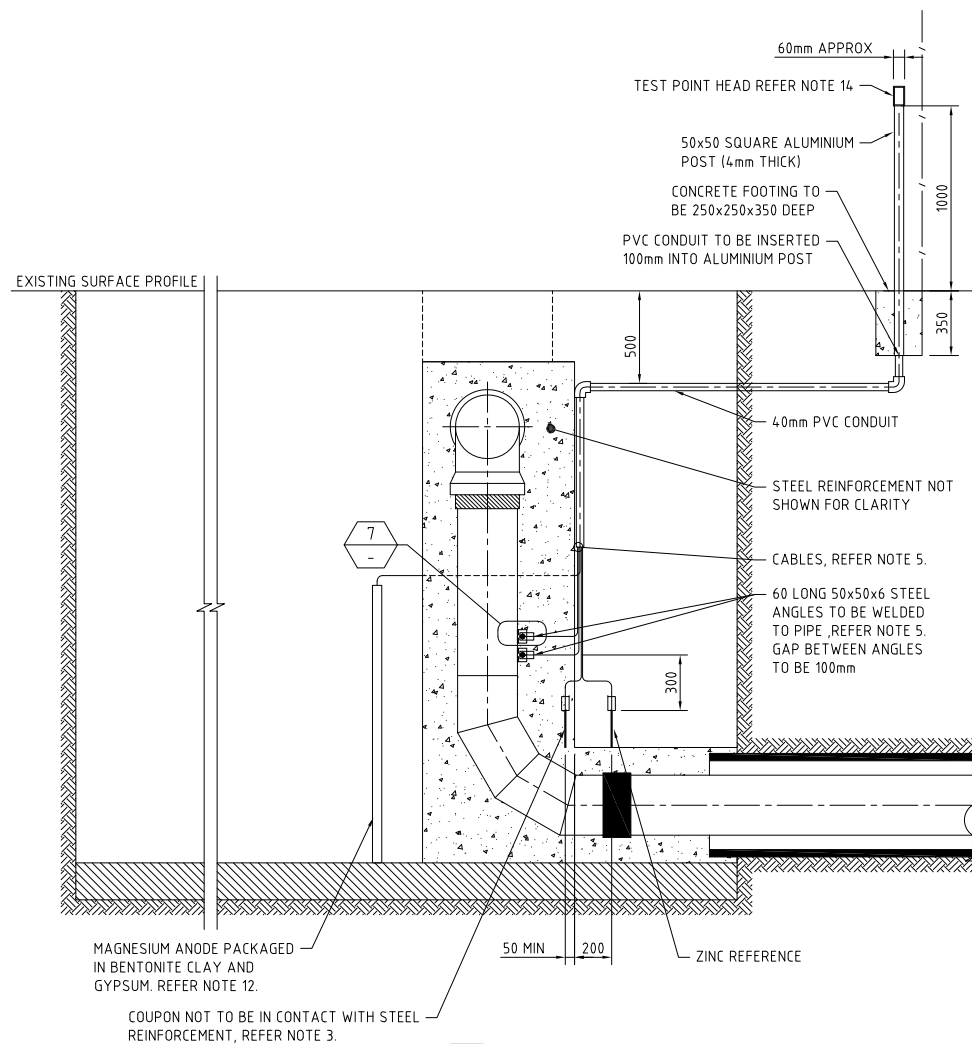
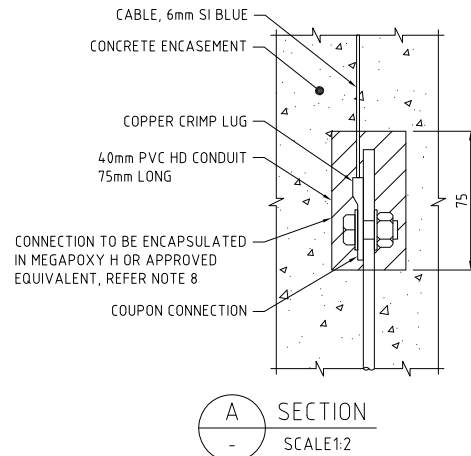
