME ROOF - ISOMETRIC
SCALE: N.T.S.
CONNECTION DETAILS AND NOTES ARE FOUND IN THE SUBSEQUENT PAGES.



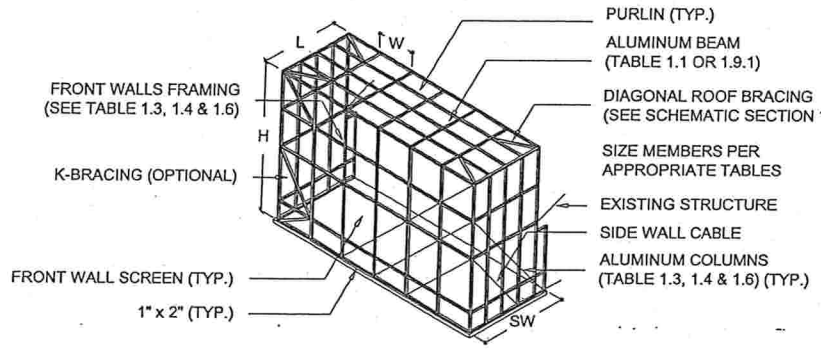
TYPICAL TRANSVERSE GABLE ROOF - FRONT WALL ELEVATION
SCALE: N.T.S.



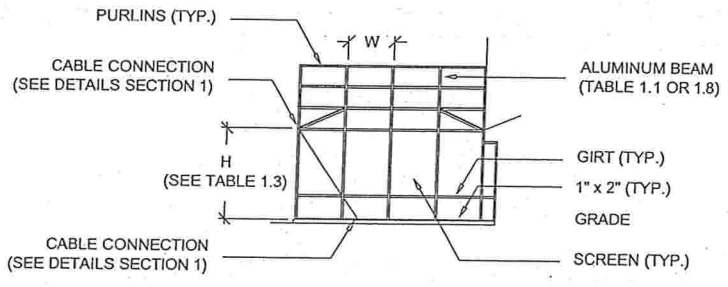
TYPICAL TRANSVERSE STACKED GABLE ROOF - ISOMETRIC
SCALE: N.T.S.
CONNECTION DETAILS AND NOTES ARE FOUND IN THE SUBSEQUENT PAGES



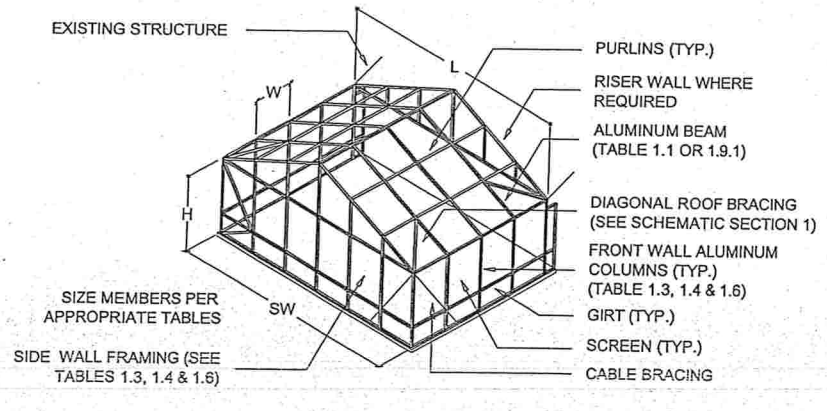
TYPICAL TWO STORY POOL ENCLOSURE - FRONT WALL ELEVATION (ALL ROOF TYPES)
SCALE: N.T.S.



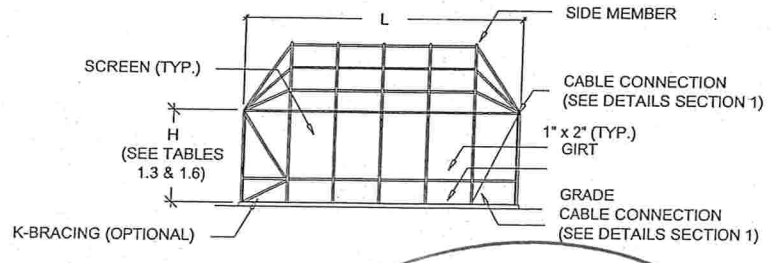
TYPICAL TWO STORY POOL ENCLOSURE - ISOMETRIC (ALL ROOF TYPES)
SCALE: N.T.S.
CONNECTION DETAILS AND NOTES ARE FOUND IN THE SUBSEQUENT PAGES



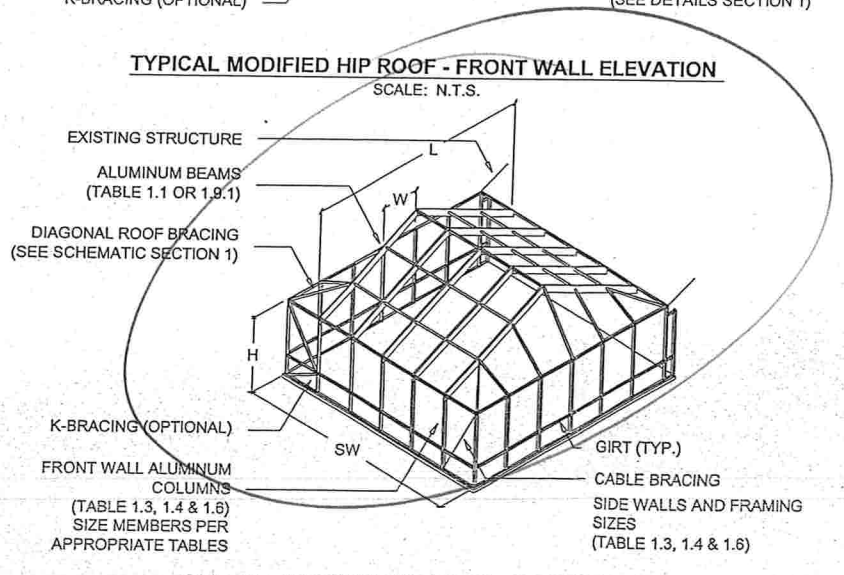
TYPICAL GABLE ROOF - FRONT WALL ELEVATION
SCALE: N.T.S.



TYPICAL GABLE ROOF - ISOMETRIC
SCALE: N.T.S.
CONNECTION DETAILS AND NOTES ARE FOUND IN THE SUBSEQUENT PAGES



TYPICAL MODIFIED HIP ROOF - FRONT WALL ELEVATION
SCALE: N.T.S.



TYPICAL MODIFIED HIP ROOF - ISOMETRIC
SCALE: N.T.S.

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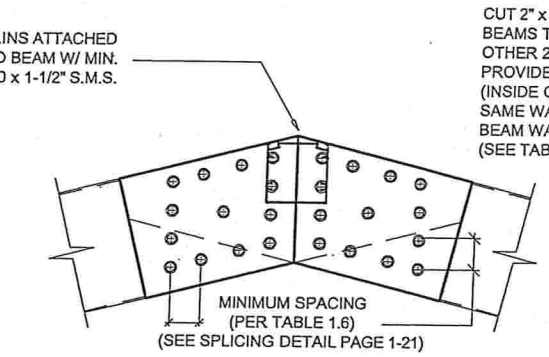
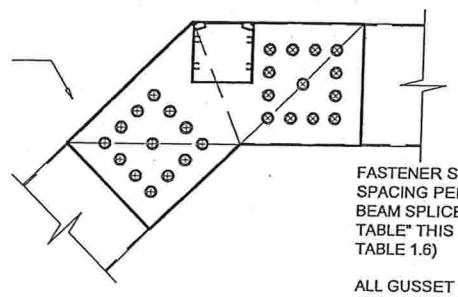


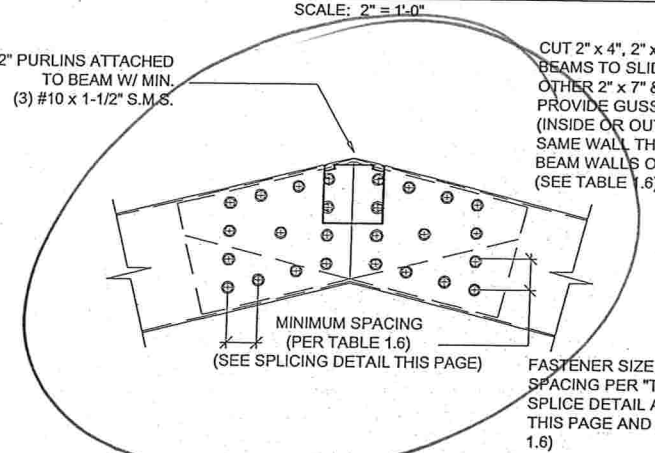
TYPICAL SIDE PLATE CONNECTION DETAIL

SCALE: 2" = 1'-0"



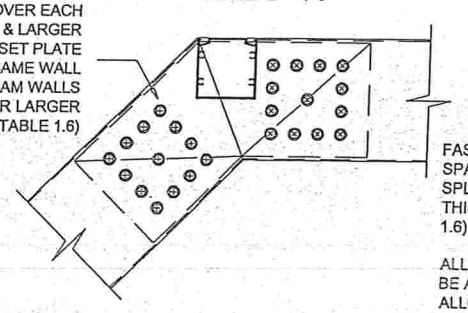
TYPICAL SIDE PLATE CONNECTION DETAIL - MANSARD ROOF

SCALE: 2" = 1'-0"



