04-28-2017 LETTING ITEM 045

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

128-3:1278-1 1 -- 24 1 ILLINOIS CONTRACT NO. 78496

• FAP ROUTE 821 & FAP ROUTE 726
•• JEFFERSON & FRANKLIN

D-99-056-15

FOR INDEX OF SHEETS, SEE SHEET NO. 2 FOR SUMMARY OF QUANTITIES, SEE SHEET NO. 3 - 6

PROPOSED HIGHWAY PLANS

F.A.P. ROUTE 821 & F.A.P. ROUTE 726 (IL 15 & IL 148) SECTION 12B-3;127B-1 PROJECT ACF-000V(087) **BOX CULVERT REPLACEMENTS JEFFERSON & FRANKLIN COUNTY**

C-99-064-15

TRAFFIC DATA

SN 041-7067 (E) 2013 ADT = 2600 WITH 7.3% TRUCKS SPEED LIMIT: 55 MPH

SN 028-7003 (E) 2013 ADT = 5450 WITH 6.2% TRUCKS SPEED LIMIT: 45 MPH

TOWNSHIP

SN 041-7067 (E) - CASNER SN 028-7003 (E) - TYRONE

SN 041-7067 (E)

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0

DESIGN DESIGNATION - 2600 (16) ARTERIAL 0.04 (N/A)

SN 028-7003 (E)

DESIGN DESIGNATION: 5450 (16) ARTERIAL 0.05 (N/A)

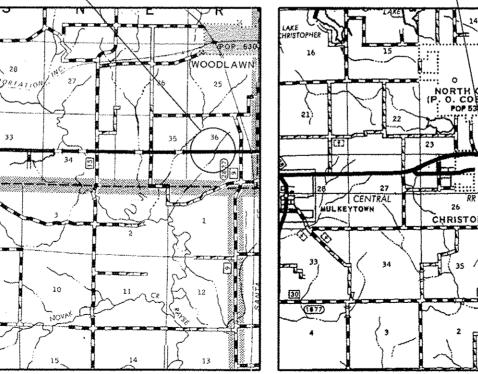
COORDINATE SYSTEM : EAST ZONE

POSTED SPEED: 55 MPH

JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION 1-800-892-0123 OR 811

PROJECT ENGINEER: DAVID PICHE (618) 351-5227

IMPROVEMENT LOCATION STRUCTURE 041-7067 (E) STRUCTURE 041-7097 (P) STRUCTURE 028-7003 (E) STRUCTURE 028-7124 (P) IL 15 OVER DITCH



CHRISTOP

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION SUBMITTED Febru Mouroon M. Addis PE to ENGINEER OF DESIGN AND ENVIRONMENT Mar DIRECTOR OF PROGRAM DEVELOPMENT

LOCATION OF SECTION INDICATED THUS: -

GROSS LENGTH = 90.0 FT. = 0.02 MILES NET LENGTH = 90.0 FT. = 0.02 MILES

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

PROJECT DESIGNER: ADRIAN ADAMS (618) 351-5262

CONTRACT NO. 78496

GENERAL NOTES

- 1) THE THICKNESS OF HOT-MIX ASPHALT MIXTURE SHOWN ON THE PLANS IS THE NOMINAL THICKNESS. DEVIATIONS FROM THE NOMINAL THICKNESS WILL BE PERMITTED WHEN SUCH DEVIATIONS OCCUR DUE TO IRREGULARITIES IN THE EXISTING SURFACE OR BASE ON WHICH THE HOT-MIX ASPHALT MIXTURE IS PLACED.
- 2) 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: (TACK COAT) ON PAVEMENT 0.05 LBS/SQ FT HMA LIFTS 0.025 LBS/S0 FT

(PRIME COAT) AGGREGATE BASES 0.25 L85/SQ FT RIPRAP 1.50 TONS/CU YD EARTH 110 LBS/CU FT

- 3) 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.
- 4) A CALCIUM CHLORIDE ACCELERATOR WILL BE ALLOWED FOR THE PCC PAVEMENT, 10". THE CONCRETE SHALL BE CLASS PP-1 OR PP-2 PER ARTICLE 1020 OF THE STANDARD SPECS.
- 5) REMOVAL OF EXISTING AGGREGATE SHOULDERS SHALL BE INCLUDED IN THE COST OF EARTH EXCAVATION.
- 6) PRIOR TO PLACEMENT OF FINAL PAVEMENT MARKINGS THE RESIDENT ENGINEER SHALL CONTACT THE BUREAU OF OPERATIONS AND ARRANGE FOR INSPECTION AND APPROVAL OF THE PAVEMENT MARKING LAYOUT.
- 7) THE ADVANCE DETECTOR LOOPS ARE TYPICALLY LOCATED 275 FEET IN ADVANCE OF THE STOP BAR. THE BUREAU OF OPERATIONS SHOULD APPROVE THE LOOP LOCATIONS PRIOR TO INSTALLATION.
- 8) COMMITMENTS: NONE AS OF FEBRUARY 3, 2017.

STANDARDS

	000001-06	STANDARD SYMBOLS. ABBREVIATIONS AND PATTERNS
	001001-02	AREAS OF REINFORCEMENT BARS
	001006	DECIMAL OF AN INCH AND OF A FOOT
	420001-08	PAVEMENT JOINTS
	420601-06	24' PCC PAVEMENT
	420701-03	PAVEMENT FABRIC
	630301-07	SHOULDER WIDENING FOR TYPE I (SPECIAL) GUARDRAIL TERMINALS
	666001-01	RIGHT OF WAY MARKERS
	701001-02	OFF-RD OPERATIONS, 2L, 2W, MORE THAN 15' AWAY
	701006-05	OFF-RD OPERATIONS, 2L. 2W. 15' TO 24" FROM PAVEMENT EDGE
	701201-04	LANE CLOSURE, 2L, 2W, DAY ONLY, FOR SPEEDS > 45 MPH
	701316-11	LANE CLOSURE, 2L. 2W, BRIDGE REPAIR, FOR SPEEDS > 45 MPH
	701901-06	TRAFFIC CONTROL DEVICES
	725001-01	OBJECT AND TERMINAL MARKERS
	780001-05	TYPICAL PAVEMENT MARKINGS
وسعر	781001-04	TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS
	782006	GUARDRAIL AND BARRIER WALL REFLECTOR MOUNTING DETAILS
	862001-01	UNINTERRUPTABLE POWER SUPPLY
	BLR 21-9	TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES FOR CONSTRUCTION ON RURAL LOCAL HIGHWAYS

INDEX OF SHEETS

GENERAL NOTES, INDEX OF SHEETS, AND STANDARDS 3-6 SUMMARY OF QUANTITIES 7 SCHEDULES AND DETAILS 8 GEOPAK ELEMENTS IDENTIFICATION SHEET 9 GENERAL PLAN SN 041-7097 (P) 10 FINAL SECTION SN 041-7097 (P) 11 LIMITS OF PORQUE GRANULAR EMBANKMENT AND TYPICAL SECTION WITHIN PAVEMENT REMOVAL SN 041-709 12 R-99-007-16 RICHT OF WAY PLANS 13-16 CROSS SECTIONS SN 041-7097 (P) 17-18 PRECAST CONCRETE BOX CULVERT APRON END SECTION DETAILS SN 041-7097 (P)	
SCHEDULES AND DETAILS GEOPAK ELEMENTS IDENTIFICATION SHEET GENERAL PLAN SN 041-7097 (P) FINAL SECTION SN 041-7097 (P) LIMITS OF POROUS GRANULAR EMBANKMENT AND TYPICAL SECTION WITHIN PAVEMENT REMOVAL SN 041-709 R-99-007-16 RIGHT OF WAY PLANS CROSS SECTIONS SN 041-7097 (P)	
GEOPAK ELEMENTS IDENTIFICATION SHEET GENERAL PLAN SN 041-7097 (P) FINAL SECTION SN 041-7097 (P) LIMITS OF POROUS GRANULAR EMBANKMENT AND TYPICAL SECTION WITHIN PAVEMENT REMOVAL SN 041-709 R-99-007-16 RIGHT OF WAY PLANS CROSS SECTIONS SN 041-7097 (P)	
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FINAL SECTION SN 041-7097 (P) LIMITS OF POROUS GRANULAR EMBANKMENT AND TYPICAL SECTION WITHIN PAVEMENT REMOVAL SN 041-709 R-99-007-16 RIGHT OF WAY PLANS CROSS SECTIONS SN 041-7097 (P)	
11 LIMITS OF POROUS GRANULAR EMBANKMENT AND TYPICAL SECTION WITHIN PAVEMENT REMOVAL SN 041-709 12 R-99-007-16 RIGHT OF WAY PLANS 13-16 CROSS SECTIONS SN 041-7097 (P)	
12 R-99-007-16 RICHT OF WAY PLANS 13-16 CROSS SECTIONS SN 041-7097 (P)	
13-16 CROSS SECTIONS SN 041-7097 (P)	(P)
17-18 PRECAST CONCRETE BOX CULVERT APRON END SECTION DETAILS SN 041-7097 (P)	
19 GENERAL PLAN SN 028-7124 (P)	
20 TEMPORARY AND FINAL SECTIONS SN 028-7124 (P)	
21 LIMITS OF POROUS GRANULAR EMBANKMENT AND SECTION WITHIN PAVEMENT REMOVAL SN 028-7124 (P)	
22-23 CAST-IN-PLACE APRON END SECTION DETAILS SN 028-7124 (P)	
24 DISTRICT STANDARDS	

Prepared By:

Examined By:

Examined By

Examined By:

Examined By

Examined By:

Examined By

GENERAL NOTES, INDEX OF SHEETS, AND STANDARDS OF SHEETS STA.

TO STA.

SHEET

SECTION COUNTY TOTAL SHEE SHEETS NO. 128-3:1278-1 CONTRACT NO. 78496

ILLIMOIS FED. AID PROJECT * FAP ROUTE 821 & FAP ROUTE 726

* JEFFERSON & FRANKLIN

Section 2	2008 NAME - 838488*	DESIGNED .	REVISED -	
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	PCOT SEAUS = 003.1763 / /A.	CHECKED	REVISED -	DEPARTMENT OF TRANSPORTATION
TECTION E	१८३१ ०४९६ - १३ ४८१४३४६	DATE -	REVISED -	

SUMMARY OF QUANTITIES

SECTION

128-3:1278-1

COUNTY

			FUNDING:	80% FED / 20% STATE	80% FED / 20% STATE
			LOCATION:	✓ RURAL	✓ RURAL
CODE	ITCH DECEDIBLION	LIA: T T	TOTAL	ROADWAY	ROADWAY
NUMBER	ITEM DESCRIPTION	UNIT	QUANTITY	0004	0004
20200100	EARTH EXCAVATION	CU YD	826	666	160
20400800	FURNISHED EXCAVATION	CU YD	434	434	
20700220	POROUS GRANULAR EMBANKMENT	CU YD	806	546	160
25000200	SEEDING, CLASS 2	ACRE	0. 25	0.20	0.05
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	23	18	. 5
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	23	18	5
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	23	18	5
25000700	AGRICULTURAL GROUND LIMESTONE	TON	0.5	0.4	0. 1
25100115	MULCH, METHOD 2	ACRE	0.25	0.20	0.05
25100630	EROSION CONTROL BLANKET	SO YD	965	882	83
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	20	20	
28000400	PERIMETER EROSION BARRIER	FOOT	697	515	182

12

FILE NAME c USER NAME a adomasm DESIGNED - REVISED - PAPE OF ILLINOIS SUMMARY OF QUANTITIES F.A.P. RTE. STATE OF ILLINOIS SUMMARY OF QUANTITIES

SUMMARY OF QUANTITIES - CONT

COUNTY:	JEFFERSON	FRANKLIN
STRUCTURE:	SN 041-7067	SN 028-7003
FUNDING:	80% FED / 20% STATE	80% FED / 20% STATE
LOCATION:	RURAL	RURAL
TOTAL	ROADWAY	ROADWAY
OUANTITY	0004	0004
94		94

