

Freedom Steel Building Corporation

PROJECT NUMBER: T0700449A
 PROJECT NAME: JAMES MIDDLETON
 PROJECT LOCATION: CHOCTAW, OK COUNTY: OKLAHOMA

DATE	9/27/07
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BUILDING LOADS

DESIGN CODE: IBC 2006 BUILDING END USE: 3A
 ROOF LIVE LOAD: 20 PSF MBMA OCC. CLASS: II-96
 REDUCIBLE PER CODE
 GROUND SNOW LOAD: 10 PSF SNOW EXP. FACTOR, Ce: 1
 SNOW IMPORTANCE FACTOR, Is: 1
 WIND: 90 mph WIND IMPORTANCE FACTOR, Iw: 1
 EXPOSURE: C WITHIN HURRICANE COASTLINE YES NO

UL 90 YES NO
 Classic Roof-Const. No. 161; Classic Roof w/ Translucent Panel-Const. No. 167
 CFR Roof-Const. No. 590; CFR Roof w/ Translucent Panel-Const. No. 590;
 VR16 Roof-Const. No. 506
 SEISMIC INFORMATION Ss:0.306, S1:0.084
 Design Sds/Sd1: 0.317/0.134 Site Class: D
 Seismic Imp. Factor Ie: 1 Seismic Design Category: C
 Analysis Procedure: Equivalent Lateral Force Method
 Basic SFRS: NOT DETAILED FOR SEISMIC

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 200 POUNDS, 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.

	BUILDING	
	Bldg. 1	Bldg. 2
ROOF DEAD (PSF):	3.00	3.00
PRI. COL. (PSF):	0.50	0.50
SEC. COL. (PSF):	0.50	0.50
SNOW C1:	1	1
SNOW C2:	1	1
ROOF SNOW (PSF):	7	10
WIND ENCLOSURE:	Enclosed	Enclosed
GCp1:	+/-0.18	+/-0.18
SEISMIC R:	3.0	3.0
SEISMIC C2:	0.106	0.106
BASE SHEAR (KIPS):	7.7	2.6

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ERECTION MANUALS REQUIRED
 (ERECTION MANUALS ARE SHIPPED WITH THE BUILDING IN A WAREHOUSE PACKING CRATE)

CFR ROOF (H9600) OR (H8250) SINGLE CURB (H9850)
 CLASSIC ROOF (H9420) OR (H8201) DOUBLE CURB (H9800)
 WALL SHEETING (H9430) OR (H8300) VR16 (H9900)
 JOIST BRIDGING PACKET (SENT SEPARATELY BY JOIST MANUFACTURER)

DRAWING INDEX

COVERSHEET C1 A/BOLT DWGS F1, F2
 COLUMN BASE REACTIONS R1-R14 (SEPARATE 8 1/2" X 11" SUBMITTAL)
 STRUCTURAL/SHEETING DRAWINGS E1,E2,E3,E4,E5,E6,E7,E8,E9,E10,E11,E12,
E13,E14
 DETAILS D1,D2,D3,D4,D5,D6

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PROJECT NAME: JAMES MIDDLETON
 CHOCTAW, OK

JOB NUMBER: T0700449A

SHEET NO: C1 of 1



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NOTES AND SPECIFICATIONS

BUILDING ERECTION NOTES

- 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 MBMA 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.
- ALL HIGH STRENGTH BOLTS ARE TYPE ASTM A325 AND ARE TO BE INSTALLED TO THE "SNUG-TIGHT" CONDITION AS DEFINED BY THE RCSC SPECIFICATION FOR STRUCTURAL JOINTS USING A325 OR A490 BOLTS, 2004 EDITION, SECTION B.1, UNLESS NOTED OTHERWISE. ALSO, NOTE THAT BOLTS IN STANDARD HOLES DO NOT REQUIRE WASHERS PER ASTM A325, SECTION 5 (b).
- ALL A307 MACHINE BOLTS ARE TO BE BROUGHT TO A "SNUG TIGHT" CONDITION TO ENSURE THAT THE MATERIALS IN THE JOINT ARE BROUGHT INTO GOOD CONTACT WITH EACH OTHER.
- WASHERS ARE REQUIRED AT ALL SLOTTED CONNECTIONS AS FOLLOWS:
 -HOLE TO SLOT CONNECTION, ONE WASHER REQUIRED ON SLOTTED SIDE.
 -SLOT TO SLOT CONNECTION, TWO WASHERS REQUIRED, ONE ON EACH SIDE OF THE CONNECTION.
 HOWEVER AT LAPPED MEMBERS, WHETHER PURLINS OR GIRTS, NO WASHERS ARE REQUIRED IN THE B-BOLT LAPPED REGION.
- 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.
- ALL WELDING MUST BE PERFORMED BY AWS QUALIFIED WELDERS FOR THE WELDING PROCESSES AND POSITIONS INDICATED. ALL WORK MUST BE COMPLETED AND INSPECTED IN ACCORDANCE WITH THE APPLICABLE AWS SPECIFICATIONS. WELD ELECTRODES USED FOR THE SMAW (OR STICK) WELD PROCESS MUST BE 70 KSI STEEL AND LOW HYDROGEN CONTENT.

COMMON ABBREVIATIONS:

a) TYP UNO-TYPICAL UNLESS NOTED OTHERWISE	i) SIM.-SIMILAR
b) SLV-SHORT LEG VERTICAL	j) NC-NOT IN CONTRACT
c) LLV-LONG LEG VERTICAL	k) SL-STEEL LINE
d) NS & FS-NEAR SIDE AND FAR SIDE	l) N/A-NOT APPLICABLE
e) O.A.L.-OVERALL LENGTH	m) MBS-METAL BUILDING SUPPLIER

- CONSTRUCTION LOADS SHALL NOT BE PLACED ON ANY STRUCTURAL STEEL FRAMEWORK UNLESS SUCH FRAMEWORK IS SAFELY BOLTED, WELDED, OR OTHERWISE ADEQUATELY SECURED.
- 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.
- 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.
- 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.
- 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 AND MATERIAL SPECIFICATIONS

- ALL STRUCTURAL STEEL SECTIONS AND WELDED PLATE MEMBERS ARE DESIGNED IN ACCORDANCE WITH THE AISC "SPECIFICATIONS FOR STRUCTURAL STEEL BUILDINGS-ALLOWABLE STRESS DESIGN", NINTH EDITION, OR THE AISC "SPECIFICATIONS FOR STRUCTURAL STEEL BUILDINGS", THIRTEENTH EDITION, AS REQUIRED BY THE SPECIFIED BUILDING CODE.
- ALL WELDING OF STRUCTURAL STEEL IS BASED ON AWS D1.1 "STRUCTURAL WELDING CODE", LATEST EDITION.
- ALL COLD FORMED MEMBERS ARE DESIGNED IN ACCORDANCE WITH AISI "SPECIFICATIONS FOR THE DESIGN OF COLD FORMED STEEL STRUCTURAL MEMBERS", LATEST EDITION.
- ALL WELDING OF COLD FORMED STEEL IS BASED ON AWS D1.3 "STRUCTURAL WELDING CODE - SHEET STEEL", LATEST EDITION.
- 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 STANDARD FOR STEEL ERECTION, DATED JANUARY 18, 2001.
- MATERIAL SPECIFICATIONS:
 PLATE AND FLANGE MATERIAL:
 5"-12" WIDE & THRU 1" THICK A529, GRADE 55
 OTHERS A36
 BUILT-UP STRUCTURAL WEB MATERIAL A1011 SS (OR HSLAS CL1) GR 55
 HOT-ROLLED STRUCTURAL A36 OR A572 GRADE 50
 STRUCTURAL TUBE A500 GRADE B (46 KSI)
 STRUCTURAL PIPE A500 GRADE B (42 KSI)
 COLD-FORMED STRUCTURAL A1011 SS (OR HSLAS CL1) GR 55
 RPB ROOF PANELS A792 GRADE 80
 STANDING SEAM ROOF PANELS A792 GRADE 50, CLASS 1
 R-PANEL AND A-PANEL SIDING A653 GRADE 50, CLASS 1 OR A792 GRADE 50, CLASS 1
 ROD BRACING A529 GRADE 50
 CABLE BRACING A475 COATING CLASS A, GRADE EHS, 7-WIRE
 WELDS AWS D1.1 LATEST EDITION
 HIGH-STRENGTH BOLTS A325 TYPE 1 HEAVY HEX OR A490 TYPE 1 HEAVY HEX
 MACHINE BOLTS A-307 GRADE A HEX

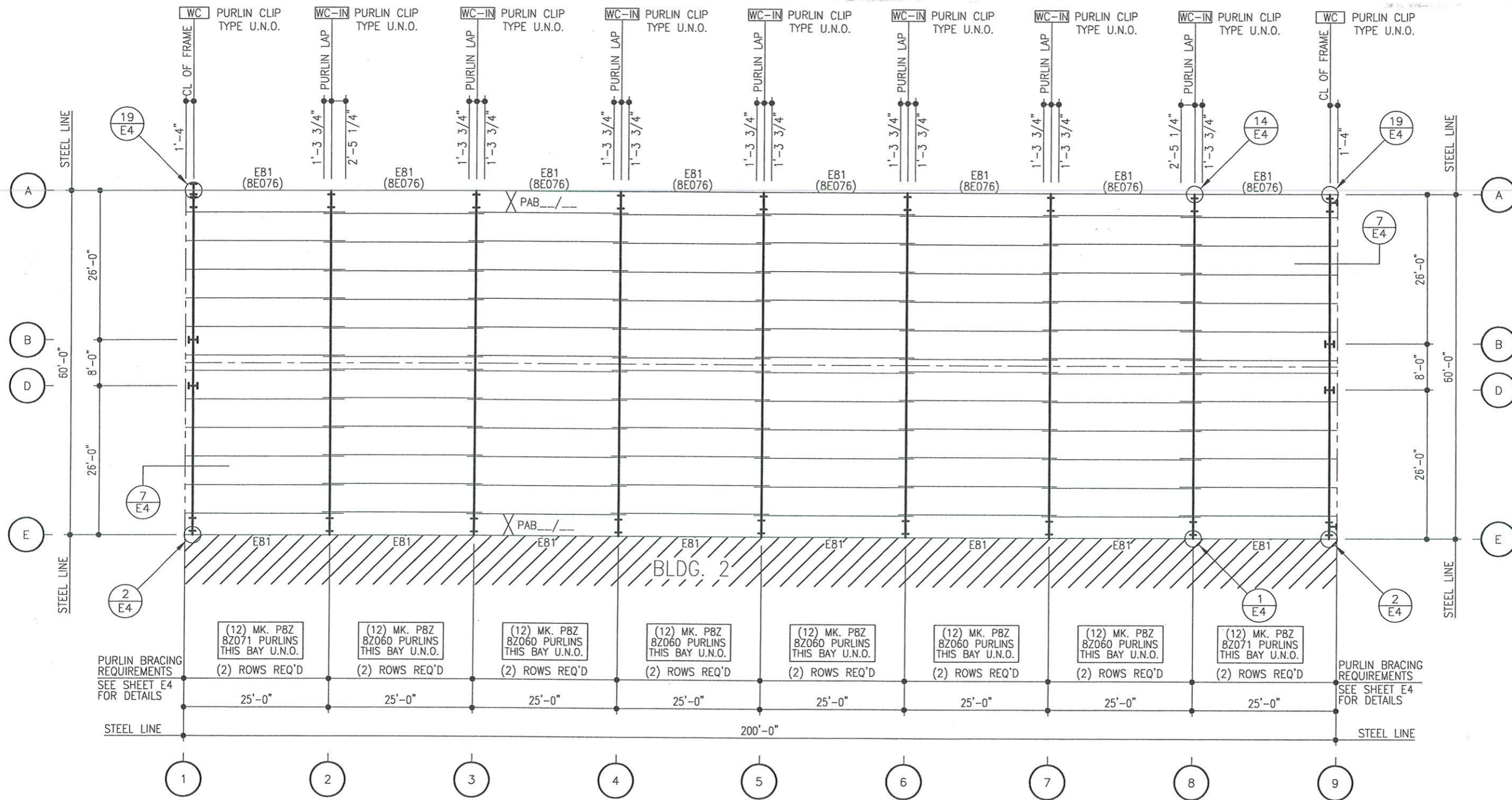
PRIMARY AND SECONDARY STEEL PRIMER COLOR: RED

ROOF SHEETING, TYPE: CLASSIC 26 GAGE, FINISH: GALVALUME
 ROOF PANEL CLIP TYPE: N/A TALL SHORT UTILITY FIXED FLOATING
 THERMAL BLOCKS: YES NO EPS FOAM SPACER: YES NO
 SEAMING METHOD (FOR CFR ONLY): "ROLL LOCK"TM "WISE LOCK"TM "WISE LOCK 360"TM
REFER TO THE DETAIL PAGES FOR ADDITIONAL SEAMING INFORMATION
CLASSIC AND CFR GUTTER HANGERS ARE PROVIDED IN GALVANIZED COLOR ONLY. VR16 GUTTER HANGERS ARE AVAILABLE COLORED.
 COMPOSITE ROOF DECK, TYPE: N/A GAGE, FINISH: _____
 ROOF DECK ONLY, TYPE: N/A GAGE, FINISH: _____
 ROOF LINE TRIM, PAINTED: BRICK RED
 EXTERIOR WALL SHEETING, TYPE: CLASSIC WALL 26 GAGE, FINISH: LIGHTSTONE
 EXTERIOR WALL CORNER TRIM FINISH: BRICK RED
 EXTERIOR BASE TRIM, PAINTED: LIGHTSTONE
 FRAMED OPENING TRIM, PAINTED: BRICK RED
 FRAMED OPENING COVER TRIM, PAINTED: BRICK RED
 WALL FRAMED OPENING, SIZES: (5) 20'-0"x18'-0" (1) 5'-0"x5'-0" (1) 37'-0"x8'-5"

INTERIOR WALL SHEETING, TYPE: N/A GAGE, FINISH: _____
 INTERIOR CEILING LINER, TYPE: N/A GAGE, FINISH: _____
 INTERIOR WALL TRIM, PAINTED: N/A

YES NO
 DOWNSPOUTS PAINTED: LIGHTSTONE GUTTERS PAINTED: BRICK RED
 WALKDOORS, QUANTITY: (5) 3070 PAINTED: POLAR WHITE
 WINDOWS: (16) 4030 PAINTED: POLAR WHITE
 INSULATION (NOT BY MBS), ROOF: 6" BATT WALLS: 6" BATT
 CRANES (SEE CRANE PLAN FOR ADDITIONAL CRANE INFORMATION)
 MEZZANINE (SEE MEZZANINE PLAN FOR ADDITIONAL MEZZANINE INFO)
 WALL TRANSLUCENT PANELS, LENGTH: _____ QUANTITY: _____
 ROOF TRANSLUCENT PANELS, LENGTH: _____ QUANTITY: _____
 INSULATED PANELS YES NO
 PIPE JACKS, SIZE: _____ QUANTITY: _____
 ROOF FRAMED OPENINGS, SEE ROOF FRAMING PLAN FOR SIZES
 ROOF CURBS (BY MBS), SEE ROOF FRAMING PLAN FOR SIZES
 RIDGE VENTS, 10'-0" LONG X 12" 9" THROAT, QUANTITY: 19
 SINGLE UNITS CONTINUOUS UNITS

YES NO
 FASCIA, PROJECTION: _____ TOP OF FASCIA HEIGHT: _____
 FACE PANEL, TYPE: _____ GAGE, FINISH: _____
 BACK PANEL, TYPE: _____ GAGE, FINISH: _____
 CAP TRIM PAINTED: _____ BASE TRIM PAINTED: _____
 CLOSED SYSTEM, CLEAR UNDER SOFFIT TRIM: _____
 SOFFIT PANEL, TYPE: _____ GAGE, FINISH: _____
 SOFFIT TRIM AT BUILDING LINE PAINTED: _____
 OPEN SYSTEM, (NO SOFFIT PANEL PROVIDED)
 CLEAR UNDER FASCIA: _____
 PARAPET SYSTEM
 STRUCTURAL PARAPET NON-STRUCTURAL PARAPET NOT BY MBS
 TOP OF PARAPET HEIGHT: _____
 BACKER PANEL, TYPE: _____ GAGE, FINISH: _____
 CANOPY (EXPOSED BEAM), PROJECTION: 15'-1"
 AT EAVE LINE BELOW EAVE
 ROOF PANEL, TYPE: CLASSIC 26 GAGE, FINISH: GALVALUME
 SOFFIT PANEL, TYPE: N/A GAGE, FINISH: _____
 SOFFIT TRIM AT BUILDING LINE PAINTED: N/A
 CLEAR UNDER CANOPY BEAM: 22'-0"
 BOXED-OUT CANOPY, PROJECTION: _____ AT EAVE LINE BELOW EAVE
 ROOF PANEL, TYPE: _____ GAGE, FINISH: _____
 FACE PANEL, TYPE: _____ GAGE, FINISH: _____
 SOFFIT PANEL, TYPE: _____ GAGE, FINISH: _____
 SOFFIT TRIM AT BLDG LINE PAINTED: _____
 CLEAR UNDER SOFFIT: _____ BASE TRIM PAINTED: _____
 EAVE EXTENSION (CONCEALED BEAM), PROJECTION: _____
 SOFFIT PANEL, TYPE: _____ GAGE, FINISH: _____
 SOFFIT TRIM AT BUILDING LINE PAINTED: _____
 RAKE EXTENSION, PROJECTION: _____
 SOFFIT PANEL, TYPE: _____ GAGE, FINISH: _____
 SOFFIT TRIM AT BUILDING LINE PAINTED: _____
 PARTITION WALL SHEETING
 PANEL TYPE: _____ GAGE, FINISH: _____
 PARTITION WALL TRIM COLOR: _____



BLDG. 1 ROOF FRAMING PLAN

- 1) PURLIN AND EAVE STRUT CONNECTION BOLT REQUIREMENTS:
A307 AND A325 BOLTS ARE BOTH USED. REFER TO THE DETAILS FOR SPECIFIC USAGE REQUIREMENTS.
- 2) ALL EAVE STRUTS ARE 8E060 U.N.O.
- 3) SEE SHEET E7-E9 FOR MAIN FRAME FLANGE BRACING.
- 4) SEE SHEET E4 FOR PURLIN BRACING DETAIL.

