

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
853	9B-1	HAMILTON	56	1
ILLINOIS			CONTRACT NO. 78830	

FOR INDEX OF SHEETS, SEE SHEET NO. 3

FOR SUMMARY OF QUANTITIES, SEE SHEET NO. 5-10

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

FAP ROUTE 853 (IL 14)
SECTION 9B-1
PROJECT HBFP-VPR6(289)
BRIDGE REPLACEMENT
OVER BEAR CREEK
HAMILTON COUNTY
C-99-013-21

TRAFFIC DATA

FUNCTIONAL CLASSIFICATION: MINOR ARTERIAL
ADT: 4270 (2023)
PV: 94.0%
TRUCKS: 6.0%
DESIGN SPEED: 45 MPH
POSTED SPEED: 45 MPH

TOWNSHIP

MCLEANSBORO TOWNSHIP
DESIGN DESIGNATION : N/A

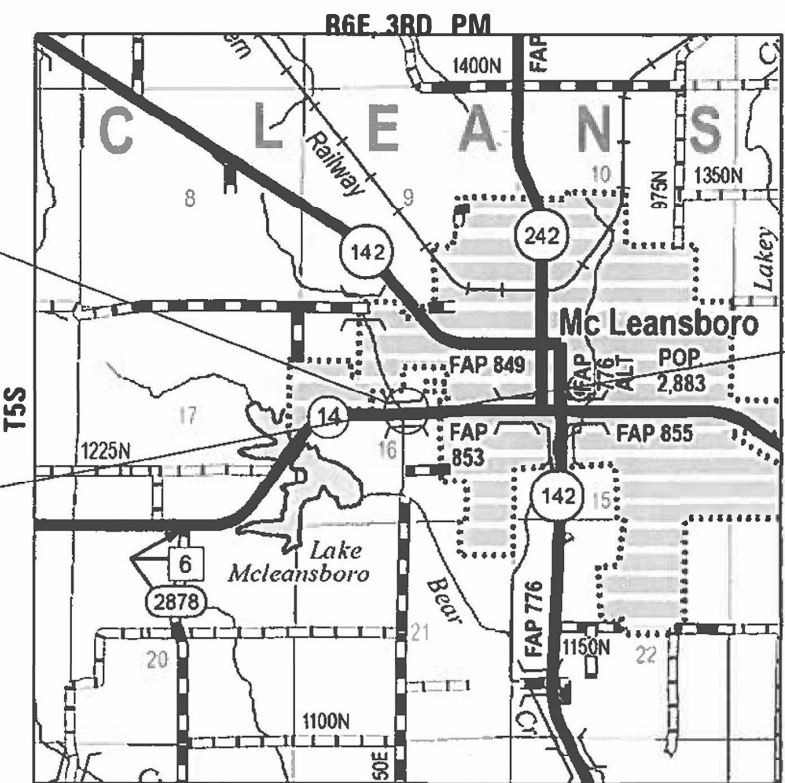
COORDINATE SYSTEM : NAD 1983 STATE PLANE ILLINOIS
WEST FIPS 1202 FEET (HORIZONTAL)
NAVD88 (VERTICAL)



EXISTING STRUCTURE NO. 033-0004
STATION 196+50.00
PROPOSED STRUCTURE NO. 033-2014
STATION 196+56.25
OVER BEAR CREEK
TRIPLE BARREL BOX CURVERT
10' SPAN X 7' RISE
NO SKIWE

IL 14
IMPROVEMENTS END STA 196+92.25

IL 14
IMPROVEMENTS BEGIN STA 196+20.25



LOCATION MAP

GROSS LENGTH = 72.00 FT. = 0.01 MILES
NET LENGTH = 72.00 FT. = 0.01 MILES



EXPIRES 11-30-23
Eric L. Henkel
SIGNATURE

10-03-23
DATE

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

PROJECT ENGINEER: EHREN KIRBY
PROJECT DESIGNER: ESCA CONSULTANTS, INC.

CONTRACT NO. 78830

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBMITTED Oct 20 20 23
Kirk H. Brown
REGION FIVE ENGINEER
December 8, 2023
Scott A. Etkin
ENGINEER OF DESIGN AND ENVIRONMENT
December 8, 2023
Stephen M. Janda
DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

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4/20/11 11:01 AM T:\MO\11359-13\88300\40\pdp\p2\c\A03_Sheet\10978830-sh.dgn



USER NAME = IRC	DESIGNED - IRC	REVISED -
ESCA PROJECT NO. 1359.12	DRAWN - IRC	REVISED -
PLD SCALE = 0.1667" / in.	CHECKED - ELH	REVISED -
PLD DATE = 10/5/2011	DATE - 09/23	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SIGNATURE BLOCK

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
853	9B-1	HAMILTON	56	2
ILLINOIS FED. AID PROJECT CONTRACT NO. 78830				

PREPARED BY: Charles Stein
DISTRICT STUDIES & PLANS ENGINEER

EXAMINED BY: Nancy Lee
DISTRICT LAND ACQUISITION ENGINEER

EXAMINED BY: Car Miller
DISTRICT PROGRAM DEVELOPMENT ENGINEER

EXAMINED BY: _____
DISTRICT OPERATIONS ENGINEER

EXAMINED BY: Doug J. Muehl
DISTRICT PROJECT IMPLEMENTATION ENGINEER

EXAMINED BY: Doug J. Muehl
DISTRICT CONSTRUCTION ENGINEER

EXAMINED BY: Ann Dwyer
DISTRICT MATERIALS ENGINEER

LIST OF ILLINOIS DOT HIGHWAY STANDARDS

STANDARD NO.	DESCRIPTION
000001-08	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
001001-02	AREAS OF REINFORCEMENT BARS
001006	DECIMAL OF AN INCH AND OF A FOOT
280001-07	TEMPORARY EROSION CONTROL SYSTEMS
420001-10	PAVEMENT JOINTS
420101-07	24' JOINTED PCC PAVEMENT
420701-03	PAVEMENT WELDED WIRE REINFORCEMENT
483001-06	PCC SHOULDER
515001-04	NAME PLATE FOR BRIDGES
542301-03	PRECAST REINFORCED CONCRETE FLARED END SECTION
602402-03	PRECAST MANHOLE TYPE A 5' (1.52 m) DIAMETER
602601-06	PRECAST REINFORCED CONCRETE FLAT SLAB TOP
602701-02	MANHOLE STEPS
604001-05	FRAME AND LIDS TYPE 1
630001-13	STEEL PLATE BEAM GUARDRAIL
630101-11	STRONG POST GUARDRAIL ATTACHED TO CULVERT
630201-07	PCC / HMA STABILIZATION AT STEEL PLATE BEAM GUARDRAIL
630301-09	SHOULDER WIDENING FOR TYPE 1 (SPECIAL) GUARDRAIL TERMINALS
642006-01	SHOULDER RUMBLE STRIPS, 8 in.
701001-02	OFF-RD OPERATIONS, 2L, 2W, MORE THAN 15' (4.5 m) AWAY
701006-05	OFF-RD OPERATIONS, 2L, 2W, 15' (4.5 m) TO 24" (600 mm) FROM PAVEMENT EDGE
701011-04	OFF-RD 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
701321-18	LANE CLOSURE, 2L, 2W, BRIDGE REPAIR WITH BARRIER
701326-04	LANE CLOSURE, 2L, 2W, PAVEMENT WIDENING, FOR SPEEDS ≥45 MPH
701901-09	TRAFFIC CONTROL DEVICES
704001-08	TEMPORARY CONCRETE BARRIER
720001-01	SIGN PANEL MOUNTING DETAILS
720006-04	SIGN PANEL ERECTION DETAILS
725001-01	OBJECT AND TERMINAL MARKERS
780001-05	TYPICAL PAVEMENT MARKINGS
782006-01	GUARDRAIL AND BARRIER WALL REFLECTOR MOUNTING DETAILS
862001-01	UNINTERRUPTABLE POWER SUPPLY (UPS)
B.L.R. 21-9	TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES FOR CONSTRUCTION ON RURAL LOCAL HIGHWAYS

INDEX OF SHEETS

SHEET NO.	DESCRIPTION
ROADWAY PLANS	
1.	COVER SHEET
2.	SIGNATURE BLOCK
3.	INDEX OF SHEETS AND HIGHWAY STANDARDS
4.	GENERAL NOTES AND COMMITMENTS
5.-10.	SUMMARY OF QUANTITIES
11.-12.	FAP 853 (IL 14) TYPICAL SECTIONS
13.-14.	FAIRGROUND ROAD TYPICAL SECTIONS
15.-16.	SCHEDULES OF QUANTITIES
17.-18.	ALIGNMENT, TIES & BENCHMARKS
19.-21.	FAP 853 (IL 14) PLAN AND PROFILE
22.	PRE-STAGE I & STAGE I TRAFFIC CONTROL
23.	STAGE II TRAFFIC CONTROL
24.	STAGE CONSTRUCTION SECTIONS
25.	EROSION CONTROL PLAN
26.	REMOVAL PLAN
27.	GUARDRAIL DETAILS
28.	SEEDING AND MULCHING & STEP CONSTRUCTION ON EXISTING FILL DETAILS
29.	PAVEMENT TRANSITION DETAILS
30.	ENTRANCE DETAILS
31.	24' PCC PAVEMENT OVER BOX CULVERT
STRUCTURE PLANS – SN 033–2014	
32.	GENERAL PLAN
33.	GENERAL DATA
34.	STAGE CONSTRUCTION DETAILS
35.	TEMPORARY SOIL RETENTION SYSTEM
36.	TEMPORARY CONCRETE BARRIER
37.-41.	BOX CULVERT DETAILS
42.	BAR SPLICER ASSEMBLY DETAILS
43.	BORING LOGS
EXISTING STRUCTURE PLANS	
44.-49.	SN 033-0004 EXISTING STRUCTURE PLANS
CROSS SECTIONS	
50.-55.	IL 14 CROSS SECTIONS
56.	FAIRGROUND ROAD CROSS SECTIONS

MODEL: ILL DOT
FILE NAME: Y:\DOT\1359-12-78830\CADD\Highway\CADD_Sheets\0978830-9H-000002.dgn

REV. - MS

	USER NAME = IRC	DESIGNED - IRC	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	INDEX OF SHEETS AND HIGHWAY STANDARDS			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	ESCA PROJECT NO. 1359.12	DRAWN - IRC/NHC	REVISED -					853	9B-1	HAMILTON	56	3
	PLOT SCALE = 0.1667' / in.	CHECKED - ELH	REVISED -					CONTRACT NO. 78830				
PLOT DATE = 10/5/2023	DATE = 09/23	REVISED -	SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.	ILLINOIS FED. AID PROJECT					

GENERAL NOTES

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

ALL HOT-MIX ASPHALT	2.016 TONS/CU YD
ALL AGGREGATE	2.05 TONS/CU YD
RIPRAP	1.50 TONS/CU YD
- THE ALGEBRAIC DIFFERENCE BETWEEN THE PAVEMENT AND SHOULDER SLOPES SHALL NOT EXCEED 10%.
- TRENCH BACKFILL REQUIRED FOR STORM SEWER, SANITARY SEWER, OR WATER MAINS SHALL ONLY BE PLACED UP TO ONE FOOT BELOW THE FINAL GRADE IN AREAS HAVING A PROPOSED GRASS OR SOD SURFACE.
- 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.

COMMITMENTS

- NO COMMITMENTS AS OF JULY 15TH, 2023.

- CONNECTING OF NEW OR EXISTING STORM SEWER TO NEW OR EXISTING INLETS OR MANHOLES SHALL BE MADE IN A MANNER WHICH RESULTS IN A NEAT AND WATERTIGHT JOINT. WHEN PLACED THROUGH THE WALL OF AN INLET OR MANHOLE, STORM SEWER PIPE SHALL BE PLACED OR CUT FLUSH WITH THE FACE OF THE WALL AND DRESSED WITH MORTAR TO PROVIDE A SMOOTH ROUNDED OR BEVELED EDGE. THIS WORK WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE CONSIDERED AS INCLUDED IN THE CONTRACT UNIT PRICES OF THE STORM SEWERS OR STRUCTURES INVOLVED.
- EDGE LINE PAVEMENT MARKING SHALL BE REMOVED IF A 10 FT LANE WIDTH CANNOT BE MAINTAINED. TEMPORARY EDGE LINES SHALL BE INSTALLED WHEN THE EDGE LINES ARE REMOVED.
- REMOVAL OF ABANDONED UTILITIES SHALL BE INCLUDED IN THE COST OF EARTH EXCAVATION.

HMA MIXTURES REQUIREMENTS TABLE

LOCATIONS	INCIDENTAL HOT-MIX ASPHALT SURFACING
MIXTURE USES	HOT-MIX ASPHALT SURFACE COURSE, MIX C, N70
PG:	PG64-22
DESIGN AIR VOIDS:	4.0% @ Ndes=70
MIX COMPOSITION:	IL-9.5
FRICTION AGGREGATE:	MIX C
MIXTURE WEIGHT:	112 LBS/SQ YD/IN
QUALITY MANAGEMENT PROGRAM:	QC/QA
SUBLOT SIZE:	N/A
MATERIAL TRANSFER DEVICE (REQUIRED?)	NO

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

GENERAL NOTES AND COMMITMENTS

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
853	9B-1	HAMILTON	56	4
CONTRACT NO. 78830				
ILLINOIS FED. AID PROJECT				

SUMMARY OF QUANTITIES				80% FEDERAL 20% STATE	80% FEDERAL 20% STATE
				ROADWAY	STRUCTURE
CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE	
				0004 ROADWAY	0010 S.N. 033-2014
20200100	EARTH EXCAVATION	CU YD	670	670	
20400800	FURNISHED EXCAVATION	CU YD	205	205	
20700220	POROUS GRANULAR EMBANKMENT	CU YD	300		300
20800150	TRENCH BACKFILL	CU YD	37	37	
25000200	SEEDING, CLASS 2	ACRE	0.50	0.50	
25000350	SEEDING, CLASS 7	ACRE	0.50	0.50	
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	45	45	
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	45	45	
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	45	45	
25000700	AGRICULTURAL GROUND LIMESTONE	TON	1	1	
25100115	MULCH, METHOD 2	ACRE	1	1	
25100630	EROSION CONTROL BLANKET	SQ YD	1495	1495	
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	100	100	
28000305	TEMPORARY DITCH CHECKS	FOOT	90	90	

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PLOT DATE = 10/5/2023	DATE = 07/23	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: NONE SHEET NO. 1 OF 6 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
853	9B-1	HAMILTON	56	5
ILLINOIS FED. AID PROJECT			CONTRACT NO. 78830	

SUMMARY OF QUANTITIES				80% FEDERAL 20% STATE	80% FEDERAL 20% STATE
				ROADWAY	STRUCTURE
CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE	
				0004 ROADWAY	0010 S.N. 033-2014
28000400	PERIMETER EROSION BARRIER	FOOT	114	114	
28000500	INLET AND PIPE PROTECTION	EACH	1	1	
28100109	STONE RIPRAP, CLASS A5	SQ YD	232		232
28200200	FILTER FABRIC	SQ YD	232		232
31101200	SUBBASE GRANULAR MATERIAL, TYPE B 4"	SQ YD	224	224	
35102000	AGGREGATE BASE COURSE, TYPE B 8"	SQ YD	312	312	
40201000	AGGREGATE FOR TEMPORARY ACCESS	TON	35	35	
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	771	771	
40600990	TEMPORARY RAMP	SQ YD	157	157	
40800050	INCIDENTAL HOT-MIX ASPHALT SURFACING	TON	52	52	
42000060	WELDED WIRE REINFORCEMENT	SQ YD	200	200	
42000500	PORTLAND CEMENT CONCRETE PAVEMENT 10"	SQ YD	200	200	
42001300	PROTECTIVE COAT	SQ YD	860	860	
44000100	PAVEMENT REMOVAL	SQ YD	206	206	

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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES

SCALE: NONE SHEET NO. 2 OF 6 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
853	9B-1	HAMILTON	56	6
CONTRACT NO. 78830				
ILLINOIS FED. AID PROJECT				

SUMMARY OF QUANTITIES				80% FEDERAL 20% STATE	80% FEDERAL 20% STATE
				ROADWAY	STRUCTURE
CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE	
				0004	0010
				ROADWAY	S.N. 033-2014
44000200	DRIVEWAY PAVEMENT REMOVAL	SQ YD	300	300	
44213204	TIE BARS 3/4"	EACH	57	57	
48101500	AGGREGATE SHOULDERS, TYPE B 6"	SQ YD	30	30	
48300500	PORTLAND CEMENT CONCRETE SHOULDERS 10"	SQ YD	660	660	
50100100	REMOVAL OF EXISTING STRUCTURES	EACH	1		1
50105220	PIPE CULVERT REMOVAL	FOOT	201	201	
50200450	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL FOR STRUCTURES	CU YD	180		180
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	40390		40390
50800515	BAR SPLICERS	EACH	192		192
51500100	NAME PLATES	EACH	1		1
52200020	TEMPORARY SOIL RETENTION SYSTEM	SQ FT	301		301
54003000	CONCRETE BOX CULVERTS	CU YD	193.2		193.2
54213675	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 30"	EACH	2	2	
550A0140	STORM SEWERS, CLASS A, TYPE 1 30"	FOOT	173	173	

MODEL PLOTS
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES

SCALE: NONE SHEET NO. 3 OF 6 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
853	9B-1	HAMILTON	56	7
			CONTRACT NO. 78830	
		ILLINOIS	FED. AID PROJECT	

SUMMARY OF QUANTITIES				80% FEDERAL 20% STATE	80% FEDERAL 20% STATE
				ROADWAY	STRUCTURE
CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE	
				0004 ROADWAY	0010 S.N. 033-2014
59100100	GEOCOMPOSITE WALL DRAIN	SQ YD	190		190
60221000	MANHOLES, TYPE A, 5'-DIAMETER, TYPE 1 FRAME, OPEN LID	EACH	1	1	
* 63000001	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	FOOT	137.5	137.5	
* 63000030	STRONG POST GUARDRAIL ATTACHED TO CULVERT	FOOT	50		50
* 63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	3	3	
* 63100169	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) FLARED	EACH	1	1	
63200310	GUARDRAIL REMOVAL	FOOT	377	377	
64200108	SHOULDER RUMBLE STRIPS, 8 INCH	FOOT	513	513	
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	6	6	
67100100	MOBILIZATION	L SUM	1	1	
70100405	TRAFFIC CONTROL AND PROTECTION, STANDARD 701321	EACH	1	1	
70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	L SUM	1	1	
70100500	TRAFFIC CONTROL AND PROTECTION, STANDARD 701326	L SUM	1	1	
70103815	TRAFFIC CONTROL SURVEILLANCE	CAL DA	6	6	

* SPECIALTY ITEM

MODEL: PLOT04
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES

SCALE: NONE SHEET NO. 4 OF 6 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
853	9B-1	HAMILTON	56	8
			CONTRACT NO. 78830	
		ILLINOIS	FED. AID PROJECT	

SUMMARY OF QUANTITIES				80% FEDERAL 20% STATE	80% FEDERAL 20% STATE
				ROADWAY	STRUCTURE
CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE	
				0004	0010
				ROADWAY	S.N. 033-2014
70106500	TEMPORARY BRIDGE TRAFFIC SIGNALS	EACH	1	1	
70106700	TEMPORARY RUMBLE STRIPS	EACH	6	6	
70107025	CHANGEABLE MESSAGE SIGN	CAL DA	42	42	
70300100	SHORT TERM PAVEMENT MARKING	FOOT	88	88	
70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SQ FT	30	30	
70300221	TEMPORARY PAVEMENT MARKING - LINE 4"- PAINT	FOOT	815	815	
70400100	TEMPORARY CONCRETE BARRIER	FOOT	350	350	
70400125	PINNING TEMPORARY CONCRETE BARRIER	EACH	48	48	
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	275	275	
70600255	IMPACT ATTENUATORS, TEMPORARY (FULLY REDIRECTIVE, NARROW), TEST LEVEL 2	EACH	2	2	
70600322	IMPACT ATTENUATORS, RELOCATE (FULLY REDIRECTIVE, NARROW), TEST LEVEL 2	EACH	2	2	
* 72501000	TERMINAL MARKER - DIRECT APPLIED	EACH	4	4	
* 78009004	MODIFIED URETHANE PAVEMENT MARKING - LINE 4"	FOOT	815	815	
78200005	GUARDRAIL REFLECTORS, TYPE A	EACH	8	8	

* SPECIALTY ITEM

MODEL PLOTS
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES

SCALE: NONE SHEET NO. 5 OF 6 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
853	9B-1	HAMILTON	56	9
CONTRACT NO. 78830				
ILLINOIS FED. AID PROJECT				

SUMMARY OF QUANTITIES

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	80% FEDERAL 20% STATE ROADWAY	80% FEDERAL 20% STATE STRUCTURE
				CONSTRUCTION CODE	
				0004 ROADWAY	0010 S.N. 033-2014
78300201	PAVEMENT MARKING REMOVAL - GRINDING	SQ FT	526	526	
* 86200300	UNINTERRUPTABLE POWER SUPPLY, EXTENDED	EACH	1	1	
X5810103	MEMBRANE WATERPROOFING SYSTEM FOR BURIED STRUCTURES	SQ YD	190		190
* X6330725	STEEL PLATE BEAM GUARDRAIL (SHORT RADIUS)	FOOT	34.5	34.5	
X7011800	TRAFFIC CONTROL AND PROTECTION, STANDARD BLR 21	L SUM	1	1	
Z0013798	CONSTRUCTION LAYOUT	L SUM	1	1	
* Z0054500	ROCK FILL	TON	286		286

* SPECIALTY ITEM

REV. - MS

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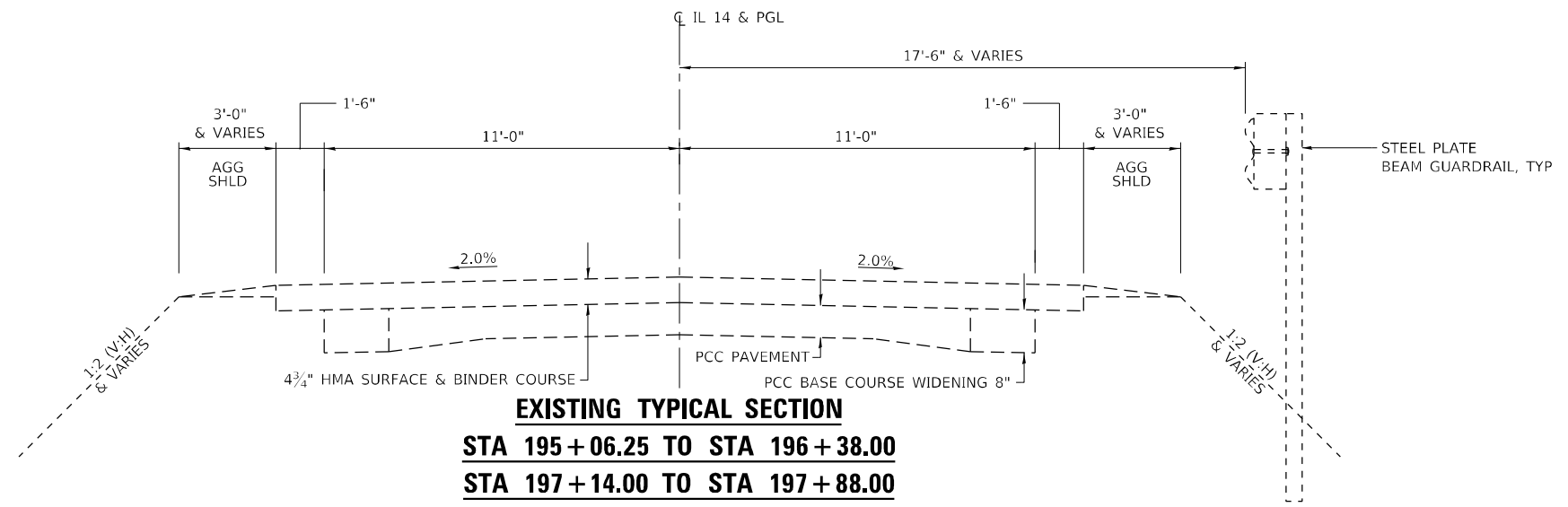


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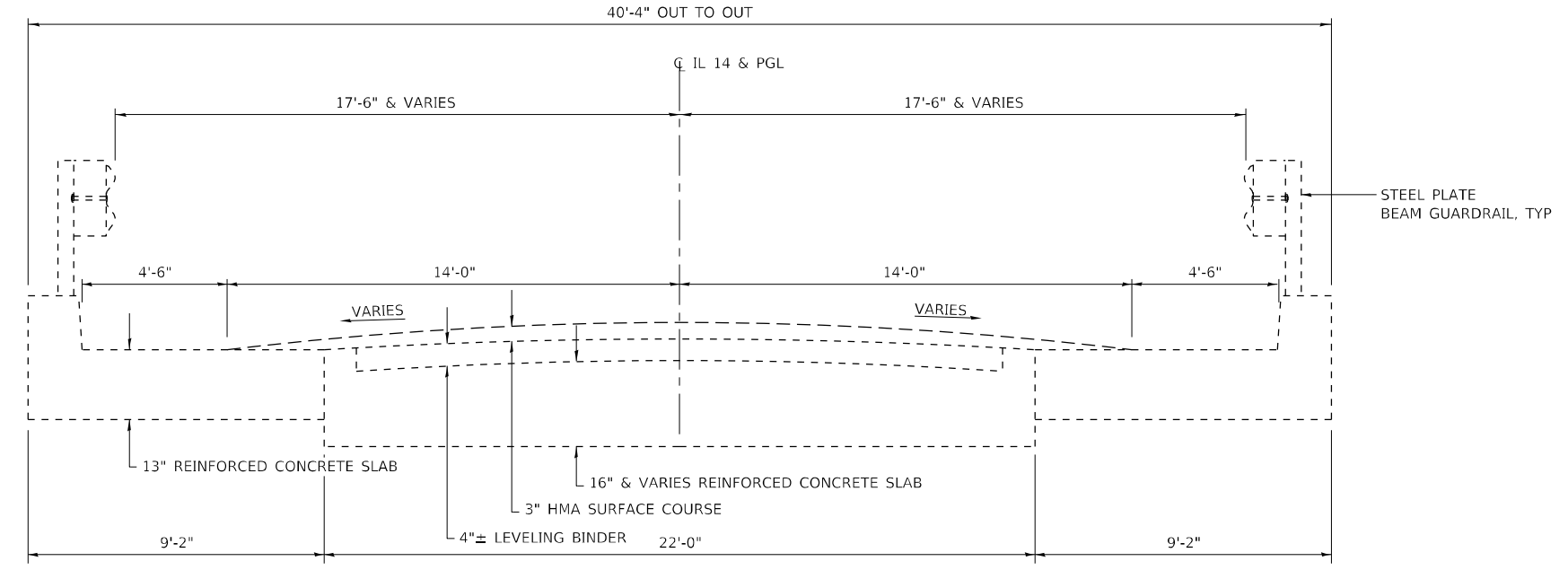
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES
SCALE: NONE SHEET NO. 6 OF 6 SHEETS STA. TO STA.

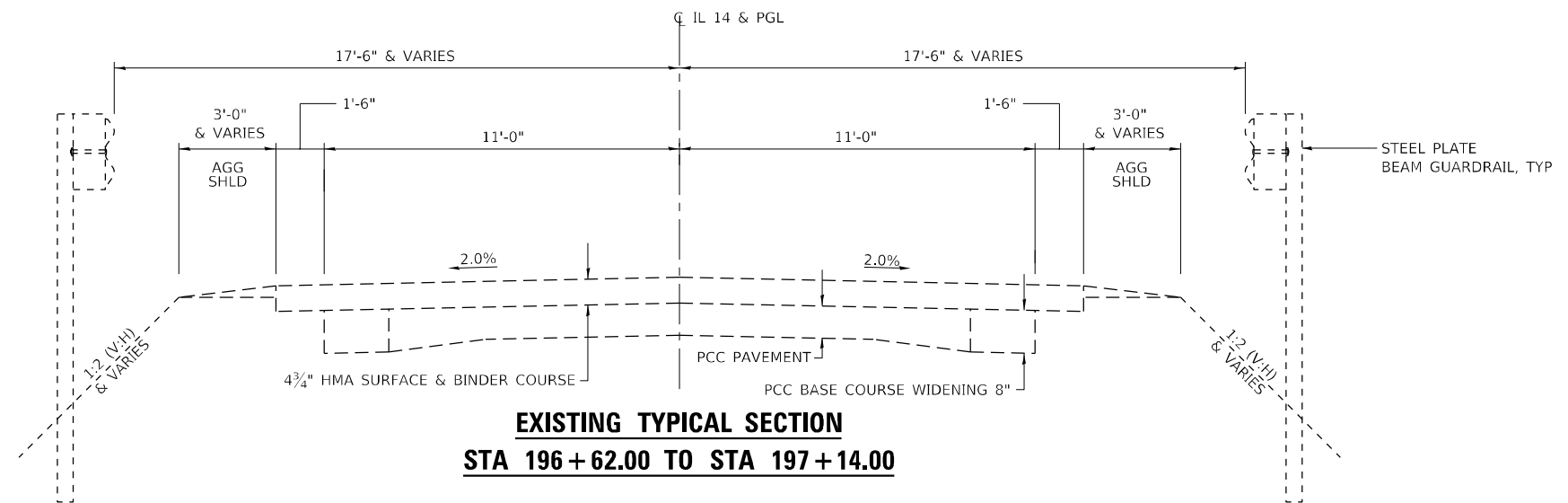
F.A.P. RTE. 853	SECTION 9B-1	COUNTY HAMILTON	TOTAL SHEETS 56	SHEET NO. 10
CONTRACT NO. 78830				ILLINOIS FED. AID PROJECT



EXISTING TYPICAL SECTION
STA 195+06.25 TO STA 196+38.00
STA 197+14.00 TO STA 197+88.00



EXISTING TYPICAL SECTION
STA 196+38.00 TO STA 196+62.00



EXISTING TYPICAL SECTION
STA 196+62.00 TO STA 197+14.00

MODEL_PLOT
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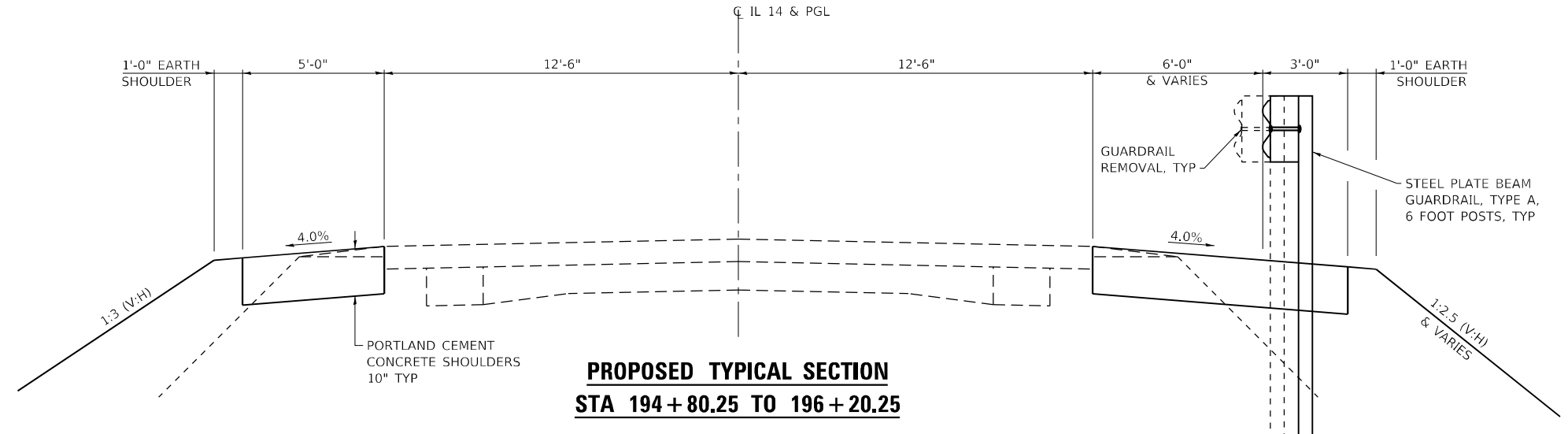
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ESCA PROJECT NO. 1359.12	DRAWN - IRC	REVISED -
PLOT SCALE = 0.1667' / in.	CHECKED - ELH	REVISED -
PLOT DATE = 10/5/2023	DATE - 11/22	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

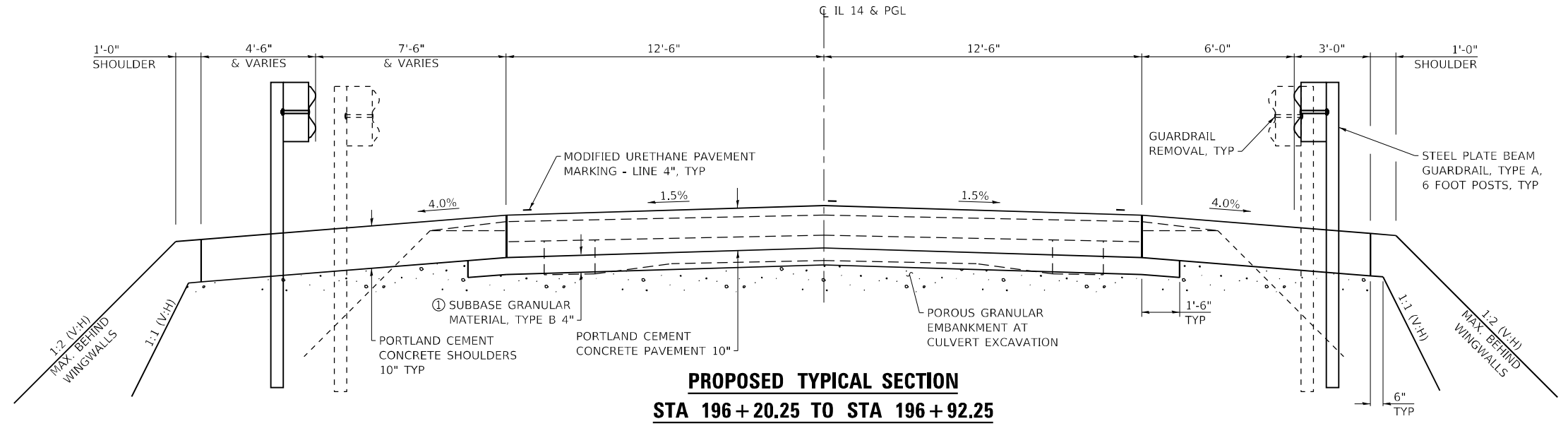
FAP 853 (IL 14) TYPICAL SECTIONS

SCALE: NONE SHEET NO. 1 OF 2 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
853	9B-1	HAMILTON	56	11
CONTRACT NO. 78830				
ILLINOIS FED. AID PROJECT				

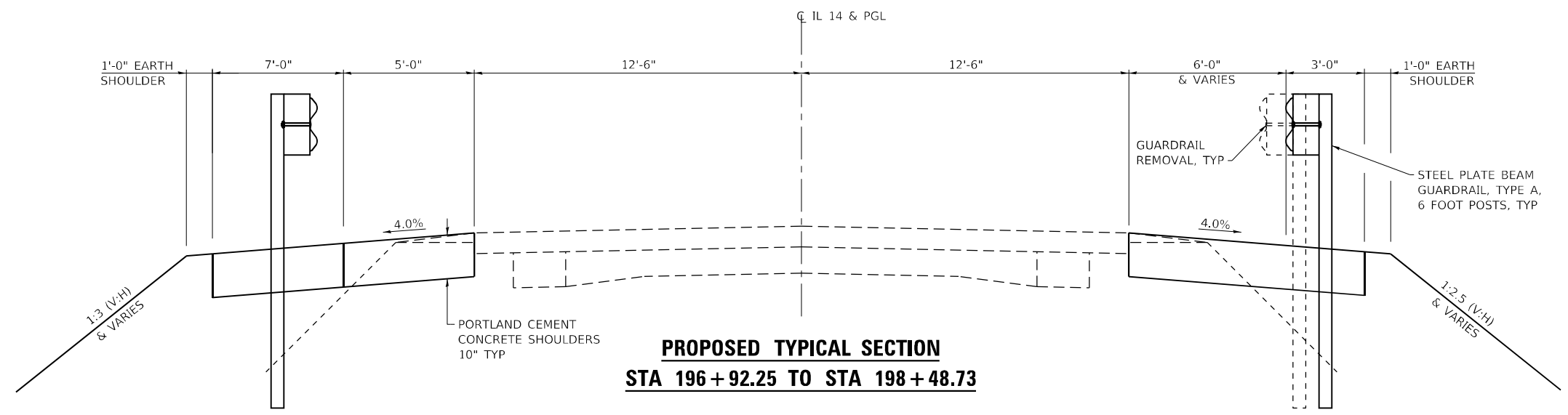


**PROPOSED TYPICAL SECTION
STA 194+80.25 TO 196+20.25**



**PROPOSED TYPICAL SECTION
STA 196+20.25 TO STA 196+92.25**

① INCREASE THICKNESS AS NECESSARY ON TOP OF BOX CULVERT, COST INCLUDED IN SUBBASE GRANULAR MATERIAL, TYPE B 4"



**PROPOSED TYPICAL SECTION
STA 196+92.25 TO STA 198+48.73**

MODEL_PLOT
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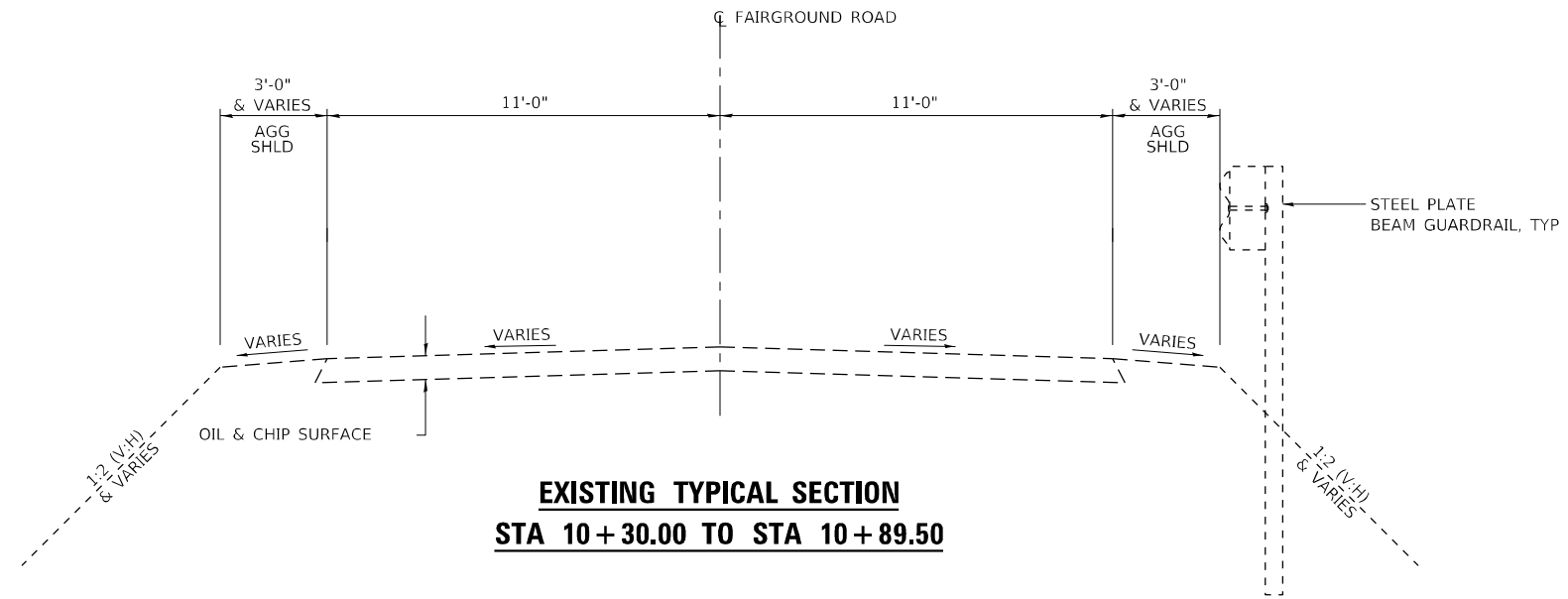
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PLOT SCALE = 0.1667' / in.	CHECKED - ELH	REVISED -
PLOT DATE = 10/5/2023	DATE - 09/23	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

