DATE <u>02/0</u>	2/2009	Columbia This Permit Must Be Pro	County Build		nstruction	PERMIT 000027611
APPLICANT	CRAIG TI	MBERLAKE	**************************************	PHONE	352.472.6850	000027011
ADDRESS	25370	NW 8TH PLACE	NE NE	EWBERRY		FL 32669
OWNER	CLINT R.I	PITTMAN		PHONE	386.623.0415	
ADDRESS	4143	SW WATSON ROAD	FT	:WHITE		FL 32038
CONTRACTO	OR CAR	RL HELMS		PHONE	352.860.2399	
LOCATION O	F PROPER	ΓΥ 47-S TO COL. C	ITY TO WATSON RE	TR FOLLOW TO	END @ DREW	
		FEAGLE, DRIVI	EWAY TO R CURVE	@ WATSON & DE	REW FEAGLE	
TYPE DEVEL	OPMENT	POOL ENCLOSURE	ESTIMA	TED COST OF CO	NSTRUCTION	13420.00
HEATED FLO	OOR AREA		TOTAL AREA		HEIGHT _	STORIES
FOUNDATIO	N	WALLS	ROOF	PITCH	FL	OOR
LAND USE &	ZONING	A-3		MAX	. HEIGHT	
Minimum Set	Back Requir	ments: STREET-FRON	Т 30.00	REAR	25.00	SIDE
NO. EX.D.U.	1	FLOOD ZONE	DEV	ELOPMENT PER	MIT NO.	
PARCEL ID	30-5S-16-	03738-023	SUBDIVISION	JR DICKS TRAC	Γ	
LOT 23	BLOCK	PHASE	UNIT	TOTA	AL ACRES 10.	.15
COMMENTS:	NOC ON	FILE.			Check # or Ca	ash 1789
		FOR BUILDI	NG & ZONING D	DEPARTMENT		
Temporary Pov	wer		oundation	ZEI ARTIMERTI	Monolithic	(footer/Slab)
remporary ro		date/app. by		te/app. by		date/app. by
Under slab rou	gh-in plumb	ing	Slab		Sheathing/	Nailing
		date/app. by		date/app. by		date/app. by
Framing	date/ap		gh-in plumbing above s	slab and below woo	d floor	date/app. by
Electrical roug			t & Air Duct		Dani haam (Linta	2000 00 00 00 00 10 00 0 00 00 0 0 00 00 00 00 00 00 00 00 00 00 00 00
		date/app. by		date/app. by	Peri. beam (Linte	date/app. by
Permanent pow		te/app. by	O. Final		Culvert	1.1.1.1
M/H tie downs		lectricity and plumbing	date/a	app. by	Pool	date/app. by
with the downs,	, blocking, c	_	date/app. by			date/app. by
Reconnection	18 - 31- 1	date/app. by	ump pole date/app.	Utility Po	date/app. by	
M/H Pole		Travel Tra	ailer	•	Re-roof	
da	ite/app. by		date/a	pp. by		date/app. by
BUILDING PE	ERMIT FEE	\$70.00 CER	TIFICATION FEE \$	0.00	SURCHARGE	E FEE \$0.00
MISC. FEES	0.00	ZONING CERT	. FEE \$ 50.00	FIRE FEE \$ 0.00	WAST	 TE FEE \$
FLOOD DEVE	LOPMENT	FEE \$ FLOOD ZO	ONE FEE \$	CULVERT FEE \$	тот	TAL FEE 120.00

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.

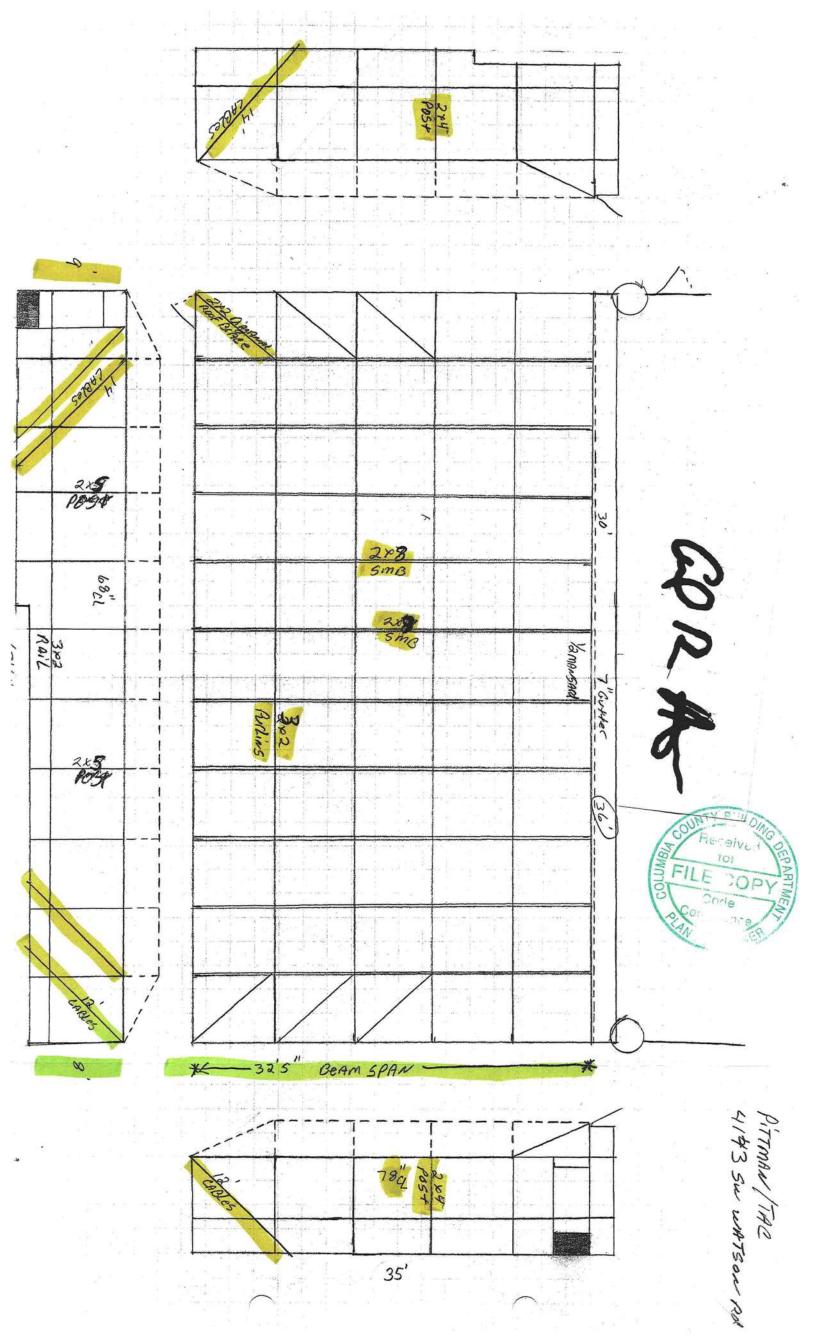
INSPECTORS OFFICE

"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."

CLERKS OFFICE

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 TO BE IN ACTIVE PROGESS WHEN THE PERMIT HAS RECIEVED AN APPROVED INSPECTION WITHIN 180 DAYS.

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



Columbia County Building Permit Application

For Office Use Only Application					
Zoning Official Date					
FEMA Map # Elevation	MFE	River	Plans E	xaminer	_ Date 2-2-0
Comments	6/91				
NOC EH Deed or PA Site					
Dev Permit #	□ In Floodway □ Let	ter of Auth. from	m Contracto	FW Comp. I	etter
IMPACT FEES: EMSSchool		Corr	R	load/Code	
Septic Permit No. 1-09-02	T IN File Boll		F	ax 352 472	-6855
Name Authorized Person Signing Pe	ermit Craig T	imberla	He P	hone <u>352-472</u>	1-6850
Address 25370 NW	8th pl New !	Berry FL	3266	9	
Owners Name Clint Pitt	MAN		Pho	one <u>386-623</u>	-0415
911 Address 4/43 Sw u	actions of a	Fort who	TEFL	32038	
Contractors Name CACL R				ne 352-860	
Address 25370 NW 8th	pl newBerr	5 FL 3	2669		
Fee Simple Owner Name & Address	Clint Pittm	AN 4143	Sh WA	TSon Rd	
Bonding Co. Name & Address	VIA				
Architect/Engineer Name & Addres	s Bennett E	ignering			
Mortgage Lenders Name & Address	1/9				
Circle the correct power company				//	
Property ID Number 36 -55-16					
Subdivision Name	****		_ Lot <u>23</u>	Block Unit	Phase
Driving Directions 47 South	to WATSON D.	T/R 57	TAY LEFT	AT FORK O	n Right
Driving Directions 47 South 4143 (when Rd Luc	ves Left Dri	re way o	n Right)	
Construction of 1002 ENRY		Number of	Existing Dwe	ellings on Property	2
Construction of TOOL ENCY	SUPE		Total Acre	eage 10.15 Lot	Size
Do you need a - <u>Culvert Permit</u> or <u>C</u>	Culvert Waiver or Hav	ve an Existing D	rive To	tal Building Height	
Actual Distance of Structure from Pro	perty Lines - Front_/	50 T Side_	220'	Side 260 Re	ar 340'V
Number of Stories/_ Heated Flo	or Area	Total Floor	Area 2/8	7.5 Roof Pitc	h
Application is hereby made to obtain installation has commenced prior to the fall laws regulating construction in the sub-	the issuance of a per this jurisdiction.	and installation mit and that all - Cld , 1789	s as indicate work be pe	ed. I certify that no rformed to meet th	work or e standards
TOP TOT I (Woth Dagge mouet be sub-		The second second			

Revised 1-10-08

- TI noll-1 nosiG 0.7.09

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

Columbia County Building Permit Application

<u>TIME LIMITATIONS OF APPLICATION</u>: 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:

<u>YOU ARE HEREBY NOTIFIED</u> 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.

<u>WARNING TO OWNER:</u> 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.

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 License Number SCC056710

Contractor's Signature (Permitee)

Contractor's License Number Columbia County Competency Card Number or Produced Identification or Produced Identification or Produced Identification

SEAL:

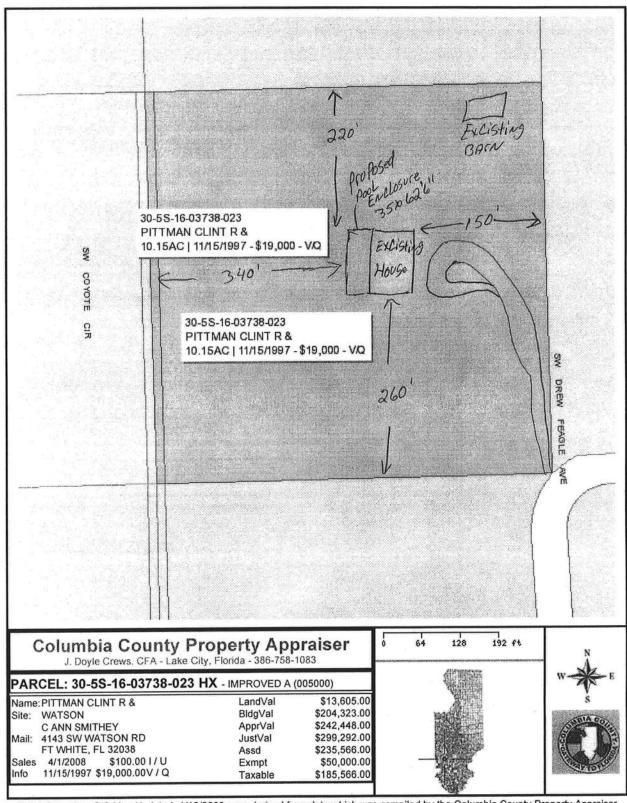
Page 2 of 2 (Both Pages must be submitted together.)

State of Florida Notary Signature (For the Contractor)

Revised 1-10-08

Notary Public State of Florida

Craig Timbertake C My Commission DD730794



This information, GIS Map Updated: 1/12/2009, was derived from data which was compiled by the Columbia County Property Appraiser Office solely for the governmental purpose of property assessment. This information should not be relied upon by anyone as a determination of the ownership of property or market value. No warranties, expressed or implied, are provided for the accuracy of the data herein, it's use, or it's interpretation. Although it is periodically updated, this information may not reflect the data currently on file in the Property Appraiser's office. The assessed values are NOT certified values and therefore are subject to change before being finalized for ad valorem assessment purposes.

Tax Parcel Identification Number 30-33 -16-03/38-023 H/S	
THE UNDERSIGNED hereby gives notice that improvements will be made to certain real property, and in accordance with Section 713.13 of the Florida Statutes, the following information is provided in this NOTICE OF COMMENCEMENT .	
1. Description of property (legal description): AKA LOT 23 JR Dicks TCACT UNR, SE14 of BE14 on NE14. a) Street (job) Address: 4143 SW WATSON Rd FOST WHITE FL 32038 2. General description of improvements: Pool Enclosure for Excisting Pool Deats	•
2. General description of improvements: Pool Enclosure I on Excisting Pool Deck	9
3. Owner Information a) Name and address: Clint Pittman / 4143 Sw watson Rol Fost white FL 32038	
b) Name and address of fee simple titleholder (if other than owner)	
1. Contractor Information a) Name and address: LACL N. Helms 25370 N W 8 th PL NewBerry FL 32669 b) Telephone No: 352 472 - 6850 Fax No. (Opt.) 352 - 472 - 6855	
5. Surety Information	
a) Name and address:	HE STA
b) Amount of Bond: c) Telephone No.: \sqrt{A} Fax No. (Opt.) \sqrt{A}	品品
	A CA
6 Lender a) Name and address: N/A	温音
b) Phone No.	H. H.
7. Identity of person within the State of Florida designated by owner upon whom notices or other documents may be served:	A, C hat th
a) Name and address: V/A b) Telephone No.: V/A Fax No. (Opt.)	12 S
b) Telephone No.: 1/114	COUNTY the above binal filed i
8. In addition to himself, owner designates the following person to receive a copy of the Lienor's Notice as provided in Section 713.13(1)(b).	OF COLUMI and foregoing n this office.
Florida Statutas:	S of
a) Name and address: NA b) Telephone No. NA Fax No. (Opt.) NA	JUN goin
h) Telephone No. ///	COLUMBIA foregoing s office.
9. Expiration date of Notice of Commencement (the expiration date is one year from the date of recording unless a different date is specified):	CHAMMAN.
WARNING TO OWNER: ANY PAYMENTS MADE BY THE OWNER AFTER THE EXPIRATION OF THE NOTICE OF COMMENCEMENT ARE CONSIDERED IMPROPER PAYMENTS UNDER CHAPTER 713, PART I, SECTION 713.13, FLORIDA' STATUTES, AND CAN RESULT IN YOUR PAYING TWICE FOR IMPROVEMENTS TO YOUR PROPERTY; A NOTICE OF COMMENCEMENT MUST BE RECORDED AND POSTED ON THE JOB SITE BEFORE THE FIRST INSPECTION. IF YOUR TO OBTAIN FINANCING, CONSULT YOUR LENDER OR AN ATTORNEY BEFORE COMMENCING WORK OR RECORDING. YOU'R NOTICE OF COMMENCEMENT.	CIRCUIT CO
STATE OF FLORIDA COUNTY OF COLUMBIA	MAINE
COUNTY OF COLUMBIA 10. No Signature of Owner or Owner's Authorized Office/Director/Partner/Manager	
Clint PittMAN	
Print Name	
The foregoing instrument was acknowledged before me, a Florida Notary, this day of Feb 20 9_, by:	
· · · · · · · · · · · · · · · · · · ·	
// / / / / / / / / / / / / / / / / / /	
Clint Pittman as (type of authority, e.g. officer, trustee, attorney	
fact) for	
fact) for	
fact) for	
Personally Known OR Produced Identification Type Notary Public State of Florida Craig Thiberiake C My Commission OD780704	
Personally Known OR Produced Identification Type Notary Signature Categories Testing To Public State of Florida Craig Trinsenake C My Commission 0D780704 Expires 14/2 1/2017.	
Personally Known OR Produced Identification Type Notary Signature Craft Timberiake C My Commission DD780704 Expires 1942 12017. AND— (name of party on behalf of whom instrument was executed). Notary Public State of Florida Craig Timberiake C My Commission DD780704 Expires 1942 12017.	
Personally Known OR Produced Identification Type Notary Signature Notary Stamp or Seal: Notary Signature Notary Stamp or Seal: Notary	
Personally Known OR Produced Identification Type Notary Signature Craft Timberiake C My Commission DD780704 Expires 1942 12017. AND— (name of party on behalf of whom instrument was executed). Notary Public State of Florida Craig Timberiake C My Commission DD780704 Expires 1942 12017.	



