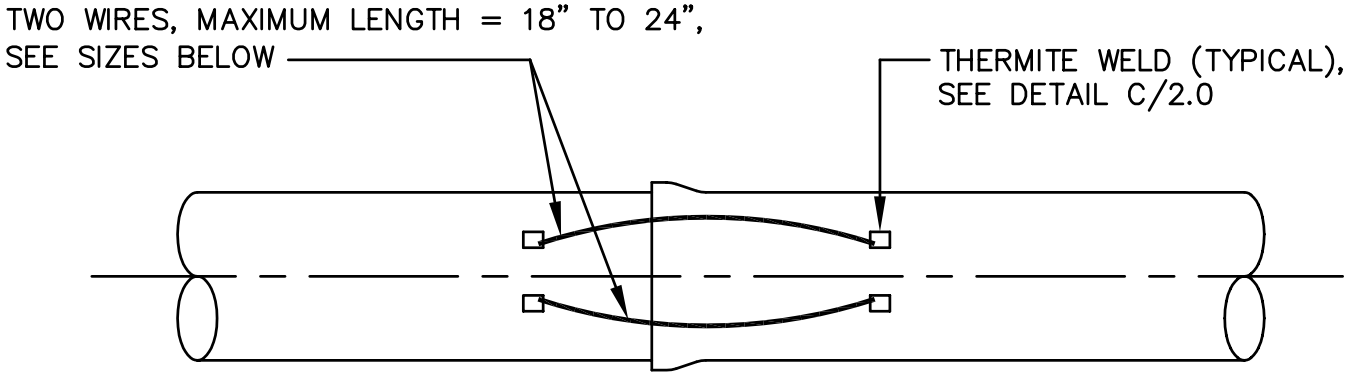
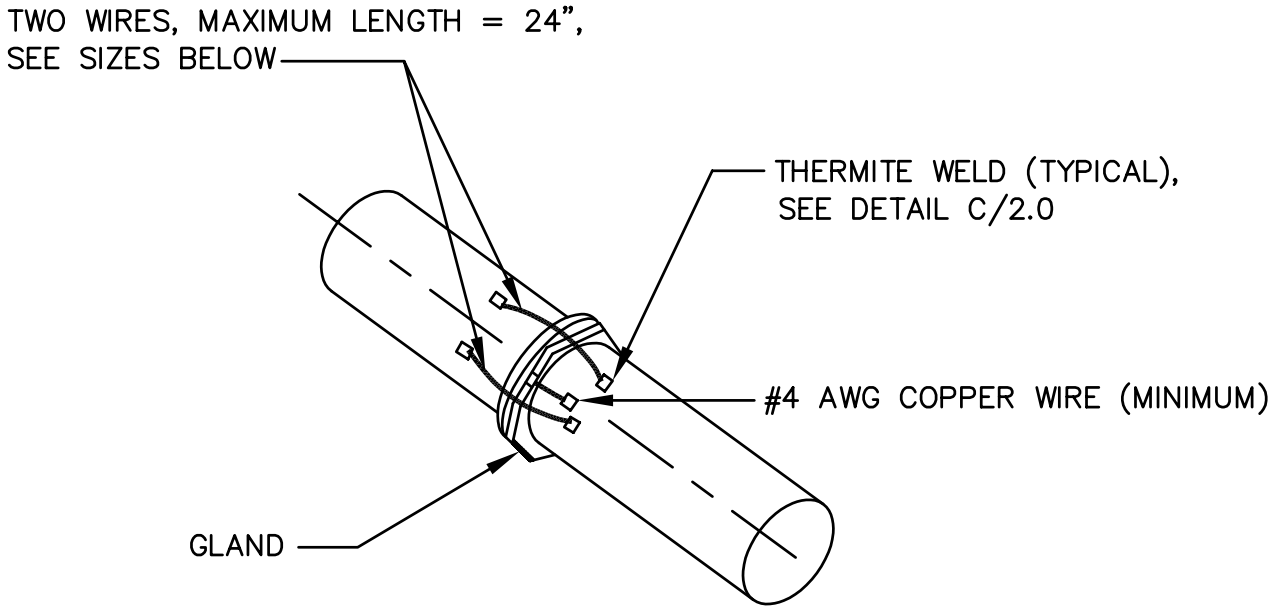
SECTION VI- CORROSION DETAILS

TABLE OF CONTENTS



PUSH-ON JOINT



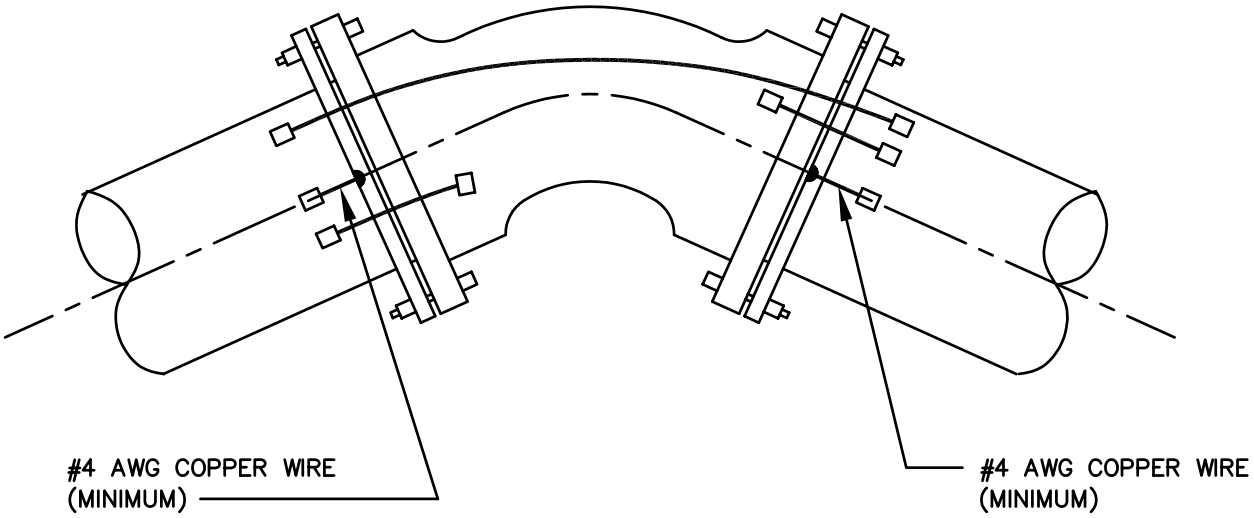
MECHANICAL JOINT

BOND WIRE SIZE	
PIPE DIAMETER	WIRE SIZE
3" THRU 18"	# 4 AWG
OVER 18"	# 2 AWG

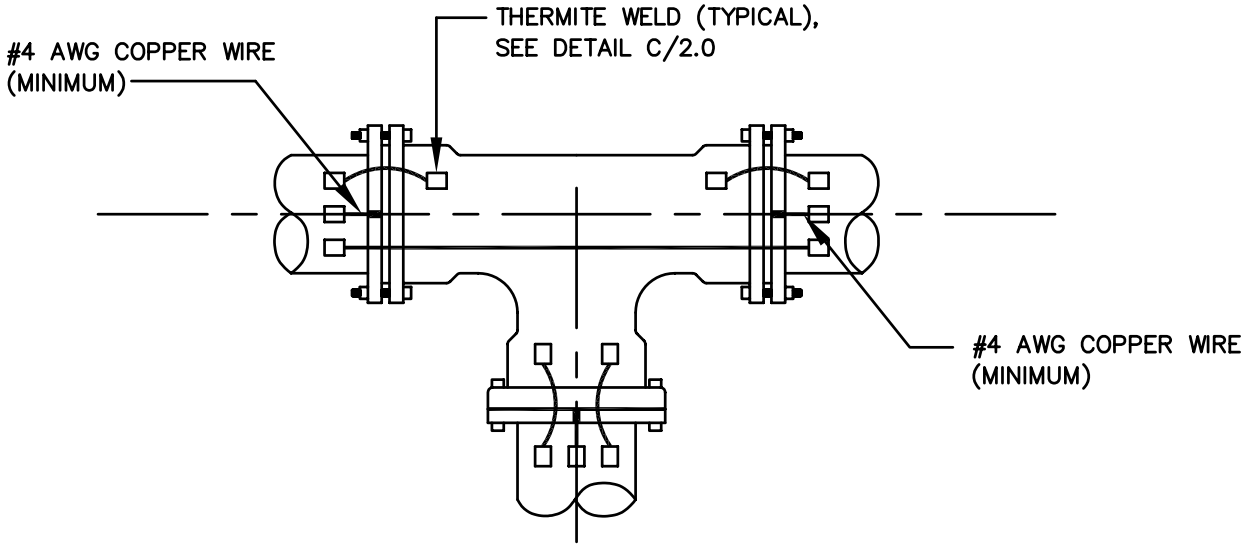
GENERAL NOTE:

1. THE BOND WIRE SHALL BE STRANDED COPPER WIRE WITH HMWPE INSULATION.

WASHINGTON SUBURBAN SANITARY COMMISSION	APPROVED: JULY 1, 2005 Chief Engineer	STANDARD DETAIL DUCTILE IRON PIPE JOINT BOND	C 1.0



MECHANICAL JOINT BEND

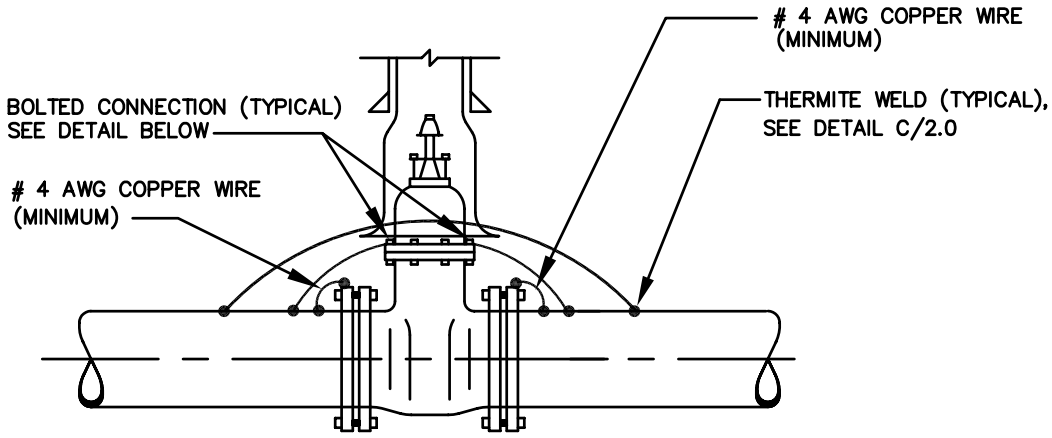


MECHANICAL JOINT TEE

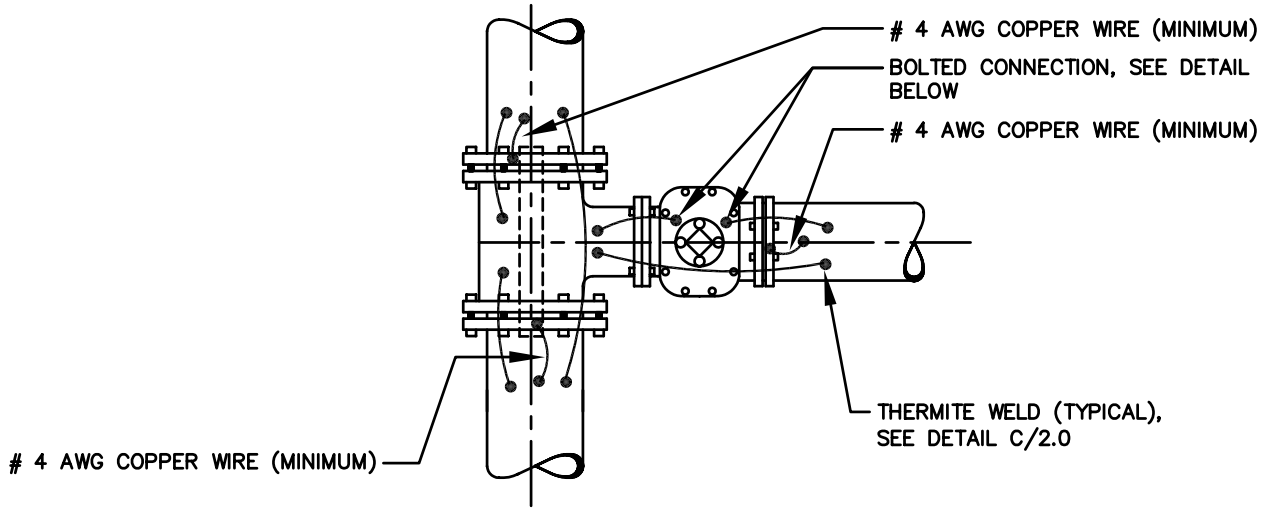
GENERAL NOTES:

