06-12-2026 LETTING ITEM 177

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
14	136-1(B-2)	ALEXANDER	82	1
	ILLINOIS	CONTRACT NO. 78791		

FOR INDEX OF SHEETS, SEE SHEET NO. 3
FOR SUMMARY OF QUANTITIES, SEE SHEET NO. 4 TO 10

TRAFFIC DATA

ROADWAY CLASSIFICATION: MINOR ARTERIAL (RURAL)
CURRENT ADT (2017) = 2,700
DESIGN YEAR ADT (2040) = 3,390
SU = 4.1%
MU = 7.4%

TOWNSHIP

CACHE AND SANDUSKY

COORDINATE SYSTEM : STATE PLANE ZONE - ILLINOIS WEST
POSTED SPEED : 55 MPH

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

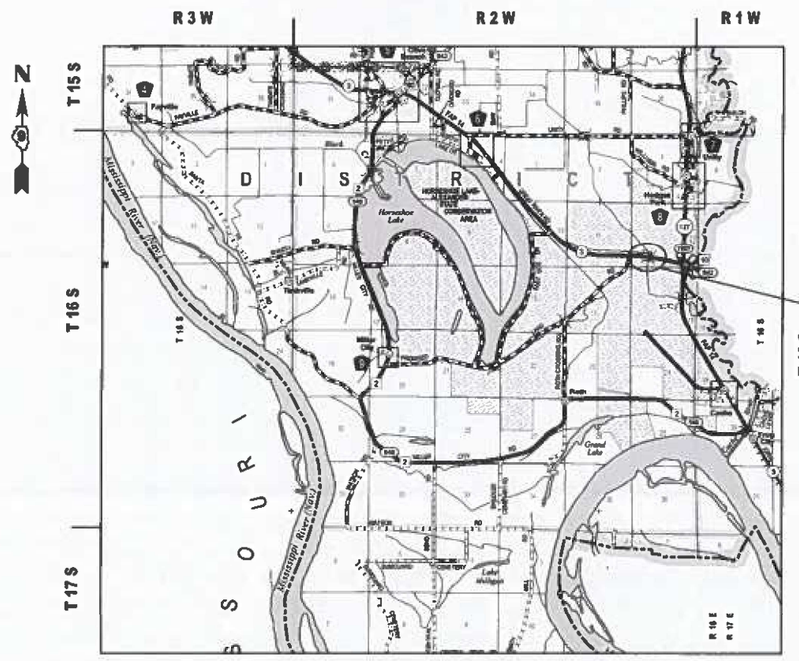
PROPOSED
HIGHWAY PLANS

FAP ROUTE 14 (IL 3)
SECTION 136-1(B-2)
PROJECT BR-RIYN(647)
STRUCTURE REPLACEMENT OVER UNNAMED DRAINAGE DITCH
ALEXANDER COUNTY

D-99-042-20

LOCATION OF SECTION INDICATED THUS: -

C-99-064-20



LOCATION MAP
GROSS LENGTH = 705.00 FT. = 0.134 MILE
NET LENGTH = 705.00 FT. = 0.134 MILE

IMPROVEMENT LIMITS - STA. 530+00 TO STA. 537+05
EX SN 002-0012 / PR SN 002-0038

100' 200' 300' — 1"= 100'
0 10' 20' 30' — 1"= 10'
0 50' 100' — 1"= 50'
0 50' 100' — 1"= 40'
0 50' 100' — 1"= 30'
0 50' 100' — 1"= 20'

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

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

PROJECT ENGINEER : BRANDY MAES, PE
PROJECT DESIGNER : CMT, INC.

CONTRACT NO. 78791

MATTHEW OVERBEY
062-064044
LICENSED PROFESSIONAL ENGINEER OF ILLINOIS

SEAL

SIGNATURE: Matthew J Overbey
DATE SIGNED: 02/25/2026
LICENSE EXPIRATION DATE: 11/30/2027

CMT
License No. 184-000813

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBMITTED March 9 20 26
Lora S. Ronsma
REGIONAL ENGINEER

May 8 20 26
ENGINEER OF DESIGN AND ENVIRONMENT

May 8 20 26
DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

Prepared By: _____
DISTRICT STUDIES & PLANS ENGINEER

Examined By: _____
DISTRICT LAND ACQUISITION ENGINEER

Examined By: _____
DISTRICT PROGRAM DEVELOPMENT ENGINEER

Examined By: _____
DISTRICT OPERATIONS ENGINEER

Examined By: _____
DISTRICT PROJECT IMPLEMENTATION ENGINEER

Examined By: _____
DISTRICT CONSTRUCTION ENGINEER

Examined By: _____
DISTRICT MATERIALS ENGINEER

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DEPARTMENT OF TRANSPORTATION

F.A.P 14 (ILLINOIS ROUTE 3)
SIGNATURE BLOCK

SCALE: | SHEET 1 OF 1 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
14	136-1(B-2)	ALEXANDER	82	2
		CONTRACT NO. 78791		
		ILLINOIS FED. AID PROJECT		

GENERAL NOTES

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

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

3. LONGITUDINAL JOINT SEALANT SHALL BE PLACED ALONG THE CENTERLINE JOINT, UNDER THE HMA SURFACE COURSE.

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

   ALL HOT-MIX ASPHALT . . . . . = 2.016 TONS / CU. YD.

   SUBBASE GRANULAR MATERIAL . . . . . = 2.05 TONS / CU. YD.

   RIPRAP . . . . . = 1.5 TONS / CU. YD.

   EARTH . . . . . = 110 LBS / CU. FT.

5. EDGE LINE PAVEMENT MARKING SHALL BE REMOVED IF A 10 FT LANE WIDTH CANNOT BE MAINTAINED. TEMPORARY EDGE LINES SHALL BE INSTALLED WHEN THE EDGE LINES ARE REMOVED.

HIGHWAY STANDARDS

000001-09	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
001001-02	AREAS OF REINFORCEMENT BARS
001006	DECIMAL OF AN INCH AND OF A FOOT
280001-07	TEMPORARY EROSION CONTROL SYSTEMS
420401-13	PAVEMENT CONNECTOR (PCC) FOR BRIDGE APPROACH SLAB
482001-02	HMA SHOULDER ADJACENT TO FLEXIBLE PAVEMENT
482006-03	HMA SHOULDER ADJACENT TO RIGID PAVEMENT
515001-04	NAME PLATE FOR BRIDGES
601101-02	CONCRETE HEADWALL FOR PIPE UNDERDRAINS
630001-13	STEEL PLATE BEAM GUARDRAIL
630201-07	PCC / HMA STABILIZATION AT STEEL PLATE BEAM GUARDRAIL
630301-09	SHOULDER WIDENING FOR TYPE 1 (SPECIAL) GUARDRAIL TERMINALS
631031-18	TRAFFIC BARRIER TERMINAL, TYPE 6
631051-03	TRAFFIC BARRIER TERMINAL, TYPE 11
642006-01	SHOULDER RUMBLE STRIPS, 8 IN.
701001-02	OFF-RD OPERATIONS, 2L, 2W, MORE THAN 15' AWAY
701006-05	OFF-RD OPERATIONS, 2L, 2W, 15' TO 24" FROM PAVEMENT EDGE
701011-04	OFF-RD MOVING OPERATIONS, 2L, 2W, DAY ONLY
701201-05	LANE CLOSURE 2L, 2W, DAY ONLY, FOR SPEEDS ≥ 45 MPH
701301-04	LANE CLOSURE 2L, 2W, SHORT TIME OPERATIONS
701311-03	LANE CLOSURE 2L, 2W, MOVING OPERATIONS
701321-19	LANE CLOSURE 2L, 2W, BRIDGE REPAIR WITH BARRIER
701901-11	TRAFFIC CONTROL DEVICES
704001-08	TEMPORARY CONCRETE BARRIER
725001-01	OBJECT AND TERMINAL MARKERS
780001-05	TYPICAL PAVEMENT MARKINGS
782006-01	GUARDRAIL AND BARRIER WALL REFLECTOR MOUNTING DETAILS
862001-01	UNINTERRUPTABLE POWER SUPPLY (UPS)

INDEX OF SHEETS

HMA MIXTURE AND LIFT THICKNESS REQUIREMENTS

Locations	Hot-Mix Asphalt Surface Course, Hot-Mix Asphalt Shoulders 10" (Top Lift)
Mixture Use(s):	Hot-Mix Asphalt Surface Course, Mix C, N70
PG:	PG64-22
Design Air Voids:	4.0%, 70 Gyration Design
Mixture Composition: (Gradation Mixture)	IL-9.5mm
Friction Aggregate:	Mix C
Mixture Weight:	112 lbs/sq yd/in
Quality Management Program:	QC/QA
Sublot Size:	3,000 tons
Material Transfer Device	No

Locations	Hot-Mix Asphalt Binder Course (Lift Thickness > 2 ½"), Hot-Mix Asphalt Shoulders 10" (Bottom Lifts)
Mixture Use(s):	Hot-Mix Asphalt Binder Course, 19.0, N70
PG:	PG64-22
Design Air Voids:	4.0%, 30 Gyration Design
Mixture Composition: (Gradation Mixture)	IL-19.0mm
Friction Aggregate:	None
Mixture Weight:	112 lbs/sq yd/in
Quality Management Program:	QC/QA
Sublot Size:	3,000 tons
Material Transfer Device	No

Locations	Hot-Mix Asphalt Binder Course (Lift thickness <= 2 ½")
Mixture Use(s):	Hot-Mix Asphalt Binder Course, IL-9.5FG, N70
PG64-22	PG64-22
Design Air Voids:	4.0%, 70 Gyration Design
Mixture Composition: (Gradation Mixture)	IL-9.5mm Fine Graded
Friction Aggregate:	None
Mixture Weight:	112 lbs/sq yd/in
Quality Management Program:	QC/QA
Sublot Size:	3,000 tons
Material Transfer Device	No

Mainline Binder, Lift thickness requirements:	
1 ¼"	Minimum lift thickness
4"	Maximum lift thickness
Contractor must adjust placement of Hot-Mix Asphalt Binder accordingly.	

Hot Mix Asphalt Shoulders 10", Lift thickness requirements:	
2"	Surface Course
4"	Binder Course
4"	Binder Course

COMMITMENTS

1. NO EQUIPMENT SHALL BE STORED WITHIN IDNR PROPERTY.

   THE CONTRACTOR WILL BE PERMITTED TO KEEP CONSTRUCTION EQUIPMENT WITHIN THE IDOT ROW BETWEEN WORK DAYS WHEN NECESSARY FOR OPERATIONS SUCH AS PILING INSTALLATION OR BEAM ERECTION. THE CONTRACTOR WILL NOT RE-MOBILIZE EQUIPMENT EACH DAY. UNDER NO CIRCUMSTANCES WILL CONSTRUCTION EQUIPMENT BE STORED OR STAGED WITHIN IDNR PROPERTY.

2. PARKING AND STAGING IN AREAS ADJACENT TO THE HORSESHOE LAKE ALEXANDER STATE CONSERVATION AREA SHALL BE AVOIDED. THIS INCLUDES THE PARKING AREA NEAR THE HUNTER CHECK STATION THAT CAN BE ACCESSED FROM THE ENTRANCE NEAR STA. 532+00 AND ALL OTHER AVAILABLE AREAS WITHIN THE PARK.

3. FENCING AND SIGANGE CLEARLY DELINEATING THE BOUNDARIES OF THE PARK SHOULD BE INSTALLED TO ENSURE NO DISTURBANCES OCCUR WITHIN THE PARK. HIGH VISIBILITY FENCE PLACED ALONG THE RIGHT OF WAY WITH TWO SIGNS. ONE SIGN AT EACH END OF THE FENCING PLACED ALONG THE RIGHT OF WAY LINE. SIGNS ARE TO SAY "IDNR PROPERTY - DO NOT DISTURB".

4. CONTRACTOR TO CONTACT IDNR SITE SUPERINTENDENT FOR COORDINATION OF CLOSING ENTRANCES TO IDNR PROPERTY (OFF PHONE NUMBER 618-776-5689).

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DEPARTMENT OF TRANSPORTATION

F.A.P 14 (ILLINOIS ROUTE 3)
GENERAL NOTES, HIGHWAY STANDARDS & INDEX OF SHEETS

SCALE: | SHEET 1 OF 1 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
14	136-1(B-2)	ALEXANDER	82	3
		CONTRACT NO. 78791		
	ILLINOIS	FED. AID PROJECT		

				CONSTRUCTION CODE	
				F.A.P. 14 - ALEXANDER COUNTY FUNDING: 80% FEDERAL, 20% STATE	
CODE NO.	ITEM	UNIT	TOTAL QUANTITY	ROADWAY	BRIDGE
				0010	0010
				RURAL	S.N.002-0038
20200100	EARTH EXCAVATION	CU YD	125	125	
20300100	CHANNEL EXCAVATION	CU YD	965	965	
20400800	FURNISHED EXCAVATION	CU YD	700	700	
25000210	SEEDING, CLASS 2A	ACRE	0.50	0.50	
25000350	SEEDING, CLASS 7	ACRE	0.50	0.50	
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	45	45	
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	45	45	
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	45	45	
25000700	AGRICULTURAL GROUND LIMESTONE	TON	1.1	1.1	
25100630	EROSION CONTROL BLANKET	SQ YD	2,310	2,310	
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	50	50	
28000400	PERIMETER EROSION BARRIER	FOOT	1,382	1,382	
28100105	STONE RIPRAP, CLASS A3	SQ YD	112	112	
28100107	STONE RIPRAP, CLASS A4	SQ YD	2,210		2,210

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.P 14 (ILLINOIS ROUTE 3)
SUMMARY OF QUANTITIES

SCALE: | SHEET 1 OF 7 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
14	136-1(B-2)	ALEXANDER	82	4
		CONTRACT NO. 78791		
		ILLINOIS	FED. AID PROJECT	

				CONSTRUCTION CODE	
				F.A.P. 14 - ALEXANDER COUNTY FUNDING: 80% FEDERAL, 20% STATE	
CODE NO.	ITEM	UNIT	TOTAL QUANTITY	ROADWAY 0010 RURAL	BRIDGE 0010 S.N.002-0038
28200200	FILTER FABRIC	SQ YD	2,322	112	2,210
31100300	SUBBASE GRANULAR MATERIAL, TYPE A 4"	SQ YD	1,281	1,281	
35102000	AGGREGATE BASE COURSE, TYPE B 8"	SQ YD	145	145	
40600275	BITUMINOUS MATERIALS (PRIME COAT)	POUND	2,633	2,633	
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	988	988	
40600370	LONGITUDINAL JOINT SEALANT	FOOT	485	485	
40602970	HOT-MIX ASPHALT BINDER COURSE, IL-9.5FG, N70	TON	104	104	
40603085	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70	TON	70	70	
40604052	HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "C", N70	TON	113	113	
42000060	WELDED WIRE REINFORCEMENT	SQ YD	144	144	
42000080	PAVEMENT CONNECTOR (PCC) FOR BRIDGE APPROACH SLAB	SQ YD	144	144	
42001300	PROTECTIVE COAT	SQ YD	144	144	
44000100	PAVEMENT REMOVAL	SQ YD	243	243	
44000155	HOT-MIX ASPHALT SURFACE REMOVAL, 1 1/2"	SQ YD	1,007	1,007	

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.P 14 (ILLINOIS ROUTE 3)
SUMMARY OF QUANTITIES

SCALE: | SHEET 2 OF 7 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
14	136-1(B-2)	ALEXANDER	82	5
		CONTRACT NO. 78791		
		ILLINOIS	FED. AID PROJECT	

				CONSTRUCTION CODE	
				F.A.P. 14 - ALEXANDER COUNTY FUNDING: 80% FEDERAL, 20% STATE	
CODE NO.	ITEM	UNIT	TOTAL QUANTITY	ROADWAY 0010 RURAL	BRIDGE 0010 S.N.002-0038
44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	81	81	
44004250	PAVED SHOULDER REMOVAL	SQ YD	960	960	
48203037	HOT-MIX ASPHALT SHOULDERS, 10"	SQ YD	970	970	
50100100	REMOVAL OF EXISTING STRUCTURES	EACH	1		1
50105220	PIPE CULVERT REMOVAL	FOOT	163	163	
50200100	STRUCTURE EXCAVATION	CU YD	230		230
50200300	COFFERDAM EXCAVATION	CU YD	329		329
50201101	COFFERDAM (TYPE 1) (LOCATION - 1)	EACH	1		1
50201102	COFFERDAM (TYPE 1) (LOCATION - 2)	EACH	1		1
50300225	CONCRETE STRUCTURES	CU YD	220.5		220.5
50300255	CONCRETE SUPERSTRUCTURE	CU YD	179.4		179.4
50300260	BRIDGE DECK GROOVING	SQ YD	635		635
50300300	PROTECTIVE COAT	SQ YD	824		824
50301350	CONCRETE SUPERSTRUCTURE (APPROACH SLAB)	CU YD	94.6		94.6

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.P 14 (ILLINOIS ROUTE 3)
SUMMARY OF QUANTITIES

SCALE: | SHEET 3 OF 7 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
14	136-1(B-2)	ALEXANDER	82	6
		CONTRACT NO. 78791		
		ILLINOIS	FED. AID PROJECT	

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE F.A.P. 14 - ALEXANDER COUNTY FUNDING: 80% FEDERAL, 20% STATE ROADWAY 0010 RURAL	CONSTRUCTION CODE F.A.P. 14 - ALEXANDER COUNTY FUNDING: 80% FEDERAL, 20% STATE BRIDGE 0010 S.N.002-0038
50500105	FURNISHING AND ERECTING STRUCTURAL STEEL	L SUM	1		1
50500505	STUD SHEAR CONNECTORS	EACH	4,032		4,032
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	95,940		95,940
50800515	BAR SPLICERS	EACH	859		859
51201900	FURNISHING STEEL PILES HP14X89	FOOT	2,205		2,205
51202305	DRIVING PILES	FOOT	2,205		2,205
51203900	TEST PILE STEEL HP14X89	EACH	4		4
51500100	NAME PLATES	EACH	1		1
52100010	ELASTOMERIC BEARING ASSEMBLY, TYPE I	EACH	12		12
52100510	ANCHOR BOLTS, 3/4"	EACH	48		48
52200020	TEMPORARY SOIL RETENTION SYSTEM	SQ FT	218		218
58600101	GRANULAR BACKFILL FOR STRUCTURES	CU YD	83		83
60100060	CONCRETE HEADWALLS FOR PIPE DRAINS	EACH	4		4
60146304	PIPE UNDERDRAINS FOR STRUCTURES 4"	FOOT	110		110

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.P 14 (ILLINOIS ROUTE 3)
SUMMARY OF QUANTITIES

SCALE: | SHEET 4 OF 7 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
14	136-1(B-2)	ALEXANDER	82	7
		CONTRACT NO. 78791		
		ILLINOIS FED. AID PROJECT		

	CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE F.A.P. 14 - ALEXANDER COUNTY FUNDING: 80% FEDERAL, 20% STATE ROADWAY 0010 RURAL	CONSTRUCTION CODE F.A.P. 14 - ALEXANDER COUNTY FUNDING: 80% FEDERAL, 20% STATE BRIDGE 0010 S.N.002-0038
	60500060	REMOVING INLETS	EACH	4	4	
*	63000001	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	FOOT	62.5	62.5	
*	63100085	TRAFFIC BARRIER TERMINAL, TYPE 6	EACH	4	4	
*	63100110	TRAFFIC BARRIER TERMINAL, TYPE 11	EACH	2	2	
*	63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	5	5	
*	63100169	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) FLARED	EACH	1	1	
	63200310	GUARDRAIL REMOVAL	FOOT	375	375	
	64200108	SHOULDER RUMBLE STRIPS, 8 INCH	FOOT	800	800	
	67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	16	16	
	67100100	MOBILIZATION	L SUM	1	1	
	70100405	TRAFFIC CONTROL AND PROTECTION, STANDARD 701321	EACH	1	1	
	70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	L SUM	1	1	
	70103815	TRAFFIC CONTROL SURVEILLANCE	CAL DA	6	6	
	70106500	TEMPORARY BRIDGE TRAFFIC SIGNALS	EACH	1	1	

* SPECIALTY ITEM

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.P 14 (ILLINOIS ROUTE 3)
SUMMARY OF QUANTITIES

SCALE: | SHEET 5 OF 7 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
14	136-1(B-2)	ALEXANDER	82	8
		CONTRACT NO. 78791		
		ILLINOIS	FED. AID PROJECT	

				CONSTRUCTION CODE	
				F.A.P. 14 - ALEXANDER COUNTY FUNDING: 80% FEDERAL, 20% STATE	
CODE NO.	ITEM	UNIT	TOTAL QUANTITY	ROADWAY 0010 RURAL	BRIDGE 0010 S.N.002-0038
70106700	TEMPORARY RUMBLE STRIPS	EACH	6	6	
70107005	PAVEMENT MARKING BLACKOUT TAPE, 5"	FOOT	1,098	1,098	
70107025	CHANGEABLE MESSAGE SIGN	CAL DA	28	28	
70300100	SHORT TERM PAVEMENT MARKING	FOOT	176	176	
70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SQ FT	517	517	
70300221	TEMPORARY PAVEMENT MARKING - LINE 4"- PAINT	FOOT	1,587	1,587	
70400100	TEMPORARY CONCRETE BARRIER	FOOT	950	950	
70400125	PINNING TEMPORARY CONCRETE BARRIER	EACH	36	36	
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	200	200	
70600251	IMPACT ATTENUATORS, TEMPORARY (NON- REDIRECTIVE, NARROW), TEST LEVEL 3	EACH	2	2	
70600352	IMPACT ATTENUATORS, RELOCATE (NON- REDIRECTIVE,NARROW), TEST LEVEL 3	EACH	2	2	
* 72501000	TERMINAL MARKER - DIRECT APPLIED	EACH	6	6	
* 78001110	PAINT PAVEMENT MARKING - LINE 4"	FOOT	1,587	1,587	
* 78200005	GUARDRAIL REFLECTORS, TYPE A	EACH	20	20	

* SPECIALTY ITEM

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.P 14 (ILLINOIS ROUTE 3)
SUMMARY OF QUANTITIES

SCALE: | SHEET 6 OF 7 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
14	136-1(B-2)	ALEXANDER	82	9
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	ILLINOIS FED. AID PROJECT			

	CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE F.A.P. 14 - ALEXANDER COUNTY FUNDING: 80% FEDERAL, 20% STATE ROADWAY 0010 RURAL	CONSTRUCTION CODE F.A.P. 14 - ALEXANDER COUNTY FUNDING: 80% FEDERAL, 20% STATE BRIDGE 0010 S.N.002-0038
*	78200011	BARRIER WALL REFLECTORS, TYPE C	EACH	50	50	
	78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	12	12	
	78300201	PAVEMENT MARKING REMOVAL - GRINDING	SQ FT	1,060	1,060	
*	86200300	UNINTERRUPTABLE POWER SUPPLY, EXTENDED	EACH	1	1	
	X2011001	HIGH VISIBILITY TEMPORARY FENCING	FOOT	2,292	2,292	
	X5080530	BAR TERMINATORS	EACH	270		270
	Z0013798	CONSTRUCTION LAYOUT	L SUM	1	1	
Ø	Z0076600	TRAINEES	HOUR	1500	1500	
Ø	Z0076604	TRAINEES TRAINING PROGRAM GRADUATE	HOUR	1500	1500	

* SPECIALTY ITEM Ø 0042

REV - MS

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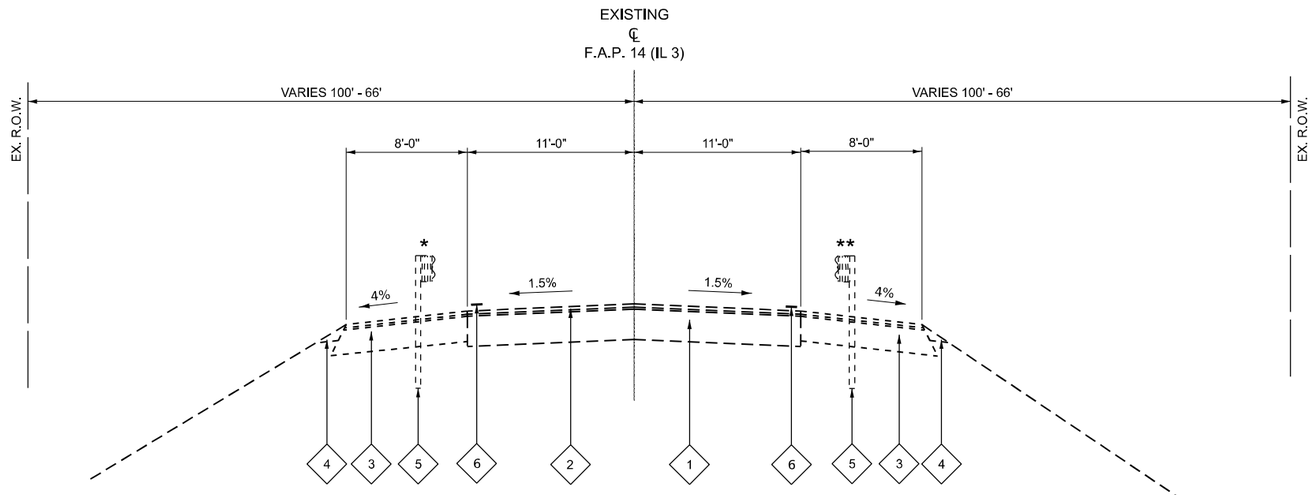
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.P 14 (ILLINOIS ROUTE 3)
SUMMARY OF QUANTITIES

SCALE: | SHEET 7 OF 7 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
14	136-1(B-2)	ALEXANDER	82	10
		CONTRACT NO. 78791		
	ILLINOIS	FED. AID PROJECT		



EXISTING F.A.P. 14 (IL RTE 3)

(LOOKING WEST)

STA. 530+00 TO STA. 533+03.60
EXISTING BRIDGE OMISSION
STA. 534+24.20 TO STA. 537+05

* EXISTING LEFT GUARDRAIL: STA. 532+06.47 TO STA. 533+01.08
STA. 534+26.37 TO STA. 535+17.69

** EXISTING RIGHT GUARDRAIL: STA. 532+09.24 TO STA. 533+01.19
STA. 534+26.33 TO STA. 535+20.64

TYPICAL SECTION LEGEND

1. EXISTING PCC PAVEMENT, 10"
2. EXISTING HMA (1")
   EXISTING HMA BINDER COURSE, 1¼"
   EXISTING HMA SURFACE COURSE, 1½"
3. EXISTING HMA SHOULDER, 9.75"
4. EXISTING AGG WEDGE SHOULDER
5. EXISTING GUARDRAIL
6. EXISTING PAVEMENT MARKING

MODEL: Existing [Sheet]
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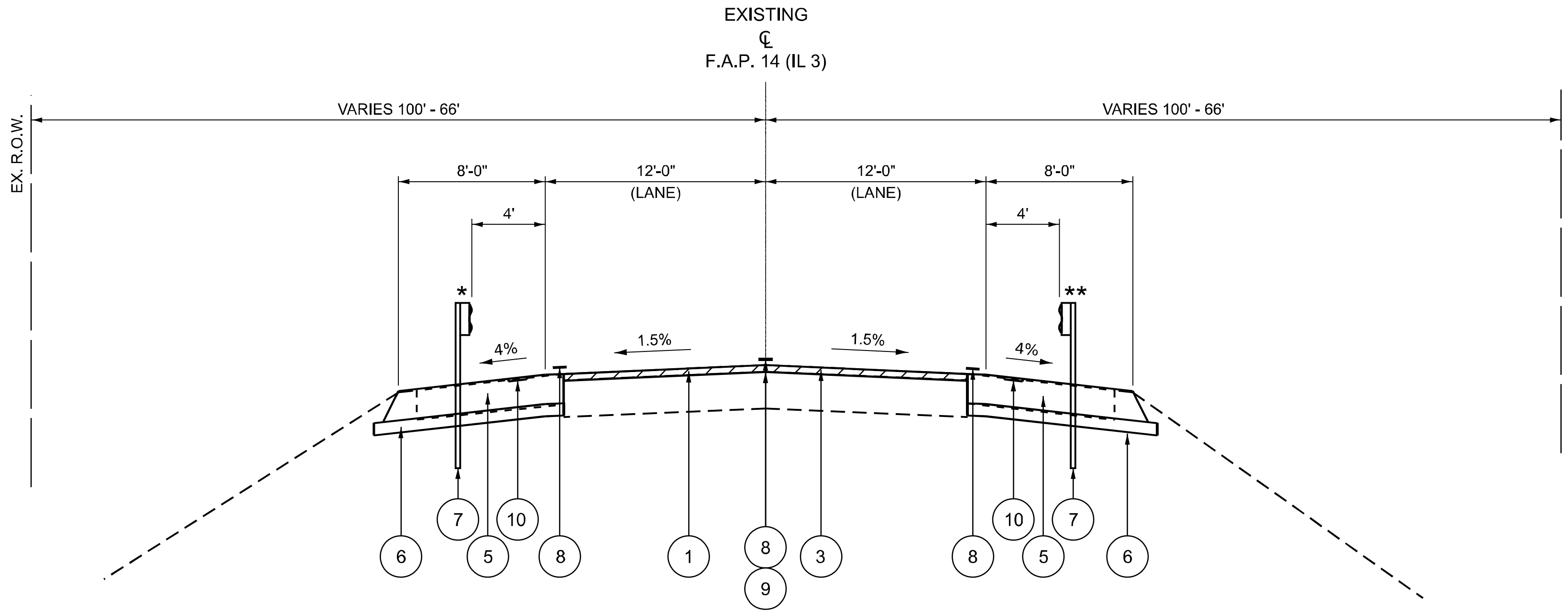
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.P 14 (ILLINOIS ROUTE 3)
TYPICAL SECTIONS - EXISTING

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
14	136-1(B-2)	ALEXANDER	82	11
		CONTRACT NO. 78791		
	ILLINOIS	FED. AID PROJECT		

