1. Install two (2) anodes in each hole drilled. Drill to ground water or 12" to 24" below pipe and wire separately.

2. Allow 12" slack in wires and tape at conduit entrance 3' long with four layers of electricians tape.

3. Label wires in anode test station using 1" stamped brass tags.

4. 3" galvanized pipe marker required only at LBWD's direction.

**NOTES:**

- 0.01 - ohm shunt, 8-amp capacity
- #14 awg/rhh - rhw cp coupon lead
- #12 awg/hmwpe pipe lead
- #8 awg/hmwpe anode header cable (red)
- #12 awg/hmwpe new structure leads
- #14 awg/rhh - rhw ref cell lead
- #14 awg/rhh - rhw cp coupon lead
HIGH POTENTIAL MAGNESIUM ANODE

CP COUPON & REFERENCE CELL ASSEMBLY

ANODE LEAD NO. 12 AWG.
COPPER WIRE W/ THHN BLACK INSUL.
SECURE W/ THE WIRE SILVER SOLDERED CONNECTION
EPOXY MAGNESIUM ALLOY ANGOT
GALV. STEEL CORE CLOTH BAG
PACKAGED BACKFILL, SEE NOTE 2

14-1/4" 11-1/8" 11"
10-3/8"
12" 11-3/8"

#12 AWG/THHN ANODE LEAD
#14 AWG/RRH-RHW ANODE HEADER CABLE
SPLICING

#14 AWG/RRH-RHW REF CELL LEAD
#14 AWG/RRH-RHW CP COUPON LEAD

EPOXY RESIN OR NON TOXIC SEALANT FILLABLE LOCKABLE HOUSING
CABLE SEALED TO MOLD WITH TAPE STRIPS SUPPLIED WITH KIT (3 PLACES)

SPLICING

TEST BOX

NOTES:
1. MAGNESIUM ANODE DIMENSIONS 4" x 4" x 60".
2. SEE SPECIFICATIONS FOR CHEMICAL COMPOSITION AND BACKFILL.
3. IMPORTANT NOTE: REMOVE PLASTIC BAG FROM ANODE BEFORE INSTALLING.
4. CONTRACTOR CAN INSTALL ANODE IN THE HORIZONTAL POSITION AS DIRECTED BY LBWD.
NOTES:

1. EXOTHERMIC WELD ALLOT BE SUITABLE FOR TYPE OF PIPE METAL (I.E. STEEL OR IRON).
2. REMOVE COATING AS REQUIRED TO FACILITATE INSTALLATION. CLEAN STEEL WITH WIRE BRUSH METHOD AND GRIND TO BRIGHT METAL PRIOR TO WELDING.
3. WELD WIRE TO PIPE FOLLOWING WELD MANUFACTURER'S DIRECTION.
4. STRIKE SIDE OF WELD SOLIDLY WITH A 16 OZ. OR LARGER HAMMER TO TEST WELD.
5. FOR CML&C PIPE, REMOVE FLUX, COAT WITH BITUMINOUS PRIMER (OPTIONAL), AND RECOAT WITH MORTAR.
6. FOR NON-CML&C PIPE COAT WITH BITUMINOUS PRIMER, APPLY "HANDY CAP" OVER EXOTHERMIC WELD. APPLY COATING TO MATCH EXISTING

STEP 1
FILE SURFACE TO BRIGHT METAL AND CLEAN.

STEP 2
STRIP INSULATION FROM WIRE

STEP 3
HOLD WELDER FIRMLY WITH OPENING AWAY FROM OPERATOR AND IGNITE STARTING POWDER

STEP 4
REMOVE SLAG FROM CONNECTION

STEP 5
COVER CONNECTION WITH BITUMINOUS COMPOUND

NOTES:

1. WELDER SHOWN IS FOR HORIZONTAL SURFACES. FOR VERTICAL SURFACES SIDE WELDER IS REQUIRED.
2. ALL WIRE SHALL BE 3" APART MINIMUM TO PERMIT WELDING.
3. STANDARD WELD CARTRIDGES SHALL BE USED FOR STEEL SURFACES.