

Rice Pond Village DATE 11/8/2021



AZIMUTH LAND DESIGN, LLC
 325 Donald Lynch Boulevard, Suite 100, Marlborough, MA 01752
 Telephone (508)-485-0137 james@azimuthlanddesign.co

DRAINAGE STRUCTURE COMPUTATIONS

LOCATION		AREA		TIME OF FLOW		Q (CFS)	CHAN-NEL or PIPE SIZE	DESIGN			PROFILE									
STREET	FROM TO	INCREMENT	TOTAL	TO INLET	IN CHAN-NEL			Tc	SLOPE	N	CAPACITY FULL	V (FPS)	LENGTH (FT)	FALL (FT)	LOSSES (FT)	UPPER INV.	LOWER INV.			
HILLCREST CIRCLE	TOP DA	CB 0462L	.07	.40																
			.06	.95																
			0.13	0.15	8.1	-	8.1	5.8	0.49											
HILLCREST CIRCLE	CB 0462L	DMH 0472							0.49	8"	0.15	0.12	1.44	4.2	13'	0.20	0.20	35.10	35.40	
																	0.20	35.10	35.20	
HILLCREST CIRCLE	TOP DA	CB 0462R	.08	.40																
			.08	.95																
			0.16	0.18	11	-	11	53	0.58											
HILLCREST CIRCLE	CB 0462R	DMH 0472							0.58	8"	0.18	0.12	1.58	4.6	11'	0.20	0.20	35.10	35.40	
																		0.20	35.10	35.20

Rice Pond Village

DATE 11/8/2021

325 Donald Lynch Boulevard, Suite 100, Marlborough, MA 01782
Telephone (508)-485-0137 james@azimuthlanddesign.co

AZIMUTH LAND DESIGN, LLC

PAGE 4 OF 18

DRAINAGE STRUCTURE COMPUTATIONS

LOCATION		AREA		TIME OF FLOW		Q (CFS)	CHAN- NEL OR PIPE SIZE	DESIGN			PROFILE					
STREET	FROM TO	INCREMENT	TOTAL	TO INLET	IN CHAN- NEL			Tc	SLOPE	N	CAPACITY	V (FPS)	LENGTH (FT)	FALL (FT)	LOSSES (FT)	UPPER INV.
HILLCREST CIRCLE	TOP DA DMH 3430	.05	.40													
		.19	.95													
			0.24	7.9	7.9	5.9	1.19									
HILLCREST CIRCLE	DMH 3430 DMH 2470						1.19	.013	0.12	3.87	5.10	108	1.35	0.75	396.80	396.55
HILLCREST CIRCLE	TOP DA CS 2452	.02	.40													
		.09	.95													
			0.11	6.7	6.7	6.7	0.57									
HILLCREST CIRCLE	CS 2452 DMH 2470						0.57	.025	0.12	5.36	7.10	8	0.70	0.75	396.80	396.55

RICE POND VILLAGE DATE 11/8/2021



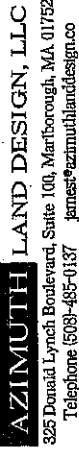
AZIMUTH LAND DESIGN, LLC
 325 Donald Lynch Boulevard, Suite 100, Marlborough, MA 01752
 Telephone: (508)-485-0137 james@azimuthtilanddesign.co

DRAINAGE STRUCTURE COMPUTATIONS

LOCATION		AREA		TIME OF FLOW		Q (CFS)	CHAN- NEL OR PIPE SIZE	DESIGN			PROFILE							
STREET	FROM TO	INCREMENT	TOTAL "C"	TO INLET	IN CHAN- NEL			Tc	SLOPE	N	CAPACITY	V (FPS)	LENGTH (FT)	FALL (FT)	LOSSES (FT)	UPPER INV.	LOWER INV.	
HILLCREST CIRCLE	TOP DA DMH Z420	.07	.40															
		.78	.95															
		0.35	0.84	7.9	-	7.9	5.9	1.73										
HILLCREST CIRCLE	DMH Z420 DMH H75							1.73	12"	.023	0.02	5.14	6.8	0.42	0.90	396.52	393.75	
																1.85	395.60	393.75
HILLCREST CIRCLE	TOP DA CB H75	.04	.40															
		.07	.95															
		0.11	0.75	6.5	-	6.5	6.1	0.50										
HILLCREST CIRCLE	CB H75C DMH H75							0.50	12"	.03	0.02	5.87	7.8	0.10	0.30	396.40	396.10	
																2.35	396.10	393.75

RICE POOD VILLAGES

DATE 11/8/2021



AZIMUTH LAND DESIGN, LLC
325 Donald Lynch Boulevard, Suite 100, Marlborough, MA 01752
Telephone: (508)-485-0137 james@azimuthlanddesign.co

