

03-07-2025 LETTING ITEM 144

FOR INDEX OF SHEETS SEE SHEET NO. 3
 FOR SUMMARY OF QUANTITIES SEE SHEET NOS. 4-7
 DESIGN DESIGNATION: N/A
 COORDINATE SYSTEM: ILLINOIS COORDINATE SYSTEM,
 EAST ZONE

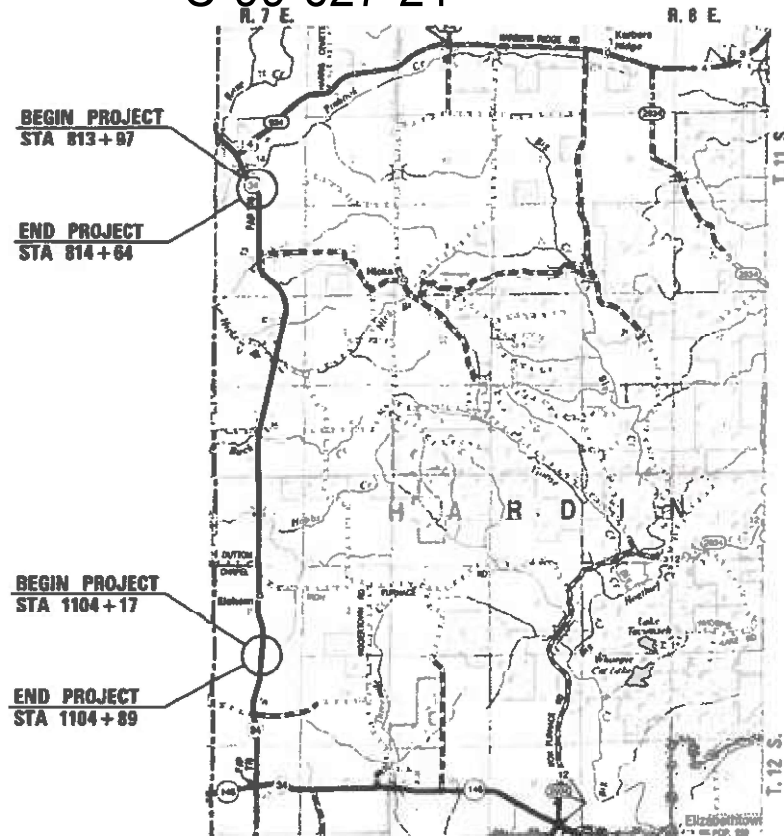
STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION **PROPOSED HIGHWAY PLANS**

F.A.P. ROUTE 778 (IL 34)
 SECTION 3CR-1;4CR-1
 PROJECT BR-G4IM(422)
**CULVERT REPLACEMENT OVER
 TRIBUTARY OF PINHOOK CREEK &
 CULVERT REPLACEMENT OVER DITCH
 HARDIN COUNTY**

F.A.P. RTE. 778	SECTION 3CR-1;4CR-1	COUNTY HARDIN	TOTAL SHEETS 51	SHEET NO. 1
ILLINOIS CONTRACT NO. 78844				



C-99-027-21



LOCATION MAP
 (NOT TO SCALE)

GROSS LENGTH = 67.00 FT. = 0.013 MILE (3CR-1)
 GROSS LENGTH = 72.00 FT. = 0.014 MILE (4CR-1)



Christopher P. Kimm 5/29/24
 EXPIRATION: 11/30/2025

TRAFFIC DATA

IL ROUTE 34
 EXISTING ADT = 1450 (2021)
 %SU = 90 (6.2%)
 %MU = 100 (6.9%)
 FUNCTIONAL CLASSIFICATION: MINOR ARTERIAL
 POSTED SPEED: 55 MPH

EXISTING SN 035-7027
 & STRUCTURE STA. 815+12.00
 PROPOSED SN 035-7032
 & STRUCTURE STA. 815+36.00
 PRECAST BOX CULVERT (12'W X 6'H X 64'L)
 WITH CAST IN PLACE WINGWALLS EACH END
 AND DROP BOX (EAST SIDE ONLY)
 80'-7 1/2" OUT-OUT HEADWALLS
 25° SKEW LT. FWD.

HARDIN UNIT ROAD DISTRICT

EXISTING SN 035-7017
 & STRUCTURE STA. 1104+53.00
 PROPOSED SN 035-7033
 PRECAST BOX CULVERT (6'W X 4'H X 90'L)
 WITH PRECAST WINGWALLS EACH END
 45° SKEW RT. FWD.

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

PROJECT ENGINEER: EHREN KIRBY

CONTRACT NO. 78844



Veenstra & Kimm, Inc.
 Springfield, IL. Phone: (217)544-8033
 IL. Design Firm No. 184-001939

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

SUBMITTED *June 5* 20 *24*
Kirk H. Brown
 REGION FIVE ENGINEER

January 31 20 *25*
[Signature]
 ENGINEER OF DESIGN AND EQUIPMENT

January 31 20 *25*
[Signature]
 DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

**PRINTED BY THE AUTHORITY
 OF THE STATE OF ILLINOIS**

PREPARED BY: Susan Pe
DISTRICT STUDIES AND PLANS ENGINEER

EXAMINED BY: Nancy Pe
DISTRICT LAND ACQUISITION ENGINEER

EXAMINED BY: Con Pe
DISTRICT PROGRAM DEVELOPMENT ENGINEER

EXAMINED BY: R. Pe
DISTRICT OPERATIONS ENGINEER

EXAMINED BY: Douglas Pe
DISTRICT PROJECT IMPLEMENTATION ENGINEER

EXAMINED BY: Douglas Pe
DISTRICT CONSTRUCTION ENGINEER

EXAMINED BY: Aan Wang
DISTRICT MATERIALS ENGINEER

VK VEENSTRA & KIMM INC.
Springfield, IL Phone: (217)544-8033
IL Design Firm No. 184-001939

USER NAME *	DESIGNED -	REVISED -
	CHECKED -	REVISED -
PLOT SCALE *	DRAWN -	REVISED -
PLOT DATE *	CHECKED -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SIGNATURE SHEET

SCALE: SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE. 778	SECTION 3CR-14CR-1	COUNTY HARDIN	TOTAL SHEETS 51	SHEET NO. 2
CONTRACT NO. 78844				
ILLINOIS FED. AID PROJECT				

INDEX OF SHEETS

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37	SCHEDULE OF QUANTITIES
38	PLAN & PROFILE
39	PAVEMENT MARKING PLAN / EROSION CONTROL PLAN
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46-48	DISTRICT 9 STANDARDS, SEEDING AND MULCH, STEP CONSTRUCTION ON EXISTING FILL, 24' PCC PAVEMENT
49-51	CROSS SECTIONS

GENERAL NOTES

- 1.) 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.

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

ALL AGGREGATE MATERIAL	2.05 TON/CU. YD.
RIPRAP	1.5 TON/CU. YD.
EARTH	110 LBS./CU. FT.

COMMITMENTS

- 1.) TREES EQUAL TO OR GREATER THAN 3 INCHES IN DIAMETER SHALL NOT BE REMOVED BETWEEN APRIL 1 AND SEPTEMBER 30 OF ANY GIVEN YEAR.
- 2.) ALL EMERGENCY SERVICES INCLUDING POSTAL SERVICES IN POPE AND HARDIN COUNTIES AND THE DISTRICT 9 TRAFFIC CONTROL SUPERVISOR SHALL BE NOTIFIED THREE WEEKS PRIOR TO THE CLOSING OF IL 34 FOR THE PLACEMENT OF EITHER SINGLE BARREL BOX CULVERT.

STANDARDS

000001-08	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
001001-02	AREAS OF REINFORCEMENT
001006	DECIMAL OF AN INCH AND OF A FOOT
280001-07	TEMPORARY EROSION CONTROL SYSTEMS
420001-10	PAVEMENT JOINTS
420701-03	PAVEMENT WELDED WIRE FABRIC
666001-01	RIGHT-OF-WAY MARKERS
701001-02	OFF-ROAD OPERATIONS, 2L, 2W, MORE THAN 15' (4.5m) AWAY
701006-05	OFF-ROAD OPERATIONS, 2L, 2W, 15' (4.5m) TO 24' (600mm) FROM PAVEMENT EDGE
701011-04	OFF-ROAD MOVING OPERATIONS, 2L, 2W, DAY ONLY
701201-05	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
701316-14	LANE CLOSURE, 2L, 2W, BRIDGE REPAIR, FOR SPEEDS ≥ 45 MPH
701901-10	TRAFFIC CONTROL DEVICES
780001-05	TYPICAL PAVEMENT MARKINGS
BLR 21-9	TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES FOR CONSTRUCTION ON RURAL LOCAL HIGHWAYS

REV - MS

VEENSTRA & KIMM INC. Springfield, IL. Phone: (217)544-8033 IL. Design Firm No. 184-001939	USER NAME = _____	DESIGNED - _____	REVISED - _____	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	GENERAL NOTES, COMMITMENTS & PROJECT SPECIFIC NOTES	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = _____	CHECKED - _____	REVISED - _____			778	3CR-1;4CR-1	HARDIN	51	3
	PLOT DATE = _____	DRAWN - _____	REVISED - _____		SCALE: _____	SHEET NO. 1 OF 1 SHEETS	STA. _____ TO STA. _____	ILLINOIS FED. AID PROJECT		
		CHECKED - _____	REVISED - _____					CONTRACT NO. 78844		

HARDIN	HARDIN
F.A.P. 778(IL 34)	F.A.P. 778(IL 34)
80% FED/20% STATE	80% FED/20% STATE
RURAL	RURAL
S.N. 035-7032	S.N. 035-7033
CONST. CODE	CONST. CODE
0004	0004

CODE NO.	ITEM	UNIT	TOTAL QUANTITY		
20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	51	51	
20100500	TREE REMOVAL, ACRES	ACRE	0.1		0.1
20200100	EARTH EXCAVATION	CU YD	1685	1229	456
20200200	ROCK EXCAVATION	CU YD	19	19	
20700220	POROUS GRANULAR EMBANKMENT	CU YD	915	705	210
25000210	SEEDING, CLASS 2A	ACRE	0.45	0.24	0.21
25000350	SEEDING, CLASS 7	ACRE	0.45	0.24	0.21
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	41	22	19
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	41	22	19
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	41	22	19
25000700	AGRICULTURAL GROUND LIMESTONE	TON	0.9	0.48	0.42
25100115	MULCH, METHOD 2	ACRE	0.45	0.24	0.21
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	45	24	21
28000400	PERIMETER EROSION BARRIER	FOOT	596	351	245

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PLOT DATE =	CHECKED -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: NONE SHEET NO. 1 OF 4 SHEETS STA. _____ TO STA. _____

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
778	3CR-1;4CR-1	HARDIN	51	4
ILLINOIS FED. AID PROJECT			CONTRACT NO. 78844	

HARDIN	HARDIN
F.A.P. 778(IL 34)	F.A.P. 778(IL 34)
80% FED/20% STATE	80% FED/20% STATE
RURAL	RURAL
S.N. 035-7032	S.N. 035-7033
CONST. CODE	CONST. CODE
0004	0004

CODE NO.	ITEM	UNIT	TOTAL QUANTITY		
28100107	STONE RIPRAP, CLASS A4	SQ YD	28		28
28100109	STONE RIPRAP, CLASS A5	SQ YD	150	150	
28200200	FILTER FABRIC	SQ YD	178	150	28
28300400	AGGREGATE DITCH	TON	70		70
42000060	WELDED WIRE REINFORCEMENT	SQ YD	371	179	192
42000500	PORTLAND CEMENT CONCRETE PAVEMENT 10"	SQ YD	371	179	192
44000100	PAVEMENT REMOVAL	SQ YD	371	179	192
44004250	PAVED SHOULDER REMOVAL	SQ YD	60	60	
48102100	AGGREGATE WEDGE SHOULDER, TYPE B	TON	4	4	
48300500	PORTLAND CEMENT CONCRETE SHOULDERS 10"	SQ YD	124	60	64
50100300	REMOVAL OF EXISTING STRUCTURES NO. 1	EACH	1	1	
50100400	REMOVAL OF EXISTING STRUCTURES NO. 2	EACH	1		1
50200450	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL FOR STRUCTURES	CU YD	108		108
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	12560	12560	

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PLOT DATE =	CHECKED -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: NONE SHEET NO. 2 OF 4 SHEETS STA. _____ TO STA. _____

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
778	3CR-1;4CR-1	HARDIN	51	5
ILLINOIS FED. AID PROJECT			CONTRACT NO. 78844	

HARDIN	HARDIN
F.A.P. 778(IL 34)	F.A.P. 778(IL 34)
80% FED/20% STATE	80% FED/20% STATE
RURAL	RURAL
S.N. 035-7032	S.N. 035-7033
CONST. CODE	CONST. CODE
0004	0004

CODE NO.	ITEM	UNIT	TOTAL QUANTITY		
52200020	TEMPORARY SOIL RETENTION SYSTEM	SQ FT	333	333	
54001002	BOX CULVERT END SECTIONS, CULVERT NO. 2	EACH	2		2
54003000	CONCRETE BOX CULVERTS	CU YD	69.3	69.3	
54010604	PRECAST CONCRETE BOX CULVERTS 6' X 4'	FOOT	74		74
54011206	PRECAST CONCRETE BOX CULVERTS 12' X 6'	FOOT	64	64	
59100100	GEOCOMPOSITE WALL DRAIN	SQ YD	225	137	88
66600105	FURNISHING AND ERECTING RIGHT OF WAY MARKERS	EACH	16	8	8
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	6	3	3
67100100	MOBILIZATION	L SUM	1	0.5	0.5
70100100	TRAFFIC CONTROL AND PROTECTION, STANDARD 701316	EACH	1	1	
70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	L SUM	1	0.5	0.5
70103815	TRAFFIC CONTROL SURVEILLANCE	CAL DA	10	10	
70106500	TEMPORARY BRIDGE TRAFFIC SIGNALS	EACH	1	1	
70106700	TEMPORARY RUMBLE STRIPS	EACH	6	6	

REV - MS



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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

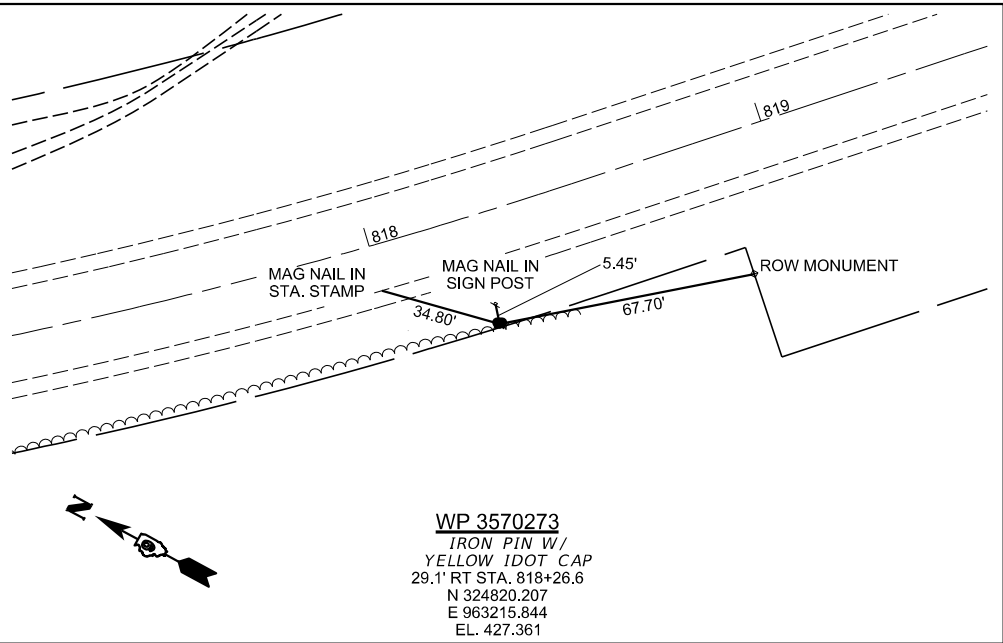
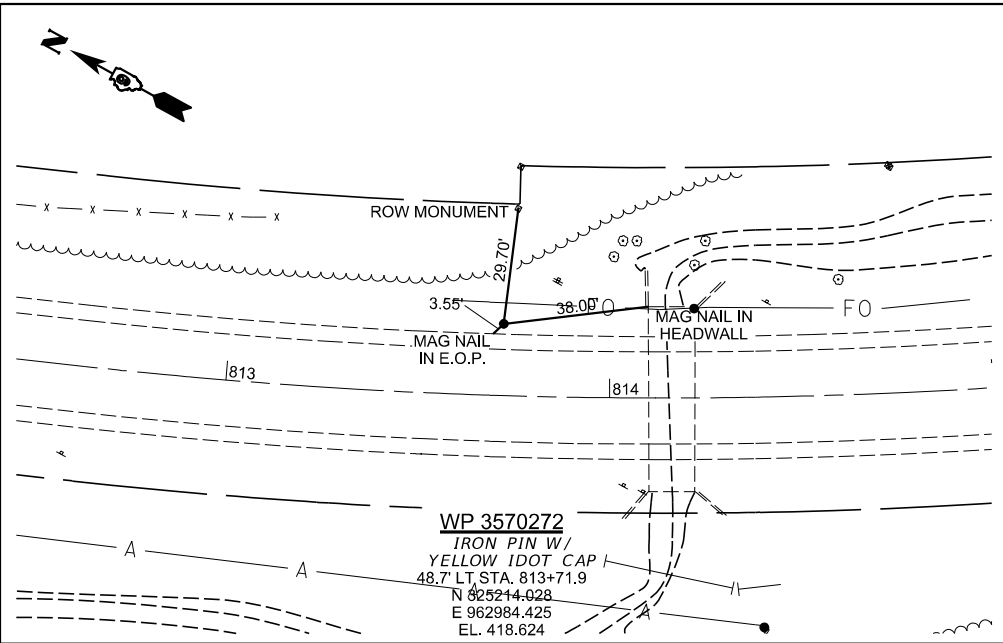
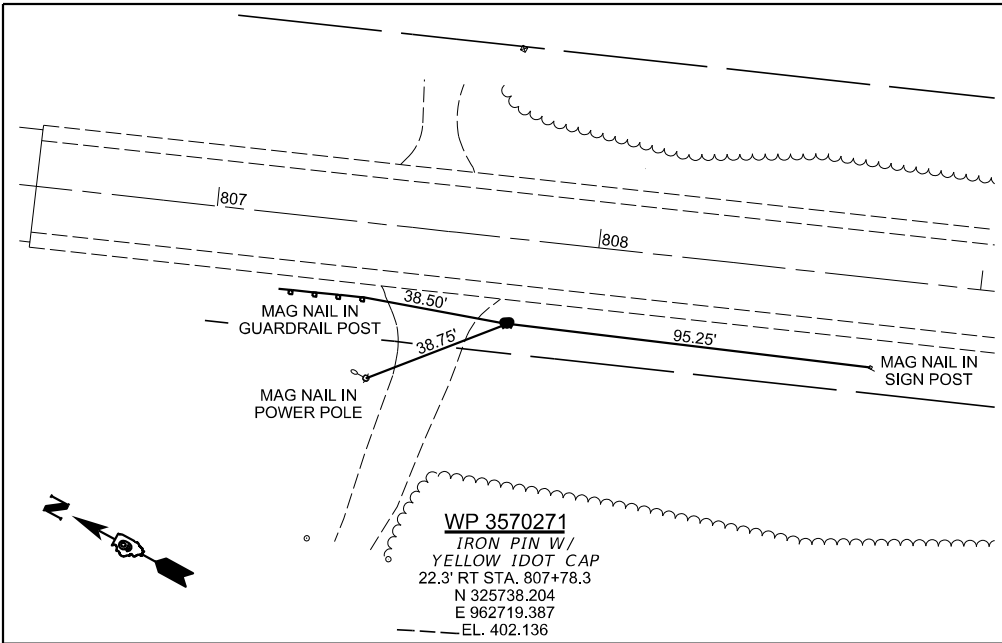
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
778	3CR-1;4CR-1	HARDIN	51	6
ILLINOIS FED. AID PROJECT			CONTRACT NO. 78844	

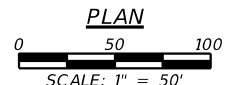
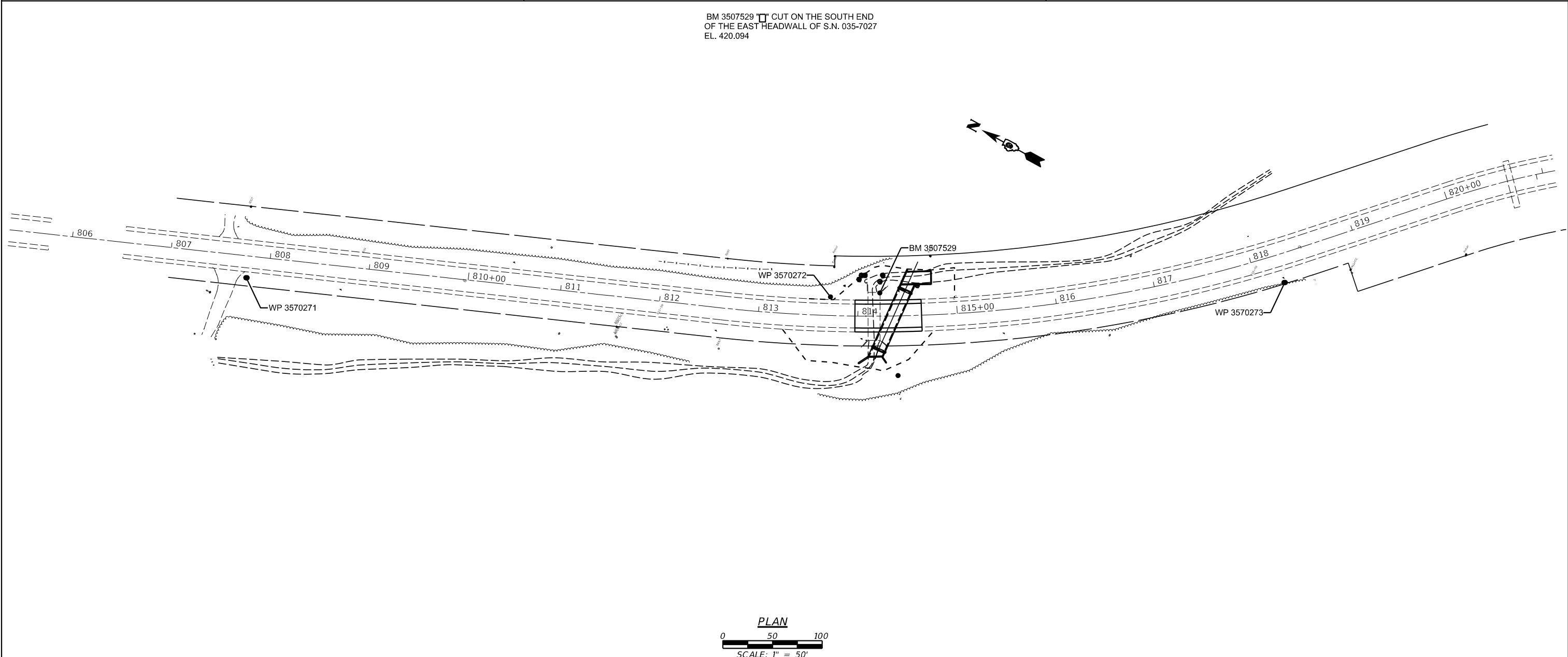
CODE NO.	ITEM	UNIT	TOTAL QUANTITY	HARDIN	HARDIN
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				80% FED/20% STATE	80% FED/20% STATE
				RURAL	RURAL
				S.N. 035-7032	S.N. 035-7033
				CONST. CODE	CONST. CODE
				0004	0004
70107025	CHANGEABLE MESSAGE SIGN	CAL DA	84	42	42
* 78001110	PAINT PAVEMENT MARKING - LINE 4"	FOOT	1341	1105	236
78300201	PAVEMENT MARKING REMOVAL - GRINDING	SQ FT	427	427	
* 86200300	UNINTERRUPTABLE POWER SUPPLY, EXTENDED	EACH	1	1	
X5810103	WATERPROOFING MEMBRANE SYSTEM FOR BURIED STRUCTURES	SQ YD	225	137	88
X7011800	TRAFFIC CONTROL AND PROTECTION, STANDARD BLR 21	L SUM	1	0.5	0.5
Z0016702	DETOUR SIGNING	L SUM	1	0.5	0.5
* Z0054517	ROCK FILL - FOUNDATION	TON	129		129

* SPECIALTY ITEM

REV - MS



BM 3507529 \square CUT ON THE SOUTH END
 OF THE EAST HEADWALL OF S.N. 035-7027
 EL. 420.094



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 IL. Design Firm No. 184-001939

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PLOT SCALE =	DRAWN -	REVISED -
PLOT DATE =	CHECKED -	REVISED -

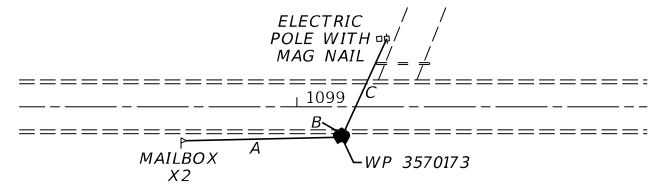
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ALIGNMENT TIES & BENCHMARKS SN 035-7032

SCALE: 1" = 50' SHEET NO. 1 OF 1 SHEETS STA. _____ TO STA. _____

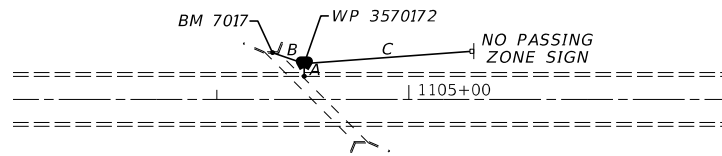
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
778	3CR-1;4CR-1	HARDIN	51	8
CONTRACT NO. 78844				
ILLINOIS FED. AID PROJECT				

A - 82.50'
 B - 3.45' (MAG IN STRIPE)
 C - 56.60'



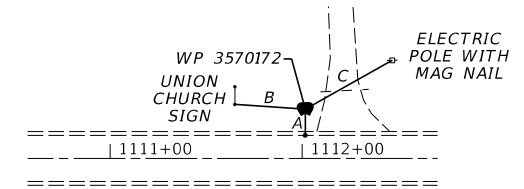
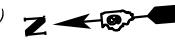
WP 3570173
 IRON PIN W/
 YELLOW IDOT CAP
 15.87' RT STA. 1099+23.22
 N 297628.941
 E 963698.397
 EL. 471.70'

A - 6.90' (MAG IN STRIPE)
 B - 18.40'
 C - 87.55'



WP 3570172
 IRON PIN W/
 YELLOW IDOT CAP
 18.60' LT STA. 1104+45.55
 N 297105.606
 E 963686.672
 EL. 445.86

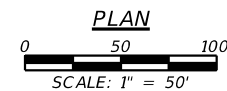
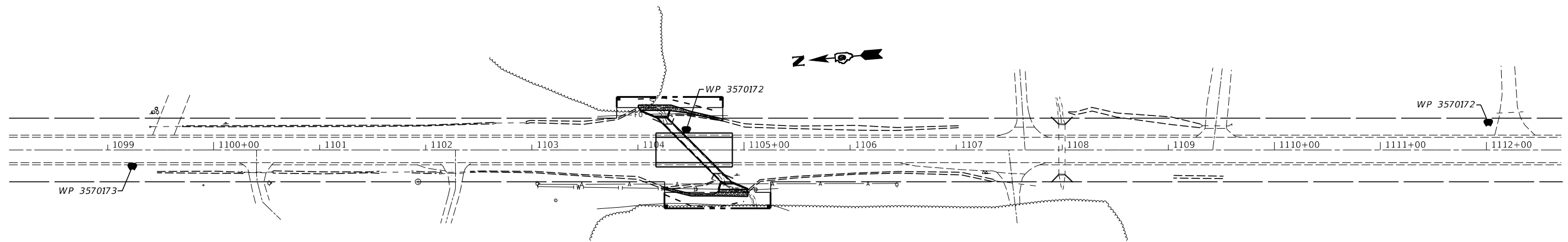
A - 13.50' (MAG IN STRIPE)
 B - 37.10'
 C - 56.20'



WP 3570171
 IRON PIN W/
 YELLOW IDOT CAP
 25.56' LT STA. 1112+01.70
 N 296351.794
 E 963626.913
 EL. 463.12

BENCHMARK 3507541

CHISELED SQUARE CENTER OF EAST HEADWALL
 OF SN 035-7016, STA. 1107+85, ELEV. 447.91



MODEL: 3400BENMARKS
 FILE NAME: 3507541

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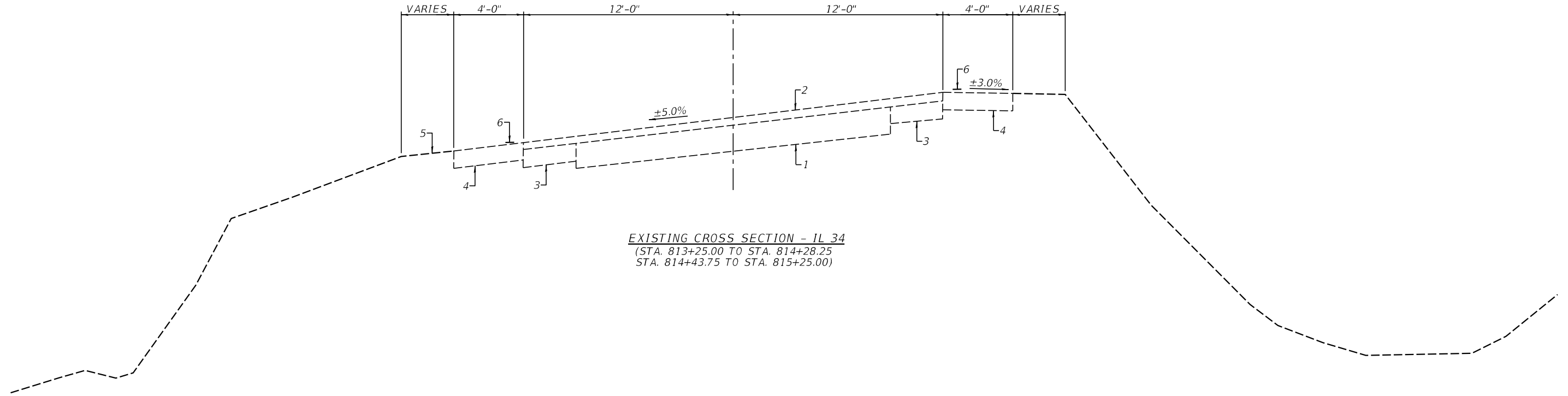
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 DEPARTMENT OF TRANSPORTATION**

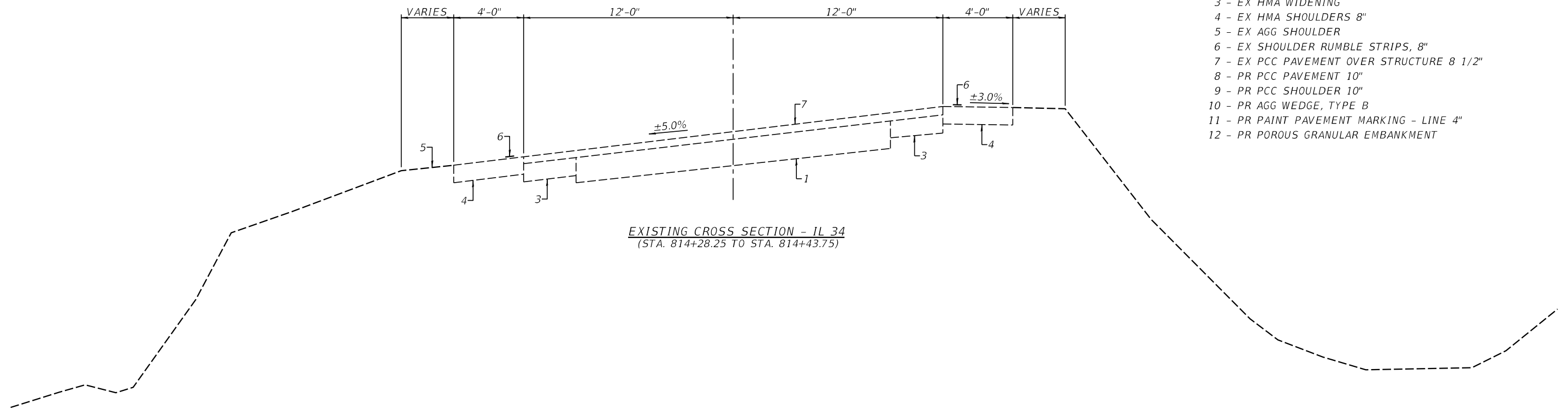
ALIGNMENT TIES & BENCHMARKS SN 035-7033

SCALE: VARIES SHEET 1 OF 1 SHEETS STA. _____ TO STA. _____

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
778	3CR-1;4CR-1	HARDIN	51	9
CONTRACT NO. 78844				
ILLINOIS FED. AID PROJECT				



