

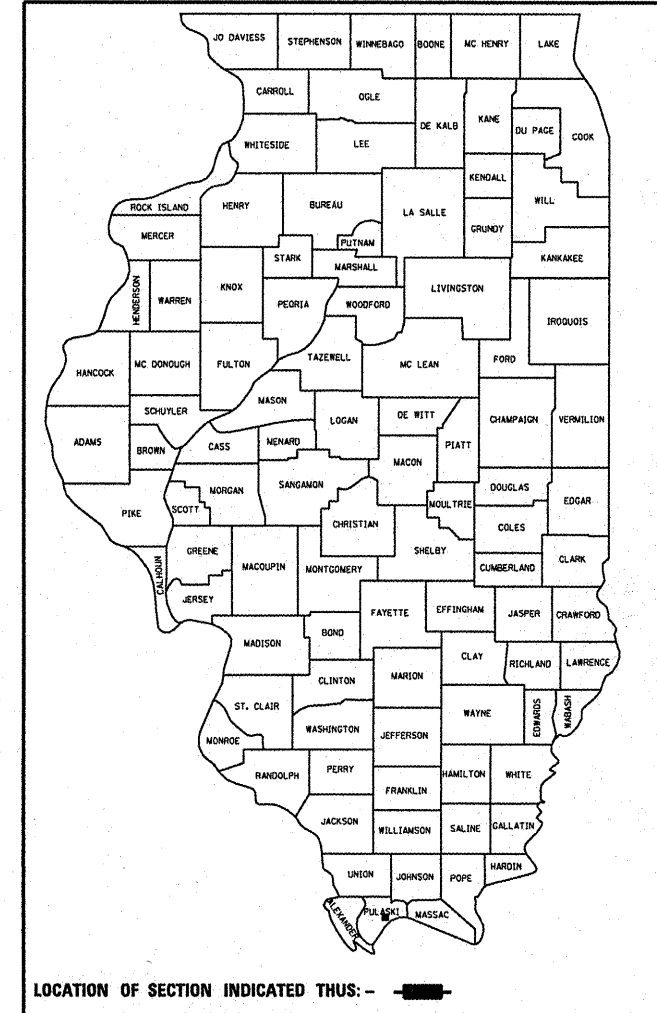
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS

**PROPOSED
 HIGHWAY PLANS**

FAP ROUTE 726 (IL 37)
 SECTION (120) I-1
 PULASKI COUNTY
 C-99-013-10

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
726	(120) I-1	PULASKI	14	1
		ILLINOIS	CONTRACT NO. 78158	

D-99-013-10



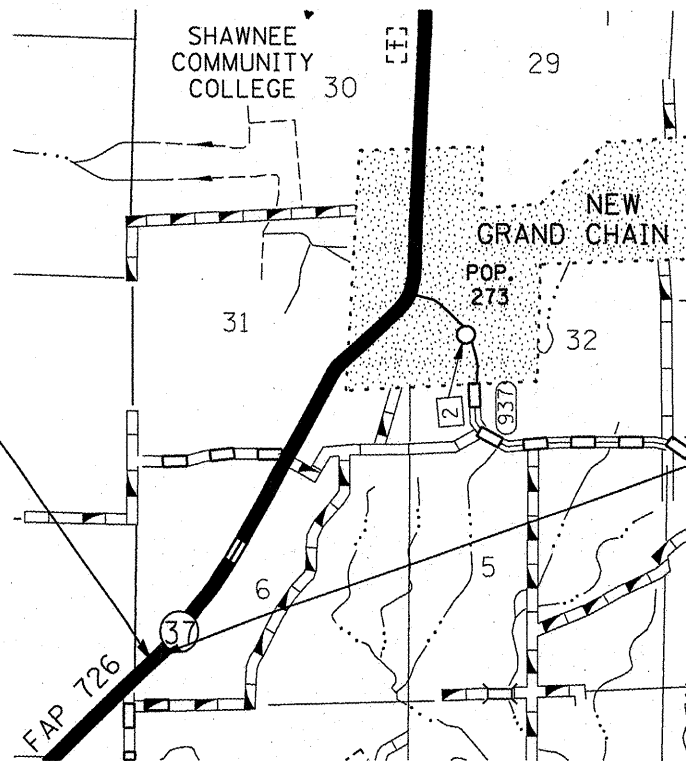
FOR INDEX OF SHEETS, SEE SHEET NO. 2
 FOR SUMMARY OF QUANTITIES, SEE SHEET NO. 3-4

TRAFFIC DATA (2007)

IL 37: ADT = 1,400 13.9% TRUCKS

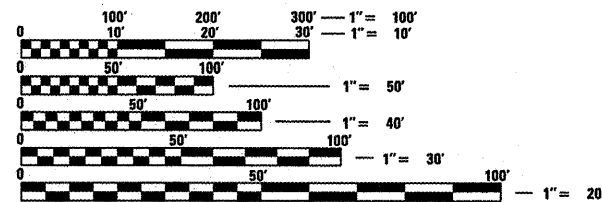
IMPROVEMENT BEGINS
 STA 702+00

IMPROVEMENT ENDS
 STA 702+64



MAP NOT TO SCALE

GROSS LENGTH = 64.0 FT. = 0.012 MILE
 NET LENGTH = 64.0 FT. = 0.012 MILE



FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

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

TOWNSHIP: GRAND CHAIN

CONTRACT NO. 78158

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS

SUBMITTED *Dec 8* 20 *09*

Mary C. Damie
 DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

January 29, 20 10
Scott E. Stitt (Signature)
 ACTING ENGINEER OF DESIGN AND ENVIRONMENT

January 29, 20 10
Christine M. Reed (Signature)
 DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

PRINTED BY THE AUTHORITY
 OF THE STATE OF ILLINOIS

PLOT DATE = 12/1/2009
 FILE NAME = c:\pwworking\pwworking\plott\vrnz\c\815533\78158-ent-pl.dgn
 PLOT SCALE = 1/8"=20'-0"
 USER NAME = vrnz
 STRUZZI & ALAKE ENGINEERS, DENNIS HALLBERGER, 608-249-2171, CENTREX 332-4544
 ESTIMON, JAY BARNZ, 608-545-2171

INDEX OF SHEETS

SHEET NO.	DESCRIPTION
1	COVER SHEET
2	SIGNATURE SHEET, INDEX OF SHEETS, STANDARDS, GENERAL NOTES, STRUCTURES WITHIN PROJECT, COMMITMENTS
3-4	SUMMARY OF QUANTITIES
5	TYPICAL SECTIONS
6-8	SCHEDULES
9-10	CULVERT DETAILS
11	DETOUR PLAN
12	DETAIL - PRECAST BOX CULVERT END SECTION
13	DETAIL - PRECAST BOX CULVERT SECTION (M259)
14	DETAIL - PAYMENT LIMITS FOR PRECAST CONCRETE BOX CULVERTS

GENERAL NOTES

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

ALL HOT-MIX ASPHALT	2.016 TONS/CU. YD.
ALL AGGREGATE	2.05 TONS/CU. YD.
BITUMINOUS MATERIALS:	
ON PAVEMENT	0.09 GAL./SQ. YD.
ON AGGREGATE SURFACE	0.32 GAL./SQ. YD.
AGGREGATE (PRIME COAT)	0.0015 TONS/SQ. YD.
RIPRAP	1.50 TONS/CU. YD.

THE QUANTITY OF SHORT TERM PAVEMENT MARKING SHOWN IN THE PLANS IS BASED ON ONE APPLICATION.

ALL PAVEMENT MARKINGS SHALL BE LOCATED AND RECORDED BEFORE PAVEMENT REMOVAL.

PRIOR TO PLACEMENT OF THE FINAL PAVEMENT MARKINGS THE RESIDENT ENGINEER SHOULD CONTACT THE BUREAU OF OPERATIONS AND ARRANGE FOR INSPECTION AND APPROVAL OF THE PAVEMENT MARKING LAYOUT.

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.

STATIONING SHOWN IN THE SCHEDULES IS BASED ON STAMPED STATIONS IN THE EXISTING PAVEMENT AND FROM OLD PLANS. MINOR ADJUSTMENTS MAY BE REQUIRED AS DIRECTED BY THE ENGINEER.

PLAN DIMENSIONS AND DETAILS RELATIVE TO EXISTING PLANS ARE SUBJECT TO NOMINAL CONSTRUCTION VARIATIONS. THE CONTRACTOR SHALL FIELD VERIFY EXISTING DIMENSIONS AND DETAILS AFFECTING NEW CONSTRUCTION AND MAKE NECESSARY APPROVED ADJUSTMENTS PRIOR TO CONSTRUCTION OR ORDERING OF MATERIALS. SUCH VARIATIONS SHALL NOT BE CAUSE FOR ADDITIONAL COMPENSTATION FOR A CHANGE IN THE SCOPE OF THE WORK. HOWEVER, THE CONTRACTOR WILL BE PAID FOR THE QUANTITY ACTUALLY FURNISHED AT THE UNIT PRICE BID FOR THE WORK.

