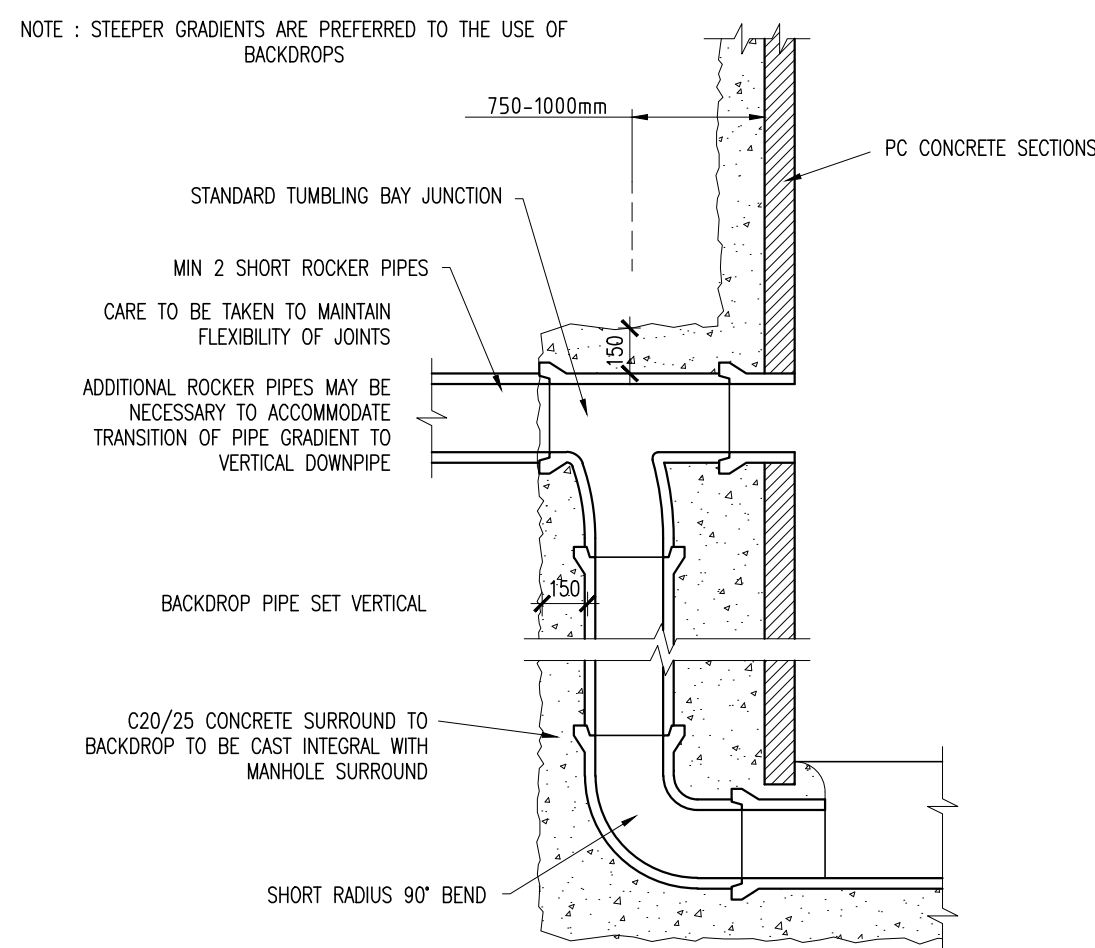
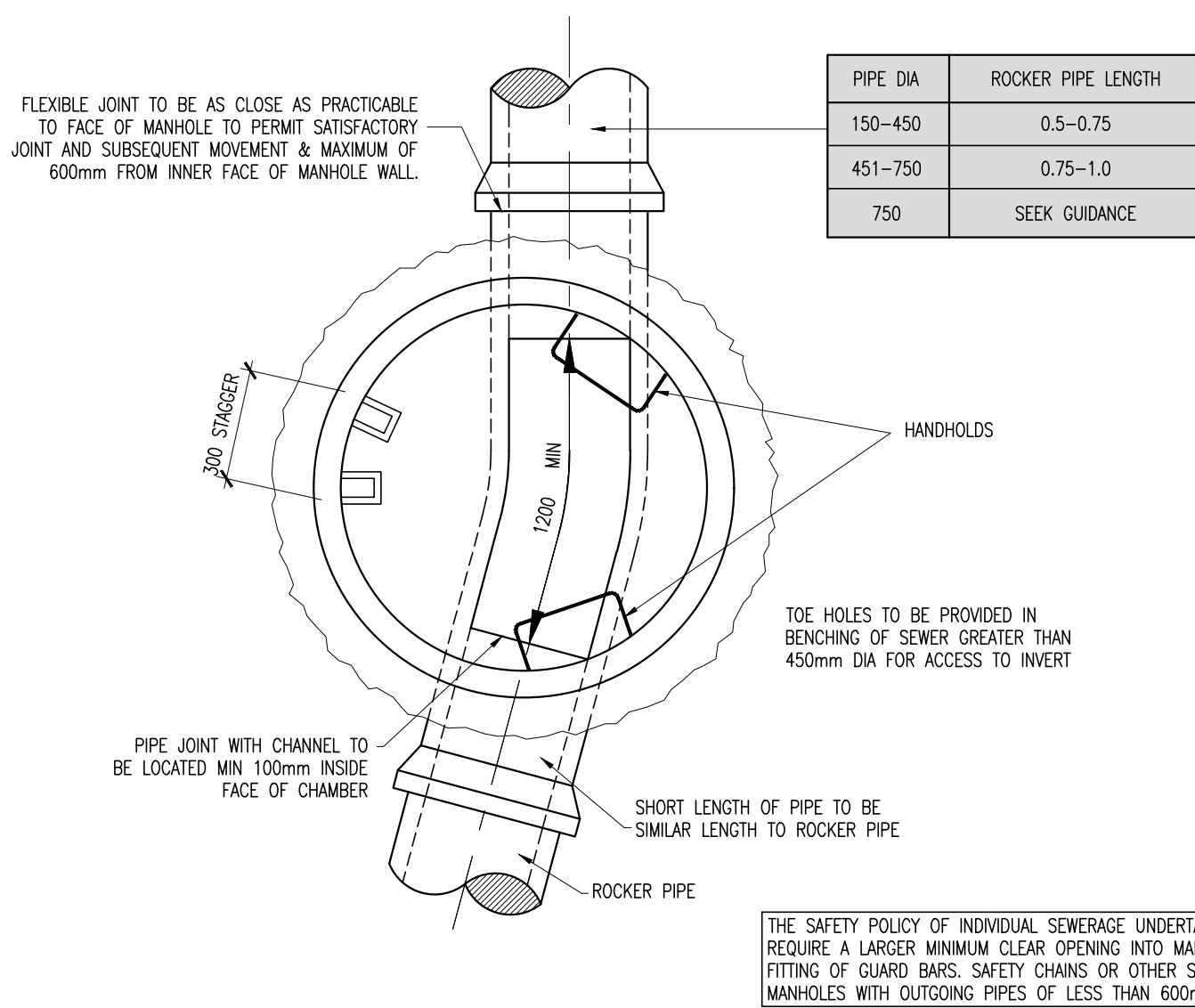
