


Project: ADMIRAL	Date: 09/03/2026		
	Designed by: TG & JH	Checked by: DML	Approved By: DML
Report Details: Type: Junctions Storm Phase: D4 Design	Company: Lally Chartered Engineers		




Name	Junction Type	Easting (m)	Northing (m)	Cover Level (m)	Depth (m)	Invert Level (m)	Chamber Shape	Diameter (m)
MH 4.11	Manhole	644728.482	739059.204	103.000	1.394	101.606	Circular	1.500
MH 4.13	Manhole	644814.343	739016.663	102.900	1.773	101.127	Circular	1.500
MH 4.6	Manhole	644849.012	739083.224	103.080	2.328	100.752	Circular	1.800
MH 4.8	Manhole	644798.119	739108.568	103.180	2.144	101.036	Circular	1.500
MH 4.7	Manhole	644749.259	739131.927	102.900	1.503	101.397	Circular	1.500
MH 4.10	Manhole	644732.424	739099.262	103.080	1.438	101.642	Circular	1.200
MH 4.9	Manhole	644832.746	739050.130	103.080	2.144	100.936	Circular	1.500
MH 4.12	Manhole	644764.870	739040.730	103.180	1.778	101.402	Circular	1.500
MH 4.5	Manhole	644861.393	739112.167	103.000	2.090	100.910	Circular	1.200
MH 4.1	Manhole	644954.469	739102.699	102.750	1.350	101.400	Circular	1.200
MH 4.3	Manhole	644923.974	739093.629	102.830	1.589	101.241	Circular	1.200
MH 4.4	Manhole	644875.184	739112.854	102.960	1.981	100.979	Circular	1.200
MH 4.2	Manhole	644942.490	739099.217	102.785	1.447	101.338	Circular	1.200
MH 4.14	Manhole	644855.761	739079.424	102.500	1.787	100.713	Circular	1.800
MH 4.15	Manhole	644841.184	739017.400	101.940	1.315	100.625	Circular	1.200

Name	Lock	Access Required	Intersection Easting (m)	Intersection Northing (m)
MH 4.11	All	<input checked="" type="checkbox"/>	644728.482	739059.204
MH 4.13	All	<input checked="" type="checkbox"/>	644814.343	739016.663
MH 4.6	All	<input checked="" type="checkbox"/>	644849.012	739083.224
MH 4.8	All	<input checked="" type="checkbox"/>	644798.119	739108.568
MH 4.7	All	<input checked="" type="checkbox"/>	644749.259	739131.927
MH 4.10	All	<input checked="" type="checkbox"/>	644732.424	739099.262
MH 4.9	All	<input checked="" type="checkbox"/>	644832.746	739050.130
MH 4.12	All	<input checked="" type="checkbox"/>	644764.870	739040.730
MH 4.5	All	<input checked="" type="checkbox"/>	644861.393	739112.167
MH 4.1	All	<input checked="" type="checkbox"/>	644954.469	739102.699
MH 4.3	All	<input checked="" type="checkbox"/>	644923.974	739093.629
MH 4.4	All	<input checked="" type="checkbox"/>	644875.184	739112.854
MH 4.2	All	<input checked="" type="checkbox"/>	644942.490	739099.217
MH 4.14	All	<input checked="" type="checkbox"/>	644855.761	739079.424
MH 4.15	All	<input checked="" type="checkbox"/>	644841.184	739017.400

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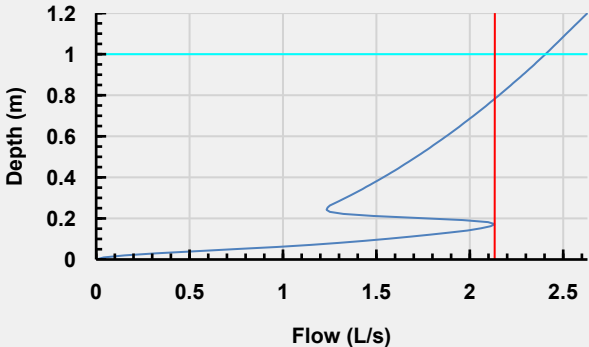
Inlets


