



Number
U15S0716A
Name
Winterhaven Public Safety Facility
Location: City, County, State
Winterhaven, Imperial, CA
Customer
MPA Architects

Required Manuals

CFR Roof Sheeting
H9700 - Erection Manual
H9675 - Seaming Manual

Drawing Index

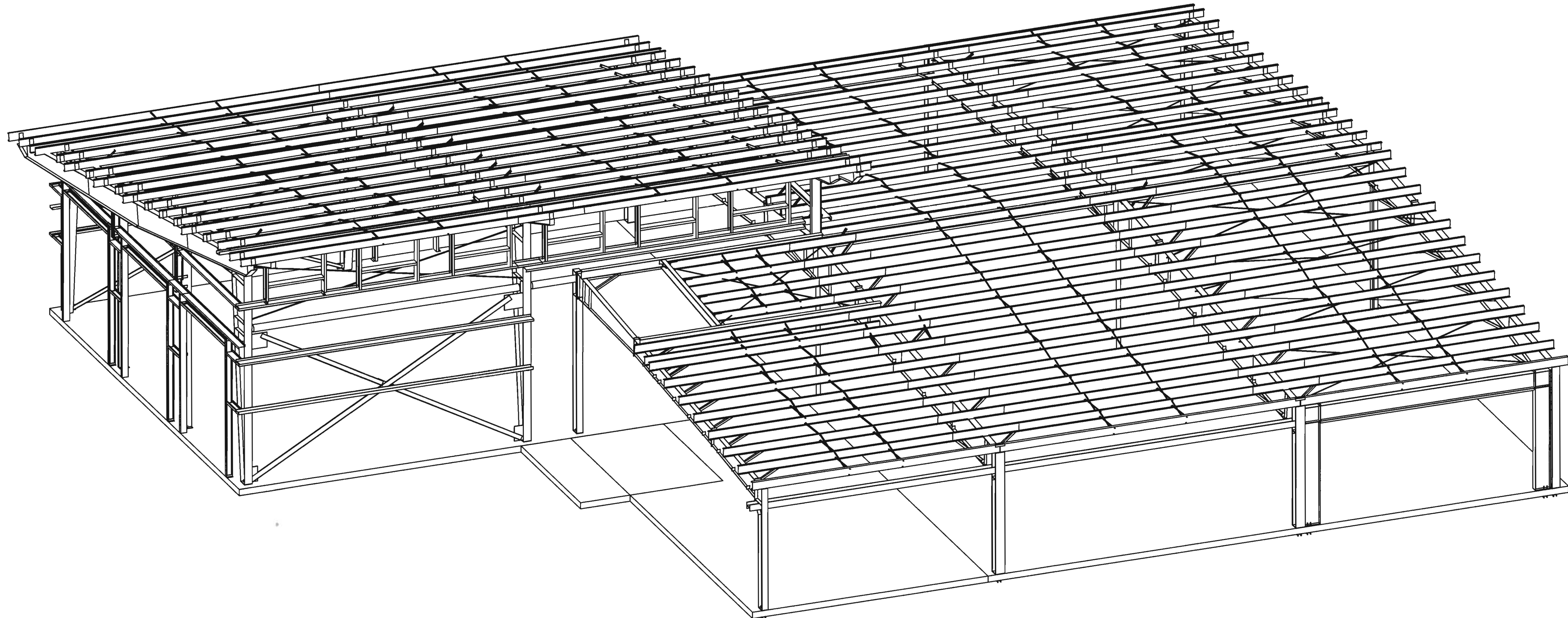
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REV 2

Sheeting Plans added to show insulated metal panel IMP1-IMP4
Sheeting Details added to show connections IMPD1-IMPD6

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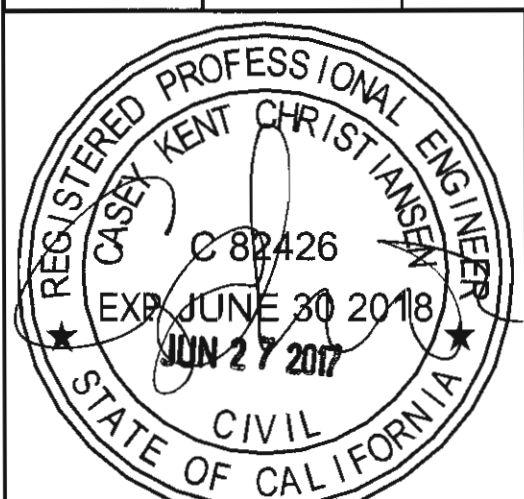
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DATE	ISSUE	CHK	ENG	FE
7/15/2016	SEM NDD	KMB	TKC	
11/22/2016	TKL SEM	KMB	RRS	
6/26/2017	CAY NVA	KMB	CKC	

NUCOR
BUILDING SYSTEMS GROUP
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Brigham City, UT 84302
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PROJECT NAME
Winterhaven Public Safety Facility
Winterhaven, Imperial, CA
CUSTOMER NAME
MPA Architects
San Diego, CA
JOB NUMBER
U15S0716A
SHEET TITLE
Coversheet



06/26/2017 07:41:25am
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SHEET
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Notes and Specifications:

Building Erection Notes

- 1) The general contractor and/or erector is responsible to safely and properly erect the metal building system in conformance with these drawings, OSHA requirements, and either MBMA or CSA S16 standards pertaining to proper erection. This includes, but is not limited to, the correct use of temporary guys and bracing where needed for squaring, plumbing, and securing the structural and secondary framing. Secondary wall framing members(girts or bar joists) are not designed to function as a work platform or provide safety tie off attachment in accordance with OSHA requirements. Secondary roof framing members (purlins or bar joists) are not designed to provide safety tie off attachment in accordance with OSHA requirements.
- 2) **A325 & A490 Bolt tightening requirements:**
It is the responsibility of the erector to ensure proper bolt tightness in accordance with applicable regulations. See the RCSC Specification for Structural Joints Using A325 or A490 Bolts or CAN/CSA S16 "Limit States Design of Steel Structures" for more information.
The following criteria may be used to determine the bolt tightness (i.e., "snug-tight" or "fully-pretensioned"), unless required otherwise by local jurisdiction or contract requirements:
A) All A490 bolts shall be "fully-pretensioned".
B) All A325 bolts in primary framing (rigid frames and bracing) may be "snug-tight", except as follows:
 "Fully-pretension" A325 bolts if:
 a) Building supports a crane system with a capacity greater than 5 tons.
 b) Building supports machinery that creates vibration, impact, or stress-reversals on the connections. The Engineer-of-Record for the project should be consulted to evaluate for this condition.
 c) The project site is located in a high seismic area. For IBC-based codes, "High Seismic Area" is defined as "Seismic Design Category" of 'D', 'E', or 'F'. See the "Building Loads" section on this page for the defined seismic design category for this project.
 d) Any connection designated in these drawings as "A325-SC". "Slip-Critical (SC)" connections must be free of paint, oil, or other materials that reduce friction at contact surfaces. Galvanized or lightly-rusted surfaces are acceptable.
C) In Canada, all A325 and A490 bolts shall be "fully-pretensioned", except for secondary members (purlins, girts, opening framing, etc.) and flange braces.
D) Secondary members (purlins, girts, opening framing, etc.) and flange brace connections may always be "snug-tight", unless indicated otherwise in these drawings.
- 3) The metal building supplier shall be notified prior to any field modifications. Modifications shall be approved by the metal building supplier before work is undertaken.
- 4) Common Abbreviations:
a) TYP UNO – Typical Unless Noted Otherwise f) SIM – Similar
b) SLV – Short Leg Vertical g) NIC – Not In Contract
c) LLV – Long Leg Vertical h) SL – Steel Line
d) NS & FS – Near Side and Far Side i) N/A – Not Applicable
e) O.A.L. – Overall Length j) MBS – Metal Bldg. Supplier
- 5) Construction loads shall not be placed on any structural steel framework unless such framework is safely bolted, welded, or otherwise adequately secured.
- 6) Purlins and girts shall not be used as an anchorage point for a fall arrest system unless written approval is obtained from the metal building supplier.
- 7) Purlins may only be used as a walking/working surface when installing safety systems, after all permanent bridging has been installed and fall protection is provided.
- 8) Construction loads may be placed only within a zone that is within 8 feet of the center line of the primary support member. CFR bundles should be placed directly over the rigid frames.
- 9) All lifting devices must meet OSHA or MSHA standards and in no case is it acceptable to use structural members supplied by the MBS as a spreader bar or lifting device.

General Design Notes

- 1) All structural steel sections and welded plate members are designed in accordance with ANSI/AISC 360 "Specifications for Structural Steel Buildings" or the CAN/CSA S16 "Limit States Design of Steel Structures", as required by the specified building code.
- 2) All welding of structural steel is based on either AWS D1.1 "Structural Welding Code - Steel" or CAN/CSA W59 "Welded Steel Construction (Metal Arc Welding)", as required by the specified building code.
- 3) All cold formed members are designed in accordance with ANSI/AISI S100 or CAN/CSA S136 "Specifications for the Design of Cold Formed Steel Structural Members", as required by the specified building code.
- 4) All welding of cold formed steel is based on AWS D1.3 "Structural Welding Code - Sheet Steel" or CAN/CSA W59 "Welded Steel Construction (Metal Arc Welding)", as required by the specified building code.
- 5) This Nucor Building Systems facility is IAS AC-472 Accredited and CAN/CSA A660 and W47.1 Certified (if applicable) for the design and manufacturing of Metal Building Systems.
- 6) If joists are included with this project, they are supplied as a part of the systems engineered metal building and are fabricated in accordance with the requirements of Section 1926.758 of the OSHA safety standards for steel erection, dated January 18, 2001.

Material Specifications

Plate and Flange Material:	
5"-12" Wide, To 1-4" Th.	— A529, Grade 55
Others	— A572 Grade 50
Built-Up Structural Web	— A1011 SS (or HSLAS Class 1) Grade 55
Hot-Rolled Structural	— A36 or A572 Grade 50 or A992 Grade 50
Structural Tube	— A500 Grade B (46 KSI)
Structural Pipe	— A500 Grade B (42 KSI)
Cold-Formed Structural	— A1011 or A1039 SS (or HSLAS Class 1) Grade 55
Classic Roof Panel	— A792 Grade 80
CFR / VR16 Roof Panel	— A792 Grade 50, Class 1
All Wall Panel Profiles	— A653 Grade 80, Class 1 or A792 Grade 80, Class 1
Rod Bracing	— A529 Grade 50
Welds	— AWS D1.1/D1.3 or CSA W59 per Building Code
High-Strength Bolts	— A325 Type 1 or A490 Type 1 Heavy Hex
Machine Bolts	— A307 Grade A Hex

Garage

Primary and Secondary Steel Primer Color

Red

Roof Sheeting

Type: CFR, 24 Gage, Finish: TBK

Roof Panel Clip Type: Tall Fixed

Thermal Blocks: Yes EPS Foam Spacers: No

Seaming Methods:

Roof insulation(NOT BY NBS). Thickness: 6.0

Roof Line Trim. Color: TBK

Gutters. Color: TBK

Downspouts. Color: TBK

Building Options

No Building Options Included.

Rake Extension

Projection: 2' -1", 4' -9'

At Eave Canopy

Projection: 6' -0"

Living Quarters

Primary and Secondary Steel Primer Color

Red

Roof Sheeting

Type: CFR, 24 Gage, Finish: TBK

Roof Panel Clip Type: Tall Fixed

Thermal Blocks: Yes EPS Foam Spacers: No

Seaming Methods:

Roof insulation(NOT BY NBS). Thickness: 6.0

Roof Line Trim. Color: TBK

Gutters. Color: TBK

Downspouts. Color: TBK

Ceiling Liner Panel

Type: Classic Wall, 26 Gage, Finish: TBS

Building Options

No Building Options Included.

Partition

Type: Classic Wall, 26 Gage, Finish: TBK

Building Line Trim Color: TBK

Project Notes:

- 1) Collateral dead loads, unless otherwise noted, are assumed to be uniformly distributed. When suspended sprinkler systems, lighting, HVAC equipment, ceilings, etc., are suspended from roof members, consult the M.B.S. If these concentrated loads exceed 500 pounds (using the web mount detail) or 200 lbs (using the flange mount detail), or if individual members are loaded significantly more than others.
- 2) The design of structural members supporting gravity loads is controlled by the more critical effect of roof live load or roof snow load, as determined by the applicable code.

Design Code:	CBC 2013
Building End Use:	4E - Community Government Admin. and Services
MBMA Occupancy Class:	IV - Essential Facilities

Roof Live Load:	20	Name	
REDUCIBLE PER CODE		Roof Dead (PSF)	
		Primary Collateral (PSF)	
		Secondary Collateral (PSF)	
Ground Snow Load:	0.00	Snow Ct	
Snow Exposure Factor, Ce:	1.00	Snow Cs	
Snow Importance Factor, Is:	---		
Seismic Information:	Ss: 0.769, S1: 0.292	Roof Snow (PSF)	
Seismic Sds/Sd1:	0.611/0.354	Wind Enclosure	
Site Class:	D		
Seismic Imp. Factor Ie:	1.50	GCpi	
Seismic Design Category:	D	Seismic R	
Analysis Procedure:	Equivalent Lateral Force Procedure	Seismic Cs	
Basic SFRS:	Ordinary Steel Moment Frames & Ordinary Steel Concentrically - Braced Frames	Base Shear (KIPS)	

Wind:	115
Wind Importance Factor, Iw:	---
Exposure:	C
UL90:	No
Classic Roof-Const. No. 161	
Classic Roof w/ Translucent Panel-Const. No. 167	
CFR Roof-Const. No. 552	
CFR Roof w/ Translucent Pane-Const. No. 590	
Composite CFR Roof-Const. No. 552A	
VR16 II Roof-Const. No. 332	

Garage	Living Quarters	Reception
4.0	4.0	4.0
5.0	5.0	5.0
5.0	5.0	5.0
1.0	1.0	1.0
1.00	1.00	1.00
0.00	0.00	0.00
Enclosed	Partially	Enclosed
+/- 0.18	+/- 0.55	+/- 0.18
3.25	3.25	3.25
0.282	0.282	0.282
22.5	31.9	10.5

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CUSTOMER NAME

MPA Architects

JOB NUMBER

U15S0716A

SHEET TITLE

Building Info Coversheet

08/26/2017 07:19:20am

This seal pertains only to the design engineering services supplied by Nucor Building Systems, a division of Nucor Corporation. The drawings on these drawings is the product of Nucor Building Systems, and does not serve as or represent the project engineer or engineer in charge. It shall not be construed as such.

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PROJECT NAME

Winterhaven Public Safety Facility

CUSTOMER NAME

MPA Architects

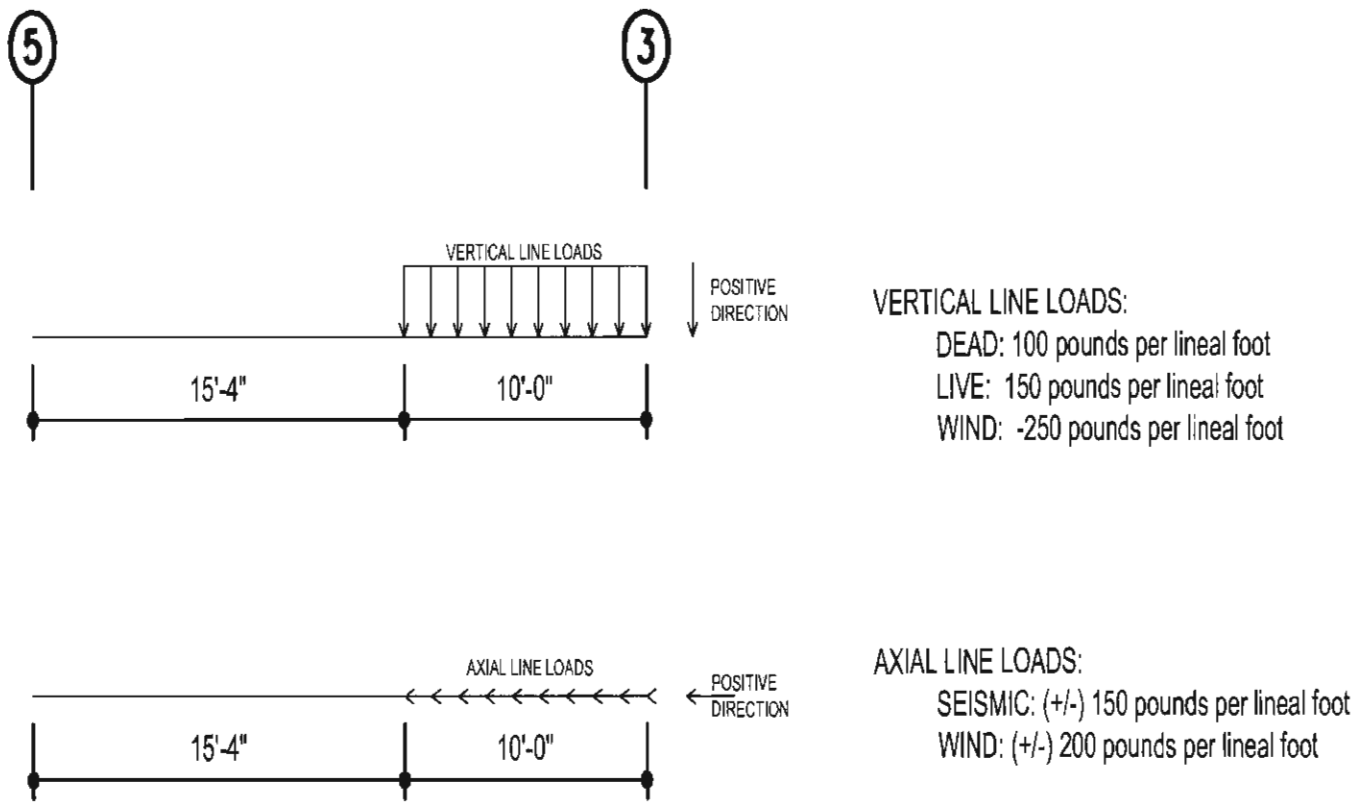
JOB NUMBER

U15S0716A

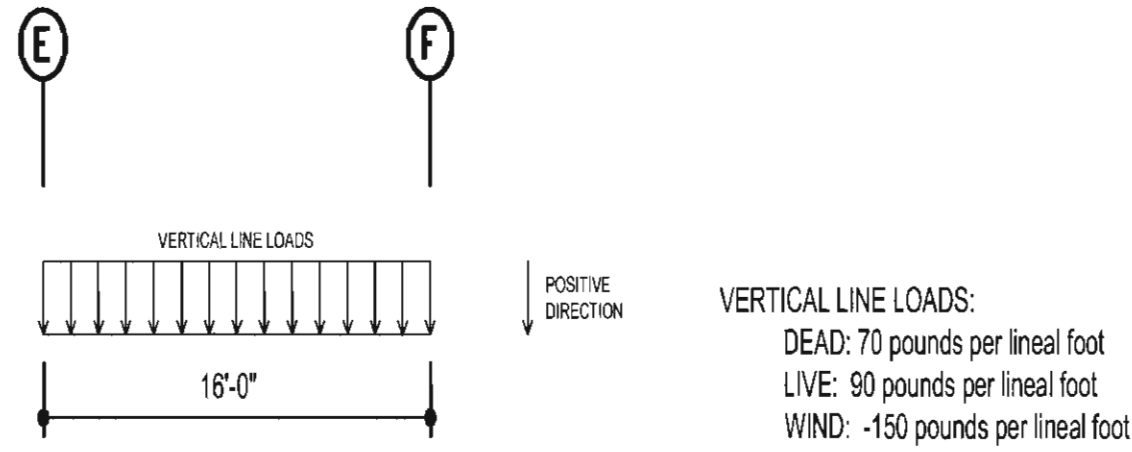
SHEET TITLE

Building

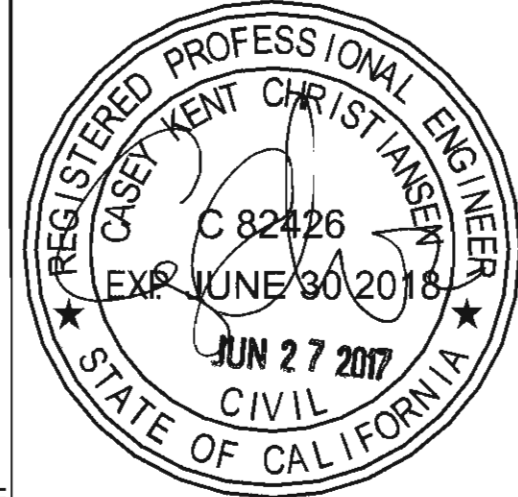
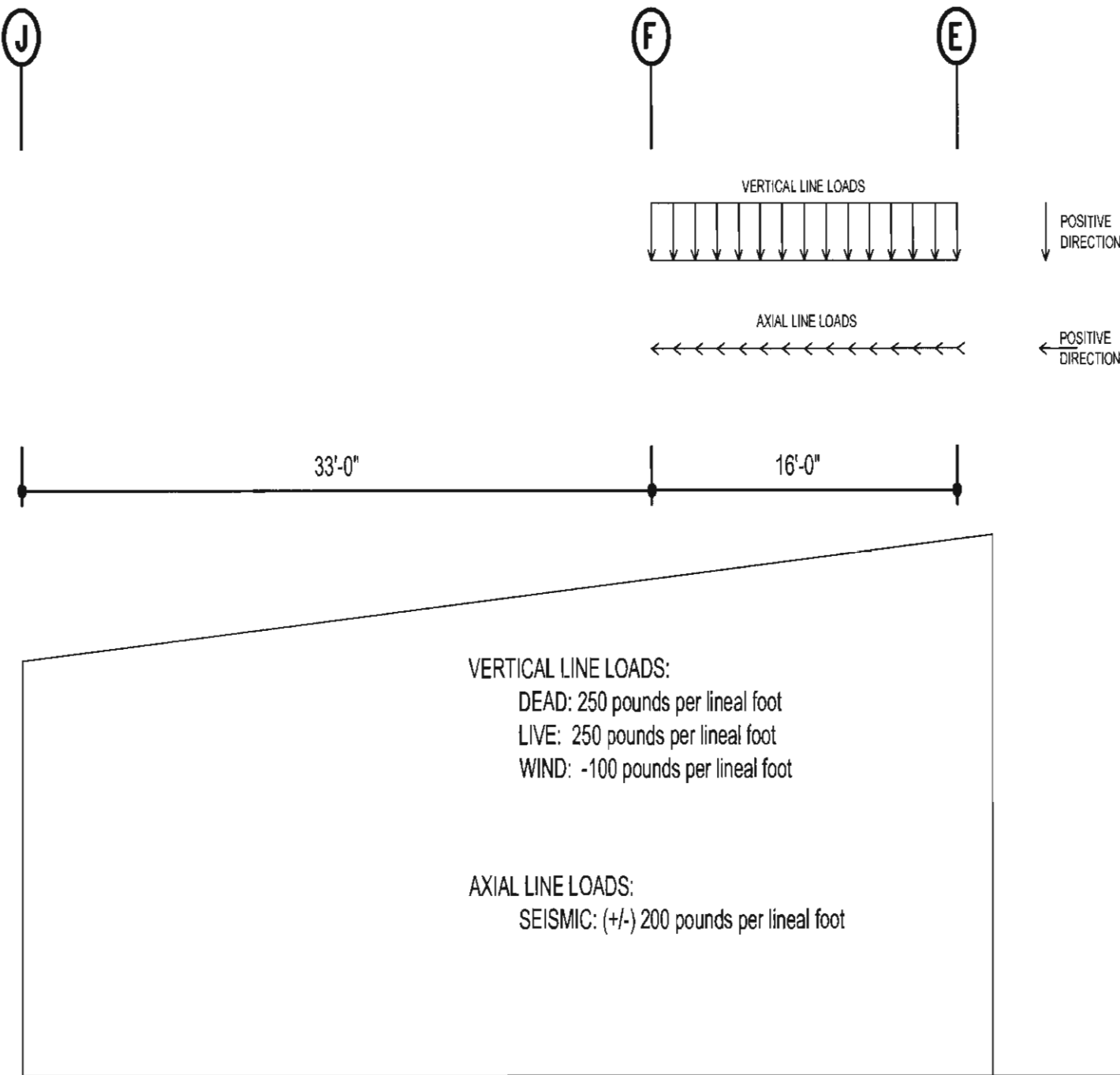
Longitudinal Roof Beams, Lines E and F
Allowable Loading by Others



Lateral Roof Beam, Spanning Between Lines E and F
Allowable Loading by Others



Rigid Frame at Line 3
Allowable Loading by Others



06/26/2017 07:19:26am
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C4 OF 5

PROJECT NAME
Winterhaven Public Safety Facility
Winterhaven, Imperial, CA

CUSTOMER NAME
MPA Architects
San Diego, CA

JOB NUMBER
U15S0716A

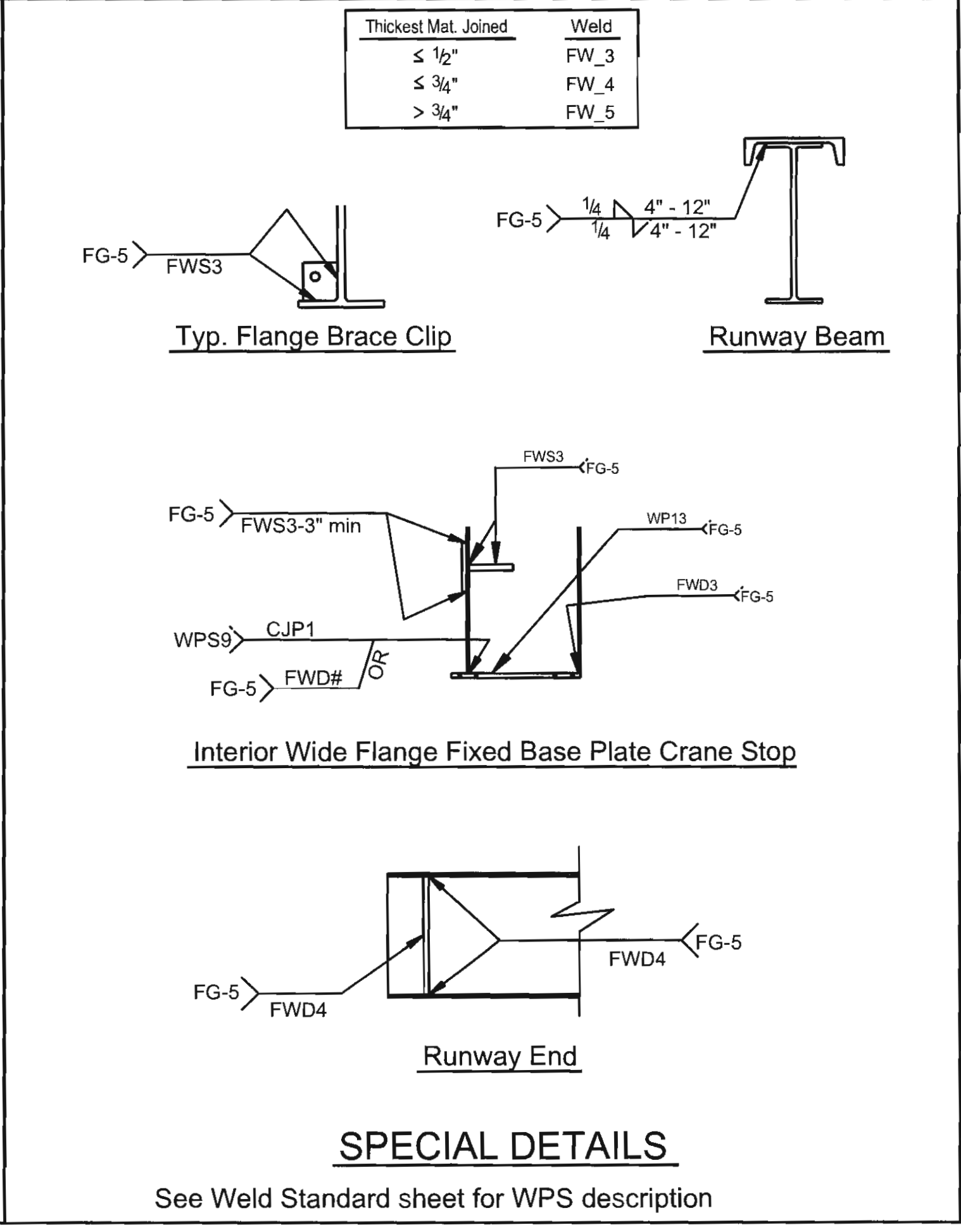
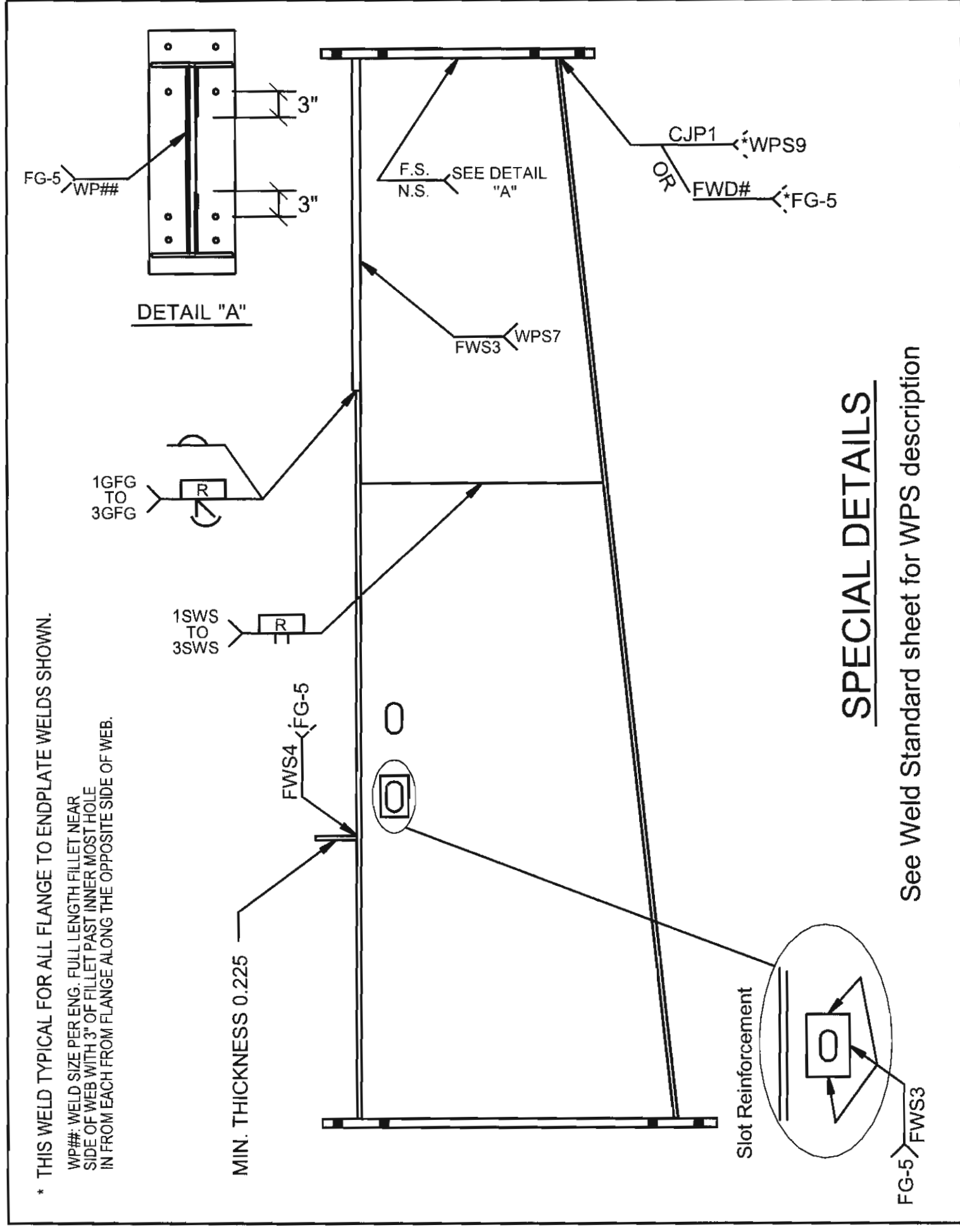
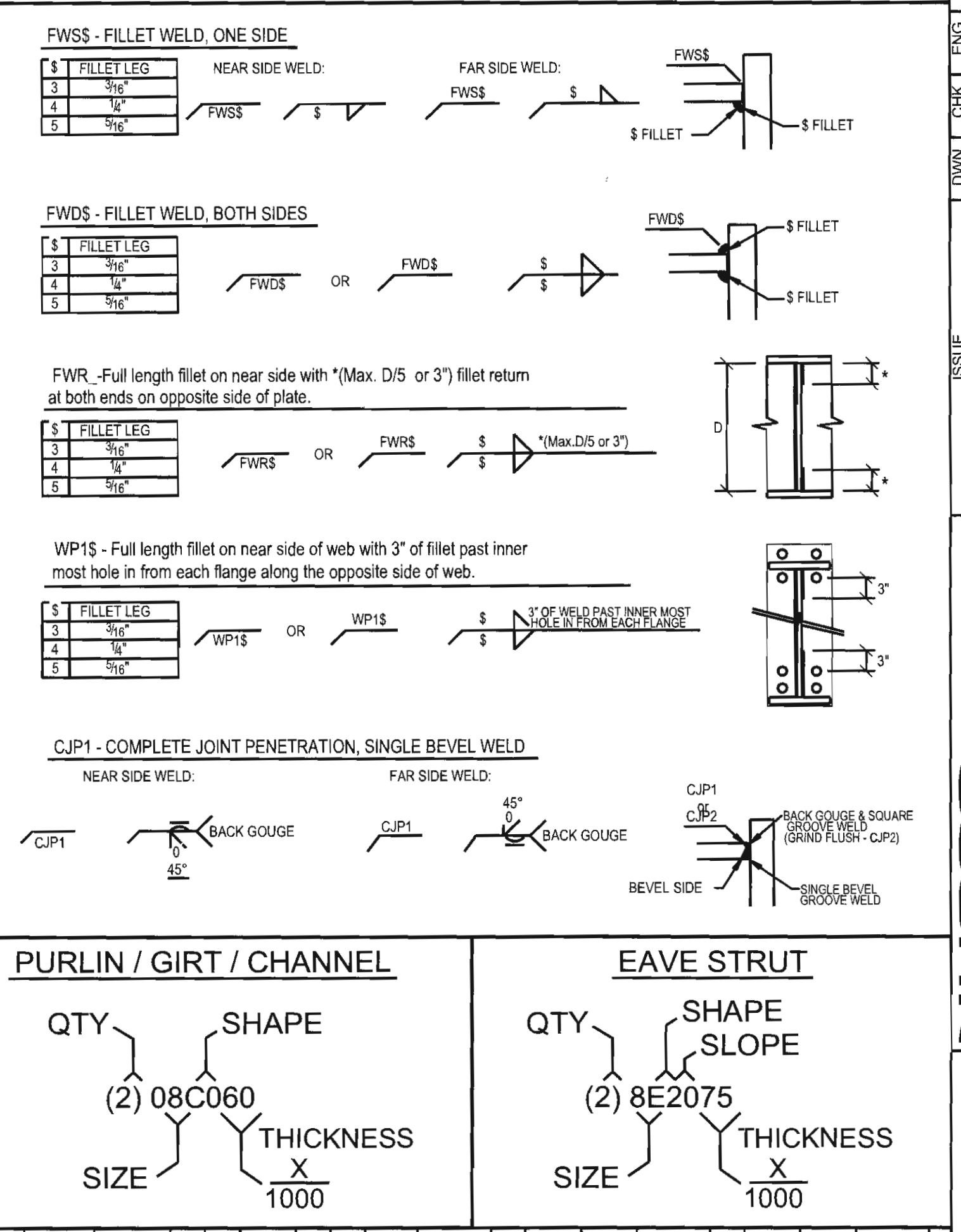
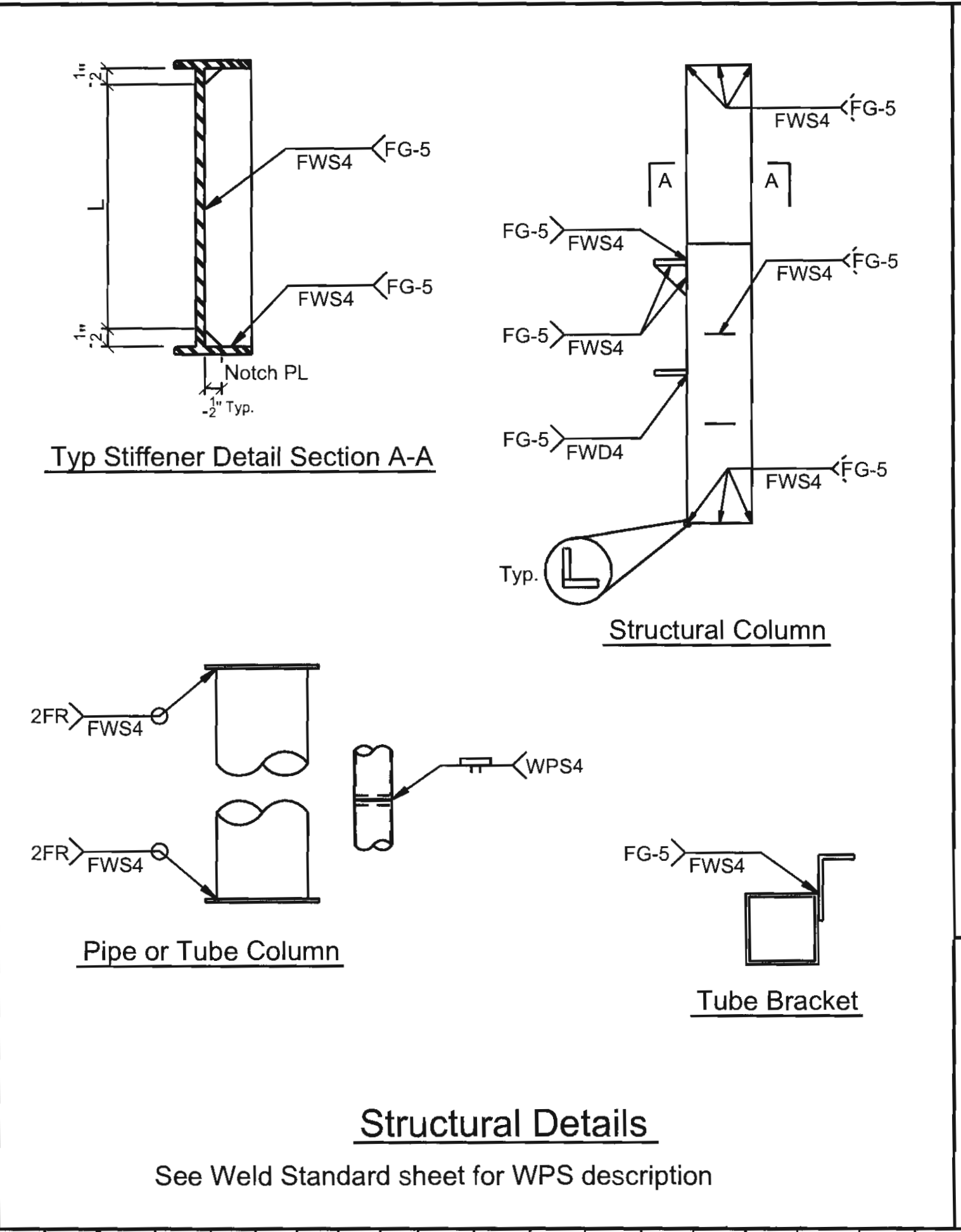
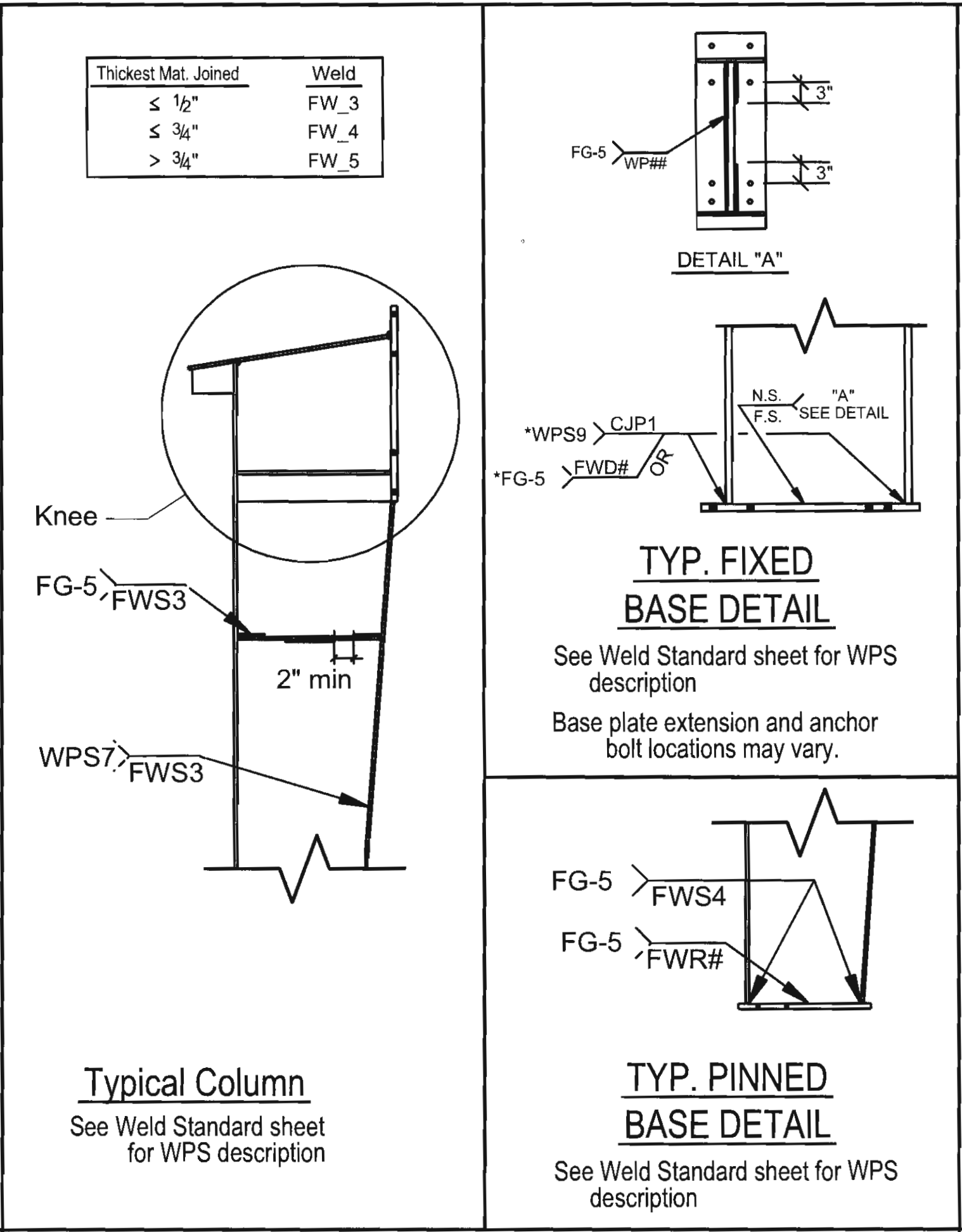
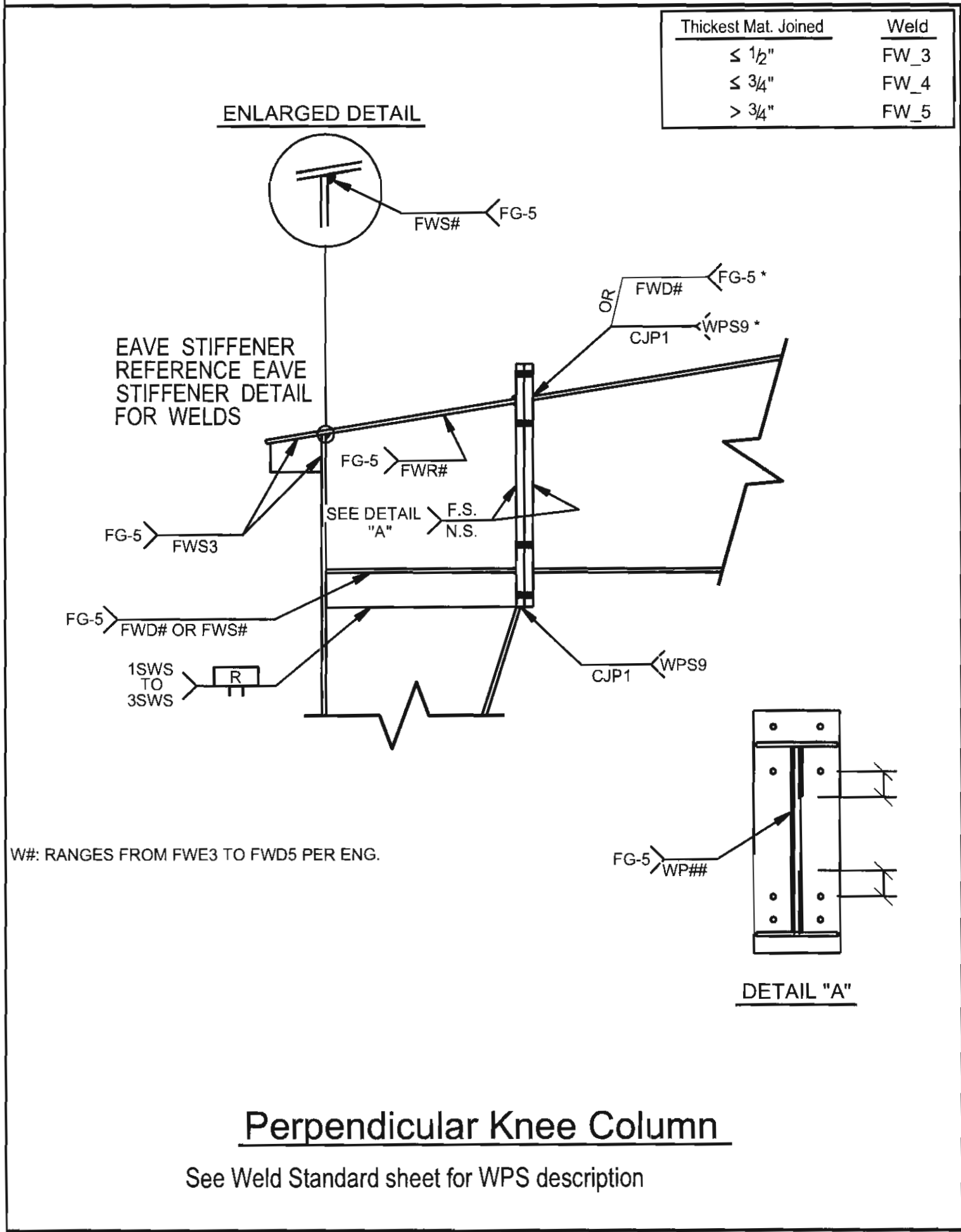
SHEET TITLE
Building Info Coversheet

