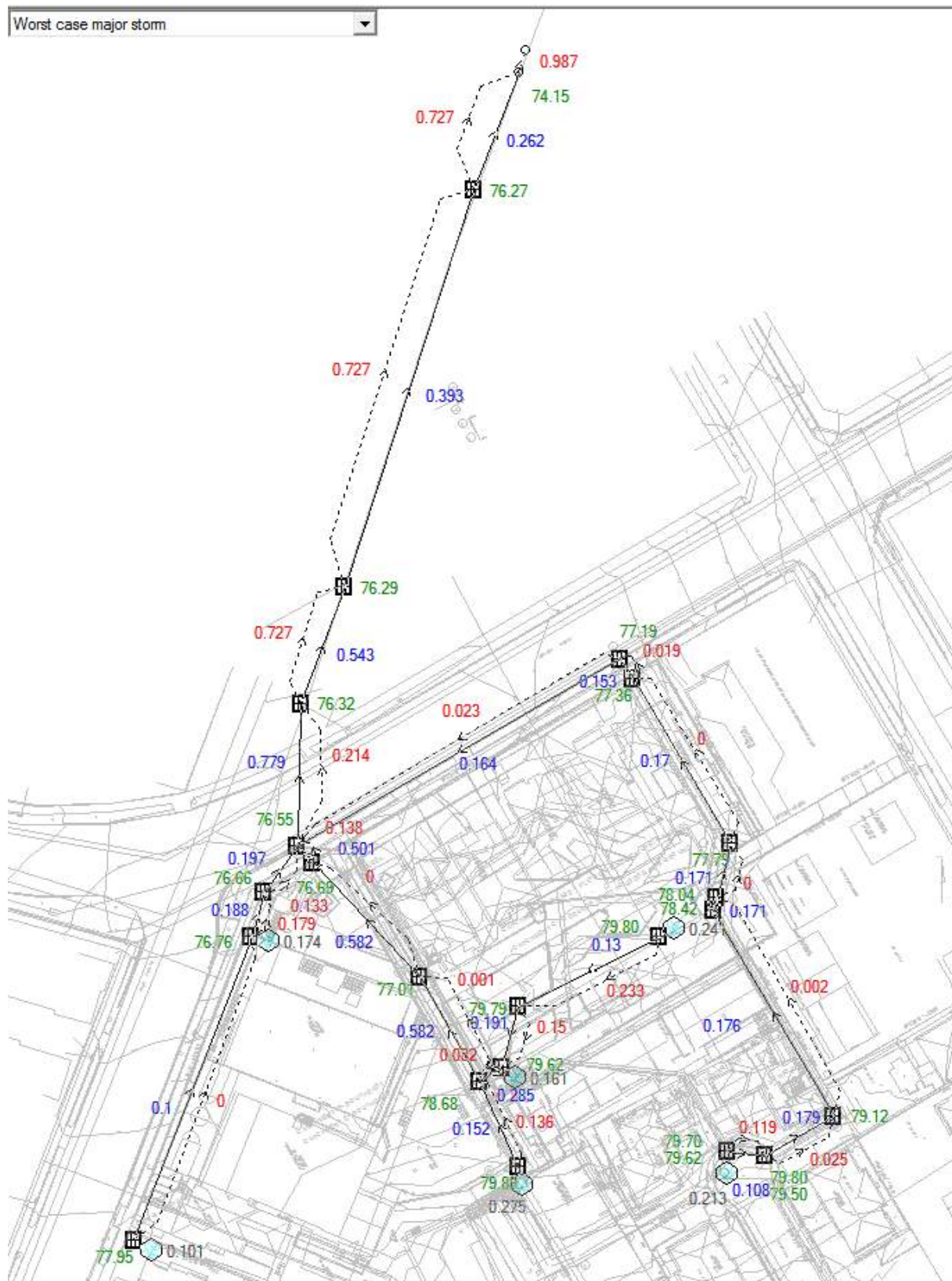
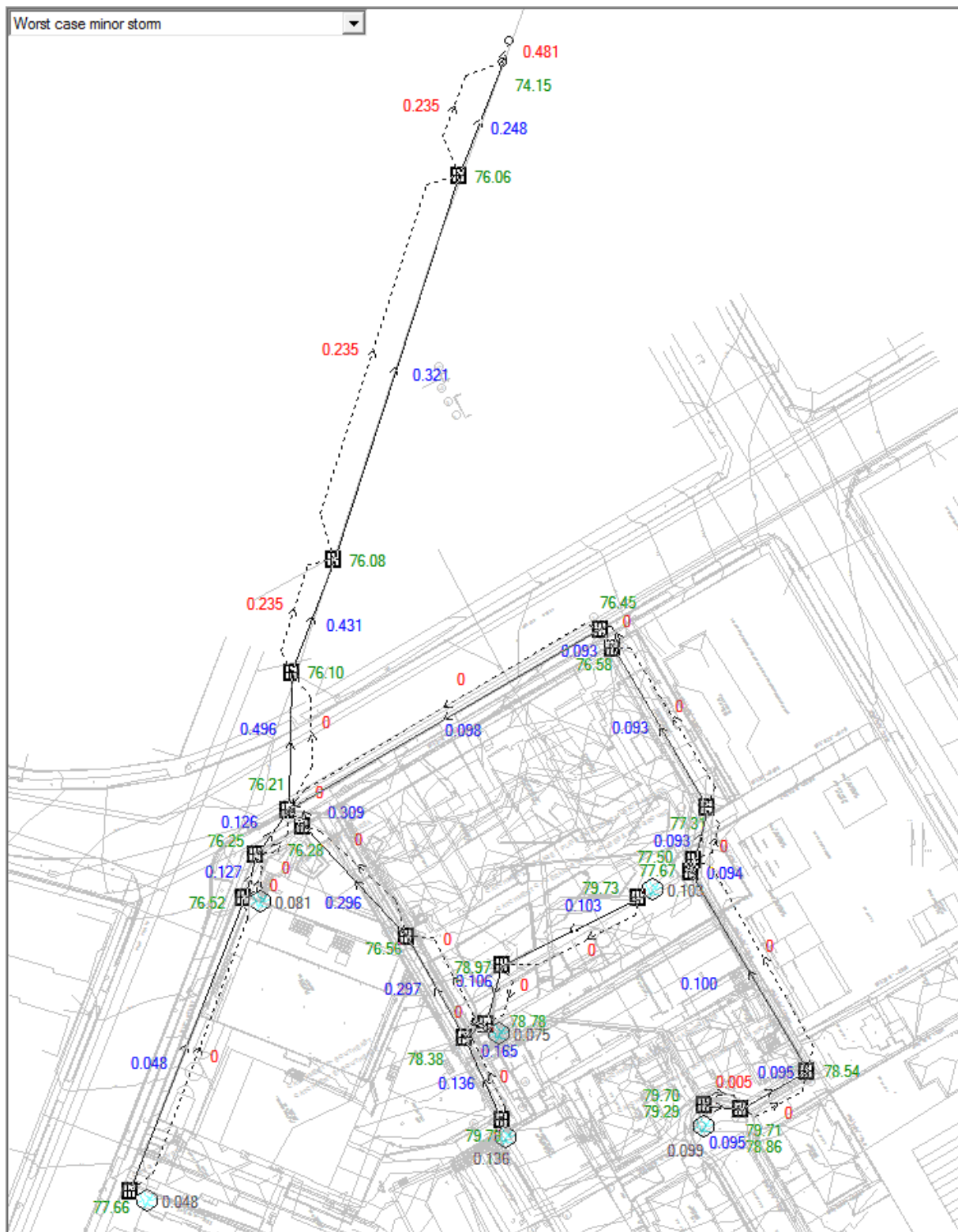




