

ENGINEERING CALCULATIONS

VULCAN STEEL STRUCT.
Job Number 19076
End User MIKE TODD CONSTRUCTION
Job Location: FORT WHITE, FL 32038

DATE: 9/23/08
DESIGNED BY: MJF
DETAILED BY: PK
CHECKED BY: DB

DESIGN PARAMETERS	COMMENTS
BUILDING DESCRIPTION:	
NOMINAL WIDTH:	30 feet
NOMINAL LENGTH:	40 feet
EAVE HEIGHT, BACK S.W:	10 feet
EAVE HEIGHT, FRONT S.W:	10 feet
ROOF SLOPE, LEFT:	1.0:12
ROOF SLOPE, RIGHT:	1.0:12

DESIGN LOADS

BUILDING CODE: FBC 04
(WITH 2006 AMENDMENTS)

SNOW :

FRAME SELF WEIGHT:	INCLUDED	FLAT ROOF SNOW LOAD	Pf :	NR
ROOF DEAD LOAD:	2.000 psf	GROUND SNOW LOAD	Pg :	0 psf
COLLATERAL LOAD:	0 psf	SNOW LOAD IMP. FACTOR		NR
LIVE LOAD:	20.00 psf	THERMAL FACTOR Ct :		NR
SNOW LOAD, ROOF:	NR	SNOW EXP. FACTOR Ce :		NR
WIND SPEED: (3 SEC GUST)	110 mph			
WIND EXPOSURE:	B			
CLOSURE "C, 0, P" :	Closed			
IMP. FACTOR, WIND :	1.00			

OCCUPANCY CATEGORY : II - Normal
SEISMIC IMPORTANCE FACTOR, Is: 1.00
MAPPED SPECTRAL RESPONSE ACCELERATION, Ss: 0.12
MAPPED SPECTRAL RESPONSE ACCELERATION, S1: 0.06

RESPONSE MODIFICATION FACTOR, R (FRAMES): 3.50
SEISMIC RESPONSE COEFFICIENT, Cs: 0.03
SPECTRAL RESPONSE COEF. "SDS" : 0.13
(2 SEC PERIOD)
SPECTRAL RESPONSE COEF. "SD1" : 0.09
(1 SEC PERIOD)

SITE CLASS (ASSUMED) : D
BASIC SEISMIC-FORCE RESISTING SYSTEM MOMENT RESISTING FRAME
DESIGN BASE SHEAR : V = Cs * W
ANALYSIS PROCEDURE : EQUIVALENT LATERAL FORCE PROCEDURE

DRAWING RELEASE HISTORY

DRAWING REVISIONS

DATE SENT	REASON FOR RELEASE	REVISION	DATE	BY	DESCRIPTION
A					
B					
C					
D					
E					
F					
G					
H					
I					
J					
K					
L					
M					

GENERAL NOTES

1. MATERIALS

ASTM DESIGNATION	
STRUCTURAL STEEL PLATE	A529 OR A572 OR A570 OR A607
COLD FORMED LIGHT GAGE SHAPES	A570 OR A607
BRACE RODS	A572
HOT ROLLED MILL SHAPES	A36 OR A572
ROOF AND WALL SHEETS	A653 OR A792
BOLTS	A307, A325, AND A490
BUILT-UP MEMBERS	A570
	GRADE 50
	GRADE 55
	GRADE 65, UNLESS NOTED
	FY= 36 KSI OR GRADE 50
	GRADE 50
	A307 UNLESS NOTED
	GRADE 50 OR 55

2. STRUCTURAL PRIMER

SHOP PRIMER PAINT IS A RUST INHIBITIVE PRIMER AND IT'S COLOR IS RED OXIDE.
THIS PAINT IS NOT INTENDED FOR LONG TERM EXPOSURE TO THE ELEMENTS.

3. A325 BOLT TIGHTENING REQUIREMENTS

ALL HIGH STRENGTH BOLTS ARE A325-N UNLESS SPECIFICALLY NOTED OTHERWISE.

STRUCTURAL BOLTS SHALL BE TIGHTENED BY THE TURN-OF-THE-NUT METHOD IN ACCORDANCE WITH THE 13th EDITION, AISC "SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS". PER SECTION 8.2, A325 BOLTS MAY BE INSTALLED WITHOUT WASHERS WHEN TIGHTENED BY THE TURN-OF-THE NUT METHOD.

ALL HIGH STRENGTH BOLTS, EXCEPT AS NOTED OTHERWISE, ARE SUBJECT TO DIRECT TENSION AND MAY REQUIRE INSPECTION AS DEFINED BY THE APPLICABLE BUILDING CODE OR STANDARD. IT IS THE RESPONSIBILITY OF THE ERECTOR TO ASSURE PROPER TIGHTNESS.

4. BUILDER/CONTRACTOR RESPONSIBILITIES

THE METAL BUILDING MANUF.'S STANDARD PRODUCT SPECIFICATIONS APPLY AND UNLESS STIPULATED OTHERWISE IN THE CONTRACT DOCUMENTS, THE METAL BUILDING MANUF.'S DESIGN, FABRICATION, QUALITY CRITERIA STANDARDS AND TOLERANCES WILL GOVERN THE WORK.

IN CASE OF DISCREPANCIES BETWEEN METAL BUILDINGS MANUF. STRUCTURAL PLANS AND PLANS FOR OTHER TRADES, THE METAL BUILDING MANUF.'S PLANS SHALL GOVERN.

IT IS THE RESPONSIBILITY OF THE BUILDER / CONTRACTOR TO OBTAIN APPROPRIATE APPROVALS AND NECESSARY PERMITS FROM CITY, COUNTY, STATE, OR FEDERAL AGENCIES, AS REQUIRED.

APPROVAL OF METAL BUILDING MANUF.'S DRAWINGS CONSTITUTES THE BUILDER / CONTRACTOR'S ACCEPTANCE OF THE METAL BUILDING MANUF.'S INTERPRETATION OF THE CONTRACT PURCHASE ORDER.

ONCE THE BUILDER / CONTRACTOR OR A/E FIRM HAS SIGNED MANUF.'S APPROVAL PACKAGE, CHANGES FROM THE PURCHASE ORDER BY THE BUILDER WILL BE BILLED TO THE BUILDER / CONTRACTOR FOR MATERIAL, ENGINEERING AND HANDLING FEES. SUCH CHANGES MAY CAUSE THE PROJECT TO BE MOVED FROM THE FABRICATION AND / OR SHIPPING SCHEDULE. A PENALTY FEE MAY BE CHARGED IF THE PROJECT MUST BE MOVED FROM THE FABRICATION AND / OR SHIPPING SCHEDULE, AS LONG AS THE MANUF.'S DESIGN AND DETAILING APPROACH COMPLES WITH THE PURCHASE ORDER.

THE BUILDER / CONTRACTOR OR A/E FIRM ARE RESPONSIBLE FOR THE OVERALL PROJECT CONDITION. ALL INTERFACE AND COMPATIBILITY CONCERNING ANY MATERIALS NOT FURNISHED BY THE MANUF. ARE TO BE CONSIDERED AND COORDINATED BY THE BUILDER / CONTRACTOR OR A/E FIRM. UNLESS SPECIFIC DESIGN CRITERIA CONCERNING THIS INTERFACE BETWEEN MATERIALS IS FURNISHED AS PART OF THE PURCHASE ORDER. THE METAL BUILDING MANUF.'S ASSUMPTIONS WILL GOVERN.

THE BUILDER / CONTRACTOR IS RESPONSIBLE TO INSURE THAT ALL OTHER PROJECT PLANS AND SPECIFICATIONS COMPLY WITH THE APPLICABLE REQUIREMENTS OF ANY GOVERNING BUILDING AUTHORITY. SUPPLYING SEALED ENGINEERING DESIGN DATA AND DRAWINGS BY THE BUILDING MANUF. DOES NOT IMPLY OR CONSTITUTE AN AGREEMENT THAT THE BUILDING MANUF. OR ITS DESIGN ENGINEER IS ACTING AS THE ENGINEER OF RECORD OR DESIGN PROFESSIONAL FOR THE CONSTRUCTION PROJECT. THESE DRAWINGS AND DESIGN DATA ARE SEALED AS TO THE STRUCTURAL SYSTEM FURNISHED BY THE METAL BUILDING MANUF. IN COMPLIANCE WITH ALL REQUIREMENTS OF THE PURCHASE ORDER.

THE BUILDER / CONTRACTOR IS RESPONSIBLE FOR SETTING OF ANCHOR BOLTS AND ERECTION OF STEEL BUILDING COMPONENTS IN ACCORDANCE WITH THE METAL BUILDING MANUF.'S "FOR CONSTRUCTION" DRAWINGS. TEMPORARY SUPPORTS OR BRACING REQUIRED FOR THE BUILDING ERECTION WILL BE THE RESPONSIBILITY OF THE ERECTOR TO DETERMINE, FURNISH, AND INSTALL.

THE METAL BUILDING MANUF. DOES NOT WARRANT STRUCTURAL INTEGRITY OF ANY COMPONENTS FIELD MODIFIED OR DESIGNED AND FABRICATED BY OTHERS. NEITHER DO WE ACCEPT DESIGN RESPONSIBILITY FOR THE EFFECTS NON STANDARD COMPONENTS DESIGNED BY OTHERS MAY HAVE ON THE SYSTEM IN GENERAL.

SPECIAL NOTE:

BUILDING IS NOT STRUCTURALLY SOUND UNTIL ALL WALL COVERING, ROOF SHEETS, AND PERMANENT BRACING IS INSTALLED. BUILDER / CONTRACTOR IS RESPONSIBLE FOR SUPPORTS OR TEMPORARY BRACING DURING ERECTION. HE SHALL FURNISH, AND INSTALL THESE TEMPORARY SUPPORTS WHERE NECESSARY. TEMPORARY SUPPORTS ARE NOT PROVIDED BY THE METAL BUILDING MANUFACTURER.

