

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

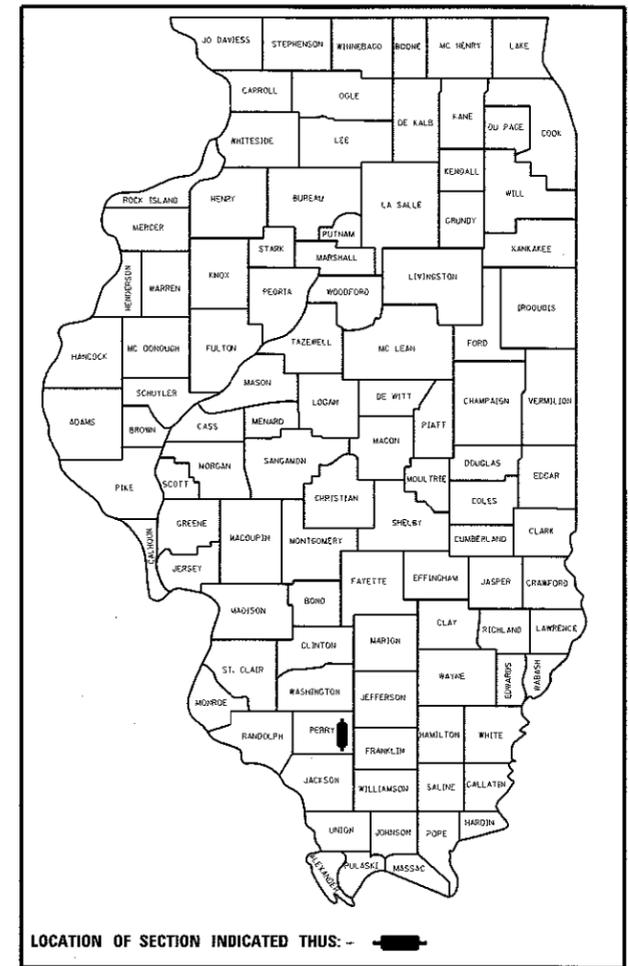
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
322	7B-1	PERRY	8	1
ILLINOIS			CONTRACT NO. 78591	