ALL EARTH EXCAVATION SHALL BE INCLUDED IN THE COST OF PRECAST CONCRETE BOX CULVERT 4' X 3'.

STANDARDS

280001-04	701301-03
420001-07	701311-03
420101-04	701901-01
606201-02	780001-02
701001-02	BLR 17-4
701006-03	BLR 21-8
701201-03	

STRUCTURES WITHIN PROJECT LIMITS

STRUCTURE NO. OPERATING RATING INVENTORY RATING POSTING MTD APPROVAL

NONE

COMMITMENTS

NONE

Prepared By:	<i>Demi W. Hilde</i> DISTRICT STUDIES & PLANS ENGINEER
Examined By:	<i>Namsis S</i> DISTRICT LAND ACQUISITION ENGINEER
Examined By:	<i>Cassie Nelson</i> DISTRICT PROGRAM DEVELOPMENT ENGINEER
Examined By:	<i>Carl Wiley</i> DISTRICT OPERATIONS ENGINEER
Examined By:	<i>Jim Mueller</i> DISTRICT CONSTRUCTION ENGINEER
Examined By:	<i>Bryan Reibel</i> DISTRICT MATERIALS ENGINEER
Examined By:	<i>Jim Mueller</i> DISTRICT PROJECT IMPLEMENTATION ENGINEER
Examined By:	<i>Samuel White</i> ASSISTANT REGIONAL ENGINEER
Approved By:	<i>Marg C. Sami</i> DEPUTY DIRECTOR OF HIGHWAYS, REGION 5 ENGINEER
	DATE: <i>Dec 8th 2009</i>

FILE NAME =	USER NAME = kranzjo	DESIGNED -	REVISED -
ct:\pr-work\p\WIDOT\KRNZJC\0155533\78158	3-sh-t-pln.dgn	DRAWN -	REVISED -
	PLOT SCALE = 100.0000 "/ IN.	CHECKED -	REVISED -
	PLOT DATE = 11/20/2009	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**INDEX OF SHEETS, STANDARDS
GENERAL NOTES, SIGNATURES**

SCALE: SHEET NO. OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
726	(120)I-1	PULASKI	14	2
				CONTRACT NO. 78158
ILLINOIS FED. AID PROJECT				

SUMMARY OF QUANTITIES

FUNDING:	100% STATE
LOCATION:	RURAL
ROUTE:	FAP 726 (IL 37)
COUNTY:	PULASKI
WORK TYPE:	ROADWAY
CONST TYPE CODE:	1000

CODE NUMBER	ITEM DESCRIPTION	UNIT	PROJECT TOTAL QUANTITY	
20900110	POROUS GRANULAR BACKFILL	CU YD	1,264.0	1,264.0
25000350	SEEDING, CLASS 7	ACRE	0.3	0.3
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	40.0	40.0
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	30.0	30.0
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	30.0	30.0
25000700	AGRICULTURAL GROUND LIMESTONE	TON	0.5	0.5
25001010	SEEDING, CLASS 2 (MODIFIED)	ACRE	0.3	0.3
25100630	EROSION CONTROL BLANKET	SQ YD	1,189.0	1,189.0
28000500	INLET AND PIPE PROTECTION	EACH	1.0	1.0
31200100	STABILIZED SUB-BASE 4"	SQ YD	192.0	192.0
42000501	PORTLAND CEMENT CONCRETE PAVEMENT 10" (JOINTED)	SQ YD	171.0	171.0
42001300	PROTECTIVE COAT	SQ YD	183.0	183.0
44000100	PAVEMENT REMOVAL	SQ YD	171.0	171.0
44000400	GUTTER REMOVAL	FOOT	64.0	64.0
48101600	AGGREGATE SHOULDERS, TYPE B 8"	SQ YD	28.0	28.0

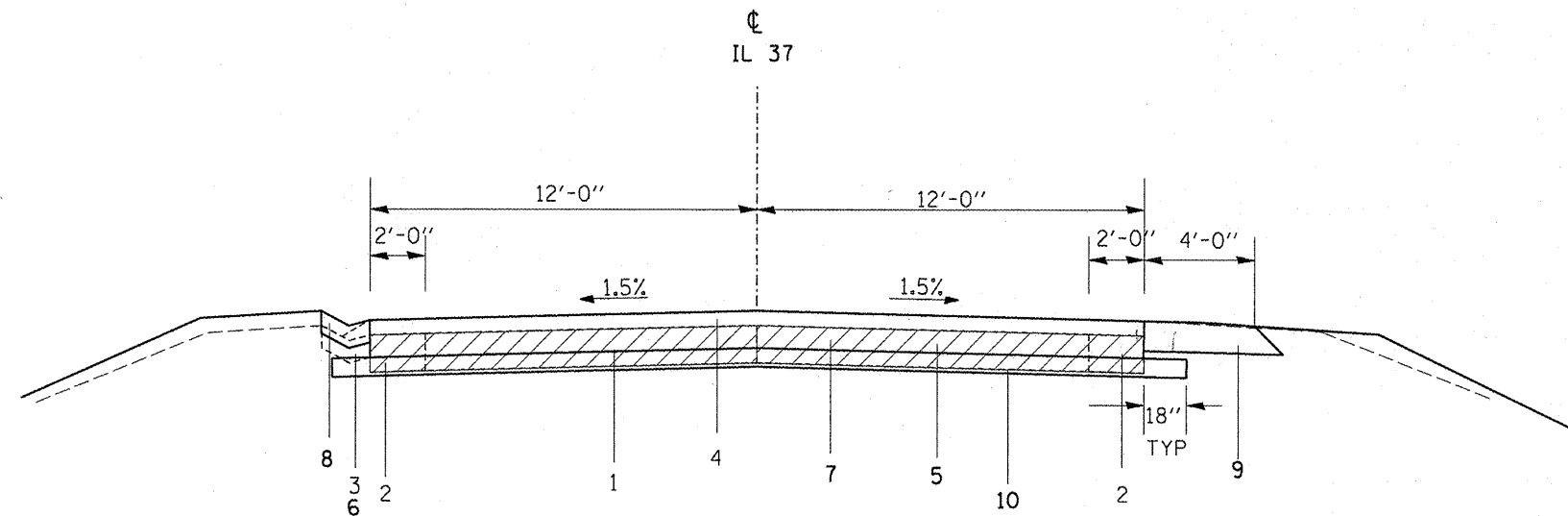
SUMMARY OF QUANTITIES

FUNDING:	100% STATE
LOCATION:	RURAL
ROUTE:	FAP 726 (IL 37)
COUNTY:	PULASKI
WORK TYPE:	ROADWAY
CONST TYPE CODE:	1000

CODE NUMBER	ITEM DESCRIPTION	UNIT	PROJECT TOTAL QUANTITY	
50104400	CONCRETE HEADWALL REMOVAL	EACH	2.0	2.0
50105220	PIPE CULVERT REMOVAL	FOOT	198.0	198.0
54010403	PRECAST CONCRETE BOX CULVERT 4' X3'	FOOT	123.0	123.0
60602800	CONCRETE GUTTER, TYPE B	FOOT	64.0	64.0
67100100	MOBILIZATION	L SUM	1.0	1.0
70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	L SUM	1.0	1.0
70101800	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1.0	1.0
70101830	TRAFFIC CONTROL AND PROTECTION, STANDARD BLR 21	L SUM	1.0	1.0
70106800	CHANGEABLE MESSAGE SIGN	CAL MO	3.0	3.0
70300100	SHORT-TERM PAVEMENT MARKING	FOOT	8.0	8.0
70300625	TEMPORARY PAINT PAVEMENT MARKING LINE 4"	FOOT	148.0	148.0
70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SQ FT	3.0	3.0
* 78001110	PAINT PAVEMENT MARKING - LINE 4"	FOOT	148.0	148.0
78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	1.0	1.0
X0914400	PRECAST CONCRETE BOX CULVERT END SECTIONS 4' X3'	EACH	2.0	2.0

** Specialty Items*

TYPICAL SECTION IL 37 PULASKI CO.