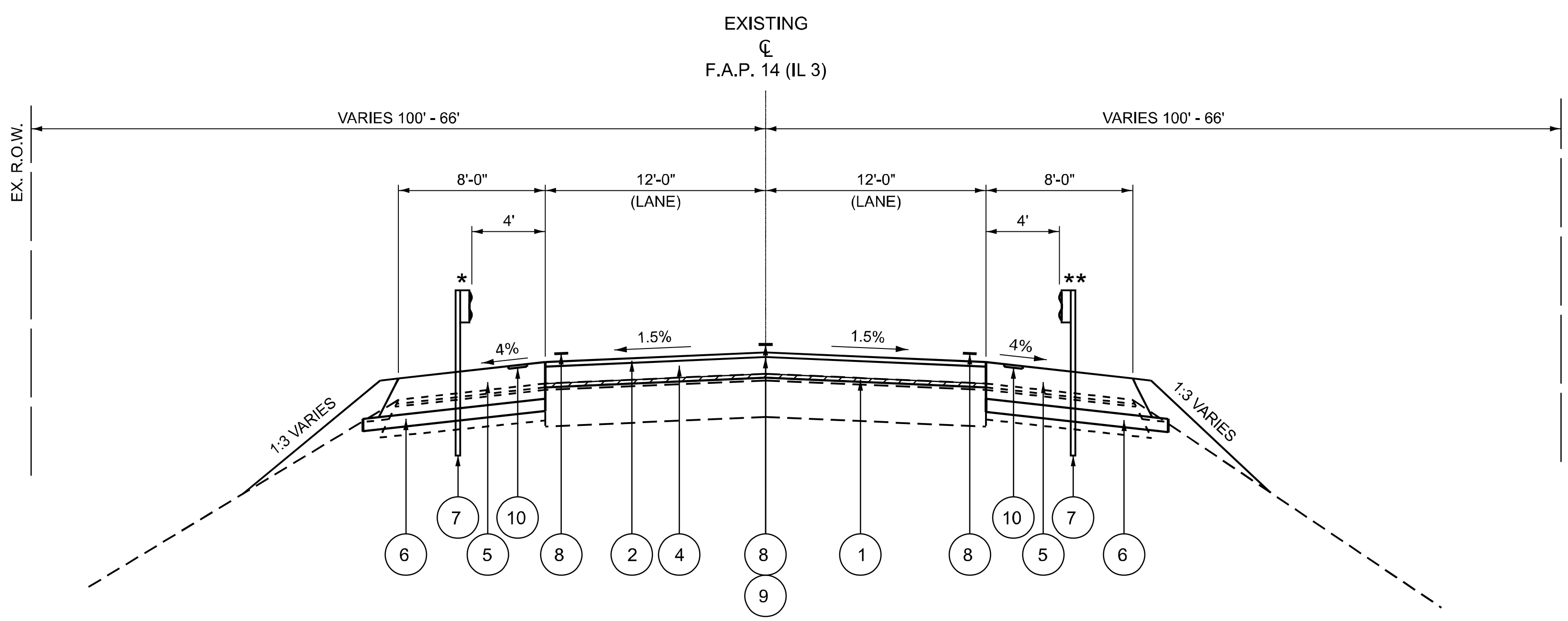


PROPOSED F.A.P. 14 (IL RTE 3)

(LOOKING WEST)

STA. 530+00.00 TO STA. 530+99.14
STA. 536+23.57 TO STA. 537+05.00

* PROPOSED LEFT GUARDRAIL:	STA. 531+96.74 TO STA. 532+83.67
	STA. 534+44.32 TO STA. 535+93.72
** PROPOSED RIGHT GUARDRAIL:	STA. 530+67.97 TO STA. 531+67.88
	STA. 532+09.43 TO STA. 532+83.82
	STA. 534+44.17 TO STA. 535+31.07



PROPOSED F.A.P. 14 (IL RTE 3)

(LOOKING WEST)

STA. 530+99.14 TO STA. 532+53.75
STA. 534+74.25 TO STA. 536+23.57

TYPICAL SECTION LEGEND

1. PROPOSED HOT-MIX ASPHALT SURFACE REMOVAL, 1½"
2. PROPOSED HOT-MIX ASPHALT SURFACE COURSE (1½")
3. PROPOSED HOT-MIX ASPHALT SURFACE COURSE (1½" TO 2¾")
4. PROPOSED HOT-MIX ASPHALT BINDER COURSE (1¼" TO 8¼")
5. PROPOSED HOT-MIX ASPHALT SHOULDER, 10"
6. PROPOSED SUBBASE GRANULAR MATERIAL TY "A", 4"
7. PROPOSED STEEL PLATE BEAM GUARDRAIL
8. PROPOSED PAINT PAVEMENT MARKING
9. PROPOSED LONGITUDINAL JOINT SEALANT
10. PROPOSED SHOULDER RUMBLE STRIPS, 8 INCH
11. PROPOSED PAVEMENT CONNECTOR (PCC)

MODEL: Proposed [Sheet]

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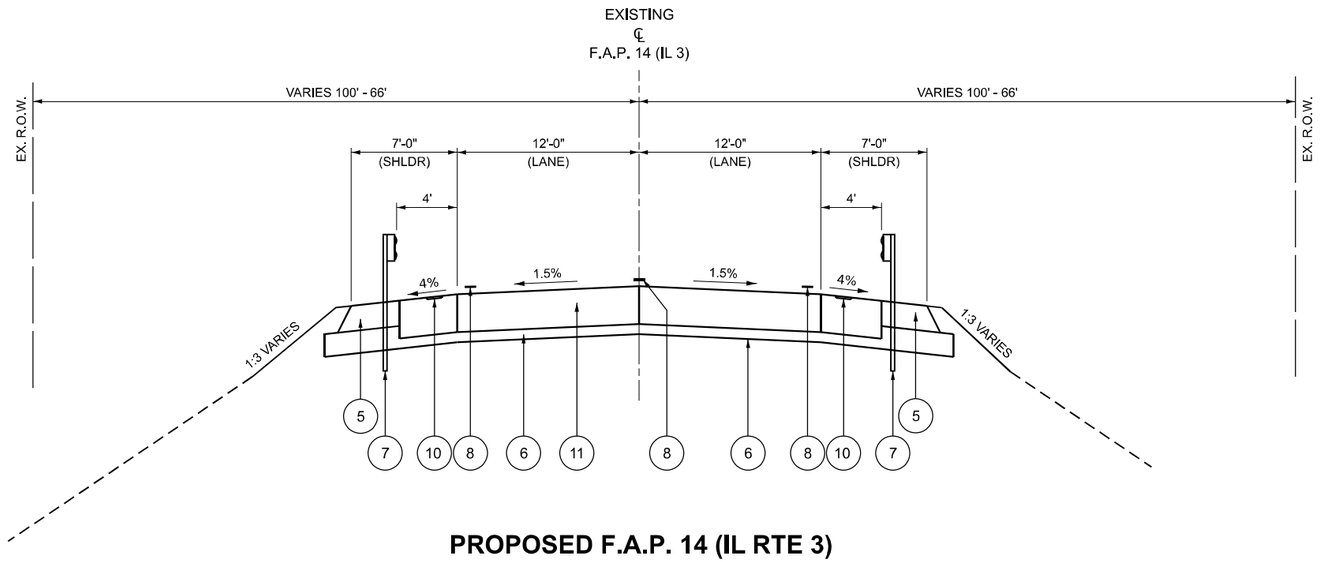
F.A.P 14 (ILLINOIS ROUTE 3)
TYPICAL SECTION - PROPOSED

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
14	136-1(B-2)	ALEXANDER	82	12
		CONTRACT NO. 78791		
	ILLINOIS	FED. AID PROJECT		



PROPOSED F.A.P. 14 (IL RTE 3)

(LOOKING WEST)

STA. 532+53.75 TO STA. 532+68.75
PROPOSED BRIDGE OMISSION STA. 532+68.75 TO STA. 534+59.25
STA. 534+59.25 TO STA. 534+74.25

* PROPOSED LEFT GUARDRAIL: STA. 531+96.74 TO STA. 532+83.67
STA. 534+44.32 TO STA. 535+93.72

** PROPOSED RIGHT GUARDRAIL: STA. 530+67.97 TO STA. 531+67.88
STA. 532+09.43 TO STA. 532+83.82
STA. 534+44.17 TO STA. 535+31.07

TYPICAL SECTION LEGEND

1. PROPOSED HOT-MIX ASPHALT SURFACE REMOVAL, 1½"
2. PROPOSED HOT-MIX ASPHALT SURFACE COURSE (1½")
3. PROPOSED HOT-MIX ASPHALT SURFACE COURSE (1½" TO 2¾")
4. PROPOSED HOT-MIX ASPHALT BINDER COURSE (1¼" TO 8¼")
5. PROPOSED HOT-MIX ASPHALT SHOULDER, 10"
6. PROPOSED SUBBASE GRANULAR MATERIAL TY "A", 4"
7. PROPOSED STEEL PLATE BEAM GUARDRAIL
8. PROPOSED PAINT PAVEMENT MARKING
9. PROPOSED LONGITUDINAL JOINT SEALANT
10. PROPOSED SHOULDER RUMBLE STRIPS, 8 INCH
11. PROPOSED PAVEMENT CONNECTOR (PCC)

MODEL: Typical-2A [Sheet]
FILE NAME: ...\Sheet\D978791-sht-typical.dgn

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.P 14 (ILLINOIS ROUTE 3)
TYPICAL SECTION - PROPOSED

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
14	136-1(B-2)	ALEXANDER	82	13
		CONTRACT NO. 78791		
	ILLINOIS	FED. AID PROJECT		

EARTHWORK SCHEDULE

LOCATION			EARTH EXCAVATION	EARTH EXCAVATION (25% ADJUSTED)	EMBANKMENT	EARTHWORK BALANCE		FURNISHED EXCAVATION	CHANNEL EXCAVATION	REMARKS
						EXCAVATION REQUIRED TO COMPLETE	EXCESS EXCAVATION			
STA.	TO	STA.	CU YD	CU YD	CU YD	CU YD	CU YD	CU YD	CU YD	
530+00.00	TO	533+00.00	50	38	291	254	0	254	965	
533+00.00	TO	534+40.00	1	1	82	81	0	81		
534+40.00	TO	537+05.00	74	56	421	366	0	366		
TOTALS			**125**					**700**	**965**	

SEEDING SCHEDULE

LOCATION				SEEDING, CLASS 2A	SEEDING, CLASS 7	NITROGEN FERTILIZER NUTRIENT	PHOSPHORUS FERTILIZER NUTRIENT	POTASSIUM FERTILIZER NUTRIENT	AGRICULTURAL GROUND LIMESTONE	EROSION CONTROL BLANKET
STA.	TO	STA.		ACRE	ACRE	POUND	POUND	POUND	TON	SQ YD
530+00.00	TO	535+50.00	LT	0.20	0.20	18	18	18	0.4	940
530+00.00	TO	535+50.00	RT	0.20	0.20	18	18	18	0.4	940
535+50.00	TO	537+05.00	LT	0.04	0.04	4	4	4	0.1	185
535+50.00	TO	537+05.00	RT	0.06	0.06	5	5	5	0.2	245
TOTAL				**0.50**	**0.50**	**45**	**45**	**45**	**1.1**	**2,310**

MODEL: SCH-1 [Sheet]
FILE NAME: ...Sheet\D978791-sht-schedule.dgn

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.P 14 (ILLINOIS ROUTE 3)
SCHEDULE OF QUANTITIES

SCALE: | SHEET 1 OF 5 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
14	136-1(B-2)	ALEXANDER	82	14
		CONTRACT NO. 78791		
	ILLINOIS	FED. AID PROJECT		

HOT-MIX ASPHALT PAVEMENT SCHEDULE

LOCATION			SUBBASE GRANULAR MATERIAL, TYPE A 4" **	BITUMINOUS MATERIALS (PRIME COAT)	BITUMINOUS MATERIALS (TACK COAT)	LONGITUDINAL JOINT SEALANT	HMA BINDER COURSE, IL-9.5FG, N70	HMA BINDER COURSE, IL-19.0, N70	HMA SURFACE COURSE, IL-9.5, MIX "C", N70	HOT-MIX ASPHALT SURFACE REMOVAL 1 1/2"	PAVED SHOULDER REMOVAL	HMA SHOULDERS, 10"	SHOULDER RUMBLE STRIPS, 8 INCH
STA.	TO	STA.	SQ YD	POUND	POUND	FOOT	TON	TON	TON	SQ YD	SQ YD	SQ YD	FOOT
530+00.00	TO	532+53.75	593	1,333	510	254	50.4	33.1	59.8	530	488	539	406
532+53.75	TO	532+83.67	28	62	11						19		
534+44.33	TO	534+59.25	28	63	11						19		
534+59.25	TO	537+05.00	524	1,175	456	231	53.5	36.0	52.3	477	444	476	394
TOTAL			**1,173**	**2,633**	**988**	**485**	**104**	**70**	**113**	**1,007**	**970**	**1,015**	**800**

**SEE PCC CONNECTOR SCHEDULE FOR ADDITIONAL SUBBASE GRANULAR MATERIAL, TYPE A 4"

PCC CONNECTOR SCHEDULE

LOCATION			SUBBASE GRANULAR MATERIAL, TYPE A 4" **	WELDED WIRE REINFORCEMENT	PAVEMENT CONNECTOR (PCC) FOR BRIDGE APPROACH SLAB	PROTECTIVE COAT
STA.	TO	STA.	SQ YD	SQ YD	SQ YD	SQ YD
532+53.75	TO	533+04.00	54	72	72	72
534+24.00	TO	534+74.25	54	72	72	72
TOTAL			**108**	**144**	**144**	**144**

**SEE HOT-MIX ASPHALT PAVEMENT SCHEDULE FOR ADDITIONAL SUBBASE GRANULAR MATERIAL, TYPE A 4"

PAVEMENT REMOVAL SCHEDULE

LOCATION			PAVEMENT REMOVAL	COMBINATION CURB AND GUTTER REMOVAL
STA.	TO	STA.	SQ YD	FOOT
532+53.75	TO	533+04.00	121	40
534+24.00	TO	534+74.25	122	41
TOTAL			**243**	**81**

MODEL: SCH-2 [Sheet]
FILE NAME: ...Sheet\D978791-sht-schedule.dgn

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.P 14 (ILLINOIS ROUTE 3)
SCHEDULE OF QUANTITIES

SCALE: | SHEET 2 OF 5 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
14	136-1(B-2)	ALEXANDER	82	15
		CONTRACT NO. 78791		
	ILLINOIS	FED. AID PROJECT		

PAVEMENT MARKING SCHEDULE

LOCATION			PAINT PAVEMENT MARKING - LINE 4"		PAVEMENT MARKING REMOVAL - GRINDING
			WHITE	YELLOW	
STA.	TO	STA.	FOOT	FOOT	SQ FT
530+00.00	TO	535+50.00	1,000	125	376
535+50.00	TO	537+05.00	410	52	155
TOTAL			**1,587**		**531**

TEMPORARY PAVEMENT MARKING SCHEDULE

LOCATION			PAVEMENT MARKING BLACKOUT TAPE, 5"	SHORT TERM PAVEMENT MARKING	SHORT TERM PAVEMENT MARKING REMOVAL	* TEMPORARY PAVEMENT MARKING - LINE 4" - PAINT	* PAVEMENT MARKING REMOVAL - GRINDING
STA.	TO	STA.	FOOT	FOOT	SQ FT	FOOT	SQ FT
529+01.22	TO	535+00.00	540	108	261	1,125	375
535+00.00	TO	538+72.76	558	68	256	462	154
TOTAL			**1,098**	**176**	**517**	**1,587**	**529**

* QUANTITY INCLUDED IF FINAL MARKINGS CANNOT BE PLACED WITHIN TIME RESTRICTIONS LISTED IN THE STANDARD SPECS.

MODEL: SCH-3 [Sheet]
FILE NAME: ...Sheet\D978791-sht-schedule.dgn

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.P 14 (ILLINOIS ROUTE 3)
SCHEDULE OF QUANTITIES

SCALE: | SHEET 3 OF 5 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
14	136-1(B-2)	ALEXANDER	82	16
		CONTRACT NO. 78791		
	ILLINOIS	FED. AID PROJECT		

MAINTENANCE OF TRAFFIC SCHEDULE

LOCATION			TRAFFIC BARRIER TERMINAL, TYPE 11	TEMPORARY CONCRETE BARRIER	RELOCATE TEMPORARY CONCRETE BARRIER	PINNING TEMPORARY CONCRETE BARRIER	IMPACT ATTENUATOR, TEMPORARY (NON-REDIRECTIVE, NARROW), TEST LEVEL 3	IMPACT ATTENUATOR, RELOCATE (NON-REDIRECTIVE, NARROW), TEST LEVEL 3	BARRIER WALL REFLECTORS, TYPE C
STA.	TO	STA.		FOOT	FOOT	EACH	EACH	EACH	EACH
STAGE 1									
528+75.00	TO	529+75.00	1	100			1		5
537+25.00	TO	538+25.00	1	100			1		5
STAGE 2									
528+75.00	TO	530+50.00		75	100			1	8
530+50.00	TO	536+50.00		600		18			24
536+50.00	TO	538+25.00		75	100	18		1	8
TOTAL			**2**	**950**	**200**	**36**	**2**	**2**	**50**

GUARDRAIL SCHEDULE

LOCATION				STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	TRAFFIC BARRIER TERMINAL, TYPE 6	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) FLARED	TERMINAL MARKER - DIRECT APPLIED	GUARDRAIL REFLECTORS, TYPE A
STA.	TO	STA.	OFFSET	FOOT	EACH	EACH	EACH	EACH	EACH
530+67.97	TO	531+67.88	RT			2		2	4
531+96.74	TO	532+83.67	LT		1	1		1	4
532+09.43	TO	532+83.82	RT		1		1	1	4
534+44.32	TO	535+93.72	LT	62.5	1	1		1	4
534+44.17	TO	535+31.07	RT		1	1		1	4
TOTAL				**62.5**	**4**	**5**	**1**	**6**	**20**

MODEL: SCH-4 [Sheet]
FILE NAME: ...\Sheet\D978791-sh1-schedule.dgn

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.P 14 (ILLINOIS ROUTE 3)
SCHEDULE OF QUANTITIES

SCALE: | SHEET 4 OF 5 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
14	136-1(B-2)	ALEXANDER	82	17
		CONTRACT NO. 78791		
	ILLINOIS	FED. AID PROJECT		

EROSION CONTROL SCHEDULE

LOCATION				FILTER FABRIC *	STONE RIPRAP, CLASS A3 *	PERIMETER EROSION BARRIER	TEMPORARY EROSION CONTROL SEEDING
STA.	TO	STA.		SQ YD	SQ YD	FOOT	POUND
530+00.00	TO	535+50.00	LT	55	55	425	20
530+00.00	TO	535+50.00	RT	57	57	537	20
535+50.00	TO	537+05.00	LT			240	4
535+50.00	TO	537+05.00	RT			180	6
TOTAL				**112**	**112**	**1,382**	**50**

*ADDITIONAL RIPRAP AND FILTER FABRIC QUANTITY SHOWN ON THE STRUCTURAL BILL OF MATERIAL.

ENTRANCE SCHEDULE

LOCATION		AGGREGATE BASE COURSE, TYPE B 8"
STA.		SQ YD
531+86.44	RT	48
536+45.46	LT	62
536+54.84	RT	35
TOTAL		**145**

DRAINAGE REMOVAL SCHEDULE

LOCATION		PIPE CULVERT REMOVAL	REMOVING INLETS
STA.		FOOT	EACH
532+85.01	LT	49	1
532+85.17	RT	38	1
534+42.33	LT	35	1
534+43.11	RT	41	1
TOTAL		**163**	**4**

GUARDRAIL REMOVAL SCHEDULE

LOCATION				GUARDRAIL REMOVAL
STA.	TO	STA.	OFFSET	FOOT
532+06.47	TO	533+01.08	LT	95
532+09.24	TO	533+01.19	RT	93
532+85.12	TO	535+20.64	RT	95
534+42.78	TO	535+17.69	LT	92
TOTAL				**375**

MODEL: SCH-5 [Sheet]
FILE NAME: ...Sheet\D978791-sht-schedule.dgn

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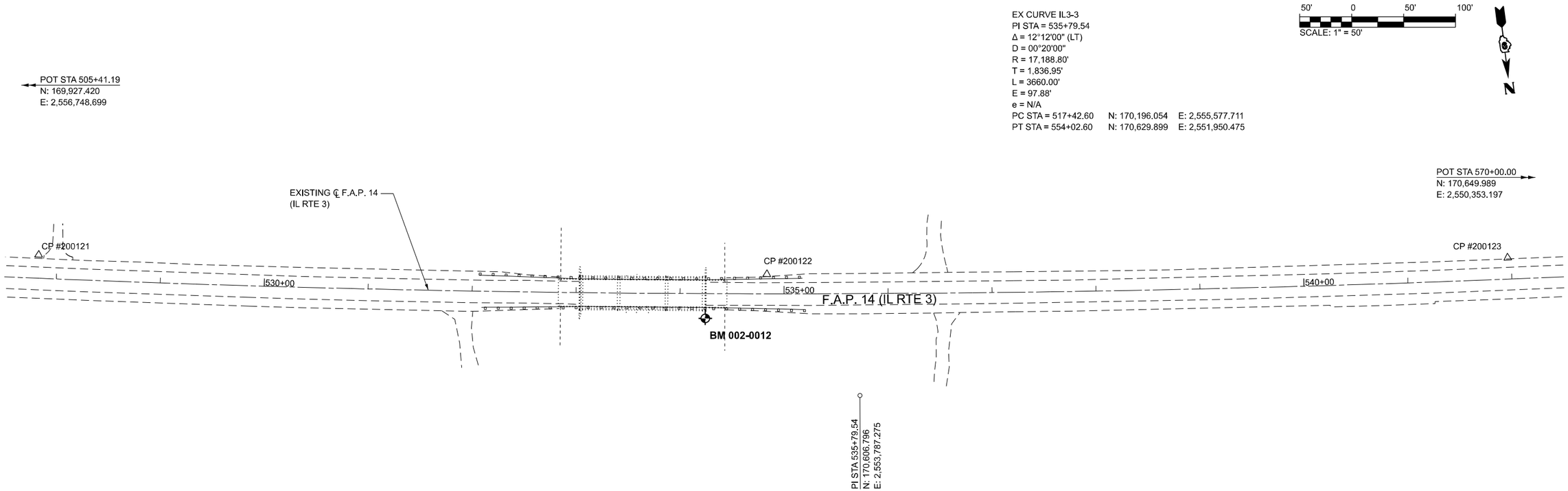
PLOT DATE = 3/11/2026	DATE - 2/25/2026	REVISED -

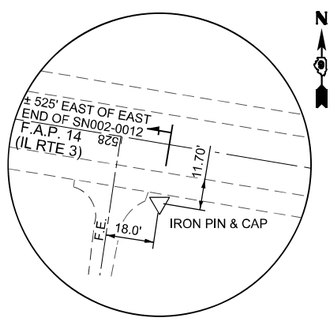
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.P 14 (ILLINOIS ROUTE 3)
SCHEDULE OF QUANTITIES

SCALE: | SHEET 5 OF 5 SHEETS | STA. | TO STA.

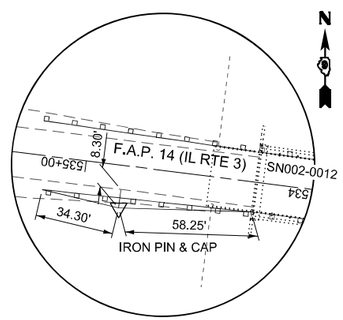
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
14	136-1(B-2)	ALEXANDER	82	18
		CONTRACT NO. 78791		
	ILLINOIS	FED. AID PROJECT		





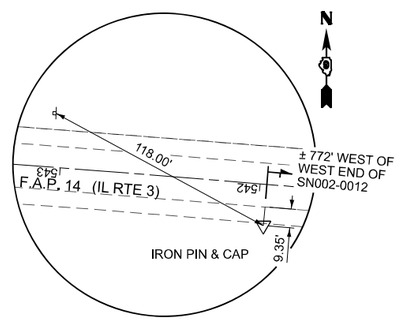
CP200121

STA. 527+82±, 22.4' LT.±
ELEV. = 333.297



CP200122

STA. 534+83±, 18.8' LT. ±
ELEV. = 334.162



CP200123

STA. 541+97±, 20.6' LT. ±
ELEV. = 333.643

BENCHMARK

BM 002-0012: CHISELED "□" CUT ON TOP OF THE WINGWALL ON NW CORNER OF SN 002-0012, ½ MILE WEST OF IL RTE 3/ 127 INTERSECTION
ELEV.: 335.63
STA. 534+24±, 23.8'±

MODEL: SH - ATB Detail Plan 11
FILE NAME: ...Sheet\D978791-sht-ATB-002.dgn

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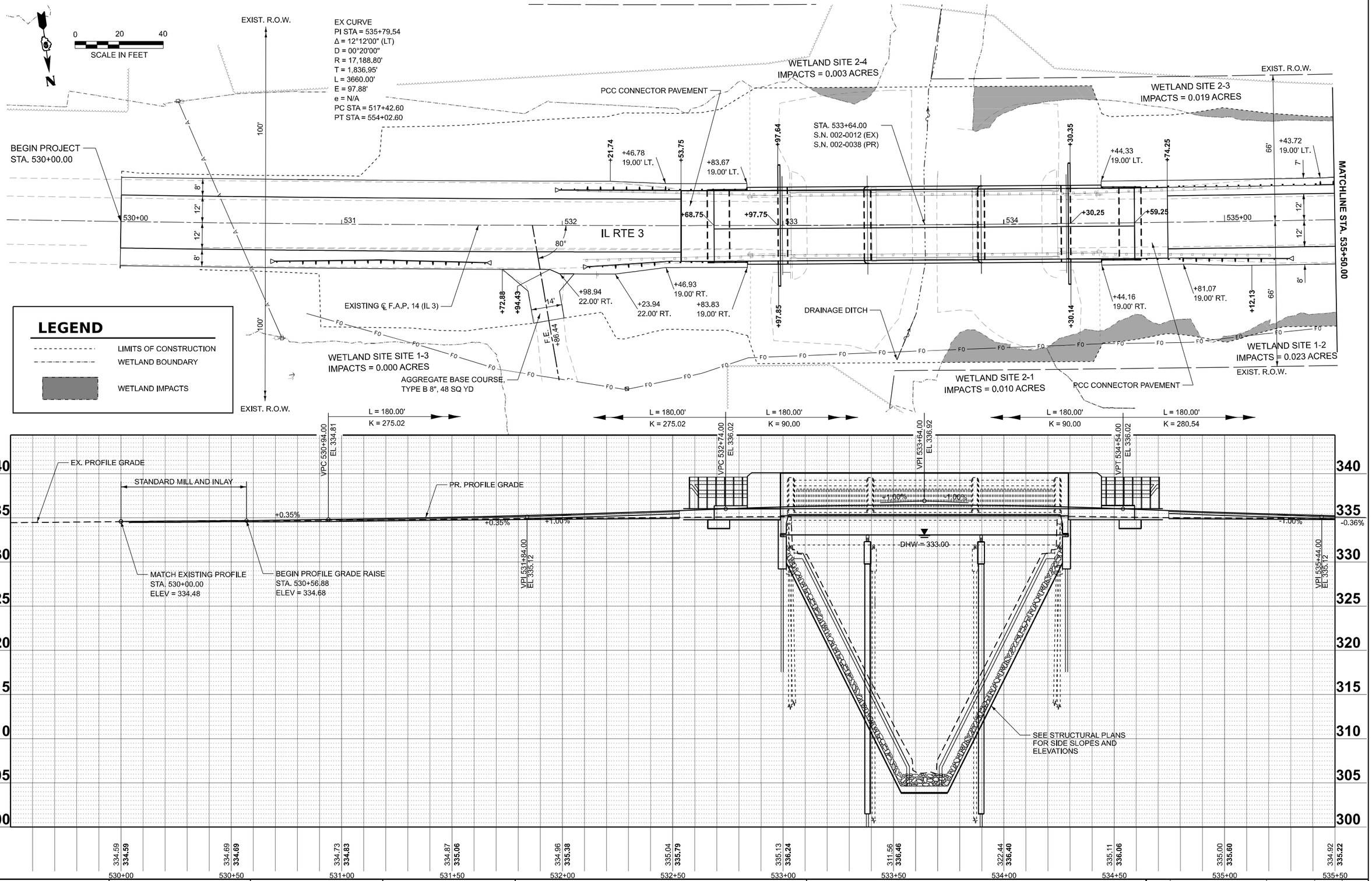
PLOT DATE = 2/24/2026	DATE - 2/25/2026	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.P 14 (ILLINOIS ROUTE 3)
ALIGNMENT, TIES AND BENCHMARKS

SCALE: 1"=50' | SHEET 1 OF 1 SHEETS | STA. 527+50.00 TO STA. 542+50.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
14	136-1(B-2)	ALEXANDER	82	19
		CONTRACT NO. 78791		
	ILLINOIS	FED. AID PROJECT		



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SHT - Pltprf - 01

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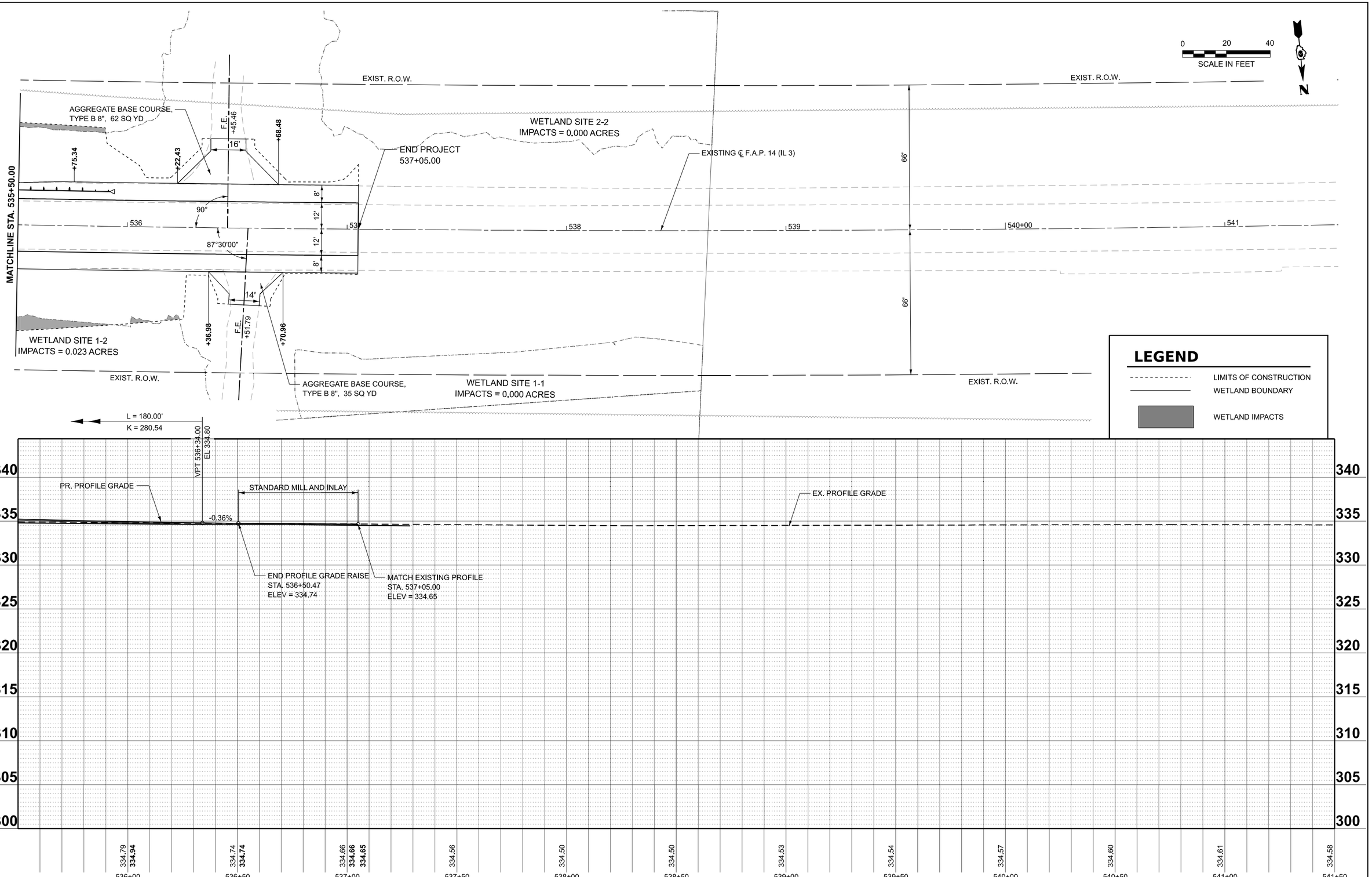
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.P 14 (ILLINOIS ROUTE 3)
PLAN AND PROFILE SHEETS

