



# DITCH ANALYSIS

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

Location : Race Road NB

Description : Race Road Ditch NB - 2

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.)
22+85	21+49	R	136.00	2.00	3.00	3.00	0.0862	0.81	0.81	0.52	0.42	Seed	3.93	5	0.030	15.58	3.90	0.91	1.65	0.17	3.02
												Jute Mat	3.91	5	0.040	15.71	3.19	1.07	1.65	0.20	3.19
												Temp. Mat	3.91	5	0.040	15.71	3.19	1.07	1.65	0.20	3.19
												Perm, Type 1	3.91	5	0.040	15.71	3.19	1.07	1.65	0.20	3.19
												Perm, Type 1	4.38	10	0.040	15.68	3.30	1.14	1.85	0.21	3.27
21+49	20+81	R	68.00	2.00	3.00	3.00	0.3662*	0.07	0.88	0.70	0.47	Seed	3.89	5	0.030	15.88	6.53	2.72	1.83	0.12	2.71
												Jute Mat	3.89	5	0.040	15.92	5.41	3.19	1.83	0.14	2.84
												Temp. Mat	3.89	5	0.040	15.92	5.41	3.19	1.83	0.14	2.84
												Perm, Type 1	3.89	5	0.040	15.92	5.41	3.19	1.83	0.14	2.84
												Perm, Type 2	3.89	5	0.040	15.92	5.41	3.19	1.83	0.14	2.84
												Perm, Type 2	4.35	10	0.040	15.88	5.61	3.41	2.05	0.15	2.89