

On behalf of

DAISY BANK MILL MANAGEMENT COMPANY LTD

Drainage Asset Management Plan

Report Ref: D246/KGB/001
Rev 01

DOCUMENT ISSUE RECORD

Issue Date	Issue No	Purpose of Issue	Originator	Checked	Approved
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Amendments: To assist in identifying the amendments in the revised issue of this document, a vertical line is displayed in the left margin, adjacent to the revised text, applicable to this current issue only.



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1.0 EXECUTIVE SUMMARY

The following document describes the outline Drainage Management & Maintenance Plan for works associated with the development of 18 residential dwellings on Terence Street, Manchester, formerly known as Daisy Bank Mill and has been produced to ensure that that a suitable level of maintenance is undertaken.

An appropriate level of maintenance will ensure that surface and foul water is not discharged from the site except to the designed drainage system, the risk of flooding is minimised, and the drainage systems and associated devices perform in accordance with the drainage design.

This document has been prepared for the use of Daisy Bank Mill Management Company Ltd in connection with this project. It is not intended for and should not be relied upon by any other third parties.

2.0 INTRODUCTION

KGB Infrastructure has been commissioned by Daisy Bank Mill Management Company Ltd to produce a drainage asset management plan for their housing development in Terence Street, Manchester.

This proposed management plan is to assist the management company in maintaining the foul and surface water drainage assets within the site.

The objectives of this management & maintenance plan are to:

- To maintain existing drainage assets.
- To minimise the risk of flooding.
- To ensure the drainage assets perform in accordance with the drainage design.
- To ensure surface water is only discharged from the site via the designated connection to the public sewer system, as agreed with United Utilities.

This maintenance & management plan should be read in conjunction with drawing numbers:

- D246-KGB-00-XX-DR-D-0500-AB1_Terence Street_Proposed Drainage SW Layout
- D246-KGB-00-XX-DR-D-0501-AB1_Terence Street_Proposed Foul Drainage Layout
- D246-KGB-00-XX-DR-D-0502-AB1_Terence Street_Drainage Schedules
- D246-KGB-00-XX-DR-D-0505-C01_Terence Street_Drainage Details Sheet 1
- D246-KGB-00-XX-DR-D-0506-C01_Terence Street_Drainage Details Sheet 2
- D246-KGB-00-XX-DR-D-0507-C01_Terence Street_Drainage Details Sheet 3

3.0 MAINTENANCE OF SURFACE WATER DRAINAGE SYSTEM

Daisy Bank Mill Management Company Ltd will possess the primary responsibility for overseeing and implementing the Management and Maintenance Plan, it will designate, where required, a person, or organisation, who will be responsible for the proper operation and maintenance of the Surface Water Drainage system.

This Management and Maintenance Plan shall be implemented to ensure that the Surface Water Drainage system functions as designed (in accordance with, Sewers for Adoption 7th Edition, Design Manual for Roads and Bridges and where applicable CIRIA C753 'The SuDS Manual' v2 2015).

This plan is intended to cover all on-site drainage systems, structures and associated installations connected to the system.

The drainage systems associated with the site shall remain in private ownership and maintenance of the systems will remain the responsibility of the Daisy Bank Mill Management Company Ltd.

In case of transfer of ownership, future owners shall be notified of the Surface Water Management system, and the requirements for proper implementation of the Management and Maintenance Plan.

4.0 MAINTENANCE PROGRAMME

Maintenance staff will conduct the operation and maintenance program shown in this document. The Manager will ensure that inspection and record keeping are timely and accurate and that cleaning and maintenance are performed as scheduled (Tables 1 & 2). It should also be ensured that maintenance works are undertaken alongside the implementation of suitable systems to ensure the protection of any downstream drainage systems. An Inspection and Maintenance Log shall be kept, to include records of the date of inspection, physical condition of the structures, depth of any sediment, any evidence of overtopping or debris blockage and maintenance required or performed on each structure/system. Where maintenance activities are unclear or additional guidance is required consult CIRIA C753 - The SuDS Manual, v2 2015.

Table 1 - Maintenance Schedule: FOUL WATER DRAINAGE

ELEMENT	REQUIRED ACTION	FREQUENCY
Manhole/ Chambers	Inspection	Quarterly
	Cleaning	Quarterly
	Replacement	As Required
Pipe Work	CCTV Inspection	As Required
	Jetting / Rodding	As Required
	Replacement	As Required

Table 2 - Maintenance Schedule: STORM WATER DRAINAGE

ELEMENT	REQUIRED ACTION	FREQUENCY
Surrounding Areas / Surfaces	Litter and Debris Collection	Fortnightly
	Surface Sweeping	Quarterly
Manholes / Chambers	Inspection	Quarterly
	Cleaning	Quarterly
	Replacement	As Required
Pipe Work	CCTV Inspection	As Required
	Jetting / Rodding	As Required
	Replacement	As Required
Gullies	Inspection	Quarterly
	Jetting / Rodding	Yearly / As Required
	Replacement	As Required
Hydrobrake / Flow Control	Inspection	Monthly
	Cleaning, Removal of Silt	Quarterly / As Required
	Replacement	As Required
Attenuation Tank / Pipe	Inspection	Monthly for first 3 months Annually after 3 months 48 hours after large storms
	Internal Tank Survey	Every 5 years / As Required
	Removal of sediment	Yearly / As Required
	Repair / Replacement	As Required
Permeable Parking Areas	Inspection	Quarterly / As Required
	Cleaning, Removal of Silt	Quarterly / As Required
	Repair / Replacement	As required

Table 3 - Anticipated Design Life of Key Drainage Elements

ELEMENT	ANTICIPATED DESIGN LIFE
Concrete Pipes, Gullies and Manholes / Chambers	120 years
Plastic Pipes, Gullies and Manholes / Chambers	50+ years
Cellular attenuation features / attenuation pipes	50+ years
Flow Controls, stainless steel	50+ years
Permeable parking bays	20+ years



5.0 APPENDICES

- APPENDIX A - DRAINAGE LAYOUT DRAWINGS & MANHOLE / PIPE SCHEDULES
- APPENDIX B - DRAINAGE STANDARD DETAILS



APPENDIX A

Drainage Layout Drawings & Manhole / Pipe Schedules

KEY

NEW SW MANHOLE

NEW SW DRAIN

NEW SW INSPECTION CHAMBER

PROPOSED RAIN WATER PIPE (RWP) & CONNECTION

NEW SOIL VENTILATION PIPE (SVP) & CONNECTION

PROPOSED FOUL MANHOLE

PROPOSED FOUL INSPECTION CHAMBER

PROPOSED FOUL DRAIN

PROPOSED BACKDROP ON FOUL DRAIN

PROPOSED DEMARCATION CHAMBER ON EXISTING OUTFALL

PROPOSED ROAD GULLY

PROPOSED PERMEABLE PAVING TO PARKING AREA

PROPOSED PERMEABLE PAVING SUMP & OUTFALL

NEW SW MANHOLE

NEW SW DRAIN

NEW SW INSPECTION CHAMBER

PROPOSED RAIN WATER PIPE (RWP) & CONNECTION

NEW SOIL VENTILATION PIPE (SVP) & CONNECTION

PROPOSED FOUL MANHOLE

PROPOSED FOUL INSPECTION CHAMBER

PROPOSED FOUL DRAIN

PROPOSED BACKDROP ON FOUL DRAIN

PROPOSED DEMARCATION CHAMBER ON EXISTING OUTFALL

PROPOSED ROAD GULLY

PROPOSED PERMEABLE PAVING TO PARKING AREA

PROPOSED PERMEABLE PAVING SUMP & OUTFALL

Porous Paving B2		
Dimensions		
Exceedance Level (m)		86.138
Depth (m)		0.300
Base Level (m)		85.838
Paving Layer Depth (mm)		100
Membrane Percolation (m/hr)		0.01
Porosity (%)		30
Length (m)		5.992
Long. Slope (1:X)		500.00
Width (m)		5.997
Total Volume (m³)		2.230

AS-BUILT PHOTOGRAPHS

FLOW CONTROL CHAMBER

POROUS PAVING PARKING SPACE

FLOW-CONTROL DETAILS

Outlet

Invert Level (m)

Design Depth (m)

Design Flow (L/s)

Objective

Application

Requirements

Surface Water Only

Sump Available

Unit Reference

84.583

1.000

4.8

Minimise Upstream Storage

Surface Water Only

✓

SHE-0103-4800-1000-4800

Hydro-Brake®

1.008

84.583

1.000

4.8

Depth (m)

Flow (L/s)

1.2

1

0.8

0.6

0.4

0.2

0

0

1

2

3

4

5

GENERAL

- ALL DIMENSIONS IN MILLIMETRES UNLESS STATED OTHERWISE.
- ALL LEVELS AND DATUMS IN METRES UNLESS STATED OTHERWISE.
- ALL DIMENSIONS, LEVELS AND DATUMS TO BE CONFIRMED ON SITE, PRIOR TO FABRICATION AND CONSTRUCTION.
- ALL BUILDING WORKS TO BE CARRIED OUT IN ACCORDANCE WITH THE BUILDING REGULATIONS AND THE CIVIL, STRUCTURAL AND ARCHITECTURAL SPECIFICATIONS..
- ALL EXTERNAL WORKS TO BE CARRIED OUT IN ACCORDANCE WITH THE SPECIFICATION FOR HIGHWAY WORKS.
- ROAD MARKINGS TO BE WHITE THERMOPLASTIC SCREEN IN ACCORDANCE WITH TRAFFIC SIGNS REGULATIONS & GENERAL DIRECTION OF TRAFFIC.
- EXISTING AND PROPOSED PAVING TO BE CONSTRUCTED IN LAYERS IN ACCORDANCE WITH SPECIFICATION FOR HIGHWAY WORKS.
- WHERE REQUIRED, EDGE OF CARRIAGEWAY REINSTATEMENT SHALL BE AGREED WITH LOCAL HIGHWAY AUTHORITY ENGINEER PRIOR TO COMPLETION.
- EXISTING 3D SURFACE MODEL PRODUCED FROM TOPOGRAPHICAL SURVEY, DATED AUGUST 2012.
- EXISTING TOPOGRAPHICAL SURVEY SHIFTED TO ORDNANCE SURVEY COORDINATES, THEN RAISED TO TEXT LEVELS.
- FINISHED FLOOR LEVELS TAKEN FROM 04 JUNE, DOCUMENT 132 AND ADJUSTED TO TIE IN TO TOPOGRAPHICAL SURVEY LEVELS. BLOCK E TBM WAS ASSUMED 100m AOD, NEW BLOCK E REDUCED LEVEL IS 85.838m AOD, NEW BLOCK F REDUCED LEVEL IS 85.838m AOD, NEW BLOCK G REDUCED LEVEL IS 85.838m AOD.
- PROPOSED LAYOUT TAKEN FROM LES FOEY DRAWING, DATED APRIL 2016.
- FOR DIMENSIONS OF ALL OTHER PERMEABLE PARKING BAYS, REFER TO INFODRAINAGE MODELING RESULTS.
- CONNECTION TO THE PUBLIC SEWER SHALL BE SUBJECT TO A SECTION 106 AGREEMENT WITH UNITED UTILITIES.
- HYDROBRAKE CHAMBER AND CELLULAR STORAGE SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
- PEAK DISCHARGE HAS BEEN RESTRICTED TO 4.8 L/S IN ACCORDANCE WITH SUSTAINABLE DRAINAGE DESIGN (SUDS) GUIDANCE (PD624 1029) DATED FEBRUARY 2024.
- MAINTENANCE OF DRAINAGE INFRASTRUCTURE TO BE UNDERTAKEN IN ACCORDANCE WITH DMRB GUIDANCE AND MANUFACTURER'S RECOMMENDATIONS.