SCALE: 1"=20' | SHEET 1 OF 2 SHEETS | STA. 529+50.00 | TO STA. 535+50.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
14	136-1(B-2)	ALEXANDER	82	20
		CONTRACT NO. 78791		
		ILLINOIS FED. AID PROJECT		



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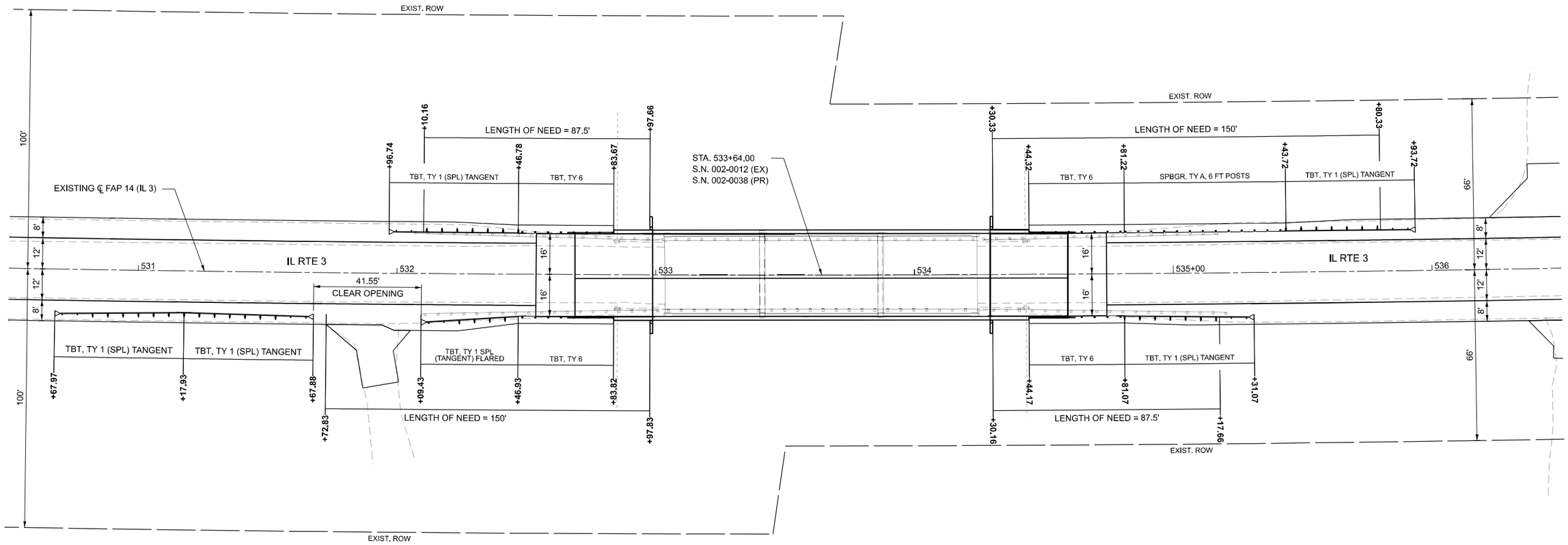
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.P 14 (ILLINOIS ROUTE 3)
PLAN AND PROFILE SHEETS

SCALE: 1"=20' | SHEET 2 OF 2 SHEETS | STA. 535+50.00 | TO STA. 541+50.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
14	136-1(B-2)	ALEXANDER	82	21
		CONTRACT NO. 78791		
	ILLINOIS	FED. AID PROJECT		



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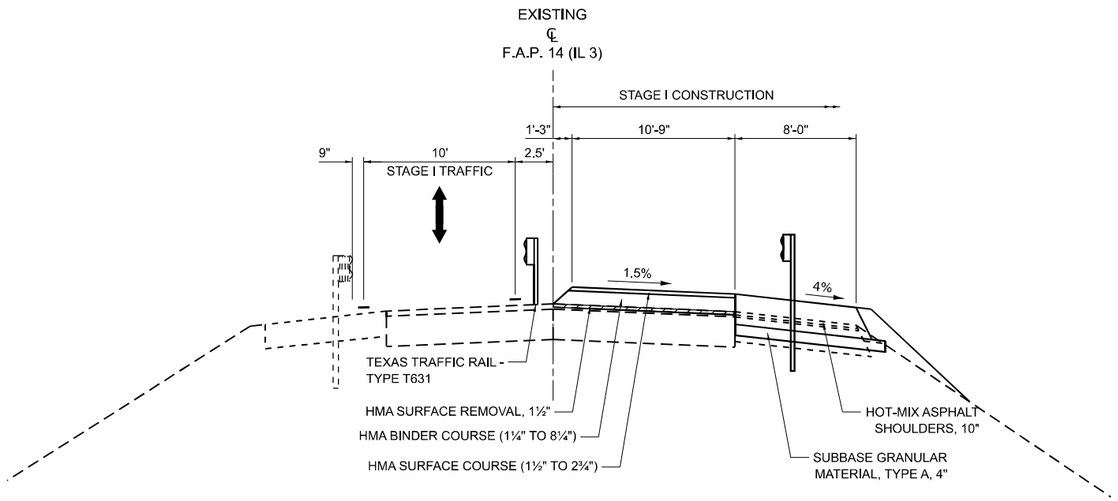
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.P 14 (ILLINOIS ROUTE 3)
PLAN - GUARDRAIL LAYOUT

SCALE: 1"=20' | SHEET 1 OF 1 SHEETS | STA. 530+50.00 TO STA. 536+50.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
14	136-1(B-2)	ALEXANDER	82	22
		CONTRACT NO. 78791		
		ILLINOIS	FED. AID PROJECT	



STAGE 1 CONSTRUCTION

(LOOKING WEST)

WIDE LOAD SIGN

MAX WIDTH

XX'–XX"

XX MILES AHEAD

W12–I103 (48 X 48)

SERIES D ALPHABET, NO BORDER, BLACK ON WHITE

NOTES FOR WIDE LOAD SIGN

THE CONTRACTOR SHALL FURNISH THE POST AND ERECT THE SIGN AT THE NECESSARY LOCATION AS DIRECTED BY THE ENGINEER. THE SIGN SHALL BE POST MOUNTED.

THE ABOVE NOTED WORK, INCLUDING SIGNS, POSTS, HARDWARE, AND LABOR SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE, EACH, FOR TRAFFIC CONTROL AND PROTECTION, STANDARD 701321, AND NO OTHER COMPENSATION WILL BE ALLOWED.

FOR WORK ON ALL STRUCTURES, THE WIDTH SHOWN ON THE W12-I103 SIGN SHALL BE 11'-0" OR DIRECTED BY THE ENGINEER. THE "X" MILES AHEAD WILL BE DETERMINED BY THE ENGINEER.

STAGE 1 CONSTRUCTION

PHASE 1

1. UTILIZE TRAFFIC CONTROL AND PROTECTION, STANDARD 701201 AND 701321.
2. PLACE TEMPORARY TRAFFIC CONTROL AS SHOWN ON THE DETAILS.
3. INSTALL TEMPORARY TRAFFIC SIGNALS PRIOR TO CLOSING THE WESTBOUND LANE OF THE ROADWAY. SEE "TRAFFIC CONTROL NOTES" FOR MORE DETAILS.

PHASE 2

1. UTILIZE TRAFFIC CONTROL AND PROTECTION, STANDARD 701321 TO DIRECT TRAFFIC TO THE EASTBOUND SIDE OF IL 3. CONSTRUCT TEMPORARY SHEET PILING AT THE EAST AND WEST SIDE OF THE EXISTING STRUCTURE. REMOVE THE WESTBOUND SIDE OF THE STRUCTURE.
2. CONSTRUCT THE WESTBOUND SIDE OF THE BRIDGE STRUCTURE, EMBANKMENT AT EAST AND WEST SIDES OF THE PROPOSED STRUCTURE, APPROACH PAVEMENT, AND FULL-DEPTH SHOULDERS.
3. INSTALL GUARDRAIL ON WESTBOUND SIDE OF IL 3 AND COMPLETE DRAINAGE AND GRADING IMPROVEMENTS.

TRAFFIC CONTROL NOTES

1. TWO PHASE SIGNAL OPERATION IS REQUIRED WHEN HWY STD 701321 IS IN EFFECT. THE ENGINEER OF TRAFFIC SHALL APPROVE ALL TIMING PARAMETERS.
2. THE CONTRACTOR WILL HAVE THE OPTION TO USE MICROWAVE DETECTION FOR USE WITH THE TEMPORARY TRAFFIC SIGNALS IN ACCORDANCE WITH HWY STD 701321.
3. REMOVAL OF THE RUMBLE STRIPS AFTER STAGED CONSTRUCTION SHALL BE COMPLETED TO THE SATISFACTION OF THE ENGINEER, ANY DAMAGE TO THE EXISTING PAVEMENT FROM THE RUMBLE STRIPS SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE. THERE WILL BE NO ADDITIONAL COMPENSATION.
4. ALL TEMPORARY PAVEMENT MARKINGS, DRUMS, ETC. SHALL BE PLACED PRIOR TO PLACING TEMPORARY CONCRETE BARRIERS.
5. THE TEXAS TRAFFIC RAIL - TYPE T631 SHALL BE CONNECTED TO THE TEMPORARY CONCRETE BARRIER AT STA. 531+25.00 AND STA. 535+37.50 WITH A TRAFFIC BARRIER TERMINAL TYPE 11. SEE STANDARD 631051 FOR DETAILS. NO SALVAGE VALUE.

NOTES FOR TRAFFIC CONTROL & PROTECTION STANDARD 701321

ALL ITEMS BELOW SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE, EACH FOR TRAFFIC CONTROL AND PROTECTION, STANDARD 701321, NO OTHER COMPENSATION WILL BE ALLOWED.

1. ALL SIGNAGE AS SHOWN ON THE HIGHWAY STANDARD AND ADDITIONAL SIGNAGE SHOWN ON THE STAGE 1 DETAIL. THE NOTED WORK SHALL INCLUDE SIGNS, POSTS, HARDWARE AND LABOR. THE CONTRACTOR SHALL ERECT THE SIGNS AT THE LOCATIONS ON THE DETAIL AND AT LOCATIONS DIRECTED BY THE ENGINEER.
2. THE PLACEMENT AND REMOVAL OF THE TEXAS TRAFFIC RAIL - TYPE T631 SHOWN ON THE STAGE 1 DETAIL AND IN THE STRUCTURE PLANS STAGE CONSTRUCTION DETAILS.
3. PER ARTICLE 703.07, WHEN TEMPORARY PAVEMENT MARKING IS SHOWN ON THE STANDARD AND DETAIL. THE COST OF TEMPORARY PAVEMENT MARKING AND ITS REMOVAL WILL BE INCLUDED IN THE COST OF THE STANDARD.
4. ALL TEMPORARY DRUMS OR BARRICADES SHOWN ON THE HIGHWAY STANDARD AND AS SHOWN ON THE DETAIL.

MODEL: STG-I Notes [Sheet]
FILE NAME: ...\D978791-sht-stage I typical-notes.dgn

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

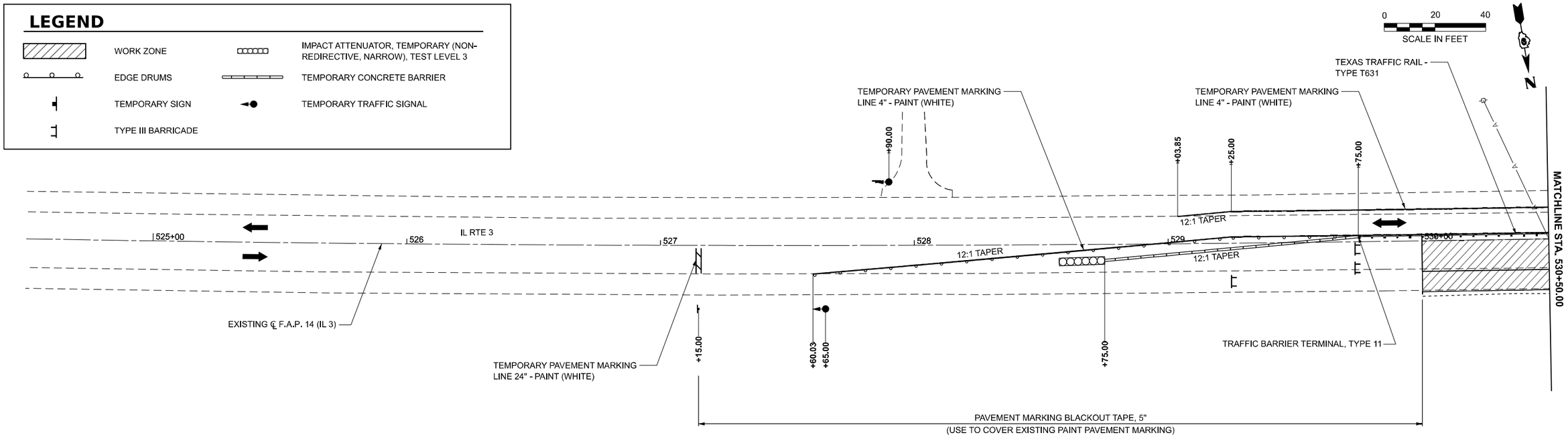
F.A.P 14 (ILLINOIS ROUTE 3)
MAINTENANCE OF TRAFFIC - STAGE I

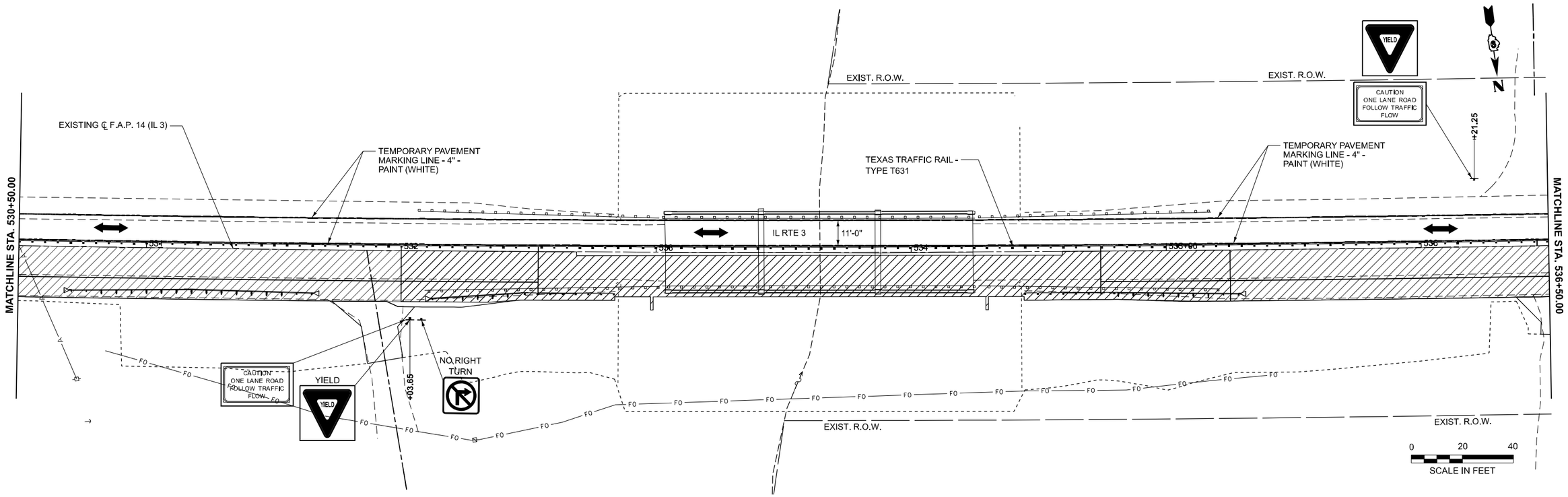
SCALE: | SHEET 1 OF 3 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
14	136-1(B-2)	ALEXANDER	82	23
		CONTRACT NO. 78791		
	ILLINOIS	FED. AID PROJECT		

LEGEND

	WORK ZONE		IMPACT ATTENUATOR, TEMPORARY (NON-REDIRECTIVE, NARROW), TEST LEVEL 3
	EDGE DRUMS		TEMPORARY CONCRETE BARRIER
	TEMPORARY SIGN		TEMPORARY TRAFFIC SIGNAL
	TYPE III BARRICADE		





MODEL: SH-STG-I Plan 13
FILE NAME: ...\D978791-sht-staging_I.dgn

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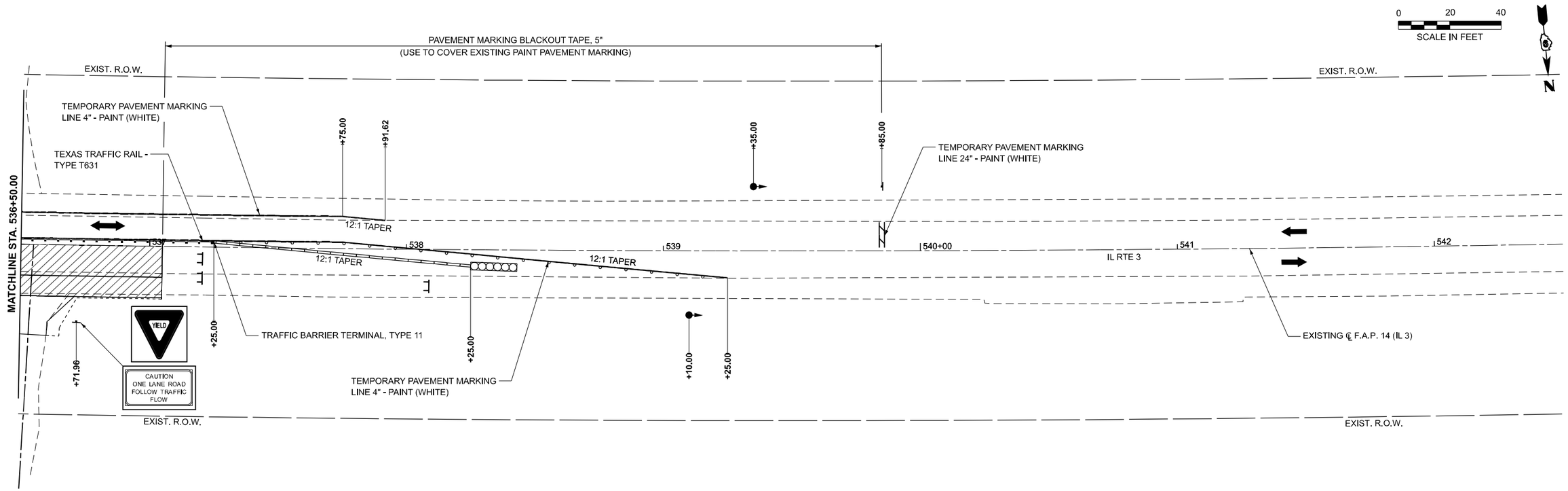
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.P 14 (ILLINOIS ROUTE 3)
MAINTENANCE OF TRAFFIC - STAGE I

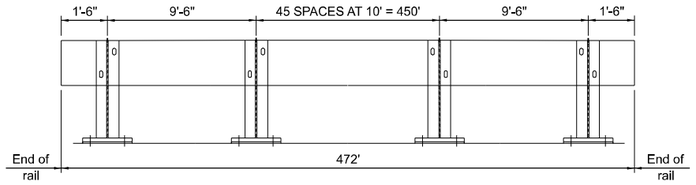
SCALE: 1"=20' | SHEET 2 OF 3 SHEETS | STA. 524+50.00 | TO STA. 536+50.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
14	136-1(B-2)	ALEXANDER	82	24
		CONTRACT NO. 78791		
	ILLINOIS	FED. AID PROJECT		



LEGEND

- WORK ZONE
- IMPACT ATTENUATOR, TEMPORARY (NON-REDIRECTIVE, NARROW), TEST LEVEL 3
- EDGE DRUMS
- TEMPORARY CONCRETE BARRIER
- TEMPORARY SIGN
- TEMPORARY TRAFFIC SIGNAL
- TYPE III BARRICADE



TEXAS TRAFFIC RAIL - TYPE T631 (TEMPORARY)

MODEL: SH-STG-I Plan 15
FILE NAME: ...\D978791-sht-staging_I.dgn

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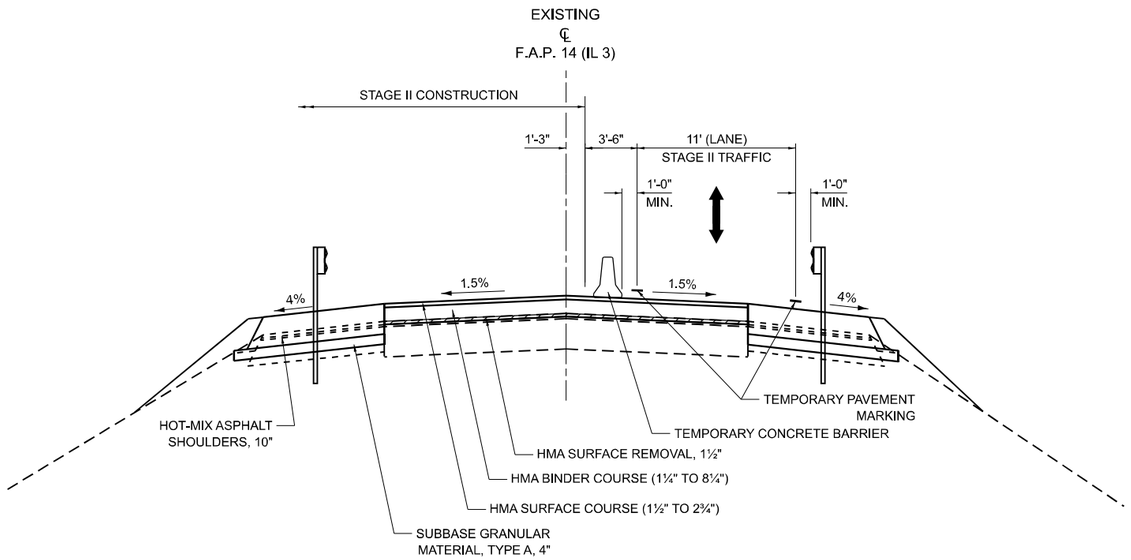
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.P 14 (ILLINOIS ROUTE 3)
MAINTENANCE OF TRAFFIC - STAGE I

SCALE: 1"=20' | SHEET 3 OF 3 SHEETS | STA. 536+50.00 | TO STA. 542+50.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
14	136-1(B-2)	ALEXANDER	82	25
		CONTRACT NO. 78791		
	ILLINOIS	FED. AID PROJECT		



STAGE 2 CONSTRUCTION

(LOOKING WEST)

STAGE 2 CONSTRUCTION

PHASE 1

1. UTILIZE TRAFFIC CONTROL AND PROTECTION, STANDARD 701201 AND 701321.
2. PLACE TEMPORARY TRAFFIC CONTROL AS SHOWN ON THE DETAILS.
3. INSTALL TEMPORARY TRAFFIC SIGNALS PRIOR TO CLOSING THE EASTBOUND LANE OF THE ROADWAY. SEE "TRAFFIC CONTROL NOTES" FOR MORE DETAILS.

PHASE 2

1. UTILIZE TRAFFIC CONTROL AND PROTECTION, STANDARD 701321 TO DIRECT TRAFFIC TO THE WESTBOUND SIDE OF IL 3. CONSTRUCT TEMPORARY SHEET PILING AT THE EAST AND WEST SIDE OF THE EXISTING STRUCTURE. REMOVE THE EASTBOUND SIDE OF THE STRUCTURE.
2. CONSTRUCT THE EASTBOUND SIDE OF THE BRIDGE STRUCTURE, EMBANKMENT AT EAST AND WEST SIDES OF THE PROPOSED STRUCTURE, APPROACH PAVEMENT, AND FULL-DEPTH SHOULDERS.
3. INSTALL GUARDRAIL ON EASTBOUND SIDE OF IL 3 AND COMPLETE DRAINAGE AND GRADING IMPROVEMENTS.

TRAFFIC CONTROL NOTES

1. TWO PHASE SIGNAL OPERATION IS REQUIRED WHEN HWY STD 701321 IS IN EFFECT. THE ENGINEER OF TRAFFIC SHALL APPROVE ALL TIMING PARAMETERS.
2. THE CONTRACTOR WILL HAVE THE OPTION TO USE MICROWAVE DETECTION FOR USE WITH THE TEMPORARY TRAFFIC SIGNALS IN ACCORDANCE WITH HWY STD 701321.
3. REMOVAL OF THE RUMBLE STRIPS AFTER STAGED CONSTRUCITON SHALL BE COMPLETED TO THE SATISFACTION OF THE ENGINEER, ANY DAMAGE TO THE EXISTING PAVEMENT FROM THE RUMBLE STRIPS SHALL BE REPIARED AT THE CONTRACTOR'S EXPENSE. THERE WILL BE NO ADDITIONAL COMPENSATION.
4. ALL TEMPORARY PAVEMENT MARKINGS, DRUMS, ETC. SHALL BE PLACED PRIOR TO PLACING TEMPORARY CONCRETE BARRIERS.

WIDE LOAD SIGN

MAX WIDTH

XX′–XX″

XX MILES AHEAD

W12–I103 (48 X 48)

SERIES D ALPHABET, NO BORDER, BLACK ON WHITE

NOTES FOR WIDE LOAD SIGN

THE CONTRACTOR SHALL FURNISH THE POST AND ERECT THE SIGN AT THE NECESSARY LOCATION AS DIRECTED BY THE ENGINEER. THE SIGN SHALL BE POST MOUNTED.

THE ABOVE NOTED WORK, INCLUDING SIGNS, POSTS, HARDWARE, AND LABOR SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE, EACH, FOR TRAFFIC CONTROL AND PROTECTION, STANDARD 701321, AND NO OTHER COMPENSATION WILL BE ALLOWED.

FOR WORK ON ALL STRUCTURES, THE WIDTH SHOWN ON THE W12-I103 SIGN SHALL BE 11'-0" OR DIRECTED BY THE ENGINEER. THE "X" MILES AHEAD WILL BE DETERMINED BY THE ENGINEER.

NOTES FOR TRAFFIC CONTROL & PROTECTION STANDARD 701321

ALL ITEMS BELOW SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE, EACH FOR TRAFFIC CONTROL AND PROTECTION, STANDARD 701321, NO OTHER COMPENSATION WILL BE ALLOWED.

1. ALL SIGNAGE AS SHOWN ON THE HIGHWAY STANDARD AND ADDITIONAL SIGNAGE SHOWN ON THE STAGE 1 DETAIL. THE NOTED WORK SHALL INCLUDE SIGNS, POSTS, HARDWARE AND LABOR. THE CONTRACTOR SHALL ERECT THE SIGNS AT THE LOCATIONS ON THE DETAIL AND AT LOCATIONS DIRECTED BY THE ENGINEER.
2. PER ARTICLE 703.07, WHEN TEMPORARY PAVEMENT MARKING IS SHOWN ON THE STANDARD AND DETAIL. THE COST OF TEMPORARY PAVEMENT MARKING AND ITS REMOVAL WILL BE INCLUDED IN THE COST OF THE STANDARD.
3. ALL TEMPORARY DRUMS OR BARRICADES SHOWN ON THE HIGHWAY STANDARD AND AS SHOWN ON THE DETAIL.

