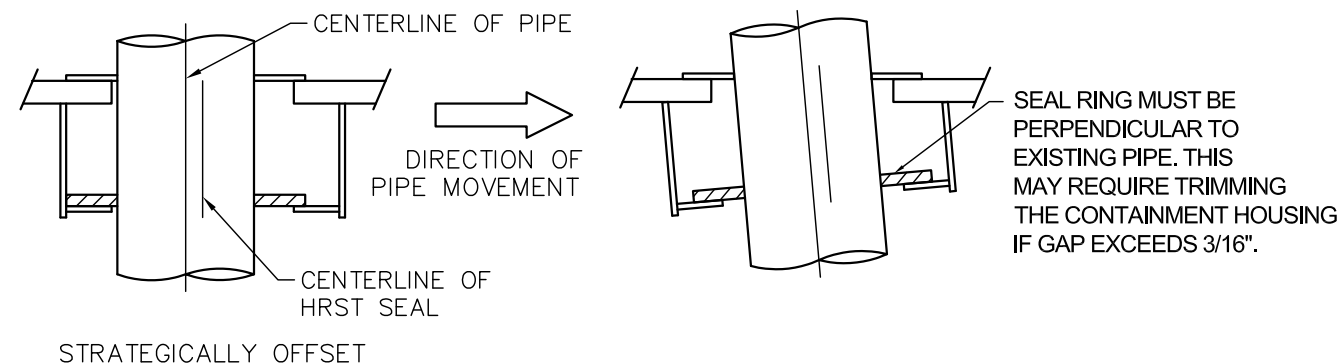


SEAL LOCATION NOTE:

FOR MAXIMUM LATERAL MOVEMENT, POSITION PENETRATION SEAL AS FAR AS POSSIBLE IN THE DIRECTION OF NOZZLE MOVEMENT. SEE CHART ABOVE FOR MAXIMUM LATERAL MOVEMENT FOR EACH NOMINAL PIPE SIZE.

NOM PIPE SIZE	MAX. LATERAL MOVEMENT
3/4 - 1 1/2	1"
2 - 6	1 1/2"
8 - 22	2"



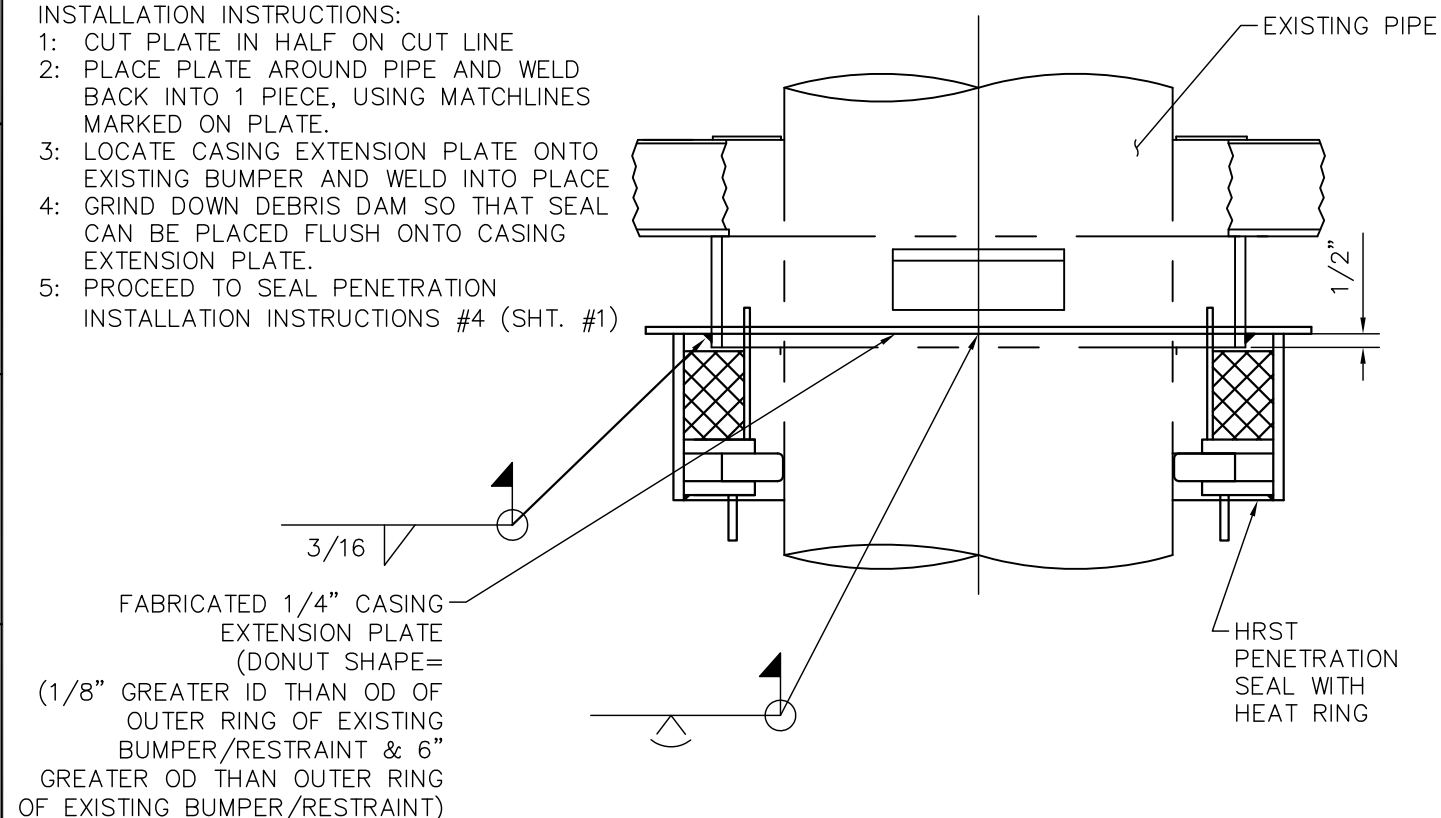
IMPORTANT NOTE:

THE PENETRATION SEAL IS NOT INTENDED TO ACT AS A PIPE RESTRAINT. IF THE LATERAL MOVEMENT OF THE PIPE IS GREATER THE "MAXIMUM LATERAL MOVEMENT" SPECIFIED IN THE CHART ABOVE, DAMAGE TO THE PENETRATION SEAL CAN OCCUR.

INSTALLATION INSTRUCTIONS:

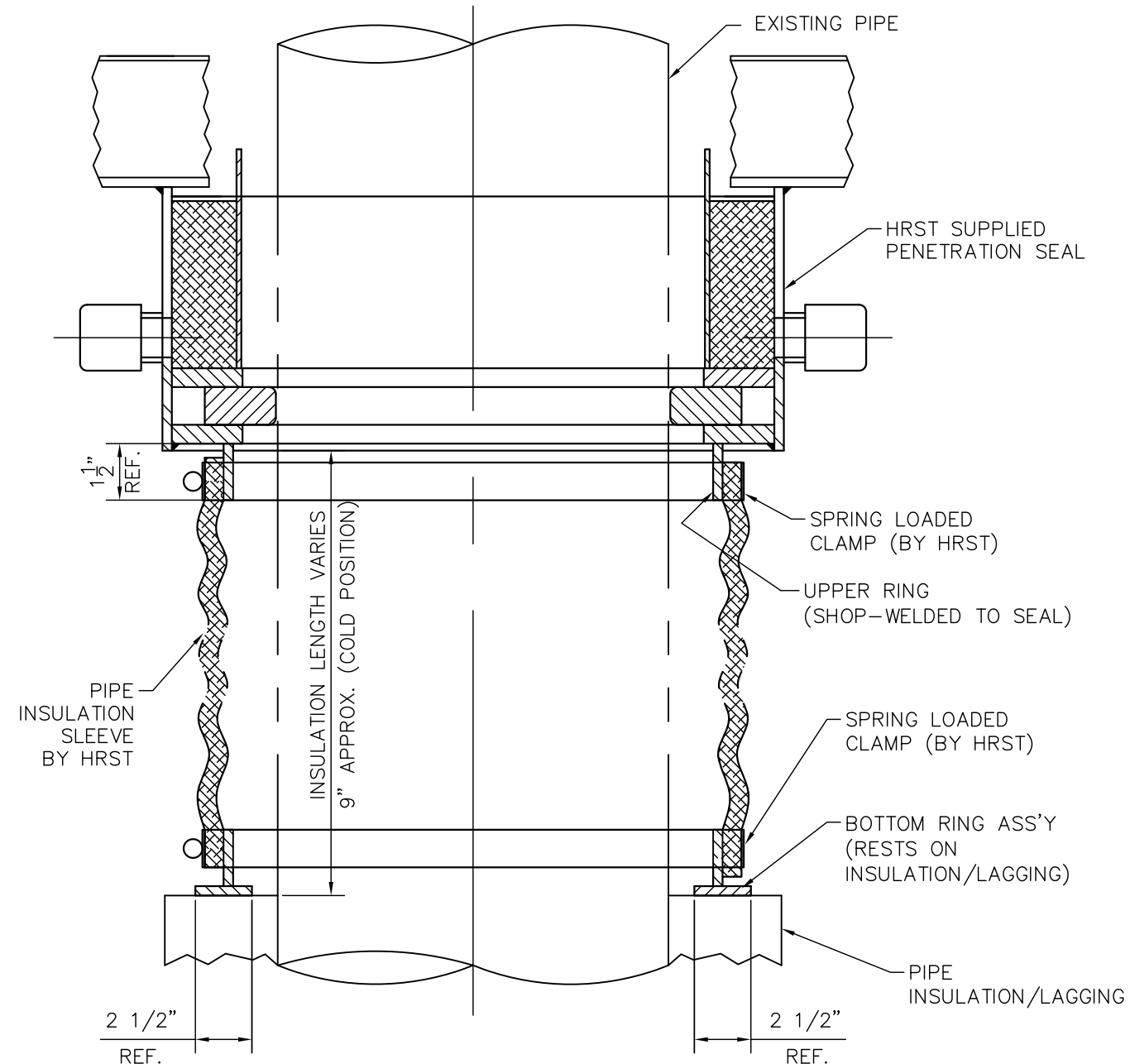
- 1: CUT PLATE IN HALF ON CUT LINE
- 2: PLACE PLATE AROUND PIPE AND WELD BACK INTO 1 PIECE, USING MATCHLINES MARKED ON PLATE.
- 3: LOCATE CASING EXTENSION PLATE ONTO EXISTING BUMPER AND WELD INTO PLACE
- 4: GRIND DOWN DEBRIS DAM SO THAT SEAL CAN BE PLACED FLUSH ONTO CASING EXTENSION PLATE.
- 5: PROCEED TO SEAL PENETRATION

INSTALLATION INSTRUCTIONS #4 (SHT. #1)



INSTALLATION OF CASING EXTENSION PLATE


WHEN PIPE BUMPERS/RESTRAINTS ARE FOUND UNDER EXISTING SEAL



INSTALLATION OF HEAT BLANKET

INSTALLATION INSTRUCTIONS:

1. REMOVE APPROX. 9" (FROM BOTTOM OF SEAL) OF INSULATION/LAGGING COMPLETELY FROM EXISTING PIPE.
