



DITCH ANALYSIS

PID : 116570 **Date :** 06/26/2025 **Project :** ERIE-US 6-CORRIDOR **Location :** US 6 Left

Description : Ditch from Sta 1783+00 to 1784+90

Designer : HRT

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.)
1783+00	1784+80	R	180.00	4.00	4.00	4.00	0.0025	1.02	1.02	0.50	0.51	Seed	3.33	5	0.030	17.92	0.99	0.05	1.69	0.32	6.58
												Seed	3.72	10	0.040	18.45	0.84	0.06	1.89	0.40	7.20
1784+90	1784+80	R	10.00	4.00	4.00	4.00	0.0050	0.09	1.11	0.57	0.56	Seed	3.31	5	0.030	18.05	1.30	0.09	1.86	0.28	6.23
												Seed	3.70	10	0.040	18.60	1.11	0.11	2.08	0.35	6.78