

CURRY-RIEHL & ASSOC.

1668 Gleneagles Blvd
Billings, MT 59105
(406) 256-3699
Fax 259-2901

January 5, 2012

AGATE
attn: Pete
PO Box 117
Scottsdale, AZ 85252

RE: Wall Braces
Gila County Waste Building Globe, AZ
Job # M11013

Dear Pete,

Per our discussion this morning, this building was initially designed with the (2) overhead doors on the same side on Grid C. Then there was a wall X-brace located on Grid A in one bay. Apparently it was been changed to having (1) overhead door on Grid A and (1) on Grid C opposite from each other. That would leave a good amount of solid wall on each side to resist the longitudinal loads on the building. This building would have about 1200# of shear along Grid line A & C.

If you have 12' of solid wall along Grid lines A & C, the X-brace can be omitted from those walls.

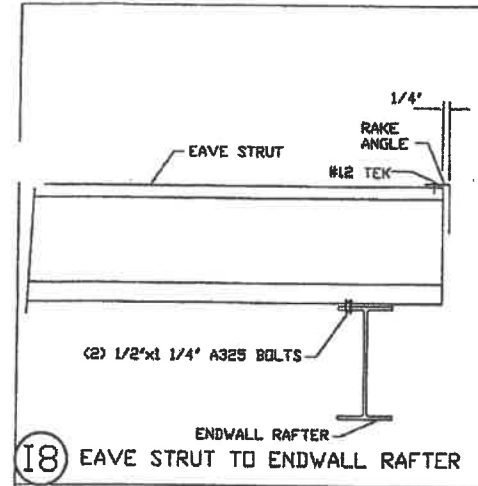
If you have any questions, please call.