TO BE READ IN CONJUNCTION WITH DRAWING NUMBERS:-

D246-KGB-00-XX-DR-D-0501
PROPOSED DRAINAGE
FOUL DRAINAGE LAYOUT

D246-KGB-00-XX-DR-D-0502
PROPOSED DRAINAGE
MANHOLE & PIPE SCHEDULES

D246-KGB-00-XX-DR-D-0503
PROPOSED DRAINAGE LONG-SECTIONS
SHE ET 1 OF 2

D246-KGB-00-XX-DR-D-0504
PROPOSED DRAINAGE LONG-SECTIONS
SHEET 2 OF 2

D246-KGB-00-XX-DR-D-0505
PROPOSED DRAINAGE
STANDARD DETAILS, SHEET 1 OF 3

D246-KGB-00-XX-DR-D-0506
PROPOSED DRAINAGE
STANDARD DETAILS, SHEET 2 OF 3

D246-KGB-00-XX-DR-D-0507
PROPOSED DRAINAGE
STANDARD DETAILS, SHEET 3 OF 3

JOB TITLE			CLIENT					
TERENCE STREET, NEWTON HEATH			SPLASH DEVELOPMENTS LTD					
DRAWING TITLE								
PROPOSED DRAINAGE SURFACE WATER LAYOUT								
SCALE	DRAWN BY	DATE	DRAWING No	REVISION				
1:200 @ A1	KB	21/07/2024	D246-KGB-00-XX-DR-D-0500	AB1				

GENERAL

- ALL DIMENSIONS IN MILLIMETRES UNLESS STATED OTHERWISE.
- ALL LEVELS AND DATUMS IN METRES UNLESS STATED OTHERWISE.
- ALL DIMENSIONS, LEVELS AND DATUMS TO BE CONFIRMED ON SITE, PRIOR TO FABRICATION AND CONSTRUCTION.
- ALL BUILDING WORKS TO BE CARRIED OUT IN ACCORDANCE WITH THE BUILDING REGULATIONS AND THE CIVIL STRUCTURAL AND ARCHITECTURAL SPECIFICATIONS.
- ALL EXTERNAL WORKS TO BE CARRIED OUT IN ACCORDANCE WITH THE SPECIFICATION FOR HIGHWAY WORKS.
- ROAD MARKINGS TO BE WHITE THERMOPLASTIC SCREEN IN ACCORDANCE WITH TRAFFIC SIGNS REGULATIONS & GENERAL DIRECTIONS 2016.
- BOND COAT SHALL BE APPLIED BETWEEN CONSTRUCTION LAYERS IN ACCORDANCE WITH SPECIFICATION FOR HIGHWAY WORKS.
- WHERE REQUIRED, EDGE OF CARRIAGEWAY REINSTATEMENT SHALL BE AGREED WITH LOCAL HIGHWAY AUTHORITY ENGINEER PRIOR TO COMPLETION.
- EXISTING 3D SURFACE MODEL PRODUCED FROM TOPOGRAPHICAL SURVEY, DATED AUGUST 2012.
- EXISTING PROPOSED SURVEY SHIFTS TO PROPOSED SURVEY COORDINATES, THEN RAISED TO TEXT LEVELS.
- FINISHED FLOOR LEVELS TAKEN FROM 04 JUNE, DOCUMENT 132 AND ADJUSTED TO TIE IN TO TOPOGRAPHICAL SURVEY LEVELS. (BLOCK E TBM WAS ASSUMED 100m AOD. NEW BLOCK E REDUCED LEVEL IS 87.000m AOD. ALL OTHER LEVELS RELATIVE TO NEW BLOCK E REDUCED LEVEL)
- PROPOSED LAYOUT TAKEN FROM LES FDEY DRAWING, DATED APRIL 2016.
- INVERT LEVELS OF EXISTING ADOPTED DRAINAGE TO BE CONFIRMED ON SITE PRIOR TO CONSTRUCTION AND ANY DISCREPANCIES REPORTED TO THE ENGINEER.
- MANUFACTURE OF STRUCTURE TO BE UNDERTAKEN IN ACCORDANCE WITH DMFB GUIDANCE AND MANUFACTURER'S RECOMMENDATIONS.

TO BE READ IN CONJUNCTION WITH DRAWING NUMBERS:-

D246-KGB-00-XX-DR-D-0500
PROPOSED DRAINAGE
SURFACE WATER DRAINAGE LAYOUT

D246-KGB-00-XX-DR-D-0502
PROPOSED DRAINAGE
MANHOLE & PIPE SCHEDULES

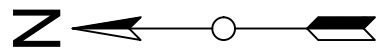
D246-KGB-00-XX-DR-D-0503
PROPOSED DRAINAGE LONG-SECTIONS
SHE ET 1 OF 2

D246-KGB-00-XX-DR-D-0504
PROPOSED DRAINAGE LONG-SECTIONS
SHEET 2 OF 2

D246-KGB-00-XX-DR-D-0505
PROPOSED DRAINAGE
STANDARD DETAILS, SHEET 1 OF 3

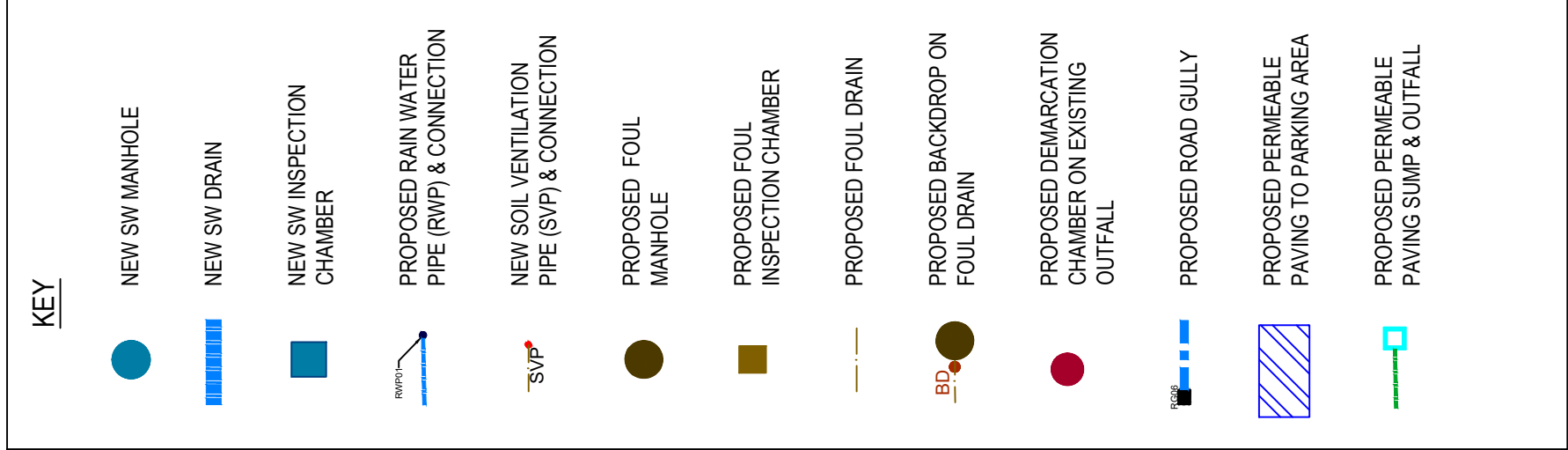
D246-KGB-00-XX-DR-D-0506
PROPOSED DRAINAGE
STANDARD DETAILS, SHEET 2 OF 3

D246-KGB-00-XX-DR-D-0507
PROPOSED DRAINAGE
STANDARD DETAILS, SHEET 3 OF 3



TERENCE STREET

PROPOSED CELLULAR STORAGE CRATES
REPLACED WITH 825mm DIAMETER PIPE
(INFODRAINAGE MODELING RESULTS
UPDATED TO REFLECT AS-BUILT STATUS)



KGB Infrastructure

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JOB TITLE
TERENCE STREET, NEWTON HEATH

CLIENT

SPLASH DEVELOPMENTS LTD

**PROPOSED DRAINAGE
FOUL DRAINAGE LAYOUT**

DRAWING TITLE

SCALE
1:200 @ A1

DRAWN BY
KB

DATE

21/07/2024

DRAWING No

D246-KGB-00-XX-DR-D-0501

REVISION

AB1

REV	DESCRIPTION	DRAWN	INITIALS	DATE	Dwg STATUS	CHECKED BY	DATE
P01	ISSUED FOR INFORMATION	CIVIL 3D	KB	16/08/24	Preliminary	KB	16/08/24
P02	REVISED INVERT LEVELS UP/ST OF F1.004 ISSUED FOR INFORMATION	CIVIL 3D	KB	19/08/24	Preliminary	KB	19/08/24
C01	ISSUED FOR CONSTRUCTION FOLLOWING DISCHARGE OF PLANNING CONDITION 5	CIVIL 3D	KB	23/10/24	Construction	KB	23/10/24
AB1	AS-BUILT DRAWING, ISSUED FOR INFORMATION.	CIVIL 3D	KB	19/01/26	As-built	KB	19/01/26

Proposed SW - Pipe Table					
Pipe Name	Size (mm)	Plan Length (m)	Slope	Start Invert Level	End Invert Level
1.000	150	13.586	1:100	86.085	85.929
1.001	150	14.861	1:100	85.929	85.780
1.002	225	12.348	1:33	85.705	85.335
1.003	675	15.961	1:79	84.885	84.682
1.004	675	3.343	1:304	84.682	84.671
1.005	675	14.738	1:301	84.671	84.622
1.006	675	14.794	1:379	84.622	84.583
1.007	825	9.779	1:611	84.589	84.583
1.008	225	6.290	1:41	84.553	84.401
1.009	150	8.057	1:97	84.401	84.318
2.000	100	8.690	1:17	85.774	85.248
3.000	150	11.469	1:104	85.450	85.340
3.001	150	17.261	1:100	85.340	85.167
3.002	225	11.221	1:150	85.092	85.017
4.000	150	7.229	1:13	85.647	85.092
5.000	150	9.463	1:86	85.500	85.390
6.000	100	8.933	1:81	85.500	85.390
7.000	150	9.181	1:41	85.400	85.175
8.000	150	9.541	1:13	85.700	84.975
9.000	300	8.705	1:198	84.945	84.901
9.001	300	15.164	1:200	84.751	84.671
9.002	450	15.787	1:298	84.675	84.622
10.000	150	8.016	1:7	86.090	84.977
11.000	825	18.685	1:76	84.958	84.711
11.001	825	16.564	1:200	84.711	84.628
11.002	825	9.981	1:200	84.628	84.583
12.000	150	2.876	1:6	85.300	84.778
13.000	150	8.898	1:59	85.800	85.650
13.001	150	2.863	1:3	85.650	84.824

Proposed Foul - Pipe Table				
Pipe Name	Size (mm)	Plan Length (m)	Slope	Start Invert Level
F1.000	100	5.538	1:40	86.210
F1.001	100	14.157	1:40	86.070
F1.002	100	15.159	1:80	85.715
F1.003	100	11.074	1:80	85.526
F1.004	150	20.754	1:97	85.388
F1.005	150	7.527	1:31	84.705
F1.006	100	6.979	1:24	86.000
F2.000	100	5.726	1:12	86.200
F3.000	100	7.279	1:11	86.200
F4.000	100	6.998	1:10	86.200
F5.000	100	6.735	1:34	86.000
F6.001	100	12.599	1:30	85.800
F7.000	100	6.561	1:19	86.000
F8.000	100	8.111	1:11	86.000
F9.000	100	5.431	1:39	85.470
F9.001	100	10.696	1:40	85.330
F9.002	100	7.801	1:74	85.060
F9.003	100	11.611	1:75	84.955
F9.004	100	7.298	1:77	84.800
F10.000	100	6.035	1:25	85.300
F11.000	100	5.735	1:17	85.300
F12.000	100	5.659	1:16	85.300
F13.000	100	6.430	1:39	84.985
F14.001	100	9.490	1:41	85.580
F14.002	100	8.714	1:96	85.350
F15.000	100	6.130	1:9	86.000
F16.000	100	1.778	1:4	85.000

Proposed SW - Structure Table					
Structure Name	Diameter	Depth	Cover Level	Easting	Nothing
Ex. MH1	1.050m	1.781m	86.181	388623.197	400175.286
IC01	0.600m	0.864m	86.729	388688.018	400124.217
IC01A	0.600m	0.779m	86.708	388672.506	400122.801
IC01B	0.600m	1.135m	86.840	388657.730	400121.214
IC02	0.600m	1.300m	87.074	388636.751	400120.061
IC03A	0.600m	0.931m	86.381	388685.631	400137.327
IC03B	0.600m	1.163m	86.503	388674.062	400137.227
IC03C	0.600m	1.068m	86.760	388658.809	400136.694
IC04	0.600m	1.260m	86.907	388638.404	400135.404
IC10	0.600m	0.529m	86.619	388635.201	400153.286
IC13A	0.600m	0.707m	86.507	388631.735	400166.547
IC13B	0.600m	0.787m	86.437	388640.632	400166.700
MH01C	1.050m	2.093m	86.978	388645.441	400120.002
MH01D	1.500m	2.154m	86.836	388645.612	400135.962
MH01E	1.500m	2.096m	86.707	388643.484	400138.541