This letter is to certify that the company/person listed below has authorization to use Town & Country Industries engineering supplied by Lawrence E Bennett, PE. FL #16644.

A certified original approval letter from Town & Country Industries must accompany all Town & Country Industries engineering packages along with either a certified approved master filed contractor list or raised seal engineering.

It is the exclusive responsibility of the contractor and or purchaser to ensure the proper alloy is used in the structure when permitting with Town & Country Industries engineering.

Job address 4143 SW WATSON Rd.
Fort white, FL 32038

Signed Date 1/27/09
Town & Country Representative/District Manager







TOWN & COUNTRY INDUSTRIES Route Page Number: a division of ARC Supply Co. Inc. Date 01/28/09 d and the second Time 13:03:19 eiving Hours 16748 Scheer Boulevard Hudson, FL 34667 Hudson, FL 34667

Of Printing

On Phone (727) 862-5483 or 1-800-283-78825 salupot to Exp. DT 1/28/09

Fax (727) 862-6283 and reverse to be be required as the reverse of Printing

WWW https://www.to-allum.com/ 068/2 Commence Buyers acceptance of the terms \moderate Compt www.tcmalwmw.com/emetalogs and some scene buyers recommendation of the state of creations that purports to valy these terms and conditions of this Furchase Agreement between Buffer and T. & C. shall be undured the many the manufacture this Purchase Agreement. Buyer's consent to the fether and conditions these in shall be constituted by presented the Order: 1574341 subject is saving to easily a considerate and to print it save in the saving and the control of TIMBERLAKE ALUMINUM men 3.5 seemed blood bas TIMBERLAKE ALUMINUM (25.370 NN 834 PLate Lexibute segments on 25.370 NN 834 PLate Lexibute segments NEWBERRY FL 32669 NEWBERRY are to detailed to qui to FL 0 32669

Phone: 352 472 6850 etc. Stevud, inclinated crowde off to be the property of the country of the country of the country to be compared to be the country to the country of the country named on recover have every and the condition of the condition of the effective unless it is made and we then the delivery destination. common of the second political provides to any other nights, to author delivered any other to the second any second of the secon se nult, without projudice to any other rights, to auspend further deliveries of any gode, prontered by Operator: cbarron hanged by Openator to channon and SaT mandation of a very of revold the perform & AT work of the Armer of the very "a imposed by any taxing way by a page to the goods or services purchased or the sale purchase." herufacture naturally areinus, without liability hereus/der, deliveries of any goods, the manufacture, use and/us sele of opinion of T.S.C. would intende any patent now or hereafter requed and under which T.S.C. is not licensed OTY -- UOM - Part TOW - 287 287 287 Description who is made a made project samper and a Amount 20.00 LEACH 1066236 LIXE LAP BRZ To be seed a van 36 x 00 Loop is 2x 320 LEs et 1 1670.45 4.00 EA (1364002 012X5 062 POST 30 BRZ 00 0 8 Tyd baratal ee 2,870 LF 0 1 (344.40 11364230 12X4X045 BRZ 30.00 1 1.580 LF 142.20 11366230 13X2X045 BRZ 30.00 1 1.300 LF 1 390.00 10.00 (EA 10.00:EA 11358230 12X3X045 BRZ: 1 10000 1 1000 1 1000 1 1000 1 1000 1 1000 1 1000 1 1000 1 1000 1 10 12.00 EA V:1016230 12X2 PATIO .040 MIN. BRZ 30.00 1 7 0.970 LF 0.00 EA 7:1006230 1182 PATTO 040 MIN. BRZ 30.00 T 0.550 LF 1 165.00 3.00 EA 7:2693212 112'S.S-CABLE W/BRZ TRI-BRKT | 8.260 EA 12.24.78 3.00:EACT 2693214 114'S.S-CABLE WYBRZ TRI-BRKT 1 4 8.4701EA 1 2.00 EA / 11827216 PHR FRAME FULL Z-16"KP BRZ 1 59.850 EA 1 mar iM/Meather Strip o pompose not proved souls full timenes of harms become 2.00 EA / 12049200 LATCH & CLOSER KIT BRZ S.S. RODI 6:000 EA 1 12066200 (BUGSWEEP 36" BRZ 1 0 0 0 0 900 EA ALL METAL 19 6005

ALL METAL 19 6005

Control of the state of the stat blos sealvise to about bill or find which of the vid of grillinges, letter of the case to see to see to a secure of the time of the destroy of the destroy of the secure of the s emende of the sixther tree of a state of the ma manage A second Tall and Total Amount: 3880.33 List of the List of the state of the court with a factor and the court of the court siebno nime Purchasa Agreement or the goose or on the street to the law divisit manufacture its interor then those stated bendin, and no agreenees at on the elements of our way perporting to medify the terms are extranoof conditions of and subsequent or continued to every limited accounts are provided or the Duchage t affect the validity of enforceasing at the remaining on years. For the sandre

for @ 120,MPH	appropriate 120 MPH span table and apply the following form Re (b or d) x (b or d) x (b or d) = Multiplier	Contractor / Authorized Rep' Name (please print) Contractor Authorized Rep' Signature Contractor Authorized Rep' Signature L'TIMBU / U// 43 32 WAT50WM AUTh AE L 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: 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 for load width of MPH wind zone and / or "C' orD" Exposure for load width of MPH wind zone and / or To To To To To	This engineering is valid for permit ONLY if accompanied by a sealed authorization letter from Town & Country Industries Design Statement:
Front yable rise:	R W d R TOTAL = 2 / cable for 3/32") = cable pairs culation=	W H b (2) cable for 3/32") =	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 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 17-Flat Roof Front wall @ eave: Thx ft = ft.² @ 100% = ft.² ft.² m 50% = f
e distre & thickness and to receiver to host structure of guiter o	n on the plans. 2" x 2" b to deck and sole in anchors shall go rect number & spa	Front dome wall @ eave:ft, xft, =ft, @ 100% =ft, 2	= = = 0 0 5 6

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Email: lebpe@bellsouth.net

Jown & Country
INDUSTRIES, INC.
Wholesale Aluminum Distributors

400 W. McNAB ROAD, FORT LAUDERDALE, FLORIDA 33309

INSPECTION GUIDE / DESIGN CHECK LIST 2004 FBC W/ 2006 SUPPLEMENTS

SIGNATURE: CARE AMUCALISTO LICENSE # SCLOS6710 SITE IS EXPOSURE: B EVALUATED BY: Craig unla lake DATE: 1-28-09 EXPOSURE C: 1. OPEN TERRAIN FOR MORE THAN 1,500 FEET IN ANY QUADRANT. EXPOSURE D: 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. NOTE: ZONES ARE MEASURED FROM STRUCTURE OUTWARD EXPOSURE 6 FLAT, OPEN COUNTRY, GRASSLANDS, PONDS AND OCEAN OR SHORELINES IN ANY QUADRANT FOR GREATER THAN 1,500 FEET. NO SHORT TERM CHANGES IN 'B', 2 YEARS BEFORE SITE EVALUATION AND BUILD OUT WITHIN 3 YEARS, SITE WILL BE 'B'. QUADRANT IV 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. ANY 'C' EXPOSURE FOR GREATER THAN 600 FEET IN ANY QUADRANT. 1500' SITE EXPOSURE EVALUATION FORM SCALE: 1" = 1200" EXPOSURE B EXPOSURE B QUADRANT III QUADRANTI 1500' EXPOSURE B QUADRANT II 1500 AUTHORIZED MASTER THE CONTRACTORS DO NOT REQUIRE RAISED SEAL COPIES - ALL OTHER USERS REQUIRE RAISED SEAL COPIES OF ALUMINUM STRUCTURES DESIGN MANUAL awrence E. Bennett, P.E. FL # 16644 SCREEN ENCLOSURES CIVIL & STRUCTURAL ENGINEERING Jown & Country P.O. Box 214368, South Daytona, FI 32121 INSPECTION GUIDE / DESIGN CHECK LIST Telephone #: (386) 767-4774 Fax #: (386) 767-6556 2004 FBC W/ 2006 SUPPLEMENTS Email: lebpe@bellsouth.net 2 400 W. McNAB ROAD, FORT LAUDERDALE, FLORIDA 33309 2006 EDITION PHONE: (954) 970-9999 1-800-432-5019 FAX: (954) 972-1338 © COPYRIGHT 2006

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General Notes and Specifications:

- The following structures are designed to be married to site built block or wood frame DCA approved modular structures of adequate structural capacity. The contractor / home owner shall verify that the host structure is in good condition and of sufficient strength to hold the proposed addition.
- If the owner or contractor has a question about the host structure, the owner (at his own expense) shall hire an architect, engineer, or a certified home inspection company to verify host structure capacity.
- The structures designed using this section shall be limited to a maximum combined span and upright height of 50' and a maximum upright height of 16'. Structures larger than these limits shall have site specific
- Spans are for enclosures with mean roof heights less than 30'. For greater heights, consult engineer. engineering is provided. Connections to fascia shall be limited to overhangs shown in table 1.11 or less unless site specific
- The proper structural name for a chair rail or top rail of an enclosure is a girt. Thus the terminology shall be
- Screws that penetrate the water channel of the super gutter shall have ends clipped off for safety of cleaning gutter and the heads of screws through the gutter into the fascia shall be caulked.
- When using TEK screws in lieu of S.M.S., longer screws must be used to compensate for drill head. Section 7 contains span tables and attachment details for pans and composite panels.

10.

- Super or extruded gutter details are applicable to all widths of super or extruded gutters, and gutters may be substituted. Gutter straps and/or ferrules shall be the width of the inside and outside of the super or extruded An additional super gutter strap or ferrule is required to be located near the midpoint of the beam spacing. Straps shall be attached to each truss / rafter tail when a 2" sub-fascia does not exist. Straps at the beam are not required when straps are placed @ each truss / rafter tail and spacing of straps does not exceed
- If the sub-fascia is 3/4", and the sub-fascia is in good repair, a 3/4" P.T.P. strip the width of the fascia may be added to the existing sub-fascia by attaching the plywood with (2) $16d \times 3$ " common nails or (2) $\#8 \times 3$ " screws. This gives the equivalent of a 2" fascia. lively. The center of the knee braces shall not be more than 6" above the top of the super or
- Spans may be interpolated between values but not extrapolated outside values.
- Load width and / or panel spacing used in determining spans / heights is measured from center to center of of the purlin to the beam and larger purlins shall have an internal or external angle clip or screw boss to fasten the bottom

15.

14.

12.

1

- Screen panel A is 6' center to center. Screen panel B is 7' center to center. The load width of the frame member between panel A and B is (6'/2 + 7'/2) = 6.5' or 6'-6".

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

SCREEN (TYP.)

W

19.

Section 1 Design Statement:

The structures designed for Section 1 are framing systems with screen roofs & walls and loads have been determined by wind tunnel test that include any negative internal pressure coefficient. Since these structures are open, the negative internal pressure coefficient is considered to be 0.00. The design loads used are from Chapter 20 of the 2004 Florida Building Code w/ 2005 Supplements. The loads assume a mean roof height of less than 30°; roof slope of 0° to 20°; I = 0.87 for 100 MPH and 0.77 for 110 or higher. All loads are based on 20 / 20 screen or larger. Multiply wall heights by 1.10 for members controlled by bending(b) and 1.07 for members controlled

K-BRACING (OPTIONAL)

(SEE TABLES 1.3, 1.4 & 1.6)

--- 1" x 2" (TYP.) GRADE

GIRT

HOST STRUCTURE

SIDE WALL MEMBER

TYPICAL FLAT ROOF - FRONT WALL ELEVATION

SCALE: N.T.S.

EXISTING STRUCTURE

General Notes and Specifications for Section 1 Tables:

	Wind Velocity (MPH)	100	110	120	123	130	1401 & 2	150
Basic	Wind Pressure (PSF)	13	14	17	18	20	23	26
	Roofs (PSF)	3	4	4	4.3	5	6	7
Exposure 'B'	Windward Walls (PSF)	12	13	15	15.9	18	21	24
	Leeward Walls (PSF)	10	9	13	13.3	14	15	18
	Roofs (PSF)	cn	51	6	6.3	7	8	9
Exposure 'C'	Windward Walls (PSF)	17	18	21	22.2	25	29	33
	Leeward Walls (PSF)	13	7	17	17.6	19	23	27

0.79	24	0.76	7	150
0.85	21	0.82	6	1401 & 2
0.91	18	0.89	5	130
0.97	15.9	0.96	4.3	123
1.00	15	1.00	4	120
1.07	13	1.00	4	110
1.12	12	1.15	3	100
Conversion	Applied Load (PSF)	Conversion Factor	Applied Load (PSF)	(MPH)

SECTION 1 Uniform Loads for Structures with Screen Roof & Walls

150	1401 & 2	130	123	120	110	100	(MPH)
7	6	5	4.3	4	4	3	Applied Load (PSF)
0.76	0.82	0.89	0.96	1.00	1.00	1.15	Conversion Factor
24	21	18	15.9	15	13	12	Applied Load (PSF)
0.79	0.85	0.91	0.97	1.00	1.07	1.12	Conversion Factor

Notes: Multipliers are for wall loads only. Multipliers only apply to members when spans / heights are controlled by wind pressure, not by point load.

FRONT WALL ALUMINUM COLUMNS K-BRACING (OPTIONAL)

(TABLES 1.3, 1.4 & 1.6)

SIZE MEMBERS PER APPROPRIATE TABLES

Loads per table 2002.4

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

Conversion Table 1A Wind Zone Conversion Factors for Screen Roof or Wall Frame Members From 120 MPH Wind Zone to Others; Exposure 'B'

The state of the s	Wind Zone (MPH)	100	110	120	123	130	1401 & 2	150
Ro	Applied Load (PSF)	3	4	4	4.3	5	6	7
Roofs	Conversion Factor	1.15	1.00	1.00	0.96	68.0	0.82	0.78
W	Applied Load (PSF)	12	13	15	15.9	18	21	24
Walls	Conversion Factor	П	1.07	1.00	0.97	0.91	0.85	0.79

H - MAXIMUM UPRIGHT HEIGHTS
L - MAXIMUM BEAM SPAN WITHOUT KNEE BRACE.
(ADD HORIZONTAL LENGTH OF KNEE BRACE TO SPAN FROM TABLES)
SW - SIDE WALLS CAN BE FRAMED WITHOUT TOP BEAM AND CAN BE SMALLEST EXTRUSIONS ALLOWED BY SPAN TABLES

TYPICAL NOMENCLATURE FOR SCREENED ENCLOSURES

TYPICAL FLAT ROOF - ISOMETRIC SCALE: N.T.S.

CABLE BRACING

THE DESIGNS AND SPANS SHOWN ON THESE DRAWINGS ARE BASED ON THE LOAD REQUIREMENTS FOR THE FLORIDA BUILDING CODE 2004 EDITION W/ 2006 SUPPLEMENTS.

5-21-2007

GIRT (TYP.)