NUCOR
BUILDING SYSTEMS GROUP
1050 North Watery Lane
Brigham City, UT 84302
Phone: (435) 919-3100
Fax: (435) 919-3101



ISSUE	OWN	CHK	ENG	PE	DATE
For Build Dept. Rev	SEM	NDD	KMB	TKC	7/15/2016
Rev 1 For Build Dep	TKL	SEM	KMB	RRS	11/22/2016
Rev 2 For Build Dep	CAY	NVA	KMB	CKC	6/26/2017

STANDARD WELDS AND LEGEND



WPS #	Description	Weld Code	Process	Preq	Position	Limitation	Plant Location
FG-4	3/8" x 1/2" multi-pass fillet weld	AWSD1.1-10	GMW (1/2" multi-pass fillet weld)	POR	1G	3/16" - 5/16"	UT IN SC TX
FG-5	3/16" x 5/16" single-pass fillet weld	AWSD1.1-10	GMW (3/16" x 5/16" single-pass fillet weld)	POR	2F	1/8" - 1/2"	
1GFG	3/8" through 1" flange splice	AWSD1.1-10	GMW (3/8" through 1" flange splice)	POR	1G	3/8" - 1"	
2GFG	5/16" through 1" flange splice	AWSD1.1-10	GMW (5/16" through 1" flange splice)	POR	1G	5/16" - 1"	
3GFG	1/2" to 1 1/4" flange splice	AWSD1.1-10	GMW (1/2" to 1 1/4" flange splice)	POR	1G-2F	Groove 1/2" to 1 1/4" Flange 3/8" to 1 1/4"	
2036	3/8" to 5/16" flange splice	AWSD1.1-10	GMW (3/8" to 5/16" flange splice)	POR	1G-2F	Groove 1/2" to 1 1/4" Flange 3/8" to 1 1/4"	
5GFG	1" flange splice	AWSD1.1-10	GMW (1" flange splice)	POR	1G-2F	Groove 1"	
1SWS	web splice for 0.275" through 0.313" thick	AWSD1.1-10	SAW (0.275-0.313" Web splice)	POR	1G	0.275 - 0.313	
2SWS	web splice for 0.313" through 0.375" thick	AWSD1.1-10	SAW (0.313-0.375" Web splice)	POR	1G	0.313 - 0.375	
3SWS	web splice for 0.375" through 0.500" thick	AWSD1.1-10	SAW (0.375-0.500" Web splice)	POR	1G	0.375 - 0.500	
2038	web splice for 0.500" through 0.562" thick	AWSD1.1-10	SAW (0.500-0.562" Web splice)	POR	2F	0.500 - 0.562	
2FR	pipe to endplate weld	AWSD1.1-10	GMW (Pipe to Endplate Weld)	POR	2F	6" Dia 10"	
FBG-1	Rod to plate flange weld	AWSD1.1-10	GMW (Rod to Plate Flange Weld)	POR	1G	Diameter 1/2" to 1 1/4"	
WPS4	pipe splice for 0.134" through 0.375" thick	AWSD1.1-10	GMW (Pipe Splice, 0.134" - 0.375")	YES	1G	Diameter 6-10"	
WPS5	pipe splice for 0.375" through 0.500" thick	AWSD1.1-10	GMW (Pipe Splice, 0.375" - 0.500")	YES	1G	0.375 - 0.500	
WPS6	wide-flange beam splice, all sizes	AWSD1.1-10	GMW (Wide-Flange Beam Splice)	YES	1G	0.313 - 1.50	
WPS7	flange to web weld made by autowelder using 0.062" electrode	AWSD1.1-10	SAW (Autowelder Weld)	YES	2F	0.125 - 1.00	
WPS8	flange to web weld made by autowelder using 0.052" electrode	AWSD1.1-10	SAW (Autowelder Weld)	YES	2F	0.125 - 1.00	
WPS9	complete penetration groove weld for tee connection	AWSD1.1-10	GMW (Flange to endplate weld)	YES	1G	0.375 - 1.00	
WPS11	vertical tack fillets	AWSD1.1-10	GMW (Vertical Tack Fillets)	YES	3F	0.125 - Unlimited	
WPS-1	Cold-Form seam stitch weld	AWSD1.3-08	GMW (CF seam stitch weld)	POR	FLAT	0.0625" - 0.210"	
WPS-1a	Cold-Form seam stitch weld (galvanized)	AWSD1.3-08	GMW (CF seam stitch weld (galvanized))	POR	FLAT	0.0625" - 0.210"	
WPS-2	Cold-Form seam weld	AWSD1.3-08	GMW (CF seam weld)	POR	HORIZ.	11-0.0625" - 0.215"	
WPS-2a	Cold-Form seam weld (galvanized)	AWSD1.3-08	GMW (CF seam weld (galvanized))	POR	HORIZ.	11-0.0625" - 0.215"	
WPS-3	cold-form seam weld to support steel ≥ 0.3125" thick	AWSD1.3-08	GMW (CF seam weld to support steel)	POR	HORIZ.	11-0.0625" - 0.215", 12 0.3125"	
WPS-3a	cold-form seam weld to support steel ≥ 0.3125" thick (galvanized)	AWSD1.3-08	GMW (CF seam weld to support steel (galvanized))	POR	HORIZ.	11-0.0625" - 0.215", 12 0.3125"	
WPS-4	cold-form tee connection fillet weld	AWSD1.3-08	GMW (CF tee connection fillet weld)	POR	HORIZ.	11-0.0625" - 0.215"	
WPS-4a	cold-form tee connection fillet weld (galvanized)	AWSD1.3-08	GMW (CF tee connection fillet weld (galvanized))	POR	HORIZ.	11-0.0625" - 0.215"	
WPS-5	cold-form tee connection fillet weld to support steel ≥ 0.3125" thick	AWSD1.3-08	GMW (CF tee connection fillet weld to support steel)	POR	HORIZ.	11-0.0625" - 0.215", 12 0.3125"	
WPS-5a	cold-form tee connection fillet weld to support steel ≥ 0.3125" thick (galvanized)	AWSD1.3-08	GMW (CF tee connection fillet weld to support steel (galvanized))	POR	HORIZ.	11-0.0625" - 0.215", 12 0.3125"	
WPS-6	cold-form lap fillet weld	AWSD1.3-08	GMW (CF lap fillet weld)	POR	HORIZ.	11-0.0625" - 0.215"	
WPS-6a	cold-form lap fillet weld (galvanized)	AWSD1.3-08	GMW (CF lap fillet weld (galvanized))	POR	HORIZ.	11-0.0625" - 0.215"	
WPS-7	cold-form lap fillet weld to support steel ≥ 0.3125" thick	AWSD1.3-08	GMW (CF lap fillet weld to support steel)	POR	HORIZ.	11-0.0625" - 0.215", 12 0.3125"	
WPS-7a	cold-form lap fillet weld to support steel ≥ 0.3125" thick (galvanized)	AWSD1.3-08	GMW (CF lap fillet weld to support steel (galvanized))	POR	HORIZ.	11-0.0625" - 0.215", 12 0.3125"	

PROJECT NAME
Winterhaven Public Safety Facility
Winterhaven, Imperial, CA

CUSTOMER NAME
MPA Architects
San Diego, CA

JOB NUMBER
U15S0716A

SHEET TITLE
Standard Welds and Legend

DATE
07/19/24am

REGISTERED PROFESSIONAL ENGINEER
CASEY KENT CHRISTENSEN
EXPIRATION DATE: JUNE 30, 2018
JUN 27 2017
CIVIL
STATE OF CALIFORNIA

06/26/2017

C5 OF 5

FOR BUILD DEPT. REV
Rev 1 For Build Dep
Rev 2 For Build Dep

ISSUE
SEM NDD KMB TKC
TKL SEM KMB RRS
CAY NVA KMB OKC

DATE
7/15/2016
11/22/2016
6/26/2017

PE
TKC
RRS
OKC

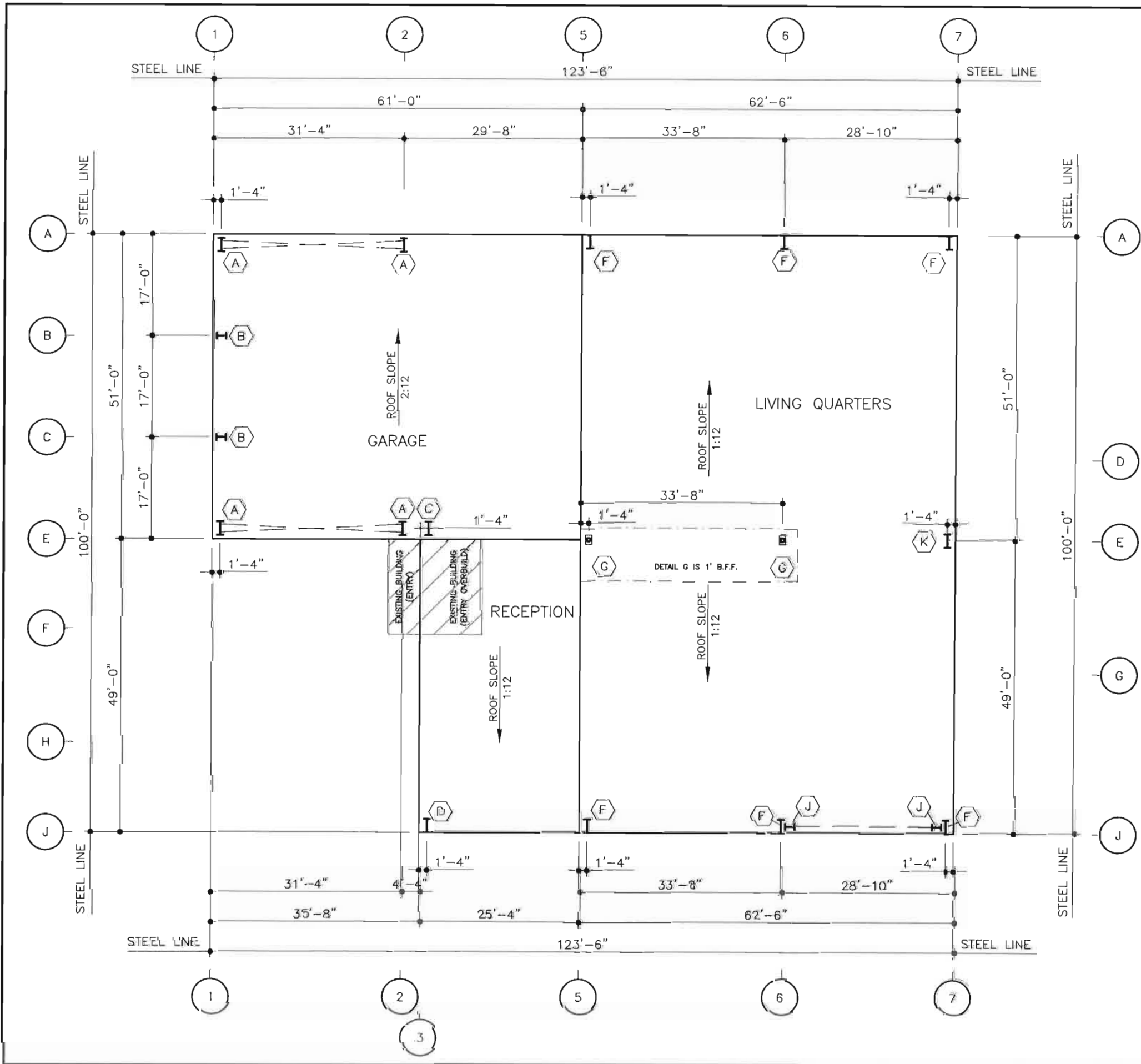
ENG
TKC
RRS
OKC

CHK
TKC
RRS
OKC

OWN
TKC
RRS
OKC

GROUP
BUILDING SYSTEMS GROUP
1050 North Watery Lane
Brigham City, UT 84302
Phone: (435) 919-3100
Fax: (435) 919-3101

AC472



ANCHOR BOLT SCHEDULE			
QUANTITY	SIZE	MAT'L	PROJECTION
60	3/4"	Q 55	3" FROM BOTTOM OF BPL
16	1-1/4"	Q 55	3" FROM BOTTOM OF BPL
			3" FROM BOT. OF BPL
			3" FROM BOT. OF BPL

FINISH FLOOR = 100'-0"
BOTTOM OF BASE PLATE (TYPICAL) = 100'-0"
BOTTOM OF BASE PLATE (DETAIL G) = 99'-0"

PROJECT NAME
Winterhaven Public Safety Facility
Winterhaven, CA
1050 North Valley Lane
Binghamton, NY 13902
Tel: (607) 735-1100
Fax: (607) 735-1101

CLIENT
Winterhaven Public Safety Facility
Winterhaven, CA
1050 North Valley Lane
Binghamton, NY 13902
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ARCHITECT
MFA Architects
San Diego, CA
1050 North Valley Lane
Binghamton, NY 13902
Tel: (607) 735-1100
Fax: (607) 735-1101

DATE
NOV 2 2014

PROJECT NO.
U15507-16A

ANCHOR BOLT PLAN

F1 of 2

ANCHOR BOLT PLAN

GENERAL NOTES

1. THE SPECIFIED ANCHOR BOLT DIAMETER ASSUMES F1554 GRADE 55 UNLESS NOTED OTHERWISE. ANCHOR BOLT MATERIAL SHALL BE SUPPLIED BY THE ANCHOR BOLT MANUFACTURER. THE ANCHOR BOLT MANUFACTURER SHALL BE RESPONSIBLE FOR THE ANCHOR BOLT DESIGN AND THE ANCHOR BOLT INSTALLATION. THE ANCHOR BOLT MANUFACTURER SHALL BE RESPONSIBLE FOR THE ANCHOR BOLT DESIGN AND THE ANCHOR BOLT INSTALLATION. THE ANCHOR BOLT MANUFACTURER SHALL BE RESPONSIBLE FOR THE ANCHOR BOLT DESIGN AND THE ANCHOR BOLT INSTALLATION.

2. THE ANCHOR BOLT LOCATIONS PROVIDED BY THE METAL BUILDING MANUFACTURER SATISFY ANY PRESENT REQUIREMENTS FOR THE DESIGN OF THE MATERIALS SUPPLIED BY THE METAL BUILDING MANUFACTURER. PLEASE NOTE THAT THESE REQUIREMENTS MAY NOT SATISFY ALL ANCHOR BOLT CONCRETE EDOE DISTANCE REQUIREMENTS DEPENDING ON THE DETAILS OF THE FOUNDATION DESIGN. BECAUSE FOUNDATION DESIGN IS NOT WITHIN THE SCOPE OF WORK OF THE METAL BUILDING MANUFACTURER, IT IS THE RESPONSIBILITY OF THE QUALIFIED PROFESSIONAL DESIGNING THE FOUNDATION TO VERIFY THAT SUFFICIENT CONCRETE EDOE DISTANCE IS PROVIDED FOR THE ANCHOR BOLTS IN THE DETAILS THEREOF.

3. THE METAL BUILDING MFR. IS NOT RESPONSIBLE FOR PROJECT FOUNDATION DESIGN. THE FOUNDATION DESIGN IS THE RESPONSIBILITY OF A REGISTERED PROFESSIONAL ENGINEER, FAMILIAR WITH LOCAL SITE CONDITIONS.

4. ALL ANCHOR BOLTS, FLAT WASHERS FOR ANCHOR BOLTS, EXPANSION BOLTS, AS WELL AS ALL CONCRETE/ANCHOR BOLTS, ARE NOT BY THE METAL BUILDING MFR. EXEMPT PLATES ARE NOT BY THE METAL BUILDING MFR. THIS DRAWING IS NOT TO SCALE.

5. FINISHED FLOOR ELEVATION = 100'-0" UNLESS NOTED OTHERWISE.

6. "SINGLE" CEE COLUMNS SHALL BE ORIENTED WITH THE TIE RODS TOWARD THE LOW EAVE UNLESS NOTED OTHERWISE.

7. THE ANCHOR BOLT SETTINGS SHOWN ON THESE DRAWINGS NOT ONLY INDICATE WHERE THE ANCHOR BOLTS ARE TO BE PLACED, BUT ALSO THE FOOTPRINT OF THE METAL BUILDING. IT IS ESSENTIAL THAT THESE BOLT SETTINGS BE FOLLOWED. IN THE EVENT THAT THESE SETTINGS DIFFER FROM THE ARCHITECTURAL FOUNDATION PLANS, THE METAL BUILDING MANUFACTURER MUST BE CONTACTED IMMEDIATELY PRIOR TO CONCRETE POURING.

8. ORIENT THE "TOES" OF SINGLE-CEE COLUMNS TOWARD THE LOW EAVE.

9. BASEPLATE MAY HAVE MORE THAN (4) HOLES. ANCHOR BOLTS ARE REQUIRED ONLY AS SHOWN.

10. TYPICAL COLUMN BASE PLATE DETAIL

11. TYPICAL COLUMN BASE PLATE DETAIL

12. TYPICAL COLUMN BASE PLATE DETAIL AT SLOT-HILLSIDE WASHER LOCATION

13. TYPICAL OVERHEAD DOOR FRAMED OPENING

14. FOUNDATION DESIGN NOTE

PROJECT NAME
Winterhaven Public Safety Facility
Winterhaven, CA
1050 North Valley Lane
Binghamton, NY 13902
Tel: (607) 735-1100
Fax: (607) 735-1101

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Winterhaven Public Safety Facility
Winterhaven, CA
1050 North Valley Lane
Binghamton, NY 13902
Tel: (607) 735-1100
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ARCHITECT
MFA Architects
San Diego, CA
1050 North Valley Lane
Binghamton, NY 13902
Tel: (607) 735-1100
Fax: (607) 735-1101

DATE
NOV 2 2014

PROJECT NO.
U15507-16A

ANCHOR BOLT PLAN

F2 of 2

A PROPOSED PUBLIC SAFETY FACILITY FOR:

WINTERHAVEN
PUBLIC SAFETY FACILITY

WINTERHAVEN, CA

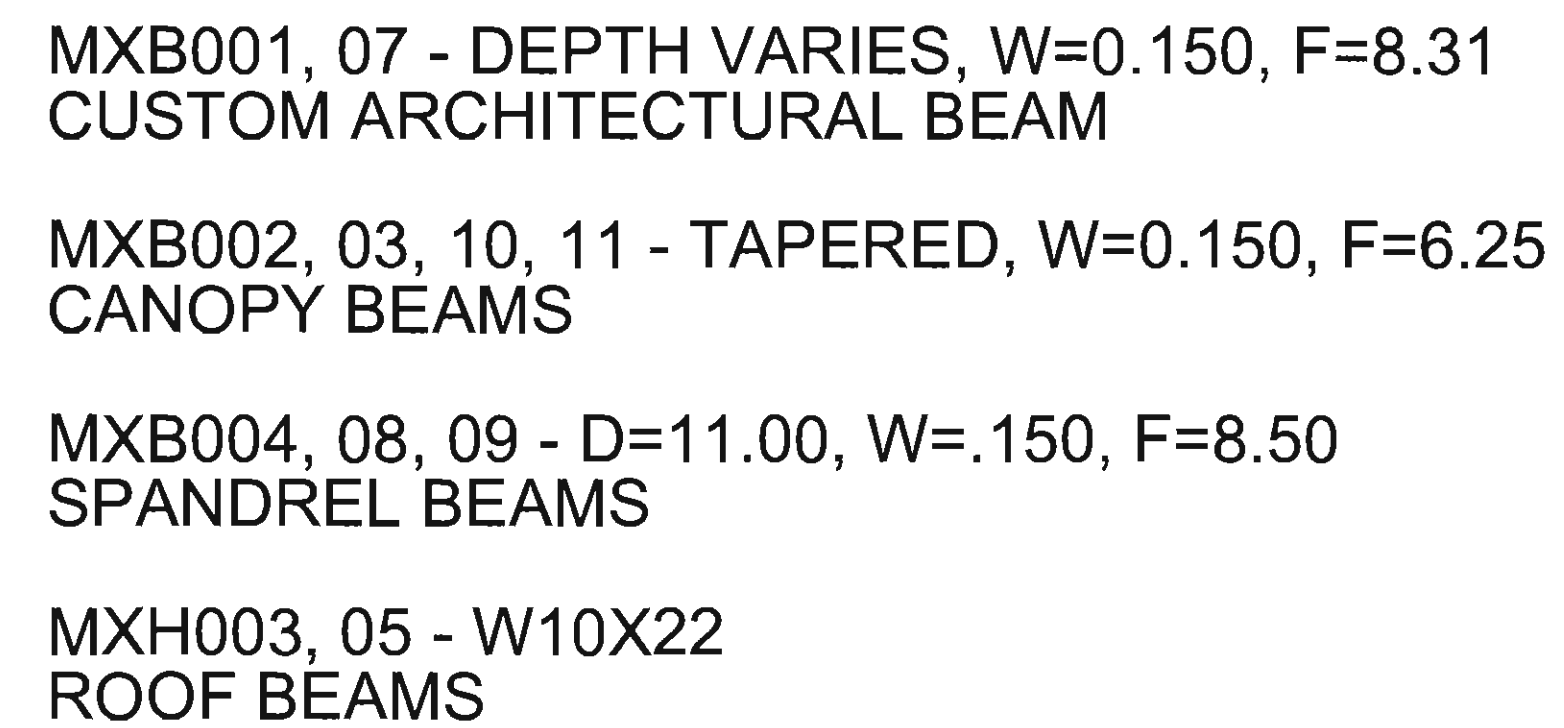
REVISIONS		
NO.	DESCRIPTION	DATE

SHEET TITLE
METAL BUILDING
DRAWINGS

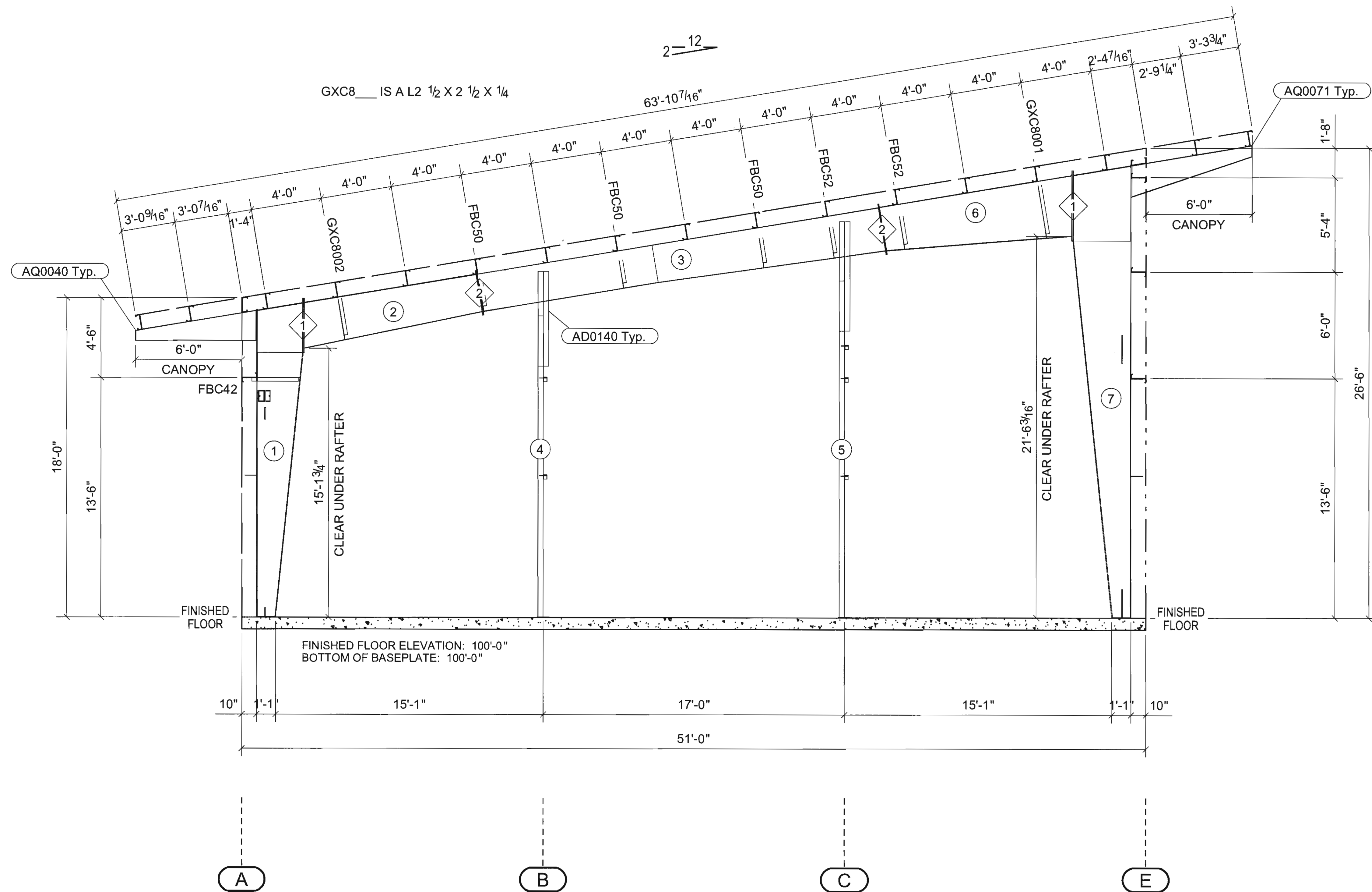
DATE	SCALE
DRAWN BY	DATABASE
CHECKED BY	SHEET NUMBER
PROJECT NO.	

3578 30th Street
San Diego, CA 92104
V. 619.236.0595
F. 619.236.0557
www.mpa-architects.com
MEMBER
AMERICAN INSTITUTE OF ARCHITECTS

COUNTY OF IMPERIAL
PLANNING & DEV.
SERVICES DEPT
801 MAIN STREET
EL CENTRO, CA 92243
(760) 482-4236



Notes: _____
Place metal tagged end of rafters toward the low eave.



Material Schedule

ID	Low Plate		High Plate		Outside Flange		Inside Flange		Web		
	Width	Thick	Width	Thick	Width	Thick	Width	Thick	Depth1	Thick	Depth2
1	10.00	0.38	10.00	0.63	10.00	0.50	10.00	0.50	12.00	0.16	30.50
	-	-	-	-					30.50	0.19	30.50
2	8.00	0.63	8.00	0.50	8.00	0.38	8.00	0.38	30.00	0.19	25.25
3	8.00	0.38	8.00	0.38	8.00	0.25	8.00	0.25	25.25	0.16	25.25
	-	-	-	-					25.25	0.16	29.25
4	8.00	0.38	-	-	-	-	-	-	12S105	-	-
5	8.00	0.38	-	-	-	-	-	-	12S105	-	-
6	8.00	0.50	8.00	0.63	8.00	0.38	8.00	0.38	29.25	0.19	40.00
7	10.00	0.38	10.00	0.63	10.00	0.50	10.00	0.50	12.00	0.19	38.50
	-	-	-	-					38.50	0.22	38.50

Notes:

For column and rafter mark numbers, see Mark Number Plan.

NS/FS indicates that flange bracing is required on both sides of the frame line.

For expandable endwall rigid frames, if flange bracing is required on both sides (NSFS) of an expandable endframe, the opposite side flange brace will have to be installed at the time of expansion. These flange braces have been provided, as required, for this future condition.

If NS/FS is NOT indicated, only one flange brace is required and can be located on either side of the frame.

"" indicates the long side of the interior columns. Columns at the ridge are typically "flat-top" columns, unless indicated by the "" symbol.

Rigid frames shall have 50% of their bolts installed and tightened on both sides of the web adjacent to each flange before the hoisting equipment is released.

Bolt Schedule

ID	Qty	Bolt Description	Bolt #	Nut #
1	8	7/8" X 3" A325	H0635	H0325
2	8	5/8" X 2 1/4" A325	H0610	H0310

06/26/2017	07:19:47am
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06/26/2017 07:19:41
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P2 OF 14

PROJECT NAME
Winterhaven Public Safety Facility
Winterhaven, Imperial, CA

CUSTOMER NAME
MPA Architects
San Diego, CA

U15S0716A	Cross S
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NUCOR
BUILDING SYSTEMS GROUP
1050 North Watery Lane
Birmingham City, UT 84302
Phone: (435) 919-3100
Fax: (435) 919-3101

ISSUE	DWN	CHK	ENG	PE	DATE
For Build Dept. Rev	SEM	NDD	KMB	TKC	7/15/2016
Rev 1 For Build Dep	TKL	SEM	KMB	RRS	11/22/2016
Rev 2 For Build Dep	CAY	NVA	KMB	CKC	6/26/2017

Material Schedule											
ID	Low Plate		High Plate		Outside Flange		Inside Flange		Web		
	Width	Thick	Width	Thick	Width	Thick	Width	Thick	Depth1	Thick	Depth2
1	10.00	0.38	10.00	0.63	10.00	0.50	10.00	0.50	12.00	0.16	30.50
	-	-	-	-					30.50	0.19	30.50
2	8.00	0.63	8.00	0.50	8.00	0.38	8.00	0.38	30.00	0.19	25.25
3	8.00	0.38	8.00	0.38	8.00	0.25	8.00	0.25	25.25	0.16	25.25
	-	-	-	-					25.25	0.16	29.25
4	8.00	0.38	-	-	-	-	-	-	12S105	-	-
5	8.00	0.38	-	-	-	-	-	-	12S105	-	-
6	8.00	0.50	8.00	0.63	8.00	0.38	8.00	0.38	29.25	0.19	40.00
7	10.00	0.38	10.00	0.63	10.00	0.50	10.00	0.50	12.00	0.19	38.50
	-	-	-	-					38.50	0.22	38.50

Notes:

For column and rafter mark numbers, see Mark Number Plan.

NS/FS indicates that flange bracing is required on both sides of the frame line.

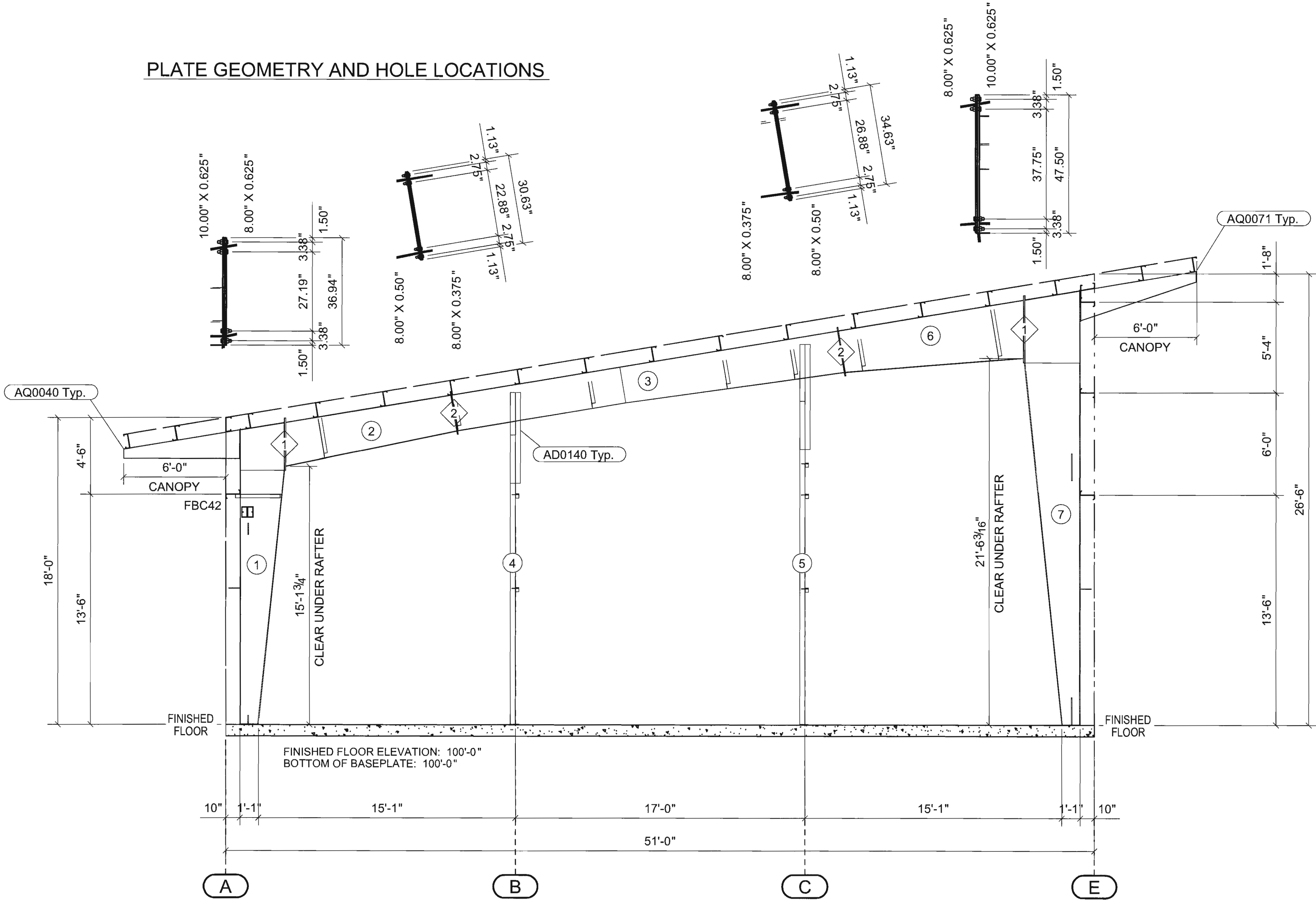
For expandable endwall rigid frames, if flange bracing is required on both sides (NSFS) of an expandable endframe, the opposite side flange brace will have to be installed at the time of expansion. These flange braces have been provided, as required, for this future condition.

If NS/FS is NOT indicated, only one flange brace is required and can be located on either side of the frame.

*** indicates the long side of the interior columns. Columns at the ridge are typically "flat-top" columns, unless indicated by the "***" symbol.

Rigid frames shall have 50% of their bolts installed and tightened on both sides of the web adjacent to each flange before the hoisting equipment is released.

Bolt Schedule				
ID	Qty	Bolt Description	Bolt #	Nut #
1	8	7/8" X 3" A325	H0635	H0325
2	8	5/8" X 2 1/4" A325	H0610	H0310



PROJECT NAME
Winterhaven Public Safety Facility
Winterhaven, Imperial, CA

CUSTOMER NAME
MPA Architects
San Diego, CA

JOB NUMBER
U15S0716A

SHEET TITLE
Plate and Bolts at line 1

NUCOR
BUILDING SYSTEMS GROUP

Phone:
Fax:

For Build Dept. Rev
Rev 1 For Build Dep
Rev 2 For Build Dep

SEM NDD KMB TKC
TKL SEM KMB RRS
CAY NVA KMB CKC

DATE
7/15/2016
11/22/2016
6/26/2017

REGISTERED PROFESSIONAL ENGINEER
CASEY KENT CHRISTENSEN
EXPIRATION DATE: JUN 30 2018
JUN 27 2017
CIVIL
STATE OF CALIFORNIA

06/26/2017 07:19:49am

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P3 OF 14

Material Schedule										
ID	Low Plate		High Plate		Outside Flange		Inside Flange		Web	
	Width	Thick	Width	Thick	Width	Thick	Width	Thick	Depth1	Depth2
1	10.00	0.38	10.00	0.63	10.00	0.50	10.00	0.50	12.00	30.50
	-	-	-	-					30.50	30.50
2	8.00	0.63	8.00	0.50	8.00	0.38	8.00	0.38	30.00	25.25
3	8.00	0.38	8.00	0.38	8.00	0.25	8.00	0.25	25.25	25.25
	-	-	-	-					25.25	29.25
4	8.00	0.50	8.00	0.63	8.00	0.38	8.00	0.38	29.25	40.00
5	10.00	0.38	10.00	0.63	10.00	0.50	10.00	0.50	12.00	38.50
	-	-	-	-					38.50	38.50

Notes: _____

For column and rafter mark numbers, see Mark Number Plan.

NS/FS indicates that flange bracing is required on both sides of the frame line.

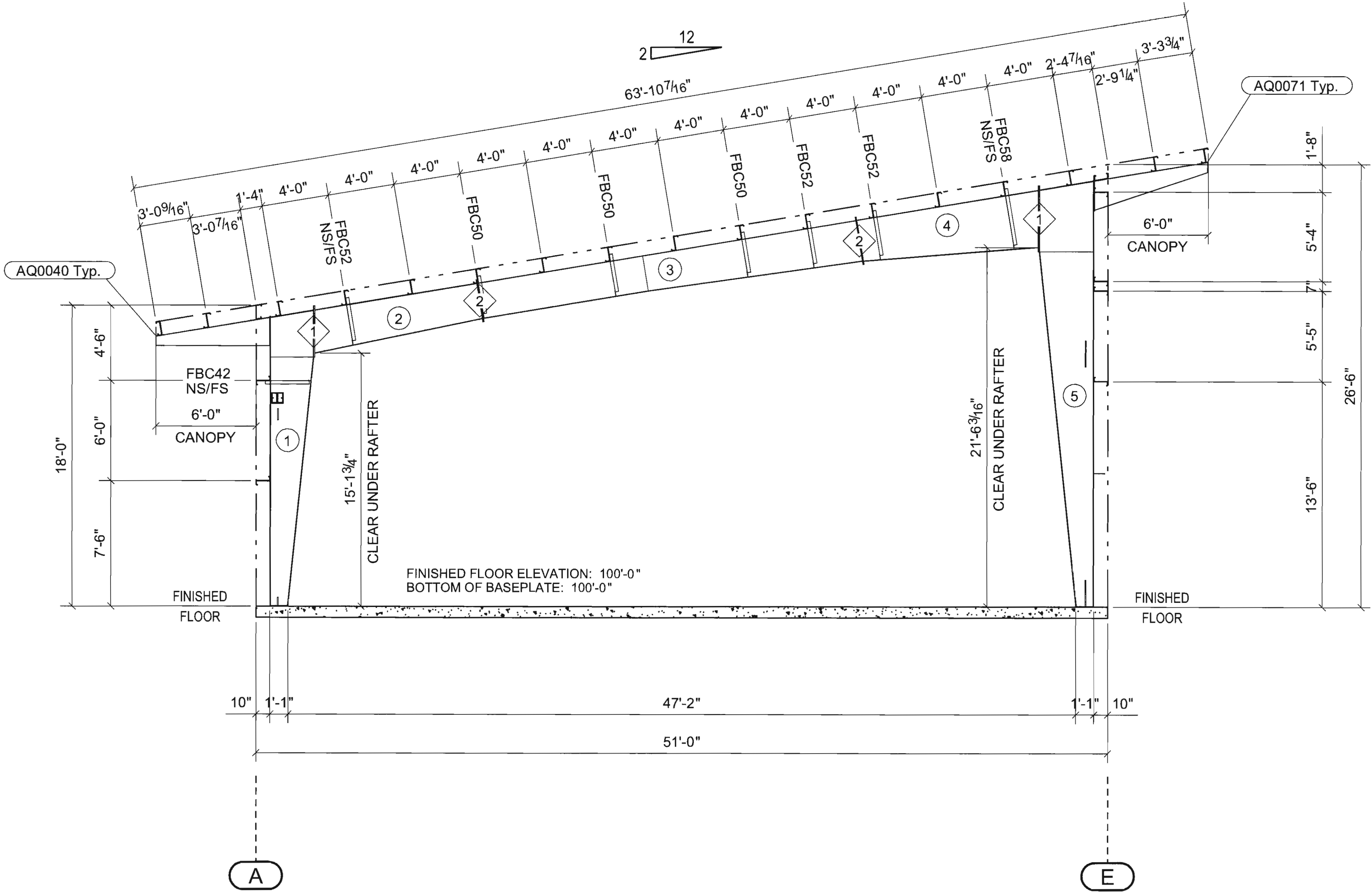
For expandable endwall rigid frames, if flange bracing is required on both sides (NS/FS) of an expandable endframe, the opposite side flange brace will have to be installed at the time of expansion. These flange braces have been provided, as required, for this future condition.

If NS/FS is NOT indicated, only one flange brace is required and can be located on either side of the frame.

*** indicates the long side of the interior columns. Columns at the ridge are typically "flat-top" columns, unless indicated by the *** symbol.

Rigid frames shall have 50% of their bolts installed and tightened on both sides of the web adjacent to each flange before the hoisting equipment is released.

Bolt Schedule				
ID	Qty	Bolt Description	Bolt #	Nut #
1	8	7/8" X 3" A325	H0635	H0325
2	8	5/8" X 2 1/4" A325	H0610	H0310



ISSUE	DATE	ENG	CHK	APP
For Build Dept. Rev	7/15/2016	TKC		
Rev 1 For Build Dep	11/22/2016	RRS		
Rev 2 For Build Dep	6/26/2017	CKC		

NUCOR
BUILDING SYSTEMS GROUP
1050 North Watery Lane
Brigham City, UT 84302
Phone: (435) 919-3100
Fax: (435) 919-3101

PROJECT NAME
Winterhaven Public Safety Facility
Winterhaven, Imperial, CA

CUSTOMER NAME
MPA Architects
San Diego, CA

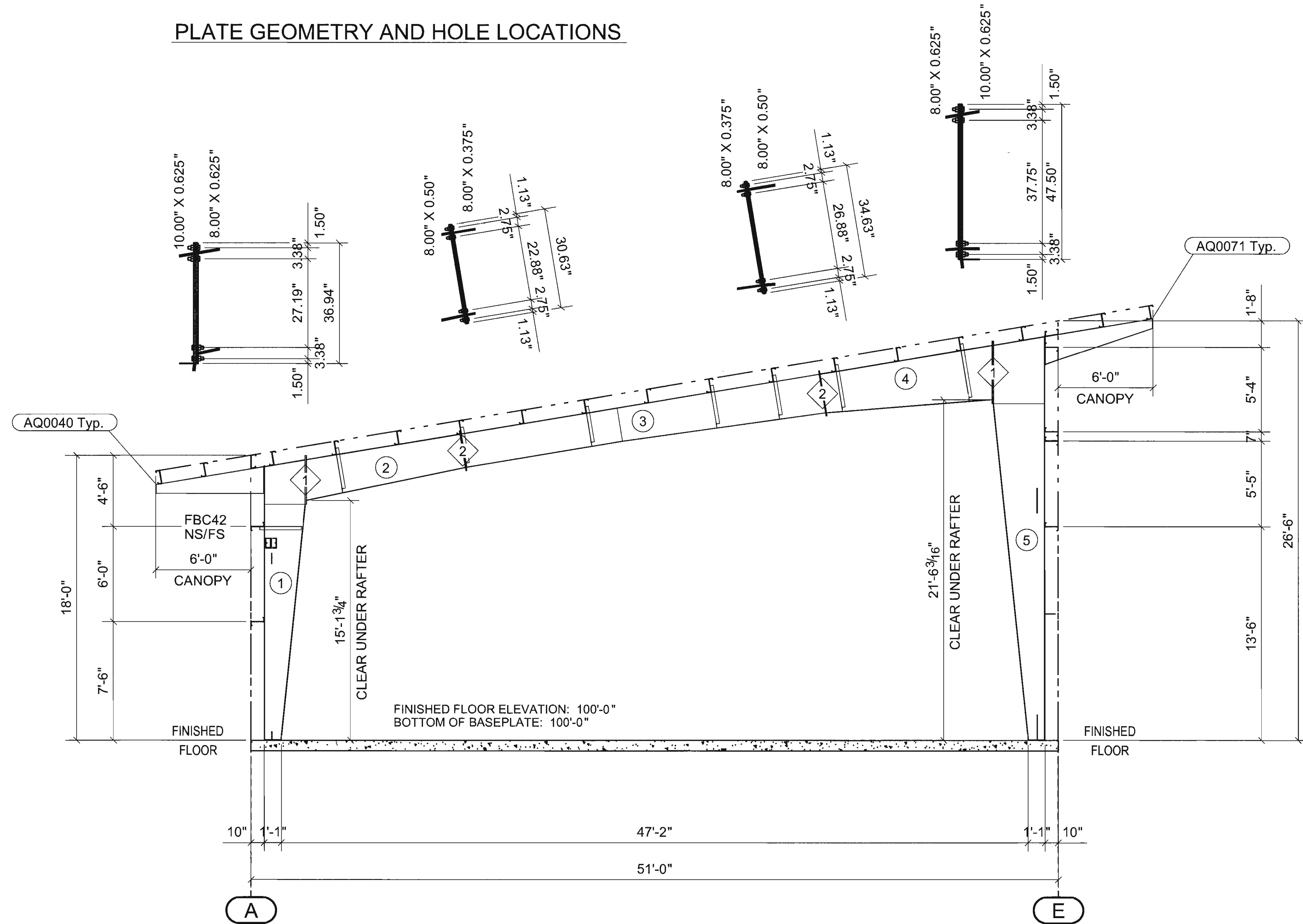
JOB NUMBER
U15S0716A

SHEET TITLE
Cross Section at line 2

This seal pertains only to the work performed by the engineer named herein and does not constitute a representation or warranty of the quality of the work performed by the engineer or the accuracy of the drawings or the design of the project. The engineer's seal appears on these drawings as a condition of the engineer's professional liability insurance policy and does not serve as a representation of the engineer's qualifications or the quality of the work performed by the engineer or the accuracy of the drawings or the design of the project.

SHEET
P4 OF 14

PLATE GEOMETRY AND HOLE LOCATIONS



Notes:

For column and rafter mark numbers, see Mark Number Plan.

NS/FS indicates that flange bracing is required on both sides of the frame line.

For expandable endwall rigid frames, if flange bracing is required on both sides (NSFS) of an expandable endframe, the opposite side flange brace will have to be installed at the time of expansion. These flange braces have been provided, as required, for this future condition.

If NS/FS is NOT indicated, only one flange brace is required and can be located on either side of the frame.

*** indicates the long side of the interior columns. Columns at the ridge are typically "flat-top" columns, unless indicated by the "***" symbol.

Rigid frames shall have 50% of their bolts installed and tightened on both sides of the web adjacent to each flange before the hoisting equipment is released.

Material Schedule

(ID)	Low Plate		High Plate		Outside Flange		Inside Flange		Web		
	Width	Thick	Width	Thick	Width	Thick	Width	Thick	Depth1	Thick	Depth2
1	10.00	0.38	10.00	0.63	10.00	0.50	10.00	0.50	12.00	0.16	30.50
	-	-	-	-					30.50	0.19	30.50
2	8.00	0.63	8.00	0.50	8.00	0.38	8.00	0.38	30.00	0.19	25.25
3	8.00	0.38	8.00	0.38	8.00	0.25	8.00	0.25	25.25	0.16	25.25
	-	-	-	-					25.25	0.16	29.25
4	8.00	0.50	8.00	0.63	8.00	0.38	8.00	0.38	29.25	0.19	40.00
5	10.00	0.38	10.00	0.63	10.00	0.50	10.00	0.50	12.00	0.19	38.50
	-	-	-	-					38.50	0.22	38.50

Bolt Schedule

ID	Qty	Bolt Description	Bolt #	Nut #
1	8	7/8" X 3" A325	H0635	H0325
2	8	5/8" X 2 1/4" A325	H0610	H0310

06/26/2017 07:19:53am
This seal contains only the materials designed and supplied by Nucor Building Systems, a division of Nucor Corporation. The drawings and the metal building which they represent are the product of Nucor Building Systems, the registered professional engineer who appears on these drawings is employed by Nucor Building Systems and does not serve as or represent the project engineer of record and shall not be construed as such.