Junction	Inlet Name	Incoming Item(s)	Bypass Destination	Capacity Type
MH 4.11	Inlet	CA157	(None)	No Restriction
MH 4.13	Inlet	CA167 4.3.002 CA186	(None)	No Restriction
	Inlet (4)	CA168	(None)	No Restriction
MH 4.6	Inlet	4.1.004 CA164 CA165 4.3.004	(None)	No Restriction
	Inlet (1)	4.2.002	(None)	No Restriction
	Inlet (4)	CA162	(None)	No Restriction
MH 4.8	Inlet	4.2.001 CA188	(None)	No Restriction
MH 4.7	Inlet	CA160 4.2.000	(None)	No Restriction
	Inlet (3)	CA161	(None)	No Restriction
MH 4.10	Inlet	CA159	(None)	No Restriction
MH 4.9	Inlet	4.3.003 CA189 CA166	(None)	No Restriction
MH 4.12	Inlet	CA158 CA187 4.3.001	(None)	No Restriction
MH 4.5	Inlet	CA163 4.1.003	(None)	No Restriction
MH 4.1	Inlet	CA194 CA192 CA191	(None)	No Restriction
MH 4.3	Inlet	CA190 4.1.001	(None)	No Restriction
MH 4.4	Inlet	4.1.002	(None)	No Restriction
MH 4.2	Inlet	4.1.000 CA193	(None)	No Restriction
MH 4.14	Inlet	4.1.005	(None)	No Restriction
MH 4.15	Inlet	4.1.007	(None)	No Restriction

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Outlets

Junction	Outlet Name	Outgoing Connection	Outlet Type
MH 4.11	Outlet	4.3.001	Free Discharge
MH 4.13	Outlet	4.3.003	Free Discharge
MH 4.6	Outlet	4.1.005	Free Discharge
MH 4.8	Outlet	4.2.002	Free Discharge
MH 4.7	Outlet	4.2.001	Free Discharge
MH 4.10	Outlet	4.2.000	Free Discharge
MH 4.9	Outlet	4.3.004	Free Discharge
MH 4.12	Outlet	4.3.002	Free Discharge
MH 4.5	Outlet	4.1.004	Free Discharge
MH 4.1	Outlet	4.1.000	Free Discharge
MH 4.3	Outlet	4.1.002	Free Discharge
MH 4.4	Outlet	4.1.003	Free Discharge
MH 4.2	Outlet	4.1.001	Free Discharge
MH 4.14	Outlet	4.1.006	Free Discharge

MH 4.15	Outlet	(None)	Hydro-Brake®	
	Invert Level (m)		100.625	
	Design Depth (m)		1.000	
	Design Flow (L/s)		2.4	
	Objective	Minimise Upstream Storage Requirements		
	Application	Surface Water Only		
	Sump Available	<input type="checkbox"/>		
	Unit Reference	CHE-0071-2400-1000-2400		
				

Project: ADMIRAL	Date: 09/03/2026			
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Report Details: Type: Stormwater Controls Storm Phase: D4 Design	Company: Lally Chartered Engineers			



Pond

Type : Pond

Dimensions

Exceedance Level (m)	102.140
Depth (m)	1.800
Base Level (m)	100.340
Freeboard (mm)	300
Initial Depth (m)	0.300
Porosity (%)	100
Average Slope (1:X)	4.00
Total Volume (m³)	1000.061

Depth (m)	Area (m²)	Volume (m³)
0.000	412.91	0.000
1.800	1094.41	1307.727

Inlets

Inlet

Inlet Type	Point Inflow
Incoming Item(s)	4.1.006
Bypass Destination	(None)
Capacity Type	No Restriction


Outlets

Outlet


Outgoing Connection	4.1.007
Outlet Type	Orifice
Diameter (m)	0.225
Coefficient of Discharge	0.600
Invert Level (m)	100.640

Advanced


Perimeter	Circular
Length (m)	58.128
Friction Scheme	Manning's n
n	0.03

Project: ADMIRAL	Date: 09/03/2026			
	Designed by: TG & JH	Checked by: DML	Approved By: DML	
Report Details: Type: Manhole Schedule Storm Phase: D4 Design	Company: Lally Chartered Engineers			


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		
MH 4.11	103.000 101.606	Diameter / Length: 1.500					Manhole - Access Required	
E:644728.482 N:739059.204	1.394		{a} 4.3.001	Pipe	101.606	Diam/Width:225		Not Applicable
MH 4.13	102.900 101.127	Diameter / Length: 1.500	{1} 4.3.002	Pipe	101.127	Diam/Width:300	Manhole - Access Required	
E:644814.343 N:739016.663	1.773		{a} 4.3.003	Pipe	101.127	Diam/Width:375		Not Applicable
MH 4.6	103.080 100.752	Diameter / Length: 1.800	{1} 4.1.004	Pipe	100.752	Diam/Width:225	Manhole - Access Required	
E:644849.012 N:739083.224	2.328		{2} 4.3.004	Pipe	100.752	Diam/Width:375		
			{3} 4.2.002	Pipe	100.752	Diam/Width:225		
			{a} 4.1.005	Pipe	100.752	Diam/Width:375		Not Applicable
MH 4.8	103.180 101.036	Diameter / Length: 1.500	{1} 4.2.001	Pipe	101.036	Diam/Width:225	Manhole - Access Required	
E:644798.119 N:739108.568	2.144							
			{a} 4.2.002	Pipe	101.036	Diam/Width:225		Not Applicable

