



DITCH ANALYSIS

PID : 116570 **Date :** 07/23/2025 **Project :** ERIE-US 6-CORRIDOR **Location :** RAMP C
Description : Ditch From Sta. 740+69 to Sta. 743+75 **Designer :** WK

Rainfall Area : A

Allowable Shears

	Seed:	0.40	Jute Mat:	0.45	Temporary Mat:	1.00
Permanent Mat	Type 1:	2.00	Type 2:	3.00	Type 3:	5.00
RCP	Type 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.)
740+69	741+75		106.00	6.00	4.00	3.00	0.0192	0.35	0.35	0.50	0.17	Seed	3.49	5	0.030	16.42	1.23	0.09	0.60	0.08	6.55
												Seed	3.92	10	0.040	16.63	1.07	0.12	0.68	0.10	6.70
741+74	Concent							0.17		0.90	0.33					15.00					
741+75	743+75	L	200.00	6.00	6.00	3.00	0.0108	0.54	1.06	0.50	0.60	Seed	3.27	5	0.030	18.53	1.54	0.12	1.95	0.19	7.67
												Seed	3.65	10	0.040	19.09	1.33	0.16	2.18	0.23	8.09