Sincerely,

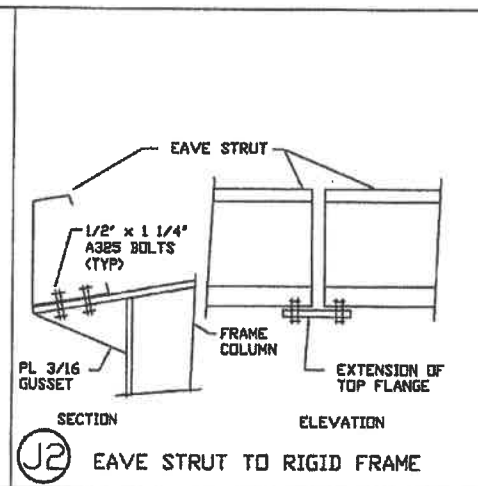


Ben J. Riehl, PE

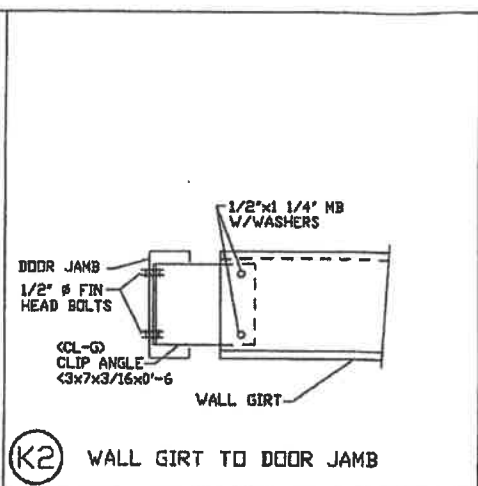




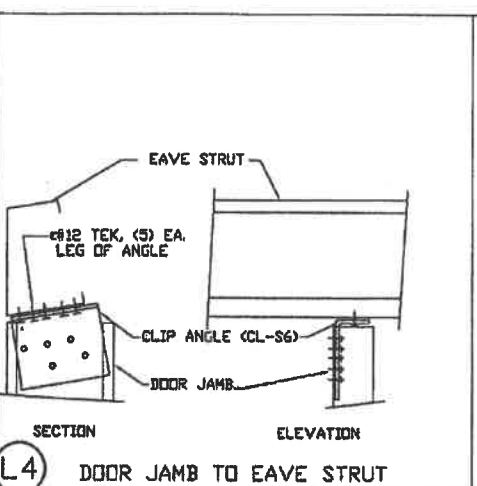
18 EAVE STRUT TO ENDWALL RAFTER



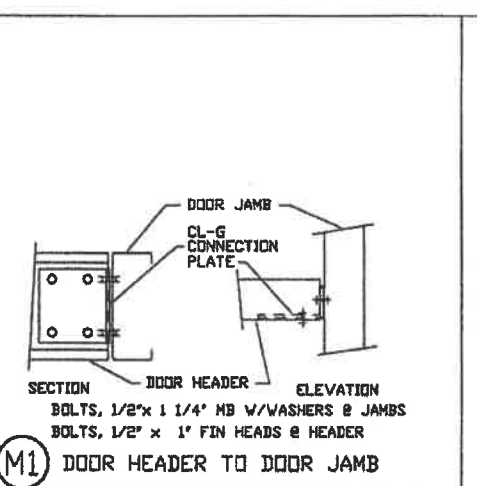
J2 EAVE STRUT TO RIGID FRAME



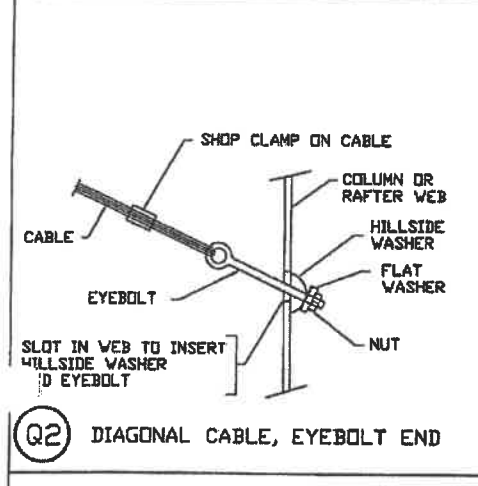
K2 WALL GIRTS TO DOOR JAMB



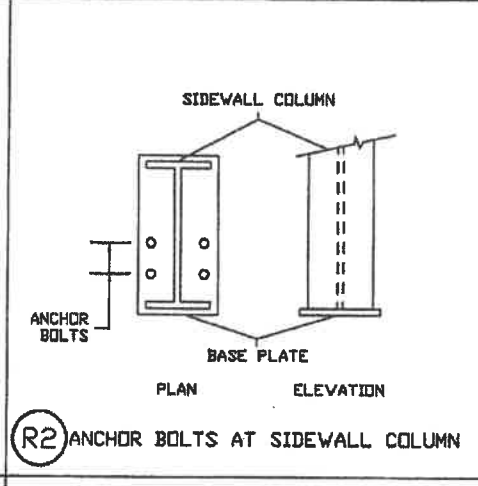
L4 DOOR JAMB TO EAVE STRUT



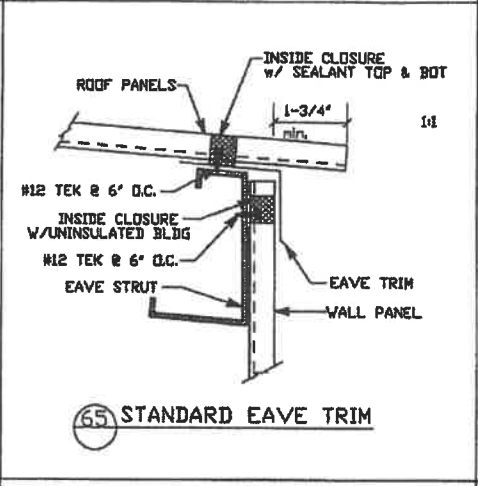
M1 DOOR HEADER TO DOOR JAMB



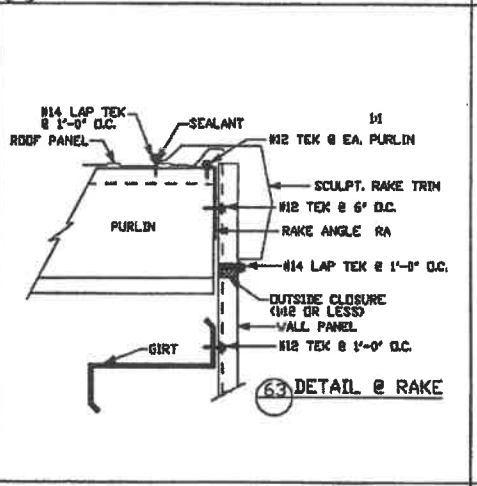
Q2 DIAGONAL CABLE, EYEBOLT END



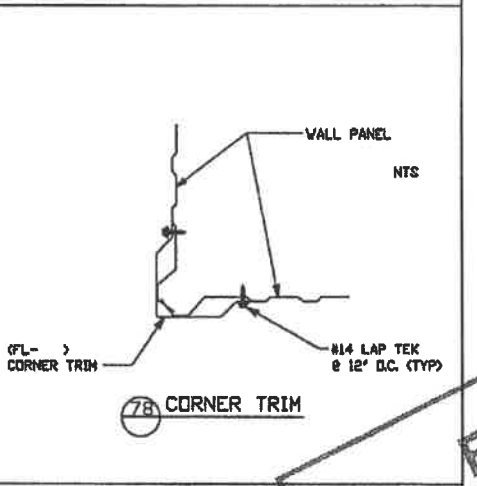
R2 ANCHOR BOLTS AT SIDEWALL COLUMN



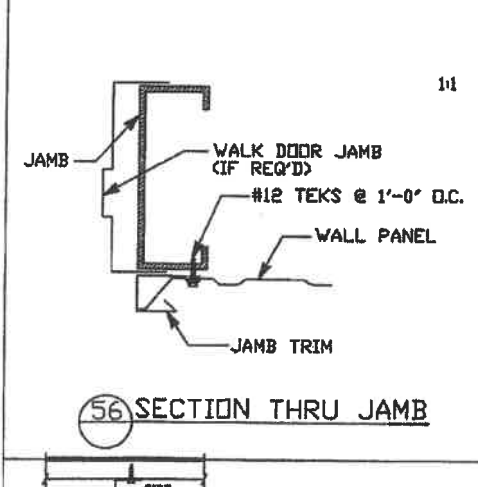
65 STANDARD EAVE TRIM



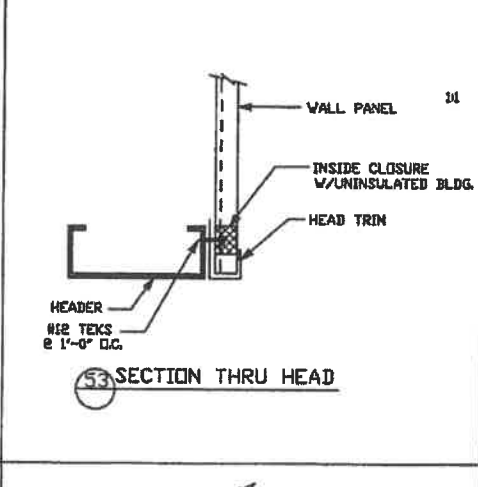
63 DETAIL @ RAKE



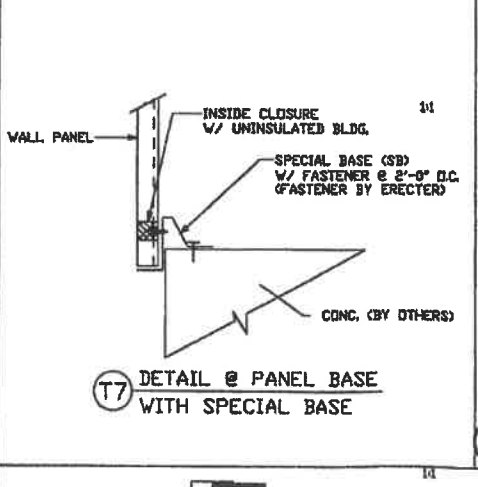
78 CORNER TRIM



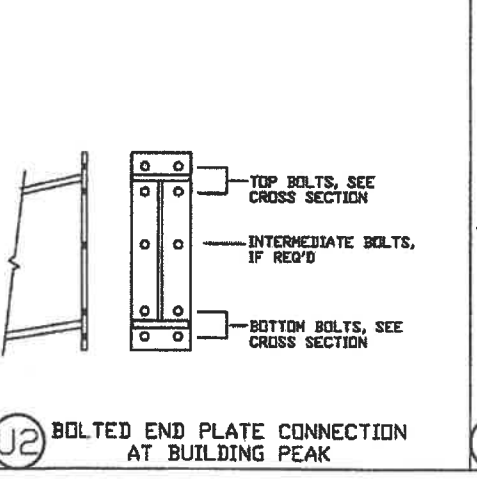
56 SECTION THRU JAMB



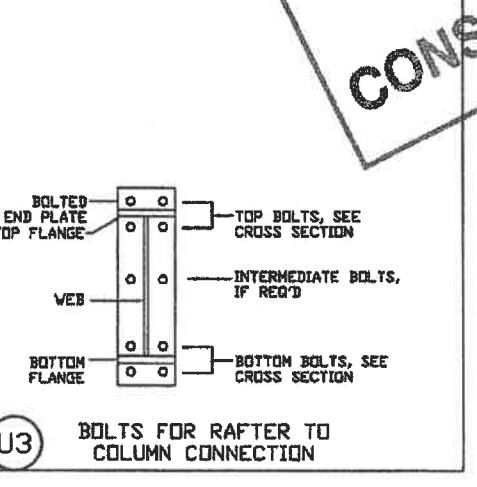
53 SECTION THRU HEAD



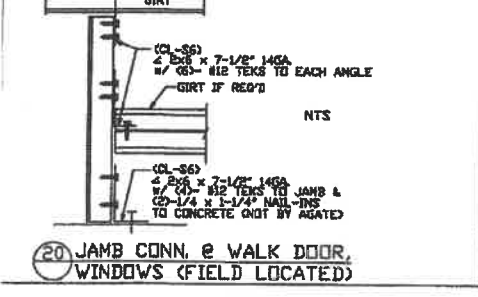
T7 DETAIL @ PANEL BASE WITH SPECIAL BASE



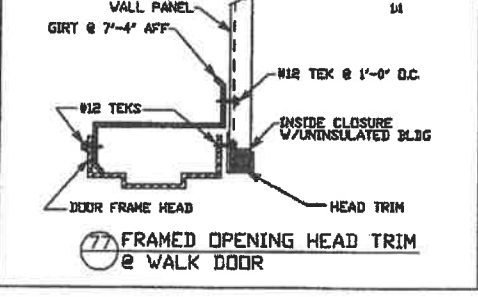
U2 BOLTED END PLATE CONNECTION AT BUILDING PEAK



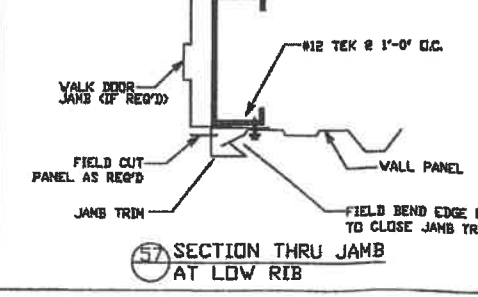
U3 BOLTS FOR RAFTER TO COLUMN CONNECTION



20 JAMB CONN. @ WALK DOOR, WINDOWS (FIELD LOCATED)



77 FRAMED OPENING HEAD TRIM @ WALK DOOR



57 SECTION THRU JAMB AT LOW RIB

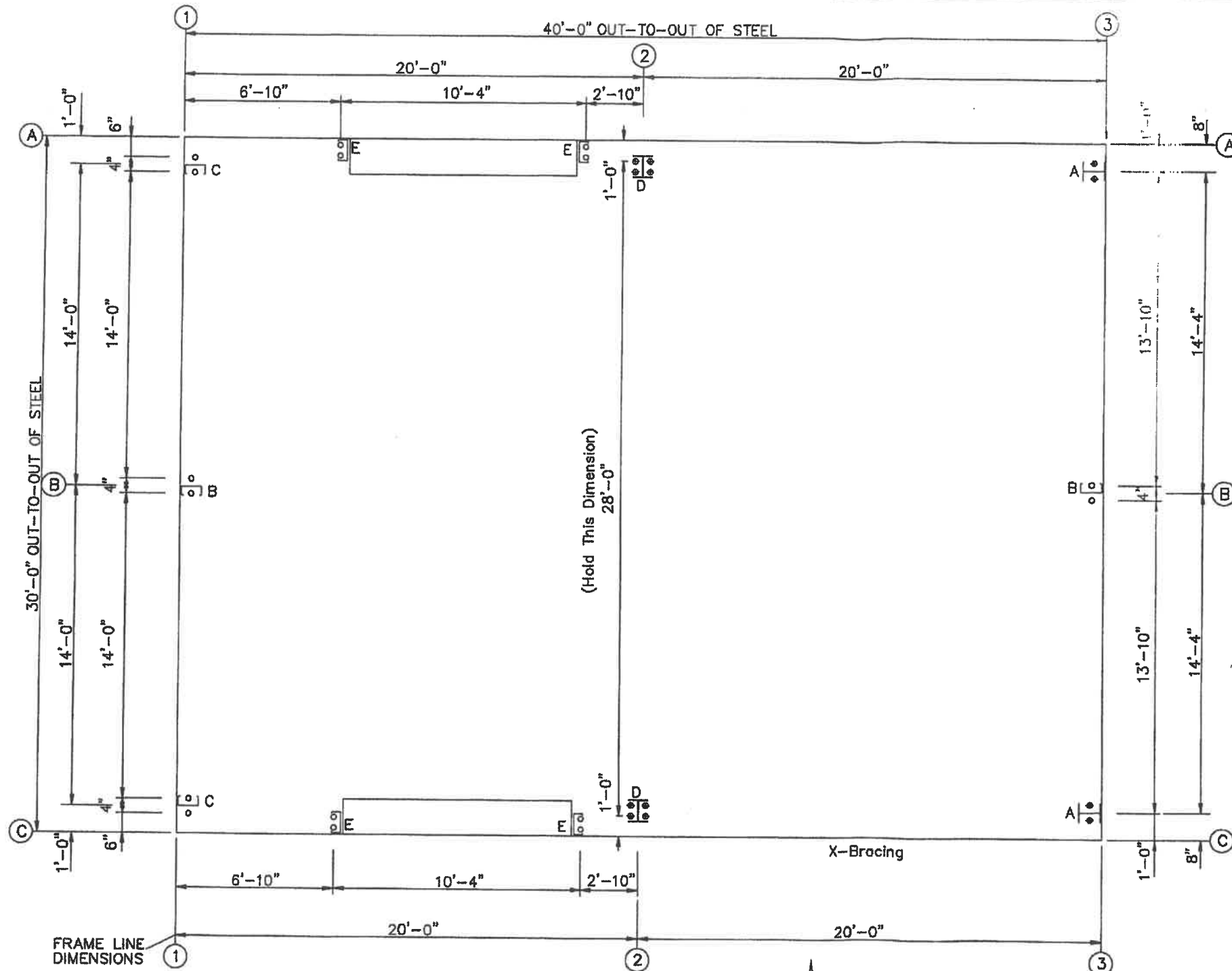
FOR CONSTRUCTION



AISC CERTIFIED FABRICATOR AND ERECTOR



DATE: 11/24/11	FOR CONSTRUCTION
DATE:	
DATE:	
DATE: 5/9/11	FOR APPROVAL
AGATE STEEL BUILDINGS	
GILA COUNTY	
PROJECT: GILA COUNTY	DETAIL DRAWINGS: ID: M11013
PROJECT ADDRESS: 5515 S APACHE AVE GLOBE, AZ 85501	SHEET 11 OF 11



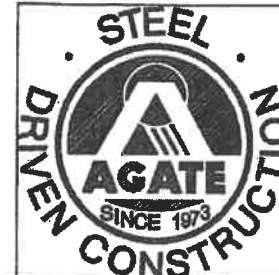
○ Dia= 1/2"
 ⊕ Dia= 3/4"



**FOR
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ANCHOR BOLT PLAN
 NOTE: All Base Plates @ 100'-0" (U.N.)



DATE: 11/24/11	FOR CONSTRUCTION
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AGATE STEEL BUILDINGS	
GILA COUNTY	ANCHOR BOLT PLAN & DET
PROJECT GILA COUNTY	ID M11013
PROJECT ADDRESS 5515 S APACHE AVE GLOBE, AZ 85501	SHEET 2 OF 11

GENERAL NOTES

- ALL WELDS PER AWS E70xx ELECTRODES. ALL BOLTS A307, UNLESS NOTED OTHERWISE. ALL A325 BOLTS TO HAVE WASHERS AND TO BE DESIGNED AS BEARING TYPE WITH THREADS INCLUDED.
- ALL STEEL A36, UNLESS NOTED OTHERWISE.
 - Fy = 35 KSI ROUND PIPES
 - Fy = 50 KSI HOT-ROLLED MILL SHAPES
 - Fy = 48 KSI STRUCTURAL RECT. TUBES
 - Fy = 36 KSI WELDED SHAPE WEBS
 - Fy = 50 KSI WELDED SHAPE FLANGES & CONNECTION PLATES
 - Fy = 57 KSI COLD-FORMED C's & Z's
 - Fy = 80 KSI ROOF AND WALL PANELS

BRACING REACTIONS, PANEL SHEAR

Wall Loc	Col Line	± Reactions (k)				Panel Shear (lb/ft)
		Wind Horz	Wind Vert	Seismic Horz	Seismic Vert	
L_EW	1					62
F_SW	C	Torsional Bracing Used				38
R_EW	3					
B_SW	A	2.1	2.3	1.2	0.3	0.2

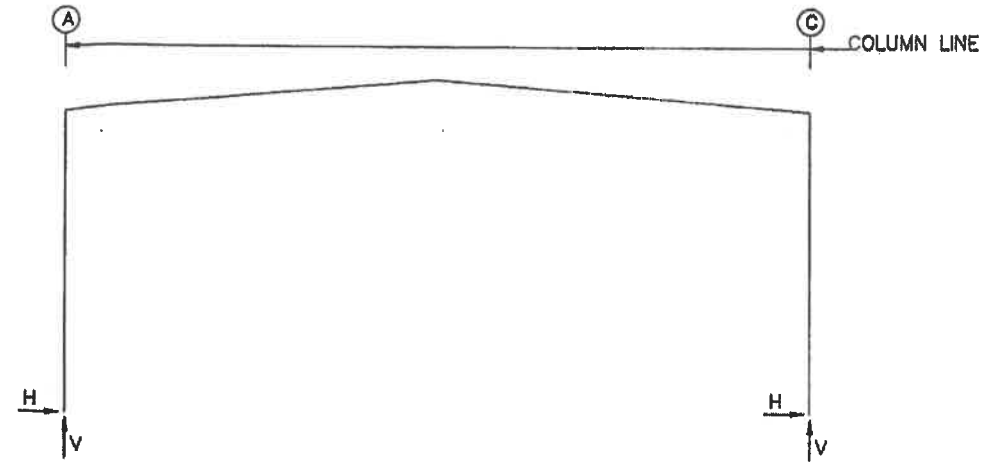
ENDWALL COLUMN REACTIONS(k)

MAXIMUM VERTICAL DL+CL+LL = 4.2
 MAXIMUM VERTICAL DL+WL = -1.7
 MAXIMUM HORIZONTAL DL+WL = 1.2

ANCHOR BOLT SUMMARY
 GR36 w/STD HEAD OR NUT @ BTM

Qty	Loc	Dia (in)	Type	Total Len (in)	Proj (in)
8	DJ	1/2"	F1554	8.00	2.00
8	EW	1/2"	F1554	8.00	2.00
4	EW	3/4"	F1554	16.0	3.00
8	RF	3/4"	F1554	16.0	3.00

