



DITCH ANALYSIS

PID : 116570 **Date :** 07/03/2025 **Project :** ERIE-US 6-CORRIDOR **Location :** Rye Beach Left & SR 2 EB Exit Left
Description : Ditch from Rye Beach Sta 145+96 to Ramp D Sta 789+55 **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.)
145+36	144+96	L	40.00	6.00	4.00	4.00	0.0963	0.20	0.20	0.50	0.10	Seed	3.60	5	0.030	15.40	1.64	0.22	0.37	0.04	6.29
												Seed	4.07	10	0.040	15.46	1.46	0.27	0.41	0.05	6.37
791+81	789+55	L	226.00	6.00	4.00	4.00	0.0473	0.55	0.76	0.50	0.38	Seed	3.41	5	0.030	17.12	2.15	0.28	1.29	0.09	6.75
												Seed	3.83	10	0.040	17.44	1.87	0.35	1.45	0.12	6.96