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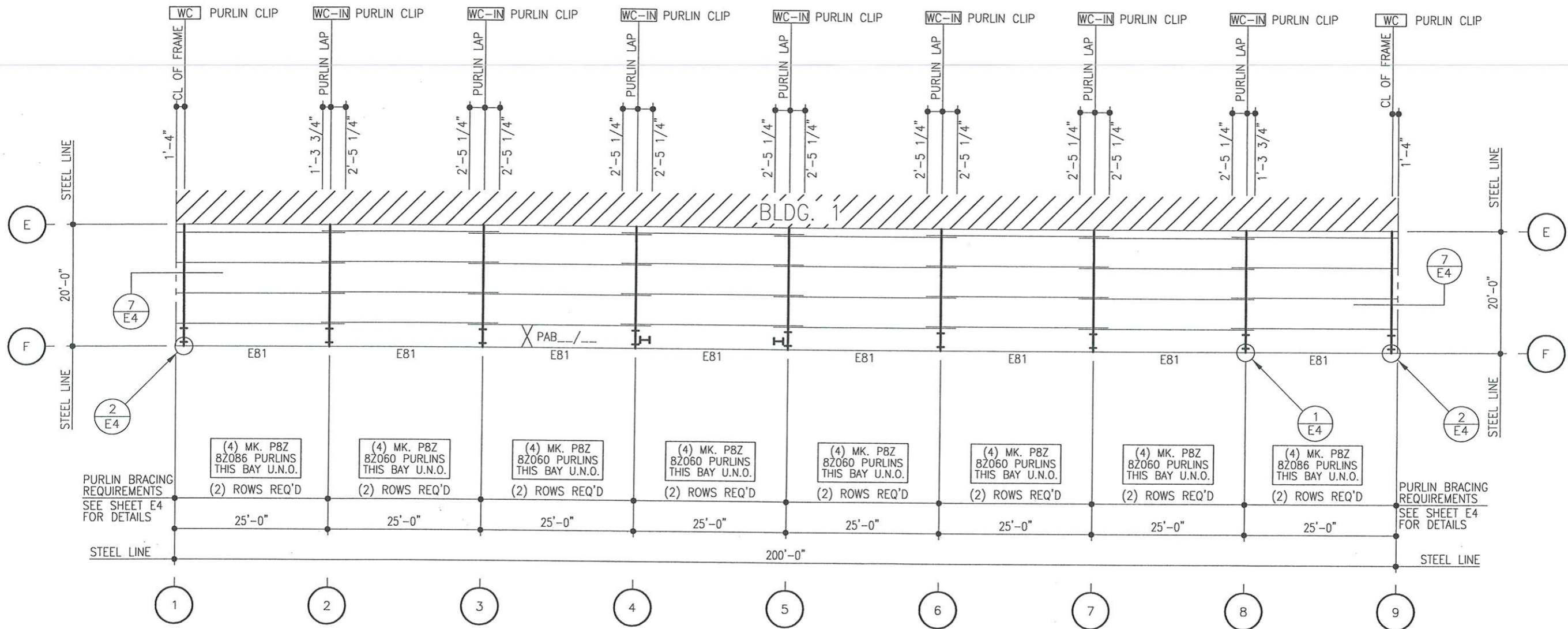
PROJECT NAME:
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CHOCTAW, OK

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SHEET NO:
E1 of 14



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BLDG. 2 ROOF FRAMING PLAN

- 1) PURLIN AND EAVE STRUT CONNECTION BOLT REQUIREMENTS:
A307 AND A325 BOLTS ARE BOTH USED. REFER TO THE DETAILS FOR SPECIFIC USAGE REQUIREMENTS.
- 2) ALL EAVE STRUTS ARE 8E060 U.N.O.
- 3) SEE SHEET E10 FOR MAIN FRAME FLANGE BRACING.
- 4) SEE SHEET E4 FOR PURLIN BRACING DETAIL.

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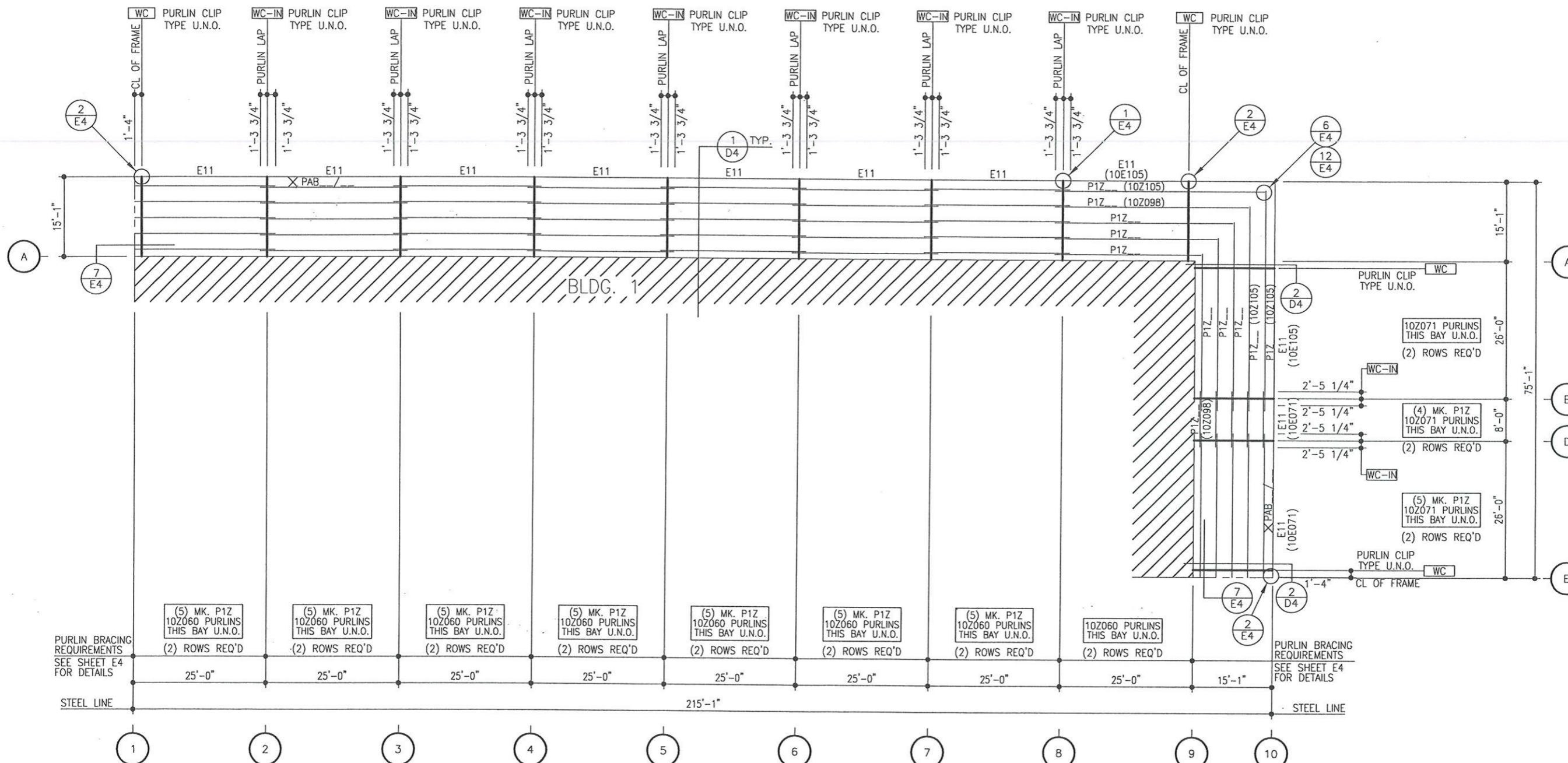
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CANOPY ROOF FRAMING PLAN

- 1) PURLIN AND EAVE STRUT CONNECTION BOLT REQUIREMENTS:
A307 AND A325 BOLTS ARE BOTH USED. REFER TO THE DETAILS FOR SPECIFIC USAGE REQUIREMENTS.
- 2) ALL EAVE STRUTS ARE 10E060 U.N.O.
- 3) SEE SHEET E4 FOR PURLIN BRACING DETAIL.

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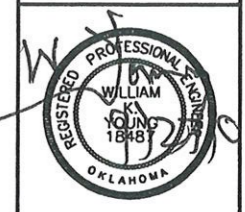
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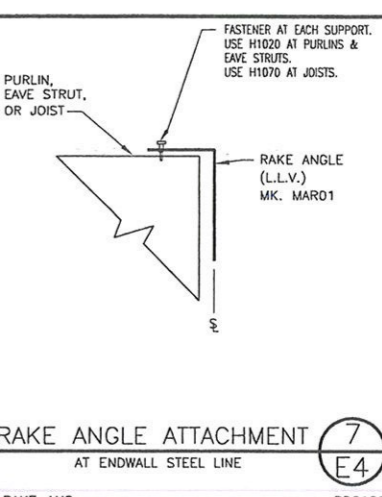
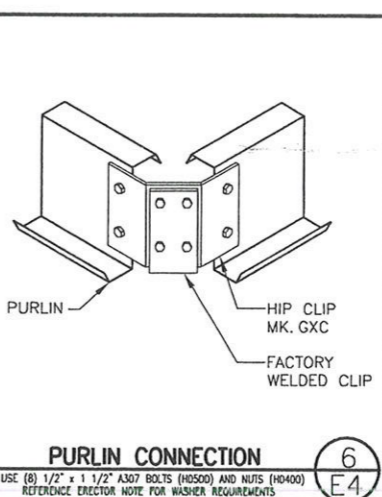
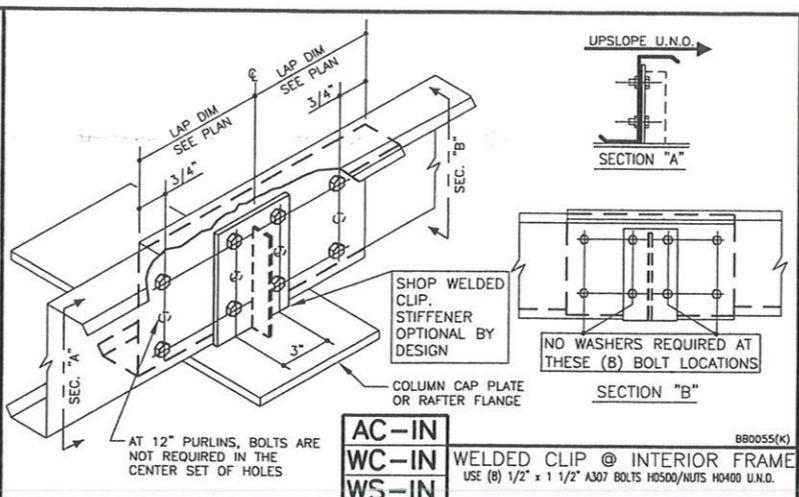
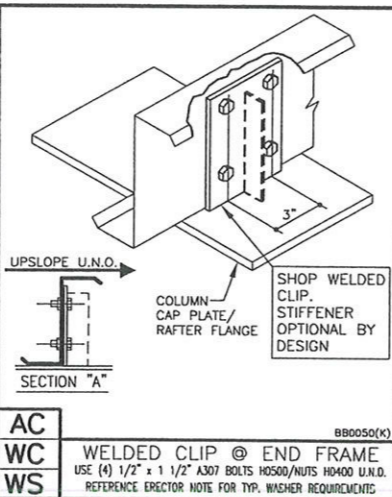
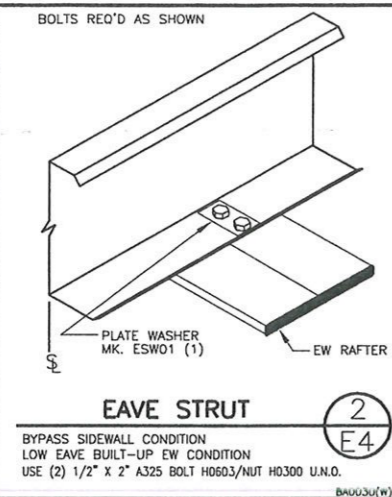
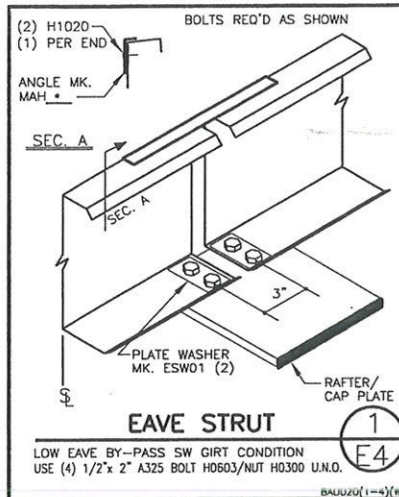
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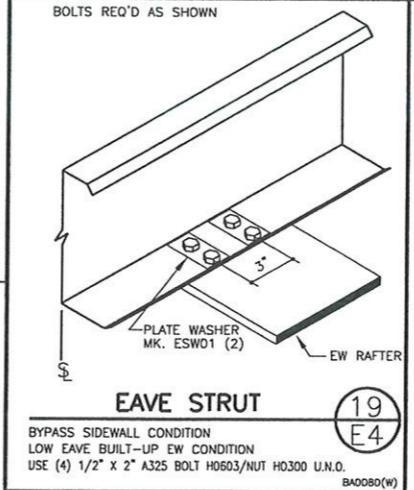
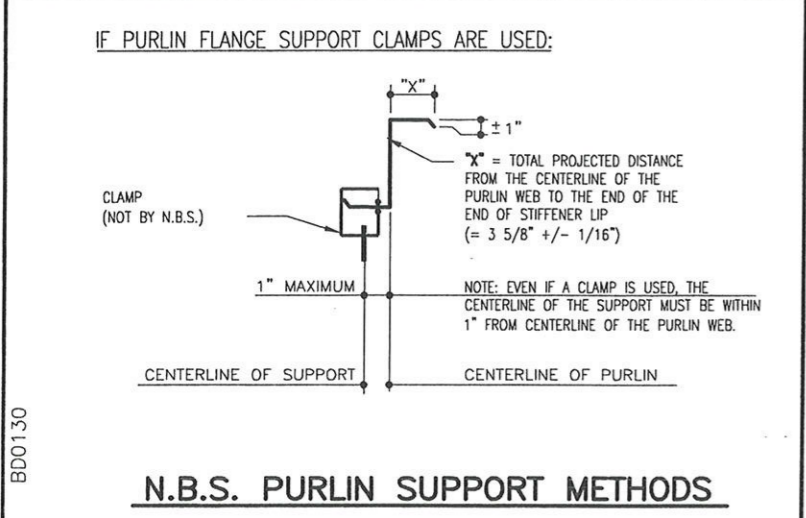
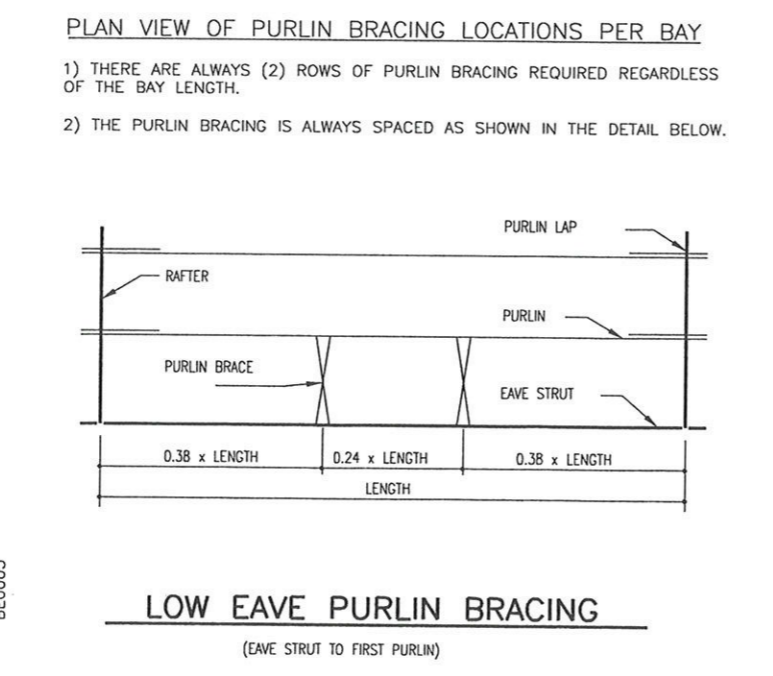
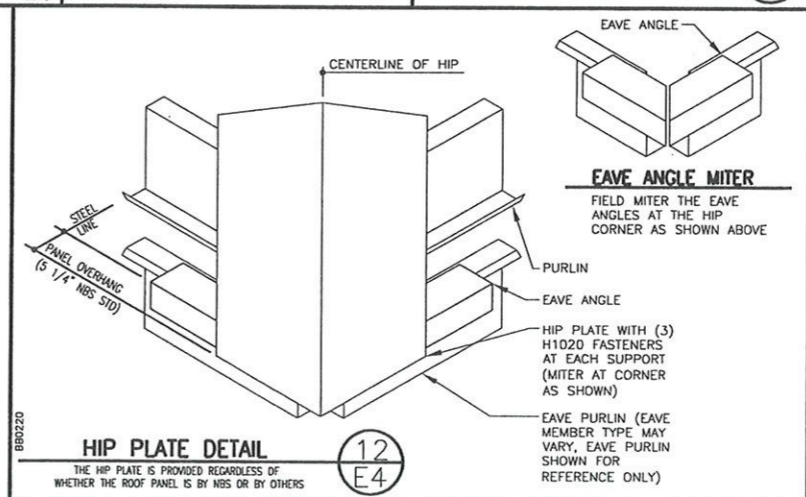
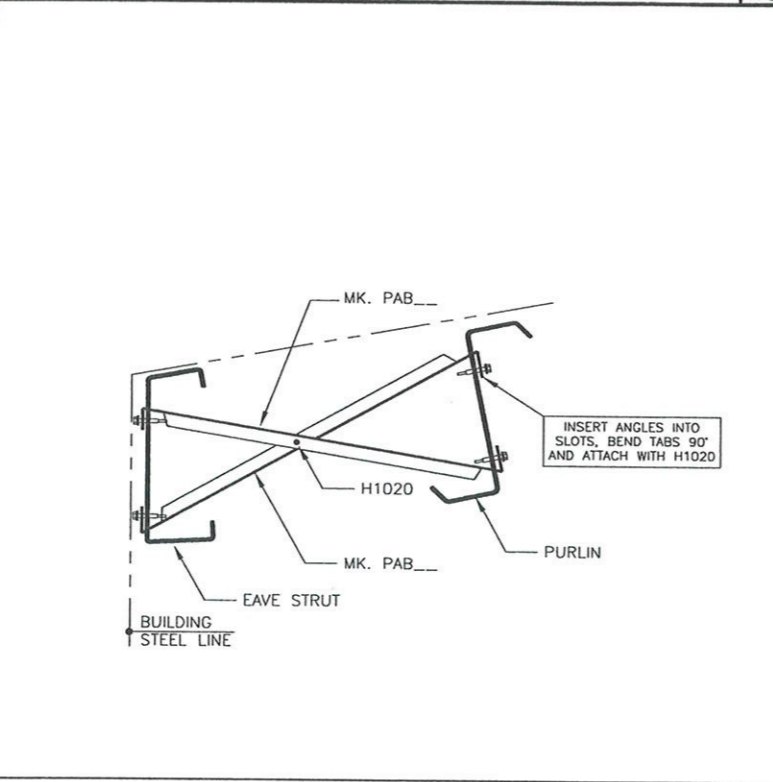
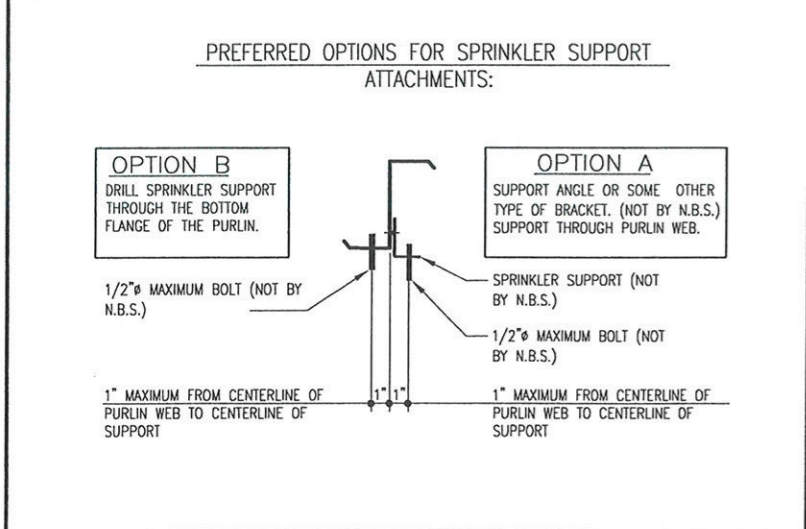


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GENERAL RESTRICTION:
 UNDER NO CIRCUMSTANCES CAN THE PURLIN STIFFENING LIP BE FIELD MODIFIED FROM THE FACTORY SUPPLIED CONDITION. ALSO DO NOT HANG ANYTHING FROM PURLIN STIFFENING LIP.