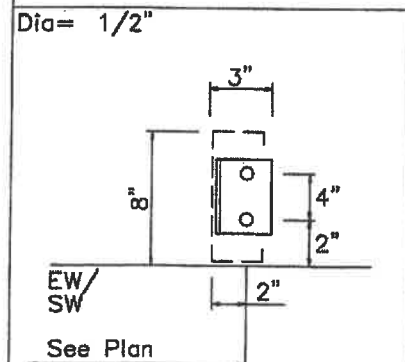
FRAME LINES: 2



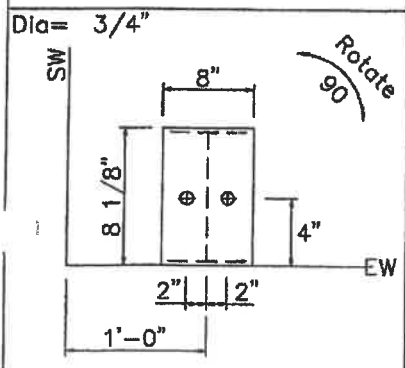
RIGID FRAME: MAXIMUM REACTIONS, ANCHOR BOLTS, & BASE PLATES

Frm Id	Col Line	Load Id	Hmax H	Column Reactions (k)			Anc. Bolt No	D(in)	Base Plate (in)			Grout (in)	
				V Vmax	Load Id	Hmin H			V Vmin	Wid	Len		Thk
1*	A	1	2.9	9.4	2	-2.9	-2.7	4	0.750	8.000	12.75	0.375	0.0
1*	C	3	2.9	-2.7	1	-2.9	9.4	4	0.750	8.000	12.75	0.375	0.0
		1	-2.9	9.4	5	1.0	-6.2						

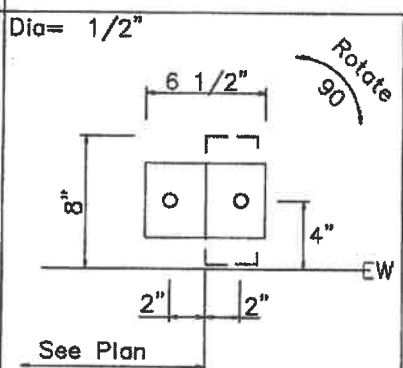
1* Frame lines: 2



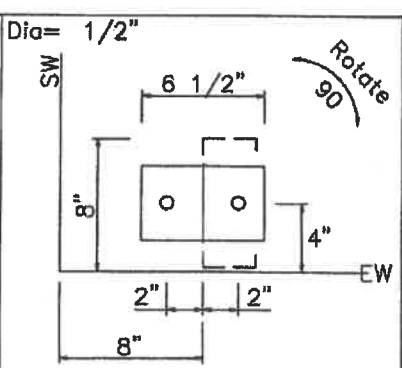
DETAIL E



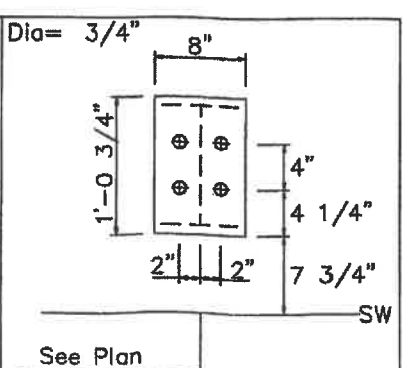
DETAIL A



DETAIL B



DETAIL C



DETAIL D



FOR CONSTRUCTION



DATE: 11/24/11	FOR CONSTRUCTION
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DATE: 5/9/11	FOR APPROVAL
AGATE STEEL BUILDINGS	
GILA COUNTY	ANCHOR BOLT DET & REAC
PROJECT: GILA COUNTY	ID: M11013
PROJECT ADDRESS: 5515 S APACHE AVE GLOBE, AZ 85501	SHEET 3 OF 11

MEMBER TABLE	
ROOF PLAN	
MARK	PART
P-1	8X25Z16
E-1/1X	8E14
E-2/2X	8E14
CB-3	0.31_CBL
CB-4	0.31_CBL

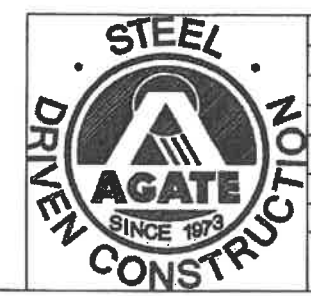


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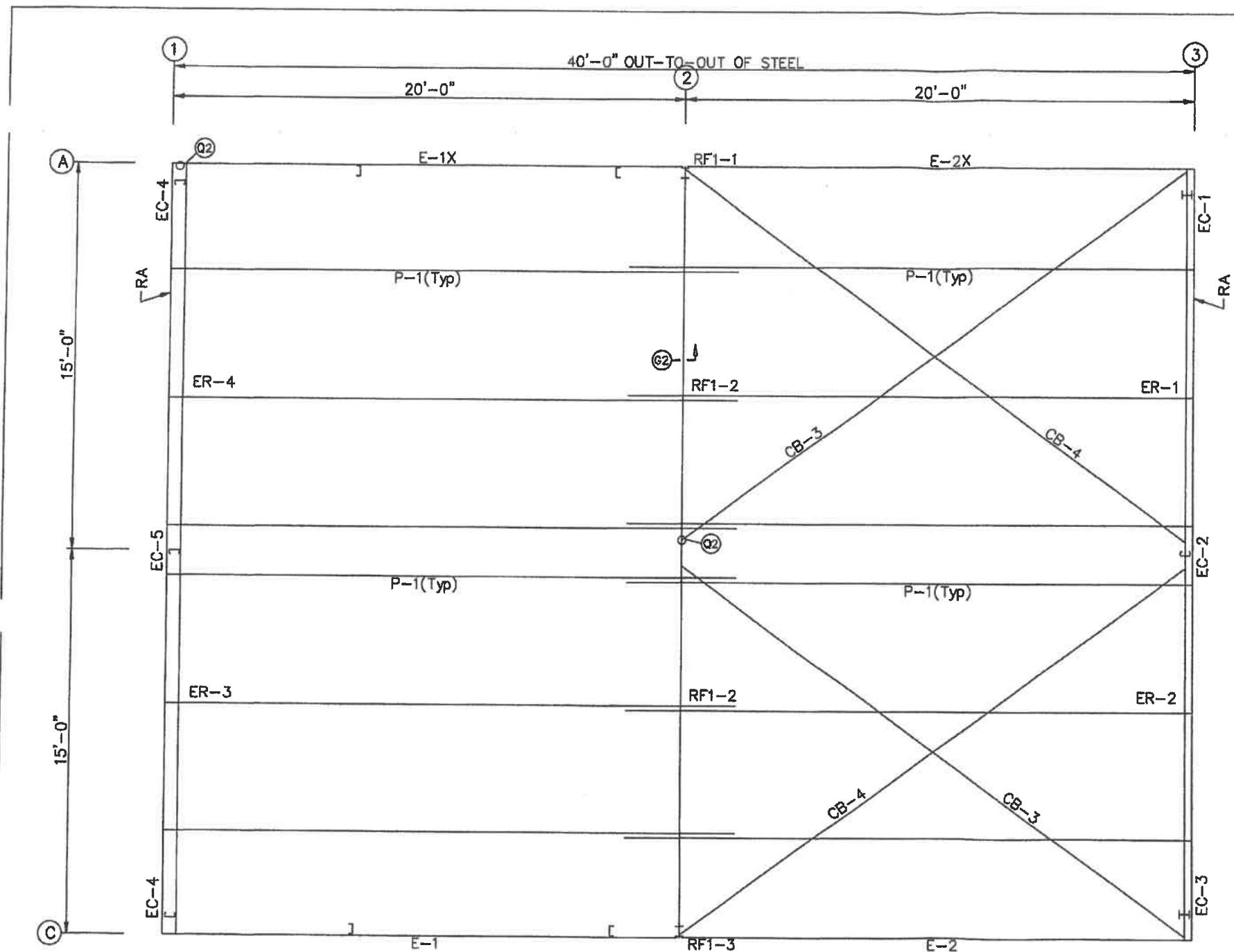
**FOR
CONSTRUCTION**

PANELS: 26 Gs. PBR - Galvalume/Plain

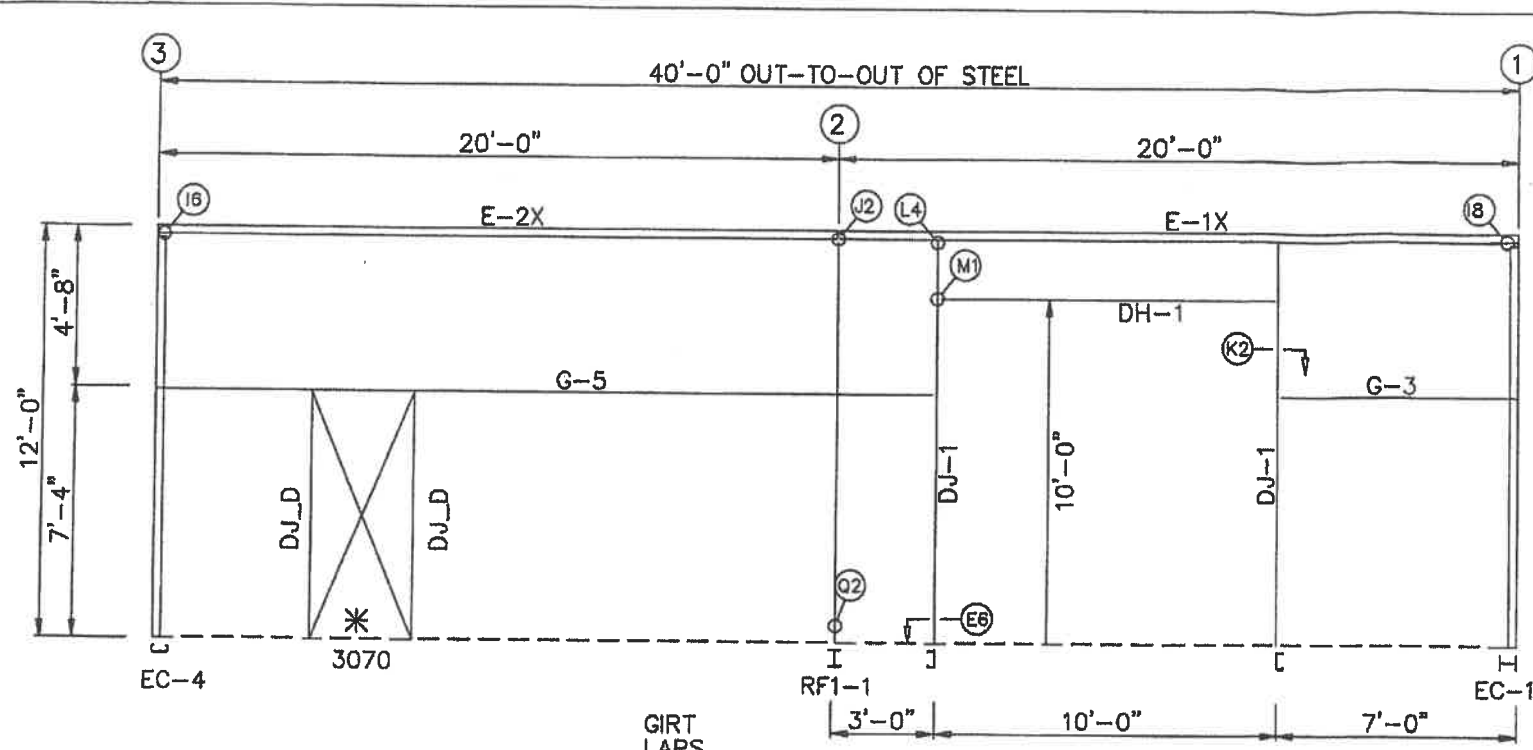
ROOF SHEETING



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AGATE STEEL BUILDINGS	
GILA COUNTY	
PROJECT	GILA COUNTY
PROJECT ADDRESS	5515 S APACHE AVE GLOBE, AZ 85501
ROOF FRAMING ID	M11013
SHEET 4 OF 11	