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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	
MH 4.7	102.900 101.397	Diameter / Length: 1.500	{1} 4.2.000	Pipe	101.397	Diam/Width:150	Manhole - Access Required
E:644749.259 N:739131.927	1.503		{a} 4.2.001	Pipe	101.397	Diam/Width:225	
MH 4.10	103.080 101.642	Diameter / Length: 1.200					Manhole - Access Required
E:644732.424 N:739099.262	1.438		{a} 4.2.000	Pipe	101.642	Diam/Width:150	
MH 4.9	103.080 100.936	Diameter / Length: 1.500	{1} 4.3.003	Pipe	100.936	Diam/Width:375	Manhole - Access Required
E:644832.746 N:739050.130	2.144		{a} 4.3.004	Pipe	100.936	Diam/Width:375	
MH 4.12	103.180 101.402	Diameter / Length: 1.500	{1} 4.3.001	Pipe	101.402	Diam/Width:225	Manhole - Access Required
E:644764.870 N:739040.730	1.778		{a} 4.3.002	Pipe	101.402	Diam/Width:300	
MH 4.5	103.000 100.910	Diameter / Length: 1.200	{1} 4.1.003	Pipe	100.910	Diam/Width:225	Manhole - Access Required
E:644861.393 N:739112.167	2.090		{a} 4.1.004	Pipe	100.910	Diam/Width:225	

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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
MH 4.1	102.750 101.400	Diameter / Length: 1.200					Manhole - Access Required
E:644954.469 N:739102.699	1.350		{a} 4.1.000	Pipe	101.400	Diam/Width:225	
MH 4.3	102.830 101.241		Diameter / Length: 1.200	{1} 4.1.001	Pipe	101.241	Diam/Width:225
E:644923.974 N:739093.629	1.589	{a} 4.1.002		Pipe	101.241	Diam/Width:225	Not Applicable
MH 4.4	102.960 100.979	Diameter / Length: 1.200		{1} 4.1.002	Pipe	100.979	Diam/Width:225
E:644875.184 N:739112.854	1.981		{a} 4.1.003	Pipe	100.979	Diam/Width:225	Not Applicable
MH 4.2	102.785 101.338		Diameter / Length: 1.200	{1} 4.1.000	Pipe	101.338	Diam/Width:225
E:644942.490 N:739099.217	1.447	{a} 4.1.001		Pipe	101.338	Diam/Width:225	Not Applicable
MH 4.14	102.500 100.713	Diameter / Length: 1.800		{1} 4.1.005	Pipe	100.713	Diam/Width:375
E:644855.761 N:739079.424	1.787		{a} 4.1.006	Pipe	100.713	Diam/Width:375	Not Applicable

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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
MH 4.15	101.940 100.625	Diameter / Length: 1.200	{1} 4.1.007	No Delay	Not Applicable	Not Applicable	Manhole - Access Required
E:644841.184	1.315						
N:739017.400							Not Applicable


Project: ADMIRAL	Date: 09/03/2026			
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Report Details: Type: Inflow Summary Storm Phase: D4 Design	Company: Lally Chartered Engineers			

Inflow Label	Connected To	Flow (L/s)	Runoff Method	Area (ha)	Percentage Impervious (%)	Urban Creep (%)	Adjusted Percentage Impervious (%)	Area Analysed (ha)
CA157	MH 4.11		Time of Concentration	0.042	100	0	100	0.042
CA158	MH 4.12		Time of Concentration	0.027	100	0	100	0.027
CA159	MH 4.10		Time of Concentration	0.030	100	0	100	0.030
CA160	MH 4.7		Time of Concentration	0.026	100	0	100	0.026
CA161	MH 4.7		Time of Concentration	0.028	100	0	100	0.028
CA162	MH 4.6		Time of Concentration	0.029	100	0	100	0.029
CA163	MH 4.5		Time of Concentration	0.011	100	0	100	0.011
CA164	MH 4.6		Time of Concentration	0.008	100	0	100	0.008
CA165	MH 4.6		Time of Concentration	0.044	100	0	100	0.044
CA166	MH 4.9		Time of Concentration	0.026	100	0	100	0.026
CA167	MH 4.13		Time of Concentration	0.039	100	0	100	0.039
CA168	MH 4.13		Time of Concentration	0.028	100	0	100	0.028
CA186	MH 4.13		Time of Concentration	0.116	100	0	100	0.116
CA187	MH 4.12		Time of Concentration	0.120	100	0	100	0.120
CA188	MH 4.8		Time of Concentration	0.120	100	0	100	0.120
CA189	MH 4.9		Time of Concentration	0.117	100	0	100	0.117
CA190	MH 4.3		Time of Concentration	0.013	100	0	100	0.013
CA191	MH 4.1		Time of Concentration	0.012	100	0	100	0.012
CA192	MH 4.1		Time of Concentration	0.005	100	0	100	0.005
CA193	MH 4.2		Time of Concentration	0.017	100	0	100	0.017
CA194	MH 4.1		Time of Concentration	0.018	100	0	100	0.018
TOTAL		0.0		0.876				0.876

