DETENTION BASIN OUTLET STRUCTURE DESIGN

MHFD-Detention,	Version 4.04	(February 2021
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ROADWAY	FROM STA	TO STA	PROPOSED SLOPE (%)	SIDE	SIDE SLOPE	CHANNEL DEPTH (FT)	FRICTION FACTOR	BASIN	Q100 FLOW (CFS)	DITCH FLOW % OF BASIN	DITCH FLOW (CFS)	Q100 DEPTH (FT)	Q100 VELOCITY (FT/S)	DITCH LINING	CHANNEL XSECTION
ALAMAR WAY	1008+50	1010+50	5.38%	LEFT	4:1/3:1	3	0.04	G2B	9.6	50%	4.8	0.6	3.8	GRASS	
ALAMAR WAY	1008+50	1010+50	5.32%	RIGHT	4:1/3:1	3	0.04	A3A & A2B	46.1	100%	46.1	1.4	6.6	GRASS/TRM	SWALE A3A
ALAMAR WAY	1013+50	1014+50	4.45%	RIGHT	4:1/3:1	3	0.04	G2B	9.6	20%	1.9	0.4	2.8	GRASS	
ALAMAR WAY	1014+50	1017+00	5.45%	RIGHT	4:1/3:1	3	0.04	G2B	9.6	10%	1.0	0.3	2.6	GRASS	
ALAMAR WAY	1014+50	1017+00	5.16%	LEFT	4:1/3:1	3	0.04	A3A	25.8	25%	6.5	0.7	4.0	GRASS	
ALAMAR WAY	1018+50	1022+00	4.17%	LEFT	4:1/3:1	3	0.04	G1	40.1	25%	10.0	0.8	4.1	GRASS	
ALAMAR WAY	1022+00	1027+00	3.92%	RIGHT	4:1/3:1	3	0.04	H4	73.6	10%	7.4	0.8	3.7	GRASS	
ALAMAR WAY	1022+00	1027+00	3.71%	LEFT	4:1/3:1	3	0.04	G1	40.1	25%	10.0	0.9	3.9	GRASS	
ALAMAR WAY	1032+00	1035+00	2.04%	LEFT	4:1/3:1	3	0.04	H1	33.0	10%	3.3	0.6	2.4	GRASS	
ALAMAR WAY	1035+00	1045+00	5.88%	RIGHT	4:1/3:1	3	0.04	H6B	57.1	10%	5.7	0.6	4.1	GRASS	
ALAMAR WAY	1035+00	1045+00	5.79%	LEFT	4:1/3:1	3	0.04	H1 & H2	98.2	15%	14.7	0.9	5.1	GRASS	
ALAMAR WAY	1048+00	1051+00	3.45%	LEFT	4:1/3:1	3	0.04	H2	65.2	25%	16.3	0.9	5.3	GRASS	
ALAMAR WAY	1051+00	1054+00	7.02%	RIGHT	4:1/3:1	3	0.04	H6B	57.1	10%	5.7	0.6	4.4	GRASS	
ALAMAR WAY	1051+00	1054+00	6.27%	LEFT	4:1/3:1	3	0.04	H2	65.2	10%	6.5	0.7	4.3	GRASS	
ALAMAR WAY	1064+00	END	3.66%	RIGHT	4:1/3:1	3	0.04	H7A	27.1	10%	2.7	0.5	2.8	GRASS	
ALAMAR WAY	1064+00	END	3.36%	LEFT	4:1/3:1	3	0.04	I1 &H3B	27.2	44%	12.0	0.9	4.0	GRASS	SWALE H3B
TWINKLING STAR LANE	2000+00	2004+00	3.61%	RIGHT	4:1/3:1	3	0.04	E8	25.6	35%	9.0	0.8	3.8	GRASS	
TWINKLING STAR LANE	2000+00	2004+00	3.40%	LEFT	4:1/3:1	3	0.04	D6	28.1	25%	7.0	0.8	3.5	GRASS	
TWINKLING STAR LANE	2004+00	2007+00	6.14%	RIGHT	4:1/3:1	3	0.04	E8	25.6	35%	9.0	0.7	4.6	GRASS	
TWINKLING STAR LANE	2013+50	2023+00	7.84%	RIGHT	4:1/3:1	3	0.04	H8A & I1 &H3B	38.4	82%	31.5	1.1	7.0	GRASS/TRM	SWALE I1
TWINKLING STAR LANE	2013+50	2023+00	8.17%	LEFT	4:1/3:1	3	0.04	H7A	27.1	100%	27.1	1.1	6.8	GRASS/TRM	
TWINKLING STAR LANE	2023+00	2028+00	1.14%	LEFT	4:1/3:1	3	0.04	11	20.3	50%	10.2	1.1	2.6	GRASS	

ROADSIDE DITCH SUMMARY TABLE



Update GEC plans to reflect the TRM installation. The road sections indicated in the table does not reflect installation of TRM.

Or per discussion with the design engineer the TRM is not being installed with early grading GEC. If so, update the drainage report to indicate the TRM will be installed with the final GEC.

IEMPORART SEDIMENT DASIN

(SEE N

EROSION CONTROL BLANKET (SEE NOTE 4)

CONCEPTING AND MULICIPAL