



DITCH ANALYSIS

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

Description : Ditch from Sta 1781+89 to Sta 1784+20

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.)
1781+25	1784+00	L	211.00	3.00	4.00	4.00	0.0027	0.42	0.42	0.77	0.32	Seed	3.25	5	0.030	18.67	0.92	0.05	1.04	0.28	5.21
												Seed	3.63	10	0.040	19.33	0.78	0.06	1.16	0.34	5.73
1784+20	1784+00	L	20.00	3.00	4.00	4.00	0.0515	0.05	0.46	0.80	0.36	Seed	3.24	5	0.030	18.80	2.59	0.41	1.16	0.13	4.02
												Jute Mat	3.24	5	0.040	18.83	2.14	0.48	1.16	0.15	4.20
												Temp. Mat	3.24	5	0.040	18.83	2.14	0.48	1.16	0.15	4.20
												Temp. Mat	3.61	10	0.040	19.48	2.22	0.51	1.29	0.16	4.28