

HYDROLOGY – MINOR 10 YEAR STORM EVENT																					
Pit	Pit	Catch	Time	Intensity	Runoff	Area	Full	Full	Full	Partial	Partial	Partial	Catchment	Approach	Flooded	Flooded	Flooded	Max Pond	Inlet	Bypass	Bypass
Name	Type	ID	Tc	I	C	A	CA	Sum CA	Qc=CA	CA	Sum CA	Qc=CA	Flow Qc	Flow Qa	Depth	Width	Vel.Dep	Depth	Flow Qg	Flow Qb	Pit
(-)	(-)	(-)	(min)	(mm/hr)	(-)	(ha)	(ha)	(ha)	(L/s)	(ha)	(ha)	(L/s)	(L/s)	(L/s)	(m)	(m)	(sq.m/s)	(m)	(L/s)	(L/s)	(-)
8/01	1.8 m lintel	1i	2.00	136.04	0.90	0.0234	0.0211			0.0211		0.0003	3.7						3.7		-
		1P	6.00	136.04	0.85	0.0011	0.0009	0.0098				0.0092	3.5		3.7						
		1i	2.00	136.04	0.90	0.0099	0.0089			0.0089											
9/01	Dish Drain Inlet	1P	6.00	136.04	0.85	0.0030	0.0025	0.0267	10.1	0.0008	0.0250	9.5	10.1	19.1	0.045	1.15	0.05		9.6	9.5	7/01
		1i	2.00	136.04	0.90	0.0269	0.0242			0.0242											
10/01	1.8 m lintel	1P	6.00	136.04	0.85	0.0036	0.0030	0.0320	12.1	0.0010	0.0300	11.3	12.1	12.8	0.049	0.89	0.04		12.8		3/03
		1i	2.00	136.04	0.90	0.0322	0.0290			0.0290											
11/07	1.8 m lintel	1P	6.00	136.04	0.85	0.0008	0.0007	0.0074	2.8	0.0002	0.0069	2.6	2.8	2.8	0.050	0.52	0.01		2.8		11/06
		1i	2.00	136.04	0.90	0.0074	0.0067			0.0067											
11/06	1.8 m lintel	1P	6.00	136.04	0.85	0.0033	0.0028	0.0297	11.2	0.0009	0.0279	10.5	11.2	11.2	0.035	1.46	0.01		11.2		11/05
		1i	2.00	136.04	0.90	0.0299	0.0269			0.0269											
11/05	1.8 m lintel	1P	6.00	136.04	0.85	0.0044	0.0037	0.0391	14.8	0.0012	0.0367	13.9	14.8	14.8	0.029	1.29	0.03		14.8		11/04
		1i	2.00	136.04	0.90	0.0394	0.0354			0.0354											
11/04	1.8 m lintel	1P	6.00	136.04	0.85	0.0047	0.0039	0.0416	15.7	0.0013	0.0390	14.7	15.7	15.7	0.028	1.31	0.03		15.7		11/03
		1i	2.00	136.04	0.90	0.0419	0.0377			0.0377											
11/03	1.8 m lintel	1P	6.00	136.04	0.85	0.0048	0.0040	0.0425	16.1	0.0013	0.0398	15.1	16.1	16.1	0.027	1.29	0.03		16.1		11/02
		1i	2.00	136.04	0.90	0.0428	0.0385			0.0385											
11/02	1.8 m lintel	1P	6.00	136.04	0.85	0.0050	0.0042	0.0445	16.8	0.0014	0.0417	15.8	16.8	16.8	0.028	1.15	0.03		16.8		11/01
		1i	2.00	136.04	0.90	0.0448	0.0403			0.0403											
11/01	1.8 m lintel	1P	6.00	136.04	0.85	0.0034	0.0029	0.0303	11.4	0.0010	0.0284	10.7	11.4	11.4	0.049	0.55	0.06		11.4		18/03
		1i	2.00	136.04	0.90	0.0305	0.0274			0.0274											
12/01	Grated Drain	1P	6.00	136.04	0.85	0.0046	0.0039	0.0411	15.5	0.0013	0.0385	14.6	15.5	15.5	0.030	0.95	0.13		15.5		25/01
		1i	2.00	136.04	0.90	0.0414	0.0372			0.0372											