DIAGONAL ROOF BRACING (SEE SCHEMATIC SECTION 1)

PURLIN

(TABLE 1.1 OR 1.8)

ALUMINUM BEAMS

(TABLES 1.3, 1.4 & 1.6)

SIDE WALLS AND FRAMING SIZES

SCREEN PANEL SPACING

×-

CONNECTION DETAILS AND NOTES ARE FOUND IN SUBSEQUENT PAGES

DRAWING FOR ONE PERMIT ONLY

2006

QF

8

ADDRESS:

JOB NAME:

SHEET

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Conversion Table 1B

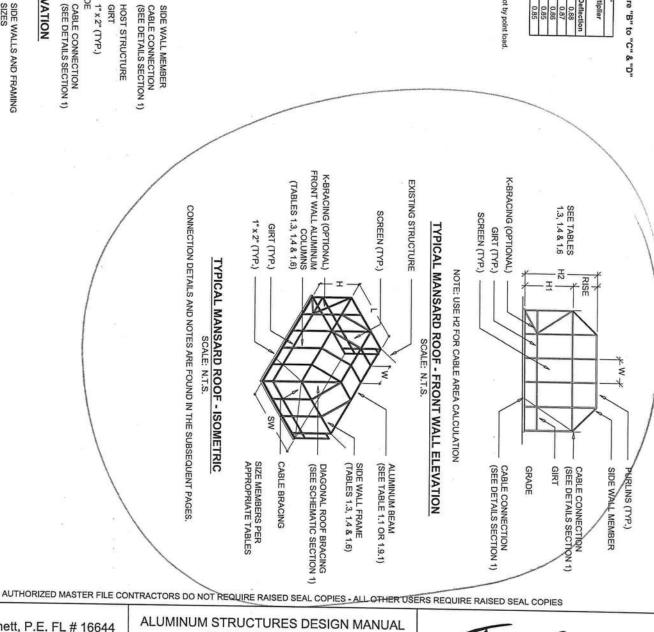
Load Conversion Factors Based on Mean Roof Height from Exposure "B" to "C" & "D"

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

* Use larger mean roof height of host structure or enclosure Values are from ASCE 7-02 Multipliers only apply to members when spans / heights are

members when spans / heights are controlled by wind pressure, not by point load.

Conversion Example (Convert span for Exposure "B" to "C"):
If max span found from span lables for Exposure "B" = 31-11" = 31.92'
and the mean nod height of the structure is 0-15' then multiply span by 0.91
the span for Exposure "C" is 31.92' • 0.91 = 29.05' = 29-1"



PURSUANT TO PROVISIONS OF THE FLORIDA DEPARTMENT OF HIGHWAY SAFETY & MOTOR VEHICLES DIVISION OF MOTOR VEHICLES RULE 15C-2, THE SPAN TABLES, CONNECTION DETAILS, ANCHORING AND OTHER SPECIFICATIONS ARE DESIGNED TO BE MARRIED TO CONVENTIONALLY CONSTRUCTED HOMES AND / OR MANUFACTURED HOMES AND MOBILE HOMES CONSTRUCTED AFTER 1984.

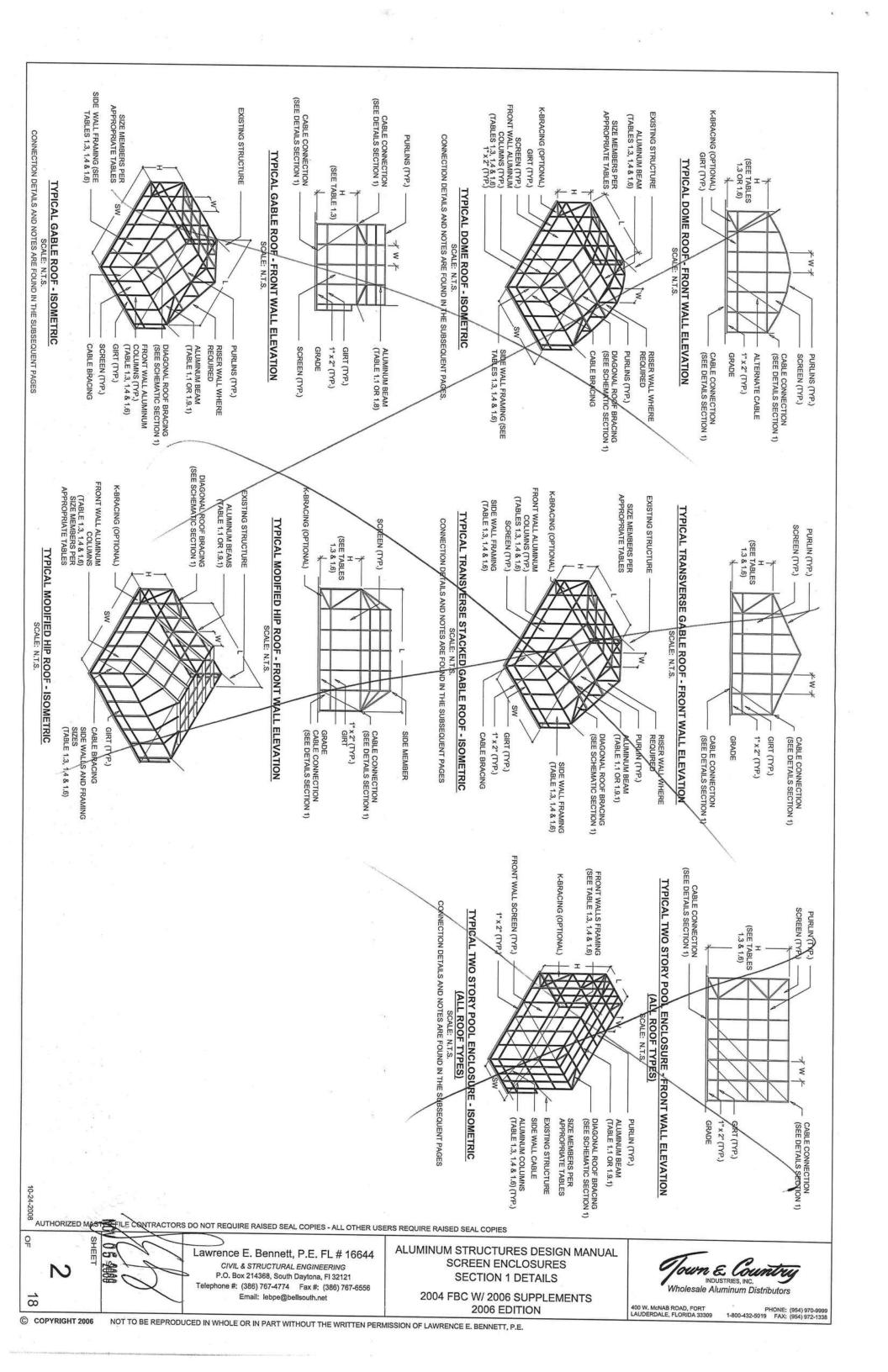
Lawrence E. Bennett, P.E. FL # 16644 CIVIL & STRUCTURAL ENGINEERING P.O. Box 214368, South Daytona, FI 32121 Telephone #: (386) 767-4774 Fax #: (386) 767-6556 Email: lebpe@bellsouth.net