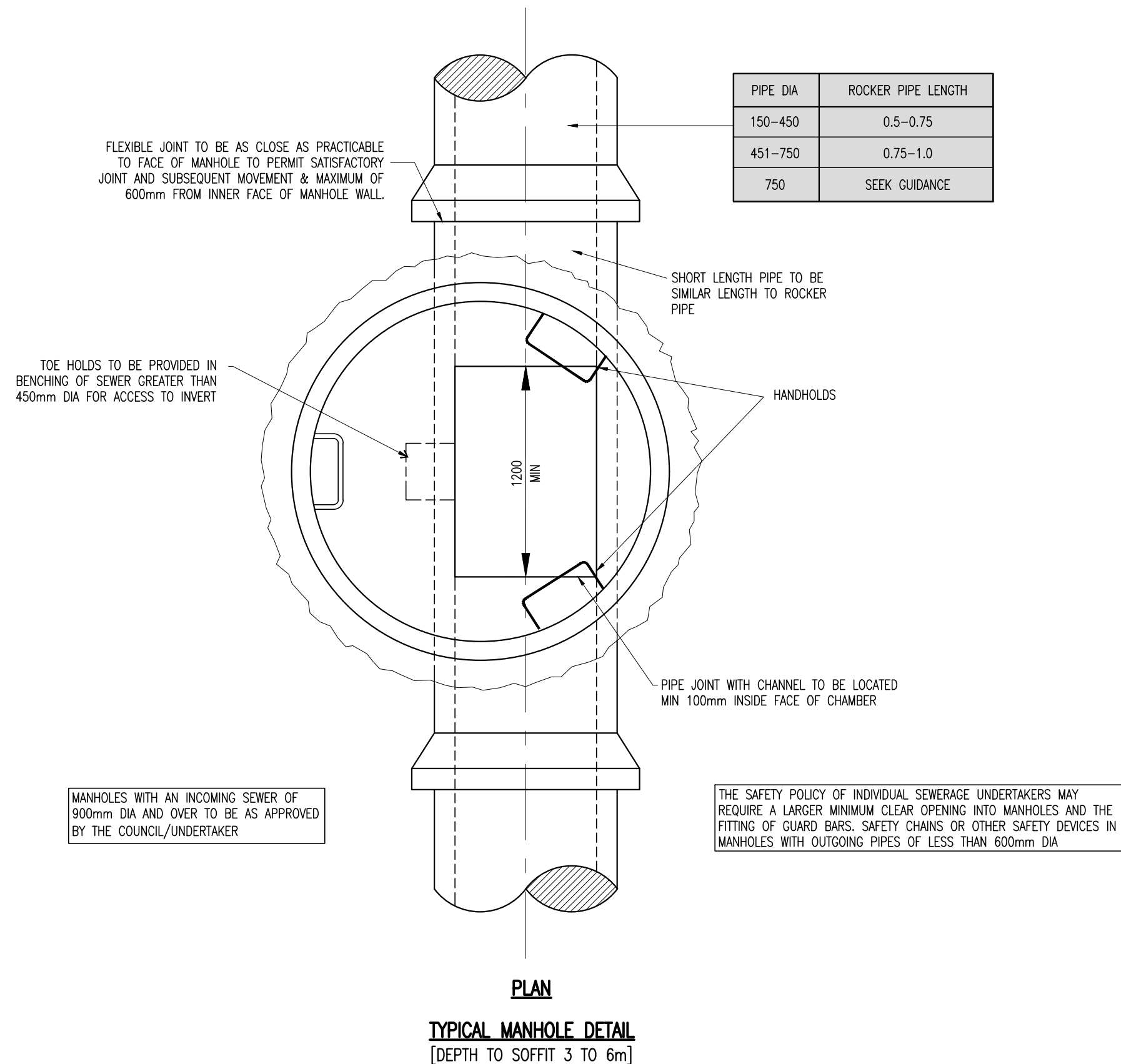
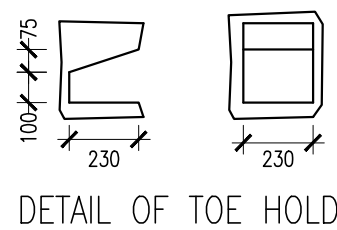




