F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
312	123B-5, 123B-6, 123B-7	JACKSON	101*	1
	ILLINOIS	CONTRACT NO. 78790		

* 101 + 1 = 102 TOTAL SHEETS

06-16-2023 LETTING ITEM 156

FOR INDEX OF SHEETS SEE SHEET NO. 3
FOR SUMMARY OF QUANTITIES SEE SHEET NOS. 4-8

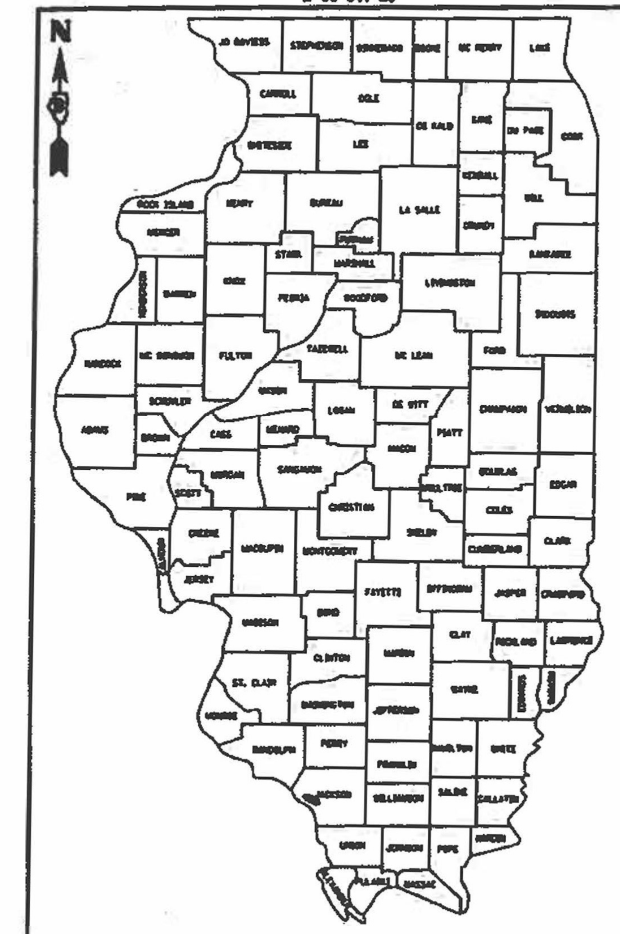
DESIGN DESIGNATION: N/A

COORDINATE SYSTEM: ILLINOIS COORDINATE SYSTEM, EAST ZONE

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
PROPOSED HIGHWAY PLANS

F.A.P. ROUTE 312 (IL 3)
SECTION 123B-5;123B-6;123B-7
PROJECT NHPP-HPXS(165)
BOX CULVERT REPLACEMENTS
JACKSON COUNTY
C-99-063-20

D-99-041-20

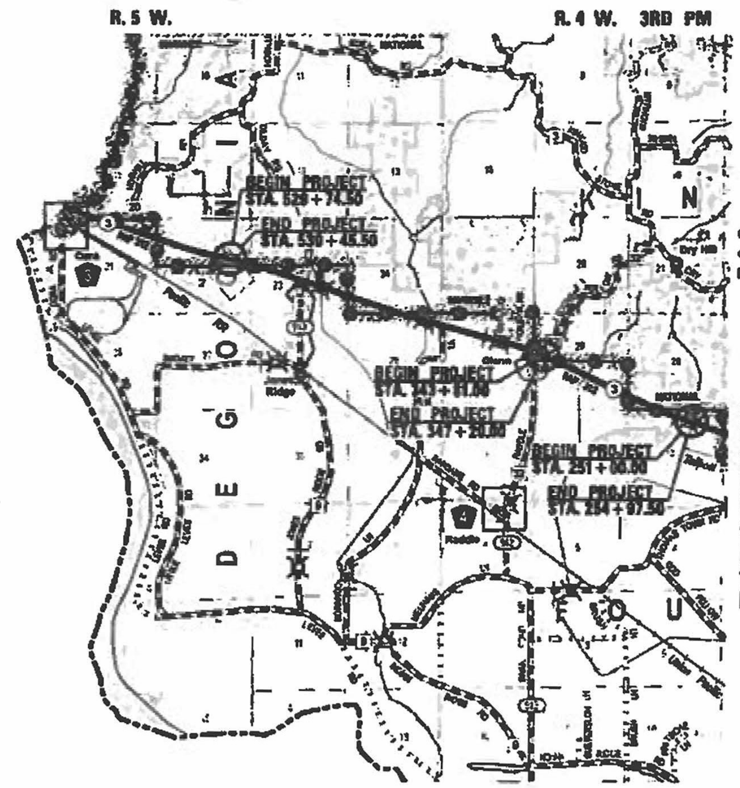


TRAFFIC DATA
IL ROUTE 3
EXISTING ADT = 2,300 (2017)
%SU = 80 (3.48%)
%MU = 300 (13.04%)
FUNCTIONAL CLASSIFICATION: OTHER PRINCIPAL ARTERIAL
POSTED SPEED: 55 MPH

TOWNSHIP
DEGOGNIA & KINKAID

SECTION 123B-5
EXISTING SN 039-2013
℄ STRUCTURE STA. 530+10
PROPOSED SN 039-7126
℄ STRUCTURE STA. 530+10
PRECAST SINGLE BARREL BOX CULVERT
17'-0" W X 6'-0" H X 60'-0" WITH CAST IN PLACE END SECTIONS
30 DEGREE SKEW RT. FWD.

SECTION 123B-6
EXISTING SN 039-2014
℄ STRUCTURE STA. 345+42
PROPOSED SN 039-2034
℄ STRUCTURE STA. 345+42
CAST IN PLACE DOUBLE BARREL BOX CULVERT
9'-0" W X 8'-0" H X 47'-5 1/2"
25 DEGREE SKEW RT. FWD.



LOCATION MAP
(NOT TO SCALE)

SECTION 123B-7
EXISTING SN 039-2015
℄ STRUCTURE STA. 252+70
PROPOSED SN 039-2035
℄ STRUCTURE STA. 252+70
CAST IN PLACE DOUBLE BARREL BOX CULVERT
10'-0" W X 10'-0" H X 43'-0"
NO SKEW

GROSS LENGTH = 71.00 FT. = 0.013 MILE (SECTION 123B-5)
GROSS LENGTH = 304.00 FT. = 0.058 MILE (SECTION 123B-6)
GROSS LENGTH = 397.50 FT. = 0.075 MILE (SECTION 123B-7)
NET LENGTH = 772.50 FT. = 0.146 MILE (ALL THREE SECTIONS)

CHRISTOPHER P. KOHLHUS — LICENSED PROFESSIONAL ENGINEER OF STATE OF ILLINOIS
3/13/23
Christopher P. Kohlhus
EXPIRATION: 11/30/2023

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBMITTED March 15 2023
Kirk H. Brown
REGION FIVE ENGINEER

May 12, 2023
ENGINEER OF DESIGN AND ENVIRONMENT

May 12, 2023
Stephen M. Travia
DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

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

PROJECT ENGINEER: EHREN KIRBY

CONTRACT NO. 78790

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

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REV. - MS

PREPARED BY: Charles Stein
DISTRICT STUDIES AND PLANS ENGINEER

EXAMINED BY: Nancy Hee
DISTRICT LAND ACQUISITION ENGINEER

EXAMINED BY: Carrie Nelson
DISTRICT PROGRAM DEVELOPMENT ENGINEER

EXAMINED BY: _____
DISTRICT OPERATIONS ENGINEER

EXAMINED BY: Doyle J Trulock
DISTRICT PROJECT IMPLEMENTATION ENGINEER

EXAMINED BY: Doyle J Trulock
DISTRICT CONSTRUCTION ENGINEER

EXAMINED BY: Aaron Hargis
DISTRICT MATERIALS ENGINEER

MODEL: $MODELNAME$
FILE NAME: =FILE$

V&K
Veenstra & Kimm, Inc.
Springfield, IL. Phone: (217)544-8033

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

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SIGNATURE SHEET

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

F.A.P RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
312	123B-5; 123B-6; 123B-7	JACKSON	101	2
		CONTRACT NO. 78790		
		ILLINOIS	FED. AID PROJ.( )	

GENERAL NOTES

1.) THE CENTERLINE PAVEMENT MARKING SHALL BE REMOVED FROM THE STOP BAR TO THE SAND ATENUATORS OR DRUMS. EDGE LINE PAVEMENT MARKING SHALL BE REMOVED IF A 10 FOOT LANE WIDTH CANNOT BE MAINTAINED. TEMPORARY EDGE LINES SHALL BE INSTALLED WHEN THE EDGE LINES ARE REMOVED.

2.) TO RETAIN THE TEMPORARY CONCRETE BARRIER FOR STAGE II TRAFFIC, THE CONTRACTOR SHALL HAVE THE OPTION OF USING EITHER 2 (#5) BAR SPLICER OR 2 CAST-IN-PLACE INSERTS AT 6" CENTERS AT THE MID-DEPTH OF THE PCC PAVEMENT. THE BAR SPLICERS OR INSERTS SHALL HAVE A MINIMUM PROOF LOAD OF 5,000 POUNDS. ALONG THE ANCHORING DEVICES, THE CONTRACTOR SHALL PROVIDE ONE STEEL RETAINING PLATE AND ½" DIAMETER BOLT AND WASHERS EVERY 6 FEET AS SHOWN ON DETAIL II ON STANDARD R-27 FROM STA. 345+07 TO STA. 345+76 (SECTION 123B-6) AND STA. 252+41.5 TO STA. 252+98.5 (SECTION 123B-7) FOR STAGE II TRAFFIC. THIS WORK SHALL BE INCLUDED IN THE COST OF TEMPORARY CONCRETE BARRIER. NO ADDITIONAL COMPENSATION SHALL BE PROVIDED.

3.) THE ALGEBRAIC DIFFERENCE BETWEEN THE PAVEMENT AND THE SHOULDER SLOPES SHALL NOT EXCEED 10%. THE SHOULDER ON THE OUTSIDE OF THE SUPERELEVATED CURVES SHALL BE FLATTENED ACCORDINGLY.

4.) AT LOCATIONS WHERE THE PROPOSED HOT-MIX ASPHALT OR CONCRETE PAVEMENT JOINS AN EXISTING HOT-MIX OR CONCRETE PAVEMENT, A FULL DEPTH SAWED JOINT SHALL BE CONSTRUCTED. THE COST OF THE JOINT WILL BE INCLUDED IN THE COST OF THE TYPE OF PAVEMENT BEING CONSTRUCTED.

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

ALL AGGREGATE MATERIAL	2.05 TON/CU. YD.
ALL HOT-MIX ASPHALT	2.016 TON/CU. YD.
RIPRAP	1.5 TON/CU. YD.

COMMITMENTS

1.) TREES EQUAL TO OR GREATER THAN 3 INCHES IN DIAMETER SHALL NOT BE REMOVED BETWEEN APRIL 1 AND SEPTEMBER 30 OF ANY GIVEN YEAR.

2.) SN 039-2035 - A DRAINAGE DITCH IS TO BE CONSTRUCTED ALONG THE WEST SIDE OF MATTHEW KORANDO'S DRIVEWAY WITHIN THE LIMITS OF THE RELOCATION OF HIS DRIVEWAY FOR THE PURPOSE OF PREVENTING RUNOFF FROM HIS FIELD FROM CROSSING HIS DRIVEWAY. THE DITCH SHALL BE AS DEPICTED WITHIN THE CONTRACT PLANS.

HMA MIXTURE REQUIREMENTS

LOCATIONS	HMA SHOULDERS 8", 10" (LOWER LIFT)	HMA SHOULDERS 8", 10" (TOP LIFT)
MIXTURE USES:	HMA BINDER COURSE, IL-19.0, N70	HMA SURFACE COURSE, MIX D, N70
AB/PG	PG64-22	PG64-22
DESIGN AIR VOIDS	4.0%, 70 GYRATION DESIGN	4.0%, 70 GYRATION DESIGN
MIXTURE COMPOSITION (GRADATION MIXTURE)	IL-19.0mm	IL-9.5mm
FRICTION AGGREGATE	NONE	MIX D
MIXTURE WEIGHT	112 LBS./SQ. YD./INCH	112 LBS./SQ. YD./INCH
QUALITY MANAGEMENT PROGRAM	QC/QA	QC/QA
SUBLOT SIZE	3000	3000
MATERIAL TRANSFER DEVICE	NO	NO

LIFT REQUIREMENTS

8 INCH SHOULDERS:	10 INCH SHOULDERS:
1½" SURFACE COURSE	2" SURFACE COURSE
2½" BINDER COURSE	4" BINDER COURSE
4" BINDER COURSE	4" BINDER COURSE

INDEX OF SHEETS

STANDARDS

000001-08	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
001001-02	AREAS OF REINFORCEMENT
280001-07	TEMPORARY EROSION CONTROL SYSTEMS
420001-10	PAVEMENT JOINTS
420701-03	PAVEMENT WELDED WIRE FABRIC
515001-04	NAME PLATE FOR BRIDGES
542401-04	METAL FLARED END SECTIONS FOR PIPE CULVERTS
630001-12	STEEL PLATE BEAM GUARDRAIL
630201-07	PCC/HMA STABILIZATION AT STEEL PLATE BEAM GUARDRAIL
630301-09	SHOULDER WIDENING FOR TYPE 1 (SPECIAL) GUARDRAIL TERMINAL
666001-01	RIGHT-OF-WAY MARKERS
701001-02	OFF-ROAD OPERATIONS, 2L, 2W, MORE THAN 15' (4.5m) AWAY
701006-05	OFF-ROAD OPERATIONS, 2L, 2W, 15' (4.5m) TO 24' (600mm) FROM PAVEMENT EDGE
701011-04	OFF-ROAD MOVING OPERATIONS, 2L, 2W, DAY ONLY
701201-05	LANE CLOSURE, 2L, 2W, DAY ONLY, FOR SPEEDS > 45 MPH
701301-04	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
701311-03	LANE CLOSURE, 2L, 2W, MOVING OPERATIONS - DAY ONLY
701321-18	LANE CLOSURE, 2L, 2W, BRIDGE REPAIR WITH BARRIER
701326-04	LANE CLOSURE, 2L, 2W, PAVEMENT WIDENING, FOR SPEEDS > 45 MPH
701901-08	TRAFFIC CONTROL DEVICES
704001-08	TEMPORARY CONCRETE BARRIER
720006-04	SIGN PANEL ERECTION DETAILS
725001-01	OBJECT AND TERMINAL MARKERS
728001-01	TELESCOPING STEEL SIGN SUPPORT
780001-05	TYPICAL PAVEMENT MARKINGS
782006-01	GUARDRAIL AND BARRIER WALL REFLECTOR MOUNTING DETAILS
862001-01	UNINTERRUPTABLE POWER SUPPLY (UPS)
BLR 21-9	TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES FOR CONSTRUCTION ON RURAL LOCAL HIGHWAYS
001006	DECIMAL OF AN INCH AND OF A FOOT
420101-07	24' JOINTED PCC PAVEMENT
631066	TRAFFIC BARRIER TERMINAL, TYPE 14
701326	LANE CLOSURE, 2L, 2W, PAVEMENT WIDENING, FOR SPEEDS >= 45 MPH

REV. - MS

MODEL: $MODELNAME$
FILE NAME: $FILE$

Veenstra & Kimm, Inc.
Springfield, IL. Phone: (217)544-8033

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

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL NOTES, COMMITMENTS & PROJECT SPECIFIC NOTES

SCALE: _____ | SHEET __ OF __ SHEETS | STA. _____ | TO STA. _____

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
312	123B-5; 123B-6; 123B-7	JACKSON	101	3

CONTRACT NO. 78790

ILLINOIS | FED. AID PROJECT

				JACKSON FAP 312 (IL 3) 80% FED 20% STATE RURAL		
				CONSTRUCTION CODE		
CODE NO.	ITEM	UNIT	TOTAL QUANTITY	BOX CULVERT 0010 SN 039-7126	BOX CULVERT 0010 SN 039-2034	BOX CULVERT 0010 SN 039-2035
20200100	EARTH EXCAVATION	CU YD	750	19	119	612
20400800	FURNISHED EXCAVATION	CU YD	364	60	9	295
20700220	POROUS GRANULAR EMBANKMENT	CU YD	1311	472	414	425
25000210	SEEDING, CLASS 2A	ACRE	1.50	0.10	0.50	0.90
25000350	SEEDING, CLASS 7	ACRE	1.50	0.10	0.50	0.90
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	135	9	45	81
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	135	9	45	81
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	135	9	45	81
25000700	AGRICULTURAL GROUND LIMESTONE	TON	3.0	0.20	1.00	1.80
25100115	MULCH, METHOD 2	ACRE	1.50	0.10	0.50	0.90
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	175	25	50	100
28000400	PERIMETER EROSION BARRIER	FOOT	1315		508	807
28100207	STONE RIPRAP, CLASS A4	TON	32			32
28100209	STONE RIPRAP, CLASS A5	TON	730	131	304	295

				JACKSON FAP 312 (IL 3) 80% FED 20% STATE RURAL		
				CONSTRUCTION CODE		
CODE NO.	ITEM	UNIT	TOTAL QUANTITY	BOX CULVERT 0010 SN 039-7126	BOX CULVERT 0010 SN 039-2034	BOX CULVERT 0010 SN 039-2035
28200200	FILTER FABRIC	SQ YD	687	113	295	279
40200800	AGGREGATE SURFACE COURSE, TYPE B	TON	239			239
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	752	30	322	400
42000060	WELDED WIRE REINFORCEMENT	SQ YD	555	190	200	165
42000500	PORTLAND CEMENT CONCRETE PAVEMENT 10"	SQ YD	555	190	200	165
42001300	PROTECTIVE COAT	SQ YD	35		18	17
44000100	PAVEMENT REMOVAL	SQ YD	555	190	200	165
48102100	AGGREGATE WEDGE SHOULDER, TYPE B	TON	4	4		
48203029	HOT-MIX ASPHALT SHOULDERS, 8"	SQ YD	64	64		
48203037	HOT-MIX ASPHALT SHOULDERS, 10"	SQ YD	1578		712	866
50100300	REMOVAL OF EXISTING STRUCTURES NO. 1	EACH	1	1		
50100400	REMOVAL OF EXISTING STRUCTURES NO. 2	EACH	1		1	
50100500	REMOVAL OF EXISTING STRUCTURES NO. 3	EACH	1			1
50105220	PIPE CULVERT REMOVAL	FOOT	92			92

	CODE NO.	ITEM	UNIT	TOTAL QUANTITY	JACKSON FAP 312 (IL 3) 80% FED 20% STATE RURAL CONSTRUCTION CODE BOX CULVERT 0010 SN 039-7126	BOX CULVERT 0010 SN 039-2034	BOX CULVERT 0010 SN 039-2035
	50200450	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL FOR STRUCTURES	CU YD	1115	554	326	235
	50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	72700		29390	43310
	50800515	BAR SPLICERS	EACH	269		111	158
	50900207	STEEL RAILING, TYPE CO-10	FOOT	93		48	45
	51500100	NAME PLATES	EACH	3	1	1	1
	52200020	TEMPORARY SOIL RETENTION SYSTEM	SQ FT	1238		590	648
	52200600	GEOTEXTILE RETAINING WALL	SQ FT	846	846		
	54001001	BOX CULVERT END SECTIONS, CULVERT NO. 1	EACH	2	2		
	54003000	CONCRETE BOX CULVERTS	CU YD	356.5		155.0	201.5
	542C0215	PIPE CULVERTS, CLASS C, TYPE 1 10"	FOOT	40			40
	542D0229	PIPE CULVERTS, CLASS D, TYPE 1 24"	FOOT	64			64
	542D0235	PIPE CULVERTS, CLASS D, TYPE 1 30"	FOOT	104			104
	54262724	METAL FLARED END SECTIONS 24"	EACH	2			2
	54262730	METAL FLARED END SECTIONS 30"	EACH	2			2
	59100100	GEOCOMPOSITE WALL DRAIN	SQ YD	473	224	122	127
*	63000001	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	FOOT	200		100	100

* SPECIALTY ITEM

REV. - MS

				JACKSON FAP 312 (IL 3) 80% FED 20% STATE RURAL		
				CONSTRUCTION CODE		
CODE NO.	ITEM	UNIT	TOTAL QUANTITY	BOX CULVERT 0010 SN 039-7126	BOX CULVERT 0010 SN 039-2034	BOX CULVERT 0010 SN 039-2035
63100119	TRAFFIC BARRIER TERMINAL, TYPE 14	EACH	8		4	4
63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	8		4	4
63200310	GUARDRAIL REMOVAL	FOOT	842	207	432	203
66600105	FURNISHING AND ERECTING RIGHT OF WAY MARKERS	EACH	13	9		4
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	9	3	3	3
67100100	MOBILIZATION	L SUM	1	0.33	0.33	0.34
70100405	TRAFFIC CONTROL AND PROTECTION, STANDARD 701321	EACH	3	1	1	1
70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	L SUM	1	0.33	0.33	0.34
70100500	TRAFFIC CONTROL AND PROTECTION, STANDARD 701326	L SUM	1	0.33	0.33	0.34
70103815	TRAFFIC CONTROL SURVEILLANCE	CAL DA	30	10	10	10
70106500	TEMPORARY BRIDGE TRAFFIC SIGNALS	EACH	3	1	1	1
70106700	TEMPORARY RUMBLE STRIPS	EACH	18	6	6	6
70107025	CHANGEABLE MESSAGE SIGN	CAL DA	420	240	90	90
70400100	TEMPORARY CONCRETE BARRIER	FOOT	837.5	312.5	312.5	212.5
70400125	PINNING TEMPORARY CONCRETE BARRIER	EACH	132	48	42	42
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	525	0	312.5	212.5

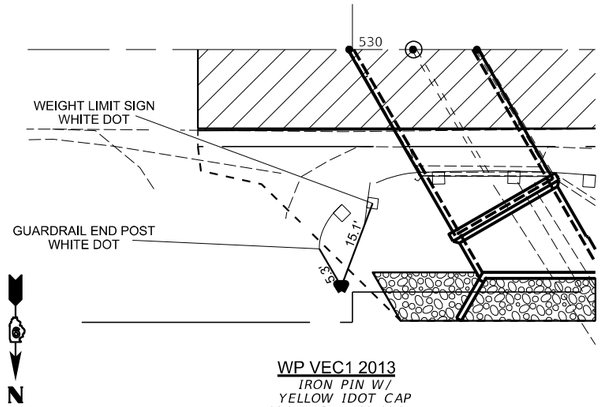
* * SPECIALTY ITEM *

					JACKSON FAP 312 (IL 3) 80% FED 20% STATE RURAL		
					CONSTRUCTION CODE		
	CODE NO.	ITEM	UNIT	TOTAL QUANTITY	BOX CULVERT 0010 SN 039-7126	BOX CULVERT 0010 SN 039-2034	BOX CULVERT 0010 SN 039-2035
	70600260	IMPACT ATTENUATORS, TEMPORARY (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3	EACH	8	4	2	2
	70600332	IMPACT ATTENUATORS, RELOCATE (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3	EACH	4		2	2
	72400200	REMOVE SIGN PANEL ASSEMBLY - TYPE B	EACH	6	2	2	2
*	72501000	TERMINAL MARKER - DIRECT APPLIED	EACH	8		4	4
*	78001110	PAINT PAVEMENT MARKING - LINE 4"	FOOT	3508	880	1387	1241
	78300201	PAVEMENT MARKING REMOVAL - GRINDING	SQ FT	1073	241	440	392
*	86200300	UNINTERRUPTABLE POWER SUPPLY, EXTENDED	EACH	3	1	1	1
*	X7240502	RELOCATE SIGN, SPECIAL	EACH	3			3
	X0900064	MEMBRANE WATERPROOFING SYSTEM FOR BURIED STRUCTURES	SQ YD	473	224	122	127
	X1200140	PRECAST CONCRETE BOX CULVERT (SPECIAL)	FOOT	60	60		
	X7011800	TRAFFIC CONTROL AND PROTECTION, STANDARD BLR 21	L SUM	1	1		
	Z0016702	DETOUR SIGNING	L SUM	1	1		
*	Z0054517	ROCK FILL - FOUNDATION	TON	2133	1136	515	482
Ø	Z0076600	TRAINEES	HOUR	500	500		
	Z0073400	TEMPORARY SUPPORT SYSTEM	EACH	2		2	
Ø	Z0076604	TRAINEES TRAINING PROGRAM GRADUATE	HOUR	500	500		

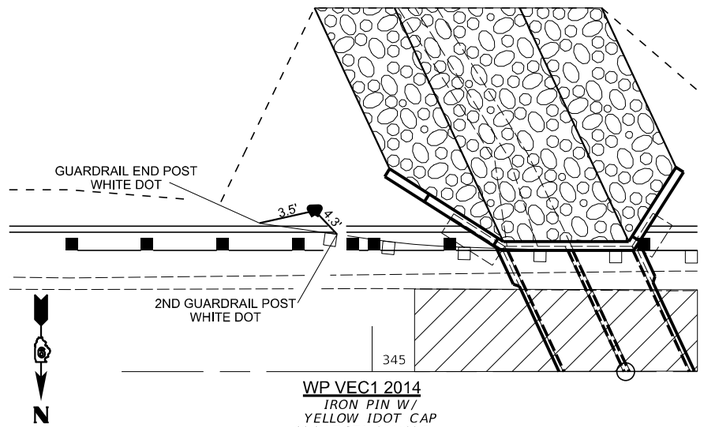
* SPECIALTY ITEM

Ø 0042

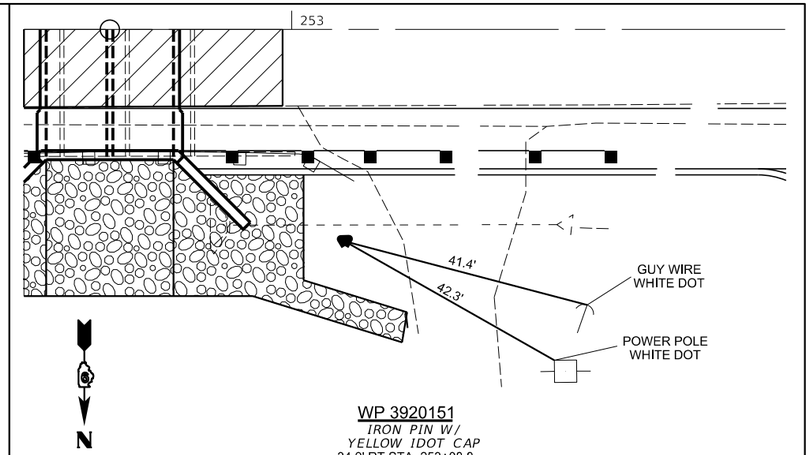
REV. - MS



WP VEC1 2013
IRON PIN W/
YELLOW IDOT CAP
38.8' RT STA. 529+99.8
N 419996.348
E 2448779.596
EL. 373.315



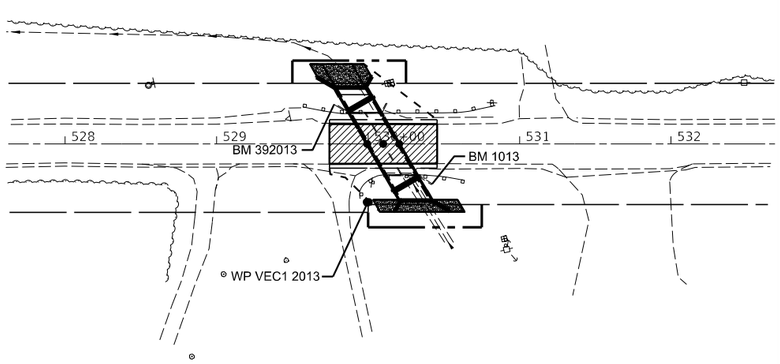
WP VEC1 2014
IRON PIN W/
YELLOW IDOT CAP
26.6' LT STA. 344+90.5
N 414231.195
E 2466349.409
EL. 384.819



WP 3920151
IRON PIN W/
YELLOW IDOT CAP
34.9' RT STA. 253+08.8
N 410406.277
E 2474672.697
EL. 369.901

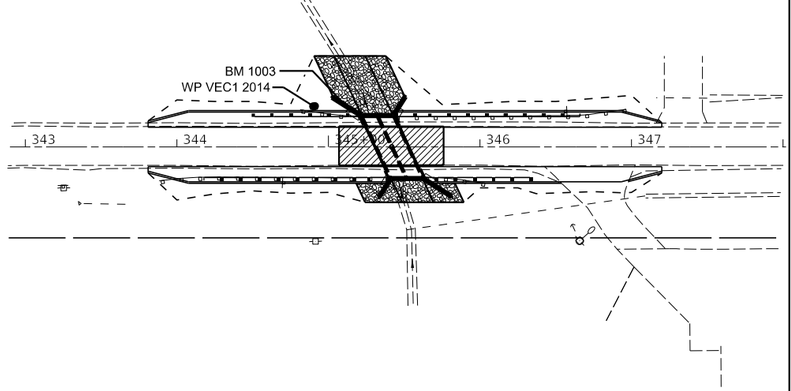
BM 392013 "⊓" CUT ON THE SOUTHEAST
HEADWALL OF S.N. 039-2013
EL. 371.994

BM 1013 "⊓" CUT ON THE NORTHWEST
HEADWALL OF S.N. 039-2013
EL. 372.111



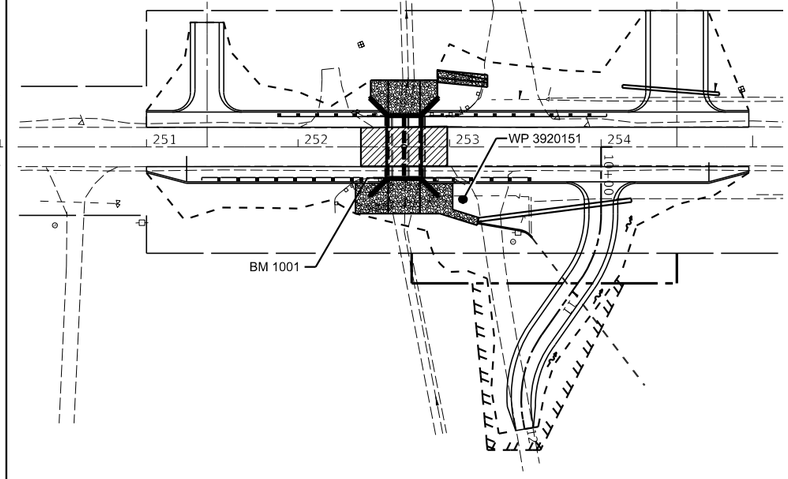
SECTION 123B-5
SN 039-2013

BM 1003 "⊓" CUT ON THE SOUTHEAST
HEADWALL OF S.N. 039-2014
EL. 384.852



SECTION 123B-6
SN 039-2014

BM 1001 "⊓" CUT ON THE NORTHEAST
HEADWALL OF S.N. 039-2015
EL. 371.801



SECTION 123B-7
SN 039-2015

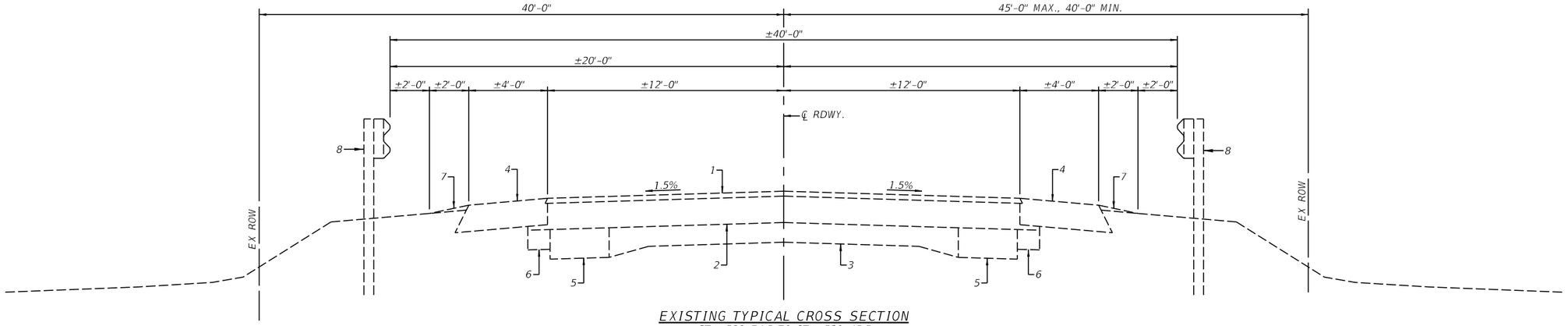
VEENSTRA & KIMM INC. Springfield, IL. Phone: (217)544-8033 IL. Design Firm No. 184-001939	USER NAME = __	DESIGNED - __	REVISED - __
		CHECKED - __	REVISED - __
	PLOT SCALE = __	DRAWN - __	REVISED - __
	PLOT DATE = __	CHECKED - __	REVISED - __

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ALIGNMENT TIES & BENCHMARKS

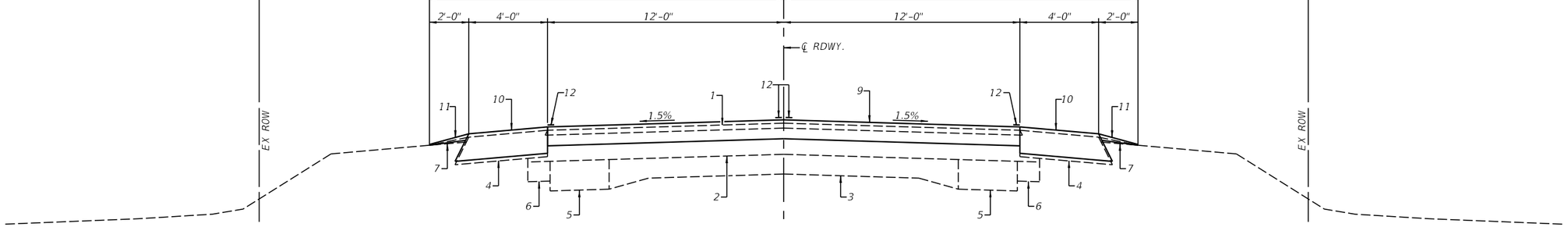
SCALE: 1" = 50' | SHEET NO. 1 OF 1 SHEETS | STA. _____ TO STA. _____

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
312	123B-5, 123B-6, 123B-7	JACKSON	101	9
		CONTRACT NO. 78790		
	ILLINOIS	FED. AID PROJECT		



EXISTING TYPICAL CROSS SECTION

STA. 529+74.5 TO STA. 530+45.5



PROPOSED TYPICAL CROSS SECTION

STA. 529+74.5 TO STA. 530+45.5

PAVEMENT LEGEND

1 - EX HMA SURF CSE ±1½"
2 - EX BIT. CONC. PAVEMENT
3 - EX HMA SURFACED CONCRETE PAVEMENT
4 - EX HMA SHOULDER 8"
5 - EX PCC BASE COURSE WIDENING
6 - EX BIT. SHOULDER
7 - EX AGGREGATE WEDGE
8 - EX GUARDRAIL
9 - PR PCC PAVEMENT 10" MIN.
10 - PR HMA SHOULDER 8"
11 - PR AGGREGATE WEDGE
12 - PR PAVEMENT MARKING - LINE 4"

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IL. Design Firm No. 184-001939

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

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROADWAY TYPICAL SECTIONS

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
312	123B-5	JACKSON	101	10
		CONTRACT NO. 78790		
	ILLINOIS	FED. AID PROJECT		

EARTHWORK

LOCATION	EARTH EXCAVATION	ADJUSTED SHRINKAGE FACTOR	EARTH EXCAVATION (ADJUSTED)	EMBANKMENT	EARTHWORK BALANCE		FURNISHED EXCAVATION	REMARKS
					EXCAVATION REQUIRED TO COMPLETE	EXCESS EXCAVATION		
	CU. YD.	%	CU. YD.	CU. YD.	CU. YD.	CU. YD.	CU. YD.	
STA. 529+74.5 TO STA. 530+45.5	19	25	14	74	0	0	60	
TOTAL	19		14	74	0	0	60	

PERMANENT SEEDING

LOCATION	SEEDING CLASS 2A	NITROGEN FERTILIZER NUTRIENT	PHOSPHORUS FERTILIZER NUTRIENT	POTASSIUM FERTILIZER NUTRIENT	AGRICULTURAL GROUND LIMESTONE	MULCH METHOD 2
	ACRE	POUND	POUND	POUND	TON	ACRE
STA. 529+87.6 TO STA. 530+81.3 RT.	0.06	5	5	5	0.12	0.06
STA. 529+36.0 TO STA. 530+45.5 LT.	0.04	4	4	4	0.08	0.04
TOTAL	0.10	9	9	9	0.20	0.10

TEMPORARY CONCRETE BARRIER AND IMPACT ATTENUATORS

LOCATION	IMPACT ATTENUATORS, TEMPORARY (FULLY REDERECTIVE, NARROW), TEST LEVEL 3	TEMPORARY CONCRETE BARRIER
	EACH	FOOT
STA. 529+02.3 TO STA. 529+34.9 RT.	1	
STA. 529+34.9 TO STA. 530+97.6 RT.		162.5
STA. 530+97.6 TO STA. 531+30.2 RT.	1	
STA. 528+89.8 TO STA. 529+22.4 LT.	1	
STA. 529+22.4 TO STA. 530+72.5 LT.		150
STA. 530+72.5 TO STA. 531+05.1 LT.	1	
TOTAL	4	312.5

PAVEMENT MARKING REMOVAL - GRINDING

LOCATION	PAVEMENT MARKING REMOVAL - GRINDING
	SQ. FT.
EXISTING PAVEMENT MARKING REMOVAL (OMIT PAVEMENT REMOVAL AREA)	
STA. 528+22.8 TO STA. 531+97.2 LT.	102
STA. 527+62.8 TO STA. 532+57.2 CENTERLINE SKIP DASH	37
STA. 528+22.8 TO STA. 531+97.2 RT.	102
TOTAL	241

CHANGEABLE MESSAGE SIGN

LOCATION	CHANGEABLE MESSAGE SIGN
	CAL. DAY
MESSAGE BOARD NORTHWEST OF IL 3 AND IL 150 INTERSECTION IN CHESTER	60
MESSAGE BOARD SOUTH OF IL 4 AND IL 150 INTERSECTION EAST OF PERCY	60
MESSAGE BOARD SOUTHWEST OF AVA AT IL 4 AND IL 151 INTERSECTION	60
MESSAGE BOARD SOUTHEAST OF IL 3 AND IL 151 INTERSECTION	60
TOTAL	240

TEMPORARY EROSION CONTROL ITEMS

LOCATION	SEEDING, CLASS 7	TEMPORARY EROSION CONTROL SEEDING
	ACRE	POUND
STA. 529+87.6 TO STA. 530+81.3 RT.	0.06	6
STA. 529+36.0 TO STA. 530+45.5 LT.	0.04	4
TOTAL	0.10	10

PORTLAND CEMENT CONCRETE SCHEDULE

LOCATION	PORTLAND CEMENT CONCRETE PAVEMENT 10"	WELDED WIRE REINFORCEMENT
	SQ. YD.	SQ. YD.
STA. 529+74.5 TO STA. 530+45.5	190	190
TOTAL	190	190

HOT-MIX ASPHALT SHOULDERS 8" & BITUMINOUS MATERIALS (TACK COAT)

LOCATION	HOT-MIX ASPHALT SHOULDERS 8"	BITUMINOUS MAT'LS. TACK COAT*
	SQ. YD.	POUND
STA. 529+74.5 TO STA. 530+45.5 LT.	32	15
STA. 529+74.5 TO STA. 530+45.5 RT.	32	15
TOTAL	64	30

* ASSUMED 2 APPLICATIONS

PAVEMENT REMOVAL

LOCATION	PAVEMENT REMOVAL
	SQ. YD.
STA. 529+74.5 TO STA. 530+45.5	190
TOTAL	190

AGGREGATE SHOULDER SCHEDULE

LOCATION	AGGREGATE WEDGE SHOULDERS, TYPE B
	TON
	2
STA. 529+74.5 TO STA. 530+45.5 RT.	2
TOTAL	4

GUARDRAIL REMOVAL

LOCATION	GUARDRAIL REMOVAL
	FOOT
STA. 529+94.7 TO STA. 530+63.6 RT	79
STA. 529+57.1 TO STA. 530+84.1 LT	128
TOTAL	207

REMOVE SIGN PANEL ASSEMBLY - TYPE B

LOCATION	REMOVE SIGN PANEL ASSEMBLY
	EACH
STA. 530+81.7' 25' RT (BRIDGE WEIGHT LIMIT)	1
STA. 530+02.5' 28' LT (BRIDGE WEIGHT LIMIT)	1
TOTAL	2

PAINT PAVEMENT MARKING SCHEDULE

LOCATION	PAINT PAVEMENT MARKING - LINE 4"	
	30' SKIP 10' DASH (YELLOW)	EDGE LINE (WHITE)
	FOOT	FOOT
STA. 528+22.8 TO STA. 531+97.2 RT.		375
STA. 527+62.8 TO STA. 532+57.2 CL.	130	
STA. 528+22.8 TO STA. 531+97.2 LT.		375
SUBTOTAL	130	750
TOTAL	880	

TEMPORARY RUMBLE STRIPS

LOCATION	TEMPORARY RUMBLE STRIPS
	EACH
STA. 510+62.8 RT.	1
STA. 515+62.8 RT.	1
STA. 520+62.8 RT.	1
STA. 539+57.2 LT.	1
STA. 544+57.2 LT.	1
STA. 549+57.2 LT.	1
TOTAL	6

TEMPORARY BRIDGE TRAFFIC SIGNALS

LOCATION	TEMPORARY BRIDGE TRAFFIC SIGNALS
	EACH
STA. 528+12.7 18.1' RT.	0.2
STA. 528+37.8 19.0' LT.	0.2
STA. 528+92.0 23.3' LT.	0.2
STA. 532+07.2 19.0' LT	0.2
STA. 532+07.2 19.6' RT	0.2
TOTAL	1.00

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

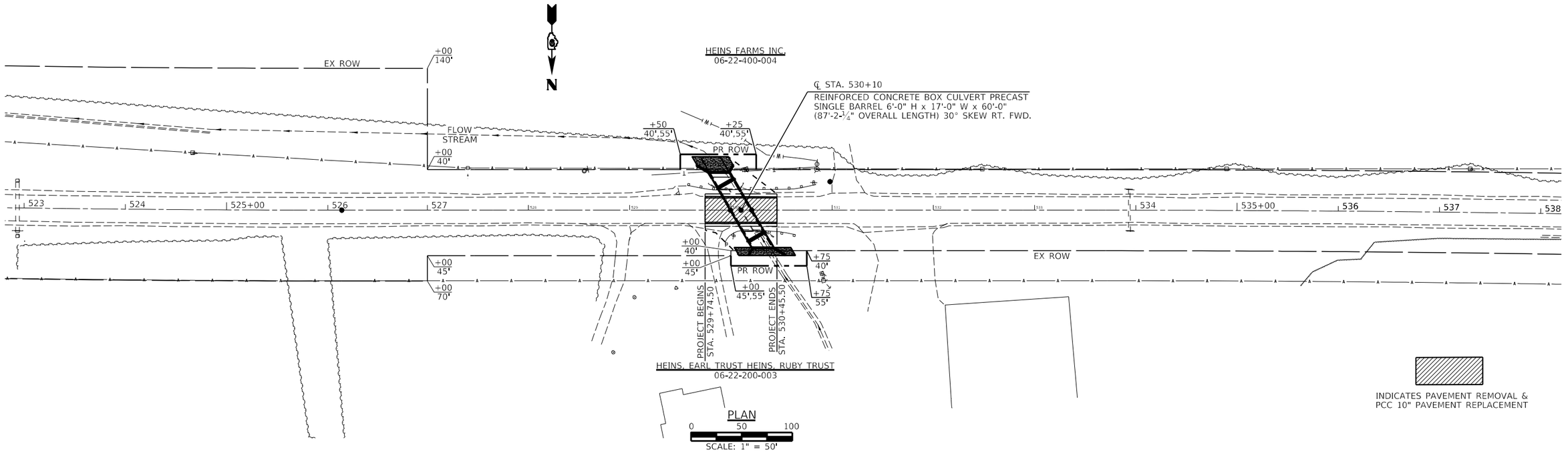
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

QUANTITY SCHEDULES

SCALE:_____ | SHEET NO. _ OF _ SHEETS | STA. _____ TO STA. _____

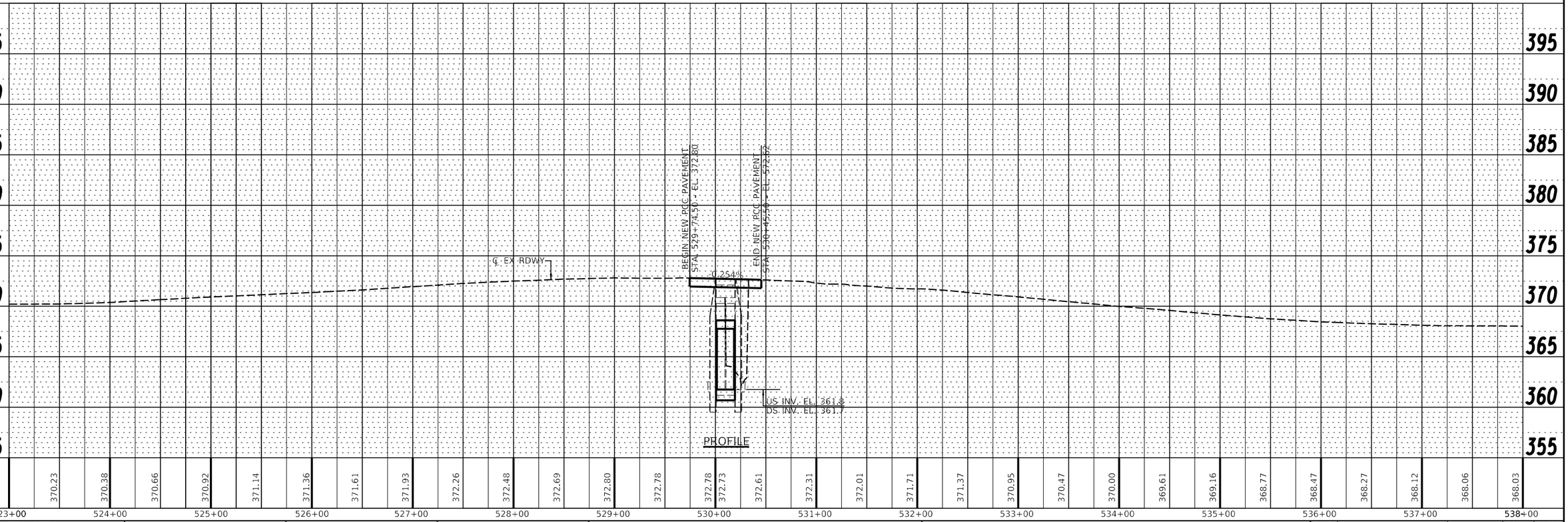
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
312	123B-5	JACKSON	101	11
		CONTRACT NO. 78790		
	ILLINOIS FED. AID PROJECT			

SECTION 22 T. 8 S., R. 5 W., 3rd PM



PLAN
SURVEYED
PLOTTED
ALIGNMENT CHECKED
RT. OF WAY CHECKED
CADD FILE NAME
NOTE BOOK
NO.
BY
DATE

PROFILE
SURVEYED
PLOTTED
PROFILES CHECKED
B.M. NOTED
STRUCTURE NO(S)/TN'S CHK'D
NOTE BOOK
NO.
BY
DATE



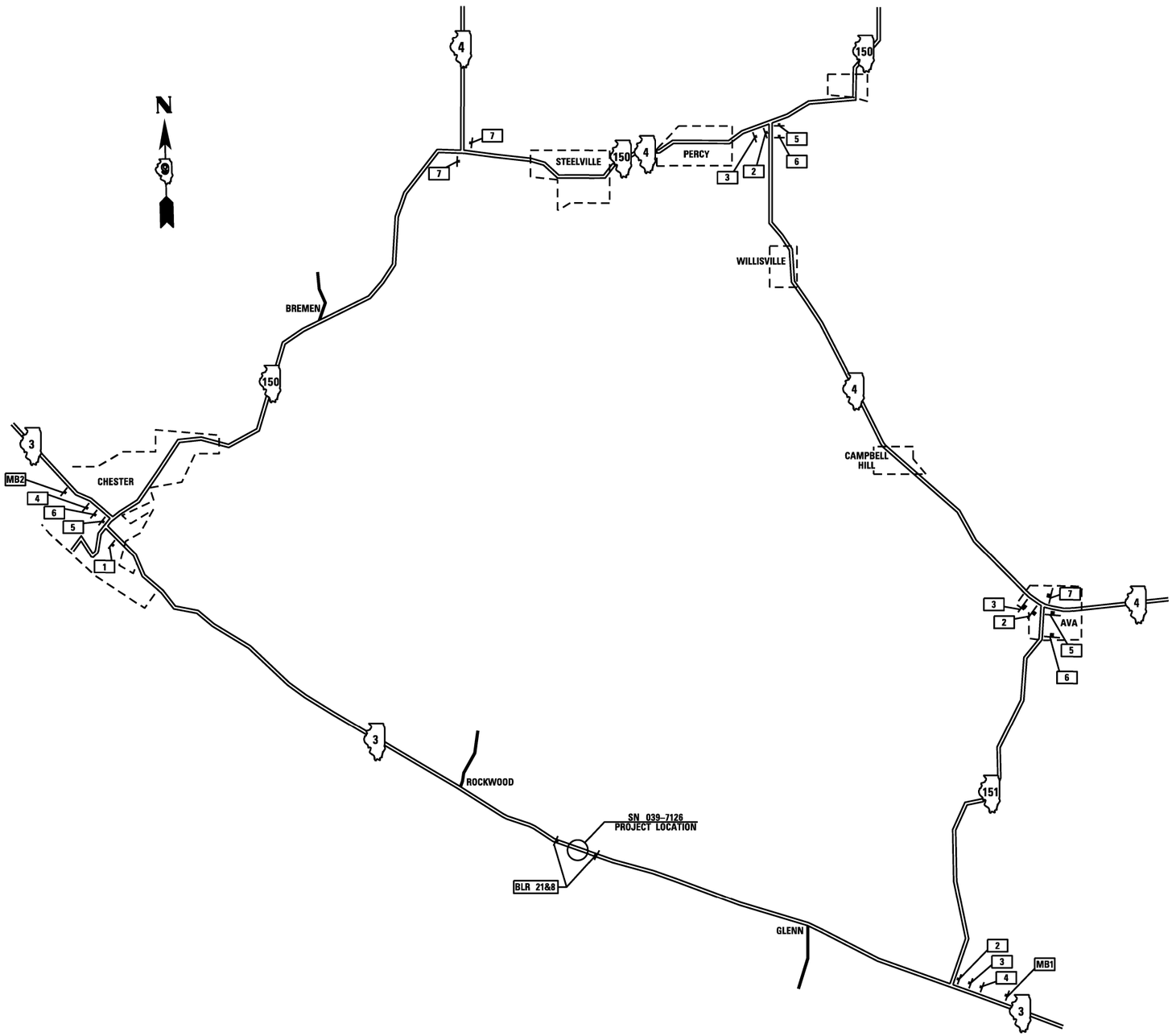
VEENSTRA & KIMM INC. Springfield, IL. Phone: (217)544-8033	USER NAME = $USER$	DESIGNED -	REVISED -
		CHECKED -	REVISED -
	PLOT SCALE = $SCALE$	DRAWN -	REVISED -
	PLOT DATE = $DATE$	CHECKED -	REVISED -

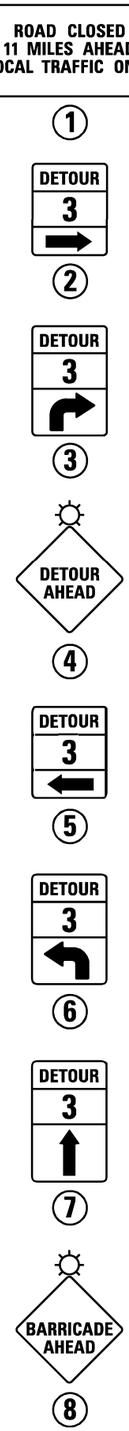
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PLAN & PROFILE SN 039-7126

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
312	123B-5	JACKSON	101	12
		CONTRACT NO. 78790		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		





IL 3 CLOSED 7 MILES
LOCAL TRAFFIC ONLY
FOLLOW MARKED DETOUR

MB 1

IL 3 CLOSED 11 MILES
LOCAL TRAFFIC ONLY
FOLLOW MARKED DETOUR

MB 2

NOTES:

1. THE POSTS SHALL BE PLACED 12 FEET FROM THE EDGE OF PAVEMENT AS DIRECTED BY THE ENGINEER.
2. SIGNS SHALL BE REMOVED ON COMPLETION OF THE CONTRACT AT THE DIRECTION OF THE ENGINEER. THIS WORK SHALL BE COMPLETED ACCORDING TO SECTION 724 OF THE STANDARD SPECIFICATIONS. THIS WORK SHALL BE INCLUDED WITH THE PAY ITEMS INVOLVED. THE SIGNS AND POSTS SHALL BECOME THE PROPERTY OF THE CONTRACTOR.
3. EXACT SIGN PLACEMENT WILL BE DETERMINED BY THE ENGINEER.
4. THE DISTRICT 9 OPERATIONS ENGINEER SHALL BE CONTACTED 10 DAYS PRIOR TO THE ERECTION OF SIGNS.
5. ALL SIGNS SHALL CONFORM TO THE MUTCD AND SECTION 1106 OF THE STANDARD SPECIFICATIONS

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

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

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DETOUR PLAN

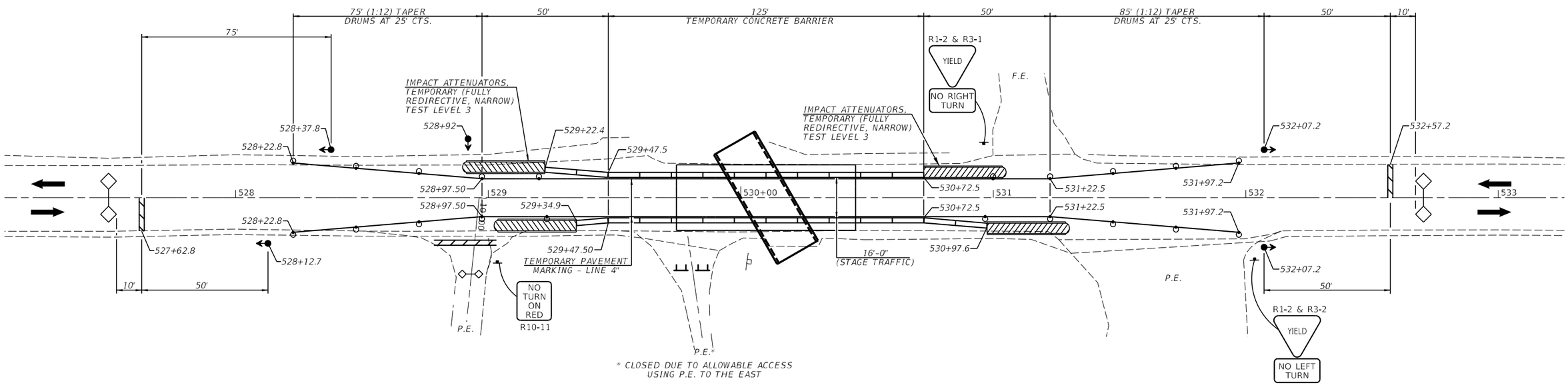
SCALE: NONE | SHEET NO. 1 OF 1 SHEETS | STA. _____ TO STA. _____

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
312	123B-5	JACKSON	101	12A
		CONTRACT NO. 78790		
	ILLINOIS	FED. AID PROJECT		

GENERAL NOTES

1. TRAFFIC CONTROL SHALL BE ERECTED AS SHOWN ACCORDING TO "TRAFFIC CONTROL & PROTECTION, STANDARD 701321.
2. SEE SPECIAL PROVISIONS FOR ADDITIONAL TRAFFIC CONTROL REQUIREMENTS.
3. COORDINATE LOCATION OF SIGNALS WITH FINAL WORK AS DIRECTED BY THE ENGINEER.
4. ADDITIONAL SIGNAGE FOR ENTRANCES AND ADVANCE WIDTH RESTRICTION WARNING SHALL BE INCLUDED IN THE COST OF STANDARD 701321.
5. THE DIMENSION SHOWN ON THE WIDTH RESTRICTION SIGN (W12-I10210)-48) SHOWN ON STANDARD 701321 AND ON THE ADVANCE WARNING SIGN (W12-I103) SHOWN ON THE STAGE PLAN SHEET FOR THIS STRUCTURE SHALL BE 14'-0" FOR STAGE CONSTRUCTION.
6. SEE STD 701321 FOR COMPLETION OF STAGE CONSTRUCTION SIGNING AND ADVANCE DETECTOR LOOP PLACEMENT NOT SHOWN.
7. THE ADVANCE DETECTOR LOOPS ARE TYPICALLY LOCATED 275 FEET IN ADVANCE OF THE STOP BAR. THE BUREAU OF OPERATIONS SHALL APPROVE THE LOOP LOCATIONS PRIOR TO INSTALLATION.
8. THE CENTERLINE PAVEMENT MARKING SHALL BE REMOVED FROM THE STOP BAR TO THE SAND ATTENUATORS OR DRUMS, EDGE LINE PAVEMENT MARKING SHALL BE REMOVED IF A 10 FOOT LANE WIDTH CANNOT BE MAINTAINED. TEMPORARY EDGE LINES SHALL BE INSTALLED WHEN THE EDGE LINES ARE REMOVED.
9. ANY TIME THE CONCRETE BARRIER IS NOT IN THE PROPER POSITION, FLAGGERS SHALL BE IN PLACE TO CONTROL TRAFFIC AND THE TEMPORARY TRAFFIC SIGNALS SHALL BE TURNED OFF OR COVERED.
10. ALL TRAFFIC SIGNALS SHOWN ARE INCLUDED IN TEMPORARY BRIDGE TRAFFIC SIGNALS – 1 EACH.
11. TEMPORARY BRIDGE TRAFFIC SIGNALS SHALL BE A 3-PHASE SIGNAL, WITH ACTUATION FOR THE ENTRANCES AT STA. 528+92, AND AT EACH END STA. 528+12.7 & 532+07.2.
12. THE ADDITIONAL DETECTOR LOOPS AT THE ENTRANCE ARE INCLUDED IN TEMPORARY BRIDGE TRAFFIC SIGNALS – 1 EACH.
13. TEMPORARY PAVEMENT MARKING SHOWN ON THE DETAIL, THE COST OF THE TEMPORARY PAVEMENT MARKING AND ITS REMOVAL WILL BE INCLUDED IN THE COST OF STANDARD 701321.

