



Project: 21185 Carn Thomas Isles of Scilly		Date: 18/03/2024			 MBA CONSULTING consulting structural & civil engineers
Report Details: Type: Junctions Storm Phase: Phase		Designed by: MFS	Checked by:	Approved By:	
		Designer: MBA Consulting			

Name	Junction Type	Easting (m)	Northing (m)	Cover Level (m)	Depth (m)	Invert Level (m)	Chamber Shape	Diameter (m)
S1.003	Manhole	90786.090	10683.816	4.000	1.500	2.500	Circular	1.200
S1.004	Manhole	90748.205	10675.361	6.280	1.350	4.930	Circular	0.450
SWMH 3	Manhole	90703.504	10678.440	10.050	0.690	9.360	Circular	1.200
S1.006	Manhole	90702.518	10674.279	10.237	0.847	9.390	Circular	1.500
S1.008	Manhole	90702.995	10663.918	10.249	0.779	9.470	Circular	1.500
S1.009	Manhole	90700.991	10659.524	10.570	1.030	9.540	Circular	1.200
S2.008	Manhole	90710.403	10642.540	18.166	1.228	16.938	Circular	0.450
S6.001	Manhole	90683.379	10640.119	19.336	0.986	18.350	Circular	0.450
S8.003	Manhole	90710.052	10668.383	9.860	0.990	8.870	Circular	0.450
S8.001	Manhole	90729.648	10672.663	8.387	2.367	6.020	Circular	1.500
S2.002	Manhole	90738.211	10671.161	7.566	1.606	5.960	Circular	1.500
S2.003	Manhole	90737.610	10660.739	8.603	2.573	6.030	Circular	1.500
S3.001	Manhole	90697.273	10675.148	10.507	1.077	9.430	Circular	1.200
S3.002	Manhole	90688.790	10673.645	10.770	1.280	9.490	Circular	0.450
S3.003	Manhole	90675.635	10670.384	10.568	0.988	9.580	Circular	0.450
S3.004	Manhole	90664.761	10667.850	10.359	0.699	9.660	Circular	0.450
S4.001	Manhole	90708.838	10659.394	10.342	0.792	9.550	Circular	1.200
S2.005	Manhole	90723.515	10657.887	11.779	2.779	9.000	Circular	0.450
S2.006	Manhole	90720.771	10647.630	15.443	1.943	13.500	Circular	0.450
S5.001	Manhole	90697.288	10659.036	13.634	3.744	9.890	Circular	0.450
S5.002	Manhole	90687.109	10657.591	13.480	2.560	10.920	Circular	0.450
S5.003	Manhole	90675.450	10655.765	13.134	1.624	11.510	Circular	0.450
S5.004	Manhole	90664.821	10653.241	13.085	1.025	12.060	Circular	0.450
S1.010	Manhole	90694.703	10650.822	16.265	1.545	14.720	Circular	0.450
S1.011	Manhole	90680.918	10648.914	16.820	1.960	14.860	Circular	0.450
S2.009	Manhole	90719.628	10639.124	18.147	1.000	17.147	Circular	0.450
S1.001	Manhole	90782.395	10690.965	3.800	1.800	2.000	Circular	0.450
S1.005	Manhole	90738.799	10675.751	6.920	1.350	5.570	Circular	0.450
S1.007	Manhole	90702.694	10666.385	10.246	0.796	9.450	Circular	1.500
S8.002	Manhole	90710.525	10674.070	9.800	1.400	8.400	Circular	0.450
S2.001	Manhole	90738.377	10672.417	7.344	1.394	5.950	Circular	0.450
S2.004	Manhole	90727.572	10659.907	10.000	3.900	6.100	Circular	1.500
S3.005	Manhole	90652.170	10664.618	10.230	0.480	9.750	Circular	0.450
S1.002	Manhole	90784.727	10688.660	4.000	1.560	2.440	Circular	1.200
G3	Manhole	90782.860	10688.989	4.000	0.675	3.325	Circular	0.450
Outfall	Manhole	90781.244	10695.356	1.000	0.900	0.100	Circular	0.450
G2	Manhole	90743.634	10674.311	6.480	0.675	5.805	Circular	0.450
G1	Manhole	90746.773	10681.021	5.870	0.675	5.195	Circular	0.450
S2.007	Manhole	90712.946	10649.862	15.417	0.987	14.430	Circular	0.450
G4	Manhole	90783.271	10689.181	4.000	0.675	3.325	Circular	0.450

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Report Details: Type: Junctions Storm Phase: Phase	Designer: MBA Consulting				

Name	Lock
S1.003	None
S1.004	None
SWMH 3	None
S1.006	None
S1.008	None
S1.009	None
S2.008	None
S6.001	None
S8.003	None
S8.001	None
S2.002	None
S2.003	None
S3.001	None
S3.002	None
S3.003	None
S3.004	None
S4.001	None
S2.005	None
S2.006	None
S5.001	None
S5.002	None
S5.003	None
S5.004	None
S1.010	None
S1.011	None
S2.009	None
S1.001	None
S1.005	None
S1.007	None
S8.002	None
S2.001	None
S2.004	None
S3.005	None
S1.002	None
G3	None
Outfall	None
G2	None
G1	None
S2.007	None
G4	None


Inlets

Junction	Inlet Name	Incoming Item(s)	Bypass Destination	Capacity Type
S1.003	Inlet	T1.003	(None)	No Restriction
S1.004	Inlet (1)	T1.004	(None)	No Restriction
SWMH 3	Inlet	T1.006	(None)	No Restriction
S1.006	Inlet	T1.007	(None)	No Restriction
	Inlet (2)	T3.001	(None)	No Restriction
S1.008	Inlet	T1.009	(None)	No Restriction
		T4.001		
S1.009	Inlet (1)	T5.001	(None)	No Restriction
		T1.010		
S2.008	Inlet	T2.009	(None)	No Restriction
	Inlet (1)	C23	(None)	No Restriction
	Inlet (2)	T6.001	(None)	No Restriction
S6.001	Inlet (1)	C19	(None)	No Restriction
	Inlet (2)	C21	(None)	No Restriction
S8.003	Inlet	C9	(None)	No Restriction
		C12		

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Junction	Inlet Name	Incoming Item(s)	Bypass Destination	Capacity Type
S8.001	Inlet	C14	(None)	No Restriction
	Inlet (2)	T8.002	(None)	No Restriction
S2.002	Inlet	C15 T2.003	(None)	No Restriction
	Inlet (2)	T8.001	(None)	No Restriction
S2.003	Inlet	C16 T2.004	(None)	No Restriction
S3.001	Inlet	C8 Catchment Area	(None)	No Restriction
	Inlet (1)	T3.002	(None)	No Restriction
S3.002	Inlet	C7	(None)	No Restriction
	Inlet (1)	T3.003	(None)	No Restriction
S3.003	Inlet	C5	(None)	No Restriction
	Inlet (1)	T3.004	(None)	No Restriction
	Inlet (2)	Catchment Area (5)	(None)	No Restriction
S3.004	Inlet	C4	(None)	No Restriction
	Inlet (1)	T3.005	(None)	No Restriction
S4.001	Inlet	C17 Catchment Area (1)	(None)	No Restriction
S2.005	Inlet (1)	T2.006 Catchment Area (4)	(None)	No Restriction
	Inlet (2)	C10	(None)	No Restriction
S2.006	Inlet	C24 C27 Catchment Area (3) T2.007	(None)	No Restriction
S5.001	Inlet (1)	C3 T5.002	(None)	No Restriction
S5.002	Inlet (1)	C2 T5.003	(None)	No Restriction
S5.003	Inlet (1)	C1 T5.004	(None)	No Restriction
S5.004	Inlet	C0	(None)	No Restriction
S1.010	Inlet	Catchment Area (2)	(None)	No Restriction
	Inlet (1)	C22 T1.011	(None)	No Restriction
S1.011	Inlet	C18	(None)	No Restriction
	Inlet (1)	C20	(None)	No Restriction
S2.009	Inlet	C25 C26	(None)	No Restriction
S1.001	Inlet	T1.001 Pipe	(None)	No Restriction
	Inlet (1)	Pipe (1)	(None)	No Restriction
S1.005	Inlet (2)	T1.005 T2.001	(None)	No Restriction
S1.007	Inlet	T1.008	(None)	No Restriction
S8.002	Inlet	T8.003	(None)	No Restriction
	Inlet (1)	C11 C28	(None)	No Restriction
S2.001	Inlet	T2.002	(None)	No Restriction
S2.004	Inlet	C13 T2.005	(None)	No Restriction
S3.005	Inlet	C6	(None)	No Restriction
S1.002	Inlet	T1.002	(None)	No Restriction
G3	Inlet	Road to G3	(None)	No Restriction
	Inlet (1)	Pipe (3)	(None)	No Restriction
Outfall	Inlet	EXG OUTFALL	(None)	No Restriction
G2	Inlet	Road to G2	(None)	No Restriction

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Junction	Inlet Name	Incoming Item(s)	Bypass Destination	Capacity Type
G1	Inlet	Pipe (2)	(None)	No Restriction
	Inlet (1)	Road to G1	(None)	No Restriction
S2.007	Inlet	T2.008	(None)	No Restriction
G4	Inlet	Road to G4	(None)	No Restriction

Outlets

Junction	Outlet Name	Outgoing Connection	Outlet Type
S1.003	Outlet	T1.002	Free Discharge
S1.004	Outlet	T1.003	Free Discharge
SWMH 3	Outlet	T1.005	Free Discharge
S1.006	Outlet	T1.006	Free Discharge
S1.008	Outlet (1)	T1.008	Free Discharge
S1.009	Outlet	T1.009	Free Discharge
S2.008	Outlet	T2.008	Free Discharge
S6.001	Outlet	T6.001	Free Discharge
S8.003	Outlet	T8.003	Free Discharge
S8.001	Outlet	T8.001	Free Discharge
S2.002	Outlet	T2.002	Free Discharge
S2.003	Outlet	T2.003	Free Discharge
S3.001	Outlet	T3.001	Free Discharge
S3.002	Outlet	T3.002	Free Discharge
S3.003	Outlet	T3.003	Free Discharge
S3.004	Outlet	T3.004	Free Discharge
S4.001	Outlet	T4.001	Free Discharge
S2.005	Outlet	T2.005	Free Discharge
S2.006	Outlet	T2.006	Free Discharge
S5.001	Outlet	T5.001	Free Discharge
S5.002	Outlet	T5.002	Free Discharge
S5.003	Outlet	T5.003	Free Discharge
S5.004	Outlet	T5.004	Free Discharge
S1.010	Outlet	T1.010	Free Discharge
S1.011	Outlet	T1.011	Free Discharge
S2.009	Outlet	T2.009	Free Discharge
S1.001	Outlet	EXG OUTFALL	Free Discharge
S1.005	Outlet	T1.004	Free Discharge
S1.007	Outlet	T1.007	Free Discharge
S8.002	Outlet	T8.002	Free Discharge
S2.001	Outlet	T2.001	Free Discharge
S2.004	Outlet	T2.004	Free Discharge
S3.005	Outlet	T3.005	Free Discharge
S1.002	Outlet	T1.001	Free Discharge
G3	Outlet	Pipe	Free Discharge
G2	Outlet	Pipe (2)	Free Discharge
G1	Outlet	Pipe (3)	Free Discharge
S2.007	Outlet	T2.007	Free Discharge
G4	Outlet	Pipe (1)	Free Discharge

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Report Details: Type: Connections Storm Phase: Phase		Designed by: MFS	Checked by:	Approved By:	
		Designer: MBA Consulting			

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)
T1.003	38.818	Pipe	15.974		0.6	150	6.280	4.930
T1.004	9.414	Pipe	14.710		0.6	150	6.920	5.570
T1.005	35.397	Pipe	9.339		0.6	150	10.050	9.360
T1.006	4.276	Pipe	142.530		0.6	150	10.237	9.390
T1.009	4.829	Pipe	68.985		0.6	300	10.570	9.540
T6.001	27.132	Pipe	19.215		0.6	100	19.336	18.350
T3.004	11.165	Pipe	139.568		0.6	150	10.359	9.660
T3.003	13.553	Pipe	150.589		0.6	150	10.568	9.580
T3.002	8.615	Pipe	143.587		0.6	150	10.770	9.490
T3.001	5.317	Pipe	132.927		0.6	300	10.507	9.430
T2.006	10.618	Pipe	2.359		0.6	100	15.443	13.500
T5.004	10.924	Pipe	19.862		0.6	100	13.085	12.060
T5.003	11.801	Pipe	20.002		0.6	100	13.134	11.510
T5.002	10.281	Pipe	9.981		0.6	100	13.480	10.920
T5.001	3.735	Pipe	10.672		0.6	150	13.634	9.890
T1.011	13.917	Pipe	99.404		0.6	100	16.820	14.860
T2.009	9.838	Pipe	47.070		0.6	100	18.147	17.147
T2.003	10.439	Pipe	149.134		0.6	600	8.603	6.030
T8.001	8.694	Pipe	144.892		0.6	600	8.387	6.020
T1.010	10.737	Pipe	2.073		0.6	150	16.265	14.720
T4.001	7.389	Pipe	92.360		0.6	300	10.342	9.550
T1.008	2.485	Pipe	124.274		0.6	300	10.249	9.470
T8.003	5.707	Pipe	12.142		0.6	100	9.860	8.870
T1.007	7.896	Pipe	131.605		0.6	225	10.246	9.450
T2.002	1.266	Pipe	126.650		0.6	150	7.566	5.960
T2.001	3.361	Pipe	8.845		0.6	100	7.344	5.950
72.004	10.072	Pipe	143.890		0.6	600	10.000	6.100
T3.005	12.999	Pipe	144.431		0.6	150	10.230	9.750
T8.002	19.175	Pipe	8.057		0.6	150	9.800	8.400
T2.005	4.532	Pipe	1.563		0.6	150	11.779	9.000
T1.002	5.032	Pipe	83.864		0.6	225	4.000	2.500
T1.001	3.278	Pipe	7.451		0.6	150	4.000	2.440
Pipe	2.030	Pipe	1.532		0.6	150	4.000	3.325
EXG OUTFALL	4.540	Pipe	2.389		0.6	150	3.800	2.000
Pipe (2)	7.408	Pipe	12.144		0.6	150	6.480	5.805
Pipe (3)	36.956	Pipe	19.763		0.6	225	5.870	5.195
T2.008	7.751	Pipe	3.091		0.6	100	18.166	16.938
T2.007	8.138	Pipe	8.751		0.6	100	15.417	14.430
Pipe (1)	1.987	Pipe	1.500		0.6	150	4.000	3.325