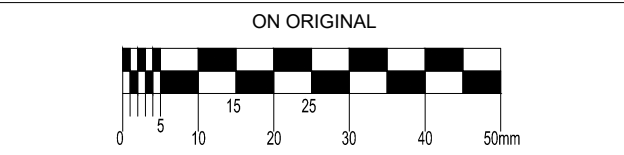
DIAMETER OF LARGEST PIPE IN MANHOLE (mm)	CHAMBER SECTION DIAMETER (mm)		
	1m – 3m	3m – 6m	6m – 12m
LESS THAN 375	1050	1050	1050
<600	1200	1200	1500
<675	1350	1350	1500
<750	1350	1500	1500
<900	1500	1500	1500
<1200	2100	2100	2100

TABLE 1



PIPE DIA	ROCKER PIPE LENGTH
150-450	0.5-0.75
451-750	0.75-1.0
750	SEEK GUIDANCE

PIPE DIA	ROCKER PIPE LENGTH
150-450	0.5-0.75
451-750	0.75-1.0
750	SEEK GUIDANCE



© COPYRIGHT OF THIS DRAWING IS RESERVED BY DBFL CONSULTING ENGINEERS. NO PART SHALL BE REPRODUCED OR TRANSMITTED WITHOUT THEIR WRITTEN PERMISSION.

