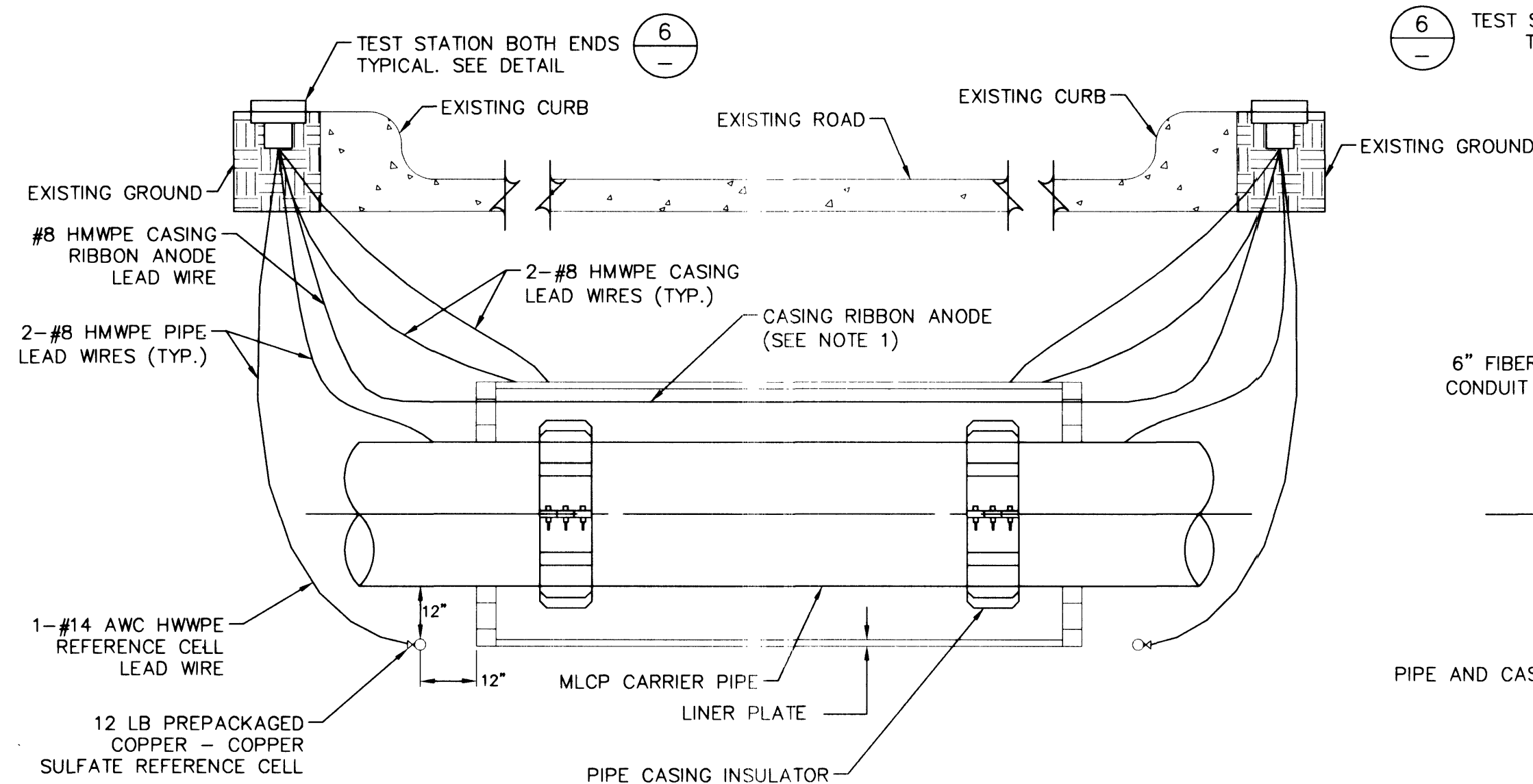