Project: ADMIRAL	Date: 09/03/2026			
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Report Details: Type: Outfall Details Storm Phase: D4 Design	Company: Lally Chartered Engineers			

Outfalls

Outfall	Outfall Type	Gated	Fixed Surcharged Level (m)	Level Curve
MH 4.15	Free Discharge			

Project: ADMIRAL	Date: 09/03/2026			
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Report Title: Rainfall Analysis Criteria	Company: Lally Chartered Engineers			

Runoff Type	Dynamic
Output Interval (mins)	1
Time Step	Default
Urban Creep	Apply Global Value
Urban Creep Global Value (%)	0
Junction Flood Risk Margin (mm)	300
Perform No Discharge Analysis	<input type="checkbox"/>

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Report Details: Type: Junctions Summary Storm Phase: D4 Design	Company: Lally Chartered Engineers		



Rainfall TG: 1 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
MH 4.11	Rainfall TG: 1 years: +0 %: 15 mins: Summer	103.000	101.606	101.658	0.052	4.4	0.091	0.000	4.3	1.915	OK
MH 4.13	Rainfall TG: 1 years: +0 %: 15 mins: Summer	102.900	101.127	101.263	0.136	38.3	0.241	0.000	38.3	17.119	OK
MH 4.6	Rainfall TG: 1 years: +0 %: 15 mins: Summer	103.080	100.752	101.003	0.251	85.5	0.640	0.000	85.3	39.952	OK
MH 4.8	Rainfall TG: 1 years: +0 %: 15 mins: Summer	103.180	101.036	101.154	0.118	21.0	0.208	0.000	20.3	9.358	OK
MH 4.7	Rainfall TG: 1 years: +0 %: 15 mins: Summer	102.900	101.397	101.465	0.068	8.9	0.120	0.000	8.6	3.855	OK
MH 4.10	Rainfall TG: 1 years: +0 %: 15 mins: Summer	103.080	101.642	101.689	0.047	3.2	0.053	0.000	3.1	1.390	OK
MH 4.9	Rainfall TG: 1 years: +0 %: 15 mins: Summer	103.080	100.936	101.092	0.156	52.9	0.276	0.000	52.9	23.676	OK
MH 4.12	Rainfall TG: 1 years: +0 %: 15 mins: Summer	103.180	101.402	101.502	0.100	20.0	0.177	0.000	19.5	8.688	OK
MH 4.5	Rainfall TG: 1 years: +0 %: 15 mins: Summer	103.000	100.910	101.015	0.106	7.6	0.119	0.000	8.5	3.405	OK
MH 4.1	Rainfall TG: 1 years: +0 %: 15 mins: Summer	102.750	101.400	101.448	0.048	3.6	0.054	0.000	3.6	1.580	OK
MH 4.3	Rainfall TG: 1 years: +0 %: 15 mins: Summer	102.830	101.241	101.306	0.065	6.7	0.074	0.000	6.7	2.959	OK
MH 4.4	Rainfall TG: 1 years: +0 %: 15 mins: Summer	102.960	100.979	101.043	0.064	6.7	0.072	0.000	6.6	2.920	OK
MH 4.2	Rainfall TG: 1 years: +0 %: 15 mins: Summer	102.785	101.338	101.396	0.059	5.4	0.066	0.000	5.4	2.362	OK
MH 4.14	Rainfall TG: 1 years: +0 %: 15 mins: Summer	102.500	100.713	100.946	0.233	85.3	0.592	0.000	85.1	39.833	OK
MH 4.15	Rainfall TG: 1 years: +0 %: 960 mins: Summer	101.940	100.625	100.855	0.230	9.0	0.260	0.000	2.1	137.896	OK