			FUNDING:	80% FED / 20% STATE	80% FED / 20% STATE
			LOCATION:	RURAL	RURAL
CODE NUMBER	ITEM DESCRIPTION	UNIT	TOTAL OUANTITY	ROADWAY 0004	ROADWAY 0004
28100107	STONE RIPRAP, CLASS A4	SQ YD	94		94
	CTOVE OWNER OVERAGE ON LCC AA	50.40		20	
28100707	STONE DUMPED RIPRAP, CLASS A4	SO YD	29	29	
28200200	FILTER FABRIC	SO YD	94		94
42000060	WELDED WIRE REINFORCEMENT	SO YD	261	116	145
42000500	PORTLAND CEMENT CONCRETE PAVEMENT 10"	SO YD	250	116	134
42300200	PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 6 INCH	SO YD	11		1 1
44000100	PAVEMENT REMOVAL	SO YO	261	116	145
48101600	AGGREGATE SHOULDERS, TYPE B 8"	SQ YD	29		29
48300300	PORTLAND CEMENT CONCRETE SHOULDERS 8"	SO YD	330	330	
50102400	CONCRETE REMOVAL	CU YD	59, 5	25. 8	33. 7
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	730		730
54001001	BOX CULVERT END SECTIONS, CULVERT NO. 1	EACH	2	2	

USER NAME = ademsom DESIGNED -REVISED -SECTION COUNTY pwt\\L&84EBIDINTEG.ilinoja.gov:FWIODT\Ocumenta\iOGT Officea\Ojatrict 9\Frojecta\784F@BANNto\CAGaheeta\78496.aht.dgn REVISED -STATE OF ILLINOIS SUMMARY OF QUANTITIES 128-3:1278-1

SUMMARY OF QUANTITIES - CONT ITEM DESCRIPTION	UNIT	STRUCTURE: FUNDING: LOCATION:	SN 041-7067 80% FED / 20% STATE	SN 028-7003 80% FED / 20% STATE
ITEM DESCRIPTION	tika F T	 		00% FED / 20% STATE
ITEM DESCRIPTION	: 153 ? T	LOCATION:		
ITEM DESCRIPTION	1 153 T T		RURAL	RURAL
	UNII	TOTAL	ROADWAY	ROADWAY
		OUANTITY	0004	0004
CONCRETE BOX CULVERTS	CU YD	12.0		12.0
PRECAST CONCRETE BOX CULVERTS 6' X 4'	FOOT	117	63	54
STEEL PLATE BEAM GUARDRAIL, TYPE A. 6 FOOT POSTS	FOOT	200	200	
TRAFFIC BARRIER TERMINAL, TYPE I (SPECIAL) TANGENT	EACH	4	4	
FURNISHING AND ERECTING RIGHT OF WAY MARKERS	EACH	8	8	
MOBILIZATION	LSUM	1.0	0.5	0.5
TRAFFIC CONTROL AND PROTECTION. STANDARD 701316	EACH			1
TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	LSUM	1	1	
TRAFFIC CONTROL AND PROTECTION, STANDARD BLR 21	LSUM	1	Q,S	0.5
TEMPORARY BRIDGE TRAFFIC SIGNALS	EACH	1		1
TERMINAL MARKER - DIRECT APPLIED	EACH	4	4	
PAINT PAVEMENT MARKING - LINE 4"	FOOT	240	130	110
S T T T T T T	TEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS RAFFIC BARRIER TERMINAL. TYPE I (SPECIAL) TANGENT URNISHING AND ERECTING RIGHT OF WAY MARKERS RAFFIC CONTROL AND PROTECTION. STANDARD 701316 RAFFIC CONTROL AND PROTECTION. STANDARD 701201 RAFFIC CONTROL AND PROTECTION. STANDARD BLR 21 EMPORARY BRIDGE TRAFFIC SIGNALS ERMINAL MARKER - DIRECT APPLIED	TEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS FOOT RAFFIC BARRIER TERMINAL, TYPE I (SPECIAL) TANGENT EACH URNISHING AND ERECTING RIGHT OF WAY MARKERS EACH OBILIZATION LSUM RAFFIC CONTROL AND PROTECTION, STANDARD 701316 EACH RAFFIC CONTROL AND PROTECTION, STANDARD 701201 LSUM RAFFIC CONTROL AND PROTECTION, STANDARD BLR 21 LSUM EMPORARY BRIDGE TRAFFIC SIGNALS EACH ERMINAL MARKER - DIRECT APPLIED EACH	TEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS FOOT ZOO RAFFIC BARRIER TERMINAL, TYPE I (SPECIAL) TANGENT EACH 4 URNISHING AND ERECTING RIGHT OF WAY MARKERS EACH 8 OBILIZATION LSUM 1.0 RAFFIC CONTROL AND PROTECTION, STANDARD TO1316 EACH 1 RAFFIC CONTROL AND PROTECTION, STANDARD TO1201 LSUM 1 EMPORARY BRIDGE TRAFFIC SIGNALS EACH 1 EMPORARY BRIDGE TRAFFIC SIGNALS EACH 1 ERMINAL MARKER - DIRECT APPLIED	TEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS FOOT 200 RAFFIC BARRIER TERMINAL. TYPE I (SPECIAL) TANGENT EACH 4 URNISHING AND ERECTING RIGHT OF WAY MARKERS EACH 8 B B RAFFIC CONTROL AND PROTECTION. STANDARD TO1316 EACH 1 RAFFIC CONTROL AND PROTECTION. STANDARD TO1201 LSUM 1. 0 Q. 5 RAFFIC CONTROL AND PROTECTION. STANDARD TO1201 LSUM 1 CASS EMPORARY BRIDGE TRAFFIC SIGNALS EACH 1 ERMINAL MARKER - DIRECT APPLIED EACH 4 4 4 4

* SPECIALTY ITEM

PRE NAME +	USER HAME = adamase	DESIGNED -	REVISEO -			F.A.P. SECTION COUNTY TOTAL SHEET
out the BAEBIORES attrooping as PRICOTY Se	iomanta/1888 Offices/District 9/frojects/784	ORAMN to Collaborta 78496 ans.dg-	REVISED -	STATE OF ILLINOIS	SUMMARY OF QUANTITIES	* 128-3 ₁ 1278-1 ++ 24 5
	PLOT SCALE = 102,0983 ' - 12.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION		CONTRACT NO. 78496
\$210005UNA17E\$	PLOT DATE 4 1/27/2017	DATE	REVISED -		SCALE: SHEET OF SHEETS STA TO STA.	ILLINOIS FED. ALO PROJECT

SUMMARY OF QUANTITIES - CONT

 COUNTY:
 JEFFERSON
 FRANKLIN

 STRUCTURE:
 SN 041-7067
 SN 028-7003

 FUNDING:
 80% FED / 20% STATE
 80% FED / 20% STATE

 LOCATION:
 RURAL
 RURAL

 TOTAL
 ROADWAY
 ROADWAY

				LOCATION:	RURAL	RURAL
	CODE	ITEM DESCRIPTION	UNIT	TOTAL	ROADWAY	ROADWAY
	NUMBER	TIEM DESCRIPTION	VIII	QUANTITY	0004	0004

*	78200005	GUARDRAIL REFLECTORS, TYPE A	EACH	8	8	
*	86200300	UNINTERRUPTABLE POWER SUPPLY. EXTENDED	EACH	1		l
	X0322128	MEMBRANE WATERPROOFING FOR BURIED STRUCTURES	SO YD	122	69	53
	X0327980	PAVEMENT MARKING REMOVAL - WATER BLASTING	SO FT	80	43	37
	X7015005	CHANGEABLE MESSAGE SIGN	CAL DA	120	60	60
クラ						

* SPECIALTY ITEM

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

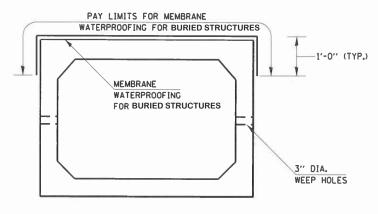
SHEET OF SHEETS STA. TO STA.

		PAVINO	SCHEDULE			
STATION	COMMENTS	PAVEMENT REMOVAL SO YD	PORTLAND CEMENT CONCRETE PAVEMENT, 10''	WELDED WIRE REINF.	PCC SHOULDERS, 8''	AGGREGATE SHOULDERS, TYPE B - 8'
			SO YD	SO YD		
JEFFERSON COUNTY 041-7097						
982+23.6 LT TO 984+55.6 LT		5.8	58	58	165	
981+76. 8 RT TO 983+26. 8 RT	_	58	58	58	165	
FRANKLIN COUNTY 028-7124						
948+53.8 LT TO 948+73.2 LT	DRIVEWAY	11		11		
948+36.0 LT TO 948+86.0 LT		67	67	67		7
948+36.0 RT TO 948+86.0 RT		67	67	67		22
TOTALS		261	250	261	330	2'9

						PAINT PAVEMENT MARKING - LINE 4''				
STATION					NOTES	SOLID WHITE	YELLOW SKIP DASH	SOLID YELLOW		
					FOOT		F00T	FOOT		
JEFFERSON COUNTY										
982+80	RT	TO	983+20	RT		40				
982+80		ТО	983+20		ALONG CENTERLINE		10	40		
982+80	LT	ТО	983+20	LT		40		= 8		
FRANKLIN COUNTY										
948+36	RT	TO	948+86	RT		50				
948+36		TO	948+86		ALONG CENTERLINE		10			
948+36	LT	TO	948+86	LT		50		·-		
	SUBTOTAL						20	40		
			TOTAL				240			

	_									
GUARDRAIL SCHEDULE										
	ST	ATI	ON	TRAFFIC BARRIER TERMINAL, TY 1 SPL TANGENT						
				EACH	FOOT					
JEFI	FER:	SON	COUNTY							
982+39.65	LT	TO	982+89.65	LΤ	1					
982+89.65	LT	TO	983+89.65	LT		100				
983+89.65	LT	TO	984+39.65	LT	1					
		>	**							
981+51.85	RT	TO	982+01.85	RT	1					
982+01.85	RT	TO	983+01.85	RT		100				
983+01.85	RT	TO	983+51.85	RT	1					
	T	DTAI	_S	4	200					

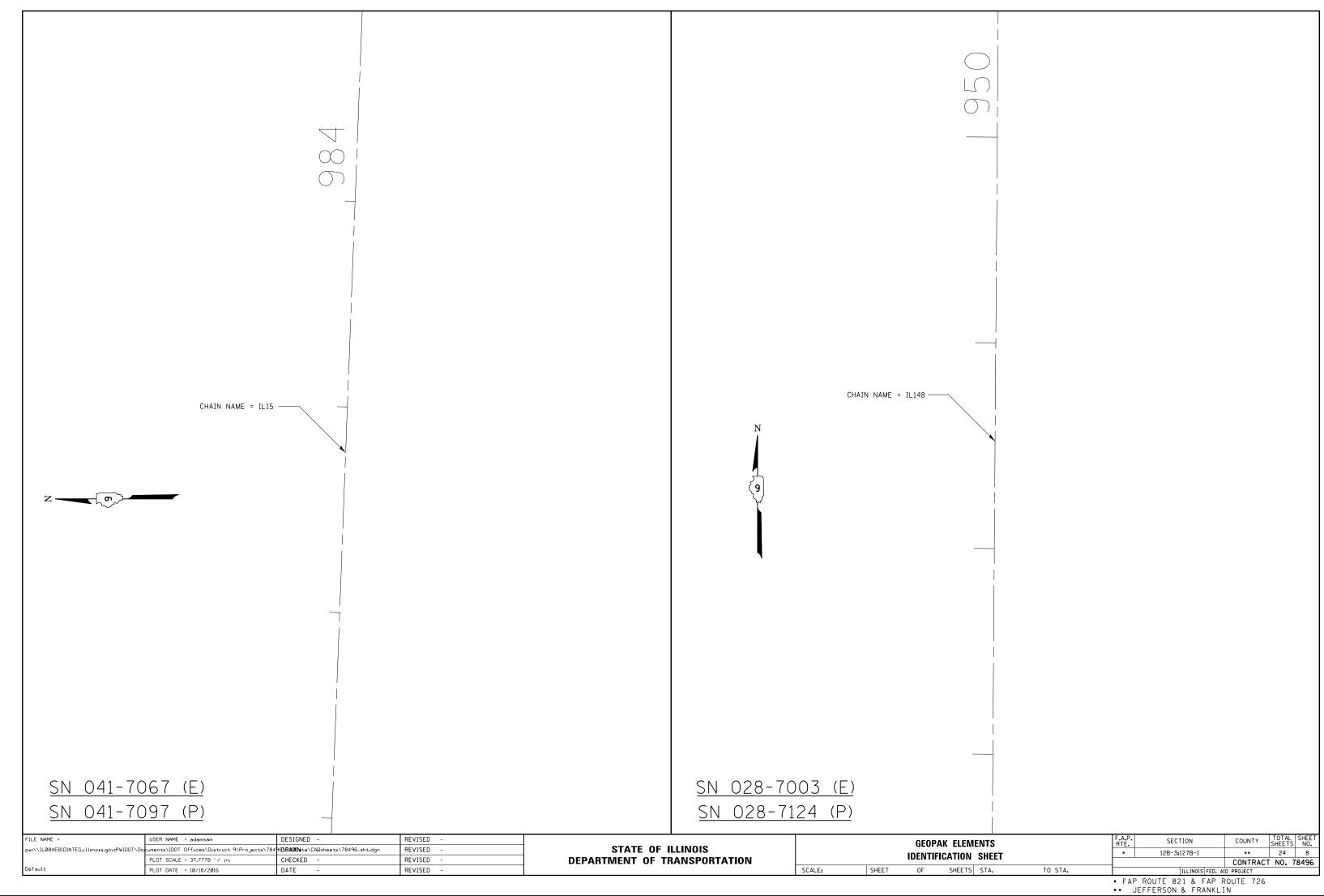
PRECA	ST BOX CULVER	T SCHEDULE	(ASTM C 1	577)			
			DESIGN F	PGE			
STATION	SIZE	SKEW	EDGE OF SHLD. (MIN)	MAXIMUM	BACKFILL REQUIRED		
JEFFERSON COUNTY							
982+96.40 TO 983+03.60	6' X 4'	5	• 6.8′	• 7.5'	628 CU YD		
FRANKLIN COUNTY							
948+56.86 TO 948+65.14	6′ X 4′	30	• 1.3'	• 2.1'	145 CU YD		

