

TYPICAL WASHER REQUIREMENTS

ERECTOR NOTE

(UNLESS NOTED OTHERWISE ON DRAWINGS)

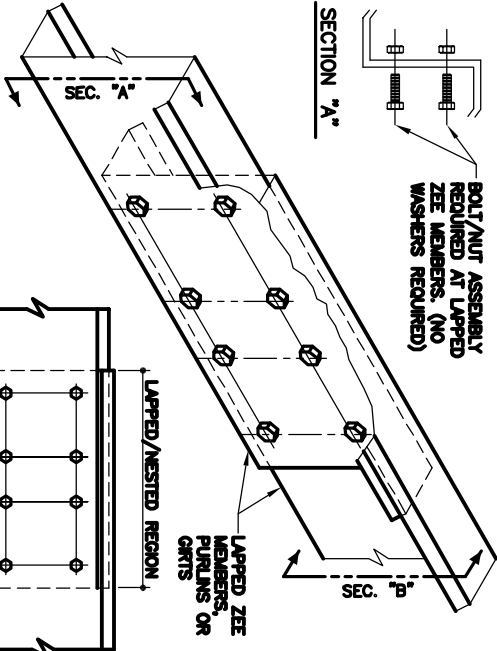


WASHER PART NUMBERS

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	

BOLT/NUT ASSEMBLY REQUIRED AT LAPPED ZEE MEMBERS. (NO WASHERS REQUIRED)

SECTION "A"



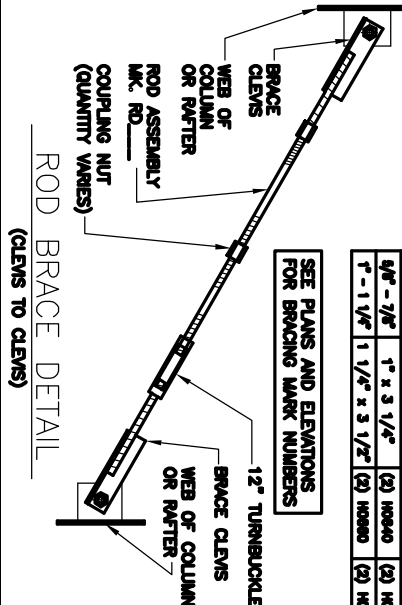
NO WASHERS REQUIRED AT BOLTS USED IN THE LAPPED REGIONS OF ZEE MEMBERS.

SECTION "B"

ROD DIAMETERS	MARK NUMBER	TURNBUCKLES	COUPLING NUTS	BRACE CLEWS (AT TURNBUCKLES)	BRACE CLEWS (AT COUPLING NUT)
5/8"	ROB —	(1) H0710	(1) H0810	(1) B0302	(1) B0307
3/4"	ROD —	(1) H0720	(1) H0820	(1) B0303	(1) B0308
7/8"	ROD —	(1) H0730	(1) H0830	(1) B0304	(1) B0309
1"	ROD —	(1) H0740	(1) H0840	(1) B0305	(1) B0308
1 1/8"	ROD —	(1) H0750	(1) H0850	(1) B0307	(1) B0309
1 1/4"	ROD —	(1) H0760	(1) H0860	(1) B0308	(1) B0304

ROD DIAMETER AND LENGTH	BOLT DIAMETER AND LENGTH	A325 BOLTS	A325 NUTS
9/8" - 7/8"	1" x 3 1/4"	(2) H0840	(2) H0330
1" - 1 1/8"	1 1/4" x 3 1/2"	(2) H0860	(2) H0340

SEE PLANS AND ELEVATIONS FOR BRACING MARK NUMBERS



AF0030

TYPICAL FIELD WELD

REQUIREMENTS ERECTOR NOTE:

(UNLESS NOTED OTHERWISE ON DRAWINGS)

