# **CATHODIC PROTECTION INSTALLATION**

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		CATHODIC PROTECTION INSTALLATION	
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NOTES:

- 1) ALL WIRE CONNECTIONS TO STEEL PIPE TO BE CADWELDED PER NV ENERGY SPECIFICATIONS.
- 2) STEEL VALVE BOX LID TO BE MARKED BY MANUFACTURER OR BY WELDING "TS" OR "TEST STATION".
- 3) TEST LEAD WIRE TO BE LONG ENOUGH TO EXTEND 1 FOOT ABOVE GROUND LEVEL AND SHALL TERMINATE IN VALVE BOX AND BE PROPERLY LABELED.
- 4) USE <sup>3</sup>/<sub>4</sub>" PVC OR PE AS A LEAD WIRE CONDUCTOR PIPE PLACED APPROXIMATELY 6" ABOVE CARRIER PIPE AND INTO TEST STATION BOX.
- 5) EVERY EFFORT SHALL BE MADE TO LOCATE TEST STATION IN A SAFE AND ACCESSIBLE LOCATION.



MATERIALS LIST			
ITEM	STOCK #	QTY	DESCRIPTION
А	430090	1.0	6" VALVE BOX COVER MARKED FOR TEST STATION
В	430010	1.0	6" VALVE BOX CAST IRON
С	240175	1.0	$\frac{3}{4}$ " PVC OR PE CONDUIT
D	457600	25.0	BLACK #14 AWG HMWPE PROJECT PIPELINE TEST LEADS
Е	470037	1.0	CADWELD SLEEVE
F	470038	1.0	WELD CHARGE
G	470180	1.0	PRIMER
Н	470290	0.2	BLACK TAPE
Ι	470260	0.2	PROTECTIVE TAPE



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# CATHODIC PROTECTION INSTALLATIONS TEST STATION DETAIL

#### GCPI-AB GCPI-AG

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#### NOTES:

- 1) TRACER WIRE TO BE INSTALLED PER THE GAS CONSTRUCTION SPECIFICATIONS.
- 2) ALL WIRE SPLICES TO BE MADE USING CURRENT APPROVED TRACER WIRE CONNECTOR.
- 3) EVERY EFFORT SHALL BE MADE TO LOCATE TEST STATION IN A SAFE AND ACCESSIBLE LOCATION.
- 4) STEEL VALVE BOX LID TO BE MARKED BY MANUFACTURER OR BY WELDING "TS" OR "TEST STATION".
- 5) TEST LEAD WIRE TO BE LONG ENOUGH TO EXTEND 1 FOOT ABOVE GROUND LEVEL AND SHALL TERMINATE IN VALVE BOX AND BE PROPERLY LABELED.
- 6) USE <sup>3</sup>/<sub>4</sub>" PVC OR PE AS A LEAD WIRE CONDUCTOR PIPE PLACED APPROXIMATELY 6" ABOVE CARRIER PIPE AND INTO TEST STATION BOX.
- 7) LOCATING TEST STATIONS SHALL BE INSTALLED APPROXIMATELY EVERY 1,500' ON PE MAINS WITHOUT OTHER TEST LOCATIONS.



MATERIALS LIST			
ITEM	STOCK #	QTY	DESCRIPTION
А	430090	1.0	6" VALVE BOX COVER MARKED FOR TEST STATION
В	430010	1.0	6" VALVE BOX CAST IRON
С	240175	1.0	$\frac{3}{4}$ " PVC OR PE CONDUIT
D	457500	25.0	YELLOW #14 AWG HMWPE TRACER WIRE
Е	457000	1.0	WATERPROOF WIRE CONNECTOR



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CATHODIC PROTECTION INSTALLATIONS TEST STATION FOR LOCATING DETAIL **GCPI-AH** 

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### **SECTION 5: GAS CONSTRUCTION DRAWINGS**

#### NOTES:



MATERIALS LIST			
ITEM	STOCK #	QTY	DESCRIPTION
A*	470030	1.0	17# MAGNESIUM ANODE (GCPI-BA)
A*	470035	1.0	32# MAGNESIUM ANODE (GCPI-CA)
В	470037	1.0	CADWELD SLEEVE
С	470038	1.0	WELD CHARGE
D	470180	1.0	PRIMER
Е	470290	0.2	BLACK TAPE
F	470260	0.2	PROTECTIVE TAPE



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## CATHODIC PROTECTION INSTALLATIONS ANODE WITHOUT A TEST STATION

GCPI-BA GCPI-CA

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## **SECTION 5: GAS CONSTRUCTION DRAWINGS**