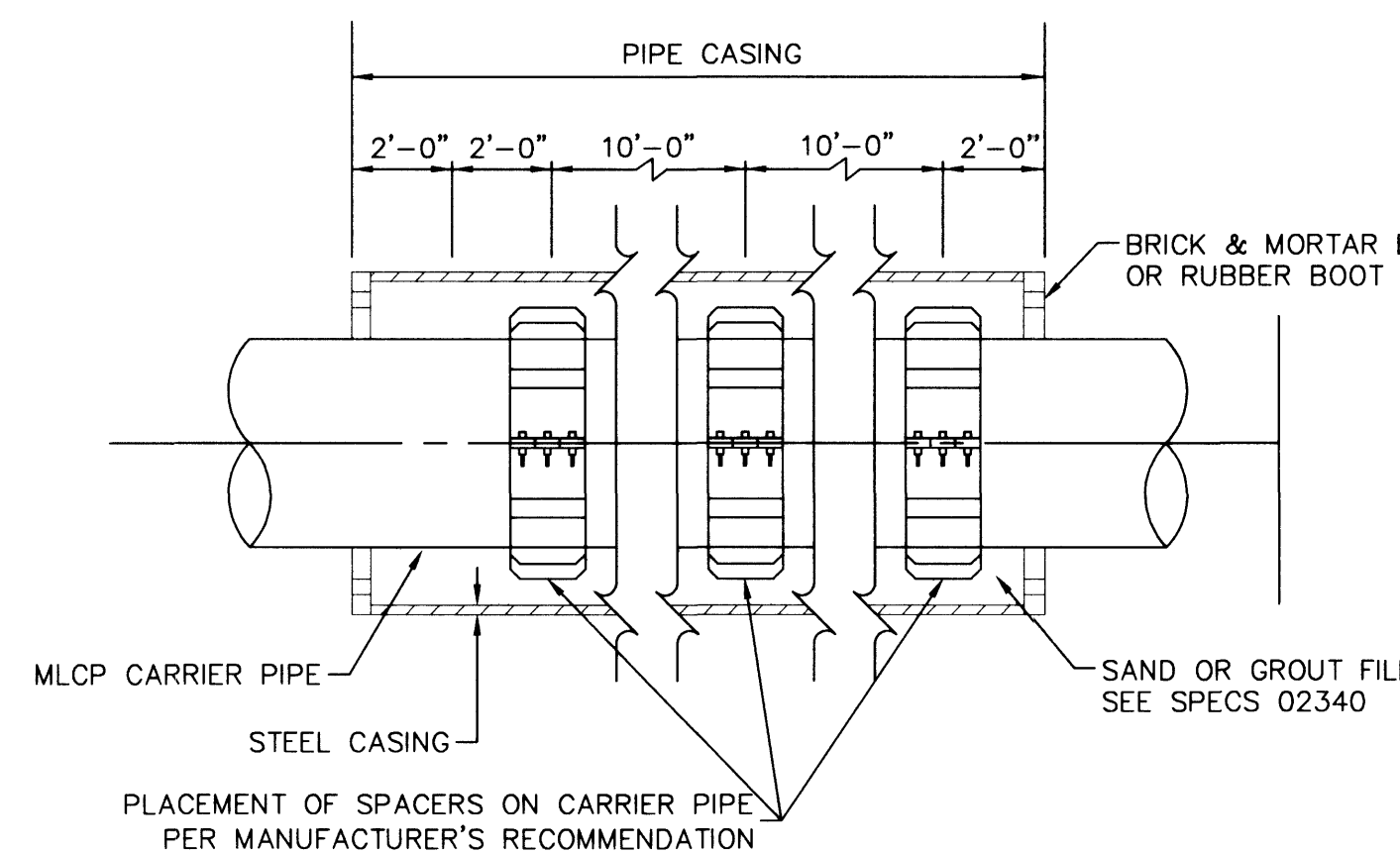
