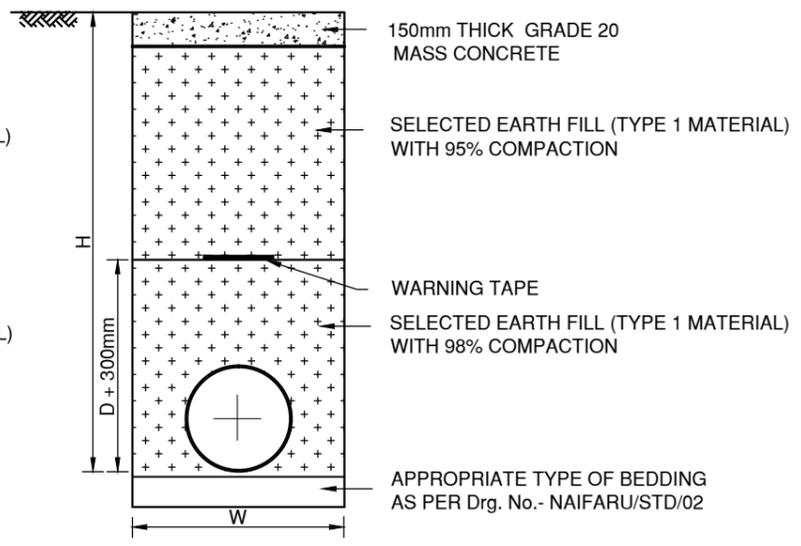


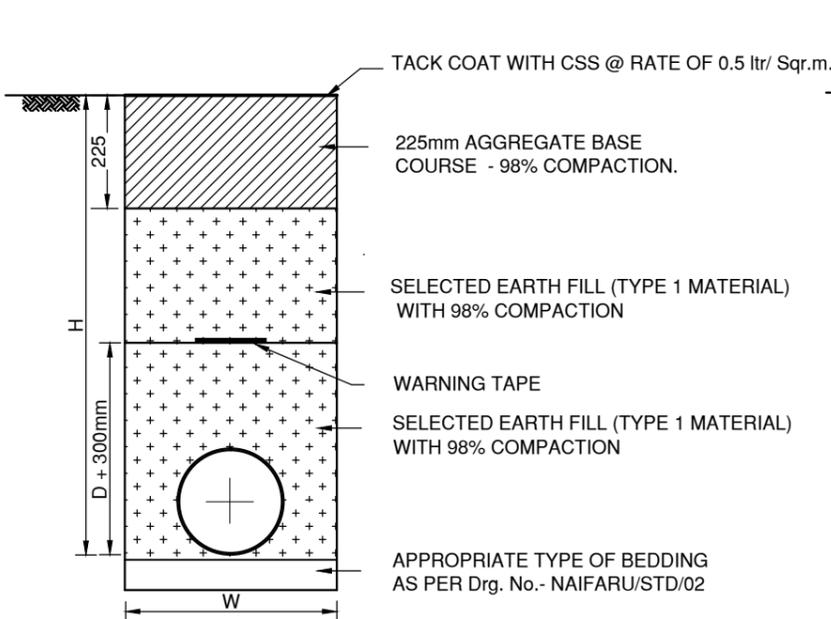
**BACK FILLING & PERMANENT/ TEMPORARY REINSTATEMENT
PIPE LOCATED AWAY FROM THE ROAD SHOULDER / SHOULDER/
EARTH CARRIAGEWAY**



