

1 Medlock St: 1yr Event	Date: 27/02/0024		
	Designed by: JT	Checked by: JT	Approved By: AW
Report Details: Type: Inflows Storm Phase: Phase	Roscoe:		



Catchment Area

Type : Catchment Area

Area (ha)	0.026
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Dynamic Sizing

Runoff Method	Time of Concentration
Summer Volumetric Runoff	0.750
Winter Volumetric Runoff	0.840
Time of Concentration (mins)	5
Percentage Impervious (%)	100



Catchment Area (1)

Type : Catchment Area

Area (ha)	0.044
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Dynamic Sizing

Runoff Method	Time of Concentration
Summer Volumetric Runoff	0.750
Winter Volumetric Runoff	0.840
Time of Concentration (mins)	5
Percentage Impervious (%)	100



Catchment Area (2)

Type : Catchment Area

Area (ha)	0.029
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Dynamic Sizing

Runoff Method	Time of Concentration
Summer Volumetric Runoff	0.750
Winter Volumetric Runoff	0.840
Time of Concentration (mins)	5
Percentage Impervious (%)	100



Catchment Area (3)

Type : Catchment Area

Area (ha)	0.037
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Dynamic Sizing

Runoff Method	Time of Concentration
Summer Volumetric Runoff	0.750
Winter Volumetric Runoff	0.840
Time of Concentration (mins)	5
Percentage Impervious (%)	100

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Catchment Area (4)

Type : Catchment Area

Area (ha)	0.035
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Dynamic Sizing

Runoff Method	Time of Concentration
Summer Volumetric Runoff	0.750
Winter Volumetric Runoff	0.840
Time of Concentration (mins)	5
Percentage Impervious (%)	100



Catchment Area (5)

Type : Catchment Area

Area (ha)	0.016
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Dynamic Sizing

Runoff Method	Time of Concentration
Summer Volumetric Runoff	0.750
Winter Volumetric Runoff	0.840
Time of Concentration (mins)	5
Percentage Impervious (%)	100



Catchment Area (6)

Type : Catchment Area

Area (ha)	0.046
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Dynamic Sizing

Runoff Method	Time of Concentration
Summer Volumetric Runoff	0.750
Winter Volumetric Runoff	0.840
Time of Concentration (mins)	5
Percentage Impervious (%)	100



Catchment Area (7)

Type : Catchment Area

Area (ha)	0.013
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Dynamic Sizing

Runoff Method	Time of Concentration
Summer Volumetric Runoff	0.750
Winter Volumetric Runoff	0.840
Time of Concentration (mins)	5
Percentage Impervious (%)	100

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Report Details: Type: Inflows Storm Phase: Phase	Roscoe:			



Catchment Area (8)

Type : Catchment Area

Area (ha)	0.013
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Dynamic Sizing

Runoff Method	Time of Concentration
Summer Volumetric Runoff	0.750
Winter Volumetric Runoff	0.840
Time of Concentration (mins)	5
Percentage Impervious (%)	100

1 Medlock St: 1yr Event	Date: 27/02/0024		
	Designed by: JT	Checked by: JT	Approved By: AW
	Roscoe:		
Report Details: Type: Junctions Storm Phase: Phase			

Name	Junction Type	Easting (m)	Northing (m)	Cover Level (m)	Depth (m)	Invert Level (m)	Chamber Shape	Diameter (m)
SWMH01	Manhole	383643.829	397161.270	34.150	1.225	32.925	Circular	1.200
SWMH02	Manhole	383646.577	397149.170	34.050	1.200	32.850	Circular	1.200
SWMH03	Manhole	383626.818	397137.888	33.800	1.918	31.882	Circular	1.200
SWMH04	Manhole	383619.336	397149.930	34.200	2.450	31.750	Circular	1.200
SWMH05	Manhole	383609.340	397167.876	34.200	3.386	30.814	Circular	1.200
SWMH07	Manhole	383619.102	397207.276	34.050	1.225	32.825	Circular	1.200
SWMH08	Manhole	383614.016	397213.882	34.070	1.325	32.745	Circular	1.200
SWMH09	Manhole	383593.556	397203.301	34.200	2.303	31.897	Circular	1.200
SWMH10	Manhole	383601.156	397184.946	34.200	3.390	30.810	Circular	1.200
SWMH06	Manhole	383604.146	397177.171	34.200	3.450	30.750	Circular	1.200
Outfall	Manhole	383598.977	397174.665	34.500	3.900	30.600	Circular	1.200

Name	Lock
SWMH01	None
SWMH02	None
SWMH03	None
SWMH04	None
SWMH05	None
SWMH07	None
SWMH08	None
SWMH09	None
SWMH10	None
SWMH06	None
Outfall	None