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BD0130

BE0005

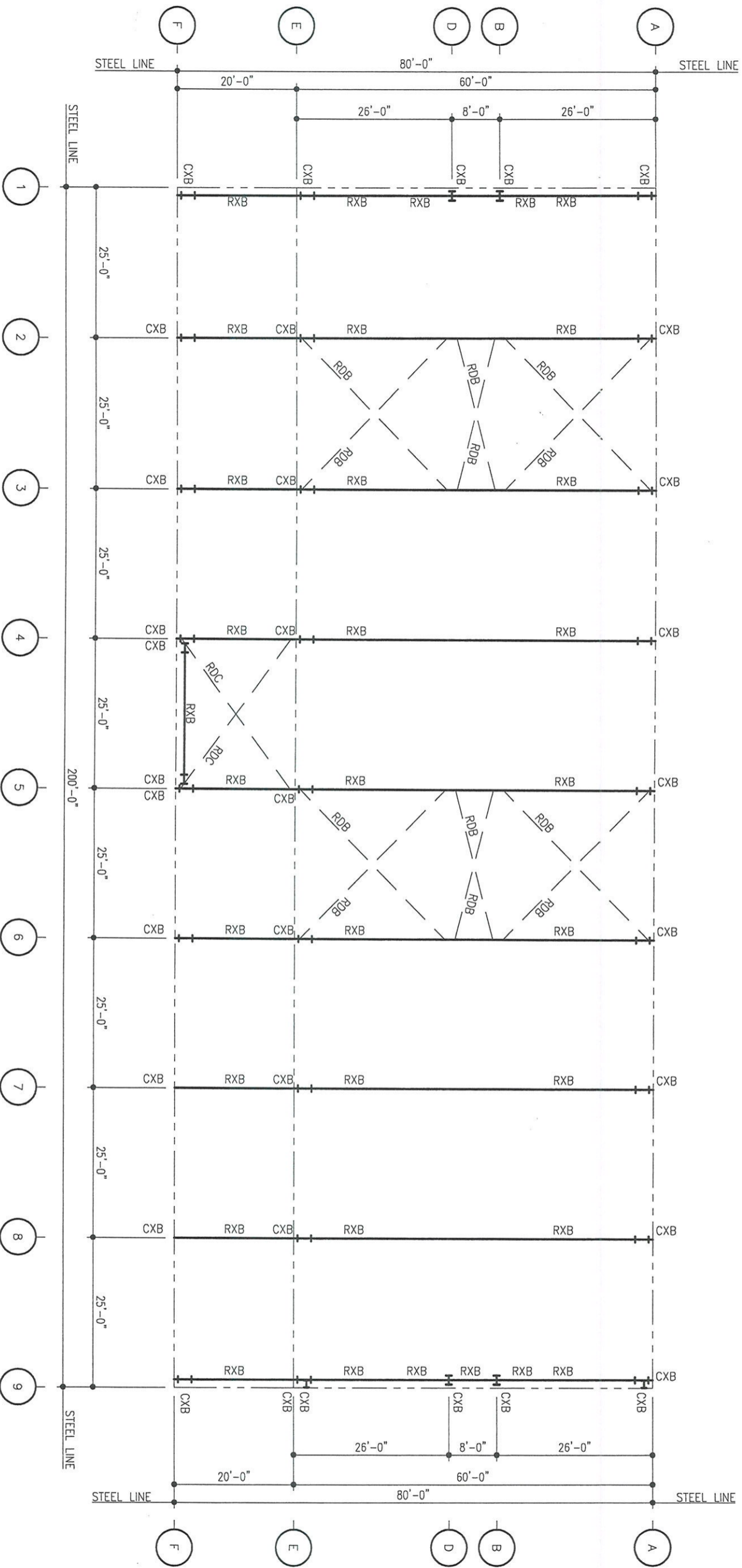
BAD080(W)

BDO120

BAD070(1-4)(W)

BBD055(K)

BBD050(K)



MARK NUMBER AND BRACING PLAN

- 1) PLACE TAGGED END OF RAFTERS TOWARD THE LOW EAVE.
- 2) ROD-BRACING: SEE SHEET D1 FOR DETAIL
- RDB --- INDICATES 5/8" Ø ROD
- RDC --- INDICATES 3/4" Ø ROD

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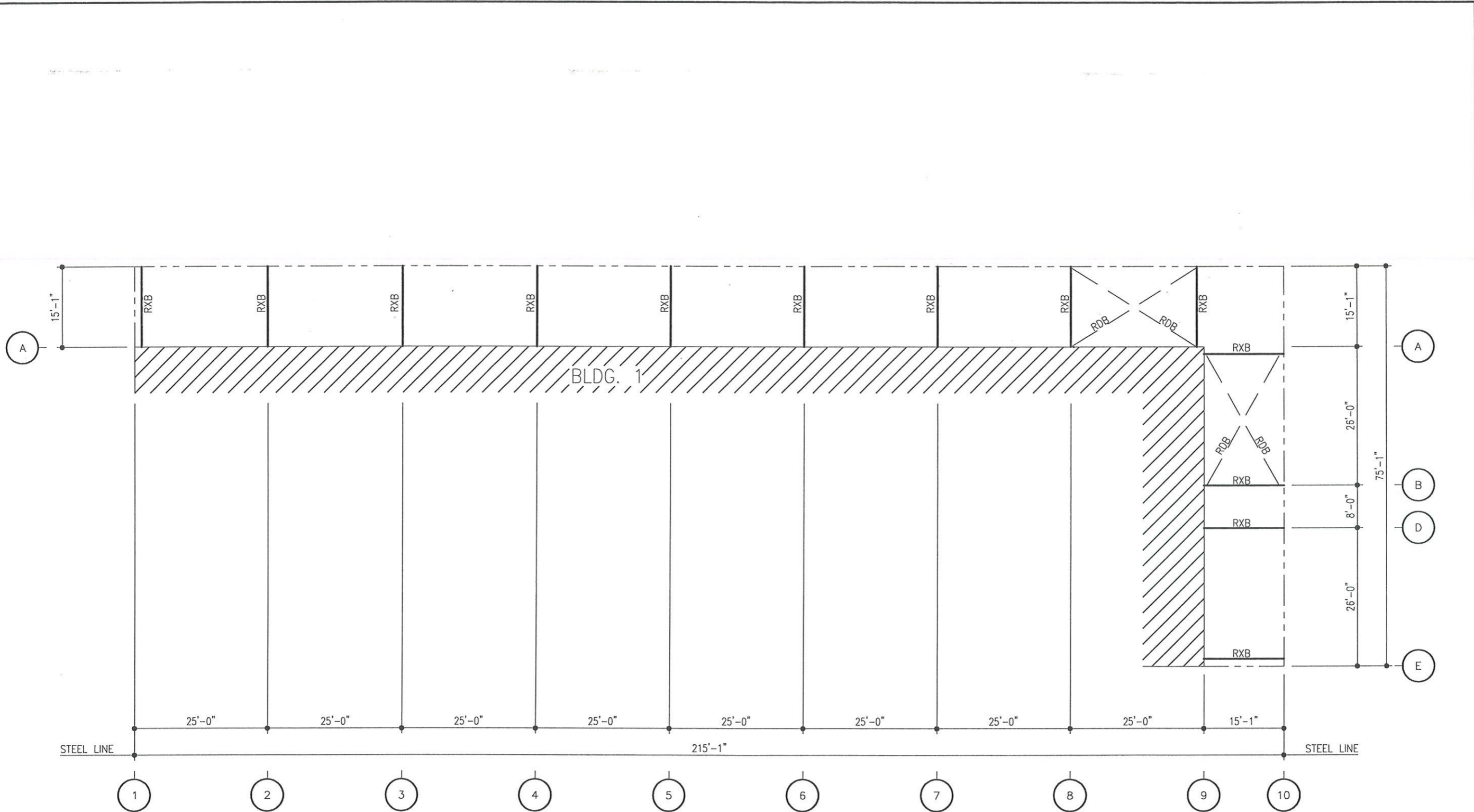
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**CANOPY
MARK NUMBER AND BRACING PLAN**

- 1) PLACE TAGGED END OF RAFTERS TOWARD THE LOW EAVE.
- 2) ROD-BRACING: SEE SHEET D1 FOR DETAIL
RDB__ - INDICATES 5/8" Ø ROD

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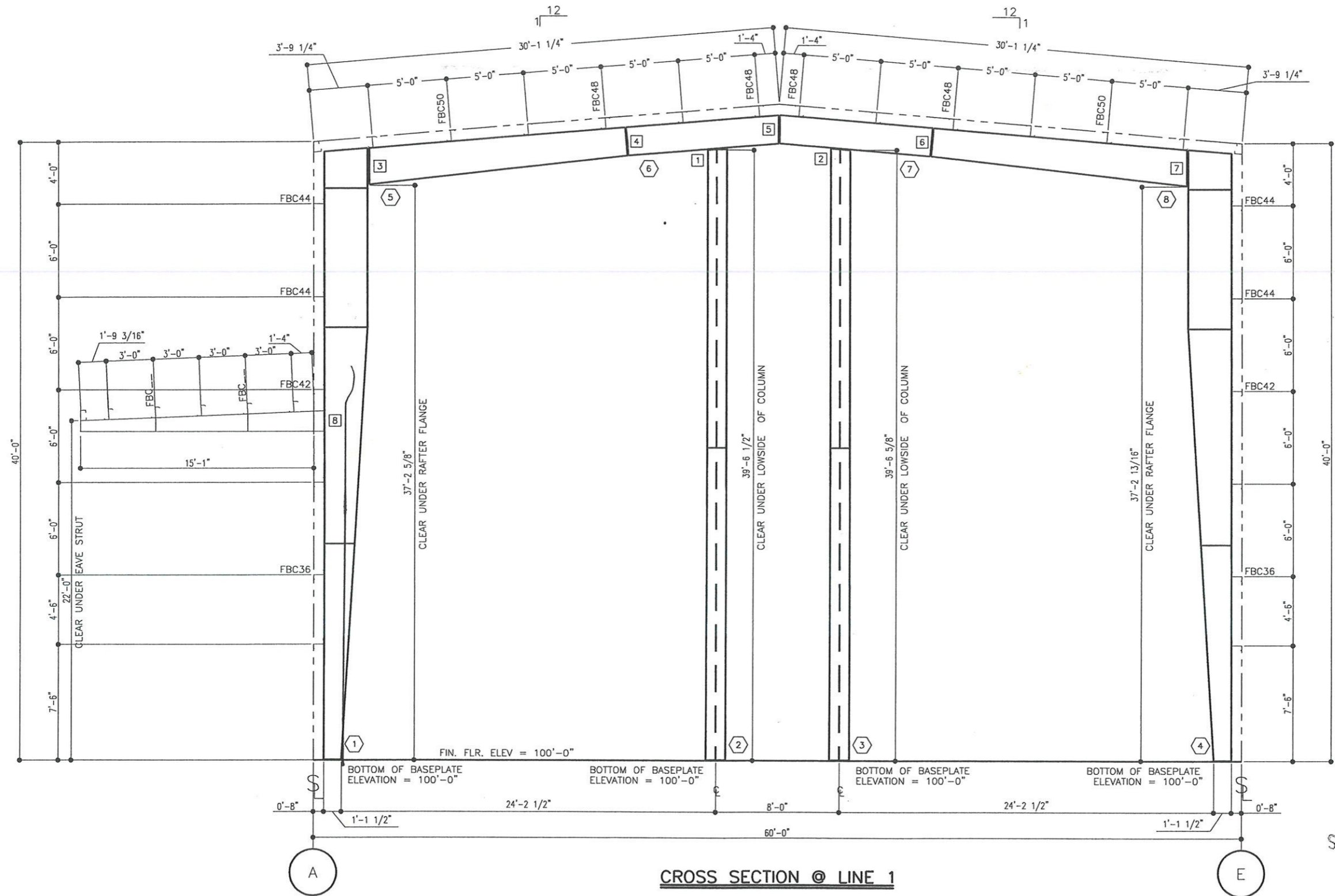
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SHEET NO:
E6 of 14



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CROSS SECTION @ LINE 1

MBR ID	LOW PLATE		HIGH PLATE		OUTSIDE FLANGE			INSIDE FLANGE			MEMBER WEB			
	WIDTH	THICK	WIDTH	THICK	WIDTH	THICK	LENGTH	WIDTH	THICK	LENGTH	DEPTH1	THICK	LENGTH	DEPTH2
1	8.00	0.38	6.00	0.63	6.00	0.25	472.00	6.00	0.25	336.63	13.00	0.15	168.00	23.25
								6.00	0.31	107.75	23.25	0.15	168.00	33.44
											33.44	0.18	107.75	33.44
											33.44	0.23	28.25	33.44
2	8.00	0.38	8.00	0.38	8.00	0.25	473.75	8.00	0.25	475.00	15.00	0.15	242.94	15.00
											15.00	0.15	230.81	15.00
											15.00	0.15	242.94	15.00
											15.00	0.15	230.94	15.00
3	8.00	0.38	8.00	0.38	8.00	0.25	473.88	8.00	0.25	475.13	13.00	0.15	168.00	23.25
											23.25	0.15	168.00	33.44
											33.44	0.18	108.13	33.44
											33.44	0.23	27.88	33.44
4	8.00	0.38	6.00	0.50	6.00	0.25	472.06	6.00	0.25	336.63	13.00	0.15	168.00	23.25
											23.25	0.15	168.00	33.44
											33.44	0.18	108.13	33.44
											33.44	0.23	27.88	33.44
5	6.00	0.75	6.00	0.38	6.00	0.31	197.69	6.00	0.31	200.13	28.00	0.18	197.69	22.00
6	6.00	0.38	6.00	0.38	6.00	0.25	119.19	6.00	0.25	117.38	22.00	0.15	119.25	22.00
7	6.00	0.38	6.00	0.38	6.00	0.25	119.19	6.00	0.25	117.38	22.00	0.15	119.25	22.00
8	6.00	0.50	6.00	0.38	5.00	0.25	198.06	5.00	0.25	200.50	28.00	0.18	198.06	22.00

NOTES:

- FOR COLUMN AND RAFTER MARK NUMBERS, SEE SHEET E5 & E6 (MARK NUMBER PLAN).
 - FBC___ INDICATES FLANGE BRACING LOCATIONS. FBD___ INDICATES FLANGE BRACING LOCATIONS ON JOIST ROOFS.
 - NS/FS INDICATES THAT FLANGE BRACING IS REQUIRED ON BOTH SIDES OF THE FRAME LINE. NOTE FOR EXPANDABLE ENDWALL RIGID FRAMES: IF FLANGE BRACING IS REQUIRED ON BOTH SIDES 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 FLANGE BRACING 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. IF THE INTERIOR COLUMNS ARE REQUIRED, ORIENT AND ERECT THOSE COLUMNS ACCORDINGLY.
- NOTE: COLUMNS LOCATED AT THE RIDGE ARE TYPICALLY "FLAT-TOP" COLUMNS, UNLESS INDICATED BY THE "*" SYMBOL.
- 6) 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

CON ID	BOLT QTY	BOLT DESCRIPTION	BOLT PART#	NUT PART#
1	4	BOLT/NUT 5/8" x 2 1/4" A325	H0610	H0310
2	4	BOLT/NUT 5/8" x 2 1/4" A325	H0610	H0310
3	8	BOLT/NUT 3/4" x 2 3/4" A325	H0630	H0340
4	8	BOLT/NUT 5/8" x 2 1/4" A325	H0610	H0310
5	8	BOLT/NUT 5/8" x 2 1/4" A325	H0610	H0310
6	8	BOLT/NUT 5/8" x 2 1/4" A325	H0610	H0310
7	8	BOLT/NUT 5/8" x 2 1/4" A325	H0610	H0310
8	16	BOLT/NUT 1" x 3 1/4" A325	H0640	H0330



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DATE	P.E.	ENG	CHK	DWN	ISSUE	PERMIT
9/27/07			AC	NK		