SHEET
P5 OF 14

REGISTERED PROFESSIONAL ENGINEER
CASEY KENT CHRISTENSEN
C 82426
EXP. JUNE 30, 2018
JUN 27 2017
CIVIL
STATE OF CALIFORNIA

PROJECT NAME
Winterhaven Public Safety Facility
Winterhaven, Imperial, CA

CUSTOMER NAME
MPA Architects
San Diego, CA

JOB NUMBER	SHEET TITLE
------------	-------------

Plate and Bolts at line 2

Phone:
Fax:

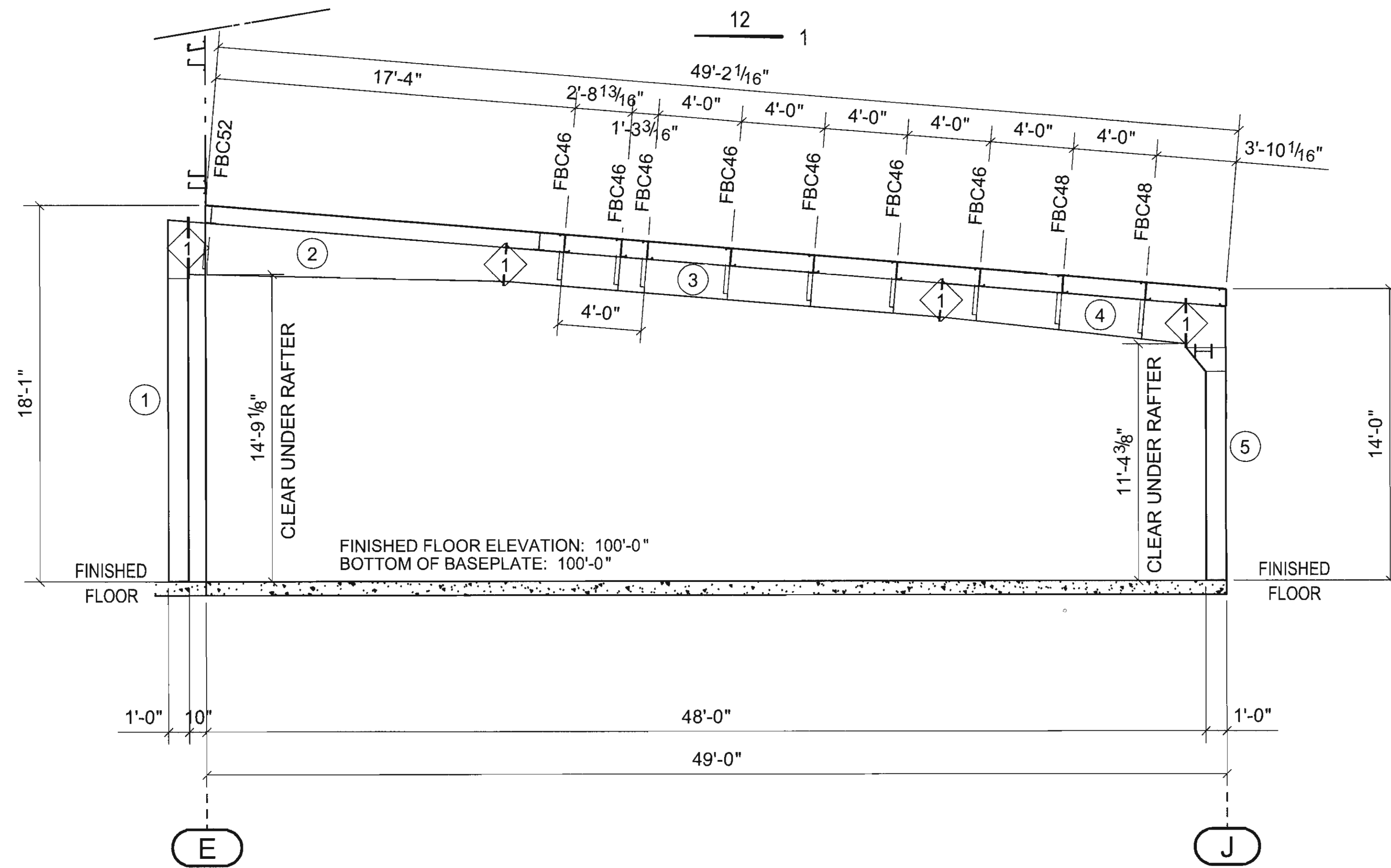
NUCOR
BUILDING SYSTEMS GROUP

Phone: 800.368.6633
Fax: 800.368.6633

NUCOR
WHEELS

NUCOR
TRUCKS
A/C472

ISSUE	OWN	CHK	ENG	DE	DATE
For Build Dept. Rev	SEM	NDD	KMB	TKC	7/15/2016
Rev 1 For Build Dep	TKL	SEM	KMB	RRS	11/22/2016
Rev 2 For Build Dep	CAY	NVA	KMB	CKC	6/26/2017



Notes: _____

For column and rafter mark numbers, see Mark Number Plan.

NS/FS indicates that flange bracing is required on both sides of the frame line.

For expandable endwall rigid frames, if flange bracing is required on both sides (NSFS) of an expandable endframe, the opposite side flange brace will have to be installed at the time of expansion. These flange braces have been provided, as required, for this future condition.

If NS/FS is NOT indicated, only one flange brace is required and can be located on either side of the frame.

*** indicates the long side of the interior columns. Columns at the ridge are typically "flat-top" columns, unless indicated by the "***" symbol.

Rigid frames shall have 50% of their bolts installed and tightened on both sides of the web adjacent to each flange before the hoisting equipment is released.

Material Schedule

Material Schedule											
ID	Low Plate		High Plate		Outside Flange		Inside Flange		Web		
	Width	Thick	Width	Thick	Width	Thick	Width	Thick	Depth1	Thick	Depth2
1	8.00	0.38	8.00	0.63	8.00	0.50	8.00	0.50	11.00	0.15	11.00
	-	-	-	-					11.00	0.22	11.00
2	6.00	0.38	6.00	0.50	6.00	0.25	6.00	0.25	19.25	0.16	30.00
3	6.00	0.38	6.00	0.38	6.00	0.25	6.00	0.19	19.25	0.12	19.25
4	6.00	0.50	6.00	0.38	6.00	0.25	6.00	0.25	23.00	0.15	19.25
5	8.00	0.38	8.00	0.63	8.00	0.50	8.00	0.50	11.00	0.15	11.00
	-	-	-	-			8.00	0.50	11.00	0.15	22.00
	-	-	-	-					22.00	0.19	22.00

Bolt Schedule

Bolt Schedule				
ID	Qty	Bolt Description	Bolt #	Nut #
1	8	5/8" X 2 1/4" A325	H0610	H0310

On 06/26/2017 07:19:54 AM
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P6 OF 14
SHEET

PROJECT NAME
Winterhaven Public Safety Facility
Winterhaven, Imperial, CA

CUSTOMER NAME
MPA Architects
San Diego, CA

JOB NUMBER	SHEET TITLE
U15S0716A	Cross S

SHEET TITLE

Cross Section at line 3

YOU

BUILDING SYSTEMS GROUP

1050 North Watery Lane

Brigham City, UT 84302

Phone: (435) 919-3100

Fax: (435) 919-3101

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176	177	178	179	180	181	182	183	184	185	186	187	188	189	190	191	192	193	194	195	196	197	198	199	200	201	202	203	204	205	206	207	208	209	210	211	212	213	214	215	216	217	218	219	220	221	222	223	224	225	226	227	228	229	230	231	232	233	234	235	236	237	238	239	240	241	242	243	244	245	246	247	248	249	250	251	252	253	254	255	256	257	258	259	260	261	262	263	264	265	266	267	268	269	270	271	272	273	274	275	276	277	278	279	280	281	282	283	284	285	286	287	288	289	290	291	292	293	294	295	296	297	298	299	300	301	302	303	304	305	306	307	308	309	310	311	312	313	314	315	316	317	318	319	320	321	322	323	324	325	326	327	328	329	330	331	332	333	334	335	336	337	338	339	340	341	342	343	344	345	346	347	348	349	350	351	352	353	354	355	356	357	358	359	360	361	362	363	364	365	366	367	368	369	370	371	372	373	374	375	376	377	378	379	380	381	382	383	384	385	386	387	388	389	390	391	392	393	394	395	396	397	398	399	400	401	402	403	404	405	406	407	408	409	410	411	412	413	414	415	416	417	418	419	420	421	422	423	424	425	426	427	428	429	430	431	432	433	434	435	436	437	438	439	440	441	442	443	444	445	446	447	448	449	450	451	452	453	454	455	456	457	458	459	460	461	462	463	464	465	466
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ISSUE

For Build Dept. Rev

Rev 1 For Build Dep
Rev 2 For Build Dep

[illegible]

DWN	CHK	ENG	PE	DATE
SEM	NDD	KMB	TKC	7/15/2016

TKL	SEM	KMB	RRS	11/22/2016
CAY	NVA	KMB	CKC	6/26/2017



Material Schedule											
ID	Low Plate		High Plate		Outside Flange		Inside Flange		Web		
	Width	Thick	Width	Thick	Width	Thick	Width	Thick	Depth1	Thick	Depth2
1	8.00	0.38	8.00	0.63	8.00	0.50	8.00	0.50	11.00	0.15	11.00
	-	-	-	-					11.00	0.22	11.00
2	6.00	0.38	6.00	0.50	6.00	0.25	6.00	0.25	19.25	0.16	30.00
3	6.00	0.38	6.00	0.38	6.00	0.25	6.00	0.19	19.25	0.12	19.25
4	6.00	0.50	6.00	0.38	6.00	0.25	6.00	0.25	23.00	0.15	19.25
5	8.00	0.38	8.00	0.63	8.00	0.50	8.00	0.50	11.00	0.15	11.00
	-	-	-	-			8.00	0.50	11.00	0.15	22.00
	-	-	-	-					22.00	0.19	22.00

Notes:

For column and rafter mark numbers, see Mark Number Plan.

NS/FS indicates that flange bracing is required on both sides of the frame line.





For expandable endwall rigid frames, if flange bracing is required on both sides (NSFS) of an expandable endframe, the opposite side flange brace will have to be installed at the time of expansion. These flange braces have been provided, as required, for this future condition.

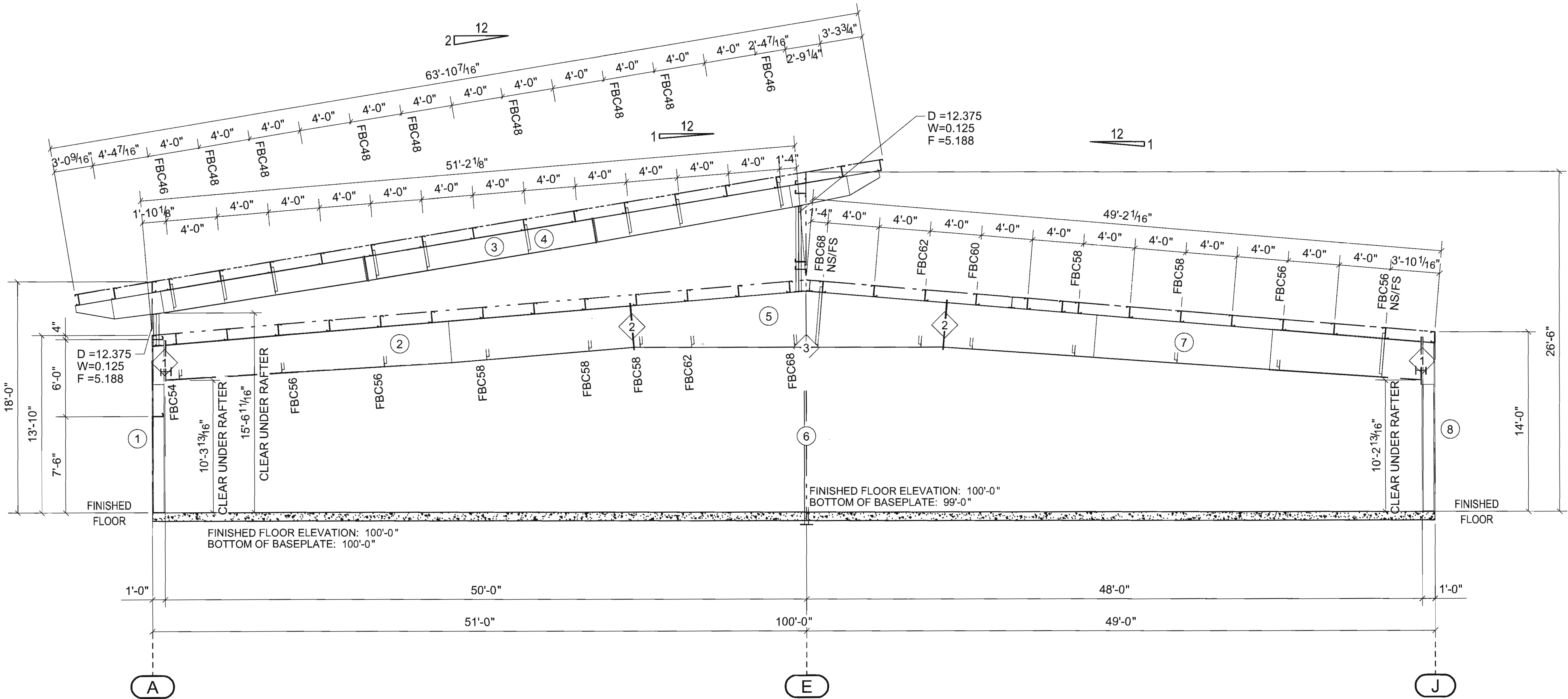
If NS/FS is NOT indicated, only one flange brace is required and can be located on either side of the frame.

*** indicates the long side of the interior columns. Columns at the ridge are typically "flat-top" columns, unless indicated by the *** symbol.

Rigid frames shall have 50% of their bolts installed and tightened on both sides of the web adjacent to each flange before the hoisting equipment is released.

Bolt Schedule				
ID	Qty	Bolt Description	Bolt #	Nut #
1	8	5/8" X 2 1/4" A325	H0610	H0310

PROJECT NAME Winterhaven Public Safety Facility Winterhaven, Imperial, CA		 NUCOR BUILDING SYSTEMS GROUP   		ISSUE	OWN	CHK	ENG	PE	DATE
CUSTOMER NAME MPA Architects San Diego, CA				For Build Dept.	Rev	SEM NDD	KMB TKC	7/15/2016	
JOB NUMBER U15S0716A		SHEET TITLE Plate and Bolts at line 3		Rev 1 For Build Dept	TKL SEM	KMB RRS	11/22/2016		
		Rev 2 For Build Dept	CAY	NVA	KMB CKC	6/26/2017			
Phone: Fax:									



Material Schedule

ID	Low Plate		High Plate		Outside Flange		Inside Flange		Web		
	Width	Thick	Width	Thick	Width	Thick	Width	Thick	Depth1	Thick	Depth2
1	12.00	0.38	12.00	1.25	12.00	1.00	12.00	1.00	10.00	0.28	10.00
	-	-	-	-	-	-	-	-	10.00	0.31	10.00
2	10.00	0.75	8.00	0.50	8.00	0.63	8.00	0.63	32.00	0.19	38.50
	-	-	-	-	8.00	0.38	8.00	0.38	38.50	0.19	38.50
3	8.00	0.75	8.00	0.75	8.00	0.38	8.00	0.31	22.00	0.12	22.00
4	8.00	0.75	8.00	0.75	8.00	0.38	8.00	0.31	22.00	0.12	22.00
5	8.00	0.50	8.00	0.50	8.00	0.37	8.00	0.38	38.37	0.25	52.03
	-	-	-	-	-	-	-	-	52.03	0.25	41.11
6	10.00	0.50	10.00	0.50	-	-	-	-	3.63	4.00	4.00
7	10.00	0.75	8.00	0.50	8.00	0.63	8.00	0.63	35.00	0.19	36.98
	-	-	-	-	8.00	0.38	8.00	0.38	36.98	0.16	39.29
	-	-	-	-	-	-	-	-	39.29	0.19	41.25
8	12.00	0.38	12.00	1.25	12.00	1.00	12.00	1.00	10.00	0.28	10.00
	-	-	-	-	-	-	-	-	10.00	0.28	10.00

Notes:

For column and rafter mark numbers, see Mark Number Plan.

NS/FS indicates that flange bracing is required on both sides of the frame line.

For expandable endwall rigid frames, if flange bracing is required on both sides (NS/FS) of an expandable endframe, the opposite side flange brace will have to be installed at the time of expansion. These flange braces have been provided, as required, for this future condition.

If NS/FS is NOT indicated, only one flange brace is required and can be located on either side of the frame.

*** indicates the long side of the interior columns. Columns at the ridge are typically "flat-top" columns, unless indicated by the "***" symbol.

Rigid frames shall have 50% of their bolts installed and tightened on both sides of the web adjacent to each flange before the hoisting equipment is released.

Bolt Schedule

ID	Qty	Bolt Description	Bolt #	Nut #
1	8	1 1/4" X 3 1/2" A325	H0660	H0340
2	8	5/8" X 2 1/4" A325	H0610	H0310
3	4	5/8" X 2 1/4" A325	H0610	H0310

PROJECT NAME
Winterhaven Public Safety Facility
Winterhaven, Imperial, CA

CUSTOMER NAME
MPA Architects
San Diego, CA

JOB NUMBER
U15S0716A

SHEET TITLE
Cross Section at line 5

NUCOR
BUILDING SYSTEMS GROUP

1050 North Watery Lane
Brigham City, UT 84302
Phone: (435) 919-3100
Fax: (435) 919-3101

For Build Dept. Rev
Rev 1 For Build Dep
Rev 2 For Build Dep

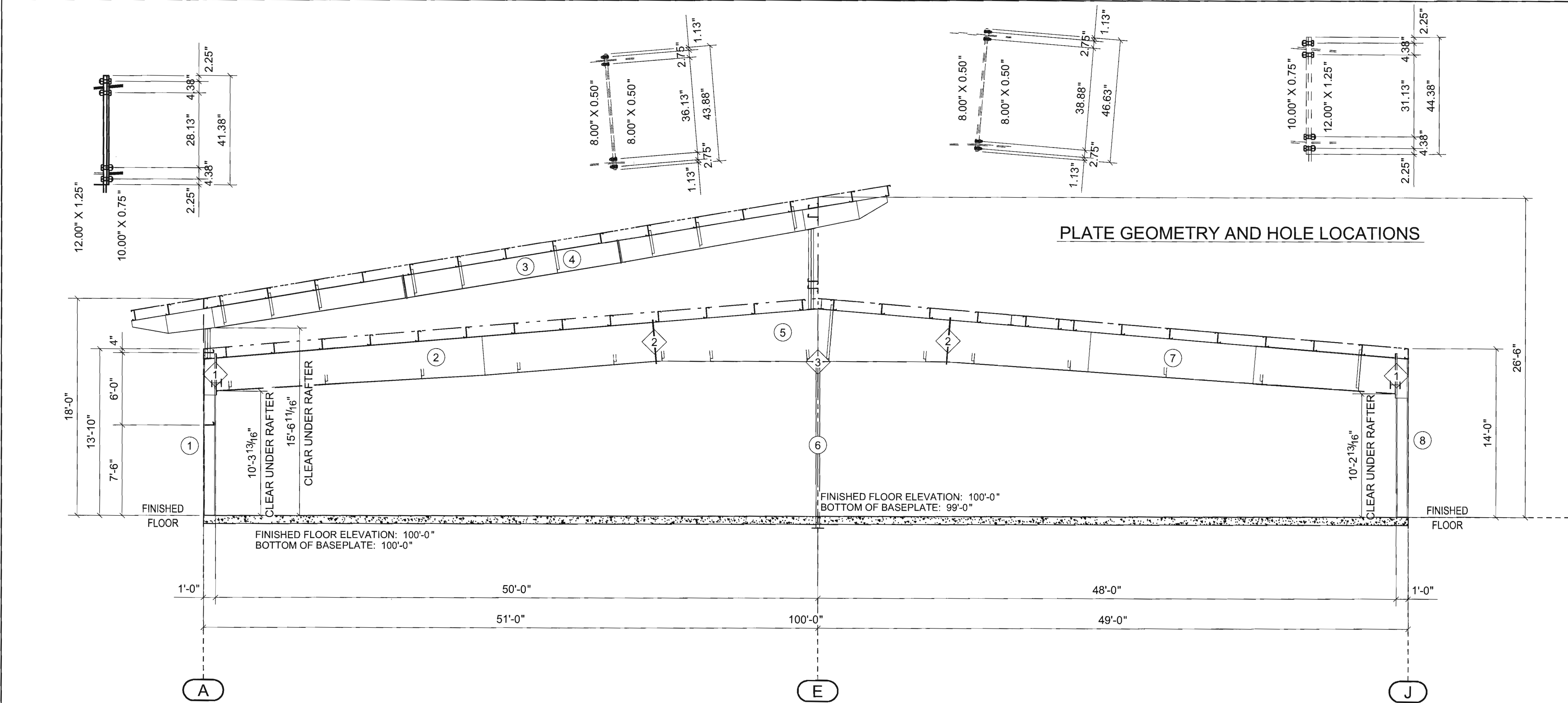
ISSUE
TKL
CAY

DATE
7/15/2016
11/22/2016
6/26/2017

REGISTERED PROFESSIONAL ENGINEER
CARY KENT CHRISTIANSEN
C 82426
EXP JUNE 30 2018
JUN 27 2017
CIVIL
STATE OF CALIFORNIA

06/26/2017 07:19:58pm
This seal pertains only to the materials designed and supplied by Nucor Building Systems, Inc. or Nucor Building Systems Corporation. The drawings and the metal building which they represent are the property of Nucor Building Systems, Inc. The registered professional engineer's name and seal as shown on these drawings is for identification purposes only and does not represent the project engineer of record and shall not be construed as such.

SHEET
P8 OF 14



Material Schedule											
ID	Low Plate		High Plate		Outside Flange		Inside Flange		Web		
	Width	Thick	Width	Thick	Width	Thick	Width	Thick	Depth1	Thick	Depth2
1	12.00	0.38	12.00	1.25	12.00	1.00	12.00	1.00	10.00	0.28	10.00
	-	-	-	-					10.00	0.31	10.00
2	10.00	0.75	8.00	0.50	8.00	0.63	8.00	0.63	32.00	0.19	38.50
	-	-	-	-	8.00	0.38	8.00	0.38	38.50	0.19	38.50
3	8.00	0.75	8.00	0.75	8.00	0.38	8.00	0.31	22.00	0.12	22.00
4	8.00	0.75	8.00	0.75	8.00	0.38	8.00	0.31	22.00	0.12	22.00
5	8.00	0.50	8.00	0.50	8.00	0.37	8.00	0.38	38.37	0.25	52.03
	-	-	-	-					52.03	0.25	41.11
6	10.00	0.50	10.00	0.50	-	-	-	-	3.63	4.00	4.00
7	10.00	0.75	8.00	0.50	8.00	0.63	8.00	0.63	35.00	0.19	36.98
	-	-	-	-	8.00	0.38	8.00	0.38	36.98	0.16	39.29
	-	-	-	-					39.29	0.19	41.25
8	12.00	0.38	12.00	1.25	12.00	1.00	12.00	1.00	10.00	0.28	10.00
	-	-	-	-					10.00	0.28	10.00

Notes:

For column and rafter mark numbers, see Mark Number Plan.

NS/FS indicates that flange bracing is required on both sides of the frame line.

For expandable endwall rigid frames, if flange bracing is required on both sides (NSFS) of an expandable endframe, the opposite side flange brace will have to be installed at the time of expansion. These flange braces have been provided, as required, for this future condition.

If NS/FS is NOT indicated, only one flange brace is required and can be located on either side of the frame.

*** indicates the long side of the interior columns. Columns at the ridge are typically "flat-top" columns, unless indicated by the *** symbol.

Rigid frames shall have 50% of their bolts installed and tightened on both sides of the web adjacent to each flange before the hoisting equipment is released.

Bolt Schedule				
ID	Qty	Bolt Description	Bolt #	Nut #
1	8	1 1/4" X 3 1/2" A325	H0660	H0340
2	8	5/8" X 2 1/4" A325	H0610	H0310
3	4	5/8" X 2 1/4" A325	H0610	H0310

PROJECT NAME

Winterhaven Public Safety Facility

CUSTOMER NAME

MPA Architects

Winterhaven, Imperial, CA

San Diego, CA

JOB NUMBER

U15S0716A

SHEET TITLE

Plate and Bolts at line 5

FOR BUILD DEPT. REV

SEM NDD KMB TKC

7/15/2016

REV 1 FOR BUILD DEP

TKL SEM KMB RRS

11/22/2016

REV 2 FOR BUILD DEP

CAY NVA KMB CKC

6/26/2017

PHONE:

FAX:

NUCOR

BUILDING SYSTEMS GROUP

ACI

ACI

REGISTERED PROFESSIONAL ENGINEER

CASEY KENT CHRISTENSEN

C 82426

EXP JUNE 30 2018

JUN 27 2017

CIVIL

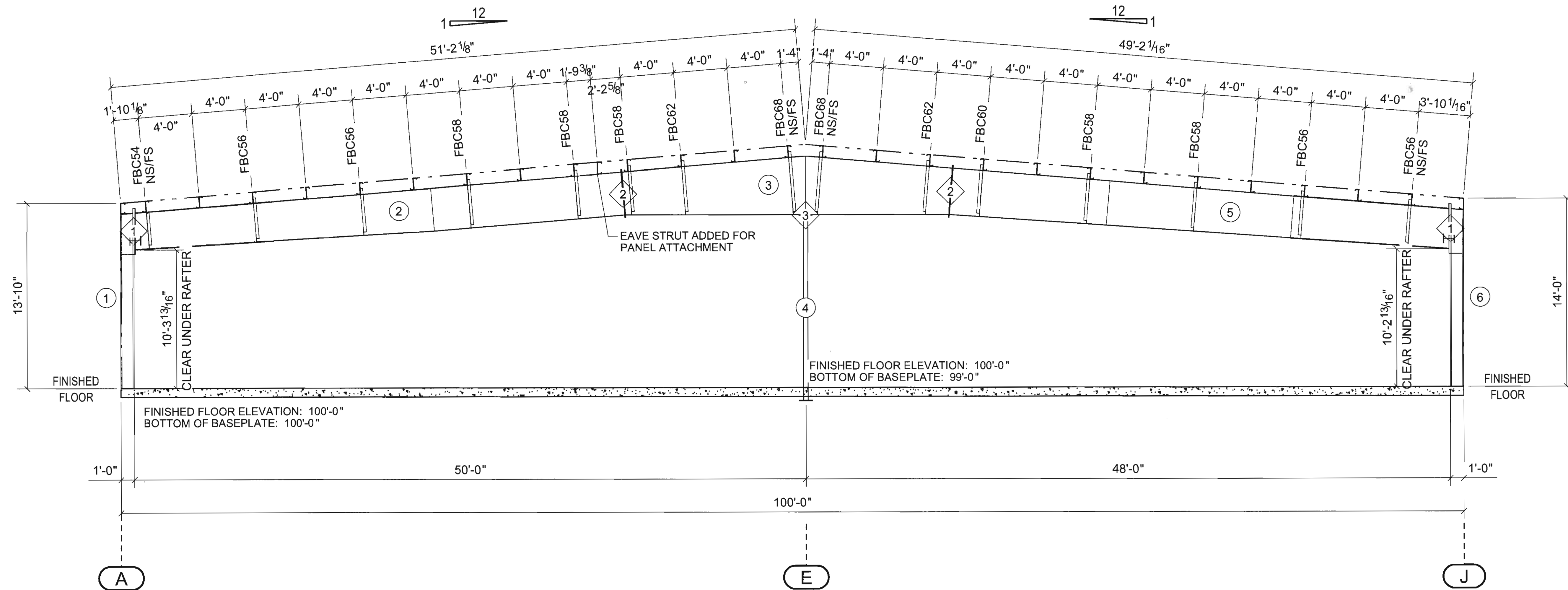
STATE OF CALIFORNIA

06/26/2017 07:20:01 PM

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SHEET

P9 OF 14



Material Schedule											
ID	Low Plate		High Plate		Outside Flange		Inside Flange		Web		
	Width	Thick	Width	Thick	Width	Thick	Width	Thick	Depth1	Thick	Depth2
1	12.00	0.38	12.00	1.25	12.00	1.00	12.00	1.00	10.00	0.28	10.00
	-	-	-	-					10.00	0.31	10.00
2	10.00	0.75	8.00	0.50	8.00	0.63	8.00	0.63	32.00	0.19	38.50
	-	-	-	-	8.00	0.38	8.00	0.38	38.50	0.19	38.50
3	8.00	0.50	8.00	0.50	8.00	0.37	8.00	0.38	38.37	0.25	52.03
	-	-	-	-					52.03	0.25	41.11
4	10.00	0.50	10.00	0.50	-	-	-	-	3.63	4.00	4.00
5	10.00	0.75	8.00	0.50	8.00	0.63	8.00	0.63	35.00	0.19	36.98
	-	-	-	-	8.00	0.38	8.00	0.38	36.98	0.16	39.29
	-	-	-	-					39.29	0.19	41.25
6	12.00	0.38	12.00	1.25	12.00	1.00	12.00	1.00	10.00	0.28	10.00
	-	-	-	-					10.00	0.28	10.00

Notes:

For column and rafter mark numbers, see Mark Number Plan.

NS/FS indicates that flange bracing is required on both sides of the frame line.

For expandable endwall rigid frames, if flange bracing is required on both sides (NSFS) of an expandable endframe, the opposite side flange brace will have to be installed at the time of expansion. These flange braces have been provided, as required, for this future condition.

If NS/FS is NOT indicated, only one flange brace is required and can be located on either side of the frame.

*** indicates the long side of the interior columns. Columns at the ridge are typically "flat-top" columns, unless indicated by the *** symbol.

Rigid frames shall have 50% of their bolts installed and tightened on both sides of the web adjacent to each flange before the hoisting equipment is released.

Bolt Schedule				
ID	Qty	Bolt Description	Bolt #	Nut #
1	8	1 1/4" X 3 1/2" A325	H0660	H0340
2	8	5/8" X 2 1/4" A325	H0610	H0310
3	4	5/8" X 2 1/4" A325	H0610	H0310

THIS seal pertains only to the materials designed by the Building Systems, a division of Nucor Corporation. The drawings they represent are the product of Nucor Building Systems and not the product of an engineer whose seal appears on these drawings. Building Systems and does not serve as or represent the project engineer construed as such.	PROJECT NAME Winterhaven Public Safety Facility Winterhaven, Imperial, CA		CUSTOMER NAME MPA Architects San Diego, CA		SHEET P10 OF 14
	JOB NUMBER U15S0716A		SHEET TITLE Cross Section at line 6		
	NUCOR BUILDING SYSTEMS GROUP 1050 North Watery Lane Brigham City, UT 84302 Phone: (435) 919-3100 Fax: (435) 919-3101				
	For Build Dept. Rev Rev 1 For Build Dep Rev 2 For Build Dep	SEM NDD KMB TKC TKL SEM KMB RRS CAY NVA KMB CKC	DWG CHK ENG PE	DATE 7/15/2016 11/22/2016 6/26/2017	

Material Schedule											
ID	Low Plate		High Plate		Outside Flange		Inside Flange		Web		
	Width	Thick	Width	Thick	Width	Thick	Width	Thick	Depth1	Thick	Depth2
1	12.00	0.38	12.00	1.25	12.00	1.00	12.00	1.00	10.00	0.28	10.00
	-	-	-	-					10.00	0.31	10.00
2	10.00	0.75	8.00	0.50	8.00	0.63	8.00	0.63	32.00	0.19	38.50
	-	-	-	-	8.00	0.38	8.00	0.38	38.50	0.19	38.50
3	8.00	0.50	8.00	0.50	8.00	0.37	8.00	0.38	38.37	0.25	52.03
	-	-	-	-					52.03	0.25	41.11
4	10.00	0.50	10.00	0.50	-	-	-	-	3.63	4.00	4.00
5	10.00	0.75	8.00	0.50	8.00	0.63	8.00	0.63	35.00	0.19	36.98
	-	-	-	-	8.00	0.38	8.00	0.38	36.98	0.16	39.29
	-	-	-	-					39.29	0.19	41.25
6	12.00	0.38	12.00	1.25	12.00	1.00	12.00	1.00	10.00	0.28	10.00
	-	-	-	-					10.00	0.28	10.00

Notes:

For column and rafter mark numbers, see Mark Number Plan.

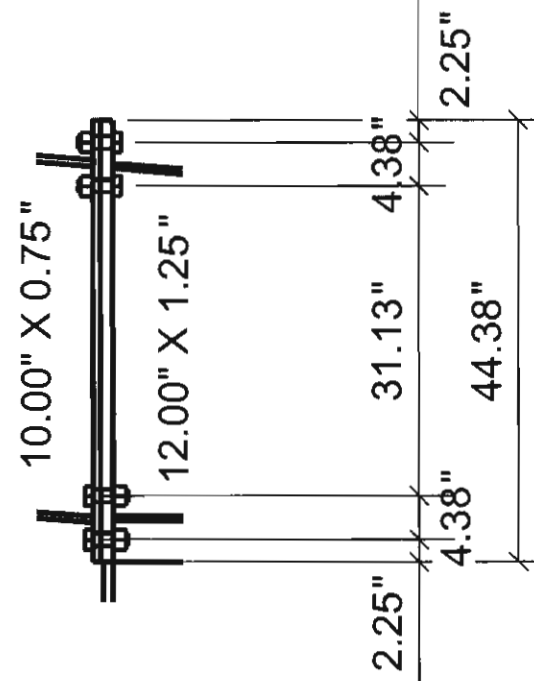
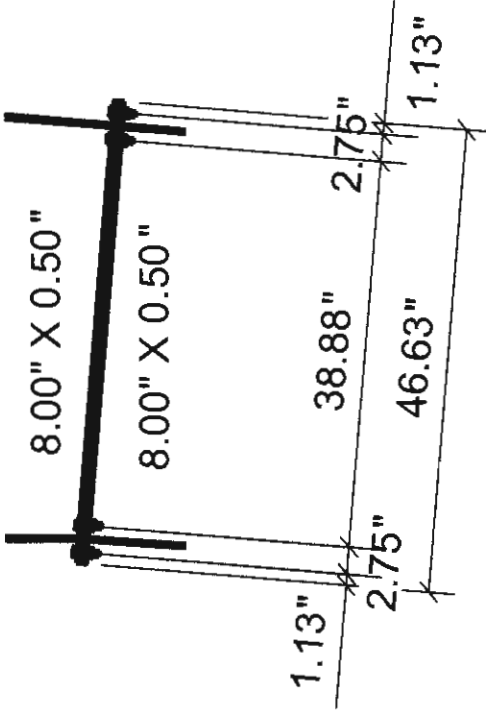
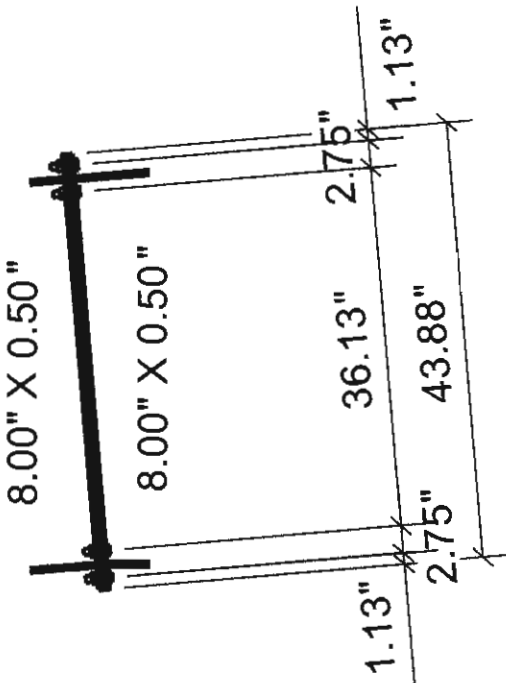
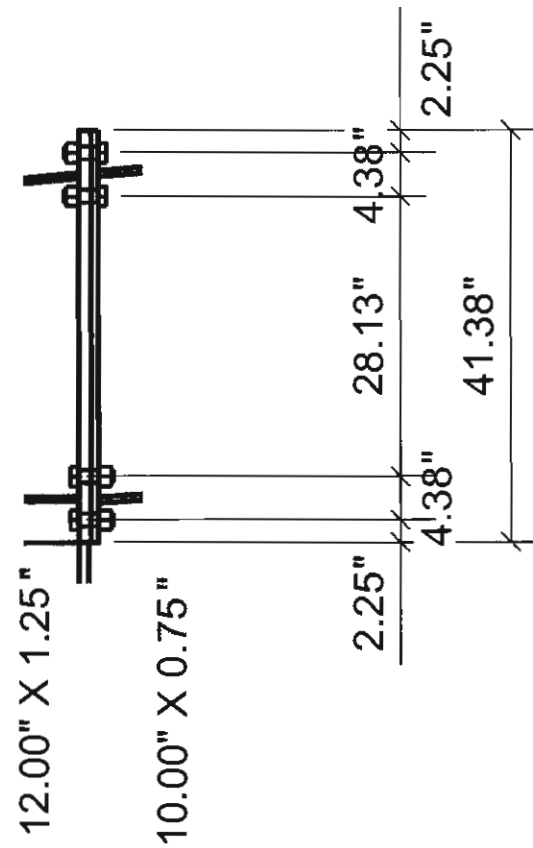
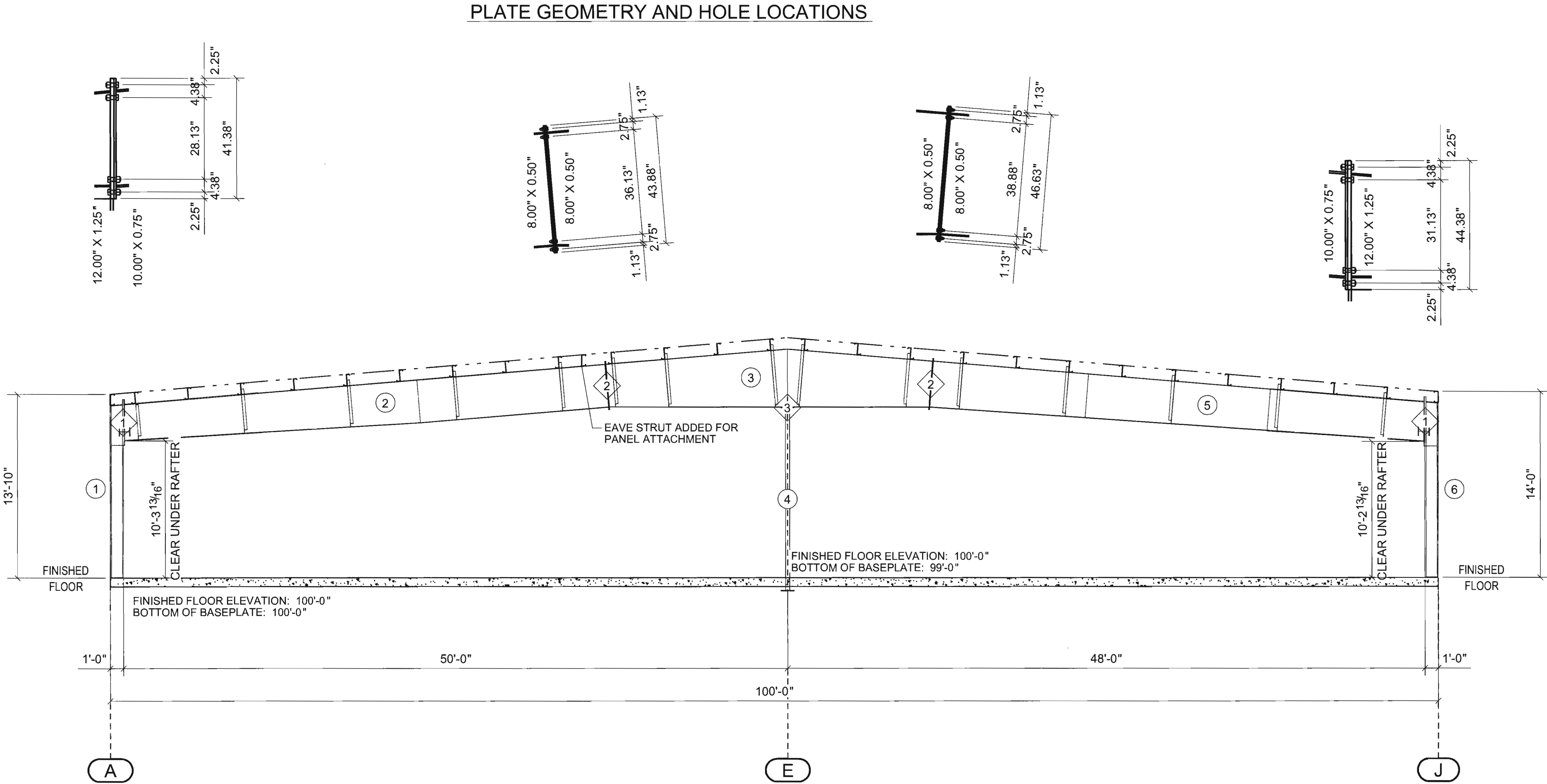
NS/FS indicates that flange bracing is required on both sides of the frame line.

For expandable endwall rigid frames, if flange bracing is required on both sides (NSFS) of an expandable endframe, the opposite side flange brace will have to be installed at the time of expansion. These flange braces have been provided, as required, for this future condition.

If NS/FS is NOT indicated, only one flange brace is required and can be located on either side of the frame.

*** indicates the long side of the interior columns. Columns at the ridge are typically "flat-top" columns, unless indicated by the *** symbol.

Rigid frames shall have 50% of their bolts installed and tightened on both sides of the web adjacent to each flange before the hoisting equipment is released.



Bolt Schedule				
ID	Qty	Bolt Description	Bolt #	Nut #
1	8	1 1/4" X 3 1/2" A325	H0660	H0340
2	8	5/8" X 2 1/4" A325	H0610	H0310
3	4	5/8" X 2 1/4" A325	H0610	H0310

PROJECT NAME
Winterhaven Public Safety Facility
Winterhaven, Imperial, CA

CUSTOMER NAME
MPA Architects
San Diego, CA

JOB NUMBER
U15S0716A

ISSUE
For Build Dept. Rev
Rev 1 For Build Dep
Rev 2 For Build Dep

DATE
7/15/2016
11/22/2016
6/26/2017

FOR BUILD DEPT. REV
Rev 1 For Build Dep
Rev 2 For Build Dep

DATE
7/15/2016
11/22/2016
6/26/2017

NUCOR
BUILDING SYSTEMS GROUP

Phone:
Fax:

REGISTERED PROFESSIONAL ENGINEER
C 82226
EXP. DATE 06/30/2018
JUN 27 2017
CIVIL
STATE OF CALIFORNIA

SHEET
P11 OF 14

Material Schedule											
ID	Low Plate		High Plate		Outside Flange		Inside Flange		Web		
	Width	Thick	Width	Thick	Width	Thick	Width	Thick	Depth1	Thick	Depth2
1	10.00	0.38	10.00	0.50	10.00	0.50	10.00	0.38	11.12	0.15	11.12
	-	-	-	-					11.12	0.15	11.12
2	8.00	0.50	8.00	0.38	8.00	0.31	8.00	0.31	32.00	0.15	25.00
	-	-	-	-	8.00	0.25	8.00	0.25	25.00	0.13	25.00
	-	-	-	-					25.00	0.13	25.00
3	8.00	0.50	8.00	0.50	8.00	0.31	8.00	0.31	24.91	0.19	38.58
	-	-	-	-					38.58	0.19	27.65
4	8.00	0.38	8.00	0.37	5.00	0.19	5.00	0.19	11.38	0.13	11.38
5	8.00	0.50	8.00	0.38	8.00	0.31	8.00	0.31	35.00	0.16	25.00
	-	-	-	-	8.00	0.25	8.00	0.25	25.00	0.13	25.00
	-	-	-	-					25.00	0.15	27.75
6	10.00	0.38	10.00	0.50	10.00	0.50	10.00	0.37	11.13	0.15	11.13
	-	-	-	-					11.13	0.15	11.13

Notes:

For column and rafter mark numbers, see Mark Number Plan.

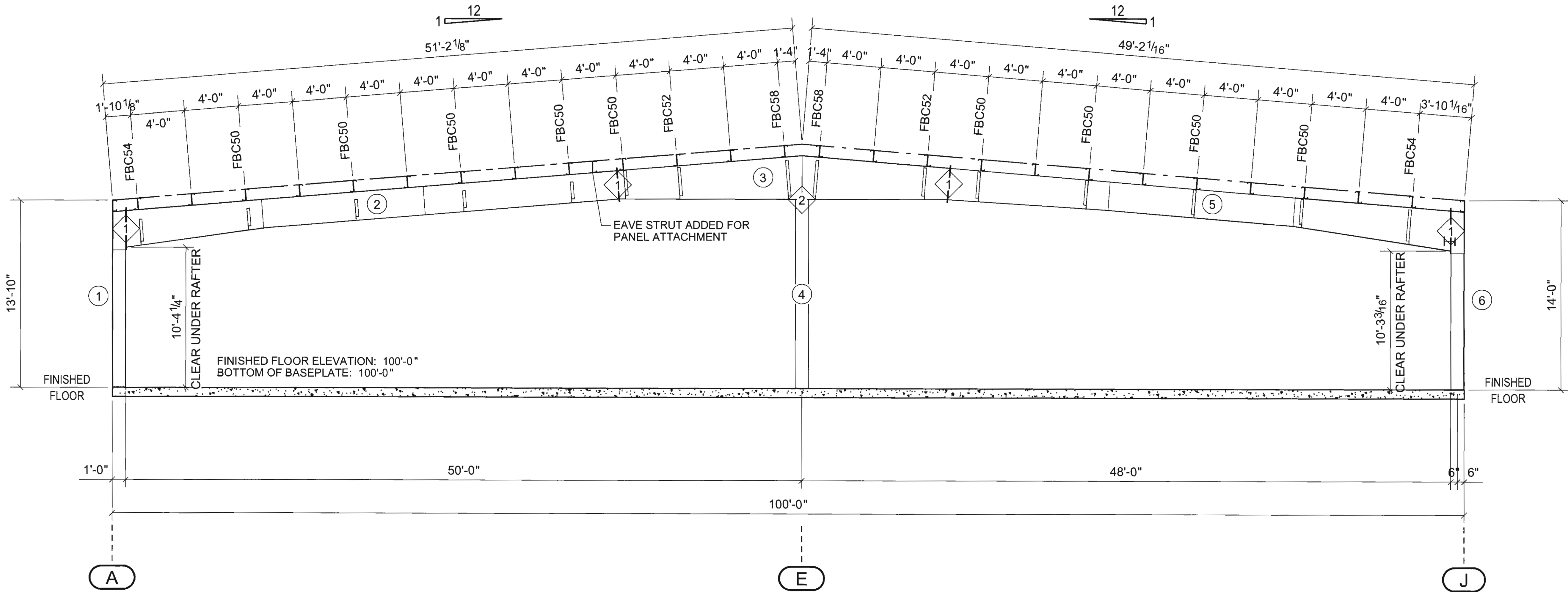
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Rigid frames shall have 50% of their bolts installed and tightened on both sides of the web adjacent to each flange before the hoisting equipment is released.