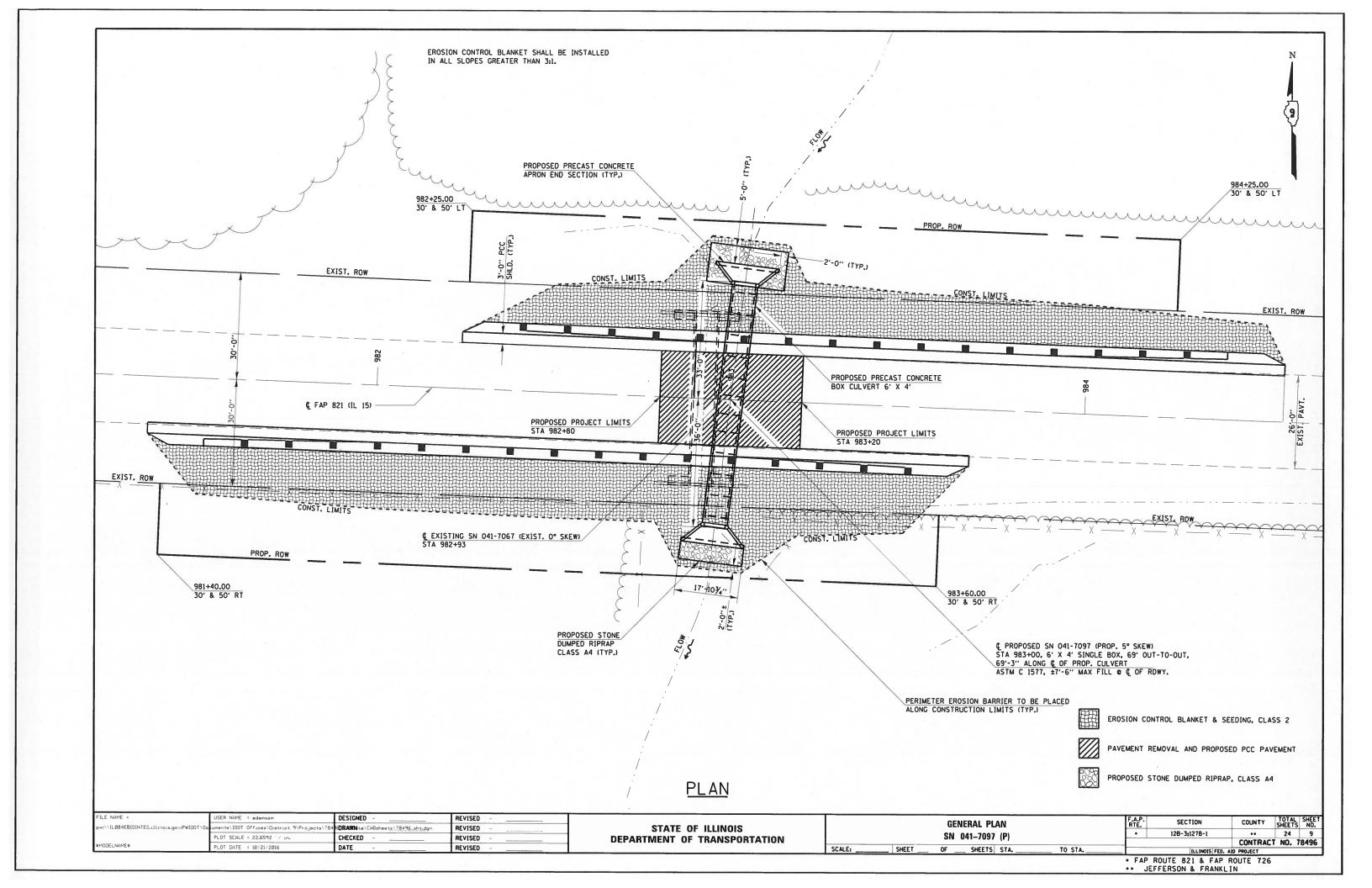


PRECAST CONCRETE
BOX CULVERT

FILE NAME =	USER NAME = adamsam	DESIGNED -	REVISED -			F.A.P.	SECTION	COUNTY	TOTAL SHEET
pw://[LØ84EBIDINTEG.:ll:nois.gov:PWIDOT/Do	cuments\1007 Offices\District 9\Projects\784	BORANN ta\CABsheets\78496_sht.dgn	REVISED -	STATE OF ILLINOIS	SCHEDULES AND DETAILS	RTE.		COUNTY	SHEETS NO.
	PLOT SCALE = 102.9963 '/ in.	CHECKED	REVISED -	DEPARTMENT OF TRANSPORTATION	The second secon	•	128-3;1278-1	CONTRAC	24 7 T NO. 78496
\$MODELNAME\$	PLOT DATE = 10/21/2016	DATE	REVISED -		SCALE: SHEET OF SHEETS STA TO STA	1	ILLINOIS FED. A		1 NU. 18436
		1000	2.00				IEEIMOID . COI A	AD THOUGHT	

FAP ROUTE 821 & FAP ROUTE 726
 JEFFERSON & FRANKLIN





FINAL SECTION

HYDRAULIC DATA

DRAINAGE AREA = 0.20 SQ MI DESIGN WATERWAY OPENING = 24 SQ FT

DESIGN DISCHARGE = 345 CFS

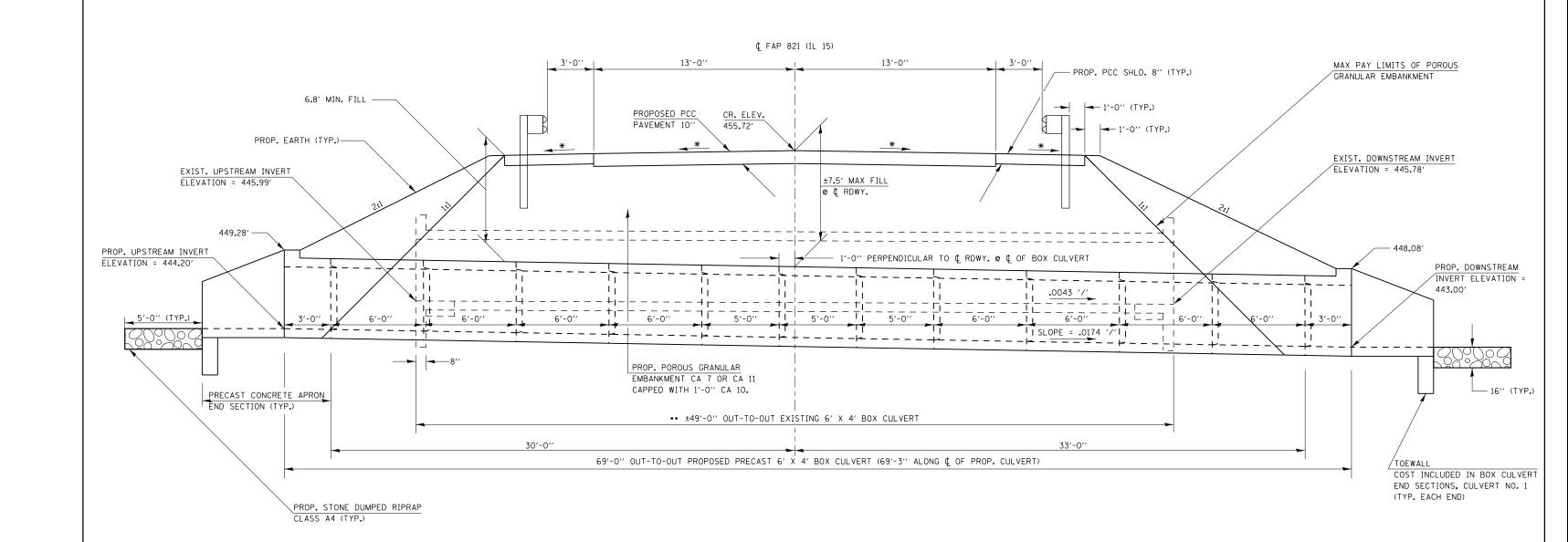
100 YEAR DISCHARGE = 410 CFS

DESIGN HEADWATER ELEVATION = 454.06 FT

100 YEAR HEADWATER ELEVATION = 456.01 FT

* MATCH EXISTING CROSS SLOPES

* * THE REMOVAL OF THE EXISTING BOX CULVERT IS TO BE INCLUDED IN THE COST OF CONCRETE REMOVAL.



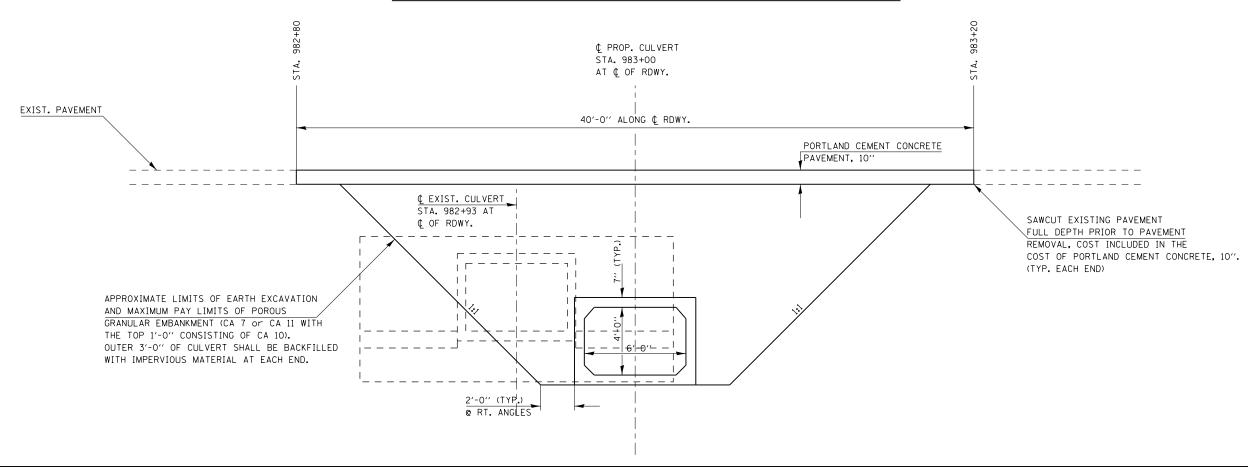
ELEVATION

DIMENSIONS OF BOX CULVERT ARE AT RIGHT ANGLES. PRECAST BOX LOADING HL-93. ASTM C 1577

FILE NAME =	USER NAME = adamsam	DESIGNED -	REVISED -				FINA	AL SECTIO	N		F.A.P.	SECTION	COUNTY	TOTAL SHEE	╗
pw:\\ILØ84EBIDINTEG.:lll:nois.gov:PWIDOT\Do	cuments\IDOT Offices\District 9\Projects\784	REDRAMMita\CABsheets\78496_sht.dgn	REVISED -	STATE OF ILLINOIS							•	12B-3;127B-1	••	24 10	-
	PLOT SCALE = 5.6667 ' / in.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION			21/	041–7097	(P)				CONTRAC*	T NO. 78496	٦
Default	PLOT DATE = 10/18/2016	DATE -	REVISED -		SCALE:	SHEET	OF	SHEETS	STA.	TO STA.		ILLINOIS FED. A	ID PROJECT		1

