

PROJECT NUMBER: S08A0248A  
 PROJECT NAME: OLYMPIC STEEL  
 PROJECT LOCATION: SUMTER, SC COUNTY: SUMTER  
 CUSTOMER: THOMPSON TURNER CONSTRUCTION CO. SUMTER, SC



**NOTES AND SPECIFICATIONS**

**BUILDING ERECTION NOTES**

1) THE GENERAL CONTRACTOR AND/OR ERECTOR IS RESPONSIBLE TO SAFELY AND PROPERLY ERECT THE METAL BUILDING SYSTEM IN CONFORMANCE WITH THESE DRAWINGS, OSHA REQUIREMENTS, AND MBMA STANDARDS PERTAINING TO PROPER ERECTION. THIS INCLUDES, BUT IS NOT LIMITED TO, THE CORRECT USE OF TEMPORARY CUTS AND BRACING WHERE NEEDED FOR SQUARE, PLUMBING, AND SECURING THE STRUCTURAL AND SECONDARY FRAMING. SECONDARY WALL FRAMING MEMBERS (GRITS OR BAR JOISTS) ARE NOT DESIGNED TO FUNCTION AS A WORK PLATFORM OR PROVIDE SAFETY TIE OFF ATTACHMENT IN ACCORDANCE WITH OSHA REQUIREMENTS. SECONDARY ROOF FRAMING MEMBERS (PURLINS OR BAR JOISTS) ARE NOT DESIGNED TO PROVIDE SAFETY TIE OFF ATTACHMENT IN ACCORDANCE WITH OSHA REQUIREMENTS.

2) 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 8.1, UNLESS NOTED OTHERWISE. ALSO, NOTE THAT BOLTS IN STANDARD HOLES DO NOT REQUIRE WASHERS PER THE RCSC SPECIFICATION FOR STRUCTURAL JOINTS USING A325 OR A490 BOLTS, SECTION 8.

3) 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.

4) 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 ZEE MEMBERS, WHETHER PURLINS OR GRITS, NO WASHERS ARE REQUIRED IN THE B-BOLT LAPPED REGION.

5) 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.

6) 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.

**7) COMMON ABBREVIATIONS:**

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

8) CONSTRUCTION LOADS SHALL NOT BE PLACED ON ANY STRUCTURAL STEEL FRAMEWORK UNLESS SUCH FRAMEWORK IS SAFELY BOLTED, WELDED, OR OTHERWISE ADEQUATELY SECURED.

9) PURLINS AND GRITS SHALL NOT BE USED AS AN ANCHORAGE POINT FOR A FALL ARREST SYSTEM UNLESS WRITTEN APPROVAL IS OBTAINED FROM THE METAL BUILDING SUPPLIER.

10) 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.

11) 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 ROOF FRAMES.

12) 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**

1) 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.

2) ALL WELDING OF STRUCTURAL STEEL IS BASED ON AWS D1.1 "STRUCTURAL WELDING CODE", LATEST EDITION.

3) ALL COLD FORMED MEMBERS ARE DESIGNED IN ACCORDANCE WITH AISI "SPECIFICATIONS FOR THE DESIGN OF COLD FORMED STEEL STRUCTURAL MEMBERS", LATEST EDITION.

4) ALL WELDING OF COLD FORMED STEEL IS BASED ON AWS D1.3 "STRUCTURAL WELDING CODE - SHEET STEEL", LATEST EDITION.

5) IF JOISTS ARE INCLUDED WITH THIS PROJECT, THEY ARE SUPPLIED AS A PART OF THE SYSTEM-ENGINEERED METAL BUILDING AND ARE FABRICATED IN ACCORDANCE WITH THE REQUIREMENTS OF SECTION 1024.700 OF THE OSHA SAFETY STANDARD FOR STEEL ERECTION, DATED JANUARY 18, 2001.

**6) 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) OR 55  
 HOT-ROLLED STRUCTURAL \_\_\_\_\_ A36 OR A572 GRADE 50  
 STRUCTURAL TUBE \_\_\_\_\_ A500 GRADE B (48 KSI)  
 STRUCTURAL PIPE \_\_\_\_\_ A500 GRADE B (42 KSI)  
 COLD-FORMED STRUCTURAL \_\_\_\_\_ A1011 SS (OR HSLAS CL1) OR 55 MOD 57  
 RPB ROOF PANELS \_\_\_\_\_ A792 GRADE 80  
 STANDING SEAM ROOF PANELS \_\_\_\_\_ A792 GRADE 50, CLASS 1  
 R-PANEL AND A-PANEL SIDING \_\_\_\_\_ A529 GRADE 50, CLASS 1 OR A792 GRADE 80, 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: GRAY

ROOF SHEETING, TYPE: CFR 24 GAGE, FINISH: POLAR WHITE

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™  VISE LOCK™  VISE LOCK 360™

COMPOSITE ROOF DECK, TYPE: N/A \_\_\_\_\_ GAGE, FINISH: \_\_\_\_\_

ROOF DECK ONLY, TYPE: N/A \_\_\_\_\_ GAGE, FINISH: \_\_\_\_\_

ROOF LINE TRIM, PAINTED: WARM WHITE, CYPRESS GREEN

CANOPY ROOF LINE TRIM, PAINTED: CYPRESS GREEN

EXTERIOR WALL SHEETING, TYPE: CLASSIC WALL 24 GAGE, FINISH: WARM WHITE, CYPRESS GREEN

EXTERIOR WALL CORNER TRIM FINISH: WARM WHITE, CYPRESS GREEN

EXTERIOR BASE TRIM, PAINTED: WARM WHITE

FRAMED OPENING TRIM, PAINTED: WARM WHITE

FRAMED OPENING COVER TRIM, PAINTED: WARM WHITE

WALL FRAMED OPENING, SIZES: (3) 14'-0"x14'-0" (2) 10'-0"x14'-0"

INTERIOR WALL SHEETING, TYPE: CLASSIC WALL 28 GAGE, FINISH: POLAR WHITE

INTERIOR CEILING LINER, TYPE: N/A \_\_\_\_\_ GAGE, FINISH: \_\_\_\_\_

INTERIOR WALL TRIM, PAINTED: POLAR WHITE

YES	NO	<input checked="" type="checkbox"/>	DOWNSPOUTS PAINTED: <u>CYPRESS GREEN</u> GUTTERS PAINTED: <u>CYPRESS GREEN</u>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WALKDOORS, QUANTITY: (4) <u>3070</u> PAINTED: <u>POLAR WHITE</u>
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	WINDOWS: _____ PAINTED: _____
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	INSULATION (NOT BY MBS), ROOF: <u>6" BATT</u> WALLS: <u>4" BATT</u>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	CRANES (SEE CRANE PLAN FOR ADDITIONAL CRANE INFORMATION)
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	MEZZANINE (SEE MEZZANINE PLAN FOR ADDITIONAL MEZZANINE INFO)
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WALL TRANSLUCENT PANELS, LENGTH: <u>10' - 8"</u> QUANTITY: <u>347</u>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	ROOF TRANSLUCENT PANELS, LENGTH: <u>10'-2"</u> QUANTITY: <u>318</u>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	INSULATED PANELS YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	PIPE JACKS, SIZE: <u>4" - 7"</u> QUANTITY: <u>4</u>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	ROOF FRAMED OPENINGS, SEE ROOF FRAMING PLAN FOR SIZES
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	ROOF CURBS (BY MBS), SEE ROOF FRAMING PLAN FOR SIZES
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	RIDGE VENTS, 10'-0" LONG X <input type="checkbox"/> 12" X <input type="checkbox"/> 9" THROAT. QUANTITY: _____
		<input type="checkbox"/>	SINGLE UNITS <input type="checkbox"/> CONTINUOUS UNITS <input type="checkbox"/>

YES	NO	<input type="checkbox"/>	FASCIA, PROJECTION: _____ TOP OF FASCIA HEIGHT: _____
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	FACE PANEL, TYPE: _____ GAGE, FINISH: _____
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	BACK PANEL, TYPE: _____ GAGE, FINISH: _____
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	CAP TRIM PAINTED: _____ BASE TRIM PAINTED: _____
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	CLOSED SYSTEM, CLEAR UNDER SOFFIT TRIM: _____
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	SOFFIT PANEL, TYPE: _____ GAGE, FINISH: _____
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	SOFFIT TRIM AT BUILDING LINE PAINTED: _____
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	OPEN SYSTEM, (NO SOFFIT PANEL PROVIDED)
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	CLEAR UNDER FASCIA: _____
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	PARAPET SYSTEM
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	STRUCTURAL PARAPET <input type="checkbox"/> NON-STRUCTURAL PARAPET <input type="checkbox"/> NOT BY MBS
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	TOP OF PARAPET HEIGHT: _____
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	BACKER PANEL, TYPE: _____ GAGE, FINISH: _____
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	CANOPY (EXPOSED BEAM), PROJECTION: <u>5'-0"</u>
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	AT EAVE LINE <input type="checkbox"/> BELOW EAVE <input checked="" type="checkbox"/>
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	ROOF PANEL, TYPE: <u>CLASSIC</u> <u>28</u> GAGE, FINISH: <u>POLAR WHITE</u>
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	SOFFIT PANEL, TYPE: <u>N/A</u> _____ GAGE, FINISH: _____
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	SOFFIT TRIM AT BUILDING LINE PAINTED: <u>N/A</u>
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	CLEAR UNDER CANOPY BEAM: <u>14'-0"</u>
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	BOXED-OUT CANOPY, PROJECTION: _____ AT EAVE LINE <input type="checkbox"/> BELOW EAVE <input type="checkbox"/>
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	ROOF PANEL, TYPE: _____ GAGE, FINISH: _____
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	FACE PANEL, TYPE: _____ GAGE, FINISH: _____
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	SOFFIT PANEL, TYPE: _____ GAGE, FINISH: _____
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	SOFFIT TRIM AT BLDG LINE PAINTED: _____
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	CLEAR UNDER SOFFIT: _____ BASE TRIM PAINTED: _____
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	EAVE EXTENSION (CONCEALED BEAM), PROJECTION: _____
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	SOFFIT PANEL, TYPE: _____ GAGE, FINISH: _____
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	SOFFIT TRIM AT BUILDING LINE PAINTED: _____
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	RAKE EXTENSION, PROJECTION: _____
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	SOFFIT PANEL, TYPE: _____ GAGE, FINISH: _____
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	SOFFIT TRIM AT BUILDING LINE PAINTED: _____
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	PARTITION WALL SHEETING
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	PANEL TYPE: _____ GAGE, FINISH: _____
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	PARTITION WALL TRIM COLOR: _____

**BUILDING LOADS**

DESIGN CODE: IBC 2003 BUILDING END USE: 3A

ROOF LIVE LOAD: 20 PSF MBMA OCC. CLASS: II - STANDARD BUILDINGS

REDUCIBLE PER CODE \_\_\_\_\_

GROUND SNOW LOAD: 10 PSF SNOW EXP. FACTOR, Ce: 1

SNOW IMPORTANCE FACTOR, Is: 1

WIND: 97 mph WIND IMPORTANCE FACTOR, Iw: 1

EXPOSURE: B 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. 508

SEISMIC INFORMATION: S=0.748, S1=0.198

Design Sds/Sd1: 0.599/0.263 Site Class: D

Seismic Imp. Factor Ie: 1, Seismic Design Category: D

Analysis Procedure: Equivalent Lateral Force Method

Basic SERS: Ordinary Steel Moment Frames & Ordinary Steel Concentrically - Braced Frames

NOTES:  
 1) COLLATERAL DEAD LOADS, UNLESS OTHERWISE NOTED, ARE ASSUMED TO BE UNIFORMLY DISTRIBUTED. WHEN SUSPENDED SPRINKLER SYSTEMS, LIGHTING, HVAC EQUIPMENT, CEILING, 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 BUILDING	
	Main	Paint
ROOF DEAD (PSF):	4.50	4.50
PRI. COL. (PSF):	5.00	5.00
SEC. COL. (PSF):	5.00	5.00
SNOW CL:	1	1
SNOW CS:	1	1
ROOF SNOW (PSF):	7	10
WIND ENCLOSURE:	Enclosed	Enclosed
GCo:	+/-0.18	+/-0.18
SEISMIC R:	3.5	3.5
SEISMIC CS:	0.171	0.171
BASE SHEAR (KIPS):	459.2	47.2

THE FRAME AT LINES 1, 5, & 18 IS DESIGNED FOR A FUTURE BAY EXPANSION OF 50'-0" FROM THE CENTERLINE OF THAT FRAME TO THE CENTERLINE OF THE FUTURE FRAME. DUE TO THE UNLIMITED AMOUNT OF ENDWALL EXPANSION THAT THIS STRUCTURE COULD EXPERIENCE, THE APPLIED SNOW DRIFT AND SEISMIC DESIGN LOADINGS HAVE BEEN DEVELOPED IN ACCORDANCE WITH THE ABOVE REFERENCED BUILDING CODE, CONSIDERING ONLY THE CURRENT BUILDING LENGTH, PLUS ONE ADDITIONAL BAY (TOTAL LENGTH = 520'-0"). ANY ADDITIONAL BUILDING EXPANSION BEYOND THIS LENGTH WILL REQUIRE AN ENGINEERING INVESTIGATION AND POSSIBLE BUILDING REINFORCEMENT.

THE RIGID FRAME CONNECTIONS IN THIS PROJECT MUST BE TIGHTENED TO THEIR FULLY-PRE-TENSIONED STATE USING ANY OF THE ACCEPTABLE METHODS OUTLINED IN THE RCSC SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS, 2004 EDITION. THE SCOPE OF THIS PROJECT PRECLUDES THE USAGE OF SNUG-TIGHT BOLTED CONNECTIONS AND ARE THUS NOT PERMITTED IN THIS CASE.

THE SPANDREL BEAM WHICH SUPPORTS THE TOP OF THE MASONRY WALL MUST BE ATTACHED TO THE WALL AT 5'-0" O.C. (MAXIMUM). ALSO, THE BEAM MUST BE ATTACHED TO THE WALL NO MORE THAN 6" AWAY FROM EACH WEB SHEAR STIFFENER POINT. THE DESIGN OF THIS ATTACHMENT IS BY OTHERS. FIELD DRILLING OF THE BEAM FOR A BOLTED ATTACHMENT WILL BE REQUIRED. PLEASE REFERENCE THE "SPANDREL BEAM TO NON-LOAD BEARING MASONRY WALL" DETAILS.

**REVISION NOTES:**

1 -REVISED BASEPLATE SIZE ON DETAILS C, M, N, P, & Q. ALSO ADDED DETAILS "S" AND "T" FOR CLARITY.

**REVISION NOTES:**

2 -IN THE PAINT BUILDING, THE FRAME OFFSET FROM LINE 1 CHANGED FROM 1'-4" TO 1'-6". SEE DETAILS M & N FOR REVISIONS.

**FOR CONSTRUCTION**  
 THIS IS NOT AN APPROVAL SET  
 AUG 20 2008  
 YOUR BUILDING IS BEING FABRICATED.  
 NO CHANGES CAN BE MADE.

**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-F4

COLUMN BASE REACTIONS R1-R \_\_\_\_\_ (SEPARATE 8 1/2" X 11" SUBMITTAL)

STRUCTURAL/SHEETING DRAWINGS F1-E5, E5.5, E5.7, E6-E31, E31.1, E31.5, E31.9, E32-E33, E33.5, E34-E48

DETAILS D1-D11, D11.5, D12-D13, D13.5, D14-D18, D18.5, D17-D23

DATE	P.L.E.	ENG.	CHK.	DWN.	ISSUE
5/23/08	JET	JET	JET	JH/MS	PERMITS
5/23/08	JET	JET	JET	JH/MS	APPROVALS
5/23/08	JET	JET	JET	JH/MS	CRANE CONFIRMATION
6/13/08	JET	JET	JET	MBS	CONSTRUCTION ANCHOR BOLTS
7/07/08	JET	JET	JET	MBS	ANCHOR BOLT REVISION #1
8/05/08	JET	JET	JET	RVM	ANCHOR BOLT REVISION #2
8/20/08	JET	JET	JET	DB/MS/LB/AL	FINAL ERECTION

**NUCOR BUILDING SYSTEMS**

PO BOX 1006, 200 WHELSTONE RD.  
 SWANSEA, SC 29160  
 PHONE: (803) 568-2100  
 FAX: (803) 568-2121

**OLYMPIC STEEL**

SUMTER, SC

**THOMPSON TURNER CONSTRUCTION CO.**

SUMTER, SC

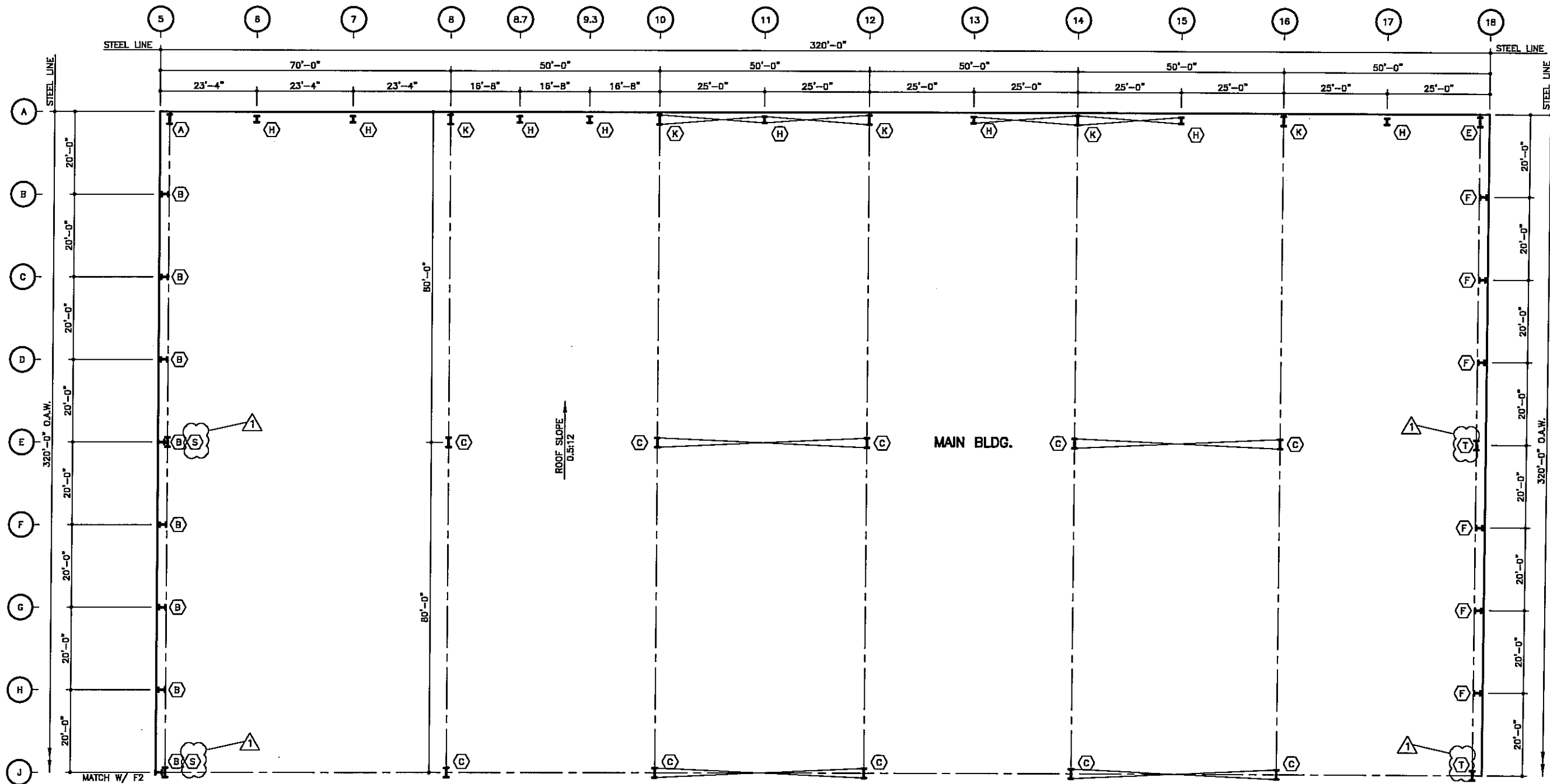
JOB NUMBER: S08A0248A

SHEET NO: C1 of 1

No. 20261

8-9-08

THIS SEAL PERTAINS ONLY TO THE MATERIALS DESIGNED AND SUPPLIED BY NUCOR BUILDING SYSTEMS, A DIVISION OF NUCOR CORPORATION. THE DRAWINGS AND THE METAL BUILDING WHICH THEY REPRESENT ARE THE PRODUCT OF NUCOR BUILDING SYSTEMS. THE REGISTERED PROFESSIONAL ENGINEER WHOSE SEAL APPEARS ON THESE DRAWINGS IS EMPLOYED BY NUCOR BUILDING SYSTEMS AND DOES NOT SERVE AS OR REPRESENT THE PROJECT ENGINEER OF RECORD AND SHALL NOT BE CONSTRUED AS SUCH.



**ANCHOR BOLT PLAN**

**GENERAL NOTES**

1. THE SPECIFIED ANCHOR BOLT SIZE ASSUMES ASTM F1554 GRADE 36 THREADED ROD MATERIAL FOR THE BOLTS. A36 THREADED ROD MAY BE USED IN PLACE OF F1554 ROD. ANCHOR BOLT EMBEDMENT LENGTH IS TO BE DETERMINED BY THE FOUNDATION DESIGN ENGINEER.
2. THE METAL BUILDING MANUFACTURER IS NOT RESPONSIBLE FOR FOUNDATION DESIGN. THE FOUNDATION DESIGN SHALL BE DONE BY A REGISTERED PROFESSIONAL ENGINEER, FAMILIAR WITH LOCAL SITE CONDITIONS.
3. ALL ANCHOR BOLTS, FLAT WASHERS FOR ANCHOR BOLTS, EXPANSION BOLTS, AND ALL CONCRETE/MASONRY EMBEDS ARE NOT BY THE METAL BUILDING MANUFACTURER.
4. THIS DRAWING IS NOT TO SCALE.
5. FINISHED FLOOR ELEVATION = 100'-0"
6. "SINGLE" CEE COLUMNS SHOULD BE ORIENTED WITH THE "TOES" TOWARD THE LOW EAVE UNLESS SHOWN OTHERWISE.

- CROSS BRACING

BOTTOM OF BASEPLATE  
ELEV. = 100'-0"  
AT FINISHED FLOOR

ANCHOR BOLT SCHEDULE		
QUANTITY	SIZE	PROJECTION
120	3/4"	3" FROM BOTTOM OF BASE PLATE
N/A	1"	3" FROM BOTTOM OF BASE PLATE
534	1 1/4"	3" FROM BOTTOM OF BASE PLATE

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

NOTE:  
MASONRY WALLS NEED TO BE POKETED FOR CLEARANCE OF ANCHOR BOLTS, BASEPLATES, AND BASEPLATE STIFFENERS.

**FOR CONSTRUCTION  
THIS IS NOT AN APPROVAL SET.**

AUG 20 2008

YOUR BUILDING IS BEING FABRICATED.

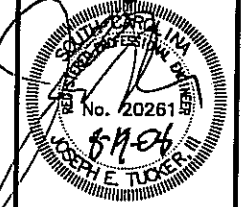
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5/23/08	JET	JET	JET	JH/MS	PERMITS
5/23/08	JET	JET	JET	JH/MS	APPROVALS
5/23/08	JET	JET	JET	JH/MS	CRANE CONFIRMATION
6/13/08	JET	JET	JET	MRS DVB	CONSTRUCTION ANCHOR BOLTS
7/07/08	JET	JET	JET	MRS NDD	ANCHOR BOLT REVISION
8/05/08	JET	JET	JET	DVB	ANCHOR BOLT REVISION #2
8/20/08	JET	JET	JET	DB/MS/LE/NL	FINAL ERECTION

**NUCOR BUILDING SYSTEMS**  
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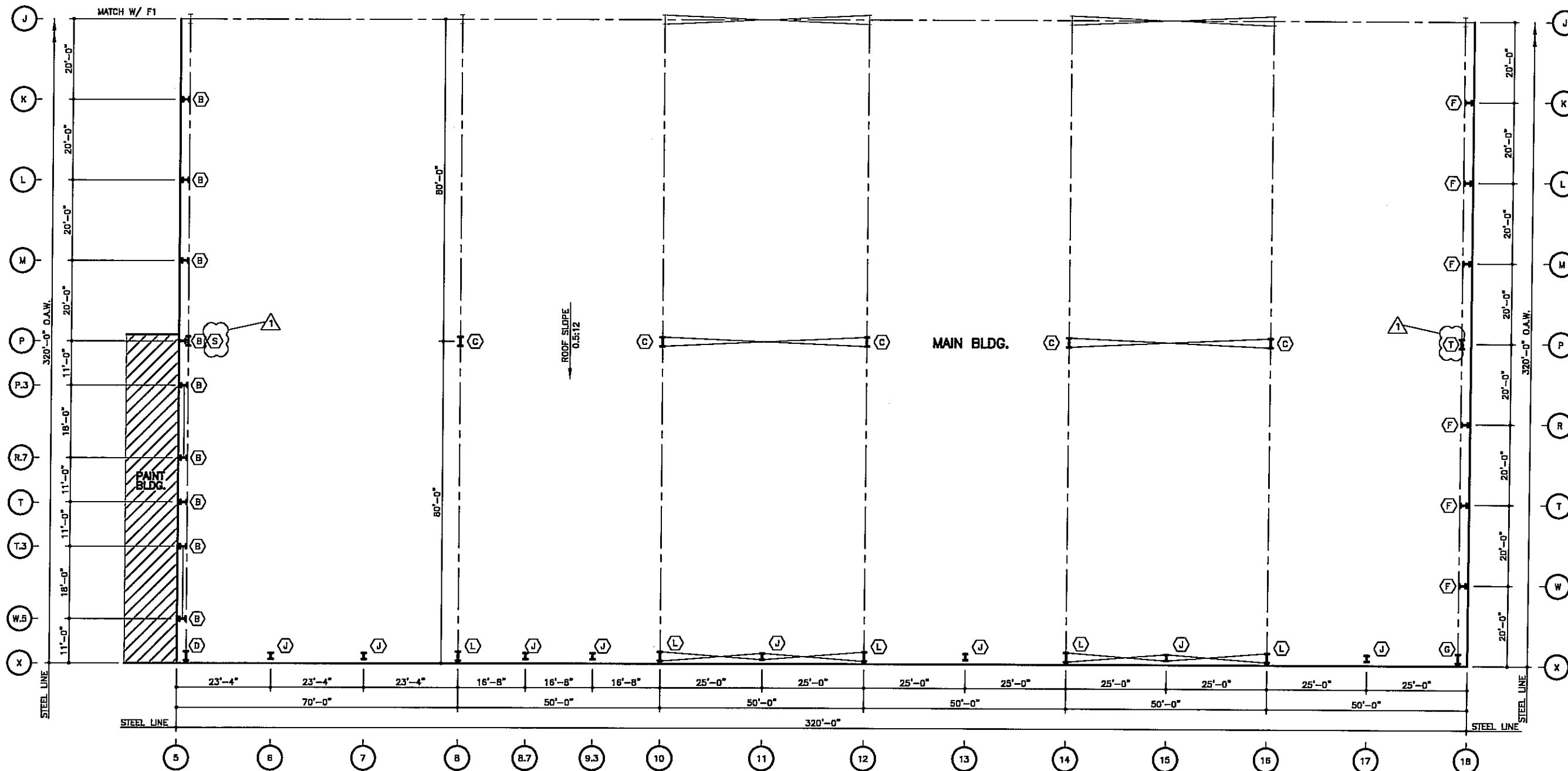
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SUMTER, SC  
CUSTOMER: THOMPSON TURNER CONSTRUCTION CO.  
SUMTER, SC

JOB NUMBER: S08A0248A

SHEET NO: F1 of 4



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**ANCHOR BOLT PLAN**  
SEE SHEET F1 FOR NOTES

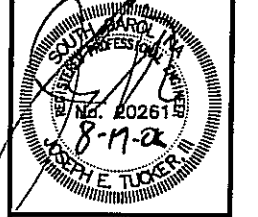
ISSUE	PERMITS	APPROVALS	CRANE CONFIRMATION	CONSTRUCTION ANCHOR BOLTS	ANCHOR BOLT REVISION	ANCHOR BOLT REVISION #2	FINAL ERECTION
OWN	CHK	ENG	P.E.	DATE			
JH/MS	NDD	JET	JET	5/23/08			
JH/MS	NDD	JET	JET	5/23/08			
JH/MS	NDD	JET	JET	5/23/08			
MRS	DWB	JET	JET	6/13/08			
MRS	NDD	JET	JET	7/07/08			
DWB	RMW	JET	JET	8/05/08			
DB/MS/LB/NL	JET			8/20/08			

**NUCOR BUILDING SYSTEMS**  
PO BOX 1006, 200 WHELSTONE RD.  
SWANSEA, SC 29160  
PHONE: (803) 568-2100  
FAX: (803) 568-2121

PROJECT NAME: OLYMPIC STEEL  
SUMTER, SC  
CUSTOMER: THOMPSON TURNER CONSTRUCTION CO.  
SUMTER, SC

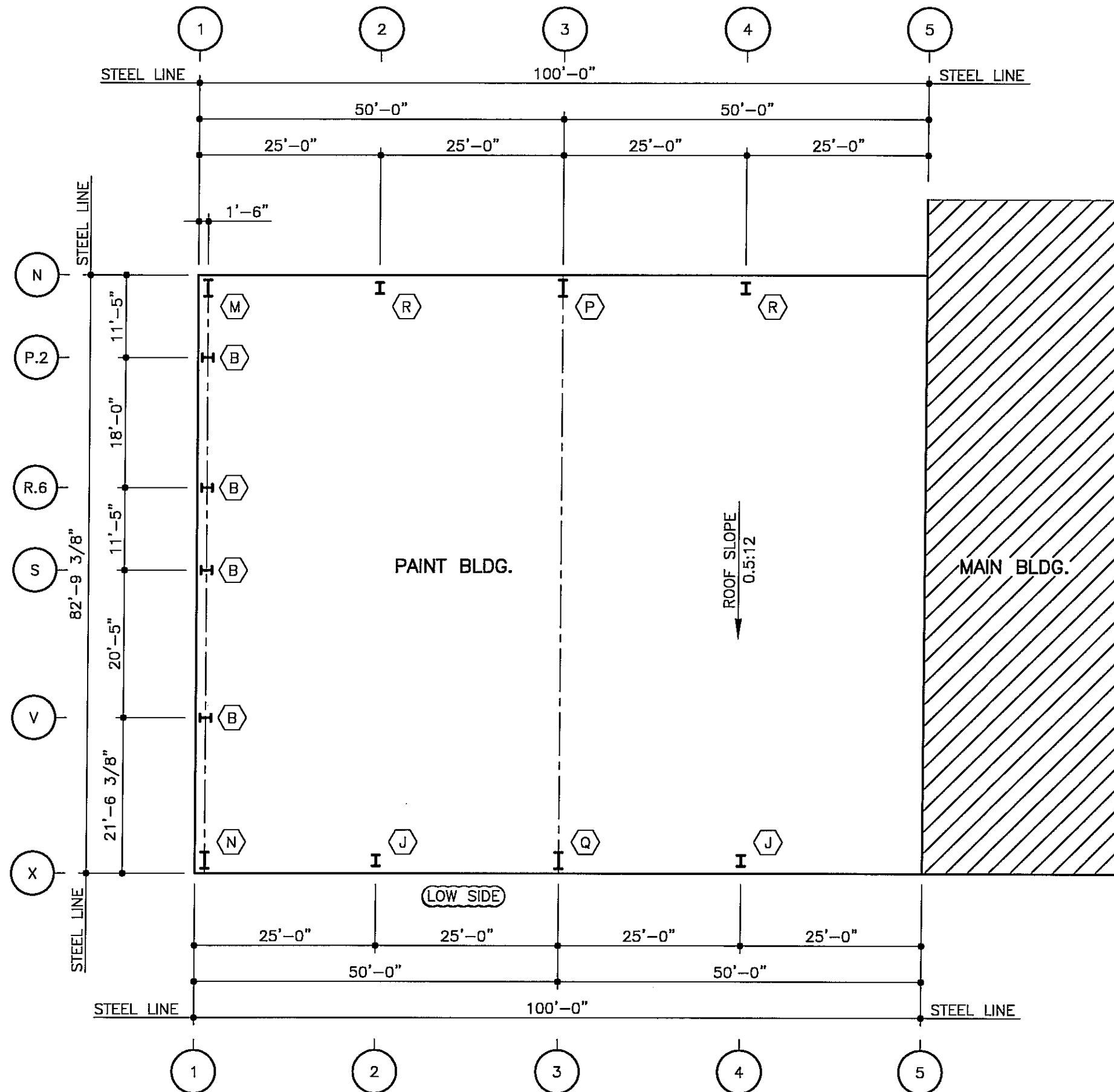
JOB NUMBER: SOBA0248A

SHEET NO: F2 of 4



FOR CONSTRUCTION  
THIS IS NOT AN APPROVAL SET.  
AUG 20 2008  
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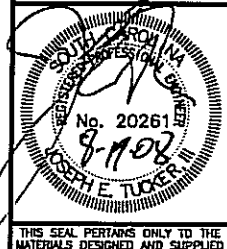
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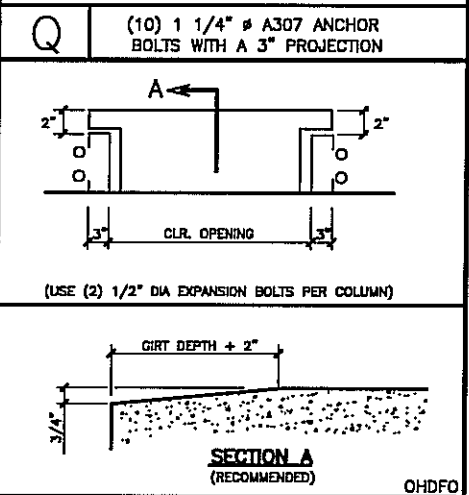
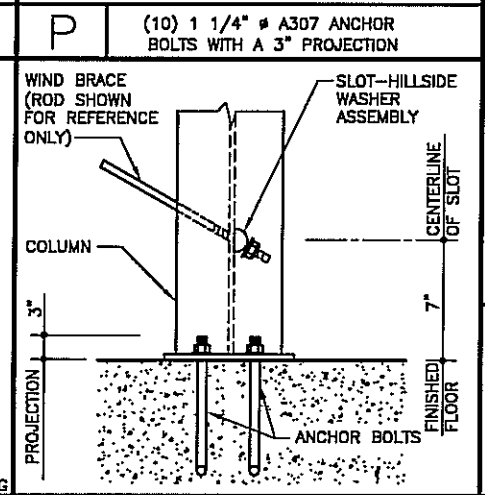
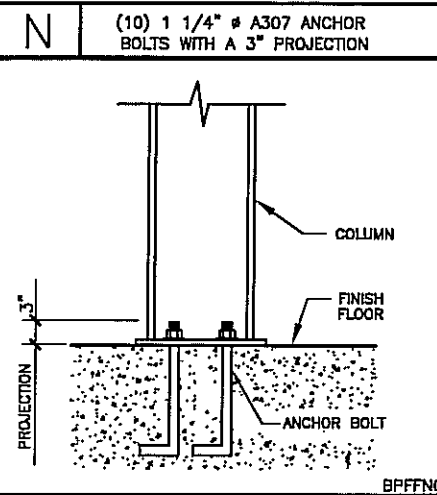
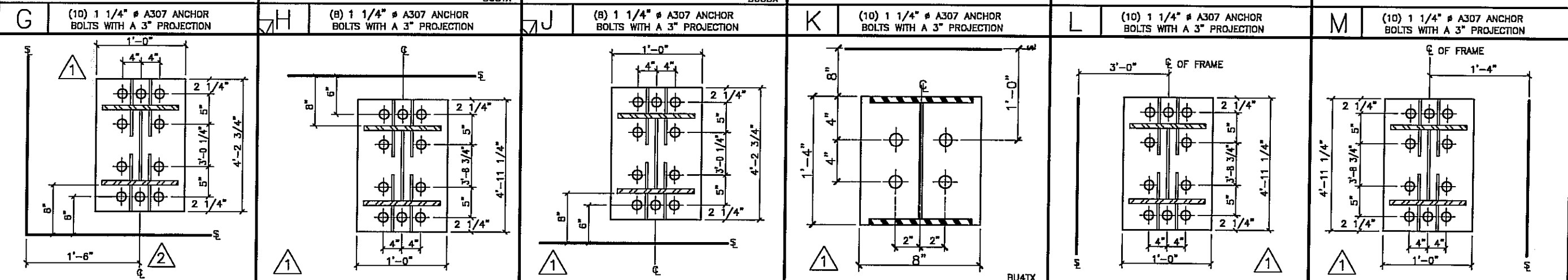
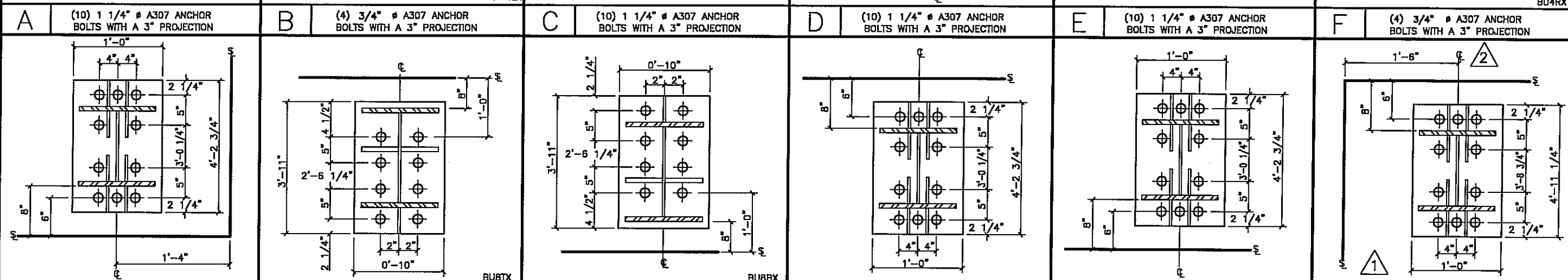
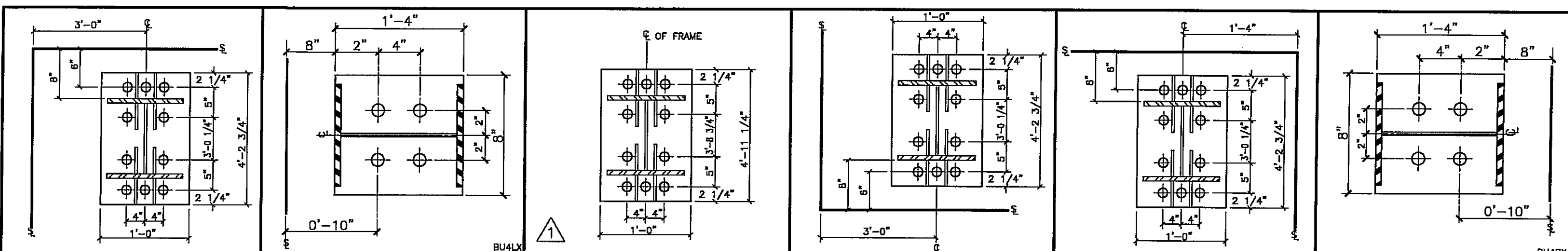
**ANCHOR BOLT PLAN**  
SEE SHEET F1 FOR NOTES

FOR CONSTRUCTION  
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AUG 20 2008  
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NO CHANGES CAN BE MADE.

PROJECT NAME: OLYMPIC STEEL SUMTER, SC	CUSTOMER: THOMPSON TURNER CONSTRUCTION CO. SUMTER, SC	JOB NUMBER: SO8A0248A		SHEET NO: F3 of 4		
		PROJECT NAME: <b>NUCOR</b> BUILDING SYSTEMS PO BOX 1006, 200 WHELTSTONE RD. SWANSEA, SC 29160 PHONE: (803) 568-2100 FAX: (803) 568-2121		ISSUE		
PERMITS		OWN	CHK	ENG	P.E.	DATE
APPROVALS		JH/MS	NDD	JET	JET	5/23/08
CRANE CONFIRMATION		JH/MS	NDD	JET	JET	5/23/08
CONSTRUCTION ANCHOR BOLTS		JH/MS	NDD	JET	JET	5/23/08
ANCHOR BOLT REVISION #1		MRS	DVB	JET	JET	6/13/08
ANCHOR BOLT REVISION #2		MRS	NDD	JET	JET	7/07/08
FINAL ERECTION		DVB	RAM	JET	JET	8/05/08
		DB/ASL/AL	JET	JET	JET	8/20/08



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DATE	P.E.	ENG.	CHK.	DWN.
5/23/08	JET	JET	JET	JH/AS
5/23/08	JET	JET	JET	JH/AS
5/23/08	JET	JET	JET	JH/AS
6/13/08	JET	JET	JET	MRS DVB
7/07/08	JET	JET	JET	MRS NDD
8/05/08	JET	JET	JET	DVB
8/20/08	JET	JET	JET	DB/MS/LB/AL

**NUCOR BUILDING SYSTEMS**  
 PO BOX 1006, 200 WHELSTONE RD.  
 SWANSEA, SC 29160  
 PHONE: (803) 568-2100  
 FAX: (803) 568-2121

PROJECT NAME: OLYMPIC STEEL  
 SUMTER, SC  
 CUSTOMER: THOMPSON TURNER CONSTRUCTION CO.  
 SUMTER, SC

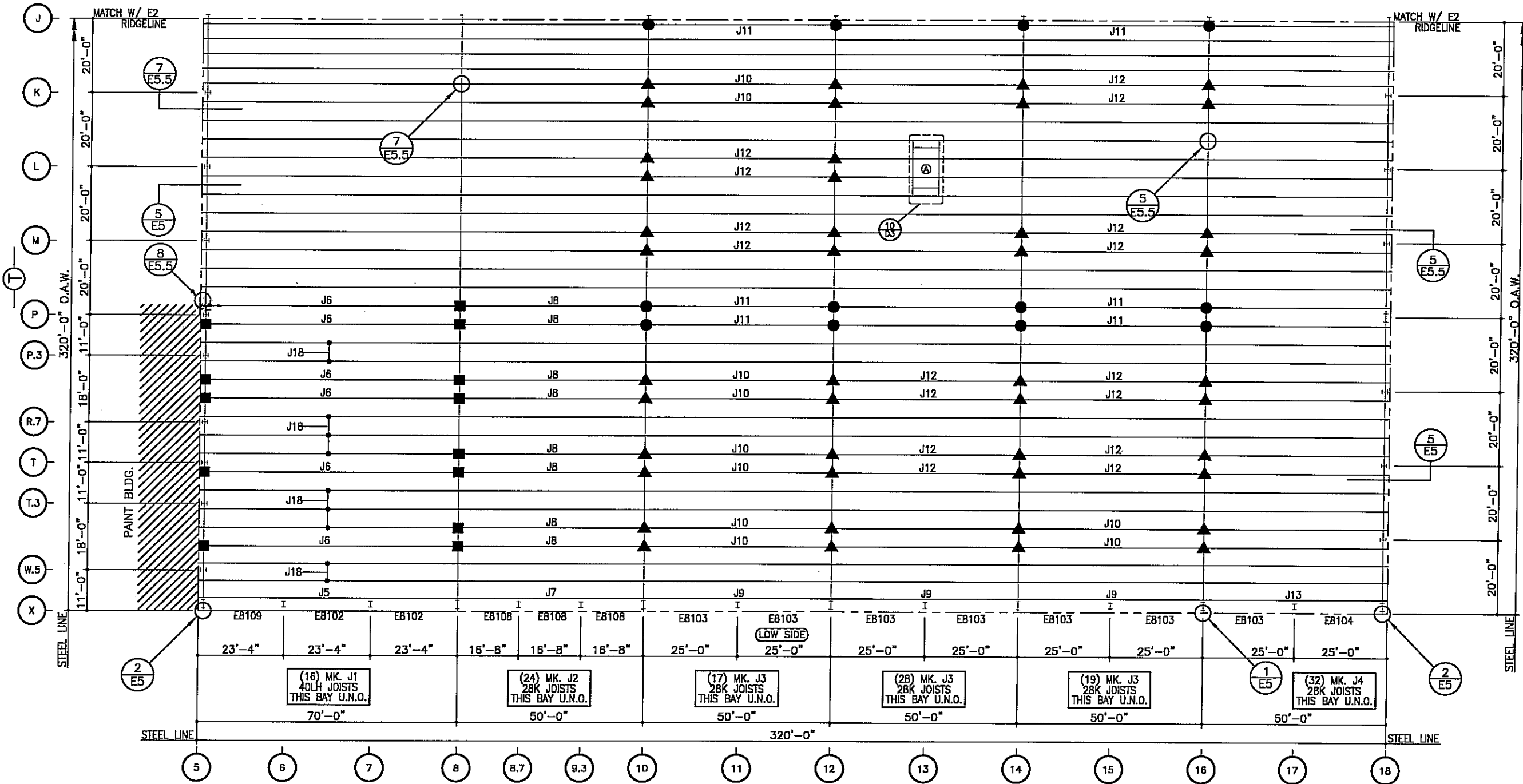
JOB NUMBER: S08A0248A

SHEET NO: F4 of 4

FOR CONSTRUCTION  
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 AUG 20 2008  
 YOUR BUILDING IS BEING FABRICATED.  
 NO CHANGES CAN BE MADE.

ROOF FRAMED OPENING SCHEDULE					
ROOF TOP UNIT QUANTITY, SIZE, AND WEIGHT				FRAMING MARK NUMBERS	
	PARALLEL TO PURLINS	PERPENDICULAR TO PURLINS		PERPENDICULAR TO PURLINS	PARALLEL TO PURLINS
QTY	WIDTH	LENGTH	WEIGHT (lbs)	JAMBS	HEADERS
A	10	8'-7 1/2"	8'-7 1/2"	1170	J8C10 H8C10

TOTAL QTY. REQ'D



### MAIN BLDG. ROOF FRAMING PLAN

- 1) ALL JOIST ARE BOLTED JOIST CONNECTION USING 1/2" x 2" A325 BOLTS WITH WASHERS. INSTALL THESE PRIOR TO PLACING JOIST BUNDLES ON FRAMING, IN ACCORDANCE WITH O.S.H.A. RECOMMENDATIONS.
- 2) ⊖ indicates TAGGED END OF JOIST.
- 3) SEE SHEET E12-14 & 16-18 FOR MAIN FRAME FLANGE BRACING.
- 4) ALL EAVE STRUTS ARE (BE060) U.N.O.
- 5) ● ▲ ■ - INDICATES SPECIAL JOIST CONNECTION. SEE DETAILS 6/E5.5 AND 4/E5.5.

THIS IS THE JOIST FRAMING PLAN. FOR ALL JOIST BRIDGING REQUIREMENTS AND INSTALLATION DETAILS, REFERENCE THE SEPARATE JOIST BRIDGING PACKET.

FOR CONSTRUCTION THIS IS NOT AN APPROVAL SET.

AUG 20 2008

**NUCOR BUILDING SYSTEMS**  
 PO BOX 1006, 200 WHESTONE RD.  
 SWANSEA, SC 29160  
 PHONE: (803) 568-2100  
 FAX: (803) 568-2121

PRODUCT NAME: OLYMPIC STEEL  
 SUMTER, SC  
 CUSTOMER: THOMPSON TURNER CONSTRUCTION CO.  
 SUMTER, SC

JOB NUMBER: 508A0248A  
 SHEET NO: E1 of 48

DATE: 5/23/08  
 5/23/08  
 5/23/08  
 8/20/08

ISSUE: PERMITS APPROVALS CRANE CONFIRMATIONS FINAL ERECTION

DRN: JH/MS NDD JH/MS NDD JH/MS NDD DB/MS/BL/JJA

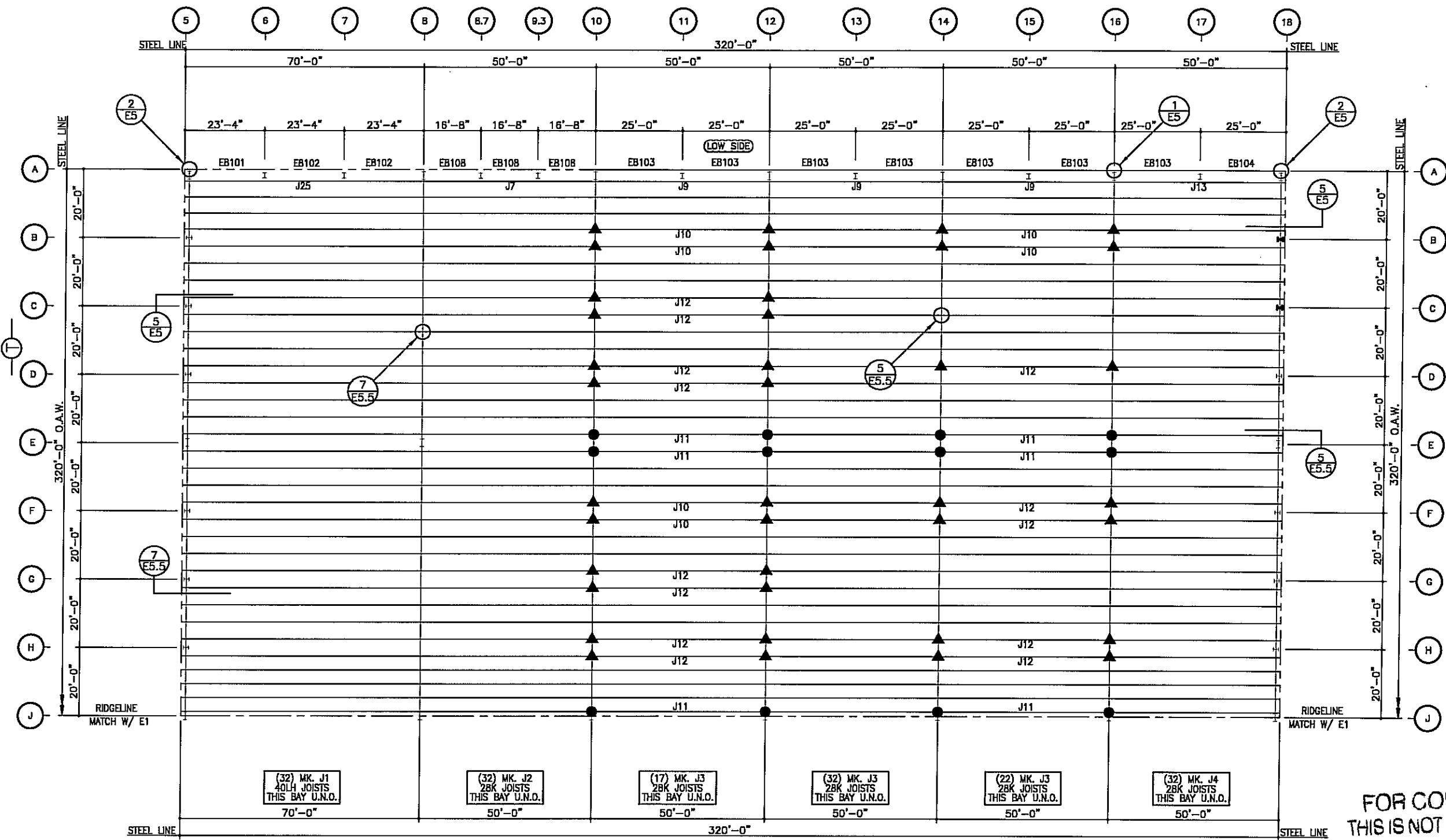
ENG: JET JET JET JET

DATE: 5/23/08 5/23/08 5/23/08 8/20/08

NO. 20261  
 E. TUCKER

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YOUR BUILDING IS BEING FABRICATED.



**MAIN BLDG.  
ROOF FRAMING PLAN**

- 1) ALL JOIST ARE BOLTED JOIST CONNECTION USING 1/2" x 2" A325 BOLTS WITH WASHERS. INSTALL THESE PRIOR TO PLACING JOIST BUNDLES ON FRAMING, IN ACCORDANCE WITH O.S.H.A. RECOMMENDATIONS.
- 2) —○— INDICATES TAGGED END OF JOIST.
- 3) SEE SHEET E12-14 & 16-18 FOR MAIN FRAME FLANGE BRACING.
- 4) ALL EAVE STRUTS ARE (8E060) U.N.O.
- 5) ▲●— INDICATES SPECIAL JOIST CONNECTION. SEE DETAILS 6/E5.5 AND 4/E5.5.

THIS IS THE JOIST FRAMING PLAN. FOR ALL JOIST BRIDGING REQUIREMENTS AND INSTALLATION DETAILS, REFERENCE THE SEPARATE JOIST BRIDGING PACKET.

FOR CONSTRUCTION  
THIS IS NOT AN APPROVAL SET

AUG 20 2008

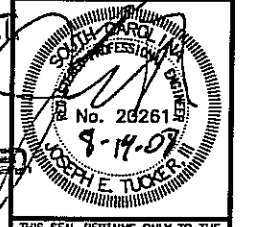
DATE	P.E.	ENG.	CHK.	DRAW.
5/23/08	JET	JET	JET	JH/MS
5/23/08	JET	JET	JET	JH/MS
5/23/08	JET	JET	JET	JH/MS
6/20/08	JET	JET	JET	DB/MSLB/ML/JET

**NUCOR BUILDING SYSTEMS**  
PO BOX 1006, 200 WHEATSTONE RD.  
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PHONE: (803) 568-2100  
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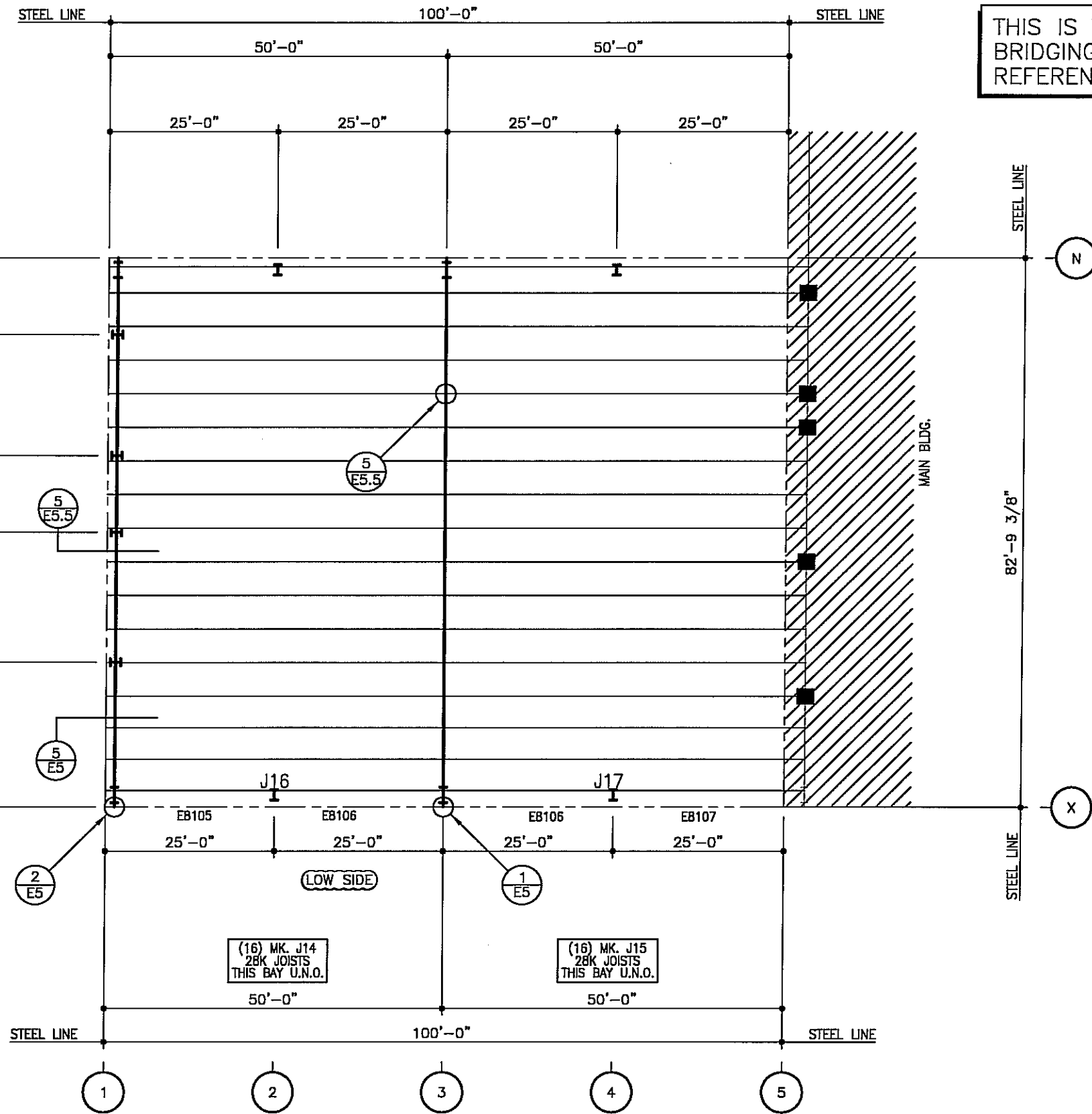
PROJECT NAME: OLYMPIC STEEL  
SUMTER, SC  
CUSTOMER: THOMPSON TURNER CONSTRUCTION CO.  
SUMTER, SC

JOB NUMBER: SOBA0248A

SHEET NO: E2 of 48



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THIS IS THE JOIST FRAMING PLAN. FOR ALL JOIST BRIDGING REQUIREMENTS AND INSTALLATION DETAILS, REFERENCE THE SEPARATE JOIST BRIDGING PACKET.

### PAINT BLDG. ROOF FRAMING PLAN

- 1) ALL JOIST ARE BOLTED JOIST CONNECTION USING 1/2" x 2" A325 BOLTS WITH WASHERS. INSTALL THESE PRIOR TO PLACING JOIST BUNDLES ON FRAMING, IN ACCORDANCE WITH O.S.H.A. RECOMMENDATIONS.
- 2) ⊕ INDICATES TAGGED END OF JOIST.
- 3) FBD\_\_\_/FBI\_\_\_ INDICATES FLANGE BRACING.
- 4) SEE SHEET E15 FOR MAIN FRAME FLANGE BRACING.
- 5) ALL EAVE STRUTS ARE (8E060) U.N.O.
- 6) ■ INDICATES SPECIAL JOIST CONNECTION SEE DETAIL 4/E5.5.

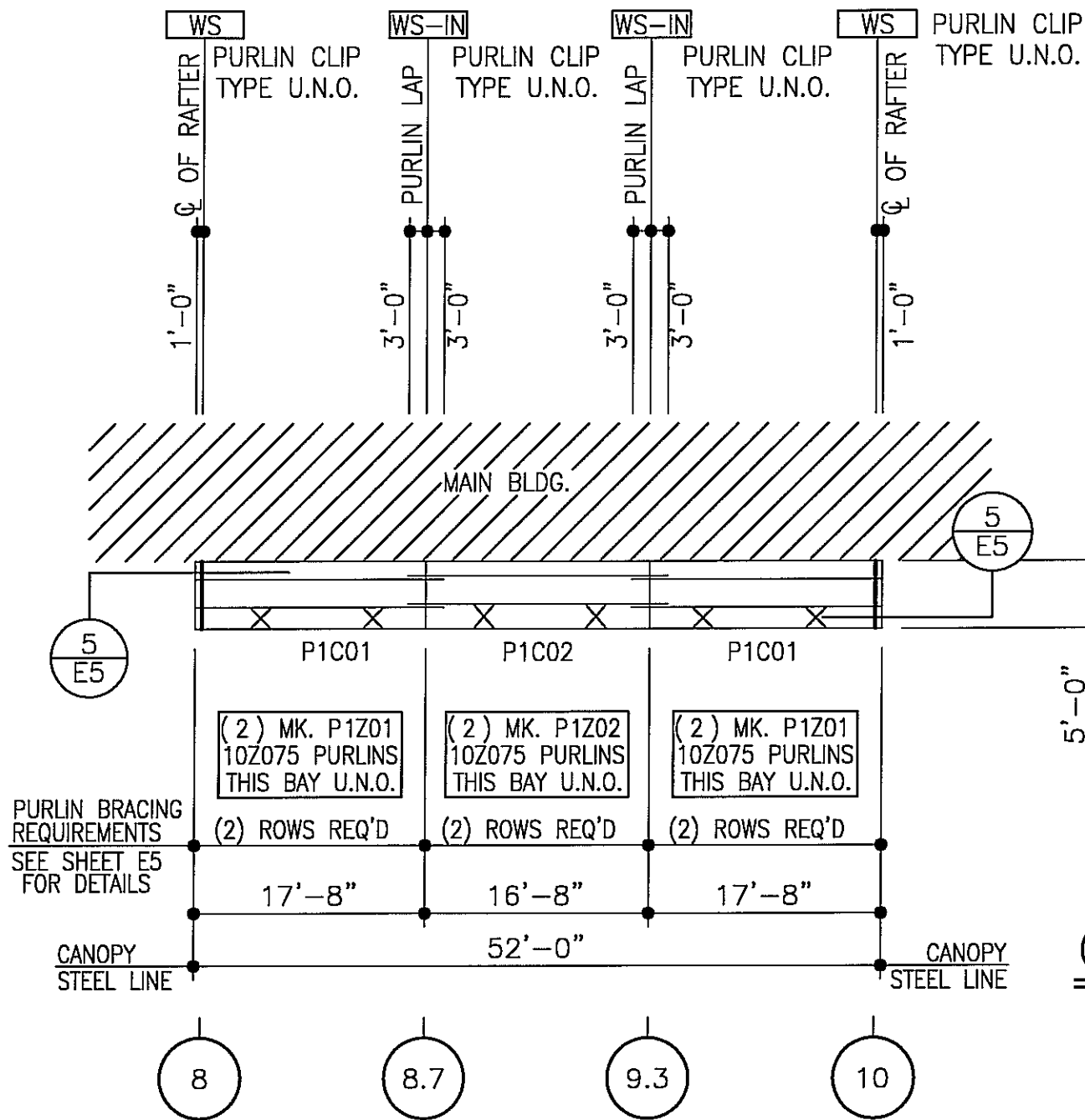
FOR CONSTRUCTION  
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AUG 20 2008

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NO CHANGES CAN BE MADE.

<b>NUCOR</b> <b>BUILDING SYSTEMS</b> PO BOX 1006, 200 WHEATSTONE RD. SWANSEA, SC 29160 PHONE: (803) 568-2100 FAX: (803) 568-2121	ISSUE	DATE
	PERMITS	5/23/08
	APPROVALS	5/23/08
	CRANE CONFIGURATIONS	5/23/08
FINAL ERECTION	8/20/08	
PROJECT NAME:	OLYMPIC STEEL	
JOB NUMBER:	S08A0248A	
SHEET NO.:	E3 of 48	
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## MAIN BLDG. CANOPY FRAMING PLAN AT LINES A & X

- 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 MEMBERS ARE (10C060) TYP. U.N.O.

**FOR CONSTRUCTION  
THIS IS NOT AN APPROVAL SET.**

AUG 20 2008

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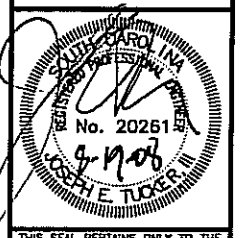
ISSUE	DATE	ENG	P.E.
PERMITS	5/23/08	JET	JET
APPROVALS	5/23/08	JET	JET
CRANE CONFIRMATIONS	5/23/08	JET	JET
FINAL ERECTION	8/20/08	JET	JET

**MUCOR BUILDING SYSTEMS**  
 PO BOX 1006, 200 WHESTONE RD.  
 SWANSEA, SC 29160  
 PHONE: (803) 568-2100  
 FAX: (803) 568-2121

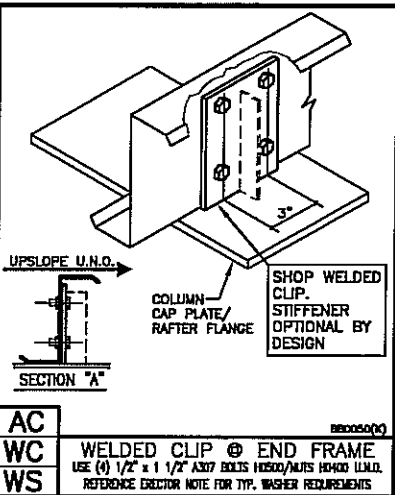
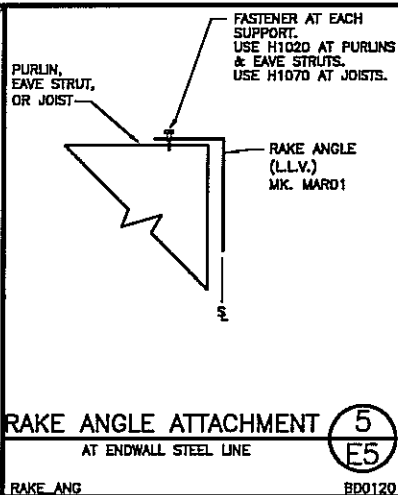
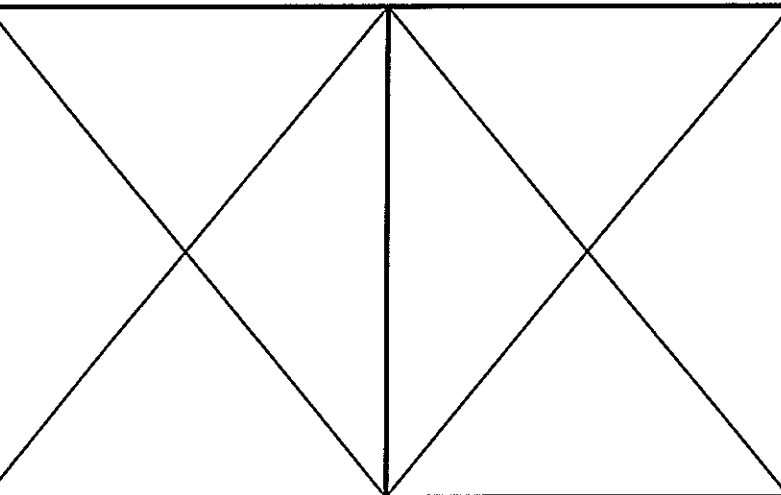
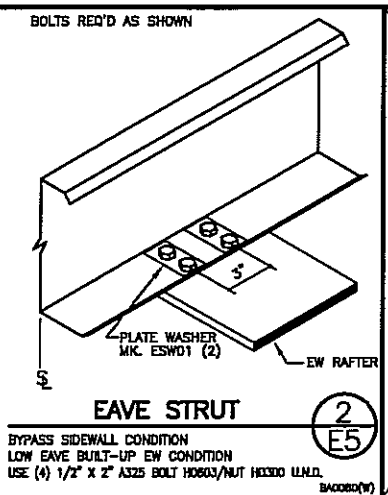
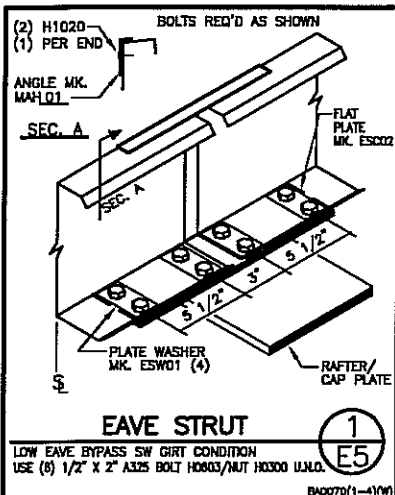
PROJECT NAME: OLYMPIC STEEL  
 SUMTER, SC  
 CUSTOMER: THOMPSON TURNER CONSTRUCTION CO.  
 SUMTER, SC

JOB NUMBER:  
SOBA0248A

SHEET NO:  
E4 of 48



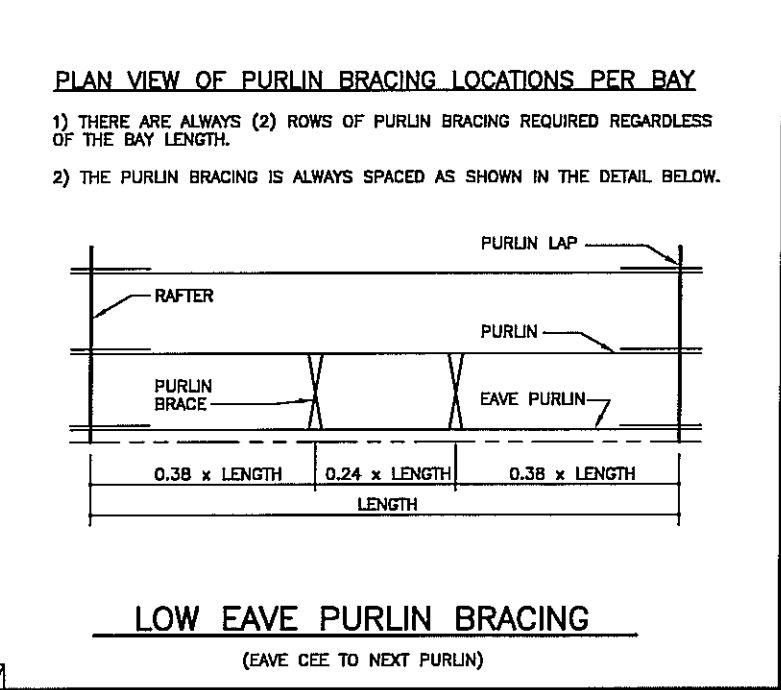
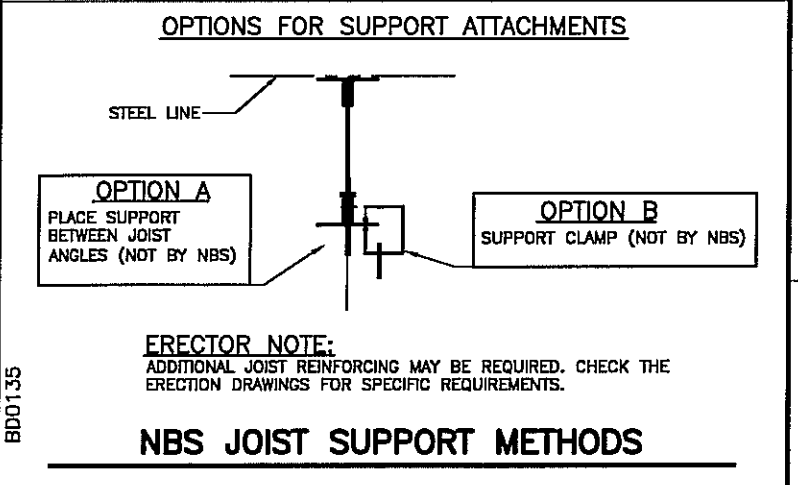
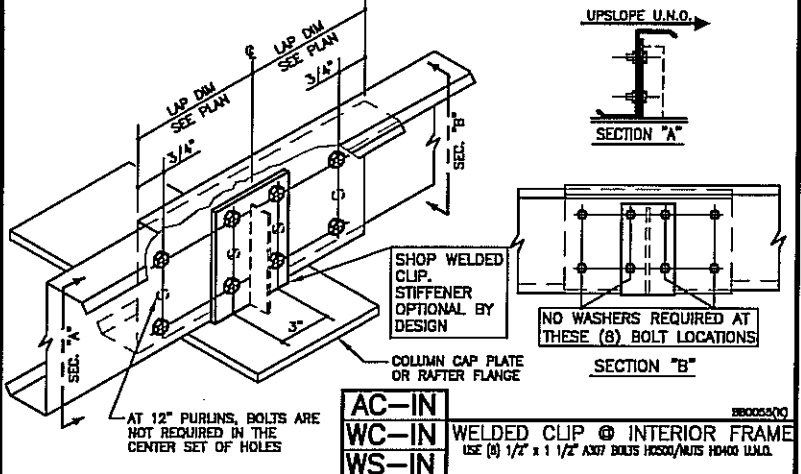
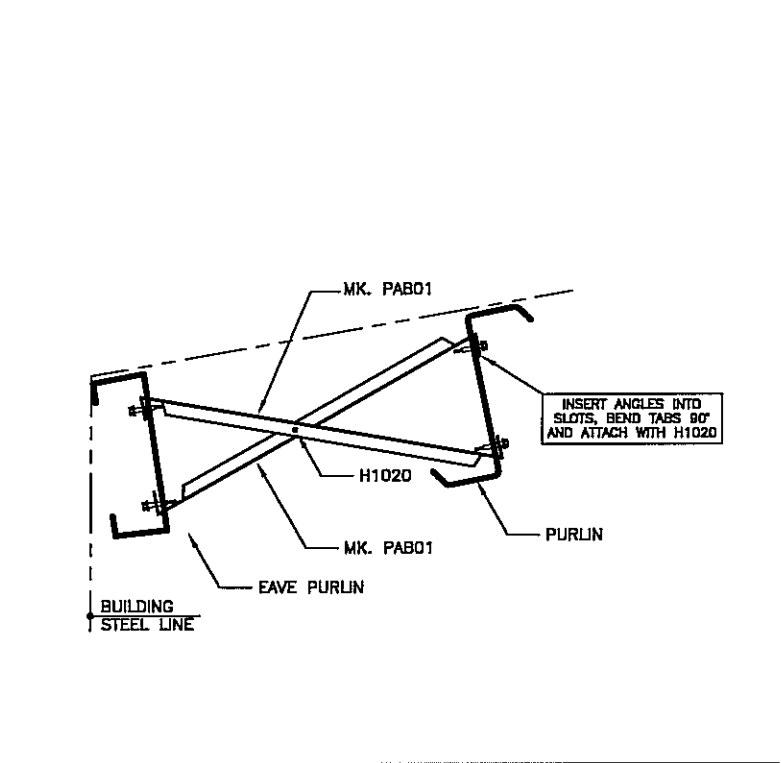
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COLLATERAL DEAD LOADS, UNLESS OTHERWISE NOTED, ARE ASSUMED TO BE UNIFORMLY DISTRIBUTED. WHEN SUSPENDED SPRINKLER SYSTEMS, LIGHTING, HVAC EQUIPMENT, CEILINGS, ETC. ARE SUSPENDED FROM ROOF MEMBERS, CONSULT NUCOR ENGINEERING IF THESE CONCENTRATED LOADS EXCEED 200 POUNDS, OR IF INDIVIDUAL MEMBERS ARE LOADED SIGNIFICANTLY MORE THAN OTHERS.

**GENERAL RESTRICTIONS:**

- UNDER NO CIRCUMSTANCES CAN THE JOIST BE FIELD MODIFIED FROM THE FACTORY SUPPLIED CONDITION.
- ANY APPROVED SUPPORT METHOD USED, **MUST NOT** BE ATTACHED TO THE TOP CHORD OF THE JOIST SO THAT IT WOULD PROTRUDE ABOVE THE STEEL LINE AND INTO THE ROOF PLANE.



