Project:	Date:		
OLDHAM ROAD MILES PLATTING SW Calcs	28/09/2026		
	Designed by:	Checked by:	Approved By:
	JG		
Report Details: Type: Junctions Storm Phase: Surface Network 1	18-20 HARRINGTON STREET: L2 9QA LIVERPOOL		

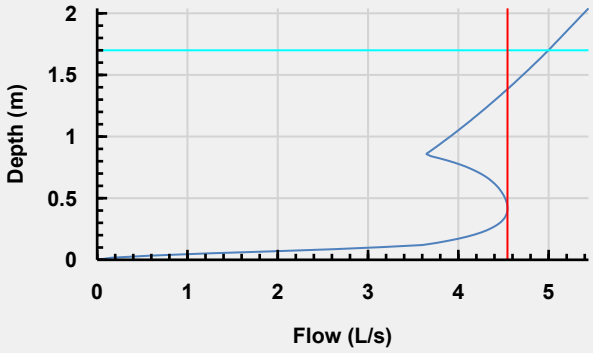
Name	Junction Type	Easting (m)	Northing (m)	Cover Level (m)	Depth (m)	Invert Level (m)	Chamber Shape	Diameter (m)
PS6	Manhole	385789.996	399579.687	54.758	1.156	53.602	Circular	1.350
PS12	Manhole	385798.883	399614.256	55.659	1.512	54.147	Circular	1.350
PS4	Manhole	385806.274	399614.828	55.600	1.225	54.375	Circular	0.450
PS11	Manhole	385804.386	399620.648	55.600	1.236	54.364	Circular	0.450
PS10	Manhole	385822.412	399631.566	55.620	0.992	54.628	Circular	0.450
PS9	Manhole	385831.604	399616.328	55.670	0.600	55.070	Circular	0.450
Outfall	Manhole	385758.738	399596.172	55.150	3.010	52.140	Circular	1.200
PS14	Manhole	385768.677	399601.780	55.207	2.107	53.100	Circular	1.800
PS13	Manhole	385777.822	399607.421	55.360	2.077	53.283	Circular	1.500
PS8	Manhole	385783.370	399598.852	55.223	1.838	53.386	Circular	1.500
PS5	Manhole	385785.986	399600.454	55.339	1.674	53.665	Circular	0.600
PS2	Manhole	385797.716	399584.262	55.600	1.097	54.503	Circular	0.450
PS1	Manhole	385830.498	399606.783	55.690	0.600	55.090	Circular	0.450
PS7	Manhole	385785.054	399587.401	54.950	1.441	53.509	Circular	1.350
PS3	Manhole	385810.325	399610.007	55.700	1.000	54.700	Circular	0.450

Name	Lock
PS6	None
PS12	None
PS4	None
PS11	None
PS10	None
PS9	None
Outfall	None
PS14	None
PS13	None
PS8	None
PS5	None
PS2	None
PS1	None
PS7	None
PS3	None

Project:	Date:		
OLDHAM ROAD MILES PLATTING SW Calcs	28/09/2026		
	Designed by:	Checked by:	Approved By:
	JG		
Report Details: Type: Junctions Storm Phase: Surface Network 1	18-20 HARRINGTON STREET: L2 9QA LIVERPOOL		

Outlets

Junction	Outlet Name	Outgoing Connection	Outlet Type
PS6	Outlet	PS5-S6	Free Discharge
PS12	Outlet	PS11-PS12	Free Discharge
PS4	Outlet	PS4-PS5	Free Discharge
PS11	Outlet	PS10-PS11	Free Discharge
PS10	Outlet	PS9-PS10	Free Discharge
PS9	Outlet	PS8-PS9	Free Discharge
PS14	Outlet	PS13-S14	Hydro-Brake®
	Invert Level (m)	53.175	
	Design Depth (m)	1.700	
	Design Flow (L/s)	5.0	
	Objective	Minimise Upstream Storage Requirements	
	Application	Surface Water Only	
	Sump Available	☑	
	Unit Reference	SHE-0095-5000-1700-5000	
PS13	Outlet	PS12-PS13	Free Discharge
PS8	Outlet	PS7-PS12	Free Discharge
PS5	Outlet	PS4-PS7	Free Discharge
PS2	Outlet	PS2-PS5	Free Discharge
PS1	Outlet	PS1-PS2	Free Discharge
PS7	Outlet	PS6-PS7	Free Discharge
PS3	Outlet	Pipe (6)	Free Discharge





Porous Paving

Type : Porous Paving

Dimensions

Exceedance Level (m)	54.700
Depth (m)	0.480
Base Level (m)	54.220
Paving Layer Depth (mm)	130
Membrane Percolation (m/hr)	360.0
Porosity (%)	30
Length (m)	11.688
Long. Slope (1:X)	60.00
Width (m)	3.800
Total Volume (m³)	4.664

Advanced

Conductivity (m/hr)	50.0



Porous Paving (1)

Type : Porous Paving

Dimensions

Exceedance Level (m)	55.000
Depth (m)	0.480
Base Level (m)	54.520
Paving Layer Depth (mm)	130
Membrane Percolation (m/hr)	360.0
Porosity (%)	30
Length (m)	13.123
Long. Slope (1:X)	48.00
Width (m)	3.961
Total Volume (m³)	5.458