PAGE 6 OF 18

DRAINAGE STRUCTURE COMPUTATIONS

LOCATION		AREA		TIME OF FLOW		Q (CFS)	CHAN- NEL OR PIPE SIZE	DESIGN				PROFILE				
STREET	FROM TO	INCREMENT	TOTAL "C"	TO INLET	IN CHAN- NEL			Tc	SLOPE	N	CAPACITY FULL	V (FPS)	LENGTH (FT)	FALL (FT)	LOSSES (FT)	UPPER INV.
HILLCREST CIRCLE	TOP DA DMH 1475	.11	.40													
		.35	.95													
			0.46.80	11	-	11	53	2.00								
HILLCREST CIRCLE	DMH 1475 DMH 13475							2.00	.02	.012	8.22	7.30	40'	0.80	398.75	392.95
														0.20	392.95	392.75
HILLCREST CIRCLE	DMH 13475 DMH 13440							2.00	.02	.012	8.43	7.40	31'	0.65	392.75	392.10
														0.20	392.10	391.90
HILLCREST CIRCLE	DMH 13440 DMH 12495							2.00	.02	.012	8.22	7.30	40'	0.80	391.90	391.10
														0.20	391.10	390.90

Rice Pond Village

DATE 11/8/2021

AZIMUTH LAND DESIGN, LLC
 325 Donald Lynch Boulevard, Suite 100, Marlborough, MA 01752
 Telephone: (508)-485-0137 james@azimuthlanddesign.co

PAGE 8 OF 18

DRAINAGE STRUCTURE COMPUTATIONS

LOCATION		AREA		TIME OF FLOW		I (CFS)	CHAN- NEL OR PIPE SIZE	DESIGN				PROFILE							
STREET	FROM TO	INCREMENT	TOTAL "C"	TO INLET	IN CHAN- NEL			Tc	SLOPE	N	CAPACITY FULL	V (FPS)	LENGTH (FT)	FALL (FT)	LOSSES (FT)	UPPER INV	LOWER INV		
HILLCREST CIRCLE	TOP DA CB 12x60	.03	.40																
		.07	.95																
			0.10	.79	7.2	-	7.2	6.1	0.48										
HILLCREST CIRCLE	CB DMH 12x56								0.48	12"	.033	.012	6.16	8.6	9'	0.30	291.18	291.30	
													1.85	291.30	291.45				
HILLCREST CIRCLE	TOP DA DMH 12x56	.22	.40																
		.58	.95																
			0.80	.80	11	-	11	53	3.39										
HILLCREST CIRCLE	DMH 12x56 DMH 11x50								3.39	18"	.013	.012	11.33	6.70	102'	1.35	291.45	298.10	
																	0.70	298.10	307.0

RICE POND VILLAGE DATE 11/8/2021



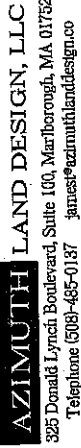
AZIMUTH LAND DESIGN, LLC
 325 Donald Lynch Boulevard, Suite 100, Marlborough, MA 01752
 Telephone (508)-465-0137 jimst@azimuthlanddesign.co

DRAINAGE STRUCTURE COMPUTATIONS

LOCATION		AREA		TIME OF FLOW MIN.		Q (CFS)	CHAN- NEL OR PIPE SIZE	DESIGN				PROFILE				
FROM	TO	INCREMENT	TOTAL "C"	TO INLET	IN CHAN- NEL			Tc	SLOPE	N	CAPACITY FULL	V (FPS)	LENGTH (FT)	FALL (FT)	LOSSES (FT)	UPPER INV.
HILLCREST CIRCLE	TOP DA	CB 11+60	.09	.40												
			.14	.95												
				0.23.73	5.7	5.7	0.96									
HILLCREST CIRCLE	CB 11+60	DMH 11+50					0.96	.072	6.16	8.10	9'	0.30			388.11	388.30
													0.40		388.30	387.90
HILLCREST CIRCLE	TOP DA	DMH 11+50	.31	.40												
			.72	.75												
				1.03.78	11	11	5.3	4.76								
HILLCREST CIRCLE	DMH 11+50	DMH 10+85					4.76	.072	9.94	5.90	61'	0.60			387.90	387.30
													0.20		387.30	387.10

RICE POND VILLAGE

DATE 11/8/2021



AZIMUTH LAND DESIGN, LLC
325 Donald Lynch Boulevard, Suite 100, Marlborough, MA 01752
Telephone (508)-485-0187 james@azimuthtlanddesign.co

DRAINAGE STRUCTURE COMPUTATIONS

LOCATION		AREA		TIME OF FLOW		Q (CFS)	SLOPE	CAPACITY	V (FPS)	LENGTH (FT)	PROFILE							
STREET	FROM TO	INCREMENT	TOTAL "C"	TO INLET	IN CHAN- NEL						Tc	CHAN- NEL or PIPE SIZE	N	FULL	FALL (FT)	LOSSES (FT)	UPPER INV.	LOWER INV.
HILLCREST CIRCLE	TOP DA	CS 10+95L	.07	.40														
		.24	.95															
			0.31	.83	8	8	58	1.49										
HILLCREST CIRCLE	CS 10+95L	DMH 10+85						1.49		12"	.025	0.12	5.14	6.80	13'	0.30	588.0	587.0
														0.60	587.0	587.0		
HILLCREST CIRCLE	TOP DA	CS 10+84.78	.28	.40														
			.28	.95														
			0.56	.68	6.1	6.1	6.2	2.36										
HILLCREST CIRCLE	CS 10+95R	DMH 10+85						2.36		12'	.025	0.12	5.87	7.80	10'	0.30	588.0	587.0
														0.60	587.0	587.0		