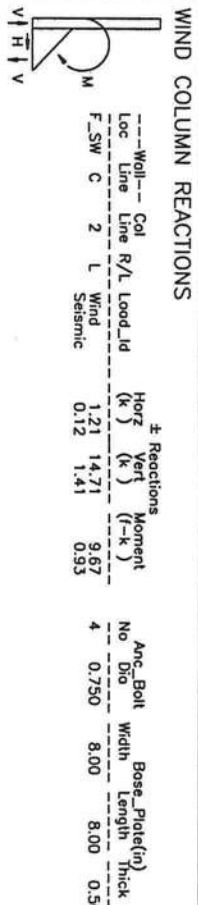
FLORIDA PRODUCT APPROVAL INFORMATION

APPROVAL #		
26 GA. 26 PBR PANEL ~ Galvolume		FL5346.1
26 GA. 26 PBR PANEL ~ Light Stone		FL5335.1
3070 WALK DOOR		FL2501.1

SHEETING		
ROOF PANEL:	PANEL TYPE	COLOR
GAUGE	26 PBR	Galvolume
WALL PANEL:	PANEL TYPE	COLOR
GAUGE	26 PBR	Light Stone
WALL TRIM COLOR:		
Saddle Ton		
GABLE TRIM COLOR:		
Saddle Ton		

ENGINEER'S STAMP





- GENERAL NOTES
- (1) APPLICATION OF ENGINEERS SEAL IS FOR METAL BUILDING ONLY AND DOES NOT REPRESENT THE PROFESSIONAL OF RECORD.
 - (2) FOUNDATION DESIGN AND CONSTRUCTION ARE NOT THE RESPONSIBILITY OF THE METAL BUILDING MANUFACTURER.
 - (3) ANCHOR BOLTS SHALL BE ACCURATELY SET TO A TOLERANCE OF +/- 1/8" IN BOTH ELEVATION AND LOCATION.
 - (4) THE BUILDING REACTION DATA REPORTS THE LOADS WHICH THIS BUILDING PLACES ON THE FOUNDATION. THE FOUNDATION IS TO BE DESIGNED BY A QUALIFIED ENGINEER TO SUPPORT THE BUILDING REACTIONS IN ADDITION TO OTHERS IMPOSED BY THE BUILDING USE OR OCCUPANCY WITH RESPECT TO JOB SITE CONDITIONS.
 - (5) ALL ANCHOR BOLTS TO BE ASIM SPECIFICATION A307 UNLESS OTHERWISE NOTED.
 - (6) VALUES GIVEN FOR BENDS AND ANCHOR BOLT TOTAL LENGTHS ARE SUGGESTED LENGTHS ONLY. IT IS THE RESPONSIBILITY OF THE FOUNDATION ENGINEER TO DETERMINE THESE VALUES SINCE THEY ARE A FUNCTION OF CONCRETE STRENGTH AS WELL AS OTHER FACTORS.

Protection of Opening

This building is located in a wind-borne debris region. Exterior glazing is assumed to be impact resistant and meet the provisions of the missile test, or they should be protected by impact resistant covering meeting the requirements of SST12, ASTM E 1886 and ASTM E 1966 or Miami-Dade PA 201, 202, & 203. Openings may also be protected by structural wood panels having a min. thickness of 7/16" and maximum panel span of 8 feet. Attachment hardware and fastening schedule shall be in accordance with the following table.

WIND-BORNE DEBRIS PROTECTION FASTENING SCHEDULE FOR WOOD STRUCTURAL PANELS (PLYWOOD)				
FASTENER TYPE	FASTENER SPACING (in.) ^{1,2}			
	PANEL SPAN ≤ 2ft	2ft< PANEL SPAN ≤ 4 ft.	4ft< PANEL SPAN ≤ 6 ft.	6ft< PANEL SPAN ≤ 8 ft.
#8 Wood screw-based anchor with 2" embedment length.	16	16	10	8
#10 Wood screw-based anchor with 2" embedment length.	16	16	12	9
1/4" Lag screw-based anchor with 2" embedment length.	16	16	16	16

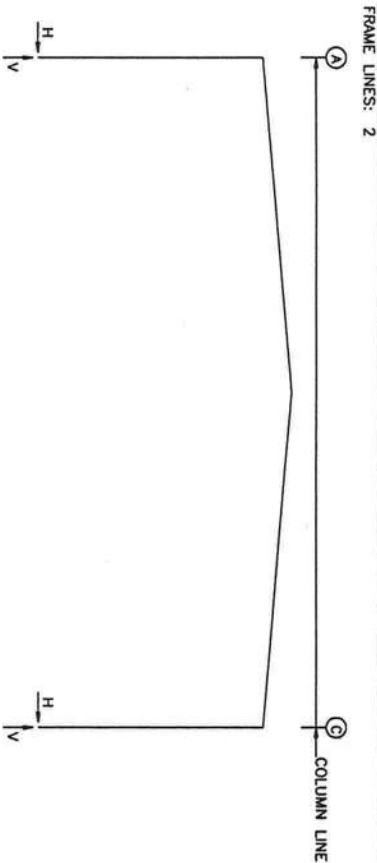
SI: 1 inch=25.4 mm 1 foot=305 mm

Notes:

- 1.) This table is based on a maximum wind speed of 140 m.p.h. (63 m/s) and mean roof height of 45 feet (13.716 m) or less.
- 2.) Fasteners shall be installed at opposing ends of the wood structural panel.
- 3.) Where screws are attached to masonry or stucco, they shall be attached using vibration-resistant anchors having a minimum withdrawal capacity of 490 lb. (2180 kN).

BRACING REACTIONS, PANEL SHEAR				
Loc Line	Col Line	± Reactions (k)	Panel Shear (lb/ft)	
Loc Line	Col Line	Horz Vert	Horz Vert	
F-SW 1	Wind Column in Wall			27
R-EW 3				27
B-SW 4	2 .1 1.2 0.4 0.1 0.0			

NOTES FOR REACTIONS				
Building reactions are based on the following building data:				
Width (ft)		= 30.0		
Length (ft)		= 40.0		
Eave Height (ft)		= 10.0/10.0		
Roof Slope (rise/run)		= 10.0/10.0		
Dead Load (psf)		= 20.0		
Roof Live Load (psf)		= 16.0		
Front Live Load (psf)		= 110.0		
Wind Speed (mph)		= FBC 04		
Wind Code (3 sec gust)		= FBC 04		
Exposure		= B		
Closed/Open		= C		
Importance		= 1.00		
Seismic Zone		= B		
Seismic Coef (FoS)		= 0.20		
Id Description				
1	DL+CL+LL			
2	0.60DL+W1			
3	0.60DL+W1			
4	0.60DL+W1			
5	0.60DL+W1			
6	0.60DL+W1			
7	0.60DL+W1			
8	0.60DL+W1			



RIGID FRAME: ANCHOR BOLTS & BASE PLATES

RIGID FRAME: BASIC COLUMN REACTIONS (k)					
Line	Col	± Reactions (k)	Base Plate (in)		Groat (in)
Line	Col	Horz	Vert	Horz	Vert
2	A	0.750	8.000	7.880	0.500
2	C	0.750	8.000	10.38	0.500

RIGID FRAME: BASIC COLUMN REACTIONS (k)													
		Dead		Live		Wind L1		Wind R1		Wind L2		Wind R2	
Frame	Column	Horz	Vert	Horz	Vert	Horz	Vert	Horz	Vert	Horz	Vert	Horz	Vert
2	A	0.35	0.99	2.35	5.99	-3.16	-5.97	-0.17	-3.84	-2.94	-3.49	0.05	-1.34
2	A	-0.35	0.99	-2.35	6.01	0.17	-3.84	3.16	-5.97	-0.05	-1.34	2.94	-3.39
Frame	Column	Wind L1		Wind L2		Seismic L		Seismic R					
2	A	Horz	Vert	Horz	Vert	Horz	Vert	Horz	Vert				
2	A	0.70	-3.38	0.51	-5.44	-0.07	0.05	0.07	-0.05				

ENDWALL COLUMN: BASIC COLUMN REACTIONS (k)