ROOF FRAMING PLAN



NORTH SIDEWALL FRAMING: FRAME LINE A

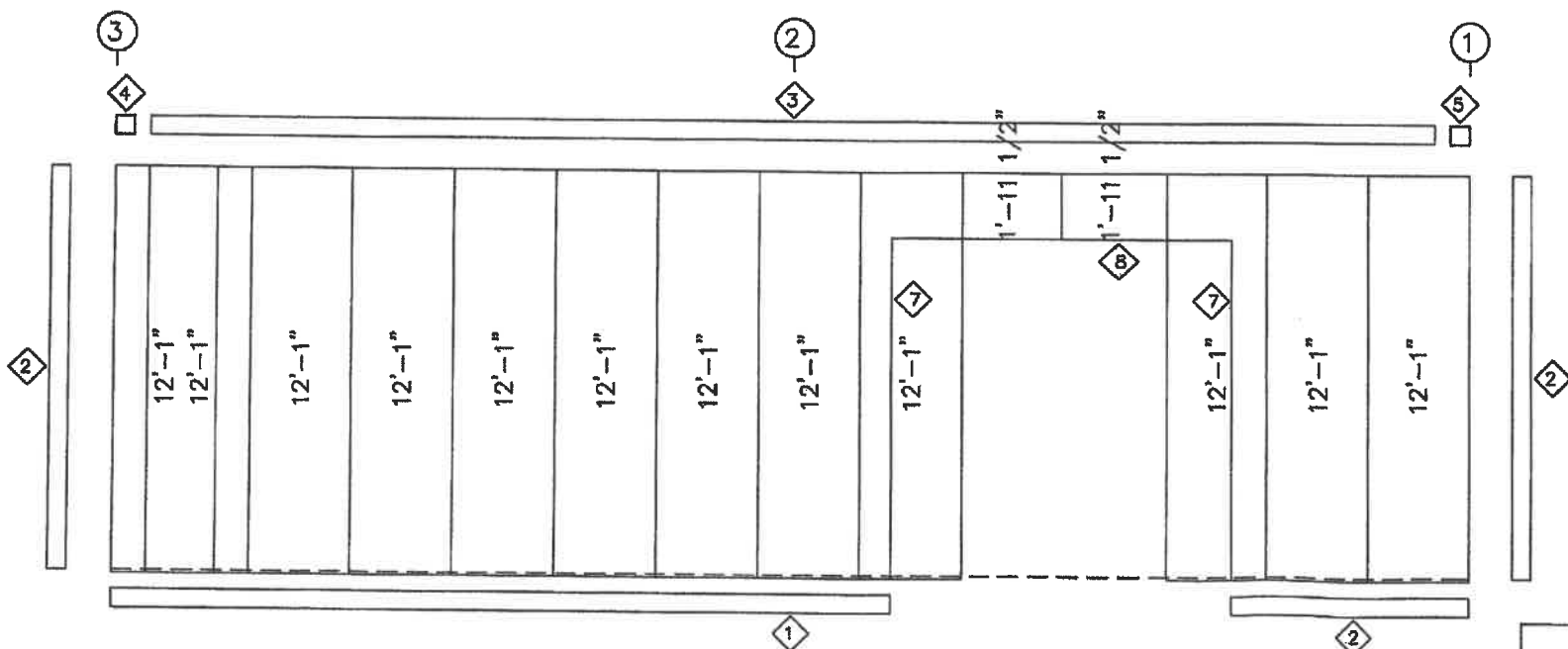
TRIM TABLE FRAME LINE C		
ID	MARK	DETAIL
1	SB	Det. T7
2	SB	Det. T7
3	FL-831	Det. 78
4	FL-19A	Det. 65
5	FL-16A	
6	FL-16A	Det. 65
7	FL-23	Det. 56
8	FL-26	Det. 53

MEMBER TABLE FRAME LINE A	
MARK	PART
DJ-1	8X25C16
DH-1	8X25C16
E-1X	8E14
E-2X	8E14
G-3	8X25Z16
G-5	8X25Z16

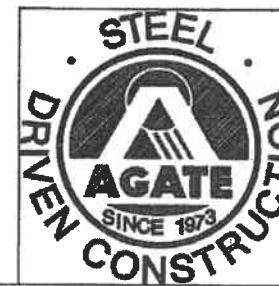


* FIELD LOCATED WALK DOORS
SEE DETAILS 20,56,57&77
FIELD CUT GIRTS AS REQ'D

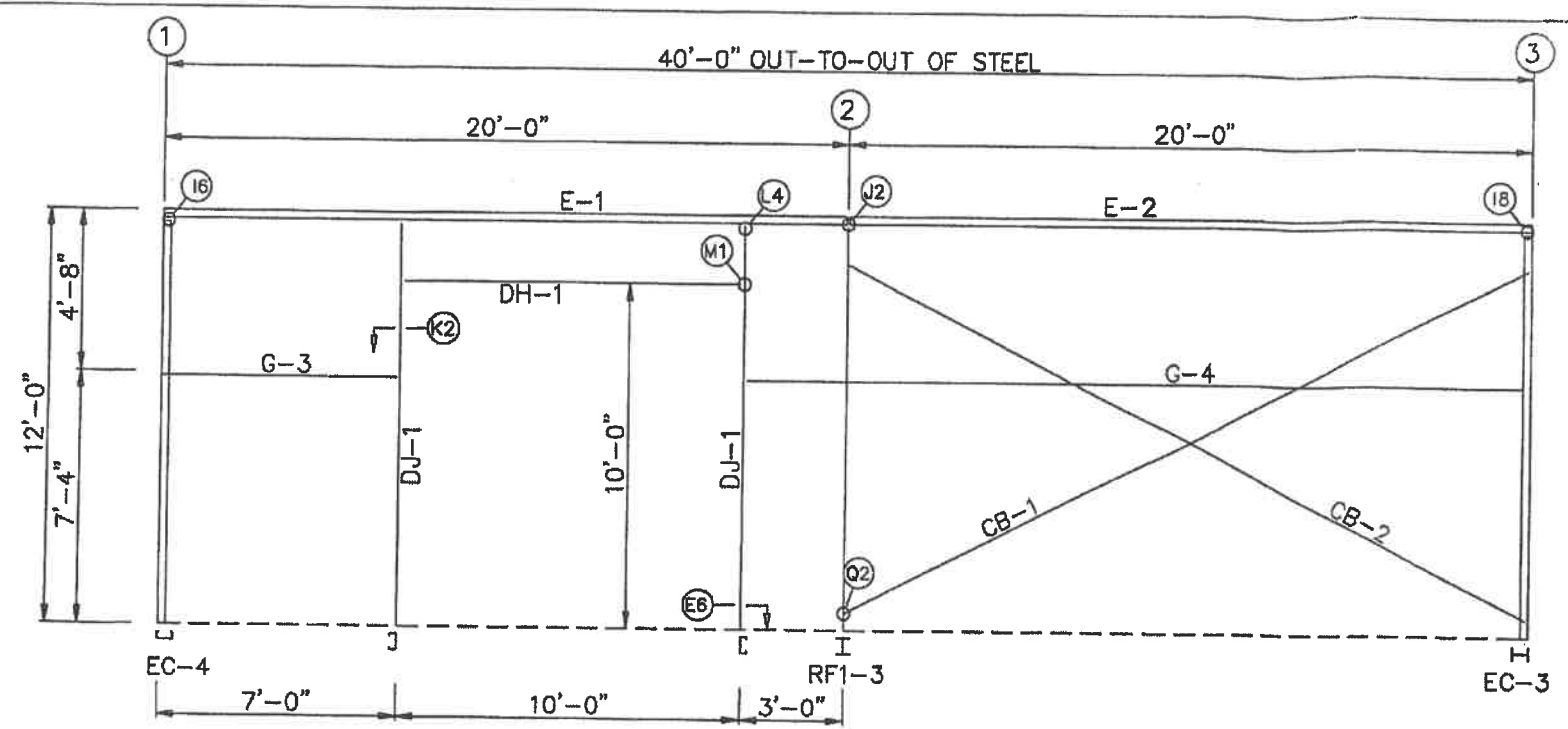
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CONSTRUCTION**



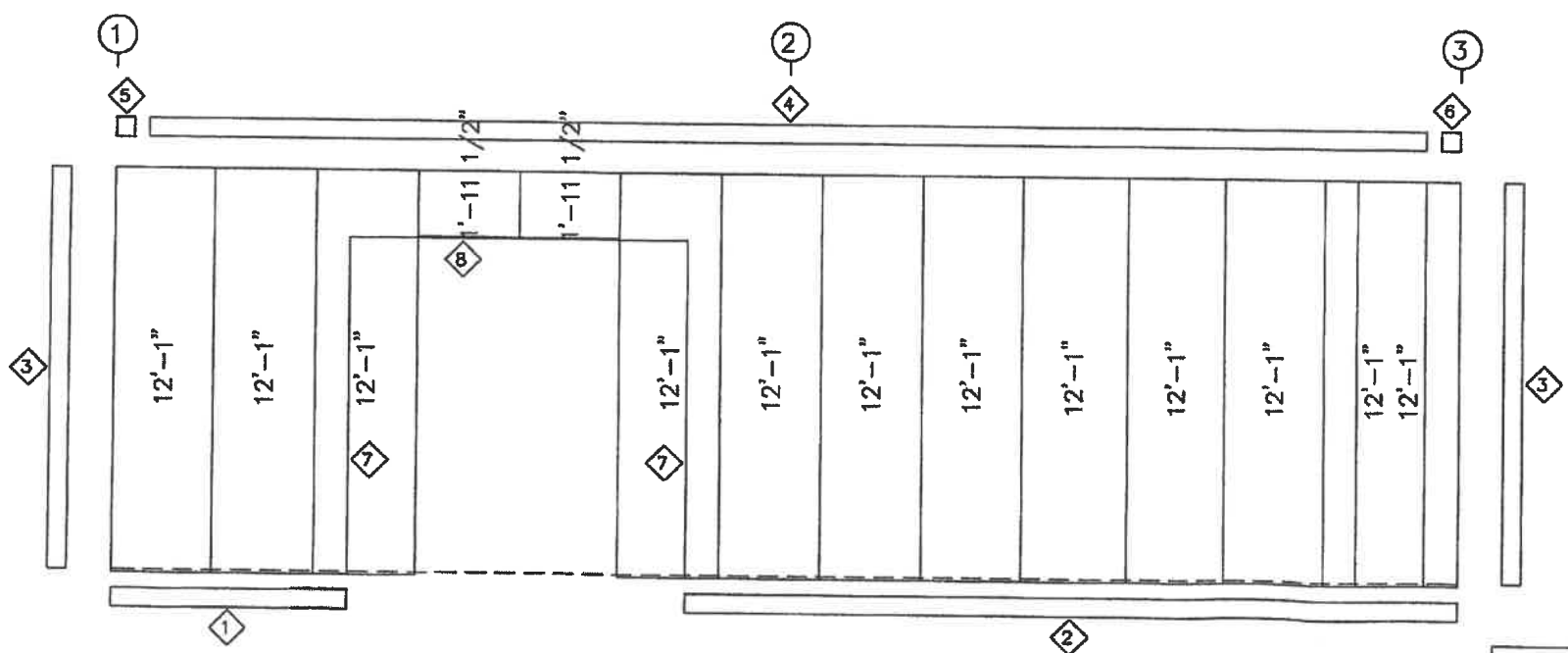
NORTH SIDEWALL SHEETING & TRIM: FRAME LINE A
PANELS: 26 Ga. PBR - LIGHT STONE



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AGATE STEEL BUILDINGS	
GILA COUNTY	
PROJECT	GILA COUNTY
PROJECT ADDRESS	5515 S APACHE AVE GLOBE, AZ 85501
SIDEWALL FRAMING	ID M11013
SHEET 5 OF 11	



