NOTES: ALL CHAMBERS SHALL BE LOCATED OUT ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE STATED OF CARRIAGEWAY IN ACCESSIBLE AREA. ALL JOINTS BETWEEN CONCRETE AND PIPES SHALL BE WATERTIGHT. GRP CABINET (WITH LOUVERED TERMINAL BOX 1 VENTILATION AND SUN SHADE) FINAL DIMENSIONS BY CONTRACTOR ALL EXTERNAL FACES TO BE TANKED IN ACCORDANCE WITH SPECIFICATION AND STANDARD DETAILS. ELECTRICITY METER ALL INTERNAL SURFACES ARE TO BE COATED AS SPECIFIED IN QCS, USING PAINT COLOUR 00A05 TO BS 4800. 130x220x130 (400x400x200) ALL DUCTILE IRON PIPEWORK TO BE WRAPPED IN ACCORDANCE WITH THE SPECIFICATION. TERMINAL BOX 2 ALL REINFORCED CONCRETE SHALL BE GRADE SRC 40 MIX UNLESS NOTED OTHERWISE. CONTROL CABINET SEE DRG No. SD 8-4-106 FOR STRUCTURAL NOTES. 100 DIA DUCT TO - FLECTRONIC DISPLAY UNIT 150 DIA DUCT TO POWER SUPPLY TELECOM/SCADA NETWORK CHAMBERS LOCATED IN PAVED AREAS SUBJECT TO VEHICLE LOADING TO BE CONSTRUCTED WITH DUCTILE IRON COVERS, GRADE D400 MCCB (280x450x150) 4 Nos. 100x100 STAINLESS STEEL LEG A/C TO D/C CONVERTER FIXED TO CABINET AND SCREWED/BOLTED TO MASS CONCRETE BASE GRAVEL CONCRETE BASE FOR SUPPLY LINES LARGER THAN 300 DN, UTILIZE TWO SEPARATE VALVE CHAMBERS, SEE DRG No. SD 8-4-401 & SD 8-4-418. LIMITS OF GRAVEL . CHAMBER SCHEDULE BASED ON DI FITTINGS FROM BS EN 545:2010 A 14. FOR SCADA AND RTU CABINET DETAILS SEE SD 8-4-418. 15. LOCATION OF SERVICE CABINET IS INDICATIVE ONLY. THE CONTRACTOR SHALL CONFIRM THE EXACT LOCATION WITH CUSTOMER SERVICES OF KAHRAMAA AND ENGINEER. 150 DIA LONG RADIUS DUCT TO POWER 100 DIA DUCT TO TELECOM/SCADA NETWORK 17. LEVEL ELECTRODE FIXED TO CHAMBER WALL. ALARM LEVEL = ST+175 TO BE CONFIRMED DURING DESIGN. —100 DIA DUCTS TO VALVE AND FLOW METER CHAMBERS RTU CIRCUITRY AND ESTABLISHING SCADA CONNECTIONS BY OTHERS. 9999 CONTRACTOR IS RESPONSIBLE FOR GENERATING THE SHOP / AS BUILT DRAWINGS BASED ON THE AGREED CHANGES DURING CONSTRUCTION AND THE ACTUAL SITE CONDITIONS. **CONTROL CABINET** SECTION A-A 20. THIS LAYOUT IS FOR GUIDANCE ONLY. THE LAYOUT MAY BE MODIFIED TO SUIT SITE CONDITIONS DURING CONSTRUCTION AS AGREED WITH THE ENGINEER. MINIMUM LENGTH OF STRAIGHT PIPEWORK UPSTREAM AND DOWNSTREAM OF FLOWMETER SHALL BE AS PER MANUFACTURER'S RECOMMENDATIONS. 24. CHAMBERS WITH A LUMINUM FRAME & COVERS AND ARE LEVELED ABOVE FINISHED GROUND LEVEL SHALL HAVE ALUMINUM FLASHING OF THE WATER PROOF MEMBRANE AND PROTECTION BOARD. TWIN 100 DIA PVC-U DUCTS WITH LONG RADIUS BEND MINIMUM 5 'D' LEGEND: DIAMETER NOMINAL MARKER PLATE-DUCTILE IRON DJ DISMANTLING JOINT D.I. FLEXIBLE COUPLERS FLANGE ADAPTOR GRP GLASS REINFORCED POLYESTER PRESSURE SAMPLING POINT HDPE HIGH DENSITY POLYETHYLENE TRANSMITTER (ALTERNATIVE LOCATION) SEE NOTE 16 INTEGRAL PUDDLE FLANGE MOLDED CASE CIRCUIT BREAKER GRP REKA COUPLING RTU REMOTE TERMINAL UNIT STEPPED COUPLING STUB FLANGE ASSEMBLY SCADA SUPERVISORY CONTROL AND DATA AQUISITION PVC-U POLYVINYL CHLORIDE UNPLASTICIZED FC FC SC ST50+ ROCKER PIPE CLOSURE PIECE TRANSMITTER FLOW METER ALTERNATIVE LOCATION FOR SAMPLING POINT - LEVEL ELECTRODE - LEVEL ELECTRODE RETRACTABLE SEE NOTE 22 TYPE GRP LADDER Rev. Date RETRACTABLE هيئية الأشفيال العامية D.I. PIPELINE **GRP PIPELINE** Public Works Authority 300 x 300 x 200 DEEP SUMP BUTTERFLY VALVE-1 300 x 300 x 200 DEEP SUMP P.O.Box: 22188 Tel.: 00974 44950000 Fax: 00974 44950999 FITTED WITH ACTUATOR AS REQUIRED MINIMUM LENGTH TO BE AS PER FLOW METER MANUFACTURER RECOMMENDATIONS PA **PROJECTS AFFAIRS**

> VALVE CHAMBER (SEE NOTE 8)

FLOW METER CHAMBER (SEE NOTE 8)

- ALL MATERIALS AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH THE CURRENT Q.C.S. UNLESS OTHERWISE AGREED WITH THE ENGINEER.

- D. ALL FLOW MONITORING AND CONTROL EQUIPMENT TO BE ACCORDING TO THE REQUIREMENTS (QCS SECTIONS 8,9 AND 10), WITH REMOTE COMMUNICATIONS COMPATIBILITY, FLOW METER SHALL IDENTIFY FORWARD REVERSE AND NET TOTAL.
- 7 mm NEOPRENE PAD TO BE PLACED BETWEEN ALL VALVES AND CONCRETE PLINTH SUPPORT.

- 16. SEE DRG No. SD 8-4-419 FOR TSE SAMPLING POINT DETAIL.

- 22. LEVEL ELECTRODE FIXED TO CHAMBER WALL. ALARM LEVEL ST 175 (TO BE CONFIRMED DURING DESIGN).
- 23. RETRACTABLE TYPE GRP LADDER WITH SAFETY CAGE IF THE CHAMBER DEPTH IS MORE THAN 3.5 METERS.

5	SEP 19	ISSUED FOR USE	
4	APR 19	ISSUED FOR USE	
3	01 MAR 19	UPDATED ISSUE	
2	05JUL15	ISSUED FOR USE	
1	19JAN15	ISSUED FOR USE	
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Section 8 - Drainage Works Part 4 - Pipeline Installation

TSE VALVE AND FLOW METER **CHAMBER** DN GREATER THAN 300

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SD-8-4-418