EXISTING CROSS SECTION - IL 34
 (STA. 813+25.00 TO STA. 814+28.25
 STA. 814+43.75 TO STA. 815+25.00)



EXISTING CROSS SECTION - IL 34
 (STA. 814+28.25 TO STA. 814+43.75)

LEGEND

- 1 - EX PCC PAVEMENT
- 2 - EX HMA SURFACE
- 3 - EX HMA WIDENING
- 4 - EX HMA SHOULDERS 8"
- 5 - EX AGG SHOULDER
- 6 - EX SHOULDER RUMBLE STRIPS, 8"
- 7 - EX PCC PAVEMENT OVER STRUCTURE 8 1/2"
- 8 - PR PCC PAVEMENT 10"
- 9 - PR PCC SHOULDER 10"
- 10 - PR AGG WEDGE, TYPE B
- 11 - PR PAINT PAVEMENT MARKING - LINE 4"
- 12 - PR POROUS GRANULAR EMBANKMENT

MODEL: S:\MODELS\MAMES
FILE: DAMES_SHEETS



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DRAWN - _____	REVISIONS - _____	REVISED - _____
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PLOT DATE = SDATES	DATE - _____	REVISED - _____

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

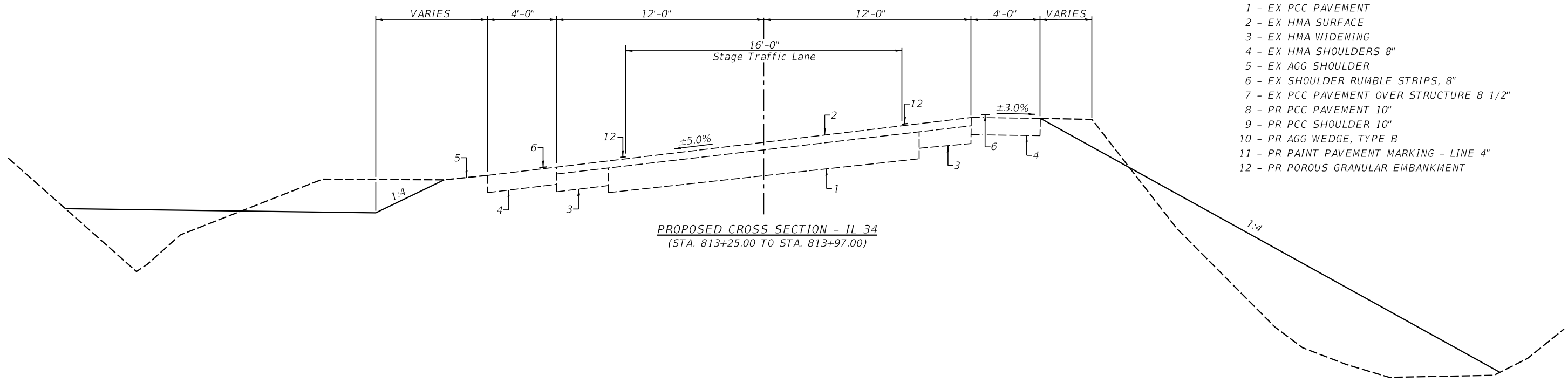
TYPICAL ROADWAY CROSS SECTIONS

SCALE: _____ SHEET ____ OF 3 SHEETS STA. _____ TO STA. _____

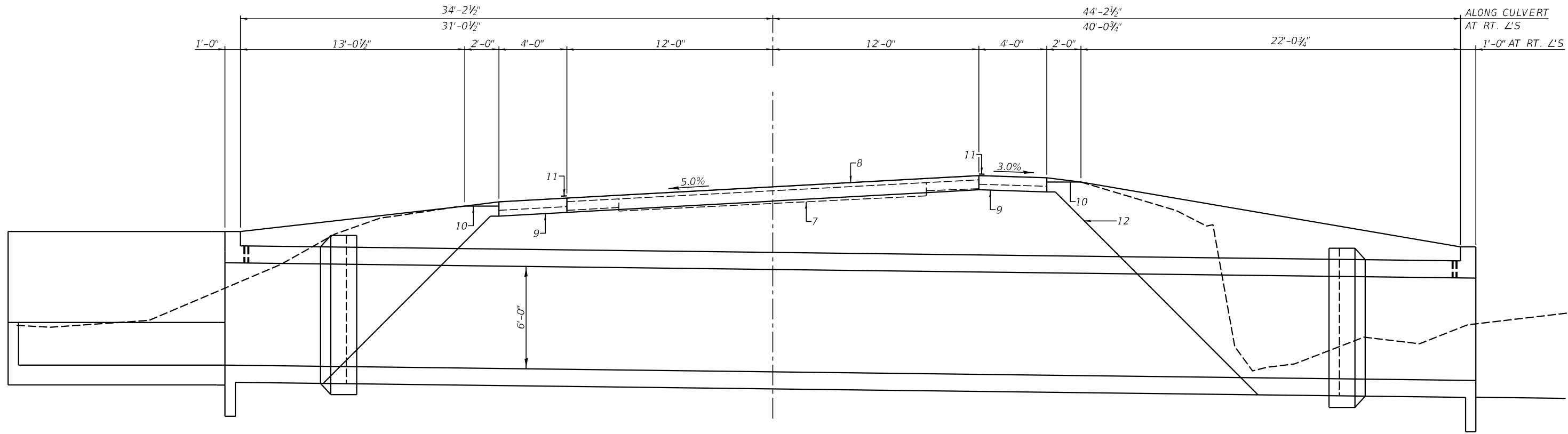
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
778	3CR-1;4CR-1	HARDIN	51	10
ILLINOIS FED. AID PROJECT			CONTRACT NO. 78844	

LEGEND

- 1 - EX PCC PAVEMENT
- 2 - EX HMA SURFACE
- 3 - EX HMA WIDENING
- 4 - EX HMA SHOULDERS 8"
- 5 - EX AGG SHOULDER
- 6 - EX SHOULDER RUMBLE STRIPS, 8"
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- 10 - PR AGG WEDGE, TYPE B
- 11 - PR PAINT PAVEMENT MARKING - LINE 4"
- 12 - PR POROUS GRANULAR EMBANKMENT



PROPOSED CROSS SECTION - IL 34
(STA. 813+25.00 TO STA. 813+97.00)



PROPOSED CROSS SECTION - IL 34
(STA. 813+97.00 TO STA. 814+64.00)

MODEL: 3/06/2011MMMS
FILE NAME: 311215

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IL. Design Firm No. 184-001939

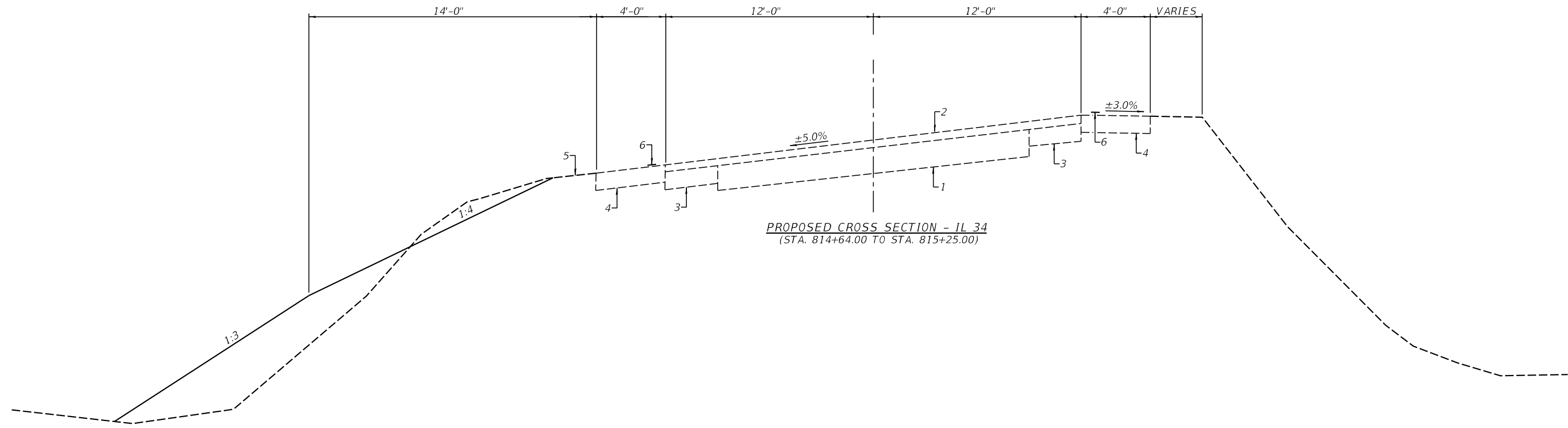
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PLOT DATE = \$DATE\$	CHECKED - _____	REVISED - _____
	DATE - _____	REVISED - _____

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

TYPICAL ROADWAY CROSS SECTIONS

SCALE: _____ SHEET _____ OF 3 SHEETS STA. _____ TO STA. _____

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
778	3CR-1;4CR-1	HARDIN	51	11
CONTRACT NO. 78844				
ILLINOIS FED. AID PROJECT				



PROPOSED CROSS SECTION - IL 34
(STA. 814+64.00 TO STA. 815+25.00)

LEGEND

- 1 - EX PCC PAVEMENT
- 2 - EX HMA SURFACE
- 3 - EX HMA WIDENING
- 4 - EX HMA SHOULDERS 8"
- 5 - EX AGG SHOULDER
- 6 - EX SHOULDER RUMBLE STRIPS, 8"
- 7 - EX PCC PAVEMENT OVER STRUCTURE 8 1/2"
- 8 - PR PCC PAVEMENT 10"
- 9 - PR PCC SHOULDER 10"
- 10 - PR AGG WEDGE, TYPE B
- 11 - PR PAINT PAVEMENT MARKING - LINE 4"
- 12 - PR POROUS GRANULAR EMBANKMENT

MODEL: 34002ELNAMES
FILE NAME: 34002



USER NAME = \$USERS	DESIGNED - _____	REVISED - _____
DRAWN - _____	REVISOR - _____	REVISED - _____
PLOT SCALE = \$SCALE\$	CHECKED - _____	REVISED - _____
PLOT DATE = \$DATE\$	DATE - _____	REVISED - _____

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

TYPICAL ROADWAY CROSS SECTIONS

SCALE: _____ SHEET ____ OF 3 SHEETS STA. _____ TO STA. _____

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
778	3CR-1;4CR-1	HARDIN	51	12
CONTRACT NO. 78844				
ILLINOIS FED. AID PROJECT				

EARTHWORK							
LOCATION	EARTH EXCAVATION	ADJUSTED SHRINKAGE FACTOR	EARTH EXCAVATION (ADJUSTED)	EMBANKMENT	EARTHWORK BALANCE		REMARKS
					EXCAVATION REQUIRED TO COMPLETE	EXCESS EXCAVATION	
	CU. YD.	%	CU. YD.	CU. YD.	CU. YD.	CU. YD.	CU. YD.
STA. 813+25 TO STA. 815+25	49	25	37	336	0	0	299
EXCAVATION FOR PLACEMENT OF NEW STRUCTURE	1180	25	885			586	-885
TOTAL	1,229		922	336	0	586	-586

NO FURNISHED EXCAVATION WILL BE REQUIRED. EXCESS EARTH EXCAVATION SHALL BE REMOVED FROM SITE. COST OF REMOVAL INCLUDED IN EARTH EXCAVATION.

PAVED REMOVAL SCHEDULE		
LOCATION	PAVEMENT REMOVAL	PAVED SHOULDER REMOVAL
	SQ. YD.	SQ. YD.
STA. 813+97 TO STA. 814+64	179	
STA. 813+97 TO STA. 814+64 LT.		30
STA. 813+97 TO STA. 814+64 RT.		30
TOTAL	179	60

PERMANENT SEEDING						
LOCATION	SEEDING CLASS 2A	NITROGEN FERTILIZER NUTRIENT	PHOSPHORUS FERTILIZER NUTRIENT	POTASSIUM FERTILIZER NUTRIENT	AGRICULTURAL GROUND LIMESTONE	MULCH METHOD 2
	ACRE	POUND	POUND	POUND	TON	ACRE
	STA. 813+25 TO STA. 815+25 RT.	0.12	11	11	11	0.24
STA. 813+25 TO STA. 815+25 LT.	0.12	11	11	11	0.24	0.12
TOTAL	0.24	22	22	22	0.48	0.24

PAINT PAVEMENT MARKING SCHEDULE			
LOCATION	PAINT PAVEMENT MARKING - LINE 4"		
	SOLID LINE (YELLOW)	30' SKIP 10' DASH (YELLOW)	EDGE LINE (WHITE)
	FOOT	FOOT	FOOT
STA. 812+79 TO STA. 815+93 LT.			314
STA. 812+79 TO STA. 814+90 CENTERLINE LT.		60	
STA. 814+90 TO STA. 815+93 CENTERLINE LT.	103		
STA. 812+79 TO STA. 815+93 CENTERLINE RT.	314		
STA. 812+79 TO STA. 815+93 RT.			314
SUBTOTAL	417	60	628
TOTAL			1105

PORTLAND CEMENT CONCRETE SCHEDULE			
LOCATION	PORTLAND CEMENT CONCRETE PAVEMENT 10"	PORTLAND CEMENT CONCRETE SHOULDERS 10"	WELDED WIRE REINFORCEMENT
	SQ. YD.	SQ. YD.	SQ. YD.
STA. 813+97 TO STA. 814+64	179		179
STA. 813+97 TO STA. 814+64 LT.		30	
STA. 813+97 TO STA. 814+64 RT.		30	
TOTAL	179	60	179

PAVEMENT MARKING REMOVAL - GRINDING	
LOCATION	PAVEMENT MARKING REMOVAL - GRINDING
	SQ. FT.
STA. 813+39 TO STA. 815+33 LT. TEMPORARY EDGE LINE	65
STA. 813+39 TO STA. 815+33 RT. TEMPORARY EDGE LINE	65
STA. 812+79 TO STA. 814+90 CL LT. (SKIP DASH)	14
STA. 812+79 TO STA. 814+90 CL RT. (SOLID)	48
STA. 814+90 TO STA. 815+93 CL LT. & RT. (SOLID)	69
STA. 812+79 TO STA. 815+93 CL	83
STA. 812+79 TO STA. 815+93 CL	83
TOTAL	427

CHANGEABLE MESSAGE SIGN	
LOCATION	CHANGEABLE MESSAGE SIGN
	CAL. DAY
NORTHWEST OF IL 34 AND C.H. 4 INTERSECTION AT HARDIN/POPE COUNTY LINE	21
SOUTH OF IL 34 AND E 950 N ROAD INTERSECTION ON IL 34	21
TOTAL	42

TREE REMOVAL SCHEDULE	
LOCATION	TREE REMOVAL UNIT
	STA. 814+07 33' LT.
STA. 814+08 35' LT.	6
STA. 814+09 35' LT.	8
STA. 814+22 40' LT.	8
STA. 814+25 40' LT.	6
STA. 814+60 30' LT.	15
TOTAL	51

TEMPORARY EROSION CONTROL ITEMS			
LOCATION	PERIMETER EROSION BARRIER	SEEDING CLASS 7	TEMPORARY EROSION CONTROL SEEDING
	FOOT	ACRE	POUND
STA. 813+75 25' LT. TO STA. 814+00 55' LT.	39		
STA. 814+00 55' LT. TO STA. 815+25 55' LT.	125		
STA. 813+25 25' RT. TO STA. 813+90 55' RT.	80		
STA. 814+15 70' RT. TO STA. 814+75 25' RT.	87		
STA. 813+25 TO STA. 815+25		0.24	24
TOTAL	331	0.24	24

STONE RIPRAP, CLASS A5 & FILTER FABRIC		
LOCATION	STONE RIPRAP, CLASS A5	FILTER FABRIC
	SQ. YD.	SQ. YD.
STA. 814+75 TO STA. 815+00 LT. (UPSTREAM)	56	56
DOWNSTREAM END OF CULVERT (FROM STRUCTURE PLANS)	63	63
STA. 814+25 TO STA. 814+50 RT.	31	31
TOTAL	150	150

TEMPORARY BRIDGE TRAFFIC SIGNALS	
LOCATION	TEMPORARY BRIDGE TRAFFIC SIGNALS
	EACH
STA. 813+29 22' RT.	0.5
STA. 815+43 22' LT.	0.5
TOTAL	1.0

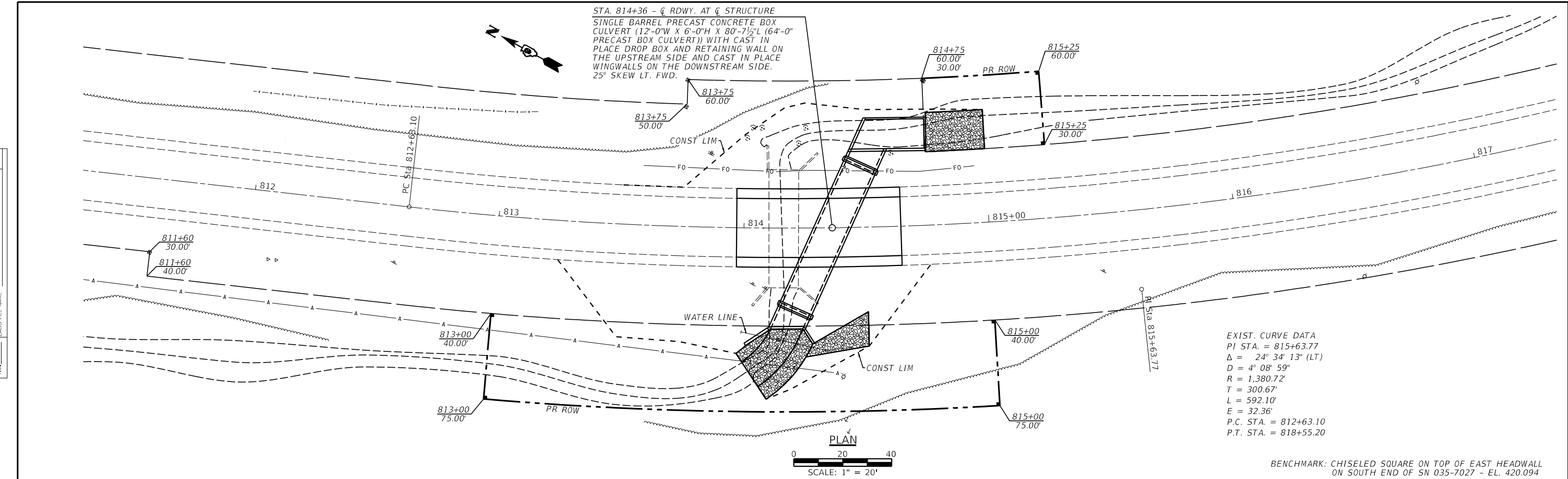
AGGREGATE SHOULDER SCHEDULE	
LOCATION	AGGREGATE WEDGE SHOULDERS, TYPE B
	TON
STA. 813+97 TO STA. 814+64 LT.	2
STA. 813+97 TO STA. 814+64 RT.	2
TOTAL	4

TEMPORARY RUMBLE STRIPS	
LOCATION	TEMPORARY RUMBLE STRIPS
	EACH
STA. 795+79 SOUTHBOUND	1
STA. 800+79 SOUTHBOUND	1
STA. 805+79 SOUTHBOUND	1
STA. 822+43 NORTHBOUND	1
STA. 827+43 NORTHBOUND	1
STA. 832+43 NORTHBOUND	1
TOTAL	6

FURNISHING AND ERECTING RIGHT OF WAY MARKERS	
LOCATION	FURNISHING AND ERECTING RIGHT OF WAY MARKERS
	EACH
STA. 813+00 40' RT. & 75' RT.	2
STA. 815+00 40' RT. & 75' RT.	2
STA. 814+75 30' LT. & 60' LT.	2
STA. 815+25 30' LT. & 60' LT.	2
TOTAL	8

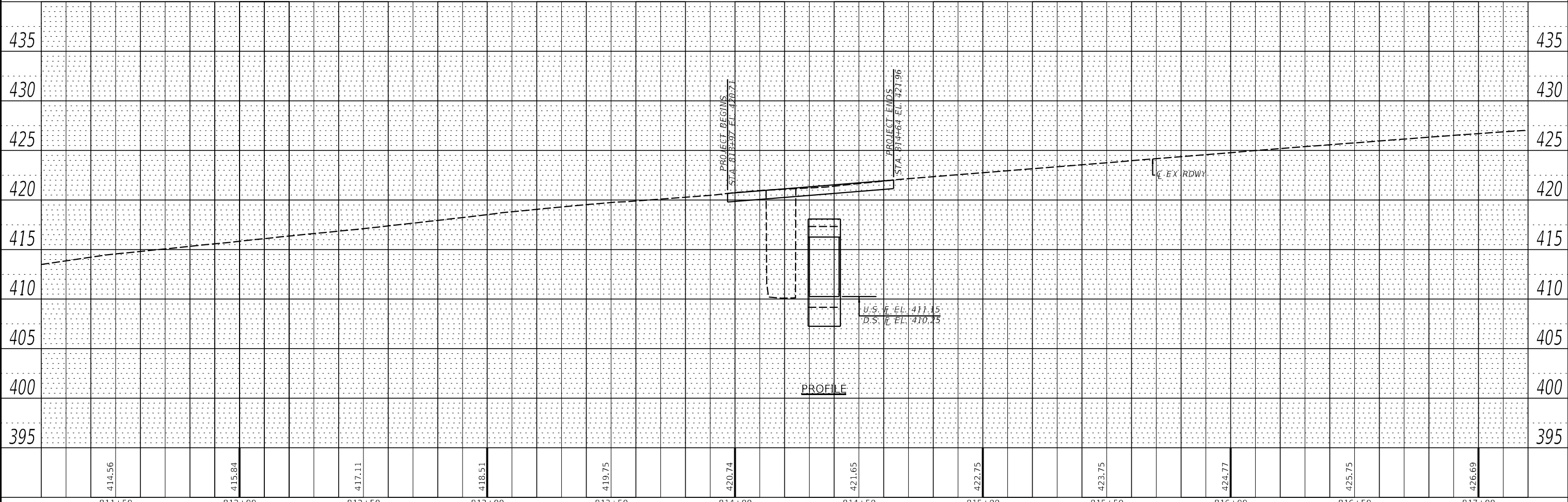
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	PLOTTED	BY
	ALIGNMENT CHECKED	
	NOTE BOOK NO.	
	FILE NAME	

PROFILE	SURVEYED	DATE
	PLOTTED	BY
	GRADES CHECKED	
	NOTE BOOK NO.	
	STRUCTURE NOTATION	



EXIST. CURVE DATA
 PI STA. = 815+63.77
 $\Delta = 24^\circ 34' 13''$ (LT)
 $D = 4^\circ 08' 59''$
 $R = 1,380.72'$
 $T = 300.67'$
 $L = 592.10'$
 $E = 32.36'$
 P.C. STA. = 812+63.10
 P.T. STA. = 818+55.20

BENCHMARK: CHISELED SQUARE ON TOP OF EAST HEADWALL ON SOUTH END OF SN 035-7027 - EL. 420.094



811+50	414.56	812+00	415.84	812+50	417.11	813+00	418.51	813+50	419.75	814+00	420.74	814+50	421.65	815+00	422.75	815+50	423.75	816+00	424.77	816+50	425.75	817+00	426.69
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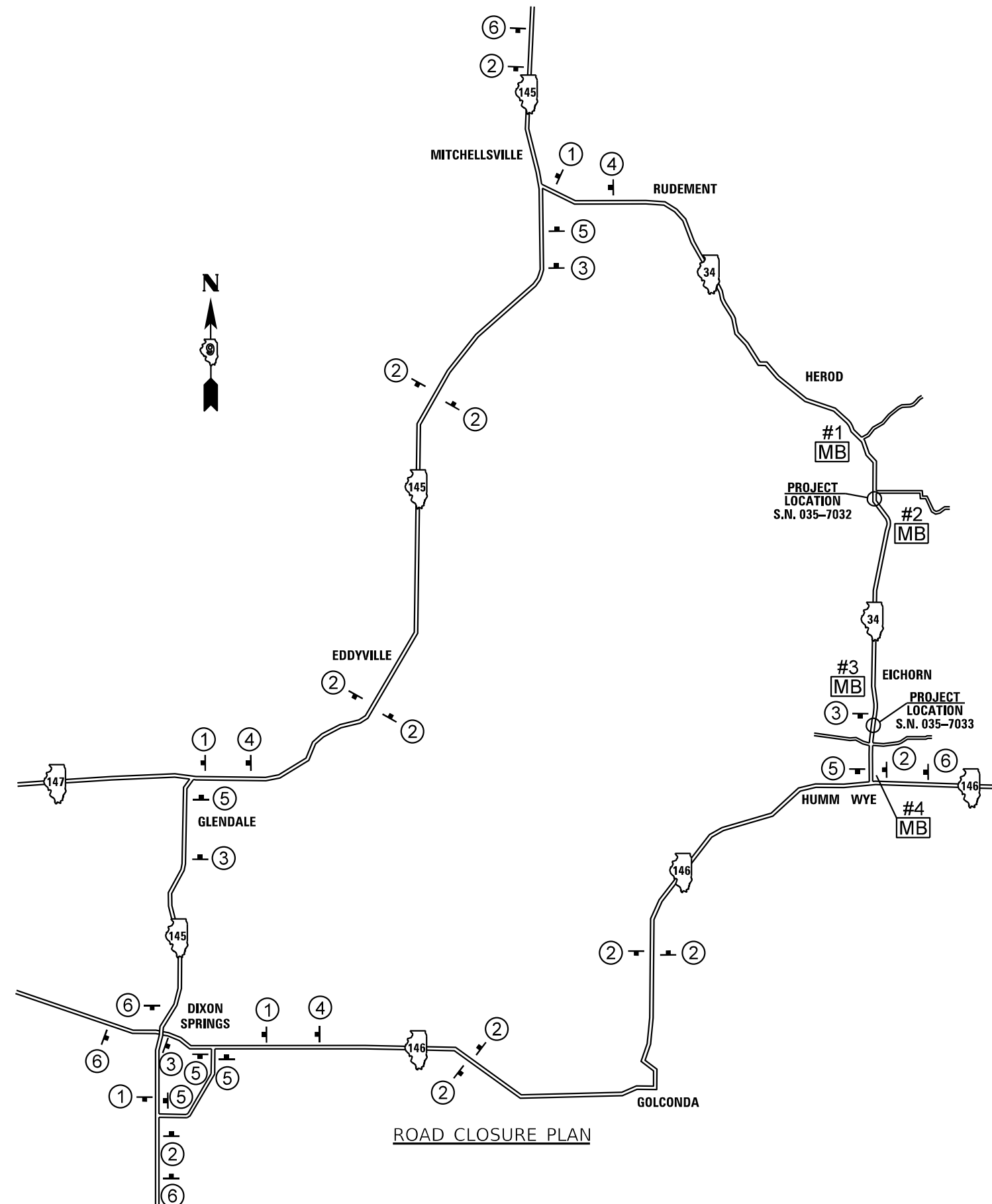
VK VEENSTRA & KIMM INC.
 Springfield, IL. Phone: (217)544-8033
 IL. Design Firm No. 184-001939

USER NAME = \$USERS	DESIGNED -	REVISED -
PLOT SCALE = \$SCALE\$	DRAWN -	REVISED -
PLOT DATE = \$DATE\$	CHECKED -	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PLAN & PROFILE
 SCALE: 1" = 20'
 SHEET 1 OF 1 SHEETS
 STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
778	3CR-1;4CR-1	HARDIN	51	15
CONTRACT NO. 78844				
ILLINOIS FED. AID PROJECT				



PRIOR TO CLOSURE
[MB] - CHANGEABLE MESSAGE BOARD - 2 REQUIRED
 (NOTIFICATION - 3 WEEKS PRIOR TO THE START OF WORK)

PRIOR TO CLOSURE

DURING CLOSURE

ILLINOIS
34
WILL BE
CLOSED

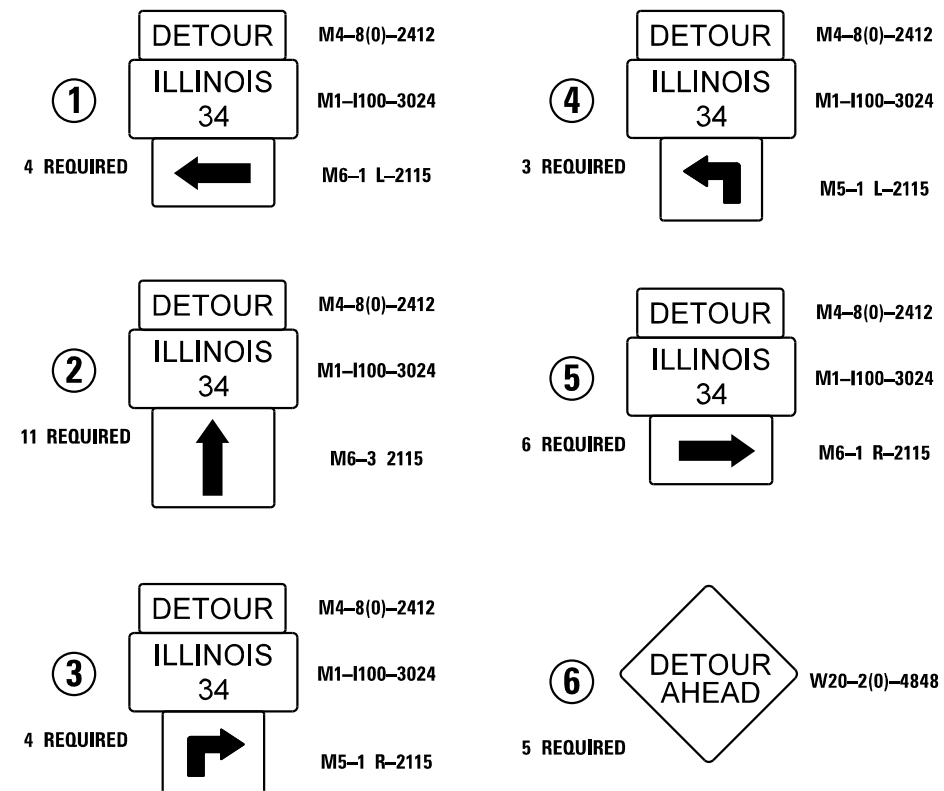
ILLINOIS
34
CLOSED

XX
MILES
AHEAD

XX
MILES
AHEAD

DATE
TO
DATE

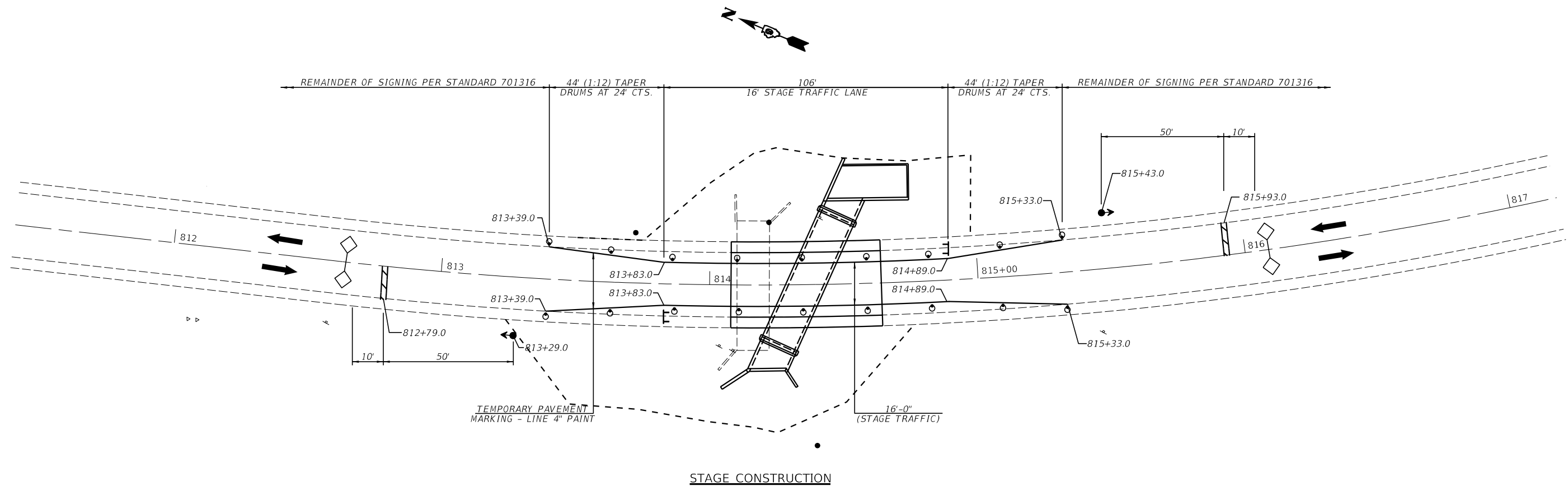
LOCAL
TRAFFIC
ONLY



- NOTES:
1. THE CONTRACTOR HAS THE OPTION OF USING METAL POSTS INSTEAD OF WOOD.
 2. ALL SIGNS SHALL BE BLACK ON ORANGE. THE POSTS SHALL BE PLACED 12' FEET FROM THE EDGE OF PAVEMENT AS DIRECTED BY THE ENGINEER.
 3. ALL SIGNS AND HARDWARE REQUIRED TO INSTALL THE DETOUR ROUTE SIGNING SHALL BE INCLUDED IN COST OF DETOUR SIGNING.
 4. SIGNS SHALL BE REMOVED ON COMPLETION OF THE CONTRACT AT THE DIRECTION OF THE ENGINEER. THIS WORK SHALL BE COMPLETED ACCORDING TO SECTION 724. THIS WORK WILL NOT BE PAID FOR. THE SIGNS AND POSTS SHALL BECOME THE PROPERTY OF THE CONTRACTOR.
 5. THE RELOCATING MAINTENANCE OR REPLACEMENT OF SIGNS SHALL BE INCLUDED IN COST OF DETOUR SIGNING.
 6. EXACT SIGN PLACEMENT WILL BE DETERMINED BY THE ENGINEER.
 7. ALL EXISTING SIGNING THAT IS NOT APPLICABLE WHILE THE ROAD CLOSURE IS IN EFFECT SHALL BE COMPLETELY COVERED BY THE CONTRACTOR.
 8. THE DISTRICT 9 OPERATIONS ENGINEER SHALL BE CONTACTED 10 DAYS PRIOR TO ERECTION OF THE SIGNS.
 9. THE SIGNS ON THIS SHEET WILL BE USED FOR THE REPLACEMENT OF BOTH STRUCTURES.

