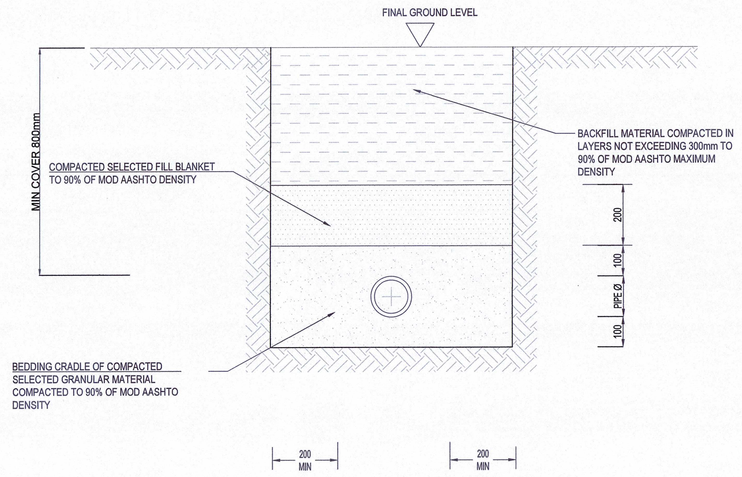
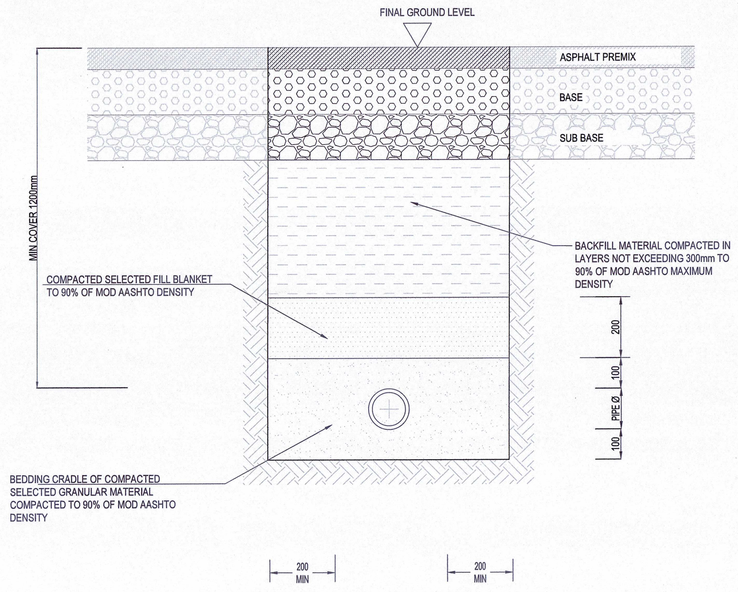
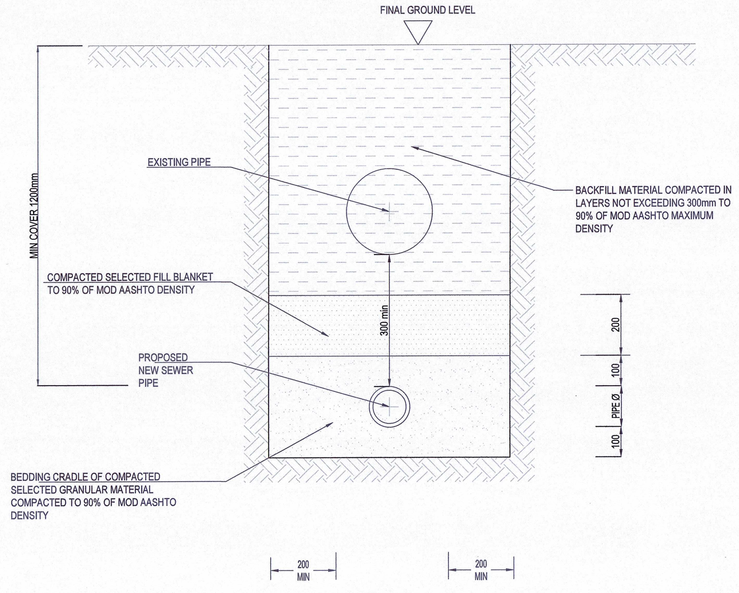


