

COLOR SELECTION

Please indicate on lines below if not already selected

ROOF PANELS GALVALUME
26Ga – PBR

NOTE: COLORS ARE TO BE MANUFACTURER’S STANDARD.

JOBSITE INFORMATION

ADDRESS: 18700 N. SAINT GABRIEL WAY
CITY: MARICOPA, AZ. 85138
PHONE: 800–406–5126
CONTACT: GUY YOUNG

DRAWING SET RECORD

DRAWING SET	DATE ISSUED	SHEETS	REV. #	REV.DATE	DESCRIPTION OF REVISION
PERMIT SET	10/29/24	1 Thru. 15	N/A	N/A	N/A
PERMIT SET					
CONSTRUCTION SET					
CONSTRUCTION SET					

DRAWING NOTES
THESE DRAWINGS ARE INSTRUMENTS OF SERVICE AND ARE THE PROPERTY OF MANUFACTURER ALL DESIGNS AND OTHER INFORMATION ON THE DRAWINGS ARE FOR THE USE OF THE SPECIFIED PROJECT AND SHALL NOT BE USED OTHERWISE WITHOUT THE EXPRESSED WRITTEN PERMISSION OF MANUFACTURER. WRITTEN DIMENSIONS ON THESE DRAWINGS SHALL HAVE PRESEDENCE OVER SCALED DIMENSIONS. CONTRACTORS SHALL VERIFY AND BE RESPONSIBLE FOR ALL DIMENSIONS AND CONDITIONS ON THE JOB, AND THIS OFFICE SHALL BE NOTIFIED OF ANY VARIATIONS FROM THE DIMENSIONS AND CONDITIONS SHOWN BY THESE DRAWINGS.

DRAWING STATUS
☐ FOR PRELIMINARY REVIEW:
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☒ FOR CONSTRUCTION PERMIT
☐ FOR ERECTOR/INSTALLATION

NO.:	REVISED:	BY:	DATE:
△			
△			
△			
△			
△			
△			



CUSTOMER: **OUR LADY OF GRACE CHURCH**
ADDRESS: —
PROJECT: 80'-0" X 80'-0" X 17'-3" 1:12
ADDRESS: 18700 N. SAINT GABRIEL WAY MARICOPA, AZ. 85138
DSGN: AC
DWN: GRM
DET: —
SCALE: NONE
M27322-24 144

DRAWING
1
DATE:
10/29/24

RELEASE TO FABRICATION

CUSTOMER SIGN-OFF

APPROVED BY: _____

DATE: _____

- ☐ APPROVED FOR FABRICATION WITHOUT ANY EXCEPTIONS
- ☐ APPROVED FOR FABRICATION AS NOTED
- ☐ REVISE AND RESUBMIT AS NOTED

SPECIAL INSPECTION:

SPECIAL INSPECTION MAY NEED TO BE PROVIDED IN ADDITION TO THE INSPECTIONS CONDUCTED BY THE DEPARTMENT OF BUILDING SAFETY AND SHALL NOT BE CONSTRUED TO RELIEVE THE OWNER OR HIS AUTHORIZED AGENT FROM REQUESTING THE INSPECTIONS REQUIRED BY THE 2018 INTERNATIONAL BUILDING CODE.

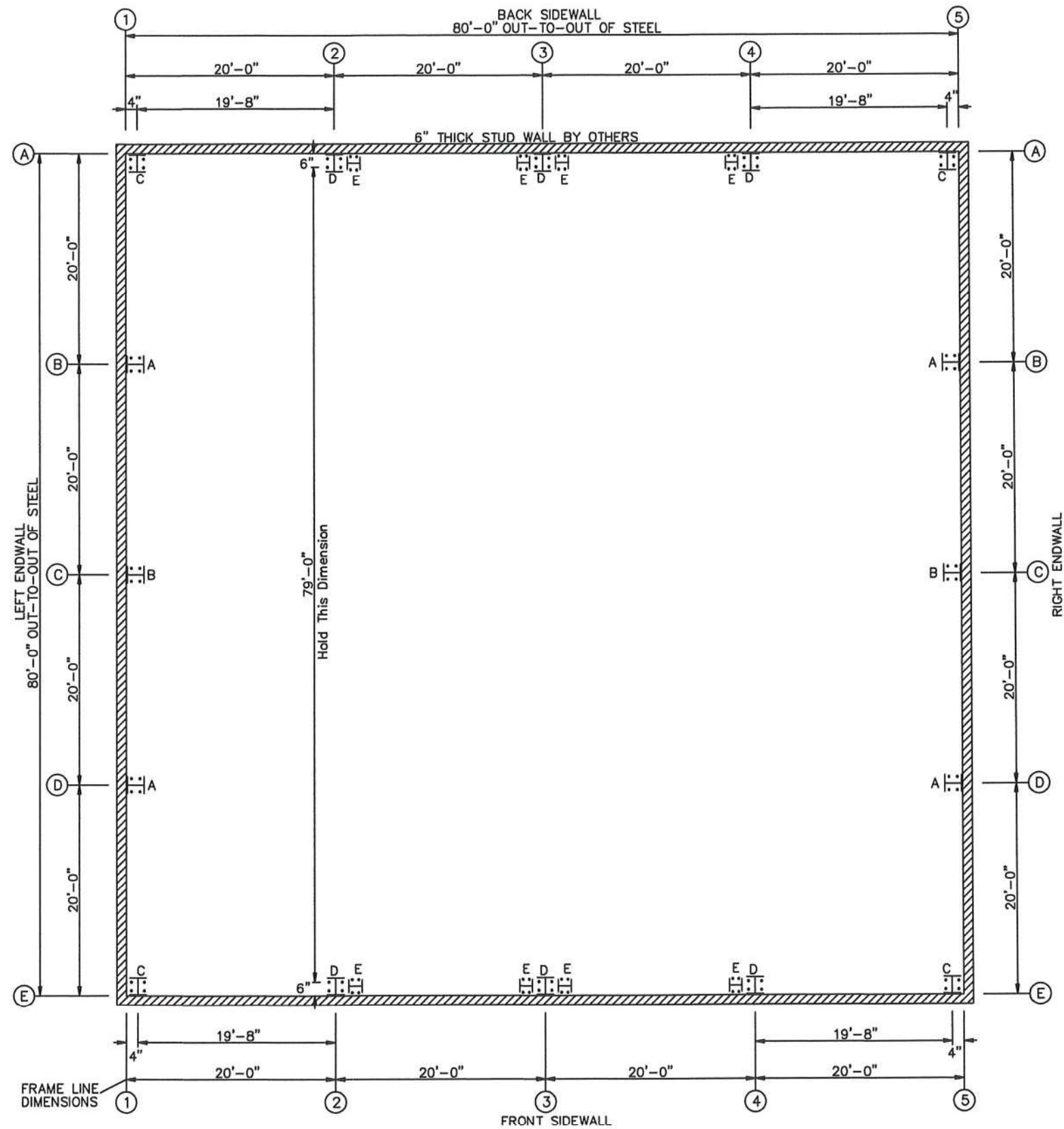
SPECIAL INSPECTION MAY REQUIRED FOR THE FOLLOWING: CHECK WITH PERMIT DEPT

1. FIELD WELDING (IF ANY)
2. HIGH STRENGTH BOLTING (A325 BOLT)
3. STRUCTURAL STEEL CONSTRUCTION
4. CAST-IN-PLACE ANCHORS
5. EPOXY & EXPANSION ANCHORS (IF ANY)

- CHECK WITH BUILDING DEPARTMENT ON ANY SPECIFICS ABOUT SPECIAL INSPECTIONS.
- SPECIAL INSPECTIONS ARE NOT PROVIDED BY GENERAL STEEL CORP.
- CUSTOMER WILL HIRE AN INDEPENDENT LICENSED INSPECTOR FOR SPECIAL INSPECTIONS AND COORDINATE SPECIAL INSPECTIONS WITH INSTALLER AND INSPECTOR AS NEEDED.



IMPORTANT NOTE:
FOUNDATION DESIGN REQUIRED
FOUNDATION DESIGN BY OTHERS,
NOT BY GENERAL STEEL CORP.



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

NOTE:
BUILDING IS DESIGNED AS A STAND-ALONE/INDEPENDENT BUILDING WITH NO CLOSE PROXIMITY TO
ANY OTHER STRUCTURE/FRAMING AFFECTING THIS BUILDING AND/OR FOUNDATION DESIGN/LOADS.

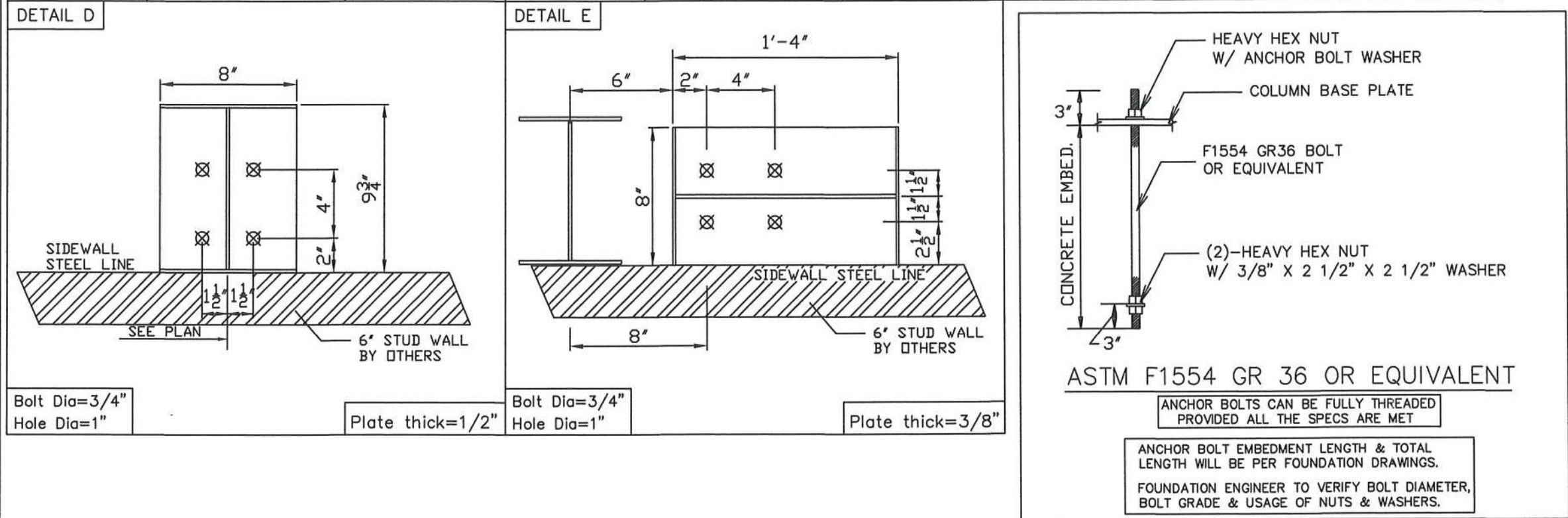
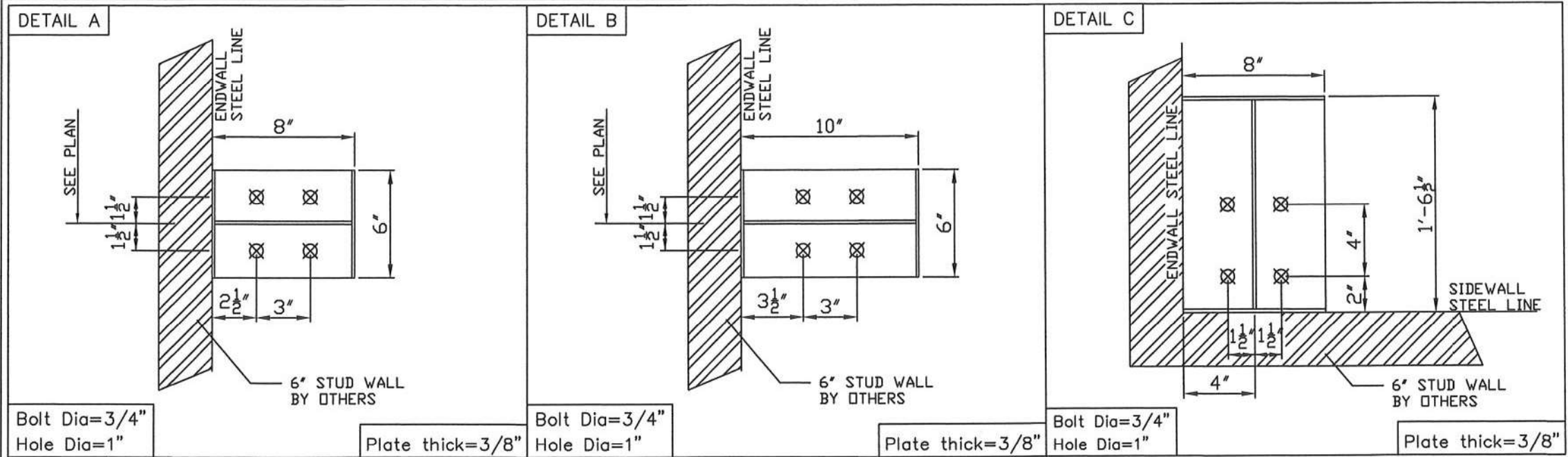
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ENGINEER-OF-RECORD FOR THE OVERALL PROJECT