Freedom Steel
Building Corporation

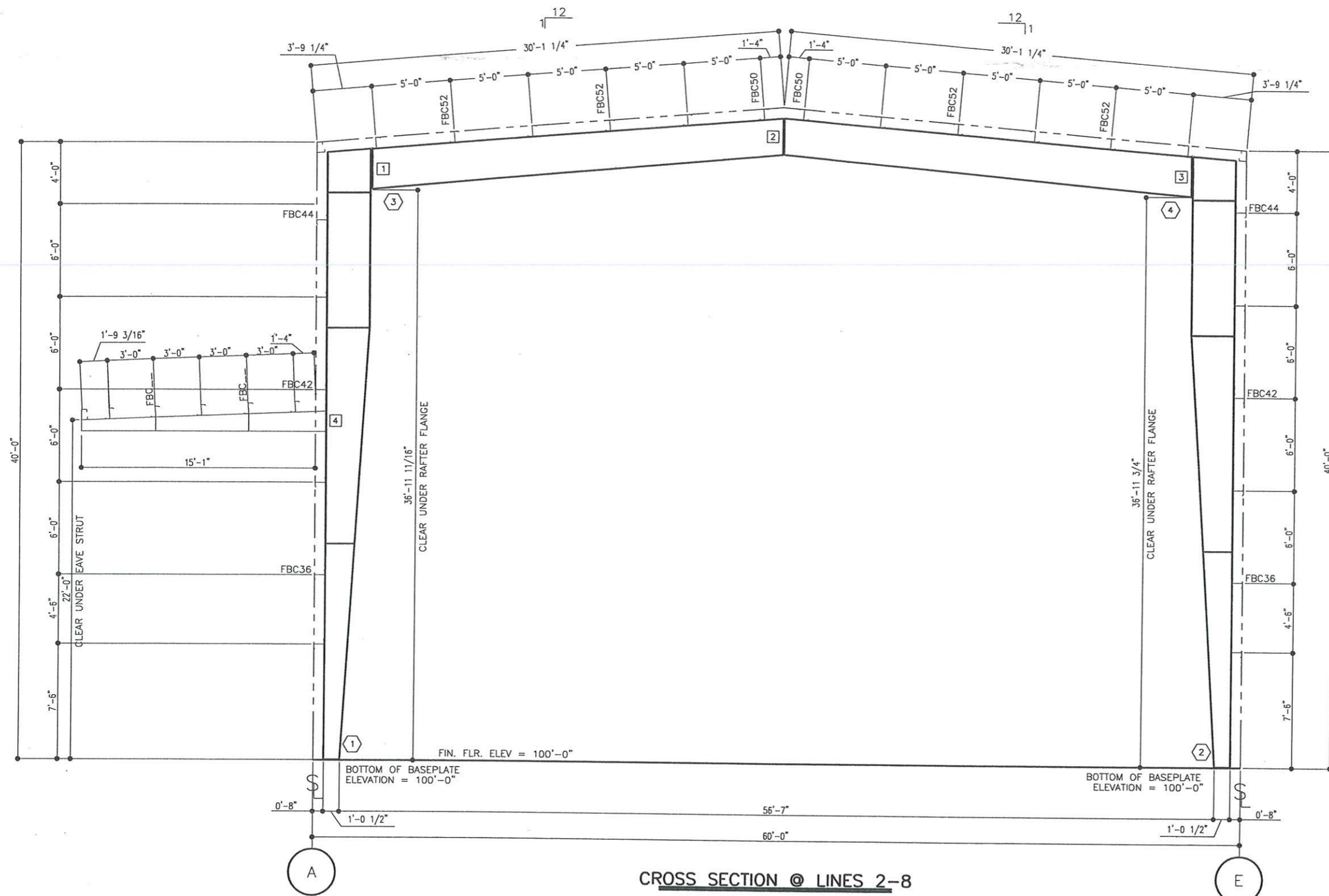
PHONE: (800) 390-2948
FAX: (800) 630-2946
EMAIL: engineering@freedomsteel.com

PROJECT NAME:
JAMES MIDDLETON
CHOCTAW, OK

JOB NUMBER:
T0700449A

SHEET NO:
E7 of 14

SEP 27 2007



CROSS SECTION @ LINES 2-8

SEP 27 2007

MBR ID	LOW PLATE		HIGH PLATE		OUTSIDE FLANGE			INSIDE FLANGE			MEMBER WEB			
	WIDTH	THICK	WIDTH	THICK	WIDTH	THICK	LENGTH	WIDTH	THICK	LENGTH	DEPTH1	THICK	LENGTH	DEPTH2
1	8.00	0.38	8.00	0.63	8.00	0.25	168.00	8.00	0.25	168.31	12.00	0.15	168.00	22.63
					8.00	0.31	168.00	8.00	0.31	168.31	22.63	0.18	168.00	33.25
					8.00	0.38	136.06	8.00	0.38	104.81	33.25	0.18	104.81	33.25
2	8.00	0.38	8.00	0.50	8.00	0.25	168.00	8.00	0.25	168.31	12.00	0.15	168.00	22.63
					8.00	0.31	168.00	8.00	0.31	168.31	22.63	0.18	168.00	33.25
					8.00	0.38	136.06	8.00	0.38	105.13	33.25	0.18	105.13	33.25
3	6.00	0.75	6.00	0.38	6.00	0.31	103.88	6.00	0.25	318.13	31.00	0.18	317.88	28.00
					6.00	0.25	214.00	6.00	0.25	318.13	31.00	0.18	317.88	28.00
					6.00	0.31	103.88	6.00	0.25	214.38	6.00	0.25	318.50	31.00
4	6.00	0.50	6.00	0.38	6.00	0.31	103.88	6.00	0.25	318.50	31.00	0.18	318.25	28.00
					6.00	0.25	214.38	6.00	0.25	318.50	31.00	0.18	318.25	28.00

NOTES:

- FOR COLUMN AND RAFTER MARK NUMBERS, SEE SHEET E5 & E6 (MARK NUMBER PLAN).
 - FBC___ INDICATES FLANGE BRACING LOCATIONS. FBD___ INDICATES FLANGE BRACING LOCATIONS ON JOIST ROOFS.
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- 6) 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				
CON ID	BOLT QTY	BOLT DESCRIPTION	BOLT PART#	NUT PART#
1	8	BOLT/NUT 3/4" x 2 3/4" A325	H0630	H0320
2	8	BOLT/NUT 5/8" x 2 1/4" A325	H0610	H0310
3	8	BOLT/NUT 5/8" x 2 1/4" A325	H0610	H0310
4	16	BOLT/NUT 1" x 3 1/4" A325	H0640	H0330

ISSUE	PERMIT	DWN	CHK	ENG	P.E.	DATE
						9/27/07

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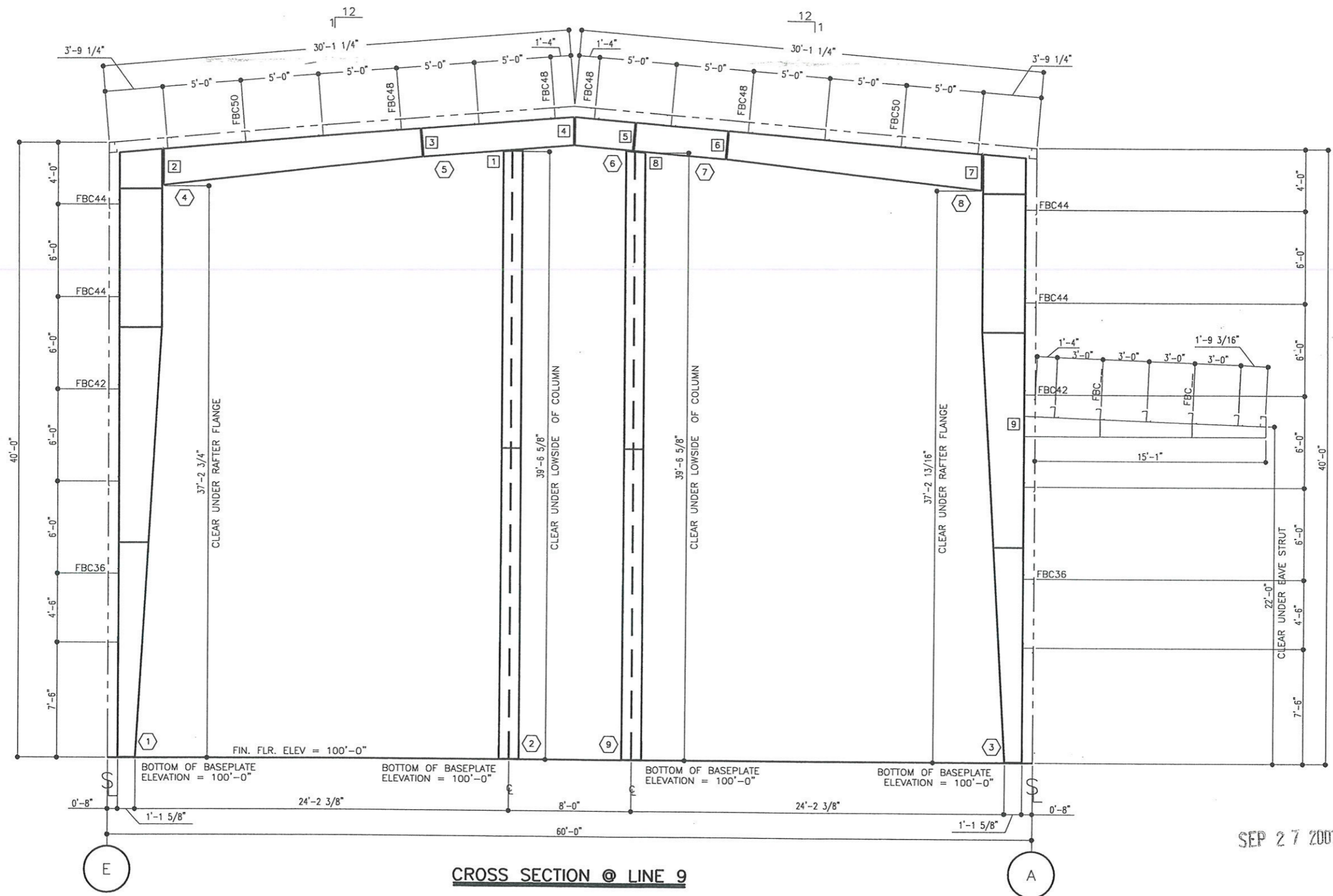
PROJECT NAME:
JAMES MIDDLETON
CHOCTAW, OK

JOB NUMBER:
T0700449A

SHEET NO:
E8 of 14



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CROSS SECTION @ LINE 9

SEP 27 2007

MBR ID	LOW PLATE		HIGH PLATE		OUTSIDE FLANGE			INSIDE FLANGE			MEMBER WEB			
	WIDTH	THICK	WIDTH	THICK	WIDTH	THICK	LENGTH	WIDTH	THICK	LENGTH	DEPTH1	THICK	LENGTH	DEPTH2
1	8.00	0.38	6.00	0.63	6.00	0.31	336.00	6.00	0.31	168.31	13.00	0.18	168.00	23.13
					6.00	0.38	136.00	6.00	0.38	276.19	23.13	0.18	168.00	33.25
											33.25	0.18	107.88	33.25
											33.25	0.23	28.13	33.25
2	8.00	0.38	8.00	0.38	8.00	0.31	473.88	8.00	0.31	475.13	15.00	0.15	242.94	15.00
					6.00	0.38	135.94	6.00	0.38	276.31	15.00	0.15	230.94	15.00
3	8.00	0.50	6.00	0.50	6.00	0.31	336.00	6.00	0.31	168.31	13.00	0.18	168.00	23.13
					6.00	0.38	135.94	6.00	0.38	276.31	23.13	0.18	168.00	33.25
											33.25	0.18	108.00	33.25
											33.25	0.23	27.88	33.25
4	6.00	0.63	6.00	0.38	6.00	0.31	197.94	6.00	0.31	200.38	28.00	0.18	197.94	22.00
					6.00	0.38	119.19	6.00	0.25	117.38	22.00	0.15	119.25	22.00
5	6.00	0.38	6.00	0.38	6.00	0.25	47.44	6.00	0.25	45.56	22.00	0.15	47.44	22.00
6	6.00	0.38	6.00	0.38	6.00	0.25	71.06	6.00	0.25	71.06	22.00	0.15	71.06	22.00
7	6.00	0.38	6.00	0.38	6.00	0.25	198.06	6.00	0.19	200.50	28.00	0.15	198.06	22.00
8	6.00	0.63	6.00	0.38	6.00	0.25	473.88	6.00	0.31	475.13	15.00	0.15	242.94	15.00
9	8.00	0.38	8.00	0.38	8.00	0.31	473.88	8.00	0.31	475.13	15.00	0.15	230.94	15.00

NOTES:

- FOR COLUMN AND RAFTER MARK NUMBERS, SEE SHEET E5 & E6 (MARK NUMBER PLAN).
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BOLT SCHEDULE					
CON ID	BOLT QTY	BOLT DESCRIPTION	BOLT PART#	NUT PART#	
1	4	BOLT/NUT 5/8" x 2 1/4" A325	H0610	H0310	
2	8	BOLT/NUT 3/4" x 2 3/4" A325	H0630	H0320	
3	8	BOLT/NUT 5/8" x 2 1/4" A325	H0610	H0310	
4	8	BOLT/NUT 5/8" x 2 1/4" A325	H0610	H0310	
5	8	BOLT/NUT 5/8" x 2 1/4" A325	H0610	H0310	
6	8	BOLT/NUT 5/8" x 2 1/4" A325	H0610	H0310	
7	8	BOLT/NUT 5/8" x 2 1/4" A325	H0610	H0310	
8	4	BOLT/NUT 5/8" x 2 1/4" A325	H0610	H0310	
9	16	BOLT/NUT 1" x 3 1/4" A325	H0640	H0330	



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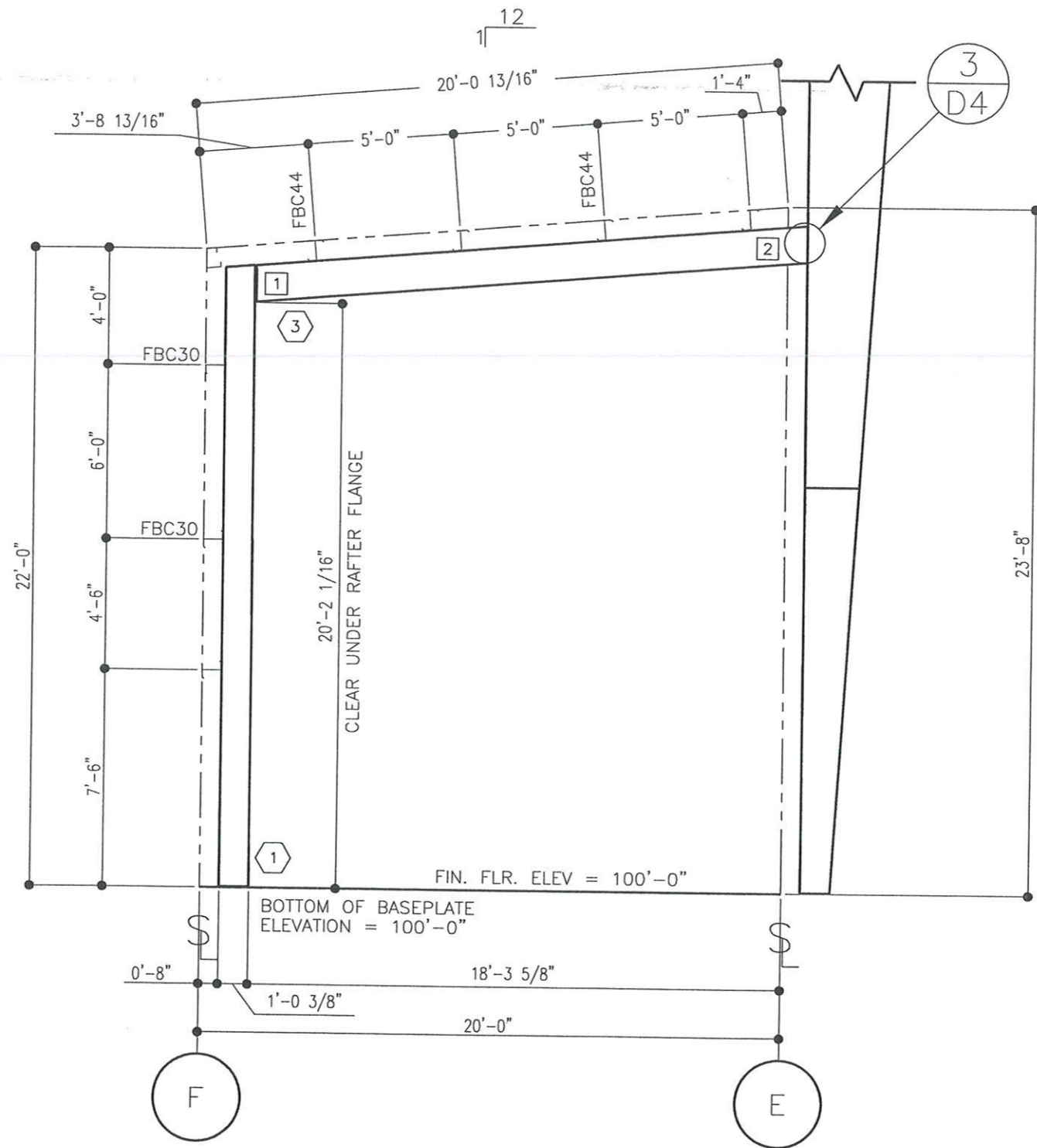
DATE	P.E.	ENG.	CHK.	DWN.	ISSUE
9/27/07					PERMIT

Freedom Steel Building Corporation
 PHONE: (800) 390-2948
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 EMAIL: engineering@freedomsteel.com

PROJECT NAME: JAMES MIDDLETON
 CHOCTAW, OK

JOB NUMBER: T0700449A

SHEET NO: E9 of 14



CROSS SECTION @ LINES 1-9

MBR ID	LOW PLATE		HIGH PLATE		OUTSIDE FLANGE			INSIDE FLANGE			MEMBER WEB			
	WIDTH	THICK	WIDTH	THICK	WIDTH	THICK	LENGTH	WIDTH	THICK	LENGTH	DEPTH1	THICK	LENGTH	DEPTH2
1	8.00	0.38	6.00	0.38	5.00	0.19	256.06	5.00	0.19	239.44	12.00	0.13	256.06	0.00
2	8.00	0.38	6.00	0.38	5.00	0.19	35.44	5.00	0.19	16.63	12.00	0.13	35.44	0.00
3	6.00	0.38	6.00	0.38	5.00	0.19	206.81	5.00	0.19	206.81	15.00	0.13	206.81	15.00

NOTES:

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CON ID	BOLT QTY	BOLT DESCRIPTION	BOLT PART#	NUT PART#
1	4	BOLT/NUT 5/8" x 2 1/4" A325	H0610	HD310
2	4	BOLT/NUT 5/8" x 2 1/4" A325	H0610	HD310

DATE	P.E.	ENC	CHK	DWN	ISSUE	PERMIT
9/27/07						

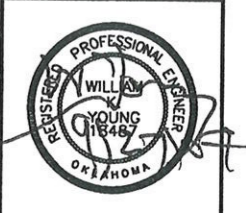
Freedom Steel
Building Corporation

PHONE: (800) 390-2948
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EMAIL: engineering@freedomsteel.com