N



* CLOSED DUE TO ALLOWABLE ACCESS USING P.E. TO THE EAST

STAGE CONSTRUCTION

LEGEND

- REMOVAL ITEMS
- SIGN
- TYPE III BARRICADE
- DRUM WITH STEADY BURNING LIGHT
- BARRICADE WITH STEADY BURNING LIGHT
- TRAFFIC SIGNAL
- INDUCTION LOOP DETECTOR
- DOUBLE VERTICAL PANEL
- TYPE C BIDIRECTIONAL REFLECTOR
- TEMPORARY CONCRETE BARRIER
- IMPACT ATTENUATOR
- STEADY BURNING LIGHTS AND DOUBLE VERTICAL PANELS

PLAN

0 20 40

SCALE: 1" = 20'

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

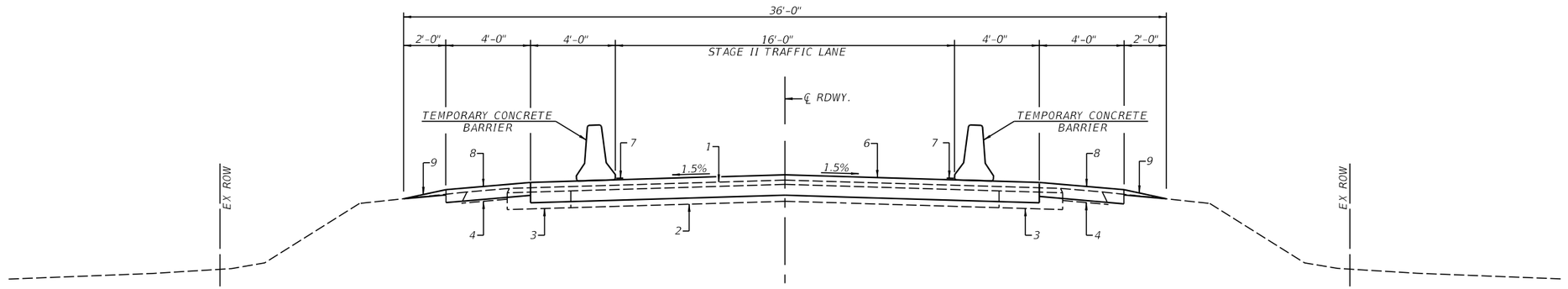
USER NAME = ___	DESIGNED - ___	REVISED - ___
	CHECKED - ___	REVISED - ___
PLOT SCALE = ___	DRAWN - ___	REVISED - ___
PLOT DATE = ___	CHECKED - ___	REVISED - ___

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STAGE CONSTRUCTION PLAN

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
312	123B-5	JACKSON	101	13
		CONTRACT NO. 78790		
	ILLINOIS FED. AID PROJECT			



STAGE CONSTRUCTION TYPICAL SECTION

PAVEMENT LEGEND

1 - EX HMA SURF CSE ±2½"
2 - EX PCC PAVEMENT ±9½"
3 - EX HMA BSE CSE WIDENING
4 - EX AGG SHOULDER
5 - EX GUARDRAIL
6 - PR PCC PAVEMENT 10" MIN.
7 - PR TEMPORARY PAVEMENT MARKING - LINE 4"
8 - PR HOT MIX ASPHALT SHOULDERS 8"
9 - PR AGGREGATE WEDGE SHOULDERS, TYPE B

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IL. Design Firm No. 184-001939

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

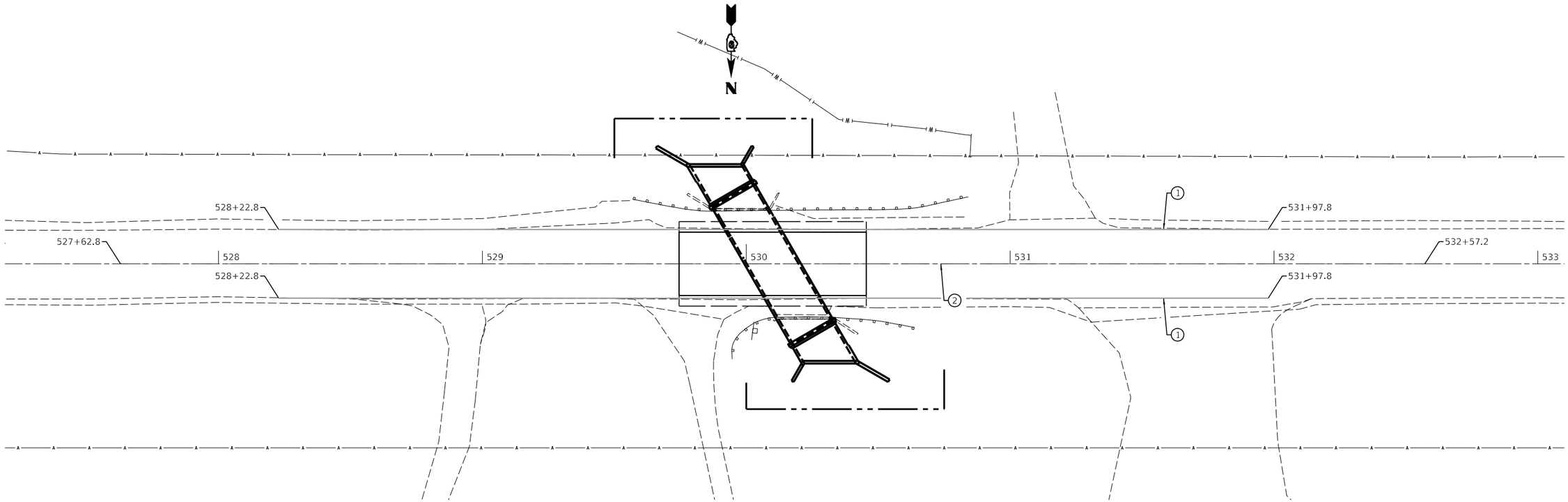
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STAGING TYPICAL SECTIONS

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
312	123B-5	JACKSON	101	14
		CONTRACT NO. 78790		
	ILLINOIS	FED. AID PROJECT		

LEGEND
① - PAINT PAVEMENT MARKING - LINE 4" (WHITE)
② - PAINT PAVEMENT MARKING - LINE 4" (YELLOW SKIP DASH)



PLAN

0 20 40

SCALE: 1" = 20'

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

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

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING PLAN

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
312	123B-5	JACKSON	101	15
		CONTRACT NO. 78790		
	ILLINOIS	FED. AID PROJECT		

ALIGNMENT INFO
FAP 312 (IL 3)

POINT#	STATION	NORTHING	EASTING
P.C.1	501+73.85	419175.16	2451479.85
P.T.1	526+13.85	419868.73	2449141.68
STAEQU2	526+15.53	419868.73	2449141.68
P.C.4	533+70.41	420044.93	2448407.66
P.T.4	565+20.41	420946.94	2445391.22

COORDINATE DATA

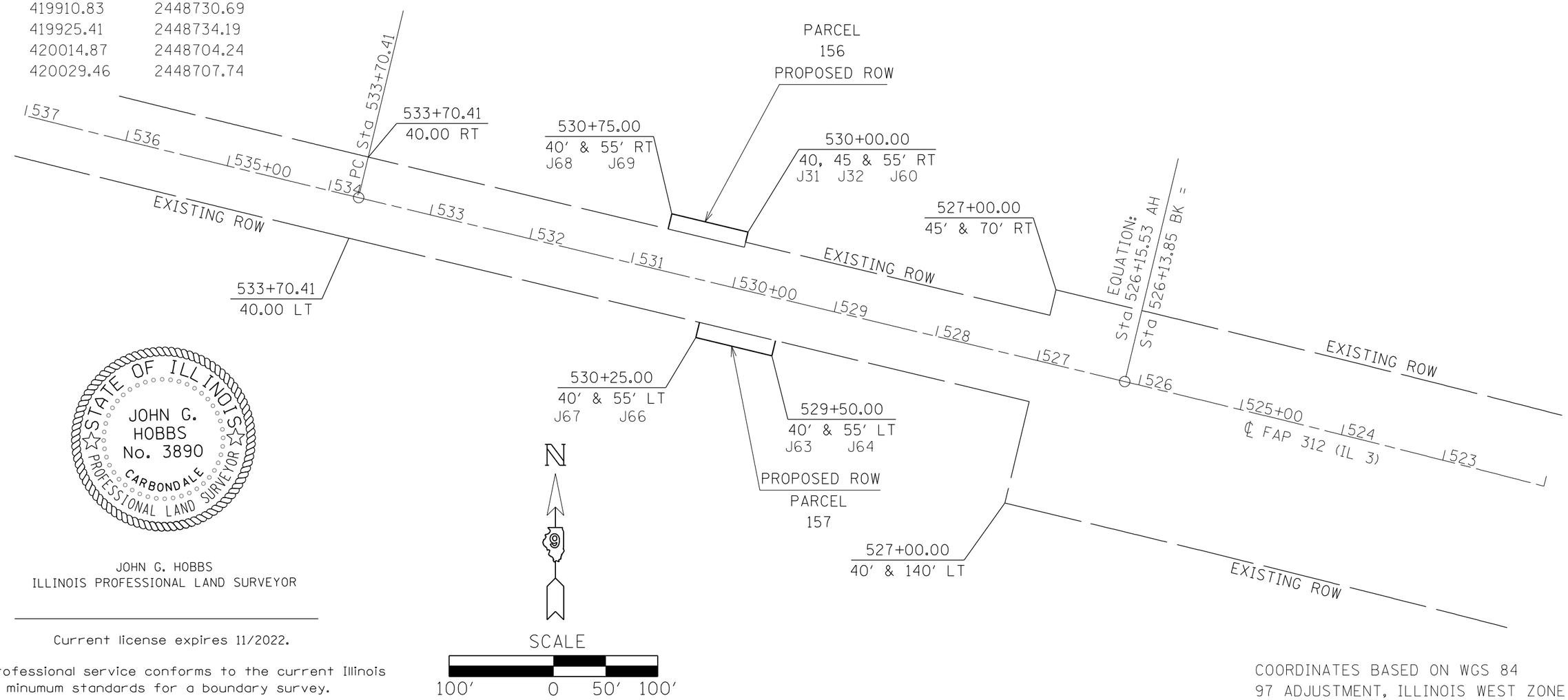
PT#	NORTHING	EASTING
J31	419997.37	2448777.17
J32	420002.23	2448778.34
J60	420011.95	2448780.67
J63	419907.91	2448807.12
J64	419893.32	2448803.62
J66	419910.83	2448730.69
J67	419925.41	2448734.19
J68	420014.87	2448704.24
J69	420029.46	2448707.74

PARCEL#	PROPERTY OWNER	PURPOSE	ACREAGE
156	CARL & RUBY HEINS	ROW	0.026 ACRES±
157	HEINS FARMS, INC.	ROW	0.026 ACRES±

NE QUARTER

SECTION 22

T. 8 S., R. 5 W., 3RD P.M.



STATE OF ILLINOIS
JOHN G. HOBBS
No. 3890
CARBONDALE
PROFESSIONAL LAND SURVEYOR

JOHN G. HOBBS
ILLINOIS PROFESSIONAL LAND SURVEYOR

Current license expires 11/2022.

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

N

SCALE
100' 0 50' 100'

COORDINATES BASED ON WGS 84
97 ADJUSTMENT, ILLINOIS WEST ZONE

MODEL: Default
FILE NAME: pw:\\dot-sw.bentley.com:PWIDOT\Documents\IDOT Offices\District 9\Projects\78790\CADData\CADSheets\D9xxxx-Sht-FROW.dgn

USER NAME = Ehren.Kirby	DESIGNED -	REVISED -	
	DRAWN -	REVISED -	
PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -	
PLOT DATE = 3/24/2023	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

RIGHT OF WAY SHEET
SN 039-2013 FAP 312(IL 3)

SCALE: 1" = 100' | SHEET 2 OF 2 SHEETS | STA. 523+00.00 | TO STA. 537+00.00

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
312	123B-5; B-6; B-7	JACKSON	101	16
		CONTRACT NO. 78790		
R-99-014-20	ILLINOIS FED. AID PROJECT			

B.M. 1013 Chiseled "□" on top of Northwest corner of concrete headwall of Structure No. 039-2013. Elev. 372.111

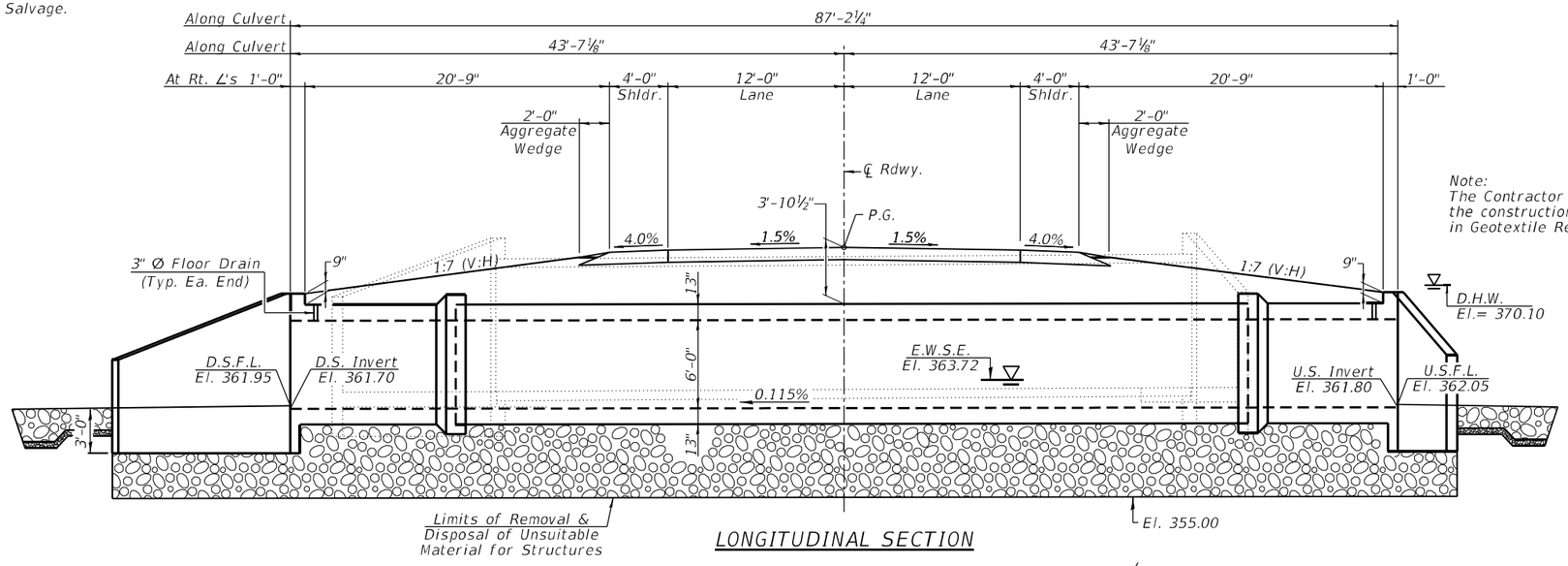
Existing Structure: S.N. 039-2013 originally built under SBI Route 150 under Section 123 in 1933. The structure is a double barrel reinforced concrete box culvert (8'-8"W x 8'-6"H) 41'-8" out-out of headwalls, 48'-1⅜" along centerline of culvert. 30°skew Rt. Fwd.

Traffic Control: Weekend road closure will be used to remove existing structure and to install the precast section of the culvert.

Precast End Sections are allowed.

No Salvage.

INDEX OF SHEETS



LONGITUDINAL SECTION

Note:
The Contractor shall retain the backfill material during the construction of the C.I.P. End Sections. Cost included in Geotextile Retaining Wall.

LOADING HL-93

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

DESIGN SPECIFICATIONS

2020 AASHTO LRFD Bridge Design Specifications, 9th Edition

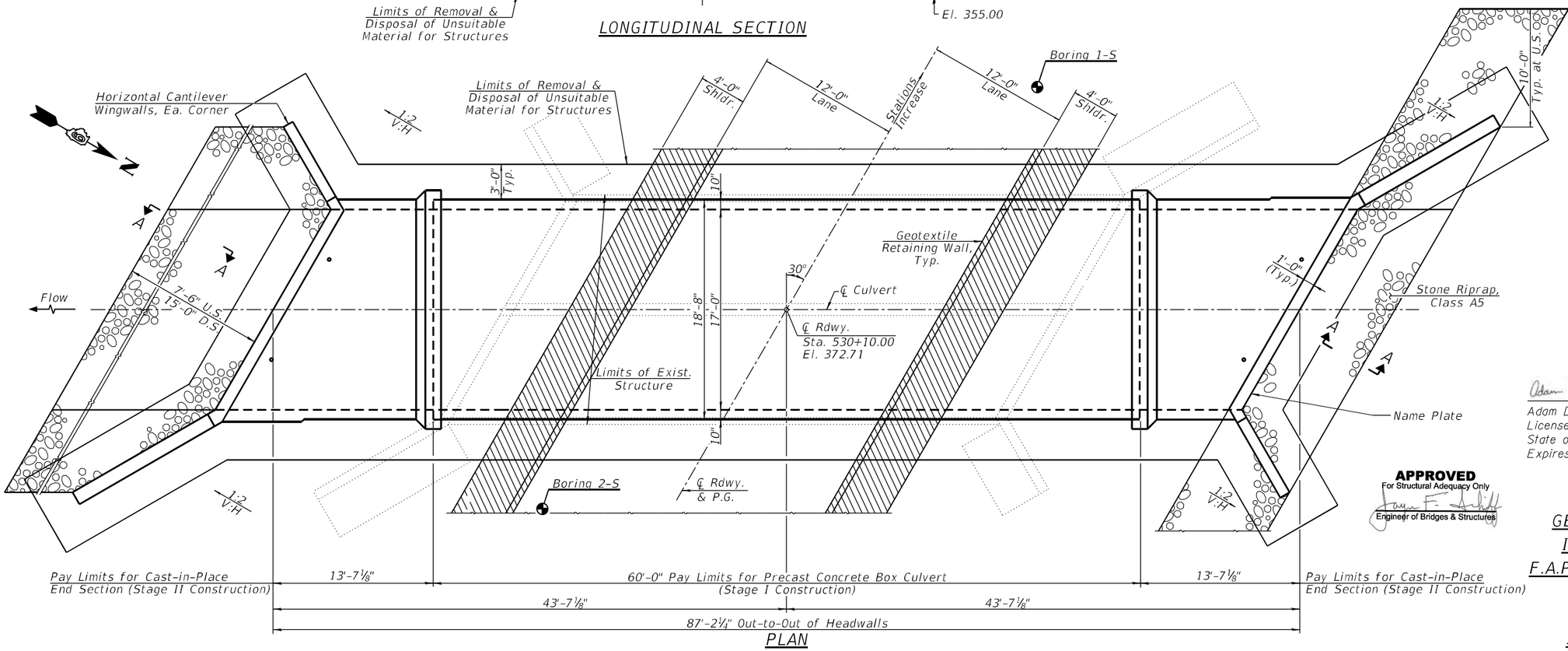
DESIGN STRESSES

PRECAST UNITS

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

FIELD UNITS

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



PLAN

ADAM D. BOHNHOFF 081-007431 LICENSED STRUCTURAL ENGINEER STATE OF ILLINOIS

Adam Bohnhoff 03/13/2023
Adam D. Bohnhoff Date
Licensed Structural Engineer
State of Illinois No. 081-007431
Expires 11-30-2024

APPROVED
For Structural Adequacy Only
Engineer of Bridges & Structures

GENERAL PLAN & ELEVATION
IL. ROUTE 3 OVER STREAM
F.A.P. RTE 312 - SECTION 123B-5
JACKSON COUNTY
STATION 530+10.00
STRUCTURE NO. 039-7126

CIVIL DESIGN, INC. WBE | DBE
EFFINGHAM, IL
LICENSE #184.003222

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

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL PLAN & ELEVATION
STRUCTURE NO. 039-7126
SHEET NO. 1 OF 12 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
312	123B-5	JACKSON	101	17
		CONTRACT NO. 78790		
	ILLINOIS FED. AID PROJECT			

GENERAL NOTES

Reinforcement bars designated (E) shall be epoxy coated

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

The design fill height for this box is 3.9 ft. The precast box culvert sections shall conform to the requirements of ASTM C1577.

Drain holes shall be provided on exterior culvert walls for each precast box segment with a clear rise greater than 3 ft. The drain hole shall be located within 1/3 of the clear rise of the box culvert, shall not intercept the haunch, and shall conform to the requirements of Article 503.11 of the Standard Specifications. A cubical 2' x 2' x 2' min. deposit of CA 5, CA 7, or CA 11 wrapped in a fabric envelope shall be placed over the drain holes in accordance with Article 502.10 of the Standard Specifications.

The limits and quantities of Removal and Disposal of Unsuitable Materials for Structures and replacement with Rock Fill – Foundation are based on the soil boring data and may be modified by the District Geotechnical Engineer and/or the Field Engineer for variable subsurface conditions actually encountered in the field.

TOTAL BILL OF MATERIAL

	ITEM	UNIT	TOTAL
	Porous Granular Embankment	Cu. Yd.	472
	Stone Riprap, Class A5	Ton	131
	Filter Fabric	Sq. Yd.	113
	Removal of Existing Structures No. 1	Each	1
	Removal and Disposal of Unsuitable Materials for Structures	Cu. Yd.	554
	Name Plates	Each	1
	Geotextile Retaining Wall	Sq. Ft.	846
	Box Culvert End Sections, Culvert No. 1	Each	2
	Precast Concrete Box Culvert (Special)	Foot	60
	Geocomposite Wall Drain	Sq. Yd.	224
	Membrane Waterproofing System for Buried Structures	Sq. Yd.	224
	Rock Fill – Foundation	Ton	1,136
*	Concrete Box Culverts	Cu. Yd.	79.0
*	Reinforcement Bars, Epoxy Coated	Pound	19,740

* For information only. Quantities included with Box Culvert End Sections, Culvert No. 1

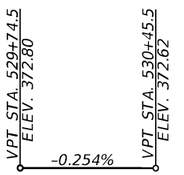
WATERWAY INFORMATION

Drainage Area = 0.9 Sq. Mi.

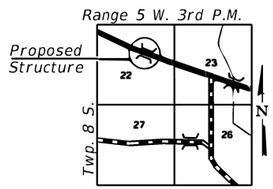
Exist. Overtopping Elev. = 372.15 @ Sta. 531+25
Prop. Overtopping Elev. = 372.15 @ Sta. 531+25

Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft. Exist.	Opening Sq. Ft. Prop.	Nat. H.W.E.	Head – Ft. Exist.	Head – Ft. Prop.	Headwater El. Exist.	Headwater El. Prop.
	10	730	125	98	369.6	2.1	1.9	371.7	371.5
Design	50	1260	134	98	370.1	2.4	2.4	372.5	372.5
Base	100	1520	138	98	370.3	2.2	2.2	372.5	372.5
Max. Calc.	50	1260	134	98	370.1	2.4	2.4	372.5	372.5

10 Yr. Outlet Velocity through Exist. Structure = 5.8 ft/s
10 Yr. Outlet Velocity through Prop. Structure = 7.4 ft/s



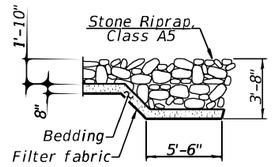
PROFILE GRADE
(Along ℄ IL Rte. 3)



LOCATION SKETCH

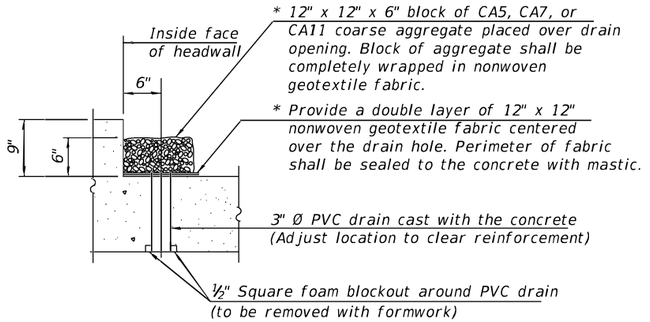
STATION 530+10.00
BUILT 20 BY
STATE OF ILLINOIS
F.A.P. RTE. 312 SEC. 123B-5
LOADING HL-93
STR. NO. 039-7126

NAME PLATE
(Std. 515001)



SECTION A-A

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



DRAIN DETAIL (4 each)

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

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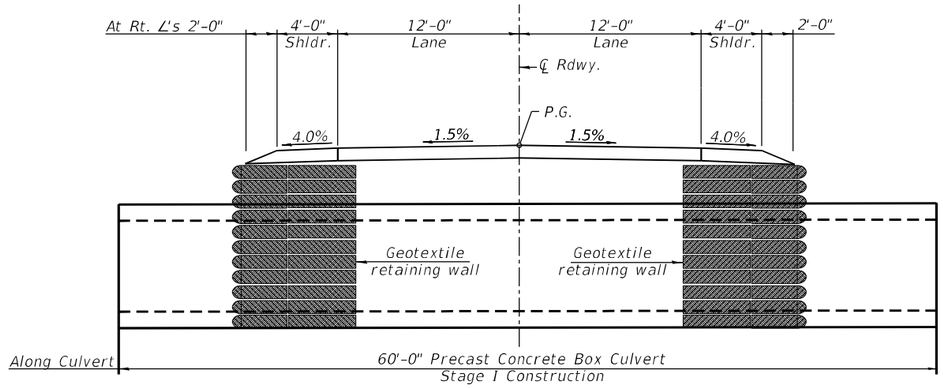
PLOT DATE =	CHECKED - ADB	REVISED -	

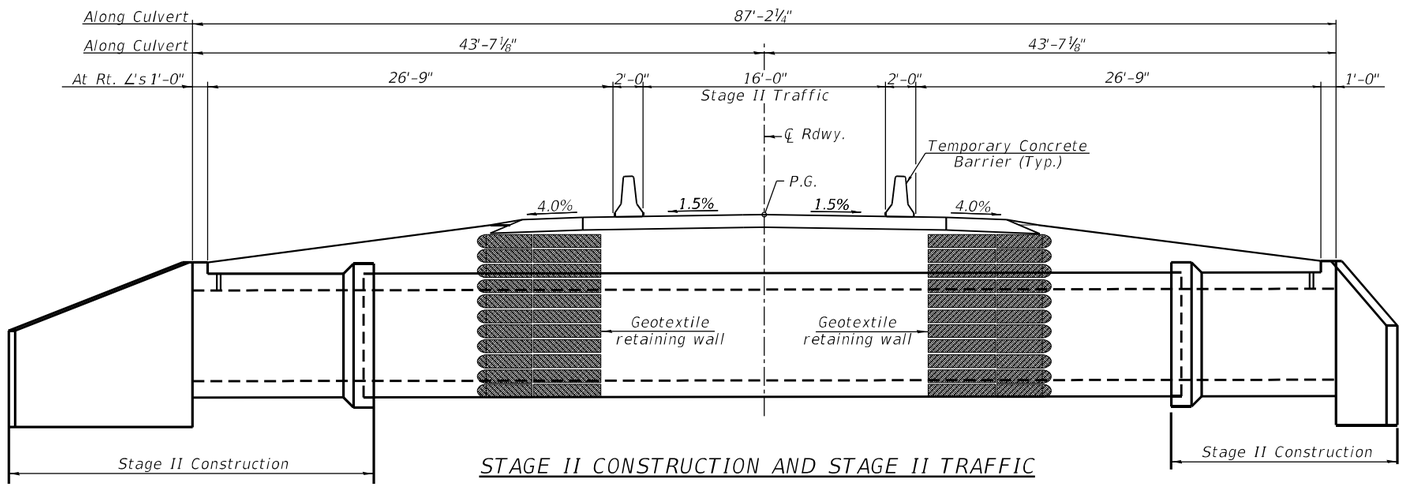
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL DATA
STRUCTURE NO. 039-7126
SHEET NO. 2 OF 12 SHEETS

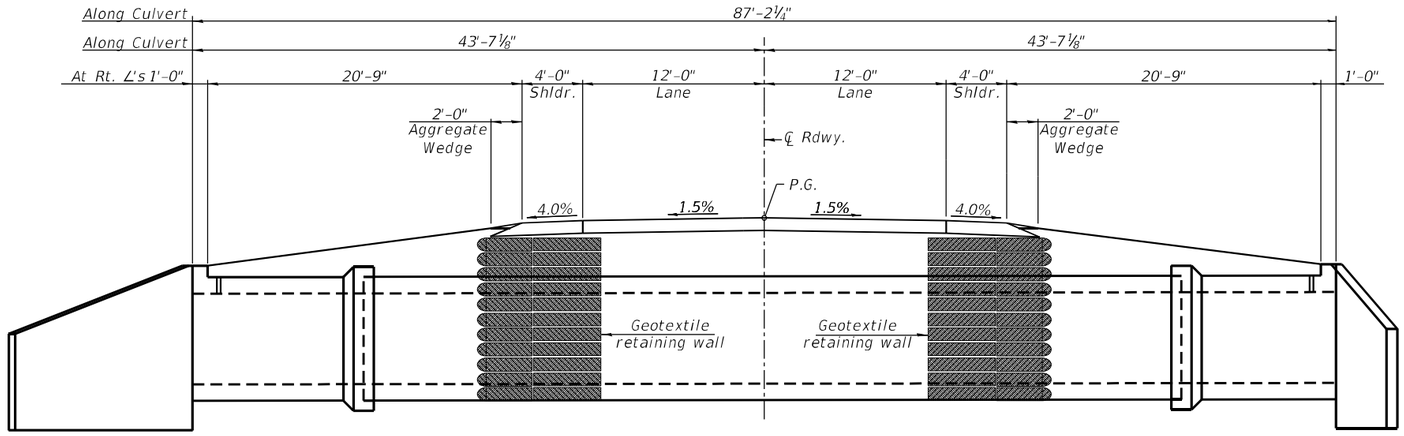
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
312	123B-5	JACKSON	101	18
		CONTRACT NO. 78790		
	ILLINOIS FED. AID PROJECT			



STAGE I CONSTRUCTION



STAGE II CONSTRUCTION AND STAGE II TRAFFIC



PROPOSED CROSS SECTION

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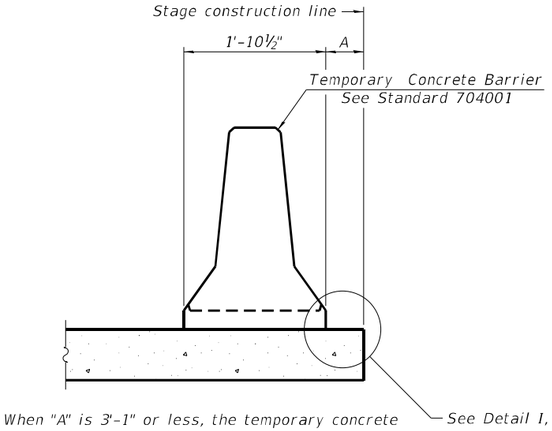
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

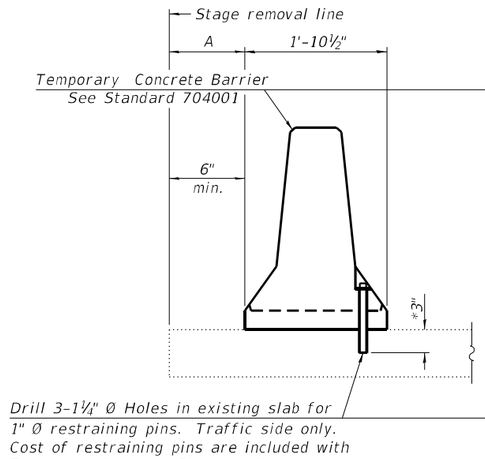
STAGE CONSTRUCTION DETAILS
STRUCTURE NO. 039-7126
SHEET NO. 3 OF 12 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
312	1238-5	JACKSON	101	19
		CONTRACT NO. 78790		
	ILLINOIS FED. AID PROJECT			



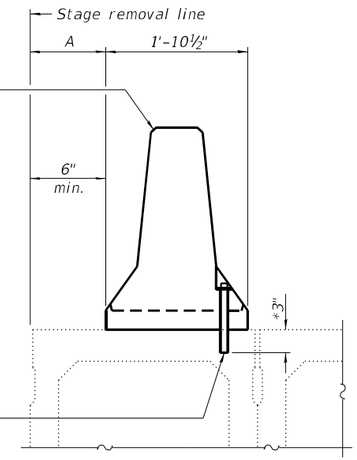
When "A" is 3'-1" or less, the temporary concrete barrier shall be restrained to the new slab according to Detail I, II or III. No restraint is required when "A" is greater than 3'-1".

NEW SLAB OR NEW DECK BEAM



Drill 3-1¼" 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".

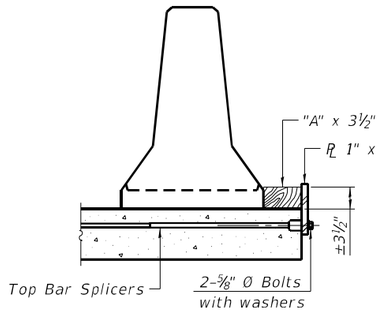
EXISTING SLAB



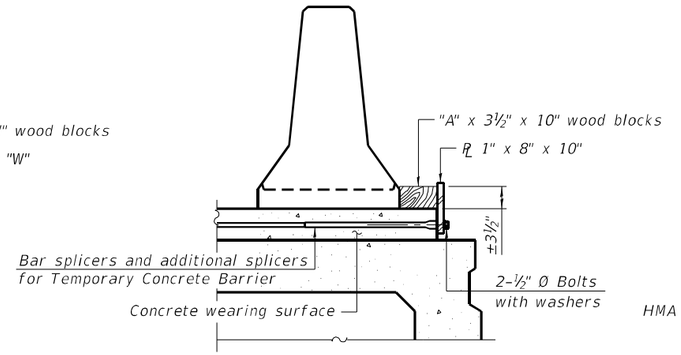
* When hot-mix asphalt wearing surface is present, embedment shall be 3" plus the wearing surface depth.

EXISTING DECK BEAM

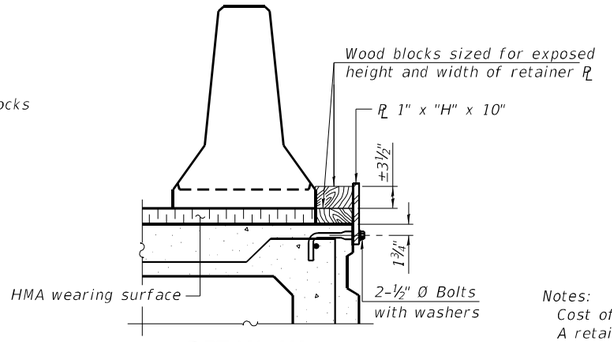
SECTIONS THRU SLAB OR DECK BEAM



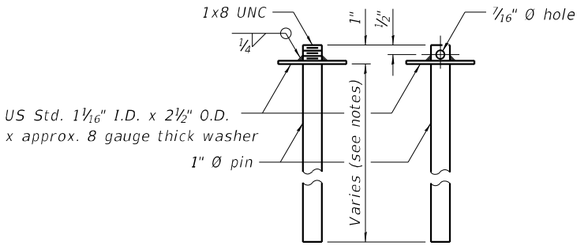
DETAIL I



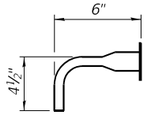
DETAIL II



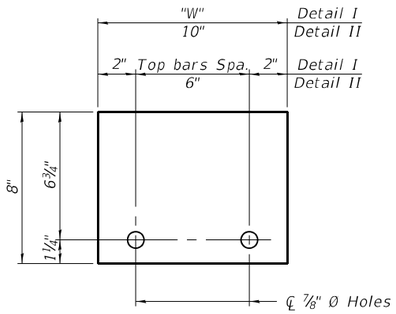
DETAIL III



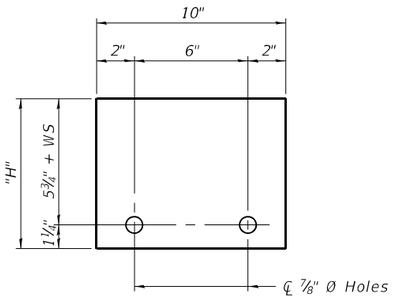
RESTRAINING PIN



BAR SPLICER FOR #4 BAR - DETAIL III



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



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

RAILING CRITERIA

NCHRP 350 Test Level	3
Railing Weight (plf)	440

Notes:

Cost of retainer assembly is included with Temporary Concrete Barrier.

A retainer assembly shall be located at the approximate ℄ 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 1½", 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.

R-27

10-12-2021

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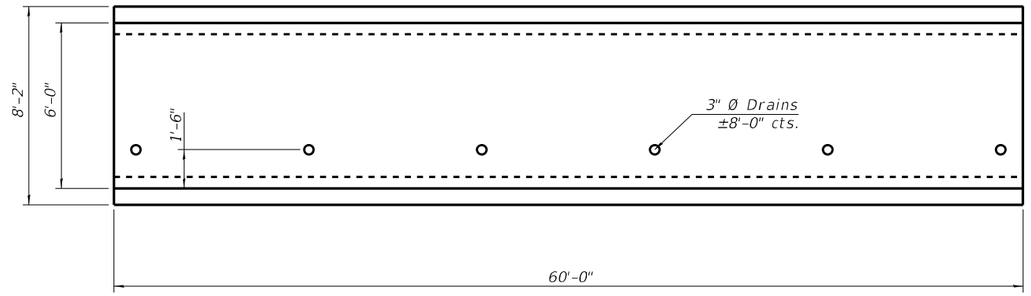
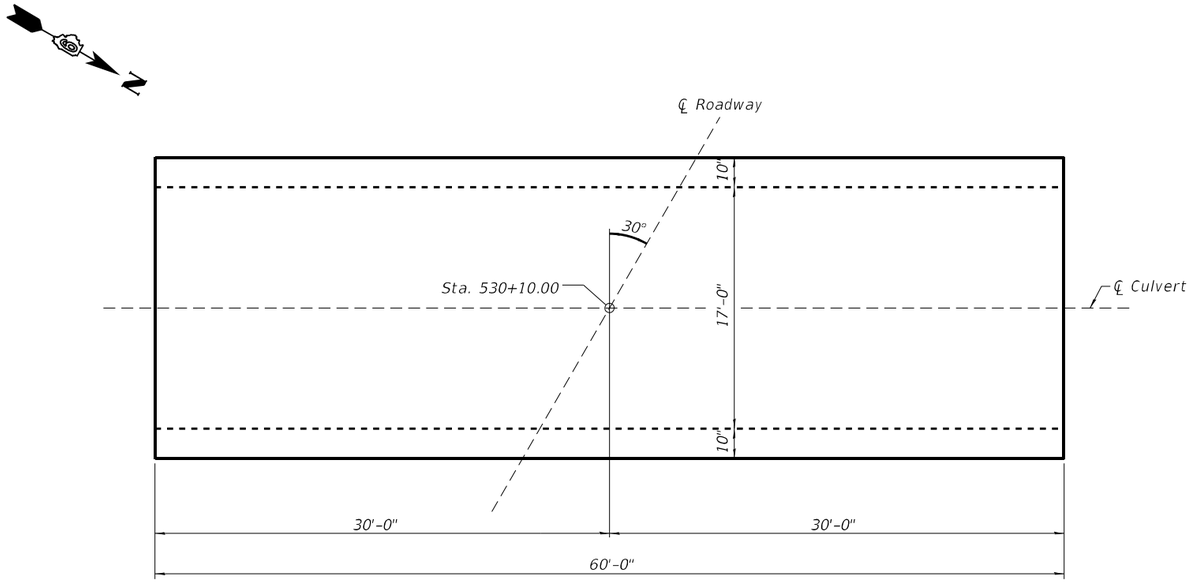
TEMP. CONCRETE BARRIER FOR STAGE CONSTRUCTION
STRUCTURE NO. 039-7126
SHEET NO. 4 OF 12 SHEETS

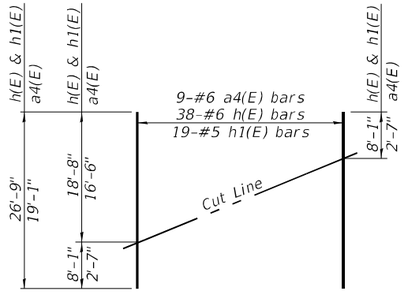
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
312	123B-5	JACKSON	101	20
		CONTRACT NO. 78790		
	ILLINOIS FED. AID PROJECT			



PRECAST LONGITUDINAL SECTION

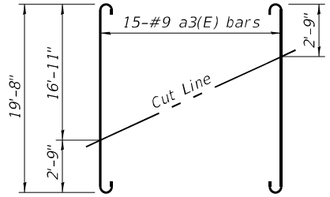


PRECAST PLAN



FIELD CUTTING DIAGRAM

Order a4(E), h(E) & h1(E) bars full length. Cut as shown and use remainder of bars in opposite face.



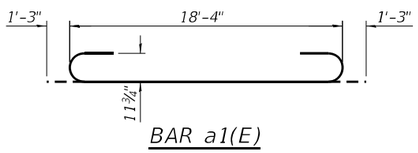
FIELD CUTTING DIAGRAM

Order a3(E) bars full length. Cut as shown and use remainder of bars in opposite face.

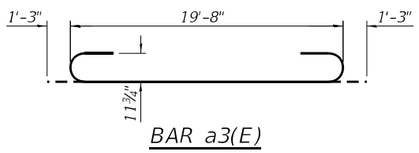
CIP END SECTIONS
BILL OF MATERIAL

(For Information Only - 2 Total)

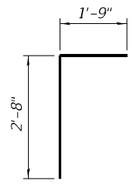
Bar	No.	Size	Length	Shape
a(E)	2	#4	21'-4"	
a1(E)	60	#9	20'-10"	
a2(E)	36	#6	18'-4"	
a3(E)	30	#9	22'-2"	
a4(E)	18	#6	19'-1"	
d(E)	38	#4	4'-5"	
h(E)	76	#6	26'-9"	
h1(E)	114	#5	26'-9"	
h2(E)	14	#5	18'-8"	
h3(E)	14	#5	9'-0"	
h4(E)	6	#10	21'-4"	
h5(E)	8	#6	21'-4"	
h6(E)	22	#7	8'-0"	
h7(E)	32	#7	8'-0"	
h8(E)	22	#7	11'-9"	
h9(E)	32	#7	17'-9"	
s(E)	20	#4	5'-5"	
s1(E)	20	#4	5'-3"	
v(E)	52	#5	7'-10"	
v1(E)	20	#4	10'-6"	
x(E)	124	#4	7'-6"	
x1(E)	12	#4	19'-8"	
x2(E)	12	#4	9'-2"	
Concrete Box Culverts			Cu. Yd.	79.0
Reinforcement Bars, Epoxy Coated			Pound	19,740



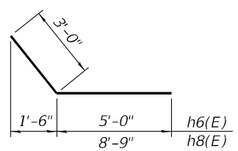
BAR a1(E)



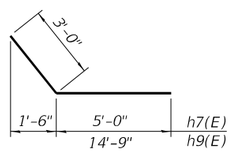
BAR a3(E)



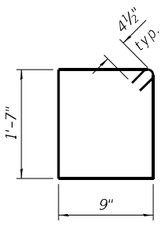
BAR d(E)



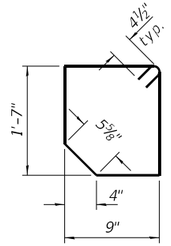
BARS h6(E) & h8(E)



BARS h7(E) & h9(E)



BAR s(E)



BAR s1(E)

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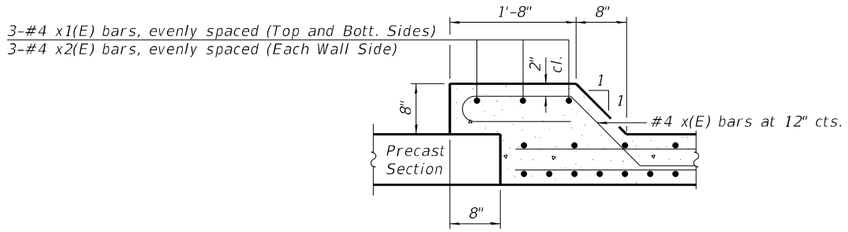
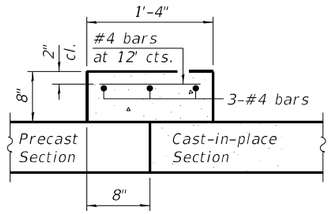
BOX CULVERT DETAILS - 1
STRUCTURE NO. 039-7126
SHEET NO. 5 OF 12 SHEETS

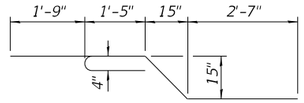
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
312	123B-5	JACKSON	101	21
		CONTRACT NO. 78790		
	ILLINOIS FED. AID PROJECT			



SECTION THRU CONNECTION COLLAR

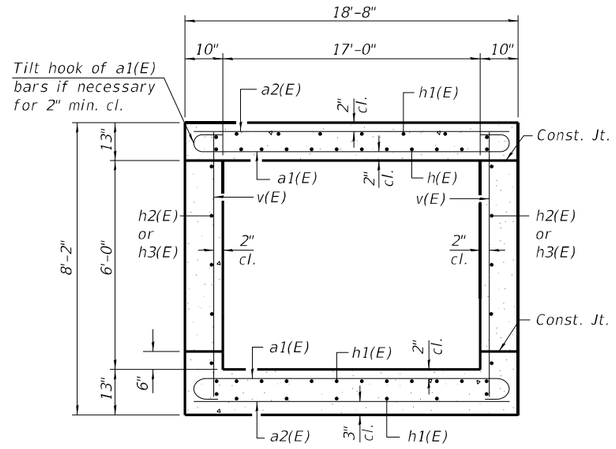


ALTERNATE SECTION THRU CONNECTION COLLAR

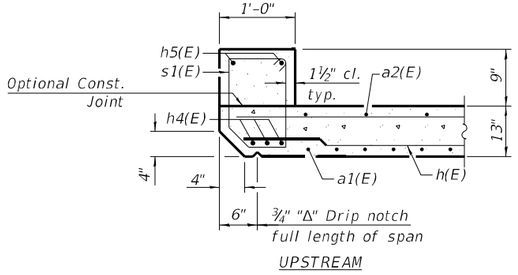


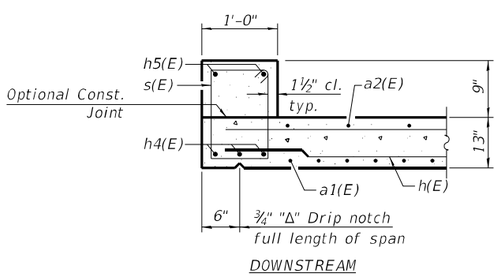
BAR x(E)

(21 bars - Top Side, Each End Section)
(21 bars - Bottom Side, Each End Section)
(10 bars - Each Wall, Each End Section)

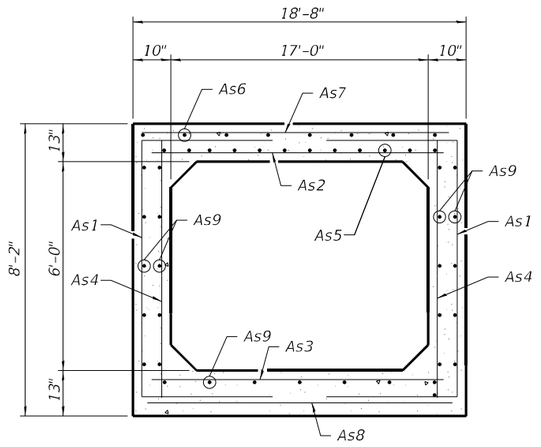


SECTION THRU CIP END SECTIONS





SECTION THRU HEADWALL



PRECAST BARREL REINFORCEMENT

(Reinforcement shall be Epoxy Coated)

PRECAST GENERAL NOTES

1. Precast Concrete Culverts, 17'x6' (Special) shall conform to the requirements of Article 540.06 of the Standard Specifications, the applicable requirements of AASHTO M 259 and ASTM C1577-17.

   The minimum precast concrete strength shall be 5,000 psi.

   Lifting holes shall be filled with concrete plugs and mastic after the box sections are in place.

   The design fill height is 3.9 feet.

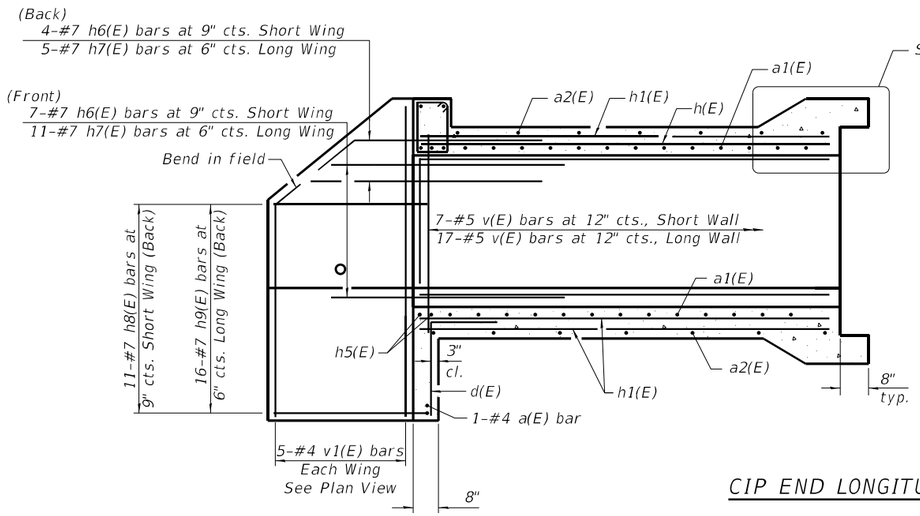
2. Contractor shall maintain streamflow in accordance with the Standard Specifications Article 502.

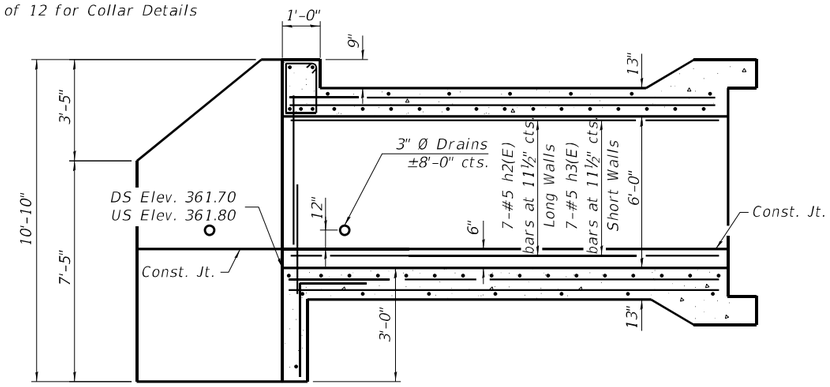
3. Cover from the face of precast concrete reinforcement bars shall be 2" for the top of the top slab, and 1" for all other surfaces.

4. The reinforcement bar areas shown on this plan sheet are based on welded wire reinforcement (WWR). The Contractor may use steel reinforcement bars in lieu of WWR. Reinforcement bars shall be limited to the sizes of #3 through #5 bars, and have a maximum spacing of the lesser of 8" or the member thickness. The reinforcement areas shown on this plan sheet shall be increased to account for the difference in steel yield strength in accordance with ASTM C1577, Section 12.6.

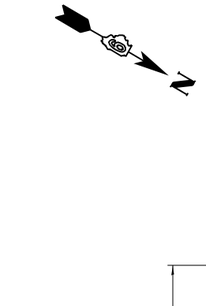
Minimum Reinforcement

As1	0.75 in²/ft.
As2	0.93 in²/ft.
As3	0.95 in²/ft.
As4	0.33 in²/ft.
As5	0.52 in²/ft.
As6	0.14 in²/ft.
As7	0.33 in²/ft.
As8	0.33 in²/ft.
As9	0.52 in²/ft.



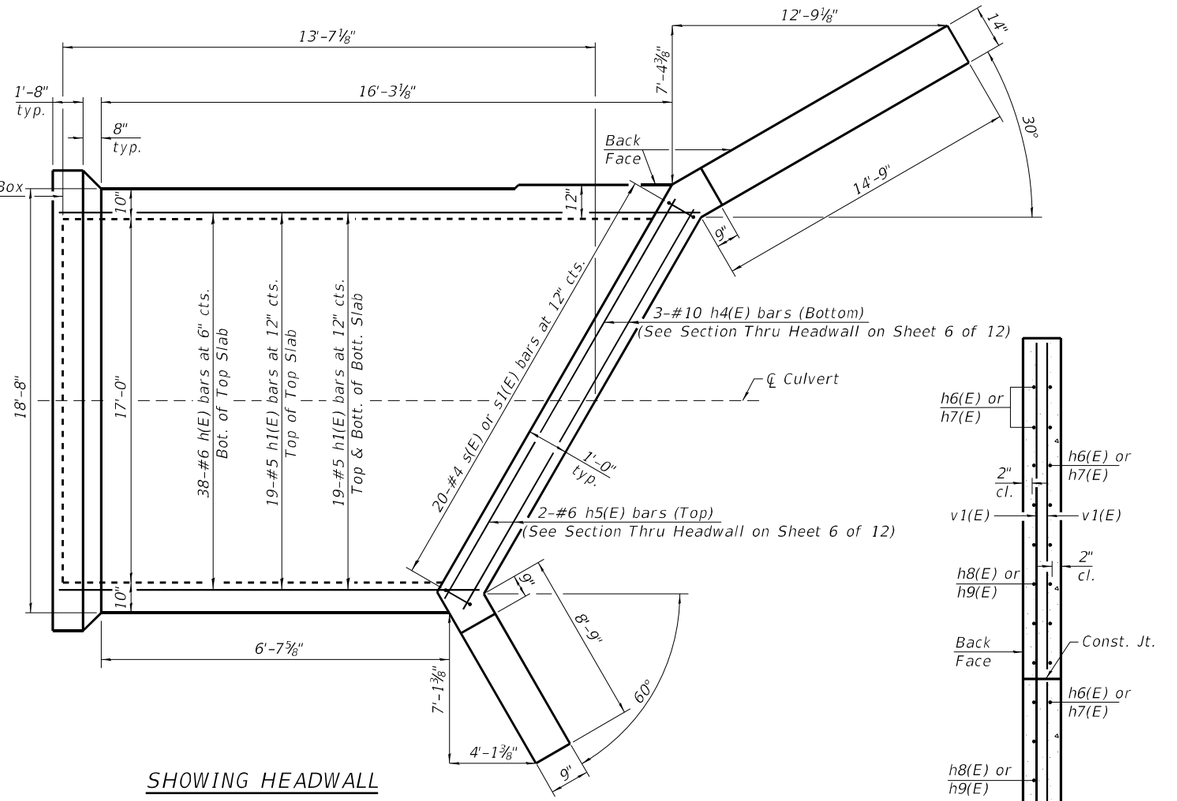


CIP END LONGITUDINAL SECTION



SHOWING TOEWALL

Flow

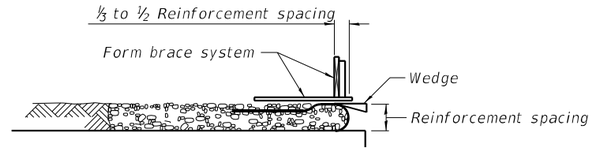


SHOWING HEADWALL

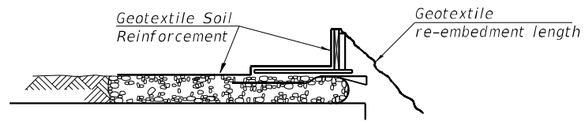
SECTION A-A

CIP END SECTION PLAN

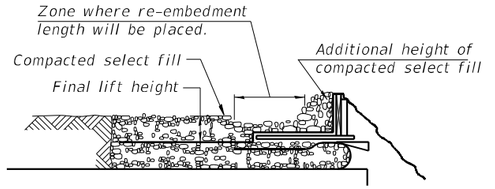
Note:
A distance of half the length of the wingwall but not less than six feet of the barrel shall be poured monolithically with the wingwalls.



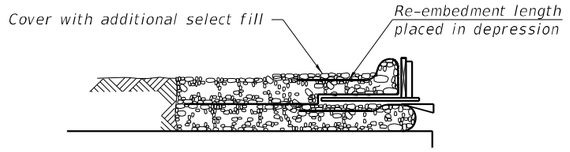
1. Place form brace system on completed reinforcement level; back from the finished fabric face a distance of ⅓ to ½ the geotextile reinforcement spacing.



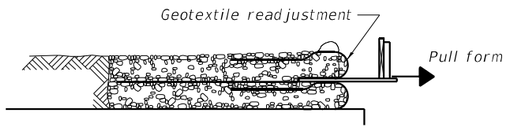
2. Position fabric so that the required geotextile re-embedment length extends over the top of the form brace and the design reinforcement width is placed with no slack against the previous level.



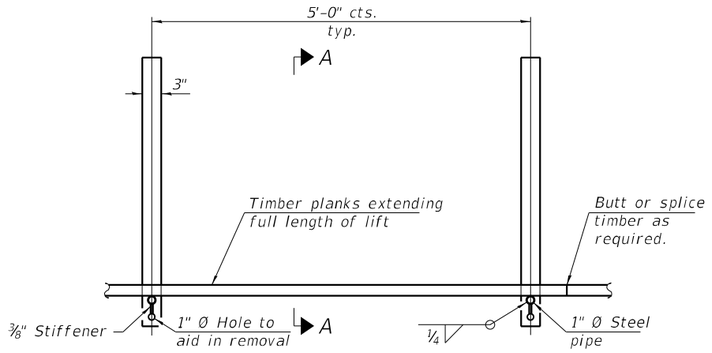
3. Compact select fill material in lifts to final lift height, create (±3") depression in zone where re-embedment length will be located and place additional height of compacted select fill against form brace.



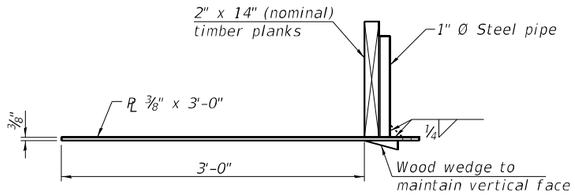
4. Fold geotextile re-embedment length back over form brace into zone where depression was made in select fill and place additional select fill (±3") to embed geotextile and bring to final lift height.



5. Pull form brace outward allowing geotextile face to slightly readjust to form tight round face level with plan reinforcement spacing.



PLAN



SECTION A-A

GEOTEXTILE WALL CONSTRUCTION SEQUENCE

Notes:
The geotextile soil reinforcement shall have a minimum allowable tensile strength (T min.) of 50 lb./in. as determined by the procedure described in the Standard Specifications for Road and Bridge Construction.

The computations supporting the determination of (T min.) shall be submitted to the engineer for approval.

GEOTEXTILE FORM BRACE DETAIL

Note:
This is a suggested detail, the Contractor is responsible for the design of the form brace system to be used.

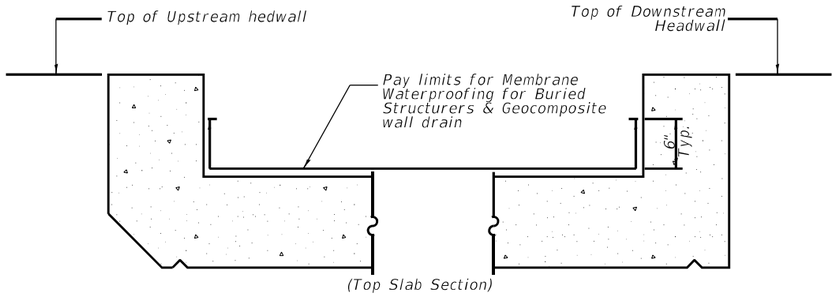
CIVIL DESIGN, INC.
WBE | DBE
EFFINGHAM, IL
LICENSE #184.003222

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

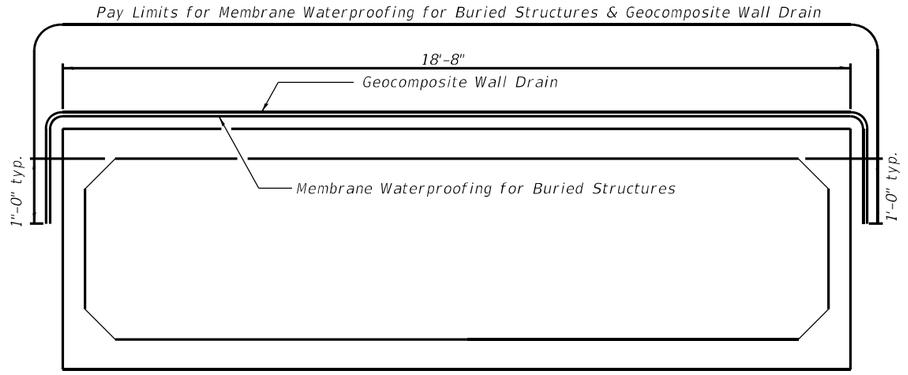
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BOX CULVERT DETAILS - 4
STRUCTURE NO. 039-7126
SHEET NO. 8 OF 12 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
312	123B-5	JACKSON	101	24
		CONTRACT NO. 78790		
	ILLINOIS	FED. AID PROJECT		



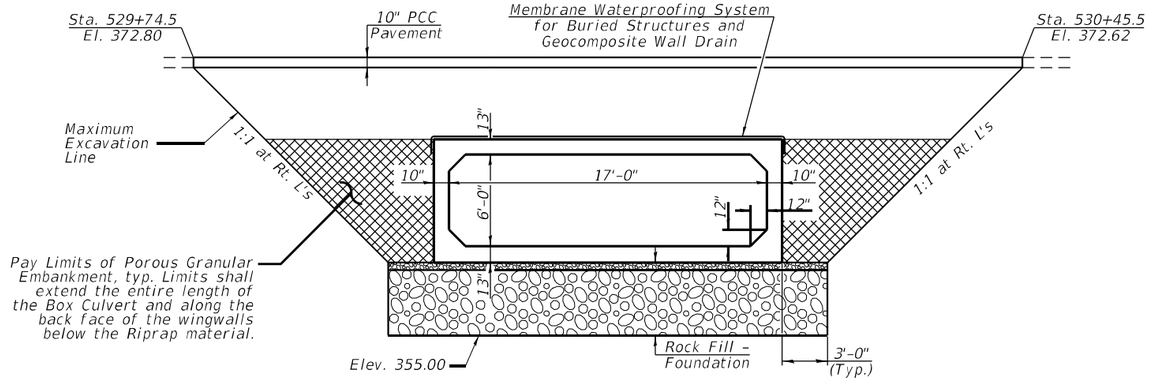
(Top Slab Section)



(Looking at Box Section)

MEMBRANE WATERPROOFING FOR BURIED STRUCTURES

Note: Membrane Waterproofing for Culvert shall cover top of the top slab, top one foot of side walls (below top slab joint), and 6 inches up inside face of headwalls.



SECTION THRU BARREL

(All horizontal dimensions are shown at Right Angles)

(Existing bridge foundation within the limits of the proposed construction to be removed.)

Note:

The Rock Fill shall be capped according to the Rock Fill – Foundation Special Provision. The cost of the capping material shall be included in the pay item for Rock Fill – Foundation.

