

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

F.A.P. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
778	4CR-1	HARDIN	12	1
		ILLINOIS	CONTRACT NO. 78652	

FOR INDEX OF SHEETS, SEE SHEET NO. 2

FOR SUMMARY OF QUANTITIES, SEE SHEET NO. 3 - 5

# PROPOSED HIGHWAY PLANS

F.A.P ROUTE 778 (IL 34)  
SECTION 4CR-1  
PROJECT STP-L2IE(882)  
BOX CULVERT REPLACEMENT  
HARDIN COUNTY

C-99-071-18

## TRAFFIC DATA

SN 035-7022 (E)  
2017 ADT = 1700  
WITH 28% TRUCKS  
SPEED LIMIT: 55 MPH

## TOWNSHIP

HARROD

DESIGN DESIGNATION : N/A

COORDINATE SYSTEM : EAST ZONE

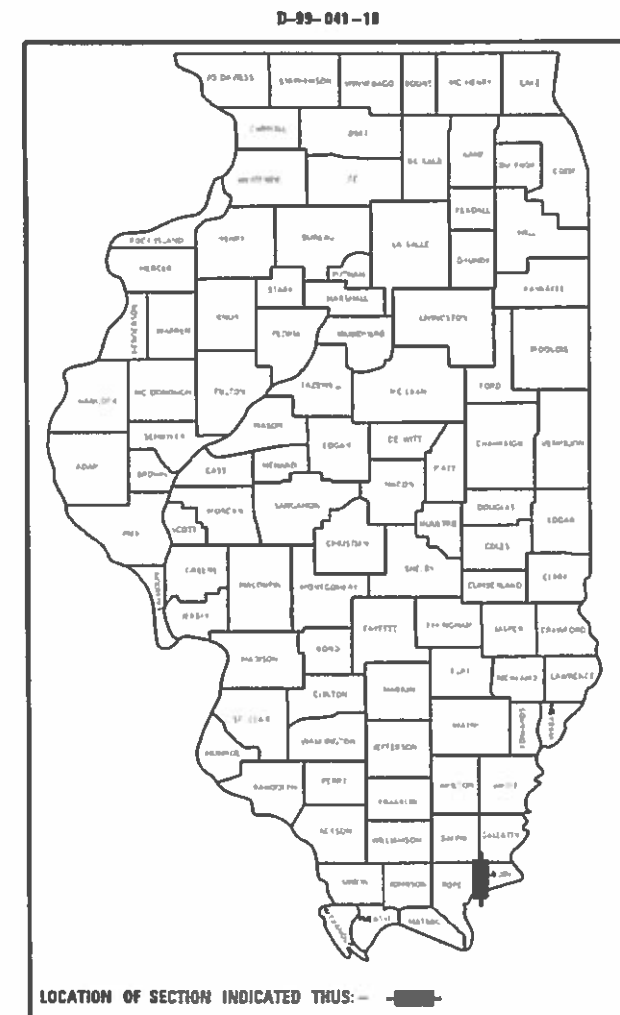
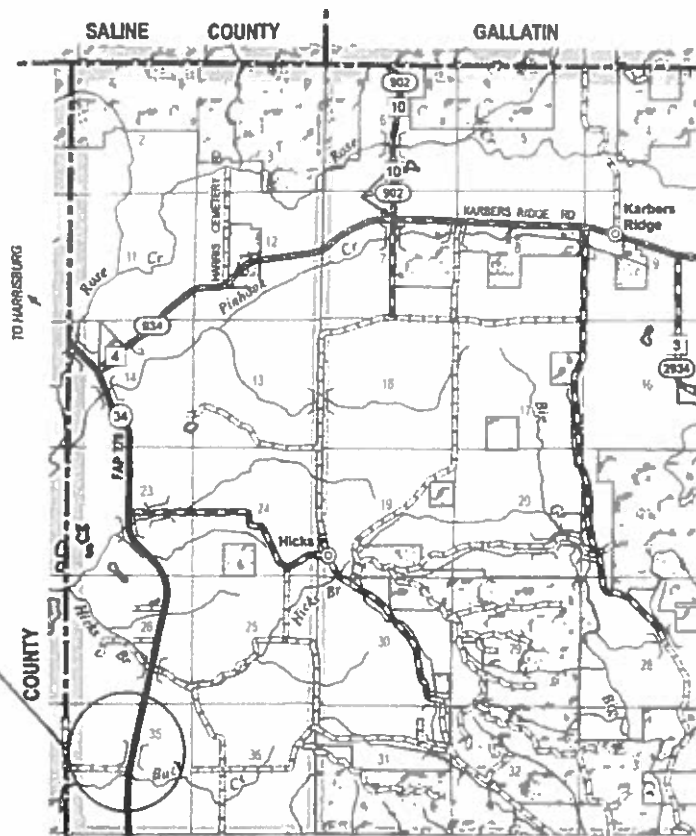
POSTED SPEED : 55 MPH

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

PROJECT ENGINEER: DAVID PICHE  
PROJECT DESIGNER: DAVID WILSON

CONTRACT NO. 78652

REPLACEMENT LOCATION  
SN 035-7022 (E)  
SN 035-7031 (P)  
IL 34 OVER DITCH



LOCATION OF SECTION INDICATED THUS: [shaded rectangle symbol]

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SUBMITTED April 25 2019  
*[Signature]*  
REGION FIVE ENGINEER

June 14 2019  
*[Signature]*  
ENGINEER OF DESIGN AND ENVIRONMENT

June 14 2019  
*[Signature]*  
DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

PRINTED BY THE AUTHORITY  
OF THE STATE OF ILLINOIS

**GENERAL NOTES**

- 1) AT ALL LOCATIONS WHERE EXISTING 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.
- 2) A CALCIUM CHLORIDE ACCELERATOR WILL BE ALLOWED ONLY FOR THE PCC PAVEMENT, 10".
- 3) REMOVAL OF EXISTING AGGREGATE SHOULDERS SHALL BE INCLUDED IN THE COST OF EARTH EXCAVATION.
- 4) 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.