MODEL: STG-II Notes [Sheet]
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

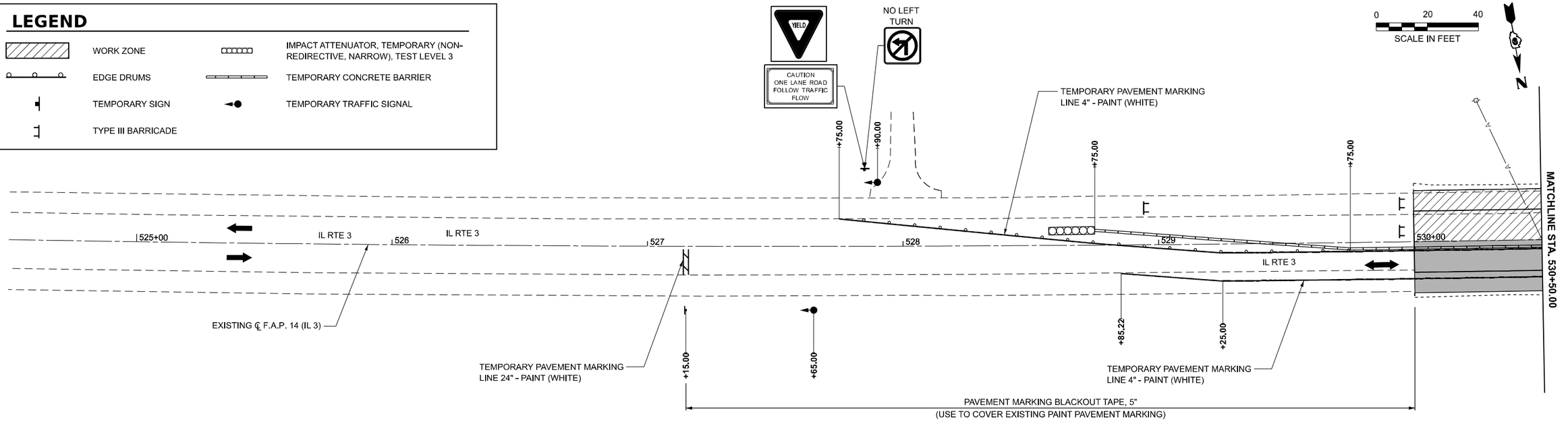
F.A.P 14 (ILLINOIS ROUTE 3)
MAINTENANCE OF TRAFFIC - STAGE II

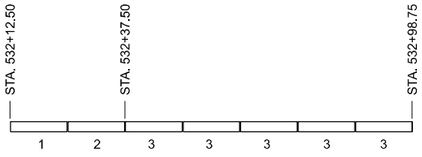
SCALE: | SHEET 1 OF 3 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
14	136-1(B-2)	ALEXANDER	82	26
		CONTRACT NO. 78791		
	ILLINOIS	FED. AID PROJECT		

LEGEND

	WORK ZONE		IMPACT ATTENUATOR, TEMPORARY (NON-REDIRECTIVE, NARROW), TEST LEVEL 3
	EDGE DRUMS		TEMPORARY CONCRETE BARRIER
	TEMPORARY SIGN		TEMPORARY TRAFFIC SIGNAL
	TYPE III BARRICADE		





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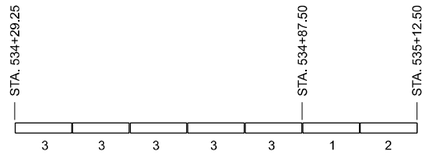

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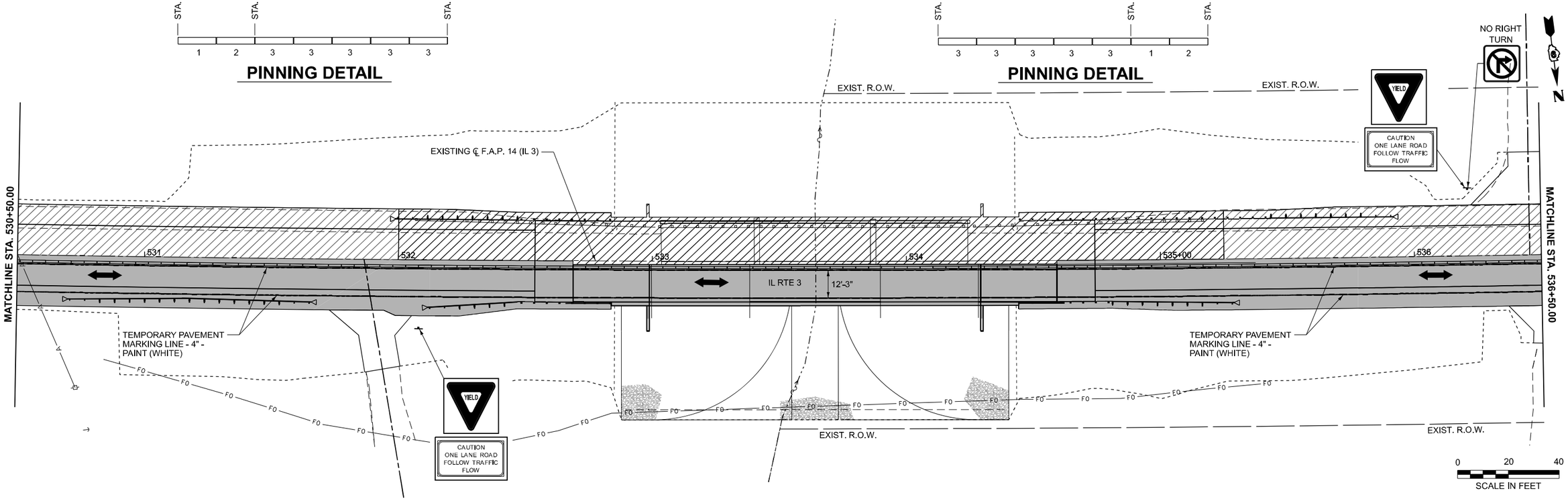

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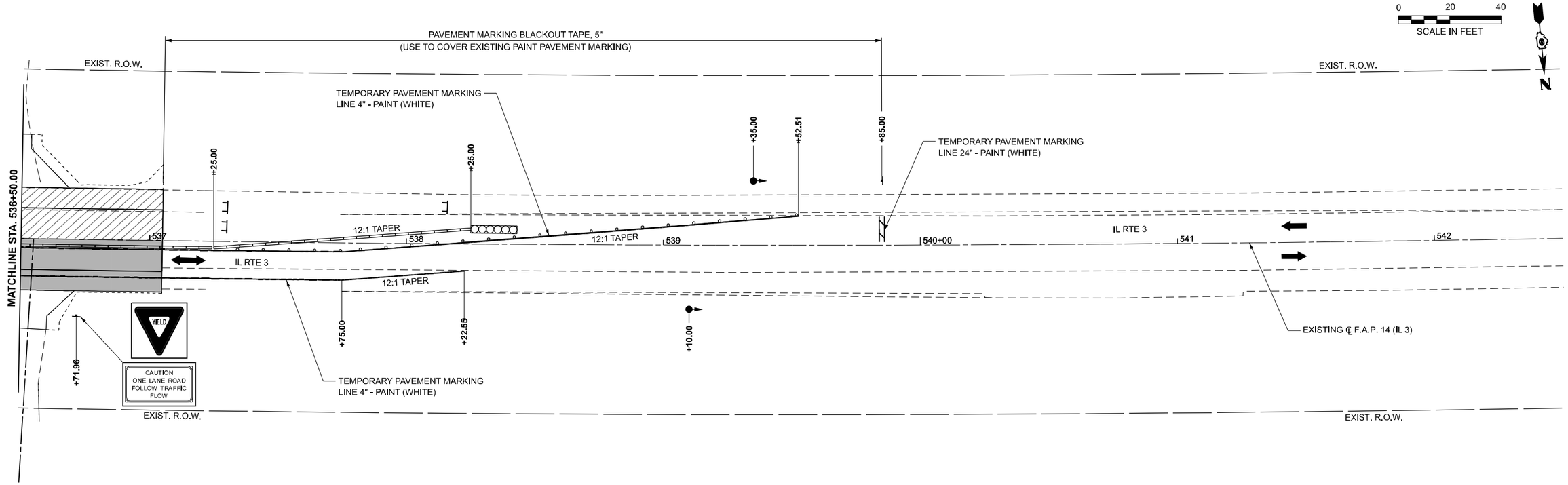
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.P 14 (ILLINOIS ROUTE 3)
MAINTENANCE OF TRAFFIC - STAGE II

SCALE: 1"=20' | SHEET 2 OF 3 SHEETS | STA. 524+50.00 | TO STA. 536+50.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
14	136-1(B-2)	ALEXANDER	82	27
		CONTRACT NO. 78791		
	ILLINOIS	FED. AID PROJECT		



LEGEND

	WORK ZONE		IMPACT ATTENUATOR, TEMPORARY (NON-REDIRECTIVE, NARROW), TEST LEVEL 3
	EDGE DRUMS		TEMPORARY CONCRETE BARRIER
	TEMPORARY SIGN		TEMPORARY TRAFFIC SIGNAL
	TYPE III BARRICADE		

MODEL: SH-STG-II Plan 15
FILE NAME: ...\D978791-sht-staging_II.dgn

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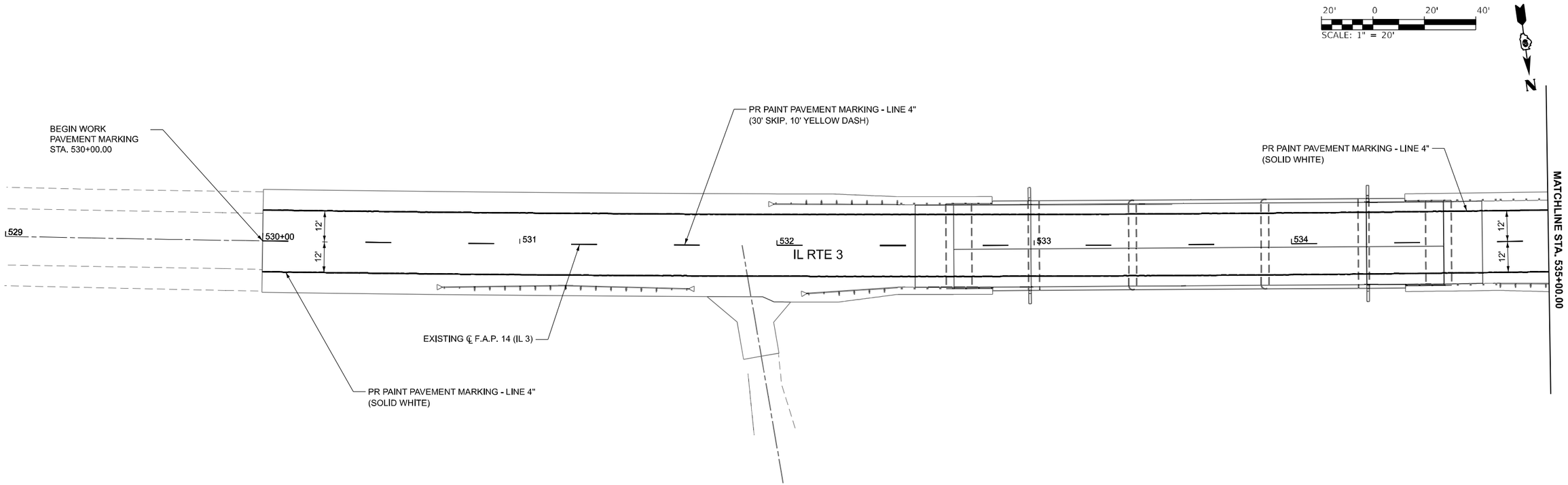
PLOT DATE = 3/11/2026	DATE - 2/25/2026	REVISED -	

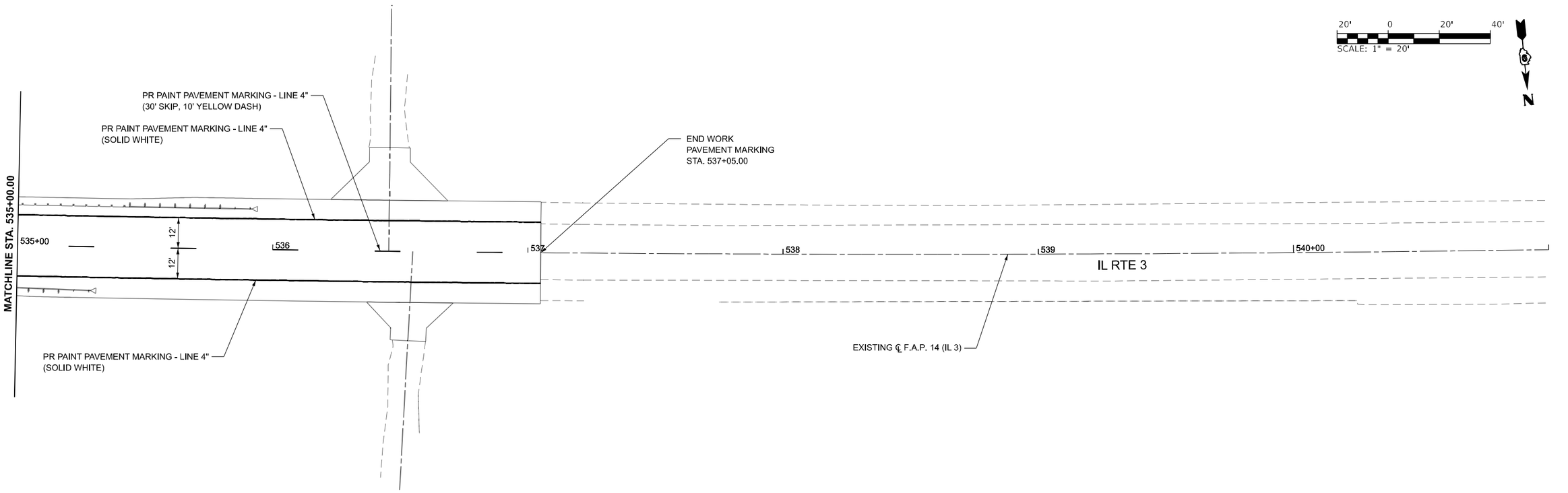
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.P 14 (ILLINOIS ROUTE 3)
MAINTENANCE OF TRAFFIC - STAGE II

SCALE: 1"=20' | SHEET 3 OF 3 SHEETS | STA. 536+50.00 | TO STA. 542+50.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
14	136-1(B-2)	ALEXANDER	82	28
		CONTRACT NO. 78791		
	ILLINOIS	FED. AID PROJECT		





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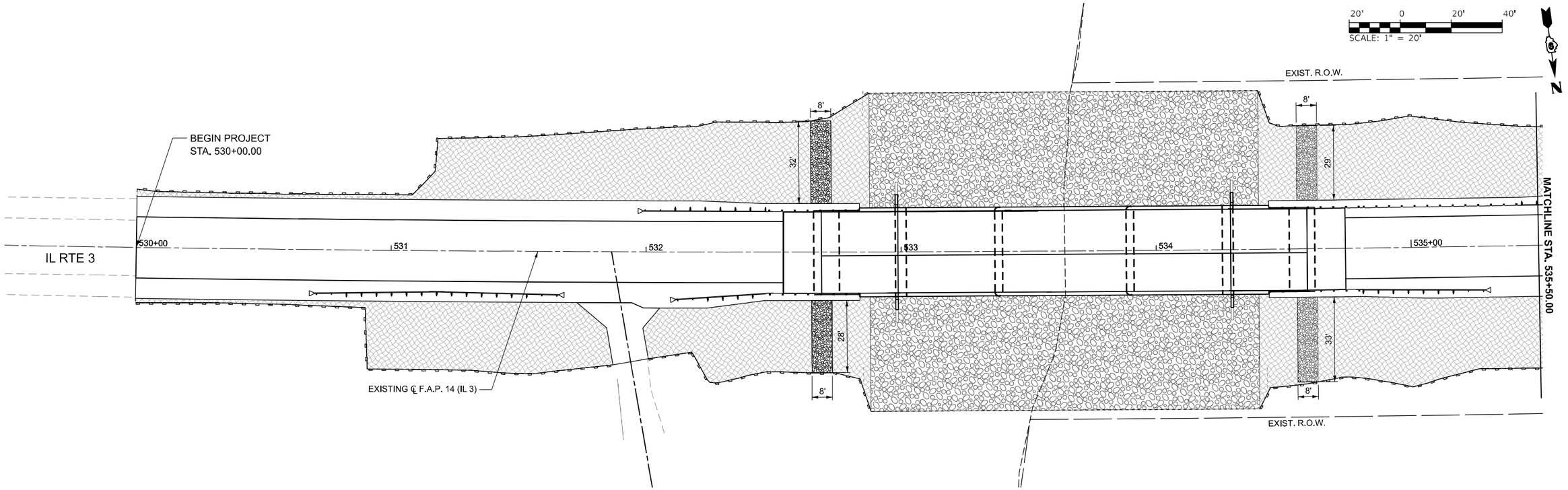
	CHECKED - MJO	REVISED -	
PLOT DATE = 2/26/2026	DATE - 2/25/2026	REVISED -	

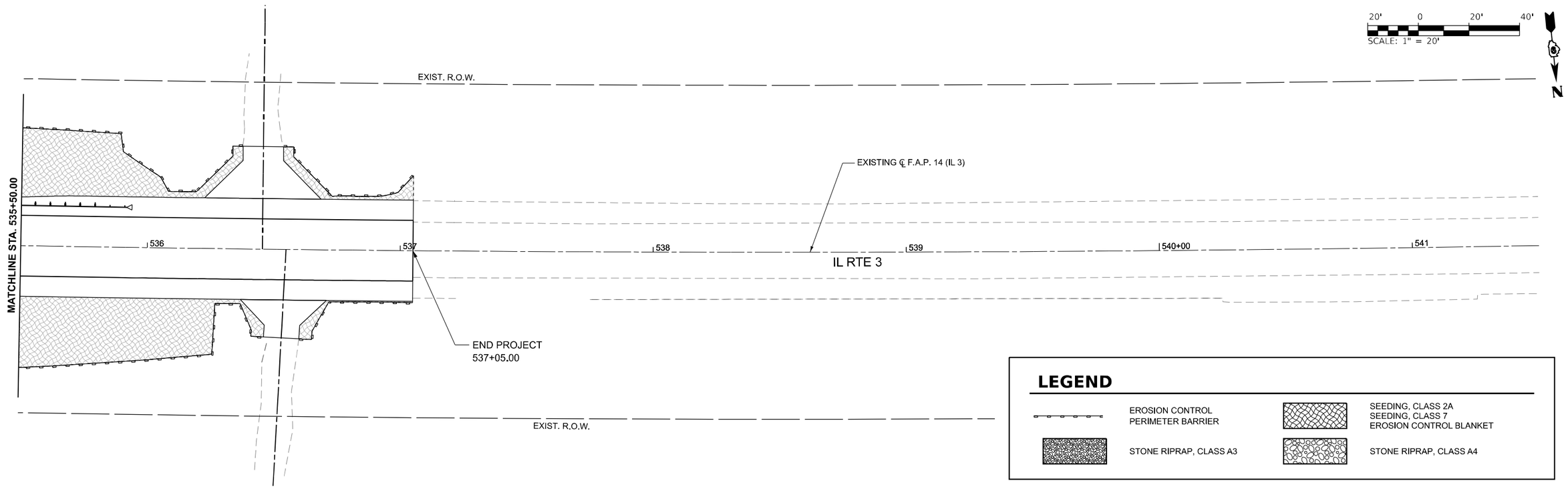
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.P 14 (ILLINOIS ROUTE 3)
PAVEMENT MARKING PLAN

SCALE: 1"=20' | SHEET 1 OF 1 SHEETS | STA. 529+00.00 TO STA. 541+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
14	136-1(B-2)	ALEXANDER	82	29
		CONTRACT NO. 78791		
	ILLINOIS	FED. AID PROJECT		





LEGEND

- EROSION CONTROL PERIMETER BARRIER
- SEEDING, CLASS 2A
  SEEDING, CLASS 7
  EROSION CONTROL BLANKET
- STONE RIPRAP, CLASS A3
- STONE RIPRAP, CLASS A4

MODEL: SH - EROS Plan 11
FILE NAME: ...\Sheet\D978791-sht-eros.dgn

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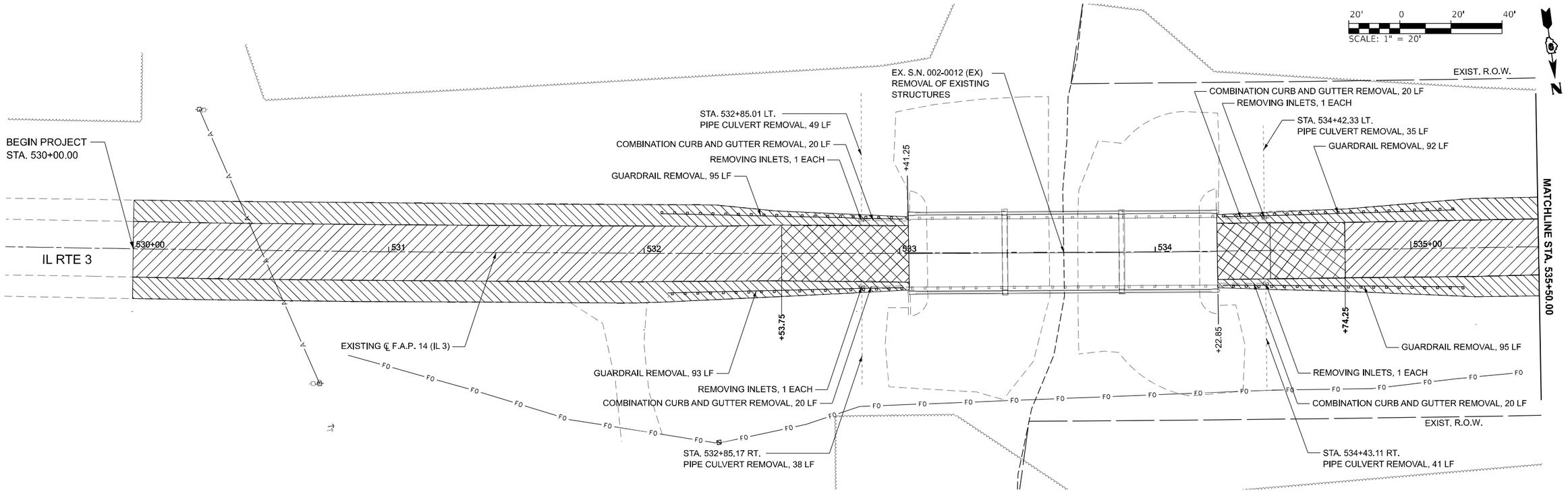
	CHECKED - MJO	REVISED -
PLOT DATE = 2/25/2026	DATE - 2/25/2026	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.P 14 (ILLINOIS ROUTE 3)
EROSION CONTROL PLAN

SCALE: 1"=20' | SHEET 1 OF 1 SHEETS | STA. 529+50.00 | TO STA. 541+50.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
14	136-1(B-2)	ALEXANDER	82	30
		CONTRACT NO. 78791		
	ILLINOIS	FED. AID PROJECT		



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CMT
License No. 184-000613

USER NAME = Matt Overbey	DESIGNED - MLC	REVISED -	
	DRAWN - RAH	REVISED -	
	CHECKED - MJO	REVISED -	
PLOT DATE = 2/25/2026	DATE - 2/25/2026	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.P 14 (ILLINOIS ROUTE 3)
REMOVAL PLANS

SCALE: 1"=20' | SHEET 1 OF 1 SHEETS | STA. 529+50.00 | TO STA. 541+50.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
14	136-1(B-2)	ALEXANDER	82	31
		CONTRACT NO. 78791		
	ILLINOIS	FED. AID PROJECT		

50' 0 50' 100'
SCALE: 1" = 50'

N

STA. 533+72.72
O/S. 100.00' LT.

+15.00 45.00' LT.
+70.00 45.00' LT.
+20.00 45.00' LT.
+00.00 45.00' LT.
+45.00 75.00' LT.
+85.00 70.00' LT.
+30.00 55.00' LT.
+65.00 50.00' LT.
+65.00 50.00' LT.

EXISTING R.O.W.
+15.00
45.00' LT.
100.00'
EXISTING ℄ FAP 14 (IL RTE 3)
EXISTING R.O.W.

STA. 533+67.43
O/S. 66.00' LT.

66.00'
FAP 14 (IL 3)
530+00
535+00
540+00
FAP 14 (IL 3)
66.00'
100.00'
65.00'

STA. 533+50.17
O/S. 66.00' RT.

EXISTING R.O.W.
EXISTING R.O.W.
+15.00
+90.00
+35.00
+15.00
+70.00
+35.00
+65.00
+85.00

STA. 533+45.37
O/S. 100.00' RT.

LEGEND

HIGH VISIBILITY TEMPORARY FENCING (SEE PROJECT COMMITMENTS)

MODEL: SH - ROW Plan 01
FILE NAME: ...\Sheet\D978791-sht-ROW.dgn

CMT
License No. 184-000613

USER NAME = Matt Overbey	DESIGNED - MLC	REVISED -	
	DRAWN - RAH	REVISED -	
	CHECKED - MJO	REVISED -	
PLOT DATE = 2/26/2026	DATE - 2/25/2026	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.P 14 (ILLINOIS ROUTE 3)
EXISTING ROW PLAN

SCALE: 1"=50' | SHEET 1 OF 1 SHEETS | STA. 526+00.00 | TO STA. 541+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
14	136-1(B-2)	ALEXANDER	82	32
		CONTRACT NO. 78791		
	ILLINOIS FED. AID PROJECT			

BENCHMARK:

Chiseled "❑" on top of wingwall of NW corner of Structure 002-0012, ½ mile west of the IL Rt. 127 interchange, Elevation = 335.631.

EXISTING STRUCTURE:

SN 002-0012 was originally built in 1948 under Section 136-1B on F.A. Route 100. The structure is a three-span bridge with concrete stub abutments on precast concrete piles with an overall length of 122'-0½" from back to back of abutments. The superstructure is made of a reinforced concrete deck on steel beams. The width of the structure is 26'-0" between the railings and 32'-4" out-to-out of the deck. The structure is to be removed and replaced utilizing staged construction.

SALVAGE:

None

SEISMIC DATA

2023 AASHTO Seismic Hazard
Seismic Design Category (SDC) = D
Design Spectral Acceleration at 1.0 sec. (SD1) = 0.753g
Soil Site Class = DE
Performance Level = Operational
Latitude = 37.13° N Longitude = 89.28° W

CURVE DATA

P.I. Sta. = 535+79.54
Δ = 12°12'00" (LT)
D = 00°20'00"
R = 17,188.80'
T = 1,836.95'
L = 3660.00'
E = 97.88'
P.C. Sta. = 517+42.60
P.T. Sta. = 554+02.60

DESIGN SPECIFICATIONS

2024 AASHTO LRFD Bridge Design Specifications, 10th Edition
2023 AASHTO Guide Specifications for LRFD Seismic Bridge Design

DESIGN STRESSES

FIELD UNITS

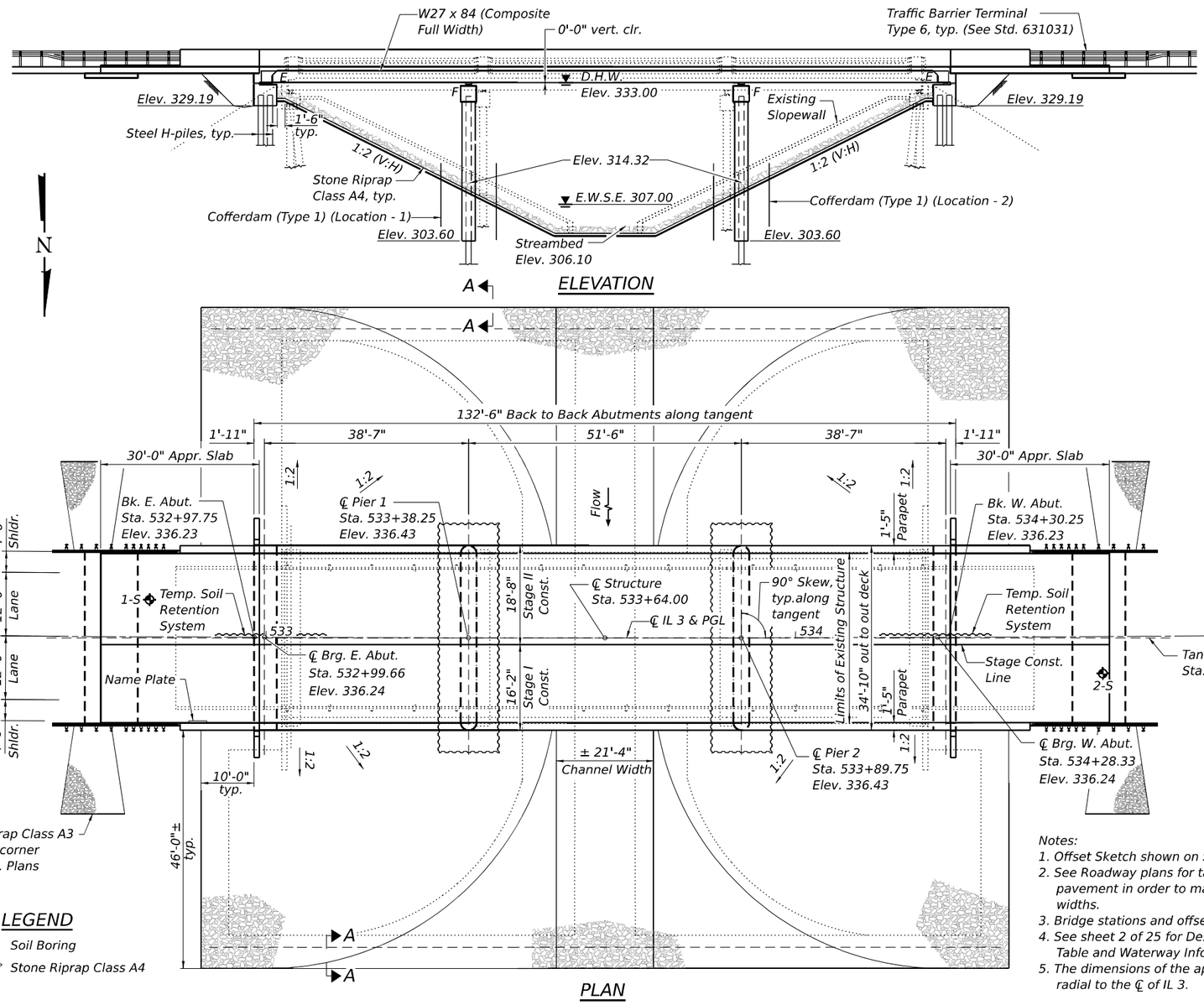
f'c = 4,000 psi (superstructure)
f'c = 3,500 psi (substructure)
fy = 60,000 psi (reinforcement)
*fy = 50,000 psi (M270 Grade 50), structural steel **
*fy = 36,000 psi (M270 Grade 36), structural steel **
** Galvanized*

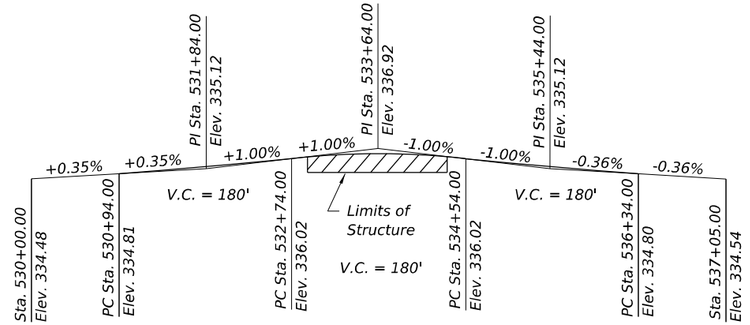
LOADING HL-93

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

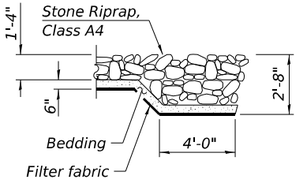
APPROVED
For Structural Adequacy Only
Engineer of Bridges & Structures

LICENSED STRUCTURAL ENGINEER
DENISE HERRERA
081-00884I
STATE OF ILLINOIS
4/14/2026
Exp. Date 11/30/2026

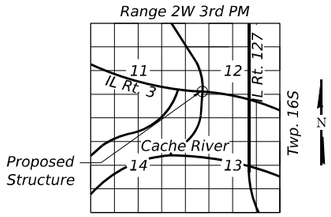




PROFILE GRADE
Along ℄ IL 3



SECTION A-A



LOCATION SKETCH

Notes:
1. *Offset Sketch shown on Sheet 2 of 25.*
2. *See Roadway plans for taper in approach pavement in order to maintain lane and shoulder widths.*
3. *Bridge stations and offsets are taken along ℄ IL 3.*
4. *See sheet 2 of 25 for Design Scour Elevation Table and Waterway Information.*
5. *The dimensions of the approach roadway are radial to the ℄ of IL 3.*

LEGEND

Soil Boring
Stone Riprap Class A4

GENERAL PLAN AND ELEVATION
IL 3 OVER DRAINAGE DITCH
F.A.P. RTE. 14 - SEC. 136-1B
ALEXANDER COUNTY
STATION 533+64.00
STRUCTURE NO. 002-0038

FILE NAME: ...\IDOT\2220068\0-00\WO_14\78791\CADD Data\Bridge\CADD Sheets\00200038-78791-001-GPE.dgn

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License No. 184-000613

USER NAME = iformell	DESIGNED - IPF	REVISED -	
	DRAWN - IPF	REVISED -	
	CHECKED - DAC/DH	REVISED -	
PLOT DATE = 10/21/2025	DATE - 2/25/2026	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL PLAN AND ELEVATION
STRUCTURE NO. 002-0038

SCALE: | SHEET 1 OF 25 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
14	136-1B	ALEXANDER	82	33
		CONTRACT NO. 78791		
	ILLINOIS	FED. AID PROJECT		

GENERAL NOTES

1. All new structural steel shall be galvanized. See special provision for "Hot Dip Galvanizing for Structural Steel".

2. Calculating weight of Structural Steel:
   M270 Grade 50 = 71,160 lbs.
   M270 Grade 36 = 14,810 lbs.

3. No field welding is permitted except as specified in the contract documents.

4. Fasteners shall be ASTM F 3125 Grade A325 Type 1, hot-dip galvenized. See Special Provision for "Hot Dip Galvenizing for Structural Steel." Bolts $\frac{7}{8}$" diameter, holes $\frac{5}{16}$" diameter, unless otherwise noted.