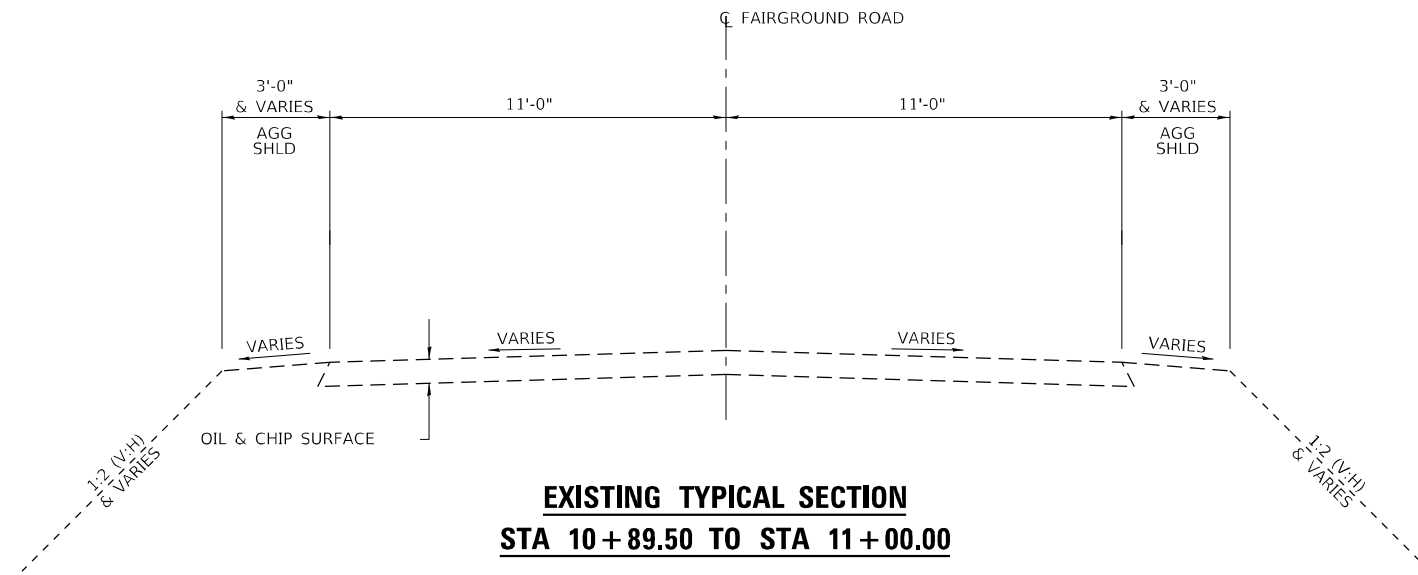
FAP 853 (IL 14) TYPICAL SECTIONS

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
853	9B-1	HAMILTON	56	12
CONTRACT NO. 78830				
ILLINOIS FED. AID PROJECT				



**EXISTING TYPICAL SECTION
STA 10+30.00 TO STA 10+89.50**



**EXISTING TYPICAL SECTION
STA 10+89.50 TO STA 11+00.00**

MODEL: PLOT
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ESCA PROJECT NO. 1359.12
PLOT SCALE = 0.1667' / in.
PLOT DATE = 10/5/2023

DESIGNED - ELH/IRC
DRAWN - IRC
CHECKED - ELH
DATE - 11/22

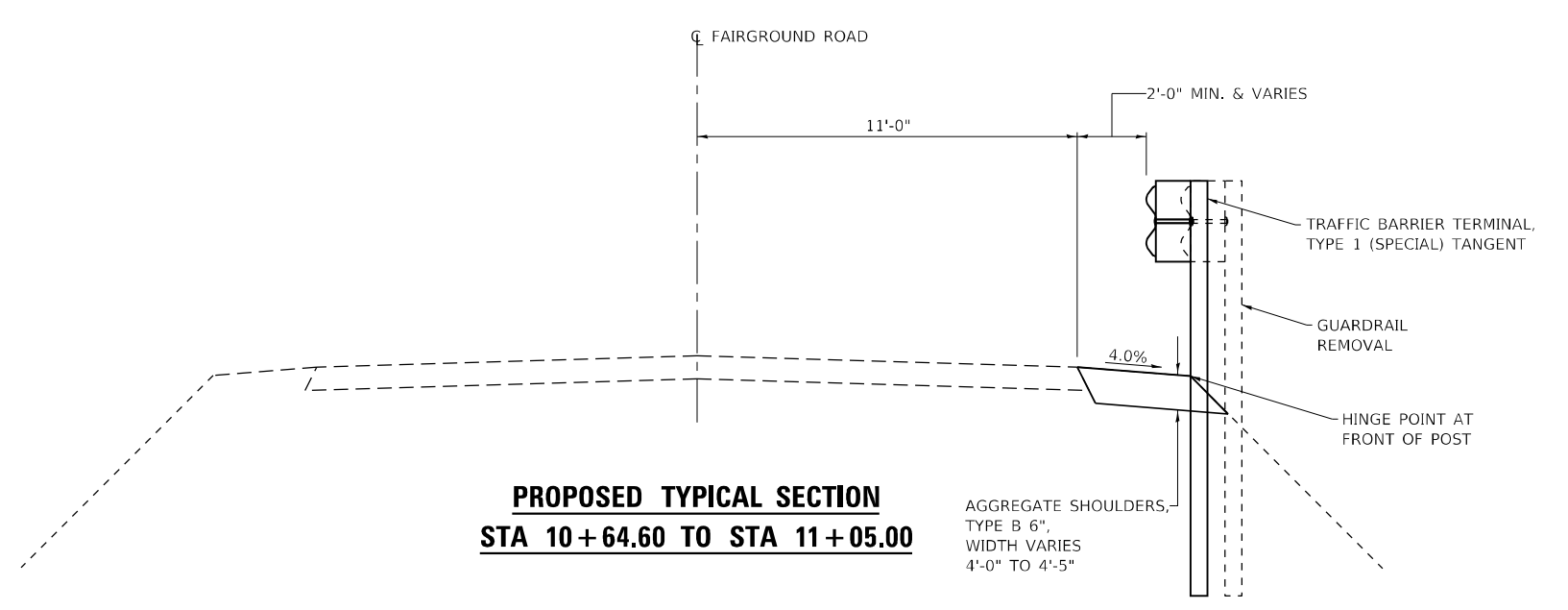
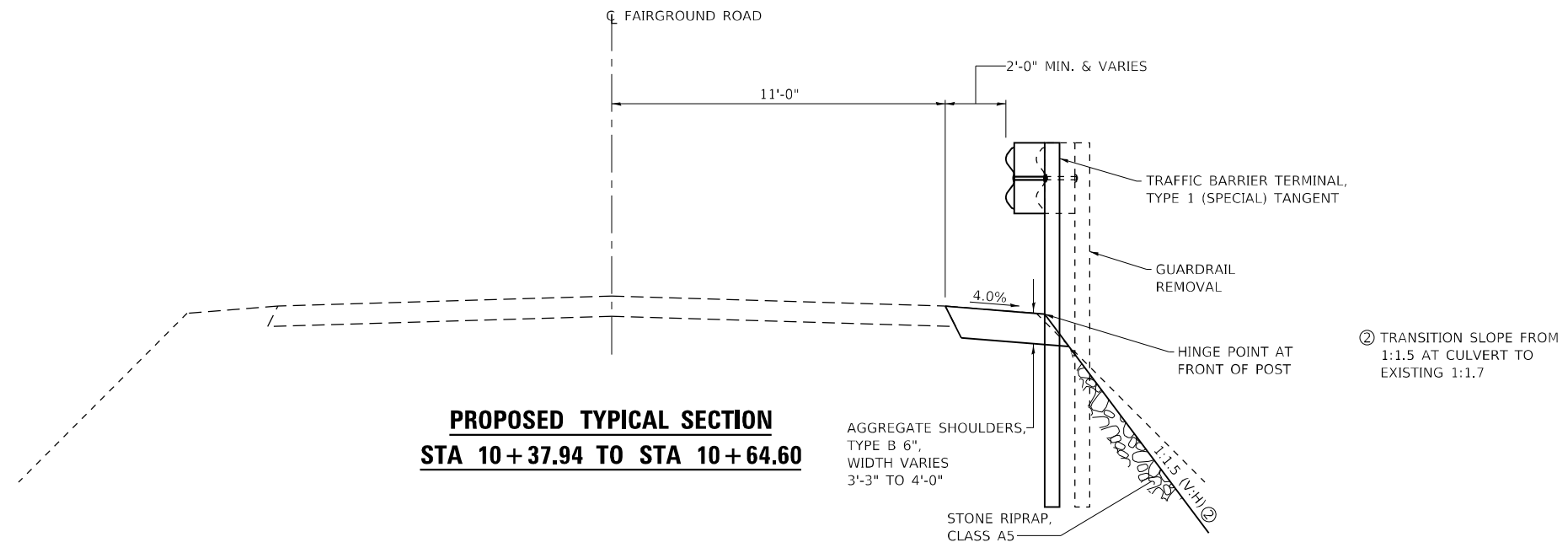
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REVISED -
REVISED -
REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

FAIRGROUND ROAD TYPICAL SECTIONS

SCALE: NONE SHEET NO. 1 OF 2 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
853	9B-1	HAMILTON	56	13
ILLINOIS			FED. AID PROJECT	



MODEL_PLOT
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PLOT SCALE = 0.1667' / in.	CHECKED - ELH	REVISED -
PLOT DATE = 10/5/2023	DATE - 07/23	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

FAIRGROUND ROAD TYPICAL SECTIONS

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
853	9B-1	HAMILTON	56	14
CONTRACT NO. 78830				
ILLINOIS FED. AID PROJECT				

EARTHWORK SCHEDULE										
LOCATION			EARTH EXCAVATION	AVERAGE SHRINKAGE FACTOR	EARTH EXCAVATION (ADJUSTED)	EMBANKMENT	EARTHWORK BALANCE		FURNISHED EXCAVATION	REMARKS
							EXCAVATION REQUIRED TO COMPLETE	EXCESS EXCAVATION		
STA	TO	STA	CU YD	%	CU YD	CU YD	CU YD	CU YD	CU YD	
194+76 LT		196+28 LT	25	25	18	35	17		17	IL 14 PRE-STAGE I
194+36 RT		196+28 RT	55	25	40	175	135		135	IL 14 STAGE I
196+84 RT		198+50 RT	30	25	22	75	53		53	IL 14 STAGE I
196+28		196+84	500	25	375			375		BOX CULVERT
196+84 LT		198+59 LT	55	25	41	65	24			IL 14 STAGE II
10+40 RT		11+05 RT	5	25	4			4		FAIRGROUND ROAD STAGE II
TOTALS			670						205	

TEMPORARY RAMP SCHEDULE	
LOCATION	TEMPORARY RAMP
	SQ YD
PRE-STAGE I	
STA 197+47.49 LT CE & STA 198+27.03 LT CE	157
TOTAL	157

SEEDING SCHEDULE							
LOCATION	SEEDING, CLASS 2	SEEDING, CLASS 7	NITROGEN FERTILIZER NUTRIENT	PHOSPHORUS FERTILIZER NUTRIENT	POTASSIUM FERTILIZER NUTRIENT	AGRICULTURAL GROUND LIMESTONE	MULCH, METHOD 2
	ACRE	ACRE	POUND	POUND	POUND	TON	ACRE
STA 194+51.40 TO 195+89.20 LT	0.08	0.08	7.2	7.2	7.2	0.16	0.16
STA 194+34.20 TO 194+80.25 RT	0.04	0.04	3.6	3.6	3.6	0.08	0.08
STA 194+80.25 TO 196+12.50 RT	0.11	0.11	9.9	9.9	9.9	0.22	0.22
STA 196+12.50 TO 196+31.20 RT	0.02	0.02	1.8	1.8	1.8	0.04	0.04
STA 10+51.50 TO 11+12.20 RT	0.03	0.03	2.7	2.7	2.7	0.06	0.06
STA 196+55.50 TO 196+87.40 LT	0.01	0.01	0.9	0.9	0.9	0.02	0.02
STA 196+87.40 TO 197+36.10 LT	0.04	0.04	3.6	3.6	3.6	0.08	0.08
STA 196+81.30 TO 197+00.00 RT	0.02	0.02	1.8	1.8	1.8	0.04	0.04
STA 197+00.00 TO 197+78.75 RT	0.05	0.05	4.5	4.5	4.5	0.10	0.10
STA 197+78.75 TO 198+80.20 RT	0.06	0.06	5.4	5.4	5.4	0.12	0.12
STA 197+59.20 TO 198+20.80 LT	0.01	0.01	0.9	0.9	0.9	0.02	0.02
STA 198+41.20 TO 198+76.70 LT	0.03	0.03	2.7	2.7	2.7	0.06	0.06
TOTALS	0.50	0.50	45	45	45	1.0	1.00

EROSION CONTROL SCHEDULE					
LOCATION	EROSION CONTROL BLANKET	TEMPORARY EROSION CONTROL SEEDING	TEMPORARY DITCH CHECKS	PERIMETER EROSION BARRIER	INLET AND PIPE PROTECTION
	SQ YD	POUND	FOOT	FOOT	EACH
STA 10+51.50 TO 11+12.20 RT	89	6			
STA 194+34.20 TO 194+80.25 RT	111	8			
STA 194+51.40 TO 195+89.20 LT	249	16			
STA 194+80.25 TO 196+12.50 RT	341	22			
STA 194+85.00 LT			14		
STA 195+00.00 RT			12		
STA 195+80.00 LT			12		
STA 196+12.50 TO 196+31.20 RT	69	4			
STA 196+31.00 RT			14		
STA 196+55.50 TO 196+87.40 LT	38	2			
STA 196+81.30 TO 197+00.00 RT	62	4			
STA 196+82.00 RT			14		
STA 196+87.40 TO 197+36.10 LT	115	8		52	
STA 197+00.00 TO 197+78.75 RT	138	10			
STA 197+40.00 RT			11		
STA 197+59.20 TO 198+20.80 LT	40	2		62	
STA 197+78.75 TO 198+80.20 RT	162	12			
STA 198+41.20 TO 198+76.70 LT	81	6			
STA 198+49.00 RT			13		
STA 198+59.00 LT					1
TOTALS	1495	100	90	114	1

PAVEMENT MARKING SCHEDULE									
LOCATION	DESCRIPTION	MODIFIED URETHANE PAVEMENT MARKING - LINE 4"		SHORT TERM PAVEMENT MARKING		SHORT TERM PAVEMENT MARKING REMOVAL	TEMPORARY PAVEMENT MARKING - LINE 4" - PAINT		PAVEMENT MARKING REMOVAL - GRINDING
		FOOT		FOOT		SQ FT	FOOT		SQ FT
		WHITE	YELLOW	WHITE	YELLOW		WHITE	YELLOW	
STAGE I									
STA 193+33.00 TO 200+00.00	CENTERLINE								60
STA 194+92.00 TO 195+84.00 LT	EDGE LINE								31
STA 196+29.50 TO 198+46.00 LT	EDGE LINE								73
STAGE II									
STA 194+81.00 TO 196+20.25 RT	EDGE LINE								47
STA 196+92.25 TO 198+21.00 RT	EDGE LINE								43
POST-STAGE II									
STA 193+33.00 TO 200+00.00	CENTERLINE		170		68	23		170	57
STA 194+81.00 TO 198+21.00 RT	EDGE LINE	340		8		3	340		113
STA 194+92.00 TO 195+84.00 LT	EDGE LINE	92		4		2	92		31
STA 196+33.00 TO 198+49.00 LT	EDGE LINE	213		8		2	213		71
SUBTOTALS		645	170	20	68		645	170	
TOTALS		815		88		30	815		526

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ESCA PROJECT NO. 1359.12	DRAWN - IRC	REVISED -
PLOT SCALE = 0.1667' / in.	CHECKED - ELH	REVISED -
PLOT DATE = 10/25/2023	DATE - 09/23	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULES OF QUANTITIES

SCALE: NONE SHEET NO. 1 OF 2 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
853	9B-1	HAMILTON	56	15
CONTRACT NO. 78830				
ILLINOIS FED. AID PROJECT				

GUARDRAIL SCHEDULE								
LOCATION	GUARDRAIL REMOVAL	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	STRONG POST GUARDRAIL ATTACHED TO CULVERT	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) FLARED	TERMINAL MARKER - DIRECT APPLIED	STEEL PLATE BEAM GUARDRAIL (SHORT RADIUS)	GUARDRAIL REFLECTORS, TYPE A
	FOOT	FOOT	FOOT	EACH	EACH	EACH	FOOT	EACH
STAGE I								
STA 195+12.54 RT TO 197+87.81 RT	251					1		
STA 195+06.25 RT								
STA 195+06.25 RT TO 195+56.25 RT		87.5		1				2
STA 195+56.25 RT TO 196+43.75 RT			25					1
STA 196+43.75 RT TO 196+68.75 RT								1
STA 196+68.75 RT TO 197+18.75 RT		50						
STA 197+18.75 RT TO 197+68.75 RT				1				
STA 197+68.75 RT						1		
STAGE II								
STA 10+89.49 RT TO 197+13.70	126							
STA 10+96.50 RT						1		
STA 10+46.50 RT TO 10+96.50 RT				1				
STA 10+46.50 RT TO 196+45.69 LT							34.5	3
STA 196+45.69 LT TO 196+70.69 LT			25					1
STA 196+70.69 LT TO 197+08.19 LT					1			
STA 197+08.19 LT						1		
TOTALS	377	137.5	50	3	1	4	34.5	8

INCIDENTAL HMA SCHEDULE			
LOCATION	INCIDENTAL HOT-MIX ASPHALT SURFACING	AGGREGATE BASE COURSE, TYPE B 8"	BITUMINOUS MATERIALS (TACK COAT)
	TON	SQ YD	POUND
STAGE II			
STA 197+47.49 LT CE & STA 198+27.03 LT CE	52	312	771
TOTALS	52	312	771

PAVEMENT REMOVAL SCHEDULE		
LOCATION	PAVEMENT REMOVAL	DRIVEWAY PAVEMENT REMOVAL
	SQ YD	SQ YD
PRE-STAGE I		
STA 10+12.50 TO 10+17.87 FAIRGROUND ROAD	34	
STAGE I		
STA 196+20.25 TO 196+38.00 RT IL 14	21	
STA 196+62.00 TO 196+92.25 RT IL 14	36	
STAGE II		
STA 196+20.25 TO 196+38.00 LT IL 14	49	
STA 196+62.00 TO 196+92.25 LT IL 14	66	
STA 197+47.49 LT CE & STA 198+27.03 LT CE		300
TOTALS	206	300

SHOULDER SCHEDULE					
LOCATION	AGGREGATE SHOULDERS, TYPE B 6"	PORTLAND CEMENT CONCRETE SHOULDERS 10"	TIE BARS 3/4"	PROTECTIVE COAT	SHOULDER RUMBLE STRIPS, 8 INCH
	SQ YD	SQ YD	EACH	SQ YD	FOOT
PRE-STAGE I					
STA 194+90.00 TO 196+38.00 LT		83		83	
STA 196+62.00 TO 198+47.83 LT		104		104	
STAGE I					
STA 194+80.25 TO 198+33.00 RT		337		337	
STA 196+20.25 TO 196+92.25 RT			24		
STAGE II					
STA 196+20.25 TO 197+22.70 LT		136		136	
STA 196+20.25 TO 196+92.25 LT			33		
STA 10+37.94 TO 11+05.00 RT	28				
POST-STAGE II					
STA 194+80.25 TO 198+33.00 RT					353
STA 194+90.00 TO 195+70.00 LT					80
STA 196+42.00 TO 197+22.00 LT					80
TOTALS	28	660	57	660	513

PCC PAVEMENT SCHEDULE				
LOCATION	SUBBASE GRANULAR MATERIAL, TYPE B 4"	WELDED WIRE REINFORCEMENT	PORTLAND CEMENT CONCRETE PAVEMENT 10"	PROTECTIVE COAT
	SQ YD	SQ YD	SQ YD	SQ YD
STAGE I				
STA 196+20.25 TO 196+29.25 RT	95	83	83	83
STAGE II				
STA 196+20.25 TO 196+29.25 LT	129	117	117	117
TOTALS	224	200	200	200

STORM SEWER SCHEDULE					
LOCATION	STORM SEWERS, CLASS A, TYPE 1 30"	PIPE CULVERT REMOVAL	TRENCH BACKFILL	MANHOLES, TYPE A, 5'-DIAMETER, TYPE 1 FRAME, OPEN LID	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 30"
	FOOT	FOOT	CU YD	EACH	EACH
STA 196+50.93 TO 197+00.76 LT		51			
STA 196+72.00, 40.78' LT					1
STA 196+72.00 TO 197+22.70 LT	44				
STA 197+06.86 TO 198+55.00 LT		150			
STA 197+22.70, 29.76' LT				1	
STA 197+22.70 TO 198+59.22 LT	129		37		
STA 198+59.22, 22.53' LT					1
TOTALS	173	201	37	1	2

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USER NAME = IRC
ESCA PROJECT NO. 1359.12
PLOT SCALE = 0.1667' / in.
PLOT DATE = 10/5/2023

DESIGNED - IRC
DRAWN - IRC
CHECKED - ELH
DATE - 09/23

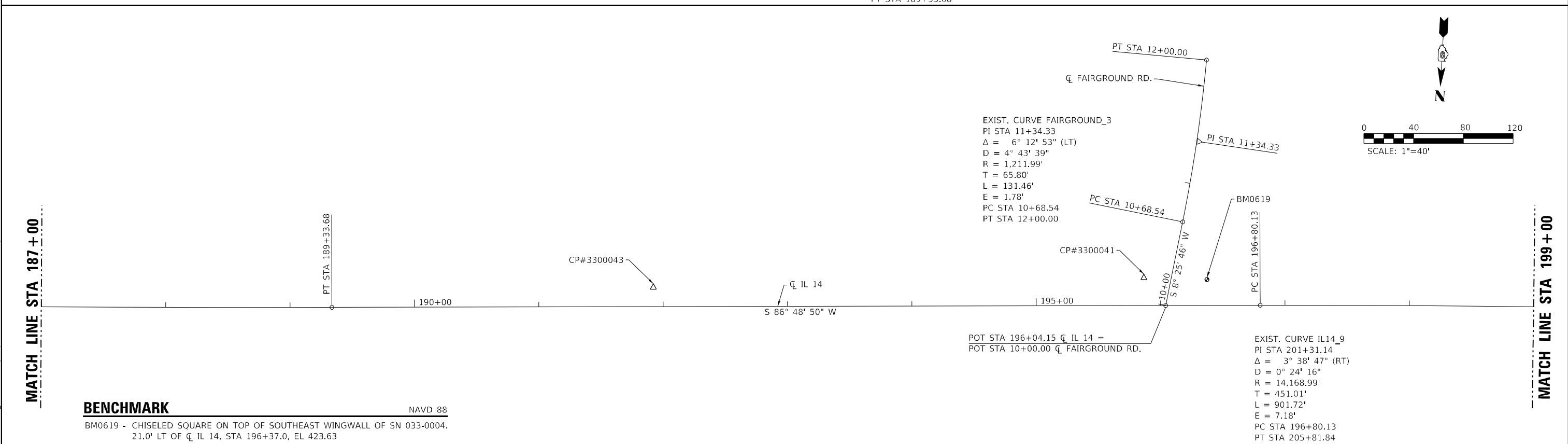
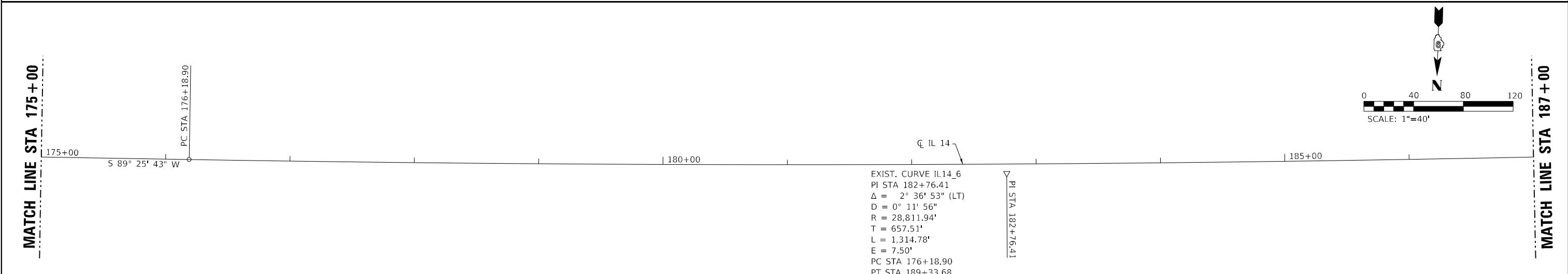
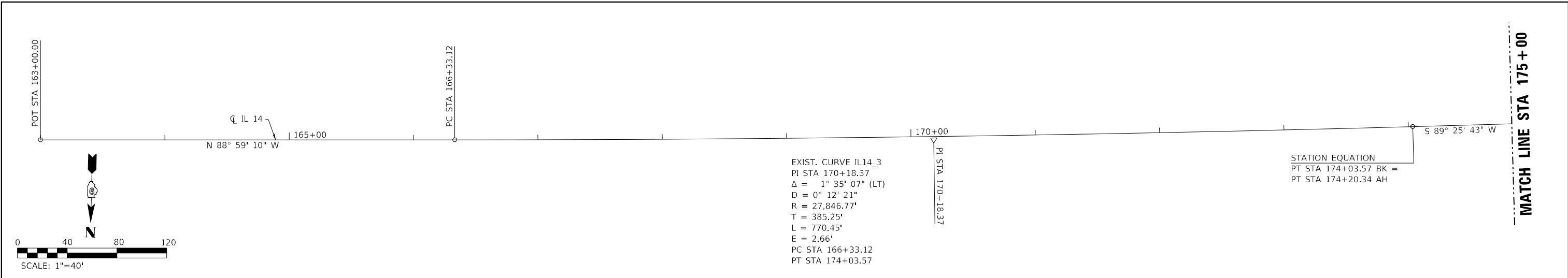
REVISED -
REVISED -
REVISED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULES OF QUANTITIES

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
853	9B-1	HAMILTON	56	16
CONTRACT NO. 78830				
ILLINOIS FED. AID PROJECT				



BENCHMARK

NAVD 88
 BM0619 - CHISELED SQUARE ON TOP OF SOUTHEAST WINGWALL OF SN 033-0004.
 21.0' LT OF \bar{C} IL 14, STA 196+37.0, EL 423.63

MODEL_PLOT
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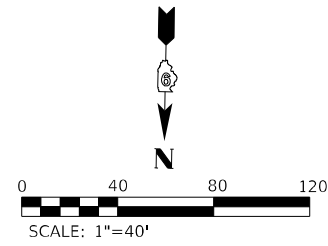
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PLOT DATE = 10/5/2023	DATE - 03/23	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

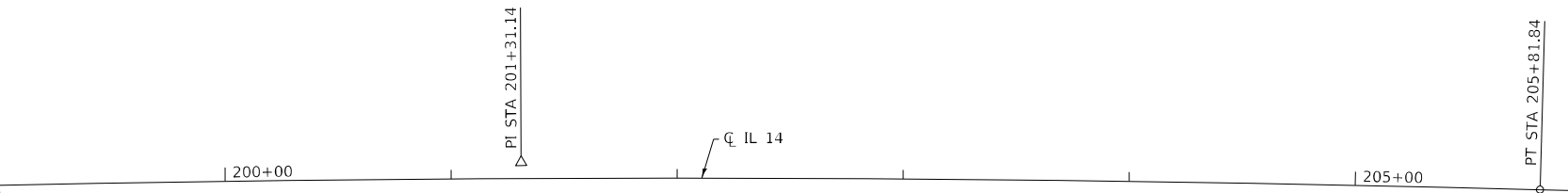
ALIGNMENT, TIES & BENCHMARKS

SCALE: 1"=40' SHEET NO. 1 OF 2 SHEETS STA. 163+00.00 TO STA. 199+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
853	9B-1	HAMILTON	56	17
CONTRACT NO. 78830				
ILLINOIS FED. AID PROJECT				

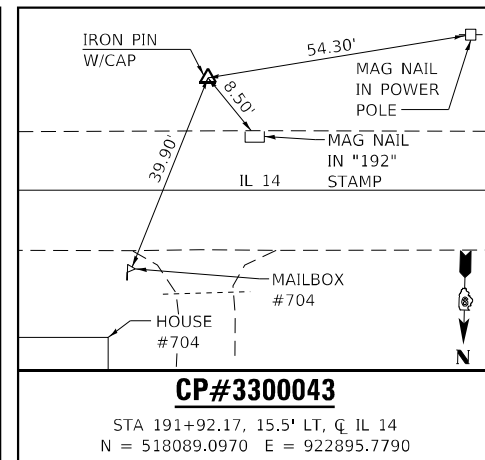
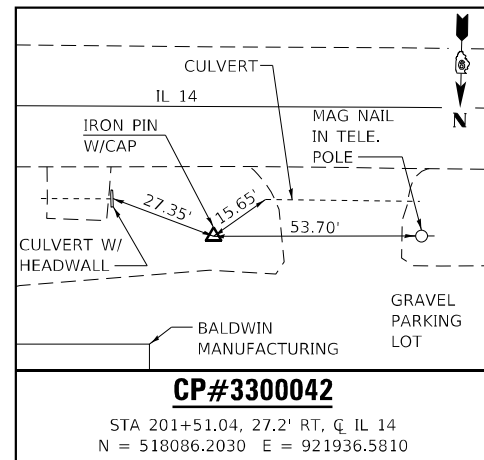
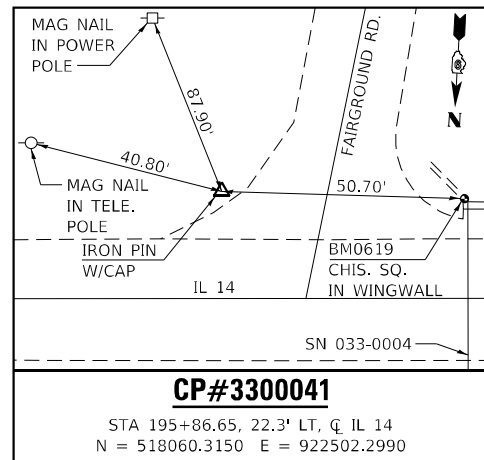
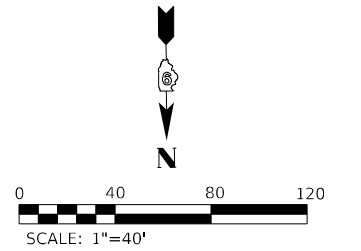
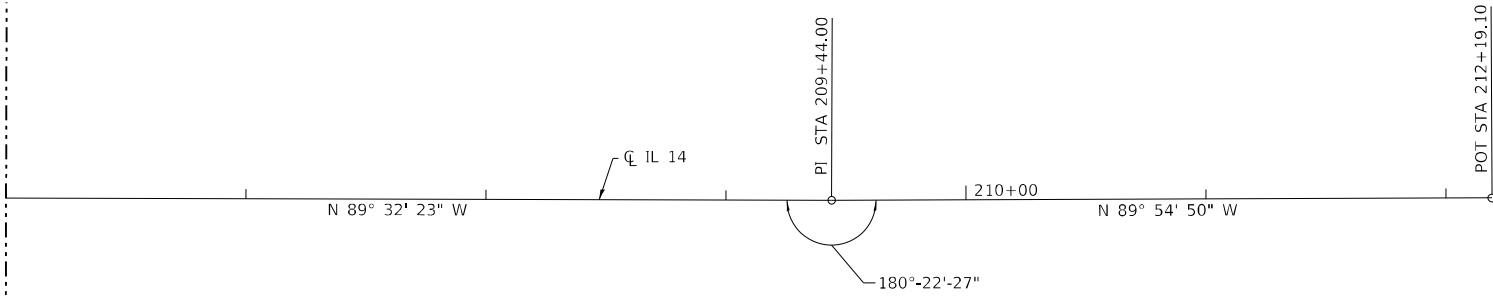


MATCH LINE STA 199+00



MATCH LINE STA 206+00

MATCH LINE STA 206+00



MODEL_PLOT FILE NAME: Y:\PROJECTS\1359-12_78830\CADD\Highway\CADD_Sheets\0978830-ht-s302.dgn



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PLOT SCALE = 0.1667' / in.	CHECKED - ELH	REVISED -
PLOT DATE = 10/5/2023	DATE - 03/23	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ALIGNMENT, TIES & BENCHMARKS

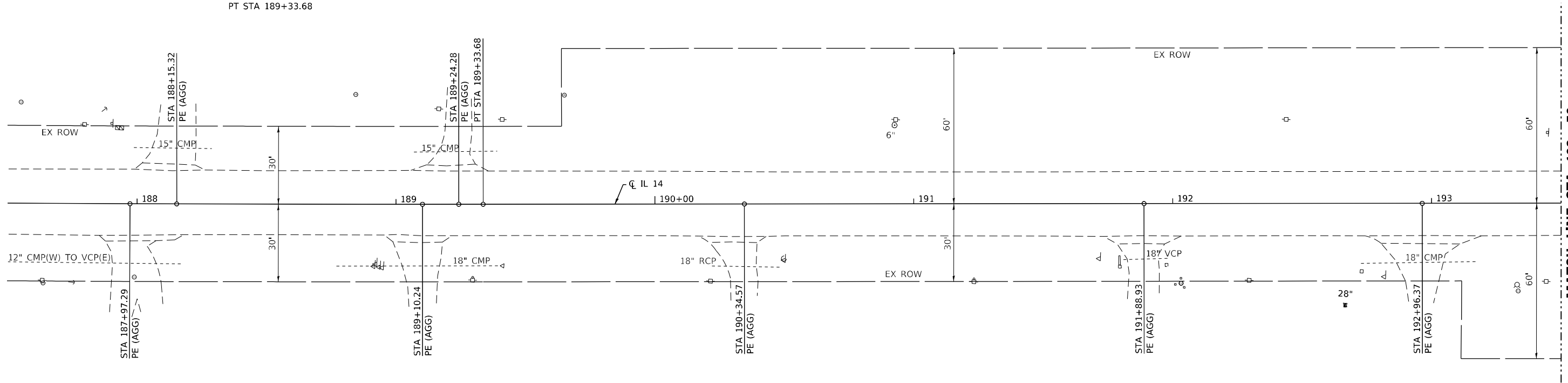
SCALE: 1"=40' SHEET NO. 2 OF 2 SHEETS STA. 199+00.00 TO STA. 212+19.10

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
853	9B-1	HAMILTON	56	18
CONTRACT NO. 78830				
ILLINOIS FED. AID PROJECT				

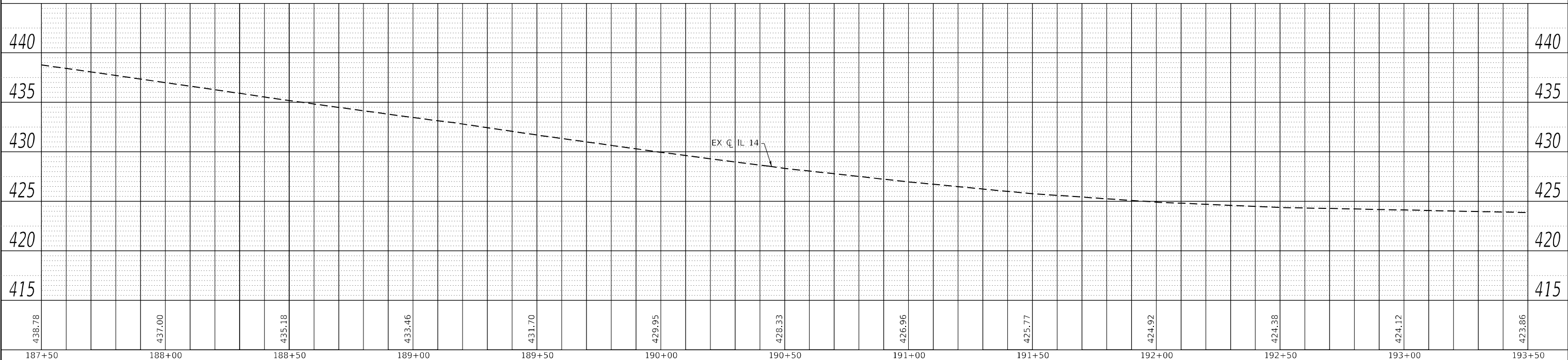
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 PI STA 182+76.41
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 $D = 0^\circ 11' 56"$
 $R = 28,811.94'$
 $T = 657.51'$
 $L = 1,314.78'$
 $E = 7.50'$
 $e = \text{NONE}$
 PC STA 176+18.90
 PT STA 189+33.68

PLAN	SURVEYED	BY	DATE
	PLOTTED		
	ALIGNED		
	CHECKED		
	CADD FILE NAME		
	NO.		

PROFILE	SURVEYED	BY	DATE
	PLOTTED		
	GRADES CHECKED		
	STRUCTURE NOTATIONS		
	NO.		



MATCH LINE STA 193 + 50
 SEE SHEET 2 FOR CONT.



MODEL: Defaul
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 PLOT SCALE = 40,0000 * / in.
 PLOT DATE = 10/5/2023

DESIGNED - ELH/IRC
 DRAWN - JPC/IRC
 CHECKED - ELH
 DATE - 07/23

REVISED -
 REVISED -
 REVISED -
 REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

FAP 853 (IL 14) PLAN AND PROFILE
 SCALE: AS SHOWN SHEET 1 OF 3 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
853	9B-1	HAMILTON	56	19
CONTRACT NO. 78830				
ILLINOIS FED. AID PROJECT				

PLAN	SURVEYED	DATE
	PLOTTED	
	ALIGNED	
	CHECKED	
	NO. _____	
	DATE _____	

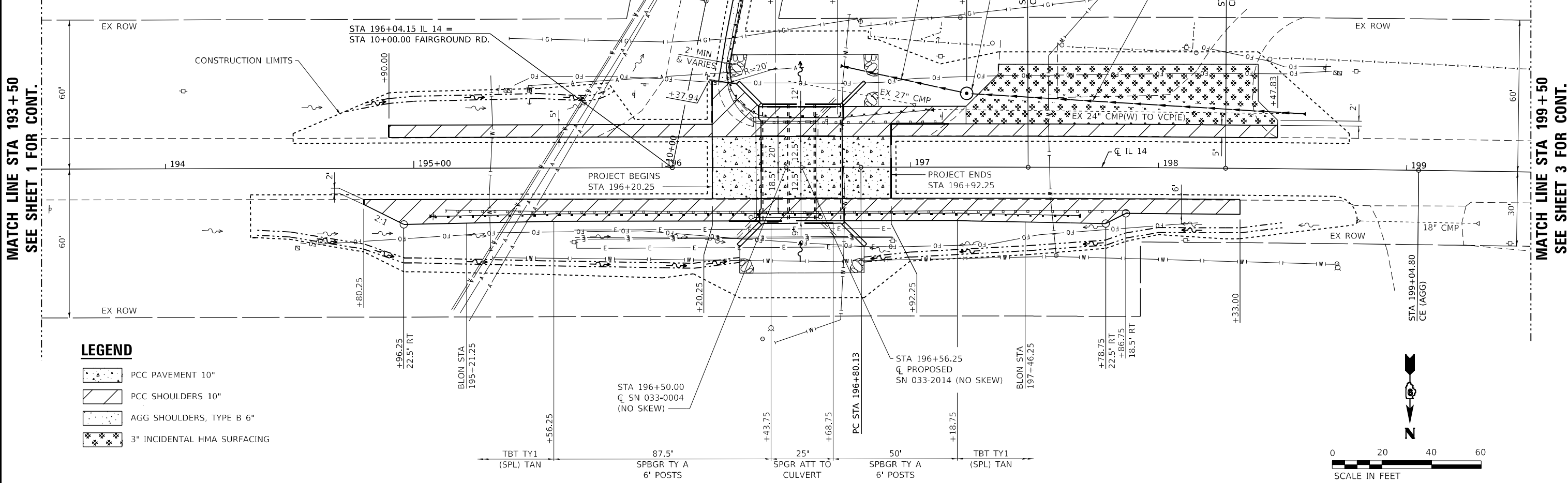
PROFILE	SURVEYED	DATE
	PLOTTED	
	GRADES	
	CHECKED	
	NO. _____	
	DATE _____	

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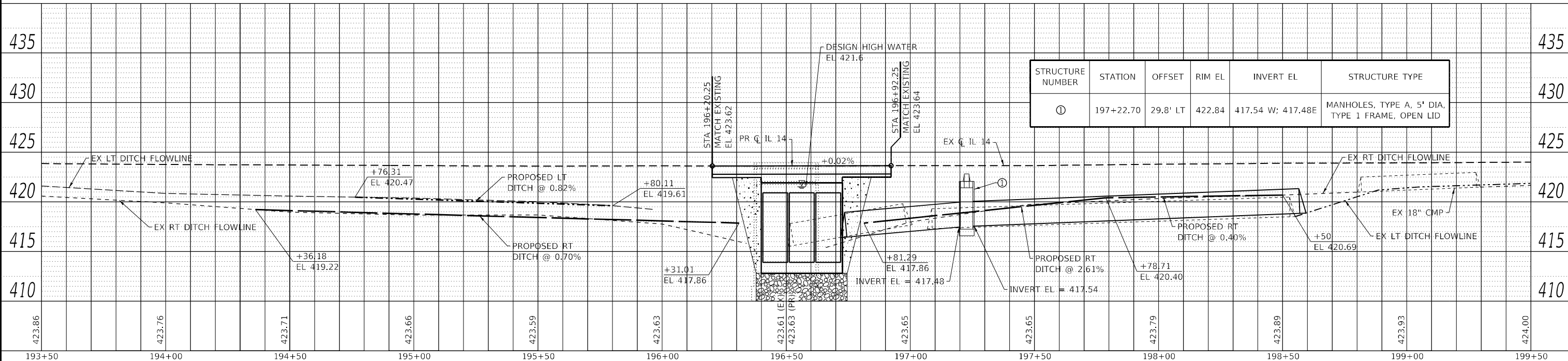
MATCH LINE STA 193+50
 SEE SHEET 1 FOR CONT.