Proposed SW - Structure Table					
Structure Name	Diameter	Depth	Cover Level	Easting	Nothing
IC01	0.600m	0.861m	86.681	388687.135	400135.973
IC02	0.180m	1.013m	86.728	388672.984	400135.525
IC03	0.180m	1.365m	86.891	388657.856	400134.561
IC05	0.180m	1.250m	86.850	388634.430	400133.997
IC06	0.180m	0.616m	85.946	388688.033	400154.946
IC07	0.180m	1.074m	86.134	388677.338	400154.777
IC08	0.180m	1.204m	86.159	388669.538	400154.720
IC09	0.180m	1.564m	86.364	388657.927	400154.635
IC11	1.050m	1.203m	86.553	388641.916	400154.816
IC12	0.180m	1.417m	86.767	388632.430	400154.548
IC13	0.180m	1.855m	86.320	388650.554	400162.200
FWMH01 (DC)	0.180m	0.611m	86.045	388650.783	400168.487
FWMH02	1.050m	1.723m	86.428	388650.629	400154.673
FWMH03	1.050m	1.625m	86.913	388646.786	400134.278
SVP-A1	0.180m	0.611m	86.611	388641.307	400160.916

Proposed SW - Structure Table					
Structure Name	Diameter	Depth	Cover Level	Easting	Nothing
Ex. MH1	1.050m	1.781m	86.181	388623.197	400175.286
IC01	0.600m	0.864m	86.729	388688.018	400124.217
IC01A	0.600m	0.779m	86.708	388672.506	400122.801
IC01B	0.600m	1.135m	86.840	388657.730	400121.214
IC02	0.600m	1.300m	87.074	388636.751	400120.061
IC03A	0.600m	0.931m	86.381	388685.631	400137.327
IC03B	0.600m	1.163m	86.503	388674.062	400137.227
IC03C	0.600m	1.068m	86.760	388658.809	400136.694
IC04	0.600m	1.260m	86.907	388638.404	400135.404
IC10	0.600m	0.529m	86.619	388635.201	400153.286
IC13A	0.600m	0.707m	86.507	388631.735	400166.547
IC13B	0.600m	0.787m	86.437	388640.632	400166.700
MH01C	1.050m	2.093m	86.978	388645.441	400120.002
MH01D	1.500m	2.154m	86.836	388645.612	400135.962
MH01E	1.500m	2.096m	86.707	388643.484	400138.541

Proposed SW - Structure Table					
Structure Name	Diameter	Depth	Cover Level	Easting	Nothing
IC01	0.180m	0.611m	86.681	388687.135	400135.973
IC02	0.180m	1.013m	86.728	388672.984	400135.525
IC03	0.180m	1.365m	86.891	388657.856	400134.561
IC05	0.180m	1.250m	86.850	388634.430	400133.997
IC06	0.180m	0.616m	85.946	388688.033	400154.946
IC07	0.180m	1.074m	86.134	388677.338	400154.777
IC08	0.180m	1.204m	86.159	388669.538	400154.720
IC09	0.180m	1.564m	86.364	388657.927	400154.635
IC11	1.050m	1.203m	86.553	388641.916	400154.816
IC12	0.180m	1.417m	86.767	388632.430	400154.548
IC13	0.180m	1.855m	86.320	388650.554	400162.200
FWMH01 (DC)	0.180m	0.611m	86.045	388650.783	400168.487
FWMH02	1.050m	1.723m	86.428	388650.629	400154.673
FWMH03	1.050m	1.625m	86.913	388646.786	400134.278
SVP-A1	0.180m	0.611m	86.611	388641.307	400160.916

Proposed SW - Structure Table					
Structure Name	Diameter	Depth	Cover Level	Easting	Nothing
IC01	0.180m	0.611m	86.681	388687.135	400135.973
IC02	0.180m	1.013m	86.728	388672.984	400135.525
IC03	0.180m	1.365m	86.891	388657.856	400134.561
IC05	0.180m	1.250m	86.850	388634.430	400133.997
IC06	0.180m	0.616m	85.946	388688.033	400154.946
IC07	0.180m	1.074m	86.134	388677.338	400154.777
IC08	0.180m	1.204m	86.159	388669.538	400154.720
IC09	0.180m	1.564m	86.364	388657.927	400154.635
IC11	1.050m	1.203m	86.553	388641.916	400154.816
IC12	0.180m	1.417m	86.767	388632.430	400154.548
IC13	0.180m	1.855m	86.320	388650.554	400162.200
FWMH01 (DC)	0.180m	0.611m	86.045	388650.783	400168.487
FWMH02	1.050m	1.723m	86.428	388650.629	400154.673
FWMH03	1.050m	1.625m	86.913	388646.786	400134.278
SVP-A1	0.180m	0.611m	86.611	388641.307	400160.916

Proposed SW - Structure Table					
Structure Name	Diameter	Depth	Cover Level	Easting	Nothing
IC01	0.180m	0.611m	86.681	388687.135	400135.973
IC02	0.180m	1.013m	86.728	388672.984	400135.525
IC03	0.180m	1.365m	86.891	388657.856	400134.561
IC05	0.180m	1.250m	86.850	388634.430	400133.997
IC06	0.180m	0.616m	85.946	388688.033	400154.946
IC07	0.180m	1.074m	86.134	388677.338	400154.777
IC08	0.180m	1.204m	86.159	388669.538	400154.720
IC09	0.180m	1.564m	86.364	388657.927	400154.635
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IC13	0.180m	1.855m	86.320	388650.554	400162.200
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SVP-A1	0.180m	0.611m	86.611	388641.307	400160.916

Proposed SW - Structure Table					
Structure Name	Diameter	Depth	Cover Level	Easting	Nothing
IC01	0.180m	0.611m	86.681	388687.135	400135.973
IC02	0.180m	1.013m	86.728	388672.984	400135.525
IC03	0.180m	1.365m	86.891	388657.856	400134.561
IC05	0.180m	1.250m	86.850	388634.430	400133.997
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IC09	0.180m	1.564m	86.364	388657.927	400154.635
IC11	1.050m	1.203m	86.553	388641.916	400154.816
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FWMH01 (DC)	0.180m	0.611m	86.045	388650.783	400168.487
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FWMH03	1.050m	1.625m	86.913	388646.786	400134.278
SVP-A1	0.180m	0.611m	86.611	388641.307	400160.916

Proposed SW - Structure Table					
Structure Name	Diameter	Depth	Cover Level	Easting	Nothing



APPENDIX B

Drainage Standard Details

- GENERAL
1. ALL DIMENSIONS IN MILLIMETRES UNLESS STATED OTHERWISE.

2. ALL LEVELS AND DATUMS IN METRES UNLESS STATED OTHERWISE.

3. ALL DIMENSIONS, LEVELS AND DATUMS TO BE CONFIRMED ON SITE PRIOR TO FABRICATION AND CONSTRUCTION.

4. ALL BUILDING WORKS TO BE CARRIED OUT IN ACCORDANCE WITH THE BUILDING REGULATIONS AND THE CIVIL, STRUCTURAL AND ARCHITECTURAL SPECIFICATIONS..

5. ALL EXTERNAL WORKS TO BE CARRIED OUT IN ACCORDANCE WITH THE SPECIFICATION FOR HIGHWAY WORKS.

6. ROAD MARKINGS TO BE WHITE THERMOPLASTIC SCREEN IN ACCORDANCE WITH TRAFFIC SIGNS REGULATIONS & GENERAL DIRECTIONS 2016.

7. ALL CONSTRUCTION SHALL BE CARRIED OUT BETWEEN CONSTRUCTION LAYERS IN ACCORDANCE WITH SPECIFICATION FOR HIGHWAY WORKS.

8. WHERE REQUIRED EDGE OF CARRIAGEWAY REINSTATEMENT SHALL BE AGREED WITH LOCAL HIGHWAY AUTHORITY ENGINEER PRIOR TO COMPLETION.

9. EXISTING 3D SURFACE MODEL PRODUCED FROM TOPOGRAPHICAL SURVEY DATED AUGUST 2012.

10. EXISTING TOPOGRAPHICAL SURVEY SHIFTED TO ORNANCE SURVEY COORDINATES, THEN RAISED TO TEXT LEVELS.

11. FINISHED FLOOR LEVELS TAKEN FROM 04 JUNE DOCUMENT 132 AND ADJUSTED TO TIE IN WITH TOPOGRAPHICAL SURVEY LEVELS. BLOCK PAVING WORKS SHALL BE CARRIED OUT TO THE REDUCED LEVELS 87'00M AOD. ALL OTHER LEVELS RELATIVE TO NEW BLOCK E REDUCED LEVEL.

12. PROPOSED LAYOUT TAKEN FROM LES FOEY DRAWING DATED APRIL 2016.

10. INVERT LEVELS OF EXISTING ADOPTED DRAINAGE TO BE CONFIRMED ON SITE PRIOR TO CONSTRUCTION AND ANY DISCREPANCIES REPORTED TO THE ENGINEER.
- TO BE READ IN CONJUNCTION WITH DRAWING NUMBERS:-
- D246-KGB-00-XX-DR-D-0500

PROPOSED DRAINAGE

SURFACE WATER LAYOUT
- D246-KGB-00-XX-DR-D-0501

PROPOSED DRAINAGE

FOUL DRAINAGE LAYOUT
- D246-KGB-00-XX-DR-D-0502

PROPOSED DRAINAGE

MANHOLE & PIPE SCHEDULES
- D246-KGB-00-XX-DR-D-0503

PROPOSED DRAINAGE

LONG-SECTIONS

SHEET 1 OF 2
- D246-KGB-00-XX-DR-D-0504

PROPOSED DRAINAGE

LONG-SECTIONS

SHEET 2 OF 2
- D246-KGB-00-XX-DR-D-0505

PROPOSED DRAINAGE

STANDARD DETAILS

SHEET 1 OF 3
- D246-KGB-00-XX-DR-D-0507

PROPOSED DRAINAGE

STANDARD DETAILS

SHEET 3 OF 3

BS EN 1610:1997 ANNEX B TABLE B.15 COARSE AGGREGATE - PIPE BEDDING				
SIEVE SIZE (mm)	PERCENTAGE BY MASS PASSING BS SIEVES FOR NOMINAL SIZES			
	GRADED AGGREGATE (mm)	SINGLE-SIZED AGGREGATE (mm)		
	40 to 5	20 to 5	14 to 5	14
50.0	100	-----	100	-----
37.5	90 - 100	100	85 - 100	100
20.0	35 - 70	90 - 100	0 - 25	85 - 100
14.0	-----	90 - 100	-----	85 - 100
10.0	10 - 40	30 - 60	50 - 85	0 - 50
5.0	0 - 5	0 - 10	0 - 10	0 - 10
2.36	-----	-----	-----	-----
				0 - 5

RIGID PIPES BEDDING GRADING

BASED ON BS EN 1610 : 1997 TABLE B.15 FOR RIGID PIPES THE BEDDING SHOULD BE SINGLE SIZE MATERIAL OR GRADED MATERIAL FROM 5mm UP TO A MAX SIZE OF 10mm FOR 100mm PIPES; 14mm FOR 150mm PIPES; 20mm FOR 225mm TO 600mm PIPES; mm FOR OVER 675mm PIPES