5. Reinforcement bars designated (E) shall be epoxy coated.

6. The finishing machine rails shall be placed on top of the top flange of the exterior beams within the deck pour. Beam blocks shall be placed between beams at all tie locations in each bay for the full width of the deck pour.

7. Slipforming of the parapets is not allowed.

8. Bearing seat surfaces shall be constructed or adjusted to the designated elevations within a tolerance of $\frac{1}{8}$"(0.01 ft.). Adjustment shall be made either by grinding the surface or by shimming the bearings.

9. Excavation behind existing abutment walls shall be performed to balance front and back soil pressure before removing the existing superstructure. For staged structures, the Contractor shall sawcut the upper portion of the existing abutment at the stage removal line before Stage I removal to ensure the remaining portion will not be prematurely damaged.

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

11. The existing structural steel coating contains lead. The Contractor shall take appropriate precautions to address the presence of lead on this project.

12. The existing bearings contain lead plates. The Contractor shall take precautions to deal with the presence of lead on this project.

13. It shall be the Contractor's responsibility to verify the location of utilities prior to starting construction. Contact J.U.L.I.E., 800-892-0123.

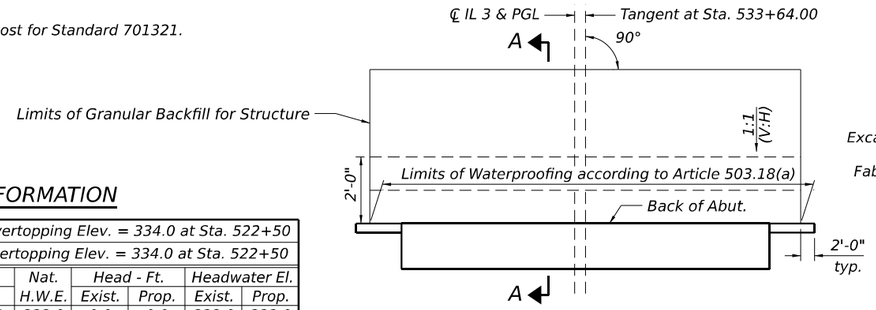
14. Slopewall removal is included in payment for Structural Removal.

15. Texas Traffic Rail - Type T631 included in cost for Standard 701321.

INDEX OF SHEETS

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Stone Riprap, Class A4	Sq. Yd.		2,210	2,210
Filter Fabric	Sq. Yd.		2,210	2,210
Removal of Existing Structures	Each		1	1
Structure Excavation	Cu. Yd.		230	230
Cofferdam Excavation	Cu. Yd.		329	329
Cofferdam (Type 1) (Location – 1)	Each		1	1
Cofferdam (Type 1) (Location – 2)	Each		1	1
Concrete Structures	Cu. Yd.	20.4	200.1	220.5
Concrete Superstructure	Cu. Yd.	179.4		179.4
Bridge Deck Grooving	Sq. Yd.	635		635
Protective Coat	Sq. Yd.	824		824
Concrete Superstructure (Approach Slab)	Cu. Yd.	94.6		94.6
Furnishing and Erecting Structural Steel	L. Sum	1		1
Stud Shear Connectors	Each	4,032		4,032
Reinforcement Bars, Epoxy Coated	Pound	82,300	13,640	95,940
Bar Splicers	Each	695	164	859
Furnishing Steel Piles HP 14X89	Foot		2,205	2,205
Driving Piles	Foot		2,205	2,205
Test Pile Steel HP 14X89	Each		4	4
Name Plates	Each	1		1
Elastomeric Bearing Assembly, Type I	Each		12	12
Anchor Bolts, $\frac{3}{4}$"	Each		48	48
Temporary Soil Retention System	Sq. Ft.		218	218
Granular Backfill for Structures	Cu. Yd.		83	83
Concrete Headwalls for Pipe Drains	Each		4	4
Pipe Underdrains for Structures 4"	Foot		110	110
Bar Terminators	Each	270		270



BACKFILL TREATMENT FOR SEMI-INTEGRAL ABUTMENT PLAN

WATERWAY INFORMATION

Drainage Area = 12 Sq. Mi.			Exist. Overtopping Elev. = 334.0 at Sta. 522+50						
			Prop. Overtopping Elev. = 334.0 at Sta. 522+50						
Flood	Freq. Yr.	Q C.F.S.	Opening Ft²		Nat. H.W.E.	Head - Ft.		Headwater El.	
			Exist.	Prop.		Exist.	Prop.	Exist.	Prop.
Ten-Year	10	2,120	1,482	1,664	333.0	0.0	0.0	333.0	333.0
Design	50	3,090	1,482	1,664	333.0	0.0	0.0	333.0	333.0
Base	100	3,500	1,482	1,664	333.0	0.1	0.1	333.1	333.1
Scour Check	200	3,953	1,482	1,664	333.0	0.1	0.1	333.1	333.1
Max. Calc.	500	4,540	1,482	1,664	333.0	0.1	0.1	333.1	333.1

Existing 10 Year Average Velocity (Q/A) = 1.6 ft/s
Proposed 10 Year Average Velocity (Q/A) = 1.3 ft/s

DESIGN SCOUR ELEVATION TABLE

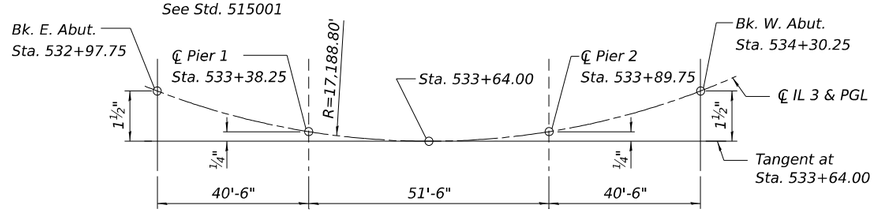
Event / Limit State	Design Scour Elevations (ft.)				Item 113
	E. Abut.	Pier 1	Pier 2	W. Abut.	
Q100	--	298.9	298.9	--	5
Q200	--	298.1	298.1	--	
Design	329.19	298.9	298.9	329.19	
Check	329.19	298.1	298.1	329.19	

BYPASS FLOWRATE FROM BRIDGE LIMITS (END OF APPROACH SLAB) TO ROADWAY

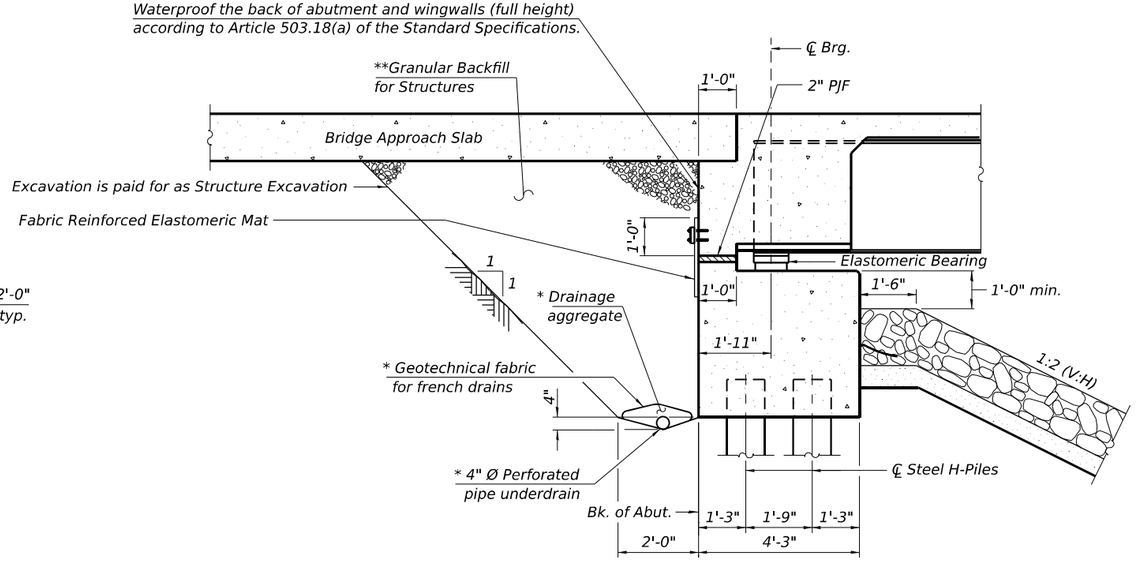
	NW Curbline	SW Curbline	NE Curbline	SE Curbline
Q (C.F.S.)	0.46	0.46	0.46	0.46

STA. 533+64.00
BUILT 202_ BY
STATE OF ILLINOIS
F.A.P. RTE. 14 - SEC. 136-1B
LOADING HL-93
STR. NO. 002-0038

NAME PLATE
See Std. 515001



OFFSET SKETCH



SECTION A-A
(Horiz. dim. at Rt. ∠'s)

* Included in the cost of Pipe Underdrains for Structures.
** Granular Backfill for Structures according to Section 586 of the Standard Specificiations except the course aggregate shall be CA 7, CA 11, or CA14, and shall be compacted according to Article 205.06 of the Standard Specifications.

Note:
All drainage system components shall extend to 2'-0" from the end of each wingwall except an outlet pipe shall extend until intersecting with the side slopes. The pipes shall drain into the concrete headwalls. (See Article 601.05 of the Standard Specifications and Highway Standard 601101).

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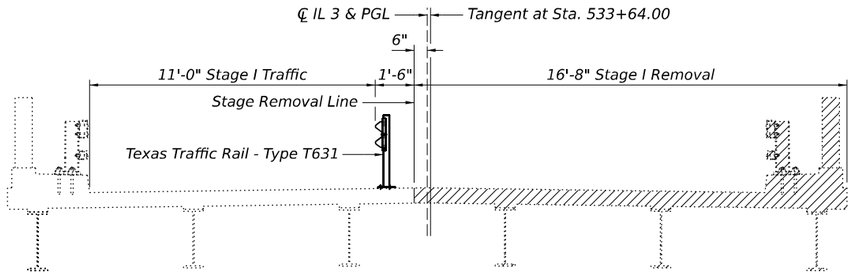
USER NAME = iformell	DESIGNED - IPF	REVISED -
	DRAWN - IPF	REVISED -
	CHECKED - DAC/DH	REVISED -
PLOT DATE = 12/4/2025	DATE - 2/25/2026	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

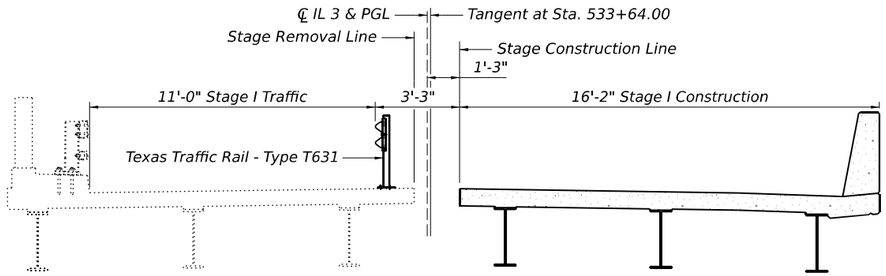
GENERAL DATA
STRUCTURE NO. 002-0038

SCALE: | SHEET 2 OF 25 SHEETS | STA. | TO STA.

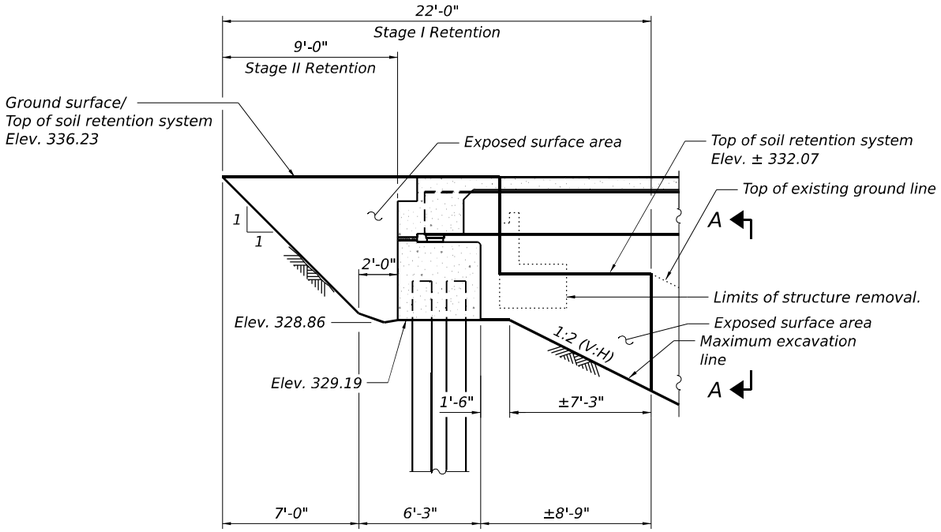
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
14	136-1B	ALEXANDER	82	34
		CONTRACT NO. 78791		
		ILLINOIS	FED. AID PROJECT	



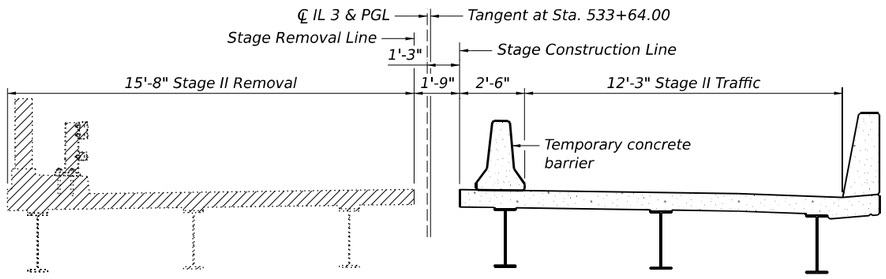
STAGE I REMOVAL
(Looking West)



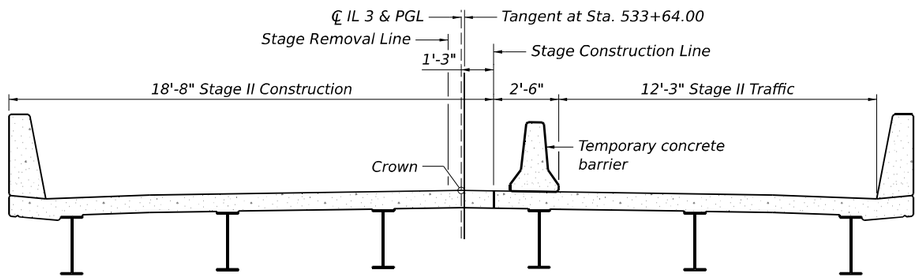
STAGE I CONSTRUCTION
(Looking West)



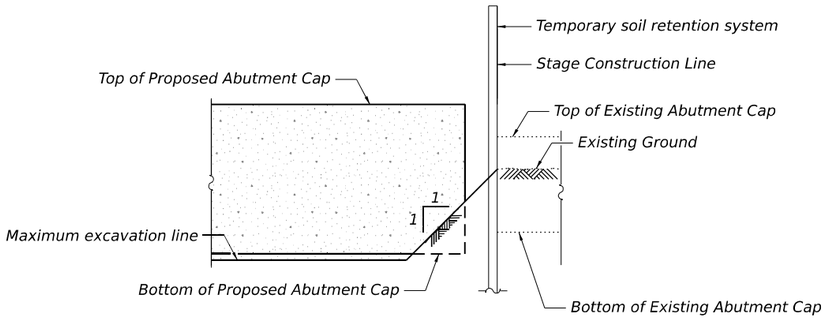
TEMPORARY SOIL RETENTION SYSTEM
(Dimensions along ℄ IL 3)



STAGE II REMOVAL
(Looking West)



STAGE II CONSTRUCTION
(Looking West)



VIEW A-A
(See Note 1)

Notes:
1. *Contractor shall cut the existing embankment at a 1:1 slope down to the proposed embankment elevation along the stage construction line to avoid slope failure.*
2. *For the quantity of Temporary Concrete Barrier, see roadway staging plan sheets.*
3. *Hatched area indicates Removal of Existing Structures.*
4. *For details of Temporary Concrete Barrier, see sheet 4 of 25.*
5. *See sheets 5 and 6 of 25 for Texas Traffic Rail - Type T631 railing details.*
6. *A cantilevered sheet piling design does not appear feasible and additional members or other retention systems may be necessary. The Contractor shall submit a temporary soil retention system design including plan details and calculations for review and acceptance by the Engineer.*

FILE NAME: ...\IDOT\2200610-00\WO_14\78791\CADD Data\Bridge\CADD_Sheets\0020038-78791-003-Stage Construction Details.dgn

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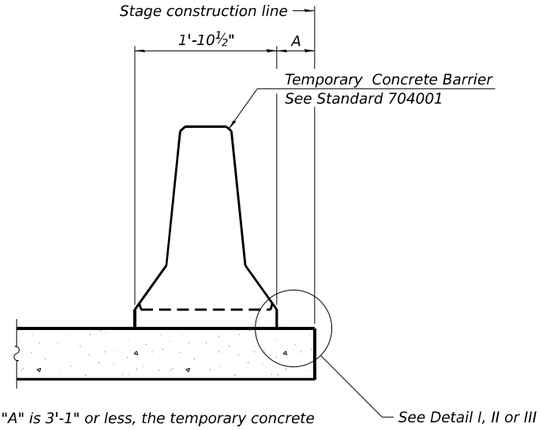
USER NAME = iformell	DESIGNED - IPF	REVISED -	
	DRAWN - IPF	REVISED -	
	CHECKED - DAC/DH	REVISED -	
PLOT DATE = 10/1/2025	DATE - 2/25/2026	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STAGE CONSTRUCTION DETAILS
STRUCTURE NO. 002-0038

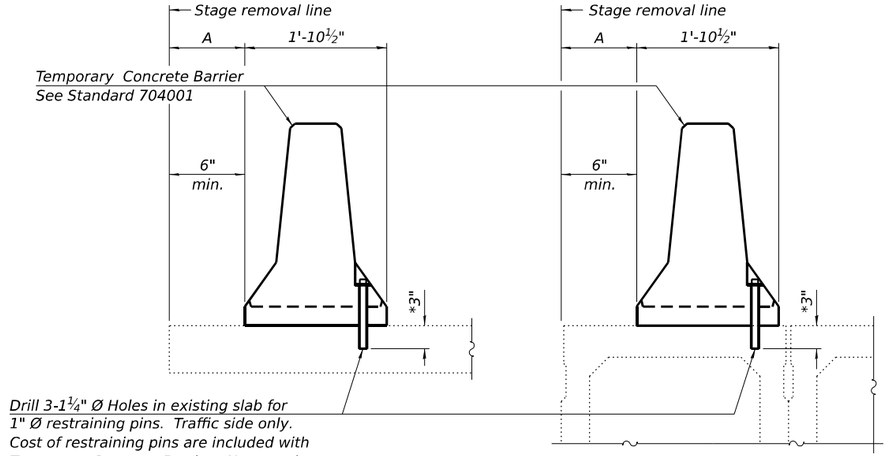
SCALE: | SHEET 3 OF 25 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
14	136-1B	ALEXANDER	82	35
		CONTRACT NO. 78791		
	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

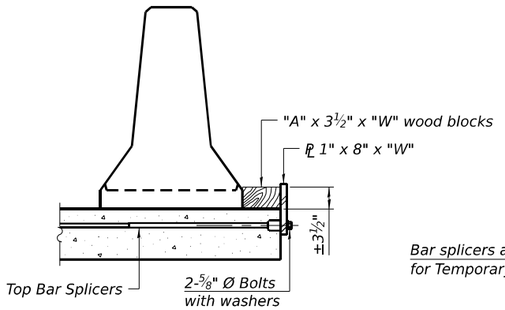


EXISTING SLAB

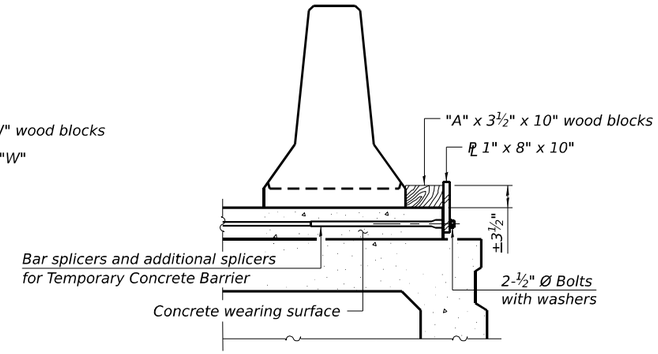
* When hot-mix asphalt wearing surface is present, embedment shall be 3" plus the wearing surface depth.

EXISTING DECK BEAM

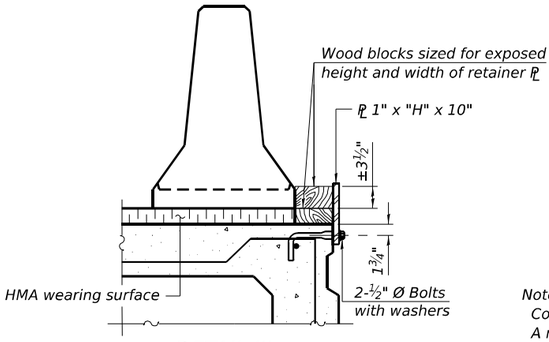
SECTIONS THRU SLAB OR DECK BEAM



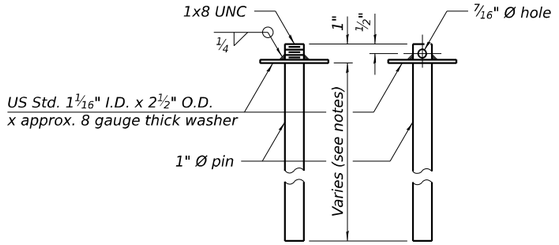
DETAIL I



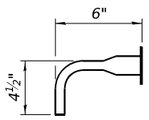
DETAIL II



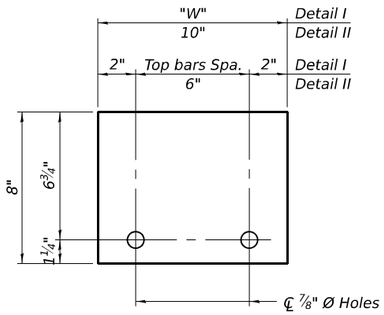
DETAIL III



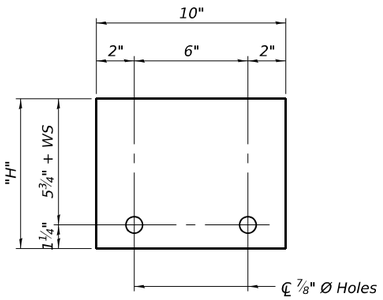
RESTRAINING PIN



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)

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

5-15-2023

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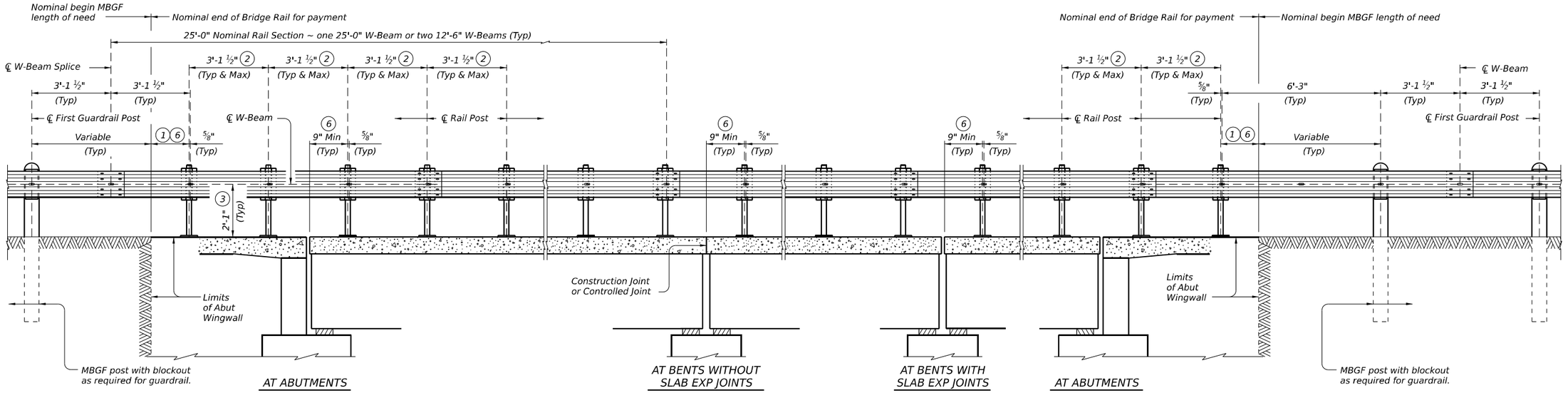
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY CONCRETE BARRIER
STRUCTURE NO. 002-0038

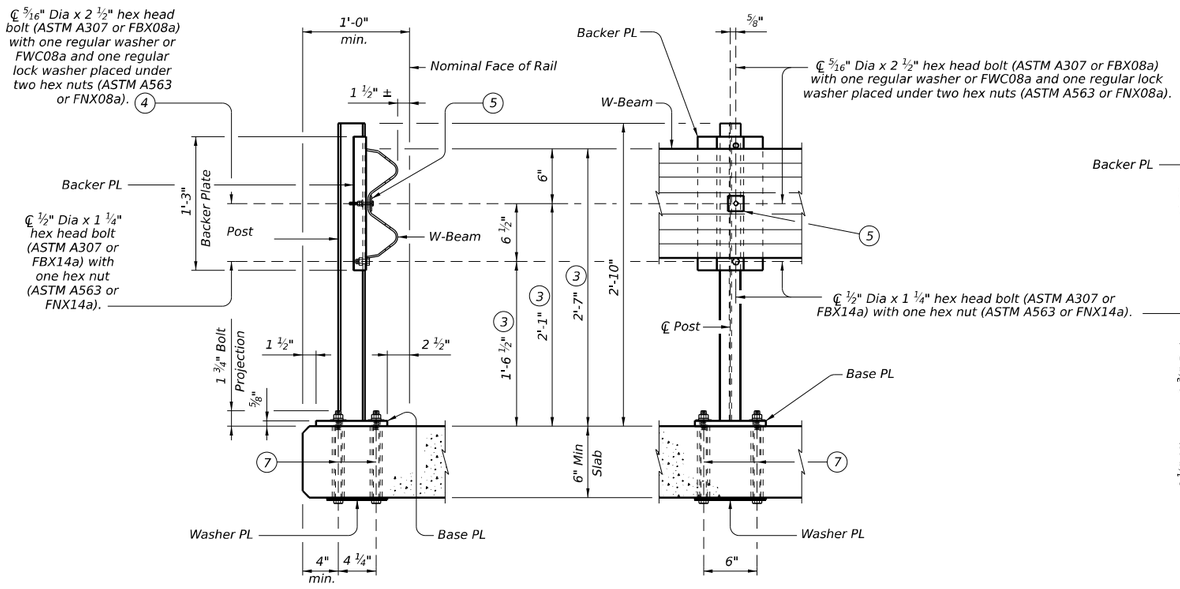
SCALE: | SHEET 4 OF 25 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
14	136-1B	ALEXANDER	82	36
		CONTRACT NO. 78791		
	ILLINOIS FED. AID PROJECT			



ROADWAY ELEVATION OF RAIL

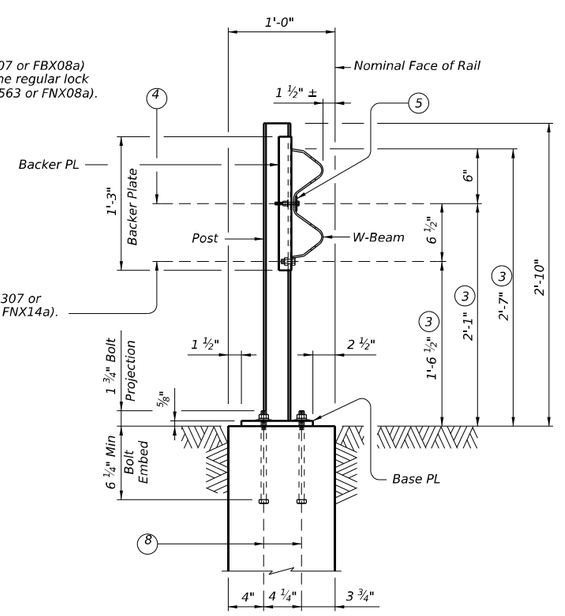
Showing without overlay.



RAIL SECTION — TRAFFIC SIDE RAIL VIEW

RAIL DETAILS ON BRIDGE SLAB

Showing without overlay.



RAIL SECTION ON ABUTMENT WINGWALL

Showing without overlay.

(1) 9" Min, 5'-9" Max

(2) Maintain 3'-1 ½" Rail Post spacing wherever possible for use with nominal 25'-0" or 12'-6" W-Beam sections. Symmetry of post spacing on both sides and along the structure is not necessary.

(3) Increase 2" for structures with overlay.

(4) Tighten the first hex nut by hand until the top and bottom edges of the W-Beam engage the Backer Plate (Backer Plate should be snug against the post). Then tighten hex nut one revolution with wrench and secure with the second hex nut.

(5) PL ⅛ x 1 ¾ x 1¾ with ⅜ Dia Hole centered in PL (ASTM A36). Square Guardrail Washer (FWR01).

(6) The post nearest to a slab joint or end of structure may be shifted up to 9" in order to satisfy the minimum offset dimension. Drill a new ¾" Dia hole on the centerline of W-beam for shifted post. Paint hole with two coats of zinc-rich paint conforming to the Item "Galvanizing". All other posts must remain on the typical spacing.

(7) ℄ ⅞" Dia formed holes for ℄ ⅝" Dia heavy hex head anchor bolt (ASTM F3125 Gr A325 or A449) or threaded rod (ATSM A193 Gr B7 or F1554 Gr 105) with one hardened steel washer (ASTM F436) and one regular lock washer placed under heavy hex nut (ASTM A563). One additional heavy hex nut must be furnished and tack welded for each threaded rod. See "Cast-In-Place & Formed Hole Anchor Bolt Options".

(8) ℄ ⅝" Dia heavy hex head anchor bolt (ASTM F3125 Gr A325 or A449) or threaded rod (ATSM A193 Gr B7 or F1554 Gr 105) with one hardened steel washer (ASTM F436) and one regular lock washer placed under heavy hex nut (ASTM A563). One additional heavy hex nut must be furnished and tack welded for each threaded rod. See "Cast-In-Place & Formed Hole Anchor Bolt Options".