Advanced

Conductivity (m/hr)	50.0



Porous Paving (2)

Type : Porous Paving

Dimensions

Exceedance Level (m)	55.200
Depth (m)	0.480
Base Level (m)	54.720
Paving Layer Depth (mm)	130
Membrane Percolation (m/hr)	360.0
Porosity (%)	30
Length (m)	9.208
Long. Slope (1:X)	48.00
Width (m)	3.809
Total Volume (m³)	3.683

Advanced

Conductivity (m/hr)	50.0



Porous Paving (3)

Type : Porous Paving

Dimensions

Exceedance Level (m)	55.760
Depth (m)	0.480
Base Level (m)	55.280
Paving Layer Depth (mm)	130
Membrane Percolation (m/hr)	360.0
Porosity (%)	30
Length (m)	30.110
Long. Slope (1:X)	120.00
Width (m)	10.497
Total Volume (m³)	33.187

Advanced

Conductivity (m/hr)	50.0



Porous Paving (4)

Type : Porous Paving

Dimensions

Exceedance Level (m)	55.450
Depth (m)	0.480
Base Level (m)	54.970
Paving Layer Depth (mm)	130
Membrane Percolation (m/hr)	360.0
Porosity (%)	30
Length (m)	18.017
Long. Slope (1:X)	103.00
Width (m)	8.354
Total Volume (m³)	15.804

Advanced

Conductivity (m/hr)	50.0

Project:	Date:			
OLDHAM ROAD MILES PLATTING SW Calcs	28/09/2026			
	Designed by: JG	Checked by:	Approved By:	
Report Details: Type: Stormwater Controls Storm Phase: Surface Network 1	18-20 HARRINGTON STREET: L2 9QA LIVERPOOL			



Cellular Storage

Type : Cellular Storage

Dimensions

Exceedance Level (m)	55.400
Depth (m)	1.000
Base Level (m)	53.640
Number of Crates Long	10
Number of Crates Wide	4
Number of Crates High	5
Porosity (%)	95
Crate Length (m)	1
Crate Width (m)	1
Crate Height (m)	0.2
Total Volume (m³)	38.760

Project:	Date:		
OLDHAM ROAD MILES PLATTING SW Calcs	28/09/2026		
	Designed by:	Checked by:	Approved By:
	JG		
Report Details: Type: Connections Storm Phase: Surface Network 1	18-20 HARRINGTON STREET: L2 9QA LIVERPOOL		

Name	Length (m)	Connection Type	Slope (1:X)	Manning's n	Colebrook-White Roughness (mm)	Diameter / Base Width (mm)	Upstream Cover Level (m)	Upstream Invert Level (m)
PS10-PS11	8.434	Pipe	38.883		0.6	150	55.600	54.364
PS8-PS9	17.795	Pipe	40.261		0.6	150	55.670	55.070
PS9-PS10	21.075	Pipe	79.830		0.6	150	55.620	54.628
PS13-S14	11.412	Pipe	11.888		0.6	150	55.207	53.100
PS4-PS7	3.068	Pipe	10.976		0.6	150	55.339	53.665
PS7-PS12	10.209	Pipe	99.596		0.6	225	55.223	53.386
PS12-PS13	10.745	Pipe	58.718		0.6	225	55.360	53.283
PS6-PS7	11.574	Pipe	93.415		0.6	225	54.950	53.509
PS1-PS2	39.773	Pipe	67.757		0.6	150	55.690	55.090
PS5-S6	9.162	Pipe	98.938		0.6	225	54.758	53.602
PS2-PS5	19.994	Pipe	23.859		0.6	150	55.600	54.503
PS4-PS5	24.864	Pipe	35.019		0.6	150	55.600	54.375
PS11-PS12	22.142	Pipe	25.624		0.6	225	55.659	54.147
Pipe	2.843	Pipe	2.510		0.6	100	56.011	55.280
Pipe (1)	4.600	Pipe	2.460		0.6	100	55.625	54.970
Pipe (2)	2.187	Pipe	1.639		0.6	100	55.392	54.720
Pipe (3)	1.589	Pipe	1.573		0.6	100	55.273	54.520
Pipe (4)	1.651	Pipe	2.671		0.6	100	54.895	54.220
Pipe (5)	4.494	Pipe	118.274		0.6	225	55.400	53.640
Pipe (6)	6.297	Pipe	19.376		0.6	150	55.700	54.700

Name	Downstream Cover Level (m)	Downstream Invert Level (m)	Part Family	Lock	Flow Restriction (L/s)	Culvert Type	Culvert Entrance	Wall Thickness (mm)
PS10-PS11	55.659	54.147		None		(None)	(None)	0
PS8-PS9	55.620	54.628		None		(None)	(None)	0
PS9-PS10	55.600	54.364		None		(None)	(None)	0
PS13-S14	55.150	52.140		None	5.4	(None)	(None)	0
PS4-PS7	55.223	53.386		None		(None)	(None)	0
PS7-PS12	55.360	53.283		All		(None)	(None)	0
PS12-PS13	55.207	53.100		None		(None)	(None)	0
PS6-PS7	55.223	53.386		None		(None)	(None)	0
PS1-PS2	55.600	54.503		None		(None)	(None)	0
PS5-S6	54.950	53.509		None		(None)	(None)	0
PS2-PS5	55.339	53.665		None		(None)	(None)	0
PS4-PS5	55.339	53.665		None		(None)	(None)	0
PS11-PS12	55.360	53.283		All		(None)	(None)	0
Pipe	55.659	54.147		None		(None)	(None)	0
Pipe (1)	55.207	53.100		None	3.0	(None)	(None)	0
Pipe (2)	55.223	53.386		None	3.0	(None)	(None)	0
Pipe (3)	54.950	53.509		None	3.0	(None)	(None)	0
Pipe (4)	54.758	53.602		None	3.0	(None)	(None)	0
Pipe (5)	54.758	53.602		None		(None)	(None)	0
Pipe (6)	55.600	54.375		None		(None)	(None)	0