1 Medlock St: 1yr Event	Date: 27/02/0024		
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Report Details: Type: Stormwater Controls Storm Phase: Phase	Roscoe:		



Attenuation Tank 1

Type : Tank

Dimensions

Exceedence Level (m)	34.250
Depth (m)	2.250
Base Level (m)	32.000
Freeboard (mm)	0
Initial Depth (m)	0.000
Porosity (%)	100
Average Slope (1:x)	0.00
Total Volume (m³)	41.250

Depth (m)	Area (m²)	Volume (m³)
0.000	40.00	0.000
1.000	40.00	40.000

Advanced

Perimeter	Circular
Length (m)	13.940



Attenuation Tank 2

Type : Tank

Dimensions

Exceedence Level (m)	34.100
Depth (m)	2.100
Base Level (m)	32.000
Freeboard (mm)	0
Initial Depth (m)	0.000
Porosity (%)	100
Average Slope (1:x)	0.00
Total Volume (m³)	31.100

Depth (m)	Area (m²)	Volume (m³)
0.000	30.00	0.000
1.000	30.00	30.000

Advanced

Perimeter	Circular
Length (m)	11.999

1 Medlock St: 1yr Event	Date: 27/02/0024		
	Designed by: JT	Checked by: JT	Approved By: AW
Report Details: Type: Manhole Schedule Storm Phase: Phase	Roscoe:		



Name	Cover Level (m) Invert Level (m)		Connection Details				Type
Coordinates (m)	Depth (m)	Manhole Size (m)	Incoming Connections	Connection Type	Connection Invert (m)	Connection Size (mm)	Junction Type
			Outgoing Connections				Cover
SWMH01	34.150 32.925	Diameter / Length: 1.200					Manhole
E:383643.829	1.225						
N:397161.270			{a} MH01 -> MH02	Pipe	32.925	Diam/Width:225	Not Applicable
SWMH02	34.050 32.850	Diameter / Length: 1.200	{1} MH01 -> MH02	Pipe	32.850	Diam/Width:225	Manhole
E:383646.577	1.200						
N:397149.170			{a} MH02 -> Tank 2	Pipe	32.850	Diam/Width:225	Not Applicable
SWMH03	33.800 31.882	Diameter / Length: 1.200	{1} Tank 2 -> MH03	Pipe	31.882	Diam/Width:225	Manhole
E:383626.818	1.918						
N:397137.888			{a} MH03 -> MH04	Pipe	31.882	Diam/Width:300	Not Applicable
SWMH04	34.200 31.750	Diameter / Length: 1.200	{1} MH03 -> MH04	Pipe	31.750	Diam/Width:300	Manhole
E:383619.336	2.450						
N:397149.930			{a} MH04 -> MH05	Pipe	31.750	Diam/Width:300	Not Applicable
SWMH05	34.200 30.814	Diameter / Length: 1.200	{1} MH04 -> MH05	Pipe	31.574	Diam/Width:300	Manhole
E:383609.340	3.386						
N:397167.876			{a} MH05 -> MH06	Pipe	30.814	Diam/Width:300	Not Applicable

1 Medlock St: 1yr Event	Date: 27/02/0024		
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Report Details: Type: Manhole Schedule Storm Phase: Phase	Roscoe:		



Name	Cover Level (m) Invert Level (m)		Connection Details				Type
Coordinates (m)	Depth (m)	Manhole Size (m)	Incoming Connections	Connection Type	Connection Invert (m)	Connection Size (mm)	Junction Type
			Outgoing Connections				Cover
SWMH07	34.050 32.825	Diameter / Length: 1.200					Manhole
E:383619.102	1.225						
N:397207.276			{a} MH07 -> MH08	Pipe	32.825	Diam/Width:225	Not Applicable
SWMH08	34.070 32.745	Diameter / Length: 1.200	{1} MH07 -> MH08	Pipe	32.745	Diam/Width:225	Manhole
E:383614.016	1.325						
N:397213.882			{a} MH08 -> Tank 1	Pipe	32.745	Diam/Width:225	Not Applicable
SWMH09	34.200 31.897	Diameter / Length: 1.200	{1} Tank 1 -> MH09	Pipe	31.897	Diam/Width:225	Manhole
E:383593.556	2.303						
N:397203.301			{a} MH09 -> MH10	Pipe	31.897	Diam/Width:300	Not Applicable
SWMH10	34.200 30.810	Diameter / Length: 1.200	{1} MH09 -> MH10	Pipe	31.742	Diam/Width:300	Manhole
E:383601.156	3.390						
N:397184.946			{a} MH10 -> MH06	Pipe	30.810	Diam/Width:300	Not Applicable
SWMH06	34.200 30.750	Diameter / Length: 1.200	{1} MH05 -> MH06	Pipe	30.750	Diam/Width:300	Manhole
E:383604.146	3.450		{2} MH10 -> MH06	Pipe	30.750	Diam/Width:300	
N:397177.171			{a} MH06 -> Outfall	Pipe	30.750	Diam/Width:225	Not Applicable