PROJECT NAME:
JAMES MIDDLETON
CHOCOTAW, OK

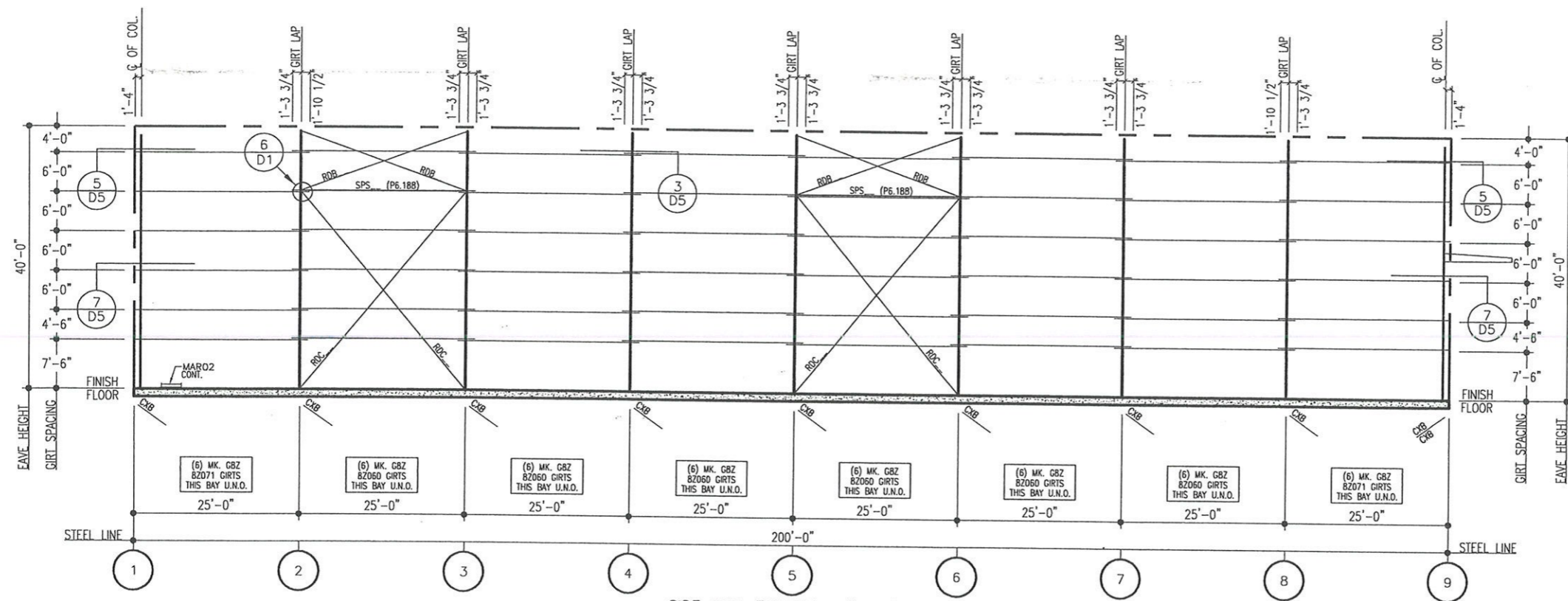
JOB NUMBER:
T0700449A

SHEET NO:
E10 of 14

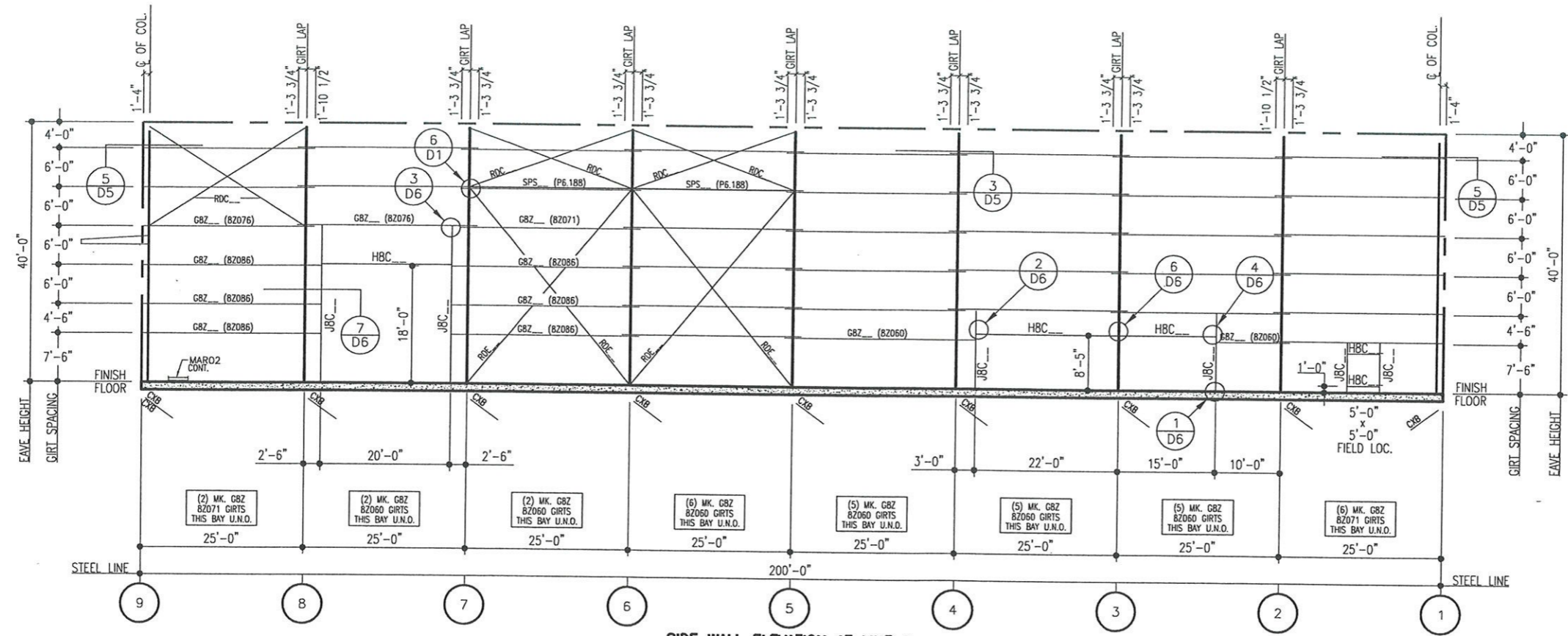


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SIDE WALL ELEVATION AT LINE E
 1) RDB INDICATES 5/8" DIA ROD BRACING. SEE SHEET D1 FOR DETAIL.
 2) RDC INDICATES 3/4" DIA ROD BRACING. SEE SHEET D1 FOR DETAIL.



SIDE WALL ELEVATION AT LINE A
 1) RDC INDICATES 3/4" DIA ROD BRACING. SEE SHEET D1 FOR DETAIL.
 2) RDE INDICATES 1" DIA ROD BRACING. SEE SHEET D1 FOR DETAIL.
 3) FRAMED OPENING JAMBS = 8C09B, HEADER = 8C09B.
 4) 5'-0" x 5'-0" FRAMED OPEN JAMBS & HEADERS = 8C060.
 5) SEE 5/D6 FOR WINDOW HEADER & SILL DETAIL.

SEP 27 2007

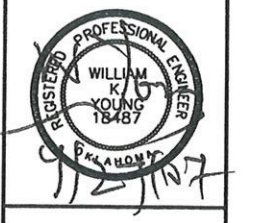
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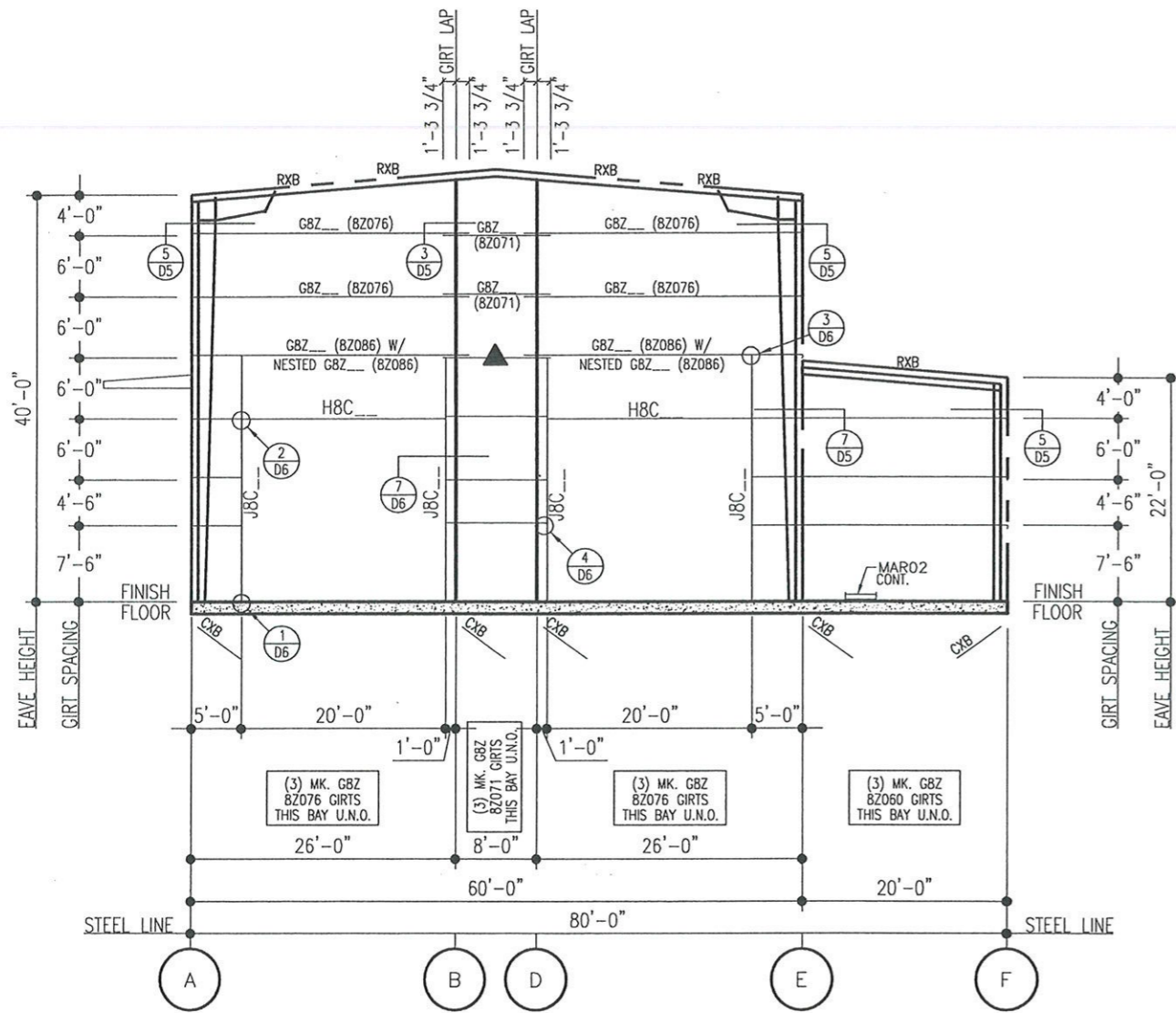
PROJECT NAME:
JAMES MIDDLETON
 CHOCTAW, OK

JOB NUMBER:
 T0700449A

SHEET NO:
 E11 of 14

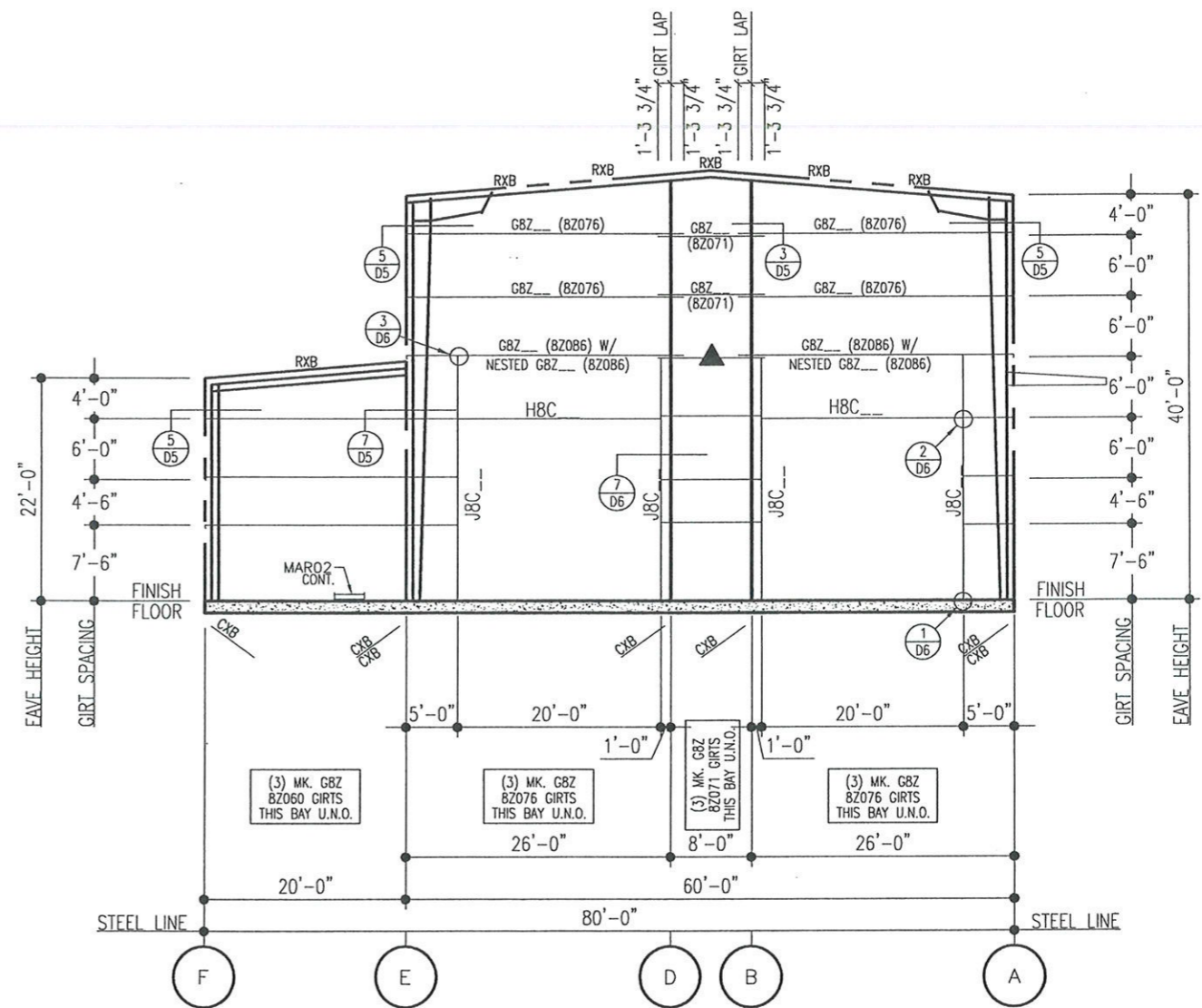


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END WALL ELEVATION AT LINE 1

- 1) ▲ INDICATES G8Z___ (8Z076) W/ NESTED G8Z___ (8Z076)
SEE 6/D5 FOR NESTED GIRTS DETAIL.
- 2) FRAMED OPENING JAMBS = 8C098, HEADER = 8C098.



END WALL ELEVATION AT LINE 9

- 1) ▲ INDICATES G8Z___ (8Z076) W/ NESTED G8Z___ (8Z076)
SEE 6/D5 FOR NESTED GIRTS DETAIL.
- 2) FRAMED OPENING JAMBS = 8C098, HEADER = 8C098.

ISSUE	DWN	CHK	ENG	P.E.	DATE
PERMIT	NIK	AC			9/27/07

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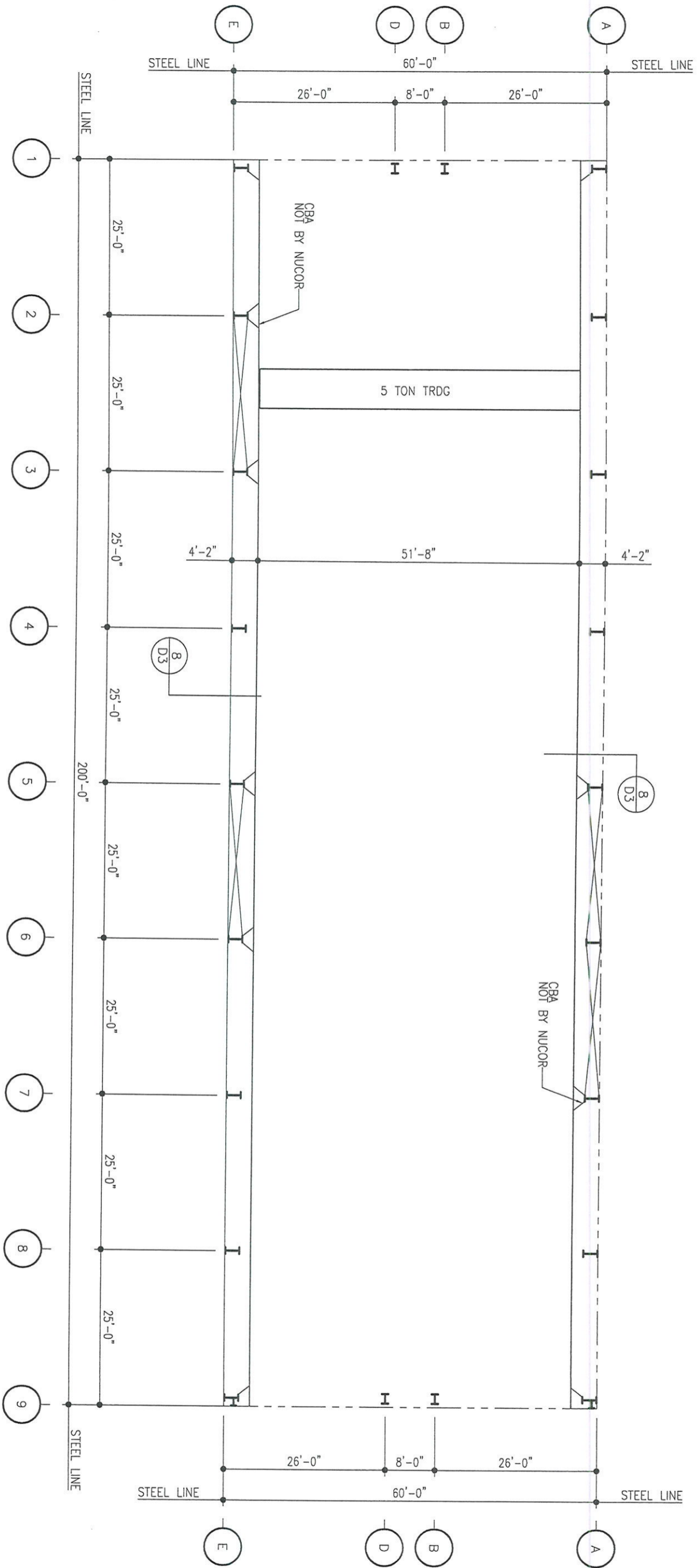
JOB NUMBER:
T0700449A

SHEET NO:
E13 of 14



SEP 27 2007

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CRANE PLAN

SEE SHEET D3 FOR CRANE INFORMATION.