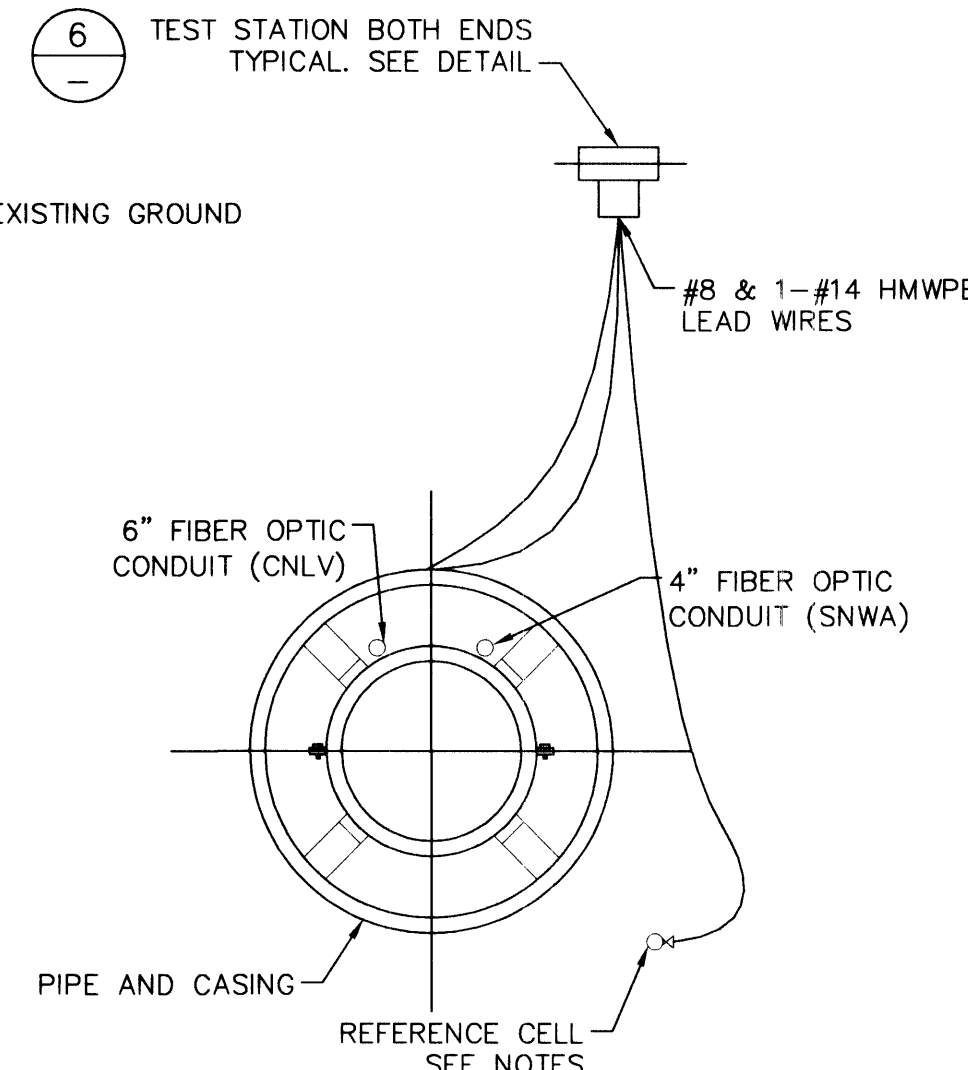