Expires: 6/30/25

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	☒ FOR CONSTRUCTION PERMIT	△							PROJECT: 80'-0" X 80'-0" X 17'-3" 1:12		
	☐ FOR ERECTOR/INSTALLATION	△							ADDRESS: 18700 N. SAINT GABRIEL WAY MARICOPA, AZ. 85138		DATE: 10/29/24
		△							DSGN: AC DVN: GRM DET:	SCALE: NONE	





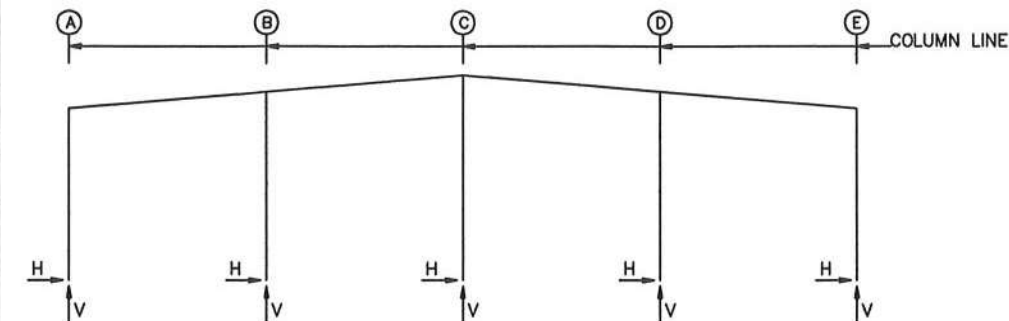
ANCHOR BOLT SUMMARY

Qty	Locate	Dia (in)	Type	Project
24	Endwall	3/4"	F1554 GR 36	3"
40	Frame	3/4"	F1554 GR 36	3"
32	WindCol	3/4"	F1554 GR 36	3"

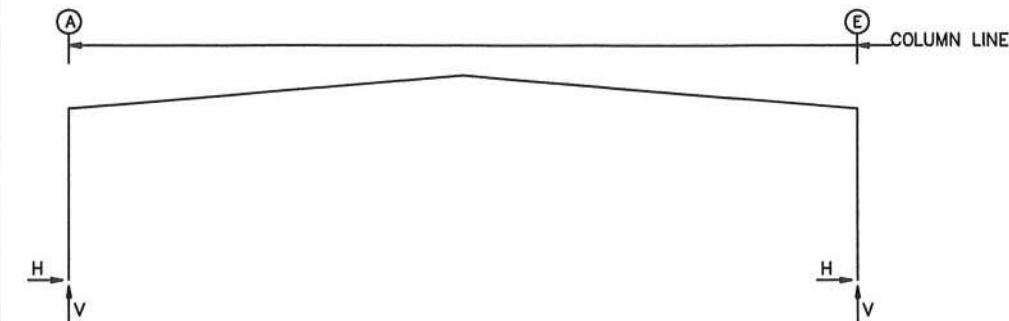


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FRAME LINES: 1 5



FRAME LINES: 2 3 4



RIGID FRAME: BASIC COLUMN REACTIONS (k)

Frame Line	Column Line	Dead Horiz	Dead Vert	Collateral Horiz	Collateral Vert	Live Horiz	Live Vert	Wind_Left1 Horiz	Wind_Left1 Vert	Wind_Right1 Horiz	Wind_Right1 Vert	Wind_Left2 Horiz	Wind_Left2 Vert
1*	A	0.1	0.9	0.2	1.4	0.2	1.2	-1.6	-4.9	2.4	-1.9	-3.2	-1.9
1*	E	-0.1	0.9	-0.2	1.4	-0.2	1.2	-2.4	-1.9	1.6	-4.9	-0.8	1.2
1*	B	0.0	1.2	0.0	2.8	0.0	2.4	0.0	-7.0	0.0	-6.1	0.0	-1.8
1*	C	0.0	1.2	0.0	2.8	0.0	2.5	0.0	-6.5	0.0	-6.5	0.0	-1.4
1*	D	0.0	1.2	0.0	2.8	0.0	2.4	0.0	-6.1	0.0	-7.0	0.0	-1.0

Frame Line	Column Line	Wind_Right2 Horiz	Wind_Right2 Vert	Wind_Long1 Horiz	Wind_Long1 Vert	Wind_Long2 Horiz	Wind_Long2 Vert	Seismic_Left Horiz	Seismic_Left Vert	Seismic_Right Horiz	Seismic_Right Vert	F1PAT_LL_1 Horiz	F1PAT_LL_1 Vert
1*	A	0.8	1.2	1.6	-3.2	1.3	-2.8	-4.4	-4.5	4.4	4.5	0.1	1.1
1*	E	3.2	-1.9	-1.3	-2.8	-1.6	-3.2	-4.4	4.5	4.4	-4.5	-0.1	0.1
1*	B	0.0	-1.0	0.0	-6.2	0.0	-4.0	0.0	5.4	0.0	-5.4	0.0	2.7
1*	C	0.0	-1.4	0.0	-5.1	0.0	-5.1	0.0	0.0	0.0	0.0	0.0	1.3
1*	D	0.0	-1.8	0.0	-4.0	0.0	-6.2	0.0	-5.4	0.0	5.4	0.0	-0.3

Frame Line	Column Line	F1PAT_LL_2 Horiz	F1PAT_LL_2 Vert	F1PAT_LL_3 Horiz	F1PAT_LL_3 Vert	F1PAT_LL_4 Horiz	F1PAT_LL_4 Vert	F1PAT_LL_5 Horiz	F1PAT_LL_5 Vert
1*	A	0.0	-0.1	0.1	0.1	0.1	1.2	0.1	0.0
1*	E	0.0	-0.1	-0.1	1.1	-0.1	0.0	-0.1	1.2
1*	B	0.0	1.1	0.0	-0.3	0.0	1.2	0.0	1.3
1*	C	0.0	2.9	0.0	1.3	0.0	1.3	0.0	1.3
1*	D	0.0	1.1	0.0	2.7	0.0	1.3	0.0	1.2

Frame Line	Column Line	Dead Horiz	Dead Vert	Collateral Horiz	Collateral Vert	Live Horiz	Live Vert	Wind_Left1 Horiz	Wind_Left1 Vert	Wind_Right1 Horiz	Wind_Right1 Vert	Wind_Left2 Horiz	Wind_Left2 Vert
2*	A	3.0	4.1	9.4	10.8	8.4	9.6	-24.4	-29.3	-16.6	-22.6	-10.7	-8.1
2*	E	-3.0	4.1	-9.4	10.8	-8.4	9.6	16.6	-22.6	24.4	-29.3	3.0	-1.4

Frame Line	Column Line	Wind_Right2 Horiz	Wind_Right2 Vert	Wind_Long1 Horiz	Wind_Long1 Vert	Wind_Long2 Horiz	Wind_Long2 Vert	Seismic_Left Horiz	Seismic_Left Vert	Seismic_Right Horiz	Seismic_Right Vert
2*	A	-3.0	-1.4	-13.5	-22.2	-14.0	-19.3	-3.1	-1.2	3.1	1.2
2*	E	10.7	-8.1	14.0	-19.3	13.5	-22.2	-3.1	1.2	3.1	-1.2

1* Frame lines: 1 5
2* Frame lines: 2 3 4

NOTE:
BUILDING IS DESIGNED AS A STAND-ALONE/INDEPENDENT BUILDING WITH NO CLOSE PROXIMITY TO ANY OTHER STRUCTURE/FRAMING AFFECTING THIS BUILDING AND/OR FOUNDATION DESIGN/LOADS.

NOTES FOR REACTIONS

Building reactions are based on the following building data:

Width (ft)	=	80.0
Length (ft)	=	80.0
Eave Height (ft)	=	17.3/ 17.3
Roof Slope (rise/12)	=	1.0
Dead Load (psf)	=	3.0
Collateral Load (psf)	=	13.5
Roof Live Load (psf)	=	20.0
Frame Live Load (psf)	=	12.0

Building Code	=	IBC 18
Occupancy Risk Category	=	III

Wind:

Nominal Design Wind Speed (mph)	=	89.0
Ultimate Wind Speed (mph)	=	115.0
Wind Exposure	=	C
Closed/Open	=	PARTIAL
Importance Wind	=	1.00
Applicable Internal Pressure Coeff.	=	+/- 0.55

Seismic Design Data:

Risk Category	=	III
Importance Seismic, Ie	=	1.25
Mapped Spectral Response Accelerations	=	Ss= 0.1932, S1=0.0744
Site Class	=	D
Design Spectral Response Coefficients	=	Sds=0.2061, Sd1=0.1190
Seismic Design Category	=	C
Basic Seismic Force Resisting System	=	H
LH - Steel System Not Specifically Detailed for Seismic Resistance		
Seismic Response Coeff, CS	=	0.1251
Response Modification Factor, R	=	3.00
Analysis Procedure Used	=	Equivalent Lateral Force

ID Description

- 1 Dead+Collateral+Live
- 2 0.6Dead+0.6Wind_Left1
- 3 0.6Dead+0.6Wind_Right1
- 4 1.04Dead+1.04Collateral+0.7Seismic_Left
- 5 1.04Dead+1.04Collateral+0.7Seismic_Right
- 6 1.03Dead+1.03Collateral+0.75Live+0.53Seismic_Left
- 7 1.03Dead+1.03Collateral+0.75Live+0.53Seismic_Right
- 8 0.56Dead+0.7Seismic_Left
- 9 0.56Dead+0.7Seismic_Right
- 10 Dead+Collateral+F1PAT_LL_2
- 11 0.6Dead+0.6Wind_Left1+0.6Wind_Suction
- 12 0.6Dead+0.6Wind_Pressure+0.6Wind_Long1L
- 13 0.6Dead+0.6Wind_Right1+0.6Wind_Suction
- 14 0.6Dead+0.6Wind_Pressure+0.6Wind_Long2L

BUILDING IS ONLY DESIGNED FOR LOADS SHOWN IN THIS TABLE AND CANNOT SUPPORT ANY OTHER LOADS.

NOTE:

PLEASE REFER TO FOOTING DESIGN FOR ANCHORAGE DESIGN OF ANCHOR BOLTS AND EMBEDMENT DEPTH OF ANCHOR BOLTS.

NOTE:

INDIVIDUAL COLUMN REACTIONS PROVIDED FOR FOOTING DESIGN. USE FACTORED COMBINATION AS REQUIRED.

MATERIAL SPECS

STEEL FLAT BAR	ASTM A529 MIN. Fy = 55 KSI
STEEL PLATE	ASTM A1011M-07 MIN. Fy = 50 KSI
ROOF/WALL SHEET	ASTM A792/A-792M-05 GR. E 26 GA.
HOT ROLLED SHAPES	ASTM A572 MIN. Fy = 50 KSI
WELD ELECTRODES	E 70 XX SERIES
CABLE	E.H.S. ASTM A475-72A
ANCHOR BOLTS	F1554 GR. 36 OR EQUIVALENT
STRUCTURAL BOLTS	ASTM A-307, A325, A490
EXPANSION BOLTS	ICCES # ESR-2818
LIGHT GAGE	ASTM A1011M-07 MIN. Fy = 55 KSI

DEFLECTION LIMITS

E.W. COLUMN	L/240
E.W. RAFTER (LIVE)	L/180
E.W. RAFTER (WIND)	L/180
WALL GIRT	L/240
ROOF PURLIN (LIVE)	L/180
ROOF PURLIN (WIND)	L/180
WALL PANEL	L/90
ROOF PANEL (LIVE)	L/180
ROOF PANEL (WIND)	L/180
RIGID FRAME (HOR.)	L/150
RIGID FRAME (VER/LIVE)	L/180
RIGID FRAME (SEIS.)	L/150
WIND FRAMING (WIND)	L/150
WIND FRAMING (SEIS.)	L/150

WIND BENT REACTIONS

Loc	Wall Line	Col Line	Horz	± Reactions		
				Wind(k) Vert	Seismic(k) Horiz	Seismic(k) Vert
F_SW	E	2	1.6	2.7	4.6	8.0
F_SW	E	3	1.6	2.7	4.6	8.0
F_SW	E	3	1.6	2.7	4.6	8.0
F_SW	E	4	1.6	2.7	4.6	8.0
B_SW	A	4	1.6	2.7	4.6	8.0
B_SW	A	3	1.6	2.7	4.6	8.0
B_SW	A	3	1.6	2.7	4.6	8.0
B_SW	A	2	1.6	2.7	4.6	8.0

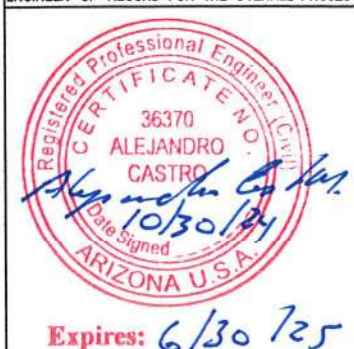
This building is designed with deflections shown in calculation & drawings on sheet 4. It is not designed for CMU walls or stucco.