**COMMITMENTS**

NO COMMITMENTS AS OF 05/10/2019

**STANDARDS**

000001-07	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
001001-02	AREAS OF REINFORCEMENT BARS
001006	DECIMAL OF AN INCH AND OF A FOOT
420001-09	PAVEMENT JOINTS
420701-03	PAVEMENT WELDED WIRE REINFORCEMENT
701001-02	OFF-RD OPERATIONS, 2L, 2W, MORE THAN 15' AWAY
701006-05	OFF-RD OPERATIONS, 2L, 2W, 15' TO 24" FROM PAVEMENT EDGE
701201-05	LANE CLOSURE, 2L, 2W, DAY ONLY, FOR SPEEDS ≥ 45 MPH
701901-08	TRAFFIC CONTROL DEVICES
780001-05	TYPICAL PAVEMENT MARKINGS
BLR 21-9	TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES FOR CONSTRUCTION ON RURAL LOCAL HIGHWAYS

**INDEX OF SHEETS**

1	COVER SHEET
2	GENERAL NOTES, COMMITMENTS, INDEX OF SHEETS, STANDARDS, AND SIGNATURE SHEET
3-5	SUMMARY OF QUANTITIES
6	SCHEDULES
7	GENERAL PLAN SN 035-7031 (P)
8	DETAIL AND FINAL SECTION SN 035-7031 (P)
9	LIMITS OF POROUS GRANULAR EMBANKMENT AND SECTION WITHIN PAVEMENT REMOVAL SN 035-7031 (P)
10-11	CAST-IN-PLACE APRON END SECTION DETAILS SN 035-7031 (P)
12	DISTRICT STANDARDS

Prepared By:	<i>Charles Stein</i> DISTRICT STUDIES & PLANS ENGINEER
Examined By:	<i>Nancy Hill</i> DISTRICT LAND ACQUISITION ENGINEER
Examined By:	<i>Connie Miller</i> DISTRICT PROGRAM DEVELOPMENT ENGINEER
Examined By:	<i>Kevin Hill</i> DISTRICT OPERATIONS ENGINEER
Examined By:	<i>[Signature]</i> DISTRICT PROJECT IMPLEMENTATION ENGINEER
Examined By:	<i>Douglas J. Muller</i> DISTRICT CONSTRUCTION ENGINEER
Examined By:	<i>[Signature]</i> DISTRICT MATERIALS ENGINEER

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	DATE - _____	REVISED - _____

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

**GENERAL NOTES, INDEX OF SHEETS,**  
**STANDARDS, AND SIGNATURE SHEET**

SCALE: \_\_\_\_\_ SHEET \_\_\_\_\_ OF \_\_\_\_\_ SHEETS STA. \_\_\_\_\_ TO STA. \_\_\_\_\_

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
778	4CR-1	HARDIN	12	2
ILLINOIS FED. AID PROJECT			CONTRACT NO. 78652	

# SUMMARY OF QUANTITIES

COUNTY:	Hardin CO
ROUTE:	IL 34
FUNDING:	80% FED / 20% STATE
LOCATION:	RURAL
TOTAL QUANTITY	ROADWAY 0004

CODE NUMBER	ITEM DESCRIPTION	UNIT	TOTAL QUANTITY	
20200100	EARTH EXCAVATION	CU YD	201	201
20700220	POROUS GRANULAR EMBANKMENT	CU YD	118	118
25000200	SEEDING, CLASS 2	ACRE	0.25	0.25
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	23	23
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	23	23
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	23	23
25000700	AGRICULTURAL GROUND LIMESTONE	TON	0.50	0.50
25100630	EROSION CONTROL BLANKET	SQ YD	72	72
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	25	25
28000400	PERIMETER EROSION BARRIER	FOOT	205	205
28100107	STONE RIPRAP, CLASS A4	SQ YD	48	48
28200200	FILTER FABRIC	SQ YD	48	48

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## SUMMARY OF QUANTITIES - CONT

COUNTY:	Hardin CO
ROUTE:	IL 34
FUNDING:	80% FED / 20% STATE
LOCATION:	RURAL
TOTAL QUANTITY	ROADWAY 0004

CODE NUMBER	ITEM DESCRIPTION	UNIT	TOTAL QUANTITY	
4200060	WELDED WIRE REINFORCEMENT	SQ YD	80	80
4200050	PORTLAND CEMENT CONCRETE PAVEMENT 10"	SQ YD	80	80
42300200	PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 6 INCH	SQ YD	18	18
44000100	PAVEMENT REMOVAL	SQ YD	98	98
48101600	AGGREGATE SHOULDERS, TYPE B 8"	SQ YD	15	15
50102400	CONCRETE REMOVAL	CU YD	32	32
54001001	BOX CULVERT END SECTIONS, CULVERT NO. 1	EACH	2	2
54010504	PRECAST CONCRETE BOX CULVERTS 5' X 4'	FOOT	49	49
59100100	GEOCOMPOSITE WALL DRAIN	SQ YD	53	53
67100100	MOBILIZATION	L SUM	1	1
70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	L SUM	1	1
70103815	TRAFFIC CONTROL SURVEILLANCE	CAL DA	3	3

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## SUMMARY OF QUANTITIES - CONT