USER NAME =	DESIGNED -	REVISED -
	CHECKED -	REVISED -
PLOT SCALE =	DRAWN -	REVISED -
PLOT DATE =	CHECKED -	REVISED -

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
778	3CR-1;4CR-1	HARDIN	51	16
CONTRACT NO. 78844				
ILLINOIS FED. AID PROJECT				



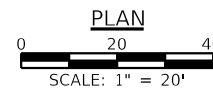
STAGE CONSTRUCTION

GENERAL NOTES

1. TRAFFIC CONTROL SHALL BE ERECTED AS SHOWN ACCORDING TO "TRAFFIC CONTROL & PROTECTION, STANDARD 701316.
2. SEE SPECIAL PROVISIONS FOR ADDITIONAL TRAFFIC CONTROL REQUIREMENTS.
3. COORDINATE LOCATION OF SIGNALS WITH FINAL WORK AS DIRECTED BY THE ENGINEER.
4. ADDITIONAL SIGNAGE FOR ADVANCE WIDTH RESTRICTION WARNING SHALL BE INCLUDED IN THE COST OF STANDARD 701316.
5. SEE STD 701316 FOR COMPLETION OF STAGE CONSTRUCTION SIGNING AND ADVANCE DETECTOR LOOP PLACEMENT NOT SHOWN.
6. 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.
7. THE CENTERLINE PAVEMENT MARKING SHOULD BE REMOVED FROM THE STOP BAR TO THE DRUMS, EDGE LINE PAVEMENT MARKING SHOULD BE REMOVED IF A 10 FOOT LANE WIDTH CANNOT BE MAINTAINED. TEMPORARY EDGE LINES SHOULD BE INSTALLED WHEN THE EDGE LINES ARE REMOVED.
8. ANY TIME THE DRUMS WITH STEADY BURNING LIGHT IS NOT IN THE PROPER POSITION, FLAGGERS SHALL BE IN PLACE TO CONTROL TRAFFIC AND THE TEMPORARY TRAFFIC SIGNALS BE TURNED OFF OR COVERED.
9. ALL TRAFFIC SIGNALS SHOWN ARE INCLUDED IN TEMPORARY BRIDGE TRAFFIC SIGNALS - 1 EACH
10. THE COST OF THE TEMPORARY PAVEMENT MARKING AND ITS REMOVAL WILL BE INCLUDED IN THE COST OF STANDARD 701316.

LEGEND

- ⊠ SIGN
- ⊠ TYPE III BARRICADE
- ⊙ DRUM WITH STEADY BURNING LIGHT
- ⊙ TRAFFIC SIGNAL
- ◇ INDUCTION LOOP DETECTOR

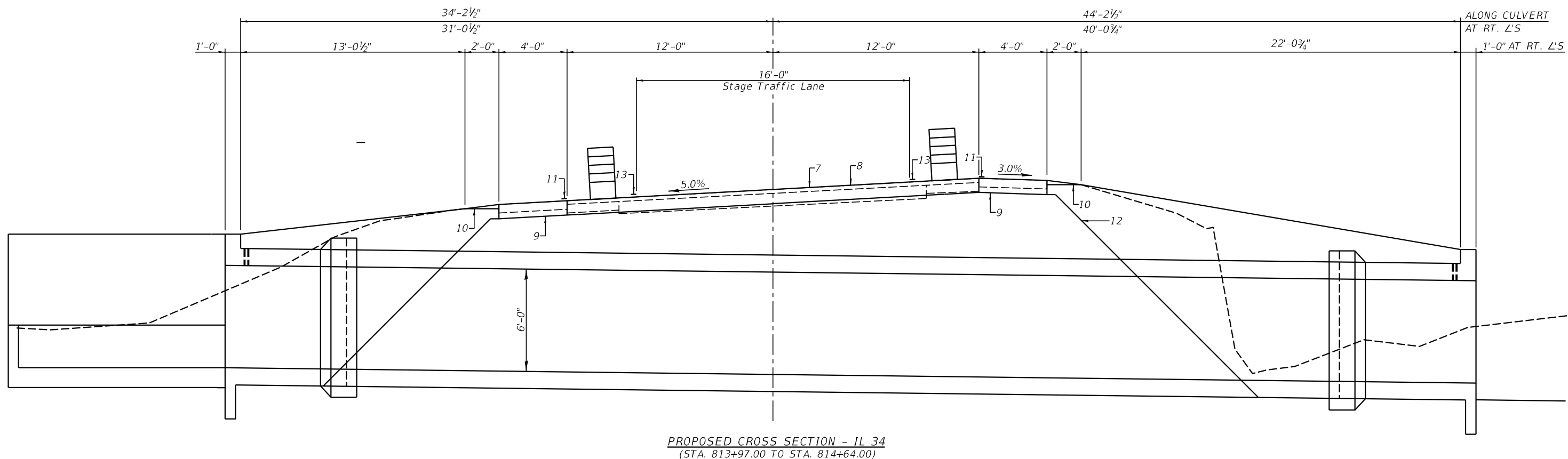
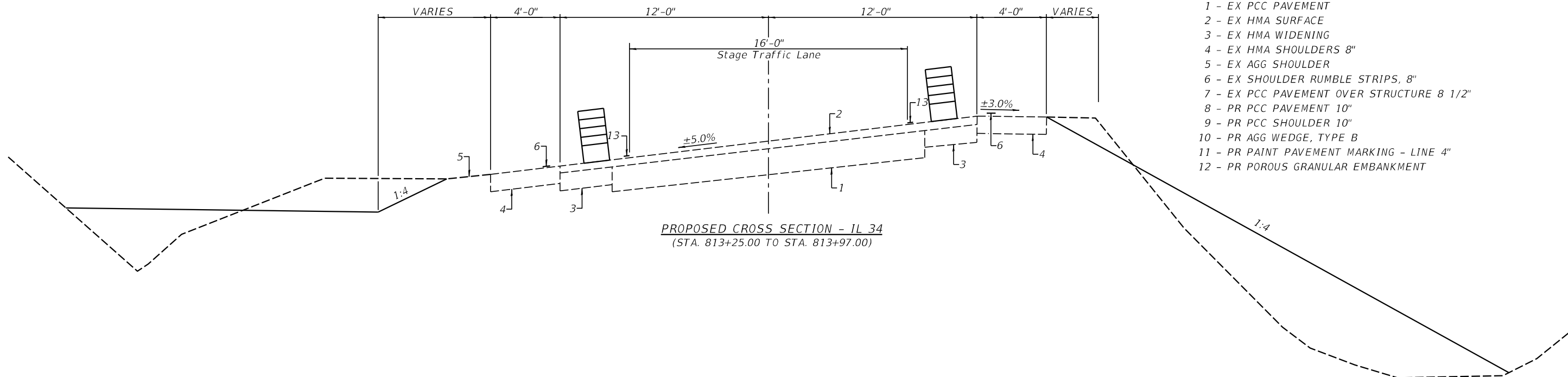


USER NAME =	DESIGNED -	REVISED -
	CHECKED -	REVISED -
PLOT SCALE =	DRAWN -	REVISED -
PLOT DATE =	CHECKED -	REVISED -

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
778	3CR-1;4CR-1	HARDIN	51	17
CONTRACT NO. 78844				
ILLINOIS FED. AID PROJECT				

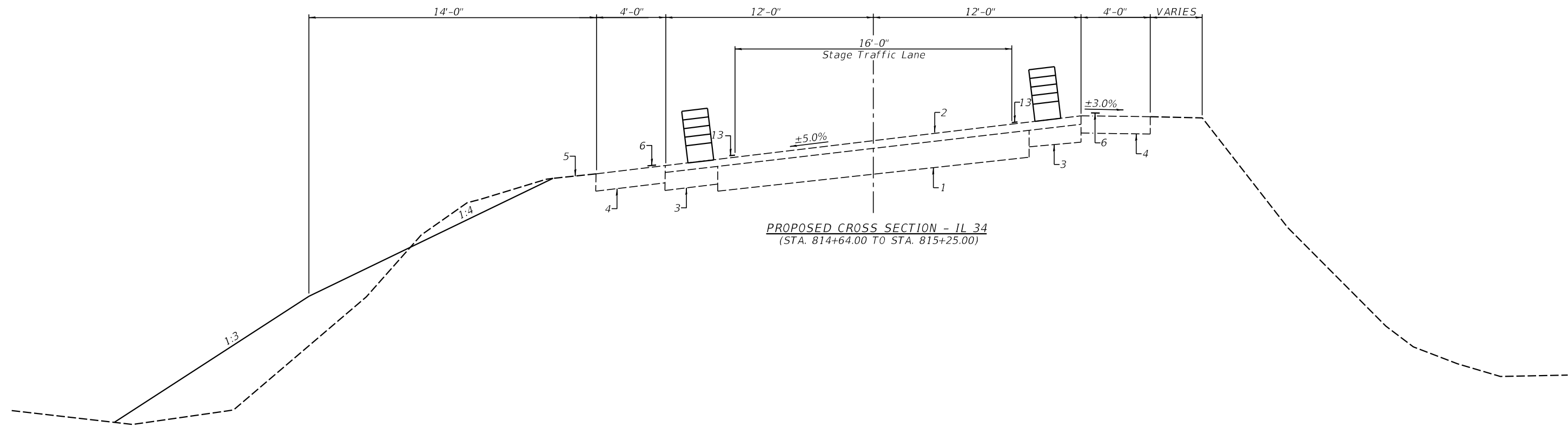
LEGEND

- 1 - EX PCC PAVEMENT
- 2 - EX HMA SURFACE
- 3 - EX HMA WIDENING
- 4 - EX HMA SHOULDERS 8"
- 5 - EX AGG SHOULDER
- 6 - EX SHOULDER RUMBLE STRIPS, 8"
- 7 - EX PCC PAVEMENT OVER STRUCTURE 8 1/2"
- 8 - PR PCC PAVEMENT 10"
- 9 - PR PCC SHOULDER 10"
- 10 - PR AGG WEDGE, TYPE B
- 11 - PR PAINT PAVEMENT MARKING - LINE 4"
- 12 - PR POROUS GRANULAR EMBANKMENT



USER NAME =	DESIGNED -	REVISED -
	CHECKED -	REVISED -
PLOT SCALE =	DRAWN -	REVISED -
PLOT DATE =	CHECKED -	REVISED -

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
778	3CR-1;4CR-1	HARDIN	51	18
CONTRACT NO. 78844				
ILLINOIS FED. AID PROJECT				



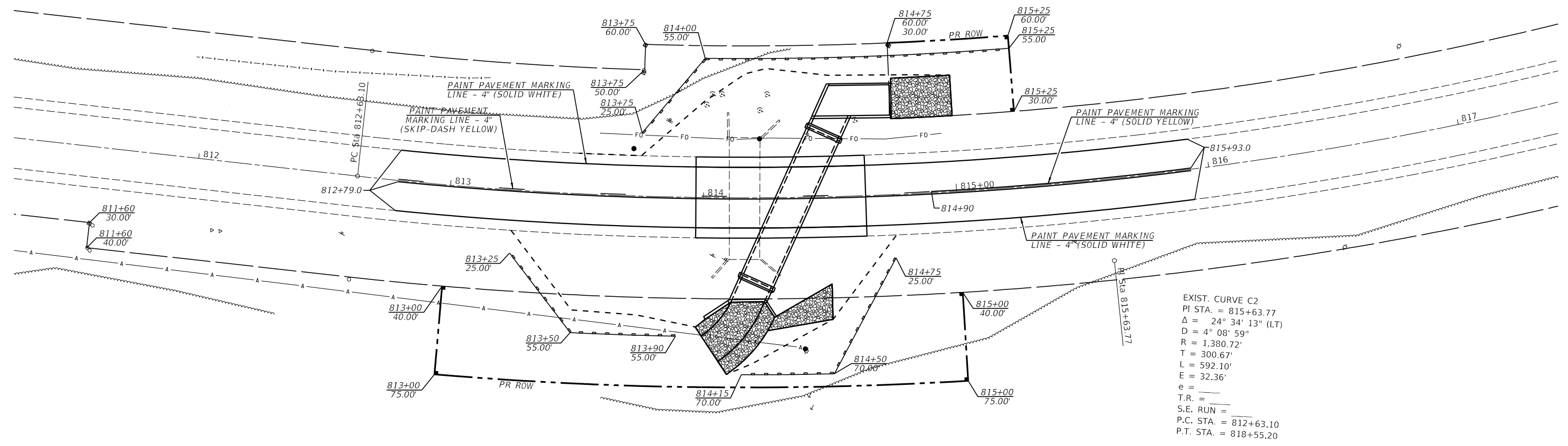
PROPOSED CROSS SECTION - IL 34
(STA. 814+64.00 TO STA. 815+25.00)

LEGEND

- 1 - EX PCC PAVEMENT
- 2 - EX HMA SURFACE
- 3 - EX HMA WIDENING
- 4 - EX HMA SHOULDERS 8"
- 5 - EX AGG SHOULDER
- 6 - EX SHOULDER RUMBLE STRIPS, 8"
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- 10 - PR AGG WEDGE, TYPE B
- 11 - PR PAINT PAVEMENT MARKING - LINE 4"
- 12 - PR POROUS GRANULAR EMBANKMENT

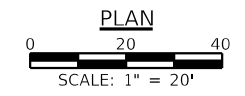
USER NAME =	DESIGNED -	REVISED -
	CHECKED -	REVISED -
PLOT SCALE =	DRAWN -	REVISED -
PLOT DATE =	CHECKED -	REVISED -

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
778	3CR-1;4CR-1	HARDIN	51	19
CONTRACT NO. 78844				
ILLINOIS FED. AID PROJECT				



EXIST. CURVE C2
 PI STA. = 815+63.77
 $\Delta = 24^\circ 34' 13''$ (LT)
 $D = 4^\circ 08' 59''$
 $R = 1,380.72'$
 $T = 300.67'$
 $L = 592.10'$
 $E = 32.36'$
 $e =$
 $T.R. =$
 $S.E. RUN =$
 $P.C. STA. = 812+63.10$
 $P.T. STA. = 818+55.20$

EROSION CONTROL LEGEND
 ——— PERIMETER EROSION BARRIER



VK VEENSTRA & KIMM INC.
 Springfield, IL. Phone: (217)544-8033
 IL. Design Firm No. 184-001939

USER NAME =	DESIGNED -	REVISED -
	CHECKED -	REVISED -
PLOT SCALE =	DRAWN -	REVISED -
PLOT DATE =	CHECKED -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

PAVEMENT MARKING PLAN / EROSION CONTROL PLAN

SCALE: 1"=20' SHEET NO. 1 OF 2 SHEETS STA. _____ TO STA. _____

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
778	3CR-1;4CR-1	HARDIN	51	20
CONTRACT NO. 78844				
ILLINOIS FED. AID PROJECT				

ALIGNMENT INFO

FAP 778 (IL RTE 34)

POINT#	STATION	NORTHING	EASTING
STAEQU3	810+06.37	325541.76	962824.48
P.C.13	812+63.10	325304.42	962922.35
P.T.13	818+55.20	324821.32	963256.80

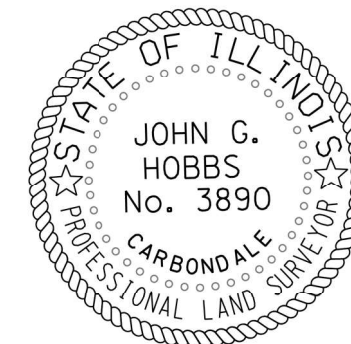
CURVE IL34_TL_13

PI STA. = 815+63.77
 $\Delta = 24^\circ 34' 13''$ (LT)
 $D = 4^\circ 08' 59''$
 $T = 300.67'$
 $L = 592.10'$
 $R = 1,380.72'$
 $LC = 587.57'$
 PC STA. = 812+63.10
 PT STA. = 818+55.20

PARCEL#	PROPERTY OWNER	PURPOSE	ACREAGE
030	WELDON B. & LYNETTE L. ING	R.O.W.	0.167 ACRES±
032	DEAN L. KLAUS	R.O.W.	0.033 ACRES±

NE QUARTER SW QUARTER
 SECTION 14
 T. 11 S., R. 7 E., 3RD P.M.

NE QUARTER SW QUARTER
 SECTION 14
 T. 11 S., R. 7 E., 3RD P.M.



JOHN G. HOBBS
 ILLINOIS PROFESSIONAL LAND SURVEYCR

Current license expires 11/2024.

This professional service conforms to the current Illinois minimum standards for a boundary survey.

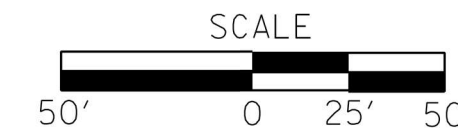
COORDINATE DATA

PT#	NORTHING	EASTING
J1	325225.55	963013.68
J2	325230.10	963022.59
J3	325146.56	963069.14
J4	325131.02	963043.48
J5	325089.65	963069.57
J6	325106.11	963094.65
J9	325289.17	962885.37
J14	325254.26	962900.31
J15	325240.06	962868.33
J16	325054.20	962967.53
J17	325072.87	962997.13
J18	324948.40	963176.15
J19	324947.55	963086.00
J21	324948.03	963137.14
J22	325323.48	962968.57

PARCEL
030

PARCEL
032

QUARTER QUARTER SECTION LINE



MODEL: S:\MODELS\NAMES FILE: NAME: SHELVE

VEENSTRA & KIMM INC.
 Springfield, IL. Phone: (217)544-8033
 IL. Design Firm No. 184-001939

USER NAME = \$USERS	DESIGNED - _____	REVISED - _____
PLOT SCALE = \$SCALE\$	DRAWN - _____	REVISED - _____
PLOT DATE = \$DATES	CHECKED - _____	REVISED - _____
	DATE - _____	REVISED - _____

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

ROW PLAN SN 035-7032

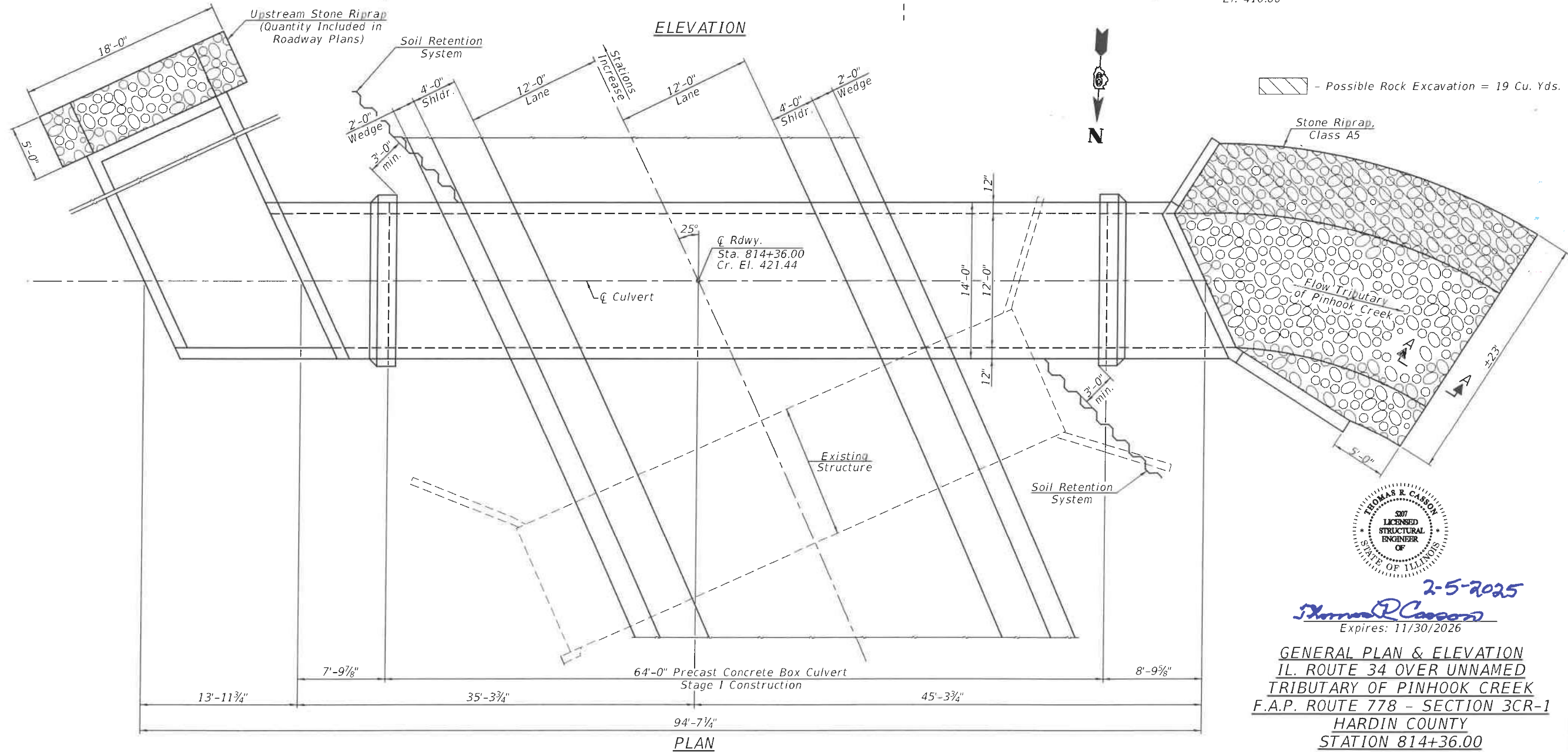
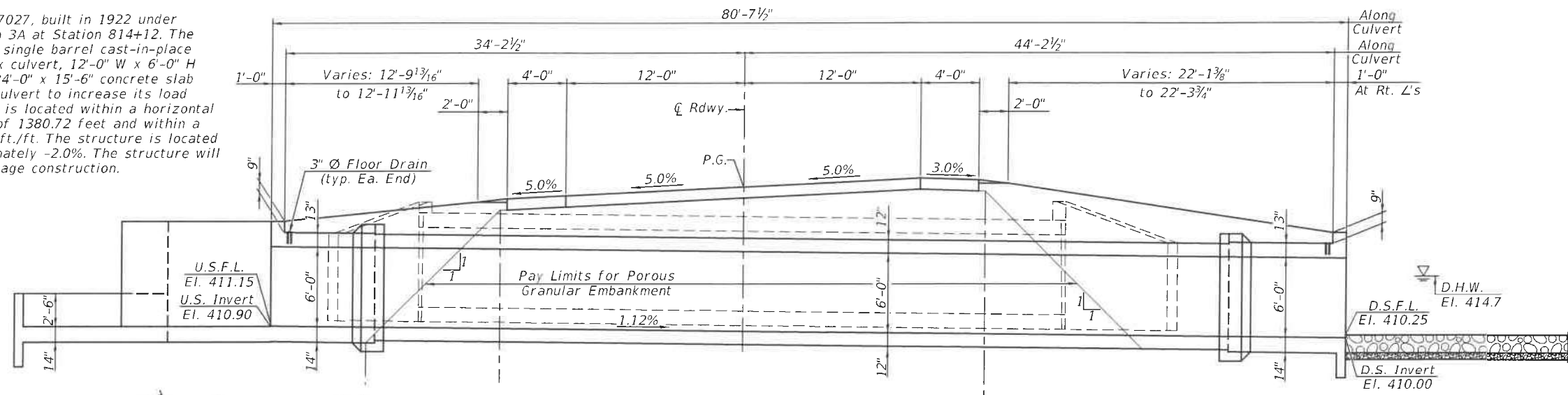
SCALE: 1" = 20' SHEET 1 OF 1 SHEETS STA. _____ TO STA. _____

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
778	3CR-1;4CR-1	HARDIN	51	21
CONTRACT NO. 78844				
ILLINOIS FED. AID PROJECT				

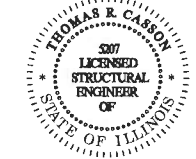
Bench Mark: Chiseled "□" on top of east headwall, south end
S.N. 035-7027 - El. 420.094

Existing Structure: Structure number 035-7027, built in 1922 under S.B.I. Route 34, Section 3A at Station 814+12. The existing structure is a single barrel cast-in-place reinforced concrete box culvert, 12'-0" W x 6'-0" H x 48'-0" L. In 2018, a 24'-0" x 15'-6" concrete slab was placed above the culvert to increase its load capacity. The structure is located within a horizontal curve having a radius of 1380.72 feet and within a superelevation of 0.05 ft./ft. The structure is located on a grade of approximately -2.0%. The structure will be replaced utilizing stage construction.

No salvage.



▨ - Possible Rock Excavation = 19 Cu. Yds.



2-5-2025
Thomas P. Carson
Expires: 11/30/2026

GENERAL PLAN & ELEVATION
IL. ROUTE 34 OVER UNNAMED
TRIBUTARY OF PINHOOK CREEK
F.A.P. ROUTE 778 - SECTION 3CR-1
HARDIN COUNTY
STATION 814+36.00

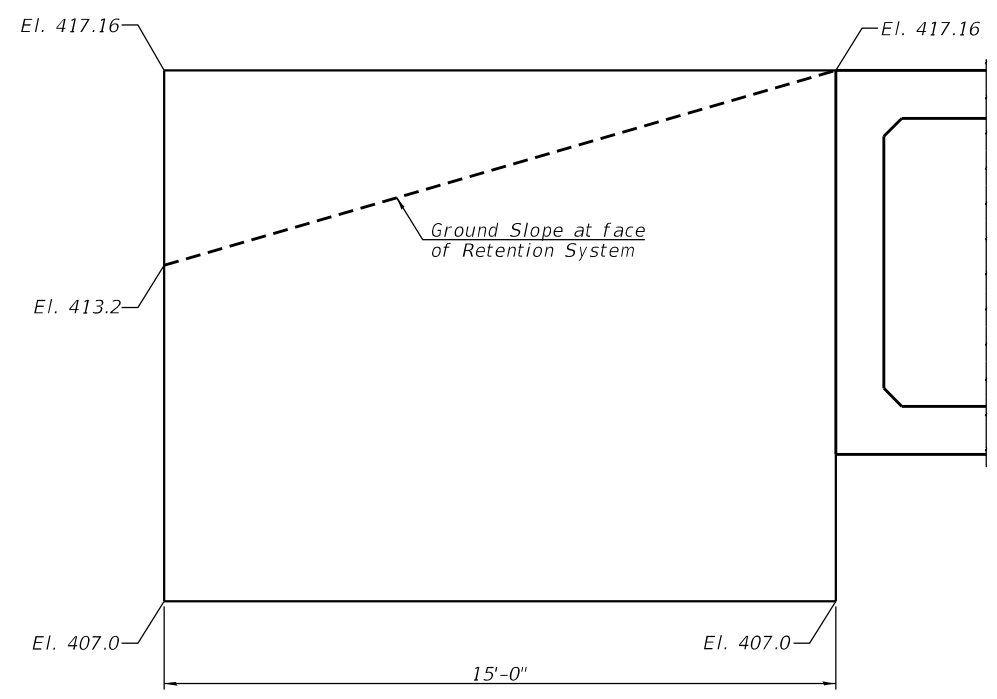
VK VEENSTRA & KIMM INC.
Springfield, IL. Phone: (217)544-8033
IL. Design Firm No. 184-001939

USER NAME =	DESIGNED - KES	REVISED -
PLDT SCALE =	CHECKED - TRC	REVISED -
PLDT DATE =	DRAWN - JRP	REVISED -
	CHECKED - TRC	REVISED -

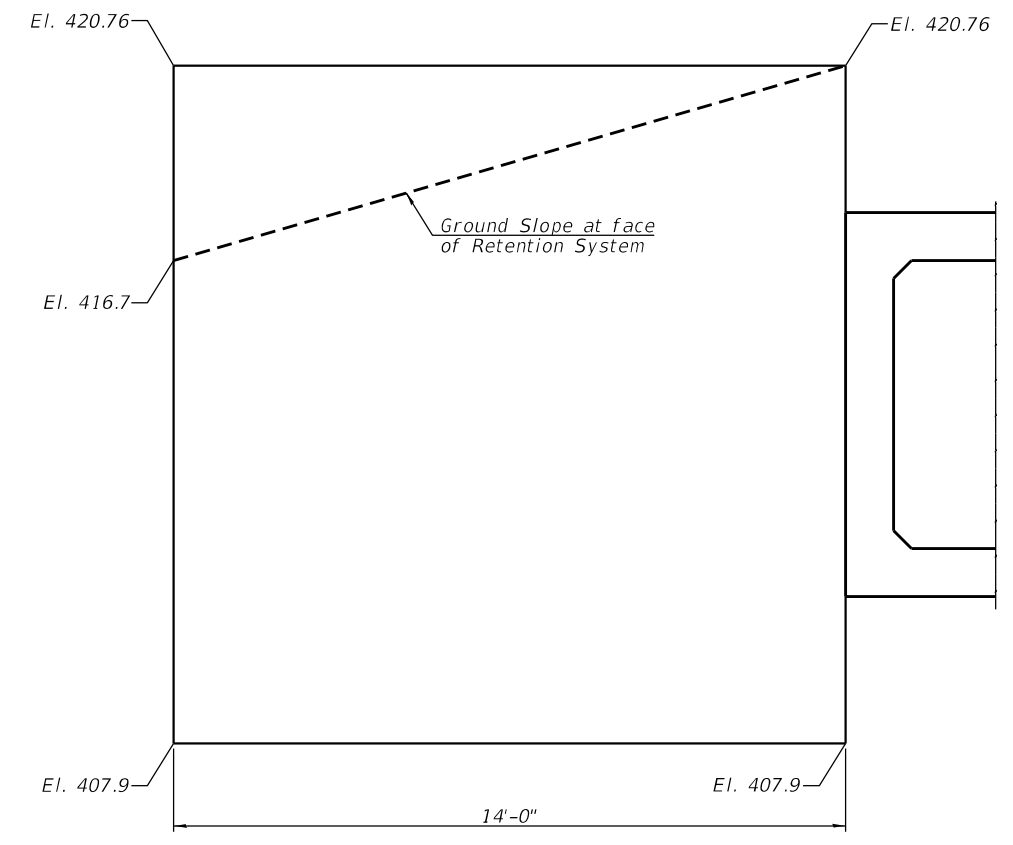
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL PLAN & ELEVATION
STRUCTURE NO. 035-7032
SHEET NO. 1 OF 8 SHEETS

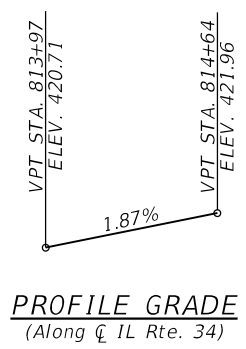
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
778	3CR-1:4CR-1	HARDIN	51	22
CONTRACT NO. 78844			ILLINOIS FED. AID PROJECT	



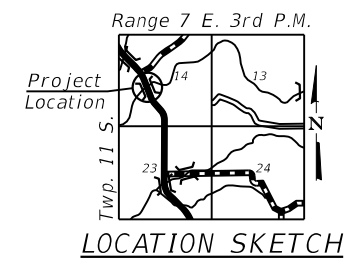
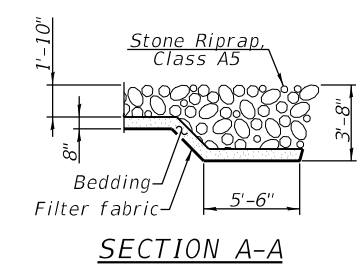
TEMPORARY SOIL RETENTION SYSTEM
(Northwest Corner of Precast Concrete Culvert)



TEMPORARY SOIL RETENTION SYSTEM
(Southeast Corner of Precast Concrete Culvert)



PROFILE GRADE
(Along \bar{C} IL Rte. 34)



TOTAL BILL OF MATERIAL

Item	Unit	Total
Rock Excavation	Cu. Yd.	19
Porous Granular Embankment	Cu. Yd.	705
Stone Riprap, Class A5	Sq. Yd.	63
Filter Fabric	Sq. Yd.	63
Removal of Existing Structures No. 1	Each	1
Reinforcement Bars, Epoxy Coated	Pound	12,560
Temporary Soil Retention System	Sq. Ft.	333
Concrete Box Culverts	Cu. Yd.	69.3
Precast Concrete Box Culverts 12'x6'	Foot	64
Geocomposite Wall Drain	Sq. Yd.	137
Waterproofing Membrane System for Buried Structures	Sq. Yd.	137

WATERWAY INFORMATION

Drainage Area =		Exist. Overtopping Elev. = None				
0.2 Sq. Mi.		Prop. Overtopping Elev. = None				
Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft.	Nat. H.W.E.	Head - Ft.	Headwater El.
			Exist. Prop.		Exist. Prop.	Exist. Prop.
	10	310	25 24	413.8	2.6 1.1	416.4 414.9
Design	50	496	35 32	414.7	3.3 1.6	418.0 416.3
Base	100	580	39 37	415.2	3.5 1.8	418.7 417.0
Overtop Prop.	50	798	52 48	416.8	4.1 2.1	420.9 418.9

10 Yr. Outlet Velocity through Exist. Structure = 12.5 ft/s
10 Yr. Outlet Velocity through Prop. Structure = 12.9 ft/s

GENERAL NOTES

Reinforcement bars designated (E) shall be epoxy coated.
Weep holes shall be provided on exterior culvert walls with a clear rise greater than 3 feet and one in each of the wingwalls. The weep holes shall be located within 1/3 of the clear rise of the box culvert and shall conform to the requirements of Article 503.11 of the Standard Specifications.
Layout of the slope protection system may be varied to suit ground conditions in the field as directed by the Engineer.
At least half the wingwall length, but not less than 6'-0" of the barrel, shall be poured monolithically with the wingwalls.