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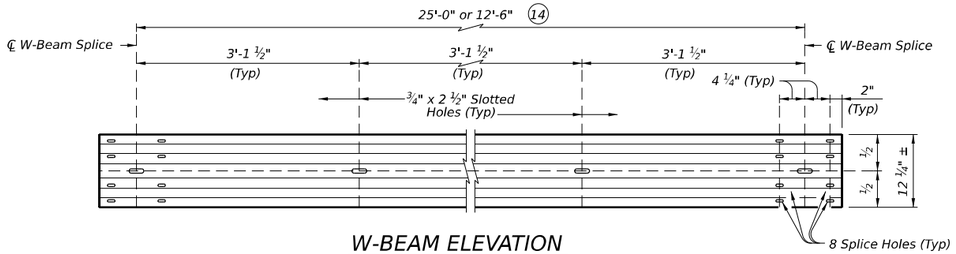
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

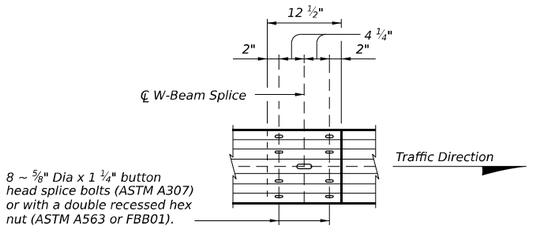
TEXAS TRAFFIC RAIL - TYPE T631 - I
STRUCTURE NO. 002-0038

SCALE: | SHEET 5 OF 25 SHEETS | STA. | TO STA.

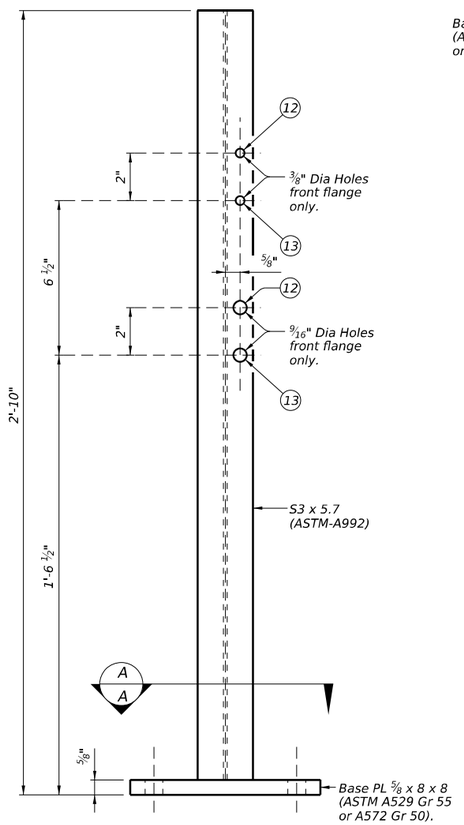
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
14	136-1B	ALEXANDER	82	37
		CONTRACT NO. 78791		
	ILLINOIS	FED. AID PROJECT		



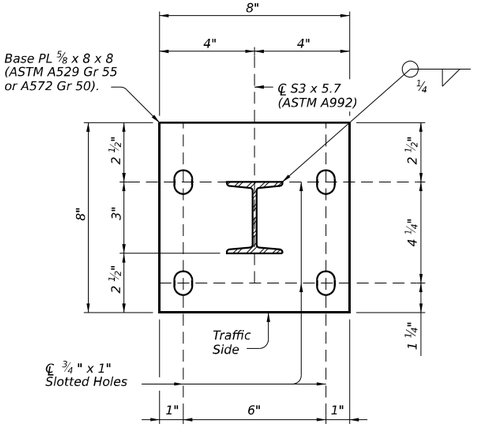
W-BEAM ELEVATION



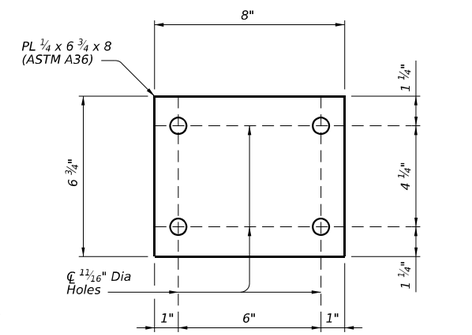
W-BEAM SPLICE ELEVATION



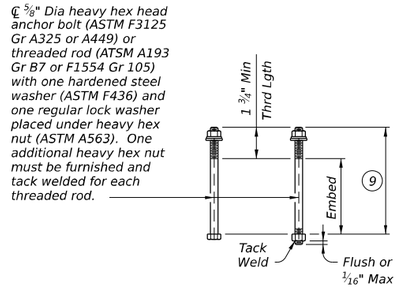
POST ELEVATION



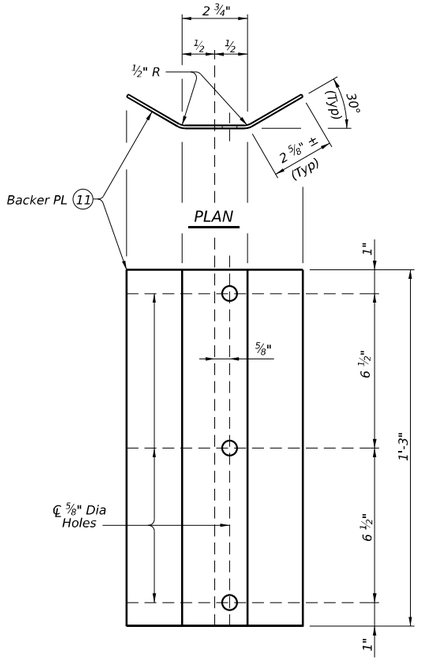
SECTION A-A



WASHER PLATE DETAIL



CAST-IN-PLACE & FORMED HOLE ANCHOR BOLT OPTIONS (10)



ELEVATION

BACKER PLATE

(9) See "Rail Details On Bridge Slab" and/or "Rail Section On Abutment Wingwall".

(10) See "Material Notes" for anchor bolt information.

(11) Backer PL ⅛ x 8 x 1'-3" (ASTM A1011 CS or SS Gr 33, or A1008 CS or SS Gr 33 (11 Gage acceptable)).

(12) Used for structures with overlay.

(13) Used for structures without overlay.

(14) At the nominal end of the bridge rail for payment, one 9'-4 ½" or 6'-3" W-beam section is permitted in order to achieve the required W-Beam splice location on the MBGF.

MBGF AND END TREATMENT NOTES:

This traffic railing must be anchored by metal beam guard fence (MBGF) and guard fence end treatments. Determine MBGF length of need in accordance with the Roadway Design Manual, unless otherwise specified. The minimum MBGF length of need required for anchoring the railing is 25' of MBGF plus the appropriate end treatment installed tangent to the primary roadway.

CONSTRUCTION NOTES:

Face of rail post must be plumb unless otherwise approved by the Engineer. Post must be perpendicular to adjacent roadway grade. Use epoxy mortar under post base plates if gaps larger than 1⁄16" exist.

Fully anchored guardrail must be attached to each end of rail. A metal beam guard fence transition is not used with this rail.

At the Contractor's option anchor bolts may be an adhesive anchor system. See "Material Notes".

Test adhesive anchors in accordance with Article 509.06 of the Standard Specification.Test 3 anchors per 100 anchors installed. Perform corrective measures to provide adequate capacity if any of the tests do not meet the required test load. Repair damage from testing as directed.

It is recommended to show a Rail Layout with rail posts and W-beam splices. Fabricator must submit erection drawings to the Engineer fo rapproval.

Round or chamfer exposed edges of rail post and backer plate to approximately 1⁄16" by grinding.

Shop drawings are not required for this rail.

MATERIAL NOTES:

Galvanize all steel components.

Anchor bolts for base plate must be ⅝" Dia ASTM F3125 Gr A325 or A449 bolts (or ASTM A193 Gr B7 or F1554 Gr 105 threaded rods with one tack welded heavy hex nut each) with one hardened steel washer (ASTM F436) and one regular lock washer placed under each heavy hex nut. Nuts must conform to ASTM A563 requirements.

Optional adhesive anchorage system must be ⅝" Dia ASTM A193 Gr B7 or F1554 Gr 105 fully threaded rods with one hardened steel washer (ASTM F436) and one regular lock washer placed under each heavy hex nut. Nuts must conform to ASTM A563 requirements. Embed fully threaded rod into slab and/or abutment wingwall using a Type III, Class C, D, E, or F anchor adhesive. Minimum adhesive anchor embedment depth is 4 ¾". Anchor adhesive chosen must be able to achieve a nominal bond strength in tension of a single anchor, Na, of 8 kips (edge distance must be accounted for). Submit signed and sealed calculations or the manufacturer's published literature showing the proposed anchor adhesive's ability to develop this load to the Engineer for approval prior to use. Anchor installation, including hole size, drilling, and clean out, must be in accordance with Article 509.07 of the Standard Specification.

W-beam must meet the requirements of Article 509.02 of the Standard Specifications except as modified in the plans. The Contractor may furnish rail elements of 25'-0" or 12'-6" (Nominal) lengths and a single rail element of 9'-4 ½" or 6'-3" (Nominal) length.

W-Beam must have slotted holes at 3'-1 ½".

GENERAL NOTES:

This railing has been successfully evaluated by full-scale crash test to meet MASH TL-3 criteria. This railing can be used for speeds of 50 mph and greater.

This rail is designed to deflect approximately 4' to 4'-6" as it contains and redirects the errant vehicle. This rail may not be installed on top of or behind curbs that project above finished grade, on bridges with expansion joints providing more than 5" movement, on retaining walls, or on grade separations and interchanges.

Repairs to impact-damaged post and base plate unit are not permitted. Replace all impact-damaged posts with a new post and base plate unit.

Average weight of railing with no overlay: 20 plf total.

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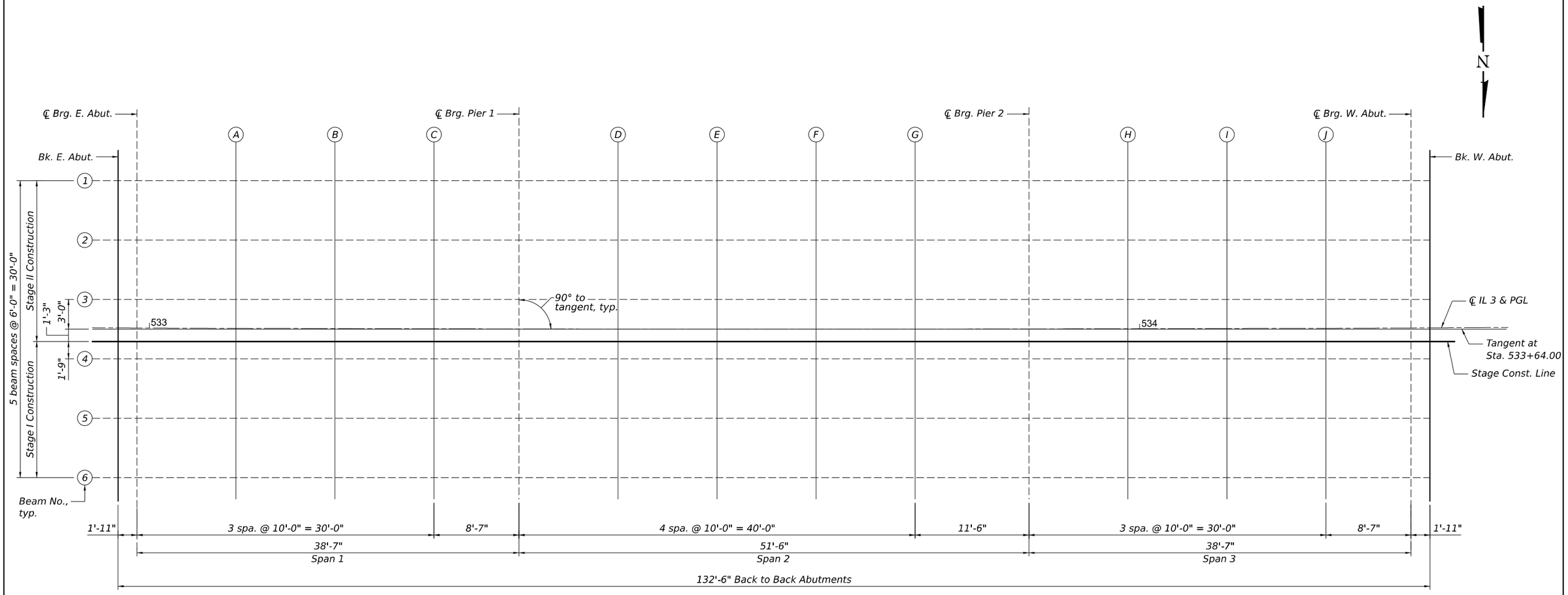
PLOT DATE = 12/18/2025	DATE - 2/25/2026	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEXAS TRAFFIC RAIL - TYPE T631 - II
STRUCTURE NO. 002-0038

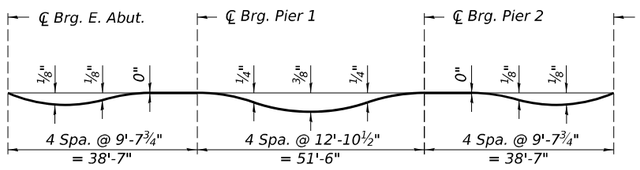
SCALE: | SHEET 6 OF 25 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
14	136-1B	ALEXANDER	82	38
		CONTRACT NO. 78791		
	ILLINOIS	FED. AID PROJECT		



PLAN

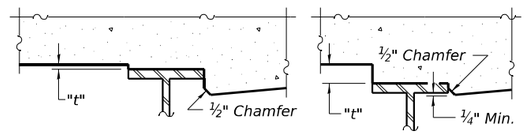
(All horizontal dimensions are along tangent)



DEAD LOAD DEFLECTION DIAGRAM

(Includes weight of concrete only.)

Note:
The above deflections are not to be used in the field if the engineer is working from the grade elevations adjusted for dead load deflections as shown in sheet 8 of 25.



At Minimum Fillet *At Maximum Fillet*

To determine "t": After all structural steel has been erected, elevations of the top flanges of the beams shall be taken at intervals shown below. These elevations subtracted from the "Theoretical Grade Elevations Adjusted for Dead Load Deflection" shown on sheet 8 of 25, minus slab thickness, equals the fillet heights "t" above top flange of beams.

FILLET HEIGHTS

FILE NAME: L:\IDOT\22000610-00\WO_14178791\CADD Data\Bridge\CADD_Sheets\0020038-78791-007-Top of Deck Elevations - I.dgn

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TOP OF DECK ELEVATIONS - I
STRUCTURE NO. 002-0038

SCALE: | SHEET 7 OF 25 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
14	136-1B	ALEXANDER	82	39
		CONTRACT NO. 78791		
	ILLINOIS	FED. AID PROJECT		

BEAM 1

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. E. Abut.	532+97.69	-14.87	335.99	335.99
℄ Brg. E. Abut.	532+99.61	-14.88	336.00	336.00
A	533+09.62	-14.92	336.07	336.08
B	533+19.62	-14.94	336.12	336.13
C	533+29.63	-14.97	336.17	336.17
℄ Brg. Pier 1	533+38.22	-14.98	336.19	336.19
D	533+48.23	-14.99	336.22	336.23
E	533+58.24	-15.00	336.23	336.26
F	533+68.25	-15.00	336.23	336.26
G	533+78.26	-14.99	336.22	336.24
℄ Brg. Pier 2	533+89.77	-14.98	336.19	336.19
H	533+99.78	-14.96	336.16	336.17
I	534+09.79	-14.94	336.11	336.12
J	534+19.79	-14.91	336.06	336.07
℄ Brg. W. Abut.	534+28.39	-14.88	336.00	336.00
Bk. W. Abut.	534+30.30	-14.87	335.99	335.99

BEAM 2

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. E. Abut.	532+97.71	-8.87	336.09	336.09
℄ Brg. E. Abut.	532+99.63	-8.88	336.11	336.11
A	533+09.63	-8.92	336.17	336.18
B	533+19.64	-8.94	336.23	336.24
C	533+29.65	-8.97	336.27	336.27
℄ Brg. Pier 1	533+38.23	-8.98	336.30	336.30
D	533+48.24	-8.99	336.32	336.33
E	533+58.24	-9.00	336.33	336.36
F	533+68.25	-9.00	336.33	336.36
G	533+78.25	-8.99	336.32	336.34
℄ Brg. Pier 2	533+89.76	-8.98	336.30	336.30
H	533+99.77	-8.96	336.26	336.27
I	534+09.77	-8.94	336.22	336.23
J	534+19.78	-8.91	336.16	336.17
℄ Brg. W. Abut.	534+28.36	-8.88	336.11	336.11
Bk. W. Abut.	534+30.28	-8.87	336.09	336.09

BEAM 3

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. E. Abut.	532+97.74	-2.87	336.18	336.18
℄ Brg. E. Abut.	532+99.65	-2.88	336.20	336.20
A	533+09.65	-2.92	336.26	336.27
B	533+19.66	-2.94	336.32	336.33
C	533+29.66	-2.97	336.36	336.36
℄ Brg. Pier 1	533+38.24	-2.98	336.39	336.39
D	533+48.24	-2.99	336.41	336.42
E	533+58.25	-3.00	336.42	336.45
F	533+68.25	-3.00	336.42	336.45
G	533+78.25	-2.99	336.41	336.43
℄ Brg. Pier 2	533+89.75	-2.98	336.39	336.39
H	533+99.75	-2.96	336.35	336.36
I	534+09.75	-2.94	336.31	336.32
J	534+19.76	-2.91	336.25	336.26
℄ Brg. W. Abut.	534+28.34	-2.82	336.20	336.20
Bk. W. Abut.	534+30.26	-2.87	336.18	336.18

℄ IL 3 & PGL

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. E. Abut.	532+97.75	0.00	336.23	336.23
℄ Brg. E. Abut.	532+99.66	0.00	336.24	336.24
A	533+09.66	0.00	336.31	336.32
B	533+19.66	0.00	336.36	336.37
C	533+29.66	0.00	336.40	336.40
℄ Brg. Pier 1	533+38.25	0.00	336.43	336.43
D	533+48.25	0.00	336.46	336.47
E	533+58.25	0.00	336.47	336.50
F	533+68.25	0.00	336.47	336.50
G	533+78.25	0.00	336.46	336.48
℄ Brg. Pier 2	533+89.75	0.00	336.43	336.43
H	533+99.75	0.00	336.40	336.41
I	534+09.75	0.00	336.35	336.36
J	534+19.75	0.00	336.30	336.31
℄ Brg. W. Abut.	534+28.33	0.00	336.24	336.24
Bk. W. Abut.	534+30.25	0.00	336.23	336.23

STAGE CONSTRUCTION LINE

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. E. Abut.	532+97.75	1.38	336.21	336.21
℄ Brg. E. Abut.	532+99.67	1.37	336.22	336.22
A	533+09.67	1.34	336.29	336.30
B	533+19.67	1.31	336.34	336.35
C	533+29.67	1.28	336.39	336.39
℄ Brg. Pier 1	533+38.25	1.27	336.41	336.41
D	533+48.25	1.26	336.44	336.45
E	533+58.25	1.25	336.45	336.48
F	533+68.25	1.25	336.45	336.48
G	533+78.25	1.26	336.44	336.46
℄ Brg. Pier 2	533+89.74	1.27	336.41	336.41
H	533+99.74	1.29	336.38	336.39
I	534+09.74	1.31	336.33	336.34
J	534+19.74	1.34	336.28	336.29
℄ Brg. W. Abut.	534+28.32	1.37	336.22	336.22
Bk. W. Abut.	534+30.24	1.38	336.21	336.21

BEAM 4

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. E. Abut.	532+97.76	3.13	336.18	336.18
℄ Brg. E. Abut.	532+99.67	3.12	336.19	336.19
A	533+09.67	3.09	336.26	336.27
B	533+19.67	3.06	336.31	336.32
C	533+29.67	3.03	336.36	336.36
℄ Brg. Pier 1	533+38.25	3.02	336.39	336.39
D	533+48.25	3.01	336.41	336.42
E	533+58.25	3.00	336.42	336.45
F	533+68.25	3.00	336.42	336.45
G	533+78.24	3.01	336.41	336.43
℄ Brg. Pier 2	533+89.74	3.02	336.39	336.39
H	533+99.74	3.04	336.35	336.36
I	534+09.74	3.06	336.31	336.32
J	534+19.74	3.09	336.25	336.26
℄ Brg. W. Abut.	534+28.32	3.12	336.19	336.19
Bk. W. Abut.	534+30.23	3.13	336.18	336.18

BEAM 5

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. E. Abut.	532+97.78	9.13	336.09	336.09
℄ Brg. E. Abut.	532+99.70	9.12	336.10	336.10
A	533+09.69	9.09	336.17	336.18
B	533+19.69	9.06	336.23	336.24
C	533+29.68	9.03	336.27	336.27
℄ Brg. Pier 1	533+38.26	9.02	336.30	336.30
D	533+48.25	9.01	336.32	336.33
E	533+58.25	9.00	336.33	336.36
F	533+68.24	9.00	336.33	336.36
G	533+78.24	9.01	336.32	336.34
℄ Brg. Pier 2	533+89.73	9.02	336.30	336.30
H	533+99.73	9.04	336.26	336.27
I	534+09.72	9.06	336.22	336.23
J	534+19.72	9.09	336.16	336.17
℄ Brg. W. Abut.	534+28.30	9.12	336.10	336.10
Bk. W. Abut.	534+30.21	9.13	336.09	336.09

BEAM 6

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. E. Abut.	532+97.80	15.13	335.98	335.98
℄ Brg. E. Abut.	532+99.72	15.12	336.00	336.00
A	533+09.71	15.09	336.06	336.07
B	533+19.70	15.06	336.12	336.13
C	533+29.69	15.03	336.16	336.16
℄ Brg. Pier 1	533+38.27	15.02	336.19	336.19
D	533+48.26	15.01	336.22	336.23
E	533+58.25	15.00	336.23	336.26
F	533+68.24	15.00	336.23	336.26
G	533+78.23	15.01	336.22	336.24
℄ Brg. Pier 2	533+89.72	15.02	336.19	336.19
H	533+99.71	15.04	336.16	336.17
I	534+09.71	15.06	336.11	336.12
J	534+19.70	15.09	336.06	336.07
℄ Brg. W. Abut.	534+28.27	15.12	336.00	336.00
Bk. W. Abut.	534+30.19	15.13	335.98	335.98

FILE NAME: L:\IDOT\220086100-00WO_14787911\CADD Data\Bridge\CADD_Sheets\0020038-78791-008-Top of Deck Elevations - II.dgn

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USER NAME = dcochran	DESIGNED - DAC	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TOP OF DECK ELEVATIONS - I STRUCTURE NO. 002-0038
	DRAWN - IPF	REVISED -		
	CHECKED - DH	REVISED -		
PLOT DATE = 9/23/2025	DATE - 2/25/2026	REVISED -		SCALE: SHEET 8 OF 25 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
14	136-1B	ALEXANDER	82	40
		CONTRACT NO. 78791		
	ILLINOIS	FED. AID PROJECT		

SOUTH EDGE OF SHOULDER

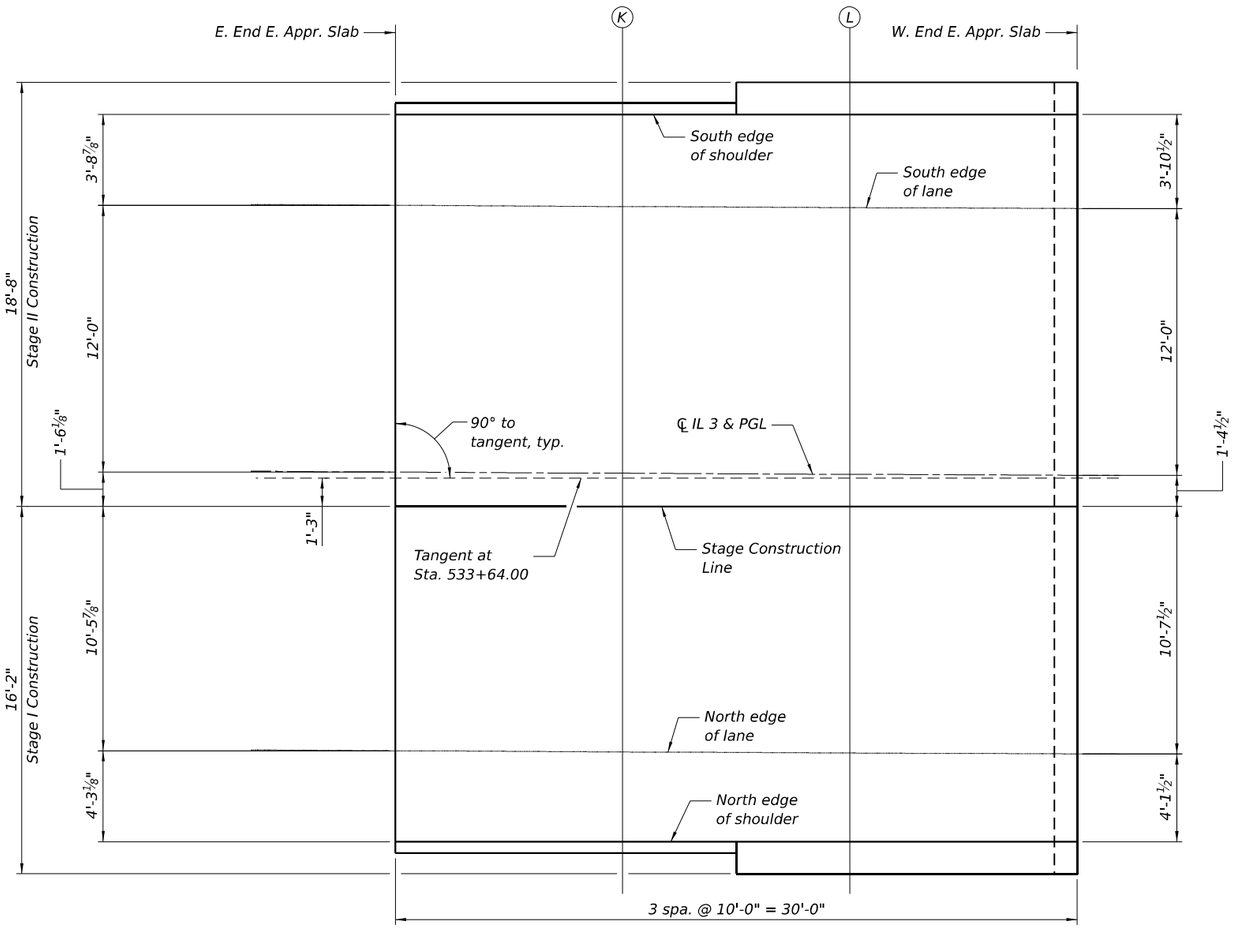
Location	Station	Offset	Theoretical Grade Elevations
E. End E. Appr. Slab	532+68.66	-15.74	335.71
K	532+78.67	-15.79	335.81
L	532+88.68	-15.84	335.90
W. End E. Appr. Slab	532+98.69	-15.88	335.98

SOUTH EDGE OF LANE

Location	Station	Offset	Theoretical Grade Elevations
E. End E. Appr. Slab	532+68.68	-12.00	335.79
K	532+78.69	-12.00	335.89
L	532+88.69	-12.00	335.97
W. End E. Appr. Slab	532+98.70	-12.00	336.05

℄ IL 3 & PGL

Location	Station	Offset	Theoretical Grade Elevations
E. End E. Appr. Slab	532+68.75	0.00	335.97
K	532+78.75	0.00	336.07
L	532+88.75	0.00	336.16
W. End E. Appr. Slab	532+98.75	0.00	336.23



PLAN

(Dimensions at rt. angles to tangent)

N

STAGE CONSTRUCTION LINE

Location	Station	Offset	Theoretical Grade Elevations
E. End E. Appr. Slab	532+68.75	1.51	335.95
K	532+78.75	1.46	336.04
L	532+88.75	1.41	336.13
W. End E. Appr. Slab	532+98.75	1.37	336.21

NORTH EDGE OF LANE

Location	Station	Offset	Theoretical Grade Elevations
E. End E. Appr. Slab	532+68.81	12.00	335.79
K	532+78.81	12.00	335.89
L	532+88.80	12.00	335.98
W. End E. Appr. Slab	532+98.79	12.00	336.05

NORTH EDGE OF SHOULDER

Location	Station	Offset	Theoretical Grade Elevations
E. End E. Appr. Slab	532+68.84	16.26	335.70
K	532+78.83	16.21	335.80
L	532+88.82	16.16	335.89
W. End E. Appr. Slab	532+98.81	16.12	335.97

Note:
Offsets are from ℄ IL 3.