ENDWALL COLUMN: BASIC COLUMN REACTIONS (k)															
Line		Col		± Reactions (k)		Base Plate (in)		Groat (in)		± Reactions (k)		Base Plate (in)		Groat (in)	
Line	Col	Horz	Vert	Horz	Vert	Horz	Vert	Horz	Vert	Horz	Vert	Horz	Vert	Horz	Vert
1	A	0.750	8.000	7.880	0.500	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1	A	0.750	8.000	10.38	0.500	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1	B	0.47	3.66	1.22	-2.83	-2.83	-0.64	0.00	1.14	1.25	-3.55	0.00	0.00	0.00	0.00
1	C	0.18	1.22	-0.64	-1.26	-0.64	-1.26	0.00	0.00	0.00	-1.20	0.00	0.00	0.00	0.00
Line		Col		± Reactions (k)		Base Plate (in)		Groat (in)		± Reactions (k)		Base Plate (in)		Groat (in)	
Line	Col	Horz	Vert	Horz	Vert	Horz	Vert	Horz	Vert	Horz	Vert	Horz	Vert	Horz	Vert
1	A	0.00	0.00	1.83	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1	B	0.00	-0.18	0.00	-1.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Line		Col		± Reactions (k)		Base Plate (in)		Groat (in)		± Reactions (k)		Base Plate (in)		Groat (in)	
Line	Col	Horz	Vert	Horz	Vert	Horz	Vert	Horz	Vert	Horz	Vert	Horz	Vert	Horz	Vert
1	A	0.00	0.00	1.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1	B	0.00	1.83	0.00	-1.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1	C	0.00	-0.18	0.00	1.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Line		Col		± Reactions (k)		Base Plate (in)		Groat (in)		± Reactions (k)		Base Plate (in)		Groat (in)	
Line	Col	Horz	Vert	Horz	Vert	Horz	Vert	Horz	Vert	Horz	Vert	Horz	Vert	Horz	Vert
1	A	0.00	0.00	1.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1	B	0.00	1.83	0.00	-1.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1	C	0.00	-0.18	0.00	1.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Line		Col		± Reactions (k)		Base Plate (in)		Groat (in)		± Reactions (k)		Base Plate (in)		Groat (in)	
Line	Col	Horz	Vert	Horz	Vert	Horz	Vert	Horz	Vert	Horz	Vert	Horz	Vert	Horz	Vert
1	A	0.00	0.00	1.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1	B	0.00	1.83	0.00	-1.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1	C	0.00	-0.18	0.00	1.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Line		Col		± Reactions (k)		Base Plate (in)		Groat (in)		± Reactions (k)		Base Plate (in)		Groat (in)	
Line	Col	Horz	Vert	Horz	Vert	Horz	Vert	Horz	Vert	Horz	Vert	Horz	Vert	Horz	Vert
1	A	0.00	0.00	1.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1	B	0.00	1.83	0.00	-1.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1	C	0.00	-0.18	0.00	1.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Line		Col		± Reactions (k)		Base Plate (in)		Groat (in)		± Reactions (k)		Base Plate (in)		Groat (in)	
Line	Col	Horz	Vert	Horz	Vert	Horz	Vert	Horz	Vert	Horz	Vert	Horz	Vert	Horz	Vert
1	A	0.00	0.00	1.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1	B	0.00	1.83	0.00	-1.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1	C	0.00	-0.18	0.00	1.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Line		Col		± Reactions (k)		Base Plate (in)		Groat (in)		± Reactions (k)		Base Plate (in)		Groat (in)	
Line	Col	Horz	Vert	Horz	Vert	Horz	Vert	Horz	Vert	Horz	Vert	Horz	Vert	Horz	Vert
1	A	0.00	0.00	1.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1	B	0.00	1.83	0.00	-1.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1	C	0.00	-0.18	0.00	1.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Line		Col		± Reactions (k)		Base Plate (in)		Groat (in)		± Reactions (k)		Base Plate (in)		Groat (in)	
Line	Col	Horz	Vert	Horz	Vert	Horz	Vert	Horz	Vert	Horz	Vert	Horz	Vert	Horz	Vert
1	A	0.00	0.00	1.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1	B	0.00	1.83	0.00	-1.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1	C	0.00	-0.18	0.00	1.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Line		Col		± Reactions (k)		Base Plate (in)		Groat (in)		± Reactions (k)		Base Plate (in)		Groat (in)	
Line	Col	Horz	Vert	Horz	Vert	Horz	Vert	Horz	Vert	Horz	Vert	Horz	Vert	Horz	Vert
1	A	0.00	0.00	1.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1	B	0.00	1.83	0.00	-1.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1	C	0.00	-0.18	0.00	1.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Line		Col		± Reactions (k)		Base Plate (in)		Groat (in)		± Reactions (k)		Base Plate (in)		Groat (in)	
Line	Col	Horz	Vert	Horz	Vert	Horz	Vert	Horz	Vert	Horz	Vert	Horz	Vert	Horz	Vert
1	A	0.00	0.00	1.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1	B	0.00	1.83	0.00	-1.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1	C	0.00	-0.18	0.00	1.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Line		Col		± Reactions (k)		Base Plate (in)		Groat (in)		± Reactions (k)		Base Plate (in)		Groat (in)	
Line	Col	Horz	Vert	Horz	Vert	Horz	Vert	Horz	Vert	Horz	Vert	Horz	Vert	Horz	Vert
1	A	0.00	0.00	1.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1	B	0.00	1.83	0.00	-1.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1	C	0.00	-0.18	0.00	1.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Line		Col		± Reactions (k)		Base Plate (in)		Groat (in)		± Reactions (k)		Base Plate (in)		Groat (in)	
Line	Col	Horz	Vert	Horz	Vert	Horz	Vert	Horz	Vert	Horz	Vert	Horz	Vert	Horz	Vert
1	A	0.00	0.00	1.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1	B	0.00	1.83	0.00	-1.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1	C	0.00	-0.18	0.00	1.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Line		Col		± Reactions (k)		Base Plate (in)		Groat (in)		± Reactions (k)		Base Plate (in)		Groat (in)	
Line	Col	Horz	Vert	Horz	Vert	Horz	Vert	Horz	Vert	Horz	Vert	Horz	Vert	Horz	Vert
1	A	0.00	0.00	1.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1	B	0.00	1.83	0.00	-1.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1	C	0.00	-0.18	0.00	1.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Line		Col		± Reactions (k)		Base Plate (in)		Groat (in)		± Reactions (k)		Base Plate (in)		Groat (in)	
Line	Col	Horz	Vert	Horz	Vert	Horz	Vert	Horz	Vert	Horz	Vert	Horz	Vert	Horz	Vert
1	A	0.00	0.00	1.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1	B	0.00	1.83	0.00	-1.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1	C	0.00	-0.18	0.00	1.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Line		Col		± Reactions (k)		Base Plate (in)		Groat (in)		± Reactions (k)		Base Plate (in)		Groat (in)	
Line	Col	Horz	Vert	Horz	Vert	Horz	Vert	Horz	Vert	Horz	Vert	Horz	Vert	Horz	Vert
1	A	0.00	0.00	1.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1	B	0.00	1.83	0.00	-1.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1	C	0.00	-0.18	0.00	1.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Line		Col		± Reactions (k)		Base Plate (in)		Groat (in)		± Reactions (k)		Base Plate (in)		Groat (in)	
Line	Col	Horz	Vert	Horz	Vert	Horz	Vert	Horz	Vert	Horz	Vert	Horz	Vert	Horz	Vert
1	A	0.00	0.00	1.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1	B	0.00	1.83	0.00	-1.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1	C	0.00	-0.18	0.00	1.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Line		Col		± Reactions (k)		Base Plate (in)		Groat (in)		± Reactions (k)		Base Plate (in)		Groat (in)	
Line	Col	Horz	Vert	Horz	Vert	Horz	Vert	Horz	Vert	Horz	Vert	Horz	Vert	Horz	Vert
1	A	0.00	0.00	1.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1	B	0.00	1.83	0.00	-1.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1	C	0.00	-0.18	0.00	1.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Line		Col		± Reactions (k)		Base Plate (in)		Groat (in)		± Reactions (k)		Base Plate (in)		Groat (in)	
Line	Col	Horz	Vert	Horz	Vert	Horz	Vert	Horz	Vert	Horz	Vert	Horz	Vert	Horz	Vert
1	A	0.00	0.00	1.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1	B	0.00	1.83	0.00	-1.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1	C	0.00	-0.18	0.00	1.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Line		Col		± Reactions (k)		Base Plate (in)		Groat (in)		± Reactions (k)		Base Plate (in)		Groat (in)	
Line	Col	Horz	Vert	Horz	Vert	Horz	Vert	Horz	Vert	Horz	Vert	Horz	Vert	Horz	Vert
1</															

ENDWALL COLUMN: ANCHOR BOLTS & BASE PLATES

ENDWALL COLUMN: ANCHOR BOLTS & BASE PLATES				
Line	Col	± Reactions (k)	Base Plate (in)	Groat (in)
Line	Col	Horz Vert	Horz Vert	Horz Vert
1	A	0.750 8.000	7.880 0.500	0.0 0.0
1	B	0.625 3.000	5.750 0.134	0.0 0.0
1	C	2.0 0.625	3.000 5.750 0.134	0.0 0.0
3	C	2.0 0.625	3.000 5.750 0.134	0.0 0.0
3	B	2.0 0.625	3.000 5.750 0.134	0.0 0.0
3	A	2.0 0.625	3.000 5.750 0.134	0.0 0.0

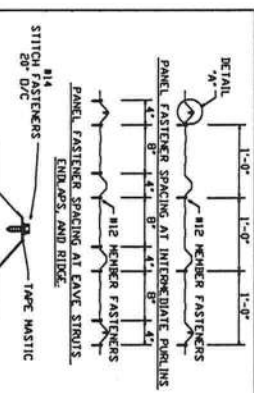
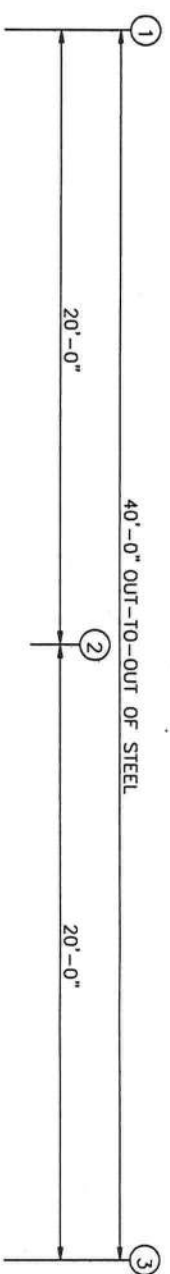
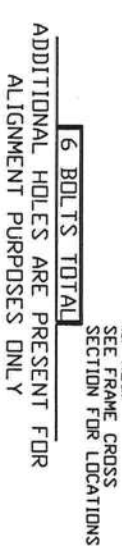
SEP 24 2008

REVISIONS				
REV.	DESCRIPTION	DATE	DLR	CHKR

DRAWING STATUS				
REV.	DESCRIPTION	DATE	DLR	CHKR

DRAWING STATUS				
REV.	DESCRIPTION	DATE	DLR	CHKR

DRAWING STATUS				
REV.	DESCRIPTION	DATE	DLR	CHKR



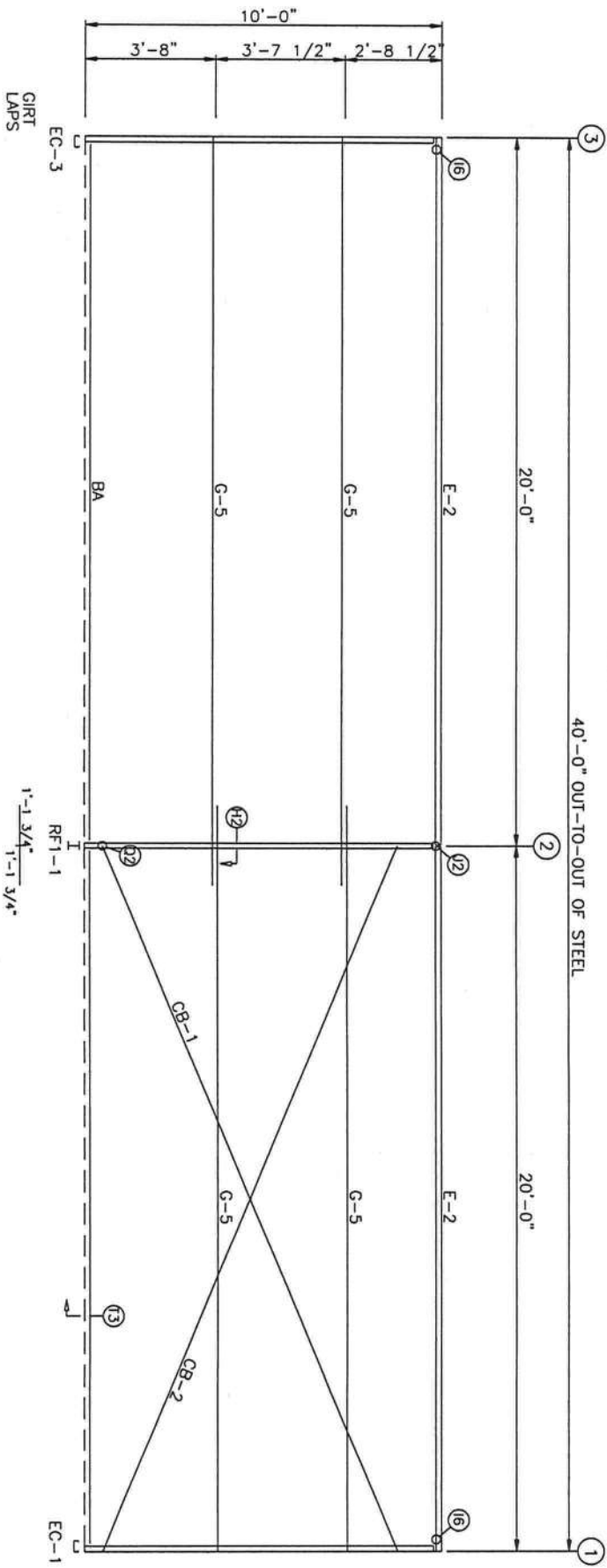
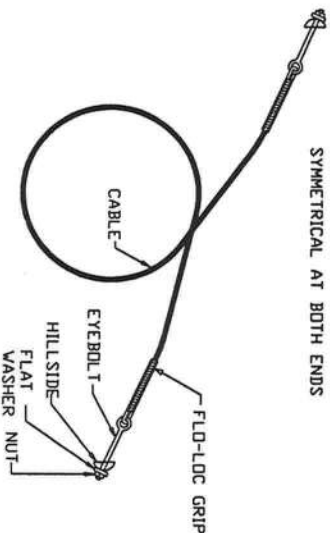
'PBR' ROOF PANEL ATTACHMENT DETAIL