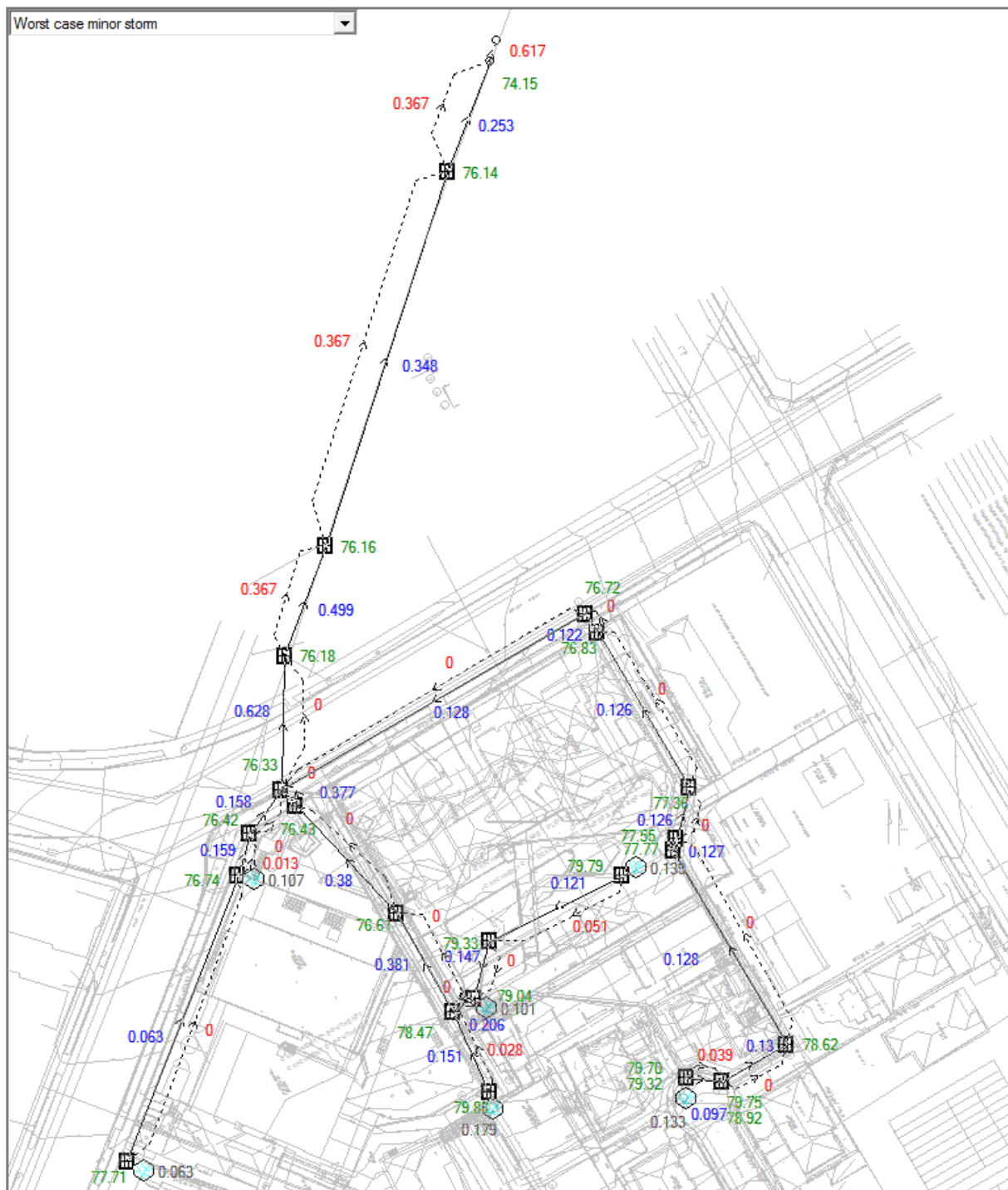
Stage 1 – 100 Year ARI Results







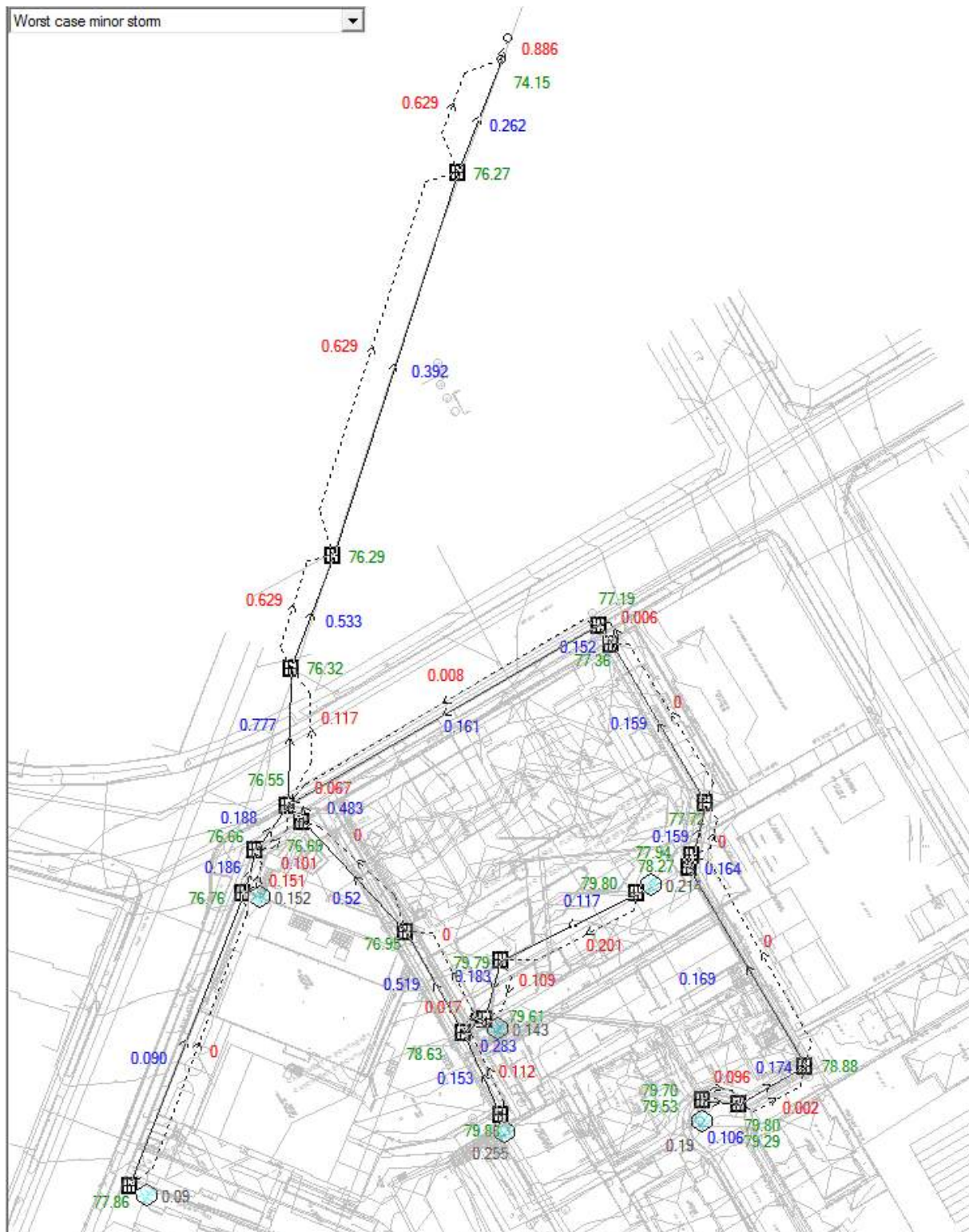
Master Plan – 2 Year ARI Results



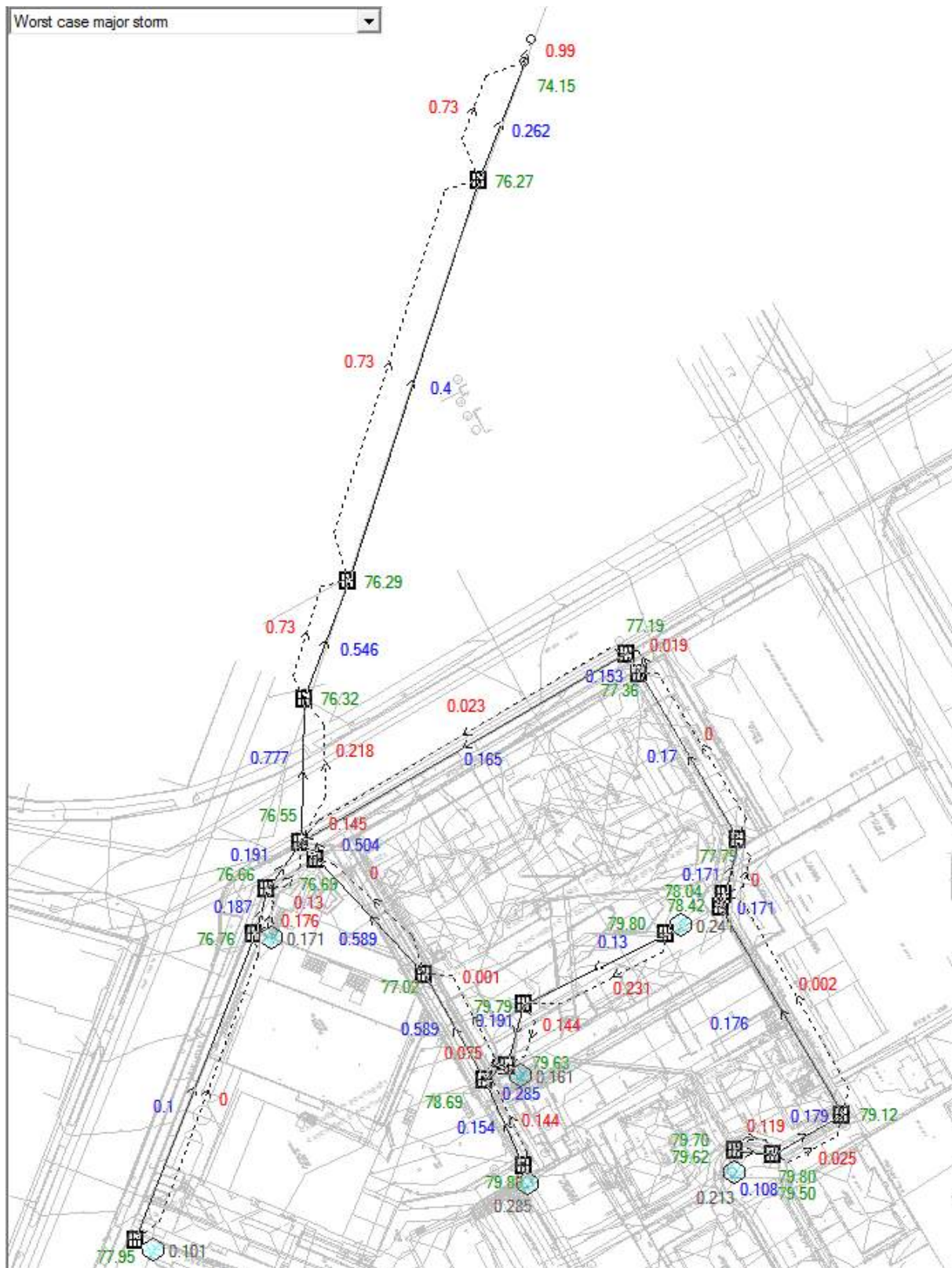
Master Plan – 5 Year ARI Results







Master Plan – 50 Year ARI Results



Master Plan – 100 Year ARI Results

PIT / NODE DETAILS

Name	Type	Family	Size	Ponding Volume (cu.m)	Pressure Change Coeff. Ku	Surface Elev (m)	Max Pond Depth (m)	Base Inflow (cu.m/s)	Blocking Factor	x	y	Bolt-down lid	Part Full Shock Loss	Inflow Hydrograph	Pit is	
PitEx10	Sag	Hornsby Council Inlets (KI+grate), 3% crossfall, all grades	Hornsby 1.8 m lintel		1	5.4	79.6	0.1	0	0.5	2335122	24666966	No	149 1 x Ku	No	New
PitEx9	OnGrade	Hornsby Council Inlets (KI+grate), 3% crossfall, all grades	Hornsby 0.9 m lintel			1.9	79.27		0	0	2335114	24666980	Yes	4493348 1 x Ku	No	New
PitEx8	OnGrade	Hornsby Council Inlets (KI+grate), 3% crossfall, all grades	Hornsby 0.9 m lintel			4.7	79.13		0	0	2335092	24666982	No	4493347 1 x Ku	No	New
PitEx7	OnGrade	Hornsby Council Inlets (KI+grate), 3% crossfall, all grades	Hornsby 0.9 m lintel			1.2	79.2		0	0	2335077	24666974	Yes	4493344 1 x Ku	No	New
PitEx6	OnGrade	Hornsby Council Inlets (KI+grate), 3% crossfall, all grades	Hornsby 0.9 m lintel			0.4	77.25		0	0	2335056	24667009	No	4493342 1 x Ku	No	New
PitEx5	OnGrade	Hornsby Council Inlets (KI+grate), 3% crossfall, all grades	Hornsby 0.9 m lintel			1.5	76.85		0	0	2335051	24667017	No	1579479 1 x Ku	No	New
PitEx4	OnGrade	Hornsby Council Inlets (KI+grate), 3% crossfall, all grades	Hornsby 1.8 m lintel			6.8	76.56		0	0	2335042	24667022	No	164 1 x Ku	No	New
PitEx3	OnGrade	Hornsby Council Inlets (KI+grate), 3% crossfall, all grades	Hornsby 1.8 m lintel			1.9	76.66		0	0	2335035	24667018	No	4493331 1 x Ku	No	New
PitEx2	OnGrade	Hornsby Council Inlets (KI+grate), 3% crossfall, all grades	Hornsby 1.8 m lintel			2.3	76.63		0	0	2335031	24667020	No	174 1 x Ku	No	Existing
Pit Ex1	OnGrade	Hornsby Council Inlets (KI+grate), 3% crossfall, all grades	Hornsby 1.8 m lintel			6.9	76.04		0	0	2335043	24667049	No	167 1 x Ku	No	Existing
PitEx0.5	OnGrade	Hornsby Council Inlets (KI+grate), 3% crossfall, all grades	Hornsby 1.8 m lintel			0.2	75.5		0	0	2335052	24667071	Yes	4861495 1 x Ku	No	New