Bolt Schedule				
ID	Qty	Bolt Description	Bolt #	Nut #
1	8	5/8" X 2 1/4" A325	H0610	H0310
2	4	5/8" X 2 1/4" A325	H0610	H0310

PROJECT NAME
Winterhaven Public Safety Facility
Winterhaven, Imperial, CA

CUSTOMER NAME
MPA Architects
San Diego, CA

06/26/2017 07:20:06am
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material design engineering
submitted to the Division of Building
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Corporation. The drawings,
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they represent are the product
of NUCOR BUILDING SYSTEMS,
an engineer whose seal appears
on these drawings. It is not to be
used to represent the project engineer
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constructed as such.

REGISTERED PROFESSIONAL ENGINEER
C82426
EXP. DATE: JUNE 30, 2018
JUN 27 2017
CIVIL
STATE OF CALIFORNIA

For Build Dept. Rev
Rev 1 For Build Dep
Rev 2 For Build Dep

SEM NDD KMB TKC
TKL SEM KMB RRS
CAY NVA KMB CKC

DATE
7/15/2016
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6/26/2017

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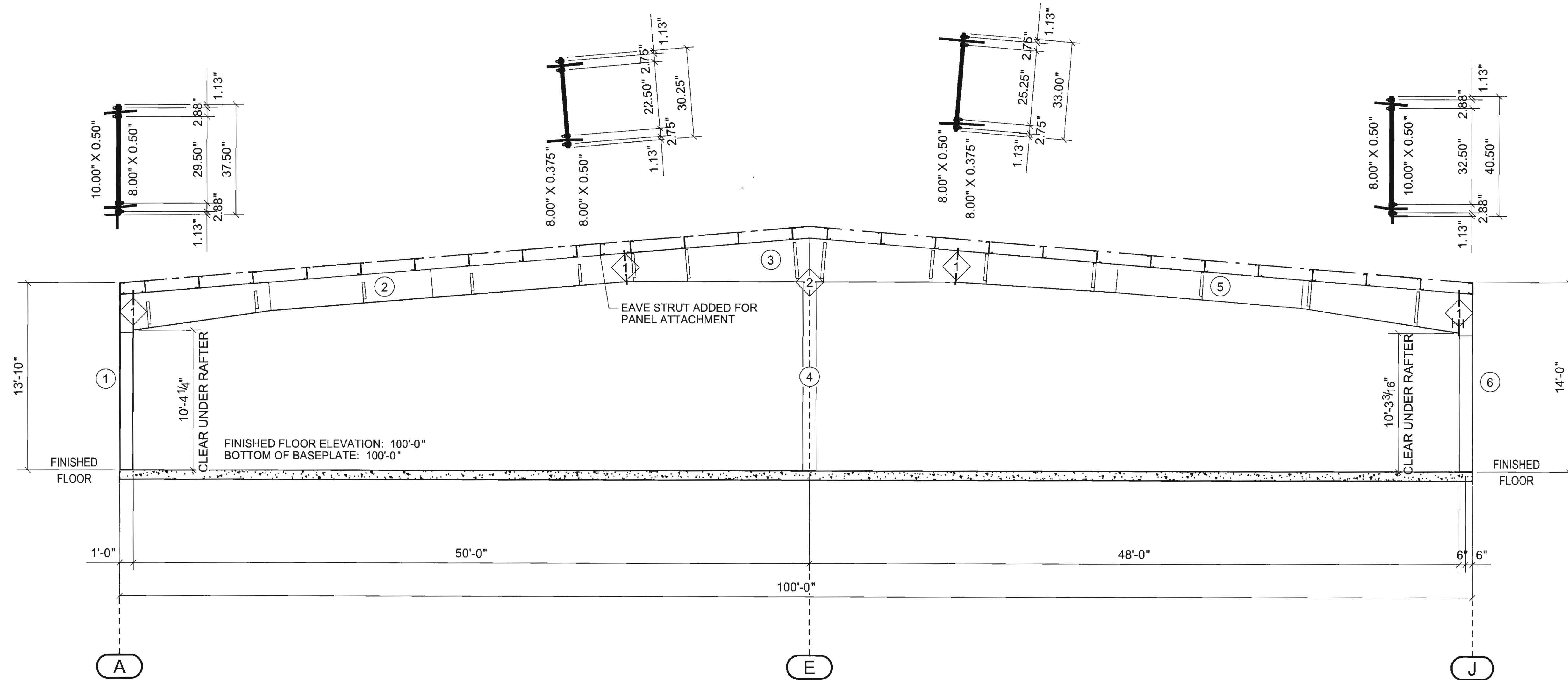
1194

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1

PLATE GEOMETRY AND HOLE LOCATIONS



Material Schedule

ID	Low Plate		High Plate		Outside Flange		Inside Flange		Web		
	Width	Thick	Width	Thick	Width	Thick	Width	Thick	Depth1	Thick	Depth2
1	10.00	0.38	10.00	0.50	10.00	0.50	10.00	0.38	11.12	0.15	11.12
	-	-	-	-					11.12	0.15	11.12
2	8.00	0.50	8.00	0.38	8.00	0.31	8.00	0.31	32.00	0.15	25.00
	-	-	-	-	8.00	0.25	8.00	0.25	25.00	0.13	25.00
	-	-	-	-					25.00	0.13	25.00
3	8.00	0.50	8.00	0.50	8.00	0.31	8.00	0.31	24.91	0.19	38.58
	-	-	-	-					38.58	0.19	27.65
4	8.00	0.38	8.00	0.37	5.00	0.19	5.00	0.19	11.38	0.13	11.38
5	8.00	0.50	8.00	0.38	8.00	0.31	8.00	0.31	35.00	0.16	25.00
	-	-	-	-	8.00	0.25	8.00	0.25	25.00	0.13	25.00
	-	-	-	-					25.00	0.15	27.75
6	10.00	0.38	10.00	0.50	10.00	0.50	10.00	0.37	11.13	0.15	11.13
	-	-	-	-					11.13	0.15	11.13

Notes:

For column and rafter mark numbers, see Mark Number Plan.

NS/FS indicates that flange bracing is required on both sides of the frame line.

For expandable endwall rigid frames, if flange bracing is required on both sides (NSFS) of an expandable endframe, the opposite side flange brace will have to be installed at the time of expansion. These flange braces have been provided, as required, for this future condition.

If NS/FS is NOT indicated, only one flange brace is required and can be located on either side of the frame.

*** indicates the long side of the interior columns. Columns at the ridge are typically "flat-top" columns, unless indicated by the "***" symbol.

Rigid frames shall have 50% of their bolts installed and tightened on both sides of the web adjacent to each flange before the hoisting equipment is released.

Bolt Schedule

Bolt Schedule				
ID	Qty	Bolt Description	Bolt #	Nut #
1	8	5/8" X 2 1/4" A325	H0610	H0310
2	4	5/8" X 2 1/4" A325	H0610	H0310

NUCOR
BUILDING SYSTEMS GROUP

Phone: 800.368.6262
Fax: 800.368.6262

NUCOR
STEEL
CONSTRUCTION
AC472

PROJECT NAME
Winterhaven Public Safety Facility
Winterhaven, Imperial, CA

CUSTOMER NAME
MPA Architects
San Diego, CA

JOB NUMBER	SHEET TITLE
------------	-------------

ITEM NUMBER	ITEM TITLE
U15S0716A	Plate and Bolts at line 7

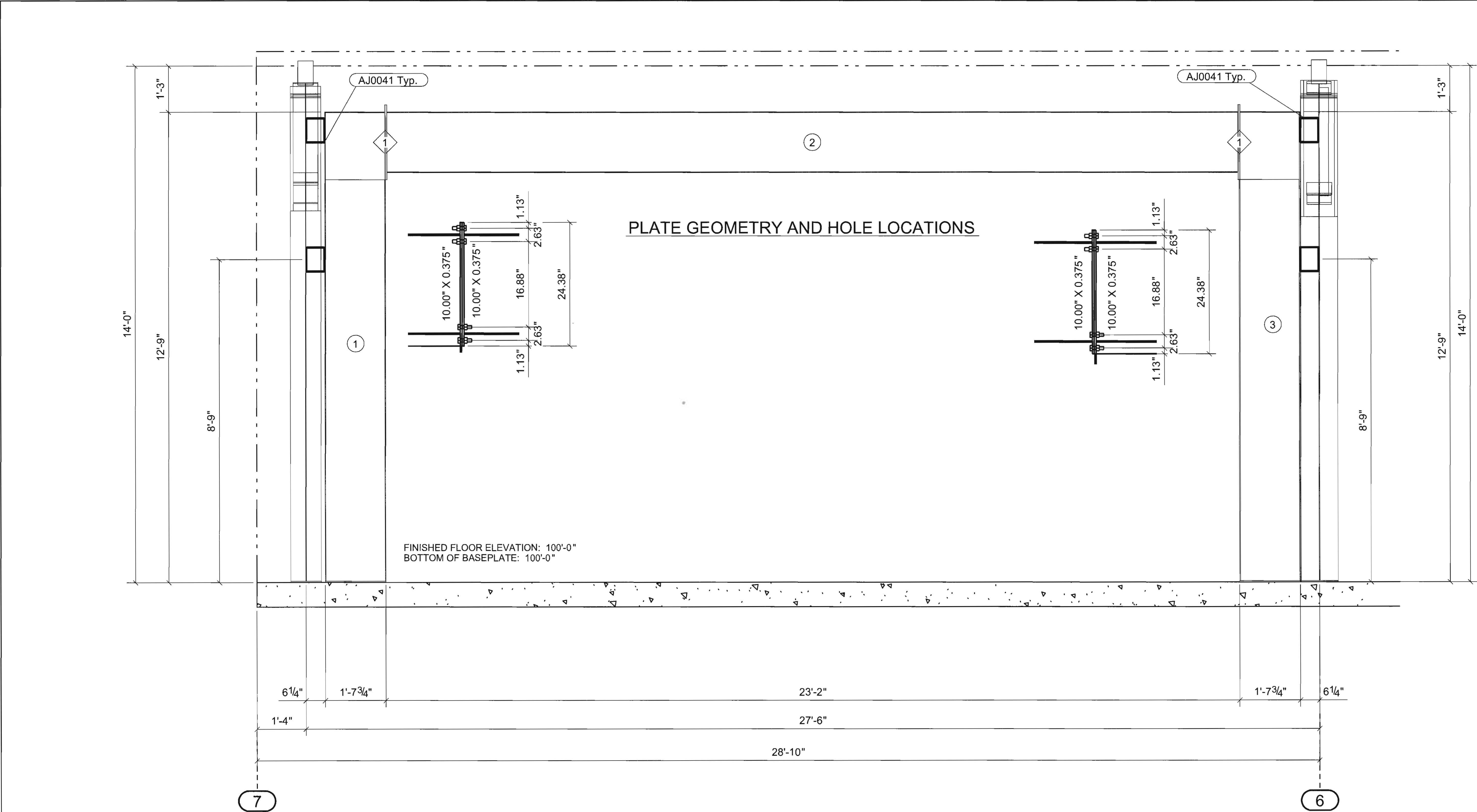
Phone:
Fax:

06/16/2017 07:40:08am

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SHEET

P13 OF 14



Notes:

For column and rafter mark numbers, see Mark Number Plan.

NS/FS indicates that flange bracing is required on both sides of the frame line.

For expandable endwall rigid frames, if flange bracing is required on both sides (NS/FS) of an expandable endframe, the opposite side flange brace will have to be installed at the time of expansion. These flange braces have been provided, as required, for this future condition.

If NS/FS is NOT indicated, only one flange brace is required and can be located on either side of the frame.

*** indicates the long side of the interior columns. Columns at the ridge are typically "flat-top" columns, unless indicated by the "***" symbol.

Rigid frames shall have 50% of their bolts installed and tightened on both sides of the web adjacent to each flange before the hoisting equipment is released.

Material Schedule											
ID	Low Plate		High Plate		Outside Flange		Inside Flange		Web		
	Width	Thick	Width	Thick	Width	Thick	Width	Thick	Depth1	Thick	Depth2
1	8.00	0.38	10.00	0.38	8.00	0.25	8.00	0.25	19.25	0.13	19.25
	-	-	-	-					19.25	0.16	19.25
2	10.00	0.38	10.00	0.38	8.00	0.25	8.00	0.25	19.25	0.13	19.25
3	8.00	0.38	10.00	0.38	8.00	0.25	8.00	0.25	19.25	0.13	19.25
	-	-	-	-					19.25	0.16	19.25

Bolt Schedule				
ID	Qty	Bolt Description	Bolt #	Nut #
1	8	5/8" X 2 1/4" A325	H0610	H0310

PROJECT NAME

Winterhaven Public Safety Facility

CUSTOMER NAME

MPA Architects

U15S0716A

SHEET TITLE

Portal Cross Section at line J

NUCOR

BUILDING SYSTEMS GROUP

1050 North Watery Lane

Brigham City, UT 84302

Phone: (435) 919-3100

Fax: (435) 919-3101

REGISTERED PROFESSIONAL ENGINEER

CASEY KENT CHRISTENSEN

EXP. DATE: JUNE 30, 2018

JULY 27, 2017

CIVIL

STATE OF CALIFORNIA

DATE

7/15/2016

ISSUE

For Build Dept. Rev

Rev 1 For Build Dep

Rev 2 For Build Dep

OWN

CHK

ENG

PE

SEM NDD KMB

TKC

TKL SEM KMB RRS

CAY NVA KMB CKC

DATE

7/15/2016

11/22/2016

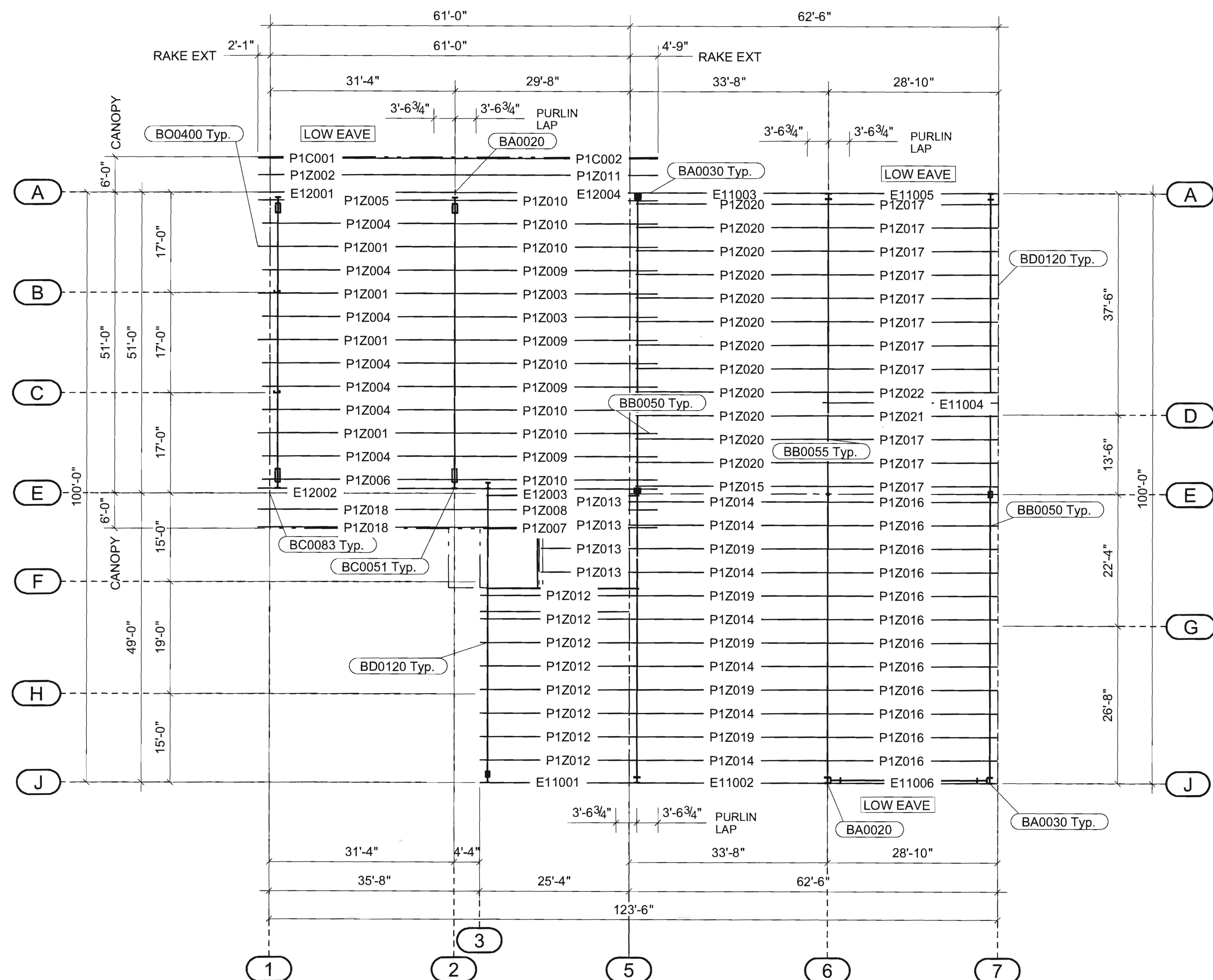
6/26/2017

06/26/2017

07:20:10am

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P14 OF 14



Part Sizes		DATE
E11001	10E099	7/15/2016
E11002	10E099	7/15/2016
E11003	10E099	7/15/2016
E11004	10E099	7/15/2016
E11005	10E099	7/15/2016
E11006	10E099	7/15/2016
E12001	10E099	11/22/2016
E12002	10E099	11/22/2016
E12003	10E099	6/26/2017
E12004	10E099	
P1C001	10C060	
P1C002	10C060	
P1Z001	10Z089	
P1Z002	10Z060	
P1Z003	10Z120	
P1Z004	10Z089	
P1Z005	10Z089	
P1Z006	10Z089	
P1Z007	10Z060	
P1Z008	10Z075	
P1Z009	10Z120	
P1Z010	10Z120	
P1Z011	10Z075	
P1Z012	10Z075	
P1Z013	10Z060	
P1Z014	10Z075	
P1Z015	10Z089	
P1Z016	10Z089	
P1Z017	10Z099	
P1Z018	10Z060	
P1Z019	10Z075	
P1Z020	10Z089	
P1Z021	10Z099	
P1Z022	10Z099	
P1Z023	10Z075	

Notes: _____

Purlin and eave strut connection bolt requirements: A307 and A325 bolts are both used. Refer to the details for specific requirements.

See cross section drawings for main frame flange bracing.

06/28/2017 07:20:12am
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PROJECT NAME
Winterhaven Public Safety Facility
Winterhaven, Imperial, CA
CUSTOMER NAME
MPA Architects
San Diego, CA
JOB NUMBER
U15S0716A
SHEET TITLE
Roof Framing Plan
R1 OF 2

06/28/2017 07:20:12am
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PROJECT NAME
Winterhaven Public Safety Facility
Winterhaven, Imperial, CA
CUSTOMER NAME
MPA Architects
San Diego, CA
JOB NUMBER
U15S0716A
SHEET TITLE
Roof Framing Plan
R1 OF 2

06/28/2017 07:20:12am
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PROJECT NAME
Winterhaven Public Safety Facility
Winterhaven, Imperial, CA
CUSTOMER NAME
MPA Architects
San Diego, CA
JOB NUMBER
U15S0716A
SHEET TITLE
Roof Framing Plan
R1 OF 2

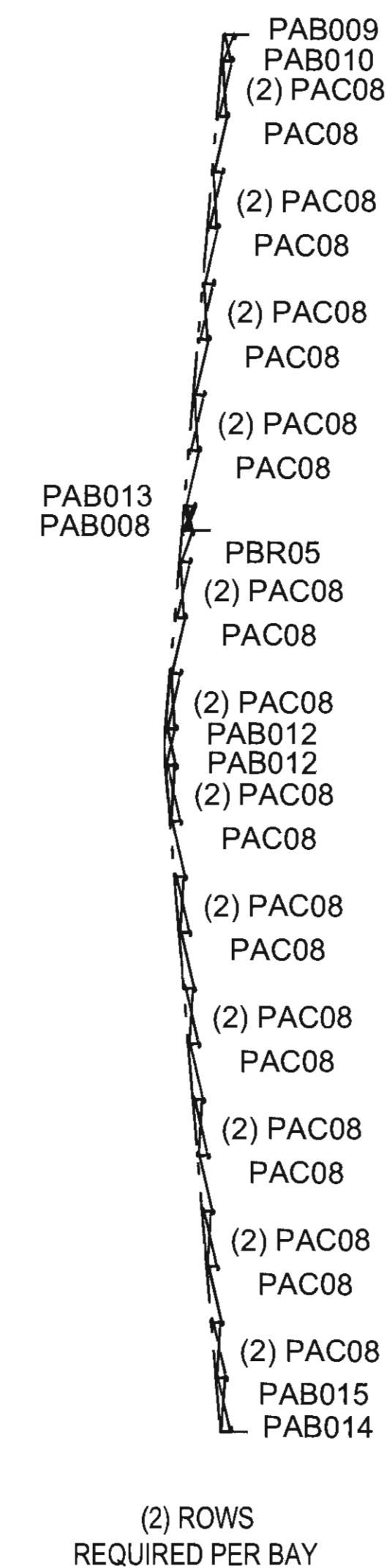
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PROJECT NAME
Winterhaven Public Safety Facility
Winterhaven, Imperial, CA
CUSTOMER NAME
MPA Architects
San Diego, CA
JOB NUMBER
U15S0716A
SHEET TITLE
Roof Framing Plan
R1 OF 2

06/28/2017 07:20:12am
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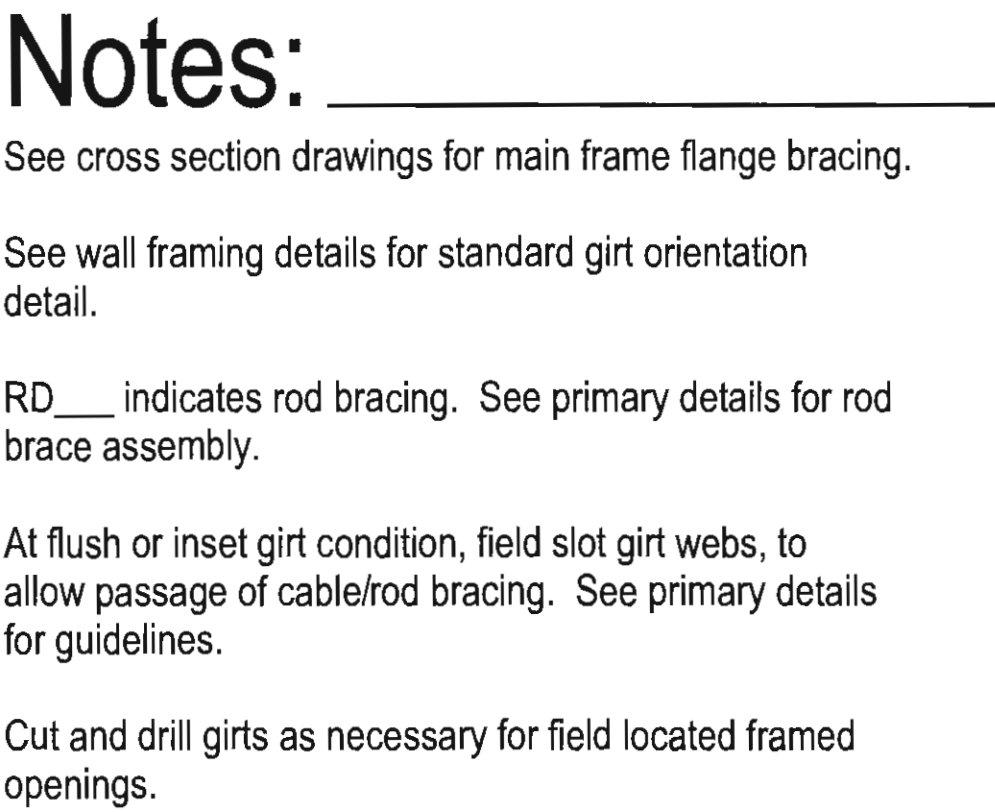
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Winterhaven Public Safety Facility
Winterhaven, Imperial, CA
CUSTOMER NAME
MPA Architects
San Diego, CA
JOB NUMBER
U15S0716A
SHEET TITLE
Roof Framing Plan
R1 OF 2

DATE	ISSUE	FOR BUILD DEPT. REV	FOR BUILD DEPT. REV	FOR BUILD DEPT. REV
7/15/2016	TKC	SEM INDD KMB	TKC	SEM INDD KMB
11/22/2016	TKC	TKL SEM KMB	RRS	TKL SEM KMB
6/26/2017	CKC	CAY NVA	KMB	CKC

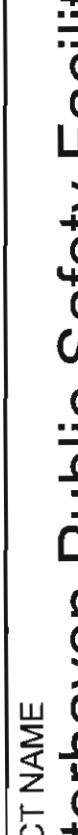




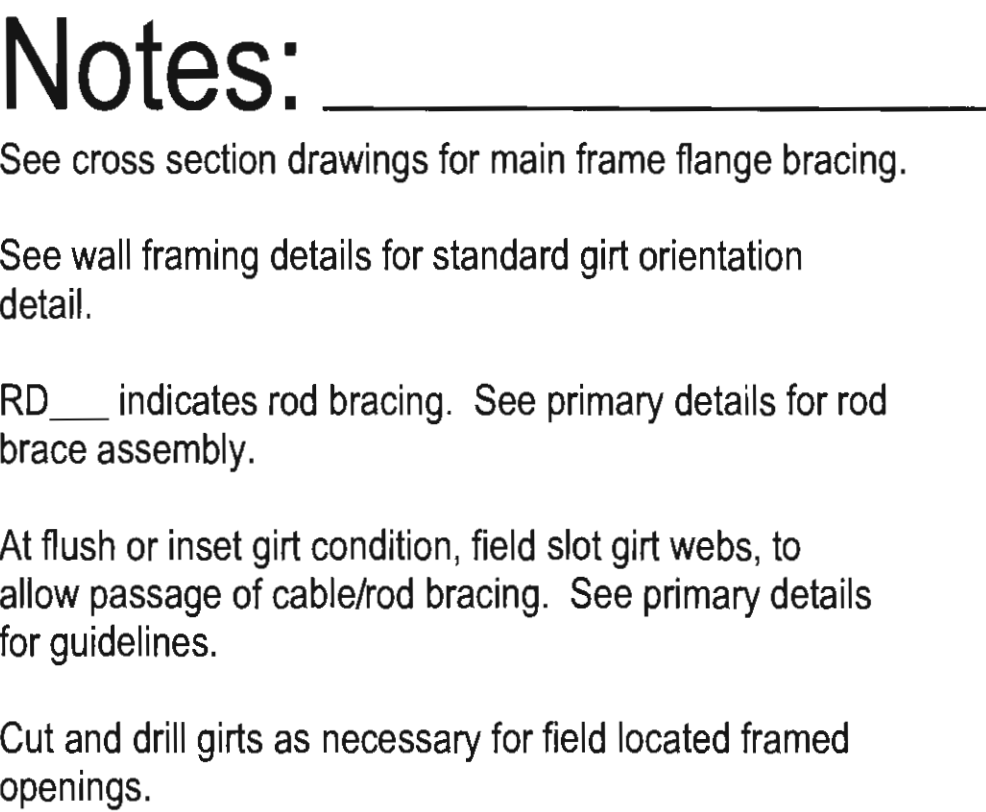
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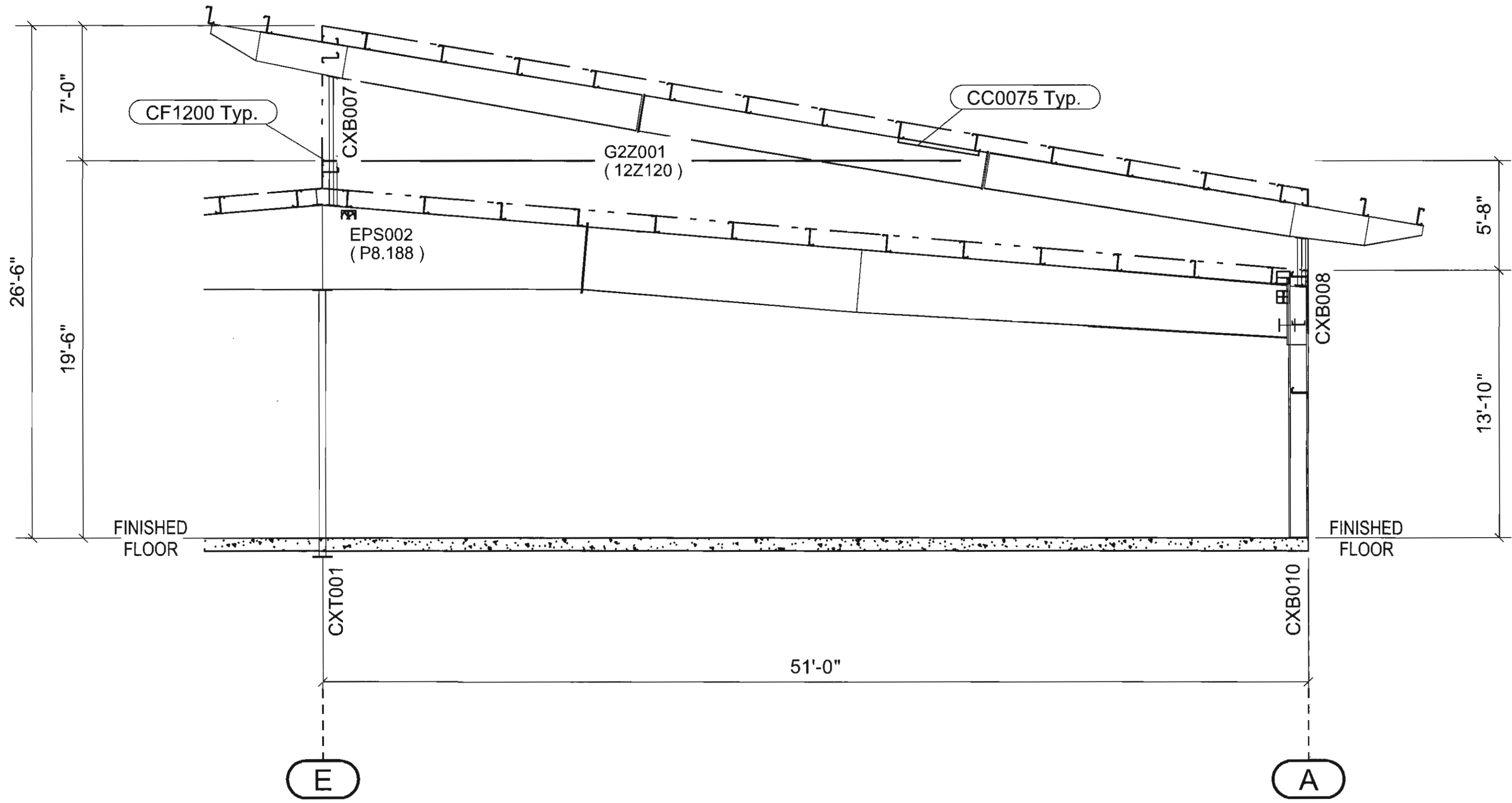
PAB_/PAC__ indicates purlin bracing. See roof framing details section BE____ for more info.



Framed Opening Schedule					
ID	Qty	W X H	Header	Left Jamb	Right Jamb
1	3	12'-0" X 14'-0"	H8C001	J8S002	J8S001

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	W1 OF 4											
			PROJECT NAME		NUCOR							
			Winterhaven Public Safety Facility Winterhaven, Imperial, CA		BUILDING SYSTEMS GROUP							
			CUSTOMER NAME		1050 North Watery Lane Bingham City, UT 84302 Phone: (435) 919-3100 Fax: (435) 919-3101							
			MPA Architects San Diego, CA		  AC412							
JOB NUMBER		SHEET TITLE		For Build Dept. Rev		SEM NDD KMB TKC		DATE				
U15S0716A		Wall Framing Elevation at line 1		Rev 1 For Build Dep		TKL SEM KMB RRS		7/15/2016				
				Rev 2 For Build Dep		CAY NVA KMB CKC		6/26/2017				

[illegible]



Notes:

See cross section drawings for main frame flange bracing.

See wall framing details for standard girt orientation detail.

RD ___ indicates rod bracing. See primary details for rod brace assembly.

At flush or inset girt condition, field slot girt webs, to allow passage of cable/rod bracing. See primary details for guidelines.

Cut and drill girts as necessary for field located framed openings.

06/26/2017 07:20:21am
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REGISTERED PROFESSIONAL ENGINEER
CIVIL
STATE OF CALIFORNIA
C 82426
EXP. DATE 06/30/2018
JUN 27 2017
KENT CHRISTIANSEN


PROJECT NAME
Winterhaven Public Safety Facility
Winterhaven, Imperial, CA

CUSTOMER NAME
MPA Architects
San Diego, CA

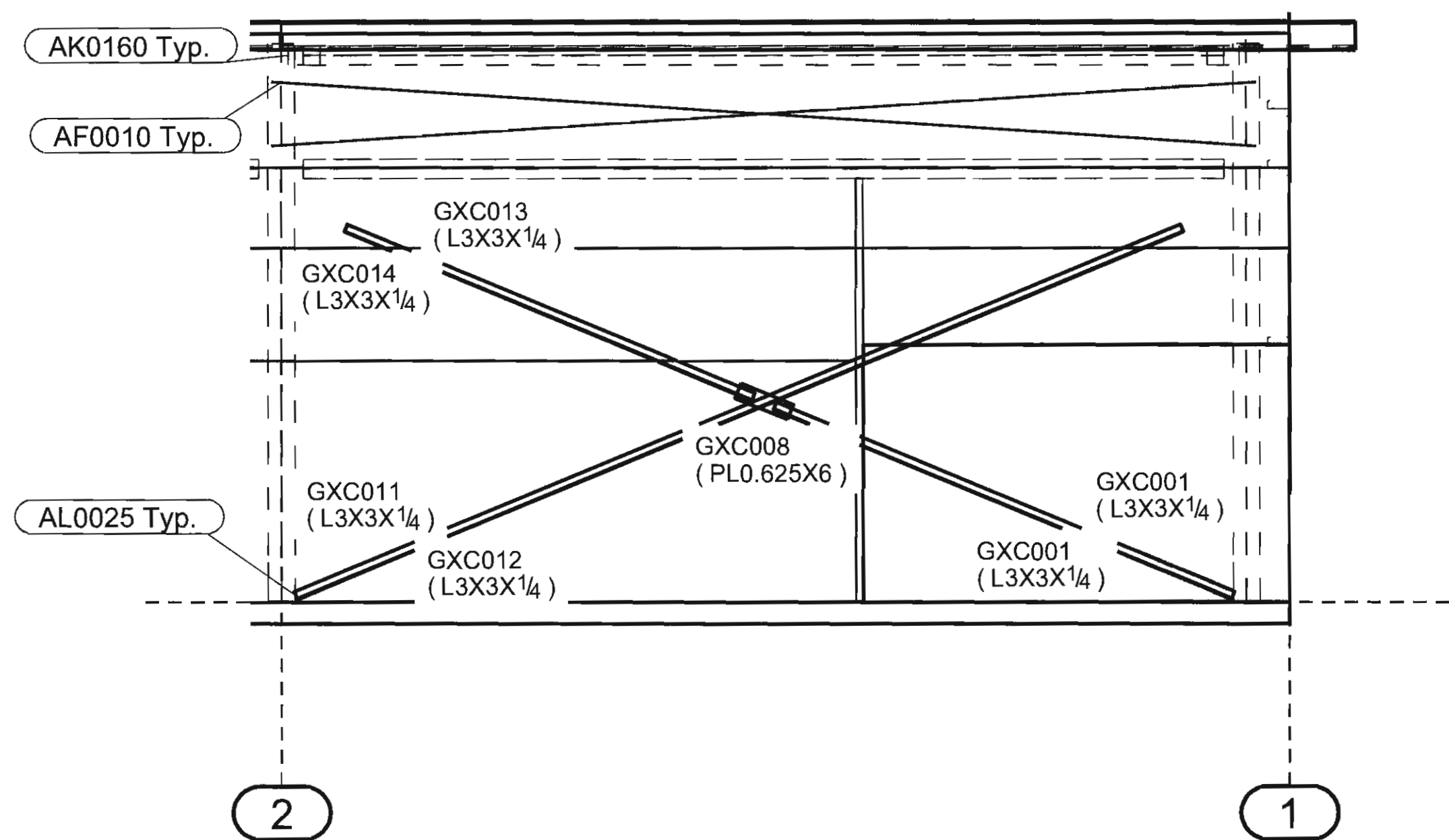
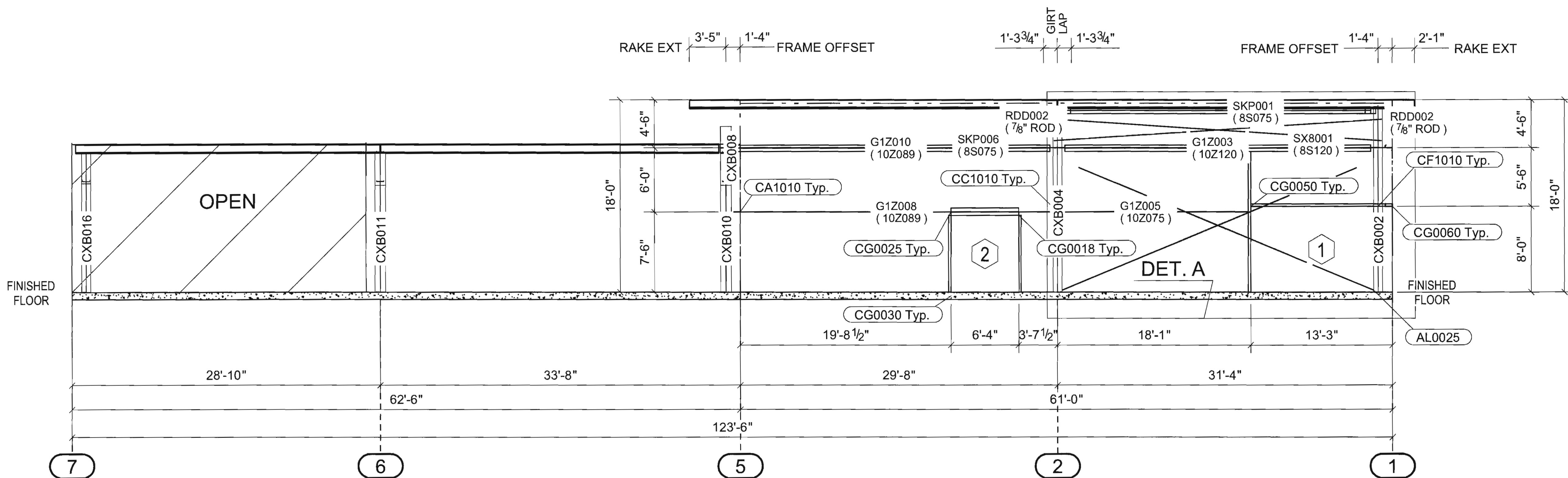
JOB NUMBER
U15S0716A

SHEET TITLE
Wall Framing Elevation at line 5

NUCOR
BUILDING SYSTEMS GROUP
1050 North Watery Lane
Brigham City, UT 84302
Phone: (435) 919-3100
Fax: (435) 919-3101



For Build Dept. Rev	SEM NDD KMB TKC	DATE	7/15/2016
Rev 1 For Build Dep	TKL SEM KMB RRS	DATE	11/22/2016
Rev 2 For Build Dep	CAY NVA KMB CKC	DATE	6/26/2017



DETAIL A

Framed Opening Schedule

ID	Qty	W X H	Header	Left Jamb	Right Jamb
1	1	13'-3" X 8'-0"	H1C002	J1C004	-
2	1	6'-4" X 7'-2"	HW1003	J1C007	J1C007

Notes:

See cross section drawings for main frame flange bracing.

See wall framing details for standard girt orientation detail.

RD___ indicates rod bracing. See primary details for rod brace assembly.

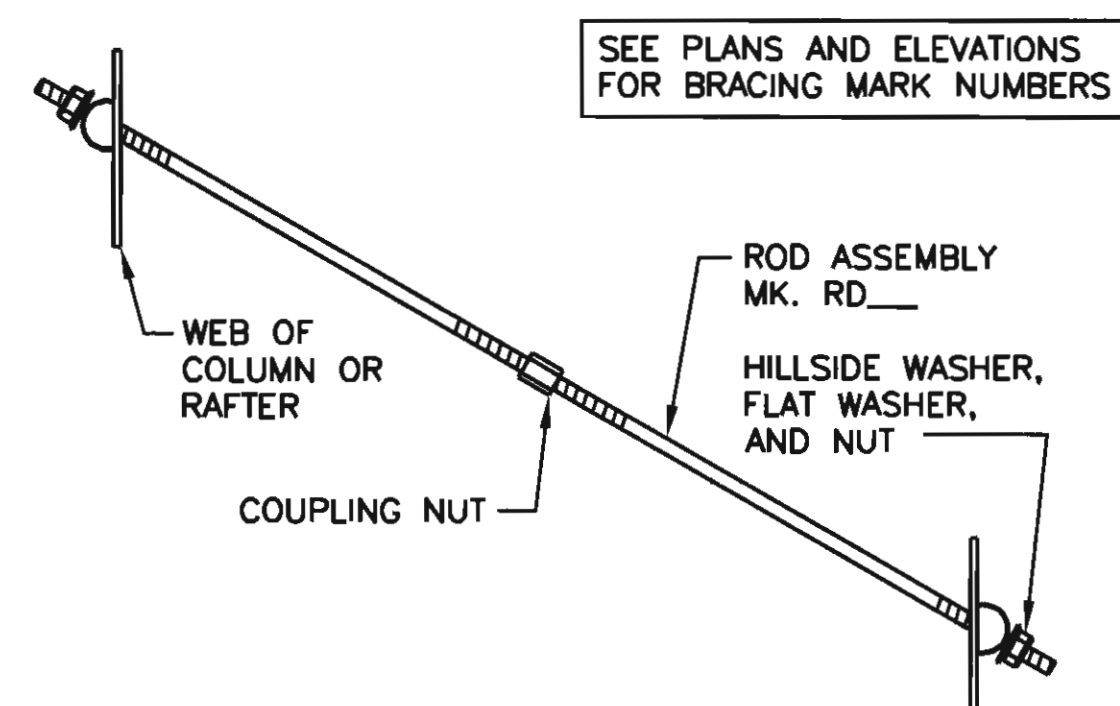
At flush or inset girt condition, field slot girt webs, to allow passage of cable/rod bracing. See primary details for guidelines.

Cut and drill girts as necessary for field located framed openings.

NUCOR BUILDING SYSTEMS GROUP 1050 North Watery Lane Brigham City, UT 84302 Phone: (435) 919-3100 Fax: (435) 919-3101		PROJECT NAME Winterhaven Public Safety Facility Winterhaven, Imperial, CA CUSTOMER NAME MPA Architects San Diego, CA		JOB NUMBER U15S0716A SHEET TITLE Wall Framing Elevation at line A	
For Build Dept. Rev Rev 1 For Build Dep Rev 2 For Build Dep	SEM NDD KMB TKC TKL SEM KMB RRS CAY NVA KMB CKC	DATE 7/15/2016 11/22/2016 6/26/2017	06/26/2017 07:20:23am The registered professional engineer whose seal appears on these drawings is the engineer responsible for the design and construction of the building and the metal building which is the product of Nucor Building Systems Corporation. The registered professional engineer who appears on these drawings is the engineer responsible for the design and construction of the building and the metal building which is the product of Nucor Building Systems Corporation. The registered professional engineer who appears on these drawings is the engineer responsible for the design and construction of the building and the metal building which is the product of Nucor Building Systems Corporation.		