BD0135

BE0007

ISSUE	DATE	ENG	P.E.
PERMITS	5/23/08	JM/MS	JET
APPROVALS	5/23/08	JM/MS	JET
CRANE CONFIRMATIONS	5/23/08	JM/MS	JET
FINAL ERECTION	8/20/08	DB/MS/LB/AL	ST

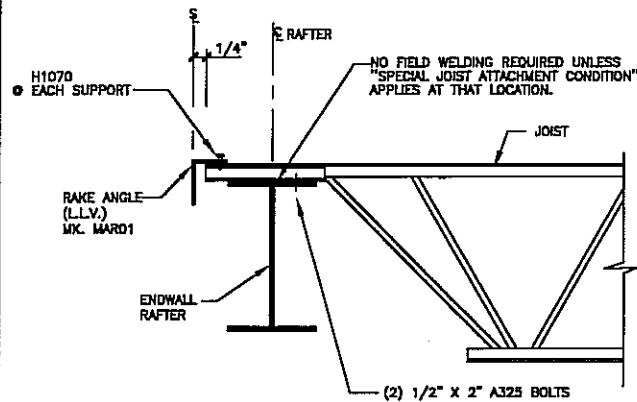
**NUCOR BUILDING SYSTEMS**  
 PO BOX 1006, 200 WHETSTONE RD.  
 SWANSEA, SC 29160  
 PHONE: (803) 568-2100  
 FAX: (803) 568-2121

PROJECT NAME: OLYMPIC STEEL  
 SUMTER, SC  
 CUSTOMER: THOMPSON TURNER CONSTRUCTION CO.  
 SUMTER, SC  
 JOB NUMBER: S08A0248A

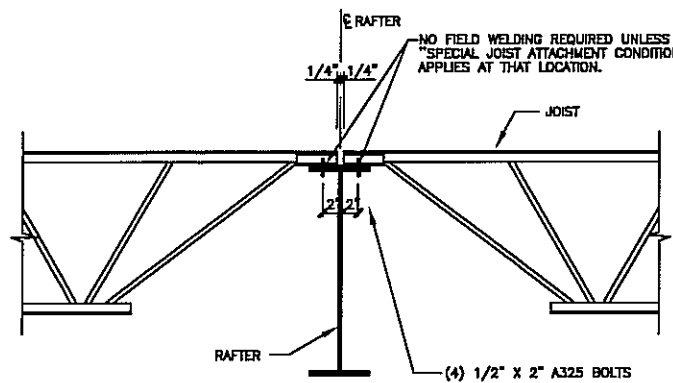
SHEET NO: E5 of 48

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 AUG 20 2008  
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END CONDITION FOR:  
BOLTED ROOF JOIST SYSTEM

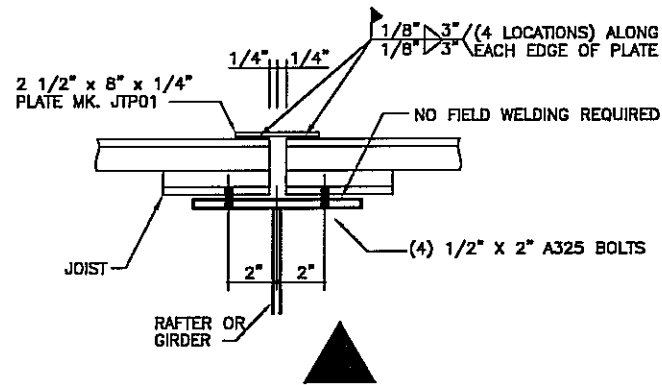


INTERIOR CONDITION FOR:  
BOLTED ROOF JOIST SYSTEM

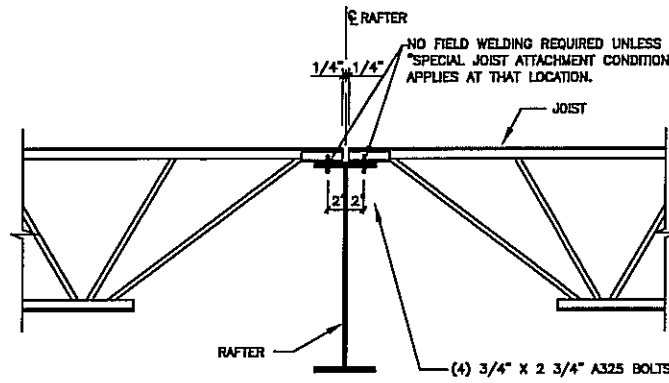
JOIST CONNECTION DETAIL 5

SHORTSPAN BOLTED ROOF JOIST SYSTEM  
REFERENCE ERECTOR NOTE FOR TYPICAL WASHER REQUIREMENTS

E5.5



END CONDITION FOR:  
BOLTED ROOF JOIST SYSTEM

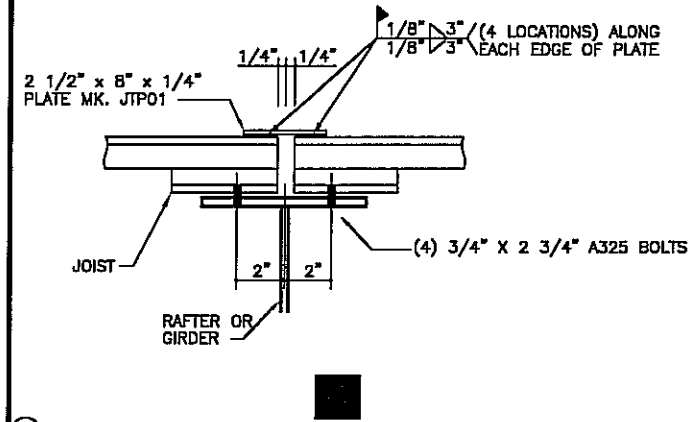


INTERIOR CONDITION FOR:  
BOLTED ROOF JOIST SYSTEM

JOIST CONNECTION DETAIL 7

LONGSPAN BOLTED ROOF JOIST SYSTEM  
REFERENCE ERECTOR NOTE FOR TYPICAL WASHER REQUIREMENTS

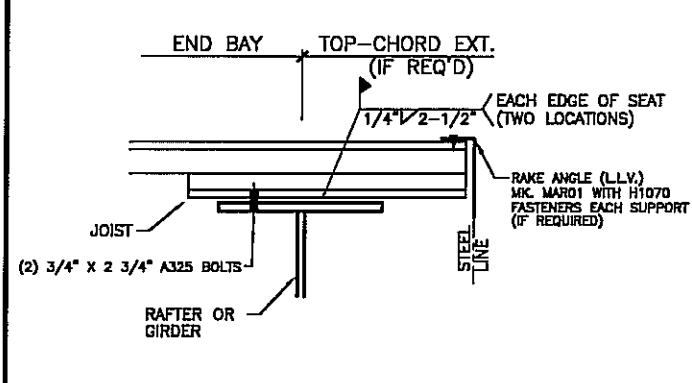
E5.5



SPCL JOIST ATTACHMENT CONDITION 4

LONGSPAN BOLTED ROOF JOIST SYSTEM  
REFERENCE ERECTOR NOTE FOR TYPICAL WASHER REQUIREMENTS

E5.5



FOR BOLTED ROOF JOIST SYSTEM.  
APPLIES ONLY TO LOCATIONS DESIGNATED  
ON ROOF FRAMING PLAN.

SPCL JOIST ATTACHMENT CONDITION 8

LONGSPAN BOLTED ROOF JOIST SYSTEM  
REFERENCE ERECTOR NOTE FOR TYPICAL WASHER REQUIREMENTS

E5.5

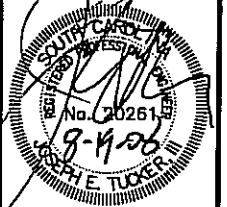
DATE	P.E.	ENG.	CHK.	OWN.	ISSUE
5/23/08	JET	JET	JET	JH/MS	PERMITS
5/23/08	JET	JET	JET	JH/MS	APPROVALS
5/23/08	JET	JET	JET	JH/MS	CRANE CONFIRMATIONS
8/20/08	JET	JET	JET	DB/MS/BJ/ML/JTA	FINAL ERECTION

**NUCOR BUILDING SYSTEMS**  
PO BOX 1006, 200 WHELISTONE RD.  
SWANSEA, SC 29160  
PHONE: (803) 568-2100  
FAX: (803) 568-2121

PROJECT NAME:  
OLYMPIC STEEL  
SUMTER, SC  
CUSTOMER:  
THOMPSON TURNER CONSTRUCTION CO.  
SUMTER, SC

JOB NUMBER:  
S08A0248A

SHEET NO:  
E5.5 of 48



FOR CONSTRUCTION  
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AUG 20 2008

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# RECOMMENDATIONS FOR HANDLING AND ERECTING NBS STEEL JOISTS

- 1) CHECK QUANTITIES, MARK NUMBER, AND CONDITION OF JOIST AND ACCESSORIES ON ARRIVAL. NOTE ON THE DELIVERY TICKETS ANY SHORTAGES OR DISCREPANCIES. NUCOR BUILDING SYSTEMS WILL NOT BE LIABLE FOR ANY SHORTAGES OR DAMAGE NOT NOTED.
- 2) WHEN UNLOADING BY CRANE, ALWAYS HOOK CHAINS OR SLINGS TO TOP OR BOTTOM CHORDS AT PANEL POINTS, PREFERABLY AT 1/3 POINTS. NEVER HOOK TO WEB MEMBERS OR JERK WHILE LIFTING. WHEN UNLOADING BY HAND, USE EXTREME CARE WHEN BREAKING BUNDLES AND UNLOAD EACH JOIST SEPARATELY.
- 3) STORE JOIST IN BUNDLES IN A VERTICAL POSITION ON WOOD BLOCKING PLACED AT PANEL POINTS. LIGHTER JOISTS SHOULD BE STACKED ON HEAVIER JOISTS IF MORE THAN ONE LAYER IS REQUIRED. STORE JOIST ON SIDES IF HEIGHT OF BUNDLE IS GREATER THAN TWICE ITS WIDTH. JOIST FROM BROKEN BUNDLES SHOULD BE LAID FLAT ON BLOCKING TO PREVENT SAGGING OF JOIST. COVER JOIST TO PROTECT PRIME COAT IF THEY ARE NOT ERECTED IMMEDIATELY.
- 4) ERECTION MUST BE DONE WITH PLANS NOTED "FOR CONSTRUCTION". REFERENCE ERECTION DRAWINGS FOR ORIENTATION OF TAGGED ENDS OF JOISTS.
- 5) NUCOR BUILDING SYSTEMS MUST BE NOTIFIED AT ONCE IF JOISTS AND/OR ACCESSORIES CANNOT BE ERECTED ACCORDING TO THE FINAL CONSTRUCTION PLANS. NUCOR BUILDING SYSTEMS WILL NOT BE RESPONSIBLE FOR ANY FIELD REPAIRS OR CHANGES MADE WITHOUT PRIOR CONSENT.
- 6) DO NOT COMPLETELY WELD JOIST TO BEARING SUPPORT UNTIL PROPERLY ALIGNED, AS SOON AS THE JOIST IS IN POSITION, ONE END OF THE JOIST SHALL BE ATTACHED TO ITS SUPPORT IN ACCORDANCE WITH THE NOTES BELOW BEFORE ALLOWING THE WEIGHT OF AN ERECTOR ON THE JOIST. ALIGN THE JOISTS WHILE INSTALLING THE BRIDGING. DO NOT ATTEMPT TO ALIGN OR STRAIGHTEN JOIST IN GROUPS AFTER INSTALLATION AND PERMANENT ATTACHMENT TO THE BEARING SUPPORTS HAS BEEN MADE.
  - 6a) JOISTS - ENDS OF JOISTS RESTING ON STEEL SUPPORTS SHALL BE CONNECTED THERETO WITH A MINIMUM OF THE EQUIVALENT OF: SHORTSPAN - TWO 1/8" FILLET WELDS, 1" LONG OR WITH 2 1/2" DIA. BOLTS; LONGSPAN - TWO 1/4" FILLET WELDS, 2" LONG OR WITH TWO 3/4" DIA. A325 BOLTS. WHEN BOLTED CONNECTIONS ARE USED, BOLTS MUST BE "SNUG TIGHTENED" PER THE LATEST AISC SPECIFICATION. THE NUCOR BUILDING SYSTEMS CONSTRUCTION DRAWINGS SHOULD BE REVIEWED TO DETERMINE WHETHER ADDITIONAL WELDING IS REQUIRED DUE TO SPECIAL CONDITIONS.
  - 6b) BOTH ENDS OF ALL STEEL JOISTS OR COLD-FORMED JOISTS SHALL BE FULLY BOLTED AND/OR WELDED TO THE SUPPORT STRUCTURE BEFORE:
    - a) RELEASING THE HOISTING CABLES;
    - b) ALLOWING AN EMPLOYEE ON THE JOISTS; OR
    - c) ALLOWING ANY CONSTRUCTION LOADS ON THE JOISTS.
- 7) THE ERECTION STABILITY AND HANDLING REQUIREMENTS FOR K-SERIES AND LH-SERIES STEEL JOISTS HAVE BEEN REVISED EFFECTIVE NOVEMBER 1, 1994. ALL BRIDGING BOLTS ARE TO BE INSTALLED "SNUG TIGHTENED" PER THE LATEST AISC SPECIFICATION.
- 8) NUCOR BUILDING SYSTEMS JOISTS ARE FABRICATED TO MEET THE ERECTION REQUIREMENTS OF THE OCCUPATIONAL SAFETY AND HEALTH ACT (OSHA). FIELD COMPLIANCE WITH THIS ACT IS NECESSARY. PER OSHA REQUIREMENTS, ALL JOISTS WITH A SPAN OF 40'-0" OR LONGER, AS WELL AS THE JOISTS LISTED IN THE CHART BELOW, ARE TO HAVE A ROW OF BOLTED DIAGONAL BRIDGING INSTALLED PRIOR TO SLACKENING THE HOISTING CABLES. ALL BRIDGING BOLTS ARE TO BE INSTALLED "SNUG TIGHTENED" PER THE LATEST AISC SPECIFICATION.
- 9) ALL HORIZONTAL BRIDGING IS SHIPPED IN 20'-0" LENGTHS. ALL HORIZONTAL BRIDGING SHALL HAVE A STANDARD 6" LAP. ALL DROPS MUST BE USED. BRIDGING SHALL BE CONNECTED TO THE JOIST CHORDS WITH A MINIMUM OF: SHORTSPAN - 1/8" FILLET WELD, 1/2" LONG OR EQUIVALENT; LONGSPAN - 1/8" FILLET WELD, 1" LONG OR EQUIVALENT.
- 10) DO NOT CUT AWAY ANY CHORDS OR WEBS.
- 11) JOIST CHORDS ARE NOT DESIGNED FOR CONCENTRATED LOADS. EITHER PLACE LOADS AT PANEL POINTS OR FIELD WELD AN EXTRA MEMBER FROM POINT OF LOAD TO NEAREST PANEL POINT ON OPPOSITE CHORD AT NO EXPENSE TO NUCOR BUILDING SYSTEMS. SEE SPECIFIC DETAILS ON THESE DRAWINGS.
- 12) CONTRACTOR SHALL PROVIDE MEANS FOR ADEQUATE DISTRIBUTION OF CONCENTRATED LOADS SO THAT THE CARRYING CAPACITY OF ANY JOIST IS NOT EXCEEDED. DO NOT APPLY ANY LOADS TO JOISTS UNTIL ALL BRIDGING IS COMPLETELY INSTALLED AND JOISTS ARE PERMANENTLY FASTENED INTO PLACE.
- 13) METAL DECK OR CENTERING MUST BE ATTACHED TO THE TOP CHORD OF THE JOIST AT MAXIMUM OF 36" TO PROVIDE THE REQUIRED PERMANENT LATERAL BRACING. FOLLOW THE MANUFACTURERS RECOMMENDATIONS FOR INSTALLATION OF DECK OR CENTERING. SEE THE DECK ATTACHMENT DETAIL.
- 14) FIELD WELDING SHALL NOT DAMAGE JOISTS.
- 15) ERECT BOTTOM CHORD BEARING JOIST WITH CAMBER UPWARD.
- 16) ONLY MATCHED HALVES OF BOLTED FIELD SPLICED JOISTS ARE TO BE BOLTED TOGETHER. REFERENCE INSTRUCTIONS PROVIDED ON NUCOR BUILDING SYSTEMS CONSTRUCTION DRAWINGS.
- 17) NO HOLES ARE PROVIDED IN THE JOISTS FOR THE ATTACHMENT OF OTHER TRADES AND ARE DESIGNED AS SUCH.
- 18) IT IS RECOMMENDED THAT CFR BUNDLES BE PLACED DIRECTLY ABOVE THE RIGID FRAMES AS STATED IN THE NBS CFR ERECTION MANUAL.

\*THESE ARE GENERAL NOTES ONLY. IF A DISCREPANCY EXISTS BETWEEN THE FINAL PLANS FOR FIELD USE AND THESE NOTES, THEN THE FINAL PLANS TAKE PRECEDENCE.

UNDER NO CIRCUMSTANCES ARE DECK BUNDLES OR CONSTRUCTION LOADS OF ANY DESCRIPTION TO BE PLACED ON UNBRIDGED JOISTS.

SHORT SPAN (K-series joists): (One row must be installed)		LONG SPAN (LH-series joists): (Two rows must be installed)	
8k thru 12k	23 feet	18LH thru 24LH	33 feet
14k thru 18k	27 feet	28LH and up	40 feet
16k thru 20k	31 feet		
22k thru 24k	34 feet		
26k	38 feet		
28k and up	40 feet		

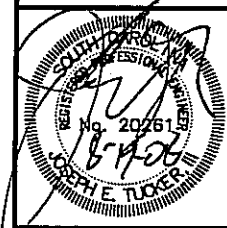
ISSUE	DATE	P.E.	ENG	CHK	DWN
PERMITS	5/23/08	JET	JET		
APPROVALS	5/23/08	JET	JET		
CRANE CONFIRMATIONS	5/23/08	JET	JET		
FINAL ERECTION	8/20/08				

**NUCOR BUILDING SYSTEMS**  
 PO BOX 1006, 200 WHEATSTONE RD.  
 SWANSEA, SC 29160  
 PHONE: (803) 568-2100  
 FAX: (803) 568-2121

PROJECT NAME: OLYMPIC STEEL  
 SUMTER, SC  
 CUSTOMER: THOMPSON TURNER CONSTRUCTION CO.  
 SUMTER, SC

JOB NUMBER: 508A0248A

SHEET NO: E5.7 of 48

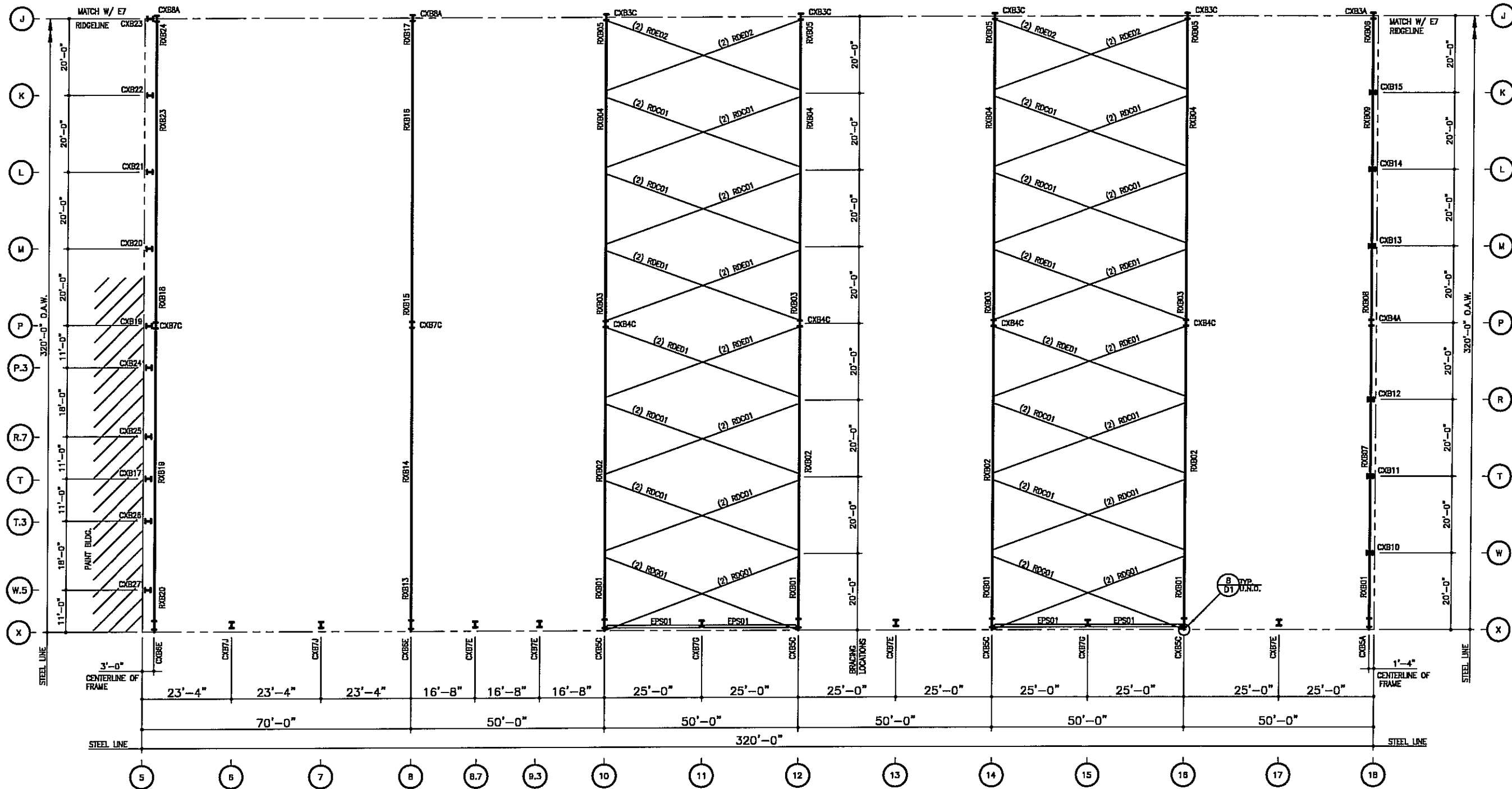


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AUG 20 2008

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**MAIN BLDG.  
MARK NUMBER AND BRACING PLAN**

- 1) PLACE TAGGED END OF RAFTERS TOWARD THE LOW EAVE.
- 2) ROD-BRACING: SEE SHEET 03 FOR DETAIL.  
 RDC — INDICATES 3/4" # ROD  
 RDE — INDICATES 1" # ROD  
 RDG — INDICATES 1 1/4" # ROD
- 3) EPS — INDICATES (P8.14B) MATERIAL PIPE STRUT.

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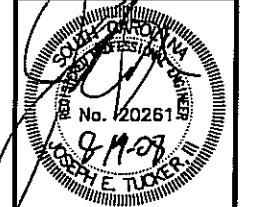
ISSUE	DATE
PERMITS	5/23/08
APPROVALS	5/23/08
CRANE CONFIRMATIONS	5/23/08
FINAL ERECTION	8/20/08

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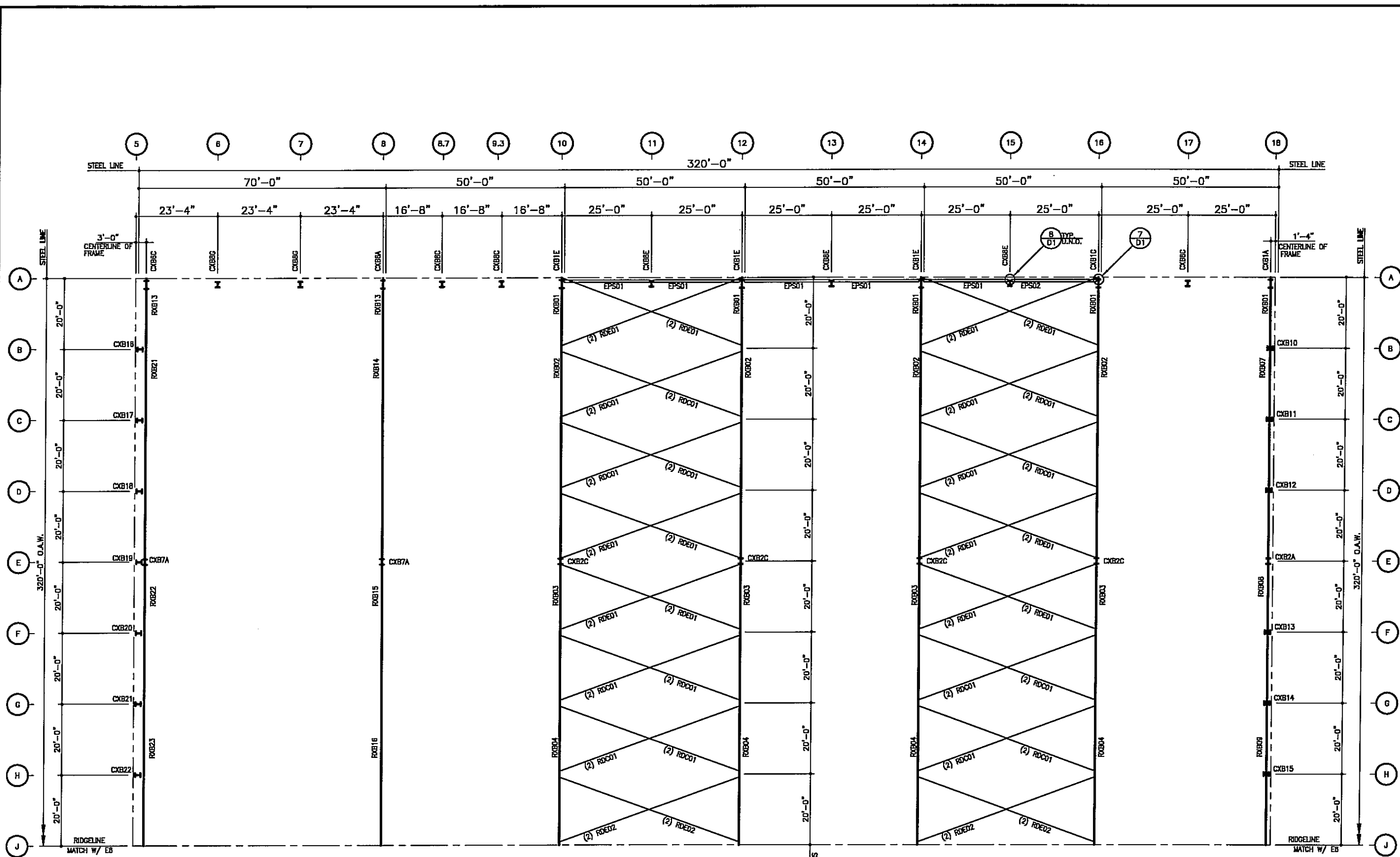
PROJECT NAME:  
**OLYMPIC STEEL**  
 SUMTER, SC  
 CUSTOMER:  
**THOMPSON TURNER CONSTRUCTION CO.**  
 SUMTER, SC

JOB NUMBER:  
**S08A0248A**

SHEET NO:  
**E6 of 48**



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**MAIN BLDG.  
MARK NUMBER AND BRACING PLAN**

- 1) PLACE TAGGED END OF RAFTERS TOWARD THE LOW EAVE.
- 2) ROD-BRACING: SEE SHEET D3 FOR DETAIL  
 RDC\_\_\_ - INDICATES 3/4" # ROD  
 RDE\_\_\_ - INDICATES 1" # ROD  
 RDC\_\_\_ - INDICATES 1 1/4" # ROD
- 5) EPS\_\_\_ INDICATES (PB.148) MATERIAL PIPE STRUT.

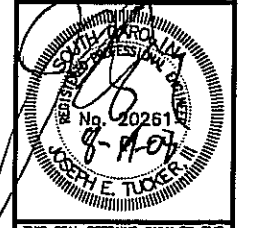
ISSUE	DATE	ENG	P.E.
PERMITS	5/23/08	JH/MS	JET
APPROVALS	5/23/08	JH/MS	JET
CRANE CONFIGURATIONS	5/23/08	JH/MS	JET
FINAL ERECTION	8/20/08	DB/MS/LE/AL	JVA

**NUCOR BUILDING SYSTEMS**  
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 SWANSEA, SC 29160  
 PHONE: (803) 568-2100  
 FAX: (803) 568-2121

PROJECT NAME: OLYMPIC STEEL  
 SUMTER, SC  
 CUSTOMER: THOMPSON TURNER CONSTRUCTION CO.  
 SUMTER, SC

JOB NUMBER: SOB0248A

SHEET NO: E7 of 48

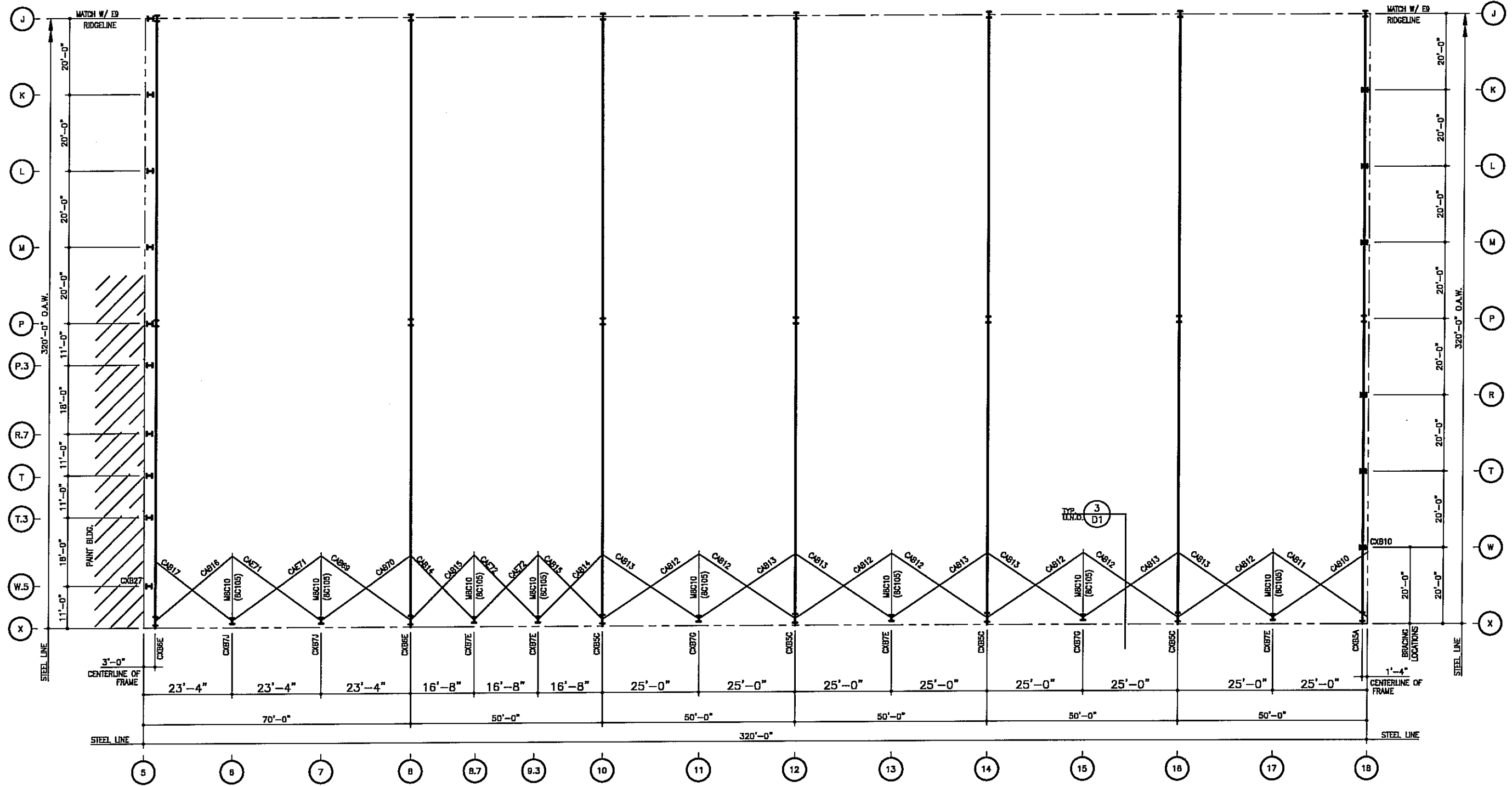


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**MAIN BLDG.  
SIDEWALL WIND COLUMN PLAN**

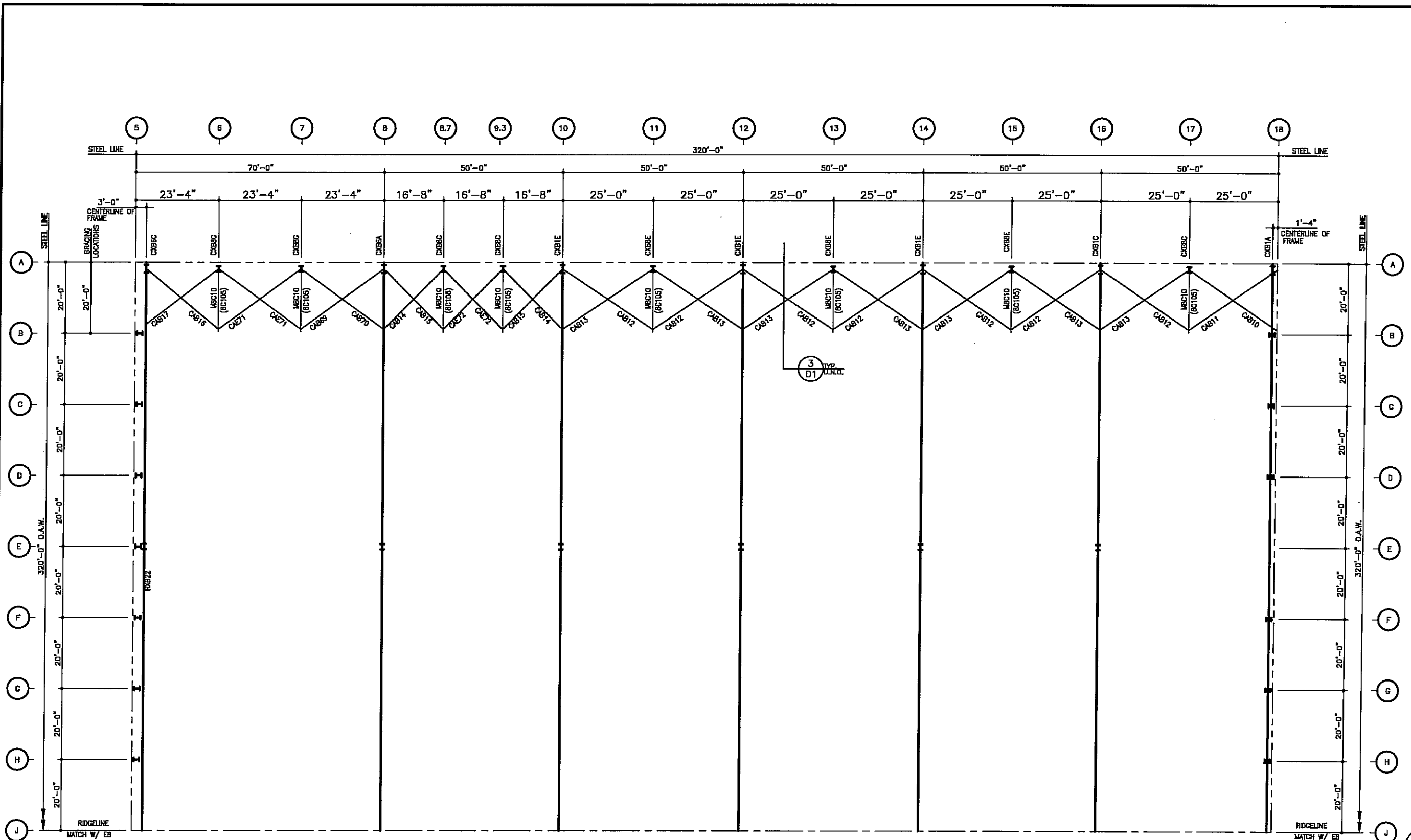
- 1) PLACE TAGGED END OF RAFTERS TOWARD THE LOW EAVE.
- 2) CABLE-BRACING: SEE SHEET D1 FOR DETAIL  
CAB \_\_\_ INDICATES 3/8" # CABLE

FOR CONSTRUCTION  
(THIS IS NOT AN APPROVAL SET.)

AUG 20 2008

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<b>NUCOR</b> <b>BUILDING SYSTEMS</b> PO BOX 1006, 200 WHETSTONE RD. SWANSEA, SC 29160 PHONE: (803) 568-2100 FAX: (803) 568-2121	DATE	5/23/08
	P.E.	JET
	ENG.	JET
	DRAWN BY	JH/MS
<b>OLYMPIC STEEL</b> SUMTER, SC CUSTOMER: <b>THOMPSON TURNER CONSTRUCTION CO.</b> SUMTER, SC	ISSUE	
	PERMITS	
	APPROVALS	
	CRANE CONFIRMATIONS	
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	DATE	8/20/08
	P.E.	JET
	ENG.	JET



ISSUE	DATE	ENG	CHK	DWN
PERMITS	5/23/08	JET	JET	JET
APPROVALS	5/23/08	JET	JET	JET
CRANE CONTRIBUTIONS	5/23/08	JET	JET	JET
FINAL ERECTION	8/20/08	JET	JET	JET

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 SWANSEA, SC 29160  
 PHONE: (803) 568-2100  
 FAX: (803) 568-2121

PROJECT NAME: OLYMPIC STEEL  
 SUMTER, SC  
 CUSTOMER: THOMPSON TURNER CONSTRUCTION CO.  
 SUMTER, SC

JOB NUMBER: S08A0248A

SHEET NO: E9 of 48

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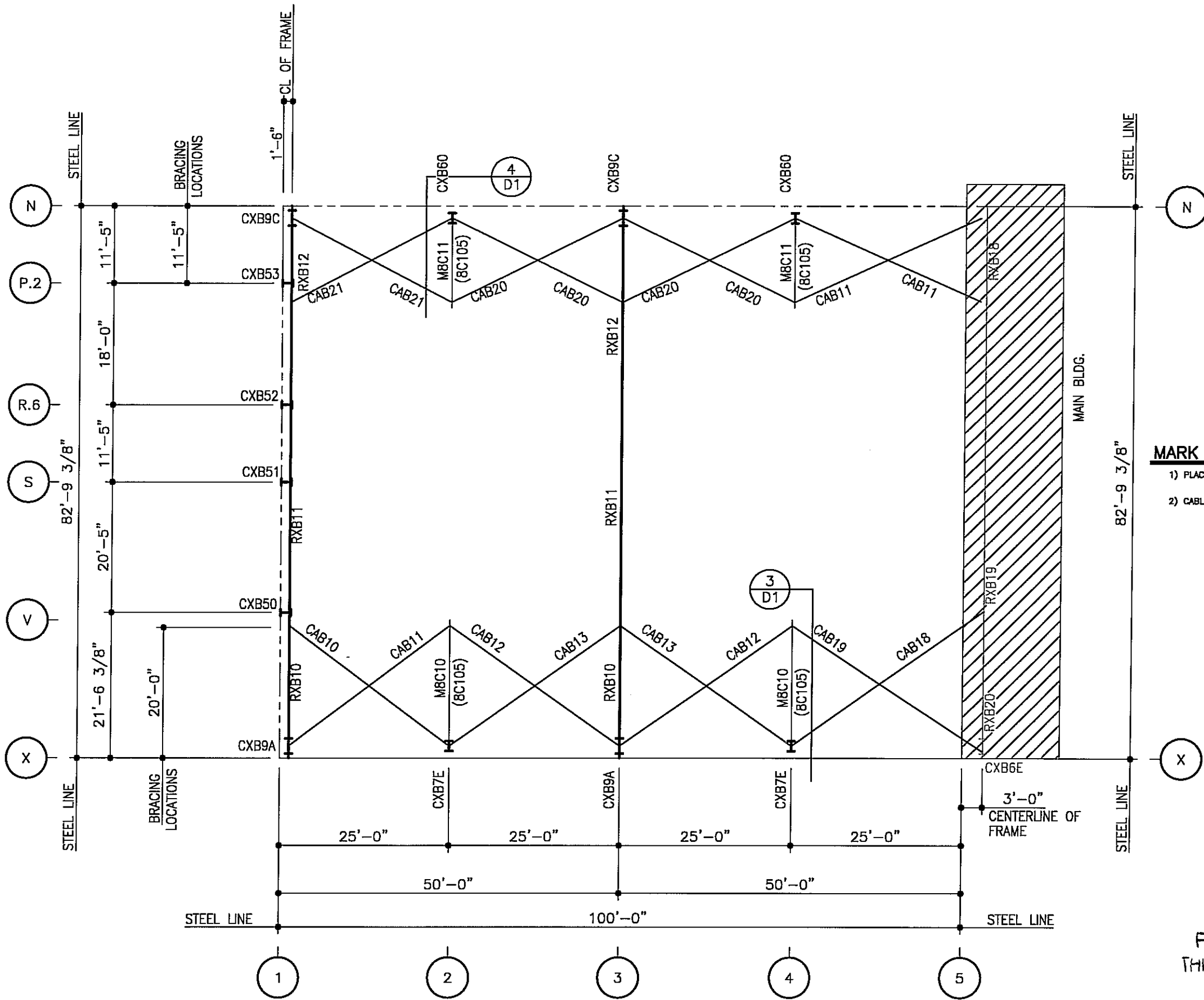
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**MAIN BLDG.  
 SIDEWALL WIND COLUMN PLAN**

- 1) PLACE TAGGED END OF RAFTERS TOWARD THE LOW EAVE.
- 3) CABLE-BRACING: SEE SHEET D1 FOR DETAIL  
 CAB -- INDICATES 3/8" # CABLE





**PAINT BLDG.  
MARK NUMBER AND BRACING PLAN**

- 1) PLACE TAGGED END OF RAFTERS TOWARD THE LOW EAVE.
- 2) CABLE-BRACING: SEE SHEET D1 FOR DETAIL  
CAB\_\_ - INDICATES 3/8" # CABLE

FOR CONSTRUCTION  
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AUG 20 2008  
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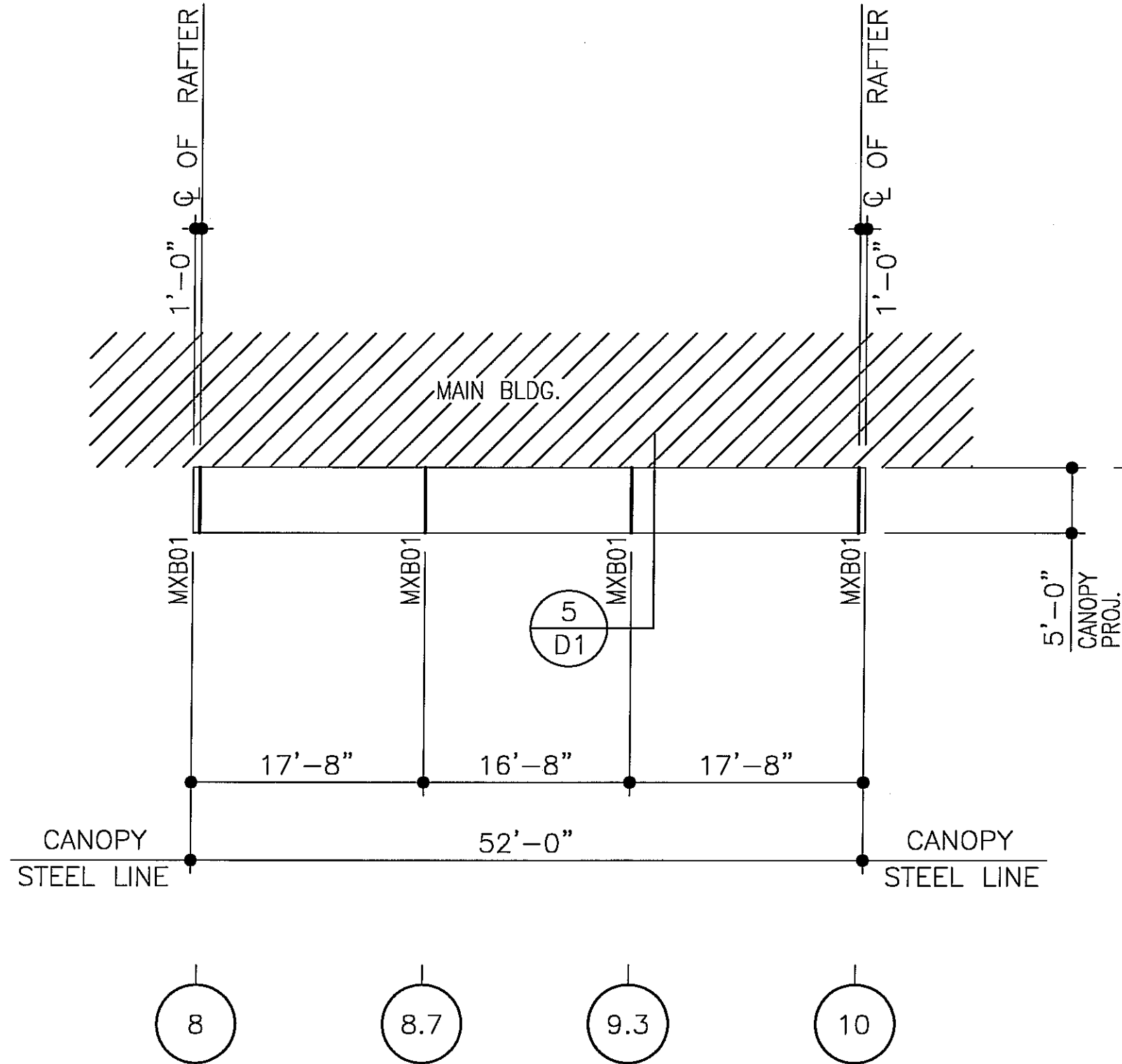
ISSUE	PERMITS	APPROVALS	CRANE CONFIRMATIONS	FINAL ERECTION	DRAWN	CHECK	ENG	P.E.	DATE
					JH/MS	NDD	JET	JET	5/23/08
					JH/MS	NDD	JET	JET	5/23/08
					JH/MS	NDD	JET	JET	5/23/08
					DB/MSLB/NL	JET	JET	JET	6/20/08

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SWANSEA, SC 29160  
PHONE: (803) 568-2100  
FAX: (803) 568-2121

PROJECT NAME: OLYMPIC STEEL  
JOB NUMBER: S08A0248A  
SHEET NO: E10 of 48  
CUSTOMER: THOMPSON TURNER CONSTRUCTION CO.  
SUMTER, SC

REGISTERED PROFESSIONAL ENGINEER  
No. 20264  
8-29-08  
JOSEPH E. TUDOR

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**MARK NUMBER AND BRACING PLAN**

NOTE: CANOPY RAFTER ATTACHMENT TO WALL IS NOT BY NUCOR. SEE 7/D13.5 FOR RAFTER ENDPLATE AND LOADING DETAIL.

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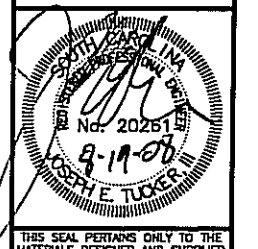
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PERMITS	JH/MS	NDD	JET	JET	5/23/08
APPROVALS	JH/MS	NDD	JET	JET	5/23/08
CRANE CONFIRMATIONS	JH/MS	NDD	JET	JET	5/23/08
FINAL ERECTION	DB/MSL/NL	JET	JET	JET	8/20/08

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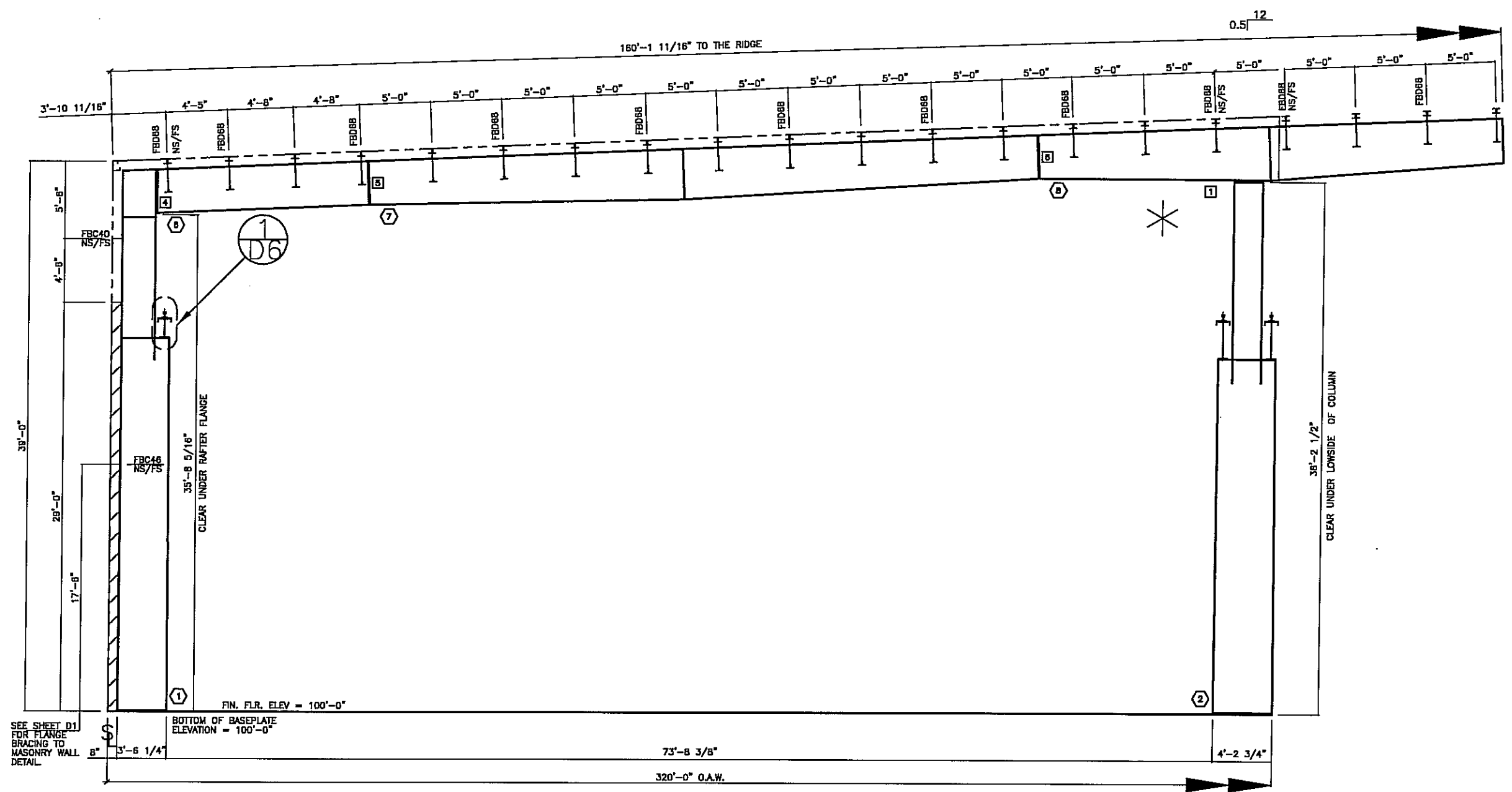
PROJECT NAME: OLYMPIC STEEL  
SUMTER, SC  
CUSTOMER: THOMPSON TURNER CONSTRUCTION CO.  
SUMTER, SC

JOB NUMBER: SOBA0248A

SHEET NO: E11 of 48



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SEE SHEET D1 FOR FLANGE BRACING TO MASONRY WALL DETAIL

BOTTOM OF BASEPLATE ELEVATION = 100'-0"

FIN. FLR. ELEV = 100'-0"

**CROSS SECTION @ LINES 10-18** FOR CONSTRUCTION THIS IS NOT AN APPROVAL SET.

AUG 20 2008  
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MBR ID	LOW PLATE		HIGH PLATE		OUTSIDE FLANGE		INSIDE FLANGE		MEMBER WEB					
	WIDTH	THICK	WIDTH	THICK	WIDTH	THICK	WIDTH	THICK	DEPTH1	THICK	LENGTH	DEPTH2		
1	12.00	1.00	12.00	0.63	12.00	0.50	458.94	12.00	0.50	421.94	41.25	0.25	286.53	41.25
											41.25	0.25	30.00	28.75
											28.75	0.22	102.61	28.75
											28.75	0.31	39.50	28.75
2	12.00	1.25	12.00	1.25	12.00	0.75	304.06	12.00	0.75	312.94	49.25	0.25	274.06	49.25
							147.44	12.00	0.50	149.44	49.25	0.25	30.00	24.50
											24.50	0.19	147.44	24.50
6	8.00	0.75	8.00	0.38	8.00	0.38	178.63	8.00	0.38	180.19	37.00	0.25	178.63	37.00
7	8.00	0.38	8.00	0.38	8.00	0.38	563.25	8.00	0.25	563.38	37.00	0.25	284.00	43.00
											43.00	0.28	299.25	37.00
8	8.00	0.50	8.00	0.50	8.00	0.38	395.00	8.00	0.50	395.31	37.00	0.38	185.56	45.88
											45.88	0.38	189.44	38.00

**NOTES:**

- FOR COLUMN AND RAFTER MARK NUMBERS, SEE SHEETS E7-EB (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.

CON ID	BOLT QTY	BOLT DESCRIPTION	BOLT PART#	NUT PART#
1	8	BOLT/NUT 5/8" x 2 1/4" A325	HO810	HO310
4	8	BOLT/NUT 1" x 3 1/4" A325	HO840	HO330
5	8	BOLT/NUT 5/8" x 2 1/4" A325	HO810	HO310
6	8	BOLT/NUT 5/8" x 2 1/4" A325	HO810	HO310

DATE	5/23/08
P.E.	JET
ENG.	JET
CHK.	JET
DWN.	JH/MS
ISSUE	PERMITS
	APPROVALS
	CRANE CONFIRMATIONS
	FINAL ERECTION
DATE	5/23/08
P.E.	JET
ENG.	JET
CHK.	JET
DWN.	JH/MS
ISSUE	PERMITS
	APPROVALS
	CRANE CONFIRMATIONS
	FINAL ERECTION
DATE	5/23/08
P.E.	JET
ENG.	JET
CHK.	JET
DWN.	JH/MS
ISSUE	PERMITS
	APPROVALS
	CRANE CONFIRMATIONS
	FINAL ERECTION
DATE	8/20/08
P.E.	JET
ENG.	JET
CHK.	JET
DWN.	JH/MS
ISSUE	PERMITS
	APPROVALS
	CRANE CONFIRMATIONS
	FINAL ERECTION

**NUCOR BUILDING SYSTEMS**  
PO BOX 1006, 200 WHESTONE RD.  
SWANSEA, SC 29160  
PHONE: (803) 568-2100  
FAX: (803) 568-2121

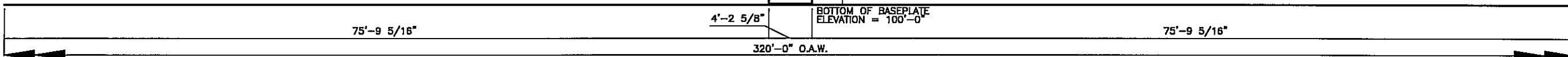
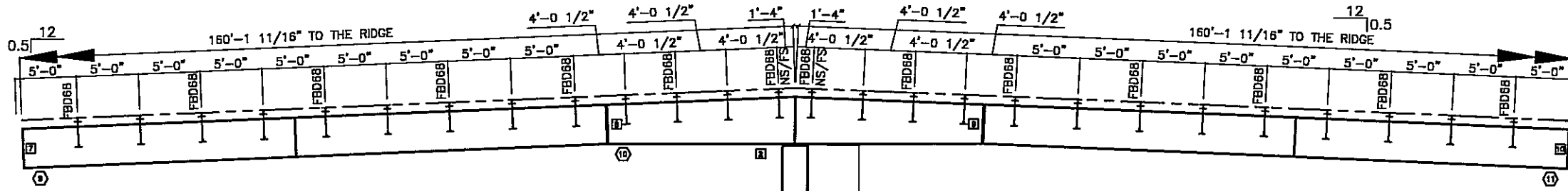
PROJECT NAME: OLYMPIC STEEL  
SUMMER, SC  
CUSTOMER: THOMPSON TURNER CONSTRUCTION CO.  
SUMMER, SC

JOB NUMBER: S08A0248A

SHEET NO: E12 of 48

Professional Engineer Seal: No. 20261, JEFFREY E. TUCKER

THIS SEAL PERTAINS ONLY TO THE MATERIALS DESIGNED AND SUPPLIED BY NUCOR BUILDING SYSTEMS, A DIVISION OF NUCOR CORPORATION. THE DRAWINGS AND THE METAL BUILDING WHICH THEY REPRESENT ARE THE PRODUCT OF NUCOR BUILDING SYSTEMS. THE REGISTERED PROFESSIONAL ENGINEER WHOSE SEAL APPEARS ON THESE DRAWINGS IS EMPLOYED BY NUCOR BUILDING SYSTEMS AND DOES NOT SERVE AS OR REPRESENT THE PROJECT ENGINEER OF RECORD AND SHALL NOT BE CONSTRUED AS SUCH.



**CROSS SECTION @ LINES 10-18**

FOR CONSTRUCTION  
THIS IS NOT AN APPROVAL SET.

AUG 20 2008

YOUR BUILDING IS BEING FABRICATED.  
NO CHANGES CAN BE MADE

MEMBER ID	LOW PLATE		HIGH PLATE		OUTSIDE FLANGE		INSIDE FLANGE		MEMBER WEB						
	WIDTH	THICK	WIDTH	THICK	WIDTH	THICK	WIDTH	THICK	DEPTH1	THICK	LENGTH	DEPTH2			
9	8.00	0.38	8.00	0.50	8.00	0.31	563.13	8.00	0.25	563.13	38.00	0.28	284.00	38.00	
											38.00	0.31	289.13	38.00	
10	8.00	0.50	8.00	0.50	8.00	0.50	355.83	8.00	0.31	359.00	38.00	0.38	177.81	45.44	
											45.44	0.38	177.81	38.00	
11	8.00	0.38	8.00	0.50	8.00	0.31	563.13	8.00	0.25	563.13	38.00	0.28	284.00	38.00	
											38.00	0.31	289.13	38.00	
3	12.00	1.25	12.00	1.25	12.00	0.83	304.08	12.00	0.83	313.89	48.38	0.25	274.08	48.38	
						12.00	1.00	187.00	12.00	1.00	188.75	48.38	0.25	30.00	23.50
											23.50	0.25	187.00	23.50	

**NOTES:**

- FOR COLUMN AND RAFTER MARK NUMBERS, SEE SHEETS E7-EB (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#	
2	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	8	BOLT/NUT 5/8" x 2 1/4" A325	H0610	H0310	
9	8	BOLT/NUT 5/8" x 2 1/4" A325	H0610	H0310	
10	8	BOLT/NUT 5/8" x 2 1/4" A325	H0610	H0310	

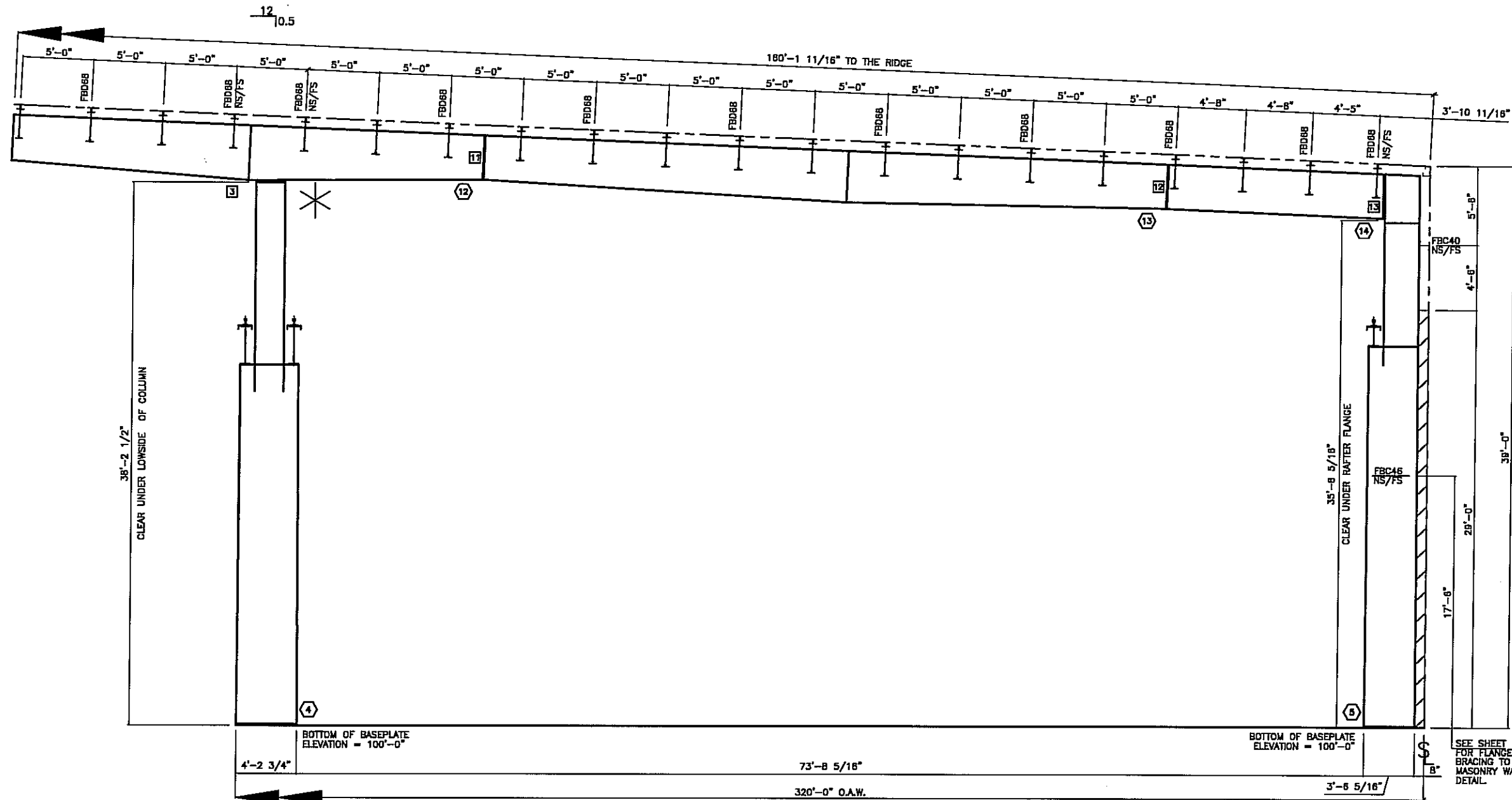
THIS SEAL PERTAINS ONLY TO THE MATERIALS DESIGNED AND SUPPLIED BY NUCOR BUILDING SYSTEMS, A DIVISION OF NUCOR CORPORATION. THE DRAWINGS AND THE METAL BUILDING WHICH THEY REPRESENT ARE THE PRODUCT OF NUCOR BUILDING SYSTEMS. THE REGISTERED PROFESSIONAL ENGINEER WHOSE SEAL APPEARS ON THESE DRAWINGS IS EMPLOYED BY NUCOR BUILDING SYSTEMS AND DOES NOT SERVE AS OR REPRESENT THE PROJECT ENGINEER OF RECORD AND SHALL NOT BE CONSIDERED AS SUCH.

**NUCOR BUILDING SYSTEMS**  
PO BOX 1006, 200 WHELSTONE RD.  
SWANSEA, SC 29160  
PHONE: (803) 568-2100  
FAX: (803) 568-2121

PROJECT NAME: OLYMPIC STEEL  
SUMMER, SC  
CUSTOMER: THOMPSON TURNER CONSTRUCTION CO.  
SUMMER, SC

JOB NUMBER: SO8A0248A  
SHEET NO: E13 of 48

ISSUE	DATE	ENG	P.L.E.
PERMITS	5/23/08	JET	JET
APPROVALS	5/23/08	JET	JET
CRANE CONFORMATIONS	5/23/08	JET	JET
FINAL ERECTION	8/20/08	JET	JET



**CROSS SECTION @ LINES 10-18**

FOR CONSTRUCTION SET.  
AUG 20 2008

YOUR BUILDING IS BEING FABRICATED.  
NO CHANGES CAN BE MADE.

MBR ID	LOW PLATE		HIGH PLATE		OUTSIDE FLANGE		INSIDE FLANGE		MEMBER WEB					
	WIDTH	THICK	WIDTH	THICK	WIDTH	THICK	WIDTH	THICK	LENGTH	DEPTH1	THICK	LENGTH	DEPTH2	
12	8.00	0.50	8.00	0.50	8.00	0.38	395.00	8.00	0.50	395.31	37.00	0.38	195.58	45.88
13	8.00	0.38	8.00	0.38	8.00	0.38	583.25	8.00	0.25	583.38	37.00	0.25	284.00	43.00
14	8.00	0.75	8.00	0.38	8.00	0.38	178.63	8.00	0.38	180.19	37.00	0.31	178.63	37.00
4	12.00	1.25	12.00	1.25	12.00	0.75	304.08	12.00	0.75	312.94	49.25	0.25	274.08	49.25
					12.00	0.50	147.44	12.00	0.50	149.44	49.25	0.25	30.00	24.50
5	12.00	1.00	12.00	0.83	12.00	0.50	459.00	12.00	0.83	319.63	41.19	0.25	287.13	41.19
					12.00	0.50	102.38	12.00	0.50	102.38	41.19	0.25	30.00	28.75
														28.75
														39.50
														28.75

**NOTES:**

- FOR COLUMN AND RAFTER MARK NUMBERS, SEE SHEETS E7-EB (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.
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- "\*" 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.
- 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#
3	B	BOLT/NUT 5/8" x 2 1/4" A325	H0610	H0310
11	B	BOLT/NUT 5/8" x 2 1/4" A325	H0610	H0310
12	B	BOLT/NUT 5/8" x 2 1/4" A325	H0610	H0310
13	B	BOLT/NUT 1" x 3 1/4" A325	H0640	H0330

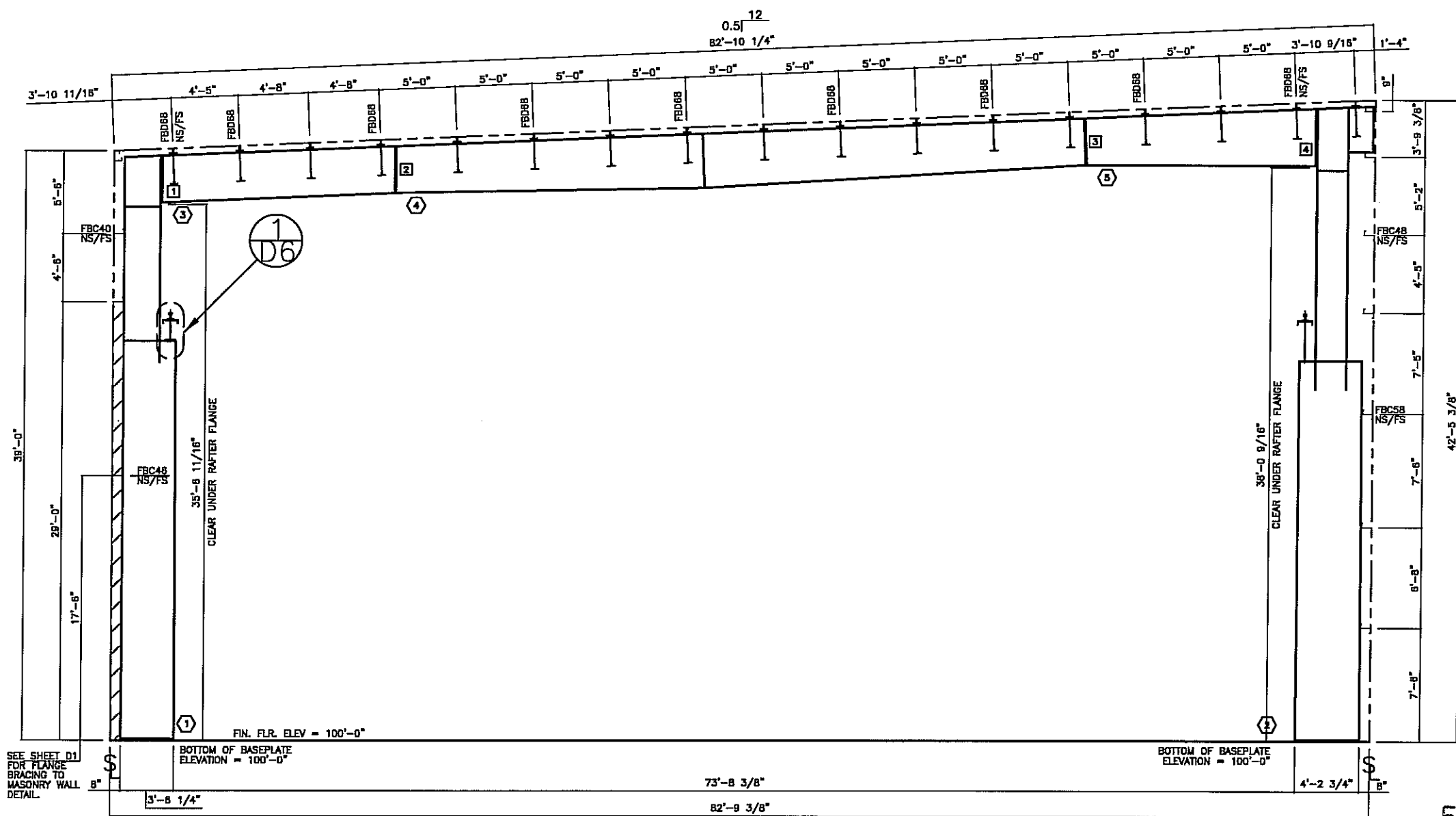
ISSUE	CHK	ENG	P.L.E.	DATE
PERMITS	JH/MS	NDD	JET	5/23/08
APPROVALS	JH/MS	NDD	JET	5/23/08
CRANE CONFIRMATIONS	JH/MS	NDD	JET	5/23/08
FINAL ERECTION	DB/MS/BJ/AL	JT		8/20/08

**NUCOR BUILDING SYSTEMS**  
PO BOX 1006, 200 WHELTSTONE RD.  
SWANSEA, SC 29160  
PHONE: (803) 568-2100  
FAX: (803) 568-2121

PROJECT NAME: OLYMPIC STEEL  
SUMTER, SC  
CUSTOMER: THOMPSON TURNER CONSTRUCTION CO.  
SUMTER, SC

JOB NUMBER: S08A0248A

SHEET NO: E14 of 48



**CROSS SECTION @ LINES 1&3**

FOR CONSTRUCTION  
THIS IS NOT AN APPROVAL  
AUG 20 2008  
YOUR BUILDING IS BEING FABRICATED  
NO CHANGES CAN BE MADE

MBR ID	LOW PLATE		HIGH PLATE		OUTSIDE FLANGE		INSIDE FLANGE		MEMBER WEB								
	WIDTH	THICK	WIDTH	THICK	WIDTH	THICK	WIDTH	THICK	LENGTH	DEPTH1	THICK	LENGTH	DEPTH2				
1	12.00	1.25	12.00	0.63	12.00	0.50	461.69	12.00	0.50	424.69	41.25	0.25	286.63	41.25			
2	12.00	1.25	12.00	0.63	12.00	0.75	304.06	12.00	0.75	312.94	49.25	0.25	274.06	49.25			
					12.00	0.50	197.81	12.00	0.50	148.00	49.25	0.25	30.00	24.50	0.25	148.00	24.50
					8.00	0.38	184.69	8.00	0.38	184.69	37.00	0.28	184.69	37.00	0.28	184.69	37.00
					8.00	0.38	539.19	8.00	0.25	540.68	43.00	0.28	399.19	37.00	0.28	399.19	37.00
3	8.00	0.75	8.00	0.38	8.00	0.38	184.69	8.00	0.38	184.69	37.00	0.28	184.69	37.00			
4	8.00	0.38	8.00	0.38	8.00	0.38	539.19	8.00	0.25	540.68	43.00	0.28	399.19	37.00			
5	8.00	0.50	8.00	0.63	8.00	0.38	183.19	8.00	0.50	181.44	37.00	0.38	183.19	45.00			

**NOTES:**

- FOR COLUMN AND RAFTER MARK NUMBERS, SEE SHEET E10 (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.
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- "\*" 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	8	BOLT/NUT 1" x 3 1/4" A325	H0840	H0330
2	8	BOLT/NUT 5/8" x 2 1/4" A325	H0810	H0310
3	8	BOLT/NUT 5/8" x 2 1/4" A325	H0810	H0310
4	8	BOLT/NUT 1 1/4" x 3 1/2" A325	H0860	H0340

**NUCOR BUILDING SYSTEMS**  
 PO BOX 1006, 200 WHELISTONE RD.  
 SWANSEA, SC 29160  
 PHONE: (803) 568-2100  
 FAX: (803) 568-2121

PROJECT: OLYMPIC STEEL  
 SUMTER, SC  
 CUSTOMER: THOMPSON TURNER CONSTRUCTION CO.  
 SUMTER, SC

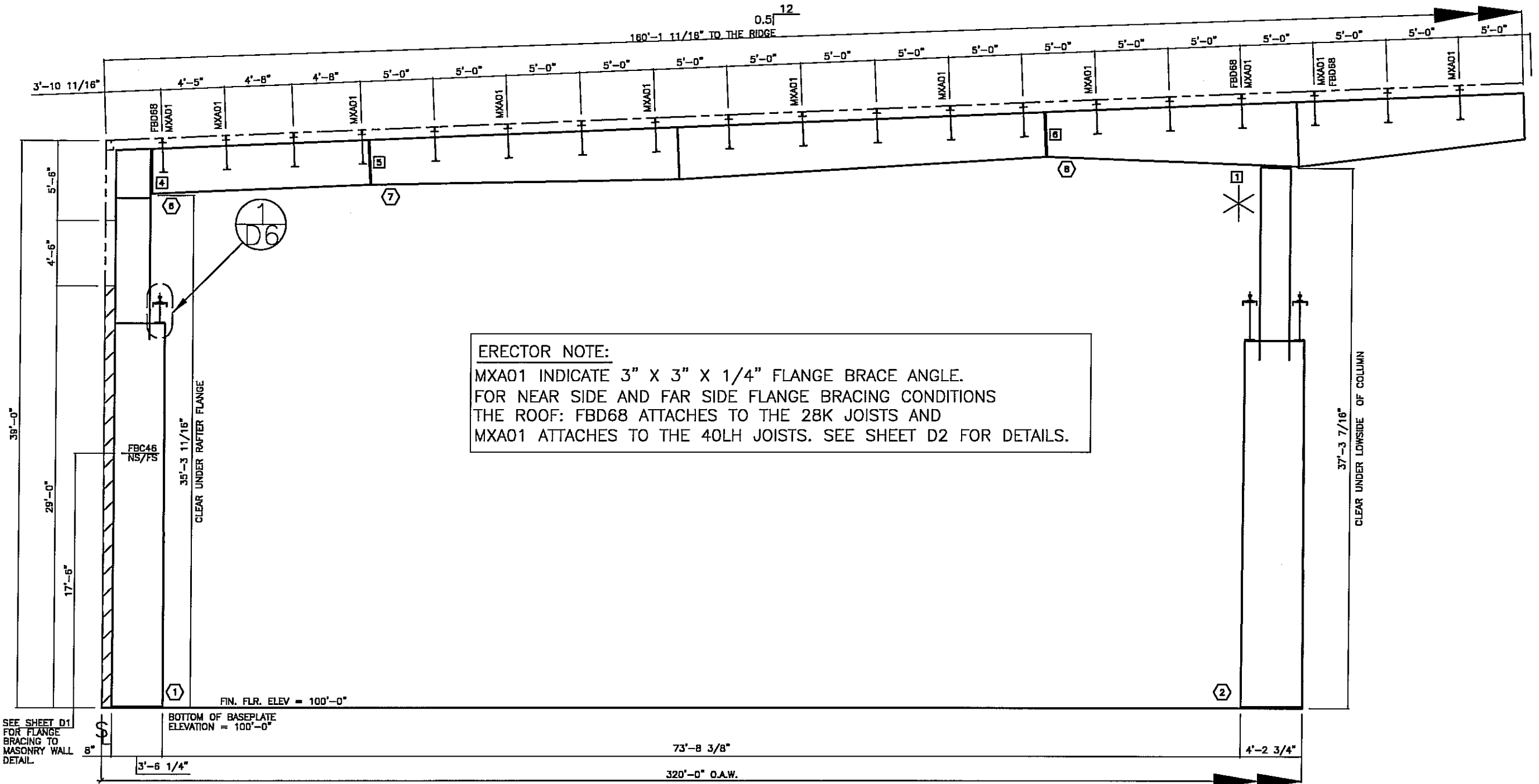
NO. NUMBER: 508A0248A  
 SHEET NO: E15 of 48

DATE: 5/23/08  
 P.E.: JET  
 ENG.: JET  
 CHK.: JET  
 DWN.: JET

ISSUE: PERMITS, APPROVALS, CRANE CONFIRMATIONS, FINAL ERECTION

8-17-08  
 W. E. TUCKER

THIS SEAL PERTAINS ONLY TO THE MATERIALS DESIGNED AND SUPPLIED BY NUCOR BUILDING SYSTEMS, A DIVISION OF NUCOR CORPORATION. THE DRAWINGS AND THE METAL BUILDING WHICH THEY REPRESENT ARE THE PRODUCT OF NUCOR BUILDING SYSTEMS. THE REGISTERED PROFESSIONAL ENGINEER WHOSE SEAL APPEARS ON THESE DRAWINGS IS EMPLOYED BY NUCOR BUILDING SYSTEMS AND DOES NOT SERVE AS OR REPRESENT THE PROJECT ENGINEER OF RECORD AND SHALL NOT BE CONSIDERED AS SUCH.



**ERECTOR NOTE:**  
 MXA01 INDICATE 3" X 3" X 1/4" FLANGE BRACE ANGLE.  
 FOR NEAR SIDE AND FAR SIDE FLANGE BRACING CONDITIONS  
 THE ROOF: FBD68 ATTACHES TO THE 28K JOISTS AND  
 MXA01 ATTACHES TO THE 40LH JOISTS. SEE SHEET D2 FOR DETAILS.

**CROSS SECTION @ LINES 5 & 8**

**FOR CONSTRUCTION  
 THIS IS NOT AN APPROVAL SET.**

**AUG 20 2008**

**YOUR BUILDING IS BEING FABRICATED.  
 NO CHANGES CAN BE MADE.**

MBR ID	LOW PLATE		HIGH PLATE		OUTSIDE FLANGE		INSIDE FLANGE		MEMBER WEB					
	WIDTH	THICK	WIDTH	THICK	WIDTH	THICK	WIDTH	THICK	DEPTH1	THICK	LENGTH	DEPTH2		
1	12.00	1.00	12.00	0.63	12.00	0.50	459.00	12.00	0.50	321.88	41.25	0.25	289.31	41.25
					12.00	0.50	144.19	12.00	0.50	144.19	41.25	0.25	30.00	28.63
					12.00	0.75	301.88	12.00	0.75	310.63	28.63	0.22	100.19	28.63
					12.00	0.50	143.00	12.00	0.50	144.19	28.63	0.28	39.50	28.63
2	12.00	1.00	12.00	0.50	12.00	0.75	301.88	12.00	0.75	310.63	49.25	0.25	271.88	49.25
					12.00	0.50	143.00	12.00	0.50	144.19	49.25	0.25	30.00	24.50
					12.00	0.75	301.88	12.00	0.75	310.63	24.50	0.18	143.00	24.50
3	8.00	0.75	8.00	0.38	8.00	0.38	178.75	8.00	0.38	180.31	37.00	0.31	178.75	37.00
					8.00	0.50	551.13	8.00	0.25	252.08	37.00	0.25	252.08	43.00
					8.00	0.38	178.75	8.00	0.31	299.19	43.00	0.28	289.13	37.00
4	8.00	0.50	8.00	0.50	8.00	0.38	384.94	8.00	0.50	398.25	37.00	0.38	267.25	53.50
					8.00	0.38	178.75	8.00	0.38	180.31	53.50	0.38	187.89	38.00

**NOTES:**

- FOR COLUMN AND RAFTER MARK NUMBERS, SEE SHEETS E7-E8 (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	8	BOLT/NUT 1" x 3 1/4" A325	H0840	H0330
4	8	BOLT/NUT 1" x 3 1/4" A325	H0840	H0330
5	8	BOLT/NUT 5/8" x 2 1/4" A325	H0610	H0310
6	8	BOLT/NUT 3/4" x 2 3/4" A325	H0830	H0320

**NUCOR BUILDING SYSTEMS**  
 PO BOX 1006, 200 WHETSTONE RD.  
 SWANSEA, SC 29160  
 PHONE: (803) 568-2100  
 FAX: (803) 568-2121

PROJECT NAME: OLYMPIC STEEL  
 SUMTER, SC  
 CUSTOMER: THOMPSON TURNER CONSTRUCTION CO.  
 SUMTER, SC

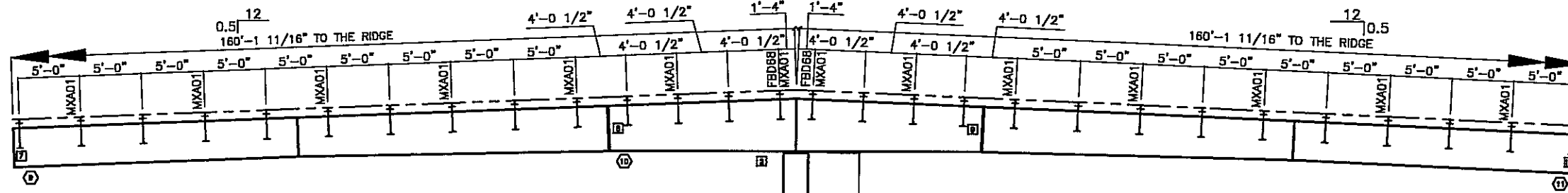
JOB NUMBER: 808A0248A  
 SHEET NO: E16 of 48

DATE: 5/23/08  
 JET  
 DATE: 5/23/08  
 JET  
 DATE: 5/23/08  
 JET  
 DATE: 8/20/08  
 JET

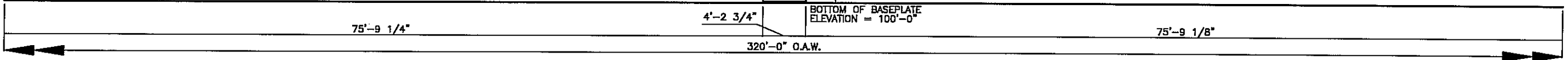
ISSUE: PERMITS, APPROVALS, CRANE CONFIRMATIONS, FINAL ERECTION

DATE: 8-19-08  
 No. 20261  
 PROFESSIONAL ENGINEER

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**ERECTOR NOTE:**  
 MXA01 INDICATE 3" X 3" X 1/4" FLANGE BRACE ANGLE.  
 FOR NEAR SIDE AND FAR SIDE FLANGE BRACING CONDITIONS  
 THE ROOF: FBD68 ATTACHES TO THE 28K JOISTS AND  
 MXA01 ATTACHES TO THE 40LH JOISTS. SEE SHEET D2 FOR DETAILS.