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Report Details: Type: Manhole Schedule Storm Phase: Phase	Roscoe:		



Name	Cover Level (m) Invert Level (m)	Manhole Size (m)	Connection Details				Type
Coordinates (m)	Depth (m)		Incoming Connections	Connection Type	Connection Invert (m)	Connection Size (mm)	Junction Type
			Outgoing Connections				Cover
Outfall	34.500 30.600	Diameter / Length: 1.200	{1} MH06 -> Outfall	Pipe	30.600	Diam/Width:225	Manhole
E:383598.977 N:397174.665	3.900						Not Applicable

1 Medlock St: 1yr Event	Date: 27/02/0024		
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Report Title: Rainfall Analysis Criteria	Roscoe:		



Runoff Type	Dynamic
Output Interval (mins)	5
Time Step	Default
Urban Creep	Apply Global Value
Urban Creep Global Value (%)	0
Junction Flood Risk Margin (mm)	300
Perform No Discharge Analysis	☐

Rainfall

FSR	Type: FSR
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Region	England and Wales
M5-60 (mm)	18.0
Ratio R	0.362
Summer	☒
Winter	☒

Return Period

Return Period (years)	Increase Rainfall (%)
1.0	0

Storm Durations

Duration (mins)	Run Time (mins)
15	30
30	60
60	120
120	240
240	480
360	720
480	960
960	1920
1440	2880

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Report Details: Type: Inflows Summary Storm Phase: Phase	Roscoe:		



Critical Storm

Inflow	Storm Event	Inflow Area (ha)	Max. Inflow (L/s)	Total Inflow (m³)
Catchment Area	FSR: 1 years: +0 %: 15 mins: Winter	0.03	3.2	1.489
Catchment Area (1)	FSR: 1 years: +0 %: 15 mins: Winter	0.04	5.3	2.465
Catchment Area (2)	FSR: 1 years: +0 %: 15 mins: Winter	0.03	3.5	1.642
Catchment Area (3)	FSR: 1 years: +0 %: 15 mins: Winter	0.04	4.6	2.109
Catchment Area (4)	FSR: 1 years: +0 %: 15 mins: Winter	0.03	4.2	1.965
Catchment Area (5)	FSR: 1 years: +0 %: 15 mins: Winter	0.02	2.0	0.908
Catchment Area (6)	FSR: 1 years: +0 %: 15 mins: Winter	0.05	5.7	2.618
Catchment Area (7)	FSR: 1 years: +0 %: 15 mins: Winter	0.01	1.6	0.749
Catchment Area (8)	FSR: 1 years: +0 %: 15 mins: Winter	0.01	1.6	0.737

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Report Details: Type: Junctions Summary Storm Phase: Phase	Roscoe:		



Critical Storm

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
SWMH01	FSR: 1 years: +0 %: 15 mins: Winter	34.15 0	32.92 5	32.982	0.057	5.3	0.064	0.000	5.2	2.462	OK
SWMH02	FSR: 1 years: +0 %: 15 mins: Winter	34.05 0	32.85 0	32.885	0.035	8.4	0.039	0.000	8.3	3.953	OK
SWMH03	FSR: 1 years: +0 %: 30 mins: Winter	33.80 0	31.88 2	31.937	0.055	7.6	0.062	0.000	7.5	7.149	OK
SWMH04	FSR: 1 years: +0 %: 15 mins: Winter	34.20 0	31.75 0	31.817	0.067	11.6	0.076	0.000	10.4	7.208	OK
SWMH05	FSR: 1 years: +0 %: 15 mins: Winter	34.20 0	30.81 4	31.478	0.664	12.0	0.751	0.000	9.1	7.908	Surcharged
SWMH07	FSR: 1 years: +0 %: 15 mins: Winter	34.05 0	32.82 5	32.871	0.046	4.2	0.052	0.000	4.1	1.964	OK
SWMH08	FSR: 1 years: +0 %: 15 mins: Winter	34.07 0	32.74 5	32.778	0.033	6.1	0.037	0.000	6.0	2.873	OK
SWMH09	FSR: 1 years: +0 %: 30 mins: Winter	34.20 0	31.89 7	31.951	0.054	6.8	0.062	0.000	6.7	6.866	OK
SWMH10	FSR: 1 years: +0 %: 15 mins: Winter	34.20 0	30.81 0	31.478	0.668	8.2	0.755	0.000	5.6	5.506	Surcharged
SWMH06	FSR: 1 years: +0 %: 15 mins: Winter	34.20 0	30.75 0	31.477	0.727	14.7	0.823	0.000	11.0	13.165	Surcharged
Outfall	FSR: 1 years: +0 %: 30 mins: Winter	34.50 0	30.60 0	30.667	0.067	16.4	0.000	0.000	16.4	18.633	OK

