KIRBY BUILDING SYSTEMS

A NUCOR Company

124 KIRBY DRIVE, PORTLAND, TN 37148

METAL BUILDING MANUFACTURERS ASSOCIATION
MEMBER

ACCREDITED
AC 472

JOB NUMBER:	K18K0011A
BUYER:	J HERBERT CONSTRUCTION
PROJECT:	COLUMBUS McKINNON
LOCATION:	SALEM, OH

TABLE OF CONTENTS

GENERAL NOTES:

1. MATERIALS

	ASTM DESCRIPTION
STRUCTURAL STEEL PLATE	A529 / A572 / A1011
HOT ROLLED MILL SHAPES	A36 / A529 / A572 / A500
COLD FORM SHAPES	A653 / A1011

	ASTM DESCRIPTION
ROOF AND WALL SHEETING	A653 / A792
BOLTS	A307 / A325
CABLE	A475
RODS	A572 / A108

2. A325 & A490 BOLT TIGHTENING REQUIREMENTS
BOLTED JOINTS SHALL BE CONNECTED AND INSPECTED IN ACCORDANCE WITH THE "RESEARCH COUNCIL ON STRUCTURAL CONNECTIONS SPECIFICATION FOR STRUCTURAL JOINTS USING HIGH-STRENGTH BOLTS" UNLESS NOTED OTHERWISE ON THE KBS ERECTION DRAWINGS, ALL A490 BOLTS SHALL BE PRE-TENSIONED AND ALL A325 BOLTS IN SECONDARY MEMBERS (PURLINS, GIRTS, FRAMED OPENINGS, ETC.), AND ALL FRANGE BRACES MUST BE SNUG TIGHT. PRIMARY FRAMING (RIGID FRAMING AND BRACING) MUST BE SNUG TIGHT EXCEPT AS FOLLOWS:

I. BUILDING SUPPORTS A CRANE SYSTEM WITH A CAPACITY GREATER THAN 5 TONS.
II. BUILDING SUPPORTS MACHINERY THAT CREATES VIBRATION, IMPACT OR STRESS-REVERSALS ON THE CONNECTIONS THE ENGINEER-OF-RECORD FOR THE PROJECTSHOULD BE CONSULTED TO EVALUATE FOR THIS CONDITION.
III. THE PROJECT SITE IS LOCATED IN A HIGH SEISMIC AREA. FOR IBC BASED CODES, "HIGH SEISMIC AREA" IS DEFINED AS A SEISMIC DESIGN CATEGORY OF D, E OR F.
IV. ANY CONNECTION DESIGNATED IN THESE DRAWINGS AS A SLIP-CRITICAL CONNECTION MUST BE FREE OF PAINT, OIL, OR OTHER MATERIALS THAT REDUCE FRICTION AT CONTACT SURFACES. GALVANIZED OR LIGHTLY RUSTED SURFACES ARE ACCEPTABLE.

3. STRUCTURAL SHOP COAT PAINT
THE COAT OF SHOP PRIMER IS INTENDED TO PROTECT THE STEEL FRAMING FOR ONLY A SHORT PERIOD OF EXPOSURE TO ATMOSPHERIC CONDITIONS. SHOP COAT PRIMER DOES NOT PROVIDE THE APPEARANCE, DURABILITY AND/OR PROTECTION OF AN APPROPRIATE FIELD APPLIED FINISH. KIRBY STANDARD SHOP COAT PAINT SHALL MEET OR EXCEED THE REQUIREMENTS OF FEDERAL SPECIFICATION TTP-636.

4. TEMPORARY PANEL STORAGE
PAINTED BUILDING PANELS WITH FLUOROPOLYMER FINISH ARE HIGH-QUALITY CONSTRUCTION MATERIALS. WHILE IN THE BUNDLE, PANELS SHOULD BE PROTECTED FROM HIGH TEMPERATURE, HUMIDITY AND MOISTURE, OTHERWISE, DAMAGE CAN OCCUR TO THE PAINTED SURFACE OF THE PANEL. PLEASE REFER TO THE "WARNING LABEL" THAT KIRBY APPLIES TO EACH BUNDLE OF FLUOROPOLYMER FINISHED PANELS FOR PROPER STORAGE PROCEDURES.

5. TEMPORARY BRACING
BUILDER/CUSTOMER SHALL SPECIFICALLY NOTE THAT BRACING FURNISHED BY KIRBY IS INTENDED TO BE USED FOR THE COMPLETED BUILDING; KIRBY DOES NOT REPRESENT OR GUARANTEE THAT THE BRACING WILL BE ADEQUATE AS TEMPORARY BRACING DURING ERECTION OF THE BUILDING.

6. PANEL HANDLING
METAL BUILDING PANELS ARE WAXED OR OILED FOR FINISH PROTECTION DURING SHIPPING AND STORAGE. THE WAX OR OIL MAKES THE PANELS SLIPPERY AND HAZARDOUS TO WALK ON OR STAND ON. THE WAX OR OIL CAN BUILD UP ON SHOES, GLOVES, AND CLOTHING MAKING CLIMBING OR WALKING ON OTHER COMPONENTS HAZARDOUS.

7. ERECTION NOTES
THE BUILDING MUST BE ERECTED ACCORDING TO THE FRAMING PLANS, STANDARD DETAILS, SPECIAL DETAILS, AND NOTES TO ASSURE COMPLIANCE WITH DESIGN LOADS AND BUILDING CODE REQUIREMENTS. FIELD MODIFICATION OF THE BUILDINGS OR BUILDING COMPONENTS WHICH WILL AFFECT THE STRUCTURAL INTEGRITY OF THE BUILDING WILL NOT BE ALLOWED WITHOUT PRIOR APPROVAL BY AN AUTHORIZED REPRESENTATIVE OF KIRBY BUILDING SYSTEMS.

8. WELDING SPECIFICATIONS
ALL SHOP WELDS ON MATERIALS GREATER THAN OR EQUAL TO 0.125" IN THICKNESS WERE PRODUCED IN ACCORDANCE WITHIN THE 2010 AWS D1.1 STRUCTURAL WELDING CODE - STEEL. THE REMAINING WELDS ON OTHER THINNER MATERIALS WERE PRODUCED IN ACCORDANCE WITH THE 2008 AWS D1.3 STRUCTURAL WELDING CODE - SHEET STEEL. ALL WELDING WAS PERFORMED BY AWS CERTIFIED WELDERS.

9. BUILDING MAINTENANCE MANUAL
AVAILABLE AT http://www.kirbybuildingsystems.com/for_metal_building_systems_builders.asp

BUILDING LOADS / DESCRIPTION:

CERTIFICATION EXTENDS ONLY FOR THE LOADS SPECIFIED ON KIRBY'S PURCHASE ORDER TO THE STRUCTURAL COMPONENTS OF THE BUILDING DESIGNED AND SUPPLIED BY KIRBY BUILDING SYSTEMS, INC., IF ERECTED AS INDICATED. NOTE THAT KIRBY'S ENGINEER IS NOT ENGINEER OF RECORD FOR THIS CONSTRUCTION PROJECT. DESIGN LOADS HAVE BEEN APPLIED IN ACCORDANCE WITH THE FOLLOWING.

THIS STRUCTURE IS DESIGNED UTILIZING THE LOADS INDICATED AND APPLIED AS REQUIRED BY : OHIO BUILDING CODE 2017

THE CONTRACTOR IS TO CONFIRM THAT THESE LOADS COMPLY WITH THE REQUIREMENTS OF THE LOCAL BUILDING DEPARTMENT.

* ROOF DEAD LOAD: 2.50 PSF (ROOF PANELS & PURLINS)
*** RISK CATEGORY: II - Normal
COLLATERAL LOAD: 3.00 PSF
GROUND SNOW LOAD: 25.00 PSF Is: 1.00 Ct: 1.00 Ce: 1.00
ROOF SNOW LOAD: 17.50 PSF ** MINIMUM SNOW LOAD: 20.00 PSF
RAIN ON SNOW SURCHARGE: N/A PSF RAIN W/ SNOW (IF REQ'D) N/A PSF
ROOF LIVE LOAD: 20.00 PSF TRIBUTARY REDUCTION Yes
FRAME LIVE LOAD: 12.00 PSF
ULTIMATE WIND SPEED V_{ult}: 115 MPH EXPOSURE: C Iw: 1.00 KZT: 1.00 GCpi: +/-0.18
NOMINAL WIND SPEED V_{asd}: 89 MPH COMPONENTS & CLADDING: + 31 PSF, - 41 PSF
SEISMIC CRITERIA: Ss: 0.14 S1: 0.05 SDS: 0.15 SD1: 0.09
SEISMIC USE GROUP: SITE CLASS: D Ie: 1.00
SEISMIC DESIGN CATEGORY: B
ANALYSIS PROCEDURE: EQUIVALENT LATERAL FORCE PROCEDURE
STRUCTURAL SYSTEM: NOT DETAILED FOR SEISMIC
LATERAL DIRECTION - BASE SHEAR: 5.16 KIPS R:3.00 CS: 0.51
LONGITUDINAL DIRECTION - BASE SHEAR: 1.53 KIPS R:3.00 CS: 0.51

THIS BUILDING IS DESIGNED AS AN ENCLOSED STRUCTURE. ALL EXTERIOR COMPONENTS (DOORS, WINDOWS, ETC.) MUST BE DESIGNED TO WITHSTAND THE WIND LOADINGS SPECIFIED FOR THE DESIGN OF COMPONENTS AND CLADDING IN THE DESIGN CODE LISTED ABOVE. ALL EXTERIOR COMPONENTS (WINDOWS, DOORS, ETC) MUST MEET WIND LOADING REQUIREMENTS FOR THE BUILDING CODE LISTED ABOVE OR MUST BE ADEQUATELY PROTECTED DURING A HIGH WIND EVENT. ALL GLAZING AND OTHER APPLICABLE OPENINGS IN WINDBORNE DEBRIS REGIONS MUST BE IMPACT-RESISTANT OR PROTECTED WITH AN IMPACT-RESISTANT COVERING. IMPACT RESISTANT MATERIALS MUST MEET THE LARGE AND/OR SMALL MISSILE TEST OF ASTM E 1996 AND ASTM E 1886.

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.

* DEAD LOAD: NORMAL WEIGHT OF METAL BUILDING COMPONENTS AS SUPPLIED BY THE MANUFACTURER

** MINIMUM SNOW LOAD IS BASED ON THE MINIMUM ROOF SNOW LOAD CALCULATED PER BUILDING CODE OR THE CONTRACT-SPECIFIED ROOF SNOW LOAD, WHICHEVER IS GREATER. THIS VALUE FOR THE MINIMUM SNOW LOAD IS ONLY APPLIED IN COMBINATION WITH DEAD AND COLLATERAL LOADS. ROOF SNOW IN OTHER LOADING CONDITIONS IS DETERMINED PER THE SPECIFIC BUILDING CODE.

*** FOR OCCUPANCY CATEGORY I OR II BUILDINGS, IBC ALLOWS FOR SINGLE STORY BUILDINGS TO HAVE NO LIMIT FOR SEISMIC STORY DRIFT. PLEASE NOTE THAT ANY INTERIOR WALLS, PARTITIONS, CEILINGS, AND EXTERIOR WALLS SHOULD BE DETAILED (BY OTHERS) TO ACCOMMODATE THIS STORY DRIFT.

PRIMER:
STRUCTURAL FRAMING: RP - STANDARD RED PRIMER
WALL SECONDARY: RP - STANDARD RED PRIMER
ROOF SECONDARY: RP - STANDARD RED PRIMER

ROOF PANELS:
TYPE: 24 Ga. KIRBYLOK MECHANICAL (KLM)
UL90 RATED
COLOR: ZINC-ALUMINUM (ZA)

WALL PANELS:
TYPE: 26 Ga. KIRBY WALL (KW1)
COLOR: POLAR WHITE - SP (PW)

NOTE: ANY VARIANCE FROM THE PANEL TYPES OR COLORS LISTED HERE WILL BE NOTED ON THE ELEVATION DRAWINGS.

TRIM COLORS:
ROOF LINE TRIM: POLAR WHITE - SP (PW)
DOWNSPOUTS: POLAR WHITE - SP (PW)
WALL CORNER TRIM: POLAR WHITE - SP (PW)
BASE TRIM: POLAR WHITE - SP (PW)
FRAMED OPENING TRIM: POLAR WHITE - SP (PW)

ENGINEER NOTES:

KBS NOT RESPONSIBLE FOR STRUCTURAL INTEGRITY OF EXISTING BUILDING. KBS NOT RESPONSIBLE FOR LOADS IMPOSED ON EXISTING STRUCTURE DUE TO NEW BUILDING.

FOR CONSTRUCTION

STATE OF OHIO
HAROLD WAYNE GREGORY
E-58672
REGISTERED
PROFESSIONAL ENGINEER
7/2018

STANDING SEAM ROOF SYSTEMS
INSULATION & FASTENER RECOMMENDATIONS

INSULATION / FASTENERS	KLS/KLM "LOW SYSTEM"	KLS/KLM "HIGH SYSTEM"	KLM W/ 5" Tall Clip	RL/RL+ "LOW SYSTEM"	RL/RL+ "HIGH SYSTEM"
NO INSULATION THERMAL BLOCK FASTENER	OK 3/8" SYB05A FD26CP	N/R	N/R	OK 3/8" SYB11 FA07 CP	N/R
R10 THERMAL BLOCK FASTENER	OK NONE FD26CP	OK 1" SYB09 FD26CP	N/R	OK NONE FA07CP	OK 5/8" SYB12 FA07CP
R11 THERMAL BLOCK FASTENER	OK NONE FD26CP	OK 1" SYB09 FD26CP	N/R	OK NONE FA07CP	OK 5/8" SYB12 FA07CP
R13 THERMAL BLOCK FASTENER	OK NONE FD26CP	OK 1" SYB09 FD26CP	N/R	OK NONE FA07CP	OK 5/8" SYB12 FA07CP
R16 THERMAL BLOCK FASTENER	OK* NONE FD29CP	OK 3/4" SYB07 FD29CP	N/R	N/R	OK 3/8" SYB11 FC09CP
R19 THERMAL BLOCK FASTENER	OK* NONE FD29CP	OK 3/4" SYB07 FD29CP	N/R	N/R	OK 3/8" SYB11 FC09CP
R25 THERMAL BLOCK FASTENER	N/R	OK 3/4" SYB07 FD29CP	N/R	N/R	N/R
R30 THERMAL BLOCK FASTENER	N/R	N/R	OK 1" SYB05C FD29CP	N/R	N/R

REFERENCE NOTES
- OK - Kirby approved application
- OK* - Kirby application conditionally approved. Application requires extra effort during erection to hold panel coverage and may induce oil canning or pillowing. **(REQUIRES DISCLAIMER)**
- N/R - Not Recommended due to aesthetic issues or difficulty of installation. **(REQUIRES MANAGEMENT APPROVAL)**

FASTENERS
- FD26CP ¼ - 14 x 1¼ TEK2 w/ WASHER (CADMIUM PLATED)
- FD29CP ¼ - 14 x 1½ TEK2 w/ WASHER (CADMIUM PLATED)
- FA07CP 12 - 14 x 1¼ HWH BLAZER DP2, NO WASHER (CADMIUM PLATED)
- FC09CP 12 - 14 x 1¼ HWH BLAZER DP2, NO WASHER (CADMIUM PLATED)

Nominal Insulation Thicknesses
- R10 – 3.25" (range of 2.95" to 3.4")
- R11 – 3.5" (range of 3.3" to 3.75")
- R13 – 4.25" (range of 3.85" to 4.375")
- R16 – 5" (range of 5.0" to 5.30")
- R19 – 6.25" (range of 5.6 " to 6.375")
- R25 – 8" (range of 7.5" to 8.0")
- R30 – 9.25" (range of 8.7" to 9.50")

THRU-FASTENED ROOF & WALL SYSTEMS
INSULATION & FASTENER RECOMMENDATIONS

INSULATION / FASTENERS	KIRBY RIB ROOF PANEL	KR, KW & KRP WALL PANELS
NO INSULATION FASTENER	OK FA01	OK FA07
R10, R11 FASTENER	OK FA01	OK FA07
R13, R16 FASTENER	OK FA01	OK FC08
R19 FASTENER	OK* FA02	OK* FC08
R19 THERMAL BLOCK FASTENER	OK* 1" SYB08 FA14	N/R

REFERENCE NOTES:
Insulation thicknesses are nominal

OK - Kirby approved application

OK* - Kirby application conditionally approved. Application requires extra effort during erection to hold panel coverage and may induce oil canning, dimpling or pillowing. **(REQUIRES DISCLAIMER)**

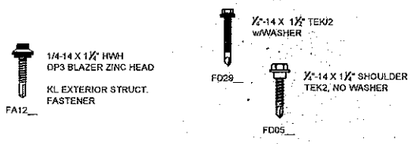
N/R - Not Recommended due to aesthetic issuesor difficulty of installation. **(REQUIRES MANAGEMENT APPROVAL)**

FASTENERS
- FA01 12 - 14 x 1¼" HWH DP2 BLAZER ZINC HEAD
- FA02 12 - 14 x 1½" HWH DP2 BLAZER ZINC HEAD
- FA07 12 - 14 x 1¼" HWH BLAZER DP2, NO WASHER
- FC08 12 - 14 x 1½" HWH BLAZER FLANGE DP3
- FA14 12 - 14 x 2" HWH DP2 BLAZER ZINC HEAD

Nominal Insulation Thicknesses
- R10 – 3.25" (range of 2.95" to 3.4")
- R11 – 3.5" (range of 3.3" to 3.75")
- R13 – 4.25" (range of 3.85" to 4.375")
- R16 – 5" (range of 5.0" to 5.30")
- R19 – 6.25" (range of 5.6 " to 6.375")
- R25 – 8" (range of 7.5" to 8.0")
- R30 – 9.25" (range of 8.7" to 9.50")

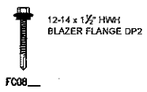
FASTENER REQUIREMENTS

ROOF MEMBER FASTENERS

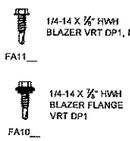


ROOF STITCH/TRIM FASTENERS

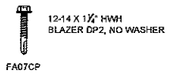
WALL MEMBER FASTENERS



WALL STITCH/TRIM FASTENERS

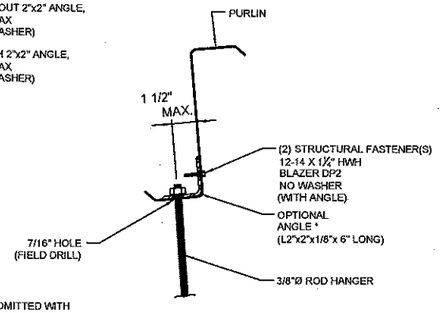


MISCELLANEOUS FASTENERS



50# CAPACITY WITHOUT 2"x2" ANGLE, ROOF SLOPE 1:12 MAX (WITHOUT BEVEL WASHER)

200# CAPACITY WITH 2"x2" ANGLE, ROOF SLOPE 1:12 MAX (WITHOUT BEVEL WASHER)



* ANGLE MAY BE OMITTED WITH HANGER LOADS 50 LBS. OR LESS.

NOTE:
PURLIN LIP MUST NOT BE DISTORTED.

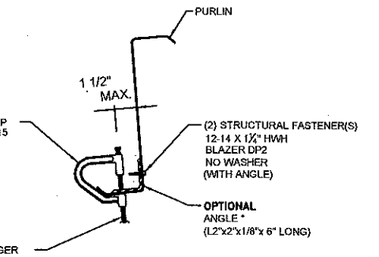
NOTE:
USE OF THIS DETAIL WILL REQUIRE THE ROD HANGER TO BE BENT AFTER INSTALLATION SO THAT IT HANGS VERTICALLY. THE METAL BUILDING SUPPLIER IS NOT RESPONSIBLE FOR THE DESIGN OR ADEQUACY OF THE BENT ROD HANGER.