Illinois Department of Transportation
Division of Highways
District 9

SOIL BORING LOG

Date 4/10/20

ROUTE IL 3 **DESCRIPTION** Box Culvert over stream **LOGGED BY** Lee Estel

SECTION 123B-5 **LOCATION** 1.8 mi. E of Randolph County line, **SEC.** 22, **TWP.** 8S, **RNG.** 5W, 3 **PM**

COUNTY Jackson **DRILLING METHOD** Hollow stem auger (8" O.D., 3.25" I.D.) **HAMMER TYPE** Auto SPT 140 lb

STRUCT. NO. 039-2013
Station 530+10

BORING NO. 1-S
Station 530+37
Offset 9.0ft RT
Ground Surface Elev. 372.9 ft

Surface Water Elev. ft
Stream Bed Elev. 362.8 ft

Groundwater Elev.:
▽ **First Encounter** 355.9 ft
▽ **Upon Completion** ft
▼ **After** Hrs. ft

DEPTH (ft)	BLOWS	UCS Qu (tsf)	MOIST (%)	DEPTH (ft)	BLOWS	UCS Qu (tsf)	MOIST (%)
Cored Pavement, 2.5" HMA over 9.5" PCC 371.90				V. Soft Brown, Moist SILT *(continued)* 351.90	WOH	0.2	29
Stiff Brown, Moist SILTY CLAY	2				WOH	B	
	5	1.8	17				
	5	B					
368.40							
M. Stiff Brown, Moist SILT -5	1			-25			
	3	0.9	21				
	4	B					
	1						
	2	0.8	21				
	4	B					
363.40							
Soft Brown, Moist SILT -10	WOH			-30			
	2	0.4	21	Bottom of hole @ 21.0 ft			
	1	B					
360.90				Elevation referenced to BM 1013, Cut Square on NW Corner HDWL of 039-2013; EL. 372.11			
M. Stiff Brown, Moist SILT	WOH						
	WOH	0.7	28	To convert "N" values to "N60", multiply by 1.5			
	WOH	B					
-15	WOH			-35			
	WOH	0.5	28				
	WOH	B					
▽							
	WOH						
	WOH	0.7	26				
	WOH	B					
353.40							
V. Soft Brown, Moist SILT -20	WOH			-40			

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)

File Name S:\MATERIALS GEOTECHNICAL UNIT\GINT\PROJECTS\PRCJECTS FILE\JACKSON\STRUCTURES\039-2013 IL 3 OVER STREAM\039-2013 IL 3 OVER STREAM 2020.GPJ Data Template D6TEMPLT.GDT Date Printed 4/21/20
Latitude 37 49 08.04 Longitude -89 38 23.22 Datum Job Number

Illinois Department of Transportation
Division of Highways
District 9

SOIL BORING LOG

Date 4/10/20

ROUTE IL 3 **DESCRIPTION** Box Culvert over stream **LOGGED BY** Lee Estel

SECTION 123B-5 **LOCATION** 1.8 mi. E of Randolph County line, **SEC.** 22, **TWP.** 8S, **RNG.** 5W, 3 **PM**

COUNTY Jackson **DRILLING METHOD** Hollow stem auger (8" O.D., 3.25" I.D.) **HAMMER TYPE** Auto SPT 140 lb

STRUCT. NO. 039-2013
Station 530+10

BORING NO. 2-S
Station 529+85
Offset 9.5ft LT
Ground Surface Elev. 373.0 ft

Surface Water Elev. ft
Stream Bed Elev. 362.8 ft

Groundwater Elev.:
▽ **First Encounter** 356.0 ft
▽ **Upon Completion** ft
▼ **After** Hrs. ft

DEPTH (ft)	BLOWS	UCS Qu (tsf)	MOIST (%)	DEPTH (ft)	BLOWS	UCS Qu (tsf)	MOIST (%)
Cored Pavement, 2.5" HMA over 9.5" PCC 372.00				M. Stiff Brown, Moist SILT *(continued)* 352.00	1	0.5	35
V. Stiff Brown, Moist SILTY CLAY	1				2	P	
	3	2.5	26				
	4	B					
(Stiff) -5	1			-25			
	3	1.2	20				
	4	B					
366.00							
Stiff Brown, Moist SILT	1						
	3	1.1	21				
	4	B					
363.50							
M. Stiff Brown, Moist SILT -10	1			-30			
	2	0.5	23	Bottom of hole @ 21.0 ft			
	2	B					
	WOH			Elevation referenced to BM 1013, Cut Square on NW Corner HDWL of 039-2013; EL. 372.11			
	2	0.8	29				
	2	B		To convert "N" values to "N60", multiply by 1.5			
358.50							
V. Soft Brown, Moist SILT -15	WOH			-35			
	WOH	0.2	28				
	WOH	P					
▽							
	WOH						
	WOH	0.2	28				
	WOH	P					
353.50							
M. Stiff Brown, Moist SILT -20	WOH			-40			

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)

File Name S:\MATERIALS GEOTECHNICAL UNIT\GINT\PROJECTS\PRCJECTS FILE\JACKSON\STRUCTURES\039-2013 IL 3 OVER STREAM\039-2013 IL 3 OVER STREAM 2020.GPJ Data Template D6TEMPLT.GDT Date Printed 4/21/20
Latitude 37 49 08.33 Longitude 89 38 23.87 Datum Job Number

BOND ISSUE ROUTE NO.	SEC.	COUNTY	TOTAL SHEETS	SHEET NO.
150	C-123	Jackson	93	1
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT	194	

STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS AND BUILDINGS
DIVISION OF HIGHWAYS
PLANS FOR PROPOSED
STATE BOND ISSUE HIGHWAY

SCALES

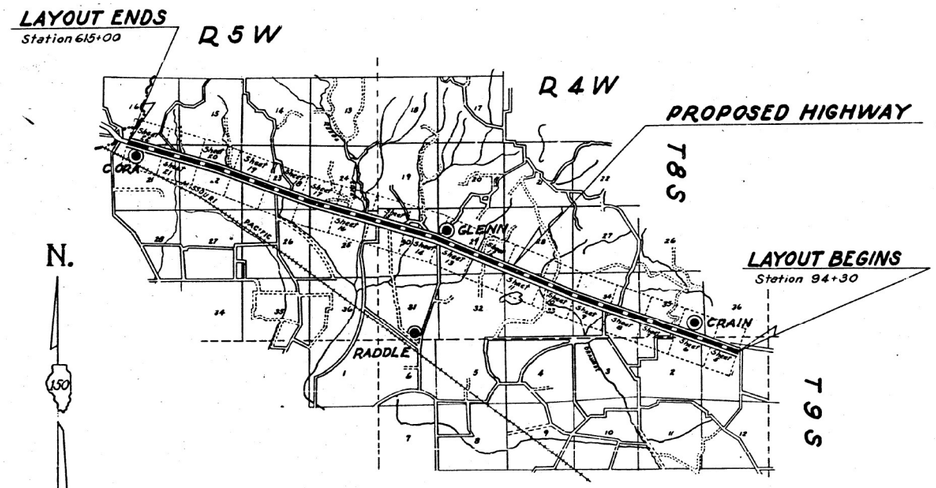
PLAN	1 INCH	100 FT.
PROFILE, HOR.	1 INCH	100 FT.
PROFILE, VERT.	1 INCH	10 FT.
CROSS-SECTIONS	1 INCH	5 FT.

F.A. PROJECT 194-C
ROUTE 150 SECTION 123 JACKSON COUNTY

FROM A POINT NEAR THE S.E. CORNER OF THE N.E. ¼ N.W. ¼ OF SEC. 1. T. 9S. R. 4W. OF THE 3 RD. P.M.
TO A POINT NEAR THE S.W. CORNER OF THE S.E. ¼ S.W. ¼ OF SEC. 16 T. 8S. R. 5W. OF THE 3 RD. P.M.

INDEX OF SHEETS

039-2013



LAYOUT

Approximate Scale 1 Inch = 1 Mile
Net Length of Layout 52070 Feet = 9.8617 Mile

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

SUBMITTED February 4 1932
G.A. Somerville DISTRICT ENGINEER

EXAMINED April 6 1932
C.D. Dufford ROAD ENGINEER

PASSED April 6 1932
ENGINEER OF ROADS

APPROVED April 6 1932
CHIEF HIGHWAY ENGINEER

APPROVED April 11 1932
ACTING SUPERINTENDENT OF HIGHWAYS
DIRECTOR

RECOMMENDED FOR APPROVAL
DISTRICT ENGINEER, Bureau of Public Roads

RECOMMENDED FOR APPROVAL
CHIEF ENGINEER, Bureau of Public Roads

APPROVED
CHIEF, Bureau of Public Roads

STATE LINE
COUNTY LINE
CITY, VILLAGE OR TOWN
TOWNSHIP LINE
SECTION LINE
GRANT LINE
SECTION CORNER
FENCE LINE
UNFENCED PROPERTY
RIGHT OF WAY LINE
GUARD RAIL
STEAM RAILROAD
ELECTRIC RAILROAD
RETAINING WALL
BASE OR SURVEY LINE
LEVEE
CULVERT
STORM SEWER
TILE DRAIN
DROP INLET
TROLLEY POLE
POWER POLE
TELEPHONE OR TELEGRAPH POLE
MARSH
HEDGE

039-2013

9-23

EE 4-4-32

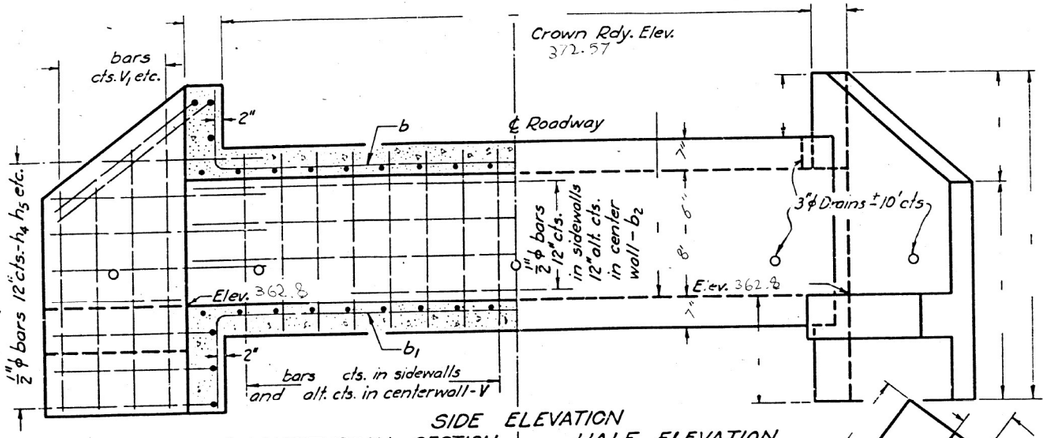
JACKSON COUNTY SECTION 123 ROUTE 150

CIVIL DESIGN, INC. WBE | DBE EFFINGHAM, IL LICENSE # 184.003222	USER NAME =	DESIGNED - JAG	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
		CHECKED - ADB	REVISED -	EXISTING STRUCTURE PLANS - 1 STRUCTURE NO. 039-7126 SHEET NO. 11 OF 12 SHEETS
	PLOT SCALE =	DRAWN - JAG	REVISED -	
	PLOT DATE =	CHECKED - ADB	REVISED -	

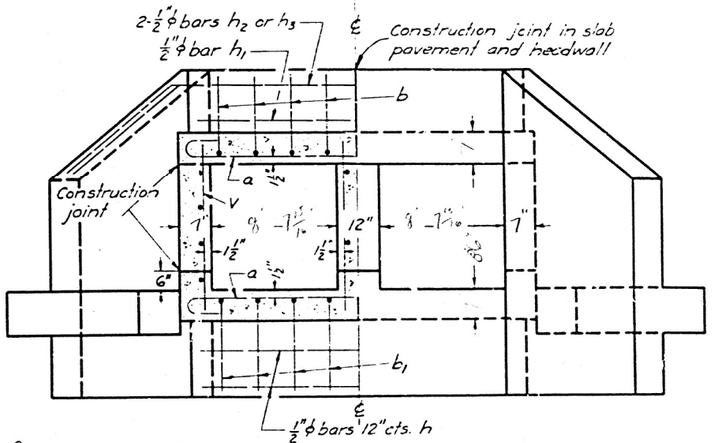
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
312	123B-5	JACKSON	101	27
		CONTRACT NO. 78790		
	ILLINOIS	FED. AID PROJECT		

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

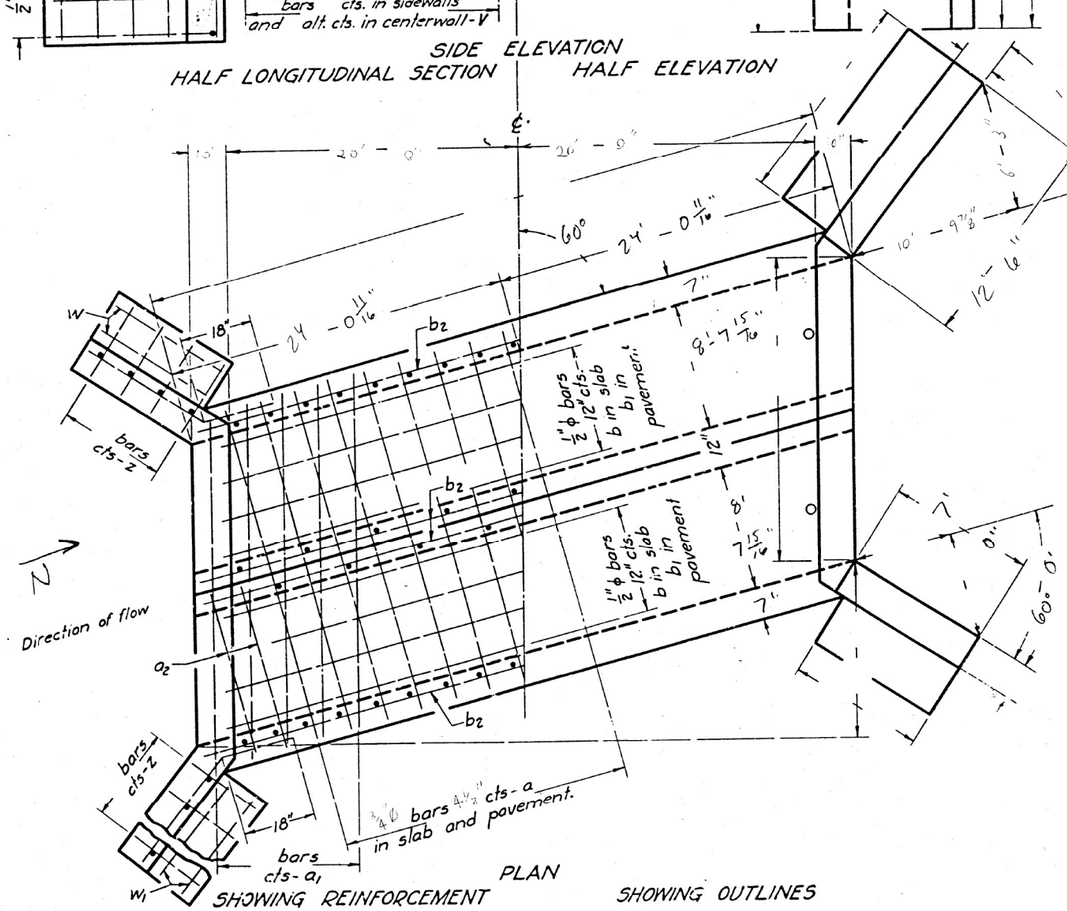
SHEET NO 1
1 SHEETS



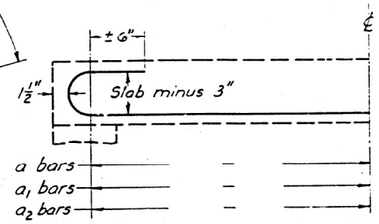
SIDE ELEVATION
HALF LONGITUDINAL SECTION



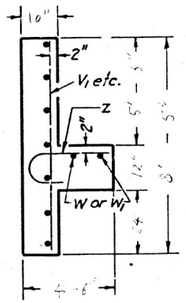
END ELEVATION
HALF SECTION HALF ELEVATION



PLAN
SHOWING REINFORCEMENT



DETAIL OF a a1 AND a2 BARS



END OF WING

BILL OF MATERIAL

Bars	Number	Size	Length
a			
a_1			
a_2			
b			
b_1			
b_2			
h			
h_1			
h_2			
h_3			
h_4			
h_5			
h_6			
h_7			
V			
V_1			
V_2			
V_3			
W			
W_1			
Z			
Class X concrete Cu. Yds.			
Reinforcing Steel Lbs.			

STANDARD		
	COMPUTED —	
	CHECKED —	
	DRAWN — J.C. Anderson	
	CHECKED —	
	ASSEMBLED —	

EXAMINED _____ 19 ____
BRIDGE ENGINEER
PASSED
ENGINEER OF DESIGN
APPROVED

SHOWING OUTLINES

Class X concrete shall be used throughout.
All reinforcing steel shall be wired securely in place before concrete is poured.

CDI
CIVIL DESIGN, INC.
WBE | DBE
EFFINGHAM, IL
LICENSE #184.003222

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

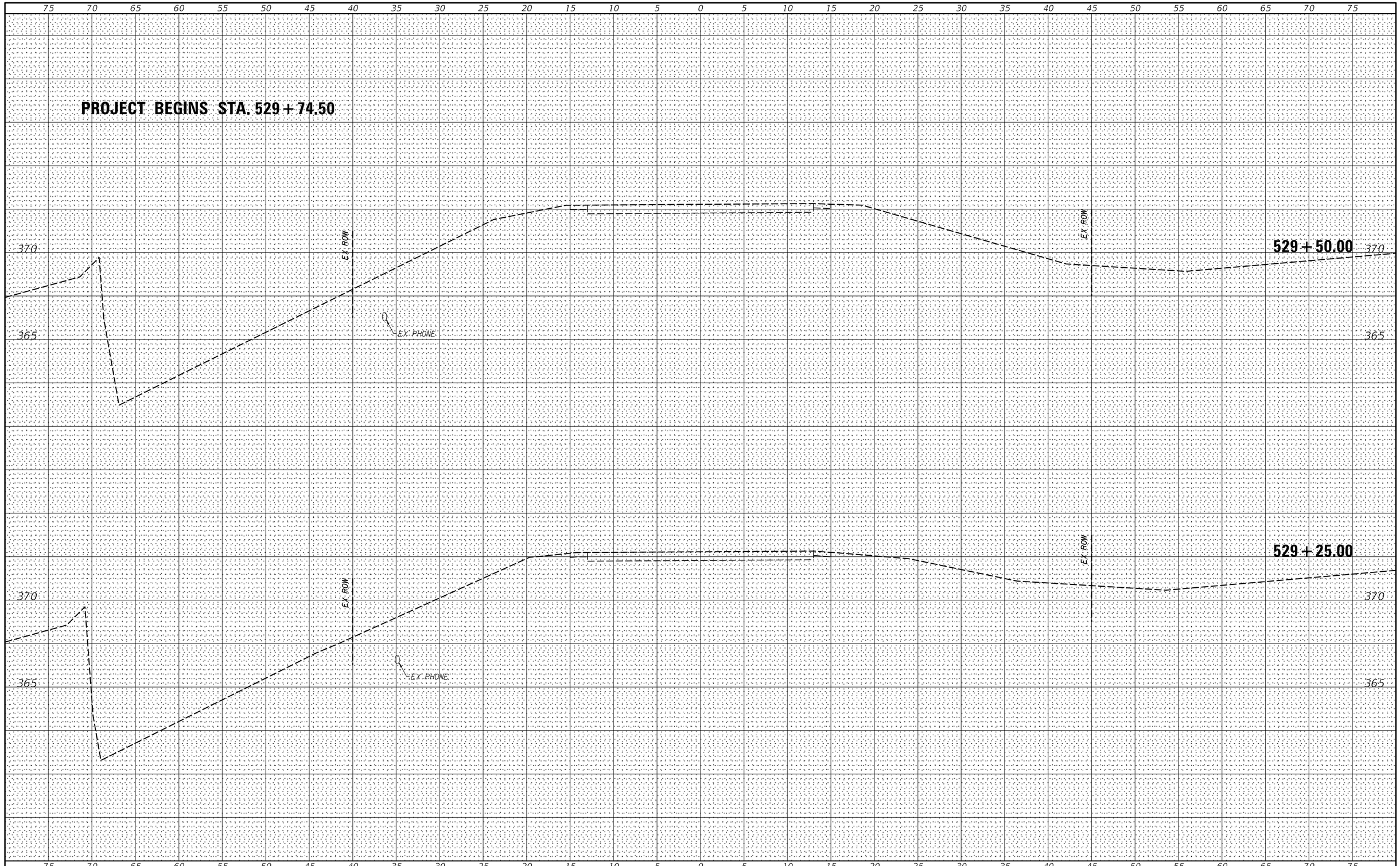
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING STRUCTURE PLANS - 2
STRUCTURE NO. 039-7126
SHEET NO. 12 OF 12 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
312	123B-5	JACKSON	101	28
		CONTRACT NO. 78790		
	ILLINOIS FED. AID PROJECT			

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

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



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

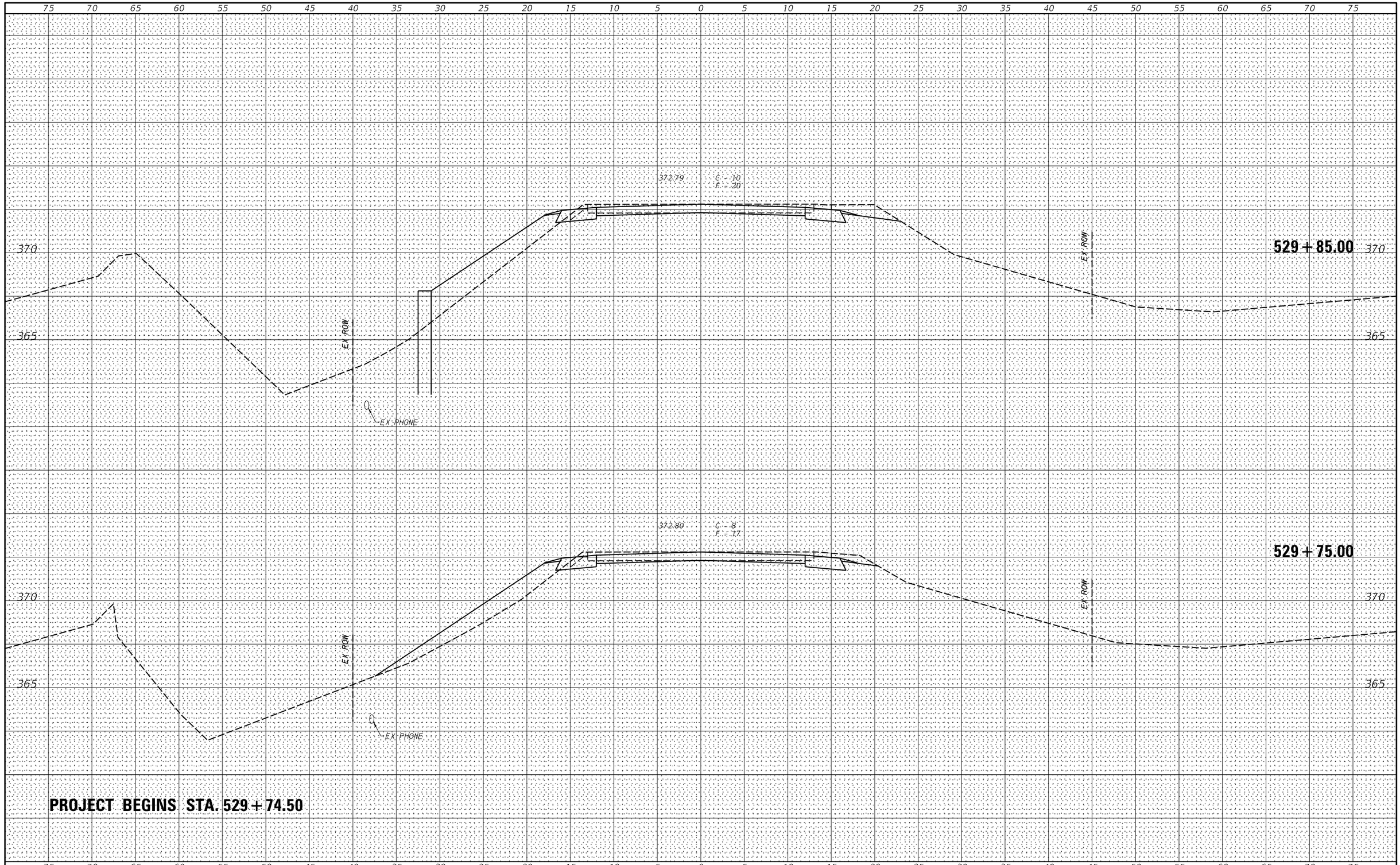
USER NAME = $USER$	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = $SCALE$	CHECKED -	REVISED -
PLOT DATE = $DATE$	DATE - -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS – SN 039–7126

SCALE: _____ | SHEET NO. 1 OF 4 SHEETS | STA. 529+25.00 TO STA. 529+50.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
312	123B-5	JACKSON	101	29
		CONTRACT NO. 78790		
FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		



FINAL SURVEY

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

ORIGINAL SURVEY

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

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

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

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

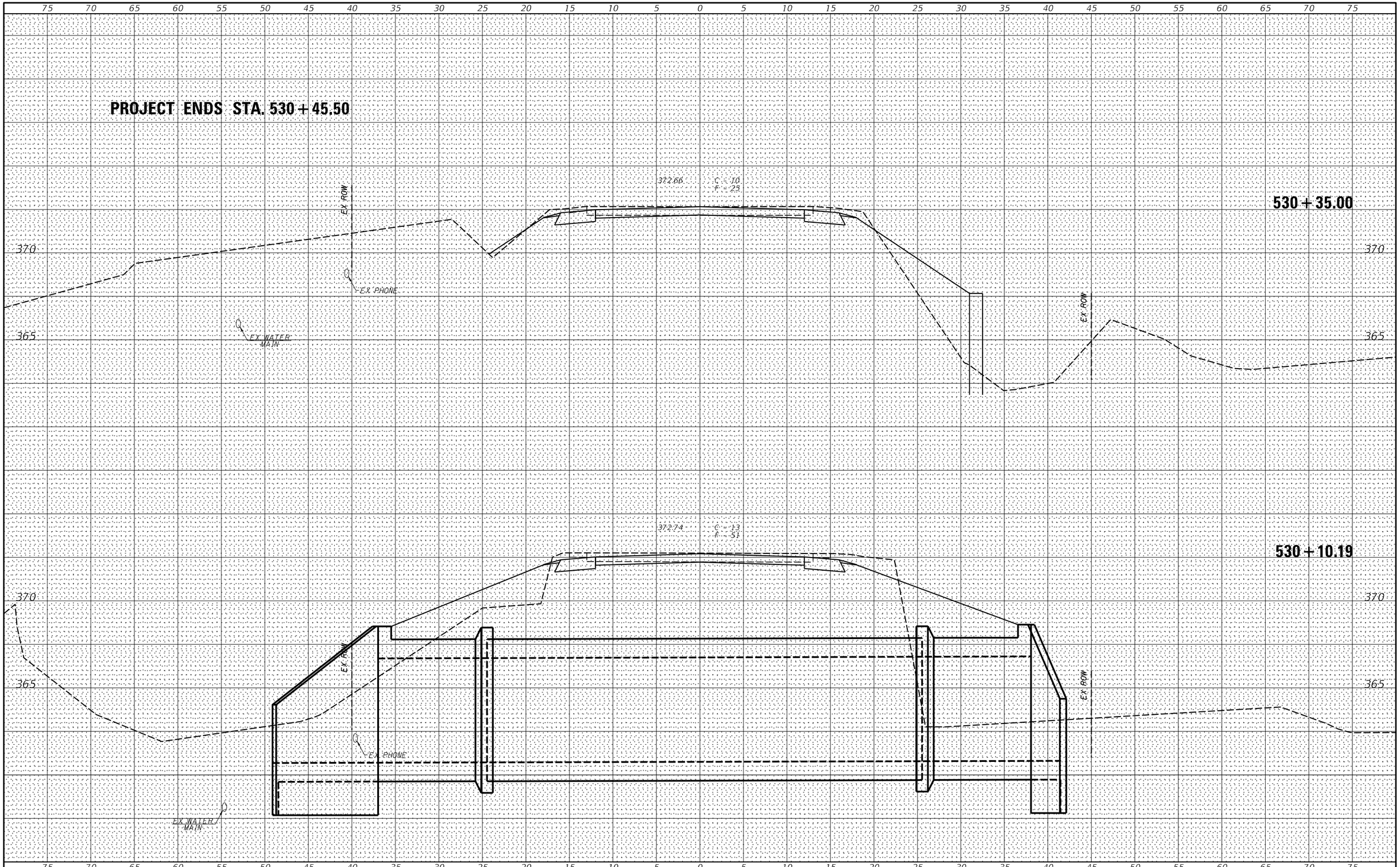
CROSS SECTIONS – SN 039–7126

SCALE: _____ | SHEET NO. 2 OF 4 SHEETS | STA. 529+75.00 TO STA. 529+85.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
312	123B-5	JACKSON	101	30
		CONTRACT NO. 78790		
FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		

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

PROJECT ENDS STA. 530 + 45.50



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

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

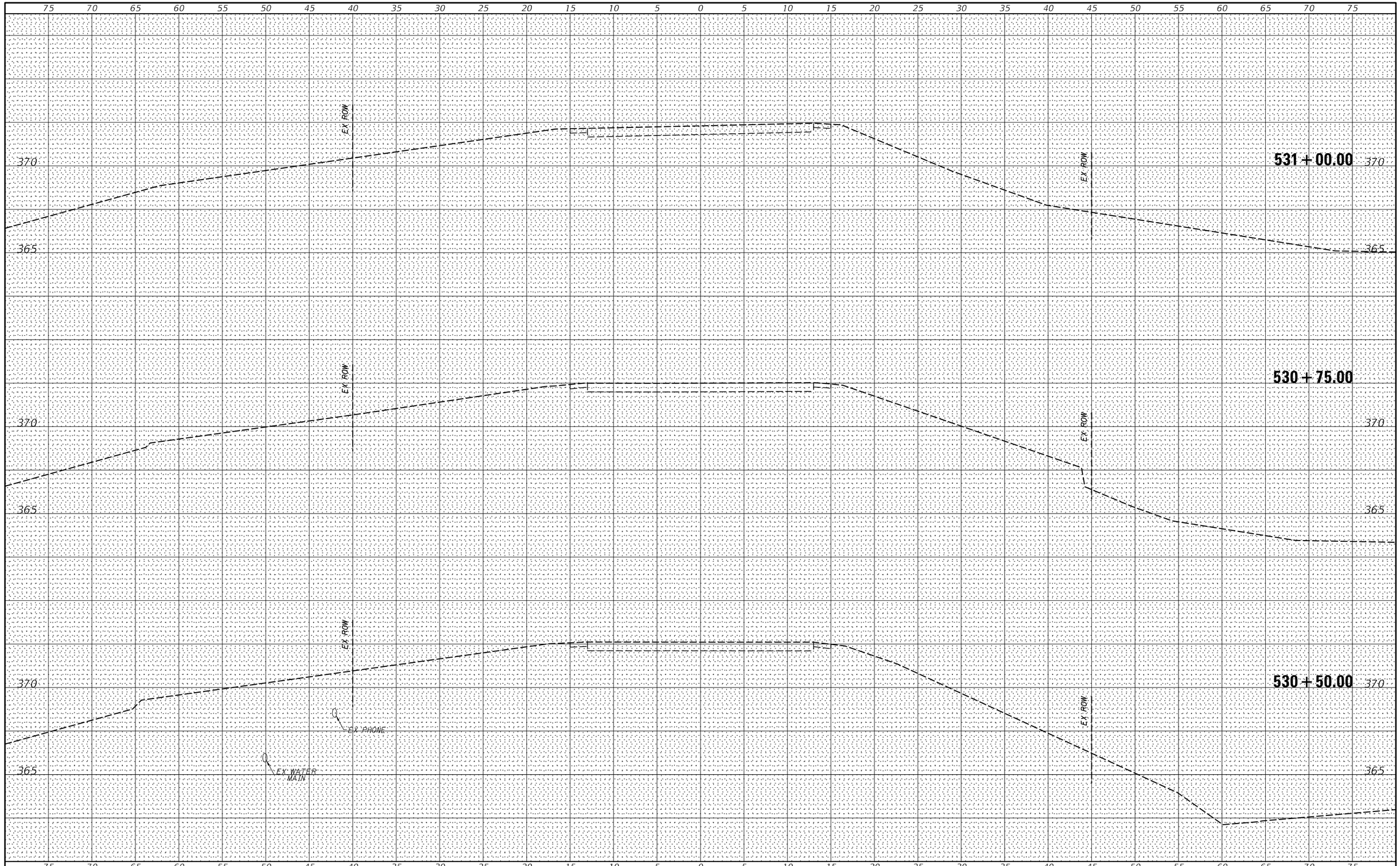
USER NAME = $USER$	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = $SCALE$	CHECKED -	REVISED -
PLOT DATE = $DATE$	DATE - -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS – SN 039–7126

SCALE: _____ | SHEET NO. 3 OF 4 SHEETS | STA. 530+10.19 TO STA. 530+35.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
312	123B-5	JACKSON	101	31
		CONTRACT NO. 78790		
FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		



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

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

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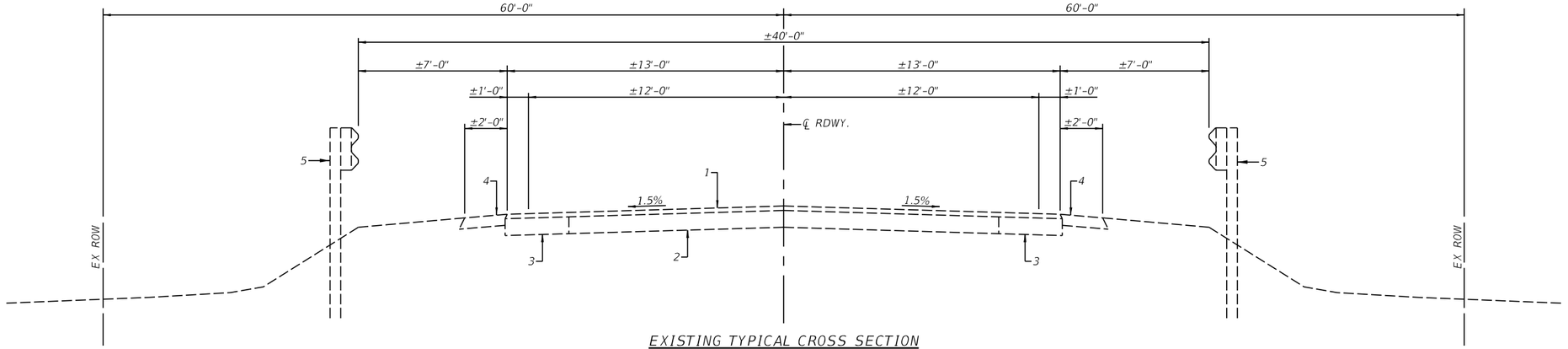
USER NAME = $USER$	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = $SCALE$	CHECKED -	REVISED -
PLOT DATE = $DATE$	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS – SN 039–7126

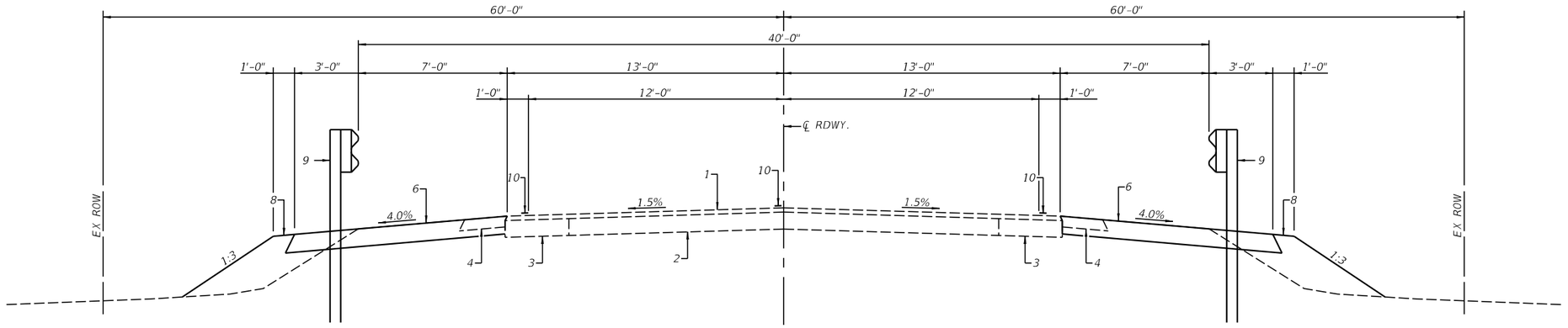
SCALE: _____ | SHEET NO. 4 OF 4 SHEETS | STA. 530+50.00 TO STA. 531+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
312	123B-5	JACKSON	101	32
		CONTRACT NO. 78790		
FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		



EXISTING TYPICAL CROSS SECTION

STA. 343+81 TO STA. 347+20



PROPOSED TYPICAL CROSS SECTION

STA. 343+81 TO STA. 345+07 &
STA. 345+76 TO STA. 347+20

PAVEMENT LEGEND

1 - EX HMA SURF CSE ±2½"
2 - EX PCC PAVEMENT ±9½"
3 - EX HMA BSE CSE WIDENING
4 - EX AGG SHOULDER
5 - EX GUARDRAIL
6 - PR HMA SHOULDER 10"
7 - PR PCC PAVEMENT 10" MIN.
8 - PR EARTH SHOULDER
9 - PR GUARDRAIL
10 - PR PAINT PAVEMENT MARKING - LINE 4"
11 - PR TEMP. PAVEMENT MARKING - LINE 4" - PAINT

MODEL: $MODELNAME$
FILE NAME: $FILE$

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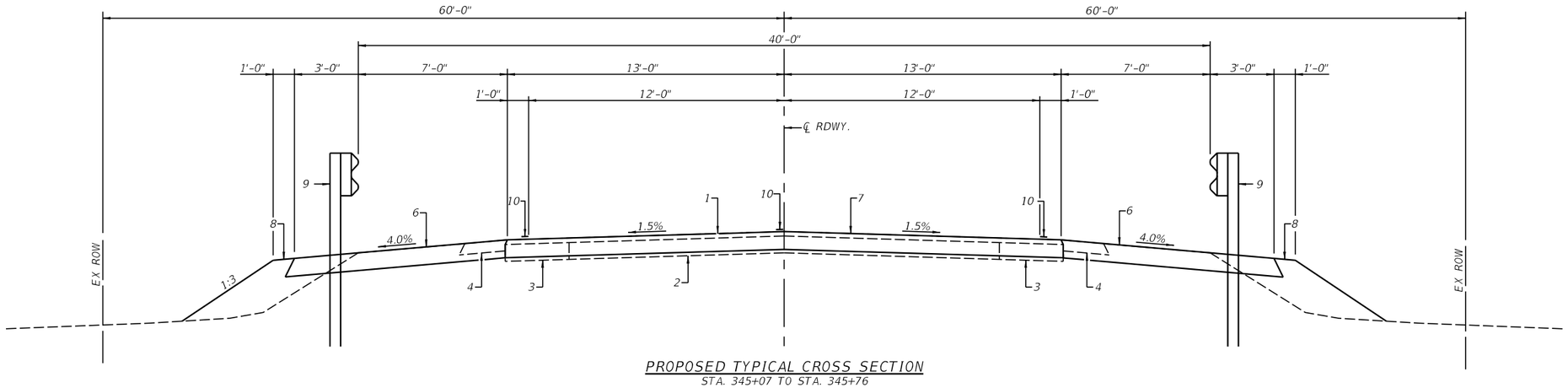
USER NAME = $USER$	DESIGNED - _____	REVISED - _____
	DRAWN - _____	REVISED - _____
PLOT SCALE = $SCALE$	CHECKED - _____	REVISED - _____
PLOT DATE = $DATE$	DATE - _____	REVISED - _____

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROADWAY TYPICAL SECTIONS

SCALE: _____ | SHEET __ OF __ SHEETS | STA. _____ | TO STA. _____

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
312	123B-6	JACKSON	101	33
		CONTRACT NO. 78790		
	ILLINOIS FED. AID PROJECT			



PROPOSED TYPICAL CROSS SECTION

STA. 345+07 TO STA. 345+76

PAVEMENT LEGEND

1 - EX HMA SURF CSE ±2½"
2 - EX PCC PAVEMENT ±9½"
3 - EX HMA BSE CSE WIDENING
4 - EX AGG SHOULDER
5 - EX GUARDRAIL
6 - PR HMA SHOULDER 10"
7 - PR PCC PAVEMENT 10" MIN.
8 - PR EARTH SHOULDER
9 - PR GUARDRAIL
10 - PR PAINT PAVEMENT MARKING - LINE 4"
11 - PR TEMP. PAVEMENT MARKING - LINE 4" - PAINT

MODEL: $MODELNAME$
FILE NAME: $FILE$

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

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROADWAY TYPICAL SECTIONS

SCALE: _____ | SHEET __ OF __ SHEETS | STA. _____ TO STA. _____

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
312	123B-6	JACKSON	101	34
		CONTRACT NO. 78790		
	ILLINOIS	FED. AID PROJECT		

EARTHWORK

LOCATION	EARTH EXCAVATION	ADJUSTED SHRINKAGE FACTOR	EARTH EXCAVATION (ADJUSTED)	EMBANKMENT	EARTHWORK BALANCE		FURNISHED EXCAVATION	REMARKS
					EXCAVATION REQUIRED TO COMPLETE	EXCESS EXCAVATION		
	CU. YD.	%	CU. YD.	CU. YD.	CU. YD.	CU. YD.	CU. YD.	
STA. 343+90 TO STA. 347+20	119	25	89	98	0	0	9	
TOTAL	119		89	98	0	0	9	

TEMPORARY CONCRETE BARRIER AND IMPACT ATTENUATORS

LOCATION	IMPACT ATTENUATORS, TEMPORARY (FULLY REDERECTIVE, NARROW), TEST LEVEL 3	TEMPORARY CONCRETE BARRIER	RELOCATE TEMPORARY CONCRETE BARRIER	IMPACT ATTENUATORS, RELOCATE (FULLY REDERECTIVE, NARROW) TEST LEVEL 3
	EACH	FOOT	FOOT	EACH
STA. 343+53.7 TO STA. 343+86.3 RT.	1			
STA. 343+86.3 TO STA. 346+98.2 (STAGE I)		312.5		
STA. 346+98.2 TO STA. 347+30.8 RT.	1			
STA. 343+53.7 TO STA. 343+86.5 LT.				1
STA. 343+86.5 TO STA. 346+99.0 (STAGE II)			312.5	
STA. 346+99.0 TO STA. 347+30.8 LT.				1
TOTAL	2	312.5	312.5	2

STEEL RAILING AND GUARDRAIL SCHEDULE

LOCATION	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	STEEL PLATE BEAM GUARDRAIL 6 FOOT POSTS	TRAFFIC BARRIER TERMINAL, TYPE 14	TERMINAL MARKER - DIRECT APPLIED	GUARDRAIL REMOVAL
	EACH	FOOT	EACH	EACH	FOOT
STA. 344+20.0 TO STA. 344+70.0 RT	1				
STA. 344+70.0 TO STA. 345+20.0 RT		50			
STA. 345+20.0 TO STA. 345+40.2 RT			1		
STA. 345+62.5 TO STA. 345+84.6 RT			1		
STA. 345+84.6 TO STA. 346+34.6 RT	1				
STA. 344+49.4 TO STA. 344+99.4 LT	1				
STA. 344+99.4 TO STA. 345+21.5 LT			1		
STA. 345+43.8 TO STA. 345+66.0 LT			1		
STA. 345+66.0 TO STA. 346+16.0 LT		50			
STA. 346+16.0 TO STA. 346+66.0 LT	1				
STA. 344+20.0 RT				1	
STA. 344+49.4 LT				1	
STA. 346+34.6 RT				1	
STA. 346+66.0 LT				1	
STA. 343+93.2 TO STA. 346+03.4 RT					216
STA. 344+81.4 TO STA. 346+96.4 LT					216
TOTAL	4	100	4	4	432

PERMANENT SEEDING

LOCATION	SEEDING CLASS 2A	NITROGEN FERTILIZER NUTRIENT	PHOSPHORUS FERTILIZER NUTRIENT	POTASSIUM FERTILIZER NUTRIENT	AGRICULTURAL GROUND LIMESTONE	MULCH METHOD 2
	ACRE	POUND	POUND	POUND	TON	ACRE
STA. 343+81 TO STA. 345+50 RT.	0.14	13	13	13	0.28	0.14
STA. 345+60 TO STA. 347+20 RT.	0.10	9	9	9	0.20	0.10
STA. 343+81 TO STA. 345+02 LT.	0.10	9	9	9	0.20	0.10
STA. 345+40 TO STA. 347+20 LT.	0.15	14	14	14	0.30	0.15
TOTAL	0.49	45	45	45	0.98	0.49
	USE 0.5 ACRE	USE 45 LBS.	USE 45 LBS.	USE 45 LBS.	USE 1 TON	USE 0.5 ACRE

PAVEMENT REMOVAL

LOCATION	PAVEMENT REMOVAL
	SQ. YD.
STA. 345+07.0 TO STA. 345+76.0	200
TOTAL	200

TEMPORARY EROSION CONTROL ITEMS

LOCATION	SEEDING, CLASS 7	TEMPORARY EROSION CONTROL SEEDING	PERIMETER EROSION BARRIER
	ACRE	POUND	FOOT
STA. 343+81 TO STA. 347+20 RT.	0.23	23	
STA. 343+81 TO STA. 347+20 LT.	0.27	27	
STA. 343+ 81 TO STA. 344+90 LT.			109
STA. 345+50 TO STA. 347+20 LT.			170
STA. 343+81 TO STA. 345+10 RT.			129
STA. 345+80 TO STA. 346+80 RT.			100
TOTAL	0.50	50	508
	USE 0.5 ACRE	USE 50 LBS.	

PAVEMENT MARKING REMOVAL - GRINDING

LOCATION	PAVEMENT MARKING REMOVAL - GRINDING
	SQ. FT.
EXISTING PAVEMENT MARKING	
STA. 342+84.0 TO STA. 348+44.5 RT.	164
STA. 341+52 TO STA. 349+05 CENTERLINE SKIP DASH	64
STA. 342+12.0 TO STA. 348+48.0 LT.	212
TOTAL	440

PINNING TEMPORARY CONCRETE BARRIER

LOCATION	PINNING TEMPORARY CONCRETE BARRIER
	EACH
STAGE I	
STA. 344+86.0 TO STA. 344+98.5	1
STA. 344+98.5 TO STA. 345+11.0	2
STA. 345+11.0 TO STA. 345+73.5	15
STA. 345+73.5 TO STA. 345+86.0	2
STA. 345+86.0 TO STA. 345+98.5	1
STAGE II	
STA. 252+17.0 TO STA. 252+29.5	1
STA. 252+29.5 TO STA. 252+42.0	2
STA. 252+42.0 TO STA. 253+04.5	15
STA. 253+04.5 TO STA. 253+17.0	2
STA. 253+17.0 TO STA. 253+29.5	1
TOTAL	42

REMOVE SIGN PANEL ASSEMBLY - TYPE B

LOCATION	REMOVE SIGN PANEL ASSEMBLY
	EACH
STA. 344+70.5 23.6' RT (BRIDGE WEIGHT LIMIT)	1
STA. 346+56.5 23.4' LT (BRIDGE WEIGHT LIMIT)	1
TOTAL	2

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

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

QUANTITY SCHEDULES

SCALE:_____ | SHEET NO. _ OF _ SHEETS | STA. _____ TO STA. _____

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
312	123B-6	JACKSON	101	35
		CONTRACT NO. 78790		
	ILLINOIS	FED. AID PROJECT		

70107025 CHANGEABLE MESSAGE SIGN	
LOCATION	CHANGEABLE MESSAGE SIGN
	CAL. DAY
MESSAGE BOARD SOUTHEAST OF IL 3/151 INTERSECTION (QUANTITY INCLUDED WITH SN 039-2035)	
MESSAGE BOARD NORTHWEST OF IL 3 AND RADDLE ROAD INTERSECTION	90
TOTAL	90

PAINT PAVEMENT MARKING SCHEDULE		
LOCATION	PAINT PAVEMENT MARKING - LINE 4"	
	30' SKIP 10' DASH (YELLOW)	EDGE LINE (WHITE)
	FOOT	FOOT
STA. 342+12 TO STA. 348+48 LT.		636
STA. 341+52 TO STA. 349+05 CL.	190	
STA. 342+84 TO STA. 348+45 RT.		561
SUBTOTAL	190	1197
TOTAL	1387	

TEMPORARY RUMBLE STRIPS	
LOCATION	TEMPORARY RUMBLE STRIPS
	EACH
STA. 324+52 RT.	1
STA. 329+52 RT.	1
STA. 334+52 RT.	1
STA. 356+05 LT.	1
STA. 361+05 LT.	1
STA. 366+05 LT.	1
TOTAL	6

TEMPORARY BRIDGE TRAFFIC SIGNALS	
LOCATION	TEMPORARY BRIDGE TRAFFIC SIGNALS
	EACH
STA. 342+02 17.6' RT.	0.25
STA. 342+27 19.6' LT.	0.25
STA. 348+30 17.8' RT.	0.25
STA. 348+55 17.0' LT.	0.25
TOTAL	1

HOT-MIX ASPHALT SHOULDERS 10" & BITUMINOUS MATERIALS (TACK COAT)		
LOCATION	HOT-MIX ASPHALT SHOULDERS 10"	BITUMINOUS MAT'LS. (TACK COAT)*
	SQ. YD.	POUND
STAGE I		
STA. 343+81 TO STA. 347+20 RT. (7'-0" WIDTH)	257	116
STAGE II		
STA. 343+81 TO STA. 347+20 LT.	356	161
STA. 343+81 TO STA. 347+20 RT. (3'-0" WIDTH)	99	45
TOTAL	712	322

* ASSUMED TWO APPLICATIONS

PORTLAND CEMENT CONCRETE SCHEDULE		
LOCATION	PORTLAND CEMENT CONCRETE PAVEMENT 10"	WELDED WIRE REINFORCEMENT
	SQ. YD.	SQ. YD.
STA. 345+07 TO STA. 345+76	200	200
TOTAL	200	200

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

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

QUANTITY SCHEDULES

SCALE:_____ | SHEET NO. _ OF _ SHEETS | STA. _____ TO STA. _____

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
312	123B-6	JACKSON	101	36
			CONTRACT NO. 78790	
	ILLINOIS	FED. AID PROJECT		

SECTION 29 T. 8 S., R. 4 W., 3rd PM

ROGER E. REES
07-29-100-017

ROGER E. REES
07-29-100-017

℄ STA. 345+42
REINFORCED CONCRETE BOX CULVERT
DOUBLE 9' x 8' x 47'-5½", 25° SKEW RT. FWD.

FLOW
DRAINAGE DITCH

PROJECT ENDS
STA. 347+20

EX 12"○ x 34'
CMP (TO REMAIN)

EX ROW

CONST LIM

60'

60'

339 | 340+00 | 341 | 342 | 343 | 344 | 345 | 346 | 347 | 348 | 349 | 350+00 | 351 | 352 | 353

PROJECT BEGINS
STA. 343+81

CONST LIM

EX 15"○ x 158'
CMP (TO REMAIN)

EX ROW

ROGER E. REES
07-29-100-017

MATTHEW R. &
CALLIE J. MAYBERRY
07-29-100-007

PLAN
0 50 100
SCALE: 1" = 50'

PLAN
SURVEYED
PLOTTED
CHANGES CHECKED
R/T. OF WAY CHECKED
CADD FILE NAME
NOTE BOOK
NO.
BY
DATE

PROFILE
SURVEYED
PLOTTED
CHANGES CHECKED
BM. NOTED
STRUCTURE NO(A)T'NS CHK'D
NOTE BOOK
NO.
BY
DATE

410 405 400 395 390 385 380 375 370

℄ EX RDWY

+0.0145%

BEGIN NEW PCC PAVEMENT
STA. 345+07 - EL. 386.62

END NEW PCC PAVEMENT
STA. 345+76 - 386.63

US INV. EL. 375.85
DS INV. EL. 375.45

PROFILE

383.30 | 383.51 | 383.65 | 383.93 | 384.19 | 384.50 | 384.77 | 385.16 | 385.57 | 386.02 | 386.30 | 386.44 | 386.60 | 386.69 | 386.62 | 386.56 | 386.43 | 386.25 | 386.07 | 385.72 | 385.50 | 385.20 | 385.08 | 385.06 | 385.18 | 385.41 | 385.75 | 385.97 | 386.71 | 387.18 | 387.59

339+00 340+00 341+00 342+00 343+00 344+00 345+00 346+00 347+00 348+00 349+00 350+00 351+00 352+00 353+00

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

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

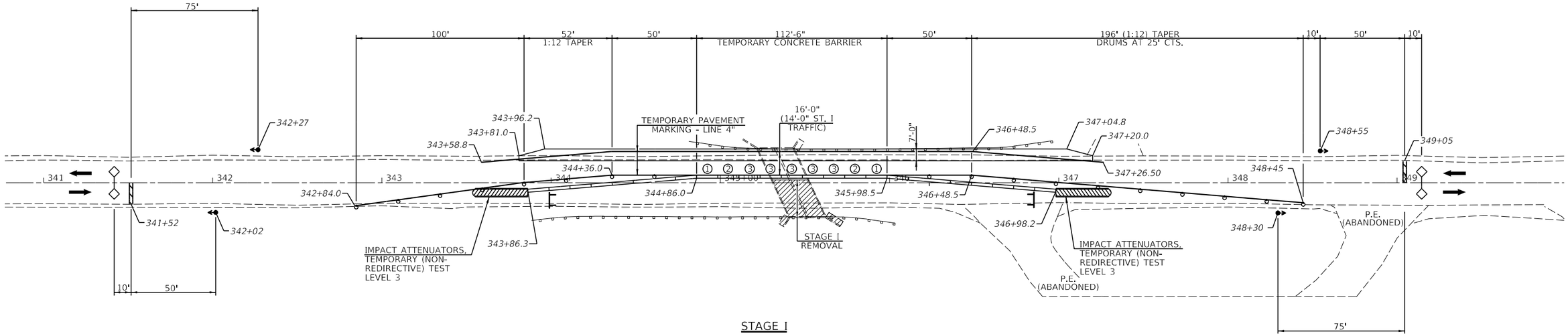
PLAN & PROFILE – SN 039-2034

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
312	123B-6	JACKSON	101	37
		CONTRACT NO. 78790		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

GENERAL NOTES

1. TRAFFIC CONTROL SHALL BE ERECTED AS SHOWN ACCORDING TO "TRAFFIC CONTROL & PROTECTION, STANDARD 701321.
2. SEE SPECIAL PROVISIONS FOR ADDITIONAL TRAFFIC CONTROL REQUIREMENTS.
3. COORDINATE LOCATION OF SIGNALS WITH FINAL WORK AS DIRECTED BY THE ENGINEER.
4. ADDITIONAL SIGNAGE FOR ENTRANCES AND ADVANCE WIDTH RESTRICTION WARNING SHALL BE INCLUDED IN THE COST OF STANDARD 701321.
5. THE DIMENSION SHOWN ON THE WIDTH RESTRICTION SIGN (W12-I10210-48) SHOWN ON STANDARD 701321 AND ON THE ADVANCE WARNING SIGN (W12-I103) SHOWN ON THE STAGE 2 PLAN SHEET FOR THIS STRUCTURE SHALL BE 14'-0" FOR STAGE 1 CONSTRUCTION.
6. SEE STD 701321 FOR COMPLETION OF STAGE CONSTRUCTION SIGNING AND ADVANCE DETECTOR LOOP PLACEMENT NOT SHOWN.
7. THE ADVANCE DETECTOR LOOPS ARE TYPICALLY LOCATED 275 FEET IN ADVANCE OF THE STOP BAR. THE BUREAU OF OPERATIONS SHALL APPROVE THE LOOP LOCATIONS PRIOR TO INSTALLATION.
8. THE CENTERLINE PAVEMENT MARKING SHALL BE REMOVED FROM THE STOP BAR TO THE SAND ATTENUATORS OR DRUMS. EDGE LINE PAVEMENT MARKING SHALL BE REMOVED IF A 10 FOOT LANE WIDTH CANNOT BE MAINTAINED. TEMPORARY EDGE LINES SHALL BE INSTALLED WHEN THE EDGE LINES ARE REMOVED.
9. VERTICAL PANELS SHOWN ON STANDARD 701321 WILL NOT BE REQUIRED ON THE STAGE 2 NEW CO-10 RAIL. THE BARRIER WALL REFLECTORS SHALL BE INSTALLED PRIOR TO OPENING TO TRAFFIC.
10. ANY TIME THE CONCRETE BARRIER IS NOT IN THE PROPER POSITION, FLAGGERS SHALL BE IN PLACE TO CONTROL TRAFFIC AND THE TEMPORARY TRAFFIC SIGNALS SHALL BE TURNED OFF OR COVERED.
11. ALL TRAFFIC SIGNALS SHOWN ARE INCLUDED IN TEMPORARY BRIDGE TRAFFIC SIGNALS - 1 EACH.
12. TEMPORARY PAVEMENT MARKING SHOWN ON THE DETAIL, THE COST OF THE TEMPROARY PAVEMENT MARKING AND ITS REMOVAL WILL BE INCLUDED IN THE COST OF STANDARD 701321.



STAGE I

① - *INDICATES NUMBER OF PINS REQUIRED FOR EACH SECTION - 21 PINS REQUIRED FOR STAGE I*

LEGEND

- REMOVAL ITEMS
- SIGN
- TYPE III BARRICADE
- DRUM WITH STEADY BURNING LIGHT
- BARRICADE WITH STEADY BURNING LIGHT
- TRAFFIC SIGNAL
- INDUCTION LOOP DETECTOR
- DOUBLE VERTICAL PANEL
- TYPE C BIDIRECTIONAL REFLECTOR
- TEMPORARY CONCRETE BARRIER
- IMPACT ATTENUATOR
- STEADY BURNING LIGHTS AND DOUBLE VERTICAL PANELS

PLAN

0 30 60

SCALE: 1" = 30'

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

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

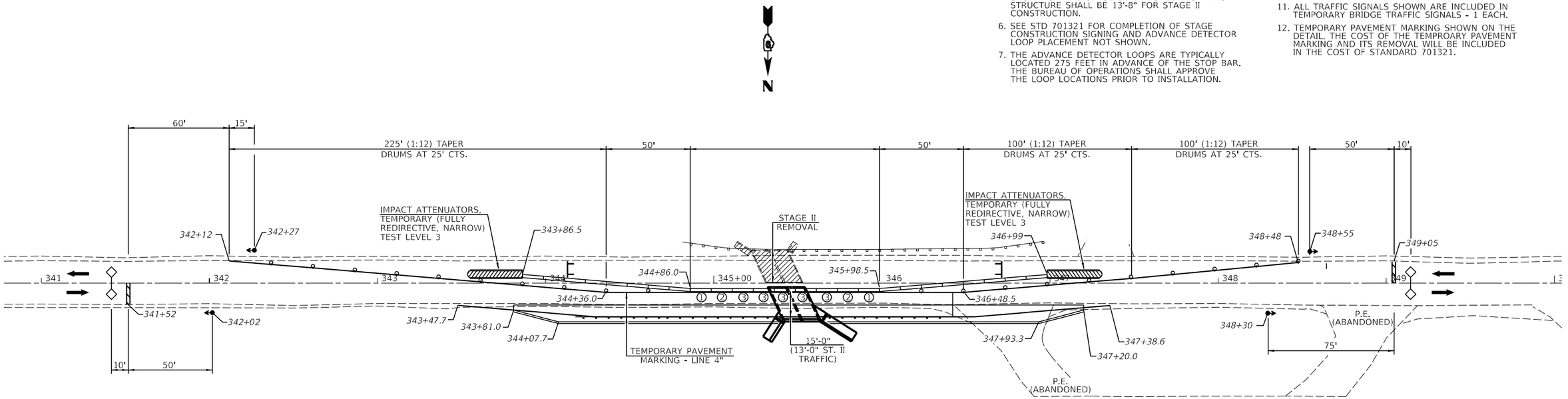
STAGE I CONSTRUCTION PLAN

SCALE: 1"=30 | SHEET NO. 1 OF 2 SHEETS | STA. _____ TO STA. _____

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
312	123B-6	JACKSON	101	38
		CONTRACT NO. 78790		
	ILLINOIS	FED. AID PROJECT		

GENERAL NOTES

1. TRAFFIC CONTROL SHALL BE ERECTED AS SHOWN ACCORDING TO "TRAFFIC CONTROL & PROTECTION, STANDARD 701321.
2. SEE SPECIAL PROVISIONS FOR ADDITIONAL TRAFFIC CONTROL REQUIREMENTS.
3. COORDINATE LOCATION OF SIGNALS WITH FINAL WORK AS DIRECTED BY THE ENGINEER.
4. ADDITIONAL SIGNAGE FOR ENTRANCES AND ADVANCE WIDTH RESTRICTION WARNING SHALL BE INCLUDED IN THE COST OF STANDARD 701321.
5. THE DIMENSION SHOWN ON THE WIDTH RESTRICTION SIGN (W12-I10210)-48) SHOWN ON STANDARD 701321 AND ON THE ADVANCE WARNING SIGN (W12-I103) SHOWN ON THE STAGE 2 PLAN SHEET FOR THIS STRUCTURE SHALL BE 13'-8" FOR STAGE II CONSTRUCTION.
6. SEE STD 701321 FOR COMPLETION OF STAGE CONSTRUCTION SIGNING AND ADVANCE DETECTOR LOOP PLACEMENT NOT SHOWN.
7. THE ADVANCE DETECTOR LOOPS ARE TYPICALLY LOCATED 275 FEET IN ADVANCE OF THE STOP BAR. THE BUREAU OF OPERATIONS SHALL APPROVE THE LOOP LOCATIONS PRIOR TO INSTALLATION.
8. THE CENTERLINE PAVEMENT MARKING SHALL BE REMOVED FROM THE STOP BAR TO THE SAND ATTENUATORS OR DRUMS. EDGE LINE PAVEMENT MARKING SHALL BE REMOVED IF A 10 FOOT LANE WIDTH CANNOT BE MAINTAINED. TEMPORARY EDGE LINES SHALL BE INSTALLED WHEN THE EDGE LINES ARE REMOVED.
9. VERTICAL PANELS SHOWN ON STANDARD 701321 WILL NOT BE REQUIRED ON THE STAGE 2 NEW CO-10 RAIL. THE BARRIER WALL REFLECTORS SHALL BE INSTALLED PRIOR TO OPENING TO TRAFFIC.
10. ANY TIME THE CONCRETE BARRIER IS NOT IN THE PROPER POSITION, FLAGGERS SHALL BE IN PLACE TO CONTROL TRAFFIC AND THE TEMPORARY TRAFFIC SIGNALS SHALL BE TURNED OFF OR COVERED.
11. ALL TRAFFIC SIGNALS SHOWN ARE INCLUDED IN TEMPORARY BRIDGE TRAFFIC SIGNALS - 1 EACH.
12. TEMPORARY PAVEMENT MARKING SHOWN ON THE DETAIL, THE COST OF THE TEMPROARY PAVEMENT MARKING AND ITS REMOVAL WILL BE INCLUDED IN THE COST OF STANDARD 701321.