1. SEE DETAIL C/1.0 FOR BOND WIRE SIZE AND INSULATION.
2. SEE DETAIL C/1.0 FOR JOINT BONDING OF PUSH-ON JOINT.

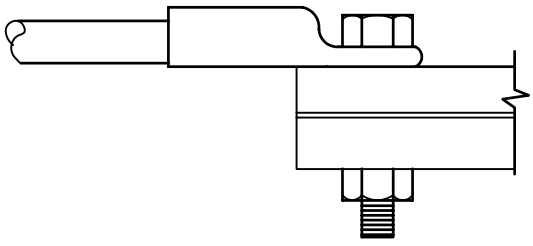
WASHINGTON SUBURBAN SANITARY COMMISSION	APPROVED: JULY 1, 2005 Chief Engineer	STANDARD DETAIL DUCTILE IRON PIPE BONDING OF FITTING JOINTS	C 1.1



IN LINE VALVE BONDING



TEE OR TAPPING SLEEVE AND VALVE BONDING

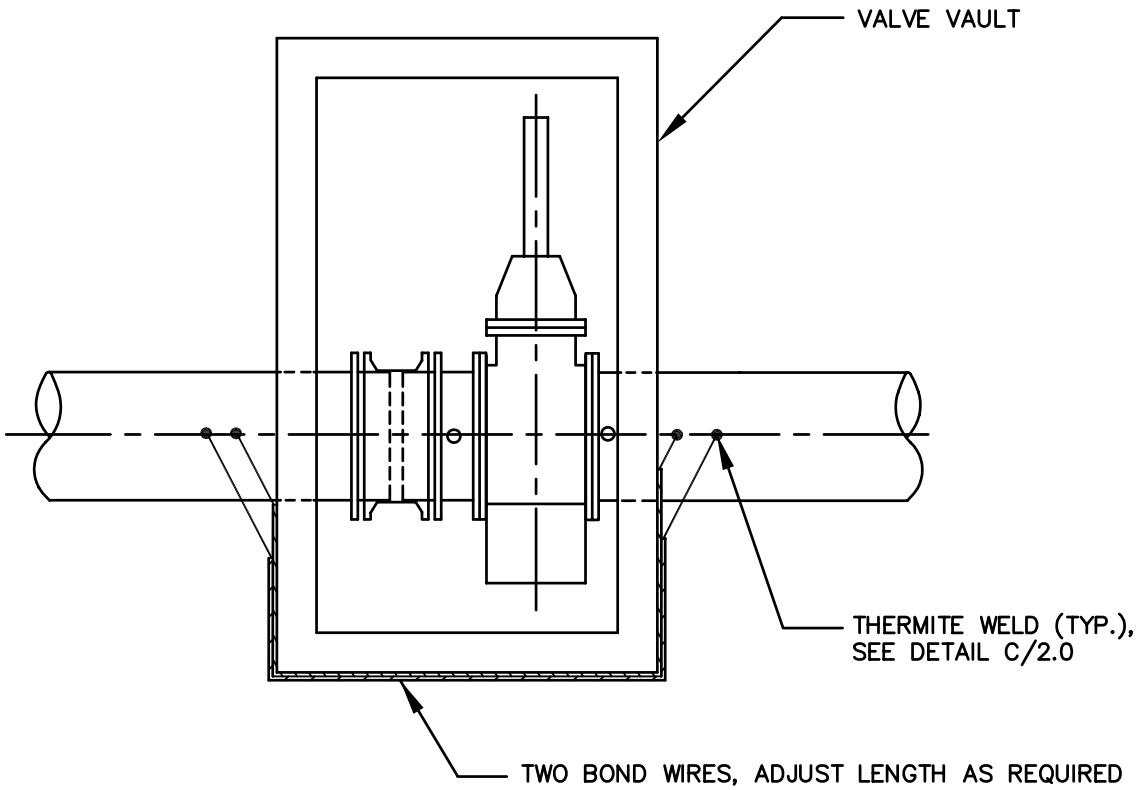


BOLTED CONNECTION

GENERAL NOTES:

1. SEE DETAIL C/1.0 FOR BOND WIRE SIZE AND INSULATION.
2. CLEAN VALVE TO BRIGHT METAL AT POINT OF BOLTED CONNECTION.
3. SEE DETAIL C/1.0 FOR JOINT BONDING OF PUSH-ON JOINTS.

WASHINGTON SUBURBAN SANITARY COMMISSION	APPROVED: JULY 1, 2005 Chief Engineer	STANDARD DETAIL DUCTILE IRON MECHANICAL JOINT VALVE BONDING	C 1.2

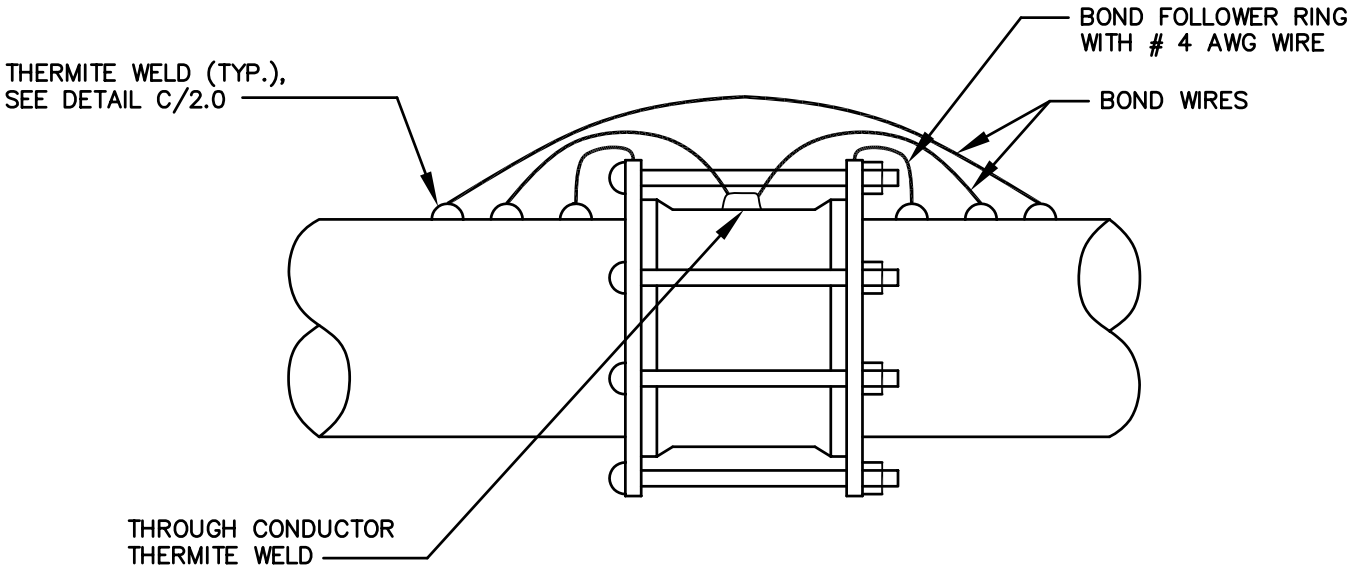


PLAN VIEW
NO SCALE

GENERAL NOTES:

1. SEE DETAIL C/1.0 FOR BOND WIRE SIZE AND INSULATION.
2. PROVIDE SLACK IN WIRES AND FASTEN TO VAULT TO PROTECT WIRES FROM DAMAGE.

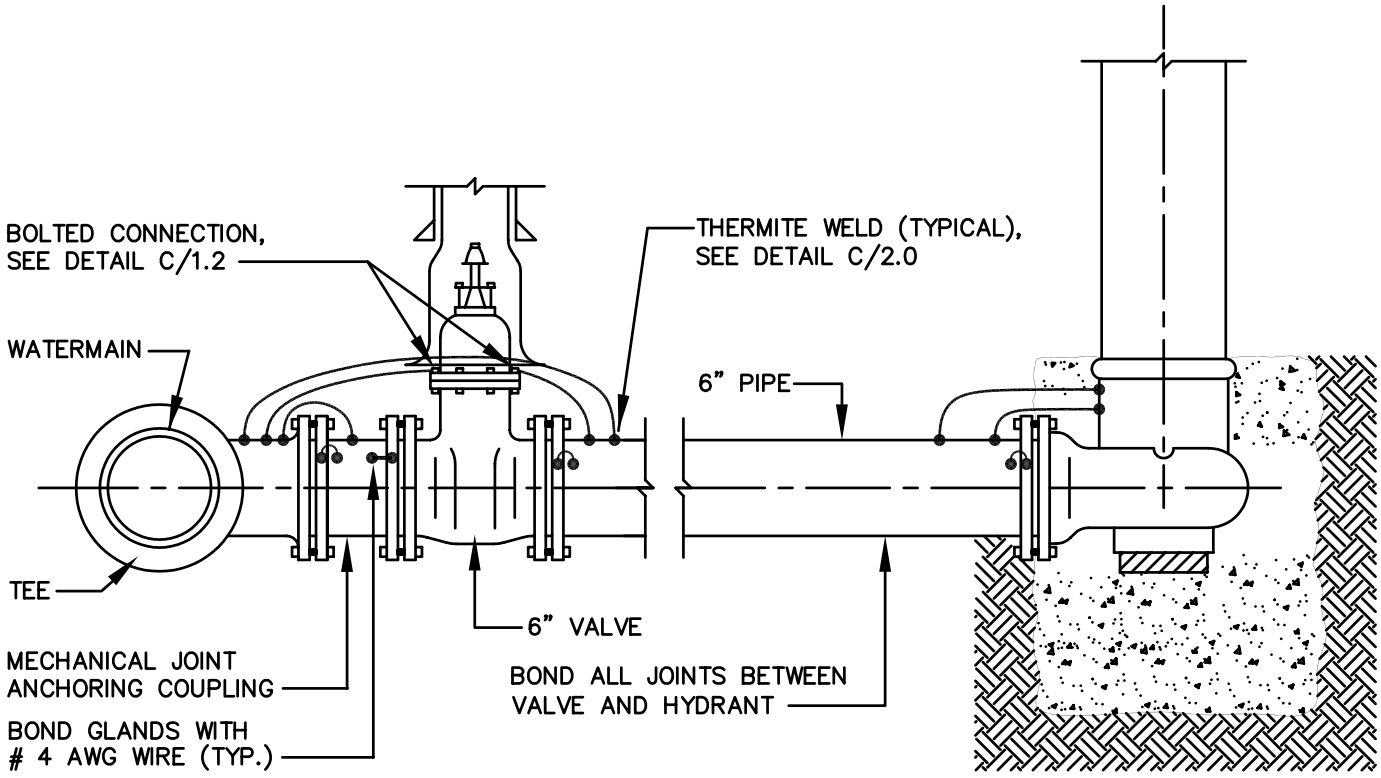
WASHINGTON SUBURBAN SANITARY COMMISSION	APPROVED: JULY 1, 2005 Chief Engineer	STANDARD DETAIL DUCTILE IRON PIPE BONDING AROUND VALVE VAULT	C 1.3