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Rainfall TG: 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
MH 4.11	Rainfall TG: 30 years: +0 %: 15 mins: Summer	103.000	101.606	101.684	0.078	9.9	0.137	0.000	9.6	4.262	OK
MH 4.13	Rainfall TG: 30 years: +0 %: 15 mins: Summer	102.900	101.127	101.379	0.252	86.2	0.445	0.000	83.3	38.118	OK
MH 4.6	Rainfall TG: 30 years: +0 %: 15 mins: Summer	103.080	100.752	101.229	0.478	173.5	1.216	0.000	173.3	89.156	Surcharged
MH 4.8	Rainfall TG: 30 years: +0 %: 15 mins: Summer	103.180	101.036	101.538	0.502	47.4	0.886	0.000	38.3	20.846	Surcharged
MH 4.7	Rainfall TG: 30 years: +0 %: 15 mins: Summer	102.900	101.397	101.592	0.195	19.7	0.344	0.000	19.3	8.552	OK
MH 4.10	Rainfall TG: 30 years: +0 %: 15 mins: Summer	103.080	101.642	101.715	0.073	7.1	0.082	0.000	7.0	3.086	OK
MH 4.9	Rainfall TG: 30 years: +0 %: 15 mins: Summer	103.080	100.936	101.338	0.402	117.2	0.711	0.000	103.5	52.732	Surcharged
MH 4.12	Rainfall TG: 30 years: +0 %: 15 mins: Summer	103.180	101.402	101.559	0.157	44.5	0.277	0.000	43.5	19.337	OK
MH 4.5	Rainfall TG: 30 years: +0 %: 15 mins: Summer	103.000	100.910	101.260	0.350	16.6	0.396	0.000	18.0	7.957	Surcharged
MH 4.1	Rainfall TG: 30 years: +0 %: 15 mins: Summer	102.750	101.400	101.475	0.075	8.1	0.085	0.000	8.0	3.502	OK
MH 4.3	Rainfall TG: 30 years: +0 %: 15 mins: Summer	102.830	101.241	101.339	0.098	15.0	0.111	0.000	14.9	6.572	OK
MH 4.4	Rainfall TG: 30 years: +0 %: 15 mins: Summer	102.960	100.979	101.273	0.294	14.9	0.332	0.000	14.8	6.616	Surcharged
MH 4.2	Rainfall TG: 30 years: +0 %: 15 mins: Summer	102.785	101.338	101.429	0.091	12.1	0.103	0.000	11.9	5.244	OK
MH 4.14	Rainfall TG: 30 years: +0 %: 15 mins: Summer	102.500	100.713	101.119	0.406	173.3	1.034	0.000	172.6	88.400	Surcharged
MH 4.15	Rainfall TG: 30 years: +0 %: 1440 mins: Winter	101.940	100.625	101.079	0.454	11.8	0.513	0.000	2.1	233.861	OK

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Rainfall TG: 100 years: Increase Rainfall (%): +20: 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
MH 4.11	Rainfall TG: 100 years: +20 %: 15 mins: Summer	103.000	101.606	102.190	0.584	15.9	1.031	0.000	18.7	7.138	Surcharged
MH 4.13	Rainfall TG: 100 years: +20 %: 15 mins: Summer	102.900	101.127	101.977	0.850	122.7	1.502	0.000	117.8	60.040	Surcharged
MH 4.6	Rainfall TG: 100 years: +20 %: 15 mins: Summer	103.080	100.752	101.571	0.819	260.8	2.085	0.000	261.2	139.207	Surcharged
MH 4.8	Rainfall TG: 100 years: +20 %: 15 mins: Summer	103.180	101.036	102.250	1.214	61.7	2.144	0.000	58.2	32.750	Surcharged
MH 4.7	Rainfall TG: 100 years: +20 %: 15 mins: Summer	102.900	101.397	102.356	0.959	28.7	1.695	0.000	26.5	13.497	Surcharged
MH 4.10	Rainfall TG: 100 years: +20 %: 15 mins: Summer	103.080	101.642	102.428	0.786	11.1	0.889	0.000	10.0	4.858	Surcharged
MH 4.9	Rainfall TG: 100 years: +20 %: 15 mins: Summer	103.080	100.936	101.833	0.897	163.3	1.586	0.000	161.9	82.935	Surcharged
MH 4.12	Rainfall TG: 100 years: +20 %: 15 mins: Summer	103.180	101.402	102.149	0.747	65.0	1.320	0.000	61.0	30.825	Surcharged
MH 4.5	Rainfall TG: 100 years: +20 %: 15 mins: Summer	103.000	100.910	101.622	0.712	23.9	0.806	0.000	26.6	13.020	Surcharged
MH 4.1	Rainfall TG: 100 years: +20 %: 15 mins: Summer	102.750	101.400	101.708	0.308	12.5	0.348	0.000	12.6	5.486	Surcharged
MH 4.3	Rainfall TG: 100 years: +20 %: 15 mins: Summer	102.830	101.241	101.689	0.448	21.0	0.507	0.000	21.0	10.386	Surcharged
MH 4.4	Rainfall TG: 100 years: +20 %: 15 mins: Summer	102.960	100.979	101.639	0.661	26.8	0.747	0.000	23.2	10.662	Surcharged
MH 4.2	Rainfall TG: 100 years: +20 %: 15 mins: Summer	102.785	101.338	101.703	0.365	18.9	0.413	0.000	16.4	8.244	Surcharged
MH 4.14	Rainfall TG: 100 years: +20 %: 15 mins: Summer	102.500	100.713	101.312	0.599	261.2	1.525	0.000	261.4	137.490	Surcharged
MH 4.15	Rainfall TG: 100 years: +20 %: 1440 mins: Winter	101.940	100.625	101.288	0.663	11.9	0.750	0.000	2.1	276.099	OK