COUNTY:	Hardin CO
ROUTE:	IL 34
FUNDING:	80% FED / 20% STATE
LOCATION:	RURAL
	ROADWAY
	0004

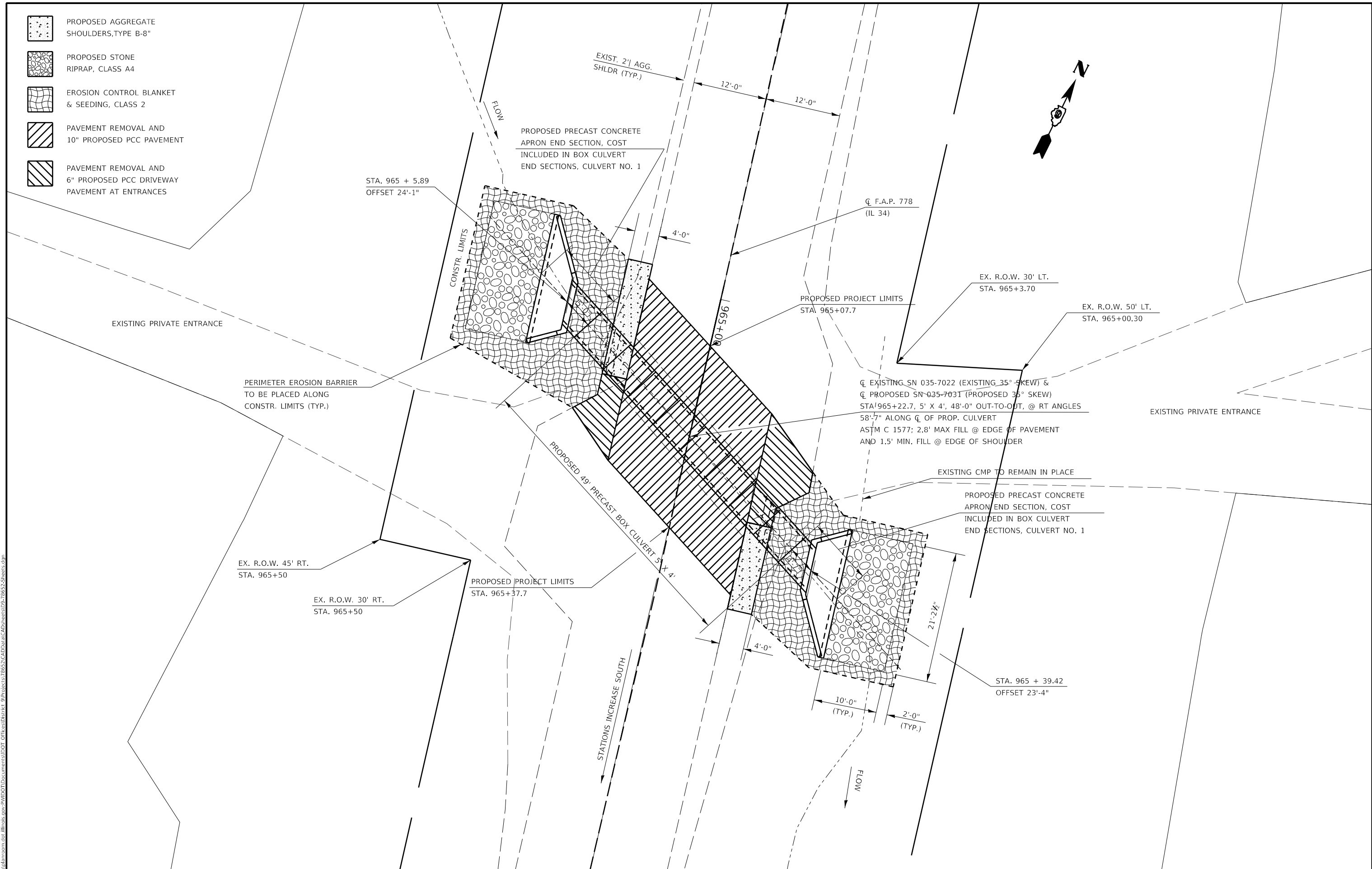
CODE NUMBER	ITEM DESCRIPTION	UNIT	TOTAL QUANTITY	
70107025	CHANGEABLE MESSAGE SIGN	CAL DA	34	34
* 78001110	PAINT PAVEMENT MARKING - LINE 4"	FOOT	70	70
X0900064	MEMBRANE WATERPROOFING SYSTEM FOR BURIED STRUCTURES	SQ YD	53	53
X7011800	TRAFFIC CONTROL AND PROTECTION, STANDARD BLR 21	L SUM	1	1

\* SPECIALTY ITEM

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 FILE NAME: ...  
 PROJECT: ...



- PROPOSED AGGREGATE SHOULDERS, TYPE B-8"
- PROPOSED STONE RIPRAP, CLASS A4
- EROSION CONTROL BLANKET & SEEDING, CLASS 2
- PAVEMENT REMOVAL AND 10" PROPOSED PCC PAVEMENT
- PAVEMENT REMOVAL AND 6" PROPOSED PCC DRIVEWAY PAVEMENT AT ENTRANCES



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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

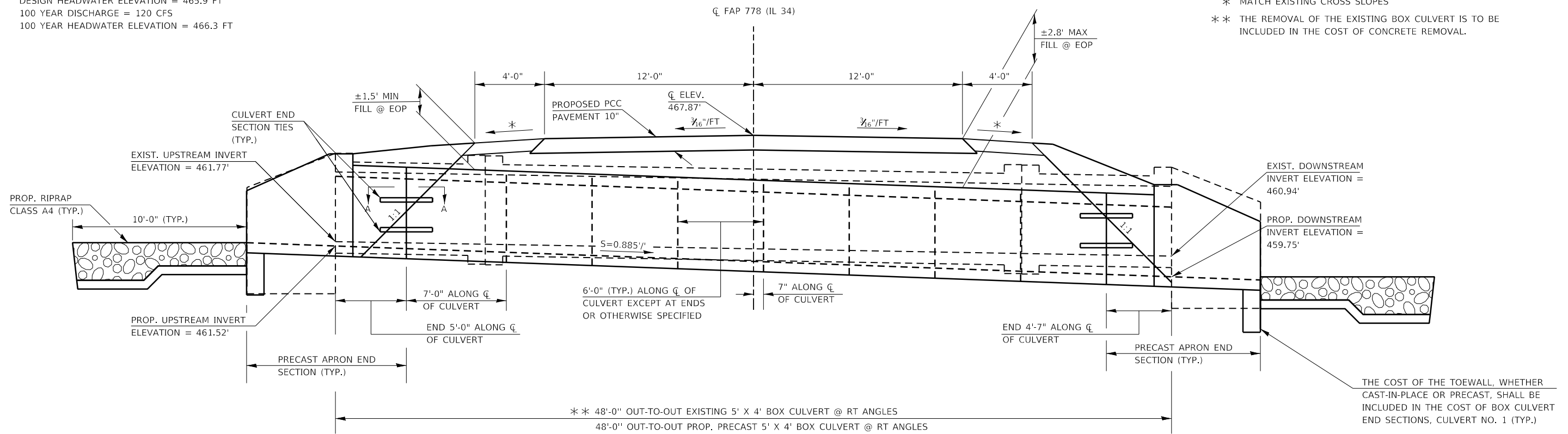
<b>GENERAL PLAN SN 035-7031 (P)</b>	
SCALE:	SHEET OF SHEETS STA. TO STA.

F.A.P. RTE. 778	SECTION 4CR-1	COUNTY HARDIN	TOTAL SHEETS 12	SHEET NO. 7
CONTRACT NO. 78652				
ILLINOIS FED. AID PROJECT				

**HYDRAULIC DATA**

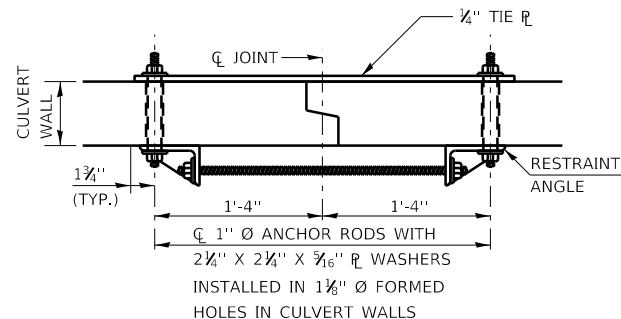
DRAINAGE AREA = 30.51 ACRES  
 DESIGN WATERWAY OPENING = 20 SQFT  
 DESIGN DISCHARGE = 105 CFS  
 DESIGN HEADWATER ELEVATION = 465.9 FT  
 100 YEAR DISCHARGE = 120 CFS  
 100 YEAR HEADWATER ELEVATION = 466.3 FT

**FINAL SECTION**

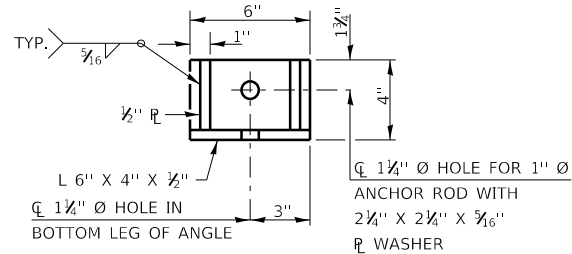


\* MATCH EXISTING CROSS SLOPES  
 \* \* \* THE REMOVAL OF THE EXISTING BOX CULVERT IS TO BE INCLUDED IN THE COST OF CONCRETE REMOVAL.