SEP 27 2007

ISSUE	DOWN	CHK	ENG	P.E.	DATE
PERMIT	NIK	AC			9/27/07

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Building Corporation

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JOB NUMBER:
T0700449A

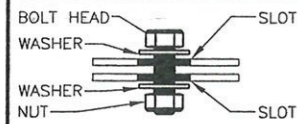
SHEET NO:
E14 of 14



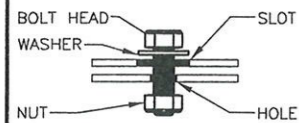
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TYPICAL WASHER REQUIREMENTS
ERECTOR NOTE

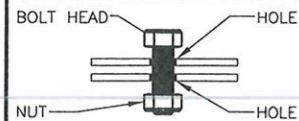
(UNLESS NOTED OTHERWISE ON DRAWINGS)



SLOT TO SLOT CONNECTIONS
WASHERS ARE REQUIRED ON BOTH SIDES OF MATERIAL IF SLOTS ARE USED ON BOTH SIDES. (SEE DETAIL AT RIGHT FOR LAPPED ZEE MEMBERS)



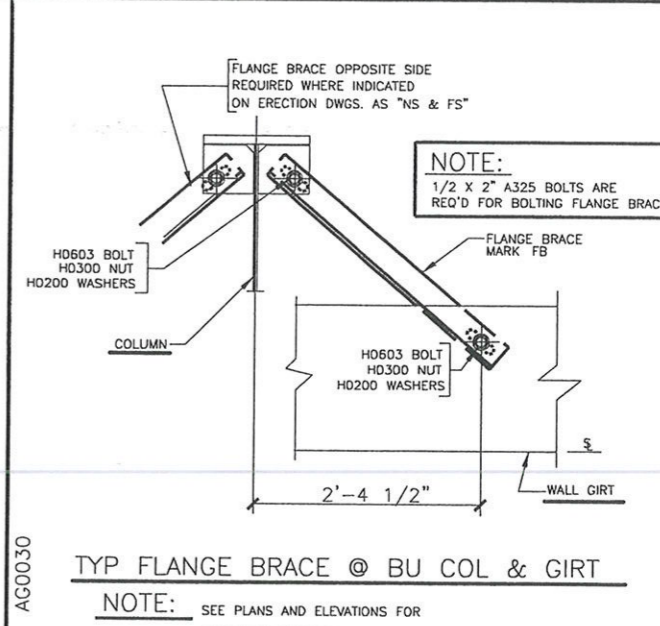
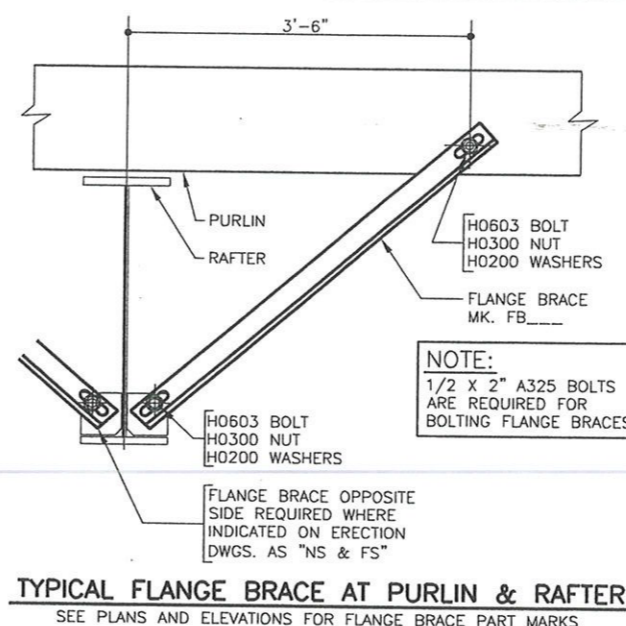
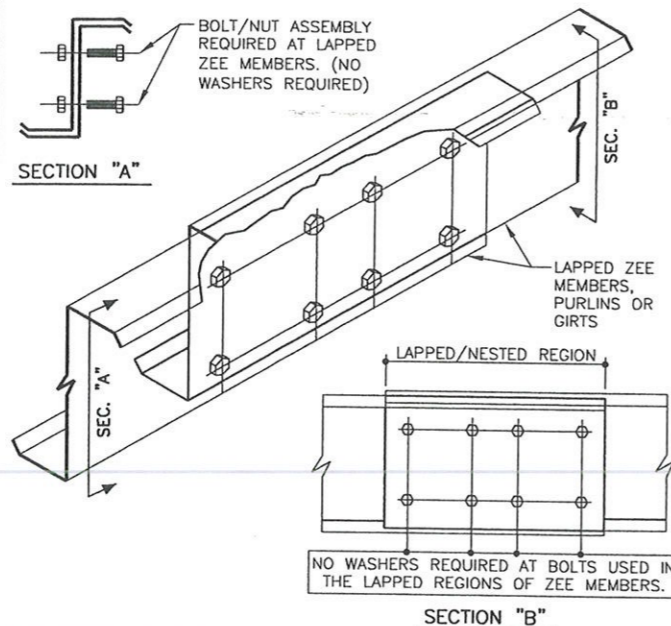
SLOT TO HOLE CONNECTIONS
ONE WASHER REQUIRED ON SLOTTED SIDE ONLY.



HOLE TO HOLE CONNECTIONS
NO WASHERS ARE REQUIRED WHEN SLOTS ARE NOT USED.

WASHER PART NUMBERS

H0200 - 1/2" FLAT WASHER	H0240 - 1" FLAT WASHER
H0210 - 5/8" FLAT WASHER	H0250 - 1 1/8" FLAT WASHER
H0220 - 3/4" FLAT WASHER	H0260 - 1 1/4" FLAT WASHER
H0230 - 7/8" FLAT WASHER	



TYPICAL FIELD WELD REQUIREMENTS
ERECTOR NOTE:

(UNLESS NOTED OTHERWISE ON DRAWINGS)

ALL FIELD WELDING MUST BE PERFORMED BY AWS QUALIFIED WELDERS FOR THE WELDING PROCESSES AND POSITIONS INDICATED. ALL WORK MUST BE COMPLETED AND INSPECTED IN ACCORDANCE WITH THE APPLICABLE AWS SPECIFICATIONS. WELD ELECTRODES USED FOR THE SMAW (OR STICK) WELD PROCESS MUST BE 70 KSI STEEL AND LOW HYDROGEN CONTENT.

GALVANIZED STEEL FIELD WELDING RECOMMENDATIONS

PREPARATION OF WELD AREA

AWS D-19.0, WELDING ZINC COATED STEEL, CALLS FOR WELDS TO BE MADE ON STEEL THAT IS FREE OF ZINC IN THE AREA TO BE WELDED. FOR GALVANIZED STRUCTURAL COMPONENTS, THE ZINC COATING SHOULD BE REMOVED AT LEAST ONE TO FOUR INCHES (2.5-10 CM) FROM EITHER SIDE OF THE INTENDED WELD ZONE AND ON BOTH SIDES OF THE WORKPIECE. GRINDING BACK THE ZINC COATING IS THE PREFERRED AND MOST COMMON METHOD; BURNING THE ZINC AWAY OR PUSHING BACK THE MOLTEN ZINC FROM THE WELD AREA ALSO ARE EFFECTIVE.

TOUCH-UP OF WELD AREA

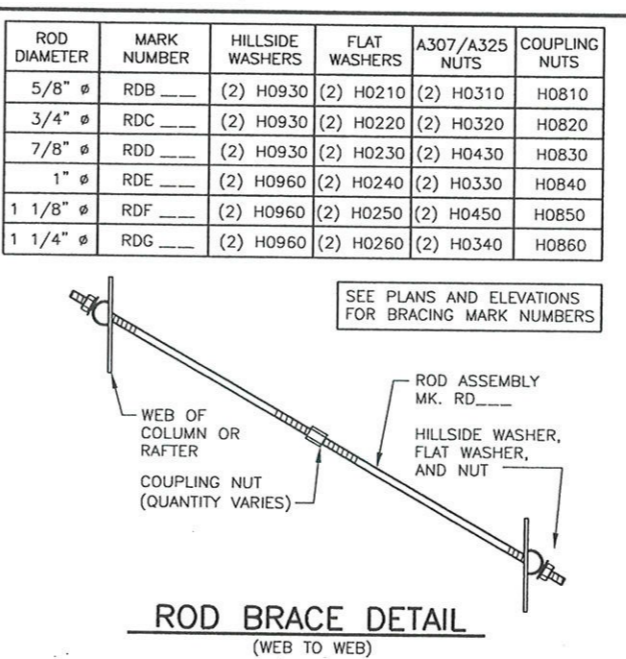
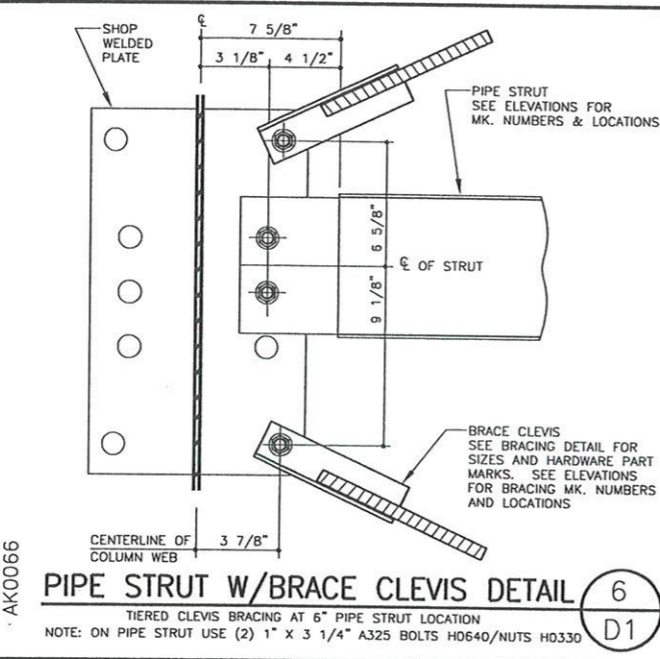
WELDING ON GALVANIZED SURFACES DESTROYS THE ZINC COATING ON AND AROUND THE WELD AREA. RESTORATION OF THE AREA WILL BE PERFORMED IN ACCORDANCE WITH ASTM A 780, STANDARD PRACTICE FOR REPAIR OF DAMAGED AND UNCOATED AREAS OF HOT-DIP GALVANIZED COATINGS, WHICH SPECIFIES THE USE OF PAINTS CONTAINING ZINC DUST, ZINC-BASED SOLDERS OR SPRAYED ZINC. ALL TOUCHUP AND REPAIR METHODS ARE CAPABLE OF BUILDING A PROTECTIVE LAYER TO THE THICKNESS REQUIRED BY ASTM A 780.

SAFETY & HEALTH

WHEN WELDING DIRECTLY ON GALVANIZED STEEL IS UNAVOIDABLE, OSHA PERMISSIBLE EXPOSURE LIMITS (PELS) MAY BE EXCEEDED AND EVERY PRECAUTION, INCLUDING HIGH-VELOCITY CIRCULATING FANS WITH FILTERS, AIR RESPIRATORS AND FUME-EXTRACTION SYSTEMS SUGGESTED BY AWS, SHOULD BE EMPLOYED. FUMES FROM WELDING GALVANIZED STEEL CAN CONTAIN ZINC, IRON AND LEAD. FUME COMPOSITION TYPICALLY DEPENDS ON THE COMPOSITION OF MATERIALS USED, AS WELL AS THE HEAT APPLIED BY THE PARTICULAR WELDING PROCESS. IN ANY EVENT, GOOD VENTILATION MINIMIZES THE AMOUNT OF EXPOSURE TO FUMES.

PRIOR TO WELDING ON ANY METAL, CONSULT ANSI/ASC Z-49.1, SAFETY IN WELDING, CUTTING AND ALLIED PROCESSES, WHICH CONTAINS INFORMATION ON THE PROTECTION OF PERSONNEL AND THE GENERAL AREA, VENTILATION AND FIRE PREVENTION.

INFORMATION COURTESY OF AMERICAN GALVANIZERS ASSOCIATION



DATE	9/27/07
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ISSUE	
PERMIT	

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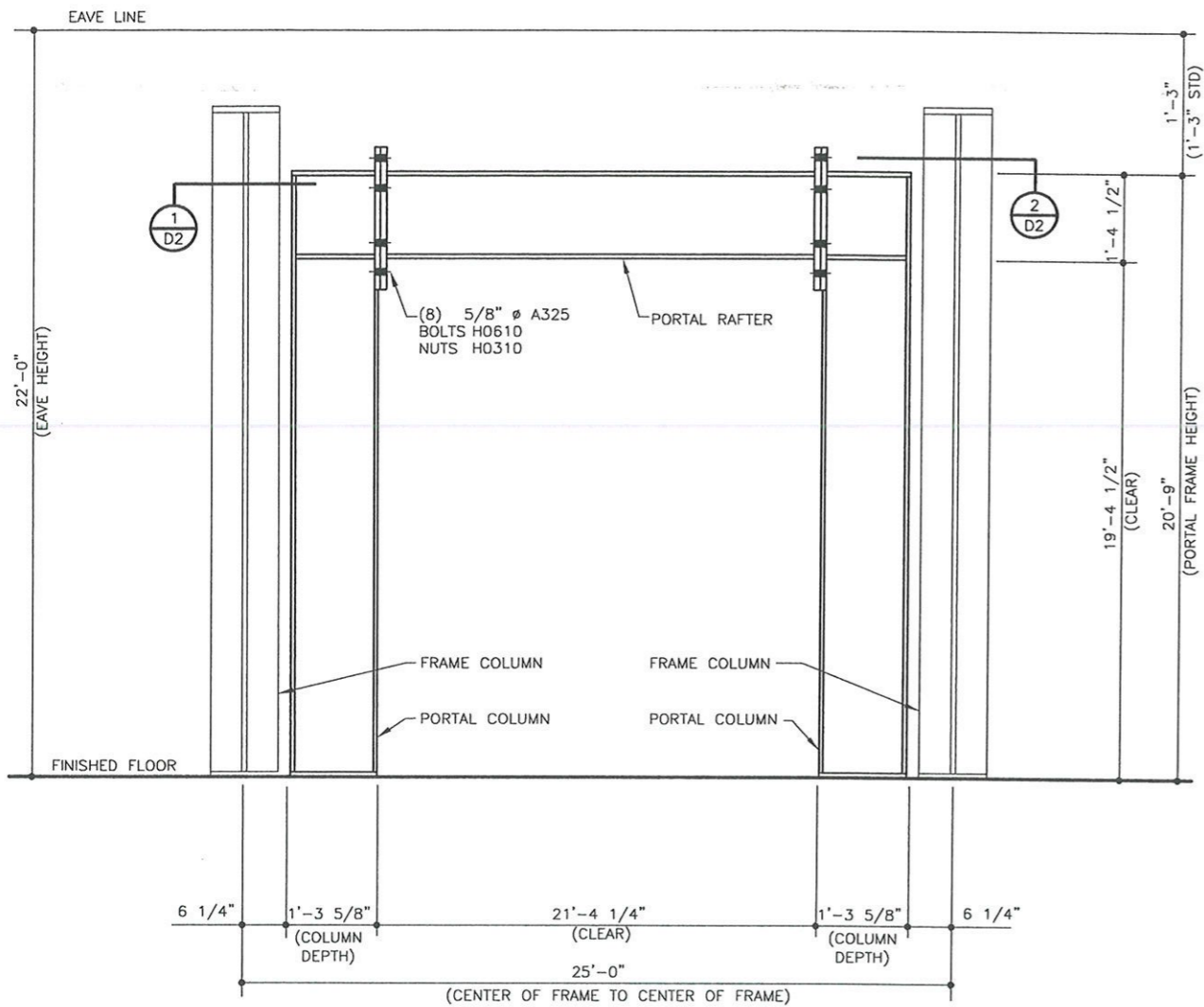
JOB NUMBER: T0700449A

SHEET NO: D1 of 6



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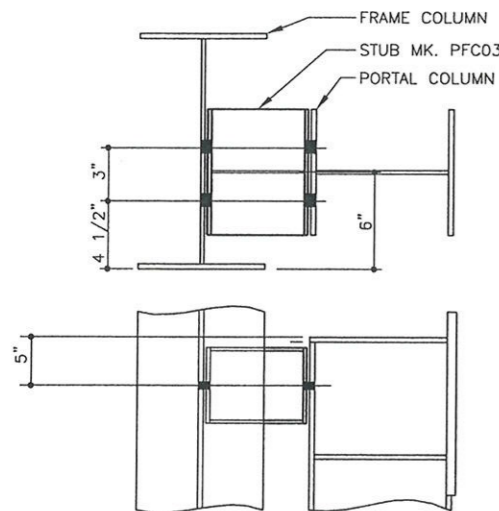


FULL HEIGHT PORTAL FRAME DETAIL

SEE PLANS AND/OR ELEVATIONS FOR MARK NUMBERS

6
D2

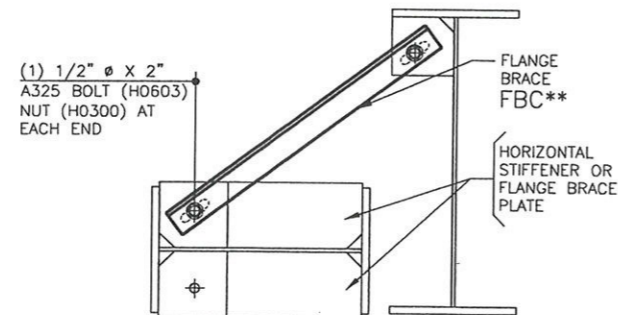
AJ0020



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

AJ0050



TYPICAL FLANGE BRACE CONNECTION AT FRAME COLUMN AND PORTAL COLUMN

(REFER TO CROSS SECTIONS & ELEVATIONS FOR PART NUMBERS)