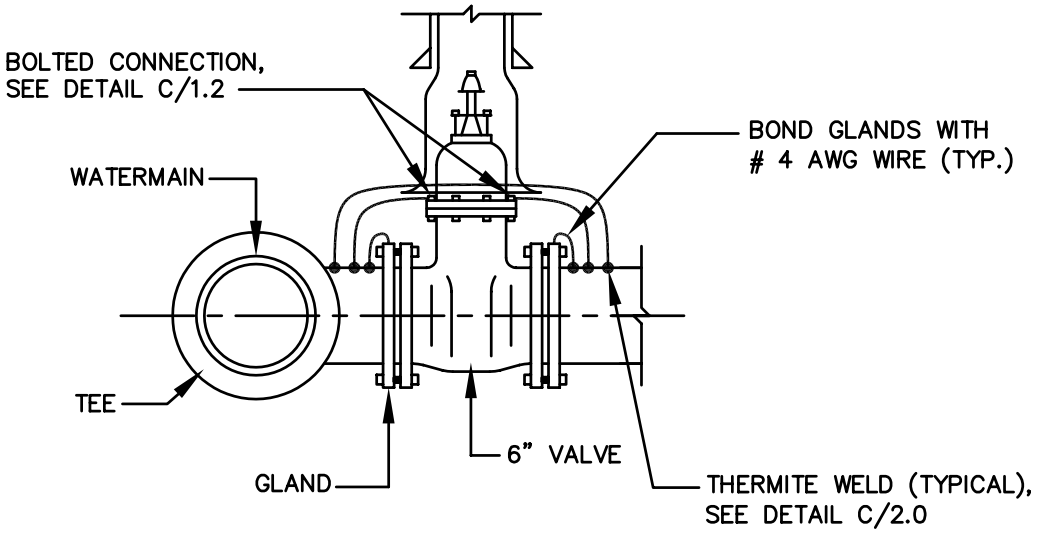


GENERAL NOTE:

1. SEE DETAIL C/1.0 FOR BOND WIRE SIZE AND INSULATION.

WASHINGTON SUBURBAN SANITARY COMMISSION	APPROVED: JULY 1, 2005 Chief Engineer	STANDARD DETAIL MECHANICAL COUPLING JOINT BOND	C 1.4



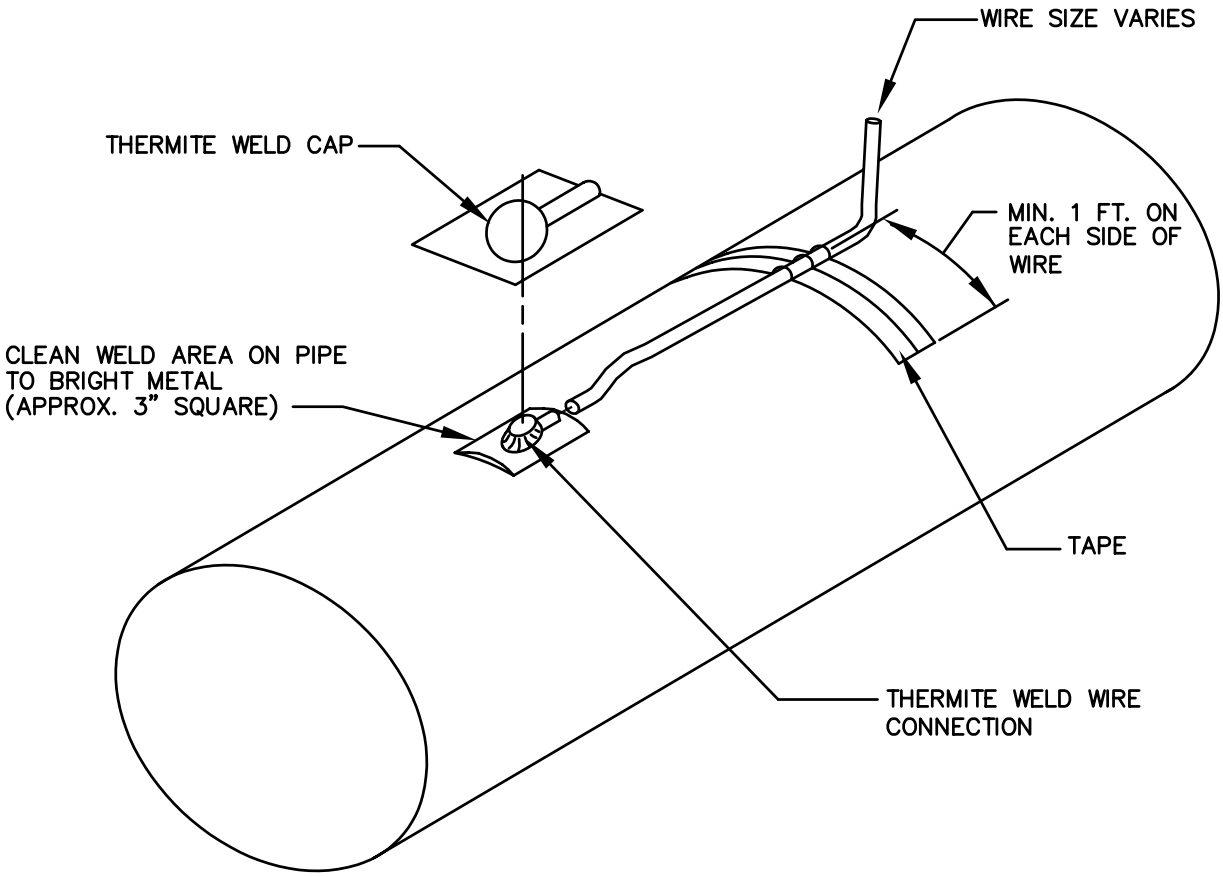


OPTIONAL ANCHORING TEE

GENERAL NOTES:

1. SEE DETAIL C/1.0 FOR BOND WIRE SIZE AND INSULATION.
2. SEE DETAIL C/1.0 FOR JOINT BONDING OF PUSH-ON JOINTS.

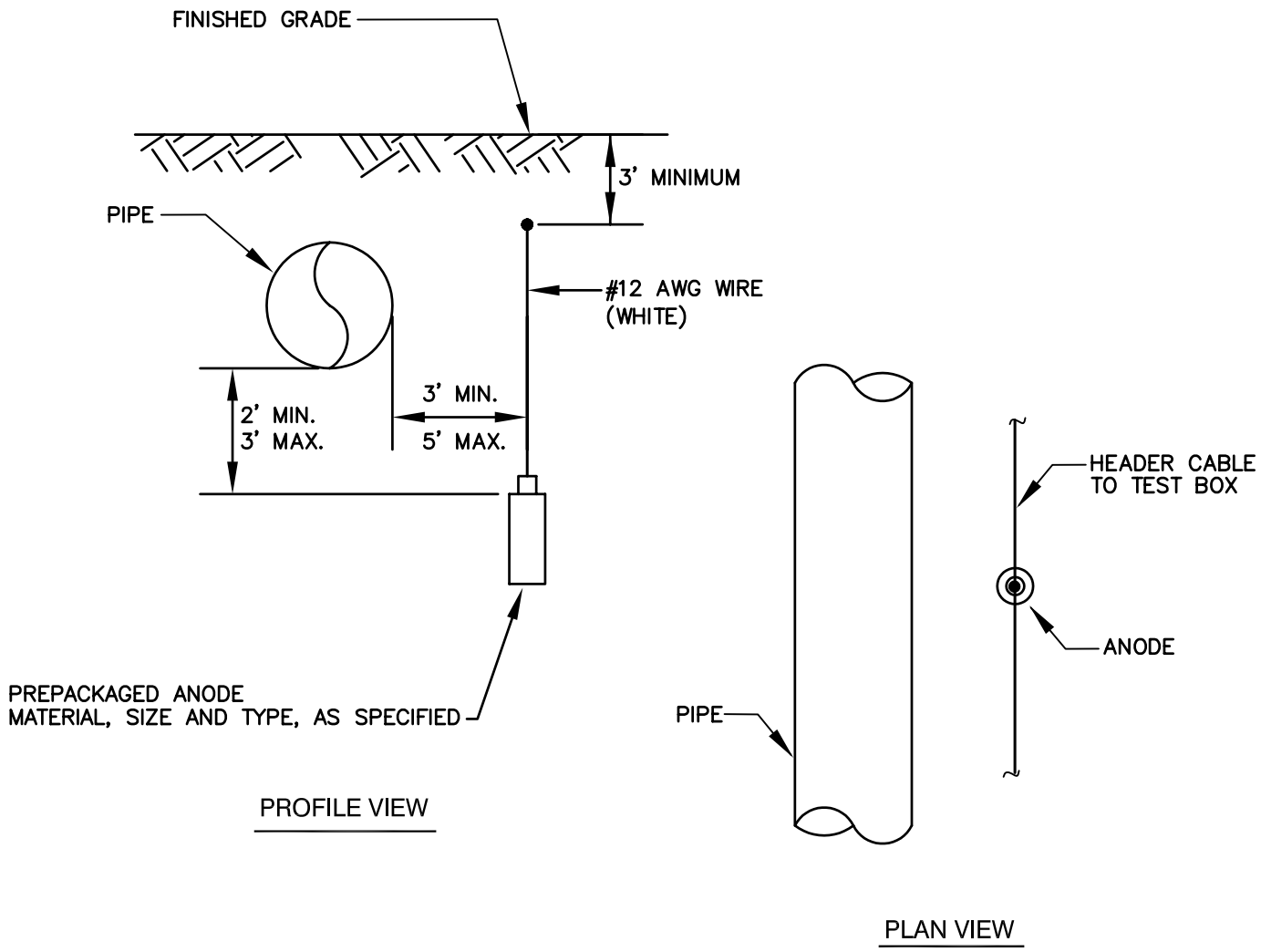
WASHINGTON SUBURBAN SANITARY COMMISSION	APPROVED: JULY 1, 2005 Chief Engineer	STANDARD DETAIL FIRE HYDRANT BONDING	C 1.6



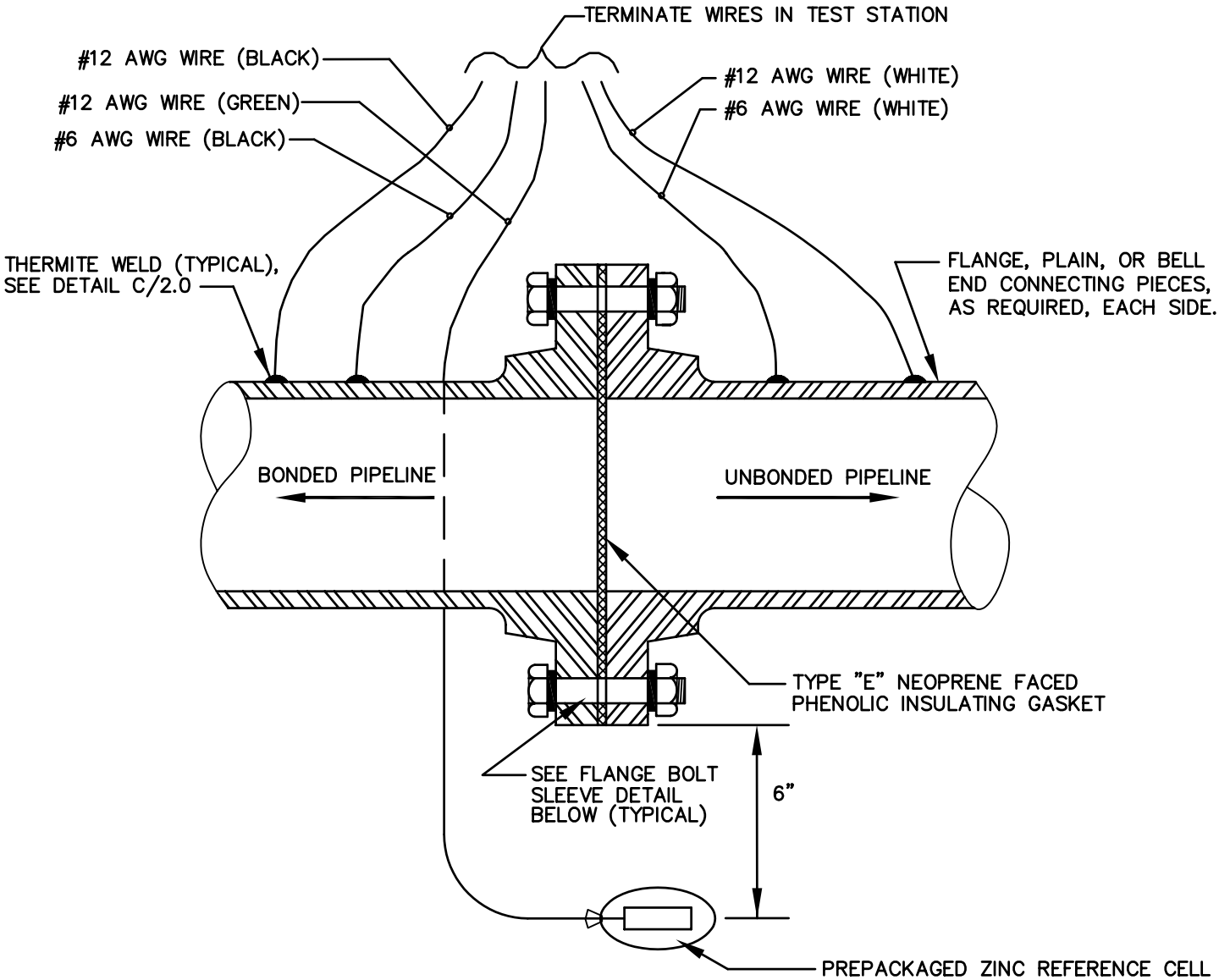
GENERAL NOTES:

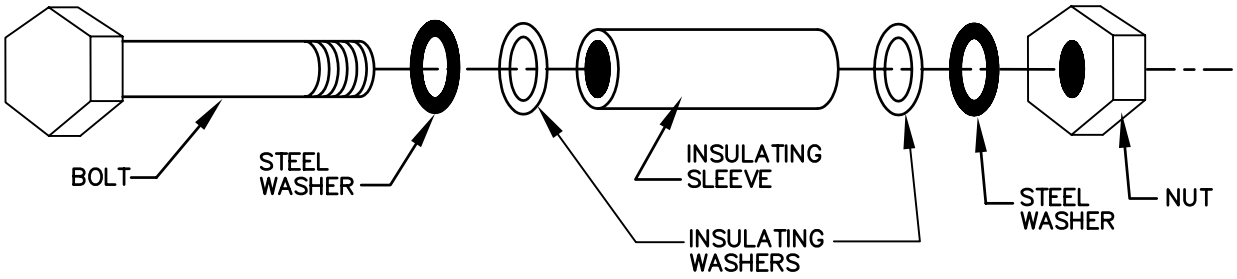
1. FOR DUCTILE IRON, CAST IRON, OR STEEL PIPE, USE CHARGE AND SIZE AS REQUIRED.
2. A COPPER SLEEVE IS REQUIRED FOR THERMITE WELD WIRE CONNECTIONS USING #12 AWG WIRE.
3. SECURE WIRE TO PIPE WITH TAPE OR OTHER APPROVED METHOD WITHOUT DAMAGING PIPE COATING.
4. COAT ANY EXPOSED BARE WELD AREA. FILL RECESS IN THERMITE WELD CAP AND APPLY CAP TO WELD.

WASHINGTON SUBURBAN SANITARY COMMISSION	APPROVED: JULY 1, 2005 Chief Engineer	STANDARD DETAIL THERMITE WELD WIRE CONNECTION	C 2.0



WASHINGTON SUBURBAN SANITARY COMMISSION	APPROVED: JULY 1, 2005 Chief Engineer	STANDARD DETAIL SACRIFICIAL ANODE INSTALLATION	C 2.2





FLANGE BOLT SLEEVE DETAIL

GENERAL NOTES:

1. THE TEST LEAD WIRES SHALL BE STRANDED COPPER WIRE WITH TW, THW, OR THWN INSULATION. WIRE SIZE AND COLOR SHALL BE AS SHOWN.
2. AFTER INSTALLATION AND ASSEMBLY, TEST INSULATING JOINT.

WASHINGTON SUBURBAN SANITARY COMMISSION	APPROVED: JULY 1, 2005 Chief Engineer	STANDARD DETAIL INSULATED FLANGE JOINT DETAIL	C 3.0

WASHINGTON SUBURBAN SANITARY COMMISSION

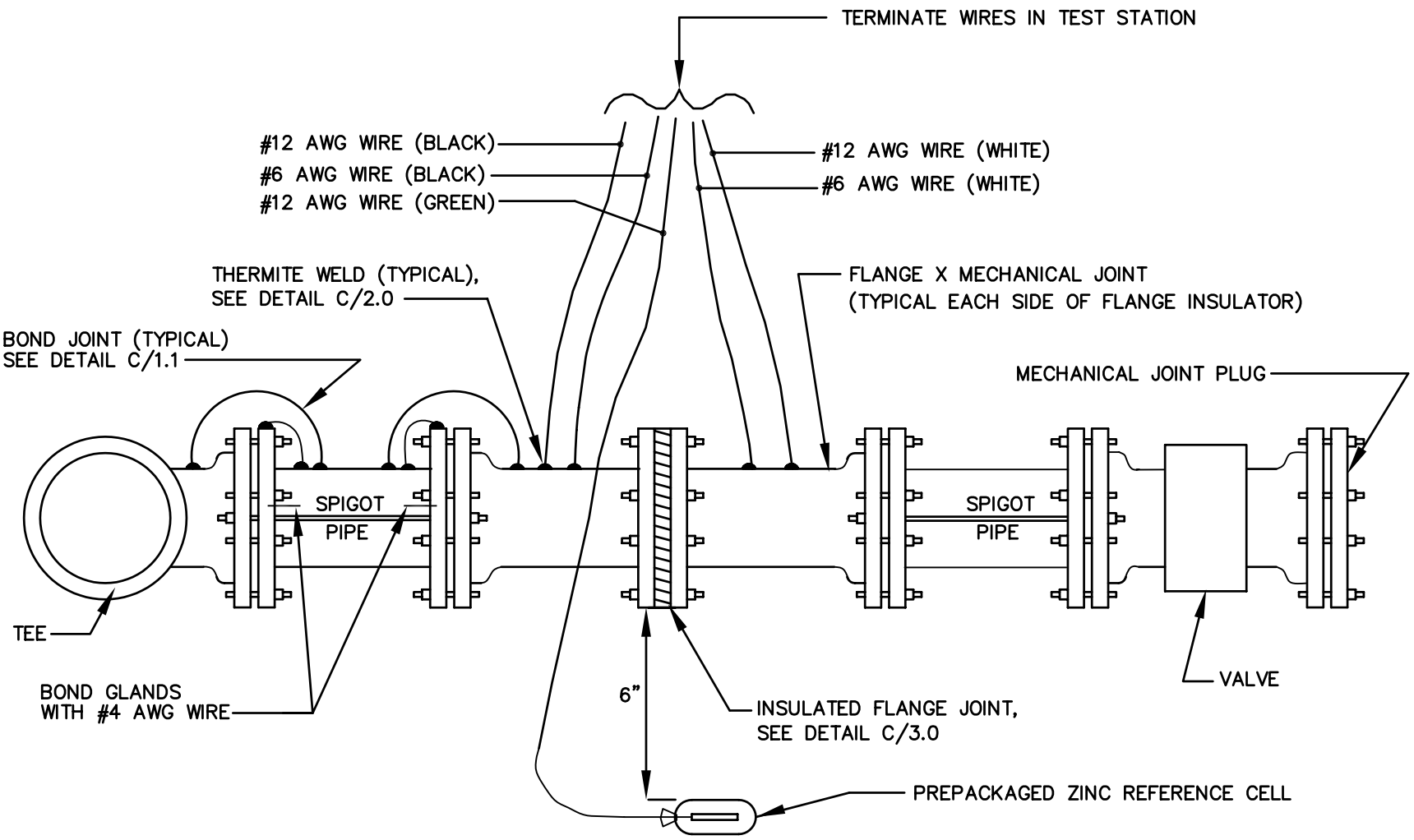
APPROVED: JULY 1, 2005

Chief Engineer

STANDARD DETAIL

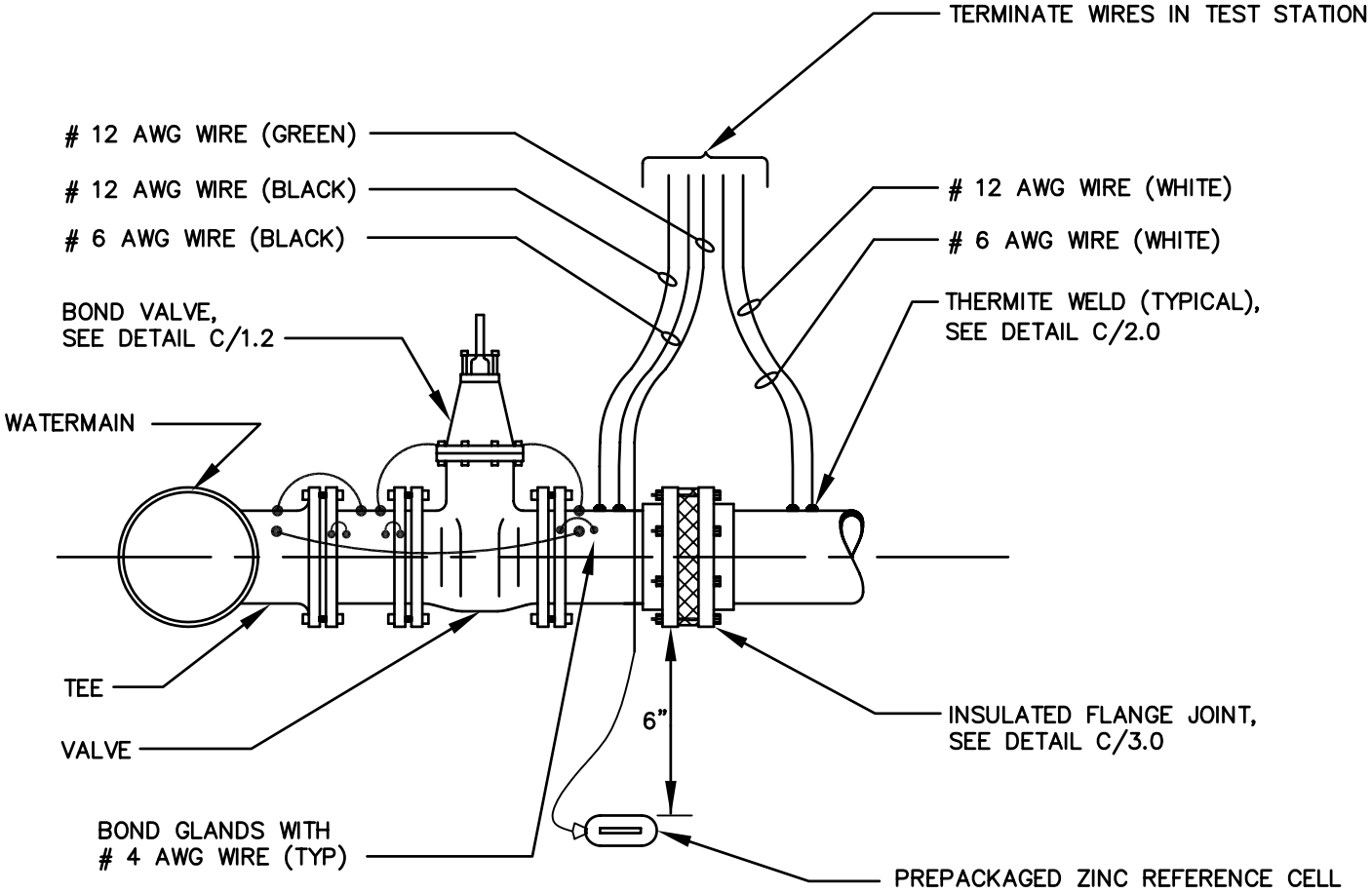
VALVE TO MAIN INSULATED FLANGE JOINT (RESTRAINED)

C/3.1



GENERAL NOTES:

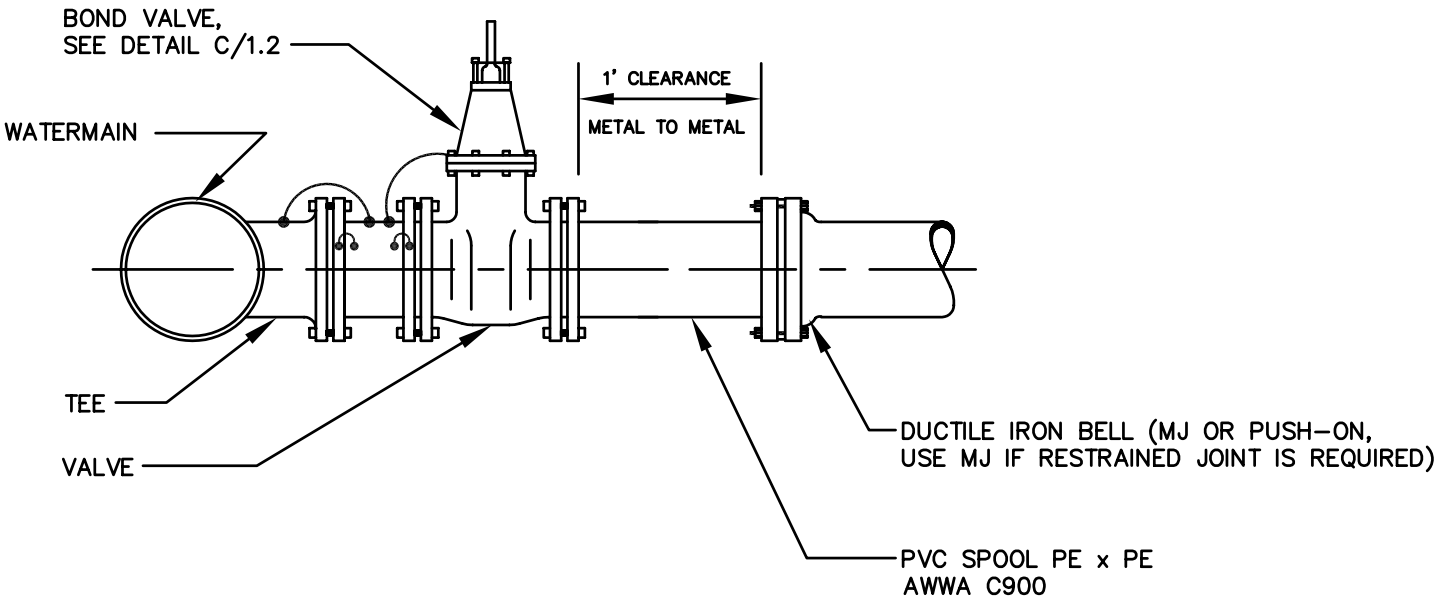
1. SEE DETAIL B/2.0 FOR DETAILS ON STRAPPING JOINTS.
2. SEE DETAIL C/1.0 FOR BOND WIRE SIZE AND INSULATION REQUIREMENTS.
3. FOR TEST LEAD WIRE REQUIREMENTS, SEE DETAIL C/3.0 AND NOTE 1.



GENERAL NOTES:

1. SEE DETAIL C/1.0 FOR BOND WIRE SIZE AND INSULATION REQUIREMENTS.
2. FOR TEST LEAD WIRE REQUIREMENTS, SEE DETAIL C/3.0 AND NOTE 1.

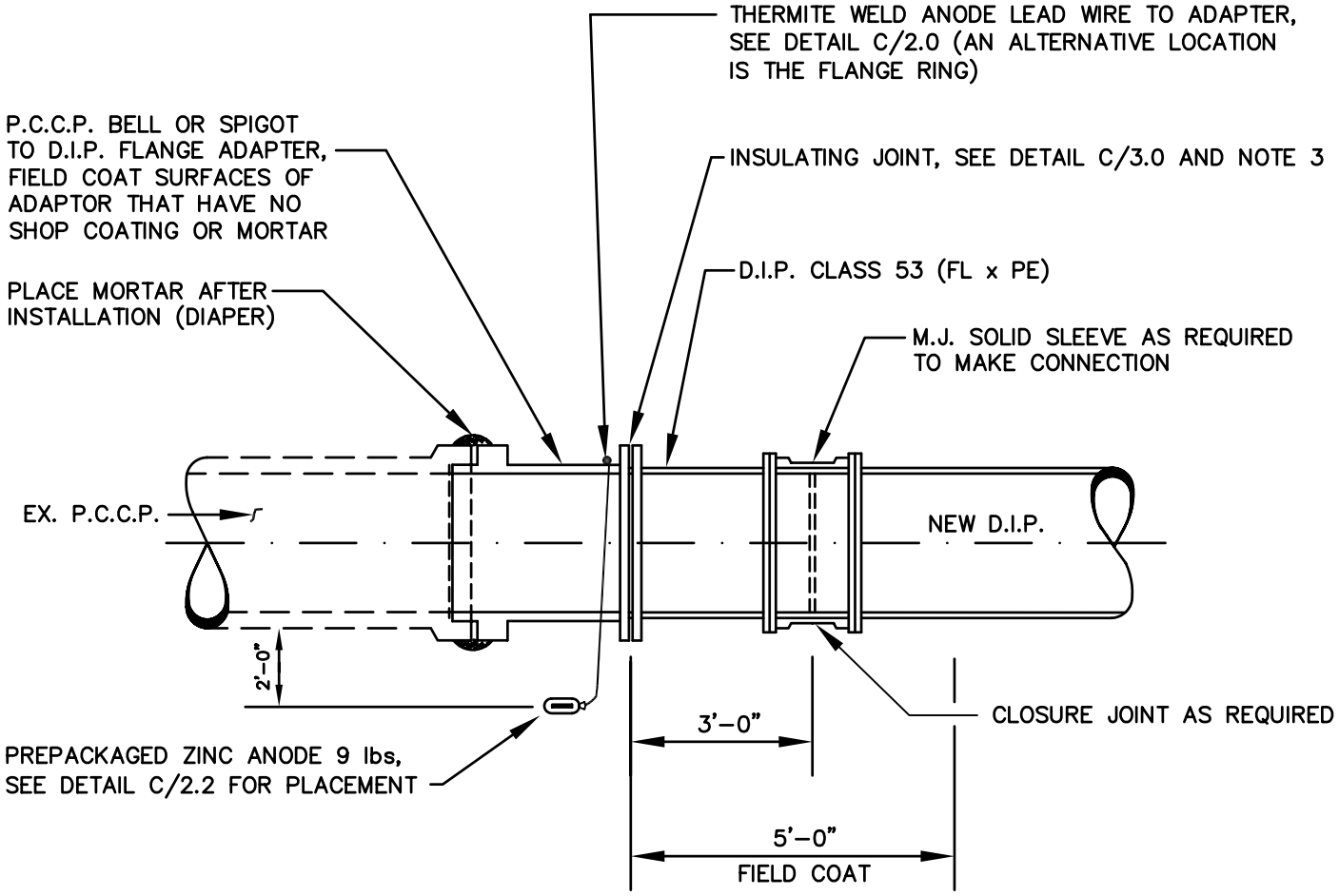
WASHINGTON SUBURBAN SANITARY COMMISSION	APPROVED: JULY 1, 2005 Chief Engineer	STANDARD DETAIL VALVE TO MAIN INSULATED FLANGE JOINT (UNRESTRAINED)	C 3.2



GENERAL NOTES:

1. SEE DETAIL C/1.0 FOR BOND WIRE SIZE AND INSULATION.
2. RESTRAIN VALVE TO MAINLINE TEE. SEE BLOCKING NOTES ON DRAWINGS FOR OTHER BLOCKING OR RESTRAINED JOINT REQUIREMENTS.

WASHINGTON SUBURBAN SANITARY COMMISSION	APPROVED: JULY 1, 2005 Chief Engineer	STANDARD DETAIL PVC INSULATING SPOOL FOR BRANCH LINES	C 3.2a

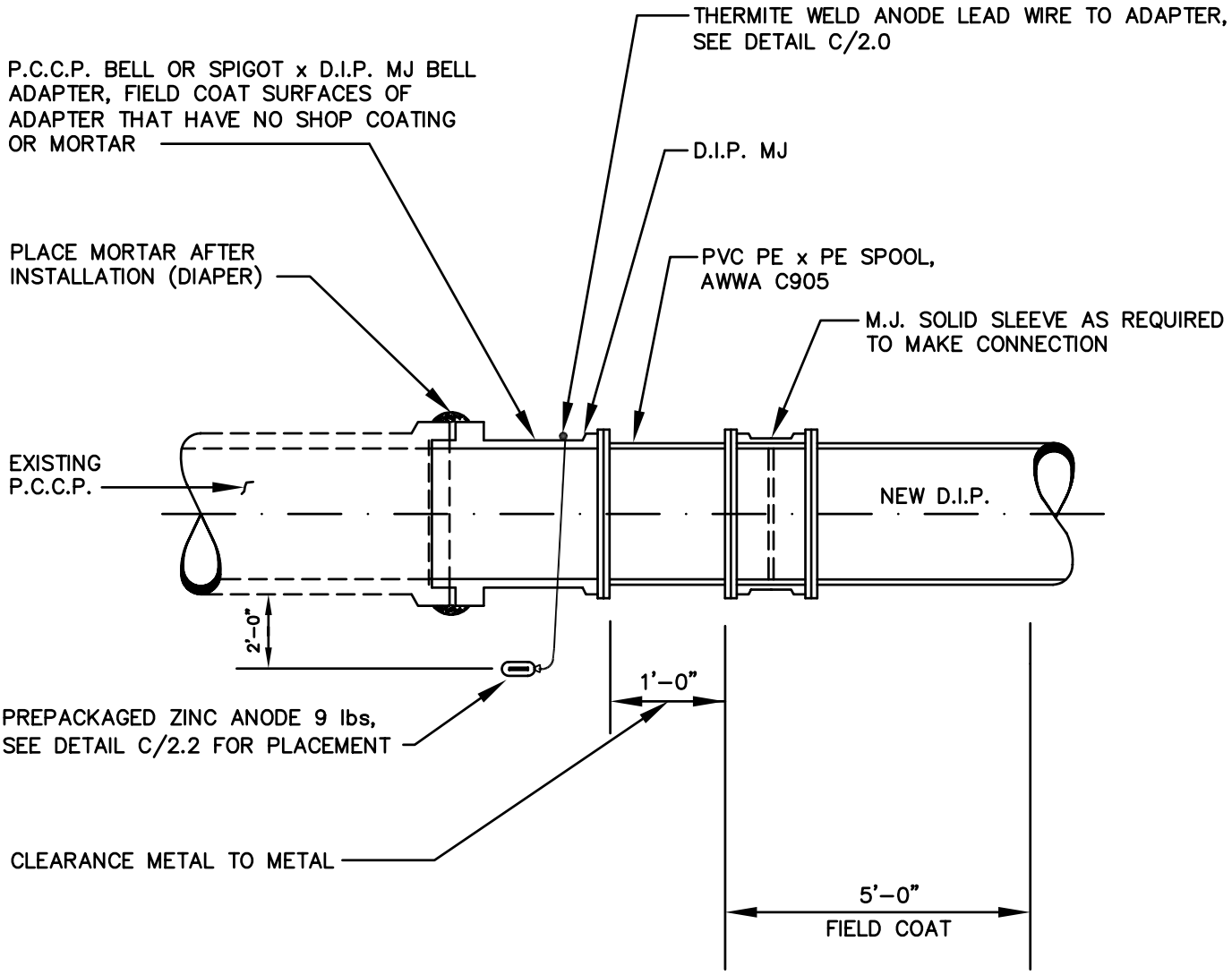


PCCP x DIP TIE-IN DETAIL

GENERAL NOTES:

1. CONTRACTOR SHALL VERIFY ELECTRICAL ISOLATION OF INSULATING JOINT BEFORE COATING AND BURIAL.
2. DO NOT INSTALL TEST LEAD WIRES AND REFERENCE CELL.
3. APPLICABLE MANUFACTURERS' RECOMMENDATIONS SHALL BE FOLLOWED FOR INSTALLATION OF ADAPTER AND INSULATING FLANGE ASSEMBLIES.