SOUTH SIDEWALL FRAMING: FRAME LINE C



SOUTH SIDEWALL SHEETING & TRIM: FRAME LINE C
PANELS: 26 Gd. PBR - LIGHT STONE

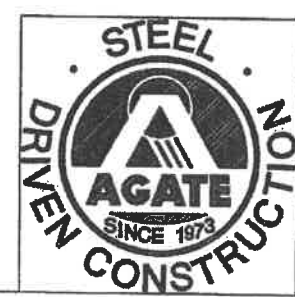
ID	MARK	DETAIL
1	SB	Det. T7
2	SB	Det. T7
3	FL-831	Det.78
4	FL-19A	Det.65
5	FL-16A	
6	FL-16A	Det.65
7	FL-23	Det.56
8	FL-26	Det.53

MARK	PART
DJ-1	8X25C16
DH-1	8X25C16
E-1	8E14
E-2	8E14
G-3	8X25Z16
G-4	8X25Z16
CB-1	0.31_CBL
CB-2	0.31_CBL

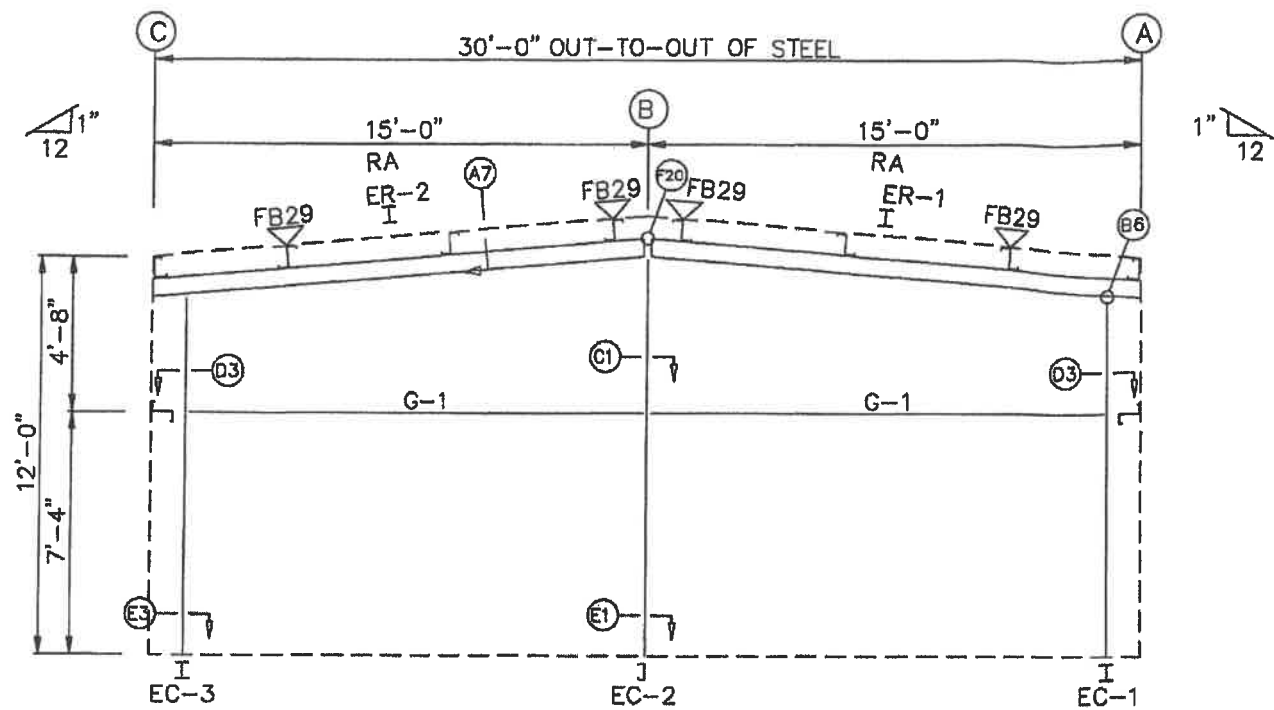


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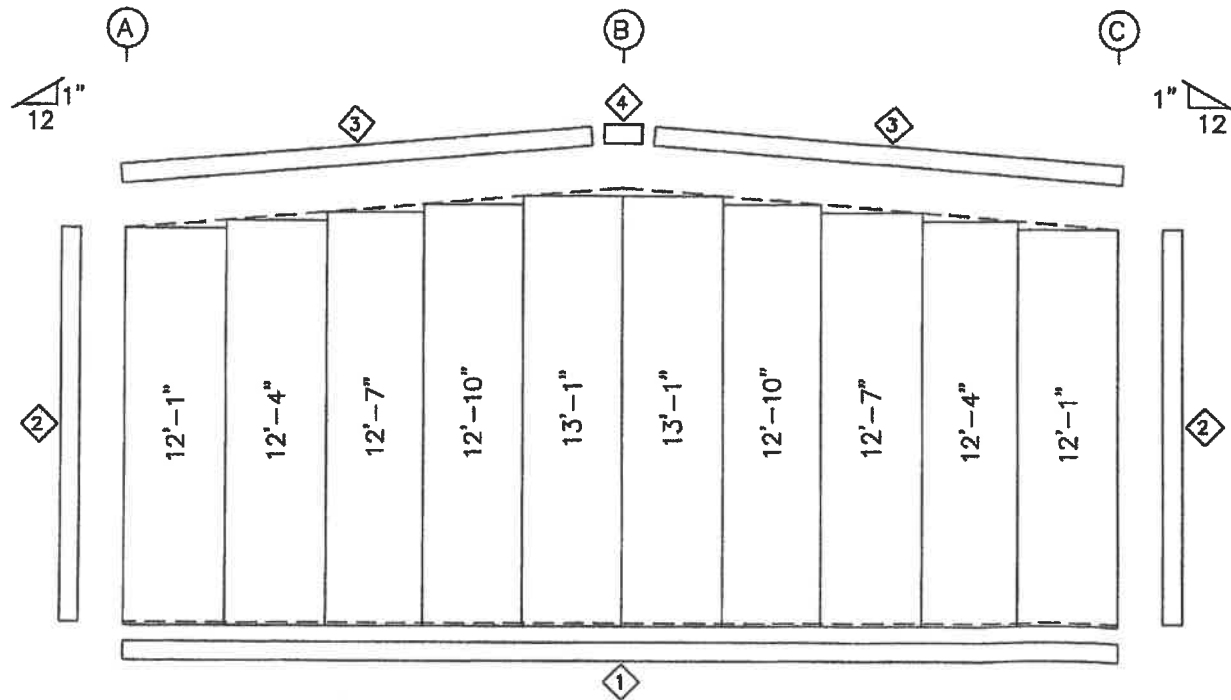
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AGATE STEEL BUILDINGS	
GILA COUNTY	
PROJECT	GILA COUNTY
PROJECT ADDRESS	5515 S APACHE AVE GLOBE, AZ 85501
SIDEWALL FRAMING	ID M11013
SHEET 6 OF 11	



EAST ENDWALL FRAMING: FRAME LINE 3



EAST ENDWALL SHEETING & TRIM: FRAME LINE 3
PANELS: 26 Ga. PBR - LIGHT STONE

BOLT TABLE FRAME LINE 1				
LOCATION	QUAN	TYPE	DIA	LENGTH
ER-1/ER-2	8	A325	1/2"	2"
Columns/Ref	2	A325	1/2"	1 1/2"

TRIM TABLE FRAME LINE 1		
QID	MARK	DETAIL
1	SB	Det. T7
2	FL-831	Det. 78
3	XFL-16	Det. 63
4	FL-16B	

FLANGE BRACE TABLE FRAME LINE 1		
VID	MARK	LENGTH
1	FB29	2'-5"