PitEx0	OnGrade	Hornsby Council Inlets (KI+grate), 3% crossfall, all grades	Hornsby 0.9 m lintel			1	75		0	0	2335075	24667143	Yes	4861492 1 x Ku	No	New
NDS	Node						74.3		0		2335083	24667164		280	No	
N Total	Node						74.2		0		2335086	24667173		191	No	
PitD	OnGrade	Hornsby Council Inlets (KI+grate), 3% crossfall, all grades	Hornsby 4.2 m lintel			3.3	79.9		0	0	2335083	24666963	No	1235606 1 x Ku	No	New
N1	Node						78.02		0		2335068	24666997		4514875	No	

DETENTION BASIN
DETAILS

Name	Elev	Surf. Area	Not Used	Outlet Type	K	Dia(mm)	Centre RL	Pit Family	Pit Type	x	y	HED	Crest Length(m)	id
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SUB-CATCHMENT DETAILS

Name	Pit or Node	Total Area (ha)	Paved Area %	Grass Area %	Supp Area %	Paved Time (min)	Grass Time (min)	Supp Time (min)	Paved Length (m)	Grass Length (m)	Supp Length (m)	Paved Slope(%) %	Grass Slope %	Supp Slope %	Paved Rough	Grass Rough
CatA-Ex	PitEx10		0.309	83.6	16.4	0	5	10	5							
CatB-Ex	PitEx8		0.231	89.3	10.7	0	5	10	5							
CatE-Ex	PitEx6		0.3255	97.2	1.8	0	5	10	5							
CatC-Ex	PitEx4		0.3625	84.7	15.3	0	5	10	5							
CatF-Ex	PitEx3		0.0245	34.3	65.7	0	5	10	5							
CatD-Ex	PitD		0.48	88.4	11.6	0	5	10	5							

PIPE DETAILS

Name	From	To	Length (m)	U/S IL (m)	D/S IL (m)	Slope (%)	Type	Dia (mm)	I.D. (mm)	Rough	Pipe Is	No. Pipes	Chg From	At Chg
PipeEx9	PitEx10	PitEx9		16.9	78.91	78.741	1 Concrete, under roads	300	300	0.013	New	1	PitEx10	0
PipeEx8	PitEx9	PitEx8		22.2	78.741	78.519	1 Concrete, under roads	300	300	0.013	New	1	PitEx9	0
PipeEx7	PitEx8	PitEx7		17.2	78.591	78.419	1 Concrete, under roads	300	300	0.013	New	1	PitEx8	0
PipeEx6	PitEx7	PitEx6		41.8	78.419	76.54	4.5 Concrete, under roads	300	300	0.013	New	1	PitEx7	0
PipeEx5	PitEx6	PitEx5		8.6	76.54	76.19	4.07 Concrete, under roads	225	225	0.013	New	2	PitEx6	0
PipeEx4	PitEx5	PitEx4		8.6	76.19	76.05	1.63 Concrete, under roads	300	300	0.013	New	1	PitEx5	0
PipeEx3	PitEx4	PitEx3		26.3	76.05	75.58	1.79 Concrete, under roads	300	300	0.013	New	1	PitEx4	0
PipeEx2	PitEx3	PitEx2		5	75.86	75.68	3.6 Concrete, under roads	300	300	0.013	New	1	PitEx3	0
PipeEx1	PitEx2	Pit Ex1		28	75.63	75.06	2.04 Concrete, under roads	450	450	0.013	New	1	PitEx2	0