STAGE II

① - *INDICATES NUMBER OF PINS REQUIRED FOR EACH SECTION - 21 PINS REQUIRED FOR STAGE I*

LEGEND

- REMOVAL ITEMS
- SIGN
- TYPE III BARRICADE
- DRUM WITH STEADY BURNING LIGHT
- BARRICADE WITH STEADY BURNING LIGHT
- TRAFFIC SIGNAL
- INDUCTION LOOP DETECTOR
- DOUBLE VERTICAL PANEL
- TYPE C BIDIRECTIONAL REFLECTOR
- TEMPORARY CONCRETE BARRIER
- IMPACT ATTENUATOR
- STEADY BURNING LIGHTS AND DOUBLE VERTICAL PANELS

PLAN

0 30 60

SCALE: 1" = 30'

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

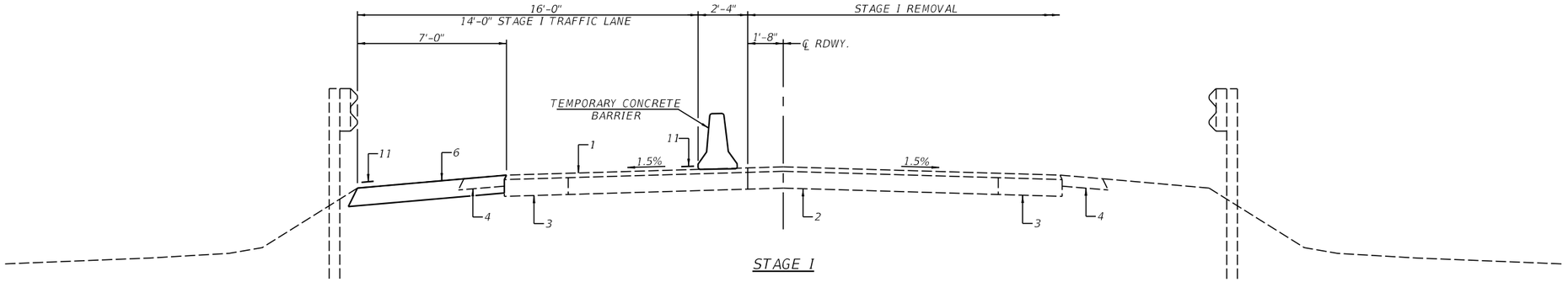
USER NAME = ___	DESIGNED - ___	REVISED - ___
	CHECKED - ___	REVISED - ___
PLOT SCALE = ___	DRAWN - ___	REVISED - ___
PLOT DATE = ___	CHECKED - ___	REVISED - ___

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

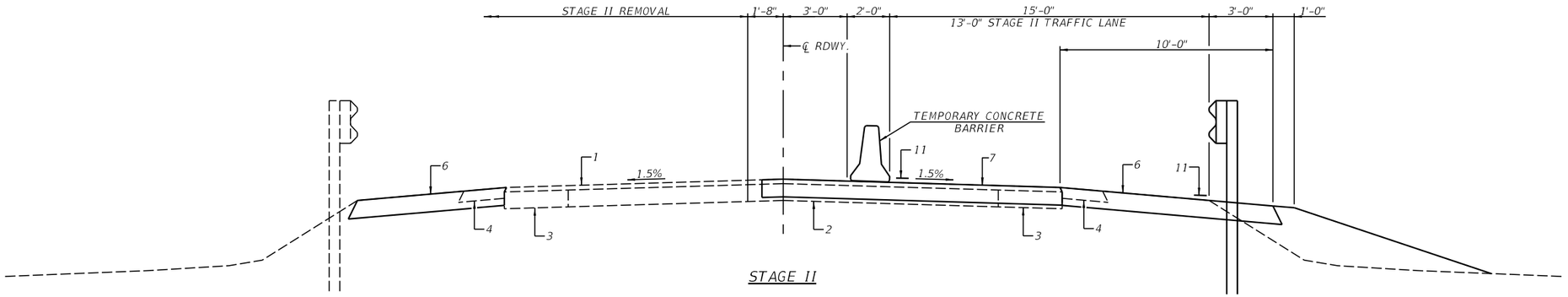
STAGE II CONSTRUCTION PLAN

SCALE: 1"=30' | SHEET NO. 2 OF 2 SHEETS | STA. _____ TO STA. _____

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
312	123B-6	JACKSON	101	39
		CONTRACT NO. 78790		
		ILLINOIS	FED. AID PROJECT	



STAGE I



STAGE II

PAVEMENT LEGEND

1 - EX HMA SURF CSE ±2½"
2 - EX PCC PAVEMENT ±9½"
3 - EX HMA BSE CSE WIDENING
4 - EX AGG SHOULDER
5 - EX GUARDRAIL
6 - PR HMA SHOULDER 10"
7 - PR PCC PAVEMENT 10" MIN.
8 - PR EARTH SHOULDER
9 - PR GUARDRAIL
10 - PR PAVEMENT MARKING - LINE 4"
11 - PR TEMP. PAVEMENT MARKING - LINE 4" - PAINT

MODEL: $MODELNAME$
FILE NAME: $FILE$

Veenstra & Kimm, Inc.
Springfield, IL. Phone: (217)544-8033

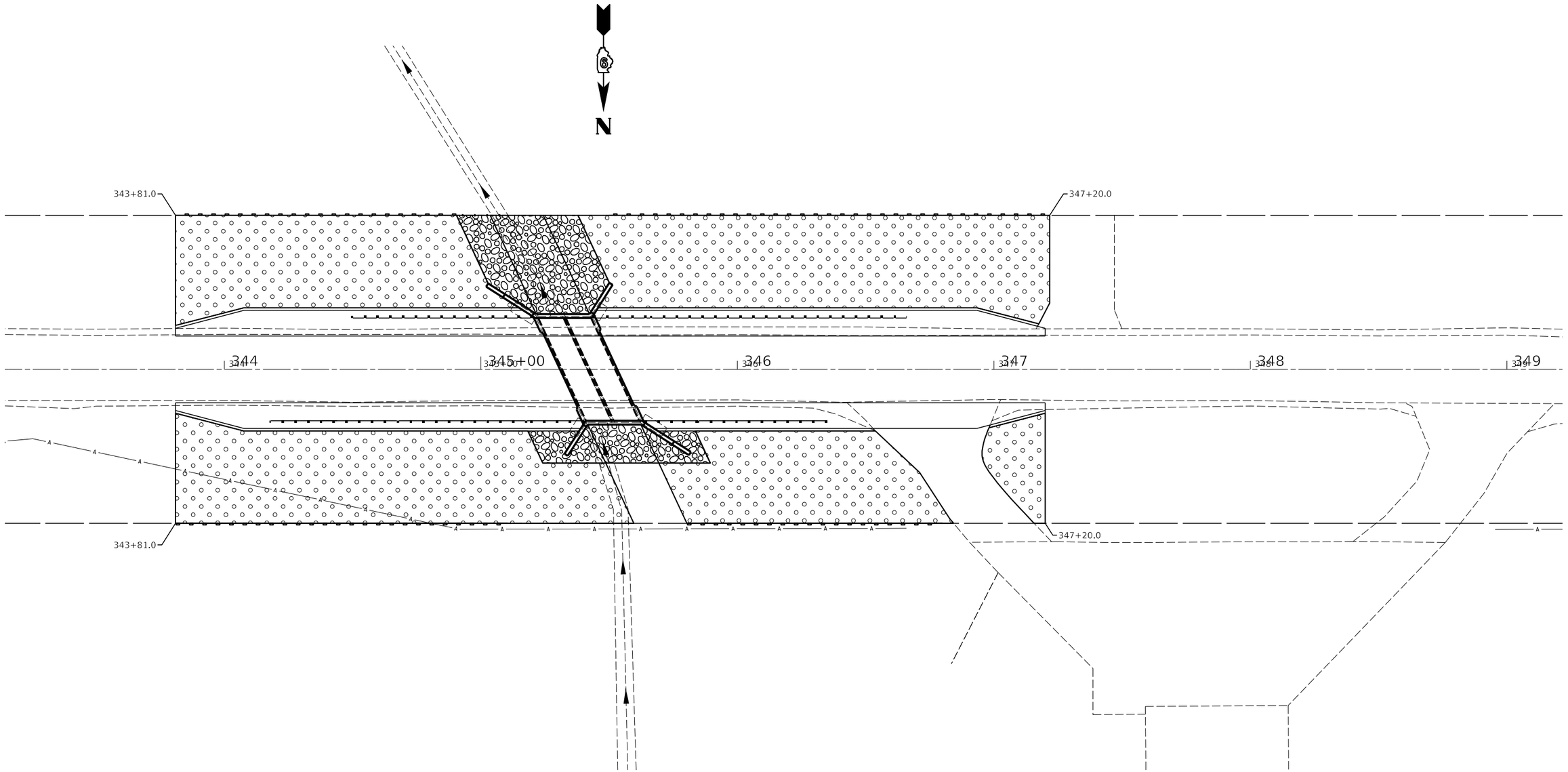
USER NAME = $USER$	DESIGNED - _____	REVISED - _____
	DRAWN - _____	REVISED - _____
PLOT SCALE = $SCALE$	CHECKED - _____	REVISED - _____
PLOT DATE = $DATE$	DATE - _____	REVISED - _____

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STAGING TYPICAL SECTIONS

SCALE: _____ | SHEET __ OF __ SHEETS | STA. _____ | TO STA. _____

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
312	123B-6	JACKSON	101	40
		CONTRACT NO. 78790		
		ILLINOIS	FED. AID PROJECT	



PLAN

0 20 40

SCALE: 1" = 20'

LEGEND

- SEEDING, CLASS 2A & 7
- PERIMETER EROSION BARRIER
- TEMPORARY DITCH CHECK
- INLET PIPE PROTECTION
- TEMPORARY CONSTRUCTION FENCE

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

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

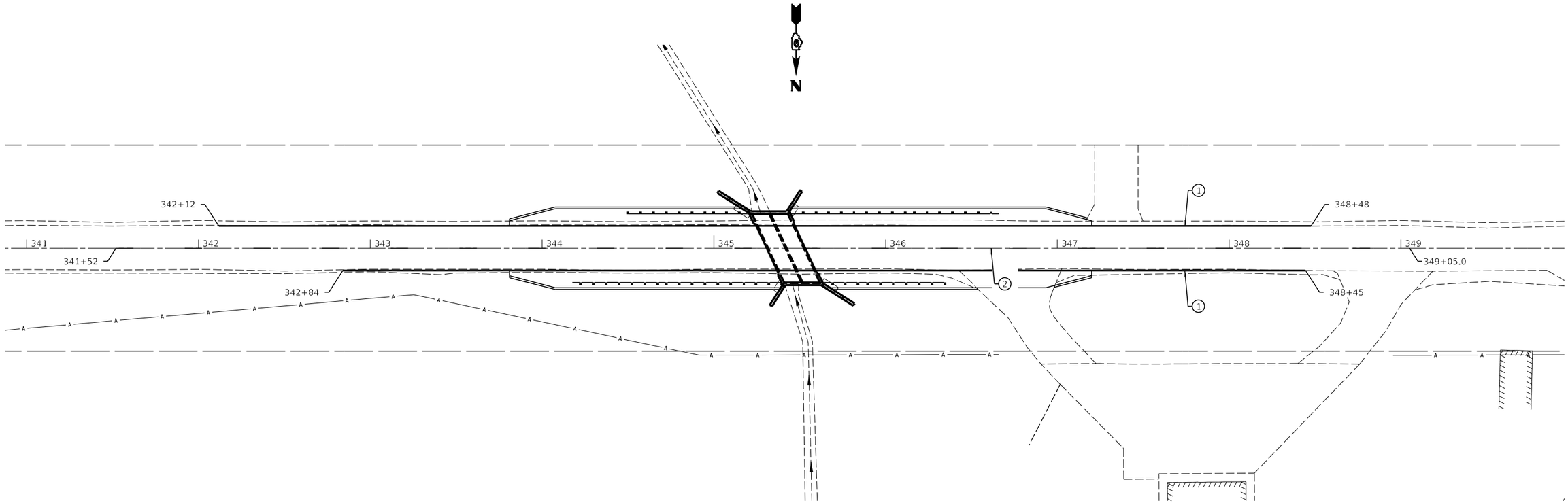
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EROSION CONTROL PLAN

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
312	123B-6	JACKSON	101	41
		CONTRACT NO. 78790		
		ILLINOIS	FED. AID PROJECT	

LEGEND
① - PAINT PAVEMENT MARKING - LINE 4" (WHITE)
② - PAINT PAVEMENT MARKING - LINE 4" (YELLOW SKIP DASH)



PLAN

0 20 40

SCALE: 1" = 20'

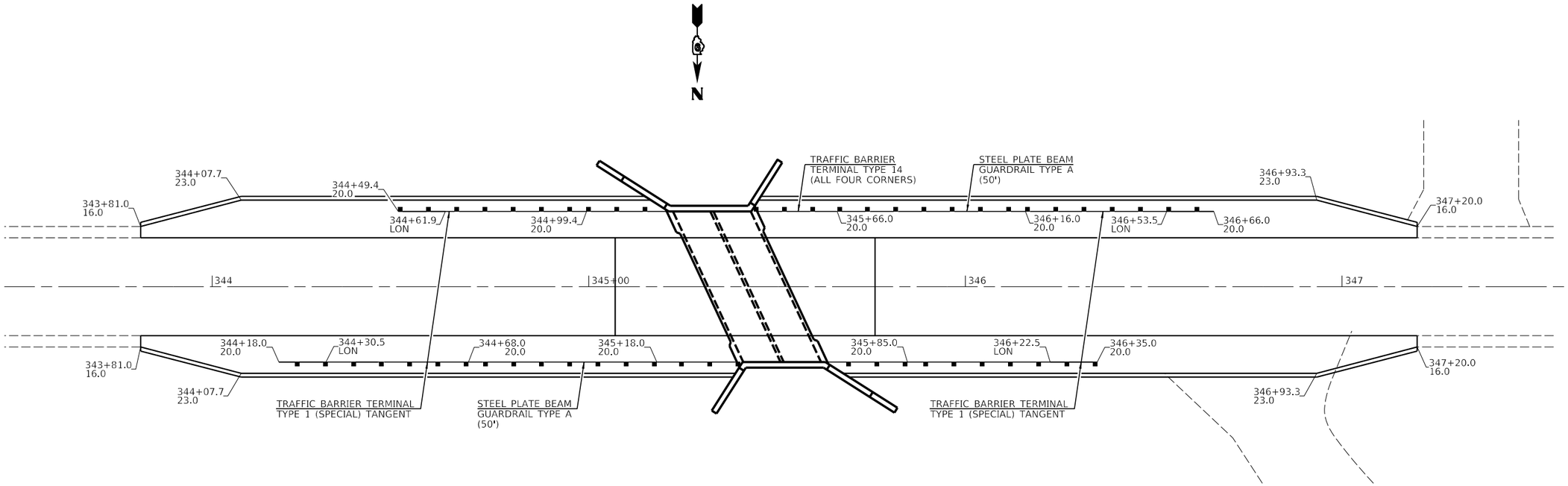
VEENSTRA & KIMM INC.	USER NAME = ___	DESIGNED - ___	REVISED - ___
Springfield, IL. Phone: (217)544-8033		CHECKED - ___	REVISED - ___
IL. Design Firm No. 184-001939	PLOT SCALE = ___	DRAWN - ___	REVISED - ___
	PLOT DATE = ___	CHECKED - ___	REVISED - ___

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING PLAN

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
312	123B-6	JACKSON	101	42
		CONTRACT NO. 78790		
	ILLINOIS FED. AID PROJECT			



PLAN

0 15 30

SCALE: 1" = 15'

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

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

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GUARDRAIL PLAN

SCALE: 1"=15' | SHEET NO. 1 OF 1 SHEETS | STA. _____ TO STA. _____

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
312	123B-6	JACKSON	101	43
		CONTRACT NO. 78790		
	ILLINOIS FED. AID PROJECT			

B.M. 1004 Top of exposed rebar on the southeast corner of headwall on Structure No. 039-2014 along IL Route 3. Elev. 385.758

Existing Structure: S.N. 039-2014 originally built under SBI Route 150 under Section 123 in 1933. The structure is a double barrel reinforced box culvert (9'-0"W x 7'-0"H) 41'-4" out-out of headwalls, 45'-7¼" along centerline of culvert. 25° skew Rt. Fwd. The structure will be replaced utilizing stage construction. ℄ Structure Sta. 345+42.

No Salvage.

Precast option is not allowed.

INDEX OF SHEETS

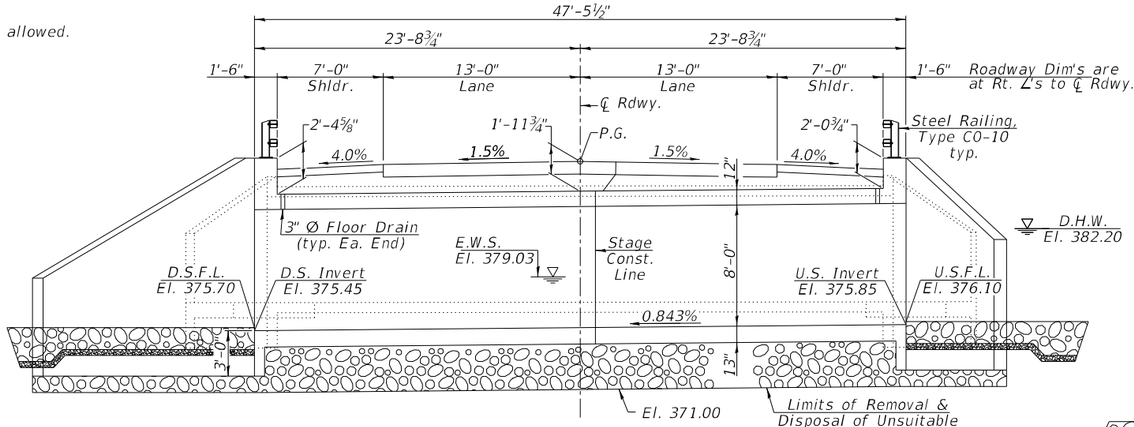
WATERWAY INFORMATION

Drainage Area = 0.8 Sq. Mi.

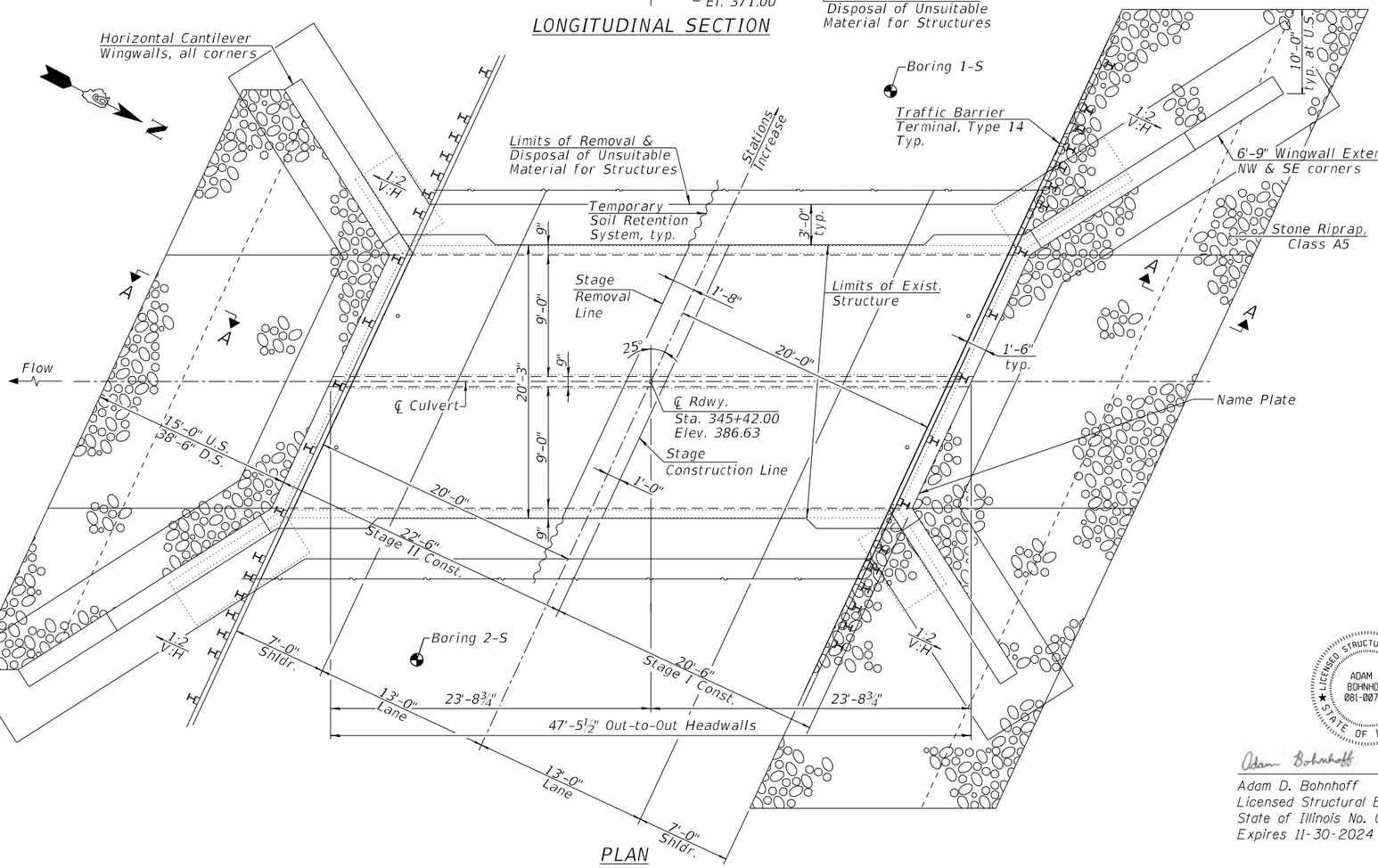
Exist. Overtopping Elev. = 386.8 @ Sta. 345+50
Prop. Overtopping Elev. = 386.8 @ Sta. 345+50

Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft. Exist.	Opening Sq. Ft. Prop.	Nat. H.W.E.	Head - Ft. Exist.	Head - Ft. Prop.	Headwater El. Exist.	Headwater El. Prop.
	10	671	75	103	381.8	2.3	1.0	384.1	382.8
Design	50	1,140	83	110	382.2	2.9	2.5	385.1	384.7
Base	100	1,360	83	110	382.2	3.2	2.9	385.4	385.1
Overtop Exist.	N/A								
Overtop Prop.	N/A								
Max. Calc.	500	1,910	88	115	382.5	3.3	3.2	385.8	385.7

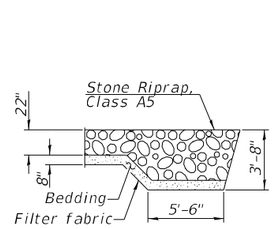
10 Yr. Outlet Velocity through Exist. Structure = 8.9 ft/s
10 Yr. Outlet Velocity through Prop. Structure = 6.5 ft/s



LONGITUDINAL SECTION



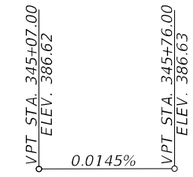
PLAN



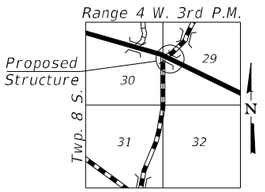
SECTION A-A

STATION 345+42.00
BUILT 20 BY
STATE OF ILLINOIS
F.A.P. RTE. 312 SEC. 123B-6
LOADING HL-93
STR. NO. 039-2034

NAME PLATE
(Std. 515001)



PROFILE GRADE
(Along ℄ IL Rte. 3)



LOCATION SKETCH

LOADING HL-93

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

DESIGN SPECIFICATIONS

2020 AASHTO LRFD Bridge Design Specifications, 9th Edition

APPROVED
For Structural Adequacy Only
Engineer of Bridges & Structures

DESIGN STRESSES

FIELD UNITS
f'c = 3,500 psi
f'c = 4,500 psi (Top Slab & Headwalls)
fy = 60,000 psi (Reinforcement)

LICENSED STRUCTURAL ENGINEER
ADAM D. BOHNHOFF
081-007431
STATE OF ILLINOIS

Adam Bohnhoff 03/13/2023
Adam D. Bohnhoff — Date
Licensed Structural Engineer
State of Illinois No. 081-007431
Expires 11-30-2024

GENERAL PLAN & ELEVATION
IL. ROUTE 3 OVER DRAINAGE DITCH
F.A.P. RTE 312 - SECTION 123B-6
JACKSON COUNTY
STATION 345+42.00
STRUCTURE NO. 039-2034

CDI — CIVIL DESIGN, INC. WBE | DBE — EFFINGHAM, IL — LICENSE #184.003222

USER NAME = ___	DESIGNED - JAG	REVISED - ___
	CHECKED - ADB	REVISED - ___
PLOT SCALE = ___	DRAWN - JAG	REVISED - ___
PLOT DATE = ___	CHECKED - ADB	REVISED - ___

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL PLAN & ELEVATION
STRUCTURE NO. 039-2034
SHEET NO. 1 OF 12 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
312	123B-6	JACKSON	101	44
		CONTRACT NO. 78790		
	ILLINOIS FED. AID PROJECT			

GENERAL NOTES

Reinforcement bars designated (E) shall be epoxy coated.

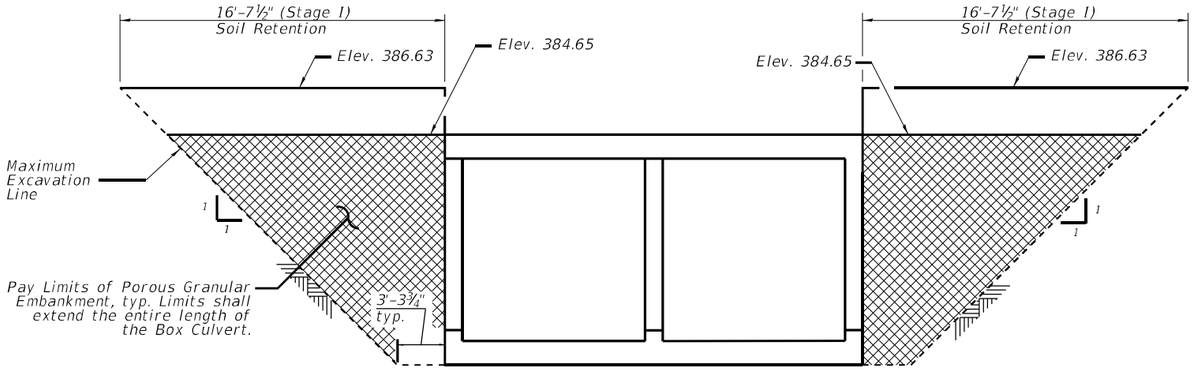
Layout of the slope protection system may be varied to suit ground conditions in the field as directed by the Engineer.

Protective Coat shall not be applied to surfaces to which Membrane Waterproofing System for Buried Structures is applied.

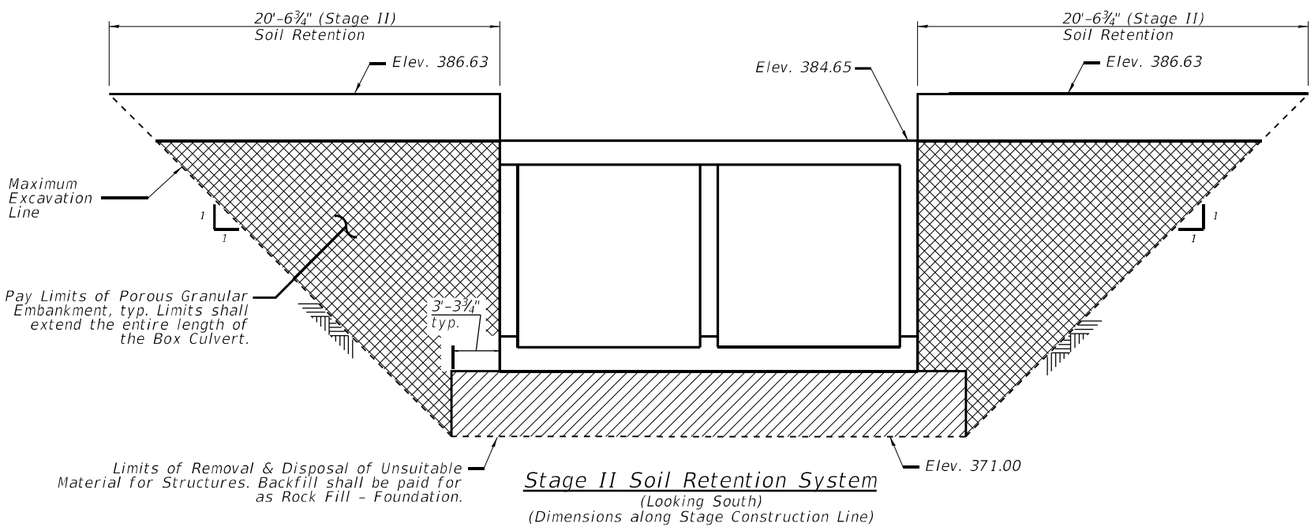
Precast alternative is not allowed.

TOTAL BILL OF MATERIAL

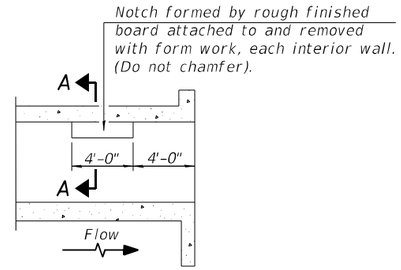
ITEM	UNIT	TOTAL
Porous Granular Embankment	Cu. Yd.	414
Stone Riprap, Class A5	Ton	304
Filter Fabric	Sq. Yd.	295
Removal of Existing Structures No. 2	Each	1
Removal and Disposal of Unsuitable Materials for Structures	Cu. Yd.	326
Protective Coat	Sq. Yd.	18
Reinforcement Bars, Epoxy Coated	Pound	29,390
Bar Splicers	Each	111
Steel Railing, Type CO-10	Foot	48
Name Plates	Each	1
Concrete Box Culverts	Cu. Yd.	155.0
Geocomposite Wall Drain	Sq. Yd.	122
Membrane Waterproofing System for Buried Structures	Sq. Yd.	122
Temporary Soil Retention System	Sq. Ft.	590
Temporary Support System	Each	2
Rock Fill – Foundation	Ton	515



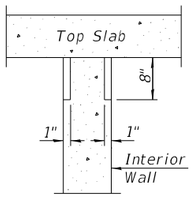
Stage I Soil Retention System
(Looking South)
(Dimensions along Stage Construction Line)



Stage II Soil Retention System
(Looking South)
(Dimensions along Stage Construction Line)



LONGITUDINAL SECTION

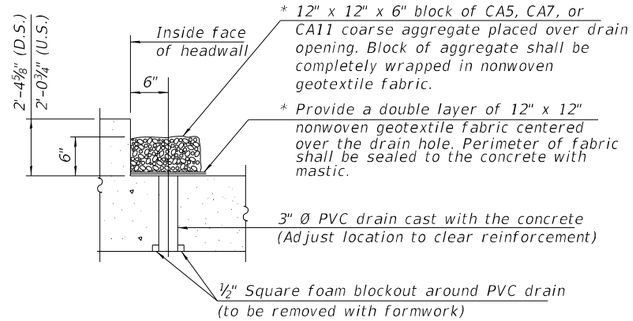


SECTION A-A

PHOEBE NESTING SITE DETAILS

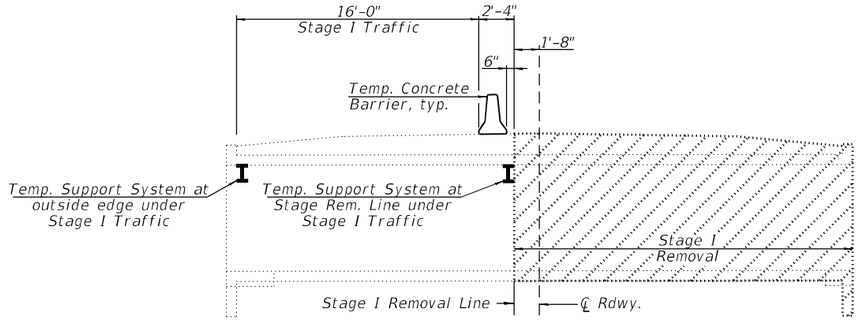
(Downstream End Only)

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



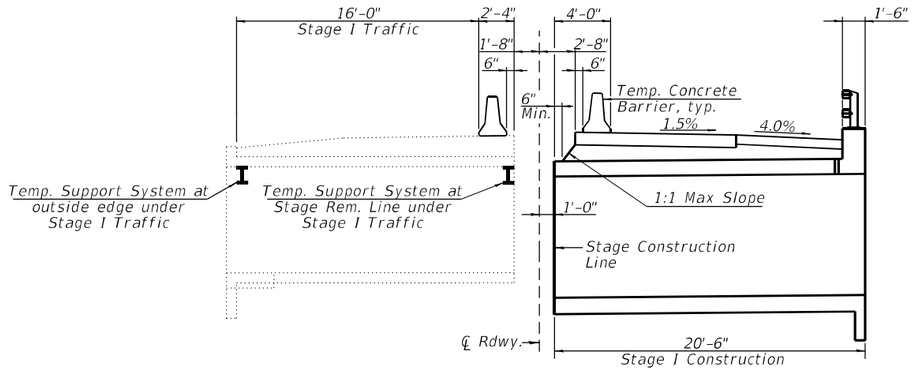
DRAIN DETAIL (4 each)

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



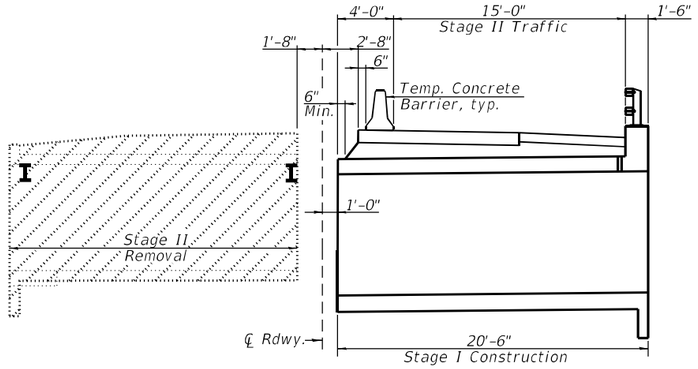
STAGE I REMOVAL SECTION

(Looking West)



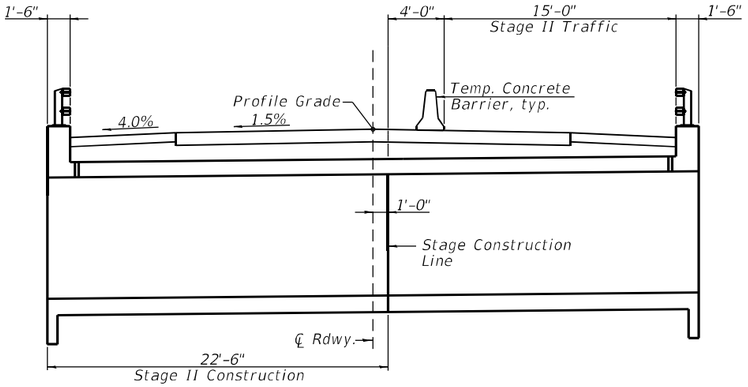
STAGE I CONSTRUCTION SECTION

(Looking West)



STAGE II REMOVAL SECTION

(Looking West)



STAGE II CONSTRUCTION SECTION

(Looking West)

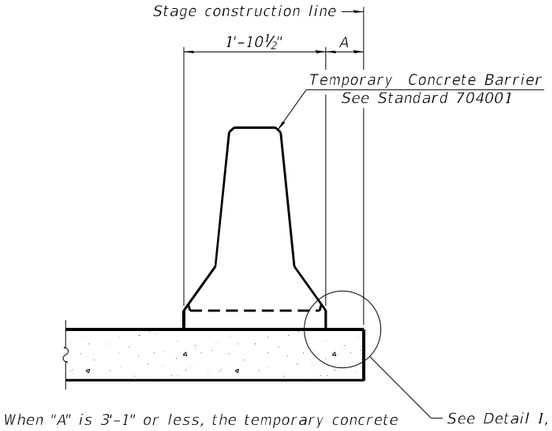
Notes:

Hatched areas indicate Removal of Existing Structures.

See Roadway Plans for quantity and details of Temporary Concrete Barrier.

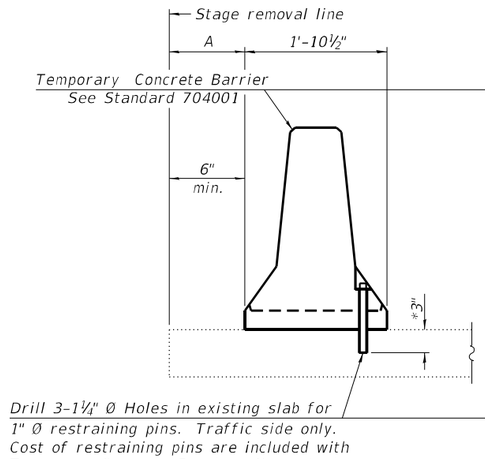
A cantilevered sheet piling design does not appear to be feasible and additional members or other retention systems may be necessary. The Contractor shall submit a Temporary Soil Retention System design including plan details and calculations for review and acceptance by the Engineer.

The Contractor shall submit a Temporary Support System design including plan details and calculations for review and acceptance by the Engineer. Note that splices may be required to erect the Temporary Support System within the existing structure.



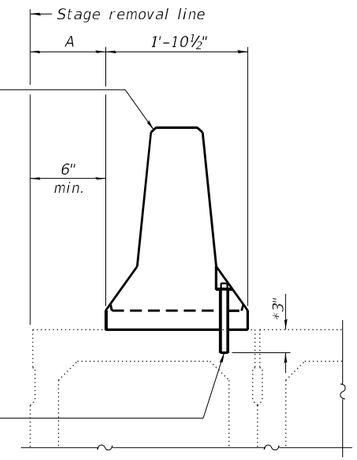
When "A" is 3'-1" or less, the temporary concrete barrier shall be restrained to the new slab according to Detail I, II or III. No restraint is required when "A" is greater than 3'-1".

NEW SLAB OR NEW DECK BEAM



Drill 3-1¼" 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".

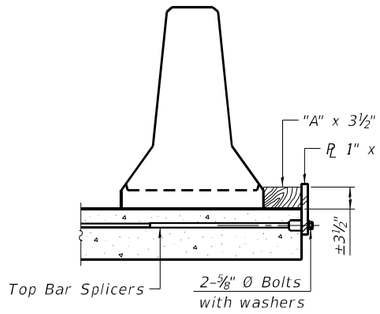
EXISTING SLAB



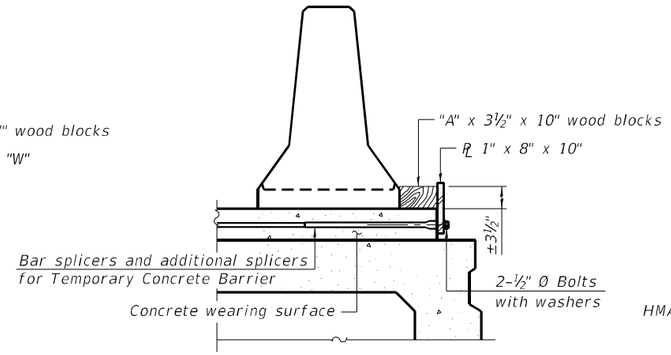
* When hot-mix asphalt wearing surface is present, embedment shall be 3" plus the wearing surface depth.

EXISTING DECK BEAM

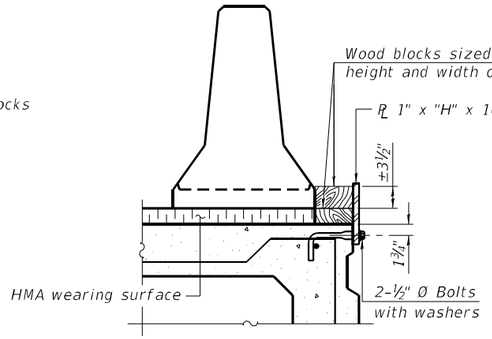
SECTIONS THRU SLAB OR DECK BEAM



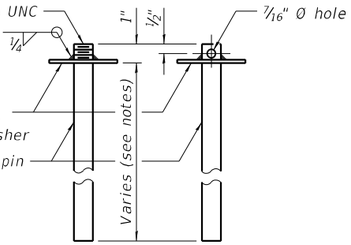
DETAIL I



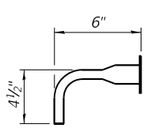
DETAIL II



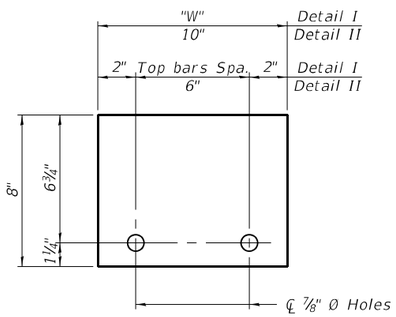
DETAIL III



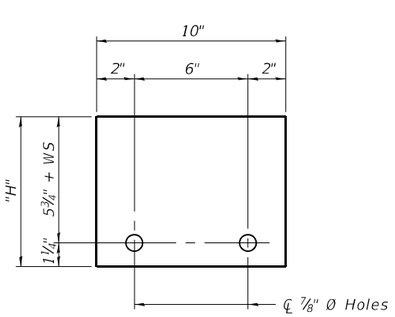
RESTRAINING PIN



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 ℄ 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 1½", 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

10-12-2021

CDI
CIVIL DESIGN, INC.
WBE | DBE
EFFINGHAM, IL
LICENSE #184.003222

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

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMP. CONCRETE BARRIER FOR STAGE CONST.
STRUCTURE NO. 039-2034
SHEET NO. 4 OF 12 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
312	123B-6	JACKSON	101	47
		CONTRACT NO. 78790		
	ILLINOIS FED. AID PROJECT			

*46-#6 h10(E) bars at 6" cts. (U.S. Headwall)
*46-#6 h11(E) bars at 6" cts. (D.S. Headwall)
**46-#7 h12(E) bars at 6" cts. (Each Headwall)

22'-6" Stage II Construction
20'-6" Stage I Construction
℄ Roadway
25° skew
Stage Construction Line
12"
1-#6 v(E) & v1(E) bar (Each Corner)
h6(E)
v2(E)
2" cl.
A
See Joint Detail
Back Face
6'-9"
15"
32.5°
10'-5¾"
16'-5⅜"
12'-9"
9"
1'-6"
3" Dia. PVC Drains, Each Cell, Each End
℄ Culvert
13"
67-#6 a2(E) bars at 8" cts.
Top of Top Slab (32 Stage I, 35 Stage II)
76-#6 a1(E) bars at 7" cts.
Bot. of Top Slab (36 Stage I, 40 Stage II)
Sta. 345+42.00
Flow
21-#4 d(E) bars at 12" cts., Each Stage
9'-0"
21-Bar Splicers for #6 h(E) bars & #6 h1(E) bars Top & Bottom of Top Slab & Bottom Slab
21-#6 h(E) bars (Stage I) & 21-#6 h1(E) bars (Stage II) at 12" cts. Top & Bottom of Top Slab & Bottom Slab
21-#4 s(E) or s1(E) bars at 12" cts.
2-#6 h4(E) bars in Top of Bott. Slab, Ea. End
76-#6 a1(E) bars at 7" cts.
Top of Bot. Slab (36 Stage I, 40 Stage II)
67-#6 a2(E) bars at 8" cts.
Bot. of Bot. Slab (32 Stage I, 35 Stage II)
a(E) bar below barrel cut to fit
10-#6 h4(E) bars, Each Stage
(See Section Thru Headwall)
6'-10¼"
12'-9"
4" typ.
6'-2" typ.
10'-9"
15"
57.5°
v(E) & v1(E)
21'-6"
Wingwall Extension NW & SE corners
23'-8¾"
47'-5½"

SHOWING TOEWALL

PLAN

SHOWING HEADWALL

B
1-#4 h8(E) bar, Each Face
7-#5 h9(E) bars at 12" cts. Each Face
13-#6 t(E) bars at 6" cts. Top & Bottom
13-#6 n(E) bars at 6" cts. Each Face
6-#5 w(E) bars at 12" cts., Top & Bottom

WINGWALL EXTENSIONS

h8(E)
h9(E)
n(E)
t(E)
w(E)
2" cl.
2'-0"
15"
5'-0"

SECTION B-B

h6(E)
h6(E) or h7(E)
Back Face
Const. Jt.
h7(E)
15"

SECTION A-A

6" Hollow bulb dumbbell type nonmetallic water seal (6" from top of wall to bottom) Cost included with Concrete Box Culverts.
½" PJF
1" Chamfer
Concrete Nails (Flat Hd. C.S.) 1" long at 12" cts. vertical

JOINT DETAIL

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a(E)	2	#4	21'-11"	
a1(E)	152	#6	23'-3"	
a2(E)	134	#6	21'-11"	
d(E)	42	#4	4'-5"	
h(E)	84	#6	22'-3"	
h1(E)	84	#6	24'-5"	
h2(E)	27	#5	22'-3"	
h3(E)	27	#5	24'-5"	
h4(E)	24	#6	20'-10"	
h6(E)	84	#7	8'-0"	
h7(E)	72	#7	15'-9"	
h8(E)	4	#4	6'-10"	
h9(E)	28	#5	6'-4"	
h10(E)	46	#6	4'-8"	
h11(E)	46	#6	5'-0"	
h12(E)	92	#7	6'-11"	
n(E)	26	#6	19'-0"	
s(E)	21	#4	9'-5"	
s1(E)	21	#4	8'-7"	
t(E)	52	#6	4'-8"	
v(E)	199	#6	8'-2"	
v1(E)	199	#6	5'-5"	
v2(E)	8	#4	22'-7"	
w(E)	24	#5	6'-5"	
Concrete Box Culverts			Cu. Yd.	155.0
Reinforcement Bars, Epoxy Coated			Pound	29,390

Notes:
A distance of half the length of the wingwall but not less than six feet of the barrel shall be poured monolithically with the wingwalls.

At the Contractor's option, a longer v1(E) bar may be ordered to replace the v(E) bar. No reduction in quantities shall be made for this substitution.

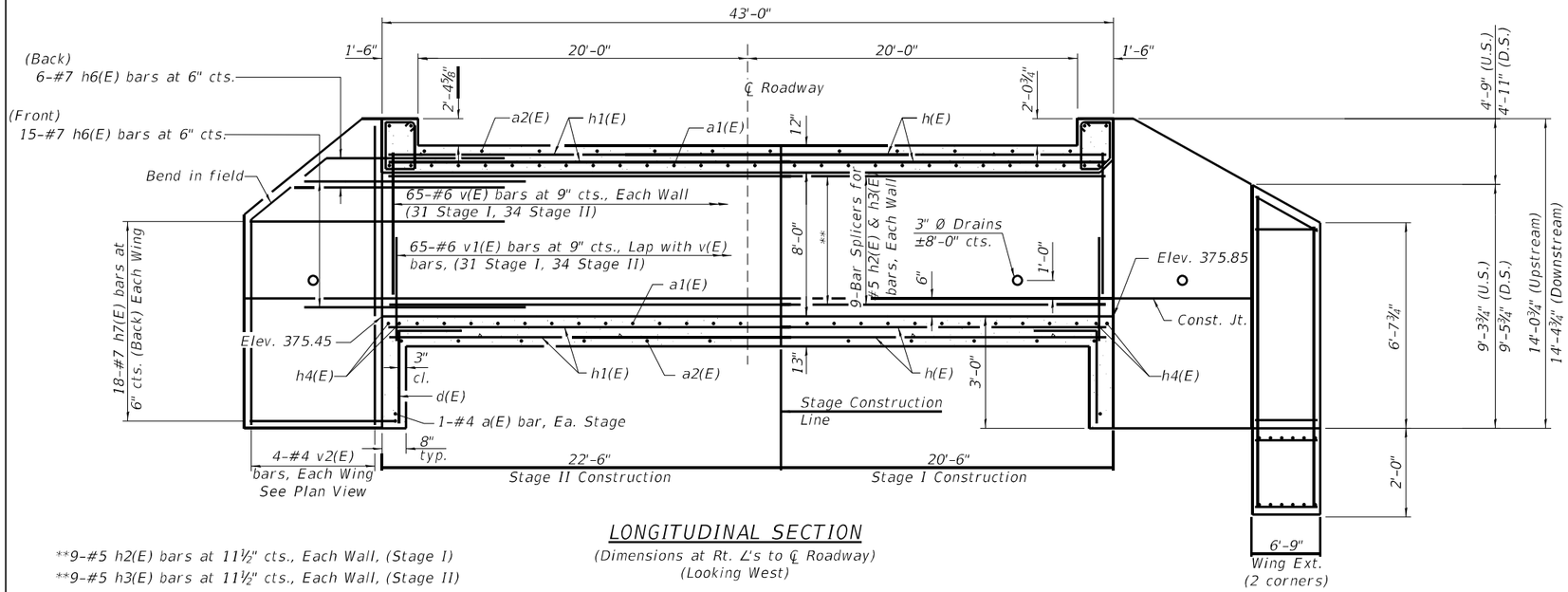
CDI CIVIL DESIGN, INC. WBE | DBE EFFINGHAM, IL LICENSE #184.003222

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

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SLAB REINFORCEMENT PLAN
STRUCTURE NO. 039-2034
SHEET NO. 5 OF 12 SHEETS

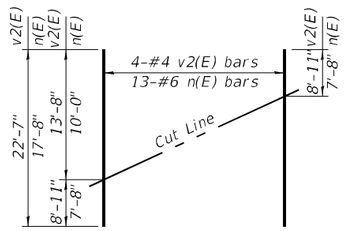
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
312	123B-6	JACKSON	101	48
		CONTRACT NO. 78790		
	ILLINOIS FED. AID PROJECT			



**9-#5 h2(E) bars at 11½" cts., Each Wall, (Stage I)
**9-#5 h3(E) bars at 11½" cts., Each Wall, (Stage II)

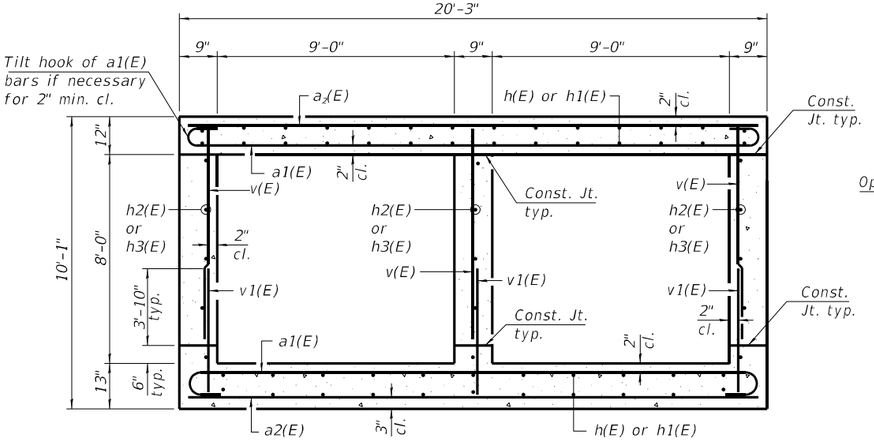
LONGITUDINAL SECTION

(Dimensions at Rt. ℄'s to ℄ Roadway)
(Looking West)

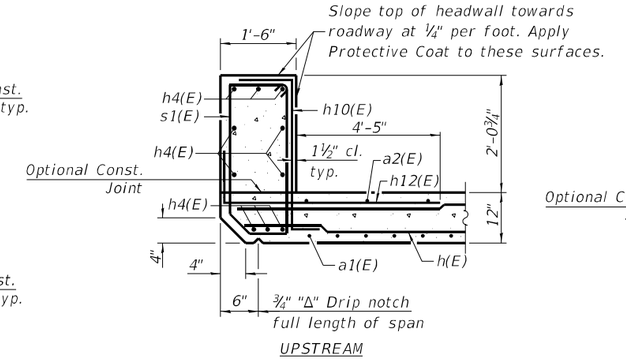


FIELD CUTTING DIAGRAM

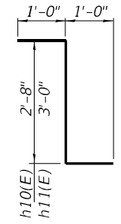
Order v2(E) & n(E) bars full length. Cut as shown and use remainder of bars in opposite face.



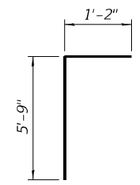
SECTION THRU BARREL



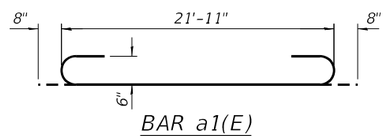
SECTION THRU HEADWALL



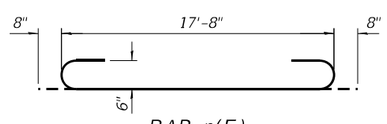
BARS h10(E) & h11(E)



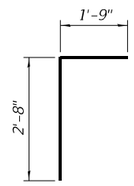
BAR h12(E)



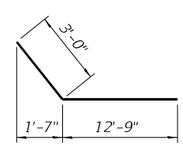
BAR a1(E)



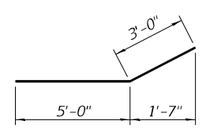
BAR n(E)



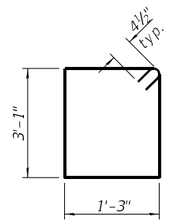
BAR d(E)



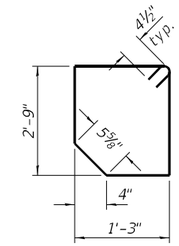
BAR h7(E)



BAR h6(E)



BAR s(E)

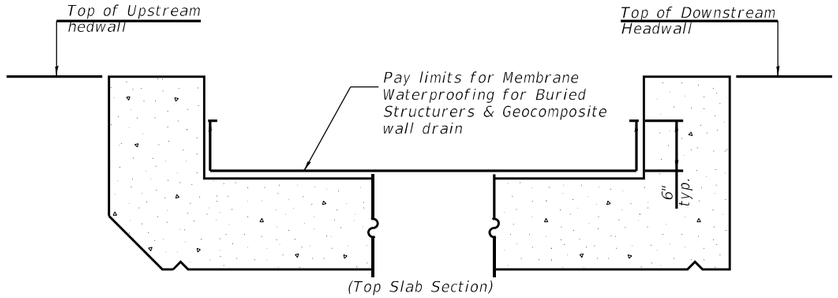


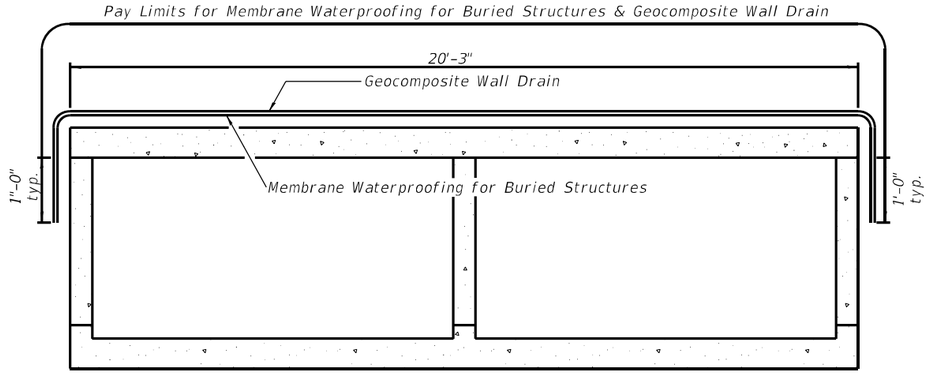
BAR s1(E)

Notes:

A distance of half the length of the wingwall but not less than six feet of the barrel shall be poured monolithically with the wingwalls.

At the Contractor's option, a longer v1(E) bar may be ordered to replace the v(E) bar. No reduction in quantities shall be made for this substitution.

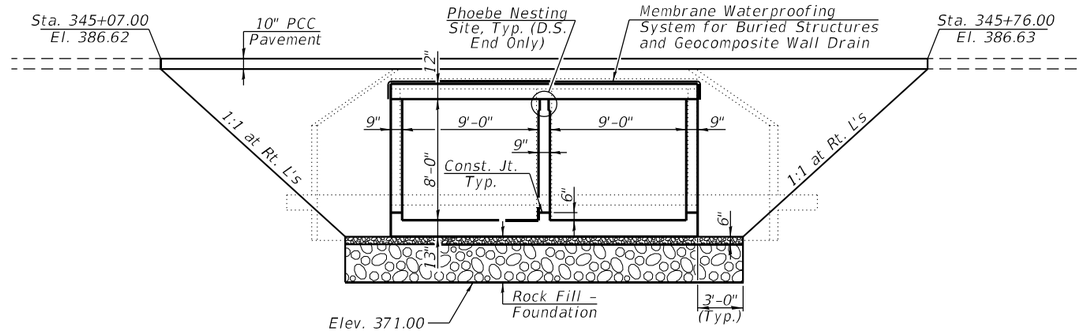




(Looking at Box Section)

MEMBRANE WATERPROOFING FOR BURIED STRUCTURES

Note: Membrane Waterproofing for Culverts shall cover top of the top slab, top one foot of side walls (below top slab joint), and 6 inches up inside face of headwalls.

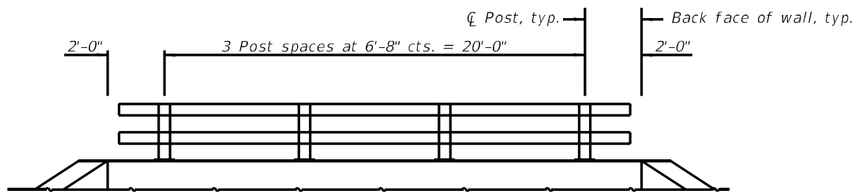


SECTION THRU CULVERT

(All horizontal dimensions are shown at Right Angles)
(Existing bridge foundation within the limits of the proposed construction to be removed.)

Note:

The Rock Fill shall be capped according to the Rock Fill - Foundation Special Provision.
The cost of the capping material shall be included in the pay item for Rock Fill - Foundation.