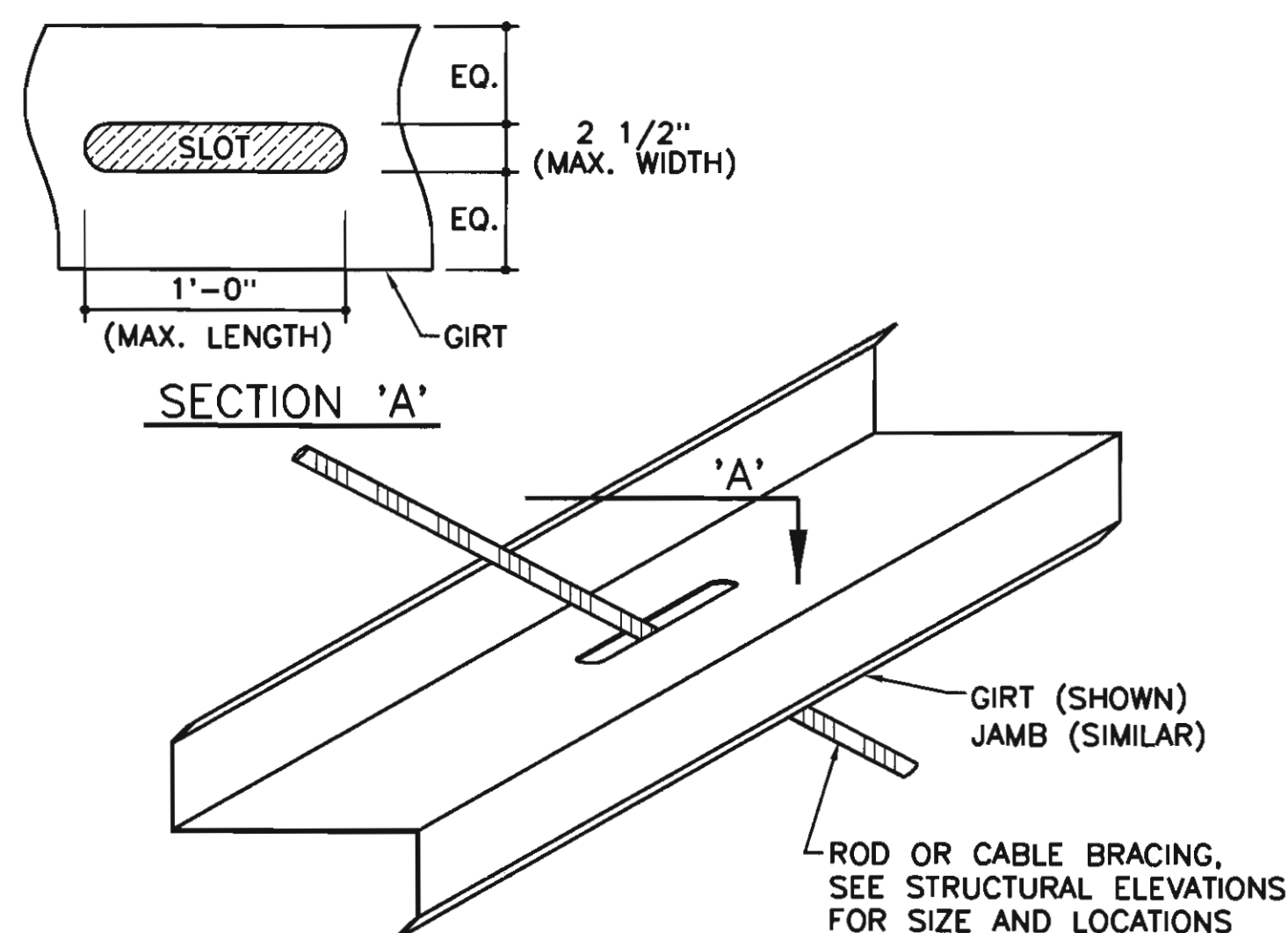
AD0140

ROD DIAMETER	MARK NUMBER	HILLSIDE WASHERS	FLAT WASHERS	A307/A325 NUTS	COUPLING NUTS
5/8" ø	RDB__	(2) H0930	(2) H0210	(2) H0310	H0810
3/4" ø	RDC__	(2) H0930	(2) H0220	(2) H0320	H0820
7/8" ø	RDD__	(2) H0930	(2) H0230	(2) H0325	H0830
1" ø	RDE__	(2) H0960	(2) H0240	(2) H0330	H0840
1 1/8" ø	RDF__	(2) H0960	(2) H0250	(2) H0450	H0850
1 1/4" ø	RDG__	(2) H0960	(2) H0260	(2) H0340	H0860



ROD BRACE DETAIL
(WEB TO WEB)

AF0010

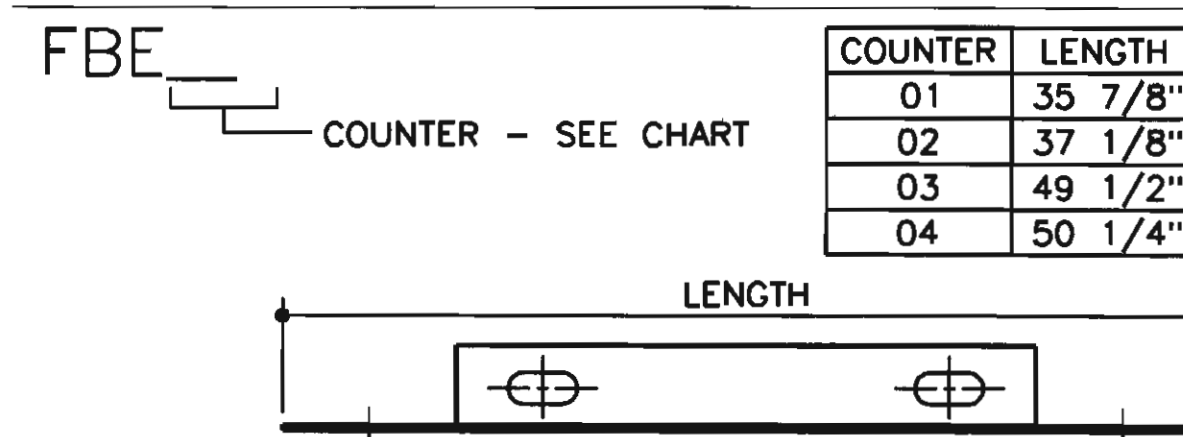
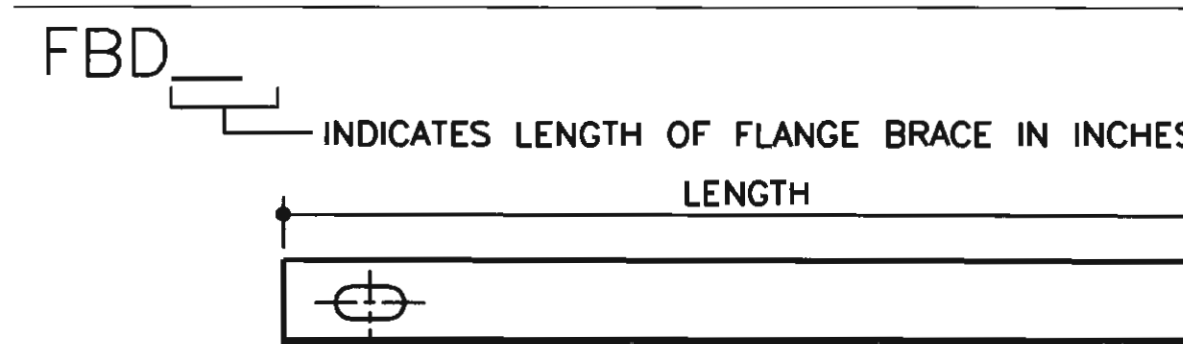
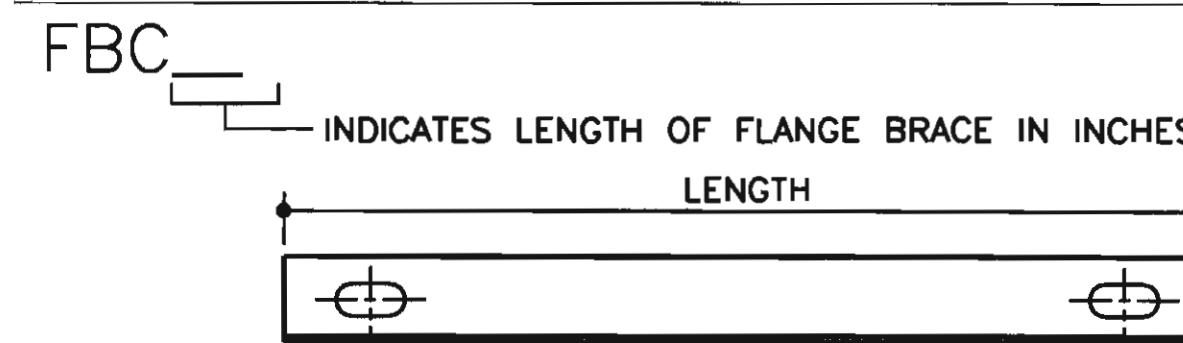


GUIDELINES FOR FIELD SLOTTING SECONDARY WEBS AT INSET OR FLUSH CONDITION

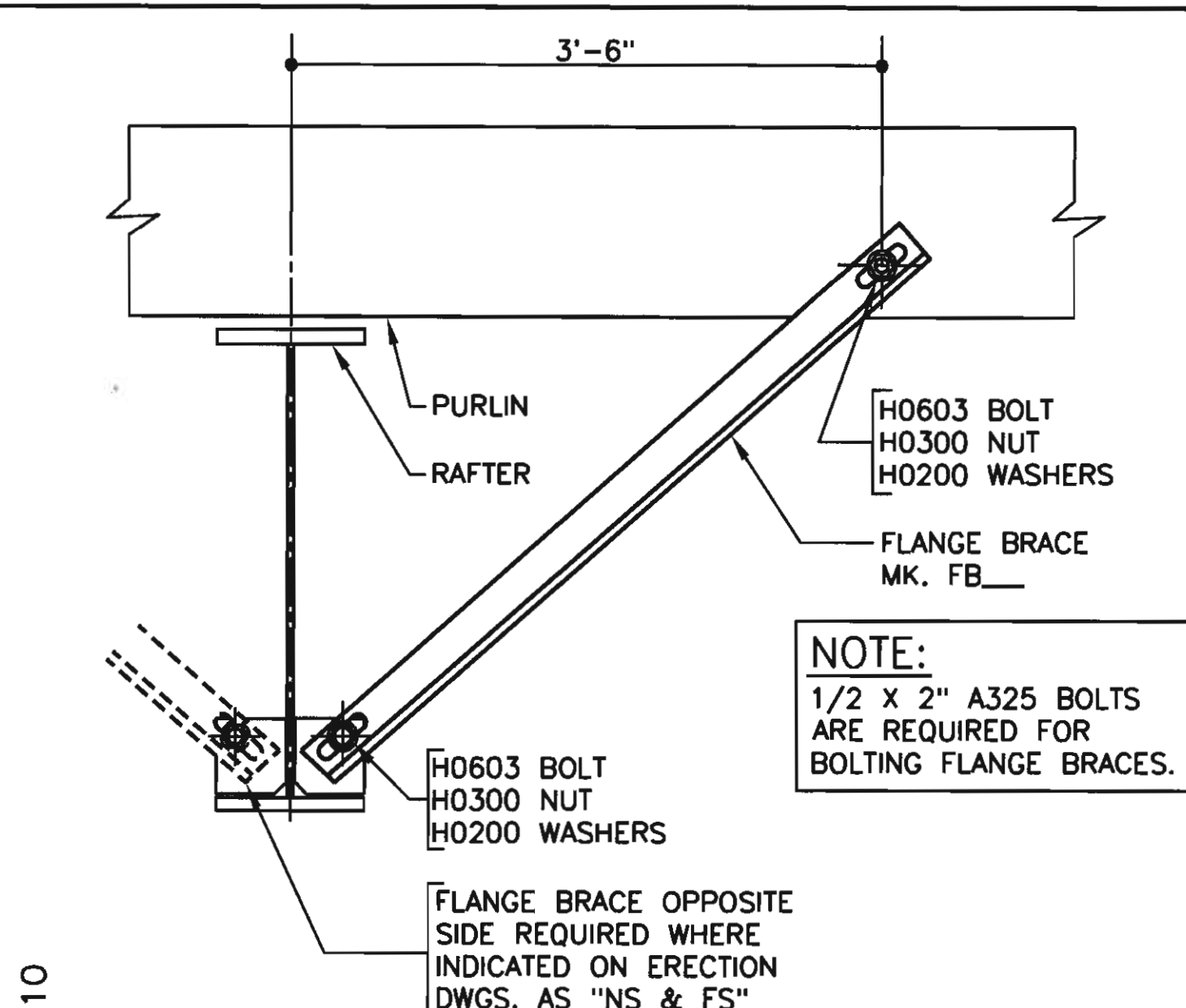
AF0080

TYPICAL FLANGE BRACE MARK NUMBERS
ACTUAL FLANGE BRACES DO NOT HAVE MARK NUMBERS ON THEM

ACTUAL FLANGE BRACES DO NOT HAVE MARK NUMBERS ON THEM

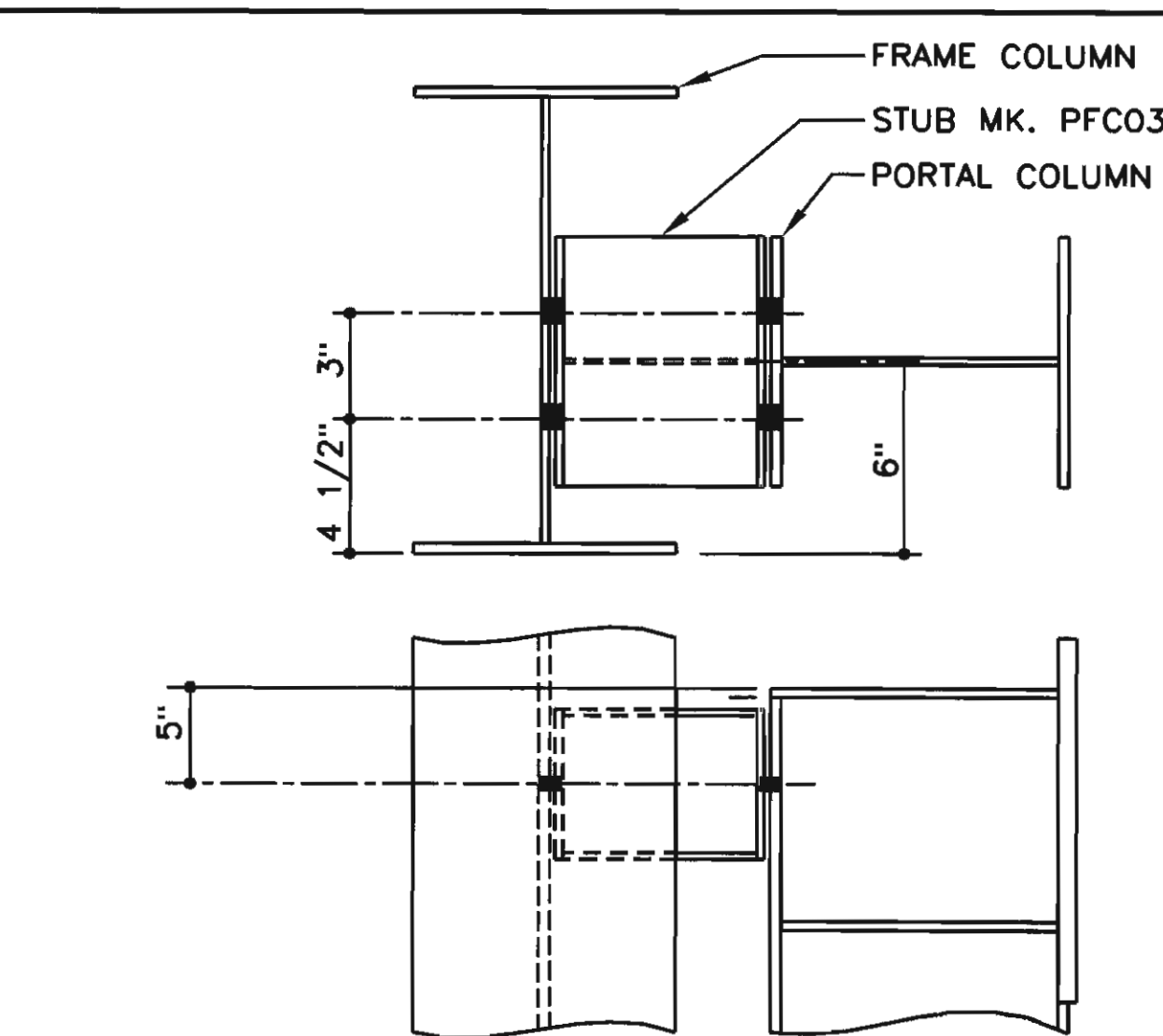


COUNTER	LENGTH
01	35 7/8"
02	37 1/8"
03	49 1/2"
04	50 1/4"



AG00 TYPICAL FLANGE BRACE AT PURLIN & RAFTER
SEE PLANS AND ELEVATIONS FOR FLANGE BRACE PART MARKS

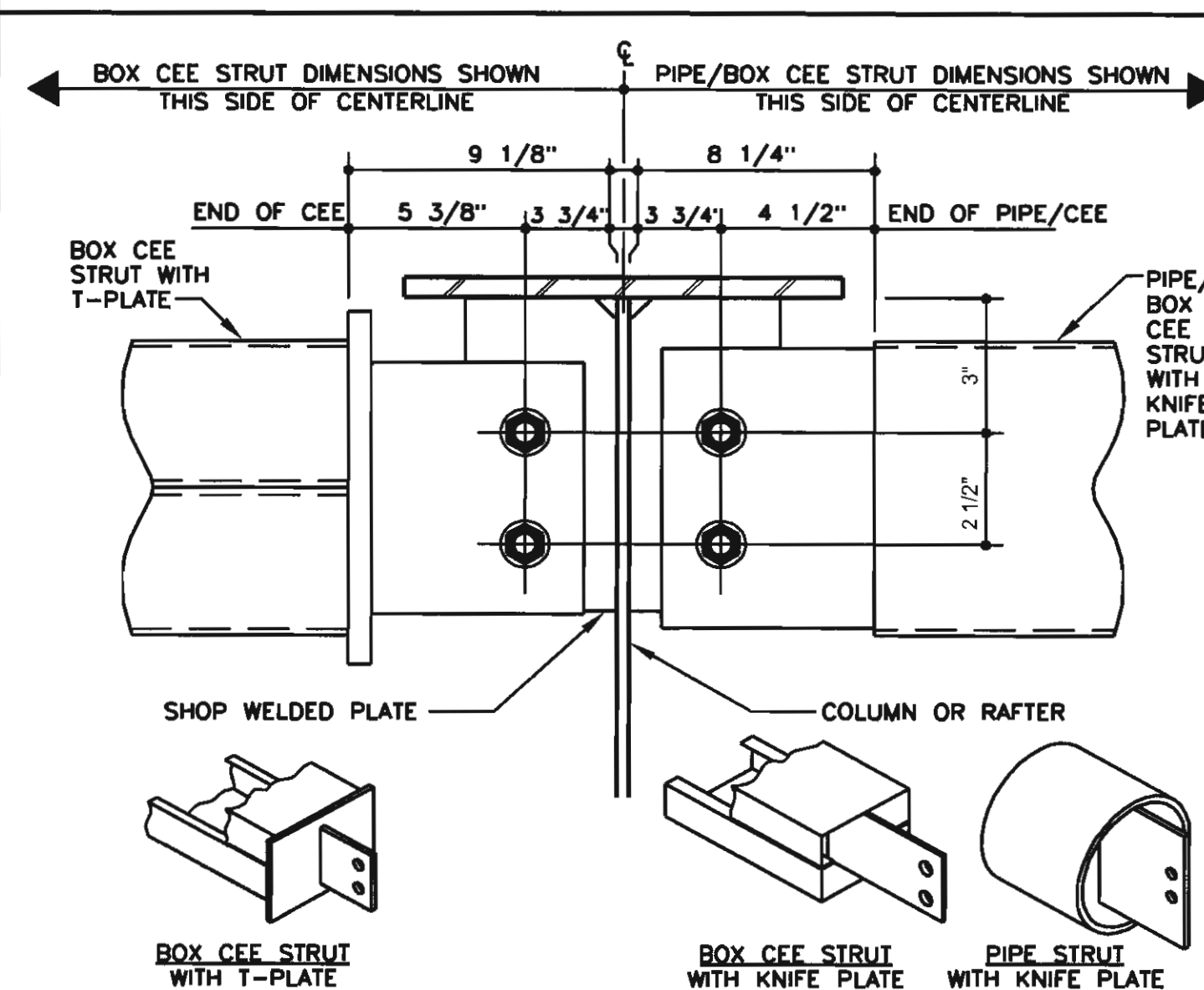
AG0010



FRAME TO PORTAL COLUMN ATTACHMENT

USE (4) 1/2" x 2" A325 BOLTS (MK. H0603)
AND NUTS (MK. H0300)
USE (4) 1/2" WASHERS (MK. H0200) AT SLOTS

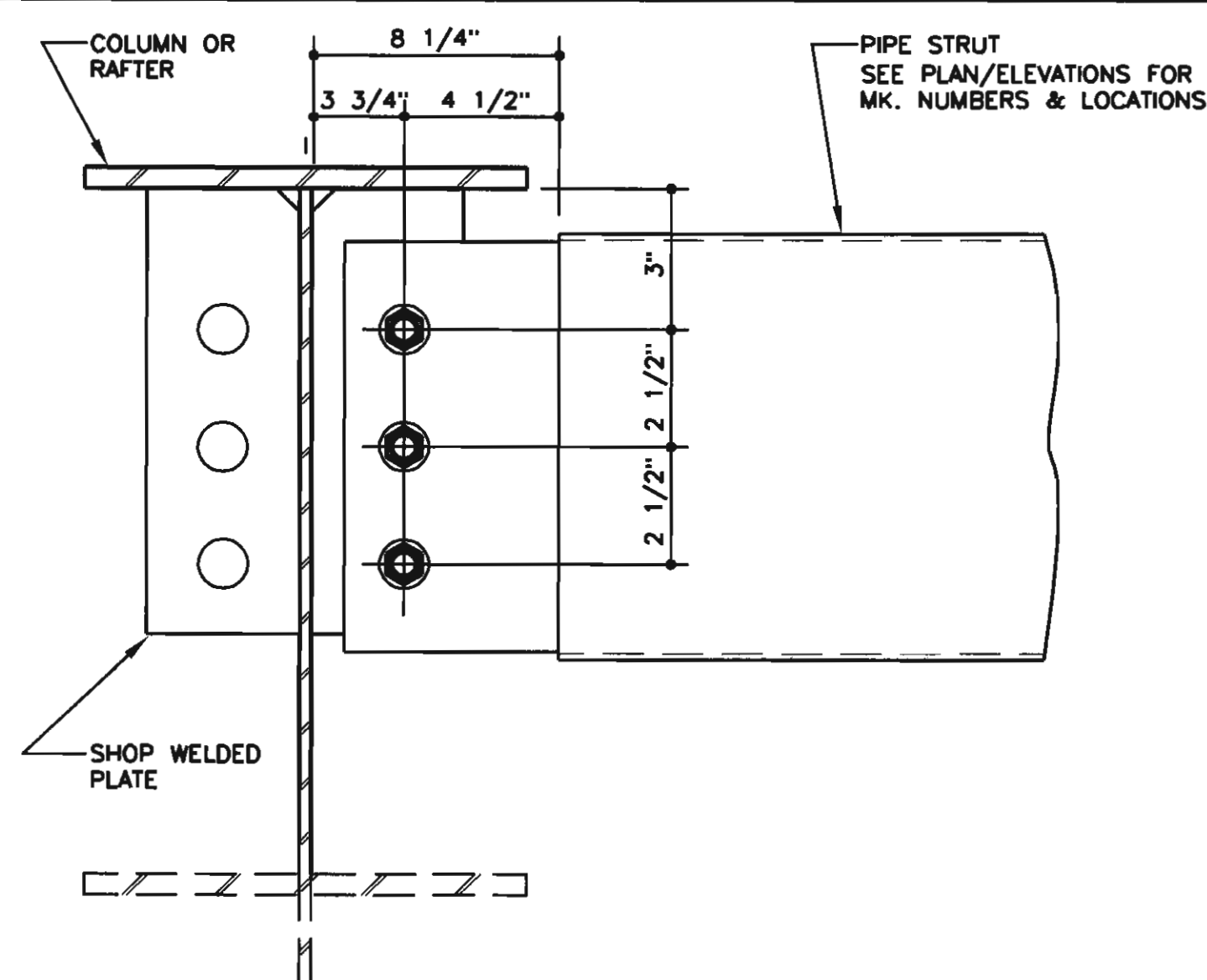
AJ0041



STRUT DETAIL

6" PIPE STRUT OR BOX CEE STRUT AT 8" (MIN.) COLUMN OR RAFTER
NOTE: USE (2) 1" X 3 1/4" A325 BOLTS H0640/NUTS H0330
SEE PLANS & ELEVATIONS FOR MARK NUMBERS AND LOCATIONS

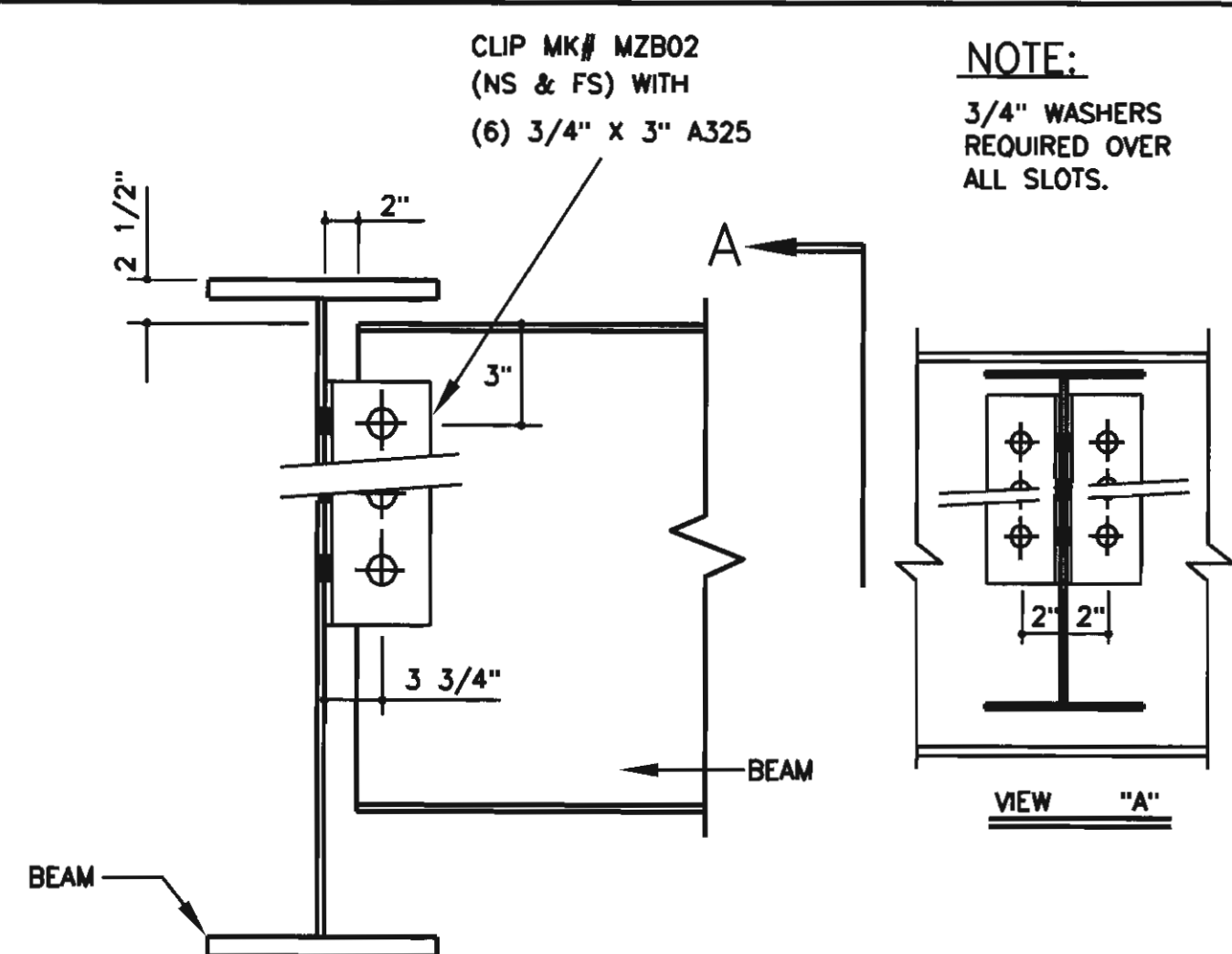
AK0160



PIPE STRUT DETAIL

8" PIPE STRUT AT 10" (MIN.) COLUMN OR RAFTER
NOTE: USE (3) 1" X 3 1/4" A325 BOLTS H0640/NUTS H0330

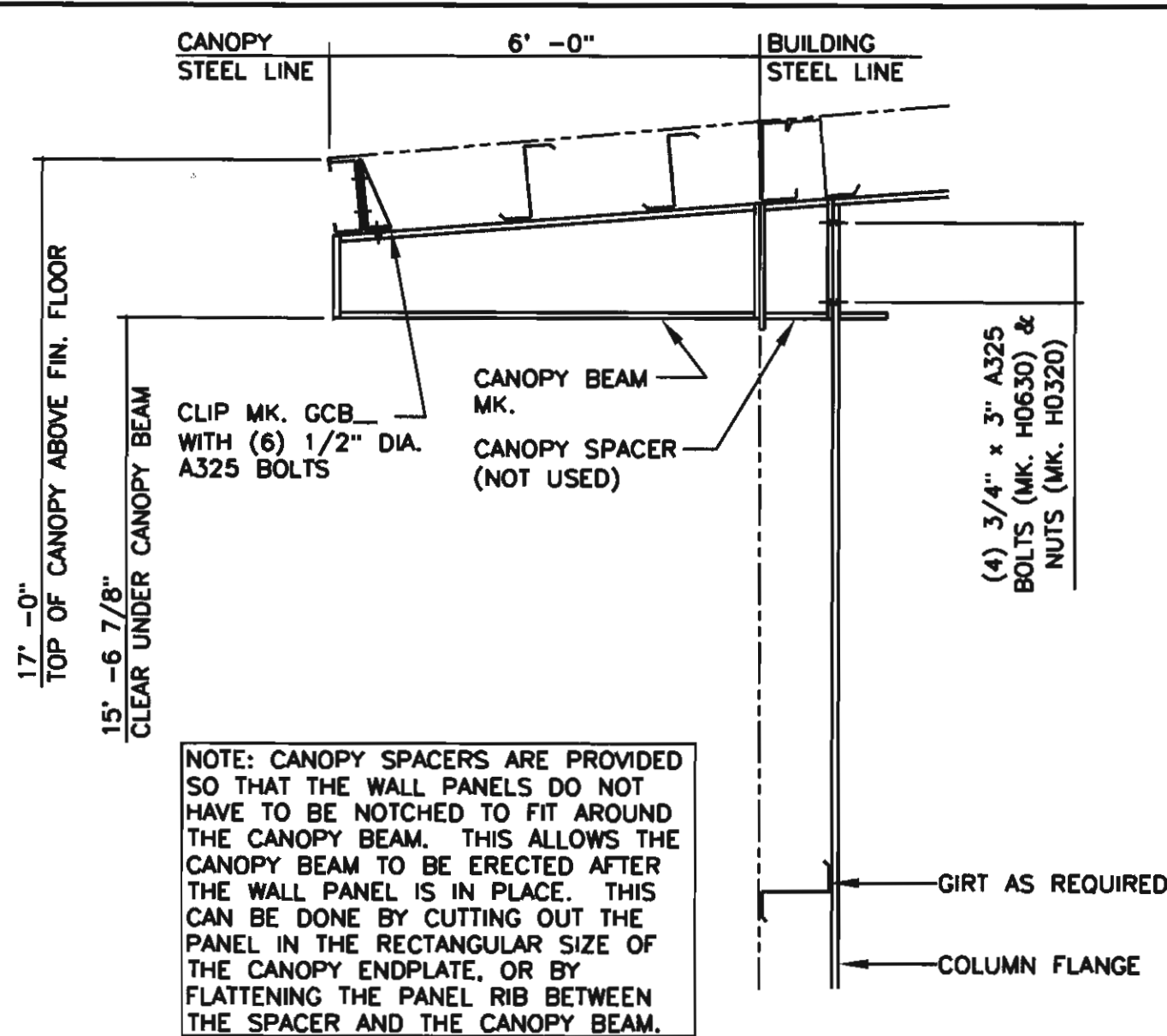
AK0170



BEAM CONNECTION DETAIL

MEZZ. BEAM TO WEB OF DEEPER BEAM AT DIFF. ELEVATION

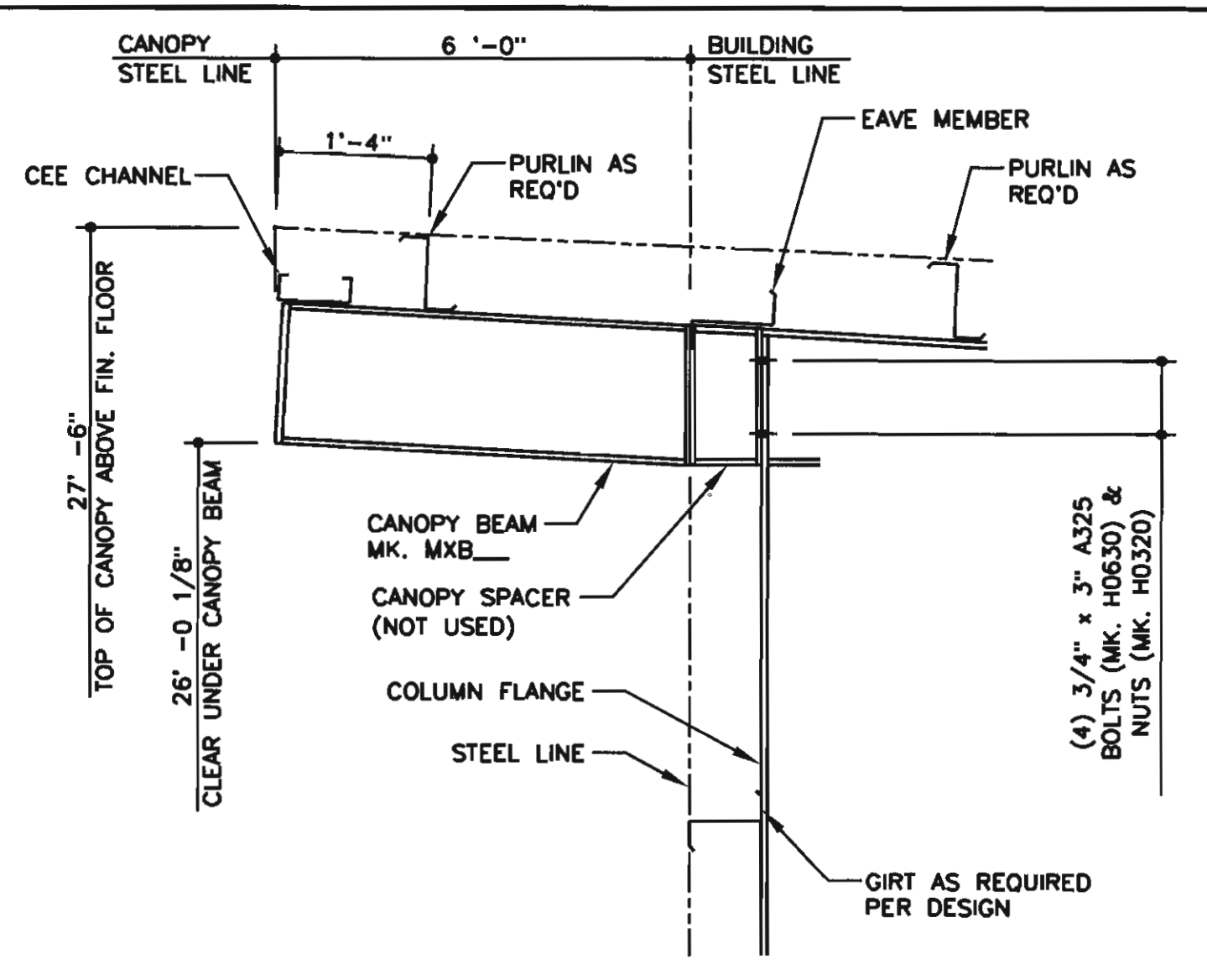
AP0170



CANOPY STRUCTURAL DETAIL

"LOW SIDE AT EAVE" WITH BYPASS GIRTS

AQ0040



CANOPY STRUCTURAL DETAIL

"HIGH SIDE AT EAVE" WITH BYPASS GIRTS

AQ0071

A schematic diagram of a purlin cross-section. It shows a vertical section with a horizontal lip at the top. Labels with leader lines point to the following parts:

- PURLIN STIFFENING LIP**: Points to the horizontal lip at the top.
- PURLIN FLANGE**: Points to the top horizontal surface of the main vertical section.
- PURLIN WEB**: Points to the vertical section of the purlin.

UNDER NO CIRCUMSTANCES CAN THE PURLIN STIFFENING LIP
BE FIELD MODIFIED FROM THE FACTORY SUPPLIED CONDITION.
ALSO DO NOT HANG ANYTHING FROM PURLIN STIFFENING LIP.

DRILL SUPPORT
THROUGH THE
BOTTOM FLANGE OF
THE PURLIN.

SUPPORT ANGLE OR SOME
OTHER TYPE OF BRACKET.
(NOT BY NBS) SUPPORT
THROUGH PURLIN WEB.

1" MAXIMUM FROM
CENTERLINE OF PURLIN WEB
TO CENTERLINE OF SUPPORT

1" MAXIMUM FROM
CENTERLINE OF PURLIN WEB
TO CENTERLINE OF SUPPORT

IF PURLIN FLANGE
SUPPORT CLAMPS
ARE USED.

A diagram showing a horizontal dimension line labeled "X" and a vertical dimension line labeled "1".

"X" = TOTAL PROJECTED
DISTANCE FROM THE
CENTERLINE OF THE PURLINE
WEB TO THE END OF THE
END OF STIFFENER LIP
(= 3 5/8" +/- 1/16")

NOTE:
THE CENTERLINE OF THE SUPPORT
MUST BE WITHIN 1" FROM
CENTERLINE OF THE PURLIN WEB.

CENTERLINE OF SUPPORT CENTERLINE OF PURLIN

B00010



LOW EAVE BY-PASS SW GIRT CONDITION
USE (4) 1/2"x 2" A325 BOLT H0603/NUT H0300 U.N.O.

BA0020



BYPASS SIDEWALL CONDITION
LOW EAVE BUILT-UP EW CONDITION
USE (2) 1/2" X 2" A325 BOLT H0603/NUT H0300 U.N.O.

BA0030



USE (4) 1/2" x 1 1/4" A307 BOLTS H0500/NUTS H0400 U.N.O.
REFERENCE ERECTOR NOTE FOR TYP. WASHER REQUIREMENTS

BB0050



LEAN-TO WITH OPEN COMMON WALL
HIGH EAVE CONNECTION AT INTERIOR FRAMES
USE (4) 1/2" x 2" A325 BOLTS H0603/NUTS H0300 U.N.O.
SEE ERECTOR NOTE FOR TYP. WASHER REQUIREMENTS

BC0051



USE (8) 1/2" x 1 1/4" A307 BOLTS H0500/NUTS H0400 U.N.O.

Diagram illustrating the vertical structure and components of the system, labeled "SECTION 'A-A'". It shows a vertical assembly with a horizontal line at the top labeled "UPSLOPE U.N.O." and a dashed line indicating a vertical dimension.

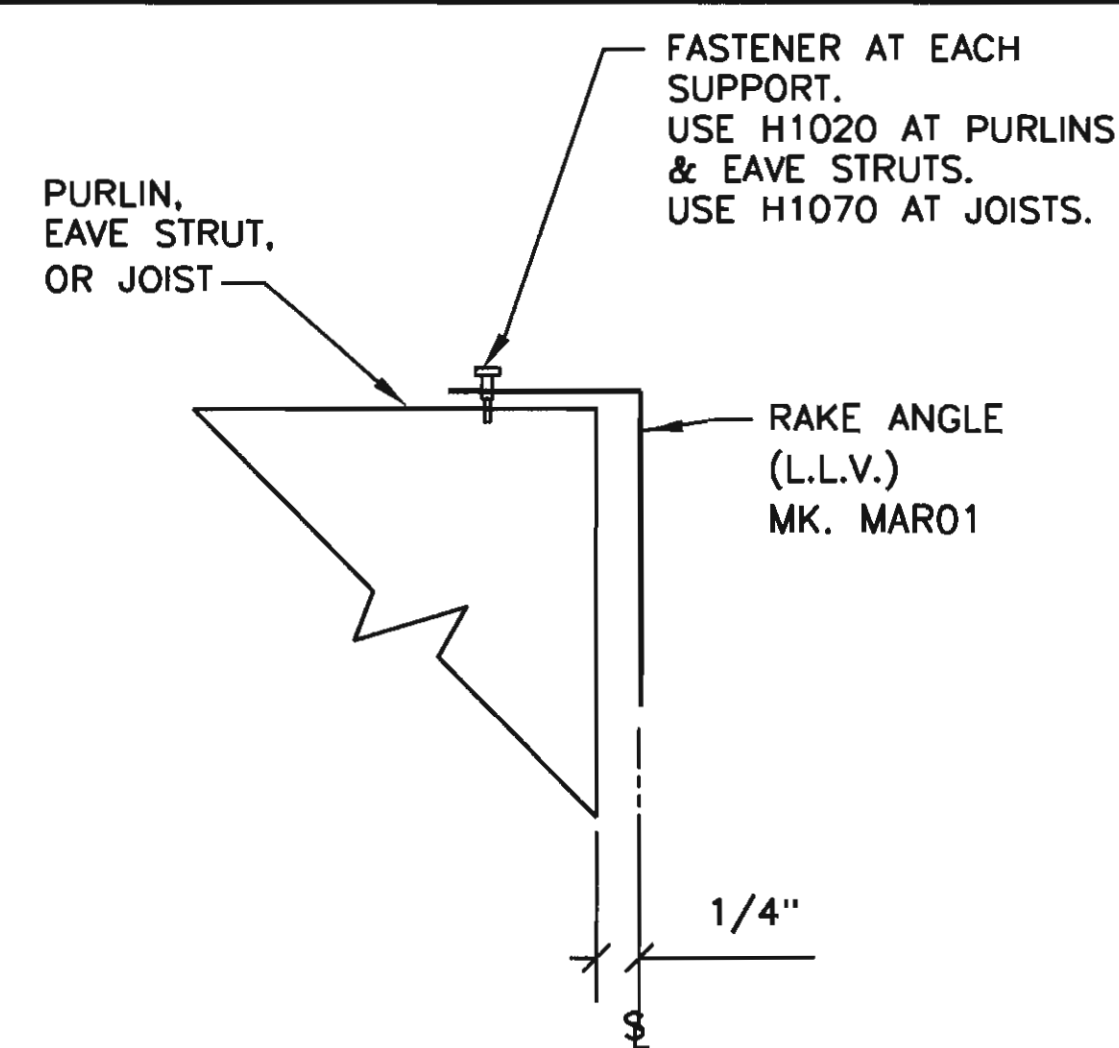
NO WASHERS REQUIRED AT
THESE (8) BOLT LOCATIONS

SECTION "B"



LEAN-TO WITH OPEN COMMON WALL
HIGH EAVE CONNECTION AT ENDWALL
USE (4) 1/2" X 2" A325 BOLTS H0603/NUTS H0300 U.N.O.
SEE ERECTOR NOTE FOR TYP. WASHER REQUIREMENTS

BC0083

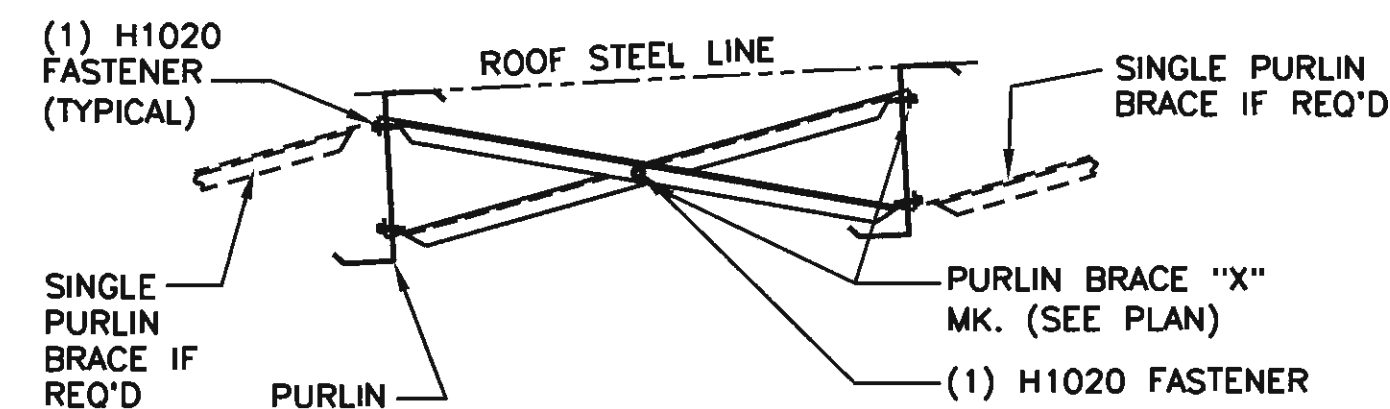


RAKE ANGLE ATTACHMENT

AT ENDWALL STEEL LINE

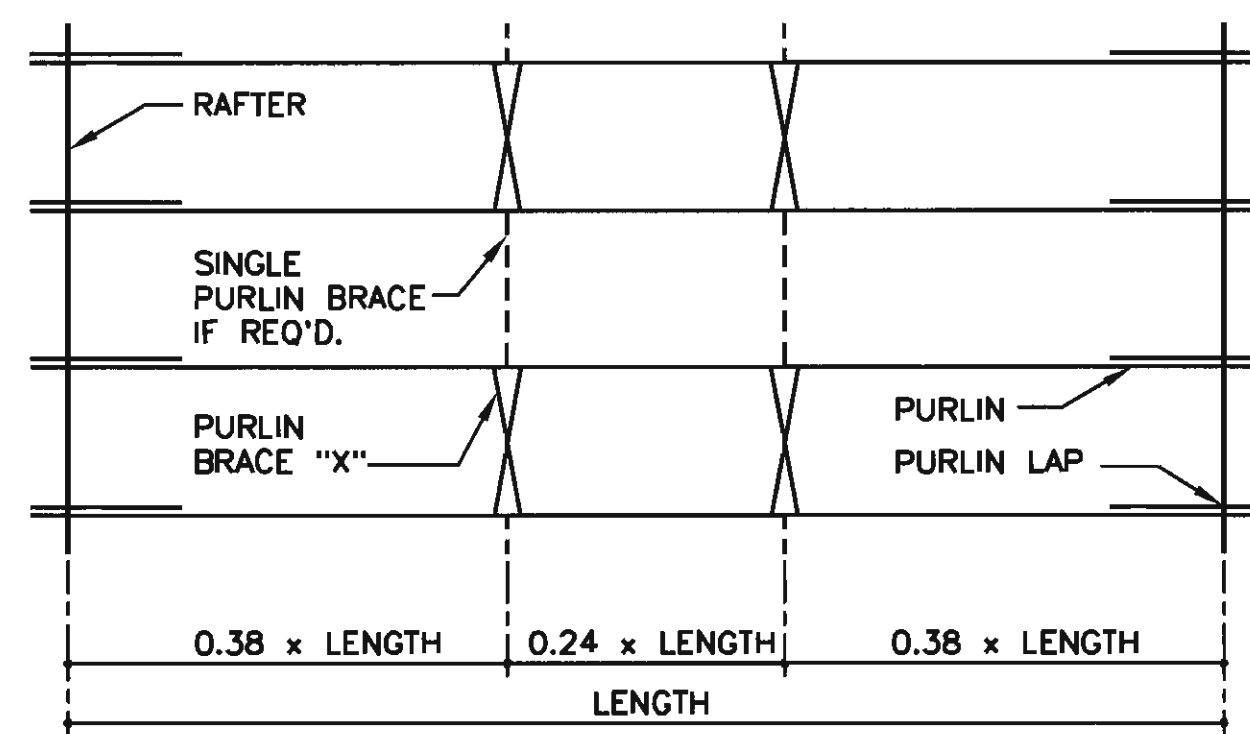
BD0120

	PROJECT NAME Winterhaven Public Safety Facility Winterhaven, Imperial, CA		CUSTOMER NAME MPA Architects San Diego, CA		JOB NUMBER 1115S0716A	SHEET TITLE Roof Framing Details
	NUCOR BUILDING SYSTEMS GROUP 1050 North Watery Lane Brigham City, UT 84302 Phone: (435) 919-3100 Fax: (435) 919-3101					
	ISSUE For Build Dept. Rev Rev 1 For Build Dep Rev 2 For Build Dep		DWN SEM TKL CAY	NDD KMB SEM NVA	ENG TBC RRS CKC	DATE 7/15/2016 11/22/2016 6/26/2017
SHEET D4 OF 7						



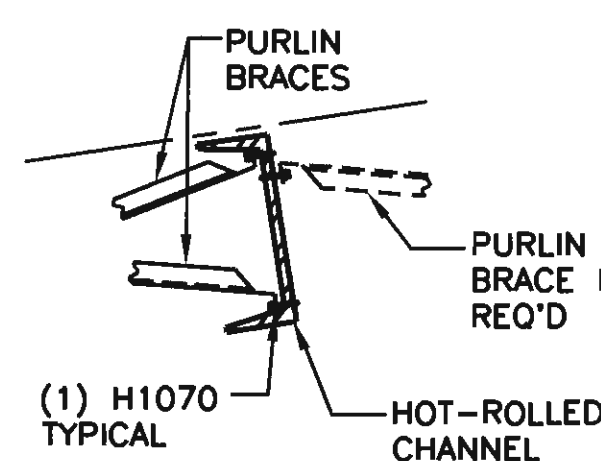
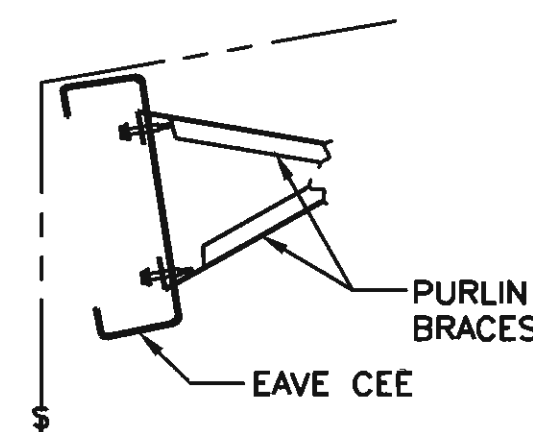
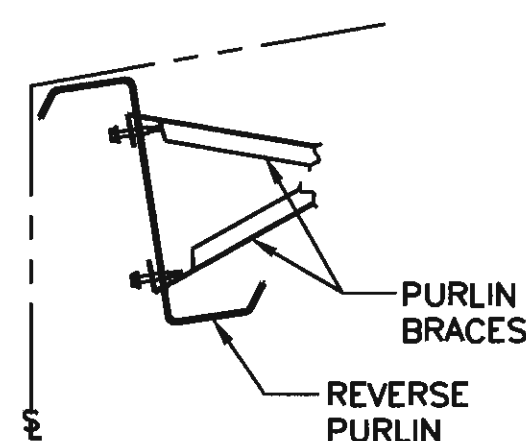
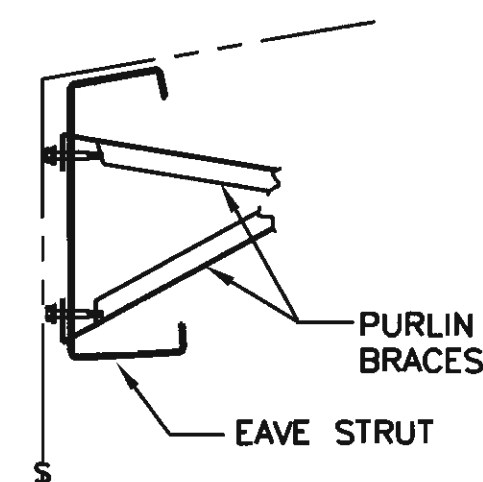
1) THERE ARE TYPICALLY (2) ROWS OF PURLIN BRACING REQUIRED REGARDLESS OF THE BAY LENGTH U.N.O.