RICE POND VILLAGE

DATE 11/8/2021

AZIMUTH LAND DESIGN, LLC
 325 Donald Lynch Boulevard, Suite 100, Marlborough, MA 01762
 Telephone (508)-485-0137 james@azimuthlanddesign.com

PAGE 11 OF 18

DRAINAGE STRUCTURE COMPUTATIONS

LOCATION		AREA		TIME OF FLOW MIN.			Q (CFS)	CHAN-NEL or PIPE SIZE	DESIGN				PROFILE			
STREET	FROM TO	INCREMENT	TOTAL	TO INLET	IN CHAN-NEL	Tc			SLOPE	N	CAPACITY FULL	V (FPS)	LENGTH (FT)	FALL (FT)	LOSSES (FT)	UPPER INV.
HILLCREST CIRCLE	TOP DA DMH 10+85	1.66	.40													
		1.24	.95													
			1.90	.76	11	11	5.3	7.65								
HILLCREST CIRCLE	DMH 10+85 DMH 10+70							7.65	.08	.012	13.33	7.90	11	0.70	387.10	386.90
															1.85	386.90
HILLCREST CIRCLE	TOP DA CB 6+77L	.06	.40													
		.10	.95													
			0.16	.74	7.9	7.9	5.8	0.69								
HILLCREST CIRCLE	CB 6+77L DMH 6+95							0.69	.05	.012	4.15	5.50	20	0.30	397.10	397.40
															0.20	397.10

RICE POND VILLAGE

DATE 11/8/2021

AZIMUTH LAND DESIGN, LLC
325 Donald Lynch Boulevard, Suite 100, Marlborough, MA 01762
Telephone: (508)-485-0137 james@azimuthlanddesign.co

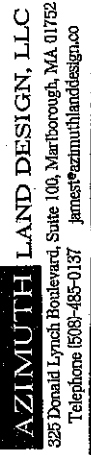
PAGE 12 OF 18

DRAINAGE STRUCTURE COMPUTATIONS

LOCATION		AREA		TIME OF FLOW MIN.			Q (CFS)	CHAN- NEL or PIPE SIZE	DESIGN			PROFILE								
STREET	FROM TO	INCREMENT	TOTAL "C"	TO INLET	IN CHAN- NEL	Tc			SLOPE	N	CAPACITY FULL	V (FPS)	LENGTH (FT)	FALL (FT)	LOSSES (FT)	UPPER INV	LOWER INV			
HILLCREST CIRCLE	TOP CB DA 6477A	.03	.40																	
		.12	.95																	
			0.15	.84	6.8	-	6.8	6.1	0.77											
HILLCREST CIRCLE	CB DMH 6477C 6495								0.77		12"	.020	.012	4.80	6.30	15'	0.30		597.70	597.40
														0.20	397.40	397.20				
HILLCREST CIRCLE	TOP DMH DA 6493	.09	.40																	
		.72	.95																	
			0.31	.79	7.9	-	7.9	5.8	1.42											
HILLCREST CIRCLE	DMH DMH 6493 7436								1.42		12"	.020	.012	4.67	6.20	36'	0.70		597.70	596.50
														0.20	596.50	596.30				

Rice Pond Village

DATE 11/8/2021



AZIMUTH LAND DESIGN, LLC
 325 Donald Lynch Boulevard, Suite 100, Marlborough, MA 01752
 Telephone (508)-485-0137 james@azimuthlanddesign.co

DRAINAGE STRUCTURE COMPUTATIONS

LOCATION		AREA		TIME OF FLOW		Q (CFS)	CHAN-NEL OR PIPE SIZE	DESIGN			PROFILE				
STREET	FROM TO	INCREMENT	TOTAL "C"	TO INLET	IN CHAN-NEL TO Tc			SLOPE	N	CAPACITY FULL	V (FPS)	LENGTH (FT)	FALL (FT)	LOSSES (FT)	UPPER INV.
HILLCREST CIRCLE	TOP DA CB 8175L	.17	.40												
		.46	.95												
			0.63.80	9.1	-	9.1	2.87	5.14	6.80	13'	0.30			292.70	292.70
HILLCREST CIRCLE	CB DMH 8175L						2.87	0.02	1.00	1.00	0.30			292.70	292.70
HILLCREST CIRCLE	TOP DA CB 8175L	.04	.40												
		.10	.95												
			0.14.79	5	-	5	6.50	5.87	7.80	10'	0.30			292.70	292.70
HILLCREST CIRCLE	CB DMH 8175L						0.72	0.02	1.00	1.00	0.30			292.70	292.70

RICE FOND VILLAGE DATE 11/8/2021

AZIMUTH LAND DESIGN, LLC
 325 Donald Lynch Boulevard, Suite 100, Marlborough, MA 01782
 Telephone (508)-485-0137 james@azimuthtlanddesign.com