FILE NAME: L:\IDOT\2200610-00\WO_14178791\CADD Data\Bridge\CADD Sheets\0220038-78791-009-East Approach Slab Elevations.dgn

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EAST APPROACH SLAB DETAILS
STRUCTURE NO. 002-0038

SCALE: | SHEET 9 OF 25 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
14	136-1B	ALEXANDER	82	41
		CONTRACT NO. 78791		
	ILLINOIS	FED. AID PROJECT		

SOUTH EDGE OF SHOULDER

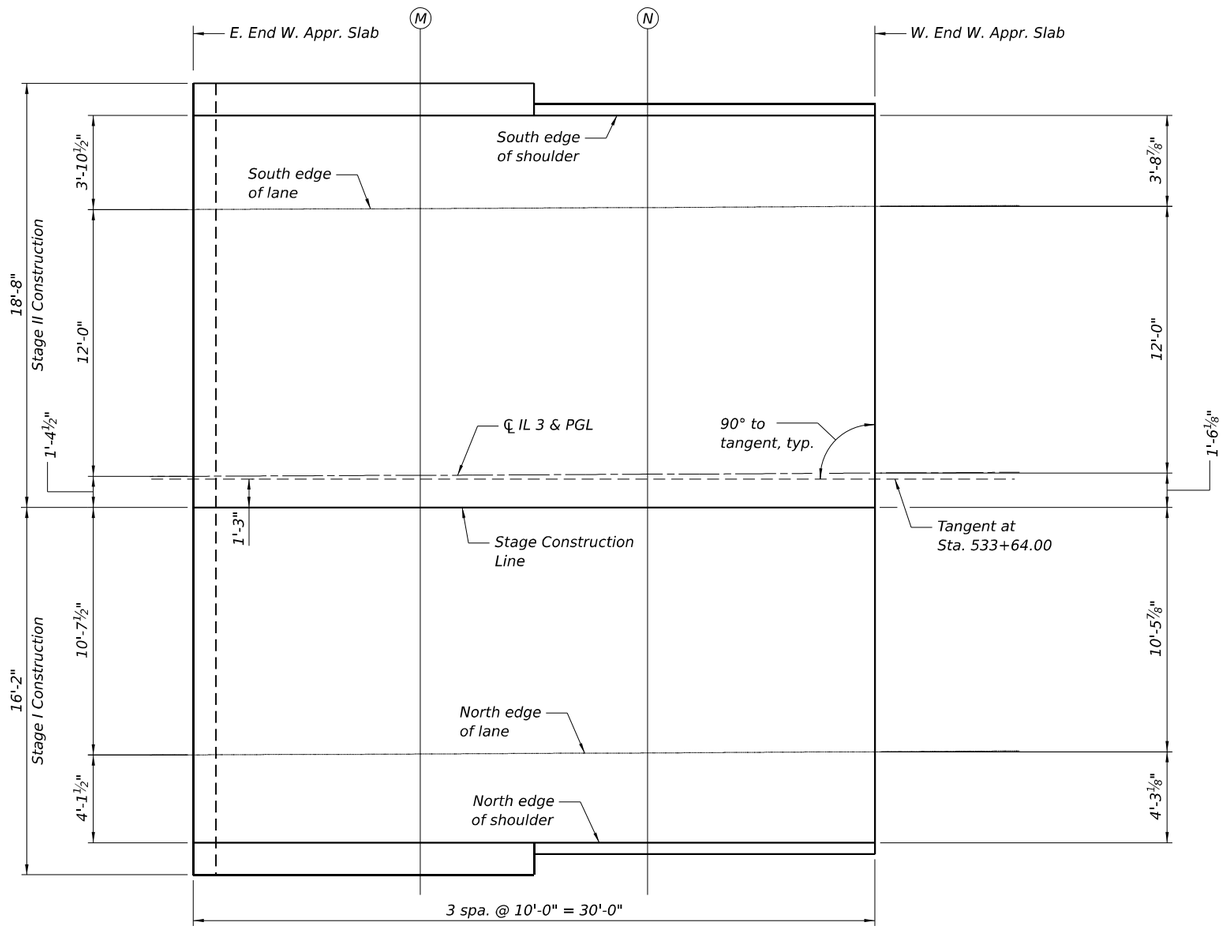
Location	Station	Offset	Theoretical Grade Elevations
E. End W. Appr. Slab	534+29.31	-15.88	335.98
M	534+39.32	-15.83	335.90
N	534+49.33	-15.79	335.81
W. End W. Appr. Slab	534+59.33	-15.74	335.71

SOUTH EDGE OF LANE

Location	Station	Offset	Theoretical Grade Elevations
E. End W. Appr. Slab	534+29.29	-12.00	336.05
M	534+39.30	-12.00	335.97
N	534+49.31	-12.00	335.89
W. End W. Appr. Slab	534+59.31	-12.00	335.79

℄ IL 3 & PGL

Location	Station	Offset	Theoretical Grade Elevations
E. End W. Appr. Slab	534+29.25	0.00	336.23
M	534+39.25	0.00	336.16
N	534+49.25	0.00	336.07
W. End W. Appr. Slab	534+59.25	0.00	335.97



N

PLAN

(Dimensions at rt. angles to tangent)

STAGE CONSTRUCTION LINE

Location	Station	Offset	Theoretical Grade Elevations
E. End W. Appr. Slab	534+29.24	1.37	336.21
M	534+39.24	1.42	336.13
N	534+49.24	1.46	336.04
W. End W. Appr. Slab	534+59.24	1.52	335.94

NORTH EDGE OF LANE

Location	Station	Offset	Theoretical Grade Elevations
E. End W. Appr. Slab	534+29.20	12.00	336.05
M	534+39.19	12.00	335.98
N	534+49.19	12.00	335.89
W. End W. Appr. Slab	534+59.18	12.00	335.79

NORTH EDGE OF SHOULDER

Location	Station	Offset	Theoretical Grade Elevations
E. End W. Appr. Slab	534+29.19	16.12	335.97
M	534+39.18	16.17	335.89
N	534+49.17	16.21	335.80
W. End W. Appr. Slab	534+59.16	16.27	335.70

Note:
Offsets are from ℄ IL 3.

FILE NAME: L:\IDOT\22006610-00\WO_14\78791\CADD Data\Bridge\CADD_Sheets\0920038-78791-010-West Approach Slab Elevations.dgn

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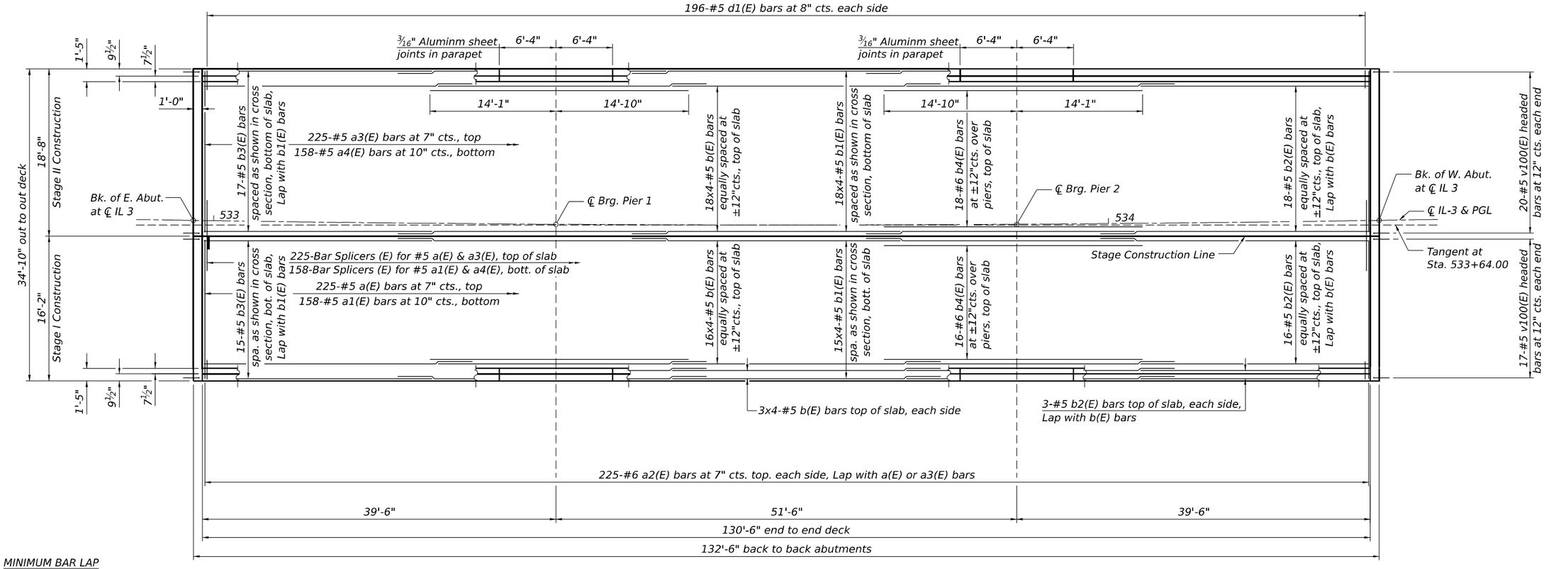
PLOT DATE = 12/4/2025	DATE - 2/25/2026	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WEST APPROACH SLAB DETAILS
STRUCTURE NO. 002-0038

SCALE: | SHEET 10 OF 25 SHEETS | STA. | TO STA.

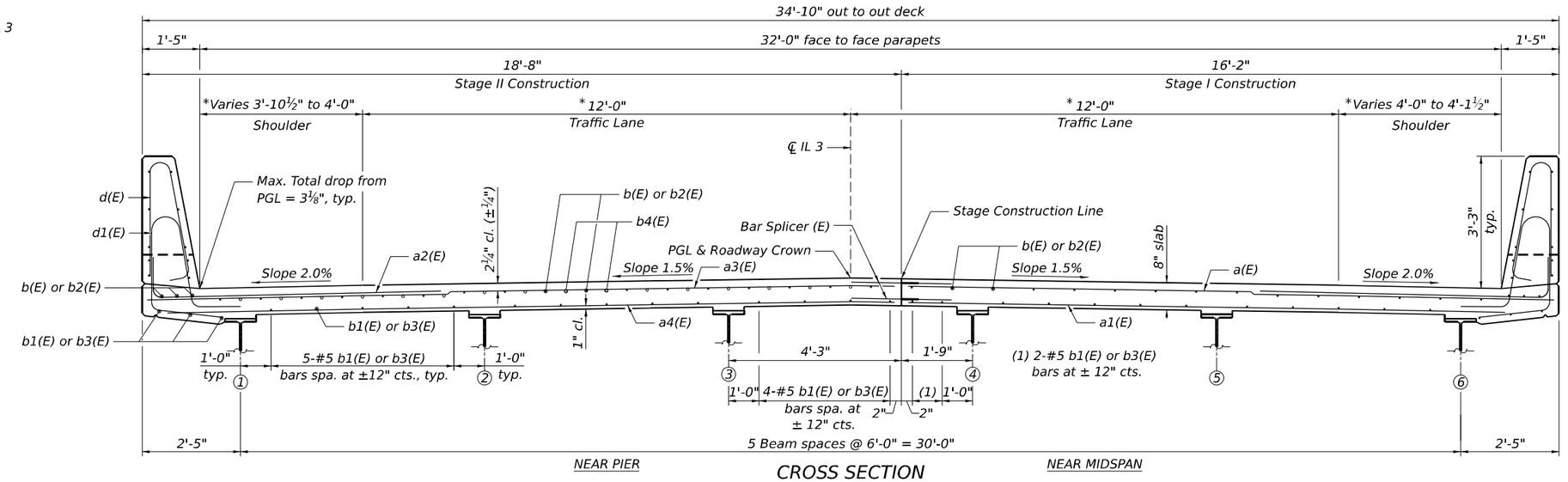
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
14	136-1B	ALEXANDER	82	42
		CONTRACT NO. 78791		
		ILLINOIS	FED. AID PROJECT	



PLAN

MINIMUM BAR LAP
#5 bar = 3'-10"
#6 bar = 3'-11"

* Radial to ℄ IL 3



CROSS SECTION
(Looking West)

Notes:
1. See sheet 12 of 25 for superstructure details and Bill of Material.
2. Bars indicated thus 16 x 4-#5 etc. indicates 16 lines of bars with 4 lengths per line.

FILE NAME: L:\IDOT\220068\10-00\WO_14178791\CADD Data\Bridge\CADD_Sheets\00200038-78791-011-Superstructure.dgn

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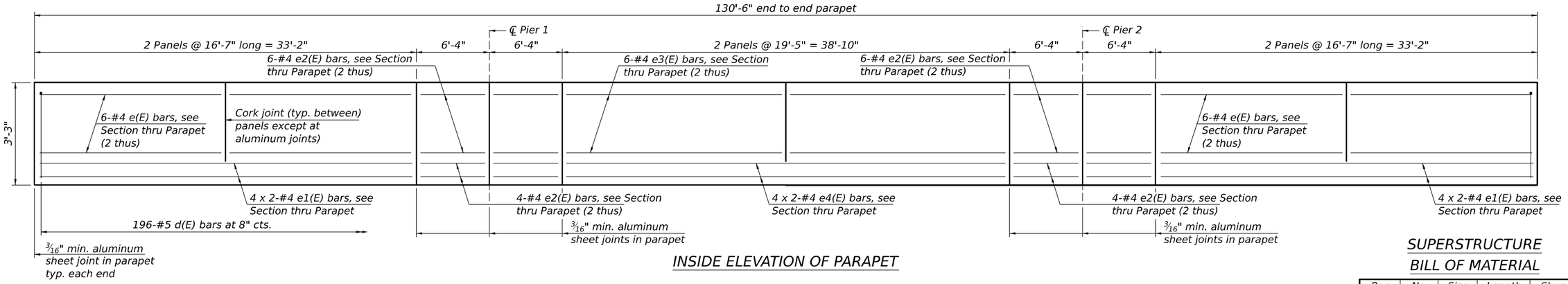
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUPERSTRUCTURE
STRUCTURE NO. 002-0038

SCALE: | SHEET 11 OF 25 SHEETS | STA. | TO STA.

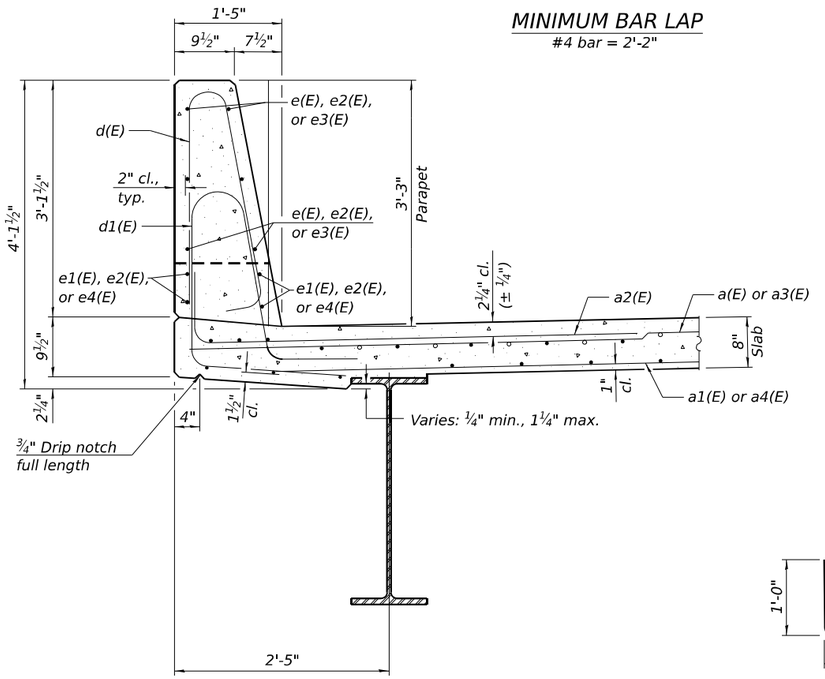
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
14	136-1B	ALEXANDER	82	43
		CONTRACT NO. 78791		
	ILLINOIS	FED. AID PROJECT		



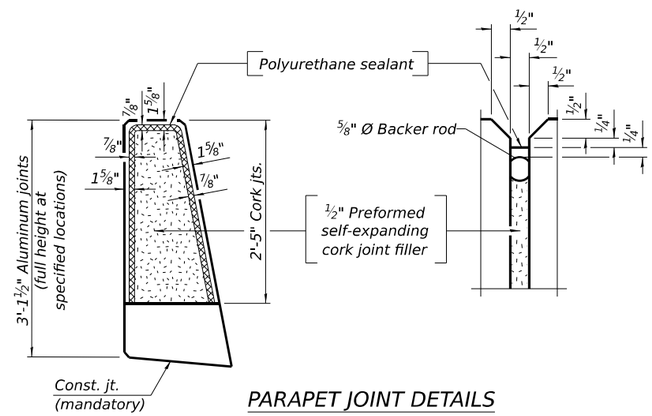
INSIDE ELEVATION OF PARAPET

MINIMUM BAR LAP

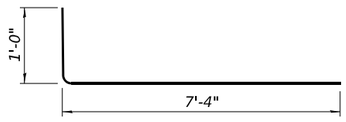
#4 bar = 2'-2"



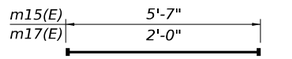
SECTION THRU PARAPET



PARAPET JOINT DETAILS

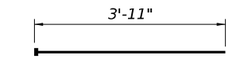


BAR a2(E)



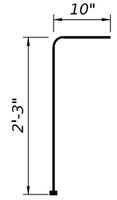
BARS m15(E) & m17(E)

(Headed. 48-#6 Bar Terminators)



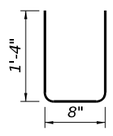
BAR m19(E)

(Headed. 4-#6 Bar Terminators)

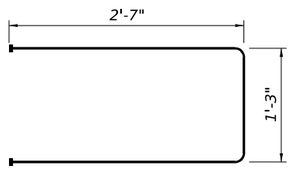


BAR v100(E)

(Headed. 74-#5 Bar Terminators)

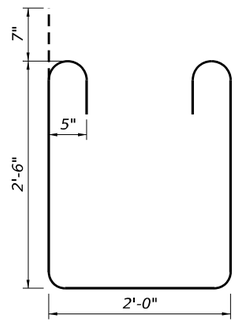


BAR u10(E)

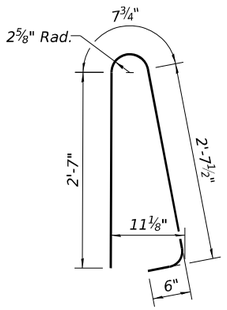


BAR s10(E)

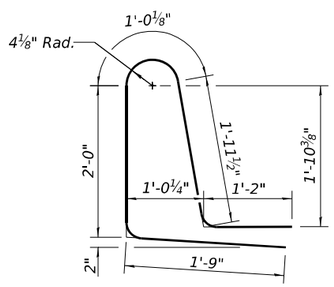
(Headed. 144-#5 Bar Terminators)



BAR s11(E)



BAR d(E)



BAR d1(E)

SUPERSTRUCTURE BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a(E)	225	#5	15'-10"	
a1(E)	158	#5	15'-3"	
a2(E)	450	#6	8'-4"	
a3(E)	225	#5	18'-4"	
a4(E)	158	#5	17'-9"	
b(E)	160	#5	30'-0"	
b1(E)	132	#5	30'-0"	
b2(E)	40	#5	25'-6"	
b3(E)	32	#5	25'-6"	
b4(E)	68	#6	28'-11"	
d(E)	392	#5	6'-5"	
d1(E)	392	#5	7'-11"	
e(E)	48	#4	16'-3"	
e1(E)	32	#4	17'-6"	
e2(E)	80	#4	6'-0"	
e3(E)	24	#4	19'-1"	
e4(E)	16	#4	20'-4"	
m10(E)	8	#6	15'-10"	
m11(E)	8	#6	18'-4"	
m12(E)	4	#4	15'-10"	
m13(E)	4	#4	18'-4"	
m14(E)	16	#6	5'-7"	
m15(E)	16	#6	5'-7"	
m16(E)	8	#6	2'-0"	
m17(E)	8	#6	2'-0"	
m18(E)	4	#6	3'-11"	
m19(E)	4	#6	3'-11"	
s10(E)	72	#5	6'-5"	
s11(E)	72	#5	8'-2"	
u10(E)	72	#4	3'-4"	
v100(E)	74	#5	3'-1"	
Concrete Superstructure			Cu. Yds.	171.6
Reinforcement Bars, Epoxy Coated			Pound	43,060

Notes:

1. *The 3/16" minimum aluminum sheet shall be ASTM B 209 alloy 3003-H14 and coated with 5 mils of either bitumen paint or epoxy paint to minimize reaction with wet concrete. Cost included with Concrete Superstructure.*
2. *The Polyurethane Sealant shall be according to Article 1050.04 of the Std. Spec. and the color shall be gray.*
3. *Bar terminators, paid for separately. See Total Bill of Material.*
4. *Bars indicated thus 4 x 2-#4 etc. indicates 4 line of bars with 2 lengths per line.*

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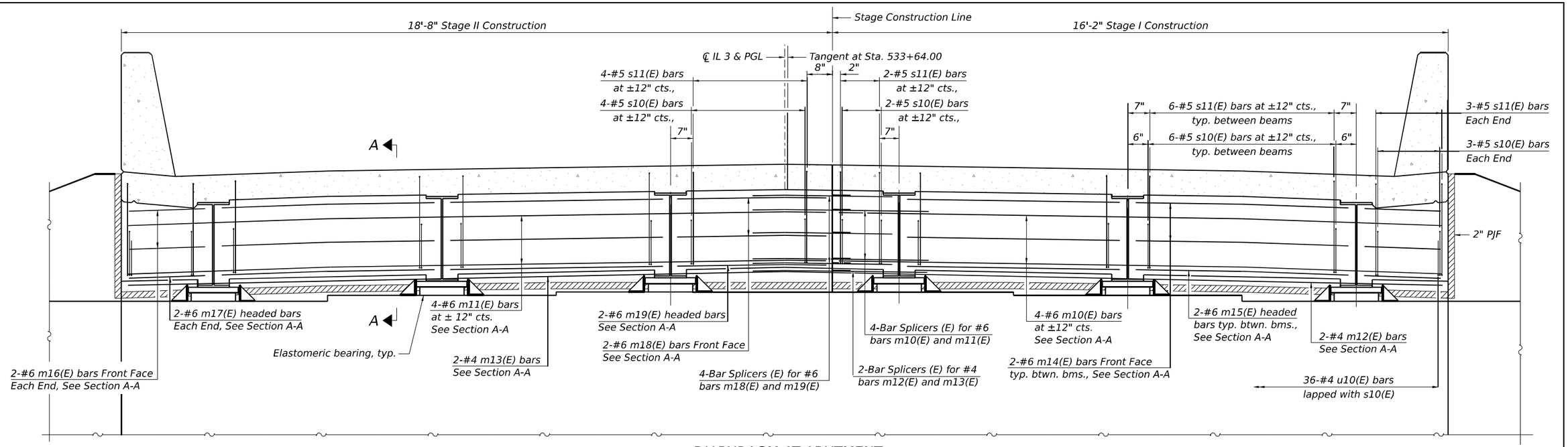
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUPERSTRUCTURE DETAILS
STRUCTURE NO. 002-0038

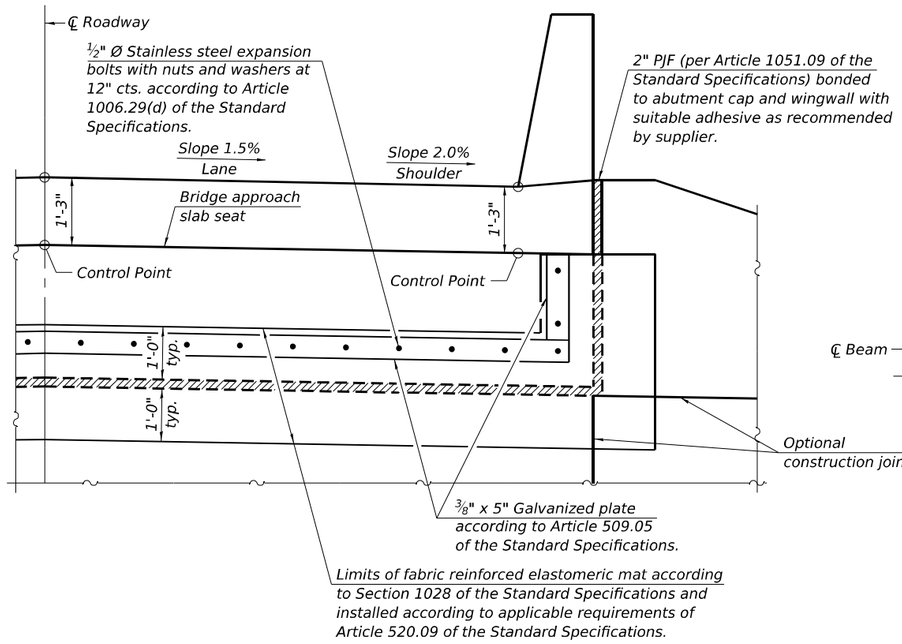
SCALE: | SHEET 12 OF 25 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
14	136-1B	ALEXANDER	82	44
		CONTRACT NO. 78791		
		ILLINOIS	FED. AID PROJECT	



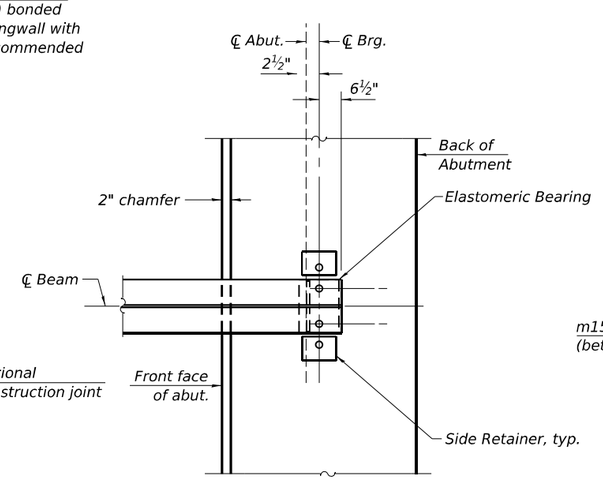
DIAPHRAGM AT ABUTMENT

(West abutment shown, east abutment similar)



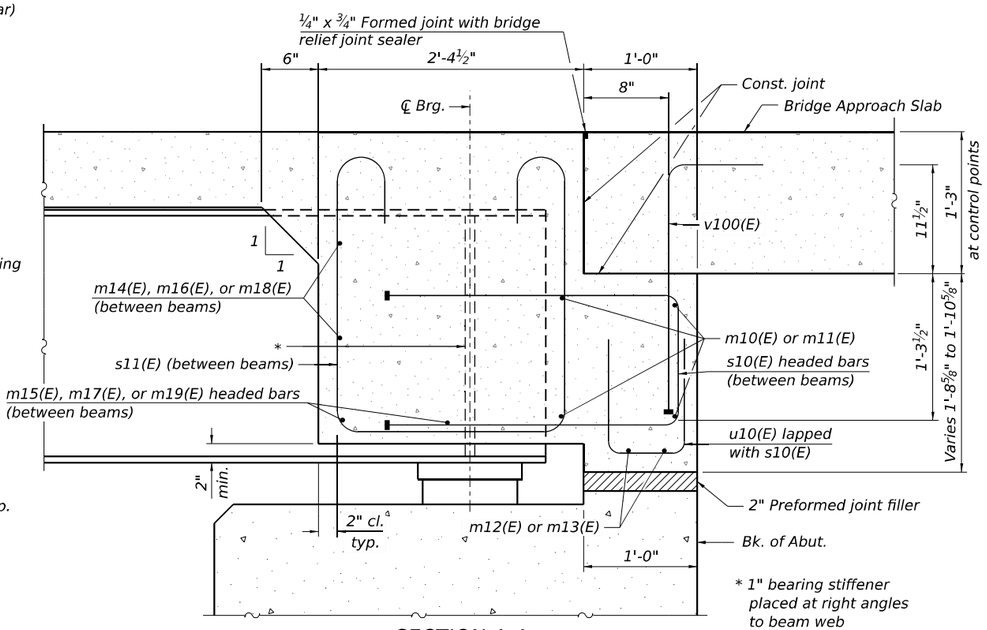
ELEVATION

(Looking at back of abutment)



PLAN AT ABUTMENT

(Showing bottom flange of beam)



* 1" bearing stiffener placed at right angles to beam web

SECTION A-A

(Horizontal dimensions at Rt. ∠'s to abutment)

Notes:

1. See sheet 12 of 25 for superstructure details and Bill of Material.
2. See sheet 14 of 25 for PJF details.
3. Cost of fabric reinforced elastomeric mat, galvanized plate, stainless steel expansion bolts with nuts and washers and installation are included in the cost of Concrete Superstructure.

FILE NAME: L:\IDOT\22006810-00\WO_14\78791\CADD Data\Bridge\CADD_Sheets\00220038-78791-013-Concrete Diaphragm Details.dgn

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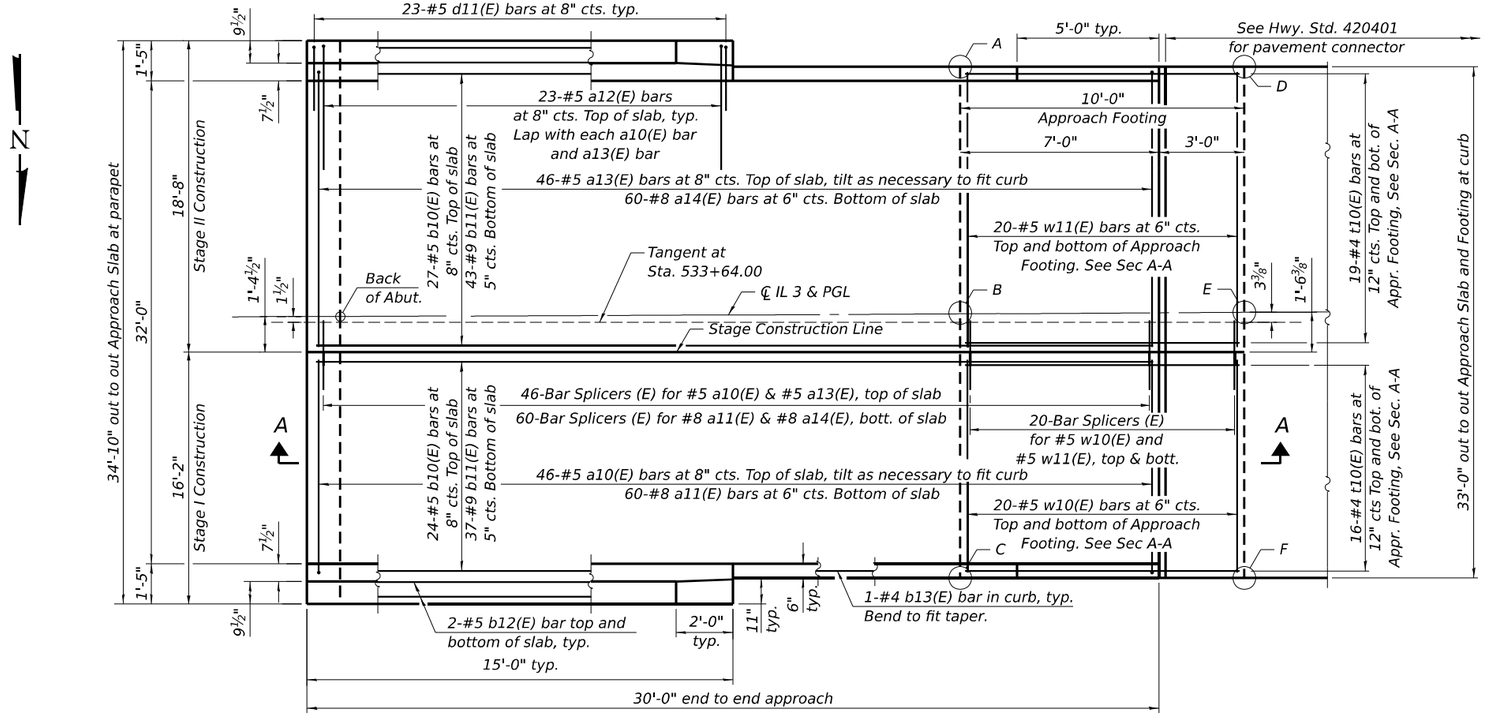
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DIAPHRAGM DETAILS
STRUCTURE NO. 002-0038

SCALE: | SHEET 13 OF 25 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
14	136-1B	ALEXANDER	82	45
		CONTRACT NO. 78791		
		ILLINOIS	FED. AID PROJECT	

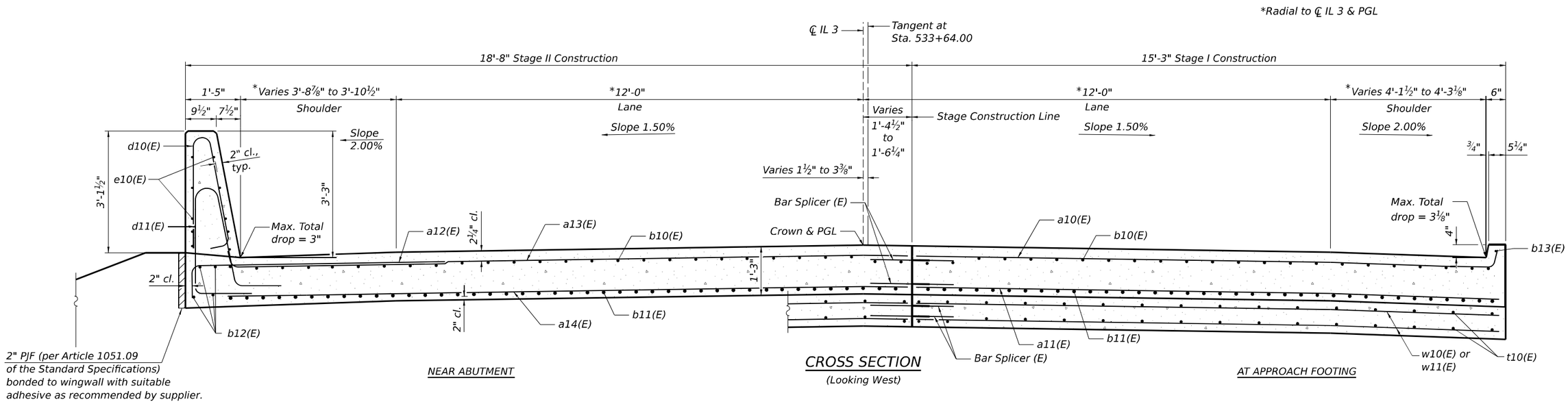


PLAN

(West approach slab shown; East approach slab similar)