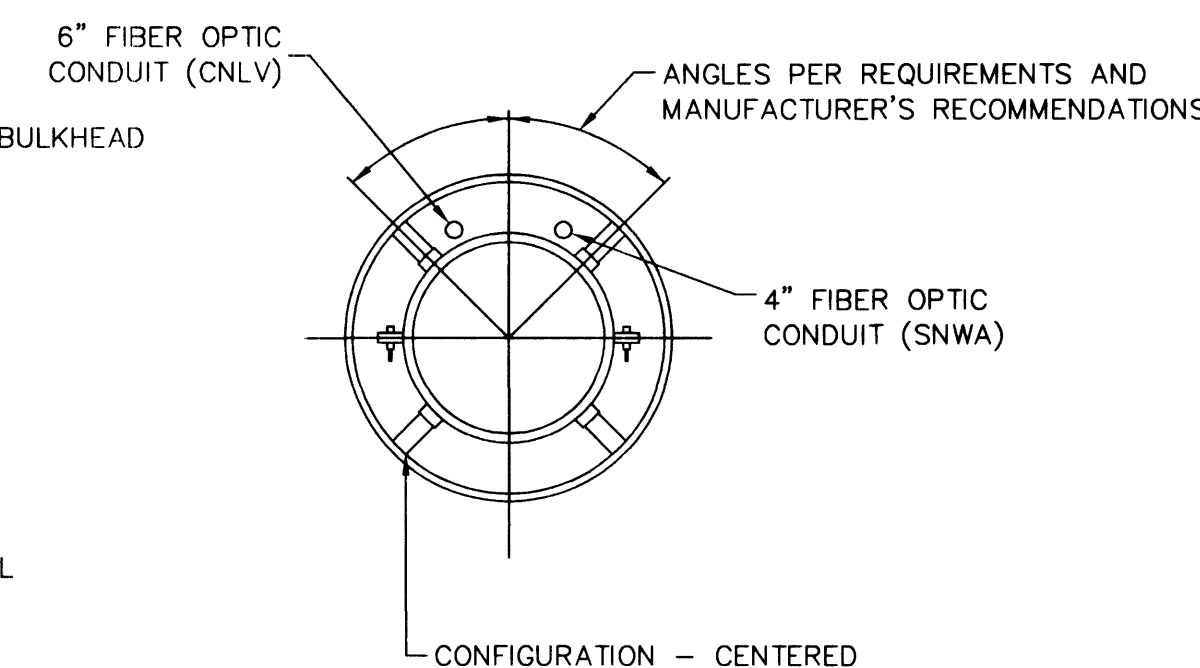


- NOTE:**
1. ROUTE CASING RIBBON ANODE ALONG PIPE WITHIN CASING.
 2. THE CATHODIC PROTECTION SYSTEM SHALL BE IN ACCORDANCE WITH THE SNWA SPECIFICATION SECTION 13980