- 1 EXISTING PCC PAVEMENT 9"
- 2 EXISTING WIDENING
- 3 EXISTING CONCRETE GUTTER, TYPE B
- 4 EXISTING RESURFACING APPROX. 4"
- 5 PROPOSED PAVEMENT REMOVAL
- 6 PROPOSED GUTTER REMOVAL
- 7 PROPOSED PCC PAVEMENT 10" (JOINTED)
- 8 PROPOSED CONCRETE GUTTER, TYPE B
- 9 PROPOSED AGGREGATE SHOULDER, TYPE B 8"
- 10 PROPOSED STABILIZED SUB-BASE 4"

TO BE USED:

STA 402+00 TO STA 402+64

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

TYPICAL

FILE NAME =	USER NAME = kranzjc	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TYPICAL	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
as:\pw\work\PW1001\KLANZJC\d0155533\78158-shd-pln.dgn		DRAWN -	REVISED -			726	(120)I-1	PULASKI	14	5
PLOT SCALE = 100.0000' / IN.		CHECKED -	REVISED -							
PLOT DATE = 11/20/2009		DATE -	REVISED -							
						SCALE: SHEET NO. OF SHEETS STA. TO STA.		CONTRACT NO. 78158		
ILLINOIS FED. AID PROJECT										

PAVEMENT SCHEDULE

LOCATION: STATION TO STATION	PAVEMENT REMOVAL	PCC PAVEMENT 10" (JOINTED)	STABILIZED SUB-BASE 4"	GUTTER REMOVAL	CONCRETE GUTTER, TYPE B	PROTECTIVE COAT	AGGREGATE SHOULDERS, TYPE B 8"
	SQ YD	SQ YD	SQ YD	FOOT	FOOT	SQ YD	SQ YD
IL 37 FAP 726 PULASKI COUNTY							
STA 702+00 TO STA 702+64	171.0	171.0	192.0	64.0	64.0	183.0	28.0
IMPROVEMENT TOTAL:	171.0	171.0	192.0	64.0	64.0	183.0	28.0

CULVERT SCHEDULE

LOCATION: STATION TO STATION	PIPE CULVERT REMOVAL 2-30" RCCP	CONCRETE HEADWALL REMOVAL	PRECAST CONCRETE BOX CULVERT 4' X3'	PRECAST CONCRETE BOX CULVERT END SECTION 4' X3'
	FOOT	EACH	FOOT	EACH
IL 37 FAP 726 PULASKI COUNTY				
STA 702+32		198.0	2.0	123.0
IMPROVEMENT TOTAL:		198.0	2.0	123.0

SEEDING SCHEDULE

LOCATION: STATION TO STATION	SEEDING, CLASS 7	NITROGEN FERTILIZER NUTRIENT	PHOSPHORUS FERTILIZER NUTRIENT	POTASSIUM FERTILIZER NUTRIENT	AGRICULTURAL GROUND LIMESTONE	SEEDING, CLASS 2 (MODIFIED)	EROSION CONTROL BLANKET	INLET AND PIPE PROTECTION
	ACRE	POUND	POUND	POUND	TON	ACRE	SQ YD	EACH
IL 37								
FAP 726								
PULASKI COUNTY								
STA 702+00 TO STA 702+64	0.3	40.0	30.0	30.0	0.5	0.3	1,189.0	1.0
IMPROVEMENT TOTAL:	0.3	40.0	30.0	30.0	0.5	0.3	1,189.0	1.0

PAVEMENT MARKINGS

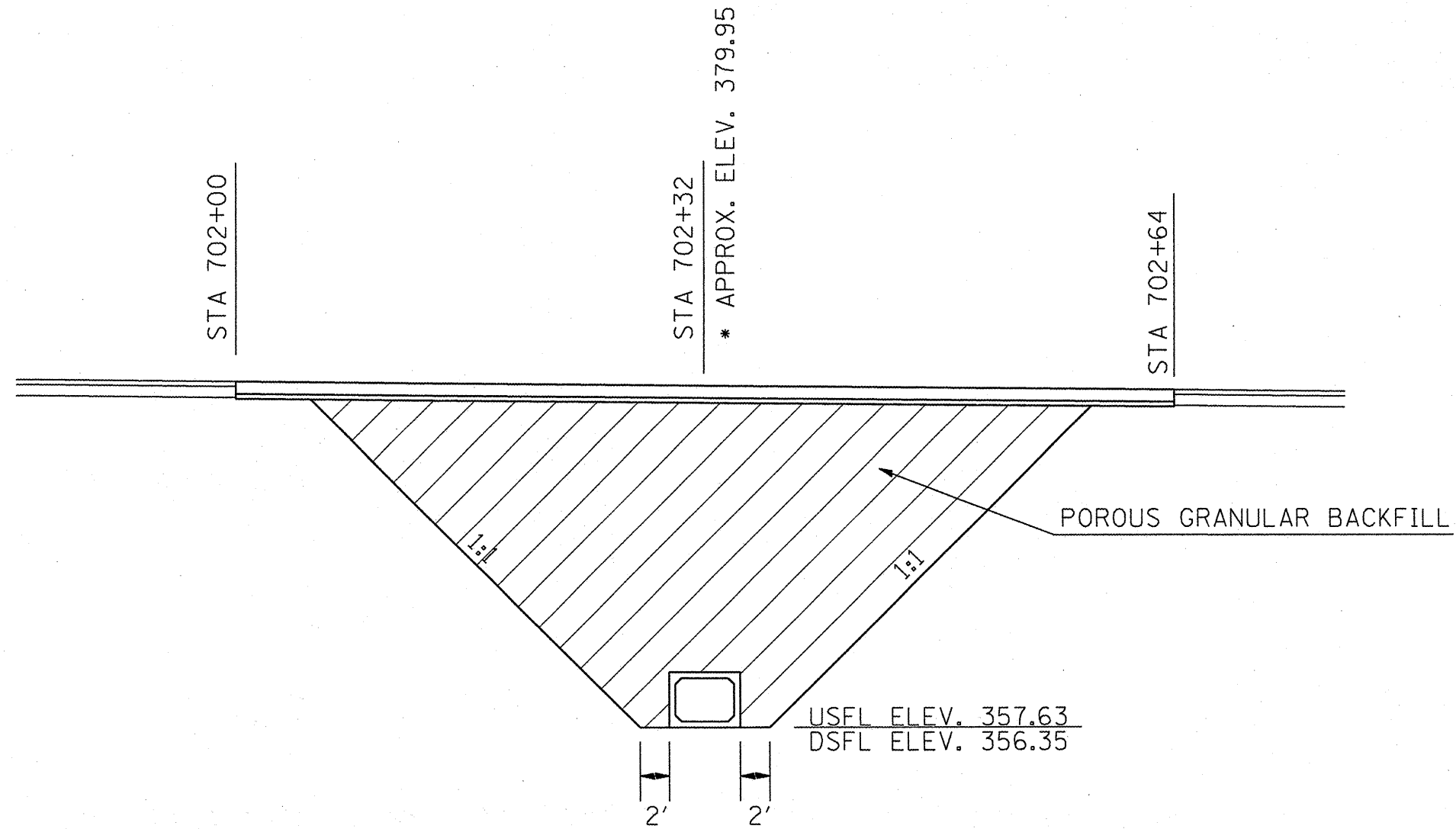
LOCATION STATION TO STATION	PAINT PAVEMENT MARKING - LINE		TEMPORARY PAINT PAVEMENT MARKING		SHORT- TERM PAVEMENT MARKING	WORK ZONE PAVEMENT MARKING REMOVAL	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL
	4 INCH		LINE 4 INCH				
	SOLID WHITE	SKIP-DASH YELLOW	SOLID WHITE	SKIP-DASH YELLOW			
	FOOT	FOOT	FOOT	FOOT			
IL 37							
FAP 726							
PULASKI COUNTY							
STA 702+00 TO STA 702+64	64	20	64	20	8	3	1.0
PROJECT SUB-TOTALS	64	20	64	20			
PROJECT TOTALS	84		84		8.0	3.0	1.0

DETOUR SIGNING SCHEDULE

SIGN ID NO.	DESCRIPTION	SIGN SIZE	NUMBER SIGNS REQUIRED	FOR INFO. ONLY *	
				SIGN PANEL - TYPE 1 (0-9)	SIGN PANEL - TYPE 2 (9-24)
				SQ FT	SQ FT
W20-2	DETOUR AHEAD	48X48	2.0		32.0
R11-3a	ROAD CLOSED XX MILES AHEAD LOCAL TRAFFIC ONLY	60X30	3.0		37.5
M4-8	DETOUR	24X12	20.0	40.0	
M1-5	37	24X24	20.0	80.0	
M3-3	SOUTH	24X12	10.0	20.0	
M3-1	NORTH	24X12	10.0	20.0	
M5-1L	LEFT ARROW	21X15	3.0	6.6	
M5-1R	RIGHT ARROW	21X15	7.0	15.3	
M6-1	ARROW	21X15	10.0	21.9	
IMPROVEMENT TOTAL:				203.8	69.5