MATCH LINE STA 199+50
 SEE SHEET 3 FOR CONT.

EXIST. CURVE FAIRGROUND_3
 PI STA 11+34.33
 $\Delta = 6^\circ 12' 53''$ (LT)
 $D = 4^\circ 43' 39''$
 $R = 1,211.99'$
 $T = 65.80'$
 $L = 131.46'$
 $e = 1.78'$
 $e = \text{NONE}$
 PC STA 10+68.54
 PT STA 12+00.00



- LEGEND**
- PCC PAVEMENT 10'
 - PCC SHOULDERS 10'
 - AGG SHOULDERS, TYPE B 6'
 - 3" INCIDENTAL HMA SURFACING



STRUCTURE NUMBER	STATION	OFFSET	RIM EL	INVERT EL	STRUCTURE TYPE
①	197+22.70	29.8' LT	422.84	417.54 W; 417.48E	MANHOLES, TYPE A, 5' DIA, TYPE 1 FRAME, OPEN LID



USER NAME = IRC	DESIGNED - ELH/IRC	REVISED -
ESCA PROJECT NO. 1359.12	DRAWN - JPC/IRC/NHC	REVISED -
PLOT SCALE = 40,0000' / in.	CHECKED - ELH	REVISED -
PLOT DATE = 10/5/2023	DATE - 09/23	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

FAP 853 (IL 14) PLAN AND PROFILE

SCALE: AS SHOWN SHEET 2 OF 3 SHEETS STA. TO STA.

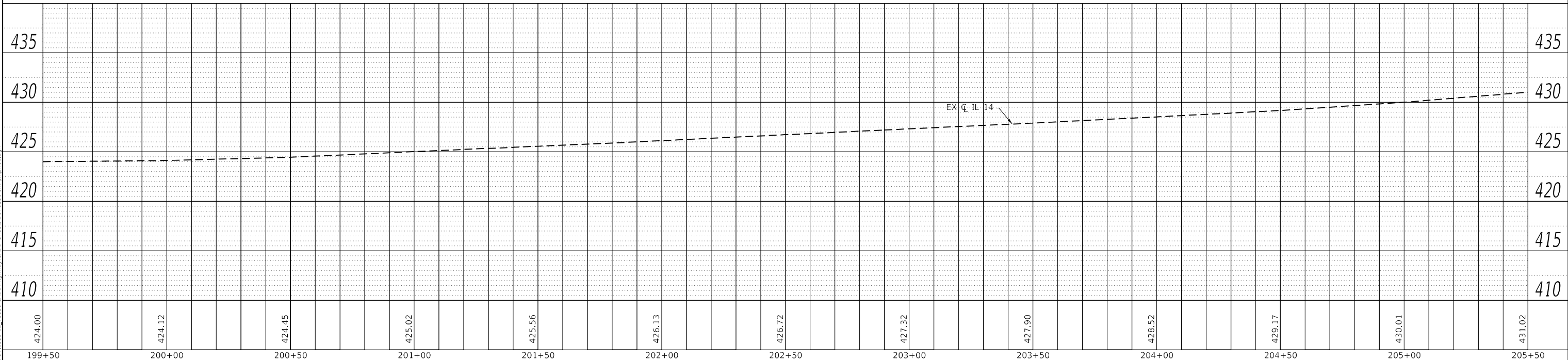
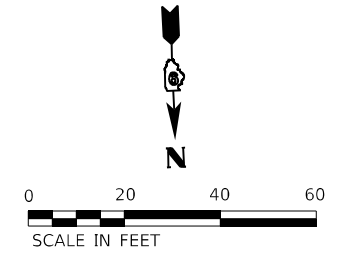
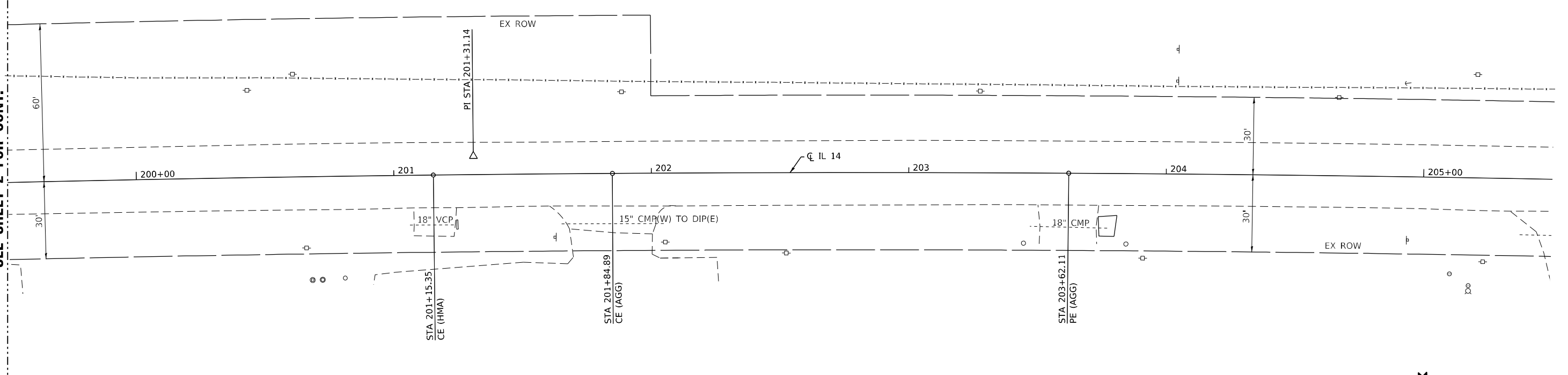
F.A.P. RTE. 853	SECTION 9B-1	COUNTY HAMILTON	TOTAL SHEETS 56	SHEET NO. 20
CONTRACT NO. 78830				ILLINOIS FED. AID PROJECT

PLAN	SURVEYED	BY	DATE
	PLOTTED		
	ALIGNED		
	CHECKED		
	CADD FILE NAME		
	NO.		

PROFILE	SURVEYED	BY	DATE
	PLOTTED		
	GRADES CHECKED		
	STRUCTURE NOTATIONS		
	NO.		

EXIST. CURVE IL14_9
 PI STA 201+31.14
 $\Delta = 3^\circ 38' 47''$ (RT)
 $D = 0^\circ 24' 16''$
 $R = 14,168.99'$
 $T = 451.01'$
 $L = 901.72'$
 $e = 7.18'$
 $e = \text{NONE}$
 PC STA 196+80.13
 PT STA 205+81.84

MATCH LINE STA 199 + 50
 SEE SHEET 2 FOR CONT.



MODEL: Default
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USER NAME = IRC
 ESCA PROJECT NO. 1359.12
 PLOT SCALE = 40,0000 * / in.
 PLOT DATE = 10/5/2023

DESIGNED - ELH/IRC
 DRAWN - JPC/IRC
 CHECKED - ELH
 DATE - 07/23

REVISED -
 REVISED -
 REVISED -
 REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

FAP 853 (IL 14) PLAN AND PROFILE

SCALE: AS SHOWN SHEET 3 OF 3 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
853	9B-1	HAMILTON	56	21
CONTRACT NO. 78830				
ILLINOIS FED. AID PROJECT				

**STAGE I
SCHEDULE OF QUANTITIES**

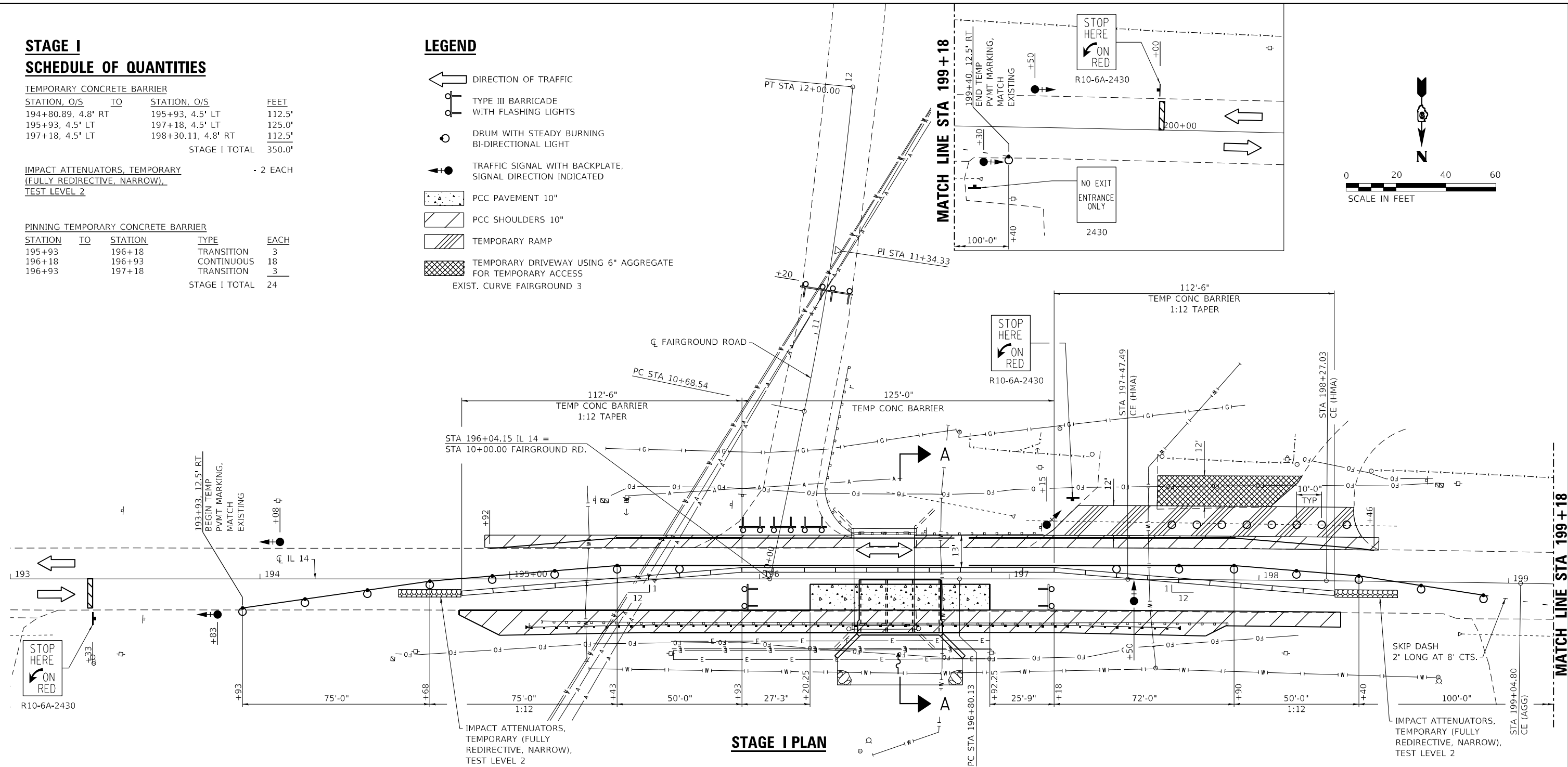
TEMPORARY CONCRETE BARRIER			
STATION, O/S	TO	STATION, O/S	FEET
194+80.89, 4.8' RT		195+93, 4.5' LT	112.5'
195+93, 4.5' LT		197+18, 4.5' LT	125.0'
197+18, 4.5' LT		198+30.11, 4.8' RT	112.5'
STAGE I TOTAL			350.0'

IMPACT ATTENUATORS, TEMPORARY (FULLY REDIRECTIVE, NARROW), TEST LEVEL 2 - 2 EACH

PINNING TEMPORARY CONCRETE BARRIER				
STATION	TO	STATION	TYPE	EACH
195+93		196+18	TRANSITION	3
196+18		196+93	CONTINUOUS	18
196+93		197+18	TRANSITION	3
STAGE I TOTAL				24

LEGEND

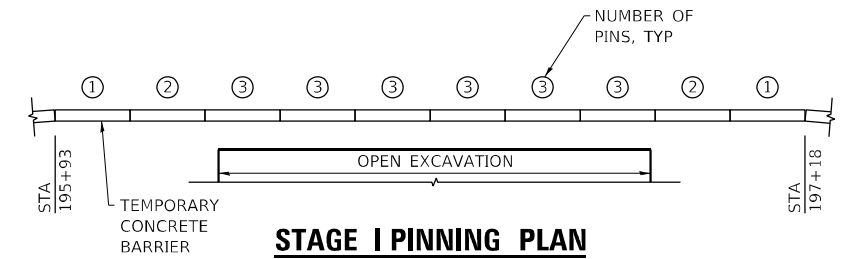
- DIRECTION OF TRAFFIC
- TYPE III BARRICADE WITH FLASHING LIGHTS
- DRUM WITH STEADY BURNING BI-DIRECTIONAL LIGHT
- TRAFFIC SIGNAL WITH BACKPLATE, SIGNAL DIRECTION INDICATED
- PCC PAVEMENT 10"
- PCC SHOULDERS 10"
- TEMPORARY RAMP
- TEMPORARY DRIVEWAY USING 6" AGGREGATE FOR TEMPORARY ACCESS
- EXIST. CURVE FAIRGROUND 3



STAGE I PLAN

GENERAL NOTES

- THE PRE-STAGE I CONSTRUCTION SHALL INCLUDE THE CONSTRUCTION OF PCC SHOULDERS ALONG THE EASTBOUND LANE (PRIOR TO PLACING THE SIGNALS IN OPERATION).
- FAIRGROUND ROAD SHALL BE CLOSED AT IL-14 FOR THE DURATION OF CONSTRUCTION. TYPE III BARRICADES SHALL BE USED AS SHOWN ON HIGHWAY STANDARD 701901, COST INCLUDED IN TRAFFIC CONTROL AND PROTECTION, STANDARD BLR 21.
- CONSTRUCT THREE RUMBLE STRIPS IN EACH DIRECTION ON IL 14.
- ALL TRAFFIC SIGNALS SHOWN ARE INCLUDED IN TEMPORARY BRIDGE TRAFFIC SIGNALS - 1 EACH.
- TEMPORARY BRIDGE TRAFFIC SIGNALS SHALL BE A 3-PHASE SIGNAL WITH ACTUATION PROVIDED FOR COMMERCIAL ENTRANCES AT STA 197+47.49.
- THE ADDITIONAL DETECTOR LOOPS FOR COMMERCIAL ENTRANCES ARE INCLUDED IN TEMPORARY BRIDGE TRAFFIC SIGNALS - 1 EACH.
- ADVANCE WIDTH RESTRICTION WARNING SHALL BE INCLUDED IN THE COST OF STANDARD 701321.
- THE DIMENSION SHOWN ON THE WIDTH RESTRICTION SIGN (W12-I102(0)-48) SHOWN ON STANDARD 701321 AND ON THE ADVANCE WARNING SIGN (W12-I103) SHOWN ON THE FOLLOWING SHEET SHALL BE 11'-6" FOR STAGE I CONSTRUCTION.
- ANY TIME THE CONCRETE BARRIER IS NOT IN THE PROPER POSITION, FLAGGERS SHALL BE IN PLACE TO CONTROL TRAFFIC. THE TEMPORARY TRAFFIC SIGNALS SHALL BE SET TO FLASH ALL RED.
- THE CENTERLINE PAVEMENT MARKING SHOULD BE REMOVED BETWEEN THE STOP BAR AND THE IMPACT ATTENUATORS.
- THE STAGE I CONSTRUCTION SHALL INCLUDE COMPLETION OF THE EARTHWORK, PCC PAVEMENT, GUARDRAIL, TEMPORARY RAMPS, TEMPORARY DRIVEWAY AND PCC SHOULDERS AS REFERENCED ON THIS SHEET AND DESCRIBED IN DETAIL ON THE PLAN AND PROFILE SHEETS.
- SEE HIGHWAY STANDARD 701321 FOR ADDITIONAL DETAILS. THE COST FOR ADDITIONAL ITEMS SHOWN ON THIS SHEET IS INCLUDED IN THE PRICE FOR TRAFFIC CONTROL AND PROTECTION, STANDARD 701321.



STAGE I PINNING PLAN

MODEL PLOT FILE NAME: Y:\DOT\1359-12-78830\CADD\Highway\CADD_Sheets\DP78830-shi-stage1ng01.dgn



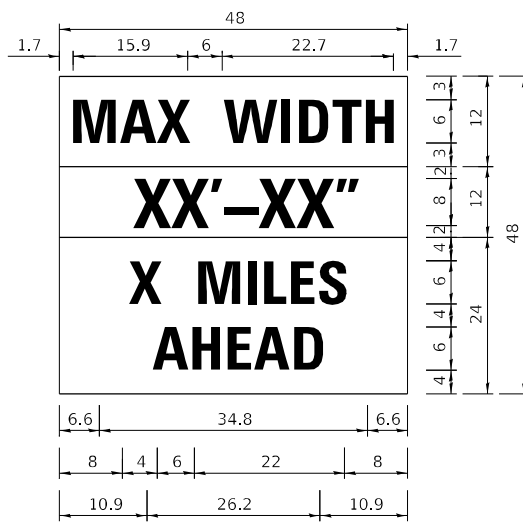
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ESCA PROJECT NO. 1359.12	DRAWN - IRC	REVISED -
PLOT SCALE = 0.1667' / in.	CHECKED - ELH	REVISED -
PLOT DATE = 10/5/2023	DATE - 09/23	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

PRE-STAGE I & STAGE I TRAFFIC CONTROL

SCALE: AS SHOWN SHEET 1 OF 1 SHEETS STA. 193+00.00 TO STA. 200+50.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
853	9B-1	HAMILTON	56	22
CONTRACT NO. 78830				
ILLINOIS FED. AID PROJECT				



NOTE: THIS SIGN SHALL BE LOCATED AS DIRECTED BY THE ENGINEER. ONE SIGN SHALL BE PROVIDED FOR EACH APPROACH TO THE SITE.

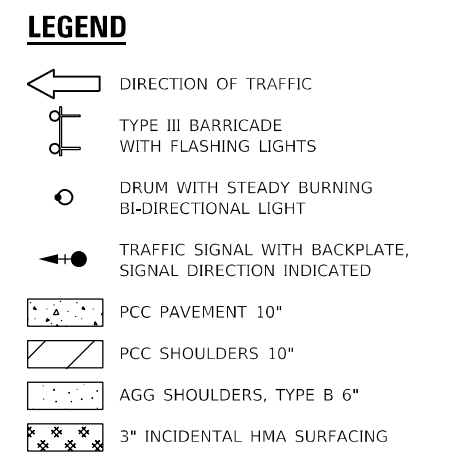
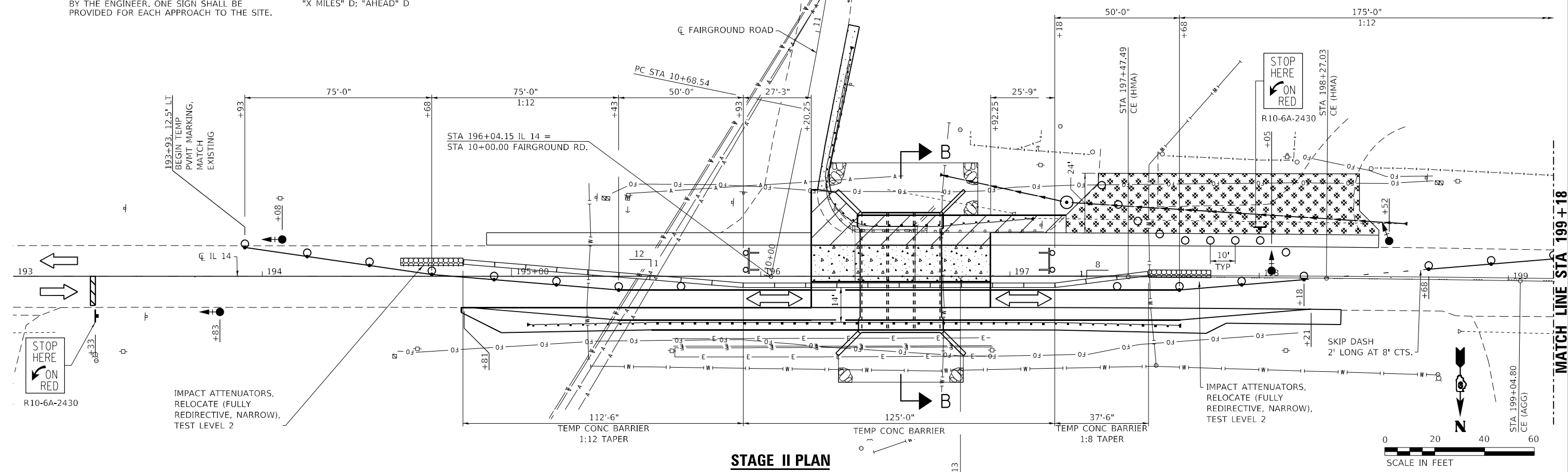
W12-I103
 W12-I103 (Width is 8D);
 No border, Black on White;
 "MAX WIDTH" D;
 No border, Black on Orange;
 "XX'-XX'" D;
 No border, Black on White;
 "X MILES" D; "AHEAD" D

STAGE II SCHEDULE OF QUANTITIES

RELOCATE TEMPORARY CONCRETE BARRIER			
STATION, O/S	TO	STATION, O/S	FEET
194+80.89, 4.8' LT		195+93, 4.5' RT	112.5'
195+93, 4.5' RT		197+18, 4.5' RT	125.0'
197+18, 4.5' RT		197+55.5, 0.2' LT	37.5'
STAGE II TOTAL			275.0'

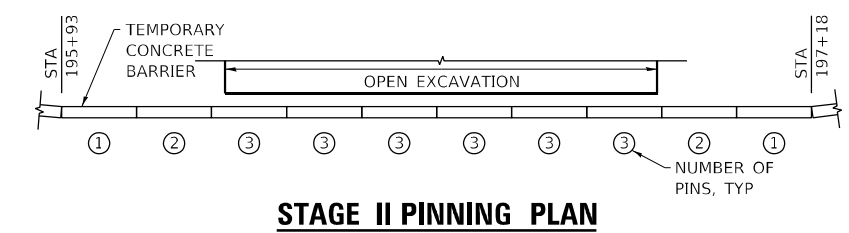
IMPACT ATTENUATORS, RELOCATE (FULLY REDIRECTIVE, NARROW), TEST LEVEL 2 - 2 EACH

PINNING TEMPORARY CONCRETE BARRIER				
STATION	TO	STATION	TYPE	EACH
195+93		196+18	TRANSITION	3
196+18		196+93	CONTINUOUS	18
196+93		197+18	TRANSITION	3
EXIST. CURVE FAIRGROUND 3				24
STAGE II TOTAL				24



GENERAL NOTES

- ADVANCE WIDTH RESTRICTION WARNING SHALL BE INCLUDED IN THE COST OF STANDARD 701321.
- THE DIMENSION SHOWN ON THE WIDTH RESTRICTION SIGN (W12-I102(0)-48) SHOWN ON STANDARD 701321 AND ON THE ADVANCE WARNING SIGN (W12-I103) SHOWN 12'-6" FOR STAGE II CONSTRUCTION.
- TEMPORARY BRIDGE TRAFFIC SIGNALS SHALL BE A 3-PHASE SIGNAL WITH ACTUATION PROVIDED FOR COMMERCIAL ENTRANCES AT STA 198+27.03.
- ANY TIME THE CONCRETE BARRIER IS NOT IN THE PROPER POSITION, FLAGGERS SHALL BE IN PLACE TO CONTROL TRAFFIC, THE TEMPORARY TRAFFIC SIGNALS SHALL BE SET TO FLASH ALL RED.
- THE STAGE II CONSTRUCTION SHALL INCLUDE COMPLETION OF THE EARTHWORK, PCC PAVEMENT, GUARDRAIL, STORM SEWER, HMA DRIVEWAY, AND PCC SHOULDERS AS REFERENCED ON THIS SHEET AND DESCRIBED IN DETAIL ON THE PLAN AND PROFILE SHEETS.
- SEE HIGHWAY STANDARD 701321 FOR ADDITIONAL DETAILS. THE COST FOR ADDITIONAL ITEMS SHOWN ON THIS SHEET IS INCLUDED IN THE PRICE FOR TRAFFIC CONTROL AND PROTECTION, STANDARD 701321.



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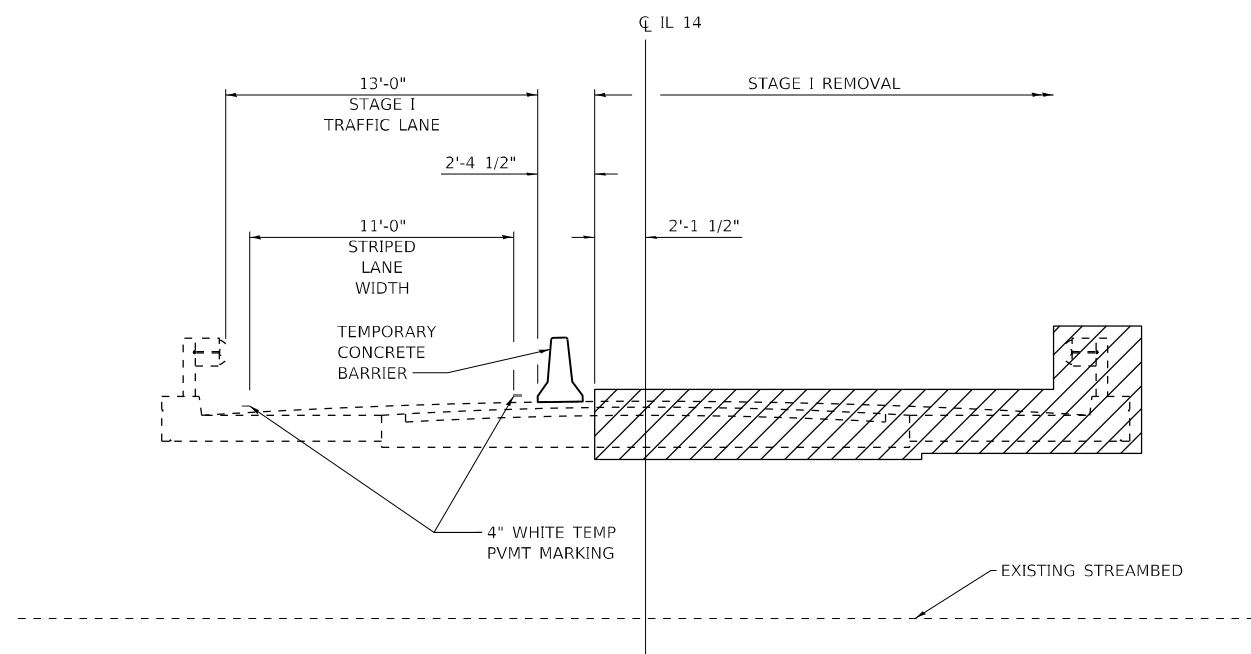
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ESCA PROJECT NO. 1359.12	DRAWN - IRC	REVISED -
PLOT SCALE = 0.1667' / in.	CHECKED - ELH	REVISED -
PLOT DATE = 10/5/2023	DATE - 09/23	REVISED -

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

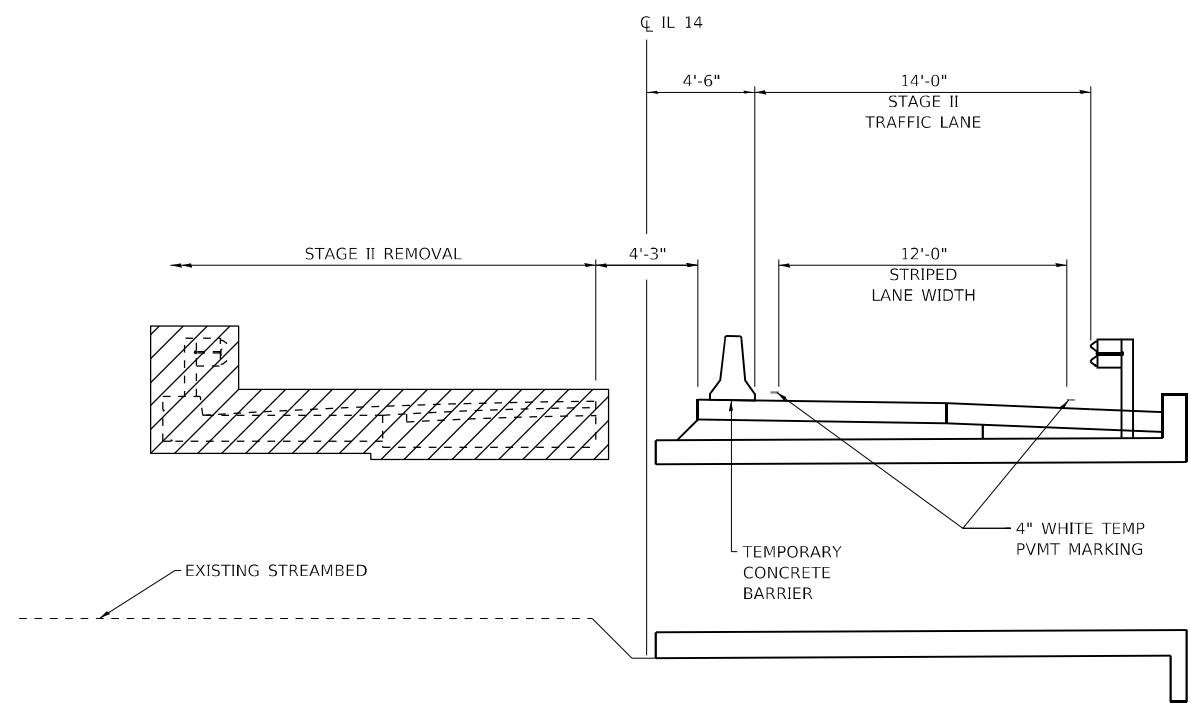
STAGE II TRAFFIC CONTROL

SCALE: AS SHOWN SHEET 1 OF 1 SHEETS STA. 193+00.00 TO STA. 200+50.00

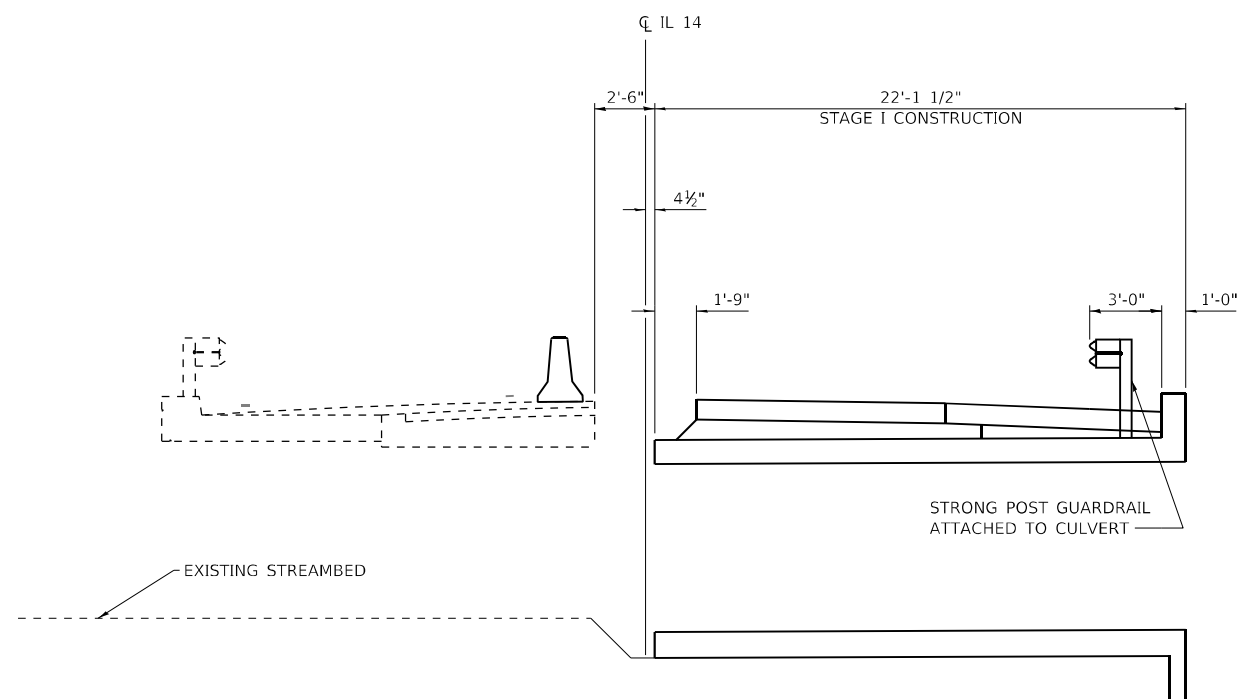
F.A.P. RTE. 853	SECTION 9B-1	COUNTY HAMILTON	TOTAL SHEETS 56	SHEET NO. 23
CONTRACT NO. 78830				
ILLINOIS FED. AID PROJECT				



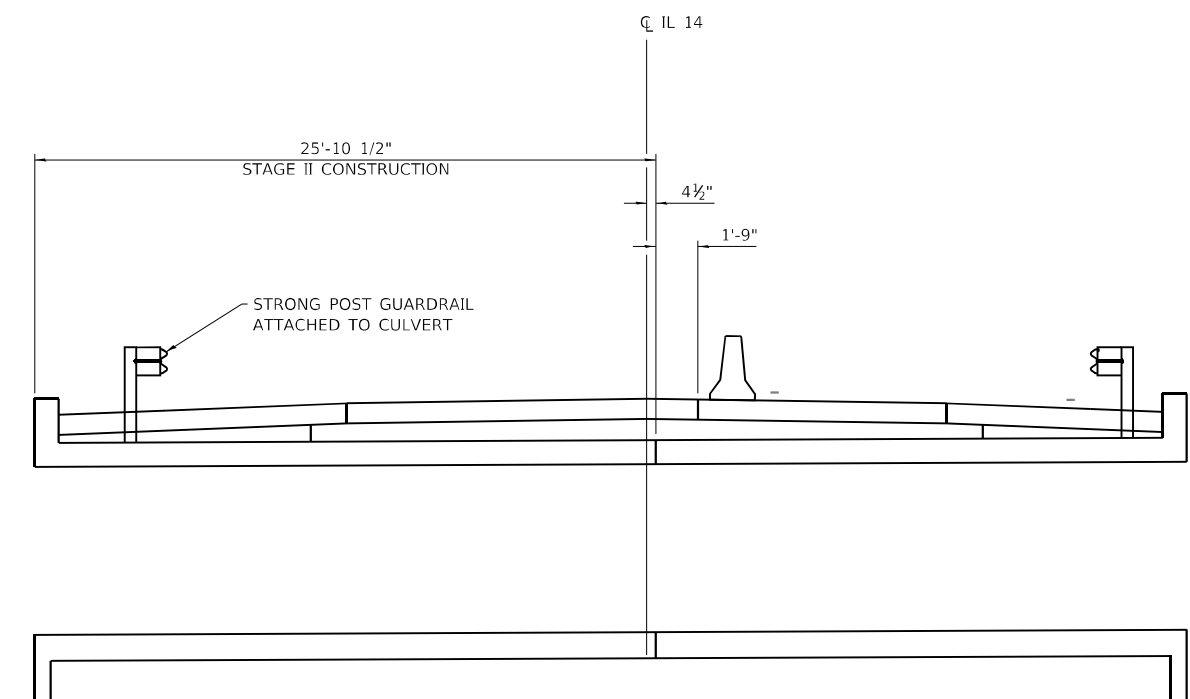
**SECTION A-A
REMOVAL**



**SECTION B-B
REMOVAL**



**SECTION A-A
CONSTRUCTION**



**SECTION B-B
CONSTRUCTION**

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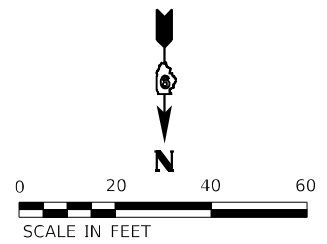
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PLOT DATE = 10/5/2023	DATE - 07/23	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

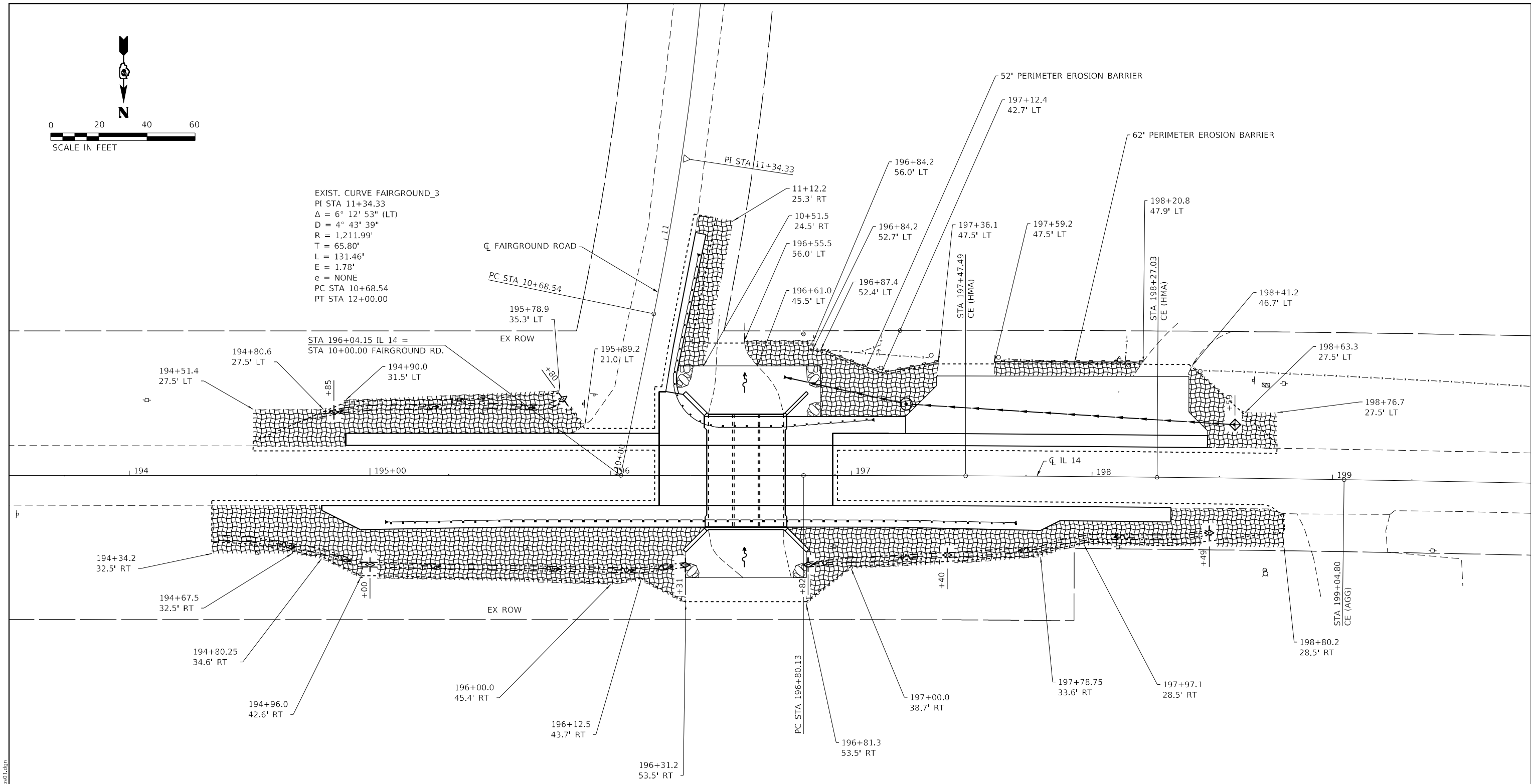
STAGE CONSTRUCTION SECTIONS

SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
853	9B-1	HAMILTON	56	24
CONTRACT NO. 78830				
ILLINOIS FED. AID PROJECT				



EXIST. CURVE FAIRGROUND_3
 PI STA 11+34.33
 $\Delta = 6^\circ 12' 53''$ (LT)
 $D = 4^\circ 43' 39''$
 $R = 1,211.99'$
 $T = 65.80'$
 $L = 131.46'$
 $E = 1.78'$
 $e = \text{NONE}$
 PC STA 10+68.54
 PT STA 12+00.00



LEGEND

- EROSION CONTROL BLANKET
- CONSTRUCTION LIMITS
- TEMPORARY DITCH CHECK
- INLET AND PIPE PROTECTION
- PERIMETER EROSION BARRIER

MODEL: Default
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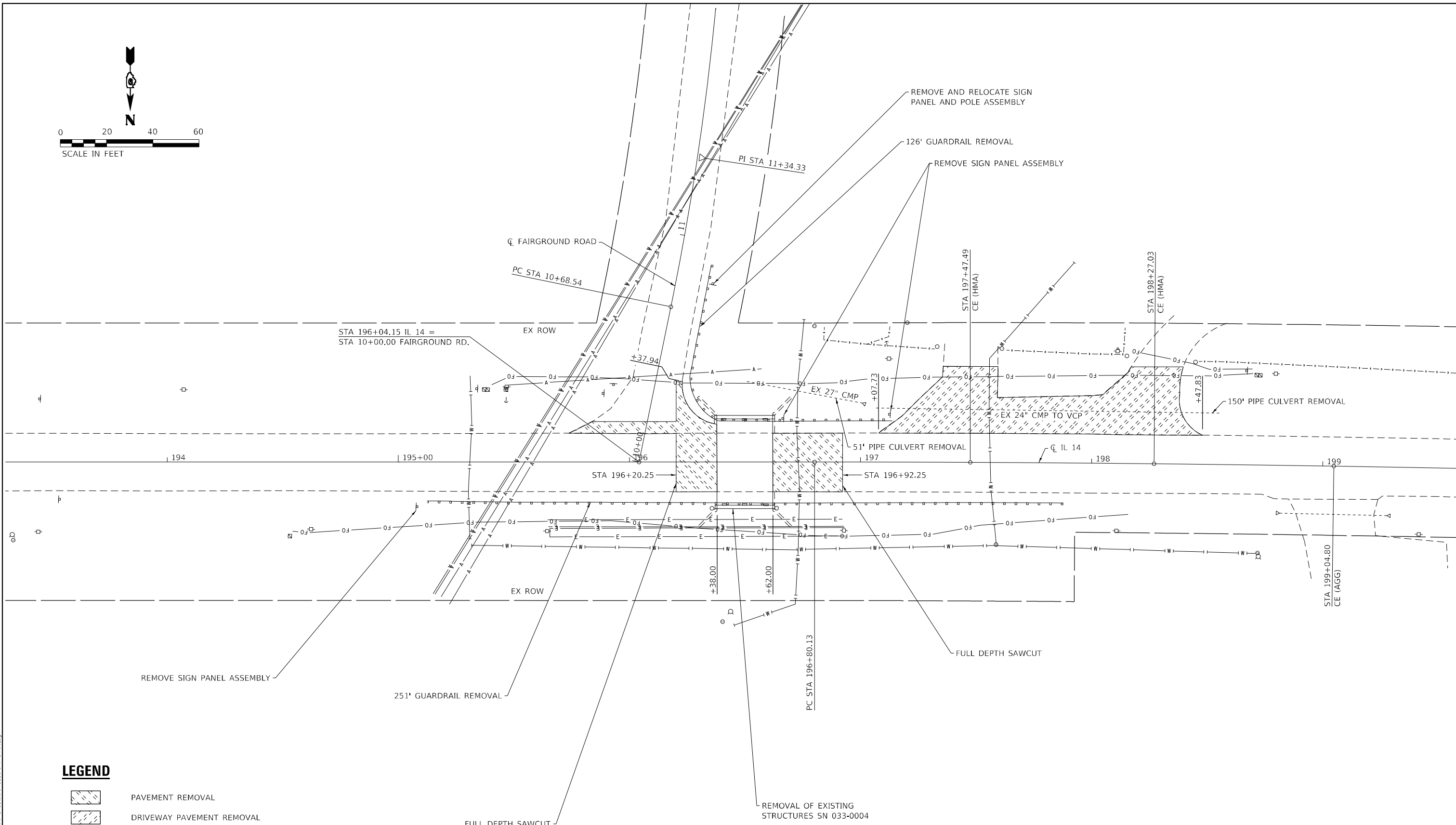
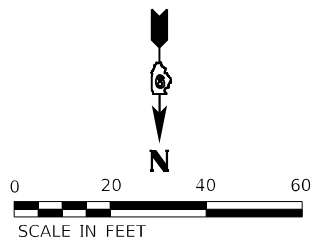


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ESCA PROJECT NO. 1359.12	DRAWN - IRC	REVISED -
PLOT SCALE = 40,0000 * / in.	CHECKED - ELH	REVISED -
PLOT DATE = 10/5/2023	DATE - 08/23	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

EROSION CONTROL PLAN	
SCALE: AS SHOWN	SHEET 1 OF 1 SHEETS
STA. 193+50.00	TO STA. 199+80.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
853	9B-1	HAMILTON	56	25
CONTRACT NO. 78830				
ILLINOIS FED. AID PROJECT				



LEGEND

- PAVEMENT REMOVAL
- DRIVEWAY PAVEMENT REMOVAL

NOTE: THE COST OF REMOVE SIGN PANEL ASSEMBLY AND REMOVE AND RELOCATE SIGN PANEL AND POLE ASSEMBLY IS INCLUDED IN EARTHWORK.