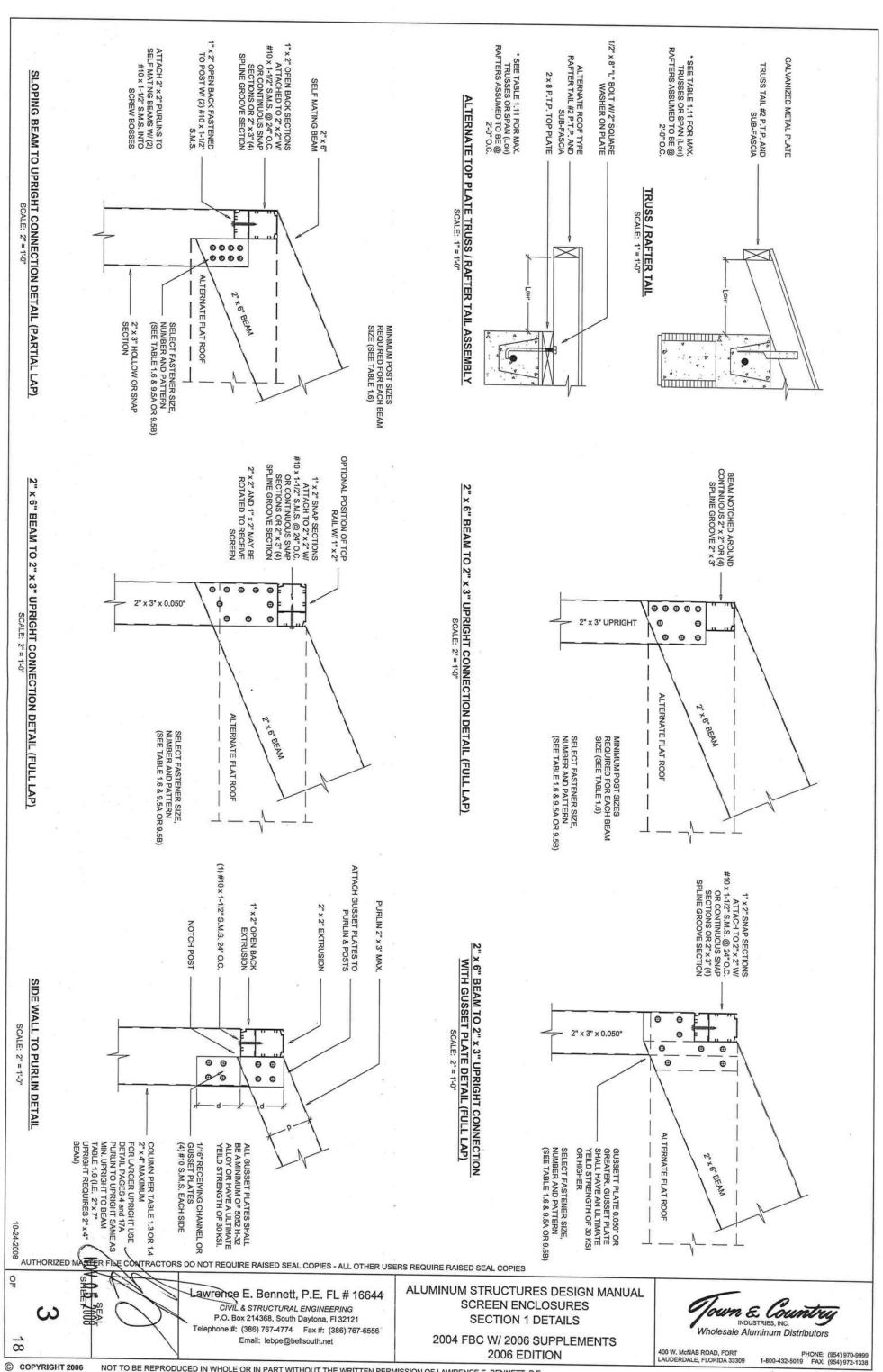
SCREEN ENCLOSURES **SECTION 1 DETAILS**

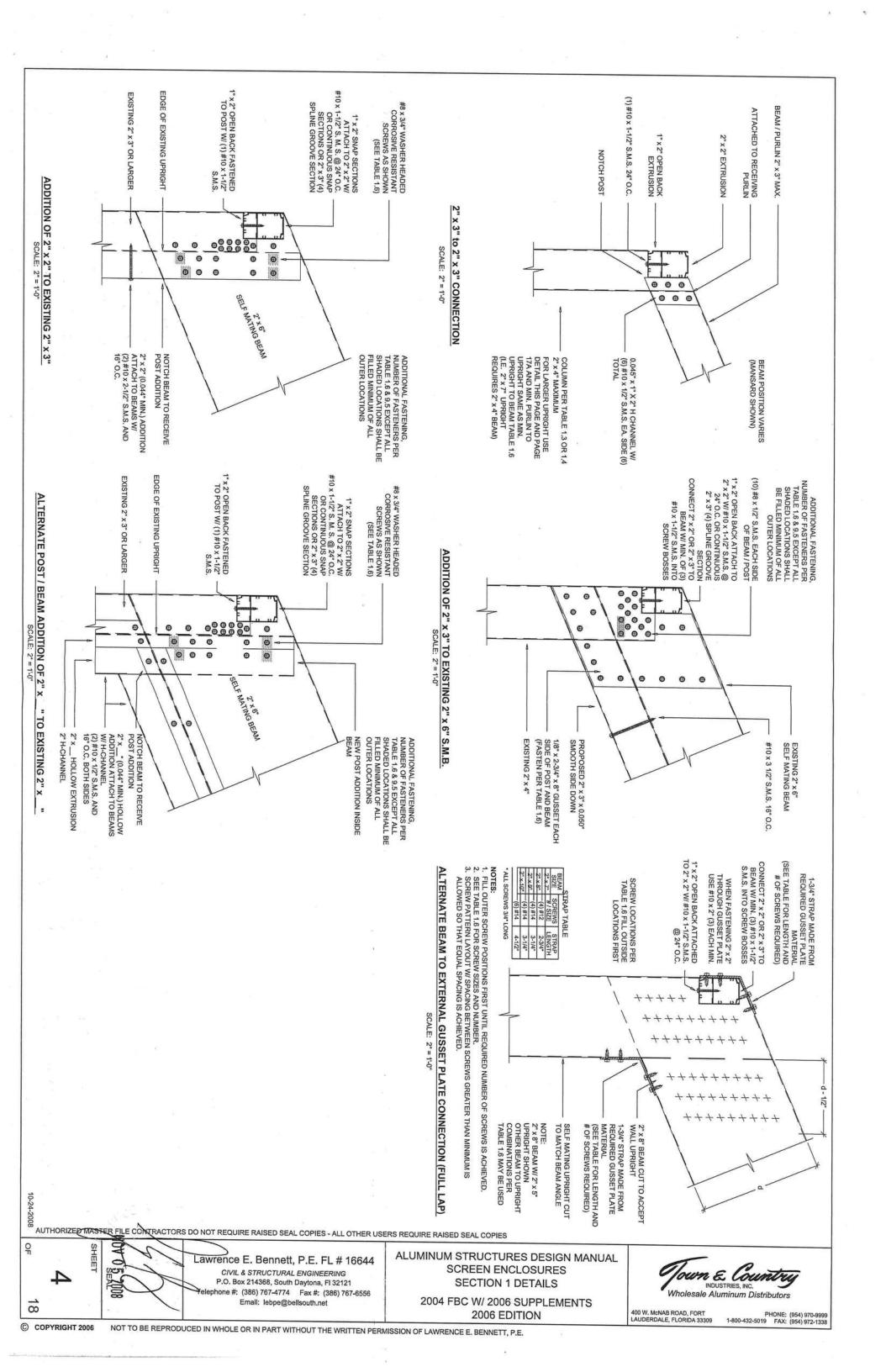
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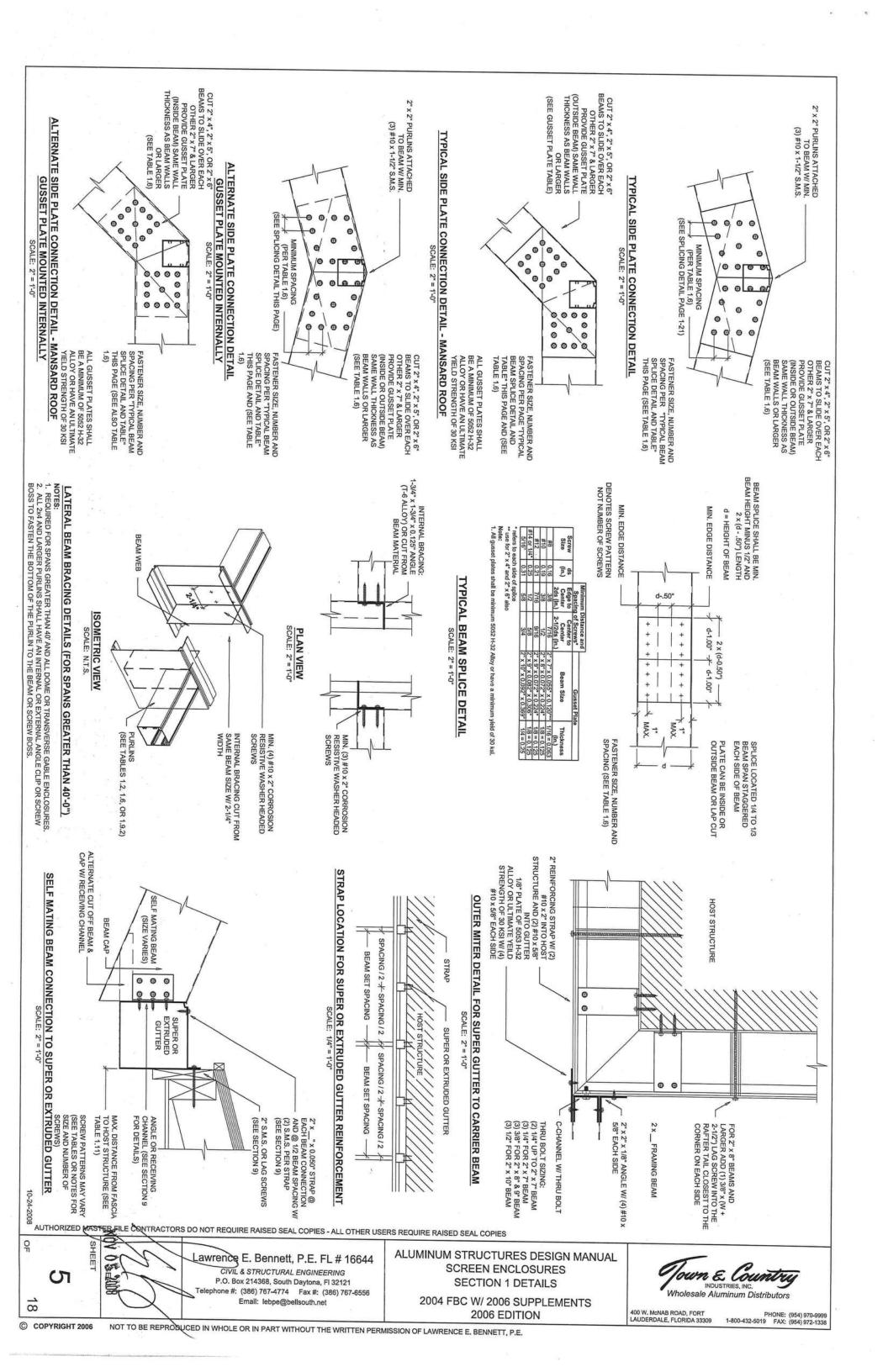
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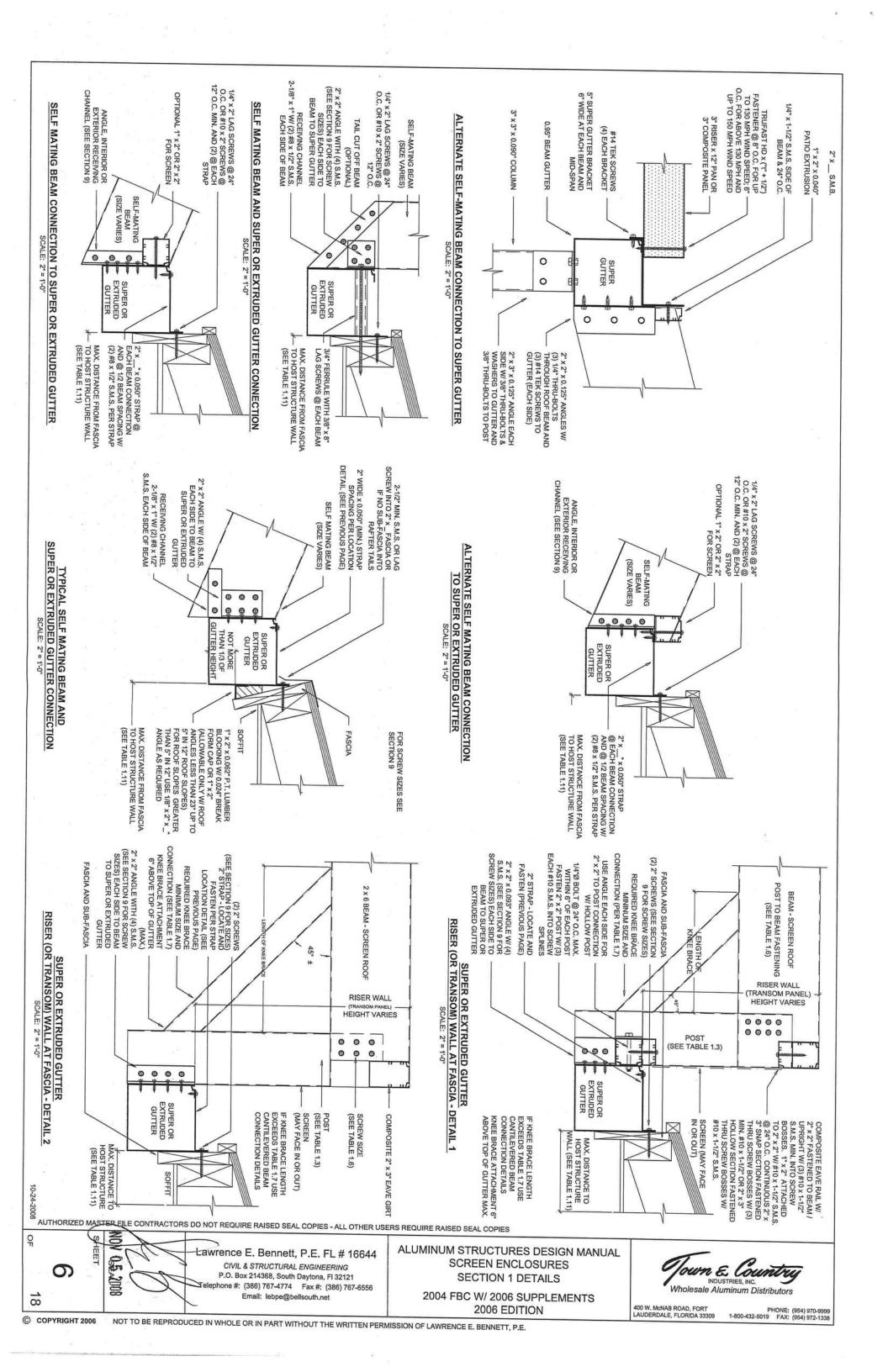
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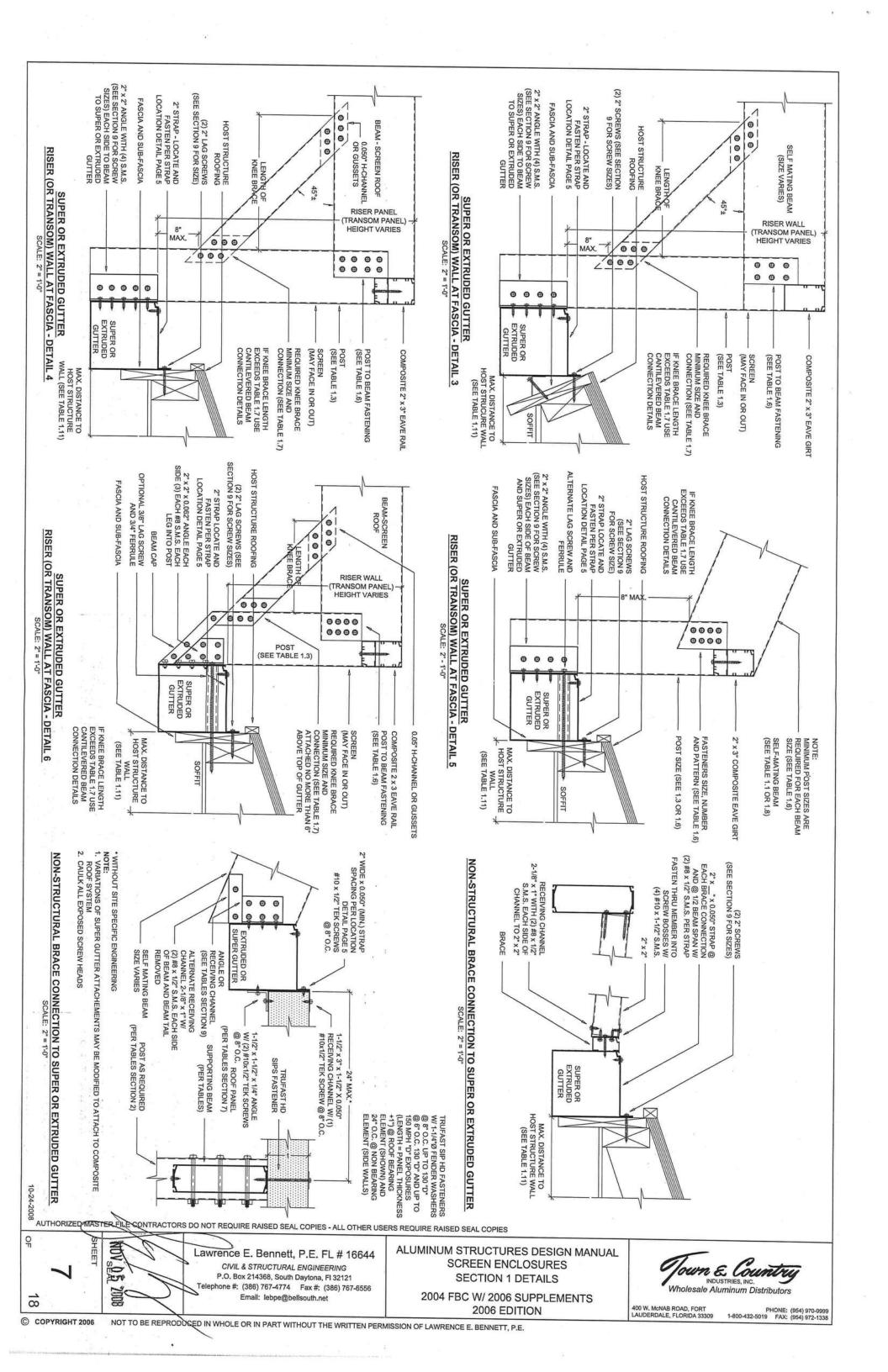