* SIGNS INCLUDED IN THE COST OF TRAFFIC CONTROL AND PROTECTION, (SPECIAL)

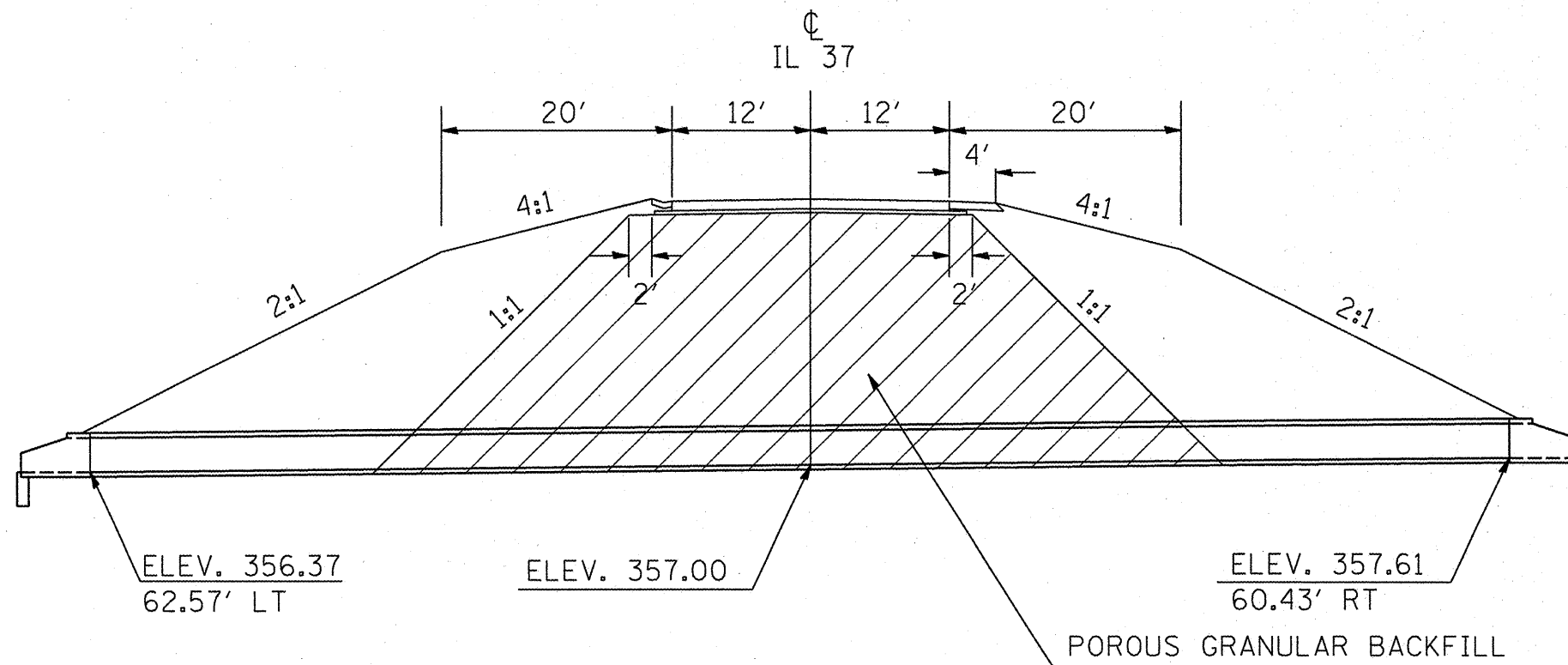
CULVERT DETAIL



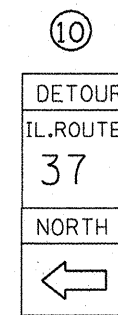
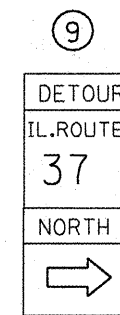
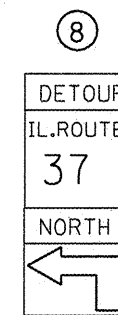
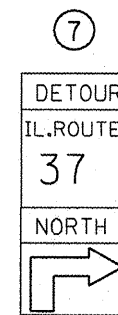
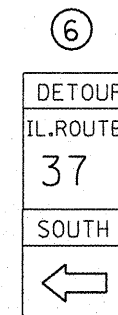
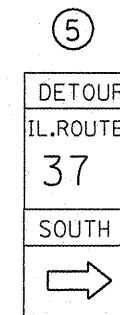
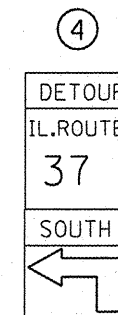
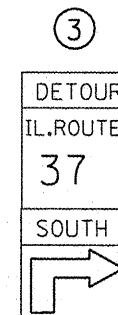
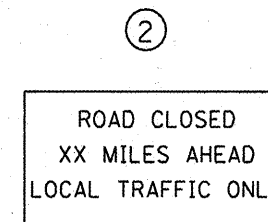
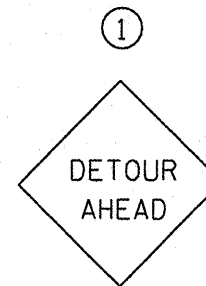
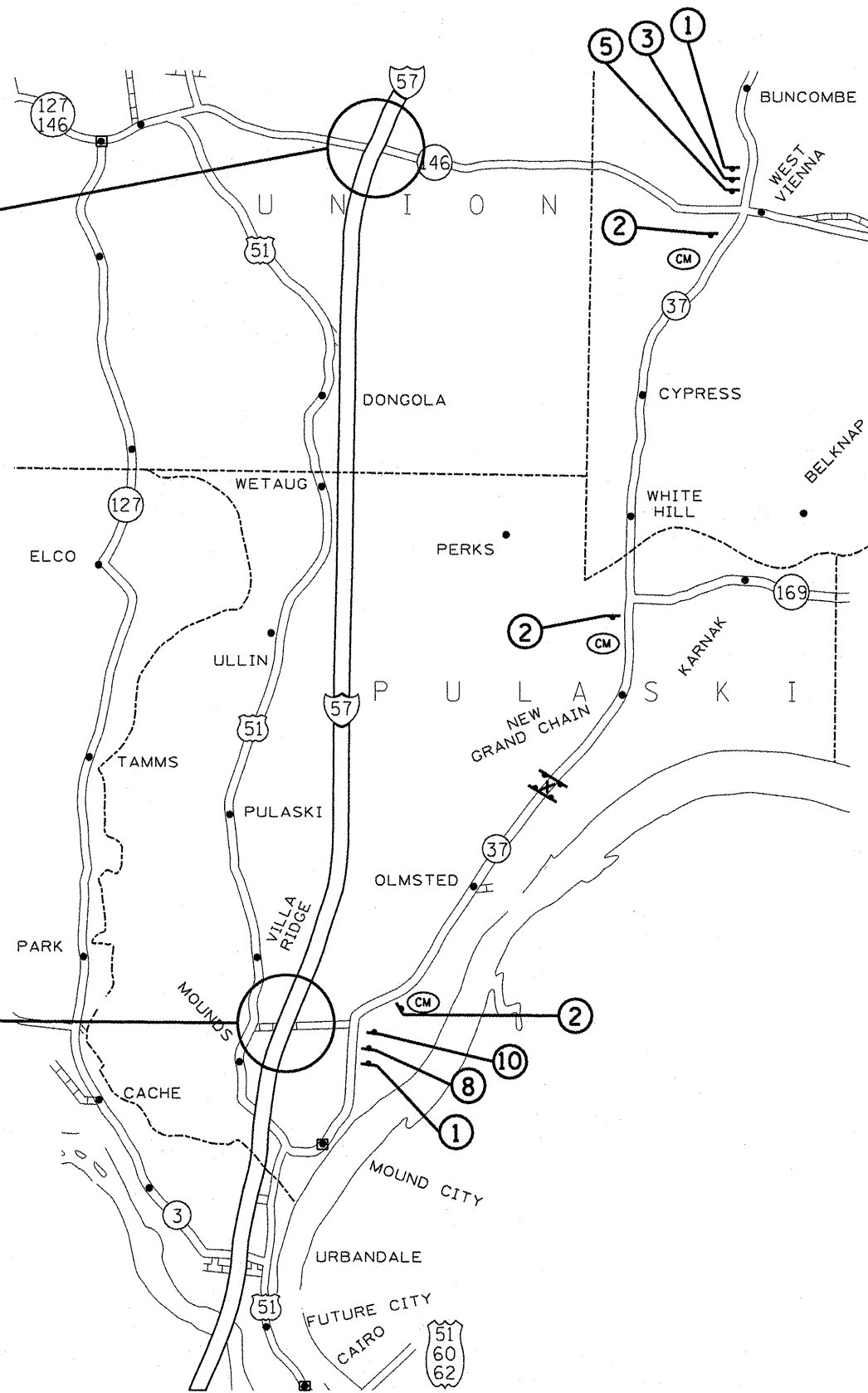
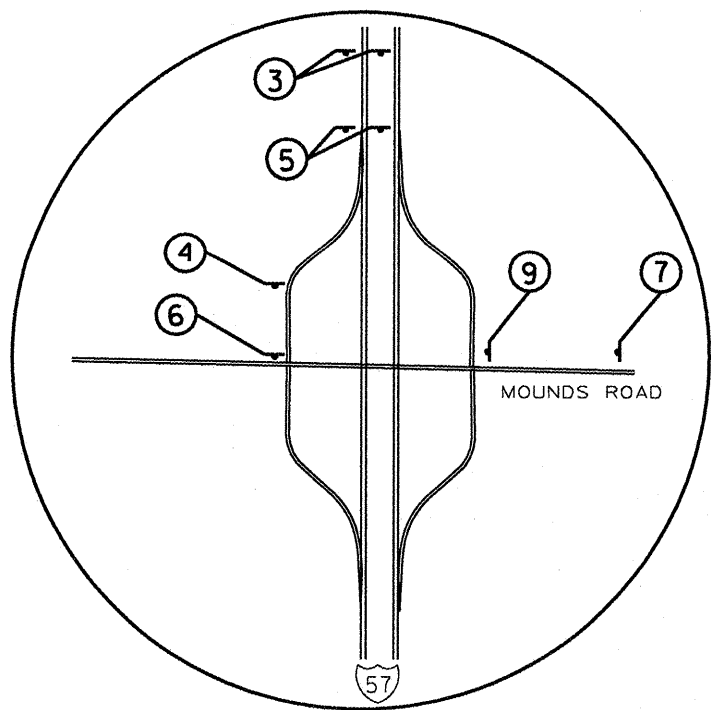
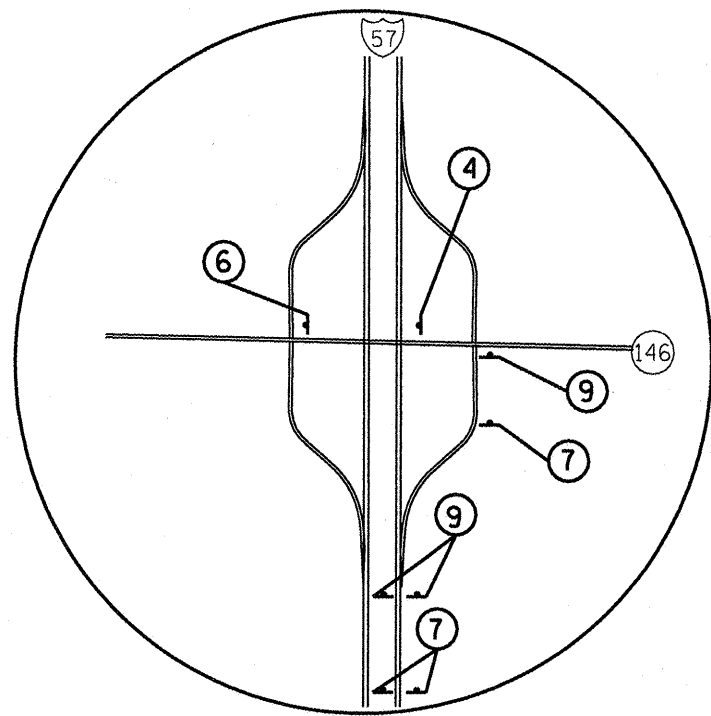
* MATCH EXISTING ELEVATIONS