13/06	1.8 m lintel	1P	6.00	136.04	0.85	0.0016	0.0014	0.0144	5.4	0.0005	0.0135	5.1	5.4	5.4	0.039	0.59	0.02		5.4		13/04
		1i	2.00	136.04	0.90	0.0144	0.0130			0.0130											
13/05	Junction Pit 600x600																				-
13/04	1.8 m lintel	1P	6.00	136.04	0.85	0.0033	0.0028	0.0297	11.2	0.0009	0.0278	10.5	11.2	11.2	0.052	1.29	0.02		11.2		13/03
		1i	2.00	136.04	0.90	0.0299	0.0269			0.0269											
13/03	1.8 m lintel	1P	6.00	136.04	0.85	0.0024	0.0020	0.0214	8.1	0.0007	0.0201	7.6	8.1	8.1	0.047	0.99	0.02		8.1		13/02
		1i	2.00	136.04	0.90	0.0216	0.0194			0.0194											
13/02	Dish Drain Inlet	1P	6.00	136.04	0.85	0.0017	0.0014	0.0149	5.6	0.0005	0.0140	5.3	5.6	7.0	0.016	0.74	0.02		4.8	2.2	-
		1i	2.00	136.04	0.90	0.0150	0.0135			0.0135											
13/01	HW 525																				-
14/01	Interallotment Pit 600x600	1P	6.00	136.04	0.85	0.0354	0.0299	0.3167	119.7	0.0150	0.3017	114.0	119.7	119.7	0.114	2.37	0.07		119.7		22/01
		1i	3.00	136.04	0.90	0.3186	0.2868			0.2868											
15/01	1.8 m lintel	1P	6.00	136.04	0.85	0.0026	0.0022	0.0229	8.7	0.0007	0.0215	8.1	8.7	8.7	0.029	1.55	0.01		8.7		30/01
		1i	2.00	136.04	0.90	0.0231	0.0208			0.0208											
16/02	1.8 m lintel	1P	6.00	136.04	0.85	0.0038	0.0032	0.0339	12.8	0.0011	0.0318	12.0	12.8	12.8	0.029	0.89	0.01		12.8		23/02
		1i	2.00	136.04	0.90	0.0341	0.0307			0.0307											
16/01	1.8 m lintel	1P	6.00	136.04	0.85	0.0014	0.0011	0.0121	4.6	0.0004	0.0114	4.3	4.6	4.6	0.043	0.59	0.02		4.6		CP/03
		1i	2.00	136.04	0.90	0.0122	0.0110			0.0110											
17/01	Dish Drain Inlet Sag	1P	6.00	136.04	0.85	0.0027	0.0023	0.0243	9.2	0.0008	0.0228	8.6	9.2	18.1	0.042			0.150	18.1		8/06
		1i	2.00	136.04	0.90	0.0245	0.0220			0.0220											
18/03	2.4 m lintel sag	1P	6.00	136.04	0.85	0.0077	0.0065	0.0688	26.0	0.0022	0.0645	24.4	26.0	26.0	0.039			0.150	26.0		18/02
		1i	2.00	136.04	0.90	0.0693	0.0623			0.0623											
18/02	2.4 m lintel	1P	6.00	136.04	0.85	0.0014	0.0012	0.0124	4.7	0.0004	0.0116	4.4	4.7	4.7	0.023	0.58	0.02		4.7		18/01
		1i	2.00	136.04	0.90	0.0124	0.0112			0.0112											
18/01	1.8 m lintel	1P	6.00	136.04	0.85	0.0029	0.0025	0.0264	10.0	0.0008	0.0247	9.3	10.0	10.0	0.037	0.38	0.05		10.0		4/02
		1i	2.00	136.04	0.90	0.0265	0.0239			0.0239											
19/01	Dish Drain Inlet	1P	6.00	136.04	0.85	0.0017	0.0014	0.0148	5.6	0.0005	0.0138	5.2	5.6	5.6	0.039	0.59	0.02		4.2	1.4	13/02
		1i	2.00	136.04	0.90	0.0149	0.0134			0.0134											