Name	Material	Trench Width (mm)	Bedding Material	Surrounding Material
PS10-PS11		0		
PS8-PS9		0		
PS9-PS10		0		
PS13-S14		0		
PS4-PS7		0		
PS7-PS12		0		
PS12-PS13		0		
PS6-PS7		0		
PS1-PS2		0		
PS5-S6		0		
PS2-PS5		0		
PS4-PS5		0		
PS11-PS12		0		
Pipe		0		
Pipe (1)		0		
Pipe (2)		0		
Pipe (3)		0		
Pipe (4)		0		
Pipe (5)		0		
Pipe (6)		0		

Project:	Date:		
OLDHAM ROAD MILES PLATTING SW Calcs	28/09/2026		
	Designed by:	Checked by:	Approved By:
	JG		
Report Details: Type: Inflow Summary Storm Phase: Surface Network 1	18-20 HARRINGTON STREET: L2 9QA LIVERPOOL		

Inflow Label	Connected To	Flow (L/s)	Runoff Method	Area (ha)	Percentage Impervious (%)	Urban Creep (%)	Adjusted Percentage Impervious (%)	Area Analysed (ha)
20.37m - 4.001	PS7		Time of Concentration	0.004	100	0	100	0.004
32.96m - 2.003	Porous Paving (2)		Time of Concentration	0.004	100	0	100	0.004
50.04m - 1.003	Porous Paving (3)		Time of Concentration	0.005	100	0	100	0.005
63.67m - 4.001	Porous Paving (1)		Time of Concentration	0.006	100	0	100	0.006
71.41m - 4.000	Porous Paving		Time of Concentration	0.005	100	0	100	0.005
91.70m - 1.002	PS11		Time of Concentration	0.006	100	0	100	0.006
102.04m - 1.002	PS11		Time of Concentration	0.011	100	0	100	0.011
107.36m - 2.001	PS2		Time of Concentration	0.011	100	0	100	0.011
127.40m - 1.000	PS9		Time of Concentration	0.013	100	0	100	0.013
149.47m - 1.004	Porous Paving (4)		Time of Concentration	0.015	100	0	100	0.015
197.48m - 3.000	PS4		Time of Concentration	0.018	100	0	100	0.018
267.47m - 1.003	Porous Paving (3)		Time of Concentration	0.026	100	0	100	0.026
271.66m - 2.000	PS1		Time of Concentration	0.030	100	0	100	0.030
Catchment Area	PS11		Time of Concentration	0.003	100	0	100	0.003
TOTAL		**0.0**		**0.157**				**0.157**

Project:	Date:			
OLDHAM ROAD MILES PLATTING SW Calcs	28/09/2026			
	Designed by: JG	Checked by:	Approved By:	
Report Details: Type: Outfall Details Storm Phase: Surface Network 1	18-20 HARRINGTON STREET: L2 9QA LIVERPOOL			

Outfalls

Outfall	Outfall Type	Gated	Fixed Surcharged Level (m)	Level Curve
Outfall	Free Discharge			

Runoff Type	Dynamic
Output Interval (mins)	5
Time Step	Default
Urban Creep	Use Catchment Values
Junction Flood Risk Margin (mm)	0
Perform No Discharge Analysis	☐

FSR: 2 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max. Inflow

Inflow	Storm Event	Inflow Area (ha)	Max. Inflow (L/s)	Total Inflow Volume (m^3)
71.41m - 4.000	FSR: 2 years: +0 %: 15 mins: Summer	0.01	1.1	0.455
271.66m - 2.000	FSR: 2 years: +0 %: 15 mins: Summer	0.03	6.1	2.627
91.70m - 1.002	FSR: 2 years: +0 %: 15 mins: Summer	0.01	1.2	0.509
107.36m - 2.001	FSR: 2 years: +0 %: 15 mins: Summer	0.01	2.2	0.974
267.47m - 1.003	FSR: 2 years: +0 %: 15 mins: Summer	0.03	5.2	2.274
149.47m - 1.004	FSR: 2 years: +0 %: 15 mins: Summer	0.02	3.1	1.339
127.40m - 1.000	FSR: 2 years: +0 %: 15 mins: Summer	0.01	2.6	1.114
197.48m - 3.000	FSR: 2 years: +0 %: 15 mins: Summer	0.02	3.5	1.540
102.04m - 1.002	FSR: 2 years: +0 %: 15 mins: Summer	0.01	2.1	0.917
63.67m - 4.001	FSR: 2 years: +0 %: 15 mins: Summer	0.01	1.1	0.491
32.96m - 2.003	FSR: 2 years: +0 %: 15 mins: Summer	0.00	0.7	0.306
20.37m - 4.001	FSR: 2 years: +0 %: 15 mins: Summer	0.00	0.8	0.336
50.04m - 1.003	FSR: 2 years: +0 %: 15 mins: Summer	0.00	1.0	0.431
Catchment Area	FSR: 2 years: +0 %: 15 mins: Summer	0.00	0.6	0.249

