TELEMETRY SYSTEM

The station shall be monitored by SA WATER'S Thebarton Control Centre, utilising the SA WATER metropolitan telemetry system. The contractor shall provide terminated outputs within the electrical switchboard cubicle for the telemetry system in accordance with SA WATER Standard Specification DS92.

At the contractors expense, SA WATER shall supply and install a remote telemetry unit within the switchboard cubicle, arrange land lines or radio links (as appropriate) arrange connections, and commission the telemetry system. Telstra installations and connection fees associated with the telemetry system shall be at the contractors expense.

Provide at least 6 weeks notice in advance to SA WATER to complete the telemetry installation (ref. Manager Mechanical and Electrical, PH (08) 216 1517 at SA WATER'S Thebarton Depot)

TELSTRA LAND LINE (where TELEMETRY is required)

CASE 1 STATION ABUTTING A PUBLIC ROAD

Provide a DN 32 Light Duty (white) UPVC conduit (complete with PVC covered galvanised steel draw wire pending cable installation), from the switchboard cubicle base direct into the Telstra Pit located 1000 inside the front boundary of the pumping station allotment. Finish the pit flush with the design surface level.

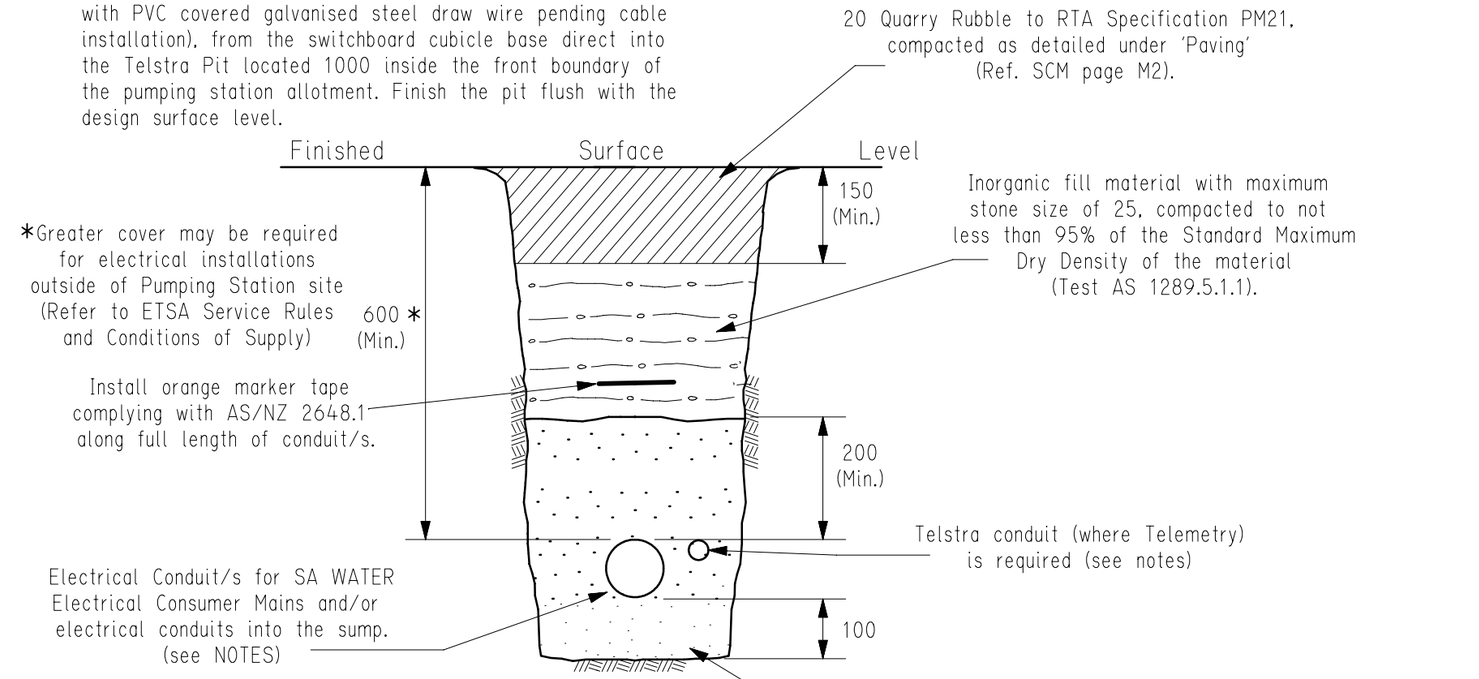
CASE 2 STATION REMOTE FROM A PUBLIC ROAD

Provide a DN 32 Light Duty (white) UPVC conduit (complete with PVC covered galvanised steel draw wire pending cable installation), from the switchboard cubicle base, along the access road and into the Telstra Pit located at the edge of the public road reserve boundary. Finish the pit flush with the design surface level.

NOTES:

Lay the Telemetry conduit at 300 minimum cover in accordance with AUSTEL TS009 1991, in the same trench as the ETSA cables (wherever possible).

All conduits shall be continuous with solvent cement joints and waterproofed by sealing the ends pending cable installation.




EMBEDMENT AND TRENCH FILL FOR ELECTRICAL CONDUITS

(within Pumping Station site only)

ETSA SERVICE MAINS

Contractor shall arrange for ETSA to provide electrical supply to the ETSA Service Pit for the pumping station site (Ref. SCM pages M5, M6 and M8).

SA WATER ELECTRICAL SWITCHBOARD

The SA WATER Electrical Switchboard shall be supplied, installed and tested in accordance with SA WATER Standard Specification DS92.

SA WATER ELECTRICAL CONSUMER MAINS
- UNDERGROUND INSTALLATIONS

Contractor shall provide, install and connect the SA WATER CONSUMER MAINS from the ETSA Service Pit to the SA WATER Electrical Switchboard via a DN63* UPVC electrical conduit (provide PVC covered galvanised steel draw wires pending cable installation).

* Confirm the conduit diameter with the Superintendent's Representative where the pump rating exceeds 25 Kw and/or the length of Consumer Mains exceeds 50m.

LIQUID LEVEL CONTROL CABLES ETC

Contractor shall provide 3 No. x DN 100 UPVC electrical conduits (complete with PVC covered galvanised steel draw wires pending cable installation) between the switchboard cubicle base and the pump sump to accommodate various electrical cables and liquid level control cables (Ref SCM page M8 for general arrangement).

NOTES:

All electrical conduits shall be orange coloured Heavy Duty rigid UPVC to AS/NZ 2053, laid at 600 minimum cover, installed in accordance with the SAA Wiring Rules (AS 3000) and ETSA Service Rules and Conditions of Supply.

All conduits shall be continuous with solvent cement joints and waterproofed by sealing the ends pending cable installation.

94-0163-09

ISSUED 6 Jan 97

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| Chg | | Amendment - UPDATED 7-6-96 | Des | JIS | | R.M.Jones | SOUTH AUSTRALIAN WATER CORPORATION |
| Drn | | | Drn | CLS | | | |
| Ckd | | | Exm | | | Executive Manager 14 / 6 / 96 | SA WATER |
| Unit Ldr. | | | Unit Ldr. | | | ENGINEERING GROUP | |



SEWER CONSTRUCTION MANUAL PAGE M9
STANDARD SUBMERSIBLE SEWAGE PUMPING STATION ETSA SERVICE AND TELEMETRY DETAILS, INCLUDING EMBEDMENT AND TRENCH FILL FOR ELECTRICAL CONDUITS

not to scale

94-0163-09