HANGER DETAIL AT PURLINS

250# CAPACITY WITHOUT 2"x2" ANGLE, ROOF SLOPE LESS THAN OR EQUAL TO 4:12

500# CAPACITY WITH 2"x2" ANGLE, ROOF SLOPE LESS THAN OR EQUAL TO 4:12

250# CAPACITY WITH 2"x2"ANGLE, ROOF SLOPE GREATER THAN 4:12, BUT LESS THAN 8:12



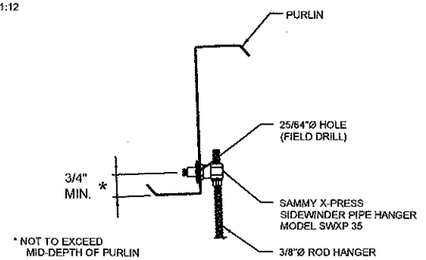
NOTE:
USE OF THIS DETAIL WILL REQUIRE THE ROD HANGER TO BE BENT AFTER INSTALLATION SO THAT IT HANGS VERTICALLY. THE METAL BUILDING SUPPLIER IS NOT RESPONSIBLE FOR THE DESIGN OR ADEQUACY OF THE BENT ROD HANGER.

* ANGLE MAY BE OMITTED WITH HANGER LOADS 250 LBS. OR LESS EXCEPT THAT ANGLE IS REQUIRED WITH SLOPE GREATER THAN 4:12, BUT LESS THAN 8:12.

NOTE:
PURLIN LIP MUST NOT BE DISTORTED.

HANGER DETAIL AT PURLINS
PURLIN CLAMP

500# CAPACITY
ROOF SLOPE LESS THAN OR EQUAL TO 1:12



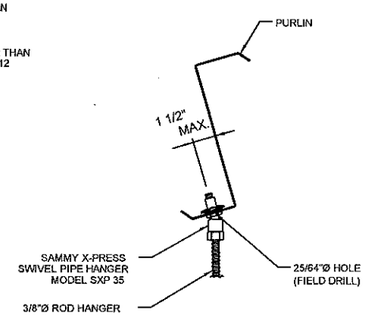
* NOT TO EXCEED MID-DEPTH OF PURLIN

NOTE:
USE OF THIS DETAIL WILL REQUIRE THE ROD HANGER TO BE BENT AFTER INSTALLATION SO THAT IT HANGS VERTICALLY. THE METAL BUILDING SUPPLIER IS NOT RESPONSIBLE FOR THE DESIGN OR ADEQUACY OF THE BENT ROD HANGER.

HANGER DETAIL AT PURLINS
ROOF SLOPES LESS THAN OR EQUAL TO 1:12

375# CAPACITY
ROOF SLOPE LESS THAN OR EQUAL TO 4:12

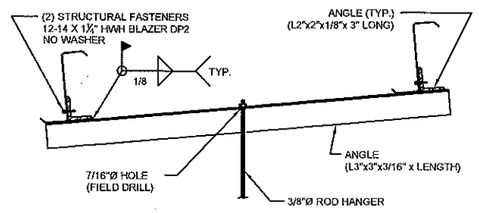
250# CAPACITY
ROOF SLOPE GREATER THAN 4:12, BUT LESS THAN 8:12



NOTE:
PURLIN LIP MUST NOT BE DISTORTED.

HANGER DETAIL AT PURLINS
ROOF SLOPES LESS THAN 8:12

400# CAPACITY PROVIDED ROD HANGER IS WITHIN CENTER ONE-THIRD OF 3"x3"ANGLE SPAN (200# CAPACITY OTHERWISE)



NOTE: FIELD WELDING REQUIRED.

NOTE: USE OF THIS DETAIL WILL REQUIRE THE ROD HANGER TO BE BENT AFTER INSTALLATION SO THAT IT HANGS VERTICALLY. THE METAL BUILDING SUPPLIER IS NOT RESPONSIBLE FOR THE DESIGN OR ADEQUACY OF THE BENT ROD HANGER.

HANGER DETAIL BETWEEN PURLINS

NOTE:
HANGER DETAILS ARE A SUGGESTED MEANS OF ATTACHMENT ONLY. KBS IS NOT THE SUPPLIER OF HARDWARE OR HANGER RODS.

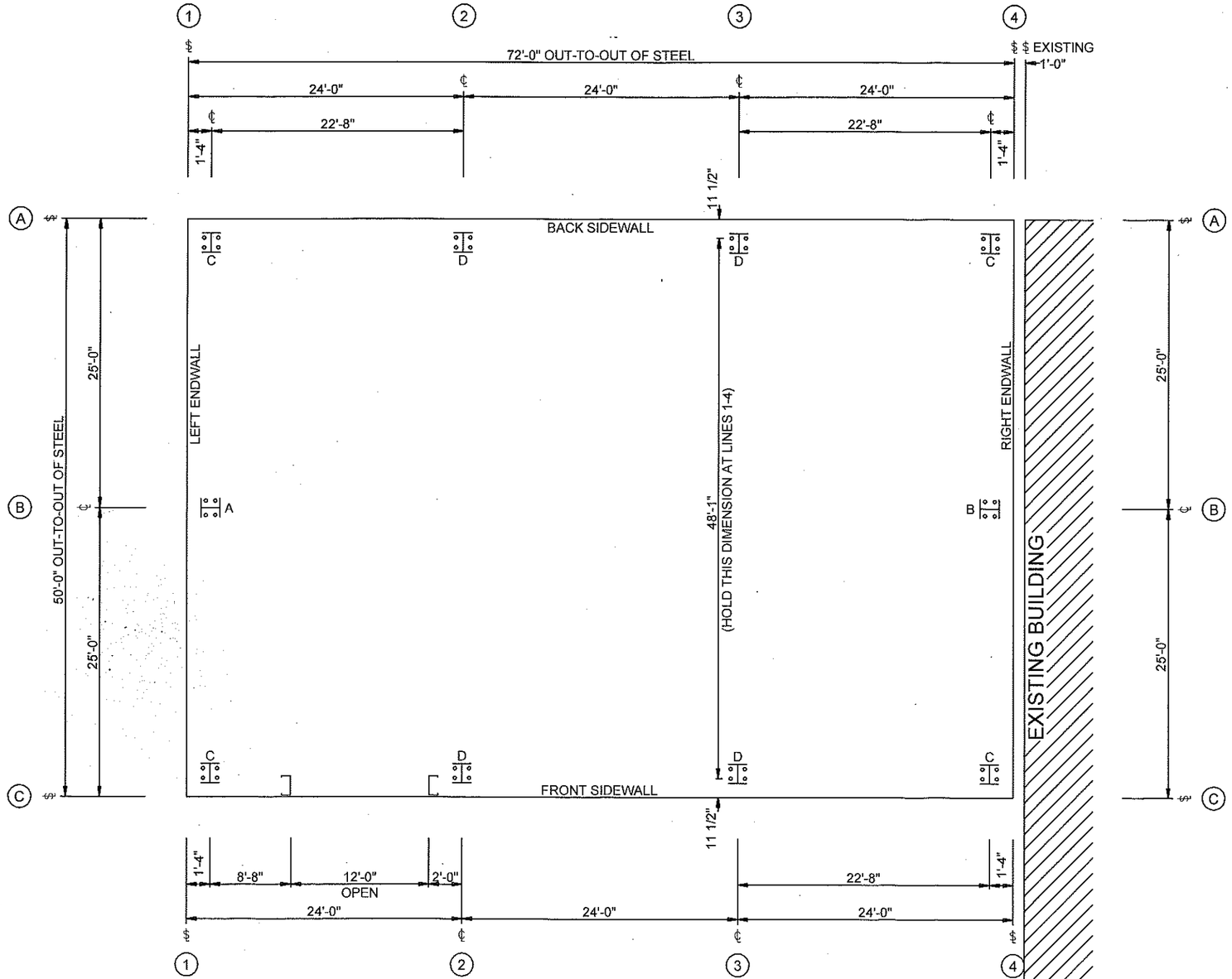
NOTE:
ALL CAPACITIES THAT ARE SHOWN ON THIS DRAWING ARE MAXIMUM HANGER LOADS FOR THESE DETAILS ONLY. THE PURLINS MAY OR MAY NOT BE DESIGNED FOR THE REQUIRED HANGER LOADS. CONTACT KIRBY BUILDING SYSTEMS FOR SUSPENDED LOADS THAT EXCEED THE DESIGN COLLATERAL LOAD SPECIFIED FOR THIS PROJECT.

FOR CONSTRUCTION

ISSUE	DESCRIPTION	BY	DATE
P	PERMIT	JY	01/23/18
0	CONSTRUCTION	CRP	02/12/18

KIRBY BUILDING SYSTEMS

TITLE:	FASTENER CHART	DRN.BY:	CRP
BUYER:	J HERBERT CONSTRUCTION	DATE:	02/12/18
PROJECT:	COLUMBUS McKINNON	CKD.BY:	KAB
LOCATION:	SALEM, OH	DATE:	2-19-18
JOB NO:	K18K0011A	DWG.NO:	C1



ANCHOR BOLT PLAN

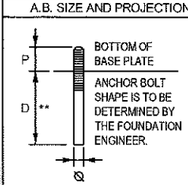
NOTE: ALL BASE PLATES @ 100'-0" (U.N.)
FINISHED FLOOR @ 100'-0"
⚠1 ADDED CRANE COLUMN BASE DETAIL (SEE E2)

FOR CONSTRUCTION

GENERAL NOTES:
1. ALL DIMENSIONS ARE OUT TO OUT OF STEEL. IF CONCRETE NOTCH IS REQUIRED, THEN THE APPROPRIATE DIMENSIONS SHOULD BE ADDED TO OBTAIN THE OUT TO OUT OF CONCRETE DIMENSIONS.
2. CONCRETE STRENGTH = 3000 PSI MINIMUM.
3. ANCHOR BOLTS ARE NOT FURNISHED BY THE MANUFACTURER.
4. DRAWINGS ARE NOT TO SCALE.

DESIGN ENGINEER: MDH
DATE: 2/26/18

A.B. SIZE AND PROJECTION



ANCHOR BOLT QUANTITY		ALLOW. LOAD TO BOLTS (LBS.)	PROJECTION P (IN.)	MIN. EMBED D (IN.)
QTY.	BOLT DIA.			
AS REQ'D	1/2"			
40	3/4"	8400	2-1/2"	**
	1"	15,000	3"	**
	1-1/4"	23,400	3-1/2"	**
	1-1/2"	33,700	3-1/2"	**

BOLT MATERIAL = ASTM A36

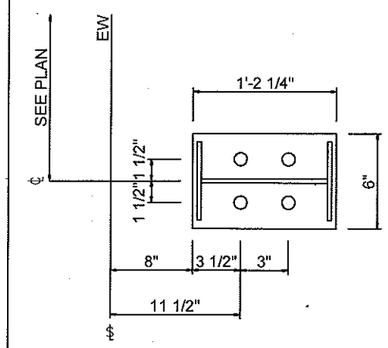
** ANCHOR BOLT EMBEDMENT LENGTH "D" IS TO BE DETERMINED BY THE FOUNDATION ENGINEER

ISSUE	DESCRIPTION	BY	DATE
0	CONSTRUCTION	JY/KCM	01/16/18
⚠1	CONSTRUCTION	JY/KCM	01/23/18

KIRBY BUILDING SYSTEMS

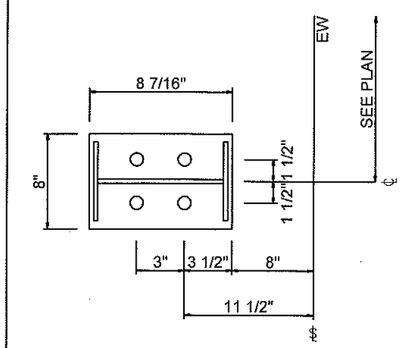
TITLE:	ANCHOR BOLT PLAN	DRN.BY:	
BUYER:	J HERBERT CONSTRUCTION	DATE:	
PROJECT:	COLUMBUS McKINNON	CKD.BY:	
LOCATION:	SALEM, OH	DATE:	
JOB NO:	K18K0011A	DWG.NO:	E1 OF: 16

DIA = 3/4"



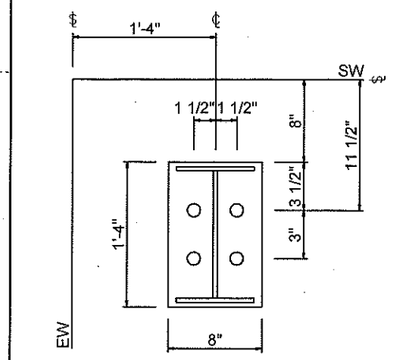
DETAIL A

DIA = 3/4"



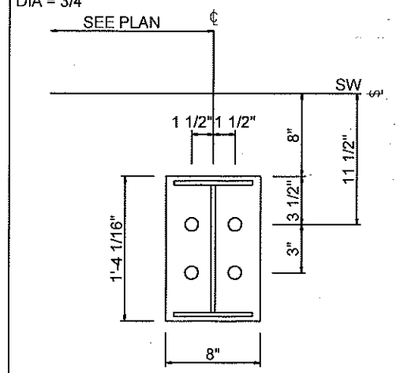
DETAIL B

DIA = 3/4"



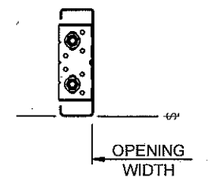
DETAIL C

DIA = 3/4"



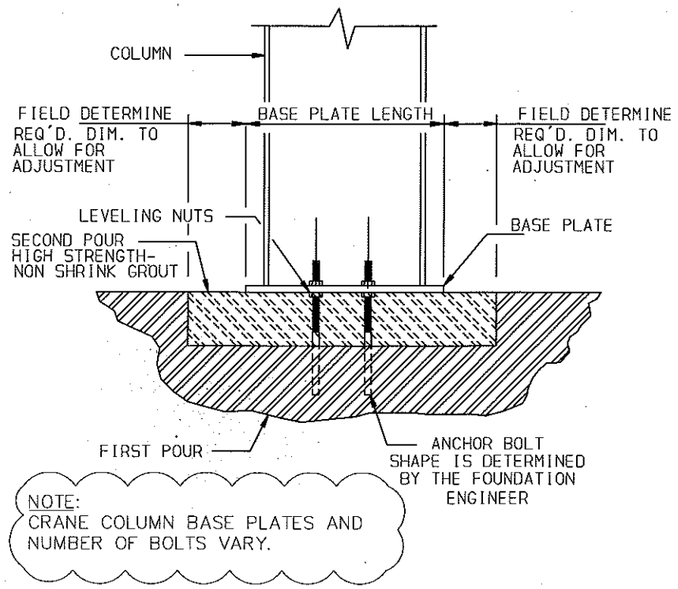
DETAIL D

DIA = 1/2"



(2) 1/2" Ø ANCHOR BOLTS
FIELD DRILL AS REQUIRED

DETAIL E



NOTE:
CRANE COLUMN BASE PLATES AND NUMBER OF BOLTS VARY.

NOTE:
ALL CRANE COLUMNS TO SIT ON LEVELING NUTS. INITIAL LEVELING NUT ELEVATION (TOP OF NUT) TO BE AT COLUMN BASE ELEVATION SHOWN ON PLAN. ALLOW LEVELING NUT TO BE ADJUSTED UP OR DOWN. AFTER FINAL ADJUSTMENT OF LEVELING NUT BUILDER TO USE HIGH STRENGTH NON-SHRINK GROUT TO FILL ALL VOIDS BENEATH BASE PLATE.

KBS RECOMMENDED COLUMN BASE DETAIL FOR CRANE BUILDINGS

AB998

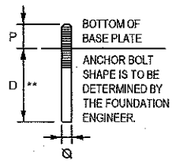
⚠1 ADDED CRANE COLUMN BASE DETAIL

FOR CONSTRUCTION

GENERAL NOTES:
1. ALL DIMENSIONS ARE OUT TO OUT OF STEEL. IF CONCRETE NOTCH IS REQUIRED, THEN THE APPROPRIATE DIMENSIONS SHOULD BE ADDED TO OBTAIN THE OUT TO OUT OF CONCRETE DIMENSIONS.
2. CONCRETE STRENGTH = 3000 PSI MINIMUM.
3. ANCHOR BOLTS ARE NOT FURNISHED BY THE MANUFACTURER.
4. DRAWINGS ARE NOT TO SCALE.

DESIGN ENGINEER:
DATE:

A.B. SIZE AND PROJECTION



ANCHOR BOLT QUANTITY		ALLOW. LOAD TO BOLTS (LBS.)	PROJECTION P (IN.)	MIN. EMBED D (IN.)
QTY.	BOLT DIA.			
AS REQ'D	1/2"			
40	3/4"	8400	2-1/2"	**
	1"	15,000	3"	**
	1-1/4"	23,400	3-1/2"	**
	1-1/2"	33,700	3-1/2"	**

BOLT MATERIAL = ASTM A36

** ANCHOR BOLT EMBEDMENT LENGTH "D" IS TO BE DETERMINED BY THE FOUNDATION ENGINEER

ISSUE	DESCRIPTION	BY	DATE
0	CONSTRUCTION	JY/KCM	01/16/18
⚠1	CONSTRUCTION	JY/KCM	01/23/18

KIRBY BUILDING SYSTEMS

TITLE:	ANCHOR BOLT BASE DETAILS	DRN.BY:
BUYER:	J HERBERT CONSTRUCTION	DATE:
PROJECT:	COLUMBUS McKINNON	CKD.BY:
LOCATION:	SALEM, OH	DATE:
JOB NO:	K18K0011A	DWG.NO: E2 OF: 16

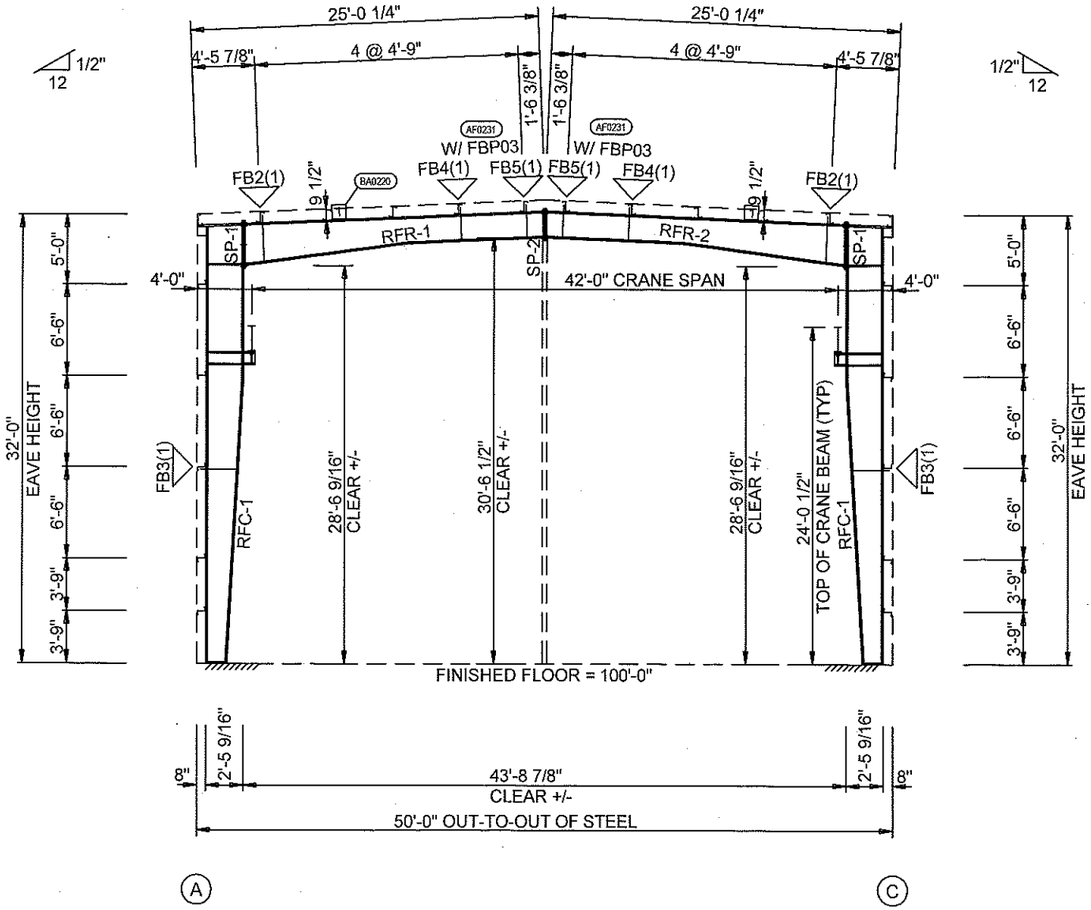
SPLICE PLATE & BOLT TABLE									
Mark	Qty Top	Bot	Int	Type	Dia	Length	Width	Thick	Length
SP-1	4	4	2	A325	3/4"	3"	8"	3/8"	3'-4 5/16"
SP-2	4	4	0	A325	3/4"	3"	6"	3/8"	2'-3 3/16"

STIFFENER TABLE				
Mark	Stiff Mark	Plate Size Width	Thick	Length
RFC-1	St- 1	4.125	0.250	4.000
RFC-1	St- 2	4.000	0.250	28.88
RFC-1	St- 3	4.000	0.250	28.88
RFC-1	St- 4	4.000	0.250	28.88
RFC-1	St- 4	4.000	0.250	28.88
RFC-1	St- 3	4.000	0.250	28.88
RFC-1	St- 2	4.000	0.250	28.88
RFC-1	St- 1	4.125	0.250	4.000

▽FLANGE BRACES: (1) One Side; (2) Two Sides
FBxxx(1)

MEMBER TABLE						
Mark	Weight	Web Depth Start/End	Web Plate Thick	Web Plate Length	Outside Flange W x Thk x Length	Inside Flange W x Thk x Length
RFC-1	1201	15.0/29.0	0.188	240.0	8 x 1/4" x 374.2	8 x 5/16" x 240.4
		29.0/29.0	0.250	135.4	8 x 1/4" x 37.0	8 x 5/16" x 98.7
RFR-1	505	33.0/20.0	0.164	143.2	6 x 3/16" x 261.8	6 x 1/4" x 143.8
		20.0/20.0	0.135	120.0		6 x 3/16" x 119.2
RFR-2	507	20.0/20.0	0.135	120.0	6 x 3/16" x 261.8	6 x 3/16" x 119.2
		20.0/33.0	0.164	143.2		6 x 1/4" x 143.8
RFC-1	1199	29.0/29.0	0.250	135.4	8 x 1/4" x 37.0	8 x 5/16" x 98.7
		29.0/15.0	0.188	240.0	8 x 1/4" x 374.2	8 x 5/16" x 240.4

CONNECTION PLATES	
☐ ID	Mark/Part
1	RBR09



RIGID FRAME CROSS SECTION: LINE(S) 1

NOTE: FRAME IS NOT EXPANDABLE.