MEMBER TABLE FRAME LINE 1		
MARK	PART	
EC-1	W8X10	
EC-2	8X25C16	
EC-3	W8X10	
ER-1	W8X10	
ER-2	W8X10	
G-1	8X25Z16	

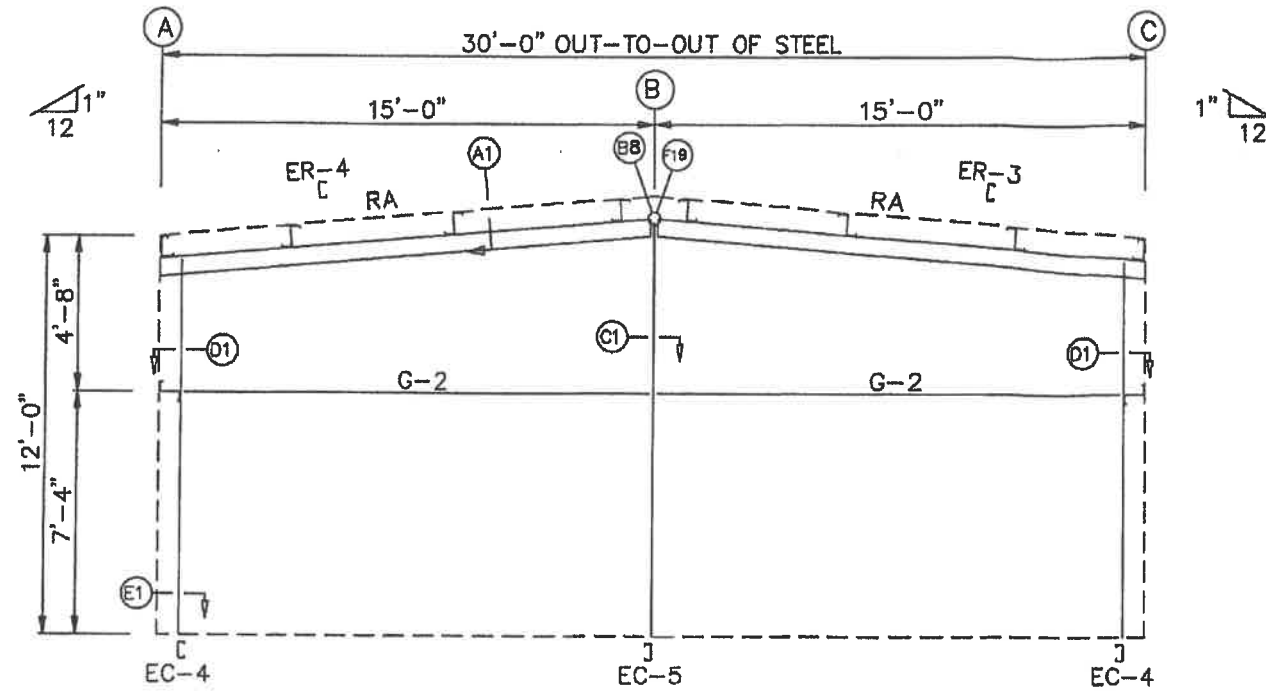


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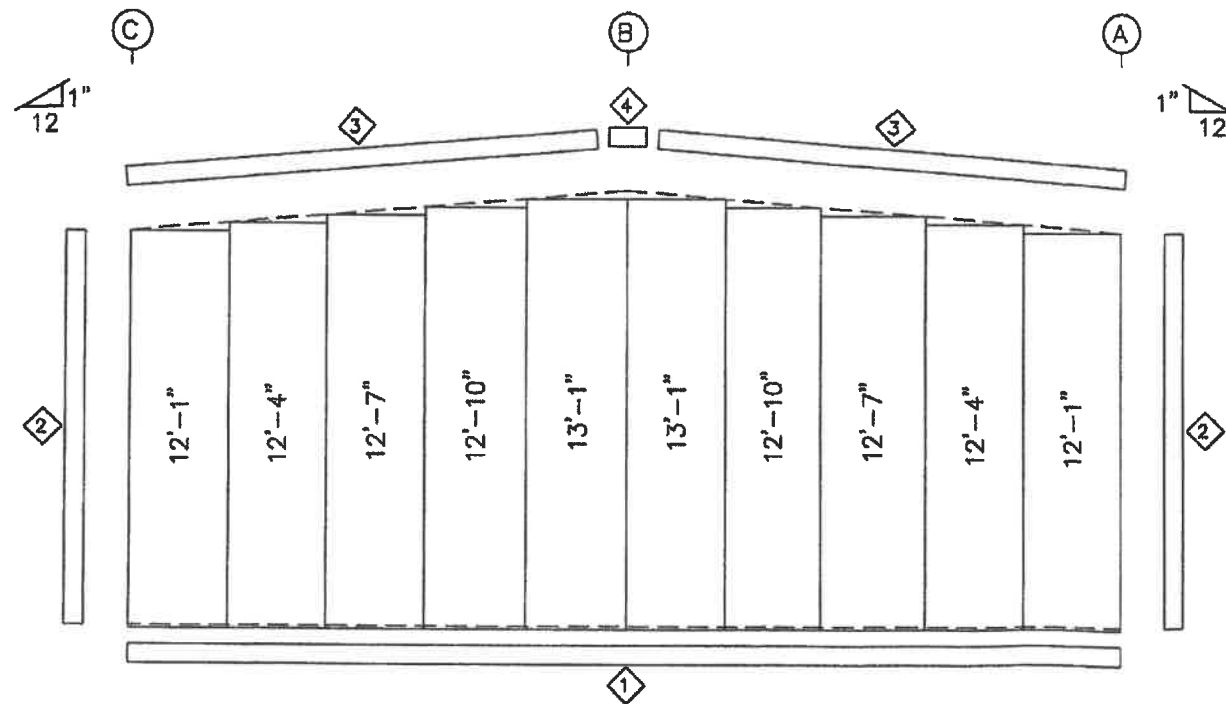
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AGATE STEEL BUILDINGS		
GILA COUNTY		ENDWALL FRAMING
PROJECT	GILA COUNTY	ID M11013
PROJECT ADDRESS	5515 S APACHE AVE GLOBE, AZ 85501	SHEET 7 OF 11



WEST ENDWALL FRAMING: FRAME LINE 1



WEST ENDWALL SHEETING & TRIM: FRAME LINE 1
PANELS: 26 Ga. PBR - LIGHT STONE

BOLT TABLE FRAME LINE 3				
LOCATION	QUAN	TYPE	DIA	LENGTH
ER-3/ER-4	4	A325	1/2"	1 1/4"
Columns/Raf	2	A325	1/2"	1 1/4"

TRIM TABLE FRAME LINE 3		
ID	MARK	DETAIL
1	SB	Det. T7
2	FL-831	Det. 78
3	XFL-16	Det. 63
4	FL-16B	

MEMBER TABLE FRAME LINE 3	
MARK	PART
EC-4	8X25C16
EC-5	8X25C16
ER-3	10X35C14
ER-4	10X35C14
G-2	8X25Z16

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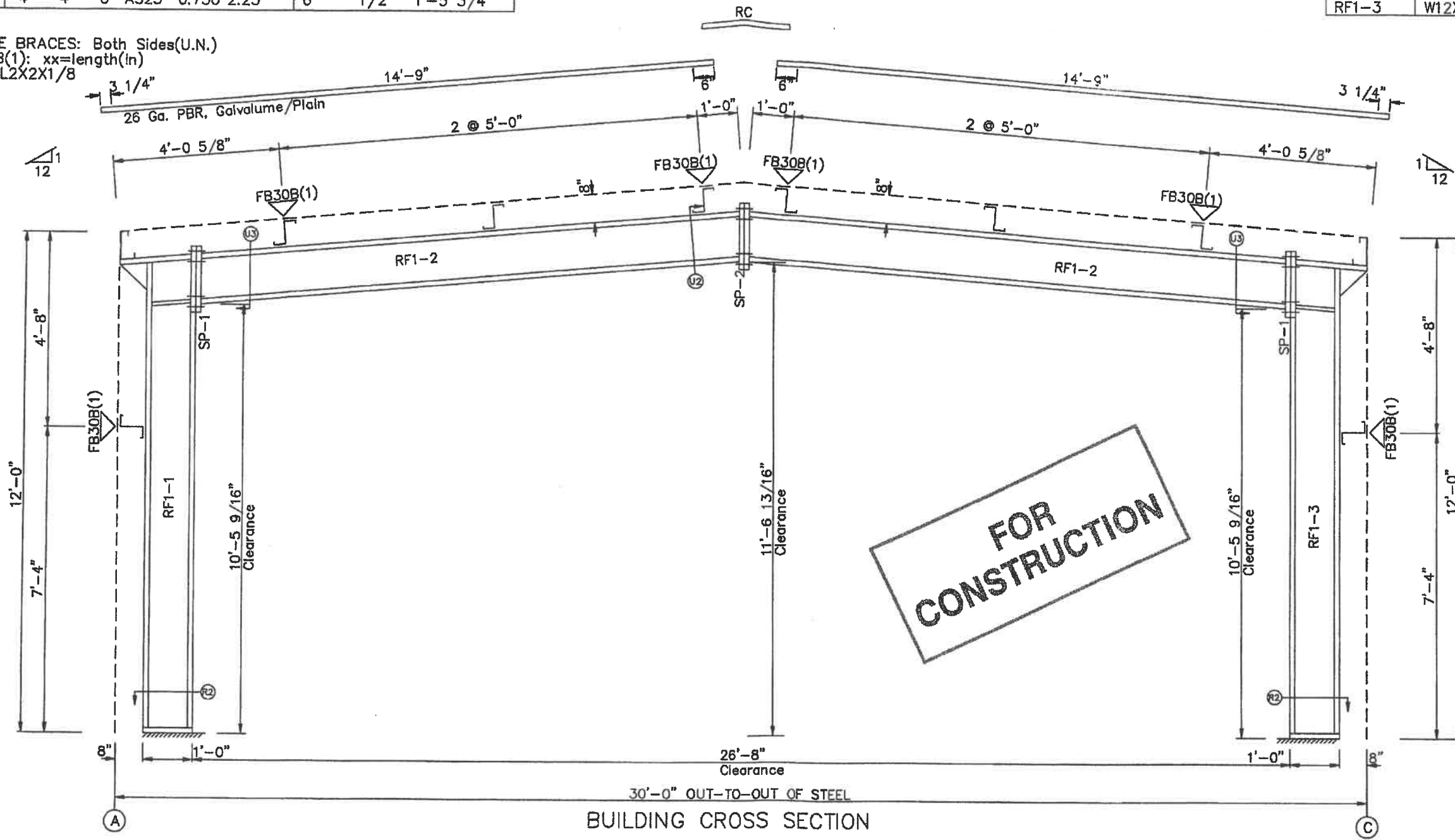
**AISC CERTIFIED
FABRICATOR
AND ERECTOR**

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AGATE STEEL BUILDINGS		
GILA COUNTY		ENDWALL FRAMING
PROJECT	GILA COUNTY	ID M11013
PROJECT ADDRESS	5515 S APACHE AVE GLOBE, AZ 85501	SHEET 8 OF 11

SPLICE PLATES & BOLTS									
Splice Mark	Quan			Bolt			Plate Size		
	Top	Bot	Int	Type	Dia	Length	Width	Thick	
SP-1	4	4	0	A325	0.750	2.25	6"	1/2"	1'-5 7/8"
SP-2	4	4	0	A325	0.750	2.25	6"	1/2"	1'-5 3/4"

MEMBER SIZE TABLE		
MARK	MEMBER	LENGTH
RF1-1	W12X16	11'-4 5/8"
RF1-2	W12X14	13'-4 9/16"
RF1-3	W12X16	11'-4 5/8"

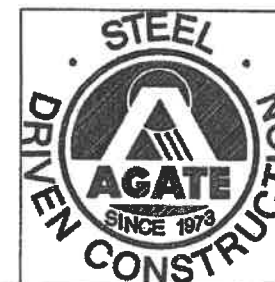
FLANGE BRACES: Both Sides(U.N.)
 FBxxB(1): xx=length(in)
 B - L2X2X1/8