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Report Details: Type: Connections Storm Phase: Phase	Designer: MBA Consulting		



Name	Downstream Cover Level (m)	Downstream Invert Level (m)	Lock
T1.003	4.000	2.500	None
T1.004	6.280	4.930	None
T1.005	6.920	5.570	None
T1.006	10.050	9.360	None
T1.009	10.249	9.470	None
T6.001	18.166	16.938	None
T3.004	10.568	9.580	None
T3.003	10.770	9.490	None
T3.002	10.507	9.430	None
T3.001	10.237	9.390	None
T2.006	11.779	9.000	None
T5.004	13.134	11.510	None
T5.003	13.480	10.920	None
T5.002	13.634	9.890	None
T5.001	10.570	9.540	None
T1.011	16.265	14.720	None
T2.009	18.166	16.938	None
T2.003	7.566	5.960	None
T8.001	7.566	5.960	None
T1.010	10.570	9.540	None
T4.001	10.249	9.470	None
T1.008	10.246	9.450	None
T8.003	9.800	8.400	None
T1.007	10.237	9.390	None
T2.002	7.344	5.950	None
T2.001	6.920	5.570	None
T2.004	8.603	6.030	None
T3.005	10.359	9.660	None
T8.002	8.387	6.020	None
T2.005	10.000	6.100	None
T1.002	4.000	2.440	None
T1.001	3.800	2.000	None
Pipe	3.800	2.000	None
EXG OUTFALL	1.000	0.100	None
Pipe (2)	5.870	5.195	None
Pipe (3)	4.000	3.325	None
T2.008	15.417	14.430	None
T2.007	15.443	13.500	None
Pipe (1)	3.800	2.000	None

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Report Details: Type: Manhole Schedule Storm Phase: Phase		Designed by: MFS	Checked by:	
		Designer: MBA Consulting		


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
S1.003	4.000 2.500	Diameter / Length: 1.200	{1} T1.003	Pipe	2.500	Diam/Width:150	Manhole
E:90786.090 N:10683.816	1.500		{a} T1.002	Pipe	2.500	Diam/Width:225	Not Applicable
S1.004	6.280 4.930	Diameter / Length: 0.450	{1} T1.004	Pipe	4.930	Diam/Width:150	Manhole
E:90748.205 N:10675.361	1.350		{a} T1.003	Pipe	4.930	Diam/Width:150	Not Applicable
SWMH 3	10.050 9.360	Diameter / Length: 1.200	{1} T1.006	Pipe	9.360	Diam/Width:150	Manhole
E:90703.504 N:10678.440	0.690		{a} T1.005	Pipe	9.360	Diam/Width:150	Not Applicable
S1.006	10.237 9.390	Diameter / Length: 1.500	{1} T3.001	Pipe	9.390	Diam/Width:300	Manhole
E:90702.518 N:10674.279	0.847		{2} T1.007	Pipe	9.390	Diam/Width:225	
			{a} T1.006	Pipe	9.390	Diam/Width:150	Not Applicable
S1.008	10.249 9.470	Diameter / Length: 1.500	{1} T1.009	Pipe	9.470	Diam/Width:300	Manhole
E:90702.995 N:10663.918	0.779		{2} T4.001	Pipe	9.470	Diam/Width:300	
			{a} T1.008	Pipe	9.470	Diam/Width:300	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	
S1.009	10.570 9.540	Diameter / Length: 1.200	{1} T5.001	Pipe	9.540	Diam/Width:150	Manhole
E:90700.991 N:10659.524	1.030		{2} T1.010	Pipe	9.540	Diam/Width:150	
			{a} T1.009	Pipe	9.540	Diam/Width:300	Not Applicable
S2.008	18.166 16.938	Diameter / Length: 0.450	{1} T2.009	Pipe	16.938	Diam/Width:100	Manhole
E:90710.403 N:10642.540	1.228		{2} T6.001	Pipe	16.938	Diam/Width:100	
			{a} T2.008	Pipe	16.938	Diam/Width:100	Not Applicable
S6.001	19.336 18.350	Diameter / Length: 0.450					Manhole
E:90683.379 N:10640.119	0.986		{a} T6.001	Pipe	18.350	Diam/Width:100	
S8.003	9.860 8.870	Diameter / Length: 0.450					Manhole
E:90710.052 N:10668.383	0.990		{a} T8.003	Pipe	8.870	Diam/Width:100	
S8.001	8.387 6.020	Diameter / Length: 1.500	{1} T8.002	Pipe	6.020	Diam/Width:150	Manhole
E:90729.648 N:10672.663	2.367		{a} T8.001	Pipe	6.020	Diam/Width:600	

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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	
S2.002	7.566 5.960	Diameter / Length: 1.500	{1} T2.003	Pipe	5.960	Diam/Width:600	Manhole
E:90738.211 N:10671.161	1.606		{2} T8.001	Pipe	5.960	Diam/Width:600	
			{a} T2.002	Pipe	5.960	Diam/Width:150	Not Applicable
S2.003	8.603 6.030	Diameter / Length: 1.500	{1} T2.004	Pipe	6.030	Diam/Width:600	Manhole
E:90737.610 N:10660.739	2.573						
			{a} T2.003	Pipe	6.030	Diam/Width:600	Not Applicable
S3.001	10.507 9.430	Diameter / Length: 1.200	{1} T3.002	Pipe	9.430	Diam/Width:150	Manhole
E:90697.273 N:10675.148	1.077						
			{a} T3.001	Pipe	9.430	Diam/Width:300	Not Applicable
S3.002	10.770 9.490	Diameter / Length: 0.450	{1} T3.003	Pipe	9.490	Diam/Width:150	Manhole
E:90688.790 N:10673.645	1.280						
			{a} T3.002	Pipe	9.490	Diam/Width:150	Not Applicable
S3.003	10.568 9.580	Diameter / Length: 0.450	{1} T3.004	Pipe	9.580	Diam/Width:150	Manhole
E:90675.635 N:10670.384	0.988						
			{a} T3.003	Pipe	9.580	Diam/Width:150	Not Applicable

Project: 21185 Carn Thomas Isles of Scilly		Date: 18/03/2024			 MBA CONSULTING consultingstructural &civilengineers
Report Details: Type: Manhole Schedule Storm Phase: Phase		Designed by: MFS	Checked by:	Approved By:	
		Designer: MBA Consulting			


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
S3.004	10.359 9.660	Diameter / Length: 0.450	{1} T3.005	Pipe	9.660	Diam/Width:150	Manhole
E:90664.761 N:10667.850	0.699		{a} T3.004	Pipe	9.660	Diam/Width:150	Not Applicable
S4.001	10.342 9.550	Diameter / Length: 1.200					Manhole
E:90708.838 N:10659.394	0.792		{a} T4.001	Pipe	9.550	Diam/Width:300	Not Applicable
S2.005	11.779 9.000	Diameter / Length: 0.450	{1} T2.006	Pipe	9.000	Diam/Width:100	Manhole
E:90723.515 N:10657.887	2.779		{a} T2.005	Pipe	9.000	Diam/Width:150	Not Applicable
S2.006	15.443 13.500	Diameter / Length: 0.450	{1} T2.007	Pipe	13.500	Diam/Width:100	Manhole
E:90720.771 N:10647.630	1.943		{a} T2.006	Pipe	13.500	Diam/Width:100	Not Applicable
S5.001	13.634 9.890	Diameter / Length: 0.450	{1} T5.002	Pipe	9.890	Diam/Width:100	Manhole
E:90697.288 N:10659.036	3.744		{a} T5.001	Pipe	9.890	Diam/Width:150	Not Applicable

Project: 21185 Carn Thomas Isles of Scilly		Date: 18/03/2024			 MBA CONSULTING consultingstructural & civilengineers
Report Details: Type: Manhole Schedule Storm Phase: Phase		Designed by: MFS	Checked by:	Approved By:	
		Designer: MBA Consulting			


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	
S5.002	13.480 10.920	Diameter / Length: 0.450	{1} T5.003	Pipe	10.920	Diam/Width:100	Manhole
E:90687.109 N:10657.591	2.560		{a} T5.002	Pipe	10.920	Diam/Width:100	Not Applicable
S5.003	13.134 11.510	Diameter / Length: 0.450	{1} T5.004	Pipe	11.510	Diam/Width:100	Manhole
E:90675.450 N:10655.765	1.624		{a} T5.003	Pipe	11.510	Diam/Width:100	Not Applicable
S5.004	13.085 12.060	Diameter / Length: 0.450					Manhole
E:90664.821 N:10653.241	1.025		{a} T5.004	Pipe	12.060	Diam/Width:100	Not Applicable
S1.010	16.265 14.720	Diameter / Length: 0.450	{1} T1.011	Pipe	14.720	Diam/Width:100	Manhole
E:90694.703 N:10650.822	1.545		{a} T1.010	Pipe	14.720	Diam/Width:150	Not Applicable
S1.011	16.820 14.860	Diameter / Length: 0.450					Manhole
E:90680.918 N:10648.914	1.960		{a} T1.011	Pipe	14.860	Diam/Width:100	Not Applicable

Project: 21185 Carn Thomas Isles of Scilly		Date: 18/03/2024		MBA CONSULTING consulting structural & civil engineers
Report Details: Type: Manhole Schedule Storm Phase: Phase		Designed by: MFS	Checked by:	
		Designer: MBA Consulting		


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	
S2.009	18.147 17.147	Diameter / Length: 0.450					Manhole
E:90719.628 N:10639.124	1.000		{a} T2.009	Pipe	17.147	Diam/Width:100	Not Applicable
S1.001	3.800 2.000	Diameter / Length: 0.450	{1} T1.001	Pipe	2.000	Diam/Width:150	Manhole
E:90782.395 N:10690.965	1.800		{2} Pipe	Pipe	2.000	Diam/Width:150	
			{3} Pipe (1)	Pipe	2.000	Diam/Width:150	
			{a} EXG OUTFALL	Pipe	2.000	Diam/Width:150	Not Applicable
S1.005	6.920 5.570	Diameter / Length: 0.450	{1} T1.005	Pipe	5.570	Diam/Width:150	Manhole
E:90738.799 N:10675.751	1.350		{2} T2.001	Pipe	5.570	Diam/Width:100	
			{a} T1.004	Pipe	5.570	Diam/Width:150	Not Applicable
S1.007	10.246 9.450	Diameter / Length: 1.500	{1} T1.008	Pipe	9.450	Diam/Width:300	Manhole
E:90702.694 N:10666.385	0.796		{a} T1.007	Pipe	9.450	Diam/Width:225	Not Applicable

Project: 21185 Carn Thomas Isles of Scilly	Date: 18/03/2024	 MBA CONSULTING consultingstructural & civilengineers
Report Details: Type: Manhole Schedule Storm Phase: Phase	Designed by: MFS Checked by: Approved By: Designer: MBA Consulting	

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	
S8.002	9.800 8.400	Diameter / Length: 0.450	{1} T8.003	Pipe	8.400	Diam/Width:100	Manhole
E:90710.525 N:10674.070	1.400		{a} T8.002	Pipe	8.400	Diam/Width:150	Not Applicable
S2.001	7.344 5.950	Diameter / Length: 0.450	{1} T2.002	Pipe	5.950	Diam/Width:150	Manhole
E:90738.377 N:10672.417	1.394		{a} T2.001	Pipe	5.950	Diam/Width:100	Not Applicable
S2.004	10.000 6.100	Diameter / Length: 1.500	{1} T2.005	Pipe	6.100	Diam/Width:150	Manhole
E:90727.572 N:10659.907	3.900		{a} 72.004	Pipe	6.100	Diam/Width:600	Not Applicable
S3.005	10.230 9.750	Diameter / Length: 0.450					Manhole
E:90652.170 N:10664.618	0.480		{a} T3.005	Pipe	9.750	Diam/Width:150	Not Applicable
S1.002	4.000 2.440	Diameter / Length: 1.200	{1} T1.002	Pipe	2.440	Diam/Width:225	Manhole
E:90784.727 N:10688.660	1.560		{a} T1.001	Pipe	2.440	Diam/Width:150	Not Applicable

Project: 21185 Carn Thomas Isles of Scilly	Date: 18/03/2024	 MBA CONSULTING consulting structural & civil engineers
Report Details: Type: Manhole Schedule Storm Phase: Phase	Designed by: MFS Checked by: Approved By: Designer: MBA Consulting	

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	
G3	4.000 3.325	Diameter / Length: 0.450	{1} Pipe (3)	Pipe	3.325	Diam/Width:225	Manhole
E:90782.860 N:10688.989	0.675		{a} Pipe	Pipe	3.325	Diam/Width:150	Not Applicable
Outfall	1.000 0.100	Diameter / Length: 0.450	{1} EXG OUTFALL	Pipe	0.100	Diam/Width:150	Manhole
E:90781.244 N:10695.356	0.900						Not Applicable
G2	6.480 5.805	Diameter / Length: 0.450					Manhole
E:90743.634 N:10674.311	0.675		{a} Pipe (2)	Pipe	5.805	Diam/Width:150	Not Applicable
G1	5.870 5.195	Diameter / Length: 0.450	{1} Pipe (2)	Pipe	5.195	Diam/Width:150	Manhole
E:90746.773 N:10681.021	0.675		{a} Pipe (3)	Pipe	5.195	Diam/Width:225	Not Applicable
S2.007	15.417 14.430	Diameter / Length: 0.450	{1} T2.008	Pipe	14.430	Diam/Width:100	Manhole
E:90712.946 N:10649.862	0.987		{a} T2.007	Pipe	14.430	Diam/Width:100	Not Applicable