NOTES:

- 1) ALL WIRE CONNECTIONS TO STEEL PIPE TO BE CADWELDED PER NV ENERGY SPECIFICATIONS.
- 2) ANODE CAN BE INSTALLED VERTICALLY OR HORIZONTALLY BUT MUST HAVE A MINIMAL RADIAL CLEARANCE OF 2 FEET FROM THE STEEL PIPE AND BE POSITIONED AT AN ELEVATION NO HIGHER THAN THE STEEL PIPE.
- 3) USE <sup>3</sup>/<sub>4</sub>" PVC OR PE AS A LEAD WIRE CONDUCTOR PIPE PLACED APPROXIMATELY 6" ABOVE CARRIER PIPE AND INTO TEST STATION BOX.
- 4) TEST LEAD WIRES TO BE LONG ENOUGH TO EXTEND 1 FOOT ABOVE GROUND LEVEL AND SHALL TERMINATE IN VALVE BOX AND BE PROPERLY LABELED.
- 5) ANODES PLACED ON EITHER SIDE OF AN UNDERGROUND INSULATED OR MONOLITHIC FITTING MUST BE SEPARATED BY A MINIMUM OF 5 FEET TO AVOID CREATING AN INADVERTENT SHORT ACROSS THE INSULATOR.
- 6) DRAWING IS REPRESENTATIVE OF EITHER OR BOTH A MONOLITHIC INSULATOR AND AN UNDERGROUND INSULATED FITTING INSTALLATION.
- 7) DO NOT CONNECT TEST LEADS.



	MATERIALS LIST		
ITEM	STOCK #	QTY	DESCRIPTION
Α	430090	1.0	6" VALVE BOX COVER MARKED FOR TEST STATION
В	430010	1.0	6" VALVE BOX CAST IRON
С	240175	1.0	$\frac{3}{4}$ " PVC OR PE CONDUIT
D	457600	50.0	BLACK #14 AWG HMWPE PROJECT PIPELINE TEST LEADS
E*	470030	2.0	17# MAGNESIUM ANODE (GCPI-BC OR GCPI-BD)
E*	470035	2.0	32# MAGNESIUM ANODE (GCPI-CC OR GCPI-CD)
F	470037	2.0	CADWELD SLEEVE
G	470038	2.0	WELD CHARGE
Н	470180	1.0	PRIMER
Ι	470290	0.2	BLACK TAPE
J	470260	0.2	PROTECTIVE TAPE



VOLUME 15 - ENGINEERING & CONSTRUCTION STANDARD CATHODIC PROTECTION INSTALLATIONS MONOLITHIC OR UNDERGROUND INSULATED FITTING



NOTES:

- 1) ALL WIRE CONNECTIONS TO STEEL PIPE TO BE CADWELDED PER NV ENERGY SPECIFICATIONS.
- 2) ANODE CAN BE INSTALLED VERTICALLY OR HORIZONTALLY BUT MUST HAVE A MINIMAL RADIAL CLEARANCE OF 2 FEET FROM THE STEEL PIPE AND BE POSITIONED AT AN ELEVATION NO HIGHER THAN THE STEEL PIPE.
- 3) USE <sup>3</sup>/<sub>4</sub>" PVC OR PE AS A LEAD WIRE CONDUCTOR PIPE PLACED APPROXIMATELY 6" ABOVE CARRIER PIPE AND INTO TEST STATION BOX.
- 4) CONNECT LEADS USING APPROVED TRACER WIRE CONNECTOR.



			MATEDIALSLIST
MATERIALS LIST			
ITEM	STOCK #	QTY	DESCRIPTION
А	430090	1.0	6" VALVE BOX COVER MARKED FOR TEST STATION
В	430010	1.0	6" VALVE BOX CAST IRON
С	240175	1.0	$\frac{2}{4}$ " PVC OR PE CONDUIT
D	457600	25.0	BLACK #14 AWG HMWPE PROJECT PIPELINE TEST LEADS
E*	470030	1.0	17# MAGNESIUM ANODE (GCPI-BB)
E*	470035	1.0	32# MAGNESIUM ANODE (GCPI-CB)
F	470037	1.0	CADWELD SLEEVE
G	470038	1.0	WELD CHARGE
Н	470180	1.0	PRIMER
Ι	470290	0.2	BLACK TAPE
J	470260	0.2	PROTECTIVE TAPE
K	457000	1.0	WATERPROOF WIRE CONNECTOR

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CATHODIC PROTECTION INSTALLATIONS 17# OR 32# ANODE TEST STATION GCPI-BB GCPI-CB

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