WASHINGTON SUBURBAN SANITARY COMMISSION	APPROVED: JULY 1, 2005 Chief Engineer	STANDARD DETAIL PCCP x DIP TIE - IN DETAIL WITH INSULATING JOINT	C 3.3

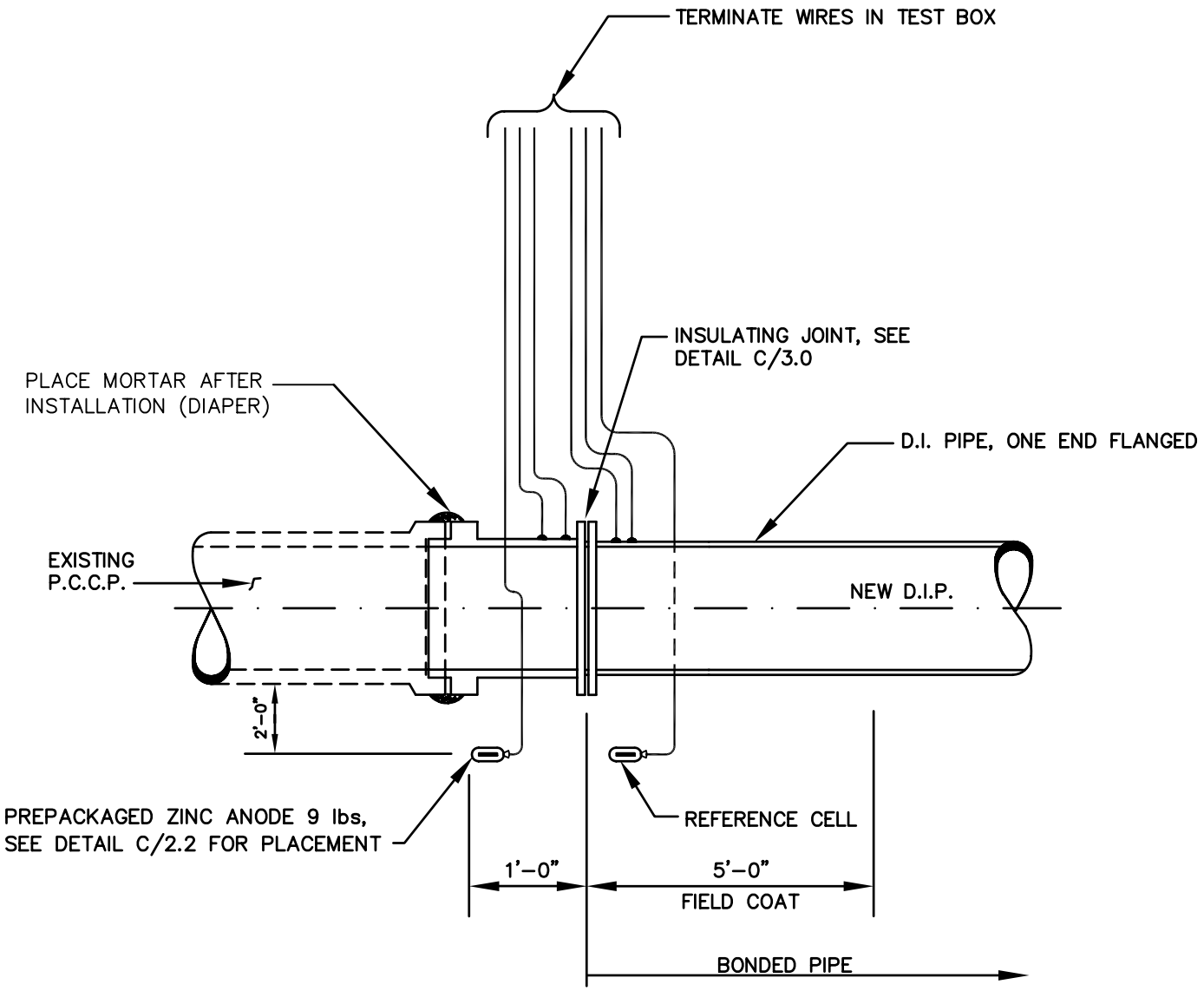


PCCP x DIP TIE-IN DETAIL

GENERAL NOTES:

1. CONTRACTOR SHALL VERIFY ELECTRICAL ISOLATION OF INSULATING JOINT BEFORE COATING AND BURIAL.
2. FIELD COAT PIPE AND ADAPTER AS SHOWN.
3. APPLICABLE MANUFACTURERS' RECOMMENDATIONS SHALL BE FOLLOWED FOR INSTALLATION OF ADAPTER.

WASHINGTON SUBURBAN SANITARY COMMISSION	APPROVED: JULY 1, 2005 Chief Engineer	STANDARD DETAIL PCCP x DIP TIE - IN DETAIL WITH PVC INSULATING SPOOL	C 3.3a

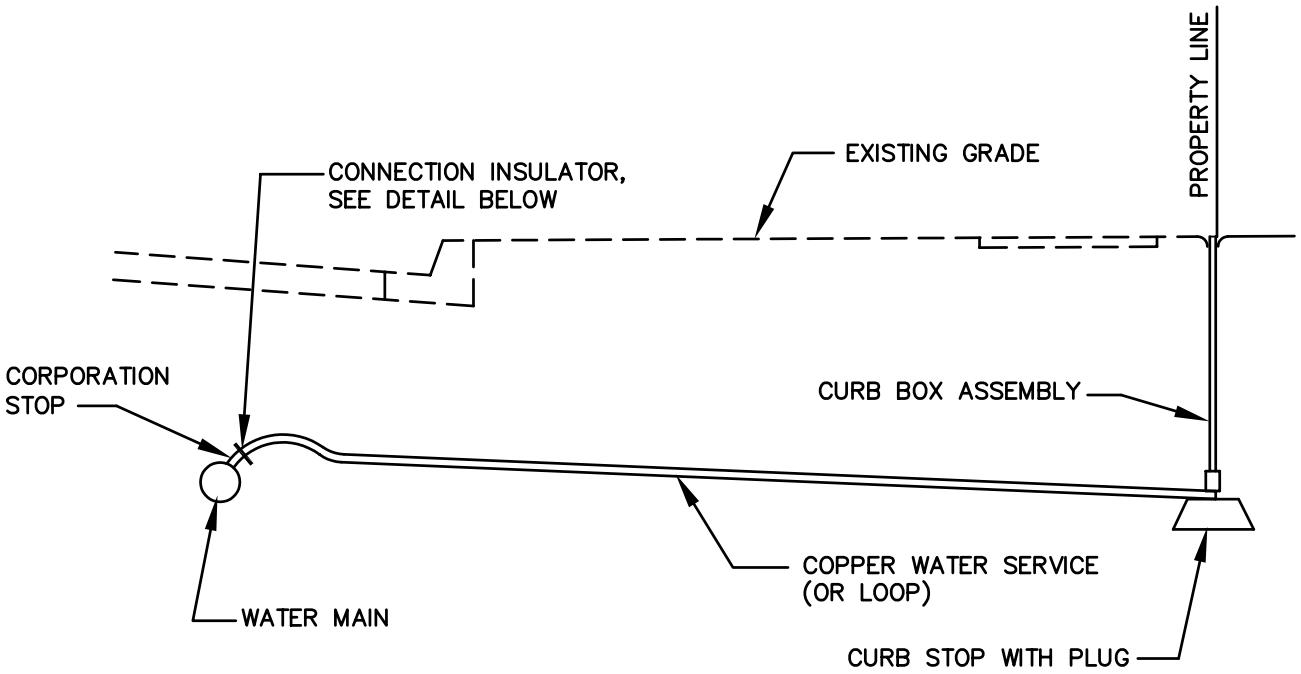


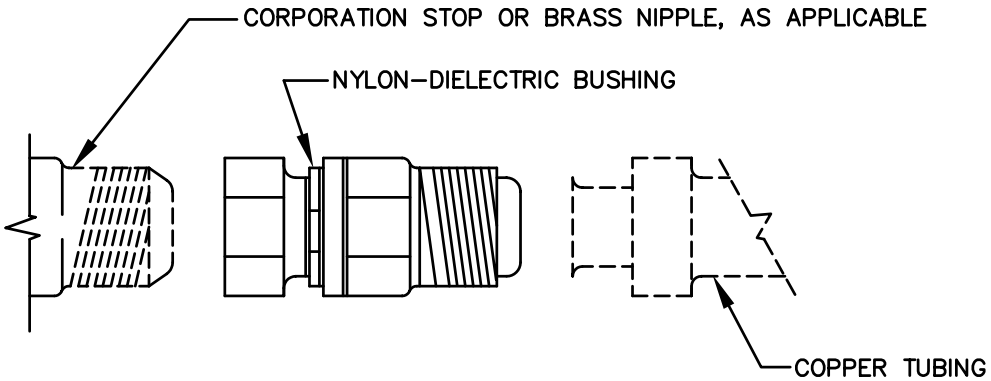
PCCP x DIP TIE-IN DETAIL

NOTES:

1. FOR PCCP x DIP TIE-IN FITTINGS AND ASSEMBLY, SEE DETAIL C/3.3.
2. CONTRACTOR SHALL VERIFY ELECTRICAL ISOLATION OF INSULATING JOINT BEFORE COATING AND BURIAL.
3. FIELD COATING LIMITS SHALL BE AS SHOWN, UNLESS NOTED OTHERWISE IN CONTRACT DOCUMENTS.
4. APPLICABLE MANUFACTURERS' RECOMMENDATIONS SHALL BE FOLLOWED FOR INSTALLATION OF ADAPTER AND INSULATING FLANGE ASSEMBLIES.

WASHINGTON SUBURBAN SANITARY COMMISSION	APPROVED: JULY 1, 2005 Chief Engineer	STANDARD DETAIL PCCP x DIP TIE - IN DETAIL WITH INSULATING JOINT AND TEST LEAD WIRES	C 3.4



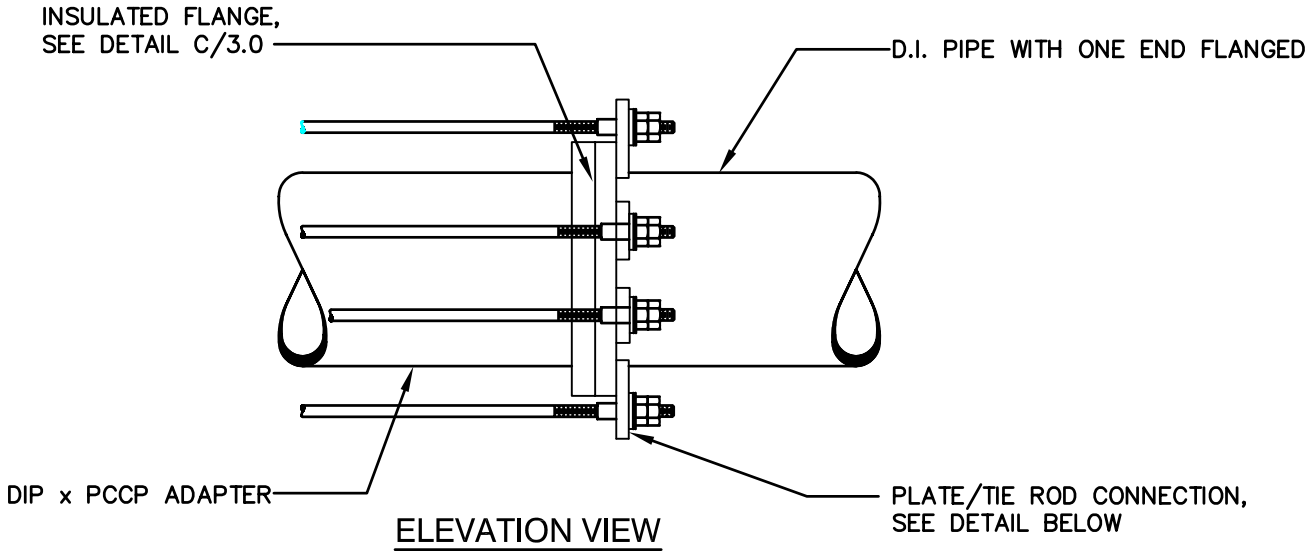


SERVICE INSULATOR

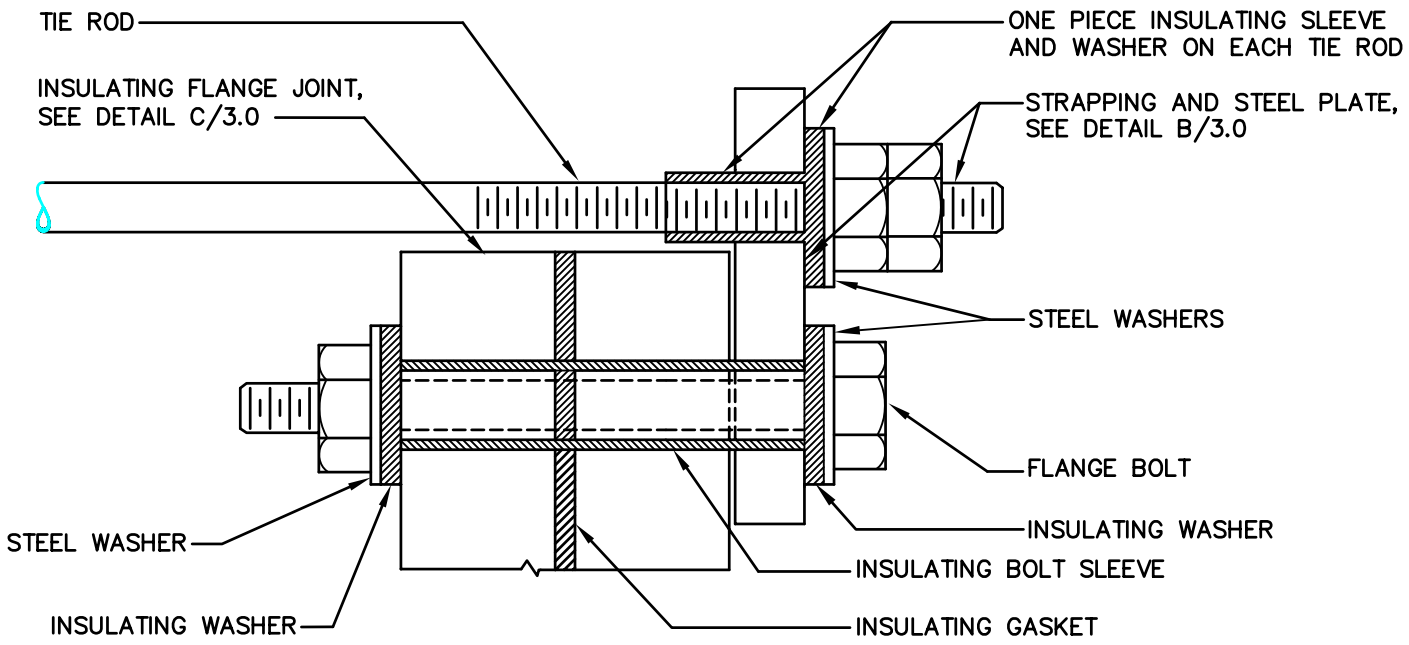
GENERAL NOTES:

1. USE INSULATORS ON 1", 1 1/2", AND 2" COPPER PIPE HOUSE CONNECTIONS.
2. USE INSULATOR ON COPPER PIPE TAPPED ON CAST IRON OR DUCTILE IRON PIPES, PLUGS, OR CAPS (AS SHOWN ON DETAIL B/1.9).

WASHINGTON SUBURBAN SANITARY COMMISSION	APPROVED: JULY 1, 2005 Chief Engineer	STANDARD DETAIL INSULATED JOINT FOR COPPER PIPE	C 3.5



ELEVATION VIEW



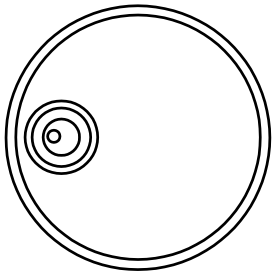
INSULATED FLANGED JOINT DETAIL

GENERAL NOTES:

1. SEE DETAIL B/3.1b FOR THRUST BLOCK AND HARNESSED JOINT DETAIL.
2. SEE DETAIL C/3.0 FOR INSULATING JOINT DETAILS.
3. FOR ANODE AND TEST LEAD WIRES, SEE DETAILS C/3.3 OR C/3.4 AS APPROPRIATE.
4. ALL NUTS AND BOLTS SHALL BE TORQUED IN ACCORDANCE WITH SPECIFICATIONS.

WASHINGTON SUBURBAN SANITARY COMMISSION	APPROVED: JULY 1, 2005 Chief Engineer	STANDARD DETAIL INSULATED TIE RODS ON INSULATED FLANGE JOINT	C 3.6

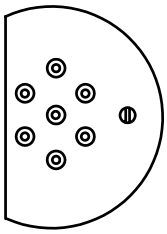
COVER

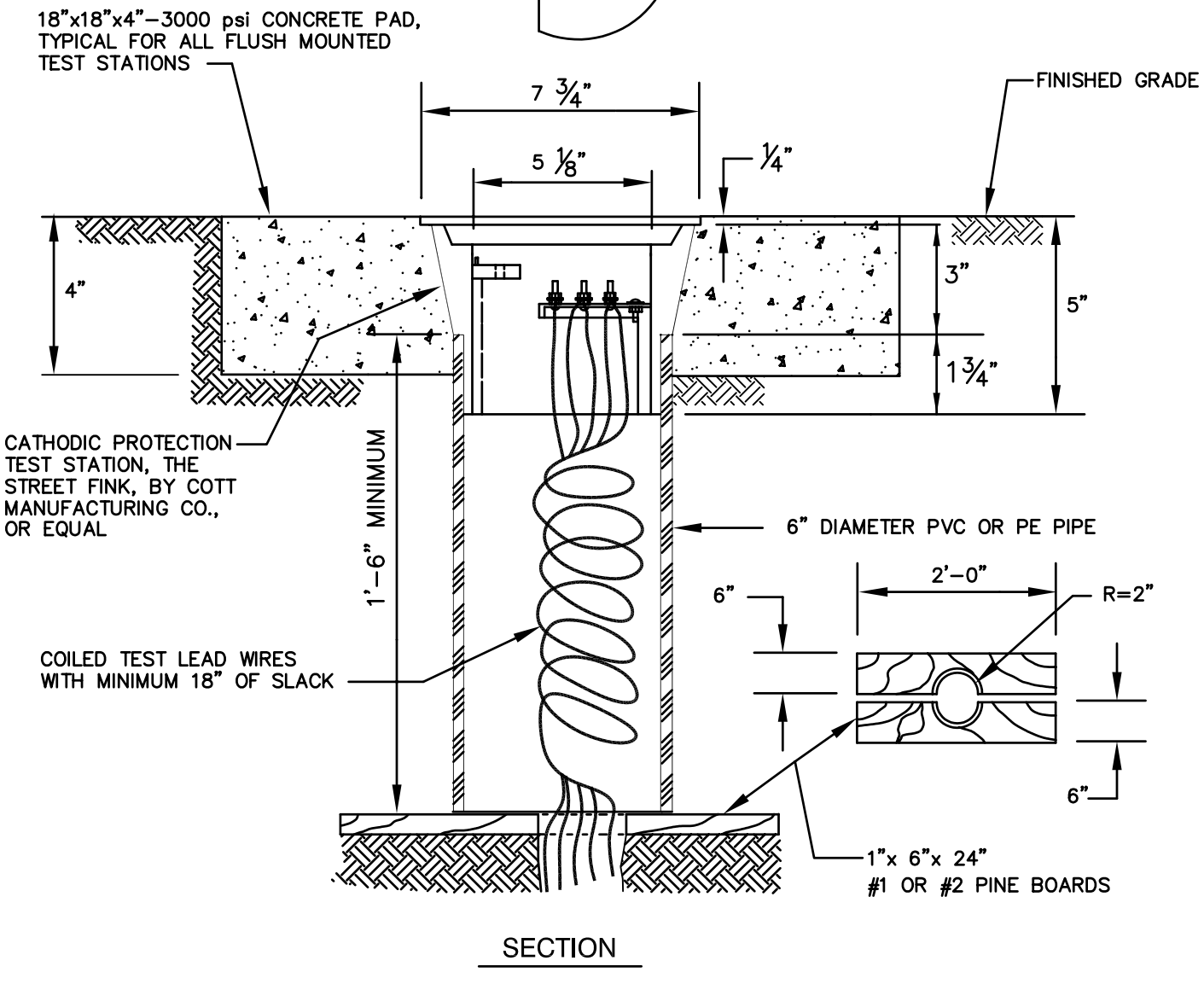


NOTES:

1. WHEN THE TEST STATION IS NOT DIRECTLY OVER THE PIPELINE, USE DETECTABLE WARNING TAPE ABOVE THE LEAD WIRES.
2. LOCATE TEST STATION OUTSIDE OF PROPOSED OR EXISTING PAVED AREAS.

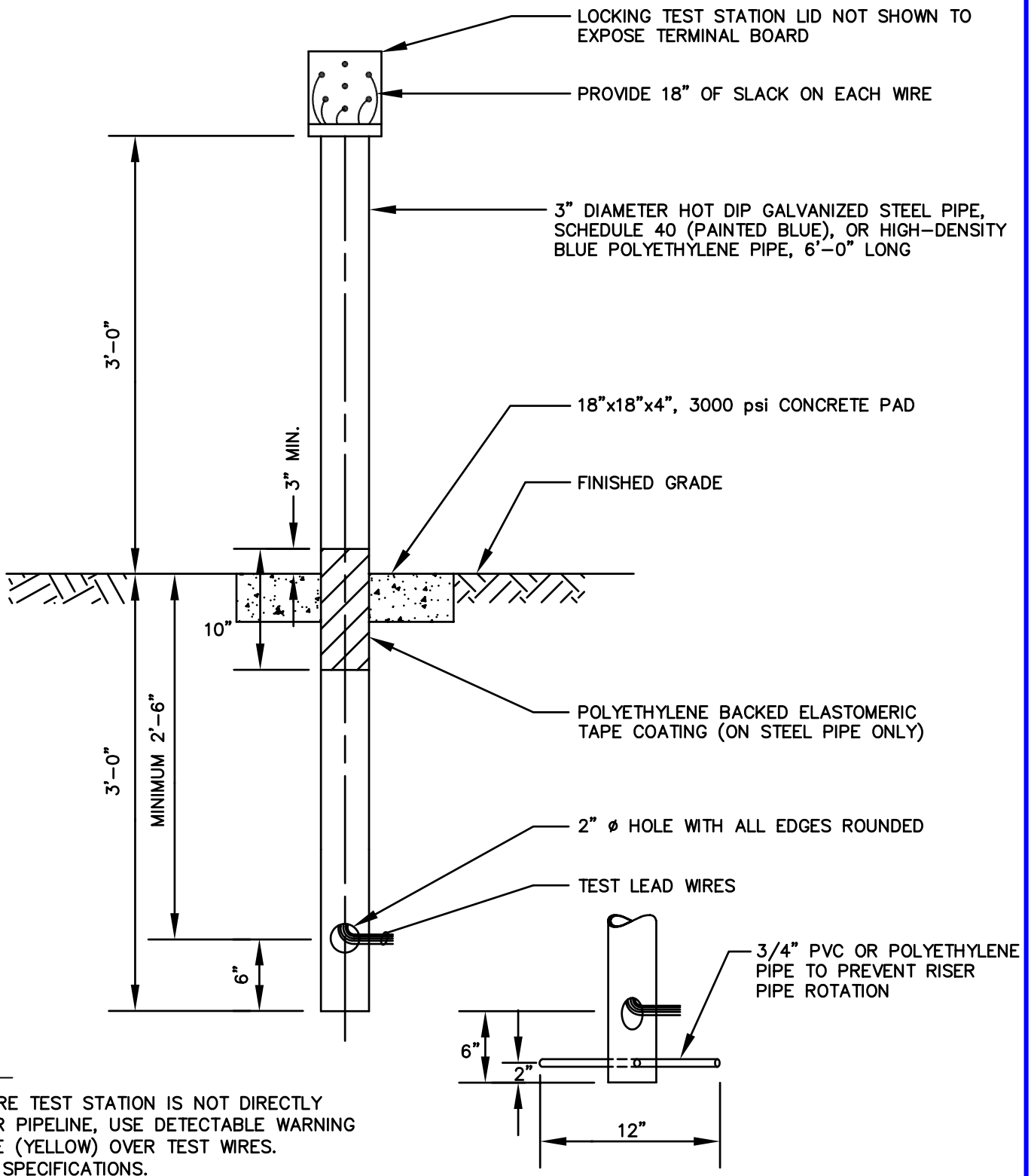
TERMINAL BLOCK





SECTION

WASHINGTON SUBURBAN SANITARY COMMISSION	APPROVED: JULY 1, 2005 Chief Engineer	STANDARD DETAIL FLUSH - MOUNTED TEST STATION	C 4.0