Project: 21185 Carn Thomas Isles of Scilly		Date: 18/03/2024			 MBA CONSULTING consultingstructural &civilengineers
Report Details: Type: Manhole Schedule Storm Phase: Phase		Designed by: MFS	Checked by:	Approved By:	
		Designer: MBA Consulting			

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
G4	4.000 3.325	Diameter / Length: 0.450					Manhole
E:90783.271 N:10689.181	0.675						
			{a} Pipe (1)	Pipe	3.325	Diam/Width:150	Not Applicable

Project: 21185 Carn Thomas Isles of Scilly	Date: 18/03/2024		
	Designed by: MFS	Checked by:	Approved By:
Report Details: Type: Inflow Summary Storm Phase: Phase	Designer: MBA Consulting		



Inflow Label	Connected To	Flow (L/s)	Runoff Method	Area (ha)	Percentage Impervious (%)	Urban Creep (%)	Adjusted Percentage Impervious (%)	Area Analysed (ha)
C0	S5.004		Time of Concentration	0.006	100	10	110	0.006
C1	S5.003		Time of Concentration	0.006	100	10	110	0.007
C2	S5.002		Time of Concentration	0.006	100	10	110	0.007
C3	S5.001		Time of Concentration	0.006	100	10	110	0.007
C4	S3.004		Time of Concentration	0.006	100	10	110	0.007
C5	S3.003		Time of Concentration	0.006	100	10	110	0.007
C6	S3.005		Time of Concentration	0.007	100	10	110	0.008
C7	S3.002		Time of Concentration	0.006	100	10	110	0.007
C8	S3.001		Time of Concentration	0.006	100	10	110	0.007
C9	S8.003		Time of Concentration	0.011	100	10	110	0.012
C10	S2.005		Time of Concentration	0.002	100	0	100	0.002
C11	S8.002		Time of Concentration	0.005	100	10	110	0.006
C12	S8.003		Time of Concentration	0.003	100	10	110	0.003
C13	S2.004		Time of Concentration	0.006	100	10	110	0.007
C14	S8.001		Time of Concentration	0.006	100	10	110	0.006
C15	S2.002		Time of Concentration	0.003	100	10	110	0.003
C16	S2.003		Time of Concentration	0.003	100	10	110	0.003
C17	S4.001		Time of Concentration	0.003	100	10	110	0.004
C18	S1.011		Time of Concentration	0.003	100	10	110	0.003
C19	S6.001		Time of Concentration	0.003	100	10	110	0.003
C20	S1.011		Time of Concentration	0.003	100	10	110	0.003
C21	S6.001		Time of Concentration	0.003	100	10	110	0.003
C22	S1.010		Time of Concentration	0.003	100	10	110	0.003
C23	S2.008		Time of Concentration	0.003	100	10	110	0.003
C24	S2.006		Time of Concentration	0.003	100	10	110	0.003
C25	S2.009		Time of Concentration	0.003	100	10	110	0.003
C26	S2.009		Time of Concentration	0.003	100	10	110	0.003
C27	S2.006		Time of Concentration	0.003	100	10	110	0.003
C28	S8.002		Time of Concentration	0.009	100	10	110	0.010
Catchment Area	S3.001		Time of Concentration	0.002	100	10	110	0.003
Catchment Area (1)	S4.001		Time of Concentration	0.006	100	10	110	0.007
Catchment Area (2)	S1.010		Time of Concentration	0.004	100	10	110	0.004
Catchment Area (3)	S2.006		Time of Concentration	0.002	100	10	110	0.002


Project: 21185 Carn Thomas Isles of Scilly		Date: 18/03/2024			 MBA CONSULTING consultingstructural &civilengineers	
Report Details: Type: Inflow Summary Storm Phase: Phase		Designed by: MFS	Checked by:	Approved By:		
		Designer: MBA Consulting				

Catchment Area (4)	S2.005		Time of Concentration	0.003	100	0	100	0.003
Catchment Area (5)	S3.003		Time of Concentration	0.002	100	0	100	0.002
Road to G1	G1		Time of Concentration	0.026	100	0	100	0.026
Road to G2	G2		Time of Concentration	0.026	100	0	100	0.026
Road to G3	G3		Time of Concentration	0.042	100	0	100	0.042
Road to G4	G4		Time of Concentration	0.047	100	0	100	0.047
TOTAL		0.0		0.297				0.312

Project: 21185 Carn Thomas Isles of Scilly	Date: 18/03/2024			MBA CONSULTING consulting structural & civil engineers
	Designed by: MFS	Checked by:	Approved By:	
Report Details: Type: Outfall Details Storm Phase: Phase	Designer: MBA Consulting			

Outfalls

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

Project: 21185 Carn Thomas Isles of Scilly	Date: 18/03/2024		
Report Title: Rainfall Analysis Criteria	Designed by: MFS	Checked by:	Approved By:
	Designer: MBA Consulting	consultinstructural &civilengineers	

Runoff Type	Dynamic
Output Interval (mins)	5
Time Step	Default
Urban Creep	Use Catchment Values
Junction Flood Risk Margin (mm)	300
Perform No Discharge Analysis	<input type="checkbox"/>

Rainfall


FEH	Type: FEH
Site Location	GB 134289 25014 SW 34289 25014
Rainfall Version	2022
Summer	<input checked="" type="checkbox"/>
Winter	<input checked="" type="checkbox"/>

Return Period

Return Period (years)	Increase Rainfall (%)
100.0	50.000
30.0	50.000
10.0	50.000
10.0	0.000

Storm Durations

Duration (mins)	Run Time (mins)
15	30
30	60
60	120
120	240
180	360
240	480
360	720
480	960
600	1200
720	1440
960	1920
1440	2880
2160	4320
2880	5760

Project: 21185 Carn Thomas Isles of Scilly	Date: 18/03/2024		
Report Details: Type: Inflows Summary Storm Phase: Phase	Designed by: MFS	Checked by:	Approved By:
	Designer: MBA Consulting		consultinastructural &civilengineers



FEH: 100 years: Increase Rainfall (%): +50: Critical Storm Per Item: Rank By: Max. Inflow

Inflow	Storm Event	Inflow Area (ha)	Max. Inflow (L/s)	Total Inflow Volume (m³)
C0	FEH: 100 years: +50 %: 15 mins: Winter	0.01	4.7	2.155
C1	FEH: 100 years: +50 %: 15 mins: Winter	0.01	5.3	2.452
C2	FEH: 100 years: +50 %: 15 mins: Winter	0.01	5.3	2.452
C3	FEH: 100 years: +50 %: 15 mins: Winter	0.01	5.2	2.398
C4	FEH: 100 years: +50 %: 15 mins: Winter	0.01	5.3	2.452
C5	FEH: 100 years: +50 %: 15 mins: Winter	0.01	4.9	2.287
C6	FEH: 100 years: +50 %: 15 mins: Winter	0.01	5.7	2.638
C7	FEH: 100 years: +50 %: 15 mins: Winter	0.01	5.3	2.473
C8	FEH: 100 years: +50 %: 15 mins: Winter	0.01	5.2	2.416
C9	FEH: 100 years: +50 %: 15 mins: Winter	0.01	8.9	4.096
C10	FEH: 100 years: +50 %: 15 mins: Winter	0.00	1.3	0.600
C11	FEH: 100 years: +50 %: 15 mins: Winter	0.01	4.3	1.990
C12	FEH: 100 years: +50 %: 15 mins: Winter	0.00	2.2	1.011
C13	FEH: 100 years: +50 %: 15 mins: Winter	0.01	5.1	2.383
C14	FEH: 100 years: +50 %: 15 mins: Winter	0.01	4.8	2.212

Project: 21185 Carn Thomas Isles of Scilly		Date: 18/03/2024		
Report Details: Type: Inflows Summary Storm Phase: Phase		Designed by: MFS	Checked by:	Approved By:
		Designer: MBA Consulting		




C15	FEH: 100 years: +50 %: 15 mins: Winter	0.00	2.5	1.161
C16	FEH: 100 years: +50 %: 15 mins: Winter	0.00	2.5	1.164
C17	FEH: 100 years: +50 %: 15 mins: Winter	0.00	2.9	1.320
C18	FEH: 100 years: +50 %: 15 mins: Winter	0.00	2.4	1.128
C19	FEH: 100 years: +50 %: 15 mins: Winter	0.00	2.5	1.152
C20	FEH: 100 years: +50 %: 15 mins: Winter	0.00	2.4	1.128
C21	FEH: 100 years: +50 %: 15 mins: Winter	0.00	2.5	1.146
C22	FEH: 100 years: +50 %: 15 mins: Winter	0.00	2.5	1.149
C23	FEH: 100 years: +50 %: 15 mins: Winter	0.00	2.4	1.101
C24	FEH: 100 years: +50 %: 15 mins: Winter	0.00	2.4	1.128
C25	FEH: 100 years: +50 %: 15 mins: Winter	0.00	2.4	1.128
C26	FEH: 100 years: +50 %: 15 mins: Winter	0.00	2.3	1.083
C27	FEH: 100 years: +50 %: 15 mins: Winter	0.00	2.3	1.083
C28	FEH: 100 years: +50 %: 15 mins: Winter	0.01	7.3	3.376
Catchment Area	FEH: 100 years: +50 %: 15 mins: Winter	0.00	1.9	0.873
Catchment Area (1)	FEH: 100 years: +50 %: 15 mins: Winter	0.01	5.1	2.347
Catchment Area (2)	FEH: 100 years: +50 %: 15 mins: Winter	0.00	3.2	1.479

Project: 21185 Carn Thomas Isles of Scilly		Date: 18/03/2024		
Report Details: Type: Inflows Summary Storm Phase: Phase		Designed by: MFS	Checked by:	Approved By:
		Designer: MBA Consulting		



Catchment Area (3)	FEH: 100 years: +50 %: 15 mins: Winter	0.00	1.8	0.822
Catchment Area (4)	FEH: 100 years: +50 %: 15 mins: Winter	0.00	2.1	0.957
Catchment Area (5)	FEH: 100 years: +50 %: 15 mins: Winter	0.00	1.6	0.738
Road to G3	FEH: 100 years: +50 %: 15 mins: Winter	0.04	31.4	14.506
Road to G4	FEH: 100 years: +50 %: 15 mins: Winter	0.05	35.2	16.276
Road to G1	FEH: 100 years: +50 %: 15 mins: Winter	0.03	19.7	9.119
Road to G2	FEH: 100 years: +50 %: 15 mins: Winter	0.03	19.6	9.065

Project: 21185 Carn Thomas Isles of Scilly	Date: 18/03/2024	 MBA CONSULTING consultinastructural & civilengineers
Report Details: Type: Inflows Summary Storm Phase: Phase	Designed by: MFS Checked by: Approved By: Designer: MBA Consulting	



FEH: 30 years: Increase Rainfall (%): +50: Critical Storm Per Item: Rank By: Max. Inflow

Inflow	Storm Event	Inflow Area (ha)	Max. Inflow (L/s)	Total Inflow Volume (m³)
C0	FEH: 30 years: +50 %: 15 mins: Winter	0.01	3.4	1.593
C1	FEH: 30 years: +50 %: 15 mins: Winter	0.01	3.9	1.812
C2	FEH: 30 years: +50 %: 15 mins: Winter	0.01	3.9	1.812
C3	FEH: 30 years: +50 %: 15 mins: Winter	0.01	3.8	1.767
C4	FEH: 30 years: +50 %: 15 mins: Winter	0.01	3.9	1.812
C5	FEH: 30 years: +50 %: 15 mins: Winter	0.01	3.7	1.692
C6	FEH: 30 years: +50 %: 15 mins: Winter	0.01	4.2	1.950
C7	FEH: 30 years: +50 %: 15 mins: Winter	0.01	4.0	1.830
C8	FEH: 30 years: +50 %: 15 mins: Winter	0.01	3.9	1.785
C9	FEH: 30 years: +50 %: 15 mins: Winter	0.01	6.5	3.020
C10	FEH: 30 years: +50 %: 15 mins: Winter	0.00	1.0	0.444
C11	FEH: 30 years: +50 %: 15 mins: Winter	0.01	3.2	1.470
C12	FEH: 30 years: +50 %: 15 mins: Winter	0.00	1.6	0.750
C13	FEH: 30 years: +50 %: 15 mins: Winter	0.01	3.8	1.761
C14	FEH: 30 years: +50 %: 15 mins: Winter	0.01	3.5	1.632

Project: 21185 Carn Thomas Isles of Scilly		Date: 18/03/2024		
Report Details: Type: Inflows Summary Storm Phase: Phase		Designed by: MFS	Checked by:	Approved By:
		Designer: MBA Consulting		




C15	FEH: 30 years: +50 %: 15 mins: Winter	0.00	1.9	0.858
C16	FEH: 30 years: +50 %: 15 mins: Winter	0.00	1.9	0.858
C17	FEH: 30 years: +50 %: 15 mins: Winter	0.00	2.1	0.978
C18	FEH: 30 years: +50 %: 15 mins: Winter	0.00	1.8	0.834
C19	FEH: 30 years: +50 %: 15 mins: Winter	0.00	1.8	0.855
C20	FEH: 30 years: +50 %: 15 mins: Winter	0.00	1.8	0.834
C21	FEH: 30 years: +50 %: 15 mins: Winter	0.00	1.8	0.843
C22	FEH: 30 years: +50 %: 15 mins: Winter	0.00	1.8	0.846
C23	FEH: 30 years: +50 %: 15 mins: Winter	0.00	1.8	0.819
C24	FEH: 30 years: +50 %: 15 mins: Winter	0.00	1.8	0.834
C25	FEH: 30 years: +50 %: 15 mins: Winter	0.00	1.8	0.834
C26	FEH: 30 years: +50 %: 15 mins: Winter	0.00	1.7	0.804
C27	FEH: 30 years: +50 %: 15 mins: Winter	0.00	1.7	0.804
C28	FEH: 30 years: +50 %: 15 mins: Winter	0.01	5.4	2.490
Catchment Area	FEH: 30 years: +50 %: 15 mins: Winter	0.00	1.4	0.645
Catchment Area (1)	FEH: 30 years: +50 %: 15 mins: Winter	0.01	3.7	1.731
Catchment Area (2)	FEH: 30 years: +50 %: 15 mins: Winter	0.00	2.4	1.095