TYPICAL PIPE BEDDING SECTION UNPAVED SURFACES



TYPICAL PIPE BEDDING SECTION PAVED SURFACES



TYPICAL SECTION CLASHING OR
CROSSING OF SERVICES

PIPE BEDDING NOTES

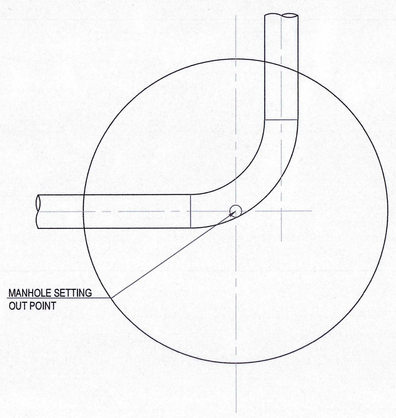
1. MINIMUM COVER BEFORE MH 1 (REGARDED AS A HOUSE CONNECTION) IS BELOW 600mm, ALL OTHER MANHOLES SHALL HAVE A MINIMUM COVER OF 800mm SERVITUDE AND 1.2mm IN ROADWAYS.
2. REINSTATE ALL EXISTING LAYERWORKS AS PER THE INITIAL DESIGN IN ROADWAYS
3. TOP SOIL SHALL BE REINSTATED IN GRASSED AREAS
4. HAND EXCAVATION SHALL BE DONE WITH THE INSPECTION OF THE ENGINEER IN AREAS WITH MARKED SERVICES.
5. FOR PIPE CROSSING THE SEWER PIPELINE SHALL ALWAYS BE LAID AT THE BOTTOM, WITH A MINIMUM OF 300mm CLEARANCE DISTANCE KEPT BETWEEN SERVICES. IN THE CASE OF ELECTRICAL CABLES OR PORTABLE WATER, A MINIMUM OF 500mm SHALL BE KEPT BETWEEN THE SERVICES.
6. IN AREAS WHERE THE MINIMUM DISTANCES CAN NOT BE ACHIEVED A DROP MANHOLE WILL BE INSTALLED WITH THE INSTRUCTION OF THE ENGINEER, REDUCING THE INVERT LEVEL OF THE PIPE SUCH THAT THE DESIRED MINIMUM COVER IS ACHIEVED.

PIPE BEDDING DETAILS

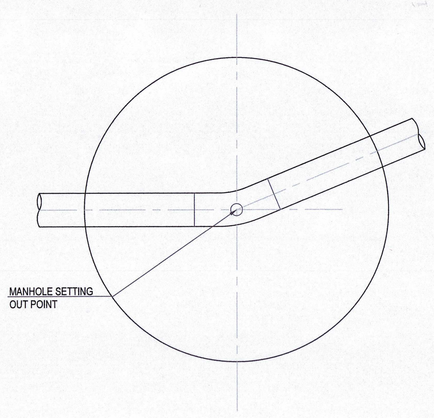
SCALE: 1:10

MANHOLE DETAIL NOTES

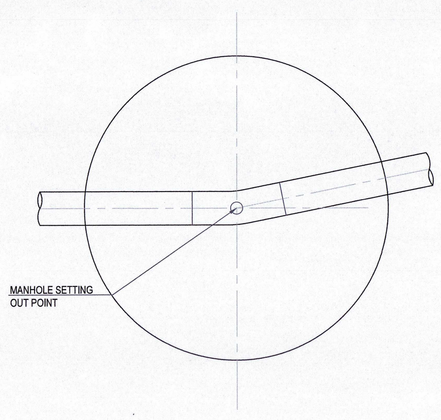
1. ALL MANHOLES SHALL BE CASTED AS PER THE LONG SECTION AND THE SETTING OUT COORDINATES WITH THE SETTING OUT COORDINATES GIVEN AS THE CENTER OF THE MANHOLE