2) THE PURLIN BRACING IS TYPICALLY SPACED AS SHOWN IN THE DETAIL BELOW U.N.O.

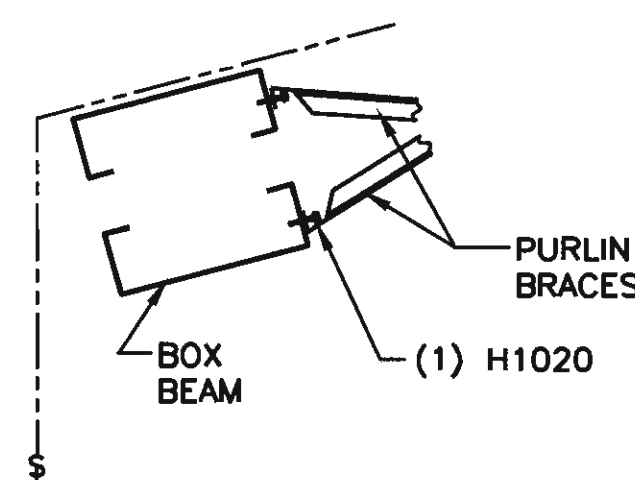
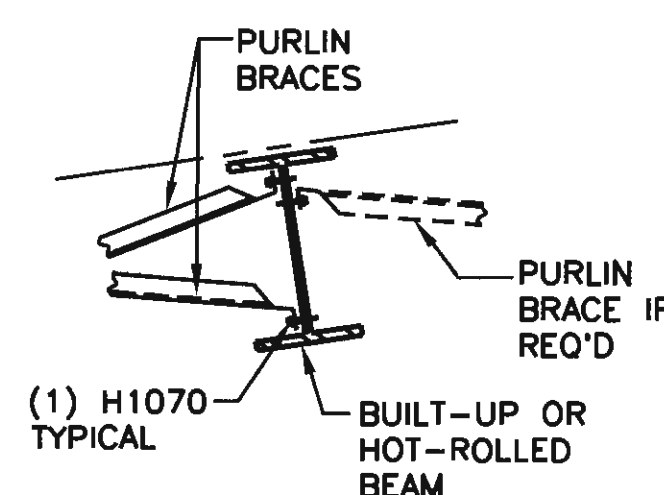


SEE ROOF FRAMING PLAN(S) FOR PURLIN BRACING
MARK NUMBERS, QUANTITIES AND LOCATIONS

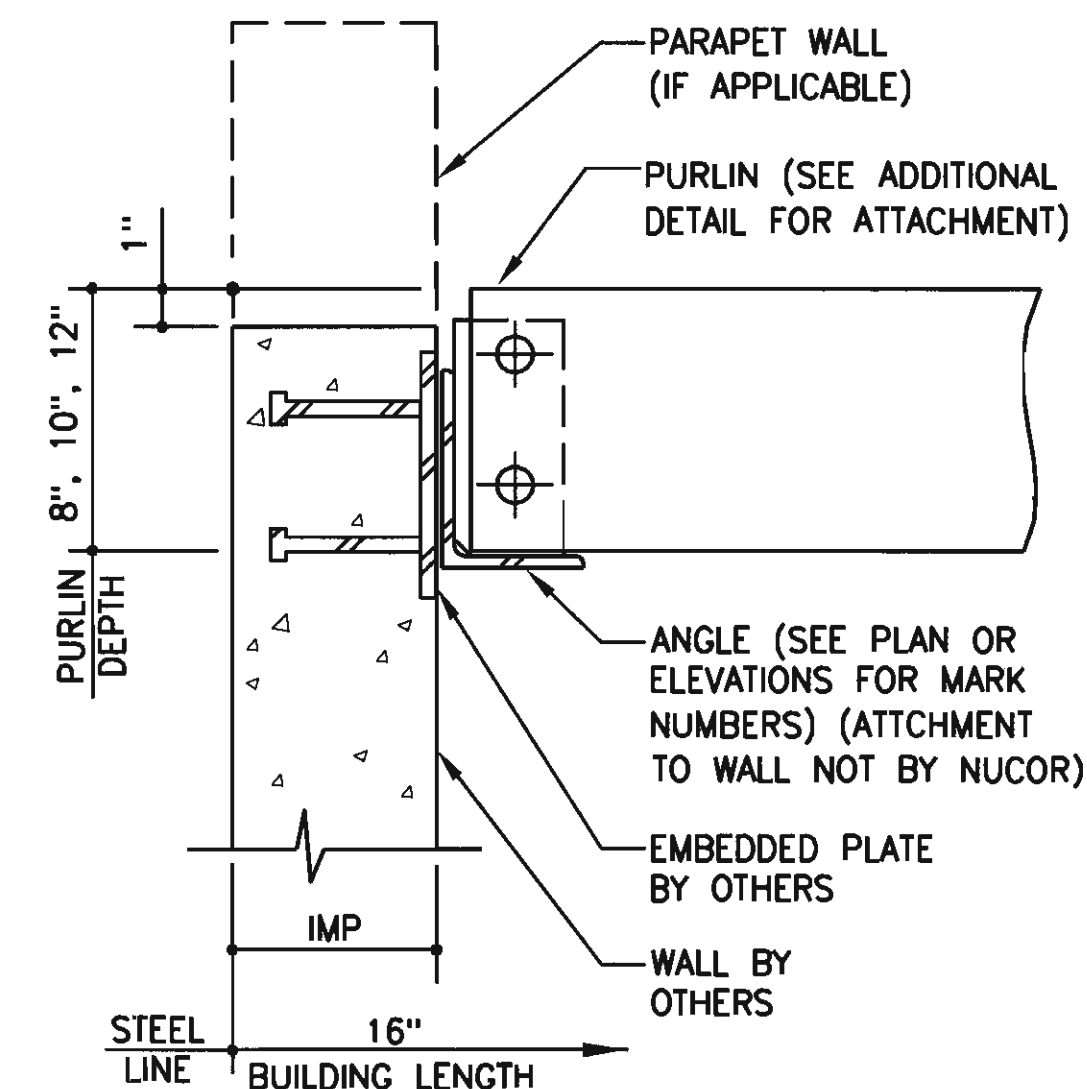
- 1) FOR SINGLE PURLIN BRACE, INSERT THE ANGLE INTO THE FACTORY PUNCHED SLOTS. BEND THE TABS AS SHOWN AND ATTACH WITH (1) H1020 FASTENER PER END.
- 2) FOR PURLIN BRACE "X", INSERT THE ANGLES "BACK-TO-BACK" INTO THE FACTORY PUNCHED SLOTS. BEND THE TABS AS SHOWN AND ATTACH WITH (1) H1020 FASTENER PER END.
- 3) CONNECT THE PURLIN BRACE "X" AT THE INTERSECTION WITH (1) H1020 FASTENER.
- 4) SEE THE DETAILS AT RIGHT FOR ADDITIONAL INFORMATION WHEN ATTACHING TO ALTERNATE FRAMING MEMBERS.



NOTE: THE CHANNEL MAY
BE TOED UP OR DOWN.



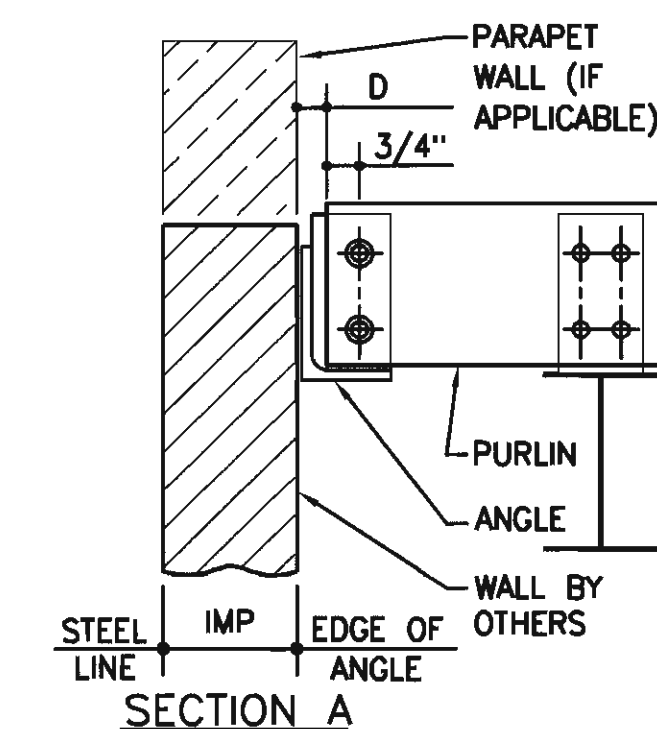
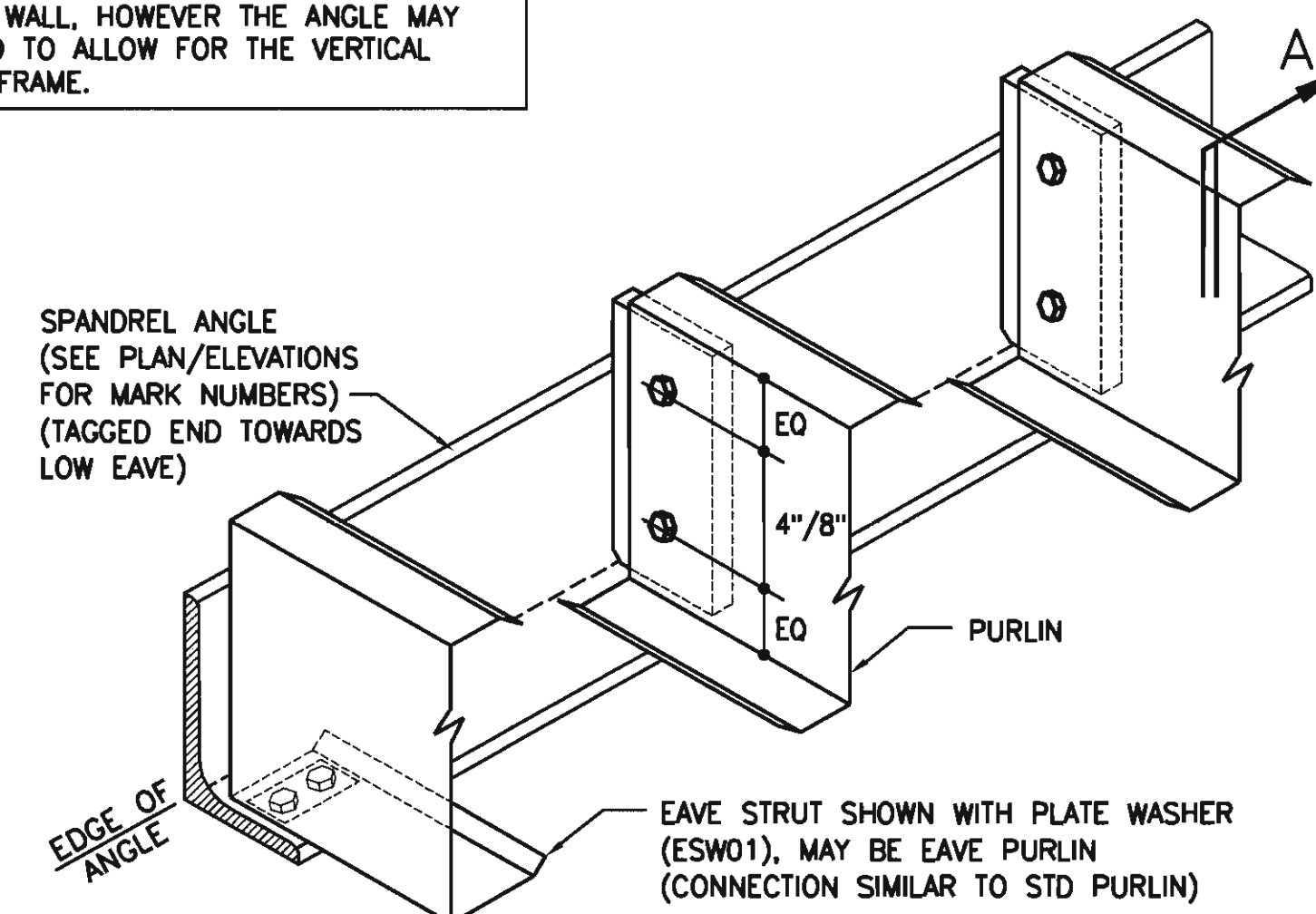
BE0001



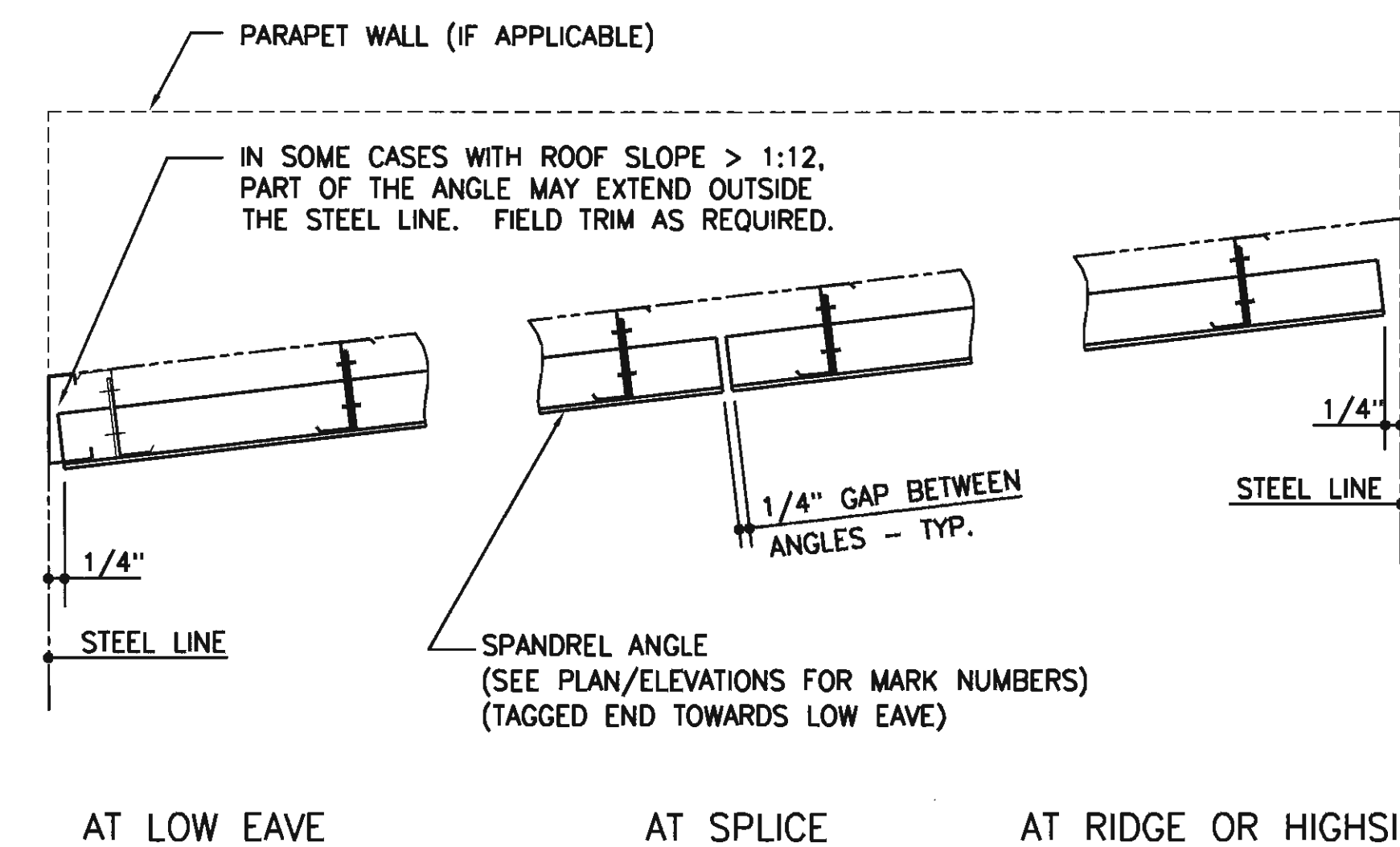
ENDWALL RAKE ANGLE WITH PURLINS

BO0300

SUPPLY AND DESIGN OF CONNECTION OF ANGLE TO WALL BY OTHERS NOT BY NUCOR. ATTACHMENT OF ANGLE SHOULD BE NO MORE THAN 6" AWAY FROM EACH PURLIN LOCATION. NUCOR WILL NOT PREP THE ANGLE FOR THIS ATTACHMENT TO THE WALL, HOWEVER THE ANGLE MAY NEED TO BE SLOTTED TO ALLOW FOR THE VERTICAL DEFLECTION OF THE FRAME.



DOWNWARD: MAXIMUM
UNDER DESIGN LIVE LOAD: 3"
UPWARD: MAXIMUM
UNDER DESIGN UPLIFT: 3"
DEFLECTION OF FRAME
UNDER FULL DEAD LOAD: 3"



USE (2) 1/2" x 2" A325 BOLT H0603/NUT H0300 AT EACH PURLIN / EAVE STRUT LOCATION
REFERENCE ERECTOR NOTE FOR TYPICAL WASHER REQUIREMENTS

BO0400

ISSUE	OWN	CHK	ENG	PIE	DATE
For Build Dept. Rev	SEM	NDI	KMB	TKC	7/15/2016
Rev 1 For Build Dep	TKL	SEM	KMB	RRS	11/22/2016
Rev 2 For Build Dep	CAY	NVA	KMB	CKC	6/26/2017

NUCOR
BUILDING SYSTEMS GROUP

1050 North Warranty Lane
Brigham City, UT 84302
Phone: (435) 919-3100
Fax: (435) 919-3101

MEMBER
AMERICAN
STEEL

AC
ASSOCIATE

ACAZ

PROJECT NAME
Winterhaven Public Safety Facility
Winterhaven, Imperial, CA

CUSTOMER NAME
MPA Architects
San Diego, CA

JOB NUMBER	SHEET TITLE
------------	-------------

Roof Framing Details

06/26/2017 07:20:35am

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SHEET

SEE GIRT DETAILS FOR GIRT CONNECTIONS
(COLUMNS NOT SHOWN)

NOTE: USE (4) 1/2" x 1 1/4" A307 BOLTS H0500/NUTS H0400
REFERENCE STANDARD WASHER DETAIL FOR TYPICAL WASHER
REQUIREMENTS

CA0010

NOTE: USE (4) 1/2" x 1 1/4" A307 BOLTS H0500/NUTS H0400
REFERENCE STANDARD WASHER DETAIL FOR TYPICAL WASHER
REQUIREMENTS

CA1010

•• THE THIN HEAD 1/2" A307 BOLT MUST BE INSTALLED INTO THE FIRST GIRT AND CLIP OF A LAPPED CONDITION. THE BOLT/NUT ASSEMBLY MUST BE WRENCH TIGHT PRIOR TO THE SECOND LAPPED GIRT BEING INSTALLED.

BYPASS GIRT AT ENDWALL PURLIN
USE (8) 1/2" x 1 1/4" A307 BOLTS H0500/NUTS H0400
REFERENCE ERECTOR NOTE FOR TYPICAL WASHER REQUIREMENTS

CC0075

NOTE: USE (7) 1/2" x 1 1/4" A307 BOLTS H0500/NUTS H0400
REFERENCE ERECTOR NOTE FOR TYPICAL WASHER
REQUIREMENTS

CC1010

NOTE: USE (2) 1/2" x 1 1/4" A307 BOLTS H0500/NUTS H0400
REFERENCE STANDARD WASHER DETAIL FOR TYPICAL WASHER
REQUIREMENTS

CF0250

NOTE: USE (8) 1/2" x 1 1/4" A307 BOLTS H0500/NUTS H0400
REFERENCE STANDARD WASHER DETAIL FOR TYPICAL WASHER
REQUIREMENTS

CF1010

LEFT HAND DETAIL SHOWN, RIGHT HAND OPPOSITE
NOTE: USE (4) 1/2" x 1 1/4" A307 BOLTS H0500/NUTS H0400
REFERENCE STANDARD WASHER DETAIL FOR TYPICAL WASHER
REQUIREMENTS

CF1200

COLD-FORMED JAMB TO ZEE GIRT WITH INTERMEDIATE GIRT
REFERENCE STANDARD WASHER DETAIL FOR TYPICAL WASHER
REQUIREMENTS

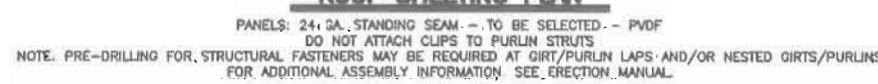
CG0018

CG002

NOTE: USE (2) 1/2" x 1 1/4" A307 BOLTS H0500/NUTS H0400
REFERENCE STANDARD WASHER DETAIL FOR TYPICAL WASHER
REQUIREMENTS

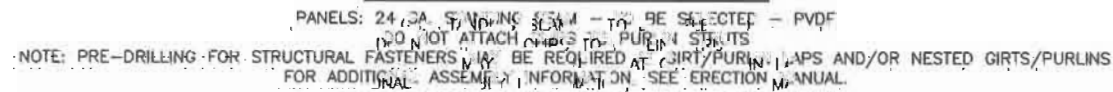
CG003

D6 OF 7



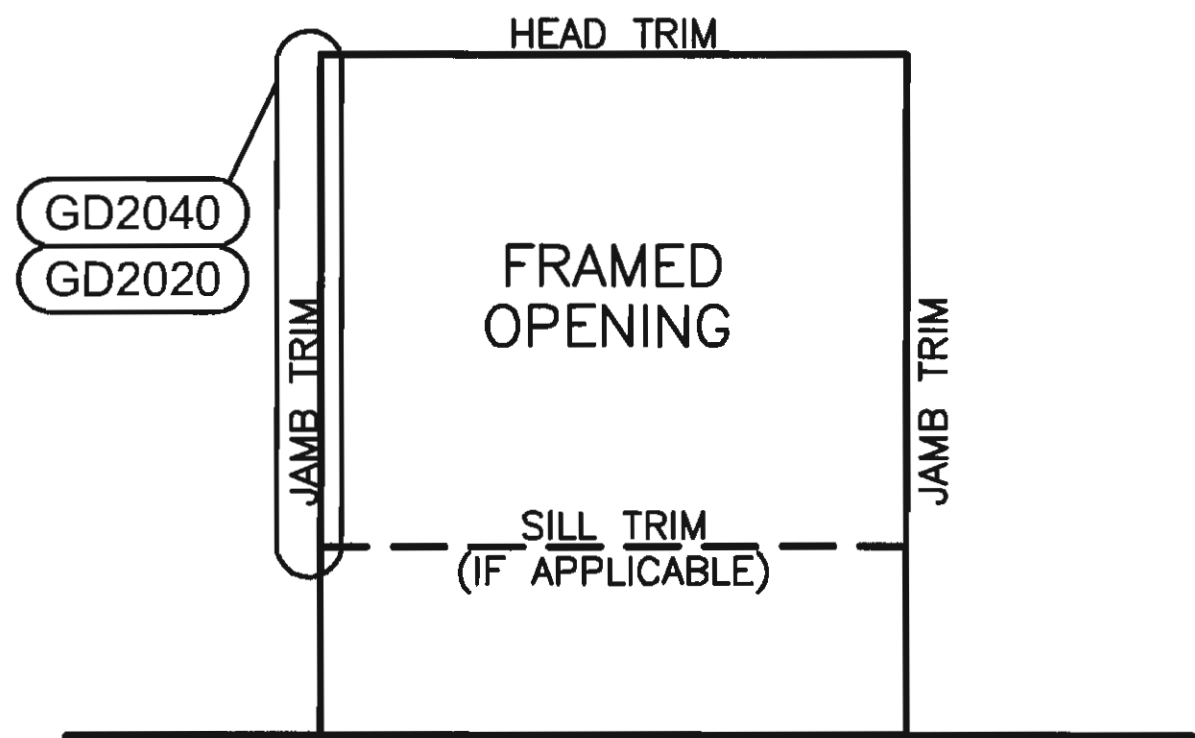
NOTE: PRE-DRILLING FOR STRUCTURAL FASTENERS MAY BE REQUIRED AT GIRT/PURLIN LAPS AND/OR NESTED GIRTS/PURLINS. FOR ADDITIONAL ASSEMBLY INFORMATION, SEE DIRECTION MANUAL.

BUILD. I.D.	MAXIMUM SPACING	QUANTITY PER LOCATION	LOCATIONS	GRID LINE
1	50' - 0"	1.5	3	A
J	50' - 0"	1.5	3	J
A	A	A	A	A
A	A	A	A	A
A	A	A	A	A



NOTE: PRE-DRILLING FOR STRUCTURAL FASTENERS WILL BE REQUIRED AT JOINTS/PURLINS, LAPs AND/OR NESTED GIRTS/PURLINS FOR ADDITIONAL ASSEMBLY INFORMATION SEE ERECTION MANUAL.

BUILD. I.D.	MAXIMUM SPACING	QUANTITY PER LOCATION	LOCATIONS	GRID LINE
1	50' - 0"	2	3	A
A	A	A	A	A
A	A	A	A	A
A	A	A	A	A
A	A	A	A	A

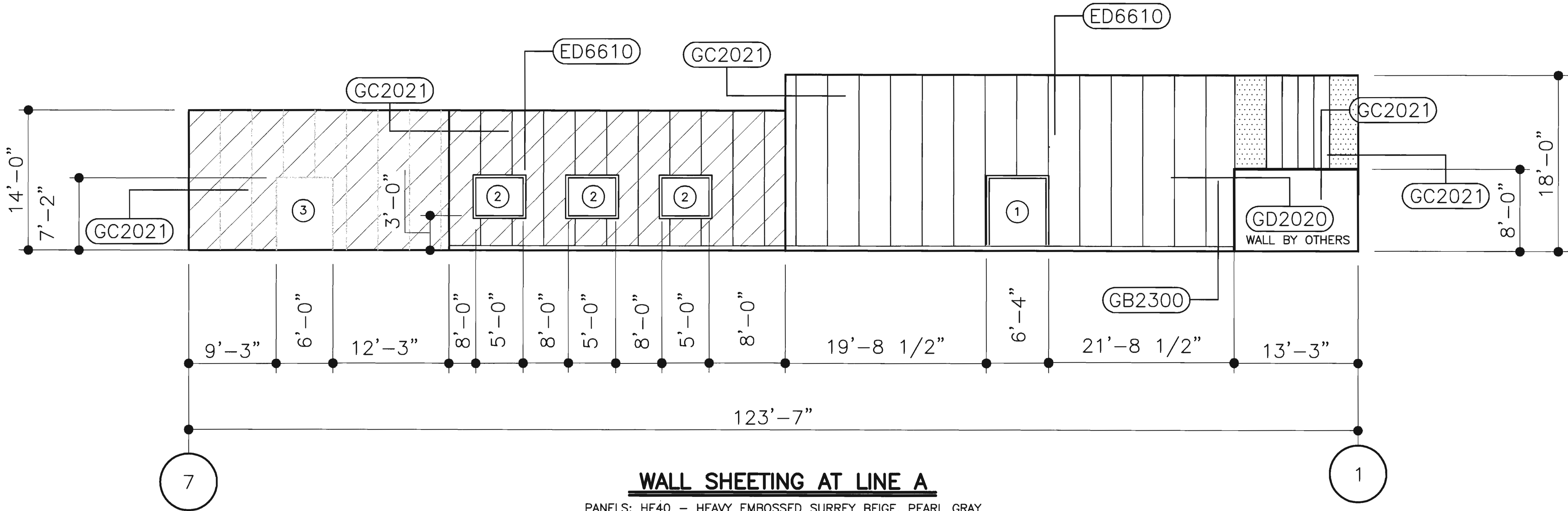


I.D. NUMBER	QTY	SIZE		TRIM REQUIREMENTS		
		WIDTH	HEIGHT	JAMB TRIM	HEAD TRIM	SILL TRIM
1	2	6'-4"	7'-2"	JTL	JTH	N/A
2	3	5'-0"	4'-0"	JTL	JTH	JTL
3	1	6'-0"	7'-2"	JTL	JTH	JTL

ERECTOR NOTES:

I.D. NUMBER:
AN I.D. NUMBER INDICATES A FACTORY LOCATED OPENING. SEE WALL ELEVATIONS.
THE WORD "FIELD" INDICATES A FIELD LOCATED OPENING.

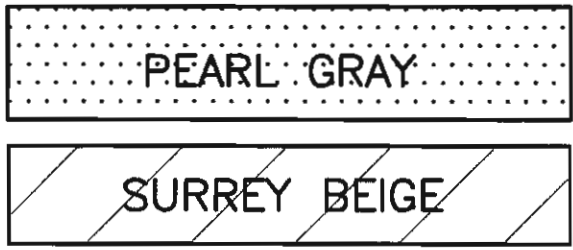
FIELD CUT PANELS AROUND OPENINGS AS REQUIRED.
SEE DETAIL GD2070 IN WALL SHEETING DETAILS FOR WINDOW SILL.
SEE DETAIL GD0005 FOR FRAMED OPENING COVER TRIM INSTALLATION.



WALL SHEETING AT LINE A

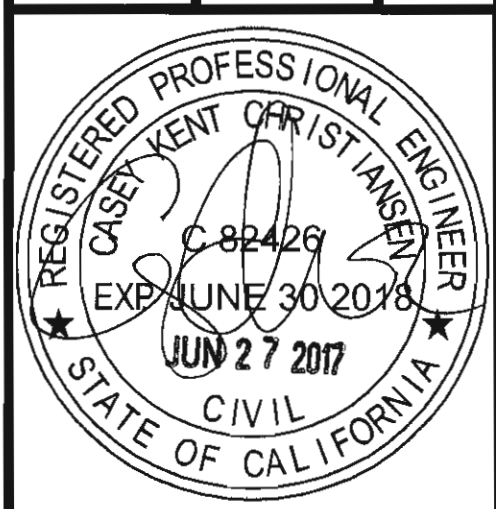
PANELS: HE40 - HEAVY EMBOSSED SURREY BEIGE, PEARL GRAY
PANELS: DM40 - DOUBLE MESA COLONIAL RED

NOTE: PRE-DRILLING FOR STRUCTURAL FASTENERS MAY BE REQUIRED AT GIRT/PURLIN LAPS AND/OR NESTED GIRTS/PURLINS
FOR ADDITIONAL ASSEMBLY INFORMATION, SEE ERECTION MANUAL.



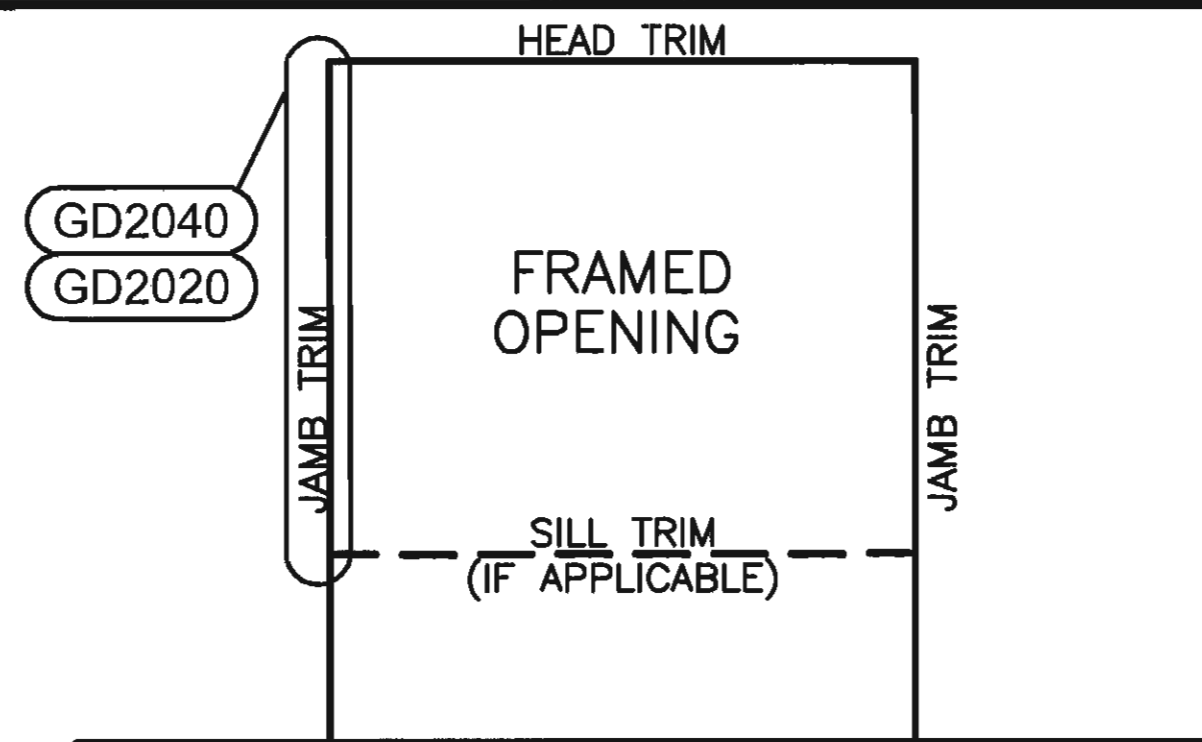
NUCOR
BUILDING SYSTEMS GROUP
1050 North Watery Lane
Brigham City, UT 84302
Phone: (435) 919-3100
Fax: (435) 919-3101

PROJECT NAME
Winterhaven Public Safety Facility
Winterhaven, CA
CUSTOMER NAME
MPA Architects
San Diego, CA
JOB NUMBER
U15S0716A



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SHEET
IMP1 of 4



ERECTOR NOTES:

I.D. NUMBER:

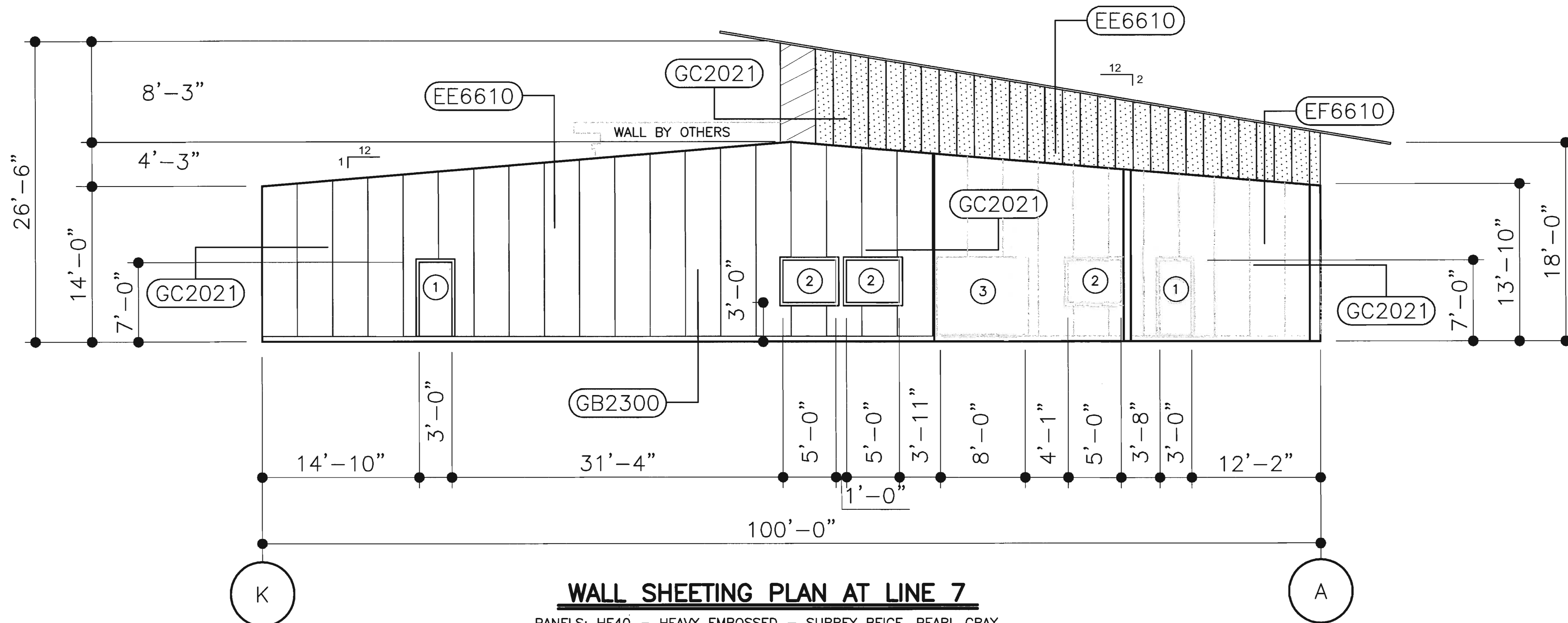
AN I.D. NUMBER INDICATES A FACTORY LOCATED OPENING. SEE WALL ELEVATIONS.
THE WORD "FIELD" INDICATES A FIELD LOCATED OPENING.

FIELD CUT PANELS AROUND OPENINGS AS REQUIRED.

SEE DETAIL GD2070 IN WALL SHEETING DETAILS FOR WINDOW TRIM ASSEMBLY.

SEE DETAIL GD0005 FOR FRAMED OPENING COVER TRIM INSTALLATION.

I.D. NUMBER	QTY	SIZE		TRIM REQUIREMENTS		
		WIDTH	HEIGHT	JAMB TRIM	HEAD TRIM	SILL TRIM
1	2	3'-0"	7'-0"	JTL	JTH	N/A
2	3	5'-0"	4'-0"	JTL	JTH	JTL
1	1	8'-0"	7'-0"	JTL	JTH	N/A



WALL SHEETING PLAN AT LINE 7

PANELS: HE40 - HEAVY EMBOSSED - SURREY BEIGE, PEARL GRAY
PANELS : DM40 - DOUBLE MESA - COLONIAL RED

NOTE: PRE-DRILLING FOR STRUCTURAL FASTENERS MAY BE REQUIRED AT GIRT/PURLIN LAPS AND/OR NESTED GIRTS/PURLINS
FOR ADDITIONAL ASSEMBLY INFORMATION, SEE ERECTION MANUAL.

COLONIAL RED

PEARL GRAY

DATE	DATE	PE	ENG	CHK	DWN	SHEET
7/15/16	7/15/16	TKC	KMB	NDD	SEM	For Build Dept. Rev
11/22/16	11/22/16	RPS	KMB	SEM	TKL	Rev 1 For Build Dept. Rev
6/26/17	6/26/17	CXC	KMB	NVA	CAY	Rev 2 For Build Dept. Rev



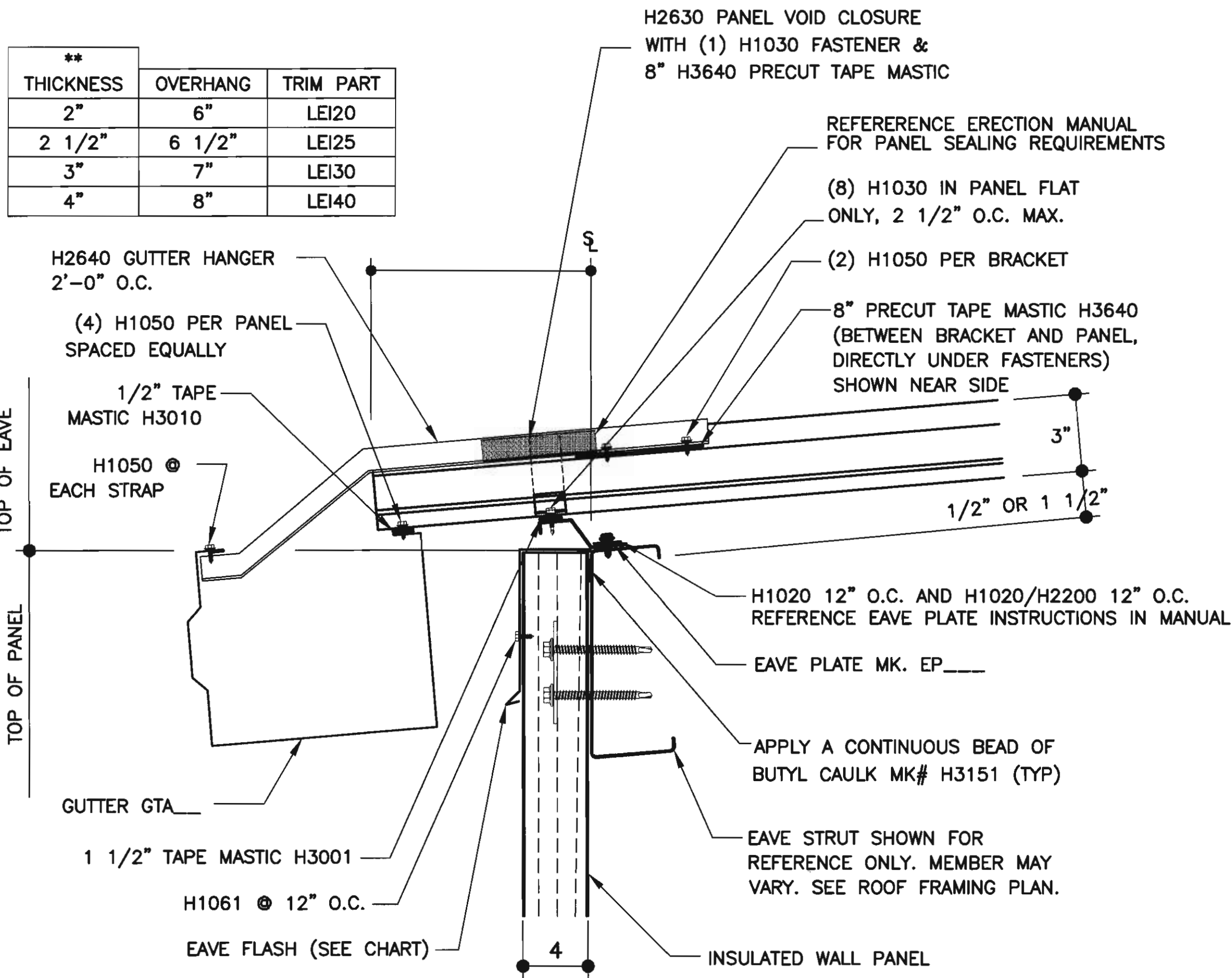
WALL SHEETING PLAN AT LINE J

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SEE ERECTION MANUALS FOR FURTHER INSTALLATION INSTRUCTIONS

CFR ERECTION MANUAL QUICK REFERENCE:		
SECTION(S)	DESCRIPTION	
10.4	EAVE PLATE INSTRUCTIONS	
10.6	INSULATION TIE-OFF INSTRUCTIONS	
10.8; 10.9	RAKE CLIP/RAKE ANGLE INSTRUCTIONS	
11.3	VOID CLOSURE/SEALANT	
16.1; 16.2	LOW EAVE FLASH INSTRUCTIONS	
16.3-16.5; 16.7	GUTTER INSTRUCTIONS	

WALL SHEETING ERECTION MANUAL QUICK REFERENCE:		
SECTION(S)	DESCRIPTION	
7	IWP INSTALLATION GUIDELINES	



EAVE GUTTER DETAIL

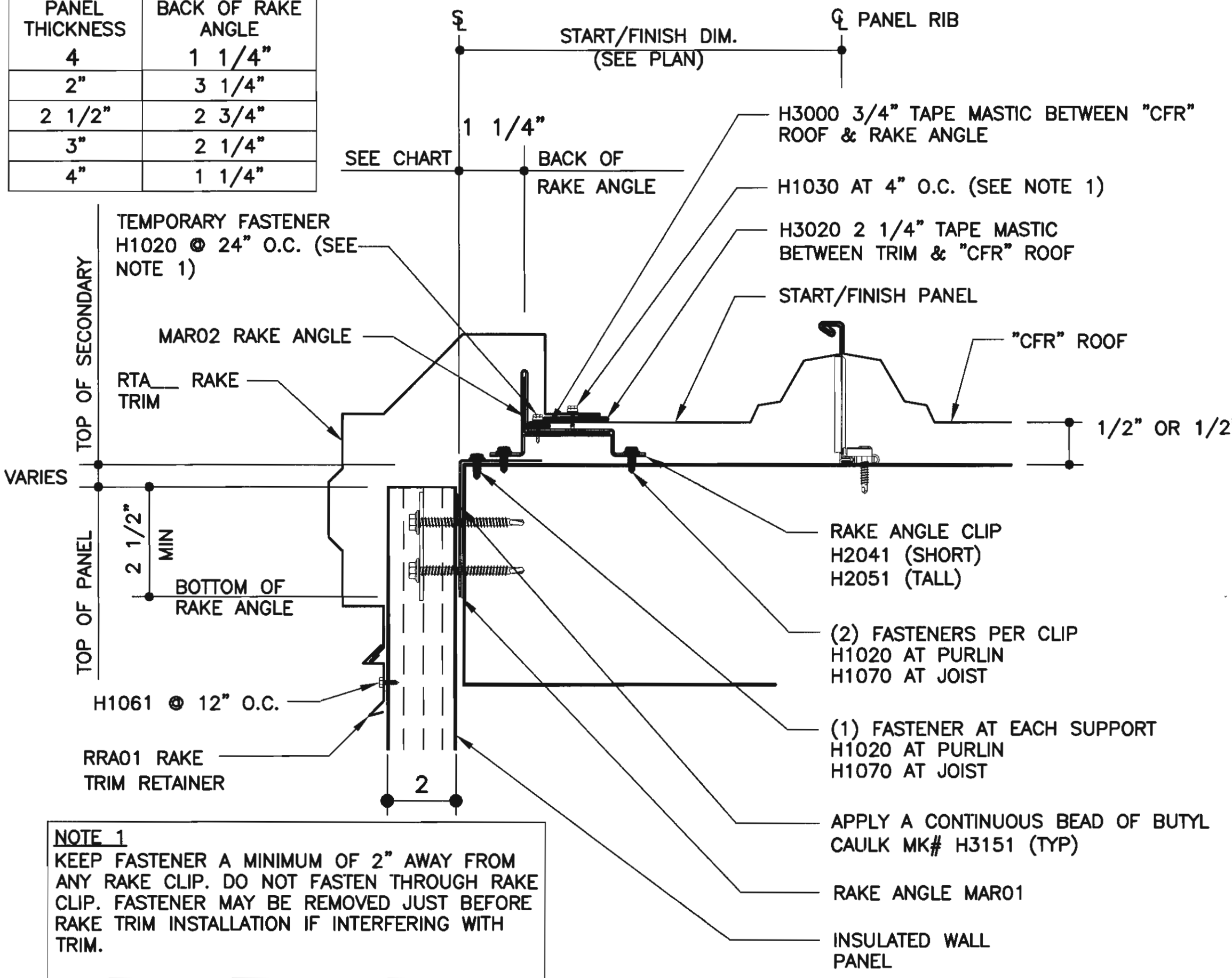
"CFR" ROOF

ED6610

SEE ERECTION MANUALS FOR FURTHER INSTALLATION INSTRUCTIONS

CFR ERECTION MANUAL QUICK REFERENCE:		
SECTION(S)	DESCRIPTION	
10.5; 10.6	UNDERSTANDING RAKE CLIP/ANGLE INSTRUCTIONS	
10.8; 10.9	RAKE CLIP/RAKE ANGLE INSTALLMENT INSTRUCTIONS	
10.12	FINAL PRE-PANEL INSTRUCTIONS	
11.2-11.4	CFR START PANEL INSTRUCTIONS	
16.6-16.9	RAKE TRIM INSTRUCTIONS	

INSULATED WALL PANEL ERECTION MANUAL QUICK REFERENCE:		
SECTION(S)	DESCRIPTION	
6,7,7.1	INSTALLATION GUIDELINES	



SCULPTURED RAKE DETAIL

"CFR" ROOF
SEE INSULATED WALL SHEETING DETAILS FOR ASSEMBLY METHOD

EE6610

PLEASE REFER TO THE ROOF AND WALL SHEETING ERECTION MANUALS FOR FURTHER ASSEMBLY INSTRUCTIONS.