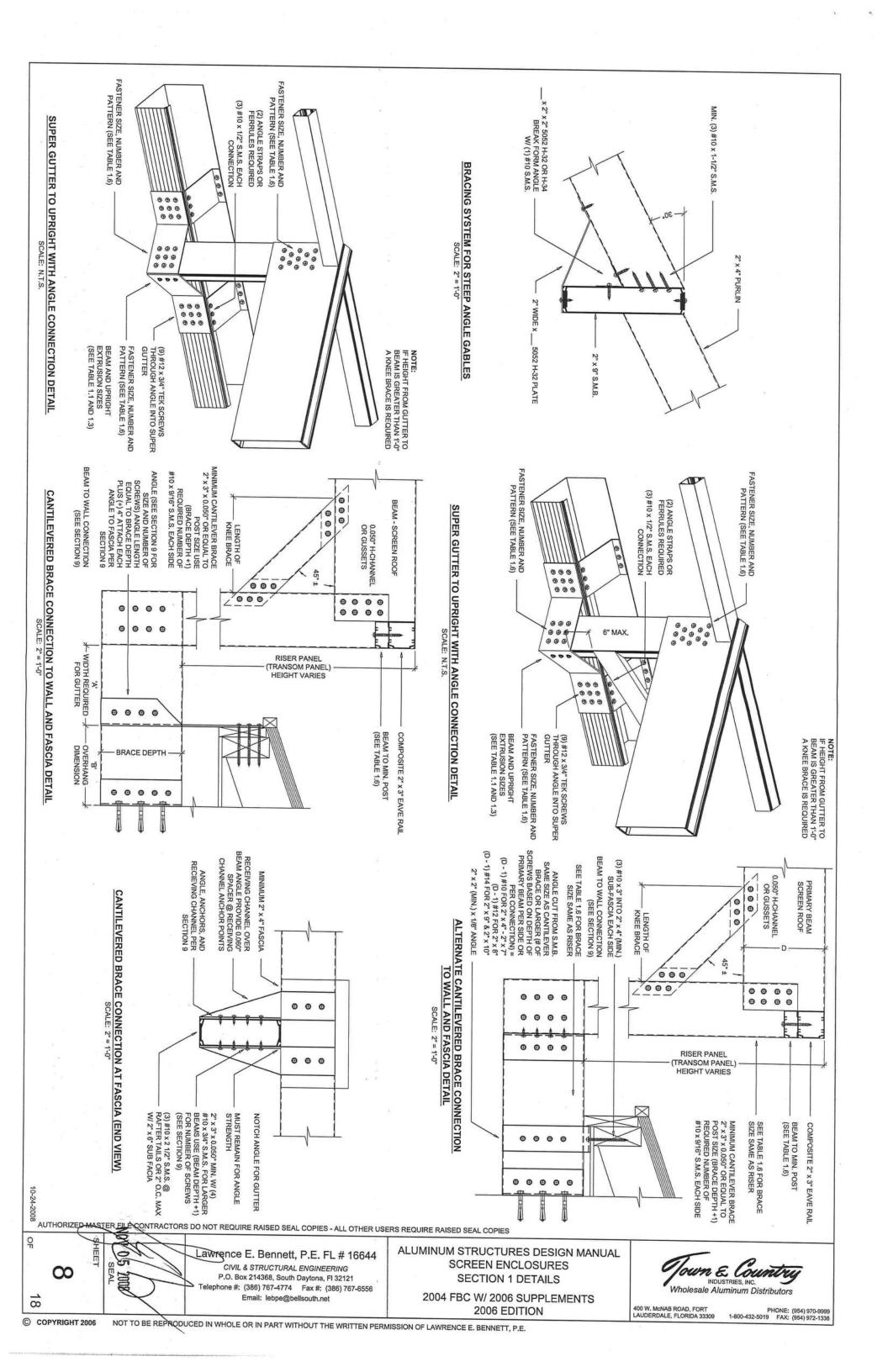


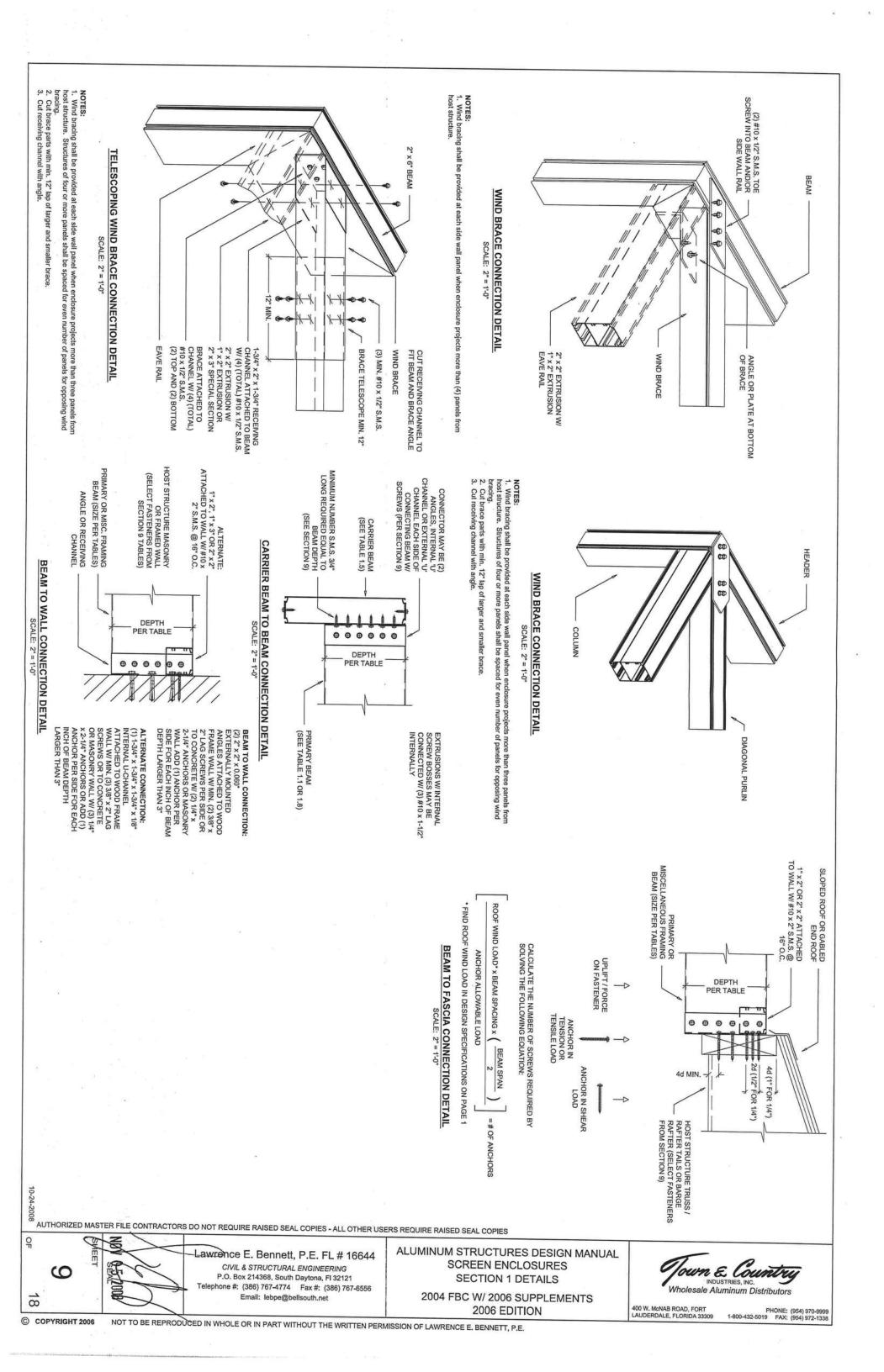


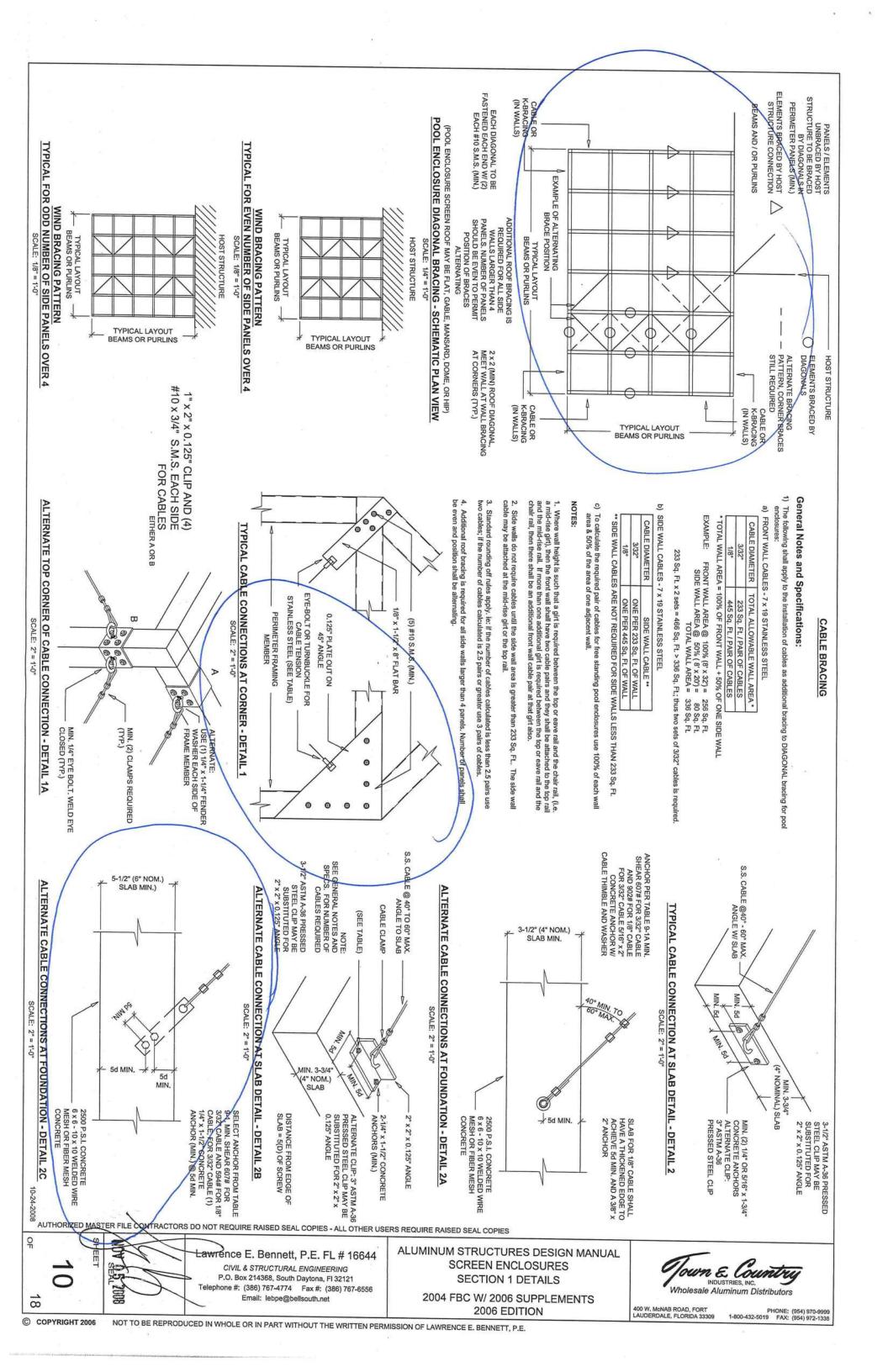


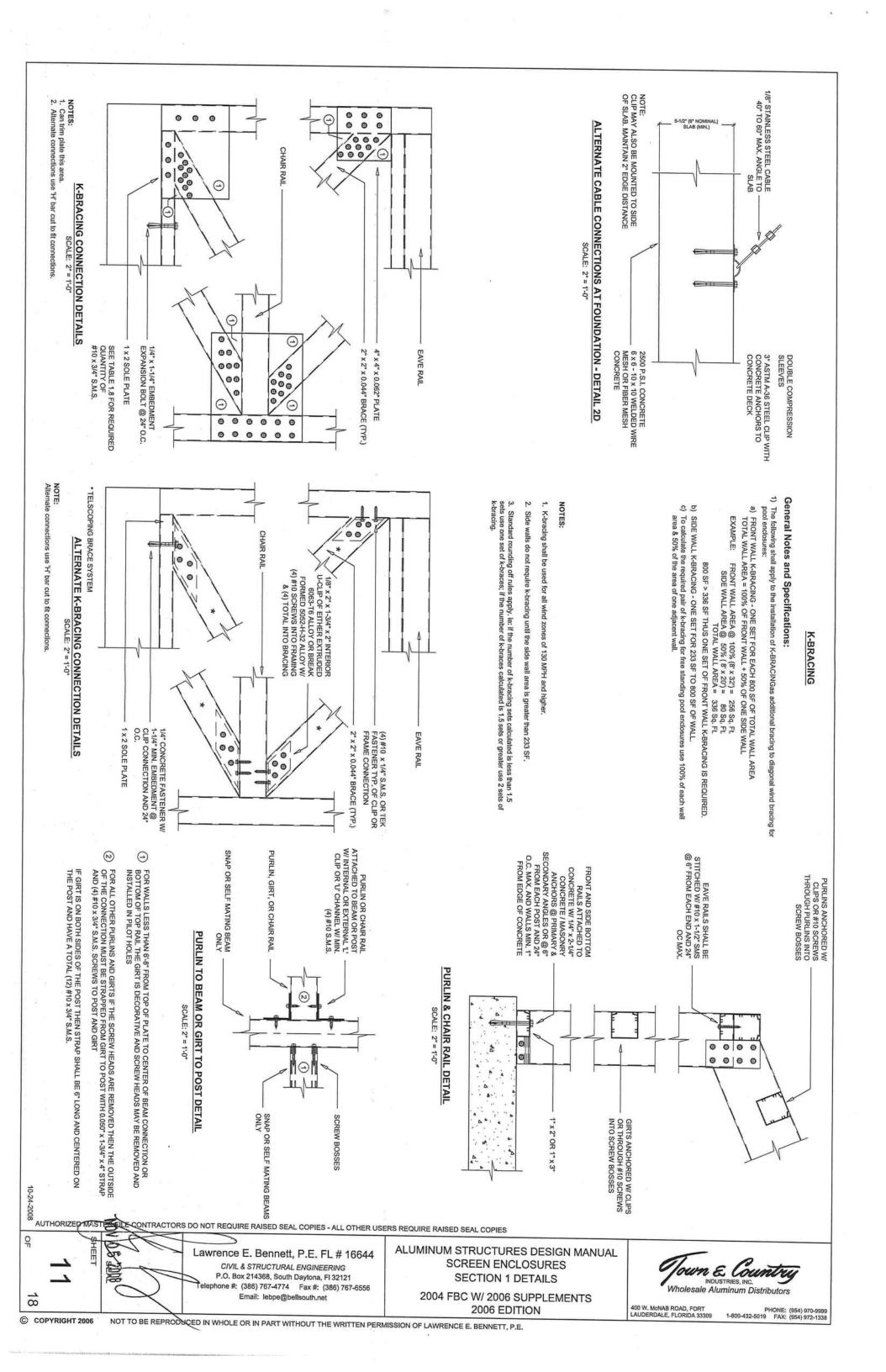


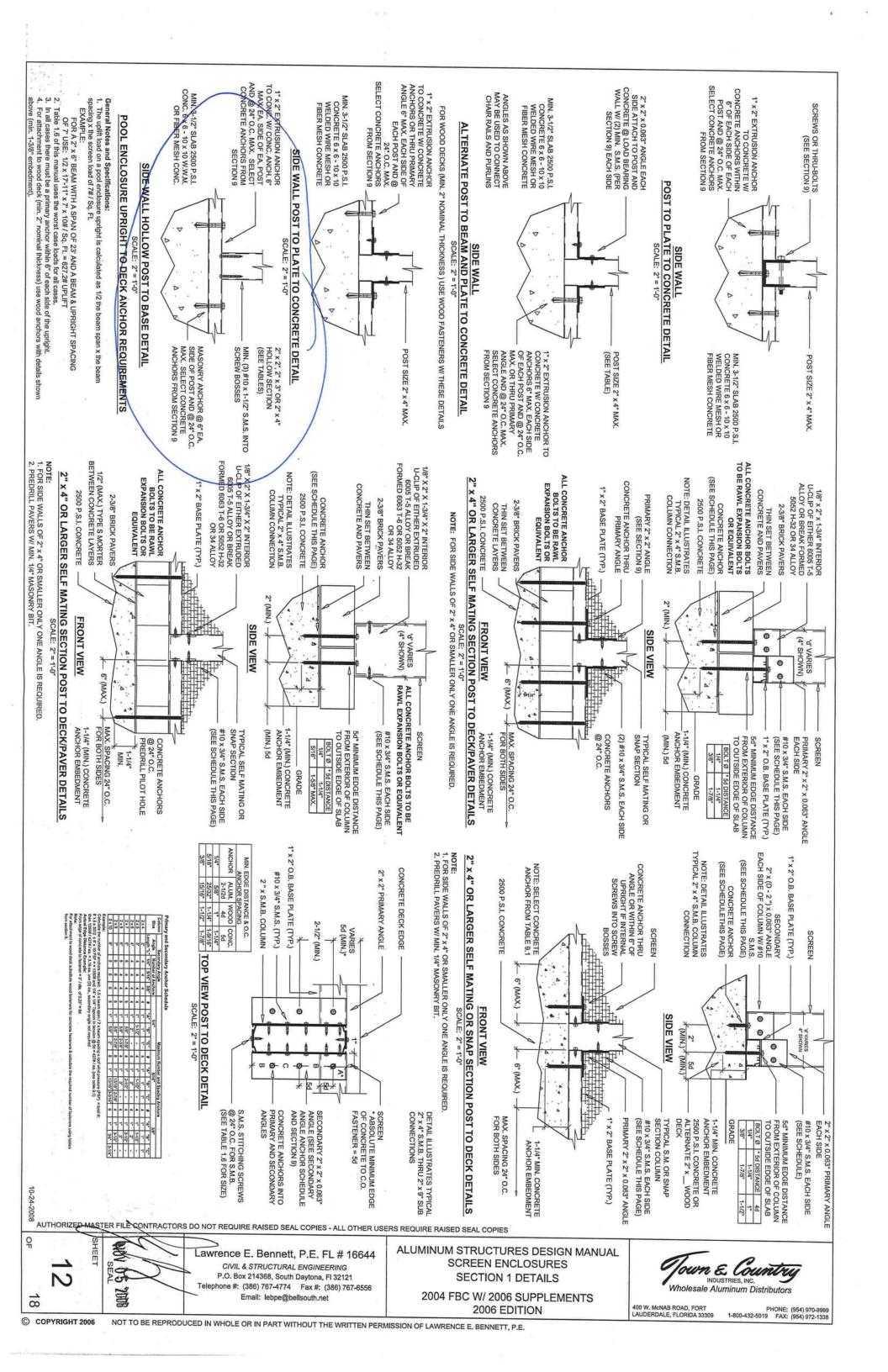


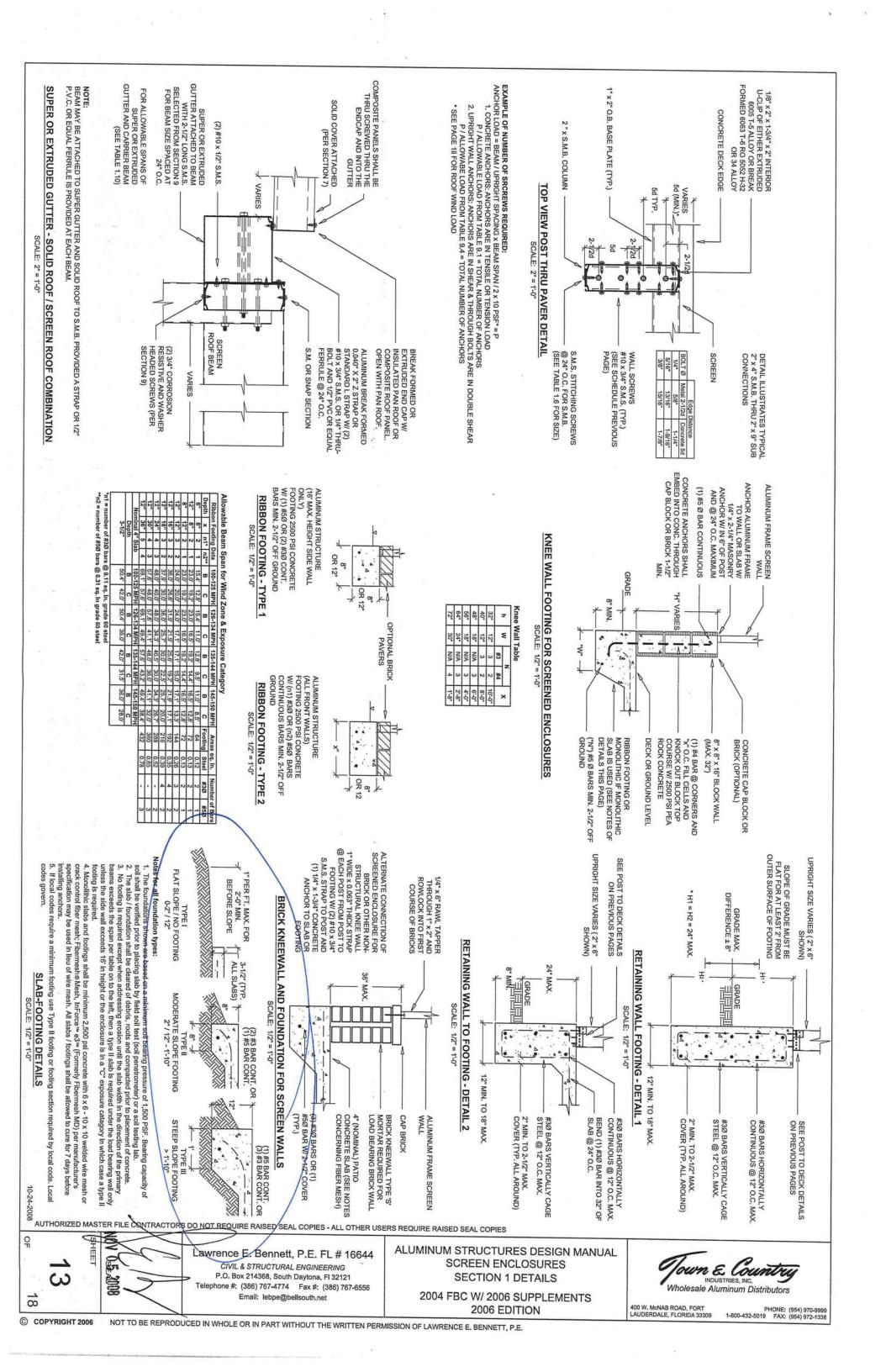




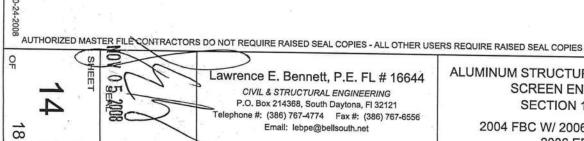








SPLICE POINT NOTES: 6. If door location is adjacent to upright a $1^{\circ} \times 2^{\circ} \times 0.044^{\circ}$ may be fastened to upright with #12 x 1° S.M.S. at 12° on center and within 3° from end of upright. 5. Top hinge to be mounted between 10 inches and 20 inches from top of door. 4. Bottom hinge to be mounted between 10 inches and 20 inches from ground. 3. Each hinge to be attached to door with minimum three (3) #12 x 3/4" S.M.S.. 2. Each hinge to be attached to structure with minimum four (4) #12 x 3/4" S.M.S.. 1. Door to be attached to structure with minimum two (2) hinges. 2 x 2 EXTRUSION -SPLICE POINT TYPICAL SCREEN DOOR CONNECTION DETAIL SCALE: N.T.S. SPLICE POINTS FOR FLAT OR DOME ROOF SCALE: N.T.S. SPLICE POINTS FOR FLAT OR DOME ROOF SCALE: N.T.S. SPLICE POINTS FOR GABLE ROOF SCALE: N.T.S. L = TOTAL SPAN FROM TABLES L = TOTAL SPAN FROM TABLES 14 - HINGE LOCATION HINGE LOCATION 2 x 2 EXTRUSION DOOR HINGE LOCATION SPLICE POINT SPLICE AT RIGHT ANGLE TO BEAM SPLICE POINT OR SUPER GUTTER

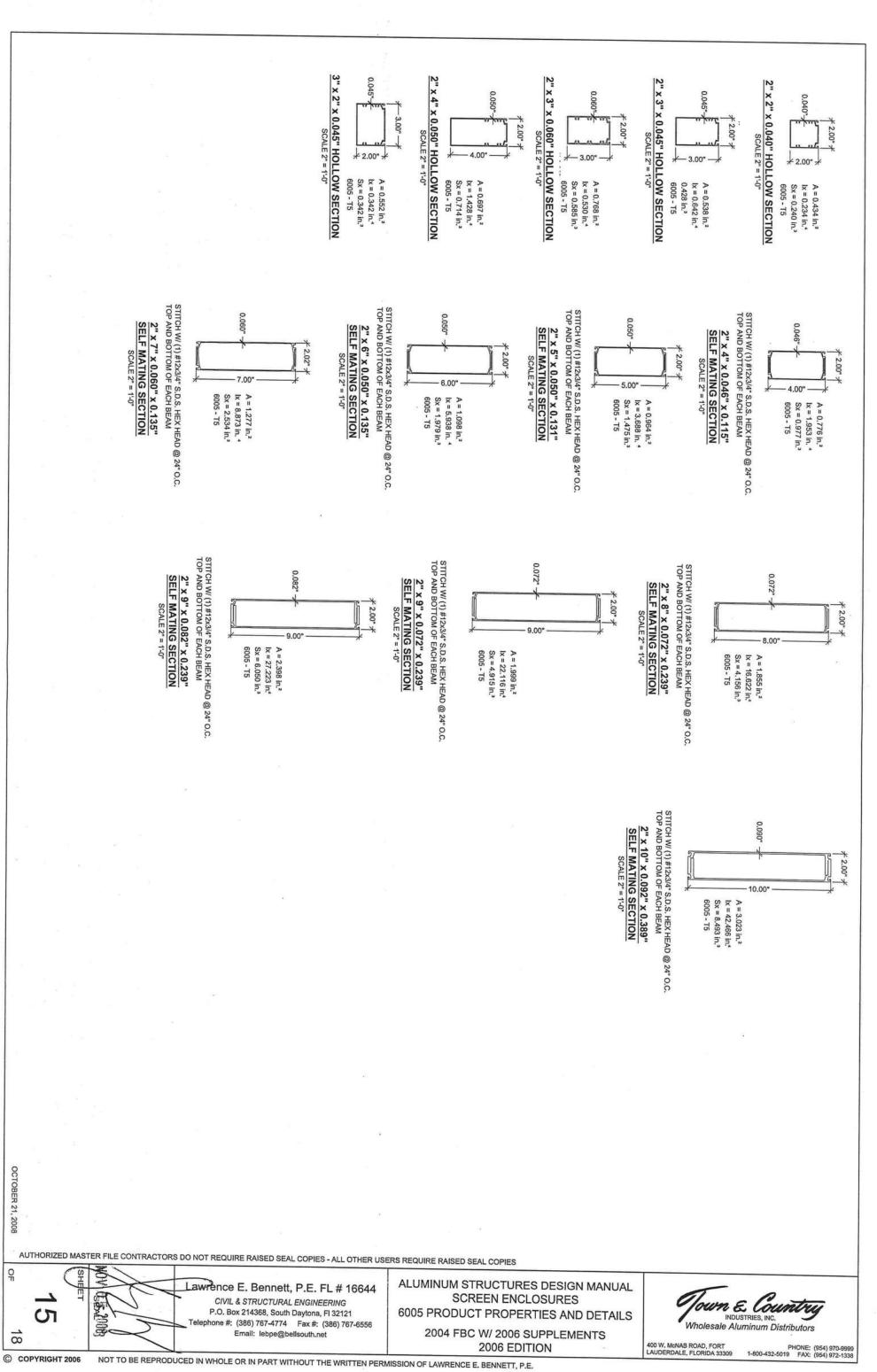


CIVIL & STRUCTURAL ENGINEERING P.O. Box 214368, South Daytona, FI 32121 Telephone #: (386) 767-4774 Fax #: (386) 767-6556 ALUMINUM STRUCTURES DESIGN MANUAL SCREEN ENCLOSURES **SECTION 1 DETAILS**

2004 FBC W/ 2006 SUPPLEMENTS 2006 EDITION



400 W. McNAB ROAD, FORT LAUDERDALE, FLORIDA 33309



Thicknesses shown are "nominal" industry standard tolerances. No wall thickness shall be less than 0.040*.

Span is measured from center of beam and upright connection to fascia or wall connection.

Tables are based on a maximum wall height to if 16' including a 4' max. mansard or gable. Other conditions may offer either spans w/ enclosure site specific engineering.

Spans may be interpolated.

Spans may be interpolated.

2* x 4* 8.2* x 5* Hollow Girts shall be connected w/ an internal or external 1-1/2* x 1-1/2* x 0.044* angle. Table 1.2 120 Town & Country Industries, Inc.
6005 TCI Allowable Spans for Secondary Screen Roof Frame Members
Aluminum Alloy 6005 T-5
For Wind Zones up to 120 McH., 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 Thicknesses shown are "nominal" industry standard tolerances. No wall thickness shall be less than 0.040".

 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 65. Structures larger than these limits shall have site specific engineering.

 Span is measured from center of beam and upright connection to fascia or wall connection.

 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.

 Tables are based on a maximum wall height of 16' including a 4' max. mansard or gable. Other conditions may offer better spans we enclosure site specific engineering.

 Spans we enclosure site specific engineering.

 To convert spans to "C" and "D" exposure categories see exposure multipliers and example on page 1-til. **Hollow Sections** | Tributary Load Width W = Purlin Spacing | 6-.9" | 6-.9" | 4-.6" | 5-.9" | 5-.9" | 6-.9" | 6-.9" | 6-.9" | 6-.9" | 6-.9" | 6-.9" | 6-.9" | 6-.9" | 6-.9" | 6-.9" | 6-.9" | 6-.9" | 6-.9" | 6-.9" | 6-.9" | 6-.9" | 6-.9" | 6-.9" | 6-.9" | 6-.9" | 6-.9" | 6-.9" | 6-.9" | 6-.9" | 6-.9" | 6-.9" | 6-.9" | 6-.9" | 6-.9" | 6-.9" | 6-.9" | 6-.9" | 6-.9" | 6-.9" | 6-.9" | 6-.9" | 6-.9" | 6-.9" | 6-.9" | 6-.9" | 6-.9" | 6-.9" | 6-.9" | 6-.9" | 6-.9" | 6-.9" | 6-.9" | 6-.9" | 6-.9" | 6-.9" | 6-.9" | 6-.9" | 6-.9" | 6-.9" | 6-.9" | 6-.9" | 6-.9" | 6-.9" | 6-.9" | 6-.9" | 6-.9" | 6-.9" | 6-.9" | 6-.9" | 6-.9" | 6-.9" | 6-.9" | 6-.9" | 6-.9" | 6-.9" | 6-.9" | 6-.9" | 6-.9" | 6-.9" | 6-.9" | 6-.9" | 6-.9" | 6-.9" | 6-.9" | 6-.9" | 6-.9" | 6-.9" | 6-.9" | 6-.9" | 6-.9" | 6-.9" | 6-.9" | 6-.9" | 6-.9" | 6-.9" | 6-.9" | 6-.9" | 6-.9" | 6-.9" | 6-.9" | 6-.9" | 6-.9" | 6-.9" | 6-.9" | 6-.9" | 6-.9" | 6-.9" | 6-.9" | 6-.9" | 6-.9" | 6-.9" | 6-.9" | 6-.9" | 6-.9" | 6-.9" | 6-.9" | 6-.9" | 6-.9" | 6-.9" | 6-.9" | 6-.9" | 6-.9" | 6-.9" | 