FOR INDEX OF SHEETS, SEE SHEET NO. 3  
FOR SUMMARY OF QUANTITIES, SEE SHEET NO. 4

**PROPOSED  
HIGHWAY PLANS**

FAP 322 ROUTE US 51  
SECTION 7B-1  
PROJECT STP-Q375(582)  
CULVERT REPLACEMENT  
PERRY COUNTY

D-99-044-17



**TRAFFIC DATA**

**ADT**                      **% TRUCKS**  
1,990 (2017)                      0.15%

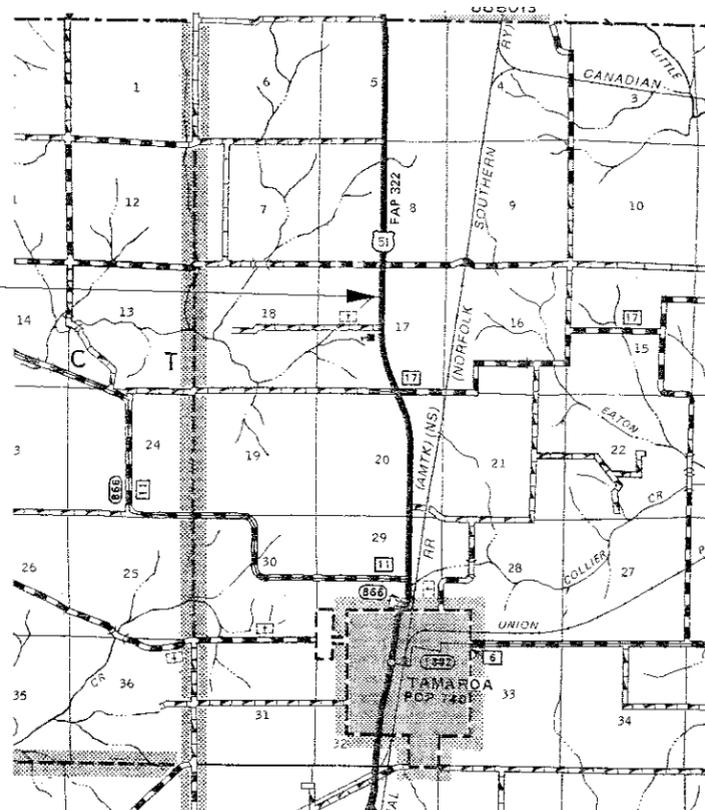
C-99-044-17

R1W

**TOWNSHIPS**

TAMAROA

SN 073-7010



T4S

POSTED SPEED : 55 MPH

J.U.L.I.E.  
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION  
1-800-892-0123  
OR 811

PROJECT ENGINEER CHARLES STEIN  
PROJECT DESIGNER LISA PRITCHETT

CONTRACT NO. 78591

GROSS LENGTH = 40.0 FT. = 0.008 MILES  
NET LENGTH = 40.0 FT. = 0.008 MILES

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SUBMITTED August 11 20 17  
Jeffrey 2 Keen  
REGION FIVE ENGINEER

Oct 13 20 17  
Mawson M. Addis P.E.  
ENGINEER OF DESIGN AND ENVIRONMENT

Oct 13 20 17  
Kevin [Signature]  
DIRECTOR OF PROGRAM DEVELOPMENT

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OF THE STATE OF ILLINOIS

Prepared By: *J. E. [Signature]*  
DISTRICT STUDIES & PLANS ENGINEER

Examined By: *Nancy [Signature]*  
DISTRICT LAND ACQUISITION ENGINEER

Examined By: *[Signature]*  
DISTRICT PROGRAM DEVELOPMENT ENGINEER

Examined By: *[Signature]*  
DISTRICT OPERATIONS ENGINEER

Examined By: *[Signature]*  
DISTRICT PROJECT IMPLEMENTATION ENGINEER

Examined By: *[Signature]*  
DISTRICT CONSTRUCTION ENGINEER

Examined By: *[Signature]*  
DISTRICT MATERIALS ENGINEER

FILE NAME *	USER NAME * grilchettl	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>SIGNATURE SHEET</b>	F.A.P. RATE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
pw:\IL084EBID\INTEG\illinois.gov\PW\IGT\Docume	9\DOT\Offices\District 9\Projects\7859\CAU\ata\CAU	DATA\9\StaB\Jyp_Sch_T.as_GeopakElements.dg	REVISED -			322	7B-1	PERRY	8	2	
PLOT SCALE = 100.0000 / in	CHECKED -	REVISED -	SCALE:			SHEET	OF	SHEETS	STA.	TO STA.	CONTRACT NO. 78591
SMODEL\NAMES	PLOT DATE = 1/27/2017	DATE -	REVISED -			ILLINOIS   FED. AID PROJECT					

## INDEX OF SHEETS

SHEET NO.	DESCRIPTION
1	COVER SHEET
2	SIGNATURE SHEET
3	INDEX OF SHEETS, STANDARDS, GENERAL NOTES, COMMITMENTS
4 - 5	SUMMARY OF QUANTITIES
6	TYPICAL
7	PLAN VIEW OF CULVERT 073-7010
8	FINAL SECTION