MODEL: Default
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USER NAME = IRC	DESIGNED - IRC	REVISED -
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PLOT SCALE = 40,0000 * / in.	CHECKED - ELH	REVISED -
PLOT DATE = 10/5/2023	DATE - 08/23	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

REMOVAL PLAN

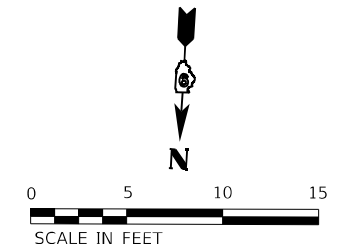
SCALE: AS SHOWN SHEET 1 OF 1 SHEETS STA. 193+30.00 TO STA. 199+60.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
853	9B-1	HAMILTON	56	26
CONTRACT NO. 78830				
ILLINOIS FED. AID PROJECT				

CL FAIRGROUND ROAD

BLON STA
10+84.36

TBT TY1
(SPL) TAN



GENERAL NOTES

1. STATIONS, OFFSETS, DIMENSIONS AND RADII ARE MEASURED TO THE FACE OF PROPOSED GUARDRAIL.
2. THE STEEL PLATE BEAM GUARDRAIL (SHORT RADIUS) SHALL BE TYPE A GUARDRAIL WITH 6'-3" POST SPACING AND 9 FOOT POSTS UNLESS NOTED OTHERWISE.

RADIUS PT
FAIRGROUND RD.
IL 14
STA 10+46.86, 13.00' RT
STA 196+26.31, 43.29' LT

IL 14 STA 196+46.04
40.00' LT

RADIUS PC
STA 196+45.69
20.00' LT

STA. 196+70.69
20.00' LT

BLON STA
196+95.69

8 POST SPACES AT 3'-1 1/2" CTS.
= 25'-0"

5 POST SPACES AT 6'-3" CTS.
= 31'-3"
(SHORT RADIUS)
34'-4 1/2"
SPBGR

THIS POST TO BE ATTACHED TO THE
TOP SLAB OF CULVERT PER STANDARD
630101, COST INCLUDED IN STEEL
PLATE BEAM GUARDRAIL (SHORT RADIUS)

25'-0"
SPBGR
ATTACHED TO CULVERT

TBT TY1
(SPL) FLARED

CL IL 14

196

197

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PLOT DATE = 10/5/2023	DATE - 09/23	REVISED -

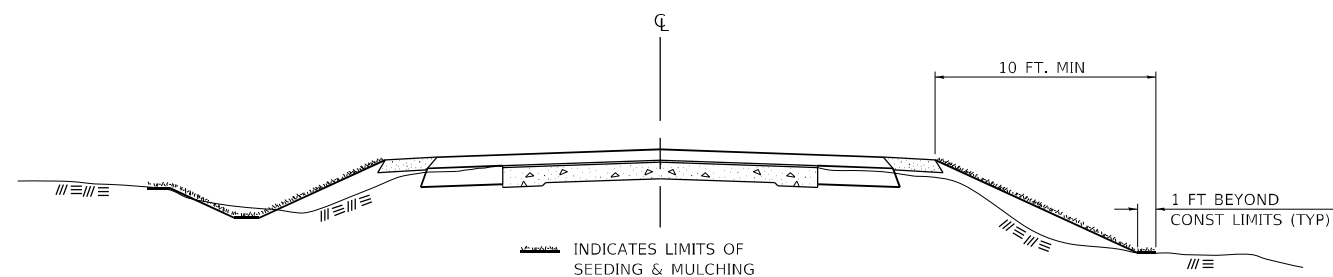
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

GUARDRAIL DETAILS

SCALE: 1"=5' SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
853	9B-1	HAMILTON	56	27
CONTRACT NO. 78830			ILLINOIS FED. AID PROJECT	

SEEDING & MULCHING



GENERAL NOTES

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

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

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

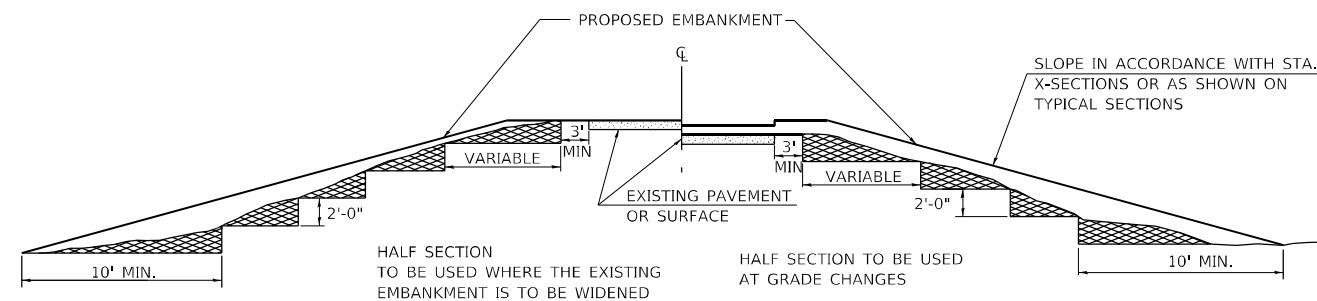
THE RATES OF APPLICATION OF FERTILIZER, MULCH AND LIMESTONE SHALL BE AS SPECIFIED IN THE SPECIAL PROVISIONS FOR ROAD AND BRIDGE CONSTRUCTION.

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

REVISIONS	
REDRAWN	2-15-89
REVISED	8-15-94
REVISED	6-3-99
REVISED	3-27-08
REVISED	5-16-13
REVISED	10-21-21

STD. 9-12

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
REVISED	5-17-13
REVISED	4-22-21
REVISED	10-21-21

STD. 9-16

MODEL_PLOT
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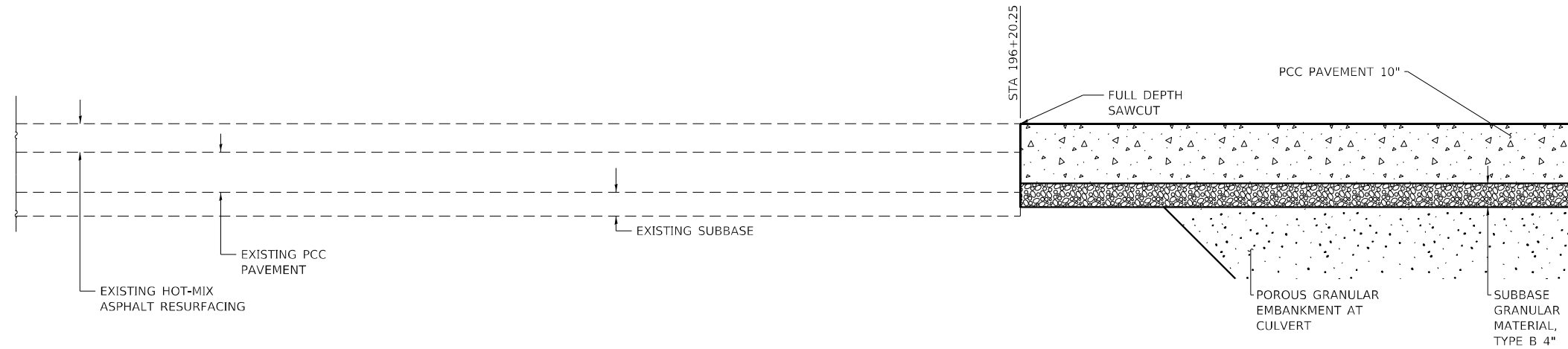
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PLOT DATE = 10/5/2023	DATE - 07/23	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

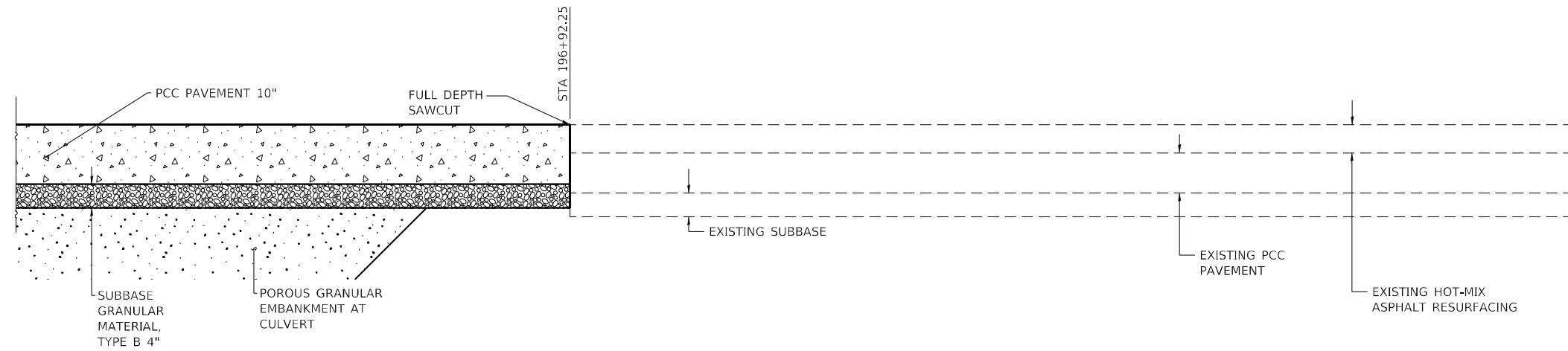
**SEEDING AND MULCHING
& STEP CONSTRUCTION ON EXISTING FILL DETAILS**

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
853	9B-1	HAMILTON	56	28
CONTRACT NO. 78830				
ILLINOIS FED. AID PROJECT				



LONGITUDINAL SECTION
FAP 853 (IL 14) STA 196+20.25 TO STA 196+56.25



LONGITUDINAL SECTION
FAP 853 (IL 14) STA 196+56.25 TO STA 196+92.25

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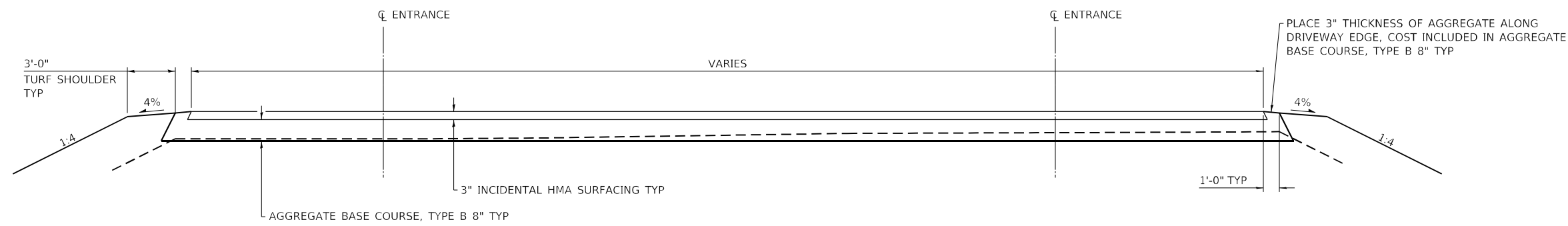
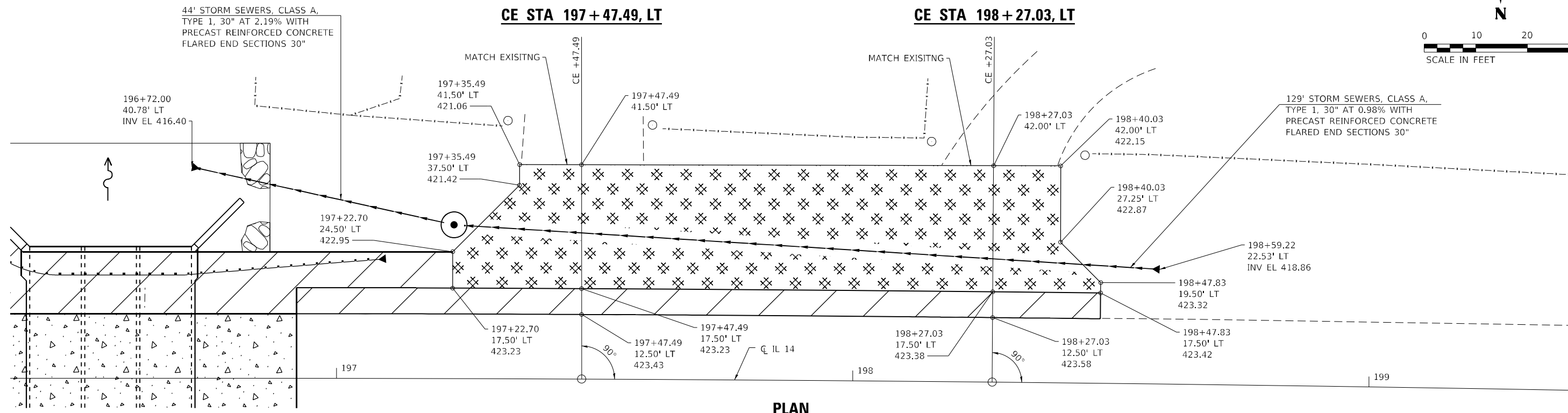
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

PAVEMENT TRANSITION DETAILS

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
853	9B-1	HAMILTON	56	29
CONTRACT NO. 78830				
ILLINOIS FED. AID PROJECT				



NOTE: NOT TO SCALE

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PLOT DATE = 10/5/2023

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DRAWN - IRC
CHECKED - ELH
DATE - 07/23

REVISED -
REVISED -
REVISED -
REVISED -

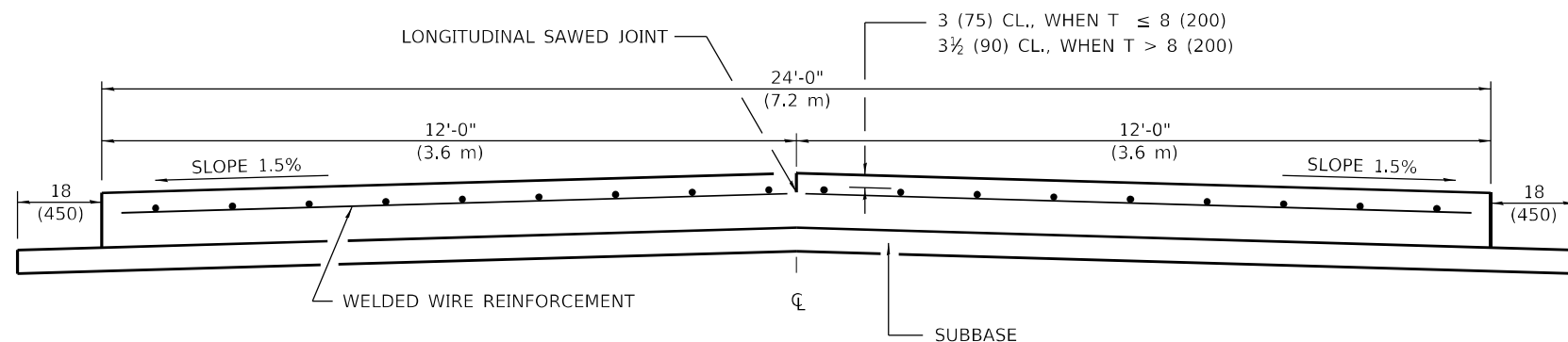
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

ENTRANCE DETAILS

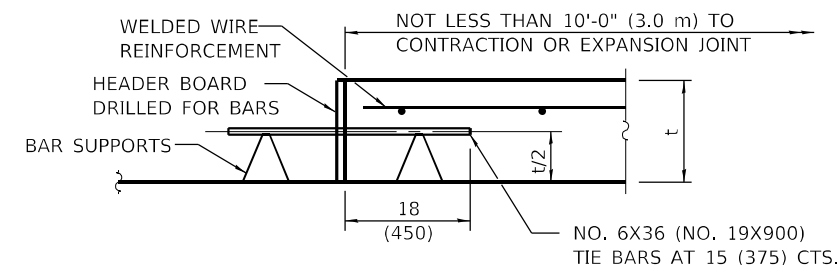
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CONTRACT NO. 78830				
ILLINOIS FED. AID PROJECT				

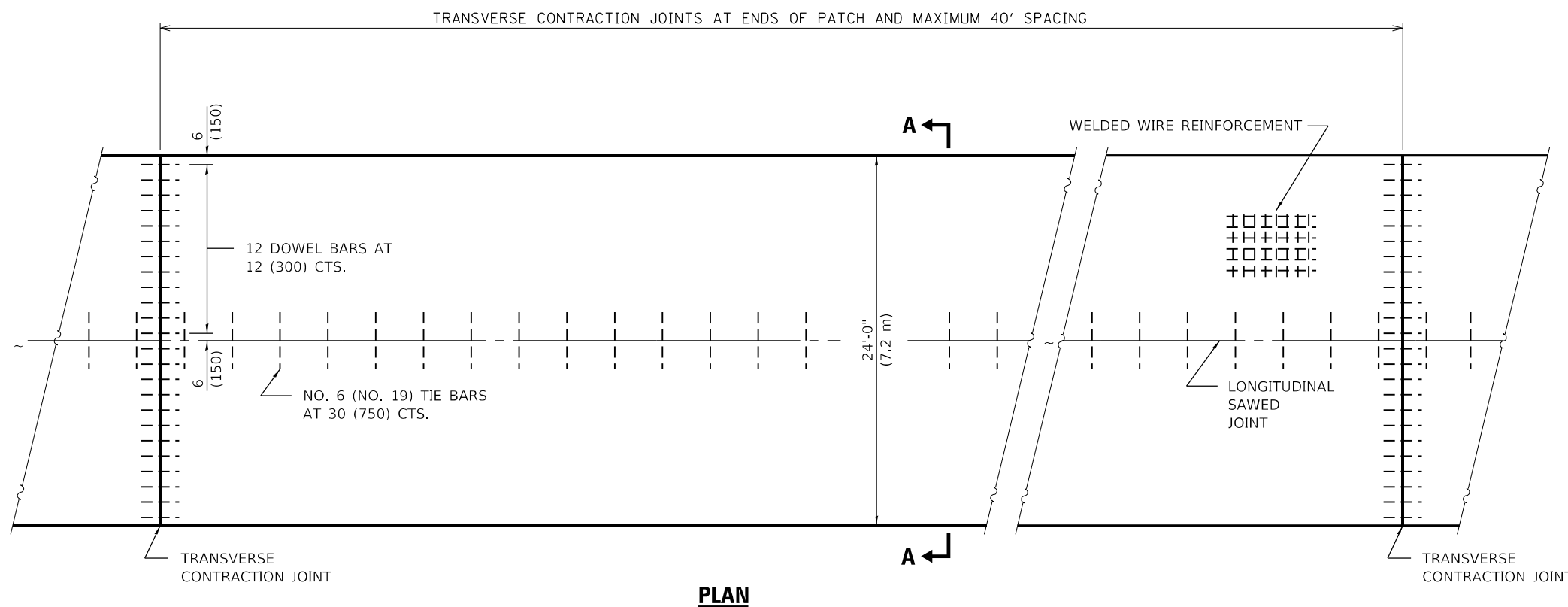
**24' (7.2 m) PCC PAVEMENT
OVER BOX CULVERT**



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
REVISED	10-21-21

STD. 9-25

MODEL PLOT FILE NAME: Y:\PROJECTS\1359-12_78830\CADD\Highway\CADD_Sheets\9B-1-78830-21-std-9-25.dgn



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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

24' PCC PAVEMENT OVER BOX CULVERT

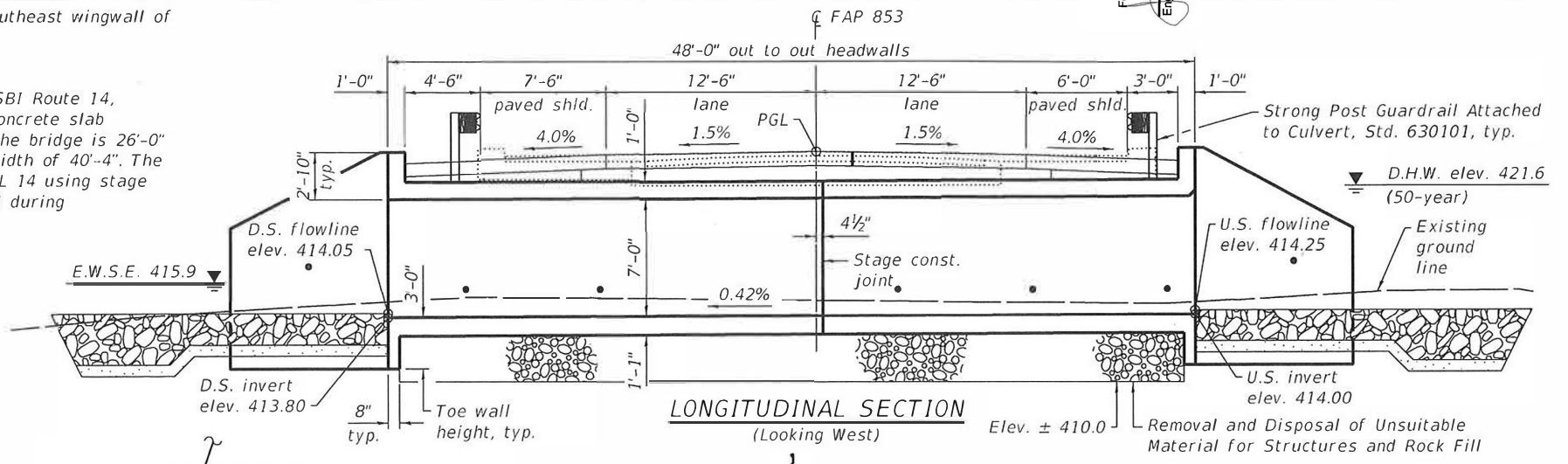
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
853	9B-1	HAMILTON	56	31
CONTRACT NO. 78830				
ILLINOIS FED. AID PROJECT				

BENCHMARK: BM0619 - Chiseled "C" on the top of southeast wingwall of SN 033-0004, elev. 423.633 (NAVD 88)

EXISTING STRUCTURE:
 SN 033-0004 was originally constructed in 1923 as SBI Route 14, Section 9B. The bridge is a single-span reinforced concrete slab supported on closed abutments on spread footings. The bridge is 26'-0" long back-to-back abutments and has an out-to-out width of 40'-4". The bridge is not skewed. Traffic will be maintained on IL 14 using stage construction. Fairground Road will be closed at IL 14 during construction.

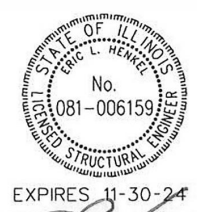
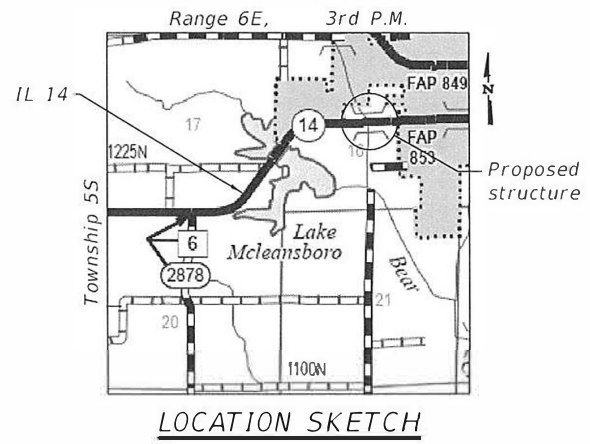
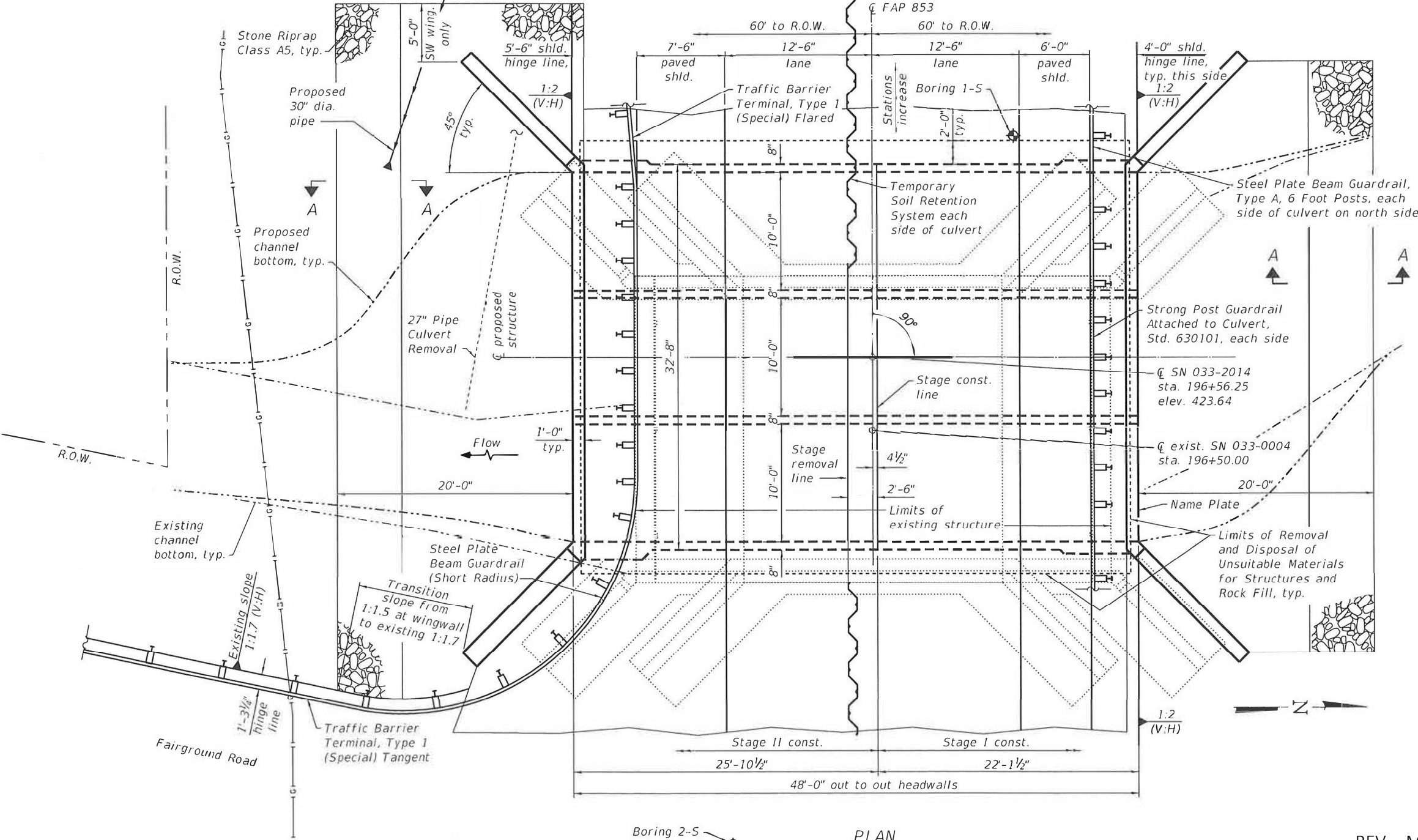
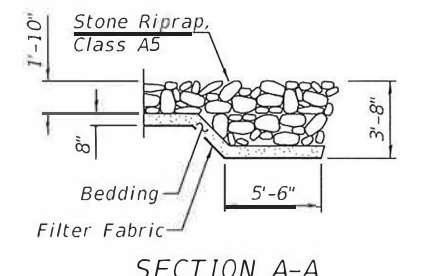
No salvage.



LOADING HL-93
 Allow 50 psf for future wearing surface

DESIGN SPECIFICATIONS
 2020 AASHTO LRFD Bridge Design Specifications, 9th Edition

DESIGN STRESSES
 FIELD UNITS
 $f'_c = 3,500$ psi
 $f_y = 60,000$ psi (reinforcement)



EXPIRES 11-30-24
 SIGNATURE
 08-11-23
 DATE

GENERAL PLAN
 IL 14 OVER BEAR CREEK
 FAP ROUTE 853 - SECTION 9B-1
 HAMILTON COUNTY
 STATION 196+56.25
 STRUCTURE NO. 033-2014

REV. - MS

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

GENERAL PLAN

SHEET 1 OF 12 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
853	9B-1	HAMILTON	56	32
CONTRACT NO. 78830				
ILLINOIS FED. AID PROJECT				

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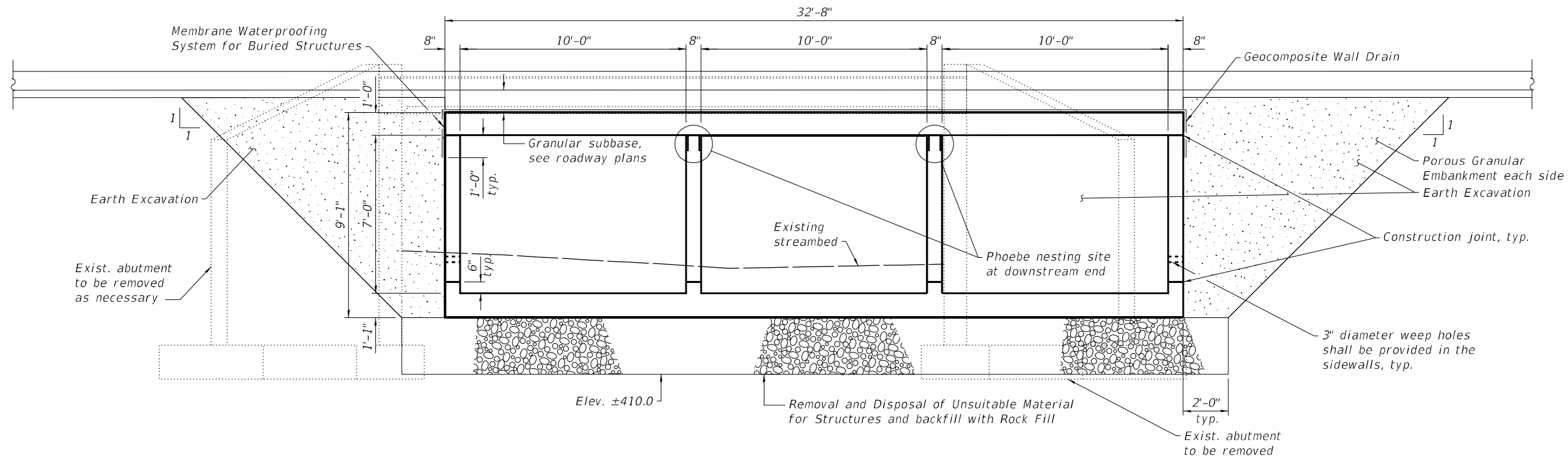
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PLOT DATE = 10/5/2023	CHECKED = ELH	07/23	REVISED =

STRUCTURE INDEX OF SHEETS

General Plan	Sheet No. 1 of 12
General Data	Sheet No. 2 of 12
Stage Construction Details	Sheet No. 3 of 12
Temporary Soil Retention System	Sheet No. 4 of 12
Temporary Concrete Barrier	Sheet No. 5 of 12
Box Culvert Details	Sheet No. 6-10 of 12
Bar Splicer Assembly Details	Sheet No. 11 of 12
Boring Logs	Sheet No. 12 of 12

GENERAL NOTES

1. Reinforcement bars designated (E) shall be epoxy coated.
2. Layout of the slope protection system may be varied to suit ground conditions in the field as directed by the Engineer.
3. Precast alternate is not allowed.
4. Excavation behind existing abutment walls shall be performed to balance front and back soil pressure before removing the existing superstructure. The Contractor shall sawcut the upper portion of the existing abutment at the stage removal line before Stage I removal to ensure the remaining portion will not be prematurely damaged.
5. Existing structure to be completely removed within 2 feet of the proposed culvert barrel and wingwall footprint.
6. The Contractor shall halt the excavation at the bottom of the recommended treatment of removal and replacement of unsuitable material and request a soils test from IDOT District 9. The District Geotechnical Engineer will evaluate the need for additional excavation and determine the limits of Rock Fill.



SECTION THRU BARREL
(Looking South)

STA. 196+56.25
BUILT 20__ BY
STATE OF ILLINOIS
F.A.P. RT. 853 SEC. 9B-1
LOADING HL-93
STR. NO. 033-2014

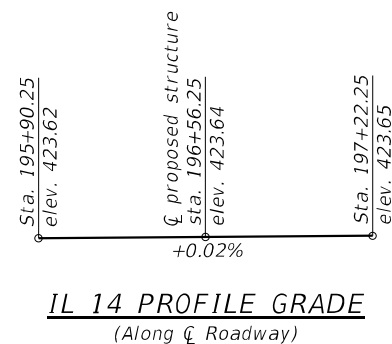
Notes:
Excavation for construction of the box culvert, including the excavation necessary to construct the granular backfill, is included in Earth Excavation, see roadway plans.

NAME PLATE
See Std. 515001

WATERWAY INFORMATION TABLE

Flood	Freq. Yr.	Discharge (C.F.S.)	Waterway Opening (sq. ft.)		Natural H.W.E. (ft.)	Head (ft.)		Headwater Elev. (ft.)	
			Existing	Proposed		Existing	Proposed	Existing	Proposed
Drainage Area = 1.1 sq. mi.									
Existing Overtopping Elev. 423.59 at Sta. 195+50.04									
Proposed Overtopping Elev. 423.59 at Sta. 195+50.04									
Overtop Existng	10	1,060	143	202	421.0	1.2	0.1	422.2	421.1
Design	18	1,343	143	-	421.3	2.3	-	423.6	-
Overtop Proposed	50	1,750	143	202	421.6	2.4	1.2	424.0	422.8
Base	65	1,914	-	202	421.7	-	1.9	-	423.6
Scour Design Check	100	2,060	143	202	421.8	2.5	2.1	424.3	423.9
	200	2,414	143	202	422.0	2.5	2.2	424.5	424.2

10-year velocity through existing bridge = 8.2 ft/s
10-year velocity through proposed culvert = 5.2 ft/s



TOTAL BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Porous Granular Embankment	Cu. Yd.	300
Stone Riprap, Class A5	Sq. Yd.	232
Filter Fabric	Sq. Yd.	232
Removal of Existing Structures	Each	1
Removal and Disposal of Unsuitable Material for Structures	Cu. Yd.	180
Reinforcement Bars, Epoxy Coated	Pound	40,390
Bar Splicers	Each	192
Name Plates	Each	1
Temporary Soil Retention System	Sq. Ft.	301
Concrete Box Culverts	Cu. Yd.	193.2
Geocomposite Wall Drain	Sq. Yd.	190
Strong Post Guardrail Attached To Culvert	Foot	50
Membrane Waterproofing System for Buried Structures	Sq. Yd.	190
Rock Fill	Ton	286

See roadway plans for quantities of Temporary Concrete Barrier, Earth Excavation, and Pavement Removal.