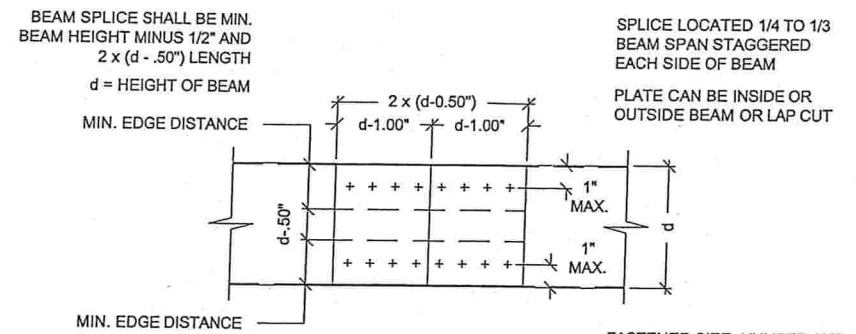
ALTERNATE SIDE PLATE CONNECTION DETAIL GUSSET PLATE MOUNTED INTERNALLY

SCALE: 2" = 1'-0"



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

SCALE: 2" = 1'-0"

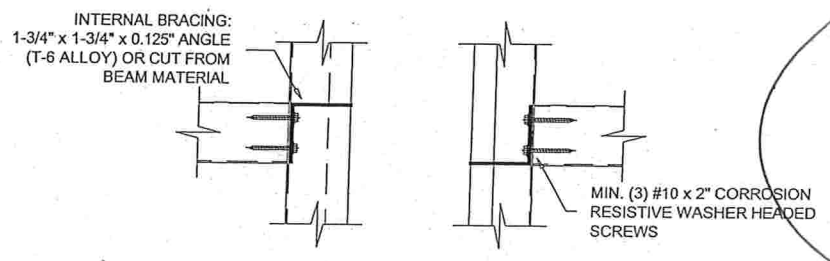


Screw Size	ds (in.)	Minimum Distance and Spacing of Screws* Edge to Center 2ds (in.)	Minimum Distance and Spacing of Screws* Center to Center 2-1/2ds (in.)	Gusset Plate Beam Size	Gusset Plate Thickness (in.)
#8	0.16	3/8	7/16	2" x 7" x 0.055" x 0.120"**	1/16 = 0.063
#10	0.19	3/8	1/2	2" x 8" x 0.072" x 0.224"	1/8 = 0.125
#12	0.21	7/16	9/16	2" x 9" x 0.072" x 0.224"	1/8 = 0.125
#14 or 1/4"	0.25	1/2	5/8	2" x 9" x 0.082" x 0.306"	1/8 = 0.125
5/16"	0.31	5/8	3/4	2" x 10" x 0.092" x 0.369"	1/4 = 0.25

* refers to each side of splice
** use for 2" x 4" and 2" x 6" also
Note:
1. All gusset plates shall be minimum 5052 H-32 Alloy or have a minimum yield of 30 ksi.

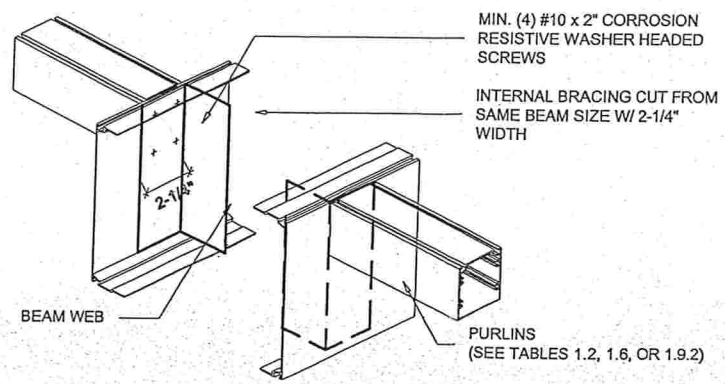
TYPICAL BEAM SPLICE DETAIL

SCALE: 2" = 1'-0"



PLAN VIEW

SCALE: 2" = 1'-0"

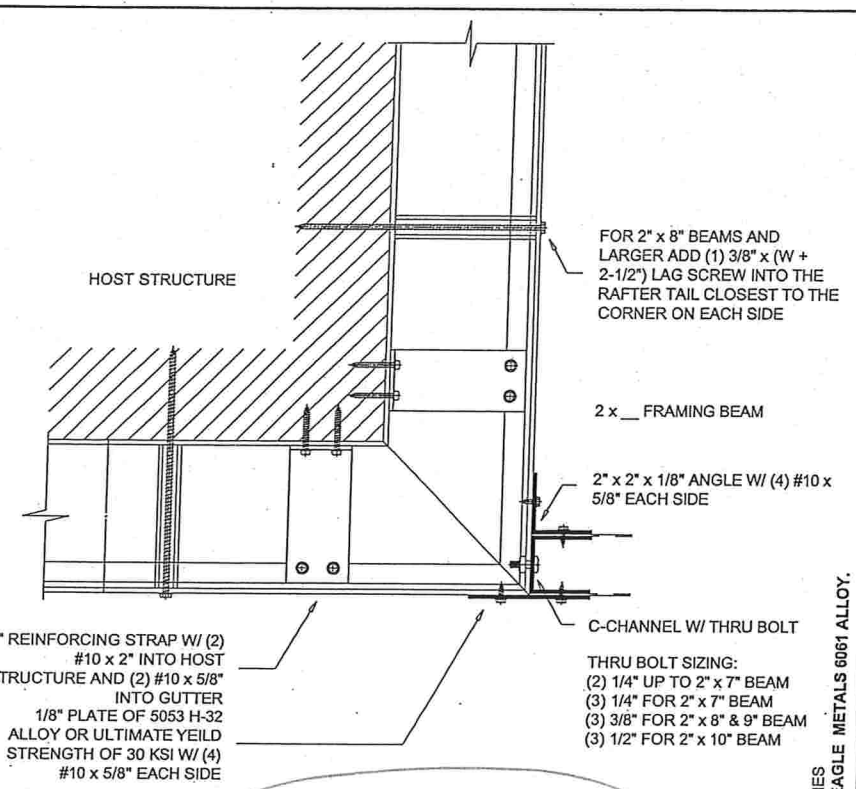


ISOMETRIC VIEW

SCALE: N.T.S.

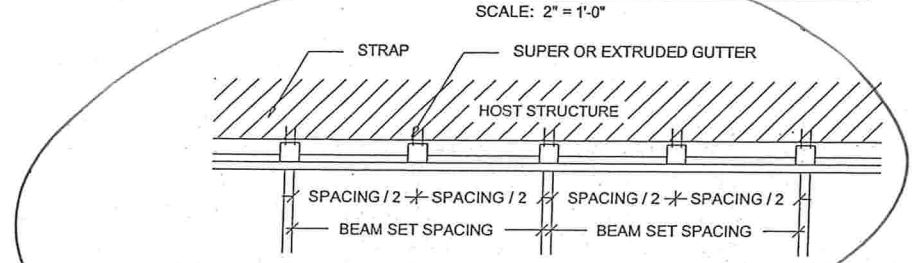
LATERAL BEAM BRACING DETAILS (FOR SPANS GREATER THAN 40'-0")

NOTES:
1. REQUIRED FOR SPANS GREATER THAN 40' AND ALL DOME OR TRANSVERSE GABLE ENCLOSURES.
2. ALL 2x4 AND LARGER PURLINS SHALL HAVE AN INTERNAL OR EXTERNAL ANGLE CLIP OR SCREW BOSS TO FASTEN THE BOTTOM OF THE PURLIN TO THE BEAM OR SCREW BOSS.



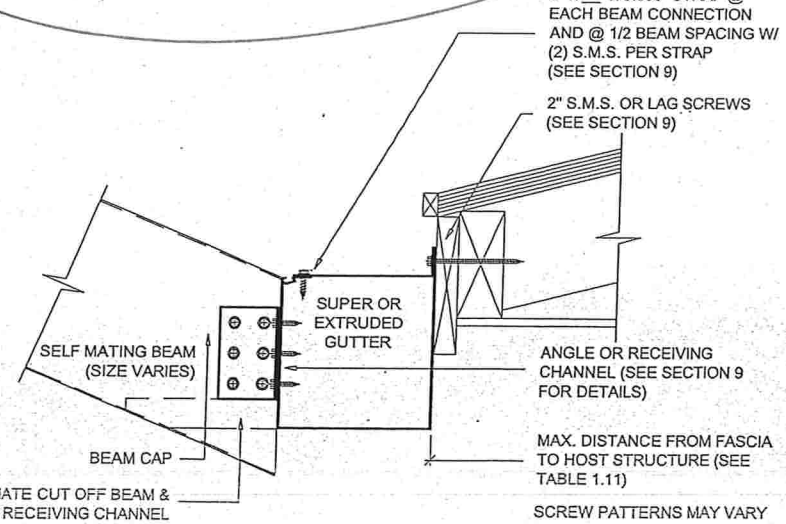
OUTER MITER DETAIL FOR SUPER GUTTER TO CARRIER BEAM

SCALE: 2" = 1'-0"



STRAP LOCATION FOR SUPER OR EXTRUDED GUTTER REINFORCEMENT

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



SELF MATING BEAM CONNECTION TO SUPER OR EXTRUDED GUTTER

SCALE: 2" = 1'-0"

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ALUMINUM STRUCTURES DESIGN MANUAL
SCREEN ENCLOSURES
SECTION 1 DETAILS
2004 FBC W/ 2006 SUPPLEMENTS
2006 EDITION