## STANDARDS

000001-06	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
442201-03	CLASS C AND D PATCHES
542011-02	CONCRETE END SECTIONS FOR ELLIPTICAL PIPE CULVERTS, 15" THRU 72" EQUIVALENT DIAMETER
542311-06	TRAVERSABLE PIPE GRATE
701001-02	OFF-ROAD OPERATIONS, 2L, 2W, MORE THAN 15' AWAY
701006-05	OFF-ROAD OPERATIONS, 2L, 2W, 15' TO 24" FROM PAVEMENT EDGE
701201-04	LANE CLOSURE, 2L, 2W, DAY ONLY, FOR SPEEDS • 45 MPH
701301-04	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
701311-03	LANE CLOSURE, 2L, 2W, MOVING OPERATIONS - DAY ONLY
701901-06	TRAFFIC CONTROL DEVICES
780001-05	TYPICAL PAVEMENT MARKINGS
BLR 21-9	TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES FOR CONSTRUCTION ON RURAL LOCAL HIGHWAYS

## GENERAL NOTES

QUANTITIES SHOWN IN THE PLANS FOR PATCHING ARE ESTIMATES. THE ACTUAL AMOUNT OF PATCHING REQUIRED WILL BE DETERMINED BY THE ENGINEER.

FACTORS USED FOR ESTIMATING PLAN QUANTITIES ARE AS FOLLOWS AND SHALL NOT BE USED FOR THE BASIS OF FINAL QUANTITIES:

ALL AGGREGATE 2.05 TONS/CU. YD.

RIPRAP 1.50 TONS/CU. YD.

EARTHWORK COMPACTION SHALL BE TO THE SATISFACTION OF THE ENGINEER.

AT ALL LOCATIONS WHERE THE PROPOSED HOT MIX ASPHALT OR CONCRETE PAVEMENT JOINS AN EXISTING HOT MIX ASPHALT OR CONCRETE PAVEMENT, A FULL DEPTH SAWED JOINT SHALL BE CONSTRUCTED. THE COST OF THIS JOINT WILL BE INCLUDED IN THE COST OF THE TYPE OF PAVEMENT BEING CONSTRUCTED.

RECLAIMED ASPHALT PAVEMENT (RAP) WILL NOT BE ALLOWED FOR USE AS AGGREGATE IN AGGREGATE SHOULDERS, TYPE B.

THERE ARE NO AVAILABLE WASTE SITES ON THE EXISTING RIGHT OF WAY WITHIN THE PROJECT LIMITS. DISPOSAL WILL BE THE RESPONSIBILITY OF THE CONTRACTOR AND WASTE MUST BE DISPOSED OF IN ACCORDANCE WITH ARTICLE 202.03 OF THE STANDARD SPECIFICATIONS.

REMOVAL OF EXISTING AGGREGATE SHOULDERS SHALL BE INCLUDED IN THE COST OF EARTH EXCAVATION.

A CALCIUM CHLORIDE ACCELERATOR WILL BE ALLOWED FOR CLASS C PATCHES PER ARTICLE 1013.01.

## COMMITMENTS

THE FOLLOWING SHALL BE CONTACTED 3 WEEKS PRIOR TO ANY WORK INVOLVING TRAFFIC CONTROL AND PROTECTION THAT AFFECTS THE PUBLIC AND PRIOR TO THE 21 DAY NOTIFICATION SIGNING:

PERRY COUNTY SHERIFF  
STEVE BAREIS  
618-357-5212

FILE NAME =	USER NAME = pritchettll	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>INDEX OF SHEETS, STANDARDS, GENERAL NOTES, COMMITMENTS</b>	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
pwz\VL084EBID\INTEG.illinois.gov\PWIDOT\Documents\IDOT Offices\District 9\Projects\78591\CADDData\CADs\DRAWN-ShtB-Typ_Sch_GeopakElements.dgn	PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -			322	7B-1	PERRY	8	3	
Default	PLOT DATE = 8/24/2017	DATE -	REVISED -			CONTRACT NO. 78591					
						SCALE:	SHEET	OF	SHEETS	STA.	TO
							ILLINOIS	FED. AID PROJECT			