**CROSS SECTION @ LINES 5 & 8**

FOR CONSTRUCTION  
 THIS IS NOT AN APPROVAL SET.

AUG 20 2008

YOUR BUILDING IS BEING FABRICATED.  
 NO CHANGES CAN BE MADE.

MBR ID	LOW PLATE		HIGH PLATE		OUTSIDE FLANGE		INSIDE FLANGE		MEMBER WEB					
	WIDTH	THICK	WIDTH	THICK	WIDTH	THICK	WIDTH	THICK	DEPTH1	THICK	LENGTH	DEPTH2		
8	8.00	0.38	10.00	0.38	8.00	0.38	575.25	8.00	0.31	575.31	38.00	0.28	276.00	38.00
10	8.00	0.50	8.00	0.50	8.00	0.50	355.13	8.00	0.25	359.13	38.00	0.28	289.25	44.00
11	8.00	0.38	10.00	0.38	8.00	0.38	575.25	8.00	0.31	575.31	38.00	0.28	276.00	38.00
3	12.00	1.00	12.00	0.38	12.00	0.75	361.88	12.00	0.75	311.44	48.25	0.25	271.58	48.25
					12.00	0.38	183.19	12.00	0.38	185.00	48.25	0.25	30.00	24.75
											24.75	0.19	183.19	24.75

- NOTES:**
- FOR COLUMN AND RAFTER MARK NUMBERS, SEE SHEETS E7-EB (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.
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**BOLT SCHEDULE**

CON ID	BOLT QTY	BOLT DESCRIPTION	BOLT PART#	NUT PART#
2	8	BOLT/NUT 5/8" x 2 1/4" A325	H0810	H0310
7	8	BOLT/NUT 5/8" x 2 1/4" A325	H0810	H0310
8	8	BOLT/NUT 3/4" x 2 3/4" A325	H0830	H0320
9	8	BOLT/NUT 3/4" x 2 3/4" A325	H0830	H0320
10	8	BOLT/NUT 5/8" x 2 1/4" A325	H0810	H0310

DATE	P.E.	ENG	CHK	DRAWN	ISSUE
5/23/08	JET	JET	JET	JH/MS	PERMITS
5/23/08	JET	JET	JET	JH/MS	APPROVALS
5/23/08	JET	JET	JET	JH/MS	CRANE CONFIRMATIONS
8/20/08	JET	JET	JET	DB/MS/ANL	FINAL ERECTION

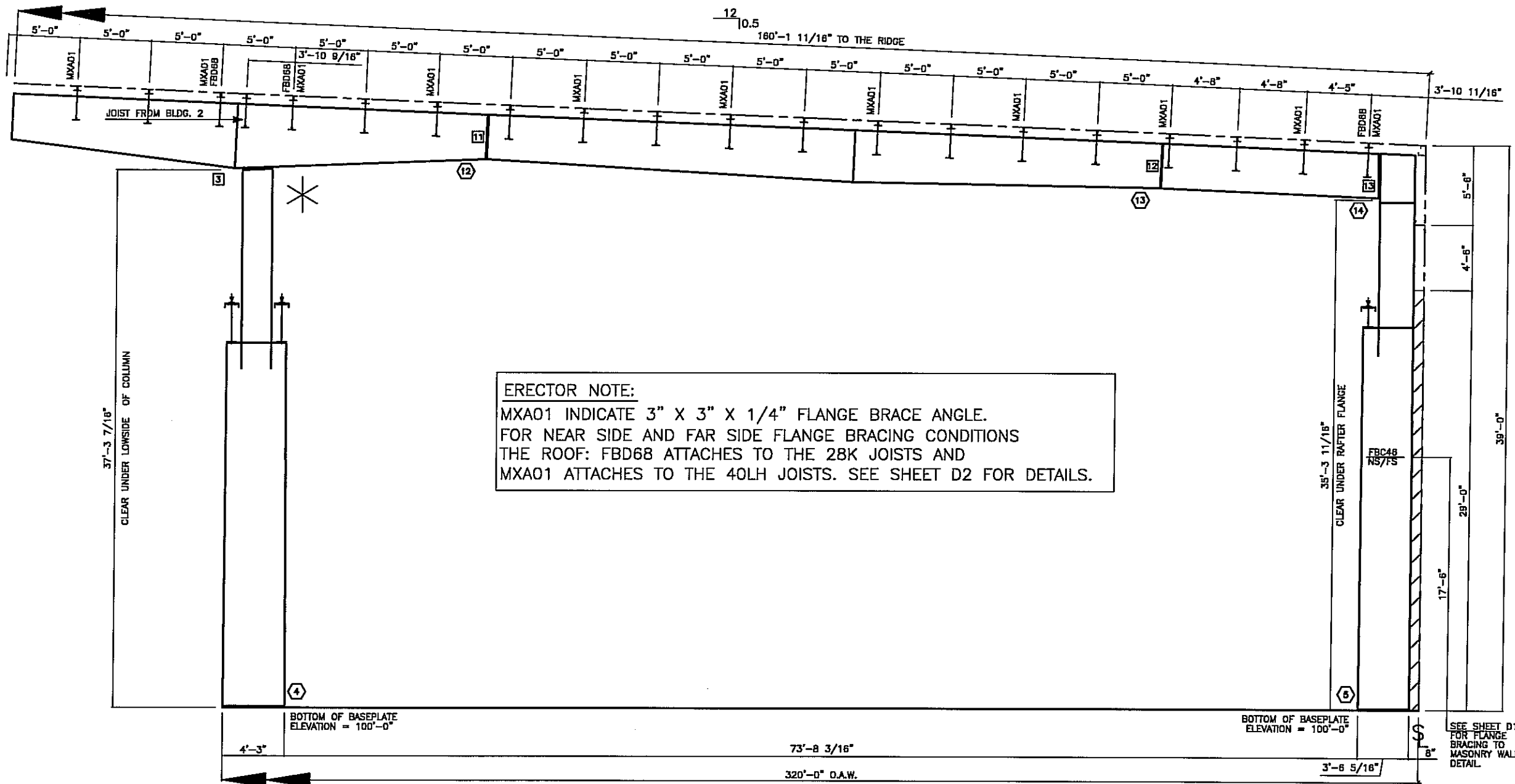
**NUCOR BUILDING SYSTEMS**  
 PO BOX 1006, 200 WHEISTONE RD.  
 SWANSEA, SC 29160  
 PHONE: (803) 568-2100  
 FAX: (803) 568-2121

PROJECT NAME: OLYMPIC STEEL  
 SUMTER, SC  
 CUSTOMER: THOMPSON TURNER CONSTRUCTION CO.  
 SUMTER, SC

JOB NUMBER: S08A0248A  
 SHEET NO: E17 of 48

Professional Engineer Seal for E. TUCKER, No. 20261, State of South Carolina. Includes a disclaimer: "THIS SEAL PERTAINS ONLY TO THE MATERIALS DESIGNED AND SUPPLIED BY NUCOR BUILDING SYSTEMS..."





**ERECTOR NOTE:**  
 MXA01 INDICATE 3" X 3" X 1/4" FLANGE BRACE ANGLE.  
 FOR NEAR SIDE AND FAR SIDE FLANGE BRACING CONDITIONS  
 THE ROOF: FBD68 ATTACHES TO THE 28K JOISTS AND  
 MXA01 ATTACHES TO THE 40LH JOISTS. SEE SHEET D2 FOR DETAILS.

**CROSS SECTION @ LINES 5 & 8**

**FOR CONSTRUCTION  
 THIS IS NOT AN APPROVAL SET.**

AUG 20 2008

**YOUR BUILDING IS BEING FABRICATED.  
 NO CHANGES CAN BE MADE.**

MEMBER ID	LOW PLATE		HIGH PLATE		OUTSIDE FLANGE		INSIDE FLANGE		MEMBER WEB					
	WIDTH	THICK	WIDTH	THICK	WIDTH	THICK	WIDTH	THICK	DEPTH1	THICK	LENGTH	DEPTH2		
12	8.00	0.50	8.00	0.50	8.00	0.38	394.94	8.00	0.50	398.25	37.00	0.38	207.25	53.50
13	8.00	0.38	8.00	0.50	8.00	0.38	551.13	8.00	0.25	252.08	37.00	0.25	252.08	43.00
14	8.00	0.75	8.00	0.38	8.00	0.38	178.75	8.00	0.38	180.31	37.00	0.31	178.75	37.00
4	12.00	1.00	12.00	0.50	12.00	1.00	301.88	12.00	1.00	310.63	48.00	0.25	271.88	49.00
5	12.00	1.00	12.00	0.63	12.00	0.50	459.00	12.00	0.83	318.88	24.50	0.19	143.00	24.50
											41.19	0.25	287.13	41.19
											41.19	0.25	30.00	28.63
											28.63	0.22	102.38	28.63
											28.63	0.28	39.50	28.63

**NOTES:**

- FOR COLUMN AND RAFTER MARK NUMBERS, SEE SHEETS E7-EB (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.
- 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**

MEMBER ID	BOLT QTY	BOLT DESCRIPTION	BOLT PART#	NUT PART#
3	8	BOLT/NUT 1" x 3 1/4" A325	H0640	H0330
11	8	BOLT/NUT 3/4" x 2 3/4" A325	H0630	H0320
12	8	BOLT/NUT 5/8" x 2 1/4" A325	H0810	H0310
13	8	BOLT/NUT 1" x 3 1/4" A325	H0640	H0330

DATE	ISSUE	CHK	ENG	P.E.
5/23/08 <td>PERMITS <td>JH/MS <td>JET <td>JET </td></td></td></td>	PERMITS <td>JH/MS <td>JET <td>JET </td></td></td>	JH/MS <td>JET <td>JET </td></td>	JET <td>JET </td>	JET
5/23/08 <td>APPROVALS <td>JH/MS <td>NDD <td>JET </td></td></td></td>	APPROVALS <td>JH/MS <td>NDD <td>JET </td></td></td>	JH/MS <td>NDD <td>JET </td></td>	NDD <td>JET </td>	JET
5/23/08 <td>CRANE CONFIRMATIONS <td>JH/MS <td>NDD <td>JET </td></td></td></td>	CRANE CONFIRMATIONS <td>JH/MS <td>NDD <td>JET </td></td></td>	JH/MS <td>NDD <td>JET </td></td>	NDD <td>JET </td>	JET
8/20/08 <td>FINAL ERECTION <td>DB/MSB/JL <td>JET <td>JET </td></td></td></td>	FINAL ERECTION <td>DB/MSB/JL <td>JET <td>JET </td></td></td>	DB/MSB/JL <td>JET <td>JET </td></td>	JET <td>JET </td>	JET

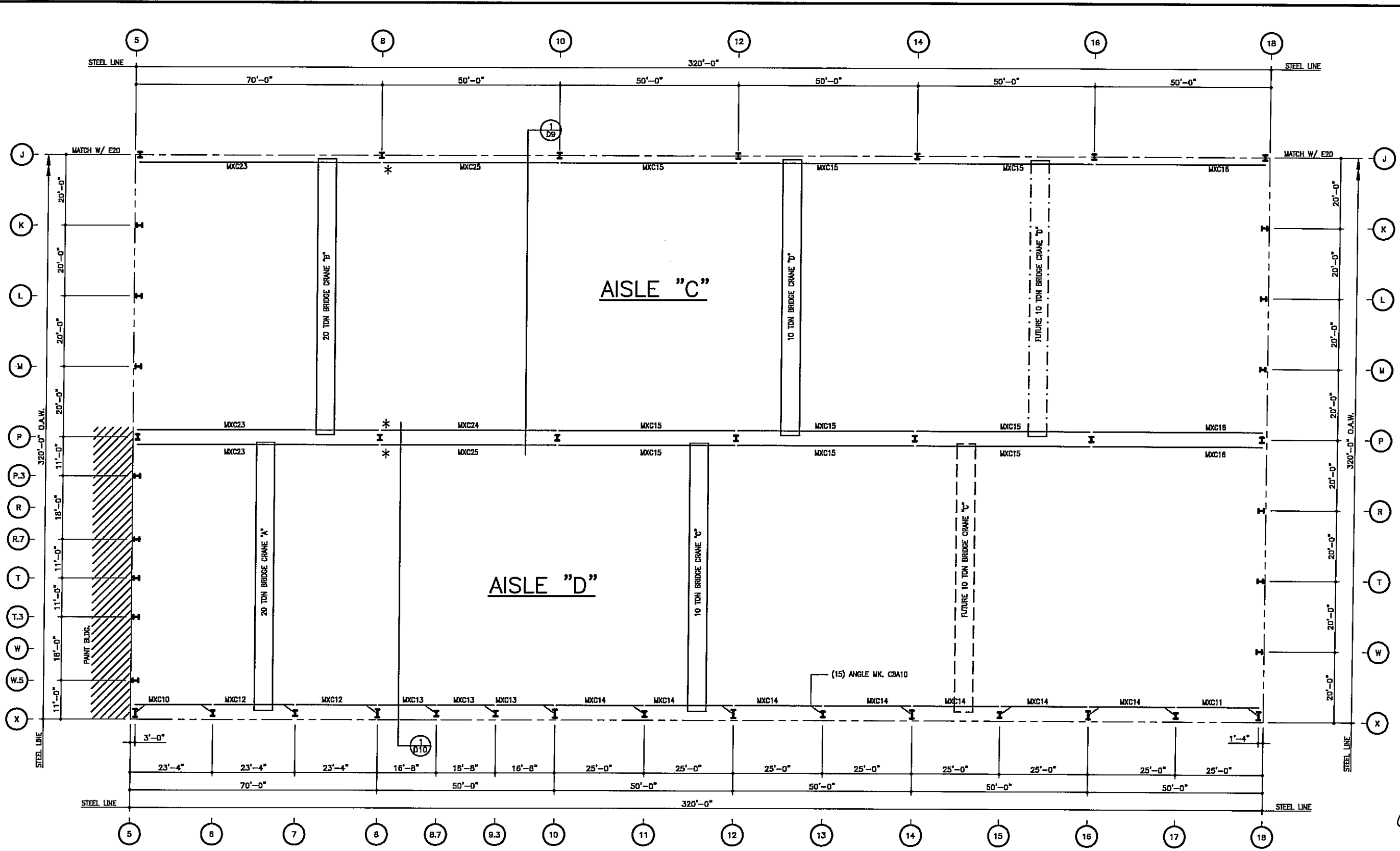
**NUCOR BUILDING SYSTEMS**  
 PO BOX 1006, 200 WHEISTONE RD.  
 SWANSEA, SC 29160  
 PHONE: (803) 568-2100  
 FAX: (803) 568-2121

PROJECT NAME: OLYMPIC STEEL  
 SUMTER, SC  
 CUSTOMER: THOMPSON TURNER CONSTRUCTION CO.  
 SUMTER, SC

JOB NUMBER: S08A0248A

SHEET NO: E18 of 48

Seal area containing a circular stamp with the text 'NUCOR BUILDING SYSTEMS' and 'No. 20261'. Below the stamp is a paragraph of legal disclaimer text regarding the seal's validity and the company's responsibility for the materials and drawings.



### CRANE BEAM PLAN

- 1) SINGLE ANGLE CRANE BRACE NOT SHOWN FOR CLARITY. SEE SHEET E21.
- 2) \*≡ INDICATES TAGGED END OF CRANE BEAM.

FOR CONSTRUCTION  
THIS IS NOT AN APPROVAL SET.

AUG 20 2008

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NO CHANGES CAN BE MADE.

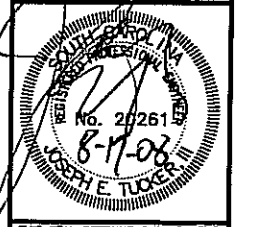
DATE	P.L.E.	ENG	CHK	DWA
5/23/08	JET	JET	JET	JH/MS
5/23/08	JET	JET	JET	JH/MS
5/23/08	JET	JET	JET	JH/MS
8/20/08	JET	JET	JET	DB/MS/LB/NL

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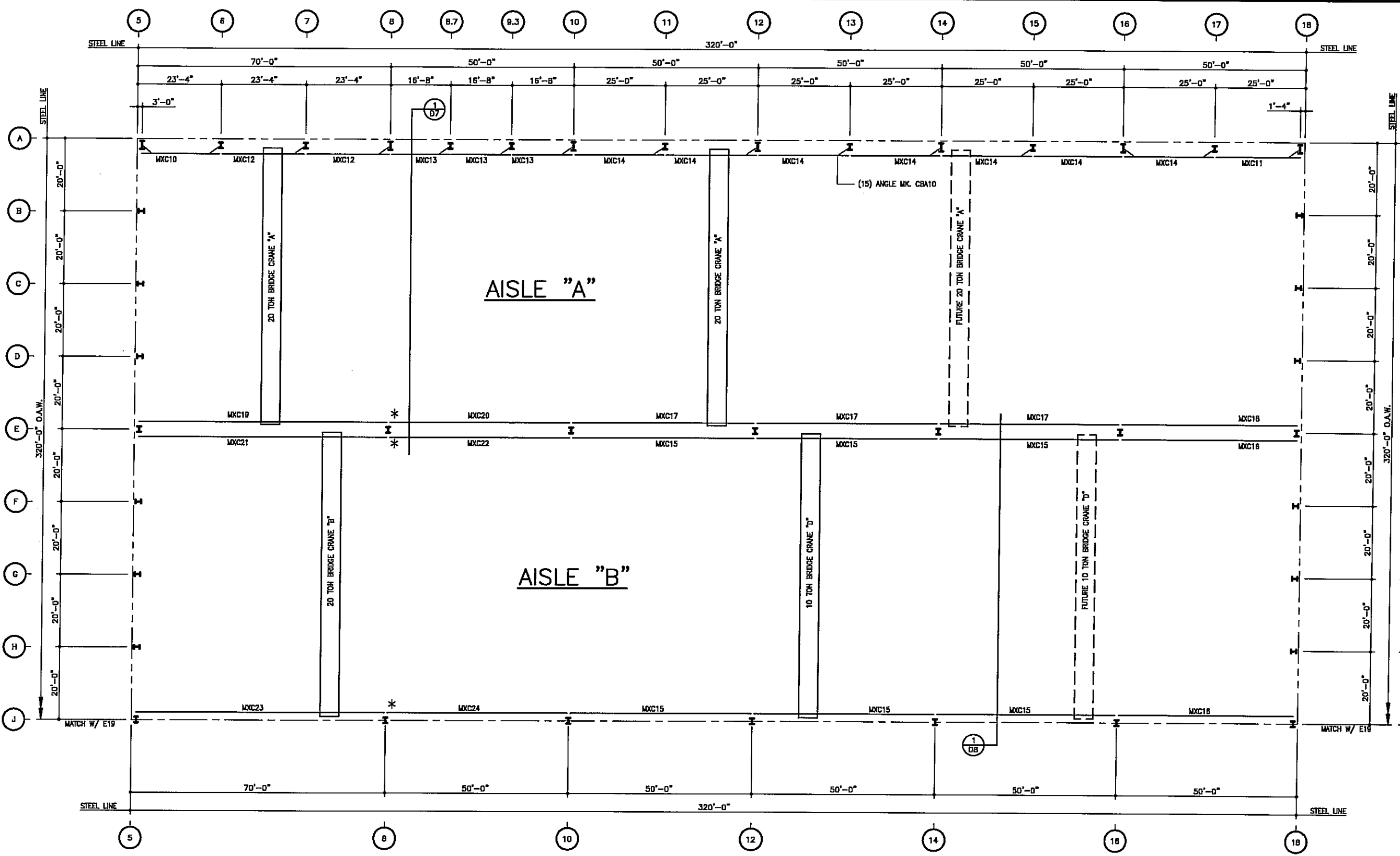
PROJECT NAME:  
 OLYMPIC STEEL  
 SUMTER, SC  
 CUSTOMER:  
 THOMPSON TURNER CONSTRUCTION CO.  
 SUMTER, SC

JOB NUMBER:  
 S08A0248A

SHEET NO:  
 E19 of 48



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### CRANE BEAM PLAN

- 1) SINGLE ANGLE CRANE BRACE NOT SHOWN FOR CLARITY. SEE SHEET E21.
- 2) \* INDICATES TAGGED END OF CRANE BEAM.

FOR CONSTRUCTION  
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AUG 20 2008

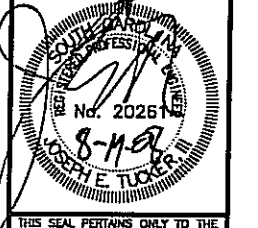
YOUR BUILDING IS BEING FABRICATED.  
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DATE	P.E.	ENG	CHK	DWR
5/23/08	JET	JET	JET	JH/MS
5/23/08	JET	JET	JET	JH/MS
5/23/08	JET	JET	JET	JH/MS
8/20/08	JET	JET	JET	DB/MSLB/JL/JVA

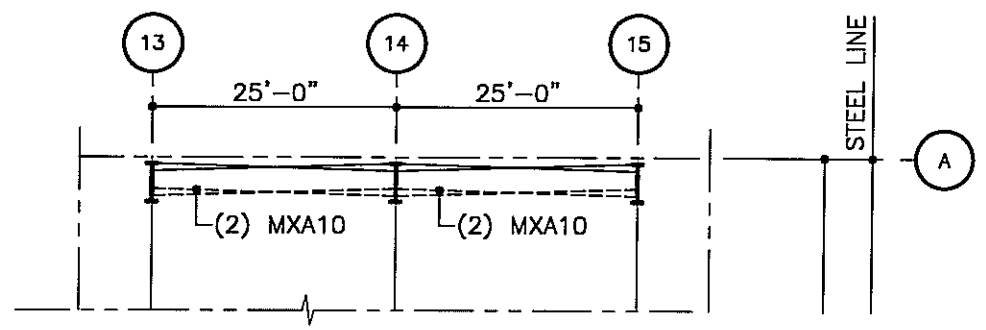
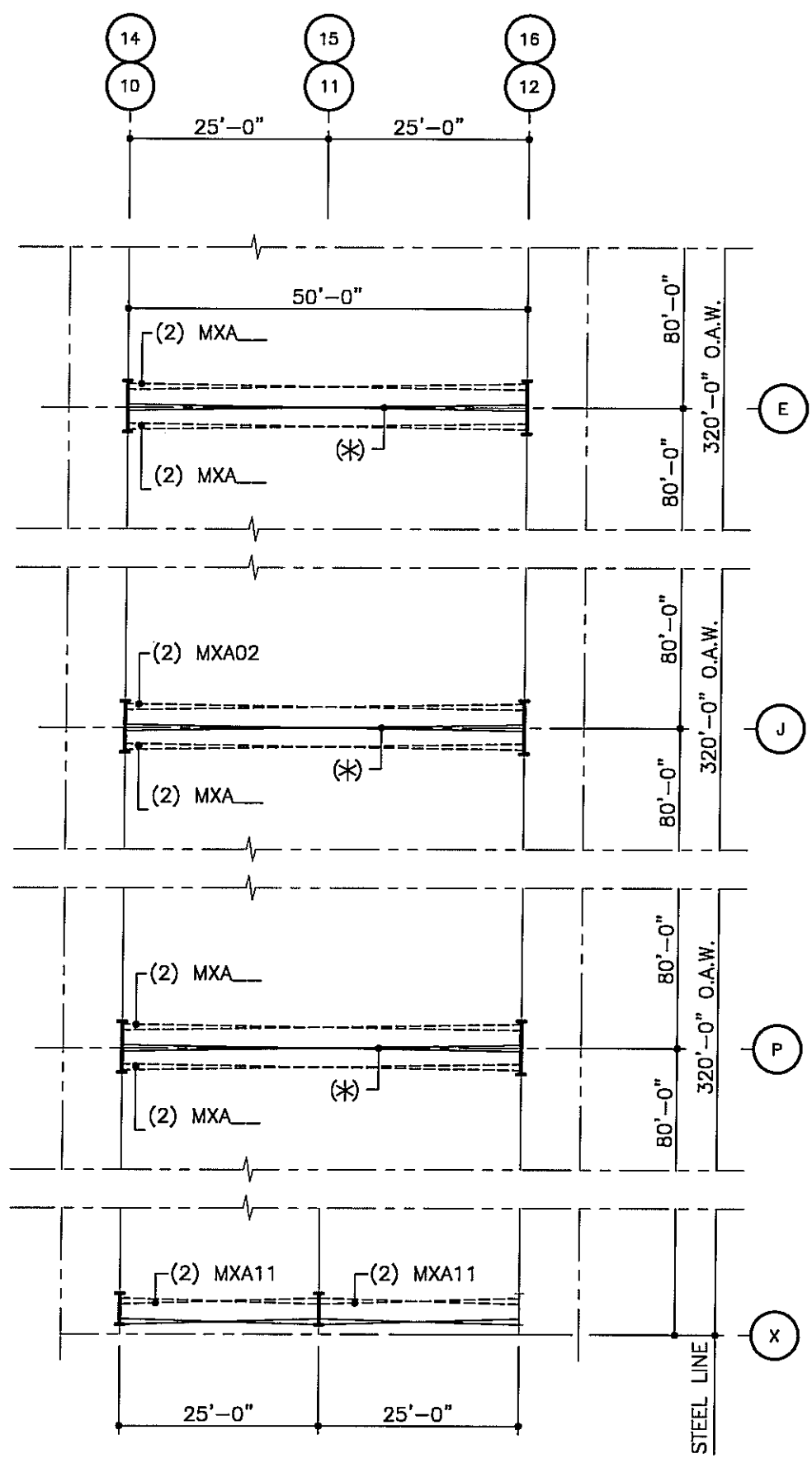
**NUCOR BUILDING SYSTEMS**  
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PROJECT NAME:  
OLYMPIC STEEL  
 SUMTER, SC  
 CUSTOMER:  
THOMPSON TURNER CONSTRUCTION CO.  
SUMTER, SC

JOB NUMBER:  
S08A0248A  
 SHEET NO:  
E20 of 48



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**SIDEWALL & INTERIOR CRANE BRACE**

- 1) SEE SHEETS E25, E28 & E29 FOR SIDEWALL ROD BRACE (RDD\_\_ & RDE\_\_) PART MARKS & ELEVATIONS.
- 2) SEE 2/D11 FOR TYPICAL ANGLE BRACE (MK. MXA\_\_) DETAIL @ LINES A & X.
- 3) SEE 4/D11 FOR TYPICAL ANGLE BRACE (MK. MXA\_\_) DETAILS & PART MARKS @ LINES E, J, & P.
- 4) CRANE RAIL NOT SHOWN FOR CLARITY. SEE SHEETS E19 & E20
- 5) (\*)—SEE SHEET D11.5 FOR ANGLE BRACING PART MARKS & DETAILS.

FOR CONSTRUCTION  
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AUG 20 2008

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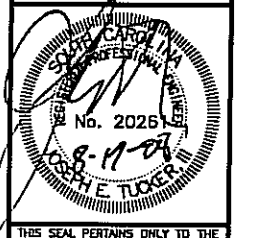
ISSUE	DATE
PERMITS	5/23/08
APPROVALS	5/23/08
CRANE CONFIRMATIONS	5/23/08
FINAL ERECTION	8/20/08

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PROJECT NAME:  
OLYMPIC STEEL  
 SUMTER, SC  
 CUSTOMER:  
THOMPSON TURNER CONSTRUCTION CO.  
SUMTER, SC

JOB NUMBER:  
S08A0248A

SHEET NO:  
E21 of 48

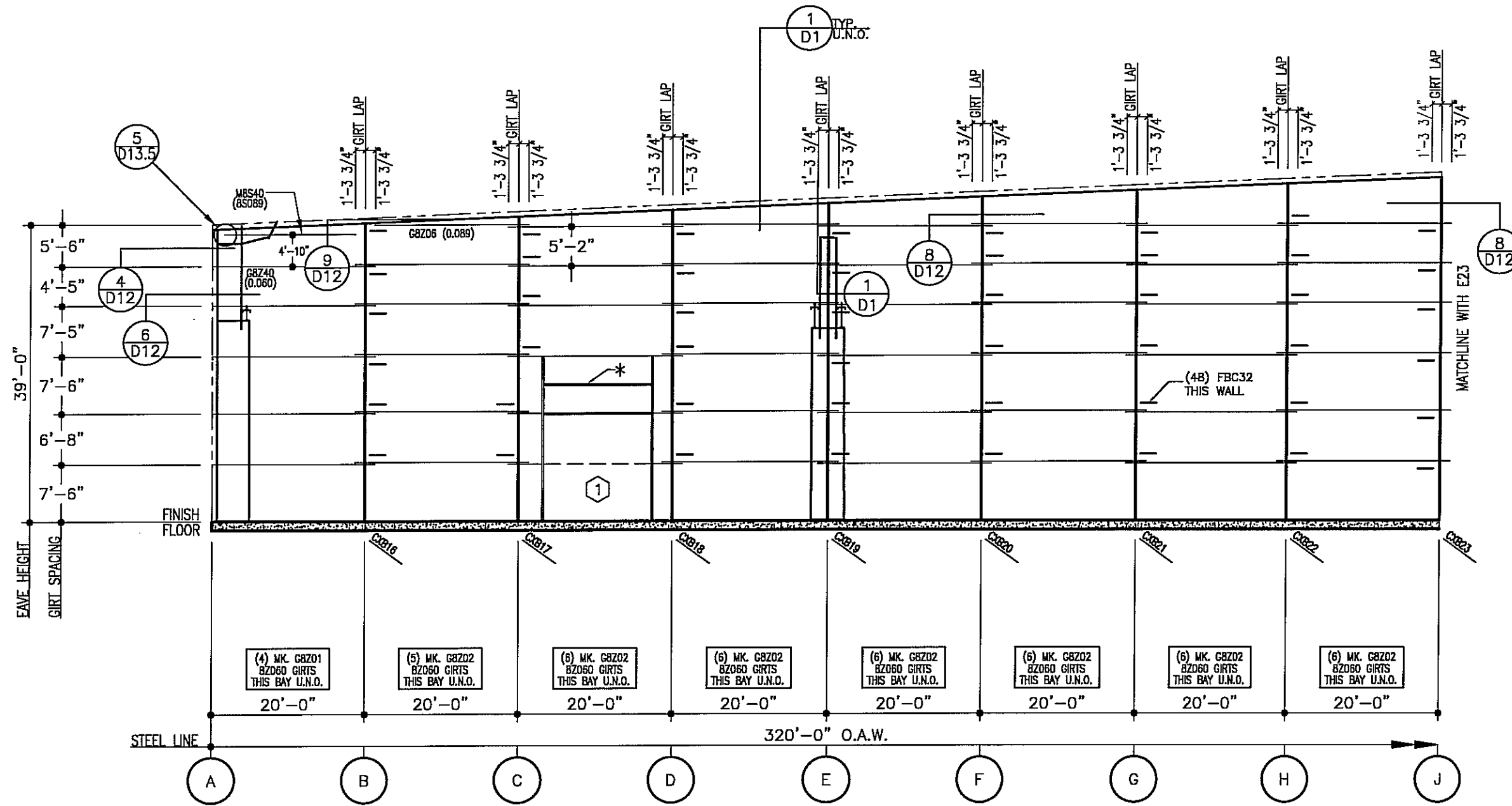


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# FRAMED OPENING SCHEDULE

I.D. NUMBER	QTY	SIZE		MARK NUMBER / MATERIAL			WINDOW/LOUVER SILL HEIGHT	TYPE
		WIDTH	HEIGHT	JAMB	HEADER	SILL		
①	2	14'-0"	14'-0"	J8C01 (8C105)	(2) H8C01 (8C060)	N/A	N/A	ROLL-UP

DATE	ISSUE	PERMITS	APPROVALS	CRANE CONFIRMATIONS	FINAL ERECTION
5/23/08	JEK				
5/23/08	JEK				
5/23/08	JEK				
8/20/08	DB/MS/LB/AL/JV				

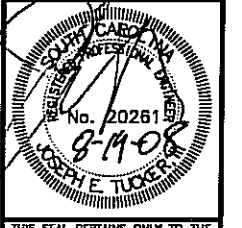


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PROJECT NAME: OLYMPIC STEEL  
 SUMTER, SC  
 CUSTOMER: THOMPSON TURNER CONSTRUCTION CO.  
 SUMTER, SC

JOB NUMBER: S08A0248A

SHEET NO: E22 of 48

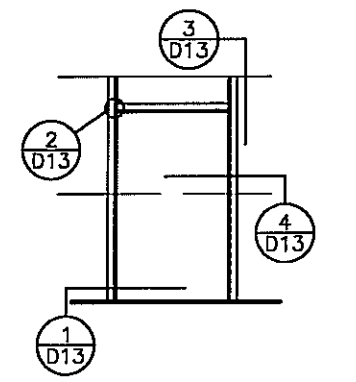


- BLDG. 1  
ENDWALL ELEVATION AT LINE 5**
- 1) ALL FRAMED OPENINGS THIS WALL TO BE FIELD LOCATED. FIELD CUT AND DRILL GIRTS AS NEEDED TO FIT.
  - 2) FBC\_\_\_ INDICATES FLANGE BRACING.
  - 3) \*= ADDITIONAL FRAMED OPENING HEADER SUPPLIED FOR LINER PANEL SUPPORT. FIELD LOCATE AND DRILL JAMBS AS REQUIRED. SEE 4/D22 FOR LINER PANEL DETAIL.

**FOR CONSTRUCTION  
THIS IS NOT AN APPROVAL SET.**

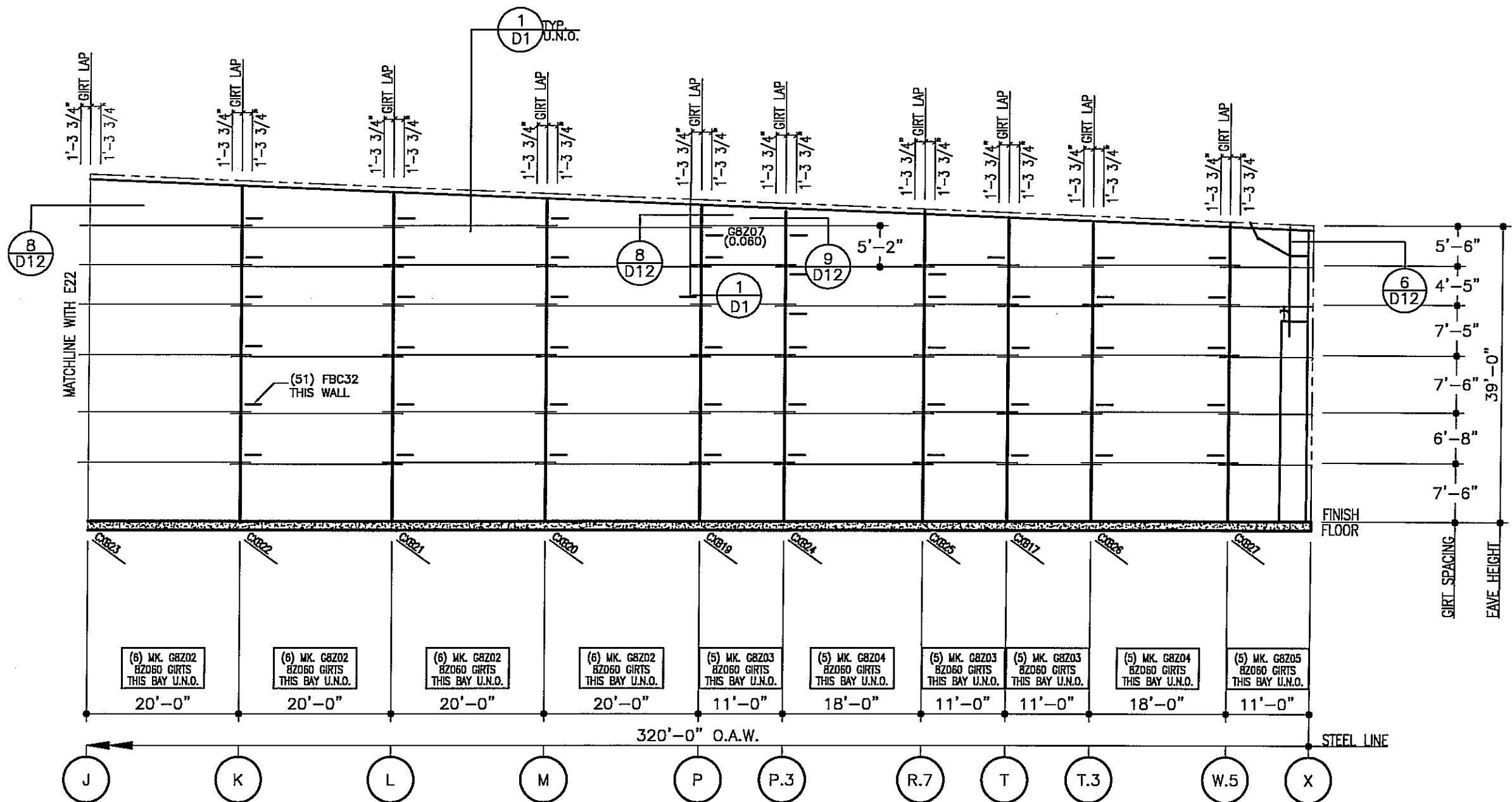
AUG 20 2008

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TYPICAL FRAMED OPENING U.N.O.

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**BLDG. 1  
ENDWALL ELEVATION AT LINE 5**

- 1) ALL FRAMED OPENINGS THIS WALL TO BE FIELD LOCATED. FIELD CUT AND DRILL GIRTS AS NEEDED TO FIT.
- 2) FBC\_\_\_ INDICATES FLANGE BRACING.

**FOR CONSTRUCTION  
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AUG 20 2008

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ISSUE	DATE	P.E.	ENG.	CHK.	DWN.
PERMITS	5/23/08	JET	JET	JET	JH/MS
APPROVALS	5/23/08	JET	JET	JET	JH/MS
CRANE CONFIRMATIONS	5/23/08	JET	JET	JET	JH/MS
FINAL ERECTION	8/20/08	JET	JET	JET	DB/MSLB/ML

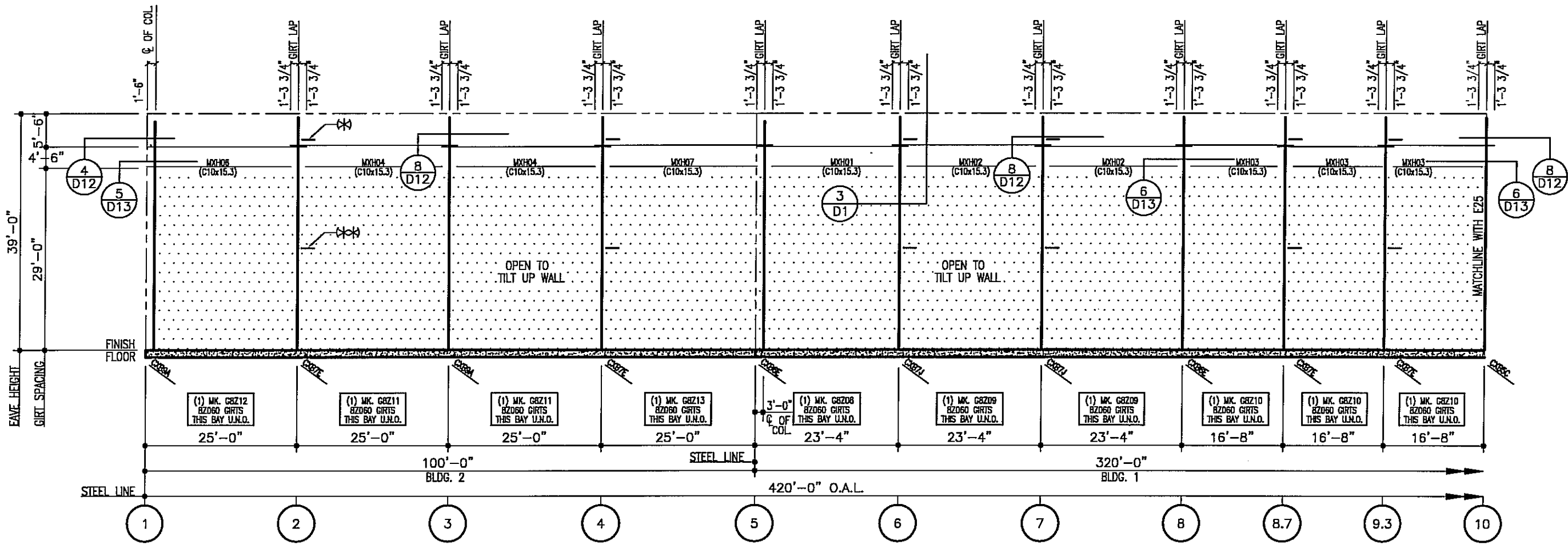
**NUCOR BUILDING SYSTEMS**  
 PO BOX 1006, 200 WHETSTONE RD.  
 SWANSEA, SC 29160  
 PHONE: (803) 568-2100  
 FAX: (803) 568-2121

PROJECT NAME: OLYMPIC STEEL  
 SUMTER, SC  
 CUSTOMER: THOMPSON TURNER CONSTRUCTION CO.  
 SUMTER, SC

JOB NUMBER: SOBA0248A

SHEET NO: E23 of 48

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**SIDEWALL ELEVATION AT LINE X**

- 1) SEE SHEET D1 FOR FLANGE BRACING TO TILT UP WALL @ ELEVATION = 17'-6"
- 2) (\*) - (10) FBC40 THIS WALL @ THE 33'-6" ELEV. & LOC'S SHOWN.  
 (\*\*\*) - (10) FBC46 THIS WALL @ THE 17'-6" ELEV. & LOC'S SHOWN.

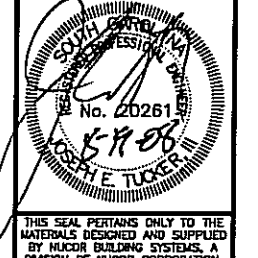
ISSUE	PERMITS	APPROVALS	CRANE CONFORMATIONS	FINAL ERECTION	DATE
					5/23/08
					5/23/08
					5/23/08
					8/20/08

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PROJECT NAME: OLYMPIC STEEL  
 SUMTER, SC  
 CUSTOMER: THOMPSON TURNER CONSTRUCTION CO.  
 SUMTER, SC

JOB NUMBER: S08A0248A

SHEET NO: E24 of 48

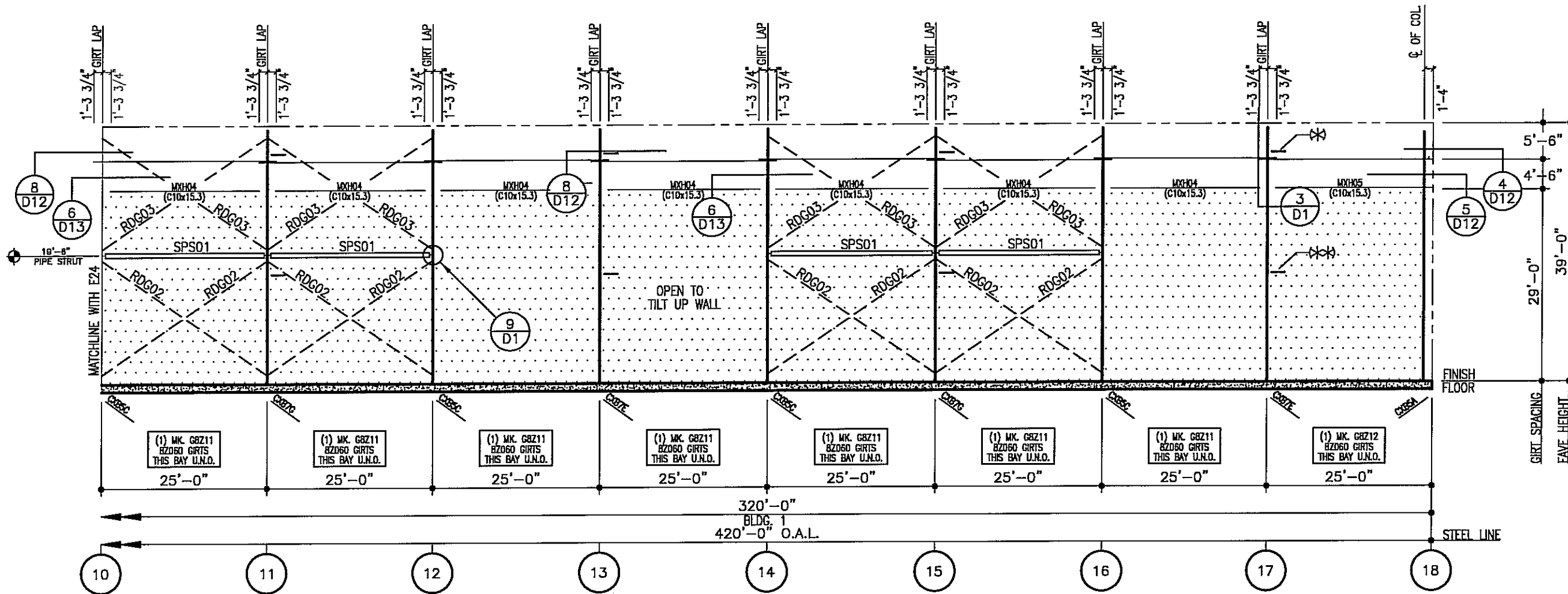


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**SIDEWALL ELEVATION AT LINE X**

- 1) RDG INDICATES 1 1/4 DIA ROD BRACING. SEE SHEET D3 FOR DETAIL.
- 2) SEE SHEET D1 FOR FLANGE BRACING TO TILT UP WALL  
@ ELEVATION = 17'-6"
- 3) (\*) - (10) FBC40 THIS WALL @ THE 33'-6" ELEV. & LOC'S SHOWN.  
(\*) - (10) FBC46 THIS WALL @ THE 17'-6" ELEV. & LOC'S SHOWN.

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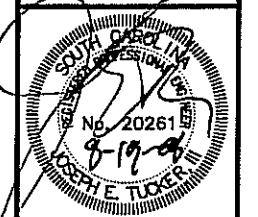
ISSUE	DATE	ENG	P.E.
PERMITS	5/23/08	JET	JET
APPROVALS	5/23/08	JET	JET
CRANE CONFIRMATIONS	5/23/08	JET	JET
FINAL ERECTION	8/20/08	JET	JET

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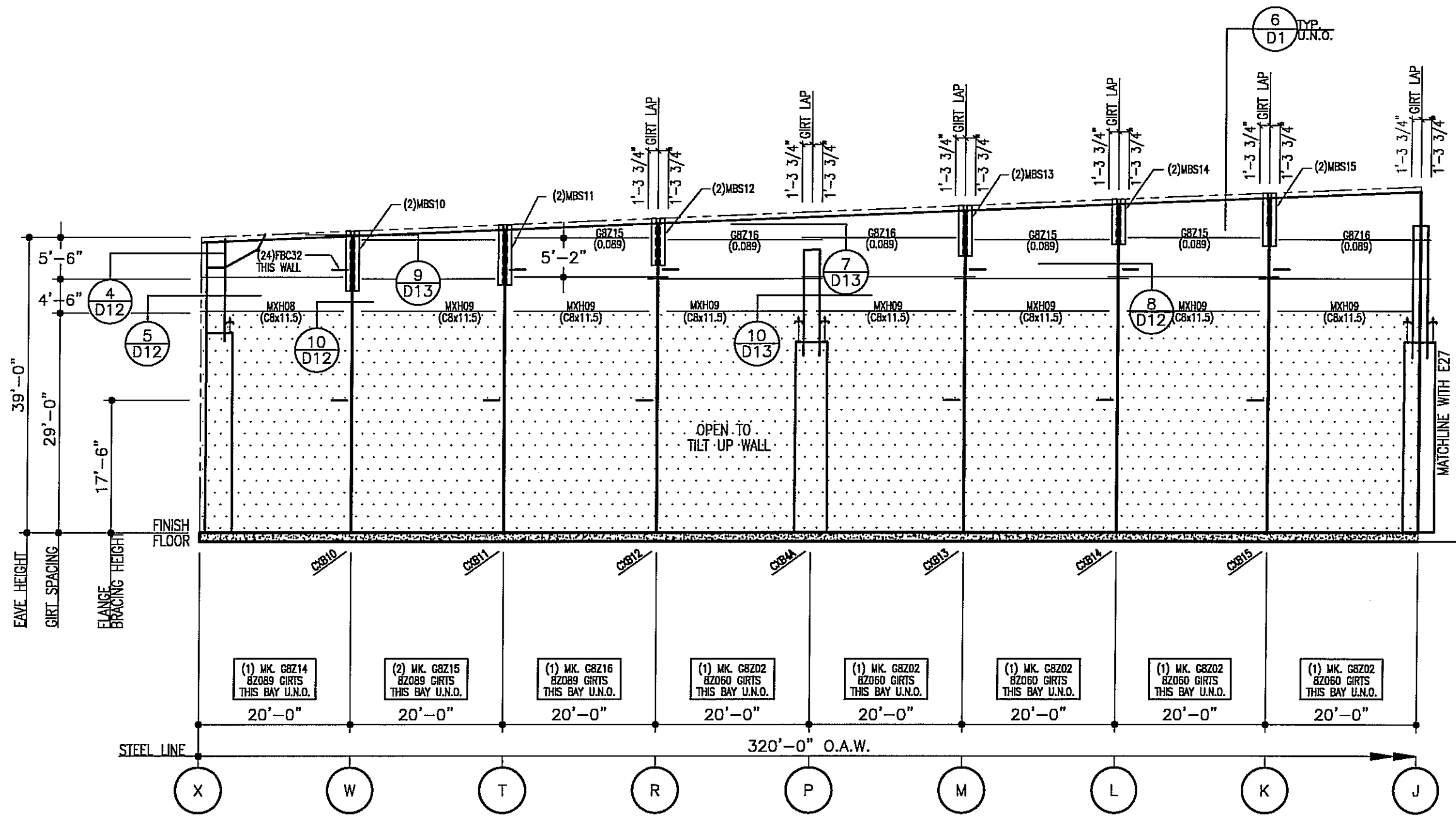
JOB NUMBER: SOBA0248A

SHEET NO: E25 of 48



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**BLDG. 1  
ENDWALL ELEVATION AT LINE 18**  
1) FBC\_\_\_ INDICATES FLANGE BRACING.

**FOR CONSTRUCTION  
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AUG 20 2008  
  
**YOUR BUILDING IS BEING FABRICATED.  
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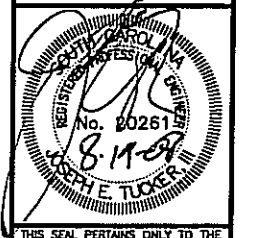
ISSUE	PERMITS	APPROVALS	CRANE CONFIRMATIONS	FINAL ERECTION
OWN	CHK	ENG	P.E.	DATE
JH/MS	NDD	JET	JET	5/23/08
JH/MS	NDD	JET	JET	5/23/08
JH/MS	NDD	JET	JET	5/23/08
DB/MSL/AL	301			8/20/08

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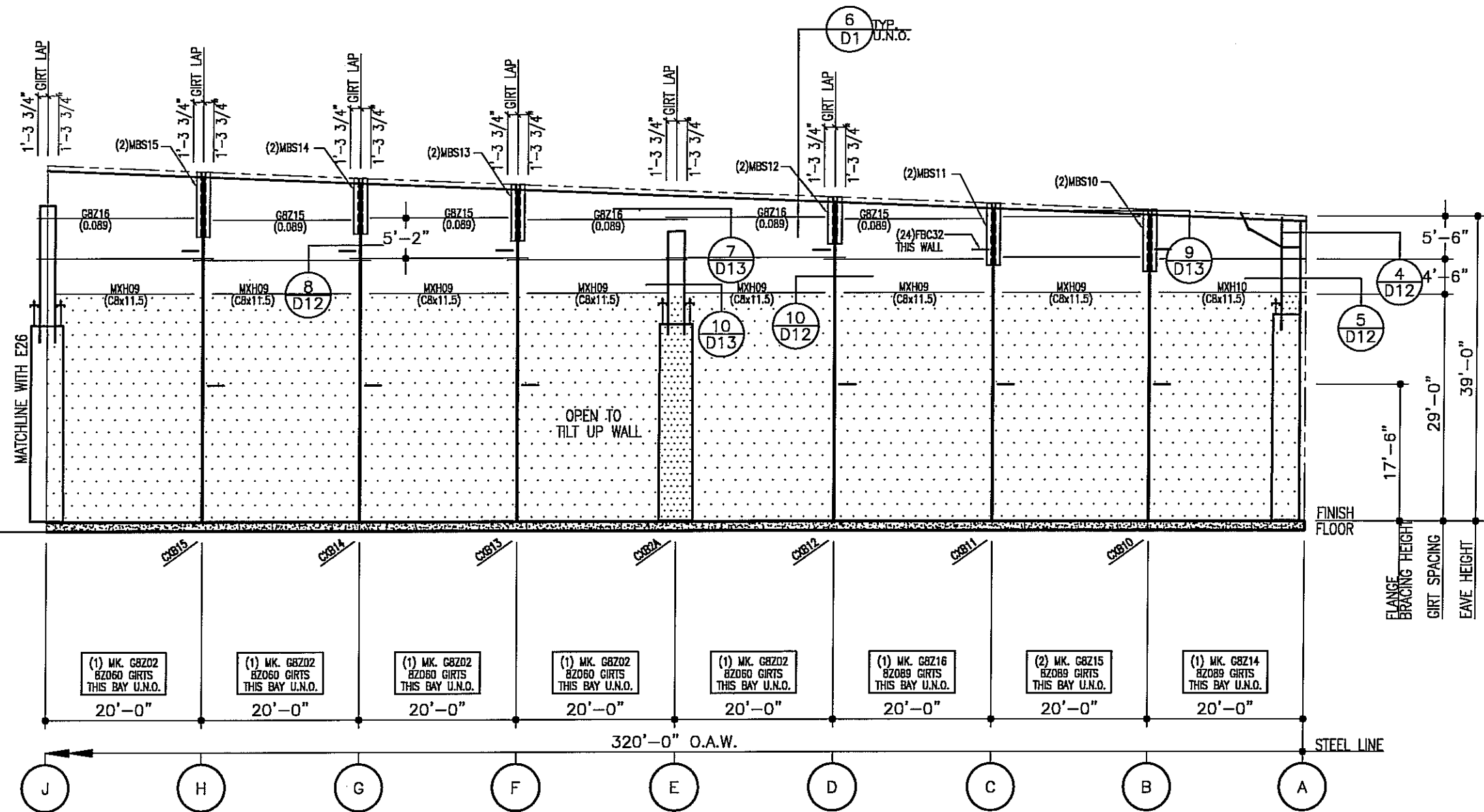
PROJECT NAME: OLYMPIC STEEL  
SUMTER, SC  
CUSTOMER: THOMPSON TURNER CONSTRUCTION CO.  
SUMTER, SC

JOB NUMBER: SOBA0248A

SHEET NO: E26 of 48



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**BLDG. 1  
ENDWALL ELEVATION AT LINE 18**  
1) FBC\_\_\_ INDICATES FLANGE BRACING.

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NO CHANGES CAN BE MADE.**

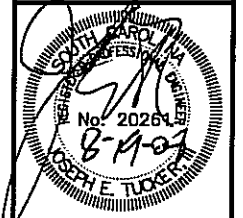
ISSUE	DATE	P.E.	ENG.	CHK.	OWN.
PERMITS	5/23/08	JET	JET	JET	JH/MS
APPROVALS	5/23/08	JET	JET	JET	JH/MS
CRANE CONFIRMATIONS	5/23/08	JET	JET	JET	JH/MS
FINAL ERECTION	8/20/08	JET	JET	JET	DB/MS/L/AL

**NUCOR BUILDING SYSTEMS**  
PO BOX 1006, 200 WHELSTONE RD.  
SWANSEA, SC 29160  
PHONE: (803) 568-2100  
FAX: (803) 568-2121

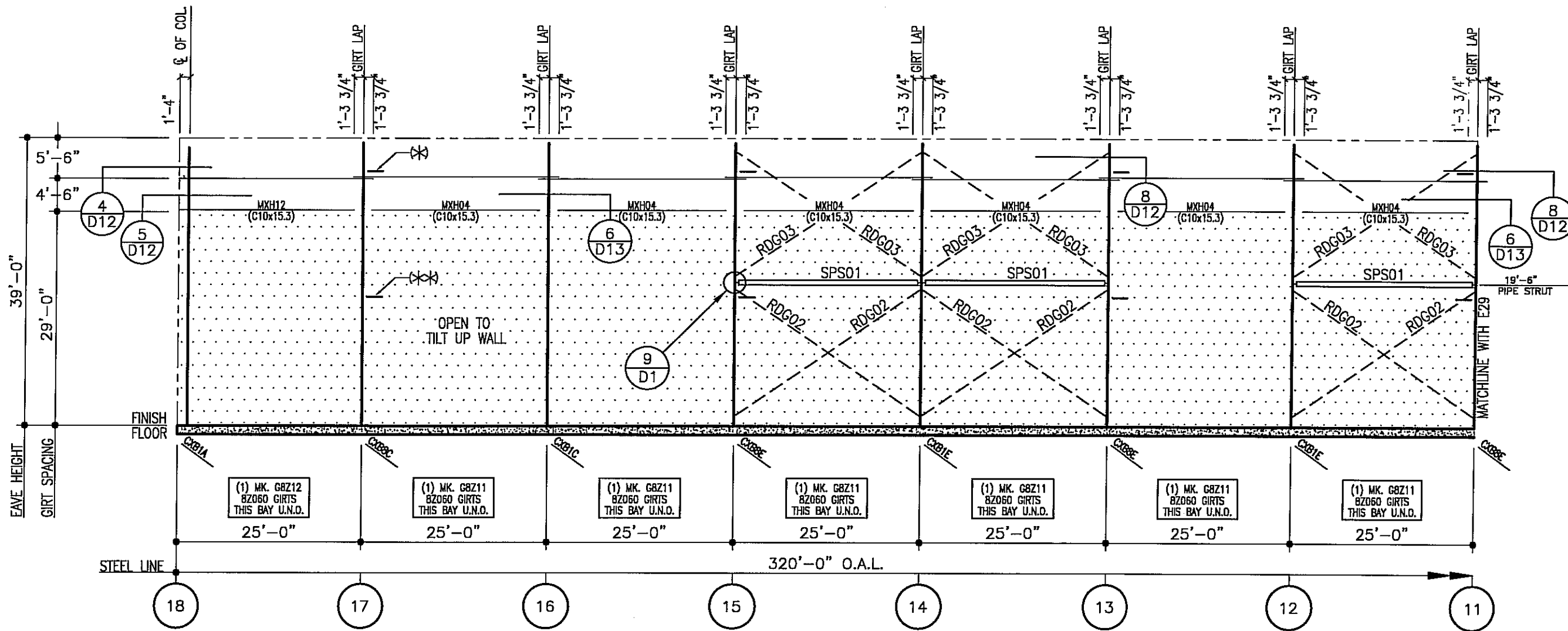
PROJECT NAME: **OLYMPIC STEEL**  
SUMTER, SC  
CUSTOMER: **THOMPSON TURNER CONSTRUCTION CO.**  
SUMTER, SC

JOB NUMBER: **SOBA0248A**

SHEET NO: **E27 of 48**



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**BLDG. 1  
SIDEWALL ELEVATION AT LINE A**

- 1) RDG INDICATES 1 1/4 DIA ROD BRACING. SEE SHEET D3 FOR DETAIL.
- 2) SEE SHEET D1 FOR FLANGE BRACING TO TILT UP WALL  
 @ ELEVATION = 17'-6"
- 3) (\*) - (10) FBC40 THIS WALL @ THE 33'-6" ELEV. & LOC'S SHOWN.  
 (\*\*) - (10) FBC46 THIS WALL @ THE 17'-6" ELEV. & LOC'S SHOWN.

**FOR CONSTRUCTION  
THIS IS NOT AN APPROVAL SET.**

AUG 20 2008

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ISSUE	DATE
PERMITS	5/23/08
APPROVALS	5/23/08
CRANE CONFIRMATIONS	5/23/08
FINAL ERECTION	8/20/08

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 PO BOX 1006, 200 WHELISTONE RD.  
 SWANSEA, SC 29160  
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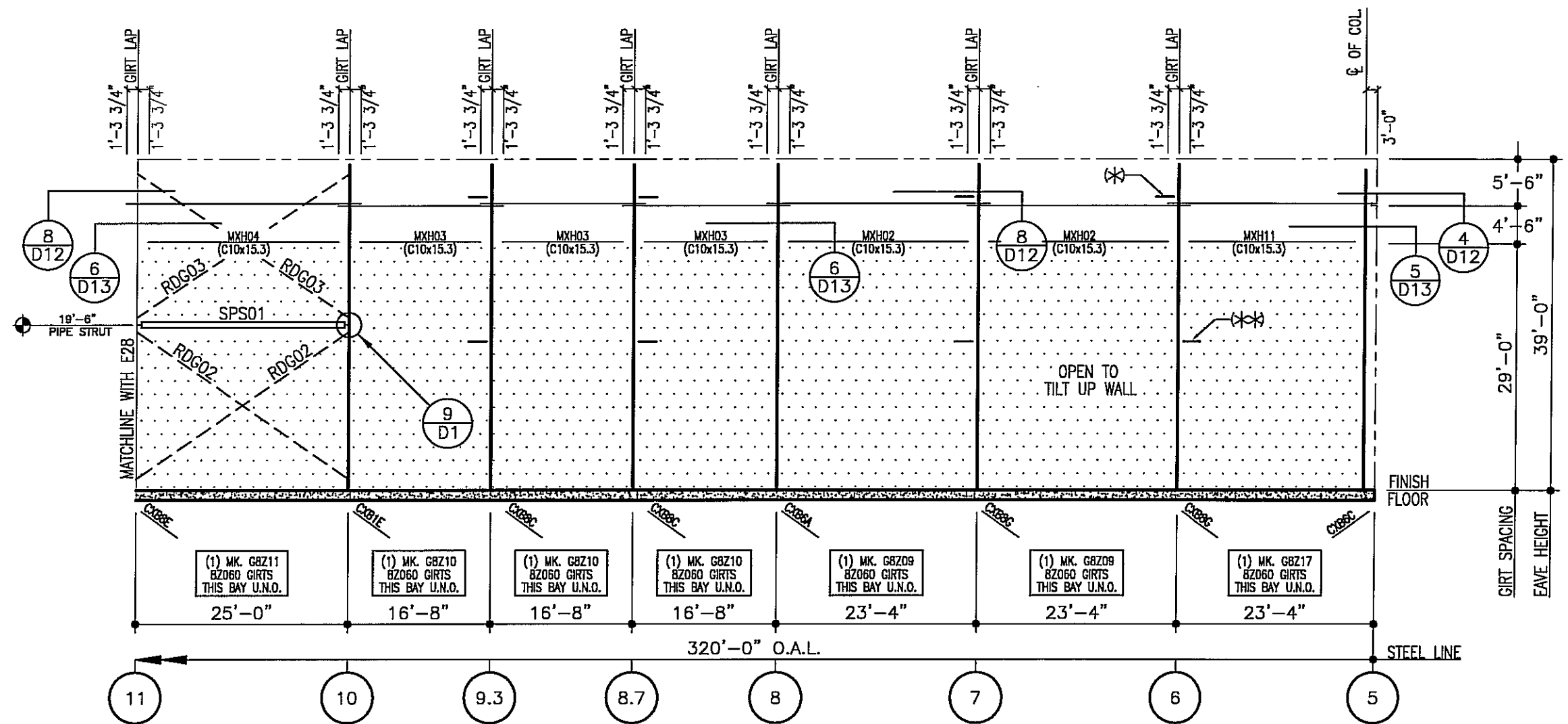
PROJECT NAME: OLYMPIC STEEL  
 SUMTER, SC  
 CUSTOMER: THOMPSON TURNER CONSTRUCTION CO.  
 SUMTER, SC

JOB NUMBER: SO8A0248A

SHEET NO: E28 of 48



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**BLDG. 1  
SIDEWALL ELEVATION AT LINE A**

- 1) RDG INDICATES 1 1/4 DIA ROD BRACING. SEE SHEET D3 FOR DETAIL.
- 3) SEE SHEET D1 FOR FLANGE BRACING TO TILT UP WALL  
 @ ELEVATION = 17'-6"
- 4) (\*) - (10) FBC40 THIS WALL @ THE 33'-6" ELEV. & LOC'S SHOWN.  
 (\*\*\*) - (10) FBC46 THIS WALL @ THE 17'-6" ELEV. & LOC'S SHOWN.

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AUG 20 2008

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ISSUE	DATE	ENG.	P.E.
PERMITS	5/23/08	JET	JET
APPROVALS	5/23/08	JET	JET
CRANE CONFIRMATIONS	5/23/08	JET	JET
FINAL ERECTION	8/20/08	JET	JET

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 FAX: (803) 568-2121

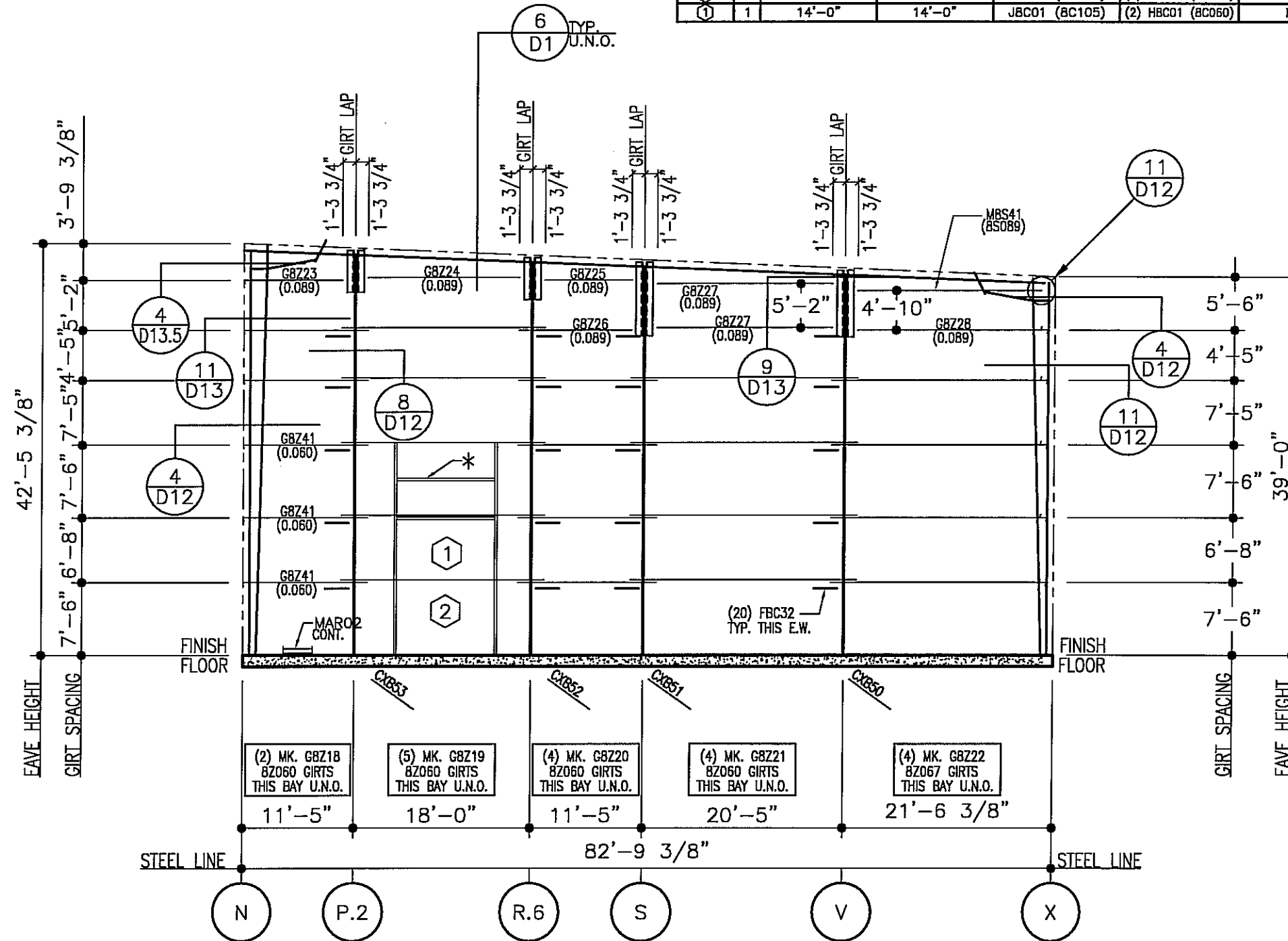
PROJECT NAME: OLYMPIC STEEL  
 SUMTER, SC  
 JOB NUMBER: S08A0248A  
 SHEET NO: E29 of 48  
 CUSTOMER: THOMPSON TURNER CONSTRUCTION CO.  
 SUMTER, SC

NO. 20261  
 8-19-08  
 JOSEPH E. TUCKER, II

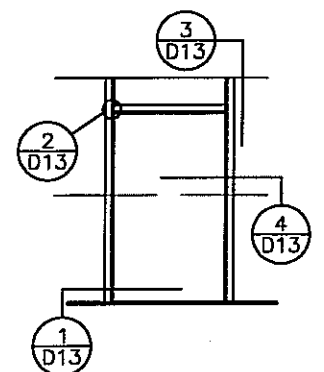
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# FRAMED OPENING SCHEDULE

I.D. NUMBER	QTY	SIZE		MARK NUMBER / MATERIAL			WINDOW/LOUVER SILL HEIGHT	TYPE
		WIDTH	HEIGHT	JAMB	HEADER	SILL		
②	2	10'-0"	14'-0"	JBC01 (8C105)	(2) HBC02 (8C060)	N/A	N/A	ROLL-UP
①	1	14'-0"	14'-0"	JBC01 (8C105)	(2) HBC01 (8C060)	N/A	N/A	ROLL-UP



- 1) ALL FRAMED OPENINGS THIS WALL TO BE FIELD LOCATED. FIELD CUT AND DRILL GIRTS AS NEEDED TO FIT.
- 2) \*= ADDITIONAL FRAMED OPENING HEADER SUPPLIED FOR LINER PANEL SUPPORT. FIELD LOCATE AND DRILL JAMBS AS REQUIRED. SEE 4/D22 FOR LINER PANEL DETAIL.



ISSUE	DATE	ENG.	CHK.	APP.	DATE
PERMITS	5/23/08	JET	JET	JET	5/23/08
APPROVALS	5/23/08	JET	JET	JET	5/23/08
CRANE CONFIRMATIONS	5/23/08	JET	JET	JET	5/23/08
FINAL ERECTION	8/20/08	JET	JET	JET	8/20/08

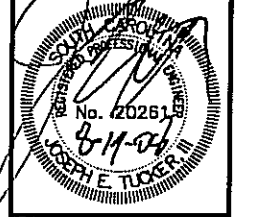
**NUCOR BUILDING SYSTEMS**

PO BOX 1006, 200 WHELSTONE RD.  
 SWANSEA, SC 29160  
 PHONE: (803) 568-2100  
 FAX: (803) 568-2121

PROJECT NAME: OLYMPIC STEEL  
 SUMTER, SC  
 CUSTOMER: THOMPSON TURNER CONSTRUCTION CO.  
 SUMTER, SC

JOB NUMBER: SOBA0248A

SHEET NO: E30 of 48

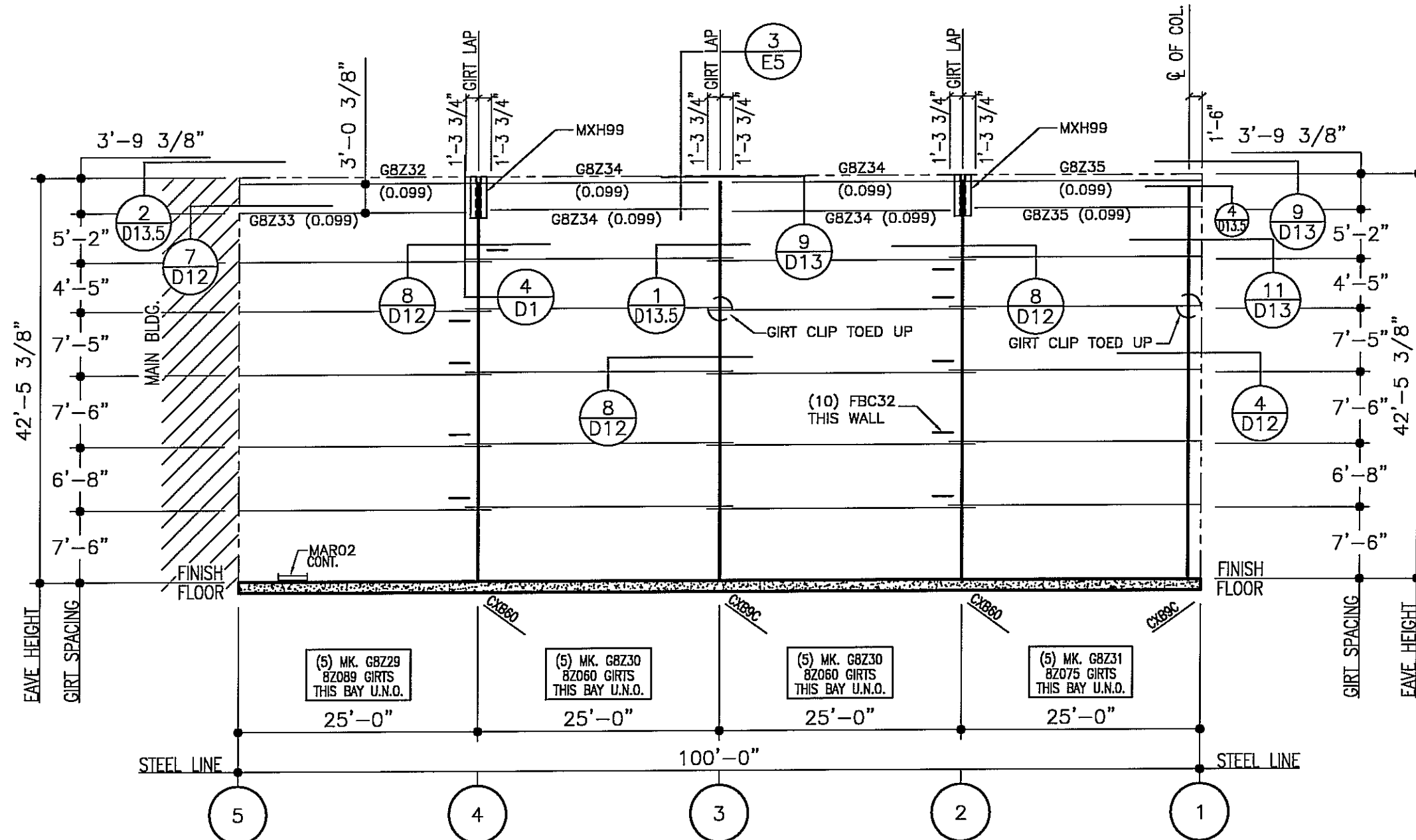


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**SIDEWALL ELEVATION AT LINE N**

1) FBC\_\_ INDICATES FLANGE BRACING.

FOR CONSTRUCTION  
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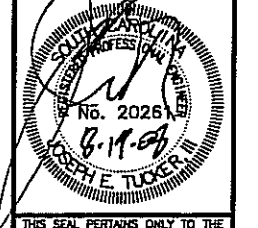
ISSUE	DATE	P.E.	ENG.	CRK.	DWN.
PERMITS	5/23/08	JET	JET	NDD	JH/MS
APPROVALS	5/23/08	JET	JET	NDD	JH/MS
CRANE CONFIRMATIONS	5/23/08	JET	JET	NDD	JH/MS
FINAL ERECTION	8/20/08	JET	JET	NDD	JH/MS

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 PO BOX 1006, 200 WHELTSTONE RD.  
 SWANSEA, SC 29160  
 PHONE: (803) 568-2100  
 FAX: (803) 568-2121

PROJECT NAME: OLYMPIC STEEL  
 SUMTER, SC  
 CUSTOMER: THOMPSON TURNER CONSTRUCTION CO.  
 SUMTER, SC

JOB NUMBER: S08A0248A

SHEET NO: E31 of 48



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J

RIDGE/MATCHLINE WITH SHEET E31.6

RIDGE/MATCHLINE WITH SHEET E31.6

Z

160'-1 11/16"  
(ON SLOPE)

PAINT BLDG.