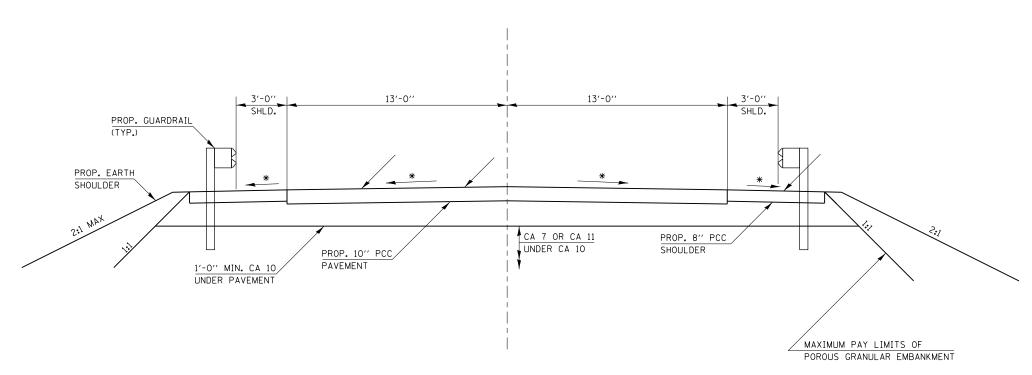
• FAP ROUTE 821 & FAP ROUTE 726
• JEFFERSON & FRANKLIN

LIMITS OF POROUS GRANULAR EMBANKMENT



SECTION WITHIN PAVEMENT REMOVAL

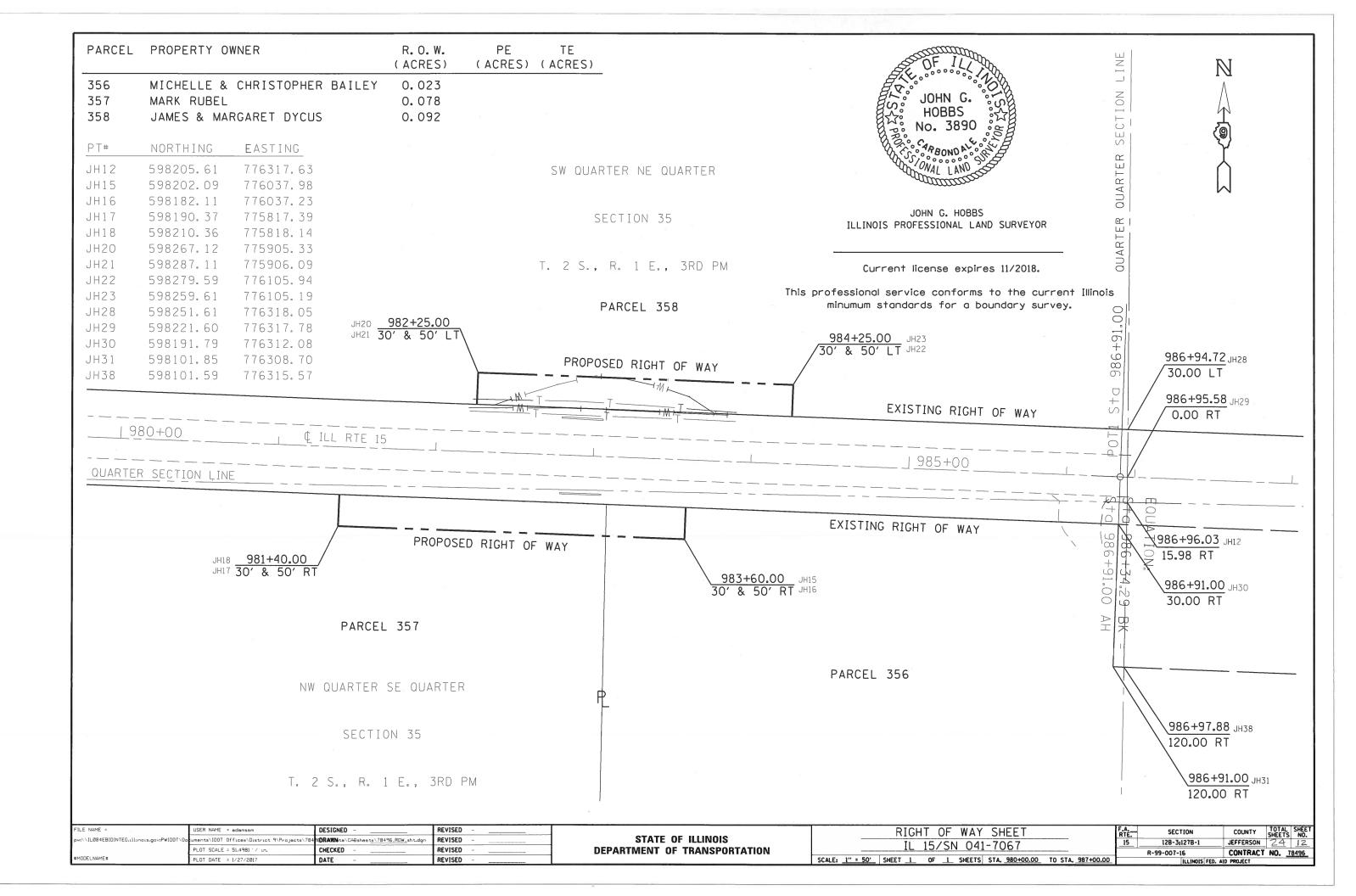
¢ FAP 821 (IL 15)