CHALK/LIMESTONE SHALL NOT BE USED AS BEDDING MATERIAL IN GROUND WHERE THE PH <7

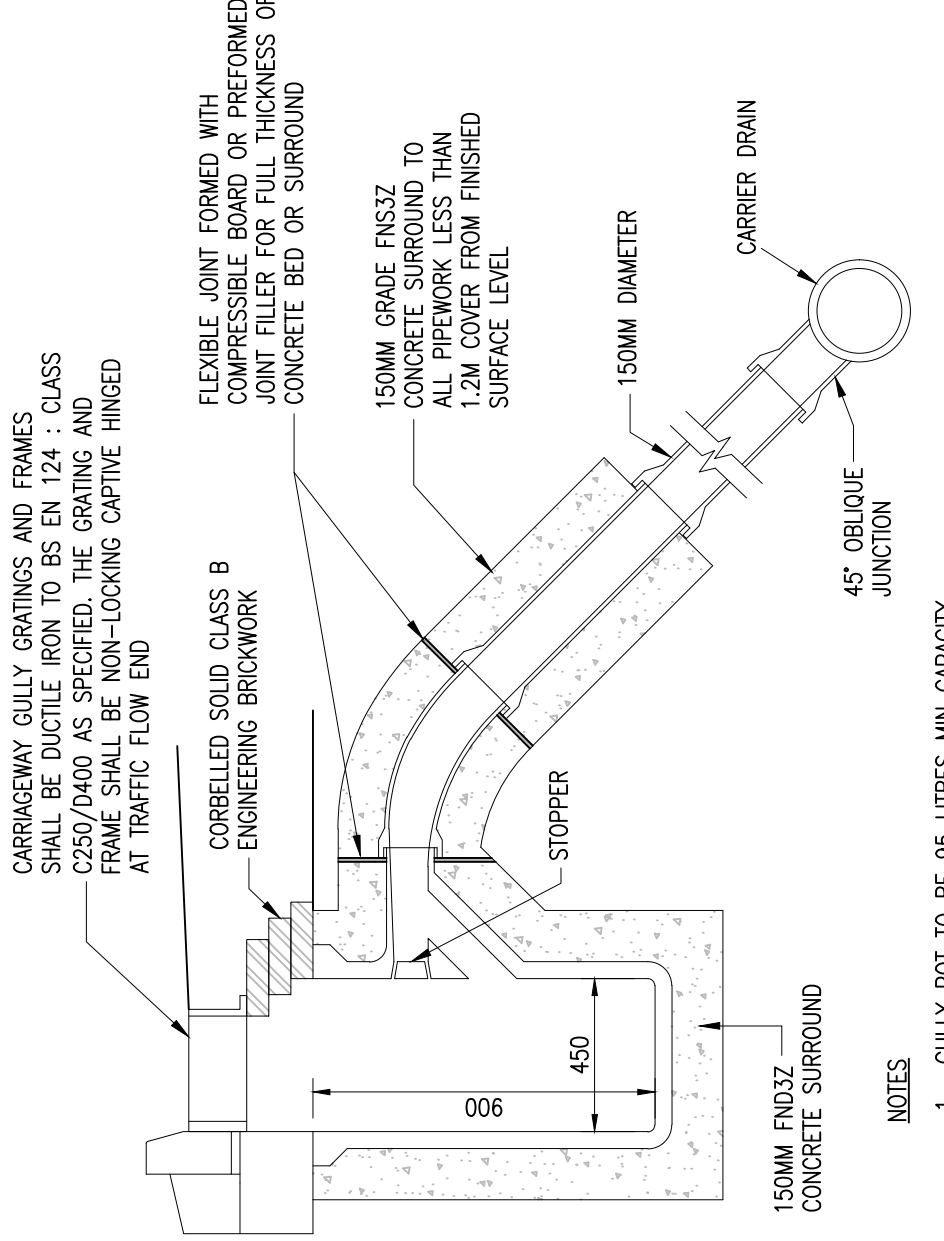
TRENCH WIDTHS	
PIPE ID	OVERALL TRENCH WIDTH
100	550
150	600
225	700
300	850
375	1050
450	1150
525	1200
600	1350
675	1450
750	1500
825	1600
900	1900
1050	2100
1200	2300
1350	2500
1500	2700
1800	3100

NOMINAL SIZE OF PIPES (mm)	MAXIMUM JOINT GULLY SIZE (mm)	IMPORTED GRANULAR MATERIAL TO BS 882	
		10mm NOMINAL SINGLE-SIZE	10 OR 14mm NOMINAL SINGLE-SIZE
OVER 100 TO 150	15	OR 14 TO 5mm GRADED	
OVER 150 TO 300	20	10,14 OR 20mm NOMINAL SINGLE-SIZE	OR 14 TO 5mm GRADED
OVER 300 TO 600	20	14 OR 20mm NOMINAL SINGLE-SIZE	OR 20 TO 5mm GRADED

Pipe Ø	Joint thickness
< 450	18mm
450-700	38mm
1200 >	54mm

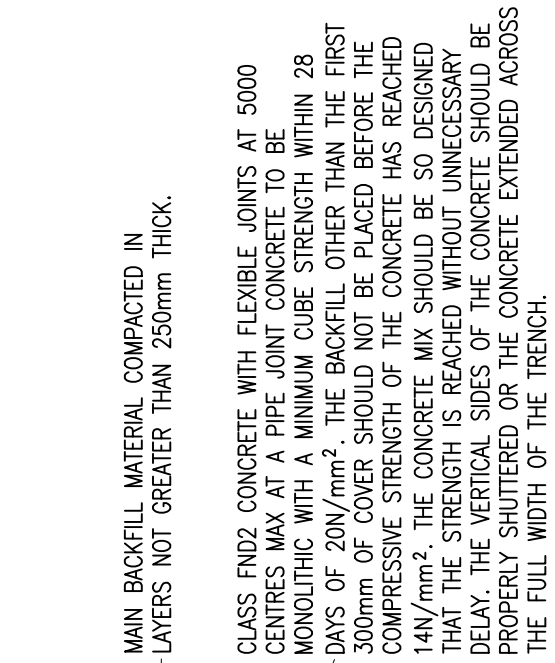
COMPRESSIBLE FILLER TABLE

(BITUMEN IMPREGATED INSULATING BOARD TO BS 1142: PART 3)

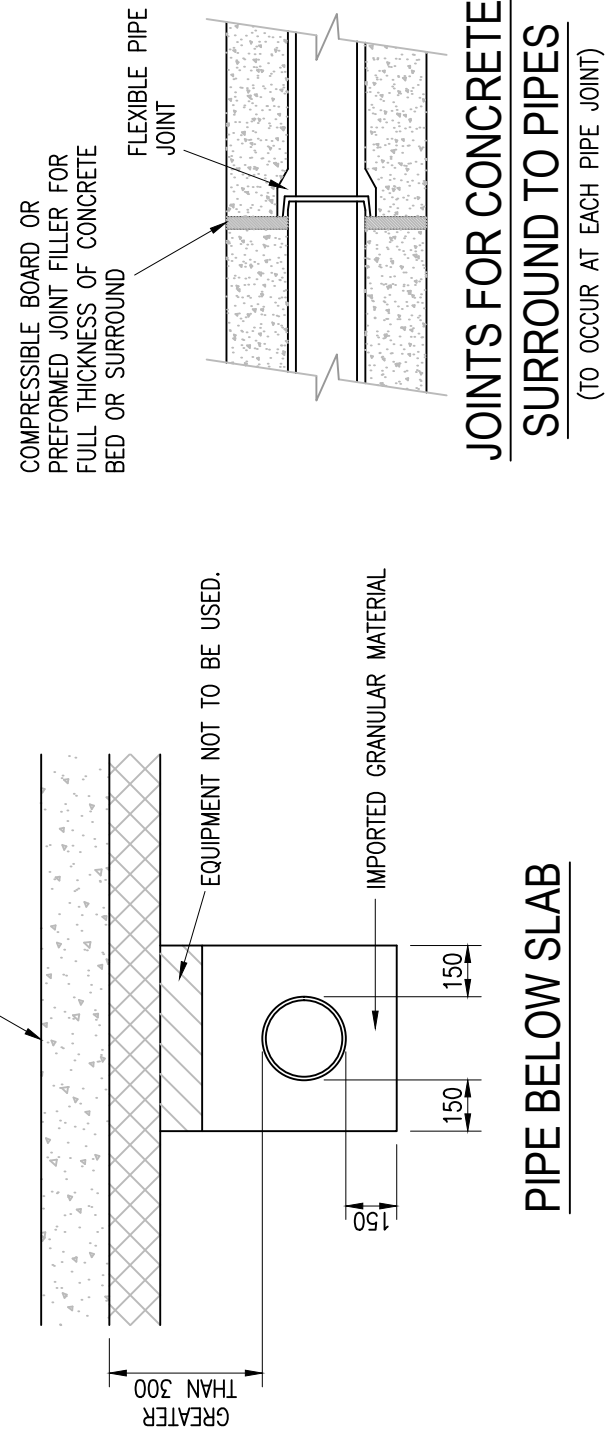


- NOTES
- GULLY POT TO BE 95 LITRES MIN CAPACITY
 - MAXIMUM TRENCH WIDTH FOR 150MM GULLY LEAD IS 600MM
 - NUMBER OF BEDDING LAYERS SHALL BE ADJUSTED TO SITE DIFFERENCES.
 - CONCRETE SURROUND TO PIPES SHALL ALWAYS FINISH AT A JOINT

GULLY DETAIL WITH CONNECTION TO CARRIER DRAIN

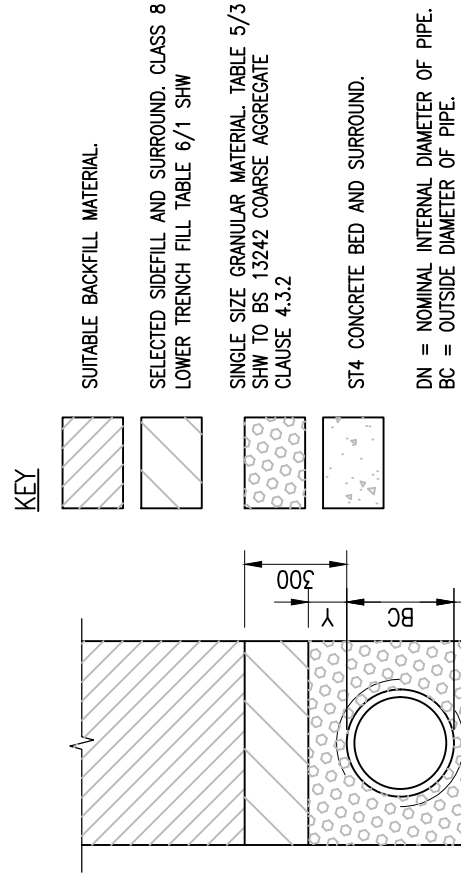


CONCRETE SURROUND WHERE COVER IS LESS THAN 1200 TYPE "Z"