ENDWALL COLUMN:

BASIC COLUMN REACTIONS (k)

Frm Line	Col Line	Wind Press Horiz	Wind Suct Horiz
1	B	-4.9	5.3
1	C	-5.7	6.1
1	D	-4.9	5.3
5	D	-4.9	5.3
5	C	-5.7	6.1
5	B	-4.9	5.3

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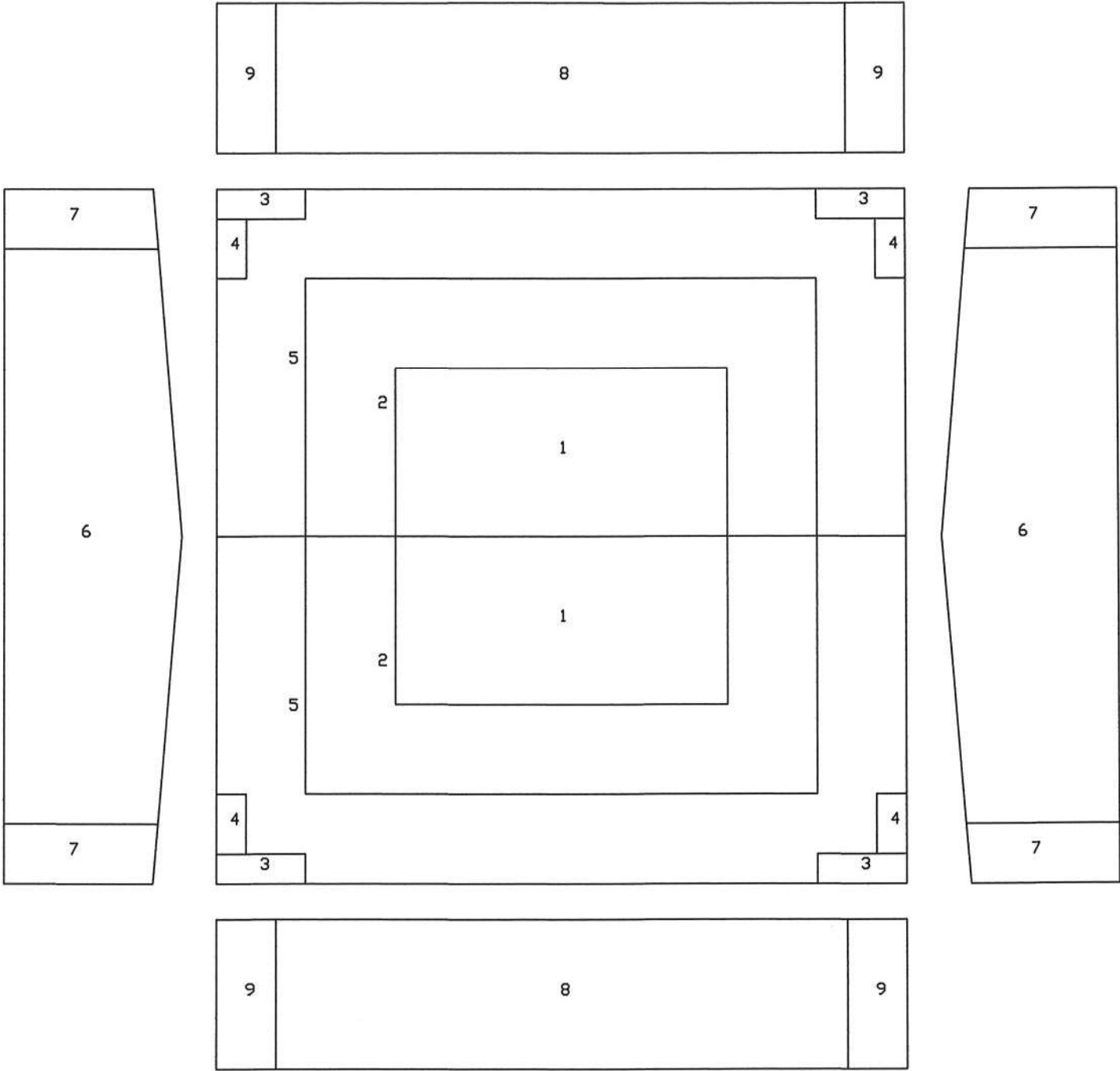


CUSTOMER: OUR LADY OF GRACE CHURCH		DRAWING	
ADDRESS: -		4A	
PROJECT: 80'-0" X 80'-0" X 17'-3" 1:12		DATE: 10/29/24	
ADDRESS: 18700 N. SAINT GABRIEL WAY MARICOPA, AZ. 85138			
DSGN: AC			
DWN: GRM			
DET: NONE			
SCALE: NONE			
M27322-24144			

METAL BUILDING
COMPONENTS & CLADDING

Zone	Width (ft)	Length (ft)	Pressure(psf)		Suction(psf)	
			Member	Panel	Member	Panel
1			18.03	20.44	-31.25	-34.87
2	10.35	10.35	18.03	20.44	-41.25	-54.05
3	3.45	10.35	18.03	20.44	-57.19	-90.31
4	6.90	3.45	18.03	20.44	-57.19	-90.31
5	10.35	10.35	18.03	20.44	-51.88	-68.69
6			29.89	34.87	-32.06	-37.03
7	6.90		29.89	34.87	-33.66	-37.03
8			29.90	34.90	-32.10	-37.00
9	6.90		29.90	34.90	-33.70	-37.00

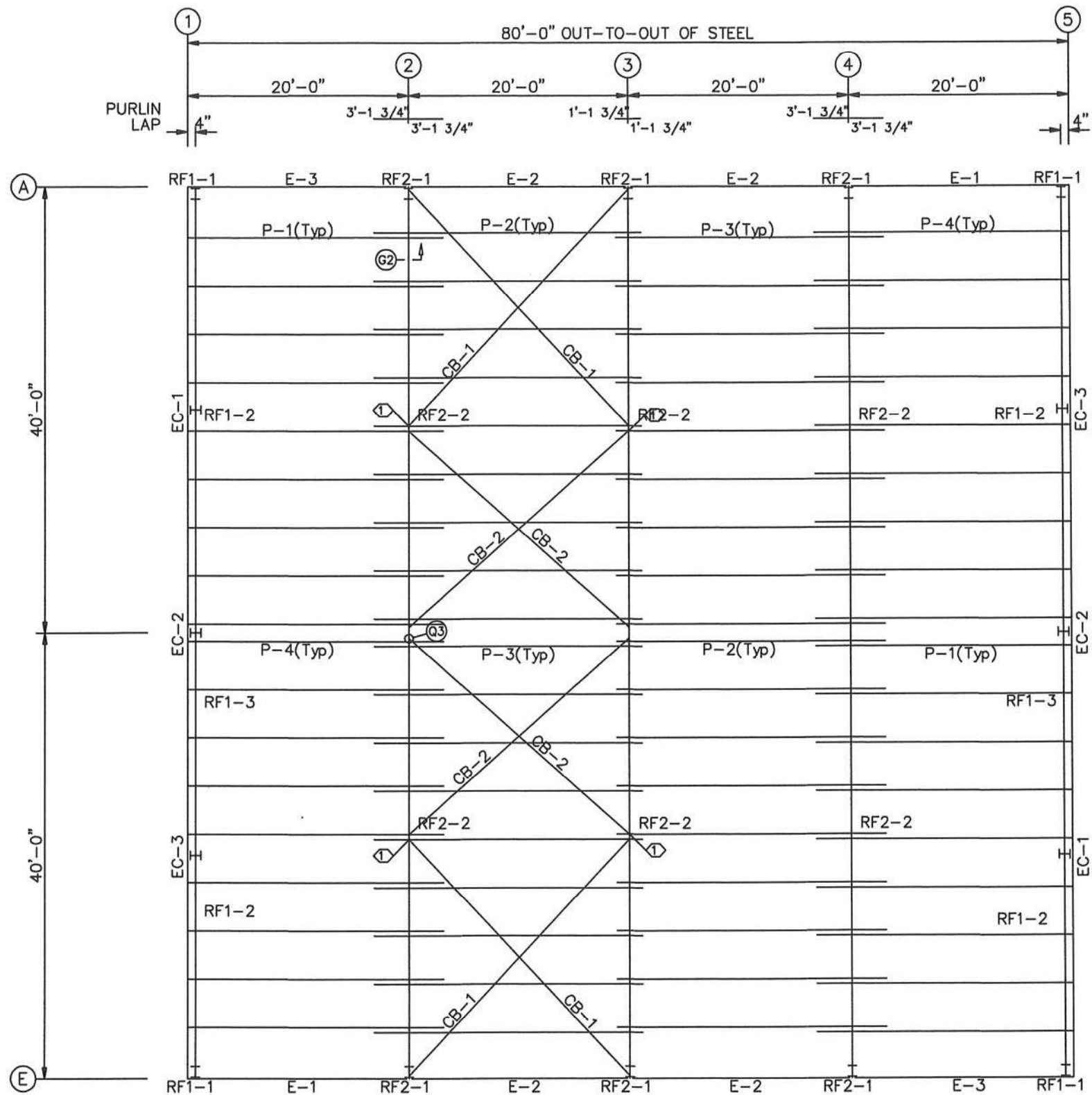
(+) wind towards surface
(-) wind away from surface



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5																																						
6																																						



ROOF FRAMING PLAN

ROOF SHEETING

PANELS: 26 Ga. PBR GALVALUME

SPECIAL BOLTS					
ROOF PLAN					
Q ID	QUAN	TYPE	DIA	LENGTH	WASH
1	4	A307	1/2"	1 1/4"	2

MEMBER TABLE		
ROOF PLAN		
MARK	PART	LENGTH
P-1	8x25Z14	23'-1 1/2"
P-2	8x25Z16	24'-3 1/2"
P-3	8x25Z16	24'-3 1/2"
P-4	8x25Z14	23'-1 1/2"
E-1	850E141	19'-11 1/2"
E-2	850E141	19'-11 1/2"
E-3	850E141	19'-11 1/2"
CB-1	RD8	28'-10"
CB-2	RD5	26'-6"

TRIM TABLE		
ROOF PLAN		
QID	PART	LENGTH
1	RIDCAP	3'-0"

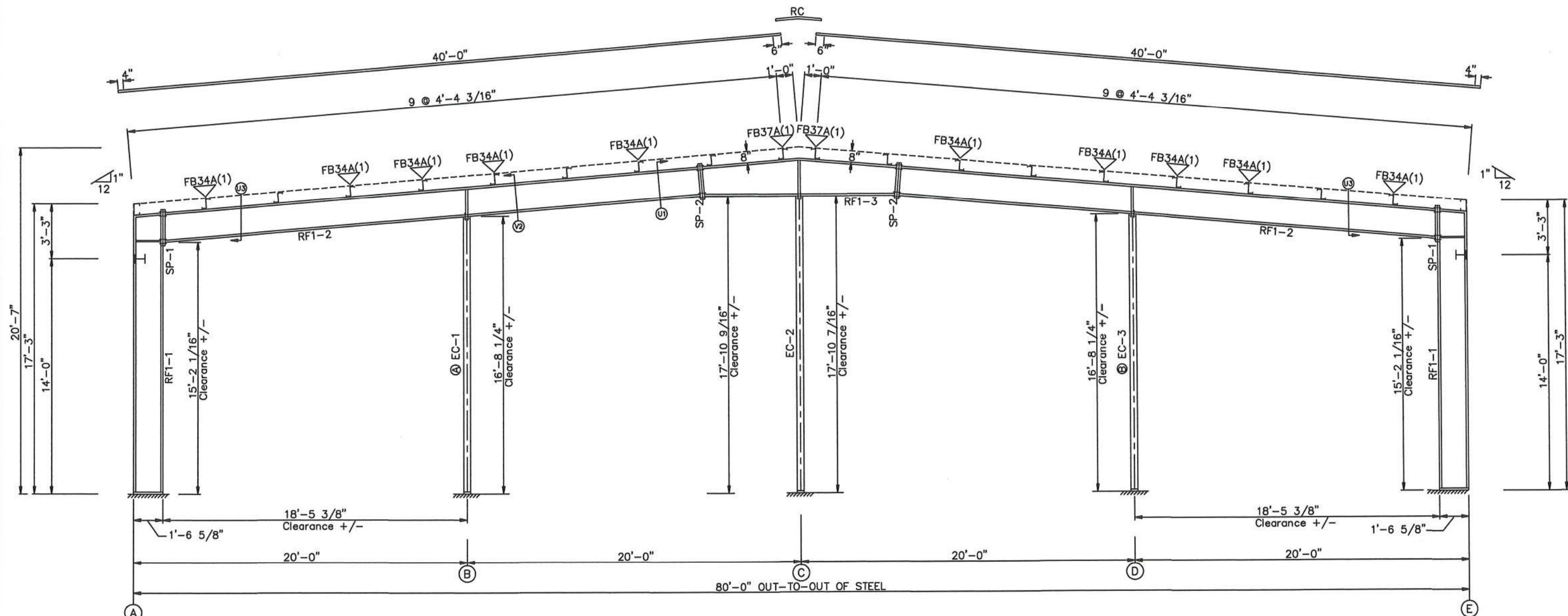
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Expires: 6/30/25