X

5

320'-0"

18

MAIN BLDG. BUNDLING PLAN

FOR CONSTRUCTION  
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AUG 20 2008

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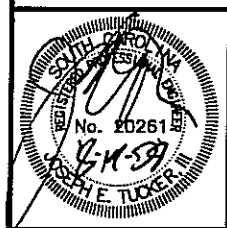
ISSUE	DATE	P.E.	ENG.	CHK.	DNW.
PERMITS	5/23/08	JET	JET	JET	JH/MS
APPROVALS	5/23/08	JET	JET	JET	JH/MS
CRANE CONFIRMATIONS	5/23/08	JET	JET	JET	JH/MS
FINAL ERECTION	6/20/08	JET	JET	JET	DB/MS/LB/NL

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 PO BOX 1006, 200 WHETSTONE RD.  
 SWANSEA, SC 29160  
 PHONE: (803) 568-2100  
 FAX: (803) 568-2121

PROJECT NAME: OLYMPIC STEEL  
 SUMTER, SC  
 CUSTOMER: THOMPSON TURNER CONSTRUCTION CO.  
 SUMTER, SC

JOB NUMBER: S08A0248A

SHEET NO: E31.3 of 48

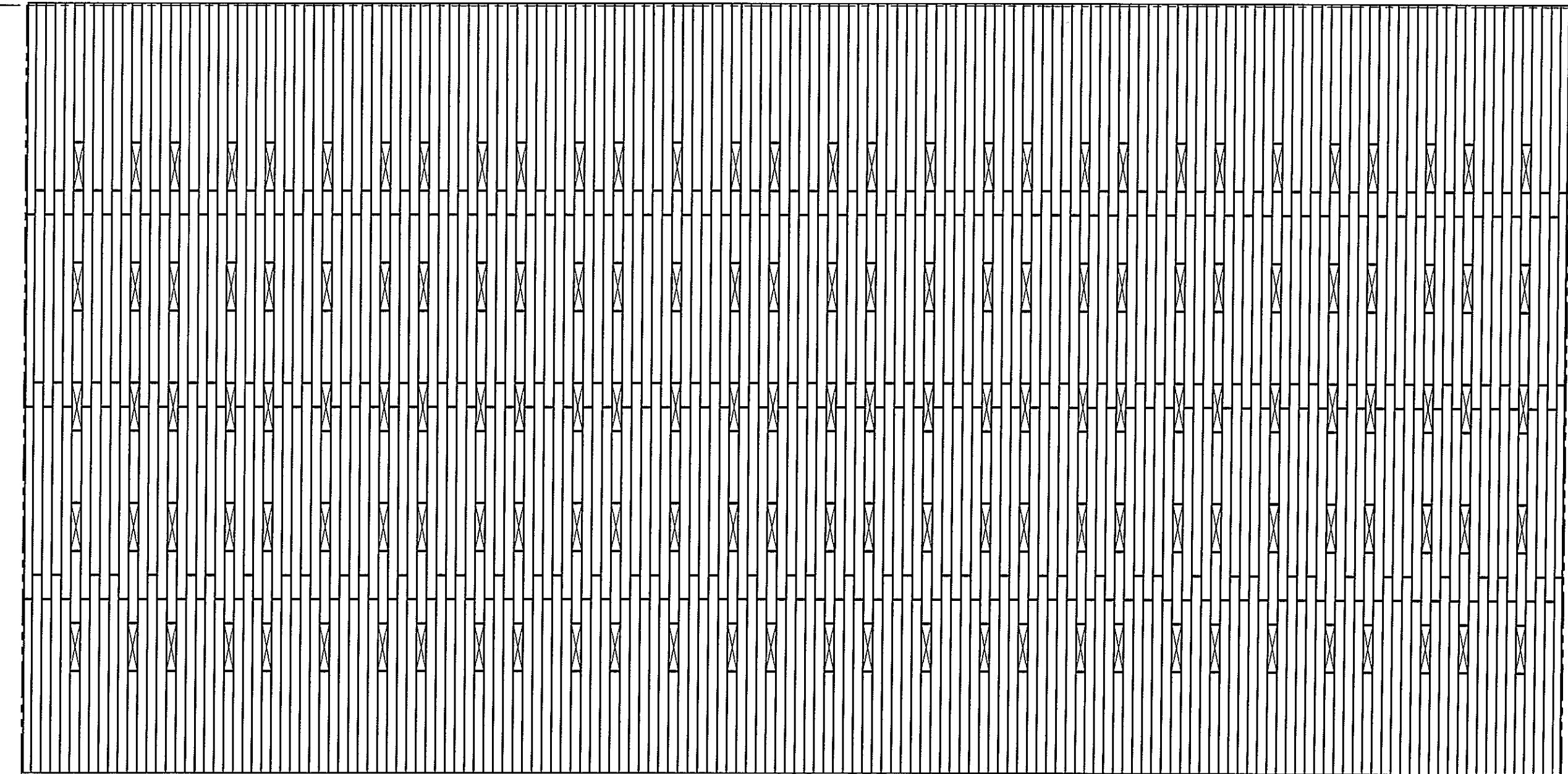


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160'-1 11/16"  
(ON SLOPE)

A

J



RIDGE/MATCHLINE WITH SHEET E31.3

RIDGE/MATCHLINE WITH SHEET E31.3

320'-0"

5

18

**MAIN BLDG. BUNDLING PLAN**

FOR CONSTRUCTION  
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AUG 20 2008

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ISSUE	DATE	P.E.	ENG.	CHK.	DWN.
PERMITS	5/23/08	JET	JET	JET	JH/MS
APPROVALS	5/23/08	JET	JET	JET	JH/MS
CRANE CONFIRMATIONS	5/23/08	JET	JET	JET	JH/MS
FINAL ERECTION	8/20/08				DB/MS/LB/AL

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 SWANSEA, SC 29160  
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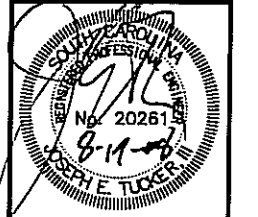
PROJECT NAME:  
OLYMPIC STEEL

SUMTER, SC

CUSTOMER:  
THOMPSON TURNER CONSTRUCTION CO.  
SUMTER, SC

JOB NUMBER:  
S08A0248A

SHEET NO:  
E31.6 of 48



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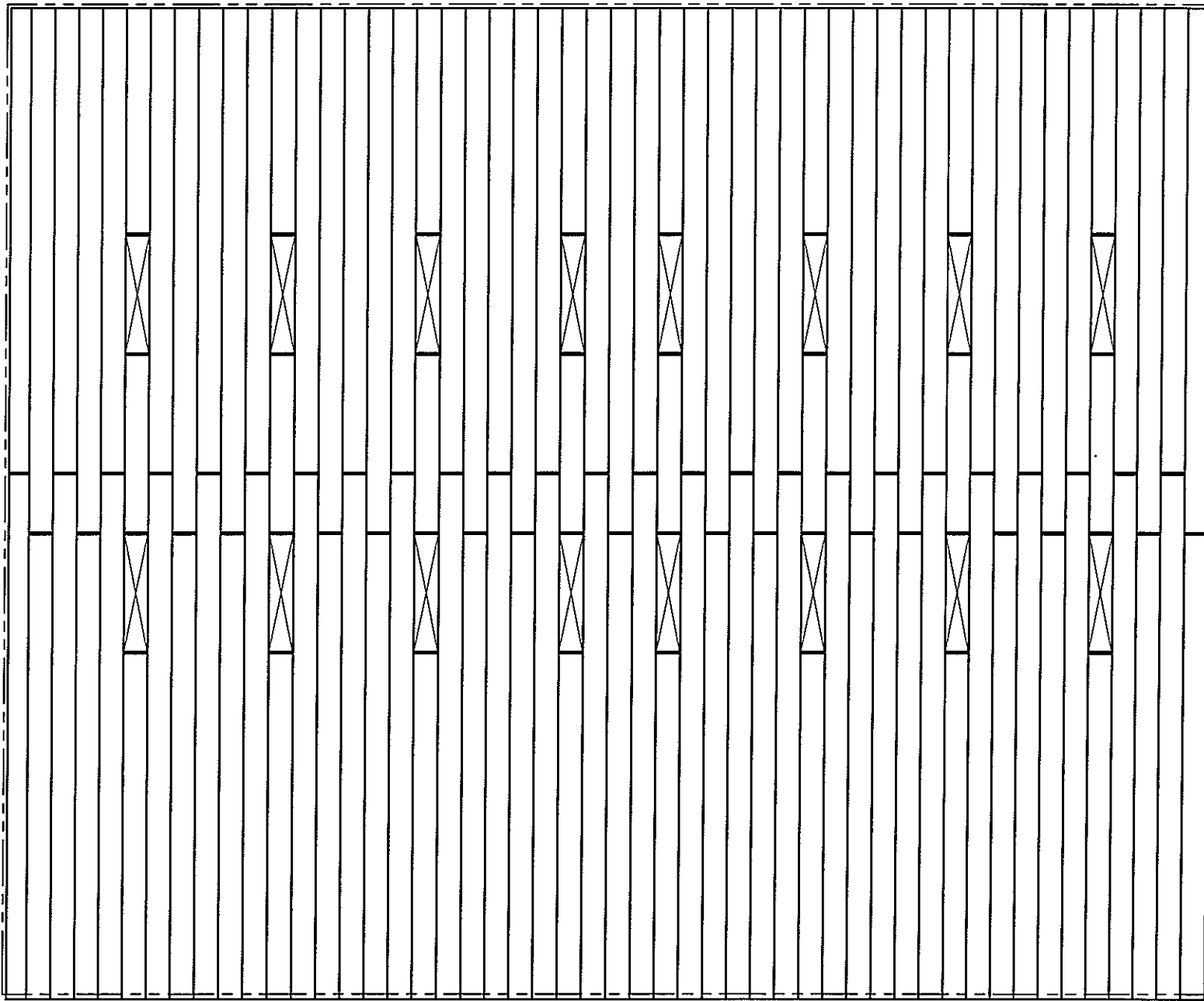
82'-10 1/4"  
(ON SLOPE)

X

Z

1

5



LOW EAVE

100'-0"

**PAINT BLDG.  
BUNDLING PLAN**

FOR CONSTRUCTION  
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AUG 20 2008

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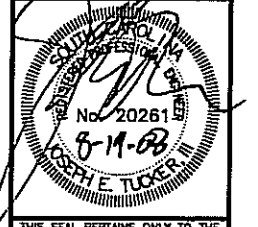
ISSUE	DATE	P.E.	ENG.	CHK.	DWN.
PERMITS	5/23/08	JET	JET	NDD	JH/MS
APPROVALS	5/23/08	JET	JET	NDD	JH/MS
CRANE CONFIRMATIONS	5/23/08	JET	JET	NDD	JH/MS
FINAL ERECTION	8/20/08	JET	JET	NDD	DB/MS/LB/NL

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PROJECT NAME: OLYMPIC STEEL  
 SUMTER, SC  
 CUSTOMER: THOMPSON TURNER CONSTRUCTION CO.  
 SUMTER, SC

JOB NUMBER: S08A0248A

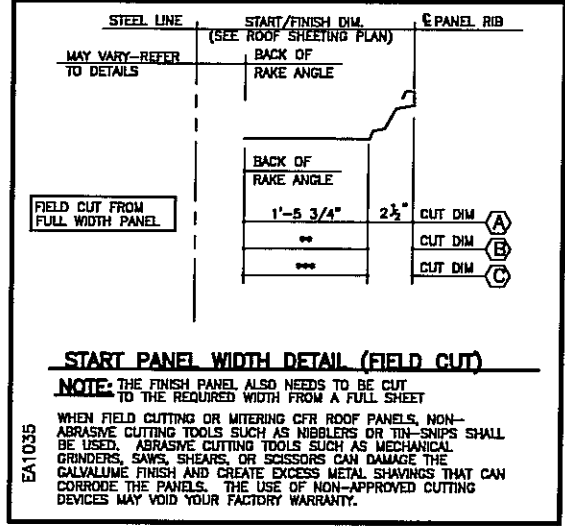
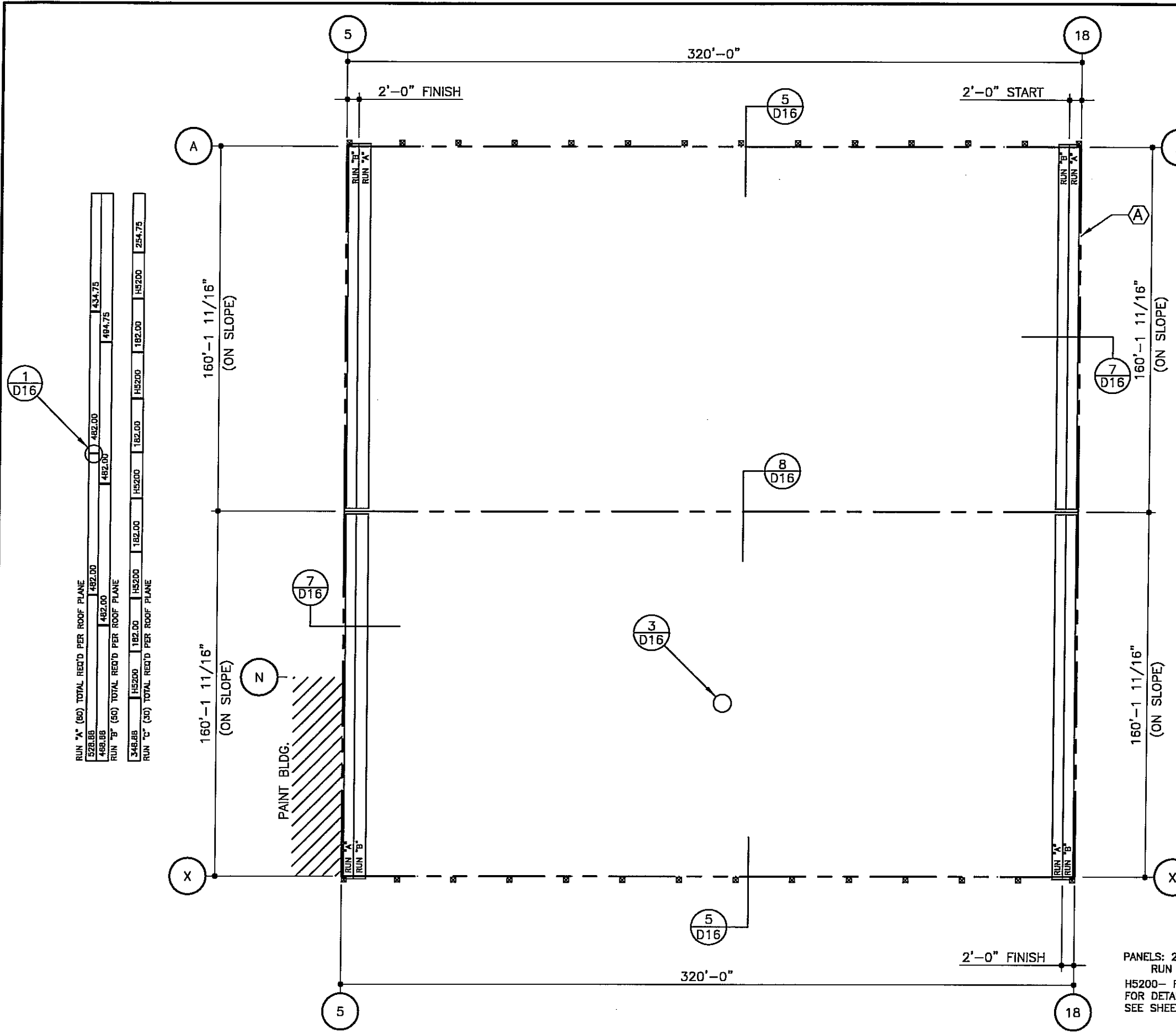
SHEET NO: E31.9 of 48



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BUILDING ID	GRID LINE	MAXIMUM SPACING	LOCATIONS
MAIN	X	25'-0"	14
MAIN	A	25'-0"	14

DATE	DATE	DATE	DATE
5/23/08	5/23/08	5/23/08	8/20/08



**ERECTOR NOTE:**  
 THE (30) PANEL RUNS C'S ARE TO REPLACE (30) OF THE PANEL RUN B'S. FIELD LOCATE TRANSLUCENT PANEL RUN AS REQUIRED.

**FOR CONSTRUCTION THIS IS NOT AN APPROVAL SET.**

**AUG 20 2008**

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**MAIN BLDG. ROOF SHEETING PLAN**

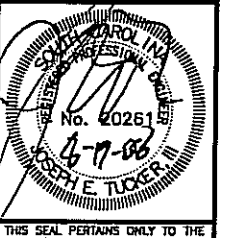
PANELS: 24 GA. STANDING SEAM - POLAR WHITE (SILICONE POLYESTER)  
 RUN A AND RUN B ARE TO ALTERNATE FROM RAKE TO RAKE.  
 H5200 - ROOF TRANSLUCENT PANELS, FIELD LOCATED. SEE SHEET D17 FOR DETAIL.  
 SEE SHEET D16 FOR THERMAL BLOCK DETAIL.

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 SWANSEA, SC 29160  
 PHONE: (803) 568-2100  
 FAX: (803) 568-2121

PROJECT NAME: OLYMPIC STEEL  
 SUMTER, SC  
 CUSTOMER: THOMPSON TURNER CONSTRUCTION CO.  
 SUMTER, SC

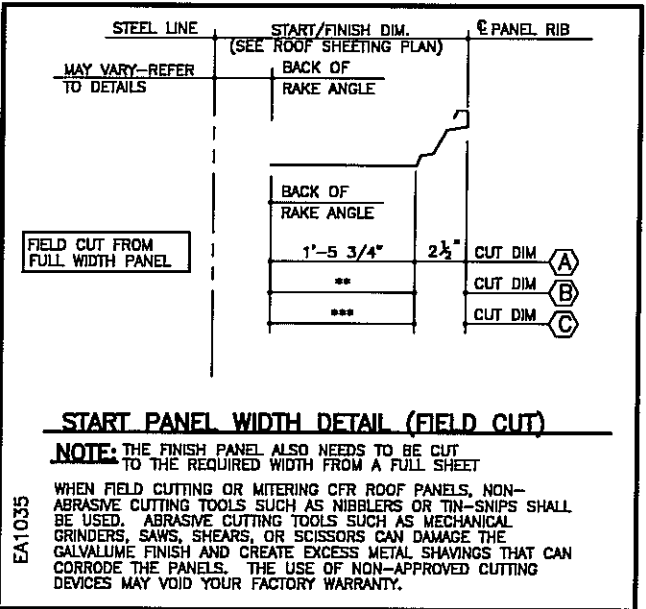
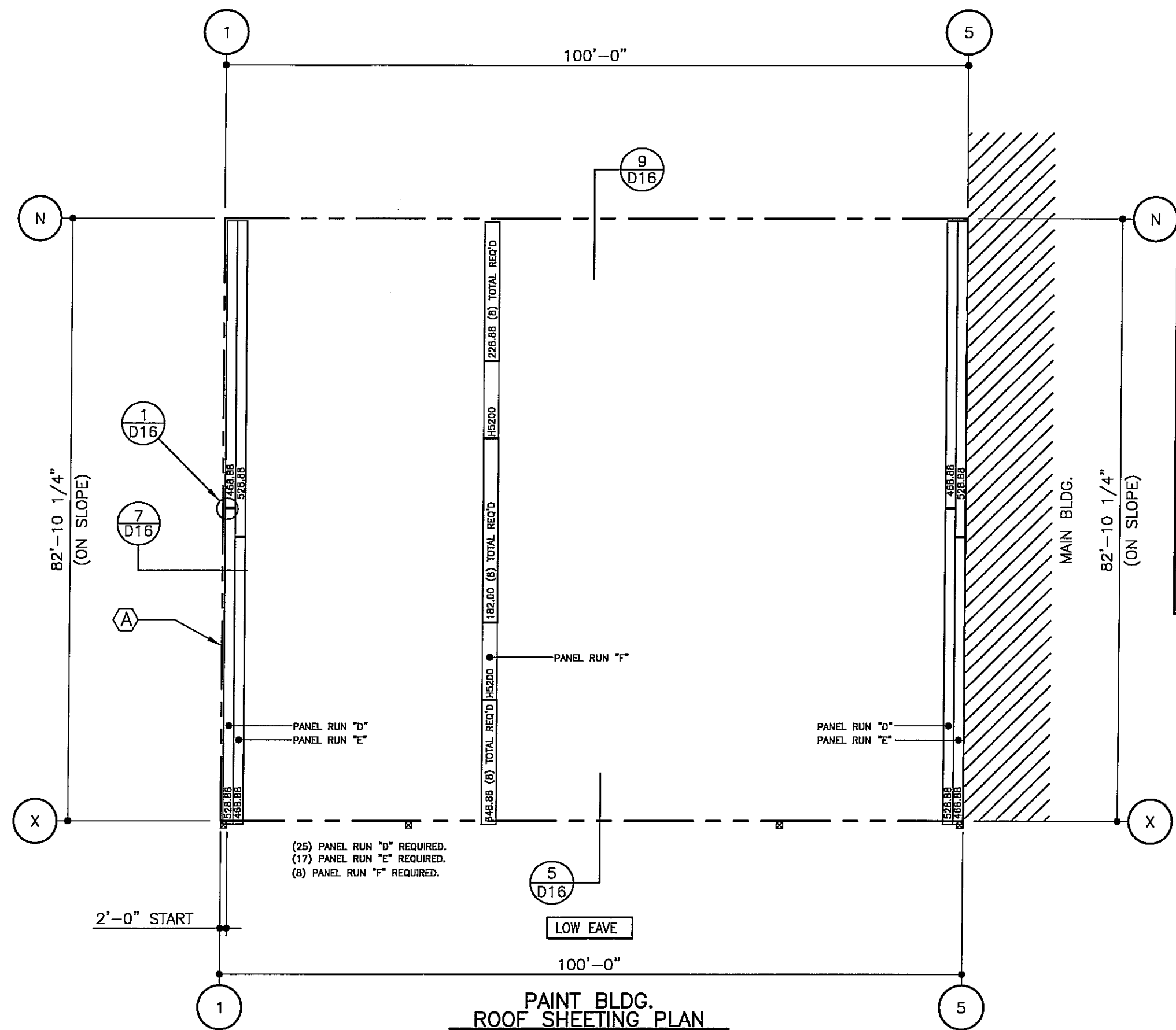
JOB NUMBER: S08A0248A

SHEET NO: E32 of 48



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DOWNSPOUT SCHEDULE				DATE
BUILDING ID	GRID LINE	MAXIMUM SPACING	LOCATIONS	DATE
PAINT	X	25'-0"	4	5/23/08
				5/23/08
				5/23/08
				8/20/08



**NOTE:** THE FINISH PANEL ALSO NEEDS TO BE CUT TO THE REQUIRED WIDTH FROM A FULL SHEET.

WHEN FIELD CUTTING OR MITERING CFR ROOF PANELS, NON-ABRASIVE CUTTING TOOLS SUCH AS NIBBLERS OR TIN-SNIPS SHALL BE USED. ABRASIVE CUTTING TOOLS SUCH AS MECHANICAL GRINDERS, SAWS, SHEARS, OR SCISSORS CAN DAMAGE THE GALVALUME FINISH AND CREATE EXCESS METAL SHAVINGS THAT CAN CORRODE THE PANELS. THE USE OF NON-APPROVED CUTTING DEVICES MAY VOID YOUR FACTORY WARRANTY.

**ERECTOR NOTE:**

THE (8) PANEL RUNS F'S ARE TO REPLACE (8) OF THE PANEL RUN E'S. FIELD LOCATE TRANSLUCENT PANEL RUN AS REQUIRED.

FOR CONSTRUCTION  
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AUG 20 2008

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**PAINT BLDG. ROOF SHEETING PLAN**

PANELS: 24 GA. STANDING SEAM - POLAR WHITE (SILICONE POLYESTER)  
H5200- ROOF TRANSLUCENT PANELS, FIELD LOCATED. SEE SHEET D17 FOR DETAIL.  
SEE SHEET D16 FOR THERMAL BLOCK DETAIL.

**NUCOR BUILDING SYSTEMS**

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SWANSEA, SC 29160  
PHONE: (803) 568-2100  
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PROJECT NAME: OLYMPIC STEEL  
SUMTER, SC  
CUSTOMER: THOMPSON TURNER CONSTRUCTION CO.  
SUMTER, SC

JOB NUMBER: S08A0248A

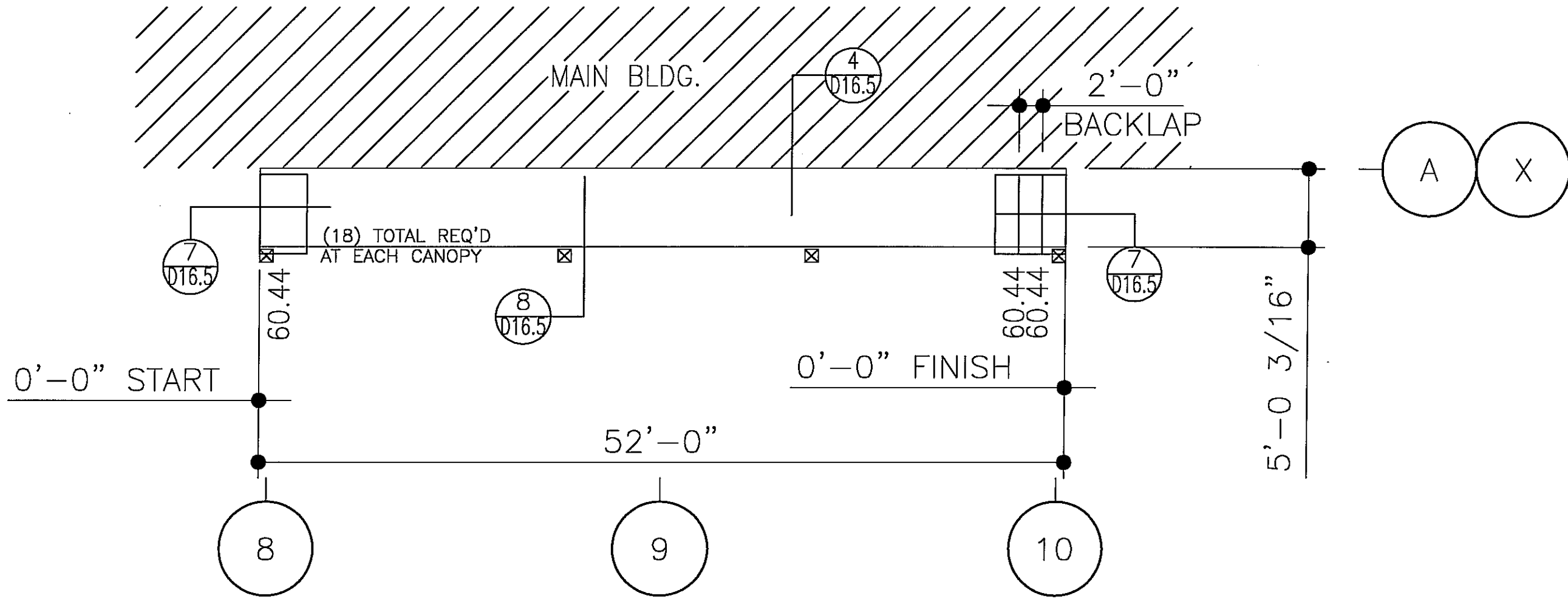
SHEET NO: E33 of 48

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DOWNSPOUT SCHEDULE				DATE	
BUILDING ID	GRID LINE	MAXIMUM SPACING	LOCATIONS	5/23/08	5/23/08
CANOPY	A, X	17'-0"	4		

ISSUE	PERMITS	APPROVALS	CRANE CONFIRMATIONS	FINAL ERECTION



## CANOPY ROOF SHEETING

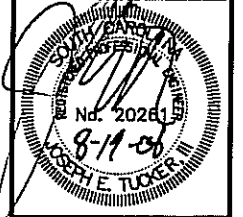
PANELS: 26 GA CLASSIC ROOF - POLAR WHITE

**NUCOR BUILDING SYSTEMS**  
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 SWANSEA, SC 29160  
 PHONE: (803) 568-2100  
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PROJECT NAME: OLYMPIC STEEL  
 SUMTER, SC  
 CUSTOMER: THOMPSON TURNER CONSTRUCTION CO.  
 SUMTER, SC

JOB NUMBER: S08A0248A

SHEET NO: E33.5 of 48

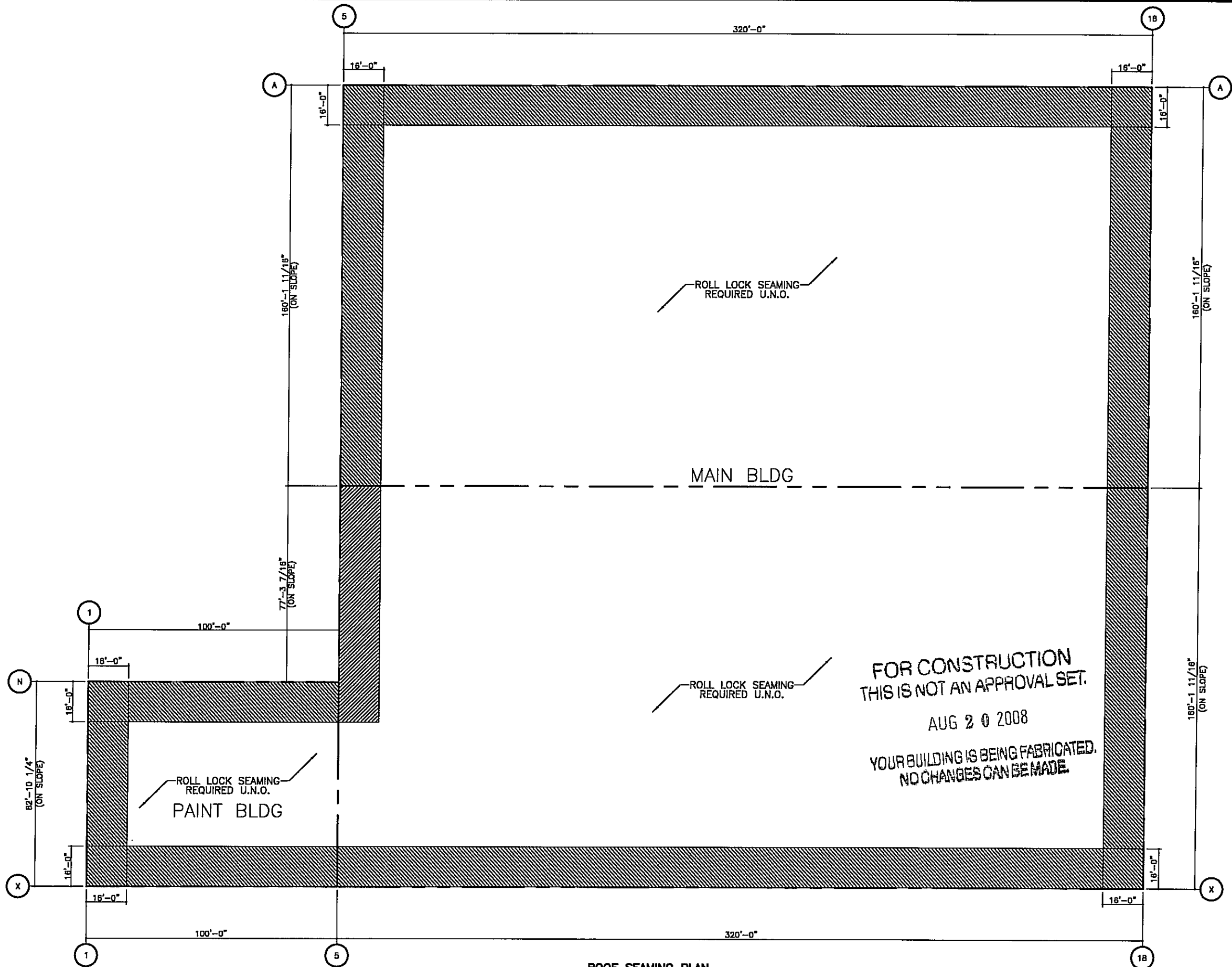


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**ROOF SEAMING PLAN**

- 1)  ROLL LOCK U.N.O.
- 2)  INDICATES VISE LOCK.
- 3)  INDICATES VISE LOCK 380.

ROLL LOCK SEAMING  
REQUIRED U.N.O.

ROLL LOCK SEAMING  
REQUIRED U.N.O.

ROLL LOCK SEAMING  
REQUIRED U.N.O.  
PAINT BLDG

**FOR CONSTRUCTION  
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AUG 20 2008  
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NO CHANGES CAN BE MADE.**

ISSUE	DATE	ENG	P.E.
PERMITS	5/23/08	JET	JET
APPROVALS	5/23/08	JET	JET
CRANE CONFIRMATIONS	5/23/08	JET	JET
FINAL ERECTION	8/20/08	JET	JET

<b>NUCOR BUILDING SYSTEMS</b>	
PO BOX 1006, 200 WHEISTONE RD. SWANSEA, SC 29160	
PHONE: (803) 568-2100 FAX: (803) 568-2121	

PROJECT NAME:	OLYMPIC STEEL
SUMTER, SC	
CUSTOMER:	THOMPSON TURNER CONSTRUCTION CO. SUMTER, SC

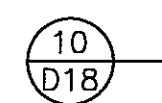
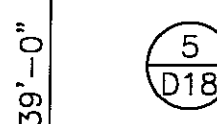
  

JOB NUMBER:	S08A0248A
SHEET NO.:	E34 of 48

THIS SEAL PERTAINS ONLY TO THE MATERIALS DESIGNED AND SUPPLIED BY NUCOR BUILDING SYSTEMS, A DIVISION OF NUCOR CORPORATION. THE DRAWINGS AND THE METAL BUILDING WHICH THEY REPRESENT ARE THE PRODUCT OF NUCOR BUILDING SYSTEMS. THE REGISTERED PROFESSIONAL ENGINEER WHOSE SEAL APPEARS ON THESE DRAWINGS IS EMPLOYED BY NUCOR BUILDING SYSTEMS AND DOES NOT SERVE AS OR REPRESENT THE PROJECT ENGINEER OF RECORD AND SHALL NOT BE CONSTRUED AS SUCH.

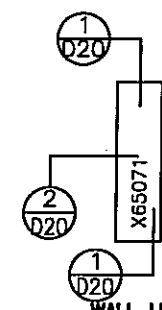
352.00	120.00		
352.00	X65071		13.00
352.00	X65071		13.00
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352.00	X65071		13.00
352.00	X65071		13.00
352.00	X65071		14.50
352.00	X65071		16.00
352.00	X65071		17.50
352.00	X65071		19.00
352.00	X65071		20.50
352.00	X65071		22.00
352.00	X65071		23.50
352.00	X65071		25.00
352.00	X65071		26.50
352.00	X65071		28.00
352.00	X65071		29.50
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352.00	X65071		71.50
352.00	X65071		73.00
352.00	X65071		74.50
352.00	X65071		76.00
352.00	X65071		77.50
352.00	X65071		79.00
352.00	X65071		80.50
352.00	X65071		82.00
352.00	X65071		82.50



237'-2 5/8" TO LINE N

320'-0" O.A.W.

**MAIN BLDG.  
WALL SHEETING AT LINE 5**  
PANELS: 24 GA. CLASSIC WALL - WARM WHITE



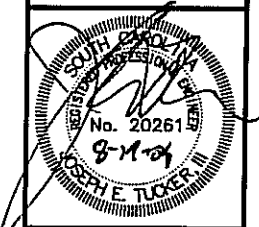
PANELS: X65071 - WALL TRANSLUCENT PANELS (78) TOTAL REQUIRED, THIS WALL.

FOR CONSTRUCTION  
THIS IS NOT AN APPROVAL SET.

AUG 20 2008

YOUR BUILDING IS BEING FABRICATED.  
NO CHANGES CAN BE MADE.

<b>NUCOR BUILDING SYSTEMS</b> PO BOX 1006, 200 WHELISTONE RD. SWANSEA, SC 29160 PHONE: (803) 568-2100 FAX: (803) 568-2121		PROJECT NAME: OLYMPIC STEEL SUMTER, SC CUSTOMER: THOMPSON TURNER CONSTRUCTION CO. SUMTER, SC	JOB NUMBER: S08A0248A	SHEET NO: E35 of 48	PERMITS APPROVALS CRANE CONFIGURATIONS FINAL ERECTION	OWN JH/MS JH/MS JH/MS DB/MS/LB/ML	CHK NDD NDD NDD	ENG JET JET JET JET	P.E. JET JET JET JET	DATE 5/23/08 5/23/08 5/23/08 8/20/08
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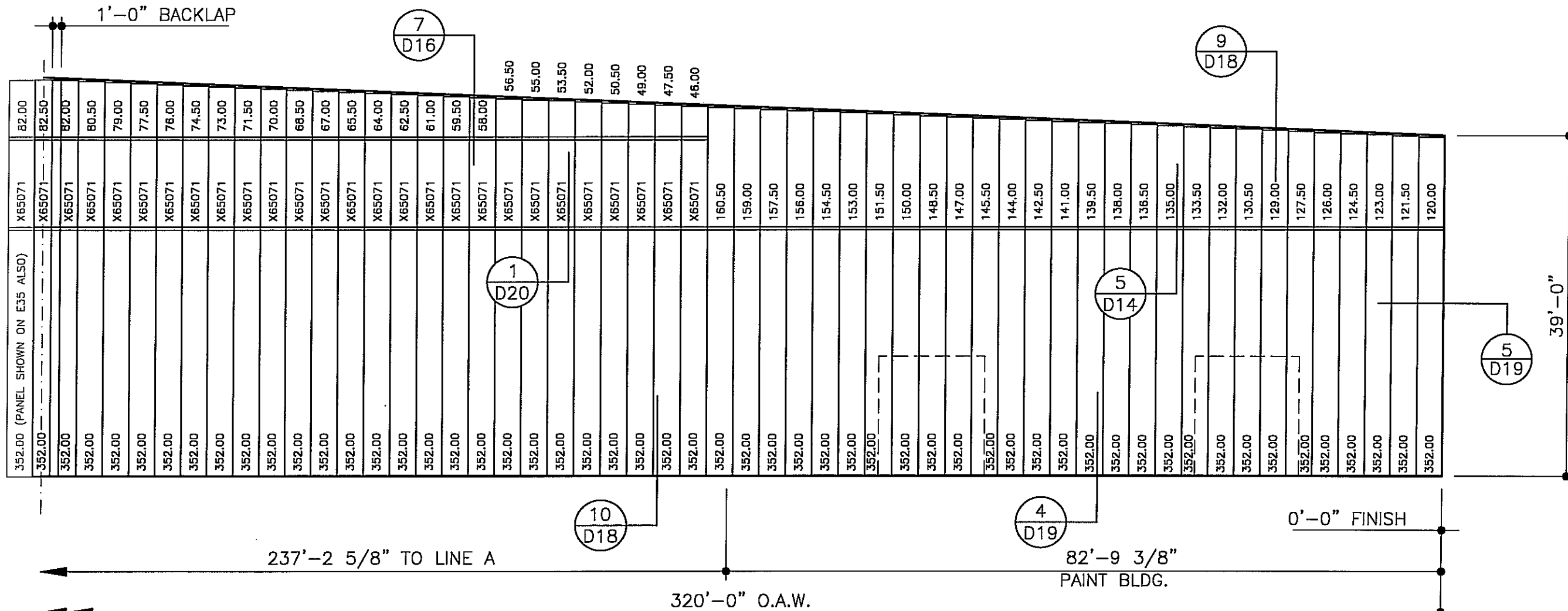


THIS SEAL PERTAINS ONLY TO THE MATERIALS DESIGNED AND SUPPLIED BY NUCOR BUILDING SYSTEMS, A DIVISION OF NUCOR CORPORATION. THE DRAWINGS AND THE METAL BUILDING WHICH THEY REPRESENT ARE THE PRODUCT OF NUCOR BUILDING SYSTEMS. THE REGISTERED PROFESSIONAL ENGINEER WHOSE SEAL APPEARS ON THESE DRAWINGS IS EMPLOYED BY NUCOR BUILDING SYSTEMS AND DOES NOT SERVE AS OR REPRESENT THE PROJECT ENGINEER OF RECORD AND SHALL NOT BE CONSTRUED AS SUCH.

# FRAMED OPENING SCHEDULE

ID NUMBER	QTY	SIZE		TRIM REQUIREMENTS			COVER TRIM REQ'MENTS	
		WIDTH	HEIGHT	JAMB TRIM	HEAD TRIM	SILL TRIM	JAMB TRIM	HEAD TRIM
FIELD	2	14'-0"	14'-0"	JTA05	HTA06	N/A	CCA03	CCA03

DATE	ISSUE	ENG	CHK	DWN
5/23/08	PERMITS	JH/MS	NDD	JET
5/23/08	APPROVALS	JH/MS	NDD	JET
5/23/08	CRANE CONFIRMATIONS	JH/MS	NDD	JET
6/30/08	FINAL ERECTION	DB/MS/LB/NI	JET	JET

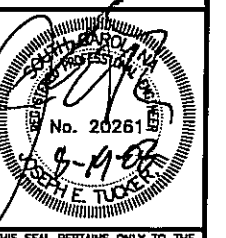


**NUCOR BUILDING SYSTEMS**  
 PO BOX 1006, 200 WHETSTONE RD.  
 SWANSEA, SC 29160  
 PHONE: (803) 568-2100  
 FAX: (803) 568-2121

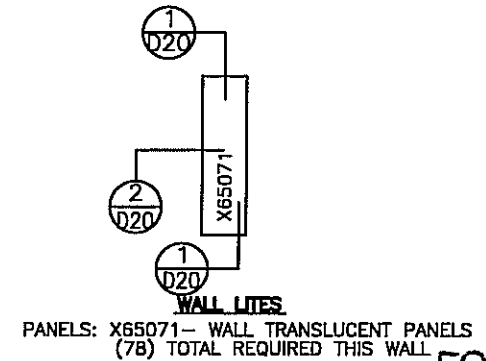
PROJECT NAME: OLYMPIC STEEL  
 SUMTER, SC  
 CUSTOMER: THOMPSON TURNER CONSTRUCTION CO.  
 SUMTER, SC

JOB NUMBER: S08A0248A

SHEET NO: E36 of 48



**MAIN BLDG. WALL SHEETING AT LINE 5**  
 PANELS: 24 GA. CLASSIC WALL - WARM WHITE  
 FIELD WORK PANELS AS REQUIRED



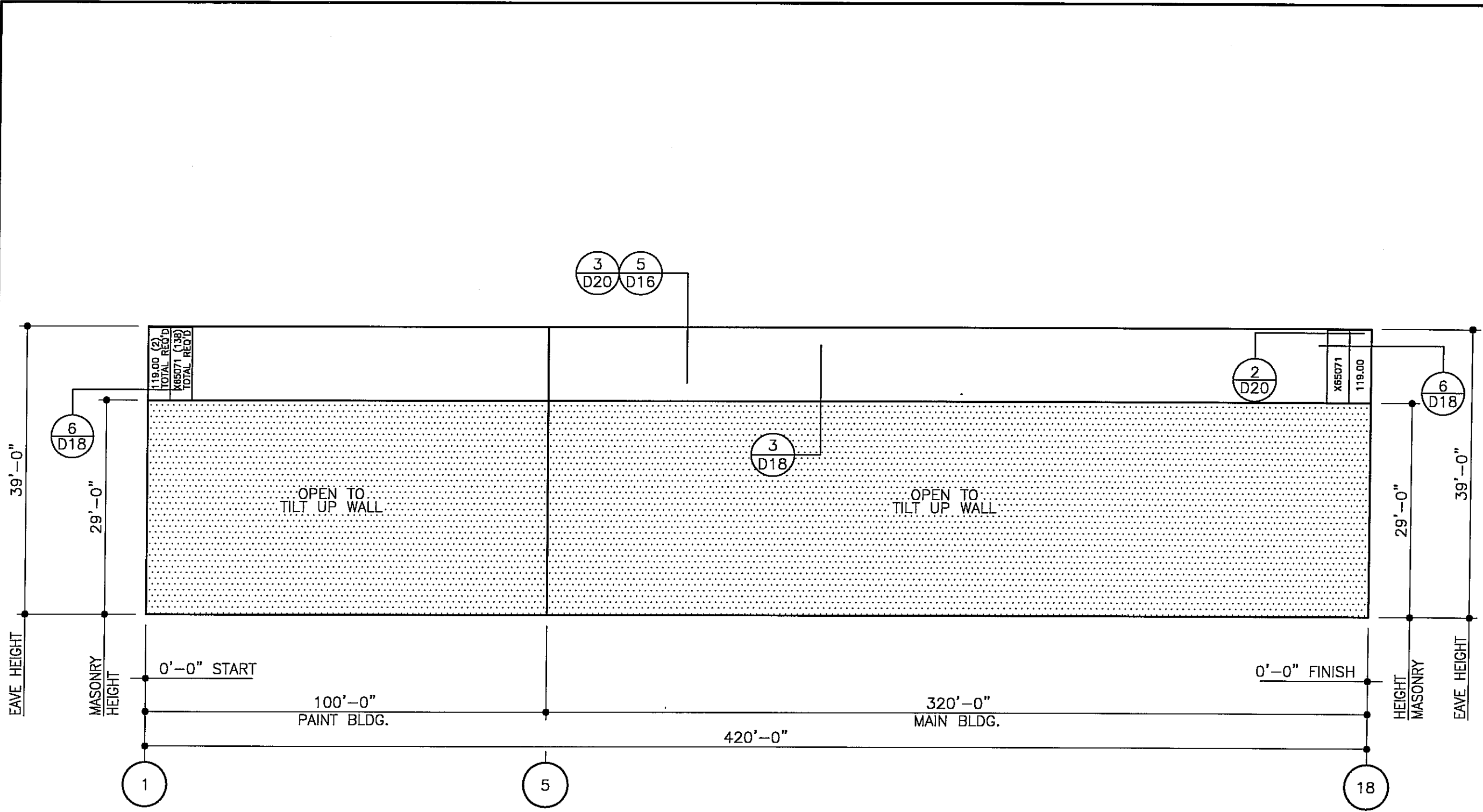
**FOR CONSTRUCTION THIS IS NOT AN APPROVAL SET.**

AUG 20 2008

**YOUR BUILDING IS BEING FABRICATED. NO CHANGES CAN BE MADE.**

- ERECTOR NOTES**
- 1.) FIELD CUT PANELS AROUND OPENINGS AS REQUIRED.
  - 2.) I.D. NUMBER FIELD;  
(AN I.D. NUMBER INDICATES A FACTORY LOCATED OPENING. SEE WALL ELEVATIONS.)  
(THE WORD "FIELD" INDICATES A FIELD LOCATED OPENING)
  - 3.) SEE SHEET D23 FOR NUCOR STANDARD DOOR ERECTION DETAIL.
  - 4.) SEE SHEET D19 FOR CHANNEL COVER DETAIL. (COVER TRIM)

THIS SEAL PERTAINS ONLY TO THE MATERIALS DESIGNED AND SUPPLIED BY NUCOR BUILDING SYSTEMS, A DIVISION OF NUCOR CORPORATION. THE DRAWINGS AND THE METAL BUILDING WHICH THEY REPRESENT ARE THE PRODUCT OF NUCOR BUILDING SYSTEMS. THE REGISTERED PROFESSIONAL ENGINEER WHOSE SEAL APPEARS ON THESE DRAWINGS IS EMPLOYED BY NUCOR BUILDING SYSTEMS AND DOES NOT SERVE AS OR REPRESENT THE PROJECT ENGINEER OF RECORD AND SHALL NOT BE CONSTRUED AS SUCH.



**WALL SHEETING AT LINE X**  
 PANELS: 24 GA. CLASSIC WALL - WARM WHITE

FOR CONSTRUCTION  
 THIS IS NOT AN APPROVAL SET.

AUG 20 2008

YOUR BUILDING IS BEING FABRICATED.  
 NO CHANGES CAN BE MADE

ISSUE	OWN	CHK	ENG	P.E.	DATE
PERMITS	JH/MS	NDD	JET	JET	5/23/08
APPROVALS	JH/MS	NDD	JET	JET	5/23/08
CRANE CONFIRMATIONS	JH/MS	NDD	JET	JET	5/23/08
FINAL ERECTION	DB/MS/DJ/AL	JCT			8/20/08

**NUCOR BUILDING SYSTEMS**  
 PO BOX 1006, 200 WHELISTONE RD.  
 SWANSEA, SC 29160  
 PHONE: (803) 568-2100  
 FAX: (803) 568-2121

PROJECT NAME:  
 OLYMPIC STEEL  
 SUMTER, SC  
 CUSTOMER:  
 THOMPSON TURNER CONSTRUCTION CO.  
 SUMTER, SC

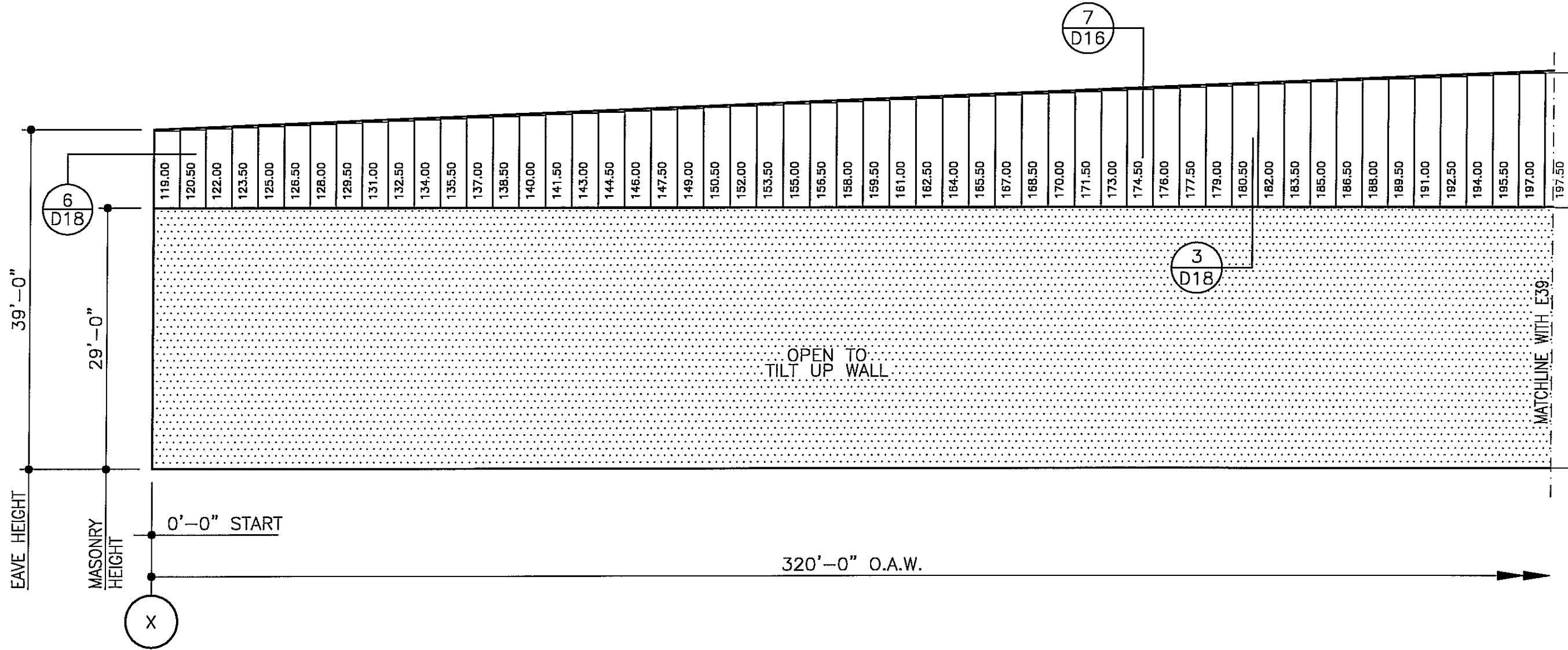
JOB NUMBER:  
 S08A0248A

SHEET NO:  
 E37 of 48



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**MAIN BLDG.  
WALL SHEETING AT LINE 18**  
PANELS: 24 GA. CLASSIC WALL - CYPRESS GREEN

FOR CONSTRUCTION  
THIS IS NOT AN APPROVAL SET.

AUG 20 2008

YOUR BUILDING IS BEING FABRICATED.  
NO CHANGES CAN BE MADE

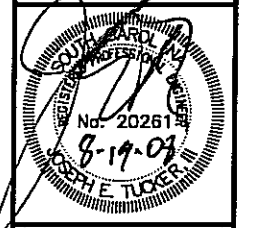
ISSUE	DATE	ENG	P.E.
PERMITS	5/23/08	JET	JET
APPROVALS	5/23/08	JET	JET
CRANE CONFIRMATIONS	5/23/08	JET	JET
FINAL ERECTION	8/20/08	JET	JET

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PO BOX 1006, 200 WHELSTONE RD.  
SWANSEA, SC 29160  
PHONE: (803) 568-2100  
FAX: (803) 568-2121

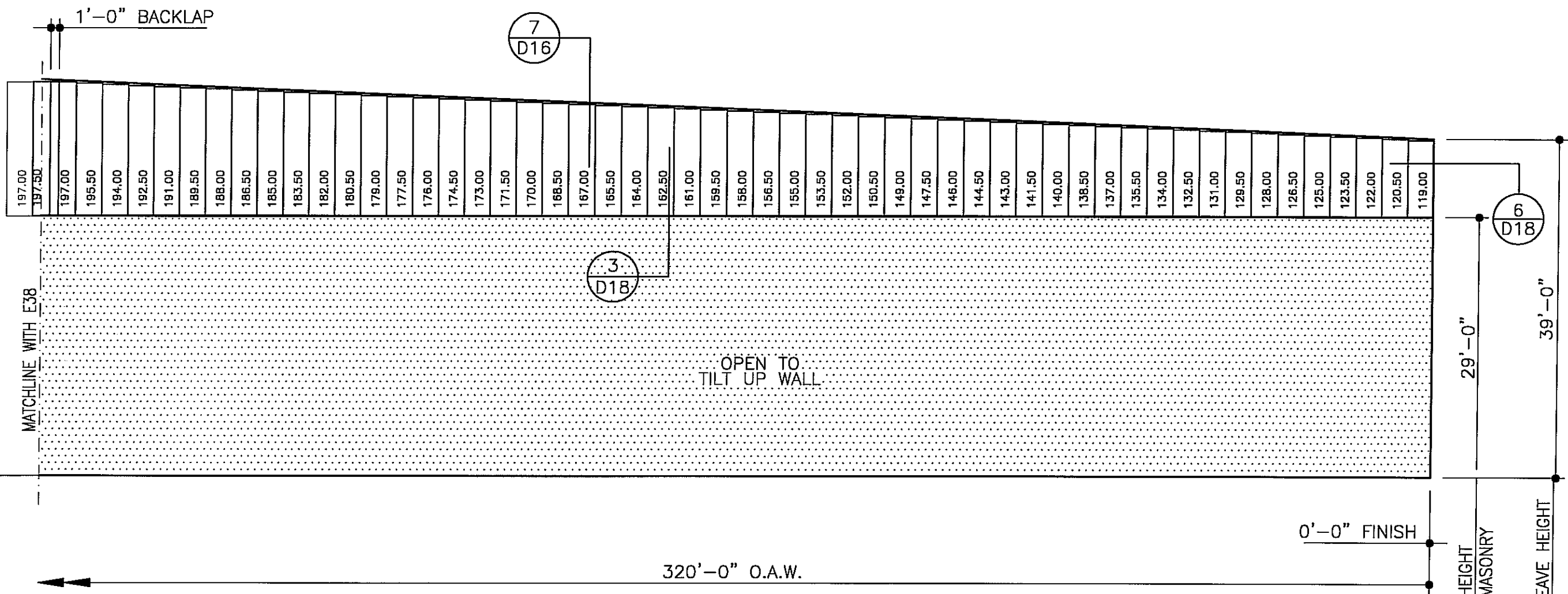
PROJECT NAME: OLYMPIC STEEL  
SUMTER, SC  
CUSTOMER: THOMPSON TURNER CONSTRUCTION CO.  
SUMTER, SC

JOB NUMBER: S08A0248A

SHEET NO: E38 of 48



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1'-0" BACKLAP

7  
D16

3  
D18

6  
D18

A

MATCHLINE WITH E38

OPEN TO  
TILT UP WALL

29'-0"

39'-0"

0'-0" FINISH

HEIGHT  
MASONRY

EAVE HEIGHT

320'-0" O.A.W.

MAIN BLDG.  
WALL SHEETING AT LINE 18  
PANELS: 24 GA. CLASSIC WALL - CYPRESS GREEN

FOR CONSTRUCTION  
THIS IS NOT AN APPROVAL SET.

AUG 20 2008

YOUR BUILDING IS BEING FABRICATED.  
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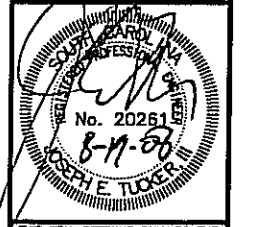
ISSUE	DWN	CHK	ENG	P.E.	DATE
PERMITS	JH/MS	NDD	JET	JET	5/23/08
APPROVALS	JH/MS	NDD	JET	JET	5/23/08
CRANE CONFIRMATIONS	JH/MS	NDD	JET	JET	5/23/08
FINAL ERECTION	DB/MS/LB/NL	JCT			8/20/08

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PO BOX 1006, 200 WHELISTONE RD.  
SWANSEA, SC 29160  
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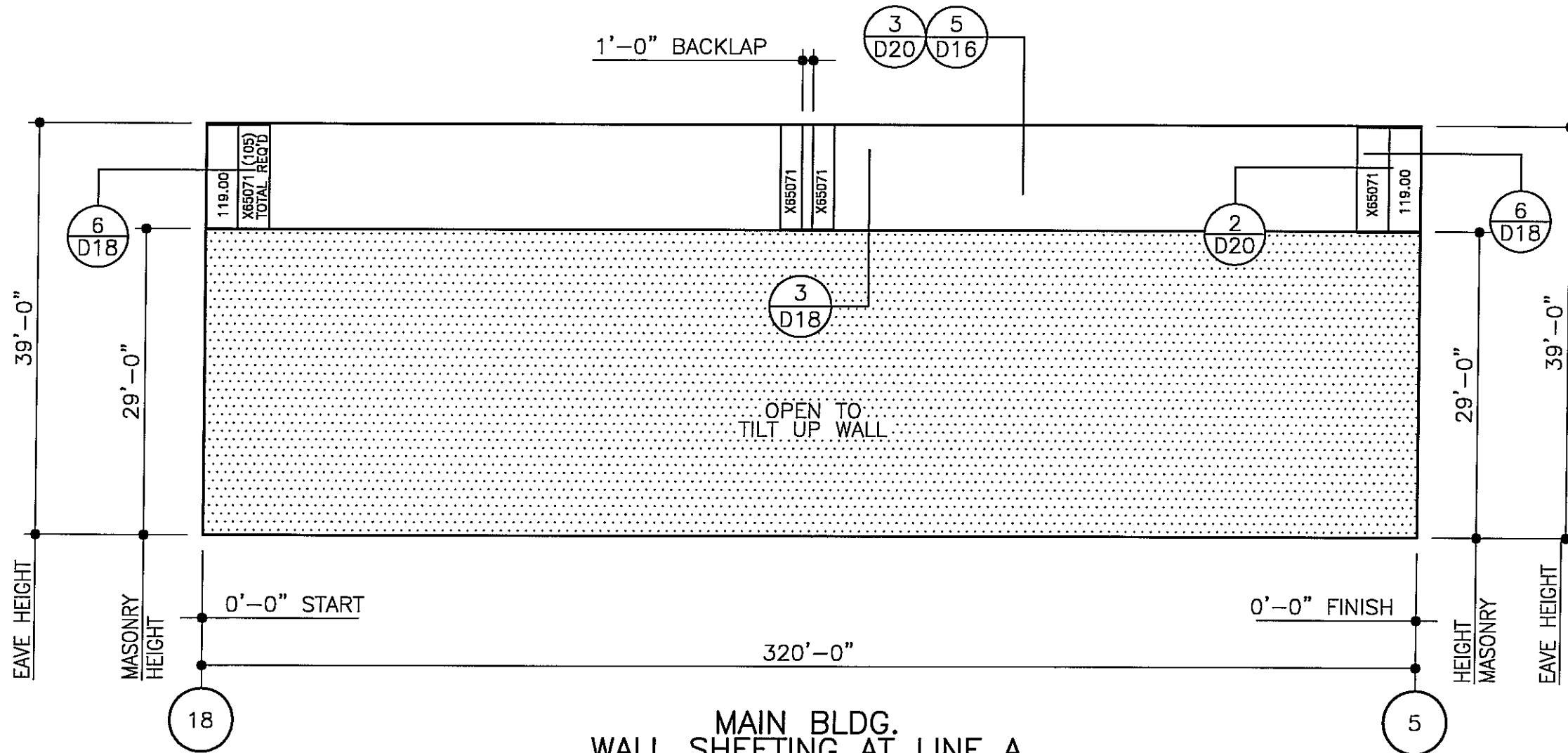
PROJECT NAME:  
OLYMPIC STEEL  
SUMTER, SC  
CUSTOMER:  
THOMPSON TURNER CONSTRUCTION CO.  
SUMTER, SC

JOB NUMBER:  
S08A0248A

SHEET NO:  
E39 of 48



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MAIN BLDG.  
WALL SHEETING AT LINE A  
 PANELS: 24 GA. CLASSIC WALL - WARM WHITE

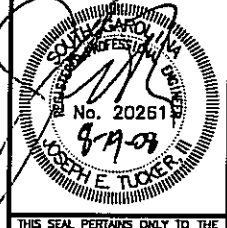
ISSUE	DATE	P.E.	ENG.	CHK.	DWN.
PERMITS	5/23/08	JET	JET	JH/MS	JH/MS
APPROVALS	5/23/08	JET	JET	JH/MS	JH/MS
CRANE CONFIRMATIONS	5/23/08	JET	JET	JH/MS	JH/MS
FINAL ERECTION	8/20/08	JET	JET	DB/MS/LB/AL	DB/MS/LB/AL

**NUCOR BUILDING SYSTEMS**  
 PO BOX 1006, 200 WHELTSTONE RD.  
 SWANSEA, SC 29160  
 PHONE: (803) 568-2100  
 FAX: (803) 568-2121

PROJECT NAME: OLYMPIC STEEL  
 SUMTER, SC  
 CUSTOMER: THOMPSON TURNER CONSTRUCTION CO.  
 SUMTER, SC

JOB NUMBER: S08A0248A

SHEET NO: E40 of 48



FOR CONSTRUCTION  
 THIS IS NOT AN APPROVAL SET.

AUG 20 2008

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 NO CHANGES CAN BE MADE.

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FRAMED OPENING SCHEDULE

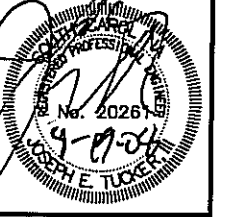
ID NUMBER	QTY	SIZE		TRIM REQUIREMENTS			COVER TRIM REQ'MENTS	
		WIDTH	HEIGHT	JAMB TRIM	HEAD TRIM	SILL TRIM	JAMB TRIM	HEAD TRIM
FIELD 1	1	14'-0"	14'-0"	JTA05	HTA06	N/A	CCA03	CCA01
FIELD 2	2	10'-0"	14'-0"	JTA05	HTA04	N/A	CCA03	CCA03

DATE	ISSUE	PERMITS	APPROVALS	CRANE CONFIRMATIONS	FINAL ERECTION
5/23/08		JET	JET	JET	JET
5/23/08		JET	JET	JET	JET
5/23/08		JET	JET	JET	JET
8/20/08		JET	JET	JET	JET

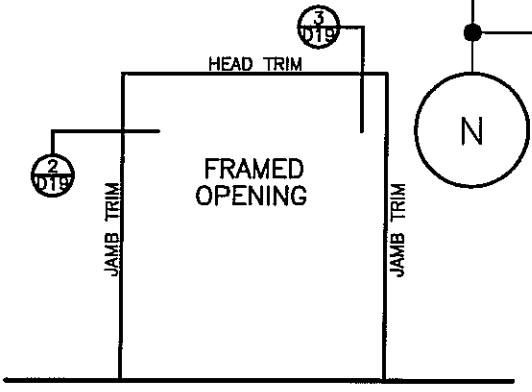
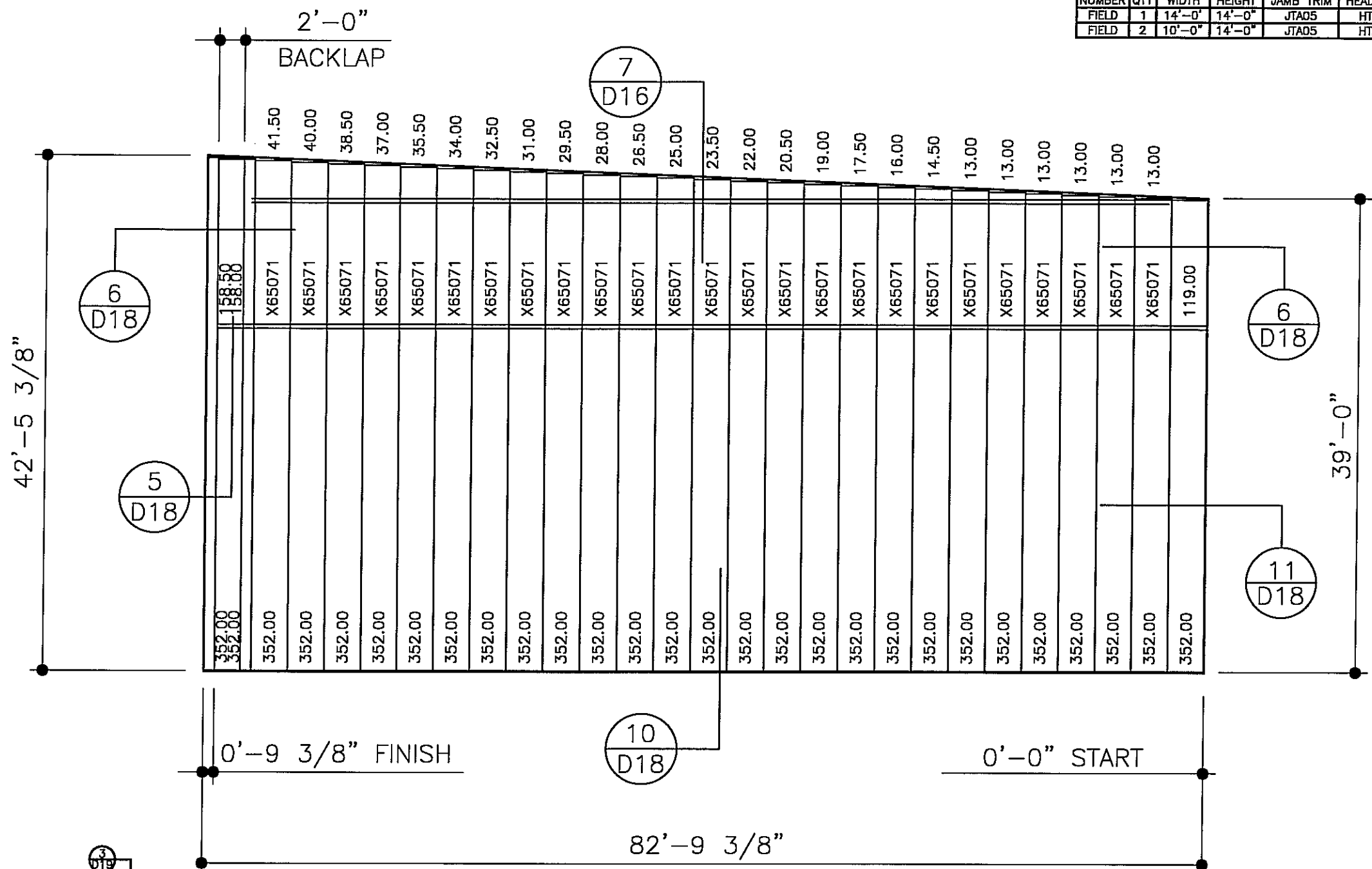
**NUCOR BUILDING SYSTEMS**  
 PO BOX 1006, 200 WHELSTONE RD.  
 SWANSEA, SC 29160  
 PHONE: (803) 568-2100  
 FAX: (803) 568-2121

PROJECT NAME: OLYMPIC STEEL  
 SUMTER, SC  
 CUSTOMER: THOMPSON TURNER CONSTRUCTION CO.  
 SUMTER, SC

JOB NUMBER: S08A0248A  
 SHEET NO: E41 of 48

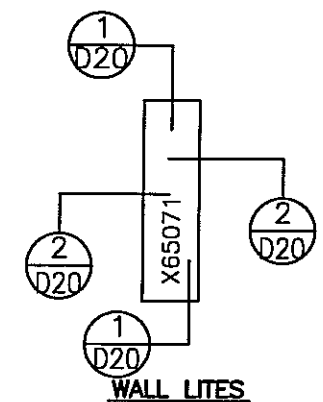


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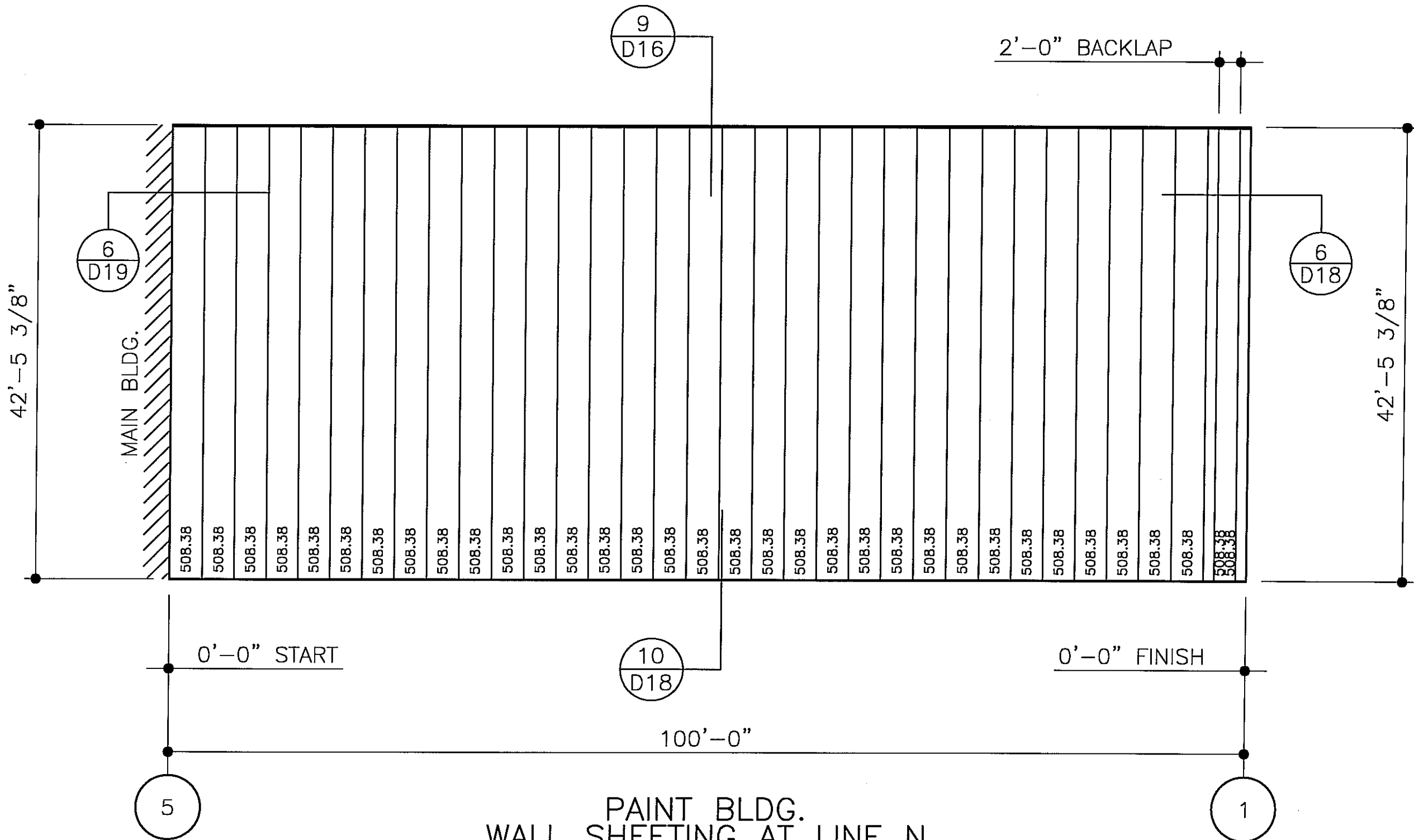
**PAINT BLDG.  
 WALL SHEETING AT LINE 1**  
 PANELS: 24 GA. CLASSIC WALL - WARM WHITE

**FOR CONSTRUCTION  
 THIS IS NOT AN APPROVAL SET.**  
 AUG 20 2008  
**YOUR BUILDING IS BEING FABRICATED.  
 NO CHANGES CAN BE MADE.**



**WALL LITES**  
 PANELS: X65071 - WALL TRANSLUCENT PANELS (25) TOTAL REQUIRED THIS WALL

- ERECTOR NOTES**
- 1.) FIELD CUT PANELS AROUND OPENINGS AS REQUIRED.
  - 2.) I.D. NUMBER FIELD;  
 (AN I.D. NUMBER INDICATES A FACTORY LOCATED OPENING. SEE WALL ELEVATIONS.)  
 (THE WORD "FIELD" INDICATES A FIELD LOCATED OPENING)
  - 3.) SEE SHEET D23 FOR NUCOR STANDARD DOOR ERECTION DETAIL.
  - 4.) SEE SHEET D19 FOR CHANNEL COVER DETAIL. (COVER TRIM)



**PAINT BLDG.  
WALL SHEETING AT LINE N**  
PANELS: 24 GA. CLASSIC WALL - WARM WHITE

**FOR CONSTRUCTION  
THIS IS NOT AN APPROVAL SET.**

AUG 20 2008

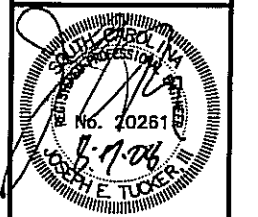
**YOUR BUILDING IS BEING FABRICATED.  
NO CHANGES CAN BE MADE.**

ISSUE	PERMITS	APPROVALS	CRANE CONFIRMATIONS	FINAL ERECTION	OWN	CHK	ENG	P.E.	DATE
					JH/MS	NDD	JET	JET	5/23/08
					JH/MS	NDD	JET	JET	5/23/08
					JH/MS	NDD	JET	JET	5/23/08
					DB/MS	NL/JT	JT		8/20/08

**NUCOR BUILDING SYSTEMS**  
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SWANSEA, SC 29160  
PHONE: (803) 568-2100  
FAX: (803) 568-2121

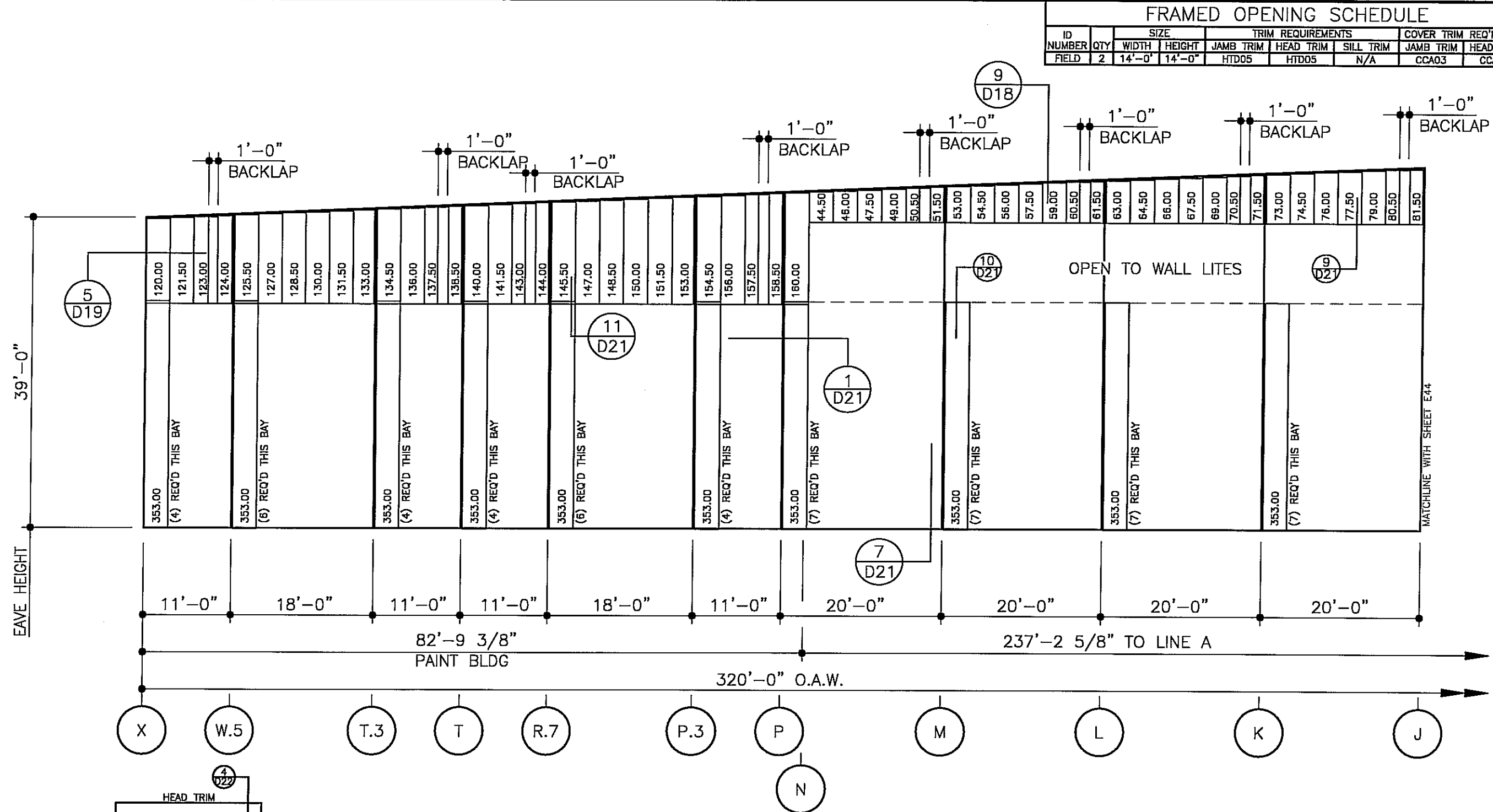
PROJECT NAME: OLYMPIC STEEL  
SUMTER, SC  
CUSTOMER: THOMPSON TURNER CONSTRUCTION CO.  
SUMTER, SC

JOB NUMBER: S08A0248A  
SHEET NO: E42 of 48



THIS SEAL PERTAINS ONLY TO THE MATERIALS DESIGNED AND SUPPLIED BY NUCOR BUILDING SYSTEMS, A DIVISION OF NUCOR CORPORATION. THE DRAWINGS AND THE METAL BUILDING WHICH THEY REPRESENT ARE THE PRODUCT OF NUCOR BUILDING SYSTEMS. THE REGISTERED PROFESSIONAL ENGINEER WHOSE SEAL APPEARS ON THESE DRAWINGS IS EMPLOYED BY NUCOR BUILDING SYSTEMS AND DOES NOT SERVE AS OR REPRESENT THE PROJECT ENGINEER OF RECORD AND SHALL NOT BE CONSTRUED AS SUCH.