Project: 21185 Carn Thomas Isles of Scilly		Date: 18/03/2024		
Report Details: Type: Inflows Summary Storm Phase: Phase		Designed by: MFS	Checked by:	Approved By:
		Designer: MBA Consulting		



Catchment Area (3)	FEH: 30 years: +50 %: 15 mins: Winter	0.00	1.3	0.603
Catchment Area (4)	FEH: 30 years: +50 %: 15 mins: Winter	0.00	1.5	0.705
Catchment Area (5)	FEH: 30 years: +50 %: 15 mins: Winter	0.00	1.2	0.546
Road to G3	FEH: 30 years: +50 %: 15 mins: Winter	0.04	23.2	10.714
Road to G4	FEH: 30 years: +50 %: 15 mins: Winter	0.05	26.0	12.028
Road to G1	FEH: 30 years: +50 %: 15 mins: Winter	0.03	14.6	6.737
Road to G2	FEH: 30 years: +50 %: 15 mins: Winter	0.03	14.5	6.698

Project: 21185 Carn Thomas Isles of Scilly	Date: 18/03/2024	 MBA CONSULTING consulting structural & civil engineers
Report Details: Type: Inflows Summary Storm Phase: Phase	Designed by: MFS Checked by: Approved By: Designer: MBA Consulting	



FEH: 10 years: Increase Rainfall (%): +50: Critical Storm Per Item: Rank By: Max. Inflow

Inflow	Storm Event	Inflow Area (ha)	Max. Inflow (L/s)	Total Inflow Volume (m³)
C0	FEH: 10 years: +50 %: 15 mins: Winter	0.01	2.6	1.185
C1	FEH: 10 years: +50 %: 15 mins: Winter	0.01	2.9	1.350
C2	FEH: 10 years: +50 %: 15 mins: Winter	0.01	2.9	1.350
C3	FEH: 10 years: +50 %: 15 mins: Winter	0.01	2.8	1.317
C4	FEH: 10 years: +50 %: 15 mins: Winter	0.01	2.9	1.350
C5	FEH: 10 years: +50 %: 15 mins: Winter	0.01	2.7	1.257
C6	FEH: 10 years: +50 %: 15 mins: Winter	0.01	3.1	1.452
C7	FEH: 10 years: +50 %: 15 mins: Winter	0.01	2.9	1.359
C8	FEH: 10 years: +50 %: 15 mins: Winter	0.01	2.9	1.332
C9	FEH: 10 years: +50 %: 15 mins: Winter	0.01	4.9	2.249
C10	FEH: 10 years: +50 %: 15 mins: Winter	0.00	0.7	0.330
C11	FEH: 10 years: +50 %: 15 mins: Winter	0.01	2.4	1.095
C12	FEH: 10 years: +50 %: 15 mins: Winter	0.00	1.2	0.555
C13	FEH: 10 years: +50 %: 15 mins: Winter	0.01	2.8	1.308
C14	FEH: 10 years: +50 %: 15 mins: Winter	0.01	2.6	1.218

Project: 21185 Carn Thomas Isles of Scilly		Date: 18/03/2024		
Report Details: Type: Inflows Summary Storm Phase: Phase		Designed by: MFS	Checked by:	Approved By:
		Designer: MBA Consulting		





C15	FEH: 10 years: +50 %: 15 mins: Winter	0.00	1.4	0.636
C16	FEH: 10 years: +50 %: 15 mins: Winter	0.00	1.4	0.639
C17	FEH: 10 years: +50 %: 15 mins: Winter	0.00	1.6	0.726
C18	FEH: 10 years: +50 %: 15 mins: Winter	0.00	1.3	0.618
C19	FEH: 10 years: +50 %: 15 mins: Winter	0.00	1.4	0.636
C20	FEH: 10 years: +50 %: 15 mins: Winter	0.00	1.3	0.618
C21	FEH: 10 years: +50 %: 15 mins: Winter	0.00	1.4	0.633
C22	FEH: 10 years: +50 %: 15 mins: Winter	0.00	1.4	0.633
C23	FEH: 10 years: +50 %: 15 mins: Winter	0.00	1.3	0.606
C24	FEH: 10 years: +50 %: 15 mins: Winter	0.00	1.3	0.618
C25	FEH: 10 years: +50 %: 15 mins: Winter	0.00	1.3	0.618
C26	FEH: 10 years: +50 %: 15 mins: Winter	0.00	1.3	0.600
C27	FEH: 10 years: +50 %: 15 mins: Winter	0.00	1.3	0.600
C28	FEH: 10 years: +50 %: 15 mins: Winter	0.01	4.0	1.853
Catchment Area	FEH: 10 years: +50 %: 15 mins: Winter	0.00	1.0	0.480
Catchment Area (1)	FEH: 10 years: +50 %: 15 mins: Winter	0.01	2.8	1.287
Catchment Area (2)	FEH: 10 years: +50 %: 15 mins: Winter	0.00	1.8	0.819

Project: 21185 Carn Thomas Isles of Scilly		Date: 18/03/2024		
Report Details: Type: Inflows Summary Storm Phase: Phase		Designed by: MFS	Checked by:	Approved By:
		Designer: MBA Consulting		



Catchment Area (3)	FEH: 10 years: +50 %: 15 mins: Winter	0.00	1.0	0.450
Catchment Area (4)	FEH: 10 years: +50 %: 15 mins: Winter	0.00	1.1	0.528
Catchment Area (5)	FEH: 10 years: +50 %: 15 mins: Winter	0.00	0.9	0.408
Road to G3	FEH: 10 years: +50 %: 15 mins: Winter	0.04	17.3	7.984
Road to G4	FEH: 10 years: +50 %: 15 mins: Winter	0.05	19.4	8.958
Road to G1	FEH: 10 years: +50 %: 15 mins: Winter	0.03	10.8	5.018
Road to G2	FEH: 10 years: +50 %: 15 mins: Winter	0.03	10.8	4.988

Project: 21185 Carn Thomas Isles of Scilly	Date: 18/03/2024		
Report Details: Type: Inflows Summary Storm Phase: Phase	Designed by: MFS	Checked by:	Approved By:
	Designer: MBA Consulting		



FEH: 10 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)
C0	FEH: 10 years: +0 %: 15 mins: Winter	0.01	1.7	0.788
C1	FEH: 10 years: +0 %: 15 mins: Winter	0.01	1.9	0.896
C2	FEH: 10 years: +0 %: 15 mins: Winter	0.01	1.9	0.896
C3	FEH: 10 years: +0 %: 15 mins: Winter	0.01	1.9	0.875
C4	FEH: 10 years: +0 %: 15 mins: Winter	0.01	1.9	0.896
C5	FEH: 10 years: +0 %: 15 mins: Winter	0.01	1.8	0.839
C6	FEH: 10 years: +0 %: 15 mins: Winter	0.01	2.1	0.965
C7	FEH: 10 years: +0 %: 15 mins: Winter	0.01	2.0	0.908
C8	FEH: 10 years: +0 %: 15 mins: Winter	0.01	1.9	0.887
C9	FEH: 10 years: +0 %: 15 mins: Winter	0.01	3.2	1.502
C10	FEH: 10 years: +0 %: 15 mins: Winter	0.00	0.5	0.222
C11	FEH: 10 years: +0 %: 15 mins: Winter	0.01	1.6	0.731
C12	FEH: 10 years: +0 %: 15 mins: Winter	0.00	0.8	0.372
C13	FEH: 10 years: +0 %: 15 mins: Winter	0.01	1.9	0.872
C14	FEH: 10 years: +0 %: 15 mins: Winter	0.01	1.8	0.809

Project: 21185 Carn Thomas Isles of Scilly		Date: 18/03/2024		
Report Details: Type: Inflows Summary Storm Phase: Phase		Designed by: MFS	Checked by:	Approved By:
		Designer: MBA Consulting		




C15	FEH: 10 years: +0 %: 15 mins: Winter	0.00	0.9	0.426
C16	FEH: 10 years: +0 %: 15 mins: Winter	0.00	0.9	0.426
C17	FEH: 10 years: +0 %: 15 mins: Winter	0.00	1.0	0.483
C18	FEH: 10 years: +0 %: 15 mins: Winter	0.00	0.9	0.414
C19	FEH: 10 years: +0 %: 15 mins: Winter	0.00	0.9	0.426
C20	FEH: 10 years: +0 %: 15 mins: Winter	0.00	0.9	0.414
C21	FEH: 10 years: +0 %: 15 mins: Winter	0.00	0.9	0.417
C22	FEH: 10 years: +0 %: 15 mins: Winter	0.00	0.9	0.423
C23	FEH: 10 years: +0 %: 15 mins: Winter	0.00	0.9	0.408
C24	FEH: 10 years: +0 %: 15 mins: Winter	0.00	0.9	0.414
C25	FEH: 10 years: +0 %: 15 mins: Winter	0.00	0.9	0.414
C26	FEH: 10 years: +0 %: 15 mins: Winter	0.00	0.9	0.396
C27	FEH: 10 years: +0 %: 15 mins: Winter	0.00	0.9	0.396
C28	FEH: 10 years: +0 %: 15 mins: Winter	0.01	2.7	1.235
Catchment Area	FEH: 10 years: +0 %: 15 mins: Winter	0.00	0.7	0.321
Catchment Area (1)	FEH: 10 years: +0 %: 15 mins: Winter	0.01	1.9	0.857
Catchment Area (2)	FEH: 10 years: +0 %: 15 mins: Winter	0.00	1.2	0.546

Project: 21185 Carn Thomas Isles of Scilly		Date: 18/03/2024		
Report Details: Type: Inflows Summary Storm Phase: Phase		Designed by: MFS	Checked by:	Approved By:
		Designer: MBA Consulting		




Catchment Area (3)	FEH: 10 years: +0 %: 15 mins: Winter	0.00	0.6	0.303
Catchment Area (4)	FEH: 10 years: +0 %: 15 mins: Winter	0.00	0.8	0.348
Catchment Area (5)	FEH: 10 years: +0 %: 15 mins: Winter	0.00	0.6	0.273
Road to G3	FEH: 10 years: +0 %: 15 mins: Winter	0.04	11.5	5.315
Road to G4	FEH: 10 years: +0 %: 15 mins: Winter	0.05	12.9	5.966
Road to G1	FEH: 10 years: +0 %: 15 mins: Winter	0.03	7.2	3.342
Road to G2	FEH: 10 years: +0 %: 15 mins: Winter	0.03	7.2	3.324

Project: 21185 Carn Thomas Isles of Scilly	Date: 18/03/2024		
Report Details: Type: Junctions Summary Storm Phase: Phase	Designed by: MFS	Checked by:	Approved By:
	Designer: MBA Consulting		consulting structural & civil engineers



FEH: 100 years: Increase Rainfall (%): +50: 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
S1.003	FEH: 100 years: +50 %: 15 mins: Winter	4.000	2.500	3.898	1.398	47.4	1.581	0.000	49.1	55.899	Flood Risk
S1.004	FEH: 100 years: +50 %: 30 mins: Winter	6.280	4.930	6.163	1.233	47.7	0.196	0.000	48.5	81.324	Flood Risk
SWMH 3	FEH: 100 years: +50 %: 15 mins: Winter	10.05 0	9.360	9.450	0.090	38.2	0.101	0.000	38.4	31.772	OK
S1.006	FEH: 100 years: +50 %: 30 mins: Winter	10.23 7	9.390	9.942	0.552	39.1	0.976	0.000	38.2	43.603	Flood Risk
S1.008	FEH: 100 years: +50 %: 30 mins: Winter	10.24 9	9.470	9.969	0.499	24.5	0.881	0.000	23.5	24.634	Flood Risk
S1.009	FEH: 100 years: +50 %: 30 mins: Winter	10.57 0	9.540	9.972	0.432	20.8	0.489	0.000	19.7	19.612	Surcharged
S2.008	FEH: 100 years: +50 %: 15 mins: Winter	18.16 6	16.93 8	16.978	0.040	11.9	0.006	0.000	11.8	5.605	OK
S6.001	FEH: 100 years: +50 %: 15 mins: Winter	19.33 6	18.35 0	18.392	0.042	5.0	0.007	0.000	4.9	2.297	OK
S8.003	FEH: 100 years: +50 %: 15 mins: Winter	9.860	8.870	8.933	0.063	11.0	0.010	0.000	10.9	5.104	OK
S8.001	FEH: 100 years: +50 %: 30 mins: Winter	8.387	6.020	7.078	1.058	18.8	1.870	0.000	14.0	17.371	Surcharged
S2.002	FEH: 100 years: +50 %: 30 mins: Winter	7.566	5.960	7.078	1.118	25.7	1.976	0.000	22.0	37.780	Surcharged
S2.003	FEH: 100 years: +50 %: 30 mins: Winter	8.603	6.030	7.078	1.048	16.8	1.852	0.000	11.8	18.833	Surcharged
S3.001	FEH: 100 years: +50 %: 30 mins: Winter	10.50 7	9.430	9.945	0.515	17.3	0.582	0.000	16.7	18.981	Surcharged
S3.002	FEH: 100 years: +50 %: 30 mins: Winter	10.77 0	9.490	9.998	0.508	13.2	0.081	0.000	12.4	14.475	Surcharged
S3.003	FEH: 100 years: +50 %: 30 mins: Winter	10.56 8	9.580	10.043	0.463	10.3	0.074	0.000	9.5	11.094	Surcharged
S3.004	FEH: 100 years: +50 %: 30 mins: Winter	10.35 9	9.660	10.059	0.399	7.5	0.063	0.000	5.8	6.965	Surcharged
S4.001	FEH: 100 years: +50 %: 30 mins: Winter	10.34 2	9.550	9.969	0.419	5.4	0.474	0.000	4.8	5.026	Surcharged
S2.005	FEH: 100 years: +50 %: 15 mins: Winter	11.77 9	9.000	9.037	0.037	21.5	0.006	0.000	21.5	10.190	OK
S2.006	FEH: 100 years: +50 %: 15 mins: Winter	15.44 3	13.50 0	13.552	0.052	18.3	0.008	0.000	18.2	8.635	OK
S5.001	FEH: 100 years: +50 %: 30 mins: Winter	13.63 4	9.890	9.997	0.107	14.0	0.017	0.000	13.6	12.926	OK