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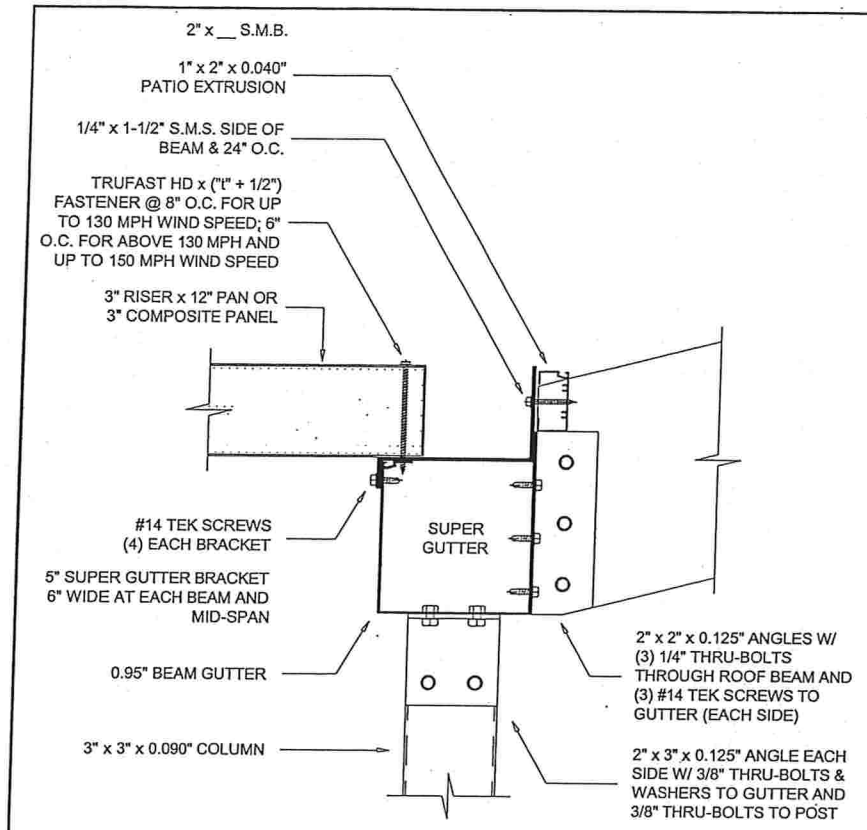
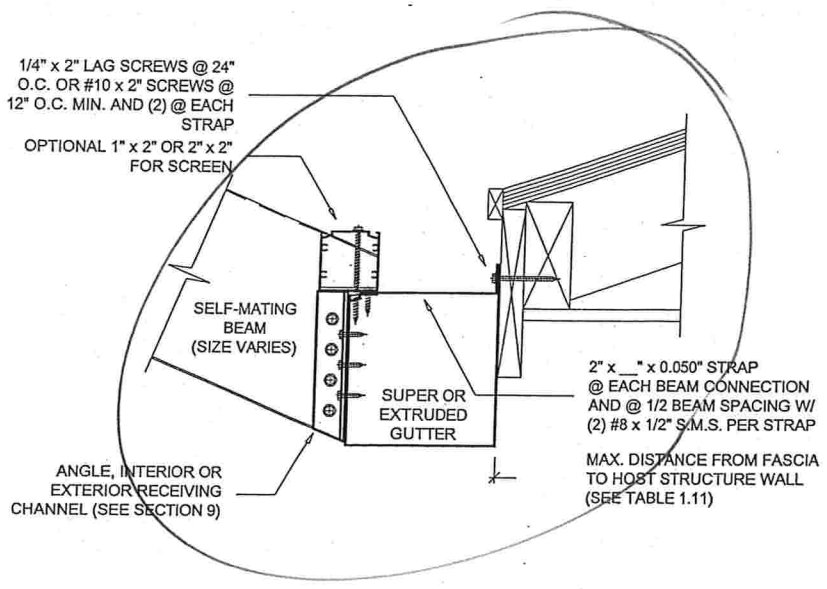
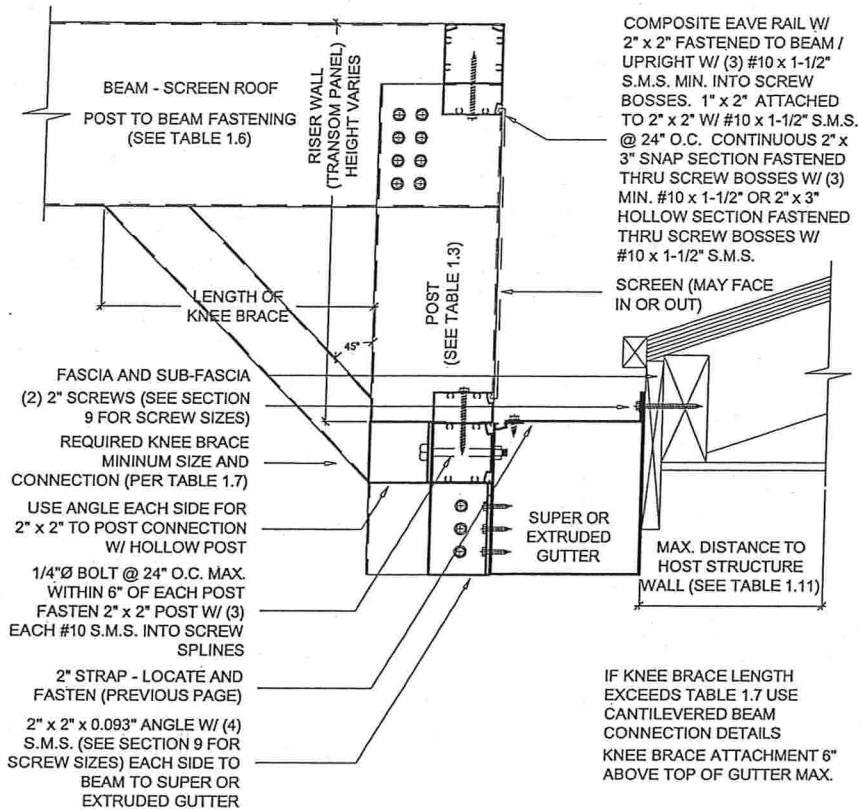
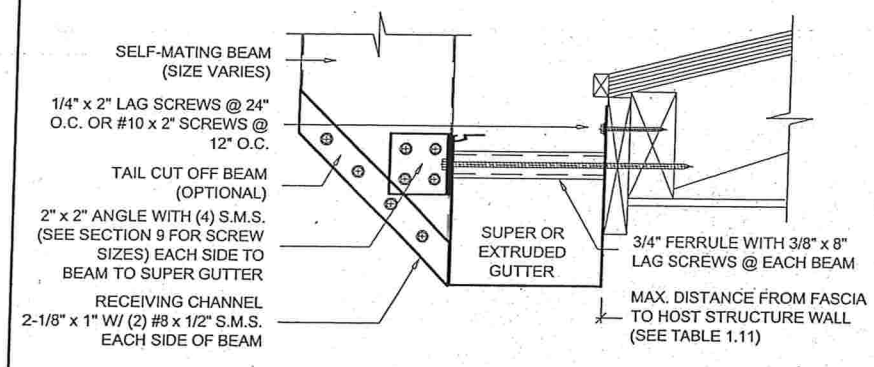






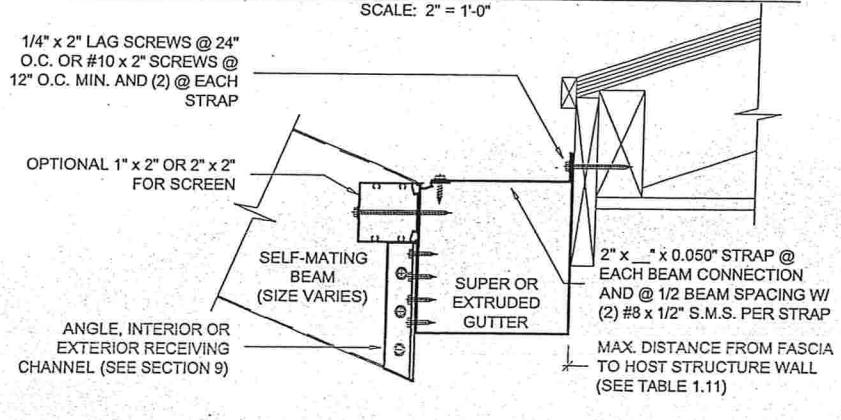
ALTERNATE SELF-MATING BEAM CONNECTION TO SUPER GUTTER

SCALE: 2" = 1'-0"



SELF MATING BEAM AND SUPER OR EXTRUDED GUTTER CONNECTION

SCALE: 2" = 1'-0"

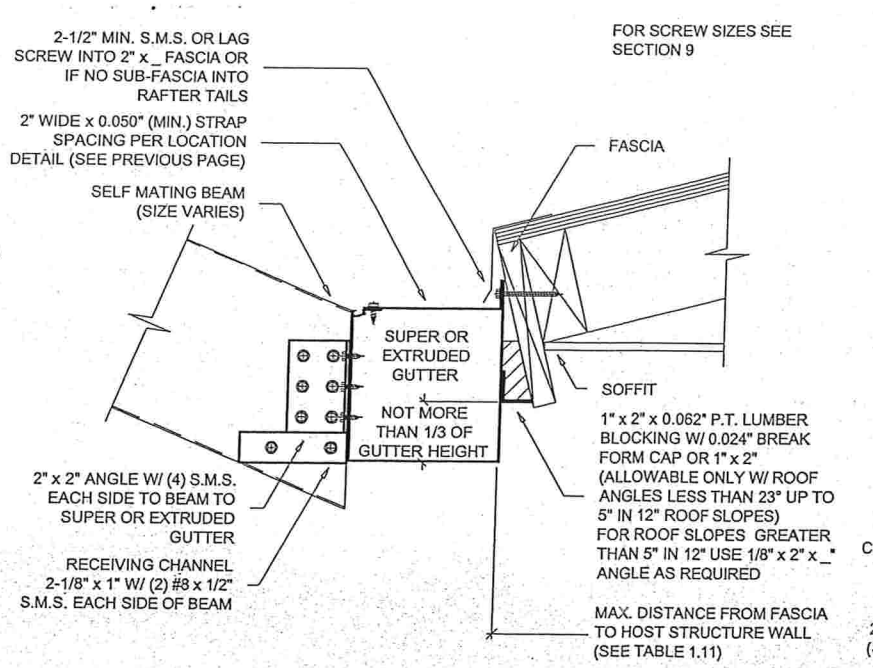


SELF MATING BEAM CONNECTION TO SUPER OR EXTRUDED GUTTER

SCALE: 2" = 1'-0"

ALTERNATE SELF MATING BEAM CONNECTION TO SUPER OR EXTRUDED GUTTER

SCALE: 2" = 1'-0"