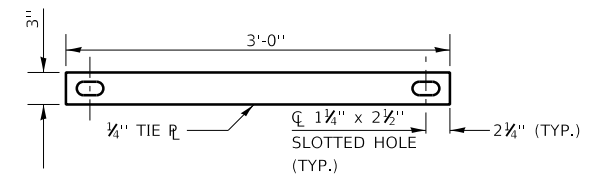
**ELEVATION  
 (LOOKING NORTH)**



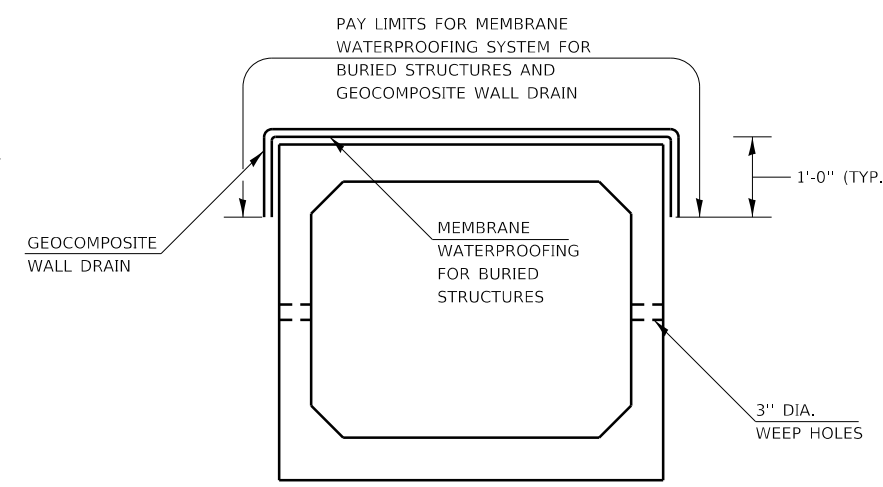
**SECTION A-A TIE PLATE DETAIL  
 (SHOWING END SECTION TIE DETAILS)  
 NOT TO SCALE**



**RESTRAINT ANGLE DETAIL  
 NOT TO SCALE**



**TIE PLATE DETAIL  
 NOT TO SCALE**



**PRECAST CONCRETE  
 BOX CULVERT**

NOTE:  
 GEOCOMPOSITE WALL DRAIN SHALL BE ACCORDING TO SECTION 591 OF THE STANDARD SPECIFICATIONS, EXCEPT THAT CONCRETE NAILS SHALL NOT BE USED IN AREAS WHERE IT OVERLAPS MEMBRANE WATERPROOFING SYSTEM FOR BURIED STRUCTURES.

THE NUMBER OF CULVERT TIES SHALL BE SUFFICIENT TO ENGAGE THE MINIMUM LENGTH OF CULVERT BARREL SHOWN WITHIN THE PAY LIMITS FOR PRECAST CONCRETE BOX CULVERTS AND WILL BE DEPENDENT UPON THE LENGTH OF BOX CULVERT SEGMENTS FURNISHED BY THE CONTRACTOR. CULVERT TIES ARE NOT REQUIRED FOR BOX CULVERTS HAVING A RISE LESS THAN OR EQUAL TO 3 FT AND A SPAN GREATER THAN OR EQUAL TO 10FT.

ALL COSTS ASSOCIATED WITH FURNISHING AND INSTALLING OR CONSTRUCTING THE TOEWALL AND CULVERT TIES WILL NOT BE MEASURED FOR PAYMENT BUT SHALL BE INCLUDED IN THE UNIT PRICE FOR BOX CULVERT END SECTIONS OF THE CULVERT NUMBER SPECIFIED.

PRECAST BOX CULVERT SCHEDULE (ASTM C 1577)						
STATION	SIZE	SKEW	DESIGN FILL (FT.)		PGE BACKFILL REQUIRED	
			EDGE OF SHLD. (MIN)	MAXIMUM		
HARDIN COUNTY						
965 + 07.7	TO 965 + 37.7	5' X 4'	35°	± 1.5'	± 2.8'	118 CU YD

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PLOT SCALE = 6.0000' / in.	DRAWN -	REVISED -
PLOT DATE = 6/19/2019	CHECKED -	REVISED -
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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

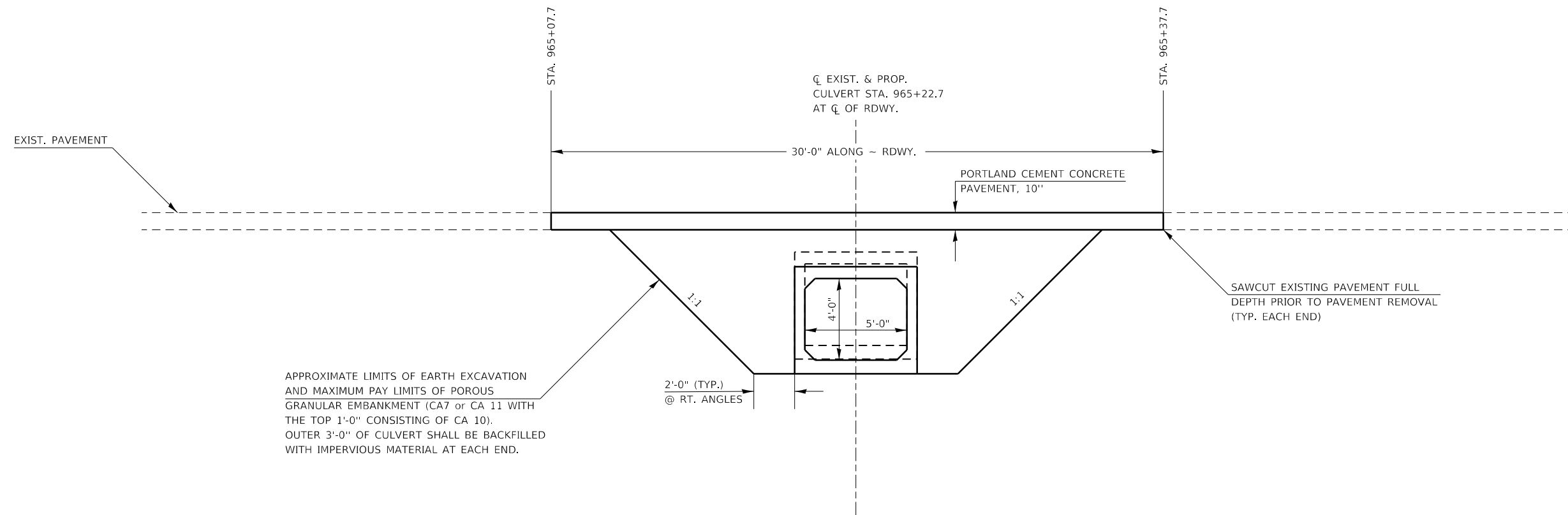
**DETAIL AND FINAL SECTION  
 SN 035-7031 (P)**