FOR CONSTRUCTION

CERTIFICATION EXTENDS ONLY FOR THE LOADS SPECIFIED ON KIRBY'S PURCHASE ORDER AS APPLIED TO THE STRUCTURAL COMPONENTS OF THE BUILDING DESIGNED AND SUPPLIED BY KIRBY BUILDING SYSTEMS, IF ERECTED AS INDICATED. NOTE THAT KIRBY'S ENGINEER IS NOT ACTING AS THE ENGINEER OF RECORD FOR THIS CONSTRUCTION PROJECT.

GENERAL NOTES:
1. REFERENCE ELEVATION = 100'-0".
2. ALL BASE PLATES ARE AT REFERENCE ELEVATION UNLESS NOTED.
3. SEE ANCHOR BOLT PLAN FOR ANCHOR BOLT SIZES AND DETAILS.
4. FLANGE BRACES ARE REQUIRED ON TWO SIDES (2) OR ONE SIDE (1) AS NOTED.
5. ALL MAIN FRAME CONNECTION BOLTS ARE A325 BOLTS UNLESS NOTED.
6. FOR FLANGE BRACE CONNECTIONS AT COLUMNS OR RAFTERS SEE DETAIL AG0011 (UNLESS OTHERWISE NOTED).
7. FLANGE BRACE LOCATIONS AT EXPANDABLE END FRAMES, IF (2) ARE REQUIRED: ONE FLANGE BRACE IS TO BE INSTALLED AT THE TIME OF ERECTION, WHILE THE OTHER IS TO BE STORED AND USED AT THE TIME OF A FUTURE ADDITION.
8. ALL CONNECTION BOLTS OR FIELD WELDS, PURLINS AND ALL FLANGE BRACES MUST BE PROPERLY INSTALLED ON MAIN FRAMES AS THEY ARE ERECTED AND BEFORE ERECTION LOADS ARE APPLIED.
9. DRAWINGS MAY NOT BE TO SCALE.

DETAIL KEY
DETAIL NAME → AG0081 ← E7 EXAMPLE PAGE CALLOUT
IF NO PAGE IS CALLED OUT, SEE 0-PAGES AT END OF DRAWING SET.

ISSUE	DESCRIPTION	BY	DATE
P	PERMIT	JY	01/23/18
0	CONSTRUCTION	CRP	02/12/18

KIRBY BUILDING SYSTEMS

TITLE:	CROSS SECTION: LINE(S) 1	DRN.BY:	CRP
BUYER:	J HERBERT CONSTRUCTION	DATE:	02/12/18
PROJECT:	COLUMBUS McKINNON	CKD.BY:	KAYD
LOCATION:	SALEM, OH	DATE:	2-19-18
JOB NO:	K18K0011A	DWG.NO:	E3 OF: 16

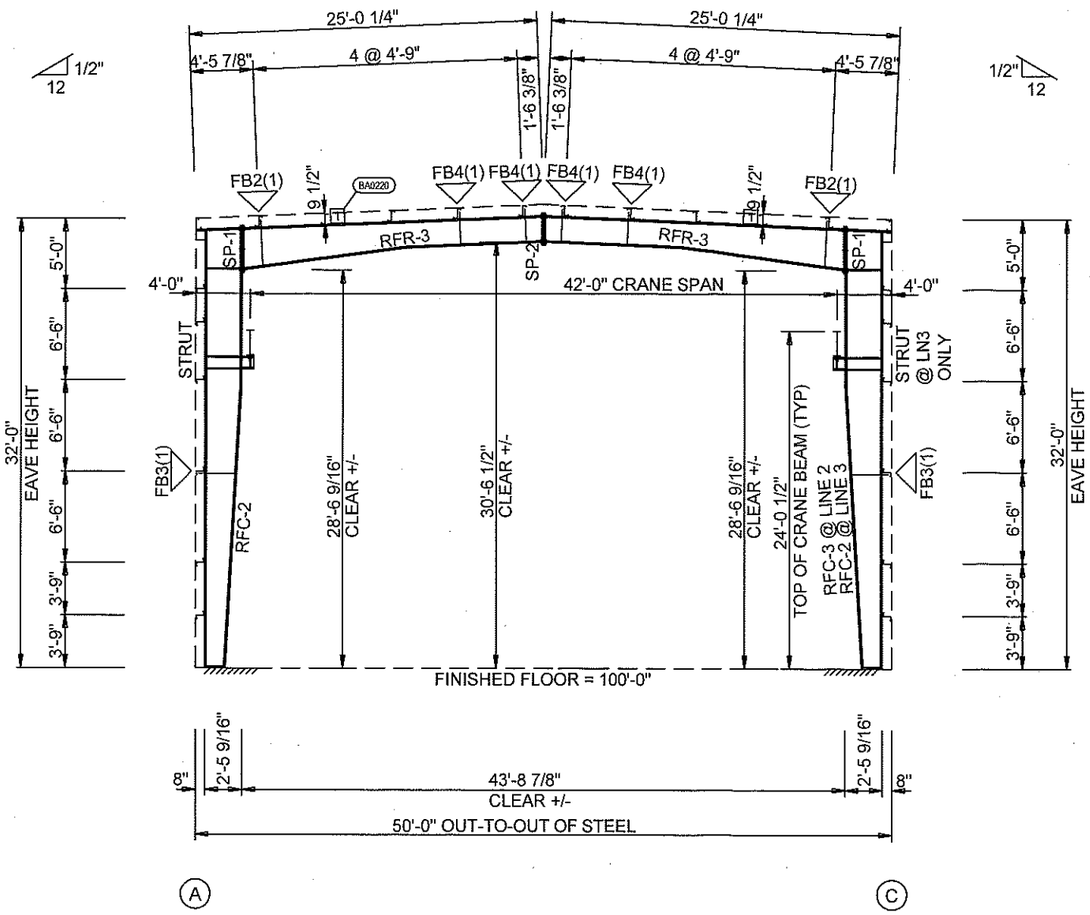
SPLICE PLATE & BOLT TABLE									
Mark	Qty Top	Bot	Int	Type	Dia	Length	Width	Thick	Length
SP-1	4	4	2	A325	3/4"	3"	8"	1/2"	3'-4 5/16"
SP-2	4	4	0	A325	3/4"	3"	6"	3/8"	2'-3 3/16"

STIFFENER TABLE				
Mark	Stiff Mark	Plate Size Width	Thick	Length
RFC-2	St- 1	4.125	0.250	4.000
RFC-2	St- 2	4.000	0.250	28.88
RFC-2	St- 3	4.000	0.250	28.88
RFC-2	St- 4	4.000	0.250	28.88
RFC-3	St- 4	4.000	0.250	28.88
RFC-3	St- 3	4.000	0.250	28.88
RFC-3	St- 2	4.000	0.250	28.88
RFC-3	St- 1	4.125	0.250	4.000

▽FLANGE BRACES: (1) One Side; (2) Two Sides
FBxxx(1)

MEMBER TABLE						
Mark	Weight	Web Depth Start/End	Web Plate Thick	Web Plate Length	Outside Flange W x Thk x Length	Inside Flange W x Thk x Length
RFC-2	1216	15.0/29.0	0.188	240.0	8 x 1/4" x 374.2	8 x 5/16" x 240.4
		29.0/29.0	0.250	135.4	8 x 1/4" x 37.0	8 x 5/16" x 98.7
RFR-3	540	33.0/20.0	0.188	143.0	6 x 3/16" x 261.6	6 x 1/4" x 143.6
		20.0/20.0	0.135	120.0		6 x 3/16" x 119.2
RF2-3	1214	29.0/29.0	0.250	135.4	8 x 1/4" x 37.0	8 x 5/16" x 98.7
		29.0/15.0	0.188	240.0	8 x 1/4" x 374.2	8 x 5/16" x 240.4

CONNECTION PLATES	
☐ ID	Mark/Part
1	RBR09



RIGID FRAME CROSS SECTION: LINE(S) 2-3

FOR CONSTRUCTION

GENERAL NOTES:
1. REFERENCE ELEVATION = 100'-0".
2. ALL BASE PLATES ARE AT REFERENCE ELEVATION UNLESS NOTED.
3. SEE ANCHOR BOLT PLAN FOR ANCHOR BOLT SIZES AND DETAILS.
4. FLANGE BRACES ARE REQUIRED ON TWO SIDES (2) OR ONE SIDE (1) AS NOTED.
5. ALL MAIN FRAME CONNECTION BOLTS ARE A325 BOLTS UNLESS NOTED.
6. FOR FLANGE BRACE CONNECTIONS AT COLUMNS OR RAFTERS SEE DETAIL AG0011 (UNLESS OTHERWISE NOTED).
7. FLANGE BRACE LOCATIONS AT EXPANDABLE END FRAMES, IF (2) ARE REQUIRED: ONE FLANGE BRACE IS TO BE INSTALLED AT THE TIME OF ERECTION, WHILE THE OTHER IS TO BE STORED AND USED AT THE TIME OF A FUTURE ADDITION.
8. ALL CONNECTION BOLTS OR FIELD WELDS, PURLINS AND ALL FLANGE BRACES MUST BE PROPERLY INSTALLED ON MAIN FRAMES AS THEY ARE ERECTED AND BEFORE ERECTION LOADS ARE APPLIED.
9. DRAWINGS MAY NOT BE TO SCALE.

DETAIL KEY
DETAIL NAME → AG0081 ← E7 EXAMPLE PAGE CALLOUT
IF NO PAGE IS CALLED OUT, SEE D-PAGES AT END OF DRAWING SET.

ISSUE	DESCRIPTION	BY	DATE
P	PERMIT	JY	01/23/18
0	CONSTRUCTION	CRP	02/12/18

KIRBY BUILDING SYSTEMS

TITLE:	CROSS SECTION: LINE(S) 2-3	DRN.BY:	CRP
BUYER:	J HERBERT CONSTRUCTION	DATE:	02/12/18
PROJECT:	COLUMBUS McKINNON	CKD.BY:	KAB
LOCATION:	SALEM, OH	DATE:	2-19-18
JOB NO:	K18K0011A	DWG.NO:	E4 OF: 16

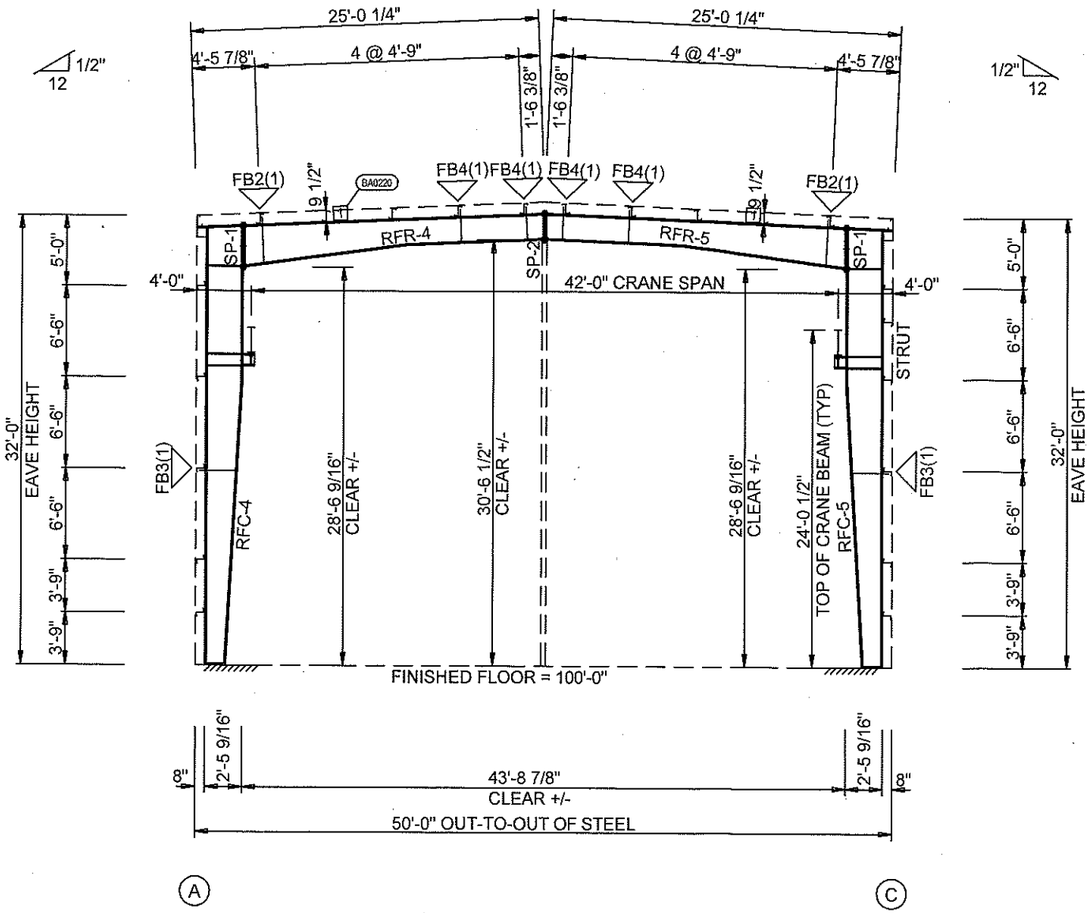
SPLICE PLATE & BOLT TABLE									
Mark	Qty Top	Bot	Int	Type	Dia	Length	Width	Thick	Length
SP-1	4	4	2	A325	3/4"	3"	8"	3/8"	3'-4 5/16"
SP-2	4	4	0	A325	3/4"	3"	6"	3/8"	2'-3 3/16"

STIFFENER TABLE				
Mark	Stiff Mark	Plate Size Width	Thick	Length
RFC-4	St- 1	4.125	0.250	4.000
RFC-4	St- 2	4.000	0.250	28.88
RFC-4	St- 3	4.000	0.250	28.88
RFC-4	St- 4	4.000	0.250	28.88
RFC-5	St- 4	4.000	0.250	28.88
RFC-5	St- 3	4.000	0.250	28.88
RFC-5	St- 2	4.000	0.250	28.88
RFC-5	St- 1	4.125	0.250	4.000

▽FLANGE BRACES: (1) One Side; (2) Two Sides
FBxxx(1)

MEMBER TABLE						
Mark	Weight	Web Depth Start/End	Web Plate Thick	Length	Outside Flange W x Thk x Length	Inside Flange W x Thk x Length
RFC-4	1201	15.0/29.0	0.188	240.0	8 x 1/4" x 374.2	8 x 5/16" x 240.4
		29.0/29.0	0.250	135.4	8 x 1/4" x 37.0	8 x 5/16" x 98.7
RFR-4	505	33.0/20.0	0.164	143.2	6 x 3/16" x 261.8	6 x 1/4" x 143.8
		20.0/20.0	0.135	120.0		6 x 3/16" x 119.2
RFR-5	507	20.0/20.0	0.135	120.0	6 x 3/16" x 261.8	6 x 3/16" x 119.2
		20.0/33.0	0.164	143.2		6 x 1/4" x 143.8
RFC-5	1204	29.0/29.0	0.250	135.4	8 x 1/4" x 37.0	8 x 5/16" x 98.7
		29.0/15.0	0.188	240.0	8 x 1/4" x 374.2	8 x 5/16" x 240.4

CONNECTION PLATES	
☐ ID	Mark/Part
1	RBR09



RIGID FRAME CROSS SECTION: LINE(S) 4

NOTE: FRAME IS NOT EXPANDABLE.

FOR CONSTRUCTION

CERTIFICATION EXTENDS ONLY FOR THE LOADS SPECIFIED ON KIRBY'S PURCHASE ORDER AS APPLIED TO THE STRUCTURAL COMPONENTS OF THE BUILDING DESIGNED AND SUPPLIED BY KIRBY BUILDING SYSTEMS, IF ERECTED AS INDICATED. NOTE THAT KIRBY'S ENGINEER IS NOT ACTING AS THE ENGINEER OF RECORD FOR THIS CONSTRUCTION PROJECT.

GENERAL NOTES:
1. REFERENCE ELEVATION = 100'-0".
2. ALL BASE PLATES ARE AT REFERENCE ELEVATION UNLESS NOTED.
3. SEE ANCHOR BOLT PLAN FOR ANCHOR BOLT SIZES AND DETAILS.
4. FLANGE BRACES ARE REQUIRED ON TWO SIDES (2) OR ONE SIDE (1) AS NOTED.
5. ALL MAIN FRAME CONNECTION BOLTS ARE A325 BOLTS UNLESS NOTED.
6. FOR FLANGE BRACE CONNECTIONS AT COLUMNS OR RAFTERS SEE DETAIL AG0011 (UNLESS OTHERWISE NOTED).
7. FLANGE BRACE LOCATIONS AT EXPANDABLE END FRAMES, IF (2) ARE REQUIRED: ONE FLANGE BRACE IS TO BE INSTALLED AT THE TIME OF ERECTION, WHILE THE OTHER IS TO BE STORED AND USED AT THE TIME OF A FUTURE ADDITION.
8. ALL CONNECTION BOLTS OR FIELD WELDS, PURLINS AND ALL FLANGE BRACES MUST BE PROPERLY INSTALLED ON MAIN FRAMES AS THEY ARE ERECTED AND BEFORE ERECTION LOADS ARE APPLIED.
9. DRAWINGS MAY NOT BE TO SCALE.