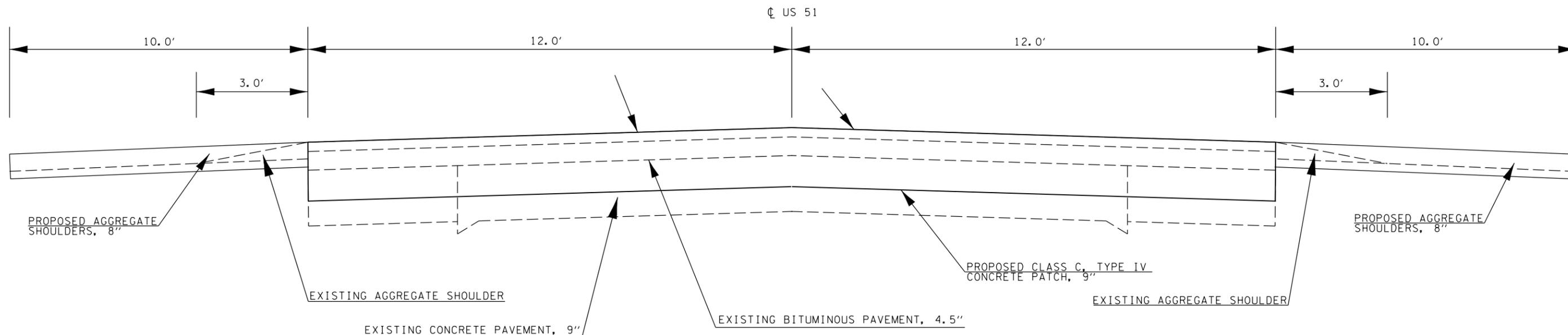
# SUMMARY OF QUANTITIES

COUNTY:	PERRY
ROUTE:	FAP 322
FUNDING:	80% FEDERAL, 20% STATE ✓
LOCATION:	RURAL ✓
	ROADWAY
	0004

CODE NUMBER	ITEM DESCRIPTION	UNIT	
20200100	EARTH EXCAVATION	CU YD	20
20400800	FURNISHED EXCAVATION	CU YD	53
20700220	POROUS GRANULAR EMBANKMENT	CU YD	33
25000200	SEEDING, CLASS 2	ACRE	0.1
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	9
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	9
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	9
25000700	AGRICULTURAL GROUND LIMESTONE	TON	0.2
25100630	EROSION CONTROL BLANKET	SQ YD	484
28100105	STONE RIPRAP, CLASS A3	SQ YD	17
44201347	CLASS C PATCHES, TYPE IV, 9 INCH	SQ YD	56
48101600	AGGREGATE SHOULDERS, TYPE B 8"	SQ YD	47

12





FILE NAME =	USER NAME = pritchettll	DESIGNED -	REVISED -
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	PLOT DATE = 8/24/2017	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>TYPICAL</b>			
SCALE:	SHEET	OF	SHEETS
	STA.	TO	STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
322	7B-1	PERRY	8	6
CONTRACT NO. 78591				
ILLINOIS FED. AID PROJECT				



R. O. W.

PROPOSED CONCRETE END SECTIONS  
STANDARD 542011, 30", 1:3

FLOWLINE ELEVATION AT END SECTION,  
33.4' FEET FROM CENTERLINE, 507.27'

FLOWLINE ELEVATION AT END OF PIPE  
22' FROM CENTERLINE, 507.20'

PROPOSED CONSTRUCTION LIMITS

PROPOSED 24x38 PIPE CULVERT,  
CLASS A, TYPE 1, EQRS 30", 44'

US 51

PROPOSED PROJECT BEGINS  
STA. 600+41.5

PROPOSED PROJECT ENDS  
STA. 600+62.5

EXISTING SN 073-7010  
CULVERT STA. 600+52, 0° SKEW, 0.61%

EXISTING CONCRETE BOX  
CULVERT, 5' x 2'

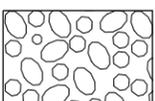
PROPOSED 24x38 PIPE CULVERT,  
CLASS A, TYPE 1, EQRS 30", 44'