LOADING HL-93

Allow 50#/sq. ft. for future wearing surface

DESIGN SPECIFICATIONS

2020 AASHTO LRFD Bridge Design Specifications, 9th Edition

DESIGN STRESSES

PRECAST UNITS

f'c = 5,000 psi
fy = 65,000 psi (Welded Wire Fabric)
fy = 60,000 psi (Reinforcement)

FIELD UNITS

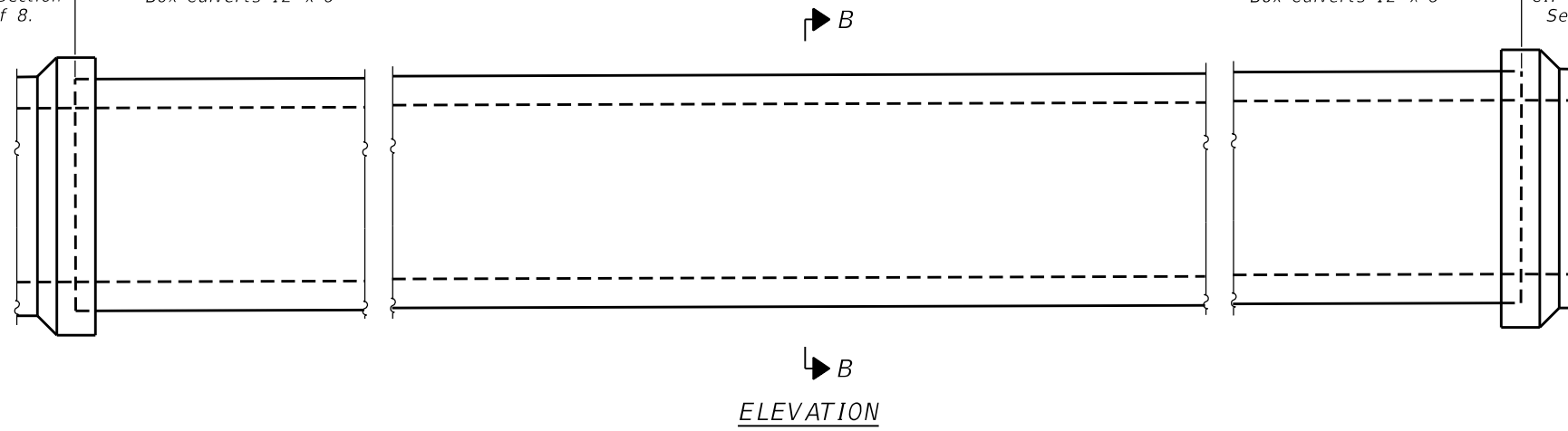
f'c = 3,500 psi
fy = 60,000 psi (Reinforcement)

Pay Limits for
CIP Box Culvert Section
See sheet 4 of 8.

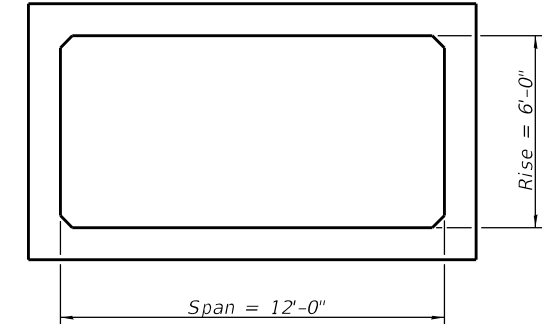
Pay Limits for Precast Concrete
Box Culverts 12' x 6'

Pay Limits for Precast Concrete
Box Culverts 12' x 6'

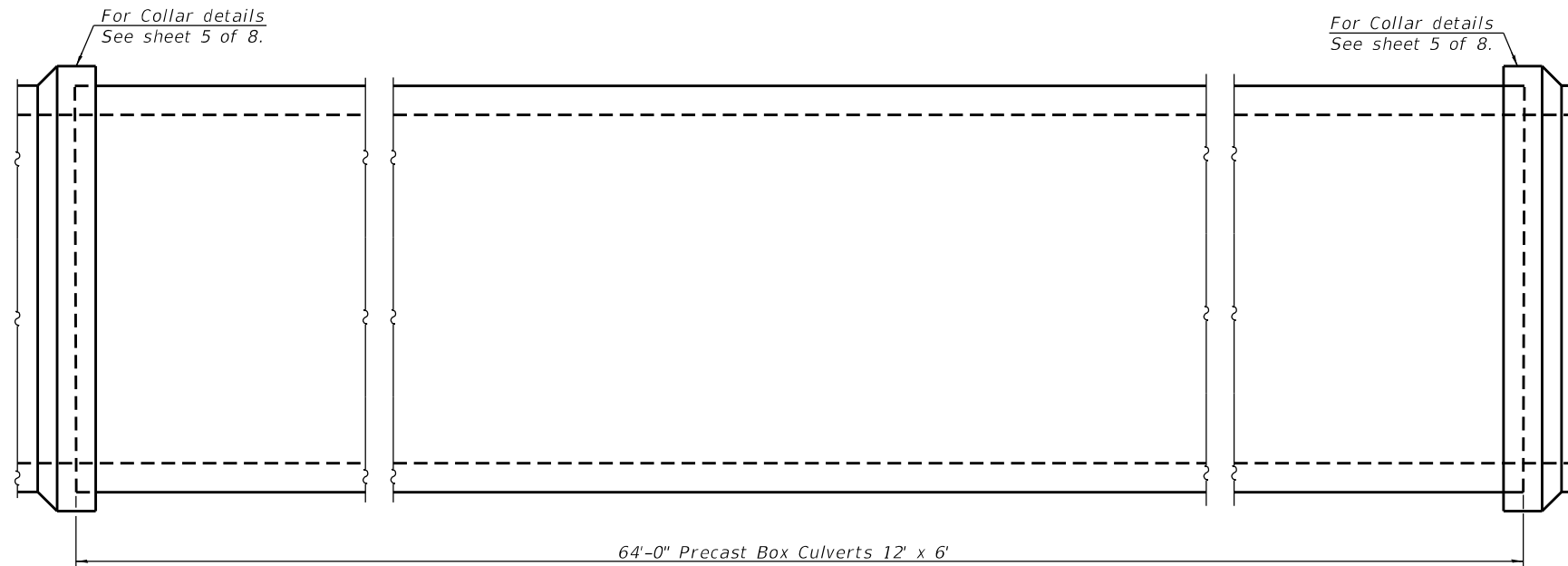
Pay Limits for
CIP Box Culvert Section
See sheets 5-7 of 8.



ELEVATION



SECTION B-B



PLAN

GENERAL NOTES

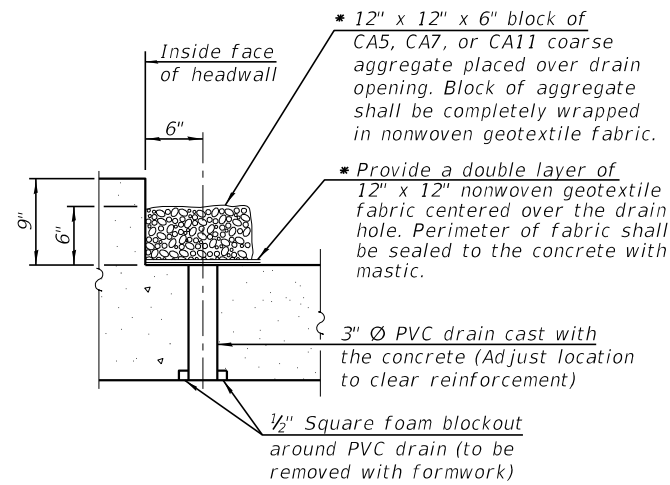
Precast Concrete Box Culverts 12' x 6' shall be constructed according to the requirements of Section 540 of the Standard Specifications except as modified herein. This work will be measured for payment per foot and will be paid for at the contract unit price per foot for Precast Concrete Box Culverts 12' x 6' as specified.

Typical box section dimensions, materials, and reinforcement details for Precast Concrete Box Culverts 12' x 6' shall be according to the requirements of ASTM C 1577.

BILL OF MATERIAL

Item	Unit	Total
Precast Concrete Box Culverts 12' x 6'	Foot	64
Geocomposite Wall Drain	Sq. Yd.	137
Membrane Waterproofing System for Buried Structures	Sq. Yd.	137
Porous Granular Embankment	Cu. Yd.	705

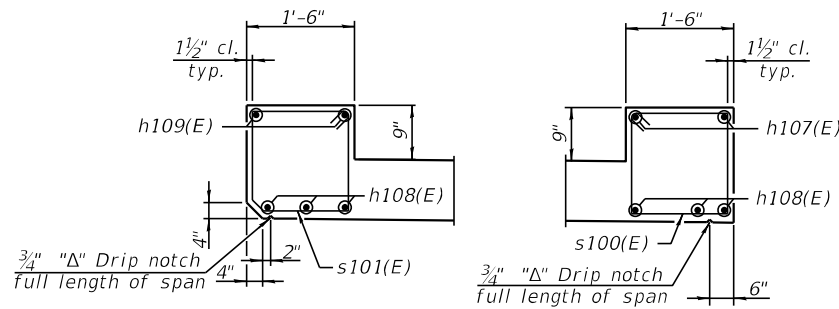
Note: See sheet 8 of 8 for Geocomposite Wall Drain, Membrane Waterproofing System for Buried Structures and Porous Granular Embankment.



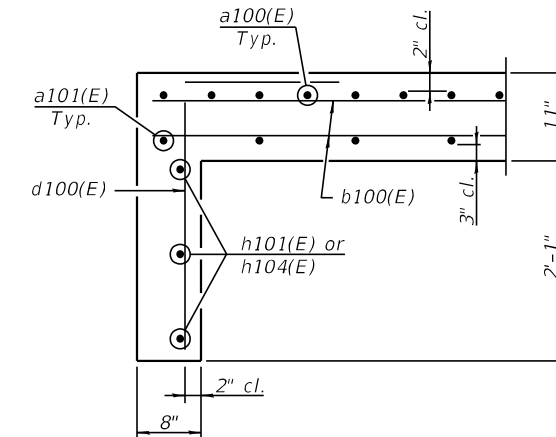
DRAIN DETAIL

(All costs associated with furnishing and constructing the drain detail will not be measured for payment but shall be included in the contract unit price for the associated work.)

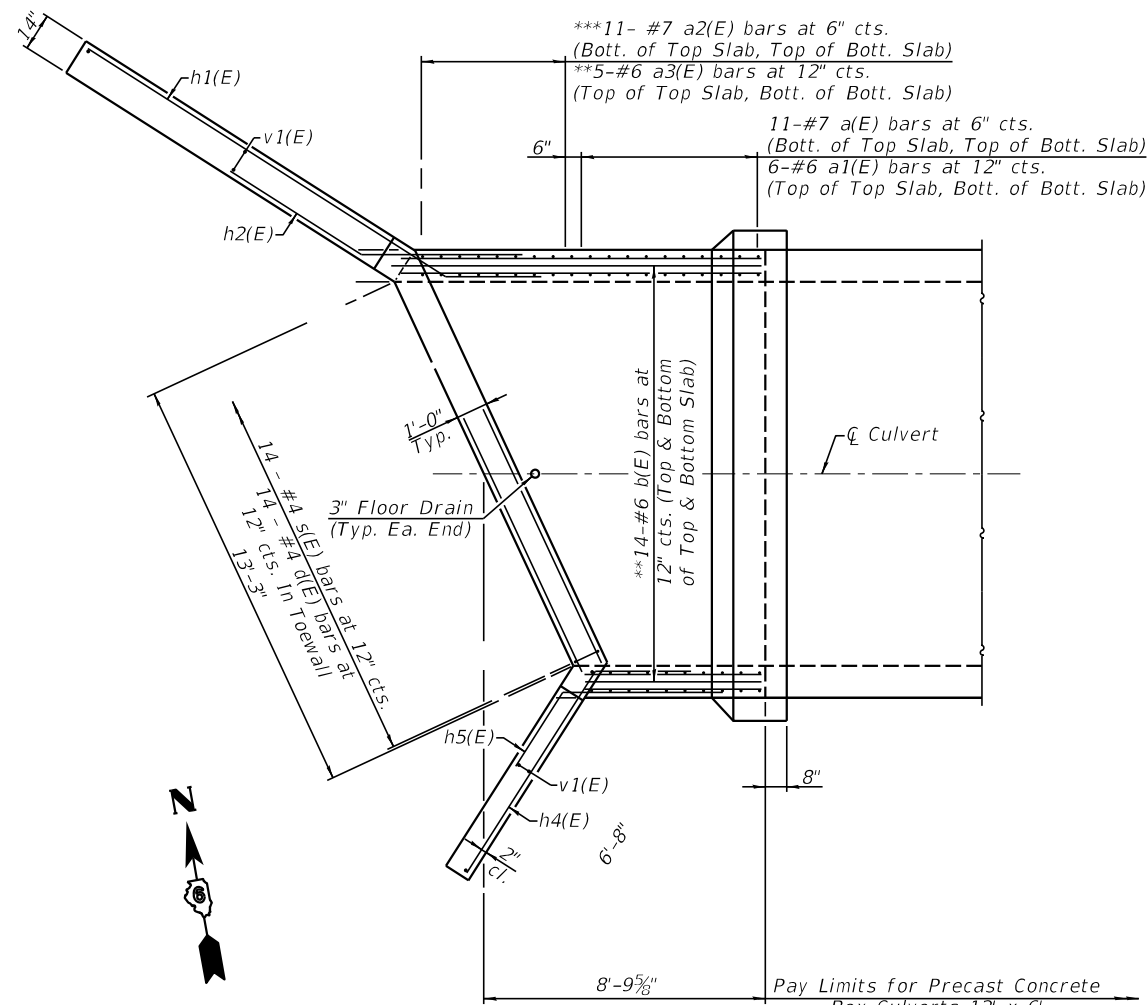
* Nonwoven geotextile fabric shall conform to the requirements of Article 1080.01 of the Standard Specifications. The minimum weight of the fabric shall be 6 ounces per square yard.



AT UPSTREAM END **AT DOWNSTREAM END**
HEADWALL SECTION

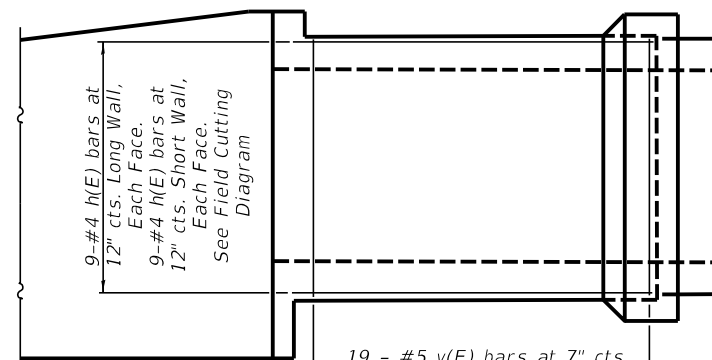


SECTION THRU TOEWALL

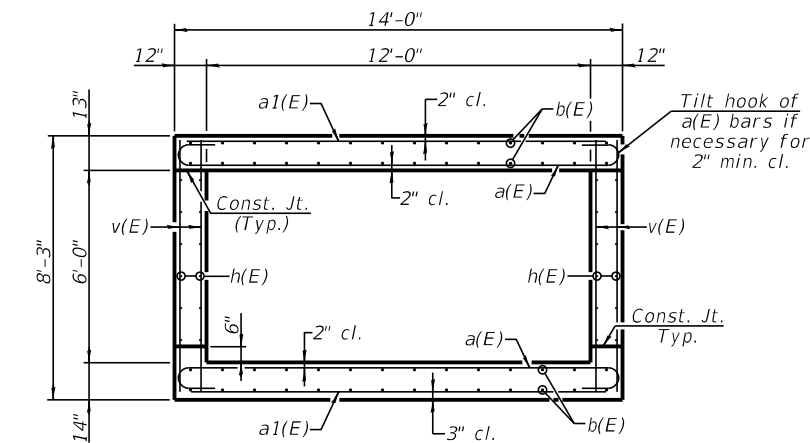


PLAN - WEST END

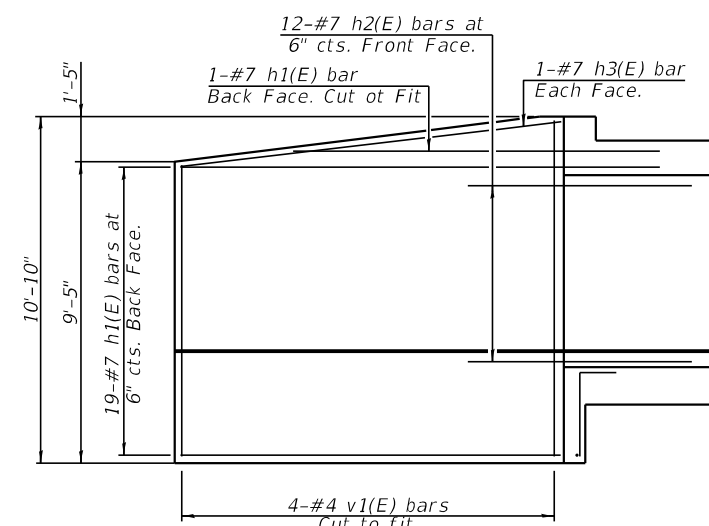
** Use remainder of bar in opposite face.
*** Cut to fit.



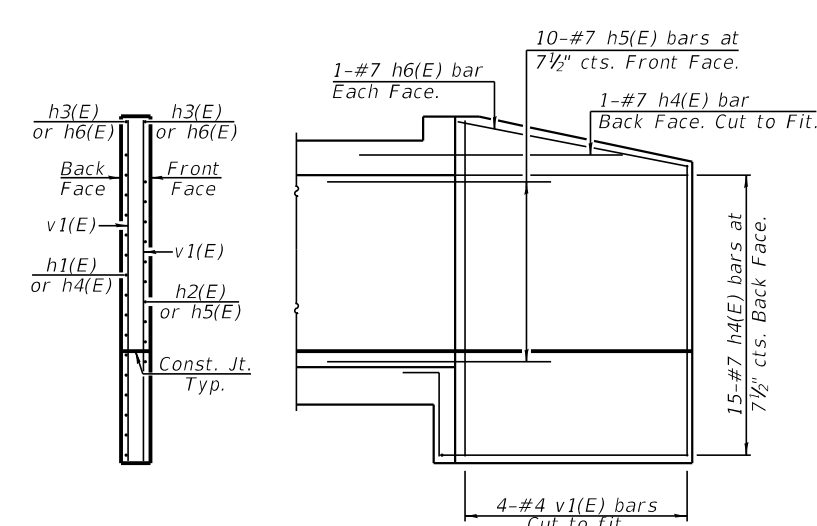
HALF LONGITUDINAL SECTION
(Showing Wall Reinforcement)



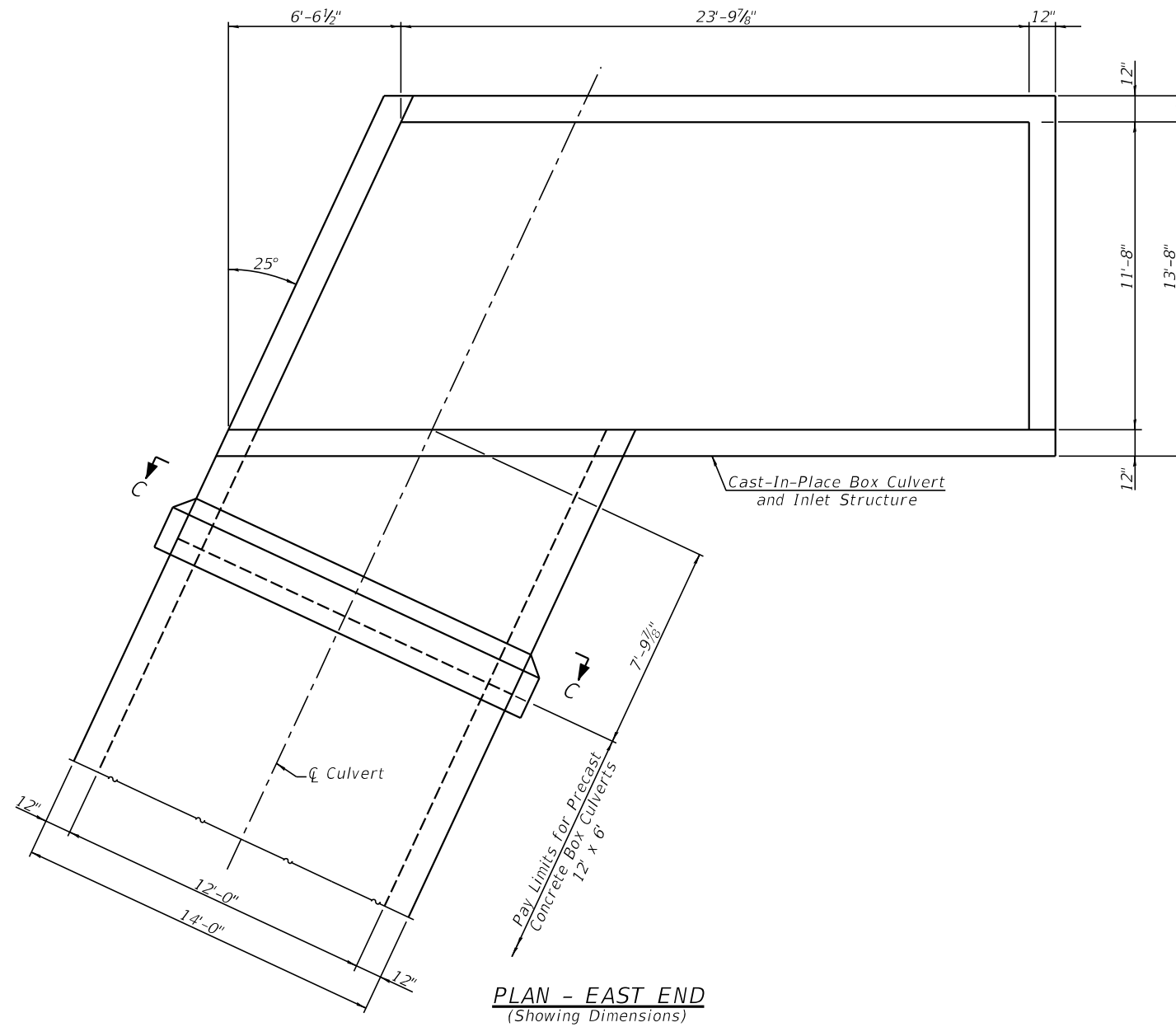
SECTION THRU CAST-IN-PLACE BARREL



ELEVATION
(Long Wing)

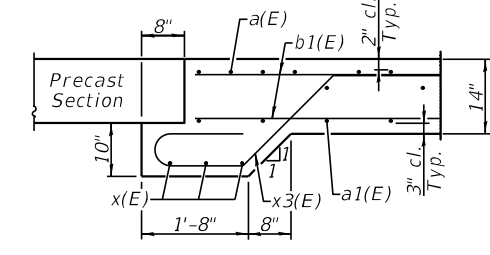
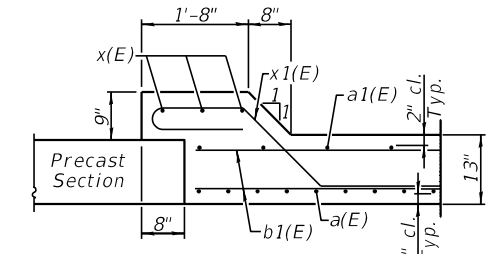
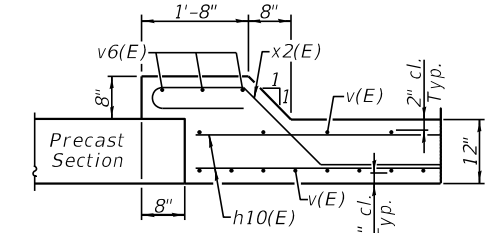
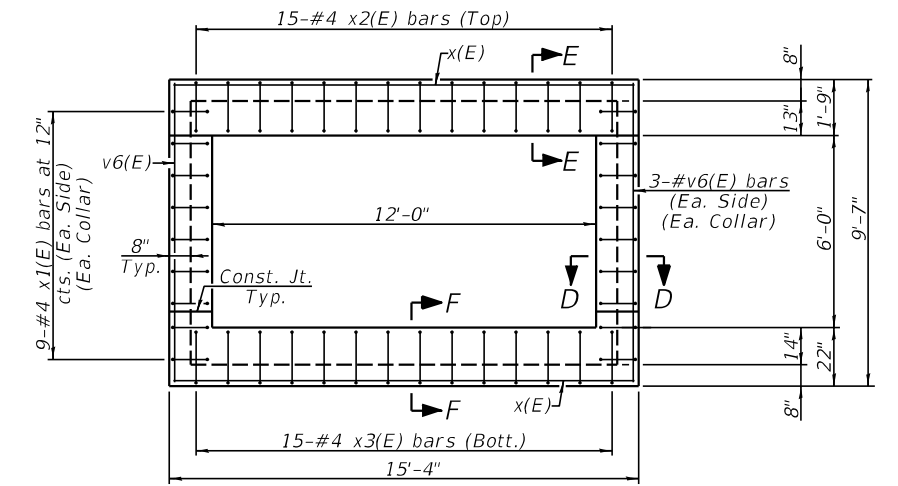


ELEVATION
(Short Wing)



Cast-In-Place Box Culvert
and Inlet Structure

Pay Limits for Precast
Concrete Box Culverts
12' x 6''

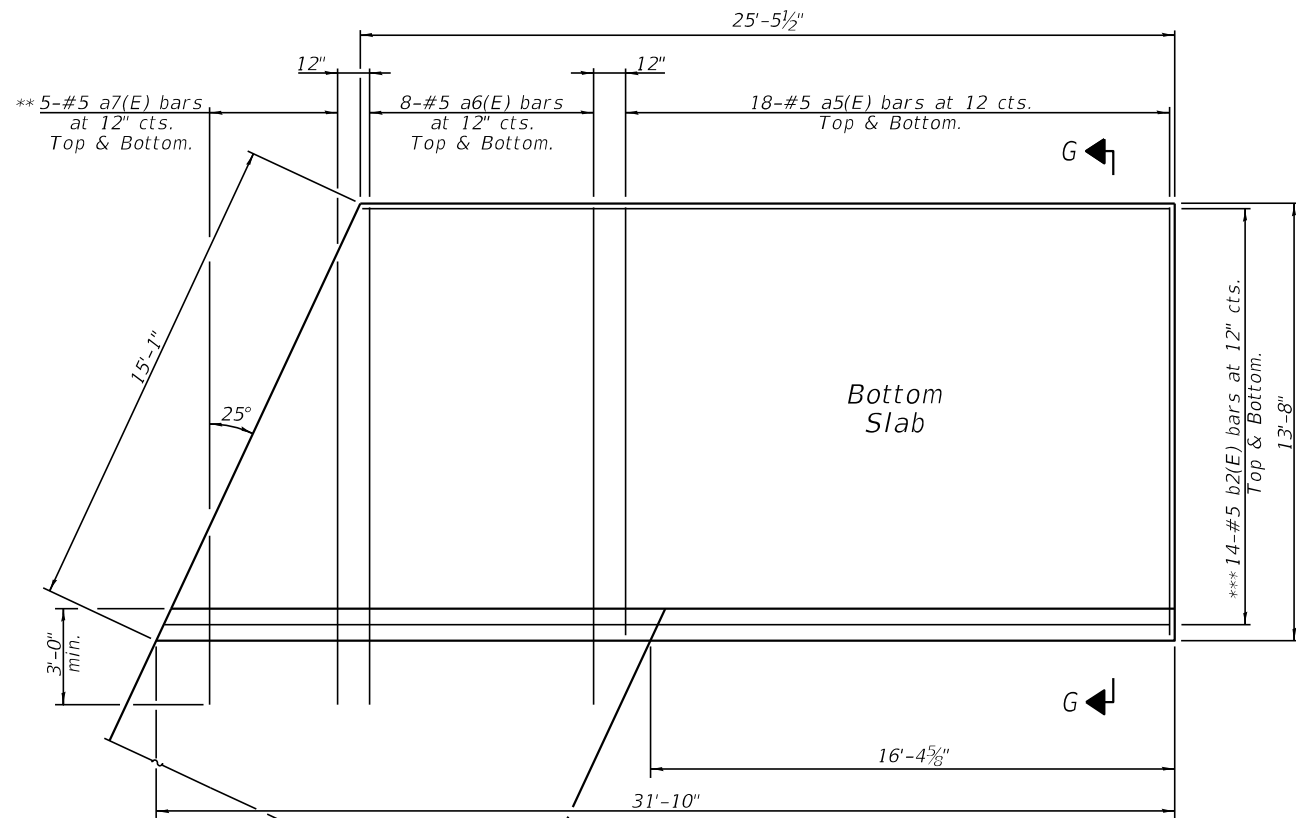


**PRECAST TO CAST-IN-PLACE BOX CULVERT
CONNECTION COLLAR DETAILS**

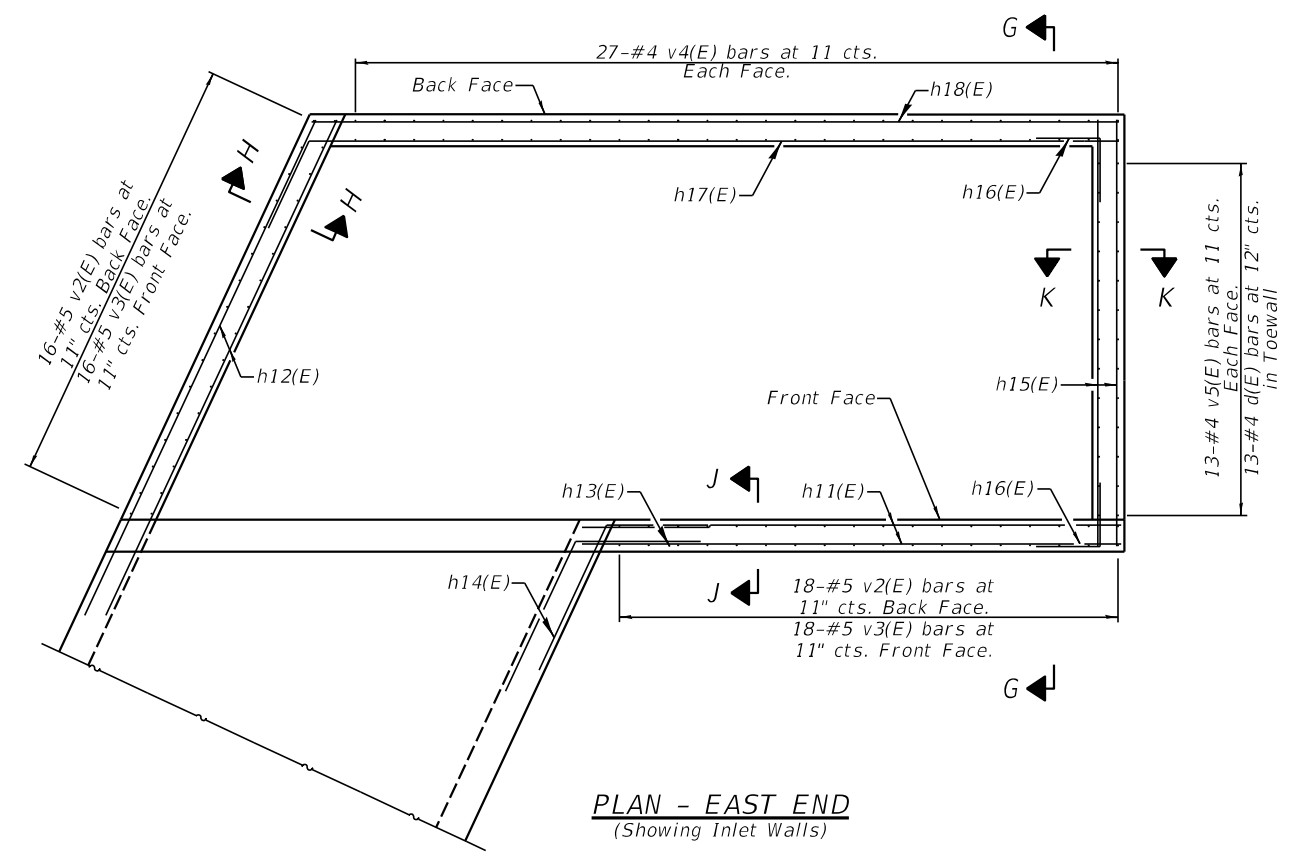
USER NAME =	DESIGNED - KES	REVISED -
PLOT SCALE =	CHECKED - TRC	REVISED -
PLOT DATE =	DRAWN - JRP	REVISED -
	CHECKED - TRC	REVISED -