SEAL

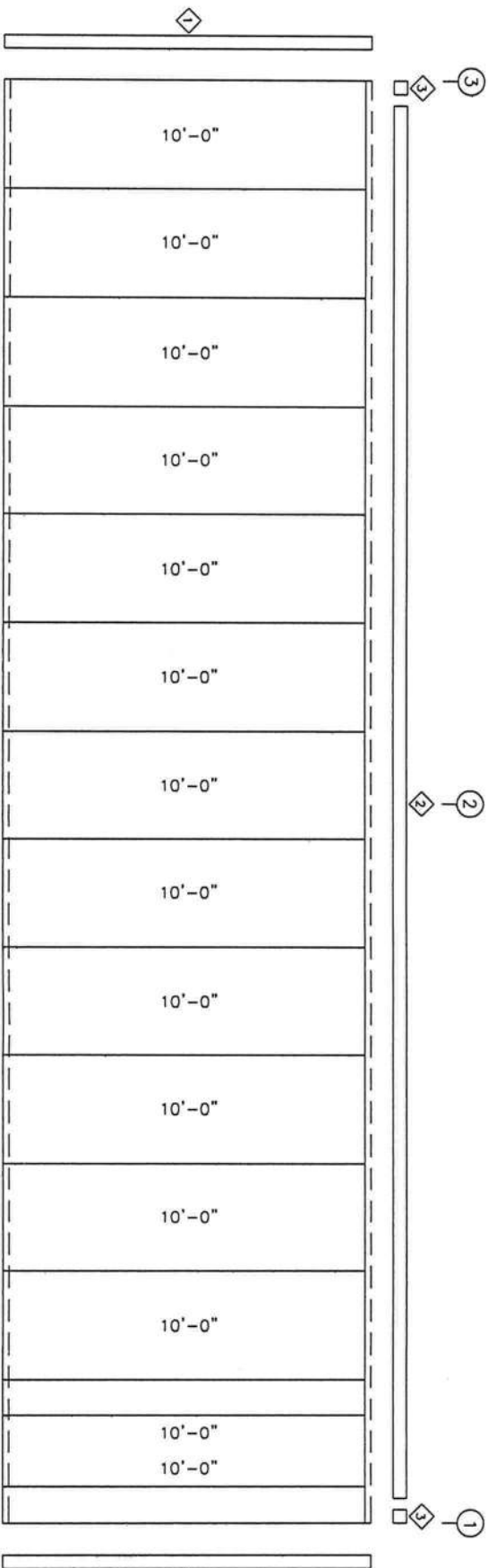
SEP 24 2008

REVISIONS				DRAWING STATUS				VULCAN STEEL STRUCT.		MIKE TODD CONSTRUCTION	
REV.	DESCRIPTION:	DATE	DLTR	DATE	CHKR	APPD		PROJECT	30'-0" x 40' x 100	ROOF FRAMING	
								ID	19076	DRAFT: PK	CHECK: DB
								PROJECT	FORT WHITE, FL 32038	DATE: 9/23/08	SHEET 4
								ADDRESS			

BRACE CABLE ASSEMBLY
CABLE HARDWARE FACTORY ATTACHED
SYMMETRICAL AT BOTH ENDS



SIDEWALL FRAMING: FRAME LINE A



SIDEWALL SHEETING & TRIM: FRAME LINE A

PANELS: 26 Co. PBR - Light Stone

TRIM TABLE			
FRAME LINE A			
ID	MARK	LENGTH	DETAIL
1	CTR	10'-2"	TM29
2	SET	20'-3"	TM12
3	VRE	6"	TM40

MEMBER TABLE			
FRAME LINE A			
MARK	PART	LENGTH	
E-2	BE275D16	19'-11 1/2"	
G-5	8X25216	21'-1 1/2"	
CB-1	0.250CBL	21'-1"	
CB-2	0.250CBL	21'-4"	

GENERAL NOTES:
(1.) IF CABLE BRACING, WIND BENTS, WIND COLUMNS, OR WEAK AXIS DESIGN OF SIDE WALL COLUMNS WERE NOT PROVIDED IT HAS BEEN DETERMINED THAT DIAPHRAGM PANEL ACTION IS SUFFICIENT TO RESIST LONGITUDINAL FORCES. TEMPORARY BRACING SHOULD BE PROVIDED BY ERECTOR UNTIL ALL WALL AND ROOF PANELS ARE INSTALLED.

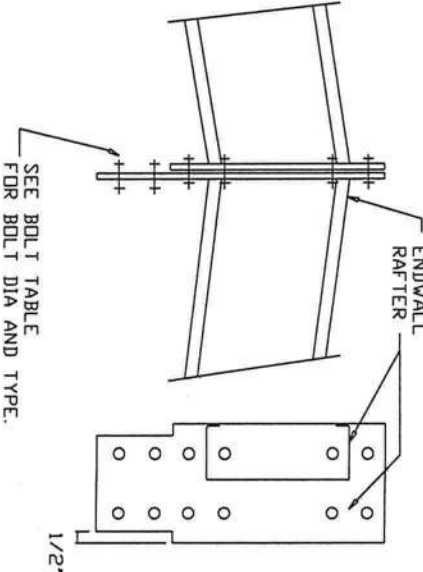
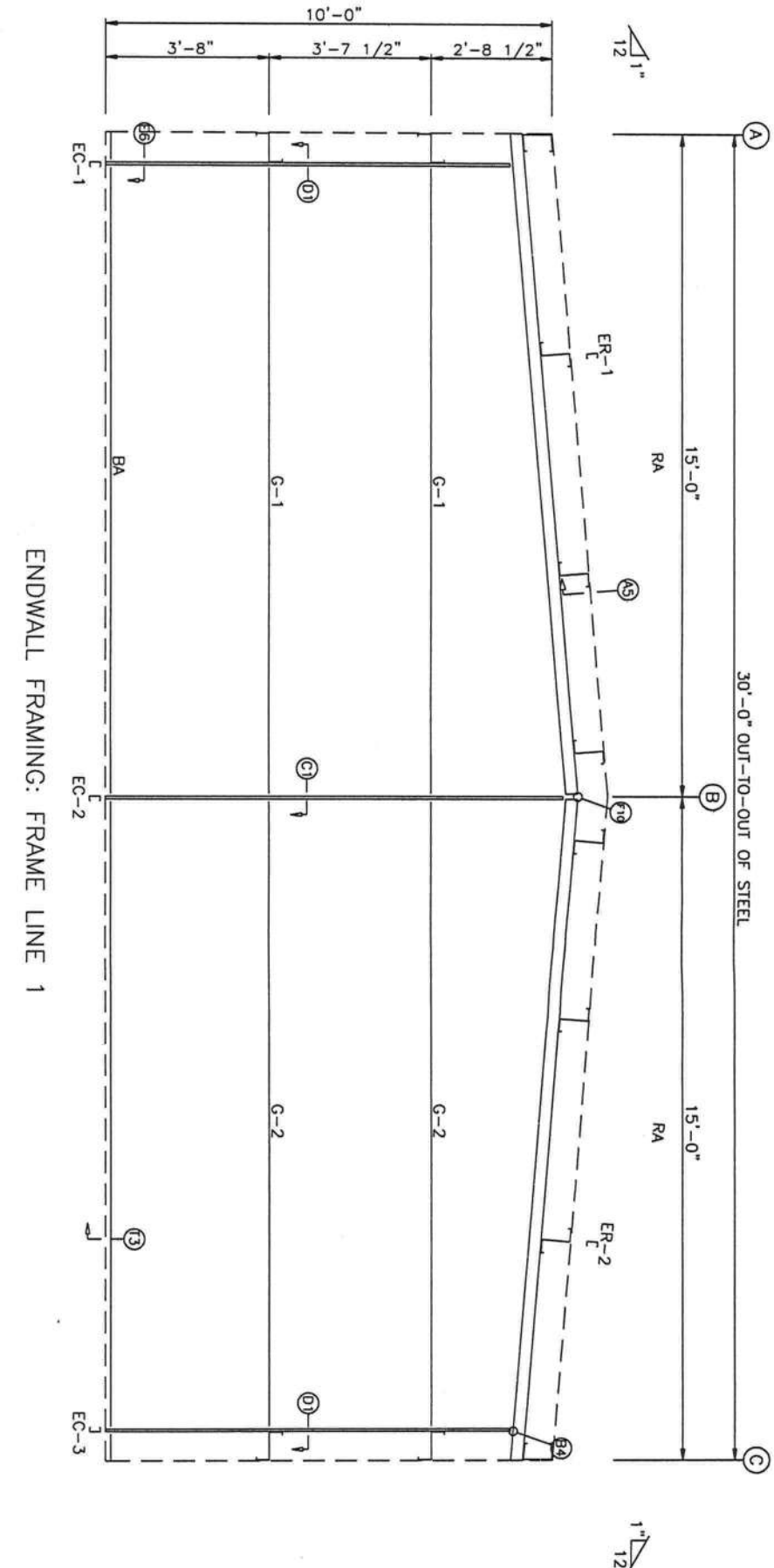
REVISIONS						DRAWING STATUS		VULCAN STEEL STRUCT.		MIKE TODD CONSTRUCTION	
REV.	DESCRIPTION:					[] FOR CONSTRUCTION	[X] FOR PERMIT ONLY	PROJECT	3600' x 400 x 100	SIDEWALL FRAMING	
		DATE	DLR	DATE	CHKR	APPD	[] FOR APPROVAL	PROJECT	19076	DRG T: PK	CHECK: DB
							[] OTHER, EXPLAIN	PROJECT	FORT WHITE, FL 32038	SHEET	6
								ADDRESS		DATE: 9/23/08	