SCALE:	SHEET	OF	SHEETS	STA.	TO	STA.
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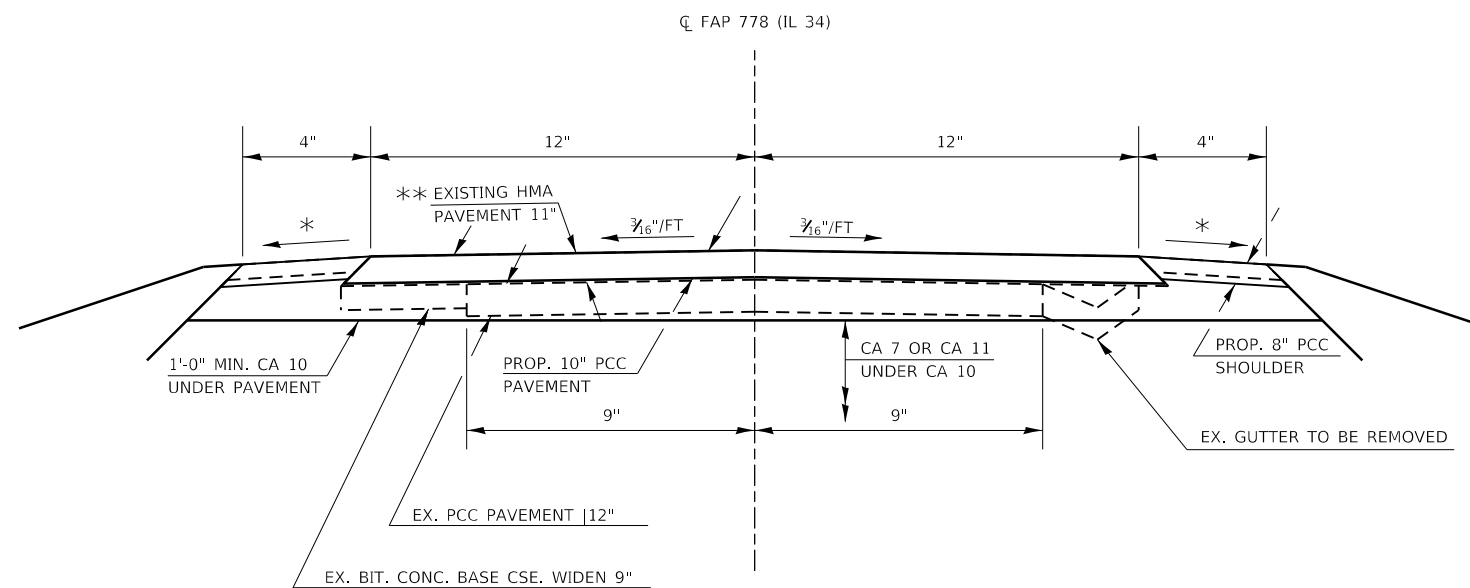
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
778	4CR-1	HARDIN	12	8
CONTRACT NO. 78652				
ILLINOIS FED. AID PROJECT				



**LIMITS OF POROUS GRANULAR EMBANKMENT**



**EXISTING & PROPOSED SECTIONS WITHIN PAVEMENT REMOVAL**



- \* MATCH EXISTING CROSS SLOPES
- \*\* THE COST TO REMOVE THE EXISTING 29'-4" x 8'-2" x 8" REINFORCED STRUCTURAL SLAB OVER THE BOX IS INCLUDED IN PAVEMENT REMOVAL.

NOTE:  
REMOVAL OF GUTTER IS INCLUDED IN PAVEMENT REMOVAL

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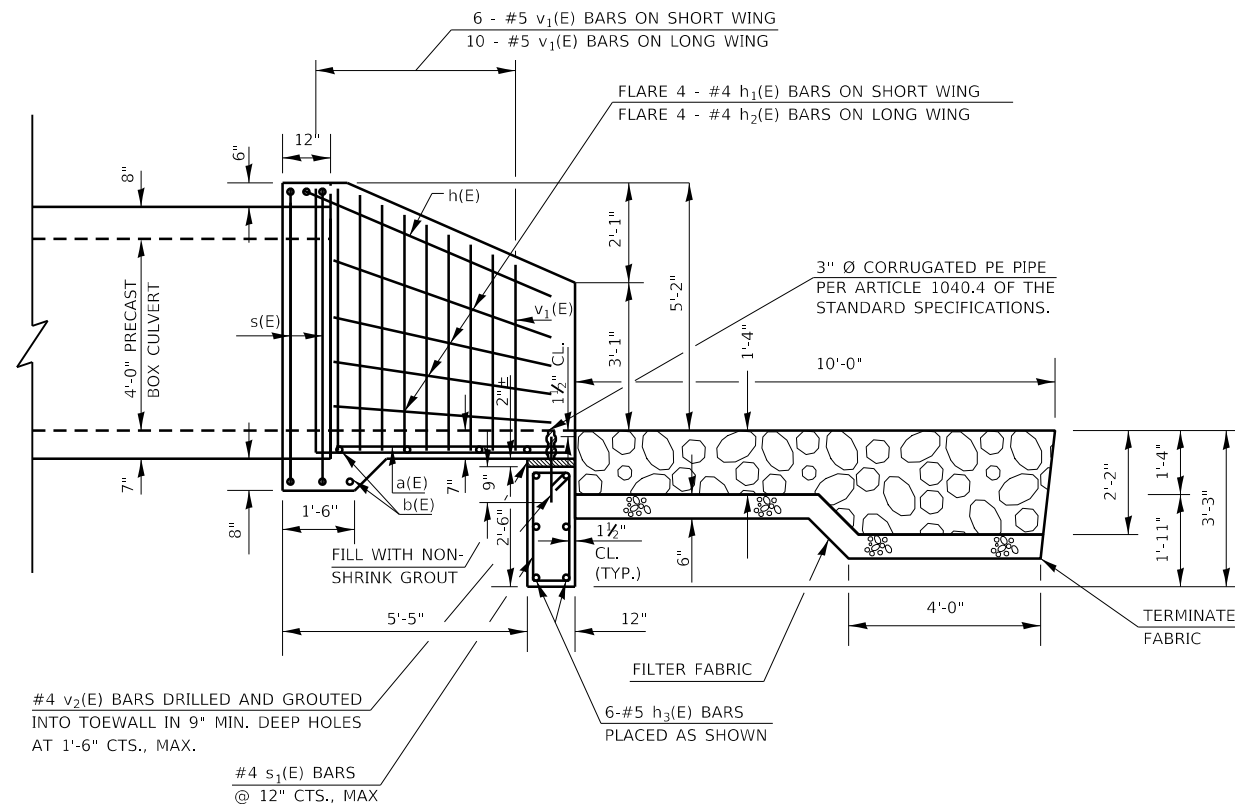
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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