PipeEx0.5	Pit Ex1	PitEx0.5		23.7	75	74.5	2.11 Concrete, under roads	450	450	0.013	New	1	Pit Ex1	0
PipeEx0	PitEx0.5	PitEx0		61	74.5	74	0.82 Concrete, under roads	450	450	0.013	New	1	PitEx0.5	0
PipeDS	PitEx0	NDS		31	74	73.5	1.61 Concrete, under roads	375	375	0.013	New	1	PitEx0	0
PipeD	PitD	PitEx7		20	78.9	78.15	3.75 Concrete, under roads	300	300	0.013	New	1	PitD	0

DETAILS of SERVICES CROSSING PIPES

Pipe	Chg (m)	Bottom Elev (m)	Height of Service Chg (m)	Bottom Elev (m)	Height of S Chg (m)	Bottom Elev (m)	Height of S etc (m)
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CHANNEL DETAILS

Name	From	To	Type	Length (m)	U/S IL (m)	D/S IL (m)	Slope (%)	Base Width (m)	L.B. Slope (1:?)	R.B. Slope (1:?)	Manning n	Depth (m)	Roofed
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Redlands DRAINS Model Data												Existing Condition Model		
OVERFLOW ROUTE DETAILS														id
Name	From	To	Travel Time (min)	Spill Level (m)	Crest Length (m)	Weir Coeff. C	Cross Section	Safe Depth Major Stor (m)	SafeDepth Minor Stor (m)	Safe DxV (sq.m/sec)	Bed Slope (%)	D/S Area Contributing %		
OF-Ex9	PitEx10	PitEx9		1			Pathway 1.2 m wide	0.3	0.15	0.6	1.9	0	4493445	
OF-Ex8	PitEx9	N1		1			Pathway 1.2 m wide	0.3	0.15	0.6	2.5	0	4493446	
OF-Ex7	PitEx8	N1		1			Pathway 1.2 m wide	0.3	0.15	0.6	1	0	4493447	
OF-Ex6	PitEx7	N1		1			Pathway 1.2 m wide	0.3	0.15	0.6	5.7	0	4493450	
OF-Ex5	PitEx6	PitEx5		1			Pathway 1.2 m wide	0.3	0.15	0.6	4.9	0	4493451	
OF-Ex4	PitEx5	PitEx4		1			Pathway 1.2 m wide	0.3	0.15	0.6	3.1	0	4493456	
							Dummy used to model flow across road low points	0.2	0.05	0.6	2	0	4493457	
OF-Ex3	PitEx4	Pit Ex1		1			Dummy used to model flow across road low points	0.2	0.05	0.6	2	0	835254	
OF-Ex1	PitEx3	Pit Ex1		1			8 m wide road (half section)	0.3	0.15	0.4	2	0	4861500	
OF-Ex0.5	Pit Ex1	PitEx0.5		1			8 m wide road (half section)	0.3	0.15	0.4	2	0	4861501	
OF-Ex0	PitEx0.5	PitEx0		1			8 m wide road (half section)	0.3	0.15	0.4	2	0	289	
OF-DS	PitEx0	NDS		1			Dummy used to model flow across road low points	0.2	0.05	0.6	1	0	192	
OF Total	NDS	N Total		1			Dummy used to model flow across road low points	0.2	0.05	0.6	1	0	4493448	
OF-ExD	PitD	PitEx7		1			Pathway 1.2 m wide	0.3	0.15	0.6	3.4	0	4514904	
OFEx-6-Total	N1	PitEx6		1										