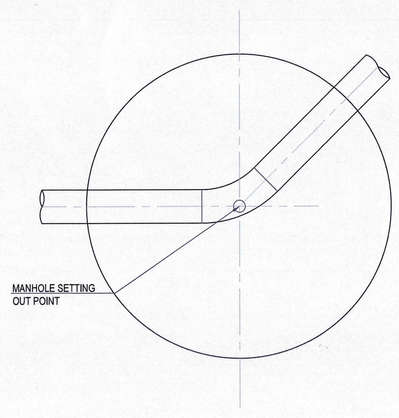
MANHOLE BENDS 90°



MANHOLE BENDS 22.5°



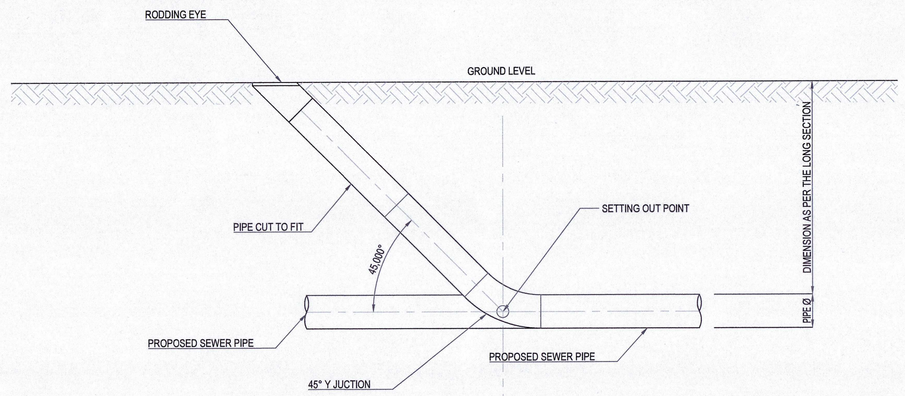
MANHOLE BENDS 11.25°



MANHOLE BENDS 45°

PIPE BENDS

SCALE: 1:10



APPROVED
PORT ENGINEER
DATE: 27/03/2026

RODDING EYE DETAIL

SCALE: 1:10

XDN.E.0048 - 001 - C - DE - 0002	TYPICAL DETAILS
XDN.E.0048 - 001 - C - DE - 0001	SEWER MANHOLE DETAIL
XDN.E.0048 - 001 - C - LA - 0002	WATER LAYOUT DETAIL
XDN.E.0048 - 001 - C - LA - 0002	SEWER LONG SECTION
XDN.E.0048 - 001 - C - LA - 0001	INSERT A - ABLUTION DEVELOPMENT
XDN.E.0048 - 001 - C - GA - 0002	GENERAL SERVITUDES LAYOUT
XDN.E.0048 - 001 - C - GA - 0001	GENERAL SITE LAYOUT
DRAWING NO.	DRAWING DESCRIPTION

REFERENCE DRAWINGS

NOTES:

a. MEASUREMENTS ARE BASED ON METRIC SYSTEM.
b. ALL LEVELS ARE IN METERS TO MEAN SEA LEVELS (MSL)
c. DO NOT SCALE DRAWING - ONLY DIMENSIONS SHOWN TO BE USED.
d. THE CONTRACTOR SHALL VERFIY ALL SERVICES OR CONDITIONS ON THE SITE AND NOTIFY THE ENGINEERING OF ANY VARIATIONS FROM DIMENSIONS BEFORE CONSTRUCTION.

NO.	DESCRIPTION	BY	CHKD	APPD	DATE
01	ISSUED FOR CONSTRUCTION	SM	MT	MT	2026.05.26

REVISIONS

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CONTRACTOR / CONSULTANT			
TITLE	NAME	SIGN	DATE
DRAWN	.		. . .
CHECKED	.		. . .
DESIGNED	.		. . .
CHECKED	.		. . .
PR.ENG. / PR.TECH./PR. ARCH			
NAME			DATE
SIGNATURE			. . .
REG. NUMBER			
TITLE			
SCALE :			
TRANSNET DRG. NO.			

TRANSNET NATIONAL PORTS AUTHORITY			
TITLE	NAME	SIGN	DATE
DRAWN	S MBATHA		26 05 25
CHECKED	M TYEBI		26 05 25
DESIGNED	S MBATHA		26 05 25
CHECKED	M TYEBI		26 05 25
PR.ENG. / PR.TECH./PR. ARCH			
NAME	M. TYEBI		DATE
SIGNATURE			26 05 25
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PROJECT / AREA / ASSET / SUBJECT/DRAWING TITLE

PORT OF DURBAN

UPGRADE OF THE NORTH GROYNE PROMENADE

TYPICAL DETAILS

1 MAHATMA GANDHI ROAD, POINT, DURBAN
PORTION 13 OF ERF 10031 DURBAN - FU

PROJECT DRG. NO. XDN.E.0048 - 001 - C - DE - 0002 - 01

REV. 01