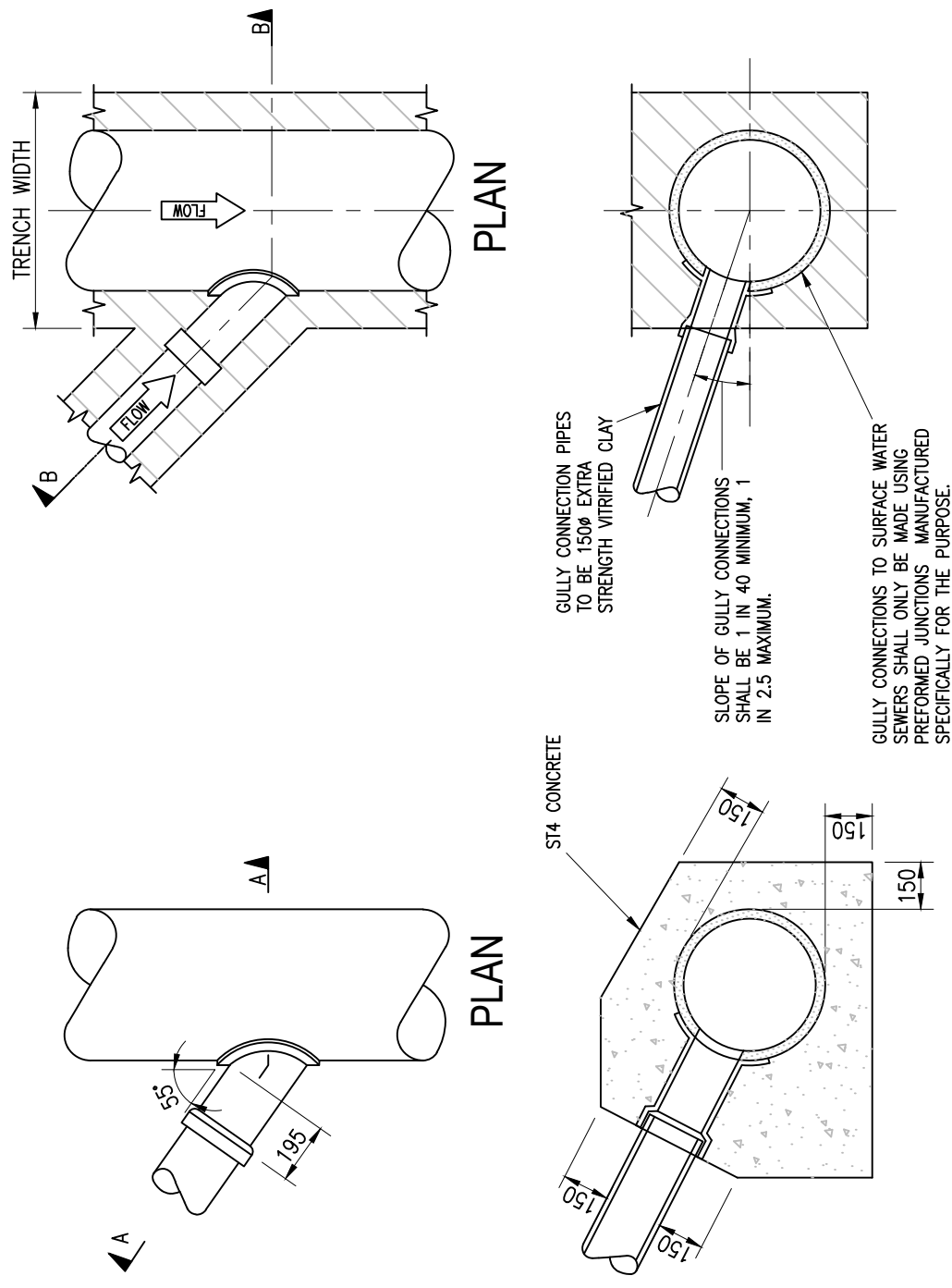


PIPE BEDDING DETAILS

PIPE BEDDING DETAILS



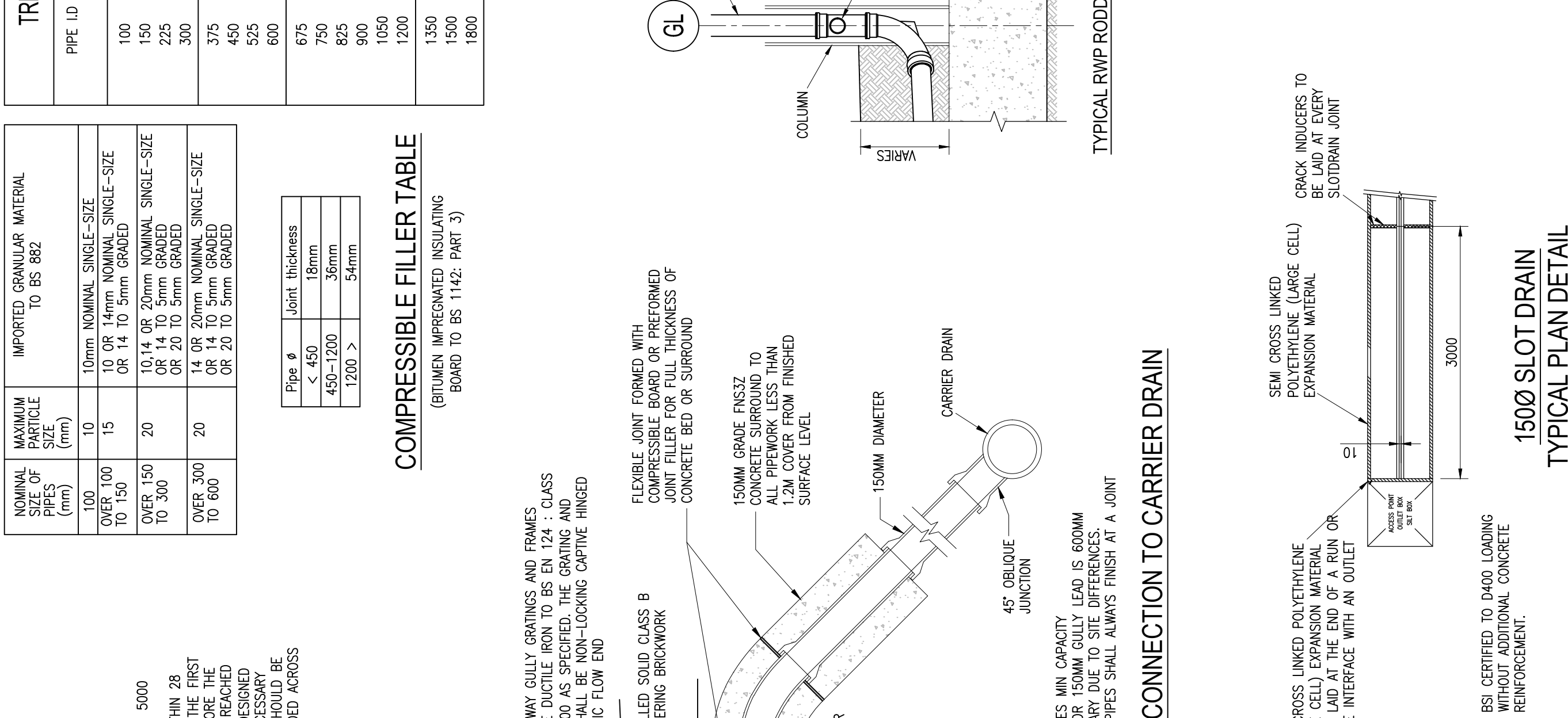
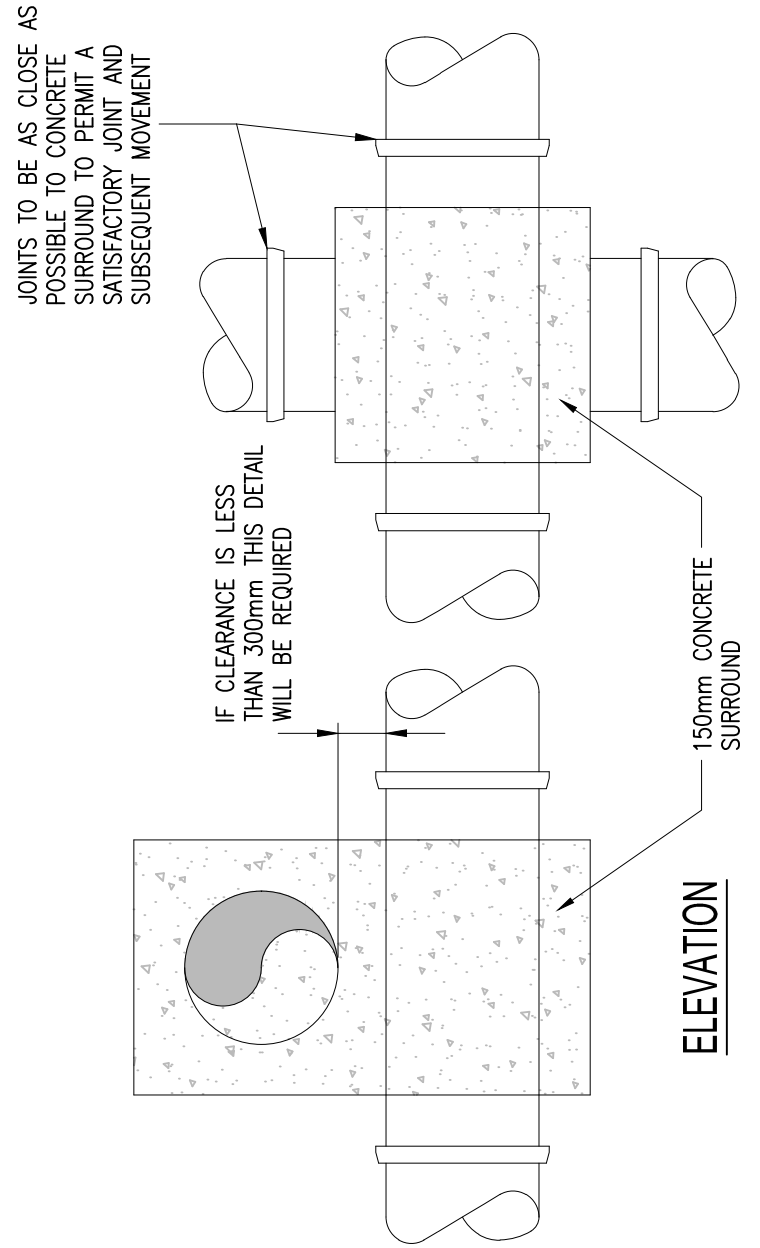
CLASS Z CONCRETE SURROUND WHERE COVER IS LESS THAN 900



SECTION A-A
CONCRETE SURROUND

SECTION B-B
GRANULAR SURROUND

GULLY CONNECTIONS



SPECIAL PIPE CROSSOVER DETAIL

REQUIRED IF CLEARANCE BETWEEN PIPES CROSSING EACH OTHER IS LESS THAN 300mm

<div><div>KGB Infrastructure</div><div>North Jersey Business Centre Woodward Road Knowsley Industrial Park Kirkby, Liverpool L33 7UT</div><div>Tel: 0151 547 2508 Mobile: 07808 452 303 email: kgb@infrastructure@btinternet.com</div></div>								JOB TITLE TERENCE STREET, NEWTON HEATH		CLIENT SPLASH DEVELOPMENTS LTD	
DRAWING TITLE PROPOSED DRAINAGE STANDARD DETAILS SHEET 2 of 3											
SCALE NTS		DRAWN BY KB		DATE 16/08/2024		DRAWING No. D246-KGB-00-XX-DR-D-0508					
						REVISION C01					
REV	DESCRIPTION	DRAWN	INITIALS	DATE	Dwg STATUS	CHECKED BY	DATE				
P01	ISSUED FOR INFORMATION	CIVIL 3D	KB	16/08/24	Preliminary	KB	16/08/24				
C01	ISSUED FOR CONSTRUCTION FOLLOWING DISCHARGE OF PLANNING CONDITION 5	CIVIL 3D	KB	23/10/24	Construction	KB	23/10/24				

GENERAL

1. ALL DIMENSIONS IN MILLIMETRES UNLESS STATED OTHERWISE.
2. ALL LEVELS AND DATUMS IN METRES UNLESS STATED OTHERWISE.
3. ALL DIMENSIONS, LEVELS AND DATUMS TO BE CONFIRMED ON SITE.
4. PRIOR TO FABRICATION AND CONSTRUCTION
5. ALL BUILDING WORKS TO BE CARRIED OUT IN ACCORDANCE WITH THE BUILDING REGULATIONS AND THE CIVIL, STRUCTURAL AND ARCHITECTURAL SPECIFICATIONS.
6. ALL ELECTRICAL WORKS TO BE CARRIED OUT IN ACCORDANCE WITH THE ELECTRICAL SPECIFICATIONS FOR CABLES, CABLE TRAYS, CABLES, CABLE MARKINGS TO BE WHITE THERMOPLASTIC SCREEN IN ACCORDANCE WITH TRAFFIC SIGNS REGULATIONS & GENERAL DIRECTIONS 2016.
7. BOND COAT SHALL BE APPLIED BETWEEN CONSTRUCTION LAYERS IN ACCORDANCE WITH SPECIFICATION FOR HIGHWAY WORKS.
8. WHERE REQUIRED, EVIDENCE OF CARRIAGEWAY REINSTATEMENT SHALL BE AGREED WITH LOCAL HIGHWAY AUTHORITY ENGINEER PRIOR TO COMPLETION.
9. EXISTING 3D SURFACE MODEL PRODUCED FROM TOPOGRAPHICAL SURVEY TO BE USED TO VERIFY EXISTING SURFACE LEVELS.
10. EXISTING SURFACE LEVELS SHIFTED TO ORIGINATE SURVEY COORDINATES, THEN RAISED TO TEXT LEVELS.
11. FINISHED FLOOR LEVELS TAKEN FROM 04. JUNE, DOCUMENT 133 AND ADJUSTED TO THE TOPOGRAPHICAL SURVEY LEVELS. (BLOCK E TBM WAS ASSUMED 100m AOD, NEW BLOCK E REDUCED LEVEL 87.00m AOD. ALL OTHER LEVELS RELATIVE TO NEW BLOCK E REDUCED LEVEL).
12. PROPOSED LAYOUT TAKEN FROM L20CY DRAWING, DATED APRIL 2016.
10. EXISTING LEVELS OF EXISTING ADOPTED DATUM TO BE CONFIRMED ON SITE PRIOR TO CONSTRUCTION AND ANY DISCREPANCIES REPORTED TO THE ENGINEER.