DRAWING NOTES		DRAWING STATUS		NO.: REVISED:		BY: DATE:		CUSTOMER: OUR LADY OF GRACE CHURCH		DRAWING	
THESE DRAWINGS ARE INSTRUMENTS OF SERVICE AND ARE THE PROPERTY OF MANUFACTURER ALL DESIGNS AND OTHER INFORMATION ON THE DRAWINGS ARE FOR THE USE OF THE SPECIFIED PROJECT AND SHALL NOT BE USED OTHERWISE WITHOUT THE EXPRESSED WRITTEN PERMISSION OF MANUFACTURER. WRITTEN DIMENSIONS ON THESE DRAWINGS SHALL HAVE PRECEDENCE OVER SCALED DIMENSIONS. CONTRACTORS SHALL VERIFY AND BE RESPONSIBLE FOR ALL DIMENSIONS AND CONDITIONS ON THE JOB, AND THIS OFFICE SHALL BE NOTIFIED OF ANY VARIATIONS FROM THE DIMENSIONS AND CONDITIONS SHOWN BY THESE DRAWINGS.		☐ FOR PRELIMINARY REVIEW: THESE DRAWINGS, BEING FOR PRELIMINARY REVIEW, ARE BY DEFINITION NOT FINAL, AND ARE FOR CONCEPTUAL REPRESENTATION ONLY. THEIR PURPOSE IS TO CONFIRM PROPER INTERPRETATION OF THE PROJECT DOCUMENTS. ONLY DRAWINGS ISSUED "FOR CONSTRUCTION" CAN BE CONSIDERED AS COMPLETE.		☒ FOR CONSTRUCTION PERMIT		☐ FOR ERECTOR/INSTALLATION		PROJECT: 80'-0" X 80'-0" X 17'-3" 1:12		5	
								ADDRESS: 18700 N. SAINT GABRIEL WAY MARICOPA, AZ. 85138		DATE: 10/29/24	
								DSGN: AC		SCALE: NONE	
								DWN: GRM		M27322-24 144	
								DET:			





RIGID FRAME ELEVATION: FRAME LINE 1 & 5

▽ FLANGE BRACES: ONE SIDE
FBxxA(1): xx=length(in)
A - L15X1/8

MEMBER TABLE					
Mark	Web Depth	Web Plate	Outside Flange	Inside Flange	
	Start/End	Thick	Length	W x Thk x Length	W x Thk x Length
RF1-1	18.0/18.0	0.188	144.0	8 x 1/4" x 198.3	8 x 3/8" x 178.4
RF1-2	18.0/18.0	0.188	55.9	8 x 1/4" x 18.3	
RF1-3	18.0/18.0	0.135	144.0	6 x 1/4" x 240.0	6 x 1/4" x 218.2
RF1-4	18.0/18.0	0.135	144.0	6 x 1/4" x 149.6	6 x 1/4" x 159.8
RF1-5	18.0/23.9	0.135	103.1		
EC-1	W08542			6 x 1/4" x 71.8	6 x 1/4" x 67.0
EC-2	W10542			6 x 1/4" x 71.7	6 x 1/4" x 67.0
EC-3	W08542				

CAP PLATE BOLTS				
Mark	Qty	Type	Dia	Length
EC-1	4	A325	0.625	2.00
EC-2	4	A325	0.625	2.00
EC-3	4	A325	0.625	2.00

ALTERNATE MEMBER		
Frame Line	OID	Mark
5	A	EC-3
	B	EC-1

SPLICE PLATE & BOLT TABLE									
Mark	Qty	Top	Bot	Int	Type	Dia	Length	Width	Thick
SP-1	4	4	0	0	A325	1.000	2.75	8"	5/8"
SP-2	4	4	0	0	A325	0.750	2.00	6"	3/8"

DRAWING NOTES

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DRAWING STATUS

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☒ FOR CONSTRUCTION PERMIT

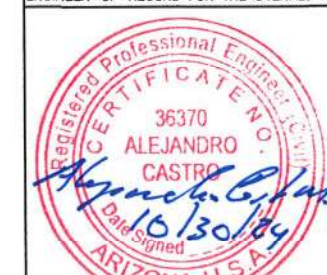
☐ FOR ERECTOR/INSTALLATION

NO.	REVISED	BY	DATE
1			
2			
3			
4			
5			

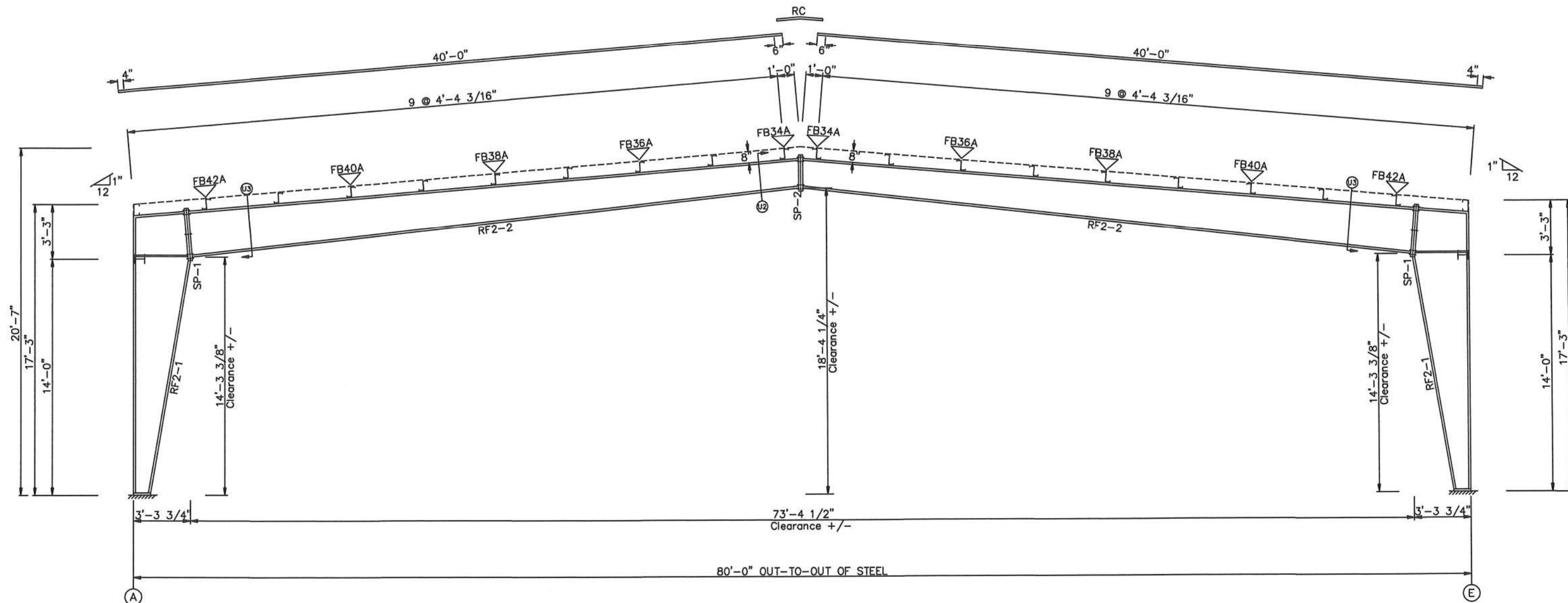


CUSTOMER: OUR LADY OF GRACE CHURCH				DRAWING	
ADDRESS: 18700 N. SAINT GABRIEL WAY MARICOPA, AZ. 85138				6	
DESIGN: AC				DATE: 10/29/24	
DWN: GRM					
DET:					
SCALE: NONE					
M27322-24144					

THE UNDERSIGNED ENGINEER IS NOT THE ENGINEER-OF-RECORD FOR THE OVERALL PROJECT



Expires: 6/30/25



RIGID FRAME ELEVATION: FRAME LINE 2 3 4

MEMBER TABLE					
Mark	Web Depth Start/End	Web Plate Thick	Length	Outside Flange W x Thk x Length	Inside Flange W x Thk x Length
RF2-1	9.0/34.8	0.188	144.0	8 x 3/8" x 198.1	8 x 3/8" x 170.2
	34.8/38.3	0.188	19.6	8 x 3/8" x 36.7	
	38.3/39.0	0.313	37.5		
RF2-2	30.0/26.1	0.188	144.0	6 x 5/16" x 167.0	6 x 1/2" x 167.0
	26.1/22.2	0.188	144.0	6 x 1/4" x 240.0	6 x 1/4" x 240.0
	22.2/18.3	0.188	143.0	6 x 1/4" x 36.0	6 x 1/4" x 34.6
	18.3/18.0	0.188	12.0		

FLANGE BRACES: Both Sides(U.N.)
 FBxxA(1): xx=length(in)
 A - L15X1/8

SPLICE PLATE & BOLT TABLE									
Mark	Qty	Top	Bot	Int	Type	Dia	Length	Width	Thick
SP-1	4	4	2	A325	1.000	3.00	8"	3/4"	3'-1 3/16"
SP-2	4	4	0	A325	0.750	2.25	6"	1/2"	2'-0 9/16"