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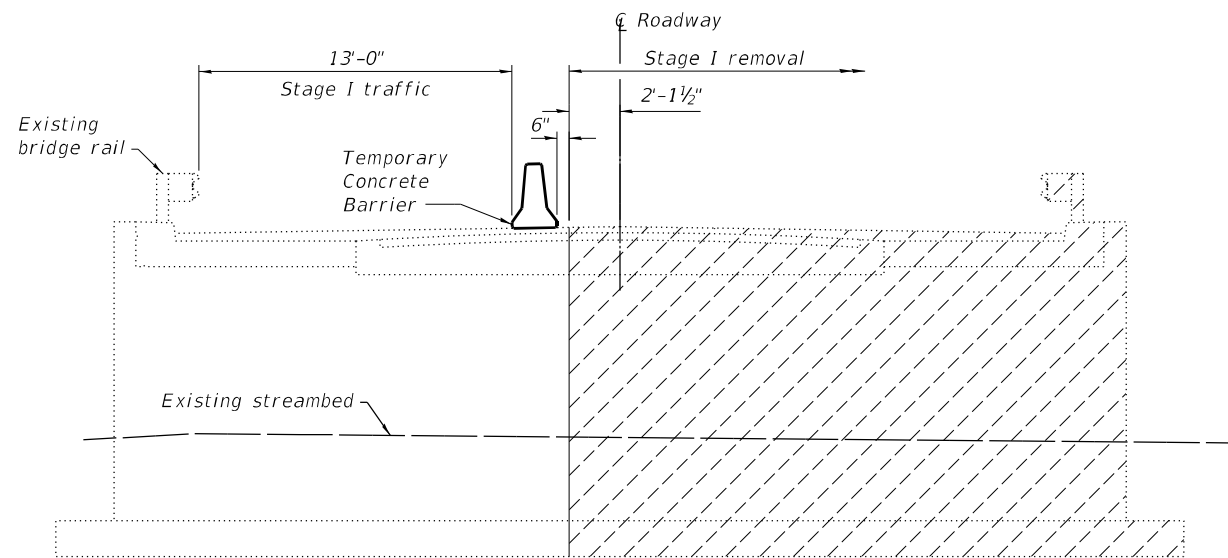
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PLOT DATE = 10/5/2023	CHECKED - ELH	07/23	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

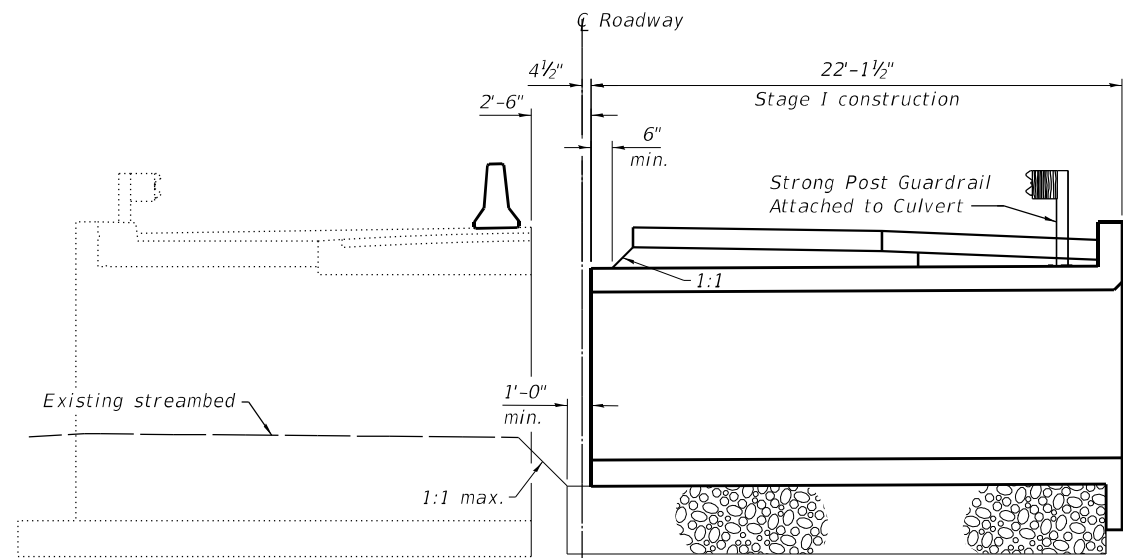
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STRUCTURE NO. 033-2014

SHEET 2 OF 12 SHEETS

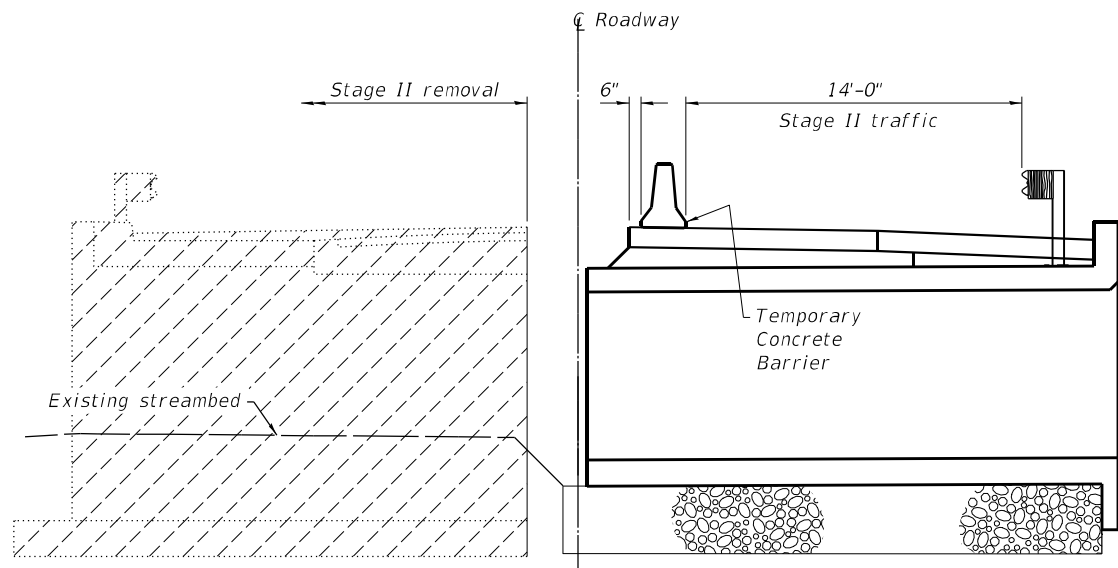
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CONTRACT NO. 78830				
ILLINOIS FED. AID PROJECT				



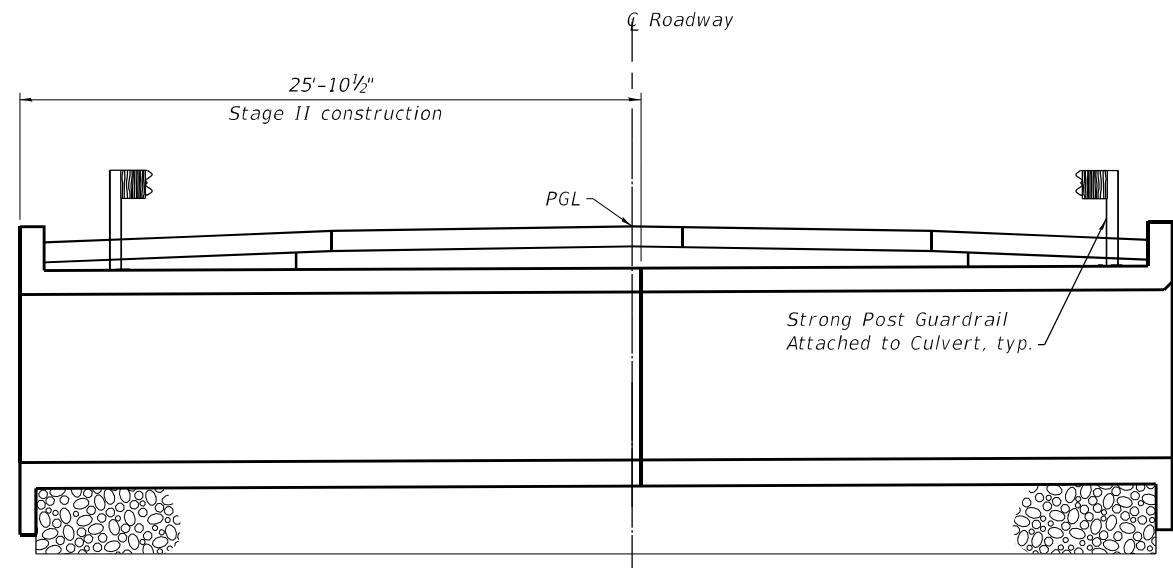
STAGE I REMOVAL



STAGE I CONSTRUCTION



STAGE II REMOVAL



STAGE II CONSTRUCTION

Notes:

1. All staging sections looking west.
2. Hatched areas indicate removal.
3. See roadway plans for quantity of Temporary Concrete Barrier.
4. Removal of existing steel railing is included with Removal of Existing Structures.
5. Stage I traffic based on March 2021 BCR Inspection.

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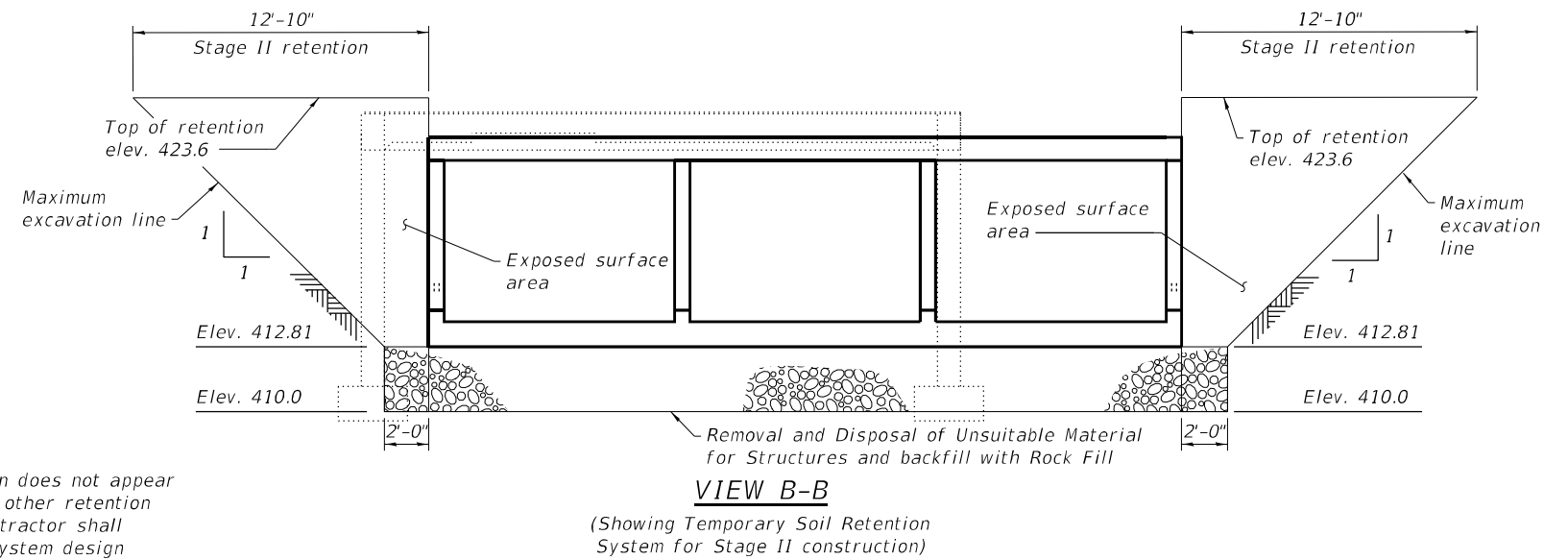
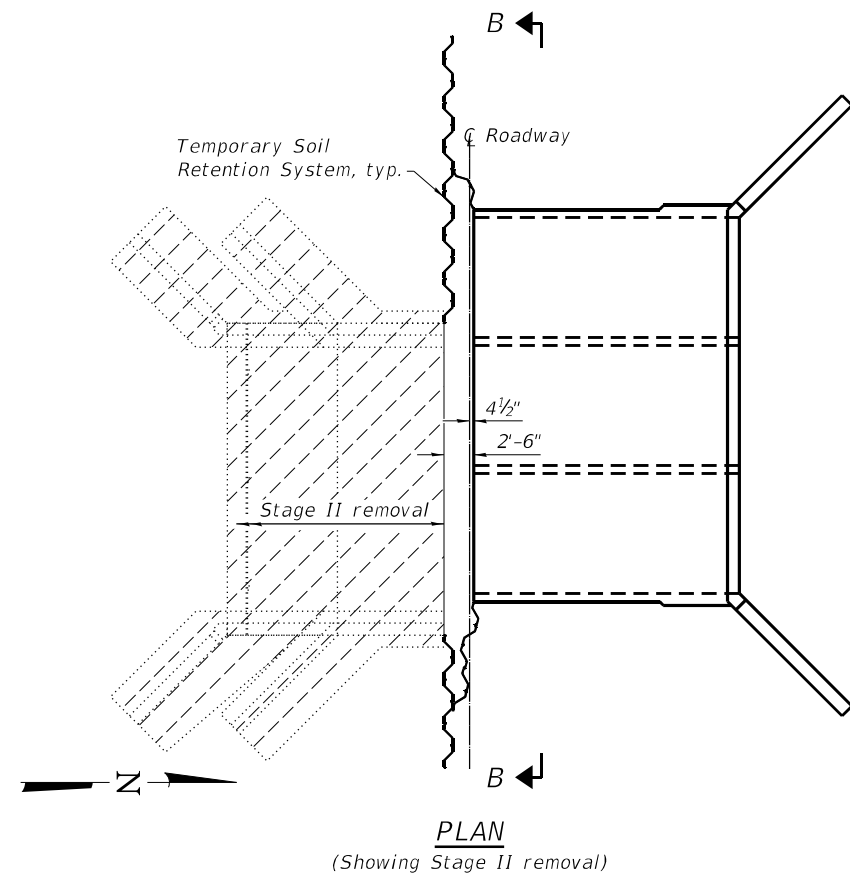
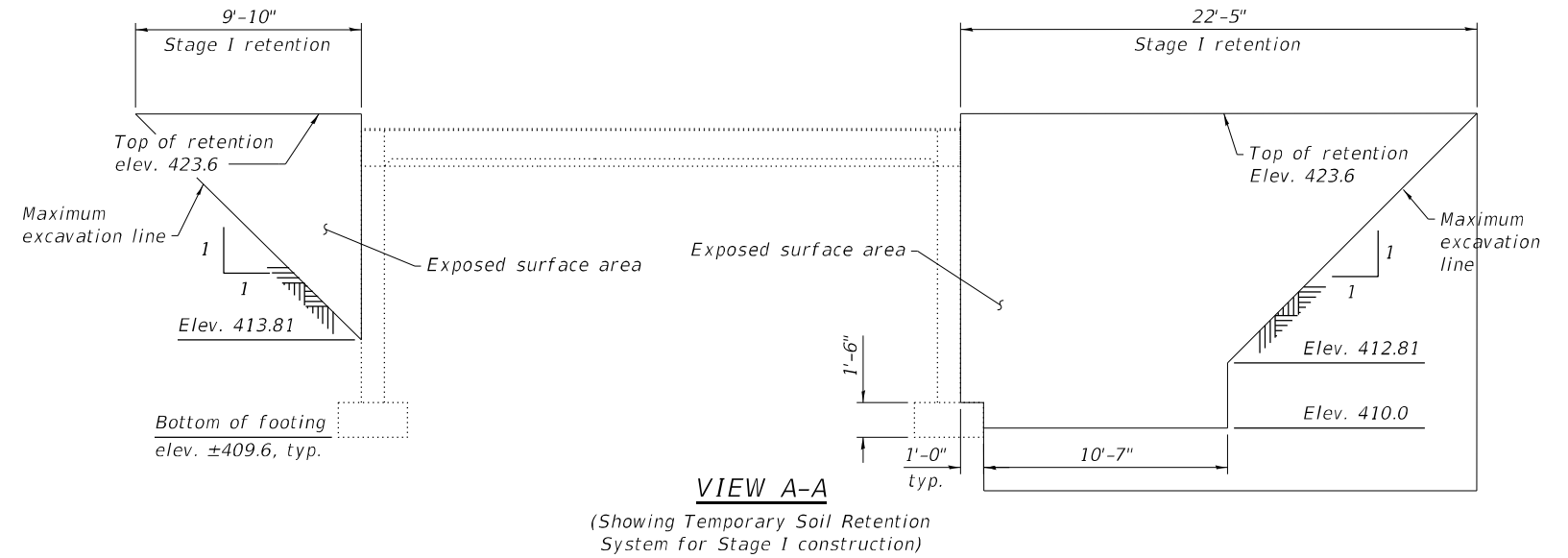
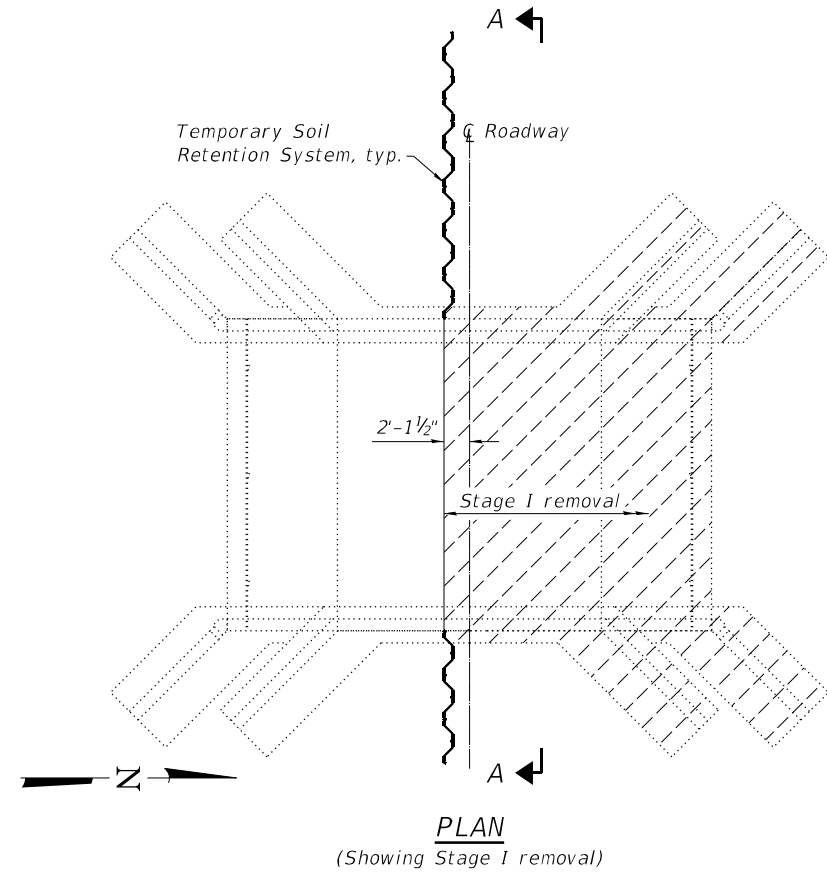
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**STAGE CONSTRUCTION DETAILS
STRUCTURE NO. 033-2014**

SHEET 3 OF 12 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
853	9B-1	HAMILTON	56	34
CONTRACT NO. 78830				
ILLINOIS FED. AID PROJECT				



Note:
A cantilevered sheet piling design does not appear feasible and additional members or other retention systems may be necessary. The Contractor shall submit a temporary soil retention system design including plan details and calculations for review and acceptance by the Engineer.

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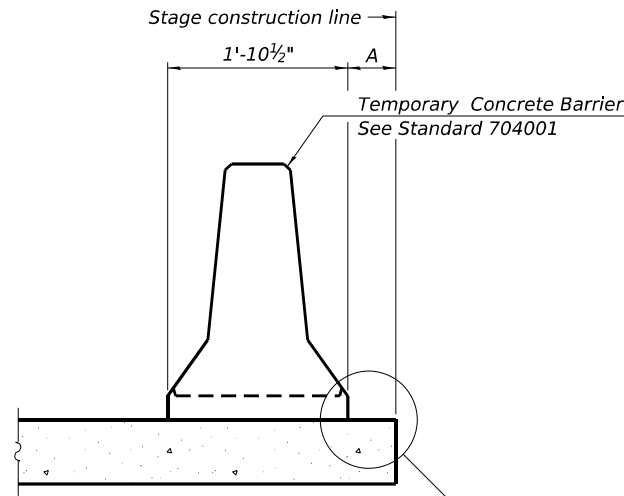
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PLOT DATE = 10/5/2023	CHECKED - ELH 07/23	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY SOIL RETENTION SYSTEM
STRUCTURE NO. 033-2014

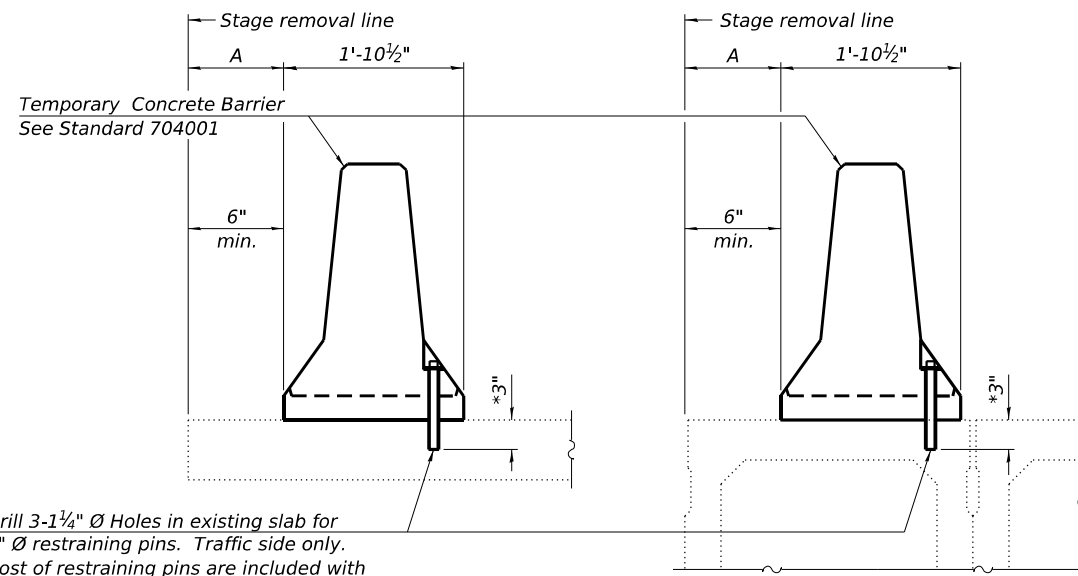
SHEET 4 OF 12 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
853	9B-1	HAMILTON	56	35
CONTRACT NO. 78830				
ILLINOIS FED. AID PROJECT				



When "A" is 3'-1" or less, the temporary concrete barrier shall be restrained to the new slab according to Detail I, II or III. No restraint is required when "A" is greater than 3'-1".

NEW SLAB OR NEW DECK BEAM



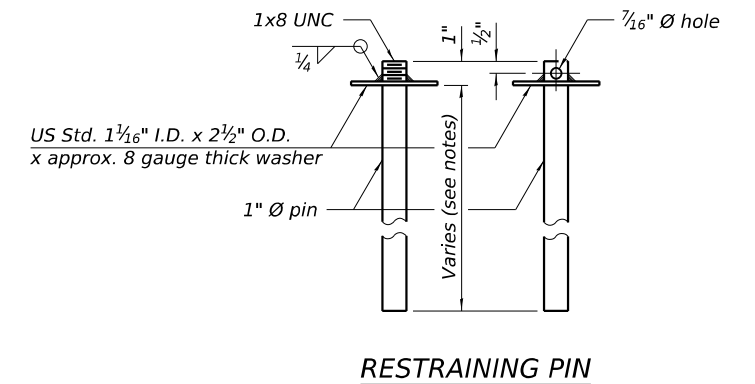
Drill 3-1 1/4" Ø Holes in existing slab for 1" Ø restraining pins. Traffic side only. Cost of restraining pins are included with Temporary Concrete Barrier. No restraint is required when "A" is greater than 3'-1".

* When hot-mix asphalt wearing surface is present, embedment shall be 3" plus the wearing surface depth.

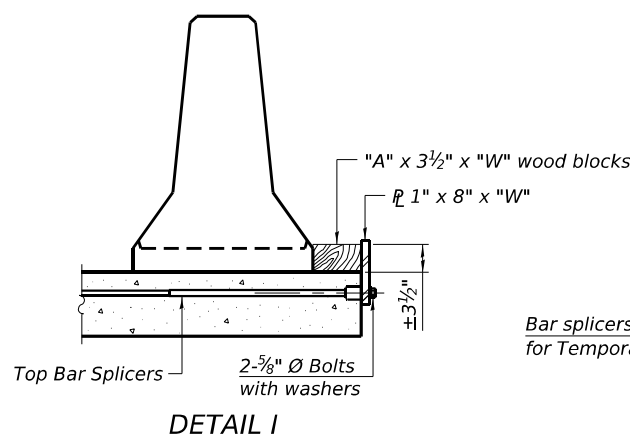
EXISTING SLAB

EXISTING DECK BEAM

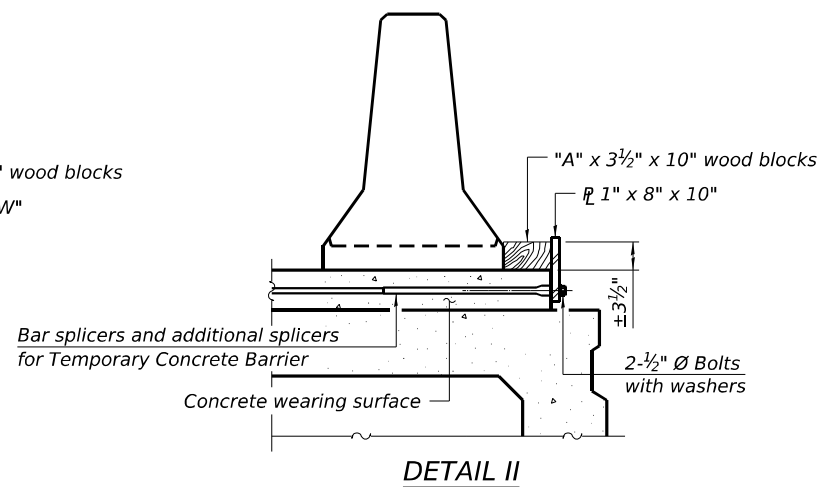
SECTIONS THRU SLAB OR DECK BEAM



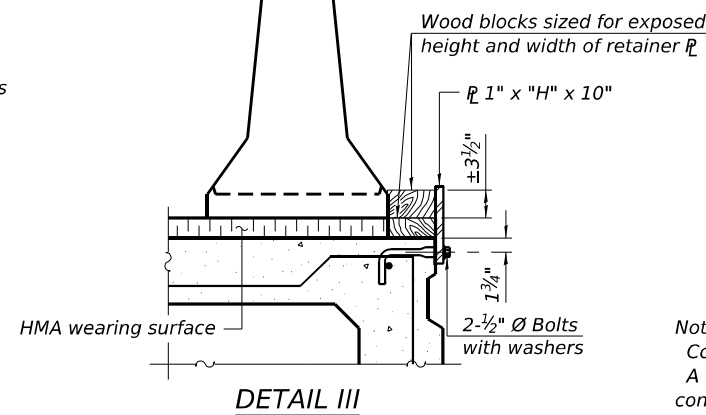
RESTRAINING PIN



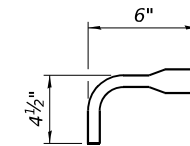
DETAIL I



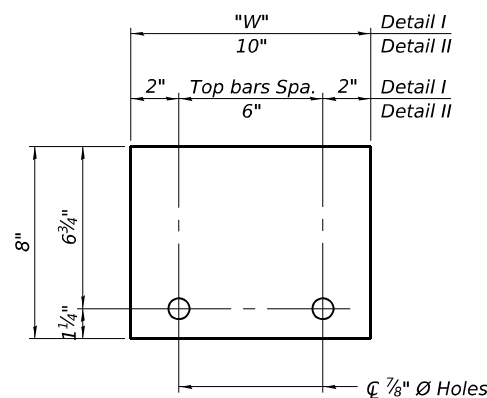
DETAIL II



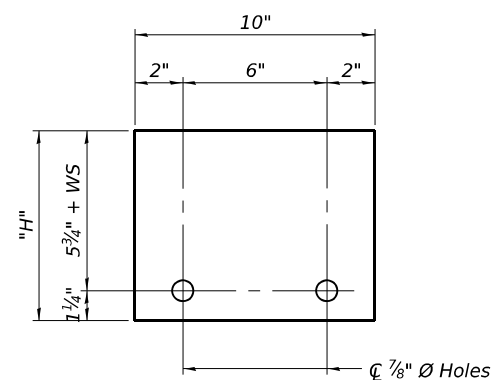
DETAIL III



BAR SPLICER FOR #4 BAR - DETAIL III



STEEL RETAINER 1" x 8" x "W" (Detail I and II)



STEEL RETAINER 1" x "H" x 10" (Detail III)

Notes:
 Cost of retainer assembly is included with Temporary Concrete Barrier.
 A retainer assembly shall be located at the approximate center of each temporary concrete barrier.
 The retainer plate shall not be removed until the concrete on the adjacent stage is ready to be poured. For Detail III applications the retainer plate shall not be removed until just prior to placing the adjacent beam.
 When the 'A' dimension is less than 1 1/2", the wood block shall be omitted and the barrier shall be placed in direct contact with the steel retainer plate. For deck beam applications the minimum required 'A' distance is 6" to accommodate the shear key clamping device.

Detail I - Installation for a new bridge deck or bridge slab.

Detail II - Installation for a new deck beam with an initial concrete wearing surface. Additional bar splicers shall be provided at 6'-0" centers and paired with the bar splicers of the concrete wearing surface reinforcement to accommodate the installation of the retainer assemblies. The cost of the additional bar splicers is included with the concrete wearing surface.

Detail III - Installation for a new deck beam with no initial wearing surface or with an initial hot-mix asphalt (HMA) wearing surface present. The deck beam directly beneath the temporary concrete barrier shall be fabricated with bar splicer inserts in the side of the beam, as detailed, to accommodate the installation of the retainer assemblies. A pair of bar splicers, 6" apart, shall be placed at 6'-0" centers along the length of the beam. The cost of the bar splicers is included with the deck beam.

RAILING CRITERIA

NCHRP 350 Test Level	3
Railing Weight (plf)	440

R-27 5-15-2023

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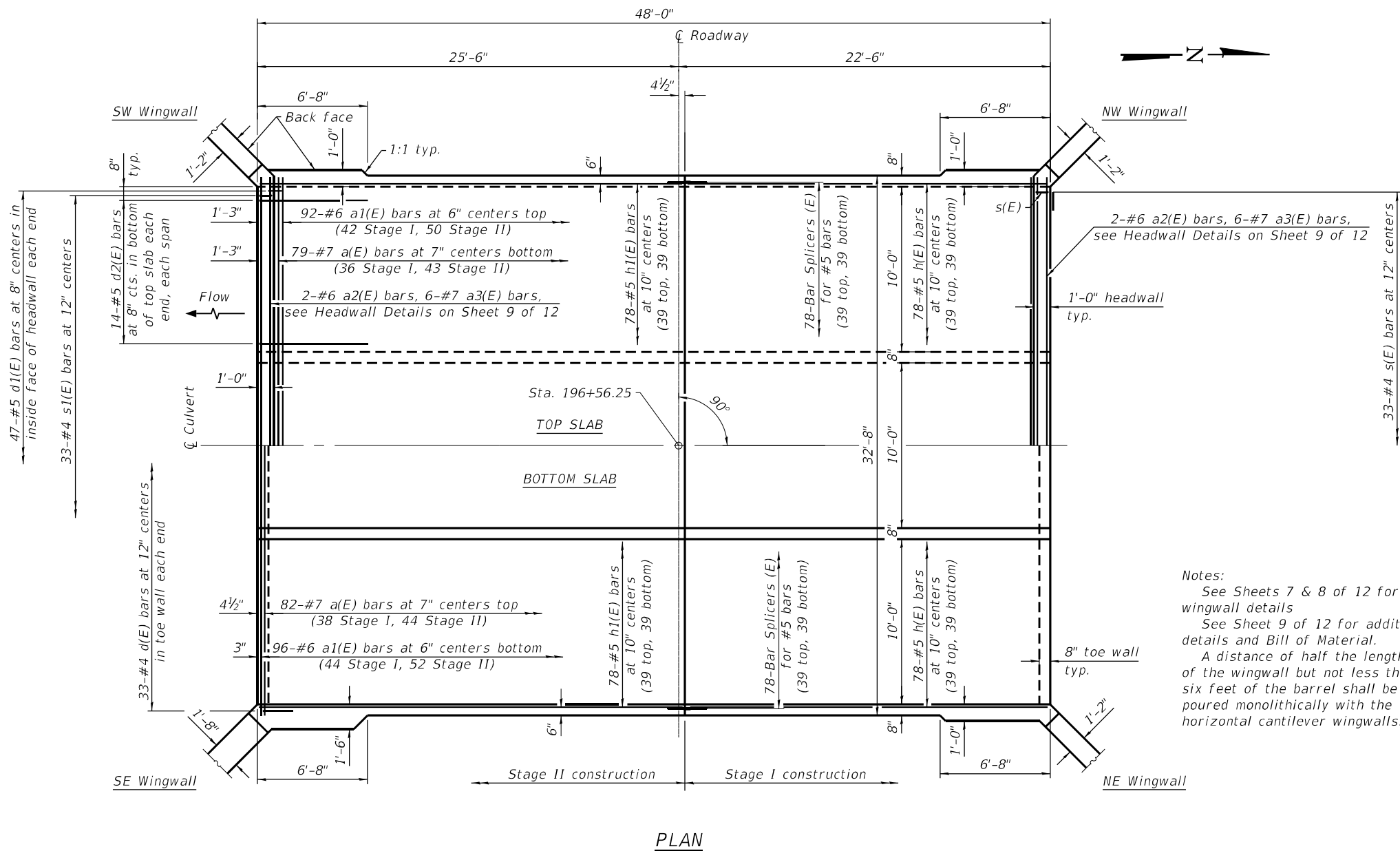
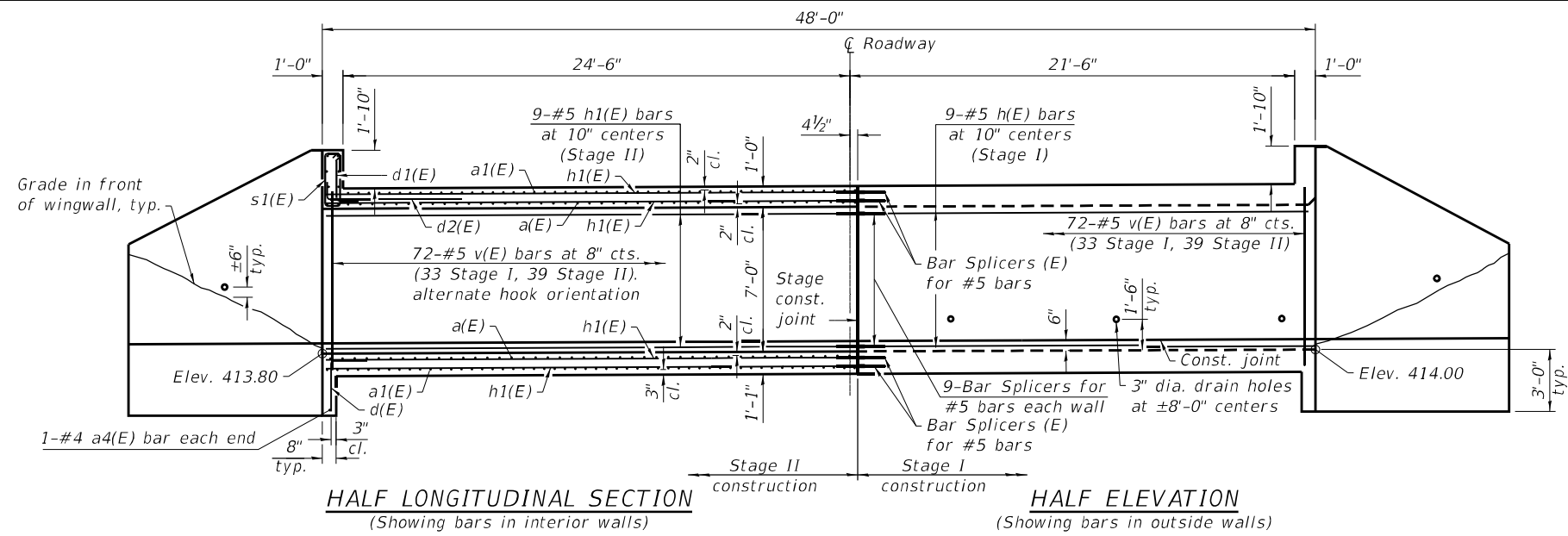
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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

TEMPORARY CONCRETE BARRIER
 STRUCTURE NO. 033-2014

SHEET 5 OF 12 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
853	9B-1	HAMILTON	56	36
CONTRACT NO. 78830				
ILLINOIS FED. AID PROJECT				



Notes:
 See Sheets 7 & 8 of 12 for wingwall details
 See Sheet 9 of 12 for additional details and Bill of Material.
 A distance of half the length of the wingwall but not less than six feet of the barrel shall be poured monolithically with the horizontal cantilever wingwalls.