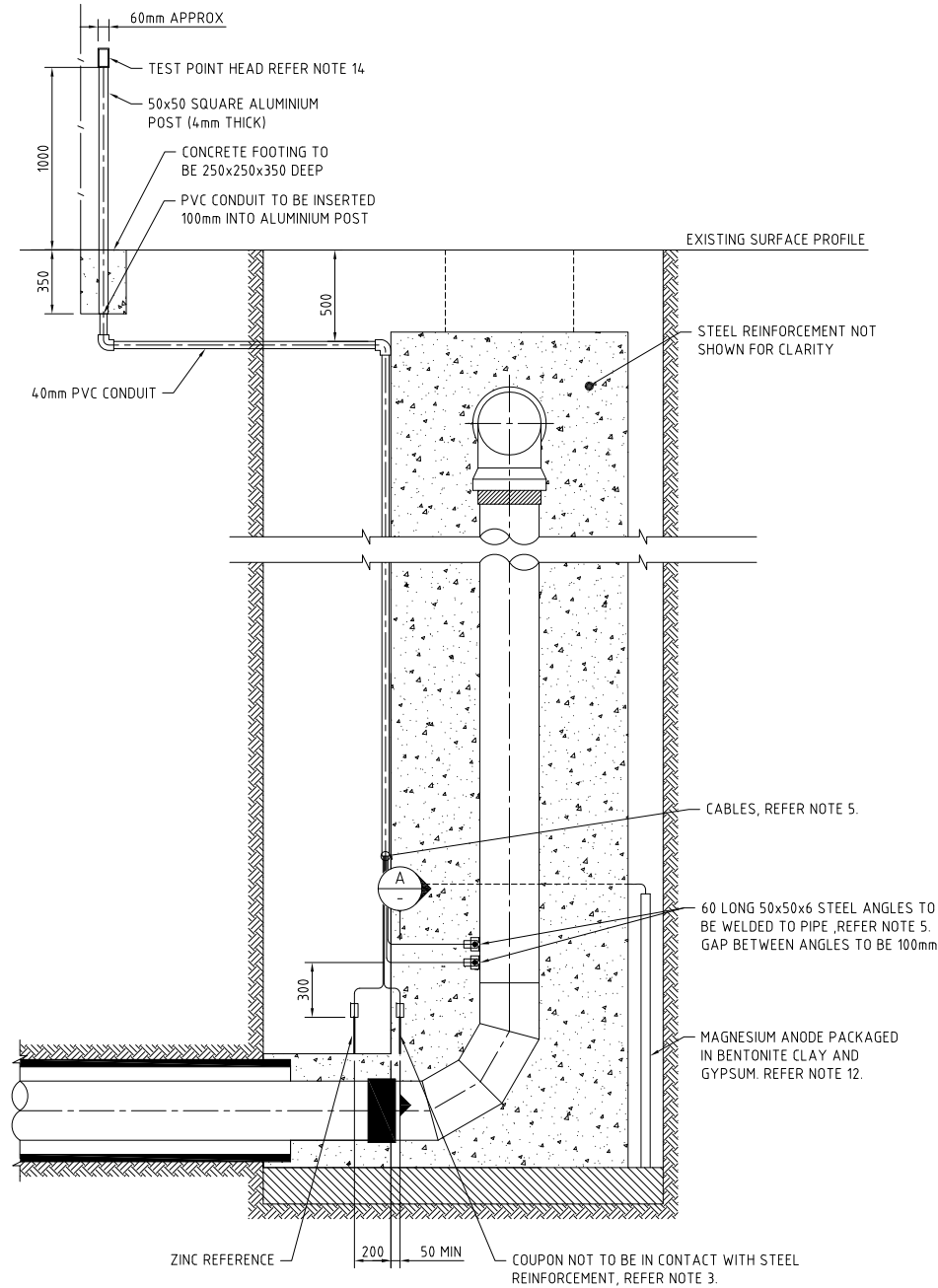
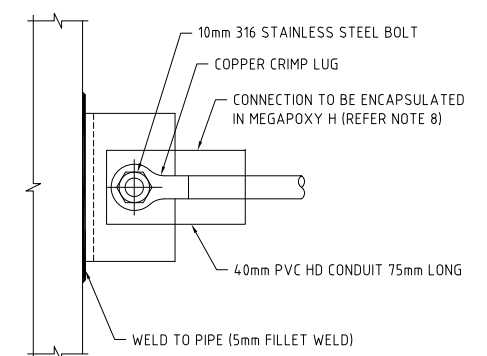