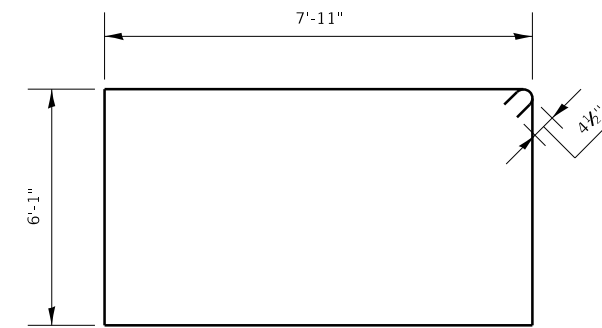
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SECTION WITHIN PAVEMENT REMOVAL SN 035-7031 (P)**

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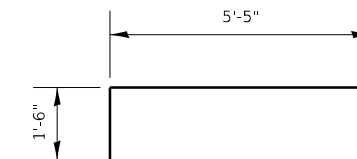
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778	4CR-1	HARDIN	12	9
ILLINOIS FED. AID PROJECT			CONTRACT NO. 78652	



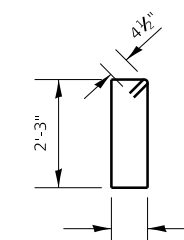
HALF SIDE ELEVATION



BAR s(E)



BAR v1(E)



BAR s1(E)

#4 v2(E) BARS DRILLED AND GROUTED INTO TOEWALL IN 9" MIN. DEEP HOLES AT 1'-6" CTS., MAX.  
#4 s1(E) BARS @ 12" CTS., MAX

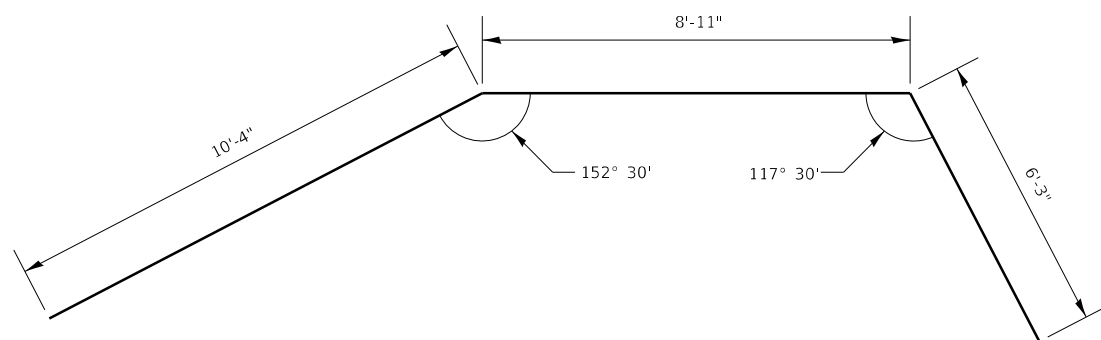
6-#5 h3(E) BARS PLACED AS SHOWN

FOR INFORMATION ONLY  
AS NEEDED FOR THE FABRICATION OF  
THE PRECAST APRON END SECTION

BILL OF MATERIAL - 2 APRONS

BAR	NO.	SIZE	LENGTH	SHAPE
a(E)	28	#4	4'-9"	—
b(E)	10	#4	20'-10"	—
h(E)	2	#4	25'-6"	∩
h1(E)	8	#4	6'-3"	—
h2(E)	8	#4	10'-4"	—
h3(E)	6	#5	20'-10"	—
s(E)	4	#4	28'-9"	□
s1(E)	42	#4	6'-9"	□
v1(E)	32	#5	6'-11"	└
v2(E)	28	#4	1'-5"	—
CONCRETE BOX CULVERTS			CU. YD.	12.9
REINFORCEMENT BARS, EPOXY COATED			POUND	1010

REINFORCEMENT BARS DESIGNATED (E) SHALL BE EPOXY COATED.  
\* CUT OR BEND TO FIT  
REINFORCEMENT BARS SHALL CONFORM TO THE REQUIREMENTS OF ASTM A 706.  
EXPOSED EDGES SHALL BE BEVELED 3/4"



BAR h(E)

DESIGN STRESSES

fy = 60,000 PSI  
fc' = 3,500 PSI

CAST-IN-PLACE  
APRON END SECTION DETAILS  
HARDIN COUNTY  
SN 035-7031 (P)