FSR: 30 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max. Inflow

Inflow	Storm Event	Inflow Area (ha)	Max. Inflow (L/s)	Total Inflow Volume (m^3)
71.41m - 4.000	FSR: 30 years: +0 %: 15 mins: Summer	0.01	2.0	0.864
271.66m - 2.000	FSR: 30 years: +0 %: 15 mins: Summer	0.03	11.4	4.971
91.70m - 1.002	FSR: 30 years: +0 %: 15 mins: Summer	0.01	2.2	0.963
107.36m - 2.001	FSR: 30 years: +0 %: 15 mins: Summer	0.01	4.2	1.839
267.47m - 1.003	FSR: 30 years: +0 %: 15 mins: Summer	0.03	9.9	4.299
149.47m - 1.004	FSR: 30 years: +0 %: 15 mins: Summer	0.02	5.8	2.535
127.40m - 1.000	FSR: 30 years: +0 %: 15 mins: Summer	0.01	4.9	2.112
197.48m - 3.000	FSR: 30 years: +0 %: 15 mins: Summer	0.02	6.7	2.910
102.04m - 1.002	FSR: 30 years: +0 %: 15 mins: Summer	0.01	4.0	1.737
63.67m - 4.001	FSR: 30 years: +0 %: 15 mins: Summer	0.01	2.2	0.936
32.96m - 2.003	FSR: 30 years: +0 %: 15 mins: Summer	0.00	1.3	0.573
20.37m - 4.001	FSR: 30 years: +0 %: 15 mins: Summer	0.00	1.5	0.639
50.04m - 1.003	FSR: 30 years: +0 %: 15 mins: Summer	0.00	1.9	0.819
Catchment Area	FSR: 30 years: +0 %: 15 mins: Summer	0.00	1.1	0.468

FSR: 100 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max. Inflow

Inflow	Storm Event	Inflow Area (ha)	Max. Inflow (L/s)	Total Inflow Volume (m³)
71.41m - 4.000	FSR: 100 years: +0 %: 15 mins: Summer	0.01	2.6	1.116
271.66m - 2.000	FSR: 100 years: +0 %: 15 mins: Summer	0.03	14.7	6.416
91.70m - 1.002	FSR: 100 years: +0 %: 15 mins: Summer	0.01	2.9	1.248
107.36m - 2.001	FSR: 100 years: +0 %: 15 mins: Summer	0.01	5.5	2.376
267.47m - 1.003	FSR: 100 years: +0 %: 15 mins: Summer	0.03	12.8	5.549
149.47m - 1.004	FSR: 100 years: +0 %: 15 mins: Summer	0.02	7.5	3.273
127.40m - 1.000	FSR: 100 years: +0 %: 15 mins: Summer	0.01	6.3	2.730
197.48m - 3.000	FSR: 100 years: +0 %: 15 mins: Summer	0.02	8.6	3.762
102.04m - 1.002	FSR: 100 years: +0 %: 15 mins: Summer	0.01	5.1	2.241
63.67m - 4.001	FSR: 100 years: +0 %: 15 mins: Summer	0.01	2.8	1.209
32.96m - 2.003	FSR: 100 years: +0 %: 15 mins: Summer	0.00	1.7	0.741
20.37m - 4.001	FSR: 100 years: +0 %: 15 mins: Summer	0.00	1.9	0.822
50.04m - 1.003	FSR: 100 years: +0 %: 15 mins: Summer	0.00	2.4	1.056
Catchment Area	FSR: 100 years: +0 %: 15 mins: Summer	0.00	1.4	0.606

Project:	Date:		
OLDHAM ROAD MILES PLATTING SW Calcs	28/09/2026 Designed by: JG	Checked by:	Approved By:
Report Details: Type: Inflows Summary Storm Phase: Surface Network 1	18-20 HARRINGTON STREET: L2 9QA LIVERPOOL		

FSR: 100 years: Increase Rainfall (%): +45: Critical Storm Per Item: Rank By: Max. Inflow