AJ0041(K)

ISSUE	PERM T	DWN	CHK	ENG	P.E.	DATE
		NIK	AC			9/27/07

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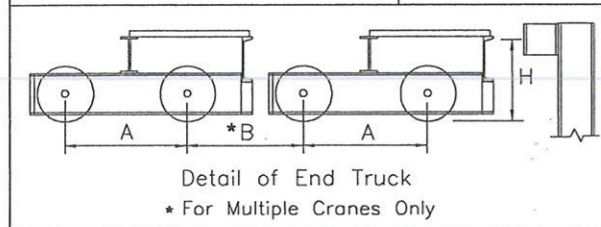
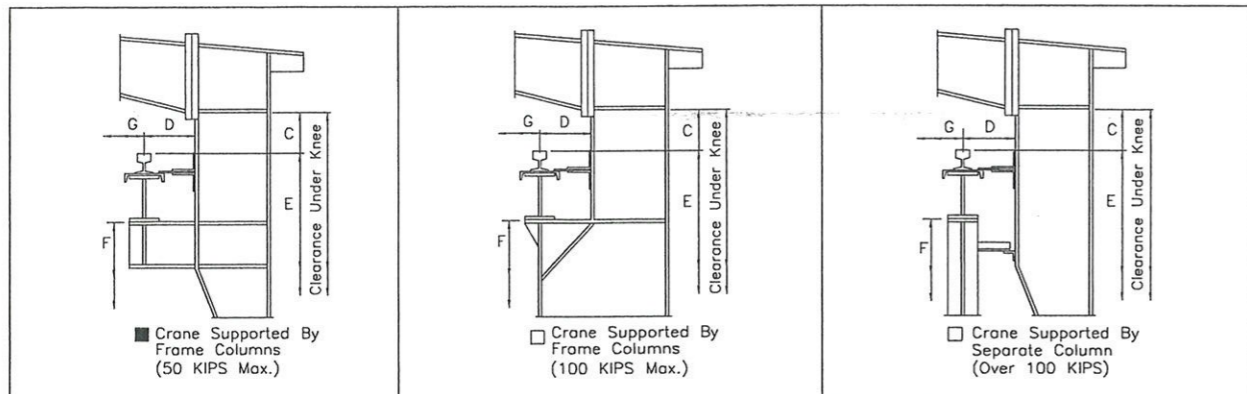
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T0700449A

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MATERIALS PROVIDED BY NUCOR BUILDING SYSTEMS

Y	N	Description
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Design For Crane Loads Only
<input type="checkbox"/>	<input type="checkbox"/>	Brackets or Auxiliary Columns
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Runway Beam & Channel
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Crane Rail & Method of Attachment
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Crane Stops

Crane I.D. (A, B, C...) TYPICAL

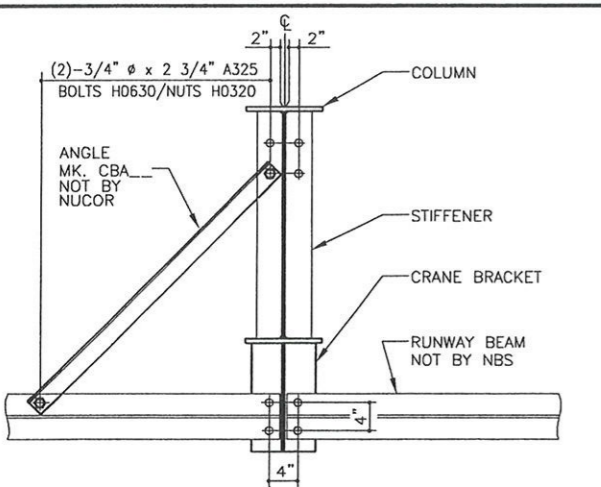
Information Provided/Confirmed By Customer	Information Assumed By N.B.S.
<input checked="" type="checkbox"/> Quantity of Cranes: 1	<input type="checkbox"/> Quantity of Cranes: 1
<input checked="" type="checkbox"/> Crane Type: (TRDG/TRSG) TRDG	<input type="checkbox"/> Crane Type: (TRDG/TRSG) TRDG
<input checked="" type="checkbox"/> Rated Capacity: 5 tons	<input type="checkbox"/> Rated Capacity: 5 tons
<input checked="" type="checkbox"/> CMAA Service Duty Class: D	<input type="checkbox"/> CMAA Service Duty Class: D
<input checked="" type="checkbox"/> Operation Control Type: PENDANT	<input type="checkbox"/> Operation Control Type: PENDANT
<input checked="" type="checkbox"/> Hoist and Trolley Weight: 1,275 lbs.	<input type="checkbox"/> Hoist and Trolley Weight: 1,275 lbs.
<input checked="" type="checkbox"/> Bridge Weight: 18,400 lbs.	<input type="checkbox"/> Bridge Weight: 18,400 lbs.
<input checked="" type="checkbox"/> Max. Wheel Load w/o Impact: 11,400 lbs.	<input type="checkbox"/> Max. Wheel Load w/o Impact: 11,400 lbs.
<input checked="" type="checkbox"/> Bumper Type: (Hydraulic/Rubber/Spring) ***	<input type="checkbox"/> Bumper Type: (Hydraulic/Rubber/Spring) ***
<input checked="" type="checkbox"/> Bumper Stroke: *** in.	<input type="checkbox"/> Bumper Stroke: *** in.
<input checked="" type="checkbox"/> Bridge Travel Speed: *** fpm	<input type="checkbox"/> Bridge Travel Speed: *** fpm
<input checked="" type="checkbox"/> Crane End Stop Force: 4,500 lbs.	<input type="checkbox"/> Crane End Stop Force: 4,500 lbs.
<input checked="" type="checkbox"/> Top of Rail to Center of Stop Bumper: 1'-0" ft.-in.	<input type="checkbox"/> Top of Rail to Center of Stop Bumper: 1'-0" ft.-in.

Information Provided/Confirmed By Customer

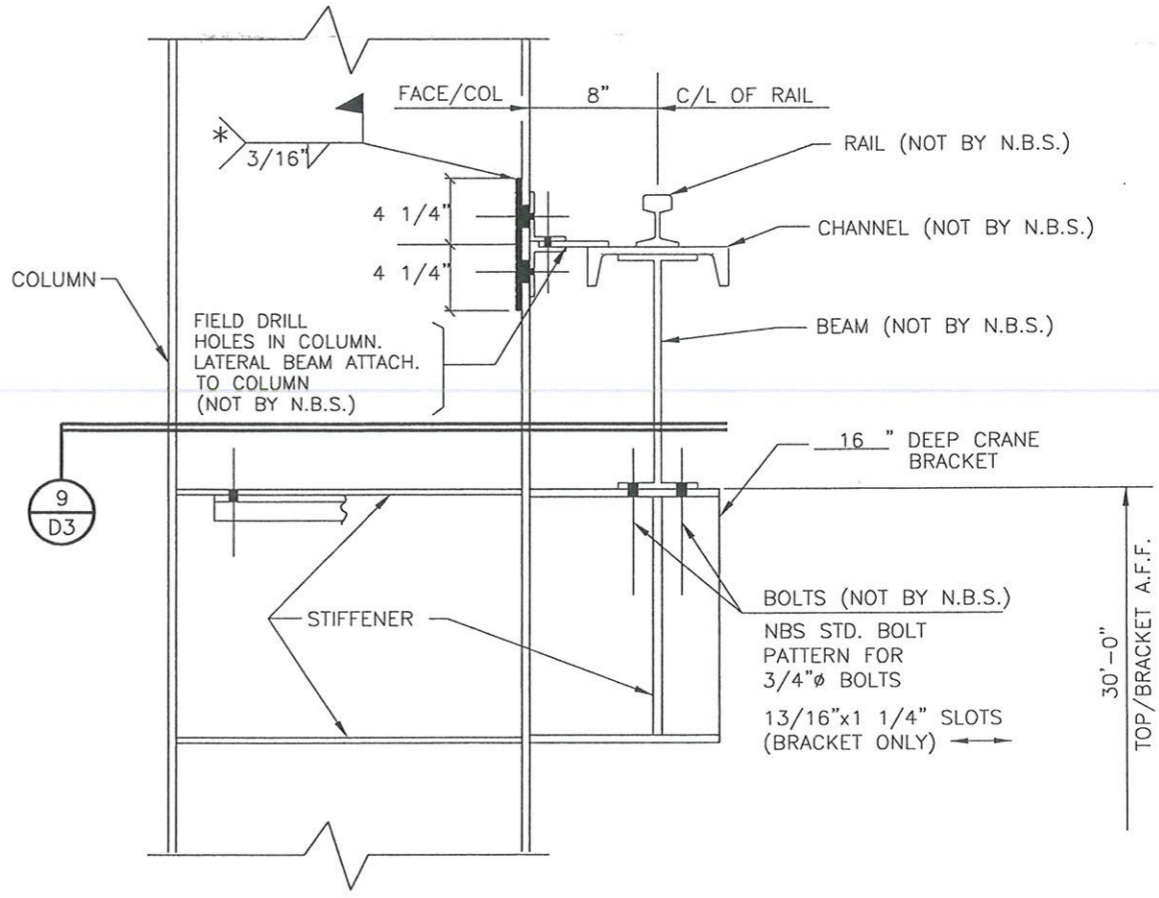
Information Provided/Confirmed By Customer	Information Assumed By N.B.S.
<input checked="" type="checkbox"/> Length of Runway: 200 ft.-in.	<input type="checkbox"/> Length of Runway: 200 ft.-in.
<input checked="" type="checkbox"/> No. of Wheels Per End Truck: 2	<input type="checkbox"/> No. of Wheels Per End Truck: 2
<input checked="" type="checkbox"/> Adjacent Crane I.D.: N/A	<input type="checkbox"/> Adjacent Crane I.D.: N/A
<input checked="" type="checkbox"/> Crane Rail Size (ASCE): 30 lbs/yd	<input type="checkbox"/> Crane Rail Size (ASCE): 30 lbs/yd
<input checked="" type="checkbox"/> Wheel Spacing: 11'-0" ft.-in.	<input type="checkbox"/> Wheel Spacing: 11'-0" ft.-in.
<input checked="" type="checkbox"/> Center to Center of Adj. Crane Wheels: N/A ft.-in.	<input type="checkbox"/> Center to Center of Adj. Crane Wheels: N/A ft.-in.
<input checked="" type="checkbox"/> Min. Top Clear Distance From Top of Rail: 4'-5" ft.-in.	<input type="checkbox"/> Min. Top Clear Distance From Top of Rail: 4'-5" ft.-in.
<input checked="" type="checkbox"/> Min. Side Clear Distance From Center of Beam: 0'-8" ft.-in.	<input type="checkbox"/> Min. Side Clear Distance From Center of Beam: 0'-8" ft.-in.
<input checked="" type="checkbox"/> Top of Rail To Finish Floor: * ft.-in.	<input type="checkbox"/> Top of Rail To Finish Floor: * ft.-in.
<input checked="" type="checkbox"/> Top of Bracket/Auxiliary Column To Finish Floor: 30'-0" ft.-in.	<input type="checkbox"/> Top of Bracket/Auxiliary Column To Finish Floor: 30'-0" ft.-in.
<input checked="" type="checkbox"/> Center To Center of Rail: 51'-8" ft.-in.	<input type="checkbox"/> Center To Center of Rail: 51'-8" ft.-in.

* PER RUNWAY BEAM DESIGN. BEAM DESIGN NBN.
 *** AS REQUIRED BY CRANE MANUFACTURER SUCH THAT THE CRANE END STOP FORCE SHALL NOT BE EXCEEDED.

TOP RUNNING CRANE DESIGN INFORMATION DETAIL



TOP RUNNING BRIDGE CRANE DETAIL
 RUNWAY BEAM TO COLUMN BRACING (TYPICAL UNLESS NOTED OTHERWISE)



* - FIELD WELD OPPOSITE SIDE OF WEB FROM FACTORY WELD

TOP RUNNING BRIDGE CRANE DETAIL
 RUNWAY BEAM TO BRACKET AND COLUMN CONNECTION

AH0020

DATE	P.E.	ENG.	CHK.	DWN.	ISSUE	PERMIT
9/27/07						

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 CHOCOTAW, OK

JOB NUMBER: T0700449A

SHEET NO: D3 of 6



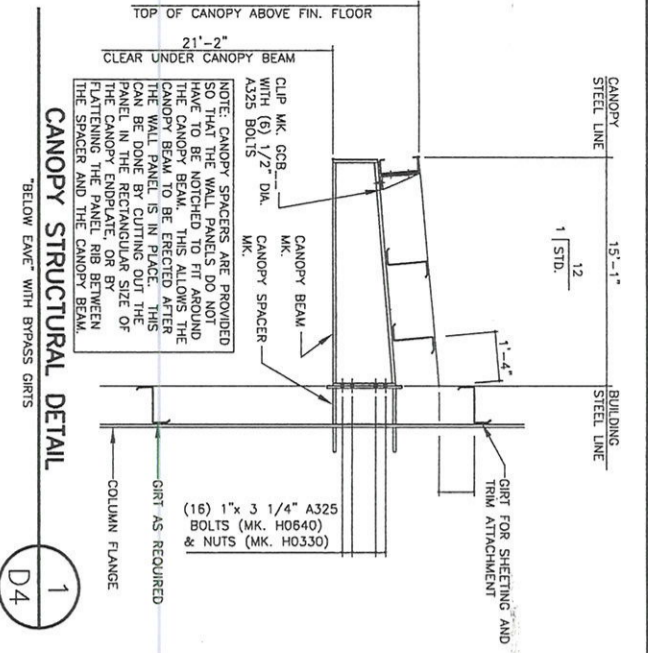
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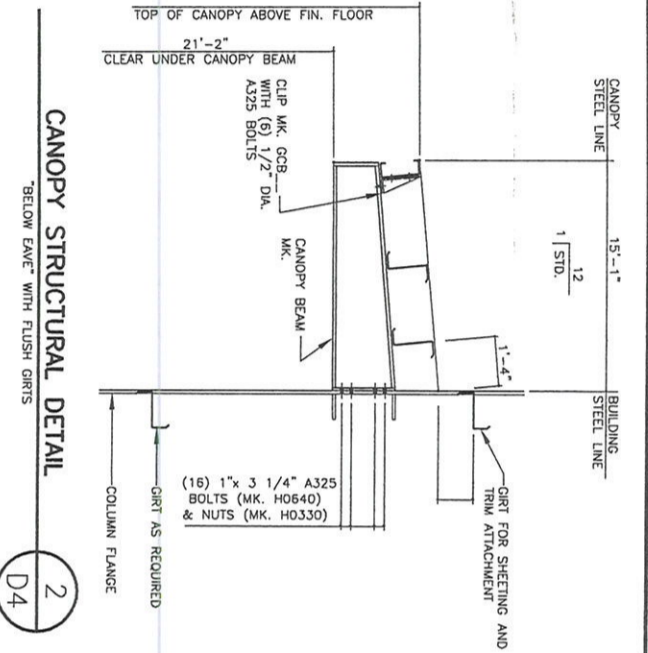
AH0002

AH0050

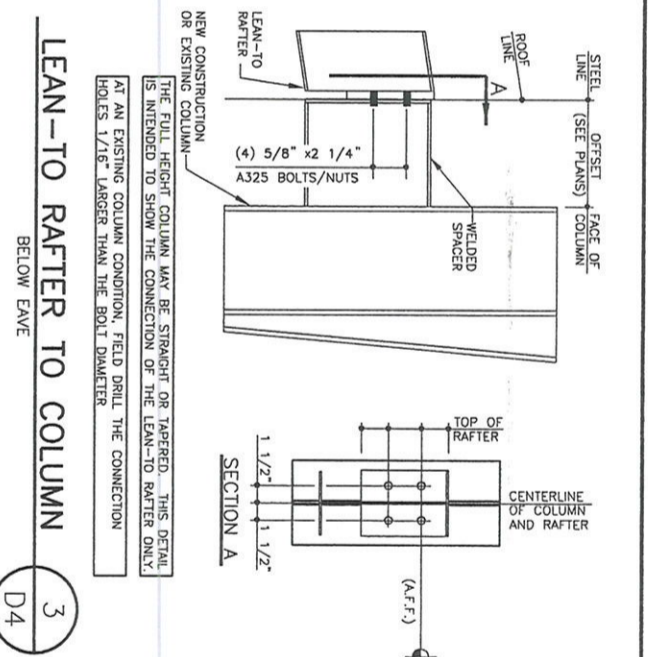
AQ0010(MOD.)



AQ0030



AU0005(MOD.)



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PROJECT NAME:
JAMES MIDDLETON
CHOCTAW, OK

JOB NUMBER:
T0700449A

SHEET NO.:
D4 of 6

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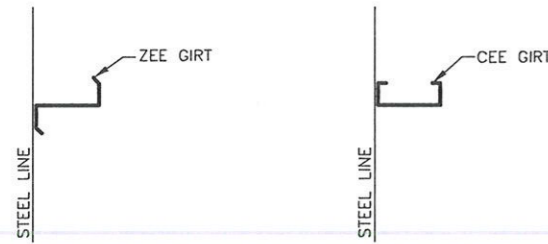
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PERMIT	NIK	AC			9/27/07

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ERECTOR NOTE: UNLESS SPECIFICALLY NOTED OTHERWISE, STANDARD ZEE GIRTS ORIENTATION IS TO HAVE THE GIRTS TOED DOWN AT THE STEEL LINE AS SHOWN IN THE DETAIL BELOW.

UNLESS SPECIFICALLY NOTED OTHERWISE, STANDARD CEE GIRTS ORIENTATION IS TO HAVE THE GIRTS TOED UP AS SHOWN IN THE DETAIL BELOW. STANDARD CLIP ATTACHMENT IS BELOW THE GIRTS, HOWEVER SOME DETAILS REQUIRE THAT THE CLIP BE ABOVE THE GIRTS OR THAT THE GIRTS BE TOED DOWN.

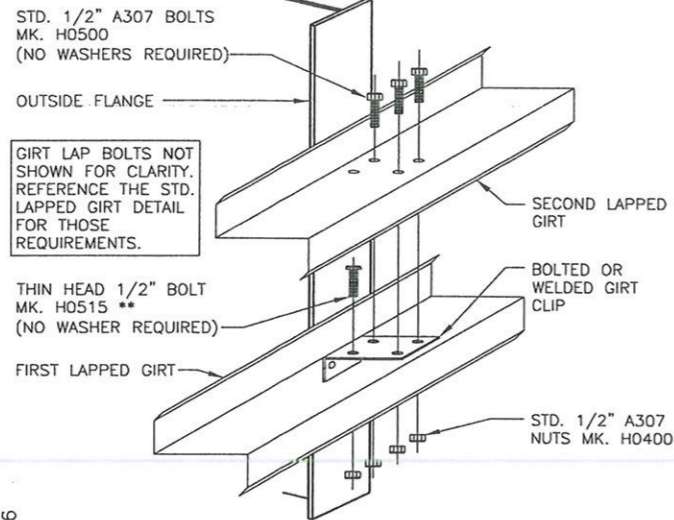
(REFER TO THE GIRTS DETAILS FOR SPECIFIC CONNECTION REQUIREMENTS).