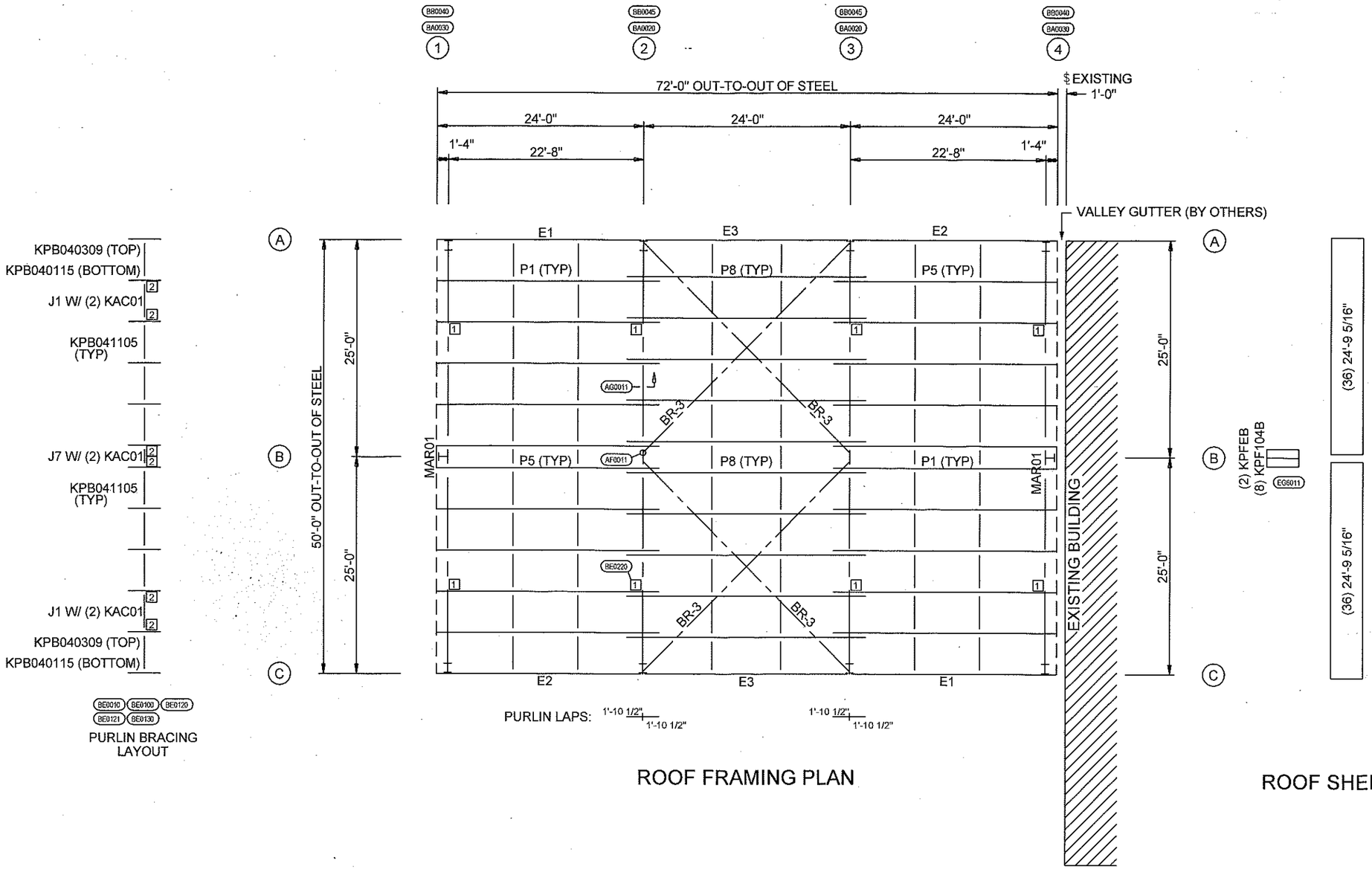
DETAIL KEY
DETAIL NAME → AG0081 ← E7 EXAMPLE PAGE CALLOUT
IF NO PAGE IS CALLED OUT, SEE D-PAGES AT END OF DRAWING SET.

ISSUE	DESCRIPTION	BY	DATE
P	PERMIT	JY	01/23/18
0	CONSTRUCTION	CRP	02/12/18

KIRBY BUILDING SYSTEMS

TITLE:	CROSS SECTION: LINE(S) 4	DRN.BY:	CRP
BUYER:	J HERBERT CONSTRUCTION	DATE:	02/12/18
PROJECT:	COLUMBUS McKINNON	CKD.BY:	KAB
LOCATION:	SALEM, OH	DATE:	2-19-18
JOB NO:	K18K0011A	DWG.NO:	E5 OF: 16

CONNECTION PLATES ROOF PLAN		
☐ ID	QUAN	MARK/PART
1	8	RBR09
2	36	KAC01



PURLIN BRACING LAYOUT

ROOF FRAMING PLAN

ROOF SHEETING

FOR CONSTRUCTION

CERTIFICATION EXTENDS ONLY FOR THE LOADS SPECIFIED ON KIRBY'S PURCHASE ORDER AS APPLIED TO THE STRUCTURAL COMPONENTS OF THE BUILDING DESIGNED AND SUPPLIED BY KIRBY BUILDING SYSTEMS, IF ERECTED AS INDICATED. NOTE THAT KIRBY'S ENGINEER IS NOT ACTING AS THE ENGINEER OF RECORD FOR THIS CONSTRUCTION PROJECT.

GENERAL NOTES:

1. USE 1/2" x 1-1/4" A325 BOLTS FOR ALL PURLIN LAP CONNECTIONS.
2. USE 1/2" x 1-1/4" A325 BOLTS FOR THE MAJORITY OF PURLIN AND EAVE STRUT TO FRAME CONNECTIONS (REFER TO ERECTION DETAILS).
3. THE DIAMETER OF THE BRACING IS DENOTED BY THE THIRD AND FOURTH DIGITS OF THE PIECE MARK.
   (CABLE EX. 08 = 1/4" DIA. — 10 = 5/16" DIA.)
   (ROD EX. 08 = 1/2" DIA. — 10 = 5/8" DIA.)
4. ADEQUATE TEMPORARY BRACING MUST BE PROVIDED BY THE ERECTOR DURING THE ERECTION OF THE BUILDING.
5. ALL PRIMARY AND SECONDARY FRAMING, WIND BRACING, ETC. MUST BE INSTALLED, PROPERLY ALIGNED, BOLTED OR WELDED PRIOR TO THE INSTALLATION OF THE ROOF PANELS.
6. IT MAY BE NECESSARY DURING ERECTION TO MAKE MINOR ADJUSTMENTS AND ALIGNMENTS TO BOTH PURLINS AND GIRTS PRIOR TO INSTALLING PANELS.
7. DO NOT STAND OR WALK ON SECONDARY FRAMING MEMBERS SUCH AS GIRTS, PURLINS AND EAVE STRUTS UNLESS THEY ARE FIRMLY SECURED AT BOTH ENDS AND LATERALLY SUPPORTED.
8. FOR KIRBYLOK OR ROOFLOK ROOF PANELS, REF. APPROPRIATE ERECTION MANUAL FOR ERECTION PROCEDURES.
9. DRAWINGS MAY NOT BE TO SCALE.
10. DO NOT USE METAL BUILDING PANELS AS WALK BOARDS OR WORKING PLATFORMS. NEVER STAND OR WALK ON METAL BUILDING PANELS BETWEEN SUPPORTS UNLESS THE PANELS ARE FIRMLY FASTENED AT BOTH ENDS AND BOTH SIDES.
11. WARNING: PENCIL LEAD AND MARKER WILL CAUSE GALV. PANELS AND TRIM PIECES TO RUST. DO NOT USE THESE TO MARK ON PARTS.
12. A COPY OF KIRBY'S STANDING SEAM CHECKLIST CAN BE FOUND IN THE STANDING SEAM ERECTION MANUAL SENT WITH EACH PROJECT. TO ENSURE YOUR INSTALLER HAS A THOROUGH UNDERSTANDING OF THE STANDING SEAM SYSTEM, PLEASE REVIEW THE DETAILS PROVIDED IN THE ERECTION DRAWINGS AND THE STANDING SEAM MANUAL. HAVE THE ERECTOR OR YOUR PROJECT SUPERINTENDENT COMPLETE THE CHECKLIST.

DETAIL KEY

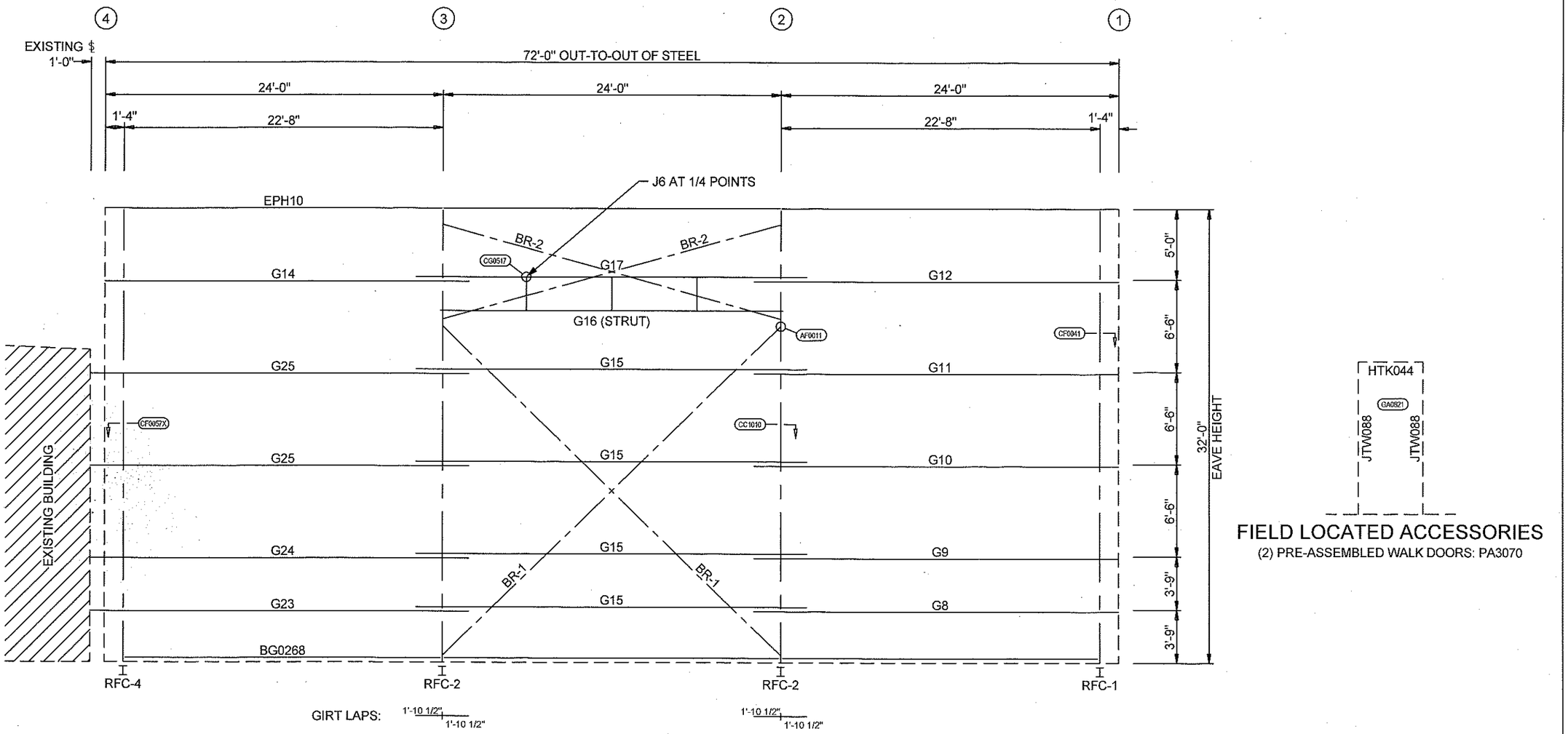
DETAIL NAME → AG0081 ← E7 EXAMPLE PAGE CALLOUT

IF NO PAGE IS CALLED OUT, SEE D-PAGES AT END OF DRAWING SET.

ISSUE	DESCRIPTION	BY	DATE
P	PERMIT	JY	01/23/18
0	CONSTRUCTION	CRP	02/12/18

KIRBY BUILDING SYSTEMS

TITLE:	ROOF FRAMING / SHEETING	DRN.BY:	CRP
BUYER:	J HERBERT CONSTRUCTION	DATE:	02/12/18
PROJECT:	COLUMBUS McKINNON	CKD.BY:	KAB
LOCATION:	SALEM, OH	DATE:	2-19-18
JOB NO:	K18K0011A	DWG.NO:	E6 OF: 16



SIDEWALL FRAMING: LINE A

FIELD LOCATED ACCESSORIES
(2) PRE-ASSEMBLED WALK DOORS: PA3070

FOR CONSTRUCTION

CERTIFICATION EXTENDS ONLY FOR THE LOADS SPECIFIED ON KIRBY'S PURCHASE ORDER AS APPLIED TO THE STRUCTURAL COMPONENTS OF THE BUILDING DESIGNED AND SUPPLIED BY KIRBY BUILDING SYSTEMS, IF ERECTED AS INDICATED. NOTE THAT KIRBY'S ENGINEER IS NOT ACTING AS THE ENGINEER OF RECORD FOR THIS CONSTRUCTION PROJECT.

GENERAL NOTES:

1. USE 1/2" x 1-1/4" A325 BOLTS FOR ALL GIRT LAP CONDITIONS AND FOR THE MAJORITY OF GIRT TO FRAME CONNECTIONS (REFER TO ERECTION DETAILS).
2. THE DIAMETER OF THE BRACING IS DENOTED BY THE THIRD AND FOURTH DIGITS OF THE PIECE MARK.
   (CABLE EX. CB08 = 1/4" DIA. --- CB10 = 5/16" DIA.)
   (ROD EX. BR08 = 1/2" DIA. --- BR10 = 5/8" DIA.)
3. ADEQUATE TEMPORARY BRACING MUST BE PROVIDED BY THE ERECTOR DURING THE ERECTION OF THE BUILDING.
4. DRAWINGS MAY NOT BE TO SCALE.
5. IT MAY BE NECESSARY DURING ERECTION TO MAKE MINOR ADJUSTMENTS AND ALIGNMENTS TO BOTH PURLINS AND GIRTS PRIOR TO INSTALLING PANELS.
6. ERECTOR TO FIELD SLOT FLUSH FRAME GIRTS FOR CABLE / ROD BRACING.
7. BEFORE INSTALLATION OF WALL PANELS, IT IS IMPORTANT TO REFERENCE WALL PANEL FASTENER LAYOUT DETAILS TO INSURE CORRECT USAGE OF FASTENERS. FOR EXAMPLE: GA0101 (KW)... GA0201 (KR)... GA0301 KRP)
8. USE RVTCP AT 5'-0" C/C FOR TEMPORARY INSTALLATION OF CLH TRIM.
9. ALL PRIMARY AND SECONDARY FRAMING, WIND BRACING, ETC. MUST BE INSTALLED, PROPERLY ALIGNED, BOLTED OR WELDED PRIOR TO THE INSTALLATION OF THE PANELS.
10. ALL GIRT LAPS NOT INDICATED WILL BE 2-1/4".
11. REF. GA0030 FOR CAULKING AT TRIM LAPS.
12. WARNING: PENCIL LEAD AND MARKER WILL CAUSE GALV. PANELS AND TRIM PIECES TO RUST. DO NOT USE THESE TO MARK ON PARTS.
13. BUILDER TO FIELD CUT OR BACK LAP PANELS AS REQUIRED.
14. TRIM THAT IS HIDDEN UPON PROPER INSTALLATION (EX: CLH, LRT, RCL) MAY NOT BE THE SAME COLOR AS THE TRIM THAT WILL BE VISIBLE.

DETAIL KEY

DETAIL NAME → AG0081 ← E7 EXAMPLE PAGE CALLOUT

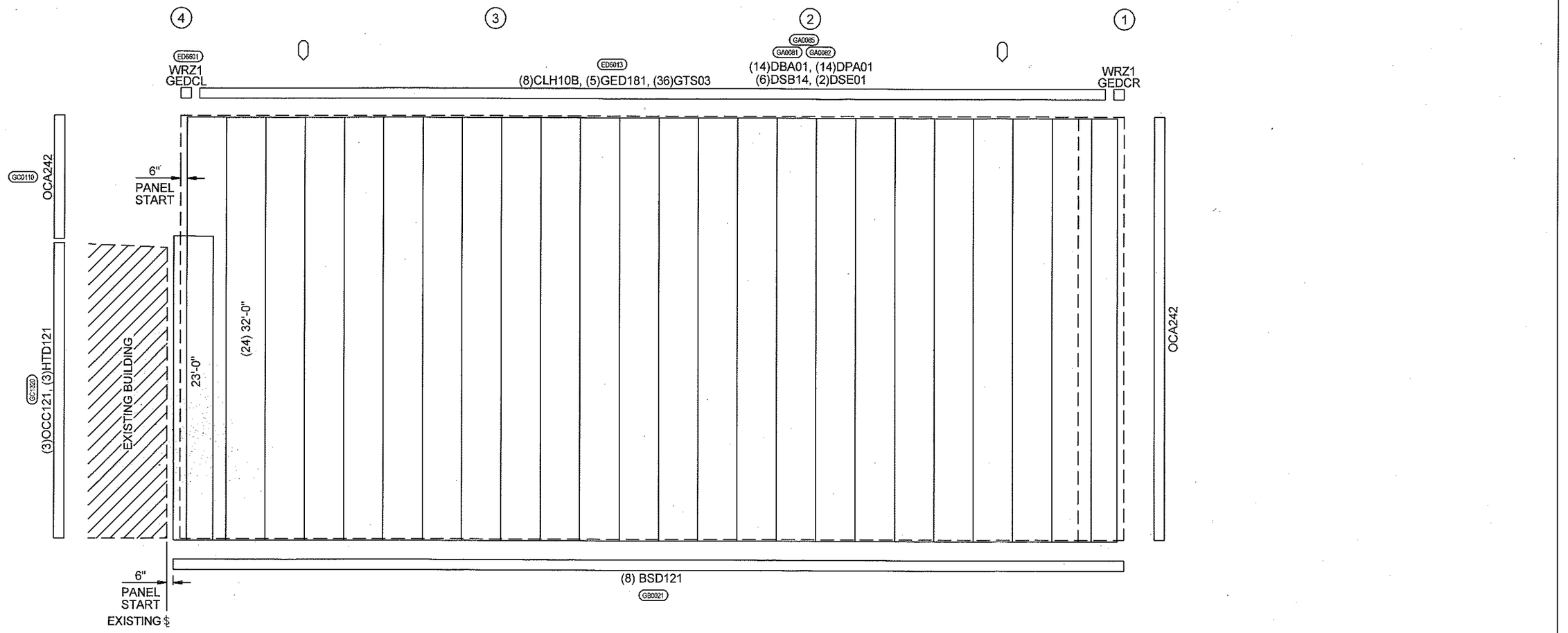
IF NO PAGE IS CALLED OUT, SEE D-PAGES AT END OF DRAWING SET.