TO BE READ IN CONJUNCTION WITH DRAWING NUMBERS:-

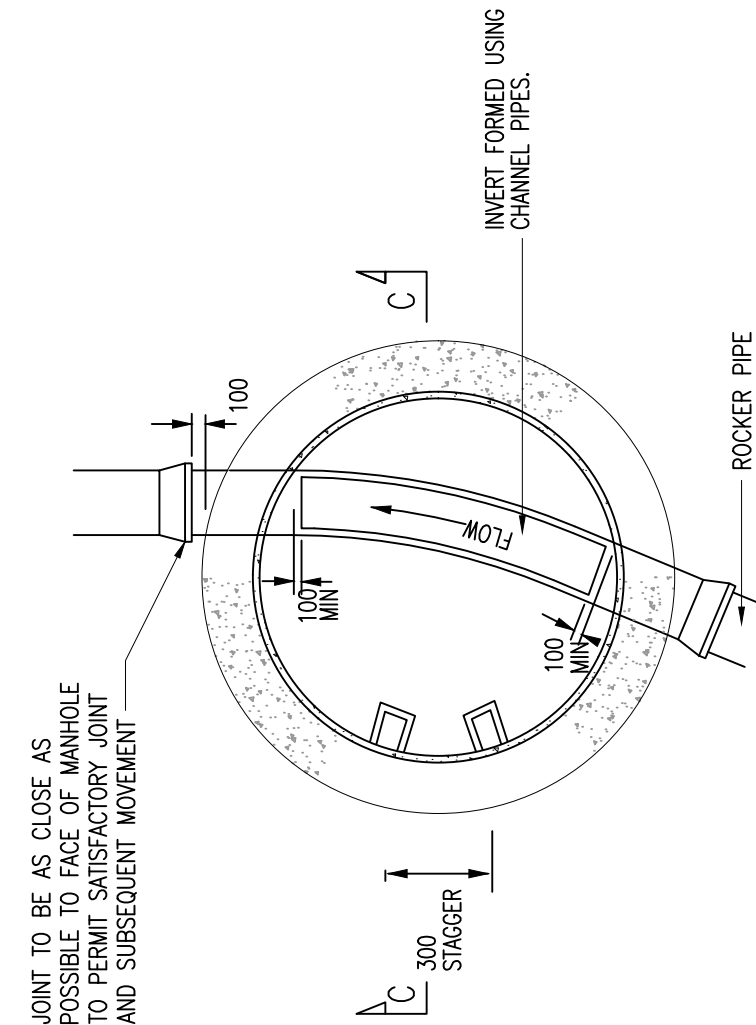
D246-KGB-00-XX-DR-D-0500

D246-KGB-00-XX-DR-D-0501

D246-KGB-00-XX-DR-D-0502

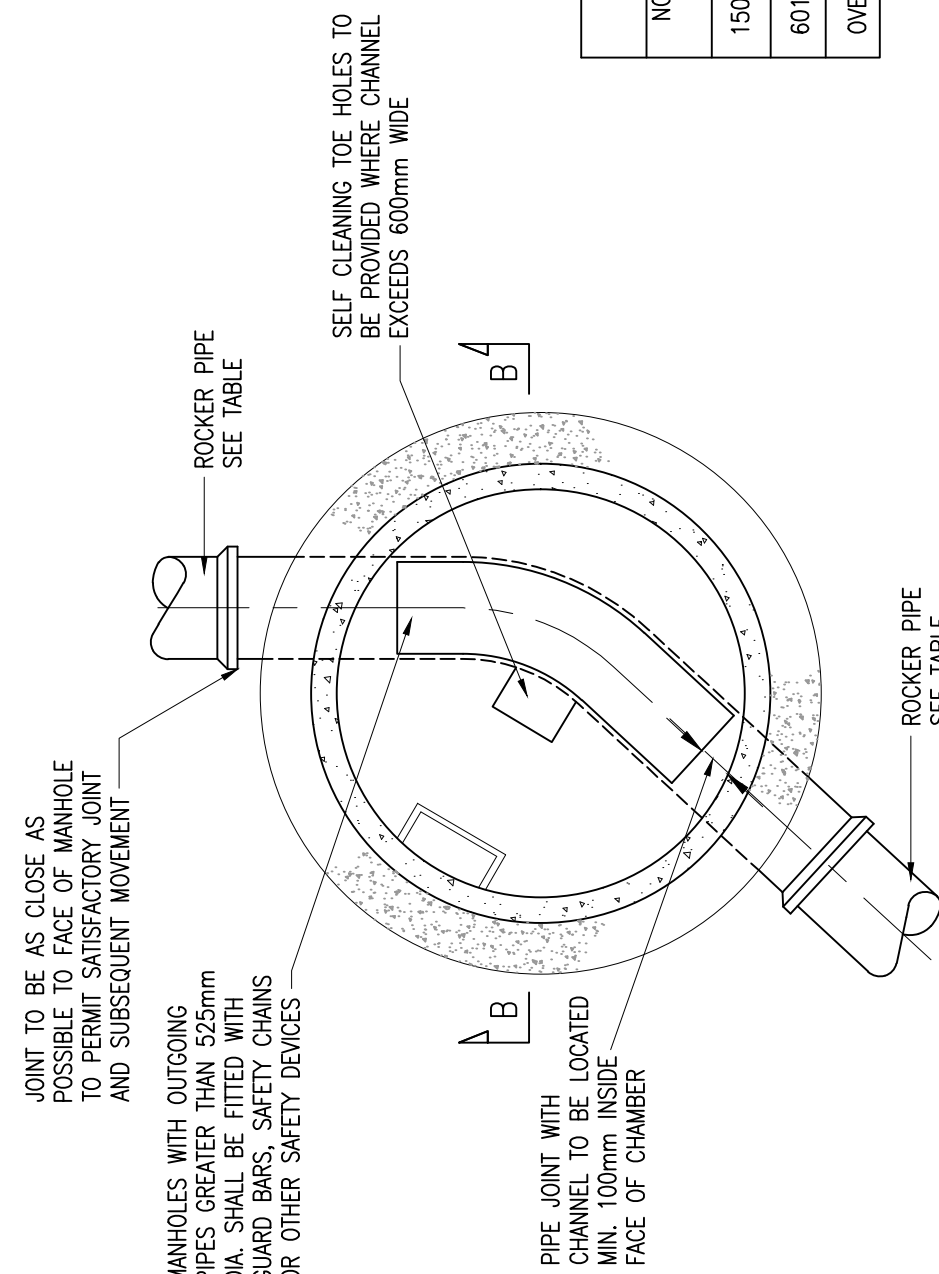
D246-KGB-00-XX-DR-D-0503

D246-KGB-00-XX-DR-D-0504

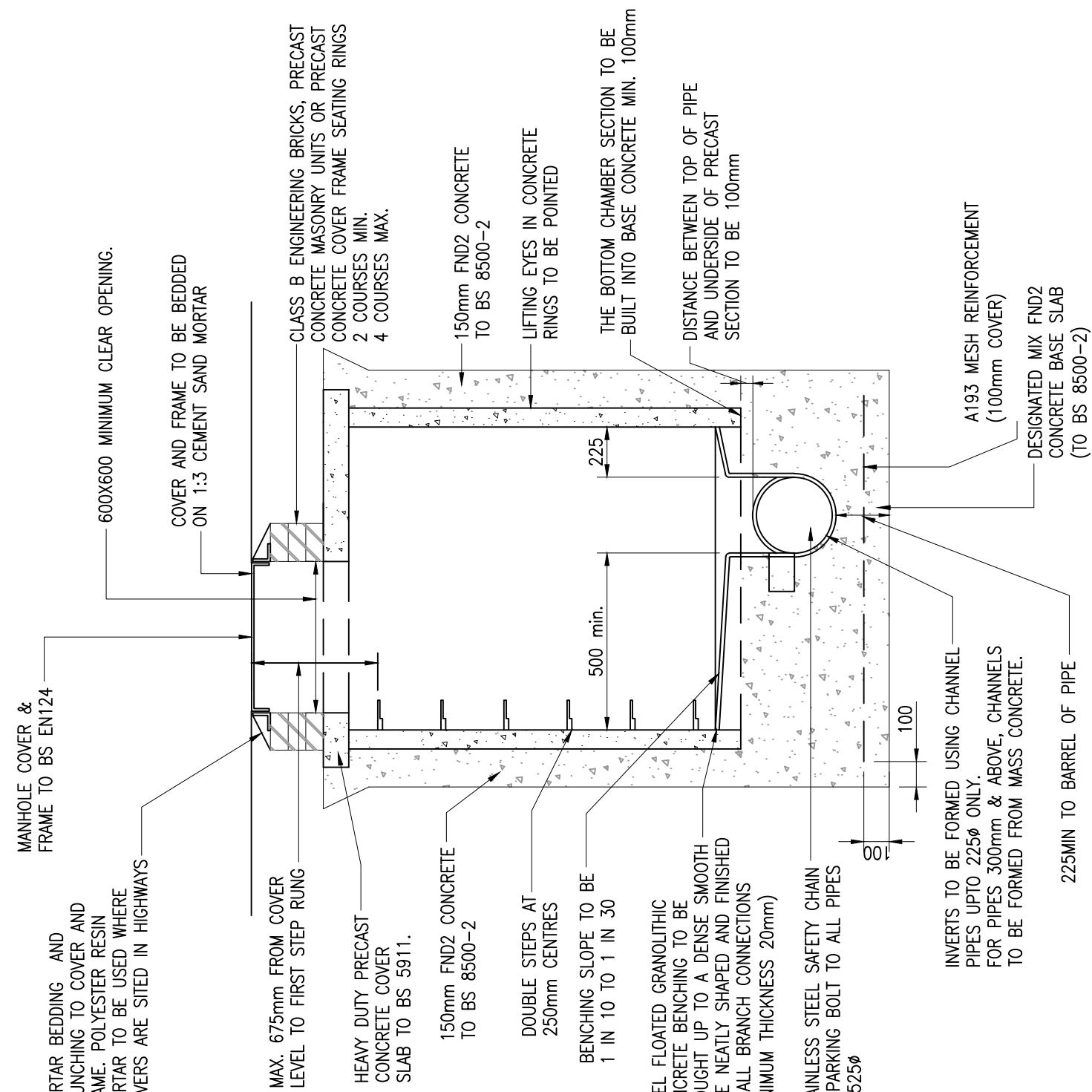
D246-KGB-00-XX-DR-D-0506
PROPOSED DRAINAGE ST.D246-KGB-00-XX-DR-D-0507
PROPOSED DRAINAGE ST.