Project: ADMIRAL	Date: 09/03/2026			
	Designed by: TG & JH	Checked by: DML	Approved By: DML	
Report Details: Type: Stormwater Controls Summary Storm Phase: D4 Design	Company: Lally Chartered Engineers			



Rainfall TG: 1 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. Residant Volume (m³)	Max. Flooded Volume (m³)	Total Lost Volume (m³)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Percentage Available (%)	Status
Pond	Rainfall TG: 1 years: +0 %: 960 mins: Summer	100.822	100.822	0.482	0.482	11.0	234.206	0.000	0.000	9.2	165.706	76.581	OK

Project: ADMIRAL	Date: 09/03/2026			
	Designed by: TG & JH	Checked by: DML	Approved By: DML	
Report Details: Type: Stormwater Controls Summary Storm Phase: D4 Design	Company: Lally Chartered Engineers			



Rainfall TG: 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. Residant Volume (m³)	Max. Flooded Volume (m³)	Total Lost Volume (m³)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Percentage Available (%)	Status
Pond	Rainfall TG: 30 years: +0 %: 960 mins: Winter	101.054	101.054	0.714	0.714	13.6	374.050	0.000	0.000	9.5	192.623	62.597	OK

Project: ADMIRAL	Date: 09/03/2026		
	Designed by: TG & JH	Checked by: DML	Approved By: DML
Report Details: Type: Stormwater Controls Summary Storm Phase: D4 Design	Company: Lally Chartered Engineers		



Rainfall TG: 100 years: Increase Rainfall (%): +20: 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. Residant Volume (m³)	Max. Flooded Volume (m³)	Total Lost Volume (m³)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Percentage Available (%)	Status
Pond	Rainfall TG: 100 years: +20 %: 1440 mins: Winter	101.257	101.257	0.917	0.917	15.8	512.202	0.000	0.000	9.8	357.929	48.783	OK

Project: ADMIRAL	Date: 09/03/2026			
	Designed by: TG & JH	Checked by: DML	Approved By: DML	
Report Details: Type: Connections Summary Storm Phase: D4 Design	Company: Lally Chartered Engineers			




Rainfall TG: 1 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max. Flow

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
4.2.002	Rainfall TG: 1 years: +0 %: 15 mins: Summer	Pipe	MH 4.8	MH 4.6	103.180	101.154	0.184	9.358	0.6	0.54	20.3	OK
4.3.003	Rainfall TG: 1 years: +0 %: 15 mins: Summer	Pipe	MH 4.13	MH 4.9	102.900	101.263	0.146	17.119	1.0	0.26	38.3	OK
4.3.002	Rainfall TG: 1 years: +0 %: 15 mins: Summer	Pipe	MH 4.12	MH 4.13	103.180	101.502	0.118	8.688	0.8	0.24	19.5	OK
4.2.001	Rainfall TG: 1 years: +0 %: 15 mins: Summer	Pipe	MH 4.7	MH 4.8	102.900	101.465	0.093	3.855	0.6	0.2	8.6	OK
4.1.004	Rainfall TG: 1 years: +0 %: 15 mins: Summer	Pipe	MH 4.5	MH 4.6	103.000	101.015	0.178	3.405	0.3	0.23	8.5	OK
4.1.002	Rainfall TG: 1 years: +0 %: 15 mins: Summer	Pipe	MH 4.3	MH 4.4	102.830	101.306	0.064	2.959	0.7	0.18	6.7	OK
4.1.003	Rainfall TG: 1 years: +0 %: 15 mins: Summer	Pipe	MH 4.4	MH 4.5	102.960	101.043	0.085	2.920	0.6	0.18	6.6	OK
4.1.000	Rainfall TG: 1 years: +0 %: 15 mins: Summer	Pipe	MH 4.1	MH 4.2	102.750	101.448	0.053	1.580	0.5	0.1	3.6	OK
4.1.001	Rainfall TG: 1 years: +0 %: 15 mins: Summer	Pipe	MH 4.2	MH 4.3	102.785	101.396	0.062	2.362	0.6	0.14	5.4	OK
4.3.001	Rainfall TG: 1 years: +0 %: 15 mins: Summer	Pipe	MH 4.11	MH 4.12	103.000	101.658	0.076	1.915	0.4	0.12	4.3	OK
4.1.006	Rainfall TG: 1 years: +0 %: 15 mins: Summer	Pipe	MH 4.14	Pond	102.500	100.946	0.219	39.833	1.3	0.58	85.1	OK
4.1.005	Rainfall TG: 1 years: +0 %: 15 mins: Summer	Pipe	MH 4.6	MH 4.14	103.080	101.003	0.242	39.952	1.1	0.58	85.3	OK
4.3.004	Rainfall TG: 1 years: +0 %: 15 mins: Summer	Pipe	MH 4.9	MH 4.6	103.080	101.092	0.202	23.676	0.9	0.36	52.9	OK
4.1.007	Rainfall TG: 1 years: +0 %: 1440 mins: Summer	No Delay	Pond	MH 4.15		100.819	1.057	170.365	0.0		9.5	