ID NUMBER	QTY	SIZE		TRIM REQUIREMENTS			COVER TRIM REQ'MENTS	
		WIDTH	HEIGHT	JAMB TRIM	HEAD TRIM	SILL TRIM	JAMB TRIM	HEAD TRIM
FIELD	2	14'-0"	14'-0"	HTD05	HTD05	N/A	CCA03	CCA03



**MAIN BLDG  
LINER PANEL AT LINE 5**  
PANELS: 28 GA. CLASSIC LINER - POLAR WHITE

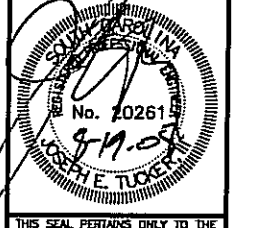
DATE	P.E.	ENG.	CHK.	DWN.	ISSUE	
					PERMITS	APPROVALS
5/23/08	JE	JE	JE	JH/MS	NDD	JE
5/23/08	JE	JE	JE	JH/MS	NDD	JE
5/23/08	JE	JE	JE	JH/MS	NDD	JE
8/20/08	JE	JE	JE	DB/MS/DJ/AL	NDD	JE

**NUCOR BUILDING SYSTEMS**  
PO BOX 1006, 200 WHELSTONE RD.  
SWANSEA, SC 29160  
PHONE: (803) 568-2100  
FAX: (803) 568-2121

PROJECT NAME: OLYMPIC STEEL  
SUMMER, SC  
CUSTOMER: THOMPSON TURNER CONSTRUCTION CO.  
SUMMER, SC

JOB NUMBER: S08A0248A

SHEET NO: E43 of 48



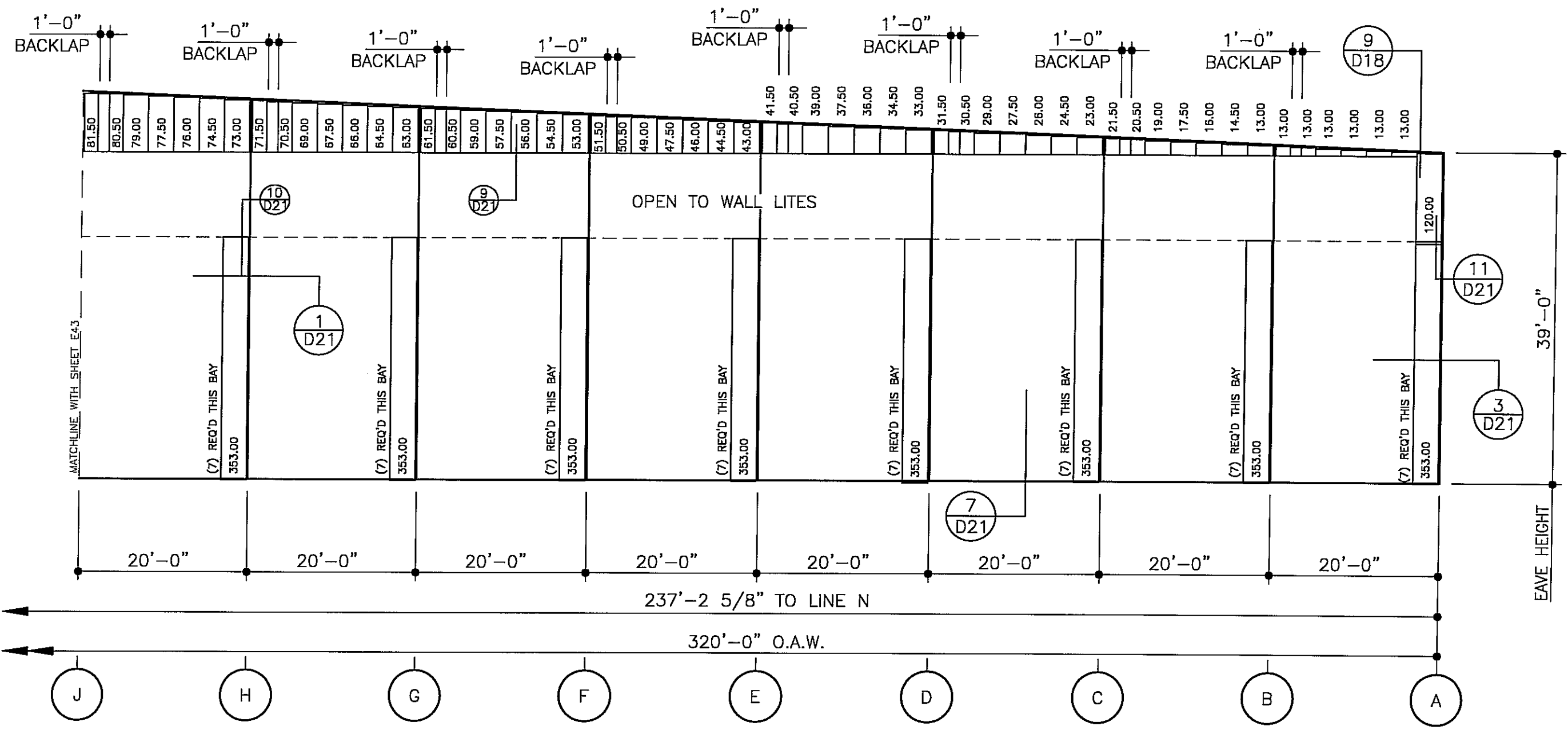
**FOR CONSTRUCTION  
THIS IS NOT AN APPROVAL SET.**

AUG 20 2008

**YOUR BUILDING IS BEING FABRICATED.  
NO CHANGES CAN BE MADE.**

- ERECTOR NOTES**
- 1.) FIELD CUT PANELS AROUND OPENINGS AS REQUIRED.
  - 2.) I.D. NUMBER FIELD;  
(AN I.D. NUMBER INDICATES A FACTORY LOCATED OPENING. SEE WALL ELEVATIONS.)  
(THE WORD "FIELD" INDICATES A FIELD LOCATED OPENING)
  - 3.) SEE SHEET D23 FOR NUCOR STANDARD DOOR ERECTION DETAIL
  - 4.) SEE SHEET D19 FOR CHANNEL COVER DETAIL. (COVER TRIM)

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**MAIN BLDG  
LINER PANEL AT LINE 5**  
PANELS: 28 GA. CLASSIC LINER - POLAR WHITE

**FOR CONSTRUCTION  
THIS IS NOT AN APPROVAL SET.**

AUG 20 2008

**YOUR BUILDING IS BEING FABRICATED.  
NO CHANGES CAN BE MADE.**

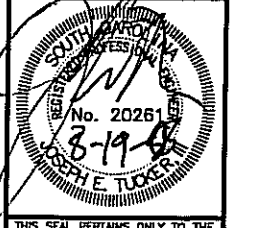
ISSUE	DATE	ENG	P.E.
PERMITS	5/23/08	JH/JET	JH/JET
APPROVALS	5/23/08	JH/JET	JH/JET
CRANE CONFIRMATIONS	5/23/08	JH/JET	JH/JET
FINAL ERECTION	8/20/08	DB/MSL/HL	JH/JET

**NUCOR BUILDING SYSTEMS**  
PO BOX 1006, 200 WHELSTONE RD.  
SWANSEA, SC 29160  
PHONE: (803) 568-2100  
FAX: (803) 568-2121

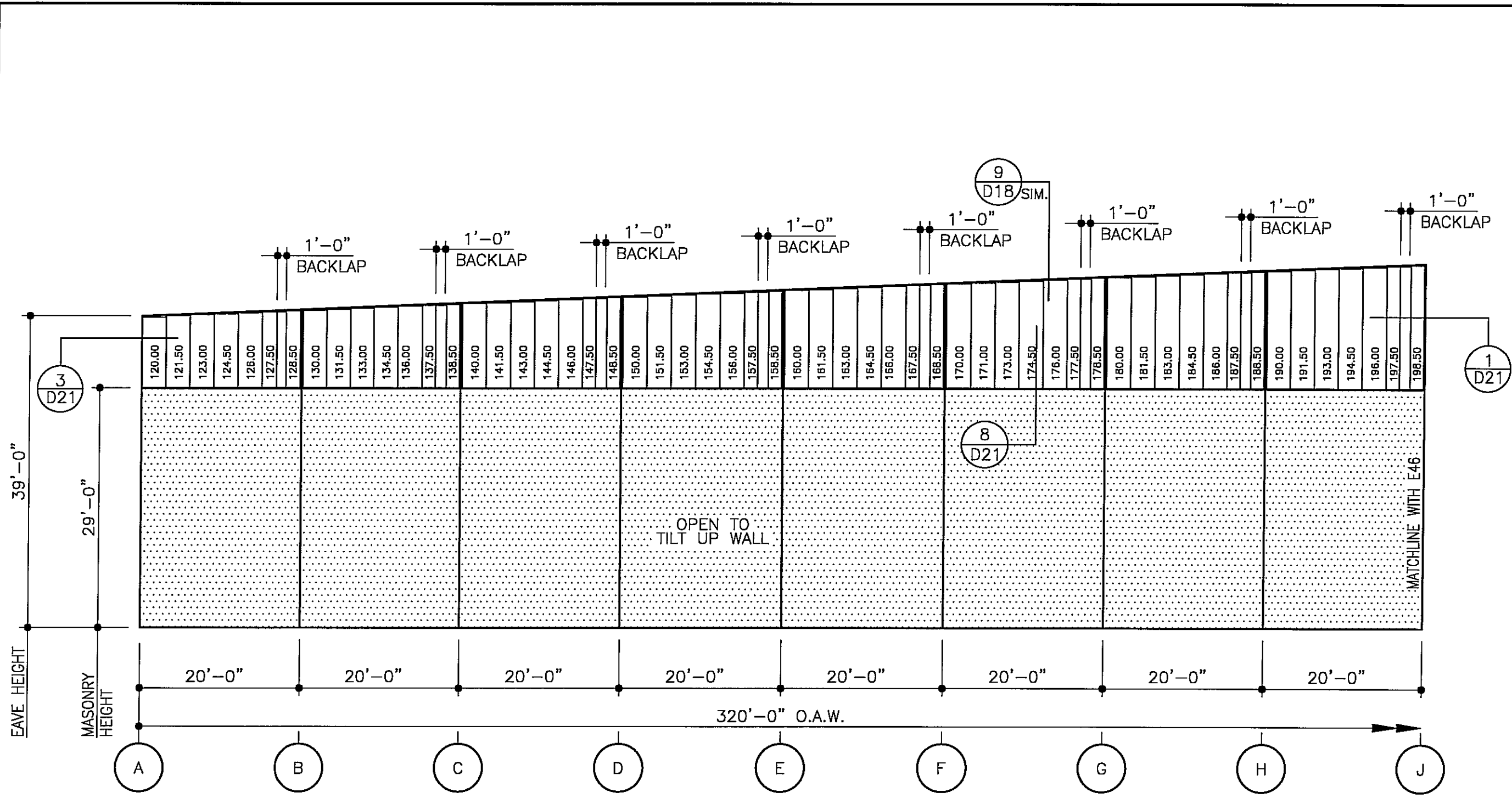
PROJECT NAME: OLYMPIC STEEL  
SUMTER, SC  
CUSTOMER: THOMPSON TURNER CONSTRUCTION CO.  
SUMTER, SC

JOB NUMBER: S08A0248A

SHEET NO: E44 of 48



THIS SEAL PERTAINS ONLY TO THE MATERIALS DESIGNED AND SUPPLIED BY NUCOR BUILDING SYSTEMS, A DIVISION OF NUCOR CORPORATION. THE DRAWINGS AND THE METAL BUILDING WHICH THEY REPRESENT ARE THE PRODUCT OF NUCOR BUILDING SYSTEMS. THE REGISTERED PROFESSIONAL ENGINEER WHOSE SEAL APPEARS ON THESE DRAWINGS IS EMPLOYED BY NUCOR BUILDING SYSTEMS AND DOES NOT SERVE AS OR REPRESENT THE PROJECT ENGINEER OF RECORD AND SHALL NOT BE CONSTRUED AS SUCH.



**MAIN BLDG  
LINER PANEL AT LINE 18**  
PANELS: 28 GA. CLASSIC LINER - POLAR WHITE

FOR CONSTRUCTION  
THIS IS NOT AN APPROVAL SET.  
  
AUG 20 2008  
  
YOUR BUILDING IS BEING FABRICATED.  
NO CHANGES CAN BE MADE.

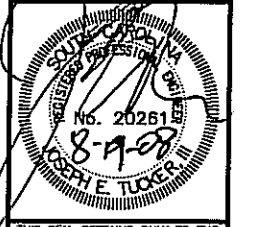
ISSUE	DATE	ENG	P.E.
PERMITS	5/23/08	JET	JET
APPROVALS	5/23/08	JET	JET
CRANE CONFIRMATIONS	5/23/08	JET	JET
FINAL ERECTION	8/20/08	JET	JET

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PO BOX 1006, 200 WHEATSTONE RD.  
SWANSEA, SC 29160  
PHONE: (803) 568-2100  
FAX: (803) 568-2121

PROJECT NAME: OLYMPIC STEEL  
SUMTER, SC  
CUSTOMER: THOMPSON TURNER CONSTRUCTION CO.  
SUMTER, SC

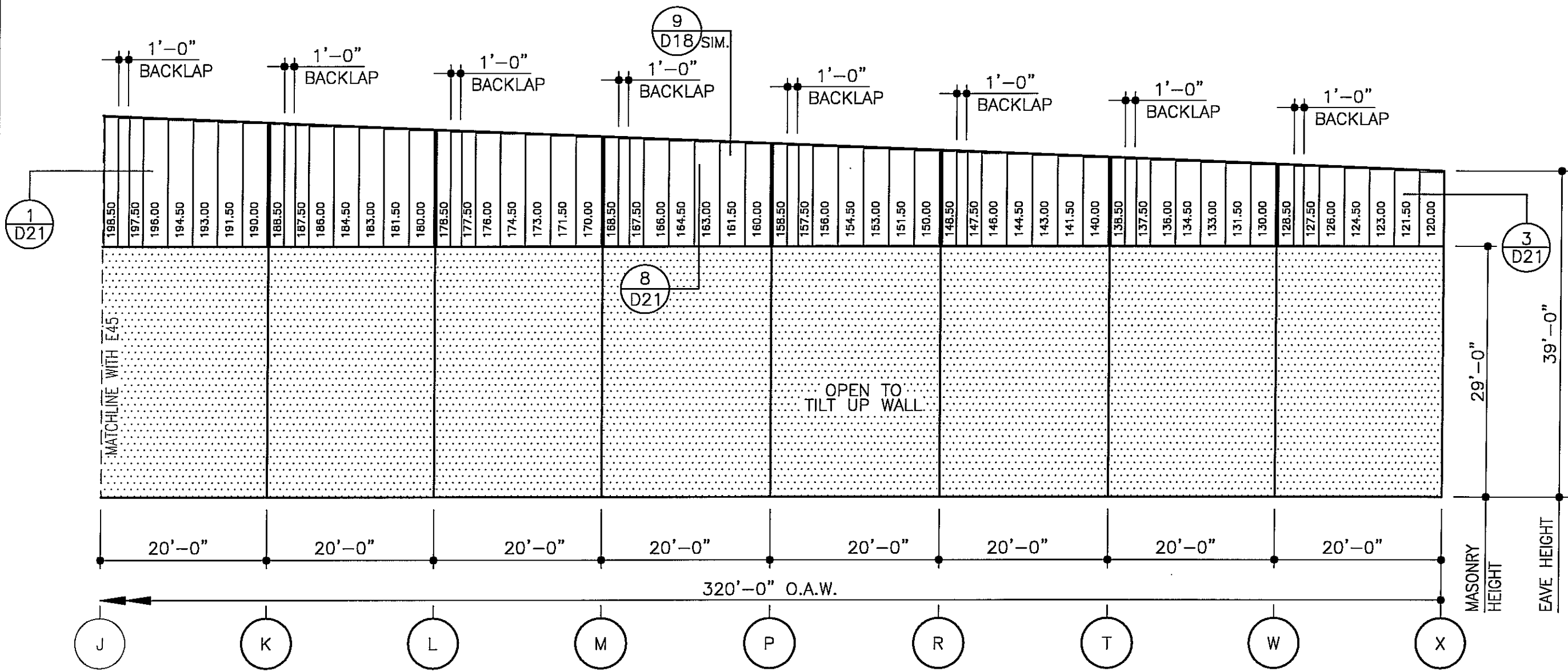
JOB NUMBER: S08A0248A

SHEET NO: E45 of 48



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MAIN BLDG  
 LINER PANEL AT LINE 18  
 PANELS: 28 GA. CLASSIC LINER - POLAR WHITE

FOR CONSTRUCTION  
 THIS IS NOT AN APPROVAL SET.

AUG 20 2008

YOUR BUILDING IS BEING FABRICATED.  
 NO CHANGES CAN BE MADE.

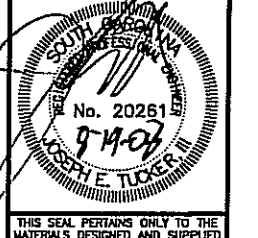
ISSUE	DATE	P.E.	ENG.	CHK.	DWN.
PERMITS	5/23/08	JET	JET	JET	JH/MS
APPROVALS	5/23/08	JET	JET	JET	JH/MS
CRANE CONFORMATIONS	5/23/08	JET	JET	JET	JH/MS
FINAL ERECTION	8/20/08	JET	JET	JET	DB/MSL/AL

**NUCOR BUILDING SYSTEMS**  
 PO BOX 1006, 200 WHEISTONE RD.  
 SWANSEA, SC 29160  
 PHONE: (803) 568-2100  
 FAX: (803) 568-2121

PROJECT NAME:  
 OLYMPIC STEEL  
 SUMTER, SC  
 CUSTOMER:  
 THOMPSON TURNER CONSTRUCTION CO.  
 SUMTER, SC

JOB NUMBER:  
 S08A0248A

SHEET NO:  
 E46 of 48

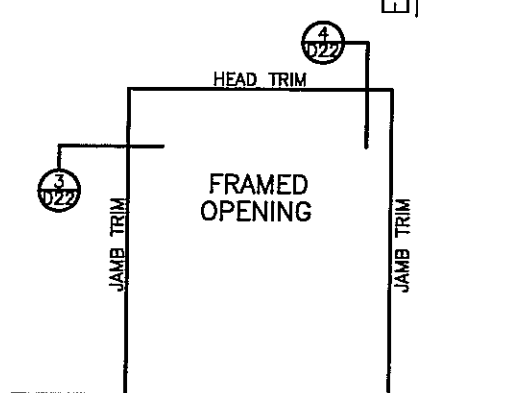
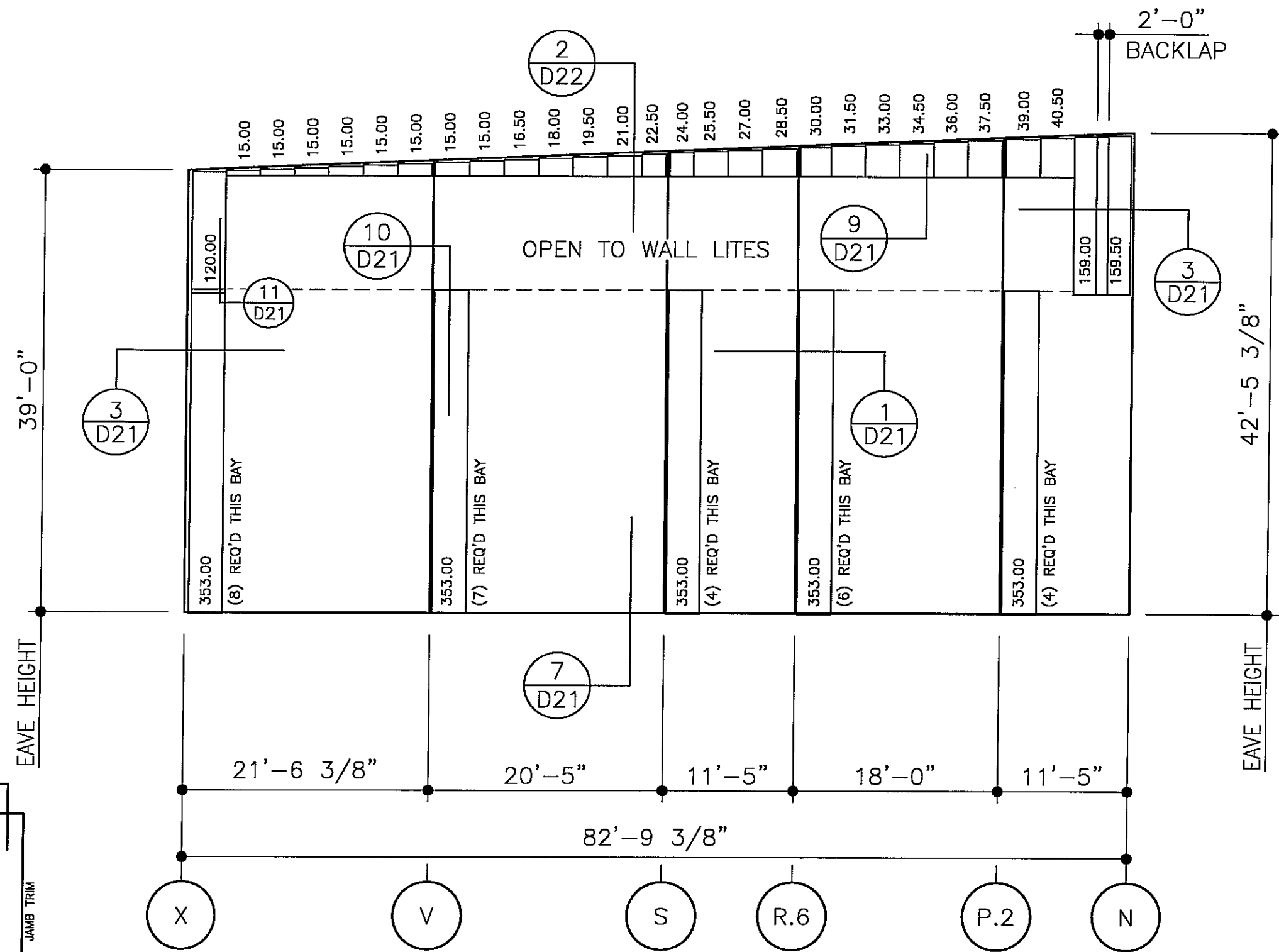


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FRAMED OPENING SCHEDULE

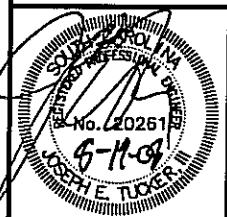
ID NUMBER	QTY	SIZE		TRIM REQUIREMENTS			COVER TRIM REQ'MENTS	
		WIDTH	HEIGHT	JAMB TRIM	HEAD TRIM	SILL TRIM	JAMB TRIM	HEAD TRIM
FIELD 1		14'-0"	14'-0"	JTA05	HTA05	N/A	CCA03	CCA01
FIELD 2		10'-0"	14'-0"	JTA05	HTA04	N/A	CCA03	CCA03

DATE	ISSUE	PERMITS	APPROVALS	CRANE CONFIRMATIONS	FINAL ERECTION
5/23/08	OWN	JH/MS	JH/MS	JH/MS	DB/MSLB/AL
5/23/08	CHK	ND	ND	ND	ND
5/23/08	ENG	ND	ND	ND	ND
5/23/08	P.E.	ND	ND	ND	ND



PAINT BLDG  
LINER PANEL AT LINE 1  
PANELS: 28 GA. CLASSIC LINER - POLAR WHITE

FOR CONSTRUCTION  
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AUG 20 2008  
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**NUCOR BUILDING SYSTEMS**  
PO BOX 1006, 200 WHELSTONE RD.  
SWANSEA, SC 29160  
PHONE: (803) 568-2100  
FAX: (803) 568-2121

PROJECT NAME: OLYMPIC STEEL  
SUMTER, SC  
CUSTOMER: THOMPSON TURNER CONSTRUCTION CO.  
SUMTER, SC

JOB NUMBER: S08A0248A  
SHEET NO: E47 of 48

- ERECTOR NOTES
- 1.) FIELD CUT PANELS AROUND OPENINGS AS REQUIRED.
  - 2.) I.D. NUMBER FIELD;  
(AN I.D. NUMBER INDICATES A FACTORY LOCATED OPENING. SEE WALL ELEVATIONS.)  
(THE WORD "FIELD" INDICATES A FIELD LOCATED OPENING)
  - 3.) SEE SHEET D23 FOR NUCOR STANDARD DOOR ERECTION DETAIL.
  - 4.) SEE SHEET D19 FOR CHANNEL COVER DETAIL. (COVER TRIM)

42'-5 3/8"

EAVE HEIGHT

1  
D21

353.00  
(9) REQ'D THIS BAY  
158.50  
(9) REQ'D THIS BAY

25'-0"

1

2

7  
D21

25'-0"

1  
D22

353.00  
(9) REQ'D THIS BAY  
158.50  
(9) REQ'D THIS BAY

100'-0"

3

353.00  
(9) REQ'D THIS BAY  
158.50  
(9) REQ'D THIS BAY

11  
D21

25'-0"

4

353.00  
(9) REQ'D THIS BAY  
158.50  
(9) REQ'D THIS BAY

1  
D21

25'-0"

5

MAIN BLDG

6  
D19

42'-5 3/8"

EAVE HEIGHT

# PAINT BLDG LINER PANEL AT LINE N

PANELS: 28 GA. CLASSIC LINER - POLAR WHITE

FOR CONSTRUCTION  
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AUG 20 2008

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NO CHANGES CAN BE MADE

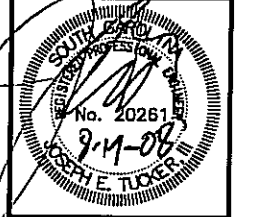
ISSUE	DATE	P.E.	ENG.	CHK.	DRN.
PERMITS	5/23/08	JET	JET	NDD	JH/MS
APPROVALS	5/23/08	JET	JET	NDD	JH/MS
CRANE CONFIRMATIONS	5/23/08	JET	JET	NDD	JH/MS
FINAL ERECTION	8/20/08	JET	JET	NDD	DB/MSLD/ML

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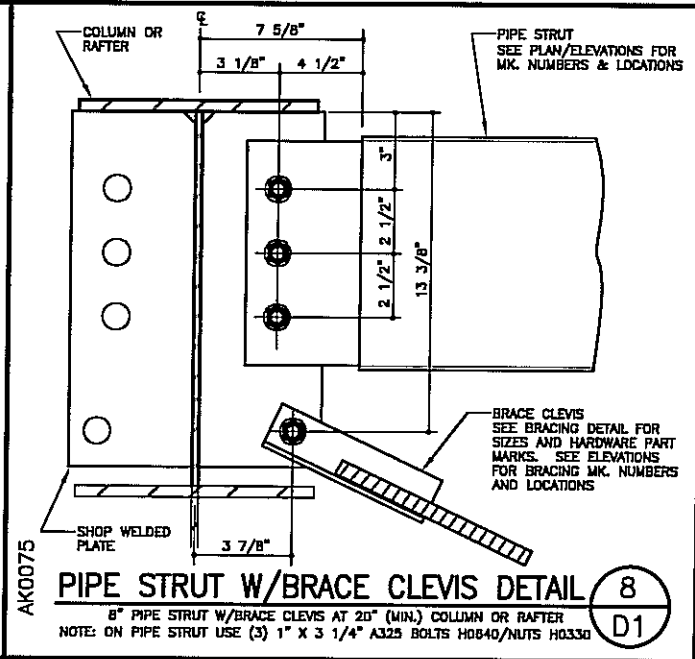
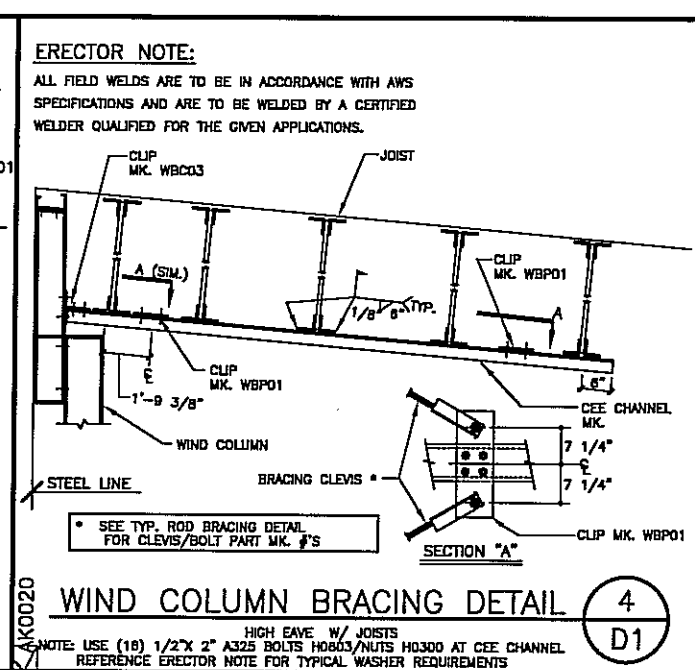
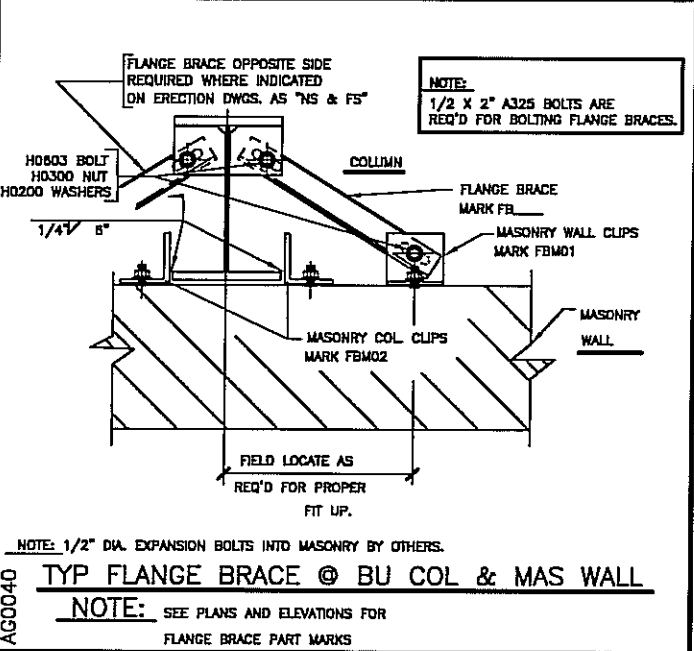
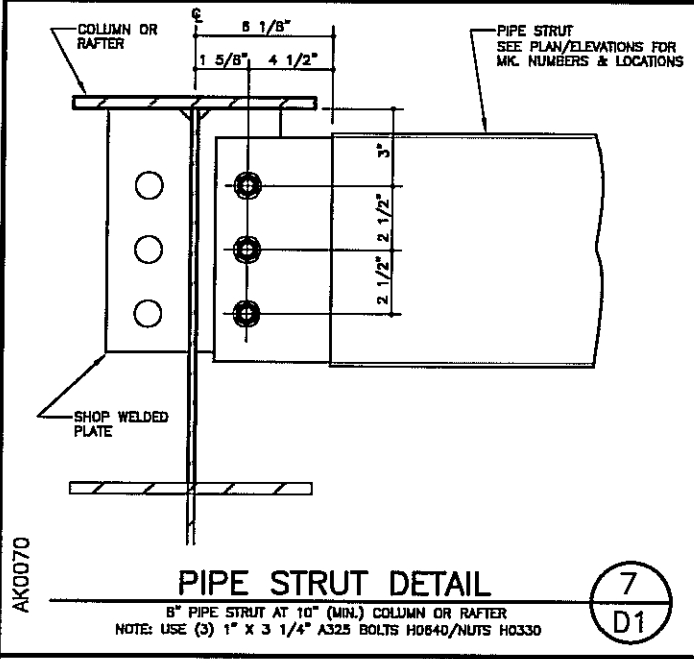
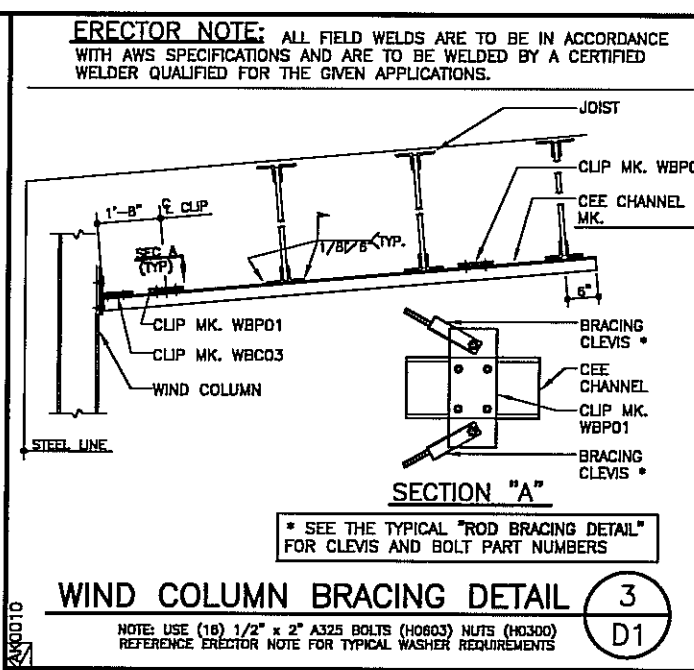
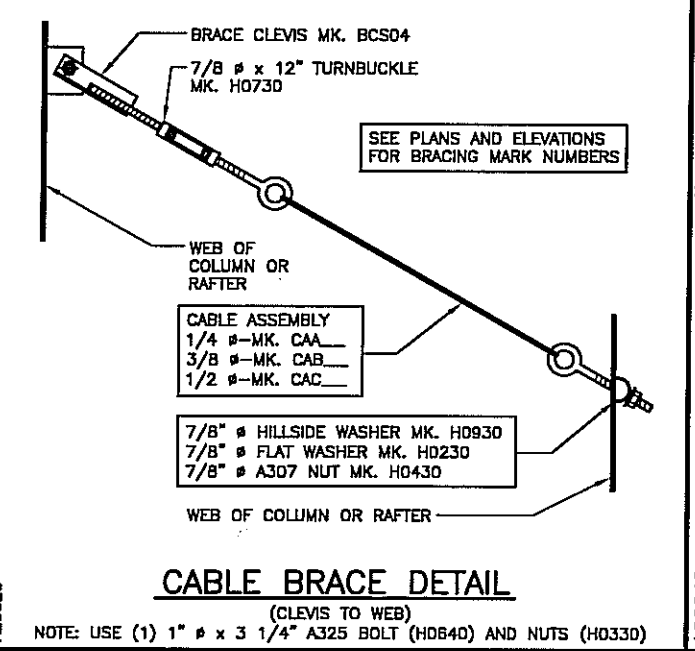
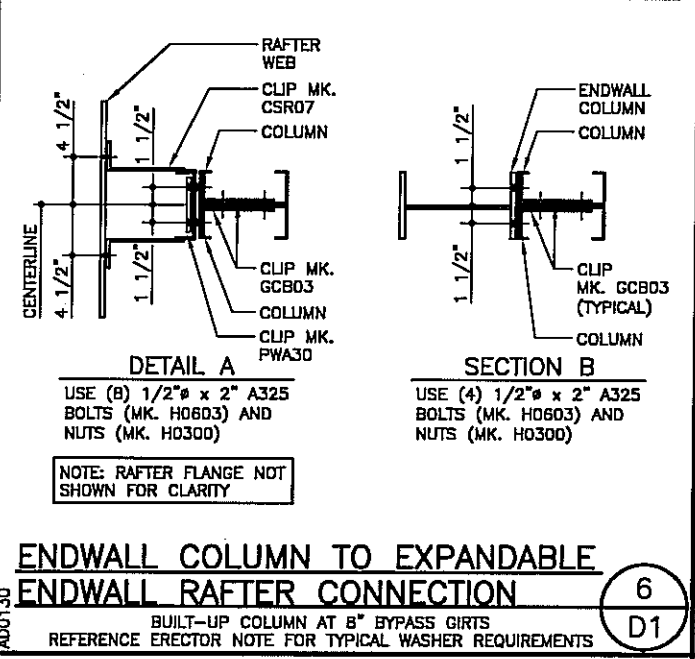
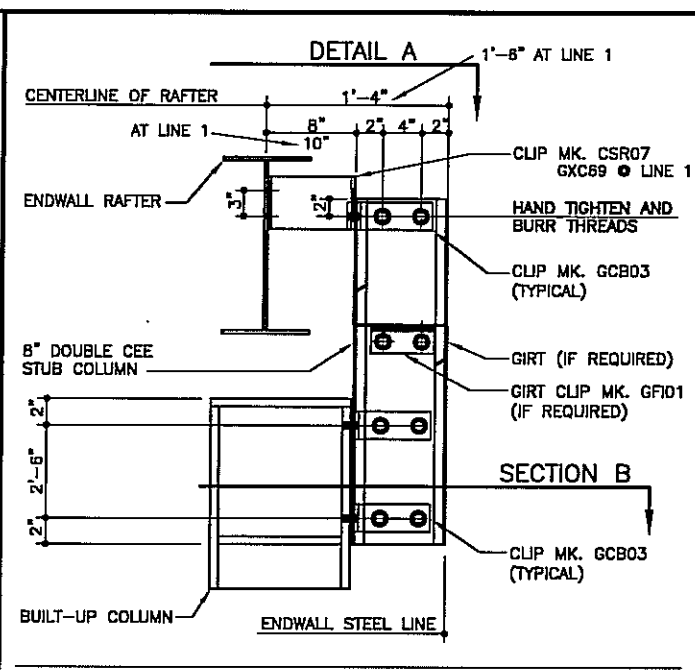
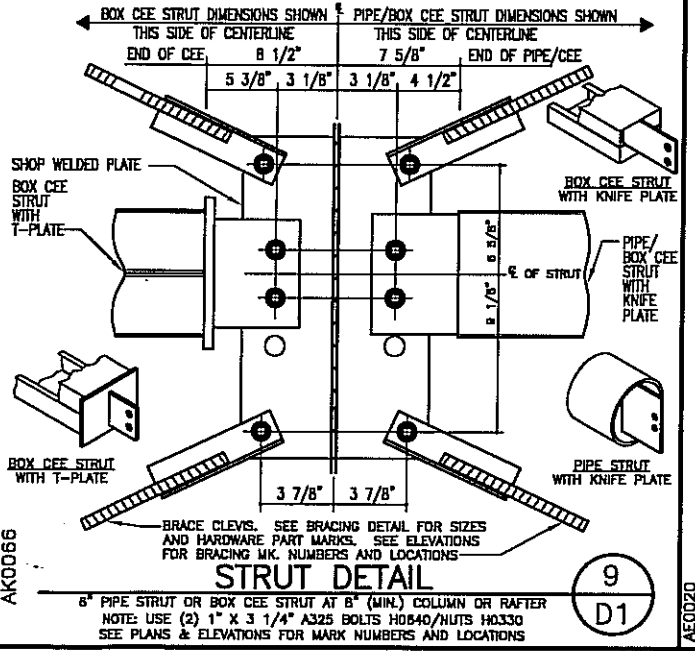
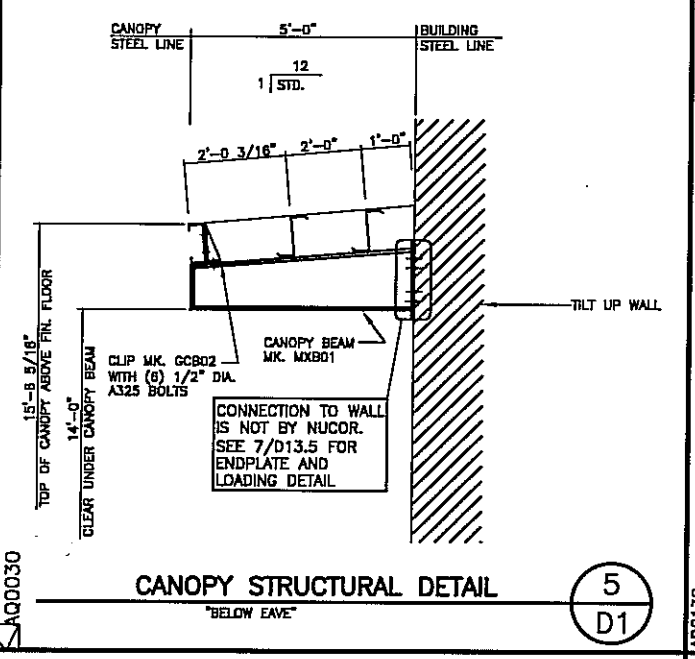
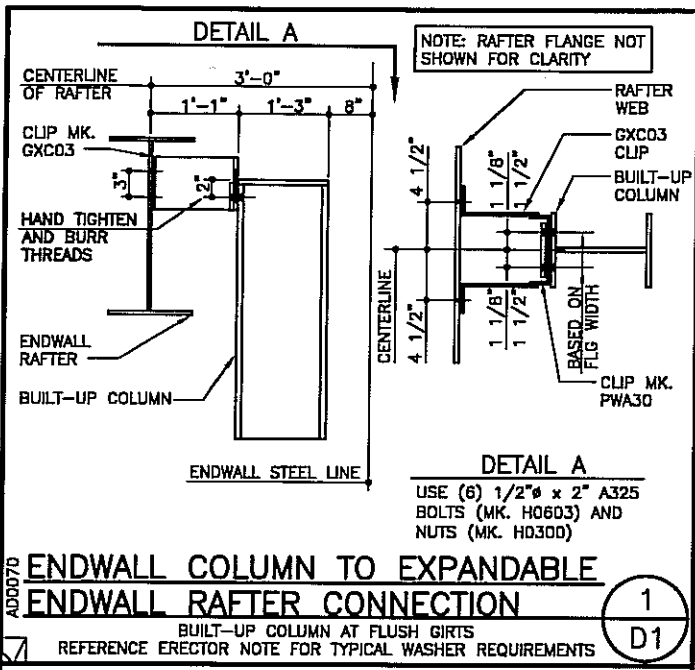
PROJECT NAME: OLYMPIC STEEL  
 SUMTER, SC  
 CUSTOMER: THOMPSON TURNER CONSTRUCTION CO.  
 SUMTER, SC

JOB NUMBER: SOBA0248A

SHEET NO: E48 of 48



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FOR CONSTRUCTION  
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AUG 20 2008  
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NO CHANGES CAN BE MADE.

**ERECTOR NOTE:** ALL FIELD WELDS ARE TO BE IN ACCORDANCE WITH AWS SPECIFICATIONS AND ARE TO BE WELDED BY A CERTIFIED WELDER QUALIFIED FOR THE GIVEN APPLICATIONS.

**ERECTOR NOTE:** ALL FIELD WELDS ARE TO BE IN ACCORDANCE WITH AWS SPECIFICATIONS AND ARE TO BE WELDED BY A CERTIFIED WELDER QUALIFIED FOR THE GIVEN APPLICATIONS.

ISSUE	DATE	BY	CHK	ENG	P.E.
PERMITS	5/23/08	JET	JET	JET	JET
APPROVALS	5/23/08	JET	JET	JET	JET
CRANE CONFIRMATION	5/23/08	JET	JET	JET	JET
FINAL ERECTION	8/20/08	JET	JET	JET	JET

**NUCOR BUILDING SYSTEMS**  
PO BOX 1006, 200 WHEISTONE RD.  
SWANSEA, SC 29160  
PHONE: (803) 568-2100  
FAX: (803) 568-2121

PROJECT NAME: OLYMPIC STEEL  
SUMTER, SC  
CUSTOMER: THOMPSON TURNER CONSTRUCTION CO.  
SUMTER, SC

JOB NUMBER: SOBA0248A

SHEET NO: D1 of 23

FOR CONSTRUCTION  
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AUG 20 2008  
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SEAL: JOSEPH E. TUCKER, REGISTERED PROFESSIONAL ENGINEER, No. 20257, AUG 14 2008

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### 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-18.0, 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 SOLDER 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

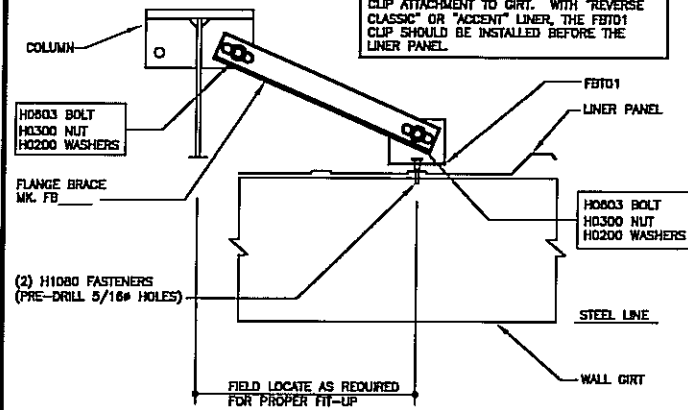
WHEN WELDING DIRECTLY ON GALVANIZED STEEL IS UNAVOIDABLE, OSHA PERMISSIBLE EXPOSURE LIMITS (PELs) MAY BE EXCEEDED AND EVERY PRECAUTION, INCLUDING HIGH-VELOCITY CIRCULATING FANS WITH FILTERS, AIR RESPIRATORS AND FUME-EXTRACTION SYSTEMS SUGGESTED BY AWS, SHOULD BE EMPLOYED. FUMES FROM WELDING GALVANIZED 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 ANS/AISC 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

#### ERECTOR NOTE

1/2" x 2" A325 BOLTS ARE REQUIRED FOR BOLTING FLANGE BRACES. WITH "CLASSIC" LINER, THE LINER MUST BE IN PLACE BEFORE CLIP ATTACHMENT TO GIRT. WITH "REVERSE CLASSIC" OR "ACCENT" LINER, THE FIBD1 CLIP SHOULD BE INSTALLED BEFORE THE LINER PANEL.

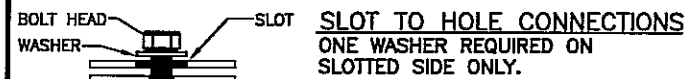
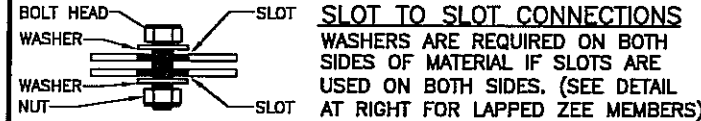


### TYPICAL FLANGE BRACE AT BUILT-UP COLUMN & GIRT

SEE PLANS AND ELEVATIONS FOR FLANGE BRACE PART MARKS  
PRE-DRILL (2) 5/16" PILOT HOLES IN GIRT  
FIELD CUT AND FLATTEN PANEL RIB IF INTERFERENCE WITH FLANGE BRACE CLIP OCCURS

### TYPICAL WASHER REQUIREMENTS ERECTOR NOTE

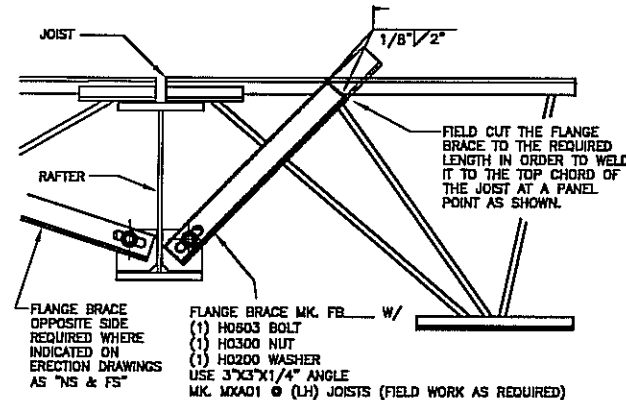
(UNLESS NOTED OTHERWISE ON DRAWINGS)



#### WASHER PART NUMBERS

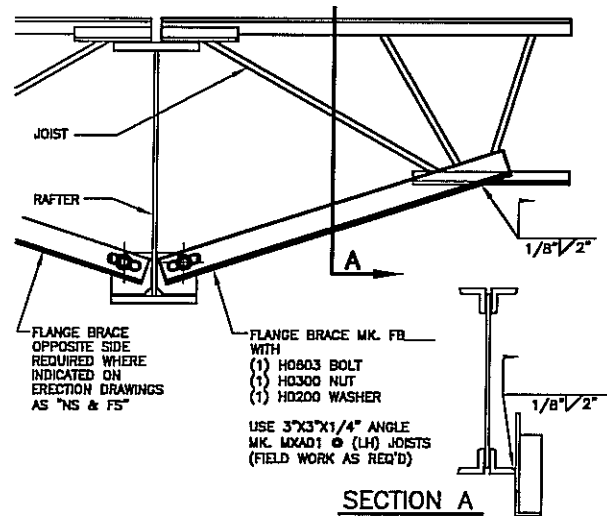
H0200 - 1/2" FLAT WASHER	H0240 - 1" FLAT WASHER
H0210 - 5/8" FLAT WASHER	H0250 - 1 1/8" FLAT WASHER
H0220 - 3/4" FLAT WASHER	H0260 - 1 1/4" FLAT WASHER
H0230 - 7/8" FLAT WASHER	

ERECTOR NOTE: IF THE JOIST DEPTH IS GREATER THAN THE RAFTER DEPTH, WELD THE FLANGE BRACE TO THE JOIST TOP CHORD (AT PANEL POINT AS SHOWN). FIELD CUT THE FLANGE BRACE TO LENGTH SO THAT IT CAN ATTACH AT THE PANEL POINT.



### JOIST DEPTH GREATER THAN RAFTER DEPTH

ALL FLANGE BRACE CONNECTIONS REQUIRE 1/2" x 2" A325 BOLTS UNLESS NOTED OTHERWISE

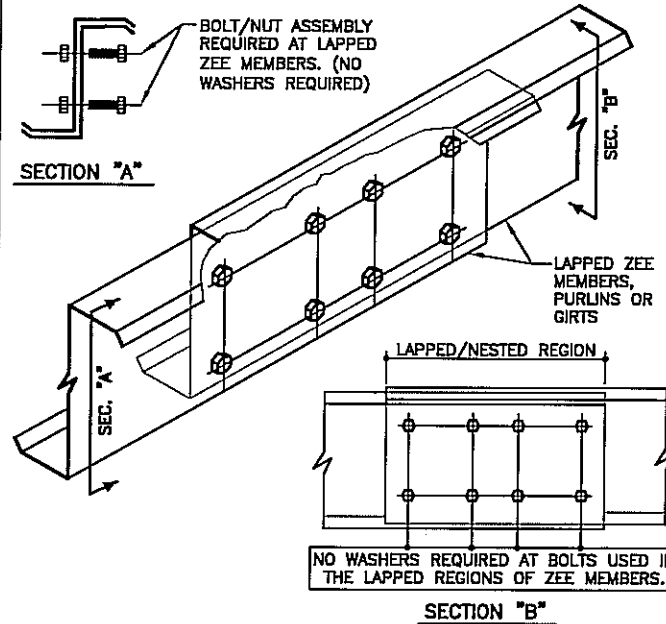


### RAFTER DEPTH GREATER THAN JOIST DEPTH

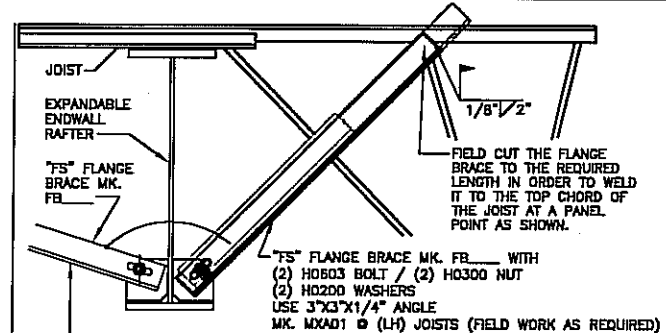
ALL FLANGE BRACE CONNECTIONS REQUIRE 1/2" x 2" A325 BOLTS UNLESS NOTED OTHERWISE

### TYPICAL FLANGE BRACE DETAILS FOR JOIST TO RAFTER CONNECTION

SEE PLANS AND ELEVATIONS FOR FLANGE BRACE PART MARKS



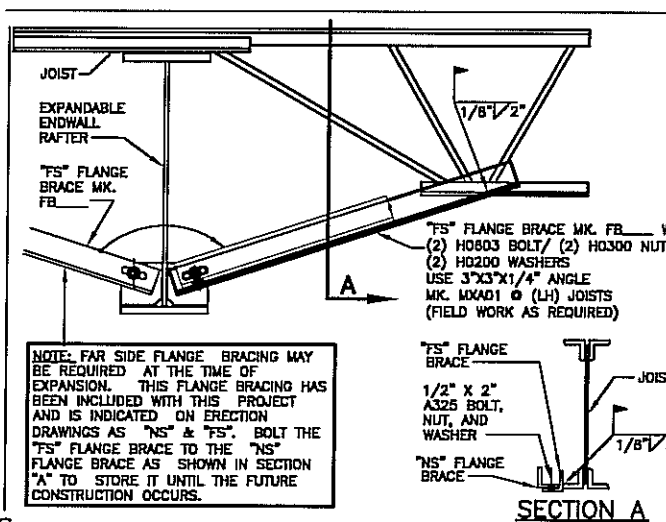
ERECTOR NOTE: IF THE JOIST DEPTH IS GREATER THAN THE RAFTER DEPTH, WELD THE FLANGE BRACE TO THE JOIST TOP CHORD (AT PANEL POINT AS SHOWN). FIELD CUT THE FLANGE BRACE TO LENGTH SO THAT IT CAN ATTACH AT THE PANEL POINT.



ERECTOR NOTE: FAR SIDE FLANGE BRACING MAY BE REQUIRED AT THE TIME OF EXPANSION. THIS FLANGE BRACING HAS BEEN INCLUDED WITH THIS PROJECT AND IS INDICATED ON ERECTION DRAWINGS AS "NS" & "FS". BOLT THE "FS" FLANGE BRACE TO THE "NS" FLANGE BRACE AS SHOWN IN SECTION "A" TO STORE IT UNTIL THE FUTURE CONSTRUCTION OCCURS.

### JOIST DEPTH GREATER THAN RAFTER DEPTH

NOTE: 1/2" x 2" A325 BOLTS ARE REQUIRED FOR BOLTING FLANGE BRACES

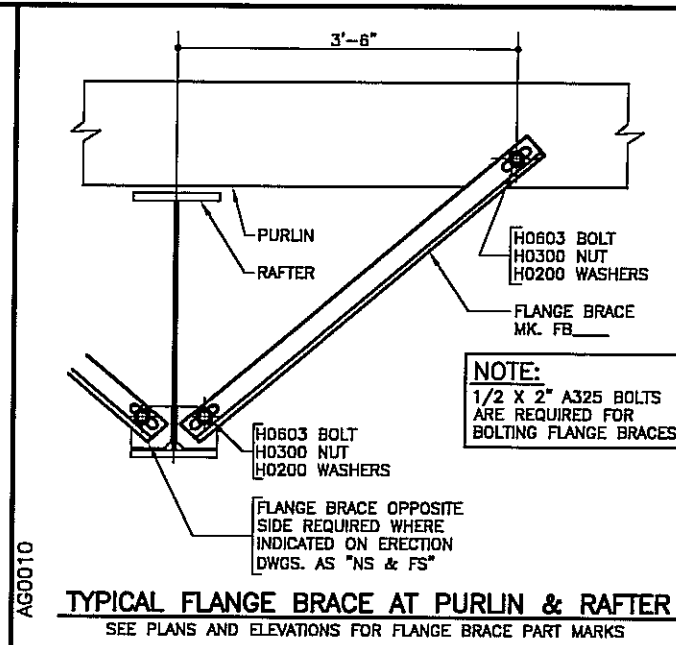


### RAFTER DEPTH GREATER THAN JOIST DEPTH

NOTE: 1/2" x 2" A325 BOLTS ARE REQUIRED FOR BOLTING FLANGE BRACES

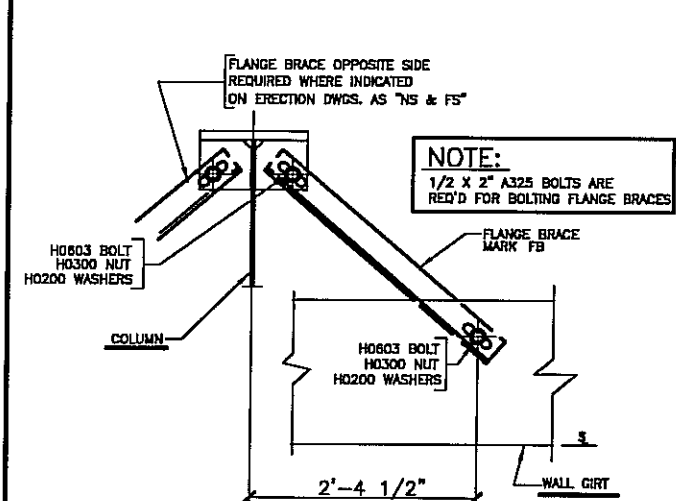
### TYPICAL JOIST TO RAFTER FLANGE BRACE AT EXPANDABLE ENDWALL

SEE ROOF FRAMING PLAN(S), CROSS SECTION(S), AND ELEVATIONS FOR FLANGE BRACE PART NUMBERS



### TYPICAL FLANGE BRACE AT PURLIN & RAFTER

SEE PLANS AND ELEVATIONS FOR FLANGE BRACE PART MARKS



### TYP FLANGE BRACE @ BU COL & GIRT

NOTE: SEE PLANS AND ELEVATIONS FOR FLANGE BRACE PART MARKS

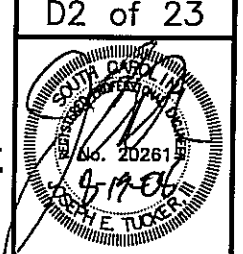
DATE	ISSUE	PERMITS	APPROVALS	CRANE CONFIRMATION	FINAL ERECTION
5/23/08					
5/23/08					
5/23/08					
8/20/08					

**NUCOR BUILDING SYSTEMS**  
PO BOX 1006, 200 WHEISTONE RD.  
SWANSEA, SC 29160  
PHONE: (803) 568-2100  
FAX: (803) 568-2121

PROJECT NAME: OLYMPIC STEEL  
SUILTER, SC  
CUSTOMER: THOMPSON TURNER CONSTRUCTION CO.  
SUILTER, SC

JOB NUMBER: S08A0248A

SHEET NO: D2 of 23



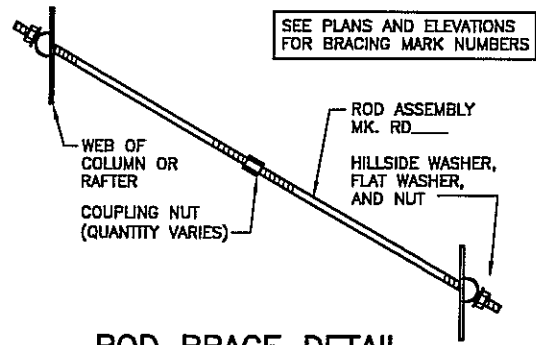
FOR CONSTRUCTION THIS IS NOT AN APPROVAL SET.

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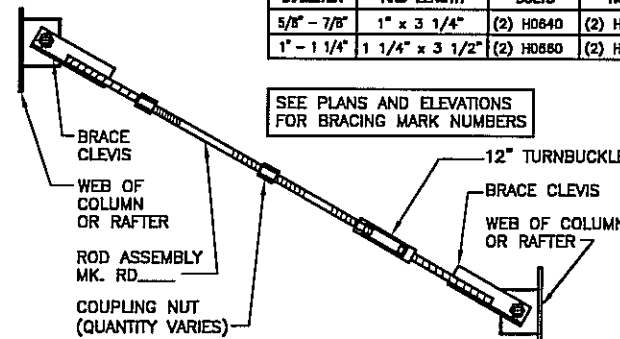
ROD DIAMETER	MARK NUMBER	HILLSIDE WASHERS	FLAT WASHERS	A307/A325 NUTS	COUPLING NUTS
5/8" #	RDB	(2) H0930	(2) H0210	(2) H0310	H0810
3/4" #	RDC	(2) H0930	(2) H0220	(2) H0320	H0820
7/8" #	RDD	(2) H0930	(2) H0230	(2) H0430	H0830
1" #	RDE	(2) H0960	(2) H0240	(2) H0330	H0840
1 1/8" #	RDF	(2) H0960	(2) H0250	(2) H0450	H0850
1 1/4" #	RDG	(2) H0960	(2) H0260	(2) H0340	H0860



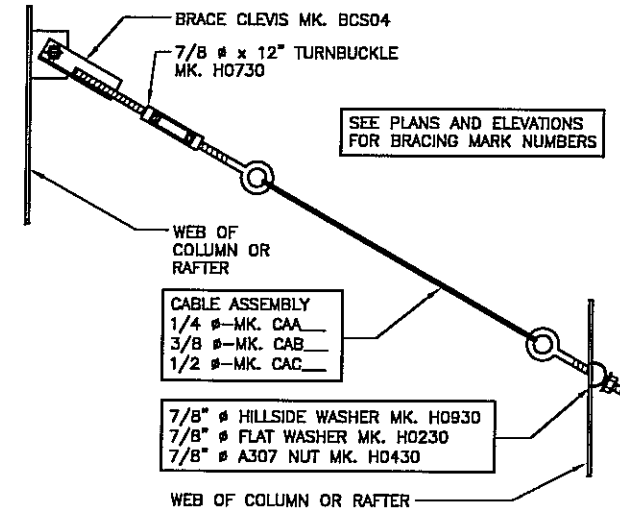
**ROD BRACE DETAIL**  
(WEB TO WEB)

ROD DIAMETERS	MARK NUMBERS	TURNBUCKLES	COUPLING NUTS	BRACE CLEVIS (AT TURNBUCKLE)	BRACE CLEVIS (AT COUPLING NUT)
5/8"	RDB	(1) H0710	(1) H0810	(1) BCS02	(1) BCS07
3/4"	RDC	(1) H0720	(1) H0820	(1) BCS03	(1) BCS08
7/8"	RDD	(1) H0730	(1) H0830	(1) BCS04	(1) BCS09
1"	RDE	(1) H0740	(1) H0840	(1) BCL05	(1) BCL08
1 1/8"	RDF	(1) H0750	(1) H0850	(1) BCL01	(1) BCL03
1 1/4"	RDG	(1) H0760	(1) H0860	(1) BCL02	(1) BCL04

BRACE CLEVIS BOLT AND NUT PART NUMBERS			
ROD DIAMETER	BOLT DIAMETER AND LENGTH	A325 BOLTS	A325 NUTS
5/8" - 7/8"	1" x 3 1/4"	(2) H0640	(2) H0330
1" - 1 1/4"	1 1/4" x 3 1/2"	(2) H0660	(2) H0340

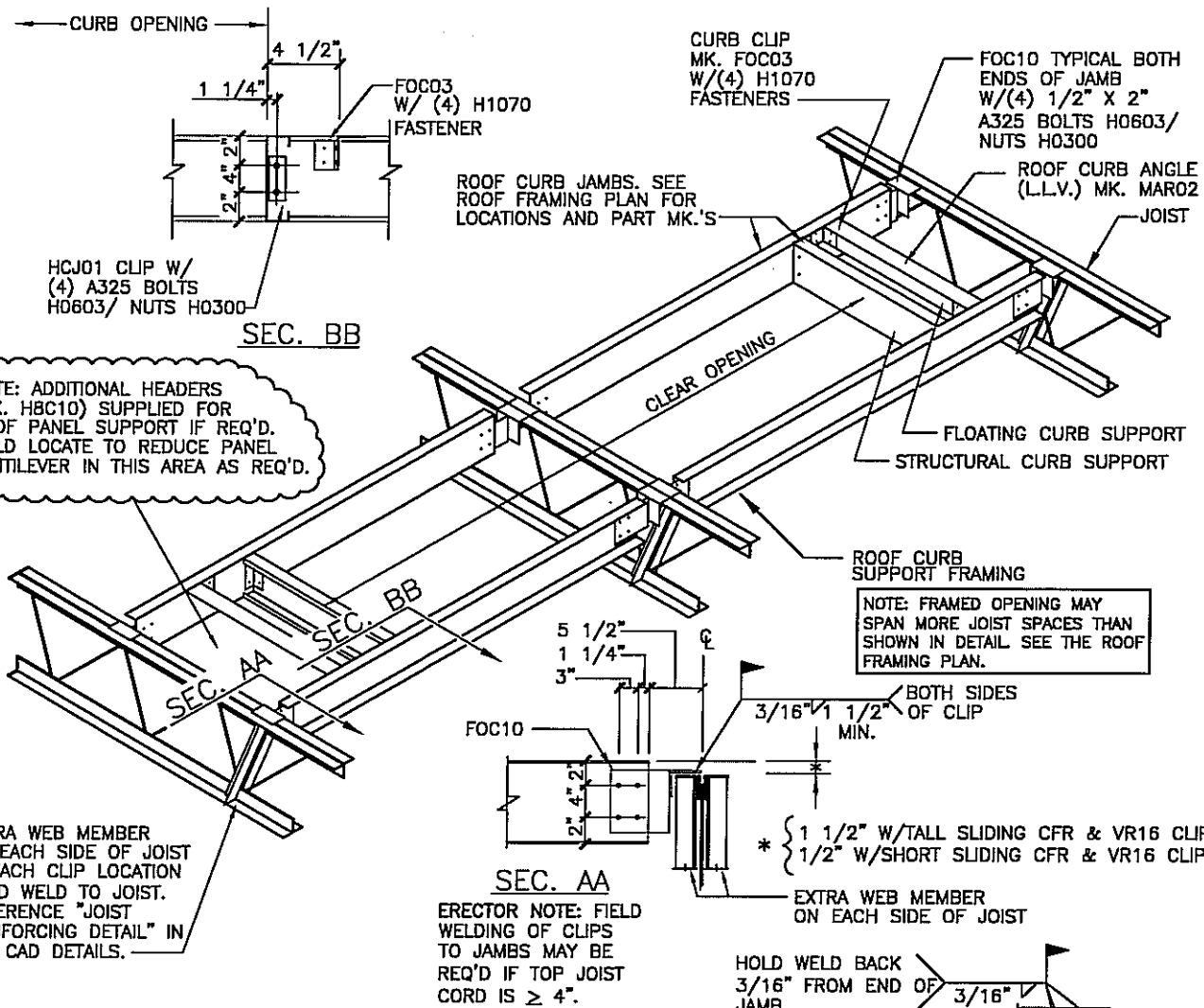


**ROD BRACE DETAIL**  
(CLEVIS TO CLEVIS)



**CABLE BRACE DETAIL**  
(CLEVIS TO WEB)

NOTE: USE (1) 1" # x 3 1/4" A325 BOLT (H0640) AND NUTS (H0330)

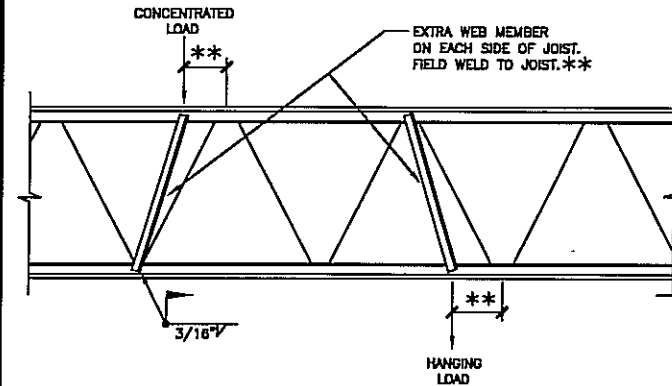


**TYPICAL ROOF F.O. DETAIL**

10  
D3

FOR C.F.R. & VR16 RTU'S > 1200# < 6000# (SLIDING CLIPS)  
ERECTOR IS RESPONSIBLE FOR FIELD WELDING RTU CLIPS TO JOISTS.

FRAMED OPENING IS FIELD LOCATED.  
FIELD DRILL HOLES IN JAMBS AS REQ'D.



**JOIST REINFORCING DETAIL**

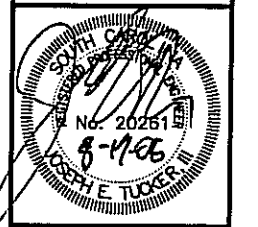
\*\* NOTE: IF <= 3" NO REINFORCEMENT ANGLES REQUIRED. IF ROOF F.O.S ARE BY NUCOR, THEN NUCOR WILL SUPPLY 3" x 3" x 1/4" ANGLE MK. MAR09 IN 40'-0" LENGTHS TO BE FIELD CUT TO LENGTH AND WELDED TO THE JOIST. FOR OTHER LOADS, THE ERECTOR IS RESPONSIBLE FOR OBTAINING AND FIELD INSTALLING THE EXTRA REINFORCEMENT ANGLES.

DATE	ISSUE	APPROVALS	PERMITS
5/23/08	JET	JET	JET
5/23/08	JET	JET	JET
5/23/08	JET	JET	JET
8/20/08	JET	JET	JET

**NUCOR BUILDING SYSTEMS**  
PO BOX 1006, 200 WHELISTONE RD.  
SWANSEA, SC 29160  
PHONE: (803) 568-2100  
FAX: (803) 568-2121

PROJECT NAME: OLYMPIC STEEL  
SUMTER, SC  
CUSTOMER: THOMPSON TURNER CONSTRUCTION CO.  
SUMTER, SC

JOB NUMBER: S08A0248A  
SHEET NO: D3 of 23



FOR CONSTRUCTION  
THIS IS NOT AN APPROVAL SET.

AUG 20 2008

YOUR BUILDING IS BEING FABRICATED.  
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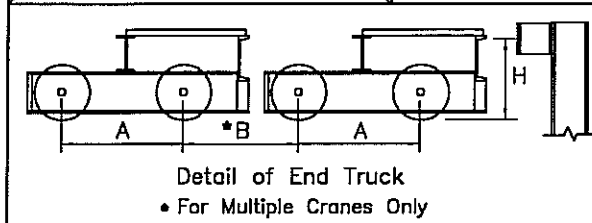
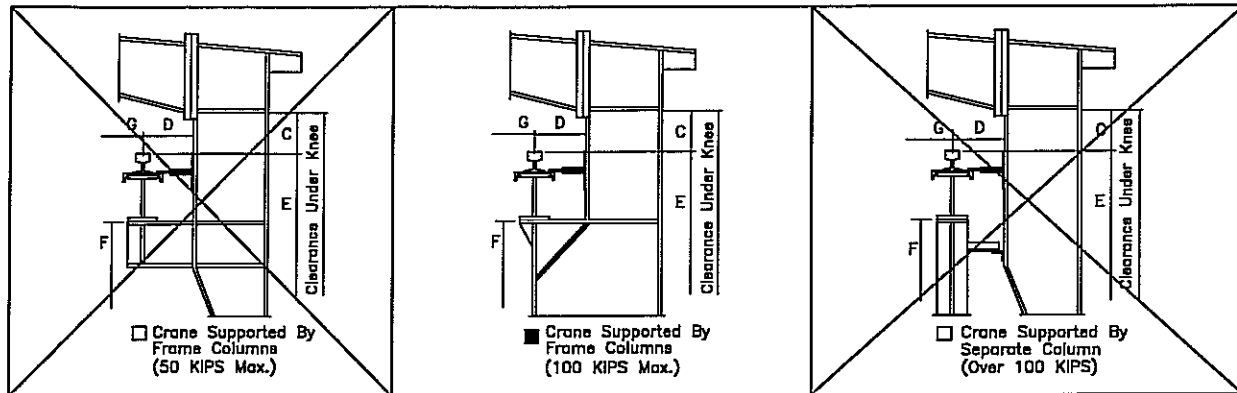
AF0010

AF0030

AE0020

BK0210(S,T)

BF0015



- MATERIALS PROVIDED BY NUCOR BUILDING SYSTEMS**
- |                                     |                                       |                                   |
|-------------------------------------|---------------------------------------|-----------------------------------|
| <input type="checkbox"/> Y          | <input checked="" type="checkbox"/> N | Design For Crane Loads Only       |
| <input checked="" type="checkbox"/> | <input type="checkbox"/>              | Brackets or Auxiliary Columns     |
| <input checked="" type="checkbox"/> | <input type="checkbox"/>              | Runway Beam & Channel             |
| <input checked="" type="checkbox"/> | <input type="checkbox"/>              | Crane Rail & Method of Attachment |
| <input checked="" type="checkbox"/> | <input type="checkbox"/>              | Crane Stops                       |

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

Information Provided/Confirmed By Customer  
Information Assumed By N.B.S.

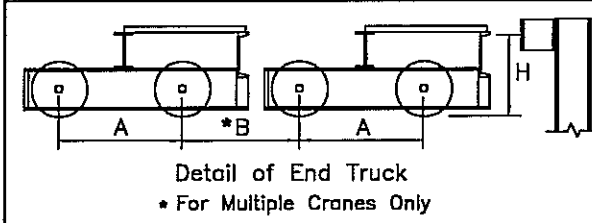
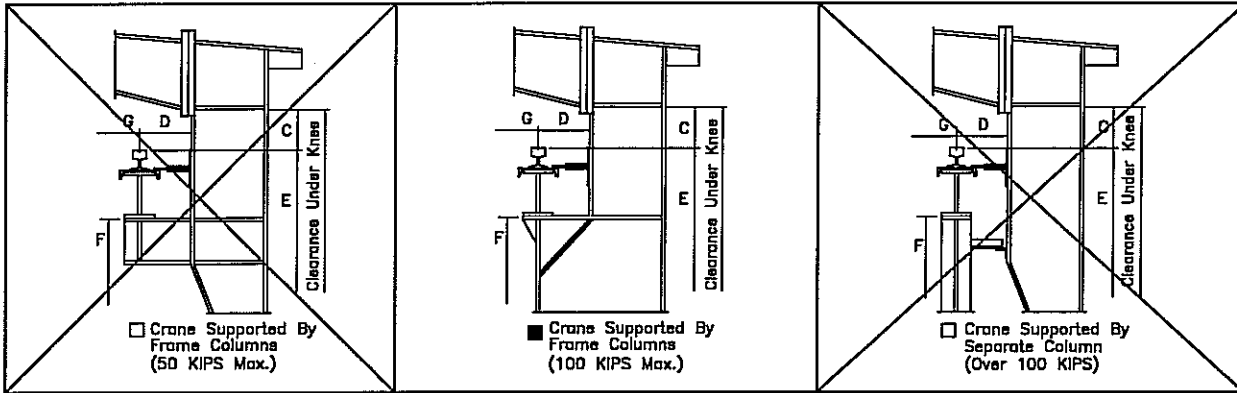
<input checked="" type="checkbox"/>	Quantity of Cranes:	<u>3 &amp; (1) FUTURE</u>
<input checked="" type="checkbox"/>	Crane Type: (TRDG/TRSG)	<u>TRDG</u>
<input checked="" type="checkbox"/>	Rated Capacity:	<u>20</u> tons
<input checked="" type="checkbox"/>	CMAA Service Duty Class:	<u>D</u>
<input checked="" type="checkbox"/>	Operation Control Type:	<u>PENDANT</u>
<input checked="" type="checkbox"/>	Hoist and Trolley Weight:	<u>(2) 3150</u> lbs.
<input checked="" type="checkbox"/>	Bridge Weight:	<u>28310</u> lbs.
<input checked="" type="checkbox"/>	Max. Wheel Load w/o Impact:	<u>30200</u> lbs.
<input checked="" type="checkbox"/>	Bumper Type: (Hydraulic/Rubber/Spring)	<u>RUBBER</u>
<input type="checkbox"/>	Bumper Stroke:	<u>TBD</u> in.
<input type="checkbox"/>	Bridge Travel Speed:	<u>160</u> fpm
<input type="checkbox"/>	Crane End Stop Force:	<u>25000</u> lbs.
<input checked="" type="checkbox"/> H	Top of Rail to Center of Stop Bumper:	<u>0'-4"</u> ft.-in.

Information Provided/Confirmed By Customer  
Information Assumed By N.B.S.

<input type="checkbox"/>	Length of Runway:	<u>320'-0"</u> ft.-in.
<input checked="" type="checkbox"/>	No. of Wheels Per End Truck:	<u>2</u>
<input checked="" type="checkbox"/>	Adjacent Crane I.D.:	<u>B</u>
<input checked="" type="checkbox"/>	Crane Rail Size (ASCE):	<u>60</u> lbs/yd
<input checked="" type="checkbox"/> A	Wheel Spacing:	<u>13'-2"</u> ft.-in.
<input checked="" type="checkbox"/> B	Center to Center of Adj. Crane Wheels:	<u>2'-2"</u> ft.-in.
<input checked="" type="checkbox"/> C	Min. Top Clear Distance From Top of Rail:	<u>3'-6"</u> ft.-in.
<input checked="" type="checkbox"/> D	Min. Side Clear Distance From Center of Beam:	<u>0'-9"</u> ft.-in.
<input type="checkbox"/> E	Top of Rail To Finish Floor:	<u>29'-0" (*)</u> ft.-in.
<input type="checkbox"/> F	Top of Bracket/Auxiliary Column To Finish Floor:	<u>VARIES</u> ft.-in.
<input type="checkbox"/> G	Center To Center of Rail:	<u>73'-9"</u> ft.-in.

(\*) = 29'-0 3/8" @ CRANES BETWEEN LINES A & E.

**TOP RUNNING CRANE DESIGN INFORMATION DETAIL**



- MATERIALS PROVIDED BY NUCOR BUILDING SYSTEMS**
- |                                     |                                       |                                   |
|-------------------------------------|---------------------------------------|-----------------------------------|
| <input type="checkbox"/> Y          | <input checked="" type="checkbox"/> N | Design For Crane Loads Only       |
| <input checked="" type="checkbox"/> | <input type="checkbox"/>              | Brackets or Auxiliary Columns     |
| <input checked="" type="checkbox"/> | <input type="checkbox"/>              | Runway Beam & Channel             |
| <input checked="" type="checkbox"/> | <input type="checkbox"/>              | Crane Rail & Method of Attachment |
| <input checked="" type="checkbox"/> | <input type="checkbox"/>              | Crane Stops                       |

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

Information Provided/Confirmed By Customer  
Information Assumed By N.B.S.