DRAINAGE STRUCTURE COMPUTATIONS

LOCATION		AREA		TIME OF FLOW		I (CFS)	CHAN- NEL OR PIPE SIZE	DESIGN				PROFILE					
STREET	FROM TO	INCREMENT	TOTAL "C"	TO INLET	IN CHAN- NEL			Tc	SLOPE	N	CAPACITY FULL	V (FPS)	LENGTH (FT)	FALL (FT)	LOSSES (FT)	UPPER INV.	LOWER INV.
HILLCREST CIRCLE	TOP DMH DA 8185	.30	.40														
		.78	.95														
		1.08	.80	9.1	-	9.1	5.6	4.84									
HILLCREST CIRCLE	DMH 8185 TOP 9185							4.84	15"	0.06	0.12	9.38	8.3	96'	2.50	751.7	751.7
															0.70	381.7	381.7
HILLCREST CIRCLE	TOP CB DA 9178	.18	.40														
		.025	.95														
		0.43	.72	7.1	-	7.1	6.1	1.89									
HILLCREST CIRCLE	CB DMH 9175							1.89	12"	0.33	0.12	6.16	8.10	9'	0.30	390.0	381.0
															0.70	381.7	381.7

RICE POND VILLAGES DATE 11/8/2021

AZIMUTH LAND DESIGN, LLC
 325 Donald Lynch Boulevard, Suite 100, Marlborough, MA 01752
 Telephone (508)-485-0187 james@azimuthtlanddesign.co

DRAINAGE STRUCTURE COMPUTATIONS

LOCATION		AREA		TIME OF FLOW			DESIGN				PROFILE									
STREET	FROM TO	INCREMENT	TOTAL	"C"	TO INLET	IN CHAN-NEL	Tc	I	Q (CFS)	CHAN-NEL or PIPE SIZE	SLOPE	N	CAPACITY	V (FPS)	LENGTH (FT)	FALL (FT)	LOSSES (FT)	UPPER INV	LOWER INV	
HILLCREST CIRCLE	TOP DA	DMH 9485.48	.48	.40																
		1.03		.95																
			1.51	.78	9.1	-	9.1	566.60												
HILLCREST CIRCLE	DMH 9485.1046	DMH 9485.1046							640	15"	.02	.02	8.22	7.3	71'	1.40		388.00	381.30	
																	0.30	387.60	381.30	
HILLCREST CIRCLE	TOP C/S DA	104502.06	.06	.40																
			.08	.95																
			0.14	.71	5.3	-	5.3	640.64												
HILLCREST CIRCLE	T C/S 104502.1046	DMH 104502.1046							0.64	12"	.03	.03	6.16	8.10	9'	0.30		388.30	388.00	
																		0.70	388.00	381.30

RICE POND VILLAGE DATE 11/8/2021



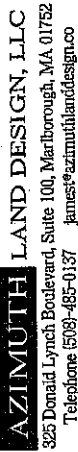
AZIMUTH LAND DESIGN, LLC
 325 Donald Lynch Boulevard, Suite 100, Marlborough, MA 01752
 Telephone: (508)-485-0137 james@azimuthlanddesign.co

DRAINAGE STRUCTURE COMPUTATIONS

LOCATION		AREA		TIME OF FLOW		Q (CFS)	CHAN-NEL OR PIPE SIZE	SLOPE	CAPACITY FULL	V (FPS)	LENGTH (FT)	PROFILE		
STREET	FROM TO	INCREMENT	TOTAL "C"	TO INLET	IN CHAN-NEL							Tc	FALL (FT)	LOSSES (FT)
HILLCREST CIRCLE	TOP DA DMH 10+60	.54	.40											
		1.11	.95											
			1.65	9.1	-	9.1	18"	.015	15.71	9.3	6'	0.15		287.30 287.15
HILLCREST CIRCLE	DMH 10+60 DMH 10+70												2.10	287.15 285.05
HILLCREST CIRCLE	TOP DA DMH 10+70	1.20	.40											
		2.35	.95											
			3.55	11	-	11								
HILLCREST CIRCLE	DMH 10+70 DMH A													285.05 284.75
													0.35	284.75 284.40

