

[illegible]

Chainage	Existing Levels	Centre Line Levels
0.000	81.848	81.744
10.000	82.869	82.066
17.477	82.679	82.267

Horizontal Geometry: L = 17.477

Vertical Geometry: G = 3.224%, L = 11.987, L = 5.490

Storm Network

Level

85

84

83

82

81

80

79

78

77

76

75

Chainage

Existing Levels

Centre Line Levels

Left Channel

Right Channel

Horizontal Geometry

Vertical Geometry

Storm Network

S6
CL 81.008m
IL 77.515m

S7
CL 81.428m
IL 77.332m

CH: 14.333
LVL: 81.410

1:24

1:40

900Ø CONCRETE
Type S 11.46m at 1:347.18

Chainage	0.000	10.000	17.364
Existing Levels	81.570	82.600	81.956
Centre Line Levels	80.853	81.275	81.486
Left Channel			
Right Channel			
Horizontal Geometry		L = 17.364	
Vertical Geometry		G = 4.222% L = 1.573	G = 2.496% L = 5.79
Storm Network	03.391 81.008	14.847 81.428	

ROAD 2 - LONG SECTION

SCALE: H 1:500,V 1:100. DATUM: 75.000

The diagram shows a cross-section of Road 2 with a center line and side channels. The vertical axis represents Level (75 to 85) and the horizontal axis represents Chainage (0.000 to 70.000). The center line is marked with points S4, S5, and S7. The side channels are marked with points CH and LVL. The horizontal geometry shows a curve with a radius of 55.000m and a length of 29.863m. The vertical geometry shows a parabolic curve with a grade of 3.802% and a length of 33.305m. The storm network is shown at the bottom with various pipe sizes and manhole elevations.

Chainage	Existing Levels	Centre Line Levels	Left Channel	Right Channel
0.000	79.812	79.757	79.582	79.826
10.000	80.697	80.137	80.068	80.218
20.000	81.240	80.517	80.449	80.589
30.000	81.705	80.898	80.829	80.979
40.000	82.048	81.233	81.164	81.314
50.000	82.235	81.387	81.318	81.486
60.000	82.463	81.487	81.419	81.556
70.000	82.556	81.688	81.519	81.656

Horizontal Geometry	Vertical Geometry
L=6.473=4.661	G=3.802% L=33.305
R=55.000 L=16.976	R=500.000 K=5.000 L=13.977
L=29.863	G=1.007% L=24.820
R=90.000 L=7.838	
L=12.556	

Storm Network
07.784 80.068 19.696 80.526 900Ø CONCRETE Type S 33.26m at 1:396.000 52.922 81.428 1050Ø CONCRETE Type S 39.84m at 1:398.378

Level	Chainage	Centre Line Levels	Existing Levels	Horizontal Geometry	Storm Network
85					
84					
83					
82					
81					
80					
79					
78					
77					
76					
75					
	0.000	82.220	82.572		102.119
	10.000	82.470	82.595	R: 200.000 L: 15.900	82.291
	20.000	82.354	82.593	L: 0.763	16.282
	30.000	82.188	82.560	L: 39.894	82.416
	40.000	82.022	82.577	L: 2.753	10500 CONCRETE Type S 42.95m at 1:394.001
	50.000	82.737	82.737	L: 2.314	58.920
	60.000	82.233	82.233	L: 15.923	82.265
	70.000	81.655	81.655		70.586
	80.000	80.703	80.703		81.631
	90.000	81.722	81.722	L: 20.079	
	100.000	81.821	81.821	R: 1.826 L: 2.411	100.635
	110.000	82.057	82.057		81.970
	120.000	82.526	82.526	L: 38.254	10500 CONCRETE Type S 39.84m at 1:398.378
	130.000	81.531	82.435		140.272
	140.000	81.434	82.318	R: 1.826 L: 0.137	81.428
	150.000	81.312	82.093		9000 CONCRETE Type S 33.26m at 1:396.000
	160.000	81.036	81.673	L: 33.024	173.525
	170.000	80.656	81.409		80.526
	180.000	80.269	80.816	R: 1.826 L: 0.304	185.556
	189.889	79.895	80.082	R: 1.826 L: 0.341	80.068