Project: 21185 Carn Thomas Isles of Scilly				Date: 18/03/2024			 CONSULTING consulting structural & civil engineers		
Report Details: Type: Junctions Summary Storm Phase: Phase				Designed by: MFS	Checked by:	Approved By:			
				Designer: MBA Consulting					


S5.002	FEH: 100 years: +50 %: 15 mins: Winter	13.48 0	10.92 0	10.992	0.072	15.0	0.011	0.000	14.9	7.047	OK
S5.003	FEH: 100 years: +50 %: 15 mins: Winter	13.13 4	11.51 0	11.575	0.065	9.9	0.010	0.000	9.7	4.602	OK
S5.004	FEH: 100 years: +50 %: 15 mins: Winter	13.08 5	12.06 0	12.100	0.040	4.7	0.006	0.000	4.6	2.152	OK
S1.010	FEH: 100 years: +50 %: 15 mins: Winter	16.26 5	14.72 0	14.747	0.027	10.4	0.004	0.000	10.4	4.878	OK
S1.011	FEH: 100 years: +50 %: 15 mins: Winter	16.82 0	14.86 0	14.933	0.073	4.9	0.012	0.000	4.7	2.254	OK
S2.009	FEH: 100 years: +50 %: 15 mins: Winter	18.14 7	17.14 7	17.203	0.056	4.8	0.009	0.000	4.7	2.209	OK
S1.001	FEH: 100 years: +50 %: 30 mins: Winter	3.800	2.000	3.492	1.492	107.9	0.237	0.000	106.2	148.414	Surcharged
S1.005	FEH: 100 years: +50 %: 30 mins: Winter	6.920	5.570	6.877	1.307	48.1	0.208	0.000	47.7	81.332	Flood Risk
S1.007	FEH: 100 years: +50 %: 30 mins: Winter	10.24 6	9.450	9.965	0.515	23.5	0.910	0.000	22.5	24.631	Flood Risk
S8.002	FEH: 100 years: +50 %: 15 mins: Winter	9.800	8.400	8.461	0.061	22.5	0.010	0.000	22.4	10.445	OK
S2.001	FEH: 100 years: +50 %: 30 mins: Winter	7.344	5.950	7.059	1.109	22.0	0.176	0.000	23.0	37.779	Flood Risk
S2.004	FEH: 100 years: +50 %: 30 mins: Winter	10.00 0	6.100	7.078	0.978	18.7	1.728	0.000	15.1	17.247	Surcharged
S3.005	FEH: 100 years: +50 %: 30 mins: Winter	10.23 0	9.750	10.064	0.314	3.9	0.050	0.000	3.9	3.612	Flood Risk
S1.002	FEH: 100 years: +50 %: 15 mins: Winter	4.000	2.440	3.824	1.384	49.1	1.566	0.000	52.9	55.806	Flood Risk
G3	FEH: 100 years: +50 %: 15 mins: Winter	4.000	3.325	3.841	0.516	70.2	0.082	0.000	56.6	32.665	Flood Risk
Outfall	FEH: 100 years: +50 %: 30 mins: Winter	1.000	0.100	0.208	0.108	106.2	0.000	0.000	106.3	148.414	OK
G2	FEH: 100 years: +50 %: 15 mins: Winter	6.480	5.805	5.873	0.068	19.6	0.011	0.000	19.5	9.061	OK
G1	FEH: 100 years: +50 %: 15 mins: Winter	5.870	5.195	5.283	0.088	39.2	0.014	0.000	38.8	18.111	OK
S2.007	FEH: 100 years: +50 %: 15 mins: Winter	15.41 7	14.43 0	14.488	0.058	11.8	0.009	0.000	11.7	5.604	OK
G4	FEH: 100 years: +50 %: 30 mins: Winter	4.000	3.325	3.558	0.233	24.2	0.037	0.000	24.1	22.285	Surcharged

Project: 21185 Carn Thomas Isles of Scilly	Date: 18/03/2024		
	Designed by: MFS	Checked by:	Approved By:
Report Details: Type: Junctions Summary Storm Phase: Phase	Designer: MBA Consulting		




FEH: 30 years: Increase Rainfall (%): +50: 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
S1.003	FEH: 30 years: +50 %: 30 mins: Winter	4.000	2.500	3.173	0.673	44.8	0.761	0.000	48.6	59.377	Surcharged
S1.004	FEH: 30 years: +50 %: 15 mins: Winter	6.280	4.930	5.497	0.567	43.4	0.090	0.000	44.5	43.726	Surcharged
SWMH 3	FEH: 30 years: +50 %: 15 mins: Winter	10.050	9.360	9.435	0.075	29.1	0.085	0.000	29.2	23.462	OK
S1.006	FEH: 30 years: +50 %: 15 mins: Winter	10.237	9.390	9.739	0.349	28.8	0.617	0.000	29.1	23.489	Surcharged
S1.008	FEH: 30 years: +50 %: 15 mins: Winter	10.249	9.470	9.751	0.281	22.1	0.497	0.000	17.4	13.284	OK
S1.009	FEH: 30 years: +50 %: 15 mins: Winter	10.570	9.540	9.752	0.212	22.3	0.240	0.000	19.1	10.585	OK
S2.008	FEH: 30 years: +50 %: 15 mins: Winter	18.166	16.938	16.972	0.034	8.8	0.005	0.000	8.7	4.150	OK
S6.001	FEH: 30 years: +50 %: 15 mins: Winter	19.336	18.350	18.386	0.036	3.7	0.006	0.000	3.6	1.696	OK
S8.003	FEH: 30 years: +50 %: 15 mins: Winter	9.860	8.870	8.921	0.051	8.1	0.008	0.000	8.0	3.769	OK
S8.001	FEH: 30 years: +50 %: 15 mins: Winter	8.387	6.020	6.390	0.370	20.1	0.654	0.000	14.8	9.364	OK
S2.002	FEH: 30 years: +50 %: 15 mins: Winter	7.566	5.960	6.390	0.430	27.8	0.760	0.000	19.8	20.324	Surcharged
S2.003	FEH: 30 years: +50 %: 15 mins: Winter	8.603	6.030	6.390	0.360	18.2	0.636	0.000	11.1	10.150	OK
S3.001	FEH: 30 years: +50 %: 15 mins: Winter	10.507	9.430	9.740	0.310	16.4	0.351	0.000	14.2	10.242	Surcharged
S3.002	FEH: 30 years: +50 %: 15 mins: Winter	10.770	9.490	9.770	0.280	12.8	0.044	0.000	11.2	7.810	Surcharged
S3.003	FEH: 30 years: +50 %: 15 mins: Winter	10.568	9.580	9.795	0.215	10.6	0.034	0.000	8.9	5.986	Surcharged
S3.004	FEH: 30 years: +50 %: 15 mins: Winter	10.359	9.660	9.803	0.143	8.1	0.023	0.000	5.7	3.755	OK
S4.001	FEH: 30 years: +50 %: 15 mins: Winter	10.342	9.550	9.752	0.202	5.9	0.228	0.000	3.3	2.711	OK
S2.005	FEH: 30 years: +50 %: 15 mins: Winter	11.779	9.000	9.032	0.032	15.9	0.005	0.000	15.8	7.535	OK
S2.006	FEH: 30 years: +50 %: 15 mins: Winter	15.443	13.500	13.543	0.043	13.5	0.007	0.000	13.4	6.388	OK
S5.001	FEH: 30 years: +50 %: 15 mins: Winter	13.634	9.890	9.949	0.059	14.8	0.009	0.000	14.6	6.976	OK
S5.002	FEH: 30 years: +50 %: 15 mins: Winter	13.480	10.920	10.977	0.057	11.1	0.009	0.000	11.0	5.211	OK
S5.003	FEH: 30 years: +50 %: 15 mins: Winter	13.134	11.510	11.564	0.054	7.3	0.009	0.000	7.2	3.401	OK
S5.004	FEH: 30 years: +50 %: 15 mins: Winter	13.085	12.060	12.094	0.034	3.4	0.005	0.000	3.4	1.591	OK
S1.010	FEH: 30 years: +50 %: 15 mins: Summer	16.265	14.720	14.744	0.024	7.3	0.004	0.000	7.3	3.220	OK
S1.011	FEH: 30 years: +50 %: 15 mins: Winter	16.820	14.860	14.920	0.060	3.6	0.010	0.000	3.5	1.665	OK
S2.009	FEH: 30 years: +50 %: 15 mins: Winter	18.147	17.147	17.194	0.047	3.5	0.007	0.000	3.5	1.636	OK
S1.001	FEH: 30 years: +50 %: 15 mins: Winter	3.800	2.000	3.007	1.007	102.2	0.160	0.000	94.3	79.854	Surcharged
S1.005	FEH: 30 years: +50 %: 15 mins: Winter	6.920	5.570	6.158	0.588	44.0	0.093	0.000	43.4	43.753	Surcharged
S1.007	FEH: 30 years: +50 %: 15 mins: Winter	10.246	9.450	9.750	0.300	17.4	0.530	0.000	15.9	13.274	Surcharged

Project: 21185 Carn Thomas Isles of Scilly		Date: 18/03/2024			 MBA CONSULTING consulting structural & civil engineers	
Report Details: Type: Junctions Summary Storm Phase: Phase		Designed by: MFS	Checked by:	Approved By:		
		Designer: MBA Consulting				


S8.002	FEH: 30 years: +50 %: 15 mins: Winter	9.800	8.400	8.452	0.052	16.6	0.008	0.000	16.5	7.711	OK
S2.001	FEH: 30 years: +50 %: 15 mins: Winter	7.344	5.950	6.370	0.420	19.8	0.067	0.000	20.5	20.316	Surcharged
S2.004	FEH: 30 years: +50 %: 15 mins: Winter	10.000	6.100	6.390	0.290	19.6	0.512	0.000	16.3	9.311	OK
S3.005	FEH: 30 years: +50 %: 15 mins: Winter	10.230	9.750	9.808	0.058	4.2	0.009	0.000	4.1	1.947	OK
S1.002	FEH: 30 years: +50 %: 30 mins: Winter	4.000	2.440	3.119	0.679	48.6	0.768	0.000	54.2	59.375	Surcharged
G3	FEH: 30 years: +50 %: 30 mins: Winter	4.000	3.325	3.382	0.057	35.4	0.009	0.000	35.4	32.685	OK
Outfall	FEH: 30 years: +50 %: 15 mins: Winter	1.000	0.100	0.199	0.099	94.3	0.000	0.000	94.4	79.854	OK
G2	FEH: 30 years: +50 %: 15 mins: Winter	6.480	5.805	5.860	0.055	14.5	0.009	0.000	14.4	6.695	OK
G1	FEH: 30 years: +50 %: 15 mins: Winter	5.870	5.195	5.276	0.081	28.9	0.013	0.000	28.4	13.426	OK
S2.007	FEH: 30 years: +50 %: 15 mins: Winter	15.417	14.430	14.478	0.048	8.7	0.008	0.000	8.6	4.149	OK
G4	FEH: 30 years: +50 %: 15 mins: Winter	4.000	3.325	3.363	0.038	26.0	0.006	0.000	25.9	12.028	OK

Project: 21185 Carn Thomas Isles of Scilly	Date: 18/03/2024	Designed by: MFS	Checked by:	Approved By:	 MBA CONSULTING consultingstructural & civilengineers
Report Details: Type: Junctions Summary Storm Phase: Phase	Designer: MBA Consulting				




FEH: 10 years: Increase Rainfall (%): +50: 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
S1.003	FEH: 10 years: +50 %: 15 mins: Winter	4.000	2.500	2.663	0.163	42.9	0.185	0.000	44.2	32.525	OK
S1.004	FEH: 10 years: +50 %: 30 mins: Winter	6.280	4.930	5.048	0.118	43.0	0.019	0.000	43.0	43.770	OK
SWMH 3	FEH: 10 years: +50 %: 15 mins: Winter	10.050	9.360	9.432	0.072	27.4	0.081	0.000	27.0	17.445	OK
S1.006	FEH: 10 years: +50 %: 15 mins: Winter	10.237	9.390	9.617	0.227	29.3	0.402	0.000	27.4	17.462	Surcharged
S1.008	FEH: 10 years: +50 %: 15 mins: Winter	10.249	9.470	9.629	0.159	19.6	0.281	0.000	17.6	9.879	OK
S1.009	FEH: 10 years: +50 %: 15 mins: Winter	10.570	9.540	9.632	0.092	16.6	0.104	0.000	16.2	7.876	OK
S2.008	FEH: 10 years: +50 %: 15 mins: Winter	18.166	16.938	16.967	0.029	6.6	0.005	0.000	6.5	3.087	OK
S6.001	FEH: 10 years: +50 %: 15 mins: Winter	19.336	18.350	18.380	0.030	2.7	0.005	0.000	2.7	1.267	OK
S8.003	FEH: 10 years: +50 %: 15 mins: Winter	9.860	8.870	8.913	0.043	6.1	0.007	0.000	6.0	2.802	OK
S8.001	FEH: 10 years: +50 %: 15 mins: Winter	8.387	6.020	6.199	0.179	14.9	0.316	0.000	11.4	6.969	OK
S2.002	FEH: 10 years: +50 %: 15 mins: Winter	7.566	5.960	6.198	0.238	24.4	0.421	0.000	18.9	15.126	Surcharged
S2.003	FEH: 10 years: +50 %: 15 mins: Winter	8.603	6.030	6.199	0.169	15.9	0.299	0.000	11.6	7.552	OK
S3.001	FEH: 10 years: +50 %: 15 mins: Winter	10.507	9.430	9.620	0.190	14.6	0.215	0.000	13.3	7.619	OK
S3.002	FEH: 10 years: +50 %: 15 mins: Winter	10.770	9.490	9.639	0.149	12.0	0.024	0.000	10.7	5.807	OK
S3.003	FEH: 10 years: +50 %: 15 mins: Winter	10.568	9.580	9.669	0.089	9.4	0.014	0.000	9.0	4.453	OK
S3.004	FEH: 10 years: +50 %: 15 mins: Winter	10.359	9.660	9.727	0.067	6.0	0.011	0.000	5.8	2.795	OK
S4.001	FEH: 10 years: +50 %: 15 mins: Winter	10.342	9.550	9.629	0.079	4.4	0.090	0.000	3.4	2.013	OK
S2.005	FEH: 10 years: +50 %: 15 mins: Winter	11.779	9.000	9.027	0.027	11.8	0.004	0.000	11.8	5.608	OK
S2.006	FEH: 10 years: +50 %: 15 mins: Winter	15.443	13.500	13.537	0.037	10.0	0.006	0.000	10.0	4.751	OK
S5.001	FEH: 10 years: +50 %: 15 mins: Winter	13.634	9.890	9.938	0.048	11.0	0.008	0.000	10.9	5.193	OK
S5.002	FEH: 10 years: +50 %: 15 mins: Winter	13.480	10.920	10.967	0.047	8.3	0.008	0.000	8.2	3.878	OK
S5.003	FEH: 10 years: +50 %: 15 mins: Winter	13.134	11.510	11.555	0.045	5.4	0.007	0.000	5.4	2.531	OK
S5.004	FEH: 10 years: +50 %: 15 mins: Winter	13.085	12.060	12.089	0.029	2.6	0.005	0.000	2.5	1.183	OK
S1.010	FEH: 10 years: +50 %: 15 mins: Winter	16.265	14.720	14.741	0.021	5.7	0.003	0.000	5.7	2.684	OK
S1.011	FEH: 10 years: +50 %: 15 mins: Winter	16.820	14.860	14.910	0.050	2.7	0.008	0.000	2.6	1.233	OK
S2.009	FEH: 10 years: +50 %: 15 mins: Winter	18.147	17.147	17.187	0.040	2.6	0.006	0.000	2.6	1.216	OK
S1.001	FEH: 10 years: +50 %: 15 mins: Winter	3.800	2.000	2.390	0.390	98.7	0.062	0.000	80.3	59.527	Surcharged
S1.005	FEH: 10 years: +50 %: 15 mins: Winter Summer	6.920	5.570	5.782	0.212	43.2	0.034	0.000	42.3	29.061	Surcharged
S1.007	FEH: 10 years: +50 %: 15 mins: Winter	10.246	9.450	9.626	0.176	17.6	0.312	0.000	16.0	9.869	OK