RICE POND VILLAGES

DATE 11/8/2021

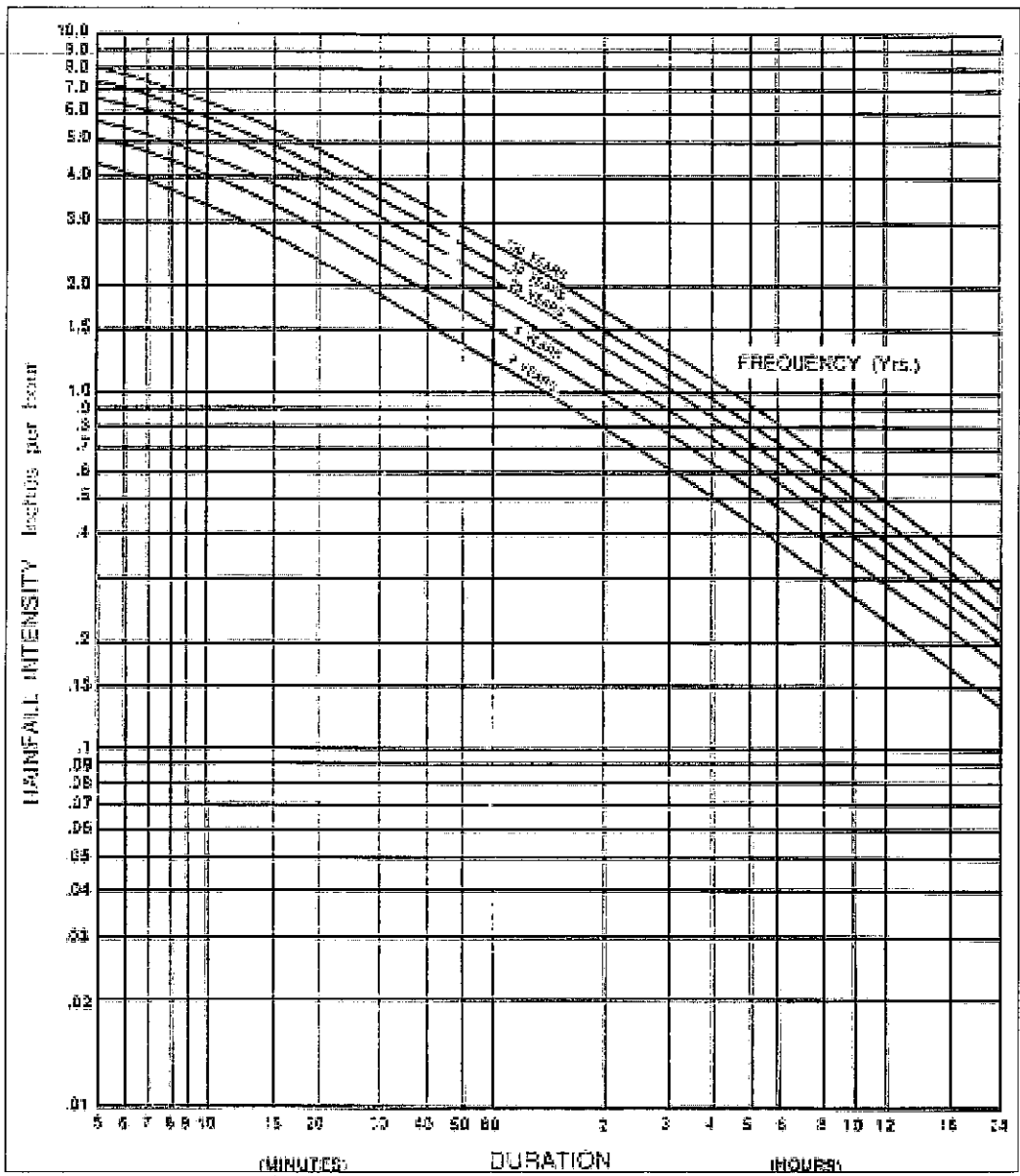


AZIMUTH LAND DESIGN, LLC
325 Donald Lynch Boulevard, Suite 100, Marlborough, MA 01752
Telephone: (508)-485-0137 james@azimuthlanddesign.co