NO CHANGES OF WHATSOEVER NATURE ARE TO BE MADE TO ANY DETAILS SET OUT OR CONTAINED IN ANY DBFL SPECIFICATIONS OR DRAWINGS UNLESS THE EXPRESS CONSENT HAS BEEN OBTAINED IN ADVANCE, IN WRITING, FROM DBFL.

NOTES:

2. RIGID BACK SHALL MEAN CAST OR SPRUN LINER, CONCRETE OR CLAY.
3. FLEXIBLE PIPE SHALL MEAN PIPES OF STEEL, PLASTIC, OR OTHER PLASTIC OR DUCTILE RIGID MATERIAL.
4. CONCRETE CLOSURE TO HAVE MAXIMUM $\times 50$ mm WITH A MINIMUM GRAIN SIZE OF 280 μ m; MAXIMUM COVER OF 0.45 AND SLUMP CLASS 32.
5. CLOSURE CONCRETE TO HAVE A MINIMUM AMBIENT CURE OF 28 days.
6. MAXIMUM INTERVENING DISTANCE BETWEEN CLOSURES SHALL BE 100m.
7. FOR DETAILS OF TRENCH REINSTATEMENT TO PRESS IN THE VOLUME OF BUILDINGS, WALLS & FOUNDATION REFER TO STRUCTURAL DRAININGS.
8. ALL PIPES WITH LESS THAN 12cm COVER UNDER GRASSED AREAS AND UNPAVED AREAS SHALL BE PROTECTED BY 150mm THICK CONCRETE OR 150mm THICK LEAMING SLAB TO TRENCHES IN EXISTING ROADS. WHERE REQUIRED BY THE LOCAL AUTHORITY TO EXPOSE 30cm OF CONCRETE.
9. ALL DETAILS ARE REFERRED TO RPD.
10. • GREATER DRAINAGE CAPACITY OR PRACTICE FOR DRAINAGE WORKS.
• TRENCH CONSTRUCTION DETAILS
• DOE RECOMMENDATIONS FOR SITE DEVELOPMENT WORKS
• LINDSAY ROADS
• WHERE ROADS OR OTHER HARD TRENCH BORDERS ENCOUNTERED, THE FIGURE DERIVED BY $\pi \times D$ TO BE DOUBLED.
11. GRANULAR BACKFILL MATERIAL TO BE IN COMPLIANCE WITH CLASS 800 FOR GRANULAR MATERIALS AND CLASS 1000 FOR TRENCH BACKFILL. GRANULAR BACKFILL SHOULD BE PLACED UNIFORM ON EITHER SIDE OF THE PIPE IN LAYERS NOT EXCEEDING 150mm EACH LAYER BEING COMPACTED BY HAND TAMPING UNTIL THE PIPE HAS MINIMUM OF 150mm COMPACTED COVER. CARE SHOULD BE TAKEN TO AVOID OVER COMPACTING THE BACKFILL. DO NOT DISPLACE THE PIPE FROM ITS CORRECT LEVEL AND LEVEL. SUBSEQUENT LAYERS OF GRANULAR RILL TO BE WELL COMPACTED IN 150mm THICK LAYERS TO THE SURFACE OF THE ROAD OR PAVED AREA. WHERE MECHANICAL COMPACTION EQUIPMENT SHOULD NOT BE USED UNTIL THERE IS A MINIMUM OF 450mm COMPACTED COVER OVER THE CROWN OF THE PIPE.
12. SELECTED RILL TO BE FREE FROM STONES LARGER THAN 150mm CUBES OF COVER 150mm. GRASS, WEEDS AND VEGETABLE OR FOREIGN MATTER. SELECTED RILL SHOULD BE PLACED UNIFORM ON EITHER SIDE OF THE PIPE IN LAYERS NOT EXCEEDING 150mm EACH LAYER BEING COMPACTED BY HAND TAMPING UNTIL THE PIPE HAS MINIMUM OF 150mm COMPACTED COVER. CARE SHOULD BE TAKEN TO AVOID OVER COMPACTING THE BACKFILL. DO NOT DISPLACE THE PIPE FROM ITS CORRECT LEVEL AND LEVEL. SUBSEQUENT SELECTED RILL CAN BE PLACED AND COMPACTED IN 150mm THICK LAYERS.
13. GRANULAR BACKFILL MATERIAL TO BE IN COMPLIANCE WITH CLASS 800 FOR GRANULAR MATERIALS AND CLASS 1000 FOR TRENCH BACKFILL. GRANULAR BACKFILL SHOULD BE PLACED IN LAYERS NOT EXCEEDING 150mm EACH LAYER BEING COMPACTED BY HAND TAMPING UNTIL THE PIPE HAS MINIMUM OF 150mm COMPACTED COVER. CARE SHOULD BE TAKEN TO AVOID OVER COMPACTING THE BACKFILL. DO NOT DISPLACE THE PIPE FROM ITS CORRECT LEVEL AND LEVEL. SUBSEQUENT LAYERS OF GRANULAR RILL TO BE WELL COMPACTED IN 150mm THICK LAYERS TO THE SURFACE OF THE ROAD OR PAVED AREA. WHERE MECHANICAL COMPACTION EQUIPMENT SHOULD NOT BE USED UNTIL THERE IS A MINIMUM OF 450mm COMPACTED COVER OVER THE CROWN OF THE PIPE.
14. TRENCH ABOVE PIPES TO BE FREE WITH 750mm COVER TO BE BACKFILLED WITH CLASS 32 CONCRETE TO REINSTATE ORIGINAL LEVEL.
15. SURFACING TO BE IN ACCORDANCE WITH THE ROAD SPECIFICATION AND, IF APPROPRIATE, LOCAL AUTHORITY REQUIREMENTS.
16. 16.1. IN CLASS 32 CONCRETE TO BE PLACED IN 150mm THICK LAYERS TO THE SURFACE OF THE ROAD OR PAVED AREA. WHERE MECHANICAL COMPACTION EQUIPMENT SHOULD NOT BE USED UNTIL THERE IS A MINIMUM OF 450mm COMPACTED COVER OVER THE CROWN OF THE PIPE.