FILE NAME =	USER NAME = krenzjc	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CULVERT DETAIL			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
et\pwork\PWIDOT\KRAZJC\d0155533\78158-shr-pln.dgn	DRAWN -	REVISED -	726					(1201)-1	PULASKI	14	9	
PLOT SCALE = 100.0000' / IN.	CHECKED -	REVISED -	CONTRACT NO. 78158									
PLOT DATE = 12/8/2009	DATE -	REVISED -	SCALE:		SHEET NO.	OF	SHEETS	STA.	TO STA.	ILLINOIS FED. AID PROJECT		

CULVERT DETAIL



FILE NAME =	USER NAME = krenzja	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CULVERT DETAIL			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
ca\pwwork\pwwid\KCRANZJC\d0155533\78158-shs-pln.dgn	DRAWN -	REVISED -	726					(1201-1)	PULASKI	14	10	
PLOT SCALE = 100.0000' / IN.	CHECKED -	REVISED -	SCALE: SHEET NO. OF SHEETS STA. TO STA.			CONTRACT NO. 78158						
PLOT DATE = 12/1/2009	DATE -	REVISED -	ILLINOIS FED. AID PROJECT									



CM CHANGEABLE MESSAGE SIGN LOCATION

X LOCATION OF ROAD CLOSED

FILE NAME =	USER NAME = krenz.jc	DESIGNED -	REVISED -
at\pw_work\PWIDOT\KRAZJC\d0155533\78158	ght.pln.dgn	DRAWN -	REVISED -
PLOT SCALE = 100,0000' / IN.	CHECKED -	REVISED -	REVISED -
PLOT DATE = 11/20/2009	DATE -	REVISED -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

DETOUR

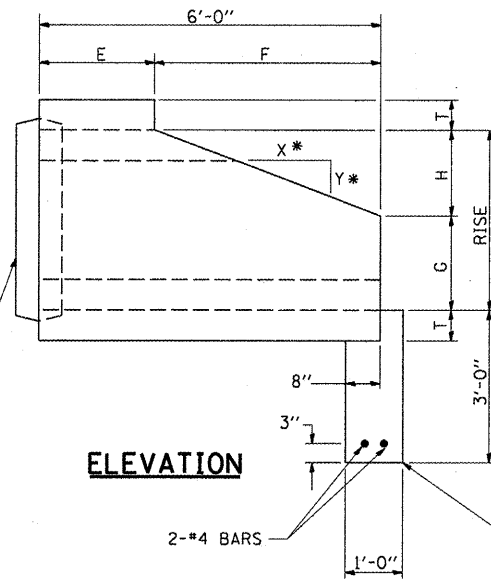
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
726	(120)1-1	PULASKI	14	11
CONTRACT NO. 78158				
ILLINOIS FED. AID PROJECT				

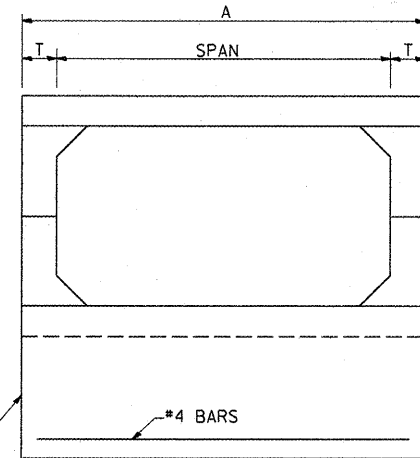
DETAIL OF PRECAST CONCRETE BOX CULVERT END SECTION