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
778	3CR-14CR-1	HARDIN	51	26
CONTRACT NO. 78844				

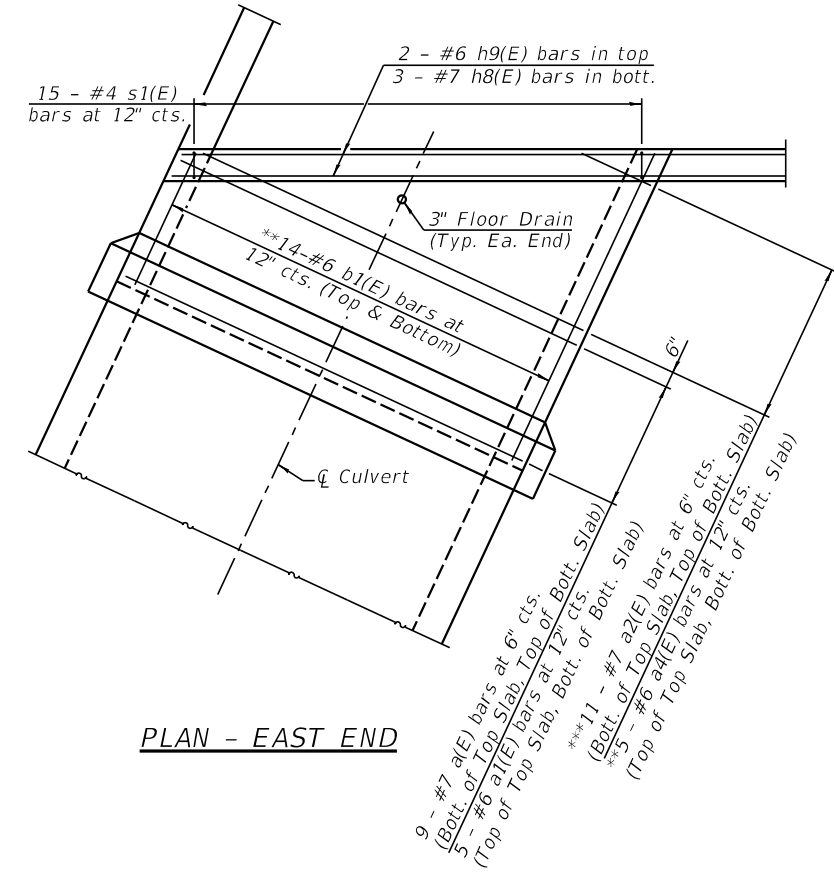
ILLINOIS FED. AID PROJECT



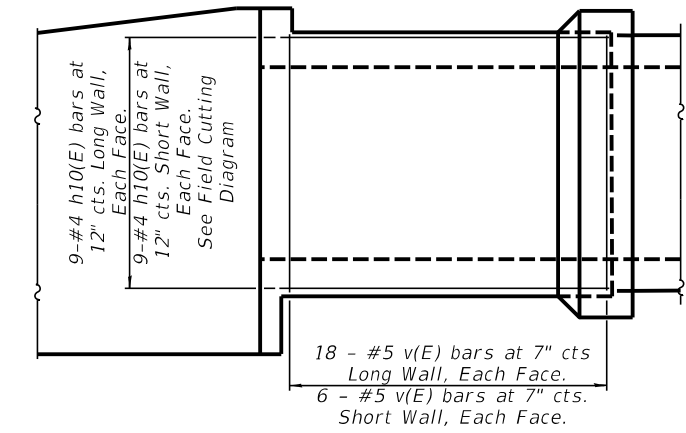
PLAN - EAST END
(Showing Bottom Slab of Inlet)



PLAN - EAST END
(Showing Inlet Walls)



PLAN - EAST END



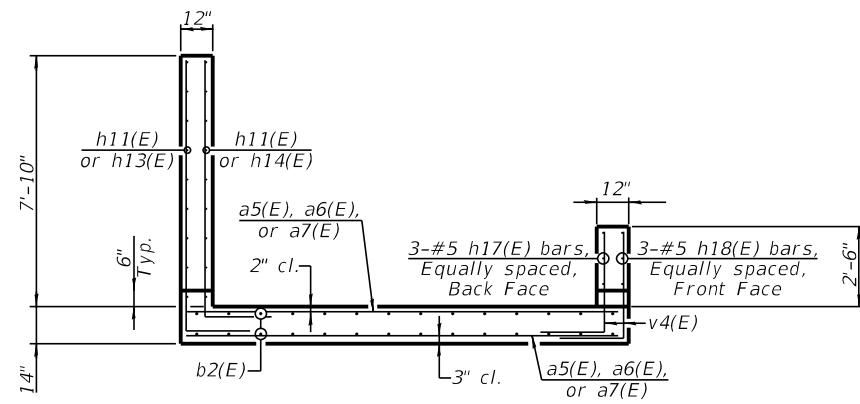
HALF LONGITUDINAL SECTION
(Showing Wall Reinforcement)

** Use remainder of bar in opposite face.
*** Cut to fit.

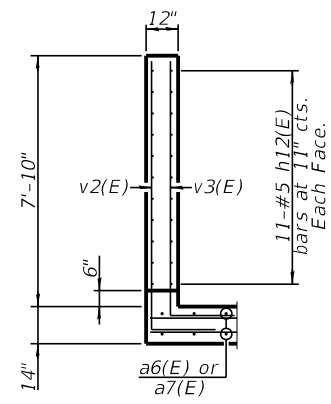
See Sheet 7 of 8 for Sections and Bill of Material

USER NAME =	DESIGNED - KES	REVISED -
PLOT SCALE =	CHECKED - TRC	REVISED -
PLOT DATE =	DRAWN - JRP	REVISED -
	CHECKED - TRC	REVISED -

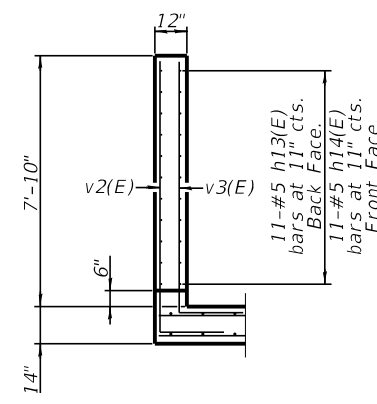
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
778	3CR-1;4CR-1	HARDIN	51	27
CONTRACT NO. 78844				
ILLINOIS FED. AID PROJECT				



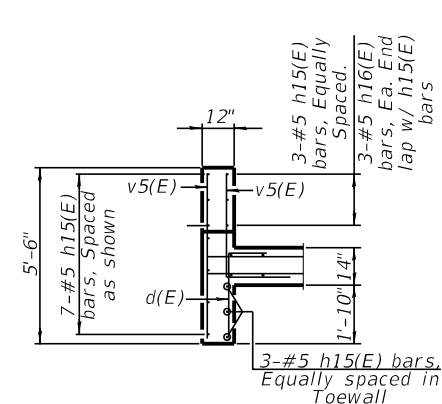
SECTION G-G



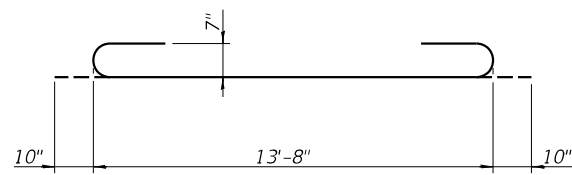
SECTION H-H



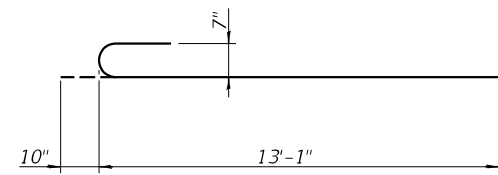
SECTION J-J



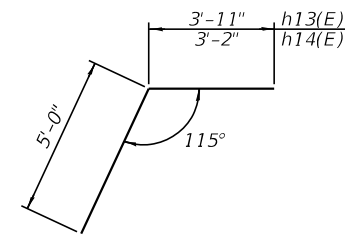
SECTION K-K



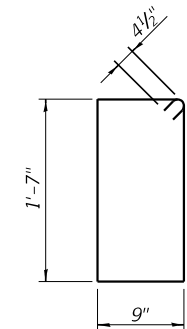
BAR a(E)



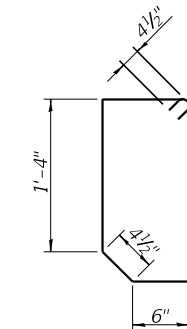
BAR a2(E)



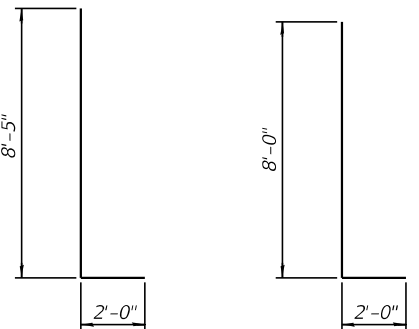
h13(E) or h14(E) BARS



s(E) BAR

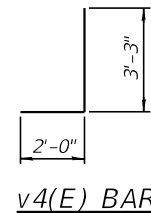


s1(E) BAR

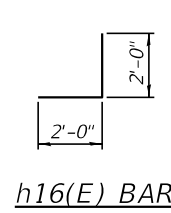


v2(E) BAR

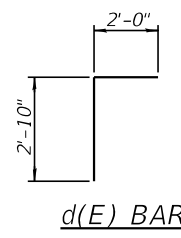
v3(E) BAR



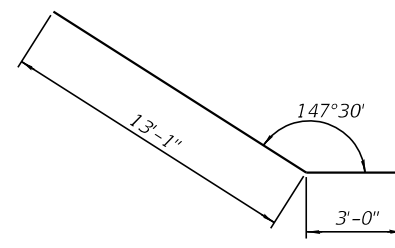
v4(E) BAR



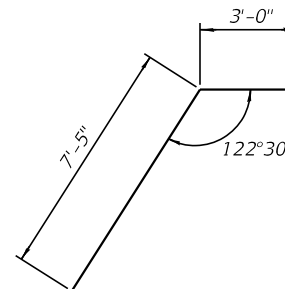
h16(E) BAR



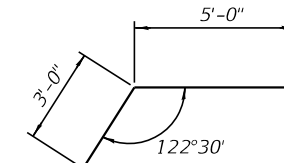
d(E) BAR



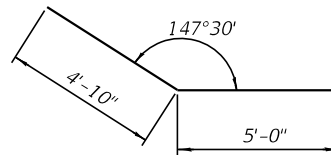
h1(E) BAR



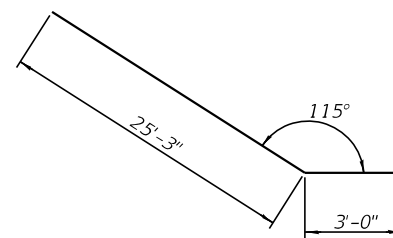
h4(E) BAR



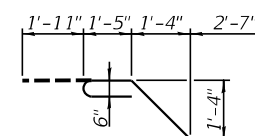
h5(E) BAR



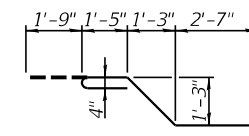
h2(E) BAR



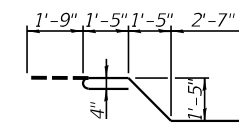
h17(E) BAR



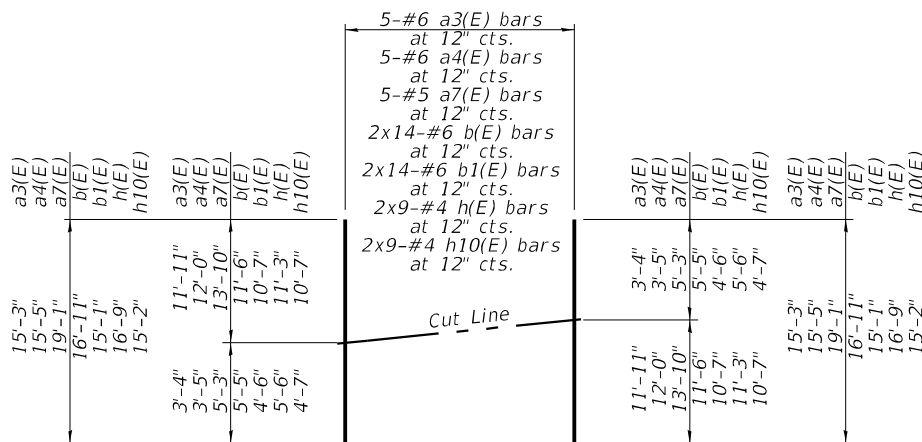
x1(E) BAR



x2(E) BAR



x3(E) BAR

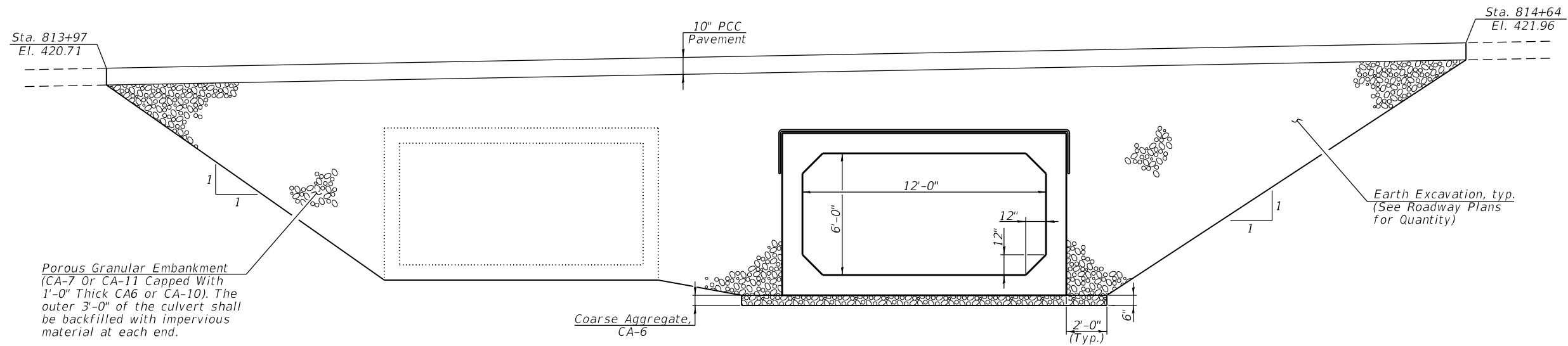


FIELD CUTTING DIAGRAM

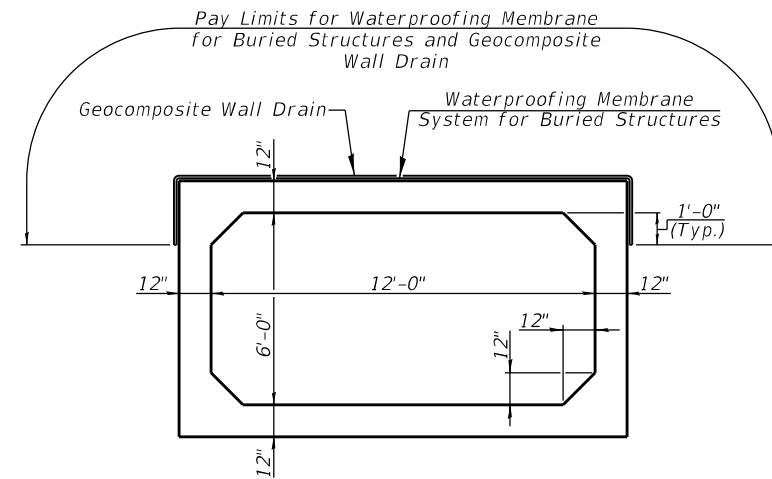
Order a3(E), a4(E), a7(E), b(E), b1(E), h(E), and h10(E) bars full length. Cut as shown and use remainder of bars as detailed in plans.

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a(E)	40	#7	15'-4"	U
a1(E)	22	#6	13'-8"	—
a2(E)	44	#7	13'-11"	U
a3(E)	5	#6	15'-3"	—
a4(E)	5	#6	15'-5"	—
a5(E)	36	#5	13'-4"	—
a6(E)	16	#5	15'-7"	—
a7(E)	5	#5	19'-1"	—
b(E)	28	#6	16'-11"	—
b1(E)	28	#6	15'-1"	—
b2(E)	28	#5	31'-5"	—
d(E)	27	#4	4'-10"	L
h(E)	18	#4	16'-9"	—
h1(E)	20	#7	16'-1"	—
h2(E)	12	#7	9'-10"	—
h3(E)	2	#7	12'-0"	—
h4(E)	16	#7	10'-5"	—
h5(E)	10	#7	8'-0"	—
h6(E)	2	#7	7'-4"	—
h7(E)	2	#6	13'-8"	—
h8(E)	6	#7	13'-8"	—
h9(E)	2	#6	31'-0"	—
h10(E)	18	#4	15'-2"	—
h11(E)	22	#5	15'-10"	—
h12(E)	22	#5	17'-1"	—
h13(E)	11	#5	8'-11"	—
h14(E)	11	#5	8'-2"	—
h15(E)	13	#5	13'-3"	—
h16(E)	6	#5	4'-0"	—
h17(E)	3	#5	28'-3"	—
h18(E)	3	#5	25'-1"	—
s(E)	14	#4	5'-5"	□
s1(E)	15	#4	5'-4"	□
v(E)	106	#5	7'-10"	—
v1(E)	8	#4	10'-6"	—
v2(E)	34	#5	10'-5"	—
v3(E)	34	#5	10'-0"	—
v4(E)	54	#4	5'-3"	—
v5(E)	13	#4	5'-2"	—
v6(E)	12	#4	9'-4"	—
x(E)	12	#4	15'-0"	—
x1(E)	36	#4	7'-9"	—
x2(E)	30	#4	7'-4"	—
x3(E)	30	#4	7'-9"	—
Concrete Box Culverts	Cu. Yd.		69.3	
Reinforcement Bars, Epoxy Coated	Pound		12,560	



SECTION THRU CULVERT



SECTION THRU CULVERT

NOTES

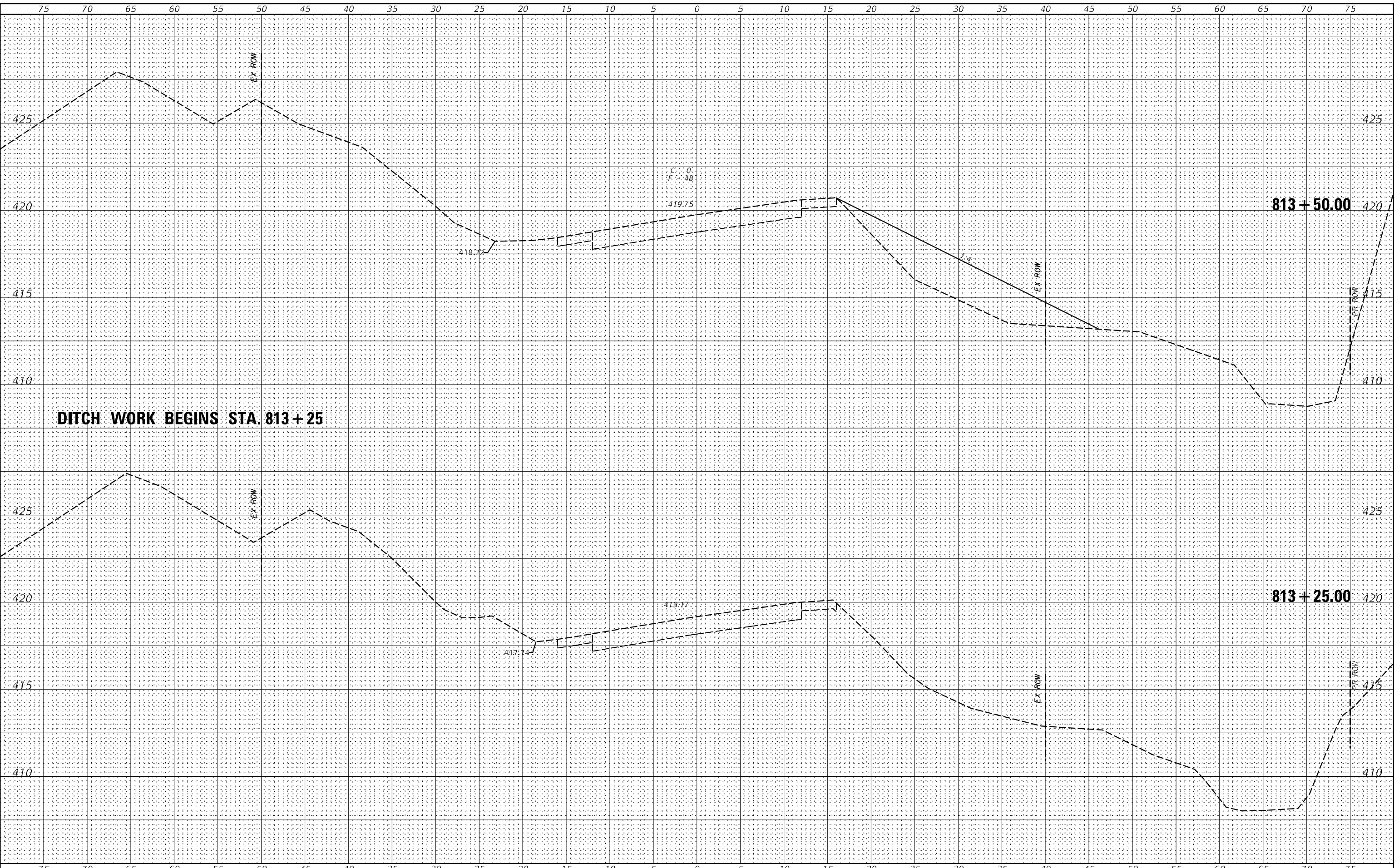
The limits and quantities of removal and replacement shown are an estimate since no boring data was available. Minimum depth shown may be increased by the District Geotechnical and Field Engineers for variable subsurface conditions encountered in the field.

USER NAME =	DESIGNED - KES	REVISED -
	CHECKED - TRC	REVISED -
PLOT SCALE =	DRAWN - JRP	REVISED -
PLOT DATE =	CHECKED - TRC	REVISED -

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
778	3CR-1;4CR-1	HARDIN	51	29
CONTRACT NO. 78844				
ILLINOIS FED. AID PROJECT				

FINAL SURVEY NO.	SURVEYED BY	DATE

ORIGINAL SURVEY NO.	SURVEYED BY	DATE



VK VEENSTRA & KIMM INC.
 Springfield, IL Phone: (217)544-8033
 IL Design Firm No. 184-001939

USER NAME = *USER*	DESIGNED -	REVISIED -
	DRAWN -	REVISIED -
PLOT SCALE = *SCALE*	CHECKED -	REVISIED -
PLOT DATE = *DATE*	DATE -	REVISIED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

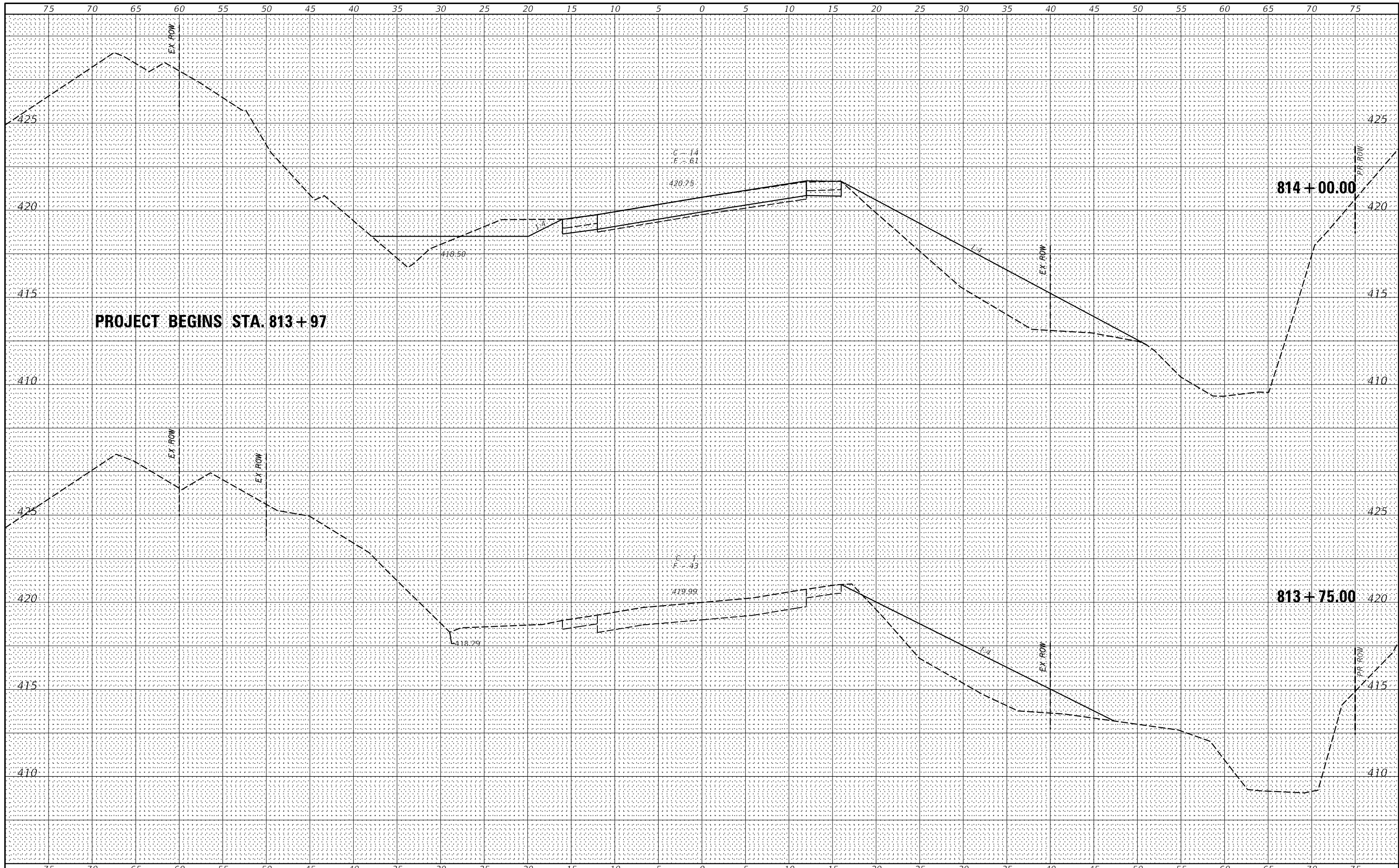
CROSS SECTIONS

SCALE: _____ SHEET NO. 1 OF 6 SHEETS STA. 813+25.00 TO STA. 813+50.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
778	3CR-1;4CR-1	HARDIN	51	30
CONTRACT NO. 78844				
FED. ROAD DIST. NO. _____ ILLINOIS FED. AID PROJECT				

BY: _____ DATE: _____
 SURVEYED _____
 PLOTTED _____
 TEMPLATE _____
 AREAS CHECKED _____

BY: _____ DATE: _____
 SURVEYED _____
 PLOTTED _____
 TEMPLATE _____
 AREAS CHECKED _____



VK VEENSTRA & KIMM INC.
 Springfield, IL. Phone: (217)544-8033
 IL. Design Firm No. 184-001939

USER NAME = *USER*	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = *SCALE*	CHECKED -	REVISED -
PLOT DATE = *DATE*	DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

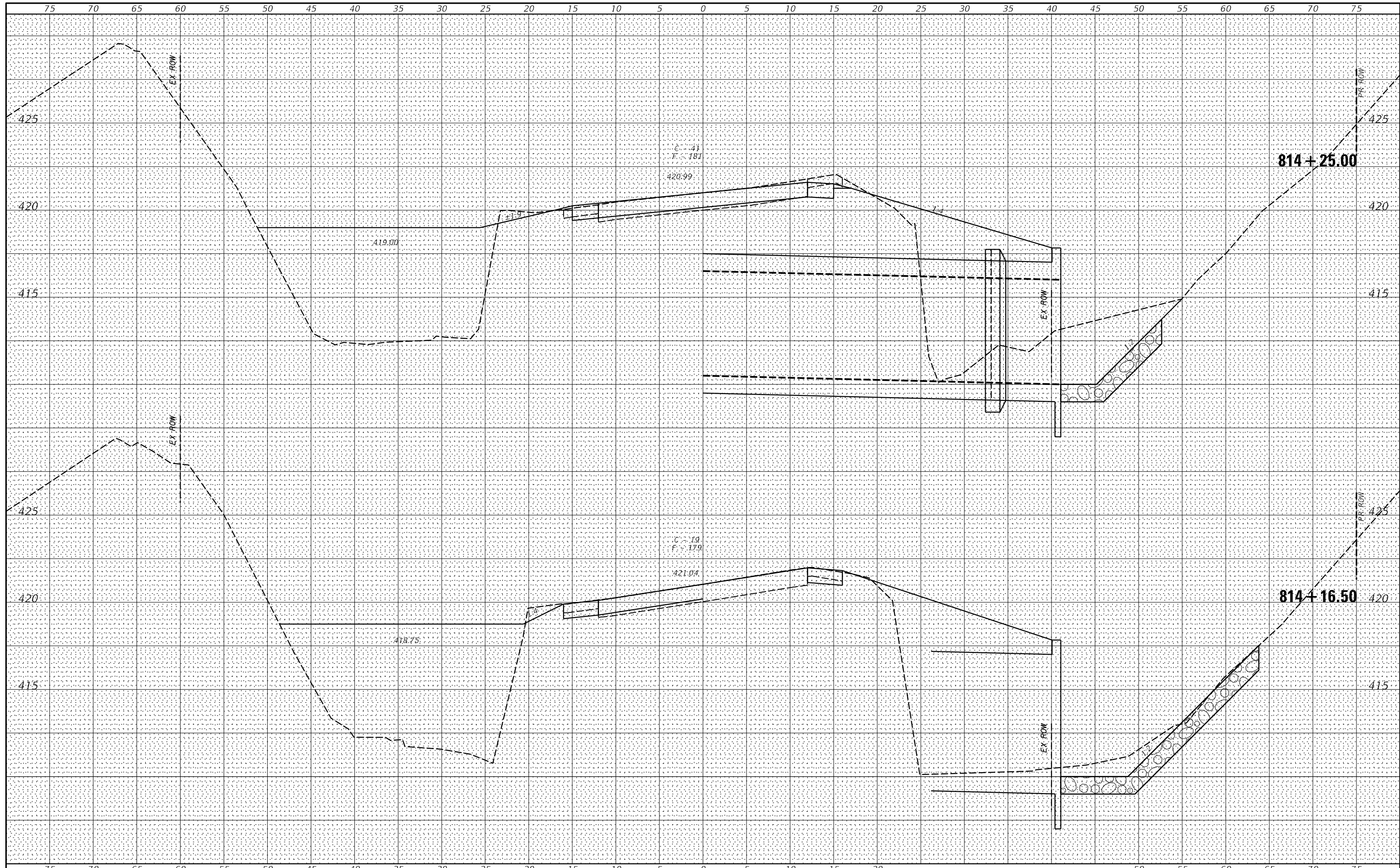
CROSS SECTIONS

SCALE: _____ SHEET NO. 2 OF 6 SHEETS STA. 813+75.00 TO STA. 814+00.00

F.A.P. RTE. 778	SECTION 3CR-1;4CR-1	COUNTY HARDIN	TOTAL SHEETS 51	SHEET NO. 31
CONTRACT NO. 78844				
FED. ROAD DIST. NO. _____ ILLINOIS FED. AID PROJECT				

BY	DATE
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS CHECKED	
AREAS CHECKED	
NO.	

BY	DATE
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS CHECKED	
AREAS CHECKED	
NO.	