Project: ADMIRAL		Date: 09/03/2026										
Report Details: Type: Connections Summary Storm Phase: D4 Design		Designed by: TG & JH	Checked by: DML	Approved By: DML								
		Company: Lally Chartered Engineers										


4.2.000	Rainfall TG: 1 years: +0 %: 15 mins: Summer	Pipe	MH 4.10	MH 4.7	103.080	101.689	0.057	1.390	0.5	0.21	3.1	OK
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Project: ADMIRAL	Date: 09/03/2026			
	Designed by: TG & JH	Checked by: DML	Approved By: DML	
Report Details: Type: Connections Summary Storm Phase: D4 Design	Company: Lally Chartered Engineers			




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

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
4.2.002	Rainfall TG: 30 years: +0 %: 15 mins: Summer	Pipe	MH 4.8	MH 4.6	103.180	101.538	0.225	20.846	1.0	1.02	38.3	Surcharged
4.3.003	Rainfall TG: 30 years: +0 %: 15 mins: Summer	Pipe	MH 4.13	MH 4.9	102.900	101.379	0.327	38.118	1.1	0.57	83.3	OK
4.3.002	Rainfall TG: 30 years: +0 %: 15 mins: Summer	Pipe	MH 4.12	MH 4.13	103.180	101.559	0.200	19.337	0.9	0.54	43.5	OK
4.2.001	Rainfall TG: 30 years: +0 %: 15 mins: Summer	Pipe	MH 4.7	MH 4.8	102.900	101.592	0.225	8.552	0.6	0.44	19.3	OK
4.1.004	Rainfall TG: 30 years: +0 %: 15 mins: Summer	Pipe	MH 4.5	MH 4.6	103.000	101.260	0.225	7.678	0.5	0.48	18.0	Surcharged
4.1.002	Rainfall TG: 30 years: +0 %: 15 mins: Summer	Pipe	MH 4.3	MH 4.4	102.830	101.339	0.194	6.572	0.8	0.4	14.9	OK
4.1.003	Rainfall TG: 30 years: +0 %: 15 mins: Summer	Pipe	MH 4.4	MH 4.5	102.960	101.273	0.225	6.537	0.6	0.4	14.8	Surcharged
4.1.000	Rainfall TG: 30 years: +0 %: 15 mins: Summer	Pipe	MH 4.1	MH 4.2	102.750	101.475	0.083	3.502	0.6	0.21	8.0	OK
4.1.001	Rainfall TG: 30 years: +0 %: 15 mins: Summer	Pipe	MH 4.2	MH 4.3	102.785	101.429	0.095	5.244	0.8	0.32	11.9	OK
4.3.001	Rainfall TG: 30 years: +0 %: 15 mins: Summer	Pipe	MH 4.11	MH 4.12	103.000	101.684	0.117	4.262	0.5	0.26	9.6	OK
4.1.006	Rainfall TG: 30 years: +0 %: 15 mins: Summer	Pipe	MH 4.14	Pond	102.500	101.119	0.355	88.400	1.6	1.18	172.6	Surcharged
4.1.005	Rainfall TG: 30 years: +0 %: 15 mins: Summer	Pipe	MH 4.6	MH 4.14	103.080	101.229	0.375	88.955	1.6	1.18	173.3	Surcharged
4.3.004	Rainfall TG: 30 years: +0 %: 15 mins: Summer	Pipe	MH 4.9	MH 4.6	103.080	101.338	0.375	52.732	1.0	0.71	103.5	Surcharged
4.1.007	Rainfall TG: 30 years: +0 %: 1440 mins: Summer	No Delay	Pond	MH 4.15		101.051	1.326	257.058	0.0		12.2	