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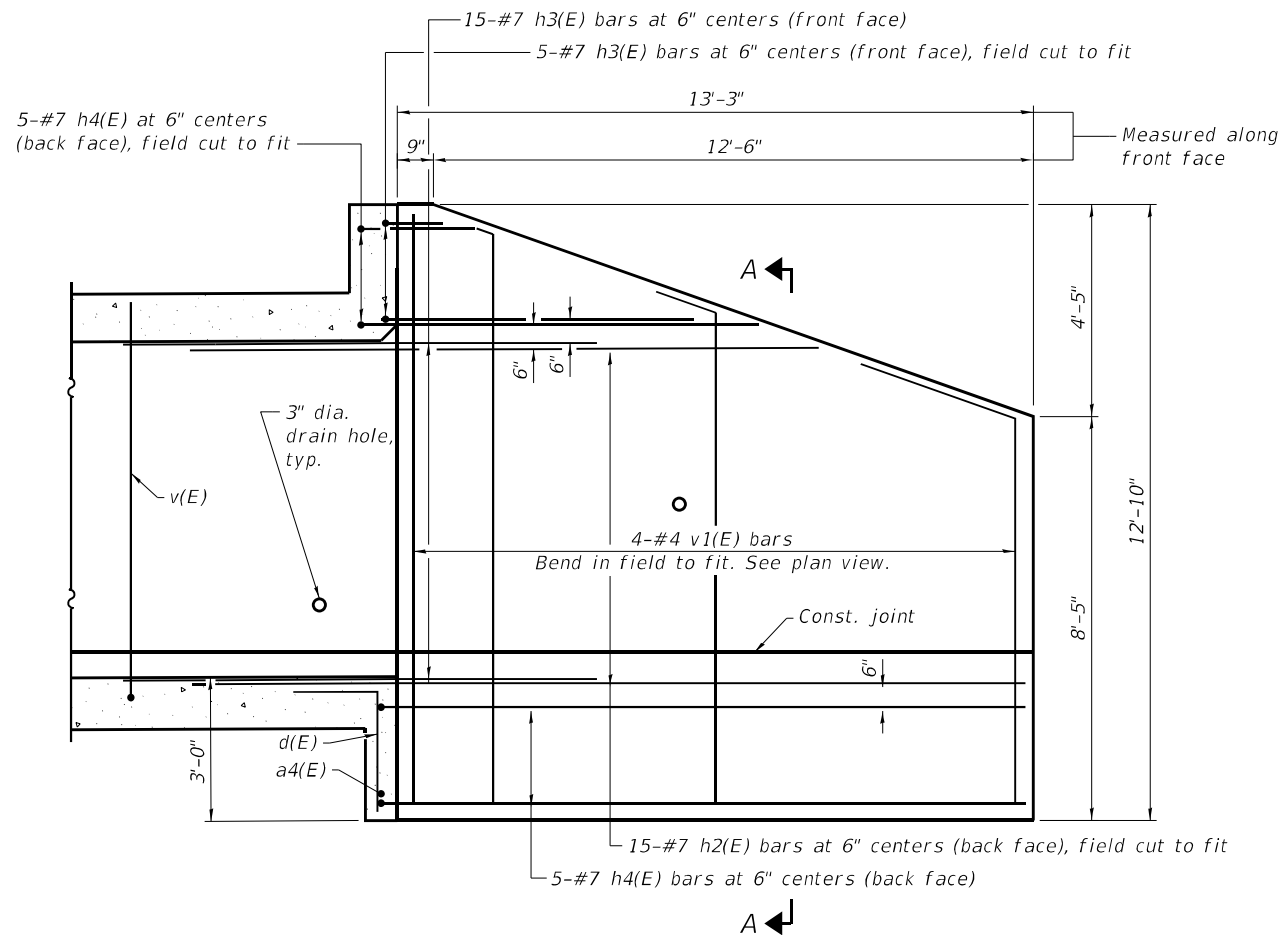
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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

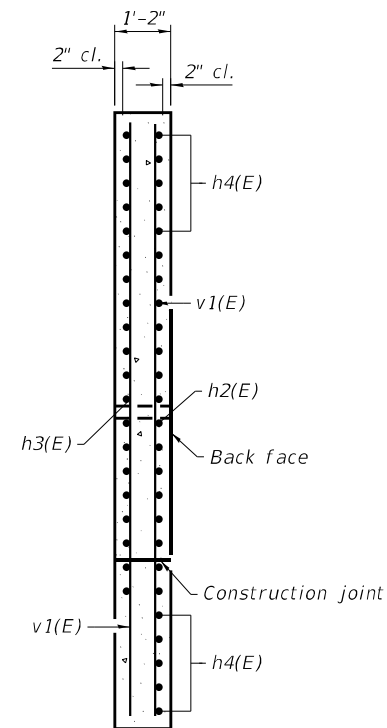
BOX CULVERT DETAILS
 STRUCTURE NO. 033-2014

SHEET 6 OF 12 SHEETS

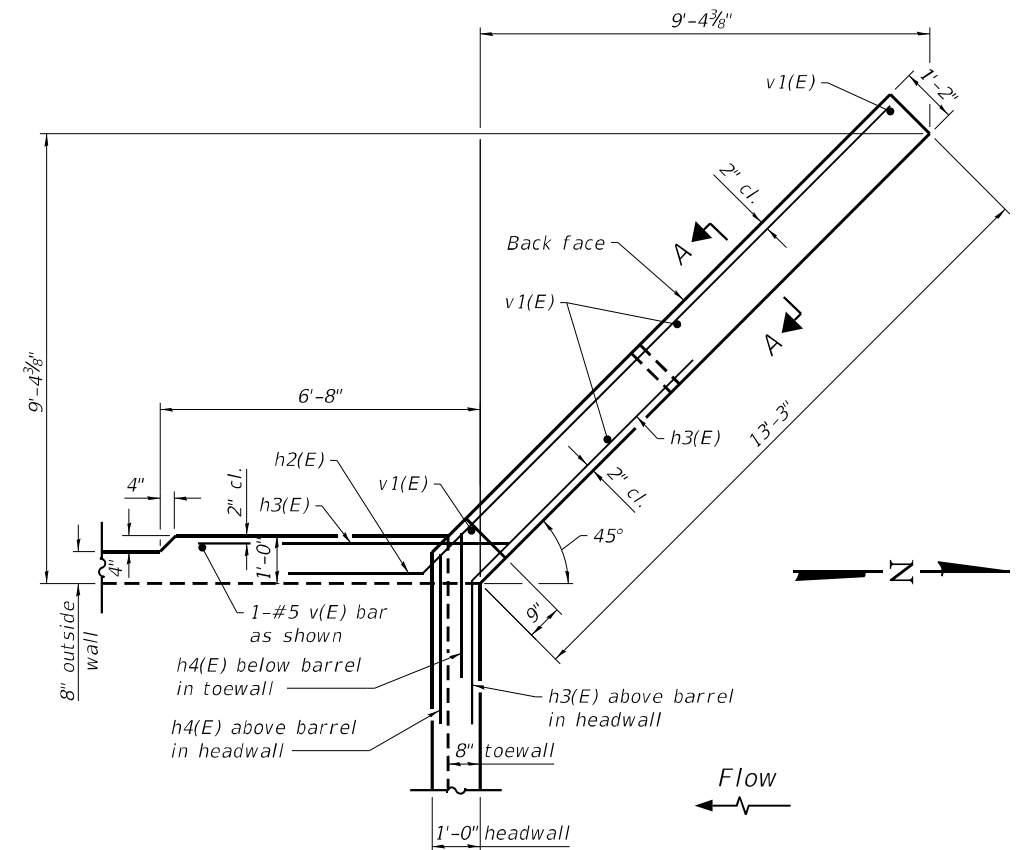
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853	9B-1	HAMILTON	56	37
CONTRACT NO. 78830				
ILLINOIS FED. AID PROJECT				



NORTHWEST WINGWALL ELEVATION
(Northeast and Southwest wingwalls similar)



SECTION A-A



NORTHWEST WINGWALL PLAN
(Northeast and Southwest wingwalls similar)

MODEL: PLOT
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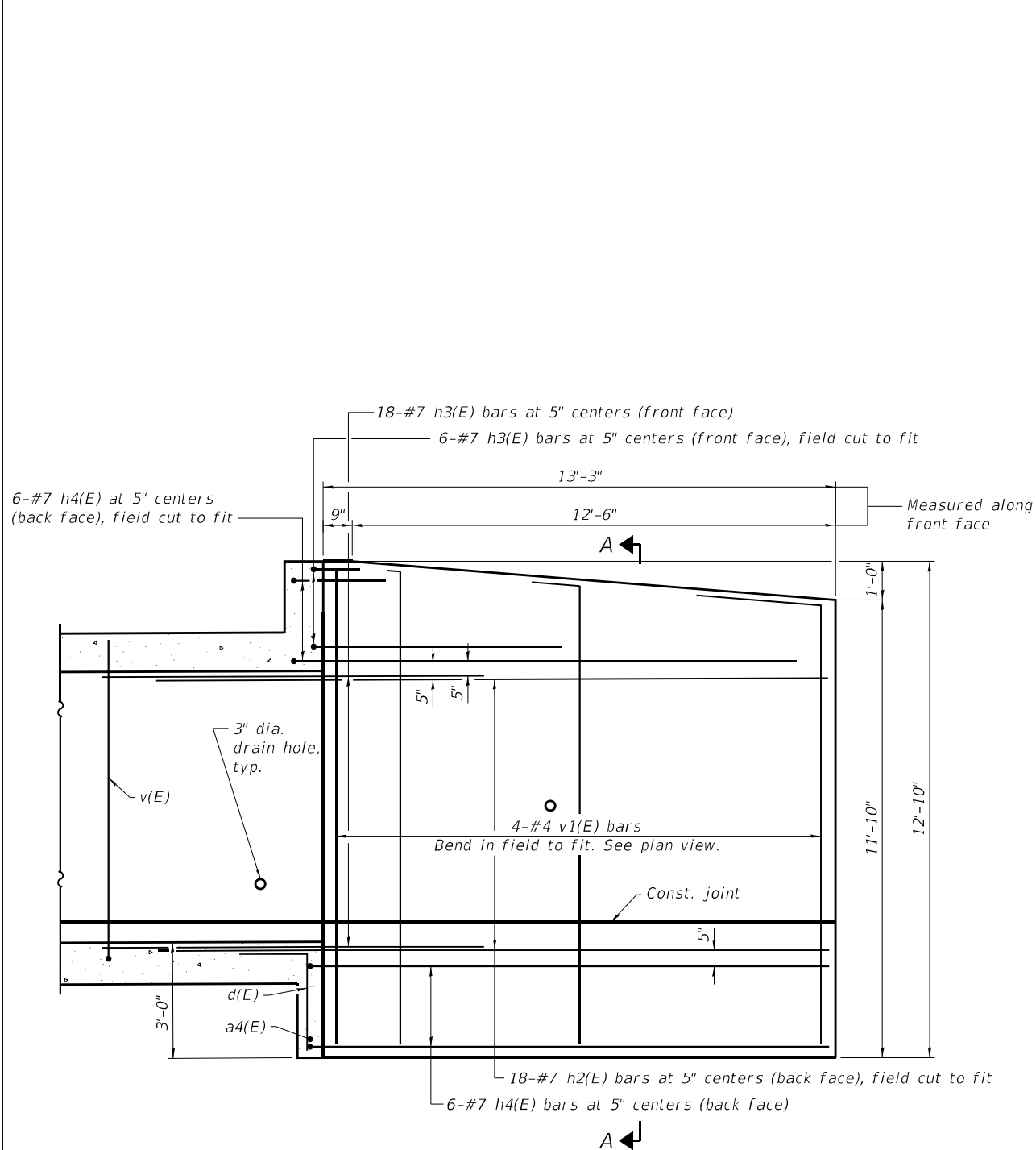
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**BOX CULVERT DETAILS
STRUCTURE NO. 033-2014**

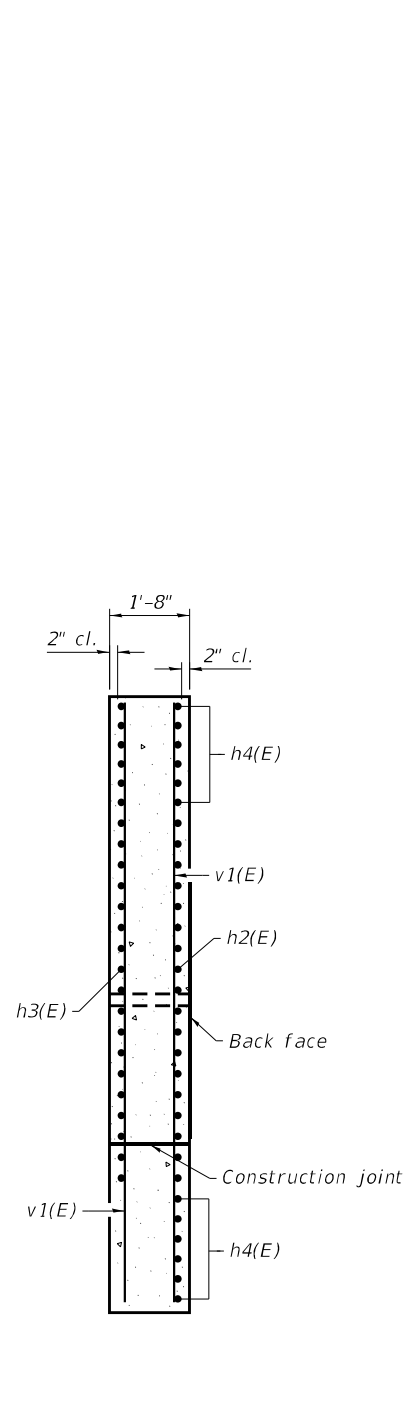
SHEET 7 OF 12 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
853	9B-1	HAMILTON	56	38
CONTRACT NO. 78830				

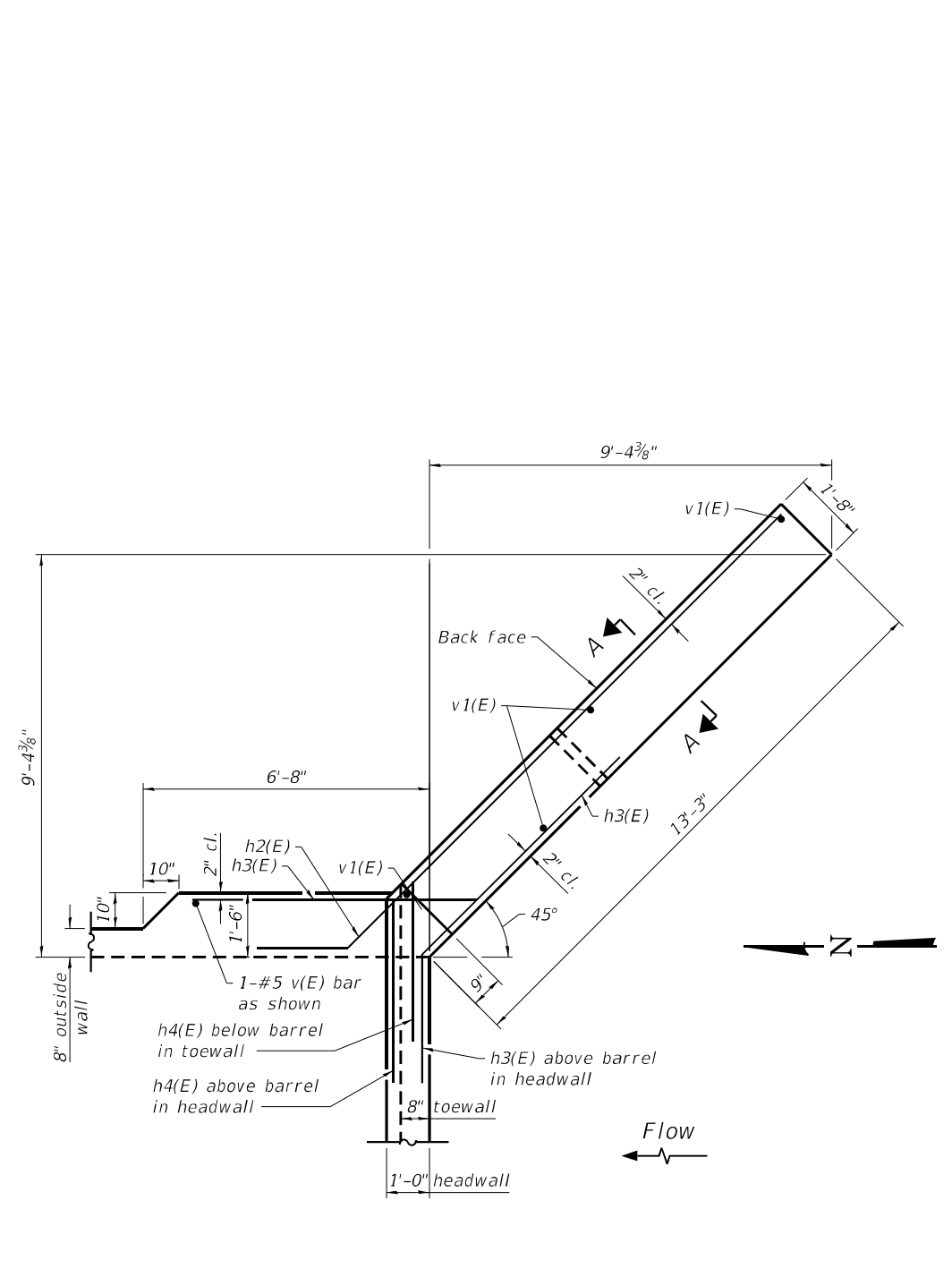
ILLINOIS FED. AID PROJECT



SOUTHEAST WINGWALL ELEVATION



SECTION A-A



SOUTHEAST WINGWALL PLAN

MODEL: PLOT
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ESCA PROJECT NO. 1359.12	CHECKED - ELH 07/23	REVISED -
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PLOT DATE = 10/5/2023	CHECKED - ELH 07/23	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

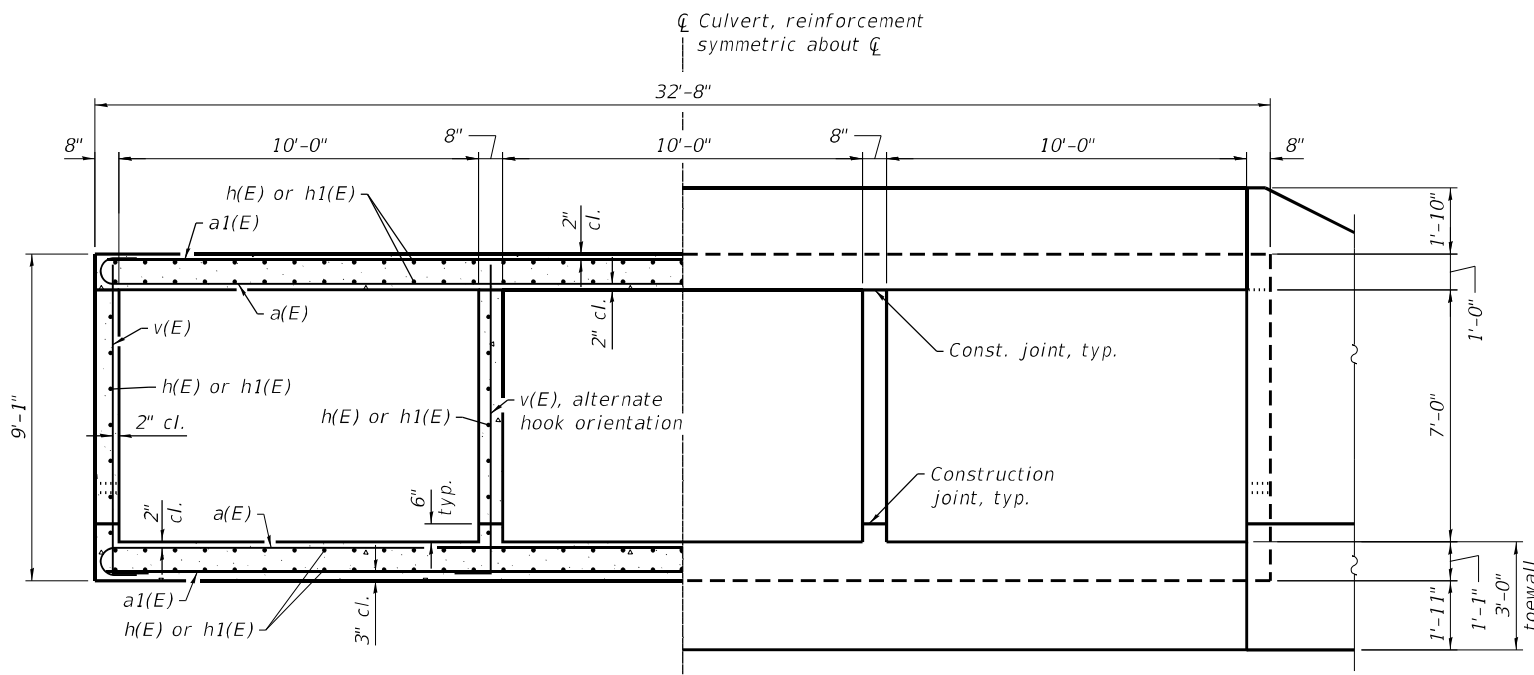
**BOX CULVERT DETAILS
 STRUCTURE NO. 033-2014**

SHEET 8 OF 12 SHEETS

F.A.P. RTE. 853	SECTION 9B-1	COUNTY HAMILTON	TOTAL SHEETS 56	SHEET NO. 39
CONTRACT NO. 78830				
ILLINOIS FED. AID PROJECT				

BILL OF MATERIAL

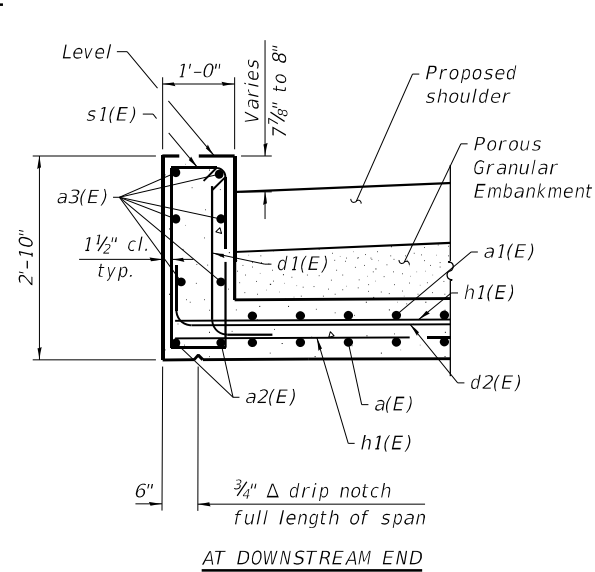
Bar	No.	Size	Length	Shape
a(E)	161	#7	34'-0"	
a1(E)	188	#6	32'-4"	
a2(E)	4	#6	33'-8"	
a3(E)	12	#7	32'-4"	
a4(E)	2	#4	32'-4"	
d(E)	66	#4	4'-4"	
d1(E)	94	#5	3'-2"	
d2(E)	84	#5	7'-4"	
h(E)	192	#5	21'-8"	
h1(E)	192	#5	25'-6"	
h2(E)	63	#7	16'-10"	
h3(E)	84	#7	9'-5"	
h4(E)	42	#7	15'-6"	
s(E)	33	#4	7'-4"	
s1(E)	33	#4	7'-5"	
v(E)	292	#5	9'-5"	
v1(E)	16	#4	12'-5"	
Concrete Box Culverts			Cu. Yd.	193.2
Reinforcement Bars, Epoxy Coated			Pound	40,390



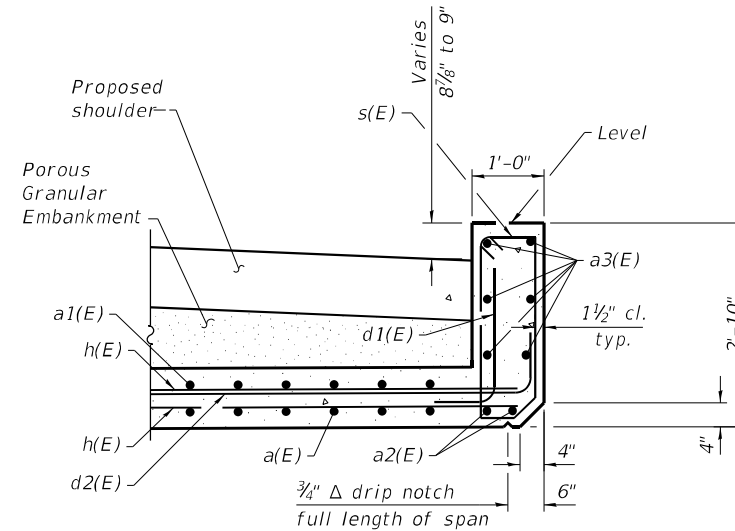
HALF SECTION THROUGH BARREL

HALF END ELEVATION

BARREL DETAILS

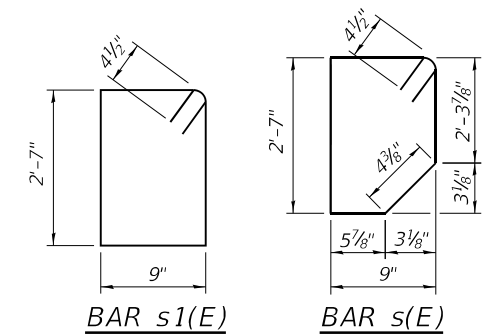


AT DOWNSTREAM END



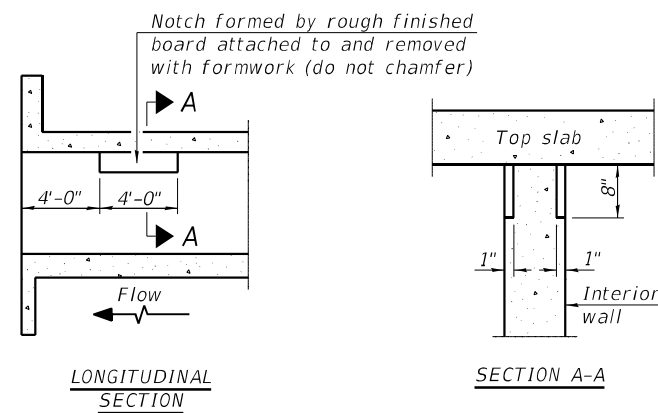
AT UPSTREAM END

HEADWALL DETAILS



BAR s1(E)

BAR s(E)



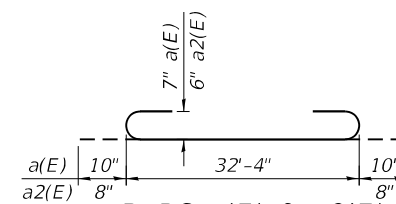
LONGITUDINAL SECTION

SECTION A-A

**PHOEBE NESTING
SITE DETAILS
(Downstream End Only)**

BAR	A	B
d(E)	1'-9"	2'-7"
d1(E)	10"	2'-4"
d2(E)	10"	6'-6"
v(E)	10"	8'-7"

BARS d(E), d1(E), d2(E) & v(E)



BARS a(E) & a2(E)

BAR	A	B
h2(E)	13'-10"	2'-1 1/2"
h3(E)	6'-5"	2'-1 1/2"
h4(E)	12'-6"	2'-1 1/2"

BARS h2(E) THRU h4(E)

MODEL: PLOT
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10/5/2023 3:02:36 PM



USER NAME = IRC
ESCA PROJECT NO. 1359.12
PLOT SCALE = 0:2.0000 = 1/8" = 1'-0"
PLOT DATE = 10/5/2023

DESIGNED - CTJ 04/23
CHECKED - ELH 07/23
DRAWN - KAH/NHC 07/23
CHECKED - ELH 07/23

REVISED -
REVISED -
REVISED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

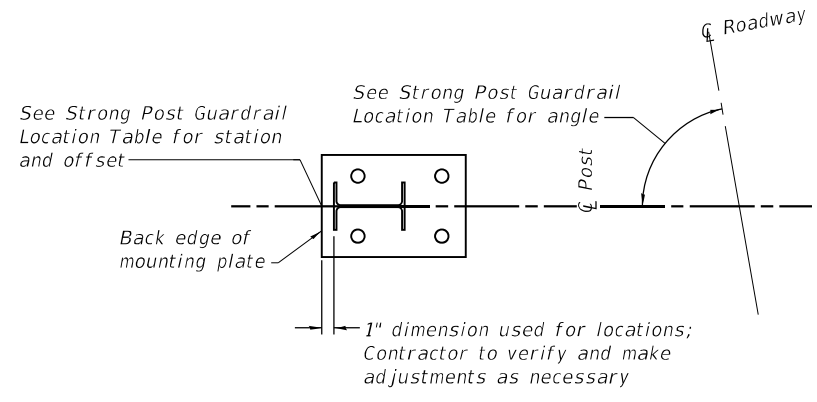
BOX CULVERT DETAILS
STRUCTURE NO. 033-2014

SHEET 9 OF 12 SHEETS

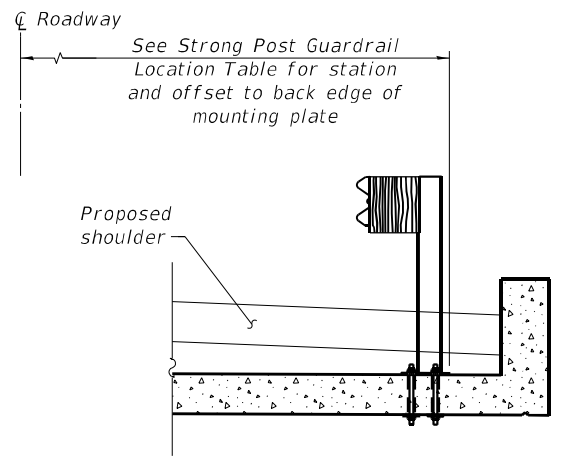
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
853	9B-1	HAMILTON	56	40

CONTRACT NO. 78830

ILLINOIS FED. AID PROJECT



MOUNTING PLATE DETAIL

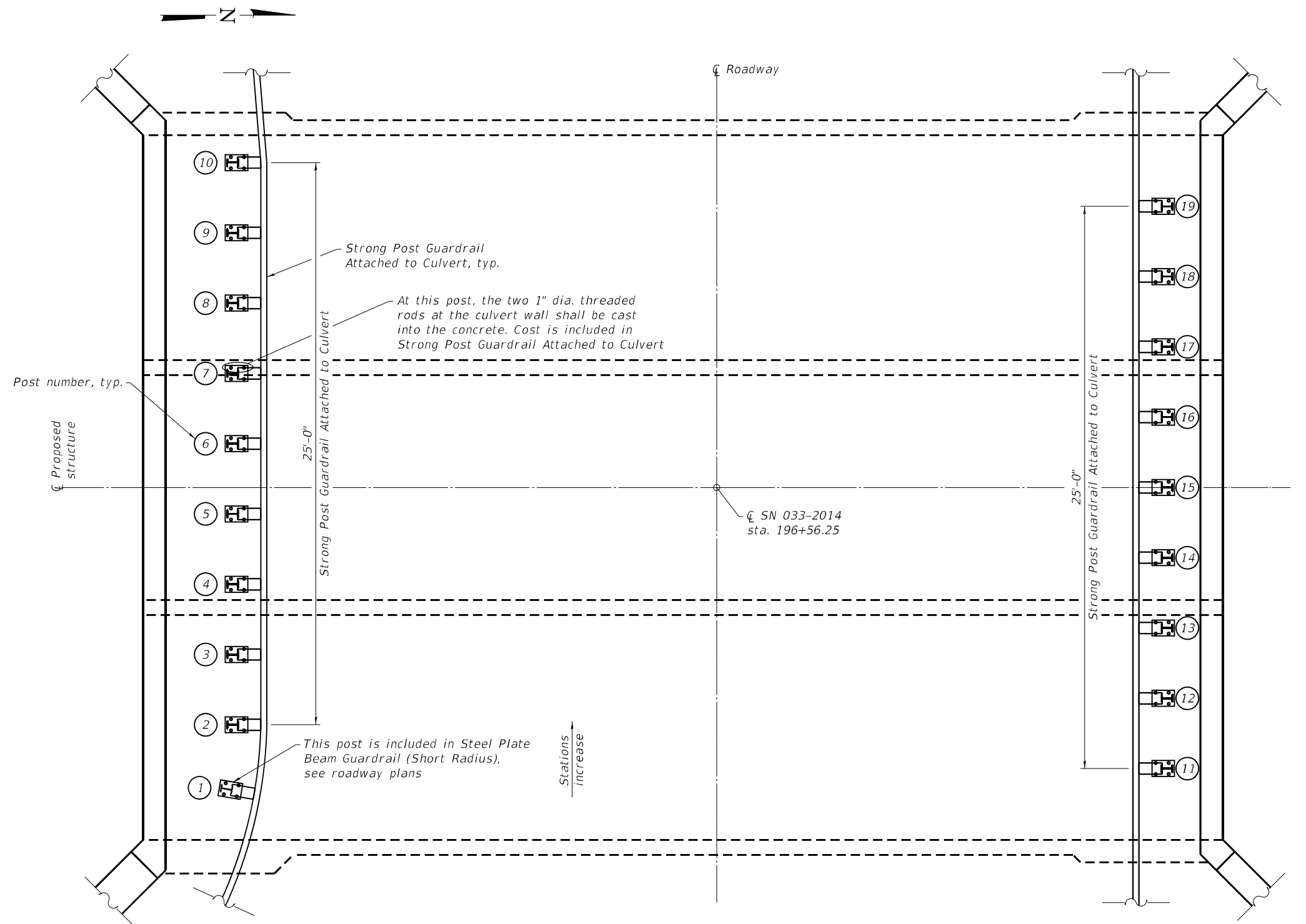


STRONG POST GUARDRAIL ATTACHED TO CULVERT DETAIL

See Std. 630101 for mounting plate and anchor rod details.
Space reinforcement to miss anchor rods.

STRONG POST GUARDRAIL LOCATION TABLE

POST NO.	STATION	OFFSET	ANGLE
1	196+42.90	22.11' LT	80.4058°
2	196+45.70	21.84' LT	90.0000°
3	196+48.82	21.84' LT	90.0000°
4	196+51.94	21.84' LT	90.0000°
5	196+55.07	21.84' LT	90.0000°
6	196+58.19	21.84' LT	90.0000°
7	196+61.32	21.84' LT	90.0000°
8	196+64.44	21.84' LT	90.0000°
9	196+67.57	21.84' LT	90.0000°
10	196+70.69	21.84' LT	90.0000°
11	196+43.75	20.34' RT	90.0000°
12	196+46.88	20.34' RT	90.0000°
13	196+50.00	20.34' RT	90.0000°
14	196+53.13	20.34' RT	90.0000°
15	196+56.25	20.34' RT	90.0000°
16	196+59.38	20.34' RT	90.0000°
17	196+62.50	20.34' RT	90.0000°
18	196+65.63	20.34' RT	90.0000°
19	196+68.75	20.34' RT	90.0000°



GUARDRAIL POST PLAN

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ESCA PROJECT NO. 1359.12
PLOT SCALE = 0.1667' / in.
PLOT DATE = 10/5/2023

DESIGNED - CTJ 04/23
CHECKED - ELH 07/23
DRAWN - KAH/NHC 07/23
CHECKED - ELH 07/23

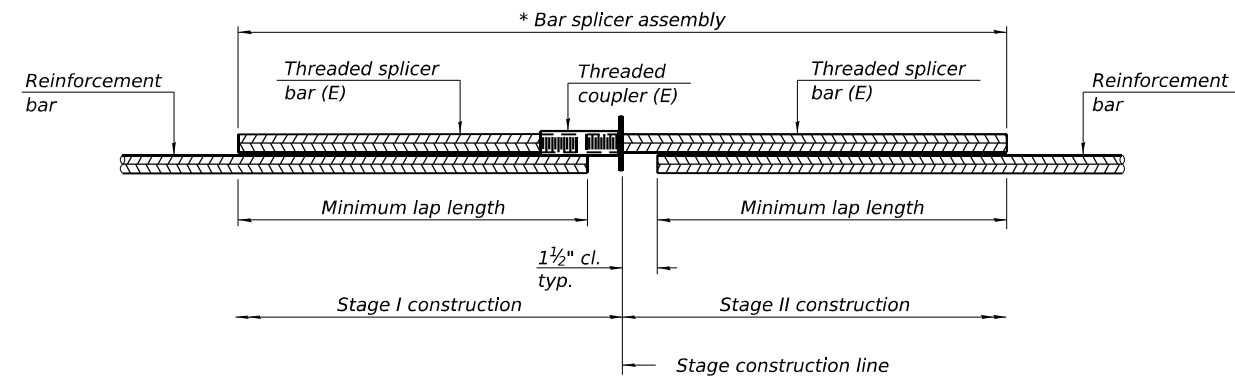
REVISED -
REVISED -
REVISED -
REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**BOX CULVERT DETAILS
STRUCTURE NO. 033-2014**

SHEET 10 OF 12 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
853	9B-1	HAMILTON	56	41
CONTRACT NO. 78830				
ILLINOIS FED. AID PROJECT				



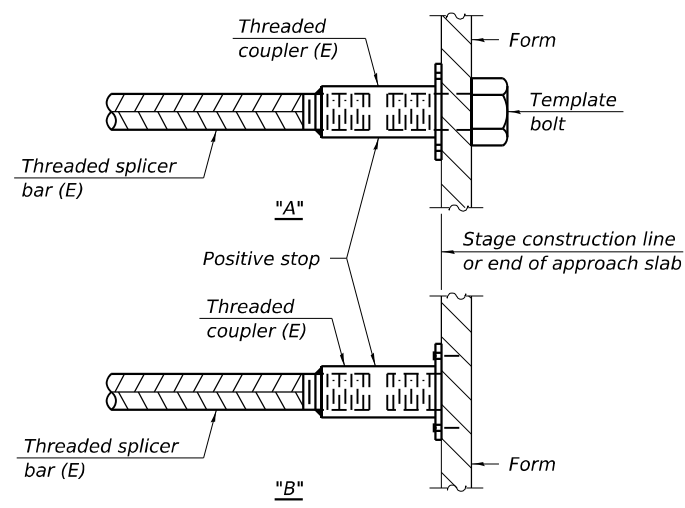
STANDARD BAR SPLICER ASSEMBLY PLAN

Only bar splicer assemblies as presented on the approved QPL list may be used.

Threaded splicer bar length = min. lap length + 1 1/2" + thread length

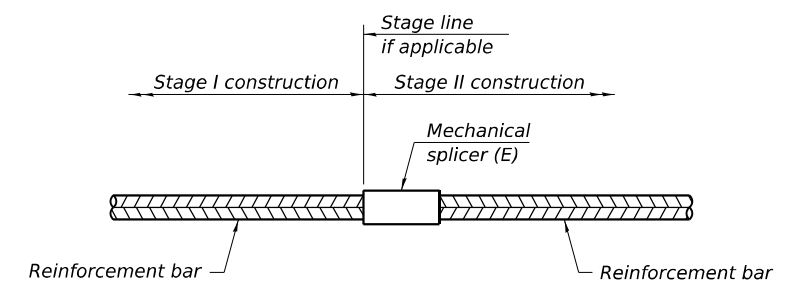
* Epoxy not required on Bar Splicer Assembly components used in conjunction with black bars.

Location	Bar size	No. assemblies required	Minimum lap length
Top of top slab	#5	39	3'-2"
Bottom of top slab	#5	39	3'-2"
Top of bottom slab	#5	39	3'-2"
Bottom of bottom slab	#5	39	3'-2"
Walls	#5	36	3'-7"



INSTALLATION AND SETTING METHODS

"A" : Set bar splicer assembly by means of a template bolt.
 "B" : Set bar splicer assembly by nailing to wood forms or cementing to steel forms.
 (E) : Indicates epoxy coating.



STANDARD MECHANICAL SPLICER

Location	Bar size	No. assemblies required
NA		

Notes:
 Splicer bars shall be deformed with threaded ends and have a minimum 60 ksi yield strength.
 All reinforcement shall be lapped and tied to the splicer bars.
 Bar splicer assemblies shall be epoxy coated according to the requirements for reinforcement bars. See Section 508 of the Standard Specifications.
 See approved list of bar splicer assemblies and mechanical splicers for alternatives.

MODEL: PLOT FILE NAME: Y:\IDOT\1359-12_78830\CADD\SP_SN_033-2014\0332014-78830-11-BSD.dgn

BSD-1 5-15-2023



USER NAME = kah	DESIGNED - ELH 10/23	REVISED -
ESCA PROJECT NO. 1359.12	CHECKED - ELH 10/23	REVISED -
PLOT SCALE = 0.1667' / in.	DRAWN - KAH 10/23	REVISED -
PLOT DATE = 10/11/2023	CHECKED - ELH 10/23	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

BAR SPLICER ASSEMBLY DETAILS
 STRUCTURE NO. 033-2014

SHEET 11 OF 12 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
853	9B-1	HAMILTON	56	42
CONTRACT NO. 78830				
ILLINOIS FED. AID PROJECT				



SOIL BORING LOG

ROUTE IL 14 DESCRIPTION Bridge over Bear Creek LOGGED BY L. Estel

SECTION 9, 2BY LOCATION Int. with Fairground Rd (Near E. Abut.), SEC. 16, TWP. 5S, RNG. 6E, PM

COUNTY Hamilton DRILLING METHOD Hollow Stem Auger (8" O.D., 3.25" I.D.) HAMMER TYPE Auto SPT 140 lbs

STRUCT. NO. 033-0004
Station 196+50
BORING NO. 1-S
Station 196+75
Offset 12.0ft Rt
Ground Surface Elev. 423.4 ft

Surface Water Elev. 414.7 ft
Stream Bed Elev. 414.7 ft
Groundwater Elev.:
First Encounter 403.9 ft
Upon Completion
After Hrs.

DEPTH (ft) BLOW S Qu T (tsf) (%)

DEPTH (ft)	BLOW S	Qu	T	(tsf)	(%)	DESCRIPTION
422.53						Cored Pavement, 10.5" of HMA
						Soft Brown and Tan, Moist SILTY CLAY LOAM
	1			0.4	24	
	1			B		
418.90						V. Soft Brown, Moist SILTY CLAY LOAM
	1			0.1	21	
	2			B		
						(Soft)
	1			0.3	25	
	2			B		
413.90						Soft Grey, Moist SILTY CLAY
	1			0.3	25	
	2			B		
411.40						M. Stiff Brown, Moist SILTY CLAY LOAM
	1			0.7	19	
	3			B		
	5					
	3			0.6	20	
	2			B		
406.40						V. Dense Brown and Tan, Damp Weathered SANDSTONE
	5				13	
	33					
	40					
403.90						Hard Brown and Tan, Damp
	100/6'				16	

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer, E-Estimated) Abbreviations W.O.H - Sampler Advanced By Weight of Hammer, W.O.P - Advanced by Weight of Pipe, B.S. - Before Seating The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206) BBS, from 137 (Rev. 8-99)



SOIL BORING LOG

ROUTE IL 14 DESCRIPTION Bridge over Bear Creek LOGGED BY L. Estel

SECTION 9, 2BY LOCATION Int. with Fairground Rd (Near W. Abut.), SEC. 16, TWP. 5S, RNG. 6E, PM

COUNTY Hamilton DRILLING METHOD Hollow Stem Auger (8" O.D., 3.25" I.D.) HAMMER TYPE Auto SPT 140 lbs

STRUCT. NO. 033-0004
Station 196+50
BORING NO. 2-S
Station 196+15
Offset 12.0ft Lt
Ground Surface Elev. 423.1 ft

Surface Water Elev. 414.7 ft
Stream Bed Elev. 414.7 ft
Groundwater Elev.:
First Encounter 410.6 ft
Upon Completion
After Hrs.