DIMENSIONS **

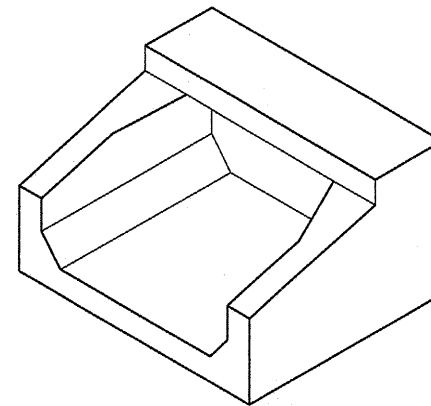
SPAN X RISE	T (INCHES)	A (FT.-IN.)	B (FT.-IN.)	C (INCHES)	E (FT.-IN.)	F (FT.-IN.)	G (FT.-IN.)	H (FT.-IN.)	SLOPE (X:Y)
2' X 2'	4	2-8	2-8	4	3-0	3-0	1-0	1-0	3:1
3' X 2'	4	3-8	2-8	4	3-0	3-0	1-0	1-0	3:1
3' X 3'	4	3-8	3-8	4	2-0	4-0	1-8	1-4	3:1
4' X 2'	5	4-10	2-10	5	3-0	3-0	1-0	1-0	3:1
4' X 3'	5	4-10	3-10	5	2-0	4-0	1-8	1-4	3:1
4' X 4'	5	4-10	4-10	5	2-0	4-0	2-0	2-0	2:1
5' X 2'	6	6-0	3-0	6	3-0	3-0	1-0	1-0	3:1
5' X 3'	6	6-0	4-0	6	2-0	4-0	1-8	1-4	3:1
5' X 4'	6	6-0	5-0	6	2-0	4-0	2-0	2-0	2:1
5' X 5'	6	6-0	6-0	6					
6' X 2'	7	7-2	3-2	7	3-0	3-0	1-0	1-0	3:1
6' X 3'	7	7-2	4-2	7	2-0	4-0	1-8	1-4	3:1
6' X 4'	7	7-2	5-2	7	2-0	4-0	2-0	2-0	2:1
6' X 5'	7	7-2	6-2	7	2-0	4-0	3-0	2-0	2:1
6' X 6'	7	7-2	7-2	7	2-0	4-0	4-0	2-0	2:1
7' X 4'	8	8-4	5-4	8	2-0	4-0	2-0	2-0	2:1
7' X 5'	8	8-4	6-4	8					
7' X 6'	8	8-4	7-4	8					
7' X 7'	8	8-4	8-4	8					
8' X 4'	8	9-4	5-4	8	2-0	4-0	2-0	2-0	2:1
8' X 5'	8	9-4	6-4	8					
8' X 6'	8	9-4	7-4	8					
8' X 7'	8	9-4	8-4	8					
8' X 8'	8	9-4	9-4	8					
9' X 5'	9	10-6	6-6	9					
9' X 6'	9	10-6	7-6	9					
9' X 7'	9	10-6	8-6	9					
9' X 8'	9	10-6	9-6	9					
9' X 9'	9	10-6	10-6	9					
10' X 5'	10	11-8	6-8	10					
10' X 6'	10	11-8	7-8	10					
10' X 7'	10	11-8	8-8	10					
10' X 8'	10	11-8	9-8	10					
10' X 9'	10	11-8	10-8	10					
10' X 10'	10	11-8	11-8	10					
11' X 4'	11	12-10	5-10	11					
11' X 6'	11	12-10	7-10	11					
11' X 8'	11	12-10	9-10	11					
11' X 10'	11	12-10	11-10	11					
11' X 11'	11	12-10	12-10	11					
12' X 4'	12	14-0	6-0	12					
12' X 6'	12	14-0	8-0	12					
12' X 8'	12	14-0	10-0	12					
12' X 10'	12	14-0	12-0	12					
12' X 12'	12	14-0	14-0	12					



*2:1 SLOPE MINIMUM

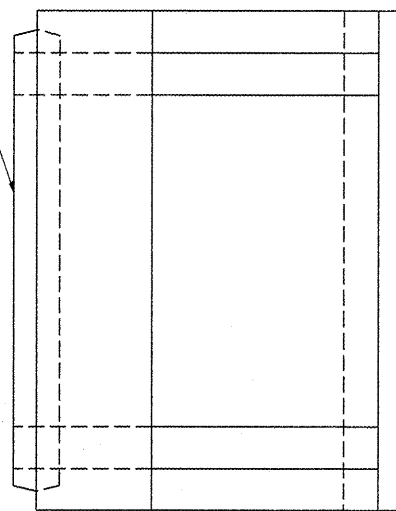


END VIEW

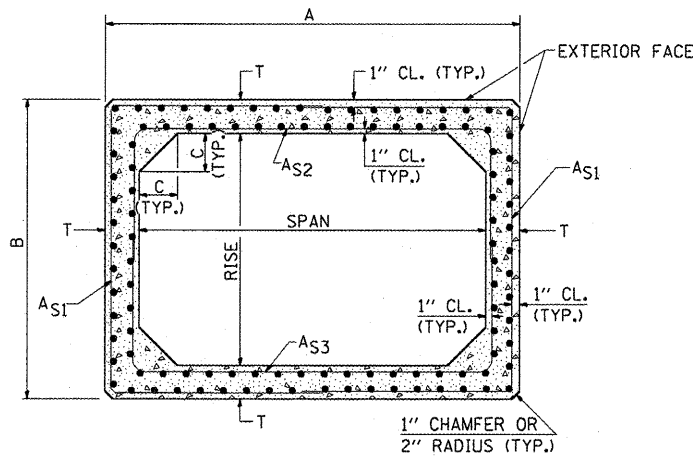


ISOMETRIC

END CONNECTION TO FIT PRECAST BOX CULVERT (BELL OR SPIGOT MAY BE OMITTED WHEN COLLARING TO AN EXISTING BOX OR HEADWALL.)



PLAN



CROSS SECTION

GENERAL NOTES

SHOP PLANS FOR THE REINFORCEMENT SHALL BE SUBMITTED IN ACCORDANCE WITH THE REQUIREMENTS OF ARTICLE 504.01 OF THE STANDARD SPECIFICATIONS.

MINIMUM CONCRETE STRENGTH SHALL BE 5000 PSI AFTER 28 DAYS.

THE JOINTS OF THE PRECAST BOX SECTIONS SHALL BE SEALED WITH MASTIC IN ACCORDANCE WITH ARTICLE 1055.01 OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.

THE TERMS AS1, AS2, & AS3 DENOTE THE REQUIRED STEEL AREAS FOR REINFORCEMENT AS SPECIFIED IN AASHTO M259. REINFORCEMENT SHALL BE WELDED WIRE FABRIC CONFORMING TO AASHTO M55-81.

** NOTE:

THE DIMENSIONS INDICATED ARE FOR END SECTIONS THAT ARE TO BE USED WITH PRECAST BOX CULVERT SECTIONS DESIGNED FOR 2' OR MORE OF FILL. THE DIMENSIONS MUST BE MODIFIED FOR THE END SECTION TO BE COMPATIBLE WITH PRECAST CULVERT SECTIONS DESIGNED FOR LESS THAN 2' OF FILL.

REVISIONS	
DRAWN	9-8-89
REVISED	3-27-90
REVISED	6-14-94
REVISED	8-16-94
REVISED	01-10-07
RESIZED	5-7-08

STD. 9-50

FILE NAME =	USER NAME = kranzjo	DESIGNED -	REVISED -
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PLOT SCALE = 100.0000' / IN.		CHECKED -	REVISED -
PLOT DATE = 11/28/2009		DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**DETAIL - PRECAST BOX CULVERT
END SECTION**

SCALE: SHEET NO. OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
726	(120)I-1	PULASKI	14	12
CONTRACT NO. 78158				
ILLINOIS FED. AID PROJECT				

DETAIL OF PRECAST CONCRETE BOX CULVERT SECTION

(WITH COVER 2 FEET OR GREATER -
AASHTO DESIGNATION M259)
DESIGN LOADING: HS-20-44

GENERAL NOTES

SHOP PLANS FOR THE REINFORCEMENT SHALL BE SUBMITTED IN ACCORDANCE WITH THE REQUIREMENTS OF ARTICLE 504.04 OF THE STANDARD SPECIFICATIONS.

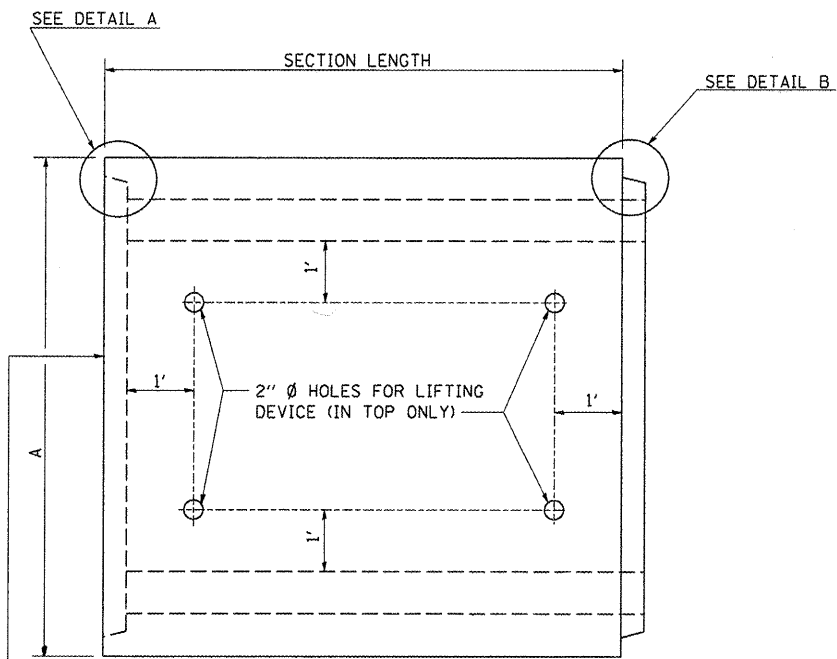
MINIMUM CONCRETE STRENGTH SHALL BE 5000 PSI AFTER 28 DAYS.