1 Medlock St: 1yr Event	Date: 27/02/0024		
	Designed by: JT	Checked by: JT	Approved By: AW
Report Details: Type: Stormwater Controls Summary Storm Phase: Phase	Roscoe:		



Critical Storm

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
Attenuation Tank 1	FSR: 1 years: +0 %: 30 mins: Winter	32.039	32.039	0.039	0.039	4.1	1.541	0.000	0.000	3.1	3.430	96	OK
Attenuation Tank 2	FSR: 1 years: +0 %: 30 mins: Winter	32.050	32.050	0.050	0.050	5.7	1.499	0.000	0.000	5.2	4.998	95	OK

1 Medlock St: 1yr Event	Date: 27/02/0024			
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Report Details: Type: Connections Summary Storm Phase: Phase	Roscoe:			



Critical Storm

1 Medlock St: 1yr Event	Date: 27/02/0024		
	Designed by: JT	Checked by: JT	Approved By: AW
Report Details: Type: Connections Summary Storm Phase: Phase		Roscoe:	



Connection	Storm Event	Connection Type	From	To	Upstream Cover Level (m)	Max. US Water Level (m)	Max. Flow Depth (m)	Discharge Volume (m³)	Max. Velocity (m/s)	Flow / Capacity	Max. Flow (L/s)	Status
MH01 -> MH02	FSR: 1 years: +0 %: 15 mins: Winter	Pipe	SWMH01	SWMH02	34.2	32.982	0.046	2.462	0.9	0.13	5.2	OK
MH02 -> Tank 2	FSR: 1 years: +0 %: 15 mins: Winter	Pipe	SWMH02	Attenuation Tank 2	34.1	32.885	0.039	3.953	2.0	0.05	8.3	OK
Tank 2 -> MH03	FSR: 1 years: +0 %: 30 mins: Winter	Pipe	Attenuation Tank 2	SWMH03	34.1	32.050	0.053	4.998	0.7	0.1	5.2	OK
MH03 -> MH04	FSR: 1 years: +0 %: 30 mins: Winter	Pipe	SWMH03	SWMH04	33.8	31.937	0.061	7.149	0.7	0.07	7.5	OK
MH04 -> MH05	FSR: 1 years: +0 %: 30 mins: Winter	Pipe	SWMH04	SWMH05	34.2	31.817	0.065	9.909	0.9	0.1	10.5	OK
MH05 -> MH06	FSR: 1 years: +0 %: 30 mins: Winter	Pipe	SWMH05	SWMH06	34.2	31.186	0.300	10.865	0.2	0.12	10.6	Surcharged
MH07 -> MH08	FSR: 1 years: +0 %: 15 mins: Winter	Pipe	SWMH07	SWMH08	34.1	32.871	0.039	1.964	0.9	0.08	4.1	OK
MH08 -> Tank 1	FSR: 1 years: +0 %: 15 mins: Winter	Pipe	SWMH08	Attenuation Tank 1	34.1	32.778	0.030	2.873	1.9	0.04	6.0	OK
Tank 1 -> MH09	FSR: 1 years: +0 %: 30 mins: Winter	Pipe	Attenuation Tank 1	SWMH09	34.3	32.039	0.046	3.430	0.6	0.06	3.1	OK
MH09 -> MH10	FSR: 1 years: +0 %: 30 mins: Winter	Pipe	SWMH09	SWMH10	34.2	31.951	0.054	6.866	0.8	0.07	6.7	OK
MH10 -> MH06	FSR: 1 years: +0 %: 30 mins: Winter	Pipe	SWMH10	SWMH06	34.2	31.185	0.300	7.844	0.2	0.07	6.8	Surcharged
MH06 -> Outfall	FSR: 1 years: +0 %: 30 mins: Winter	Pipe	SWMH06	Outfall	34.2	31.184	0.071	18.633	1.5	0.19	16.4	Surcharged

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Report Details: Type: Phase Management Storm Phase: Phase	Roscoe:			



Phase

FSR: 1 years: Increase Rainfall (%): +0: 30 mins: Winter

Tables

Name	Max. Inflow (L/s)	Total Inflow Volume (m³)	Max. Outflow (L/s)	Total Outflow Volume (m³)
Outfall			16.4	18.633
TOTAL	21.0	19.375	16.4	18.633

Graphs