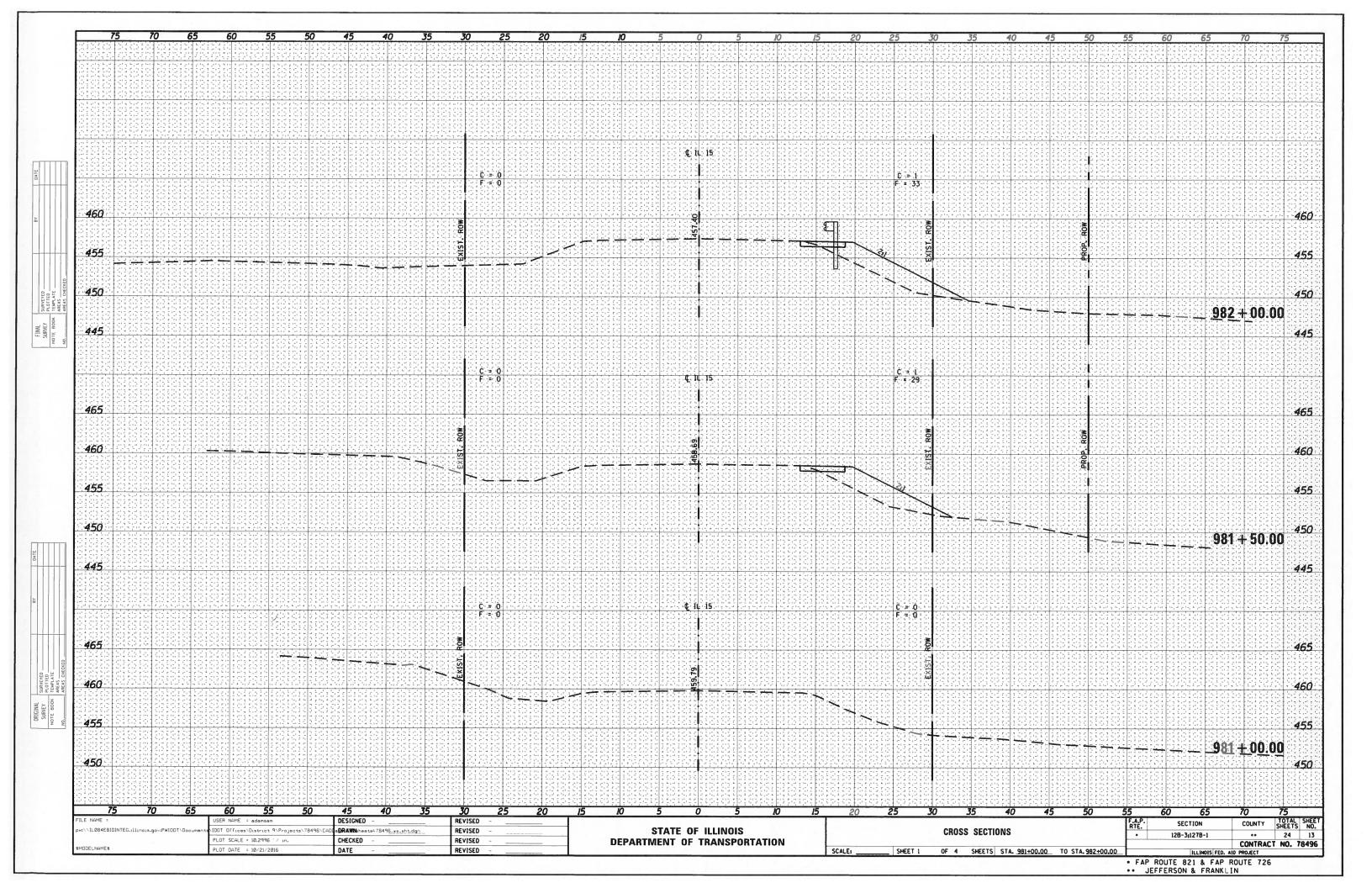


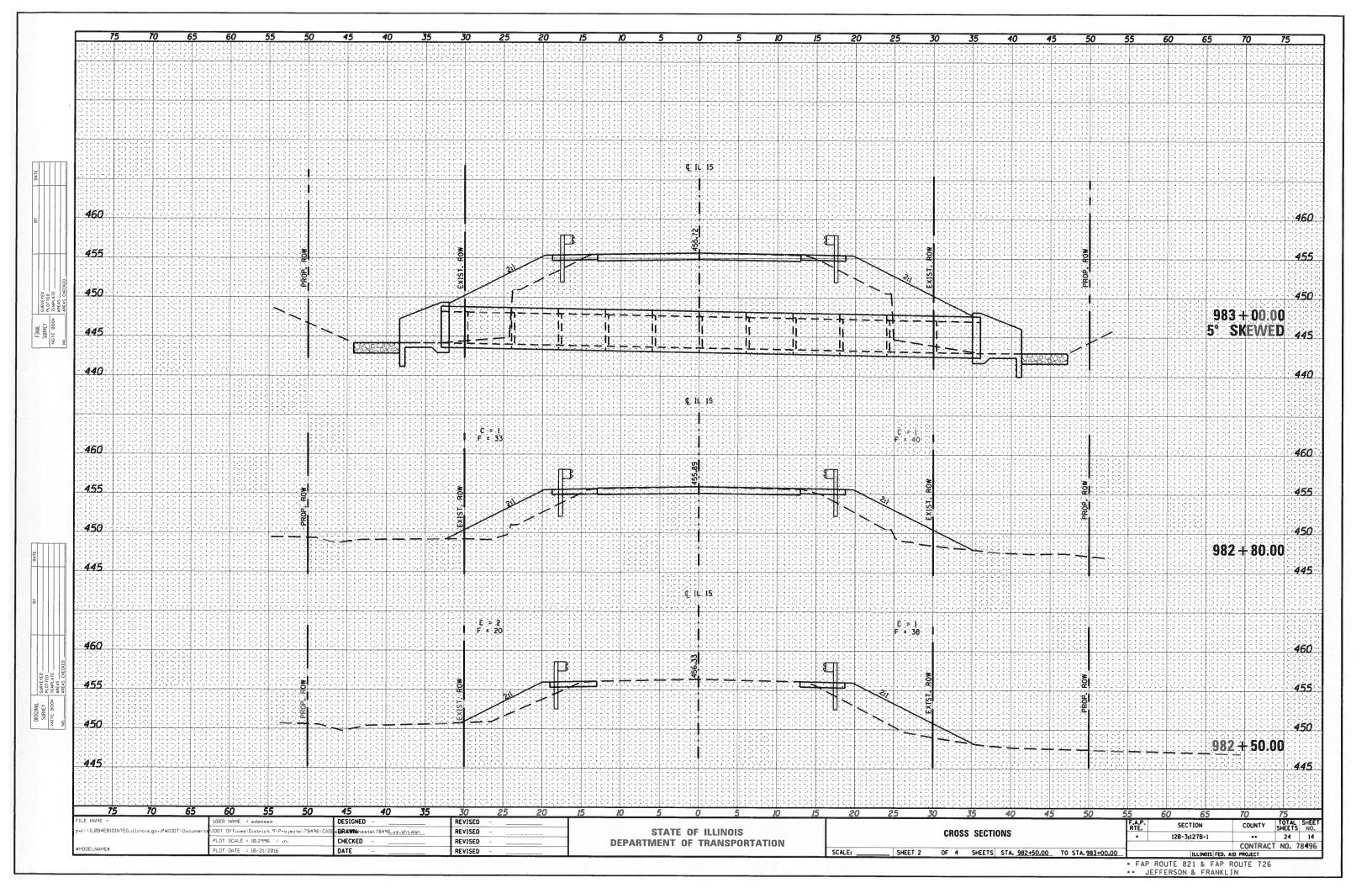
* MATCH EXISTING CROSS SLOPES

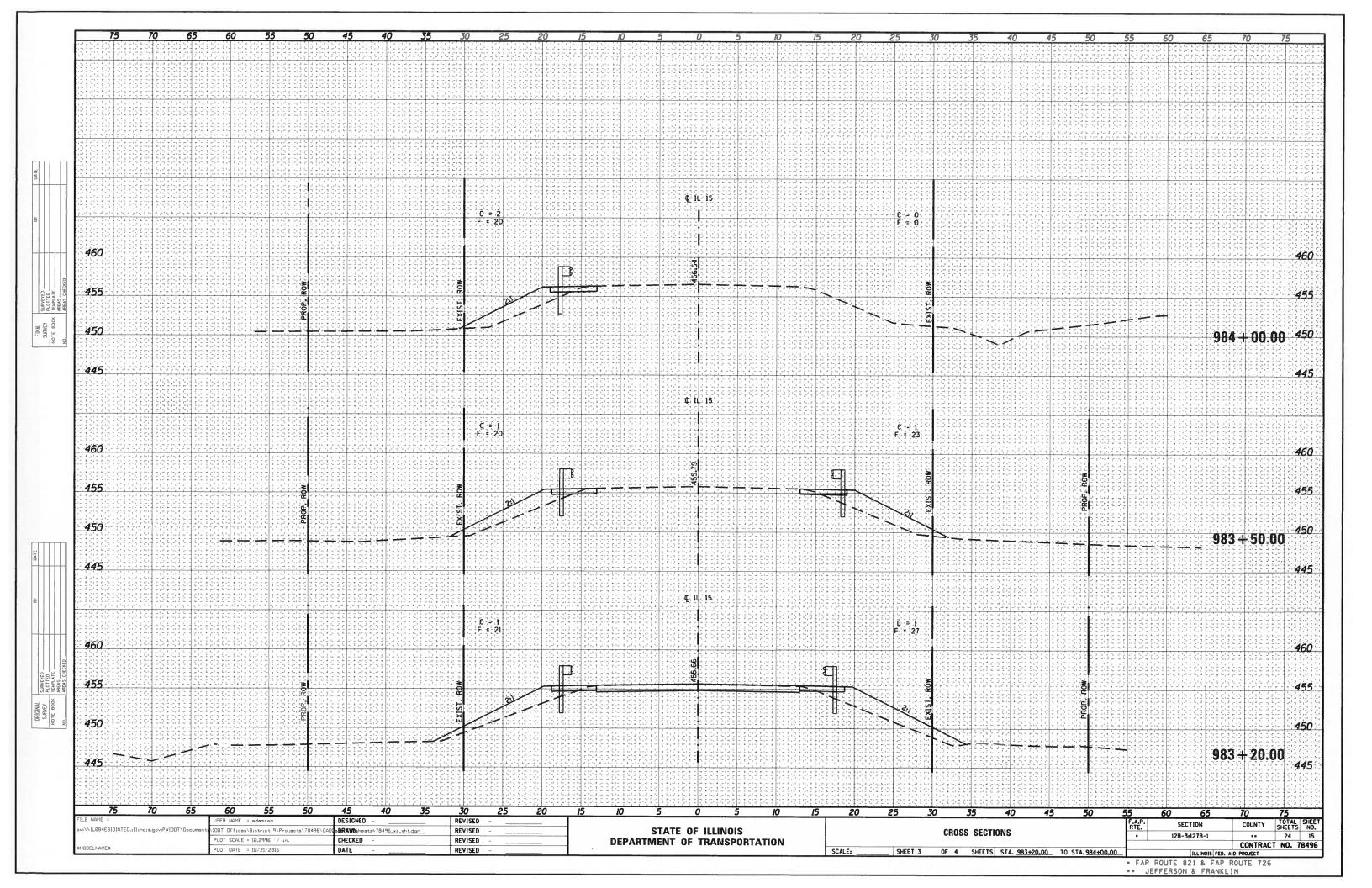
FILE NAME =	USER NAME = adamsam	DESIGNED -	REVISED -		LIM	ITS OF POI	BUIIC CE	RANULAR EMBAN	KMENT AND	F.A.P.	SECTION	COUNTY	TOTAL SHEET
pw:\\ILØ84EBIDINTEG.:lll:nois.gov:PWIDOT\Do	cuments\IDOT Offices\District 9\Projects\784	96)RANN ta\CAÐsheets\78496_sht.dgn	REVISED -	STATE OF ILLINOIS	LIIVI					•	12B-3:127B-1	••	24 11
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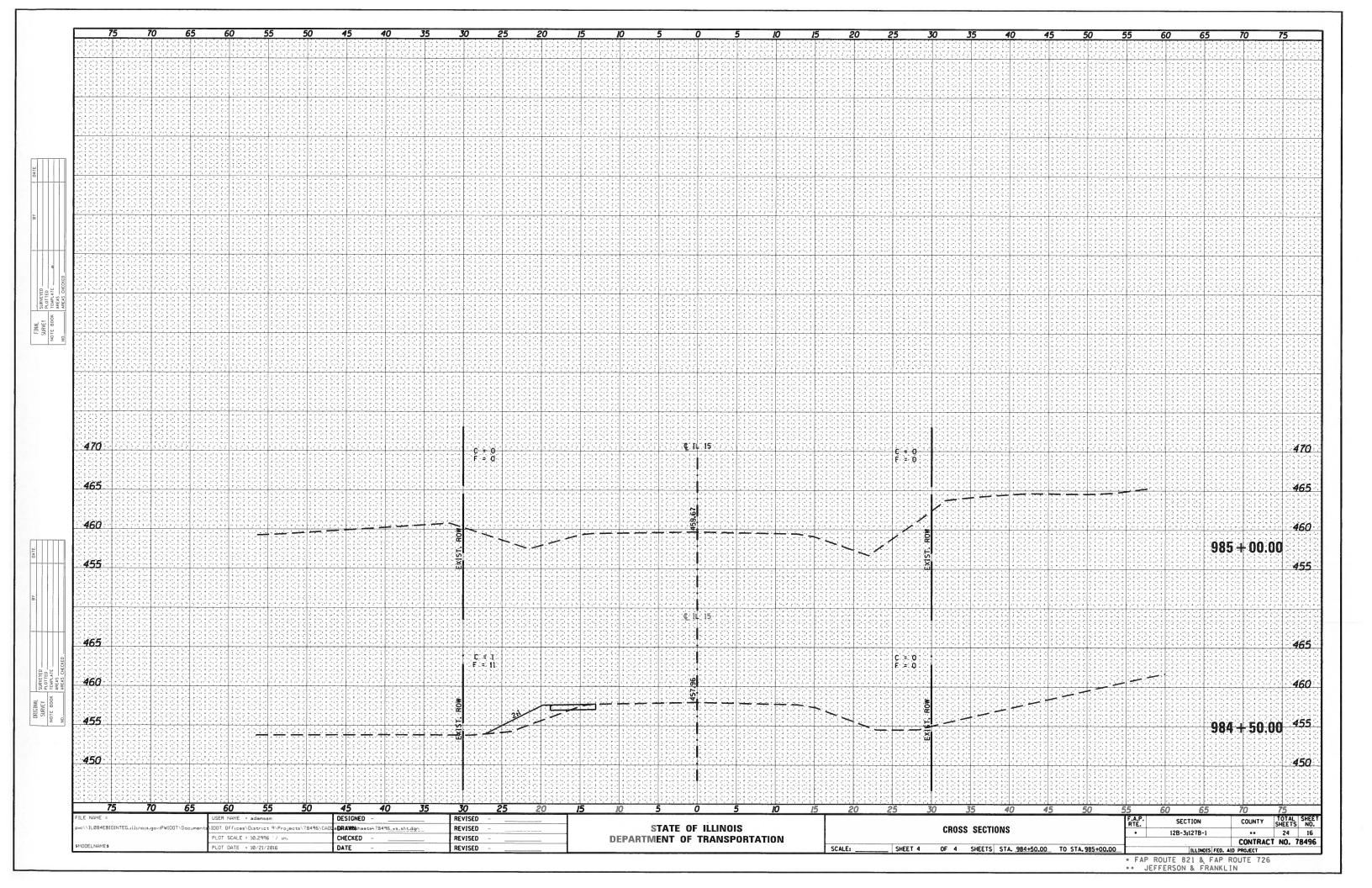
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$4x4 - W6xW6 WWF (R \le 3'-0")$ 4x4 - W12xW12 WWF (R > 3'-0")(typ. each face)

END VIEW

Culvert Ties

(typ.)

10'-0" min. (R > 3'-0") regarding culvert ties. 0 SECTION A-A

See General Notes

6'-0" min. (R $\leq 3'-0"$)

GENERAL NOTES

Box Culvert End Sections shall be constructed according to the requirements of Section 540 of the Standard Specifications except as modified herein. End sections will be paid for at the contract unit price per each for Box Culvert End Sections.

construct the end section in the field using cast-in-place (CIP) construction. For CIP construction, the bottom slab thickness shall be increased by 2" and the clear cover to the bottom mat of reinforcement shall be increased to 3".

Sections shall be according to the requirements for ASTM C 1577 as required for the design of the portion of the culvert within the limits of Precast Concrete Box Culverts except as modified herein.

culvert ties will not be measured for payment but shall be included in the unit price for

Shop drawings that detail slab thickness and reinforcement layout for the Box Culvert End Sections shall be provided to the Engineer for review and approval. Reinforcement bars not detailed herein shall be detailed with a clear distance at the end of the reinforcement not less than l_2 " nor more than 2". For the precast option, it shall be the Contractor's responsibility for determining a method of handling and a construction procedure shall be included on the shop drawings. The Contractor shall determine and detail in the shop drawings any necessary strengthening or stiffening provisions necessary to handle the precast segment. Any required modifications shall be at no extra

All exposed concrete edges shall be chamfered $\frac{3}{4}$ " unless noted otherwise.

The Contractor may use reinforcement bars in lieu of welded wire fabric (WWF). Reinforcement bars shall be limited to the sizes of #3 through #5 bars, a maximum

Reinforcement (circumferential and longitudinal) in the culvert barrel portion of the end section being lapped with reinforcement from the wingwalls or bottom slab of the end section shall not be less than that required by ASTM C 1577 for the design fill height or

Reinforcement bars designated (E) shall be epoxy coated.

having an opening with a clear rise greater than 3 ft. The drain hole shall be located within the lower 1/3 of the clear rise of the box culvert and shall conform to the requirements of Article 503.11 of the Standard Specifications.