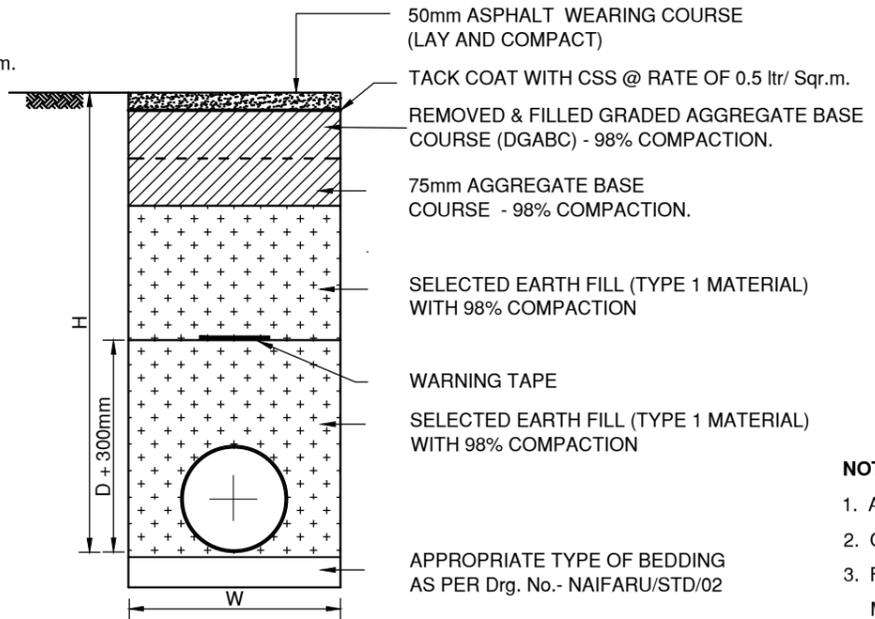
**BACK FILLING & PERMANENT REINSTATEMENT
CONCRETE ROAD**

DETAIL OF TRENCH FOR P.V.C PIPES & PE PIPES				
DIA(Ø) (mm)	PVC		PE	
	WIDTH(W) (m)	DEPTH(H) (m)	WIDTH(W) (m)	DEPTH(H) (m)
63	0.30	0.90		
90	0.45	1.10	0.30	1.00
110	0.45	1.20	0.40	1.12
125	-	-	0.40	1.14
140	-	-	0.40	1.15
160	0.60	1.20	0.45	1.17
180	-	-	0.45	1.19
200	-	-	0.45	1.21
225	0.60	1.30	0.50	1.24
250	-	-	0.50	1.26
280	0.60	1.30	0.60	1.29
315	0.75	1.35	0.60	1.33

DETAIL OF TRENCH FOR D.I PIPES		
DIA(Ø) (mm)	WIDTH(W) (m)	DEPTH(H) (m)
80	0.60	0.95
100	0.60	0.95
150	0.60	1.00
200	0.60	1.20
250	0.60	1.25
300	0.60	1.30
350	0.75	1.35
400	0.90	1.40
450	0.90	1.45
500	0.90	1.50
600	1.10	1.60
700	1.20	1.70
800	1.30	1.90



**BACK FILLING & TEMPORARY REINSTATEMENT
ASPHALT / TARRED ROADS/ CARRIAGEWAY**



**BACK FILLING & PERMANENT REINSTATEMENT
ASPHALT / TARRED ROADS/ CARRIAGEWAY**

TABLE TO SELECT APPROPRIATE BEDDING TYPE		
TYPE OF SOIL	APPROXIMATE BEARING CAPACITY KN/m ²	BEDDING TYPE
HARD SOIL/ROCK	>200	A
NORMAL SOIL	100-200	B
LOOSE SOIL	<200	C
CLAY	>75	C
	<75	D
PEAT/MASHY AREAS	<75	D

NOTE:

- ALL DIMENSIONS ARE IN MILLIMETERS.
- CSS-CATIONIC SLOW SETTING
- FOR NORMAL SOIL BACKFILLING MATERIAL SHALL BE SOIL (TYPE 1 MATERIAL) HAVING THE MAXIMUM DRY DENSITY UNDER STANDARD CONDITIONS OF PROCTOR COMPACTION NOT LESS THAN 1600KG/M³. WITH THE PROPERTIES OF PLASTIC LIMIT LESS THAN 15, LIQUID LIMIT LESS THAN 40 AND CBR > 20. EXCAVATED SOIL CAN BE USED AS BACK FILLING MATERIAL IF THEY CONFORM TO THE REQUIRED SPECIFICATION MATERIAL TO BE COMPACTED TO A DRY DENSITY NOT LESS THAN 98% OF MAXIMUM DRY DENSITY.

NOT TO SCALE

 <p>CLIENT: MINISTRY OF ENVIRONMENT AND ENERGY</p>	<p>CONSULTANCY SERVICES FOR DESIGN OF WATER SUPPLY FACILITIES IN Ha.HORAFUSHI, Hdh.HANIMAADHOO, Sh.MILANDHOO, R.UNGOOFAARU, Lh.NAIFARU, Dh.KUDAHUVADHOO, Th.GURAIHOO AND Ga.VILLINGILI, MALDIVES</p>	DESIGN	DRAWN	CHECKED	APPROVED	SL.NO	DRWING NO	DESCRIPTION
		ENGINEER		DESIGN CHIEF				
<p>GREENTECH CONSULTANTS (Pvt.) Ltd IN ASSOCIATION WITH DEVELOPMENT COLLABORATION PARTNERSHIP (Pvt.) Ltd MALDIVES AND OPTIMUM SOLOUTIONS (Pvt) Ltd, MALDIVES</p>	<p>TITLE: BACKFILLING AND TEMPORARY / PERMANENT REINSTATEMENT OF TRENCHES</p>	DATE	DRG.NO: NAIFARU/STD/01					
			SCALE: NOT TO SCALE					