



DITCH ANALYSIS

PID : 116570 **Date :** 07/22/2025 **Project :** ERIE-US 6-CORRIDOR **Location :** RAMP B
Description : Ditch From Sta. 810+67 to Sta. 812+64 **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.)
810+67	811+89	R	122.00	4.00	3.00	3.00	0.0313	0.17	0.17	0.50	0.08	Seed	3.46	5	0.030	16.63	1.24	0.11	0.29	0.06	4.34
												Seed	3.90	10	0.040	16.85	1.08	0.14	0.33	0.07	4.44
811+89	Concent							0.11		0.90	0.18					15.00					
811+89	812+65	R	76.00	4.00	3.00	3.00	0.0326	0.20	0.48	0.50	0.28	Seed	3.39	5	0.030	17.27	1.96	0.23	0.96	0.11	4.68
												Seed	3.81	10	0.040	17.58	1.71	0.29	1.08	0.14	4.85