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1. ALL DRAINAGE WORKS TO BE CONSTRUCTED FROM THE OUTFALL TOWARDS THE HEAD OF RUN TO ENSURE THE OUTFALL CAN BE ACCESSIBLE.
2. ALL EXISTING DRAINS & SERVICES (LINES & LEVELS) TO BE CHECKED & CONFIRMED BY THE CONTRACTOR PRIOR COMMENCEMENT OF ANY ON SITE DRAINAGE WORKS. ANY DISCREPANCY IN LEVELS IS TO BE REPORTED IMMEDIATELY APP.
3. ALL DRAINAGE WORK TO BE IN ACCORDANCE WITH THE BUILDING REGULATIONS, BS EN 752 & TO THE SATISFACTION OF THE LOCAL COUNCIL INSPECTOR.
4. ALL PROPRIETARY ITEMS TO BE INSTALLED STRICTLY IN ACCORDANCE WITH MANUFACTURER'S DETAILS, INSTRUCTIONS & SPECIFICATIONS.
5. ALL COVER LEVELS ARE TO BE DETERMINATE. EXACT LEVELS TO BE DETERMINED FROM THE EXTERNAL WORKS LAYOUT.
6. INVERT LEVELS QUOTED AT MANHOLES & INSPECTION CHAMBERS ARE THOSE OF THE LARGEST CONNECTED PIPE DIAMETER. PIPES AT MANHOLES TO BE LAID WITH SLOPES LEVEL UNLESS NOTED OTHERWISE.
7. PIPE GRADIENTS WHERE STATED ARE APPROPRIATE - LEVEL AT THE CHAMBERS TAKE PRECEDENT.
8. REFER TO ARCHITECT'S DRAWINGS FOR PRECISE LOCATION OF ALL RAINWATER PIPES, INTERNAL CONNECTIONS ETC
9. ALL INTERNAL CONNECTIONS TO HAVE AN ABOVE-FLOOR ACCESS POINT TO ENABLE FUTURE ACCESS FOR MAINTENANCE.
10. PIPES & FITTINGS TO BE:
 - a. CONCRETE PIPES & ANCILLARY PRODUCTS TO BS 5911:20 & BS EN 1916:2002.
 - b. VITRIFIED CLAY PIPES & FITTINGS TO BS EN 295:2013
 - c. DUCTILE IRON TO BS EN 598:2007 & BS ISO 4179:2005.
 - d. PERFORATED VITRIFIED CLAY PIPES FOR LAND DRAINAGE TO BS 1196.
 - e. PLASTIC PIPES FOR LAND DRAINAGE TO BS 4962:1982.
 - f. SLOPE DRAINING SYSTEMS FOR NON-PRESSURISED UNDERGROUND DRAINAGE & SEWAGE TO BS EN 1401 & BS 4860 - SOLID WALL, STRUCTURED WALL PIPES TO BS EN 1402.
 - g. PRECAST CONCRETE MANHOLE UNITS TO BS EN 1917:2000.
 - h. PLASTIC INSPECTION CHAMBERS FOR DRAINS & SEWERS BS EN 13598-1:2010.
 - i. GULLY & MANHOLE TOPS FOR VEHICULAR & PEDESTRIAN AREAS TO BS EN 124:1994.
 - j. DRAINAGE CHAMBERS FOR VEHICULAR & PEDESTRIAN AREAS TO BS EN 1432:2002.
12. ALL MANHOLE COVERS, ROAD GULLY COVERS & FRAMES TO COMPLY WITH BS EN124 NON ROCKING TYPE.

UNLESS NOTED OTHERWISE USE CLASS:

A15 FOR USE IN PEDESTRIAN AREAS WHERE VEHICLES MAY NO ACCESS.

B125 FOR USE IN CAR PARKS & PEDESTRIAN AREAS WHERE INFREQUENT LIGHT VEHICLE ACCESS IS LIKELY (INCLUDING DRIVEWAYS).