TYPICAL MANHOLE DETAIL TYPE E
DEPTH TO SOFFIT OF PIPE 1.5m TO 3.0m

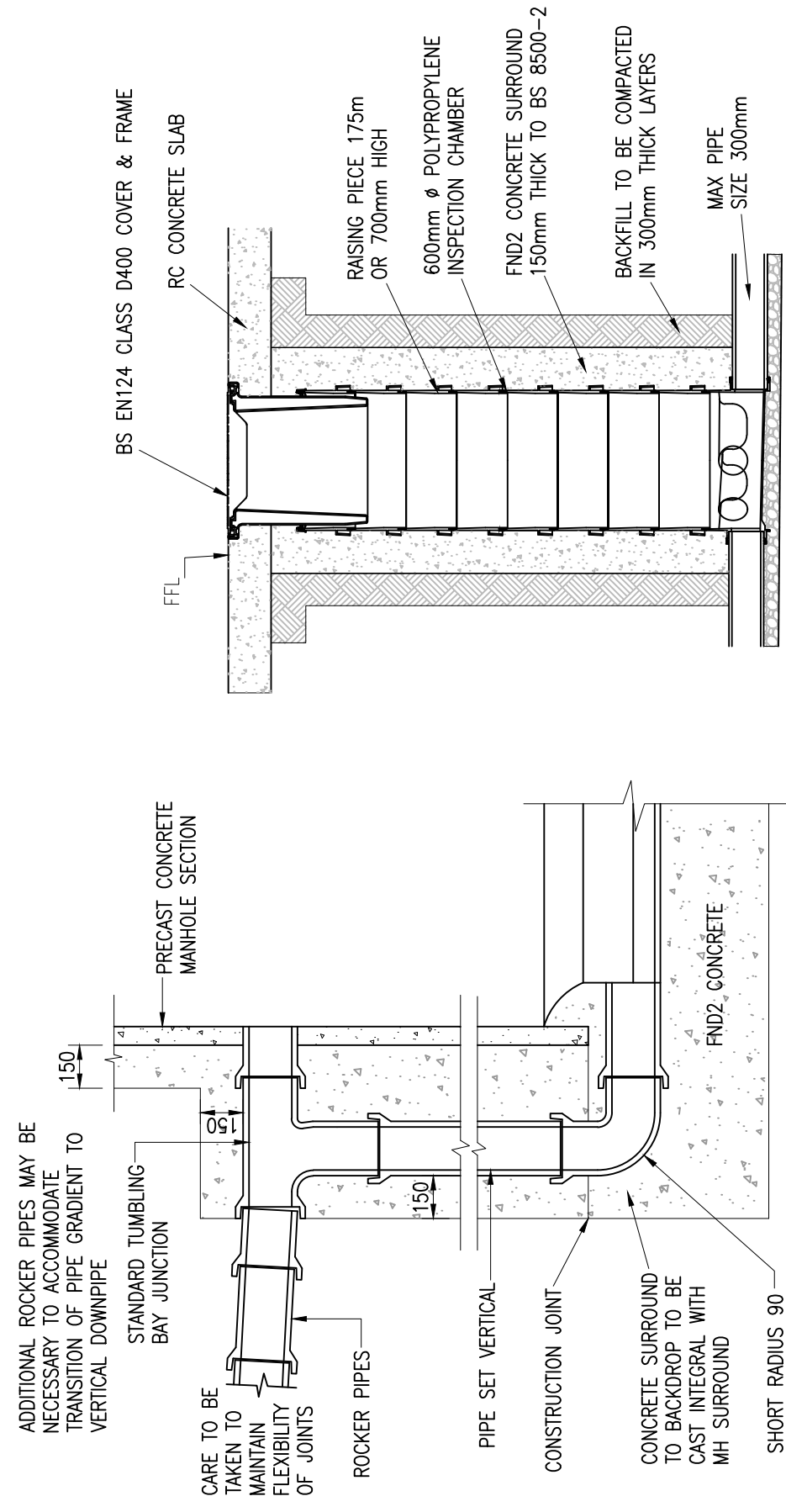
ROCKER PIPE LENGTHS	
NOMINAL DIA. (mm)	EFFECTIVE LENGTH (m)
150 TO 600	0.6
601 TO 750	1.0
OVER 750	1.25



TYPICAL MANHOLE DETAIL TYPE B
DEPTH TO SOFFIT OF PIPE 1.5m TO 3.0m



SECTION B - B



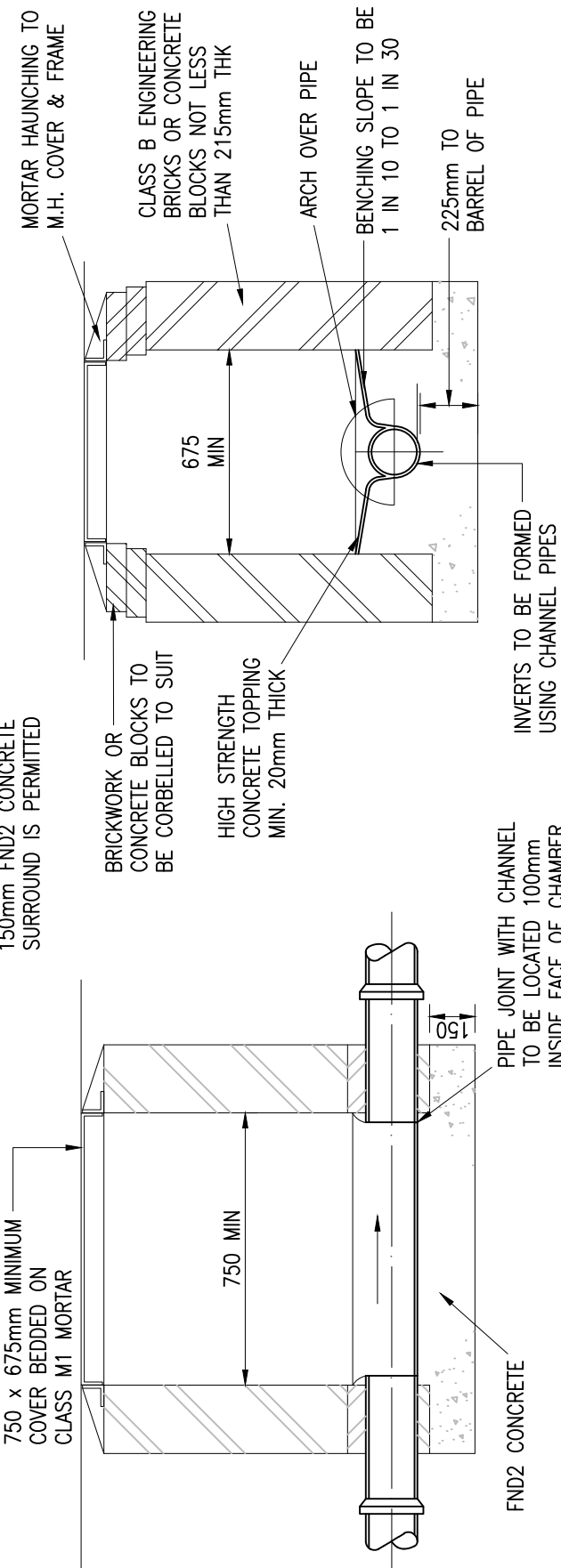
TYPICAL VERTICAL BACKDROP DETAIL

NOTE : WHERE THE DROP IS NOT EXCESSIVE A 45° DROP PIPE MAY BE USED

CHAMBER MAX DEPTH 5.0m

FOR MAINTENANCE, ANY MANHOLE CONSTRUCTED WITHOUT DOUBLE STEPS OR A LADDER SHALL BE ACCESSED BY WINCH ONLY.

SECTION D - D



TYPICAL MANHOLE DETAIL TYPE D

DEPTH TO SOFFIT LESS THAN 1.0m AND PIPE Ø UP TO 150

[illegible]

GENERAL

1. ALL DIMENSIONS IN MILLIMETRES UNLESS STATED OTHERWISE.
2. ALL LEVELS AND DATUMS IN METRES UNLESS STATED OTHERWISE.
3. ALL DIMENSIONS, LEVELS AND DATUMS TO BE CONFIRMED ON SITE, PRIOR TO FABRICATION AND CONSTRUCTION.
4. ALL BUILDING WORKS TO BE CARRIED OUT IN ACCORDANCE WITH THE BUILDING REGULATIONS AND THE CIVIL, STRUCTURAL AND ARCHITECTURAL SPECIFICATIONS.
5. ALL EXTERNAL WORKS TO BE CARRIED OUT IN ACCORDANCE WITH THE SPECIFICATION FOR HIGHWAY WORKS.
6. ROAD MARKINGS TO BE WHITE THERMOPLASTIC SCREEN IN ACCORDANCE WITH TRAFFIC SIGNS REGULATIONS & GENERAL DIRECTIONS 2016.
7. BOND COAT SHALL BE APPLIED BETWEEN CONCRETE AND REINFORCEMENT IN ACCORDANCE WITH SPECIFICATION FOR HIGHWAY WORKS.
8. WHERE REQUIRED, EDGE OF CARBAGEWAY REINSTATEMENT SHALL BE AGREED WITH LOCAL HIGHWAY AUTHORITY ENGINEER PRIOR TO COMPLETION.
9. EXISTING 3D SURFACE MODEL PRODUCED FROM TOPOGRAPHICAL SURVEY, DATED AUGUST 2012.
10. EXISTING TOPOGRAPHICAL SURVEY SHIFTED TO ORDNANCE SURVEY COORDINATES, THEN RAISED TO TEXT LEVELS.
11. FINISHED FLOOR LEVELS TAKEN FROM 04 JUNE, TOPOGRAPHICAL SURVEY LEVELS. (BLOCK E TBM WAS ASSUMED 100m AOD, ALL OTHER LEVELS REDUCED LEVEL IS 87.00m AOD. ALL OTHER LEVELS REDUCED TO NEW BLOCK REDUCED LEVEL).
12. BLOCK REDUCED LEVEL TAKEN FROM LES FOEY DRAWING, DATED APRIL 2016.
10. INVERT LEVELS OF EXISTING ADOPTED DRAINAGE TO BE CONFIRMED ON SITE PRIOR TO CONSTRUCTION AND ANY DISCREPANCIES REPORTED TO THE ENGINEER.