EMNOTE

STRUCTURAL FASTENING AT PANEL HIDDEN JOINT		
PANEL THICKNESS	HIDDEN FASTENER	WASHER
2"	#14 X 2 SDHH	WC-01
2 1/2"	#14 X 3 SDHH	
3"	#14 X 3 SDHH	
4"	#14 X 4 SDHH	

STRUCTURAL FASTENER AT PANEL FACE		
PANEL THICKNESS	THROUGH FASTENER	
2"	#14 X 3 SDPH	
2 1/2"	#14 X 4 SDPH	
3"	#14 X 4 SDPH	
4"	#14 X 5 SDPH	

NOTE: THE USE OF A CENTER PUNCH TO SLIGHTLY DIMPLE THE PANEL FACE PRIOR TO INSTALLING THROUGH FASTENERS IS RECOMMENDED TO PREVENT "WALKING" OF THE FASTENERS. EXCESSIVE DAMAGE TO THE PANEL FINISH CAUSED DURING INSTALLATION MAY VOID THE PANEL FINISH WARRANTY.

STANDARD FASTENER SCHEDULE FOR INSULATED WALL PANEL
INSULATED WALL PANELS

DATE
7/15/16
11/22/16
6/26/17

FOR BUILD DEPT. REV
Rev 1 For Build Dept. Rev
Rev 2 For Build Dept. Rev

DATE
7/15/16
11/22/16
6/26/17

FOR BUILD DEPT. REV
Rev 1 For Build Dept. Rev
Rev 2 For Build Dept. Rev

NUCOR
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PROJECT NAME
Winterhaven Public Safety Facility
Winterhaven, CA
CUSTOMER NAME
MPA Architects
San Diego, CA
JOB NUMBER
U15S0716A

SHEET TITLE
Sheeting Details

SHEET
IMP1 of 6

REGISTERED PROFESSIONAL ENGINEER
CASEY KENT CHRISTENSEN
No. 82426
EXP. JUNE 30, 2018
CIVIL
STATE OF CALIFORNIA

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SEE ERECTION MANUALS FOR FURTHER INSTALLATION INSTRUCTIONS

WALL SHEETING ERECTION MANUAL QUICK REFERENCE:	
SECTION(S)	DESCRIPTION
7	WALL FASTENER REQUIREMENTS

WALL SHEETING ERECTION MANUAL QUICK REFERENCE:	
SECTION(S)	DESCRIPTION
7	WALL FASTENER REQUIREMENTS

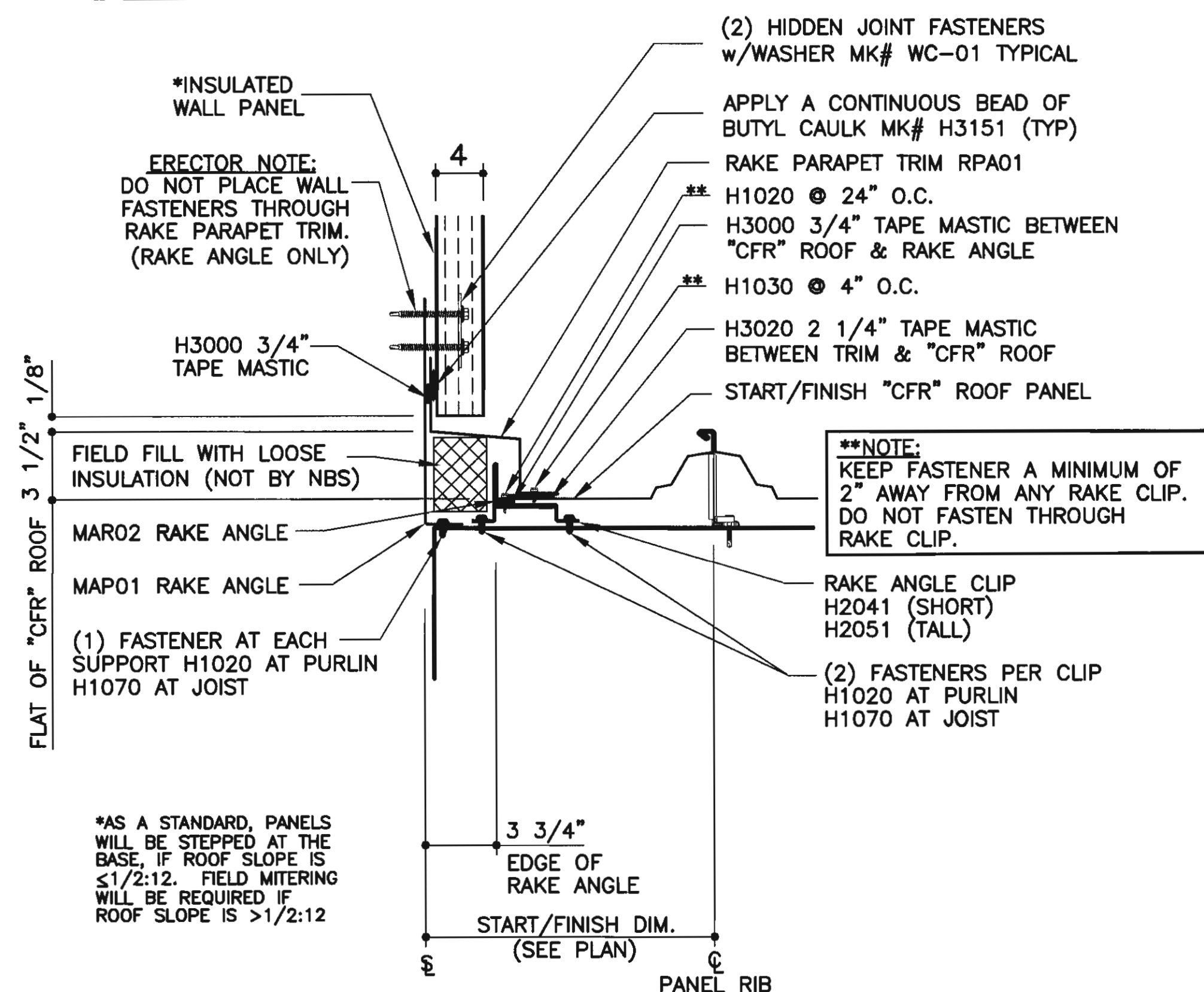
ERECTOR NOTES: H1020 SCREWS & H2200 INSULATION WASHERS HAVE BEEN SUPPLIED AT 12" O.C. FOR INSULATION ATTACHMENT AT THE HIGH EAVE. FIELD NOTCH PANELS AS NEEDED TO ALLOW FOR PROPER END DAM FIT UP.

-
- Technical drawing of a roof eave assembly. The drawing shows a cross-section of the roof structure, including the roof panel, insulation, and the eave member. Key components and fasteners are labeled:
- (7) H1020 FASTENERS PER PANEL
 - (5) H1050 FASTENERS PER PANEL
 - H3001 1 1/2" TAPE MASTIC
 - 27" H3650 TAPE MASTIC
 - ROOF PANEL
 - H2650 BACK-UP PLATE
 - HEB___ HIGH EAVE FLASH
 - H2600 END DAM
 - H1020
 - H1061 @ 12" O.C.
 - RRAO1 RAKE TRIM RETAINER
 - INSULATED WALL PANEL
 - PANEL CLIP
 - SECONDARY MEMBER
 - EAVE MEMBER SHOWN FOR REFERENCE ONLY. MEMBER MAY VARY. SEE ROOF FRAMING PLAN.
 - APPLY A CONTINUOUS BEAD OF BUTYL CAULK MK# H3151 (TYP)
- Dimensions and notes:
- 3"
 - 3"
 - 1/2" OR 1 1/2"
 - 4"
 - FIELD CUT 2" NOTCH AT EACH END DAM LOCATION
 - Panel Dimples
 - TOP OF EAVE
 - TOP OF PANEL

SCULPTURED HIGH EAVE DETAIL




"CFR" ROOF
SEE INSULATED WALL SHEETING DETAILS FOR ASSEMBLY METHOD

EH6606




PLEASE REFER TO
THE ROOF AND
WALL SHEETING
ERECTION
MANUALS FOR
FURTHER
ASSEMBLY
INSTRUCTIONS.


RAFTER IN HIGH BUILDING, "CFR" ROOF
SEE INSULATED WALL SHEETING DETAILS FOR ASSEMBLY METHOD

<p>H1060 SELF-DRILLING SCREW 1/4-14 x 7/8" TCP1 W/O WASHER 5/16" HEAD</p> 	<p>H1100 1/8" x 3/16" STAINLESS STEEL BLIND POP RIVET</p> 	<p>H1220 SELF-DRILLING SCREW 12-14 x 1" TCP1 W/O WASHER PHILLIPS HEAD</p> 
--	--	--

STRUCTURAL FASTENING AT PANEL HIDDEN JOINT		
PANEL THICKNESS	HIDDEN FASTENER	WASHER
2"	#14 X 2 SDHH	WC-01
2 1/2"	#14 X 3 SDHH	
3"	#14 X 3 SDHH	
4"	#14 X 4 SDHH	

	
#14 X - SDHH SELF DRILLING HEX HEAD	3 HOLE WASHER

STRUCTURAL FASTENER AT PANEL FACE	
PANEL THICKNESS	THROUGH FASTENER
2"	#14 X 3 SDPH
2 1/2"	#14 X 4 SDPH
3"	#14 X 4 SDPH
4"	#14 X 5 SDPH

	
#14 X - SDPH SELF DRILLING PANCAKE HEAD	

NOTE: THE USE OF A CENTER PUNCH TO SLIGHTLY DIMPLE THE PANEL FACE PRIOR TO INSTALLING THROUGH FASTENERS IS RECOMMENDED TO PREVENT "WALKING" OF THE FASTENERS. EXCESSIVE DAMAGE TO THE PANEL FINISH CAUSED DURING INSTALLATION MAY VOID THE PANEL FINISH WARRANTY.

STANDARD FASTENER SCHEDULE FOR INSULATED WALL PANEL

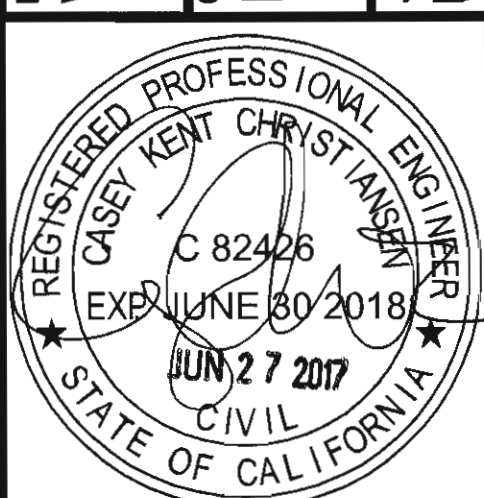
DATE	PC	ENG	CHA	DOWN	SEM	SHEET
7/15/16	TRC	KMB	NDD	TKL	Rev 1	For Build
11/22/16	RRS	KMB	SEM	Rev 2	For Build	
6/26/17	CXC	KMB	NVA	CAY	Rev 2	

NUCOR
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Bingham City, UT 84302
Phone: (435) 919-3100
Fax: (435) 919-3101

MEMBER
AIA
ACCREDITED
AIA/CES

PROJECT NAME	Winterhaven Public Safety Facility
CUSTOMER NAME	Winterhaven, CA
JOB NUMBER	U15S0716A
SHEET TITLE	Sheeting Details



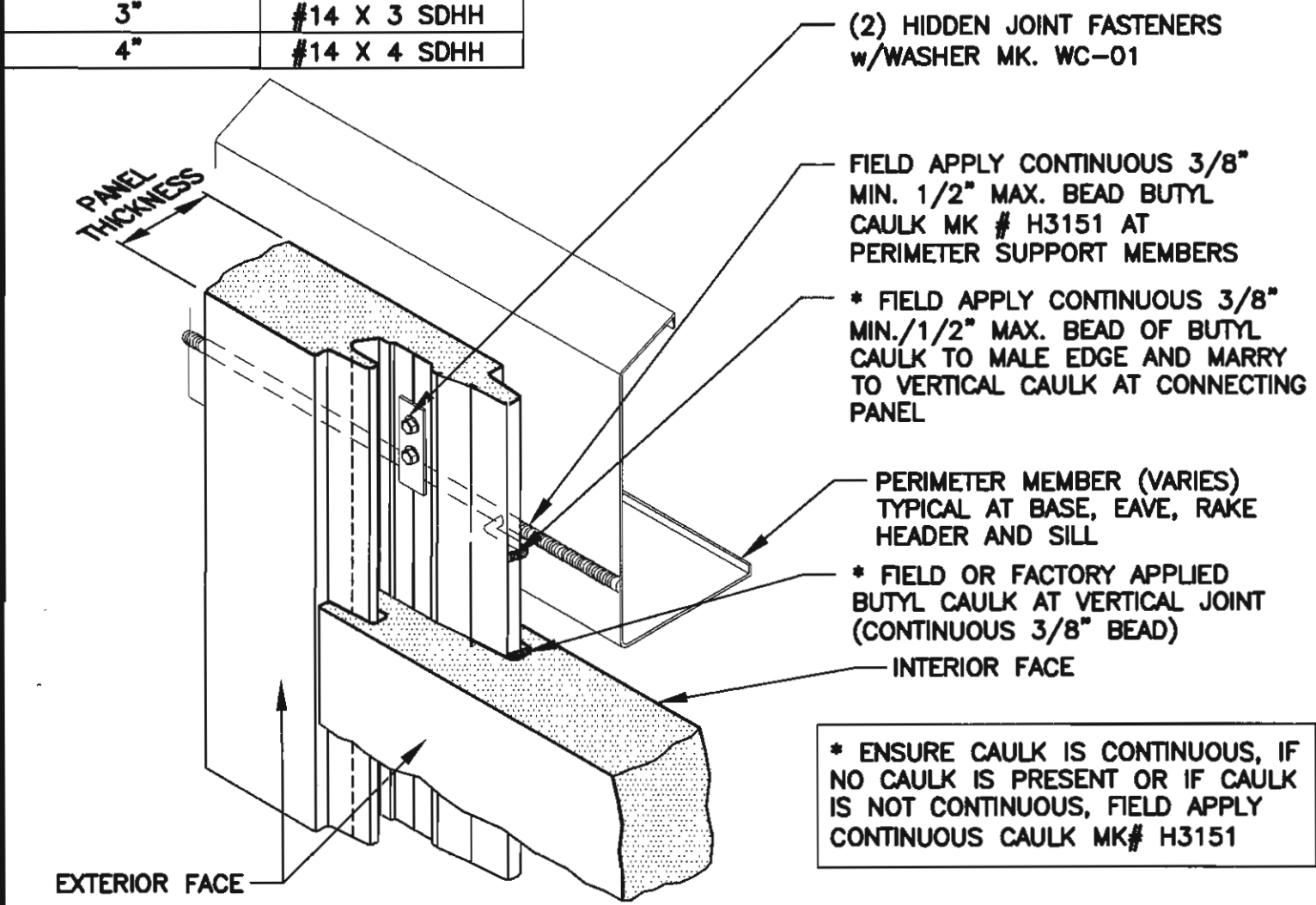
its seal pertains only to the materials designed and supplied by the Metal Building Supplier. The drawings and the seal of the Metal Building Supplier are the product of the Metal Building Supplier. The registered professional engineer whose seal appears on these drawings is employed by the Metal Building Supplier and does not serve or represent the project engineer of record and shall not be construed such.

Sheeting Details

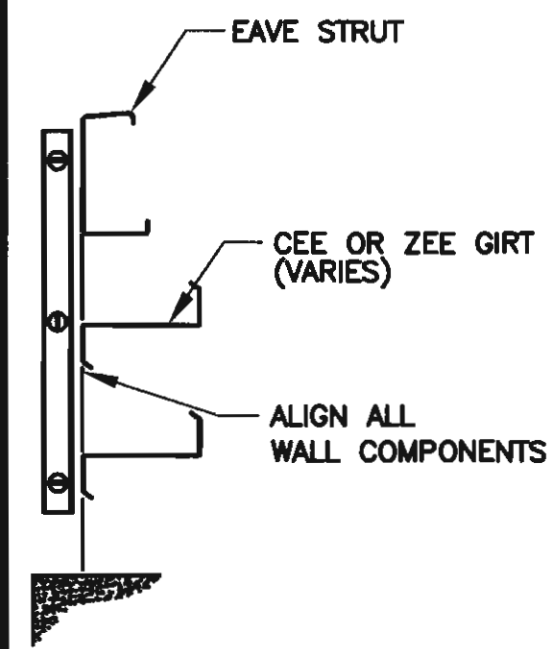
U15S0716A

IMP2 of 6

PANEL THICKNESS	HIDDEN FASTENER
2"	#14 X 2 SDHH
2 1/2"	#14 X 3 SDHH
3"	#14 X 3 SDHH
4"	#14 X 4 SDHH



BUTYL-CAULK @ PERIMETER MEMBERS
INSULATED WALL PANELS



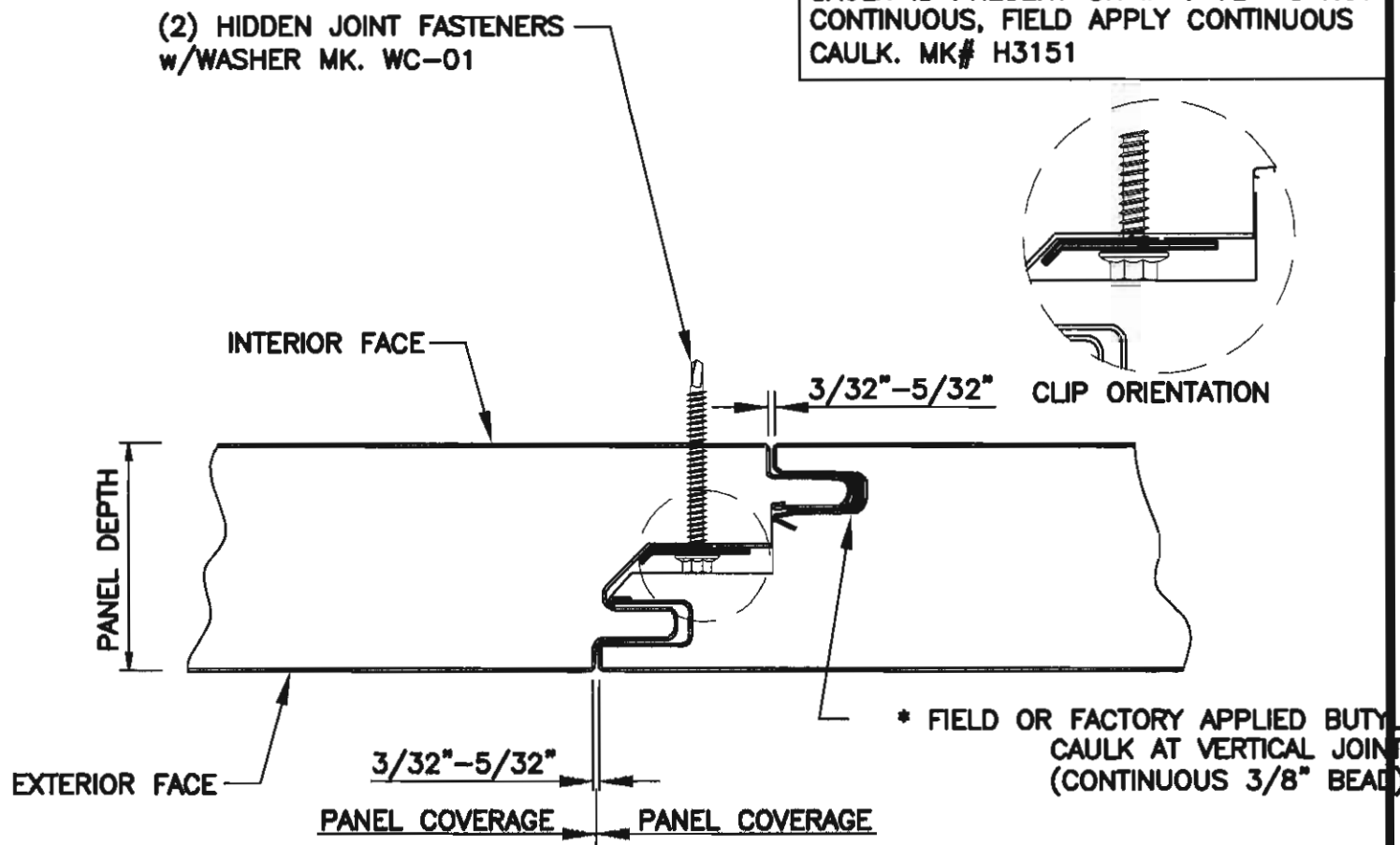
- PRIOR TO PANEL INSTALLATION:**
- REVIEW INSULATED WALL PANEL ERECTION MANUAL INSTALLATION PROCEDURES AND ERECTION DRAWING DETAILS.
 - WITH ALL SECONDARY SUPPORT STEEL INSTALLED AND PLUMB VERIFY WALL COMPONENT ALIGNMENT AND PLANE FLATNESS.
 - COMPONENTS SHOULD NOT VARY MORE THAN 3/16".
 - SURFACE SHOULD NOT VARY MORE THAN 1/4" OVER A 20' LENGTH IN ANY DIRECTION. -SHIMMING OF PANELS MAY BE REQUIRED, PANEL SHIMS AND LABOR TO INSTALL SHIMS N.I.C.
 - ALIGNMENT AT TRANSITION AREAS, SUCH AS CORNERS AND EAVE, SHALL BE WITHIN 1/8" OF THE THEORETICAL PLANE TO ACCOMMODATE CORNER PANELS AND FORMED FLASHING.

PANEL INSTALLATION NOTES:
INSTALL PANELS AS INDICATED ON THE INSULATED WALL PANEL ERECTION MANUAL AND ERECTION DRAWING DETAILS.

DO NOT OVERDRIVE FASTENERS.
OVERDRIVING FASTENERS CAN CAUSE DAMAGE AND DISTORTION OF THE PANEL FACE.

DO NOT SKIP ATTACHMENTS AT SECONDARY SUPPORT MEMBERS
PANELS MUST BE ATTACHED AT EACH GIRT LINE IN PROGRESSION. SECURING PANELS AT TOP AND BOTTOM ONLY CAN CAUSE PANELS TO BOW AND MAY MAKE IT IMPOSSIBLE FOR THEM TO RETURN TO THEIR NORMAL POSITION.

PANEL ERECTION NOTES

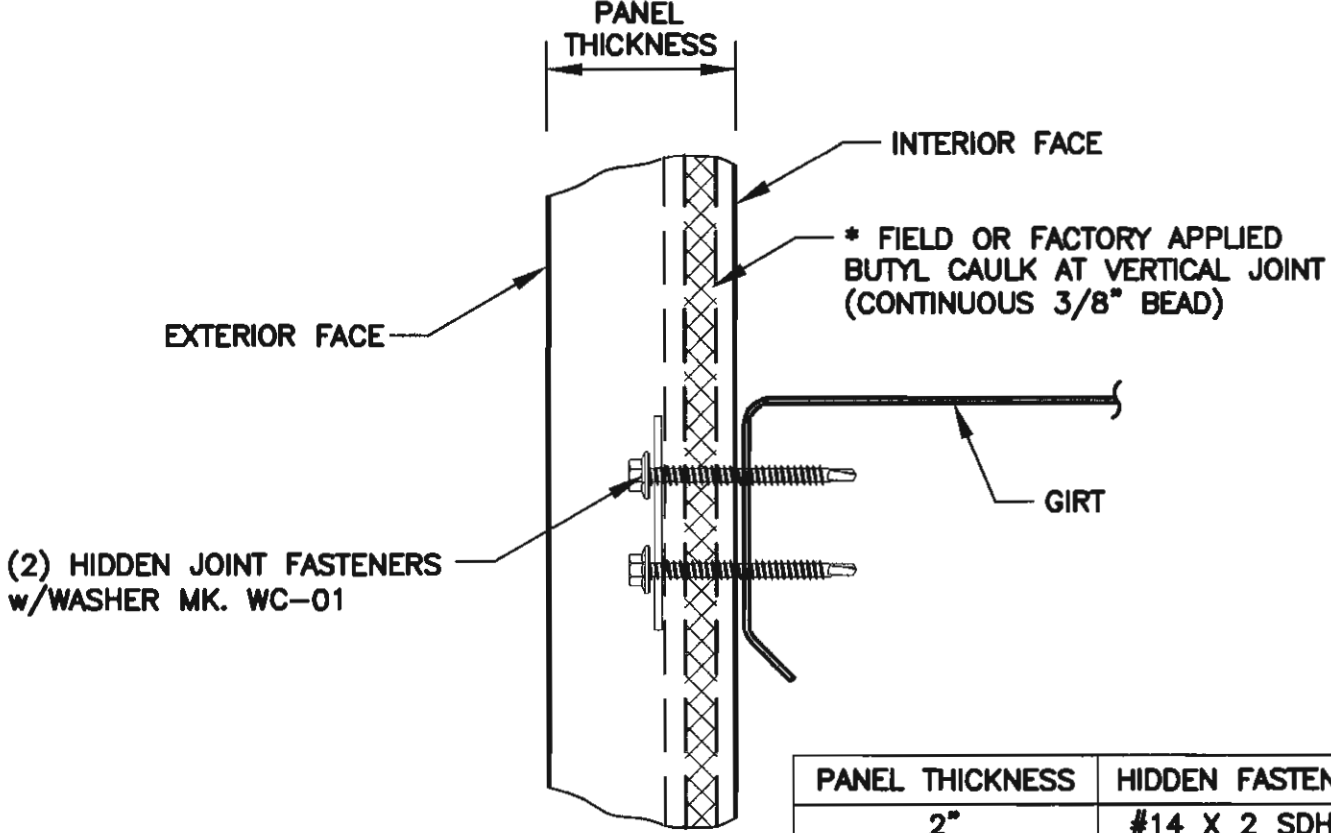


PANEL THICKNESS	HIDDEN FASTENER
2"	#14 X 2 SDHH
2 1/2"	#14 X 3 SDHH
3"	#14 X 3 SDHH
4"	#14 X 4 SDHH

VERTICAL JOINT @ MID-SPAN GIRT
INSULATED WALL PANELS

NOTE: DETAIL AS SHOWN TYPICAL AT MID-SPAN MEMBERS AWAY FROM CUT PANEL EDGES (NON-PERIMETER MEMBERS)

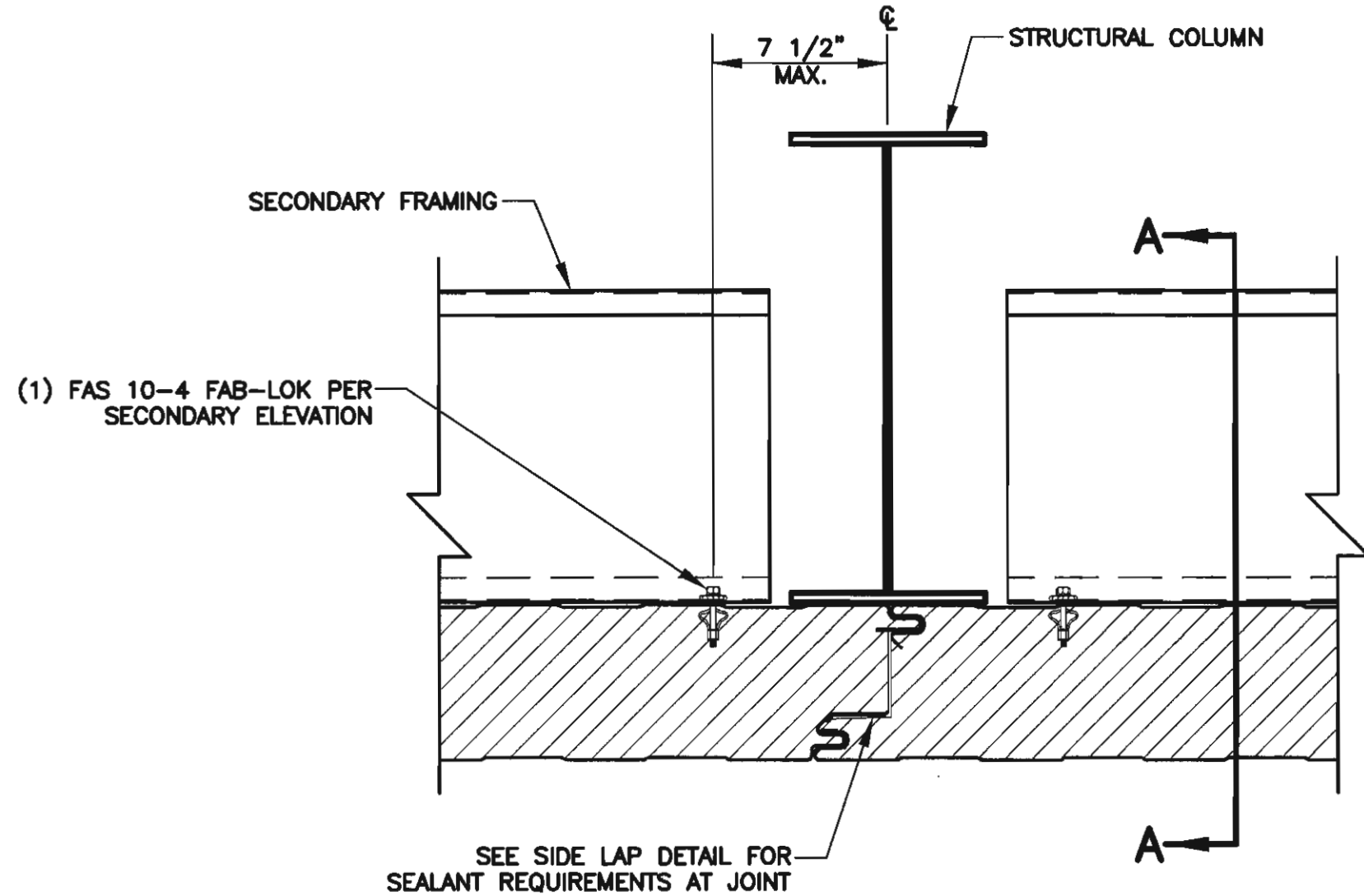
* ENSURE CAULK IS CONTINUOUS, IF NO CAULK IS PRESENT OR IF CAULK IS NOT CONTINUOUS, FIELD APPLY CONTINUOUS CAULK. MK# H3151



PANEL THICKNESS	HIDDEN FASTENER
2"	#14 X 2 SDHH
2 1/2"	#14 X 3 SDHH
3"	#14 X 3 SDHH
4"	#14 X 4 SDHH

VERTICAL JOINT "SECTION" @ MID-SPAN GIRT
INSULATED WALL PANELS

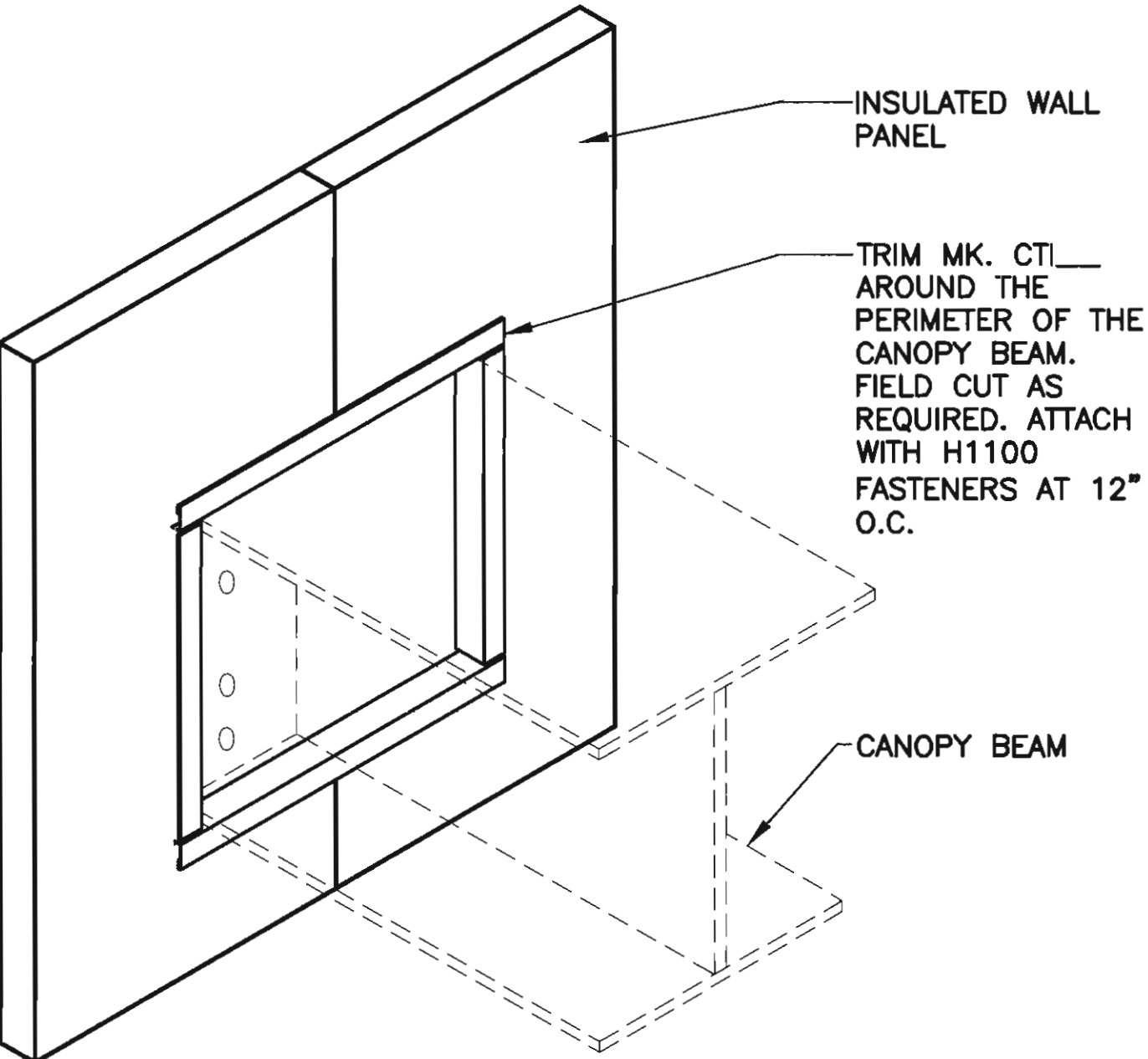
GA2001



PANEL JOINERY CONNECTION @ FLUSH GIRTS
INSULATED WALL PANEL JOINERY CONNECTION AT FLUSH GIRTS AT COLUMN FLANGE
PANEL IS NOT ALLOWED TO BE ATTACHED TO COLUMN FLANGE

SECTION A-A

GA2004



BEAM TRIM DETAIL

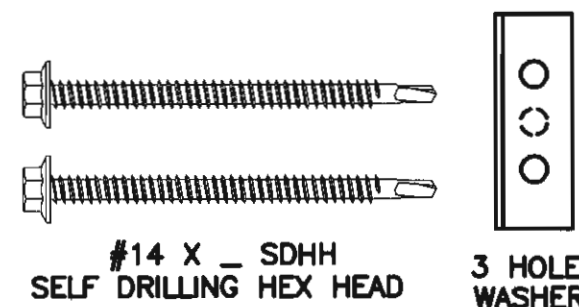
SEE INSULATED WALL SHEETING DETAILS FOR ASSEMBLY METHOD

GA2005

PLEASE REFER TO THE ROOF AND WALL SHEETING ERECTION MANUALS FOR FURTHER ASSEMBLY INSTRUCTIONS.

EMNOTE

H1060 SELF-DRILLING SCREW 1/4-14 x 7/8" TCP1 W/O WASHER 5/16" HEAD	H1100 1/8" x 3/16" STAINLESS STEEL BLIND POP RIVET	H1220 SELF-DRILLING SCREW 12-14 x 1" TCP3 W/O WASHER PHILLIPS HEAD
--	---	--



STRUCTURAL FASTENING AT PANEL HIDDEN JOINT		
PANEL THICKNESS	HIDDEN FASTENER	WASHER
2"	#14 X 2 SDHH	WC-01
2 1/2"	#14 X 3 SDHH	
3"	#14 X 3 SDHH	
4"	#14 X 4 SDHH	



STRUCTURAL FASTENER AT PANEL FACE	
PANEL THICKNESS	THROUGH FASTENER
2"	#14 X 3 SDPH
2 1/2"	#14 X 4 SDPH
3"	#14 X 4 SDPH
4"	#14 X 5 SDPH

NOTE: THE USE OF A CENTER PUNCH TO SLIGHTLY DIMPLE THE PANEL FACE PRIOR TO INSTALLING THROUGH FASTENERS IS RECOMMENDED TO PREVENT "WALKING" OF THE FASTENERS. EXCESSIVE DAMAGE TO THE PANEL FINISH CAUSED DURING INSTALLATION MAY VOID THE PANEL FINISH WARRANTY.

STANDARD FASTENER SCHEDULE FOR INSULATED WALL PANEL
INSULATED WALL PANELS

DATE	PK	ENR	CHK	REV	BY	DATE
7/15/16	TKC					
11/22/16	RRS					
6/26/17	CKC					
Rev 1 For Build Dept	Rev	TKL	SEM	KMB	NWA	CAY
Rev 2 For Build Dept	Rev					

NUCOR BUILDING SYSTEMS GROUP

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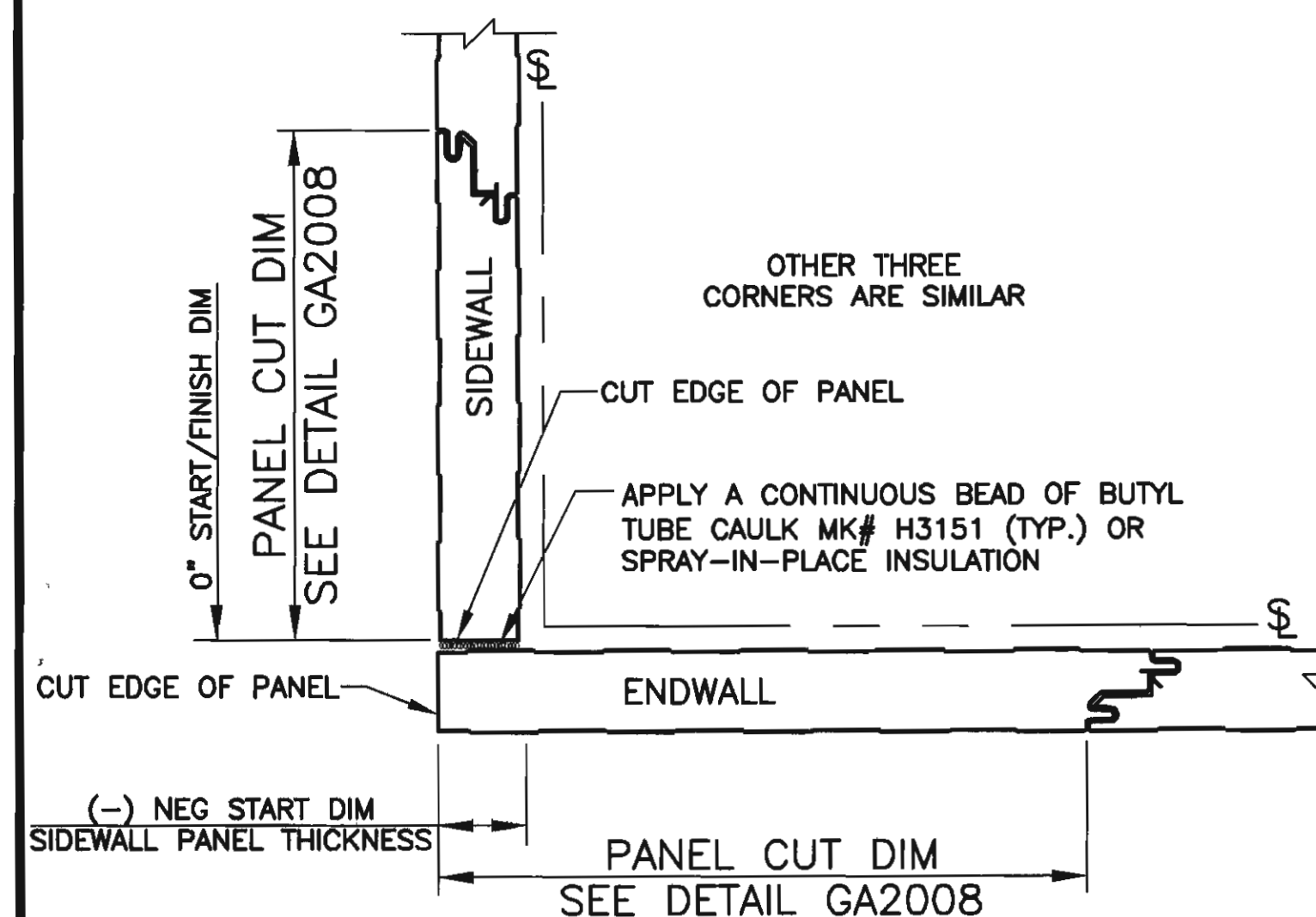
PROJECT NAME
Winterhaven Public Safety Facility
Winterhaven, CA

CUSTOMER NAME
MPA Architects
San Diego, CA

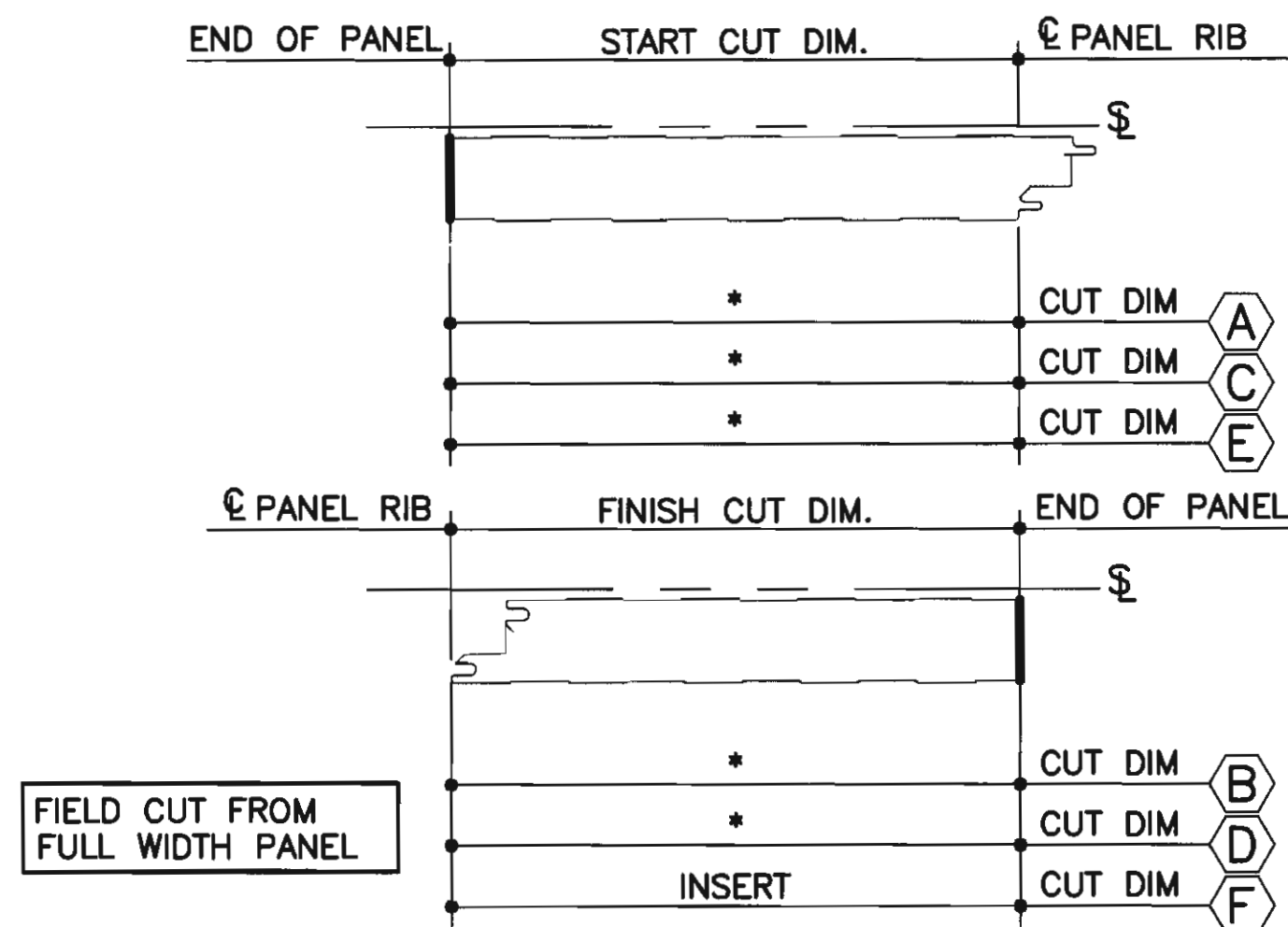
JOB NUMBER
U15S0716A



SHEET
IMP3 of 6



GA2007

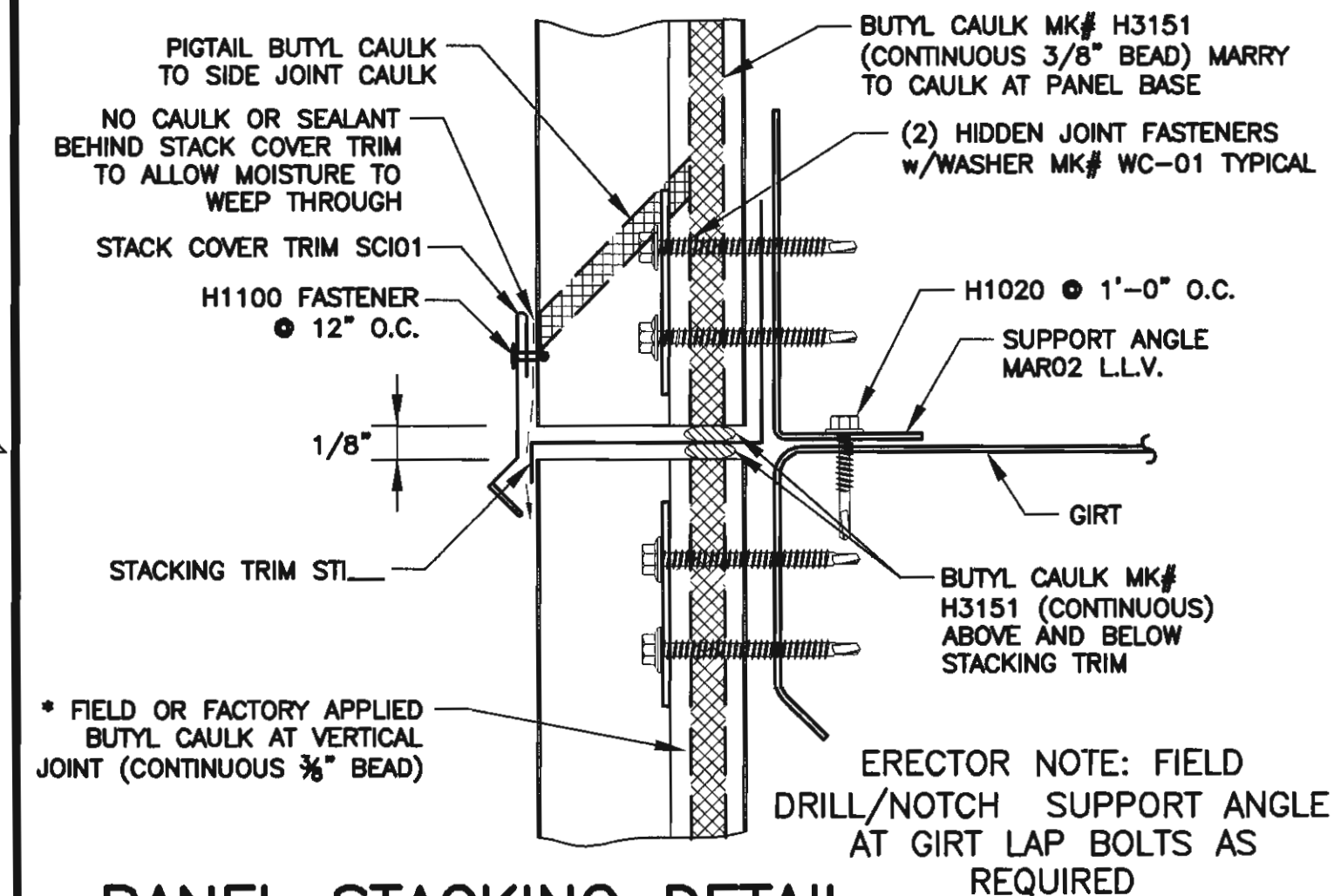


WHEN FIELD CUTTING OR MITERING WALL PANELS, AN 8" DIAMETER, 40 TOOTH CARBIDE BLADE SHALL BE USED. ABRASIVE CUTTING TOOLS SUCH AS MECHANICAL GRINDERS, SAWS, SHEARS, OR SCISSORS CAN DAMAGE THE FINISH AND CREATE EXCESS METAL SHAVINGS THAT CAN CORRODE THE PANELS. THE USE OF NON-APPROVED CUTTING DEVICES MAY VOID YOUR FACTORY WARRANTY.

