

ROAD REINSTATEMENT. SEE NOTE 12 [NOT APPLICABLE FOR NEW ROAD CONSTRUCTION]

SELECT FILL COMPACTED TO 95% STANDARD PROCTOR (REFER QCS2014, SECTION-8

GRANULAR BEDDING WITH TEMPORARY DRAIN TO SUMP IF REQUIRED, SEE NOTES 9 AND 10 (REFER QCS2014 SEC-8, PT-2, CL.2.3.1)

NOTES:

ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE STATED.

- ALL MATERIALS AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH THE CURRENT Q.C.S. UNLESS OTHERWISE AGREED WITH TH ENGINEER.
- JOINTING PIPES. HOLLOWS LEFT IN THE BEDDING TO ENABLE PIPES TO BE JOINTED SHALL BE AS SHORT AS PRACTICABLE AND SHALL BE LEFT UNFILLED UNTIL THE JOINTS HAVE BEEN INSPECTED AND THE PIPE TESTED TO THE SATISFACTION OF THE ENGINEER.
- COVER TO PIPES. COVER SHALL BE MEASURED FROM THE CROWN OF THE PIPE BARREL TO GROUND LEVEL.
- PROTECTION AGAINST ACCIDENTAL DAMAGE. WHERE A PIPELINE IS LIKELY TO BE DISTURBED IN THE FUTURE BY CONSTRUCTION WORK, INSTALLATION OF OTHER SERVICES, ETC. IT MAY ON THE ENGINEERS INSTRUCTION BE GIVEN A CONCRETE BED AND SURROUND.
- SUBKHA BUNDS. WHERE PIPES ARE LAID WITHOUT ADEQUATE COVER IN AREAS WHICH ARE SCHEDULED FOR FILLING, SUBHKA BUNDS SHALL BE CONSTRUCTED OVER THE PIPE COMPACTED IN ACCORDANCE WITH THE SPECIFICATION.
- LAYING PIPES. SHALL BE LAID TO THE DETAILS SPECIFIED BY THE MANUFACTURER AS APPROVED BY THE ENGINEER. PIPE SHALL BE LAID IN DRY TRENCH.
- GRP AND PVC-U PIPE BUILT INTO CONCRETE. WHERE REQUIRED BY THE SUPPLIER. A BAND OF NEOPRENE RUBBER OF 40 TO 70 DUROMETER, 6mm THICK AND 150mm WIDE SHALL BE WRAPPED AROUND THE PIPE PRIOR TO PLACEMENT OF ANY CONCRETE. THI BAND SHALL BE POSITIONED AROUND THE BUILT-IN SECTION OF THE PIPE WITH THE EDGE OF THE RUBBER AT THE INTERFACE BETWEEN CONCRETE AND THE BACKFILL.
- IN WET CONDITIONS OR FOR ROCK AREAS LIABLE TO SUBSIDENCE A GRANULAR BASE COURSE AT LEAST 100mm THICK IS TO BE CONSTRUCTED BENEATH THE CONCRETE PROTECTION AS SHOWN.
- 0. TEMPORARY DRAIN (PERFORATED PIPE) IS TO PROVIDED IN TRENCHES EXTENDING BELOW THE WATER TABLE. ABANDON AN GROUT PIPE UP ON COMPLETION
- WHERE THEACH WIGHTS EXCEPT THE MAXIMUM PERMISSIBLE WIDTH DETAILED ABOVE AND/OR CRUSHING STRENGTH OF PIPE NOT THE SAME AS SPECIFIED IN THE QCS, THE CONTRACTOR SHALL SUBMIT TO THE ENGINEER CALCULATIONS TO PROVE THE INTEGRITY OF THE PIPELINE. ANY ADDITIONAL COST AS A RESULT OF ANY REQUIRED CHANGE IN BEDDING SHALL BE THE CONTRACTORS RESPONSIBILITY.
- 12. SEE REINSTATEMENT DETAILS DRG Nos. SD 6-1-201 TO SD 6-1-205 FOR CONSTRUCTION IN EXISTING PAVEMENT.
- 3. GEOTEXTILE SHALL BE NONWOVEN NEEDLE-PUNCHED GEOTEXTILE MANUFACTURED FOR SUBSURFACE DRAINAGE APPLICATIONS AS PER QCS 2014, SECTION 6, PART 18, CLAUSE18.2.2
- LG GEORIN TO BE PLACED BETWEEN MODIFIED SELECT FILL AND SUB-BASE WHEN TRAFFIC LOADS EXCEED 20 MILLION ESAL'S. GEORIN TO BE USED SHOULD BE AS PER CGS 2014 SECTION 6, PART 18 AND AS DIRECTED BY THE ENGINEER IF REQUIRED. OVERLAP OF GEORRID SHALL BE AS PER MANUFACTURERS SPECIFICATIONS.

LEGEND:

FRL	FINISHED ROAD LEVEL
OD	OUTER DIAMETER
CLSM	CONTROLLED LOW STRENGTH MATERIAL
FTB	FLUIDIZED THERMAL BACKFILL
SRC	SULPHATE RESISTANT CEMENT CONCRETE

7	JULY 24	REPLACE IGNE WITH GABBOR	lIC		
6	FEB 22	REPLACE GAB	R		
5	MAR 21	ENGR'S INSTR ROAD REINST/	ED, E		
4	MAR 20	NOTE ON GEO ADDED & CAPF	b		
3	APR 19	ISSUED FOR U			
2	01 MAR 19	REVALIDATED			
1	07 MAR 16	ISSUED FOR U			
0	15 SEP 13	ISSUED FOR U			
Rev.	Date	R	Appd.		
ميئة الاشغال العامة Public Works Authority					
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SD 8-2-304

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