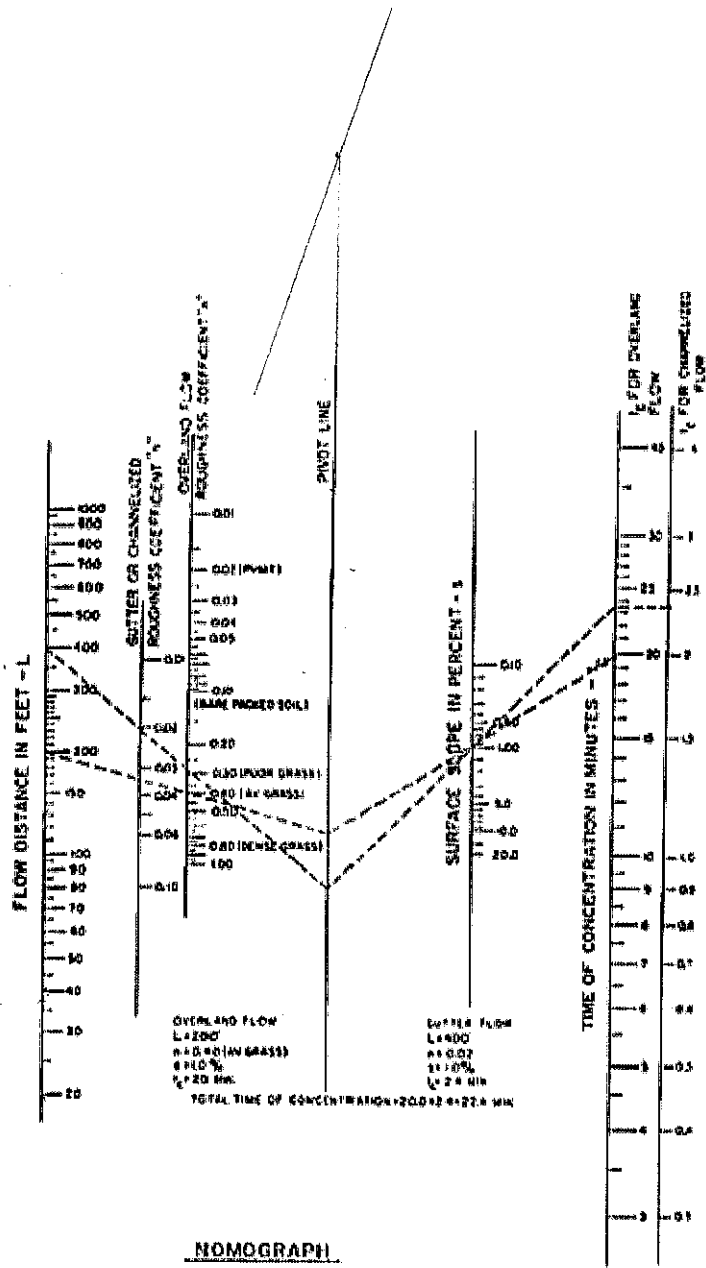
PAGE 18 OF 18

DRAINAGE STRUCTURE COMPUTATIONS

LOCATION		AREA		TIME OF FLOW		Q (CFS)	DESIGN				PROFILE					
STREET	FROM TO	INCREMENT	TOTAL "C"	TO INLET	IN CHAN-NEL		Tc	CHAN-NEL or PIPE SIZE	SLOPE	N	CAPACITY	V (FPS)	LENGTH (FT)	FALL (FT)	LOSSES (FT)	UPPER INV
HILLCREST CIRCLE	DMH A CDS UNIT						8"	.021	.012	2.00	5.9	7'	0.20		384.10	384.20
HILLCREST CIRCLE	CDS UNIT DMH C						8"	.021	.012	2.00	5.9	7'	0.20		384.70	384.90
HILLCREST CIRCLE	DMH A DMH B						18"	.019	.012	13.70	8.10	8'	0.15	6.30	384.10	384.45
HILLCREST CIRCLE	DMH B DMH C						18"	.019	.012	13.70	8.10	8'	0.15	0.30	384.15	384.15
HILLCREST CIRCLE	DMH C INFILTRATION STRUCTURE						24"	.020	.012	29.83	10.0	10'	0.20	6.30	384.10	378.70