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☒ FOR CONSTRUCTION PERMIT
☐ FOR ERECTOR/INSTALLATION

NO.	REVISED:	BY:	DATE:
1			
2			
3			
4			
5			



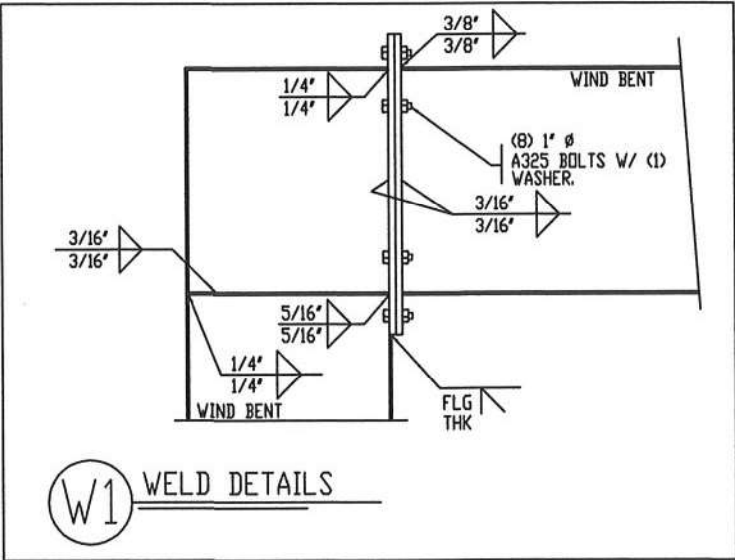
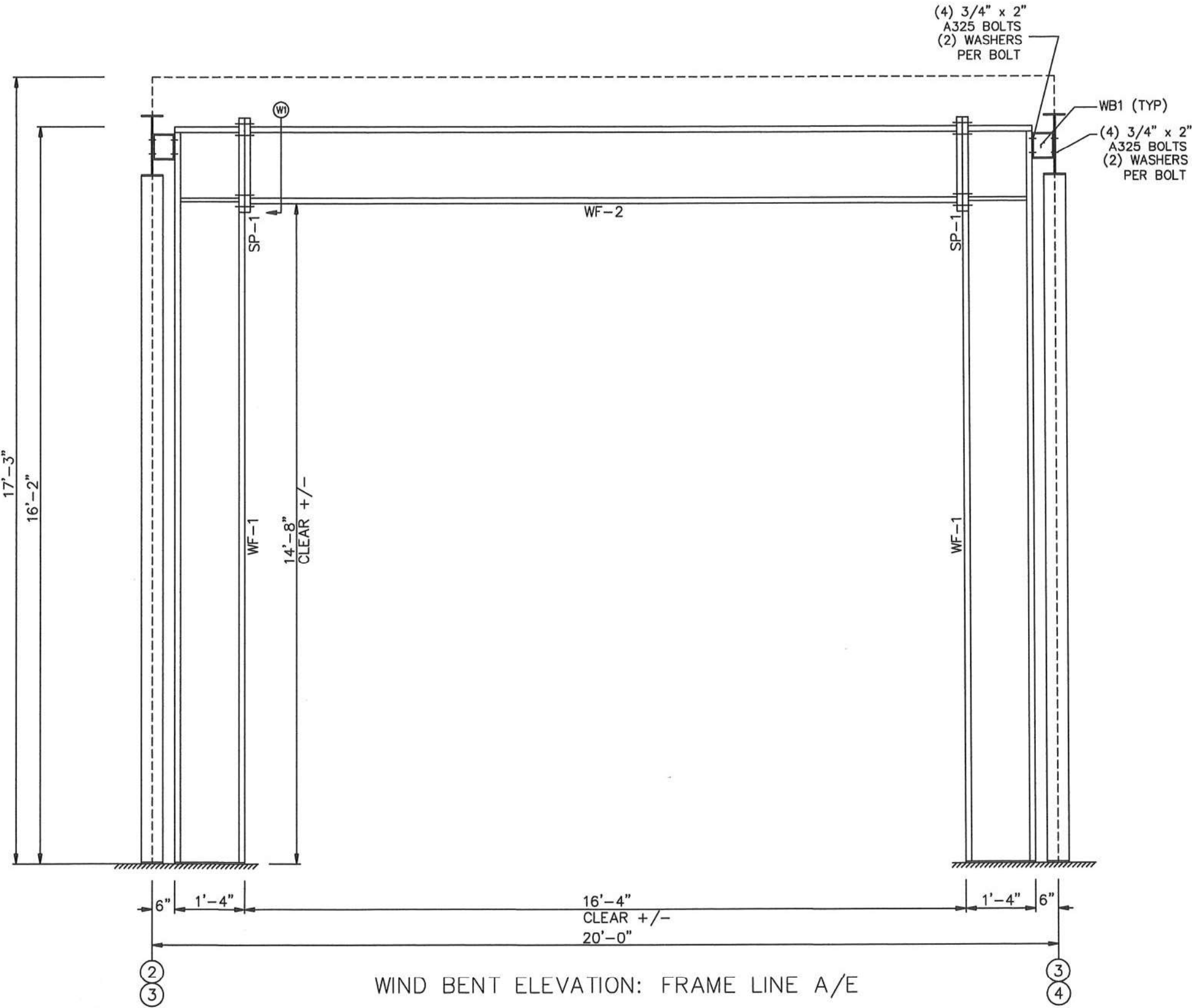
CUSTOMER: **OUR LADY OF GRACE CHURCH**
 ADDRESS: 80'-0" X 80'-0" X 17'-3" 1:12
 ADDRESS: 18700 N. SAINT GABRIEL WAY MARICOPA, AZ. 85138
 DSGN: AC
 DWN: GRM
 DET: NONE
M27322-24144

DRAWING
7
DATE:
10/29/24



SPLICE PLATES & BOLTS									
Splice Mark	Quan	Top/Bot	Type	Bolt Dia	Bolt Length	Plate Size			
						Width	Thick	Length	
SP- 1	4	4	A325	1.000	2.75	8"	5/8"	2'-0 3/8"	

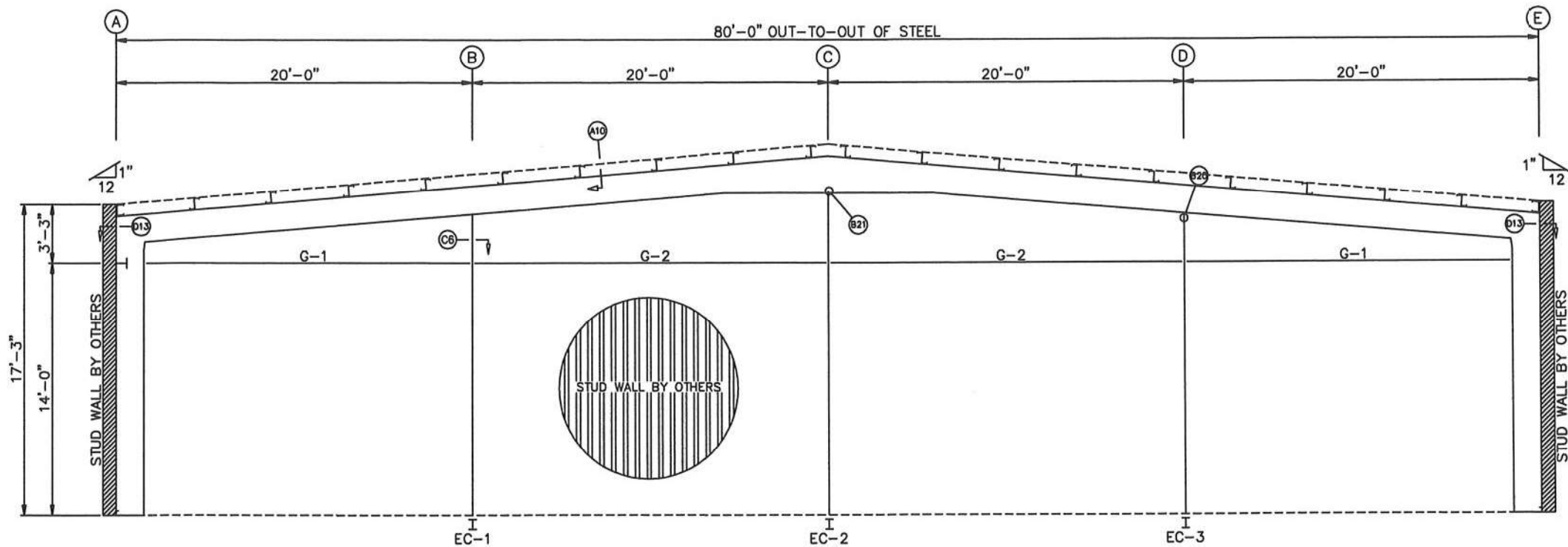
MEMBER SIZE TABLE		
MARK	MEMBER	LENGTH
WF-2	W18664	16'-3 1/4"
WF-1	W16842	16'-2"



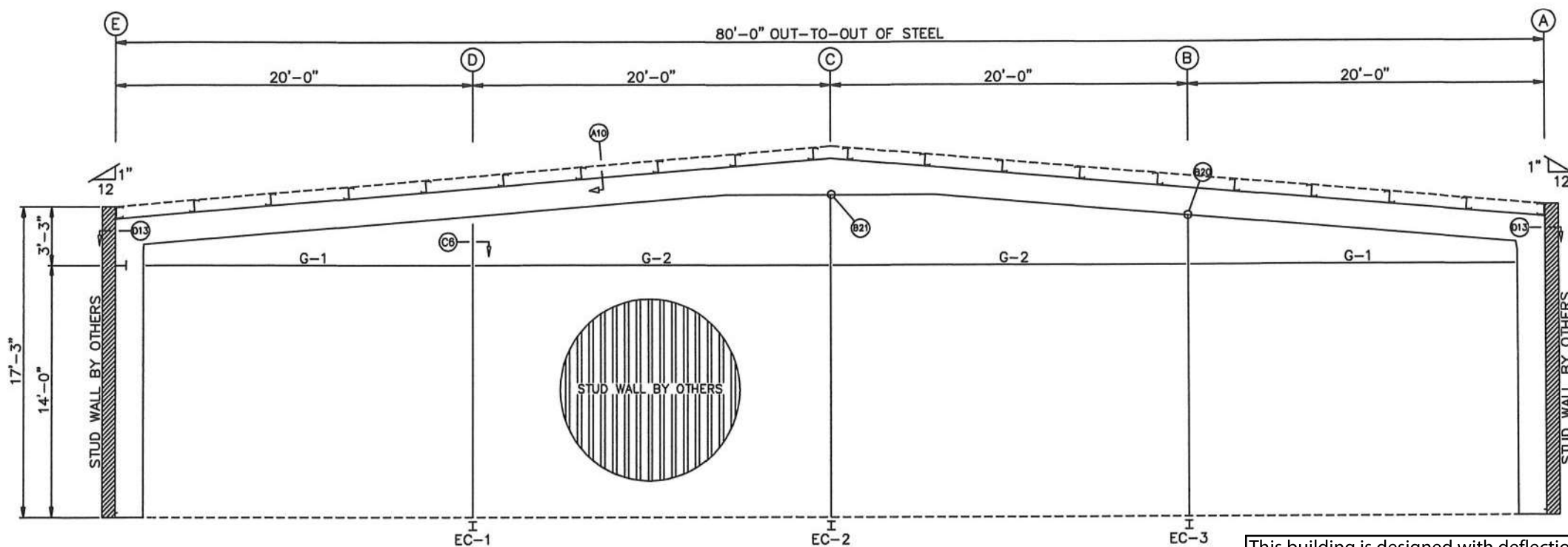
THE UNDERSIGNED ENGINEER IS NOT THE ENGINEER-OF-RECORD FOR THE OVERALL PROJECT

CERTIFICATE NO. 36370
ALEJANDRO CASTRO
 Registered Professional Engineer (Civil)
 Date Signed 10/30/24
 ARIZONA U.S.A.
 Expires: 6/30/25

DRAWING NOTES THESE DRAWINGS ARE INSTRUMENTS OF SERVICE AND ARE THE PROPERTY OF MANUFACTURER ALL DESIGNS AND OTHER INFORMATION ON THE DRAWINGS ARE FOR THE USE OF THE SPECIFIED PROJECT AND SHALL NOT BE USED OTHERWISE WITHOUT THE EXPRESSED WRITTEN PERMISSION OF MANUFACTURER. WRITTEN DIMENSIONS ON THESE DRAWINGS SHALL HAVE PRESEDENCE OVER SCALED DIMENSIONS. CONTRACTORS SHALL VERIFY AND BE RESPONSIBLE FOR ALL DIMENSIONS AND CONDITIONS ON THE JOB, AND THIS OFFICE SHALL BE NOTIFIED OF ANY VARIATIONS FROM THE DIMENSIONS AND CONDITIONS SHOWN BY THESE DRAWINGS.	DRAWING STATUS ☐ FOR PRELIMINARY REVIEW: THESE DRAWINGS, BEING FOR PRELIMINARY REVIEW, ARE BY DEFINITION NOT FINAL, AND ARE FOR CONCEPTUAL REPRESENTATION ONLY. THEIR PURPOSE IS TO CONFIRM PROPER INTERPRETATION OF THE PROJECT DOCUMENTS. ONLY DRAWINGS ISSUED "FOR CONSTRUCTION" CAN BE CONSIDERED AS COMPLETE. ☒ FOR CONSTRUCTION PERMIT ☐ FOR ERECTOR/INSTALLATION		NO.: 1 REVISED: 1 2 3 4 5	BY: 1 2 3 4 5	DATE: 1 2 3 4 5		CUSTOMER: OUR LADY OF GRACE CHURCH ADDRESS: - PROJECT: 80'-0" X 80'-0" X 17'-3" 1:12 ADDRESS: 18700 N. SAINT GABRIEL WAY MARICOPA, AZ. 85138 DSGN: AC DWN: GRM DET:	SCALE: NONE M27322-24 144 DATE: 10/29/24
							DRAWING 8	



LEFT ENDWALL FRAMING: FRAME LINE 1
MAX. WALL ASSEMBLY WEIGHT NOT TO EXCEED= 60PSF



RIGHT ENDWALL FRAMING: FRAME LINE 5
MAX. WALL ASSEMBLY WEIGHT NOT TO EXCEED= 60PSF

This building is designed with deflections shown in calculation & drawings on sheet 4. It is not designed for CMU walls or stucco.

MEMBER TABLE FRAME LINE 1/5		
MARK	PART	LENGTH
EC-1	W08542	16'-6 1/2"
EC-2	W10542	18'-2 1/4"
EC-3	W08542	16'-6 1/2"
G-1	W08542	18'-2 1/2"
G-2	W08542	19'-6 1/2"

NOTES:

- * CONTACT GENERAL STEEL, CORP. PRIOR TO PROCEEDING WITH ANY MODIFICATIONS TO THE BUILDING.
- * THIS BUILDING IS DESIGNED AS PARTIALLY ENCLOSED. ANY ACCESSORIES (DOORS, WINDOWS, VENTS, ETC) MUST BE RATED TO MEET THE SAME WIND CRITERIA AS THIS BUILDING.