SEAL
SEP 24 2008

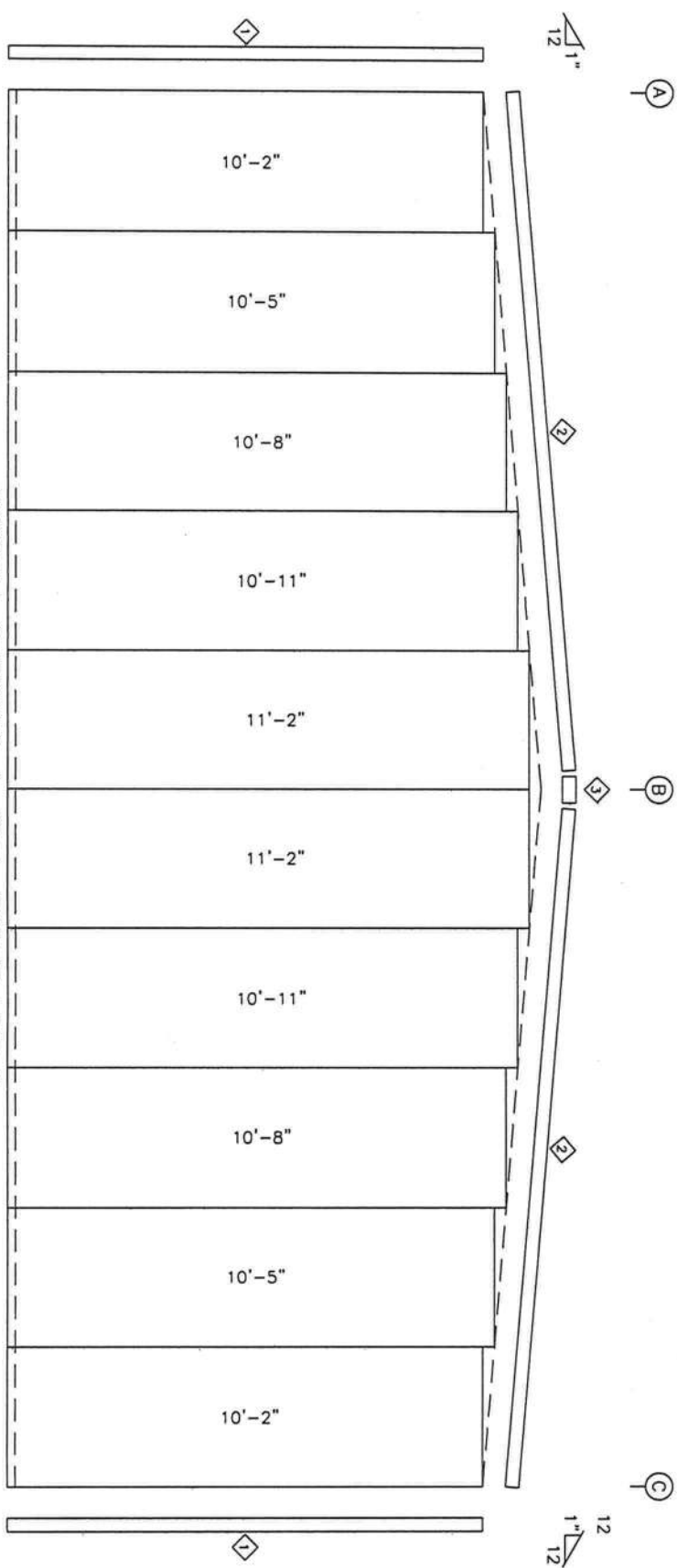
BOLT TABLE				
FRAME LINE 1				
LOCATION		QUAN	TYPE	DIA
ER-1/ER-2		4	A325	5/8"
Cor_Column/Rof		4	A325	1 1/4"
Int_Column/Rof		4	A325	5/8"

TRIM TABLE			
FRAME LINE 1			
QID	MARK	LENGTH	DETAIL
1	CTR	10'-2"	TRIM-29
2	VRT	15'-4"	TRIM-11
3	VPB	1'-4"	TRIM-39

MEMBER TABLE			
FRAME LINE 1			
MARK	PART	LENGTH	
EC-1	8x35C16	8'-7 5/8"	
EC-2	8x35C16	9'-6 1 1/16"	
EC-3	8x35C16	8'-7 5/8"	
ER-1	8x35C14	15'-0 5/8"	
ER-2	8x35C14	15'-0 5/8"	
G-1	8x25Z16	14'-0"	
G-2	8x25Z16	13'-8 1/2"	



F10 RAFTER SPLICE AT SURFACE CHANGE



ENDWALL SHEETING & TRIM: FRAME LINE 1

PANELS: 26 Co. PBR - Light Stone

GENERAL NOTES:
(1.) IF CABLE BRACING FOR END WALL IS NOT SHOWN ON ERECTION DRAWINGS IT HAS BEEN DETERMINED THAT DIAPHRAGM PANEL ACTION IS SUFFICIENT TO RESIST LONGITUDINAL FORCES. TEMPORARY BRACING SHOULD BE PROVIDED BY ERECTOR UNTIL ALL WALL AND ROOF PANELS ARE INSTALLED.

REVISIONS					
REV.	DESCRIPTION	DATE	DLR	DATE	CHKR

DRAWING STATUS		VULCAN STEEL STRUCT.		MIKE TODD CONSTRUCTION	
☐	FOR CONSTRUCTION	PROJECT	3000' x 400' x 100'	DESIGN: MJF	DRAFT: PK
☐	FOR PERMIT ONLY	ID	19076	DATE: 9/23/08	CHECK: DB
☐	FOR APPROVAL	PROJECT	FORT WHITE, FL 32038		
☐	OTHER, EXPLAIN	ADDRESS			

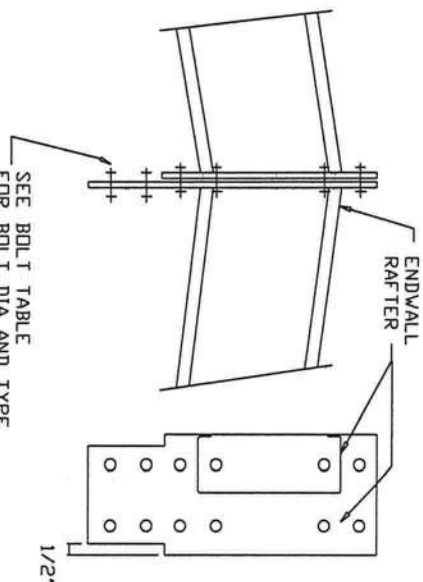
SEAL

SEP 24 2008

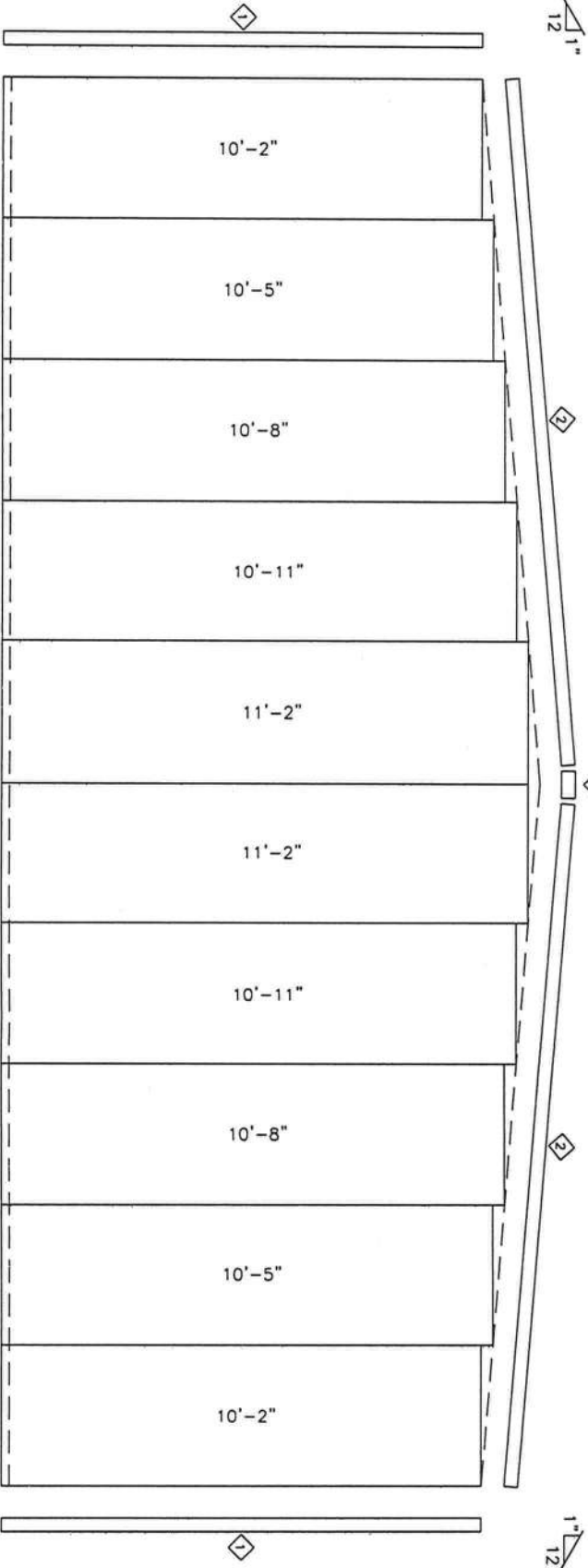
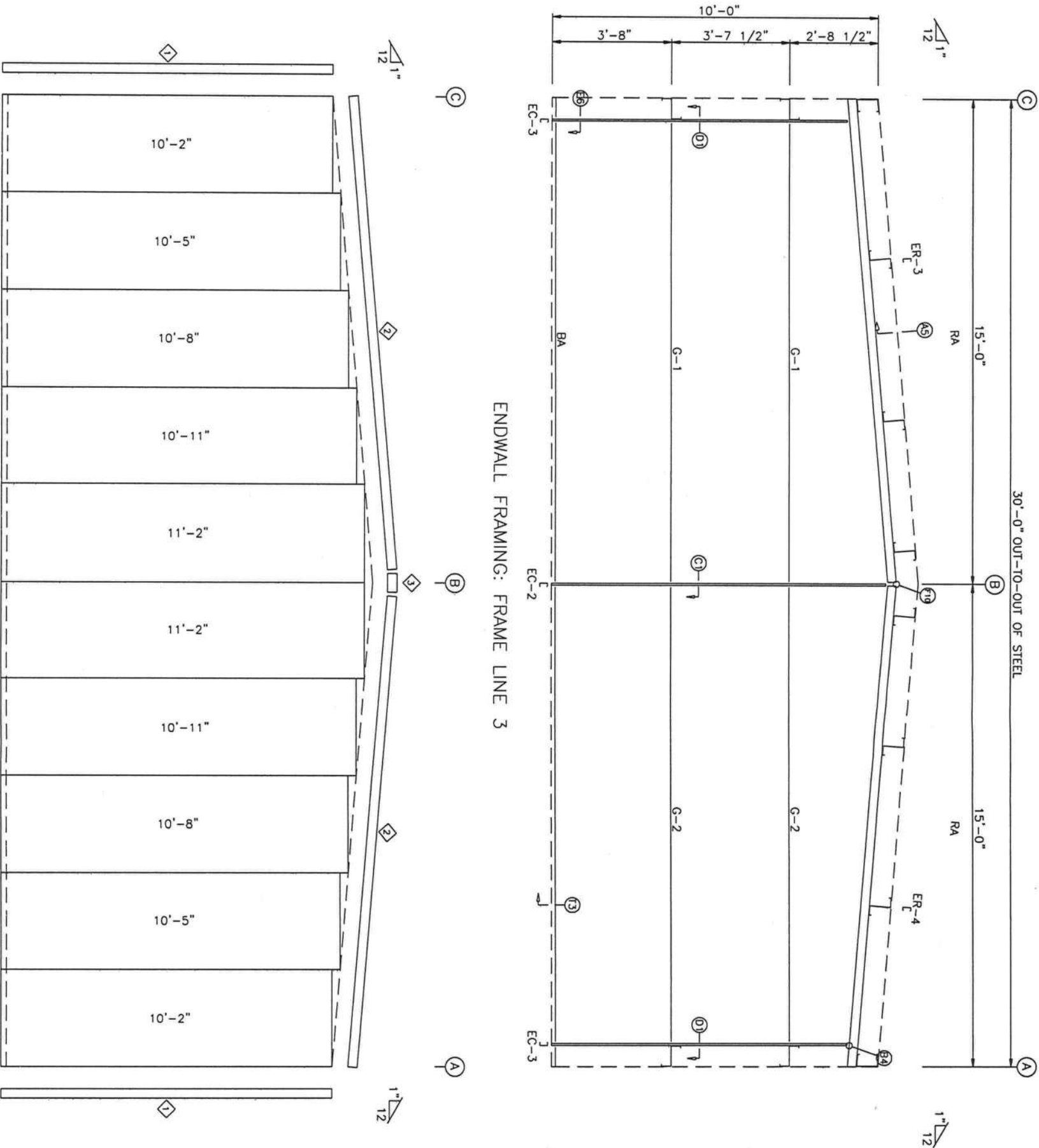
BOLT TABLE				
FRAME LINE 3				
LOCATION		QUAN	TYPE	DIA. LENGTH
ER-3/ER-4	4	A325	5/8"	1 3/4"
Cor-Column/Raf	4	A325	1 1/2"	1 1/4"
Int. Column/Rof	4	A325	5/8"	1 1/4"