THE JOINTS OF THE PRECAST BOX SECTIONS SHALL BE SEALED WITH MASTIC IN ACCORDANCE WITH ARTICLE 1055.01 OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.

LIFTING HOLES SHALL BE FILLED WITH CONCRETE PLUGS AND MASTIC AFTER THE BOX SECTIONS ARE IN PLACE.

THE TERMS AS1, AS2, & AS3 DENOTE THE REQUIRED STEEL AREAS FOR REINFORCEMENT AS SPECIFIED IN AASHTO M259. REINFORCEMENT SHALL BE WELDED WIRE FABRIC CONFORMING TO AASHTO M55-81.

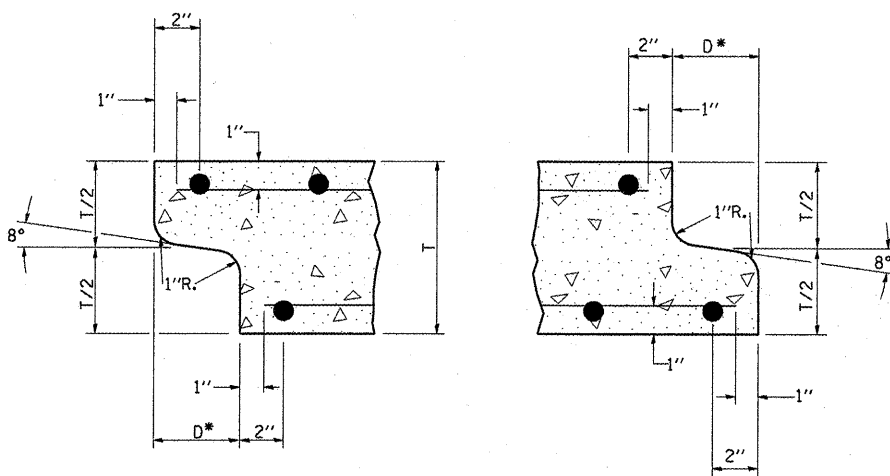
DRAINAGE OPENINGS SHALL BE PROVIDED IN ACCORDANCE WITH ARTICLE 503.11 OF THE STANDARD SPECIFICATIONS. LOCATION AND SPACING OF THE OPENINGS SHALL BE SHOWN ON THE SHOP DRAWINGS.



WHEN EXTENDING AN EXISTING BOX, PLACE THIS END AGAINST THE EXISTING HEADWALL

PLAN

LOCATION OF LIFTING HOLES MAY BE VARIED AS NEEDED TO CLEAR REINFORCEMENT.



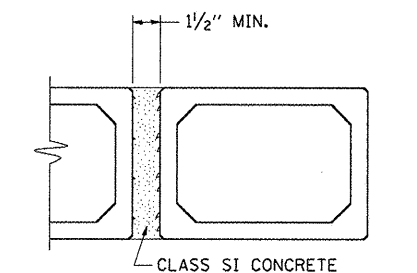
DETAIL A

(TYP. INLET END)

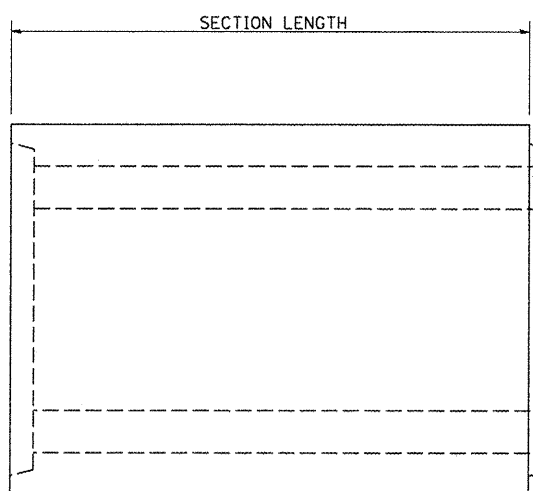
DETAIL B

(TYP. OUTLET END)

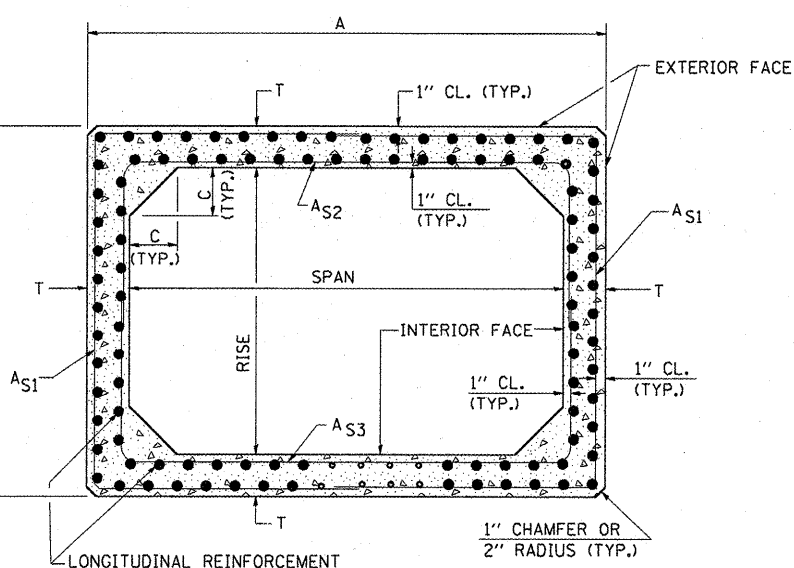
NOTE: INLET AND OUTLET ENDS SHALL BE COMPATIBLE.
*THE D DIMENSION SHALL CONFORM TO THE MANUFACTURER'S STANDARDS.



MULTIPLE UNIT PLACEMENT



ELEVATION



CROSS SECTION

DIMENSIONS

SPAN X RISE	T (INCHES)	A (FT.-IN.)	B (FT.-IN.)	C (INCHES)
2' X 2'	4	2-8	2-8	4
3' X 2'	4	3-8	2-8	4
3' X 3'	4	3-8	3-8	4
4' X 2'	5	4-10	2-10	5
4' X 3'	5	4-10	3-10	5
4' X 4'	5	4-10	4-10	5
5' X 2'	6	6-0	3-0	6
5' X 3'	6	6-0	4-0	6
5' X 4'	6	6-0	5-0	6
5' X 5'	6	6-0	6-0	6
6' X 2'	7	7-2	3-2	7
6' X 3'	7	7-2	4-2	7
6' X 4'	7	7-2	5-2	7
6' X 5'	7	7-2	6-2	7
6' X 6'	7	7-2	7-2	7
7' X 4'	8	8-4	5-4	8
7' X 5'	8	8-4	6-4	8
7' X 6'	8	8-4	7-4	8
7' X 7'	8	8-4	8-4	8
8' X 4'	8	9-4	5-4	8
8' X 5'	8	9-4	6-4	8
8' X 6'	8	9-4	7-4	8
8' X 7'	8	9-4	8-4	8
8' X 8'	8	9-4	9-4	8

SPAN X RISE	T (INCHES)	A (FT.-IN.)	B (FT.-IN.)	C (INCHES)
9' X 5'	9	10-6	6-6	9
9' X 6'	9	10-6	7-6	9
9' X 7'	9	10-6	8-6	9
9' X 8'	9	10-6	9-6	9
9' X 9'	9	10-6	10-6	9
10' X 5'	10	11-8	6-8	10
10' X 6'	10	11-8	7-8	10
10' X 7'	10	11-8	8-8	10
10' X 8'	10	11-8	9-8	10
10' X 9'	10	11-8	10-8	10
10' X 10'	10	11-8	11-8	10
11' X 4'	11	12-10	5-10	11
11' X 6'	11	12-10	7-10	11
11' X 8'	11	12-10	9-10	11
11' X 10'	11	12-10	11-10	11
11' X 11'	11	12-10	12-10	11
12' X 4'	12	14-0	6-0	12
12' X 6'	12	14-0	8-0	12
12' X 8'	12	14-0	10-0	12
12' X 10'	12	14-0	12-0	12
12' X 12'	12	14-0	14-0	12