2. PLACE BOTTOM HEAT RING ON TOP OF INSULATION/LAGGING BELOW PENETRATION SEAL.
3. WELD (2) HALVES OF BOTTOM RING ASS'Y TOGETHER.
4. WRAP HEAT BLANKET AROUND OUTSIDE OF HEAT RINGS.
5. STRAP BLANKET TO HEAT RINGS WITH SPRING LOADED CLAMPS (PROVIDED BY HRST).
6. LACE BLANKET CLOSED USING FLEXIBLE WIRE.

THIS DRAWING IS ISSUED IN CONFIDENCE FOR ENGINEERING INFORMATION ONLY AND MAY NOT BE REPRODUCED, DISCLOSED TO THIRD PARTIES OR USED TO MANUFACTURE ANYTHING SHOWN HEREON WITHOUT DIRECT WRITTEN PERMISSION FROM HRST INC.		TOLERANCE FRACTIONS: $\pm 1/16"$ DECIMALS: $\pm .010"$ ANGLES: $\pm 1'$ OR AS STATED OTHERWISE		 Heat Recovery System Technology	
BOTTOM PENETRATION SEAL -SERIES 4- WITH HEAT RINGS AND INSULATION SLEEVE INSTALLATION INSTRUCTIONS					
CUSTOMER:					
LOCATION:				CUSTOMER P.O. NO.:	
DRAWN BY EEO	DATE 2/1/12	CHECKED BY	DATE	PROJ. NO.:	STANDARD
SCALE		PROJ. MGR	DATE	DWG. NO. 7700682	SHT 2 OF 2