HEADWALL RAILING ELEVATION

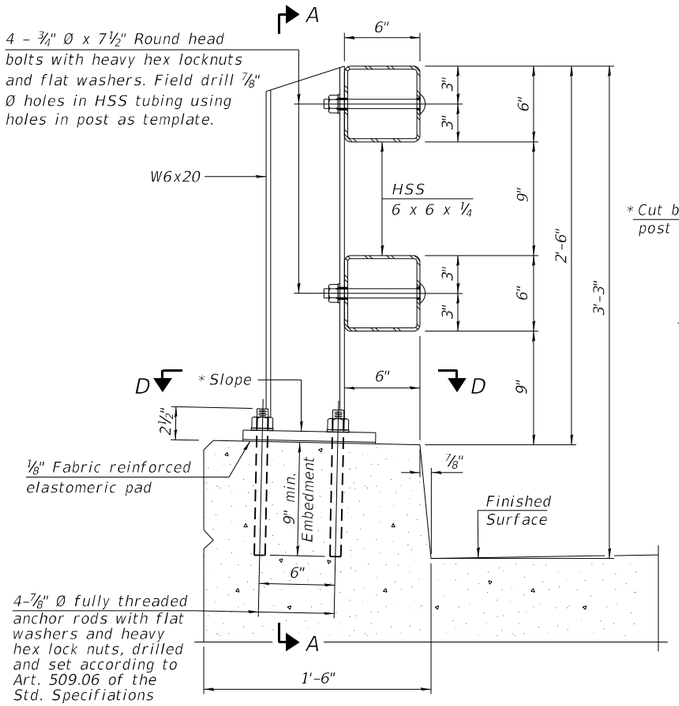
CIVIL DESIGN, INC.
WBE | DBE
EFFINGHAM, IL
LICENSE #184.003222

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

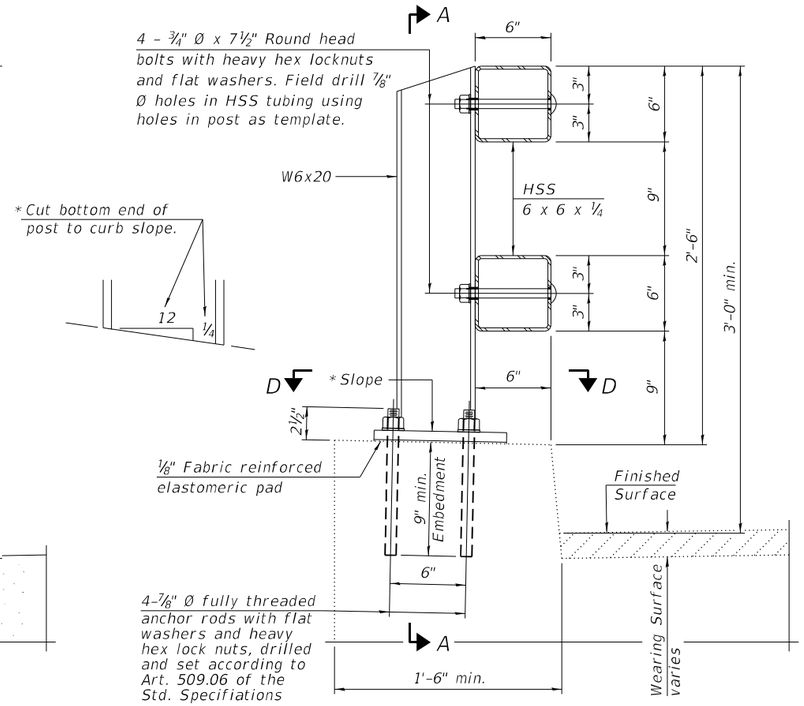
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CULVERT DETAILS - 2
STRUCTURE NO. 039-2034
SHEET NO. 7 OF 12 SHEETS

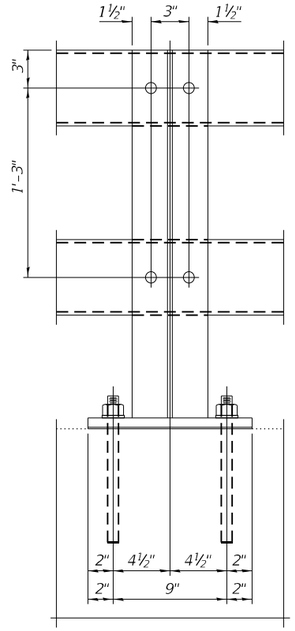
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
312	123B-6	JACKSON	101	50
		CONTRACT NO. 78790		
	ILLINOIS	FED. AID PROJECT		



SECTION AT RAIL POST
(New construction)

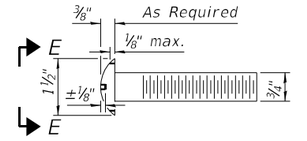


SECTION AT RAIL POST
(Retrofit construction)

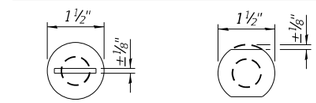


SECTION A-A

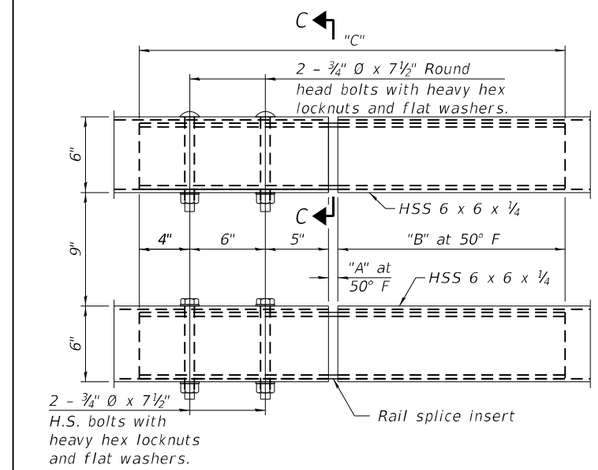
Notes:
All HSS tubing shall be ASTM A500 grade C.
All plates shall be AASHTO M270 grade 50.
All heavy hex nuts shall be according to ASTM A563 grade DH.
All fully threaded anchor rods shall be ASTM F1554 grade 105.
The post base plate shall be fastened to the curb snug tight and given an additional ⅛" turn.
Posts shall not be located closer than 2'-6" to a bridge expansion joint.
Provide one ⅛" and two 1/16" steel shims for 25% of the posts. Shims shall be similar to base plates in size and holes.
All steel rail elements shall be galvanized according to Article 509.05 of the Standard Specifications.
All HSS tubing shall be CVN tested according to Article 1006.34(b) of the Standard Specifications.
Rail splice inserts may be built out of 2 -⅜" bent plates in lieu of the 4 plate rail splice inserts shown, provided the outside dimensions are matched.
All round head bolts shall be ASTM A449.
The centerline of rail splices shall be placed between 1'-8" to 2'-6" from the centerline of the posts. The free end of the splice tube shall be oriented away from the closest post.



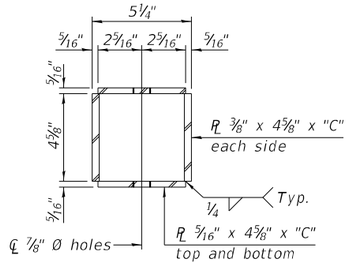
ROUND HEAD BOLT DETAIL



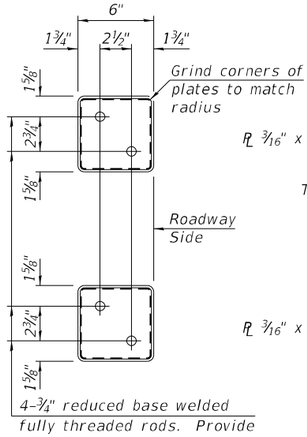
VIEW E-E



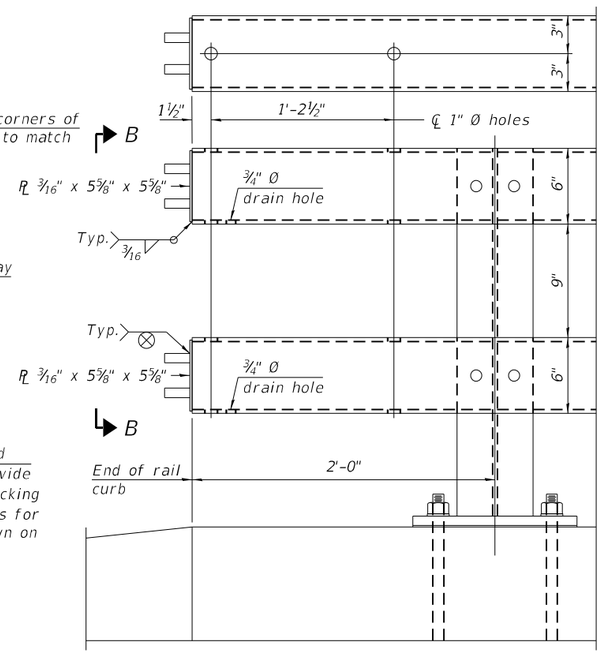
TOP AND BOTTOM RAIL SPLICE ELEVATION



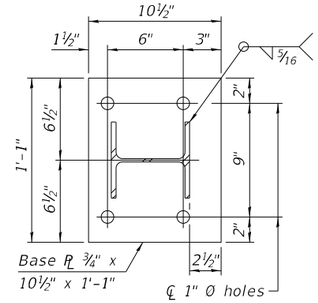
SECTION C-C



VIEW B-B



END OF RAIL DETAILS



SECTION D-D

RAILING CRITERIA

MASH 2016 Test Level	4
Railing Weight (plf)	75
Min f'c (psi)	4,500
Post Spacing Range	6'-8" - 10'-0"

SPLICE DIMENSIONS

Location	T	A	B	C
All locs. not over exp. jts.	0	½"	1'-6"	2'-9½"
Over Strip Seal Jt.	≤4"	2½"	1'-8"	3'-1½"
Over Finger or Modular Jt.	≤9½"	5½"	1'-10¾"	3'-7¼"
Over Finger or Modular Jt.	≤15"	8¾"	2'-1½"	4'-0¾"

T = ; total movement along centerline of roadway at expansion joint.

BILL OF MATERIAL

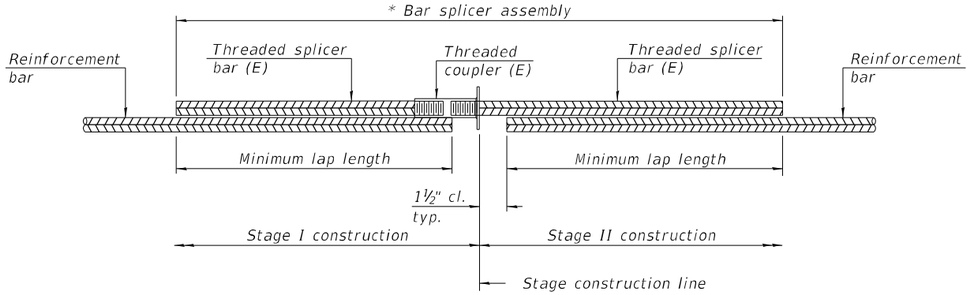
Item	Unit	Quantity
Steel Railing, Type CO-10	Foot	48

R-42 10-12-2021

CIVIL DESIGN, INC. WBE | DBE
EFFINGHAM, IL
LICENSE #184.003222

USER NAME =	DESIGNED - JAG	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	STEEL RAILING, TYPE CO-10 STRUCTURE NO. 039-2034
	CHECKED - ADB	REVISED -		SHEET NO. 8 OF 12 SHEETS
PLOT SCALE =	DRAWN - JAG	REVISED -		
PLOT DATE =	CHECKED - ADB	REVISED -		

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
312	123B-6	JACKSON	101	51
		CONTRACT NO. 78790		
	ILLINOIS FED. AID PROJECT			



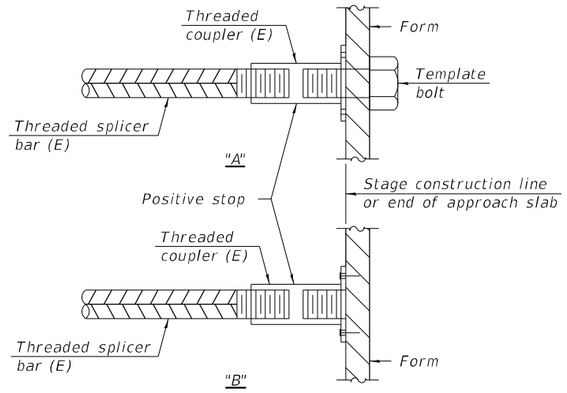
STANDARD BAR SPLICER ASSEMBLY PLAN

(All components shall be provided from one supplier)

Threaded splicer bar length = min. lap length + 1½" + thread length

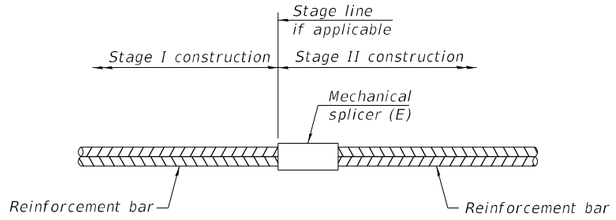
* Epoxy not required on Bar Splicer Assembly components used in conjunction with black bars.

Location	Bar size	No. assemblies required	Minimum lap length
Top Slab	#6	21	3'-10"
Top Slab	#6	21	3'-10"
Bottom Slab	#6	21	3'-10"
Bottom Slab	#6	21	3'-10"
Walls	#5	27	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

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.

BSD-1 1-1-2020

CIVIL DESIGN, INC.
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EFFINGHAM, IL
LICENSE #184.003222

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

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BAR SPLICER ASSEMBLY & MECH. SPLICER DETAILS
STRUCTURE NO. 039-2034
SHEET NO. 9 OF 12 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
312	123B-6	JACKSON	101	52
		CONTRACT NO. 78790		
	ILLINOIS FED. AID PROJECT			

Illinois Department of Transportation
Division of Highways
District 9

SOIL BORING LOG

Page 1 of 1

Date 4/9/20

ROUTE IL 3 DESCRIPTION Box culvert over drainage ditch LOGGED BY L. Estel

SECTION 123B-6 LOCATION 0.1 mi. SE of Raddle Rd, SEC. 29, TWP. 8S, RNG. 4W, 3 PM

COUNTY Jackson DRILLING METHOD Hollow stem auger (8" O.D., 3.25" I.D.) HAMMER TYPE Auto SPT 140 lb

STRUCT. NO. 039-2014
Station 345+42

BORING NO. 1-S
Station 345+69
Offset 7.0ft Right
Ground Surface Elev. 385.6 ft

Surface Water Elev. ft
Stream Bed Elev. 376.2 ft

Groundwater Elev.:
▽ First Encounter 373.6 ft
▽ Upon Completion ft
▼ After Hrs. ft

DEPTH (ft)	BLOWS	UCS Qu (tsf)	MOIST (%)
Cored Pavement, 2.5" HMA over 9.5" PCC 384.60			
M. Stiff Brown, Moist CLAY	1		
	3	0.8	27
	2	B	
(Stiff) -5	1		
	2	1.6	22
	5	B	
378.60			
V. Soft Brown, Moist to Wet SILT	WOH		
	1	0.2	28
	1	B	
-10	WOH		
	WOH	0.1	28
	WOH	B	
▽			
	WOH		
	WOH	0.1	26
	WOH	B	
-15	WOH		
	WOH	0.1	26
	WOH	B	
	WOH		
	WOH	0.1	30
	WOH	B	
-20	WOH		

DEPTH (ft)	BLOWS	UCS Qu (tsf)	MOIST (%)
V. Soft Brown, Moist to Wet SILT (continued) 364.60	WOH	0.1	28
	WOH	B	
-25			
-30			
-35			
-40			

Bottom of hole @ 21.0 ft

Elevation referenced to BM 1003, Cut Square on top of SE HDWL of SN 039-2014; EL. 384.85

To convert "N" values to "N60", multiply by 1.5

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)

File Name:S:\MATERIALS GEOTECHNICAL UNIT\GINT\PROJECTS\PROJECTS FILE\JACKSON\STRUCTURES\039-2014 IL 3 OVER DRAINAGE DITCH\039-2014 IL 3 OVER DRAINAGE DITCH 2020.GPJ Data Template D6TEMPLT.GDT Date Printed 4/23/20
Latitude 37° 48' 11.14 Longitude 89° 34' 45.35 Datum NAD83 Job Number

Illinois Department of Transportation
Division of Highways
District 9

SOIL BORING LOG

Page 1 of 1

Date 4/9/20

ROUTE IL 3 DESCRIPTION Box culvert over drainage ditch LOGGED BY L. Estel

SECTION 123B-6 LOCATION 0.1 mi. SE of Raddle Rd, SEC. 29, TWP. 8S, RNG. 4W, 3 PM

COUNTY Jackson DRILLING METHOD Hollow stem auger (8" O.D., 3.25" I.D.) HAMMER TYPE Auto SPT 140 lb

STRUCT. NO. 039-2014
Station 345+42

BORING NO. 2-S
Station 345+16
Offset 7.0ft Left
Ground Surface Elev. 385.7 ft

Surface Water Elev. ft
Stream Bed Elev. 376.2 ft

Groundwater Elev.:
▽ First Encounter 366.2 ft
▽ Upon Completion ft
▼ After Hrs. ft

DEPTH (ft)	BLOWS	UCS Qu (tsf)	MOIST (%)
Cored Pavement, 2.5" HMA over 9.5" PCC 384.70			
M. Stiff Brown, Moist SILT	3		
	5	0.8	22
	11	B	
-5	1		
	2	0.7	26
	3	B	
	WOH		
	1	0.6	23
	3	B	
-10	WOH		
	1	0.7	25
	2	B	
	1		
	3	0.9	23
	3	B	
371.20			
V. Soft Brown, Moist SILT	WOH		
-15	WOH	0.2	27
	WOH	B	
▽			
	WOH		
-20	1	0.2	26

DEPTH (ft)	BLOWS	UCS Qu (tsf)	MOIST (%)
V. Soft Brown, Moist SILT (continued) 364.70	1	B	
-25			
-30			
-35			
-40			

Bottom of hole @ 21.0 ft

Elevation referenced to BM 1003, Cut Square on top of SE HDWL of SN 039-2014; EL. 384.85

To convert "N" values to "N60", multiply by 1.5

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)

File Name:S:\MATERIALS GEOTECHNICAL UNIT\GINT\PROJECTS\PROJECTS FILE\JACKSON\STRUCTURES\039-2014 IL 3 OVER DRAINAGE DITCH\039-2014 IL 3 OVER DRAINAGE DITCH 2020.GPJ Data Template D6TEMPLT.GDT Date Printed 4/23/20
Latitude 37° 48' 10.05 Longitude 89° 34' 44.46 Datum NAD83 Job Number

BOND ISSUE ROUTE NO.	SEC.	COUNTY	TOTAL SHEETS	SHEET NO.
150	C-123	JACKSON	93	1
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT 194		

STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS AND BUILDINGS
DIVISION OF HIGHWAYS
PLANS FOR PROPOSED
STATE BOND ISSUE HIGHWAY

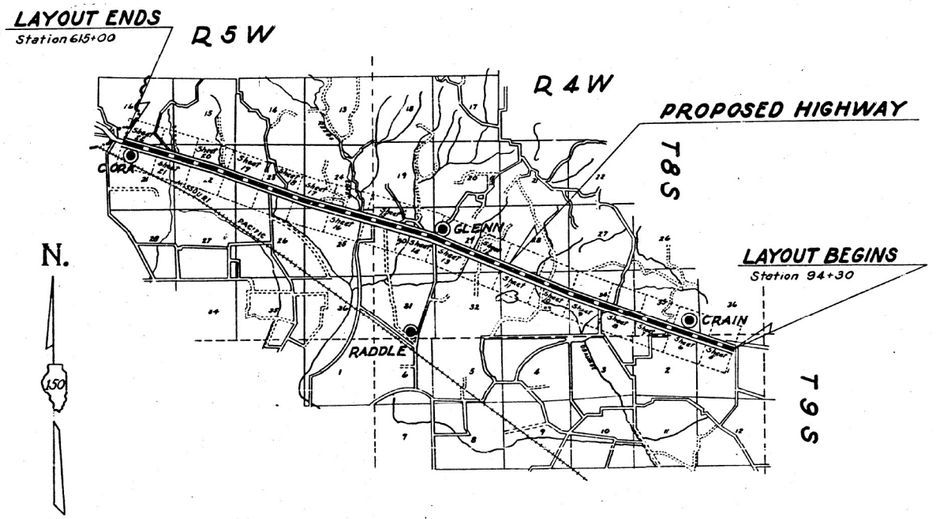
SCALES

PLAN	1 INCH	100 FT.
PROFILE, HOR.	1 INCH	100 FT.
PROFILE, VERT.	1 INCH	10 FT.
CROSS-SECTIONS	1 INCH	5 FT.

F.A. PROJECT 194-C
ROUTE 150 SECTION 123 JACKSON COUNTY

FROM A POINT NEAR THE S.E. CORNER OF THE N.E. ¼ N.W. ¼ OF SEC. 1. T. 9S. R. 4 W. OF THE 3 RD. P.M.
TO A POINT NEAR THE S.W. CORNER OF THE S.E. ¼ S.W. ¼ OF SEC. 16 T. 8S. R. 5 W. OF THE 3 RD. P.M.

INDEX OF SHEETS



LAYOUT

Approximate Scale 1 Inch = 1 Mile
Net Length of Layout 52070 Feet = 9.8617 Mile

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

SUBMITTED February 4 1932
G. A. Somerville DISTRICT ENGINEER

EXAMINED April 6 1932
[redacted] ROAD ENGINEER

PASSED April 6 1932
[redacted] DIRECTOR OF ROADS

APPROVED April 6 1932
[redacted] CHIEF HIGHWAY ENGINEER
ACTING SUPERINTENDENT OF PUBLIC ROADS

APPROVED April 6 1932
[redacted] DIRECTOR

RECOMMENDED FOR APPROVAL
[redacted]
DISTRICT ENGINEER, Bureau of Public Roads

RECOMMENDED FOR APPROVAL
[redacted]
CHIEF ENGINEER, Bureau of Public Roads

APPROVED
[redacted]
CHIEF, Bureau of Public Roads

STATE LINE		RETAINING WALL	
COUNTY LINE		BASE OR SURVEY LINE	
CITY, VILLAGE OR TOWN		LEVEE	
TOWNSHIP LINE		CULVERT	
SECTION LINE		STORM SEWER	
GRANT LINE		TILE DRAIN	
SECTION CORNER		DROP INLET	
FENCE LINE		TROLLEY POLE	
UNFENCED PROPERTY		POWER POLE	
RIGHT OF WAY LINE		TELEPHONE OR TELEGRAPH POLE	
GUARD RAIL		MARSH	
STEAM RAILROAD		HEDGE	
ELECTRIC RAILROAD			

039-2014

9-23

JACKSON COUNTY SECTION 123 ROUTE 150

E.B.J. 4-6-32

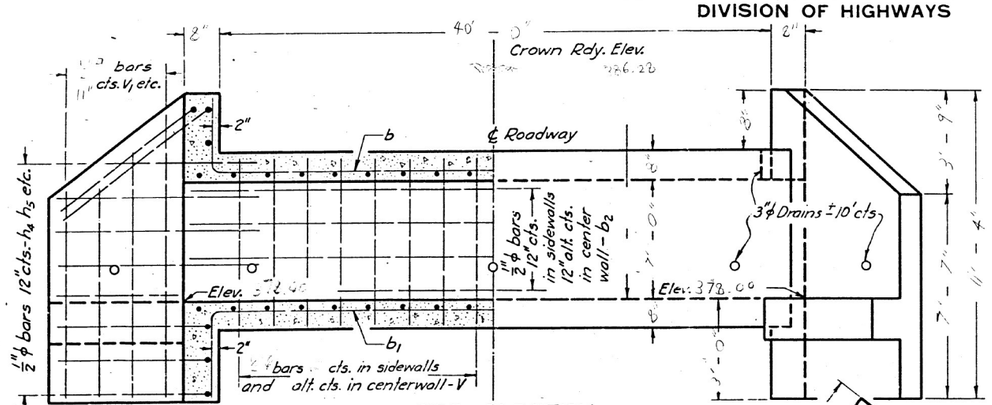
CDI CIVIL DESIGN, INC. WBE | DBE EFFINGHAM, IL LICENSE #184.003222	USER NAME =	DESIGNED - JAG	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
		CHECKED - ADB	REVISED -	
	PLOT SCALE =	DRAWN - JAG	REVISED -	
	PLOT DATE =	CHECKED - ADB	REVISED -	

EXISTING STRUCTURE PLANS - 1
STRUCTURE NO. 039-2034
SHEET NO. 11 OF 12 SHEETS

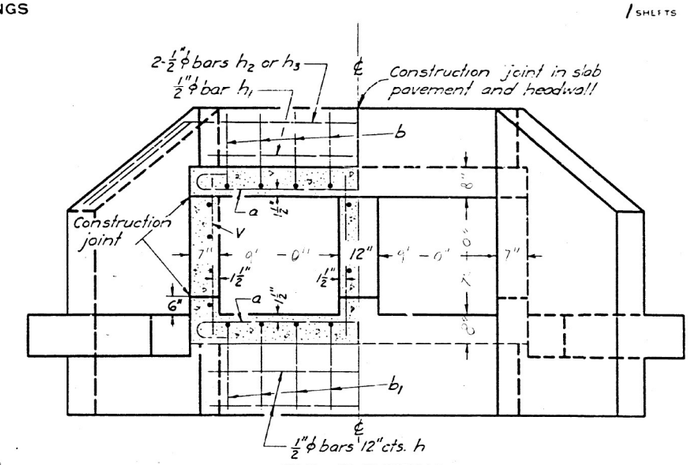
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
312	123B-6	JACKSON	101	54
		CONTRACT NO. 78790		
	ILLINOIS FED. AID PROJECT			

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

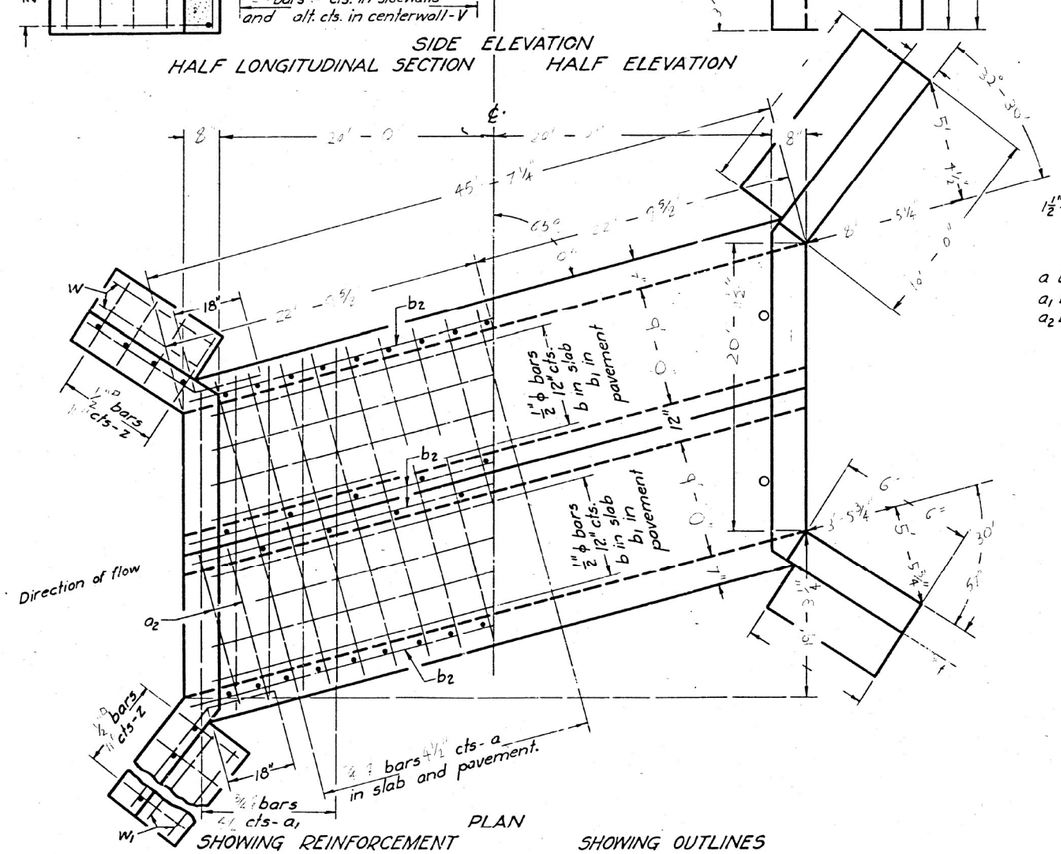
SHEET NO 1
1 SHEETS



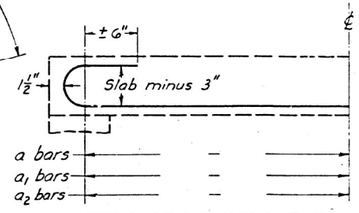
SIDE ELEVATION
HALF LONGITUDINAL SECTION



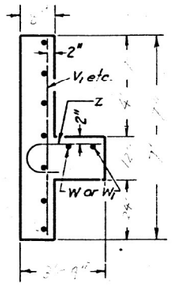
END ELEVATION
HALF SECTION HALF ELEVATION



PLAN
SHOWING REINFORCEMENT



DETAIL OF a a1 AND a2 BARS



END OF WING

SHOWING OUTLINES

BILL OF MATERIAL

Bars	Number	Size	Length
a	122	No. 6	21'-6"
a1	92	"	22'-1"
a2			
b			
b1			
b2			
h			
h1			
h2			
h3			
h4			
h5			
h6			
h7			
V			
V1			
V2			
V3			
W			
W1			
z			
Class X concrete Cu. Yds.			
Reinforcing Steel Lbs.			

STANDARD	COMPUTED —	
	CHECKED —	
	DRAWN — J.C. Anderson	
	CHECKED —	
SPECIAL	ASSEMBLED —	
	CHECKED —	

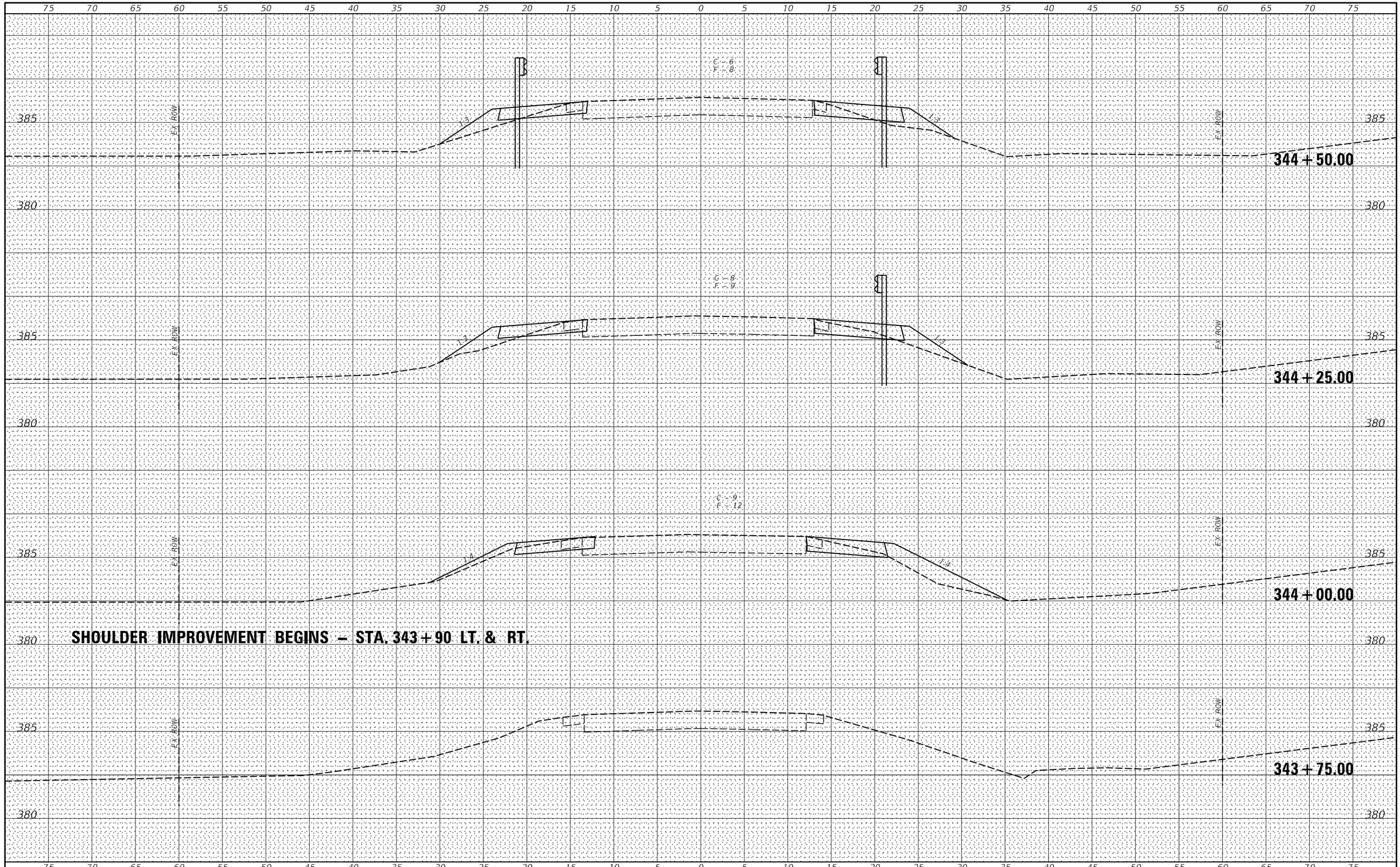
EXAMINED _____ 19____
_____ BRIDGE ENGINEER
PASSED
_____ ENGINEER OF DESIGN
APPROVED
_____ CHIEF HIGHWAY ENGINEER

Class X concrete shall be used throughout.

All reinforcing steel shall be wired securely in place before concrete is poured.

To be used for skews up to and including 30° only.

Standard 1348



FINAL SURVEY

NOTE BOOK	BY	DATE
NO.		

SURVEYED
PLOTTED
TEMPLATE
AREAS
AREAS CHECKED

ORIGINAL SURVEY

NOTE BOOK	BY	DATE
NO.		

SURVEYED
PLOTTED
TEMPLATE
AREAS
AREAS CHECKED

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

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

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS – SN 039–2034

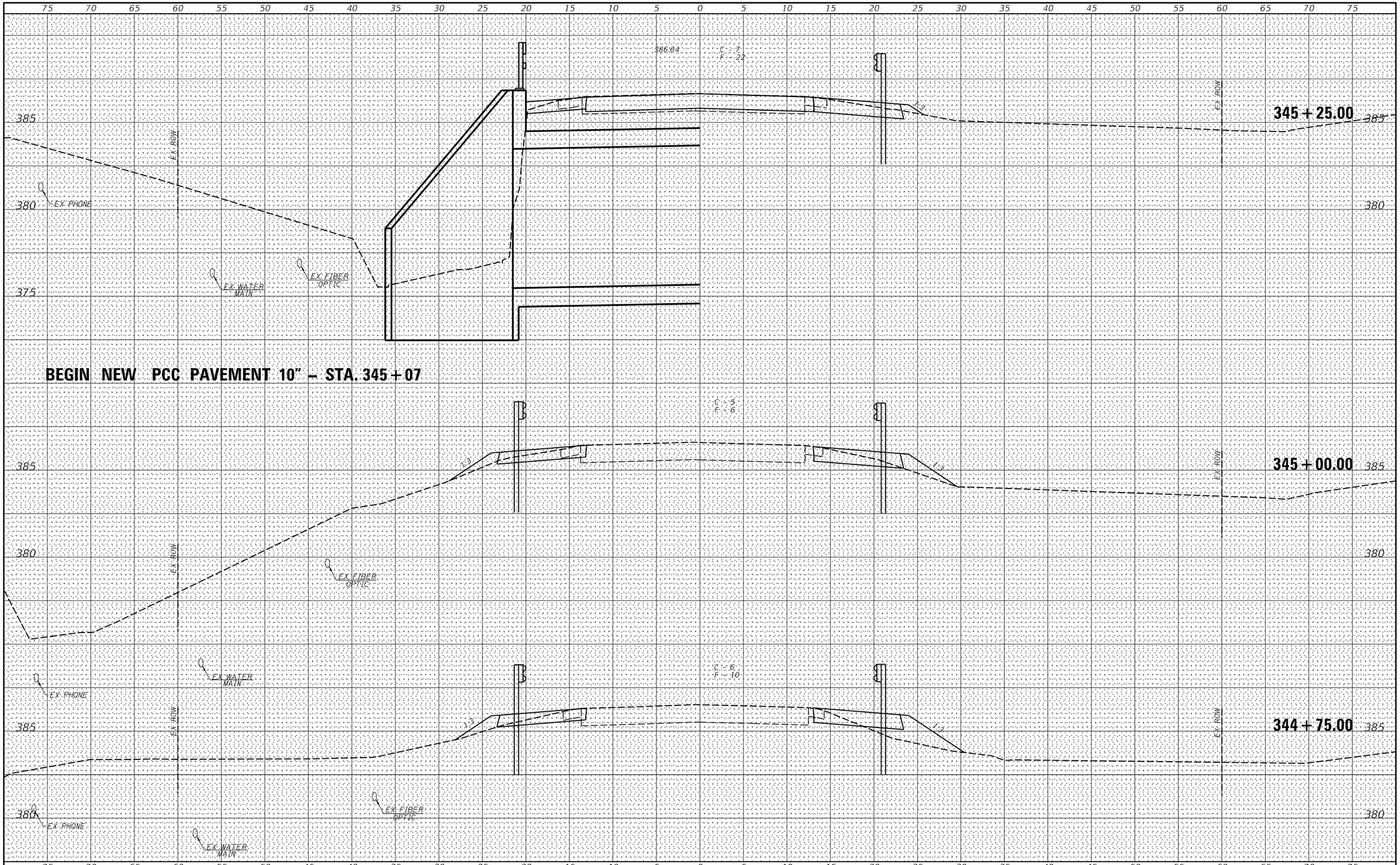
SCALE: | SHEET NO. 1 OF 5 SHEETS | STA. 343+75.00 | TO STA. 344+50.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
312	123B-6	JACKSON	101	56
		CONTRACT NO. 78790		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

FINAL SURVEY	NOTE BOOK	NO.

BY	DATE

SURVEYED
PLOTTED
TEMPLATE
AREAS
AREAS CHECKED



ORIGINAL SURVEY	NOTE BOOK	NO.

BY	DATE

SURVEYED
PLOTTED
TEMPLATE
AREAS
AREAS CHECKED

VEENSTRA & KIMM INC.	USER NAME = $USER$	DESIGNED -	REVISED -
Springfield, IL. Phone: (217)544-8033		DRAWN -	REVISED -
IL. Design Firm No. 184-001939	PLOT SCALE = $SCALE$	CHECKED -	REVISED -
	PLOT DATE = $DATE$	DATE -	REVISED -

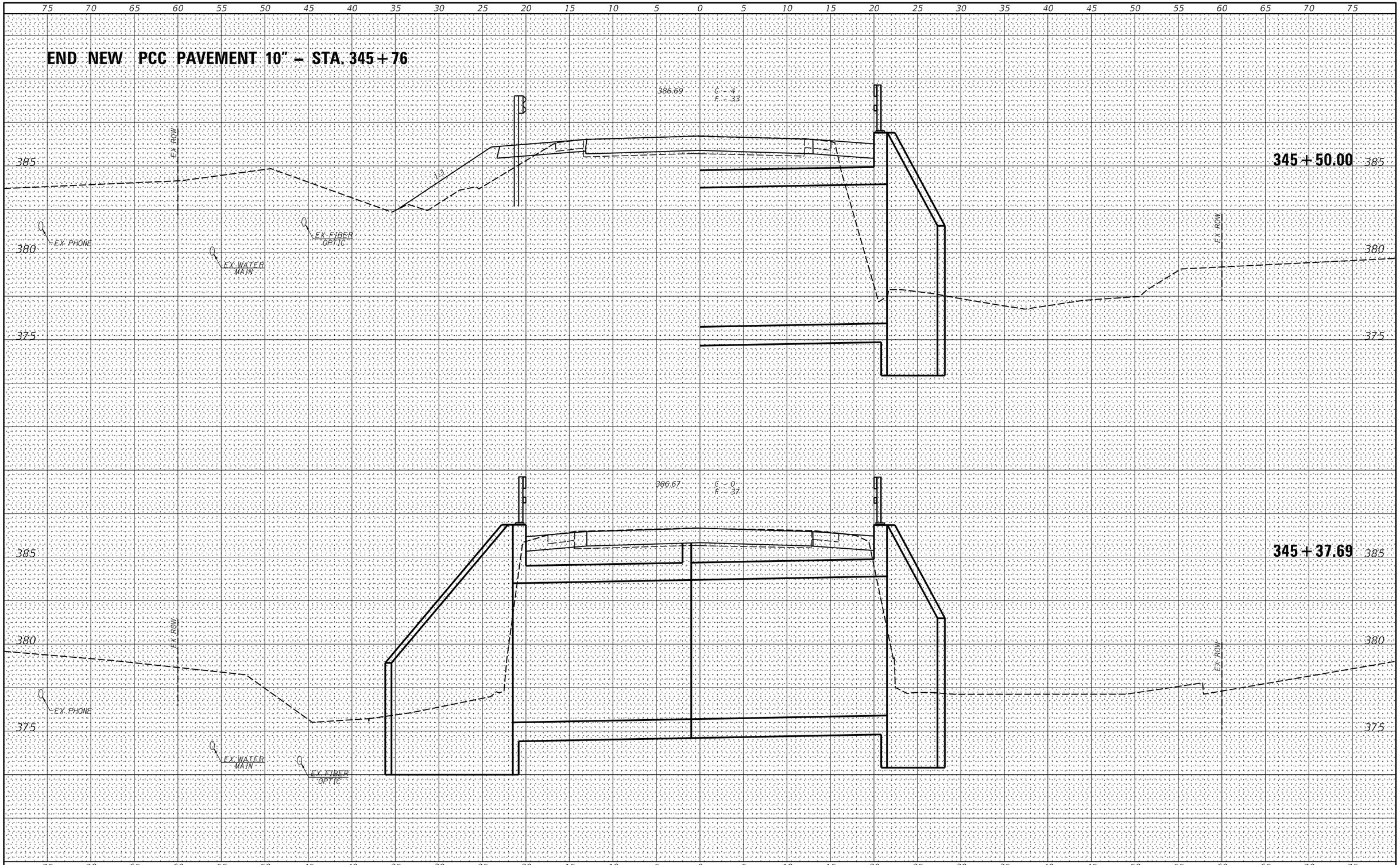
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS – SN 039–2034

SCALE: | SHEET NO. 2 OF 5 SHEETS | STA. 344+75.00 | TO STA. 345+25.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
312	123B-6	JACKSON	101	57
		CONTRACT NO. 78790		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

END NEW PCC PAVEMENT 10" – STA. 345+76



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

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

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

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

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS – SN 039–2034

SCALE: | SHEET NO. 3 OF 5 SHEETS | STA. 345+37.69 | TO STA. 345+50.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
312	123B-6	JACKSON	101	58
		CONTRACT NO. 78790		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

385 380

EX ROW

EX PHONE

EX FIBER OPTIC

EX WATER MAIN

C = 15
F = 5

1:3

346 + 50.00

C = 11
F = 5

346 + 25.00

C = 10
F = 7

346 + 00.00

C = 11
F = 10

345 + 75.00

END NEW PCC PAVEMENT 10" – STA. 346 + 75

C EX 15"Ø X 158'
CMP (TO REMAIN)

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

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

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

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

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS – SN 039–2034

SCALE: | SHEET NO. 4 OF 5 SHEETS | STA. 345+75.00 | TO STA. 346+50.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
312	123B-6	JACKSON	101	59
		CONTRACT NO. 78790		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

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

BY	DATE

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

BY	DATE

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

385

380

EX ROW

347 + 25.00

END SHOULDER IMPROVEMENT – STA. 347 + 20 LT. & RT.

C = 12
F = 8

1:4

EX ROW

347 + 00.00

EX FIBER OPTIC

EX WATER MAIN

EX ROW

346 + 79.00

C = 13
F = 6

1:4

EX ROW

346 + 75.00

EX PHONE

EX FIBER OPTIC

EX WATER MAIN

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

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

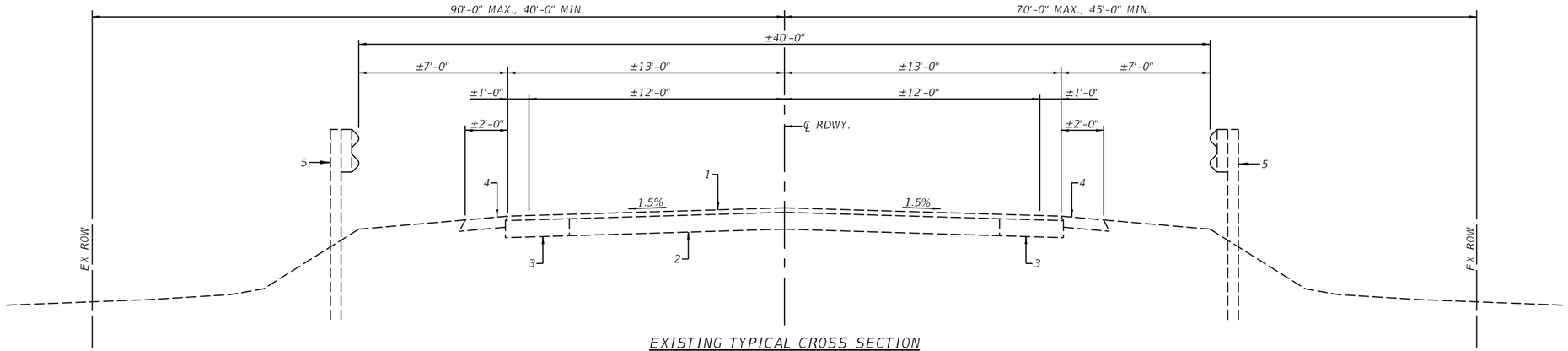
USER NAME = $USER$	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = $SCALE$	CHECKED -	REVISED -
PLOT DATE = $DATE$	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS – SN 039–2034

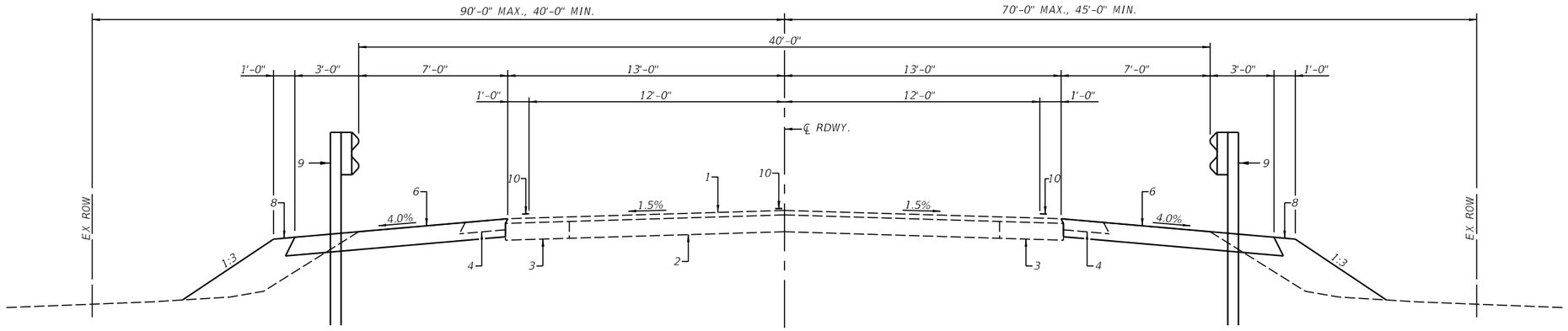
SCALE: | SHEET NO. 5 OF 5 SHEETS | STA. 346+75.00 | TO STA. 347+25.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
312	123B-6	JACKSON	101	60
		CONTRACT NO. 78790		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



EXISTING TYPICAL CROSS SECTION

STA. 251+00 TO STA. 254+97.5



PROPOSED TYPICAL CROSS SECTION

STA. 251+58.5 TO STA. 252+41.5 LT., STA. 252+98.5 TO STA. 254+06.2 LT. &
STA. 251+33.2 TO STA. 252+41.5 RT., STA. 252+98.5 TO STA. 253+81.2 RT.

PAVEMENT LEGEND

1 - EX HMA SURF CSE ±2½"
2 - EX PCC PAVEMENT ±9½"
3 - EX HMA BSE CSE WIDENING
4 - EX AGG SHOULDER
5 - EX GUARDRAIL
6 - PR HMA SHOULDER 10"
7 - PR PCC PAVEMENT 10" MIN.
8 - PR EARTH SHOULDER
9 - PR GUARDRAIL
10 - PR PAVEMENT MARKING - LINE 4"
11 - PR TEMP. PAVEMENT MARKING - LINE 4" - PAINT

MODEL: SMODELNAME$
FILE NAME: SFILE$

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

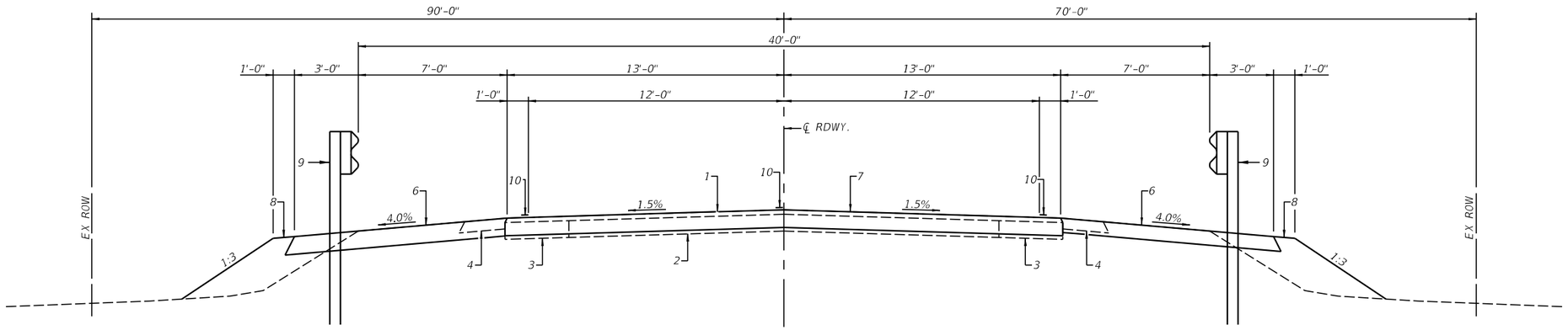
USER NAME = SUSER$	DESIGNED - _____	REVISED - _____
	DRAWN - _____	REVISED - _____
PLOT SCALE = SSCALE$	CHECKED - _____	REVISED - _____
PLOT DATE = SDATE$	DATE - _____	REVISED - _____

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROADWAY TYPICAL SECTIONS

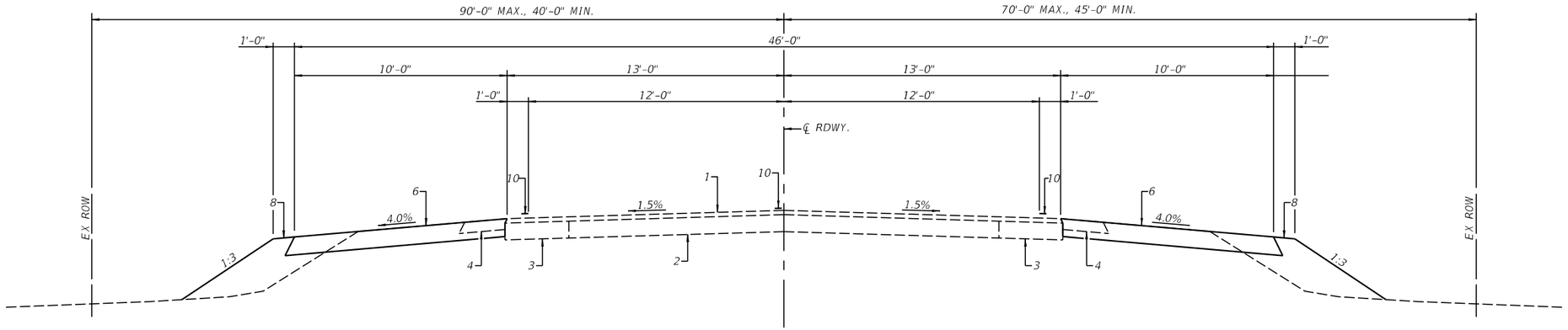
SCALE: _____ | SHEET __ OF __ SHEETS | STA. _____ | TO STA. _____

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
312	123B-7	JACKSON	101	61
		CONTRACT NO. 78790		
	ILLINOIS	FED. AID PROJECT		



PROPOSED TYPICAL CROSS SECTION

STA. 252+41.5 TO STA. 252+98.5



PROPOSED TYPICAL CROSS SECTION

STA. 251+00 TO STA. 251+58.5 LT., STA. 254+06.2 TO STA. 254+97.5 LT. &
STA. 251+00 TO STA. 251+33.2 RT., STA. 253+81.2 TO STA. 254+97.5 RT.

PAVEMENT LEGEND

1 - EX HMA SURF CSE ±2½"
2 - EX PCC PAVEMENT ±9½"
3 - EX HMA BSE CSE WIDENING
4 - EX AGG SHOULDER
5 - EX GUARDRAIL
6 - PR HMA SHOULDER 10"
7 - PR PCC PAVEMENT 10" MIN.
8 - PR EARTH SHOULDER
9 - PR GUARDRAIL
10 - PR PAVEMENT MARKING - LINE 4"
11 - PR TEMP. PAVEMENT MARKING - LINE 4" - PAINT

MODEL: $MODELNAME$
FILE NAME: $FILE$

Veenstra & Kimm, Inc.
Springfield, IL. Phone: (217)544-8033

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

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROADWAY TYPICAL SECTIONS

SCALE: _____ | SHEET __ OF __ SHEETS | STA. _____ | TO STA. _____

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
312	123B-7	JACKSON	101	62
		CONTRACT NO. 78790		
	ILLINOIS FED. AID PROJECT			

EARTHWORK

LOCATION	EARTH EXCAVATION	ADJUSTED SHRINKAGE FACTOR	EARTH EXCAVATION (ADJUSTED)	EMBANKMENT	EARTHWORK BALANCE		FURNISHED EXCAVATION	REMARKS
					EXCAVATION REQUIRED TO COMPLETE	EXCESS EXCAVATION		
	CU. YD.	%	CU. YD.	CU. YD.	CU. YD.	CU. YD.	CU. YD.	
STA. 251+00 TO STA. 254+97.5	510	25	382	640	258	0	258	
STA. 10+00 TO STA. 12+00 (PRIVATE ENTRANCE)	102	25	76	113	37	0	37	
TOTAL	612		458	753	295	0	295	

PERMANENT SEEDING

LOCATION	SEEDING CLASS 2A	NITROGEN FERTILIZER NUTRIENT	PHOSPHORUS FERTILIZER NUTRIENT	POTASSIUM FERTILIZER NUTRIENT	AGRICULTURAL GROUND LIMESTONE	MULCH METHOD 2
	ACRE	POUND	POUND	POUND	TON	ACRE
STA. 251+00 TO STA. 254+97.5 RT.	0.39	35	35	35	0.78	0.39
STA. 251+00 TO STA. 254+97.5 LT.	0.46	42	42	42	0.92	0.46
TOTAL	0.85	77	77	77	1.70	0.85
	USE 0.9 ACRE	USE 81 LBS.	USE 81 LBS.	USE 81 LBS.	USE 1.8 TON	USE 0.9 ACRE

PIPE CULVERT SCHEDULE

LOCATION	PIPE CULVERT REMOVAL	PIPE CULVERTS, CLASS D, TYPE 1 24"	PIPE CULVERTS, CLASS D, TYPE 1 30"	PIPE CULVERTS, CLASS C, TYPE 1 10"
	FOOT	FOOT	FOOT	FOOT
STA. 253+27.7 TO STA. 253+63.5 LT.	36			
STA. 252+88.7 TO STA. 253+43.8 RT.	56			
STA. 254+14 40' LT. TO STA. 254+78 35' LT.		64		
STA. 254+22 35' RT. TO STA. 253+19 48' RT			104	
STA. 253+18.5 50' RT. TO STA. 253+54.4 60' RT.				40
TOTAL	92	64	104	40

STEEL RAILING AND GUARDRAIL SCHEDULE

LOCATION	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	STEEL PLATE BEAM GUARDRAIL 6 FOOT POSTS	TRAFFIC BARRIER TERMINAL, TYPE 14	TERMINAL MARKER - DIRECT APPLIED	GUARDRAIL REMOVAL
	EACH	FOOT	EACH	EACH	FOOT
STA. 251+36.63 TO STA. 251+86.63 RT.	1				
STA. 251+86.63 TO STA. 252+36.63 RT.		50			
STA. 252+36.63 TO STA. 252+58.75 RT			1		
STA. 252+81.25 TO STA. 253+03.37 RT.			1		
STA. 253+03.37 TO STA. 253+53.37 RT.	1				
STA. 251+86.63 TO STA. 252+36.63 LT.	1				
STA. 252+36.63 TO STA. 252+58.75 LT.			1		
STA. 252+81.25 TO STA. 253+03.37 LT.			1		
STA. 253+03.37 TO STA. 253+53.37 LT.		50			
STA. 253+53.37 TO STA. 254+03.37 LT.	1				
STA. 251+36.63 RT.				1	
STA. 251+86.63 LT.				1	
STA. 253+53.37 RT.				1	
STA. 254+03.37 LT.				1	
STA. 252+22.7 TO STA. 253+10.3 RT.					102
STA. 252+35.6 TO STA. 253+22.7 LT.					101
TOTAL	4	100	4	4	203

70107025 CHANGEABLE MESSAGE SIGN

LOCATION	CHANGEABLE MESSAGE SIGN
	CAL. DAY
MESSAGE BOARD SOUTHEAST OF IL 3/151 INTERSECTION	90
MESSAGE BOARD NORTHWEST OF IL 3 AND RADDLE ROAD INTERSECTION	
(QUANTITY INCLUDED WITH SN 039-2034)	

END SECTION SCHEDULE

LOCATION	METAL FLARED END SECTIONS 24"	METAL FLARED END SECTIONS 30"
	EACH	EACH
STA. 254+14 40' LT	1	
STA. 254+78 35' LT	1	
STA. 253+19 48' RT		1
STA. 254+22 35' RT.		1
TOTAL	2	2

RELOCATE SIGN, (SPECIAL)

LOCATION	RELOCATE SIGN, (SPECIAL)
	EACH
RELOCATE EXISTING SIGNS TO:	
STA. 253+13 45' LT. (JAMES 'GENE' KORANDO POND SIGN)	1
STA. 253+15 45' LT. (JAMES 'GENE' KORANDO POND PLACARD)	1
STA. 253+15 47' LT. (JAMES 'GENE' KORANDO POND PLACARD)	1
TOTAL	3

REMOVE SIGN PANEL ASSEMBLY - TYPE B

LOCATION	REMOVE SIGN PANEL ASSEMBLY
	EACH
STA. 252+35.5 25' RT (BRIDGE WEIGHT LIMIT)	1
STA. 253+07.3 23' LT (BRIDGE WEIGHT LIMIT)	1
TOTAL	2

PAVEMENT MARKING REMOVAL - GRINDING

LOCATION	PAVEMENT MARKING REMOVAL - GRINDING
	SQ. FT.
EXISTING PAVEMENT MARKING	
STA. 249+67.7 TO STA. 255+31.5 LT.	169
STA. 249+55.0 TO STA. 255+85.5 CENTERLINE SKIP DASH	50
STA. 250+15.0 TO STA. 255+31.5 RT.	173
TOTAL	392

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

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

QUANTITY SCHEDULES

SCALE:_____ | SHEET NO. _ OF _ SHEETS | STA. _____ TO STA. _____

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
312	123B-7	JACKSON	101	63
		CONTRACT NO. 78790		
	ILLINOIS FED. AID PROJECT			

TEMPORARY CONCRETE BARRIER AND IMPACT ATTENUATORS

LOCATION	IMPACT ATTENUATORS, TEMPORARY (FULLY REDERECTIVE, NARROW), TEST LEVEL 3	TEMPORARY CONCRETE BARRIER	RELOCATE TEMPORARY CONCRETE BARRIER	IMPACT ATTENUATORS, RELOCATE (FULLY REDERECTIVE, NARROW), TEST LEVEL 3
	EACH	FOOT	FOOT	EACH
STA. 250+91.7 TO STA. 251+17.3 RT.	1			
STA. 251+17.3 TO STA. 253+29.5 (STAGE I)		212.5		
STA. 253+29.5 TO STA. 253+55.1 LT.	1			
STA. 250+91.7 TO STA. 251+17.3 LT.				1
STA. 251+17.3 TO STA. 253+29.5 (STAGE II)			212.5	
STA. 253+29.5 TO STA. 253+55.1 RT.				1
TOTAL	2	212.5	212.5	2

TEMPORARY EROSION CONTROL ITEMS

LOCATION	SEEDING, CLASS 7	TEMPORARY EROSION CONTROL SEEDING	PERIMETER EROSION BARRIER
	ACRE	POUND	FOOT
STA. 251+00 TO STA. 254+97.5 LT.	0.39	39	
STA. 251+00 TO STA. 254+97.5 RT. INCLUDES	0.46	46	
KORANDO TEMPORARY EASEMENT			
STA. 251+50 TO STA. 252+60 LT.			110
STA. 252+85 TO STA. 254+25 LT.			140
STA. 254+75 TO STA. 255+00 LT.			25
STA. 251+00 TO STA. 252+60 RT.			160
STA. 252+85 TO STA. 253+15 RT.			30
STA. 253+15 90' TO STA. 253+25 200' RT.			111
STA. 253+60 200' TO STA. 254+15 90' RT.			123
STA 254+15 TO STA. 254+50			35
STA. 254+50 90' TO STA. 254+50 70' RT.			20
STA 254+50 TO STA. 254+98 RT.			38
STA. 253+25 TO STA. 253+60 RT.			35
TOTAL	0.85	85	827
	USE 0.9 ACRE	USE 90 LBS.	