20/01	1.8 m lintel	1P	6.00	136.04	0.85	0.0010	0.0008	0.0089	3.4	0.0003	0.0083	3.1	3.4	3.4	0.033	0.50	0.01		3.4		34/01
		1i	2.00	136.04	0.90	0.0089	0.0080			0.0080											
22/01	Interallotment Pit 600x600	1P	6.00	136.04	0.85	0.0201	0.0170	0.1801	68.1	0.0085	0.1716	64.9	68.1	68.1	0.085	2.02	0.05		68.1		13/02
		1i	3.00	136.04	0.90	0.1812	0.1631			0.1631											
23/02	2.4 m lintel sag	1P	6.00	136.04	0.85	0.0021	0.0017	0.0184	7.0	0.0006	0.0172	6.5	7.0	23.2	0.036			0.150	23.2		23/01
		1i	2.00	136.04	0.90	0.0185	0.0167			0.0167											
23/01	2.4 m lintel sag	1P	6.00	136.04	0.85	0.0064	0.0054	0.0570	21.5	0.0018	0.0534	20.2	21.5	37.7	0.050			0.150	37.7		-
		1i	2.00	136.04	0.90	0.0573	0.0516			0.0516											
24/01	1.8 m lintel	1P	6.00	136.04	0.85	0.0058	0.0049	0.0523	19.8	0.0016	0.0490	18.5	19.8	19.8	0.032	0.30	0.03		19.8		28/01
		1i	2.00	136.04	0.90	0.0526	0.0474			0.0474											
25/02	1.8 m lintel	1P	6.00	136.04	0.85	0.0045	0.0038	0.0404	15.3	0.0013	0.0378	14.3	15.3	15.3	0.047	1.02	0.04		15.3		25/01
		1i	2.00	136.04	0.90	0.0406	0.0366			0.0366											
25/01	1.8 m lintel	1P	6.00	136.04	0.85	0.0018	0.0016	0.0164	6.2	0.0005	0.0154	5.8	6.2	6.2	0.021	0.62	0.02		6.2		4/06
		1i	2.00	136.04	0.90	0.0165	0.0149			0.0149											
26/01	1.8 m lintel	1P	6.00	136.04	0.85	0.0019	0.0016	0.0166	6.3	0.0005	0.0156	5.9	6.3	6.3					6.3		1/07
		1i	2.00	136.04	0.90	0.0167	0.0151			0.0151											
27/01	Dish Drain Inlet	1P	6.00	136.04	0.85	0.0054	0.0046	0.0486	18.4	0.0023	0.0463	17.5	18.4	18.4	0.045	1.08	0.05		9.4	9.0	9/01
		1i	3.00	136.04	0.90	0.0489	0.0440			0.0440											
28/01	1.8 m lintel	1P	6.00	136.04	0.85	0.0029	0.0025	0.0261	9.9	0.0008	0.0244	9.2	9.9	9.9	0.025	1.44	0.01		9.9		43/01
		1i	2.00	136.04	0.90	0.0262	0.0236														

HYDROLOGY – MINOR 10 YEAR STORM EVENT																					
Pit	Pit	Catch	Time	Intensity	Runoff	Area	Full	Full	Full	Partial	Partial	Partial	Catchment	Approach	Flooded	Flooded	Flooded	Max Pond	Inlet	Bypass	Bypass
Name	Type	ID	Tc	I	C	A	CA	Sum CA	Qc=CA	CA	Sum CA	Qc=CA	Flow Qc	Flow Qa	Depth	Width	Vel.Dep	Depth	Flow Qg	Flow Qb	Pit
(-)	(-)	(-)	(min)	(mm/hr)	(-)	(ha)	(ha)	(ha)	(L/s)	(ha)	(ha)	(L/s)	(L/s)	(L/s)	(m)	(m)	(sq.m/s)	(m)	(L/s)	(L/s)	(-)
31/01	1.8 m intel	1P	6.00	136.04	0.85	0.0034	0.0029	0.0302	11.4	0.0010	0.0283	10.7	11.4	11.4	0.026	1.20	0.02		11.4		25/02
		1I	2.00	136.04	0.90	0.0304	0.0273			0.0273											
32/01	1.8 m intel	1P	6.00	136.04	0.85	0.0024	0.0020	0.0210	7.9	0.0007	0.0197	7.4	7.9	7.9	0.041	1.17	0.02		7.9		8/06
