



STA 1078+14  
 PR PIPE CULVERT CL A, TY 2, 60", L = 141'  
 W/ DROP BOX #1 1078+20, 65.0' RT TO  
 GRATED CULVERT END SECTIONS 60" 1078+07.40, 75.4' LT  
 USFL = 769.83; DSFL = 769.13  
 SLOPE = 0.50%; SKEW = 5°

STA 1078+14

DRAINAGE AREA = 56.0 ACRES				
EXISTING LOW GRADE ELEVATION: 774.70 FT. @ 1078+01				
PROPOSED LOW GRADE ELEVATION: 774.70 FT. @ 1078+01				
FLOOD YEAR	FREQUENCY YEAR	DISCHARGE CFS	HEADWATER ELEV. (FT)	
			EXISTING	PROPOSED
TEN-YEAR	10	52	772.61	773.18
DESIGN	50	72	773.22	773.77
BASE	100	83	773.52	774.10
QVT (PROPOSED)	304	104	-	774.70
MAX CALC	500	115	774.31	-

10-YEAR VELOCITY THROUGH EXISTING CULVERT= 10.2 FPS  
 10-YEAR VELOCITY THROUGH PROPOSED CULVERT= 8.1 FPS



FILE NAME =	USER NAME = Elgin 110	DESIGNED - MJS	REVISED -
...load sheets\200793PLN13.dgn		DRAWN - RMH	REVISED -
		CHECKED - RLH	REVISED -
		DATE - APRIL 30, 2013	REVISED -

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

<b>ROADWAY PLANS</b>			
<b>IL 173 FROM ALPINE ROAD TO I-90</b>			
SCALE: 1"=20'	SHEET NO. OF SHEETS	STA. 1078+00 TO STA. 1084+00	

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
303	129R	WINNEBAGO	968	158
			CONTRACT NO. 64988	
ILLINOIS FED. AID PROJECT				

**THE UPCHURCH GROUP, INC.**