TYPICAL TYPE 3 TEST STATION INSTALLATION AT CASINGS (5)
NOT TO SCALE

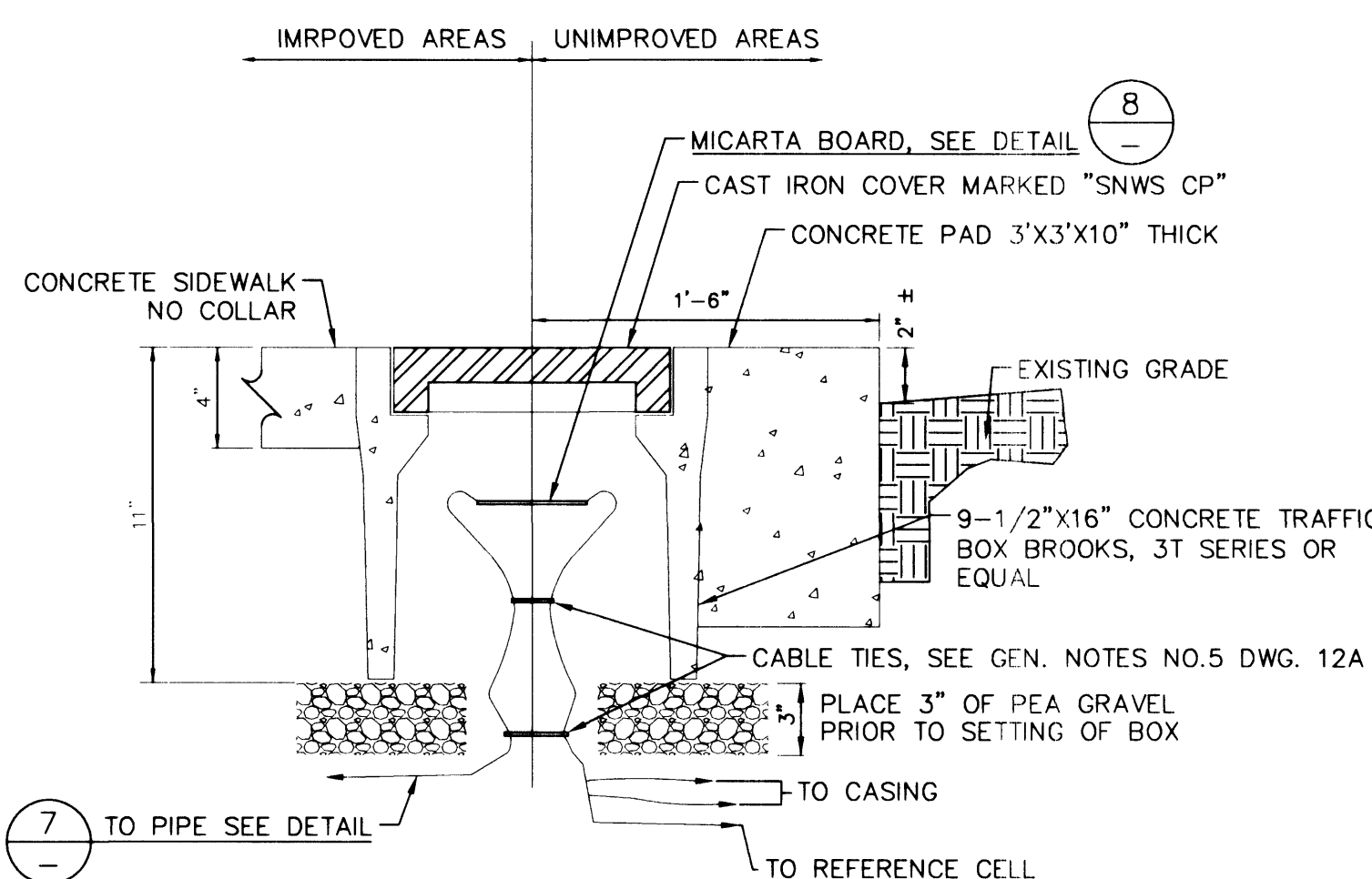


- NOTE:**
1. SPACERS AS MANUFACTURED BY CASCADE WATERWORKS MFG. OR APPROVED EQUAL
 2. STEEL CASING SHALL BE COATED PER SNWA SPECS. SECTION 09800



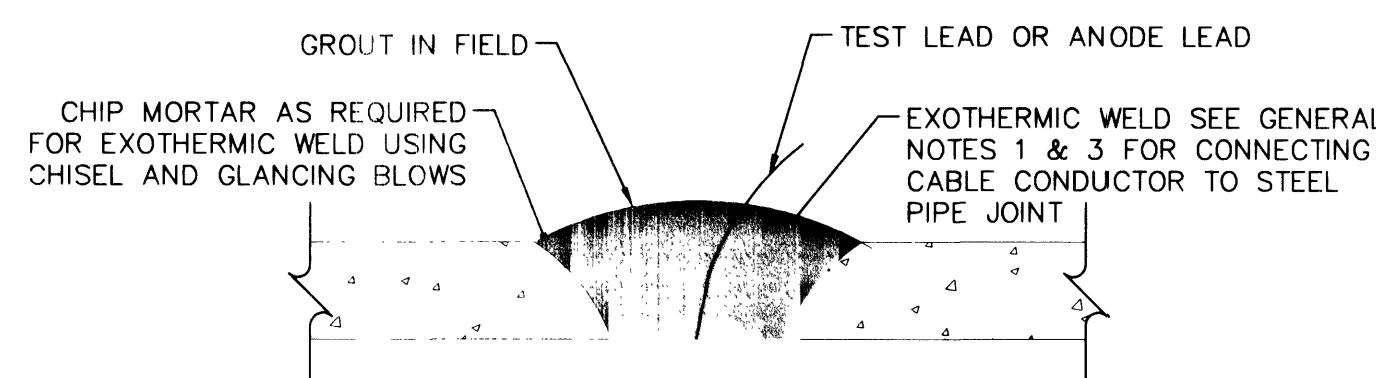
MLC CARRIER PIPE			
8" SPACER WIDTH			
PIPE SIZE	CASING ID	MINIMUM WALL THICKNESS	
36"	54"	3/4"	