Project: 21185 Carn Thomas Isles of Scilly		Date: 18/03/2024			 MBA CONSULTING consulting structural & civil engineers		
Report Details: Type: Junctions Summary Storm Phase: Phase		Designed by: MFS	Checked by:	Approved By:			
		Designer: MBA Consulting					


S8.002	FEH: 10 years: +50 %: 15 mins: Winter	9.800	8.400	8.445	0.045	12.4	0.007	0.000	12.3	5.750	OK
S2.001	FEH: 10 years: +50 %: 15 mins: Winter	7.344	5.950	6.160	0.210	18.9	0.033	0.000	18.5	15.121	Surcharged
S2.004	FEH: 10 years: +50 %: 15 mins: Winter	10.000	6.100	6.200	0.100	14.6	0.176	0.000	14.5	6.924	OK
S3.005	FEH: 10 years: +50 %: 15 mins: Winter	10.230	9.750	9.796	0.046	3.1	0.007	0.000	3.1	1.449	OK
S1.002	FEH: 10 years: +50 %: 15 mins: Winter	4.000	2.440	2.561	0.121	44.2	0.137	0.000	45.4	32.513	OK
G3	FEH: 10 years: +50 %: 15 mins: Summer	4.000	3.325	3.383	0.058	36.6	0.009	0.000	36.3	16.041	OK
Outfall	FEH: 10 years: +50 %: 15 mins: Summer	1.000	0.100	0.197	0.097	91.6	0.000	0.000	91.7	53.077	OK
G2	FEH: 10 years: +50 %: 15 mins: Winter	6.480	5.805	5.852	0.047	10.8	0.007	0.000	10.7	4.984	OK
G1	FEH: 10 years: +50 %: 15 mins: Winter	5.870	5.195	5.263	0.068	21.6	0.011	0.000	20.4	9.995	OK
S2.007	FEH: 10 years: +50 %: 15 mins: Winter	15.417	14.430	14.471	0.041	6.5	0.006	0.000	6.4	3.086	OK
G4	FEH: 10 years: +50 %: 15 mins: Summer	4.000	3.325	3.361	0.036	18.5	0.006	0.000	18.4	7.991	OK

Project: 21185 Carn Thomas Isles of Scilly	Date: 18/03/2024	Designed by: MFS	Checked by:	Approved By:	 MBA CONSULTING consultingstructural & civilengineers
Report Details: Type: Junctions Summary Storm Phase: Phase	Designer: MBA Consulting				



FEH: 10 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
S1.003	FEH: 10 years: +0 %: 15 mins: Winter	4.000	2.500	2.640	0.140	36.0	0.158	0.000	34.9	21.612	OK
S1.004	FEH: 10 years: +0 %: 15 mins: Winter	6.280	4.930	5.032	0.102	36.8	0.016	0.000	36.0	21.647	OK
SWMH 3	FEH: 10 years: +0 %: 15 mins: Winter	10.050	9.360	9.421	0.061	20.7	0.069	0.000	20.4	11.597	OK
S1.006	FEH: 10 years: +0 %: 15 mins: Winter	10.237	9.390	9.529	0.139	21.8	0.245	0.000	20.7	11.607	OK
S1.008	FEH: 10 years: +0 %: 15 mins: Winter	10.249	9.470	9.564	0.094	13.6	0.166	0.000	13.0	6.570	OK
S1.009	FEH: 10 years: +0 %: 15 mins: Winter	10.570	9.540	9.608	0.068	11.1	0.077	0.000	10.8	5.239	OK
S2.008	FEH: 10 years: +0 %: 15 mins: Winter	18.166	16.938	16.961	0.023	4.4	0.004	0.000	4.3	2.055	OK
S6.001	FEH: 10 years: +0 %: 15 mins: Winter	19.336	18.350	18.375	0.025	1.8	0.004	0.000	1.8	0.841	OK
S8.003	FEH: 10 years: +0 %: 15 mins: Winter	9.860	8.870	8.904	0.034	4.0	0.005	0.000	4.0	1.872	OK
S8.001	FEH: 10 years: +0 %: 15 mins: Winter	8.387	6.020	6.093	0.073	9.9	0.129	0.000	8.9	4.647	OK
S2.002	FEH: 10 years: +0 %: 15 mins: Winter	7.566	5.960	6.085	0.125	18.8	0.221	0.000	17.6	10.070	OK
S2.003	FEH: 10 years: +0 %: 15 mins: Winter	8.603	6.030	6.095	0.065	10.3	0.115	0.000	9.0	5.024	OK
S3.001	FEH: 10 years: +0 %: 15 mins: Winter	10.507	9.430	9.534	0.104	10.3	0.117	0.000	9.5	5.074	OK
S3.002	FEH: 10 years: +0 %: 15 mins: Winter	10.770	9.490	9.576	0.086	8.0	0.014	0.000	7.7	3.869	OK
S3.003	FEH: 10 years: +0 %: 15 mins: Winter	10.568	9.580	9.651	0.071	6.3	0.011	0.000	6.0	2.964	OK
S3.004	FEH: 10 years: +0 %: 15 mins: Winter	10.359	9.660	9.713	0.053	4.0	0.008	0.000	3.8	1.856	OK
S4.001	FEH: 10 years: +0 %: 15 mins: Winter	10.342	9.550	9.581	0.031	2.9	0.035	0.000	2.8	1.340	OK
S2.005	FEH: 10 years: +0 %: 15 mins: Winter	11.779	9.000	9.022	0.022	7.9	0.004	0.000	7.8	3.733	OK
S2.006	FEH: 10 years: +0 %: 15 mins: Winter	15.443	13.500	13.529	0.029	6.7	0.005	0.000	6.6	3.164	OK
S5.001	FEH: 10 years: +0 %: 15 mins: Winter	13.634	9.890	9.928	0.038	7.3	0.006	0.000	7.3	3.450	OK
S5.002	FEH: 10 years: +0 %: 15 mins: Winter	13.480	10.920	10.957	0.037	5.5	0.006	0.000	5.4	2.576	OK
S5.003	FEH: 10 years: +0 %: 15 mins: Winter	13.134	11.510	11.546	0.036	3.6	0.006	0.000	3.6	1.682	OK
S5.004	FEH: 10 years: +0 %: 15 mins: Winter	13.085	12.060	12.084	0.024	1.7	0.004	0.000	1.7	0.787	OK
S1.010	FEH: 10 years: +0 %: 15 mins: Winter	16.265	14.720	14.737	0.017	3.8	0.003	0.000	3.8	1.793	OK
S1.011	FEH: 10 years: +0 %: 15 mins: Winter	16.820	14.860	14.901	0.041	1.8	0.006	0.000	1.7	0.825	OK
S2.009	FEH: 10 years: +0 %: 15 mins: Winter	18.147	17.147	17.179	0.032	1.8	0.005	0.000	1.7	0.808	OK
S1.001	FEH: 10 years: +0 %: 15 mins: Winter	3.800	2.000	2.106	0.106	72.7	0.017	0.000	72.4	39.531	OK
S1.005	FEH: 10 years: +0 %: 15 mins: Winter	6.920	5.570	5.686	0.116	37.6	0.018	0.000	36.8	21.653	OK
S1.007	FEH: 10 years: +0 %: 15 mins: Winter	10.246	9.450	9.545	0.095	13.0	0.168	0.000	12.3	6.559	OK
S8.002	FEH: 10 years: +0 %: 15 mins: Winter	9.800	8.400	8.436	0.036	8.2	0.006	0.000	8.2	3.838	OK

Project: 21185 Carn Thomas Isles of Scilly		Date: 18/03/2024			 CONSULTING consulting structural & civil engineers	
Report Details: Type: Junctions Summary Storm Phase: Phase		Designed by: MFS	Checked by:	Approved By:		
		Designer: MBA Consulting				


S2.001	FEH: 10 years: +0 %: 15 mins: Winter	7.344	5.950	6.039	0.089	17.6	0.014	0.000	17.2	10.064	OK
S2.004	FEH: 10 years: +0 %: 15 mins: Winter	10.00 0	6.100	6.156	0.056	9.7	0.100	0.000	9.4	4.605	OK
S3.005	FEH: 10 years: +0 %: 15 mins: Winter	10.23 0	9.750	9.788	0.038	2.1	0.006	0.000	2.0	0.963	OK
S1.002	FEH: 10 years: +0 %: 15 mins: Winter	4.000	2.440	2.536	0.096	34.9	0.108	0.000	34.4	21.599	OK
G3	FEH: 10 years: +0 %: 15 mins: Winter	4.000	3.325	3.371	0.046	25.6	0.007	0.000	25.4	11.978	OK
Outfall	FEH: 10 years: +0 %: 15 mins: Winter	1.000	0.100	0.183	0.083	72.4	0.000	0.000	72.5	39.531	OK
G2	FEH: 10 years: +0 %: 15 mins: Winter	6.480	5.805	5.843	0.038	7.2	0.006	0.000	7.1	3.322	OK
G1	FEH: 10 years: +0 %: 15 mins: Winter	5.870	5.195	5.250	0.055	14.4	0.009	0.000	14.1	6.661	OK
S2.007	FEH: 10 years: +0 %: 15 mins: Winter	15.41 7	14.43 0	14.462	0.032	4.3	0.005	0.000	4.3	2.054	OK
G4	FEH: 10 years: +0 %: 15 mins: Winter	4.000	3.325	3.354	0.029	12.9	0.005	0.000	12.9	5.968	OK

Project: 21185 Carn Thomas Isles of Scilly		Date: 18/03/2024			MBA CONSULTING consulting structural & civil engineers
Report Details: Type: Connections Summary Storm Phase: Phase		Designed by: MFS	Checked by:	Approved By:	
		Designer: MBA Consulting			




FEH: 100 years: Increase Rainfall (%): +50: 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
T1.003	FEH: 100 years: +50 %: 30 mins: Winter	Pipe	S1.004	S1.003	6.280	6.163	0.150	81.324	2.7	1.08	48.5	Flood Risk
T1.004	FEH: 100 years: +50 %: 30 mins: Winter	Pipe	S1.005	S1.004	6.920	6.877	0.150	81.332	2.7	1.02	47.7	Flood Risk
T1.005	FEH: 100 years: +50 %: 15 mins: Winter	Pipe	SWMH 3	S1.005	10.050	9.450	0.150	31.772	2.2	0.66	38.4	OK
T1.006	FEH: 100 years: +50 %: 15 mins: Winter	Pipe	S1.006	SWMH 3	10.237	9.940	0.150	31.823	2.2	2.58	38.2	Flood Risk
T1.009	FEH: 100 years: +50 %: 15 mins: Winter	Pipe	S1.009	S1.008	10.570	9.961	0.300	14.336	0.7	0.2	26.9	Surcharged
T6.001	FEH: 100 years: +50 %: 15 mins: Winter	Pipe	S6.001	S2.008	19.336	18.392	0.041	2.297	1.6	0.35	4.9	OK
T3.004	FEH: 100 years: +50 %: 60 mins: Summer	Pipe	S3.004	S3.003	10.359	9.931	0.150	8.147	0.5	0.43	6.4	Surcharged
T3.003	FEH: 100 years: +50 %: 15 mins: Winter	Pipe	S3.003	S3.002	10.568	10.041	0.150	8.104	0.6	0.67	9.7	Surcharged
T3.002	FEH: 100 years: +50 %: 15 mins: Winter	Pipe	S3.002	S3.001	10.770	9.996	0.150	10.570	0.7	0.85	12.6	Surcharged
T3.001	FEH: 100 years: +50 %: 30 mins: Winter	Pipe	S3.001	S1.006	10.507	9.945	0.300	18.981	0.4	0.17	16.7	Surcharged
T2.006	FEH: 100 years: +50 %: 15 mins: Winter	Pipe	S2.006	S2.005	15.443	13.552	0.044	8.635	5.4	0.46	18.2	OK
T5.004	FEH: 100 years: +50 %: 15 mins: Winter	Pipe	S5.004	S5.003	13.085	12.100	0.053	2.152	1.1	0.34	4.6	OK
T5.003	FEH: 100 years: +50 %: 15 mins: Winter	Pipe	S5.003	S5.002	13.134	11.575	0.069	4.602	1.7	0.72	9.7	OK
T5.002	FEH: 100 years: +50 %: 15 mins: Winter	Pipe	S5.002	S5.001	13.480	10.992	0.067	7.047	2.7	0.77	14.9	OK