TRIM TABLE			
FRAME LINE 3			
OID	MARK	LENGTH	DETAIL
1	CTR	10'-2"	TRIM-29
2	VRT	15'-4"	TRIM-11
3	VPB	1'-4"	TRIM-39

MEMBER TABLE			
FRAME LINE 3			
MARK	PART	LENGTH	
EC-2	8x35C16	9'-6 11/16"	
EC-3	8x35C16	8'-7 5/8"	
ER-3	8x35C14	15'-0 5/8"	
ER-4	8x35C14	15'-0 5/8"	
G-1	8X25Z16	14'-0 5/8"	
G-2	8X25Z16	13'-8 1/2"	



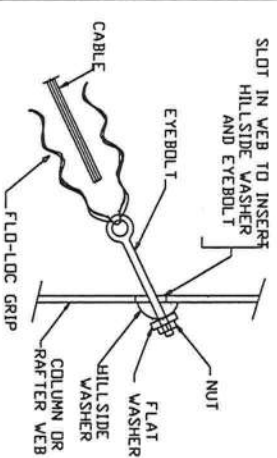
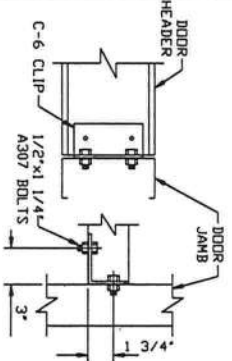
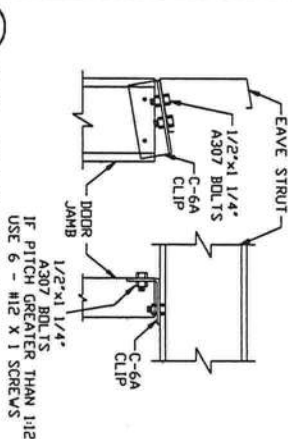
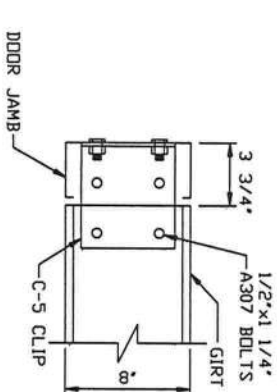
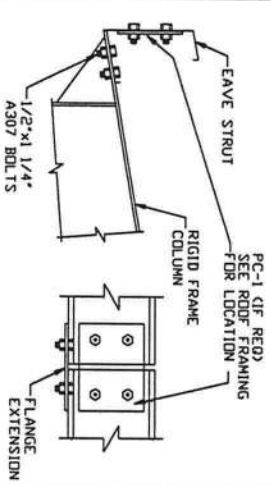
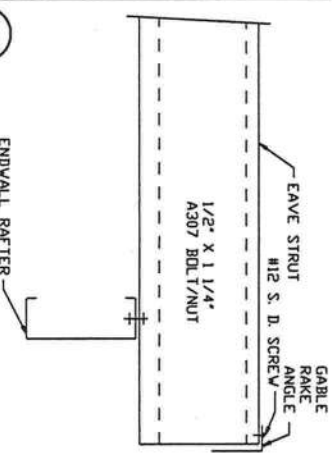
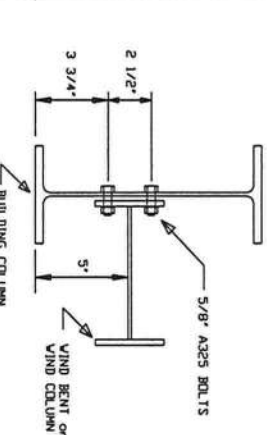
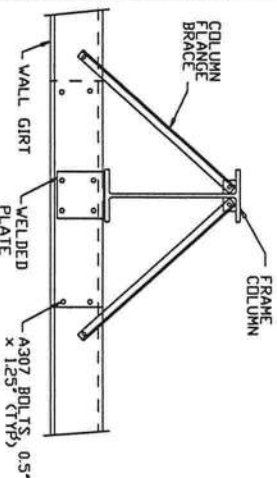
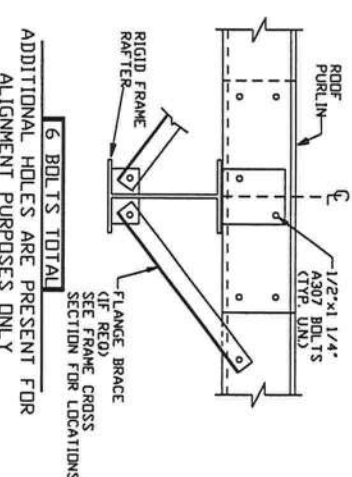
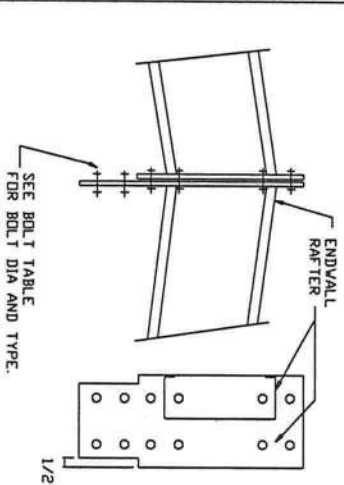
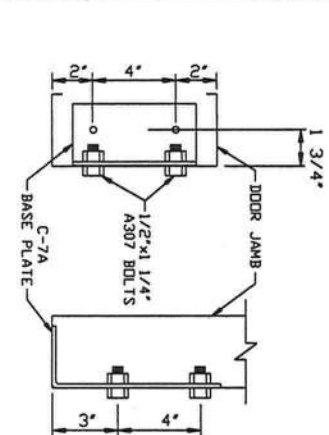
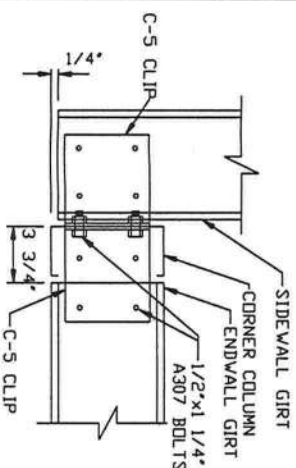
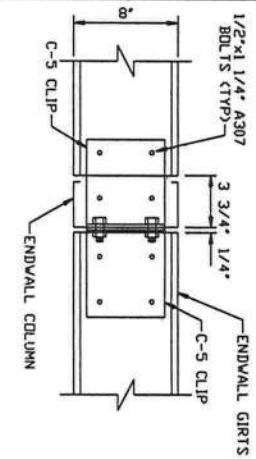
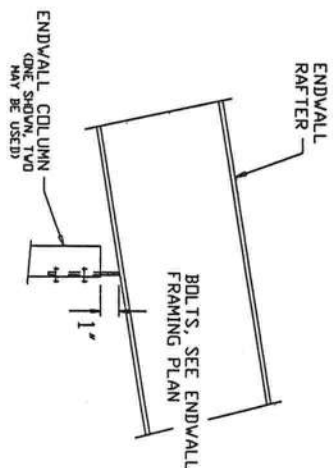
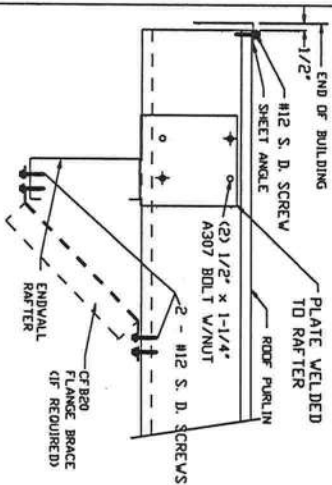
F10 RAFTER SPLICE AT SURFACE CHANGE



GENERAL NOTES:
(1.) IF CABLE BRACING FOR END WALL IS NOT SHOWN ON ERECTION DRAWINGS IT HAS BEEN DETERMINED THAT DIAPHRAGM PANEL ACTION IS SUFFICIENT TO RESIST LONGITUDINAL FORCES. TEMPORARY BRACING SHOULD BE PROVIDED BY ERECTOR UNTIL ALL WALL AND ROOF PANELS ARE INSTALLED.