PIT / NODE DETAILS

Name	Type	Family	Size	Ponding Volume (cu.m)	Pressure Change Coeff. Ku	Surface Elev (m)	Max Pond Depth (m)	Base Inflow (cu.m/s)	Blocking Factor	x	y	Bolt-down lid	Part Full Shock Loss	Inflow Hydrograph	Pit is	
Pit8	Sag	Hornsby Council Inlets (KI+grate), 3% crossfall, all grades	Hornsby 1.8 m lintel		1	6.8	79.6	0.1	0	0.5	2335122	24666966	No	149 1 x Ku	No	New
Pit7	Sag	Hornsby Council Inlets (KI+grate), 3% crossfall, all grades	Hornsby 1.8 m lintel		1	1.9	79.7	0.1	0	0.5	2335129	24666965	No	150 1 x Ku	No	New
Pit6	OnGrade	Hornsby Council Inlets (KI+grate), 3% crossfall, all grades	Hornsby 0.9 m lintel			2.3	79.54		0	0	2335142	24666972	No	147 1 x Ku	No	New
BendDummy	OnGrade	Hornsby Council Inlets (KI+grate), 3% crossfall, all grades	Hornsby 0.9 m lintel			0.9	79.16		0	0	2335119	24667010	Yes	225 1 x Ku	No	New
Pit5	OnGrade	Hornsby Council Inlets (KI+grate), 3% crossfall, all grades	Hornsby 0.9 m lintel			0.2	79.06		0	0	2335120	24667013	No	152 1 x Ku	No	New
Pit4	OnGrade	Hornsby Council Inlets (KI+grate), 3% crossfall, all grades	Hornsby 0.9 m lintel			0.9	78.2		0	0	2335123	24667023	No	148 1 x Ku	No	New
Pit3	OnGrade	Hornsby Council Inlets (KI+grate), 3% crossfall, all grades	Hornsby 0.9 m lintel			0.2	77.36		0	0	2335105	24667053	No	153 1 x Ku	No	New
Pit2	OnGrade	Hornsby Council Inlets (KI+grate), 3% crossfall, all grades	Hornsby 1.8 m lintel			1.8	77.19		0	0	2335102	24667057	No	151 1 x Ku	No	New
Pit1	OnGrade	Hornsby Council Inlets (KI+grate), 3% crossfall, all grades	Hornsby 1.8 m lintel			1.4	76.56		0	0	2335042	24667022	No	164 1 x Ku	No	New
Pit Ex1	OnGrade	Hornsby Council Inlets (KI+grate), 3% crossfall, all grades	Hornsby 1.8 m lintel			1.7	76.04		0	0	2335043	24667049	No	167 1 x Ku	No	Existing
PitEx0.5	OnGrade	Hornsby Council Inlets (KI+grate), 3% crossfall, all grades	Hornsby 1.8 m lintel			0.2	75.5		0	0	2335051	24667070	Yes	7523163 1 x Ku	No	New
PitEx0	OnGrade	Hornsby Council Inlets (KI+grate), 3% crossfall, all grades	Hornsby 0.9 m lintel			5	75		0	0	2335075	24667144	Yes	7523144 1 x Ku	No	Existing
NDS	Node						74.3		0		2335083	24667165		280	No	
N Total	Node						74.2		0		2335085	24667170		191	No	
PitC2	OnGrade	Hornsby Council Inlets (KI+grate), 3% crossfall, all grades	Hornsby 4.2 m lintel			2.7	79.8		0	0	2335109	24667006	No	612261 1 x Ku	No	New
PitC1	OnGrade	Hornsby Council Inlets (KI+grate), 3% crossfall, all grades	Hornsby 4.2 m lintel			3	79.8		0	0	2335083	24666993	No	482224 1 x Ku	No	New
Pit12	OnGrade	Hornsby Council Inlets (KI+grate), 3% crossfall, all grades	Hornsby 4.2 m lintel			1.6	79.7		0	0	2335080	24666981	No	255909 1 x Ku	No	New
Pit13	OnGrade	Hornsby Council Inlets (KI+grate), 3% crossfall, all grades	Hornsby 4.2 m lintel			1.3	79.1		0	0	2335076	24666979	No	255905 1 x Ku	No	New
Pit14	OnGrade	Hornsby Council Inlets (KI+grate), 3% crossfall, all grades	Hornsby 0.9 m lintel			0.3	77.25		0	0	2335065	24666998	No	255898 1 x Ku	No	New
Pit15	OnGrade	Hornsby Council Inlets (KI+grate), 3% crossfall, all grades	Hornsby 0.9 m lintel			0.2	76.69		0	0	2335045	24667019	No	1579479 1 x Ku	No	New
PitD	OnGrade	Hornsby Council Inlets (KI+grate), 3% crossfall, all grades	Hornsby 4.2 m lintel			3	79.9		0	0	2335083	24666963	No	1235606 1 x Ku	No	New
PitF	OnGrade	Hornsby Council Inlets (KI+grate), 3% crossfall, all grades	Hornsby 4.2 m lintel			7.9	78.4		0	0	2335012	24666949	No	3172235 1 x Ku	No	New
PitE1	OnGrade	Hornsby Council Inlets (KI+grate), 3% crossfall, all grades	Hornsby 4.2 m lintel			4.8	76.76		0	0	2335034	24667005	No	8377567 1 x Ku	No	New
PitE	OnGrade	Hornsby Council Inlets (KI+grate), 3% crossfall, all grades	Hornsby 4.2 m lintel			1.5	76.66		0	0	2335036	24667014	No	255887 1 x Ku	No	New

DETENTION BASIN DETAILS

Name	Elev	Surf. Area	Not Used	Outlet Type	K	Dia(mm)	Centre RL	Pit Family	Pit Type	x	y	HED	Crest RL	Crest Length(nid
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SUB-CATCHMENT DETAILS