		1I	2.00	136.04	0.90	0.0212	0.0190			0.0190											
34/01	1.8 m intel	1P	6.00	136.04	0.85	0.0022	0.0018	0.0194	7.3	0.0006	0.0181	6.9	7.3	7.3	0.046	0.90	0.02		7.3		42/01
		1I	2.00	136.04	0.90	0.0195	0.0175			0.0175											
35/01	Dish Drain Inlet	1P	6.00	136.04	0.85	0.0021	0.0017	0.0185	7.0	0.0006	0.0173	6.5	7.0	14.8	0.048	1.13	0.04		7.9	6.9	2/07
		1I	2.00	136.04	0.90	0.0186	0.0167			0.0167											
36/02	1.8 m intel	1P	6.00	136.04	0.85	0.0011	0.0009	0.0099	3.7	0.0003	0.0092	3.5	3.7	3.7	0.016	1.09	0.01		3.7		36/01
		1I	2.00	136.04	0.90	0.0099	0.0089			0.0089											
36/01	1.8 m intel	1P	6.00	136.04	0.85	0.0021	0.0018	0.0192	7.2	0.0006	0.0180	6.8	7.2	7.2	0.034	0.53	0.03		7.2		18/02
		1I	2.00	136.04	0.90	0.0193	0.0174			0.0174											
37/01	1.8 m intel	1P	6.00	136.04	0.85	0.0010	0.0009	0.0092	3.5	0.0003	0.0087	3.3	3.5	3.5	0.030	0.61	0.01		3.5		15/01
		1I	2.00	136.04	0.90	0.0093	0.0084			0.0084											
38/01	1.8 m intel	1P	6.00	136.04	0.85	0.0021	0.0018	0.0186	7.0	0.0006	0.0174	6.6	7.0	7.0	0.034	0.52	0.03		7.0		18/03
		1I	2.00	136.04	0.90	0.0187	0.0169			0.0169											
39/01	1.8 m intel	1P	6.00	136.04	0.85	0.0010	0.0009	0.0094	3.5	0.0003	0.0088	3.3	3.5	3.5	0.016	0.93	0.01		3.5		38/01
		1I	2.00	136.04	0.90	0.0094	0.0085			0.0085											
40/01	1.8 m intel	1P	6.00	136.04	0.85	0.0024	0.0020	0.0213	8.1	0.0007	0.0200	7.6	8.1	8.1	0.041	1.19	0.02		8.1		32/01
		1I	2.00	136.04	0.90	0.0215	0.0193			0.0193											
41/01	1.8 m intel	1P	6.00	136.04	0.85	0.0070	0.0059	0.0627	23.7	0.0020	0.0587	22.2	23.7	23.7	0.071	1.56	0.04		22.9	0.7	10/01
		1I	2.00	136.04	0.90	0.0630	0.0567			0.0567											
42/01	1.8 m intel	1P	6.00	136.04	0.85	0.0022	0.0018	0.0194	7.3	0.0006	0.0182	6.9	7.3	7.3	0.046	0.90	0.02		7.3		19/01
		1I	2.00	136.04	0.90	0.0195	0.0176			0.0176											
43/01	Dish Drain Inlet	1P	6.00	136.04	0.85	0.0025	0.0021	0.0225	8.5	0.0007	0.0211	8.0	8.5	8.5	0.038	0.56	0.03		5.4	3.1	44/01
		1I	2.00	136.04	0.90	0.0227	0.0204			0.0204											
44/01	Dish Drain Inlet	1P	6.00	136.04	0.85	0.0039	0.0033	0.0352	13.3	0.0011	0.0330	12.5	13.3	16.4	0.051	1.67	0.03		8.6	7.8	35/01
		1I	2.00	136.04	0.90	0.0354	0.0318			0.0318											
CP/04	Raised Grate Inlet 2400x2100	1P	10.00	111.11	0.57	144.94	0.8331	1.7027	525.5	0.5832	1.4528	518.0	525.5	525.5	0.150			0.150	525.5		23/02
		1I	7.00	128.36	0.90	0.9663	0.8696			0.8696											
CP/03	1.8 m intel	1P	6.00	136.04	0.85	0.0005	0.0004	0.0045	1.7	0.0001	0.0042	1.6	1.7	1.7	0.032	0.37	0.01		1.7		23/01
