



# DITCH ANALYSIS

PID : 110563    Date : 04/05/2023    Project : HAM-74

Location : Race Road SB

Description : Race Road Ditch SB - 1

Designer : Fishbeck

Rainfall Area : C

Allowable Shears

	<b>Seed:</b>	0.40	<b>Jute Mat:</b>	0.45	<b>Temporary Mat:</b>	1.00
<b>Permanent Mat</b>	<b>Type 1:</b>	3.00	<b>Type 2:</b>	4.00	<b>Type 3:</b>	5.00
<b>RCP</b>	<b>Type B:</b>	6.00				

(\*) Warning: Grade is steeper than allowable.

If value is parantheses, design parameters have been exceeded. - See user manual.

STATION BEGIN	STATION END	SIDE	LENGTH (ft.)	RADIUS WIDTH (ft.)	IN SLOPE (ft./ft.)	BACK SLOPE (ft./ft.)	GRADE (ft./ft.)	AREA (acres)	AREA SUM (acres)	RUNOFF COEFF.	CA (Sum)	PROTECT TYPE	RAIN INT. (in./hr.)	STORM FREQ. (yrs.)	MANN. COEFF.	TIME FLOW (min.)	VEL. FLOW (fps.)	SHEAR (lbs./ sq.ft.)	DESIGN FLOW (cfs.)	DEPTH FLOW (ft.)	WIDTH FLOW (ft.)
21+85	21+50	L	35.00	2.00	3.00	3.00	0.0429	0.64	0.64	0.61	0.39	Seed	3.98	5	0.030	15.19	3.01	0.53	1.55	0.20	3.19
												Jute Mat	3.97	5	0.040	15.24	2.46	0.62	1.55	0.23	3.40
												Temp. Mat	3.97	5	0.040	15.24	2.46	0.62	1.55	0.23	3.40
												Temp. Mat	4.44	10	0.040	15.23	2.54	0.66	1.73	0.25	3.49
21+50	20+81	L	69.00	2.00	3.00	3.00	0.4023*	0.10	0.74	0.61	0.45	Seed	3.95	5	0.030	15.41	6.67	2.87	1.78	0.11	2.68
												Jute Mat	3.95	5	0.040	15.44	5.52	3.37	1.78	0.13	2.81
												Temp. Mat	3.95	5	0.040	15.44	5.52	3.37	1.78	0.13	2.81
												Perm, Type 1	3.95	5	0.040	15.44	5.52	3.37	1.78	0.13	2.81
												Perm, Type 2	3.95	5	0.040	15.44	5.52	3.37	1.78	0.13	2.81
												Perm, Type 2	4.41	10	0.040	15.43	5.74	3.59	1.99	0.14	2.86