<input checked="" type="checkbox"/>	Quantity of Cranes:	<u>2</u>
<input checked="" type="checkbox"/>	Crane Type: (TRDG/TRSG)	<u>TRDG</u>
<input checked="" type="checkbox"/>	Rated Capacity:	<u>20</u> tons
<input checked="" type="checkbox"/>	CMAA Service Duty Class:	<u>D</u>
<input checked="" type="checkbox"/>	Operation Control Type:	<u>PENDANT</u>
<input checked="" type="checkbox"/>	Hoist and Trolley Weight:	<u>(2) 3150</u> lbs.
<input checked="" type="checkbox"/>	Bridge Weight:	<u>28310</u> lbs.
<input checked="" type="checkbox"/>	Max. Wheel Load w/o Impact:	<u>30200</u> lbs.
<input checked="" type="checkbox"/>	Bumper Type: (Hydraulic/Rubber/Spring)	<u>RUBBER</u>
<input type="checkbox"/>	Bumper Stroke:	<u>TBD</u> in.
<input type="checkbox"/>	Bridge Travel Speed:	<u>160</u> fpm
<input type="checkbox"/>	Crane End Stop Force:	<u>25000</u> lbs.
<input checked="" type="checkbox"/> H	Top of Rail to Center of Stop Bumper:	<u>0'-4"</u> ft.-in.

Information Provided/Confirmed By Customer  
Information Assumed By N.B.S.

<input type="checkbox"/>	Length of Runway:	<u>320'-0"</u> ft.-in.
<input checked="" type="checkbox"/>	No. of Wheels Per End Truck:	<u>2</u>
<input checked="" type="checkbox"/>	Adjacent Crane I.D.:	<u>A/C</u>
<input checked="" type="checkbox"/>	Crane Rail Size (ASCE):	<u>60</u> lbs/yd
<input checked="" type="checkbox"/> A	Wheel Spacing:	<u>13'-2"</u> ft.-in.
<input checked="" type="checkbox"/> B	Center to Center of Adj. Crane Wheels:	<u>2'-2"</u> ft.-in.
<input checked="" type="checkbox"/> C	Min. Top Clear Distance From Top of Rail:	<u>3'-6"</u> ft.-in.
<input checked="" type="checkbox"/> D	Min. Side Clear Distance From Center of Beam:	<u>0'-9"</u> ft.-in.
<input type="checkbox"/> E	Top of Rail To Finish Floor:	<u>29'-0"</u> ft.-in.
<input type="checkbox"/> F	Top of Bracket/Auxiliary Column To Finish Floor:	<u>VARIES</u> ft.-in.
<input type="checkbox"/> G	Center To Center of Rail:	<u>75'-10"</u> ft.-in.

**TOP RUNNING CRANE DESIGN INFORMATION DETAIL**

**CRANE SYSTEM GENERAL NOTES**

- COORDINATION OF OTHER TRADES: SUPPORTS AND BRACING FOR THE CRANE SYSTEM SHALL BE PROVIDED AND ARE REQUIRED AS SHOWN IN THE SECTIONS AND AS NOTED IN THESE GENERAL NOTES. NECESSARY CLEARANCE DIMENSIONS FOR PROPER ELEVATIONS RELATIVE TO THE CRANE SYSTEMS HAVE BEEN SHOWN. THE BUYER SHALL BE RESPONSIBLE FOR COORDINATING THESE DIMENSIONAL REQUIREMENTS WITH OTHER TRADES ASSOCIATED WITH THE BUILDING SYSTEM.
- CRANE RAIL SPLICES MUST BE ARRANGED SO THAT JOINTS ON OPPOSITE RUNWAY BEAMS FOR THE CRANE AISLE ARE STAGGERED WITH RESPECT TO EACH OTHER AND WITH RESPECT TO THE WHEEL BASE OF THE CRANE. REFER TO CMAA OR AISC GUIDELINES FOR FURTHER INSTALLATION REQUIREMENTS.
- PERIODIC MAINTENANCE IS REQUIRED. DUE TO THE NATURE OF THE CRANE SYSTEM, MAINTENANCE INCLUDING BUT NOT LIMITED TO, TIGHTENING OF BOLTS AND NUTS MUST BE DONE AS REQUIRED BY BUILDER OR THE BUILDING OWNER TO INSURE THAT THE CRANE SYSTEM REMAINS IN SAFE, OPERATING CONDITION. REFER TO CMAA OR AISC GUIDELINES FOR PERIODIC MAINTENANCE REQUIREMENTS.
- SEE RAIL TO RUNWAY BEAM CONNECTION DETAILS FOR HOOK BOLT OR SLIDING CLAMP REQUIREMENTS.

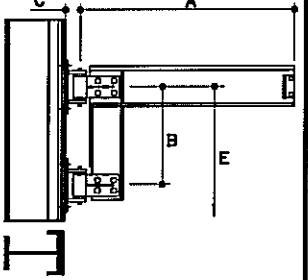
**JIB CRANE INFO**  
DESIGN FOR CRANE LOADS ONLY

CRANE I.D. (A, B, C...) \_\_\_\_\_

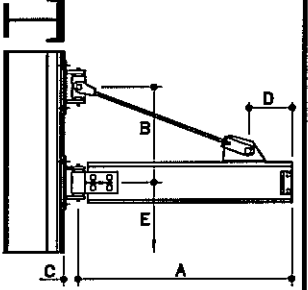
INFO PROVIDED OR CONFIRMED BY THE CUSTOMER  
INFO ASSUMED BY N.B.S.

<input checked="" type="checkbox"/>	QUANTITY OF CRANES:	<u>62</u>
<input checked="" type="checkbox"/>	RATED CAPACITY:	<u>2</u> (TONS)
<input checked="" type="checkbox"/>	CMAA SERVICE DUTY CLASS:	<u>D</u>
<input checked="" type="checkbox"/>	BOOM ROTATION:	<u>200</u> (DEG)
<input checked="" type="checkbox"/> A	BOOM LENGTH:	<u>20'-0"</u> (FT-0)
<input checked="" type="checkbox"/> B	BRACKET SPACING:	<u>7'-6"</u> (FT-0)
<input checked="" type="checkbox"/> C	PIVOT CENTER TO COLUMN FACE:	<u>0'-5"</u> (FT-0)
<input checked="" type="checkbox"/> D	DISTANCE FROM END OF BOOM TO SUSPENSION SUPPORT:	<u>N/A</u> (FT-0)
<input checked="" type="checkbox"/> E	DISTANCE FROM CENTERLINE OF BOOM TO FINISHED FLOOR:	<u>23'-0"</u> (FT-0)

**CANTILEVERED BOOM**



**SUSPENDED BOOM**



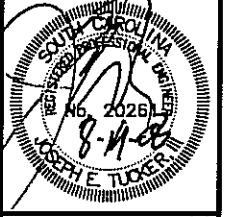
DATE	ISSUE	PERMITS	APPROVALS	CRANE CONFORMATION	FINAL ERECTION
5/23/08	JET	JET	JET	JET	JET
5/23/08	JET	JET	JET	JET	JET
5/23/08	JET	JET	JET	JET	JET
8/20/08	JET	JET	JET	JET	JET

**NUCOR BUILDING SYSTEMS**  
PO BOX 1006, 200 WHELSTONE RD.  
SWANSEA, SC 29160  
PHONE: (803) 568-2100  
FAX: (803) 568-2121

PROJECT NAME: **OLYMPIC STEEL**  
SUMTER, SC  
CUSTOMER: **THOMPSON TURNER CONSTRUCTION CO.**  
SUMTER, SC

JOB NUMBER: **S08A0248A**

SHEET NO: **D4 of 23**



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**AUG 20 2008**

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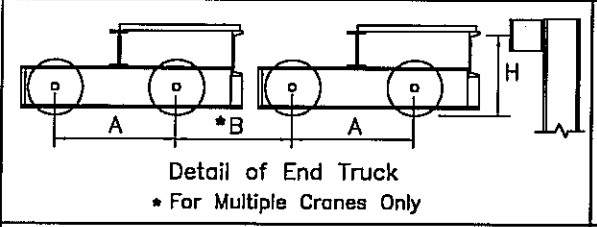
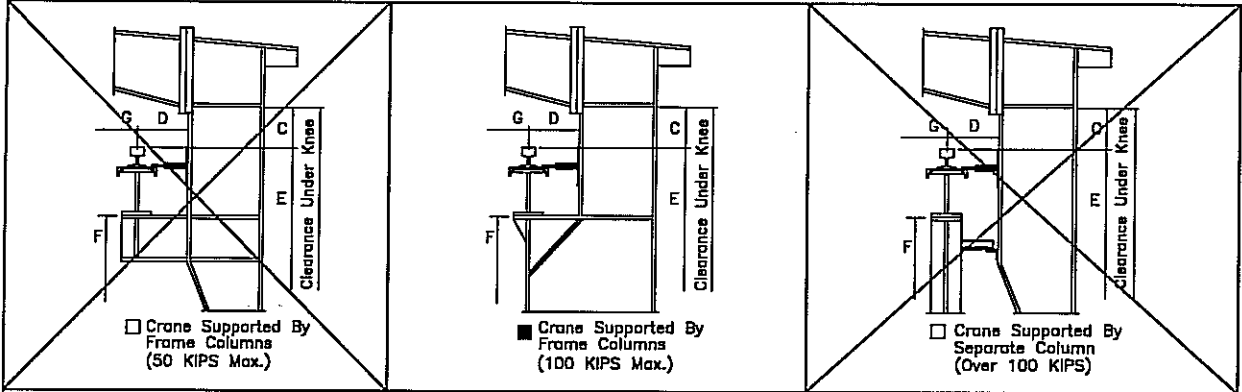
AH0002

AH0002

AH0001

AH0004



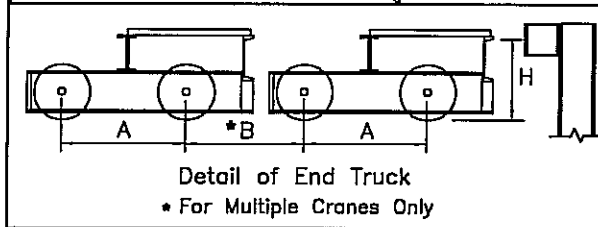
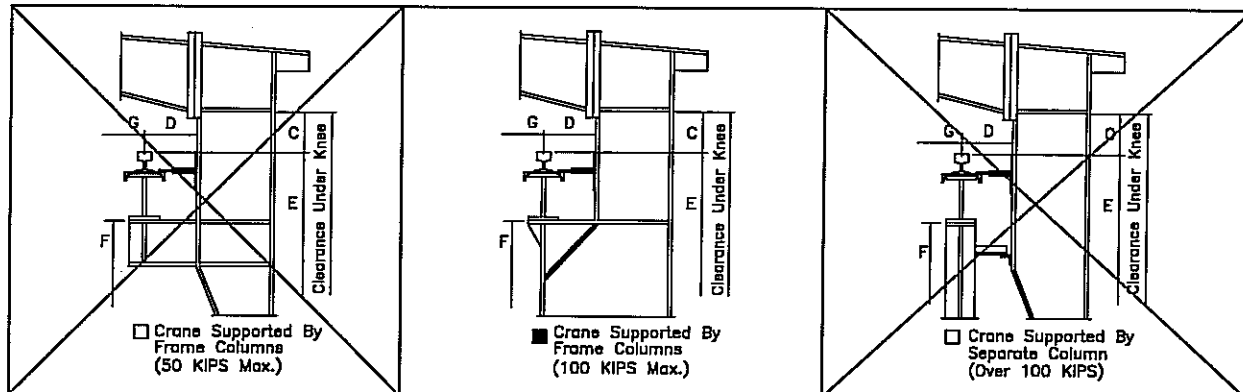


- MATERIALS PROVIDED BY NUCOR BUILDING SYSTEMS**
- |                            |                            |                                   |
|----------------------------|----------------------------|-----------------------------------|
| <input type="checkbox"/> Y | <input type="checkbox"/> N | Design For Crane Loads Only       |
| <input type="checkbox"/>   | <input type="checkbox"/>   | Brackets or Auxiliary Columns     |
| <input type="checkbox"/>   | <input type="checkbox"/>   | Runway Beam & Channel             |
| <input type="checkbox"/>   | <input type="checkbox"/>   | Crane Rail & Method of Attachment |
| <input type="checkbox"/>   | <input type="checkbox"/>   | Crane Stops                       |

- Crane I.D. (A, B, C...) C
- Information Provided/Confirmed By Customer  
Information Assumed By N.B.S.
- Quantity of Cranes: 1 & (1) FUTURE
  - Crane Type: (TRDG/TRSG) TRDG
  - Rated Capacity: 10 tons
  - CMAA Service Duty Class: D
  - Operation Control Type: PENDANT
  - Hoist and Trolley Weight: 1490 lbs.
  - Bridge Weight: 22434 lbs.
  - Max. Wheel Load w/o Impact: 19350 lbs.
  - Bumper Type: (Hydraulic/Rubber/Spring) RUBBER
  - Bumper Stroke: TBD in.
  - Bridge Travel Speed: 160 fpm
  - Crane End Stop Force: 25000 lbs.
  - Top of Rail To Center of Stop Bumper: 0'-4" ft.-in.

- Information Provided/Confirmed By Customer  
Information Assumed By N.B.S.
- Length of Runway: 320'-0" ft.-in.
  - No. of Wheels Per End Truck: 2
  - Adjacent Crane I.D.: D
  - Crane Rail Size (ASCE): 60 lbs/yd
  - Wheel Spacing: 10'-4" ft.-in.
  - Center to Center of Adj. Crane Wheels: 2'-1" ft.-in.
  - Min. Top Clear Distance From Top of Rail: 3'-0" ft.-in.
  - Min. Side Clear Distance From Center of Beam: 0'-7" ft.-in.
  - Top of Rail To Finish Floor: 29'-0" ft.-in.
  - Top of Bracket/Auxiliary Column To Finish Floor: VARIES ft.-in.
  - Center To Center of Rail: 73'-9" ft.-in.

**TOP RUNNING CRANE DESIGN INFORMATION DETAIL**



- MATERIALS PROVIDED BY NUCOR BUILDING SYSTEMS**
- |                            |                            |                                   |
|----------------------------|----------------------------|-----------------------------------|
| <input type="checkbox"/> Y | <input type="checkbox"/> N | Design For Crane Loads Only       |
| <input type="checkbox"/>   | <input type="checkbox"/>   | Brackets or Auxiliary Columns     |
| <input type="checkbox"/>   | <input type="checkbox"/>   | Runway Beam & Channel             |
| <input type="checkbox"/>   | <input type="checkbox"/>   | Crane Rail & Method of Attachment |
| <input type="checkbox"/>   | <input type="checkbox"/>   | Crane Stops                       |

- Crane I.D. (A, B, C...) D
- Information Provided/Confirmed By Customer  
Information Assumed By N.B.S.
- Quantity of Cranes: 2
  - Crane Type: (TRDG/TRSG) TRDG
  - Rated Capacity: 10 tons
  - CMAA Service Duty Class: D
  - Operation Control Type: PENDANT
  - Hoist and Trolley Weight: 1490 lbs.
  - Bridge Weight: 22434 lbs.
  - Max. Wheel Load w/o Impact: 19350 lbs.
  - Bumper Type: (Hydraulic/Rubber/Spring) RUBBER
  - Bumper Stroke: TBD in.
  - Bridge Travel Speed: 160 fpm
  - Crane End Stop Force: 25000 lbs.
  - Top of Rail To Center of Stop Bumper: 0'-4" ft.-in.

- Information Provided/Confirmed By Customer  
Information Assumed By N.B.S.
- Length of Runway: 320'-0" ft.-in.
  - No. of Wheels Per End Truck: 2
  - Adjacent Crane I.D.: B
  - Crane Rail Size (ASCE): 60 lbs/yd
  - Wheel Spacing: 10'-4" ft.-in.
  - Center to Center of Adj. Crane Wheels: 2'-1" ft.-in.
  - Min. Top Clear Distance From Top of Rail: 3'-0" ft.-in.
  - Min. Side Clear Distance From Center of Beam: 0'-7" ft.-in.
  - Top of Rail To Finish Floor: 29'-0" ft.-in.
  - Top of Bracket/Auxiliary Column To Finish Floor: VARIES ft.-in.
  - Center To Center of Rail: 75'-10" ft.-in.

**TOP RUNNING CRANE DESIGN INFORMATION DETAIL**

AH0002

AH0002

DATE	5/23/08
P.E.	JET
ENG	JET
CHK	JET
DRN	JET
ISSUE	
PERMITS	
APPROVALS	
CRANE CONFIRMATION	
FINAL ERECTION	

**NUCOR BUILDING SYSTEMS**  
 PO BOX 1006, 200 WHEISTONE RD.  
 SWANSEA, SC 29160  
 PHONE: (803) 568-2100  
 FAX: (803) 568-2121

PROJECT NAME: OLYMPIC STEEL  
 SUMTER, SC  
 CUSTOMER: THOMPSON TURNER CONSTRUCTION CO.  
 SUMTER, SC

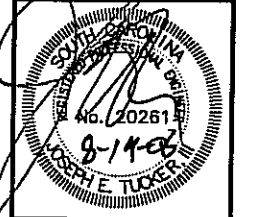
JOB NUMBER: S08A0248A

SHEET NO: D5 of 23

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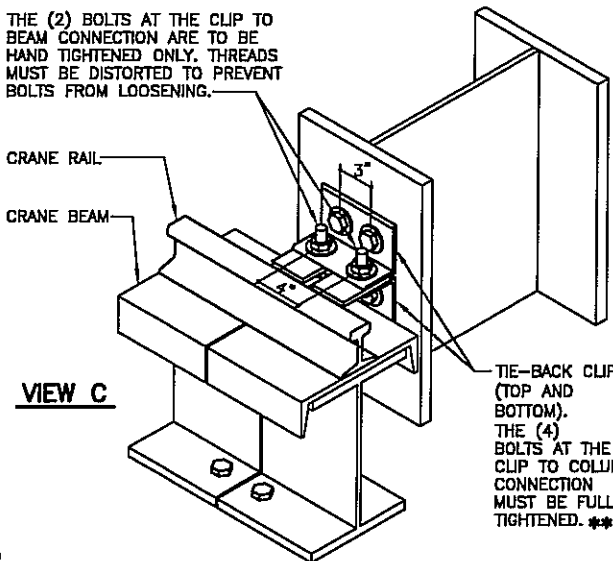
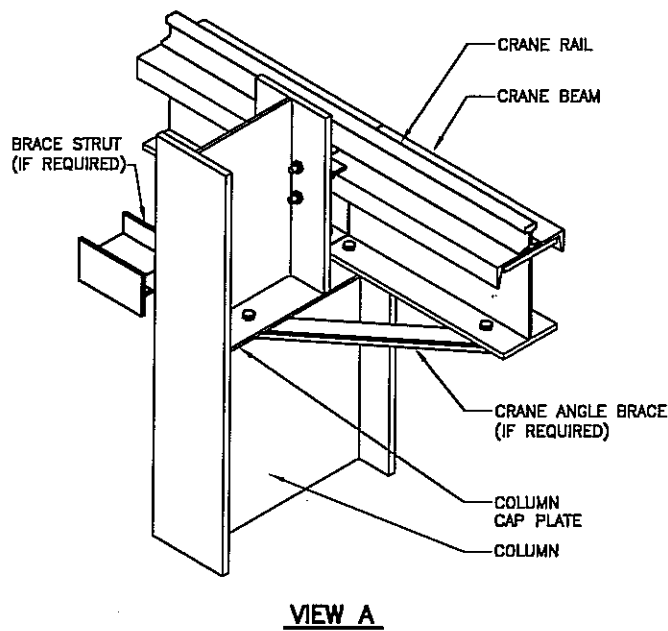
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 NO CHANGES CAN BE MADE.

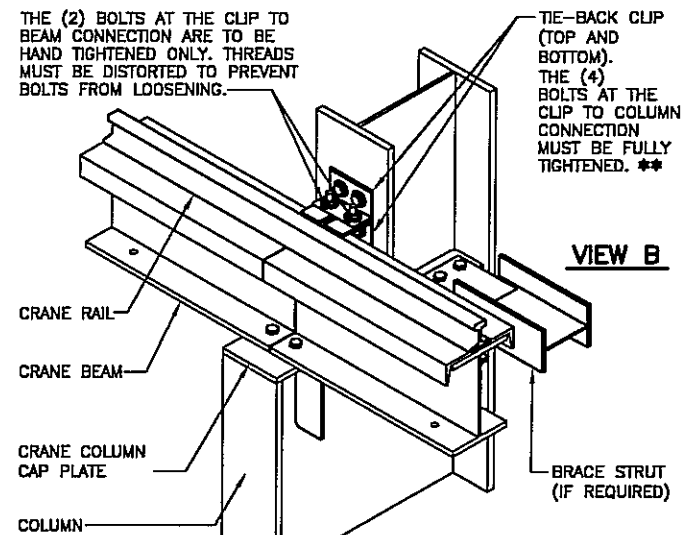


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\*\* - PROVIDE 7/8" SHIM PACK (3) 1/8" PLATES MK. GXCO4 & (2) 1/4" PLATES MK. GXCO5. USE IF REQUIRED.



\*\* - PROVIDE 7/8" SHIM PACK (3) 1/8" PLATES MK. GXCO4 & (2) 1/4" PLATES MK. GXCO5. USE IF REQUIRED.

**GENERAL NOTES**

THE INTENTION OF THIS DETAIL IS TO MORE COMPLETELY SHOW THE FINISHED ASSEMBLY OF CRANE BEAM TO COLUMN CONNECTIONS. REFER TO THE CRANE PLAN AND/OR STRUCTURAL ELEVATIONS FOR LOCATIONS OF ANGLE BRACING AND BRACE STRUTS, AS WELL AS PART NUMBERS.

VIEW A SHOWS THE ANGLE BRACE CONNECTION FROM THE COLUMN CAP PLATE TO THE CRANE BEAM.

VIEW B SHOWS THE TIE-BACK CLIP CONNECTION FROM THE CRANE BEAM TO THE COLUMN.

VIEW C IS AN ENLARGED VIEW OF THE TIE-BACK CLIP CONNECTION.

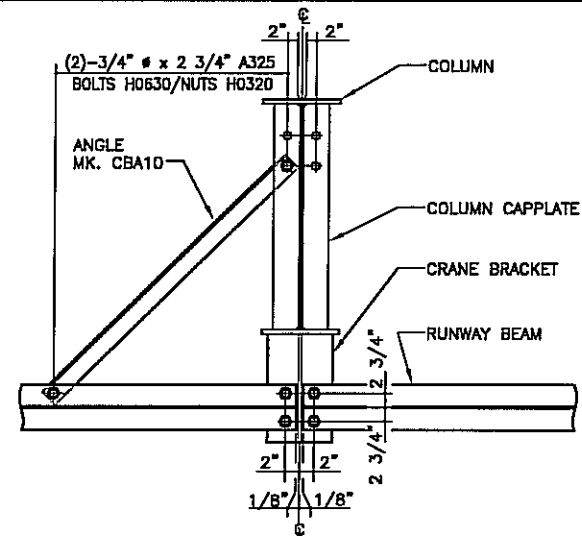
SEE THE RAIL TO RUNWAY BEAM CONNECTION DETAILS (EITHER HOOK BOLT OR FLOATING CLAMP DETAIL) FOR ADDITIONAL CONNECTION REQUIREMENTS.

SEE THE ADDITIONAL CRANE DETAILS, PLANS, OR FRAME CROSS SECTIONS FOR MATERIAL SIZES, CRITICAL DIMENSIONS, AND LOAD INFORMATION.

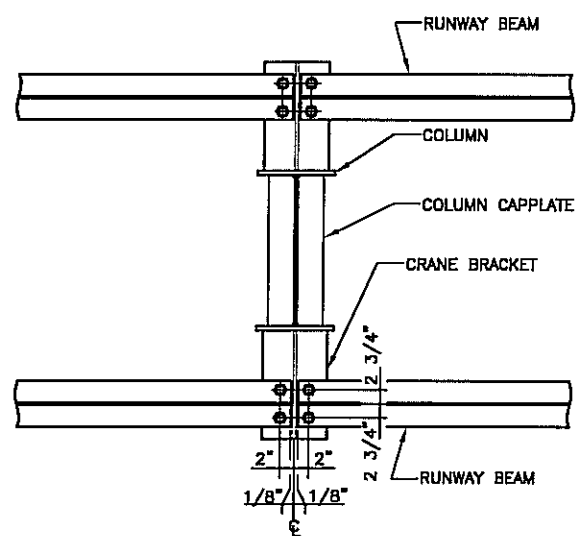
IMPORTANT NOTE: FIELD SLOTTING OF LATERAL TIE BACK PLATE OR ANGLES IS NOT PERMITTED. FIELD MODIFICATION OF THIS CONNECTION WILL ADVERSELY AFFECT THE STRUCTURAL PERFORMANCE AND INTEGRITY OF THE CRANE RUNWAY SYSTEM.

\*\* - NOTE: SHIM PACK PLATES PROVIDED IF REQUIRED BETWEEN THE TIE BACK ANGLES & THE COLUMN FLANGE.

**TOP-RUNNING BRIDGE CRANE ASSEMBLY DETAILS** (1) D6  
(RUNWAY BEAM TO BRACKET CONNECTION)



**TOP RUNNING BRIDGE CRANE DETAIL** (3) D6  
RUNWAY BEAM TO COLUMN BRACING (TYPICAL UNLESS NOTED OTHERWISE)



**TOP RUNNING BRIDGE CRANE DETAIL** (7) D6  
RUNWAY BEAM TO COLUMN

ISSUE	DATE
PERMITS	5/23/08
APPROVALS	JET
CRANE CONFIRMATION	5/23/08
FINAL ERECTION	5/23/08
	8/20/08

**NUCOR BUILDING SYSTEMS**  
PO BOX 1006, 200 WHELISTONE RD.  
SWANSEA, SC 29160  
PHONE: (803) 568-2100  
FAX: (803) 568-2121

PROJECT NAME: OLYMPIC STEEL  
SUMTER, SC  
CUSTOMER: THOMPSON TURNER CONSTRUCTION CO.  
SUMTER, SC

JOB NUMBER: SOBA0248A

SHEET NO: D6 of 23

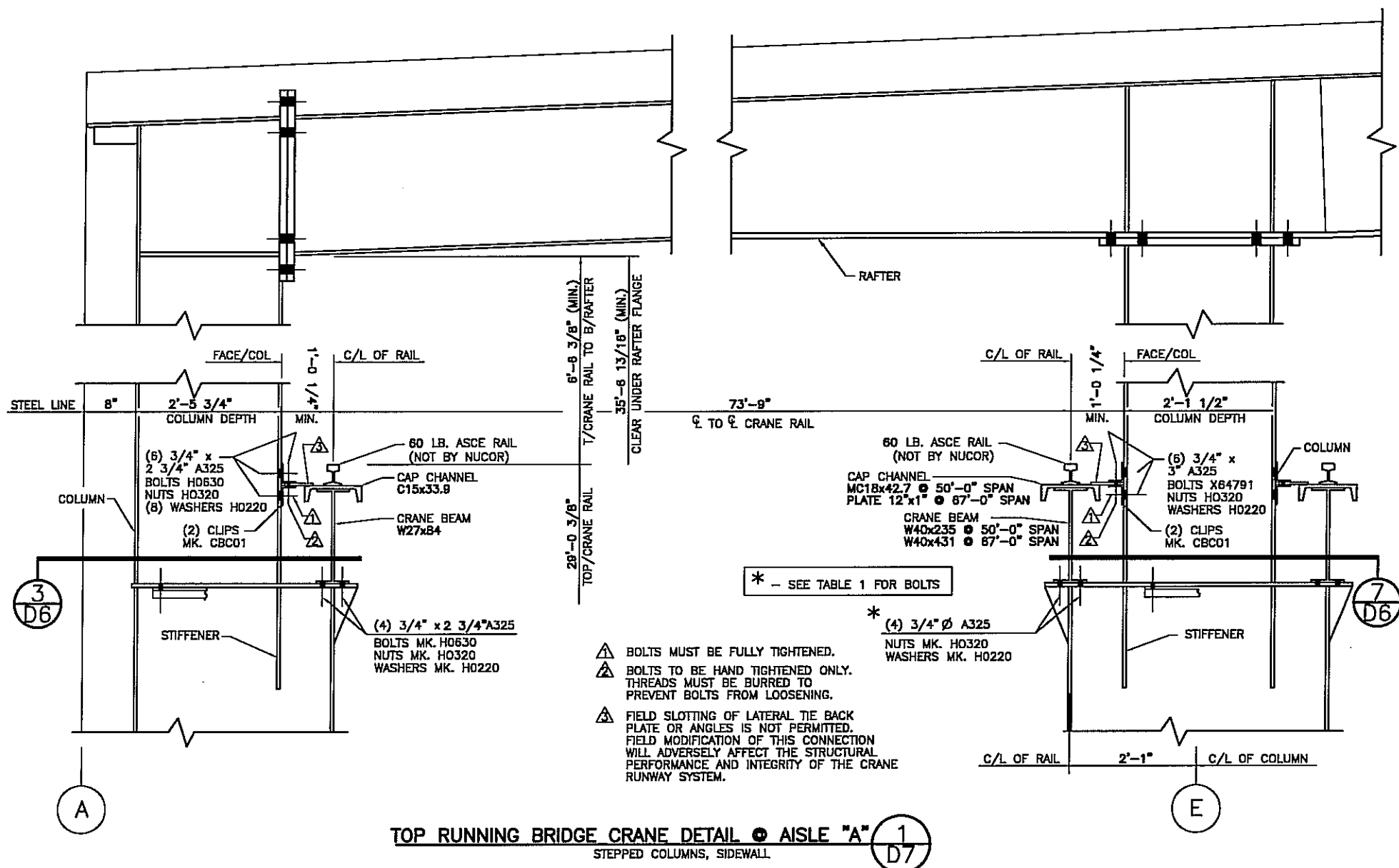


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TOP RUNNING BRIDGE CRANE DETAIL @ AISLE "A" 1  
 STEPPED COLUMNS, SIDEWALL. D7

TABLE 1: AISLE "A" @ LINE E

BOLT LENGTH	BOLT PART MK.	CRANE BEAM	LOCATION
3 3/4"	X64793	MXC17 MXC18 MXC20	LINES 10-18
4 1/2"	X64794	MXC19	LINES 5-8
6"	X64796	MXC20	LINE 8

ISSUE	DATE	BY	CHK	ENG	DATE	BY	CHK	ENG
PERMITS					5/23/08	JET		
APPROVALS					5/23/08	JET		
CRANE CONFIRMATION					5/23/08	JET		
FINAL ERECTION					8/20/08	JET		

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 CUSTOMER: THOMPSON TURNER CONSTRUCTION CO.  
 SUMTER, SC

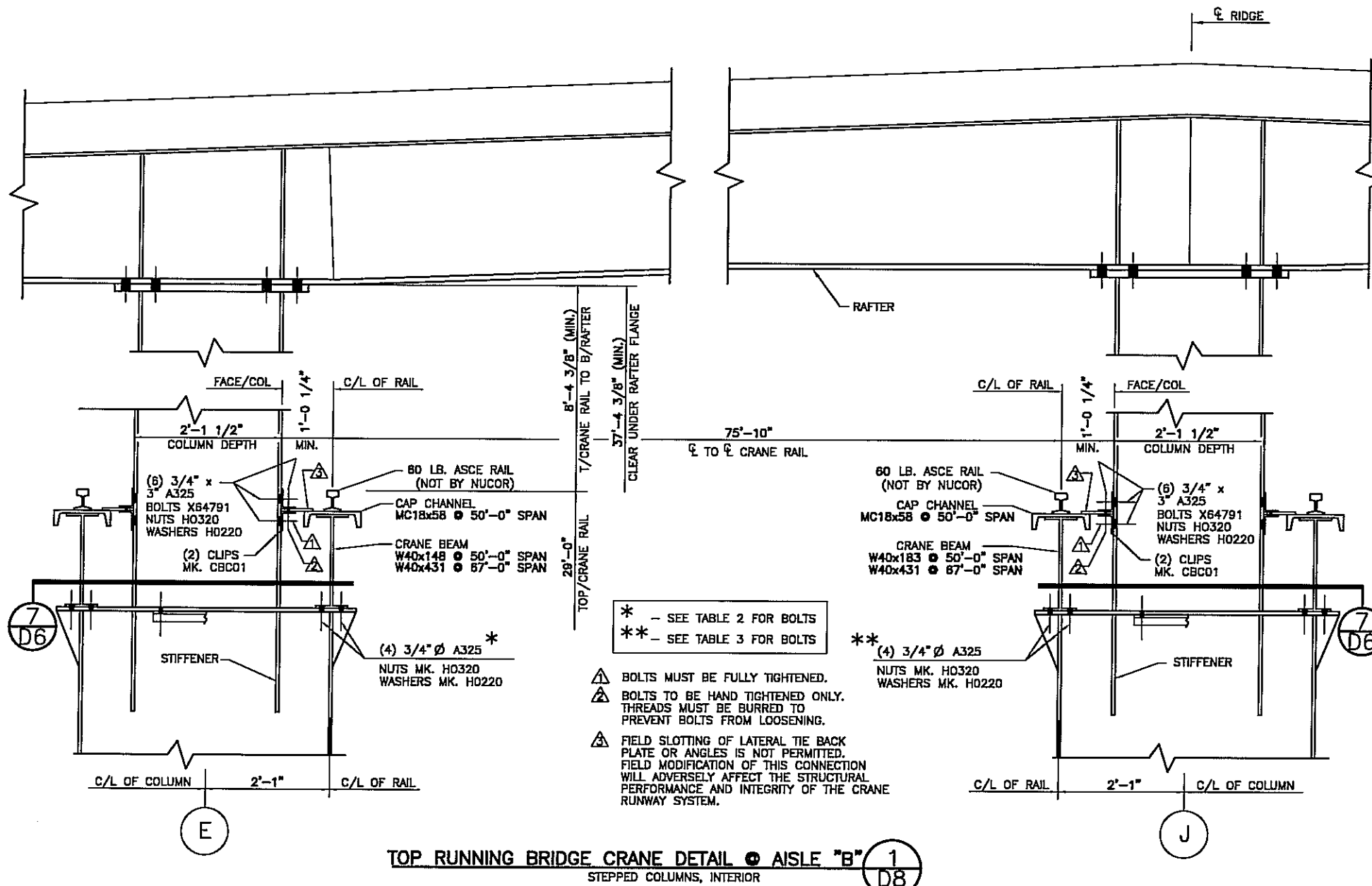
JOB NUMBER: S08A0248A

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TOP RUNNING BRIDGE CRANE DETAIL @ AISLE "B" 1  
D8

- \* - SEE TABLE 2 FOR BOLTS
- \*\* - SEE TABLE 3 FOR BOLTS
- ⚠ BOLTS MUST BE FULLY TIGHTENED.
- ⚠ BOLTS TO BE HAND TIGHTENED ONLY. THREADS MUST BE BURRED TO PREVENT BOLTS FROM LOOSENING.
- ⚠ FIELD SLOTTING OF LATERAL TIE BACK PLATE OR ANGLES IS NOT PERMITTED. FIELD MODIFICATION OF THIS CONNECTION WILL ADVERSELY AFFECT THE STRUCTURAL PERFORMANCE AND INTEGRITY OF THE CRANE RUNWAY SYSTEM.

BOLT LENGTH	BOLT PART MK.	CRANE BEAM	LOCATION
3 1/2"	X64792	MXC15 MXC16 MXC22	LINES 10-18
5 1/2"	X64797	MXC21	LINES 5-8
6"	X64796	MXC22	LINE 8

ISSUE	DATE	BY	CHK	ENG	P.E.
PERMITS	5/23/08	JH/MS	NDD	JET	JET
APPROVALS	5/23/08	JH/MS	NDD	JET	JET
CRANE CONFORMANCE	5/23/08	JH/MS	NDD	JET	JET
FINAL ERECTION	8/20/08	DB/MS/LB/NL	JET	JET	JET

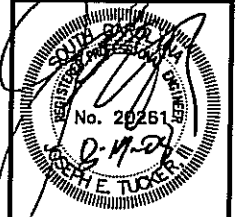
BOLT LENGTH	BOLT PART MK.	CRANE BEAM	LOCATION
3 1/2"	X64792	MXC15 MXC16	LINES 10-18
4 1/2"	X64794	MXC23	LINES 5-8
5"	X64795	MXC24	LINE 8

**NUCOR**  
BUILDING SYSTEMS  
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SWANSEA, SC 29160  
PHONE: (803) 568-2100  
FAX: (803) 568-2121

PROJECT NAME: OLYMPIC STEEL  
SUMTER, SC  
CUSTOMER: THOMPSON TURNER CONSTRUCTION CO.  
SUMTER, SC

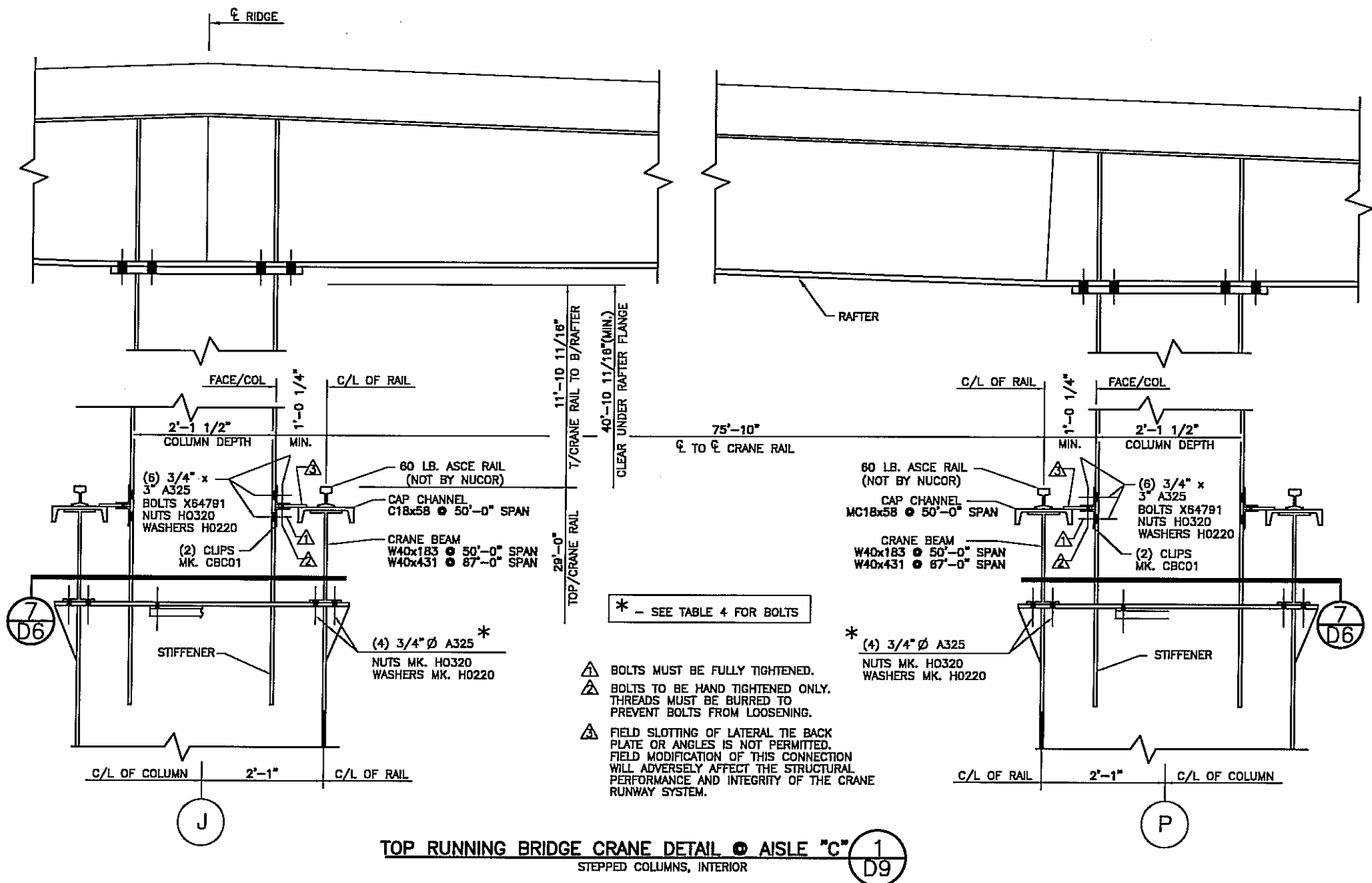
JOB NUMBER: S08A0248A

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TOP RUNNING BRIDGE CRANE DETAIL @ AISLE "C" 1 D9  
 STEPPED COLUMNS, INTERIOR

- \* - SEE TABLE 4 FOR BOLTS
- ⚠ BOLTS MUST BE FULLY TIGHTENED.
- ⚠ BOLTS TO BE HAND TIGHTENED ONLY. THREADS MUST BE BURRED TO PREVENT BOLTS FROM LOOSENING.
- ⚠ FIELD SLOTTING OF LATERAL TIE BACK PLATE OR ANGLES IS NOT PERMITTED. FIELD MODIFICATION OF THIS CONNECTION WILL ADVERSELY AFFECT THE STRUCTURAL PERFORMANCE AND INTEGRITY OF THE CRANE RUNWAY SYSTEM.

TABLE 4: AISLE "C" @ LINES J & P

BOLT LENGTH	BOLT PART MK.	CRANE BEAM	LOCATION
3 1/2"	X64792	MXC15 MXC16 MXC24 MXC25	LINES 10-18
4 1/2"	X64794	MXC23	LINES 5-8
5"	X64795	MXC24 MXC25	LINE 8

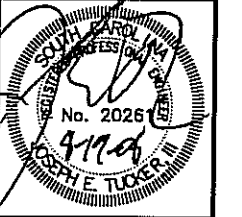
ISSUE	DATE	BY	CHK	ENG
PERMITS	5/23/08	JH/MS	NDD	JET
APPROVALS	5/23/08	JH/MS	NDD	JET
CRANE CONFIGURATION	5/23/08	JH/MS	NDD	JET
FINAL ERECTION	8/20/08	DB/ASL/HL	JA	

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 FAX: (803) 568-2121

PROJECT NAME: OLYMPIC STEEL  
 SUMTER, SC  
 CUSTOMER: THOMPSON TURNER CONSTRUCTION CO.  
 SUMTER, SC

JOB NUMBER: S08A0248A

SHEET NO: D9 of 23



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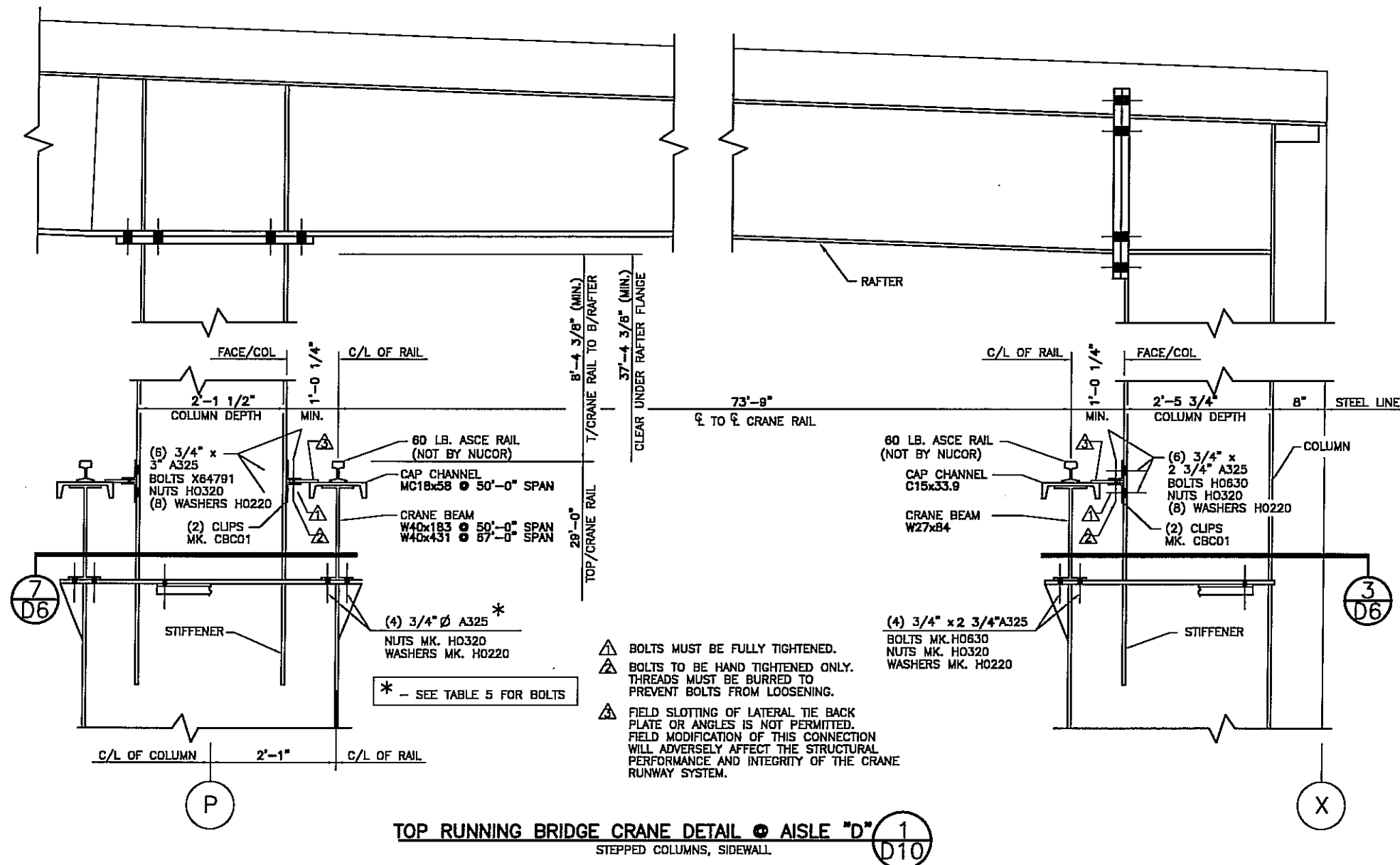


TABLE 5: AISLE "D" @ LINE P

BOLT LENGTH	BOLT PART MK.	CRANE BEAM	LOCATION
3 1/2"	X64792	MXC15 MXC16 MXC25	LINES 10-18
4 1/2"	X64794	MXC23	LINES 5-8
5"	X64795	MXC25	LINE 8

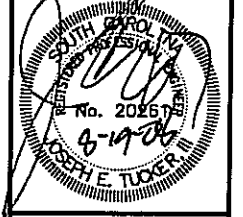
DATE	ISSUE	APPROVALS
5/23/08	PERMITS	JH/MS
5/23/08	APPROVALS	JH/MS
5/23/08	CRANE CONFORMANCE	JH/MS
8/20/08	FINAL ERECTION	DB/MS/BJ/AL

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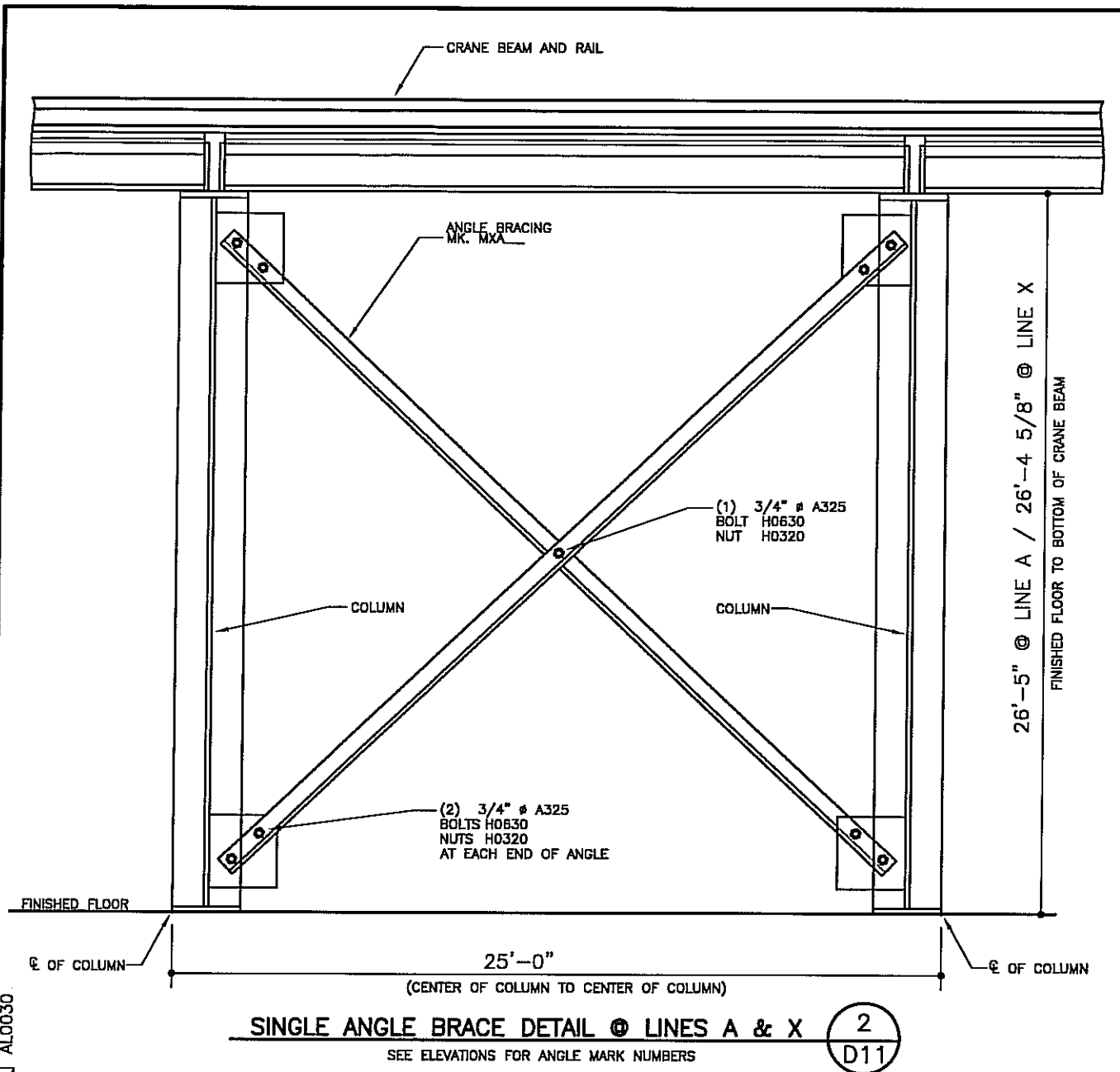
PROJECT NAME: OLYMPIC STEEL  
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 CUSTOMER: THOMPSON TURNER CONSTRUCTION CO.  
 SUMTER, SC

JOB NUMBER: S08A0248A  
 SHEET NO: D10 of 23

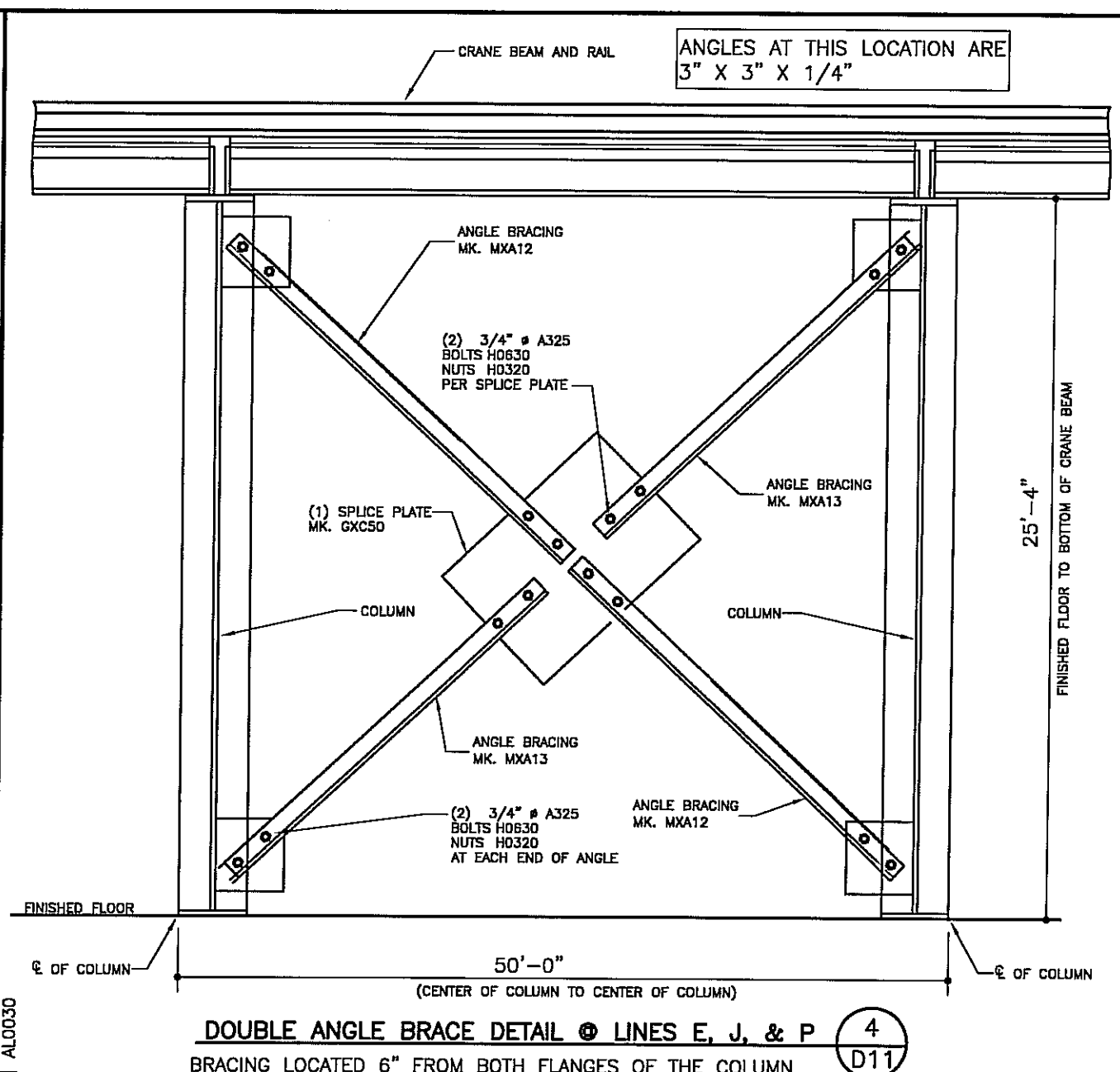
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**SINGLE ANGLE BRACE DETAIL @ LINES A & X** (2) (D11)  
SEE ELEVATIONS FOR ANGLE MARK NUMBERS



**DOUBLE ANGLE BRACE DETAIL @ LINES E, J, & P** (4) (D11)  
BRACING LOCATED 6" FROM BOTH FLANGES OF THE COLUMN

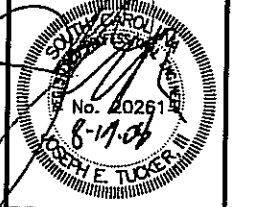
ISSUE	DATE	BY	CHK	ENG	P.E.
PERMITS	5/23/08	JH/MS	NDD	JET	JET
APPROVALS	5/23/08	JH/MS	NDD	JET	JET
CRANE CONFIRMATION	5/23/08	JH/MS	NDD	JET	JET
FINAL ERECTION	8/20/08	DB/MS/LB/NL	ST		

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PROJECT NAME: OLYMPIC STEEL  
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CUSTOMER: THOMPSON TURNER CONSTRUCTION CO.  
SUMTER, SC

JOB NUMBER: S08A0248A

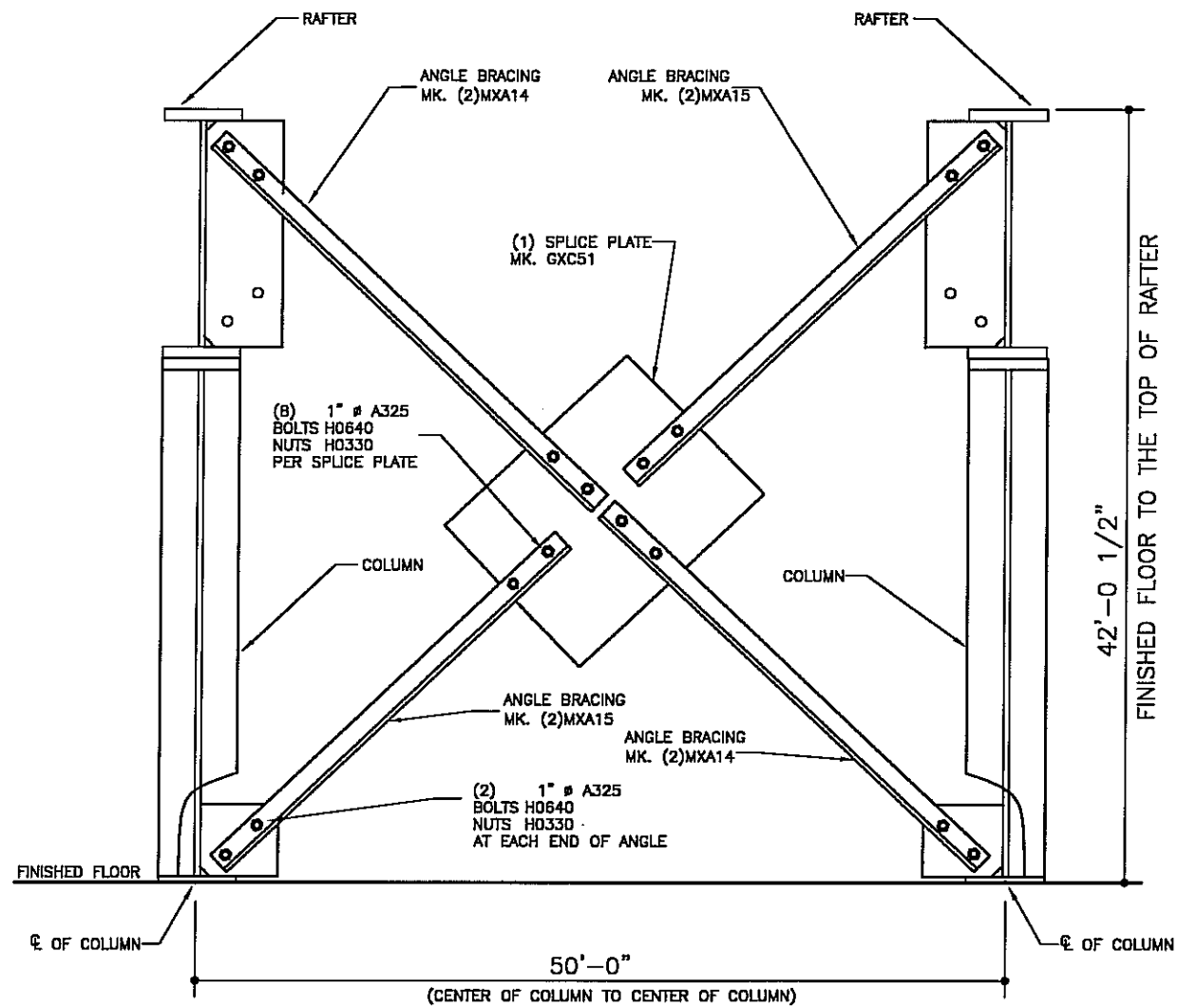
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ANGLES AT THIS LOCATION ARE  
4" X 4" X 5/16"

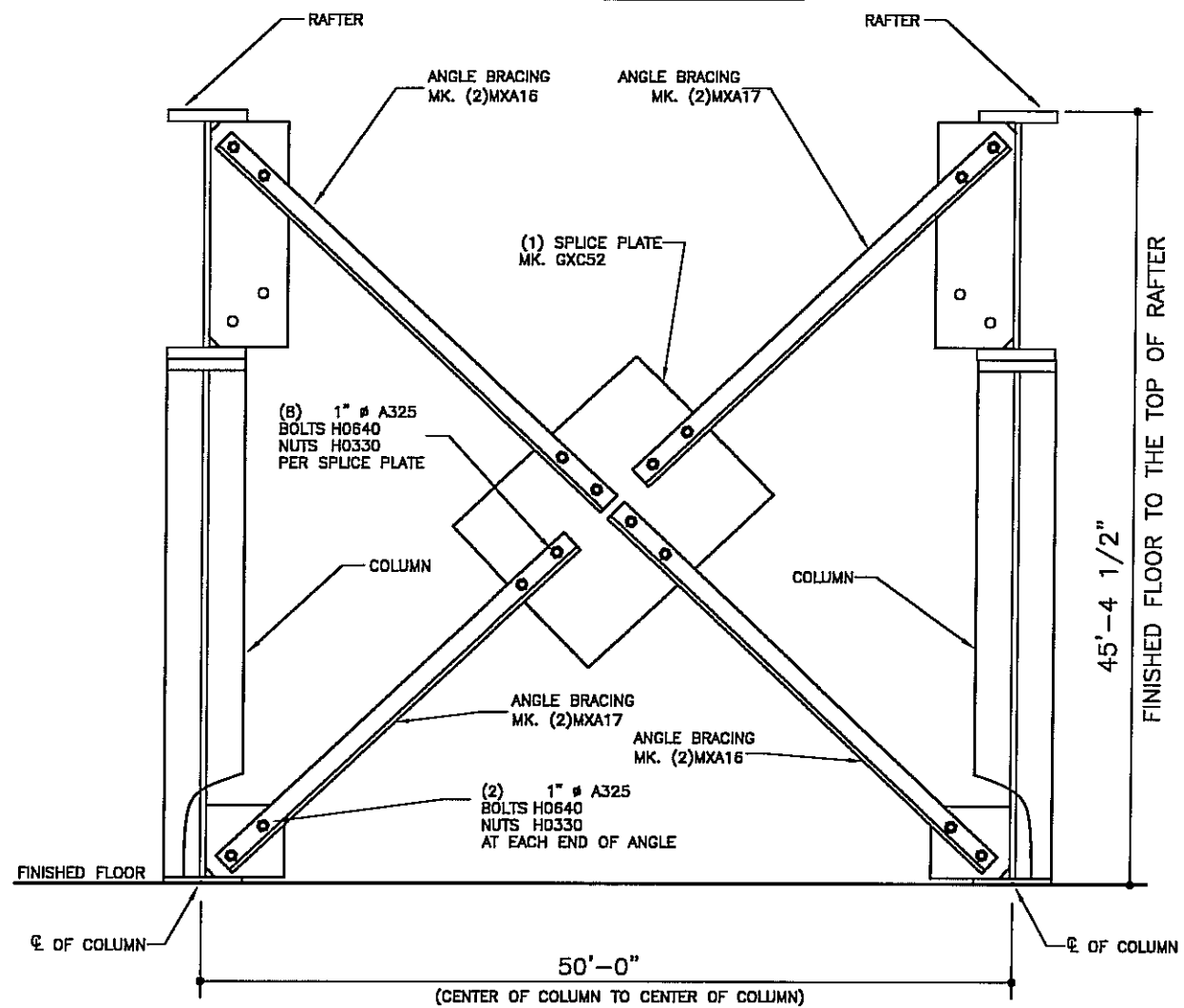


DOUBLE ANGLE BRACE DETAIL @ LINES E & P

BRACING LOCATED IN THE CENTER OF THE COLUMN

2  
D11.5

ANGLES AT THIS LOCATION ARE  
4" X 4" X 5/16"



DOUBLE ANGLE BRACE DETAIL @ LINE J

BRACING LOCATED IN THE CENTER OF THE COLUMN

4  
D11.5

DATE	P.E.	ENG.	CHK.	DWN.	ISSUE
5/23/08	JET	JET	JET	JH/MS	PERMITS
5/23/08	JET	JET	JET	JH/MS	APPROVALS
5/23/08	JET	JET	JET	JH/MS	CRANE CONFIRMATION
8/20/08				DB/MS/BL/NT	FINAL ERECTION

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CUSTOMER:  
THOMPSON TURNER CONSTRUCTION CO.  
SUMTER, SC

JOB NUMBER:  
S08A0248A

SHEET NO:  
D11.5 of 23



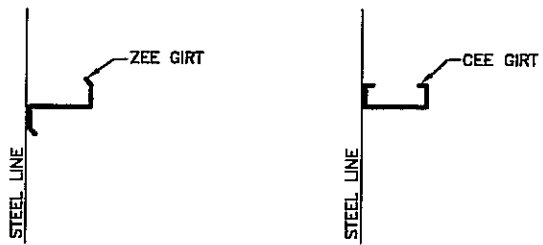
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**ERECTOR NOTE:** UNLESS SPECIFICALLY NOTED OTHERWISE, STANDARD ZEE GIRT ORIENTATION IS TO HAVE THE GIRT TOED DOWN AT THE STEEL LINE AS SHOWN IN THE DETAIL BELOW.

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

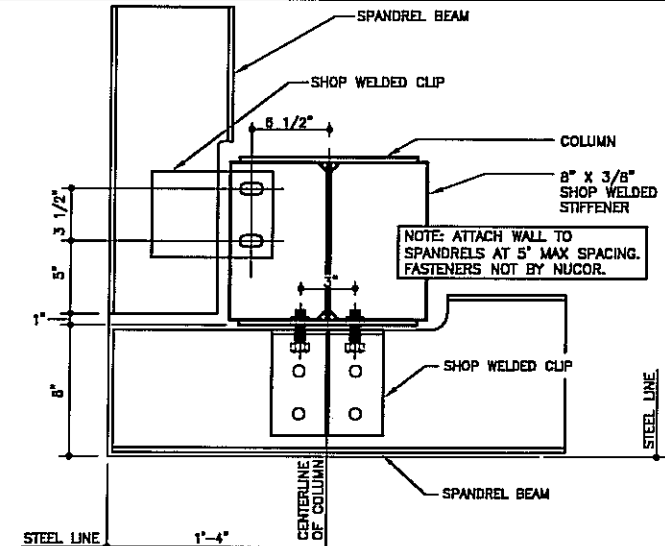
(REFER TO THE GIRT DETAILS FOR SPECIFIC CONNECTION REQUIREMENTS).



ZEE GIRT ORIENTATION CEE GIRT ORIENTATION

**STANDARD GIRT ORIENTATION DETAIL**

SEE GIRT DETAILS FOR GIRT CONNECTIONS (COLUMNS NOT SHOWN)

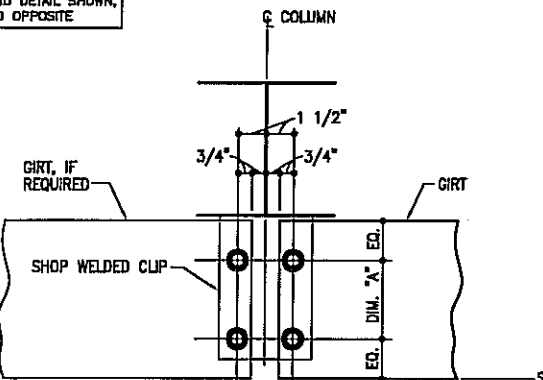


**SPANDREL BEAM CONNECTION**

AT CORNER  
USE (6) 1/2" x 1 1/2" A307 BOLTS AND NUTS  
REFERENCE ERECTOR NOTE FOR TYPICAL WASHER REQUIREMENTS

DIM. "A" = 4" AT 8" & 10" GIRTS  
= 8" AT 12" GIRTS

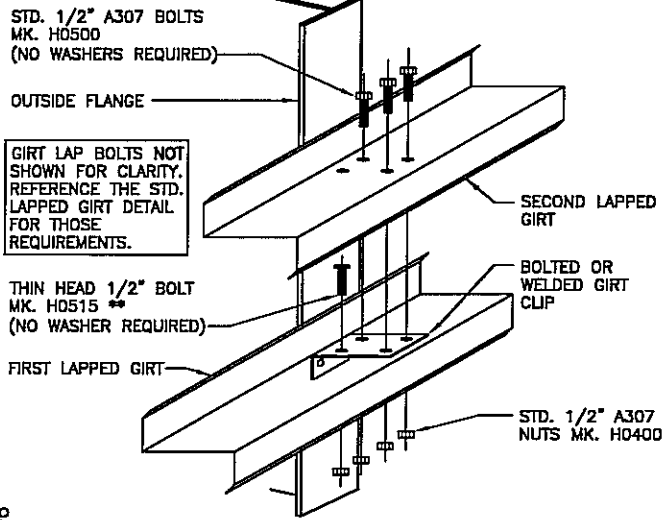
RIGHT HAND DETAIL SHOWN,  
LEFT HAND OPPOSITE



**SW OR EW GIRT DETAIL**

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

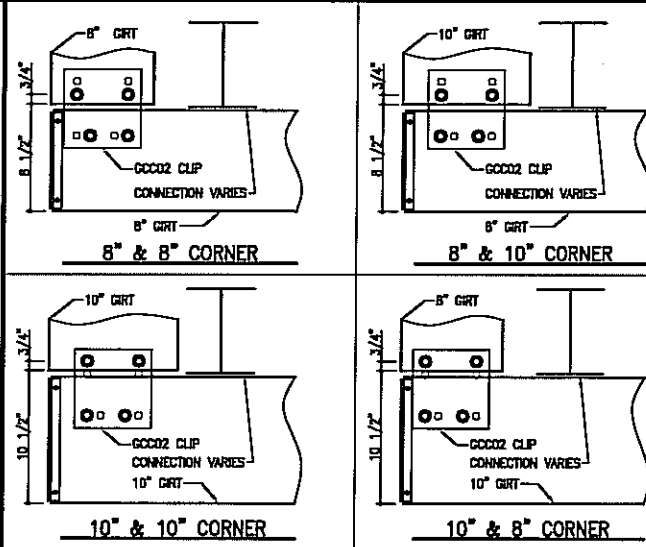
CC1020(K)



CC0006

**LAPPED GIRT DETAIL**

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



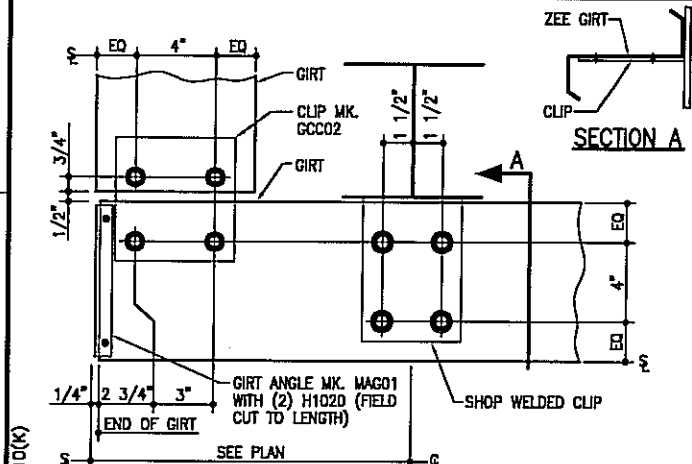
CF1001

**BYPASS GIRT BOLT PLACEMENT DETAIL**

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

**ERECTOR NOTE**

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

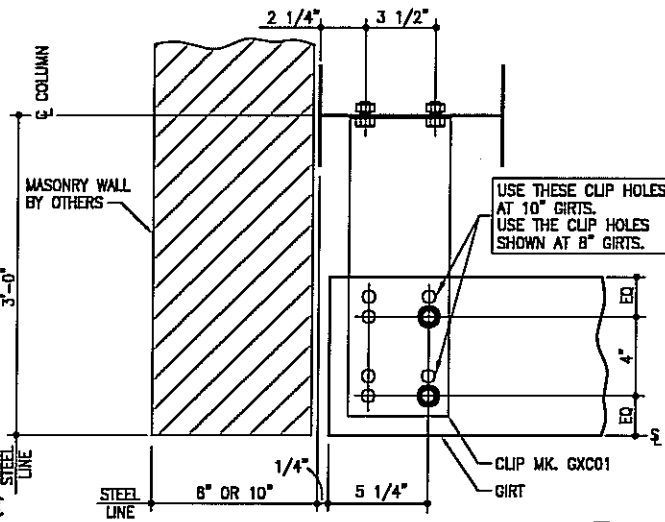


CF1010(K)

**BYPASS GIRT CORNER DETAIL**

LEFT HAND DETAIL SHOWN, RIGHT HAND OPPOSITE  
NOTE: USE (6) 1/2" x 1 1/2" A307 BOLTS H0500/NUTS H0400  
REFERENCE STANDARD WASHER DETAIL FOR TYPICAL WASHER REQUIREMENTS

4  
D12

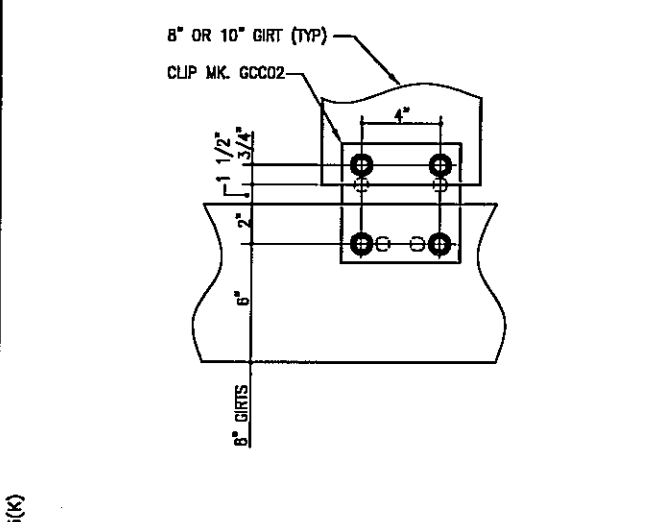


CF0275(K)

**GIRT TERMINATION DETAIL**

LEFT HAND DETAIL SHOWN, RIGHT HAND OPPOSITE  
NOTE: USE (6) 1/2" x 1 1/2" A307 BOLTS H0500/NUTS H0400  
REFERENCE STANDARD WASHER DETAIL FOR TYPICAL WASHER REQUIREMENTS

6  
D12

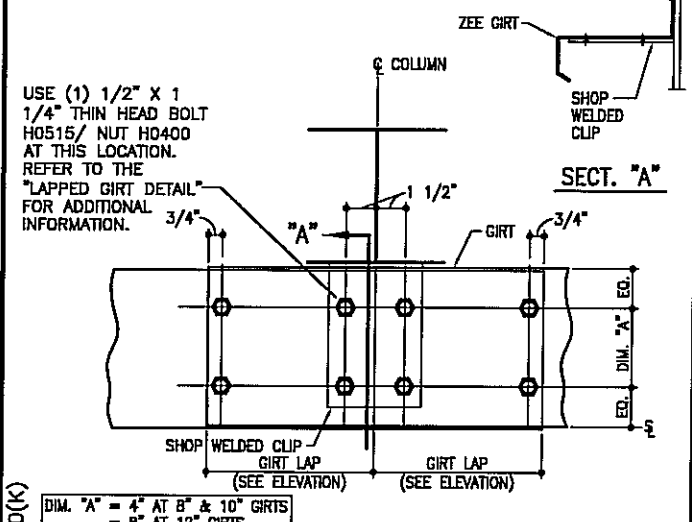


CJ0005(K)

**GIRT TO GIRT DETAIL**

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

7  
D12



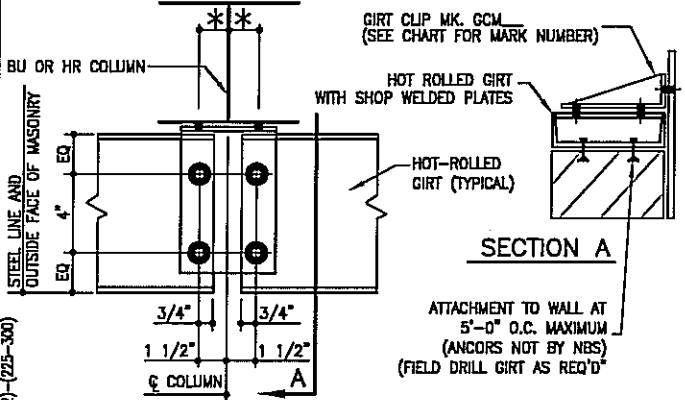
CC1010(K)

**SW OR EW GIRT 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

8  
D12

COLUMN FLANGE WIDTH	*	8" GIRT CLIP	10" GIRT CLIP	12" GIRT CLIP
FLANGE = 4"	1 1/8"	GCM11	GCM12	GCM13
FLANGE > 4"	1 1/2"	GCM01	GCM02	GCM06

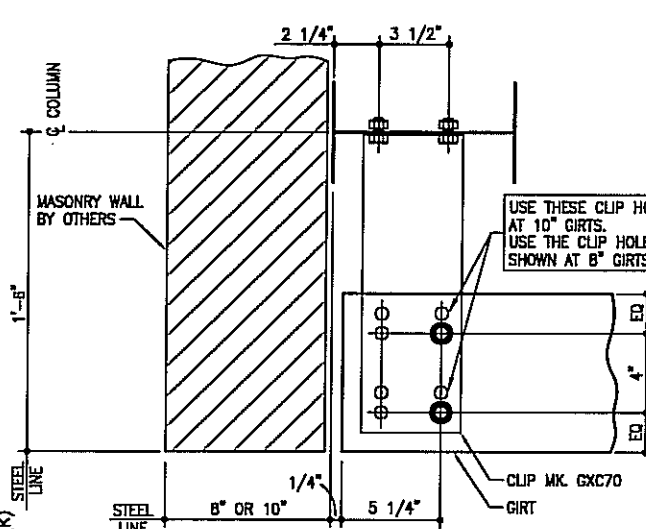


CC0072-(6,10,12)-(225-300)

**NON SELF-SUPPORTING MASONRY**

PARTIAL HEIGHT MASONRY (HOT-ROLLED GIRT ON TOP OF WALL)  
USE (6) 1/2" x 1 1/2" A307 BOLTS (H0500) & NUTS (H0400)  
REFERENCE ERECTOR NOTE FOR TYPICAL WASHER REQUIREMENTS

10  
D12



CF0275(K)

**GIRT TERMINATION DETAIL**

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

11  
D12

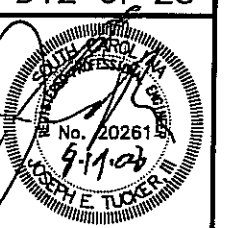
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5/23/08	JET	JET	JET	JET	JET
8/20/08	JET	JET	JET	JET	JET

