



DITCH ANALYSIS

PID : 116570 **Date :** 07/23/2025 **Project :** ERIE-US 6-CORRIDOR **Location :** RAMP D

Description : Ditch From Sta. 782+00 to Sta.780+00 and Sta 791+80 to Sta 790+00

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.)
781+68	Concent							0.23		0.89	0.20						10.00				
780+60	Concent							0.23		0.83	0.40						10.00				
782+00	780+00	L	200.00	6.00	4.00	3.00	0.0418	0.22	0.68	0.50	0.51	Seed	3.49	5	0.030	16.41	2.33	0.31	1.76	0.12	6.83
												Seed	3.93	10	0.040	16.61	2.02	0.39	1.98	0.15	7.05
791+80	790+00	L	180.00	6.00	4.00	3.00	0.0536	0.18	0.86	0.50	0.60	Seed	3.37	5	0.030	17.53	2.65	0.39	2.00	0.12	6.83
												Seed	3.78	10	0.040	17.90	2.29	0.50	2.25	0.15	7.05
790+00	Concent							0.10		0.90	0.69						10.00				