NOTE:
ALL WORKS & SPECIFICATIONS TO BE
UNDERTAKEN IN ACCORDANCE WITH

- TII SPECIFICATION FOR ROADWORKS
- RECOMMENDATIONS FOR SITE DEVELOPMENT WORKS

NOTE:
FOR WATERMAIN DETAILS REFER TO
IRISH WATER CONNECTION
AGREEMENT & IRISH WATER 'WATER
INFRASTRUCTURE STANDARD
DETAILS' & CODE OF PRACTICE

NOTE:
FOR DETAILS OF FOUL SEWER MANHOLES
REFER TO IRISH WATER CONNECTION
AGREEMENT & IRISH WATER
'WASTEWATER INFRASTRUCTURE
STANDARD DETAILS' & CODE OF PRACTICE

P02	05/04/22	PLANNING SUBMISSION	MWM	VE
P01	28/03/22	FOR PLANNING	MWM	VE
rev	date	description	by	chkd.
client approval		A - Approved		
		B - Approved with comments		
		C - Do not use		

S2 - INFORMATION	issue purpose PLANNING
------------------	---------------------------



DBFL Consulting Engineers
Civil, Structural & Transportation Engineering
www.dbfl.ie

DUBLIN OFFICE: Ormond House, Upper Ormond Quay, Dublin 7, D07 W704
PHONE +353 1 400 4000

CORK OFFICE: 14 South Mall, Cork, T12 CT91
PHONE +353 21 2024538

WATERFORD OFFICE: Suite 8b The Atrium, Marisara Gate, Canada Street, Waterford, X91 W028
PHONE +353 51 309 500

project ref.

HEADFORD ROAD HOUSING,
GALWAY

drawing title

SURFACE WATER STANDARD
DETAILS-SHEET 1

client

GALWAY CITY COUNCIL

designed by MWM	author BC	scale AS SHOWN	sheet size A1
drawing no. 190048-DBFL-SW-SP-DR-C-5011			revision P02