**NUCOR BUILDING SYSTEMS**  
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PROJECT NAME:  
OLYMPIC STEEL  
SUMNER, SC  
CUSTOMER:  
THOMPSON TURNER CONSTRUCTION CO.  
SUMNER, SC

JOB NUMBER:  
S08A0248A

SHEET NO:  
D12 of 23



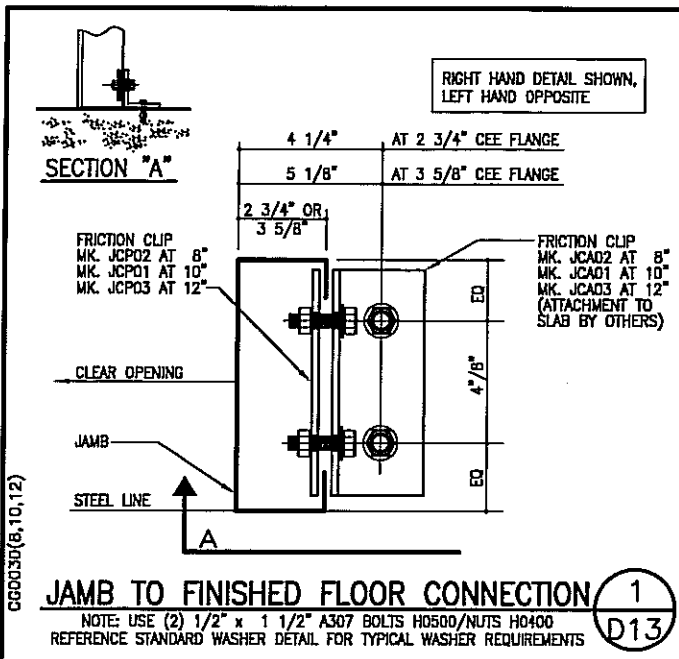
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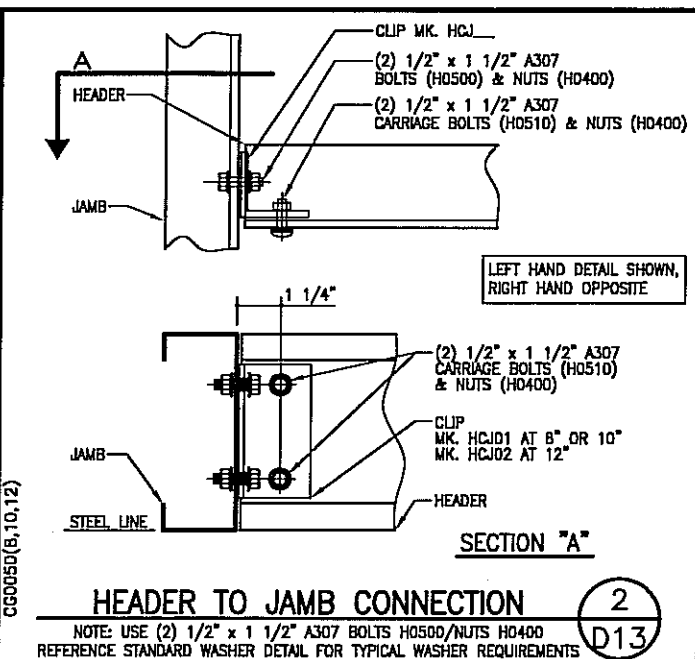
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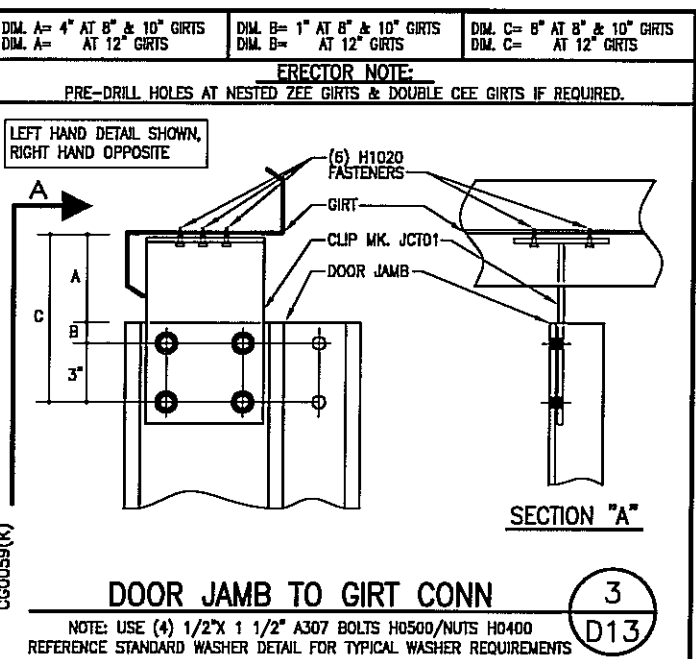




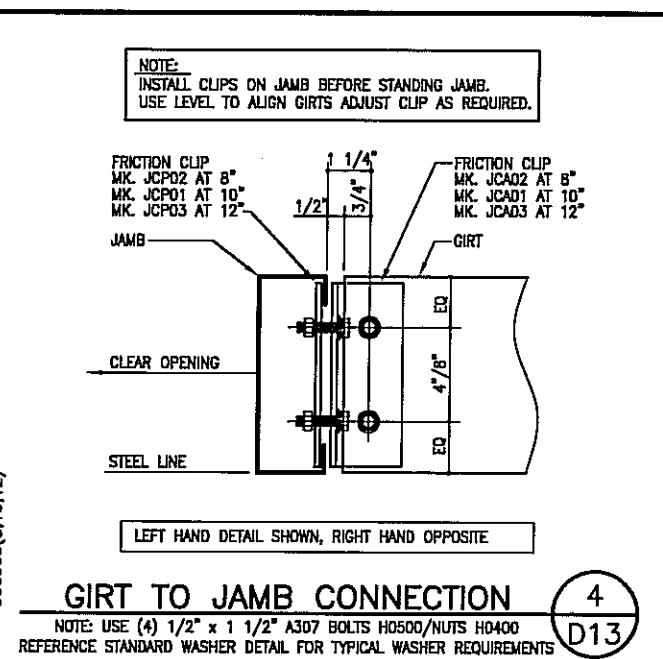
**JAMB TO FINISHED FLOOR CONNECTION** (1) D13  
 NOTE: USE (2) 1/2" x 1 1/2" A307 BOLTS H0500/NUTS H0400  
 REFERENCE STANDARD WASHER DETAIL FOR TYPICAL WASHER REQUIREMENTS



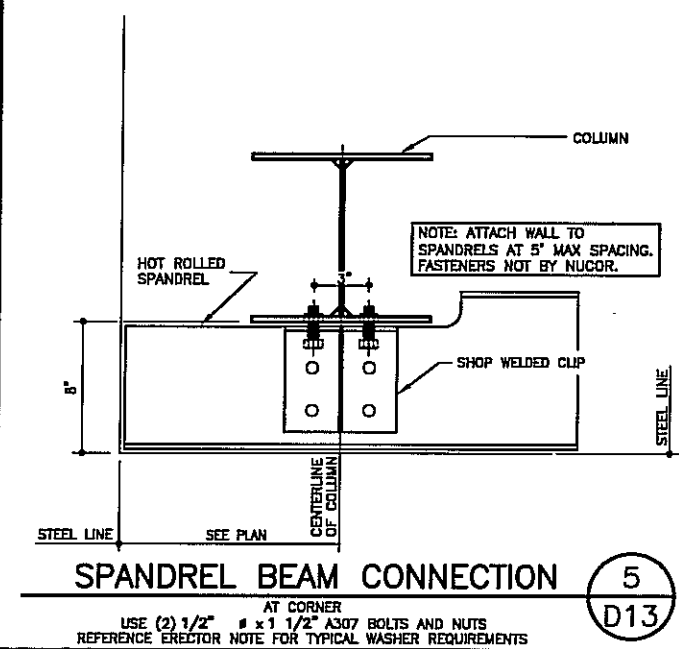
**HEADER TO JAMB CONNECTION** (2) D13  
 NOTE: USE (2) 1/2" x 1 1/2" A307 BOLTS H0500/NUTS H0400  
 REFERENCE STANDARD WASHER DETAIL FOR TYPICAL WASHER REQUIREMENTS



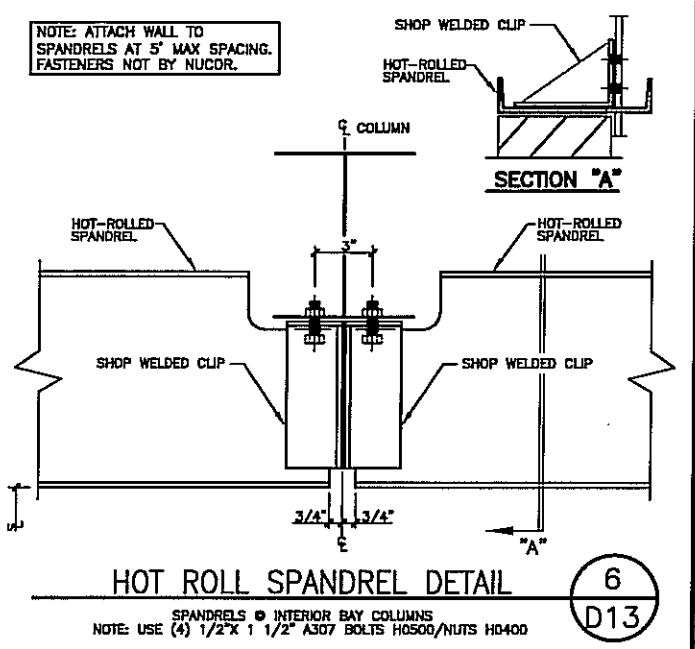
**DOOR JAMB TO GIRTS CONNECTION** (3) D13  
 NOTE: USE (4) 1/2" x 1 1/2" A307 BOLTS H0500/NUTS H0400  
 REFERENCE STANDARD WASHER DETAIL FOR TYPICAL WASHER REQUIREMENTS



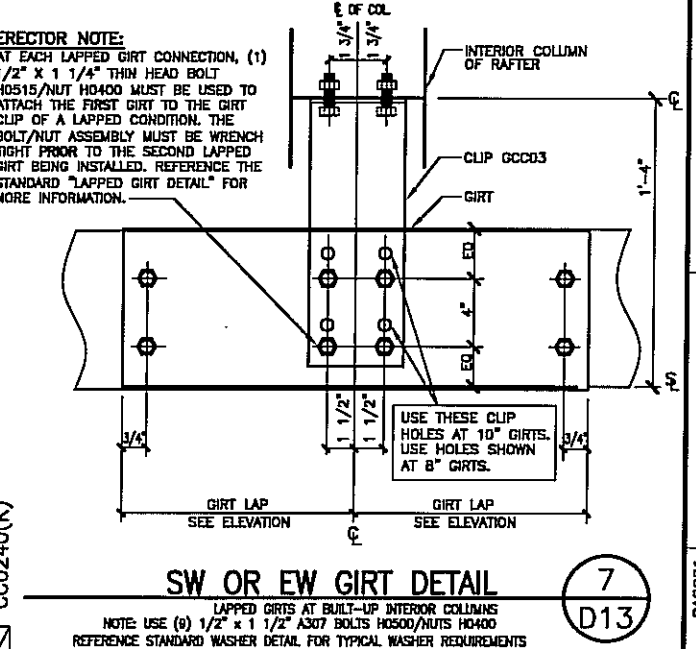
**GIRTS TO JAMB CONNECTION** (4) D13  
 NOTE: USE (4) 1/2" x 1 1/2" A307 BOLTS H0500/NUTS H0400  
 REFERENCE STANDARD WASHER DETAIL FOR TYPICAL WASHER REQUIREMENTS



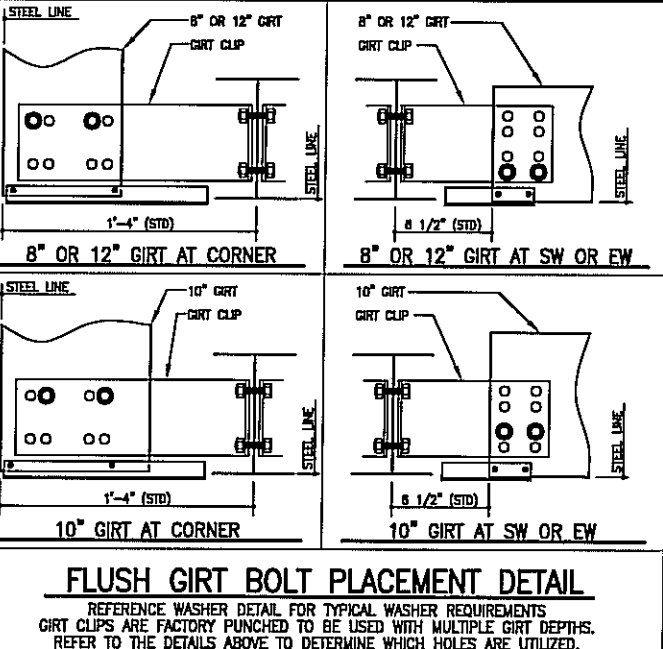
**SPANDREL BEAM CONNECTION** (5) D13  
 AT CORNER  
 USE (2) 1/2" x 1 1/2" A307 BOLTS AND NUTS  
 REFERENCE ERECTOR NOTE FOR TYPICAL WASHER REQUIREMENTS



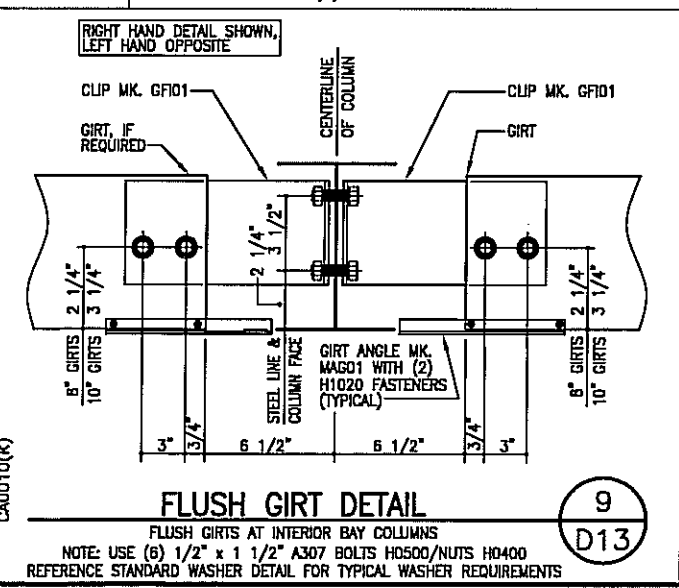
**HOT ROLL SPANDREL DETAIL** (6) D13  
 SPANDRELS @ INTERIOR BAY COLUMNS  
 NOTE: USE (4) 1/2" x 1 1/2" A307 BOLTS H0500/NUTS H0400



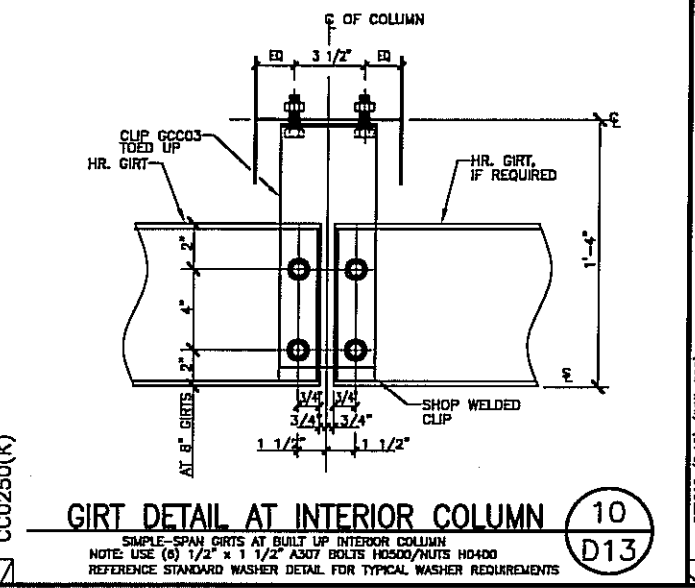
**SW OR EW GIRTS CONNECTION** (7) D13  
 LAPPED GIRTS AT BUILT-UP INTERIOR COLUMNS  
 NOTE: USE (8) 1/2" x 1 1/2" A307 BOLTS H0500/NUTS H0400  
 REFERENCE STANDARD WASHER DETAIL FOR TYPICAL WASHER REQUIREMENTS



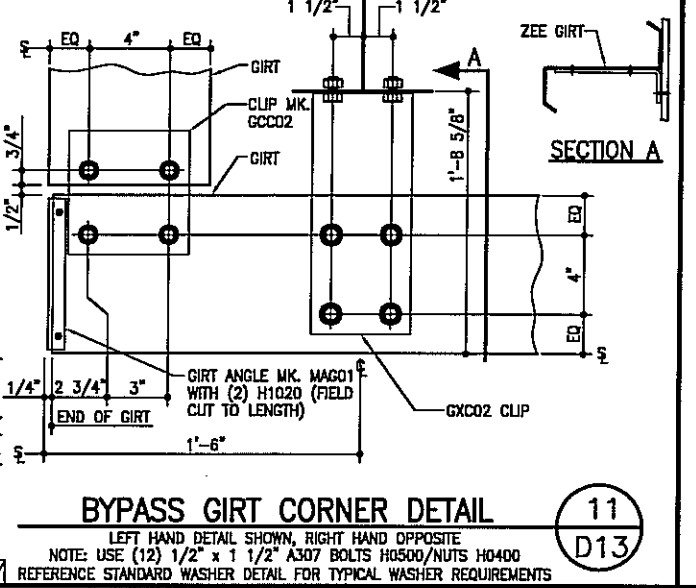
**FLUSH GIRTS BOLT PLACEMENT DETAIL** (8) D13  
 REFERENCE WASHER DETAIL FOR TYPICAL WASHER REQUIREMENTS  
 GIRTS ARE FACTORY PUNCHED TO BE USED WITH MULTIPLE GIRTS DEPTHS.  
 REFER TO THE DETAILS ABOVE TO DETERMINE WHICH HOLES ARE UTILIZED.



**FLUSH GIRTS CONNECTION** (9) D13  
 FLUSH GIRTS AT INTERIOR BAY COLUMNS  
 NOTE: USE (6) 1/2" x 1 1/2" A307 BOLTS H0500/NUTS H0400  
 REFERENCE STANDARD WASHER DETAIL FOR TYPICAL WASHER REQUIREMENTS



**GIRTS AT INTERIOR COLUMN** (10) D13  
 SIMPLE-SPAN GIRTS AT BUILT-UP INTERIOR COLUMN  
 NOTE: USE (6) 1/2" x 1 1/2" A307 BOLTS H0500/NUTS H0400  
 REFERENCE STANDARD WASHER DETAIL FOR TYPICAL WASHER REQUIREMENTS



**BYPASS GIRTS CORNER DETAIL** (11) D13  
 LEFT HAND DETAIL SHOWN, RIGHT HAND OPPOSITE  
 NOTE: USE (12) 1/2" x 1 1/2" A307 BOLTS H0500/NUTS H0400  
 REFERENCE STANDARD WASHER DETAIL FOR TYPICAL WASHER REQUIREMENTS

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5/23/08	JET				
5/23/08	JET				
8/20/08	JET				

**NUCOR BUILDING SYSTEMS**  
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 FAX: (803) 568-2121

PRODUCT NAME: OLYMPIC STEEL  
 SUMTER, SC  
 CUSTOMER: THOMPSON TURNER CONSTRUCTION CO.  
 SUMTER, SC

JOB NUMBER: SOB0248A  
 SHEET NO: D13 of 23

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# CFR HAND CRIMPING INSTRUCTIONS

**IMPORTANT NOTE:** THE INSTRUCTIONS ON THE PAGE ONLY ADDRESS THE USE OF THE HAND CRIMPING TOOLS. THE INSTRUCTIONS FOR MECHANICAL SEAMING, IF REQUIRED, ARE OUTLINED IN THE CFR SEAMING MANUAL, WHICH IS INCLUDED WITH THE MECHANICAL SEAMER KIT.

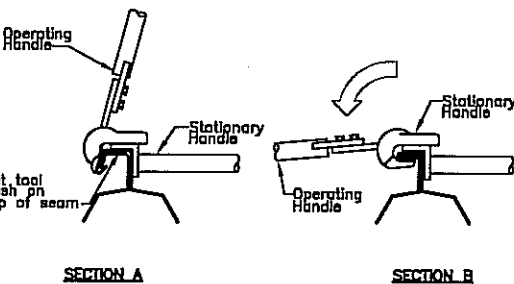
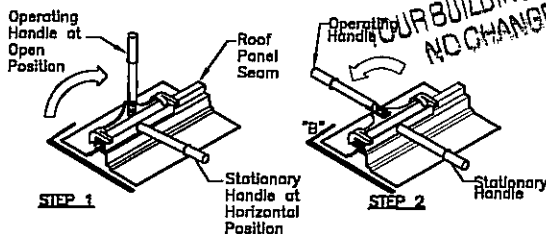
**SPECIALIZED SEAMING AND HAND CRIMPING TOOLS**

The finished seam of the CFR roof panels requires special seaming tools that are available only through NBS. **CAUTION:** The use of other seaming/crimping equipment will result in faulty and/or damaged seams and shall invalidate the roof system's material and weathertightness warranties.

**SEAMING TOOL SOURCE**

The seaming tools are provided by NBS in accordance with the terms and conditions of the NBS contract documents. Contact the NBS Quality Service Representative to arrange scheduling, delivery, and return of the seaming tools.

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**MANUAL CRIMPING TOOL OPERATION**

**NOMENCLATURE**

The detail above identifies the operational parts of the Vise Lock Crimping Tool. This crimping tool shown is for the manually producing the Vise Lock Seam. If your job is required to have the Vise Lock 360 seam then, you will need to manually crimp at the eave of your bldg with a 360 crimper to start the second pass seamer. Instructions on how to do this operation are in the CFR SEAMER MANUAL.

**NOTE:** It is now possible to hand crimp small areas of the roof with a Standup Vise Lock 360 Crimper. Contact the Quality Service Representative at NBS for purchase information of this tool.

**TOOL ORIENTATION TO SEAM**

Orient the tool to fit correctly onto the roof panel seam as shown in Section A above.

**NOTE:** the detail shows a short handled crimping tool, however the tool you receive may be the long handled type, however the orientation of either tool on the seam is the same.

**FORMING THE SEAM**

When the tool is correctly positioned on the panel, push the stationary blade solidly against the top of the seam. While holding the stationary handle in the horizontal position, rotate the operating handle down to the horizontal position. This will form the seam.

**CFR SEAMING REQUIREMENTS**

THE DESIGN OF THIS STRUCTURE REQUIRES THAT THE FOLLOWING SEAMING METHOD BE UTILIZED AS A MINIMUM:

- 1)  "ROLL LOCK"™ SEAM (SEE NOTE 1 AND 2 BELOW)
- 2)  MODIFIED "ROLL LOCK"™ SEAM (SEE DETAIL ON FOLLOWING SHEET)
- 3)  "VISE LOCK"™ SEAM (SEE NOTE 1, 2 AND 3 BELOW)
- 4)  "VISE LOCK 360"™ SEAM (SEE NOTE 2 AND 3 BELOW)

**NOTE 1:** ADDITIONAL SEAMING MAY BE NECESSARY AS SPECIFIED BY THE BUILDER.

**NOTE 2:** MULTIPLE SEAMING TYPES MAY BE REQUIRED. REVIEW THE ROOF SEAMING PLAN CAREFULLY FOR SEAMING REQUIREMENTS.

**NOTE 3:** NOT ALL ROOF SYSTEMS REQUIRE MECHANICAL SEAMING. THE BUYER, OWNER, OR ARCHITECT MAY ELECT TO SPECIFY A MECHANICALLY SEAMED PANEL. OFTEN, FACTORY MUTUAL RATINGS ALSO REQUIRE A SECOND PASS MECHANICAL SEAMER.

SEE IMPORTANT ERECTOR NOTE BELOW ON "VISE LOCK 360" SEAMER REQUIREMENTS.

**WHEN TO SEAM**

Whenever possible, the installed roof panels should be seamed at the completion of each day's work. If high winds or rain/snow conditions are present, the installed roof panels must be seamed before such conditions return.

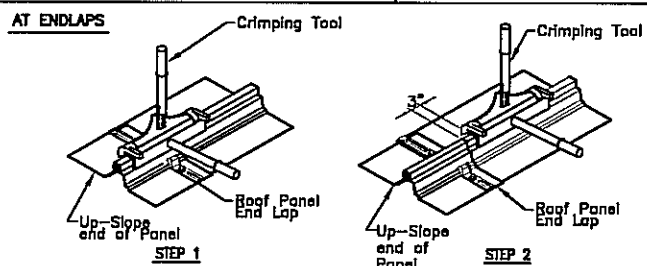
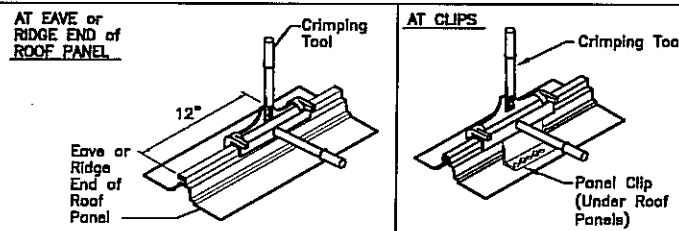
Refer to the project erection drawing Roof Seaming Plan and/or Detail pages to determine what seaming option is required. The above detail conveys the MINIMUM seaming requirements based upon the design of the project. Additional seaming may be necessary as specified by the builder. **NOTE:** multiple seaming types may be required on a project, review the Roof Seaming Plan and details carefully.

For roofs requiring "Vise Lock" or "Vise Lock 360" seaming, it may not always be practical to mechanically seam the panels until after the roof installation is complete. In such cases, it may be desirable to temporarily "Roll Lock" seam the panels with the Hand Crimping Tool. The panels can then be mechanically seamed at a later date.

**IMPORTANT:** It shall be the erector's responsibility to apply the "Roll Lock" hand crimping method in such a way as to ensure that the panels have been adequately secured until mechanical seaming can occur.

**IMPORTANT "Vise Lock 360" seamer Note:**

In order to achieve a good VL360 seam, the erector must have first successfully seamed the roof with the primary seamer ("Vise Lock"™). Before running the VL360 seamer, the erector needs to hand crimp the "Vise Lock"™ seam into the "Vise Lock 360"™ seam. See the CFR seamer erection manual for your specific hand crimping application. **NOTE:** It is now possible to hand crimp small areas of the roof with a Standup Vise Lock 360 crimper. Contact the Quality Service Representative at NBS for purchase information of this tool.



**MANUAL CRIMPING AT EAVE, ENDLAP, RIDGE AND AT EACH CLIP**

**TOOL POSITION AT THE END OF THE ROOF PANEL:** When hand crimping at the eave or ridge end of the roof panel, crimp panel a full 12" up from the eave and down from the ridge.

**TOOL POSITION AT PANEL CLIPS:** When crimping at a panel clip location, center the tool over the panel clip and crimp that area, as shown in Detail above.

**TOOL POSITION AT AN END LAP:** When crimping at an end lap, the crimping must be done in two steps.

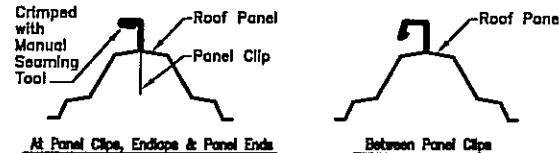
**STEP 1** Center the end of the crimping tool over the end lap and seam that area.

**STEP 2** Position the end of the crimping tool 3" from the edge of the end lap and seam that area to ensure that the panel clip at this location is also crimped.

**CFR SEAM TYPES**

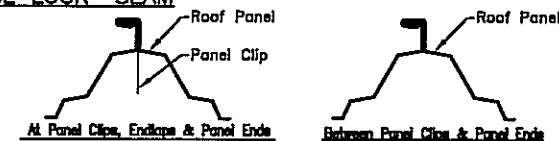
The NBS CFR roof system has three seam type options. The project design and performance requirements govern which seam type is required. Different seam types may be required on specific areas of the roof. In all cases, refer to the Roof Seaming Plan in erection drawings set to determine the required seam type and locations.

**"ROLL LOCK" SEAM**



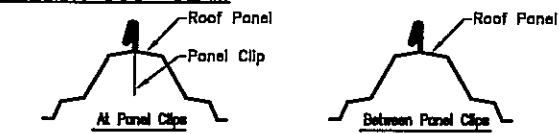
The "Roll Lock" Seam requires the roof panels be crimped with the hand crimping tool only at the panel clips, the eave, the high side of the roof panels, and the end laps. The Motorized Seaming Machine is not required for this seam type. **NOTE:** Continually hand crimping along the seam will produce a Vise Lock Seam.

**"VISE LOCK" SEAM**

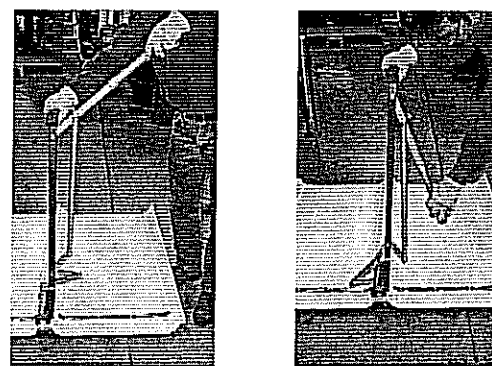


The "Vise Lock" seam requires crimping the roof panel with the VL Crimping Tool at the starting eave or ridge end of the panel, and at the end laps, then seaming the full length of the roof panels with the Motorized Seaming Machine. Refer to the CFR SEAMING MANUAL for specific instructions. This manual is included in the Mechanical Seamer Kit.

**"VISE LOCK 360" SEAM**



The "Vise Lock 360" seam requires that the panels be previously "Vise Lock" seamed and/or hand crimped. Refer to the CFR SEAMING MANUAL for specific motorized seaming instructions. This manual is included in the Motorized Seamer Kit. **NOTE:** It is now possible to hand crimp small areas of the roof with a Standup Vise Lock 360 Crimper. Contact the Quality Service Representative at NBS for purchase information of this tool.



**MANUAL CRIMPING WITH THE STAND-UP VISE LOCK CRIMPER**

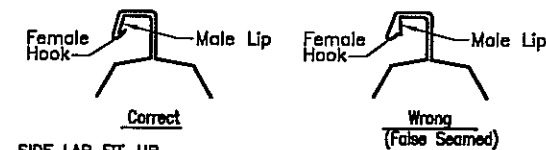
The Manual Crimping procedure for this stand-up Vise Lock crimper is the same procedure as the small Vise Lock hand crimper. This crimper is designed to be used in conjunction with the stand-up Vise Lock 360 crimper. Continually crimping with this crimper will result in a Vise Lock Seam.

**TOOL OPERATION**

**STEP 1** With the handle in the upward position, place the VL crimper on panel rib. Make sure the crimper head is completely down on the top of the panel rib before crimping.

**STEP 2** Push down on the handle until it stops. Release and slide the crimper approximately 4" and repeat step #1.

**CHECK PANEL ASSEMBLY**



**SIDE LAP FIT-UP**

Before seaming and/or crimping, inspect the full length of each roof panel side lap. Check that the lip at the panel's male edge is enclosed by the hook of the adjacent panel's female edge, as shown in the detail above. Any conditions where the male lip is not positioned inside of the female hook must be corrected before attempting to seam/crimp the roof panels.

**CAUTION:** False seaming may occur where the female lip does not hook the roof panel's male edge. False seamed roof panels cannot provide their designed wind load and weather resistance.

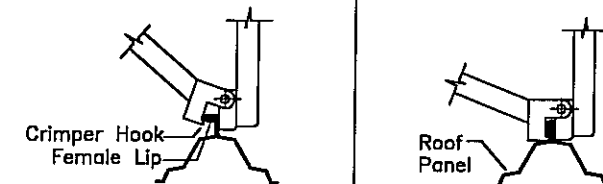
**CLIP ALIGNMENT**

Before seaming and/or crimping, check that each roof panel clip is properly seated in the roof side lap assembly. Any displaced clips must be corrected before attempting to seam the roof panels.

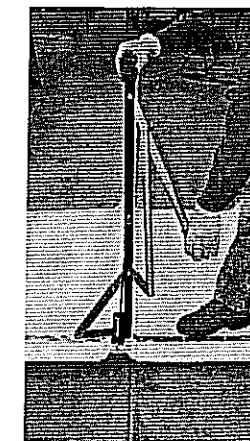
**CAUTION:** Panel clips that are not properly aligned can cause faulty seaming/crimping and objectionable seam appearance.

**SEAM DAMAGE**

Before seaming, check that the male and female edges do not have kinks or other distortions. Any such distortions must be corrected before attempting to seam the roof panels.



STEP 1



STEP 2

**MANUAL CRIMPING WITH THE STAND-UP VISE LOCK 360 CRIMPER.**

**TOOL OPERATION**

**Step 1** After the area has been completely seamed or crimped to form the VISE LOCK SEAM, place the VISE LOCK 360 tool over the area with the handle in the upward position.

**Step 2** Push the handle down until it stops. Release handle and move tool approximately 4", repeat step #1.

**IMPORTANT:** If the 360 tool does not form the VISE LOCK 360 seam correctly, then stop and check the seam to see if you have a good continuous VISE LOCK SEAM. If not, then re-crimp the area with the VISE LOCK CRIMPER.

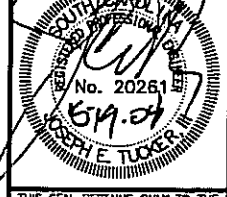
DATE	ISSUE	PERMITS	APPROVALS	CRANE CONFIRMATION	FINAL ERECTION
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PROJECT NAME: OLYMPIC STEEL  
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 CUSTOMER: THOMPSON TURNER CONSTRUCTION CO.  
 SUMTER, SC

JOB NUMBER: SOBA0248A

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# CFR ROOF SYSTEM ERECTION AND APPLICATION REQUIREMENTS

## I. GENERAL ERECTION NOTES

- 1.1 UNLOADING AND STORING.
- 1.1.1 CHECK THE QUANTITIES AND CONDITION OF CFR BUNDLES AND TRIM CRATES ON ARRIVAL. NOTE ON THE DELIVERY TICKETS ANY SHORTAGES, DAMAGE OR DISCREPANCIES. MBS BUILDING SYSTEMS SHALL NOT BE LIABLE FOR DAMAGE OR SHORTAGES WHICH ARE NOT NOTED ON THE DELIVERY TICKETS.
- 1.1.2 EXTREME CARE SHOULD BE EXERCISED WHEN UNLOADING AND HANDLING THE PANEL BUNDLES AND ACCESSORY CRATES TO PREVENT DAMAGE. THE WEIGHT OF THE PANEL BUNDLE IS PRINTED ON THE BUNDLE TAG ON THE END OF EACH BUNDLE. IF THE TAG IS NOT ON THE BUNDLE, YOU MAY CALCULATE THE WEIGHT OF THE BUNDLE WITH THE FORMULA:  
 (CITY OF PANELS X BUNDLE LENGTH X 2.5 lbs.) PER FOOT
- 1.1.3 BUNDLES UP TO 25 FEET LONG CAN BE LIFTED WITH A FORKLIFT. BUNDLES OVER 25 FEET IN LENGTH SHALL BE LIFTED WITH A CRANE UTILIZING A SPREADER BAR WITH 4 INCH MINIMUM WIDTH NYLON STRAPS. STRAPS SHOULD BE 15 TO 20 FEET APART. TO AVOID DAMAGE TO THE PANELS, STEEL CABLES, CHAINS, OR CHOKERS SHALL NOT BE USED.
- 1.1.4 THE CFR PANELS AND ACCESSORIES SHALL BE STORED ON HIGH GROUND, SLOPED TO DRAIN, AND TARPED TO PROTECT FROM MOISTURE FORMATION. THE TARP SHOULD BE OPEN AT EACH END TO ALLOW CONSISTENT AIR FLOW THROUGH THE BUNDLES. THE RECOMMENDED PROCEDURES ARE OUTLINED IN THE CFR ERECTION MANUAL. MBS WILL NOT BE HELD RESPONSIBLE FOR DAMAGE OR DISCOLORATION OF PANELS CAUSED BY IMPROPER STORAGE.
- 1.2 ERECTION SEQUENCE.
- 1.2.1 THE CFR ROOF SYSTEM IS DESIGNED TO BE ERECTED FROM EITHER END OF THE BUILDING. IN RARE CASES, DUE TO THE BUILDING LAYOUT, IT MAY BE REQUIRED TO START ERECTION FROM A SPECIFIC END. IN THOSE CASES, THIS WILL BE NOTED AS SUCH ON THE ROOF SHEETING PLAN.
- 1.2.2 FULL WIDTH PANELS ARE PROVIDED FOR START PANELS TO BE FIELD CUT TO THE PROPER WIDTH. THIS MAY CAUSE THE RIBS TO BE OUT OF ALIGNMENT ACROSS THE RIDGE. THIS IS NORMAL PRACTICE FOR THE CFR ROOF SYSTEM AND DOES NOT AFFECT THE PERFORMANCE OF THE ROOF SYSTEM. PLEASE CHECK THE ROOF SHEETING PLAN AND DETAILS FOR DIMENSIONS OF START PANELS PRIOR TO ERECTING THE ROOF.
- 1.2.3 FOR BUILDINGS WITH ROOF TRANSLUCENT PANELS: IN ORDER TO ALIGN THE TRANSLUCENT PANELS ACROSS THE RIDGE, IT IS SUGGESTED TO ERECT THE ROOF PANELS ON BOTH SIDES OF THE RIDGE FROM THE SAME END OF THE BUILDING - UTILIZING THE SAME WIDTH START PANEL. PANEL RUNS WITH TRANSLUCENT PANELS HAVE BEEN PLACED AS SPECIFIED IN THE ORDER DOCUMENTS.
- 1.3 COORDINATION WITH OTHER TRADES.
- 1.3.1 SUPPORTS FOR THE CFR ROOF SYSTEM SHALL BE PROVIDED AND ARE REQUIRED AS SHOWN IN THE SECTIONS AND AS NOTED IN THESE SPECIFICATIONS. ALL NECESSARY CLEARANCE DIMENSIONS FOR PROPER ELEVATIONS RELATIVE TO THE ROOF PANELS HAVE BEEN SHOWN. THE ERECTOR SHALL BE RESPONSIBLE FOR COORDINATING THESE DIMENSIONAL REQUIREMENTS WITH OTHER TRADES ASSOCIATED WITH THE BUILDING ROOF SYSTEM.
- 1.4 ERECTION CARE.
- 1.4.1 THE ERECTOR MUST BE SKILLED IN THE ERECTION OF METAL BUILDING SYSTEMS AND IS RESPONSIBLE FOR COMPLYING WITH ALL APPLICABLE LOCAL, FEDERAL, AND STATE CONSTRUCTION AND SAFETY REGULATIONS INCLUDING OSHA REGULATIONS AS WELL AS ANY APPLICABLE REQUIREMENTS OF LOCAL, NATIONAL, OR INTERNATIONAL UNION RULES OR PRACTICES. THE ERECTOR REMAINS SOLELY RESPONSIBLE FOR THE SAFETY AND APPROPRIATENESS OF ALL TECHNIQUES AND METHODS UTILIZED BY ITS CREWS IN THE ERECTION OF THE METAL BUILDING SYSTEM AND/OR THE CFR ROOF SYSTEM. THE ERECTOR IS ALSO RESPONSIBLE FOR SUPPLYING ANY SAFETY DEVICES SUCH AS SCAFFOLDS, RUNWAYS, NETS, ETC. WHICH MAY BE REQUIRED TO SAFELY ERECT THE METAL BUILDING SYSTEM AND/OR CFR ROOF SYSTEM.
- 1.4.2 THE ERECTOR OF THE CFR ROOF SYSTEM SHALL EXERCISE GREAT CARE AND ATTENTION TO THE DETAILS AS SHOWN ON THESE DRAWINGS AND IN THE CFR ERECTION MANUAL TO INSURE A SECURE AND PROPER FIT OF ALL COMPONENTS. MBS SHALL NOT BE RESPONSIBLE FOR SUPERVISING AND/OR COORDINATING THE ERECTION OF THE CFR ROOF SYSTEM WITH OTHER TRADES.
- 1.4.3 DUE CONSIDERATION MUST BE GIVEN BY THE ERECTOR TO THE EFFECTS OF THERMAL EXPANSION AND CONTRACTION WHEN ERECTING A ROOF TIE-IN TO AN EXISTING STRUCTURE TO INSURE A SAFE, SECURE, WEATHERTIGHT CONDITION. FLASHING FOR TIE-INS TO EXISTING BUILDINGS IS TYPICALLY NOT INCLUDED AS PART OF THE MATERIAL PROVIDED BY MBS BUILDING SYSTEMS. REFER TO THE SECTIONS AND DETAILS FOR SPECIFIC MATERIALS PROVIDED BY MBS.
- 1.5 FIELD CUTTING OF PANELS.
- 1.5.1 WHEN FIELD CUTTING OR MITERING CFR ROOF PANELS, NON-ABRASIVE CUTTING TOOLS SUCH AS NIBBLERS, OR TIN-SNIPS SHALL BE USED. ABRASIVE CUTTING TOOLS SUCH AS MECHANICAL GRINDERS, SAWS, SHEARS, OR SCISSORS CAN DAMAGE THE GALVALUME FINISH AND CREATE EXCESS METAL SHAVINGS THAT CAN CORRODE THE PANELS. THE USE OF NON-APPROVED CUTTING DEVICES MAY VOID YOUR FACTORY WARRANTY.

## II. DESIGN AND PERFORMANCE CRITERIA (CONTINUED)

- 2.3 PANEL CLIP FASTENING REQUIREMENTS.
- 2.3.1 MBS STANDARD CLIP FASTENERS ARE DESIGNED TO FASTEN TO A STEEL STRUCTURAL MEMBER OF .080" MINIMUM THICKNESS (18 GA.). TWO FASTENERS ARE REQUIRED TO ENGAGE THE STRUCTURAL MEMBER AT EVERY PANEL CLIP LOCATION. REQUIRED FASTENER PULLOUT VALUES ARE DEPENDENT UPON PROJECT LOCATION, SIZE, BUILDING CODE, AND LOADING. CONSULT MBS ENGINEERING FOR PROJECT-DEPENDENT FASTENER SPECIFICATIONS.
- 2.4 ROOF TOP UNITS AND CURB SUPPORTS.
- 2.4.1 THE CFR ROOF SYSTEM IS ELEVATED ABOVE THE TOP OF THE ROOF SECONDARY STRUCTURAL MEMBERS. ROOF CURB SUB-FRAMING MUST BE ELEVATED ABOVE THE SECONDARY MEMBERS TO THE ELEVATION OF THE ROOF PANEL TO AVOID POTENTIAL LEAK PROBLEMS. REFER TO THE DETAILS FOR PROPER DIMENSIONS. SHORT ROOF CLIPS REQUIRE 1/2" OF ELEVATION, WHILE TALL ROOF CLIPS REQUIRE 1 1/2" OF ELEVATION.
- 2.4.2 THE CFR ROOF SYSTEM IS DESIGNED AS A FLOATING SYSTEM. CURB FRAMING AND FLASHING MUST BE DESIGNED ACCORDINGLY TO ALLOW THE CURB SYSTEM TO FLOAT WITH THE CFR ROOF DURING THERMAL EXPANSION AND CONTRACTION. ROOF CURBS SHALL NOT SPAN THE RIDGE OF A BUILDING.
- 2.5 INSULATION REQUIREMENTS.
- 2.5.1 MBS RECOMMENDS THAT INSULATION BE USED IN ALL CFR ROOF APPLICATIONS TO AVOID PROBLEMS WITH CONDENSATION FORMING ON THE UNDERSIDE OF THE SHEETING. THIS ALSO PROVIDES A BUFFER BETWEEN THE PURLINS AND THE CFR ROOF TO ELIMINATE NOISE AND POSSIBLE DAMAGE DUE TO METAL-TO-METAL CONTACT. MBS CAN SUPPLY A NOISE REDUCING FOAM TAPE FOR USE IN LIMITED APPLICATIONS (CANOPIES, ETC.) WHEN INCLUDED AS PART OF THE ROOF ORDER. REFER TO THE DETAILS FOR FOAM TAPE REQUIREMENTS.
- 2.6 PAINTED CFR ROOF.
- 2.6.1 PAINTED STANDING SEAM ROOF PANELS ARE OFTEN PROVIDED BY MBS. IN THIS CASE, THE GINCH STRIPS, COMPRESSION HOODS, GUTTER BRACKETS, END DAMS, AND OTHER ACCESSORIES WILL BE PROVIDED IN THEIR NORMAL UNPAINTED FINISH. FIELD PAINTING MAY BE REQUIRED; IF SO, PAINT IS NOT PROVIDED BY MBS.

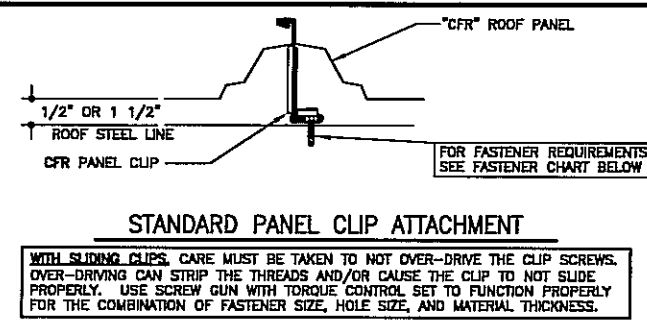
## III. COMPOSITE CFR ROOF SYSTEM

- (APPLICABLE FOR COMPOSITE CFR ROOF SYSTEMS)
- 3.1 PRODUCT DEFINITION.
- 3.1.1 REFER TO THE SECTIONS AND DETAILS IN THESE DRAWINGS FOR SPECIFIC CLIP FASTENING REQUIREMENTS, INSULATION THICKNESS REQUIREMENTS AND LINER DECK TYPE.
- 3.1.2 COMPOSITE CFR ROOF WITHOUT THE USE OF A LINER DECK IS NOT A MBS STANDARD PRODUCT APPLICATION. DUE CONSIDERATION MUST BE GIVEN TO THE EFFECTS OF CONDENSATION BY THE ENGINEER OF RECORD OR ARCHITECT WHEN THIS OCCURS. IN ADDITION, GREAT CARE MUST BE TAKEN BY THE ERECTOR TO INSURE THAT THE ROOF SYSTEM IS ERECTED IN A SAFE, QUALITY MANNER.
- 3.2 VAPOR BARRIER.
- 3.2.1 VAPOR BARRIER MUST BE USED BETWEEN THE LINER DECKING AND THE INSULATION TO PREVENT CONDENSATION. REFER TO THE ERECTION DRAWING DETAILS.
- 3.3 INSULATION.
- 3.3.1 RIGID BOARD INSULATION CAN BE USED IN CONJUNCTION WITH A COMPOSITE CFR ROOF SYSTEM. THE RIGID BOARD INSULATION MUST BE CUT TO ALLOW FREE MOVEMENT OF THE BACK-UP PLATE AT PANEL SPICES, SINGLE SLOPE HIGH EAVES AND RIDGE LOCATIONS.
- 3.3.2 UNFACED FIBERGLASS (BATT) INSULATION CAN BE USED IN CONJUNCTION WITH A COMPOSITE CFR ROOF SYSTEM.
- 3.4 CLIP FASTENING REQUIREMENTS.
- 3.4.1 REFER TO PART II, "DESIGN AND PERFORMANCE CRITERIA" FOR CFR ROOF PANEL CLIP FASTENING REQUIREMENTS.

## II. DESIGN AND PERFORMANCE CRITERIA

- 2.1 ROOF SYSTEM.
- 2.1.1 THE CFR ROOF SYSTEM CONSISTS OF 24 GAGE PANELS WITH A NOMINAL COVERAGE OF 2'-0" AND A PANEL SEAM THAT IS BETWEEN 3 1/2" AND 4 1/2" HIGH DEPENDING ON CLIP TYPE USED. REFER TO THE DETAILS AND SECTIONS FOR SPECIFIC PANEL CLIP TYPE.
- 2.2 PANEL CLIP SPACING.
- 2.2.1 THE CFR ROOF SYSTEM USES A CLIP TO ATTACH THE PANELS TO THE ROOF SECONDARY MEMBERS. PANEL CLIP SPACING REQUIREMENTS ARE AS FOLLOWS:  
 FOR CFR ROOF ON A MBS BUILDING: CLIPS ARE REQUIRED AT EVERY PURLIN AND/OR ROOF JOIST.  
 FOR CFR ROOF ON A NON-MBS BUILDING: MAXIMUM CLIP SPACING IS TO BE 5'-0" FOR PURLIN ROOFS AND 5'-6" FOR JOIST ROOFS.

## CFR PANEL CLIP ATTACHMENT DETAIL



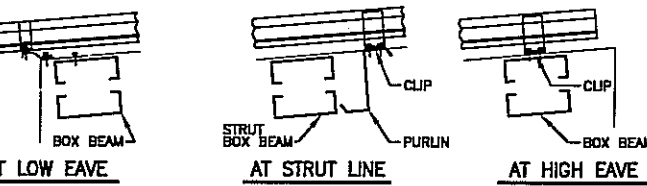
STANDARD CFR CLIP		STD. CLIP FASTENER REQUIREMENTS	
STD. 4" CFR CLIP PART NUMBERS		NON-FM JOBS	
MARK #	PART DESCRIPTION	(2) FASTENERS PER CLIP	
H2500	SHORT FIXED CLIP	H1070 AT JOISTS	
H2510	TALL FIXED CLIP	H1020 AT PURLINS	
		FM 1-60 JOBS	
H2520	SHORT SLIDING CLIP	(2) FASTENERS PER CLIP	
H2530	TALL SLIDING CLIP	H1070 AT JOISTS	
		H1020 AT PURLINS	
		FM 1-60 THRU FM 1-120 JOBS	
		(2) H1070 AT JOISTS	
		(3) H1020 AT PURLINS	

## CFR PERIMETER CLIP

CFR PERIMETER CLIP PART NUMBERS		PERIMETER CLIP FASTENER REQUIREMENTS	
MARK #	PART DESCRIPTION		
H2720	SHORT SLIDING 8" CLIP	PURLINS - (3) H1020	
H2730	TALL SLIDING 8" CLIP	JOISTS - (2) H1070	
H2740	SHORT SLIDING 12" CLIP		
H2750	TALL SLIDING 12" CLIP		
H2760	SHORT SLIDING 16" CLIP		
H2770	TALL SLIDING 16" CLIP		

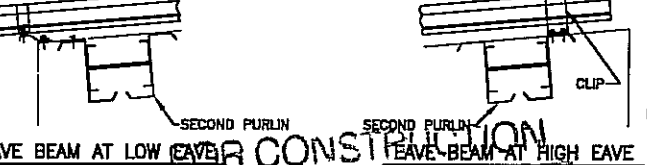
## SPECIAL CONDITION AT A COLD-FORMED BOX BEAM

- IF THIS PROJECT HAS A COLD-FORMED BOX BEAM:
- 1) AT THE LOW EAVE, DO NOT ATTACH ROOF CLIPS TO THE BOX BEAM.
  - 2) AT A STRUT LINE (ADJACENT TO A PURLIN), DO NOT ATTACH ROOF CLIPS TO THE BOX BEAM. (NOTE: THE STRUT LINE COULD BE AT THE HIGH EAVE).
  - 3) AT THE HIGH EAVE THAT IS NOT ADJACENT TO A PURLIN, DO ATTACH ROOF CLIPS TO THE BOX BEAM.



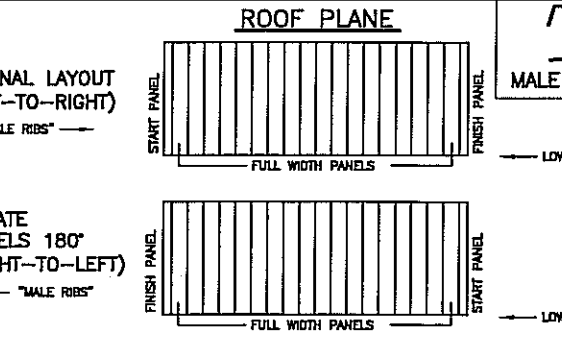
## SPECIAL CONDITION AT A STRONG-BACK EAVE BEAM

- IF THIS PROJECT HAS AN EAVE BEAM WITH (2) PURLINS, AS SHOWN, DO NOT ATTACH ROOF CLIPS TO THE "SECOND" PURLIN.



## ROOF SHEETING ERECTOR NOTES

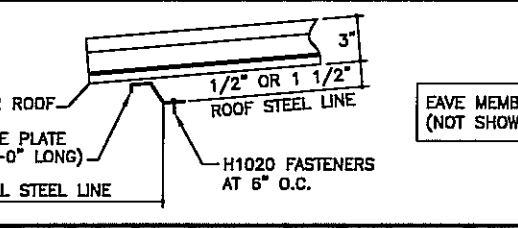
- 1.) THE ROOF SHEETING PLAN IS SHOWN WITH THE ROOF PANELS BEING ERECTED FROM "LEFT-TO-RIGHT". IF THE DESIRE IS TO ERECT THE ROOF PANELS FROM "LEFT-TO-RIGHT", FOLLOW THE ROOF SHEETING PLAN AS SHOWN. IF THE DESIRE IS TO ERECT THE ROOF PANELS FROM "RIGHT-TO-LEFT", FOLLOW THE INSTRUCTIONS SHOWN BELOW.
- 2.) START & FINISH PANEL DIMENSIONS SHOWN BELOW ARE FOR EXAMPLE ONLY.
- 3.) WHEN SETTING BUNDLES OF PANELS ON THE ROOF, THE "MALE RIB" MUST ALWAYS BE AWAY FROM THE END OF THE BUILDING WHERE THE SHEETING WILL BEGIN.



## STANDARD FASTENER SCHEDULE

FASTENER	DESCRIPTION	FASTENER	DESCRIPTION
H1000	17-14 x 1 1/4" WITH WASHER (SELF TAPPING)	H1047	12-14 x 2" TEK 2 WITH WASHER (SELF DRILLING)
H1020	1/4-14 x 1 1/4" TEK 3 WITHOUT WASHER (SELF DRILLING)	H1050	12-14 x 3/4" SHARP POINT WITH WASHER (SELF TAPPING)
H1030	12-14 x 1 1/4" WITH WASHER (SELF DRILLING)	H1060	12-14 x 3/4" SHARP POINT WITHOUT WASHER (SELF TAPPING)
H1035	12-14 x 1 1/2" WITH WASHER (SELF DRILLING)	H1070	12-24 x 1 1/2" WITHOUT WASHER (SELF DRILLING)
H1040	12-14 x 1 1/4" TEK 2 WITHOUT WASHER (SELF DRILLING)	H1080	11/32" x 1 1/4" WITH WASHER (GOOD SCREW) (SELF DRILLING)
H1045	12-14 x 2" TEK 2 WITHOUT WASHER (SELF DRILLING)	H1100	1/8" POP RIVET
		H1110	3/8" # STAINLESS BROWNET FASTENER

## CFR EAVE PLATE DETAIL



EAVE PLATE PART NUMBERS WITH SCULPTURED RAKE TRIM			
AT SHORT CLIPS		AT TALL CLIPS	
PART #	EAVE TRIM DETAIL	PART #	EAVE TRIM DETAIL
EPA03	SIMPLE EAVE OR EAVE GUTTER	EPB03	SIMPLE EAVE OR EAVE GUTTER
EPD01	LOW EAVE EXTENSION	EPD01	LOW EAVE EXTENSION
EPD	SCULPTURED EAVE	EPE	SCULPTURED EAVE

EAVE PLATE PART NUMBERS WITH SIMPLE EAVE & SIMPLE RAKE			
AT SHORT CLIPS		AT TALL CLIPS	
PART #	ROOF SLOPE	PART #	ROOF SLOPE
EPA03	< OR = 4:12	EPB03	< OR = 4:12
EPD01	> 4:12, < OR = 11:12	EPD01	> 4:12, < OR = 11:12
EPD02	12:12	EPE02	12:12

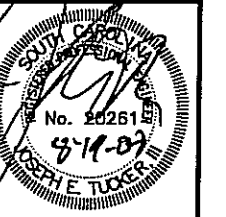
DATE	ISSUE
5/23/08	PERMITS
5/23/08	APPROVALS
5/23/08	CRANE CONFIRMATION
8/20/08	FINAL ERECTION

**MUCOR BUILDING SYSTEMS**  
 PO BOX 1006, 200 WHELSTONE RD.  
 SWANSEA, SC 29160  
 PHONE: (803) 568-2100  
 FAX: (803) 568-2121

PROJECT NAME: OLYMPIC STEEL  
 SUMTER, SC  
 CUSTOMER: THOMPSON TURNER CONSTRUCTION CO.  
 SUMTER, SC

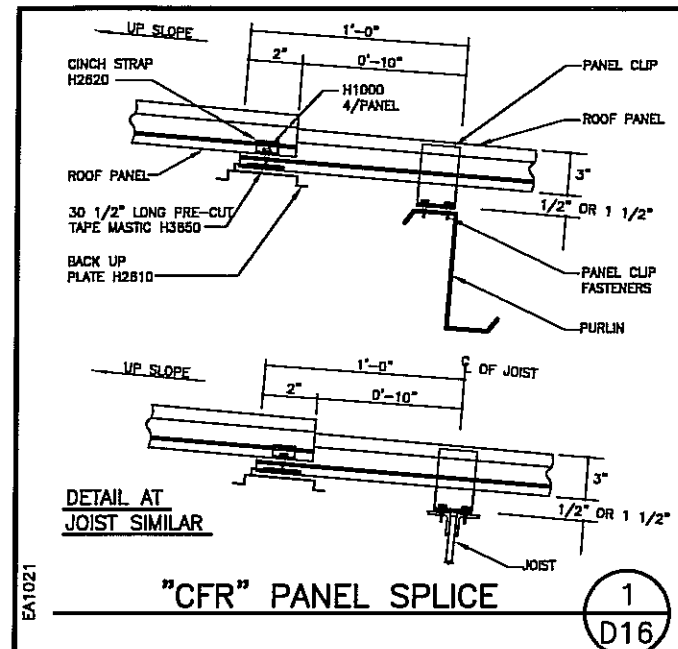
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SHEET NO: D15 of 23

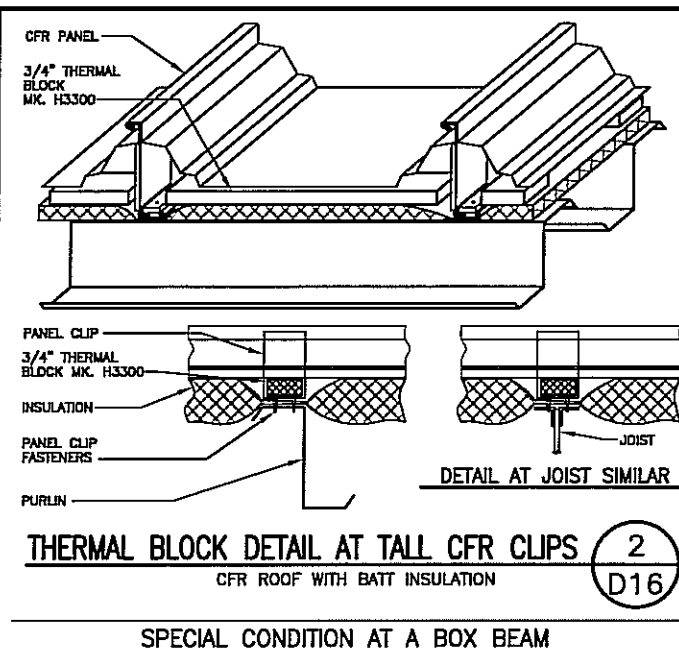


AUG 20 2008  
 YOUR BUILDING IS BEING FABRICATED.  
 NO CHANGES CAN BE MADE.

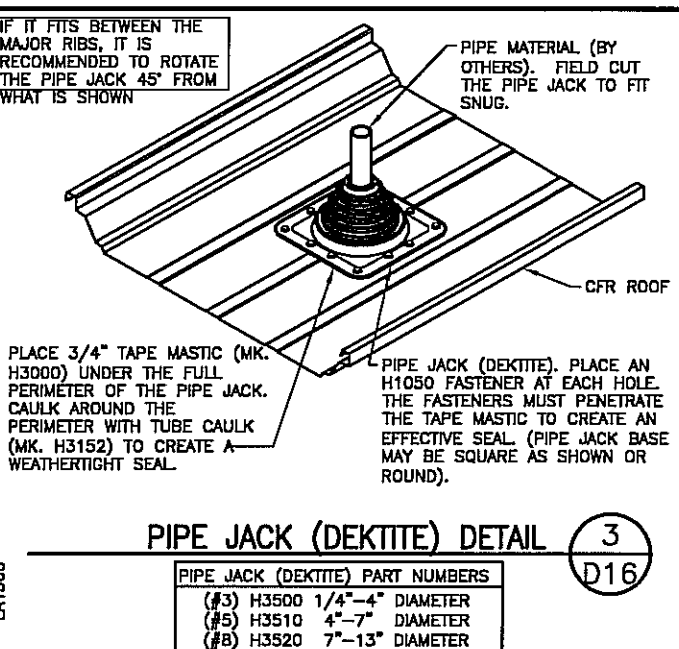
THIS SEAL PERTAINS ONLY TO THE MATERIALS DESIGNED AND SUPPLIED BY MUCOR BUILDING SYSTEMS, A DIVISION OF MUCOR CORPORATION. THE DRAWINGS AND THE METAL BUILDING WHICH THEY REPRESENT ARE THE PRODUCT OF MUCOR BUILDING SYSTEMS. THE REGISTERED PROFESSIONAL ENGINEER WHOSE SEAL APPEARS ON THESE DRAWINGS IS EMPLOYED BY MUCOR BUILDING SYSTEMS AND DOES NOT SERVE AS OR REPRESENT THE PROJECT ENGINEER OF RECORD AND SHALL NOT BE CONSIDERED AS SUCH.



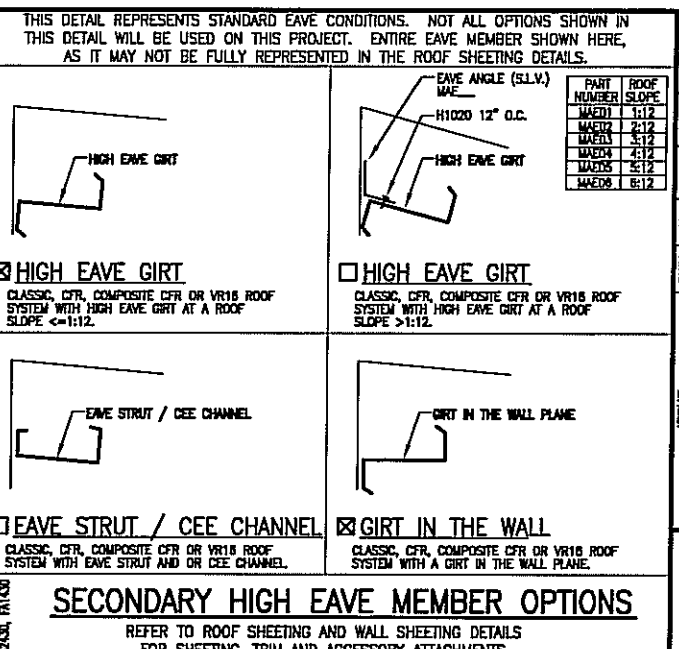
EA1021  
"CFR" PANEL SPLICE **1**  
D16



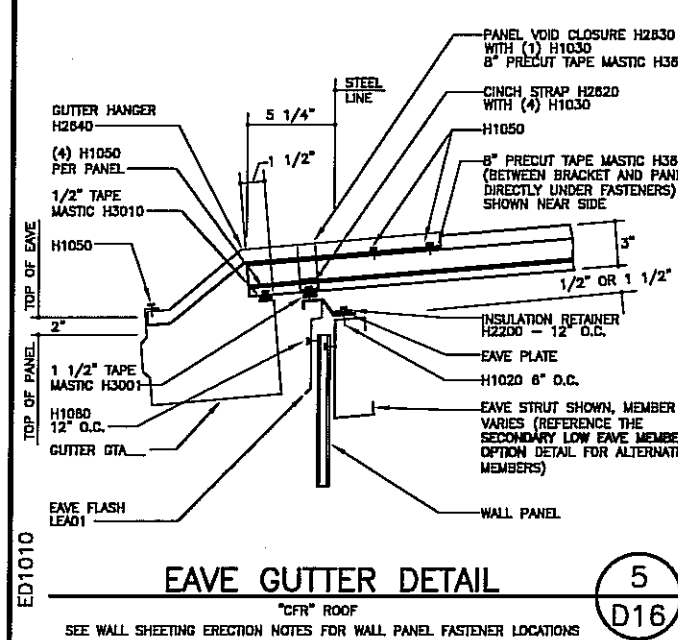
EA1300  
THERMAL BLOCK DETAIL AT TALL CFR CLIPS **2**  
CFR ROOF WITH BATT INSULATION  
D16



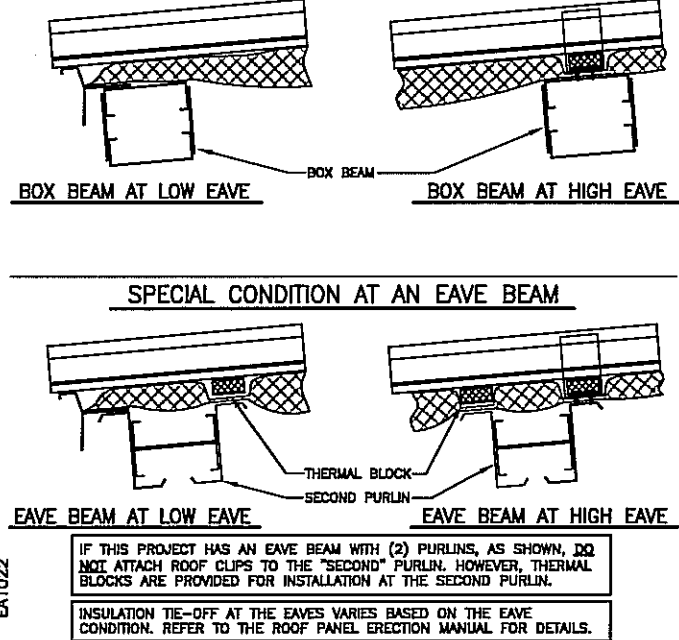
EA1300  
PIPE JACK (DEKTIITE) DETAIL **3**  
D16



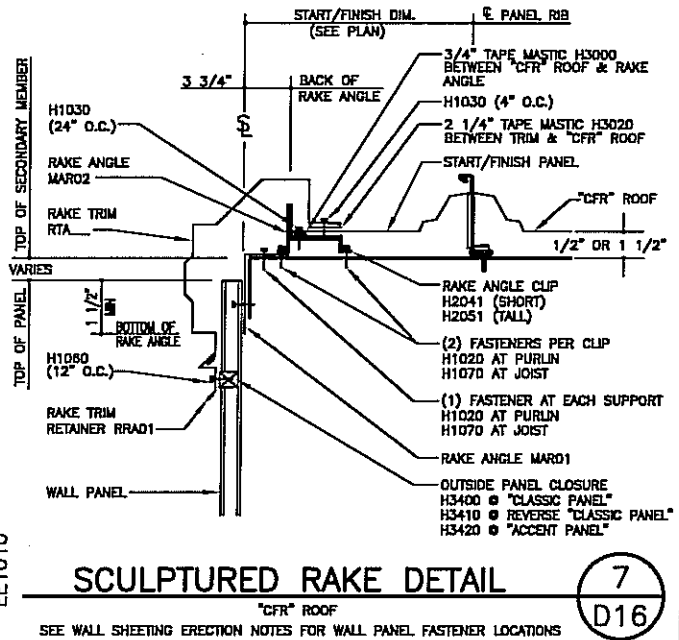
EA1300  
SECONDARY HIGH EAVE MEMBER OPTIONS  
REFER TO ROOF SHEETING AND WALL SHEETING DETAILS FOR SHEETING, TRIM AND ACCESSORY ATTACHMENTS



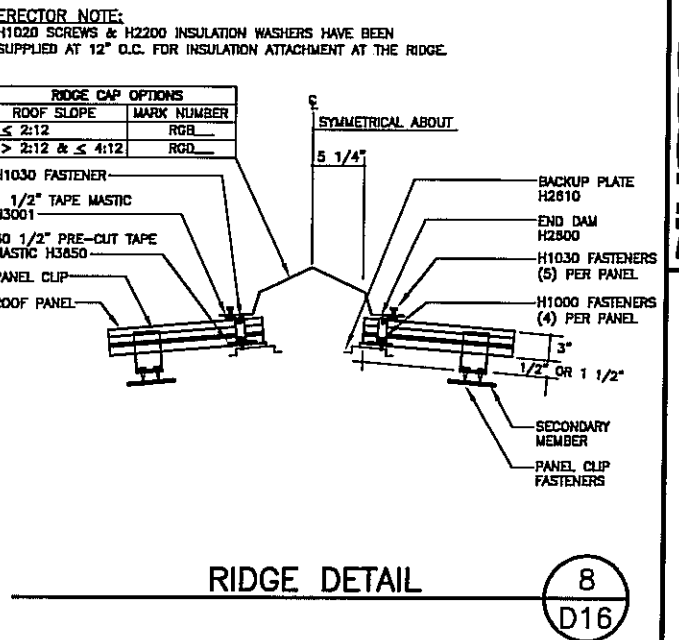
EA1010  
EAVE GUTTER DETAIL **5**  
D16  
SEE WALL SHEETING ERECTION NOTES FOR WALL PANEL FASTENER LOCATIONS



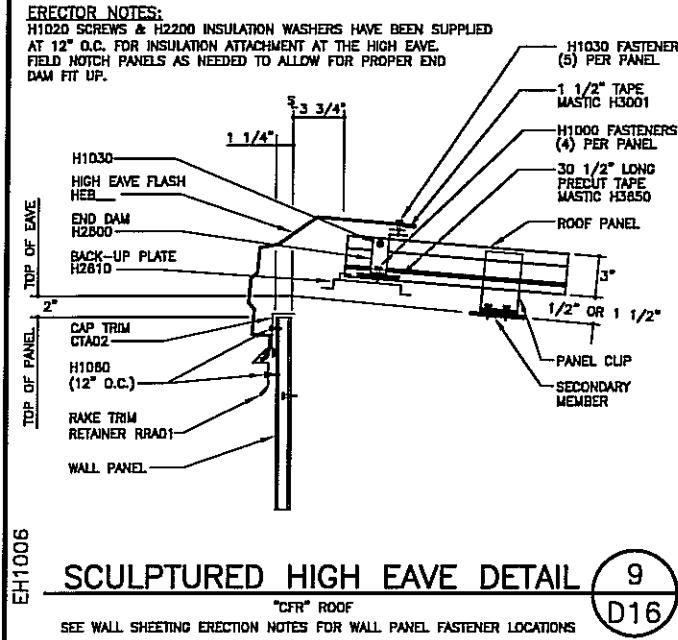
EA1022  
SPECIAL CONDITION AT A BOX BEAM  
EAVE BEAM AT LOW EAVE  
EAVE BEAM AT HIGH EAVE  
THERMAL BLOCK  
SECOND PURLIN



EA1010  
SCULPTURED RAKE DETAIL **7**  
D16  
SEE WALL SHEETING ERECTION NOTES FOR WALL PANEL FASTENER LOCATIONS



EA1050  
RIDGE DETAIL **8**  
D16



EA1006  
SCULPTURED HIGH EAVE DETAIL **9**  
D16  
SEE WALL SHEETING ERECTION NOTES FOR WALL PANEL FASTENER LOCATIONS

**GENERAL NOTES ABOUT THE PLACEMENT OF CFR ROOF TRANSLUCENT PANELS**

- 1) END TO END, TRANSLUCENT PANELS SHOULD BE SPACED SO THAT THE METALS PANELS ABOVE, BETWEEN, AND BELOW ARE RESTING ON A MINIMUM OF (3) PURLIN, PREFERABLY (4). NO SIMPLE-SPAN ROOF PANEL CONDITIONS ARE ALLOWED. NUCOR RECOMMENDS THAT TRANSLUCENT PANELS NOT BE PLACED END TO END.
- 2) SIDE TO SIDE, NUCOR RECOMMENDS THERE BE A MINIMUM OF (4) METAL PANELS BETWEEN TRANSLUCENT PANEL LOCATIONS. TRANSLUCENT PANELS SHALL NOT BE PLACED SIDE BY SIDE.
- 3) TRANSLUCENT PANELS SHALL NOT BE PLACED FROM EAVE TO EAVE.
- 4) TRANSLUCENT PANELS SHALL NOT BE PLACED AT THE LOW EAVE OF THE BUILDING.
- 5) BUILDINGS WITH LESS THAN A 60'-0" PANEL RUN CAN TYPICALLY ONLY HAVE (1) TRANSLUCENT PANEL PER RUN.
- 6) THE LOCATION OF THE FIRST TRANSLUCENT PANEL UP FROM THE LOW EAVE SHOULD BE SET SO THAT THE LOW EAVE METAL PANEL IS SUPPORTED BY (4) PURLINS (OR APPROXIMATELY 15 FEET).

**IF IT FITS BETWEEN THE MAJOR RIBS, IT IS RECOMMENDED TO ROTATE THE PIPE JACK 45° FROM WHAT IS SHOWN.**

**PIPE JACK (DEKTIITE) PART NUMBERS**

- (#3) H3500 1/4"-4" DIAMETER
- (#5) H3510 4"-7" DIAMETER
- (#8) H3520 7"-13" DIAMETER

**ERECTOR NOTE:**  
H1020 SCREWS & H2200 INSULATION WASHERS HAVE BEEN SUPPLIED AT 12" O.C. FOR INSULATION ATTACHMENT AT THE RIDGE.

