

DETAIL 1 - NOTES:

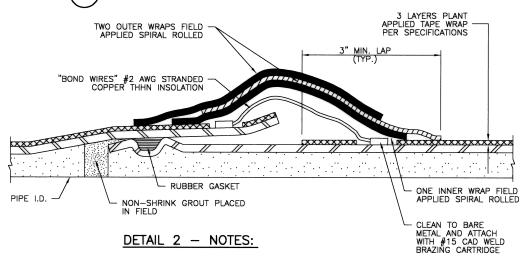
- 1. STEEL BONDING CLIP:

 MATERIAL SPECIFICATION --- ASTM A366 (COMMERCIAL QUALITY)

 CUT LENTH ---- 2½ ± ½6"

 WIDTH----- 1¼" ± ½6"
- 2. LYTHERM FILLER STRIP TO BE 1" \times $1\frac{1}{2}$ " WIDE TO OVERLAP SIDES OF CLIP.
- CRIMP JUMPER OVER FILLER AT "A" TO COMPRESS FILLER CLOSE AT PT. "A" AS MUCH AS POSSIBLE WITHOUT CUTTING FILLER PAD.
- 4. THREE BONDING CLIPS ARE REQUIRED PER GASKETED JOINT (TYPICAL).
- 5. BONDING NOT REQUIRED FOR WELDED JOINTS.

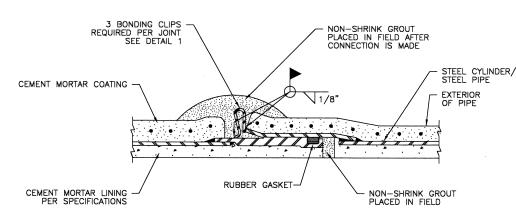
STEEL BONDING CLIP DETAIL



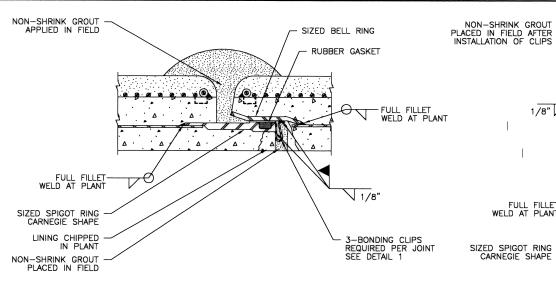
- 1. STEEL BONDING CLIP IS OPTIONAL TO BOND WIRE.
- A MINIMUM OF TWO BOND WIRES OR THREE BONDING CLIPS ARE REQUIRED FOR RUBBER GASKETED STEEL PIPE. CLIPS ARE TO BE PROVIDED IN ACCORDANCE WITH DETAILS.
- 3. BONDING NOT REQUIRED FOR WELDED JOINTS.

O-RING STEEL PIPE JOINT DETAIL

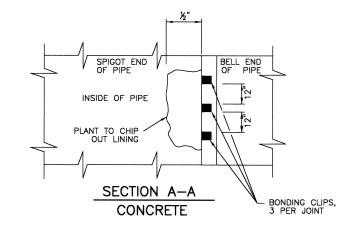
(CEMENT MORTAR LINED & TAPE WRAPPED SHOWN. FLEXIBLE LINING SIMILAR)

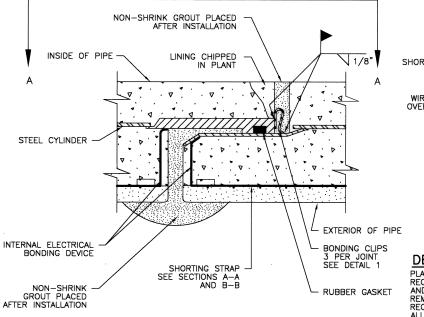


BONDED JOINT - MORTAR COATED STEEL PIPE 5

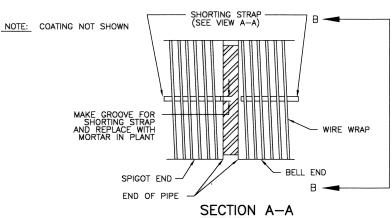


BONDED JOINT - EMBEDDED CYLINDER PIPE

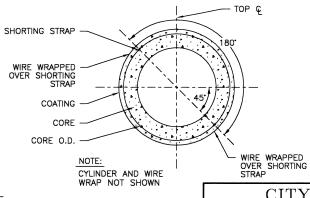




BONDED JOINT - BAR WRAPPED CYLINDER PIPE (SIMILAR FOR LINED CYLINDER PIPE)



REINFORCEMENT



SECTION B-B

DETAIL 6 - NOTES: PLACE BONDING CLIPS IN INTERIOR JOINT RECESS AS SHOWN. WELD CLIPS TO BELL AND SPIGOT USING &" FILLET WELD. REMOVE SLAG FROM WELD AND FILL RECESS WITH CEMENT MORTAR, COVERING ALL EXPOSED STREET

1/8"

FULL FILLET WELD AT PLANT

SIZED SPIGOT RING CARNEGIE SHAPE

ALL EXPOSED STEEL.

ACTING CITY ENGINEER

EFF DATE: MAR-20-2018

CITY OF HOUSTON HOUSTON PUBLIC WORKS

3-BONDING CLIPS REQUIRED PER JOINT SEE DETAIL 1

RUBBER GASKET

FULL FILLET WELD AT PLANT

NON-SHRINK GROUT

PLACED IN FIELD

STANDARD LDWL CATHODIC PROTECTION DETAILS FOR JOINT BONDING (SHEET 1 OF 2)

(NOT TO SCALE)

PPROVED BY HOUSTON PUBLIC WORKS DWG NO: 15640-01

ELECTRICAL CONTINUITY BONDING OF EMBEDDED CYLINDER PIPE 6