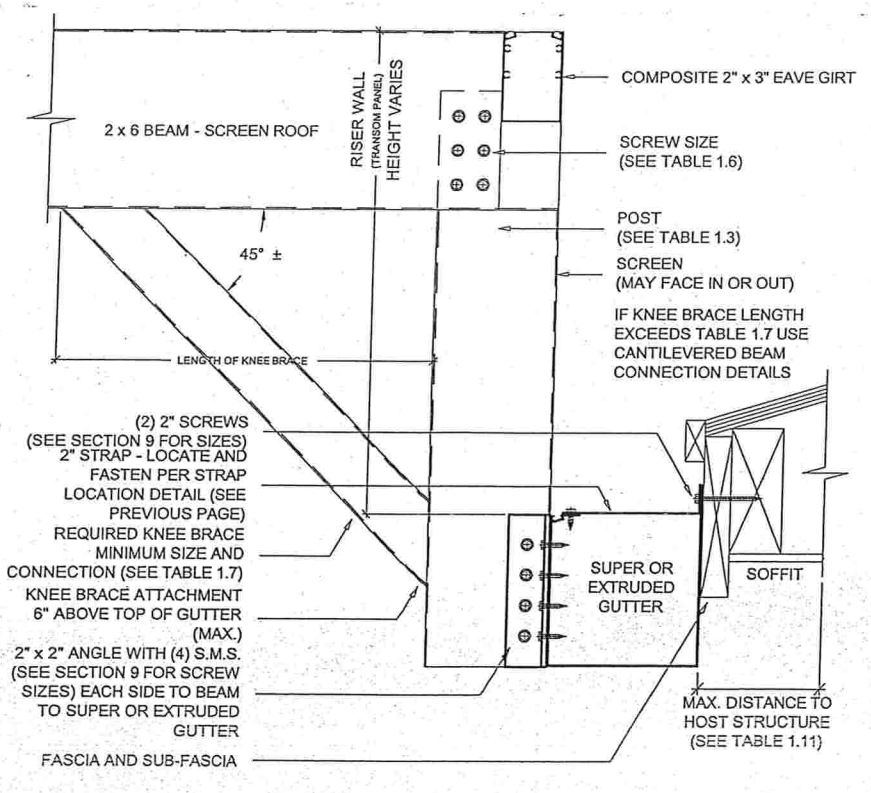


TYPICAL SELF MATING BEAM AND SUPER OR EXTRUDED GUTTER CONNECTION

SCALE: 2" = 1'-0"

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

SCALE: 2" = 1'-0"



SUPER OR EXTRUDED GUTTER RISER (OR TRANSOM) WALL AT FASCIA - DETAIL 2

SCALE: 2" = 1'-0"

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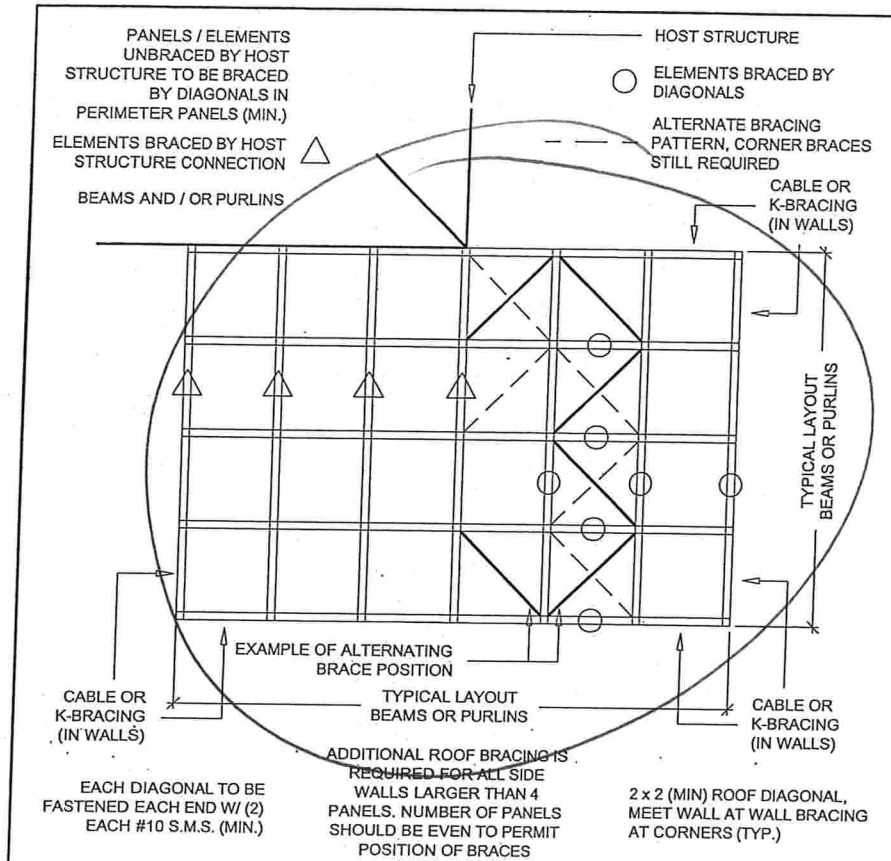
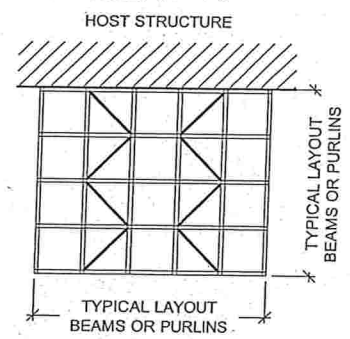


(POOL ENCLOSURE SCREEN ROOF MAY BE FLAT, GABLE, MANSARD, DOME, OR HIP)

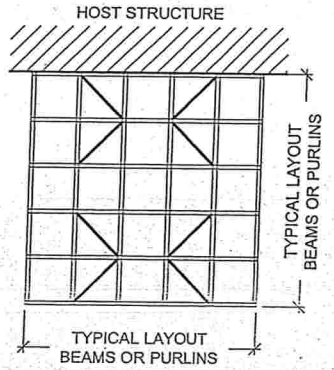
POOL ENCLOSURE DIAGONAL BRACING - SCHEMATIC PLAN VIEW

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



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

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



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

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

CABLE BRACING

General Notes and Specifications:

1) The following shall apply to the installation of cables as additional bracing to DIAGONAL bracing for pool enclosures:

a) FRONT WALL CABLES - 7 x 19 STAINLESS STEEL

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

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

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

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

b) SIDE WALL CABLES - 7 x 19 STAINLESS STEEL

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

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

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

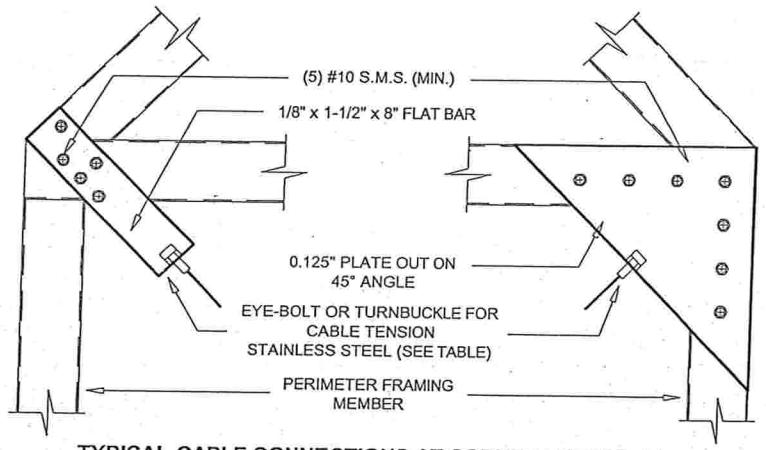
NOTES:

1. Where wall height is such that a girt is required between the top or eave rail and the chair rail, (i.e. a mid-rise girt), then the front wall shall have two cable pairs and they shall be attached to the top rail and the mid-rise rail. If more than one additional girt is required between the top or eave rail and the chair rail, then there shall be an additional front wall cable pair at that girt also.

2. Side walls do not require cables until the side wall area is greater than 233 Sq. Ft.. The side wall cable may be attached at the mid-rise girt or the top rail.

3. Standard rounding off rules apply. ie: if the number of cables calculated is less than 2.5 pairs use two cables; if the number of cables calculated is 2.5 pairs or greater use 3 pairs of cables.

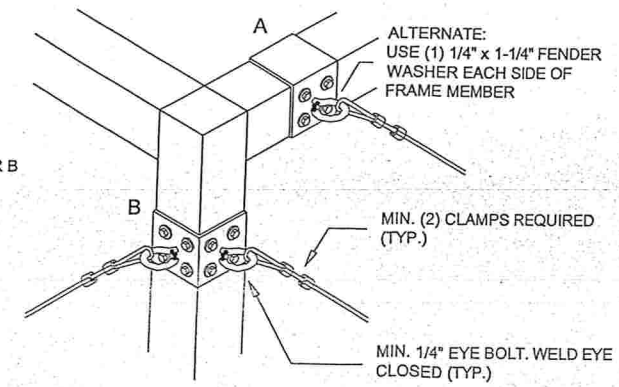
4. Additional roof bracing is required for all side walls larger than 4 panels. Number of panels shall be even and position shall be alternating.