ISSUE	DESCRIPTION	BY	DATE
P	PERMIT	JY	01/23/18
0	CONSTRUCTION	CRP	02/12/18

KIRBY BUILDING SYSTEMS

TITLE:	SIDEWALL FRAMING: LINE A	DRN.BY:	CRP
BUYER:	J HERBERT CONSTRUCTION	DATE:	02/12/18
PROJECT:	COLUMBUS McKINNON	CKD.BY:	
LOCATION:	SALEM, OH	DATE:	2-19-18
JOB NO:	K18K0011A	DWG.NO:	E7 OF: 16

DOWNSPOUT LOCATIONS



SIDEWALL SHEETING / TRIM: LINE A

FOR CONSTRUCTION

CERTIFICATION EXTENDS ONLY FOR THE LOADS SPECIFIED ON KIRBY'S PURCHASE ORDER AS APPLIED TO THE STRUCTURAL COMPONENTS OF THE BUILDING DESIGNED AND SUPPLIED BY KIRBY BUILDING SYSTEMS, IF ERECTED AS INDICATED. NOTE THAT KIRBY'S ENGINEER IS NOT ACTING AS THE ENGINEER OF RECORD FOR THIS CONSTRUCTION PROJECT.

GENERAL NOTES:

1. USE 1/2" x 1-1/4" A325 BOLTS FOR ALL GIRT LAP CONDITIONS AND FOR THE MAJORITY OF GIRT TO FRAME CONNECTIONS (REFER TO ERECTION DETAILS).
2. THE DIAMETER OF THE BRACING IS DENOTED BY THE THIRD AND FOURTH DIGITS OF THE PIECE MARK.
   (CABLE EX. CB08 = 1/4" DIA. --- CB10 = 5/16" DIA.)
   (ROD EX. BR08 = 1/2" DIA. --- BR10 = 5/8" DIA.)
3. ADEQUATE TEMPORARY BRACING MUST BE PROVIDED BY THE ERECTOR DURING THE ERECTION OF THE BUILDING.
4. DRAWINGS MAY NOT BE TO SCALE.
5. IT MAY BE NECESSARY DURING ERECTION TO MAKE MINOR ADJUSTMENTS AND ALIGNMENTS TO BOTH PURLINS AND GIRTS PRIOR TO INSTALLING PANELS.
6. ERECTOR TO FIELD SLOT FLUSH FRAME GIRTS FOR CABLE / ROD BRACING.
7. BEFORE INSTALLATION OF WALL PANELS, IT IS IMPORTANT TO REFERENCE WALL PANEL FASTENER LAYOUT DETAILS TO INSURE CORRECT USAGE OF FASTENERS. FOR EXAMPLE: GA0101 (KW)... GA0201 (KR)... GA0301 (KRP)
8. USE RVTCP AT 5'-0" C/C FOR TEMPORARY INSTALLATION OF CLH TRIM.
9. ALL PRIMARY AND SECONDARY FRAMING, WIND BRACING, ETC. MUST BE INSTALLED, PROPERLY ALIGNED, BOLTED OR WELDED PRIOR TO THE INSTALLATION OF THE PANELS.
10. ALL GIRT LAPS NOT INDICATED WILL BE 2-1/4".
11. REF. GA0030 FOR CAULKING AT TRIM LAPS.
12. WARNING: PENCIL LEAD AND MARKER WILL CAUSE GALV. PANELS AND TRIM PIECES TO RUST. DO NOT USE THESE TO MARK ON PARTS.
13. BUILDER TO FIELD CUT OR BACK LAP PANELS AS REQUIRED.
14. TRIM THAT IS HIDDEN UPON PROPER INSTALLATION (EX: CLH, LRT, RCL) MAY NOT BE THE SAME COLOR AS THE TRIM THAT WILL BE VISIBLE.

DETAIL KEY

DETAIL NAME → AG0081 ← E7 EXAMPLE PAGE CALLOUT

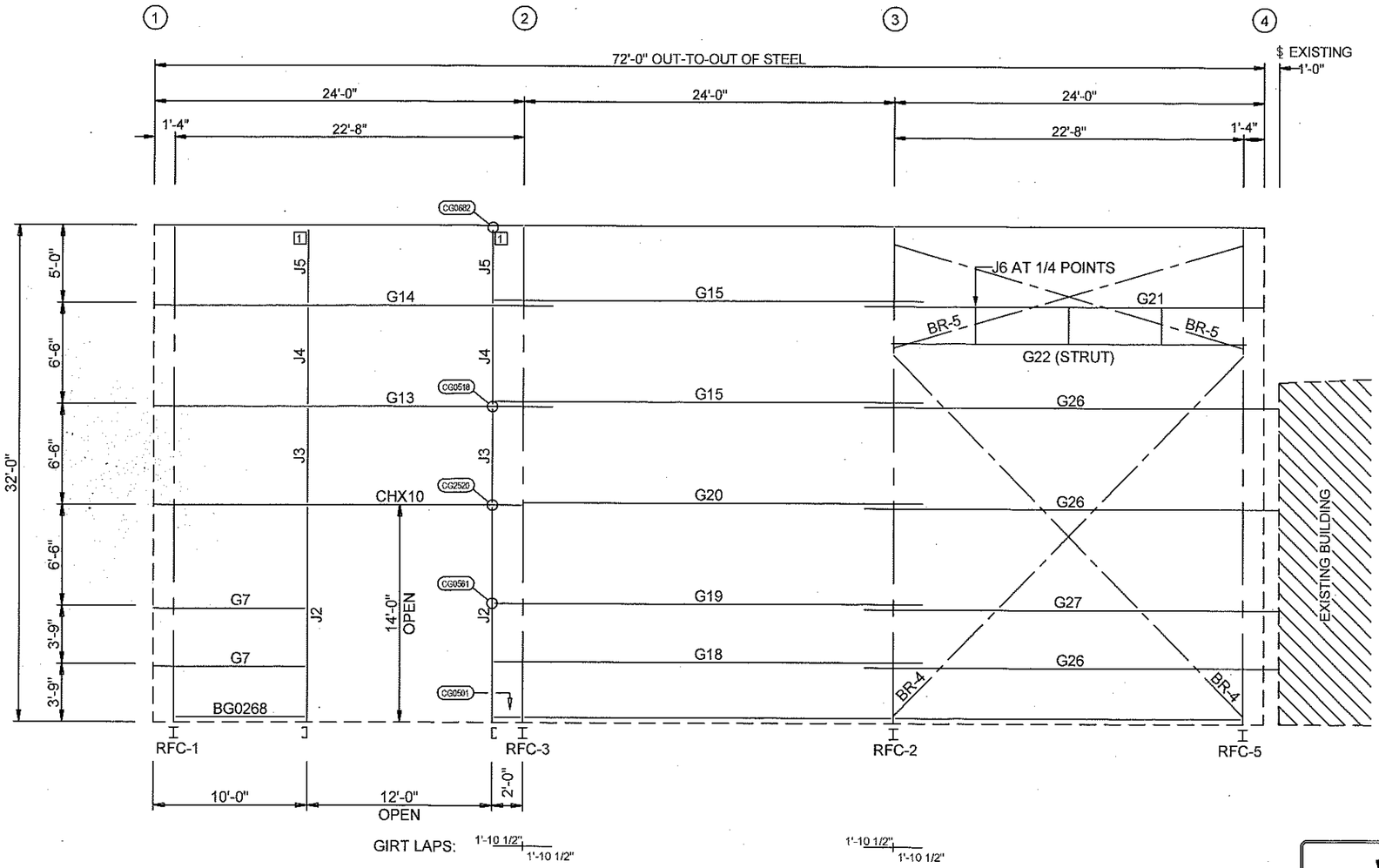
IF NO PAGE IS CALLED OUT, SEE D-PAGES AT END OF DRAWING SET.

ISSUE	DESCRIPTION	BY	DATE
P	PERMIT	JY	01/23/18
0	CONSTRUCTION	CRP	02/12/18

KIRBY BUILDING SYSTEMS

TITLE:	SIDEWALL SHEETING / TRIM: LINE A	DRN.BY:	CRP
BUYER:	J HERBERT CONSTRUCTION	DATE:	02/12/18
PROJECT:	COLUMBUS McKINNON	CKD.BY:	KAG
LOCATION:	SALEM, OH	DATE:	2-19-18
JOB NO:	K18K0011A	DWG.NO:	E8 OF: 16

CONNECTION PLATES FRAME LINE C		
☐ ID	QUAN	MARK/PART
1	2	KAC01



SIDEWALL FRAMING: LINE C

FOR CONSTRUCTION

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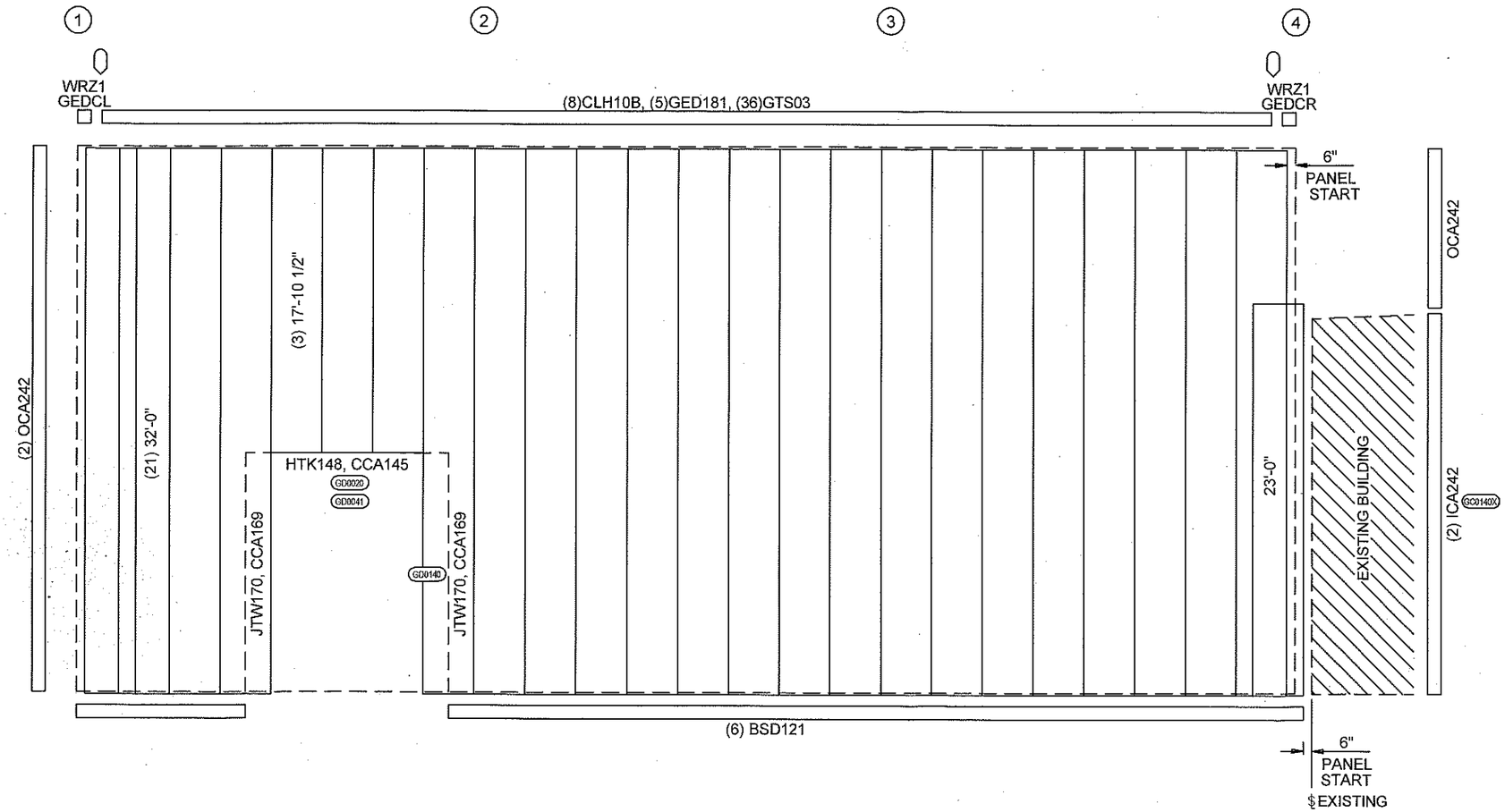
P	PERMIT	JY	01/23/18
0	CONSTRUCTION	CRP	02/12/18

KIRBY BUILDING SYSTEMS

TITLE:	SIDEWALL FRAMING: LINE C	DRN.BY:	CRP
BUYER:	J HERBERT CONSTRUCTION	DATE:	02/12/18
PROJECT:	COLUMBUS McKINNON	CKD.BY:	KAB
LOCATION:	SALEM, OH	DATE:	2-19-18
JOB NO:	K18K0011A	DWG.NO:	E9 OF: 16

DOWNSPOUT LOCATIONS



SIDEWALL SHEETING / TRIM: LINE C

FOR CONSTRUCTION

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P	PERMIT	JY	01/23/18
0	CONSTRUCTION	CRP	02/12/18

KIRBY BUILDING SYSTEMS

TITLE:	SIDEWALL SHEETING / TRIM: LINE C	DRN.BY:	CRP
BUYER:	J HERBERT CONSTRUCTION	DATE:	02/12/18
PROJECT:	COLUMBUS McKINNON	CKD.BY:	KAB
LOCATION:	SALEM, OH	DATE:	2-19-18
JOB NO:	K18K0011A	DWG.NO:	E10 OF: 16

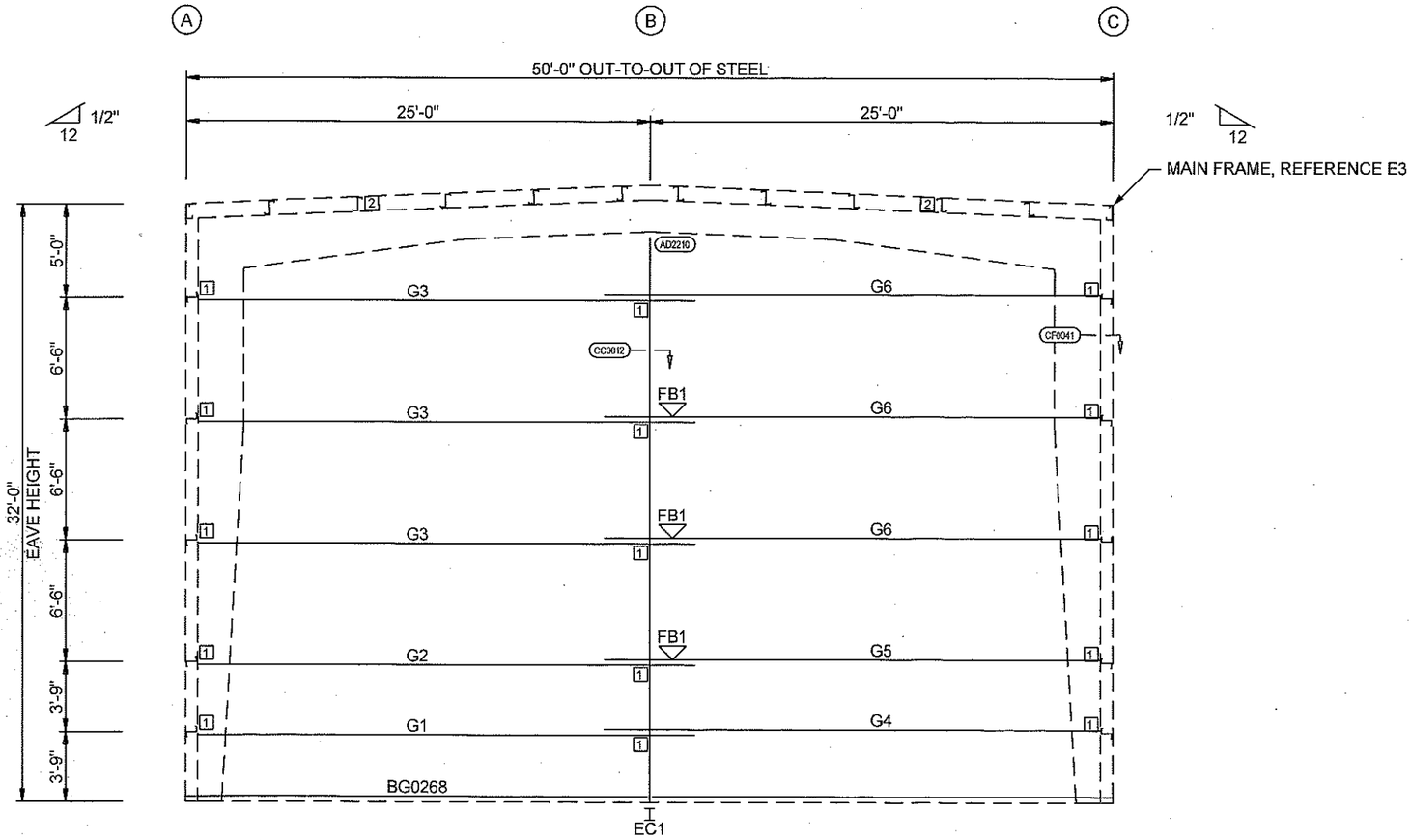
FLANGE BRACES: (1) One Side; (2) Two Sides
FBxxx(1)

BOLT TABLE
FRAME LINE 1

LOCATION	QUAN	TYPE	DIA	LENGTH
COLUMNS/RAF	4	A325	1/2"	2"

CONNECTION PLATES
FRAME LINE 1

☐ ID	QUAN	MARK/PART
1	15	KAC01
2	2	RBR09



GIRT LAPS: 2'-5 1/4" | 2'-5 1/4"

ENDWALL FRAMING: LINE 1

FOR CONSTRUCTION

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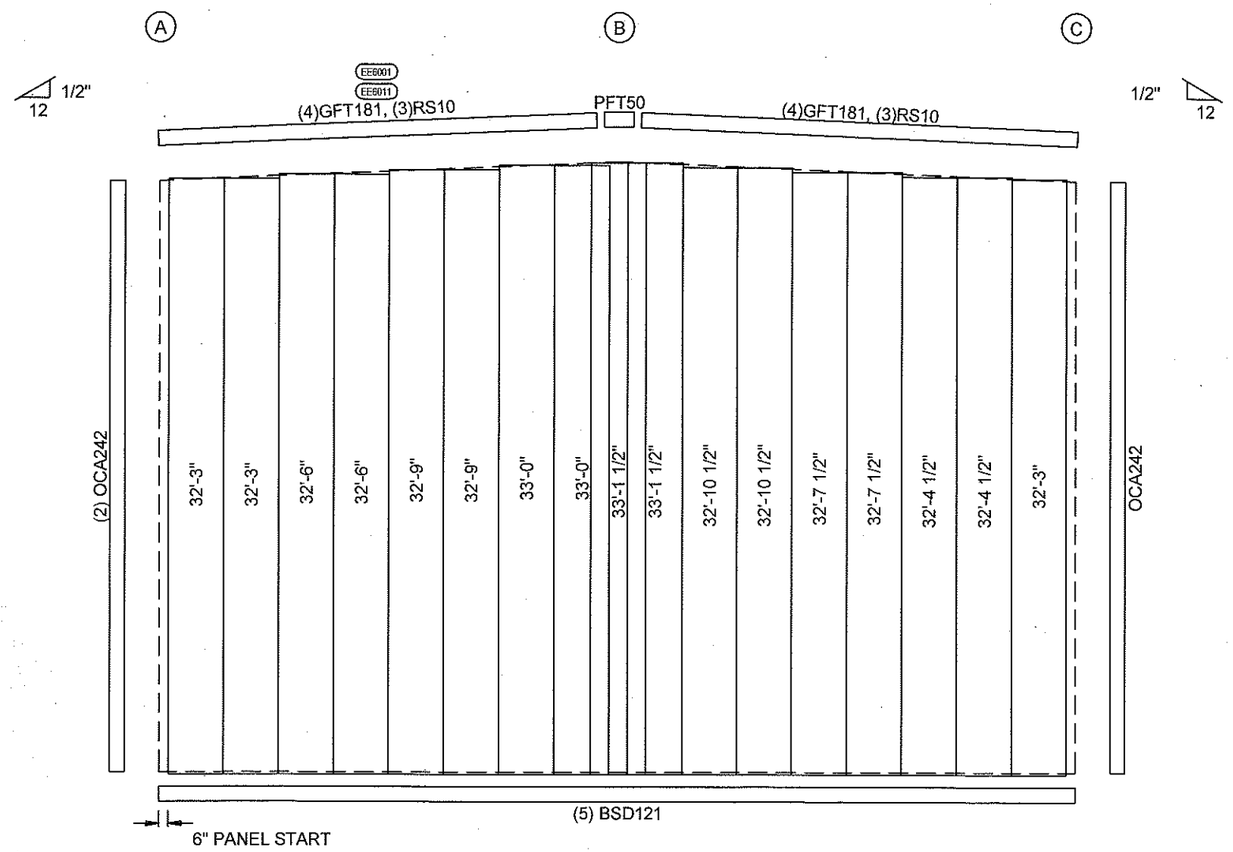
0	CONSTRUCTION	CRP	02/12/18

