



DITCH ANALYSIS

PID : 116570 **Date :** 06/25/2025 **Project :** ERIE-US 6-CORRIDOR **Location :** US 6 Right

Description : Ditch from Sta 1766+00 to Sta 1766+30

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.)
1766+00	1766+15	R	17.00	4.00	4.00	4.00	0.1947 *	0.14	0.14	0.62	0.09	Seed	3.64	5	0.030	15.13	2.21	0.42	0.32	0.03	4.28
												Jute Mat	3.63	5	0.040	15.15	1.91	0.49	0.32	0.04	4.32
												Temp. Mat	3.63	5	0.040	15.15	1.91	0.49	0.32	0.04	4.32
												Temp. Mat	4.11	10	0.040	15.14	1.96	0.54	0.36	0.04	4.35
1766+30	1766+15	R	15.00	4.00	4.00	4.00	0.2267 *	0.10	0.24	0.59	0.15	Seed	3.62	5	0.030	15.23	2.90	0.63	0.54	0.04	4.35
												Jute Mat	3.62	5	0.040	15.25	2.43	0.74	0.54	0.05	4.42
												Temp. Mat	3.62	5	0.040	15.25	2.43	0.74	0.54	0.05	4.42
												Temp. Mat	4.10	10	0.040	15.24	2.55	0.80	0.61	0.06	4.45