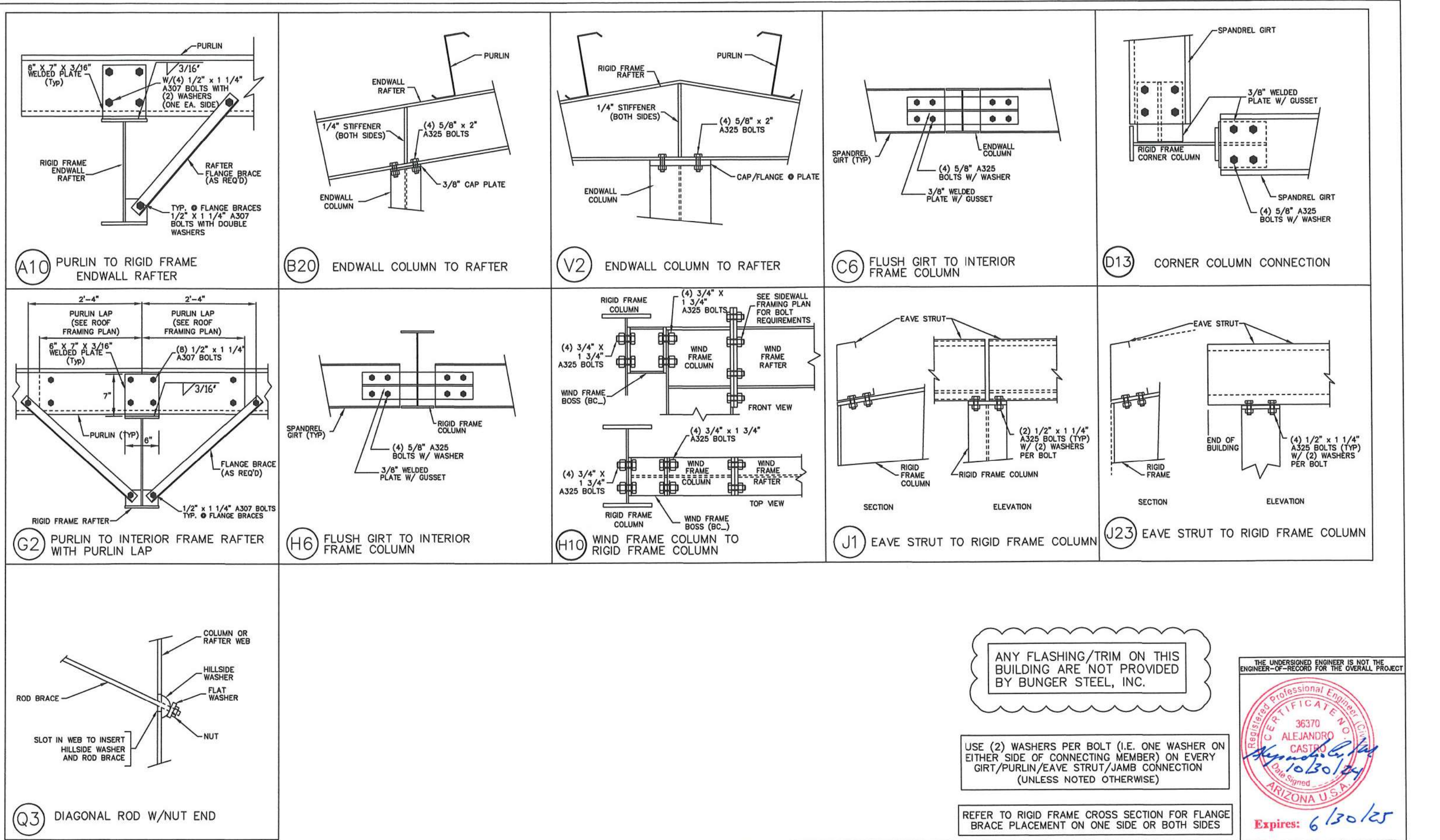
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Expires: 6/30/25

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		☒ FOR CONSTRUCTION PERMIT		△				ADDRESS: 18700 N. SAINT GABRIEL WAY MARICOPA, AZ. 85138		DATE: 10/29/24	
		☐ FOR ERECTOR/INSTALLATION		△				DSGN: AC		SCALE: NONE	
				△				DWN: GRM		M27322-24 144	
				△				DET:			





ANY FLASHING/TRIM ON THIS BUILDING ARE NOT PROVIDED BY BUNGER STEEL, INC.

USE (2) WASHERS PER BOLT (I.E. ONE WASHER ON EITHER SIDE OF CONNECTING MEMBER) ON EVERY GIRT/PURLIN/EAVE STRUT/JAMB CONNECTION (UNLESS NOTED OTHERWISE)

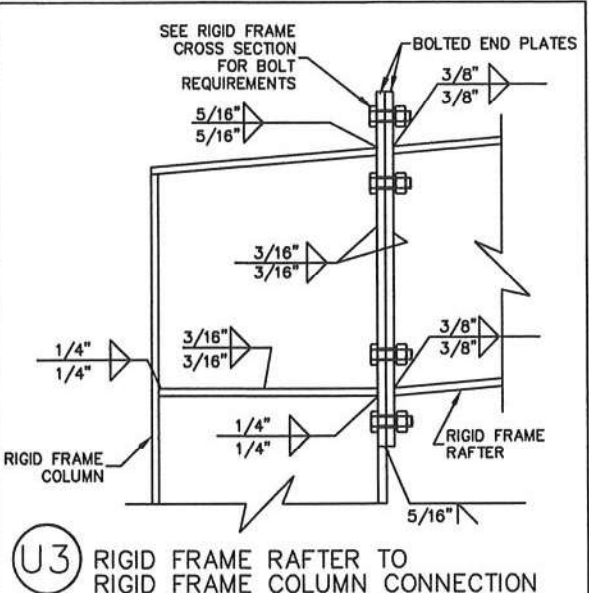
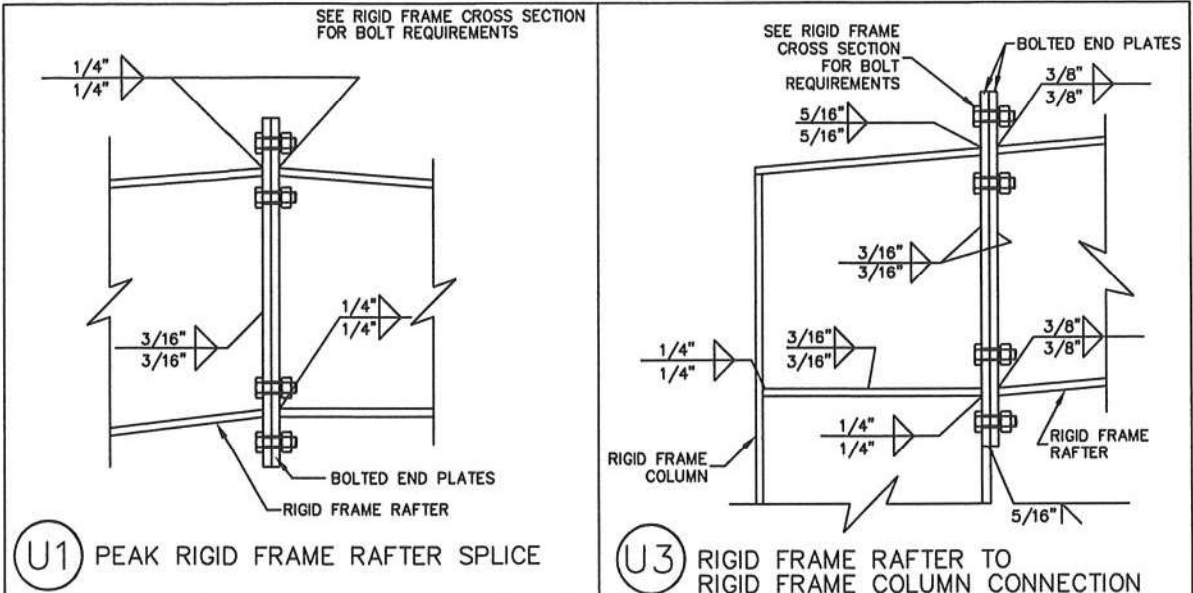
REFER TO RIGID FRAME CROSS SECTION FOR FLANGE BRACE PLACEMENT ON ONE SIDE OR BOTH SIDES

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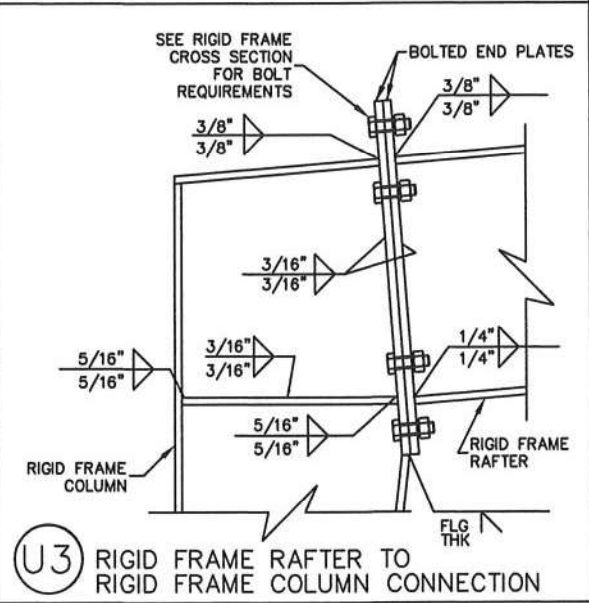
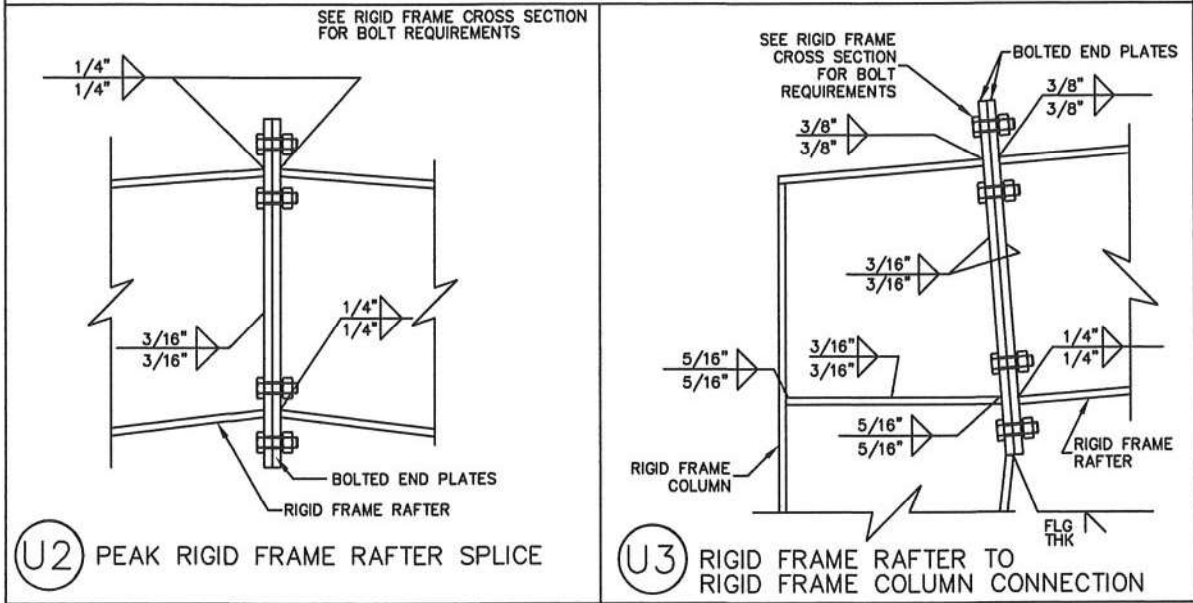
Professional Engineer Seal for Alejandro Castro, License No. 36370, State of Arizona. Signature: Alejandro Castro, Date: 10/30/24. Expires: 6/30/25.