Inflow	Storm Event	Inflow Area (ha)	Max. Inflow (L/s)	Total Inflow Volume (m^3)
71.41m - 4.000	FSR: 100 years: +45 %: 15 mins: Summer	0.01	3.7	1.620
271.66m - 2.000	FSR: 100 years: +45 %: 15 mins: Summer	0.03	21.5	9.305
91.70m - 1.002	FSR: 100 years: +45 %: 15 mins: Summer	0.01	4.2	1.809
107.36m - 2.001	FSR: 100 years: +45 %: 15 mins: Summer	0.01	7.9	3.441
267.47m - 1.003	FSR: 100 years: +45 %: 15 mins: Summer	0.03	18.6	8.048
149.47m - 1.004	FSR: 100 years: +45 %: 15 mins: Summer	0.02	10.9	4.742
127.40m - 1.000	FSR: 100 years: +45 %: 15 mins: Summer	0.01	9.1	3.957
197.48m - 3.000	FSR: 100 years: +45 %: 15 mins: Summer	0.02	12.6	5.450
102.04m - 1.002	FSR: 100 years: +45 %: 15 mins: Summer	0.01	7.5	3.246
63.67m - 4.001	FSR: 100 years: +45 %: 15 mins: Summer	0.01	4.0	1.752
32.96m - 2.003	FSR: 100 years: +45 %: 15 mins: Summer	0.00	2.5	1.074
20.37m - 4.001	FSR: 100 years: +45 %: 15 mins: Summer	0.00	2.8	1.194
50.04m - 1.003	FSR: 100 years: +45 %: 15 mins: Summer	0.00	3.5	1.527
Catchment Area	FSR: 100 years: +45 %: 15 mins: Summer	0.00	2.0	0.879

Project:	Date:		
OLDHAM ROAD MILES PLATTING SW Calcs	28/09/2026 Designed by: JG	Checked by:	Approved By:
Report Details: Type: Junctions Summary Storm Phase: Surface Network 1	18-20 HARRINGTON STREET: L2 9QA LIVERPOOL		

FSR: 2 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max. Depth

Junction	Storm Event	Cover Level (m)	Invert Level (m)	Max. Level (m)	Max. Depth (m)	Max. Inflow (L/s)	Max. Resident Volume (m³)	Max. Flooded Volume (m³)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Status
PS6	FSR: 2 years: +0 %: 30 mins: Summer	54.758	53.602	53.728	0.126	3.4	0.180	0.000	1.6	2.441	OK
PS12	FSR: 2 years: +0 %: 15 mins: Summer	55.659	54.147	54.183	0.036	6.8	0.052	0.000	6.6	3.271	OK
PS4	FSR: 2 years: +0 %: 15 mins: Summer	55.600	54.375	54.409	0.034	3.5	0.005	0.000	3.5	1.540	OK
PS11	FSR: 2 years: +0 %: 15 mins: Summer	55.600	54.364	54.415	0.051	6.2	0.008	0.000	6.1	2.783	OK
PS10	FSR: 2 years: +0 %: 15 mins: Summer	55.620	54.628	54.663	0.035	2.5	0.006	0.000	2.4	1.109	OK
PS9	FSR: 2 years: +0 %: 15 mins: Summer	55.670	55.070	55.100	0.030	2.6	0.005	0.000	2.5	1.113	OK
Outfall	FSR: 2 years: +0 %: 60 mins: Winter	55.150	52.140	52.169	0.029	4.5	0.000	0.000	4.5	15.942	OK
PS14	FSR: 2 years: +0 %: 30 mins: Summer	55.207	53.100	53.728	0.628	6.6	1.599	0.000	4.5	11.862	Surcharged
PS13	FSR: 2 years: +0 %: 30 mins: Summer	55.360	53.283	53.729	0.446	11.8	0.788	0.000	6.5	11.824	Surcharged
PS8	FSR: 2 years: +0 %: 30 mins: Summer	55.223	53.386	53.728	0.343	7.9	0.606	0.000	7.5	8.952	Surcharged
PS5	FSR: 2 years: +0 %: 30 mins: Summer	55.339	53.665	53.732	0.067	7.8	0.019	0.000	7.8	6.769	OK
PS2	FSR: 2 years: +0 %: 15 mins: Summer	55.600	54.503	54.551	0.048	8.1	0.008	0.000	7.7	3.596	OK
PS1	FSR: 2 years: +0 %: 15 mins: Summer	55.690	55.090	55.145	0.055	6.1	0.009	0.000	5.8	2.627	OK
PS7	FSR: 2 years: +0 %: 30 mins: Summer	54.950	53.509	53.729	0.220	4.4	0.314	0.000	2.3	3.327	OK
PS3	FSR: 2 years: +0 %: 15 mins: Summer	55.700	54.700	54.700	0.000	0.0	0.000	0.000	0.0	0.000	OK

Project:	Date:		
OLDHAM ROAD MILES PLATTING SW Calcs	28/09/2026		
	Designed by:	Checked by:	Approved By:
	JG		
Report Details:	18-20 HARRINGTON STREET:		
Type: Junctions Summary Storm Phase: Surface Network 1	L2 9QA LIVERPOOL		