CIRCUIT DIAGRAM

5
Sh1
DETAIL
SCALE 1:206
Sh1
DETAIL
SCALE 1:207
-
DETAIL
SCALE 1:2

NOTES:

- TEST POINT HEAD TO BE LOCATED OUTSIDE RAILWAY CORRIDOR IN NON TRAFFICABLE AREA NEAR RAILWAY FENCE.
- ZINC REFERENCE TO BE BEDDED IN BACKFILL MATERIAL.
- THE COUPON SHALL BE INSTALLED VERTICALLY FULLY WITHIN THE CONCRETE ENCASEMENT. A DEFECT (REMOVAL OF FBPE) ON THE COUPON SHALL BE 10mm DIAMETER AND SHALL ENSURE METAL IS EXPOSED.

COUPON TO BE 150x100x5 MILD STEEL PLATE WITH FBPE COVERING. THE CABLE SHALL BE CRIMP LUGGED AND BOLTED TO THE PLATE WITH A 6mm DIAMETER STAINLESS STEEL GRADE 316 BOLT. THE COPPER CRIMP LUG SHALL HAVE HEAT SHRINK SLEEVING INSTALLED OVER THE BOLT/LUG CONNECTION.
- ANGLES TO BE FACTORY WELDED TO PIPE ON ALL FOUR SIDES OF THE ANGLE. FBPE COATING OF PIPE TO OCCUR AFTER ANGLES CONNECTED TO PIPE.
- ZINC CABLE SIZE TO BE 4mm SI YELLOW, COUPON CABLE SIZE TO BE 6mm SI BLUE, PIPE CABLE TO BE GRADE 316, M10 SI BLACK, MAGNESIUM CABLE 6mm² SI RED CABLE.
- ALL CABLE ENDS SHALL BE TERMINATED WITH COPPER CRIMP LUGS AND SELF SEALING HEAT SHRINK SLEEVING, PIPE CONNECTIONS SHALL BE BOLTED TO ANGLES WITH 10 STAINLESS STEEL BOLTS
- BANANA PLUG TO BE USED FOR ALL OUTLETS AT TEST POINT HEAD.
- SLOT TO BE CUT IN PVC CONDUIT TO ALLOW SNUG FIT OVER BOLTED CONNECTION, FOR COUPON AND AT PIPE CONNECTION.
- COUPON NOT TO BE IN CONTACT WITH CONCRETE STEEL REINFORCEMENT.
- ZN REFERENCE TO BE PRE-PACKAGED PROPRIETARY ELECTRODE (ZINC-ZINC SULFATE TYPE) WITH A MINIMUM DESIGN LIFE OF 30 YEARS AND STABILITY RATING \pm 5 MILLIVOLTS.
- MAGNESIUM ANODE SHALL BE IN THE TEST POINT HEAD BUT NOT CONNECTED TO THE PIPE. CONNECTION WILL BE UNDERTAKEN BY SWC IF REQUIRED.
- MAGNESIUM ANODE SHALL COMPLY WITH AS2239-2003. ANODE TO BE APPROX 1500mm BY 50mm BY 50mm.
- THE TEST POINT HEAD SHALL HAVE A STAINLESS STEEL PLATE ATTACHED WITH THE WORDS "SYDNEY WATER CATHODIC PROTECTION TEST POINT, FOR INFORMATION CONTACT 132090"
- TEST POINT HEAD TO BE ANODE ENGINEERING ALUMINIUM TEST POINT BOX.
- THIS DRAWING TO BE READ IN CONJUNCTION WITH DTC/1135 & DTC/1136.

Sydney
WATER

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APPROVED

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MANAGER E & ES

ENGINEERING & ENVIRONMENTAL SERVICES

A

ORIGINAL ISSUE

LETTER

DETAILS OF ISSUE / AMENDMENT

PJG

01/03/13

APP'D

DATE

DEEMED TO COMPLY DRAWINGS

**RAILWAY CROSSING - TRENCHLESS
STEEL WATER MAINS DN150 - DN300
CATHODIC TEST POINT - SHEET 3 OF 3****DTC****1137**

ISSUE

DATE

A**01/03/13**