PAVEMENT REMOVAL

LOCATION	PAVEMENT REMOVAL
	SQ. YD.
STA. 252+41.5 TO STA. 252+98.5	165
TOTAL	165

PAINT PAVEMENT MARKING SCHEDULE

LOCATION	PAINT PAVEMENT MARKING - LINE 4"	
	30' SKIP 10' DASH (YELLOW)	EDGE LINE (WHITE)
	FOOT	FOOT
STA. 249+67.7 TO STA. 255+31.5 LT.		564
STA. 249+55.0 TO STA. 255+85.5 CL.	160	
STA. 250+15.0 TO STA. 255+31.5 RT.		517
SUBTOTAL	160	1081
TOTAL	1241	

PINNING TEMPORARY CONCRETE BARRIER

LOCATION	PINNING TEMPORARY CONCRETE BARRIER
	EACH
STAGE I	
STA. 252+17.0 TO STA. 252+29.5	1
STA. 252+29.5 TO STA. 252+42.0	2
STA. 252+42.0 TO STA. 253+04.5	15
STA. 253+04.5 TO STA. 253+17.0	2
STA. 253+17.0 TO STA. 253+29.5	1
STAGE II	
STA. 252+17.0 TO STA. 252+29.5	1
STA. 252+29.5 TO STA. 252+42.0	2
STA. 252+42.0 TO STA. 253+04.5	15
STA. 253+04.5 TO STA. 253+17.0	2
STA. 253+17.0 TO STA. 253+29.5	1
TOTAL	42

70106700 TEMPORARY RUMBLE STRIPS

LOCATION	TEMPORARY RUMBLE STRIPS
	EACH
STA. 233+55.0 RT.	1
STA. 238+55.0 RT.	1
STA. 243+55.0 RT.	1
STA. 262+85.5 LT.	1
STA. 267+85.5 LT.	1
STA. 272+85.5 LT.	1
TOTAL	6

TEMPORARY BRIDGE TRAFFIC SIGNALS

LOCATION	TEMPORARY BRIDGE TRAFFIC SIGNALS
	EACH
STA. 250+05.0 18.4' RT.	0.2
STA. 250+30.0 20.5' LT.	0.2
STA. 254+00.0 26.3' LT.	0.2
STA. 255+10.5 18.9' RT.	0.2
STA. 255+33.5 17.8' LT.	0.2
TOTAL	1

STONE RIPRAP, CLASS A4

LOCATION	STONE RIPRAP, CLASS A4
	TON
STA. 252+92 TO STA 253+25 LT. IN DITCH	20
STA. 253+00 TO STA 253+20 RT. IN DITCH	12
TOTAL	32

HOT-MIX ASPHALT SHOULDERS 10"

LOCATION	HOT-MIX ASPHALT SHOULDERS 10"	BITUMINOUS MAT'LS. TACK COAT*
	SQ. YD.	POUND
STAGE I		
STA. 251+00 TO STA. 252+35 LT.	150	68
STA. 252+35 TO STA. 253+10 LT.	59	27
STA. 253+10 TO STA 254+97.5 LT.	209	94
STAGE II		
STA. 251+00 TO STA. 254+97.5 RT.	423	199
STA. 252+35 TO STA. 253+10 LT.	25	12
TOTAL	866	400

* TWO APPLICATIONS

PORTLAND CEMENT CONCRETE SCHEDULE

LOCATION	PORTLAND CEMENT CONCRETE PAVEMENT 10"	WELDED WIRE REINFORCEMENT
	SQ. YD.	SQ. YD.
STA. 252+41.5 TO STA. 252+98.5	165	165
TOTAL	165	165

AGGREGATE SURFACE

LOCATION	AGGREGATE SURFACE COURSE, TYPE B
	TON
F.E. STA. 251+40 LT.	40
P.E. STA. 254+00 RT.	106
C.E. STA. 254+50 LT.	93
TOTAL	239

PLAN
SURVEYED
PLOTTED
DRAWN
CHECKED
NOTE BOOK
NO.
BY
DATE
ALIGNMENT CHECKED
RT. OF WAY CHECKED
CADD FILE NAME

SECTION 33 T. 8 S., R. 4 W., 3rd PM

KENNETH BUNSELMEYER & JANE SWINNEY
07-33-200-03

HEINS FARM INC.
07-33-200-010

MATTHEW J KORANDO
07-33-200-011

MATTHEW J KORANDO
07-33-200-009

N

TALBOT HOLLOW

FLOW

EX 15"∅ x 36' CMP (TBR)

℄ NEW 24"∅ X 64' PIPE CULVERTS, CLASS D, TYPE 1 W/ METAL FLARED END SECTIONS
℄ INLET - EL. 369.0
STA. 254+78 35' LT.
℄ OUTLET - EL. 366.9
STA. 254+14 40' RT.

PROJECT ENDS STA. 254+97.50

EX ROW

CONST LIM

PROJECT BEGINS STA. 251+00
℄ STA. 252+70
REINFORCED CONCRETE BOX CULVERT DOUBLE 10' x 10' x 48'-0". 0° SKEW

EX 24"∅ x 56' CMP (TBR)

EXTEND EX. HDPE PIPE 10"∅ x 40'-0"

EX CORRUGATED 10" DOUBLE WALL HIGH DENSITY POLYETHYLENE PIPE

TMP ESMT

INSTALL NEW 30"∅ x 104' PIPE CULVERTS, CLASS D, TYPE 1 W/ METAL FLARED END SECTIONS 30"
℄ INLET - EL. 367.8
STA. 254+22 35' RT.
℄ OUTLET - EL. 366.00
STA. 253+19 48' RT.

253+50.5
189.5'

246 247 248 249 250 251 252 253 254 255 256 257 258 259 260+00

PLAN

0 25 50
SCALE: 1" = 50'

PROFILE
SURVEYED
PLOTTED
DRAWN
CHECKED
NOTE BOOK
NO.
BY
DATE
BAR. NOTED
STRUCTURE NO(A)TN'S CHKD

70.00' V.C.
ex = 0.13'
K = 47

POT STA. 10+15.00
ELEV. 372.09
VPC STA. 10+35.00
ELEV. 371.79
-1.50%
VPI STA. 10+70.00
TAN. ELEV. 371.26
VPI STA. 11+05.06
ELEV. 371.26
+0.00%
POT STA. 12+00.06
ELEV. 371.26

℄ EX RDWY

BEGIN NEW PCC PAVEMENT STA. 252+41.5 - EL. 371.78
END NEW PCC PAVEMENT STA. 252+98.5 - EL. 371.82
+0.07%

US INV. EL. 359.4
DS INV. EL. 359.2

PROFILE - P.E.

10+00	11+00	12+00
372.31	371.27	371.06
	371.59	371.27
		370.72
		371.26
		371.26
		371.26

395 390 385 380 375 370 365 360 355

246+00	247+00	248+00	249+00	250+00	251+00	252+00	253+00	254+00	255+00	256+00	257+00	258+00	259+00	260+00
371.72	371.63	371.64	371.69	371.79	371.81	371.81	371.78	371.75	371.79	371.69	371.68	371.69	371.78	371.82	372.03	372.31	372.66	373.10	373.62	374.14	374.65	375.13	375.77	376.49	377.45	378.50	379.67	380.89	382.19

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PLOT DATE = $DATE$	CHECKED -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

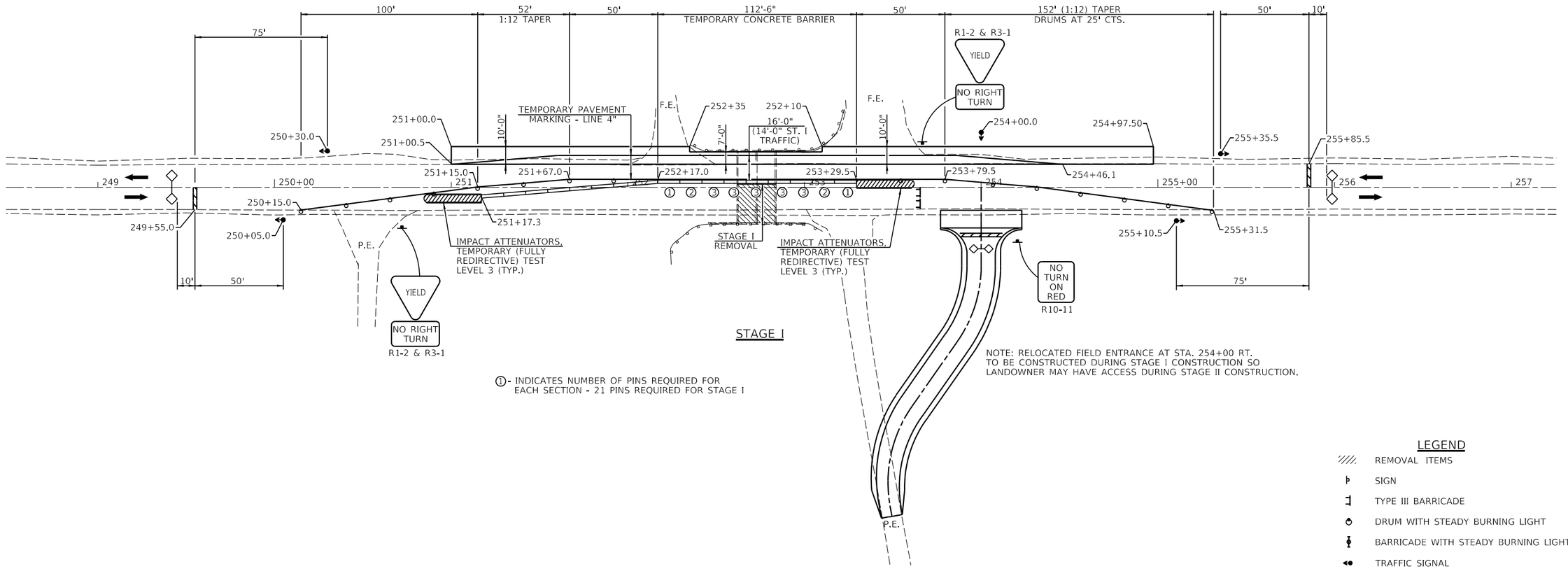
PLAN & PROFILE SN 039-2035

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
312	123B-7	JACKSON	101	65
			CONTRACT NO. 78790	
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

GENERAL NOTES

1. TRAFFIC CONTROL SHALL BE ERECTED AS SHOWN ACCORDING TO "TRAFFIC CONTROL & PROTECTION, STANDARD 701321.
2. SEE SPECIAL PROVISIONS FOR ADDITIONAL TRAFFIC CONTROL REQUIREMENTS.
3. COORDINATE LOCATION OF SIGNALS WITH FINAL WORK AS DIRECTED BY THE ENGINEER.
4. ADDITIONAL SIGNAGE FOR ENTRANCES AND ADVANCE WIDTH RESTRICTION WARNING SHALL BE INCLUDED IN THE COST OF STANDARD 701321.
5. THE DIMENSION SHOWN ON THE WIDTH RESTRICTION SIGN (W12-I10210-48) SHOWN ON STANDARD 701321 AND ON THE ADVANCE WARNING SIGN (W12-I103) SHOWN ON THE STAGE 2 PLAN SHEET FOR THIS STRUCTURE SHALL BE 14'-0" FOR STAGE 1 CONSTRUCTION.
6. SEE STD 701321 FOR COMPLETION OF STAGE CONSTRUCTION SIGNING AND ADVANCE DETECTOR LOOP PLACEMENT NOT SHOWN.
7. THE ADVANCE DETECTOR LOOPS ARE TYPICALLY LOCATED 275 FEET IN ADVANCE OF THE STOP BAR. THE BUREAU OF OPERATIONS SHALL APPROVE THE LOOP LOCATIONS PRIOR TO INSTALLATION.
8. THE CENTERLINE PAVEMENT MARKING SHALL BE REMOVED FROM THE STOP BAR TO THE SAND ATTENUATORS OR DRUMS. EDGE LINE PAVEMENT MARKING SHALL BE REMOVED IF A 10 FOOT LANE WIDTH CANNOT BE MAINTAINED. TEMPORARY EDGE LINES SHALL BE INSTALLED WHEN THE EDGE LINES ARE REMOVED.
9. VERTICAL PANELS SHOWN ON STANDARD 701321 WILL NOT BE REQUIRED ON THE STAGE 2 NEW CO-10 RAIL. THE BARRIER WALL REFLECTORS SHALL BE INSTALLED PRIOR TO OPENING TO TRAFFIC.
10. ANY TIME THE CONCRETE BARRIER IS NOT IN THE PROPER POSITION, FLAGGERS SHALL BE IN PLACE TO CONTROL TRAFFIC AND THE TEMPORARY TRAFFIC SIGNALS SHALL BE TURNED OFF OR COVERED.
11. ALL TRAFFIC SIGNALS SHOWN ARE INCLUDED IN TEMPORARY BRIDGE TRAFFIC SIGNALS - 1 EACH.
12. THE ADDITIONAL DETECTOR LOOPS AT THE ENTRANCE ARE INCLUDED IN TEMPORARY BRIDGE TRAFFIC SIGNALS - 1 EACH AND SHALL BE PHASED WITH MAINLINE SIGNALS.
13. TEMPORARY BRIDGE TRAFFIC SIGNALS SHALL BE A 3-PHASE SIGNAL, WITH ACTUATION FOR THE PRIVATE ENTRANCE AT STA. 254+00 RT.
14. TEMPORARY PAVEMENT MARKING SHOWN ON THE DETAIL, THE COSTOF THE TEMPORARY PAVEMENT MARKING AND ITS REMOVAL WILL BE INCLUDED IN THE COST OF STANDARD 701321.



① - INDICATES NUMBER OF PINS REQUIRED FOR EACH SECTION - 21 PINS REQUIRED FOR STAGE I

PLAN

0 30 60

SCALE: 1" = 30'

LEGEND

- REMOVAL ITEMS
- SIGN
- TYPE III BARRICADE
- DRUM WITH STEADY BURNING LIGHT
- BARRICADE WITH STEADY BURNING LIGHT
- TRAFFIC SIGNAL
- INDUCTION LOOP DETECTOR
- DOUBLE VERTICAL PANEL
- TYPE C BIDIRECTIONAL REFLECTOR
- TEMPORARY CONCRETE BARRIER
- IMPACT ATTENUATOR
- STEADY BURNING LIGHTS AND DOUBLE VERTICAL PANELS

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

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

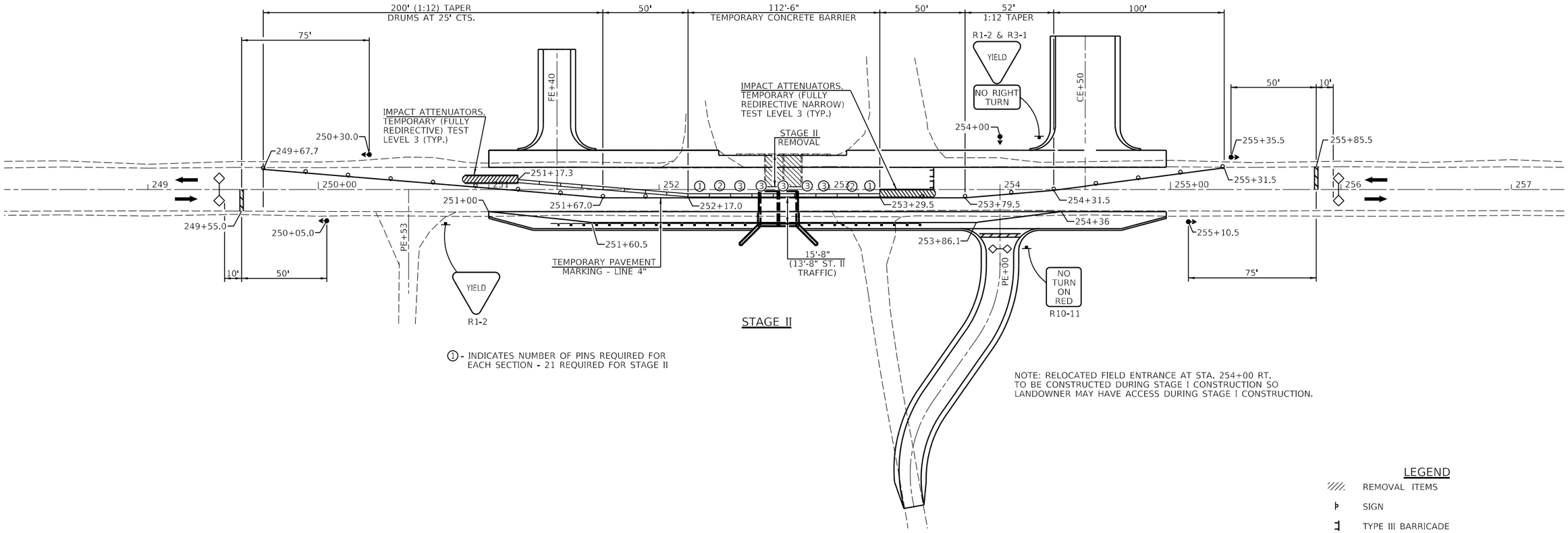
STAGE I CONSTRUCTION PLAN

SCALE: 1"=30' | SHEET NO. 1 OF 1 SHEETS | STA. _____ TO STA. _____

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
312	123B-7	JACKSON	101	66
		CONTRACT NO. 78790		
		ILLINOIS	FED. AID PROJECT	

GENERAL NOTES

1. TRAFFIC CONTROL SHALL BE ERECTED AS SHOWN ACCORDING TO "TRAFFIC CONTROL & PROTECTION, STANDARD 701321.
2. SEE SPECIAL PROVISIONS FOR ADDITIONAL TRAFFIC CONTROL REQUIREMENTS
3. COORDINATE LOCATION OF SIGNALS WITH FINAL WORK AS DIRECTED BY THE ENGINEER.
4. ADDITIONAL SIGNAGE FOR ENTRANCES AND ADVANCE WIDTH RESTRICTION WARNING SHALL BE INCLUDED IN THE COST OF STANDARD 701321.
5. THE DIMENSION SHOWN ON THE WIDTH RESTRICTION SIGN (W12-I10210)-48) SHOWN ON STANDARD 701321 AND ON THE ADVANCE WARNING SIGN (W12-I103) SHOWN ON THE STAGE 2 PLAN SHEET FOR THIS STRUCTURE SHALL BE 13'-8" FOR STAGE 2 CONSTRUCTION.
6. SEE STD 701321 FOR COMPLETION OF STAGE CONSTRUCTION SIGNING AND ADVANCE DETECTOR LOOP PLACEMENT NOT SHOWN.
7. THE ADVANCE DETECTOR LOOPS ARE TYPICALLY LOCATED 275 FEET IN ADVANCE OF THE STOP BAR. THE BUREAU OF OPERATIONS SHOULD APPROVE THE LOOP LOCATIONS PRIOR TO INSTALLATION.
8. THE CENTERLINE PAVEMENT MARKING SHALL BE REMOVED FROM THE STOP BAR TO THE SAND ATTENUATORS OR DRUMS. EDGE LINE PAVEMENT MARKING SHALL BE REMOVED IF A 10 FOOT LANE WIDTH CANNOT BE MAINTAINED. TEMPORARY EDGE LINES SHALL BE INSTALLED WHEN THE EDGE LINES ARE REMOVED.
9. VERTICAL PANELS SHOWN ON STANDARD 701321 WILL NOT BE REQUIRED ON THE STAGE 2 NEW CO-10 RAIL. THE BARRIER WALL REFLECTORS SHALL BE INSTALLED PRIOR TO OPENING TO TRAFFIC.
10. ANY TIME THE CONCRETE BARRIER IS NOT IN THE PROPER POSITION, FLAGGERS SHALL BE IN PLACE TO CONTROL TRAFFIC AND THE TEMPORARY TRAFFIC SIGNALS SHALL BE TURNED OFF OR COVERED.
11. ALL TRAFFIC SIGNALS SHOWN ARE INCLUDED IN TEMPORARY BRIDGE TRAFFIC SIGNALS - 1 EACH.
12. THE ADDITIONAL DETECTOR LOOPS AT THE ENTRANCE ARE INCLUDED IN TEMPORARY BRIDGE TRAFFIC SIGNALS - 1 EACH AND SHALL BE PHASED WITH MAINLINE SIGNALS.
13. TEMPORARY BRIDGE TRAFFIC SIGNALS SHALL BE A 3-PHASE SIGNAL, WITH ACTUATION FOR THE PRIVATE ENTRANCE AT STA. 254+00 RT.
14. TEMPORARY PAVEMENT MARKING SHOWN ON THE DETAIL, THE COSTOF THE TEMPORARY PAVEMENT MARKING AND ITS REMOVAL WILL BE INCLUDED IN THE COST OF STANDARD 701321.



① - INDICATES NUMBER OF PINS REQUIRED FOR EACH SECTION - 21 REQUIRED FOR STAGE II

STAGE II

NOTE: RELOCATED FIELD ENTRANCE AT STA. 254+00 RT. TO BE CONSTRUCTED DURING STAGE I CONSTRUCTION SO LANDOWNER MAY HAVE ACCESS DURING STAGE I CONSTRUCTION.

PLAN

0 30 60

SCALE: 1" = 30'

LEGEND

- REMOVAL ITEMS
- SIGN
- TYPE III BARRICADE
- DRUM WITH STEADY BURNING LIGHT
- BARRICADE WITH STEADY BURNING LIGHT
- TRAFFIC SIGNAL
- INDUCTION LOOP DETECTOR
- DOUBLE VERTICAL PANEL
- TYPE C BIDIRECTIONAL REFLECTOR
- TEMPORARY CONCRETE BARRIER
- IMPACT ATTENUATOR
- STEADY BURNING LIGHTS AND DOUBLE VERTICAL PANELS

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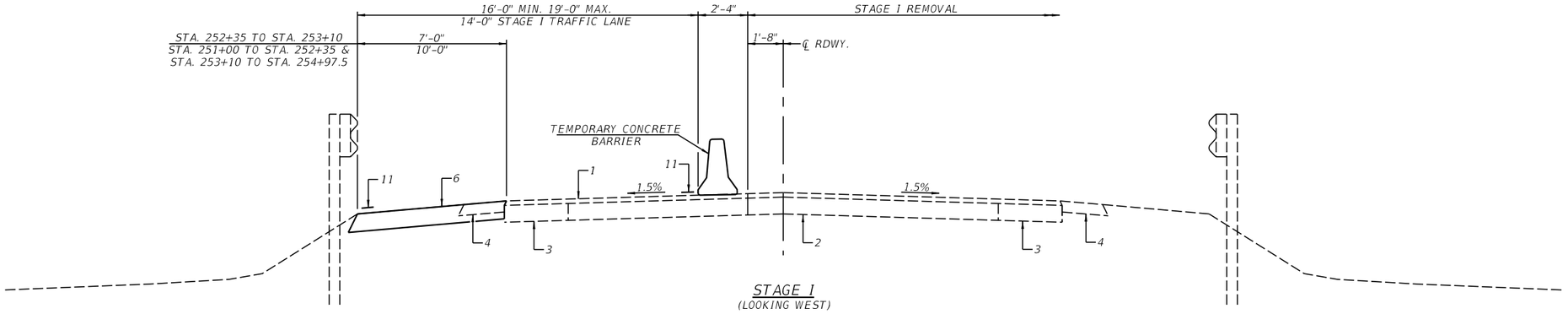
PLOT SCALE = ___	DRAWN - ___	REVISED - ___
PLOT DATE = ___	CHECKED - ___	REVISED - ___

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

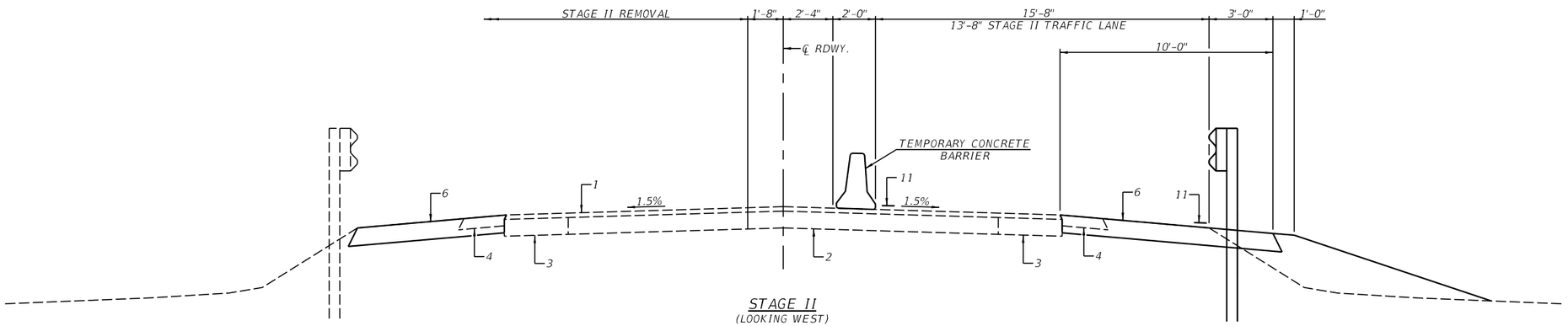
STAGE II CONSTRUCTION PLAN

SCALE: 1"=30' | SHEET NO. 1 OF 1 SHEETS | STA. _____ TO STA. _____

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
312	123B-7	JACKSON	101	67
		CONTRACT NO. 78790		
	ILLINOIS FED. AID PROJECT			



STAGE I
(LOOKING WEST)



STAGE II
(LOOKING WEST)

PAVEMENT LEGEND

1 - EX HMA SURF CSE ±2½"
2 - EX PCC PAVEMENT ±9½"
3 - EX HMA BSE CSE WIDENING
4 - EX AGG SHOULDER
5 - EX GUARDRAIL
6 - PR HMA SHOULDER 10"
7 - PR PCC PAVEMENT 10" MIN.
8 - PR EARTH SHOULDER
9 - PR GUARDRAIL
10 - PR PAVEMENT MARKING - LINE 4"
11 - PR TEMP. PAVEMENT MARKING - LINE 4"

MODEL: $MODELNAME$
FILE NAME: $FILE$

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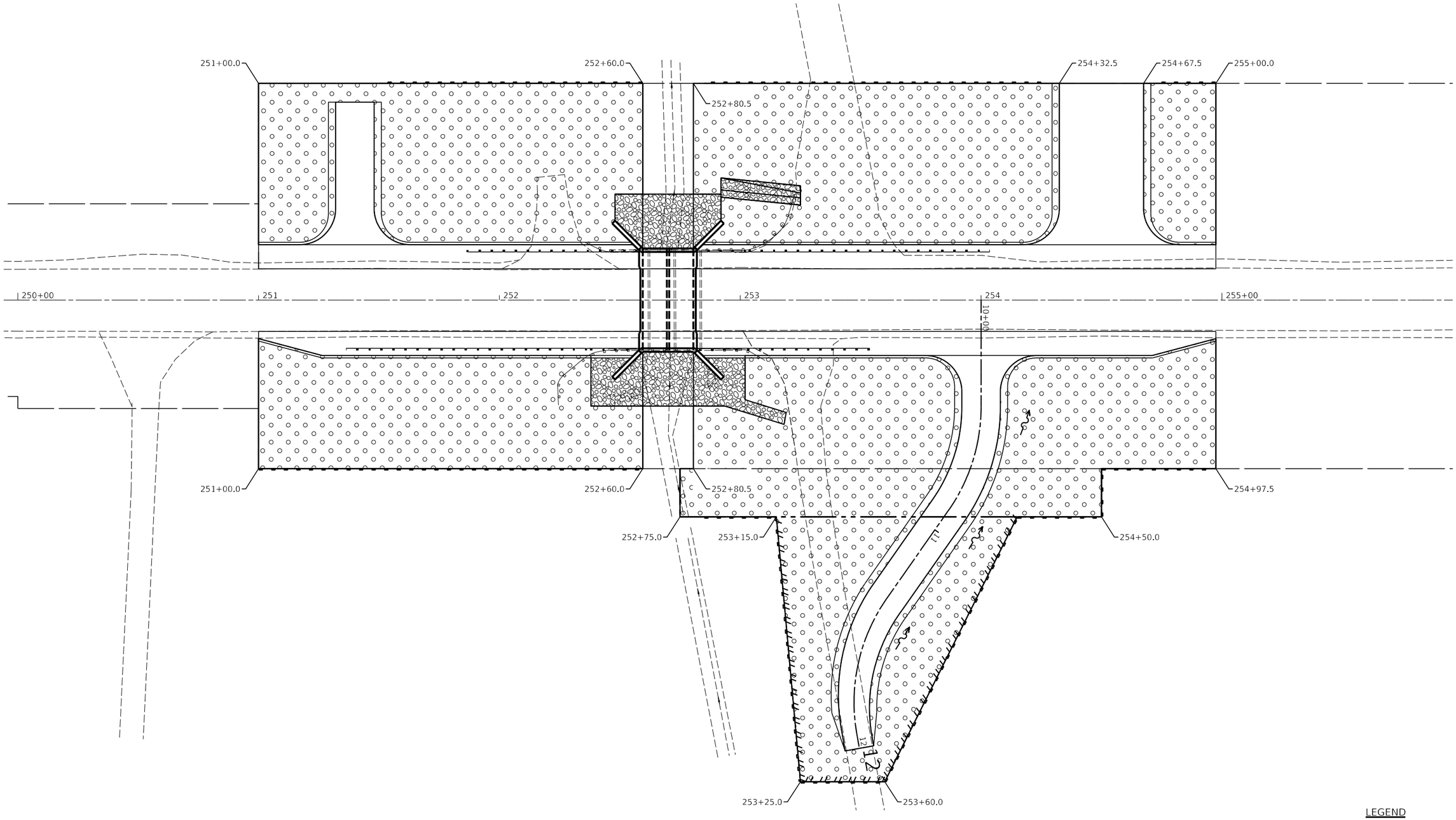
USER NAME = $USER$	DESIGNED - _____	REVISED - _____
	DRAWN - _____	REVISED - _____
PLOT SCALE = $SCALE$	CHECKED - _____	REVISED - _____
PLOT DATE = $DATE$	DATE - _____	REVISED - _____

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STAGING TYPICAL SECTIONS

SCALE: _____ | SHEET __ OF __ SHEETS | STA. _____ | TO STA. _____

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
312	123B-7	JACKSON	101	68
		CONTRACT NO. 78790		
	ILLINOIS	FED. AID PROJECT		



PLAN

0 20 40

SCALE: 1" = 20'

LEGEND

- SEEDING, CLASS 2A & 7
- PERIMETER EROSION BARRIER
- TEMPORARY DITCH CHECK
- INLET PIPE PROTECTION
- TEMPORARY CONSTRUCTION FENCE

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

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

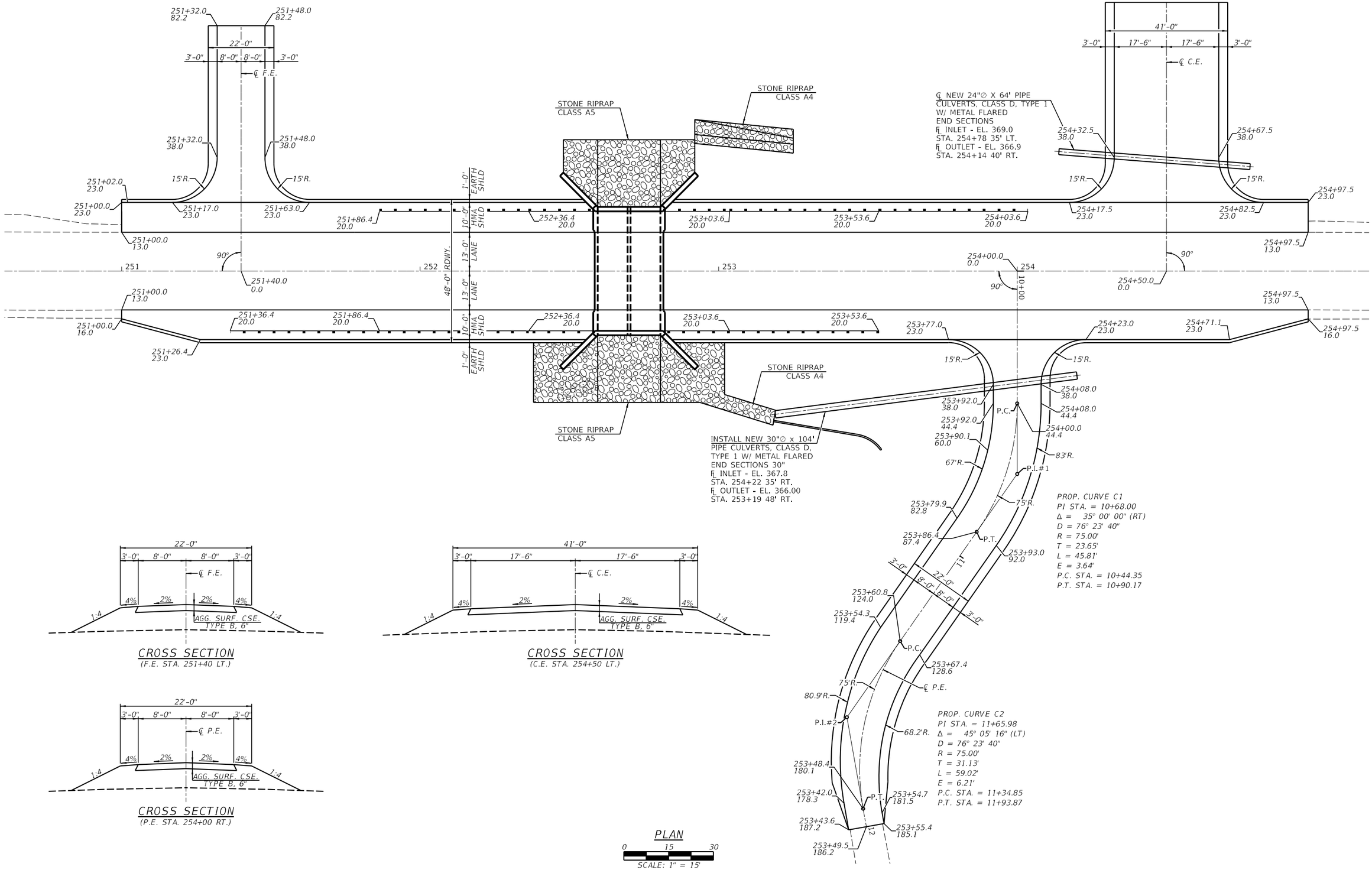
EROSION CONTROL PLAN

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
312	123B-7	JACKSON	101	69

CONTRACT NO. 78790

ILLINOIS | FED. AID PROJECT



VEENSTRA & KIMM INC.	USER NAME = ___	DESIGNED - ___	REVISED - ___
Springfield, IL. Phone: (217)544-8033		CHECKED - ___	REVISED - ___
IL. Design Firm No. 184-001939	PLOT SCALE = ___	DRAWN - ___	REVISED - ___
	PLOT DATE = ___	CHECKED - ___	REVISED - ___

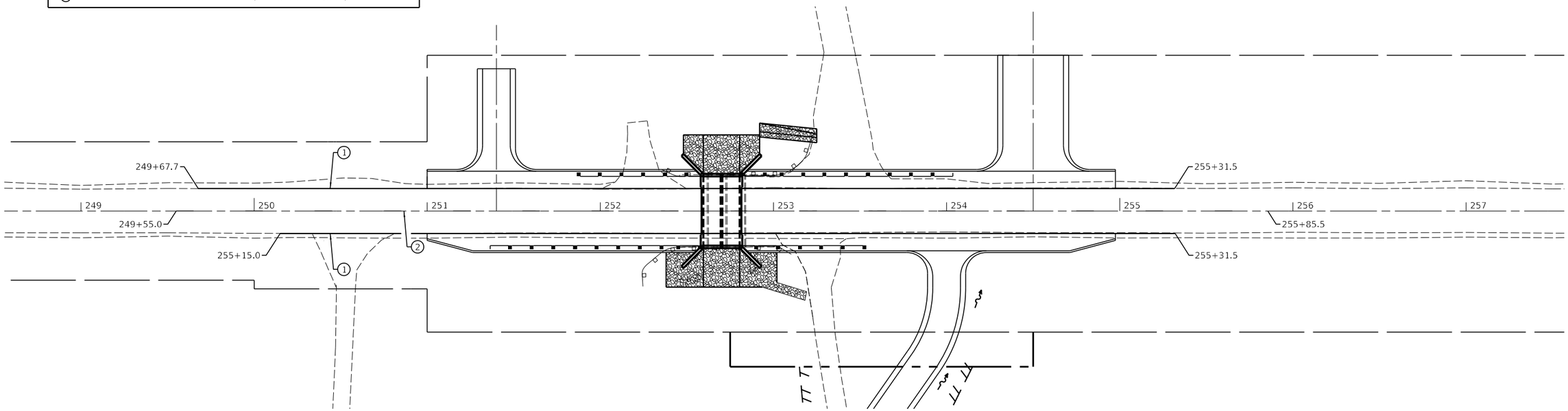
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROADWAY DETAILS

SCALE: 1" = 15' | SHEET NO. __ OF __ SHEETS | STA. _____ TO STA. _____

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
312	123B-7	JACKSON	101	70
		CONTRACT NO. 78790		
	ILLINOIS FED. AID PROJECT			

LEGEND
① - PAINT PAVEMENT MARKING - LINE 4" (WHITE)
② - PAINT PAVEMENT MARKING - LINE 4" (YELLOW SKIP DASH)



PLAN

0 30 60

SCALE: 1" = 30'

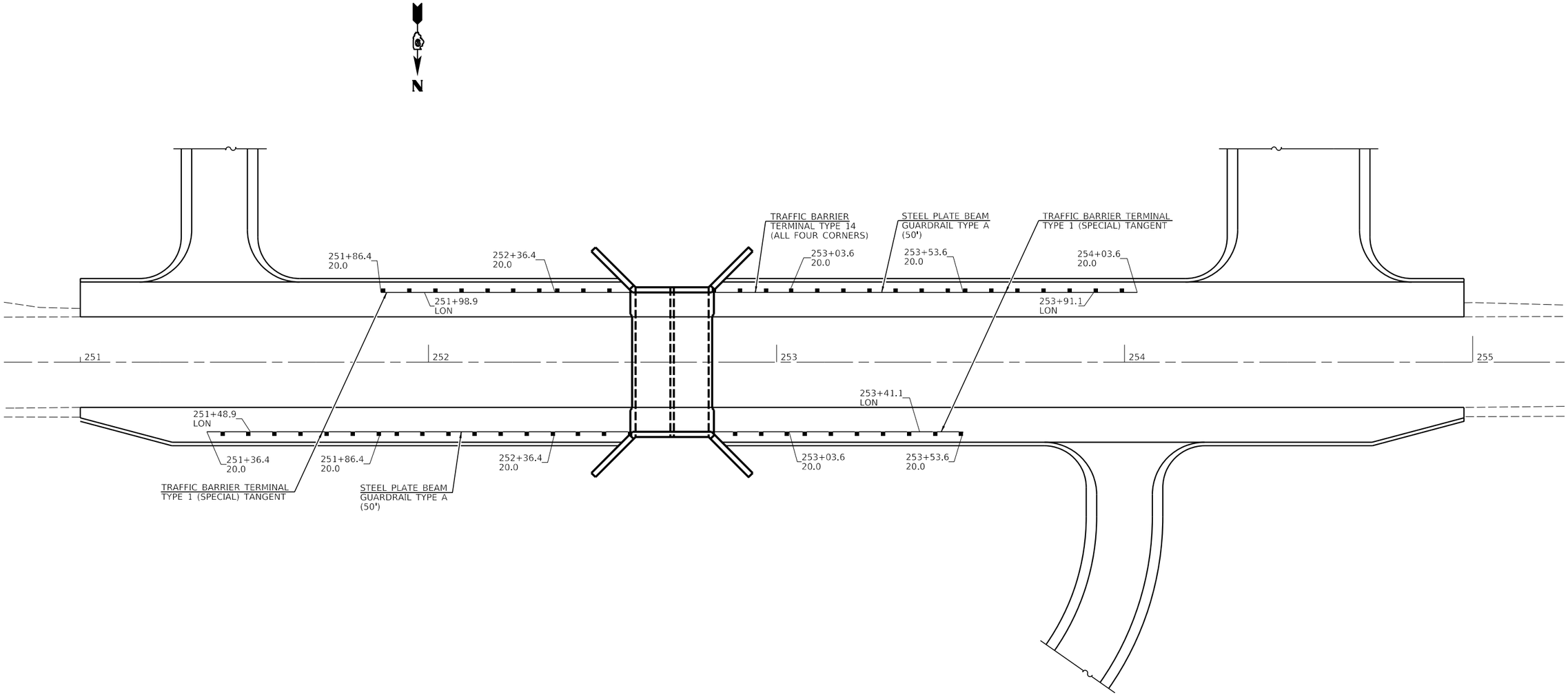
VEENSTRA & KIMM INC. Springfield, IL. Phone: (217)544-8033 IL. Design Firm No. 184-001939	USER NAME =	DESIGNED -	REVISED -
		CHECKED -	REVISED -
	PLOT SCALE =	DRAWN -	REVISED -
	PLOT DATE =	CHECKED -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING PLAN

SCALE: 1"=30' | SHEET NO. 1 OF 1 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
312	123B-7	JACKSON	101	71
		CONTRACT NO. 78790		
	ILLINOIS FED. AID PROJECT			



PLAN

0 15 30

SCALE: 1" = 15'

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

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

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GUARDRAIL PLAN

SCALE: 1"=15' | SHEET NO. 1 OF 1 SHEETS | STA. _____ TO STA. _____

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
312	123B-7	JACKSON	101	72
		CONTRACT NO. 78790		
	ILLINOIS	FED. AID PROJECT		

ALIGNMENT INFO
FAP 312 (IL 3)

POINT#	STATION	NORTHING	EASTING
IL31	226+00.00	409433.61	2477201.06
P.C.3	26464.16	410774.41	2473576.97

COORDINATE DATA

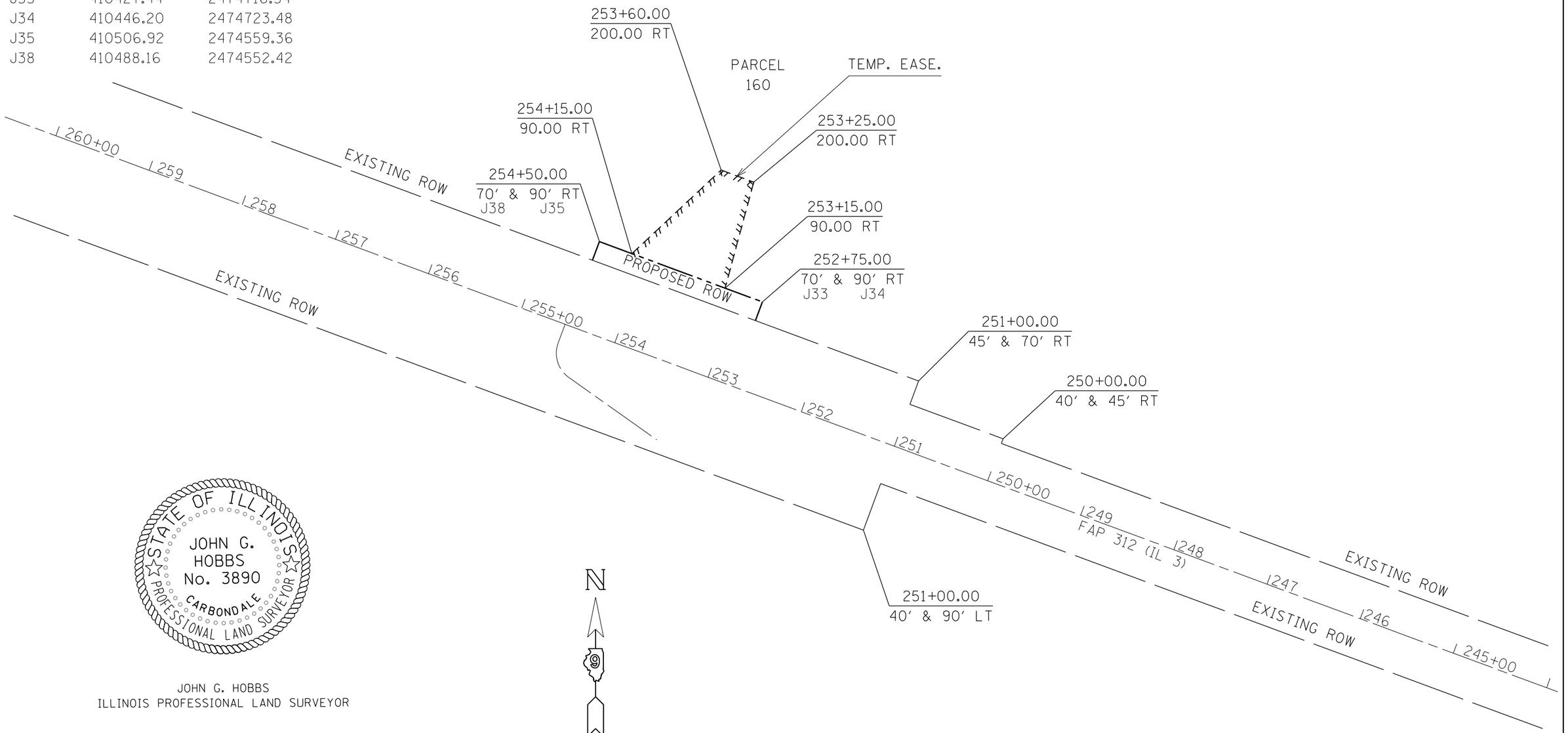
PT#	NORTHING	EASTING
J33	410427.44	2474716.54
J34	410446.20	2474723.48
J35	410506.92	2474559.36
J38	410488.16	2474552.42

PARCEL#	PROPERTY OWNER	PURPOSE	ACREAGE
160	MATTHEW J. KORANDO	ROW/TE	0.080/0.171 ACRES±

NE QUARTER

SECTION 33

T. 8 S., R. 4 W., 3RD P.M.



JOHN G. HOBBS
ILLINOIS PROFESSIONAL LAND SURVEYOR

Current license expires 11/2022.

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

COORDINATES BASED ON WGS 84
97 ADJUSTMENT, ILLINOIS WEST ZONE

USER NAME = Ehren.Kirby	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 3/24/2023	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

RIGHT OF WAY SHEET
SN 039-2015 FAP 312(IL 3)

SCALE: 1" = 100' | SHEET 1 OF 2 SHEETS | STA. 245+00.00 | TO STA. 260+00.00

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
312	123B-5; B-6; B-7	JACKSON	101	73
		CONTRACT NO. 78790		
R-99-014-20	ILLINOIS	FED. AID PROJECT		

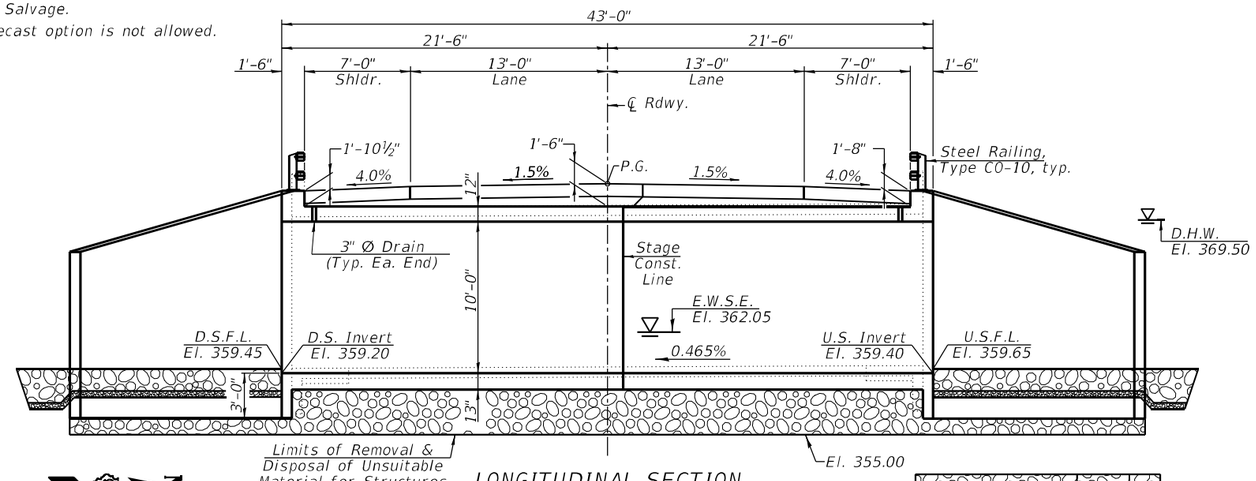
MODEL: Default
FILE NAME: pw:\\dot-pw.bentley.com:PWDOT\Documents\IDOT Offices\District 9\Projects\78790\CADD\data\CAD\sheets\09xxxxx-SHT-ROW.dgn

B.M. 1001 Chiseled "□" on top of Northeast headwall of SN 039-2015 along IL Route 3. Elev. 371.801

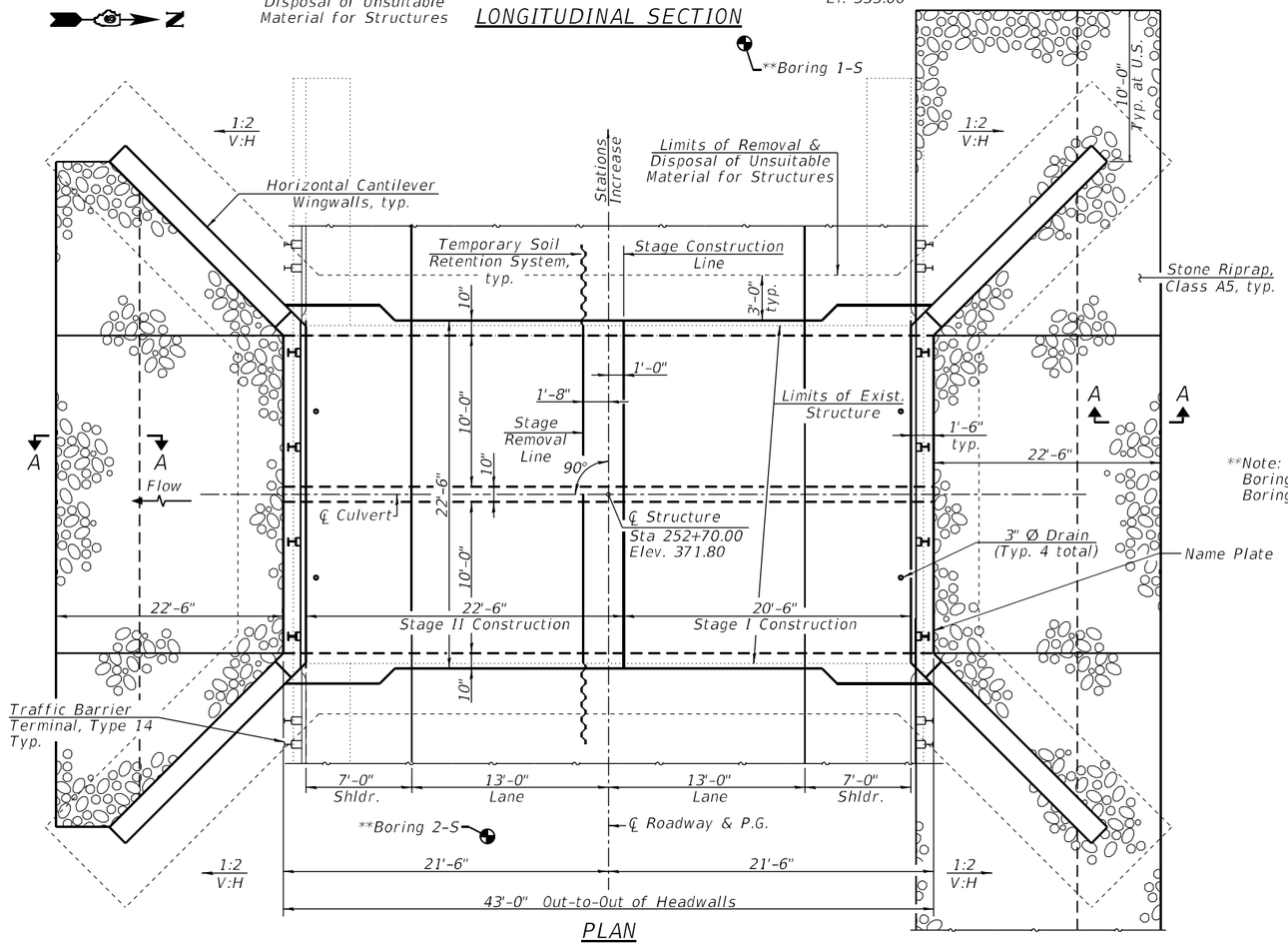
Existing Structure: S.N. 039-2015 originally built under SBI Route 150 under Section 123 in 1933. The structure is a double barrel reinforced concrete box culvert (10'-0"x10'-0") 41'-8" out-out of headwalls and along centerline of culvert. Traffic to be maintained utilizing Stage Construction.

No Salvage.

Precast option is not allowed.



LONGITUDINAL SECTION



PLAN

**Note: Borings are not displayed in their correct locations.
Boring 1-S is located 9.0' Rt. of Sta. 252+09
Boring 2-S is located 8.0' Lt. of Sta. 252+40

INDEX OF SHEETS

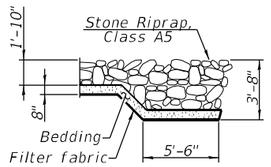
WATERWAY INFORMATION

Drainage Area = 1.2 Sq. Mi.

Exist. Overtopping Elev. = 371.68 @ Sta. 251+50
Prop. Overtopping Elev. = 371.68 @ Sta. 251+50

Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft. Exist.	Opening Sq. Ft. Prop.	Nat. H.W.E.	Head - Ft. Exist.	Head - Ft. Prop.	Headwater El. Exist.	Headwater El. Prop.
	10	850	172	194	369.4	0.0	0.0	369.4	369.4
Design	50	1,450	174	196	369.5	1.6	0.5	371.1	370.0
Base	100	1,750	174	196	369.5	2.3	1.6	371.8	371.1
Max. Calc.	500	2,480	174	196	369.5	2.7	2.5	372.2	372.0

10 Yr. Outlet Velocity through Exist. Structure = 4.9 ft/s
10 Yr. Outlet Velocity through Prop. Structure = 4.4 ft/s

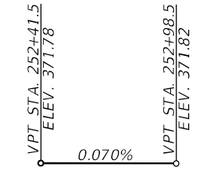


SECTION A-A

STATION 252+70.00
BUILT 20 BY
STATE OF ILLINOIS
F.A.P. RTE. 312 SEC. 123B-7
LOADING HL-93
STR. NO. 039-2035

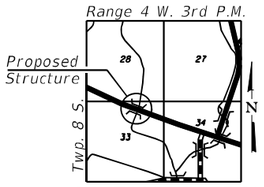
NAME PLATE

(Std. 515001)



PROFILE GRADE

(Along ℄ IL Rte. 3)



LOCATION SKETCH

LOADING HL-93

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

DESIGN SPECIFICATIONS

2020 AASHTO LRFD Bridge Design Specifications, 9th Edition

DESIGN STRESSES

FIELD UNITS
f'c = 3,500 psi
f'c = 4,500 psi (Top Slab & Headwalls)
fy = 60,000 psi (Reinforcement)

LICENSED STRUCTURAL ENGINEER ★ ADAM D. BOHNHOFF 081-007431 ★ STATE OF ILLINOIS

APPROVED
For Structural Adequacy Only
Engineer of Bridges & Structures

Adam Bohnhoff 03/13/2023

Adam D. Bohnhoff — Date
Licensed Structural Engineer
State of Illinois No. 081-007431
Expires 11-30-2024

GENERAL PLAN & ELEVATION
IL. ROUTE 3 OVER TALBOTT HOLLOW CREEK
F.A.P. RTE 312 - SECTION 123B-7
JACKSON COUNTY
STATION 252+70.00
STRUCTURE NO. 039-2035

MODEL: TSL
FILE NAME: P:\Effingham\4268 - IDOT 193-33 D9 VV_WK\Work Order #11\CAD\Phase 2 Design\039-2035\039-2035_Sheet 1_Gen. Plan & Elev.dgn
3/13/2023 10:06:30 AM

CIVIL DESIGN, INC. WSE | DSE EFFINGHAM, IL LICENSE #184.003222

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

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL PLAN & ELEVATION
STRUCTURE NO. 039-2035
SHEET 1 OF **12 SHEETS**

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
312	123B-7	JACKSON	101	74
		CONTRACT NO. 78790		
	ILLINOIS	FED. AID PROJECT		

GENERAL NOTES

Reinforcement bars designated (E) shall be epoxy coated

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

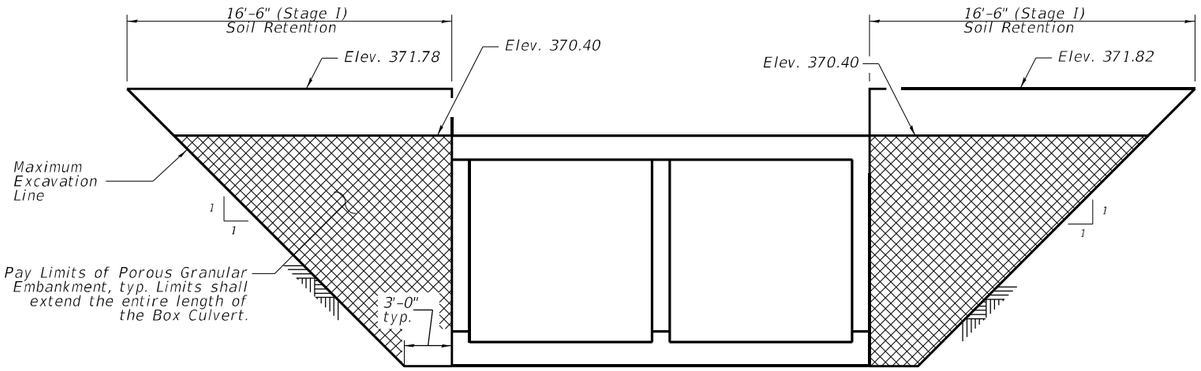
Precast alternate is not allowed.

Protective Coat shall not be applied to surfaces to which Membrane Waterproofing System for Buried Structures is applied.

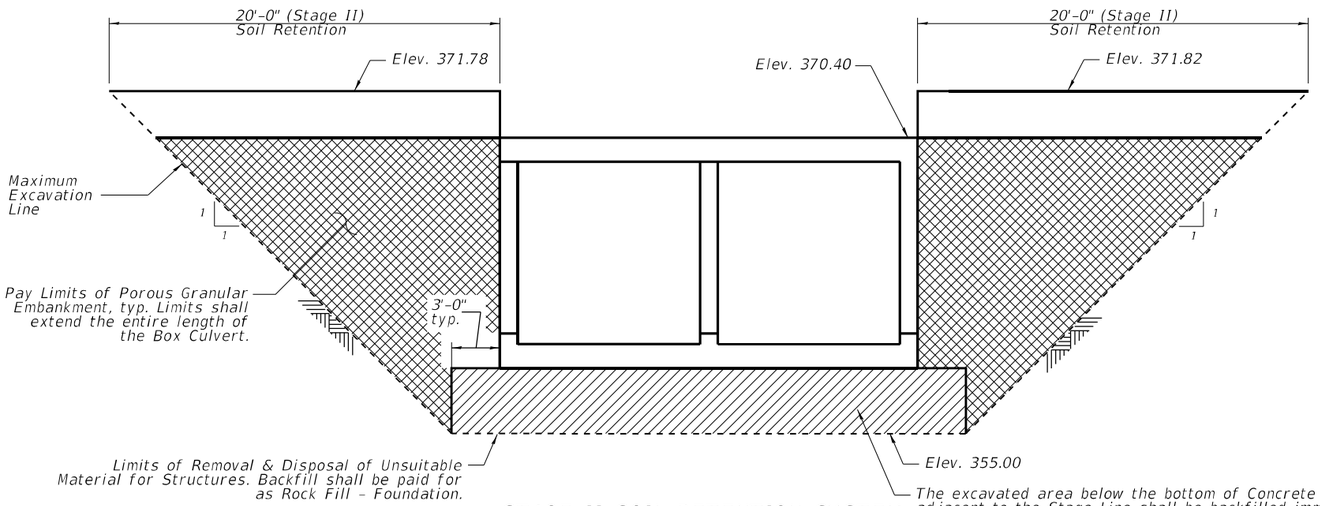
The limits and quantities of Removal and Disposal of Unsuitable Materials for Structures and replacement with Rock Fill – Foundation are based on the soil boring data and may be modified by the District Geotechnical Engineer and/or the Field Engineer for variable subsurface conditions actually encountered in the field.