DEPTH (ft) BLOW S Qu T (tsf) (%)

DEPTH (ft)	BLOW S	Qu	T	(tsf)	(%)	DESCRIPTION
422.23						Cored Pavement, 10.5" of HMA
						Stiff Brown, Moist SILTY CLAY
	2			1.1	17	
	2			S		
	3					
418.60						V. Soft Brown, Very Moist to Wet SILTY CLAY
	1			0.1	32	
	2			B		
						Bottom of hole at 19.8 feet
						Hammer efficiency: 86.5% To convert "N" value to "N60", multiply by 1.44
416.10						V. Soft Brown and Tan, Moist SILTY CLAY
	1			0.2	26	
	1			B		
						Ground surface elevation referenced to BM 0619; Square cut in top of Wing Wall @ SE Corner of SN 033-0004; EL 423.63
413.60						V. Stiff Brown and Tan, Moist SILTY CLAY
	3			2.1	20	
	5			S		
	3					
411.10						M. Stiff Brown with Grey streaks, Moist SILTY CLAY
	1			0.7	19	
	4			S		
	6					
408.60						Soft Brown and Grey, Moist SILTY CLAY LOAM
	2			0.4	22	
	3			S		
	3					
406.10						V. Dense Brown, Moist Weathered SANDSTONE
	6			2.1	18	
	29			B		
	30					
403.60						Hard Grey, Damp Weathered
	100/4'					

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer, E-Estimated) Abbreviations W.O.H - Sampler Advanced By Weight of Hammer, W.O.P - Advanced by Weight of Pipe, B.S. - Before Seating The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206) BBS, from 137 (Rev. 8-99)

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Latitude 38 05 21.46 Longitude -88 32 52.86 Datum NAD83 Job Number

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USER NAME = IRC	DESIGNED - CTJ	04/23	REVISED -
ESCA PROJECT NO. 1359.12	CHECKED - ELH	06/23	REVISED -
PLOT SCALE = 0.1667' / in.	DRAWN - KAH	04/23	REVISED -
PLOT DATE = 10/5/2023	CHECKED - ELH	06/23	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BORING LOGS
STRUCTURE NO. 033-2014

SHEET 12 OF 12 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
853	9B-1	HAMILTON	56	43
CONTRACT NO. 78830				
ILLINOIS FED. AID PROJECT				

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

100%
11-16-2009

**PROPOSED
HIGHWAY PLANS**

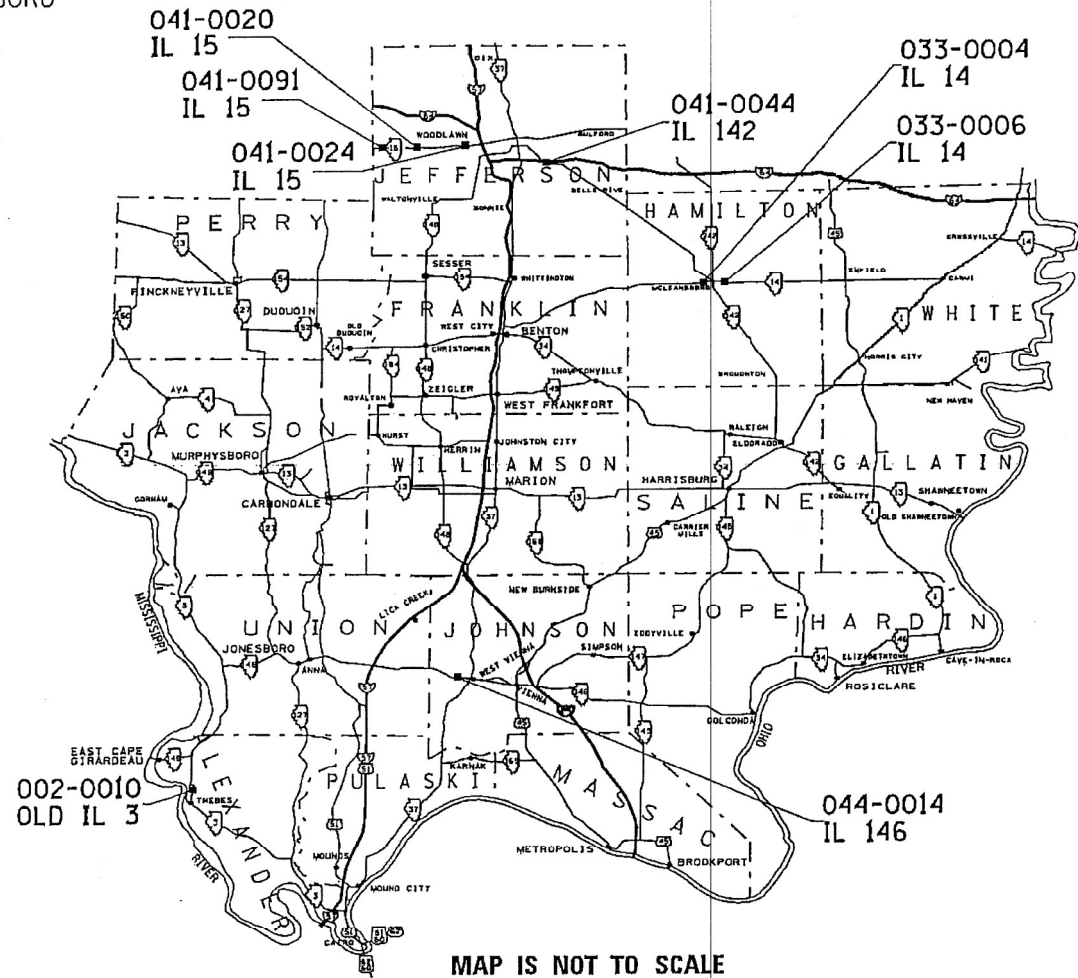
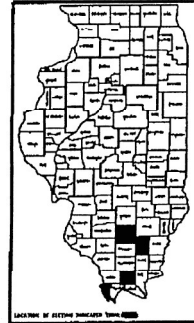
VARIOUS ROUTES
SECTION D9 SCOUR REPAIR 2009-1
VARIOUS COUNTIES

C-99-035-09

TOWNSHIPS:
THEBES
MCLEANSBORO
CASNER
SHILOH
DODDS
ELVIRA

VARIOUS ROUTES
D9 SCOUR REPAIR 2009-1
VARIOUS COUNTIES
CONTRACT NO. 78114
SHEET 1 OF 23

D-99-019-09



PROJECT ENGINEER: DENNIS MULLEBRENNER 549-2171 CENTREX 782-4554
SQUAD LEADER: RICHARD BRAZEL



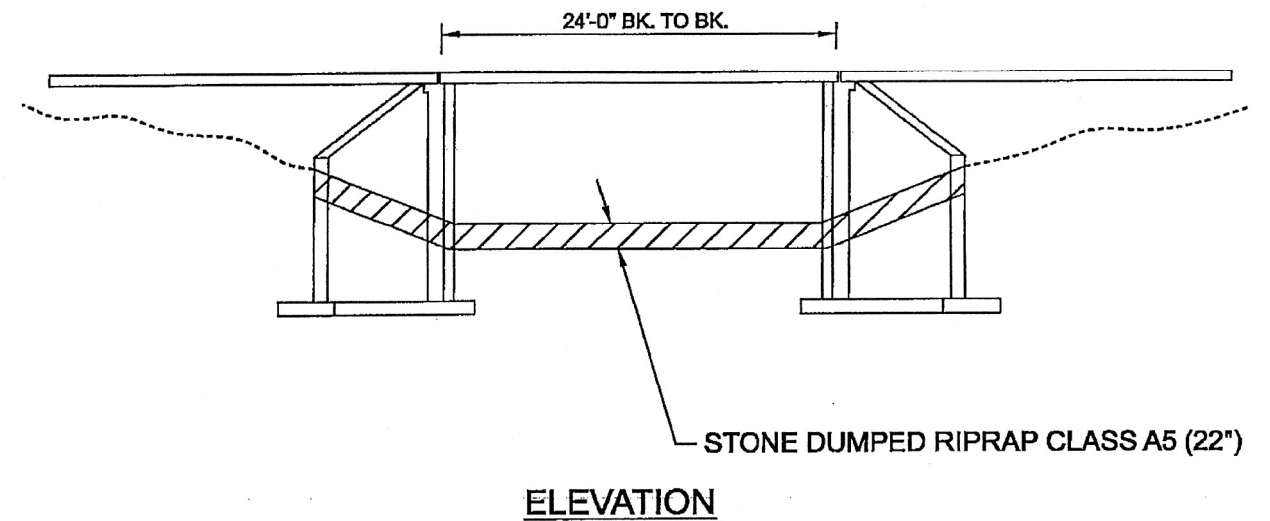
JULIE 1-800-892-0123

MAP IS NOT TO SCALE

FOR SIGNATURE SHEET, SEE SHEET NO. 2
FOR INDEX OF SHEETS, SEE SHEET NO. 3
FOR SUMMARY OF QUANTITIES, SEE SHEET NO. 5
CONTRACT NO. 78114

033-0004

VARIOUS ROUTES
D9 SCOUR REPAIR 2009-1
VARIOUS COUNTIES
CONTRACT NO. 78114
SHEET 9 OF 23



BILL OF MATERIAL	
STONE DUMPED RIPRAP, CLASS A5	205 TON
CHANNEL EXCAVATION	135 CU. YD.

Notes: Riprap quantity includes approximately 2 tons to be placed as directed by the Engineer under the bridge where needed.

SEE SHEET 23 OF 23 FOR TOE DETAILS.

S/N 033-0004

MODEL_PLOT
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ESCA PROJECT NO. 1359.12
PLOT SCALE = 0.1667' / in.
PLOT DATE = 10/5/2023

DESIGNED - IRC
DRAWN - IRC
CHECKED - ELH
DATE - 07/23

REVISED -
REVISED -
REVISED -
REVISED -

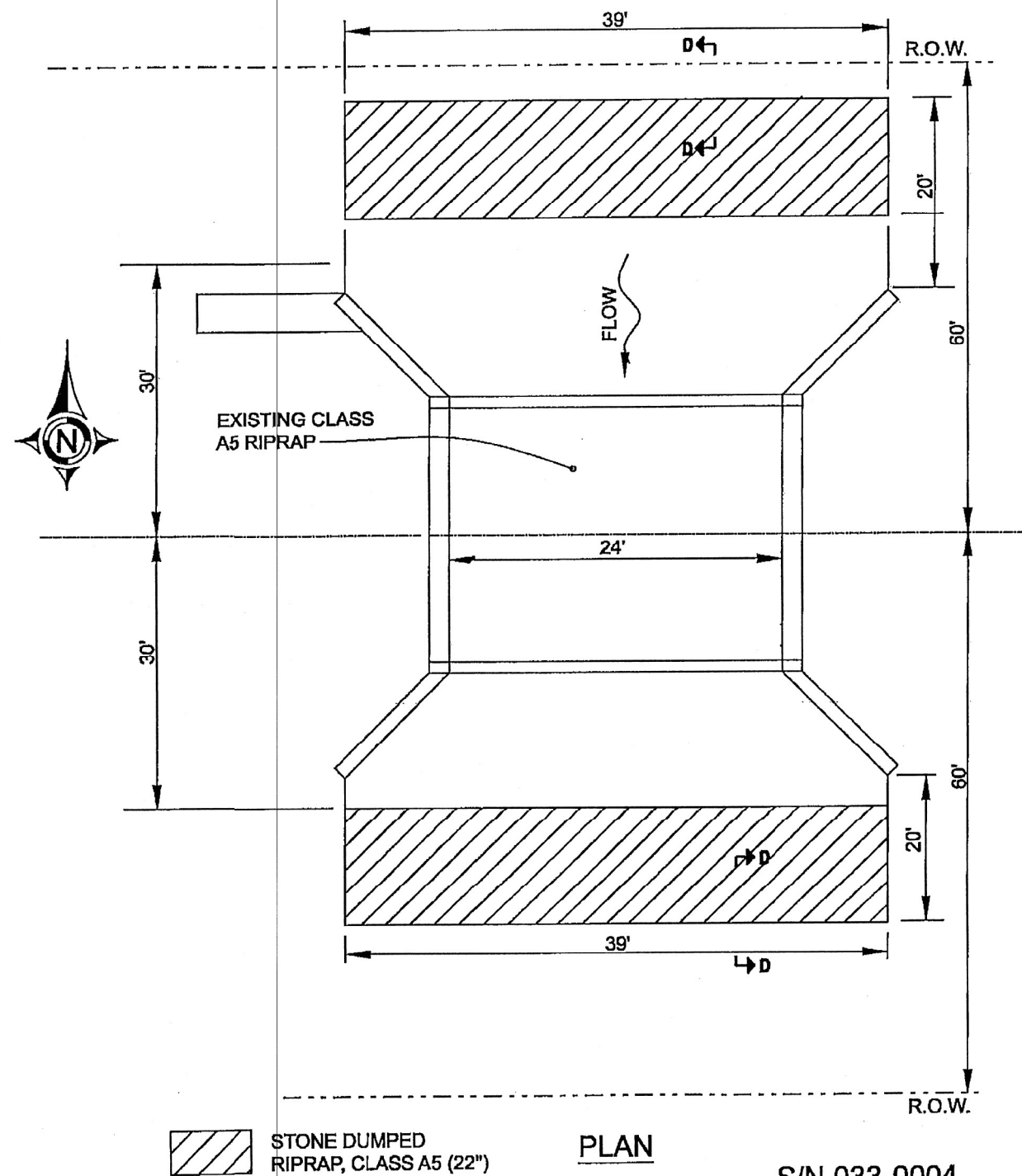
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SN 033-0004 EXISTING STRUCTURE PLANS
FOR INFORMATION ONLY

SCALE: AS SHOWN SHEET NO. 1 OF 6 SHEETS STA. TO STA.

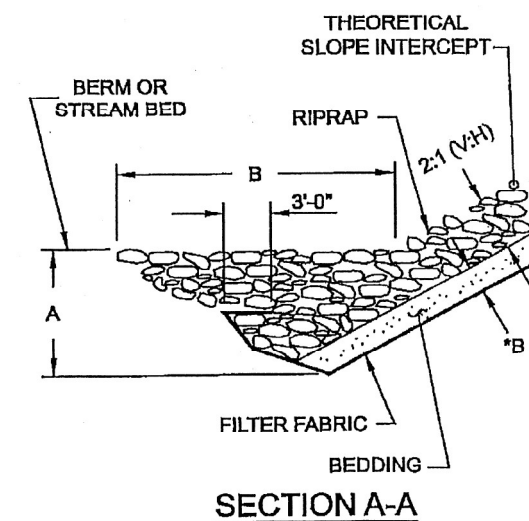
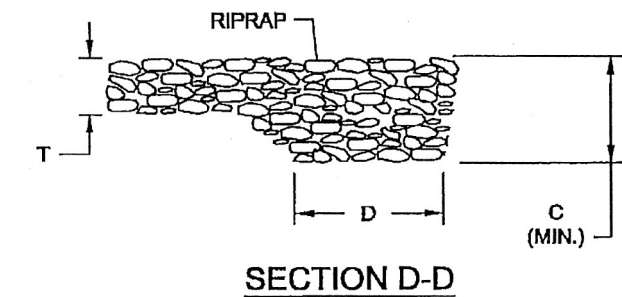
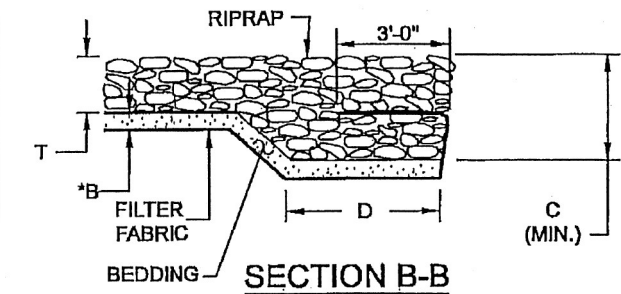
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
853	9B-1	HAMILTON	56	44
			CONTRACT NO. 78830	
		ILLINOIS	FED. AID PROJECT	

VARIOUS ROUTES
D9 SCOUR REPAIR 2009-1
VARIOUS COUNTIES
CONTRACT NO. 78114
SHEET 10 OF 23



VARIOUS ROUTES
D9 SCOUR REPAIR 2009-1
VARIOUS COUNTIES
CONTRACT NO. 78114
SHEET 23 OF 23

RIPRAP CLASS A	T	*B	C	D
RR4	16"	6"	2'-8"	4'-0"
RR5	22"	8"	3'-8"	5'-6"
RR6	26"	10"	4'-4"	6'-6"
RR7	30"	12"	5'-0"	7'-6"



RIPRAP CLASS A	T	*B	A	B
RR4	16"	6"	4'	8'
RR5	22"	8"	5'	10'
RR6	26"	10"	6'	12'
RR7	30"	12"	7'	14'

STONE RIPRAP - TYPICAL DETAILS

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ESCA PROJECT NO. 1359.12
PLOT SCALE = 0.1667' / in.
PLOT DATE = 10/5/2023

DESIGNED - IRC
DRAWN - IRC
CHECKED - ELH
DATE - 07/23

REVISED -
REVISED -
REVISED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SN 033-0004 EXISTING STRUCTURE PLANS
FOR INFORMATION ONLY

SCALE: AS SHOWN SHEET NO. 2 OF 6 SHEETS STA. TO STA.

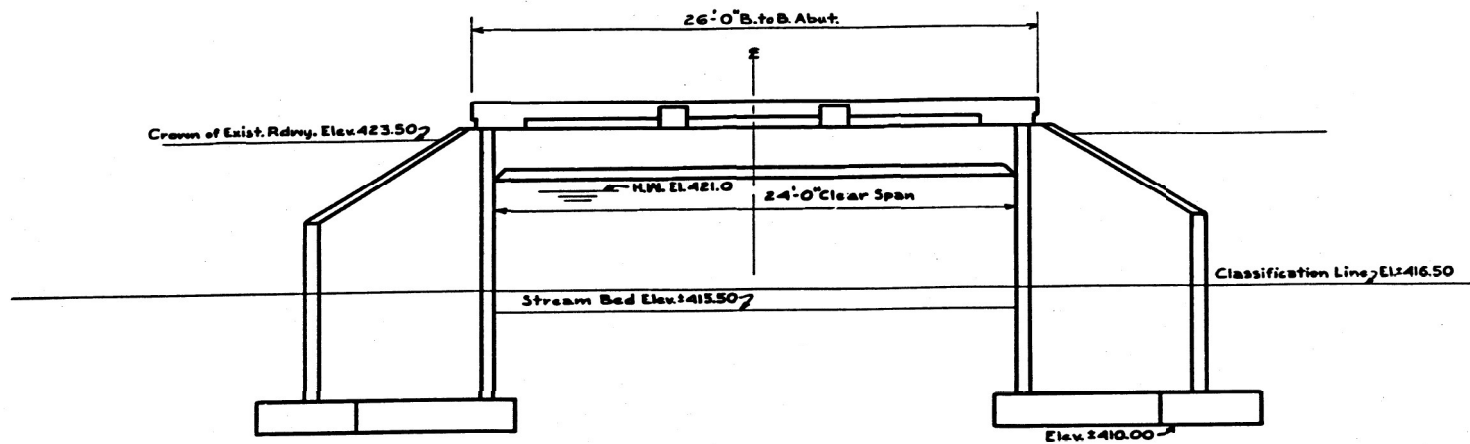
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
853	9B-1	HAMILTON	56	45
CONTRACT NO. 78830			ILLINOIS FED. AID PROJECT	

STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 1
833	9B-1	HAMILTON	9	4	3 SHEETS
F.A. 178 BY Hamilton					
FOR ROAD DIST. NO. 7 ILLINOIS FOR AIR PROJECT					

B.M. Top N.E. Wing Wall Existing Bridge
Elev. 423.50

Existing Bridge R.C. Slab 24' F.F. Abut.
20' Roadway on Conc. Abut.
Handrail and other concrete
to be removed as shown on
plans.



ELEVATION
Scale 1/2" = 1'-0"

GENERAL NOTES

Class X Concrete shall be used throughout except as noted.
Floor Slab shall be poured in one continuous operation on either side of exist. struct.
Floor Slab shall be finished in accordance with Section 29 of the Standard Specifications adopted Jan. 2, 1932.

Handrail Concrete shall be used in Rails and Posts.
Handrail Concrete shall not be poured until after falsework has been removed.
Contract unit price for each Expansion Bolt shall include furnishing, drilling of holes and setting of bolts.

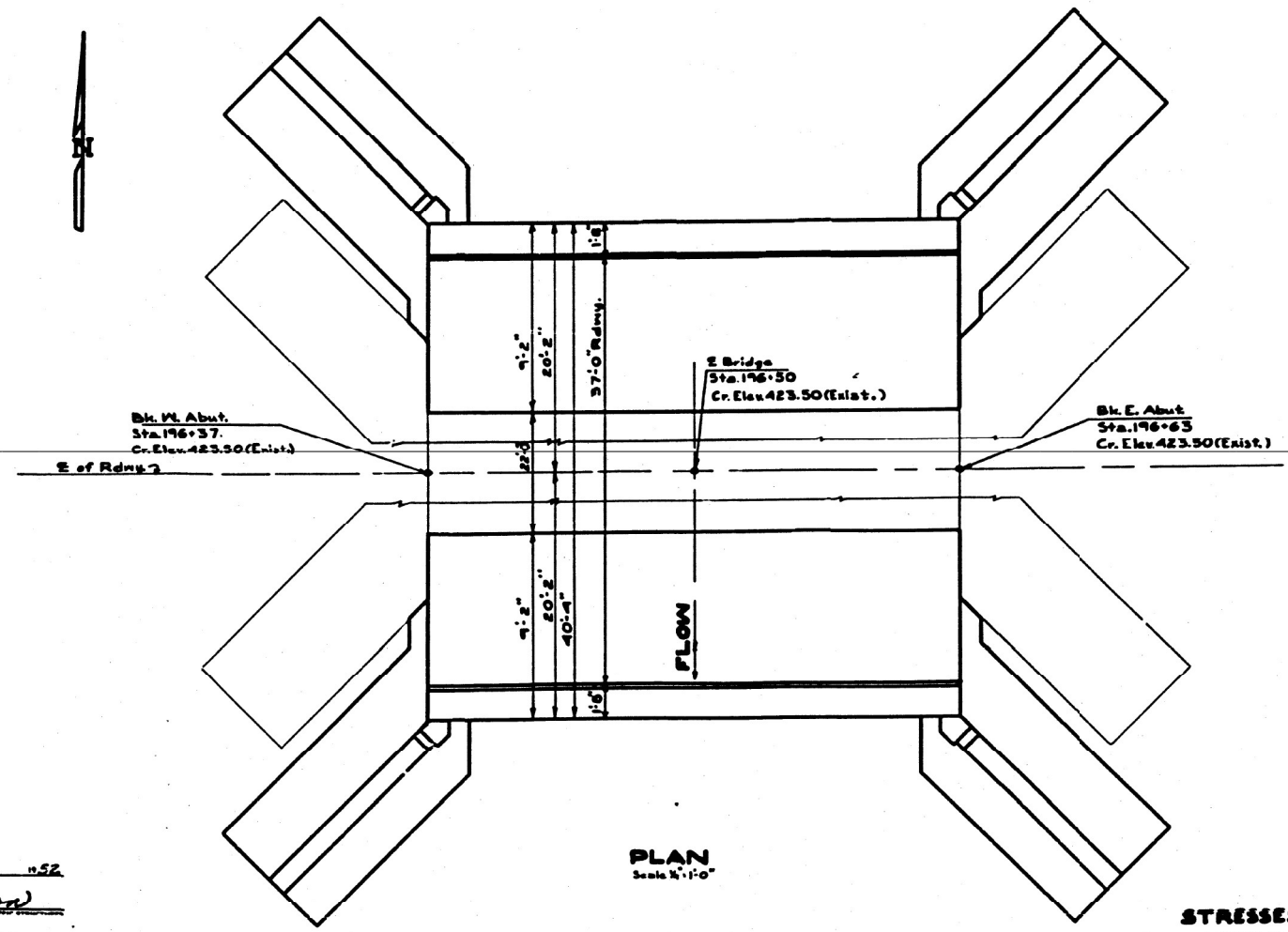
Class "A" Excavation includes all excavation for Structure above classification line.
Class "B" Excavation includes all excavation for Structure below classification line.
Waterproof back of abutments and wing walls to top of footing.

WATERWAY INFORMATION

Drainage Area	1600 acres
Character	Level, Cultivated
Talbots	C + 0.4
Opening Required	103 sq. ft.
Present Opening	108 sq. ft.
Proposed Opening	108 sq. ft.

STATION 196+50
BUILT 193 BY
STATE OF ILLINOIS
S.B.I. RT. 14 SEC. 9-BY
LOADING H-20

LETTERING FOR NAME PLATE
See Standard 1880



PLAN
Scale 1/2" = 1'-0"

TOTAL BILL OF MATERIAL

ITEM	SUPER	SUB	TOTAL	
Class X Concrete	Cu. Yds	22.1	30.9	73.0
Handrail Concrete	Cu. Yds	1.2		1.2
Reinforcement Bars	Lbs.	5710	3000	8710
Masonry	Cu. Yds	6.6	1.0	7.6
Expansion Bolts	Each	52	20	72
Class "A" Excavation for Struc.	Cu. Yds		50	50
Class "B" Excavation for Struc.	Cu. Yds		176	176
Name Plates	Each	1		1

STRESSES

f_c 1400 #/sq Superstructure
f_c 800 #/sq Substructure
f_s 20000 #/sq Reinforcement Bars
n 10

GENERAL PLAN/ELEVATION
S.B.I. RT. 14 - SEC. 9-2 BY
HAMILTON COUNTY
STA. 196+50

Loading H20-44

DESIGNED *A. J. Harris*
CHECKED *M. J. Rice*
DRAWN *A. J. Harris* Stone
APPROVED *F. N. Barber*

EXAMINED *W. E. Howard*
PASSED *E. J. Howard*
APPROVED *F. N. Barber*

Apr 1 1952

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PLOT SCALE = 0.1667 1/ in.	CHECKED - ELH	REVISED -
PLOT DATE = 10/5/2023	DATE - 07/23	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

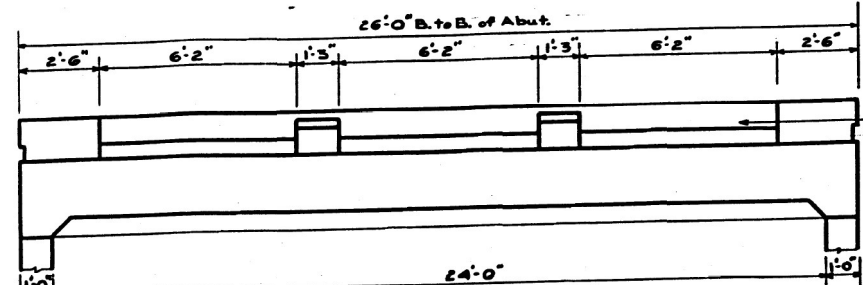
SN 033-0004 EXISTING STRUCTURE PLANS
FOR INFORMATION ONLY

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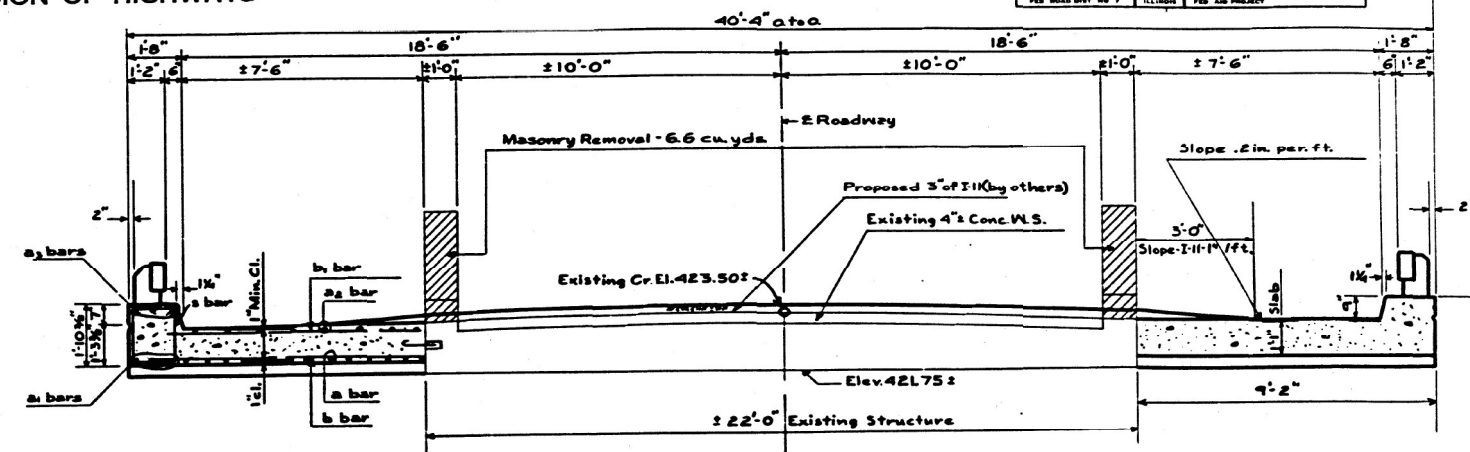
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
833	9B-1	HAMILTON	56	46
CONTRACT NO. 78830				
ILLINOIS FED. AID PROJECT				

STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS

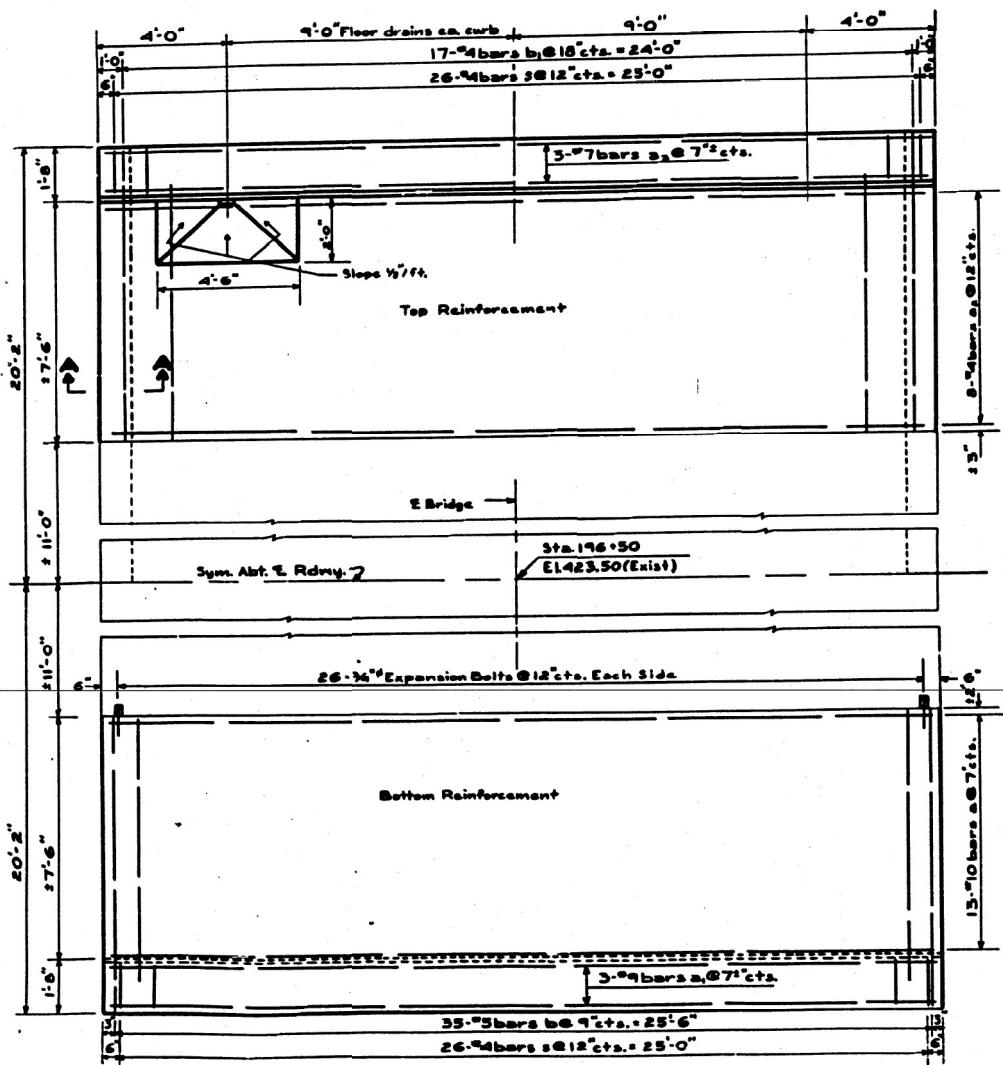
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S.B.I. 14	9B-1	HAMILTON	9	5
SHEET NO. 2 3 SHEETS				



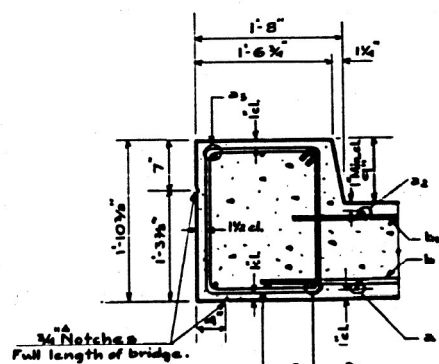
ELEVATION



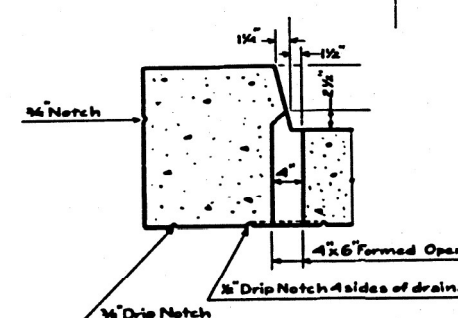
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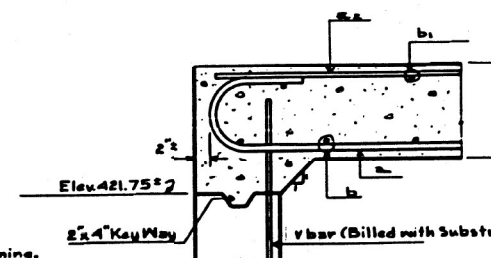
DECK PLAN



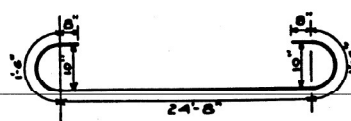
CURB DETAIL



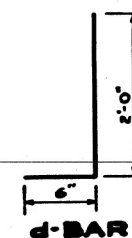
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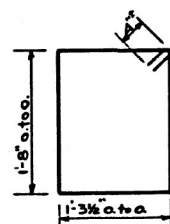
SECTION A-A



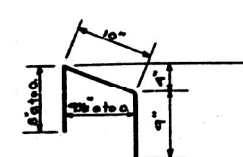
3-BAR



d-BAR



s-BAR



r-BAR

BILL OF MATERIAL

BAR NO.	SIZE	LGTH	SHAPE
b	70	25	5'-6"
b	34	24	5'-3"
a	26	70	24'-0"
a ₁	6	24	25'-6"
a ₂	16	24	25'-6"
a ₃	6	27	25'-6"
d	56	25	2'-6"
r	16	24	2'-3"
s	52	24	6'-4"
a	8	25	23'-9"

Class X Concrete	Cu. Yds.	2.21
Handrail Concrete	Cu. Yds.	1.2
Reinforcement Bars	Lbs.	5710
Masonry Removal	Cu. Yds.	6.6
Name Plates	Each	1
Expansion Bolts	Each	52

Note: All bars shall be round ASTM A305-49
The size number is the number of 16 inches in the nominal diameter.

DESIGNED	<i>A. J. Harris</i>	EXAMINED	<i>W. B. Howard</i>
CHECKED	<i>M. J. Rice</i>	PASSED	<i>C. L. Herring</i>
DRAWN	<i>A. J. Harris</i> Stone	APPROVED	<i>F. N. Barber</i>
CHECKED	<i>M. J. Rice</i>		

SUPERSTRUCTURE
S.B.I. RT. 14 SEC. 9-2 BY
HAMILTON COUNTY
STA. 196+50

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SN 033-0004 EXISTING STRUCTURE PLANS
FOR INFORMATION ONLY

SCALE: AS SHOWN SHEET NO. 4 OF 6 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
853	9B-1	HAMILTON	56	47
CONTRACT NO. 78830				
ILLINOIS FED. AID PROJECT				

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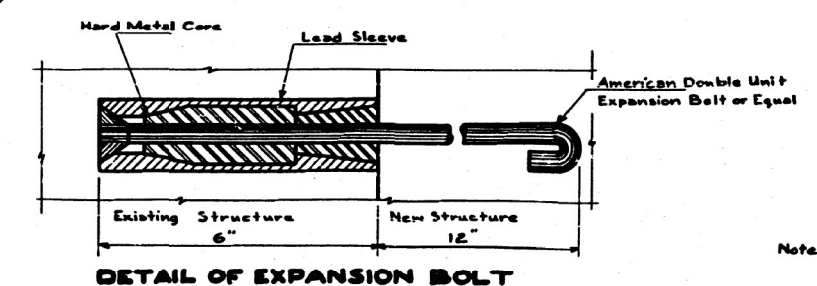
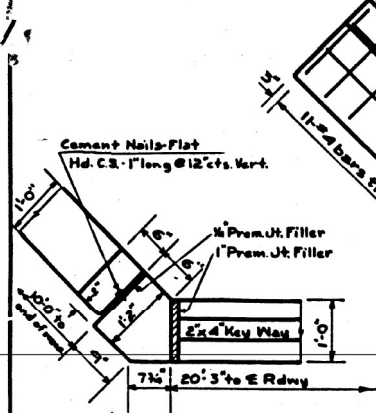
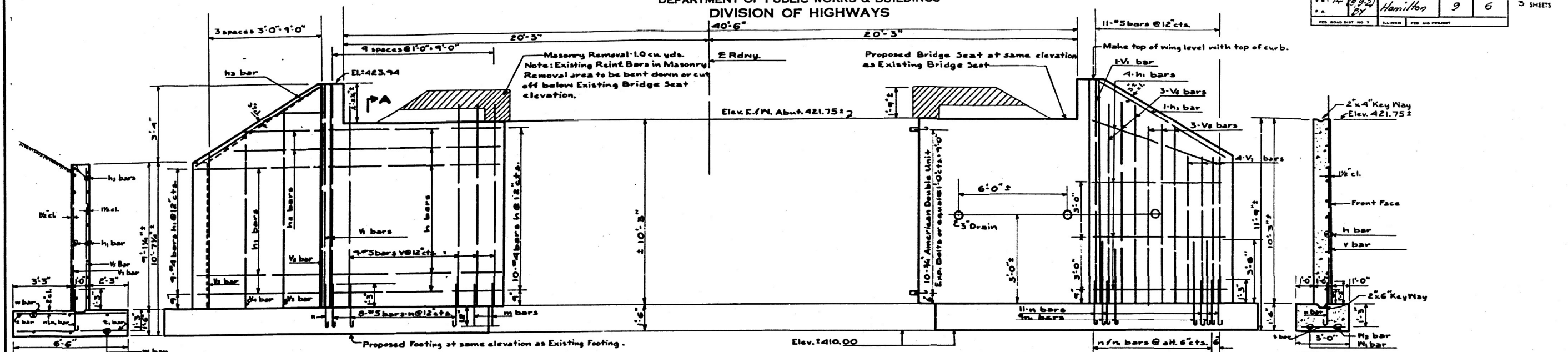
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PLOT SCALE	= 0.1667 1/16"
PLOT DATE	= 10/5/2023

DESIGNED	- IRC	REVISED	-
DRAWN	- IRC	REVISED	-
CHECKED	- ELH	REVISED	-
DATE	- 07/23	REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
14	9-2	Hamilton	9	6
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

SHEET NO. 3
3 SHEETS



BILL OF MATERIAL

BAR NO.	SIZE	LENGTH	SHAPE
h	#4	9'-6"	U
h1	#4	7'-6"	U
h2	#4	5'-3"	U
h3	#4	10'-0"	U
m	#3	2'-3"	U
n	#3	3'-6"	U
n1	#3	3'-9"	U
t	#4	2'-6"	U
t1	#4	6'-0"	U
v	#3	11'-3"	U
w	#5	12'-3"	U
v2	#4	12'-3"	U
v3	#4	11'-0"	U
w2	#4	10'-0"	U
v4	#4	9'-0"	U
v5	#5	11'-3"	U
v6	#5	9'-0"	U
v7	#5	10'-3"	U
w	#4	11'-3"	U
w1	#4	5'-0"	U
w2	#4	8'-0"	U
s	#4	6'-0"	U

Class X Concrete	Cu.Yds	50.9
Reinforcement Bars	Lbs	3000
Masonry Removal	Cu.Yds	1.0
Expansion Bolts	Each	20
Class A Excavation	Cu.Yds	50
Class B Excavation	Cu.Yds	176

Note: All bars shall be round ASTM A305-49
The size number is the number of 7/8 inches
in the nominal diameter.
ABUTMENTS/WINGS
S.B.I. RT.14-SEC. 9-2 BY
HAMILTON COUNTY
STA. 196+50

DESIGNED *S. J. Harris*
CHECKED *M. J. R.*
DRAWN *S. J. Harris*
CHECKED *M. J. R.*