TYPICAL CABLE CONNECTIONS AT CORNER - DETAIL 1

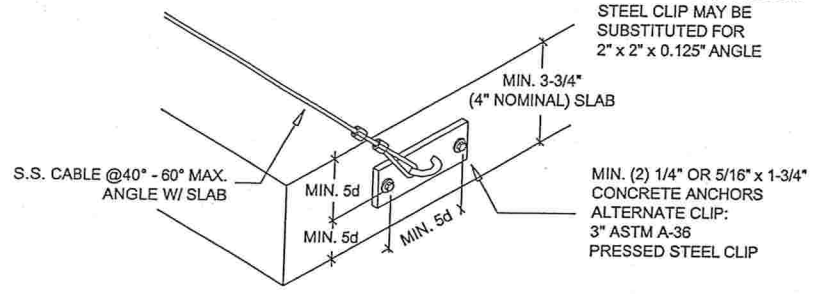
SCALE: 2" = 1'-0"

1" x 2" x 0.125" CLIP AND (4) #10 x 3/4" S.M.S. EACH SIDE FOR CABLES EITHER A OR B



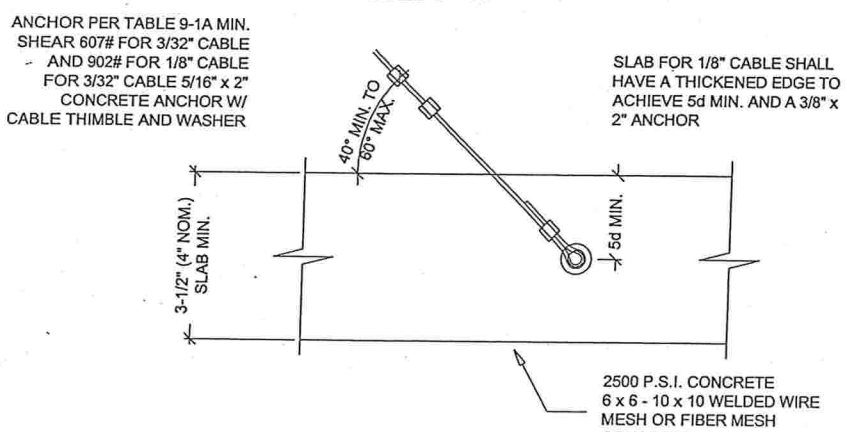
ALTERNATE TOP CORNER OF CABLE CONNECTION - DETAIL 1A

SCALE: 2" = 1'-0"



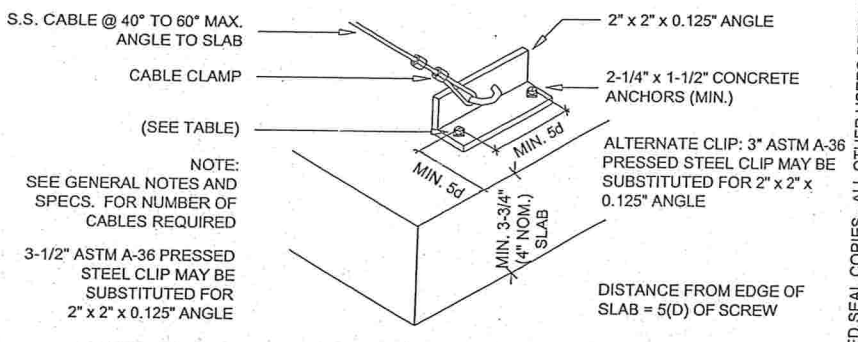
TYPICAL CABLE CONNECTION AT SLAB DETAIL - DETAIL 2

SCALE: 2" = 1'-0"



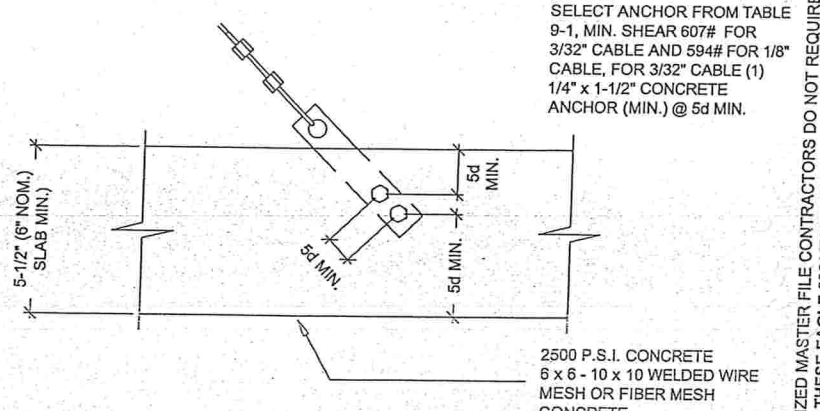
ALTERNATE CABLE CONNECTIONS AT FOUNDATION - DETAIL 2A

SCALE: 2" = 1'-0"



ALTERNATE CABLE CONNECTION AT SLAB DETAIL - DETAIL 2B

SCALE: 2" = 1'-0"



ALTERNATE CABLE CONNECTIONS AT FOUNDATION - DETAIL 2C

SCALE: 2" = 1'-0"

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SHEET 10 OF 18

Table 1.1 120 E Allowable Spans for Eagle Metal Distributors, Inc. for Primary Screen Roof Frame Members

Aluminum Alloy 6061 T-6

For 110 & 120 MPH Wind Zones, 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 0.043"	5'-3"	Pb	5'-3"	Pb	5'-3"	Pb	5'-3"	Pb	5'-3"	Pb	5'-3"	Pb	5'-3"	Pb	5'-3"	Pb
3" x 2" x 0.045"	6'-8"	Pb	6'-8"	Pb	6'-8"	Pb	6'-8"	Pb	6'-8"	Pb	6'-8"	Pb	6'-8"	Pb	6'-8"	Pb
3" x 2" x 0.070"	8'-4"	Pd	8'-4"	Pd	8'-4"	Pd	8'-4"	Pd	8'-4"	Pd	8'-4"	Pd	8'-4"	Pd	8'-4"	Pd
2" x 3" x 0.045"	9'-8"	Pb	9'-8"	Pb	9'-8"	Pb	9'-8"	Pb	9'-8"	Pb	9'-8"	Pb	9'-8"	Pb	9'-8"	Pb
2" x 4" x 0.050"	14'-8"	Pd	14'-8"	Pd	14'-8"	Pd	14'-8"	Pd	14'-8"	Pd	14'-8"	Pd	14'-8"	Pd	14'-3"	Ud
2" x 5" x 0.060"	21'-1"	Pd	21'-1"	Pd	21'-1"	Pd	20'-9"	Ud	19'-9"	Ud	18'-10"	Ud	18'-2"	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 0.045 x 0.088"	17'-1"	Pd	17'-1"	Pd	17'-1"	Pd	17'-11"	Pd	17'-11"	Pd	17'-8"	Ud	16'-11"	Ud	16'-3"	Ud
2" x 5" x 0.050" x 0.116"	24'-3"	Pd	24'-3"	Pd	24'-2"	Ud	22'-9"	Ud	21'-8"	Ud	20'-8"	Ud	19'-11"	Ud		
2" x 6" x 0.050" x 0.120"	30'-8"	Pd	30'-5"	Ud	28'-3"	Ud	26'-7"	Ud	25'-3"	Ud	24'-2"	Ud	23'-3"	Ud		
2" x 7" x 0.055" x 0.120"	37'-1"	Pd	34'-7"	Ud	32'-1"	Ud	30'-2"	Ud	28'-8"	Ud	27'-5"	Ud	26'-5"	Ud		
2" x 8" x 0.070" x 0.224"	45'-11"	Ud	41'-9"	Ud	38'-10"	Ud	36'-4"	Ud	34'-8"	Ud	33'-2"	Ud	31'-11"	Ud		
2" x 9" x 0.070" x 0.204"	49'-7"	Ud	45'-0"	Ud	41'-10"	Ud	39'-4"	Ud	37'-4"	Ud	35'-9"	Ud	34'-4"	Ud		
2" x 9" x 0.082" x 0.326"	53'-3"	Ud	48'-5"	Ud	44'-11"	Ud	42'-3"	Ud	40'-2"	Ud	38'-5"	Ud	36'-11"	Ud		
2" x 10" x 0.090" x 0.374"	62'-1"	Ud	56'-5"	Ud	52'-4"	Ud	49'-3"	Ud	46'-10"	Ud	44'-9"	Ud	43'-1"	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.

Table 1.2 120 E Allowable Spans for Eagle Metal Distributors, Inc. for Secondary Screen Roof Frame Members

Aluminum Alloy 6061 T-6

'For 110 & 120 MPH Wind Zones, Exposure "B" and Latitudes Below 30°-30'-00" North (Jacksonville, FL)
Uniform Load = 4 #/SF, a Point Load of 300 #/SF over (1) linear ft. is also considered

A. Sections Fastened To Beams With Clips

Hollow Sections	Tributary Load Width 'W' = Purlin Spacing															
	3'-6"		4'-0"		4'-6"		5'-0"		5'-6"		6'-0"		6'-8"			
	Allowable Span 'L' / Point Load (P) or Uniform Load (U), bending (b), deflection (d)															
2" x 2" x 0.043"	5'-5"	Pb	5'-5"	Pb	5'-5"	Pb	5'-5"	Pb	5'-5"	Pb	5'-5"	Pb	5'-5"	Pb	5'-5"	Pb
3" x 2" x 0.045"	6'-10"	Pd	6'-10"	Pd	6'-10"	Pd	6'-10"	Pd	6'-10"	Pd	6'-10"	Pd	6'-10"	Pd	6'-10"	Pd
3" x 2" x 0.070"	7'-9"	Pd	7'-9"	Pd	7'-9"	Pd	7'-9"	Pd	7'-9"	Pd	7'-9"	Pd	7'-9"	Pd	7'-9"	Pd
2" x 3" x 0.045"	8'-7"	Pd	8'-7"	Pd	8'-7"	Pd	8'-7"	Pd	8'-7"	Pd	8'-7"	Pd	8'-7"	Pd	8'-7"	Pd
2" x 4" x 0.050"	11'-3"	Pd	11'-3"	Pd	11'-3"	Pd	11'-3"	Pd	11'-3"	Pd	11'-3"	Pd	11'-3"	Pd	11'-3"	Pd
2" x 5" x 0.060"	14'-5"	Pd	14'-5"	Pd	14'-5"	Pd	14'-5"	Pd	14'-5"	Pd	14'-5"	Pd	14'-5"	Pd	14'-5"	Pd