VK VEENSTRA & KIMM INC.
 Springfield, IL. Phone: (217)544-8033
 IL. Design Firm No. 184-001939

USER NAME = *USER*	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = *SCALE*	CHECKED -	REVISED -
PLOT DATE = *DATE*	DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

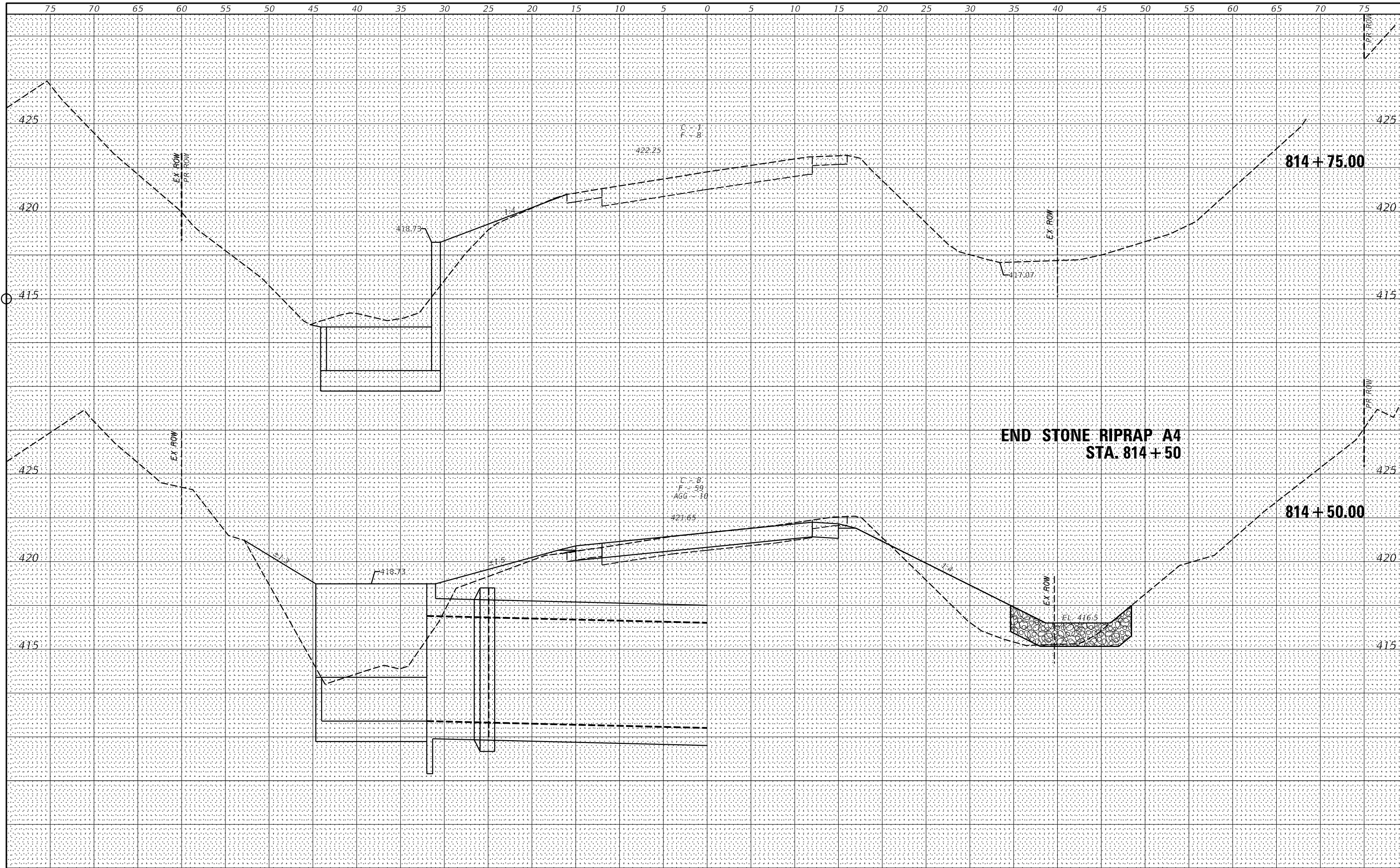
CROSS SECTIONS

SCALE: _____ SHEET NO. 3 OF 6 SHEETS STA. _____ TO STA. 814+25.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
778	3CR-1;4CR-1	HARDIN	51	32
FED. ROAD DIST. NO. _____ ILLINOIS FED. AID PROJECT				
CONTRACT NO. 78844				

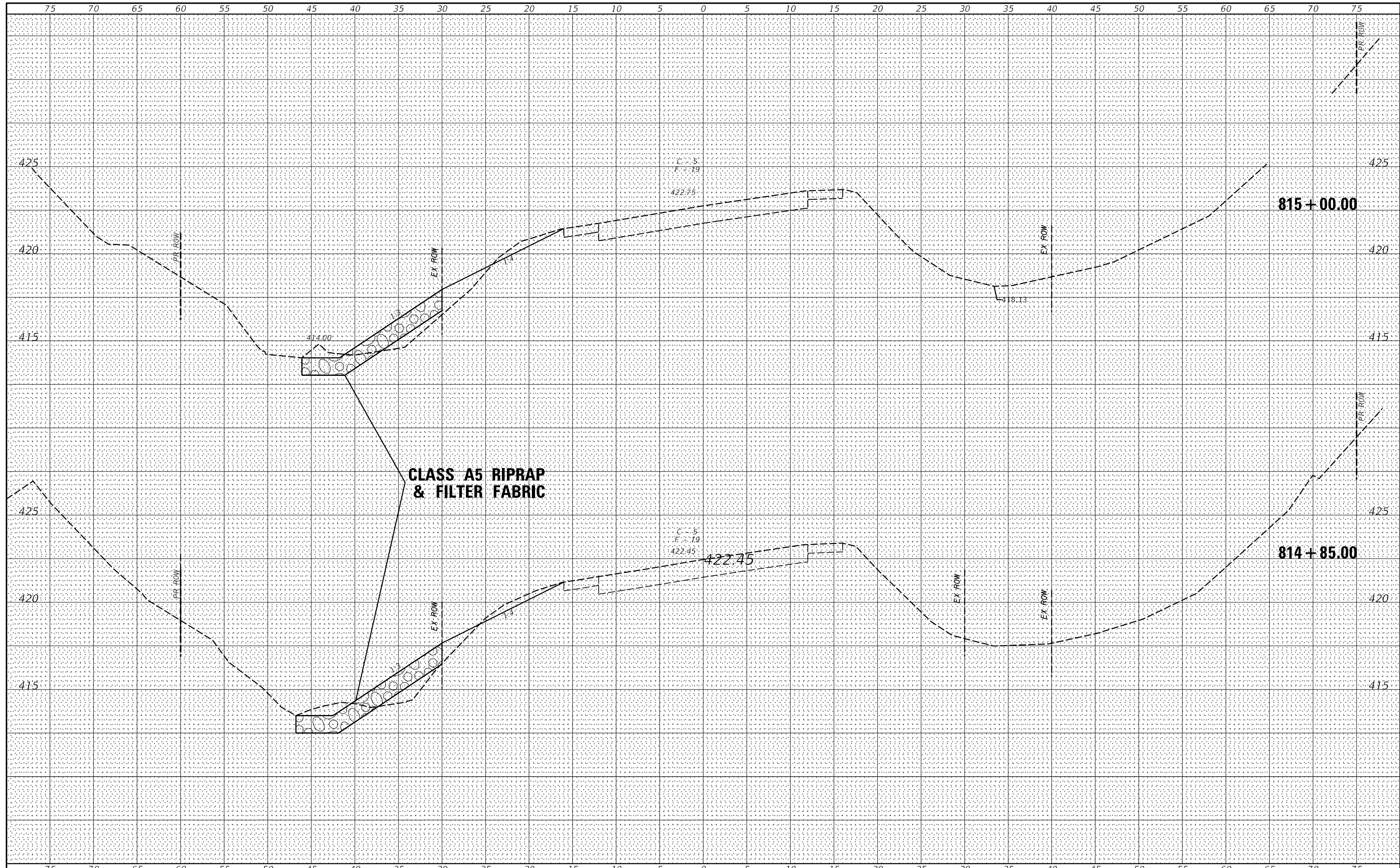
BY: _____ DATE: _____
 SURVEYED _____
 PLOTTED _____
 TEMPLATE _____
 AREAS CHECKED _____
 ORIGINAL SURVEY NO. _____

BY: _____ DATE: _____
 SURVEYED _____
 PLOTTED _____
 TEMPLATE _____
 AREAS CHECKED _____
 ORIGINAL SURVEY NO. _____



BY	DATE
FINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	TEMPLATE
	AREAS
	CHECKED

BY	DATE
ORIGINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	TEMPLATE
	AREAS
	CHECKED



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 IL Design Firm No. 184-001939

USER NAME : *USER*	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE : *SCALE*	CHECKED -	REVISED -
PLOT DATE : *DATE*	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

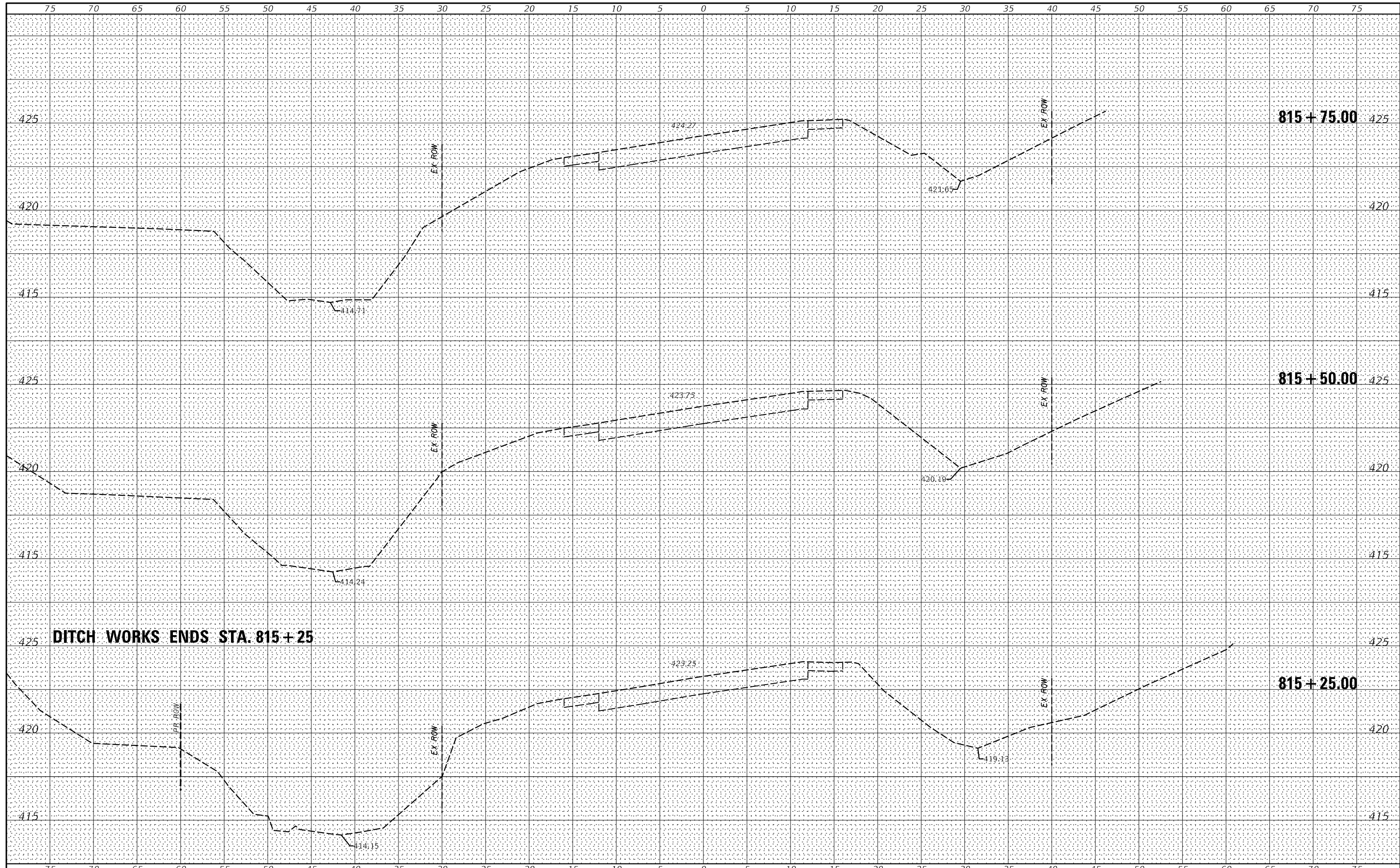
CROSS SECTIONS

SCALE: _____ SHEET NO. 5 OF 6 SHEETS STA. 814+85.00 TO STA. 815+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
778	3CR-14CR-1	HARDIN	51	34
CONTRACT NO. 78844				
FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT				

BY	DATE
FINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	TEMPLATE
	AREAS CHECKED
	AREAS CHECKED

BY	DATE
ORIGINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	TEMPLATE
	AREAS CHECKED
	AREAS CHECKED



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IL. Design Firm No. 184-001939

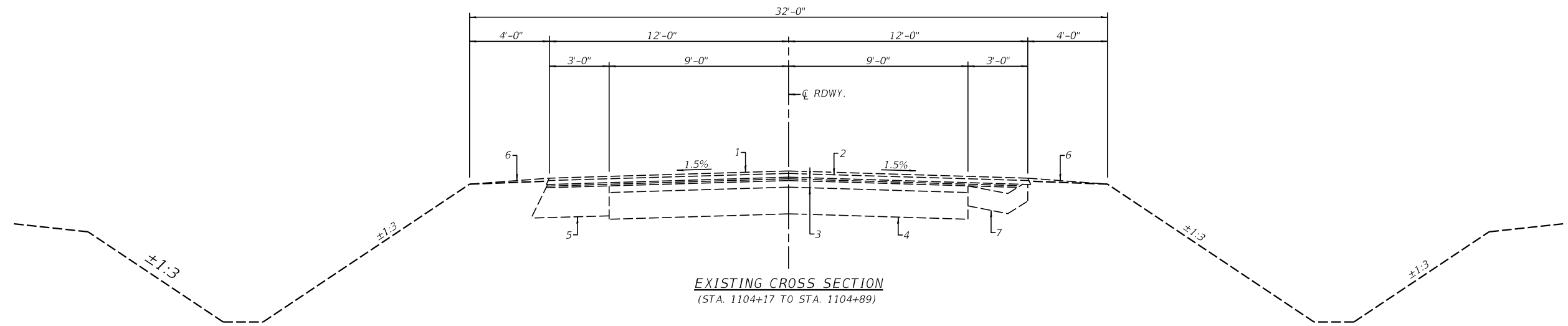
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	DRAWN -	REVISED -
PLOT SCALE = *SCALE*	CHECKED -	REVISED -
PLOT DATE = *DATE*	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

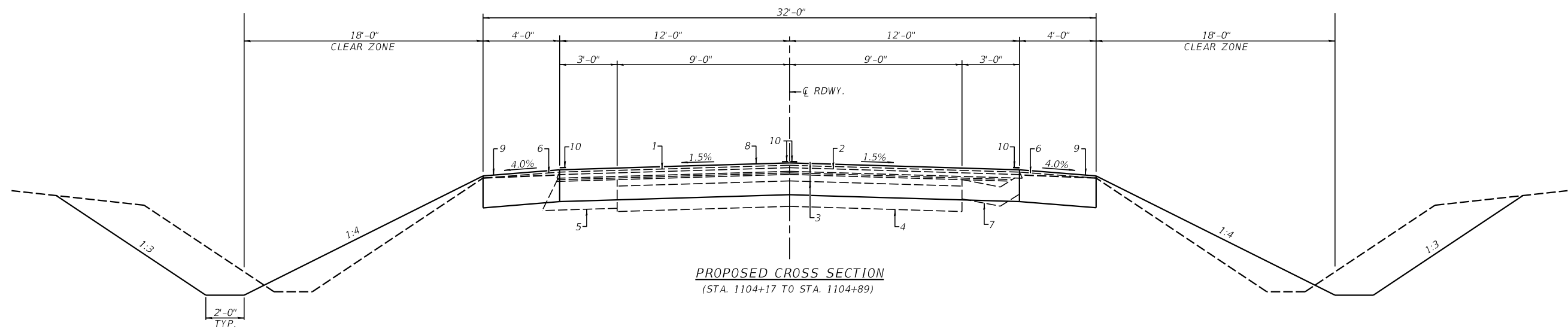
CROSS SECTIONS		
SCALE: _____	SHEET NO. 6 OF 6 SHEETS	STA. 815+25.00 TO STA. 815+75.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
778	3CR-14CR-1	HARDIN	51	35
CONTRACT NO. 78844				

FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT



EXISTING CROSS SECTION
(STA. 1104+17 TO STA. 1104+89)



PROPOSED CROSS SECTION
(STA. 1104+17 TO STA. 1104+89)

PAVEMENT LEGEND

- 1 - EX HMA SURFACE
- 2 - EX HMA BINDER
- 3 - EX HMA OVERLAYS
- 4 - EX AGG. BASE
- 5 - EX HMA WIDENING
- 6 - EX AGG WEDGE
- 7 - EX CONC GUTTER
- 8 - PR PCC PAVEMENT 10"
- 9 - PR PCC SHOULDER 10"
- 10 - PR PAINT PAVEMENT - MARKING LINE 4"

MODEL: 3/4/06/ELN/MS
FILE NAME: 3/4/06/ELN/MS

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Springfield, IL. Phone: (217)544-8033
IL. Design Firm No. 184-001939

USER NAME = \$USERS	DESIGNED - _____	REVISED - _____
PLOT SCALE = \$SCALE\$	DRAWN - _____	REVISED - _____
PLOT DATE = \$DATE\$	CHECKED - _____	REVISED - _____
	DATE - _____	REVISED - _____

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

TYPICAL ROADWAY SECTIONS

SCALE: 1" = 4' SHEET ___ OF ___ SHEETS STA. _____ TO STA. _____

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
778	3CR-1;4CR-1	HARDIN	51	36
CONTRACT NO. 78844				
ILLINOIS FED. AID PROJECT				

EARTHWORK								
LOCATION	EARTH EXCAVATION CU. YD.	ADJUSTED SHRINKAGE FACTOR %	EARTH EXCAVATION (ADJUSTED) CU. YD.	EMBANKMENT CU. YD.	EARTHWORK BALANCE		FURNISHED EXCAVATION CU. YD.	REMARKS
					EXCAVATION REQUIRED TO COMPLETE CU. YD.	EXCESS EXCAVATION CU. YD.		
STA. 1104+00 TO STA. 1105+05	134	25	101	35	0	66	0	
STA. 1104+35 TO STA. 1104+71 (EXCAVATION FOR PLACEMENT OF STRUCTURE)	322	25	242	0	0	242	0	
TOTAL	456		343	35	0	308	0	

NO FURNISHED EXCAVATION IS REQUIRED. EXCESS EARTH EXCAVATION TO BE REMOVED FROM SITE. COST INCLUDED IN EARTH EXCAVATION.

PERMANENT SEEDING						
LOCATION	SEEDING CLASS 2A	NITROGEN FERTILIZER NUTRIENT	PHOSPHORUS FERTILIZER NUTRIENT	POTASSIUM FERTILIZER NUTRIENT	AGRICULTURAL GROUND LIMESTONE	MULCH METHOD 2
	ACRE	POUND	POUND	POUND	TON	ACRE
STA. 1103+80 TO STA. 1105+00 LT.	0.09	8	8	8	0.18	0.09
STA. 1104+17 TO STA. 1105+25 RT.	0.12	11	11	11	0.24	0.12
TOTAL	0.21	19	19	19	0.42	0.21

FURNISHING AND ERECTING RIGHT OF WAY MARKERS	
LOCATION	FURNISHING AND ERECTING RIGHT OF WAY MARKERS EACH
STA. 1103+70 30' LT. & 55' LT.	2
STA. 1104+00 30' RT. & 60' RT.	2
STA. 1104+90 30' LT. & 55' LT.	2
STA. 1105+25 30' RT. & 60' RT.	2
TOTAL	8

PORTLAND CEMENT CONCRETE			
LOCATION	PORTLAND CEMENT CONCRETE PAVEMENT 10"	PORTLAND CEMENT CONCRETE SHOULDERS 10"	WELDED WIRE FABRIC
	SQ. YD.	SQ. YD.	SQ. YD.
STA. 1104+17 TO STA. 1104+89	192		192
STA. 1104+17 TO STA. 1104+89 LT.			32
STA. 1104+17 TO STA. 1104+89 RT.			32
TOTAL	192	64	192

TREE REMOVAL	
LOCATION	TREE REMOVAL ACRE
STA. 1103+80 37' LT. TO STA. 1104+30 55' LT.	0.02
STA. 1104+00 TO STA. 1105+30 53' TO 60' RT.	0.02
TOTAL	0.04

USE 0.1 ACRE

CHANGEABLE MESSAGE SIGN	
LOCATION	CHANGEABLE MESSAGE SIGN CAL. DAY
	NORTH OF PROJECT LOCATION AT INTERSECTION OF IL 34 AND IL 146
SOUTH OF PROJECT LOCATION AT INTERSECTION OF IL 34 AND IL 145	21
TOTAL	42

PAVEMENT REMOVAL	
LOCATION	PAVEMENT REMOVAL SQ. YD.
STA. 1104+17 TO STA. 1104+89	192
TOTAL	192

PAINT PAVEMENT MARKING SCHEDULE			
LOCATION	PAINT PAVEMENT MARKING - LINE 4"		
	SOLID LINE CENTERLINE (YELLOW)	30' SKIP 10' DASH (YELLOW)	EDGE LINE (WHITE)
	FOOT	FOOT	FOOT
STA. 1104+17 TO STA. 1104+89	72	20	144
SUBTOTAL	72	20	144
TOTAL			236

AGGREGATE DITCH	
LOCATION	AGGREGATE DITCH TON
STA. 1103+80 TO STA. 1104+03 LT.	13
STA. 1104+25 TO STA. 1104+77 RT.	29
STA. 1104+30 TO STA. 1104+80 LT.	28
TOTAL	70

TEMPORARY EROSION CONTROL ITEMS			
LOCATION	TEMPORARY EROSION CONTROL SEEDING	SEEDING, CLASS 7	PERIMETER EROSION BARRIER
	POUND	ACRE	FOOT
STA. 1103+80 TO STA. 1105+25 LT. & RT.	21	0.21	
STA. 1103+70 TO STA. 1104+90 50' LT.			120
STA. 1104+00 TO STA. 1105+25 55' RT.			125
TOTAL	21	0.21	245

MODEL: 3400/ELNAMES
FILE NAME: 3400.S



USER NAME = \$USERS	DESIGNED - _____	REVISED - _____
PLOT SCALE = \$SCALE\$	DRAWN - _____	REVISED - _____
PLOT DATE = \$DATES\$	CHECKED - _____	REVISED - _____
	DATE - _____	REVISED - _____

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

QUANTITY SCHEDULES

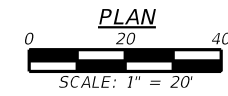
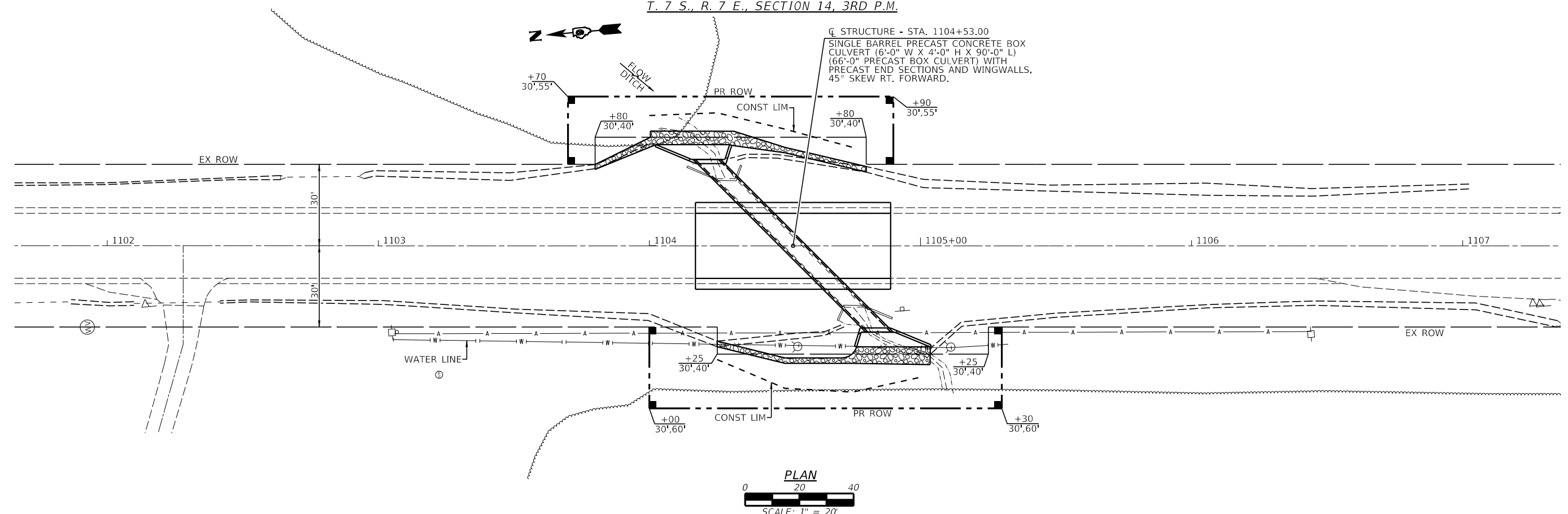
SCALE: 1" = 4' SHEET 1 OF 1 SHEETS STA. _____ TO STA. _____

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
778	3CR-1;4CR-1	HARDIN	50	37
			CONTRACT NO. 78844	
ILLINOIS FED. AID PROJECT				

T. 7 S., R. 7 E., SECTION 14, 3RD P.M.

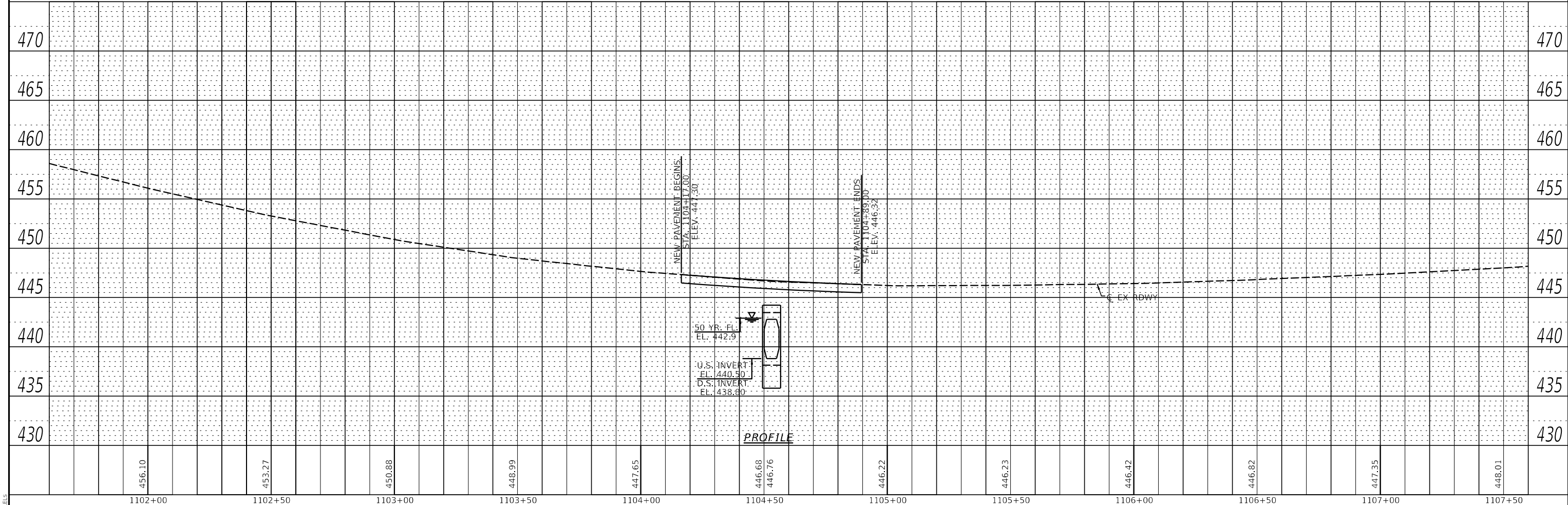


Q STRUCTURE - STA. 1104+53.00
 SINGLE BARREL PRECAST CONCRETE BOX
 CULVERT (6'-0" W X 4'-0" H X 90'-0" L)
 (66'-0" PRECAST BOX CULVERT) WITH
 PRECAST END SECTIONS AND WINGWALLS.
 45° SKEW RT. FORWARD.



PLAN	SURVEYED	DATE
	PLOTTED	
	GRADES CHECKED	
	STRUCTURE NOTARIS CPWD	
	NOTE BOOK NO.	

PROFILE	SURVEYED	DATE
	PLOTTED	
	GRADES CHECKED	
	STRUCTURE NOTARIS CPWD	
	NOTE BOOK NO.	