KIRBY BUILDING SYSTEMS

TITLE:	ENDWALL FRAMING: LINE 1	DRN.BY:	CRP
BUYER:	J HERBERT CONSTRUCTION	DATE:	02/12/18
PROJECT:	COLUMBUS McKINNON	CKD.BY:	KHB
LOCATION:	SALEM, OH	DATE:	2-19-18
JOB NO:	K18K0011A	DWG.NO:	E11 OF: 16



ENDWALL SHEETING / TRIM: LINE 1

FOR CONSTRUCTION

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DETAIL KEY

DETAIL NAME AG0081 → E7 ← EXAMPLE PAGE CALLOUT

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ISSUE	DESCRIPTION	BY	DATE
P	PERMIT	JY	01/23/18
0	CONSTRUCTION	CRP	02/12/18

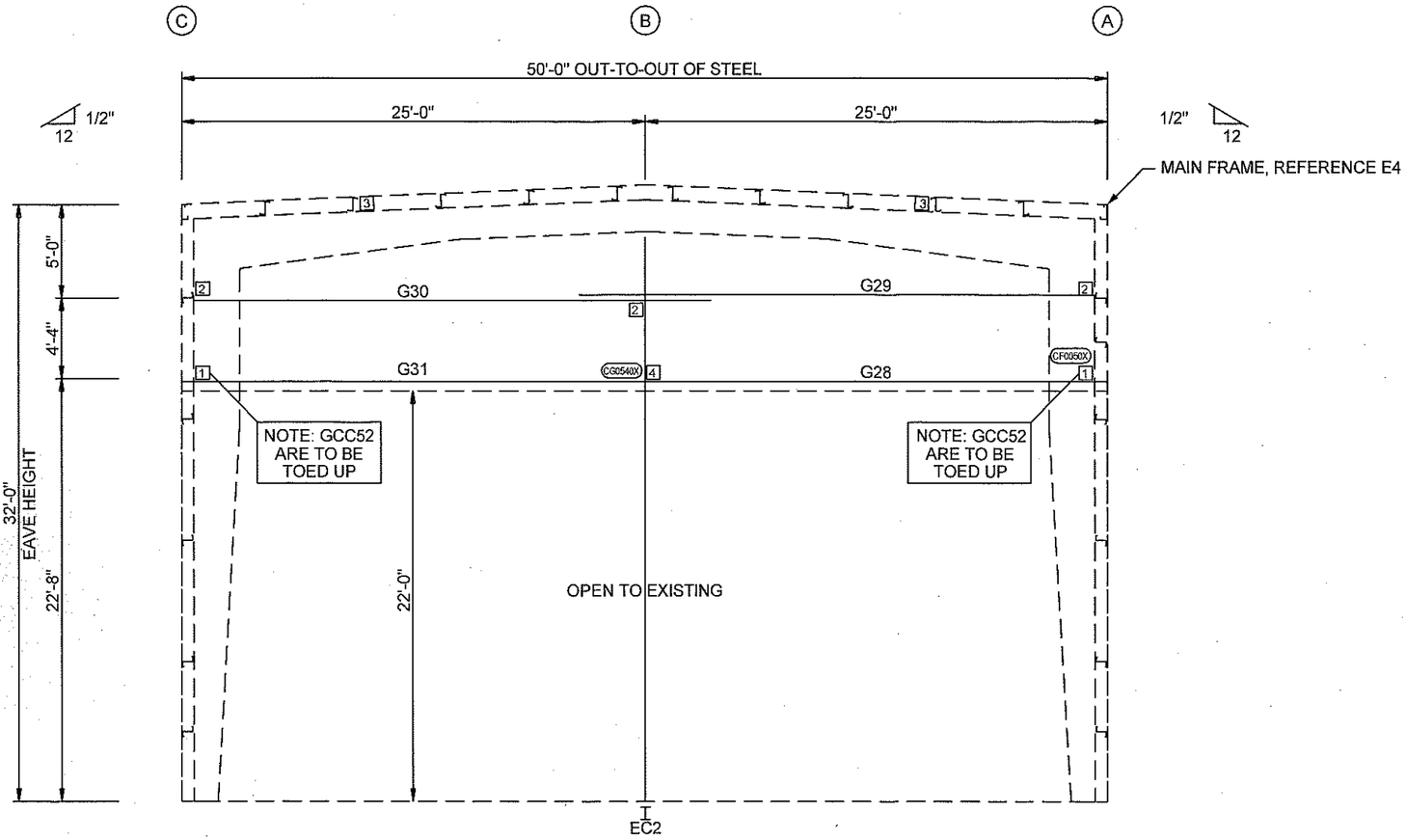
KIRBY BUILDING SYSTEMS

TITLE:	ENDWALL SHEETING / TRIM: LINE 1	DRN.BY:	CRP
BUYER:	J HERBERT CONSTRUCTION	DATE:	02/12/18
PROJECT:	COLUMBUS McKINNON	CKD.BY:	KHB
LOCATION:	SALEM, OH	DATE:	2-19-18
JOB NO:	K18K0011A	DWG.NO:	E12 OF: 16

FLANGE BRACES: (1) One Side; (2) Two Sides
FBxxx(1)

BOLT TABLE FRAME LINE 4				
LOCATION	QUAN	TYPE	DIA	LENGTH
COLUMNS/RAF	4	A325	1/2"	2"

CONNECTION PLATES FRAME LINE 4		
☐ ID	QUAN	MARK/PART
1	2	GCC52
2	3	KAC01
3	2	RBR09
4	1	GCW08



GIRT LAPS: 3'-6 3/4" / 3'-6 3/4"

ENDWALL FRAMING: LINE 4

FOR CONSTRUCTION

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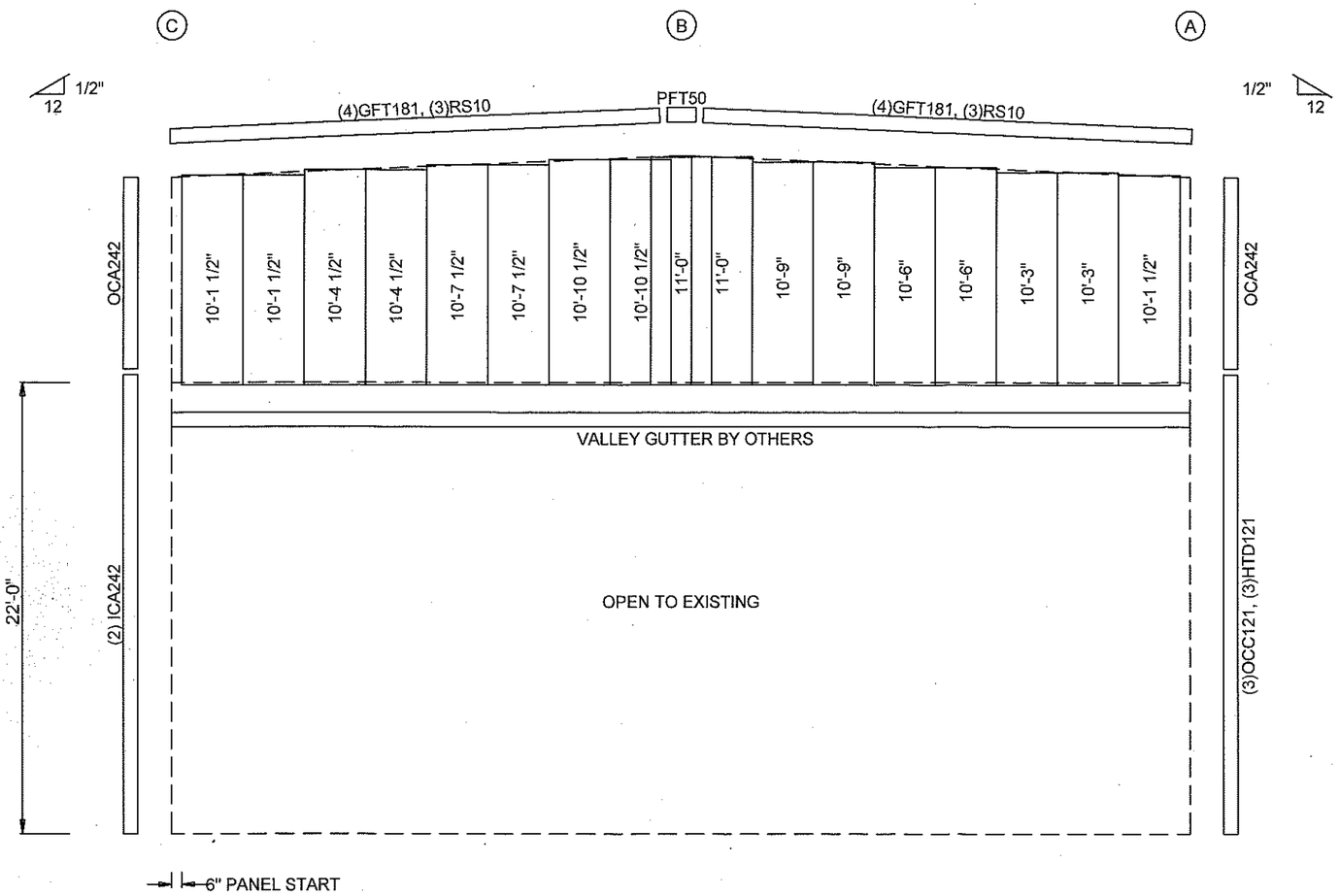
0	CONSTRUCTION	CRP	02/12/18

KIRBY BUILDING SYSTEMS

TITLE:	ENDWALL FRAMING: LINE 4	DRN.BY:	CRP
BUYER:	J HERBERT CONSTRUCTION	DATE:	02/12/18
PROJECT:	COLUMBUS McKINNON	CKD.BY:	[illegible]
LOCATION:	SALEM, OH	DATE:	2-19-18
JOB NO:	K18K0011A	DWG.NO:	E13 OF: 16



ENDWALL SHEETING / TRIM: LINE 4

FOR CONSTRUCTION

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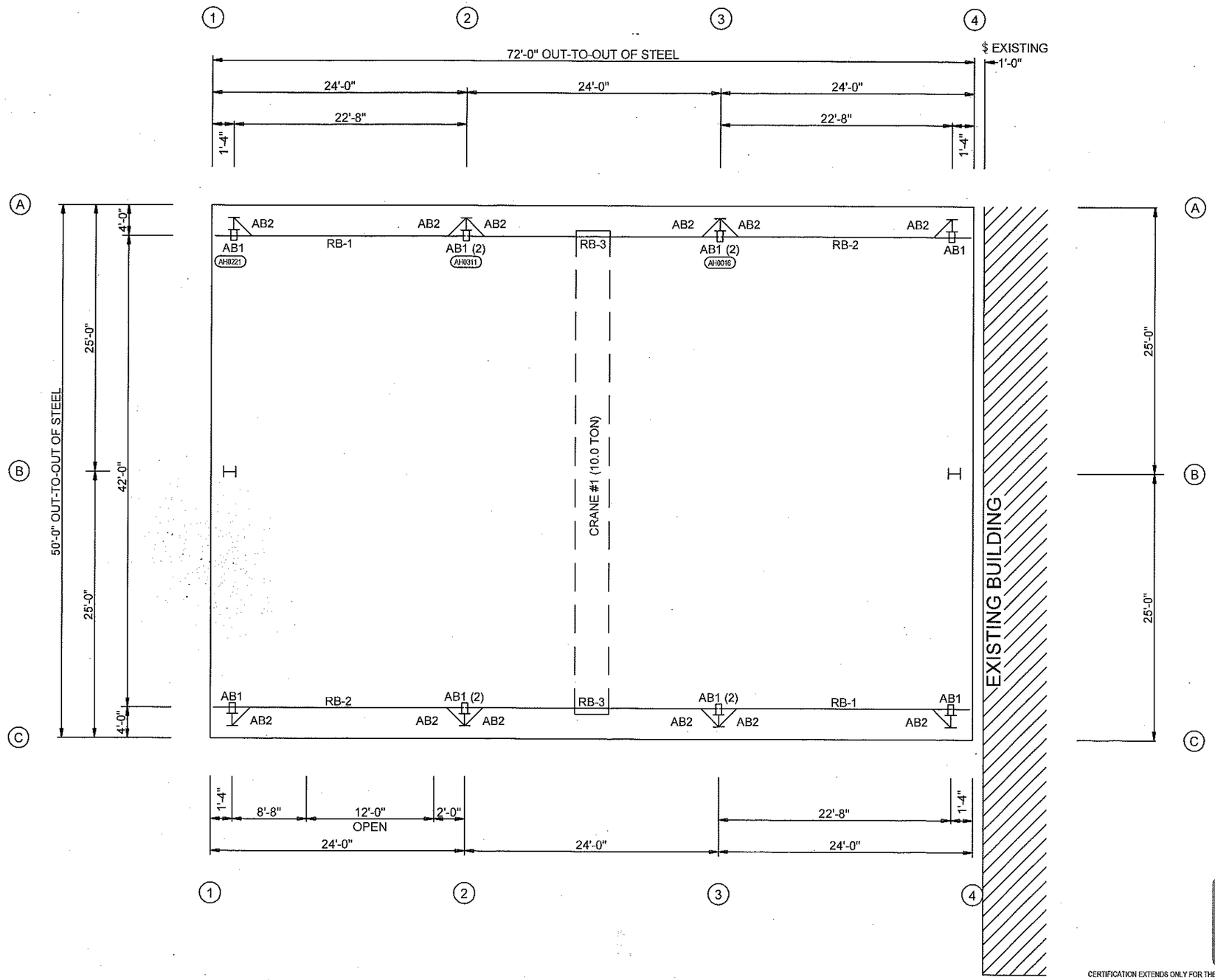
0	CONSTRUCTION	CRP	02/12/18

KIRBY BUILDING SYSTEMS

TITLE:	ENDWALL SHEETING / TRIM: LINE 4	DRN.BY:	CRP
BUYER:	J HERBERT CONSTRUCTION	DATE:	02/12/18
PROJECT:	COLUMBUS McKINNON	CKD.BY:	KHB
LOCATION:	SALEM, OH	DATE:	2-19-18
JOB NO:	K18K0011A	DWG.NO:	E14 OF: 16



FOR CONSTRUCTION

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GENERAL NOTES:

1. BUILDER TO VERIFY ALL CRANE SYSTEM DIMENSIONS SHOWN ON ERECTION DRAWINGS WILL COMPLY WITH CRANE MANUFACTURER'S REQUIRED DIMENSIONS AND CLEARANCES.
2. UNLESS NOTED OTHERWISE, KIRBY WILL ANCHOR ASCE RAILS BY MEANS OF HOOK BOLTS.
3. ELECTRICAL CONDUCTOR SUPPORTS ARE TO BE FURNISHED BY THE ELECTRICAL CONTRACTOR.
4. ALTHOUGH TWO OR MORE CRANES MAY BE IN A BUILDING, THE BUILDING AND RUNWAY BEAMS ARE DESIGNED, UNLESS OTHERWISE SPECIFIED, ASSUMING ONLY ONE CRANE ACTING AT ANY ONE TIME ON ANY RUNWAY BEAM SPAN OR ANY ONE FRAME.
5. DRAWINGS MAY NOT BE TO SCALE.
6. WHEN CRANE SUPPORT SYSTEMS ARE PART OF A METAL BUILDING SYSTEM, ERECTION TOLERANCES SPECIFIED IN MBMA COMMON INDUSTRY PRACTICES SECTION 9 APPLY. TO ACHIEVE THE REQUIRED TOLERANCE, GROUTING OF COLUMNS MAY BE REQUIRED. IF GROUTING OF COLUMN BASES IS REQUIRED, THE END CUSTOMER SHALL PROVIDE SUCH GROUTING. THE PARTY ERECTING THE RUNWAY BEAM IS RESPONSIBLE FOR SHIMMING, PLUMBING, AND LEVELING OF THE RUNWAY BEAMS. WHEN ALIGNING THE RUNWAY BEAMS, THE ALIGNMENT SHOULD BE WITH RESPECT TO THE BEAM WEBS SO THAT THE CENTER OF THE ALIGNED RAIL IS OVER BEAM WEB.

DETAIL KEY

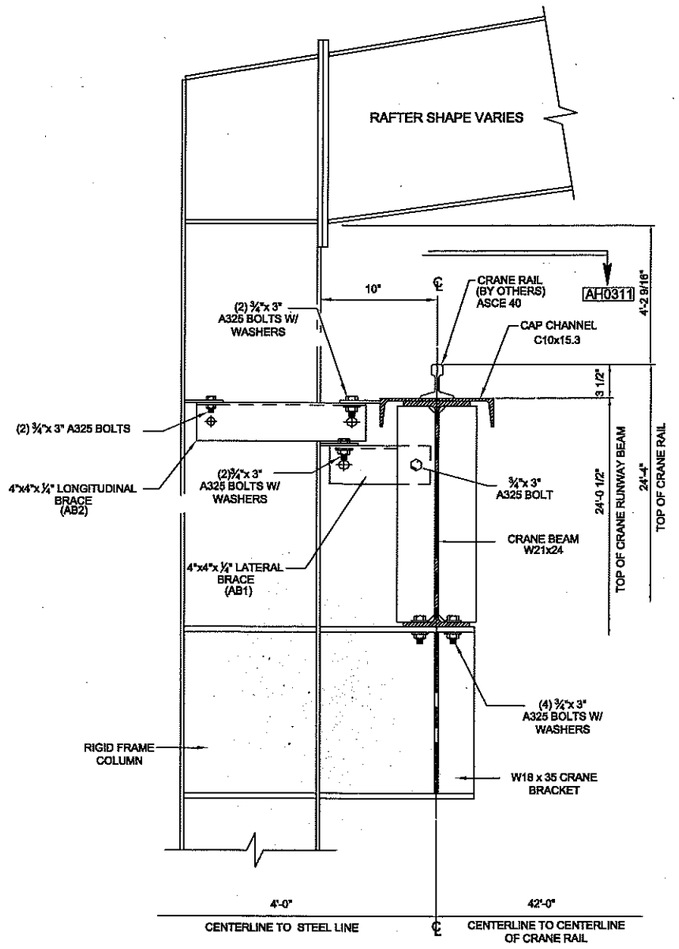
DETAIL NAME → E7 (AG0081) ← EXAMPLE PAGE CALLOUT

IF NO PAGE IS CALLED OUT, SEE D-PAGES AT END OF DRAWING SET.