Project: 21185 Carn Thomas Isles of Scilly				Date: 18/03/2024				 MBA CONSULTING consultingstructural & civilengineers							
Report Details: Type: Connections Summary Storm Phase: Phase				Designed by: MFS								Checked by:			
				Designer: MBA Consulting											

T5.001	FEH: 100 years: +50 %: 15 mins: Winter	Pipe	S5.001	S1.009	13.634	9.966	0.150	9.445	1.2	0.36	19.9	OK
T1.011	FEH: 100 years: +50 %: 15 mins: Winter	Pipe	S1.011	S1.010	16.820	14.933	0.050	2.254	1.2	0.78	4.7	OK
T2.009	FEH: 100 years: +50 %: 15 mins: Winter	Pipe	S2.009	S2.008	18.147	17.203	0.048	2.209	1.3	0.53	4.7	OK
T2.003	FEH: 100 years: +50 %: 60 mins: Winter	Pipe	S2.003	S2.002	8.603	6.620	0.600	24.688	0.3	0.02	12.1	OK
T8.001	FEH: 100 years: +50 %: 15 mins: Winter	Pipe	S8.001	S2.002	8.387	6.897	0.600	12.073	0.3	0.03	19.6	Surcharged
T1.010	FEH: 100 years: +50 %: 15 mins: Winter	Pipe	S1.010	S1.009	16.265	14.747	0.150	4.878	0.9	0.08	10.4	OK
T4.001	FEH: 100 years: +50 %: 30 mins: Winter	Pipe	S4.001	S1.008	10.342	9.969	0.300	5.026	0.2	0.04	4.8	Surcharged
T1.008	FEH: 100 years: +50 %: 15 mins: Winter	Pipe	S1.008	S1.007	10.249	9.960	0.300	17.997	0.7	0.26	26.2	Flood Risk
T8.003	FEH: 100 years: +50 %: 15 mins: Winter	Pipe	S8.003	S8.002	9.860	8.933	0.062	5.104	2.1	0.62	10.9	OK
T1.007	FEH: 100 years: +50 %: 30 mins: Winter	Pipe	S1.007	S1.006	10.246	9.965	0.225	24.631	0.6	0.5	22.5	Flood Risk
T2.002	FEH: 100 years: +50 %: 60 mins: Winter	Pipe	S2.002	S2.001	7.566	6.620	0.150	49.551	1.3	1.46	23.1	Surcharged
T2.001	FEH: 100 years: +50 %: 60 mins: Winter	Pipe	S2.001	S1.005	7.344	6.582	0.100	49.551	3.0	1.16	23.8	Surcharged
72.004	FEH: 100 years: +50 %: 15 mins: Winter	Pipe	S2.004	S2.003	10.000	6.897	0.600	12.404	0.7	0.03	18.7	Surcharged
T3.005	FEH: 100 years: +50 %: 30 mins: Winter	Pipe	S3.005	S3.004	10.230	10.064	0.150	3.612	0.4	0.26	3.9	Flood Risk
T8.002	FEH: 100 years: +50 %: 15 mins: Winter	Pipe	S8.002	S8.001	9.800	8.461	0.150	10.445	1.6	0.35	22.4	OK
T2.005	FEH: 100 years: +50 %: 15 mins: Winter	Pipe	S2.005	S2.004	11.779	9.037	0.150	10.190	1.9	0.15	21.5	OK
T1.002	FEH: 100 years: +50 %: 30 mins: Winter	Pipe	S1.003	S1.002	4.000	3.771	0.225	81.330	1.6	0.94	53.6	Flood Risk

Project: 21185 Carn Thomas Isles of Scilly				Date: 18/03/2024				 CONSULTING consulting structural & civil engineers				
Report Details: Type: Connections Summary Storm Phase: Phase				Designed by: MFS		Checked by:						
				Designer: MBA Consulting								


T1.001	FEH: 100 years: +50 %: 30 mins: Winter	Pipe	S1.002	S1.001	4.000	3.719	0.150	81.332	3.4	0.9	58.8	Flood Risk
Pipe	FEH: 100 years: +50 %: 15 mins: Winter	Pipe	G3	S1.001	4.000	3.841	0.150	32.665	3.2	0.39	56.6	Flood Risk
EXG OUTFALL	FEH: 100 years: +50 %: 30 mins: Winter	Pipe	S1.001	Outfall	3.800	3.492	0.150	148.414	6.0	0.91	106.2	Surcharged
Pipe (2)	FEH: 100 years: +50 %: 15 mins: Winter	Pipe	G2	G1	6.480	5.873	0.078	9.061	2.1	0.38	19.5	OK
Pipe (3)	FEH: 100 years: +50 %: 15 mins: Winter	Pipe	G1	G3	5.870	5.283	0.225	18.111	2.0	0.33	38.8	OK
T2.008	FEH: 100 years: +50 %: 15 mins: Winter	Pipe	S2.008	S2.007	18.166	16.978	0.049	5.605	3.1	0.34	11.8	OK
T2.007	FEH: 100 years: +50 %: 15 mins: Winter	Pipe	S2.007	S2.006	15.417	14.488	0.055	5.604	2.6	0.57	11.7	OK
Pipe (1)	FEH: 100 years: +50 %: 15 mins: Summer	Pipe	G4	S1.001	4.000	3.383	0.150	14.537	1.8	0.22	32.6	OK

Project: 21185 Carn Thomas Isles of Scilly		Date: 18/03/2024			MBA CONSULTING consulting structural & civil engineers
Report Details: Type: Connections Summary Storm Phase: Phase		Designed by: MFS	Checked by:	Approved By:	
		Designer: MBA Consulting			




FEH: 30 years: Increase Rainfall (%): +50: 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
T1.003	FEH: 30 years: +50 %: 30 mins: Winter	Pipe	S1.004	S1.003	6.280	5.304	0.150	59.381	2.5	1	44.8	Surcharged
T1.004	FEH: 30 years: +50 %: 30 mins: Summer	Pipe	S1.005	S1.004	6.920	5.824	0.150	53.028	2.7	0.94	43.9	Surcharged
T1.005	FEH: 30 years: +50 %: 15 mins: Winter	Pipe	SWMH 3	S1.005	10.050	9.435	0.150	23.462	1.7	0.5	29.2	OK
T1.006	FEH: 30 years: +50 %: 15 mins: Winter	Pipe	S1.006	SWMH 3	10.237	9.739	0.150	23.489	1.6	1.96	29.1	Surcharged
T1.009	FEH: 30 years: +50 %: 15 mins: Winter	Pipe	S1.009	S1.008	10.570	9.752	0.247	10.585	0.7	0.14	19.1	OK
T6.001	FEH: 30 years: +50 %: 15 mins: Winter	Pipe	S6.001	S2.008	19.336	18.386	0.035	1.696	1.5	0.26	3.6	OK
T3.004	FEH: 30 years: +50 %: 15 mins: Winter	Pipe	S3.004	S3.003	10.359	9.803	0.150	3.755	0.5	0.38	5.7	OK
T3.003	FEH: 30 years: +50 %: 15 mins: Winter	Pipe	S3.003	S3.002	10.568	9.795	0.150	5.986	0.6	0.62	8.9	Surcharged
T3.002	FEH: 30 years: +50 %: 15 mins: Summer	Pipe	S3.002	S3.001	10.770	9.721	0.150	6.962	0.7	0.78	11.5	Surcharged
T3.001	FEH: 30 years: +50 %: 15 mins: Summer	Pipe	S3.001	S1.006	10.507	9.699	0.288	9.133	0.4	0.15	14.7	OK
T2.006	FEH: 30 years: +50 %: 15 mins: Winter	Pipe	S2.006	S2.005	15.443	13.543	0.037	6.388	5.0	0.34	13.4	OK
T5.004	FEH: 30 years: +50 %: 15 mins: Winter	Pipe	S5.004	S5.003	13.085	12.094	0.044	1.591	1.0	0.25	3.4	OK
T5.003	FEH: 30 years: +50 %: 15 mins: Winter	Pipe	S5.003	S5.002	13.134	11.564	0.055	3.401	1.6	0.53	7.2	OK
T5.002	FEH: 30 years: +50 %: 15 mins: Winter	Pipe	S5.002	S5.001	13.480	10.977	0.058	5.211	2.3	0.57	11.0	OK

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				Designer: MBA Consulting											

T5.001	FEH: 30 years: +50 %: 15 mins: Winter	Pipe	S5.001	S1.009	13.634	9.949	0.120	6.976	1.2	0.27	14.6	OK
T1.011	FEH: 30 years: +50 %: 15 mins: Winter	Pipe	S1.011	S1.010	16.820	14.920	0.042	1.665	1.1	0.57	3.5	OK
T2.009	FEH: 30 years: +50 %: 15 mins: Winter	Pipe	S2.009	S2.008	18.147	17.194	0.040	1.636	1.2	0.39	3.5	OK
T2.003	FEH: 30 years: +50 %: 15 mins: Winter	Pipe	S2.003	S2.002	8.603	6.390	0.395	10.150	0.3	0.02	11.1	OK
T8.001	FEH: 30 years: +50 %: 15 mins: Winter	Pipe	S8.001	S2.002	8.387	6.390	0.400	9.364	0.3	0.03	14.8	OK
T1.010	FEH: 30 years: +50 %: 15 mins: Winter	Pipe	S1.010	S1.009	16.265	14.743	0.112	3.604	0.8	0.06	7.7	OK
T4.001	FEH: 30 years: +50 %: 30 mins: Winter	Pipe	S4.001	S1.008	10.342	9.739	0.229	3.667	0.2	0.03	3.3	OK
T1.008	FEH: 30 years: +50 %: 15 mins: Winter	Pipe	S1.008	S1.007	10.249	9.751	0.291	13.284	0.7	0.17	17.4	OK
T8.003	FEH: 30 years: +50 %: 15 mins: Winter	Pipe	S8.003	S8.002	9.860	8.921	0.052	3.769	2.0	0.46	8.0	OK
T1.007	FEH: 30 years: +50 %: 60 mins: Summer	Pipe	S1.007	S1.006	10.246	9.625	0.201	20.880	0.5	0.36	16.4	OK
T2.002	FEH: 30 years: +50 %: 15 mins: Winter	Pipe	S2.002	S2.001	7.566	6.390	0.150	20.324	1.2	1.26	19.8	Surcharged
T2.001	FEH: 30 years: +50 %: 15 mins: Winter	Pipe	S2.001	S1.005	7.344	6.370	0.100	20.316	2.6	1	20.5	Surcharged
72.004	FEH: 30 years: +50 %: 15 mins: Winter	Pipe	S2.004	S2.003	10.000	6.390	0.325	9.311	0.6	0.03	16.3	OK
T3.005	FEH: 30 years: +50 %: 15 mins: Winter	Pipe	S3.005	S3.004	10.230	9.808	0.101	1.947	0.4	0.28	4.1	OK
T8.002	FEH: 30 years: +50 %: 15 mins: Winter	Pipe	S8.002	S8.001	9.800	8.452	0.150	7.711	1.5	0.26	16.5	OK
T2.005	FEH: 30 years: +50 %: 15 mins: Winter	Pipe	S2.005	S2.004	11.779	9.032	0.150	7.535	1.8	0.11	15.8	OK
T1.002	FEH: 30 years: +50 %: 15 mins: Summer	Pipe	S1.003	S1.002	4.000	3.008	0.225	39.018	1.6	0.87	49.3	Surcharged

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T1.001	FEH: 30 years: +50 %: 15 mins: Summer	Pipe	S1.002	S1.001	4.000	2.971	0.150	39.009	3.4	0.83	54.5	Surcharged
Pipe	FEH: 30 years: +50 %: 15 mins: Winter	Pipe	G3	S1.001	4.000	3.381	0.150	24.131	2.9	0.35	51.3	OK
EXG OUTFALL	FEH: 30 years: +50 %: 15 mins: Winter	Pipe	S1.001	Outfall	3.800	3.007	0.150	79.854	5.6	0.81	94.3	Surcharged
Pipe (2)	FEH: 30 years: +50 %: 15 mins: Winter	Pipe	G2	G1	6.480	5.860	0.068	6.695	1.8	0.28	14.4	OK
Pipe (3)	FEH: 30 years: +50 %: 15 mins: Winter	Pipe	G1	G3	5.870	5.276	0.069	13.426	2.8	0.24	28.4	OK
T2.008	FEH: 30 years: +50 %: 15 mins: Winter	Pipe	S2.008	S2.007	18.166	16.972	0.041	4.150	2.9	0.25	8.7	OK
T2.007	FEH: 30 years: +50 %: 15 mins: Winter	Pipe	S2.007	S2.006	15.417	14.478	0.046	4.149	2.5	0.42	8.6	OK
Pipe (1)	FEH: 30 years: +50 %: 15 mins: Winter	Pipe	G4	S1.001	4.000	3.363	0.150	12.028	1.7	0.18	25.9	OK