FSR: 30 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max. Depth

Junction	Storm Event	Cover Level (m)	Invert Level (m)	Max. Level (m)	Max. Depth (m)	Max. Inflow (L/s)	Max. Resident Volume (m³)	Max. Flooded Volume (m³)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Status
PS6	FSR: 30 years: +0 %: 60 mins: Summer	54.758	53.602	53.894	0.292	21.7	0.419	0.000	3.3	19.705	Surcharged
PS12	FSR: 30 years: +0 %: 15 mins: Summer	55.659	54.147	54.200	0.052	13.4	0.075	0.000	13.1	6.214	OK
PS4	FSR: 30 years: +0 %: 15 mins: Summer	55.600	54.375	54.423	0.048	6.7	0.008	0.000	6.5	2.905	OK
PS11	FSR: 30 years: +0 %: 15 mins: Summer	55.600	54.364	54.437	0.073	11.9	0.012	0.000	11.6	5.272	OK
PS10	FSR: 30 years: +0 %: 15 mins: Summer	55.620	54.628	54.677	0.049	4.8	0.008	0.000	4.6	2.105	OK
PS9	FSR: 30 years: +0 %: 15 mins: Summer	55.670	55.070	55.112	0.042	4.9	0.007	0.000	4.8	2.110	OK
Outfall	FSR: 30 years: +0 %: 30 mins: Summer	55.150	52.140	52.169	0.029	4.5	0.000	0.000	4.5	13.624	OK
PS14	FSR: 30 years: +0 %: 30 mins: Summer	55.207	53.100	53.896	0.796	7.0	2.026	0.000	4.5	13.660	Surcharged
PS13	FSR: 30 years: +0 %: 30 mins: Summer	55.360	53.283	53.896	0.613	11.2	1.083	0.000	6.7	16.469	Surcharged
PS8	FSR: 30 years: +0 %: 60 mins: Summer	55.223	53.386	53.894	0.508	19.3	0.898	0.000	4.5	29.894	Surcharged
PS5	FSR: 30 years: +0 %: 30 mins: Summer	55.339	53.665	53.933	0.268	14.9	0.076	0.000	15.6	12.651	Surcharged
PS2	FSR: 30 years: +0 %: 15 mins: Summer	55.600	54.503	54.572	0.069	15.3	0.011	0.000	15.2	6.794	OK
PS1	FSR: 30 years: +0 %: 15 mins: Summer	55.690	55.090	55.170	0.080	11.4	0.013	0.000	11.0	4.969	OK
PS7	FSR: 30 years: +0 %: 60 mins: Summer	54.950	53.509	53.895	0.385	21.0	0.552	0.000	3.6	21.593	Surcharged
PS3	FSR: 30 years: +0 %: 15 mins: Summer	55.700	54.700	54.700	0.000	0.0	0.000	0.000	0.0	0.000	OK

Project:	Date:		
OLDHAM ROAD MILES PLATTING SW Calcs	28/09/2026		
	Designed by:	Checked by:	Approved By:
	JG		
Report Details:	18-20 HARRINGTON STREET:		
Type: Junctions Summary Storm Phase: Surface Network 1	L2 9QA LIVERPOOL		

FSR: 100 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max. Depth

Junction	Storm Event	Cover Level (m)	Invert Level (m)	Max. Level (m)	Max. Depth (m)	Max. Inflow (L/s)	Max. Resident Volume (m³)	Max. Flooded Volume (m³)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Status
PS6	FSR: 100 years: +0 %: 60 mins: Winter	54.758	53.602	54.093	0.491	19.0	0.702	0.000	3.3	27.492	Surcharged
PS12	FSR: 100 years: +0 %: 15 mins: Summer	55.659	54.147	54.208	0.060	17.4	0.087	0.000	17.1	8.057	OK
PS4	FSR: 100 years: +0 %: 15 mins: Summer	55.600	54.375	54.429	0.054	8.6	0.009	0.000	8.5	3.740	OK
PS11	FSR: 100 years: +0 %: 15 mins: Summer	55.600	54.364	54.450	0.086	15.3	0.014	0.000	15.0	6.816	OK
PS10	FSR: 100 years: +0 %: 15 mins: Summer	55.620	54.628	54.684	0.056	6.2	0.009	0.000	5.9	2.723	OK
PS9	FSR: 100 years: +0 %: 15 mins: Summer	55.670	55.070	55.118	0.048	6.3	0.008	0.000	6.2	2.727	OK
Outfall	FSR: 100 years: +0 %: 240 mins: Winter	55.150	52.140	52.169	0.029	4.5	0.000	0.000	4.5	66.980	OK
PS14	FSR: 100 years: +0 %: 60 mins: Winter	55.207	53.100	54.092	0.992	7.0	2.523	0.000	4.5	26.490	Surcharged
PS13	FSR: 100 years: +0 %: 60 mins: Winter	55.360	53.283	54.092	0.809	9.4	1.430	0.000	6.8	29.744	Surcharged
PS8	FSR: 100 years: +0 %: 60 mins: Winter	55.223	53.386	54.092	0.707	17.7	1.248	0.000	4.1	34.700	Surcharged
PS5	FSR: 100 years: +0 %: 60 mins: Winter	55.339	53.665	54.093	0.428	13.8	0.121	0.000	13.4	21.040	Surcharged
PS2	FSR: 100 years: +0 %: 15 mins: Summer	55.600	54.503	54.581	0.078	19.7	0.012	0.000	19.1	8.757	OK
PS1	FSR: 100 years: +0 %: 15 mins: Summer	55.690	55.090	55.184	0.094	14.7	0.015	0.000	14.2	6.415	OK
PS7	FSR: 100 years: +0 %: 60 mins: Winter	54.950	53.509	54.093	0.584	18.6	0.835	0.000	3.5	28.766	Surcharged
PS3	FSR: 100 years: +0 %: 15 mins: Summer	55.700	54.700	54.700	0.000	0.0	0.000	0.000	0.0	0.000	OK