Name	Pit or Node	Total Area (ha)	Paved Area %	Grass Area %	Supp Area %	Paved Time (min)	Grass Time (min)	Supp Time (min)	Paved Length (m)	Grass Length (m)	Supp Length (m)	Paved Slope(%)	Grass Slope %	Supp Slope %	Paved Rough	Grass Rough
CatA	Pit8		0.309	83.6	16.4	0	5	10	5							
CatC	PitC2		0.4235	0	42.6	57.4	5	10	5							
CatB	Pit12		0.231	86.6	13.4	0	5	10	5							
CatD	PitD		0.3915	90.5	9.5	0	5	10	5							
CatF	PitF		0.138	100	0	0	5	10	5							
CatE	PitE1		0.2395	100	0	0	5	10	5							

PIPE DETAILS

Name	From	To	Length (m)	U/S IL (m)	D/S IL (m)	Slope (%)	Type	Dia (mm)	I.D. (mm)	Rough	Pipe Is	No. Pipes	Chg From	At Chg
Pipe8	Pit8	Pit7		5.4	78.724	78.67	1 Concrete, under roads	375	375	0.013	New	1	Pit8	0
Pipe7	Pit7	Pit6		13.9	78.58	78.32	1.87 Concrete, under roads	375	375	0.013	New	1	Pit7	0
Pipe6	Pit6	BendDummy		43.5	78.27	77.4	2 Concrete, under roads	375	375	0.013	New	1	Pit6	0
PipeBend	BendDummy	Pit5		2	77.35	77.31	2 Concrete, under roads	375	375	0.013	New	1	BendDumrn	0
Pipe5	Pit5	Pit4		12.1	77.26	77.13	1.07 Concrete, under roads	375	375	0.013	New	1	Pit5	0
Pipe4	Pit4	Pit3		33.984	77.08	76.41	1.97 Concrete, under roads	375	375	0.013	New	1	Pit4	0
Pipe3	Pit3	Pit2		4	76.36	76.19	4.25 Concrete, under roads	375	375	0.013	New	1	Pit3	0
Pipe2	Pit2	Pit1		68.097	76.14	75.61	0.78 Concrete, under roads	375	375	0.013	New	1	Pit2	0
Pipe1	Pit1	Pit Ex1		26.3	75.58	75.06	1.98 Concrete, under roads	825	825	0.013	New	1	Pit1	0
Pipe0.5	Pit Ex1	PitEx0.5		23.7	75	74.5	2.11 Concrete, under roads	825	825	0.013	New	1	Pit Ex1	0
PipeEx0	PitEx0.5	PitEx0		61	74.5	74	0.82 Concrete, under roads	825	825	0.013	New	1	PitEx0.5	0
PipeDS	PitEx0	NDS		31	74	73.5	1.61 Concrete, under roads	375	375	0.013	New	1	PitEx0	0
PipeC2	PitC2	PitC1		25	79.1	78.6	2 Concrete, under roads	300	300	0.013	New	1	PitC2	0
PipeC1	PitC1	Pit12		15	78.6	78.3	2 Concrete, under roads	375	375	0.013	New	1	PitC1	0
Pipe12	Pit12	Pit13		5	78.25	78.15	2 Concrete, under roads	375	375	0.013	New	1	Pit12	0
Pipe13	Pit13	Pit14		22.3	78.1	76.3	8.07 Concrete, under roads	600	600	0.013	New	1	Pit13	0
Pipe14	Pit14	Pit15		28	76.25	75.74	1.82 Concrete, under roads	600	600	0.013	New	1	Pit14	0
Pipe15	Pit15	Pit1		8	75.84	75.68	2 Concrete, under roads	600	600	0.013	New	1	Pit15	0
PipeD	PitD	Pit13		20	78.9	78.15	3.75 Concrete, under roads	300	300	0.013	New	1	PitD	0
PipeF	PitF	PitE1		56	77.4	76.12	2.29 Concrete, under roads	375	375	0.013	New	1	PitF	0
PipeE1	PitE1	PitE		10	76.1	75.9	2 Concrete, under roads	450	450	0.013	New	1	PitE1	0
PipeE	PitE	Pit1		8	75.84	75.68	2 Concrete, under roads	450	450	0.013	New	1	PitE	0

DETAILS of SERVICES CROSSING PIPES

Pipe	Chg (m)	Bottom Elev (m)	Height of Service (m)	Chg (m)	Bottom Elev (m)	Height of S Chg (m)	Bottom Elev (m)	Height of S etc (m)
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CHANNEL DETAILS

Name	From	To	Type	Length (m)	U/S IL (m)	D/S IL (m)	Slope (%)	Base Width (m)	L.B. Slope (1:?)	R.B. Slope (1:?)	Manning n	Depth (m)	Roofed
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OVERFLOW ROUTE
DETAILS

Name	From	To	Travel Time (min)	Spill Level (m)	Crest Length (m)	Weir Coeff. C	Cross Section	Safe Depth Major Storms (m)	SafeDepth Minor Storms (m)	Safe DxV (sq.m/sec)	Bed Slope (%)	D/S Area Contributi ng %	id
OF8	Pit8	Pit7		1			8 m wide road (half section)	0.3	0.15	0.4	1.9	0	309
OF7	Pit7	Pit6		1			Pathway 1.2 m wide	0.3	0.15	0.6	2	0	307
OF6	Pit6	Pit5		1			Pathway 1.2 m wide	0.3	0.15	0.6	0.8	0	305
OF5	Pit5	Pit4		1			Pathway 1.2 m wide	0.3	0.15	0.6	1.1	0	303
OF4	Pit4	Pit3		1			Pathway 1.2 m wide	0.3	0.15	0.6	2	0	301
OF3	Pit3	Pit2		1			Pathway 1.2 m wide	0.3	0.15	0.6	4.2	0	298
OF2	Pit2	Pit1		1			8 m wide road (half section)	0.3	0.15	0.4	0.8	0	296
OF1	Pit1	Pit Ex1		1			Dummy used to model flow across road low points	0.2	0.05	0.6	2	0	294
OF-Ex0.5	Pit Ex1	PitEx0.5		1			Dummy used to model flow across road low points	0.2	0.05	0.6	2	0	7523207
OF-Ex0	PitEx0.5	PitEx0		1			8 m wide road (half section)	0.3	0.15	0.4	2	0	7523198
OF-DS	PitEx0	NDS		1			8 m wide road (half section)	0.3	0.15	0.4	2	0	289
OF Total	NDS	N Total		1			Dummy used to model flow across road low points	0.2	0.05	0.6	1	0	192
OF-2	PitC2	PitC1		1			Pathway 1.2 m wide	0.3	0.15	0.6	2	0	612273
OF-C1	PitC1	Pit12		1			Pathway 1.2 m wide	0.3	0.15	0.6	2	0	528276
OF12	Pit12	Pit13		1			Pathway 1.2 m wide	0.3	0.15	0.6	2	0	301283
OF13	Pit13	Pit14		1			Pathway 1.2 m wide	0.3	0.15	0.6	8	0	301286
OF14	Pit14	Pit15		1			Pathway 1.2 m wide	0.3	0.15	0.6	1.8	0	301290
OF15	Pit15	Pit1		1			Pathway 1.2 m wide	0.3	0.15	0.6	2	0	301293
OF-D	PitD	Pit13		1			Pathway 1.2 m wide	0.3	0.15	0.6	3.8	0	1235611
OF-F	PitF	PitE1		1			Pathway 1.2 m wide	0.3	0.15	0.6	2.3	0	3172257
OF-E1	PitE1	PitE		1			Pathway 1.2 m wide	0.3	0.15	0.6	1	0	8377604
OF-E	PitE	Pit1		1			Pathway 1.2 m wide	0.3	0.15	0.6	1	0	1579521