ISSUE	DESCRIPTION	BY	DATE
P	PERMIT	JY	01/23/18
0	CONSTRUCTION	CRP	02/12/18

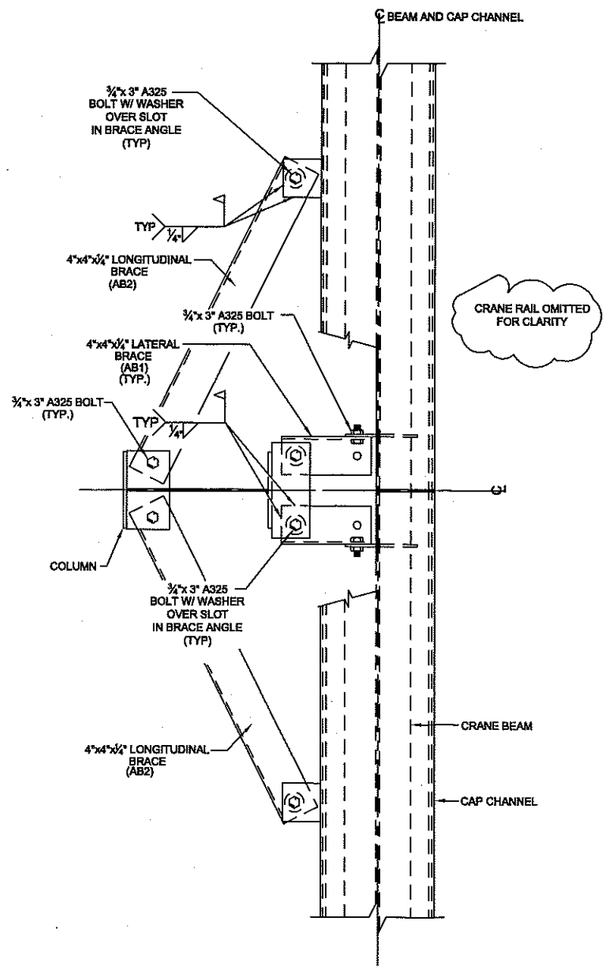
KIRBY BUILDING SYSTEMS

TITLE:	CRANE PLAN	DRN.BY:	CRP
BUYER:	J HERBERT CONSTRUCTION	DATE:	02/12/18
PROJECT:	COLUMBUS McKINNON	CKD.BY:	KAB
LOCATION:	SALEM, OH	DATE:	2-19-18
JOB NO:	K18K0011A	DWG.NO:	E15 OF: 16



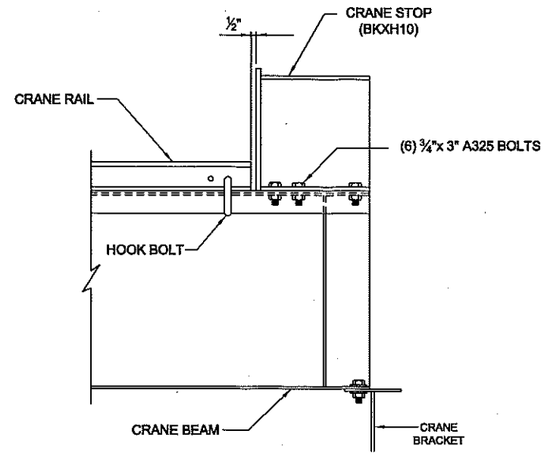
AH0016

TOP RUNNING CRANE BEAM TO EXTERIOR STRAIGHT COLUMN



AH0311

TOP VIEW TOP RUNNING CRANE BEAM CONNECTION AT EXTERIOR COLUMNS



AH0221

CRANE STOP DETAIL

CRANE INFORMATION

CRANE CAPACITY:	10 TON
NUMBER OF CRANES:	1
TYPE:	TOP RUNNING
HOIST OPERATION:	ELECTRIC
TROLLEY CONTROL:	PENDANT
RAIL TO BE USED:	ASCE 40
WHEEL BASE:	9'-0"
BAY SPACING:	24'-0"
SPAN:	42'-0"

LOADING INFORMATION

SERVICE CLASS:	C
MAX. CRANE WHEEL LOAD:	16,000
TOTAL CRANE HOIST/TROLLEY WEIGHT:	4,100
TOTAL BRIDGE WEIGHT:	14,500
VERTICAL IMPACT FACTOR:	10%
HORIZONTAL LOAD FACTOR:	20%
WHEEL LOAD - LATERAL LOAD:	1.21 K
WHEEL LOAD - LONGITUDINAL LOAD:	16.0 K

NOTES:

1. LOCATIONS OF THE BRACKETS ARE BASED ON A W21x44 RUNWAY BEAM, C10x15.3 CAP CHANNEL AND ASCE40RAIL.
2. THE FRAME DESIGN IS IN ACCORDANCE WITH THE ABOVE MENTIONED CRANE SPECIFICATIONS AND SHOULD NOT BE CHANGED WITHOUT KBS APPROVAL.
3. ANY CHANGES TO THE CRANE SPECIFICATIONS OR LOCATION MUST BE APPROVED BY KBS.

FOR CONSTRUCTION

CERTIFICATION EXTENDS ONLY FOR THE LOADS SPECIFIED ON KIRBY'S PURCHASE ORDER AS APPLIED TO THE STRUCTURAL COMPONENTS OF THE BUILDING DESIGNED AND SUPPLIED BY KIRBY BUILDING SYSTEMS, IF ERECTED AS INDICATED. NOTE THAT KIRBY'S ENGINEER IS NOT ACTING AS THE ENGINEER OF RECORD FOR THIS CONSTRUCTION PROJECT.

GENERAL NOTES:

1. BUILDER TO VERIFY ALL CRANE SYSTEM DIMENSIONS SHOWN ON ERECTION DRAWINGS WILL COMPLY WITH CRANE MANUFACTURER'S REQUIRED DIMENSIONS AND CLEARANCES.
2. UNLESS NOTED OTHERWISE, KIRBY WILL ANCHOR ASCE RAILS BY MEANS OF HOOK BOLTS.
3. ELECTRICAL CONDUCTOR SUPPORTS ARE TO BE FURNISHED BY THE ELECTRICAL CONTRACTOR.
4. ALTHOUGH TWO OR MORE CRANES MAY BE IN A BUILDING, THE BUILDING AND RUNWAY BEAMS ARE DESIGNED, UNLESS OTHERWISE SPECIFIED, ASSUMING ONLY ONE CRANE ACTING AT ANY ONE TIME ON ANY RUNWAY BEAM SPAN OR ANY ONE FRAME.
5. DRAWINGS MAY NOT BE TO SCALE.
6. WHEN CRANE SUPPORT SYSTEMS ARE PART OF A METAL BUILDING SYSTEM, ERECTION TOLERANCES SPECIFIED IN MBMA COMMON INDUSTRY PRACTICES SECTION 9 APPLY. TO ACHIEVE THE REQUIRED TOLERANCE, GROUTING OF COLUMNS MAY BE REQUIRED. IF GROUTING OF COLUMN BASES IS REQUIRED, THE END CUSTOMER SHALL PROVIDE SUCH GROUTING. THE PARTY ERECTING THE RUNWAY BEAM IS RESPONSIBLE FOR SHIMMING, PLUMBING, AND LEVELING OF THE RUNWAY BEAMS. WHEN ALIGNING THE RUNWAY BEAMS, THE ALIGNMENT SHOULD BE WITH RESPECT TO THE BEAM WEBS SO THAT THE CENTER OF THE ALIGNED RAIL IS OVER BEAM WEB.

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KIRBY BUILDING SYSTEMS

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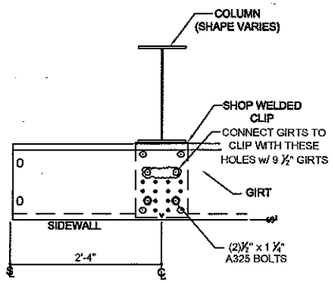
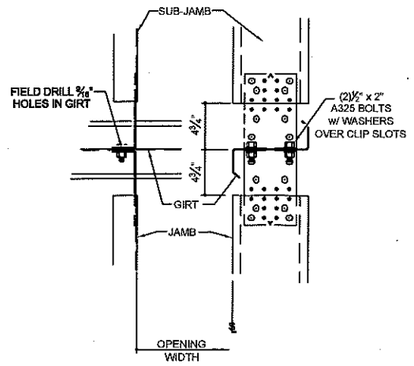
BUYER:	J HERBERT CONSTRUCTION	DATE:	02/12/18
PROJECT:	COLUMBUS McKINNON	CKD.BY:	KAB
LOCATION:	SALEM, OH	DATE:	2-19-18
JOB NO:	K18K0011A	DWG.NO:	E16 OF: 16



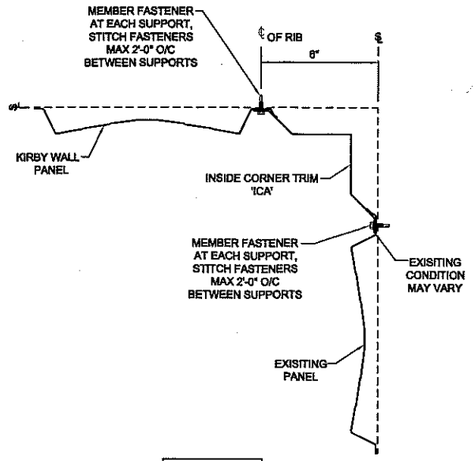
CF0057X

RIGID FRAME CORNER COLUMN w/ BY-FRAME SIDEWALL GIRTSAND OPEN ENDWALL



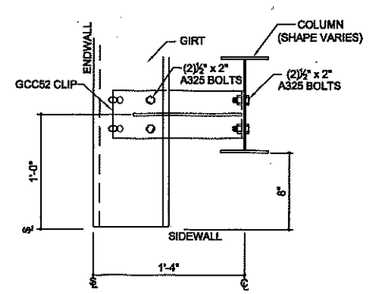
CG0518

STANDARD JAMB & SUB-JAMB CONNECTION TO ZEE GIRT



GC0140X

KIRBY WALL PANEL
INSIDE CORNER DETAIL



CF0050X

RIGID FRAME CORNER COLUMN w/ OPEN SIDEWALL

GC1320

KIRBY WALL PANEL OUTSIDE CORNER TRANSITION

CG2520

STANDARD JAMB CONNECTION TO HOT ROLL CEE HEADER w/ SUB-JAMB

CG0540X

BY-FRAME SILL CONNECTION TO "I" SHAPE COLUMN

FOR CONSTRUCTION

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GENERAL NOTES:

1. SHEETING AND TRIM FASTENERS ARE THE SAME COLOR AS THE FIRST PIECE OF SHEET METAL THROUGH WHICH THE FASTENER PASSES.
2. BRONZE COLORED TUBE SEALANT IS PROVIDED FOR DARK BRONZE (DB) AND BURNISHED SLATE (BS) SHEETING AND TRIM APPLICATIONS. WHITE TUBE SEALANT IS PROVIDED FOR ALL OTHER COLORS.
3. FASTENERS FOR ALL TRIM ARE REQUIRED AT 12" ON CENTER UNLESS NOTED OTHERWISE. USE TUBE SEALANT AT ALL TRIM SPLICES.
4. USE 1/2" x 1-1/4" A325 BOLTS AT ALL PURLIN AND GIRT LAPS.
5. USE 1/2" x 1-1/4" A325 BOLTS FOR ALL SECONDARY-TO-PRIMARY FRAMING CONNECTIONS (UNLESS OTHERWISE NOTED).
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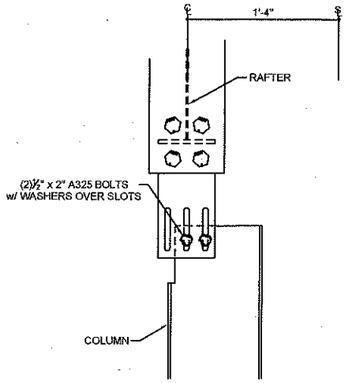
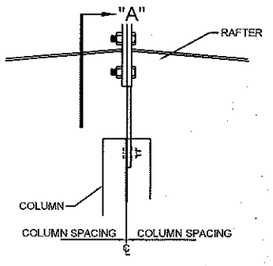


SECTION "A"

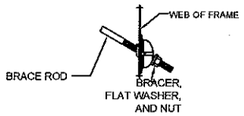


AD2210

I-SHAPED ENDWALL COLUMNS TO RIGIDFRAME RAFTER AT PEAK

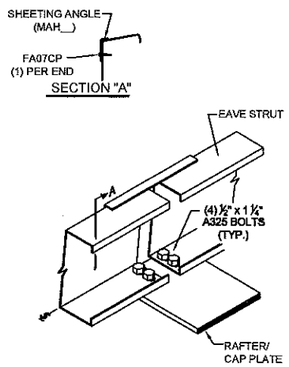
AG0011

STANDARD FLANGE BRACE ATTACHMENT



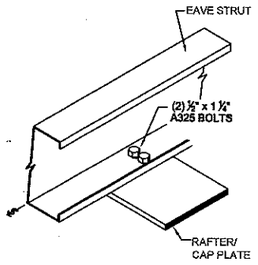
AF0011

BRACE ROD TO FRAME ATTACHMENT



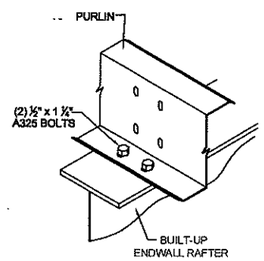
BA0020

EAVE STRUT CONNECTION AT INTERIOR FRAMES w/ BY-FRAME SIDEWALL COLUMNS



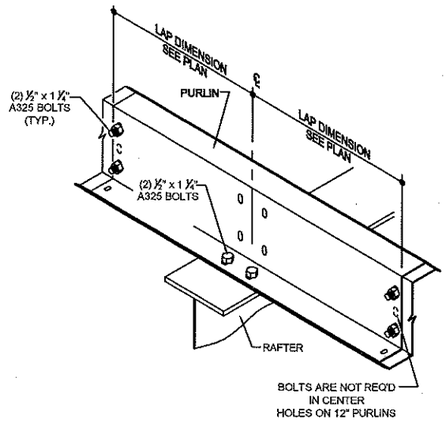
BA0030

STANDARD EAVE STRUT CONNECTION AT END FRAMES



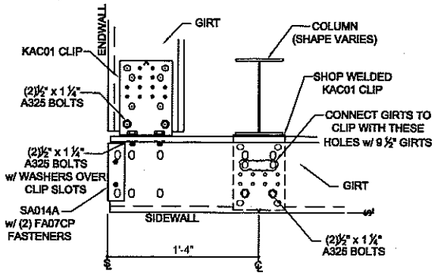
BB0040

PURLIN CONNECTION TO BUILT-UP OR RIGID FRAME ENDWALL RAFTERS



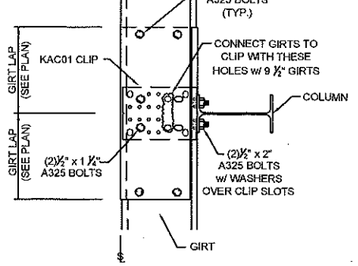
BB0045

STANDARD PURLIN CONNECTION TO INTERIOR RAFTERS



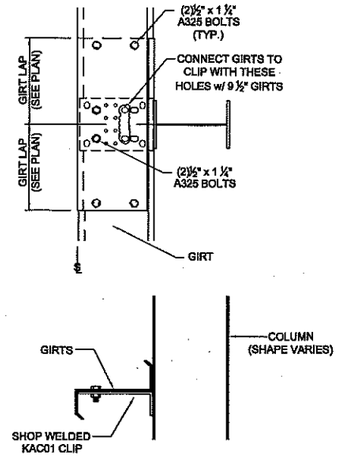
CF0041

RIGID FRAME CORNER COLUMN w/ BY-FRAME SIDEWALL GIRTS



CC0012

BY-FRAME GIRT CONNECTION TO "I" SHAPE ENDWALL COLUMN w/ LOOSE CLIPS



CC1010

BY-FRAME GIRT CONNECTION TO "I" SHAPE COLUMN

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GENERAL NOTES:

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2. BRONZE COLORED TUBE SEALANT IS PROVIDED FOR DARK BRONZE (DB) AND BURNISHED SLATE (BS) SHEETING AND TRIM APPLICATIONS. WHITE TUBE SEALANT IS PROVIDED FOR ALL OTHER COLORS.
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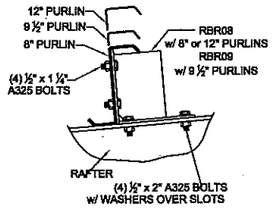
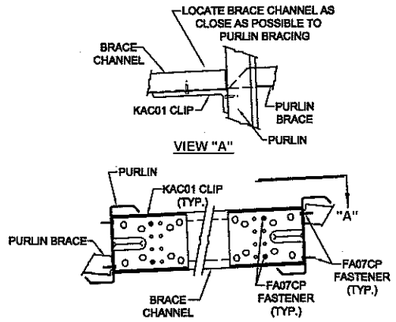
KIRBY BUILDING SYSTEMS

TITLE:	ERECTION DETAILS	DRN.BY:	CRP
BUYER:	J HERBERT CONSTRUCTION	DATE:	02/12/18
PROJECT:	COLUMBUS McKINNON	CKD.BY:	KAS
LOCATION:	SALEM, OH	DATE:	2-15-18
JOB NO:	K18K0011A	DWG.NO:	D2 OF: 6



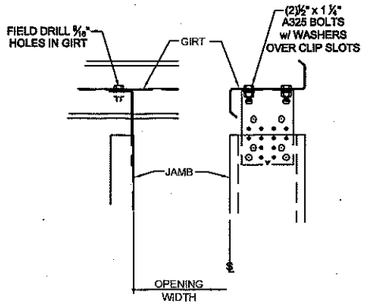
BE0220

ANTI-ROLL BRACKET ATTACHMENT



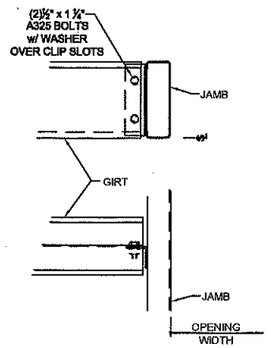
BE0120

BRACE CHANNEL ATTACHMENT FOR ROOF SLOPES ≤ 1:12



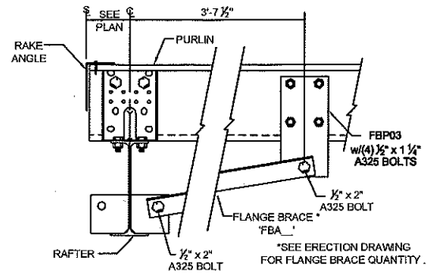
CG0517

STANDARD JAMB CONNECTION TO ZEE GIRT



CG0561

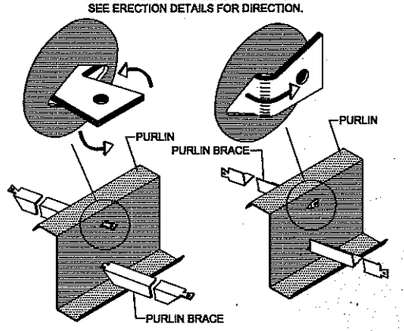
GIRT CONNECTION TO JAMB



AF0231

ENDWALL COLUMN BRACE DETAIL

NOTE
PURLIN BRACES ARE INSTALLED DIAGONALLY ALTERNATING IN POSITIONS. SEE ERECTION DETAILS FOR DIRECTION.

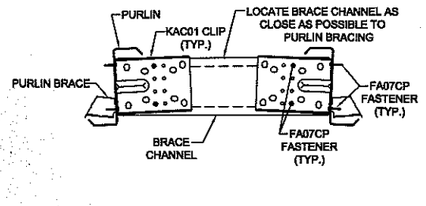


STEP 1
INSERT PURLIN BRACE TABS INTO DIAMOND HOLES AND ROTATE BRACE UNTIL TABS ARE VERTICAL.