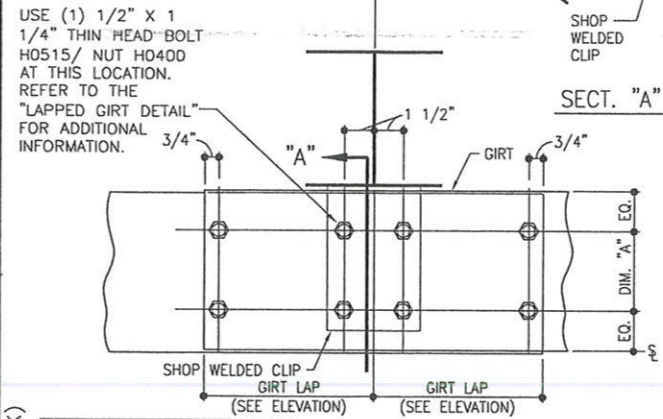
ZEE GIRTS ORIENTATION CEE GIRTS ORIENTATION

STANDARD GIRTS ORIENTATION DETAIL

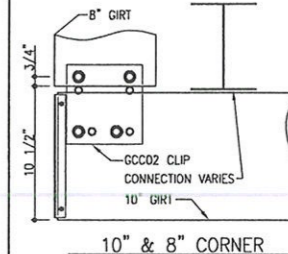
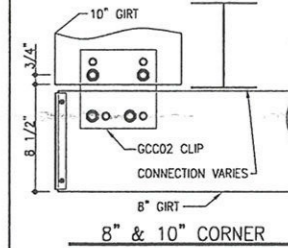
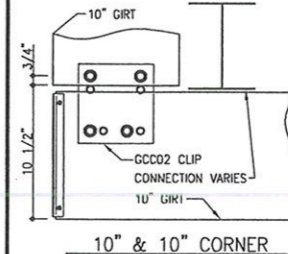
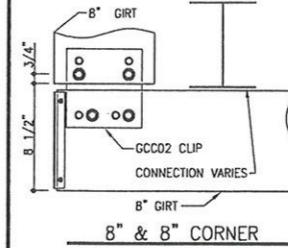
SEE GIRTS DETAILS FOR GIRTS CONNECTIONS (COLUMNS NOT SHOWN)



LAPPED GIRTS DETAIL
LAPPED GIRTS @ INTERIOR BAY COLUMNS
** THE THIN HEAD 1/2" A307 BOLT MUST BE INSTALLED INTO THE FIRST GIRTS AND CLIP OF A LAPPED CONDITION. THE BOLT/NUT ASSEMBLY MUST BE WRENCH TIGHT PRIOR TO THE SECOND LAPPED GIRTS BEING INSTALLED.



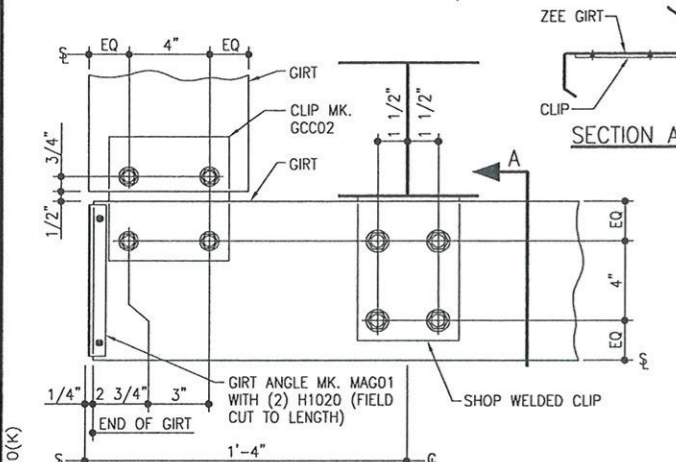
SW OR EW GIRTS DETAIL
LAPPED BYPASS GIRTS AT INTERIOR BAY COLUMNS
NOTE: USE (7) 1/2" x 1 1/2" A307 BOLTS H0500/NUTS H0400
REFERENCE ERECTOR NOTE FOR TYPICAL WASHER REQUIREMENTS



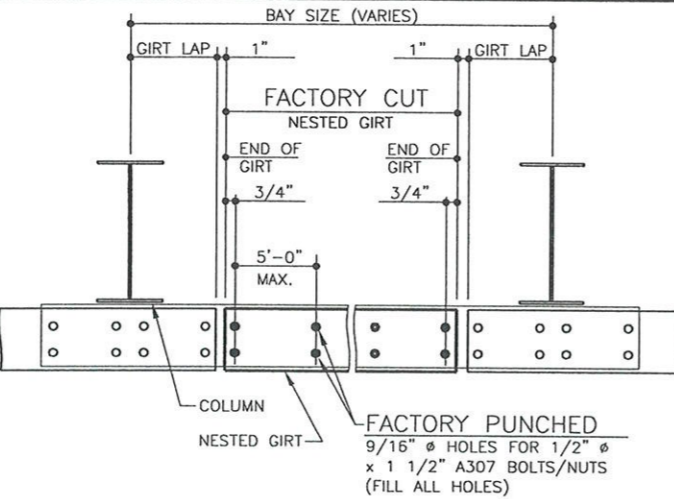
BYPASS GIRTS BOLT PLACEMENT DETAIL

REFERENCE WASHER DETAIL FOR TYPICAL WASHER REQUIREMENTS
GIRTS CLIPS ARE FACTORY PUNCHED TO BE USED WITH MULTIPLE GIRTS DEPTHS.
REFER TO THE DETAILS ABOVE TO DETERMINE WHICH HOLES ARE UTILIZED.

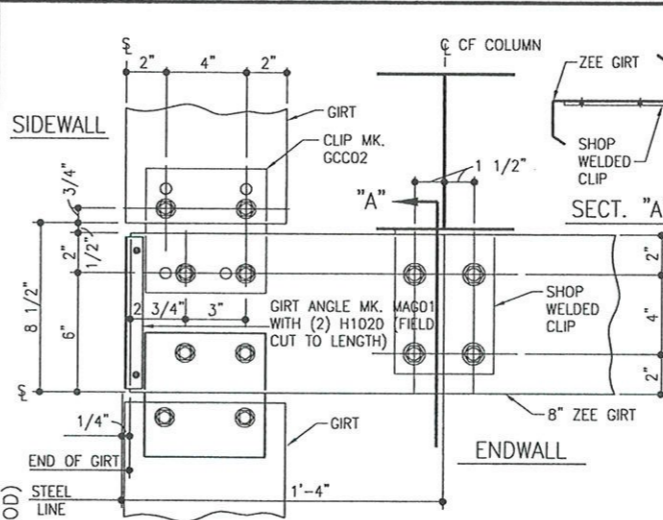
ERECTOR NOTE GIRTS CLIPS ARE FACTORY PUNCHED TO BE USED WITH MULTIPLE GIRTS DEPTHS. REFER TO THE STANDARD BOLT PLACEMENT DETAIL(S) FOR PROPER BOLT PLACEMENT.



BYPASS GIRTS CORNER DETAIL
LEFT HAND DETAIL SHOWN, RIGHT HAND OPPOSITE
NOTE: USE (8) 1/2" x 1 1/2" A307 BOLTS H0500/NUTS H0400
REFERENCE STANDARD WASHER DETAIL FOR TYPICAL WASHER REQUIREMENTS



BYPASS NESTED GIRTS DETAIL
REFERENCE ERECTOR NOTE FOR TYPICAL WASHER REQUIREMENTS
THE QUANTITY OF 1/2" x 1 1/2" A307 BOLTS (MK. H0500) & NUTS (MK. H0400) VARIES DEPENDING ON THE BAY SIZE.



CORNER ZEE GIRTS W/ GIRTS
8" BYPASS ENDWALL AND 8" SIDEWALL GIRTS W/ GIRTS TERMINATION
NOTE: USE (8) 1/2" x 1 1/2" A307 BOLTS H0500/NUTS H0400
REFERENCE ERECTOR NOTE FOR TYPICAL WASHER REQUIREMENTS

DATE	9/27/07
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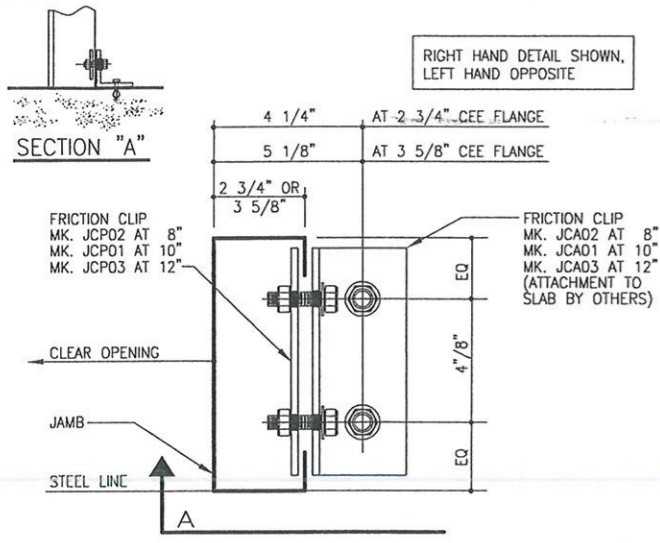
Freedom Steel
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PROJECT NAME: JAMES MIDDLETON
JOB NUMBER: T0700449A
SHEET NO: D5 of 6

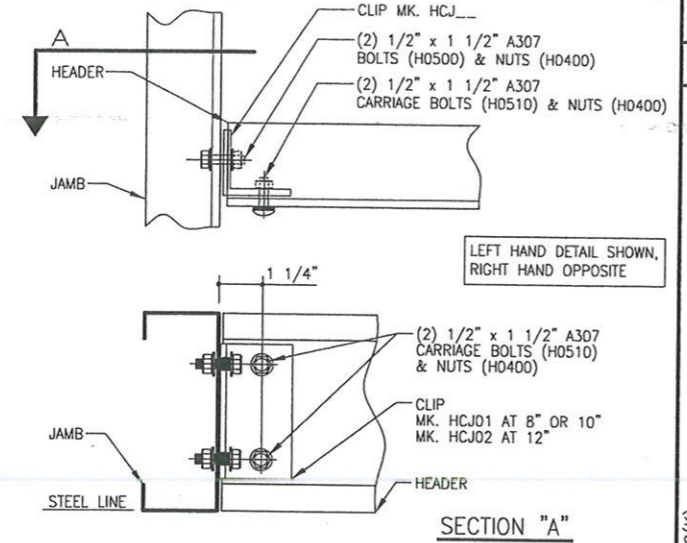


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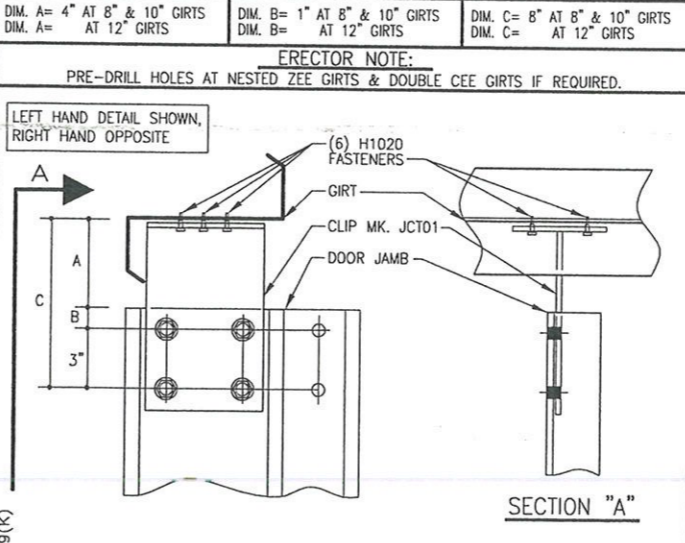
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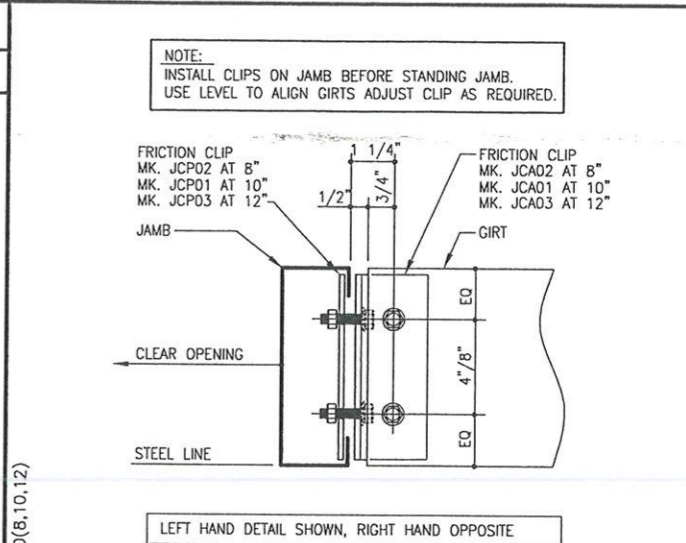
JAMB TO FINISHED FLOOR CONNECTION 1
 NOTE: USE (2) 1/2" x 1 1/2" A307 BOLTS H0500/NUTS H0400
 REFERENCE STANDARD WASHER DETAIL FOR TYPICAL WASHER REQUIREMENTS
 D6



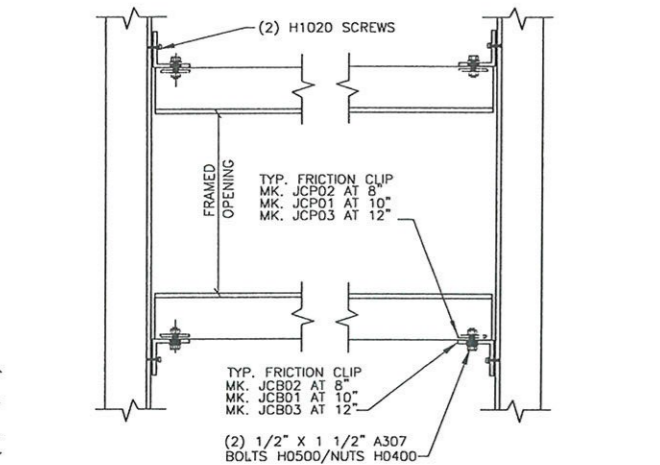
HEADER TO JAMB CONNECTION 2
 NOTE: USE (2) 1/2" x 1 1/2" A307 BOLTS H0500/NUTS H0400
 REFERENCE STANDARD WASHER DETAIL FOR TYPICAL WASHER REQUIREMENTS
 D6



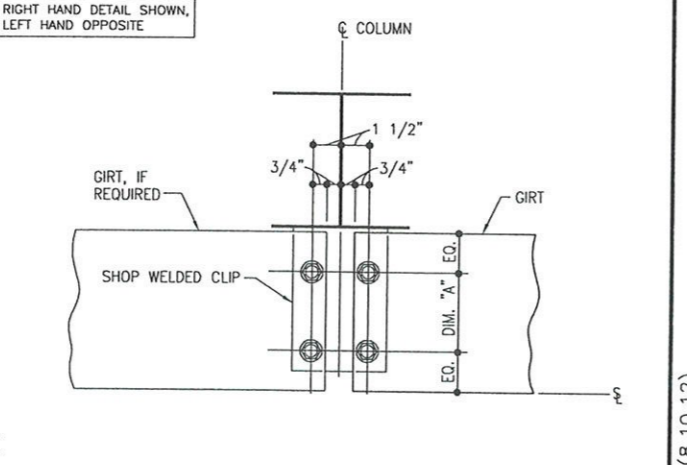
DOOR JAMB TO GIRTS CONNECTION 3
 NOTE: USE (4) 1/2" x 1 1/2" A307 BOLTS H0500/NUTS H0400
 REFERENCE STANDARD WASHER DETAIL FOR TYPICAL WASHER REQUIREMENTS
 D6



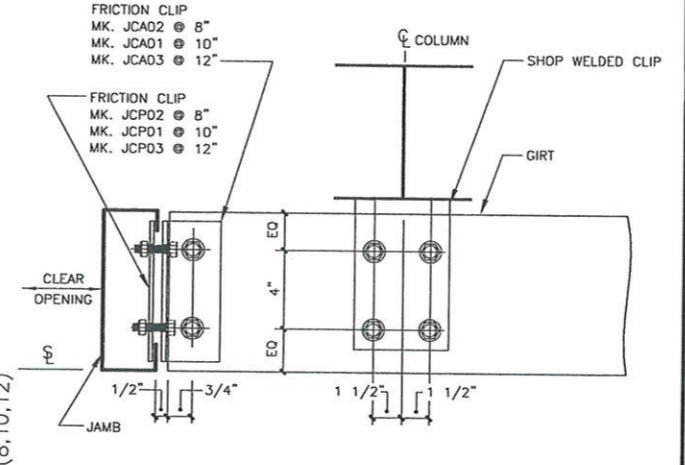
GIRTS TO JAMB CONNECTION 4
 NOTE: USE (4) 1/2" x 1 1/2" A307 BOLTS H0500/NUTS H0400
 REFERENCE STANDARD WASHER DETAIL FOR TYPICAL WASHER REQUIREMENTS
 D6



FRAMED OPENING DETAIL 5
 SILL & HEADER TO JAMB CONNECTION
 REFERENCE ERECTOR NOTE FOR TYPICAL WASHER REQUIREMENTS
 D6



SW OR EW GIRTS DETAIL 6
 SIMPLE-SPAN BYPASS GIRTS AT INTERIOR BAY COLUMNS
 NOTE: USE (4) 1/2" x 1 1/2" A307 BOLTS H0500/NUTS H0400
 REFERENCE ERECTOR NOTE FOR TYPICAL WASHER REQUIREMENTS
 D6



SW OR EW GIRTS DETAIL 7
 FRAMED OPENING AT BYPASS GIRTS CONDITION
 NOTE: USE (8) 1/2" x 1 1/2" A307 BOLTS H0500/NUTS H0400
 REFERENCE ERECTOR NOTE FOR TYPICAL WASHER REQUIREMENTS
 D6

DATE	9/27/07
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PERMIT	

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SHEET NO:
 D6 of 6



SEP 27 2007

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