B. Sections Fastened Through Beam Webs Into Screw Bosses

Hollow Sections	Tributary Load Width 'W' = Purlin Spacing															
	3'-6"		4'-0"		4'-6"		5'-0"		5'-6"		6'-0"		6'-8"			
	Allowable Span 'L' / Point Load (P) or Uniform Load (U), bending (b), deflection (d)															
2" x 2" x 0.043"	8'-2"	Pb	8'-2"	Pb	8'-2"	Pb	8'-2"	Pb	8'-2"	Pb	8'-2"	Pb	8'-2"	Pb	8'-2"	Pb
3" x 2" x 0.045"	10'-5"	Pb	10'-5"	Pb	10'-5"	Pb	10'-5"	Pb	10'-1"	Ud	9'-10"	Ud	9'-6"	Ud		
3" x 2" x 0.070"	12'-4"	Pd	12'-4"	Pd	12'-4"	Pd	11'-11"	Ud	11'-6"	Ud	11'-2"	Ud	10'-10"	Ud		
2" x 3" x 0.045"	13'-8"	Pd	13'-8"	Pd	13'-8"	Pd	13'-2"	Ud	12'-10"	Ud	12'-5"	Ud	11'-11"	Ud		
2" x 4" x 0.050"	17'-11"	Pd	17'-11"	Pd	17'-11"	Pd	17'-4"	Ud	16'-9"	Ud	16'-3"	Ud	15'-9"	Ud		
2" x 5" x 0.060"	22'-10"	Pd	22'-10"	Pd	22'-10"	Pd	22'-1"	Ud	21'-4"	Ud	20'-9"	Ud	20'-0"	Ud		

Note:
1. Thicknesses shown are "nominal" industry standard tolerances. No wall thickness shall be less than 0.040".
2. Span is measured from center of beam and upright connection to fascia or wall connection.
3. Tables are based on a maximum wall height of 16' including a 4' max. mansard or gable. Other conditions may offer better spans w/ enclosure site specific engineering.
4. Spans may be interpolated.
5. 2" x 4" & 2" x 5" Hollow Girts shall be connected w/ an internal or external 1-1/2" x 1-1/2" x 0.044" angle.
6. To convert spans to "C" and "D" exposure categories see exposure multipliers and example on page 1-ii.

Table 1.3 110 E Allowable Post / Upright Heights for Eagle Metal Distributors, Inc. for Primary Screen Wall Frame Members

Aluminum Alloy 6061 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 0.043"	7'-5"	d	6'-9"	d	6'-3"	d	5'-10"	d	5'-5"	b	5'-0"	b	4'-8"	b		
3" x 2" x 0.045"	8'-4"	d	7'-7"	d	7'-1"	d	6'-8"	d	6'-3"	b	5'-9"	b	5'-5"	b		
3" x 2" x 0.070"	9'-6"	d	8'-8"	d	8'-0"	d	7'-7"	d	7'-2"	d	6'-10"	d	6'-7"	d		
2" x 3" x 0.045"	10'-7"	d	9'-7"	d	8'-11"	d	8'-3"	b	7'-7"	b	7'-0"	b	6'-7"	b		
2" x 4" x 0.050"	13'-10"	d	12'-7"	d	11'-6"	b	10'-5"	b	9'-7"	b	8'-11"	b	8'-4"	b		
2" x 5" x 0.060"	17'-8"	d	16'-0"	d	14'-11"	d	14'-0"	d	13'-3"	b	12'-5"	b	11'-9"	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 0.045 x 0.088"	15'-10"	d	14'-5"	d	13'-4"	d	12'-7"	d	11'-10"	b	10'-11"	b	10'-3"	b		
2" x 5" x 0.050" x 0.116"	19'-5"	d	17'-7"	d	16'-4"	d	15'-5"	d	14'-3"	b	13'-3"	b	12'-4"	b		
2" x 6" x 0.050" x 0.120"	22'-7"	d	20'-7"	d	19'-1"	d	17'-6"	b	16'-1"	b	14'-10"	b	13'-10"	b		
2" x 7" x 0.055" x 0.120"	25'-8"	d	23'-4"	d	21'-8"	d	20'-5"	d	18'-11"	b	17'-7"	b	16'-6"	b		
2" x 8" x 0.070" x 0.224"	31'-1"	d	28'-3"	d	26'-2"	d	23'-11"	b	21'-11"	b	20'-4"	b	18'-11"	b		
2" x 9" x 0.070" x 0.204"	33'-6"	d	30'-2"	b	26'-11"	b	24'-7"	b	22'-9"	b	21'-3"	b	19'-11"	b		
2" x 9" x 0.082" x 0.326"	35'-11"	d	32'-8"	d	30'-4"	d	28'-6"	d	27'-1"	d	25'-11"	d	24'-7"	b		
2" x 10" x 0.090" x 0.374"	41'-11"	d	38'-1"	d	35'-4"	d	33'-3"	d	31'-7"	d	30'-3"	d	29'-1"	d		

Note:
1. Thicknesses shown are "nominal" industry standard tolerances. No wall thickness shall be less than 0.040".
2. Using screen panel width 'W' select 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.

Table 1.4 110 E Eagle Metal Distributors, Inc. Post / Girt / Chair Rail Spans, Header Spans & Upright Heights for Secondary Screen Wall Frame Members

Aluminum Alloy 6061 T-6

For 3 second wind gust at a velocity of 110 MPH, Exposure "B" or an applied load of 13 # / sq. ft.

A. Sections As Horizontals Fastened To Posts With Clips

Hollow Sections	Tributary Load Width 'W' = Member Spacing													
	3'-6"		4'-0"		4'-6"		5'-0"		5'-6"		6'-0"		6'-8"	
	Allowable Height "H" or Span "L" / bending (b), deflection (d)													
2" x 2" x 0.043"	7'-0"	d	6'-9"	d	6'-5"	d	6'-3"	d	6'-0"	d	5'-10"	b	5'-6"	b
3" x 2" x 0.045"	7'-11"	d	7'-7"	d	7'-3"	d	7'-1"	d	6'-10"	d	6'-8"	d	6'-3"	b
2" x 3" x 0.045"	10'-0"	d	9'-7"	d	9'-2"	d	8'-11"	d	8'-6"	b	8'-1"	b	7'-7"	b
3" x 2" x 0.070"	9'-0"	d	8'-8"	d	8'-3"	d	8'-0"	d	7'-9"	d	7'-7"	d	7'-3"	d
2" x 4" x 0.050"	13'-2"	d	12'-7"	d	11'-11"	b	11'-5"	b	10'-10"	b	10'-3"	b	9'-8"	b
2" x 5" x 0.060"	16'-9"	d	16'-0"	d	15'-4"	d	14'-11"	d	14'-5"	d	14'-0"	d	13'-6"	d

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

Hollow Sections	Tributary Load Width 'W' = Member Spacing													
	3'-6"		4'-0"		4'-6"		5'-0"		5'-6"		6'-0"		6'-8"	
	Allowable Height "H" or Span "L" / bending (b), deflection (d)													
2" x 2" x 0.043"	8'-10"	b	8'-2"	b	7'-7"	b	7'-3"	b	6'-10"	b	6'-6"	b	6'-1"	b
3" x 2" x 0.045"	10'-1"	b	9'-5"	b	8'-8"	b	8'-3"	b	7'-10"	b	7'-5"	b	7'-0"	b
2" x 3" x 0.045"	12'-4"	b	11'-5"	b	10'-7"	b	10'-1"	b	9'-6"	b	9'-1"	b	8'-6"	b
3" x 2" x 0.070"	12'-1"	d	11'-7"	d	11'-1"	d	10'-9"	d	10'-3"	b	9'-10"	b	9'-4"	b
2" x 4" x 0.050"	15'-7"	b	14'-6"	b	13'-5"	b	12'-9"	b	12'-1"	b	11'-6"	b	10'-10"	b
2" x 5" x 0.060"	21'-0"	b	19'-8"	b	18'-4"	b	17'-7"	b	16'-9"	b	16'-0"	b	15'-3"	b

Note:
1. Thicknesses shown are "nominal" industry standard tolerances. No wall thickness shall be less than 0.040".
2. Using screen panel width 'W' select girt lengths.
3. Site specific engineering required for pool enclosures over 30' in mean roof height.
4. Span/height is to be measured from center of beam and upright connection to fascia or wall connection.
5. Chair rails of 2" x 2" x 0.044" min. and set @ 36" in height are designed to be residential gardrails provided they are attached with min. (3) #10 x 1-1/2" s.m.s. into the screw bosses and do not exceed 8'-0" o.c.
6. Girt spacing shall not exceed 6'-8".
7. Max. beam size for 2" x 5" is 2" x 7" x 0.055" x 0.120"
8. 2" x 4" & 2" x 5" hollow girts shall be connected w/ an internal or external 1-1/2" x 1-1/2" x 0.044" angle.
9. Spans/heights may be interpolated.
10. To convert spans to "C" and "D" exposure categories see exposure multipliers and example on page 1-ii.