C250 FOR ACCESS COVERS & GULLY GRATINGS IN AREAS OF CARS MOVING IN HIGHLY SPECIFIC. ALSO FOR GULLY GRATINGS IN CARRIAGEWAY WITHIN 500mm OF KERB & UP TO 200mm INTO THE FOOTWAY.

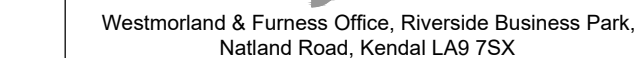
D400 FOR USE IN CARRIAGEWAYS, TRAYS & PARKING AREAS ACCESSED BY ALL TYPES OF VEHICLES.

E600 FOR USE IN AREAS WHERE HIGH WHEEL LOADS ARE PRESENT.

F900 FOR USE IN AREAS WHERE EXTREMELY HIGH WHEEL LOADS ARE PRESENT. SUCH AS AIRCRAFT PAVEMENTS, DOCKS, HEAVY INDUSTRIAL SITES.

13. MANHOLES IN INTERNAL AREAS REQUIRE DOUBLE SEALED COVERS WITH LOCKING SCREWS. RESINISHED WHERE NECESSARY TO ACCESS TO ALL FLOOR FINISHES TO ARCHITECT'S SPECIFICATION.

C01	Updated Drawing Status	JSM	ZS	
		28/06/24	28/06/24	28/06/24
P08	Updated Road 2 Longsection,	BD	BD	
		04/06/24	04/06/24	04/06/24
P07	Updated longsections to suit United Utilities comments (18.03.24)	ZS	ZS	
		28/03/24	28/03/24	28/03/24
P06	Updated Surface water Drainage design, tank sizes and Max water levels to suit revised design	ZS	BD	
		07/03/24	07/03/24	07/03/24
P05	Removed manhole schedule and revised drawing title	ZS	BD	
		15/03/24	15/03/24	15/03/24
P04	Updated Max water level information on LongSection.	ZS	BD	
		25/01/24	25/01/24	25/01/24
P03	Add Storm MH Schedule Schedule.	SA	SA	
		20/11/23	20/11/23	20/11/23
P02	Updated storm drainage and revised storm 1/road 1 TH longsection to suit latest site layout (P07)	ZS	LF	
		19/09/23	19/09/23	19/09/23
P01	Initial Issue.	ZS	BD	
		26/07/23	26/07/23	26/07/23
Rev	Details	Author & Date	Checked & Date	Approved & Date



Client
MOSSCARE ST VINCENTS

Project Name	
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PARKMOUNT ROAD, MANCHESTER

Drawing Title	

ROAD LONGITUDINAL SECTIONS

ROAD LONGITUDINAL SECTIONS

Purpose	CONSTRUCTION
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CONSTRUCTION			
Code	Item	Unit	Quantity
1	Excavation and backfilling of foundation	m ³	100
2	Reinforcement for foundation	kg	500
3	Formwork for foundation	m ²	200
4	Concrete for foundation	m ³	100
5	Excavation and backfilling of walls	m ³	200
6	Reinforcement for walls	kg	1000
7	Formwork for walls	m ²	400
8	Concrete for walls	m ³	200
9	Excavation and backfilling of floor	m ³	100
10	Reinforcement for floor	kg	500
11	Formwork for floor	m ²	200
12	Concrete for floor	m ³	100
13	Excavation and backfilling of roof	m ³	100
14	Reinforcement for roof	kg	500
15	Formwork for roof	m ²	200
16	Concrete for roof	m ³	100
17	Plastering of walls	m ²	400
18	Painting of walls	m ²	400
19	Plastering of floor	m ²	200
20	Painting of floor	m ²	200
21	Plastering of roof	m ²	200
22	Painting of roof	m ²	200
23	Installation of doors and windows	m ²	200
24	Electrical wiring	m	100
25	Plumbing	m	100
26	Sanitary ware	kg	500
27	Painting of exterior	m ²	400
28	Painting of interior	m ²	400
29	Final inspection and handover	h	100

Scale	Drawn	Checked	Approved
1:500H 1:100V	ZS	BD	ZS

Original Size	Date	Date	Date
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A1	20/07/23	26/07/23	26/07/23
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Drawing Number	Rev.
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