The Contractor may furnish the end section as a single precast concrete piece or

Box section dimensions, materials, and reinforcement details for Box Culvert End

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 (R) less than or equal to 3 ft and a span (S) greater than or equal to 10 ft.

All costs associated with furnishing and installing or constructing the toewall and Box Culvert End Sections of the culvert number specified.

charge.

spacing of the lesser of 8" or the member thickness, and shall result in an area of reinforcement equal to or greater than that provided by the WWF. Minimum lap lengths detailed herein are applicable to WWF and reinforcement bars.

the reinforcement detailed for the end section, whichever is greater. Reinforcement bars shall conform to the requirements of ASTM A 706 Gr 60.

Bonded construction joints shall be prepared according to Article 503.09 of the Standard Specifications,

One drain hole shall be provided in each wingwall for end sections of box culverts

APRON END SECTION DIMENSIONS

											1
Span (S)	Rise (R)	T_{t}	Tb	T_s	Α	В	С	D	E	Concrete Cu. Yd.	Culvert Ties Required
3'-0"	2'-0"	7"	6"	4"	3'-4"	2'-2"	2'-1058"	4'-1"	10'-458"	2.8	Yes
3'-0"	2'-0"	4"	4"	4"	3′-1"	2'-1"	2'-778"	3′-9"	9'-11"	2.3	Yes
3'-0"	3'-0"	7"	6"	4"	4'-4"	2'-8"	3'-10 ⁵ 8"	5′-6"	12 - 4 ⁵ 8 "	3.7	Yes
3'-0"	3'-0"	4"	4"	4"	4'-1"	2'-7"	3'-7 ⁷ 8"	5'-2"	11'- 11"	3.1	Yes
4'-0"	2'-0"	7.5"	6"	5"	3'-412"	2'-212"	2'-1138"	4'-2"	11'-8"	3.3	Yes
4'-0"	2'-0"	5"	5"	5"	3'-2"	2'-1"	2'-812"	3'-10"	11'-238"	2.8	Yes
4'-0"	3'-0"	7.5"	6"	5"	4'-412"	2'-8'2"	3'-11 ³ 8"	5'-7"	13'-8'8"	4.2	Yes
4'-0"	3'-0"	5"	5"	5"	4'-2"	2'-7"	3'-812"	5′-3"	13'-238"	3.7	Yes
4'-0"	4'-0"	7.5"	6"	5"	5'-412"	3'-212"	4'-1138"	7'-0"	15'-8'8"	5.3	Yes
4'-0"	4'-0"	5"	5"	5"	5'-2"	3'-1"	4'-858"	6'-8"	15'-2'2"	4.7	Yes
5'-0"	2'-0"	8"	7"	6"	3′-5"	2'-3"	2'-1138"	4'-2"	12'-10"	3.9	Yes
5'-0"	2'-0"	6"	6"	6"	3′-3"	2'-2"	2'-10"	4'-0"	12'-7'4"	3.5	Yes
5'-0"	3'-0"	8"	7"	6"	4'-5"	2'-9"	3'-11 ³ 8	5′-7"	14'-10'8"	4.9	Yes
5'-0"	3'-0"	6"	6"	6"	4'-3"	2'-8"	3'-10"	5′-5"	14'-7'4"	4.5	Yes
5'-0"	4'-0"	8"	7"	6"	5′-5"	3'-3"	4'-11 ³ 8"	7'-0"	16'-10'8"	6.1	Yes
5'-0"	4'-0"	6"	6"	6"	5′-3"	3'-2"	4'-914"	6'-9"	16'-578"	5.5	Yes
5'-0"	5′-0"	8"	7"	6"	6′-5"	3'-9"	5'-11 ³ 8"	8'-5"	18'-10'8"	7.4	Yes
5'-0"	5'-0"	6"	6"	6"	6'-3"	3'-8"	5'-914"	8'-2"	18'-578"	6.8	Yes
6'-0"	2'-0"	8"	7"	7"	3′-5"	2'-3"	2'-1138"	4'-2"	14'-0"	4.3	Yes
6'-0"	2'-0"	7"	7"	7"	3'-4"	2'-2"	2'-10 ⁵ 8"	4'-1"	13'-10 ⁵ 8"	4.2	Yes
6'-0"	3'-0"	8"	7"	7"	4'-5"	2'-9"	3'-11 ³ 8"	5'-7"	16'-0'8"	5.4	Yes
6'-0"	3'-0"	7"	7"	7"	4'-4"	2'-8"	3'-10 ⁵ 8"	5′-6"	15'-10 ⁵ 8"	5.2	Yes
6'-0"	4'-0"	8"	7"	7"	5′-5"	3'-3"	4'-1138"	7'-0"	18'-0'8"	6.5	Yes
6'-0"	4'-0"	7"	7"	7"	5'-4"	3'-2"	4'-1034"	6'-11"	17'-1034"	6.5	Yes
6'-0"	5'-0"	8"	7"	7"	6′-5"	3'-9"	5'-11 ³ 8"	8'-5"	20'-0'8"	8.0	Yes
6'-0"	5'-0"	7"	7"	7"	6'-4"	3'-8"	5'-10 ³ 4"	8'-4"	19'-1034"	7.8	Yes
6'-0"	6'-0"	8"	7"	7"	7′-5"	4'-3"	6'-11'2"	9'-10"	22'-04"	9.5	Yes
6'-0"	6'-0"	7"	7"	7"	7'-4"	4'-2"	6'-1034"	9'-9"	21'-1034"	9.3	Yes
7'-0"	2'-0"	8"	8"	8"	3'-5"	2'-3"	2'-1138"	4'-2"	15'-2"	4.9	Yes
7'-0"	3'-0"	8"	8"	8"	4'-5"	2'-9"	3'-11 ³ 8"	5'-7"	17'-218"	6.1	Yes
7'-0"	4'-0"	8"	8"	8"	5′-5"	3'-3"	4'-1138"	7'-0"	19'-2'8"	7.4	Yes
7'-0"	5'-0"	8"	8"	8"	6′-5"	3'-9"	5'-11 ³ 8"	8'-5"	21'-21/8"	8.9	Yes
7'-0"	6'-0"	8"	8"	8"	7′-5"	4'-3"	6'-11'2"	9'-10"	23'-21/4"	10.6	Yes
8'-0"	2'-0"	8"	8"	8"	3'-5"	2'-3"	2'-1138"	4'-2"	16'-2"	5.3	Yes
8'-0"	3'-0"	8"	8"	8"	4'-5"	2'-9"	3'-11 ³ 8"	5'-7"	18'-218"	6.5	Yes
8'-0"	4'-0"	8"	8"	8"	5′-5"	3'-3"	4'-11 ³ 8"	7'-0"	20'-218"	7.8	Yes
8'-0"	5'-0"	8"	8"	8"	6′-5"	3'-9"	5'-11 ³ 8"	8'-5"	22'-218"	9.3	Yes
8'-0"	6'-0"	8"	8"	8"	7′-5"	4'-3"	6'-11'2"	9'-10"	24'-214"	11.0	Yes
9'-0"	2'-0"	9"	9"	9"	3'-6"	2'-3"	3'-034"	4'-4"	17'-678"	6.2	Yes
9'-0"	3'-0"	9"	9"	9"	4'-6"	2'-9"	4'-034"	5′-9"	19'-678"	7.5	Yes
9'-0"	4'-0"	9'	9"	9"	5′-6"	3'-3"	5'-0 ³ 4"	7'-2"	21'-678"	9.0	Yes
9'-0"	5′-0"	9"	9"	9"	6'-6"	3'-9"	6'-078"	8'-7"	23'-7"	10.6	Yes
9'-0"	6'-0"	9"	9"	9"	7′-6"	4'-3"	7'-0'8"	9'-11"	25'-5 ⁵ 8"	12.4	Yes
10'-0"	2'-0"	10"	10"	10"	3'-7"	2'-4"	3'-1'2"	4'-5"	18'-10'4"	7.1	No
10'-0"	3'-0"	10"	10"	10"	4'-7"	2'-10"	4'-1'2"	5′-10"	20'-10'4"	8.6	No
10'-0"	4'-0"	10"	10"	10"	5′-7"	3'-4"	5'-1'2"	7'-3"	22'-1038"	10.2	Yes
10'-0"	5'-0"	10"	10"	10"	6'-7"	3'-10"	6'-1'2"	8'-8"	24'-1038"	12.0	Yes
10'-0"	6'-0"	10"	10"	10"	7′-7"	4'-4"	7'-1'2"	10'-1"	26'-1038"	13.9	Yes
11'-0"	2'-0"	11"	11"	11"	3′-8"	2'-4"	3'-278"	4'-7"	20'-318"	8.2	No
11'-0"	3'-0"	11"	11"	11"	4'-8"	2'-10"	4'-278"	6'-0"	22'-3'8"	9.8	No
11'-0"	4'-0"	11"	11"	11"	5′-8"	3'-4"	5'-214"	7'-4"	24'-134"	11.5	Yes
11'-0"	6'-0"	11"	11"	11"	7′-8"	4'-4"	7'-214"	10'-2"	28'-178"	15.5	Yes
12'-0"		12"	12"	12"	3'-9"	2'-5"	3'-3 ⁵ 8"	4'-8"	21'-6'2"	9.3	No
12'-0"		12"	12"	12"	4'-9"	2'-11"	4'-3 ⁵ 8"	6'-1"	23'-6'2"	11.1	No
12'-0"		12"	12"	12"	5′-9"	3'-5"	5'-3 ⁵ 8"	7′-6"	25'-6 ⁵ 8"	13.0	Yes
12'-0"		12"	12"	12"	7′-9"	4'-5"	7'-3 ⁵ 8"	10'-4"	29'-658"	17.4	Yes
		1	16	16	1 3	I 7 J	1, 28	10 7	122 08	11.7	163
Note:		_									
Tw	o sets o	ot apri	on end	ı secti	on dimensio	ons are shi	own above i	tor some i	box culvert	sizes due	to the top

Two sets of apron end section dimensions are shown above for some box culvert sizes due to the top and bottom slabs having different thicknesses per ASTM C 1577 for design fill heights less than 2 ft.

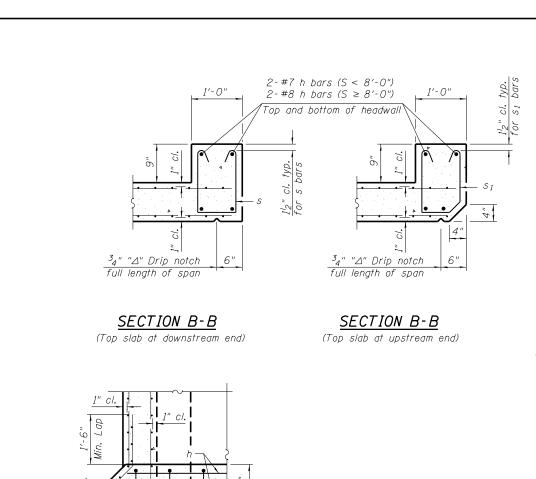
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	PLOT DATE =	CHECKED -	REVISED		SHEET NO. OF SHEETS		ILLINOIS FED.	

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	45° C X	
ľ		\triangle
	$\frac{4x4 - W6xW6 \ WWF \ (T_b \le 5'')}{4x4 - W12xW12 \ WWF \ (T_b > 5'')}$ $(typ. \ top \ and \ bottom)$	
1'-0"	See Section D-D	_ 1'
	E	-
	PLAN	

 $\triangleright B$

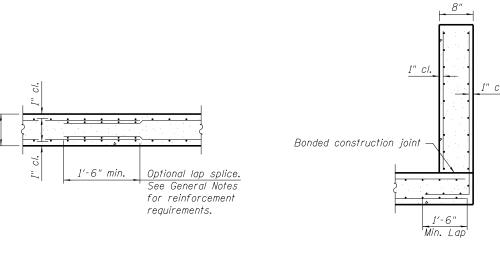
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#4 s or s_1 bars at spacing = T_t

(Spacing need not be less than 8")

SECTION E-E

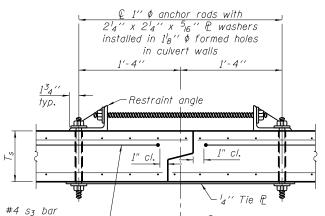


3'' \$\phi\$ corrugated PE pipe per Article 1040.04 of the Standard Specifications. Fill with non-shrink grout placed as shown #4 $v_1(E)$ bars drilled and epoxy grouted into toewall in 9" min. deep holes at 1'-6" cts., max. #4 s₂ bars at 1'-0'' cts., max. 1'-0"

SECTION D-D

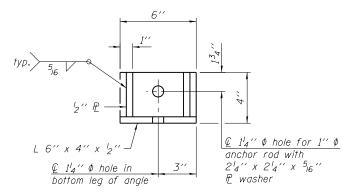
*** This dimension shall be increased by 2" for CIP construction.