Project: ADMIRAL		Date: 09/03/2026										
		Designed by: TG & JH	Checked by: DML	Approved By: DML								
Report Details: Type: Connections Summary Storm Phase: D4 Design		Company: Lally Chartered Engineers										


4.2.000	Rainfall TG: 30 years: +0 %: 15 mins: Summer	Pipe	MH 4.10	MH 4.7	103.080	101.715	0.131	3.086	0.6	0.48	7.0	OK
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Project: ADMIRAL	Date: 09/03/2026			
	Designed by: TG & JH	Checked by: DML	Approved By: DML	
Report Details: Type: Connections Summary Storm Phase: D4 Design	Company: Lally Chartered Engineers			



Rainfall TG: 100 years: Increase Rainfall (%): +20: Critical Storm Per Item: Rank By: Max. Flow

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
4.2.002	Rainfall TG: 100 years: +20 %: 15 mins: Summer	Pipe	MH 4.8	MH 4.6	103.180	102.250	0.225	32.750	1.5	1.55	58.2	Surcharged
4.3.003	Rainfall TG: 100 years: +20 %: 15 mins: Summer	Pipe	MH 4.13	MH 4.9	102.900	101.977	0.375	60.040	1.1	0.8	117.8	Surcharged
4.3.002	Rainfall TG: 100 years: +20 %: 15 mins: Summer	Pipe	MH 4.12	MH 4.13	103.180	102.149	0.300	30.540	1.0	0.76	61.0	Surcharged
4.2.001	Rainfall TG: 100 years: +20 %: 15 mins: Summer	Pipe	MH 4.7	MH 4.8	102.900	102.356	0.225	13.496	0.7	0.61	26.5	Surcharged
4.1.004	Rainfall TG: 100 years: +20 %: 15 mins: Summer	Pipe	MH 4.5	MH 4.6	103.000	101.622	0.225	12.173	0.7	0.71	26.6	Surcharged
4.1.002	Rainfall TG: 100 years: +20 %: 15 mins: Summer	Pipe	MH 4.3	MH 4.4	102.830	101.689	0.225	10.386	0.8	0.56	21.0	Surcharged
4.1.003	Rainfall TG: 100 years: +20 %: 15 mins: Summer	Pipe	MH 4.4	MH 4.5	102.960	101.639	0.225	10.358	0.6	0.62	23.2	Surcharged
4.1.000	Rainfall TG: 100 years: +20 %: 15 mins: Summer	Pipe	MH 4.1	MH 4.2	102.750	101.708	0.225	5.486	0.7	0.34	12.6	Surcharged
4.1.001	Rainfall TG: 100 years: +20 %: 15 mins: Winter	Pipe	MH 4.2	MH 4.3	102.785	101.615	0.225	8.226	0.8	0.48	17.8	Surcharged
4.3.001	Rainfall TG: 100 years: +20 %: 15 mins: Summer	Pipe	MH 4.11	MH 4.12	103.000	102.190	0.225	6.853	0.5	0.5	18.7	Surcharged
4.1.006	Rainfall TG: 100 years: +20 %: 15 mins: Summer	Pipe	MH 4.14	Pond	102.500	101.312	0.375	137.490	2.4	1.78	261.4	Surcharged
4.1.005	Rainfall TG: 100 years: +20 %: 15 mins: Summer	Pipe	MH 4.6	MH 4.14	103.080	101.571	0.375	138.664	2.4	1.78	261.2	Surcharged
4.3.004	Rainfall TG: 100 years: +20 %: 15 mins: Summer	Pipe	MH 4.9	MH 4.6	103.080	101.833	0.375	82.935	1.5	1.1	161.9	Surcharged
4.1.007	Rainfall TG: 100 years: +20 %: 1440 mins: Summer	No Delay	Pond	MH 4.15		101.249	1.797	300.677	0.0		13.8	

Project: ADMIRAL		Date: 09/03/2026							
Report Details: Type: Connections Summary Storm Phase: D4 Design		Designed by: TG & JH	Checked by: DML	Approved By: DML					
		Company: Lally Chartered Engineers							

4.2.000	Rainfall TG: 100 years: +20 %: 15 mins: Summer	Pipe	MH 4.10	MH 4.7	103.080	102.428	0.150	4.857	0.7	0.68	10.0	Surcharged
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