Project:	Date:		
OLDHAM ROAD MILES PLATTING SW Calcs	28/09/2026 Designed by: JG	Checked by:	Approved By:
Report Details: Type: Junctions Summary Storm Phase: Surface Network 1	18-20 HARRINGTON STREET: L2 9QA LIVERPOOL		

FSR: 100 years: Increase Rainfall (%): +45: Critical Storm Per Item: Rank By: Max. Depth

Junction	Storm Event	Cover Level (m)	Invert Level (m)	Max. Level (m)	Max. Depth (m)	Max. Inflow (L/s)	Max. Resident Volume (m³)	Max. Flooded Volume (m³)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Status
PS6	FSR: 100 years: +45 %: 120 mins: Winter	54.758	53.602	54.452	0.850	17.4	1.217	0.000	3.0	51.935	Surcharged
PS12	FSR: 100 years: +45 %: 120 mins: Winter	55.659	54.147	54.452	0.305	8.7	0.436	0.000	8.7	26.568	Surcharged
PS4	FSR: 100 years: +45 %: 120 mins: Winter	55.600	54.375	54.453	0.078	4.0	0.012	0.000	4.0	11.608	OK
PS11	FSR: 100 years: +45 %: 15 mins: Summer	55.600	54.364	54.476	0.112	22.3	0.018	0.000	21.8	9.877	OK
PS10	FSR: 100 years: +45 %: 15 mins: Summer	55.620	54.628	54.697	0.069	9.0	0.011	0.000	8.7	3.948	OK
PS9	FSR: 100 years: +45 %: 15 mins: Summer	55.670	55.070	55.129	0.059	9.1	0.009	0.000	9.0	3.954	OK
Outfall	FSR: 100 years: +45 %: 240 mins: Summer	55.150	52.140	52.169	0.029	4.5	0.000	0.000	4.5	98.425	OK
PS14	FSR: 100 years: +45 %: 120 mins: Winter	55.207	53.100	54.451	1.351	6.1	3.438	0.000	4.5	55.620	Surcharged
PS13	FSR: 100 years: +45 %: 120 mins: Winter	55.360	53.283	54.452	1.169	8.7	2.065	0.000	5.8	58.716	Surcharged
PS8	FSR: 100 years: +45 %: 120 mins: Winter	55.223	53.386	54.452	1.066	17.1	1.884	0.000	3.5	65.230	Surcharged
PS5	FSR: 100 years: +45 %: 120 mins: Winter	55.339	53.665	54.453	0.788	13.3	0.223	0.000	12.7	38.029	Surcharged
PS2	FSR: 100 years: +45 %: 15 mins: Summer	55.600	54.503	54.636	0.133	28.8	0.021	0.000	21.9	12.662	OK
PS1	FSR: 100 years: +45 %: 15 mins: Summer	55.690	55.090	55.216	0.126	21.5	0.020	0.000	20.9	9.246	OK
PS7	FSR: 100 years: +45 %: 120 mins: Winter	54.950	53.509	54.452	0.943	17.7	1.350	0.000	3.2	54.655	Surcharged
PS3	FSR: 100 years: +45 %: 15 mins: Summer	55.700	54.700	54.700	0.000	0.0	0.000	0.000	0.0	0.000	OK

FSR: 2 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max. Avg. Depth

Stormwater Control	Storm Event	Max. US Level (m)	Max. DS Level (m)	Max. US Depth (m)	Max. DS Depth (m)	Max. Inflow (L/s)	Max. Resident Volume (m³)	Max. Flooded Volume (m³)	Total Lost Volume (m³)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Percentage Available (%)	Status
Porous Paving	FSR: 2 years: +0 %: 480 mins: Summer	54.480	54.231	0.065	0.011	0.2	0.712	0.000	0.000	0.1	1.230	84.734	OK
Porous Paving (1)	FSR: 2 years: +0 %: 960 mins: Summer	54.846	54.529	0.052	0.009	0.1	0.776	0.000	0.000	0.1	1.843	85.787	OK
Porous Paving (2)	FSR: 2 years: +0 %: 960 mins: Summer	54.971	54.728	0.059	0.008	0.1	0.342	0.000	0.000	0.0	1.190	90.713	OK
Porous Paving (3)	FSR: 2 years: +0 %: 1440 mins: Winter	55.606	55.284	0.075	0.004	0.3	7.361	0.000	0.000	0.1	7.811	77.820	OK
Porous Paving (4)	FSR: 2 years: +0 %: 1440 mins: Summer	55.219	54.983	0.074	0.013	0.3	2.725	0.000	0.000	0.1	5.042	82.755	OK
Cellular Storage	FSR: 2 years: +0 %: 30 mins: Summer	53.673	53.673	0.033	0.033	3.9	1.260	0.000	0.000	1.1	0.922	96.748	OK

Project:	Date:		
OLDHAM ROAD MILES PLATTING SW Calcs	28/09/2026 Designed by: JG	Checked by:	Approved By:
Report Details: Type: Stormwater Controls Summary Storm Phase: Surface Network 1	18-20 HARRINGTON STREET: L2 9QA LIVERPOOL		