TOTAL BILL OF MATERIAL

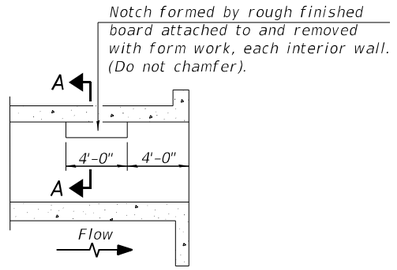
ITEM	UNIT	TOTAL
Porous Granular Embankment	Cu. Yd.	425
Stone Riprap, Class A5	Ton	295
Filter Fabric	Sq. Yd.	279
Removal of Existing Structures No. 3	Each	1
Removal and Disposal of Unsuitable Materials for Structures	Cu. Yd.	235
Protective Coat	Sq. Yd.	17
Reinforcement Bars, Epoxy Coated	Pound	43,310
Bar Splicers	Each	158
Steel Railing, Type C0-10	Foot	45
Name Plates	Each	1
Concrete Box Culverts	Cu. Yd.	201.5
Geocomposite Wall Drain	Sq. Yd.	127
Membrane Waterproofing System for Buried Structures	Sq. Yd.	127
Temporary Soil Retention System	Sq. Ft.	648
Rock Fill – Foundation	Ton	482



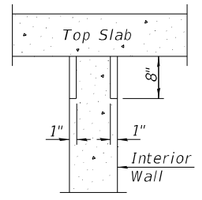
STAGE I SOIL RETENTION SYSTEM
(Looking South)
(Dimensions along Stage Construction Line)



STAGE II SOIL RETENTION SYSTEM
(Looking South)
(Dimensions along Stage Construction Line)



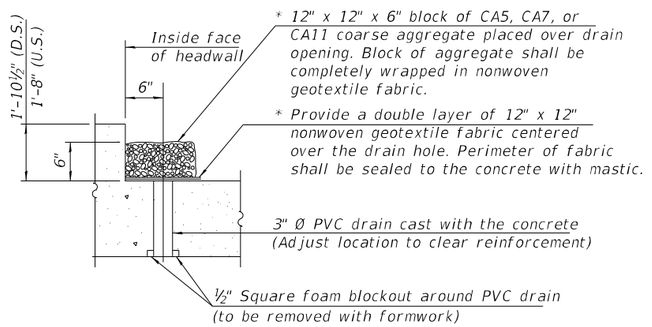
LONGITUDINAL SECTION



SECTION A-A

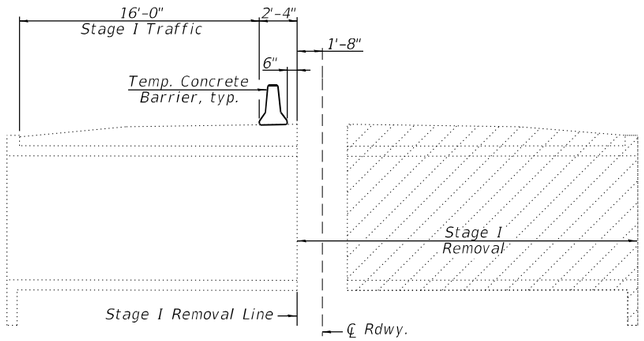
PHOEBE NESTING SITE DETAILS
(Downstream End Only)

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



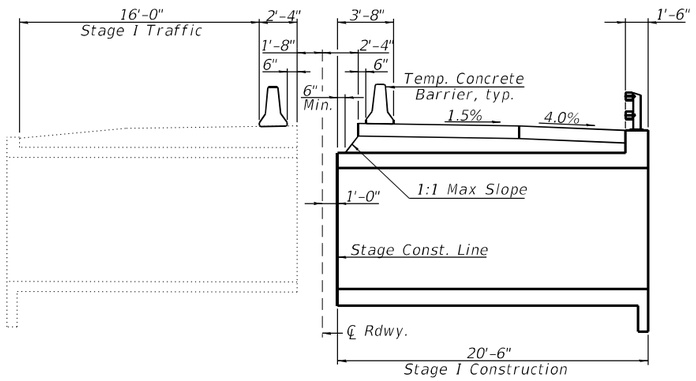
DRAIN DETAIL (4 each)

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



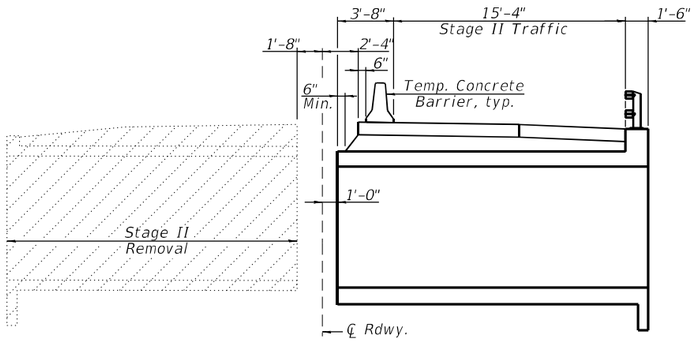
STAGE I REMOVAL SECTION

(Looking West)



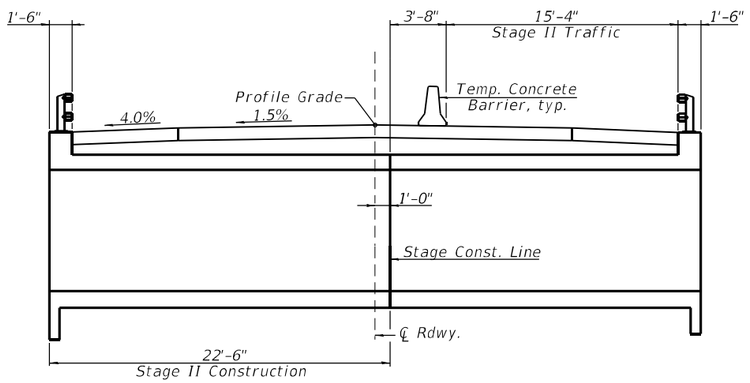
STAGE I CONSTRUCTION SECTION

(Looking West)



STAGE II REMOVAL SECTION

(Looking West)



STAGE II CONSTRUCTION SECTION

(Looking West)

Notes:

Hatched areas indicate Removal of Existing Structures.

See Roadway Plans for quantity and details of Temporary Concrete Barrier.

A cantilevered sheet piling design does not appear to be 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.

CIVIL DESIGN, INC.
WBE | DBE
EFFINGHAM, IL
LICENSE #184.003222

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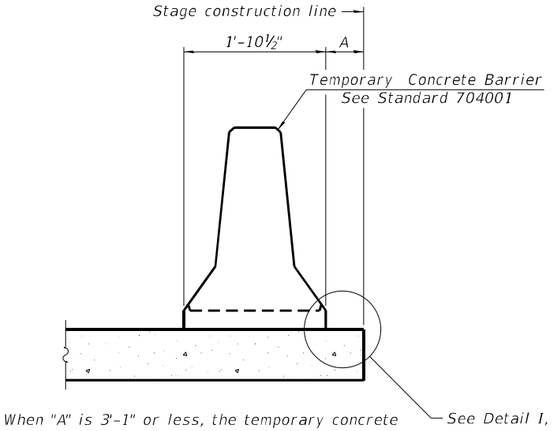
PLOT SCALE =	DRAWN - JAG	REVISED -
PLOT DATE =	CHECKED - ADB	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

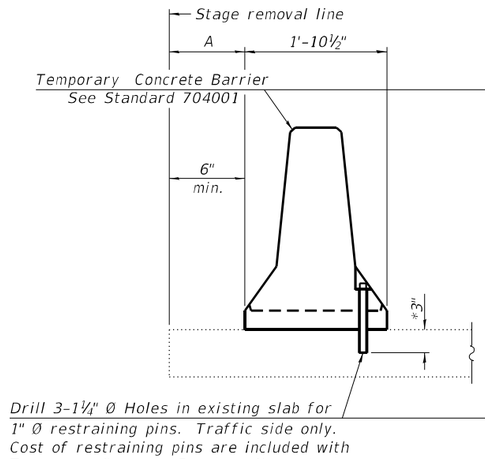
STAGE CONSTRUCTION DETAILS
STRUCTURE NO. 039-2035
SHEET NO. 3 OF 12 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
312	123B-7	JACKSON	101	76
		CONTRACT NO. 78790		
ILLINOIS	FED. AID PROJECT			



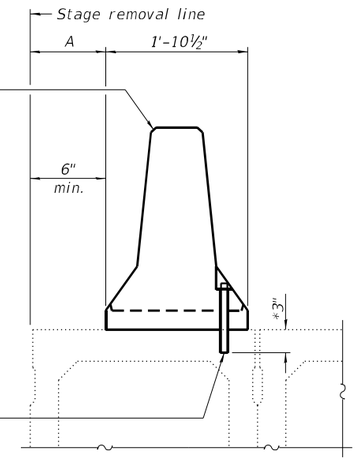
When "A" is 3'-1" or less, the temporary concrete barrier shall be restrained to the new slab according to Detail I, II or III. No restraint is required when "A" is greater than 3'-1".

NEW SLAB OR NEW DECK BEAM



Drill 3-1¼" 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".

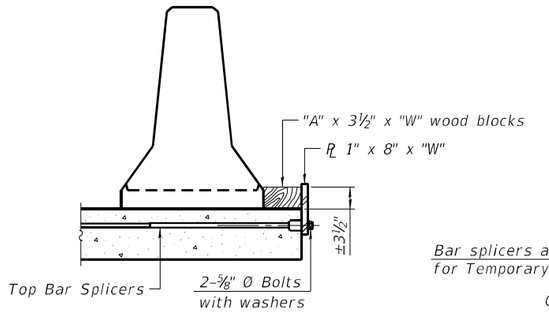
EXISTING SLAB



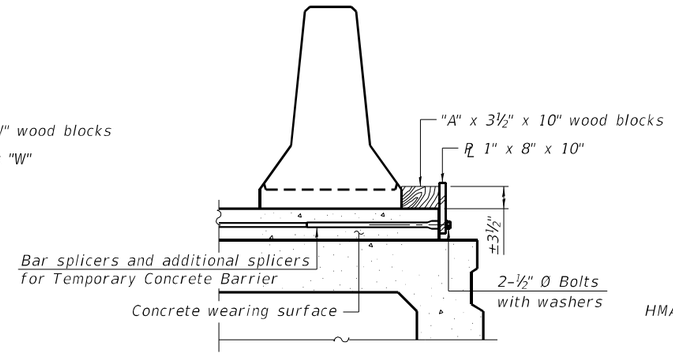
* When hot-mix asphalt wearing surface is present, embedment shall be 3" plus the wearing surface depth.

EXISTING DECK BEAM

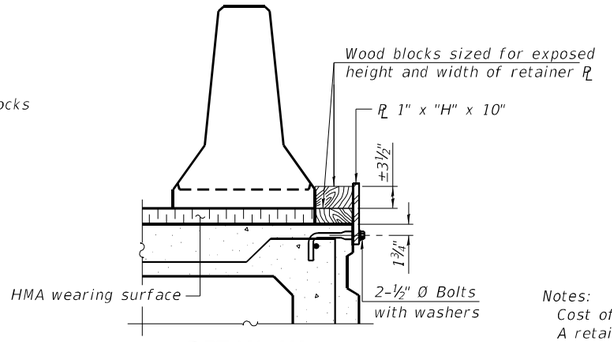
SECTIONS THRU SLAB OR DECK BEAM



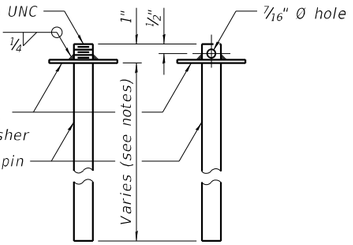
DETAIL I



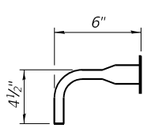
DETAIL II



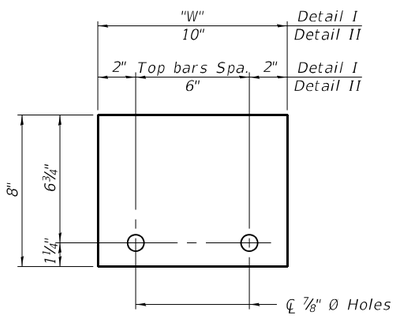
DETAIL III



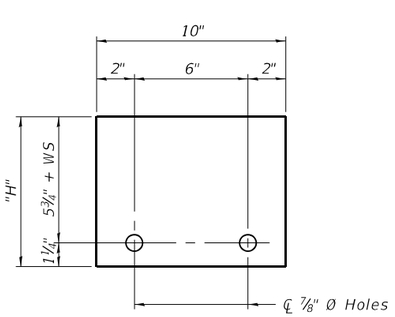
RESTRAINING PIN



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 ℄ 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 1½", 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

10-12-2021

CDI
CIVIL DESIGN, INC.
WBE | DBE
EFFINGHAM, IL
LICENSE #184.003222

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

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMP. CONCRETE BARRIER FOR STAGE CONSTRUCTION
STRUCTURE NO. 039-2035
SHEET NO. 4 OF 12 SHEETS

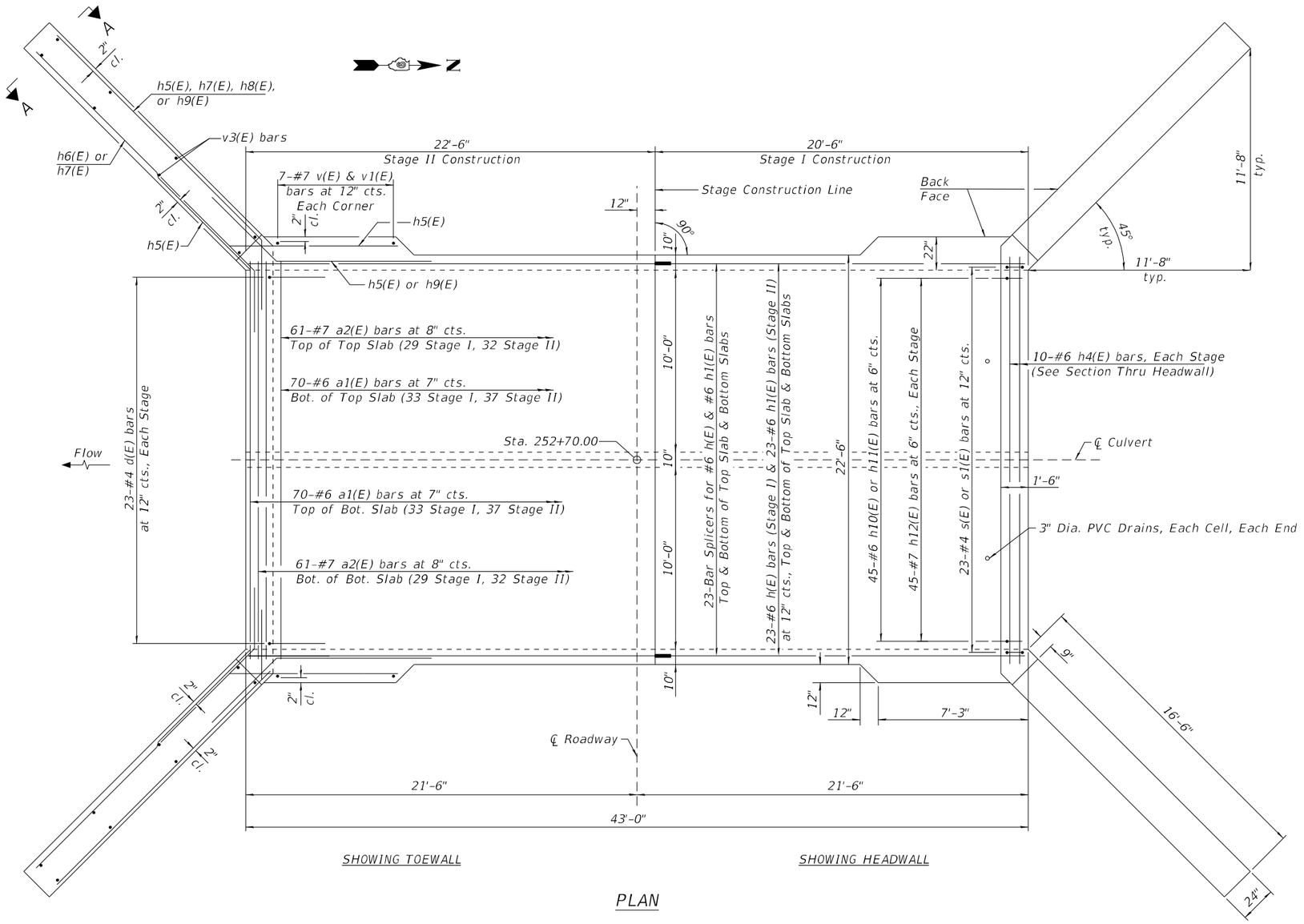
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
312	123B-7	JACKSON	101	77
		CONTRACT NO. 78790		
	ILLINOIS FED. AID PROJECT			

Notes:
A distance of half the length of the wingwall but not less than six feet of the barrel shall be poured monolithically with the wingwalls.

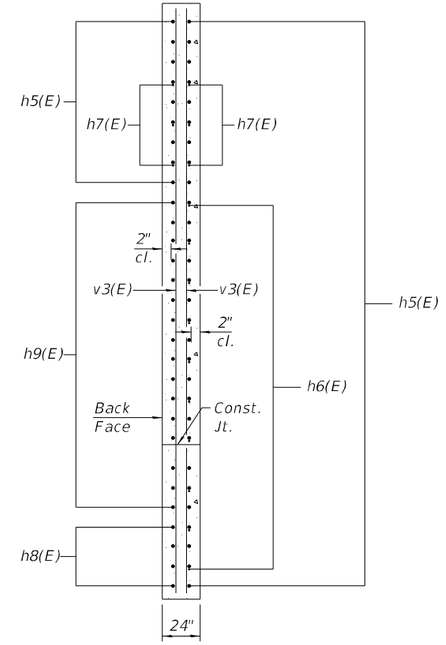
At the Contractor's option, a longer v1(E) bar may be ordered to replace the v(E) bar. No reduction in quantities shall be made for this substitution.

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a(E)	2	#4	22'-2"	
a1(E)	140	#6	23'-6"	
a2(E)	122	#7	22'-2"	
d(E)	46	#4	4'-5"	
h(E)	92	#6	20'-2"	
h1(E)	92	#6	22'-2"	
h2(E)	66	#5	20'-2"	
h3(E)	66	#5	22'-2"	
h4(E)	24	#6	20'-8"	
h5(E)	152	#8	13'-10"	
h6(E)	40	#4	16'-4"	
h7(E)	12	#4	22'-2"	
h8(E)	16	#8	20'-8"	
h9(E)	64	#8	21'-0"	
h10(E)	45	#6	4'-4"	
h11(E)	45	#6	4'-6"	
h12(E)	90	#7	6'-11"	
s(E)	23	#4	8'-5"	
s1(E)	23	#4	7'-11"	
v(E)	264	#7	10'-2"	
v1(E)	264	#7	6'-0"	
v2(E)	88	#6	9'-2"	
v3(E)	40	#4	15'-4"	
Concrete Box Culverts			Cu. Yd.	201.5
Reinforcement Bars, Epoxy Coated			Pound	43,310



PLAN

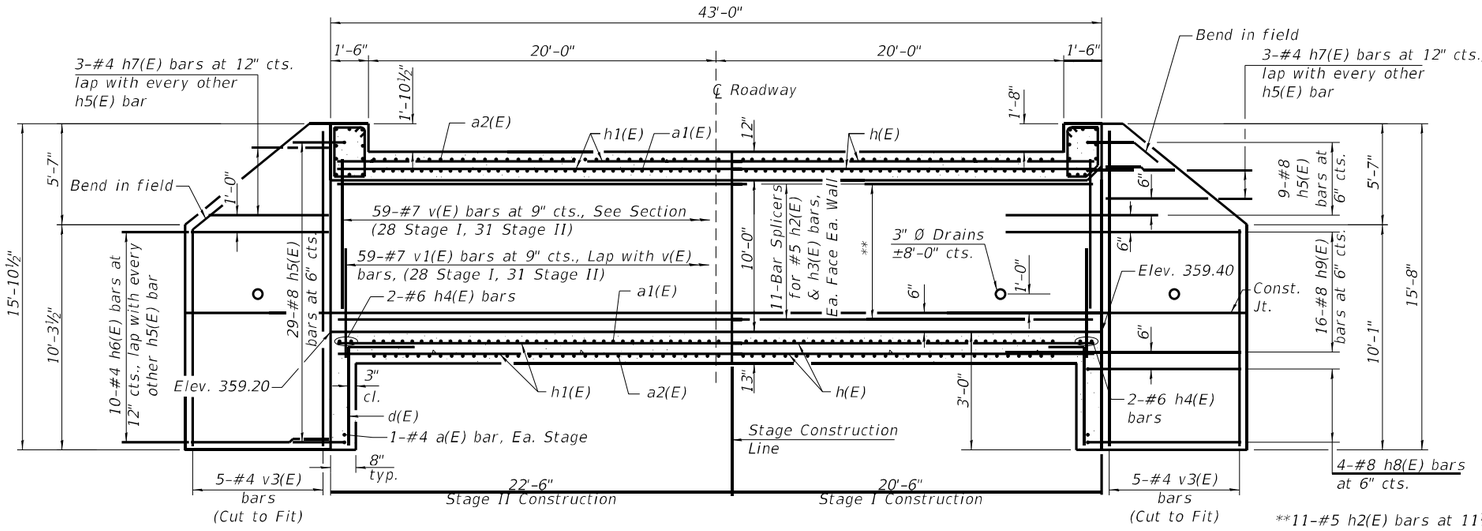


SECTION A-A

CIVIL DESIGN, INC. WBE | DBE EFFINGHAM, IL LICENSE #184.003222	USER NAME = ___	DESIGNED - JAG	REVISED - ___	**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**
		CHECKED - ADB	REVISED - ___	
	PLOT SCALE = ___	DRAWN - JAG	REVISED - ___	
	PLOT DATE = ___	CHECKED - ADB	REVISED - ___	

SLAB REINFORCEMENT PLAN
STRUCTURE NO. 039-2035
SHEET NO. 5 OF 12 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
312	123B-7	JACKSON	101	78
		CONTRACT NO. 78790		
	ILLINOIS FED. AID PROJECT			



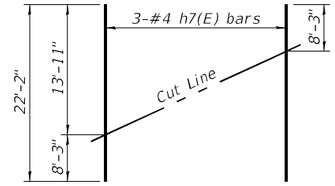
**11-#5 h2(E) bars at 11½" cts., Each Face, Each Wall, (Stage I)
**11-#5 h3(E) bars at 11½" cts., Each Face, Each Wall, (Stage II)

LONGITUDINAL SECTION

(Looking West)

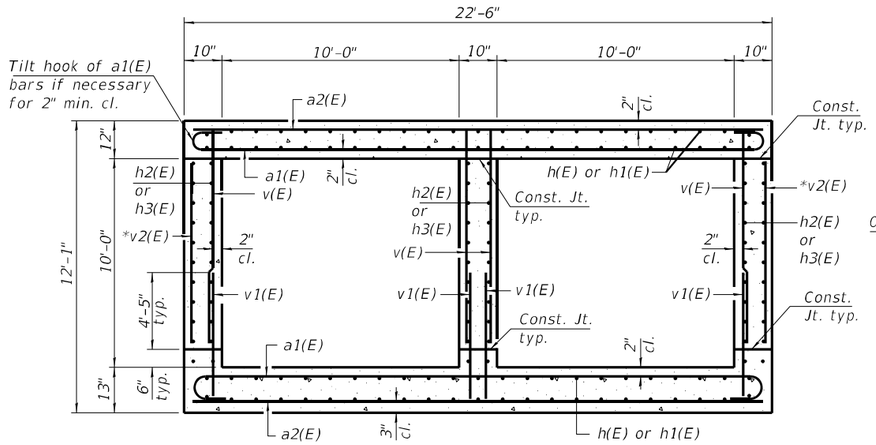
SHOWING REINFORCEMENT IN FRONT FACE

SHOWING REINFORCEMENT IN BACK FACE

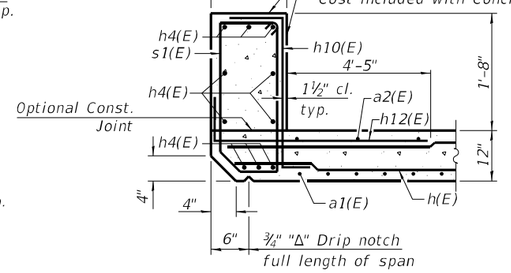


FIELD CUTTING DIAGRAM

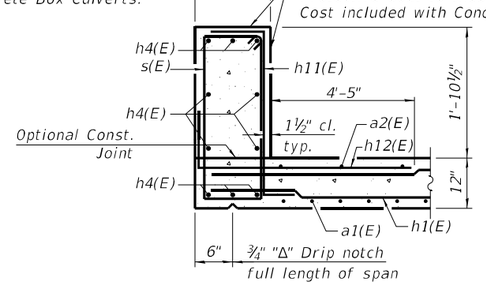
Order h7(E) bars full length. Cut as shown and use remainder of bars in opposite face.



SECTION THRU BARREL

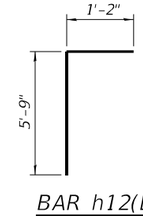


UPSTREAM

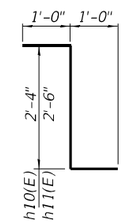


DOWNSTREAM

SECTION THRU HEADWALL



BAR h12(E)

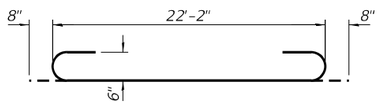


BARS h10(E) & h11(E)

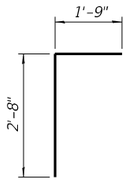
*84-#6 v2(E) bars at 12" cts. (Each Stage)
(21 Stage I, Each Stage, 23 Stage II, Each Stage)

Notes:
A distance of half the length of the wingwall but not less than six feet of the barrel shall be poured monolithically with the wingwalls.

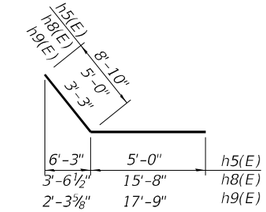
At the Contractor's option, a longer v1(E) bar may be ordered to replace the v(E) bar. No reduction in quantities shall be made for this substitution.



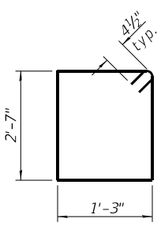
BAR a1(E)



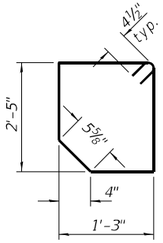
BAR d(E)



BARS h5(E), h8(E), & h9(E)



BAR s(E)



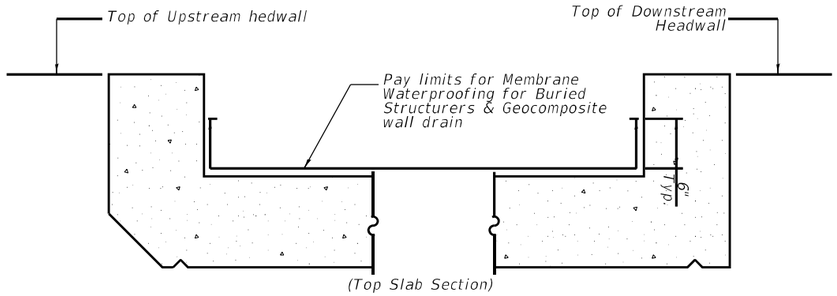
BAR s1(E)

CDI CIVIL DESIGN, INC. WBE | DBE EFFINGHAM, IL LICENSE #184.003222	USER NAME =	DESIGNED - JAG	REVISED -
		CHECKED - ADB	REVISED -
	PLOT SCALE =	DRAWN - JAG	REVISED -
	PLOT DATE =	CHECKED - ADB	REVISED -

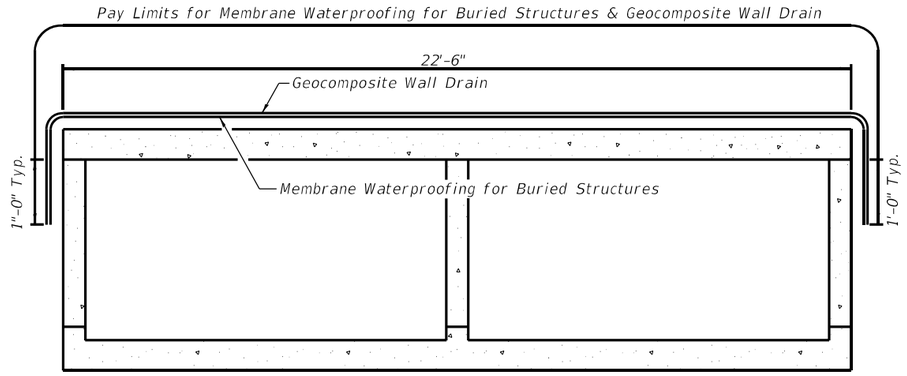
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CULVERT DETAILS - 1
STRUCTURE NO. 039-2035
SHEET NO. 6 OF 12 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
312	123B-7	JACKSON	101	79
		CONTRACT NO. 78790		
	ILLINOIS FED. AID PROJECT			



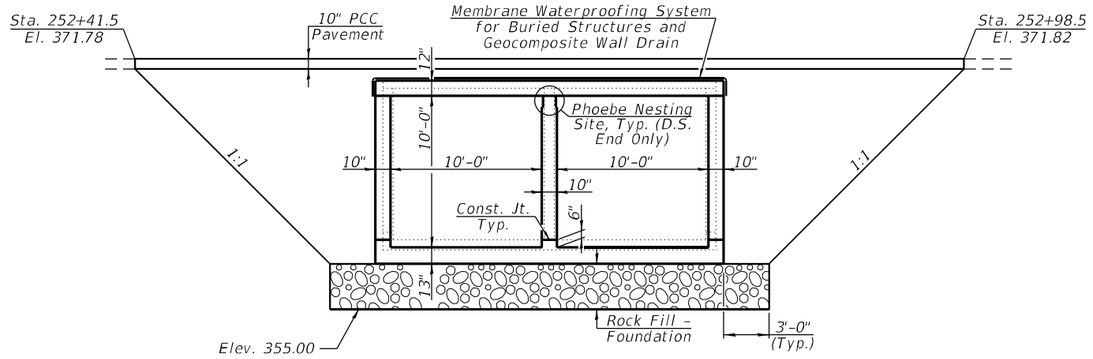
(Top Slab Section)



(Looking at Box Section)

MEMBRANE WATERPROOFING FOR BURIED STRUCTURES

Note: Membrane Waterproofing for Culverts shall cover top of the top slab, top one foot of side walls (below top slab joint), and 6 inches up inside face of headwalls.

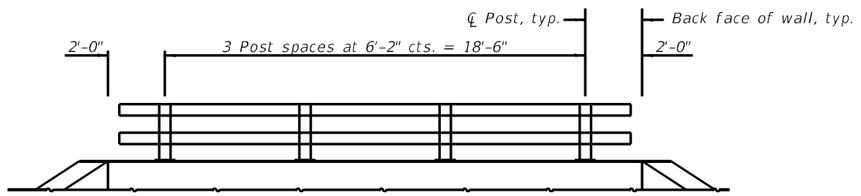


SECTION THRU BARREL

(Existing bridge foundation within the limits of the proposed construction to be removed.)

Note:

The Rock Fill shall be capped according to the Rock Fill – Foundation Special Provision. The cost of the capping material shall be included in the pay item for Rock Fill – Foundation.



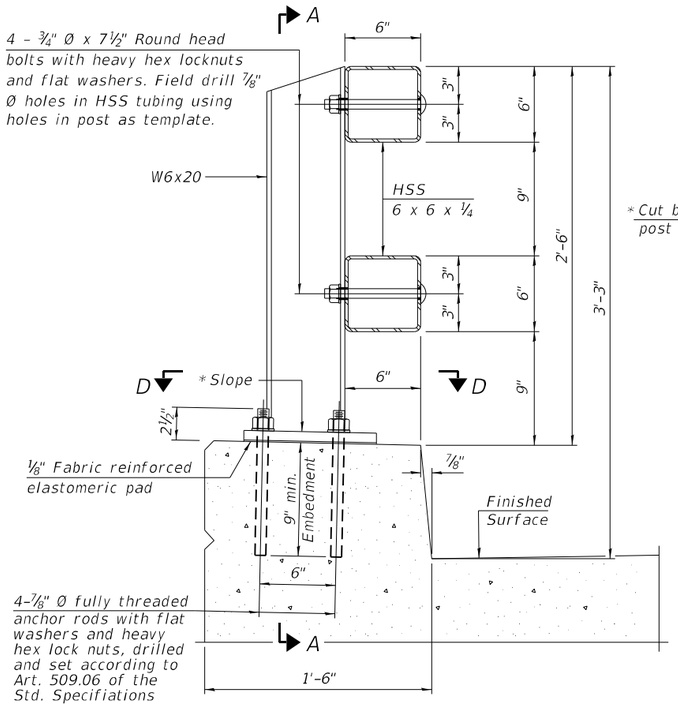
HEADWALL RAILING ELEVATION

CIVIL DESIGN, INC. WBE | DBE EFFINGHAM, IL LICENSE #184.003222	USER NAME =	DESIGNED - JAG	REVISED -
		CHECKED - ADB	REVISED -
	PLOT SCALE =	DRAWN - JAG	REVISED -
	PLOT DATE =	CHECKED - ADB	REVISED -

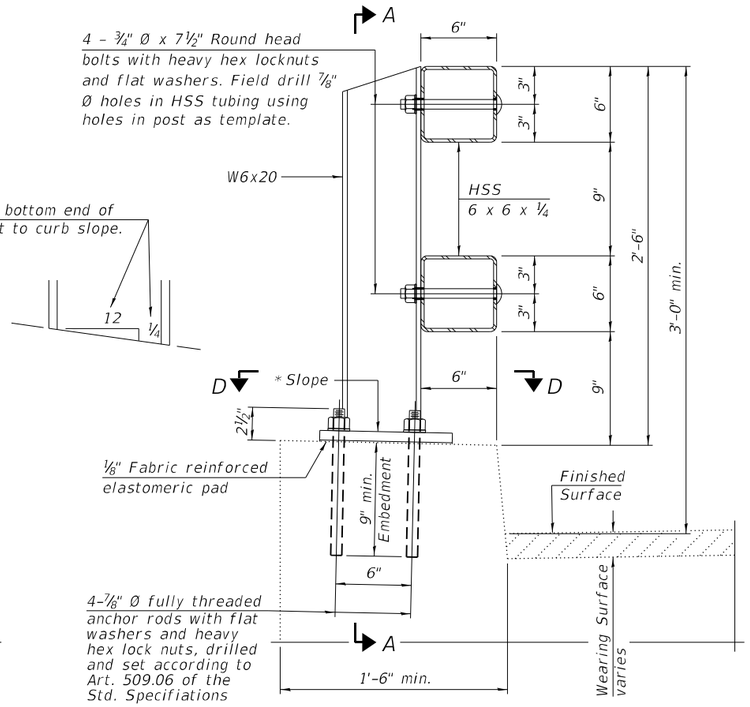
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CULVERT DETAILS - 2
STRUCTURE NO. 039-2035
SHEET NO. 7 OF 12 SHEETS

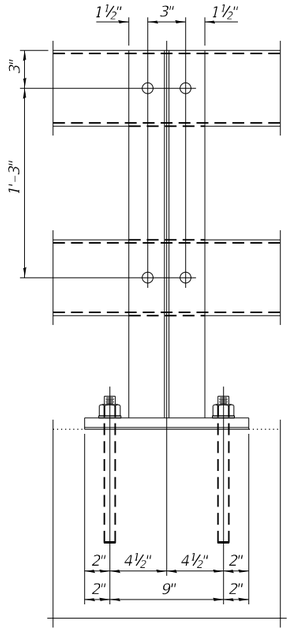
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
312	123B-7	JACKSON	101	80
		CONTRACT NO. 78790		
	ILLINOIS	FED. AID PROJECT		



SECTION AT RAIL POST
(New construction)

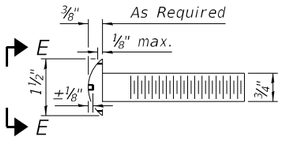


SECTION AT RAIL POST
(Retrofit construction)

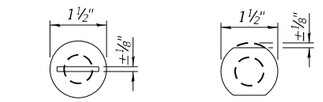


SECTION A-A

Notes:
All HSS tubing shall be ASTM A500 grade C.
All plates shall be AASHTO M270 grade 50.
All heavy hex nuts shall be according to ASTM A563 grade DH.
All fully threaded anchor rods shall be ASTM F1554 grade 105.
The post base plate shall be fastened to the curb snug tight and given an additional ⅛" turn.
Posts shall not be located closer than 2'-6" to a bridge expansion joint.
Provide one ⅛" and two 1/16" steel shims for 25% of the posts. Shims shall be similar to base plates in size and holes.
All steel rail elements shall be galvanized according to Article 509.05 of the Standard Specifications.
All HSS tubing shall be CVN tested according to Article 1006.34(b) of the Standard Specifications.
Rail splice inserts may be built out of 2 –⅜" bent plates in lieu of the 4 plate rail splice inserts shown, provided the outside dimensions are matched.
All round head bolts shall be ASTM A449.
The centerline of rail splices shall be placed between 1'-8" to 2'-6" from the centerline of the posts. The free end of the splice tube shall be oriented away from the closest post.



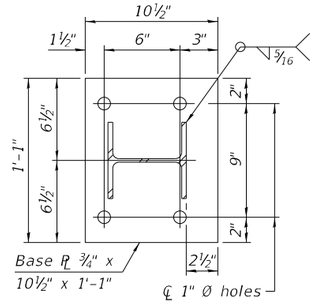
ROUND HEAD BOLT DETAIL



With Slot (shown) or Approved Recess

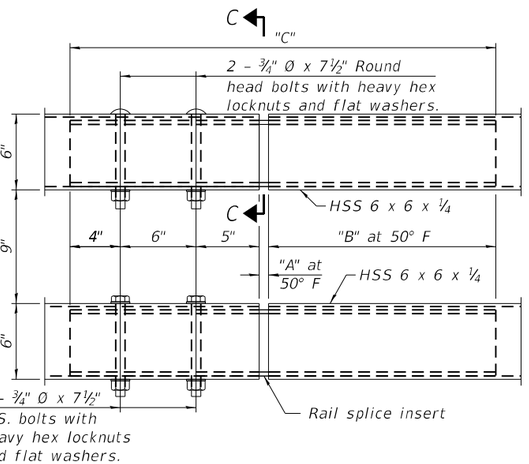
Without Slot or Recess

VIEW E-E

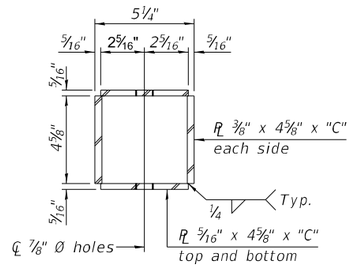


℄ 1" Ø holes

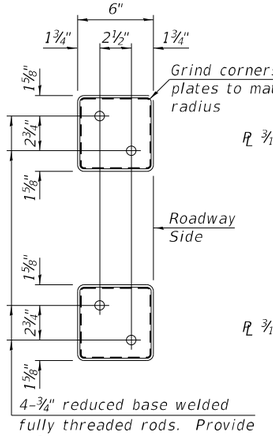
SECTION D-D



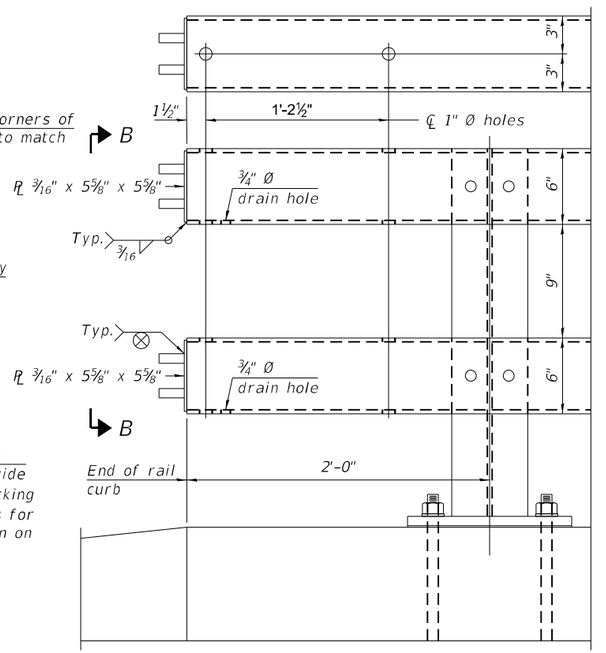
TOP AND BOTTOM RAIL SPLICE ELEVATION



SECTION C-C



VIEW B-B



END OF RAIL DETAILS

RAILING CRITERIA

MASH 2016 Test Level	4
Railing Weight (plf)	75
Min f'c (psi)	4,500
Post Spacing Range	6'-8" - 10'-0"

SPLICE DIMENSIONS

Location	T	A	B	C
All locs. not over exp. jts.	0	½"	1'-6"	2'-9½"
Over Strip Seal Jt.	≤4"	2½"	1'-8"	3'-1½"
Over Finger or Modular Jt.	≤9½"	5½"	1'-10¾"	3'-7¼"
Over Finger or Modular Jt.	≤15"	8¼"	2'-1½"	4'-0¾"

T = ; total movement along centerline of roadway at expansion joint.

BILL OF MATERIAL

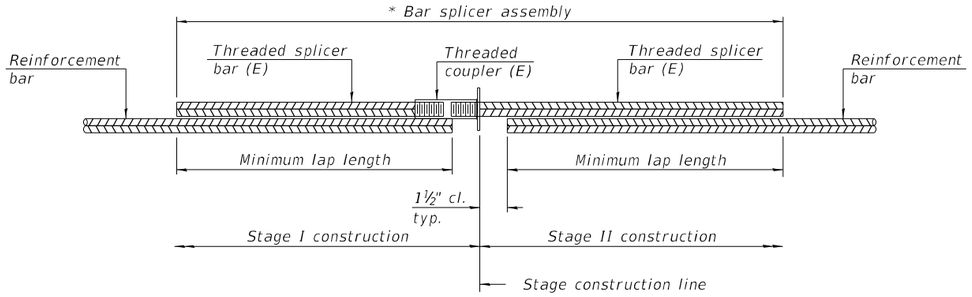
Item	Unit	Quantity
Steel Railing, Type CO-10	Foot	45

R-42 10-12-2021

CIVIL DESIGN, INC. WBE | DBE
EFFINGHAM, IL
LICENSE #184.003222

USER NAME =	DESIGNED - JAG	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	STEEL RAILING, TYPE CO-10 STRUCTURE NO. 039-2035
	CHECKED - ADB	REVISED -		SHEET NO. 8 OF 12 SHEETS
PLOT SCALE =	DRAWN - JAG	REVISED -		
PLOT DATE =	CHECKED - ADB	REVISED -		

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
312	123B-7	JACKSON	101	81
		CONTRACT NO. 78790		
	ILLINOIS FED. AID PROJECT			



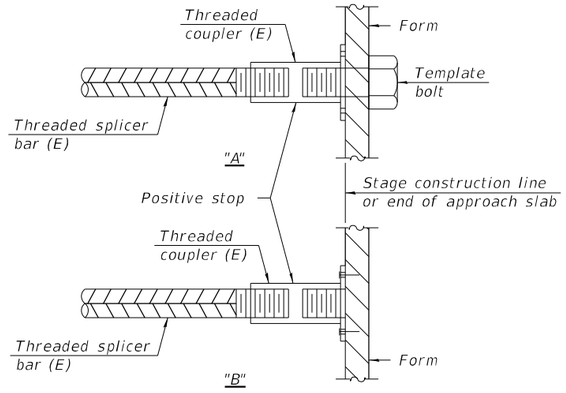
STANDARD BAR SPLICER ASSEMBLY PLAN

(All components shall be provided from one supplier)

Threaded splicer bar length = min. lap length + 1½" + thread length

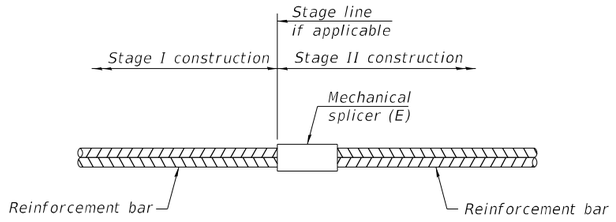
** Epoxy not required on Bar Splicer Assembly components used in conjunction with black bars.*

Location	Bar size	No. assemblies required	Minimum lap length
Top Slab	#6	23	3'-10"
Top Slab	#6	23	3'-10"
Bottom Slab	#6	23	3'-10"
Bottom Slab	#6	23	3'-10"
Walls	#5	66	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

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.

BSD-1 1-1-2020

CIVIL DESIGN, INC.
WBE | DBE
EFFINGHAM, IL
LICENSE #184.003222

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

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BAR SPLICER ASSEMBLY AND MECH. SPLICER DETAILS
STRUCTURE NO. 039-2035
SHEET NO. 9 OF 12 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
312	123B-7	JACKSON	101	82
		CONTRACT NO. 78790		
	ILLINOIS FED. AID PROJECT			

Illinois Department of Transportation
Division of Highways
District 9

SOIL BORING LOG

Page 1 of 1

Date 4/9/20

ROUTE IL 3 DESCRIPTION Box Culvert over Talbott Hollow LOGGED BY L. Estel

SECTION 123B-7 LOCATION 1.1 mi. NW of IL 151, SEC. 33, TWP. 8S, RNG. 4W, 3 PM

COUNTY Jackson DRILLING METHOD Hollow stem auger (8" O.D., 3.25" I.D.) HAMMER TYPE Auto SPT 140 lb

STRUCT. NO. 039-2015
Station 252+73

BORING NO. 1-S
Station 253+09
Offset 9.0ft Right
Ground Surface Elev. 371.7 ft

Surface Water Elev. ft
Stream Bed Elev. 360.7 ft

Groundwater Elev.:
▽ First Encounter ft
▼ Upon Completion ft
▼ After Hrs. ft

DEPTH (ft)	BLOWS	UCS Qu (tsf)	MOIST (%)	DEPTH (ft)	BLOWS	UCS Qu (tsf)	MOIST (%)
Cored Pavement, 2.5" HMA over 9.5" PCC 370.70				Soft Brown, Moist SILT *(continued)* 350.70	WOH 1	0.1 B	31
Stiff Brown, Moist CLAY	1						
	4 5	1.5 B	20				
367.20							
-5 M. Stiff Brown, Moist CLAY	WOH			-25			
	1 5	0.8 B	22				
364.70							
M. Stiff Brown, Moist SILTY CLAY	WOH						
	2 3	0.7 S	24				
-10	WOH			-30			
	1 1	0.5 S	24	Bottom of hole @ 21.0 ft			
359.70				Elevation referenced to BM 1001, Cut Square on top of NE HDWL of 039-2015; EL. 371.80			
M. Stiff Brown, Moist SILT	1						
	2 3	0.7 B	24	To convert "N" values to "N60", multiply by 1.5			
357.20				Groundwater not encountered while drilling			
-15 Soft Brown, Moist SILT	WOH			-35			
	WOH 2	0.3 B	23				
	WOH						
	1 WOH	0.1 B	26				
-20	WOH			-40			

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)

File Name S:\MATERIALS GEOTECHNICAL UNIT\GINT\PROJECTS\PROJECTS FILE\JACKSON\STRUCTURES\039-2015 IL 3 OVER TALBOTT HOLLOW\039-2015 IL 3 OVER TALBOTT HOLLOW 2020.GPJ Data Template D9TEMPLT.GDT Date Printed 4/22/20
Latitude 37° 47' 31.90 Longitude -89° 33' 01.42 Datum NAD83 Job Number

Illinois Department of Transportation
Division of Highways
District 9

SOIL BORING LOG

Page 1 of 1

Date 4/9/20

ROUTE IL 3 DESCRIPTION Box Culvert over Talbott Hollow LOGGED BY L. Estel

SECTION 123B-7 LOCATION 1.1 mi. NW of IL 151, SEC. 33, TWP. 8S, RNG. 4W, 3 PM

COUNTY Jackson DRILLING METHOD Hollow stem auger (8" O.D., 3.25" I.D.) HAMMER TYPE Auto SPT 140 lb

STRUCT. NO. 039-2015
Station 252+73

BORING NO. 2-S
Station 252+40
Offset 8.0ft Left
Ground Surface Elev. 371.6 ft

Surface Water Elev. ft
Stream Bed Elev. 360.7 ft

Groundwater Elev.:
▽ First Encounter ft
▼ Upon Completion ft
▼ After Hrs. ft

DEPTH (ft)	BLOWS	UCS Qu (tsf)	MOIST (%)	DEPTH (ft)	BLOWS	UCS Qu (tsf)	MOIST (%)
Cored Pavement, 2.5" HMA over 9.5" PCC 370.60					1 WOH	0.1 B	24
V. Stiff Brown, Moist SILTY CLAY							
	3				WOH		
	7 8	2.3 S	18		WOH WOH	0.1 B	30
367.10							
-5 M. Stiff Brown, Moist SILTY CLAY	2			-25 (Grey)	WOH		
	4 3	0.7 S	20		WOH WOH	0.1 B	22
				345.60			
	1						
	2 3	0.7 B	24				
362.10							
-10 Stiff Brown, Moist SILTY CLAY	1			-30			
	2 4	1.2 B	23	Bottom of hole @ 26.0 ft			
359.60				Elevation referenced to BM 1001, Cut Square on top of NE HDWL of 039-2015; EL. 371.80			
M. Stiff Brown, Moist SILTY CLAY	1						
	2 3	0.5 B	24	To convert "N" values to "N60", multiply by 1.5			
357.10				Groundwater not encountered while drilling			
-15 Soft Brown, Moist SILT	1			-35			
	2 2	0.4 B	23				
	WOH						
	WOH 1	0.1 B	24				
-20	WOH			-40			

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)

File Name S:\MATERIALS GEOTECHNICAL UNIT\GINT\PROJECTS\PROJECTS FILE\JACKSON\STRUCTURES\039-2015 IL 3 OVER TALBOTT HOLLOW\039-2015 IL 3 OVER TALBOTT HOLLOW 2020.GPJ Data Template D9TEMPLT.GDT Date Printed 4/22/20
Latitude 37° 47' 31.45 Longitude -89° 33' 00.80 Datum NAD83 Job Number

BOND ISSUE ROUTE NO.	SEC.	COUNTY	TOTAL SHEETS	SHEET NO.
150	C-123	Jackson	93	1
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT	194	

STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS AND BUILDINGS
DIVISION OF HIGHWAYS
PLANS FOR PROPOSED
STATE BOND ISSUE HIGHWAY

SCALES

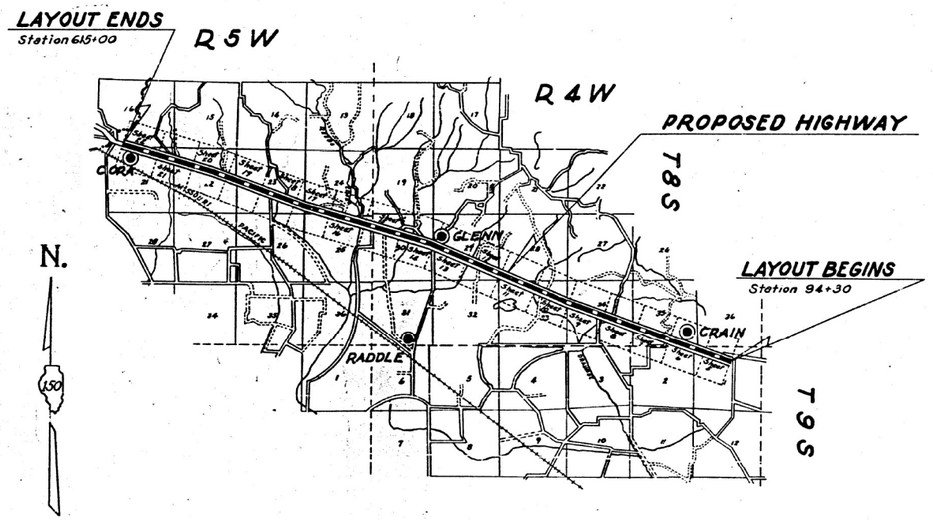
PLAN	1 INCH	100 FT.
PROFILE, HOR.	1 INCH	100 FT.
PROFILE, VERT.	1 INCH	10 FT.
CROSS-SECTIONS	1 INCH	5 FT.

F.A. PROJECT 194-C
ROUTE 150 SECTION 123 JACKSON COUNTY

FROM A POINT NEAR THE S.E. CORNER OF THE N.E. ¼ N.W. ¼ OF SEC. 1, T. 9S. R. 4W. OF THE 3 RD. P.M.
TO A POINT NEAR THE S.W. CORNER OF THE S.E. ¼ S.W. ¼ OF SEC. 16 T. 8S. R. 5W. OF THE 3 RD. P.M.

INDEX OF SHEETS

039-2015



LAYOUT

Approximate Scale 1 Inch = 1 Mile
Net Length of Layout 52070 Feet = 9.8617 Mile

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

SUBMITTED February 4 1932 — G. A. Somerville, DISTRICT ENGINEER
EXAMINED April 6 1932 — C. D. Mahan, ROAD SYSTEM ENGINEER
PASSED April 6 1932 — [redacted], DIVISION OF HIGHWAYS
APPROVED April 6 1932 — [redacted], CHIEF HIGHWAY ENGINEER
APPROVED April 6 1932 — [redacted], ACTING SUPERINTENDENT OF PUBLIC WORKS

RECOMMENDED FOR APPROVAL
[redacted]
DISTRICT ENGINEER, Bureau of Public Roads
RECOMMENDED FOR APPROVAL
[redacted]
CHIEF ENGINEER, Bureau of Public Roads
APPROVED
[redacted]
CHIEF, Bureau of Public Roads

- STATE LINE
- COUNTY LINE
- CITY, VILLAGE OR TOWN
- TOWNSHIP LINE
- SECTION LINE
- GRANT LINE
- SECTION CORNER
- FENCE LINE
- UNFENCED PROPERTY
- RIGHT OF WAY LINE
- GUARD RAIL
- STEAM RAILROAD
- ELECTRIC RAILROAD
- RETAINING WALL
- BASE OR SURVEY LINE
- LEVEE
- CULVERT
- STORM SEWER
- TILE DRAIN
- DROP INLET
- TROLLEY POLE
- POWER POLE
- TELEPHONE OR TELEGRAPH POLE
- MARSH
- HEDGE

039-2015

JACKSON COUNTY SECTION 123 ROUTE 150

9-23

E.E. 4-6-32

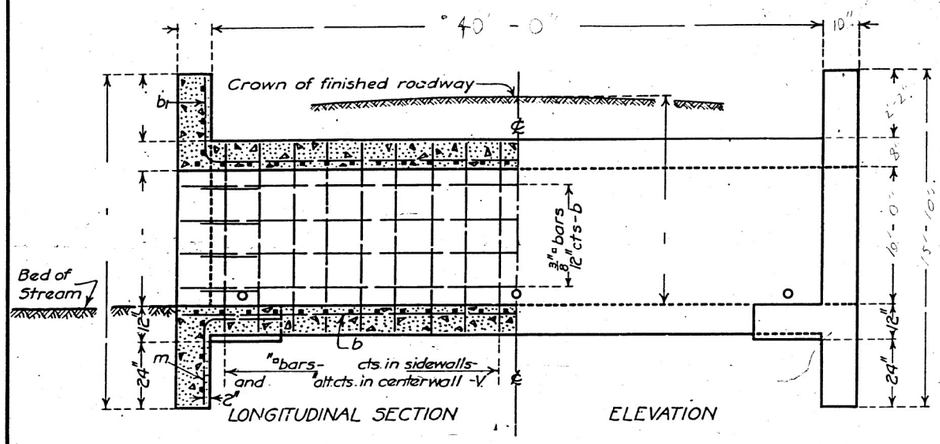
CIVIL DESIGN, INC. WBE | DBE — EFFINGHAM, IL LICENSE #184.003222	USER NAME =	DESIGNED - JAG	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EXISTING STRUCTURE PLANS - 1 STRUCTURE NO. 039-2035
		CHECKED - ADB	REVISED -		SHEET NO. 11 OF 12 SHEETS
	PLOT SCALE =	DRAWN - JAG	REVISED -		
	PLOT DATE =	CHECKED - ADB	REVISED -		

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
312	123B-7	JACKSON	101	84
		CONTRACT NO. 78790		
	ILLINOIS FED. AID PROJECT			

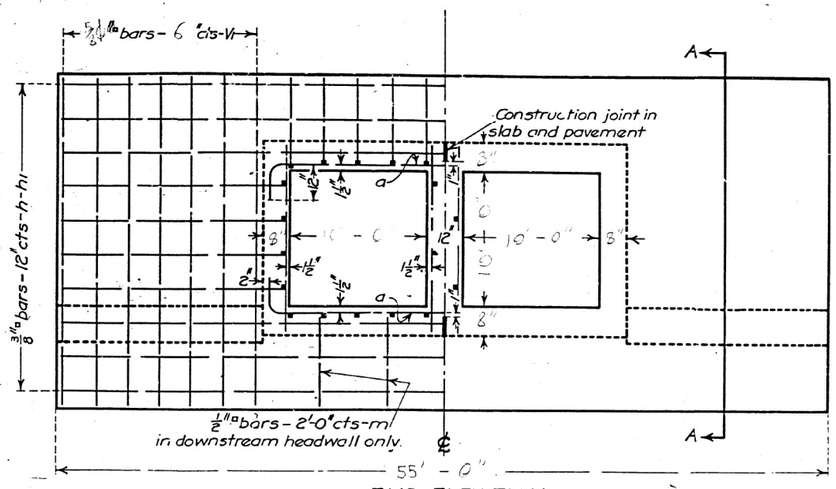
STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS

SHEET NO.
SHEETS

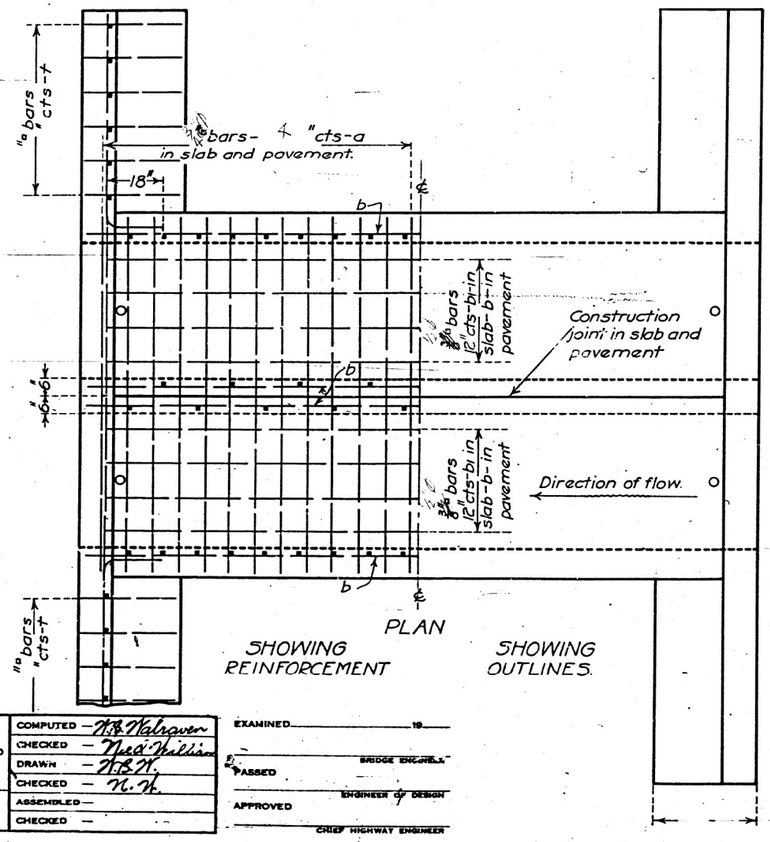
R.C. DOUBLE BOX CULVERT

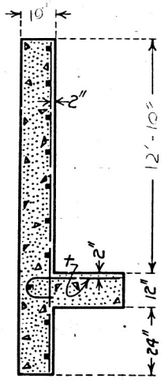


LONGITUDINAL SECTION ELEVATION



END ELEVATION
SHOWING REINFORCEMENT SHOWING OUTLINES.





SEC.A-A.

BILL OF MATERIAL

BARS	NO.	SIZE	LENGTH
V	120	½ ℄	11'-0"
V1	132	5/8"a	15'-6"
h	10	3/8"a	28'-6"
h1	44	3/8"a	18'-0"
a	250	¾"℄	23'-6"
b	100	3/8"a	21'-6"
b1	40	3/8"a	24'-0"
t	132	5/8"℄	5'-6"
m	10	½"a	5'-0"
Reinforcing Steel-Lbs.			15430
Concrete-Cu.Yds.			130.1

Class A Concrete to be used throughout. Proportions-1:2½:4.

