

WATERWAY INFORMATION

rainage Are	a = 2.0	mi²		w Grade w Grade				© Sta. © Sta.		
lood	Freq.	Q	Opening Sq. Ft.		Nat.	Vat. Head -		Headwater El.		
1000	Yr.	C.F.S.	Exist.	Prop.	H.W.E.	Exist.	Prop.	Exist.	Prop.	
	10	409	93	88	585.6	1.6	1.6	587.2	587.2	
esign	50	634	107	101	586.6	2.4	2.4	589.0	589.0	
ase	100	732	113	105	587.0	2.7	2.7	589.7	589.7	
vertopping										
ax, Calc.	500	961	125	116	588.0	3,5	3.5	591.5	591.5	
Yr. velocity	through	Exist.	Culvert =	4.4 fps.						

10 Yr. velocity through Prop. Culvert = 4.6 fps, Max. Recorded H.W.E. = 591.0 July, 1957

	STATION	SKEW
Drain	2+54.97	N.A.
e	3+01.56	92°28′59"
etration	3+03.00	N.A.
n Drain	3+23.00	N.A.
	3+26.45	102°51′18"

LOCATION SKETCH							
GENERAL PLAN & ELEVATION							
IL RT 171 OVER MILNE CREEK							
<u>F.A.P. RT. 577</u>							
SECTION D-T							

WILL COUNTY STA. 61+42.94 STRUCTURE NO. 099-0538

	F.A.P. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
-0538	577	D-T	WILL	44	20
	D-91-265-06		CONTRACT	NO. 6	50B10
HEETS	ILLINOIS FED. AID PROJECT				

SEISMIC DATA

Seismic Performance Category (SPC) = A Horizontal Bedrock Acceleration = 0.04g Site Coefficient = 1.0

LOADING HS20-44

Allow 50 psf for future wearing surface

DESIGN SPECIFICATIONS

2002 AASHTO

DESIGN STRESSES FIELD UNITS

f'c = 3,500 psi fy = 33,000 psi (AASHTO MI67, Steel Plate Liner) fy = 50,000 psi (AASHTO M270, Structural Steel) fy = 60,000 psi (reinforcement)

PRECAST UNITS

- f'c = 5,000 psi
- fy = 65,000 psi (welded wire fabric) fy = 60,000 psi (reinforcement)