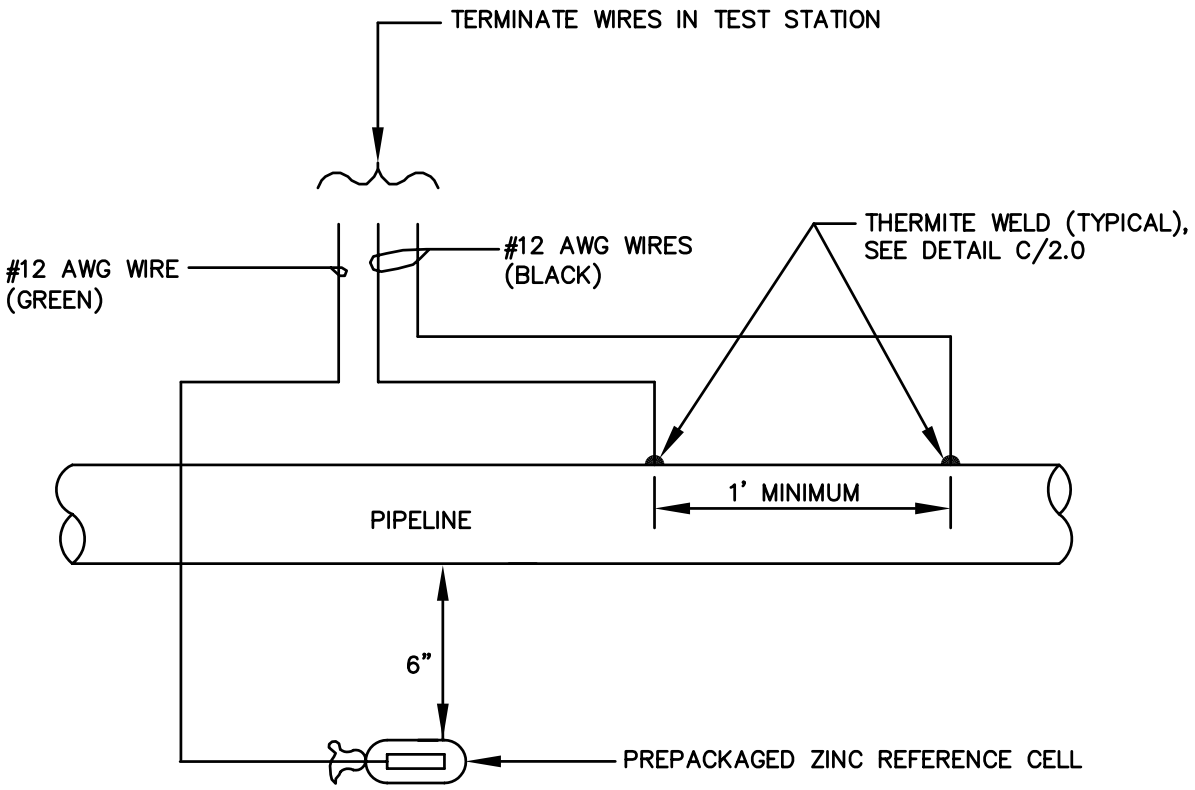


POLYETHYLENE PIPE INSTALLATION ONLY

NOTES:

1. WHERE TEST STATION IS NOT DIRECTLY OVER PIPELINE, USE DETECTABLE WARNING TAPE (YELLOW) OVER TEST WIRES. SEE SPECIFICATIONS.
2. LOCATE TEST STATION OUTSIDE OF THE PROPOSED OR EXISTING PAVED AREAS.

WASHINGTON SUBURBAN SANITARY COMMISSION	APPROVED: JULY 1, 2005 Chief Engineer	STANDARD DETAIL PIPE MOUNTED ABOVE GROUND TEST STATION	C 4.2



GENERAL NOTE:

1. SEE DETAIL C/3.0, NOTE 1, FOR TEST LEAD WIRE REQUIREMENTS.

WASHINGTON SUBURBAN SANITARY COMMISSION	APPROVED: JULY 1, 2005 Chief Engineer	STANDARD DETAIL TEST STATION WITH REFERENCE CELL	C 4.5

WASHINGTON SUBURBAN SANITARY COMMISSION

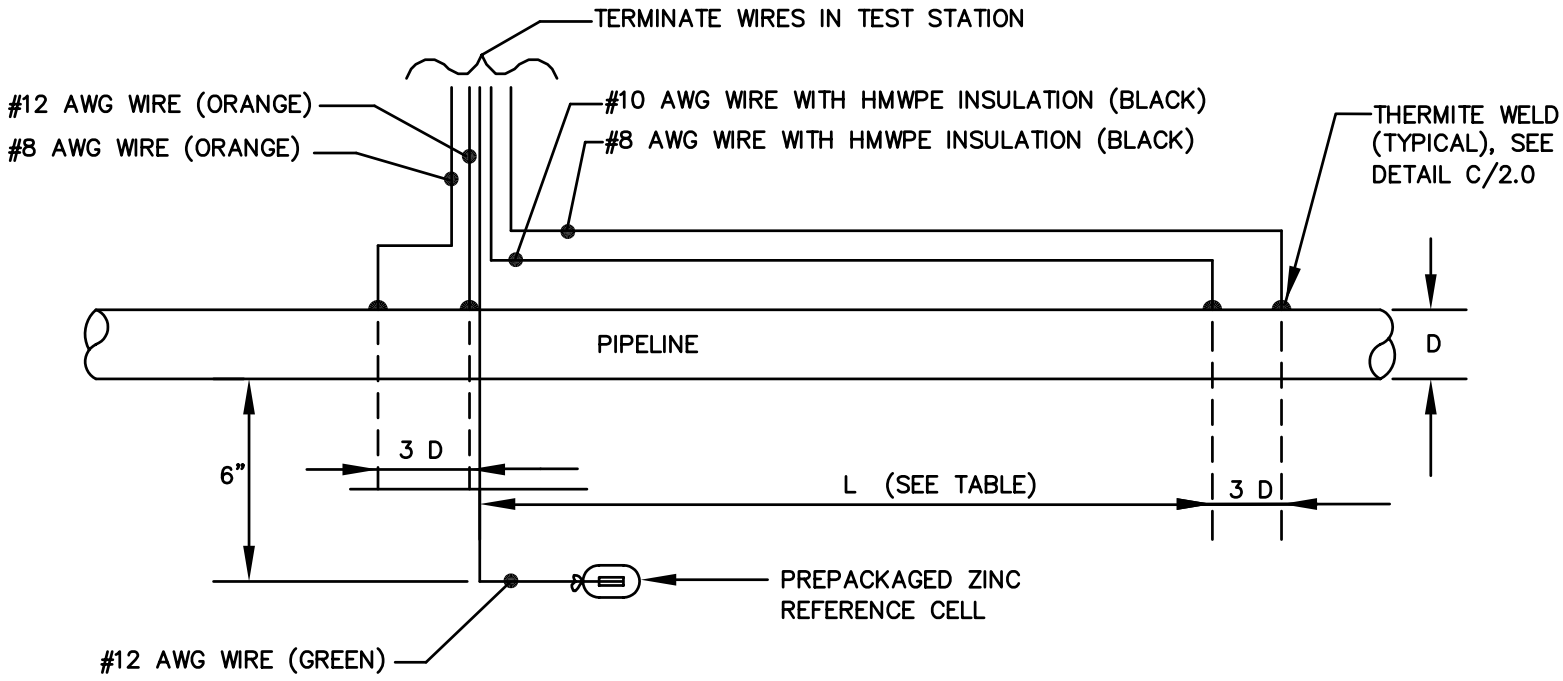
APPROVED: JULY 1, 2005

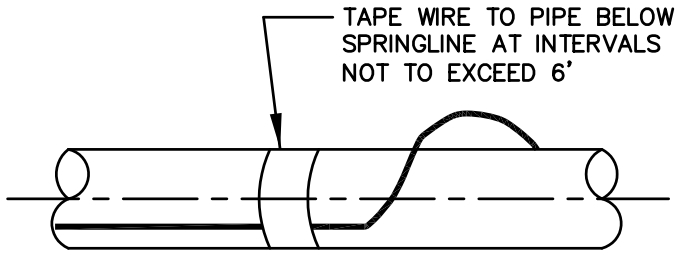
Chief Engineer

STANDARD DETAIL

IR DROP TEST STATION FOR DUCTILE IRON PIPE

C/4.6

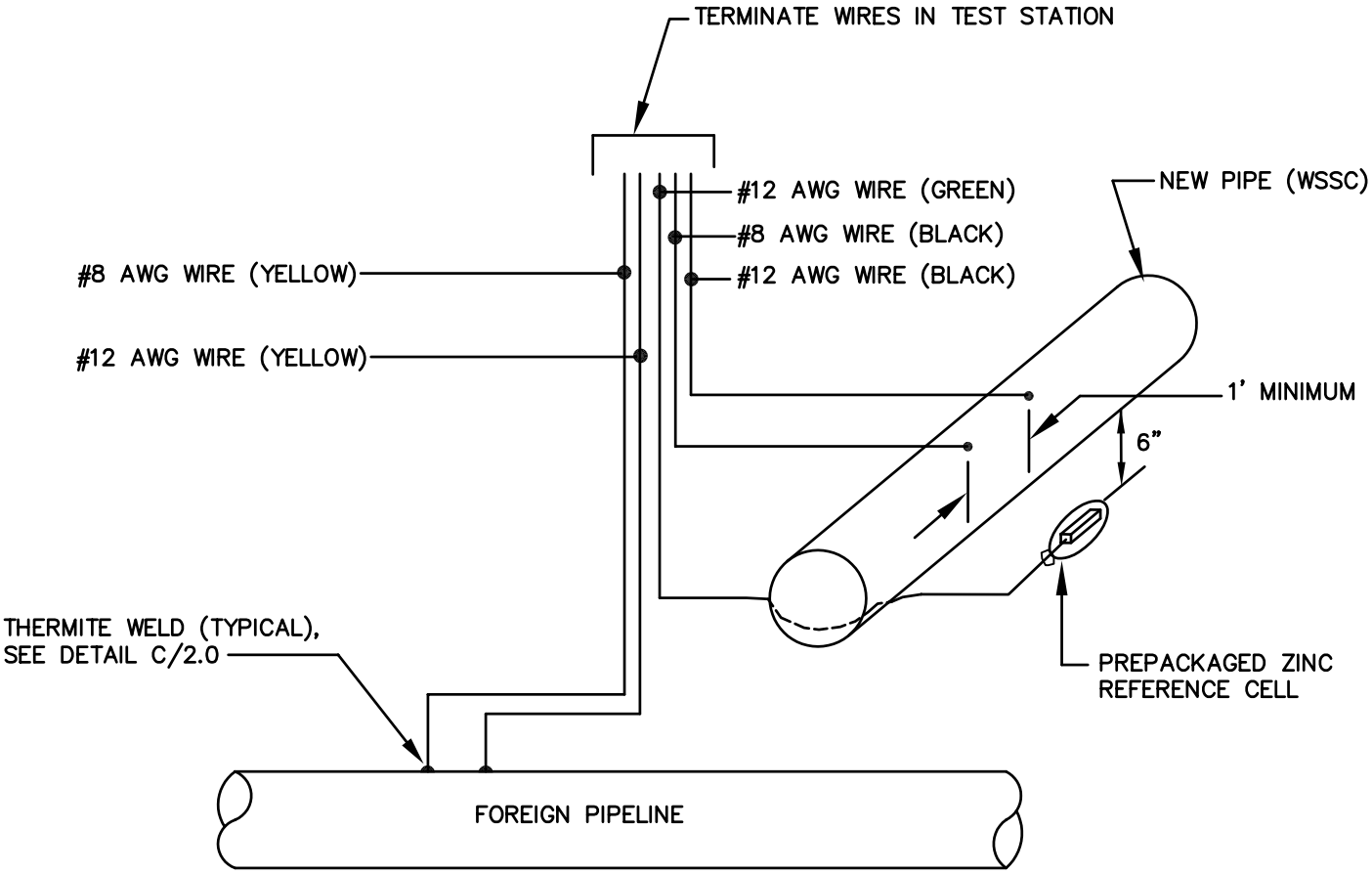




PIPE DIAMETER (D)	L (FEET)
4" TO 18"	100
20"	120
24"	160
30" TO 36"	200
42" TO 48"	240
54" TO 60"	300

GENERAL NOTE:

1. EXCEPT AS SPECIFIED ABOVE, TEST LEAD WIRES SHALL MEET REQUIREMENTS OF DETAIL C/3.0.



NOTES:

1. TEST LEAD WIRES SHALL MEET REQUIREMENTS OF DETAIL C/3.0, NOTE 1.
2. NOTIFY FOREIGN PIPELINE COMPANY IN ADVANCE FOR PERMISSION TO ATTACH WIRES TO THEIR PIPE, OR FOR THE FOREIGN PIPELINE COMPANY TO ATTACH WIRES TO THEIR PIPELINE.

WASHINGTON SUBURBAN SANITARY COMMISSION	APPROVED: JULY 1, 2005 Chief Engineer	STANDARD DETAIL TEST STATION AT FOREIGN PIPELINE CROSSING	C 4.7