FSR: 30 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max. Avg. Depth

Stormwater Control	Storm Event	Max. US Level (m)	Max. DS Level (m)	Max. US Depth (m)	Max. DS Depth (m)	Max. Inflow (L/s)	Max. Resident Volume (m³)	Max. Flooded Volume (m³)	Total Lost Volume (m³)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Percentage Available (%)	Status
Porous Paving	FSR: 30 years: +0 %: 480 mins: Summer	54.534	54.236	0.120	0.016	0.4	1.222	0.000	0.000	0.1	2.225	73.804	OK
Porous Paving (1)	FSR: 30 years: +0 %: 360 mins: Summer	54.901	54.538	0.108	0.018	0.5	1.337	0.000	0.000	0.2	2.112	75.497	OK
Porous Paving (2)	FSR: 30 years: +0 %: 360 mins: Summer	55.016	54.737	0.104	0.017	0.3	0.602	0.000	0.000	0.2	1.426	83.659	OK
Porous Paving (3)	FSR: 30 years: +0 %: 1440 mins: Winter	55.668	55.285	0.137	0.005	0.6	12.228	0.000	0.000	0.2	14.236	63.155	OK
Porous Paving (4)	FSR: 30 years: +0 %: 1440 mins: Summer	55.277	54.989	0.132	0.019	0.4	4.517	0.000	0.000	0.2	8.908	71.418	OK
Cellular Storage	FSR: 30 years: +0 %: 60 mins: Summer	53.895	53.895	0.255	0.255	22.0	9.673	0.000	0.000	3.1	9.094	75.044	OK

Project:	Date:		
OLDHAM ROAD MILES PLATTING SW Calcs	28/09/2026		
	Designed by: JG	Checked by:	Approved By:
Report Details: Type: Stormwater Controls Summary Storm Phase: Surface Network 1	18-20 HARRINGTON STREET: L2 9QA LIVERPOOL		

FSR: 100 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max. Avg. Depth

Stormwater Control	Storm Event	Max. US Level (m)	Max. DS Level (m)	Max. US Depth (m)	Max. DS Depth (m)	Max. Inflow (L/s)	Max. Resident Volume (m³)	Max. Flooded Volume (m³)	Total Lost Volume (m³)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Percentage Available (%)	Status
Porous Paving	FSR: 100 years: +0 %: 480 mins: Summer	54.572	54.239	0.157	0.019	0.5	1.557	0.000	0.000	0.2	2.940	66.611	OK
Porous Paving (1)	FSR: 100 years: +0 %: 480 mins: Summer	54.932	54.540	0.139	0.020	0.5	1.702	0.000	0.000	0.2	3.194	68.810	OK
Porous Paving (2)	FSR: 100 years: +0 %: 360 mins: Summer	55.045	54.740	0.133	0.020	0.4	0.762	0.000	0.000	0.2	1.856	79.298	OK
Porous Paving (3)	FSR: 100 years: +0 %: 1440 mins: Summer	55.709	55.286	0.178	0.006	1.2	15.166	0.000	0.000	0.3	18.448	54.301	OK
Porous Paving (4)	FSR: 100 years: +0 %: 960 mins: Summer	55.315	54.996	0.170	0.026	0.8	5.635	0.000	0.000	0.3	9.506	64.342	OK
Cellular Storage	FSR: 100 years: +0 %: 60 mins: Winter	54.093	54.093	0.453	0.453	19.6	17.206	0.000	0.000	3.2	9.656	55.608	OK

Project:	Date:		
OLDHAM ROAD MILES PLATTING SW Calcs	28/09/2026		
	Designed by:	Checked by:	Approved By:
	JG		
Report Details:	18-20 HARRINGTON STREET:		
Type: Stormwater Controls Summary Storm Phase: Surface Network 1	L2 9QA LIVERPOOL		

FSR: 100 years: Increase Rainfall (%): +45: Critical Storm Per Item: Rank By: Max. Avg. Depth

Stormwater Control	Storm Event	Max. US Level (m)	Max. DS Level (m)	Max. US Depth (m)	Max. DS Depth (m)	Max. Inflow (L/s)	Max. Resident Volume (m³)	Max. Flooded Volume (m³)	Total Lost Volume (m³)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Percentage Available (%)	Status
Porous Paving	FSR: 100 years: +45 %: 120 mins: Winter	54.630	54.453	0.215	0.233	1.3	3.047	0.000	0.000	0.4	2.430	34.664	OK
Porous Paving (1)	FSR: 100 years: +45 %: 360 mins: Summer	54.999	54.548	0.206	0.028	0.9	2.395	0.000	0.000	0.3	4.096	56.112	OK
Porous Paving (2)	FSR: 100 years: +45 %: 360 mins: Summer	55.099	54.746	0.187	0.026	0.5	1.069	0.000	0.000	0.3	2.731	70.976	OK
Porous Paving (3)	FSR: 100 years: +45 %: 1440 mins: Summer	55.796	55.288	0.265	0.008	1.7	21.247	0.000	0.000	0.5	27.932	35.979	OK
Porous Paving (4)	FSR: 100 years: +45 %: 960 mins: Summer	55.391	55.005	0.246	0.035	1.1	7.888	0.000	0.000	0.5	14.236	50.090	OK
Cellular Storage	FSR: 100 years: +45 %: 120 mins: Winter	54.452	54.452	0.812	0.812	16.8	30.861	0.000	0.000	2.8	17.702	20.380	OK