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		Designer: MBA Consulting			




FEH: 10 years: Increase Rainfall (%): +50: 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
T1.003	FEH: 10 years: +50 %: 30 mins: Winter	Pipe	S1.004	S1.003	6.280	5.048	0.140	43.770	2.5	0.96	43.0	OK
T1.004	FEH: 10 years: +50 %: 30 mins: Winter	Pipe	S1.005	S1.004	6.920	5.711	0.130	43.768	2.7	0.92	43.0	OK
T1.005	FEH: 10 years: +50 %: 15 mins: Winter	Pipe	SWMH 3	S1.005	10.050	9.432	0.109	17.445	2.0	0.46	27.0	OK
T1.006	FEH: 10 years: +50 %: 15 mins: Winter	Pipe	S1.006	SWMH 3	10.237	9.617	0.146	17.462	1.6	1.85	27.4	Surcharged
T1.009	FEH: 10 years: +50 %: 15 mins: Winter	Pipe	S1.009	S1.008	10.570	9.632	0.125	7.876	0.7	0.12	16.2	OK
T6.001	FEH: 10 years: +50 %: 15 mins: Winter	Pipe	S6.001	S2.008	19.336	18.380	0.030	1.267	1.4	0.19	2.7	OK
T3.004	FEH: 10 years: +50 %: 15 mins: Winter	Pipe	S3.004	S3.003	10.359	9.727	0.078	2.795	0.6	0.38	5.8	OK
T3.003	FEH: 10 years: +50 %: 15 mins: Winter	Pipe	S3.003	S3.002	10.568	9.669	0.119	4.453	0.6	0.62	9.0	OK
T3.002	FEH: 10 years: +50 %: 15 mins: Winter	Pipe	S3.002	S3.001	10.770	9.639	0.150	5.807	0.7	0.72	10.7	OK
T3.001	FEH: 10 years: +50 %: 15 mins: Winter	Pipe	S3.001	S1.006	10.507	9.620	0.209	7.619	0.4	0.14	13.3	OK
T2.006	FEH: 10 years: +50 %: 15 mins: Winter	Pipe	S2.006	S2.005	15.443	13.537	0.032	4.751	4.6	0.25	10.0	OK
T5.004	FEH: 10 years: +50 %: 15 mins: Winter	Pipe	S5.004	S5.003	13.085	12.089	0.037	1.183	1.0	0.18	2.5	OK
T5.003	FEH: 10 years: +50 %: 15 mins: Winter	Pipe	S5.003	S5.002	13.134	11.555	0.046	2.531	1.5	0.39	5.4	OK
T5.002	FEH: 10 years: +50 %: 15 mins: Winter	Pipe	S5.002	S5.001	13.480	10.967	0.048	3.878	2.2	0.42	8.2	OK

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T5.001	FEH: 10 years: +50 %: 15 mins: Winter	Pipe	S5.001	S1.009	13.634	9.938	0.067	5.193	1.4	0.2	10.9	OK
T1.011	FEH: 10 years: +50 %: 15 mins: Winter	Pipe	S1.011	S1.010	16.820	14.910	0.036	1.233	1.0	0.43	2.6	OK
T2.009	FEH: 10 years: +50 %: 15 mins: Winter	Pipe	S2.009	S2.008	18.147	17.187	0.034	1.216	1.1	0.29	2.6	OK
T2.003	FEH: 10 years: +50 %: 15 mins: Winter	Pipe	S2.003	S2.002	8.603	6.199	0.204	7.552	0.3	0.02	11.6	OK
T8.001	FEH: 10 years: +50 %: 15 mins: Winter	Pipe	S8.001	S2.002	8.387	6.199	0.209	6.969	0.3	0.02	11.4	OK
T1.010	FEH: 10 years: +50 %: 15 mins: Winter	Pipe	S1.010	S1.009	16.265	14.741	0.054	2.684	1.0	0.05	5.7	OK
T4.001	FEH: 10 years: +50 %: 15 mins: Winter	Pipe	S4.001	S1.008	10.342	9.629	0.119	2.013	0.2	0.03	3.4	OK
T1.008	FEH: 10 years: +50 %: 15 mins: Winter	Pipe	S1.008	S1.007	10.249	9.629	0.168	9.879	0.6	0.18	17.6	OK
T8.003	FEH: 10 years: +50 %: 15 mins: Winter	Pipe	S8.003	S8.002	9.860	8.913	0.044	2.802	1.8	0.34	6.0	OK
T1.007	FEH: 10 years: +50 %: 15 mins: Winter	Pipe	S1.007	S1.006	10.246	9.626	0.202	9.869	0.5	0.35	16.0	OK
T2.002	FEH: 10 years: +50 %: 15 mins: Winter	Pipe	S2.002	S2.001	7.566	6.198	0.150	15.126	1.1	1.2	18.9	Surcharged
T2.001	FEH: 10 years: +50 %: 15 mins: Winter	Pipe	S2.001	S1.005	7.344	6.160	0.100	15.121	2.4	0.9	18.5	Surcharged
72.004	FEH: 10 years: +50 %: 15 mins: Winter	Pipe	S2.004	S2.003	10.000	6.200	0.134	6.924	0.6	0.03	14.5	OK
T3.005	FEH: 10 years: +50 %: 15 mins: Winter	Pipe	S3.005	S3.004	10.230	9.796	0.057	1.449	0.5	0.21	3.1	OK
T8.002	FEH: 10 years: +50 %: 15 mins: Winter	Pipe	S8.002	S8.001	9.800	8.445	0.101	5.750	1.4	0.19	12.3	OK
T2.005	FEH: 10 years: +50 %: 15 mins: Winter	Pipe	S2.005	S2.004	11.779	9.027	0.058	5.608	2.6	0.08	11.8	OK
T1.002	FEH: 10 years: +50 %: 15 mins: Winter	Pipe	S1.003	S1.002	4.000	2.663	0.142	32.525	1.9	0.78	44.2	OK

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T1.001	FEH: 10 years: +50 %: 15 mins: Winter	Pipe	S1.002	S1.001	4.000	2.561	0.150	32.513	3.3	0.69	45.4	OK
Pipe	FEH: 10 years: +50 %: 15 mins: Winter	Pipe	G3	S1.001	4.000	3.373	0.150	17.964	2.7	0.27	39.1	OK
EXG OUTFALL	FEH: 10 years: +50 %: 15 mins: Summer	Pipe	S1.001	Outfall	3.800	2.160	0.129	53.077	5.9	0.79	91.6	Surcharged
Pipe (2)	FEH: 10 years: +50 %: 15 mins: Winter	Pipe	G2	G1	6.480	5.852	0.057	4.984	1.7	0.21	10.7	OK
Pipe (3)	FEH: 10 years: +50 %: 15 mins: Winter	Pipe	G1	G3	5.870	5.263	0.058	9.995	2.5	0.17	20.4	OK
T2.008	FEH: 10 years: +50 %: 15 mins: Winter	Pipe	S2.008	S2.007	18.166	16.967	0.035	3.087	2.7	0.19	6.5	OK
T2.007	FEH: 10 years: +50 %: 15 mins: Winter	Pipe	S2.007	S2.006	15.417	14.471	0.039	3.086	2.3	0.31	6.4	OK
Pipe (1)	FEH: 10 years: +50 %: 15 mins: Winter	Pipe	G4	S1.001	4.000	3.358	0.150	8.948	1.7	0.13	19.3	OK

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		Designer: MBA Consulting			




FEH: 10 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
T1.003	FEH: 10 years: +0 %: 15 mins: Winter	Pipe	S1.004	S1.003	6.280	5.032	0.121	21.647	2.4	0.8	36.0	OK
T1.004	FEH: 10 years: +0 %: 15 mins: Winter	Pipe	S1.005	S1.004	6.920	5.686	0.109	21.653	2.7	0.79	36.8	OK
T1.005	FEH: 10 years: +0 %: 15 mins: Winter	Pipe	SWMH 3	S1.005	10.050	9.421	0.088	11.597	1.9	0.35	20.4	OK
T1.006	FEH: 10 years: +0 %: 15 mins: Winter	Pipe	S1.006	SWMH 3	10.237	9.529	0.100	11.607	1.7	1.39	20.7	OK
T1.009	FEH: 10 years: +0 %: 15 mins: Winter	Pipe	S1.009	S1.008	10.570	9.608	0.081	5.239	0.7	0.08	10.8	OK
T6.001	FEH: 10 years: +0 %: 15 mins: Winter	Pipe	S6.001	S2.008	19.336	18.375	0.024	0.841	1.2	0.13	1.8	OK
T3.004	FEH: 10 years: +0 %: 15 mins: Winter	Pipe	S3.004	S3.003	10.359	9.713	0.062	1.856	0.6	0.26	3.8	OK
T3.003	FEH: 10 years: +0 %: 15 mins: Winter	Pipe	S3.003	S3.002	10.568	9.651	0.078	2.964	0.6	0.42	6.0	OK
T3.002	FEH: 10 years: +0 %: 15 mins: Winter	Pipe	S3.002	S3.001	10.770	9.576	0.095	3.869	0.7	0.52	7.7	OK
T3.001	FEH: 10 years: +0 %: 15 mins: Winter	Pipe	S3.001	S1.006	10.507	9.534	0.121	5.074	0.4	0.1	9.5	OK
T2.006	FEH: 10 years: +0 %: 15 mins: Winter	Pipe	S2.006	S2.005	15.443	13.529	0.026	3.164	4.1	0.17	6.6	OK
T5.004	FEH: 10 years: +0 %: 15 mins: Winter	Pipe	S5.004	S5.003	13.085	12.084	0.030	0.787	0.9	0.12	1.7	OK
T5.003	FEH: 10 years: +0 %: 15 mins: Winter	Pipe	S5.003	S5.002	13.134	11.546	0.037	1.682	1.4	0.26	3.6	OK
T5.002	FEH: 10 years: +0 %: 15 mins: Winter	Pipe	S5.002	S5.001	13.480	10.957	0.038	2.576	2.0	0.28	5.4	OK

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				Designer: MBA Consulting											

T5.001	FEH: 10 years: +0 %: 15 mins: Winter	Pipe	S5.001	S1.009	13.634	9.928	0.053	3.450	1.3	0.13	7.3	OK
T1.011	FEH: 10 years: +0 %: 15 mins: Winter	Pipe	S1.011	S1.010	16.820	14.901	0.029	0.825	0.9	0.29	1.7	OK
T2.009	FEH: 10 years: +0 %: 15 mins: Winter	Pipe	S2.009	S2.008	18.147	17.179	0.028	0.808	1.0	0.19	1.7	OK
T2.003	FEH: 10 years: +0 %: 15 mins: Winter	Pipe	S2.003	S2.002	8.603	6.095	0.095	5.024	0.3	0.02	9.0	OK
T8.001	FEH: 10 years: +0 %: 15 mins: Winter	Pipe	S8.001	S2.002	8.387	6.093	0.099	4.647	0.3	0.02	8.9	OK
T1.010	FEH: 10 years: +0 %: 15 mins: Winter	Pipe	S1.010	S1.009	16.265	14.737	0.043	1.793	0.9	0.03	3.8	OK
T4.001	FEH: 10 years: +0 %: 15 mins: Winter	Pipe	S4.001	S1.008	10.342	9.581	0.063	1.340	0.3	0.02	2.8	OK
T1.008	FEH: 10 years: +0 %: 15 mins: Winter	Pipe	S1.008	S1.007	10.249	9.564	0.095	6.570	0.7	0.13	13.0	OK
T8.003	FEH: 10 years: +0 %: 15 mins: Winter	Pipe	S8.003	S8.002	9.860	8.904	0.035	1.872	1.6	0.23	4.0	OK
T1.007	FEH: 10 years: +0 %: 15 mins: Winter	Pipe	S1.007	S1.006	10.246	9.545	0.117	6.559	0.6	0.27	12.3	OK
T2.002	FEH: 10 years: +0 %: 15 mins: Winter	Pipe	S2.002	S2.001	7.566	6.085	0.107	10.070	1.3	1.12	17.6	OK
T2.001	FEH: 10 years: +0 %: 15 mins: Winter	Pipe	S2.001	S1.005	7.344	6.039	0.100	10.064	2.2	0.84	17.2	OK
72.004	FEH: 10 years: +0 %: 15 mins: Winter	Pipe	S2.004	S2.003	10.000	6.156	0.061	4.605	0.6	0.02	9.4	OK
T3.005	FEH: 10 years: +0 %: 15 mins: Winter	Pipe	S3.005	S3.004	10.230	9.788	0.045	0.963	0.5	0.14	2.0	OK
T8.002	FEH: 10 years: +0 %: 15 mins: Winter	Pipe	S8.002	S8.001	9.800	8.436	0.055	3.838	1.4	0.13	8.2	OK
T2.005	FEH: 10 years: +0 %: 15 mins: Winter	Pipe	S2.005	S2.004	11.779	9.022	0.039	3.733	2.1	0.05	7.8	OK
T1.002	FEH: 10 years: +0 %: 15 mins: Winter	Pipe	S1.003	S1.002	4.000	2.640	0.118	21.612	1.7	0.61	34.9	OK

Project: 21185 Carn Thomas Isles of Scilly				Date: 18/03/2024				 MBA CONSULTING consulting structural & civil engineers							
Report Details: Type: Connections Summary Storm Phase: Phase				Designed by: MFS								Checked by:			
				Designer: MBA Consulting											

T1.001	FEH: 10 years: +0 %: 15 mins: Winter	Pipe	S1.002	S1.001	4.000	2.536	0.101	21.599	3.1	0.52	34.4	OK
Pipe	FEH: 10 years: +0 %: 15 mins: Winter	Pipe	G3	S1.001	4.000	3.371	0.076	11.978	2.8	0.17	25.4	OK
EXG OUTFALL	FEH: 10 years: +0 %: 15 mins: Winter	Pipe	S1.001	Outfall	3.800	2.106	0.095	39.531	6.2	0.62	72.4	OK
Pipe (2)	FEH: 10 years: +0 %: 15 mins: Winter	Pipe	G2	G1	6.480	5.843	0.046	3.322	1.5	0.14	7.1	OK
Pipe (3)	FEH: 10 years: +0 %: 15 mins: Winter	Pipe	G1	G3	5.870	5.250	0.050	6.661	2.1	0.12	14.1	OK
T2.008	FEH: 10 years: +0 %: 15 mins: Winter	Pipe	S2.008	S2.007	18.166	16.961	0.028	2.055	2.4	0.12	4.3	OK
T2.007	FEH: 10 years: +0 %: 15 mins: Winter	Pipe	S2.007	S2.006	15.417	14.462	0.031	2.054	2.1	0.21	4.3	OK
Pipe (1)	FEH: 10 years: +0 %: 15 mins: Winter	Pipe	G4	S1.001	4.000	3.354	0.068	5.968	1.8	0.09	12.9	OK