6-.9" | 6-.9" | 6-.9" | 6-.9" | 6-.9" | 6-.9" | 6-.9" | 6-.9" | 6-.9" | 6-.9" | 6-.9" | 6-.9" | 6-.9" | 6-.9" | 6-.9" | 6-.9" | 6-.9" | 6-.9" | 6-.9" | 6-.9" | 6-.9" | 6-.9" | 6-.9" | 6-.9" | 6-.9" | 6-.9" | 6-.9" | 6-.9" | 6-.9" | 6-.9" | 6-.9" | 6-.9" | 6-.9" | 6-.9" | 6-.9" | 6-.9" | 6-.9" | 6-.9" | 6-.9" | 6-.9" | 6-.9" | 6-.9" | 6-.9" | 6-.9" | 6-.9" | 6-.9" | 6-.9" | 6-.9" | 6-.9" | 6-.9" | 6-.9" | 6-.9" | 6-.9" | 6-.9" | 6-.9" | 6-.9" | 6-.9" | 6-.9" | 6-.9" | 6-.9" | 6-.9" | 6-.9" | 6-.9" | 6-.9" | 6-.9" | 6-.9" | 6-.9" | 6-.9" | 6-.9" | 6-.9" | 6-.9" | 6-.9" | 6-.9" | 6-.9" | 6-.9" | 6-.9" | 6-.9" | 6-.9" | 6-.9" | 6-.9" | 6-.9" | 6-.9" | 6-.9" | 6-.9" | 6-.9" | 6-.9" | 6-.9" | 6-.9" | 6-.9" | 6-.9" | 6-.9" | 6-.9" | 6-.9" | 6-.9" | 6-.9" | 6-.9" | 6-.9" | 6-.9" | 6-.9" | 6-.9" | 6-.9" | 6-.9" | 6-.9" | 6-.9" | 6-.9" | 6-.9" | 6-.9" | 6-.9" | 6-.9" | 6-.9" | 6-.9" | 6-.9" | 6-.9" | 6-.9" | 6-.9" | 6-.9" | 6-.9" | 6-.9" | 6-.9" | 6-.9" | 6-.9" | 6-.9" | 6-.9" | 6-.9" | 6-.9" | 6-.9" | 6-.9" | 6-Town & Country Industries, Inc.
Allowable Spans for Primary Screen Roof Frame Members
Aluminum Alloy 6005 T-5
120 M.P.H., Exposure "B" and Latitudes Below 30"-30"-00" North (Jacksor F, a Point Load of 300 #/SF over (1) linear ft. is also considered and "D" exposure categories see exposure multipliers and example on page 1-li. 30°-30'-00" North (Jacksonville, FL) Table 1.5 120

Town & Country Industries, Inc.
6005 TCI
Allowable Spans for Miscellaneous Framing Beams as Supporting Screen Roof Frame Members
(110 & 120 MPH)
Aluminum Alloy 6005 T-5
for Areas with Wind Loads up to 110 & 120 M.P.H., Exposure "B" and Latitudes Below 30*-30-40" North (Jacksonville, FL)
Uniform Load = 4 #/SF, a Point Load of 300 #/SF over (1) linear ft. is also considered Table 1.4 120 Town & Country Industries, Inc.
6005 TCI Allowable Post! Girt / Chalir Rail Spans, Header Spans & Upright Heights
for Secondary Screen Wall Frame Members
Aluminum Alloy 6005 T-5
For 3 second wind gust at a velocity of 120 MPH, Exposure "B" or an applied load of 15 # / sq. ft.
A. Sections As Horizontals Fastened To Posts With Clips . Thicknesses shown are "nominal" industry standard tolerances. No wall thickness shall be less than 0.040". Listing screen panel width 'W select girt lengths.
Site specific englineering required for pool enclosures over 30' in mean roof height.
Span/height is to be measured from center of beam and upright connection to fascia or wall connection.
Chair rails of 2" x 2" x 0.044" min, and set @ 35" in height are designed to be residential gardralls provided they re attached with min, (3) #10 x 1-112" s.m.s. into the screw bosses and do not exceed 8-0" o.c.
Girt spacing shall not exceed 6-9:
Max. beam size for 2" x 5" is 2" x 7" x 0.055" x 0.120"
2" x 4" & 2" x 5" hollow girts shall be connected will an internal or external 1-1/2" x 1-1/2" x 0.044" angle.
Spansheights may be interpolated. **Hollow Sections Hollow Sections**

(2) 2" x 8" x 0.072" x 0.112" 38'-3' U 31 (2) 2" x 9" x 0.072" x 0.112" 42'-1' U 37 (2) 2" x 9" x 0.082" x 0.153" 45'-1' U 4 (2) 2" x 10" x 0.082" x 0.187" 52'-4' U 4 Double Self-Mating Beams (2) 2" x 8" x 0.072" x 0.112" 2" x 6" x 0.050" x 0.060" 2" x 7" x 0.060" x 0.060" 2" x 5" x 0.050" x 0.048" 2" x 4" x 0.046" x 0.050" 14-11 U 13-4 U 12-3 U 11-3 U 10-10 U 10-1 d 34:3° U 34:5° U 2
d 37:6° U 34:7° U 3
d 40:4° U 37:1° U 3 18'-0" 22'-0" 26'-0" 30'-0
Allowable Span 'L' / Point Load (P 32"-4" U 30-7" U 32'-10" U 32'-10" U 38'-1" 10-5" U
13-3" U
15-2" U
17-7" U
17-7" U
22-1" U
24-4" U
26-0" U
30-2" U on the condition of the | Use 27:-11" 25'-5" 1:-0" 38:-0" 42:-0 form Load (U), bending (1:0) 42:-9" 1 23:-9" 1 18'-7" 14'-6" 12'-6" 8'-7" U), bending (b), deflectlo
b (8.2° U 7-10° (b)
1° U 10-5° D 9-11° (b)
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15-1 23'-0" 25'-4" 46'-0" 50'-0" 54'-0"
effection (d)
3'-0" U 22'-5" U 21'-10" U
5'-4" U 24'-7" U 23'-11" U
5'-4" U 24'-7" U 23'-11" U U 21'-10" U 23'-11" U 25'-9" U 25'-9" U 29'-10"

It is recommended that the engineer be consulted on any carrier beam that spans more than 50' Span is measured from center of connection to fascia or wall connection.