DRAWING NOTES		DRAWING STATUS		NO. REVISED		BY DATE		CUSTOMER		DRAWING	
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		☒ FOR CONSTRUCTION PERMIT		3				PROJECT: 18700 N. SAINT GABRIEL WAY MARICOPA, AZ. 85138			
		☐ FOR ERECTOR/INSTALLATION		4				DSGN: AC SCALE: NONE			
				5				DWN: GRM			
				6				DET:			
				7				M27322-24144			





FRAME LINES 1 & 5



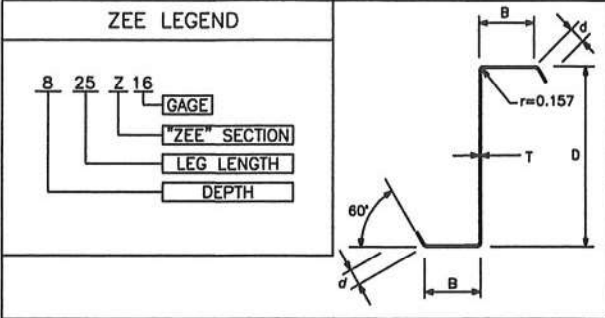
FRAME LINES 2 3 4

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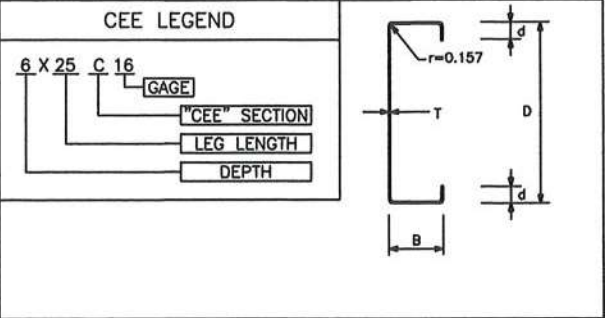


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		☒ FOR CONSTRUCTION PERMIT		2					PROJECT: 80'-0" X 80'-0" X 17'-3" 1:12			
				3					ADDRESS: 18700 N. SAINT GABRIEL WAY MARICOPA, AZ. 85138			
				4					DSGN: AC		DATE: 10/29/24	
		☐ FOR ERECTOR/INSTALLATION		5					DWN: GRM		SCALE: NONE	
				6					DET:		M27322-24 144	



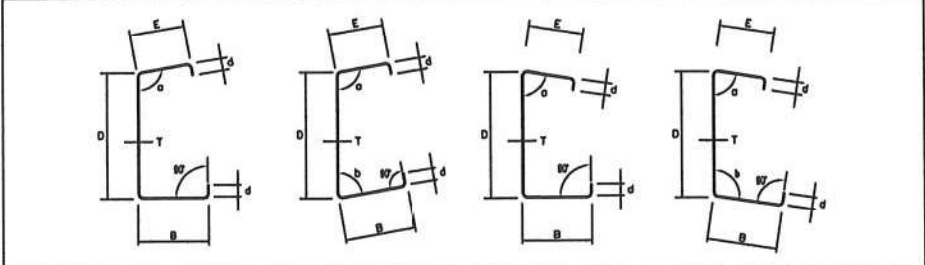


ZEE SECTION-----PROFILE AND DIMENSIONS							
SECTION DEPTH & SIZE	DEPTH (D)IN.	RANGE (B)IN.	LIP (d)IN.	THICK (T)IN.	Sx IN ³	Ix IN ⁴	Fy ksi
6X25Z16	6.000	2.500	0.7500	0.059	1.424	4.271	50
6X25Z14	6.000	2.500	0.7500	0.075	1.767	0.075	50
8X25Z16	8.000	2.500	0.7500	0.059	2.138	8.43	50
8X25Z14	8.000	2.500	0.7500	0.075	2.525	10.102	50
8X25Z12	8.000	2.500	0.7500	0.099	3.509	14.036	50
8X35Z14	8.000	3.500	0.7500	0.075	3.110	12.441	50
8X35Z12	8.000	3.500	0.7500	0.099	4.305	17.222	50
10X25Z16	10.000	2.500	0.7500	0.059	2.445	9.875	50
10X25Z14	10.000	2.500	0.7500	0.075	3.737	17.984	50
10X25Z12	10.000	2.500	0.7500	0.099	4.915	25.574	50
12X35Z16	12.000	3.500	0.7500	0.059	3.115	17.721	50
12X35Z14	12.000	3.500	0.7500	0.075	5.338	32.025	50
12X35Z12	12.000	3.500	0.7500	0.099	7.442	44.654	50

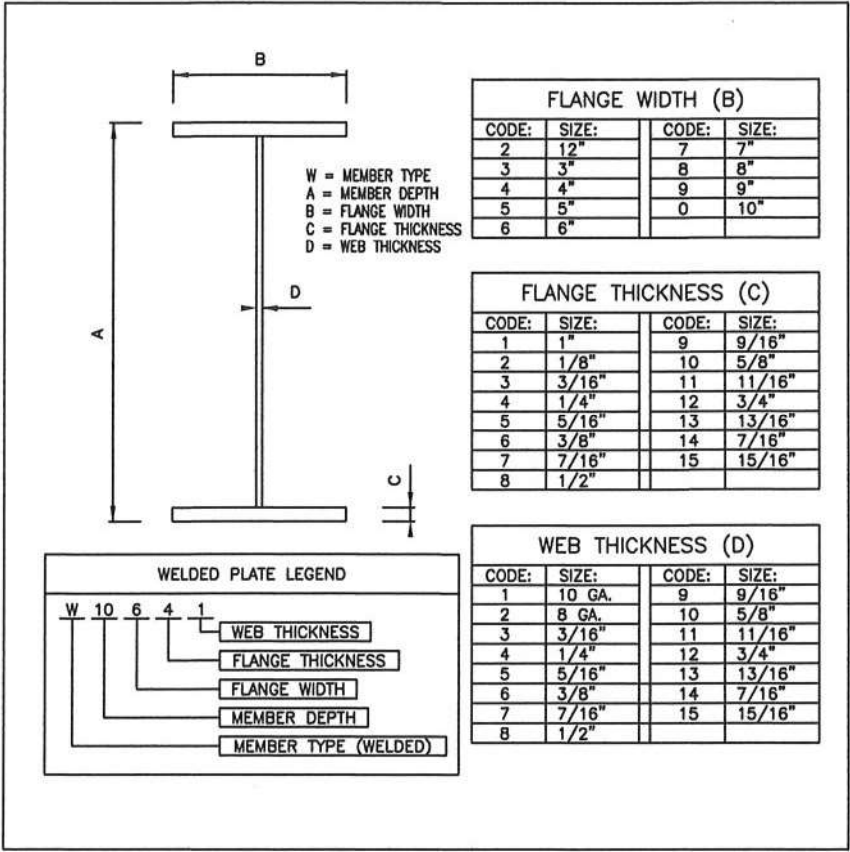


CEE SECTION-----PROFILE AND DIMENSIONS							
SECTION DEPTH & SIZE	DEPTH (D)IN.	RANGE (B)IN.	LIP (d)IN.	THICK (T)IN.	Sx IN ³	Ix IN ⁴	Fy ksi
6X25C16	6.000	2.500	0.7500	0.059	1.344	4.033	50
6X25C14	6.000	2.500	0.7500	0.075	1.662	4.985	50
8X25C16	8.000	2.500	0.7500	0.059	1.750	7.600	50
8X25C14	8.000	2.500	0.7500	0.075	2.300	9.870	50
8X25C12	8.000	2.500	0.7500	0.099	3.470	13.900	50
8X35C14	8.000	3.500	0.7500	0.075	3.047	12.188	50
8X35C12	8.000	3.500	0.7500	0.099	3.574	16.921	50
10X25C14	10.000	2.500	0.7500	0.075	3.150	16.820	50
10X25C12	10.000	2.500	0.7500	0.099	4.750	23.740	50
12X35C14	12.000	3.500	0.7500	0.075	5.231	31.387	50
12X35C12	12.000	3.500	0.7500	0.099	7.397	44.379	50

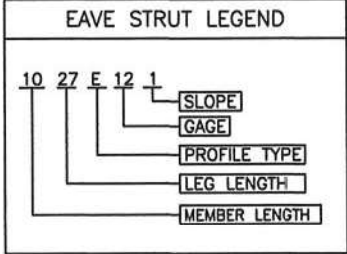
PITCH CODE TABLE			
PITCH	APPLICABLE ROOF SLOPE	DEGREES (a)	DEGREES (b)
1 TO 12	>0 THROUGH 1 1/2	95	85
2 TO 12	>1 1/2 THROUGH 2 1/2	99	81
3 TO 12	>2 1/2 THROUGH 3 1/2	104	76
4 TO 12	>3 1/2 THROUGH 4 1/2	108	72
5 TO 12	>4 1/2 THROUGH 5 1/2	113	67
6 TO 12	>5 1/2 THROUGH 6 1/2	117	63



STRUT SECTION-----PROFILE AND DIMENSIONS										
SECTION	NOMINAL DEPTH (D)IN.	FLANGE (B)IN.		FLANGE (E)IN.		LIPS (d)IN.	THICK (T)IN.	Sx IN ³	Ix IN ⁴	Fy ksi
0827E141	8.000	2.500	5.000	2.500	5.000	1.000	0.070	2.507	10.030	50
0827E121	8.000	2.500	5.000	2.500	5.000	1.000	0.099	3.477	13.909	50
0850E141	8.000	2.500	5.000	2.500	5.000	1.000	0.070	3.745	14.982	50
0850E121	8.000	2.500	5.000	2.500	5.000	1.000	0.099	5.215	20.861	50
1027E141	10.000	2.500	5.000	2.500	5.000	1.000	0.070	3.404	17.020	50
1027E121	10.000	2.500	5.000	2.500	5.000	1.000	0.099	4.731	23.656	50
1050E141	10.000	2.500	5.000	2.500	5.000	1.000	0.070	4.957	24.785	50
1050E121	10.000	2.500	5.000	2.500	5.000	1.000	0.099	6.915	34.574	50
1227E141	12.000	2.500	5.000	2.500	5.000	1.000	0.070	4.696	28.176	50
1227E121	12.000	2.500	5.000	2.500	5.000	1.000	0.099	6.468	38.808	50
1250E141	12.000	2.500	5.000	2.500	5.000	1.000	0.070	6.696	40.174	50

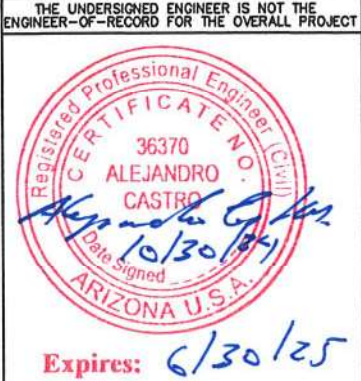


CONNECTION PLATES	
MARK/PART	DIMENSIONS
4085	2 3/4" x 2 3/4" x 1/4"
n1	2 3/4" x 2 3/4" x 3/16"
4013	2 3/4" x 5 3/4" x 3/16"
4015	2 3/4" x 3 1/4" x 3/16"
4011	6" x 10 1/2" x 3/16"
f2	2 3/4" x 2 3/4" x 3/16"
n2	2 3/4" x 2 3/4" x 3/16"
4094	2 3/4" x 3" x 1/8"



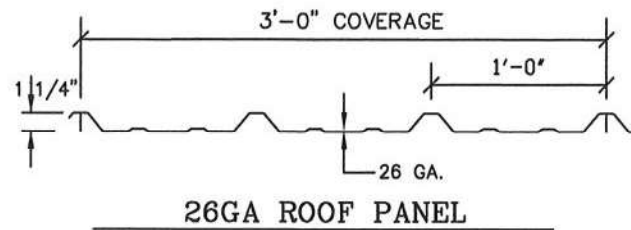
EAVE STRUT TYPE	
L	LOW SIDE
H	HIGH SIDE

NOMINAL DEPTH		GAGE	
08	8"	6	16 GA
10	10"	4	14 GA
12	12"	2	12 GA
PROFILE TYPE			
E	PITCHED BOTTOM		
F	FLAT BOTTOM		
SLOPE			
18	1/8"	58	5/8"
28	1/4"	68	3/4"
38	3/8"	78	7/8"
48	1/2"		