REVISIONS						DRAWING STATUS					
REV.	DESCRIPTION	DATE	DLR	DATE	CHKR	APPD	[] FOR CONSTRUCTION	[X] FOR PERMIT ONLY	[] FOR APPROVAL	[] OTHER, EXPLAIN	

VULCAN STEEL STRUCT.			MIKE TODD CONSTRUCTION		
PROJECT	3000' x 400 x 100	ENDWALL FRAMING	DESIGN: MJF	DRAFT: PK	CHECK: DB
PROJECT	19076		DATE: 9/23/08	SHEET	8
PROJECT	FORT WHITE, FL 32038	ADDRESS			



REVISIONS

REV.	DESCRIPTION	DATE	DLR	DATE	CHKR	APPD

DRAWING STATUS
[] FOR CONSTRUCTION
[X] FOR PERMIT ONLY
[] FOR APPROVAL
[] OTHER, EXPLAIN

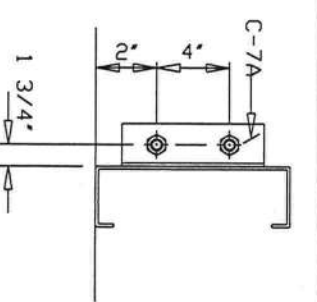
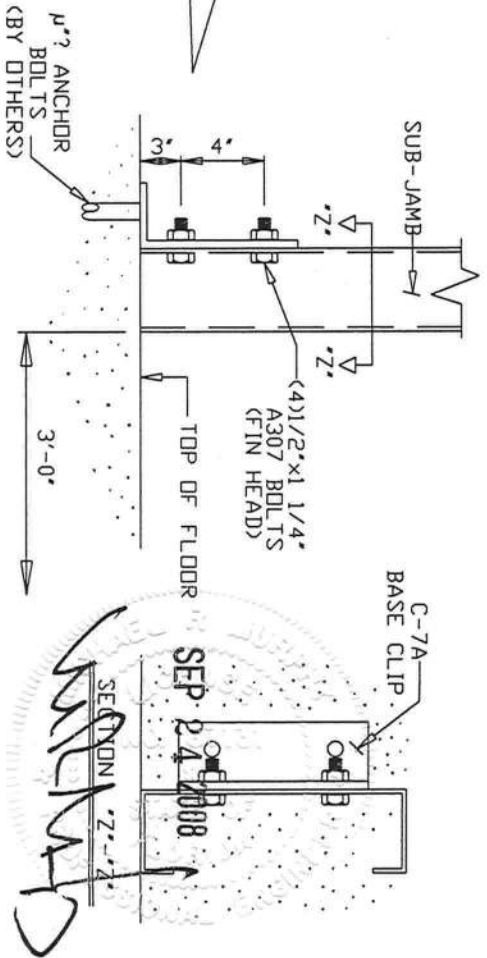
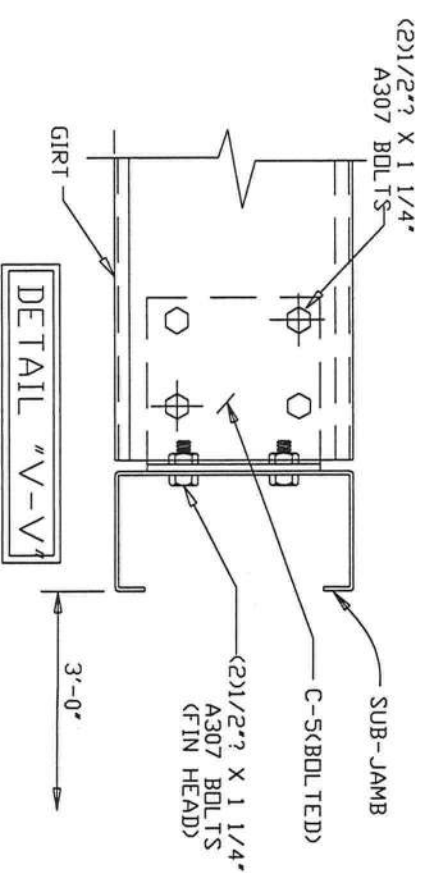
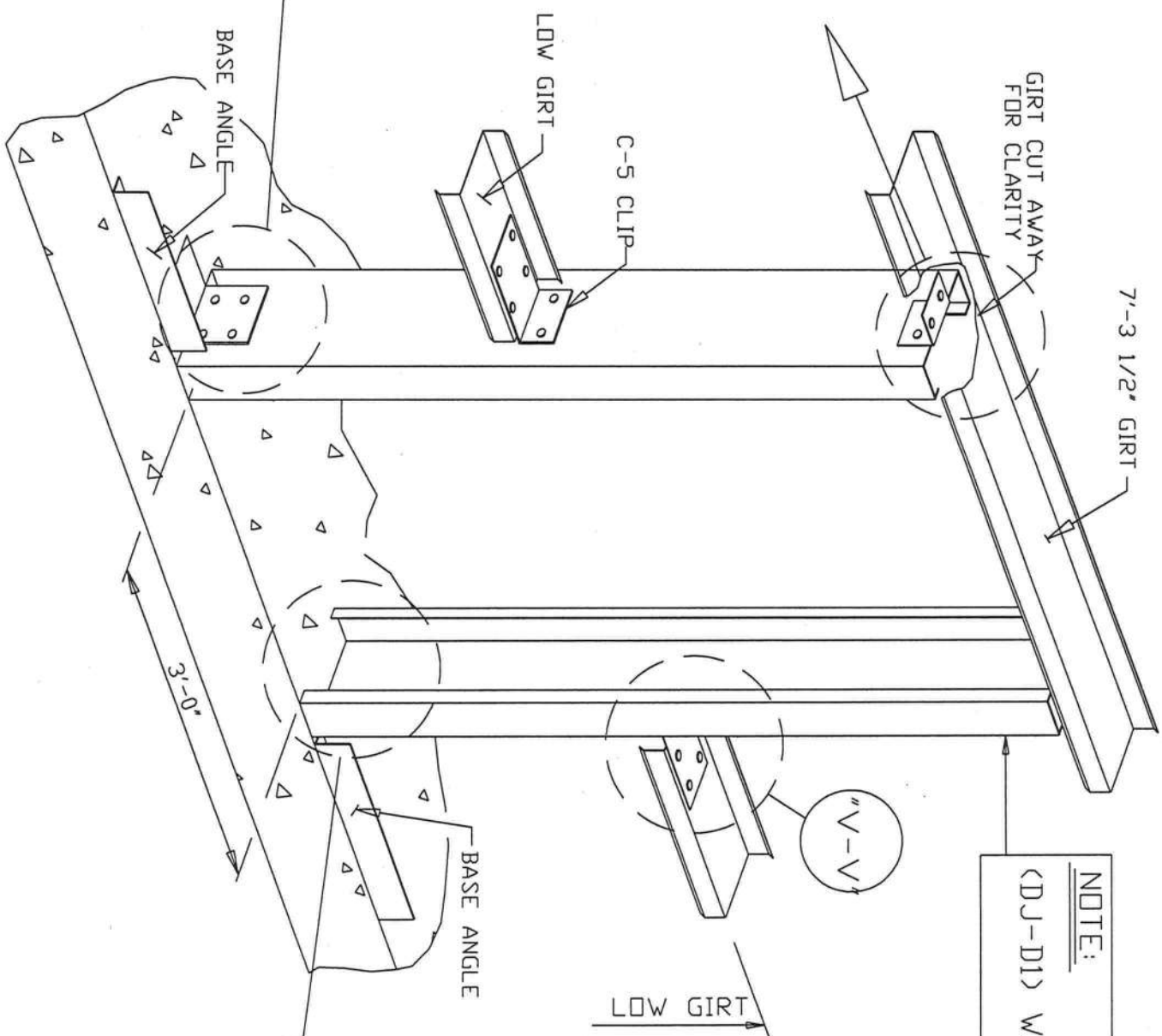
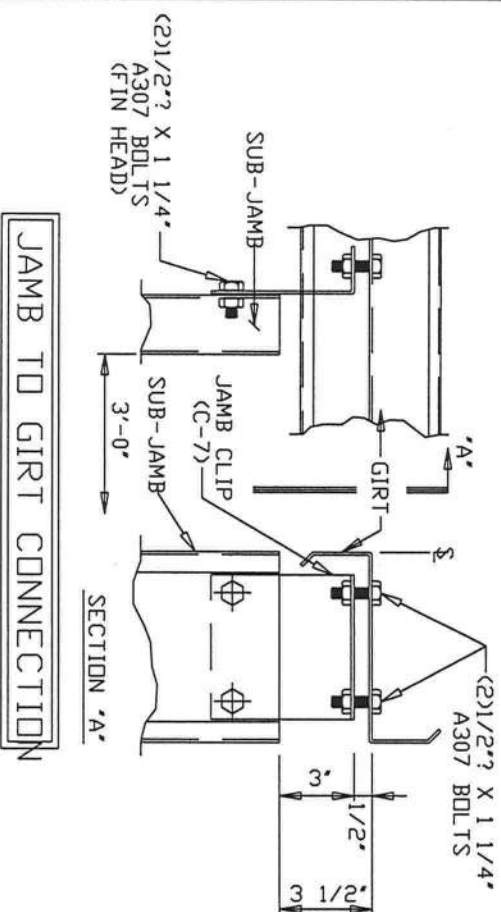
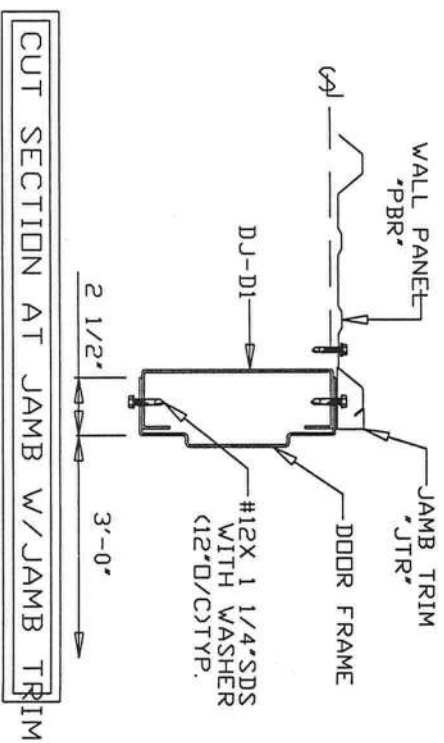
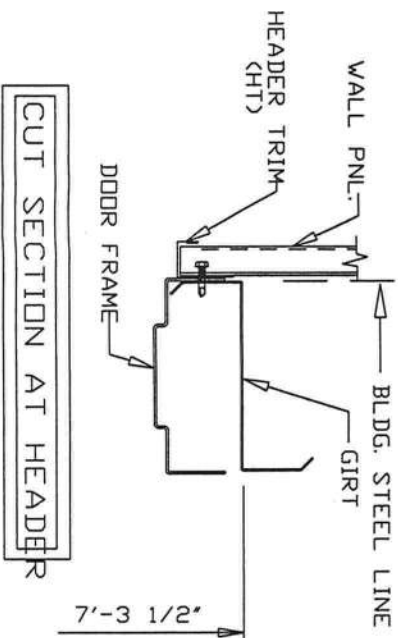
VULCAN STEEL STRUCT.
PROJECT 3000' x 400 x 100
ID 19076
PROJECT FORT WHITE, FL 32038
ADDRESS