**Intensity – Duration – Frequency
Curve for Worcester, MA**



NOMOGRAPH
FOR TIME OF CONCENTRATION

Q & V FOR CONCRETE PIPE
for n=0.013

Slope	8" pipe		12" pipe		15" pipe		18 pipe		24" pipe		30" pipe		36" pipe	
	Qcap	Vfull	Qcap	Vfull	Qcap	Vfull	Qcap	Vfull	Qcap	Vfull	Qcap	Vfull	Qcap	Vfull
0.005	0.83	2.4	2.40	3.2	4.11	3.8	7.03	4.1	14.91	5.0	27.42	5.8	46.01	6.6
0.006	0.81	2.7	2.63	3.6	4.60	4.0	7.70	4.5	16.34	5.5	30.04	6.4	49.31	7.2
0.007	0.98	2.9	2.84	3.7	4.87	4.3	8.31	4.9	17.85	6.0	32.45	6.9	53.26	7.8
0.008	1.05	3.1	3.03	4.0	5.20	4.6	8.89	5.2	18.87	6.5	34.69	7.4	56.94	8.3
0.009	1.12	3.3	3.22	4.3	5.52	4.9	9.43	5.6	20.01	6.7	36.79	7.8	60.39	8.8
0.010	1.18	3.4	3.39	4.5	5.81	5.1	9.94	5.9	21.09	7.1	38.78	8.2	63.66	9.3
0.011	1.23	3.6	3.68	4.7	6.10	5.4	10.42	6.1	22.12	7.4	40.67	8.6	66.77	9.8
0.012	1.29	3.8	3.72	4.9	6.37	5.6	10.89	6.4	23.11	7.8	42.48	9.0	69.74	10.2
0.013	1.34	3.9	3.87	5.1	6.63	5.8	11.33	6.7	24.05	8.1	44.22	9.4	72.58	10.8
0.014	1.39	4.1	4.01	5.3	6.88	6.1	11.76	6.9	24.86	8.4	45.89	9.7	75.32	11.0
0.015	1.44	4.2	4.16	5.5	7.12	6.3	12.17	7.2	25.63	8.7	47.50	10.1	77.97	11.4
0.016	1.49	4.3	4.29	5.7	7.36	6.5	12.57	7.4	26.68	9.0	49.06	10.4	80.52	11.8
0.017	1.53	4.5	4.42	5.8	7.58	6.7	12.96	7.6	27.50	9.2	50.58	10.7	83.00	12.2
0.018	1.58	4.6	4.55	6.0	7.80	6.9	13.33	7.9	28.30	9.5	52.03	11.1	85.41	12.5
0.019	1.62	4.7	4.67	6.2	8.02	7.1	13.70	8.1	29.07	9.8	53.48	11.4	87.75	12.9
0.020	1.66	4.9	4.60	6.3	8.22	7.3	14.05	8.3	29.83	10.0	54.85	11.7	90.03	13.2
0.021	1.70	5.0	4.91	6.5	8.43	7.4	14.40	8.5	30.57	10.3	56.20	11.9	92.25	13.5
0.022	1.74	5.1	5.03	6.6	8.63	7.6	14.74	8.7	31.29	10.5	57.52	12.2	94.42	13.8
0.023	1.78	5.2	5.14	6.8	8.82	7.8	15.07	8.9	31.99	10.7	58.81	12.5	96.55	14.1
0.024	1.82	5.3	5.25	6.9	9.01	7.9	15.40	9.1	32.68	11.0	60.08	12.8	98.62	14.4
0.025	1.86	5.4	5.36	7.1	9.19	8.1	15.71	9.3	33.35	11.2	61.32	13.0	100.68	14.7
0.026	1.90	5.5	5.47	7.2	9.38	8.3	16.02	9.5	34.01	11.4	62.53	13.3	102.65	15.0
0.027	1.93	5.6	5.57	7.4	9.55	8.4	16.33	9.6	34.68	11.8	63.72	13.5	104.60	15.3
0.028	1.97	5.8	5.68	7.5	9.73	8.6	16.63	9.8	35.29	11.8	64.89	13.8	106.52	15.6
0.029	2.00	5.9	5.78	7.6	9.90	8.7	16.92	10.0	35.92	12.0	66.04	14.0	108.41	15.9
0.030	2.04	6.0	5.87	7.8	10.07	8.9	17.21	10.2	36.53	12.3	67.17	14.3	110.28	16.2
0.031	2.07	6.1	5.97	7.9	10.24	9.0	17.50	10.3	37.14	12.5	68.28	14.5	112.08	16.4
0.032	2.10	6.2	6.07	8.0	10.40	9.2	17.78	10.5	37.73	12.7	69.37	14.7	113.88	16.7
0.033	2.14	6.2	6.16	8.1	10.56	9.3	18.05	10.7	38.32	12.9	70.45	15.0	115.64	16.9
0.034	2.17	6.3	6.25	8.3	10.72	9.5	18.32	10.8	38.89	13.0	71.51	15.2	117.38	17.2
0.035	2.20	6.4	6.35	8.4	10.88	9.6	18.59	11.0	39.48	13.2	72.55	15.4	119.10	17.4
0.036	2.23	6.5	6.44	8.5	11.03	9.7	18.86	11.1	40.02	13.4	73.58	15.6	120.79	17.7
0.037	2.26	6.6	6.52	8.6	11.19	9.9	19.12	11.3	40.57	13.6	74.60	15.8	122.45	17.9
0.038	2.29	6.7	6.61	8.7	11.34	10.0	19.37	11.4	41.12	13.8	75.60	16.1	124.10	18.2
0.039	2.32	6.8	6.70	8.8	11.48	10.1	19.63	11.6	41.65	14.0	76.59	16.3	125.72	18.4
0.040	2.35	6.9	6.78	9.0	11.63	10.3	19.88	11.7	42.19	14.2	77.56	16.5	127.32	18.7
0.041	2.38	7.0	6.87	9.1	11.77	10.4	20.12	11.9	42.71	14.3	78.53	16.7	128.90	18.9
0.042	2.41	7.0	6.95	9.2	11.92	10.5	20.37	12.0	43.23	14.5	79.48	16.9	130.46	19.1
0.043	2.44	7.1	7.03	9.3	12.06	10.6	20.61	12.2	43.74	14.7	80.42	17.1	132.01	19.3
0.044	2.47	7.2	7.11	9.4	12.20	10.8	20.85	12.3	44.24	14.8	81.35	17.3	133.53	19.6
0.045	2.50	7.3	7.19	9.5	12.34	10.9	21.08	12.4	44.74	15.0	82.27	17.5	135.04	19.8