PANEL THICKNESS	HIDDEN FASTENER
2"	#14 X 2 SDHH
2 1/2"	#14 X 3 SDHH
3"	#14 X 3 SDHH
4"	#14 X 4 SDHH

UNTIL WALL PANELS ARE
INSTALLED, POP RIVETS ARE TO
BE USED FOR TEMPORARY
INSTALLATION OF STACKING TRIM.

* ENSURE CAULK IS CONTINUOUS, IF NO CAULK IS PRESENT OR IF CAULK IS NOT CONTINUOUS, FIELD APPLY CONTINUOUS CAULK H3151.



INSULATED WALL PANELS
PANEL SHIMMING MAY BE REQUIRED. PANEL SHIMS BY OTHERS

GA2042

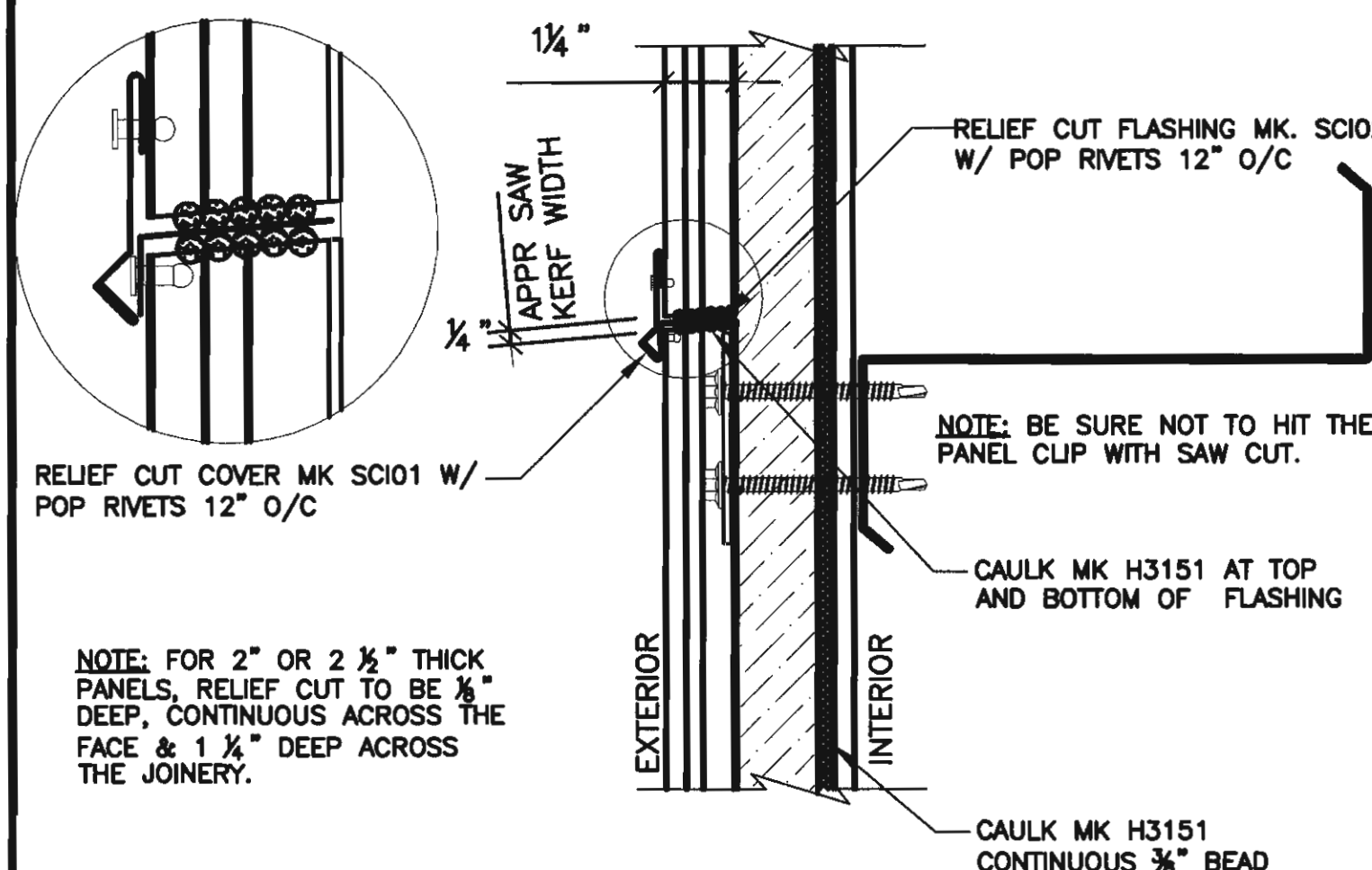
- 1) PANELS MAY BE CUT PRIOR TO INSTALLATION OR CUT IN PLACE. NUCOR RECOMMENDS CUTTING THE PANELS PRIOR TO INSTALLATION TO MINIMIZE PANEL DAMAGE & TO ENSURE A GOOD FIT.
- 2) NUCOR RECOMMENDS USING A CIRCULAR SAW WITH AN 8" DIAMETER, 40 TOOTH CARBIDE BLADE.
- 3) TO PERFORM A GOOD CUT, FOLLOW STEPS A THROUGH D SHOWN BELOW. IF THE PANEL THICKNESS IS GREATER THAN THE SAW'S BLADE RADIUS, CUTTING SHOULD BE DONE IN TWO STEPS, CUTTING ONE SIDE AT A TIME: FOLLOW STEPS A THROUGH F.

- A) MEASURE THE AREA TO CUT & MARK A LINE ON THE PANEL SURFACE.
- B) USE ADHESIVE TAPE ON BOTH SIDES OF THE CUTTING LINE TO PROTECT PANEL SURFACE.
- C) RECHECK MEASUREMENTS & PROCEED WITH CUTTING OPERATION.
- D) CLEAN OFF ANY METAL CHIPS LEFT ON PANEL AFTER CUTTING PROCEDURE. ANY METAL CHIPS ON THE FOAM CAN BE REMOVED BY HAND.
- E) IF NECESSARY, TURN PANEL OVER & FOLLOW STEPS A THROUGH D FOR THE OTHER SIDE OF THE PANEL.
- F) FILE OR SAND OFF ANY BURRS ON THE METAL AFTER CUTTING. THE PANEL IS NOW READY FOR INSTALLATION. THE INSTALLER MUST CONSIDER THE APPLICATION OF A CONTINUOUS BEAD OF SEALANT AND, IF NECESSARY, THE CUTTING OF THERMAL BREAKS PRIOR TO INSTALLATION; SUCH TASKS SHALL BE DONE ON THE GROUND.

NOTE: DO NOT USE A RECIPROCATING SAW AS FRICTION BETWEEN THE CUTTING BLADE & THE PANEL CREATES HEAT & MAY DAMAGE THE PAINTED SURFACE OF THE PANEL.

NOTE:

1. (FIELD) RELIEF CUT TO BE MADE USING A CIRCULAR SAW WITH A CARBIDE-TIPPED BLADE.
2. RELIEF CUT TO BE MADE AFTER PANEL INSTALLATION, ON THE SAME DAY AS PANEL ERECTION.
3. RELIEF CUT TO BE 1 3/4" DEEP IN ORDER TO PENETRATE FULL DEPTH OF FORMED PANEL JOINTERY.
AT AN (APPROXIMATE) INCLINE OF 5°, CONTINUOUS ACROSS FULL WIDTH OF PANEL.
4. LOCATE THE RELIEF CUT AT +/- 6" OF THE SECONDARY FRAMING MEMBER ELEVATION.



INSULATED WALL PANELS
PANEL SHIMMING MAY BE REQUIRED. PANEL SHIMS BY OTHERS

GA2043

• TRIM FASTENER (SEE FASTENER SCHEDULE)
 • HIDDEN FASTENER (SEE CHART)
 • THROUGH FASTENER (SEE CHART)

PANCAKE HEAD FASTENER
 SEE CORNER DETAIL
 FOR FASTENER
 PLACEMENT

HIDDEN FASTENER
 W/ WASHER
 EAVE MEMBER

FIELD CUT
 PANEL (IF
 REQ'D)

INSULATED
 WALL PANEL

* SIDE LAP

GIRTS

(FULL PANELS * NET

CORNER
 TRIM

TRIM
 FASTENER
 12" O.C.

BASE
 MEMBER

ERECTOR NOTES:

1. BLOCK GIRTS TO "LEVEL" POSITION BEFORE STARTING PANEL ERECTION. MAINTAIN WOOD BLOCKING (NOT BY NUCOR) UNTIL PANEL TO STRUCTURAL FASTENERS ARE INSTALLED.
2. ALIGN AND PLUMB FIRST WALL PANEL.
3. SHIMS OF PANELS MAY BE REQUIRED. PANELS SHIMS BY OTHERS.
4. FOUNDATION MUST BE SQUARE, LEVEL, AND CORRECT TO THE OUT-TO-OUT STEEL LINE DIMENSIONS.
5. THE USE OF A CENTER PUNCH TO SLIGHTLY DIMPLE THE PANEL FACE PRIOR TO INSTALLING THE THROUGH FASTENERS IS RECOMMENDED TO PREVENT "WALKING" OF THE FASTENERS. EXCESSIVE DAMAGE OF THE PANEL CAUSED DURING THE INSTALLATION MAY VOID THE WARRANTY.
6. IF THE PANEL SEAM CAULK IS CONTINUOUS, IF NO CAULK IS PRESENT OR IF CAULK IS NOT CONTINUOUS, FIELD APPLY CONTINUOUS BUTYL TUBE CAULK.
5. ERECTION CREW IS TO CLEAN ALL WALL PANELS BEFORE LEAVING JOB SITE.
6. STORE PANELS PROPERLY TO PREVENT MOISTURE. SEE ERECTION MANUAL.

[illegible]

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PROJECT NAME
Winterhaven Public Safety Facility

Winterhaven, CA

CUSTOMER NAME
MPA Architects
San Diego, CA

J15S0716A




SHEET TITLE
Sheeting Details

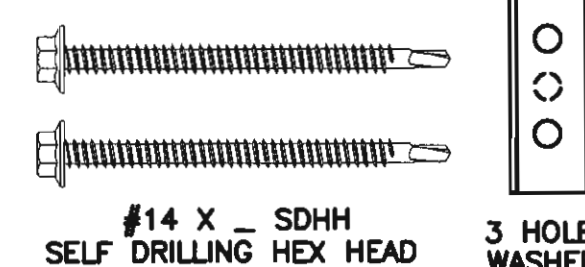
J15S0716A

IMP4 of 6

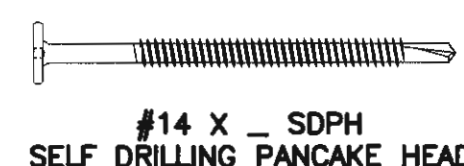
PLEASE REFER TO
THE ROOF AND
WALL SHEETING
ERECTION
MANUALS FOR
FURTHER
ASSEMBLY
INSTRUCTIONS.

EMNOTE

<p>H1060 SELF-DRILLING SCREW 1/4-14 x 7/8" TCP1 W/O WASHER 5/16" HEAD</p> 	<p>H1100 1/8" x 3/16" STAINLESS STEEL BLIND POP RIVET</p> 	<p>H1220 SELF-DRILLING SCREW 12-14 x 1" TCP3 W/O WASHER PHILLIPS HEAD</p> 
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STRUCTURAL	FASTENING AT PANEL	HIDDEN JOINT
PANEL THICKNESS	HIDDEN FASTENER	WASHER
2"	#14 X 2 SDHH	WC-01
2 1/2"	#14 X 3 SDHH	
3"	#14 X 3 SDHH	
4"	#14 X 4 SDHH	



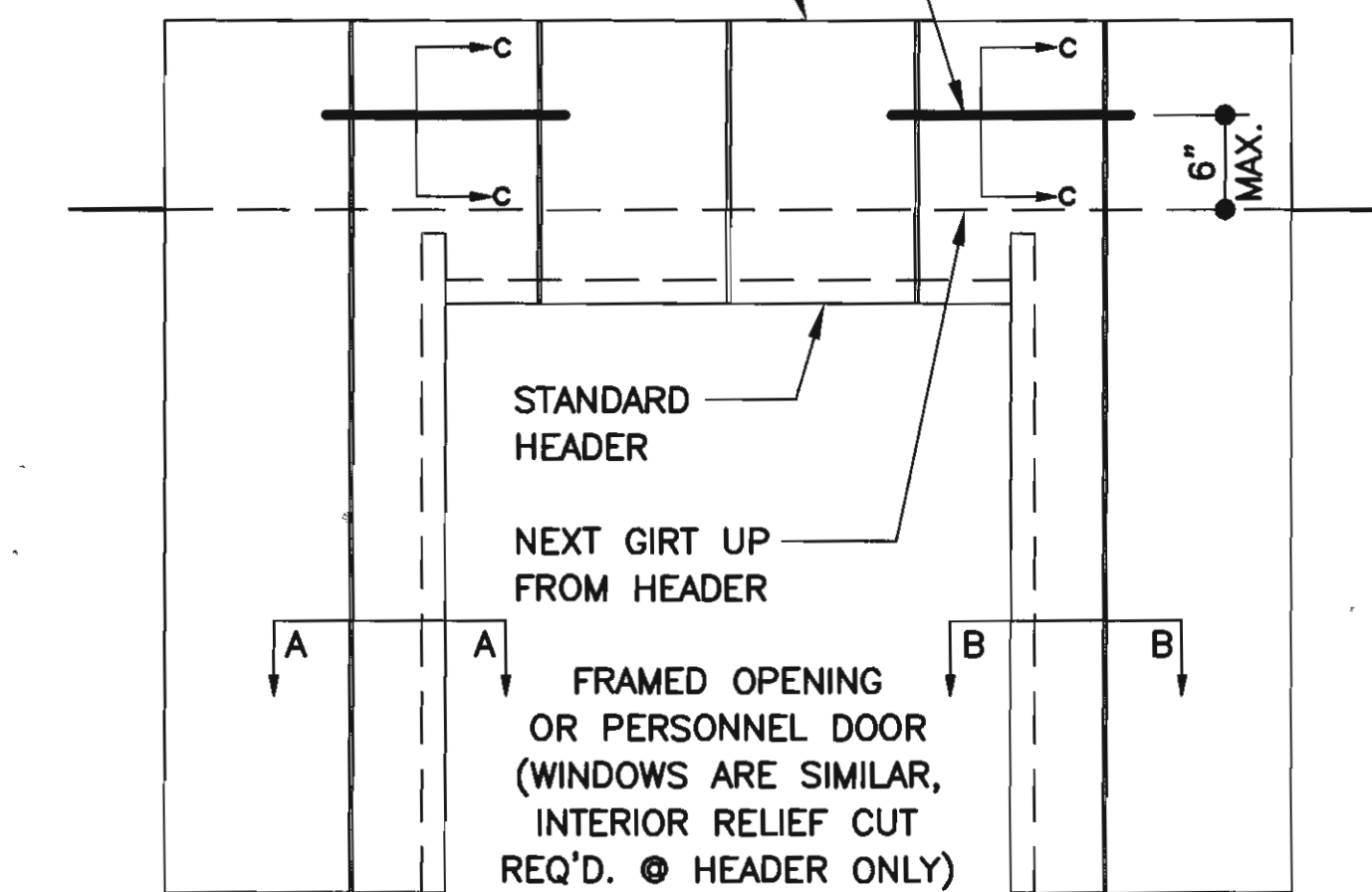
STRUCTURAL FASTENER AT PANEL FACE	
PANEL THICKNESS	THROUGH FASTENER
2"	#14 X 3 SDPH
2 1/2"	#14 X 4 SDPH
3"	#14 X 4 SDPH
4"	#14 X 5 SDPH

NOTE: THE USE OF A CENTER PUNCH TO SLIGHTLY DIMPLE THE PANEL FACE PRIOR TO INSTALLING THROUGH FASTENERS IS RECOMMENDED TO PREVENT "WALKING" OF THE FASTENERS. EXCESSIVE DAMAGE TO THE PANEL FINISH CAUSED DURING INSTALLATION MAY VOID THE PANEL FINISH WARRANTY.

STANDARD FASTENER SCHEDULE FOR INSULATED WALL PANEL

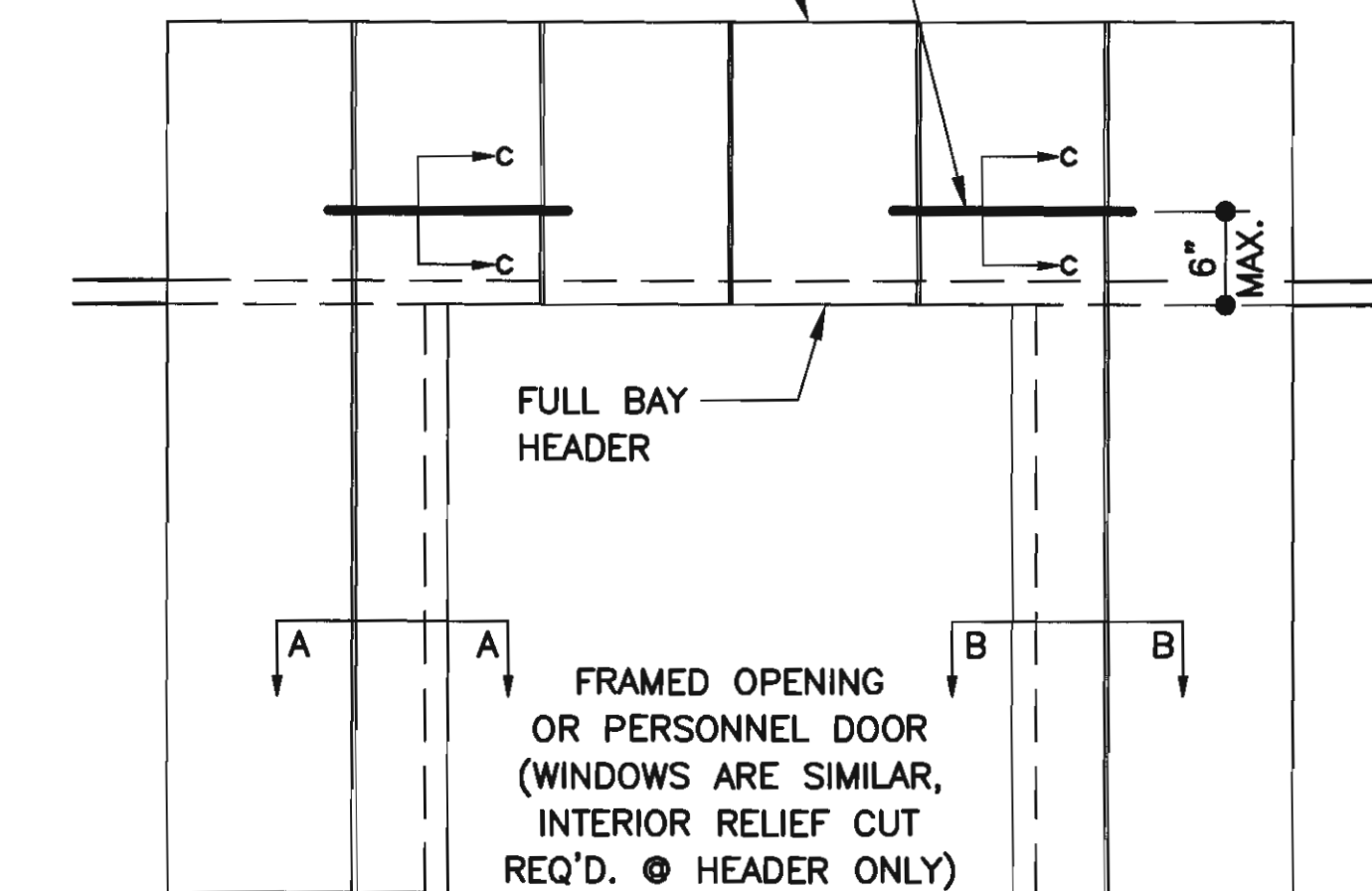
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INSULATED METAL WALL PANEL



INTERIOR RELIEF CUT ① STANDARD HEADER

INSULATED METAL WALL PANEL



INTERIOR RELIEF CUT ● FULL BAY HEADER

INSULATED METAL WALL PANEL

CAULK SAW CUT TO MAKE LESS VISIBLE.
CAULK MK. H3151

APPROXIMATE SAW KERF WIDTH

1 1/4"

1/4" **

ZEE GIRTS SHOWN, FULL BAY HEADER SIMILAR

6" MAX.

LOCATE RELIEF CUT AS CLOSE TO GIRTS AS POSSIBLE

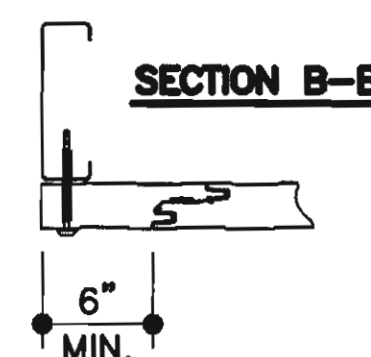
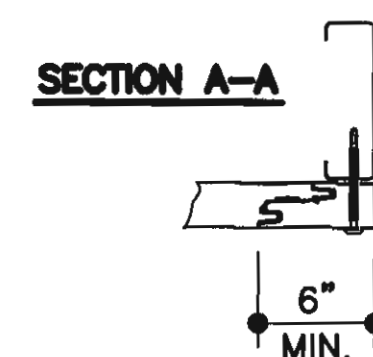
ERECTOR NOTE: **
© 2" & 2 1/2" THICK PANELS,
KERF WIDTH SHOULD BE 1/8",
CUT TO REMAIN 1 1/4" DEEP
ACROSS PANEL JOINERY.

—CAULK MK. H3151
CONTINUOUS 3/8" BEAD
© PANEL JOINT

(SECTION C-C)
INTERIOR RELIEF CUT

- ### INTERIOR RELIEF CUT (NOTES)

1. (FIELD) RELIEF CUT TO BE MADE USING A CIRCULAR SAW WITH A CARBIDE-TIPPED BLADE.
2. RELIEF CUT TO BE MADE AFTER PANEL INSTALLATION, ON SAME DAY AS PANEL ERECTION.
3. RELIEF CUT TO BE 1 1/4" DEEP IN ORDER TO PENETRATE FULL DEPTH OF PANEL JOINERY, CONTINUOUS ACROSS FULL WIDTH OF PANEL.
- 4) LOCATE THE RELIEF CUT DIRECTLY ABOVE THE SECONDARY FRAMING MEMBER.
5. SEE BELOW FOR MINIMUM DIMENSIONS @ FRAMED OPENINGS.

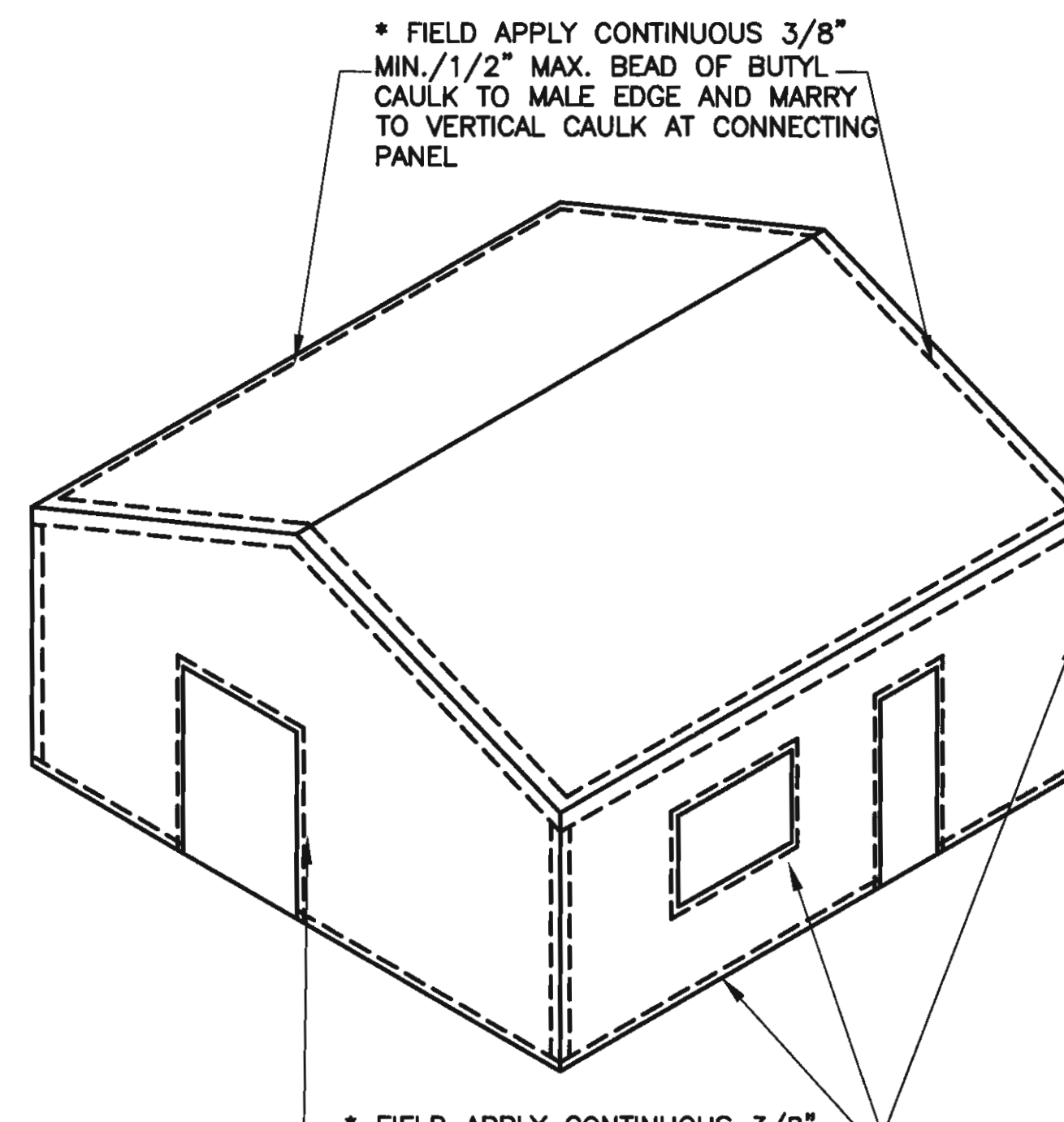


FIELD APPLIED INTERIOR RELIEF CUT • F.O.

INSULATED WALL PANELS
PANEL SHIMMING MAY BE REQUIRED. PANEL SHIMS BY OTHERS.

GA2045

NOTE; FIELD APPLY CONTINUOUS
CAULK MK# H3151, ENSURE CAULK
IS CONTINUOUS TO PROVIDE A
WEATHER-TIGHT SEAL.



PERIMETER CAULKING IS A CRITICAL PART OF THE PANEL INSTALLATION. NOT INSTALLING THE PERIMETER CAULKING WILL LEAD TO AIR LEAKS, WHICH WILL LEAD TO CONDENSATION AND/OR FROST. REFERENCE THE DETAILS AND THE ERECTION MANUAL FOR PROPER CAULKING PLACEMENT.

PERIMETER CAULKING

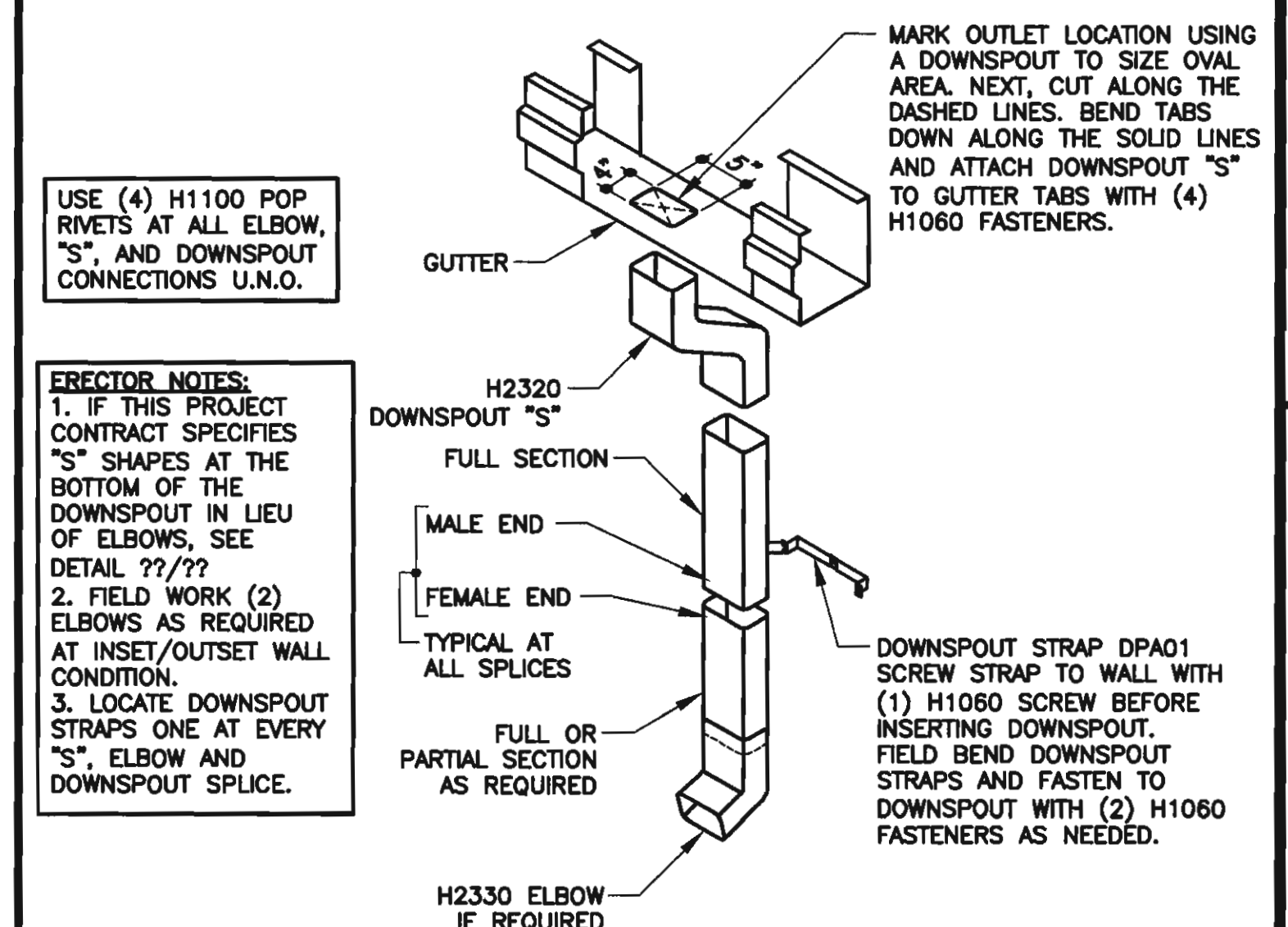
● INSULATED METAL PANELS
USE WHERE APPLICABLE.

PLEASE REFER TO
THE ROOF AND
WALL SHEETING
ERECTION
MANUALS FOR
FURTHER
ASSEMBLY
INSTRUCTIONS.

MEMNOTE

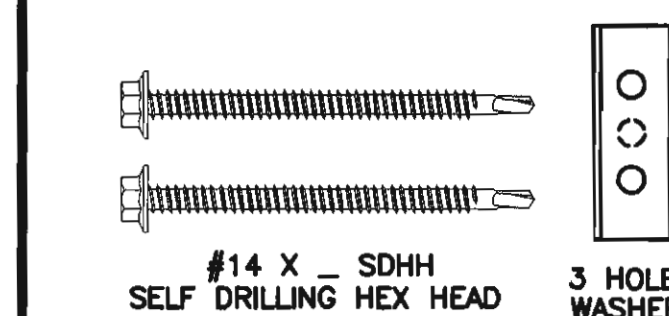
FIELD INSTALLED INSULATION NOTE

IT IS THE RESPONSIBILITY OF THE ERECTOR TO FIELD FILL ALL AIR VOIDS WITH INSULATION. UNINSULATED AREAS WILL CAUSE HOT AND COLD SPOTS THAT CAN CAUSE CONDENSATION AND/OR FROST. THESE VOIDS COMMONLY HAPPEN AROUND THE PERIMETER OF THE BUILDING. FAILURE TO DO SO WILL CAUSE FUTURE PROBLEMS.

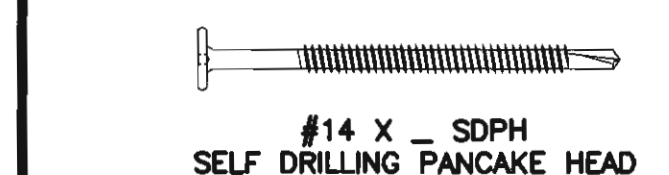


STANDARD GUTTER AND DOWNSPOUT DETAIL

REFERENCE GUTTER AND DOWNSPOUT SCHEDULE FOR DOWNSPOUT MARK NUMBERS



STRUCTURAL FASTENING AT PANEL HIDDEN JOINT		
PANEL THICKNESS	HIDDEN FASTENER	WASHER
2"	#14 X 2 SDHH	WC-01
2 1/2"	#14 X 3 SDHH	
3"	#14 X 3 SDHH	
4"	#14 X 4 SDHH	



STRUCTURAL FASTENER AT PANEL FACE	
PANEL THICKNESS	THROUGH FASTENER
2"	#14 X 3 SDPH
2 1/2"	#14 X 4 SDPH
3"	#14 X 4 SDPH
4"	#14 X 5 SDPH

NOTE: THE USE OF A CENTER PUNCH TO SLIGHTLY DIMPLE THE PANEL FACE PRIOR TO INSTALLING THROUGH FASTENERS IS RECOMMENDED TO PREVENT "WALKING" OF THE FASTENERS. EXCESSIVE DAMAGE TO THE PANEL FINISH CAUSED DURING INSTALLATION MAY VOID THE PANEL FINISH WARRANTY.

STANDARD FASTENER SCHEDULE FOR INSULATED WALL PANEL

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Brigham City, UT 84302
Phone: (435) 919-3100
Fax: (435) 919-3101

PROJECT NAME
Winterhaven Public Safety Facility
Winterhaven, CA
CUSTOMER NAME

MPA Architects
San Diego, CA

Sheeting Details

J15S0716A

IMP D5 of 6

This seal pertains only to the materials designed and supplied by the Metal Building Supplier. The drawings and the Metal Buildings which they represent are the product of the Metal Building Supplier. The registered professional engineer whose seal appears on these drawings is employed by the Metal Building Supplier and does not serve as or represent the project engineer of record and shall not be construed as such.

* ENSURE CAULK IS CONTINUOUS, IF NO CAULK IS PRESENT OR IF CAULK IS NOT CONTINUOUS, FIELD APPLY CONTINUOUS CAULK MK# H3151



BASE TRIM WITH PANEL SUPPORT
SEE INSULATED WALL PANEL SHEETING ERECTION NOTES
FOR PANEL FASTENER LOCATIONS.

* ENSURE CAULK IS CONTINUOUS, IF NO CAULK IS PRESENT OR IF CAULK IS NOT CONTINUOUS, FIELD APPLY CONTINUOUS CAULK MK# H3151



BASE TRIM WITH PANEL SUPPORT • CURB WALL > 4'-0" TALL
SEE INSULATED WALL PANEL SHEETING ERECTION NOTES FOR
PANEL FASTENER LOCATIONS.

NOTE: THE USE OF A CENTER PUNCH TO SLIGHTLY DIMPLE THE PANEL FACE PRIOR TO INSTALLING THE THROUGH FASTENERS IS RECOMMENDED TO PREVENT "WALKING" OF THE FASTENERS. EXCESSIVE DAMAGE OF THE PANEL FINISH CAUSED DURING INSTALLATION MAY VOID THE PANEL FINISH WARRANTY.



NOTE: THE USE OF A CENTER PUNCH TO SLIGHTLY DIMPLE THE PANEL FACE PRIOR TO INSTALLING THE THROUGH FASTENERS IS RECOMMENDED TO PREVENT "WALKING" OF THE FASTENERS. EXCESSIVE DAMAGE OF THE PANEL FINISH CAUSED DURING INSTALLATION MAY VOID THE PANEL FINISH WARRANTY.



INSULATED WALL PANEL AT JAMB
PRE-DRILLING WILL BE REQUIRED FOR POP RIVETS

NOTE: THE USE OF A CENTER PUNCH TO SLIGHTLY DIMPLE THE PANEL FACE PRIOR TO INSTALLING THE THROUGH FASTENERS IS RECOMMENDED TO PREVENT "WALKING" OF THE FASTENERS. EXCESSIVE DAMAGE OF THE PANEL FINISH CAUSED DURING INSTALLATION MAY VOID THE PANEL FINISH WARRANTY.



INSULATED WALL PANEL

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INSULATED WALL PANEL

NUCOR
BUILDING SYSTEMS GROUP
1050 North Watery Lane
Bingham City, UT 84302
Phone: (435) 919-3100
Fax: (435) 919-3101

PROJECT NAME		Winterhaven Public Safety Facility Winterhaven, CA
CUSTOMER NAME		
MPA Architects San Diego, CA		SHEET TITLE Sheeting Details
JOB NUMBER U15S0716A		

A circular professional engineer seal for Casey Kent Christianson, State of California. The seal contains the following text: "REGISTERED PROFESSIONAL ENGINEER" around the top arc, "CASEY KENT CHRISTIANSON" around the bottom arc, "C 82426" in the center, "EXP. JUNE 30, 2018" below the center, and "JUN 27 2017" and "CIVIL" below the expiration date. Two stars are positioned on the left and right sides of the seal.

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MID-SPAN OF PANEL

PANEL THICKNESS	THROUGH FASTENER	HIDDEN FASTENER
2"	#14 X 3 SDPH	#14 X 2 SDHH
2 1/2"	#14 X 4 SDPH	#14 X 3 SDHH
3"	#14 X 4 SDPH	#14 X 3 SDHH
4"	#14 X 5 SDPH	#14 X 4 SDHH

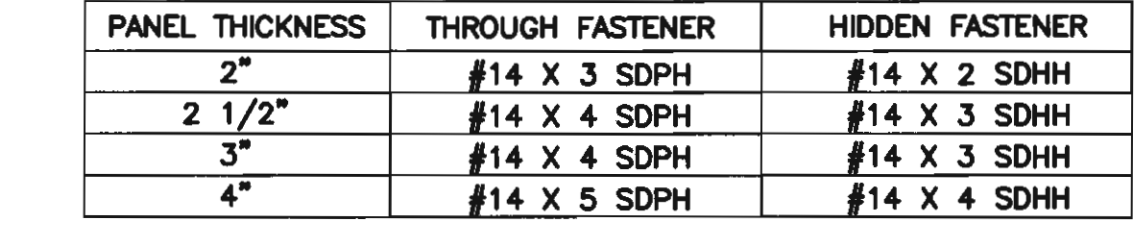
SIDE JOINT OF PANEL

* FIELD OR FACTORY APPLIED BUTYL CAULK AT VERTICAL JOINT, $\frac{3}{8}$ " CONTINUOUS BEAD

SECTION AT SILL

INSULATED WALL PANEL
PRE-DRILLING WILL BE REQUIRED FOR POP RIVETS

PANEL THICKNESS	THROUGH FASTENER	HIDDEN FASTENER
2"	#14 X 3 SDPH	#14 X 2 SDHH
2 1/2"	#14 X 4 SDPH	#14 X 3 SDHH
3"	#14 X 4 SDPH	#14 X 3 SDHH
4"	#14 X 5 SDPH	#14 X 4 SDHH



SECTION AT HEADER

INSULATED WALL PANELS
PRE-DRILLING WILL BE REQUIRED FOR POP RIVETS

STRUCTURAL FASTENING AT PANEL HIDDEN JOINT		
PANEL THICKNESS	HIDDEN FASTENER	WASHER
2"	#14 X 2 SDHH	WC-01
2 1/2"	#14 X 3 SDHH	
3"	#14 X 3 SDHH	
4"	#14 X 4 SDHH	

STRUCTURAL FASTENER AT PANEL FACE	
PANEL THICKNESS	THROUGH FASTENER
2"	#14 X 3 SDPH
2 1/2"	#14 X 4 SDPH
3"	#14 X 4 SDPH
4"	#14 X 5 SDPH

NOTE: THE USE OF A CENTER PUNCH TO SLIGHTLY DIMPLE THE PANEL FACE PRIOR TO INSTALLING THROUGH FASTENERS IS RECOMMENDED TO PREVENT "WALKING" OF THE FASTENERS. EXCESSIVE DAMAGE TO THE PANEL FINISH CAUSED DURING INSTALLATION MAY VOID THE PANEL FINISH WARRANTY.

STANDARD FASTENER SCHEDULE FOR INSULATED WALL PANEL

INSULATED WALL PANELS

PLEASE REFER TO
THE ROOF AND
WALL SHEETING
ERECTION
MANUALS FOR
FURTHER
ASSEMBLY
INSTRUCTIONS.

EMNOTE

Sheetin

JOB NUMBER
U15S0716A

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