



STA 1073+16

DRAINAGE AREA = 7.0 ACRES  
 EXISTING LOW GRADE ELEVATION: 767.78 FT. @ 1072+52  
 PROPOSED LOW GRADE ELEVATION: 769.00 FT. @ 1072+52

FLOOD YEAR	FREQUENCY	DISCHARGE CFS	HEADWATER ELEV. (FT) EXISTING	HEADWATER ELEV. (FT) PROPOSED
OVT (EXISTING)	-	0	767.78	-
TEN-YEAR	10	15	-	768.84
DESIGN	50	21	-	768.94
BASE/OVT(P)	100	24	-	769.00

10-YEAR VELOCITY THROUGH EXISTING CULVERT= NA FPS  
 10-YEAR VELOCITY THROUGH PROPOSED CULVERT= 2.0 FPS

STA 1074+34.02 @ IL 173 =  
 STA 250+42.00 @ PERRYVILLE ROAD

CONCRETE ISLAND (SPECIAL)  
 W/ BRICK PAVERS, TYP

STA 1075+47  
 PR PIPE CULVERT CL A, TY 2 EQRS 48", L = 164'  
 W/ GRATED CULVERT END SECTIONS EQRS 48"  
 82.0' RT TO 81.5' LT,  
 USFL = 769.59; DSFL = 768.77  
 SLOPE = 0.50%; SKEW = 0.0°

STA 1075+47

DRAINAGE AREA = 20.0 ACRES  
 EXISTING LOW GRADE ELEVATION: 773.00 FT. @ 247+92  
 PROPOSED LOW GRADE ELEVATION: 773.00 FT. @ 247+92

FLOOD YEAR	FREQUENCY	DISCHARGE CFS	HEADWATER ELEV. (FT) EXISTING	HEADWATER ELEV. (FT) PROPOSED
TEN-YEAR	10	32	772.83	771.52
OVT (EXISTING)	15	35	773.00	-
DESIGN	50	45	-	771.99
BASE	100	52	-	772.21
MAX	500	72	-	772.78

10-YEAR VELOCITY THROUGH EXISTING CULVERT= 6.6 FPS  
 10-YEAR VELOCITY THROUGH PROPOSED CULVERT= 6.6 FPS

MATCH LINE STA 1072+00

MATCH LINE STA 1078+00

FILE NAME = ...load sheets\200793PLN12.dgn  
**THE UPCHURCH GROUP, INC.**

USER NAME = Elgin 110	DESIGNED - MJS	REVISED -
PLOT SCALE = 40.0000' / IN.	DRAWN - RMH	REVISED -
PLOT DATE = 5/3/2013 8:55:02 AM	CHECKED - RLH	REVISED -
	DATE - APRIL 30, 2013	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**ROADWAY PLANS**  
**IL 173 FROM ALPINE ROAD TO I-90**  
 SCALE: 1"=20' SHEET NO. OF SHEETS STA. 1072+00 TO STA. 1078+00

F.A.P. RTE. 303	SECTION 129R	COUNTY WINNEBAGO	TOTAL SHEETS 968	SHEET NO. 157
			CONTRACT NO. 64988	
ILLINOIS FED. AID PROJECT				