CASING ASSEMBLY DETAIL (9)
NOT TO SCALE



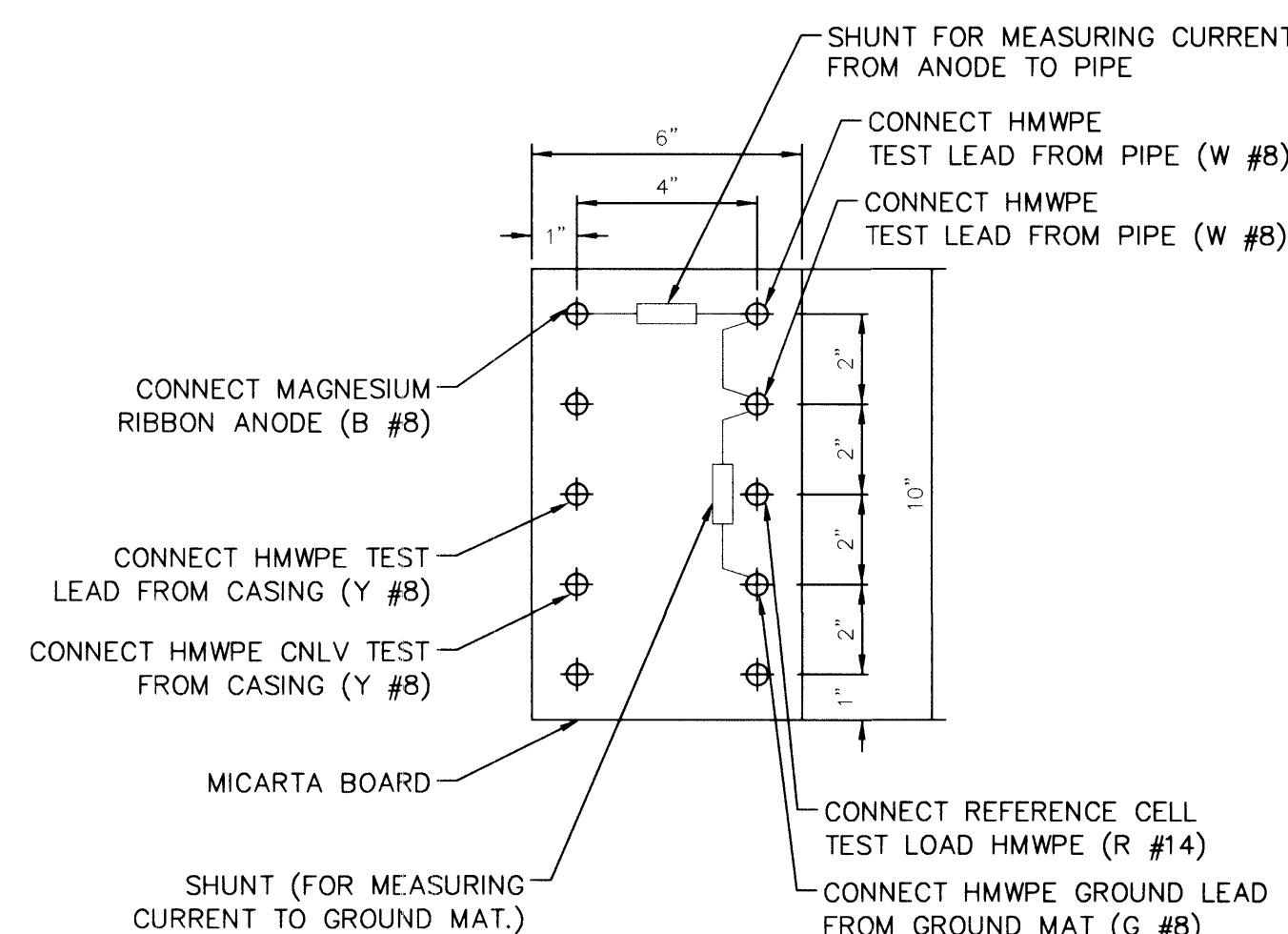
- NOTES:**
1. ALL CONCRETE COLLARS TO BE 10" THICK WHEN LOCATED IN UNPAVED OR UNIMPROVED AREAS.
 2. ALL TEST LEAS SHALL BE BURIED. DO NOT ROUTE TEST LEADS THROUGH ACCESS MANWAY OR VAULT STRUCTURES.