Table 1.10 120 E Eagle Metal Distributors, Inc. Allowable Spans for 5" Super Gutter and Self Mating Beam Screened Enclosure One Side/Solid Roof Other Side

Aluminum Alloy 6061 T-6

for Areas in Wind Zones of 110 and 120 M.P.H., Exposure "B" or Less and Latitudes Below 30°-30'-00" North
Uniform Load on Screen = 4 #/SF, Solid Roof = 27.4 #/SF
300# Point Load is Considered over (1) LF of Beam

Single Self-Mating Beams	Tributary Load Width															
	10'-0"		12'-0"		14'-0"		16'-0"		18'-0"		20'-0"		22'-0"			
	Allowable Span 'L' / Point Load (P) or Uniform Load (U), bending (b) or deflection (d)															
2" x 6" x 0.050" x 0.120"	15'-4"	Ud	15'-2"	Ud	14'-11"	Ud	14'-9"	Ud	14'-6"	Ud	14'-4"	Ud	14'-2"	Ud		
2" x 7" x 0.055" x 0.120"	12'-8"	Ub	12'-4"	Ub	12'-1"	Ub	11'-10"	Ub	11'-8"	Ub	11'-5"	Ub	11'-3"	Ub		
2" x 8" x 0.072" x 0.224"	17'-3"	Ub	16'-11"	Ub	16'-7"	Ub	16'-3"	Ub	15'-11"	Ub	15'-7"	Ub	15'-4"	Ub		
2" x 9" x 0.072" x 0.204"	17'-9"	Ub	17'-4"	Ub	17'-0"	Ub	16'-8"	Ub	16'-4"	Ub	16'-1"	Ub	15'-9"	Ub		
2" x 9" x 0.082" x 0.326"	21'-6"	Ub	21'-0"	Ub	20'-7"	Ub	20'-2"	Ub	19'-9"	Ub	19'-5"	Ub	19'-1"	Ub		
2" x 10" x 0.090" x 0.374"	25'-7"	Ub	25'-0"	Ub	24'-6"	Ub	24'-0"	Ub	23'-7"	Ub	23'-1"	Ub	22'-8"	Ub		

Note:
1. If the solid panel is greater or less than 10'-0", then the 1/2 the allowable screen roof beam span shall be adjusted by the factor of +/- 2 x 1/2 (the solid roof panel span difference between the actual and 10'-0"). The adjustment to the allowable screen roof panel width is applied as a plus if the solid roof panel is larger than 10'-0" and minus if the solid roof panel is smaller than 10'-0".
2. For span of "L" of beam; use screen panel width "W" from drawing.
3. Load span = 1/2 of screen beam length + 1/2 of solid roof span .
4. Spans may be interpolated.
5. For minimum beam to upright sizes use Table 2.3
6. To convert spans to "C" and "D" exposure categories see exposure multipliers and example on page 1-ii.

Table 1.5.1 120 E Eagle Metal Distributors, Inc. Allowable Spans for Miscellaneous Framing Beams as Supporting Screen Roof Frame Members Both Ends of Beam Attached to Host Structure (Not Axially Loaded) for Areas with Wind Loads 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
Aluminum Alloy 6061 T-6

Single Single Self-Mating Beams	Tributary Load Width															
	10'-0"		14'-0"		18'-0"		22'-0"		26'-0"		30'-0"		34'-0"		38'-0"	
	Allowable Span 'L' / Point Load (P) or Uniform Load (U), bending (b), deflection (d)															
2" x 4" x 0.045 x 0.088"	12'-11"	Pd	12'-11"	Ub	11'-5"	Ub	10'-4"	Ub	9'-6"	Ub	8'-10"	Ub	8'-3"	Ub	7'-10"	Ub
2" x 5" x 0.050" x 0.116"	15'-9"	Pd	15'-1"	Ub	13'-3"	Ub	12'-0"	Ub	11'-1"	Ub	10'-4"	Ub	9'-8"	Ub	9'-2"	Ub
2" x 6" x 0.050" x 0.120"	18'-5"	Pd	16'-5"	Ub	14'-5"	Ub	13'-1"	Ub	12'-0"	Ub	11'-2"	Ub	10'-6"	Ub	9'-11"	Ub
2" x 7" x 0.055" x 0.120"	20'-5"	Ub	17'-3"	Ub	15'-3"	Ub	13'-9"	Ub	12'-8"	Ub	11'-10"	Ub	11'-1"	Ub	10'-6"	Ub
2" x 8" x 0.070" x 0.224"	25'-4"	Pd	21'-11"	Ub	19'-4"	Ub	17'-6"	Ub	16'-1"	Ub	14'-11"	Ub	14'-1"	Ub	13'-3"	Ub
2" x 9" x 0.070" x 0.204"	27'-0"	Ub	22'-10"	Ub	20'-2"	Ub	18'-3"	Ub	16'-9"	Ub	15'-7"	Ub	14'-8"	Ub	13'-10"	Ub
2" x 9" x 0.082" x 0.326"	29'-3"	Pd	27'-5"	Ub	24'-2"	Ub	21'-10"	Ub	20'-1"	Ub	18'-9"	Ub	17'-7"	Ub	16'-8"	Ub
2" x 10" x 0.090" x 0.374"	34'-2"	Pd	31'-11"	Ub	28'-2"	Ub	25'-6"	Ub	23'-8"	Ub	21'-10"	Ub	20'-6"	Ub	19'-5"	Ub

Single Single Self-Mating Beams	Tributary Load Width															
	10'-0"		14'-0"		18'-0"		22'-0"		26'-0"		30'-0"		34'-0"		38'-0"	
	Allowable Span 'L' / Point Load (P) or Uniform Load (U), bending (b), deflection (d)															
2" x 4" x 0.045 x 0.088"	12'-11"	Pd	12'-11"	Pd	12'-2"	Ub	11'-0"	Ub	10'-2"	Ub	9'-5"	Ub	8'-10"	Ub	8'-5"	Ub
2" x 5" x 0.050" x 0.116"	15'-9"	Pd	15'-9"	Pd	14'-8"	Ub	13'-4"	Ub	12'-3"	Ub	11'-5"	Ub	10'-8"	Ub	10'-1"	Ub
2" x 6" x 0.050" x 0.120"	18'-5"	Pd	18'-3"	Ub	16'-1"	Ub	14'-7"	Ub	13'-5"	Ub	12'-6"	Ub	11'-9"	Ub	11'-1"	Ub
2" x 7" x 0.055" x 0.120"	20'-11"	Pd	19'-10"	Ub	17'-6"	Ub	15'-10"	Ub	14'-7"	Ub	13'-7"	Ub	12'-9"	Ub	12'-1"	Ub
2" x 8" x 0.070" x 0.224"	25'-4"	Pd	25'-4"	Pd	24'-11"	Ub	22'-7"	Ub	20'-9"	Ub	19'-4"	Ub	18'-2"	Ub	17'-2"	Ub
2" x 9" x 0.070" x 0.204"	27'-3"	Pd	27'-3"	Pd	25'-9"	Ub	23'-3"	Ub	21'-5"	Ub	19'-11"	Ub	18'-9"	Ub	17'-9"	Ub
2" x 9" x 0.082" x 0.326"	29'-3"	Pd	29'-3"	Pd	29'-3"	Pd	27'-5"	Ud	25'-11"	Ud	24'-5"	Ud	22'-11"	Ud	21'-9"	Ud
2" x 10" x 0.090" x 0.374"	34'-2"	Pd	34'-2"	Pd	34'-2"	Pd	31'-11"	Ud	30'-3"	Ud	28'-10"	Ud	27'-8"	Ud	26'-2"	Ub

Note:
1. It is recommended that the engineer be consulted on any carrier beam that spans more than 50'
2. Span is measured from center of connection to fascia or wall connection.
3. 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.
4. Spans may be interpolated.
5. To convert spans to "C" and "D" exposure categories see exposure multipliers and example on page 1-ii.

Table 1.5.2 120 E Eagle Metal Distributors, Inc. Allowable Spans for Miscellaneous Framing Beams as Supporting Screen Roof Frame Members One End of Beam Attached to Host Structure for Areas with Wind Loads of 110 & 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
Aluminum Alloy 6061 T-6

Single Single Self-Mating Beams	Tributary Load Width															
	10'-0"		14'-0"		18'-0"		22'-0"		26'-0"		30'-0"		34'-0"		38'-0"	
	Allowable Span 'L' / Point Load (P) or Uniform Load (U), bending (b), deflection (d)															
2" x 4" x 0.045 x 0.088"	12'-11"	Pd	12'-11"	Pd	12'-2"	Ub	11'-0"	Ub	10'-2"	Ub	9'-5"	Ub	8'-10"	Ub	8'-5"	Ub
2" x 5" x 0.050" x 0.116"	15'-9"	Pd	15'-9"	Pd	14'-8"	Ub	13'-4"	Ub	12'-3"	Ub	11'-5"	Ub	10'-8"	Ub	10'-1"	Ub
2" x 6" x 0.050" x 0.120"	18'-5"	Pd	18'-3"	Ub	16'-1"	Ub	14'-7"	Ub	13'-5"	Ub	12'-6"	Ub	11'-9"	Ub	11'-1"	Ub
2" x 7" x 0.055" x 0.120"	20'-11"	Pd	19'-10"	Ub	17'-6"	Ub	15'-10"	Ub	14'-7"	Ub	13'-7"	Ub	12'-9"	Ub	12'-1"	Ub
2" x 8" x 0.070" x 0.224"	25'-4"	Pd	25'-4"	Pd	24'-11"	Ub	22'-7"	Ub	20'-9"	Ub	19'-4"	Ub	18'-2"	Ub	17'-2"	Ub
2" x 9" x 0.070" x 0.204"	27'-3"	Pd	27'-3"	Pd	25'-9"	Ub	23'-3"	Ub	21'-5"	Ub	19'-11"	Ub	18'-9"	Ub	17'-9"	Ub
2" x 9" x 0.082" x 0.326"	29'-3"	Pd	29'-3"	Pd	29'-3"	Pd	27'-5"	Ud	25'-11"	Ud	24'-5"	Ud	22'-11"	Ud	21'-9"	Ud
2" x 10" x 0.090" x 0.374"	34'-2"	Pd	34'-2"	Pd	34'-2"	Pd	31'-11"	Ud	30'-3"	Ud	28'-10"	Ud	27'-8"	Ud	26'-2"	Ub