STANDARD	COMPUTED — T.B. Walraven	EXAMINED ____ 19__	
	CHECKED — Ned Williams	PASSED ____ BRIDGE ENGINEER	
	DRAWN — T.B.W.		
	CHECKED — N.W.	APPROVED ____ ENGINEER OF DESIGN	
SPECIAL	ASSEMBLED —	____ CHIEF HIGHWAY ENGINEER	
	CHECKED —		

1113

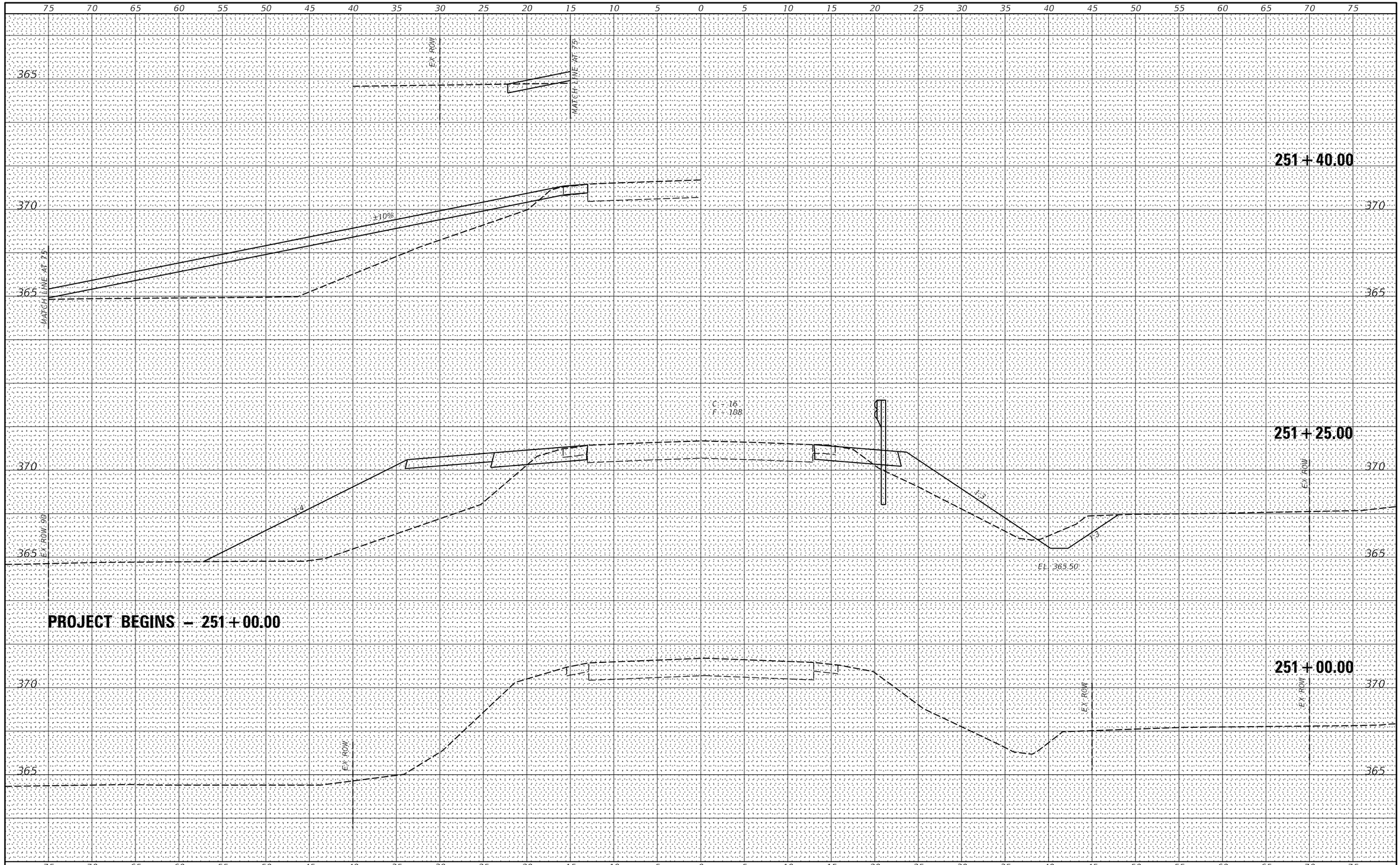
CIVIL DESIGN, INC.
WBE | DBE
EFFINGHAM, IL
LICENSE #184.003222

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

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING STRUCTURE PLANS - 2
STRUCTURE NO. 039-2035
SHEET NO. 12 OF 12 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
312	123B-7	JACKSON	101	85
		CONTRACT NO. 78790		
	ILLINOIS FED. AID PROJECT			



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

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

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

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

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS – SN 039–2035

SCALE: _____ | SHEET NO. 1 OF 9 SHEETS | STA. 251+00.00 TO STA. 251+40.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
312	123B-7	JACKSON	101	86
		CONTRACT NO. 78790		

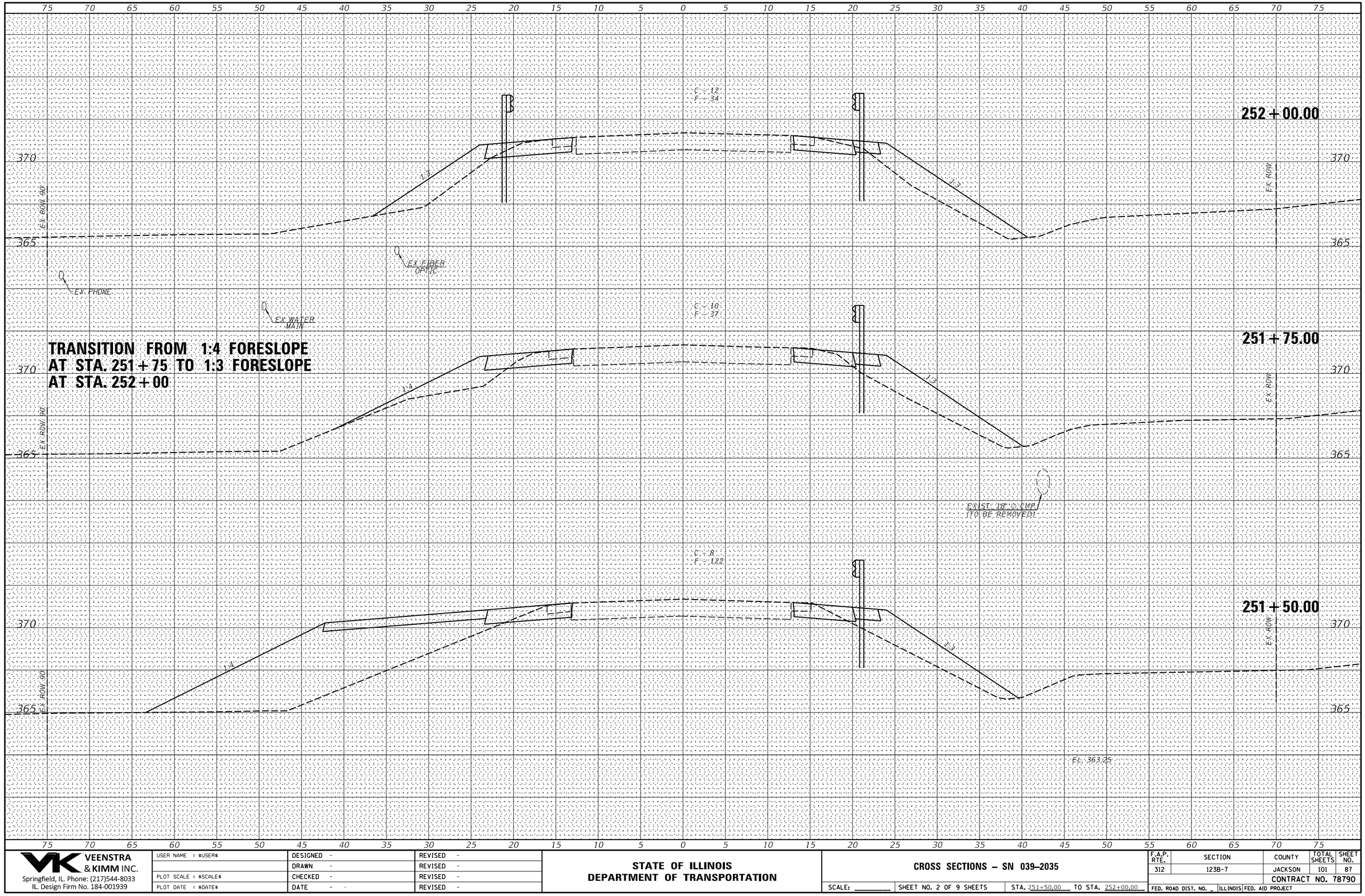
FED. ROAD DIST. NO. _ | ILLINOIS | FED. AID PROJECT

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

BY	DATE

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

BY	DATE



VEENSTRA & KIMM INC.	USER NAME = $USER$	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CROSS SECTIONS – SN 039–2035
Springfield, IL. Phone: (217)544-8033		DRAWN -	REVISED -		
IL. Design Firm No. 184-001939	PLOT SCALE = $SCALE$	CHECKED -	REVISED -		
	PLOT DATE = $DATE$	DATE -	REVISED -		

SCALE: _____ | SHEET NO. 2 OF 9 SHEETS | STA. 251+50.00 TO STA. 252+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
312	123B-7	JACKSON	101	87
		CONTRACT NO. 78790		

FED. ROAD DIST. NO. _ | ILLINOIS | FED. AID PROJECT

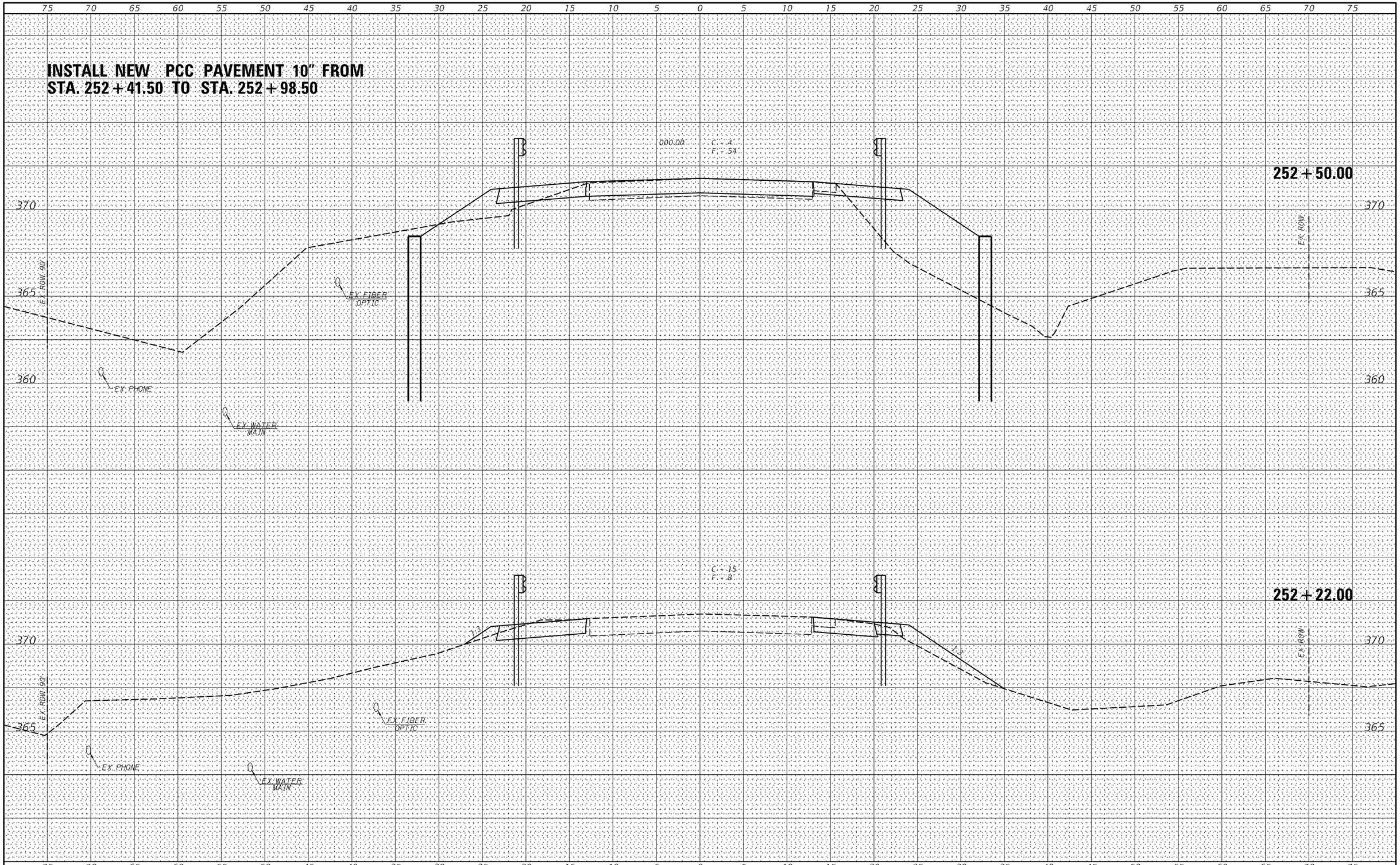
FINAL SURVEY	
NOTE BOOK	
NO.	

	BY	DATE
SURVEYED		
PLOTTED		
TEMPLATE		
AREAS		
AREAS CHECKED		

ORIGINAL SURVEY	
NOTE BOOK	
NO.	

	BY	DATE
SURVEYED		
PLOTTED		
TEMPLATE		
AREAS		
AREAS CHECKED		

INSTALL NEW PCC PAVEMENT 10" FROM STA. 252+41.50 TO STA. 252+98.50



VEENSTRA & KIMM INC. Springfield, IL. Phone: (217)544-8033 IL. Design Firm No. 184-001939	USER NAME = $USER$	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = $SCALE$	CHECKED -	REVISED -
	PLOT DATE = $DATE$	DATE - -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS – SN 039–2035

SCALE: _____ | SHEET NO. 3 OF 9 SHEETS | STA. 252+22.00 TO STA. 252+50.00

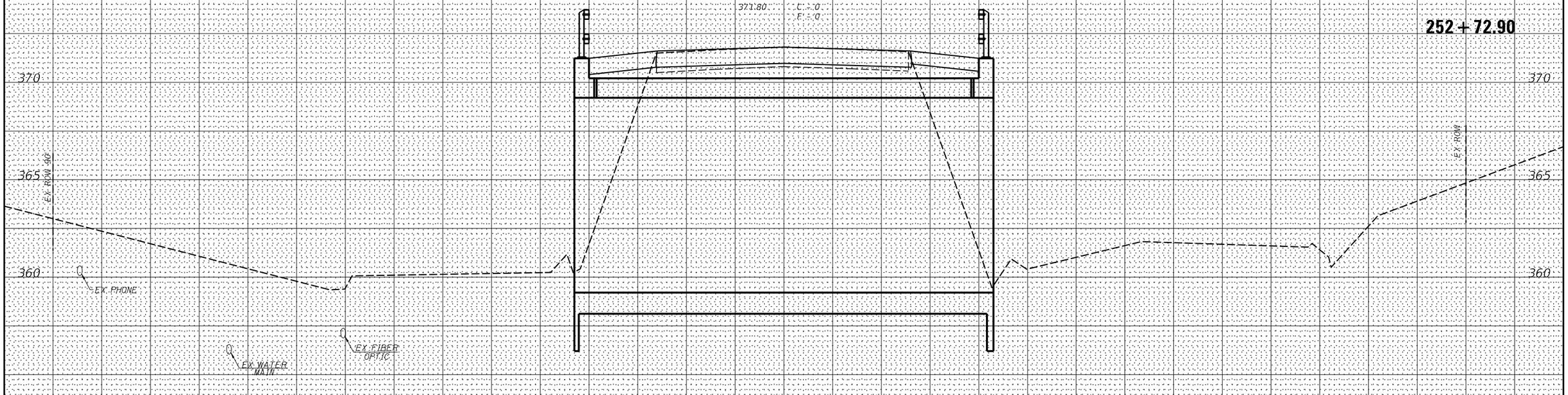
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
312	123B-7	JACKSON	101	88
		CONTRACT NO. 78790		
FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		

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

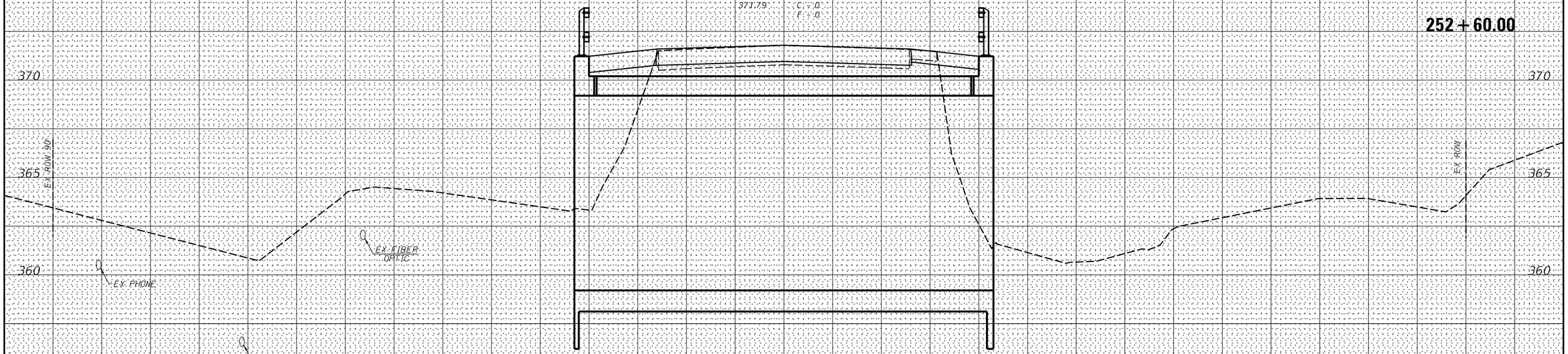
BY	DATE

BEGIN AGGREGATE DITCH – STA. 252 + 75 RT.

252 + 72.90



252 + 60.00



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

BY	DATE

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

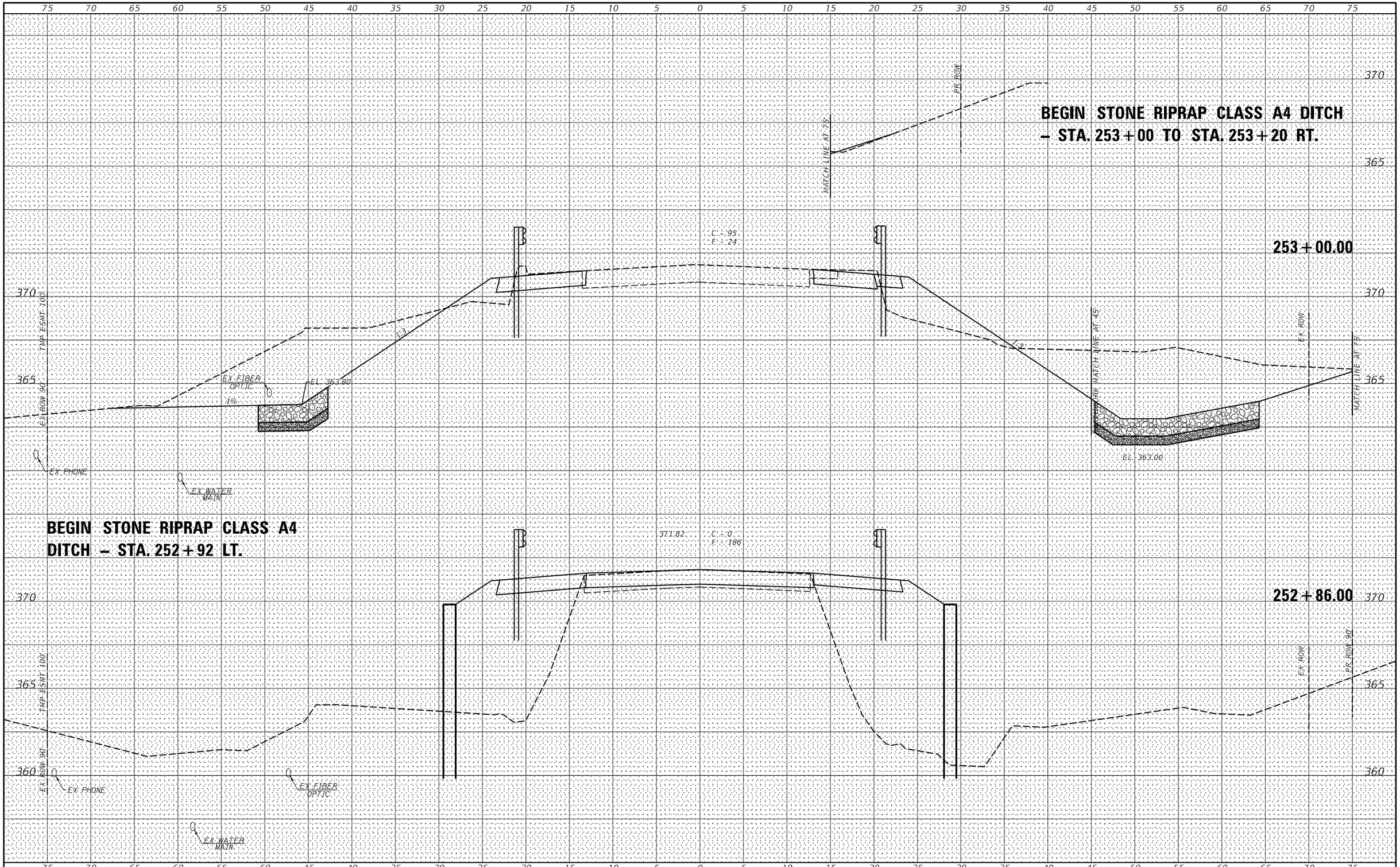
USER NAME = $USER$	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = $SCALE$	CHECKED -	REVISED -
PLOT DATE = $DATE$	DATE - -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS – SN 039–2035

SCALE: _____ | SHEET NO. 4 OF 9 SHEETS | STA. 252+60.00 TO STA. 252+72.90

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
312	123B-7	JACKSON	101	89
			CONTRACT NO. 78790	
FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		



FINAL SURVEY

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

ORIGINAL SURVEY

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

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

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

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS – SN 039–2035

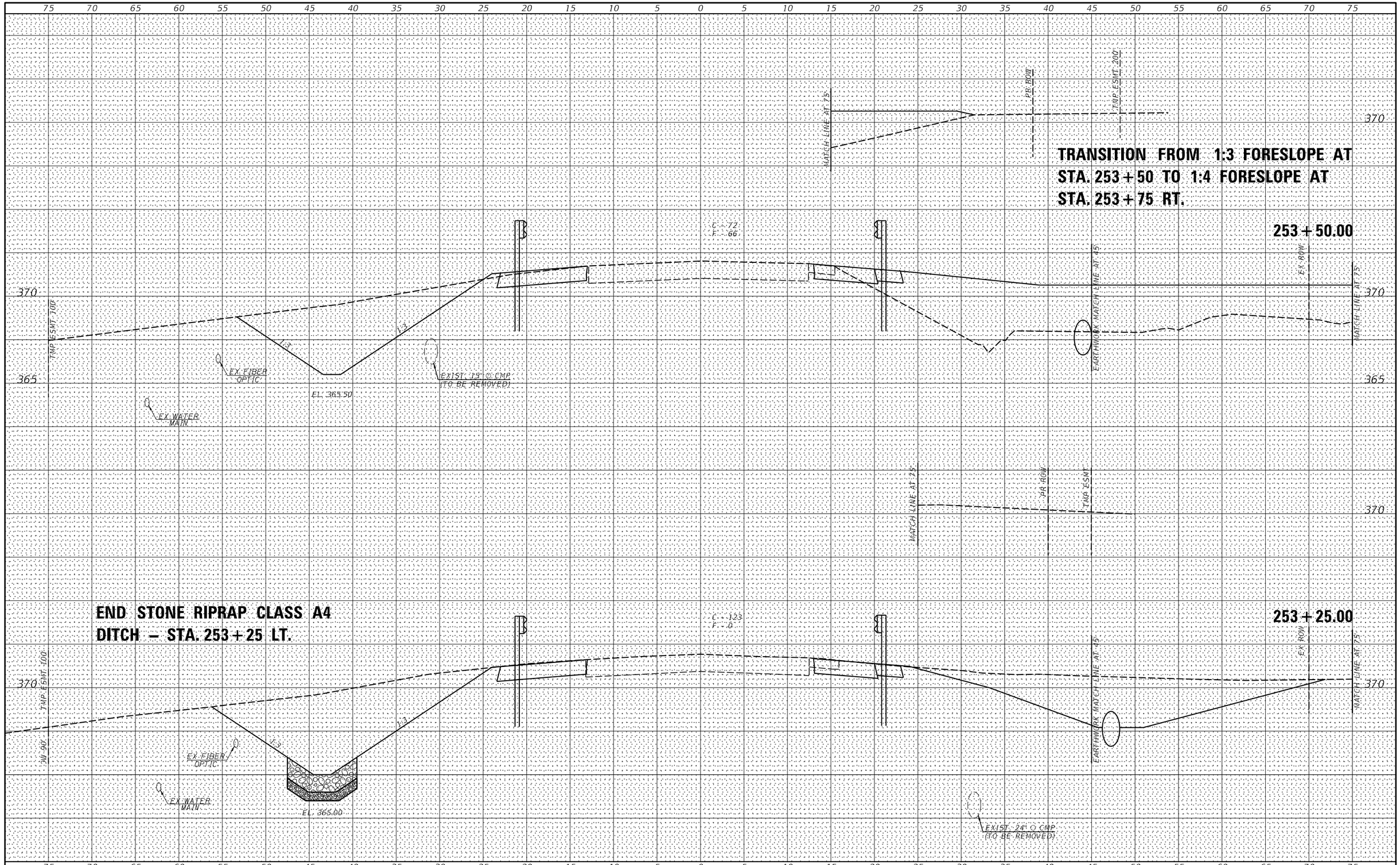
SCALE: _____ | SHEET NO. 5 OF 9 SHEETS | STA. 252+86.00 TO STA. 253+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
312	123B-7	JACKSON	101	90
		CONTRACT NO. 78790		

FED. ROAD DIST. NO. _ | ILLINOIS | FED. AID PROJECT

FINAL SURVEY	
NOTE BOOK	
NO.	

	BY	DATE
SURVEYED		
PLOTTED		
TEMPLATE		
AREAS		
AREAS CHECKED		



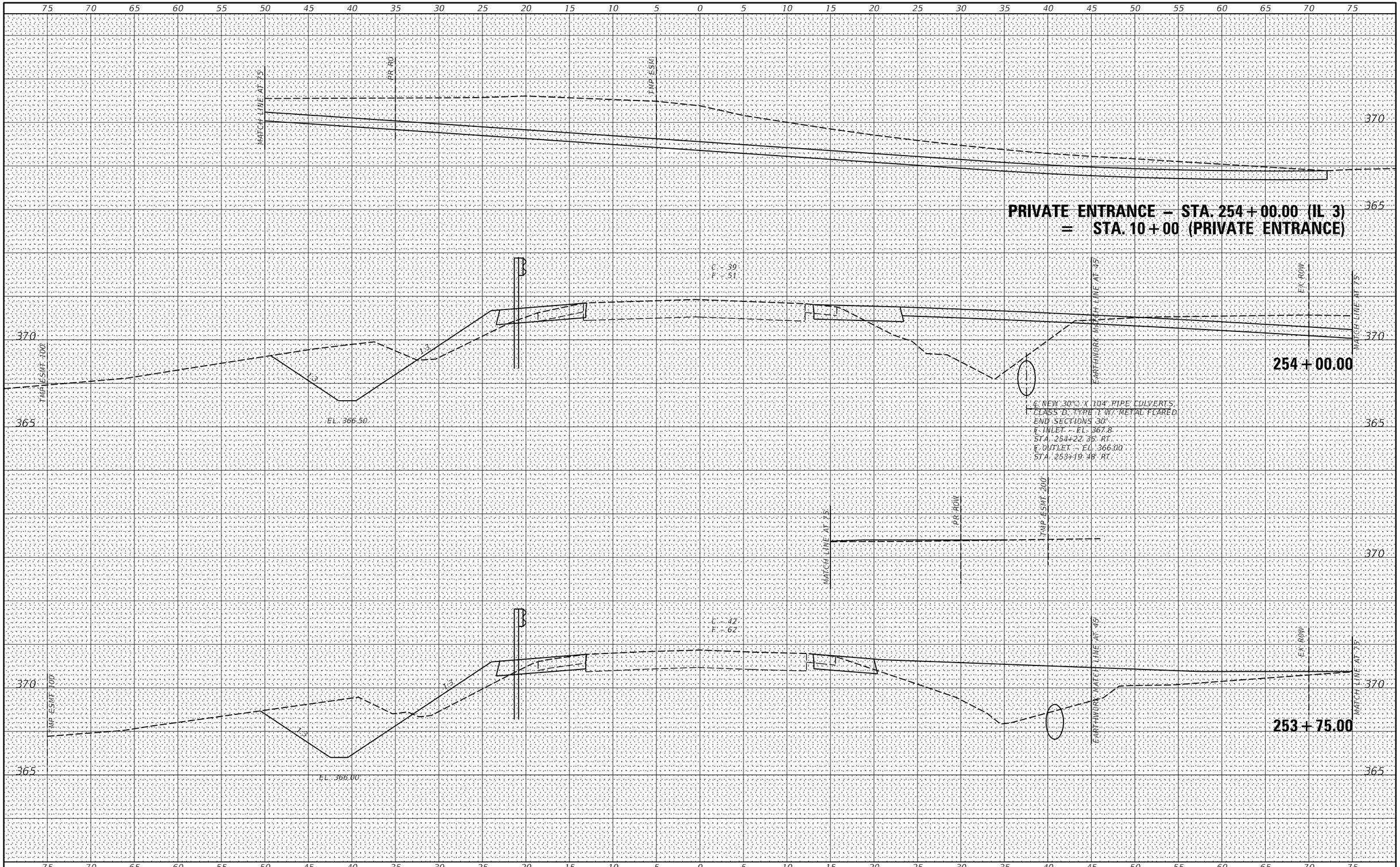
VEENSTRA & KIMM INC. Springfield, IL. Phone: (217)544-8033 IL. Design Firm No. 184-001939	USER NAME = $USER$	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CROSS SECTIONS – SN 039–2035
		DRAWN -	REVISED -		
	PLOT SCALE = $SCALE$	CHECKED -	REVISED -		
	PLOT DATE = $DATE$	DATE - -	REVISED -		

SCALE: _____ | SHEET NO. 6 OF 9 SHEETS | STA. 253+25.00 TO STA. 253+50.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
312	123B-7	JACKSON	101	91
		CONTRACT NO. 78790		
FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		

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

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



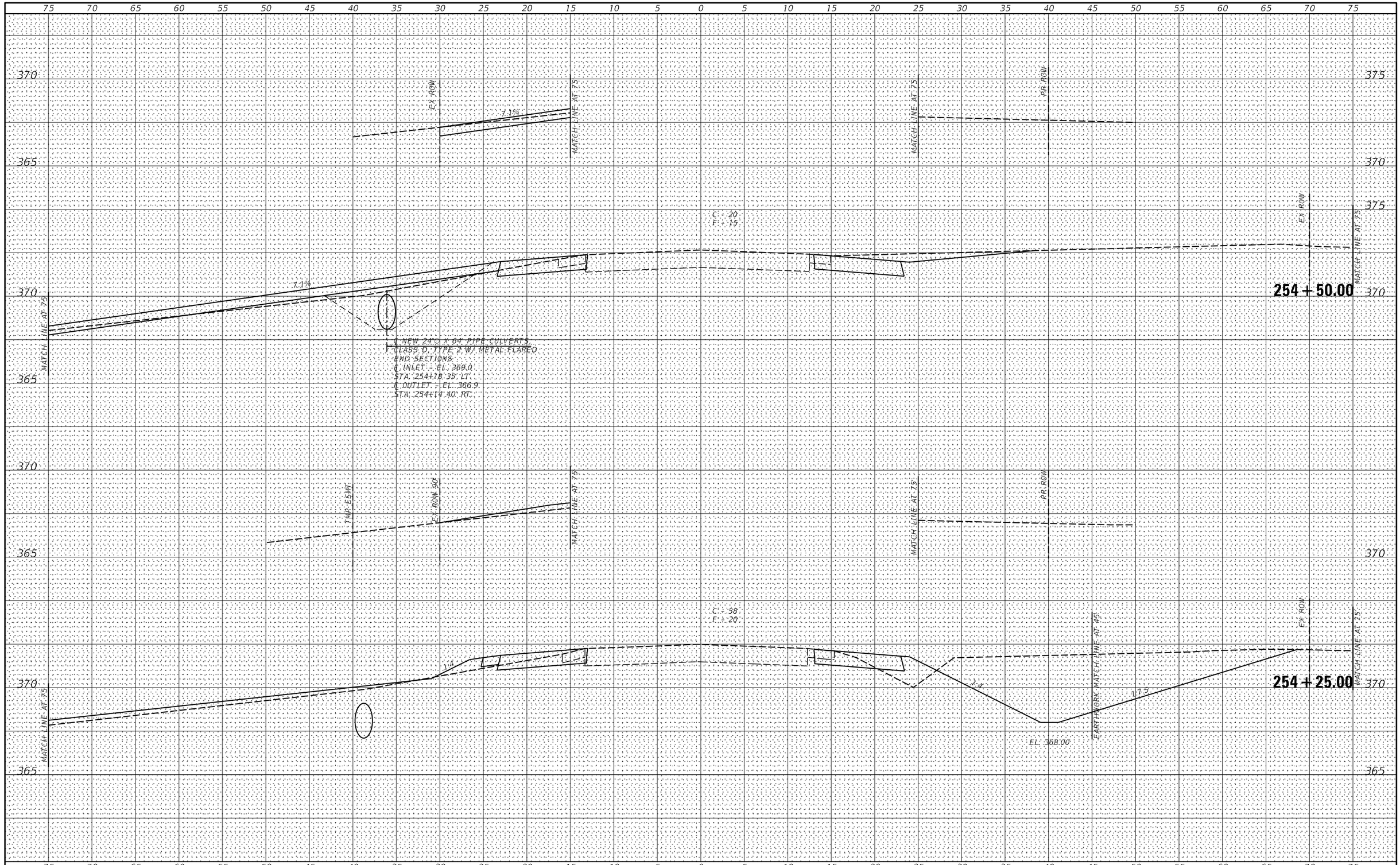
VEENSTRA & KIMM INC.	USER NAME = $USER$	DESIGNED -	REVISED -
Springfield, IL. Phone: (217)544-8033		DRAWN -	REVISED -
IL. Design Firm No. 184-001939	PLOT SCALE = $SCALE$	CHECKED -	REVISED -
	PLOT DATE = $DATE$	DATE - -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS – SN 039–2035

SCALE: _____ | SHEET NO. 7 OF 9 SHEETS | STA. 253+75.00 TO STA. 254+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
312	123B-7	JACKSON	101	92
			CONTRACT NO. 78790	
FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		



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

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

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

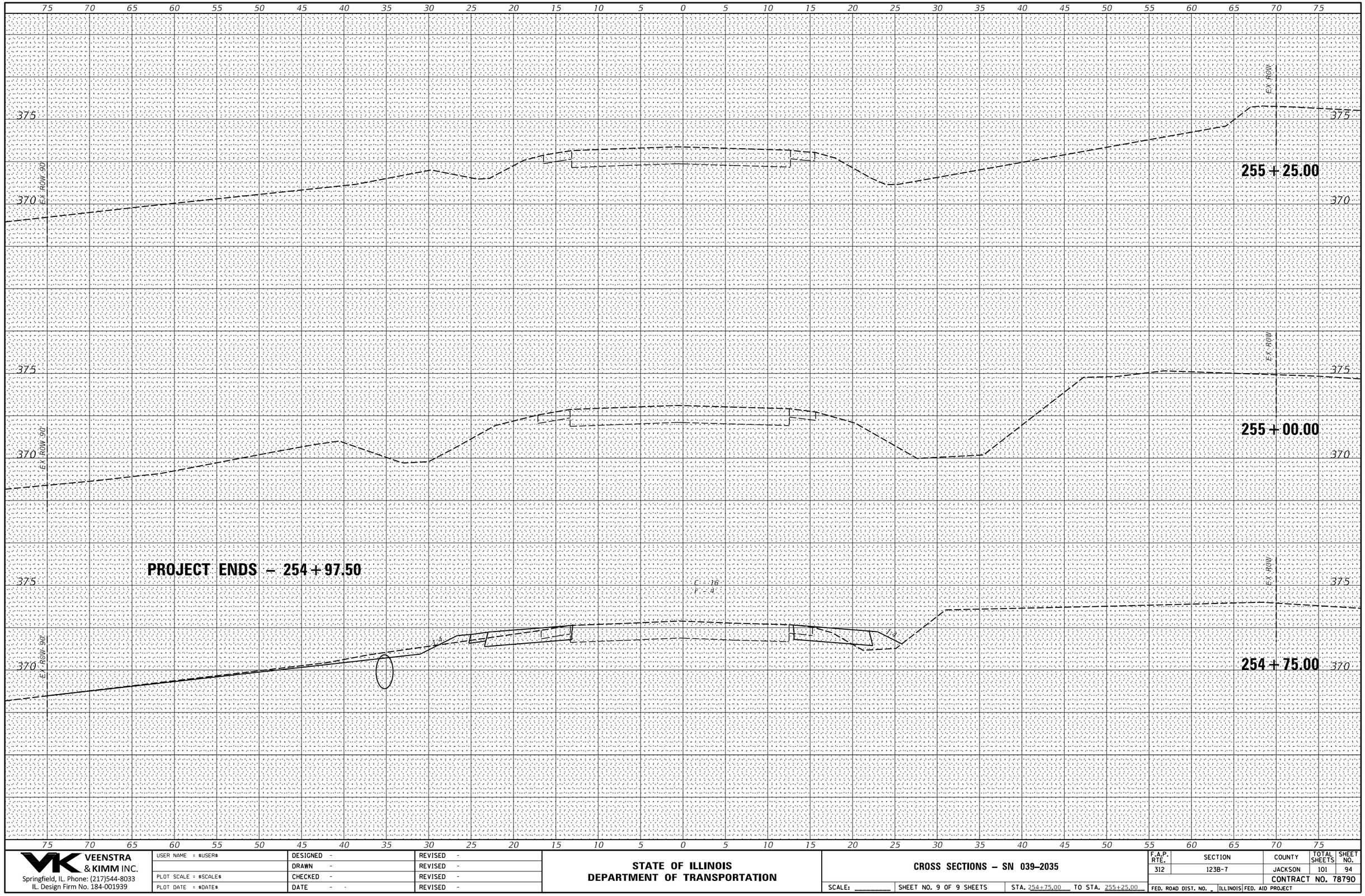
USER NAME = $USER$	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = $SCALE$	CHECKED -	REVISED -
PLOT DATE = $DATE$	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS – SN 039–2035

SCALE: _____ | SHEET NO. 8 OF 9 SHEETS | STA. 254+25.00 TO STA. 254+50.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
312	123B-7	JACKSON	101	93
		CONTRACT NO. 78790		
FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		



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

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

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

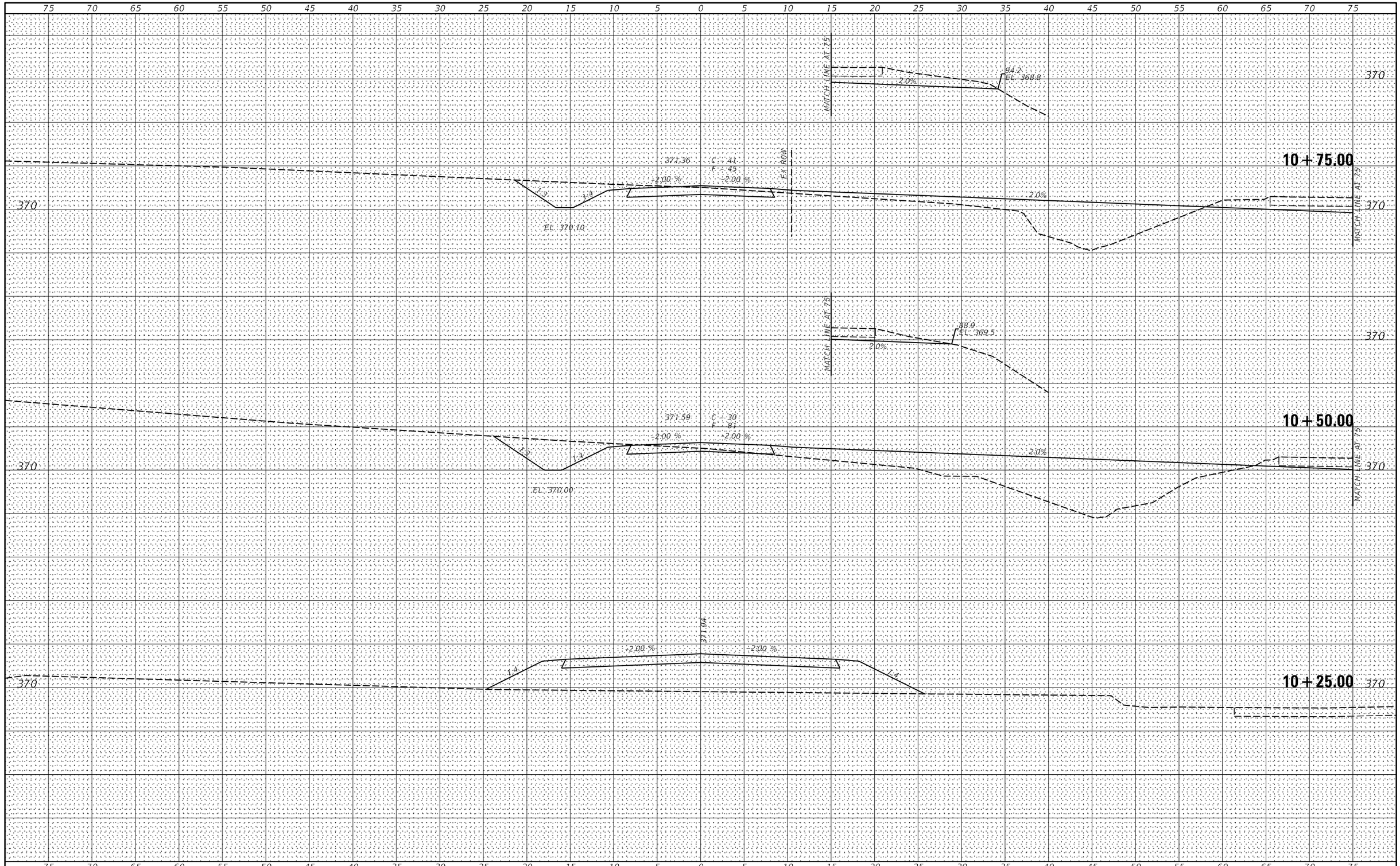
USER NAME = $USER$	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = $SCALE$	CHECKED -	REVISED -
PLOT DATE = $DATE$	DATE - -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS – SN 039–2035

SCALE: _____ | SHEET NO. 9 OF 9 SHEETS | STA. 254+75.00 TO STA. 255+25.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
312	123B-7	JACKSON	101	94
		CONTRACT NO. 78790		
FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		



FINAL SURVEY

NOTE BOOK	BY	DATE
NO.		

SURVEYED
PLOTTED
TEMPLATE
AREAS
AREAS CHECKED

ORIGINAL SURVEY

NOTE BOOK	BY	DATE

SURVEYED
PLOTTED
TEMPLATE
AREAS
AREAS CHECKED

Veenstra & Kimm, Inc.
Springfield, IL Phone: (217)544-8033

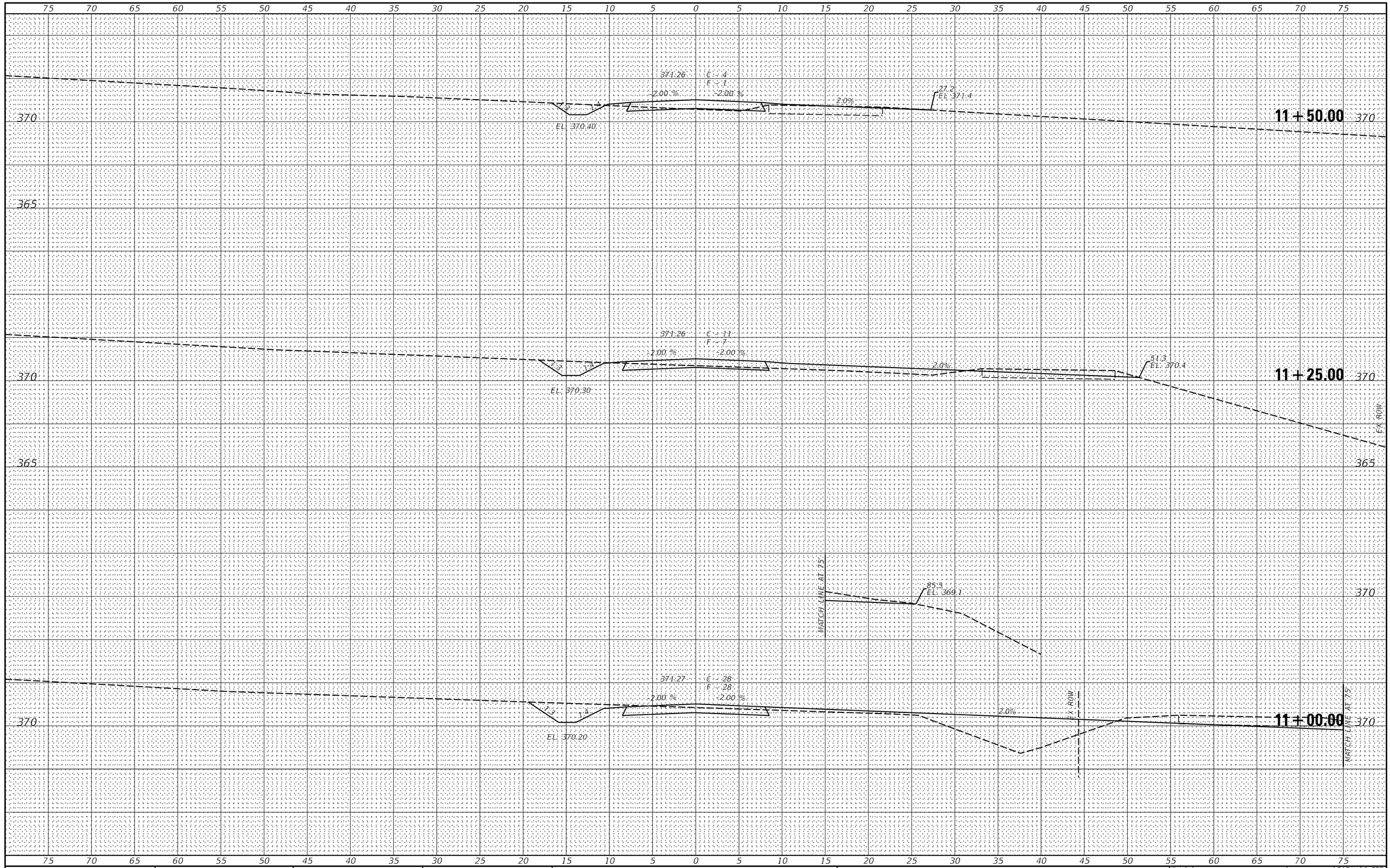
USER NAME = $USER$	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = $SCALE$	CHECKED -	REVISED -
PLOT DATE = $DATE$	DATE - -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS – PRIVATE ENTRANCE

SCALE: _____ SHEET NO. 1 OF 3 SHEETS STA. 10+25.00 TO STA. 10+75.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
312	125B-7	JACKSON	101	95
		CONTRACT NO. 78790		
FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		



FINAL SURVEY

NO.	NOTE BOOK	BY	DATE

SURVEYED
PLOTTED
TEMPLATE
AREAS
AREAS CHECKED

ORIGINAL SURVEY

NO.	NOTE BOOK	BY	DATE

SURVEYED
PLOTTED
TEMPLATE
AREAS
AREAS CHECKED

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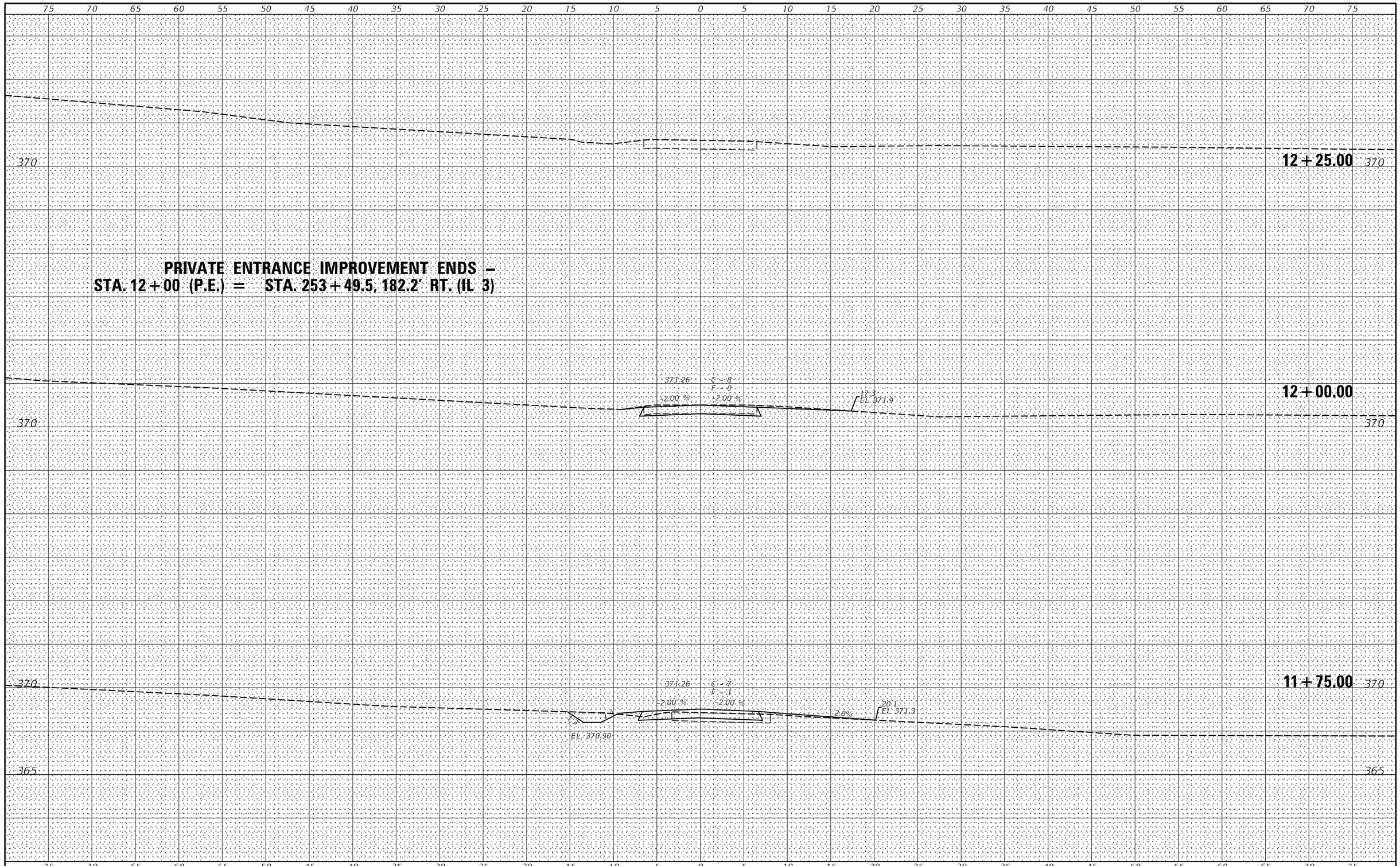
USER NAME = $USER$	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = $SCALE$	CHECKED -	REVISED -
PLOT DATE = $DATE$	DATE - -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS – PRIVATE ENTRANCE

SCALE: _____ | SHEET NO. 2 OF 3 SHEETS | STA. 11+00.00 TO STA. 11+50.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
312	125B-7	JACKSON	101	96
		CONTRACT NO. 78790		
FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		



FINAL SURVEY

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

ORIGINAL SURVEY

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

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

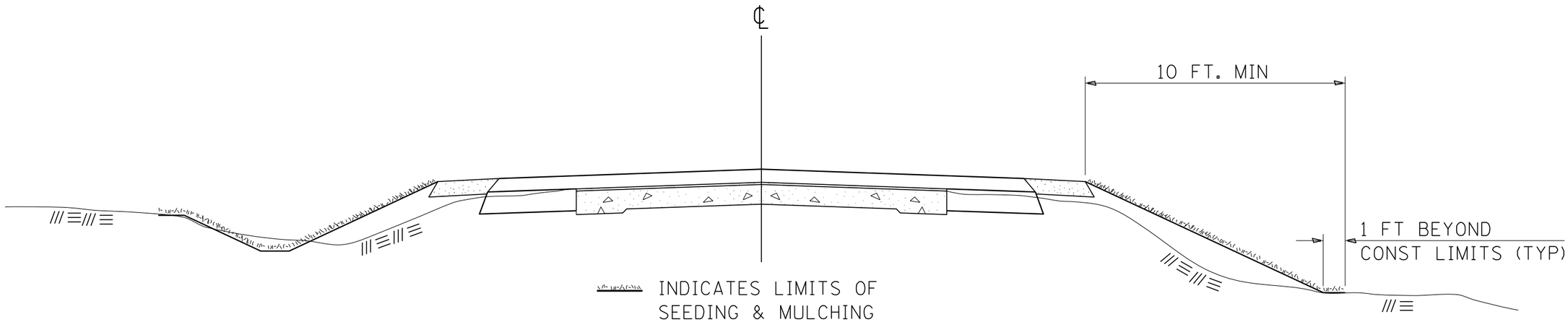
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS – PRIVATE ENTRANCE

SCALE: _____ SHEET NO. 3 OF 3 SHEETS STA. 11+75.00 TO STA. 12+25.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
312	125B-7	JACKSON	101	97
		CONTRACT NO. 78790		
FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		

SEEDING & MULCHING



GENERAL NOTES

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

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

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

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

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

REVISIONS

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

STD. 9-12

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

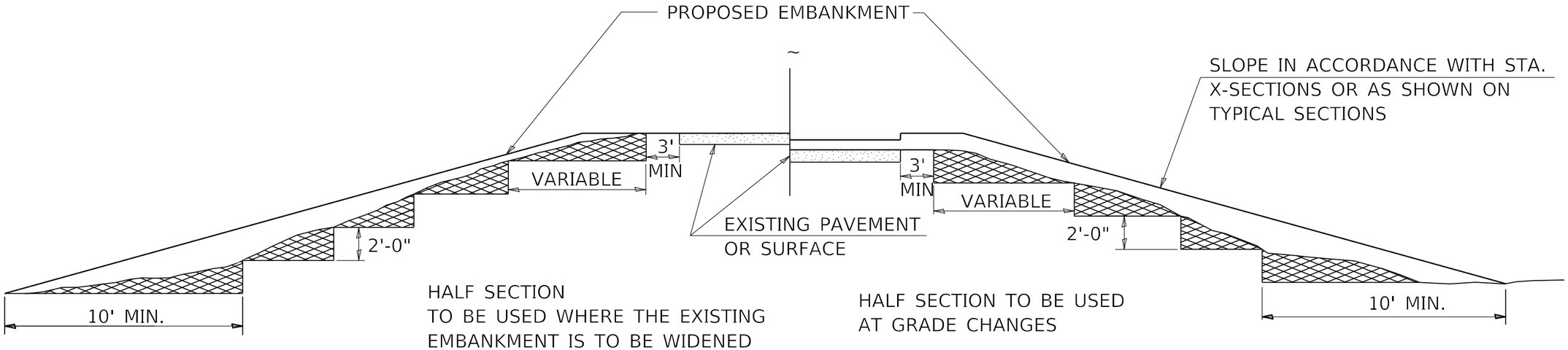
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT STANDARDS

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
312	125B-5, 125B-6, 125B-7	JACKSON	101	98
		CONTRACT NO. 78790		
	ILLINOIS FED. AID PROJECT			

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 CONTRUCTION OF THE EXISTING EMBANKMENT IS STARTED SHALL NOT APPLY. MATERIAL TO BE REMOVED AND REPLACED IN THE EMBANKMENT IN ACCORDANCE WITH ART. 205.04. COST TO BE INCLUDED IN THE VARIOUS ITEMS OF EXCAVATION AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED BECAUSE OF THIS WORK.

REVISIONS

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

STD. 9-16

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

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

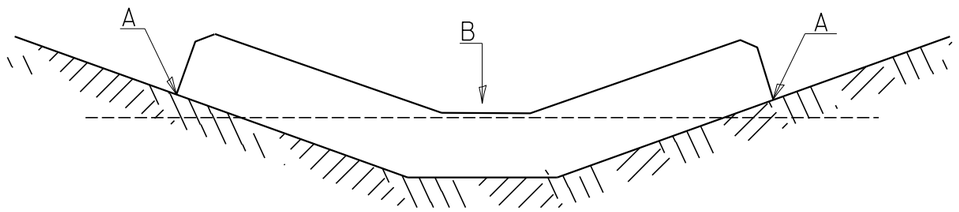
DISTRICT STANDARDS

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
312	125B-5, 125B-6, 125B-7	JACKSON	101	99
		CONTRACT NO. 78790		
	ILLINOIS FED. AID PROJECT			

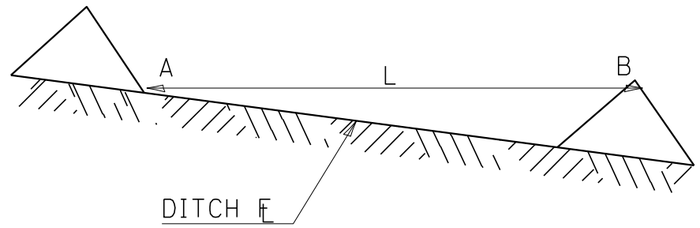
TEMPORARY DITCH CHECKS

PLACEMENT OF TEMPORARY DITCH CHECK IN DRAINAGE WAY



POINTS A SHOULD BE HIGHER THAN POINT B

SPACING BETWEEN TEMPORARY DITCH CHECKS



L = THE DISTANCE SUCH THAT POINTS A AND B ARE OF EQUAL ELEVATION

B = THE LOW POINT IN CENTER OF CHECK

REVISIONS

DRAWN	9-01-99
REVISED	10-3-01
RESIZED	5-8-08
REVISED	05-04-10
REVIEWED	5-17-13

STD. 9-108

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

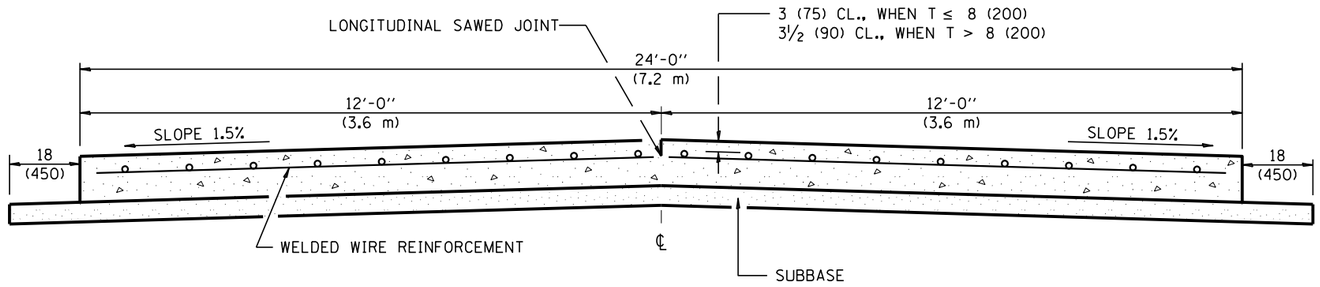
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT STANDARDS

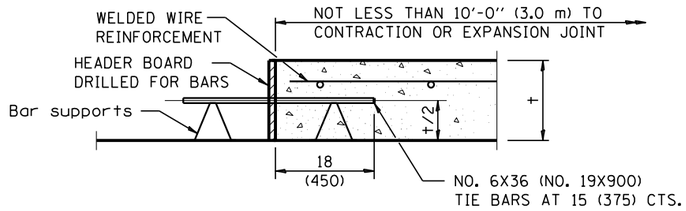
SCALE: | SHEET NO. __ OF __ SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
312	125B-5, 125B-6, 125B-7	JACKSON	101	100
		CONTRACT NO. 78790		
	ILLINOIS FED. AID PROJECT			

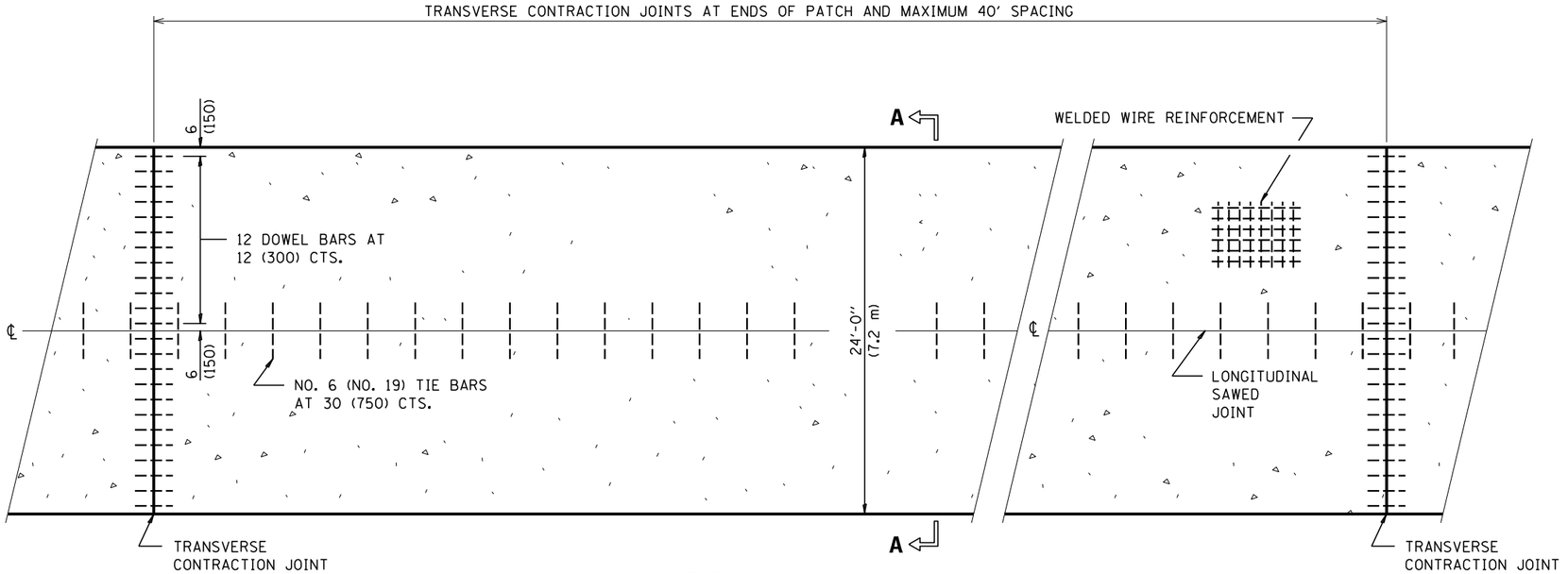
24' (7.2 m) PCC PAVEMENT
OVER BOX CULVERT



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

STD. 9-25

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

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT STANDARDS

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
312	125B-5, 125B-6, 125B-7	JACKSON	101	101
		CONTRACT NO. 78790		
	ILLINOIS FED. AID PROJECT			