MODEL: SPODELMAMES
 FILE NAME: SFILES

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 IL. Design Firm No. 184-001939

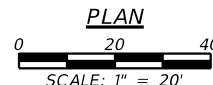
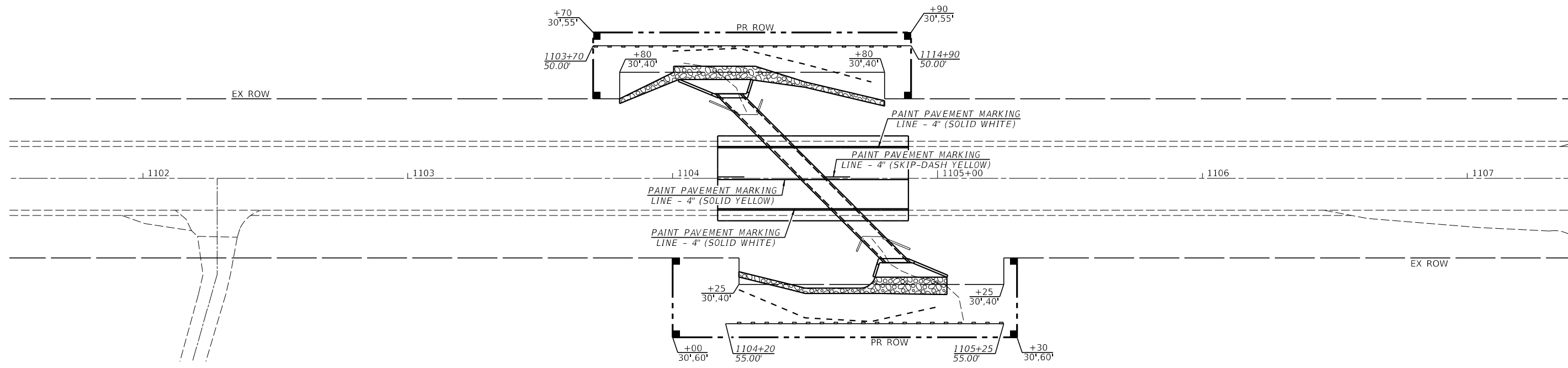
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PLOT DATE = \$DATE\$	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

PLAN & PROFILE

SCALE: 1" = 20' SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
778	3CR-1;4CR-1	HARDIN	51	38
CONTRACT NO. 78844				
ILLINOIS FED. AID PROJECT				



EROSION CONTROL LEGEND

— — — — — PERIMETER EROSION BARRIER

MODEL: 3400BELNAMES
FILE NAME: ST015

VK VEENSTRA & KIMM INC.
Springfield, IL. Phone: (217)544-8033
IL. Design Firm No. 184-001939

USER NAME = \$USERS	DESIGNED - _____	REVISED - _____
DRAWN - _____	REVISOR - _____	REVISOR - _____
PLOT SCALE = \$SCALE\$	CHECKED - _____	REVISOR - _____
PLOT DATE = \$DATE\$	DATE - _____	REVISOR - _____

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PAVEMENT MARKING PLAN / EROSION CONTROL PLAN
SN 035-7033**

SCALE: 1" = 20' SHEET 1 OF 1 SHEETS STA. _____ TO STA. _____

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
778	3CR-1;4CR-1	HARDIN	51	39
CONTRACT NO. 78844				
ILLINOIS FED. AID PROJECT				

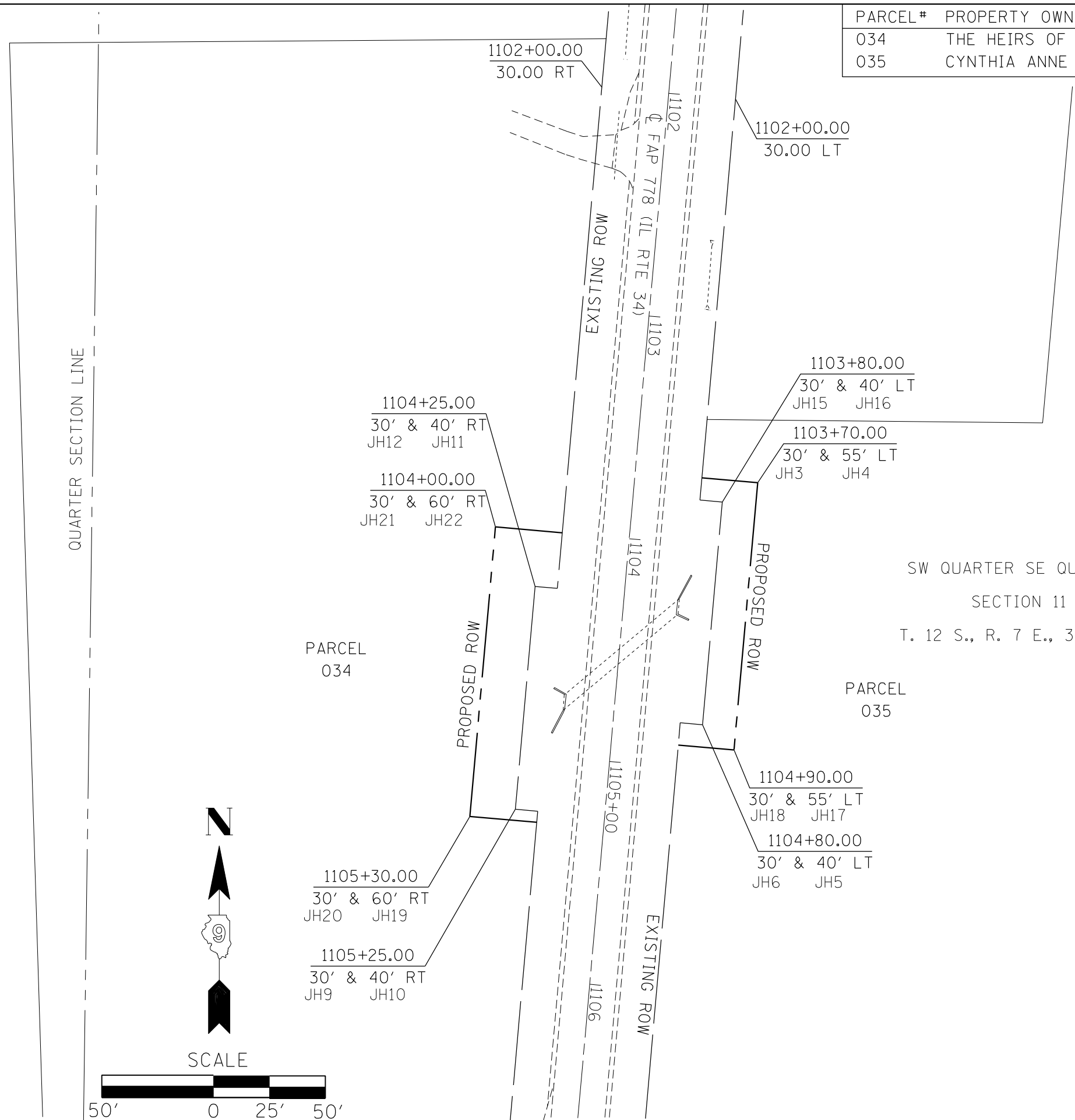
PARCEL#	PROPERTY OWNER	PURPOSE	ACREAGE
034	THE HEIRS OF HANSEL A. COOK, DECEASED	R.O.W.	0.067 ACRES±
035	CYNTHIA ANNE & JOHN HERBERT HENDERSON	R.O.W.	0.046 ACRES±

ALIGNMENT INFO
FAP 778 (IL RTE 34)

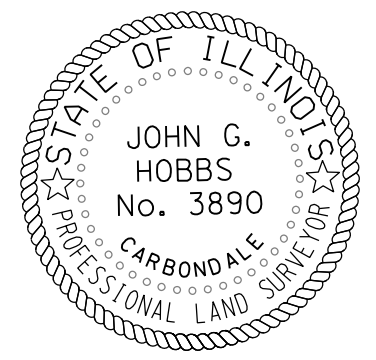
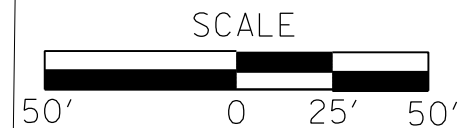
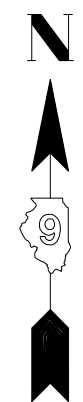
POINT#	STATION	NORTHING	EASTING
JH1	1102+00.00	297351.84	963689.80
JH2	1108+00.00	297754.18	963636.88

COORDINATE DATA

PT#	NORTHING	EASTING
JH3	297169.90	963703.81
JH4	297169.02	963713.77
JH5	297069.41	963704.95
JH6	297070.29	963694.99
JH9	297030.76	963631.25
JH10	297031.64	963621.29
JH11	297131.25	963630.11
JH12	297130.37	963640.07
JH15	297179.86	963704.69
JH16	297177.66	963729.59
JH17	297058.12	963719.01
JH18	297060.33	963694.10
JH19	297028.42	963600.93
JH20	297025.78	963630.81
JH21	297155.27	963642.27
JH22	297157.92	963612.39



SW QUARTER SE QUARTER
SECTION 11
T. 12 S., R. 7 E., 3RD P.M.



JOHN G. HOBBS
ILLINOIS PROFESSIONAL LAND SURVEYOR

Current license expires 11/2024.

This professional service conforms to the current Illinois minimum standards for a boundary survey.

MODEL: D:\n\... FILE: NAME: ...

USER NAME = Ehren,Kirby	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 50.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 8/5/2024	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

RIGHT OF WAY SHEET
ILLINOIS RTE 34 - SN035-7017

SCALE: 1" = 50' SHEET 1 OF 1 SHEETS STA. 1102+00 TO STA. 1106+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
778	3CR-1	HARDIN	51	40
SEC 11 - T.12S. - R.7E.		CONTRACT NO. 78844		
R-99-005-21	ILLINOIS FED. AID PROJECT			

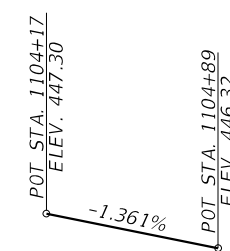
Bench Mark: Chiseled "□" in center of east headwall of S.N. 035-7017 - El. 445.789

Existing Structure: Structure number 035-7017, built in 1924 under S.B.I. Route 34, Section 4A at Station 1104+50. The existing structure is a single barrel cast-in-place reinforced concrete box culvert, 5'-0" W x 4'-0" H x 44'-3 3/4" L. In 1984 the culvert was extended 12'-8" on the upstream side and 10'-8" on the downstream side. The structure is located on a horizontal tangent alignment and within a sag vertical curve. The structure will be replaced utilizing a short-term road closure.

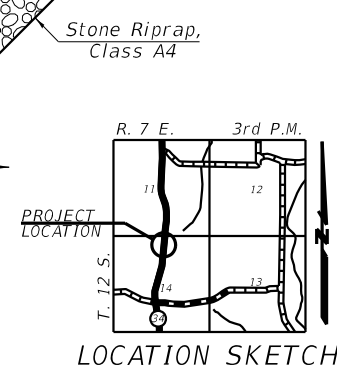
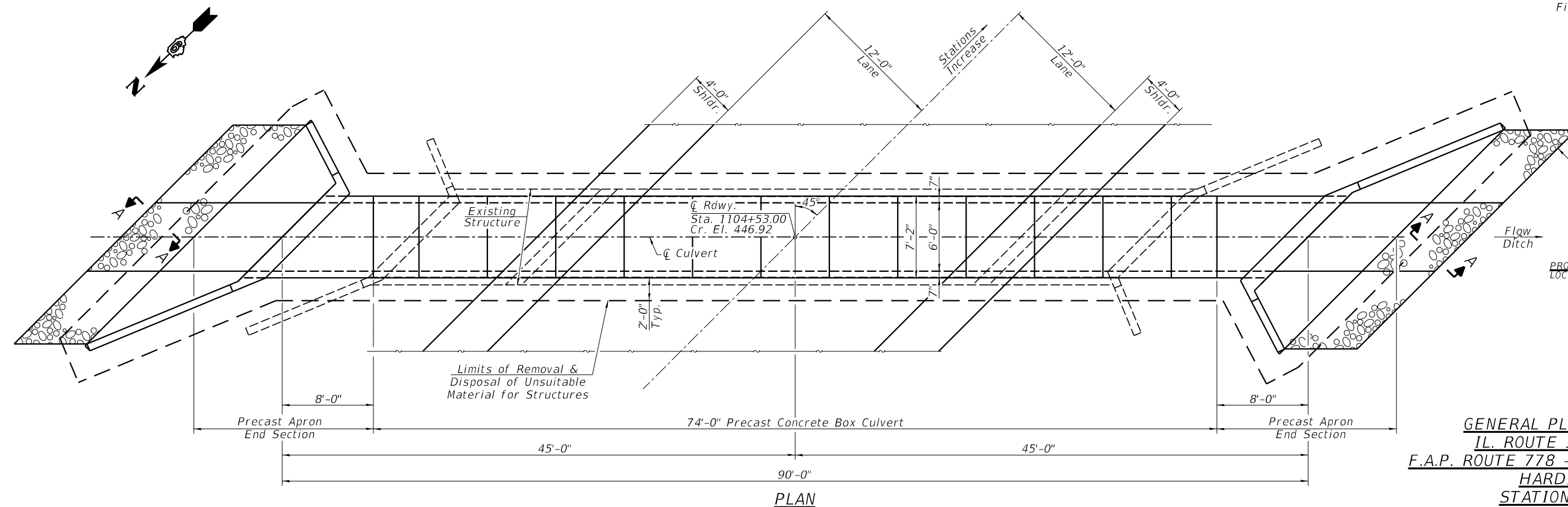
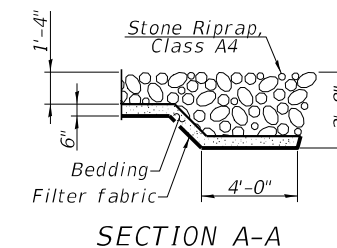
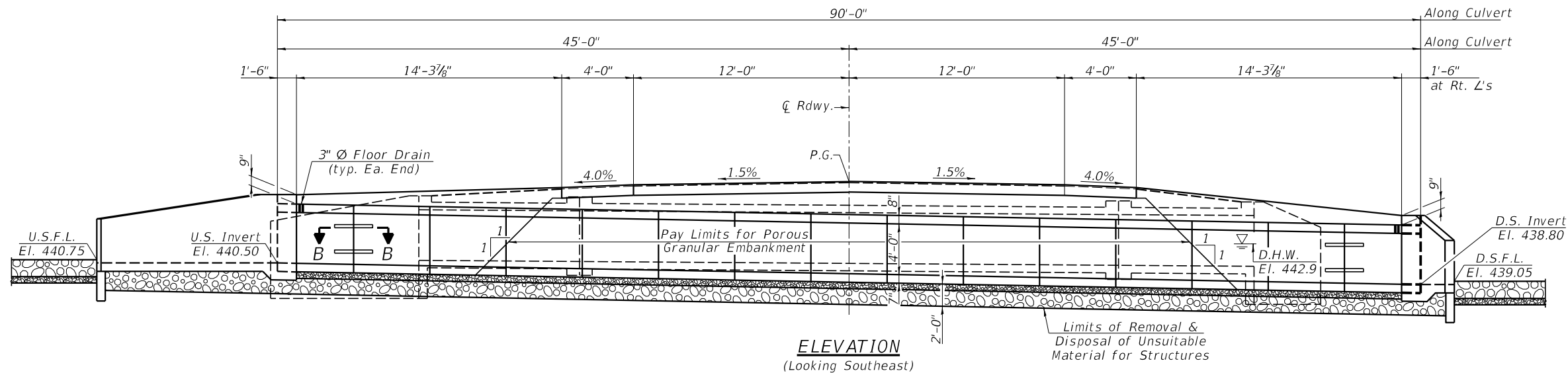
No salvage.

INDEX OF SHEETS

- 1 - General Plan & Elevation
- 2 - General Data
- 3 - Precast Concrete Box Culvert Section
- 4-5 - Apron End Section Details



PROFILE GRADE
(Along \bar{C} IL Rte. 34)



GENERAL PLAN & ELEVATION
IL. ROUTE 34 OVER DITCH
F.A.P. ROUTE 778 - SECTION 3CR-1;4CR-1
HARDIN COUNTY
STATION 1104+53.00

VEENSTRA & KIMM INC.
Springfield, IL. Phone: (217)544-8033
IL. Design Firm No. 184-001939

USER NAME =	DESIGNED -	REVISED -
PLOT SCALE =	CHECKED -	REVISED -
PLOT DATE =	DRAWN -	REVISED -
	CHECKED -	REVISED -

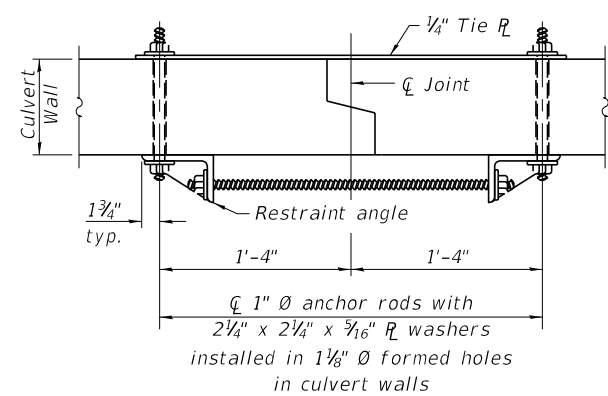
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL PLAN AND ELEVATION
STRUCTURE NO. 035-7033

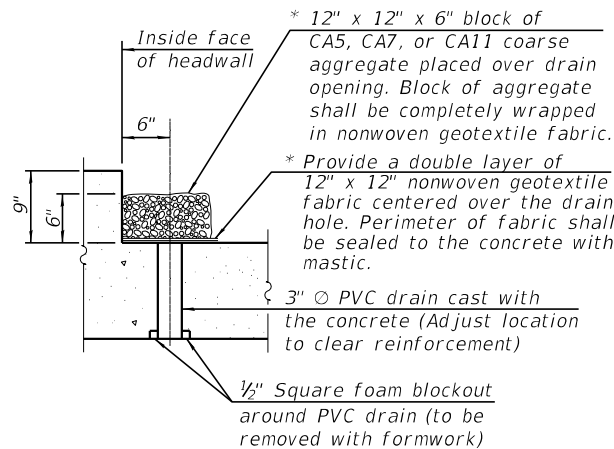
SHEET NO. 1 OF 5 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
778	3CR-1;4CR-1	HARDIN	51	41
CONTRACT NO. 78844				

ILLINOIS FED. AID PROJECT



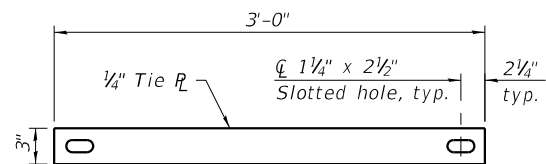
SECTION B-B
(Showing end section tie details)



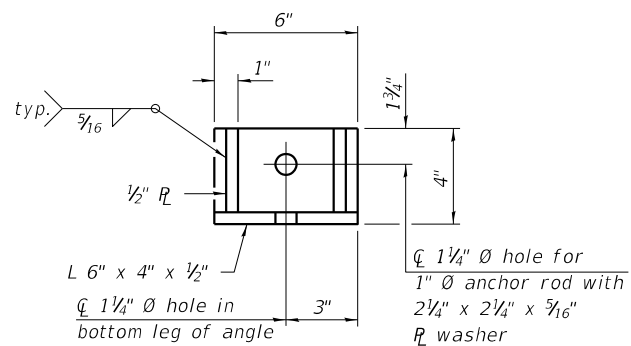
DRAIN DETAIL

(All costs associated with furnishing and constructing the above drain detail will not be measured for payment but shall be included in the contract unit price for the associated work.)

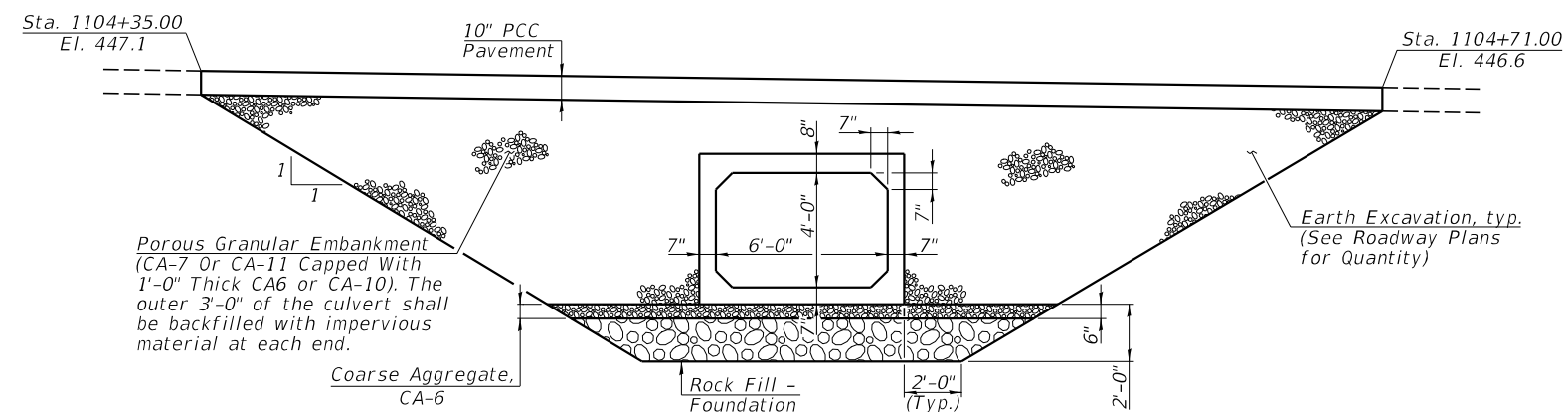
* Nonwoven geotextile fabric shall conform to the requirements of Article 1080.01 of the Standard Specifications. The minimum weight of the fabric shall be 6 ounces per square yard.



TIE PLATE DETAIL



RESTRAINT ANGLE DETAIL



SECTION THRU CULVERT

GENERAL NOTES

Reinforcement bars designated (E) shall be epoxy coated.
Box Culvert End Sections shall be constructed according to the requirements of Section 540 of the Standard Specifications except as modified herein. This work will be measured for payment as each, with each end being one each. End sections will be paid for at the contract unit price per each for Box Culvert End Sections of the culvert number specified.

Typical box section dimensions, materials, and reinforcement details for Box Culvert End Sections shall be according to the requirements of 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.

Number of segments shown in Elevation is for example only. Length and number of precast box sections required to construct Precast Concrete Box Culvert shall be determined by the Contractor.

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 the 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 10 ft.

1 inch diameter anchor rods for the culvert ties shall conform to the requirements of ASTM F1554, Grade 105. Structural steel for 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 1/4 inch by 2 1/4 inch by 5/16 inch 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 1/2 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.

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 contract unit price for Box Culvert End Sections of the culvert number specified.

Layout of the slope protection system may be varied to suit ground conditions in the field as directed by the Engineer.

Drain holes shall be provided on exterior culvert walls for each precast box segment with a clear rise greater than 3 ft. The drain hole shall be located within 1/2 of the clear rise of the box culvert, shall not intercept the haunch, and shall conform to the requirements of Article 503.11 of the Standard Specifications.

The 6 in. thick layer of porous granular material required for the precast concrete box culvert per Article 540.06 of the Standard Specifications shall also apply to the end sections. Cost of the porous granular material will not be paid for separately but shall be included in the unit price of the work for which it is required.

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 Waterproofing Membrane System for Buried Structures.

TOTAL BILL OF MATERIAL

Item	Unit	Total
Porous Granular Embankment	Cu. Yd.	210
Stone Riprap, Class A4	Sq. Yd.	28
Filter Fabric	Sq. Yd.	28
Removal of Existing Structures No. 2	Each	1
Removal & Disposal of Unsuitable Material for Structures	Cu. Yd.	108
Box Culvert End Sections, Culvert No. 2	Each	2
Precast Concrete Box Culverts 6'x4'	Foot	74
Geocomposite Wall Drain	Sq. Yd.	88
Waterproofing Membrane System for Buried Structures	Sq. Yd.	88
Rock Fill - Foundation	Ton	129

WATERWAY INFORMATION

Flood	Freq. Yr.	Q C.F.S.	Opening Ft ²		Head - Ft.		Headwater El.		
			Exist.	Prop.	Exist.	Prop.	Exist.	Prop.	
Ten-Year	10	117	20	21	442.5	2.2	1.5	444.7	444.0
Base	25	154	20	24	442.9	2.8	1.9	445.7	444.8
Design	50	185	20	24	442.9	3.4	2.6	446.3	445.5
Max. Calc.	100	215	20	24	443.0	3.5	3.2	446.5	446.2

Drainage Area = 0.1 Sq. Mi. Exist. Low Grade Elev. 446.2 at Sta. 1104+53
Prop. Low Grade Elev. 446.2 at Sta. 1104+53

10 Yr. Outlet Velocity through Exist. Structure = 12.4 ft/s
10 Yr. Outlet Velocity through Prop. Structure = 5.9 ft/s

LOADING HL-93

Allow 50#/sq. ft. for future wearing surface

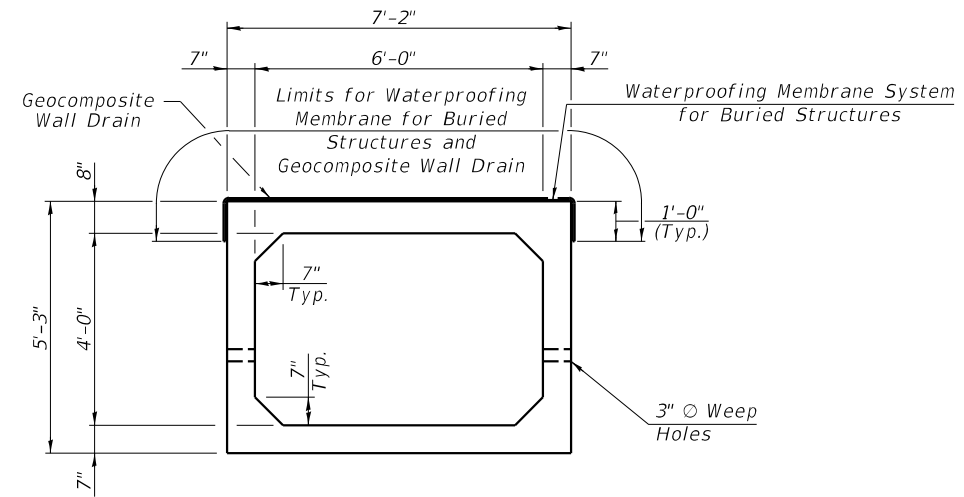
DESIGN SPECIFICATIONS

2020 AASHTO LRFD Bridge Design Specifications, 9th Edition

DESIGN STRESSES

PRECAST UNITS

f'c = 5,000 psi
fy = 65,000 psi (Welded Wire Fabric)
fy = 60,000 psi (Reinforcement)



SECTION THRU PRECAST BARREL



USER NAME =	DESIGNED -	REVISED -
PLOT SCALE =	CHECKED -	REVISED -
PLOT DATE =	DRAWN -	REVISED -
	CHECKED -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL DATA
STRUCTURE NO. 035-7033

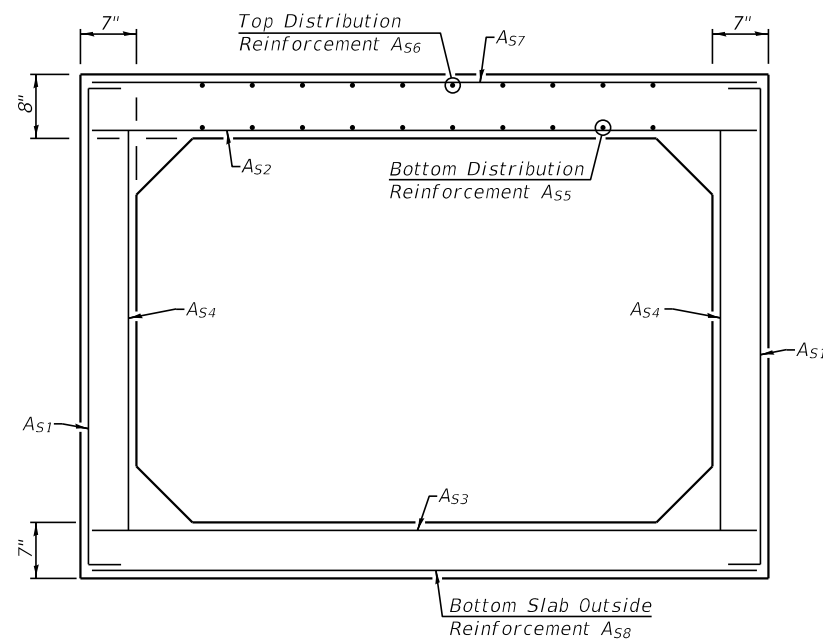
SHEET NO. 2 OF 5 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
778	3CR-1;4CR-1	HARDIN	51	42
CONTRACT NO. 78844				
ILLINOIS FED. AID PROJECT				

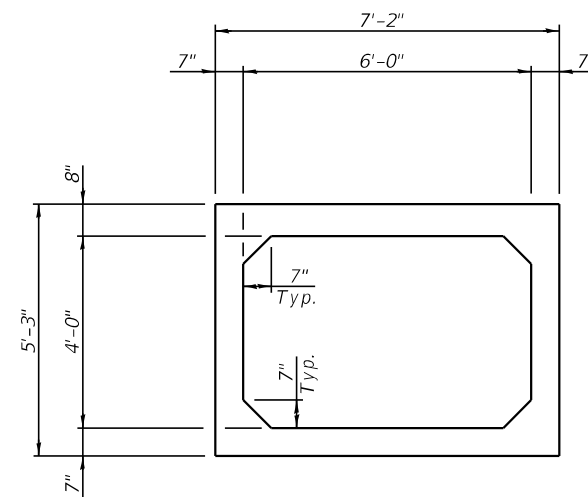
PRECAST CONCRETE BOX CULVERT 6'x4'

1. Precast Concrete Box Culverts 6'x4' shall conform to the requirements of Article 540.06 of the Standard Specifications, the applicable requirements of AASHTO M 259 and ASTM C1577-17 except as modified herein.
The minimum precast concrete strength shall be 5,000 psi.
Lifting holes shall be filled with concrete plugs and mastic after box sections are in place.
Fill varies from 1.9' to 2.4' within limits of roadway.
2. Contractor shall maintain streamflow in accordance with the Standard Specifications Article 502.
3. Diversion and Construction activities shall not be permitted to cause water levels upstream to rise more than the amount allowed per the drainage study.
4. Cover from face of precast concrete reinforcement bars shall be 2" for the top of the top slab, and 1" for all other surfaces.
5. The reinforcement areas shown on this plan sheet were based on welded wire reinforcement (WWR). The contractor may use reinforcement bars in lieu of welded WWR. Reinforcement bars shall be limited to the sizes of #3 through #5 bars, and have a maximum spacing of the lesser of 8" or the member thickness. The reinforcement areas shown on this sheet shall be increased to account for the difference in steel yield strength in accordance with ASTM C1577, Section 12.6.

Transverse Reinforcement	As1	0.250 in ² /ft.	
	As2	0.640 in ² /ft.	
	As3	0.300 in ² /ft.	
	As4	0.170 in ² /ft.	
	As7	0.570 in ² /ft.	
	As8	0.170 in ² /ft.	
	Longitudinal Reinforcement	As5	0.300 in ² /ft.
		As6	0.190 in ² /ft.



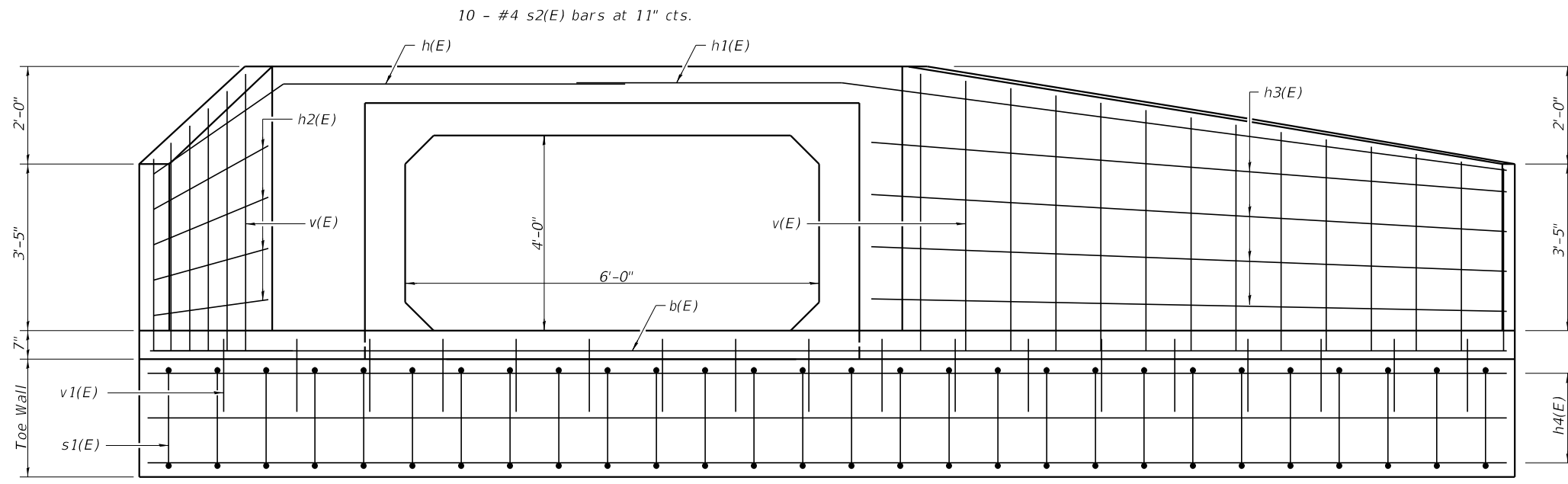
PRECAST BARREL REINFORCEMENT



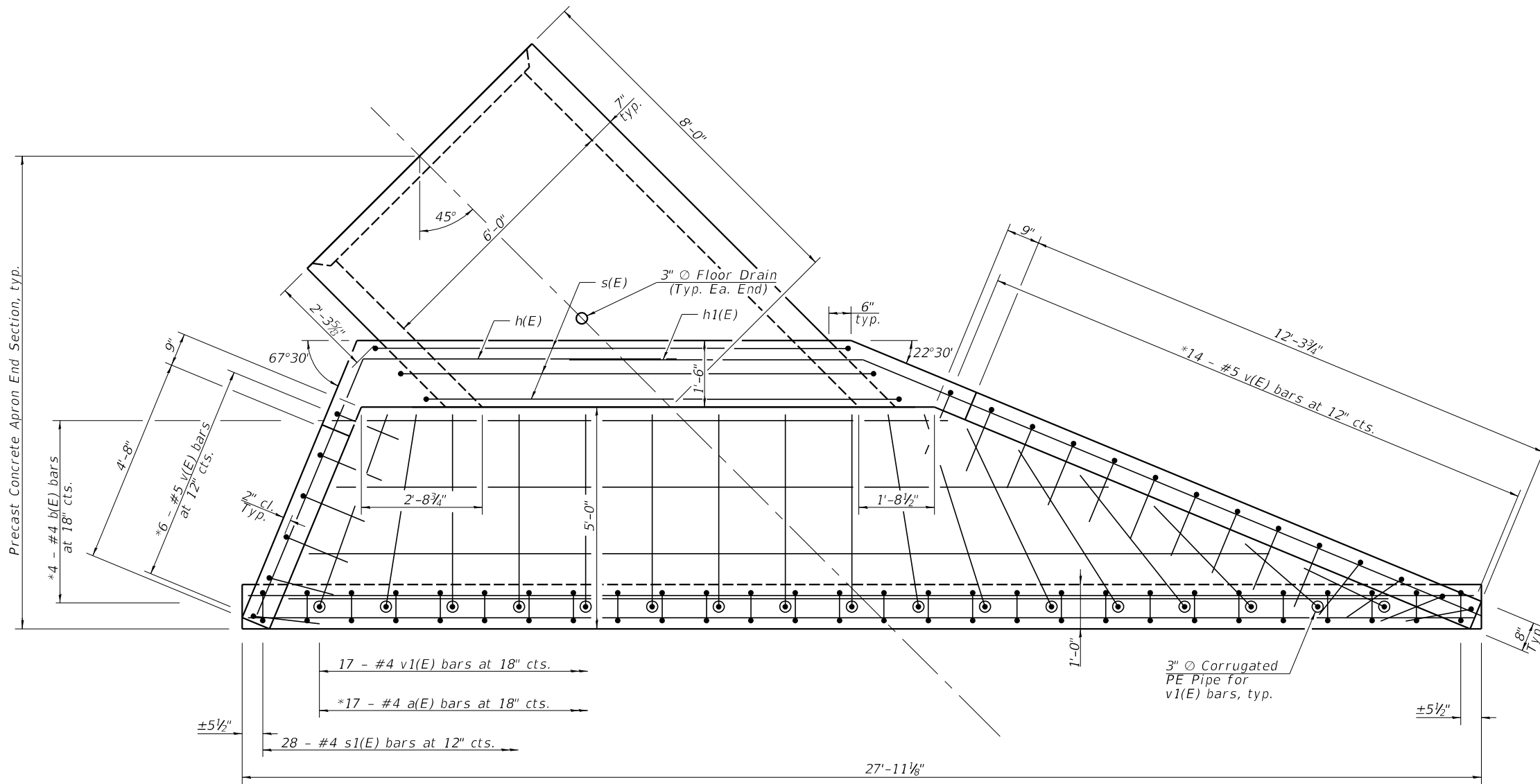
SECTION THRU PRECAST BARREL

USER NAME =	DESIGNED -	REVISED -
PLOT SCALE =	CHECKED -	REVISED -
PLOT DATE =	DRAWN -	REVISED -
	CHECKED -	REVISED -

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
778	3CR-1;4CR-1	HARDIN	51	43
CONTRACT NO. 78844				
ILLINOIS FED. AID PROJECT				



ELEVATION



PLAN

(Downstream End Section shown. Upstream End Section similar except for precast joint connection.)