Single Single Self-Mating Beams	Tributary Load Width															
	10'-0"		14'-0"		18'-0"		22'-0"		26'-0"		30'-0"		34'-0"		38'-0"	
	Allowable Span 'L' / Point Load (P) or Uniform Load (U), bending (b), deflection (d)															
2" x 4" x 0.045 x 0.088"	12'-11"	Pd	12'-11"	Ub	11'-5"	Ub	10'-4"	Ub	9'-6"	Ub	8'-10"	Ub	8'-3"	Ub	7'-10"	Ub
2" x 5" x 0.050" x 0.116"	15'-9"	Pd	15'-1"	Ub	13'-3"	Ub	12'-0"	Ub	11'-1"	Ub	10'-4"	Ub	9'-8"	Ub	9'-2"	Ub
2" x 6" x 0.050" x 0.120"	18'-5"	Pd	16'-5"	Ub	14'-5"	Ub	13'-1"	Ub	12'-0"	Ub	11'-2"	Ub	10'-6"	Ub	9'-11"	Ub
2" x 7" x 0.055" x 0.120"	20'-5"	Ub	17'-3"	Ub	15'-3"	Ub	13'-9"	Ub	12'-8"	Ub	11'-10"	Ub	11'-1"	Ub	10'-6"	Ub
2" x 8" x 0.070" x 0.224"	25'-4"	Pd	21'-11"	Ub	19'-4"	Ub	17'-6"	Ub	16'-1"	Ub	14'-11"	Ub	14'-1"	Ub	13'-3"	Ub
2" x 9" x 0.070" x 0.204"	27'-0"	Ub	22'-10"	Ub	20'-2"	Ub	18'-3"	Ub	16'-9"	Ub	15'-7"	Ub	14'-8"	Ub	13'-10"	Ub
2" x 9" x 0.082" x 0.326"	29'-3"	Pd	27'-5"	Ub	24'-2"	Ub	21'-10"	Ub	20'-1"	Ub	18'-9"	Ub	17'-7"	Ub	16'-8"	Ub
2" x 10" x 0.090" x 0.374"	34'-2"	Pd	31'-11"	Ub	28'-2"	Ub	25'-6"	Ub	23'-8"	Ub	21'-10"	Ub	20'-6"	Ub	19'-5"	Ub

Note:
1. It is recommended that the engineer be consulted on any carrier beam that spans more than 50'
2. Span is measured from center of connection to fascia or wall connection.
3. 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.
4. Spans may be interpolated.
5. To convert spans to "C" and "D" exposure categories see exposure multipliers and example on page 1-ii.

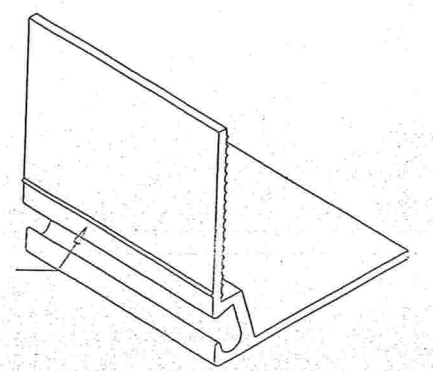
EAGLE 6061 ALLOY IDENTIFIER™ INSTRUCTIONS FOR PERMIT PURPOSES

To: Plans Examiners and Inspectors,

These identification instructions are provided to contractors for permit purposes. The pictures below illustrate our unique "raised" external identification mark (Eagle 6061™) and its location next to the spline groove, to signify our 6061 alloy extrusions. It is ultimately the purchaser's / contractor's responsibility to ensure that the proper alloy is used in conjunction with the engineering selected for construction. We are providing this identification mark to simplify identification when using our 6061 Alloy products.

A separate signed and sealed certification letter from Eagle Metals will be provided once the metal is purchased. This should be displayed on site for review at final inspection.

The inspector should look for the identification mark as specified below to validate the use of 6061 engineering.



EAGLE 6061 I.D.
DIE MARK

1-8-2008

EAGLE METAL DISTRIBUTORS, INC.
THE FREEDOM OF CHOICE
603-B W. LANDSTREET ROAD, ORLANDO, FL. 32824
TEL: 407-367-0688 • FAX: 407-367-0684

ALUMINUM STRUCTURES DESIGN MANUAL
SCREEN ENCLOSURES
6061-T6 Alloy Frame Members - 110 MPH Zone
2004 FBC W/ 2006 SUPPLEMENTS
2006 EDITION

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

SEAL

SHEET
16A-110
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Table 1.6 Minimum Upright Sizes and Number of Screws for Connection of Roof Beams To Wall Uprights or Beam Splicing

Beam/Upright or Post	Upright or Post/Beam	Minimum Purlin, Girt & Knee Brace Size	Minimum Number of Screws*			Beam Stitching Screw at 24" OC
			#8 x ½"	#10 x ½"	#12 x ½"	
2 x 4 SMB	2 x 3 SMB or H	2" x 2" x 0.044"	8	6	4	#10
2 x 5 SMB	2 x 3 SMB or H	2" x 2" x 0.044"	8	6	4	#8
2 x 6 SMB	2 x 3 SMB or H	2" x 2" x 0.044"	10	8	6	#36
2 x 7 SMB	2 x 4 SMB or H	2" x 3" x 0.044"	14	12	10	#12
2 x 8 SMB	2 x 5 SMB or H	2" x 3" x 0.044"	16	14	12	#14
2 x 9 SMB	2 x 6 SMB	2" x 3" x 0.045"	18	16	14	#14**
2 x 9 SMB *	2 x 7 SMB	2" x 4" x 0.050"	20	18	16	#14**
2 x 10 SMB	2 x 8 SMB	2" x 5" x 0.050"	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 4" 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.)
9. All connection shall use a full lap cut.

Table 1.7 Minimum Size Screen Enclosure Knee Braces and Anchoring Required
Aluminum 6063 T-6

Brace Length*	Extrusion	Anchoring System
0' - 2'-0"	2" x 2" x 0.044"	2" H-Channel With (3) #10 x 1/2" each leg of channel
To 3'-0"	2" x 3" x 0.045"	2" H-Channel With (3) #10 x 1/2" each leg of channel
Up to 6'-0"	2" x 4" x 0.044" x 0.100"	2" H-Channel With (4) #10 x 1/2" each leg of channel

* Knee brace length shall be the horizontal and vertical length @ a 45° angle from the center of the connection to the face of the beam or upright.
Note:
1. For required knee braces greater than 4'-6" contact engineer for specifications and details.
2. Cantilever beam detail shown on page 1-40 shall be used for transom wall to host structure attachment when knee brace length exceeds 6'-0".

Table 1.8 K-Bracing Fastening Schedule

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

*** Use screw sizes specified in the table below.**
Use front wall width when determining number of s.m.s. for the side wall K-bracing.
Use side wall width when determining number of s.m.s. for the front and / or back wall K-bracing.

Wind Zone	Screw Size
90 MPH	#10
100 MPH.	#10
110 MPH	#10
120 MPH	#10
130 MPH	#12
140-1&2 MPH	#14
150 MPH	#14

Table 1.11 Maximum Overhang for Rafter / Truss Tails when Connected to Screen Roof

20' Max. Enclosure Span		Rafter / Truss Tail #2 Span / bending (b) or deflection (d)									
Wind Zone ("B" Exp.)	Wind Pressure (#/SF)	2x4		2x6		2x8		2x10		2x12	
100-110	4	2'-2"	b	5'-4"	b	9'-3"	b	15'-0"	b	22'-3"	b
120	4	2'-2"	b	5'-4"	b	9'-3"	b	15'-0"	b	22'-3"	b
123	4.3	2'-0"	b	4'-11"	b	8'-7"	b	13'-11"	b	20'-8"	b
130	5	1'-9"	b	4'-3"	b	7'-5"	b	12'-0"	b	17'-10"	b
140	6	1'-5"	b	3'-7"	b	6'-2"	b	10'-0"	b	14'-10"	b
150	7	1'-3"	b	3'-0"	b	5'-3"	b	8'-7"	b	12'-9"	b
30' Max. Enclosure Span		Rafter / Truss Tail #2 Span / bending (b) or deflection (d)									
Wind Zone ("B" Exp.)	Wind Pressure (#/SF)	2x4		2x6		2x8		2x10		2x12	
100-110	4	1'-5"	b	3'-7"	b	6'-2"	b	10'-0"	b	14'-10"	b
120	4	1'-5"	b	3'-7"	b	6'-2"	b	10'-0"	b	14'-10"	b
123	4.3	1'-4"	b	3'-4"	b	5'-9"	b	9'-4"	b	13'-10"	b
130	5	1'-2"	b	2'-10"	b	4'-11"	b	8'-0"	b	11'-10"	b
140	6	0'-11"	b	2'-4"	b	4'-1"	b	6'-8"	b	9'-11"	b
150	7	0'-10"	b	2'-0"	b	3'-6"	b	5'-9"	b	8'-6"	b
40' Max. Enclosure Span		Rafter / Truss Tail #2 Span / bending (b) or deflection (d)									
Wind Zone ("B" Exp.)	Wind Pressure (#/SF)	2x4		2x6		2x8		2x10		2x12	
100-110	4	1'-1"	b	2'-8"	b	4'-7"	b	7'-6"	b	11'-1"	b
120	4	1'-1"	b	2'-8"	b	4'-7"	b	7'-6"	b	11'-1"	b
123	4.3	1'-0"	b	2'-6"	b	4'-4"	b	6'-11"	b	10'-4"	b
130	5	0'-10"	b	2'-2"	b	3'-8"	b	6'-0"	b	8'-11"	b
140	6	0'-9"	b	1'-9"	b	3'-1"	b	5'-0"	b	7'-5"	b
150	7	0'-7"	b	1'-6"	b	2'-8"	b	4'-4"	b	6'-4"	b

Note:
1. For overhangs with spans that exceed those listed above site specific engineering is required.
2. If truss bottom cord extends more than 24" over the wall site specific engineering is required.
3. To convert from exposure "B" spans to "C" or "D" exposure spans see multipliers and example on page 1ii.
Example:
For a pool inclosure with 30' max. beam span, in a 123 MPH wind zone, "B" exposure. For 2 x 6 rafter / truss the max overhand from the wall of the host structure to the sub-fascia is 3'-4".
To convert from exposure "B" spans to "C" or "D" exposure spans see multipliers and example on page 1ii.

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