TO BE READ IN CONJUNCTION WITH DRAWING NUMBERS:-

D246-KGB-00-XX-DR-D-0500
PROPOSED DRAINAGE
SURFACE WATER LAYOUT

D246-KGB-00-XX-DR-D-0501
PROPOSED DRAINAGE
FOUL DRAINAGE LAYOUT

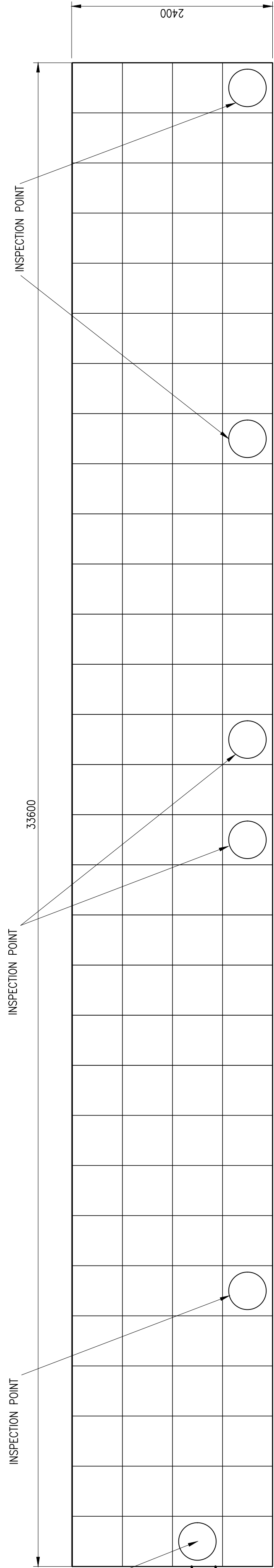
D246-KGB-00-XX-DR-D-0502
PROPOSED DRAINAGE
MANHOLE & PIPE SCHEDULES

D246-KGB-00-XX-DR-D-0503
PROPOSED DRAINAGE
LONG-SECTIONS - SHEET 1 OF 2

D246-KGB-00-XX-DR-D-0504
PROPOSED DRAINAGE
LONG-SECTIONS - SHEET 2 OF 2

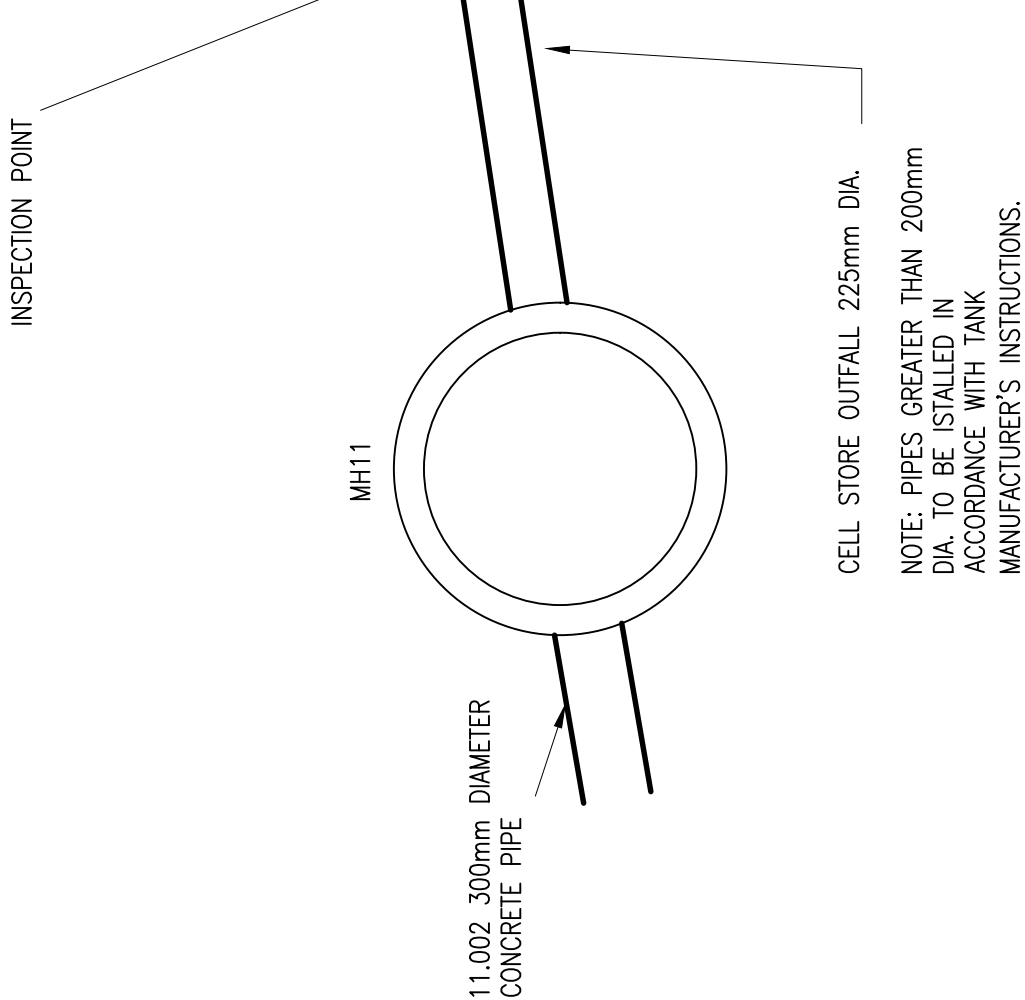
D246-KGB-00-XX-DR-D-0505
PROPOSED DRAINAGE
STANDARD DETAILS, SHEET 1 OF 3

D246-KGB-00-XX-DR-D-0506
PROPOSED DRAINAGE
STANDARD DETAILS, SHEET 2 OF 3

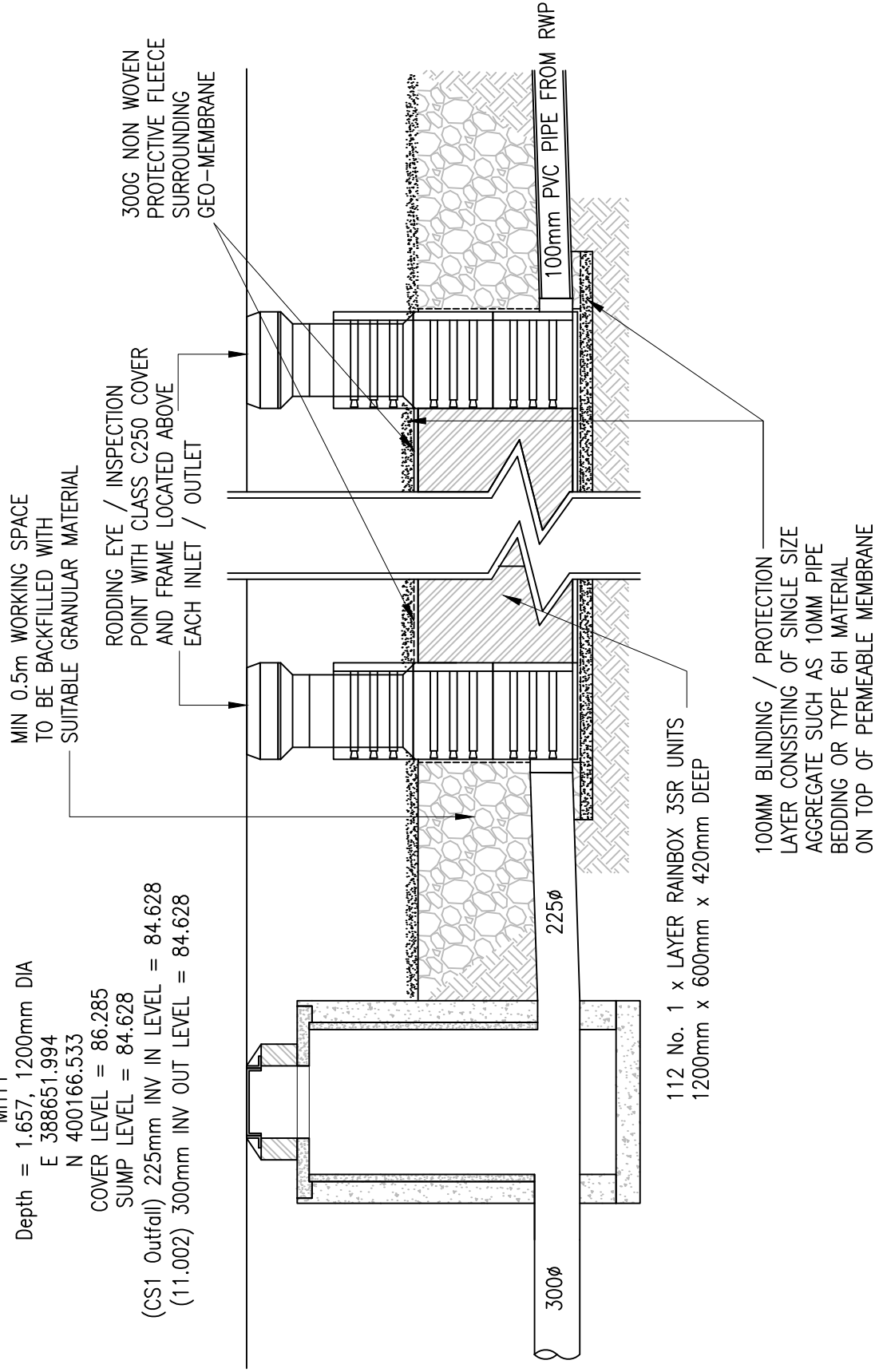


PLAN -- RAINBOX 3SR ATTENUATION TANK

33.6 x 2.4 x 0.42m DEEP
TOTAL VOL = 32.8m³
112 UNITS
(33.6 x 2.4 x 0.42m DEEP)
INVERT LEVEL = 84.628



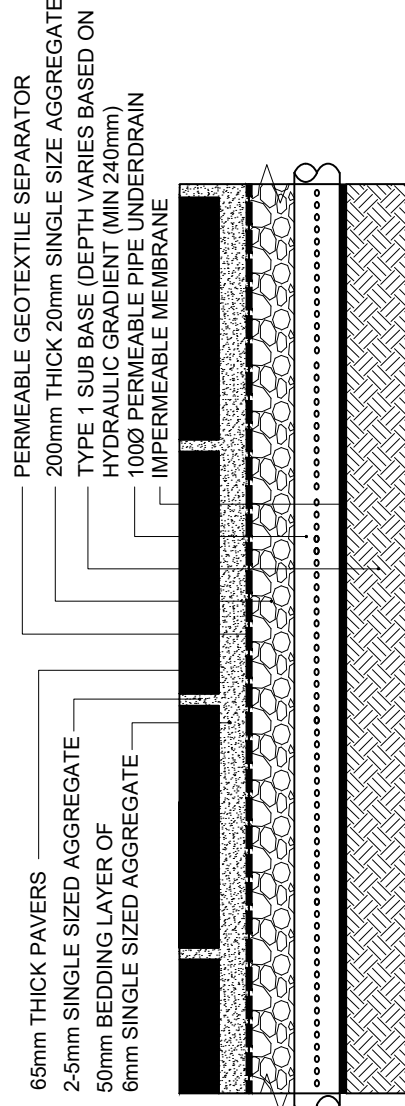
MH11
Depth = 1.657, 1200mm DIA
E 388651.994
N 400166.533
COVER LEVEL = 86.285
SUMP LEVEL = 84.628
(CS1 Outfall) 225mm INV IN LEVEL = 84.628
(11.002) 300mm INV OUT LEVEL = 84.628



TYPICAL LONG-SECTION THROUGH 24x14m ATTENUATION TANK

Permeable Paving Outfalls - Structure Table						
Structure Name	Diameter	Depth	Cover Level	Easting	Northing	Connected Pipes
Porous Paving A1 Outlet	0.100m	0.300m	86.500	388629.756	400166.669	A1 Outfall, (100mm ∅) Inv. 86.238
Porous Paving A2 Outlet	0.100m	0.300m	86.503	388637.477	400149.971	A2 Outfall, (100mm ∅) Inv. 86.187
Porous Paving B1 Outlet	0.100m	0.300m	86.220	388658.278	400151.046	B1 Outfall, (100mm ∅) Inv. 85.918
Porous Paving B2 Outlet	0.100m	0.300m	86.160	388661.745	400151.105	B2 Outfall, (100mm ∅) Inv. 85.838
Porous Paving C1 Outlet	0.100m	0.300m	86.110	388675.128	400151.166	C1 Outfall, (100mm ∅) Inv. 85.779
Porous Paving C2 Outlet	0.100m	0.300m	86.060	388683.454	400151.211	C2 Outfall, (100mm ∅) Inv. 85.800
Porous Paving D1 Outlet	0.100m	0.300m	86.797	388634.203	400136.054	D1 Outfall, (100mm ∅) Inv. 86.600
Porous Paving D2 Outlet	0.100m	0.300m	86.800	388642.593	400136.824	D2 Outfall, (100mm ∅) Inv. 86.476
Porous Paving E1 Outlet	0.100m	0.300m	86.930	388644.773	400133.335	E1 Outfall, (100mm ∅) Inv. 86.435
Porous Paving E2 Outlet	0.100m	0.300m	86.832	388659.095	400135.478	E2 Outfall, (100mm ∅) Inv. 86.303
Porous Paving F1 Outlet	0.100m	0.300m	86.619	388659.888	400137.766	F1 Outfall, (100mm ∅) Inv. 86.226
Porous Paving F2 Outlet	0.100m	0.300m	86.765	388674.604	400134.991	F2 Outfall, (100mm ∅) Inv. 86.140
Porous Paving G1 Outlet	0.100m	0.300m	86.386	388676.143	400137.951	G1 Outfall, (100mm ∅) Inv. 86.213
Porous Paving G2 Outlet	0.100m	0.300m	86.264	388687.470	400137.971	G2 Outfall, (100mm ∅) Inv. 86.026

Permeable Paving Outfalls - Pipe Table					
Pipe Name	Size (mm)	Plan Length (m)	Slope	End Invert Connection	
A1 Outfall	100	1.983	1.5	IC15A	
A2 Outfall	100	4.021	1.85	IC10	
B1 Outfall	100	2.187	1.3	MH09	
B2 Outfall	100	3.397	1.6	MH09	
C1 Outfall	100	2.252	1.7	MH09A	
C2 Outfall	100	2.107	1.8	MH09B	
D1 Outfall	100	4.251	1.4	IC04	
D2 Outfall	100	1.934	1.1	MH01E	
E1 Outfall	100	2.758	1.2	MH01D	
E2 Outfall	100	2.589	1.2	IC03C	
F1 Outfall	100	3.260	1.3	IC03C	
F2 Outfall	100	2.301	1.3	IC03B	
G1 Outfall	100	2.203	1.3	IC03B	
G2 Outfall	100	2.043	1.4	IC03A	



TYPICAL PERMEABLE PAVING - CAR PARKING

KGB Infrastructure

North Mersey Business Centre
Woodward Road
Knowsley Industrial Park
Kirby, Liverpool
L33 7UY

Tel: 0151 547 2508
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JOB TITLE

TERENCE STREET, NEWTON HEATH

CLIENT

SPLASH DEVELOPMENTS LTD

DRAWING TITLE

PROPOSED DRAINAGE
STANDARD DETAILS
SHEET 3 of 3

SCALE

NTS

DRAWN BY

KB

DATE

16/08/2024

DRAWING No.

D246-KGB-00-XX-DR-D-0507

REVISION

C01