EXAMINED *W. E. Hanson*
PASSED *E. J. ...*
APPROVED *J. M. Barker*

Apr 7 1952

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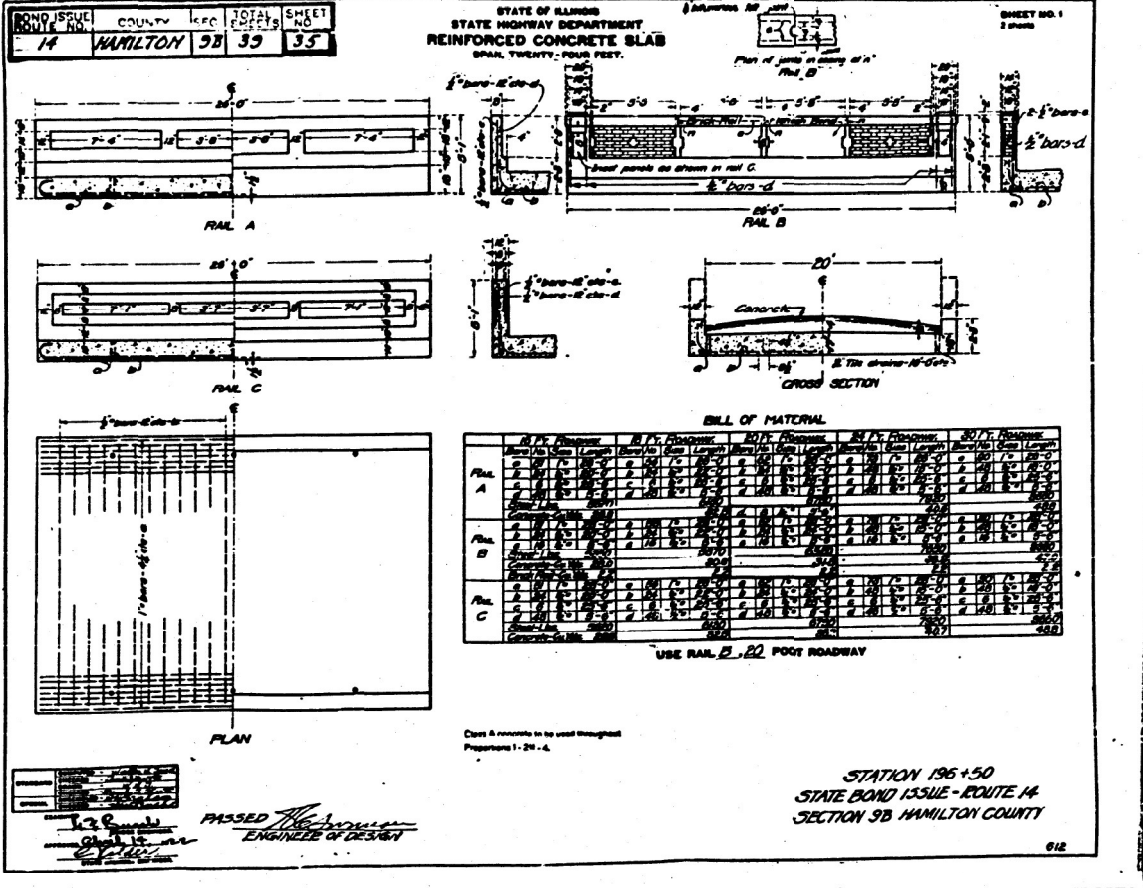
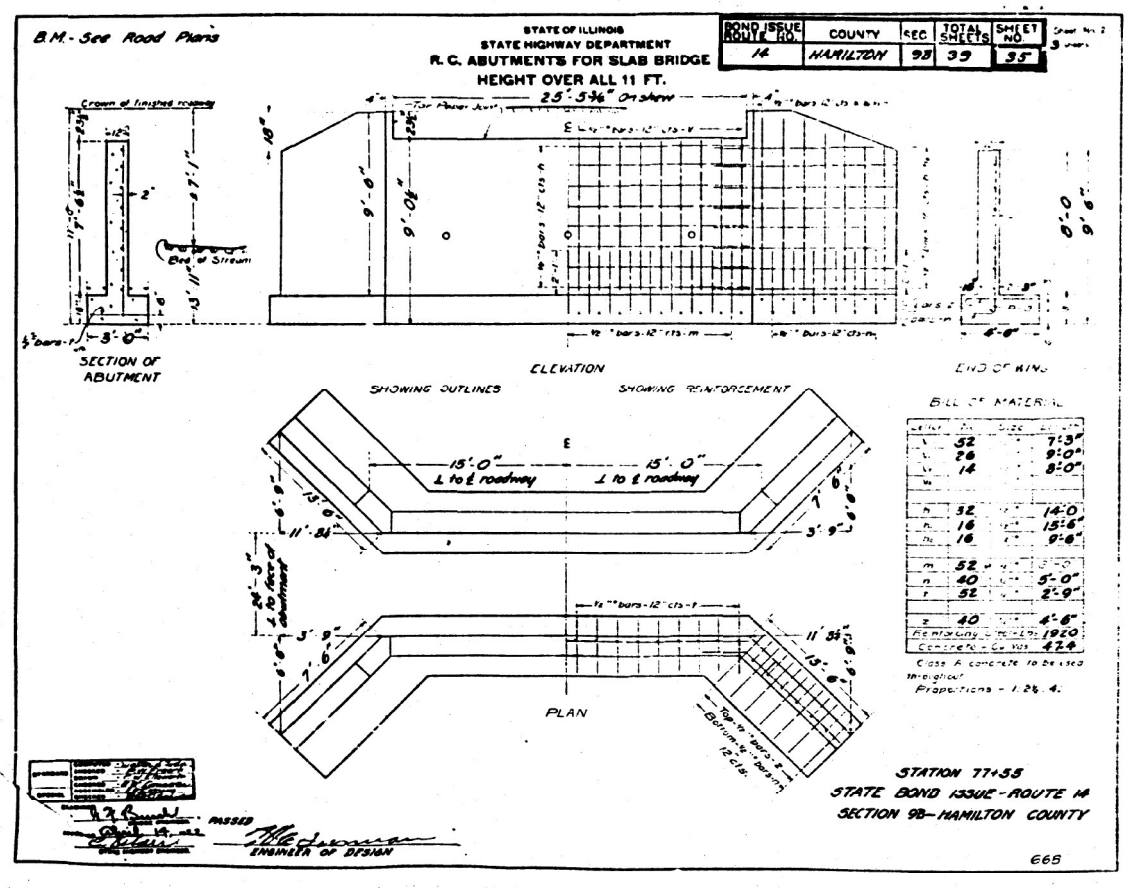
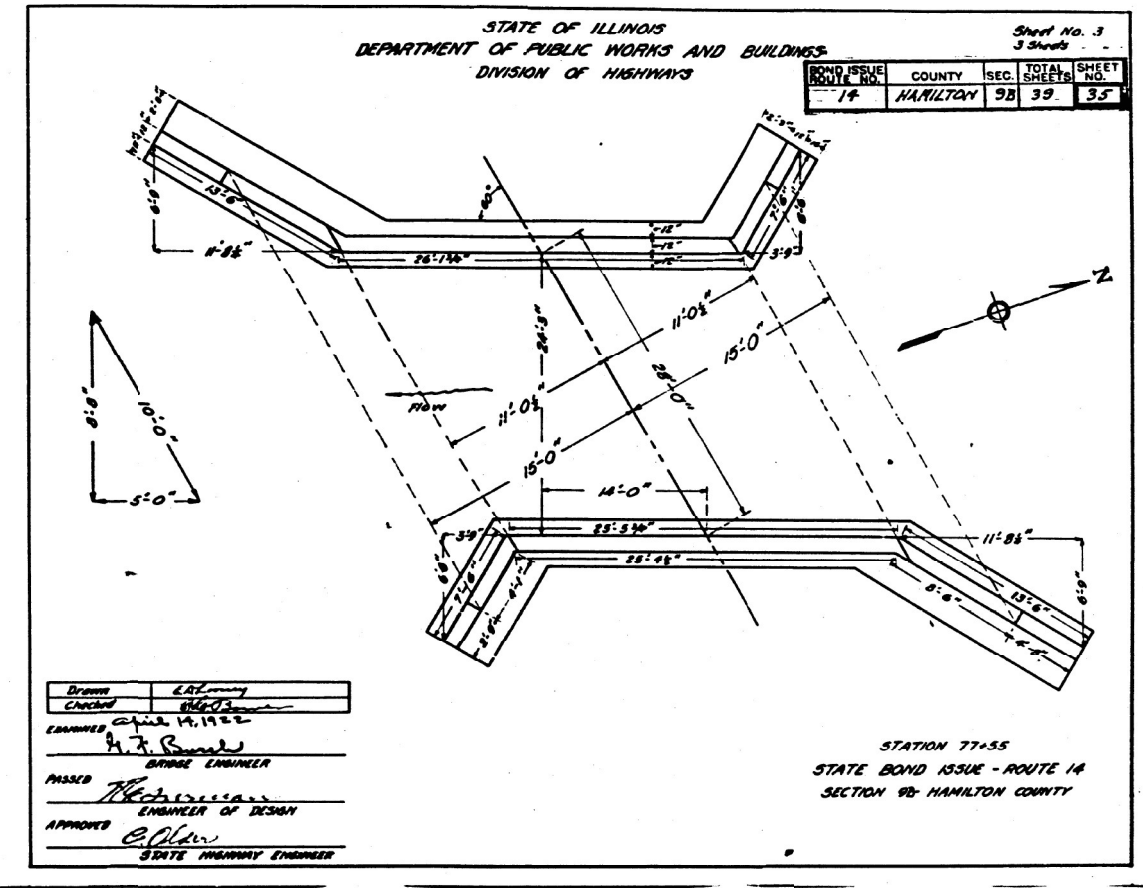
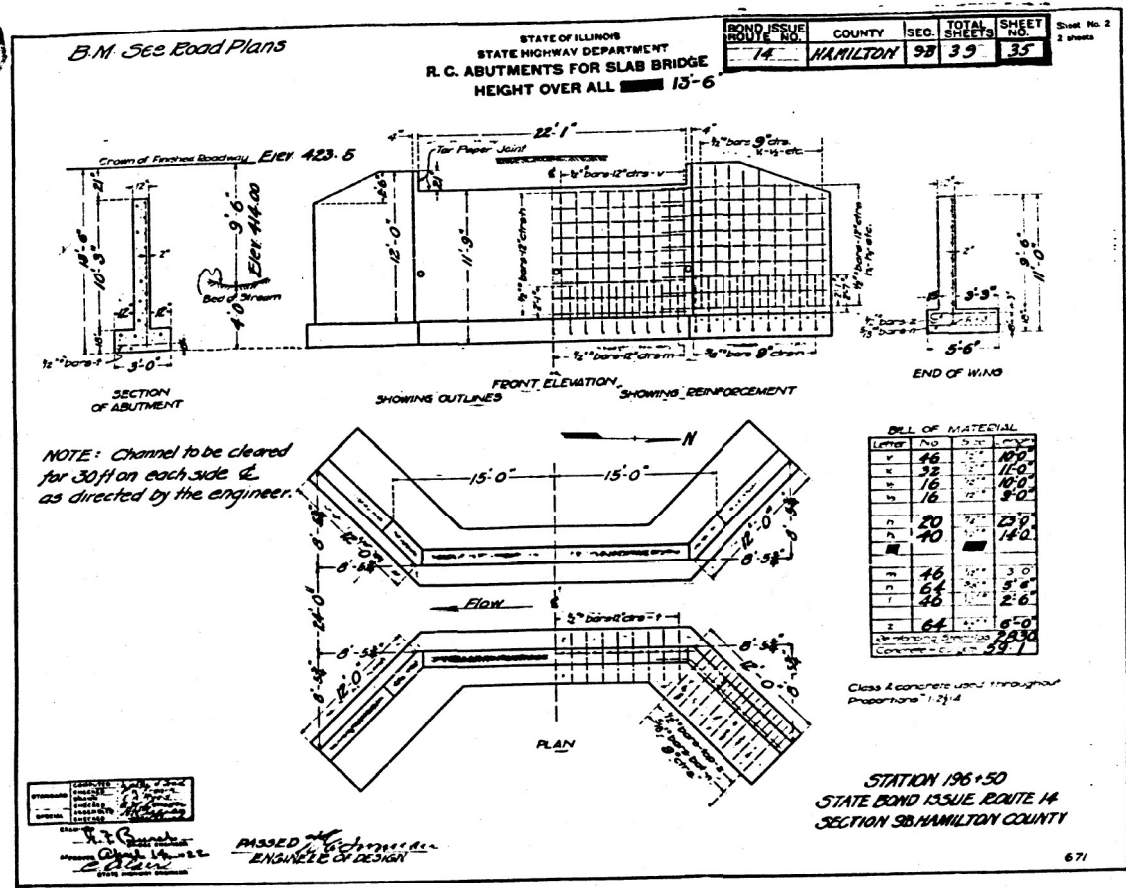


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ESCA PROJECT NO. 1359.12	DRAWN - IRC	REVISED -
PLOT SCALE = 0.1667 1/16"	CHECKED - ELH	REVISED -
PLOT DATE = 10/5/2023	DATE - 07/23	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SN 033-004 EXISTING STRUCTURE PLANS
FOR INFORMATION ONLY
SCALE: AS SHOWN SHEET NO. 5 OF 6 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
853	9B-1	HAMILTON	56	48
CONTRACT NO. 78830				
ILLINOIS FED. AID PROJECT				



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ESCA PROJECT NO. 1359.12
PLOT SCALE = 0.1667 1/16"
PLOT DATE = 10/5/2023

DESIGNED - IRC
DRAWN - IRC
CHECKED - ELH
DATE - 07/23

REVISED -
REVISED -
REVISED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

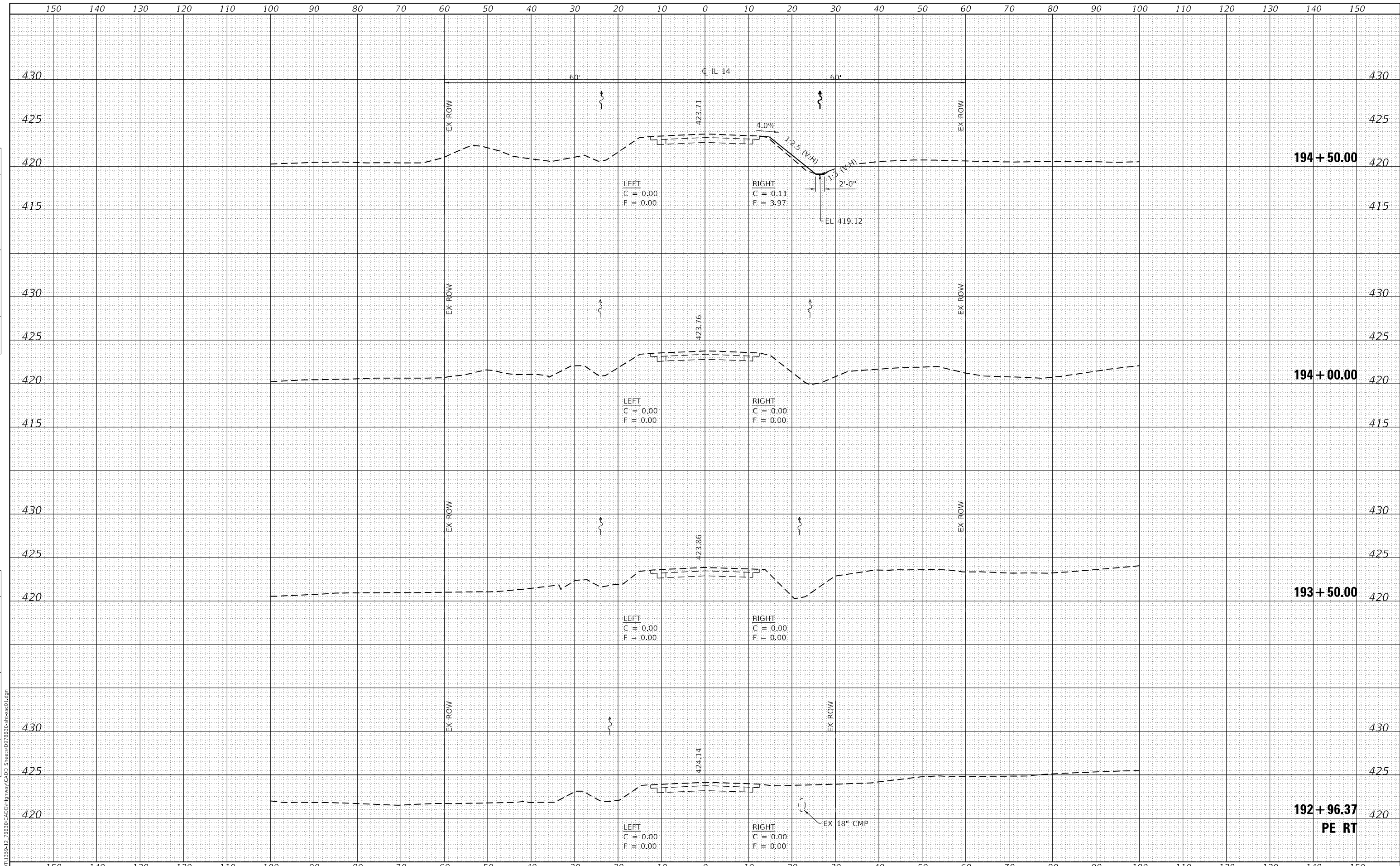
SN 033-0004 EXISTING STRUCTURE PLANS
FOR INFORMATION ONLY

SCALE: AS SHOWN SHEET NO. 6 OF 6 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
853	9B-1	HAMILTON	56	49
CONTRACT NO. 78830				
ILLINOIS FED. AID PROJECT				

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

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



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PLOT DATE = 10/5/2023	DATE - 07/23	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

IL 14 CROSS SECTIONS

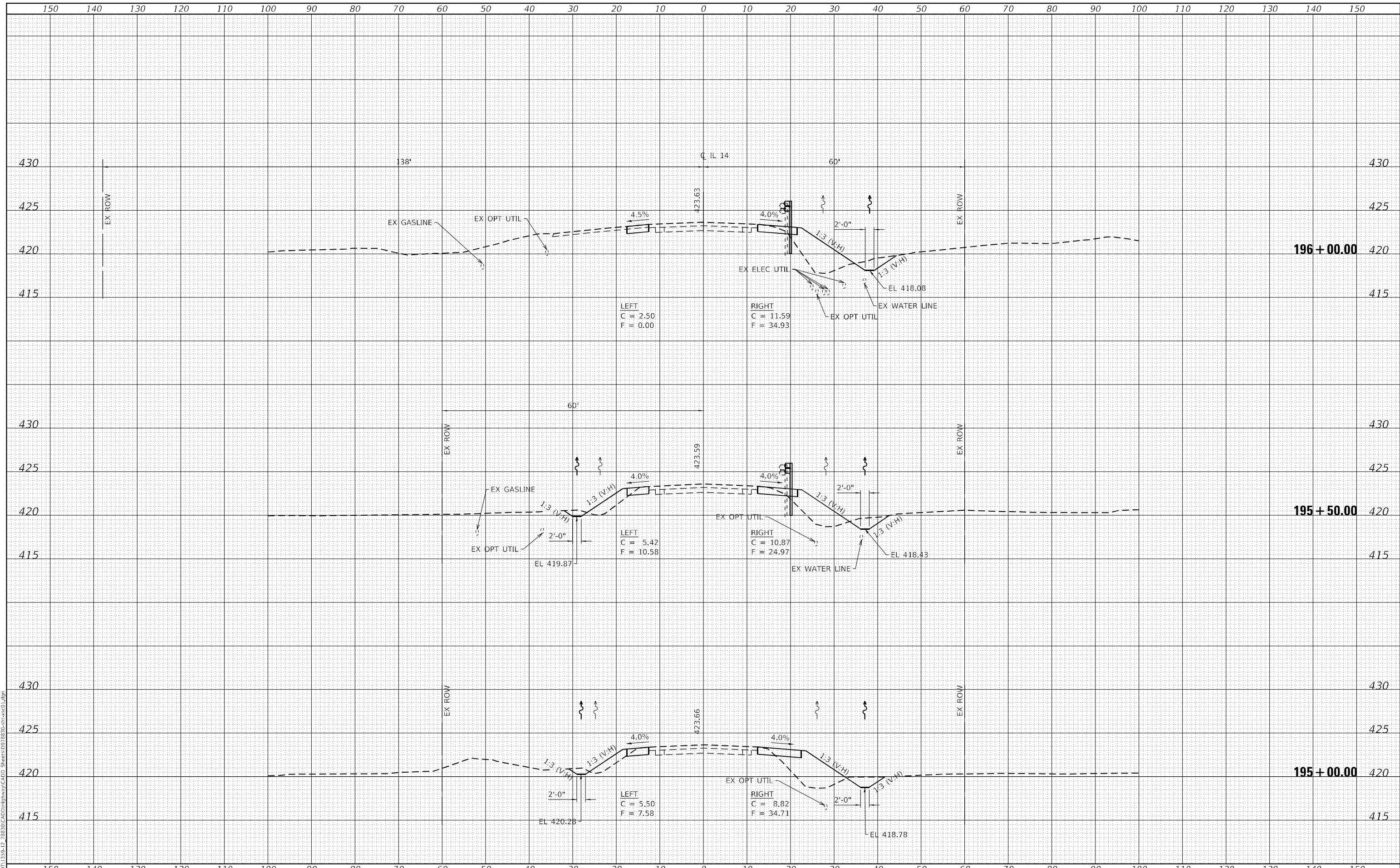
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F.A.P. RTE. 853	SECTION 9B-1	COUNTY HAMILTON	TOTAL SHEETS 56	SHEET NO. 50
			CONTRACT NO. 78830	
ILLINOIS FED. AID PROJECT				

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

DATE	
BY	
SURVEYED	
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PLOT SCALE = 20,0000 * / in.
PLOT DATE = 10/5/2023

DESIGNED - ELH/IRC
DRAWN - JPC/IRC
CHECKED - ELH
DATE - 07/23

REVISED -
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REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 14 CROSS SECTIONS

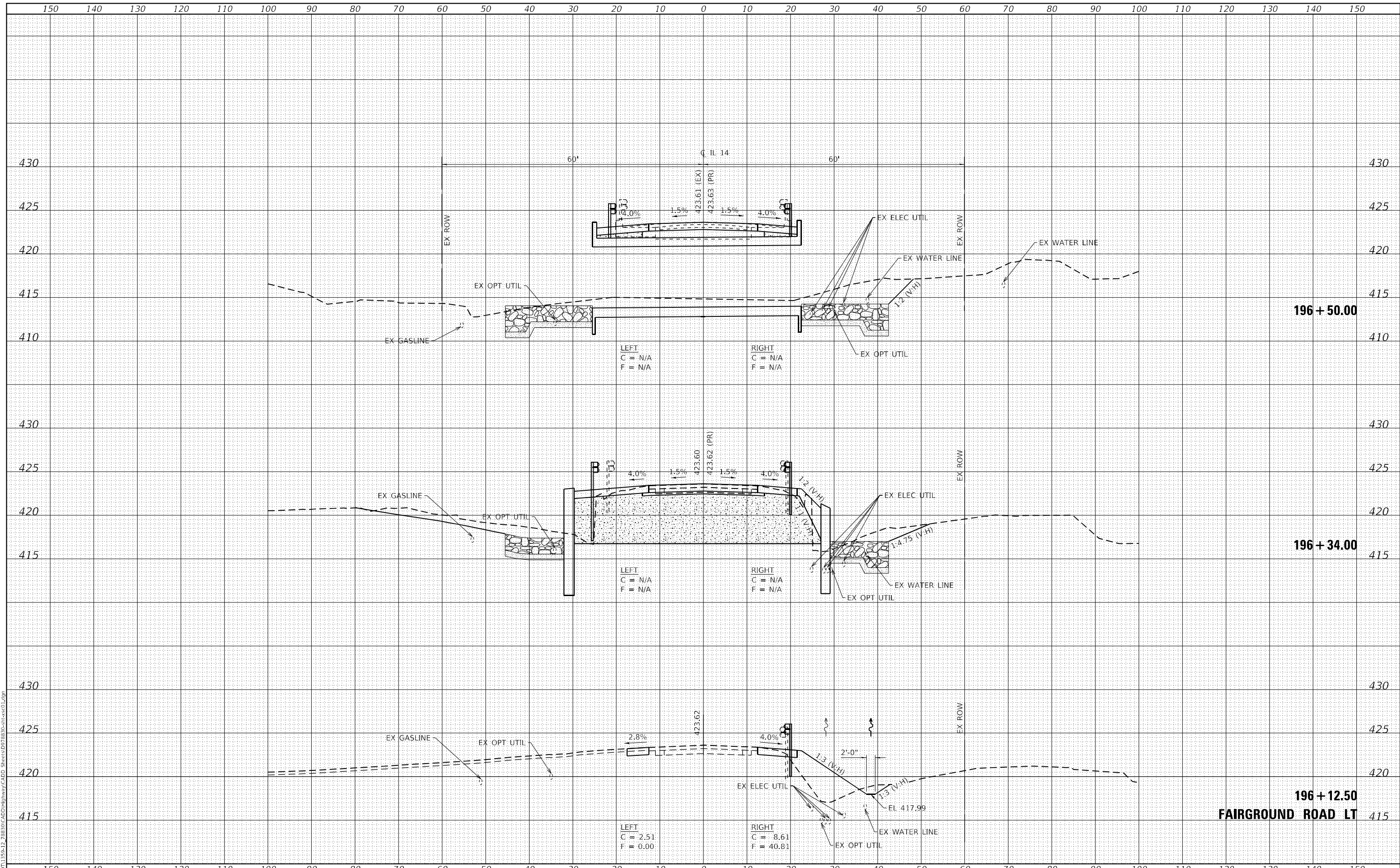
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F.A.P. RTE. 853	SECTION 9B-1	COUNTY HAMILTON	TOTAL SHEETS 56	SHEET NO. 51
CONTRACT NO. 78830				
ILLINOIS FED. AID PROJECT				

DATE	
BY	
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NOTE BOOK	FLOTTED
NO.	TEMPLATE
	AREAS CHECKED

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

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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

IL 14 CROSS SECTIONS

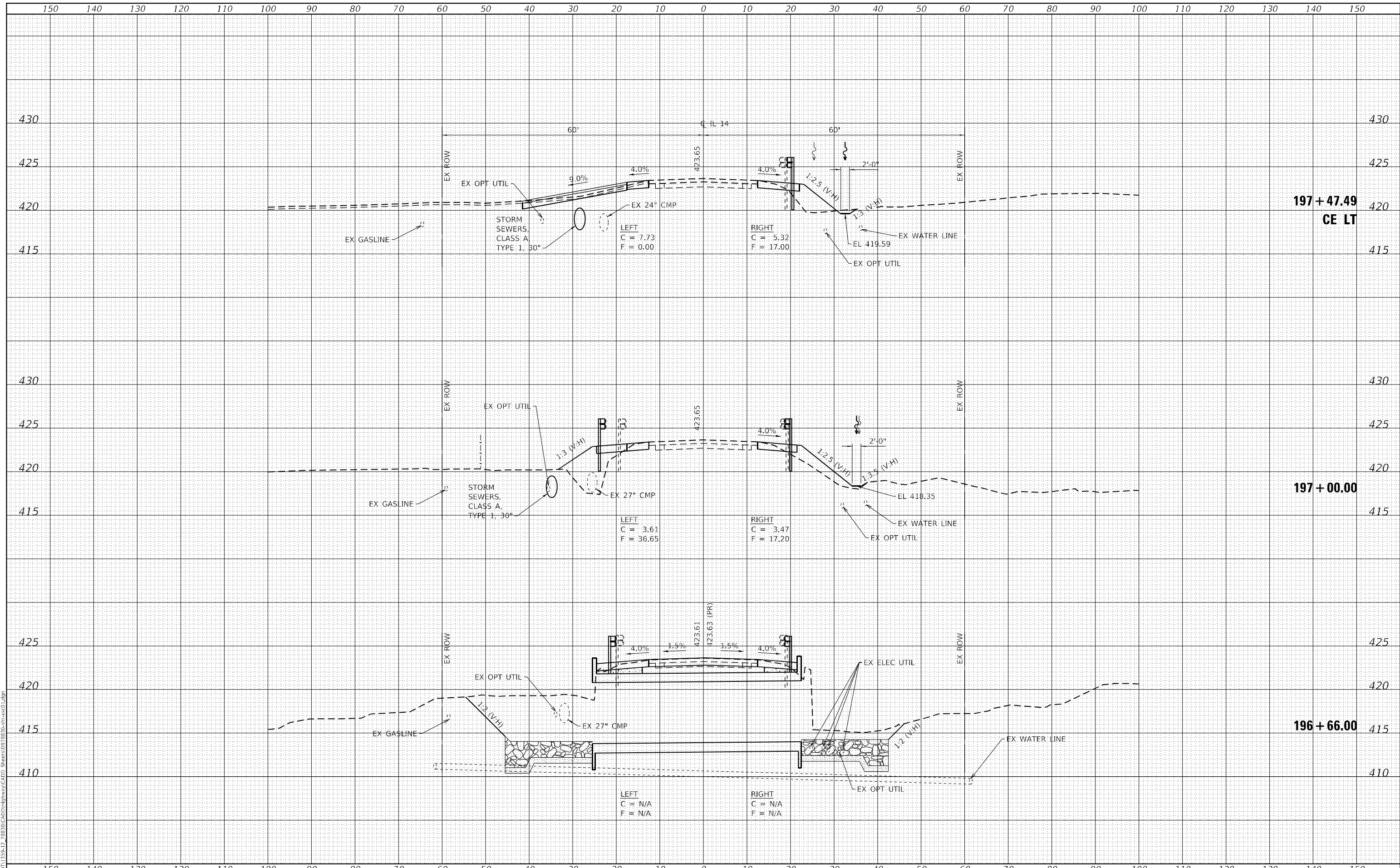
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CONTRACT NO. 78830			ILLINOIS FED. AID PROJECT	

DATE	
BY	
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NOTE BOOK	PLOTTED
NO.	TEMPLATE
	AREAS CHECKED
	AREAS CHECKED

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

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DRAWN	- JPC/IRC
CHECKED	- ELH
DATE	- 07/23

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REVISED	-

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

IL 14 CROSS SECTIONS

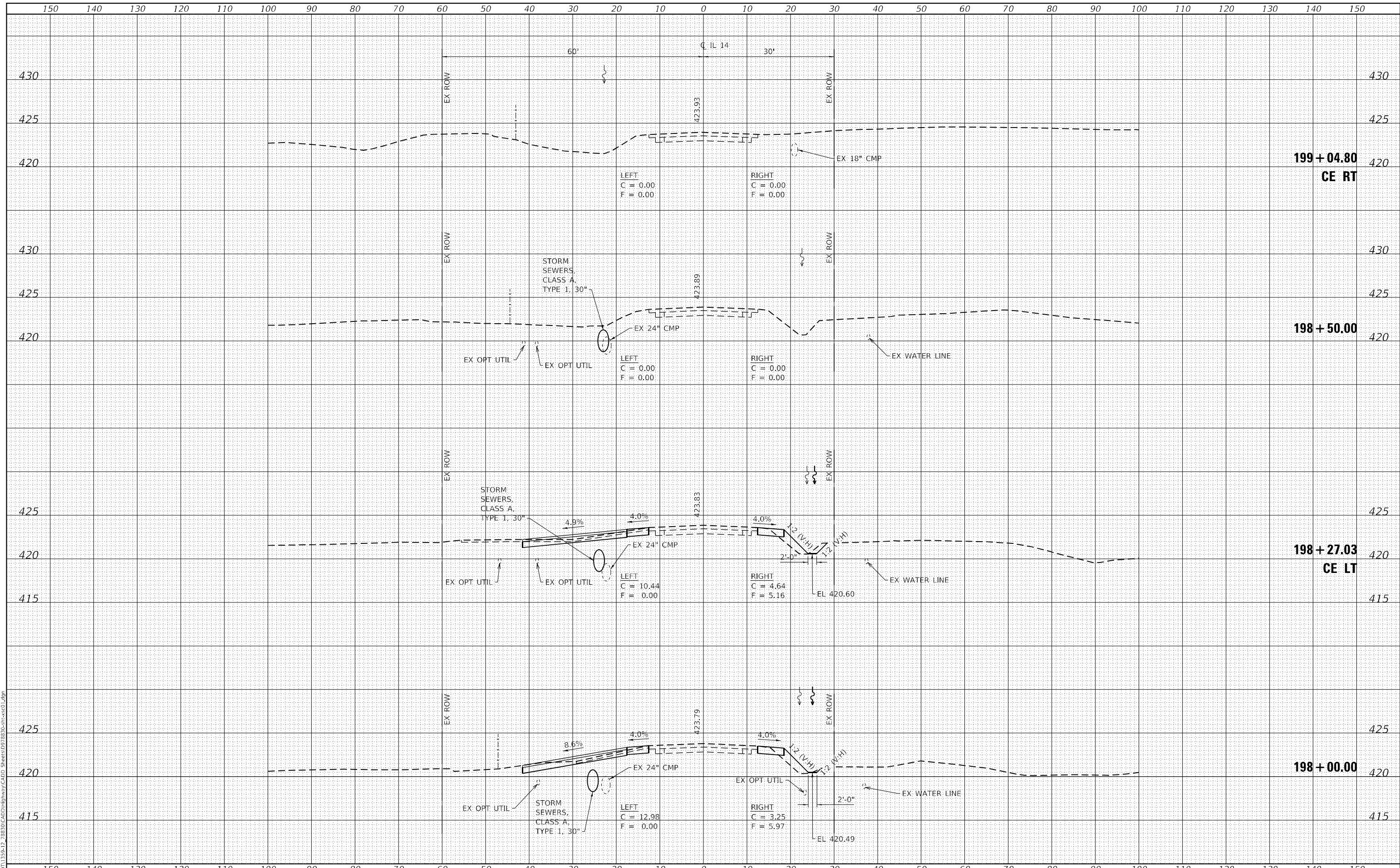
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
853	9B-1	HAMILTON	56	53
CONTRACT NO. 78830				
ILLINOIS FED. AID PROJECT				

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

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

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USER NAME = IRC	DESIGNED - ELH/IRC	REVISED -
ESCA PROJECT NO. 1359.12	DRAWN - JPC/IRC	REVISED -
PLOT SCALE = 20,0000' / in.	CHECKED - ELH	REVISED -
PLOT DATE = 10/5/2023	DATE - 07/23	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

IL 14 CROSS SECTIONS

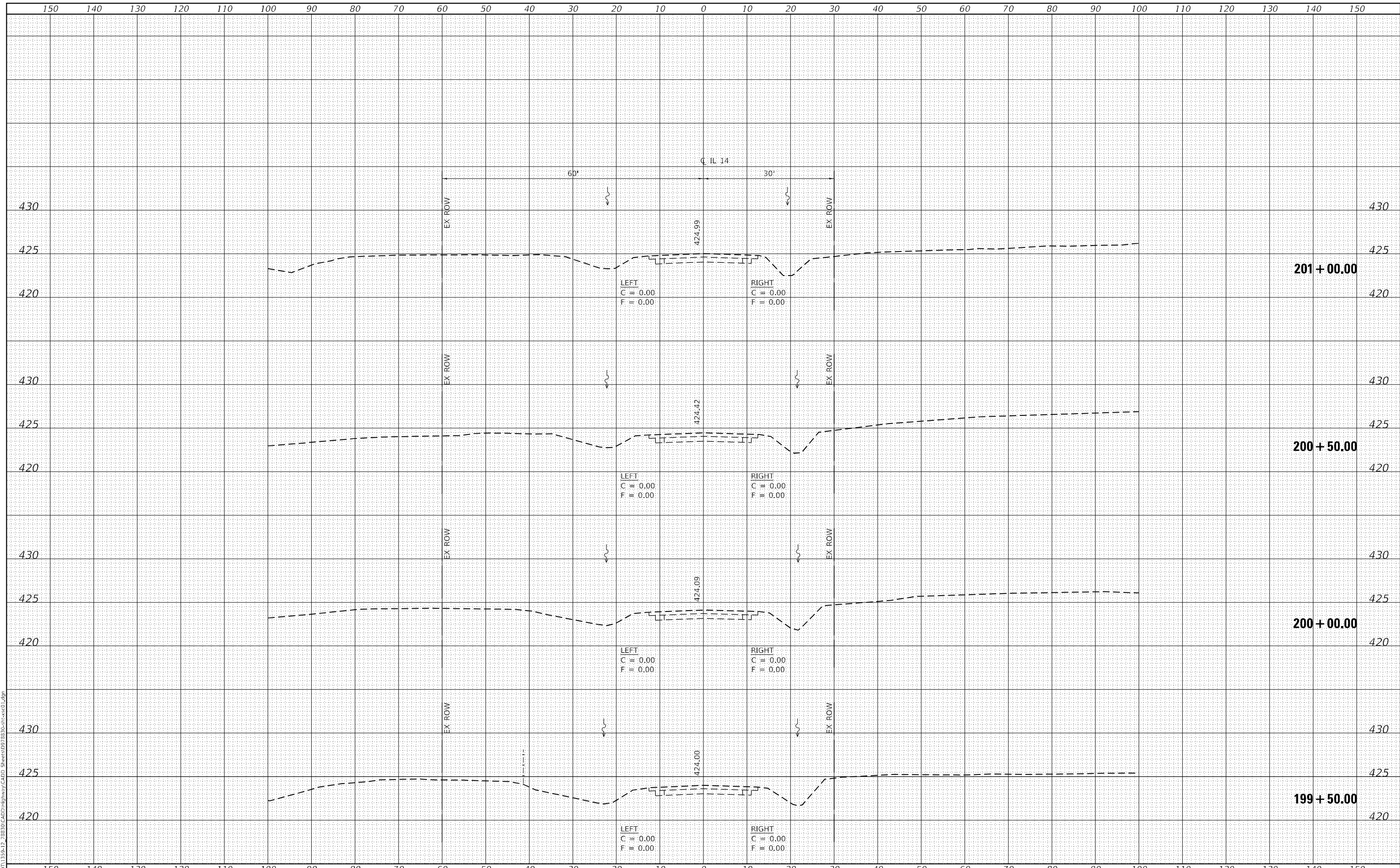
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F.A.P. RTE. 853	SECTION 98-1	COUNTY HAMILTON	TOTAL SHEETS 56	SHEET NO. 54
CONTRACT NO. 78830				
ILLINOIS FED. AID PROJECT				

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

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

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USER NAME = IRC	DESIGNED - ELH/IRC	REVISED -
ESCA PROJECT NO. 1359.12	DRAWN - JPC/IRC	REVISED -
PLOT SCALE = 20,0000 * / in.	CHECKED - ELH	REVISED -
PLOT DATE = 10/5/2023	DATE - 07/23	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

IL 14 CROSS SECTIONS

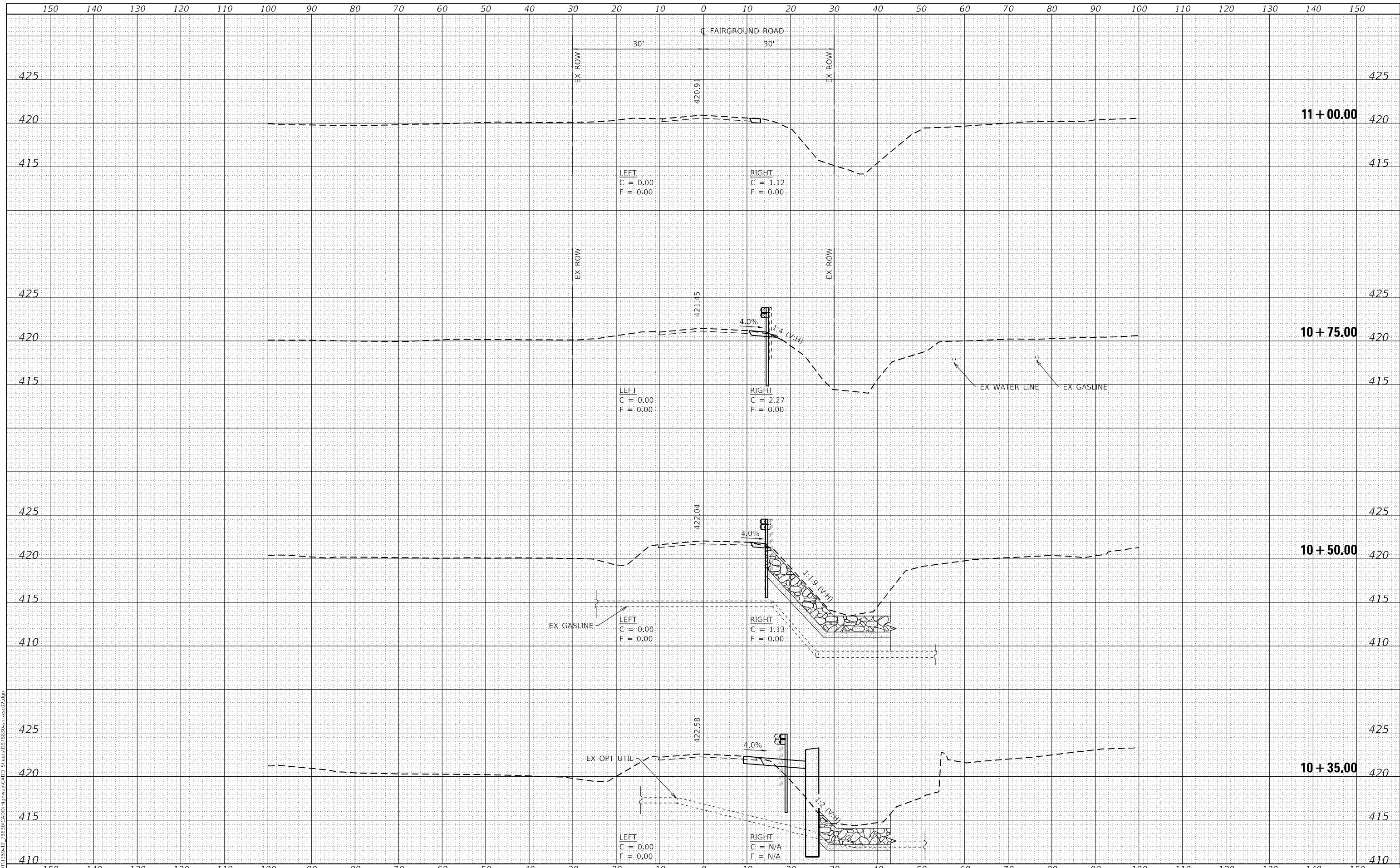
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F.A.P. RTE. 853	SECTION 9B-1	COUNTY HAMILTON	TOTAL SHEETS 56	SHEET NO. 55
CONTRACT NO. 78830			ILLINOIS FED. AID PROJECT	

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

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

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PLOT SCALE = 20,0000 * / in.	CHECKED - ELH	REVISED -
PLOT DATE = 10/5/2023	DATE - 07/23	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

FAIRGROUND ROAD CROSS SECTIONS

SCALE: AS SHOWN SHEET 1 OF 1 SHEETS STA. 10+35.00 TO STA. 11+00.00

F.A.P. RTE. 853	SECTION 9B-1	COUNTY HAMILTON	TOTAL SHEETS 56	SHEET NO. 56
			CONTRACT NO. 78830	
ILLINOIS FED. AID PROJECT				