0.046	2.52	7.4	7.27	9.6	12.47	11.0	21.31	12.6	45.24	15.2	83.18	17.7	136.54	20.0
0.047	2.55	7.5	7.35	9.7	12.61	11.1	21.54	12.7	45.73	15.3	84.08	17.9	138.01	20.2
0.048	2.58	7.5	7.43	9.8	12.74	11.2	21.77	12.8	46.21	15.5	84.97	18.1	139.47	20.4
0.049	2.60	7.6	7.51	9.9	12.87	11.4	22.00	13.0	46.69	15.7	85.85	18.2	140.92	20.6
0.050	2.63	7.7	7.59	10.0	13.00	11.5	22.22	13.1	47.16	15.8	86.72	18.4	142.35	20.9
0.051	2.66	7.8	7.66	10.1	13.13	11.6	22.44	13.2	47.63	16.0	87.58	18.6	143.76	21.1
0.052	2.68	7.8	7.73	10.2	13.26	11.7	22.66	13.4	48.10	16.1	88.44	18.8	145.17	21.3
0.053	2.71	7.9	7.81	10.3	13.39	11.8	22.88	13.5	48.56	16.3	89.28	19.0	146.56	21.5
0.054	2.73	8.0	7.88	10.4	13.51	11.9	23.09	13.6	49.01	16.4	90.12	19.1	147.93	21.7
0.055	2.76	8.1	7.95	10.5	13.64	12.0	23.31	13.7	49.47	16.6	90.95	19.3	149.30	21.9
0.056	2.78	8.1	8.03	10.6	13.76	12.1	23.52	13.9	49.91	16.7	91.77	19.5	150.65	22.1
0.057	2.81	8.2	8.10	10.7	13.88	12.2	23.73	14.0	50.38	16.9	92.59	19.7	151.99	22.3
0.058	2.83	8.3	8.17	10.8	14.00	12.3	23.93	14.1	50.80	17.0	93.40	19.8	153.31	22.5
0.059	2.86	8.4	8.24	10.9	14.12	12.5	24.14	14.2	51.23	17.2	94.20	20.0	154.63	22.7
0.060	2.88	8.4	8.31	11.0	14.24	12.6	24.34	14.4	51.67	17.3	94.99	20.2	155.93	22.8
0.061	2.91	8.5	8.38	11.1	14.36	12.7	24.54	14.5	52.09	17.5	95.78	20.4	157.23	23.0
0.062	2.93	8.6	8.44	11.2	14.48	12.8	24.74	14.6	52.52	17.6	96.56	20.5	158.51	23.2
0.063	2.95	8.6	8.51	11.2	14.60	12.9	24.94	14.7	52.94	17.8	97.34	20.7	159.79	23.4
0.064	2.98	8.7	8.58	11.3	14.71	13.0	25.14	14.8	53.36	17.9	98.11	20.8	161.05	23.6
0.065	3.00	8.8	8.65	11.4	14.83	13.1	25.34	14.9	53.78	18.0	98.87	21.0	162.30	23.8
0.066	3.02	8.8	8.71	11.5	14.94	13.2	25.53	15.1	54.19	18.2	99.63	21.2	163.55	24.0
0.067	3.04	8.9	8.78	11.6	15.05	13.3	25.72	15.2	54.60	18.3	100.38	21.3	164.78	24.1
0.068	3.07	9.0	8.84	11.7	15.16	13.4	25.91	15.3	55.00	18.5	101.13	21.5	166.00	24.3
0.069	3.09	9.0	8.91	11.8	15.27	13.5	26.10	15.4	55.41	18.6	101.87	21.6	167.22	24.5
0.070	3.11	9.1	8.97	11.9	15.38	13.6	26.29	15.5	55.81	18.7	102.61	21.8	168.43	24.7
0.071	3.13	9.2	9.04	11.9	15.49	13.7	26.48	15.6	56.20	18.9	103.34	22.0	169.63	24.9
0.072	3.16	9.2	9.10	12.0	15.60	13.8	26.67	15.7	56.60	19.0	104.08	22.1	170.82	25.0
0.073	3.18	9.3	9.16	12.1	15.71	13.9	26.85	15.8	56.99	19.1	104.78	22.3	172.00	25.2
0.074	3.20	9.4	9.23	12.2	15.82	13.9	27.03	15.9	57.38	19.2	105.50	22.4	173.17	25.4
0.075	3.22	9.4	9.29	12.3	15.92	14.0	27.22	16.1	57.76	19.4	106.21	22.6	174.34	25.5
0.076	3.24	9.5	9.35	12.4	16.03	14.1	27.40	16.2	58.15	19.5	106.91	22.7	175.50	25.7
0.077	3.26	9.5	9.41	12.4	16.14	14.2	27.58	16.3	58.53	19.6	107.61	22.9	176.65	25.9
0.078	3.29	9.6	9.47	12.5	16.24	14.3	27.76	16.4	58.91	19.8	108.31	23.0	177.79	26.0
0.079	3.31	9.7	9.53	12.6	16.34	14.4	27.93	16.5	59.28	19.9	109.00	23.2	178.93	26.2
0.080	3.33	9.7	9.59	12.7	16.45	14.5	28.11	16.6	59.66	20.0	109.69	23.3	180.08	26.4
0.081	3.35	9.8	9.65	12.8	16.55	14.6	28.28	16.7	60.03	20.1	110.37	23.5	181.18	26.5
0.082	3.37	9.8	9.71	12.8	16.65	14.7	28.46	16.8	60.40	20.3	111.05	23.6	182.29	26.7
0.083	3.39	9.9	9.77	12.9	16.75	14.8	28.63	16.9	60.77	20.4	111.73	23.7	183.40	26.9
0.084	3.41	10.0	9.83	13.0	16.85	14.9	28.80	17.0	61.13	20.5	112.40	23.9	184.50	27.0
0.085	3.43	10.0	9.89	13.1	16.95	15.0	28.97	17.1	61.49	20.6	113.07	24.0	185.60	27.2
0.086	3.45	10.1	9.95	13.1	17.05	15.0	29.14	17.2	61.86	20.7	113.73	24.2	186.69	27.4
0.087	3.47	10.1	10.00	13.2	17.15	15.1	29.31	17.3	62.21	20.9	114.39	24.3	187.77	27.5
0.088	3.49	10.2	10.08	13.3	17.25	15.2	29.48	17.4	62.57					