PIT / NODE DETAILS

Name	Type	Family	Size	Ponding Volume (cu.m)	Pressure Change Coeff. Ku	Surface Elev (m)	Max Pond Depth (m)	Base Inflow (cu.m/s)	Blocking Factor	x	y	Bolt-down lid	Part Full Shock Loss	Inflow Hydrograph	Pit is	
Pit8	Sag	Hornsby Council Inlets (KI+grate), 3% crossfall, all grades	Hornsby 1.8 m lintel		1	6.8	79.6	0.1	0	0.5	2335122	24666966	No	149 1 x Ku	No	New
Pit7	Sag	Hornsby Council Inlets (KI+grate), 3% crossfall, all grades	Hornsby 1.8 m lintel		1	1.9	79.7	0.1	0	0.5	2335129	24666965	No	150 1 x Ku	No	New
Pit6	OnGrade	Hornsby Council Inlets (KI+grate), 3% crossfall, all grades	Hornsby 0.9 m lintel			2.3	79.54		0	0	2335142	24666972	No	147 1 x Ku	No	New
BendDummy	OnGrade	Hornsby Council Inlets (KI+grate), 3% crossfall, all grades	Hornsby 0.9 m lintel			0.9	79.16		0	0	2335119	24667010	Yes	225 1 x Ku	No	New
Pit5	OnGrade	Hornsby Council Inlets (KI+grate), 3% crossfall, all grades	Hornsby 0.9 m lintel			0.2	79.06		0	0	2335120	24667013	No	152 1 x Ku	No	New
Pit4	OnGrade	Hornsby Council Inlets (KI+grate), 3% crossfall, all grades	Hornsby 0.9 m lintel			0.9	78.2		0	0	2335123	24667023	No	148 1 x Ku	No	New
Pit3	OnGrade	Hornsby Council Inlets (KI+grate), 3% crossfall, all grades	Hornsby 0.9 m lintel			0.2	77.36		0	0	2335105	24667053	No	153 1 x Ku	No	New
Pit2	OnGrade	Hornsby Council Inlets (KI+grate), 3% crossfall, all grades	Hornsby 1.8 m lintel			1.8	77.19		0	0	2335102	24667057	No	151 1 x Ku	No	New
Pit1	OnGrade	Hornsby Council Inlets (KI+grate), 3% crossfall, all grades	Hornsby 1.8 m lintel			1.4	76.56		0	0	2335042	24667022	No	164 1 x Ku	No	New
Pit Ex1	OnGrade	Hornsby Council Inlets (KI+grate), 3% crossfall, all grades	Hornsby 1.8 m lintel			1.7	76.04		0	0	2335043	24667049	No	167 1 x Ku	No	Existing
PitEx0.5	OnGrade	Hornsby Council Inlets (KI+grate), 3% crossfall, all grades	Hornsby 1.8 m lintel			0.2	75.5		0	0	2335051	24667070	Yes	7523163 1 x Ku	No	New
PitEx0	OnGrade	Hornsby Council Inlets (KI+grate), 3% crossfall, all grades	Hornsby 0.9 m lintel			5	75		0	0	2335075	24667144	Yes	7523144 1 x Ku	No	Existing
NDS	Node						74.3		0		2335083	24667165		280	No	
N Total	Node						74.2		0		2335085	24667170		191	No	
PitC2	OnGrade	Hornsby Council Inlets (KI+grate), 3% crossfall, all grades	Hornsby 4.2 m lintel			2.7	79.8		0	0	2335109	24667006	No	612261 1 x Ku	No	New
PitC1	OnGrade	Hornsby Council Inlets (KI+grate), 3% crossfall, all grades	Hornsby 4.2 m lintel			3	79.8		0	0	2335083	24666993	No	482224 1 x Ku	No	New
Pit12	OnGrade	Hornsby Council Inlets (KI+grate), 3% crossfall, all grades	Hornsby 4.2 m lintel			1.6	79.7		0	0	2335080	24666981	No	255909 1 x Ku	No	New
Pit13	OnGrade	Hornsby Council Inlets (KI+grate), 3% crossfall, all grades	Hornsby 4.2 m lintel			1.4	79.1		0	0	2335076	24666979	No	255905 1 x Ku	No	New
Pit14	OnGrade	Hornsby Council Inlets (KI+grate), 3% crossfall, all grades	Hornsby 0.9 m lintel			0.3	77.25		0	0	2335065	24666998	No	255898 1 x Ku	No	New
Pit15	OnGrade	Hornsby Council Inlets (KI+grate), 3% crossfall, all grades	Hornsby 0.9 m lintel			0.2	76.69		0	0	2335045	24667019	No	1579479 1 x Ku	No	New
PitD	OnGrade	Hornsby Council Inlets (KI+grate), 3% crossfall, all grades	Hornsby 4.2 m lintel			3	79.9		0	0	2335083	24666963	No	1235606 1 x Ku	No	New
PitF	OnGrade	Hornsby Council Inlets (KI+grate), 3% crossfall, all grades	Hornsby 4.2 m lintel			7.9	78.4		0	0	2335012	24666949	No	3172235 1 x Ku	No	New
PitE1	OnGrade	Hornsby Council Inlets (KI+grate), 3% crossfall, all grades	Hornsby 4.2 m lintel			4.8	76.76		0	0	2335034	24667005	No	8377567 1 x Ku	No	New
PitE	OnGrade	Hornsby Council Inlets (KI+grate), 3% crossfall, all grades	Hornsby 4.2 m lintel			1.4	76.66		0	0	2335036	24667014	No	255887 1 x Ku	No	New

DETENTION BASIN DETAILS

Name	Elev	Surf. Area	Not Used	Outlet Type	K	Dia(mm)	Centre RL	Pit Family	Pit Type	x	y	HED	Crest RL	Crest Length(nid
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SUB-CATCHMENT DETAILS

Name	Pit or Node	Total Area (ha)	Paved Area %	Grass Area %	Supp Area %	Paved Time (min)	Grass Time (min)	Supp Time (min)						
CatA	Pit8		0.309	83.6	16.4	0	5	10	5					
CatC	PitC2		0.4235	0	42.6	57.4	5	10	5					
CatB	Pit12		0.231	86.6	13.4	0	5	10	5					
CatD	PitD		0.3915	100	0	0	5	10	5					
CatF	PitF		0.138	100	0	0	5	10	5					
CatE	PitE1		0.2395	94	6	0	5	10	5					

