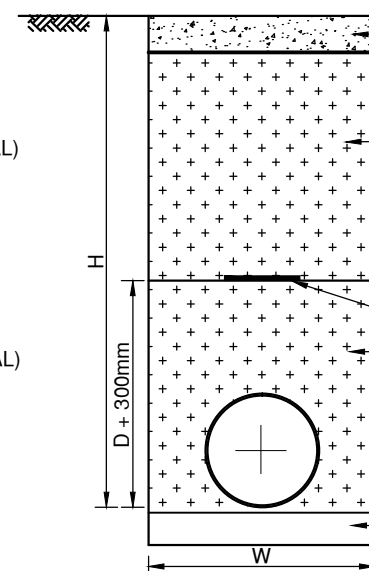


SELECTED EARTH FILL (TYPE 1 MATERIAL)
WITH 95% COMPACTION

WARNING TAPE

SELECTED EARTH FILL (TYPE 1 MATERIAL)
WITH 98% COMPACTION

APPROPRIATE TYPE OF BEDDING
AS PER Drg. No.- NAIFARU/STD/02



150mm THICK GRADE 20
MASS CONCRETE

SELECTED EARTH FILL (TYPE 1 MATERIAL)
WITH 95% COMPACTION

WARNING TAPE

SELECTED EARTH FILL (TYPE 1 MATERIAL)
WITH 98% COMPACTION

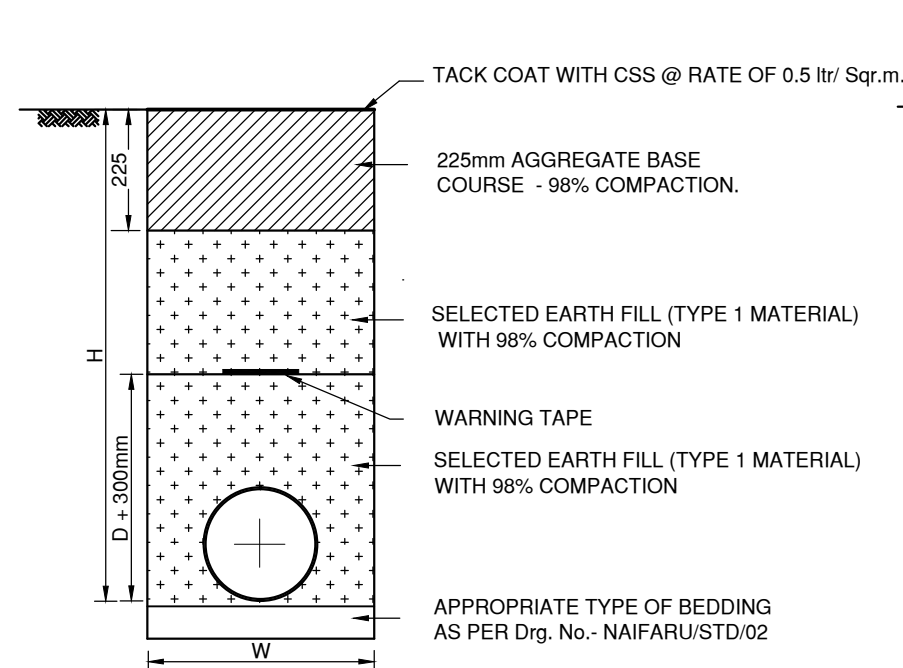
APPROPRIATE TYPE OF BEDDING
AS PER Drg. No.- NAIFARU/STD/02

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

**BACK FILLING & PERMANENT REINSTATEMENT
CONCRETE ROAD**



TACK COAT WITH CSS @ RATE OF 0.5 ltr/ Sqr.m.