REVISIONS

DRAWN	9-7-89
REVISED	3-27-90
REVISED	8-16-94
REVISED	01-10-07
RESIZED	5-6-08

STD. 9-48

FILE NAME =	USER NAME = kranzjo	DESIGNED -	REVISED -
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PLOT DATE = 11/28/2009		DATE -	REVISED -

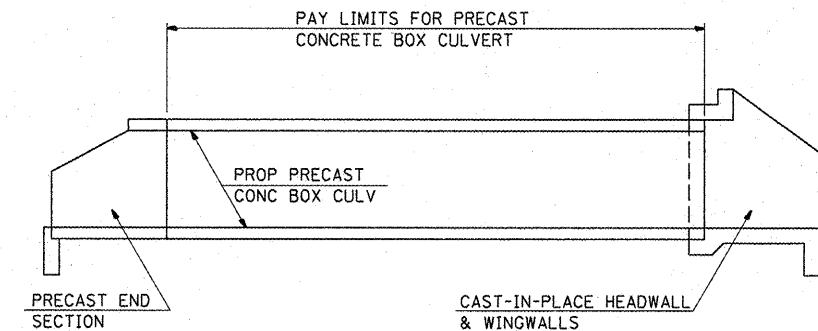
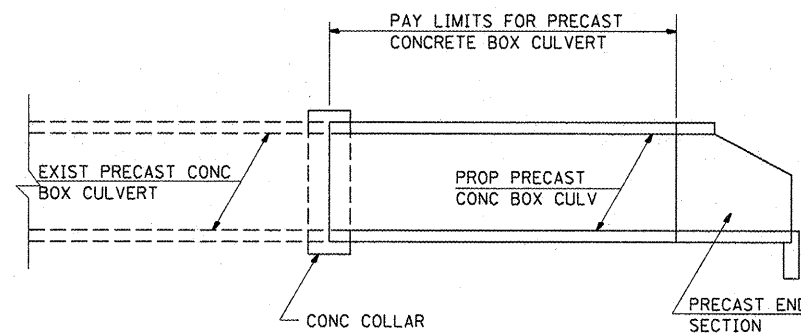
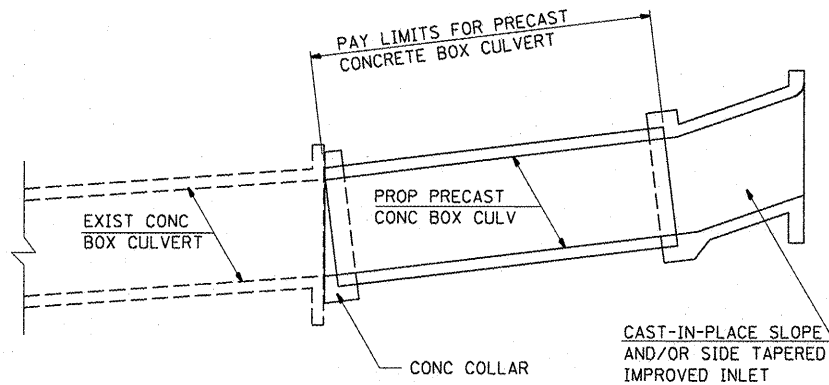
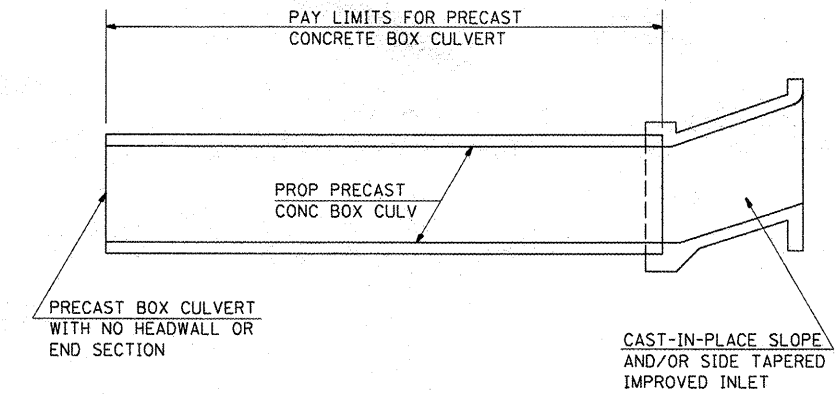
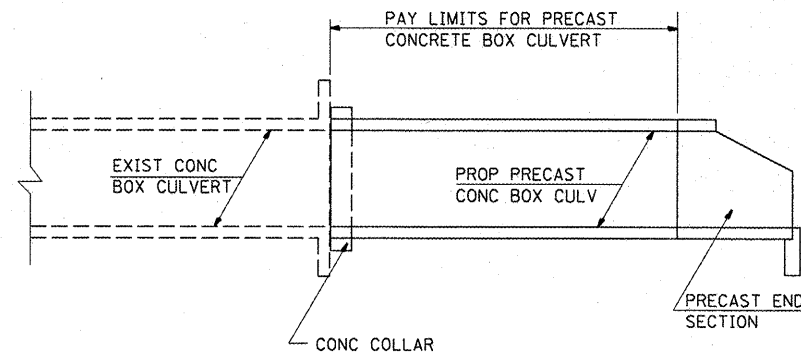
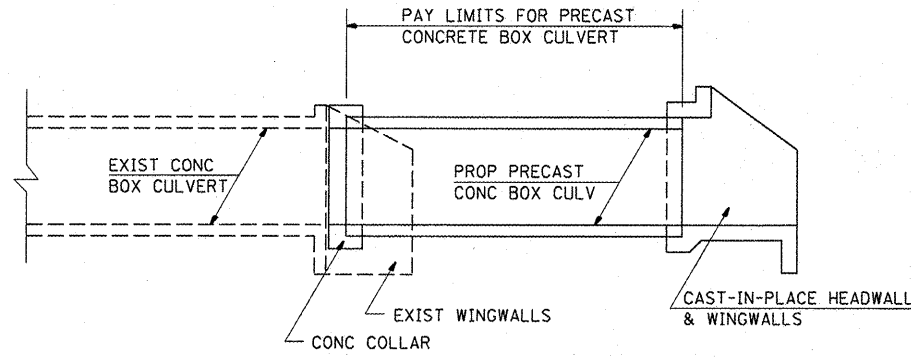
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**DETAIL - PRECAST BOX CULVERT
SECTION (M259)**

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
726	(120)I-1	PULASKI	14	13
				CONTRACT NO. 78158
ILLINOIS FED. AID PROJECT				

SCALE: SHEET NO. OF SHEETS STA. TO STA.

PAYMENT LIMITS FOR PRECAST CONCRETE BOX CULVERTS



CULVERT EXTENSIONS

NEW CULVERTS

NOTES:

WHEN PRECAST CONCRETE BOX CULVERTS ARE SPECIFIED ON THE PLANS, THEY WILL BE MEASURED BY THE FOOT. THE OVERALL LENGTH SHALL BE MEASURED OUT-TO-OUT OF THE PRECAST SEGMENTS ALONG THE CENTERLINE OF THE CULVERT. THE BOX CULVERT END SECTIONS WILL BE MEASURED AS EACH. CAST-IN-PLACE COLLARS WILL NOT BE PAID FOR SEPERATELY, BUT SHALL BE INCLUDED IN THE COST OF THE PRECAST CONCRETE BOX CULVERT. SEE ARTICLE 540.08 OF THE STANDARD SPECIFICATIONS ADOPTED JANUARY 1, 2002.

THE TERM "BOX CULVERT END SECTION" AS USED HEREIN SHALL BE DEFINED AS EITHER PRECAST END SECTIONS OR CAST-IN-PLACE HEADWALLS AND WINGWALLS CONSTRUCTED AS SHOWN IN THE PLANS.

THROUGHOUT THESE PLANS, QUANTITIES SHOWN FOR CLASS SI CONCRETE AND REBARS TO BE USED IN COLLARS, HEADWALLS, WINGWALLS OR IMPROVED INLETS FOR PRECAST CONCRETE BOX CULVERTS ARE PROVIDED FOR INFORMATION AND BIDDING ONLY, AND SHALL NOT BE PAID FOR SEPERATELY.

REVISIONS			
DRAWN	8-14-90	REVISED	8-16-94
REVISED	7-19-91	RESIZED	5-6-08
REVISED	3-11-92		
REVISED	12-9-92		

STD. 9-81

FILE NAME =	USER NAME = kranzjo	DESIGNED -	REVISED -
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PLOT DATE = 11/28/2009		DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**DETAIL - PAYMENT LIMITS FOR
PRECAST CONCRETE BOX CULVERTS**

SCALE: SHEET NO. OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
726	(120)I-1	PULASKI	14	14
CONTRACT NO. 78158				
ILLINOIS FED. AID PROJECT				