PIPE DETAILS

Name	From	To	Length (m)	U/S IL (m)	D/S IL (m)	Slope (%)	Type	Dia (mm)	I.D. (mm)	Rough	Pipe Is	No. Pipes	Chg From	At Chg
Pipe8	Pit8	Pit7		5.4	78.724	78.67	1 Concrete, under roads	375	375	0.013	New	1	Pit8	0
Pipe7	Pit7	Pit6		13.9	78.58	78.32	1.87 Concrete, under roads	375	375	0.013	New	1	Pit7	0
Pipe6	Pit6	BendDummy		43.5	78.27	77.4	2 Concrete, under roads	375	375	0.013	New	1	Pit6	0
PipeBend	BendDummy	Pit5		2	77.35	77.31	2 Concrete, under roads	375	375	0.013	New	1	BendDumn	0
Pipe5	Pit5	Pit4		12.1	77.26	77.13	1.07 Concrete, under roads	375	375	0.013	New	1	Pit5	0
Pipe4	Pit4	Pit3		33.984	77.08	76.41	1.97 Concrete, under roads	375	375	0.013	New	1	Pit4	0
Pipe3	Pit3	Pit2		4	76.36	76.19	4.25 Concrete, under roads	375	375	0.013	New	1	Pit3	0
Pipe2	Pit2	Pit1		68.097	76.14	75.61	0.78 Concrete, under roads	375	375	0.013	New	1	Pit2	0
Pipe1	Pit1	Pit Ex1		26.3	75.58	75.06	1.98 Concrete, under roads	825	825	0.013	New	1	Pit1	0
Pipe0.5	Pit Ex1	PitEx0.5		23.7	75	74.5	2.11 Concrete, under roads	825	825	0.013	New	1	Pit Ex1	0
PipeEx0	PitEx0.5	PitEx0		61	74.5	74	0.82 Concrete, under roads	825	825	0.013	New	1	PitEx0.5	0
PipeDS	PitEx0	NDS		31	74	73.5	1.61 Concrete, under roads	375	375	0.013	New	1	PitEx0	0
PipeC2	PitC2	PitC1		25	79.1	78.6	2 Concrete, under roads	300	300	0.013	New	1	PitC2	0
PipeC1	PitC1	Pit12		15	78.6	78.3	2 Concrete, under roads	375	375	0.013	New	1	PitC1	0
Pipe12	Pit12	Pit13		5	78.25	78.15	2 Concrete, under roads	375	375	0.013	New	1	Pit12	0
Pipe13	Pit13	Pit14		22.3	78.1	76.3	8.07 Concrete, under roads	600	600	0.013	New	1	Pit13	0
Pipe14	Pit14	Pit15		28	76.25	75.74	1.82 Concrete, under roads	600	600	0.013	New	1	Pit14	0
Pipe15	Pit15	Pit1		8	75.84	75.68	2 Concrete, under roads	600	600	0.013	New	1	Pit15	0
PipeD	PitD	Pit13		20	78.9	78.15	3.75 Concrete, under roads	300	300	0.013	New	1	PitD	0
PipeF	PitF	PitE1		56	77.4	76.12	2.29 Concrete, under roads	375	375	0.013	New	1	PitF	0
PipeE1	PitE1	PitE		10	76.1	75.9	2 Concrete, under roads	450	450	0.013	New	1	PitE1	0
PipeE	PitE	Pit1		8	75.84	75.68	2 Concrete, under roads	450	450	0.013	New	1	PitE	0

DETAILS of SERVICES CROSSING PIPES

Pipe	Chg (m)	Bottom Elev (m)	Height of Service Chg (m)	Bottom Elev (m)	Height of S Chg (m)	Bottom Elev (m)	Height of S etc (m)
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CHANNEL DETAILS

Name	From	To	Type	Length (m)	U/S IL (m)	D/S IL (m)	Slope (%)	Base Width (m)	L.B. Slope (1:?)	R.B. Slope (1:?)	Manning n	Depth (m)	Roofed
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OVERFLOW ROUTE DETAILS

Name	From	To	Travel Time	Spill Level	Crest Length	Weir Coeff. C	Cross Section	Safe Depth Major Stori	SafeDepth Minor Stor	Safe DxV	Bed Slope	D/S Area Contributing	id
			(min)	(m)	(m)			(m)	(m)	(sq.m/sec)	(%)	%	
OF8	Pit8	Pit7		1			8 m wide road (half section)	0.3	0.15	0.4	1.9	0	309
OF7	Pit7	Pit6		1			Pathway 1.2 m wide	0.3	0.15	0.6	2	0	307
OF6	Pit6	Pit5		1			Pathway 1.2 m wide	0.3	0.15	0.6	0.8	0	305
OF5	Pit5	Pit4		1			Pathway 1.2 m wide	0.3	0.15	0.6	1.1	0	303
OF4	Pit4	Pit3		1			Pathway 1.2 m wide	0.3	0.15	0.6	2	0	301
OF3	Pit3	Pit2		1			Pathway 1.2 m wide	0.3	0.15	0.6	4.2	0	298
OF2	Pit2	Pit1		1			8 m wide road (half section)	0.3	0.15	0.4	0.8	0	296
OF1	Pit1	Pit Ex1		1			Dummy used to model flow across road low points	0.2	0.05	0.6	2	0	294
OF-Ex0.5	Pit Ex1	PitEx0.5		1			Dummy used to model flow across road low points	0.2	0.05	0.6	2	0	7523207
OF-Ex0	PitEx0.5	PitEx0		1			8 m wide road (half section)	0.3	0.15	0.4	2	0	7523198
OF-DS	PitEx0	NDS		1			8 m wide road (half section)	0.3	0.15	0.4	2	0	289
OF Total	NDS	N Total		1			Dummy used to model flow across road low points	0.2	0.05	0.6	1	0	192
OF-2	PitC2	PitC1		1			Pathway 1.2 m wide	0.3	0.15	0.6	2	0	612273
OF-C1	PitC1	Pit12		1			Pathway 1.2 m wide	0.3	0.15	0.6	2	0	528276
OF12	Pit12	Pit13		1			Pathway 1.2 m wide	0.3	0.15	0.6	2	0	301283
OF13	Pit13	Pit14		1			Pathway 1.2 m wide	0.3	0.15	0.6	8	0	301286
OF14	Pit14	Pit15		1			Pathway 1.2 m wide	0.3	0.15	0.6	1.8	0	301290
OF15	Pit15	Pit1		1			Pathway 1.2 m wide	0.3	0.15	0.6	2	0	301293
OF-D	PitD	Pit13		1			Pathway 1.2 m wide	0.3	0.15	0.6	3.8	0	1235611
OF-F	PitF	PitE1		1			Pathway 1.2 m wide	0.3	0.15	0.6	2.3	0	3172257
OF-E1	PitE1	PitE		1			Pathway 1.2 m wide	0.3	0.15	0.6	1	0	8377604
OF-E	PitE	Pit1		1			Pathway 1.2 m wide	0.3	0.15	0.6	1	0	1579521