WORK THIS SHEET WITH SHEET 11 OF 12

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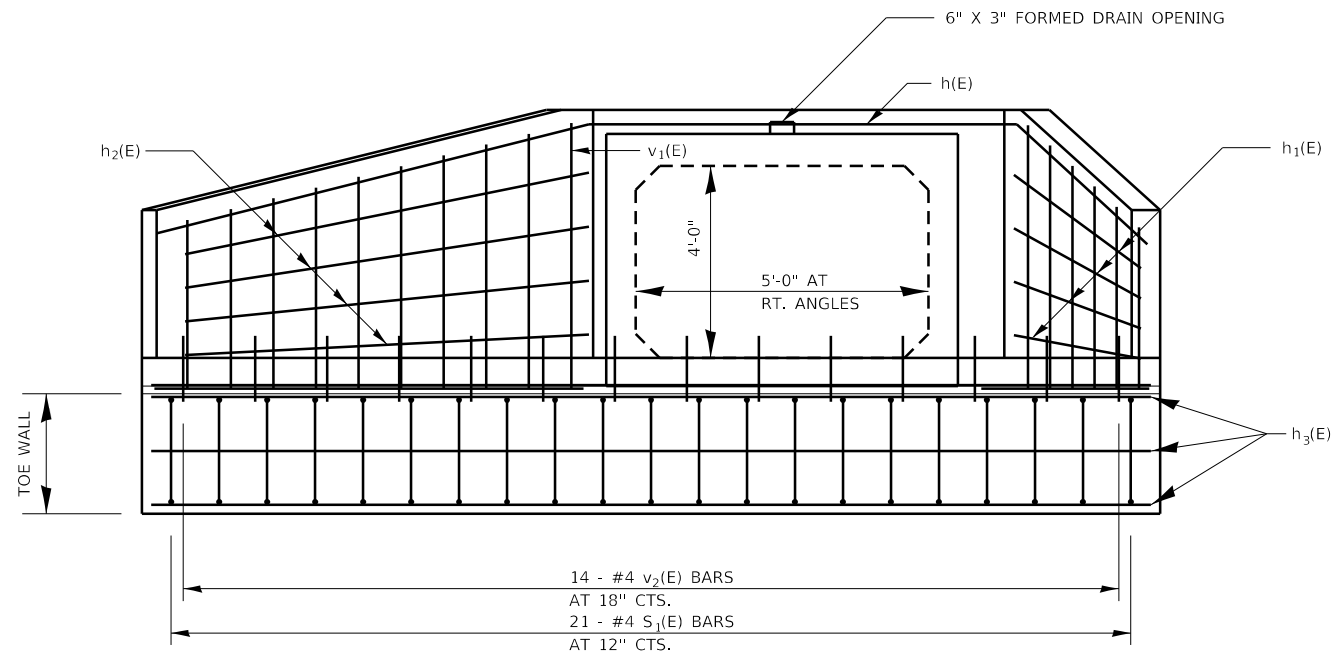
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STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

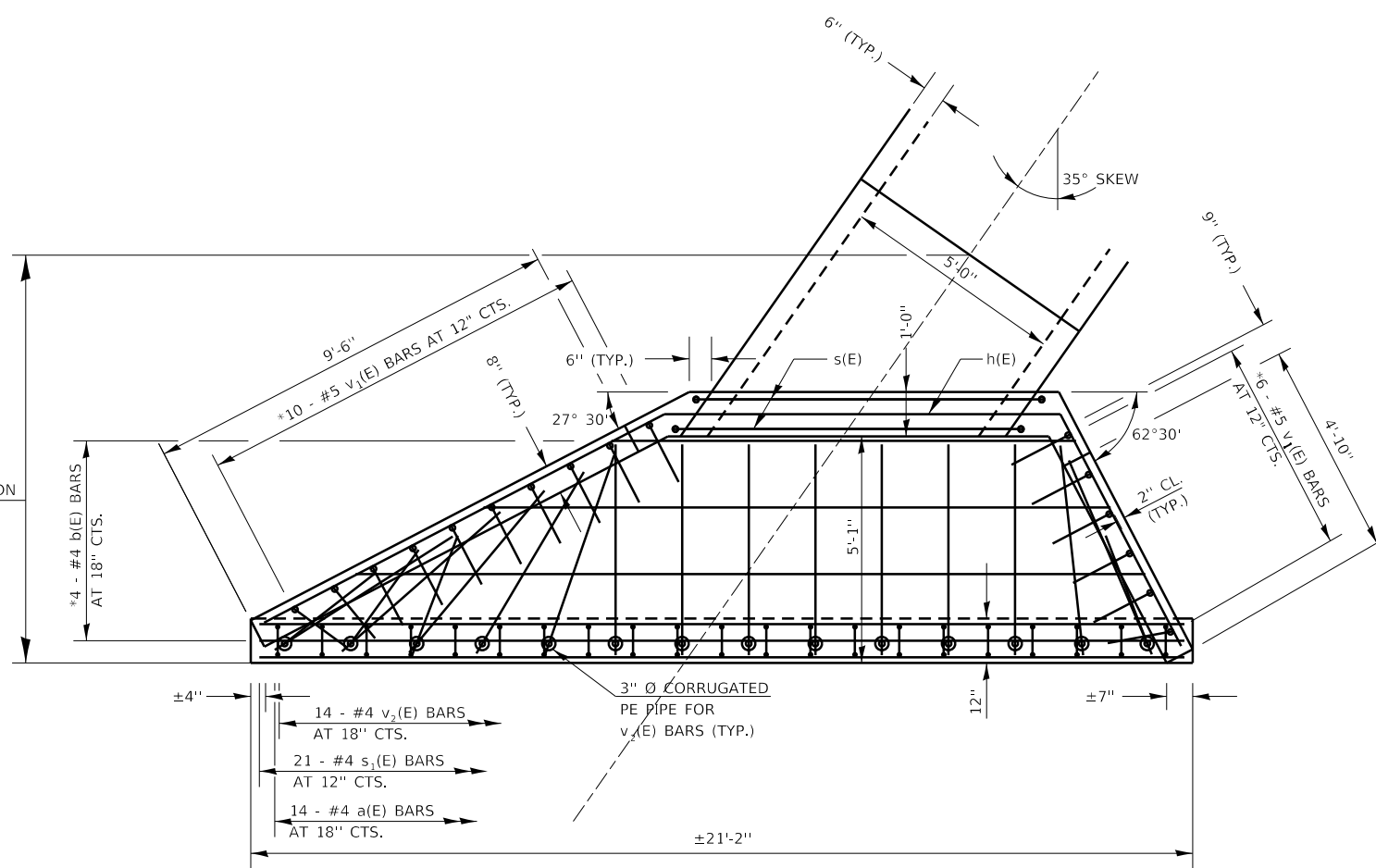
APRON END SECTION DETAILS  
SN 035-7031

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
778	4CR-1	HARDIN	12	10
CONTRACT NO. 78652				
ILLINOIS FED. AID PROJECT				



END ELEVATION



PLAN

FOR INFORMATION ONLY  
AS NEEDED FOR THE FABRICATION OF  
THE PRECAST APRON END SECTION

WORK THIS SHEET WITH SHEET 10 OF 12

CAST-IN-PLACE  
APRON END SECTION DETAILS  
HARDIN COUNTY  
SN 035-7031 (P)