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

GALVANIZED STEEL FIELD WELDING

RECOMMENDATIONS

PREPARATION OF WELD AREA

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

TOUCH-UP OF WELD AREA

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

SAFETY & HEALTH

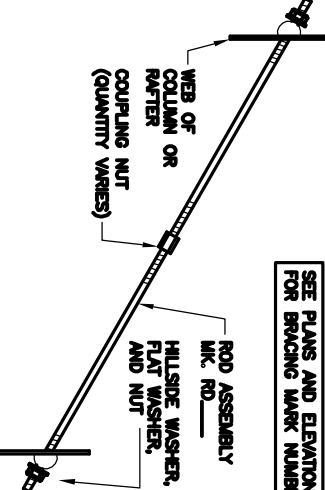
WHEN WELDING DIRECTLY ON GALVANIZED STEEL IS UNAVOIDABLE, OSHA PERMISSIBLE EXPOSURE LIMITS (PELS) MAY BE EXCEEDED AND EVERY PRECAUTION, INCLUDING HIGH-VELOCITY CIRCULATING FANS WITH FILTERS, AIR RESPIRATORS AND FUME-EXTRACTION SYSTEMS SUGGESTED BY AWS, SHOULD BE EMPLOYED. FUMES FROM WELDING GALVANIZED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

PRIOR TO WELDING ON ANY METAL, CONSULT ANSI/ASC Z49.1, 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

AF0010

ROD BRACE DETAIL
(WEB TO WEB)

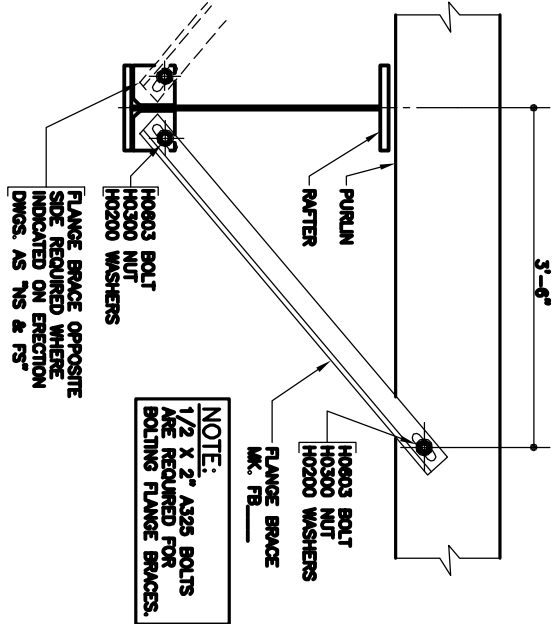


SEE PLANS AND ELEVATIONS FOR BRACING MARK NUMBERS

ROD DIAMETER	MARK NUMBER	HILTSIDE WASHERS	FLAT WASHERS	A307/A325 NUTS	COUPLING NUTS
5/8" Ø	ROB —	(2) H0830	(2) H0210	(2) H0310	H0810
3/4" Ø	ROD —	(2) H0830	(2) H0220	(2) H0320	H0820
7/8" Ø	ROD —	(2) H0830	(2) H0230	(2) H0330	H0830
1" Ø	ROD —	(2) H0860	(2) H0240	(2) H0330	H0840
1 1/8" Ø	ROD —	(2) H0860	(2) H0250	(2) H0450	H0850
1 1/4" Ø	ROD —	(2) H0860	(2) H0260	(2) H0340	H0860

AG0010

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



DATE	P.E.	ENG.	CHK.	DWN.	ISSUE
11/26/08		22	SR	BN/EN	APPROVAL
01/29/09		22		TF	REVISED APPROVAL
03/17/09		25		HF	PERMITS FOR APPROVAL
04/08/09				NS	REVISED APPROVALS

ZUCOR
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PROJECT NAME:	ASHISH MISHRA
JOB NUMBER:	T08H0501A
CUSTOMER:	METAL BUILDERS SUPPLY PEARL, MS

SHEET NO:	D1 of 14
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