STEP 2
BEND PURLIN BRACE TABS FLAT AGAINST PURLIN WEB TO LOCK IN PLACE

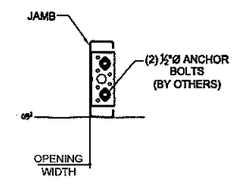
BE0010

STANDARD PURLIN BRACE INSTALLATION



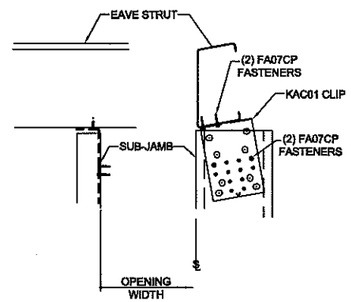
BE0121

BRACE CHANNEL ATTACHMENT AT PEAK FOR ROOF SLOPES ≤ 1:12



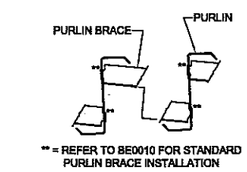
CG0501

STANDARD JAMB BASE CONNECTION



CG0682

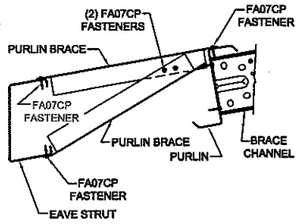
STANDARD SUB-JAMB CONNECTION TO EAVE STRUT



** = REFER TO BE0010 FOR STANDARD PURLIN BRACE INSTALLATION

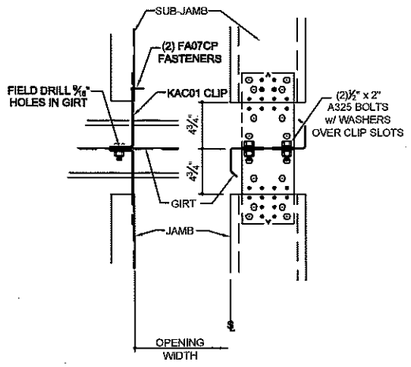
BE0100

STANDARD PURLIN BRACE ATTACHMENT FOR ROOF SLOPES ≤ 1:12



BE0130

PURLIN BRACE ATTACHMENT AT EAVE FOR ROOF SLOPES ≤ 4:12



CG0518

STANDARD JAMB & SUB-JAMB CONNECTION TO ZEE GIRT

FOR CONSTRUCTION

GENERAL NOTES:

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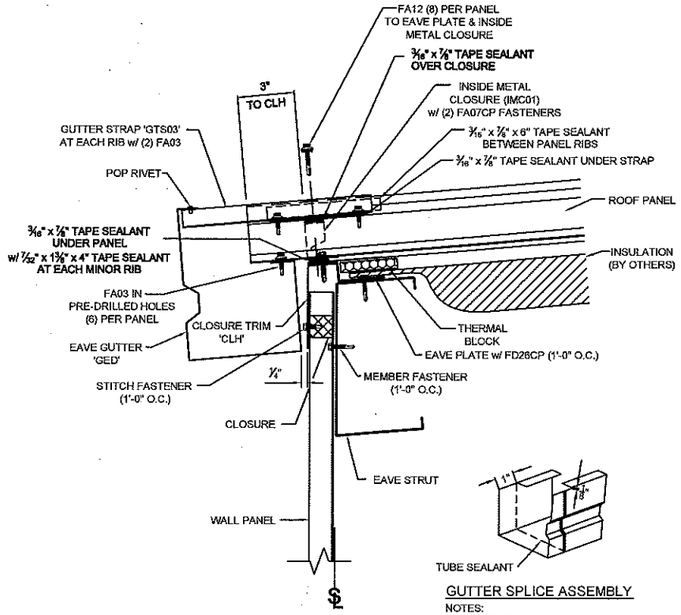
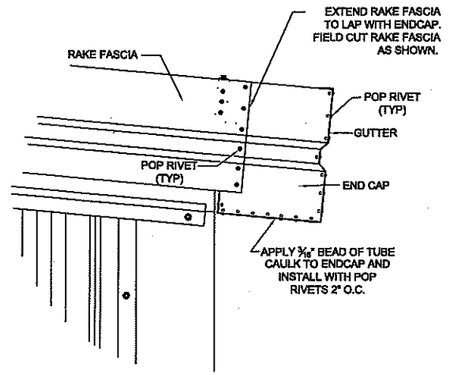


GUTTER SPLICE ASSEMBLY

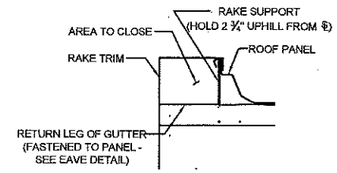
NOTES:
1. FIELD TRIM BOTH FLANGES OF INSIDE GUTTER SECTION AS SHOWN.
2. APPLY 1/4" BEAD OF SEALANT 1/4" FROM OUTER EDGE ON OUTER SECTION.
3. PLACE GUTTER SECTIONS TOGETHER WITH 1" LAP.
4. SECURE GUTTER SECTIONS TOGETHER WITH POP RIVETS.

ED6013

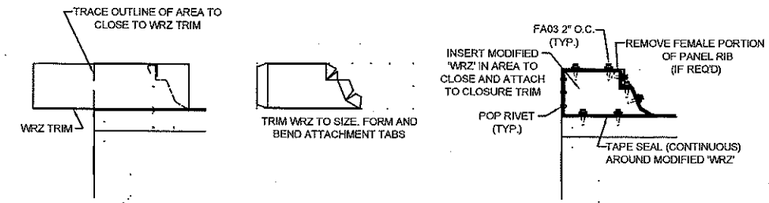
KIRBYLOK HIGH SYSTEM OR 5" HIGH SYSTEM w/ GUTTER AND SHEETING WALL FOR ROOF SLOPES ≤ 2:12



VIEW 'A'

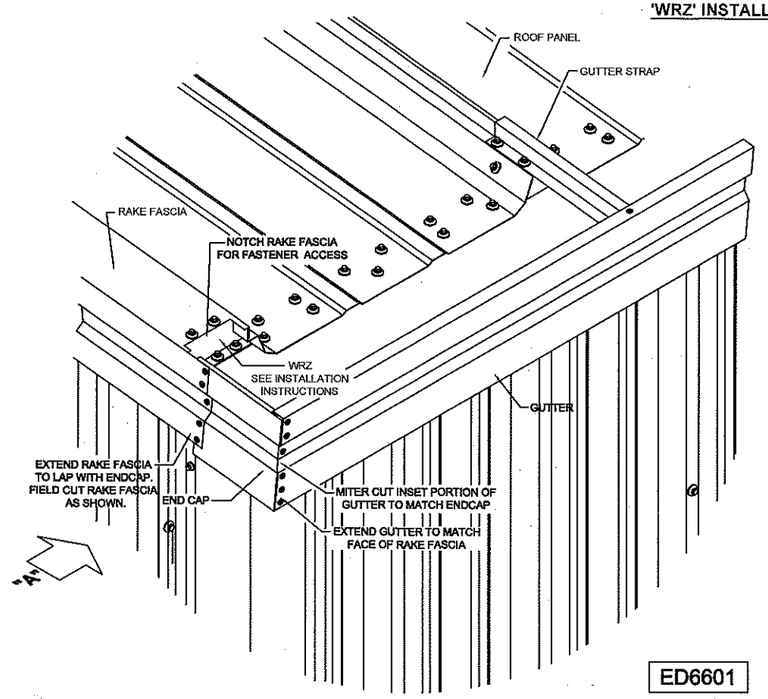


SECTION THRU END



STEP 1 STEP 2 STEP 3

'WRZ' INSTALLATION INSTRUCTIONS



ED6601

GUTTER TO RAKE FASCIA CORNER DETAIL w/ KIRBY LOK ROOF

FOR CONSTRUCTION

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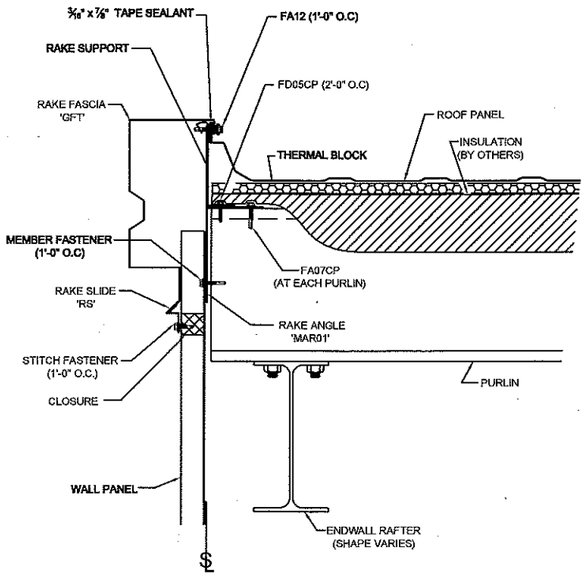
GENERAL NOTES:

1. SHEETING AND TRIM FASTENERS ARE THE SAME COLOR AS THE FIRST PIECE OF SHEET METAL THROUGH WHICH THE FASTENER PASSES.
2. BRONZE COLORED TUBE SEALANT IS PROVIDED FOR DARK BRONZE (DB) AND BURNISHED SLATE (BS) SHEETING AND TRIM APPLICATIONS. WHITE TUBE SEALANT IS PROVIDED FOR ALL OTHER COLORS.
3. FASTENERS FOR ALL TRIM ARE REQUIRED AT 12" ON CENTER UNLESS NOTED OTHERWISE. USE TUBE SEALANT AT ALL TRIM SPLICES.
4. USE 1/2" x 1-1/4" A325 BOLTS AT ALL PURLIN AND GIRT LAPS.
5. USE 1/2" x 1-1/4" A325 BOLTS FOR ALL SECONDARY-TO-PRIMARY FRAMING CONNECTIONS (UNLESS OTHERWISE NOTED).
6. BOLT LENGTH OR STRENGTH MAY VARY IF NOTED ON ERECTION DRAWINGS.
7. DRAWINGS MAY NOT BE TO SCALE.
8. WARNING: PENCIL LEAD AND MARKER WILL CAUSE GALV. PANELS AND TRIM PIECES TO RUST. DO NOT USE THESE TO MARK ON PARTS.

ISSUE	DESCRIPTION	BY	DATE
0	CONSTRUCTION	CRP	02/12/18

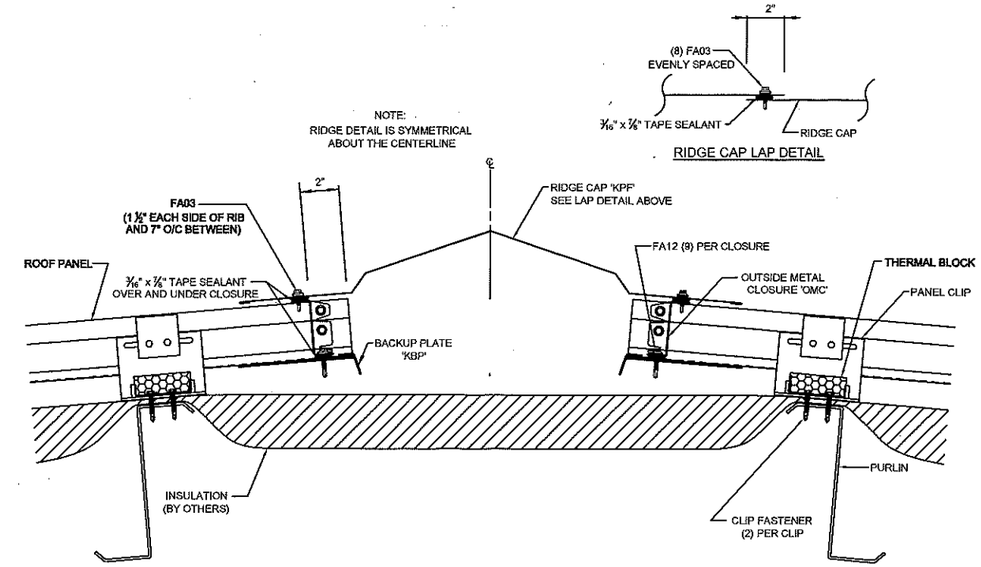
KIRBY BUILDING SYSTEMS

TITLE:	ERECTION DETAILS	DRN.BY:	CRP
BUYER:	J HERBERT CONSTRUCTION	DATE:	02/12/18
PROJECT:	COLUMBUS McKINNON	CKD.BY:	KAB
LOCATION:	SALEM, OH	DATE:	2-19-18
JOB NO:	K18K0011A	DWG.NO:	D4 OF: 6



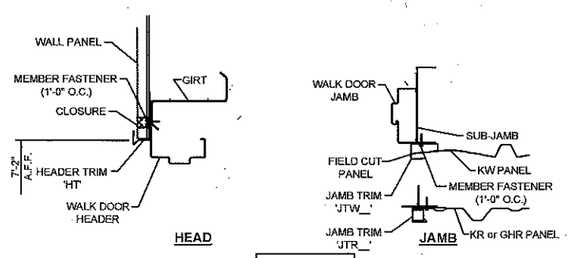
EE6011

TRAPEZOIDAL PANEL RAKE DETAIL ON MODULE
W/ SHEETED WALL WITH SLOPE ≤ 2:12



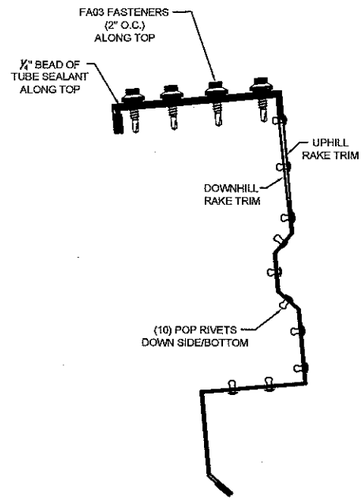
EG6011

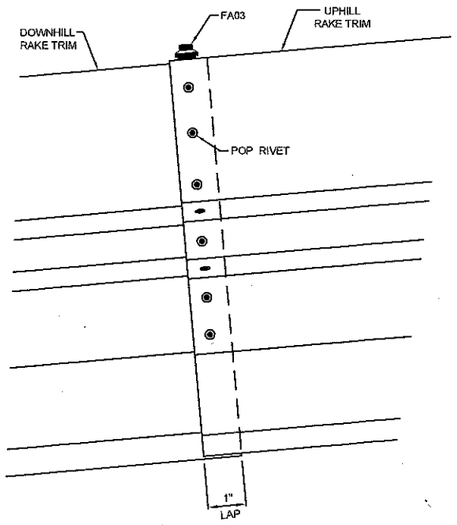
KIRBYLOK RIDGE DETAIL



GA0821

WALK DOOR TRIM DETAIL
w/ 8" GIRTS & KR, GHR OR KW WALL PANEL





EE6001

RAKE TRIM LAP DETAIL

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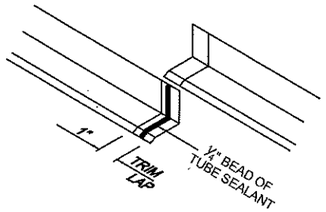
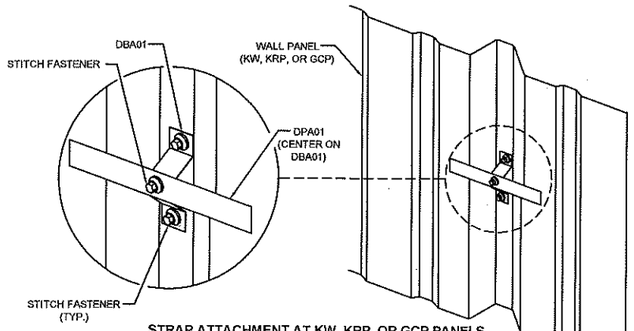
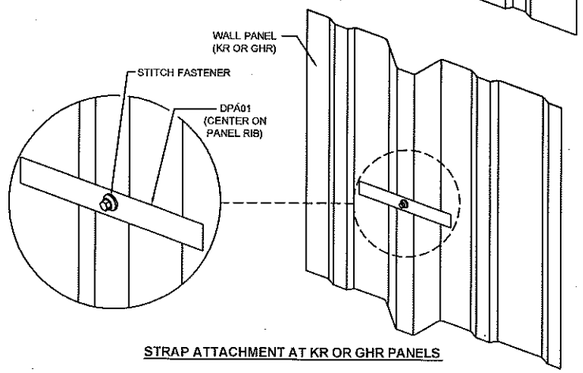


GA0030

TYPICAL TRIM LAP



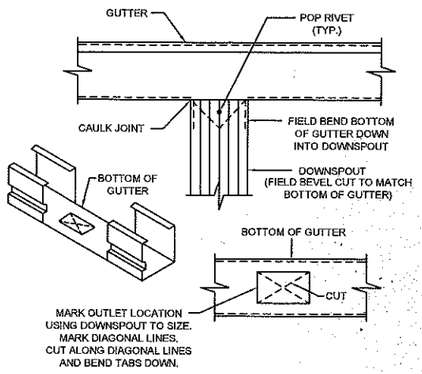
STRAP ATTACHMENT AT KW, KRP, OR GCP PANELS



STRAP ATTACHMENT AT KR OR GHR PANELS

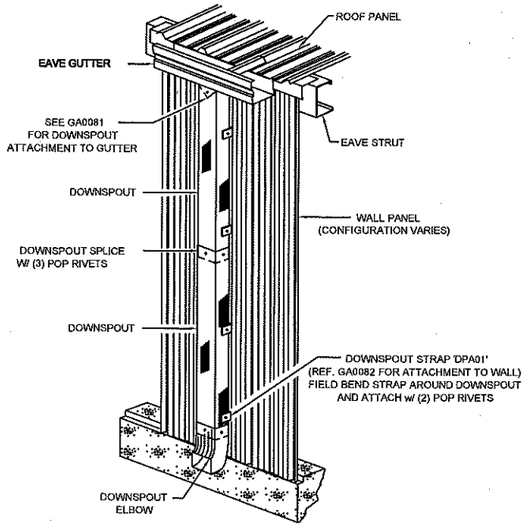
GA0082

STANDARD DOWNSPOUT STRAP INSTALLATION



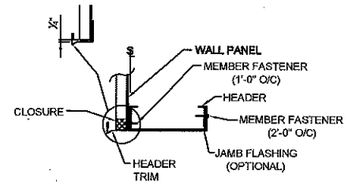
GA0081

DOWNSPOUT CONNECTION TO GUTTER



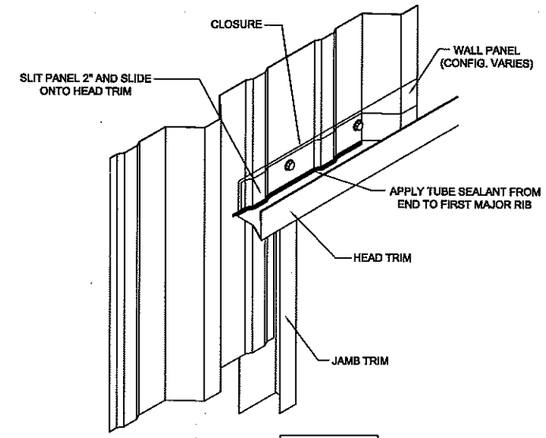
GA0085

STANDARD DOWNSPOUT LAYOUT WITH FULL HEIGHT WALL PANEL



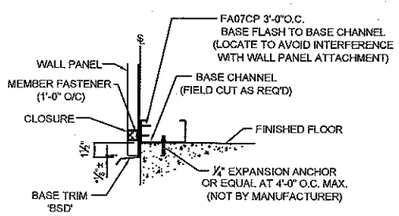
GD0020

HEADER TRIM DETAIL



GD0041

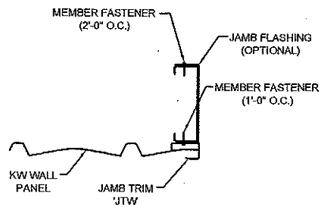
FRAMED OPENING HEAD TO JAMB TRIM DETAIL



*NOTE: HOLD ¼"± GAP BETWEEN BASE OF PANEL & BASE FLASH

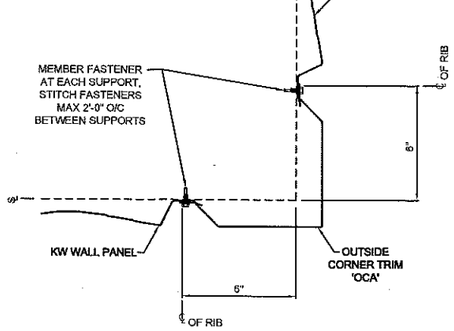
GB0021

BASE w/ BASE FLASH AND BASE CHANNEL



GD0140

KIRBY WALL PANEL TO JAMB CONNECTION



GC0110

KIRBY WALL PANEL OUTSIDE CORNER DETAIL

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