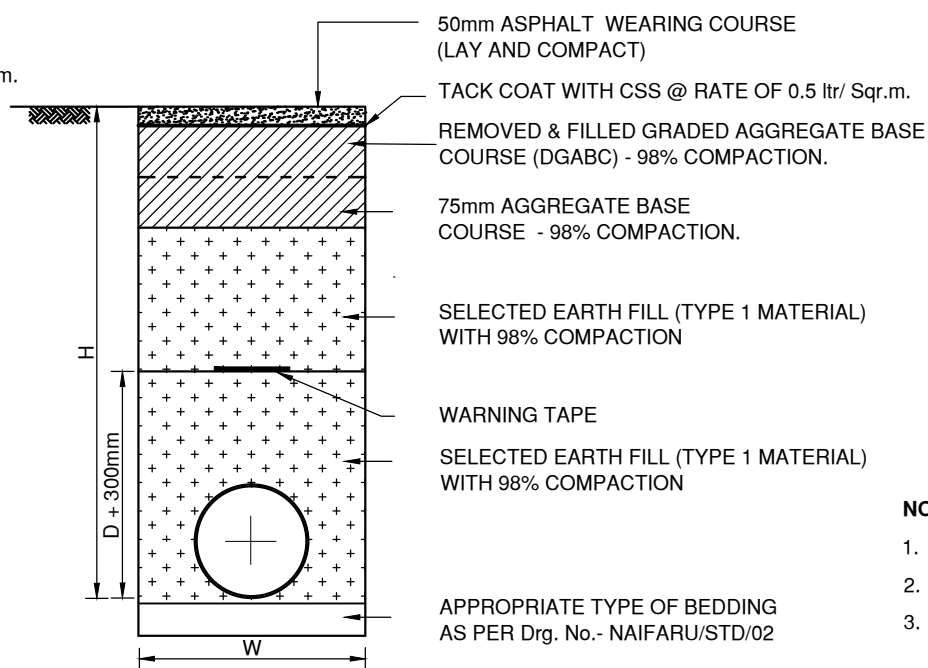
225mm AGGREGATE BASE
COURSE - 98% COMPACTION.

SELECTED EARTH FILL (TYPE 1 MATERIAL)
WITH 98% COMPACTION

WARNING TAPE

SELECTED EARTH FILL (TYPE 1 MATERIAL)
WITH 98% COMPACTION

APPROPRIATE TYPE OF BEDDING
AS PER Drg. No.- NAIFARU/STD/02



50mm ASPHALT WEARING COURSE
(LAY AND COMPACT)

TACK COAT WITH CSS @ RATE OF 0.5 ltr/ Sqr.m.

REMOVED & FILLED GRADED AGGREGATE BASE
COURSE (DGABC) - 98% COMPACTION.

75mm AGGREGATE BASE
COURSE - 98% COMPACTION.

SELECTED EARTH FILL (TYPE 1 MATERIAL)
WITH 98% COMPACTION

WARNING TAPE

SELECTED EARTH FILL (TYPE 1 MATERIAL)
WITH 98% COMPACTION

APPROPRIATE TYPE OF BEDDING
AS PER Drg. No.- NAIFARU/STD/02

**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



CLIENT:
MINISTRY OF ENVIRONMENT
AND ENERGY

CONSULTANCY SERVICES FOR DESIGN OF WATER SUPPLY FACILITIES IN Ha.HORAFUSHI,
Hdh.HANIMAADHOO,Sh.MILANDHOO,R.UNGOOFAARU,Lh.NAIFARU,Dh.KUDAHUVADHOO
,Th.GURAI DHOO AND Ga.VILLINGILI , MALDIVES

DESIGN

DRAWN

CHECKED

APPROVED

SL.NO

DRWING NO

DESCRIPTION

ENGINEER

DESIGN CHIEF

DATE

DRG.NO: NAIFARU/STD/01

SCALE: NOT TO SCALE

GREENTECH CONSULTANTS (Pvt.) Ltd IN ASSOCIATION WITH
DEVELOPMENT COLLABORATION PARTNERSHIP (Pvt.) Ltd MALDIVES
AND OPTIMUM SOLOUTIONS (Pvt) Ltd, MALDIVES

TITLE:
BACKFILLING AND TEMPORARY / PERMANENT REINSTATEMENT OF TRENCHES