**FOR CONSTRUCTION THIS IS NOT AN APPROVAL SET.**

**AUG 20 2008**

**YOUR BUILDING IS BEING FABRICATED. NO CHANGES CAN BE MADE.**

**NUCOR BUILDING SYSTEMS**

PROJECT NAME: OLYMPIC STEEL  
SUMTER, SC

JOB NUMBER: S08A0248A  
SHEET NO: D16 of 23

CUSTOMER: THOMPSON TURNER CONSTRUCTION CO.  
SUMTER, SC

DATE: 5/23/08  
CHK: JET  
APP: JET  
CRN: JET  
FIN: JET

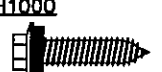

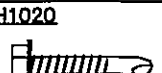

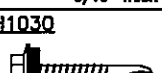
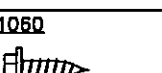
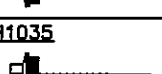

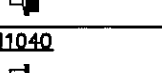
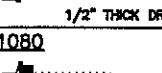
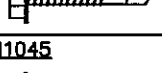
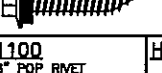
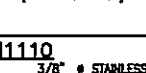
PERMITS: APPROVALS  
CRANE CONFIRMATION  
FINAL ERECTION

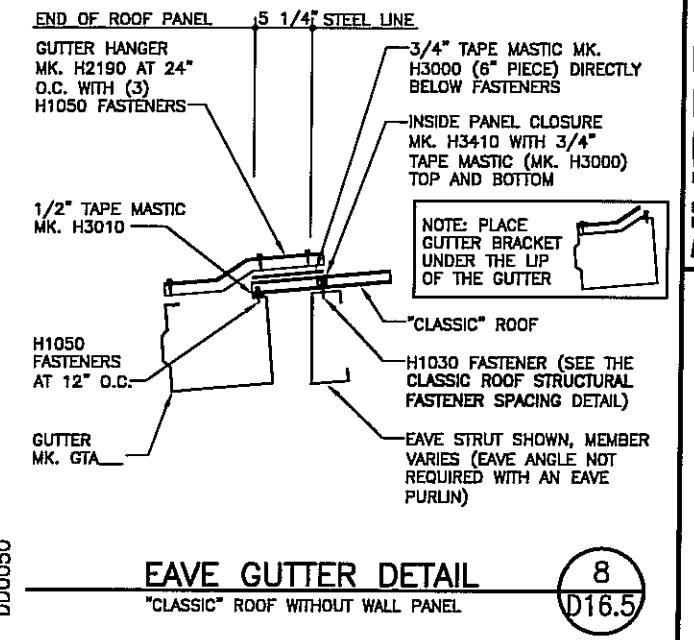
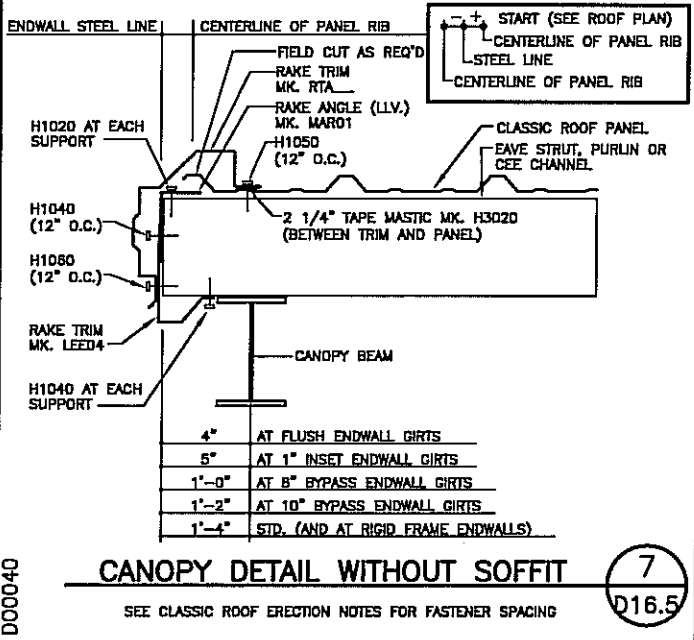
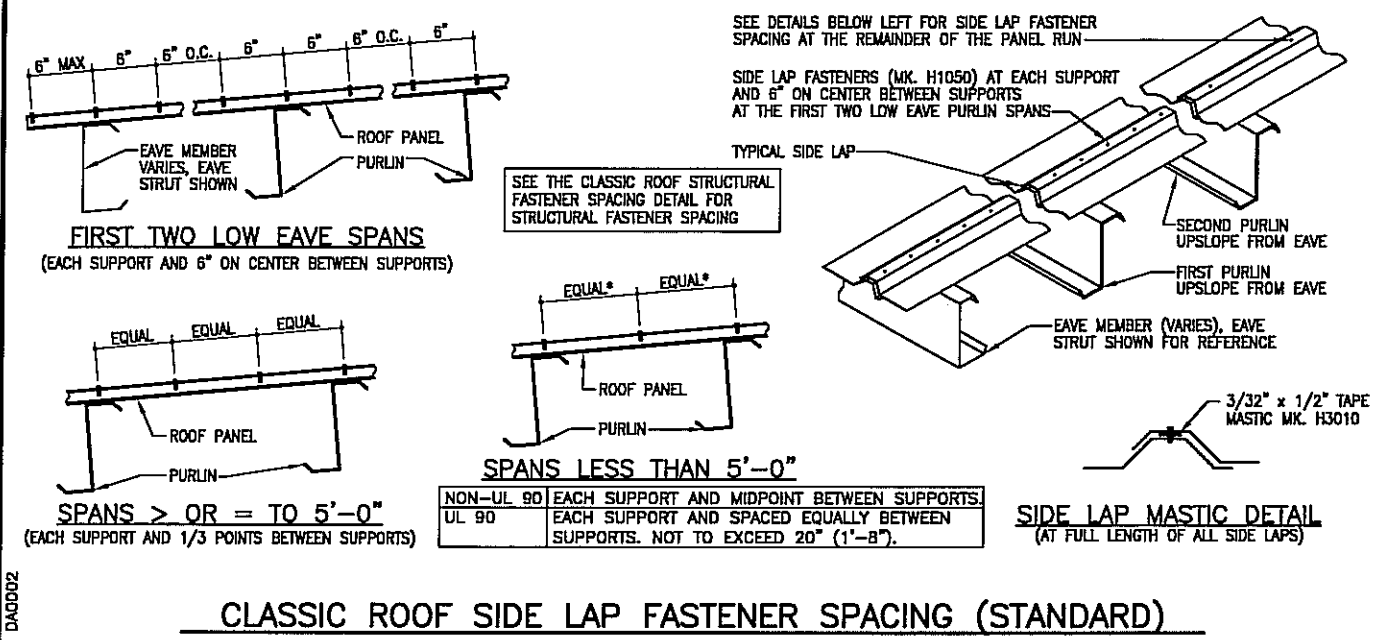
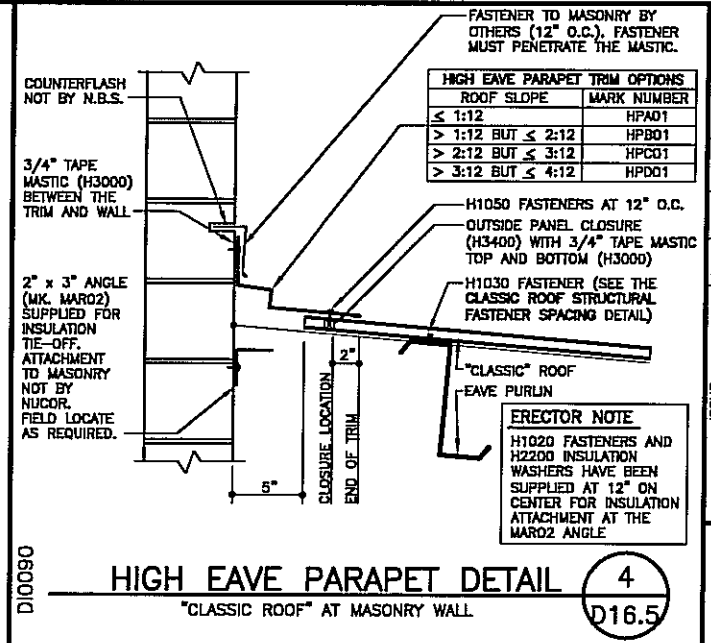
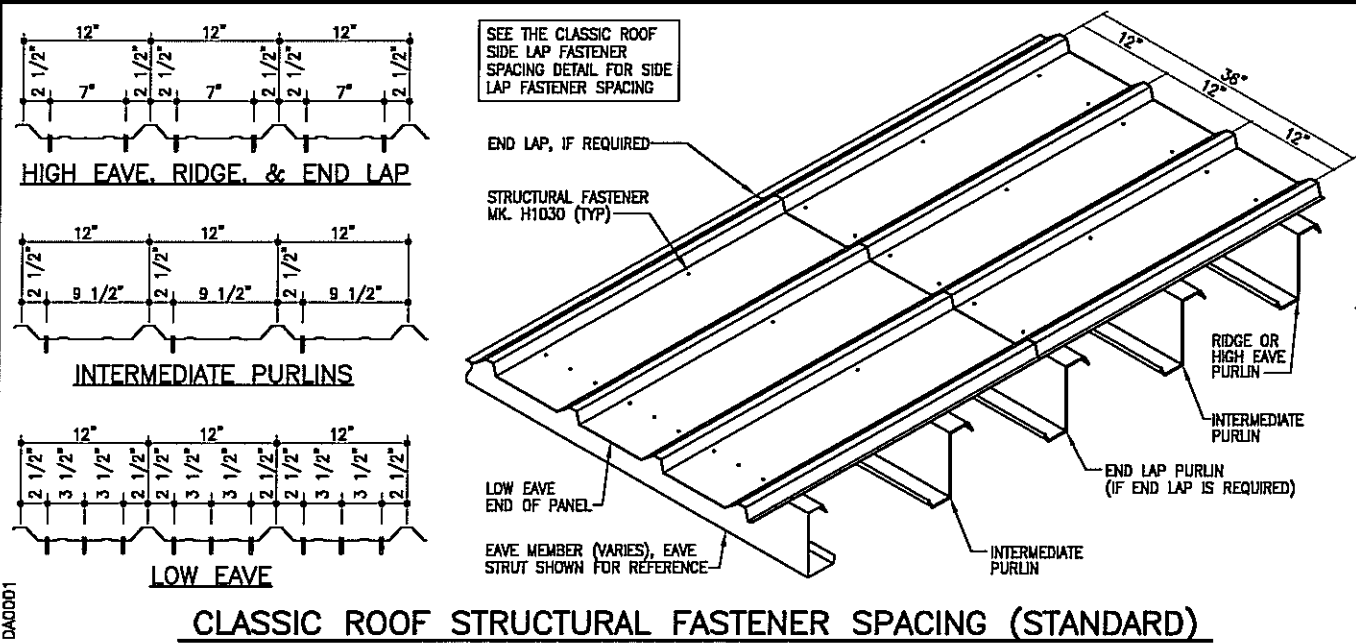
NO. 20261  
8-1-08  
SEAL

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**STANDARD FASTENER SCHEDULE**

<b>H1000</b>  17-14 x 1 1/4" WITH WASHER (SELF TAPPING)	<b>H1047</b>  12-14 x 2" TEK 2 WITH WASHER (SELF DRILLING)
<b>H1020</b>  1/4-14 x 1 1/4" TEK 3 WITHOUT WASHER (SELF DRILLING) 3/16" THICK DRILLING CAPACITY (MAX)	<b>H1050</b>  12-14 x 3/4" SHARP POINT WITH WASHER (SELF TAPPING)
<b>H1030</b>  12-14 x 1 1/4" TEK 2 WITH WASHER (SELF DRILLING)	<b>H1060</b>  12-14 x 3/4" SHARP POINT WITHOUT WASHER (SELF TAPPING)
<b>H1035</b>  12-14 x 1 1/2" TEK 2 WITH WASHER (SELF DRILLING)	<b>H1070</b>  12-24 x 1 1/2" TEK 5 WITHOUT WASHER (SELF DRILLING) 1/2" THICK DRILLING CAPACITY (MAX)
<b>H1040</b>  12-14 x 1 1/4" TEK 2 WITHOUT WASHER (SELF DRILLING)	<b>H1080</b>  11/32" x 1 1/4" WITH WASHER (ROOF SCREW) (SELF DRILLING)
<b>H1045</b>  12-14 x 2" WITHOUT WASHER (SELF DRILLING)	<b>H1100</b>  1/8" POP RIVET
<b>H1110</b>  3/8" # STAINLESS CROWMET FASTENER	



DATE	ISSUE	PERMITS	APPROVALS	CRANE CONFIRMATION	FINAL ERECTION
5/23/08	JET	JET	JET	JET	JET
5/23/08	JET	JET	JET	JET	JET
5/23/08	JET	JET	JET	JET	JET
8/20/08	JET	JET	JET	JET	JET

**NUCOR BUILDING SYSTEMS**

PO BOX 1006, 200 WHELSTONE RD.  
SWANSEA, SC 29160  
PHONE: (803) 568-2100  
FAX: (803) 568-2121

PROJECT NAME: OLYMPIC STEEL

SUMTER, SC

CUSTOMER: THOMPSON TURNER CONSTRUCTION CO. SUMTER, SC

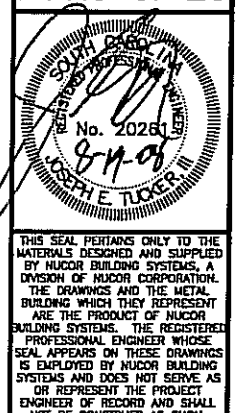
JOB NUMBER: SOBA0248A

SHEET NO: D16.5 of 23

FOR CONSTRUCTION  
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AUG 20 2008

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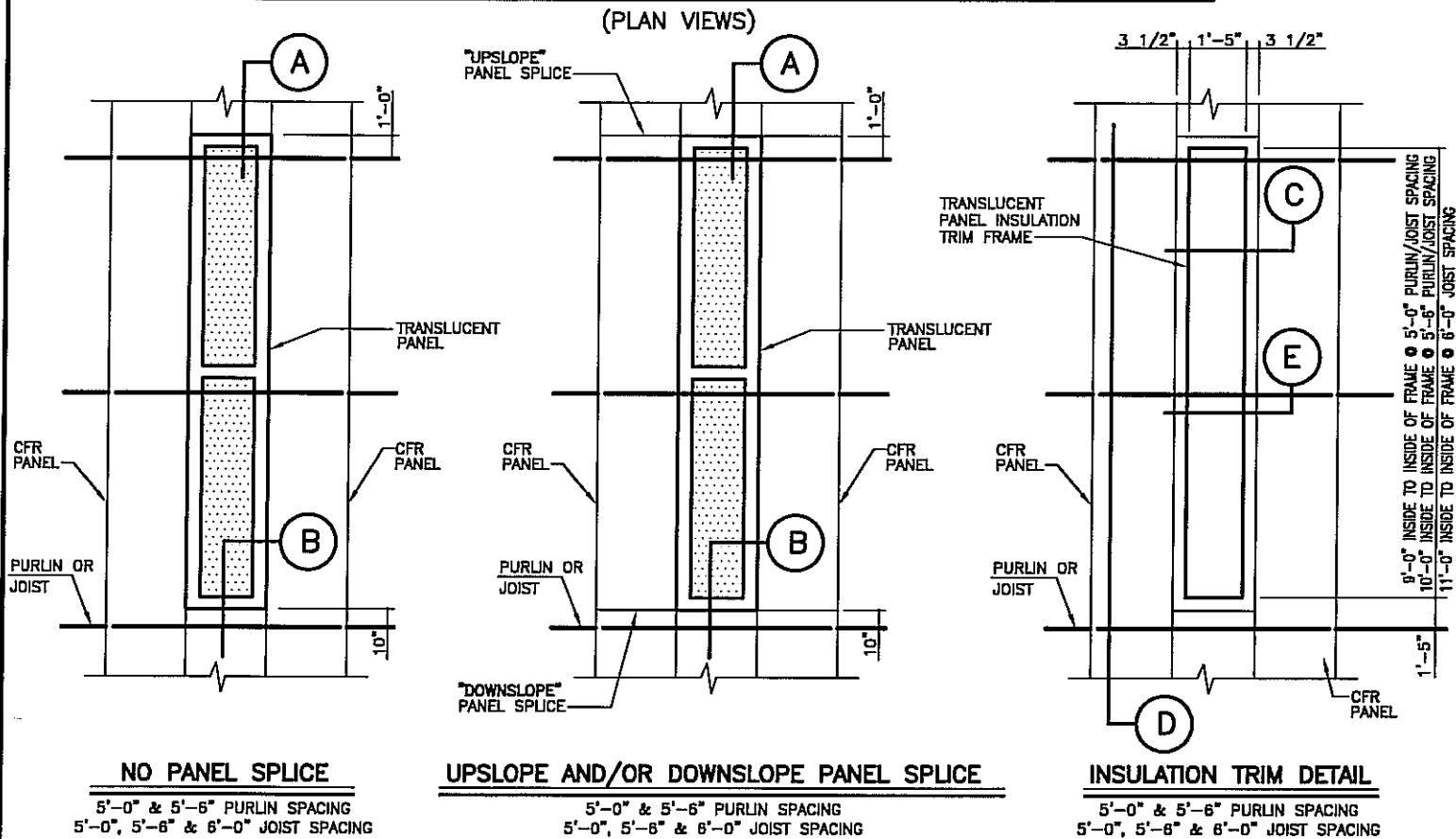


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# C.F.R. TRANSLUCENT ROOF PANEL INSTALLATION INSTRUCTIONS

**ERECTOR NOTE:** THE DETAILS SHOWN ON THIS PAGE REFLECT LEFT-TO-RIGHT PANEL ERECTION SEQUENCE. IF THE PANELS ARE BEING INSTALLED FROM RIGHT-TO-LEFT, THE DETAILS ARE OPPOSITE HAND OF WHAT IS SHOWN.

## STANDARD TRANSLUCENT PANEL LAYOUTS



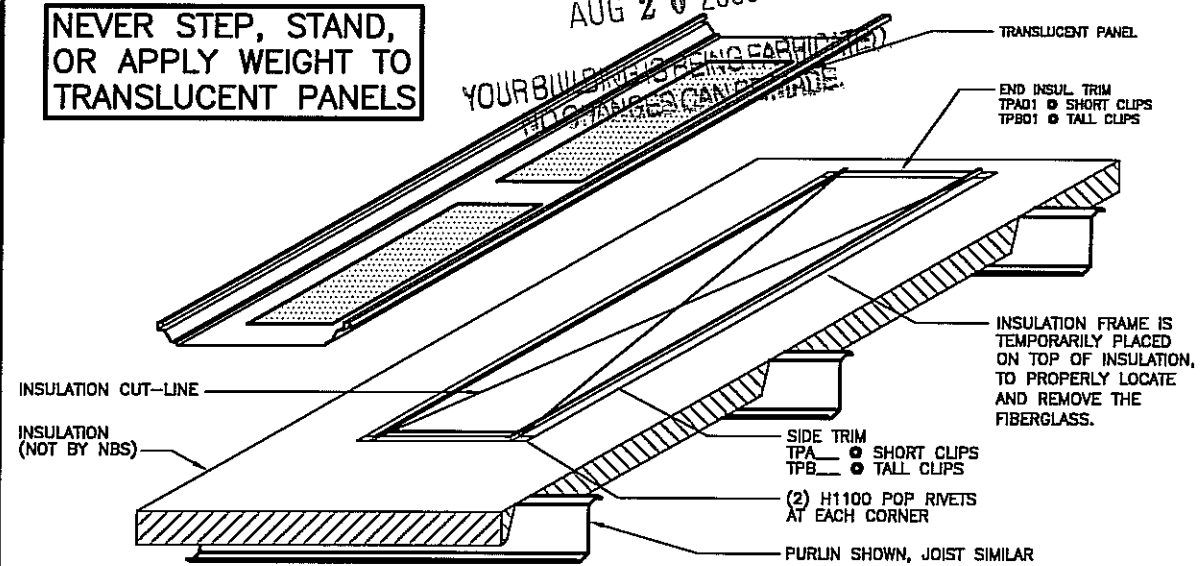
## ERECTION NOTES:

- 1) INSTALL PANELS UP TO THE TRANSLUCENT PANEL LOCATION.
- 2) PRE-ASSEMBLE INSULATION TRIM FRAME AS SHOWN IN THE DETAILS BELOW.
- 3) PLACE FRAME ON TOP OF THE ROOF INSULATION AND ON THE PURLINS/JOISTS, USING THE DIMENSIONS BELOW.
- 4) ATTACH THE FRAME TO PURLINS WITH (4) H1020'S OR TO JOIST WITH (4) H1070'S.
- 5) REMOVE THE FIBERGLASS INSULATION FROM THE BACKING INSIDE THE FRAME AREA.
- 6) MAKE AN X CUT IN THE LINER AS SHOWN.
- 7) FASTEN INSULATION BACKING TO FRAME USING DOUBLE FACED TAPE (BY OTHERS).

**NEVER STEP, STAND, OR APPLY WEIGHT TO TRANSLUCENT PANELS**

**FOR CONSTRUCTION THIS IS NOT AN APPROVAL SET.**

AUG 20 2008

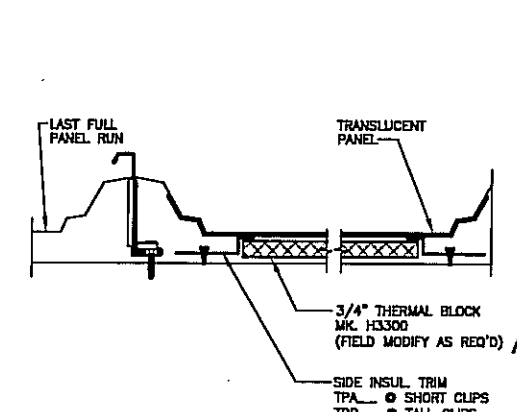
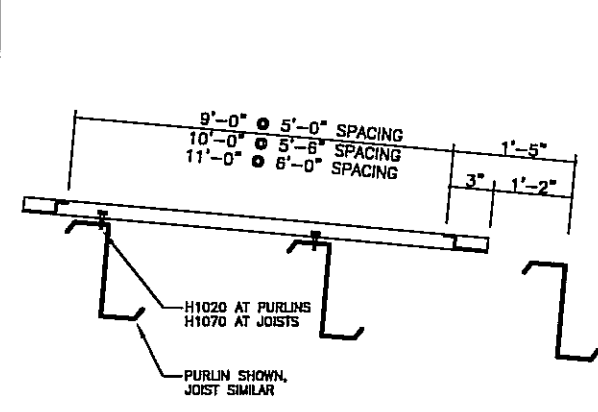
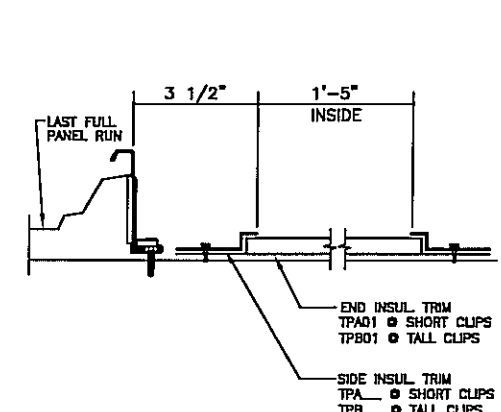
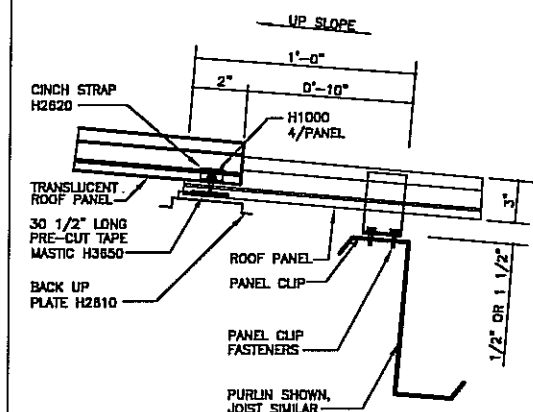
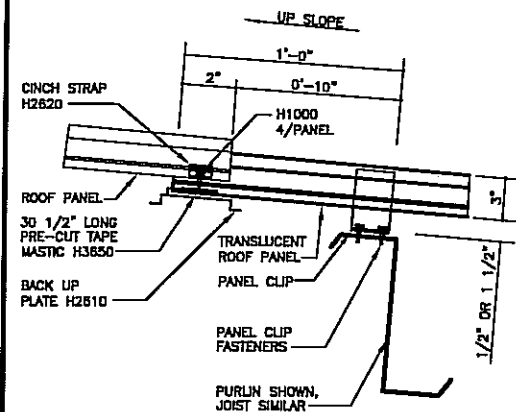


## UL90 REQUIREMENTS

REQUIRED  
 NOT REQUIRED

IF A UL90 RATING IS REQUIRED, THE TRANSLUCENT PANEL MUST BE HAND CRIMPED THE FULL LENGTH OF BOTH SEAMS WITH THE MANUAL CRIMPING TOOL.

NOTE: UL90 RATING IS AVAILABLE WITH 5'-0" MAX. PURLIN/JOIST SPACING ONLY.



**UPSLOPE ENDLAP DETAIL**  
THIS ENDLAP IS THE SAME AS THE STANDARD PANEL ENDLAP, WITH THE EXCEPTION OF THE TRANSLUCENT PANEL.

**DOWNSLOPE ENDLAP DETAIL**  
THIS ENDLAP IS THE SAME AS THE STANDARD PANEL ENDLAP, WITH THE EXCEPTION OF THE TRANSLUCENT PANEL.

**INSULATION FRAME PLACEMENT**  
INSULATION NOT SHOWN FOR CLARITY

**INSULATION FRAME PLACEMENT**  
INSULATION NOT SHOWN FOR CLARITY

**THERMAL BLOCK DETAIL**  
USED AT TALL CLIPS ONLY

DATE	P.E.	ENG.	CHK.	OWN.	ISSUE
5/23/08	JET	JET	JET	JH/MS	PERMITS
5/23/08	JET	JET	JET	JH/MS	APPROVALS
5/23/08	JET	JET	JET	JH/MS	CRANE CONFIRMATION
8/20/08	JET	JET	JET	DB/MS/DJ/AL	FINAL ERECTION

**NUCOR BUILDING SYSTEMS**  
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SWANSEA, SC 29160  
PHONE: (803) 568-2100  
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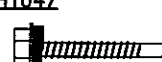
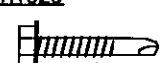
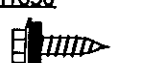

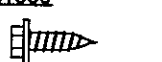





PROJECT NAME: OLYMPIC STEEL  
SUMMITER, SC  
CUSTOMER: THOMPSON TURNER CONSTRUCTION CO.  
SUMMITER, SC

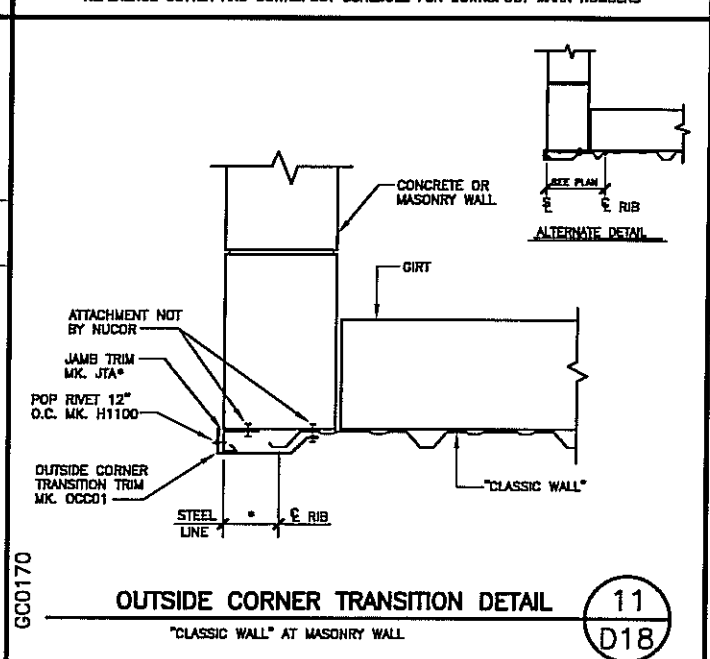
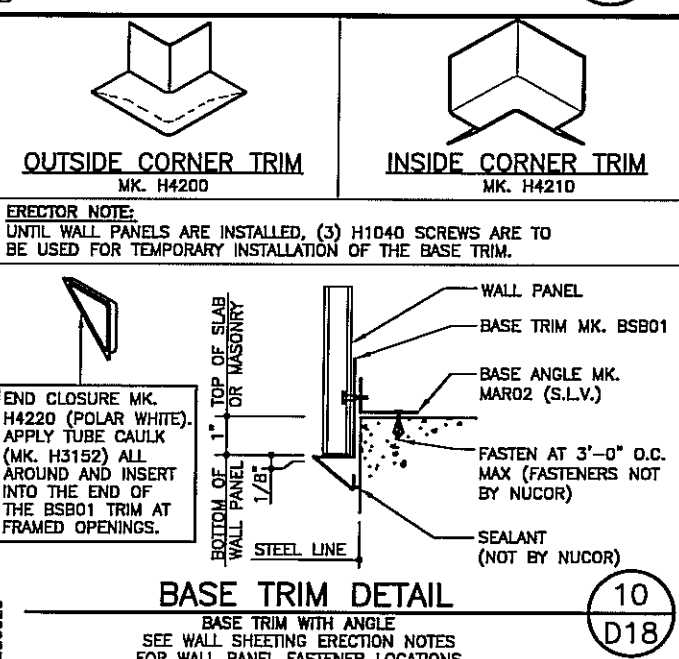
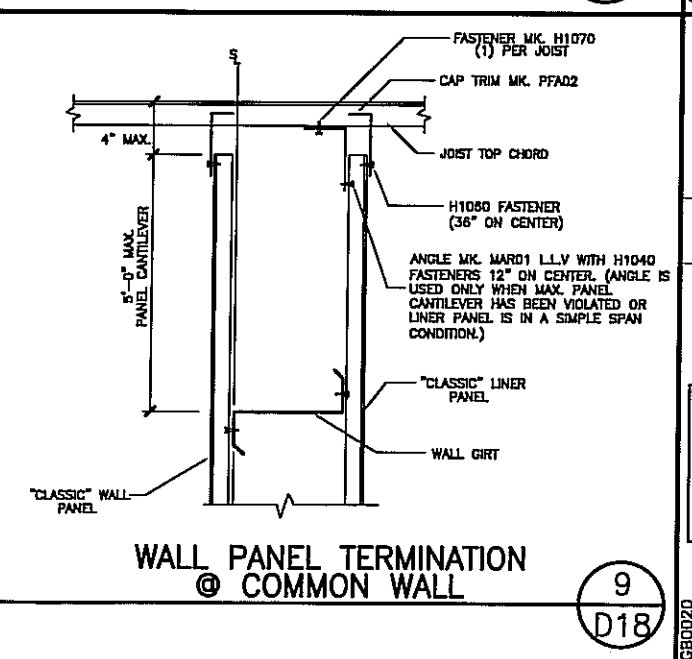
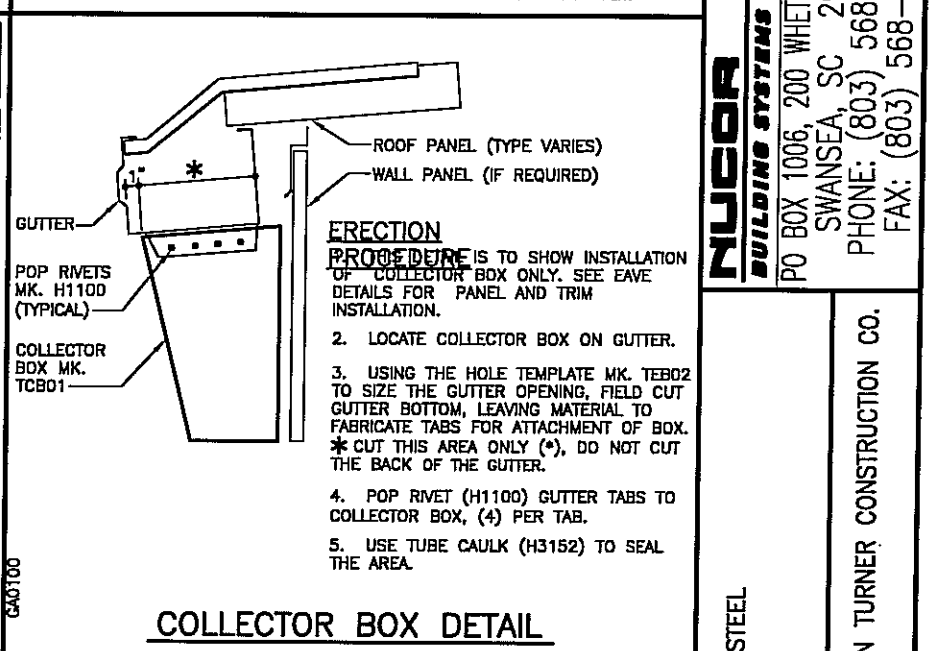
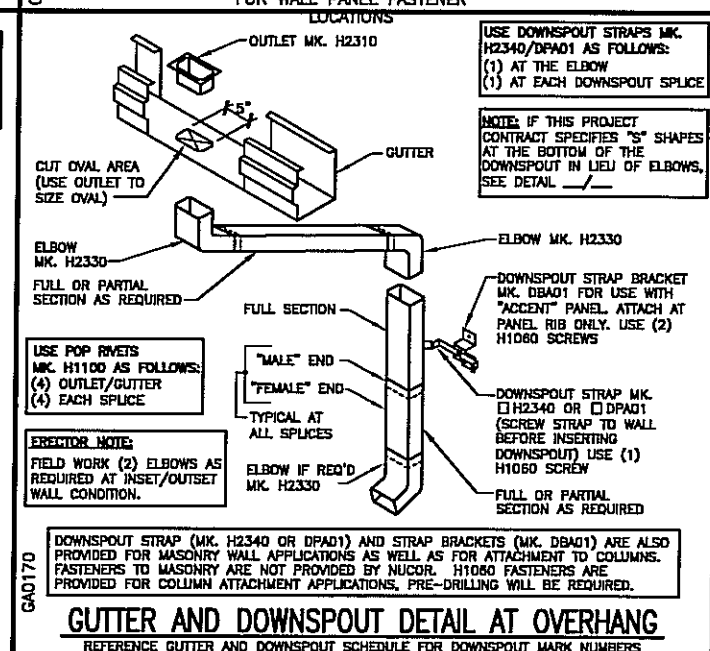
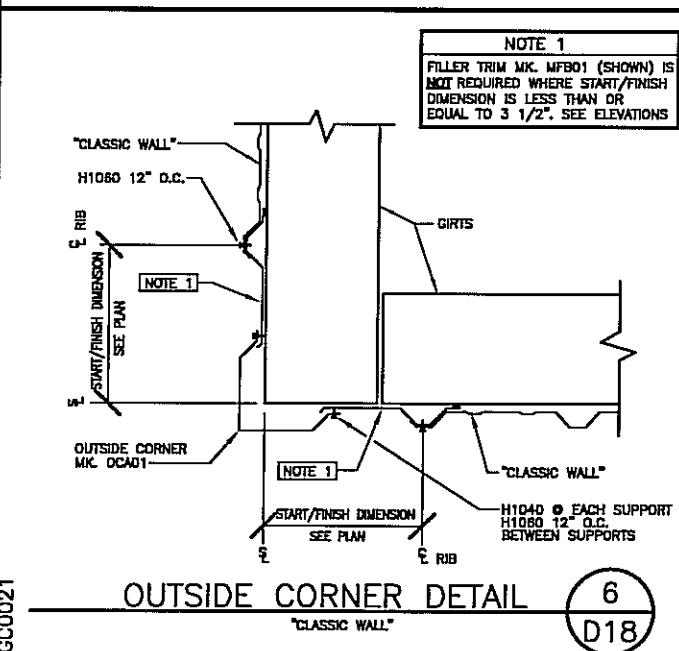
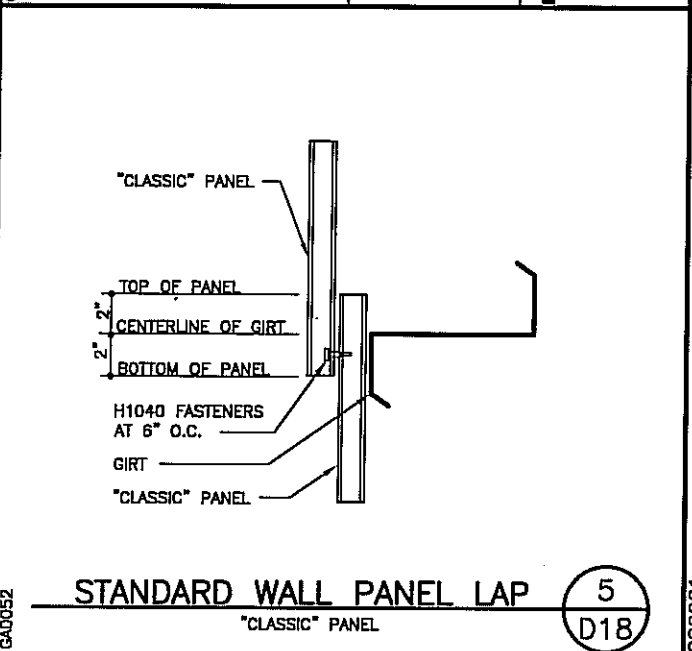
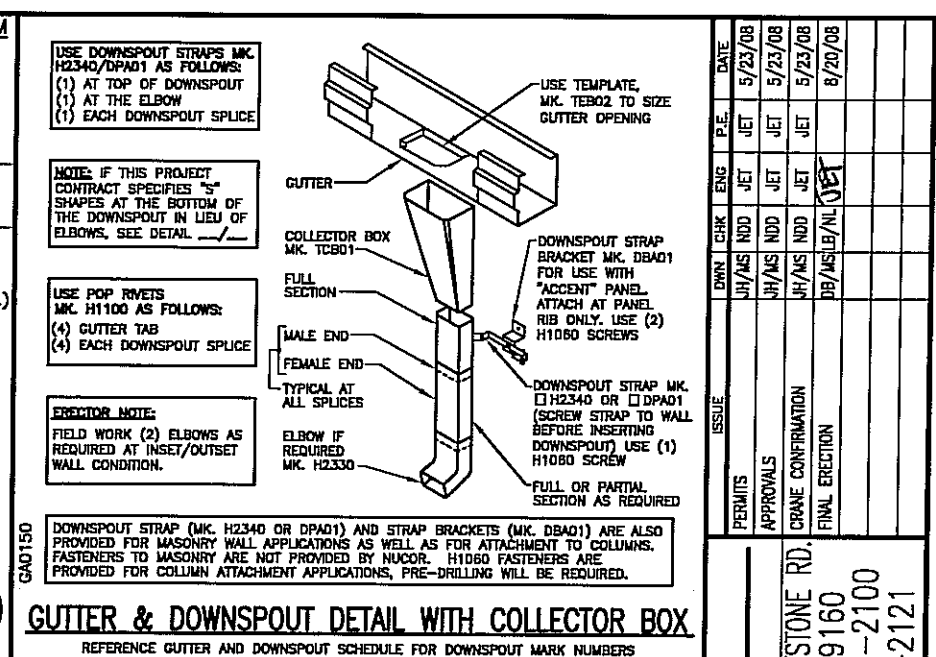
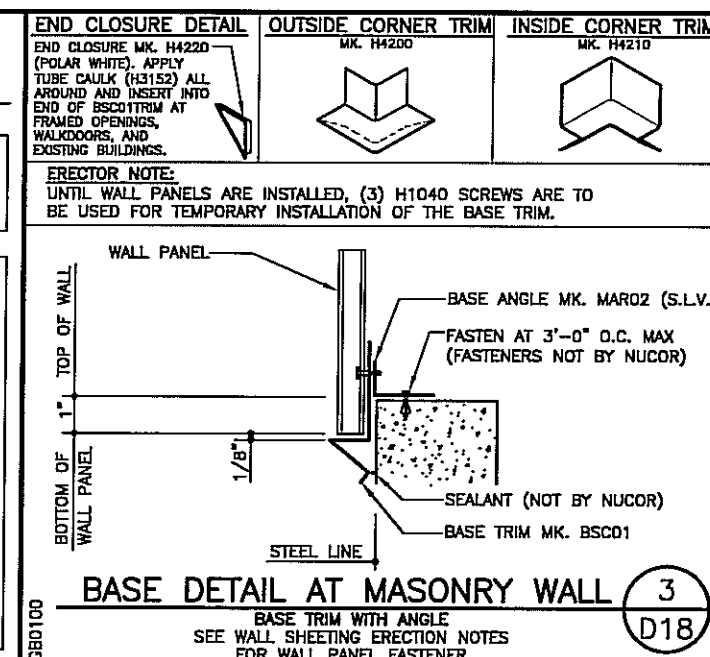
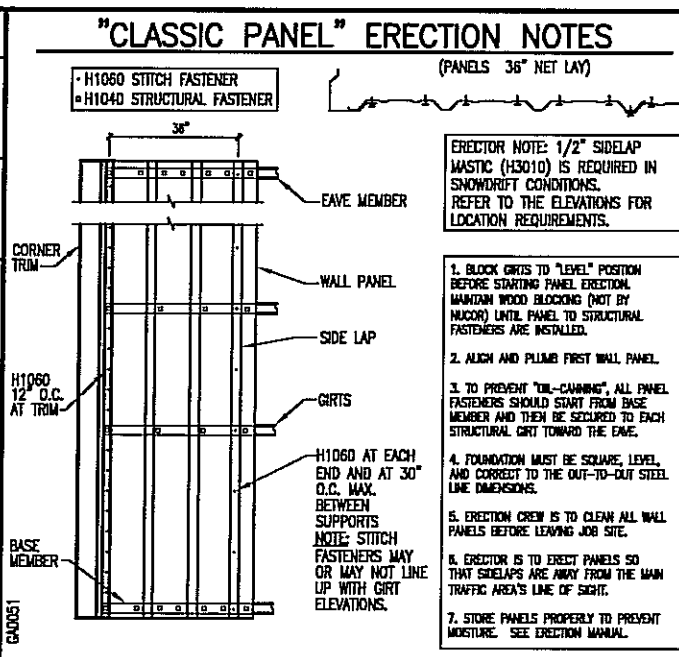
JOB NUMBER: SO8A0248A

SHEET NO: D17 of 23

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EMT010

STANDARD FASTENER SCHEDULE		
<b>H1000</b>  17-14 x 1 1/4" WITH WASHER (SELF TAPPING)	<b>H1047</b>  12-14 x 2" TEK 2 WITH WASHER (SELF DRILLING)	
<b>H1020</b>  1/4-14 x 1 1/4" TEK 3 WITHOUT WASHER (SELF DRILLING) 3/16" THICK DRILLING CAPACITY (MAX)	<b>H1050</b>  12-14 x 3/4" SHARP POINT WITH WASHER (SELF TAPPING)	
<b>H1030</b>  12-14 x 1 1/4" TEK 2 WITH WASHER (SELF DRILLING)	<b>H1060</b>  12-14 x 3/4" SHARP POINT WITHOUT WASHER (SELF TAPPING)	
<b>H1035</b>  12-14 x 1 1/2" WITH WASHER (SELF DRILLING)	<b>H1070</b>  12-24 x 1 1/2" TEK 3 WITHOUT WASHER (SELF DRILLING) 1/2" THICK DRILLING CAPACITY (MAX)	
<b>H1040</b>  12-14 x 1 1/4" TEK 2 WITHOUT WASHER (SELF DRILLING)	<b>H1080</b>  11/32" x 1 1/4" WITH WASHER (GOOF SCREW) (SELF DRILLING)	
<b>H1045</b>  12-14 x 2" TEK 2 WITHOUT WASHER (SELF DRILLING)	<b>H1100</b> 1/8" POP RIVET	<b>H1110</b> 3/8" STAINLESS GROMMET FASTENER



FOR CONSTRUCTION  
THIS IS NOT AN APPROVAL SET.

AUG 20 2008

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NO CHANGES CAN BE MADE.

PROJECT NAME: OLYMPIC STEEL  
SUMNER, SC

JOB NUMBER: SOBA0248A

SHEET NO: D18 of 23

NO. 20261  
4-17-08  
JOSEPH E. TUCKER, III

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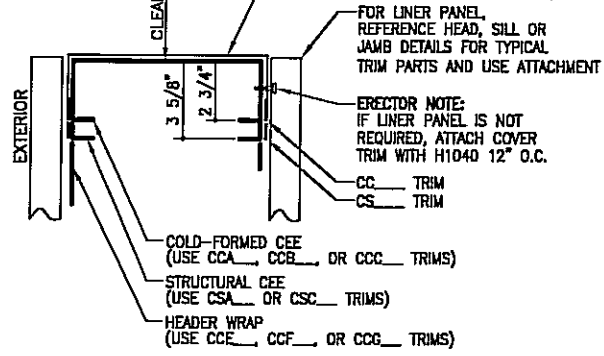
DATE	ISSUE	APPROVALS	CRANE CONFIRMATION	FINAL ERECTION
5/23/08	PERMITS			
5/23/08	APPROVALS			
5/23/08	CRANE CONFIRMATION			
8/20/08	FINAL ERECTION			

NUCOR BUILDING SYSTEMS  
PO BOX 1006, 200 WHEISTONE RD.  
SWANSEA, SC 29160  
PHONE: (803) 568-2100  
FAX: (803) 568-2121

CUSTOMER: THOMPSON TURNER CONSTRUCTION CO.  
SUMNER, SC

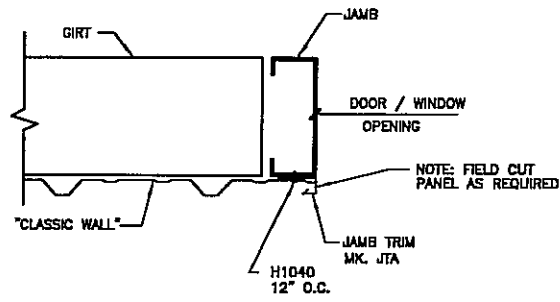


- COVER TRIM
- CCAD (USE AT 8" CEE)
- CCBD (USE AT 10" CEE)
- CCCD (USE AT 12" CEE)
- CSAD (USE AT 8" STRUCTURAL CEE)
- CSBD (USE AT 10" STRUCTURAL CEE)
- CCF (USE AT 8" HEADER WRAP)
- CCF (USE AT 10" HEADER WRAP)
- CCG (USE AT 12" HEADER WRAP)



**FRAMED OPENING COVER TRIM DETAIL**

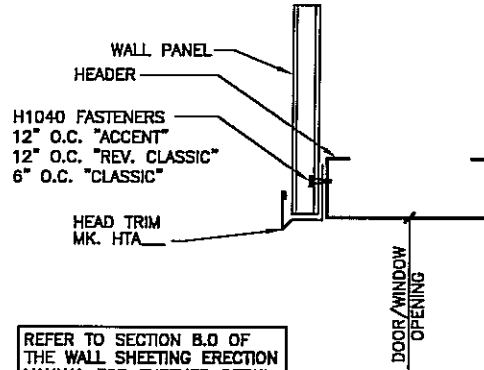
SILL SHOWN, HEAD AND JAMBS SIMILAR



**JAMB DETAIL**

"CLASSIC WALL"

2  
D19

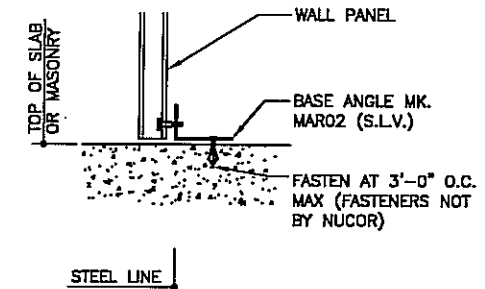


REFER TO SECTION B.0 OF THE WALL SHEETING ERECTION MANUAL FOR FURTHER DETAIL AND PANEL PREPARATION INFORMATION

**HEADER DETAIL**

FOR ALL STANDARD WALL PANEL TYPES

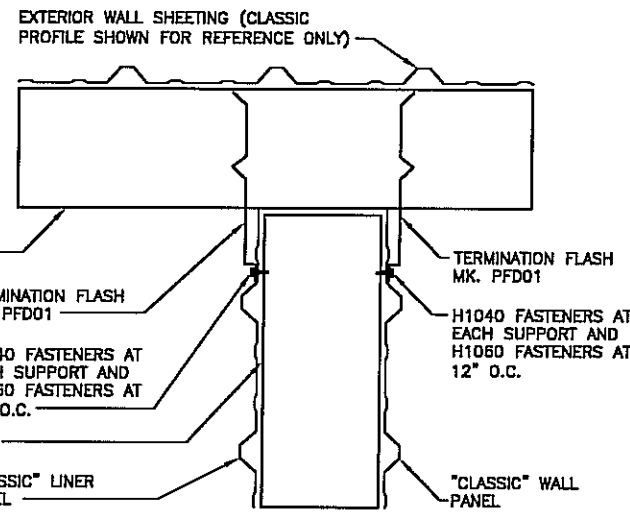
3  
D19



**BASE TRIM DETAIL**

BASE ANGLE  
SEE WALL SHEETING ERECTION NOTES FOR WALL PANEL FASTENER LOCATIONS

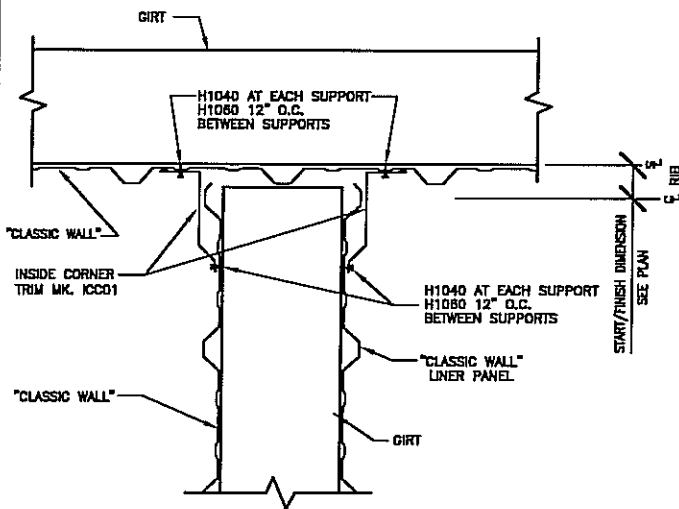
4  
D19



**CORNER TERM. AT COMMON WALL**

"CLASSIC" WALL AT PARTITION TERMINATION

5  
D19



**INSIDE CORNER DETAIL**

"CLASSIC WALL"

6  
D19

ISSUE	DATE	P.E.	ENG.	CHK.	OWN.
PERMITS	5/23/08	JET	JET	JET	JET
APPROVALS	5/23/08	JET	JET	JET	JET
CRANE CONFIRMATION	5/23/08	JET	JET	JET	JET
FINAL ERECTION	8/20/08	JET	JET	JET	JET

**NUCOR BUILDING SYSTEMS**

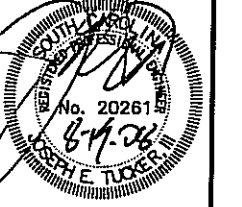
PO BOX 1006, 200 WHELISTONE RD.  
SWANSEA, SC 29160  
PHONE: (803) 568-2100  
FAX: (803) 568-2121

PROJECT NAME: OLYMPIC STEEL  
SUMTER, SC

CUSTOMER: THOMPSON TURNER CONSTRUCTION CO.  
SUMTER, SC

JOB NUMBER: SOBA0248A

SHEET NO: D19 of 23



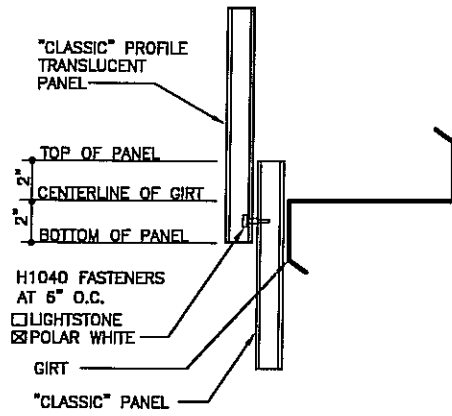
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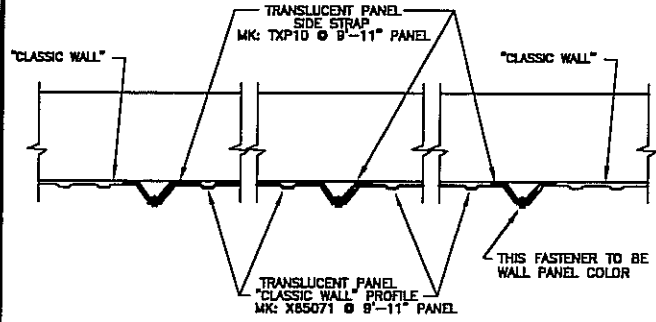
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FASTENER REQUIREMENTS	
FASTEN TO GIRTS @ MID-SPAN W/ H1040 12" O.C.	FASTEN SIDELAPS W/ H1060 30" O.C. MAX.
FASTEN ENDLAPS W/H1040 6" O.C.	FASTEN @ EAVE & RAKE W/ H1040 12" O.C.



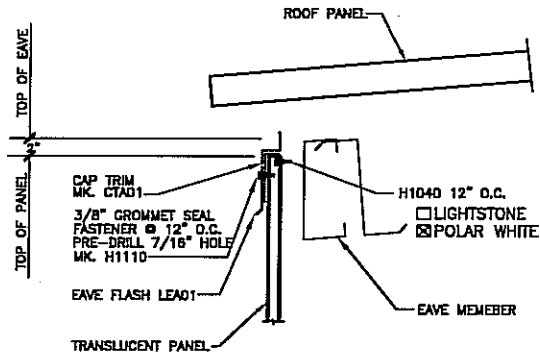
**TRANSLUCENT PANEL LAP**  
TRANSLUCENT PANEL TO METAL PANEL

1  
D20



**TRANSLUCENT PANEL SIDELAP DETAIL**  
TRANSLUCENT PANEL FASTENERS ARE  LIGHTSTONE  
 POLAR WHITE

2  
D20



ERECTOR NOTE:  
REFERENCE TYPICAL LOW EAVE  
DETAIL FOR GUTTER IF REQ'D

**LOW EAVE DETAIL**  
LOW EAVE @ TRANSLUCENT WALL PANEL

3  
D20

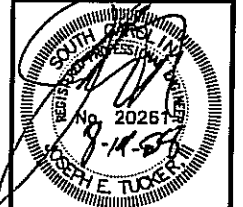
ISSUE	DATE	ENG	P.E.
PERMITS	5/23/08	JET	JET
APPROVALS	5/23/08	JET	JET
CRANE CONFIRMATION	5/23/08	JET	JET
FINAL ERECTION	8/20/08	JET	JET

**NUCOR BUILDING SYSTEMS**  
PO BOX 1006, 200 WHELISTONE RD.  
SWANSEA, SC 29160  
PHONE: (803) 568-2100  
FAX: (803) 568-2121

PROJECT NAME:  
OLYMPIC STEEL  
SUMTER, SC  
CUSTOMER:  
THOMPSON TURNER CONSTRUCTION CO.  
SUMTER, SC

JOB NUMBER:  
SOBA0248A

SHEET NO:  
D20 of 23

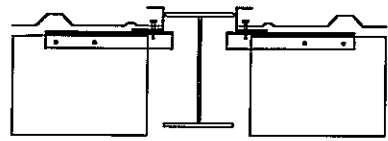


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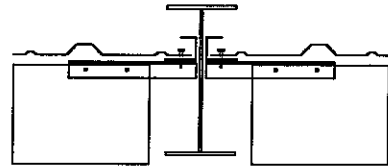
AUG 20 2008

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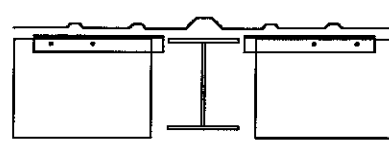
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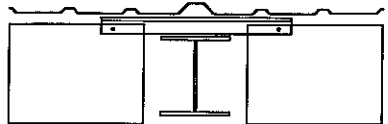
**BUILT UP COLUMN**  
(FLANGE EXTENDS PAST INSIDE FACE OF GIRT)



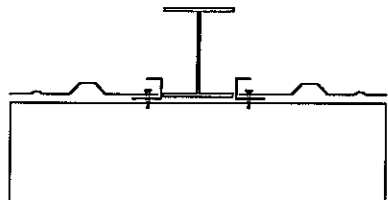
**BUILT UP COLUMN**  
(FLANGE EXTENDS PAST INSIDE FACE OF GIRT)



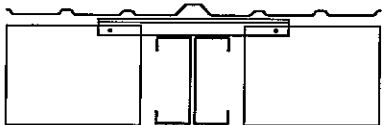
**BUILT UP COLUMN**  
(FLANGE FLUSH TO INSIDE FACE OF GIRT)



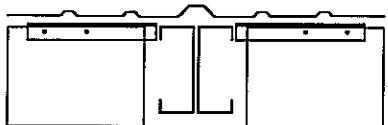
**BUILT UP COLUMN**  
(FLANGE INSET TO INSIDE FACE OF GIRT)



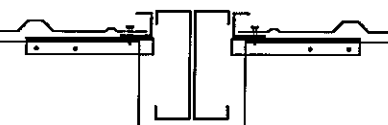
**BUILT UP COLUMN OR RAFTER**  
(GIRT OR PURLIN BYPASSES FRAME)



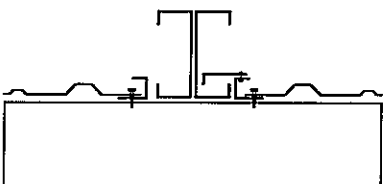
**SINGLE OR DOUBLE CEE COLUMN**  
(FLANGE INSET TO INSIDE FACE OF GIRT)



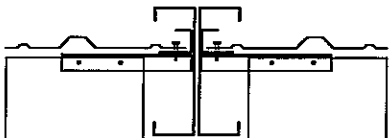
**SINGLE OR DOUBLE CEE COLUMN**  
(FLANGE FLUSH TO INSIDE FACE OF GIRT)



**SINGLE OR DOUBLE CEE COLUMN**  
(FLANGE EXTENDS PAST INSIDE FACE OF GIRT)



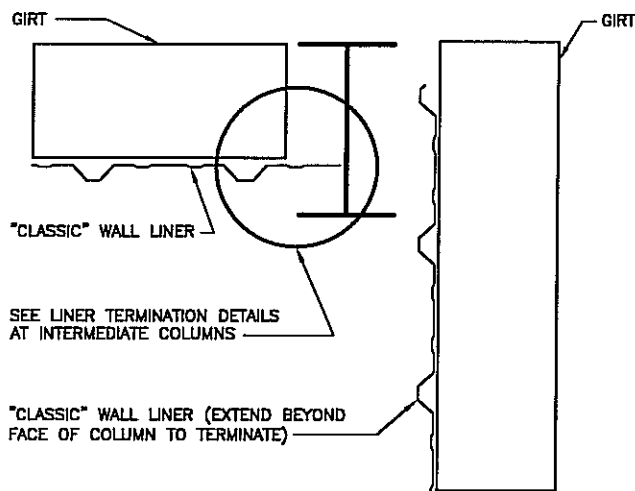
**SINGLE CEE COLUMN**  
(GIRT BYPASSES FRAME)



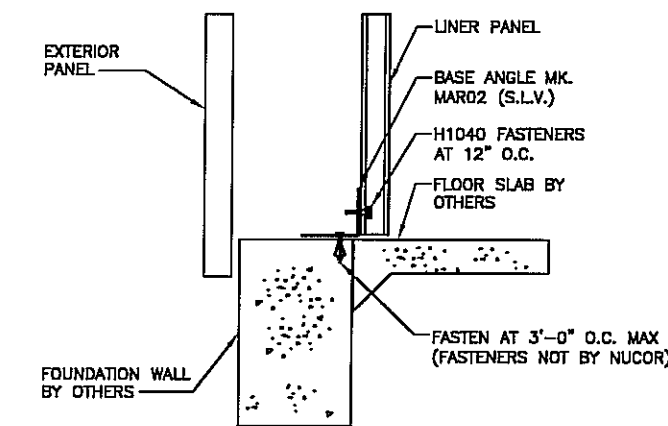
**SINGLE-DOUBLE 12" CEE COLUMN**  
(FLANGE EXTENDS PAST INSIDE FACE OF GIRT)

**PARTS LEGEND**

	MAG01 GIRT ANGLE WITH (2) H1020 FASTENERS
	MAG02 GIRT ANGLE WITH (2) H1020 FASTENERS
	HTD H1040 EACH SUPPORT, H1060 12" O.C. BETWEEN
	CTA01 CAP TRIM WITH H1100 RIVETS AT 36" O.C.



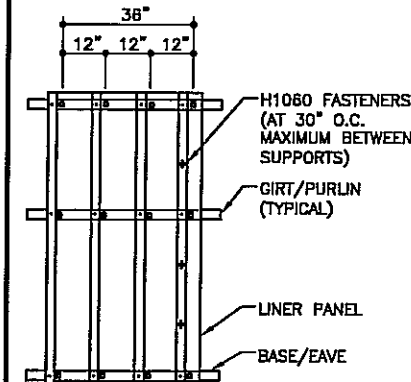
**"CLASSIC" LINER INSIDE CORNER** 3  
PANEL TERMINATION AT CORNER COLUMNS D21



**FINISHED FLOOR BASE DETAIL** 7  
LINER PANEL WITH BASE ANGLE D21

**ERECTOR NOTE:**

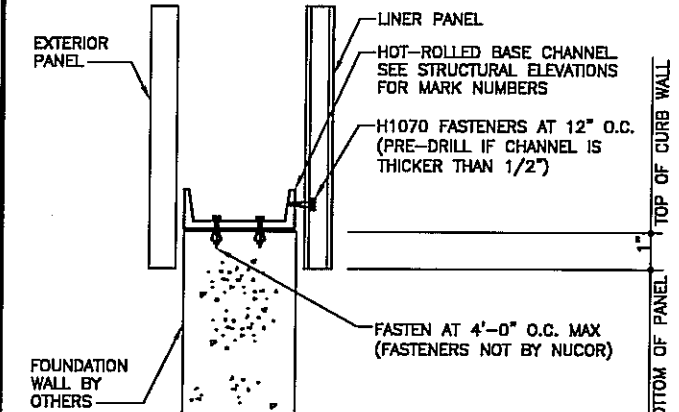
THE ERECTION OF THE LINER PANEL MUST BE COORDINATED PROPERLY WITH THE BRACING AND BRACE STRUTS TO ENSURE PROPER FIT-UP. IT IS THE ERECTOR'S RESPONSIBILITY TO ENSURE THAT THE STRUCTURE IS ADEQUATELY BRACED DURING THE ERECTION PROCESS. TEMPORARY REMOVAL OF BRACING AND BRACE STRUTS IS ACCEPTABLE FOR LINER PANEL ERECTION, PROVIDED ADEQUATE TEMPORARY BRACING IS USED.



**FASTENER CHART**

+	STITCH FASTENER H1080
□	STRUCTURAL FASTENER H1040 AT "CLASSIC" PANEL
●	STRUCTURAL FASTENER H1040 AT "REVERSE CLASSIC" H1040 AT "ACCENT" PANEL

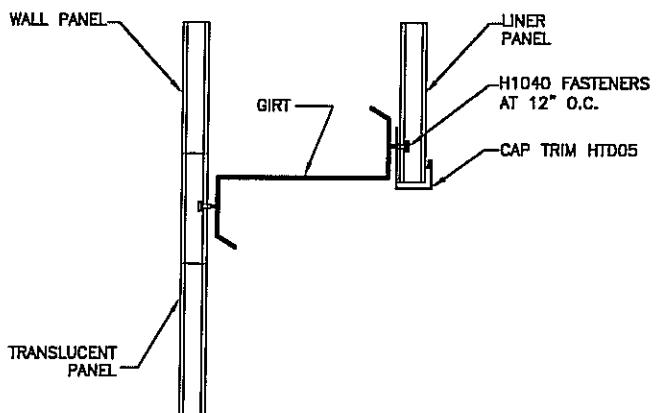
**WALL AND CEILING LINER PANEL ERECTION NOTES**  
(PANELS 36" NET LAY)



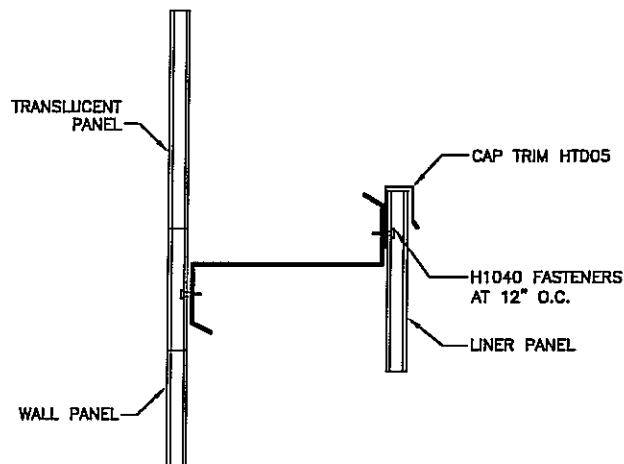
**TOP OF CURB WALL DETAIL** 8  
LINER PANEL WITH HOT-ROLLED BASE CHANNEL D21

**"CLASSIC" LINER TERMINATION DETAILS AT INTERMEDIATE COLUMNS** 1

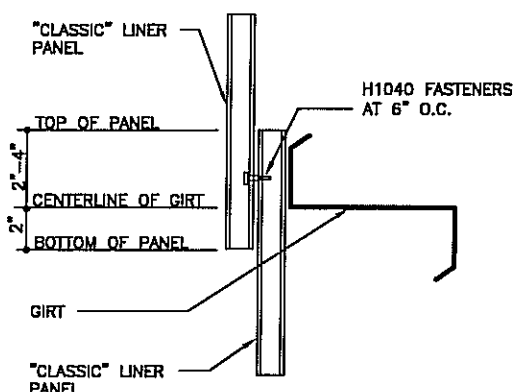
D21



**LINER PANEL DETAIL** 9  
AT WALL LITES WITH LINER PANEL D21



**LINER PANEL DETAIL** 10  
AT WALL LITES WITH LINER PANEL D21



**STANDARD LINER PANEL LAP** 11  
"CLASSIC" LINER PANEL D21

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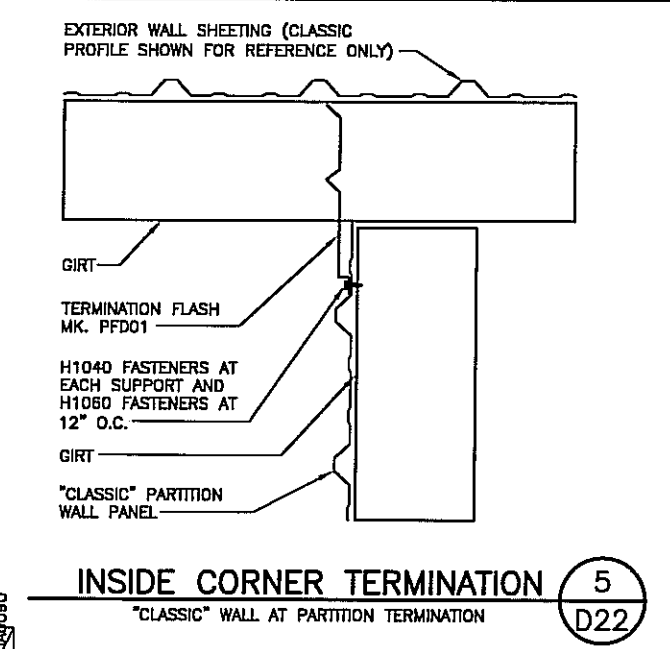
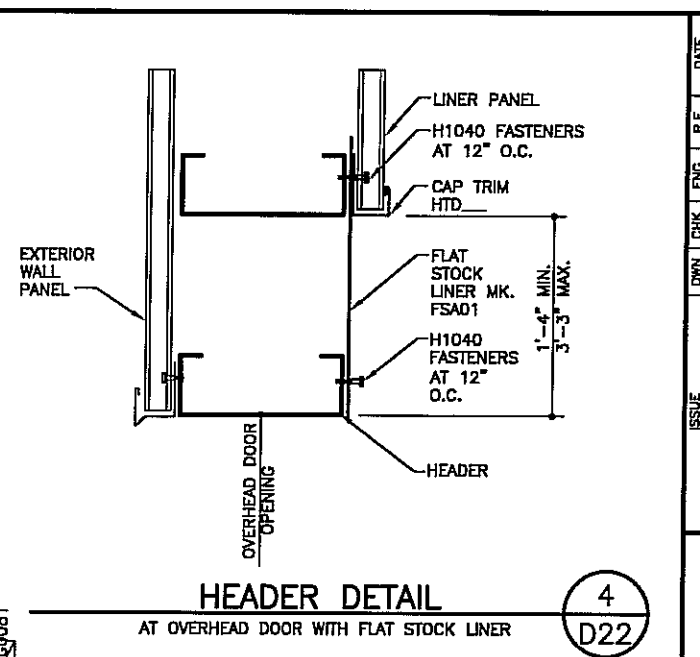
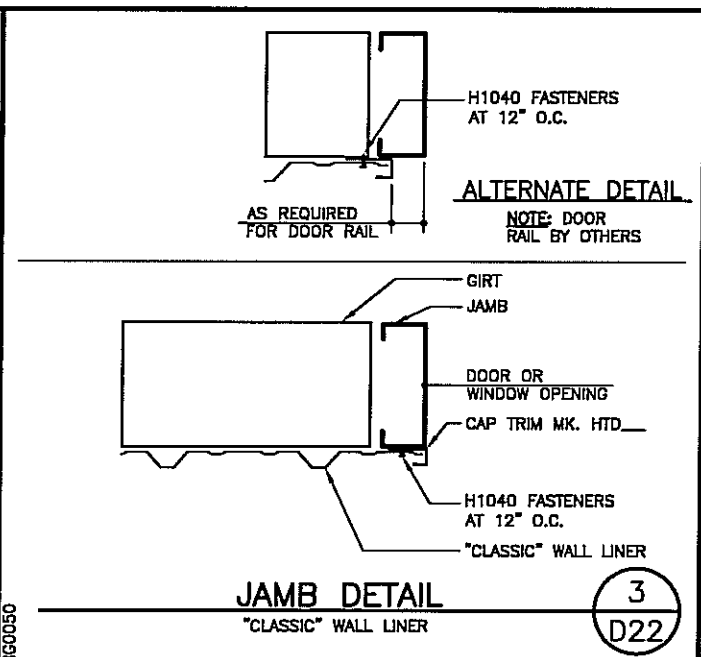
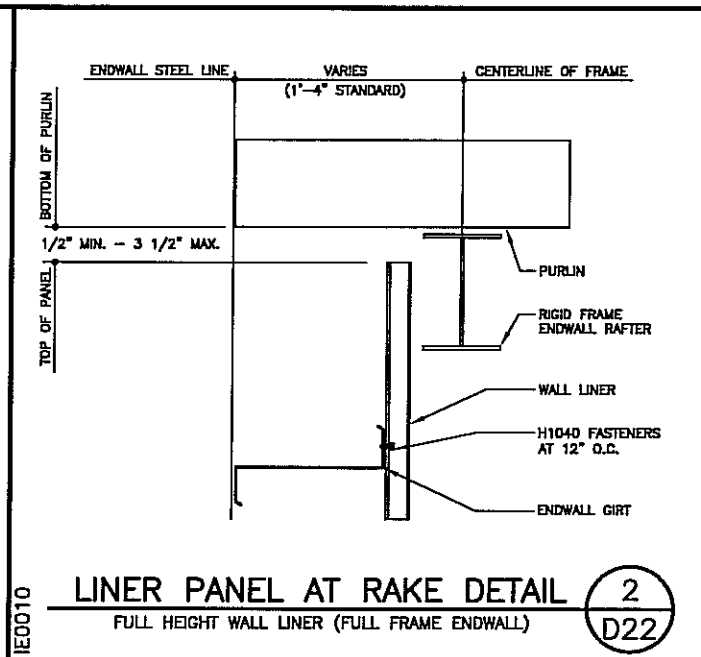
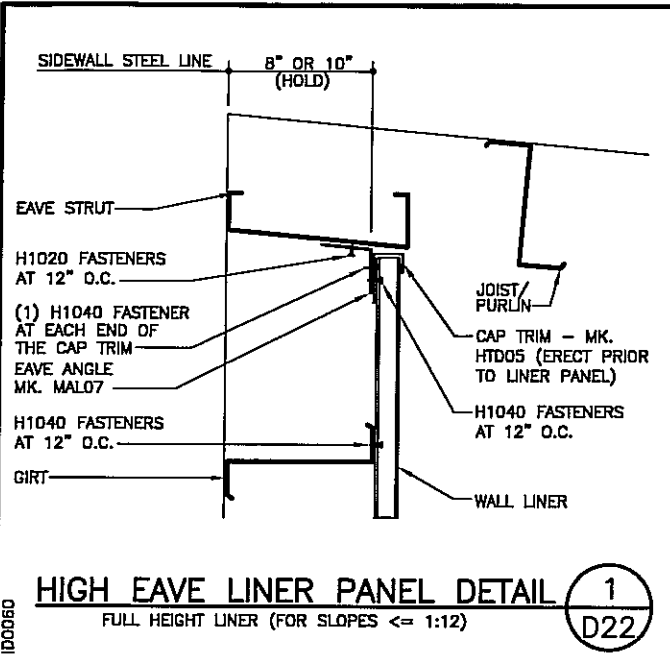
DATE	ISSUE	PERMITS	APPROVALS	CRANE CONFIRMATION	FINAL ERECTION
5/23/08	JET				
5/23/08	JET				
5/23/08	JET				
8/20/08	JET				

**NUCOR BUILDING SYSTEMS**  
PO BOX 1006, 200 WHELISTONE RD.  
SWANSEA, SC 29160  
PHONE: (803) 568-2100  
FAX: (803) 568-2121

PROJECT NAME: OLYMPIC STEEL  
SUNTER, SC  
CUSTOMER: THOMPSON TURNER CONSTRUCTION CO.  
SUNTER, SC

JOB NUMBER: SOBA0248A

SHEET NO: D21 of 23



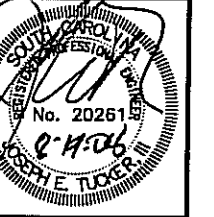
ISSUE	DATE
PERMITS	5/25/08
APPROVALS	5/25/08
CRANE CONFIRMATION	5/25/08
FINAL ERECTION	8/20/08

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PO BOX 1006, 200 WHELSTONE RD.  
SWANSEA, SC 29160  
PHONE: (803) 568-2100  
FAX: (803) 568-2121

PROJECT NAME: OLYMPIC STEEL  
SUMTER, SC  
CUSTOMER: THOMPSON TURNER CONSTRUCTION CO.  
SUMTER, SC

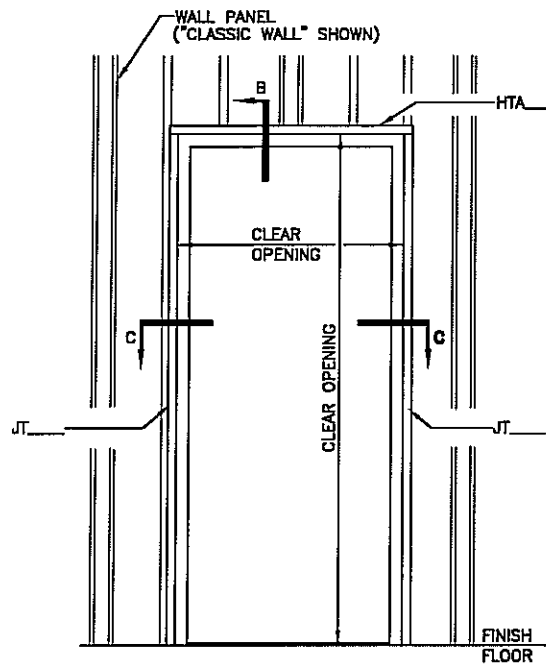
JOB NUMBER: S08A0248A

SHEET NO: D22 of 23

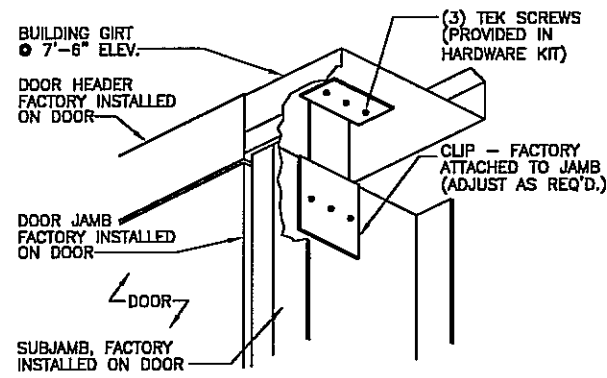


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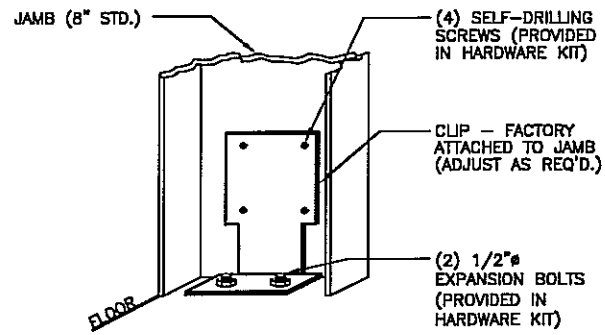
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DOOR TRIM ELEVATION



DOOR FRAME INSTALLATION AT TOP  
STAND FRAME & ADJUST CLIP AT JAMB AS REQUIRED.

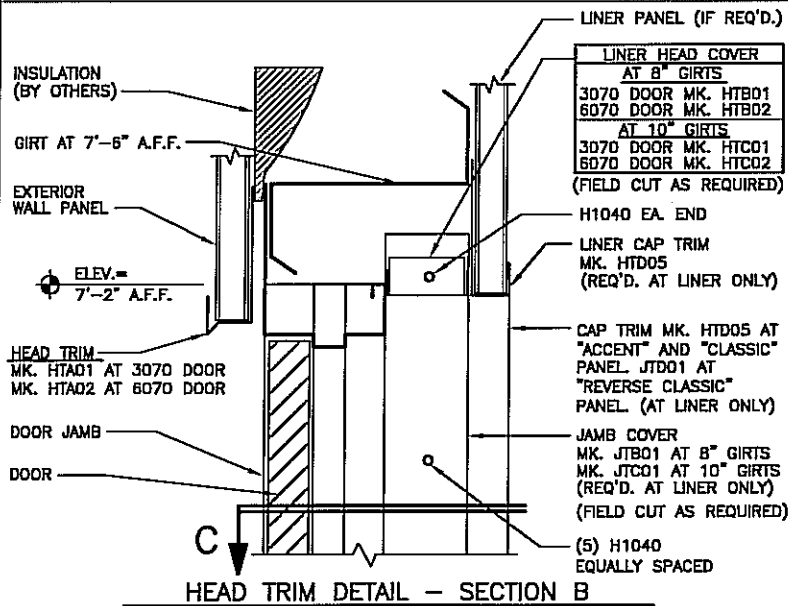


DOOR FRAME INSTALLATION AT BASE  
STAND FRAME & ADJUST CLIP AT JAMB AS REQ'D.  
ATTACH CLIP TO GIRT W/ (3) SELF-DRILLING SCREWS.

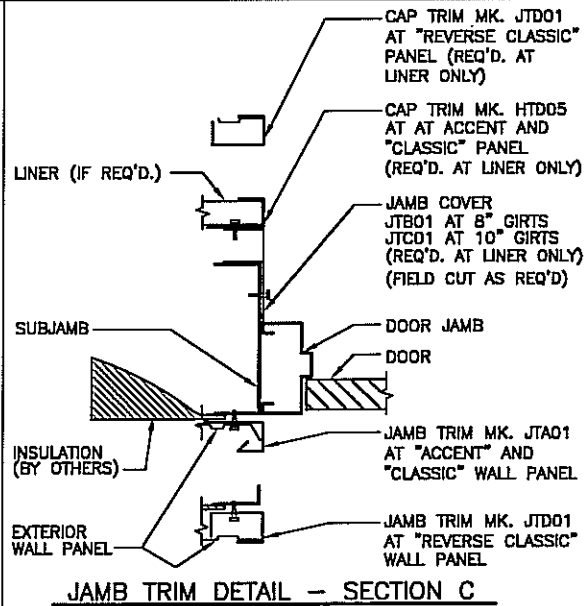
NUCOR WALKDOOR  
ERECTION DETAILS

USE ONLY WHERE STANDARD NUCOR DOORS ARE REQUIRED. SEE COVERSHEET (SHEET C1) FOR STANDARD DOOR REQUIREMENTS.

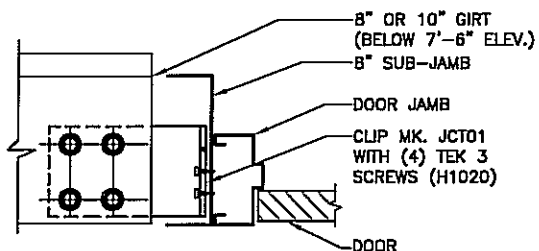
GA0010



HEAD TRIM DETAIL - SECTION B

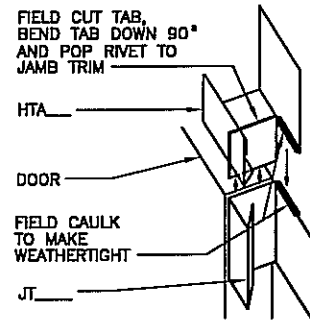


JAMB TRIM DETAIL - SECTION C



GIRT TO SUBJAMB DETAIL

USE (4) 1/2" X 1 1/2" A307 BOLTS H0500/NUTS H0400  
FIELD CUT GIRT TO LENGTH AS REQUIRED.  
FIELD WORK HOLES IN GIRT TO ACCEPT CLIP AS REQUIRED.  
REFERENCE STANDARD WASHER DETAIL FOR TYPICAL WASHER REQUIREMENTS



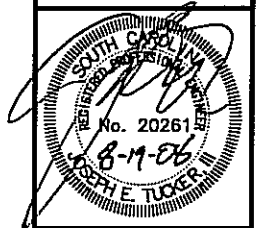
TRIM CORNER DETAIL  
TOP RIGHT CORNER SHOWN

ISSUE	DATE	P.E.	ENG.	CHK.	DRN.
PERMITS	5/23/08	JET	JET	JET	JET
APPROVALS	5/23/08	JET	JET	JET	JET
CRANE CONFIRMATION	5/23/08	JET	JET	JET	JET
FINAL ERECTION	6/20/08	JET	JET	JET	JET

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SUMTER, SC

JOB NUMBER: S08A0248A  
SHEET NO: D23 of 23



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