MIKE TODD CONSTRUCTION
Detail Page
DESIGN: MJF
DATE: 9/23/08

SEAL

SEP 24 2008

- NOTES:
1. SEE DETAILS FOR BOLT AND FRAMING REQUIREMENTS.
 2. FIELD CUT AND WORK GIRTS, PANELS, AND TRIM AS REQUIRED.
 3. THIS DRAWING IS TO BE USED IN CONJUNCTION WITH THE INSTALLATION INSTRUCTIONS PROVIDED BY THE ACCESSORY MANUFACTURER.
 4. SUB-JAMBS FOR WALK DOORS ARE OPTIONAL UNLESS LOW GIRTS ARE PRESENT.



(2)1/2" ANCHOR BOLTS

REVISIONS

REV.	DESCRIPTION:	DATE	DLR	DATE	CHKR	APPD

DRAWING STATUS

[] FOR CONSTRUCTION
[*] FOR PERMIT ONLY
[] FOR APPROVAL
[] OTHER, EXPLAIN

PROJECT VULCAN STEEL STRUCT.

ID 30.00' x 40.0 x 10.0

PROJECT 19076

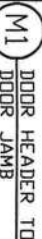
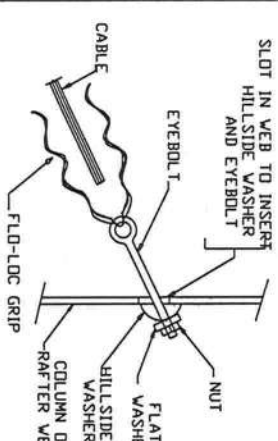
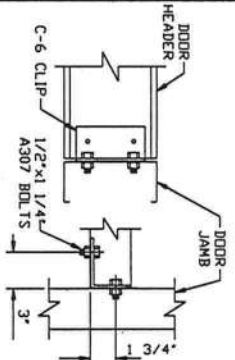
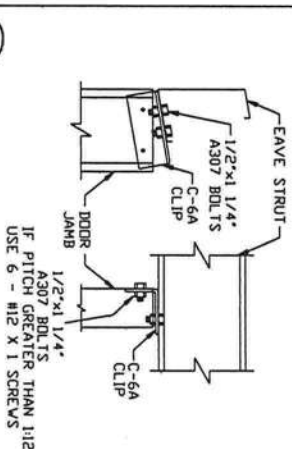
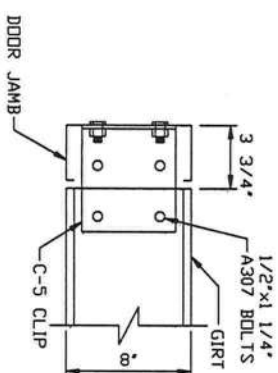
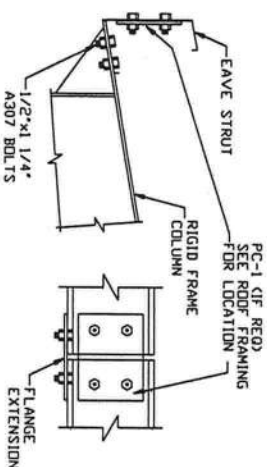
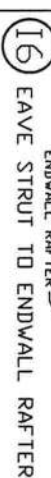
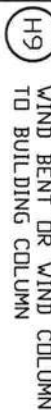
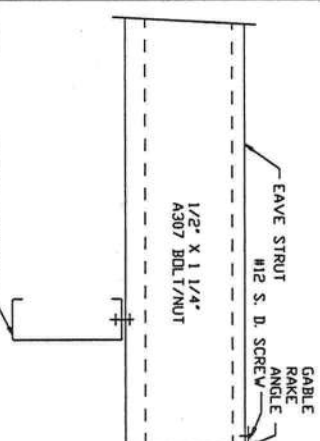
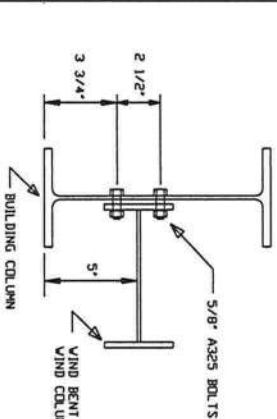
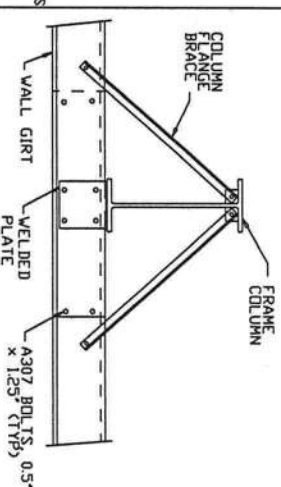
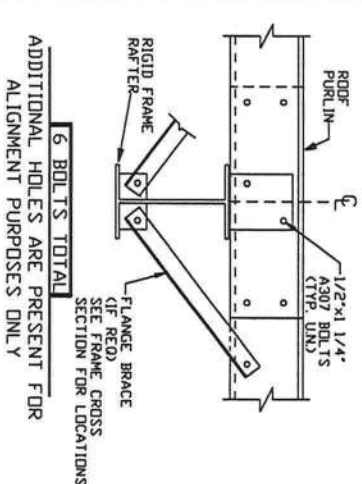
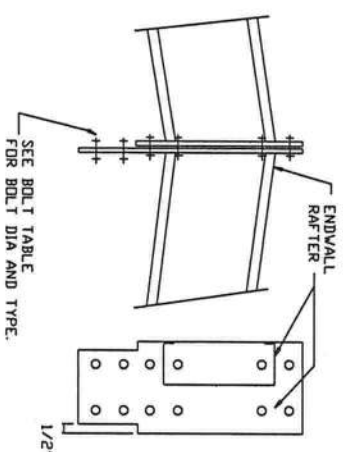
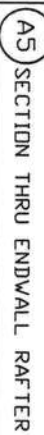
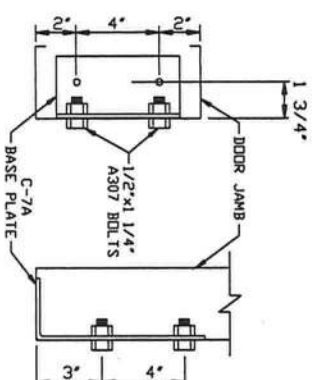
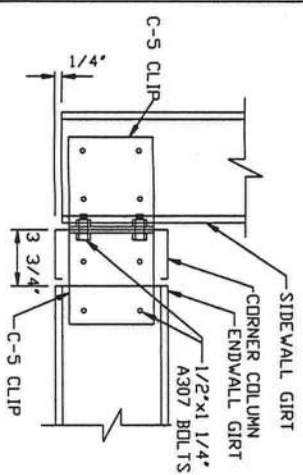
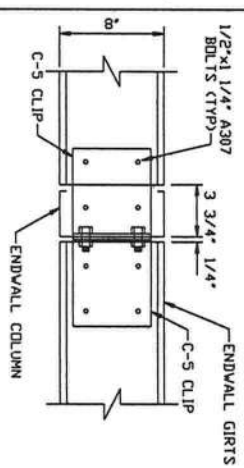
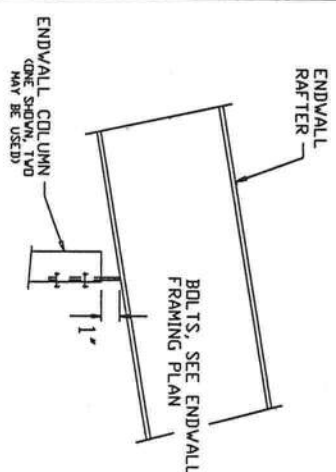
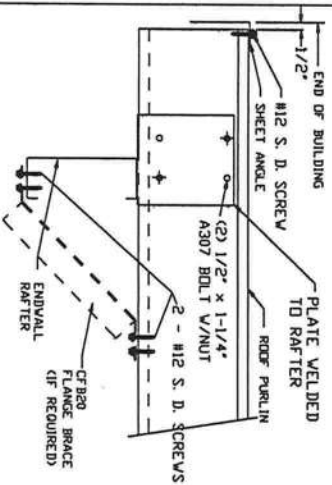
ADDRESS FORT WHITE, FL 32038

WALK DOOR SUB-JAMBS DETAIL

MIKE TODD CONSTRUCTION

DESIGN: MJF DRAFT: PK CHECK: DB

DATE: 9/23/08 SHEET 11



REVIEWS							DRAWING STATUS							VULCAN STEEL STRUCT.							MIKE TODD CONSTRUCTION						
REV.	DESCRIPTION	DATE	DLTR	DATE	CHKR	APPD	☐ FOR CONSTRUCTION	☒ FOR PERMIT ONLY	☐ FOR APPROVAL	☐ OTHER, EXPLAIN	-----						PROJECT	3000' x 400 x 100	Detail Page		DESIGN: MJF	DRAFT: PK	CHECK: DB				
																	ID	19076									
																	PROJECT	FORT WHITE, FL 32038			DATE: 9/23/08	SHEET 9					

SEAL

SEP 24 2006

MIKE TODD CONSTRUCTION

Detail Page		
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DESIGN: MUF	DRAW: FK	CHECK: DL
DATE: 9/23/08	SHEET	9

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