(typ. for R > 3'-0")

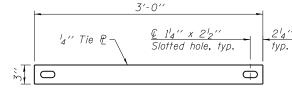


SECTION F-F (Showing culvert tie details)

---- € Joint



RESTRAINT ANGLE DETAIL



TIE PLATE DETAIL

TOEWALL CONSTRUCTION SEQUENCE

- 1. Perform excavation and construct toewall. 2. Backfill accordingly and place bedding for
- precast box culvert end sections.
- 3. Set precast box culvert end section.
- 4. Drill and epoxy grout reinforcement in toewall in accordance with Section 584 of the Standard Specifications.
- 5. Pressure grout voids using non-shrink grout conforming to Section 1024 of the Standard Specifications.
- * The Contractor may furnish a precast or cast-in-place toewall. The Contractor shall be responsible for the strength and stability of the precast toewall during handling. Additional lifting points may be required depending upon the length of the toewall or the Contractor may need to modify the design of the toewall for the proposed handling method.
- ** If soil conditions permit, the sides of the toewall may be poured directly against the soil. The clear cover on the sides of the toewall shall be increased to 3" by increasing the thickness of the toewall.

Notes:

SECTION C-C

1" ϕ anchor rods for the culvert ties shall conform to the requirements of ASTM F1554, Grade 105. Structural steel for the tie plate and restraint angle shall conform to the requirements of Article 1006.04 of the Standard Specifications. All components of the culvert tie detail shall be galvanized according to the requirements of AASHTO M 111 or M 232 as applicable, $2\frac{1}{4}$ " $x2\frac{1}{4}$ " $x\frac{5}{16}$ " plate washers shall be provided under each nut required for the anchor rods. Anchor rods connecting precast sections shall be brought to a snug tight condition followed by an additional $^{\rm I}_2$ turn on one of the nuts for anchor rods installed in the walls. Match marks shall be provided on the bolt and nut to verify relative rotation between the bolt and the nut. Holes in the walls for the culvert tie assembly may be drilled using core bits in lieu of using formed holes.

SCB-AES-2

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BAR S2

BAR S3

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

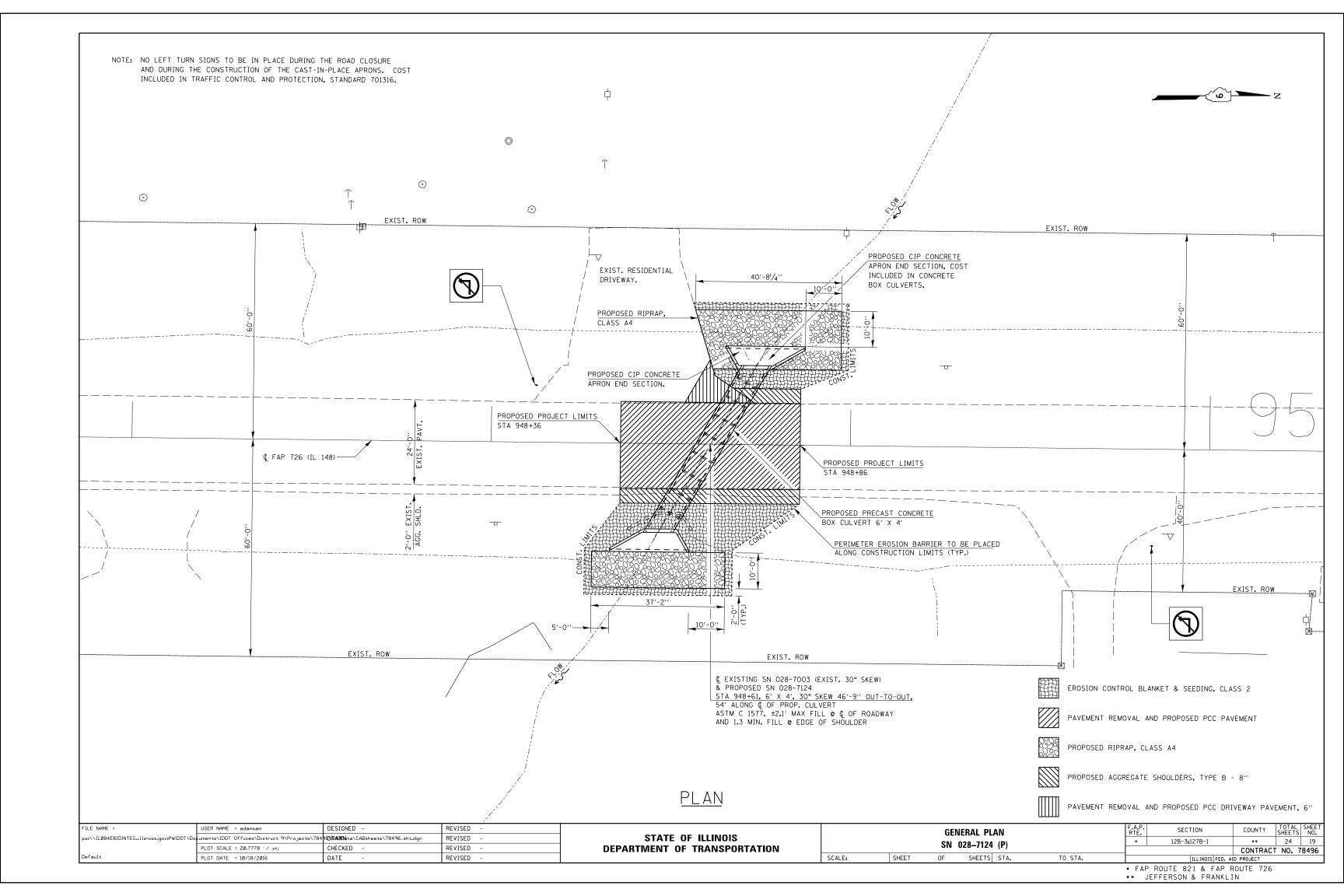
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PRECAST CONCRETE BOX CULVERT	F.A.P. RTE.	SECTION
APRON END SECTION DETAILS SN 041-7067 (P)	•	12B-3;127B-1
ATTION END DESTION DETAILS ON STI-7007 (1)		
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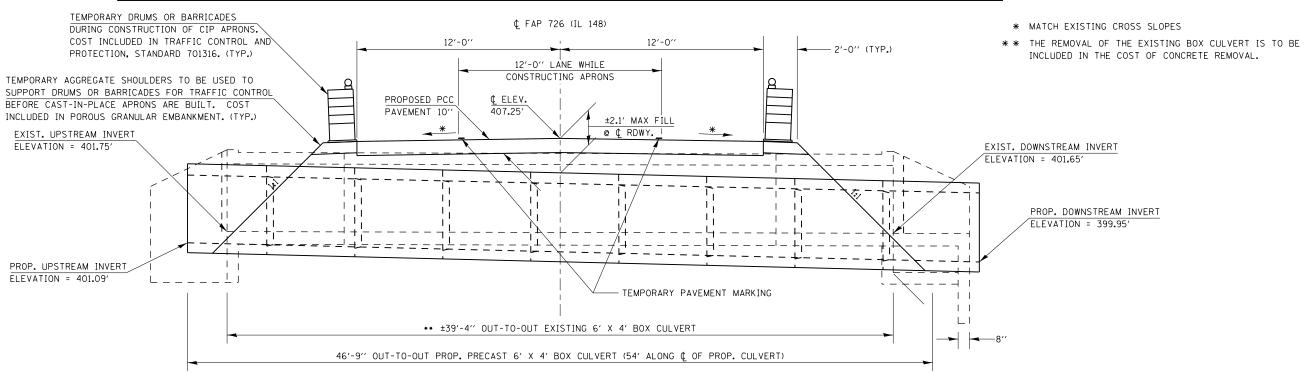
COUNTY TOTAL SHEETS NO. 24 18

CONTRACT NO. 78496

AID PROJECT



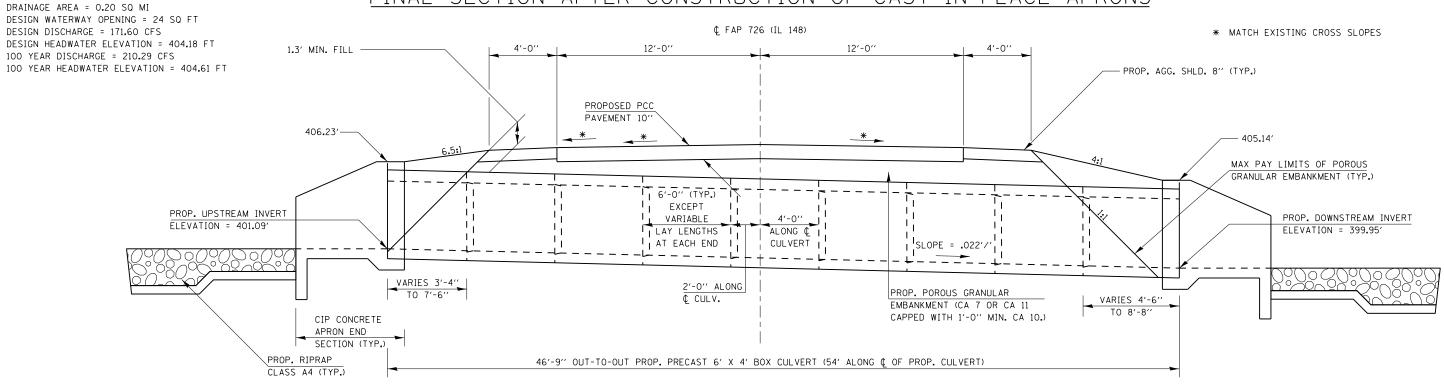
TEMPORARY SECTION PRIOR TO CONSTRUCTION OF CAST-IN-PLACE APRONS



ELEVATION

DIMENSIONS OF BOX CULVERT ARE AT RIGHT ANGLES. PRECAST BOX LOADING HL-93. ASTM C 1577

FINAL SECTION AFTER CONSTRUCTION OF CAST-IN-PLACE APRONS



ELEVATION (LOOKING NORTH)

DIMENSIONS OF BOX CULVERT ARE AT RIGHT ANGLES. PRECAST BOX LOADING HL-93. ASTM C 1577

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Default	PLOT DATE = 10/18/2016	DATE -	REVISED -

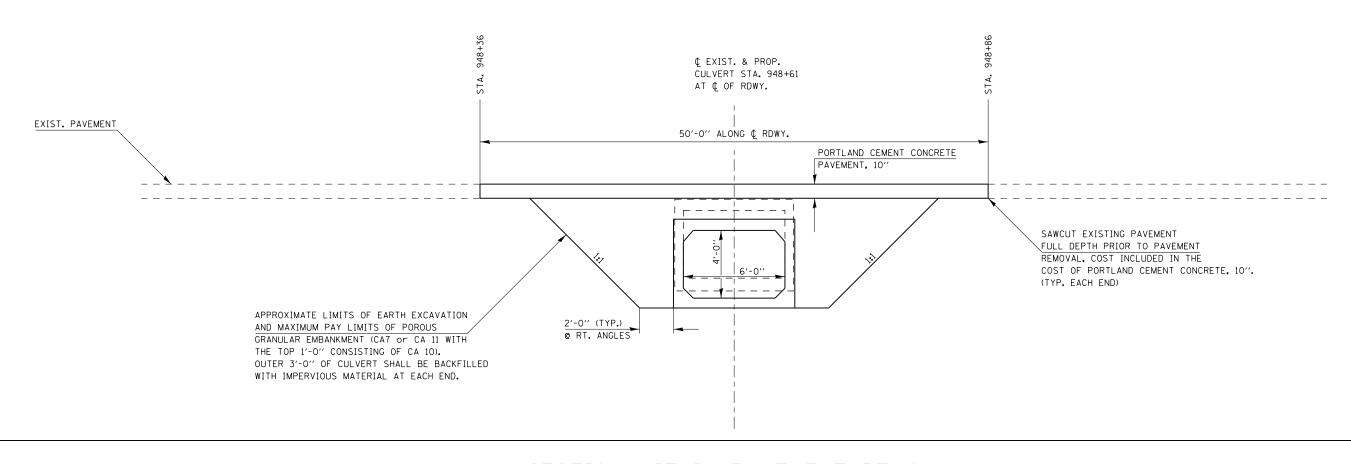
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DEPARTMENT OF	TRANSPORTATION