MINIMUM BAR LAP
#4 bar = 2'-5"

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

* Cut or bend to fit.



USER NAME =	DESIGNED -	REVISED -
PLOT SCALE =	CHECKED -	REVISED -
PLOT DATE =	DRAWN -	REVISED -
	CHECKED -	REVISED -

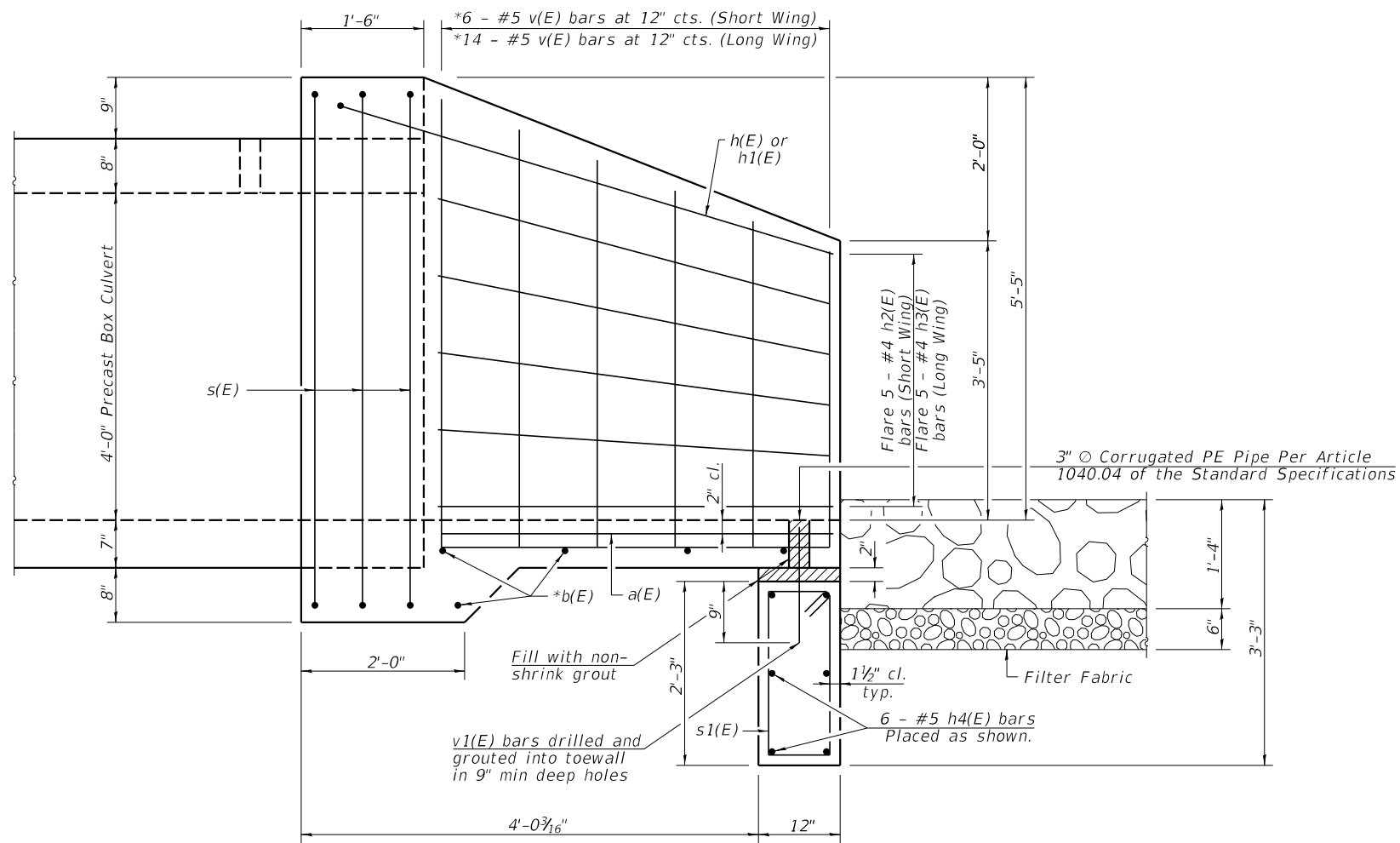
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

APRON END SECTION DETAILS
STRUCTURE NO. 035-7033

SHEET NO. 4 OF 5 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
778	3CR-14CR-1	HARDIN	51	44
CONTRACT NO. 78844				

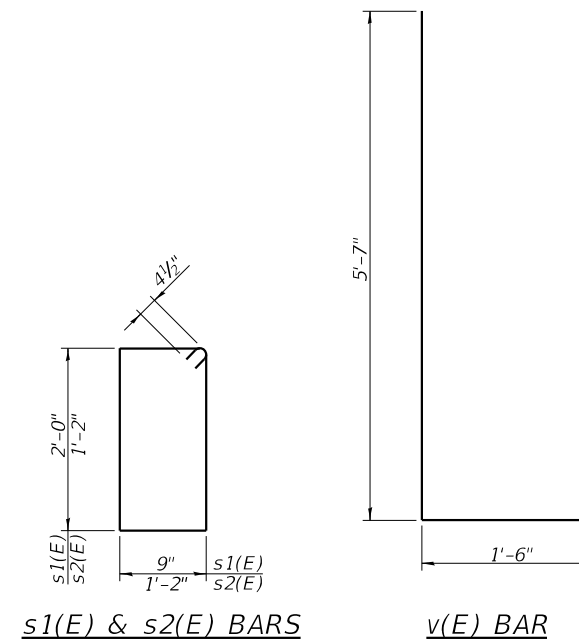
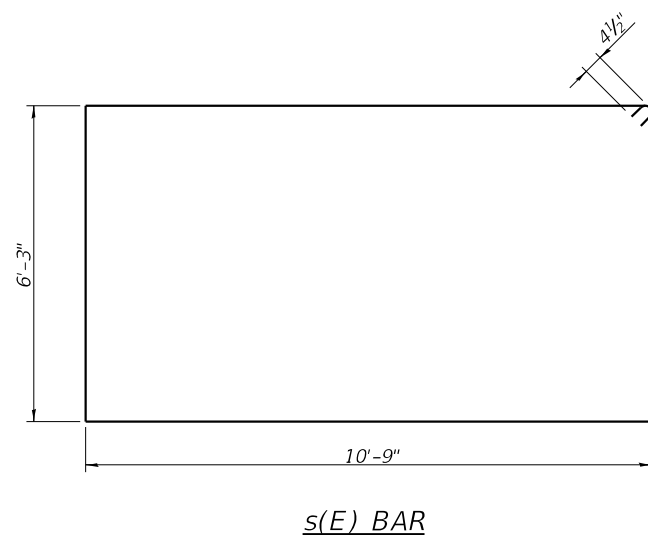
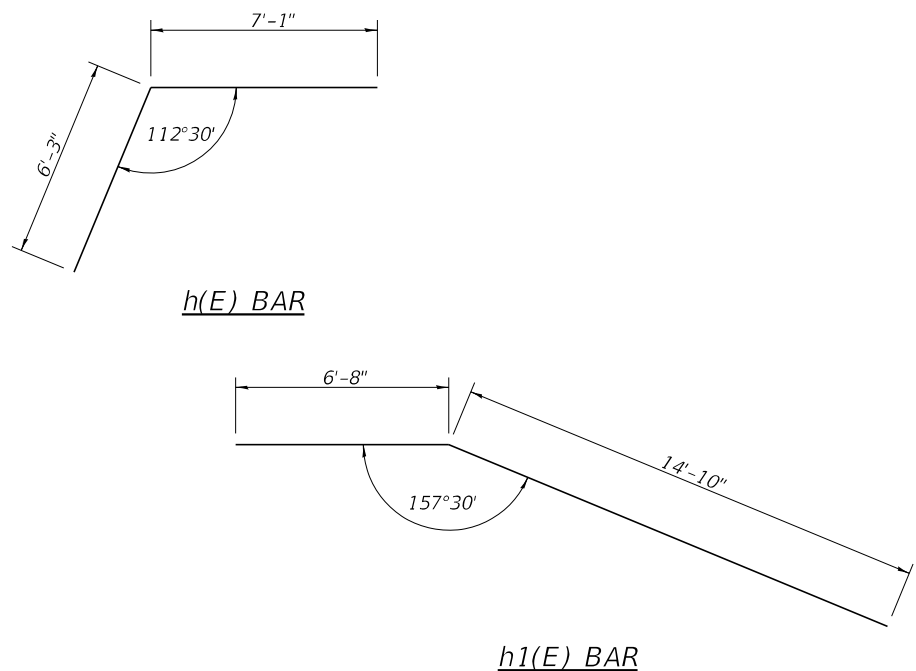
ILLINOIS FED. AID PROJECT



HALF SIDE ELEVATION

* Cut or bend to fit.

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

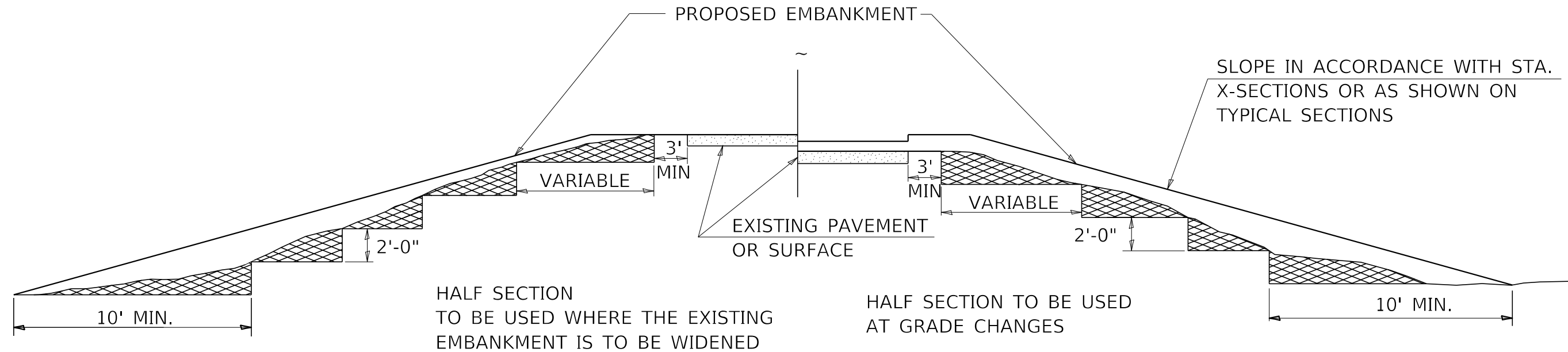


**BILL OF MATERIAL
TWO APRON END SECTIONS**

Bar	No.	Size	Length	Shape
a(E)	34	#4	4'-5"	—
b(E)	4	#4	38'-0"	—
h(E)	2	#4	13'-4"	↘
h1(E)	2	#4	21'-6"	↘
h2(E)	10	#4	6'-5"	—
h3(E)	10	#4	15'-1"	—
h4(E)	12	#5	27'-10"	—
s(E)	6	#4	34'-9"	⊠
s1(E)	56	#4	6'-3"	⊠
v(E)	40	#5	7'-1"	↘
v1(E)	34	#4	1'-5"	—
Concrete Box Culverts			Cu. Yd.	29.0
Reinforcement Bars, Epoxy Coated			Pound	1,470

Reinforcement Bars designated (E) shall be Epoxy Coated.
Exposed edges shall be beveled 3/4".

TYPICAL CROSS SECTION SHOWING STEP CONSTRUCTION ON EXISTING FILL



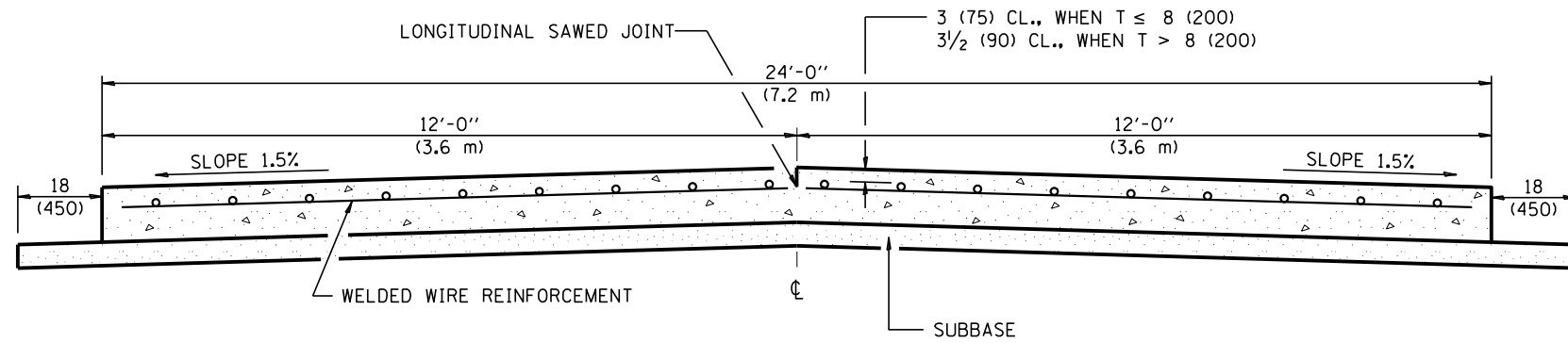
STEPS SHALL BE CUT IN THE EXISTING SLOPE IN ACCORDANCE WITH ART. 205.03 EXCEPT THAT THE REQUIREMENT THAT STEPS SHALL BE CUT INTO THE EXISTING SLOPE BEFORE THE CONSTRUCTION OF THE EXISTING EMBANKMENT IS STARTED SHALL NOT APPLY. MATERIAL TO BE REMOVED AND REPLACED IN THE EMBANKMENT IN ACCORDANCE WITH ART. 205.04. COST TO BE INCLUDED IN THE VARIOUS ITEMS OF EXCAVATION AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED BECAUSE OF THIS WORK.

REVISIONS

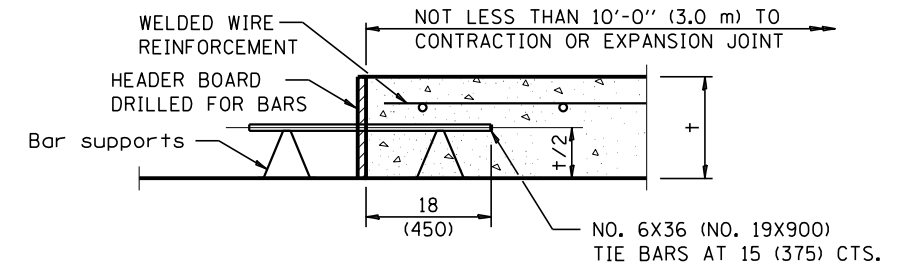
REDRAWN	2-15-89
REVISED	8-15-94
CHECKED	6-3-99
RESIZED	5-7-08
REVIEWED	5-17-13
REVISED	4-22-21
REVISED	10-21-21

STD. 9-16

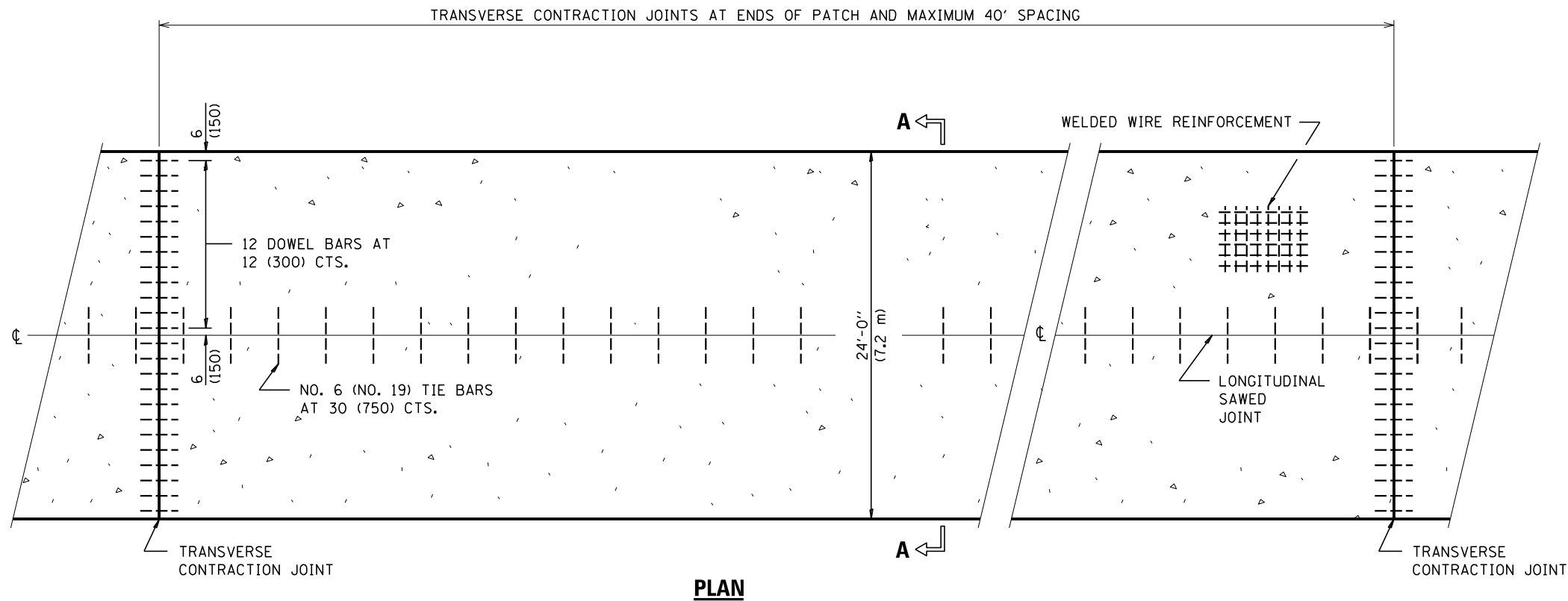
24' (7.2 m) PCC PAVEMENT OVER BOX CULVERT



SECTION A-A
(TYPICAL 2-LANE WITH SHOULDERS)



TRANSVERSE CONSTRUCTION JOINT
(IF NEEDED PER STANDARD SPECIFICATIONS)



PLAN

GENERAL NOTES

- SEE STANDARD 420001 FOR DETAILS NOT SHOWN.
- SEE STANDARD 420701 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 =	DESIGNED -	REVISED -
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PLOT DATE =	DRAWN -	REVISED -
	CHECKED -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

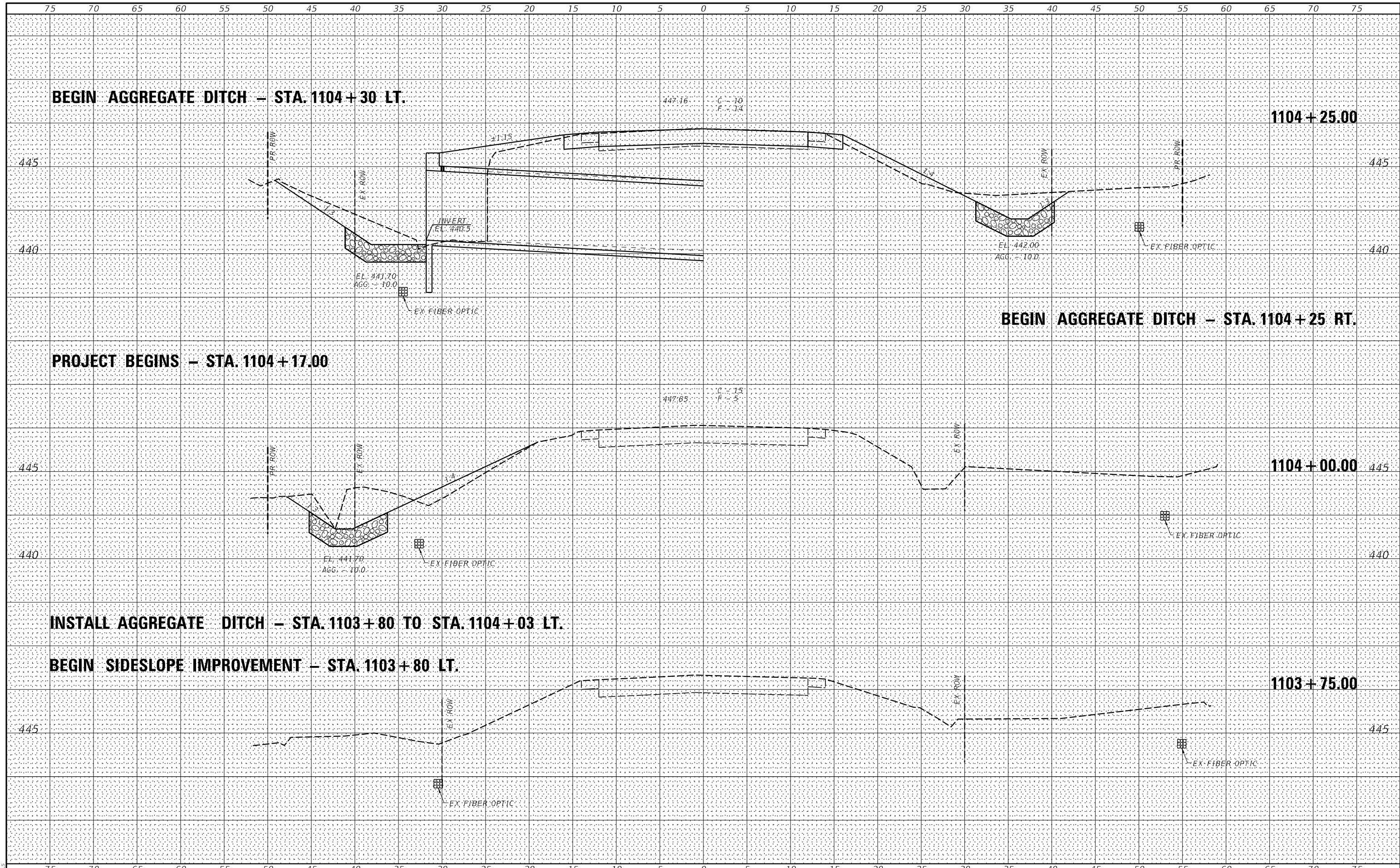
DISTRICT STANDARDS

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
778	3CR-1;4CR-1	HARDIN	51	48
CONTRACT NO. 78844				
ILLINOIS FED. AID PROJECT				

DATE	
BY	
ORIGINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	TEMPLATE
	AREAS CHECKED
	AREAS CHECKED

DATE	
BY	
ORIGINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	TEMPLATE
	AREAS CHECKED
	AREAS CHECKED



MODEL: \$MODELNAME\$
FILE NAME: \$FILES\$

VK VEENSTRA & KIMM INC.
Springfield, IL. Phone: (217)544-8033
IL. Design Firm No. 184-001939

USER NAME = \$USERS	DESIGNED - _____	REVISED - _____
	DRAWN - _____	REVISED - _____
PLOT SCALE = \$SCALE\$	CHECKED - _____	REVISED - _____
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

CROSS SECTIONS

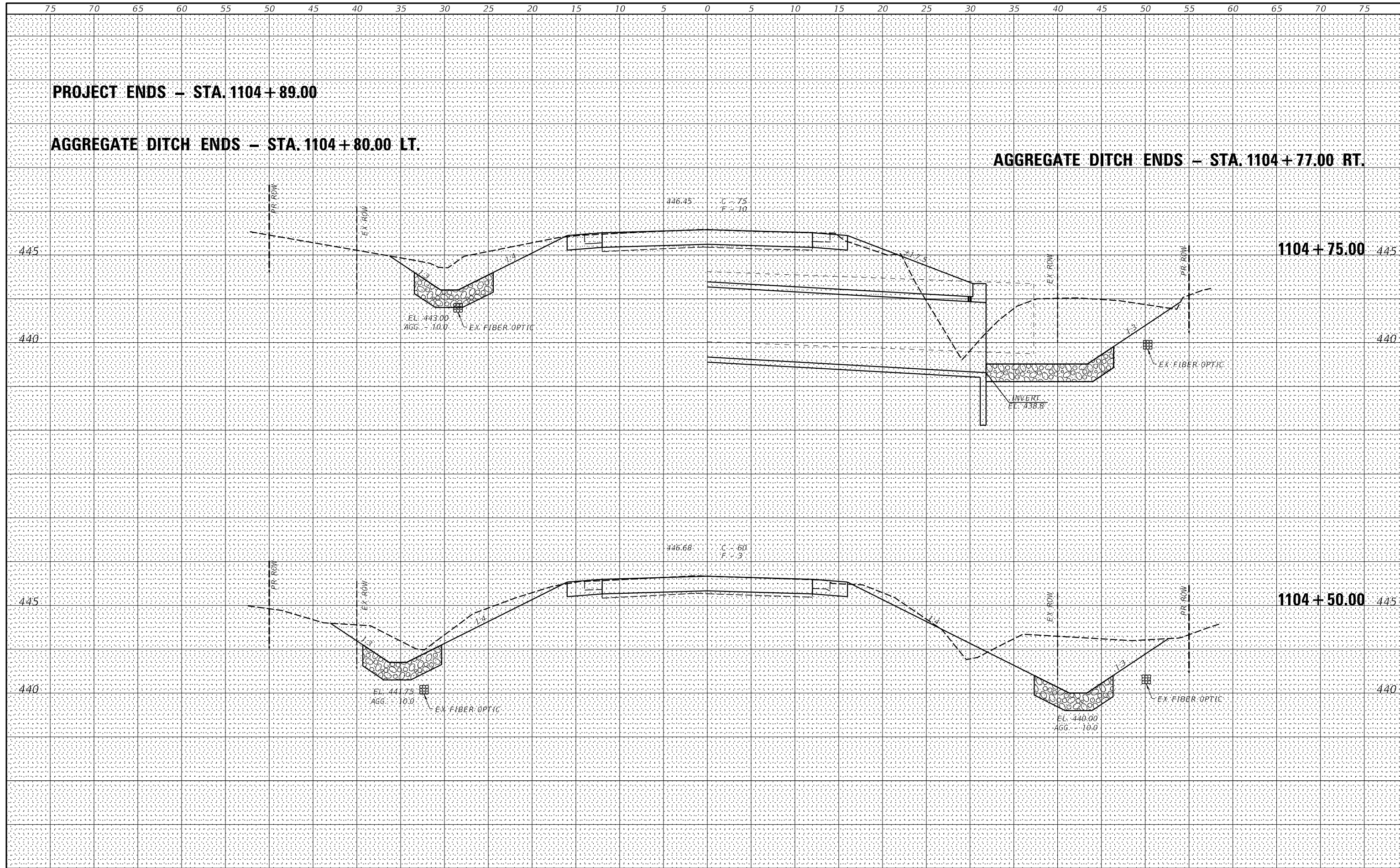
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
778	3CR-1;4CR-1	HARDIN	51	49
CONTRACT NO. 78844				
ILLINOIS FED. AID PROJECT				

DATE
BY
SURVEYED
PLOTTED
FINAL SURVEY NOTE BOOK NO.
TEMPLATES AREAS CHECKED

DATE
BY
SURVEYED
PLOTTED
ORIGINAL SURVEY NOTE BOOK NO.
TEMPLATES AREAS CHECKED

MODEL: \$MODELNAME\$
FILE NAME: \$FILES\$



PROJECT ENDS - STA. 1104+89.00

AGGREGATE DITCH ENDS - STA. 1104+80.00 LT.

AGGREGATE DITCH ENDS - STA. 1104+77.00 RT.

**STATE OF ILLINOIS
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CROSS SECTIONS

VEENSTRA & KIMM INC.
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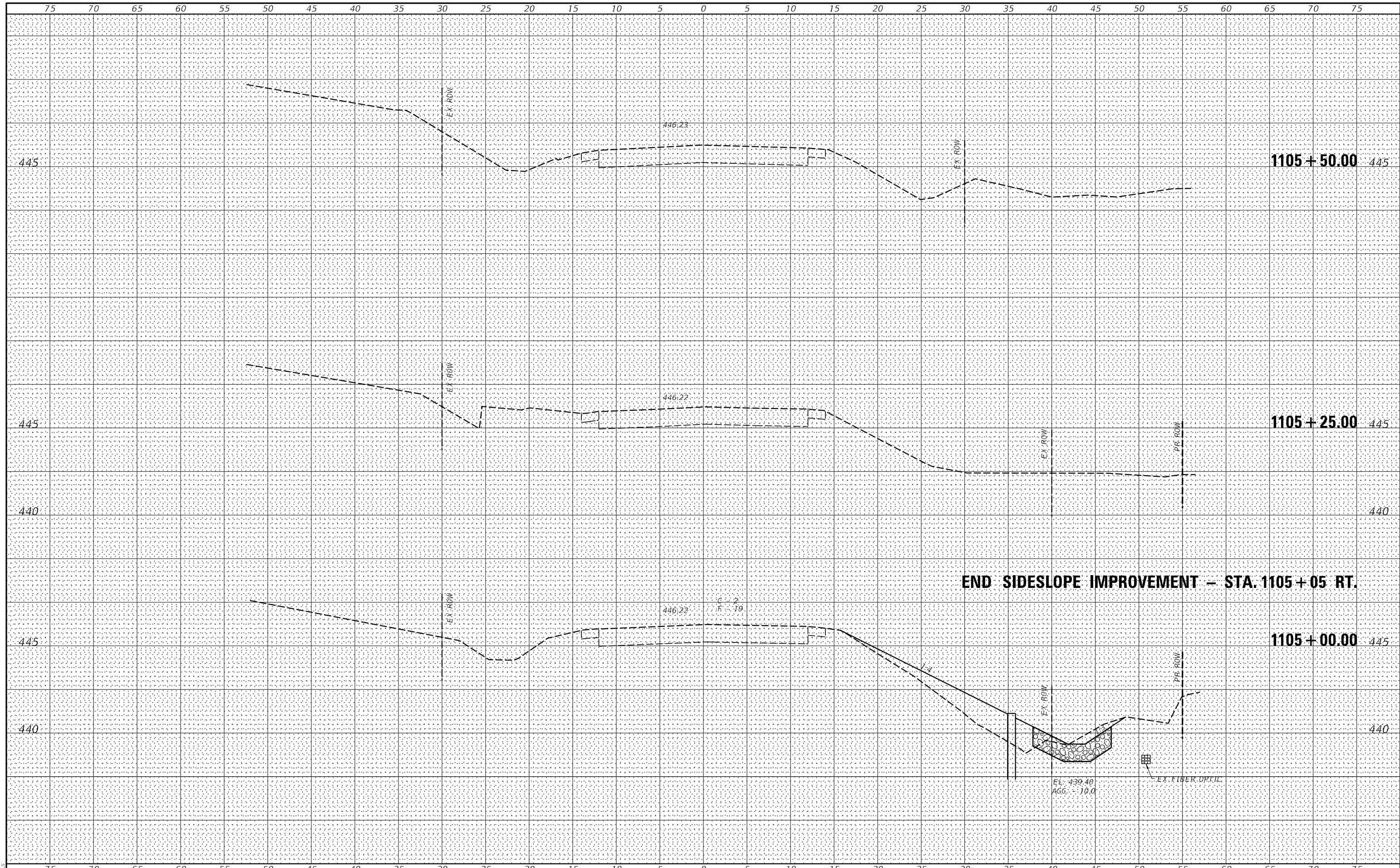
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	DATE - _____	REVISED - _____

SCALE: _____	SHEET 2 OF 3 SHEETS	STA. 1104+50.00 TO STA. 1104+75.00
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
778	3CR-1;4CR-1	HARDIN	51	50
CONTRACT NO. 78844				
ILLINOIS FED. AID PROJECT				

FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK NO.	PLOTTED		
	TEMPLATE		
	AREAS CHECKED		

ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK NO.	PLOTTED		
	TEMPLATE		
	AREAS CHECKED		



MODEL: \$MODELNAME\$
FILE NAME: \$FILES\$

VK VEENSTRA & KIMM INC.
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IL. Design Firm No. 184-001939

USER NAME = \$USERS\$	DESIGNED - _____	REVISED - _____
PLOT SCALE = \$SCALE\$	DRAWN - _____	REVISED - _____
PLOT DATE = \$DATES\$	CHECKED - _____	REVISED - _____
	DATE - _____	REVISED - _____

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

CROSS SECTIONS

SCALE: _____ SHEET 3 OF 3 SHEETS STA. 1105+00.00 TO STA. 1105+50.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
778	3CR-1;4CR-1	HARDIN	51	51
CONTRACT NO. 78844				
ILLINOIS FED. AID PROJECT				