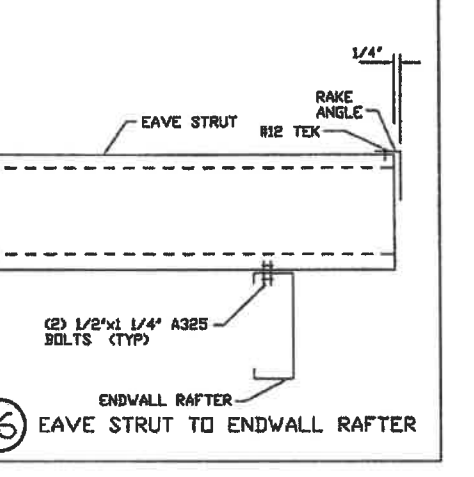
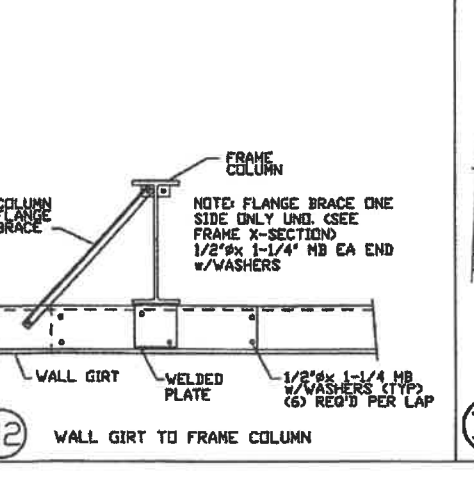
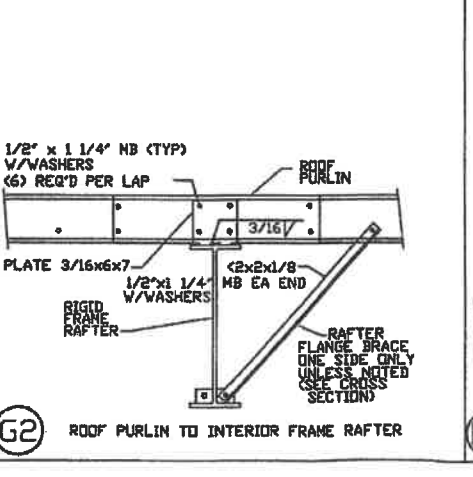
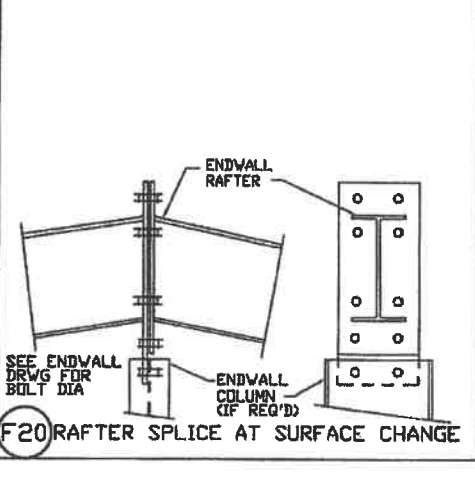
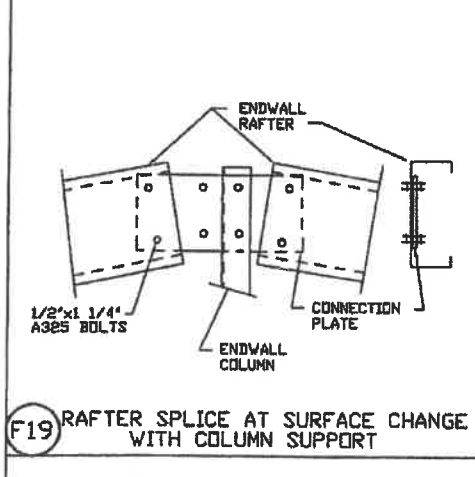
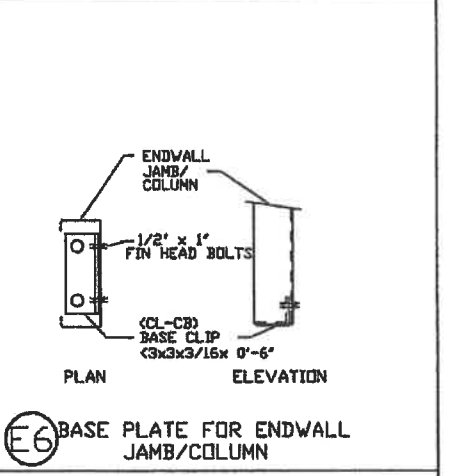
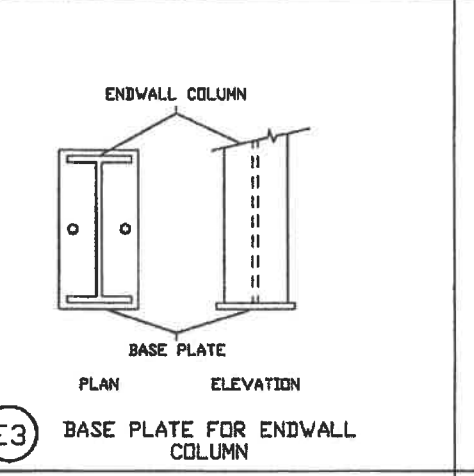
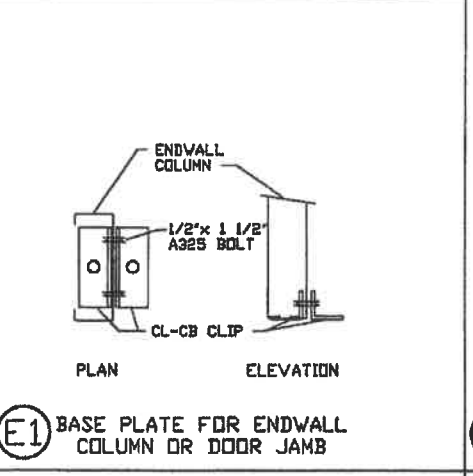
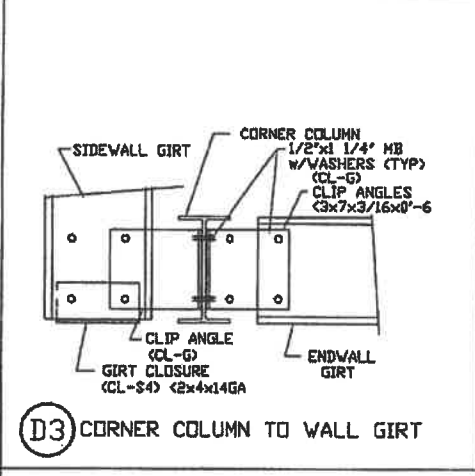
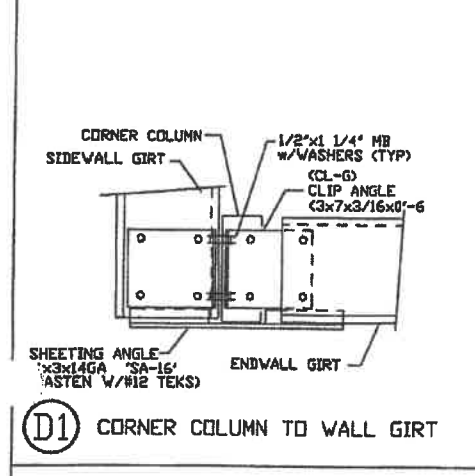
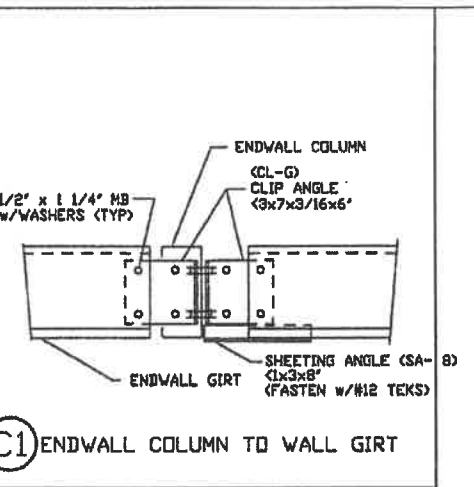
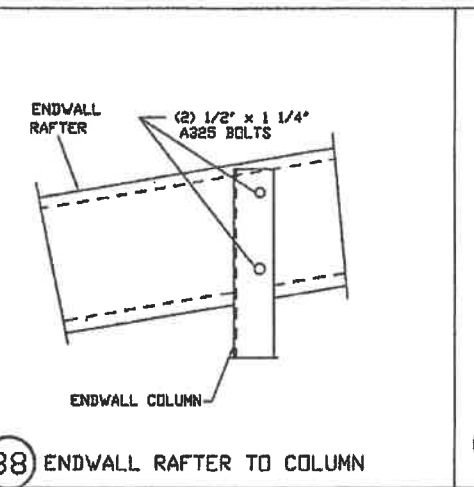
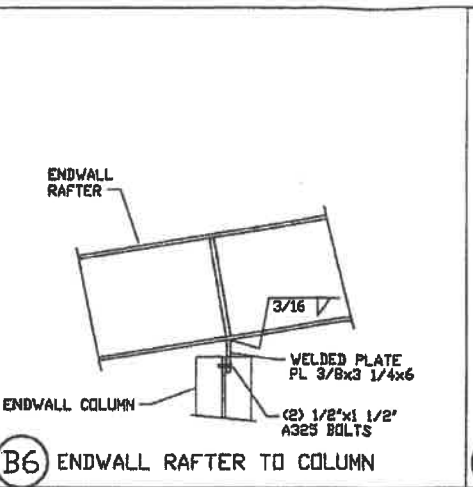
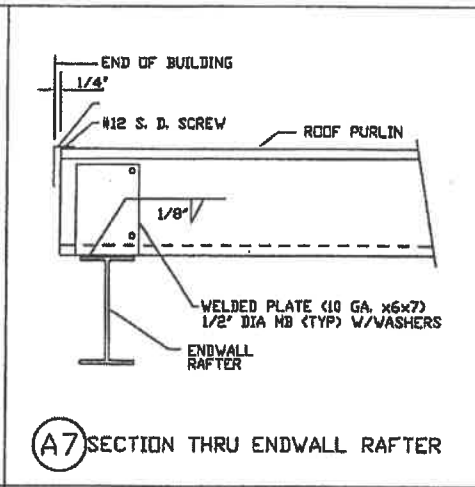
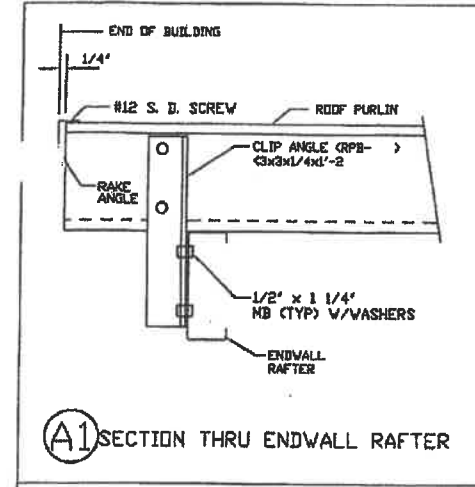
EXPIRES 03/31/2013



BUILDING CROSS SECTION
 FOR FRAME LINE 2



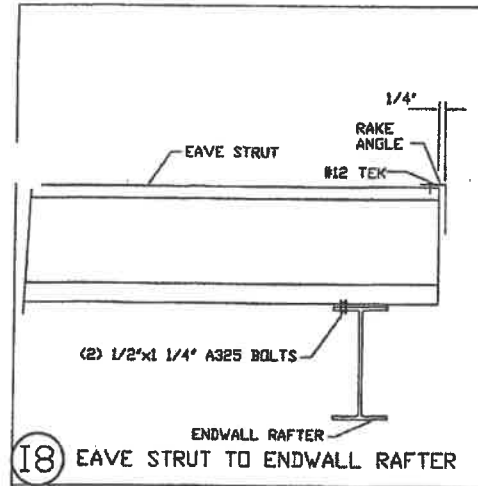
DATE: 11/24/11	FOR CONSTRUCTION
DATE:	
DATE:	
DATE: 5/9/11	FOR APPROVAL
AGATE STEEL BUILDINGS	
GILA COUNTY	RIGID FRAME ELEVATION
PROJECT GILA COUNTY	ID M11013
PROJECT ADDRESS 5515 S APACHE AVE GLOBE, AZ 85501	SHEET 9 OF 11



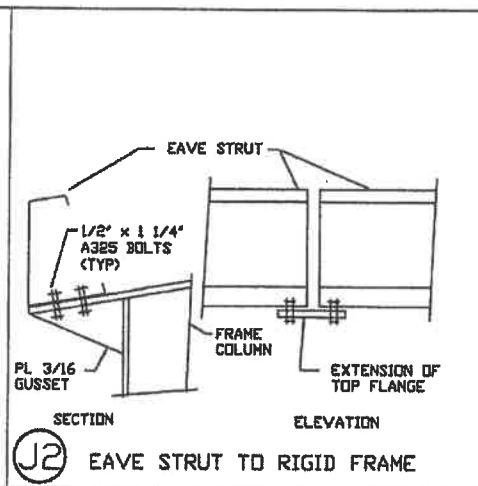
FOR CONSTRUCTION



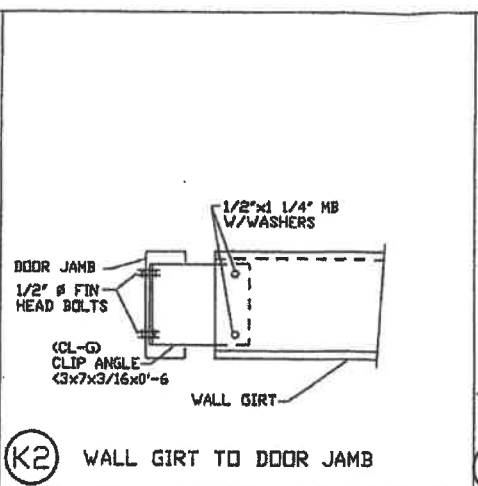
DATE:	11/24/11	FOR CONSTRUCTION
DATE:		
DATE:		
DATE:	5/9/11	FOR APPROVAL
AGATE STEEL BUILDINGS		
GILA COUNTY		DETAIL DRAWINGS
PROJECT	GILA COUNTY	ID M11013
PROJECT ADDRESS	5515 S APACHE AVE GLOBE, AZ 85501	SHEET 10 OF 11