Above spans do not include length of knee brace. Add horizontal distance from upright to center of brace to beam

1.14a 120 TCl Town & Country Industries, Inc.
Allowable Spans for 5" Super Gutter and Self Mating Beam Screened Enclosure One Side/Solid Roof Other Side
Aluminum Alloy 6063 T-6
for Areas in Wind Zones of 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 Ranner 10'-0" 12'-0"
Allowable Span 'L' IF
14'-3" Ub 114'-4" UE
16'-3" Ub 15'-9" Ut
20'-4" Ub 19'-9" Ut
21'-4" Ub 22'-8" Ut
23'-5" Ub 22'-8" Ut
27'-2" Ud 26'-8" Ut ," or Less and Latitudes Below 30"-30'-00" North #/SF

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1. If the solid panel is greater or less than 10°-0°, then the 1/2 the allowable screen roof by factor of 4-2 x 1/2 (the solid roof panel span difference between the actual and 10°-0°). The roof panel width is applied as a plus if the solid roof panel is larger than 10°-0° and minus it 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 unjoint sizes use Table 2.3

16. To convert spans to "C" and "D" exposure categories see exposure multipliers and examination of the spans o

Thicknesses shown are "nominal" industry standard tolerances. No wall thickness shall be less than 0.040". Using screen panel width 'W' select upright length 'H'.

Above heights do not include length of knee brace. Add vertical distance from upright to center of brace to beam mencition to the above spans for total beam spans.

Site specific engineering required for pool enclosures over 30' in mean roof height.

Height is to be measured from center of beam and upright connection to fascia or wall connection.

Chair rails of 2" x 2" x 0.044" min. and set @ 36" in height are designed to be residential guardrails provided they cattled with min. (3) #10 x 1-1/2" S.M.S. into the screw bosses and do not exceed 8"-0" in span.

Max. beam size for 2" x 5" is 2" x 7" x 0.055" x 0.120"

Spans may be interpolated.

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

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

ALUMINUM STRUCTURES DESIGN MANUAL SCREEN ENCLOSURES 120 MPH ROOF & WALL MEMBER SPANS 2004 FBC W/ 2006 SUPPLEMENTS

2x12

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2006 EDITION

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2x12

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 o page 1ii.

For overhangs with spans that exceed those listed above site specific engineering is required.
 If truss bottom cord extends more than 24* over the wall site specific engineering is required.
 To convert from exposure 'B' spans to 'C' or 'D' exposure spans see multipliers and example on page 1li.

Table 1.11 ximum Overhang for Rafter / Truss Tails en Connected to Screen Roof 2×10

Table 1.9.1 Town & Country Industries, Inc.

TCI 6005 Allowable Spans for Primary Screen Roof Frame Members
Aluminum Alloy 6005 T.5.
for Areas in Wind Zones up to 130 M.P.H., Exposure "B" and Latitudes North 30°-30°-00" North (Jacksonville, FL)

Uniform Load = 15 #/SF, a Point Load of 300 #/SF over (1) linear ft. is also considered

Tribulary Load Width "W = Beam Spacing 9-0" | 8-0" | 9-0" | 9-0" | 9-0" | 9-0" | 9-0" | 9-0" | 9-0" | 9-0" | 9-0" | 9-0" | 9-0" | 9-0" | 9-0" | 9-0" | 9-0" | 9-0" | 9-0" | 9-0" | 9-0" | 9-0" | 9-0" | 9-0" | 9-0" | 9-0" | 9-0" | 9-0" | 9-0" | 9-0" | 9-0" | 9-0" | 9-0" | 9-0" | 9-0" | 9-0" | 9-0" | 9-0" | 9-0" | 9-0" | 9-0" | 9-0" | 9-0" | 9-0" | 9-0" | 9-0" | 9-0" | 9-0" | 9-0" | 9-0" | 9-0" | 9-0" | 9-0" | 9-0" | 9-0" | 9-0" | 9-0" | 9-0" | 9-0" | 9-0" | 9-0" | 9-0" | 9-0" | 9-0" | 9-0" | 9-0" | 9-0" | 9-0" | 9-0" | 9-0" | 9-0" | 9-0" | 9-0" | 9-0" | 9-0" | 9-0" | 9-0" | 9-0" | 9-0" | 9-0" | 9-0" | 9-0" | 9-0" | 9-0" | 9-0" | 9-0" | 9-0" | 9-0" | 9-0" | 9-0" | 9-0" | 9-0" | 9-0" | 9-0" | 9-0" | 9-0" | 9-0" | 9-0" | 9-0" | 9-0" | 9-0" | 9-0" | 9-0" | 9-0" | 9-0" | 9-0" | 9-0" | 9-0" | 9-0" | 9-0" | 9-0" | 9-0" | 9-0" | 9-0" | 9-0" | 9-0" | 9-0" | 9-0" | 9-0" | 9-0" | 9-0" | 9-0" | 9-0" | 9-0" | 9-0" | 9-0" | 9-0" | 9-0" | 9-0" | 9-0" | 9-0" | 9-0" | 9-0" | 9-0" | 9-0" | 9-0" | 9-0" | 9-0" | 9-0" | 9-0" | 9-0" | 9-0" | 9-0" | 9-0" | 9-0" | 9-0" | 9-0" | 9-0" | 9-0" | 9-0" | 9-0" | 9-0" | 9-0" | 9-0" | 9-0" | 9-0" | 9-0" | 9-0" | 9-0" | 9-0" | 9-0" | 9-0" | 9-0" | 9-0" | 9-0" | 9-0" | 9-0" | 9-0" | 9-0" | 9-0" | 9-0" | 9-0" | 9-0" | 9-0" | 9-0" | 9-0" | 9-0" | 9-0" | 9-0" | 9-0" | 9-0" | 9-0" | 9-0" | 9-0" | 9-0" | 9-0" | 9-0" | 9-0" | 9-0" | 9-0" | 9-0" | 9-0" | 9-0" | 9-0" | 9-0" | 9-0" | 9-0" | 9-0" | 9-0" | 9-0" | 9-0" | 9-0" | 9-0" | 9-0" | 9-0" | 9-0" | 9-0" | 9-0" | 9-0" | 9-0" | 9-0" | 9-0" | 9-0" | 9-0" | 9-0" | 9-0" | 9-0" | 9-0" | 9-0" | 9-0" | 9-0" | 9-0" | 9-0" | 9-0" | 9-0" | 9-0" | 9-0" | 9-0" | 9-0" | 9-0" | 9-0" | 9-0" | 9-0" | 9-0" | 9-0" | 9-0" | 9-0" | 9-0" | 9-0" |

The structures Uniformed using this section shall be limited to a maximum combined span and upright height of 50° and a saximum upright height of 16° includes under the three than the set limits shall have site specific engineering.

Span is measured from center of beam and upright connection to fascia or wall connection. Above spans do not include length of knee brace. Add horizontal distance from upright to center of brace to beam nonection to the above spans for total beam spans.

Tables are based on a maximum wall height of 16° including a 4° max. mansard or gable. Other conditions may offer better pans we enclosure site specific engineering.

Spans may be interpolated.

For exposure categories see exposure multipliers and example on page 1.

Table 1.9.2 6063 Town & Country Industries, Inc.

Allowable Spans for Secondary Screen Roof Frame Members

Allowable Spans for Secondary Screen Roof Frame Members

Aluminum Alloy 6063 T-6

for Areas in Wind Zones up to 130 M.P.H., Exp. "8" and Latitudes North of 30*-30*-00" North (Jacksonville, FL)

Uniform Load = 15 #/5F, a Point Load of 300 #/SF over (1) linear ft. is also considered

A. Sections Fastened To Beams With Clips

Tributary Load Width "W" = Purfin Spacing

| Sections Fastened Through Beam Webs Into Screw Bosses | Sections Fastened Through Beam Webs Into Screw Bosses | Sections Fastened Through Beam Webs Into Screw Bosses | Sections | Sections Fastened Through Beam Webs Into Screw Bosses | Sections Fastened Through Beam Webs Into Screw Bosses | Sections Fastened Through Beam Webs Into Screw Bosses | Sections Fastened Width W = Purlin Spacing | Section (d) |

Thicknesses shown are "nominal" industry standard tolerances. No wall thickness shall be less than 0.040". The structures Uniformed using this section shall be limited to a maximum continued span and upright height of 50" and a aximum upright height of 16". Structures larger than these limits shall have site specific engineering.

Span is measured from center of beam and upright connection to fascia or wall connection.

Above spans do not include length of knee brace. Add horizontal distance from upright to center of brace to beam needton to the above spans for total beam spans.

Tables are based on a maximum wall height of 16" including a 4" max. mansard or gable. Other conditions may offer better answer was the increase.

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ALUMINUM STRUCTURES DESIGN MANUAL SCREEN ENCLOSURES FRAME MEMBER SPANS - SUBJECT TO SNOW

2004 FBC W/ 2006 SUPPLEMENTS 2006 EDITION

Jown & Country

INDUSTRIES, INC.

Wholesale Aluminum Distributors

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Note:

1. Connection of 2" x 6" to 2" x 4" shall use a full lap out or 1/16" gusset plate.

2. For beam spike connections the number of screws shown is the total for each spike with 1/2 the screws on each side of the out.

3. The number of screws is based on the maximum allowable moment of the beam.

4. The number stown is the total use 1/2 per side.

5. Hollow spike 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 spike with 1/2 the screws on each side of the out.

7. The side wall upright skre and upright size as a beam and purifin size is minimum gift 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.) 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". 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 f or back wall K-bracing. Table 1.8 Brace Length* Extrusion Anchoring System

0'-2'-0' 2'-x 2. x 0.044* 2" H-Channel Wift (3) #10 x 112" each leg of channel

To 3'-0' 2' x 3" x 0.045" 2" H-Channel Wift (3) #10 x 112" each leg of channel

Up to 5'-0' 2' x 4" x 0.044" x 0.100" 2" H-Channel Wift (4) #10 x 112" each leg of channel

Up to 5'-0' 2' x 4" x 0.044" x 0.100" 2" H-Channel Wift (4) #10 x 112" each leg of channel

Vince brace length shall be the horizontal and vertical length @ a 45" angle from the center of the bornection to the face of the beam or upright. *0.082" wall thickness, 0.310" flange thickness
"(1) Sitching screw at 16" O.C. max., at 12" O.C. for Eagle 6061 T-6 self mating beams.

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. K-Bracing Fastening Schedule Minimum Upright Sizes and Number of Screws for Connection of Roof Beams To Wall Uprights or Beam Splicing Corner Post Diagonals (K) Intermediate
@ Top per End Post @ Chair Rail Minimum Size Screen Enclosure Knee Braces and Anchoring Required Aluminum 6063 T-6

2x4

For overhangs with spans that exceed those listed above site specific engineering is required.
 If truss bottom cord extends more than 24" over the wall site specific engineering is required.
 To convert from exposure "B" spans to "C" or "D" exposure spans see multipliers and example on page til.

For a pool inclosure with 30' max, beam span, in a 123 MPH wind zone, "B" exposure. For 2 x 6 rafler / 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.

Table 1.11 Maximum Overhang for Rafter / Truss Tails when Connected to Screen Roof 2x8

2x8 2x12 2x12 2x12

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ALUMINUM STRUCTURES DESIGN MANUAL SCREEN ENCLOSURES **SECTION 1 TABLES**

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18

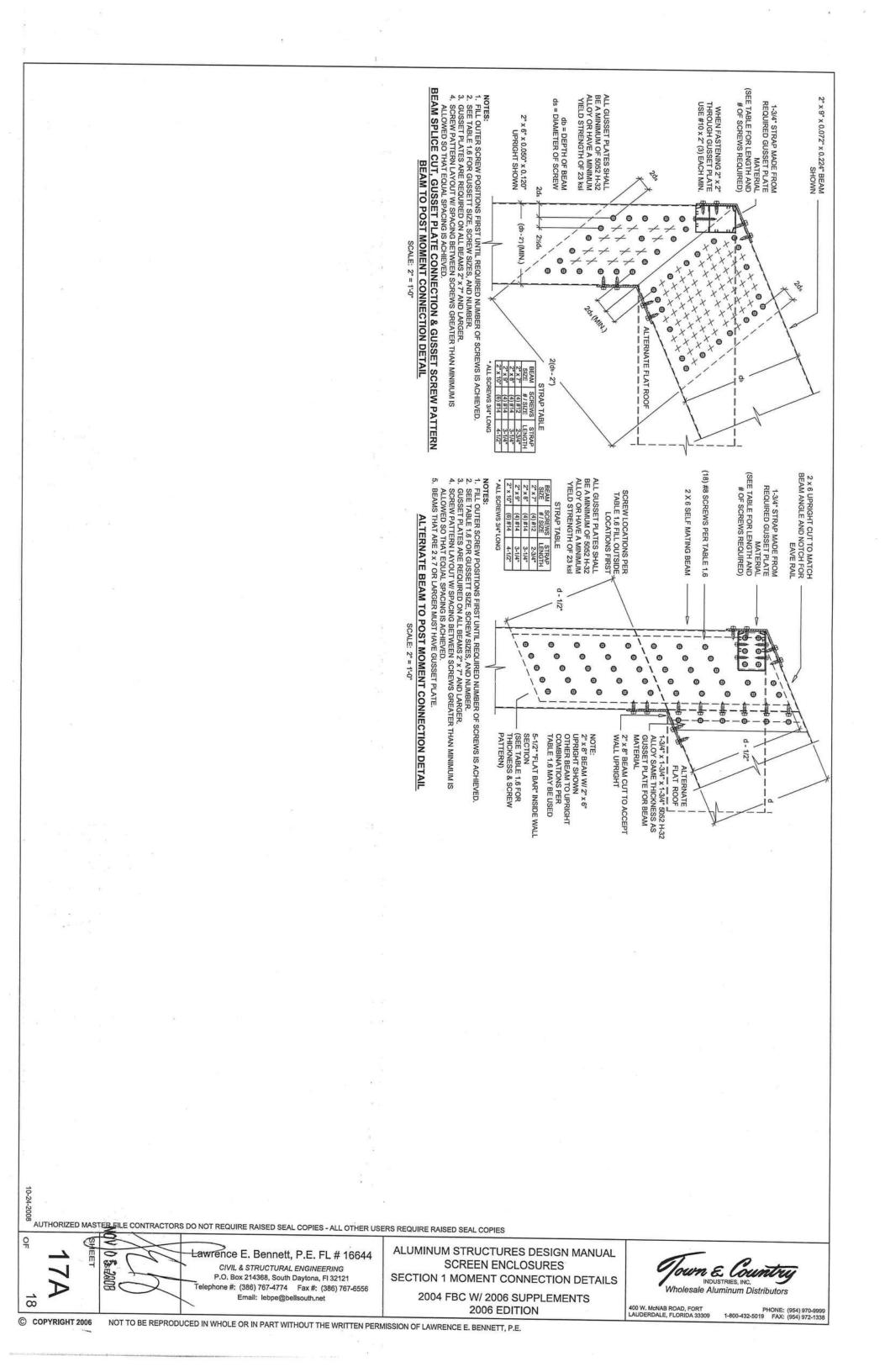


Table 1.1M 120 6005 TCI Table 1.1M 120 Town & Country Industries, Inc.