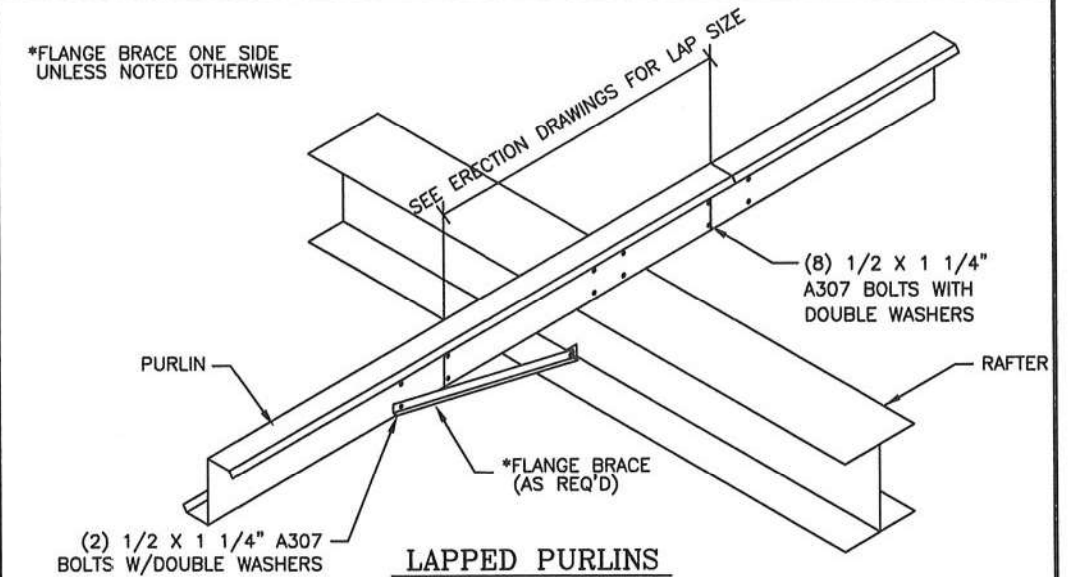
DRAWING NOTES		DRAWING STATUS		NO. REVISED:		BY:		DATE:		CUSTOMER: OUR LADY OF GRACE CHURCH		DRAWING	
THESE DRAWINGS ARE INSTRUMENTS OF SERVICE AND ARE THE PROPERTY OF MANUFACTURER. ALL DESIGNS AND OTHER INFORMATION ON THE DRAWINGS ARE FOR THE USE OF THE SPECIFIED PROJECT AND SHALL NOT BE USED OTHERWISE WITHOUT THE EXPRESSED WRITTEN PERMISSION OF MANUFACTURER. WRITTEN DIMENSIONS ON THESE DRAWINGS SHALL HAVE PRECEDENCE OVER SCALED DIMENSIONS. CONTRACTORS SHALL VERIFY AND BE RESPONSIBLE FOR ALL DIMENSIONS AND CONDITIONS ON THE JOB, AND THIS OFFICE SHALL BE NOTIFIED OF ANY VARIATIONS FROM THE DIMENSIONS AND CONDITIONS SHOWN BY THESE DRAWINGS.		☐ FOR PRELIMINARY REVIEW: THESE DRAWINGS, BEING FOR PRELIMINARY REVIEW, ARE BY DEFINITION NOT FINAL, AND ARE FOR CONCEPTUAL REPRESENTATION ONLY. THEIR PURPOSE IS TO CONFIRM PROPER INTERPRETATION OF THE PROJECT DOCUMENTS. ONLY DRAWINGS ISSUED "FOR CONSTRUCTION" CAN BE CONSIDERED AS COMPLETE.		NO. 1		BY: [Signature]		DATE: [Date]		ADDRESS: 80'-0" X 80'-0" X 17'-3" 1:12		13	
☒ FOR PERMIT (APPROVAL SET): THESE DRAWINGS, BEING FOR PERMIT, ARE BY DEFINITION NOT FINAL IN THAT, AS A MINIMUM, PIECE MARKINGS ARE NOT IDENTIFIED. ONLY DRAWINGS ISSUED "FOR CONSTRUCTION" CAN BE CONSIDERED AS COMPLETE.		☐ FOR CONSTRUCTION: FINAL DRAWINGS		NO. 2		BY: [Signature]		DATE: [Date]		ADDRESS: 18700 N. SAINT GABRIEL WAY MARICOPA, AZ. 85138		DATE: 10/29/24	
				NO. 3		BY: [Signature]		DATE: [Date]		DSGN: AC		SCALE: NONE	
				NO. 4		BY: [Signature]		DATE: [Date]		DWN: GRM		M27322-24144	
				NO. 5		BY: [Signature]		DATE: [Date]		DET: [Signature]			





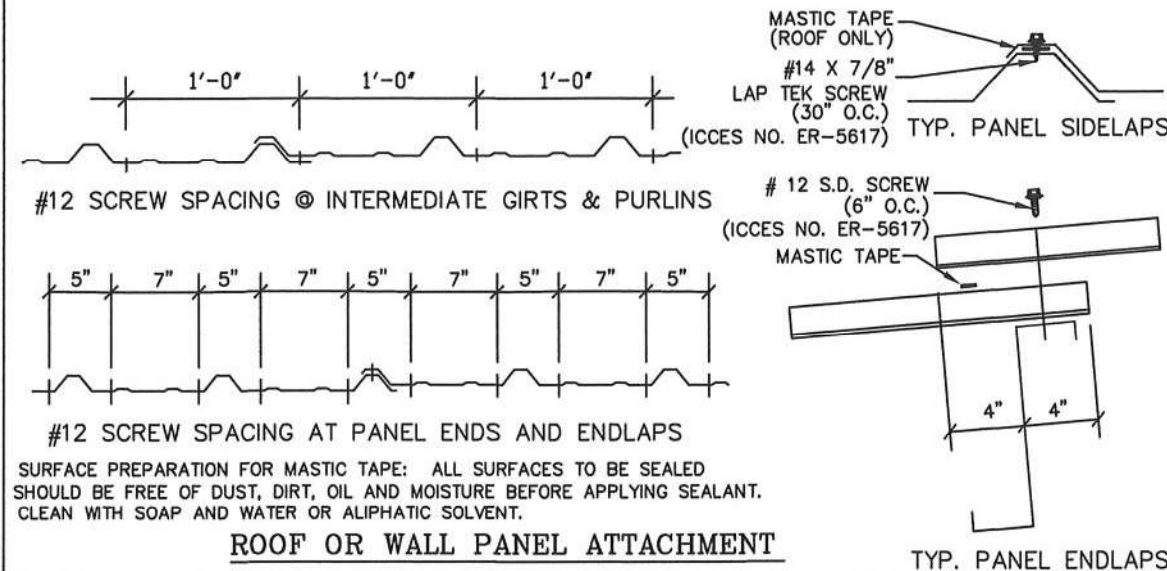
*Fy=80,000 REDUCED TO 60ksi IN ACCORDANCE WITH THE 2001 EDITION OF THE NORTH AMERICAN SPECIFICATION FOR DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS (A2.3.2)

SECTION PROPERTIES				
Fy (PSI)	Fb (PSI)	MATERIAL THICKNESS	WEIGHT (PSF)	GIRTH (IN.)
*60,000	30,000	.0198	0.94	41.56
		Ix (IN. ⁴ /FT.)	Sx (IN. ³ /FT.)	
		TOP FLAT IN COMPRESSION	BOTTOM FLAT IN COMPRESSION	
		.0302	.0511	.0369 .0372



LEGEND

PBR26	8" X 2 1/2" X 16GA. "C" MEMBER
8x25C16	8" X 2 1/2" X 14GA. "C" MEMBER
8x25C14	8" X 2 1/2" X 12GA. "C" MEMBER
8x25C12	10" X 2 1/2" X 14GA "C" MEMBER
10X25C14	10" X 2 1/2" X 12GA. "C" MEMBER
10X25C12	10" X 3 1/2" X 14GA. "C" MEMBER
10x35C14	10" X 3 1/2" X 12GA. "C" MEMBER
12X35C14	12" X 3 1/2" X 14GA "C" MEMBER
12X35C12	12" X 3 1/2" X 12GA "C" MEMBER
8X25Z16	8" X 2 1/2" X 16GA. "Z" MEMBER
8x25Z14	8" X 2 1/2" X 14GA. "Z" MEMBER
8x25Z12	8" X 2 1/2" X 12GA. "Z" MEMBER
10X25Z14	10" X 2 1/2" X 14GA "Z" MEMBER
10X25Z12	10" X 2 1/2" X 12GA. "Z" MEMBER
10x35Z14	10" X 3 1/2" X 14GA. "Z" MEMBER
10X35Z12	10" X 3 1/2" X 12GA. "Z" MEMBER
12X35Z14	12" X 3 1/2" X 14GA "Z" MEMBER
12X35Z12	12" X 3 1/2" X 12GA "Z" MEMBER
827E14	8" X 2 3/4" X 5" X 14GA EAVE STRUT
827E12	8" X 2 3/4" X 5" X 12GA EAVE STRUT
850E14	8" X 5" X 5" X 14GA EAVE STRUT
850E12	8" X 5" X 5" X 12GA EAVE STRUT
1027E14	10" X 2 3/4" X 5" X 14GA EAVE STRUT
1027E12	10" X 2 3/4" X 5" X 12GA EAVE STRUT
1050E14	10" X 5" X 5" X 14GA EAVE STRUT
1050E12	10" X 5" X 5" X 12GA EAVE STRUT
1227E14	12" X 2 3/4" X 5" X 14GA EAVE STRUT
1227E12	12" X 2 3/4" X 5" X 12GA EAVE STRUT
RA/BA	ANGLE 2" X 4" X 16GA.
A - L15x1/8	ANGLE 1 1/2"x1 1/2"x1/8"
FB33A	FLANGE BRACE
CBL250	HIGH STRENGTH CABLE 1/4" DIA.
CBL313	HIGH STRENGTH CABLE 5/16" DIA.
CBL375	HIGH STRENGTH CABLE 3/8" DIA.
CBL500	HIGH STRENGTH CABLE 1/2" DIA.
RC	DIE-FORMED RIDGE CAP
EC-1	EC-1 INDICATES PART NUMBER



A325 BOLT TIGHTENING INSTRUCTIONS

NUT ROTATION FROM SNUG TIGHT CONDITIONS

BOLT LENGTH (AS MEASURED FROM UNDER SIDE OF HEAD TO EXTREME END OF POINT)	BOLT DIA.			BOTH FACES NORMAL TO BOLT AXIS
	7/8" DIA.	3/4" DIA.	5/8" DIA.	
	UP TO 3 1/2"	UP TO 2 1/2"	UP TO 3"	
	3 1/2" TO 7"	2 1/2" TO 5"	3" TO 6"	1/2 TURN

NUT ROTATION IS RELATIVE TO BOLT, REGARDLESS OF THE ELEMENT (NUT OR BOLT) BEING TURNED. FOR BOLTS INSTALLED BY 1/2 TURN AND LESS, THE TOLERANCE SHOULD BE PLUS OR MINUS 30°.

DRAWING NOTES

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DRAWING STATUS

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☐	FOR CONSTRUCTION: FINAL DRAWINGS

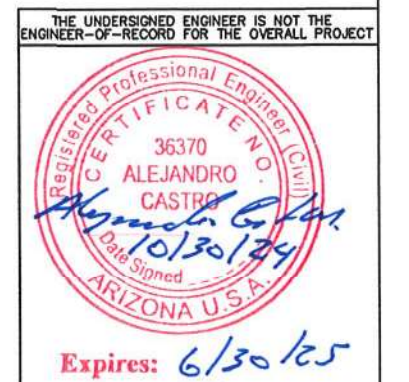
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BY: DATE:

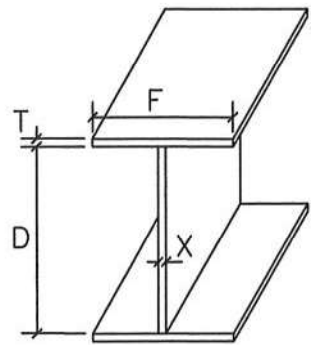


CUSTOMER:	OUR LADY OF GRACE CHURCH
ADDRESS:	-
PROJECT:	80'-0" X 80'-0" X 17'-3" 1:12
ADDRESS:	18700 N. SAINT GABRIEL WAY MARICOPA, AZ. 85138
DSGN: AC	SCALE: NONE
DWN: GRN	M27322-24144
DET:	

DRAWING	14
DATE:	10/29/24



Built Up Section



NOTATION = WDFTX

W = INDICATED WELDED SECTION
D = MEMBER DEPTH
F = FLANGE WIDTH
 $\frac{T}{16}$ = FLANGE THICKNESS
 $\frac{X}{16}$ = WEB THICKNESS

EXAMPLE:

W08542

DEPTH = 8"
FLANGE WIDTH = 5"
FLANGE THICKNESS = $\frac{4}{16}$ " OR $\frac{1}{4}$ "
WEB THICKNESS = $\frac{2}{16}$ " OR $\frac{1}{8}$ "

ABBREVIATIONS	
BA	Base Angle, L2x4x16 ga
SA	Sheet Angle, L2x4x16 ga
RA	Rake Angle, L2x4x16 ga
BG	Base Girt
FB	Flange Brace
RF1-1	Rigid Frame Part No.
EC-1	EW Column Part No.
ER-1	EW Rafter Part No.
G-1	Girt Part No.
P-1	Purlin Part No.
E-1	Eave Strut Part No.
DJ-1	Door Jamb Part No.
DH-1	Door Header Part No.
WB-1	Wind Beam Part No.
WF-1	Wind Frame Part No.
SC-1	Stub Column Part No.
BA-1	Bracing Angle Part No.
CBL313	5/16" Diam. Cable
CBL375	3/8" Diam. Cable
CBL500	1/2" Diam. Cable
BL	Building Line
CL	Center Line
PS-1	Die Formed Ridge Cap
RR	Ridge Roll
ET	Eave Trim
RT	Rake Trim
SRE	Rake Ends
PB	Peak Box
SG	Standard Gutter
DS	Downspout
CB	Corner Box
CT	Corner Trim
HT	Head Trim
JT	Jamb Trim

THE UNDERSIGNED ENGINEER IS NOT THE ENGINEER-OF-RECORD FOR THE OVERALL PROJECT

Registered Professional Engineer (Civil)

CERTIFICATE NO. 36370

ALEJANDRO CASTRO

10/30/24

ARIZONA U.S.A.

Expires: 6/30/25

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						PROJECT: 80'-0" X 80'-0" X 17'-3" 1:12 ADDRESS: 18700 N. SAINT GABRIEL WAY MARICOPA, AZ. 85138 DSGN: AC DWN: GRM DET: SCALE: NONE M27322-24144	DATE: 10/29/24	