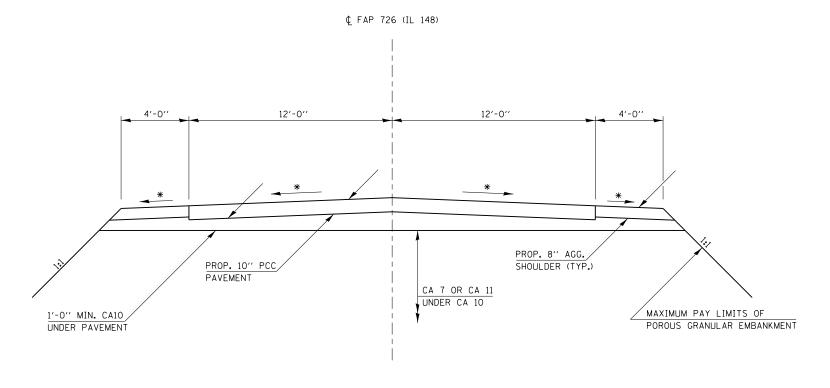
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	314 020-7124 (F)								CONTRACT	NO.	78496	
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LIMITS OF POROUS GRANULAR EMBANKMENT



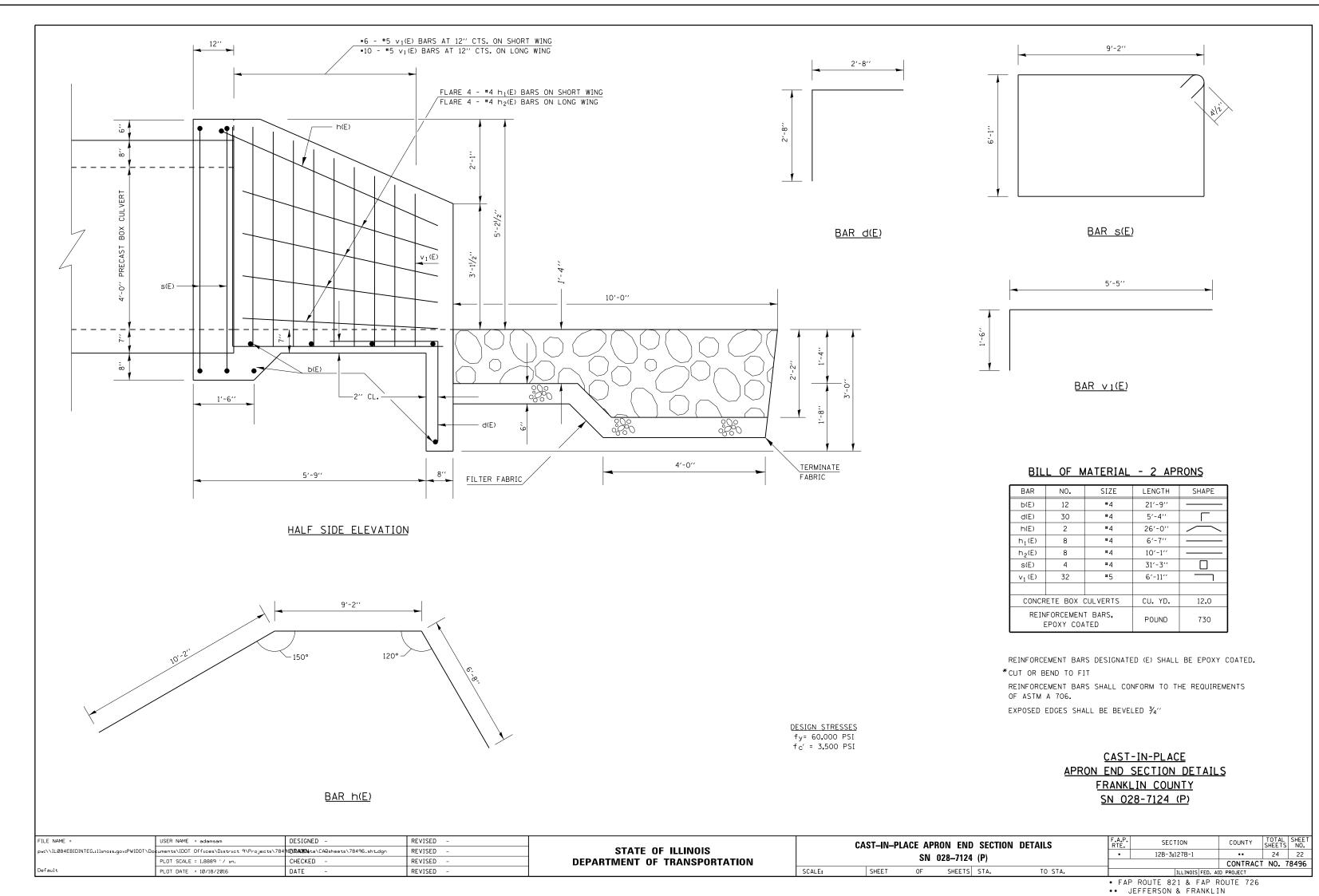
SECTION WITHIN PAVEMENT REMOVAL

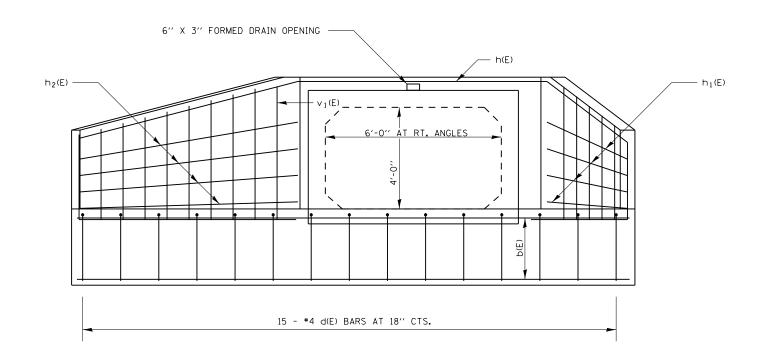


* MATCH EXISTING CROSS SLOPES

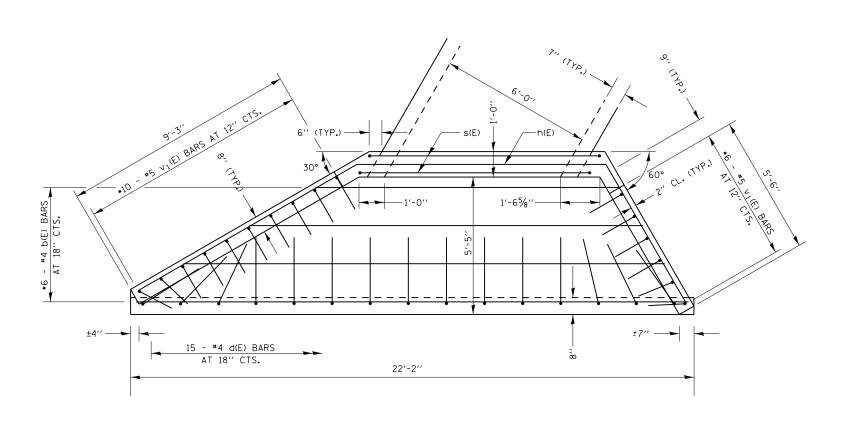
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			REVISED -	DEPARTMENT OF TRANSPORTATION	SECI	IIUN WITHIN	PAVEIVII	ENI KEWUVAL	SN 028-7124 (P)			CONTRAC	CT NO. 78496
Default	PLOT DATE = 10/18/2016	DATE -	REVISED -		SCALE:	SHEET	OF	SHEETS STA.	TO STA.		ILLINOIS FEI	D. AID PROJECT	

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END ELEVATION



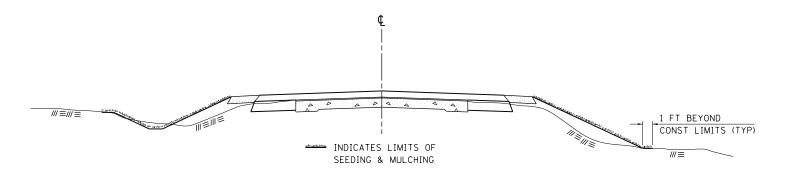
• CUT OR BEND TO FIT WORK THIS SHEET WITH SHEET 22 OF 24

<u>PLAN</u>

FILE NAME =	USER NAME = adamsam	DESIGNED -	REVISED -			CAST_INLPI	ACE APR	ON END SECTION	I DETAILS	F.A.P.	SECTION	COUNTY	TOTAL SHEET
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SEEDING & MULCHING



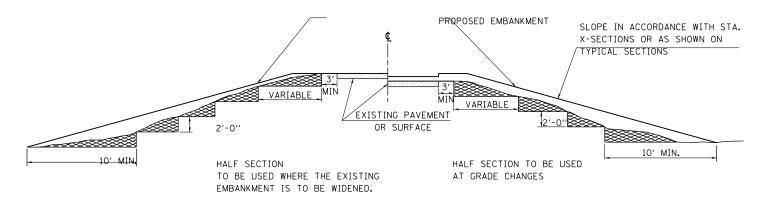
GENERAL NOTES

IN GENERAL, ALL EARTH SURFACES DISTURBED DURING CON-STRUCTION OPERATIONS SHALL BE SEEDED AND MULCHED UPON COMPLETION OF ALL GRADING OPERATIONS. FERTILIZER NUTRIENTS AND LIMESTONE SHALL BE APPLIED TO ALL SEEDED AREAS.

THE RATES OF APPLICATION OF FERTILIZER, MULCH AND LIME-STONE SHALL BE AS SPECIFIED IN THE SPECIAL PROVISIONS. SECTIONS 250 AND 251 OF THE STANDARD SPECIFICATIONS SHALL GOVERN THIS WORK EXCEPT AS SPECIFIED HEREIN OR AS NOTED IN THE SPECIAL PROVISIONS.

REDRAWN 2-15-89 REVISED 8-15-94

TYPICAL CROSS SECTION SHOWING STEP CONSTRUCTION ON EXISTING FILL



MATERIAL TO BE REMOVED AND REPLACED IN THE EMBANKMENT IN ACCORDANCE WITH ART. 205.04 OF THE STANDARD SPECIFICATION. COST TO BE INCLUDED IN THE VARIOUS ITEMS OF EXCAVATION AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED BECAUSE OF THIS WORK.

REDRAWN 2-15-89 REVISED 8-15-94 CHECKED 6-3-99 STD. 9-16 RESIZED 5-7-08

FILE NAME =	USER NAME = adamsam	DESIGNED -	REVISED -
pw:\\ILØ84EBIDINTEG.:ll1no1s.gov:PWIDOT\Do	cuments\IDOT Offices\District 9\Projects\784	REDRAMNIta\CABsheets\78496_sht.dgn	REVISED -
	PLOT SCALE = 94.4444 '/ in.	CHECKED -	REVISED -
Default	PLOT DATE = 10/18/2016	DATE -	REVISED -

STATE OF ILL	LINOIS
DEPARTMENT OF TRA	NSPORTATION

							F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.		
١	DISTRICT STANDARDS						•	12B-3 ; 127B-1	••	24	24		
									CONTRACT	NO.	78496		
	SCALE:	SHEET	OF	SHEETS	STA.	TO STA.	ILLINOIS FED. AID PROJECT						