FLOWLINE ELEVATION AT END OF PIPE  
22' FROM CENTERLINE, 506.93'

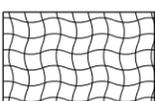
PROPOSED CLASS C PATCH  
21' x 24'



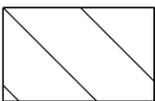
PROPOSED RIPRAP, CLASS A3



PROPOSED EROSION CONTROL  
BLANKET & SEEDING CLASS 2



PROPOSED AGGREGATE SHOULDERS, 8"



PROPOSED CONCRETE END SECTIONS,  
STANDARD 542011, 30", 1:3

FLOWLINE ELEVATION AT END SECTION,  
33.4' FEET FROM CENTERLINE, 506.86'

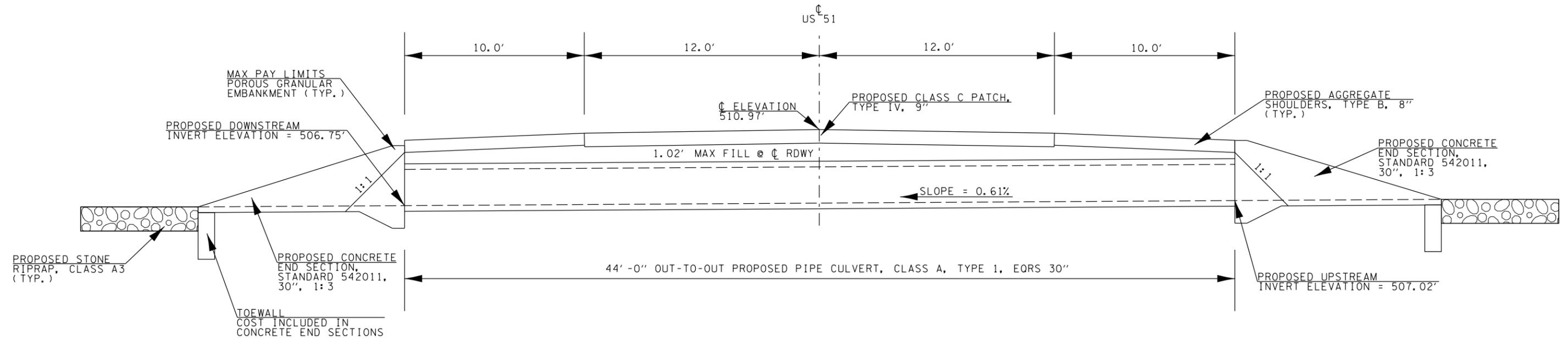
R. O. W.

FILE NAME =	USER NAME = pritchettll	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>PLAN VIEW OF CULVERT 073-7010</b>			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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Default	PLOT DATE = 8/24/2017	DATE -	REVISED -		CONTRACT NO. 78591			ILLINOIS FED. AID PROJECT				
					SCALE:	SHEET	OF	SHEETS	STA.	TO	STA.	

# FINAL SECTION

## HYDRAULIC DATA

DRAINAGE AREA = 0.26 SQ MI  
 DESIGN WATERWAY OPENING = 15.6 SQ FT  
 DESIGN DISCHARGE = 68.50 CFS  
 DESIGN HEADWATER ELEVATION = 510.74 FT  
 100 YEAR DISCHARGE = 81.89 CFS  
 100 YEAR HEADWATER ELEVATION = 510.87 FT



**ELEVATION**  
 (LOOKING SOUTH)

MODEL: Default  
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PLOT SCALE = 100.0000' / in.	DRAWN -	REVISED -
PLOT DATE = 8/24/2017	CHECKED -	REVISED -
	DATE -	REVISED -

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

FINAL SECTION

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
322	7B-1	PERRY	8	8
CONTRACT NO. 78591				
ILLINOIS FED. AID PROJECT				