TYPICAL TEST BOX DETAIL (6)
NOT TO SCALE
(FOR JOINT TEST STATIONS AND JOINT BOND STATIONS)

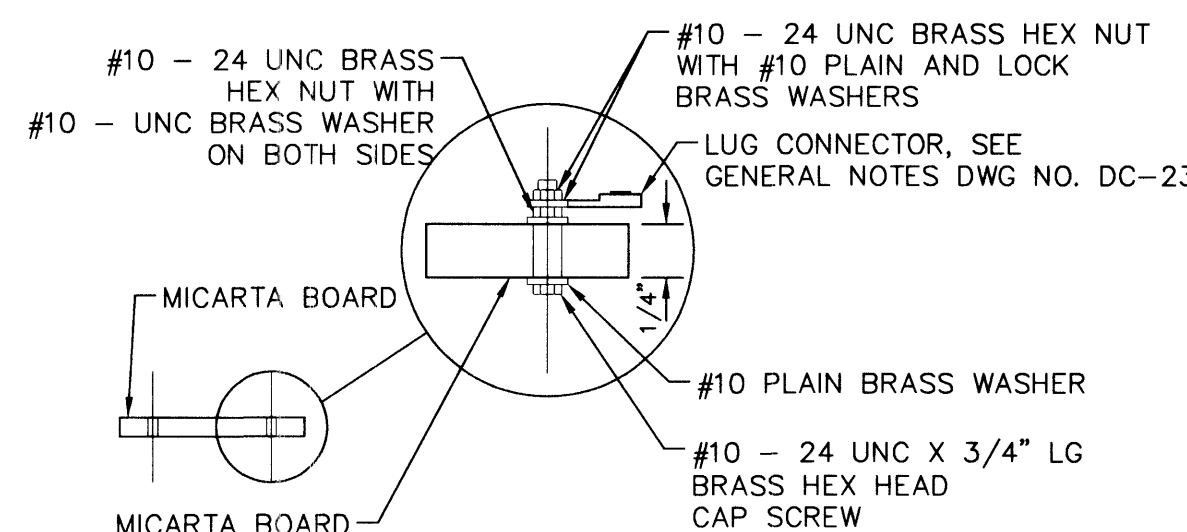


TEST LEAD OR ANODE LEAD CONNECTION TO PIPE JOINT (7)
NOT TO SCALE

NOTE:
ALL WORK ON CATHODIC PROTECTION SHALL BE IN ACCORDANCE WITH SNWA SPECS. SECTION 13680 - CATHODIC PROTECTION SYSTEM.