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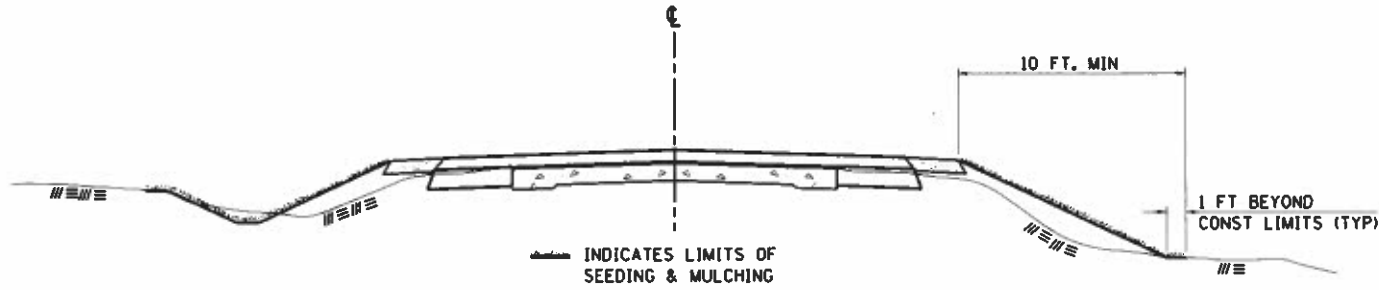
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

APRON END SECTION DETAILS  
SN 035-7031 (P)

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
778	4CR-1	HARDIN	12	11
CONTRACT NO. 78652				
ILLINOIS FED. AID PROJECT				

# SEEDING & MULCHING



## GENERAL NOTES

IN GENERAL, ALL EARTH SURFACES DISTURBED DURING CONSTRUCTION OPERATIONS SHALL BE SEEDED AND MULCHED UPON COMPLETION OF ALL GRADING OPERATIONS.

ON DETOUR ROADS, SLOPES SHALL BE SEEDED IMMEDIATELY UPON COMPLETION OF ANY GIVEN STAGE GRADING. TEMPORARY SEEDING SHALL BE CLASS 7.

FERTILIZER NUTRIENTS SHALL BE APPLIED TO ALL SEEDED AREAS. LIMESTONE SHALL BE APPLIED TO ALL AREAS OF FINAL SEEDING.

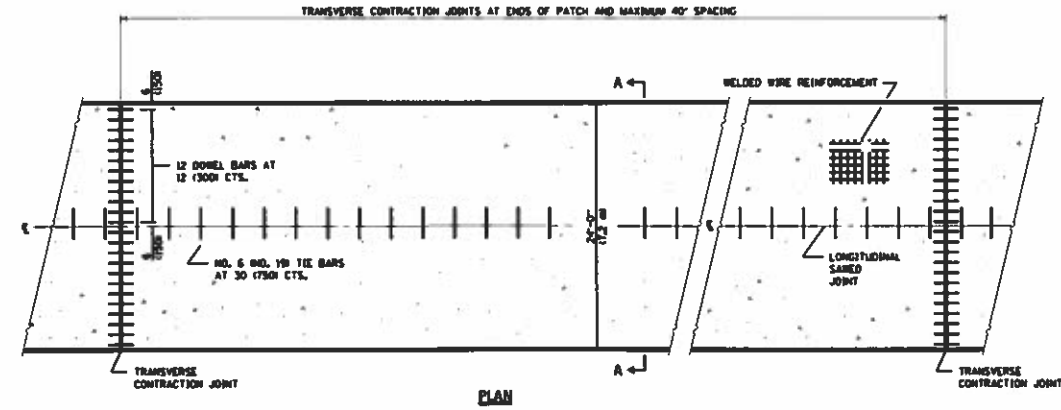
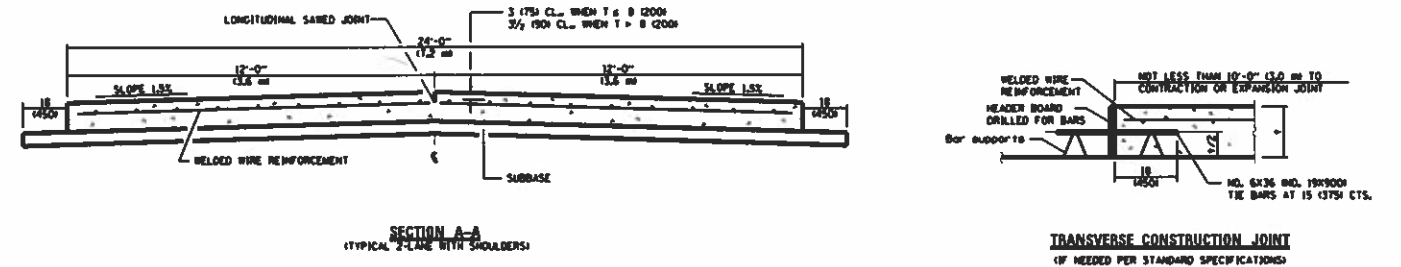
THE RATES OF APPLICATION OF FERTILIZER, MULCH AND LIMESTONE SHALL BE AS SPECIFIED IN THE SPECIAL PROVISIONS FOR ROAD AND BRIDGE CONSTRUCTION.

SECTIONS 250 AND 251 OF THE STANDARD SPECIFICATIONS SHALL GOVERN THIS WORK EXCEPT AS SPECIFIED HEREIN OR AS NOTED IN THE SPECIAL PROVISIONS.

REVISIONS	
REDRAWN	2-15-89
REVISED	8-19-92
REVISED	8-19-94
REVISED	6-1-95
REVISED	3-27-08
REVISED	5-16-13

STD. 9-12

## 24' (7.2 m) PCC PAVEMENT OVER BOX CULVERT



**GENERAL NOTES**  
SEE STANDARD 42004 FOR DETAILS NOT SHOWN.  
SEE STANDARD 42014 FOR WELDED WIRE REINFORCEMENT DETAILS.  
ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.  
ACTUAL DIMENSIONS TO MATCH FIELD CONDITIONS AND CONSTRUCTION METHODS.

REVISIONS	
DRAWN	11-9-17
REVISED	7-23-18

STD. 9-25

USER NAME = WILSONDA	DESIGNED -	REVISED -
PLOT SCALE = 100.0000' / in	CHECKED -	REVISED -
PLOT DATE = 4/24/2019	DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

DISTRICT STANDARDS

F.A.P. RTE. 778	SECTION 4CR-1	COUNTY HARDIN	TOTAL SHEETS 12	SHEET NO. 12
			CONTRACT NO. 78652	
ILLINOIS FED. AID PROJECT				

SCALE: \_\_\_\_\_ SHEET \_\_\_\_\_ OF \_\_\_\_\_ SHEETS STA. \_\_\_\_\_ TO STA. \_\_\_\_\_

MODE: Default  
FILE NAME: pw\pdm001\documents\dot - offices\duard\_9\pdm001\78652\CADD\data\CAD\dwg\stds\9-25.dwg