

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



Name	Junction Type	Easting (m)	Northing (m)	Cover Level (m)	Depth (m)	Invert Level (m)	Chamber Shape	Diameter (m)
MH 8.1	Manhole	644706.054	739062.156	102.700	1.663	101.037	Circular	1.350
MH 8.2	Manhole	644722.829	739053.906	102.600	1.697	100.903	Circular	1.350
MH 8.3	Manhole	644802.929	739014.448	102.600	2.335	100.265	Circular	1.350
MH 8.4	Manhole	644836.418	739002.622	101.500	1.489	100.011	Circular	1.350
MH 8.7	Manhole	644856.510	739001.665	101.550	1.640	99.910	Circular	1.350
MH 8.8	Manhole	644857.745	739001.107	100.800	0.897	99.903	Circular	0.000
MH 4.15	Manhole	644834.007	739016.933	101.300	1.192	100.108	Circular	1.350
MH 8.5	Manhole	644819.346	738996.831	101.600	1.469	100.131	Circular	1.350


Name	Lock
MH 8.1	None
MH 8.2	None
MH 8.3	None
MH 8.4	None
MH 8.7	None
MH 8.8	None
MH 4.15	None
MH 8.5	None

Inlets


Junction	Inlet Name	Incoming Item(s)	Bypass Destination	Capacity Type
MH 8.1	Inlet	Ponds 1 & 2	(None)	No Restriction
MH 8.2	Inlet	8.1.000	(None)	No Restriction
MH 8.3	Inlet	8.1.001	(None)	No Restriction
MH 8.4	Inlet	8.1.002 8.2.000 8.3.000	(None)	No Restriction
MH 8.7	Inlet	8.1.003	(None)	No Restriction
MH 8.8	Inlet	8.1.004	(None)	No Restriction
MH 4.15	Inlet	Pond 4	(None)	No Restriction
MH 8.5	Inlet	Pond 3	(None)	No Restriction

Outlets


Junction	Outlet Name	Outgoing Connection	Outlet Type
MH 8.1	Outlet	8.1.000	Free Discharge
MH 8.2	Outlet	8.1.001	Free Discharge
MH 8.3	Outlet	8.1.002	Free Discharge
MH 8.4	Outlet	8.1.003	Free Discharge
MH 8.7	Outlet	8.1.004	Free Discharge
MH 4.15	Outlet	8.3.000	Free Discharge
MH 8.5	Outlet	8.2.000	Free Discharge

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Report Details: Type: Manhole Schedule Storm Phase: Culvert Pipe	Company: Lally Chartered Engineers			


Name	Cover Level (m) Invert Level (m)	Manhole Size (m)	Connection Details				Type
			Incoming Connections	Connection Type	Connection Invert (m)	Connection Size (mm)	Junction Type
Coordinates (m)	Depth (m)		Outgoing Connections				Cover
MH 8.1	102.700 101.037	Diameter / Length: 1.350					Manhole
E:644706.054 N:739062.156	1.663		{a} 8.1.000	Pipe	101.037	Diam/Width:450	Not Applicable
MH 8.2	102.600 100.903	Diameter / Length: 1.350	{1} 8.1.000	Pipe	100.903	Diam/Width:450	Manhole
E:644722.829 N:739053.906	1.697		{a} 8.1.001	Pipe	100.903	Diam/Width:450	Not Applicable
MH 8.3	102.600 100.265	Diameter / Length: 1.350	{1} 8.1.001	Pipe	100.265	Diam/Width:450	Manhole
E:644802.929 N:739014.448	2.335		{a} 8.1.002	Pipe	100.265	Diam/Width:450	Not Applicable
MH 8.4	101.500 100.011	Diameter / Length: 1.350	{1} 8.1.002	Pipe	100.011	Diam/Width:450	Manhole
E:644836.418 N:739002.622	1.489		{2} 8.2.000	Pipe	100.011	Diam/Width:225	
			{3} 8.3.000	Pipe	100.011	Diam/Width:225	
			{a} 8.1.003	Pipe	100.011	Diam/Width:450	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 8.7	101.550 99.910	Diameter / Length: 1.350	{1} 8.1.003	Pipe	99.910	Diam/Width:450	Manhole
E:644856.510 N:739001.665	1.640		{a} 8.1.004	Pipe	99.910	Diam/Width:450	Not Applicable
MH 8.8	100.800 99.903	Diameter / Length: 0.000	{1} 8.1.004	Pipe	99.903	Diam/Width:450	Manhole
E:644857.745 N:739001.107	0.897						Not Applicable
MH 4.15	101.300 100.108	Diameter / Length: 1.350					Manhole
E:644834.007 N:739016.933	1.192		{a} 8.3.000	Pipe	100.108	Diam/Width:225	Not Applicable
MH 8.5	101.600 100.131	Diameter / Length: 1.350					Manhole
E:644819.346 N:738996.831	1.469		{a} 8.2.000	Pipe	100.131	Diam/Width:225	Not Applicable


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

Inflow Label	Connected To	Flow (L/s)
Pond 3	MH 8.5	7.0
Pond 4	MH 4.15	2.4
Ponds 1 & 2	MH 8.1	41.6
TOTAL		51.0

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

Outfalls

Outfall	Outfall Type	Gated	Fixed Surcharged Level (m)	Level Curve
MH 8.8	Free Discharge			

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Report Title: Dry Weather Flow Analysis Criteria	Company: Lally Chartered Engineers			

Run Time (mins)	1
Output Interval (mins)	5
Time Step	Default
Junction Flood Risk Margin (mm)	300

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Dry Weather Flows

Junction	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 8.1	102.700	101.037	101.159	0.122	41.6	0.174	0.000	41.3	2.139	OK
MH 8.2	102.600	100.903	101.006	0.103	41.3	0.147	0.000	20.7	0.423	OK
MH 8.3	102.600	100.265	100.292	0.027	20.7	0.038	0.000	1.9	0.020	OK
MH 8.4	101.500	100.011	100.047	0.036	11.3	0.052	0.000	2.1	0.031	OK
MH 8.7	101.550	99.910	99.920	0.010	2.1	0.014	0.000	0.1	0.001	OK
MH 8.8	100.800	99.903	99.912	0.009	0.1	0.000	0.000	0.1	0.001	OK
MH 4.15	101.300	100.108	100.144	0.036	2.4	0.052	0.000	2.2	0.068	OK
MH 8.5	101.600	100.131	100.197	0.066	7.0	0.095	0.000	7.2	0.260	OK

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Dry Weather Flows

Connection	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
8.1.000	Pipe	MH 8.1	MH 8.2	102.700	101.159	0.112	2.139	1.3	0.14	41.3	OK
8.1.001	Pipe	MH 8.2	MH 8.3	102.600	101.006	0.065	0.423	1.5	0.07	20.7	OK
8.1.002	Pipe	MH 8.3	MH 8.4	102.600	100.292	0.032	0.020	0.4	0.01	1.9	OK
8.1.003	Pipe	MH 8.4	MH 8.7	101.500	100.047	0.023	0.031	0.7	0.01	2.1	OK
8.1.004	Pipe	MH 8.7	MH 8.8	101.550	99.920	0.009	0.001	0.2	0	0.1	OK
8.2.000	Pipe	MH 8.5	MH 8.4	101.600	100.197	0.051	0.260	1.0	0.17	7.2	OK
8.3.000	Pipe	MH 4.15	MH 8.4	101.300	100.144	0.036	0.068	0.5	0.05	2.2	OK