		1I	2.00	136.04	0.90	0.0045	0.0041			0.0041											
CP/02	GPT													0.0					0.0		-
CP/01	HW 1050																				-
Z1/01	Interallotment Pit 900x900	1P	6.00	136.04	0.85	0.1977	0.1672	1.7682	668.2	0.1393	1.7404	657.7	668.2	668.2	0.263	4.16	0.26		668.2		22/01
		1I	5.00	136.04	0.90	1.7789	1.6011			1.6011											
22/01	Interallotment Pit 900x900	1P	6.00	136.04	0.85	0.1170	0.0990	1.0470	395.7	0.0825	1.0306	389.4	395.7	395.7	0.206	3.47	0.18		395.7		17/01
		1I	5.00	136.04	0.90	1.0534	0.9481			0.9481											
23/01	Interallotment Pit 900x900	1P	7.00	128.36	0.57	0.3093	0.1778	0.3633	129.6	0.1524	0.3379	127.7	129.6	129.6	0.119	2.43	0.08		129.6		24/01
		1I	6.00	136.04	0.90	0.2062	0.1856			0.1856											
24/01	Interallotment Pit 900x900	1P	7.00	128.36	0.57	0.4615	0.2653	0.5422	193.3	0.2274	0.5043	190.6	193.3	193.3	0.145	2.74	0.10		193.3		25/01
		1I	6.00	136.04	0.90	0.3077	0.2769			0.2769											
25/01	Interallotment Pit 600x600	1P	7.00	128.36	0.57	0.6982	0.4013	0.8202	292.5	0.3440	0.7629	288.3	292.5	292.5	0.178	3.14	0.14		292.5		3/04
		1I	6.00	136.04	0.90	0.4655	0.4189			0.4189											
26/02	Interallotment Pit 900x900	1P	6.00	136.04	0.85	0.0710	0.0601	0.6353	240.1	0.0501	0.6253	236.3	240.1	240.1	0.162	2.94	0.12		240.1		12/01
		1I	5.00	136.04	0.90	0.6392	0.5753			0.5753											
Z6/01	Junction Pit 600x600																				-

CAMDEN COUNCIL
Approved by the Council of Camden under the provisions
of the Environment Planning and Assessment Act 1979
APPROVAL
27/08/2016
CONSTRUCTION CERTIFICATE
CC 18.2015.1230.1

07	ISSUE FOR CONSTRUCTION CERTIFICATE	15/06/16
06	ISSUE FOR CONSTRUCTION CERTIFICATE	13/06/16
05	ISSUE FOR CONSTRUCTION CERTIFICATE	02/06/16
04	ISSUE FOR CONSTRUCTION CERTIFICATE	23/05/16
03	ISSUE FOR CONSTRUCTION CERTIFICATE	11/04/16
02	ISSUE FOR CONSTRUCTION CERTIFICATE	07/04/16
01	ISSUE FOR CONSTRUCTION CERTIFICATE	26/02/16
Issue	Description	Date



Status CONSTRUCTION CERTIFICATE NOT TO BE USED FOR CONSTRUCTION			
Scales	N.T.S.	Current Issue Signatures	
Original Size	A1	Drawn	J. VARGAS
Height	AHD	Designed	A. MALABUYOC
Datum	MGA	Checked	A. KALAJZICH
Grid		Approved	R. SMITH
Filename:			

Project THE HERMITAGE HERMITAGE WAY	
Title STORMWATER DRAINAGE CALCULATION SHEET 3	

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North Sydney NSW 2060
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Drawing No.	Project No.	Issue
TRHW-CI-322-AA007442CC	07	