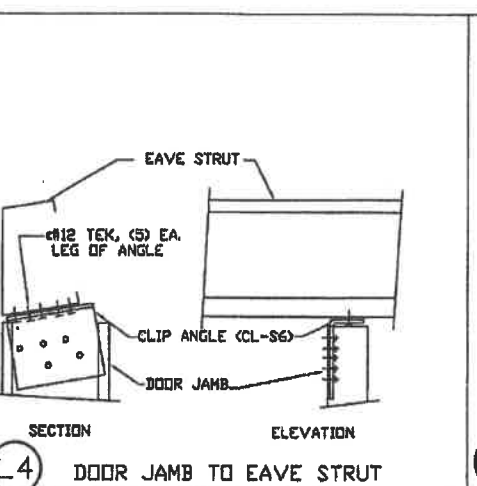
I8 EAVE STRUT TO ENDWALL RAFTER



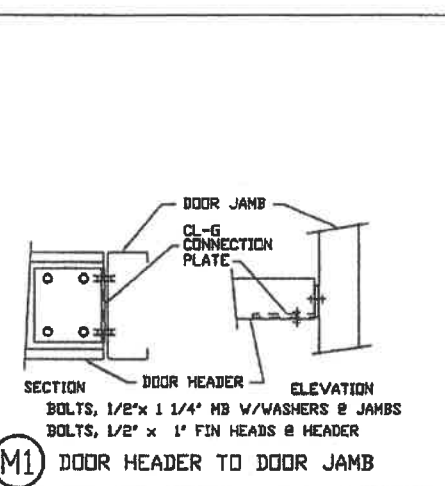
J2 EAVE STRUT TO RIGID FRAME



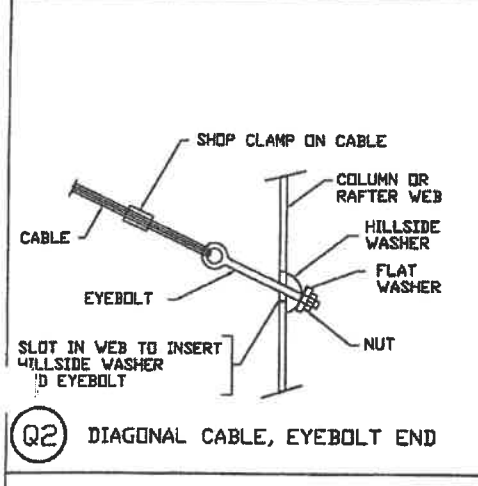
K2 WALL GIRT TO DOOR JAMB



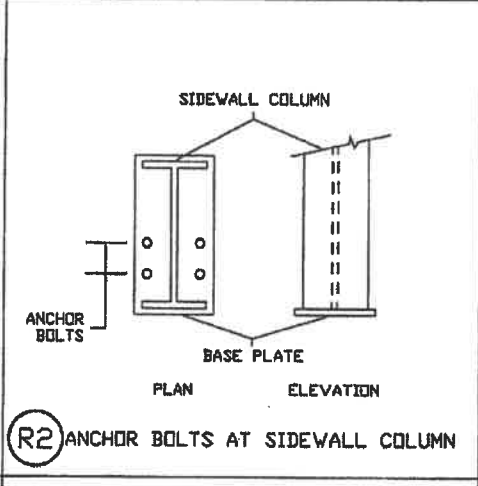
L4 DOOR JAMB TO EAVE STRUT



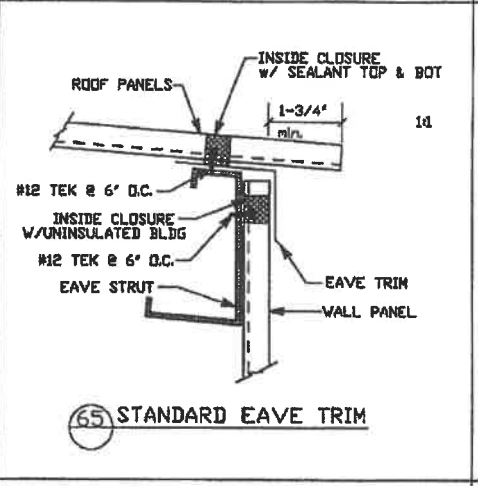
M1 DOOR HEADER TO DOOR JAMB



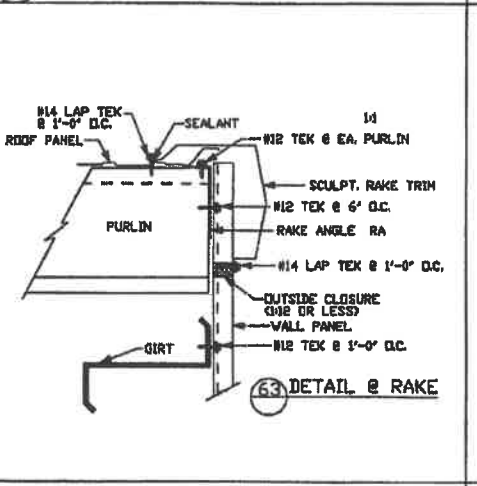
Q2 DIAGONAL CABLE, EYEBOLT END



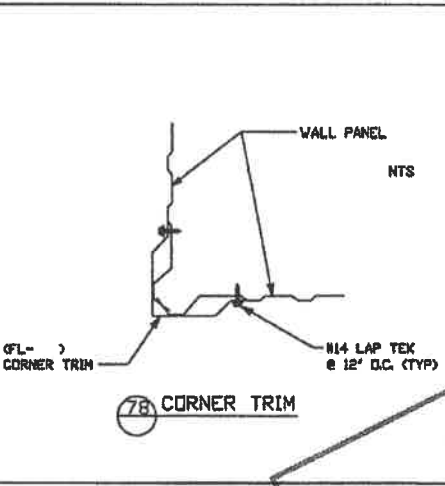
R2 ANCHOR BOLTS AT SIDEWALL COLUMN



65 STANDARD EAVE TRIM

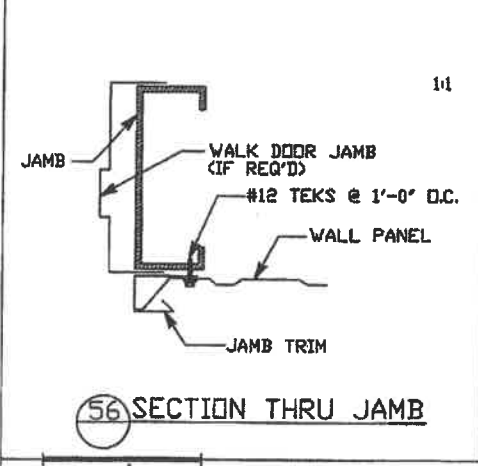


63 DETAIL @ RAKE

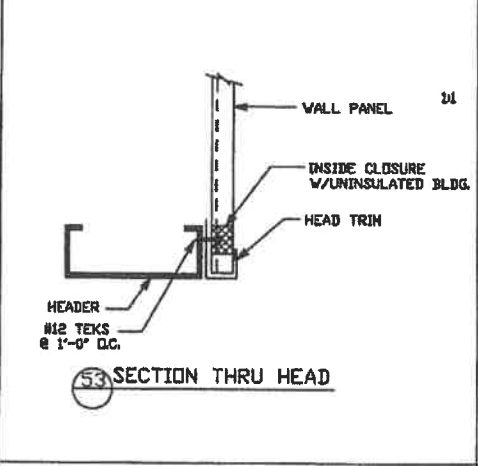


78 CORNER TRIM

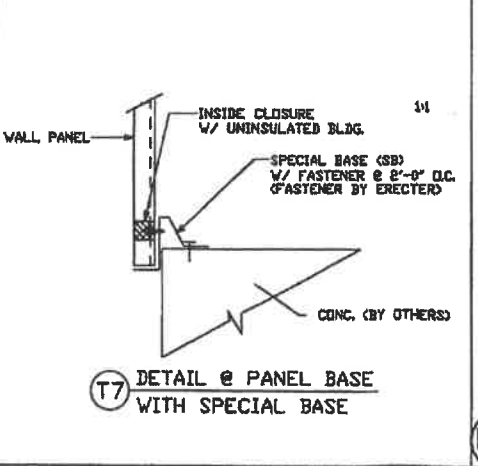
FOR CONSTRUCTION



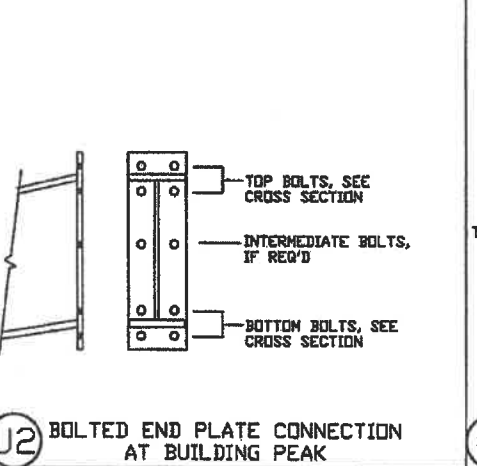
56 SECTION THRU JAMB



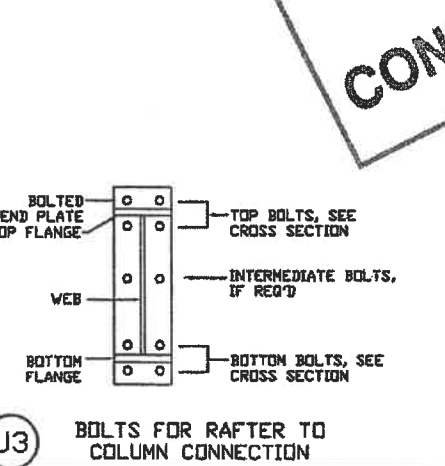
53 SECTION THRU HEAD



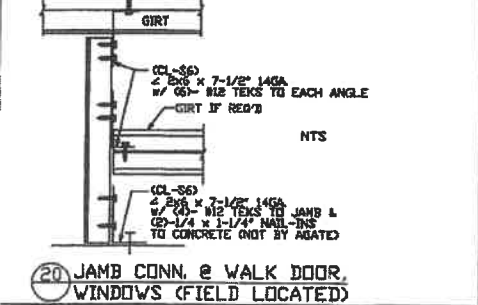
T7 DETAIL @ PANEL BASE WITH SPECIAL BASE



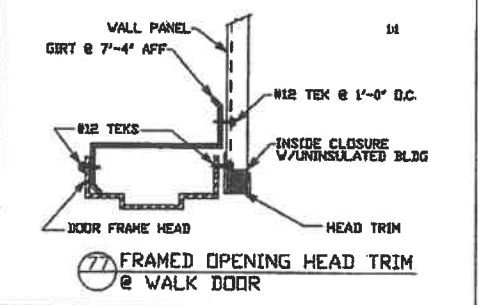
U2 BOLTED END PLATE CONNECTION AT BUILDING PEAK



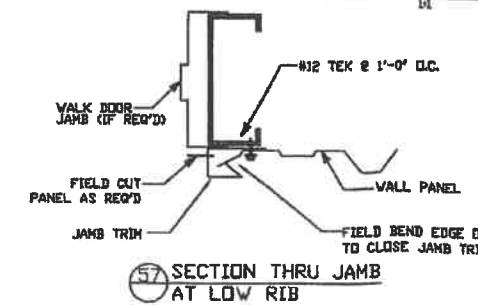
U3 BOLTS FOR RAFTER TO COLUMN CONNECTION



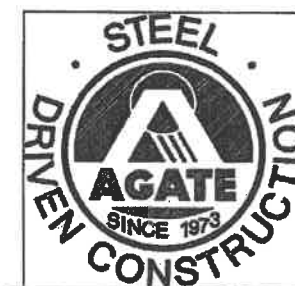
20 JAMB CONN. @ WALK DOOR, WINDOWS (FIELD LOCATED)



77 FRAMED OPENING HEAD TRIM @ WALK DOOR



57 SECTION THRU JAMB AT LOW RIB



DATE:	11/24/11	FOR CONSTRUCTION
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AGATE STEEL BUILDINGS		
GILA COUNTY		DETAIL DRAWINGS
PROJECT	GILA COUNTY	ID M11013
PROJECT ADDRESS	5515 S APACHE AVE GLOBE, AZ 85501	SHEET 11 OF 11



AISC CERTIFIED FABRICATOR AND ERECTOR