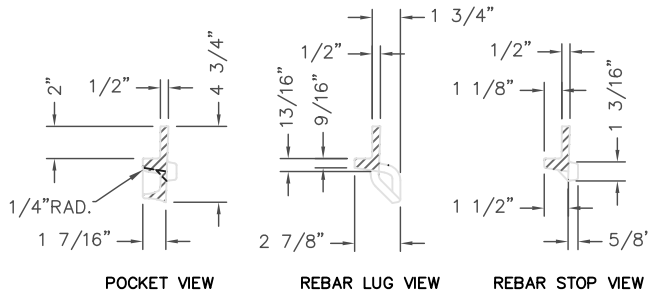
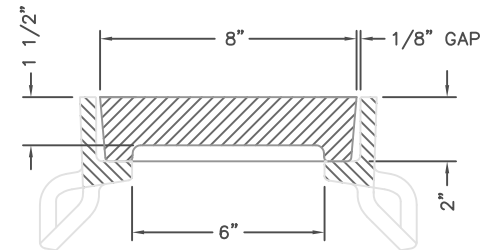


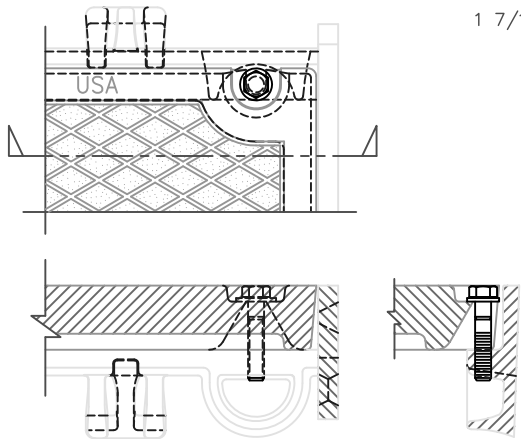
LID BOLTED TO FRAME w/ (4)
 1/2 - 13 X 2 1/2" STNLS. STL.
 HEX. HD. CAP SCREW w/ WASHER



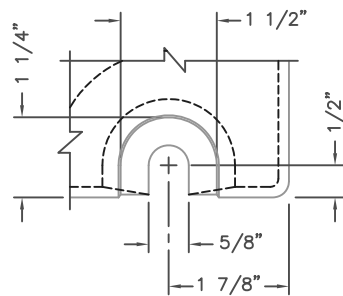
SIDE FRAME SECTION VIEWS



R-4990-AA BOLTED
 TYPE "D" LID AND TYPE "B" FRAME
 TYPICAL SECTION
 SCALE 1:4



FRAME AND COVER
 SHOWING DEBRIS CHUTE
 SCALE 1:4



TYPICAL BOLT SLOT DETAIL
 SCALE 1:2

COMP. NOS.: SIDE FRAME 4999-2400; END FRAME 4990-3108;
 LID 4999-2XXX (NEW PATTERN)
 MATERIAL: SIDE FRAMES - CAST GRAY IRON ASTM A-48, CLASS 35A,
 END FRAMES - CAST GRAY IRON ASTM A-48, CLASS 35B,
 LIDS - CAST DUCTILE IRON ASTM A536, GRADE 80-55-06
 FINISH: NO PAINT

06-05-2013	CHANGED THE FRAME METAL SPEC PER RYAN HERNIKE	ELN
DATE	REVISION	INT

DR. E. NIVER	SCALE 1/8"=1"	TITLE: R-4990-AA DOUBLE BOLT STYLE TYPE "D" LID w/ TYPE "B" FRAME
CH.		
APP.	DIM CHK.	NEENAH FOUNDRY COMPANY NEENAH WISCONSIN 54956
DATE 11-20-2009		NEF NF-
		B