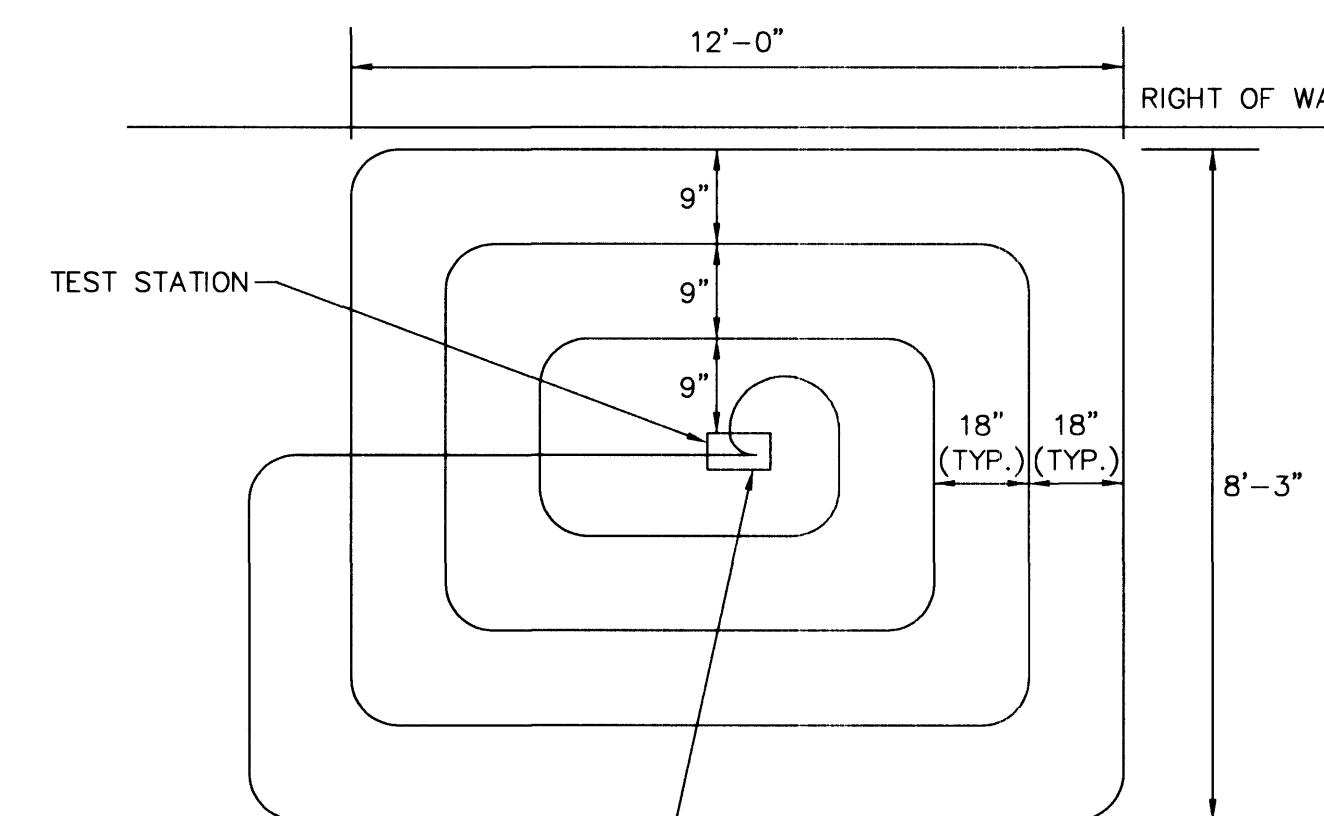


TYPICAL TEST BOARD WIRING DIAGRAM
NOT TO SCALE



TYPICAL LUG AND STUD CONNECTION

TYPICAL TEST BORE DETAILS (8)
NOT TO SCALE
(FOR JOINT TEST STATIONS AND JOINT BOND STATIONS)



- NOTE:**
1. INSTALL GROUND MAT UNDER ALL TEST STATIONS.
 2. DETAIL SHOWS GROUND MAT FOR SINGLE TEST STATION. WHERE 2 TEST STATIONS ARE INDICATED, LAYOUT IS SIMILAR.

TEST STATION GROUND MAT (10)
NOT TO SCALE

Contractor shall field locate and protect all SNWA/SNWS appurtenances including, but not limited to AV/AR, access manways and cathodic protection systems. All above ground structures and at grade structures must be adjusted to new grade at contractor's expense. Cathodic protection test stations, rectifiers and AV/AR's must be relocated to the sidewalk per SNWA standards and at the contractor's expense. Contractor to NOTIFY SOUTHERN NEVADA WATER AUTHORITY, DEVELOPMENT PLAN REVIEW, at (702) 862-3444 at least 48 hours PRIOR to construction activity.

Sharon L. Kinner 4/6/02
Southern Nevada Water Authority Date

SNWA approval is valid for one (1) year from the signature date. If construction within the easement or restricted pipe safety zone is not complete, plans must be resubmitted to SNWA for approval.

NOTE:
PIPE LENGTH IS MEASURED FROM EDGE OF JUNCTION TO EDGE OF JUNCTION.

ZINC RIBBON WITH CENTRALLY LOCATED STEEL CORE WIRE 1/2" X 9/16" CROSS SECTION NOMINAL WEIGHT 0.60 LB/FT INSTALL 18" BELOW GRADE AS SHOWN.

CONNECT ZINC RIBBONS TO 8 AWG CABLE WITH BURNDY TYPE KS CONNECTION OR EQUAL. SEAL SPLICE WITH AQUARIUM AND ELECTRICAL TAPE OR EQUAL.

NOTE:
PIPE LENGTH IS MEASURED FROM EDGE OF JUNCTION TO EDGE OF JUNCTION.

SAFETY ALERT
Call Before You Overhead
1-702-593-6111

Call before you Dig
1-800-227-2600