Moment Connection
Allowable Spans for Primary Screen Roof Frame Members
Aluminum Alloy 6005 T-5
For Areas in Wind Zones up to 120 M.P.H, Exposure "B" and Latitudes Below 30°-30°-00" North (Jacksonville, FL)

Inform Load = 4 #ISF, a Point Load of 300 #ISF over (1) linear ft, is also considered

 Jint Load of 300 #/SF over (1) linear ft. Is also considered

 Tributary Load Wildth W = Beam Spacing

 3*-0**
 4*-0**
 5*-9**
 6*-0**
 F-0**
 8*-9**
 9*-0**

 Allowable Span "L' / Point Load (P) or Uniform Load (U), bending (b), deflection (d)
 5-7**
 Pb
 5*-7**
 Pb
 <td

Thicknesses shown are "nominal" industry standard tolerances. No wall thickness shall be less than 0.040".
 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 15' structures larger than these limits shall have site specific engineering.
 Span is measured from center of beam and upright connection to fascia or wall connection.
 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.
 Tables are based on a maximum wall height of 16' including a 4' max. mansard or gable. Other conditions may offer better spans w enclosure site specific engineering.
 Spans may be interpolated.
 Spans may be interpolated.
 To convert spans to "C" and "D" exposure categories see exposure multipliers and example on page 1.

Self Mating Sections

Thicknesses shown are "nominal" industry standard tolerances. No wall thickness shall be less than 0.040".
 Lising screen panel width W' select upright length 'H'.
 Above sparse do not include length of knee brace. Add vertical distance from upright to center of brace to beam connection to the above spars for total beam spars.
 Site specific engineeting required for pool enclosures over 30" in mean roof height.
 Span is to be measured from center of beam and upright connection to fascia or wall connection.
 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 1-112" S.M.S. into the screw bosses and do not exceed 8"-0" in span.
 Maximum beam size for 7" x 5" is a 2" x 7" x 0.055" x 0.120"
 Spans may be interpolated. "D" exposure categories see exposure multipliers and example on page 1.

Table 1.3M 120

Town & Country Industries, Inc.
6005 TCI
Moment Connection
Allowable Post / Upright Heights for Primary Screen Wall Frame Members
Aluminum Alloy 6005 T-5
For 3 second wind gust at a velocity of 120 MPH, Exposure "B" or an applied load of 15 #/sq. ft.

Hollow Sections

					Tributar	5	Tributary Load Width 'W' = Beam Spacing	×	Beam 9	Spaci	DO	1		1
Hollow Sections	3'-0"		4'-0"		5'-0"	1	6'-0"	1	7'-0"	1	8'-0"	1	9'-0"	1
	Allo	wabi	e Span '	-	Allowable Span 'L' / Point Load (P)	ad (P) or Unit	orm	Load (U)	ben	ding (b)	defi	or Uniform Load (U), bending (b), deflection (d)	٦
2" x 2" x 0.040	6'-7"	Pb	6'-7"	Pb	6'-3"	G.	5'-8"	В	5'-3"	8	4'-11"	GP.	4'-8"	B
2" x 3" x 0.045"	7"-9"	Pb	7:-7"	등	6'-10"	당	6'-3"	8	5-9*	8	5-5	8	5-1"	6
2" x 3" x 0.060"	10'-9"	당	9'4"	G _B	8'-4"	6	7:-7"	S	7:4"	8	6'-7"	8	6-3	GD I
2" x 4" x 0.050"	10'-11"	占	9-5	S	8'-5"	Ъ	7'-8"	8	7:-2"	등	6'-8"	8	6-3	5
3" x 2" x 0.045"	111-11"	UЬ	10'-4"	ПP	9'-3"	dЫ	8:-5"	Ь	7'-10"	占	7.4	8	6'-11"	당
					Tributar	Los	Tributary Load Width 'W' = Beam Spacing		Beam S	paci	Bu			
Self Mating Sections	3'-0"	ľ	4'-0"	Ľ	5'-0"		6'-0"		7'-0"		8'-0"		9'-0"	
	Allo	wable	Span '		oint Lo	ad (P	or Unif	orm I	oad (U)	ben	ding (b),	defle	Allowable Span 'L' / Point Load (P) or Uniform Load (U), bending (b), deflection (d)	
2" x 4" x 0.046" x 0.050"	14'-0"	ОЬ	12'-0"	ОЬ	10'-8"	du.	9-8"	ПP	8'-11"	등	8'-3"	В	7'-8"	В
2" x 5" x 0.050" x 0.048"	17"-3"	dЫ	14'-11"	dЫ	13'-3"	Q,	12'-0"		11:4.	G.	10'-3"	В	9'-7"	뮵
2" x 6" x 0.050" x 0.060"	19'-5"	du	16'-8"	В	14'-10"	G,	13'-6"	P	12-5"	В	11'-7"		10'-10"	B
2" x 7" x 0.060" x 0.060"	21'-0"	dЫ	18'-1"	GP.	16'-2"	GP.	14'-8"	UЬ	13'-6"	망	12'-7"		11'-10"	В
2" x 8" x 0.072" x 0.112"	31'-1"	PU	27'-2"	GP.	24'-3"	dЫ	22'-1"	B	20'-5"	dЫ	19'-1"	망	17'-11"	8
2" x 9" x 0.072" x 0.112"	33'-1"	an d	28'-7"	GP.	25'-6"	dЫ	23'-3"	ЧU	21'-5"	dЫ	20'-0"	9	18'-10"	9
2" x 9" x 0.082" x 0.153"	36'-7"	PO	33'-3"	Ы	29'-10"	ПP	27'-2"	ПP	25'-2"	В	23'-6"	Q)	22:-1.	G
2" x 10" x 0.092" x 0.187"	42'-6"	υd	38'-7"	PU	Ud 35'-10"	G	33'-2"	8	30'-8"	_	28'-7"		_	8
Notes: 1. Thicknesses shown are "nominal" industry standard tolerances. No wall thicknesses 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.	ninal" indu	stry s tion s	tandard hall be I	tolerz mitec hese	nces. No to a ma limits sha	wall dmur dha	thicknes n combin ve site sp	s sha ed sp ecific	Il be less pan and u	than upright	0.040". It height	of 50'	and a	[
 Above spans do not include length of knee brace. Add horizontal distance from upright to center of brace to beam 	length of	knee	brace.	Add I	orizonta	dista	ince from	upri	th to cer	iter o	f brace to	bea	3	
 Tables are based on a maximum wall height of 16' including a 4' max, mansard or gable. Other conditions may offer better 	mum wall	eam s	t of 16' i	nclud	ing a 4' n	nax. r	nansard	or ga	ble, Othe	CON	ditions m	ay of	er better	1970
spans w/ enclosure site specific engineering.	engineer	ing.												
Spans may be interpolated.			8											

Thicknesses shown are "nominal" industry standard tolerances. No wall thickness shall be less than 0.040".

This structures designed using this section shall be limited to a maximum combined span and upright height of 50' and a naximum upright height of 15'. Structures larger than these limits shall have site specific engineering.

Span is measured from center of beam and upright connection to fascia or wall connection.

Above spans do not include length of knee brace. Add horizontal distance from upright to center of brace to beam onnection to the above spans for total beam spans.

Tables are based on a maximum wall height of 16' including a 4' max. mansard or gable. Other conditions may offer better pars w/ enclosure site specific engineering.

Spans may be interpolated.

Spans may be interpolated.

Beam/Upright or Post 2 x 3 H 2 x 6 SMB 2x5 H OR SMB 2×7SMB 2 x 6 SMB 2 x 4 SMB 2×3H 2×3H 2" x 5" x 0.050" 2" x 2" x 0.044" 2" x 2" x 0.044" 2" x 4" x 0.050" 2" x 3" x 0.044" 2" x 2" x 0.044" 2" x 2" x 0.044" 2" x 3" x 0.045" 2" x 2" x 0.044" 2" x 2" x 0.044" 20 18 16 20 14 10 10 6 14 12 60 0 16 16 14 12 10 Beam Stitching Screw at 24" OC #14 #14 #14 #12 #10 #10 #14 #10 悲 费

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

#8 27 X 97 X 0.0827 X 0.3567 0.194

#10 318" 7" 2" X 9" X 0.0827 X 0.3667 0.194

#14 or 14" 314" 2" X 10" X 0.092" X 0.3697 0.250" 0.250"

#18 or 14" 2" 1.314" 2" X 10" X 0.092" X 0.3697 0.250" 0.250"

*Refers to of the connection of the beam and upright and each side of splice connection.

Connection Example:

2" X 7" beam & 2" X 5" at beam & gusset plate, (14) #8 x 1/2" sms ea. side of beam & 2" X 7" beam & 2" X 5" at beam & 3.2" X 5" at beam & 3.2" X 10" x 0.3557 0.250" 0.250" 2 x 9 SMB ** 2 x 10 SMB Minimum Distance and Spacing of Screws

Edge To Center Center To Center

5/16" 3/4" 3/4"

1/2" 1-1/2"

7/8" 1-3/4" 1-1/2"

1" 1-3/4" 1-3/4"

1" 2"

Connection of 2" x 6" to 2" x 3" shall use a full lap cut or 1/16" gusset plate.

Con 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.

The number of screws is based on the maximum allowable moment of the beam.

The number of deck anchors is based on RAWL R Tapper allowable load data for 2,500 psi concrete and / or equal anchors may e used. The number shown is the total use 1/2 per side.

Hollow splice connections can be made provided the connection is approved by the engineer.

It all the screws on each side of the screws is the same for each splice with 1/2 the screws on each side of the surface of the screws on each side of the screws is the same for each splice with 1/2 the screws on each side of the surface of the screws on each side of the surface of the screws on each side of the surface of the screws on each side of the surface of the screws on each side of the surface of the screws on each side of the surface of the screws on each side of the surface of the screws on each side of the surface of the screws on each side of the surface of the screws on each side of the surface of the screws on each side of the surface of the screws on each side of the surface of the screws on each side of the surface of the screws on each side of the surface of the screws on each side of the surface of the screws of the screws on each side of the screws on each side of the screws on each side of the screws of th

7. All beam to upright connections for 2" x 7" beams or larger shall have an internal gusset plate except when a knee brace is used at the connection, Gusset plates are required for mansard, gabbed and all spliced connections.

8. For gusset plate connections 2" x 9" beams or larger use 3/4" long screws.

9. The side wall upright shall have a minimum beam size as shown above, i.e., a 2" x 4" upright shall have a 2" x 3" beam.

10. For minimum girt size read upright size as a beam and purifis 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.)

6 N N N N Table 1.9.1M Town & Country Industries, Inc.
TCI 6005 Moment Connection
Allowable Spans for Frimary Screen Roof Frame Members
Aluminum Alloy 6005 T-5
For areas with wind loads up to 130 M.P.H., Exposure "B" and latitudes above 30"-30"-00" North (Jacksonville, Florida) that are subject to ice and snow
Uniform Load on Screen = 15 #ISF 300# Point Load is Considered over (1) LF of Beam

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ALUMINUM STRUCTURES DESIGN MANUAL

SCREEN ENCLOSURES

120 MPH MOMENT CONNECTION TABLES

Town & Country

400 W. McNAB ROAD, FORT LAUDERDALE, FLORIDA 33309

	ş		
		2-1/4" 878# 385# 3-1/4" 1,705# 916# 3-3/4" 1,705# 916# 3-3/4" 1,774# 1,095# 3-3/4" 1,774# 1,095# 3-3/4" 1,774# 1,095# 3-3/4" 1,774# 1,095# 3-1/4" 1,095# 3-1/4" 1,095# Allowable Load Coversion Multipliers for Edge Distances More Than 5d Edge Multipliers of Edge Distances More Than 5d Edge Multipliers for Edge Distance More Than 5d Edge Multipliers for Edge Distances More Than 5d Edge Multipliers for Edge Multiplie	Table 9.1 Allowable Loads for Concrete Anchors
3/8"s 2-1/2" 1205# - 34 SF 2410# - 68 SF 3615# - 102 SF 4820# - 138 SF 3-1/2" 3-1/2" 1303# - 23 SF 2806# - 73 SF 3909# - 110 SF 527.2# - 147 SF 12"s 5" 1903# - 51 SF 38162# - 102 SF 4309# - 110 SF 527.2# - 147 SF 17"s 1804# - 51 SF 38162# - 102 SF 5418# - 152 SF 7224# - 203 SF 18 concrete to the concrete anchor and spacing between anchors shall not be less than 5d where d is the anchor diameter. 1933# - 56 SF 3986# - 112 SF 5979# - 168 SF 7972# - 2224 SF 18 concrete to the concrete anchor and spacing between anchors shall not be less than 5d where d is the anchor diameter. 2	Number of Fasteners	1/4"s	s for Open or Enclosed Built of Area for 120 MPH Wind Zone (2 of A
Table 9.6 Maximum Allowable Fastener Loads Tor Metal Plate to Wood Support Metal to Plywood Metal to Plywood Screw Ø (lbs.) (lbs.)	Table 9.5B Allowable Loads & Roof Areas Over Posts for Metal to Metal, Beam to Upright Bolt Connections Partially Enclosed Structures @ 35.53 #/SF Fastener	Allowable Shear Loads on Screws for Nominal Wall Thickness (Y) (lbs.)	Table 9.4 Maximum Allowable Fastener Loads for SAE Grade 5 Steel Fasteners Into 6063 T-6 Alloy Aluminum Framing (As Recommended By Manufacturers) Self-Tapping and Machine Screws Allowable Loads Tensile Strength 55,000 psl; Shear 24,000 psl; Screw/Balt Allowable Tensile Loads on Screws for Nominal Wall Thickness (*I*) (lbs.) #8 0.164* 122 133 233 265 - #10 0.190* 115 177 233 292 333 374 283 295 - #14 0.250* 186 272 233 292 333 374 568 \$5/16** 0.375* 278 377 349 457 529 689 689 779 1057 Allowable Shear Loads on Screws for Nominal Wall Thickness (*I*) (lbs.) Screw/Balt Shear Loads on Screws for Nominal Wall Thickness (*I*) (lbs.) Screw/Balt Shear Loads on Screws for Nominal Wall Thickness (*I*) (lbs.) Screw/Balt Shear Loads on Screws for Nominal Wall Thickness (*I*) (lbs.) Screw/Balt Shear Loads on Screws for Nominal Wall Thickness (*I*) (lbs.) Screw/Balt Shear Loads on Screws for Nominal Wall Thickness (*I*) (lbs.) Screw/Balt Shear Loads on Screws for Nominal Wall Thickness (*I*) (lbs.) Screw/Balt Shear Loads on Screws for Nominal Wall Thickness (*I*) (lbs.) Screw/Balt Shear Loads on Screws for Nominal Wall Thickness (*I*) (lbs.) Screw/Balt Shear Loads on Screws for Nominal Wall Thickness (*I*) (lbs.) Screw/Balt Shear Loads on Screws for Nominal Wall Thickness (*I*) (lbs.) Screw/Balt Shear Loads on Screws for Nominal Wall Thickness (*I*) (lbs.) Screw/Balt Shear Loads on Screws for Nominal Wall Thickness (*I*) (lbs.) Screw/Balt Shear Loads on Screws for Nominal Wall Thickness (*I*) (lbs.) Screw/Balt Shear Loads on Screws for Nominal Wall Thickness (*I*) (lbs.) Screw/Balt Shear Loads on Screws for Nominal Wall Thickness (*I*) (lbs.) Screw/Balt Shear Loads on Screws for Nominal Wall Thickness (*I*) (lbs.) Screw/Balt Shear Loads on Screws for Nominal Wall Thickness (*I*) (lbs.) Screw/Balt Shear Loads on Screws for Nominal Wall Thickness (*I*) (lbs.) Screw/Balt Shear Loads on Screws for Nominal Wall Thickness (*I*
	0.46	Extrusions	Table 9.8 Alternative Angle and Anchor Systems for Beams Anchored to Walls, Uprights, Carrier Beams, or Other Connections
18 18 18 18 18 18 18 18 18 18 18 18 18 1	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	ALUMINUM STRUCTURES DESIGN MANUAL SCREEN ENCLOSURES SECTION 9 TABLES 2004 FBC W/ 2006 SUPPLEMENTS	Jown & Country INDUSTRIES, INC. Wholesale Aluminum Distributors

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