TOP AND BOTTOM ELEVATIONS FOR APPROACH FOOTING

East Approach			West Approach		
Point/ Location	Top	Bottom	Point/ Location	Top	Bottom
A - SW	334.52	333.69	A - SE	334.52	333.69
B - West ℄	334.79	333.96	B - East ℄	334.79	333.96
C - NW	334.51	333.68	C - NE	334.51	333.68
D - SE	334.42	333.59	D - SW	334.42	333.59
E - East ℄	334.69	333.86	E - West ℄	334.69	333.86
F - NE	334.41	333.58	F - NW	334.41	333.58



NEAR ABUTMENT

CROSS SECTION

(Looking West)

AT APPROACH FOOTING

FILE NAME: L:\IDOT\220066\10-00\WO_141787\91\CADD Data\Bridge\CADD Sheets\0020038-78791-D14-Approach Slab Plan.dgn

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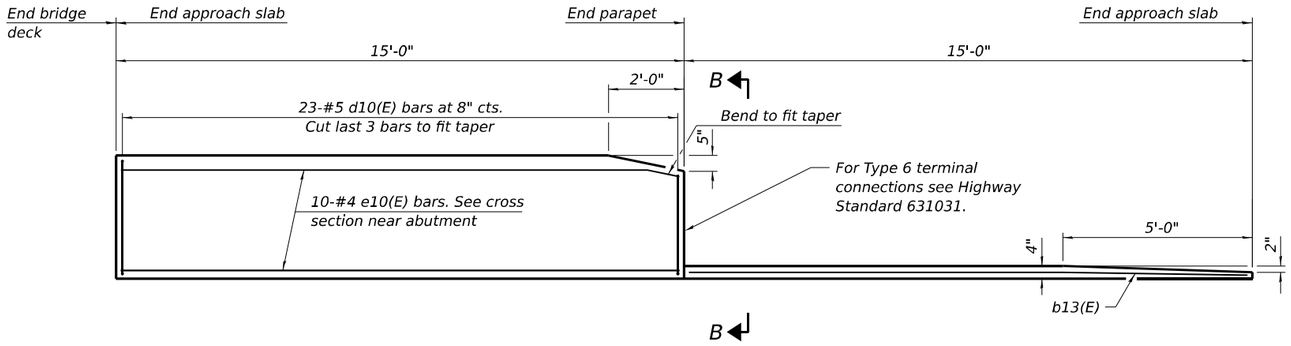
	CHECKED - DAC/DH	REVISED -	
PLOT DATE = 12/8/2025	DATE - 2/25/2026	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

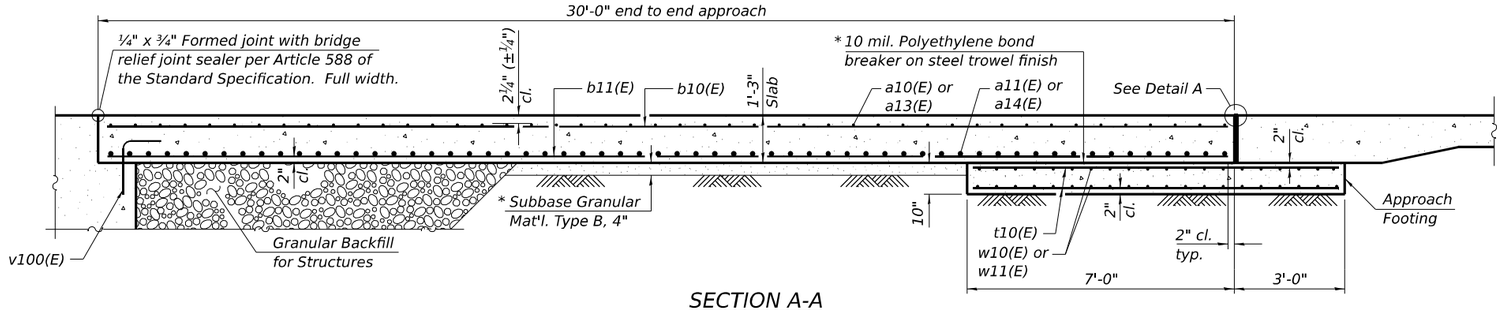
APPROACH SLAB PLAN
STRUCTURE NO. 002-0038

SCALE: | SHEET 14 OF 25 SHEETS | STA. | TO STA.

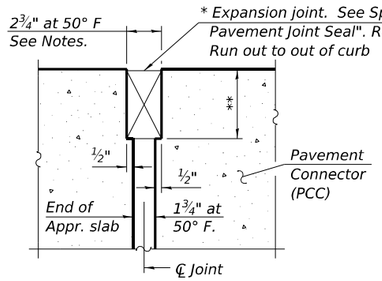
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
14	136-1B	ALEXANDER	82	46
		CONTRACT NO. 78791		
	ILLINOIS	FED. AID PROJECT		



INSIDE ELEVATION OF PARAPET AND CURB



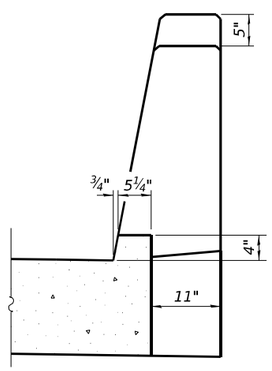
SECTION A-A



DETAIL A

* Cost included with Concrete Superstructure (Approach Slab).

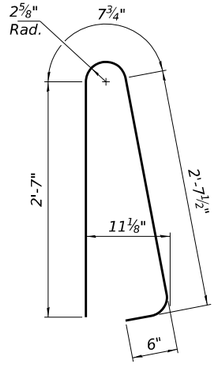
** Per manufacturer recommendations



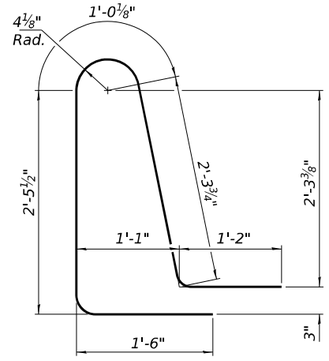
VIEW B-B

Notes:

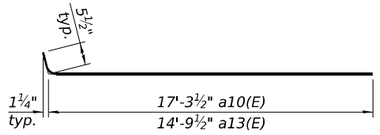
1. The joint opening shall be adjusted for temperature per Article 520.04 of the Standard Specifications. However, since this detail is for jointless structures, the length of bridge used to calculate the adjustment shall be equal to half the total bridge length plus the length of the bridge approach slab.
2. Parapet concrete shall be paid for as Concrete Superstructure.
3. Approach slab shall be paid for as Concrete Superstructure (Approach Slab).
4. Approach footing concrete shall be paid for as Concrete Structures.
5. The approach footing maximum applied service bearing pressure (Qmax) = 2.0 ksf.
6. Cost of excavation for approach footing included with Concrete Structures.
7. For Granular Backfill for Structures and drainage treatment details, see sheet 2 of 25.



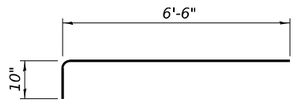
BAR d10(E)



BAR d11(E)



BAR a10(E) & a13(E)



BAR a12(E)

TWO APPROACHES BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a10(E)	92	#5	17'-9"	
a11(E)	120	#8	14'-11"	
a12(E)	92	#5	7'-4"	
a13(E)	92	#5	15'-3"	
a14(E)	120	#8	17'-5"	
b10(E)	102	#5	29'-8"	
b11(E)	160	#9	29'-8"	
b12(E)	16	#5	14'-8"	
b13(E)	4	#4	14'-8"	
d10(E)	92	#5	6'-5"	
d11(E)	92	#5	8'-6"	
e10(E)	40	#4	14'-8"	
t10(E)	140	#4	9'-8"	
w10(E)	80	#5	14'-11"	
w11(E)	80	#5	17'-5"	
Concrete Structures			Cu. Yd.	20.4
Concrete Superstructure			Cu. Yd.	7.8
Concrete Superstructure (Approach Slab)			Cu. Yd.	94.6
Reinforcement Bars, Epoxy Coated			Pound	39,240

FILE NAME: L:\IDOT\22006610-00\WO_14\78791\CADD Data\Bridge\CADD_Sheets\0020038-78791-015-Approach Slab Details.dgn

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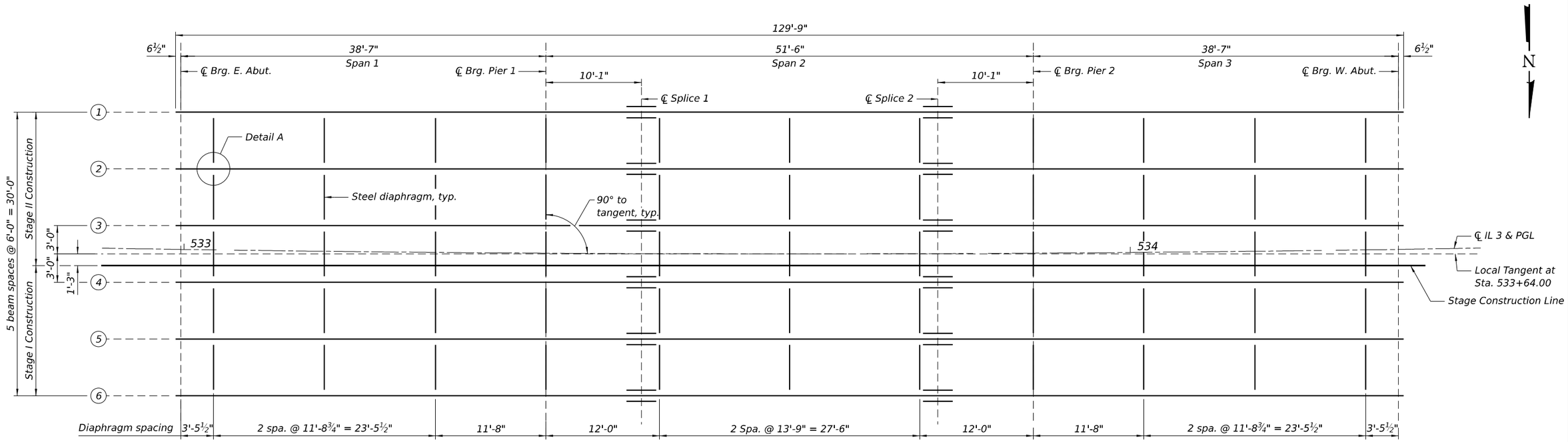
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

APPROACH SLAB DETAILS
STRUCTURE NO. 002-0038

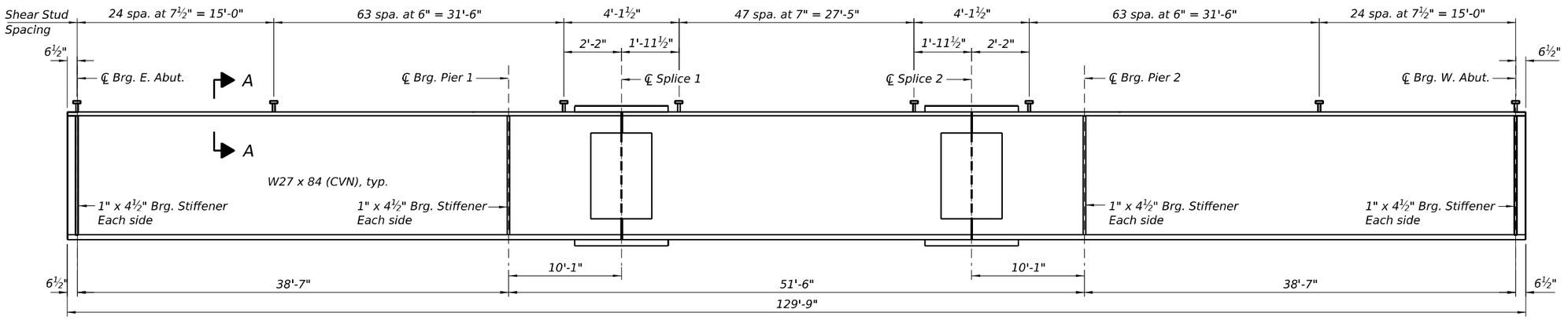
SCALE: | SHEET 15 OF 25 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
14	136-1B	ALEXANDER	82	47
		CONTRACT NO. 78791		
	ILLINOIS FED. AID PROJECT			

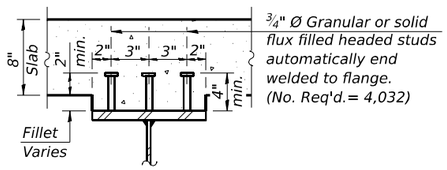


FRAMING PLAN

(All horizontal dimensions measured along the local tangent line)



BEAM ELEVATION



SECTION A-A

¾" Ø Granular or solid flux filled headed studs automatically end welded to flange. (No. Req'd.= 4,032)

TOP OF BEAM ELEVATIONS

(For fabrication only)

	Beam 1	Beam 2	Beam 3	Beam 4	Beam 5	Beam 6
℄ Brg. E. Abut.	335.28	335.40	335.49	335.48	335.39	335.28
℄ Brg. Pier 1	335.42	335.52	335.61	335.61	335.52	335.42
℄ Splice 1	335.45	335.56	335.65	335.65	335.56	335.45
℄ Splice 2	335.45	335.56	335.65	335.65	335.56	335.45
℄ Brg. Pier 2	335.42	335.52	335.61	335.61	335.52	335.42
℄ Brg. W. Abut.	335.28	335.40	335.49	335.48	335.39	335.28

Notes:

1. *All splice plates and bearing stiffeners shall be ASTM M270, Grade 50.*
2. *All diaphragms and connection plates shall be ASTM A709, Grade 36.*
3. *Load carrying components designated "CVN" shall conform to the Charpy-V-Notch Impact Energy Requirement, Zone 2.*
4. *All diaphragms shall be installed as steel is erected and secured with erection pins and bolts except as otherwise noted. Individual diaphragms at supports may be temporarily disconnected to install bearing anchor bolts.*
5. *See sheet 17 of 25 for Detail A.*

FILE NAME: L:\IDOT\22006610-00\WO_14\78791\CADD Data\Bridge\CADD_Sheets\0220038-78791-016-Framing Plan.dgn

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PLOT DATE = 12/10/2025	DATE - 2/25/2026	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FRAMING PLAN
STRUCTURE NO. 002-0038

SCALE: | SHEET 16 OF 25 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
14	136-1B	ALEXANDER	82	48
		CONTRACT NO. 78791		
	ILLINOIS	FED. AID PROJECT		

INTERIOR BEAM MOMENT TABLE				
		0.4 Sp. 1 or 0.6 Sp. 3	Pier 1 & 2	0.5 Sp. 2
I_s	(in⁴)	2,850	2,850	2,850
I_c (n)	(in⁴)	9,270	--	9,270
I_c (3n)	(in⁴)	7,037	--	7,037
I_c (cr)	(in⁴)	--	4,351	--
S_s	(in³)	213	213	213
S_c (n)	(in³)	344	--	344
S_c (3n)	(in³)	312	--	312
S_c (cr)	(in³)	--	260	--
S_x	(in³)	--	--	--
DC1	(k/')	0.72	0.72	0.72
M_{DC1}	('k)	68	151	88
DC2	(k/')	0.18	0.18	0.18
M_{DC2}	('k)	17	37	21
DW	(k/')	0.27	0.27	0.27
M_{DW}	('k)	25	56	33
LLDF		0.609	0.592	0.579
$M_{ℓ+IM}$	('k)	350	311	367
f_f (Strength I)	(ksi)	0.0	0.0	0.0
$M_u + \frac{1}{3} f_f S_x$	('k)	757	862	828
$\Phi_f M_n$	('k)	1,946	104	1,765
f_s DC1	(ksi)	3.8	8.5	5.0
f_s DC2	(ksi)	0.6	1.7	0.8
f_s DW	(ksi)	1.0	2.6	1.3
f_s ($f_ℓ$+IM)	(ksi)	12.2	14.4	12.8
f_f (Service II)	(ksi)	0.0	0.0	0.0
$f_s + f_f/2$ (Service II)	(ksi)	21.3	31.4	23.7
Service II Resistance	(ksi)	47.5	47.5	47.5
$f_s + f_f/3$ (Strength I)	(ksi)	28.4	41.7	31.5
$\Phi_f F_n$	(ksi)	--	--	--
V_f	(k)	19.1	40.1	18.0

INTERIOR BEAM REACTION TABLE			
		E. Abut. & W. Abut.	Piers 1 & 2
LLDF		0.671	0.671
OCF		1.00	--
R_{DC1}	(k)	17.7	36.3
R_{DC2}	(k)	21.4	8.8
R_{DW}	(k)	7.7	13.5
$R_ℓ$	(k)	59.0	67.9
R_{Im}	(k)	15.4	14.9
R_{Total} (Strength I)(Impact)	(k)	190.7	221.4
R_{Total} (Strength I)(No Impact)	(k)	163.7	195.4

Abutment reaction includes dead load and live load from approach slab and concrete diaphragm.

I_s , S_s : *Non-composite moment of inertia and section modulus of the steel section used for computing f_s (Total-Strength I, and Service II) due to non-composite dead loads (in.⁴ and in.³).*

I_c (n), S_c (n): *Composite moment of inertia and section modulus of the steel and deck based upon the modular ratio, "n", used for computing f_s (Total-Strength I, and Service II) in uncracked sections due to short-term composite live loads (in.⁴ and in.³).*

I_c (3n), S_c (3n): *Composite moment of inertia and section modulus of the steel and deck based upon 3 times the modular ratio, "3n", used for computing f_s (Total-Strength I, and Service II) in uncracked sections, due to long-term composite (superimposed) dead loads (in.⁴ and in.³).*

I_c (cr), S_c (cr): *Composite moment of inertia and section modulus of the steel and longitudinal deck reinforcement, used for computing f_s (Total-Strength I and Service II) in cracked sections, due to both short-term composite live loads and long-term composite (superimposed) dead loads (in.⁴ and in.³).*

S_x : *Section modulus about the major axis of a section to the controlling flange, tension or compression, taken as yield moment with respect to the controlling flange over the yield strength of the controlling flange (in.³).*

DC1: *Un-factored non-composite dead load (kips/ft.).*

M_{DC1}: *Un-factored moment due to non-composite dead load (kip-ft.).*

DC2: *Un-factored long-term composite (superimposed excluding future wearing surface) dead load (kips/ft.).*

M_{DC2}: *Un-factored moment due to long-term composite (superimposed excluding future wearing surface) dead load (kip-ft.).*

DW: *Un-factored long-term composite (superimposed future wearing surface only) dead load (kips/ft.).*

M_{DW} : *Un-factored moment due to long-term composite (superimposed future wearing surface only) dead load (kip-ft.).*

LLDF: *Live Load Distribution Factor for moment and shear computed according to Article 4.6.2.2 and further IDOT provisions.*

$M_{ℓ+IM}$: *Un-factored live load moment plus dynamic load allowance (impact) (kip-ft.).*

M_u : *Strength I load combination of factored design moments (kip-ft.). 1.25 (M_{DC1} + M_{DC2}) + 1.5 M_{DW} + 1.75 $M_{ℓ+IM}$*

f_f : *Factored calculated flange lateral bending stress as calculated using Article 6.10.1.6 and as further simplified by IDOT provisions (ksi).*

$\Phi_f M_n$: *Factored nominal flexural resistance of the section determined as specified in Article 6.10.7.1 or A6 as applicable (kip-ft.).*

f_s DC1: *Un-factored stress at edge of flange for controlling steel flange due to vertical non-composite dead loads as calculated below (ksi). M_{DC1} / S_s*

f_s DC2: *Un-factored stress at edge of flange for controlling steel flange due to vertical composite dead loads as calculated below (ksi). M_{DC2} / S_c (3n) or M_{DC2} / S_c (cr) as applicable.*

f_s DW: *Un-factored stress at edge of flange for controlling steel flange due to vertical composite future wearing surface loads as calculated below (ksi). M_{DW} / S_c (3n) or M_{DW} / S_c (cr) as applicable.*

f_s ($f_ℓ$ + IM): *Un-factored stress at edge of flange for controlling steel flange due to vertical composite live load plus impact loads as calculated below (ksi). $M_{ℓ+IM}$ / S_c (n) or $M_{ℓ+IM}$ / S_c (cr) as applicable.*

$f_s + f_f/2$ (Service II): *Sum of stresses as computed below (ksi). f_s DC1 + f_s DC2 + f_s DW + 1.3 f_s ($f_ℓ$ + IM) + f_f/2*

Service II Resistance: *Composite (0.95$R_h F_{yf}$) or noncomposite (0.80$R_h F_{yf}$) stress capacity according to Article 6.10.4.2 (ksi).*

$f_s + f_f/3$ (Strength I): *Sum of stresses as computed below on non-compact sections (ksi). 1.25 (f_s DC1 + f_s DC2) + 1.5 f_s DW + 1.75 f_s ($f_ℓ$ + IM) + f_f/3*

$\Phi_f F_n$: *Factored nominal flexural resistance of the section as specified in Article 6.10.7.2 or 6.10.8 as applicable (ksi).*

V_f: *Maximum factored shear range in span computed according to Article 6.10.10.*

OCF: *Obtuse Correction Factor according to Article 4.6.2.2.3c or as further simplified by IDOT provisions.*

R_{DC1}: *Un-factored reaction due to non-composite dead load (kip).*

R_{DC2}: *Un-factored reaction due to long-term composite (superimposed excluding future wearing surface) dead load (kip).*

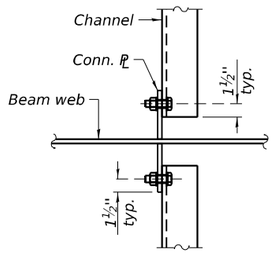
R_{DW} : *Un-factored reaction due to long-term composite (superimposed future wearing surface only) dead load (kip).*

$R_ℓ$: *Un-factored live load reaction (kip).*

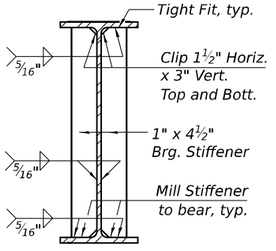
R_{IM} : *Un-factored dynamic load allowance (impact) (kip).*

R_{Total} (Strength I)(Impact): *Strength I load combination of factored design reactions (kip). 1.25 (R_{DC1} + R_{DC2}) + 1.5R_{DW} + 1.75 ($R_ℓ$ + R_{IM})*

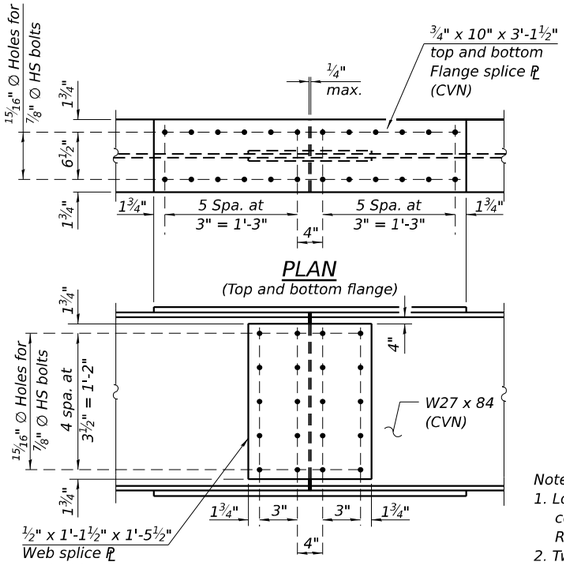
R_{Total} (Strength I)(No Impact): *Strength I load combination of factored design reactions, not including dynamic load allowance (Impact) (kip). 1.25 (R_{DC1} + R_{DC2}) + 1.5R_{DW} + 1.75 ($R_ℓ$)*



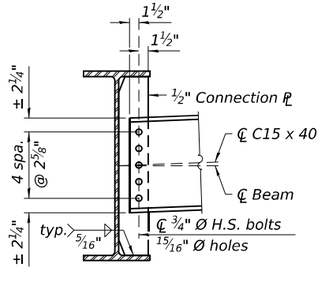
DETAIL A



BEARING STIFFENER AT PIER

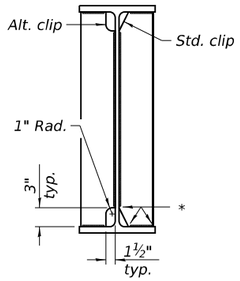


ELEVATION



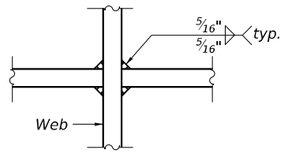
INTERIOR DIAPHRAGM

(55 required)

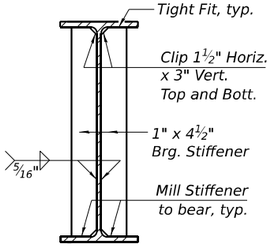


WELD LIMITS AND CLIP DETAILS

** Stop welds ¼" (±⅛") from edges as shown. Typical.*



WEB WELD DETAIL



BEARING STIFFENER AT ABUTMENT

SPLICE DETAIL

(12 Required)

Notes:

1. *Load carrying components designated "CVN" shall conform to the Charpy-V-Notch Impact Energy Requirements, Zone 2.*
2. *Two hardened washers required for each set of oversized holes.*
3. *Alternate channels of equal depth and larger weight are permitted to facilitate material acquisition. Alternate channels, if utilized, shall be provided at no additional cost to the Department.*
4. *All splice bolts shall be ⅞" ASTM A325, and bolt holes shall be 15/16" Ø.*

FILE NAME: ...\IDOT\22006610-00\WO_14\78791\CADD Data\BridgeCADD_Sheets\0020038-78791-017-Structural Steel Details.dgn

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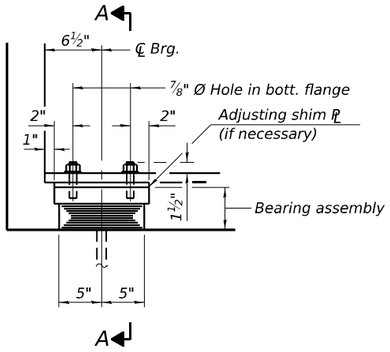
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

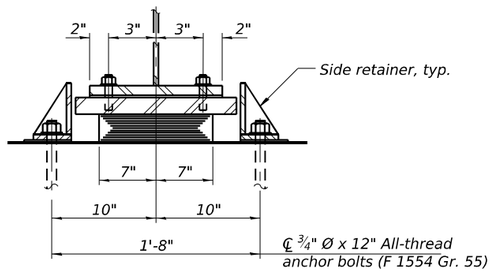
STRUCTURAL STEEL DETAILS
STRUCTURE NO. 002-0038

SCALE: | SHEET 17 OF 25 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
14	136-1B	ALEXANDER	82	49
		CONTRACT NO. 78791		
	ILLINOIS FED. AID PROJECT			

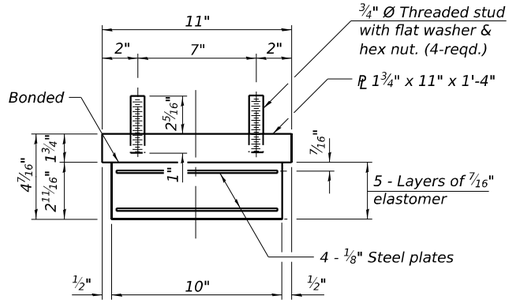


ELEVATION AT E. ABUT. & W. ABUT.



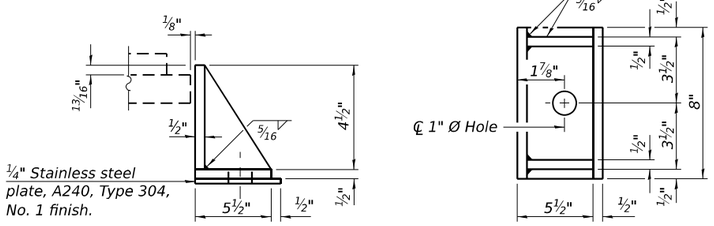
SECTION A-A

TYPE I ELASTOMERIC EXP. BRG.
(12 required)



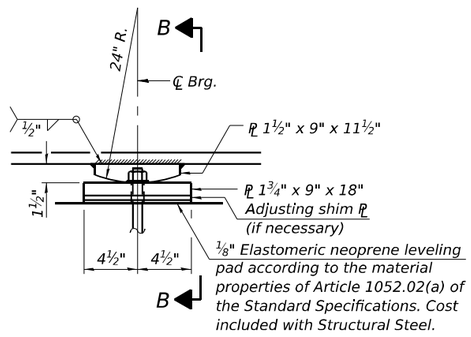
BEARING ASSEMBLY

Note:
Shim plates shall not be placed under bearing assembly.

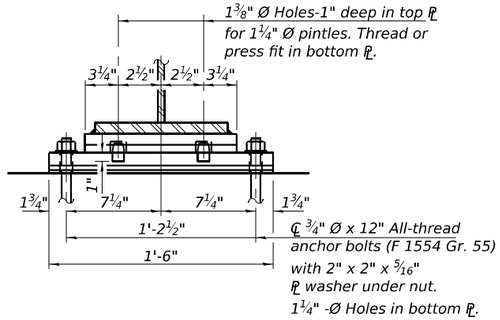


SIDE RETAINER

Equivalent rolled angle with stiffeners will be allowed in lieu of welded plates.

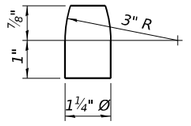


ELEVATION AT PIER 1 & PIER 2



SECTION B-B

FIXED BEARING
(12 required)



PINTLE

BILL OF MATERIAL

Item	Unit	Total
Elastomeric Bearing Assembly Type I	Each	12
Anchor Bolts, ¾"	Each	48

Notes:
1. Side retainers and stainless steel plates shall be included in the cost of Elastomeric Bearing Assembly, Type I.
2. Anchor bolts and side retainers at all supports shall be installed as each member is erected unless an equivalent temporary means of lateral restraint is used.
3. The structural steel plates of the Bearing Assembly shall conform to the requirements of AASHTO M270 Grade 50.
4. Two 1/8 in. adjusting shims shall be provided for each bearing in addition to all other plates or shims and placed as shown on bearing details.
5. All separate bearing plates, side retainers, anchor bolts, nuts, washers and pintles shall be galvanized according AASHTO M111 or M232 as applicable.
6. The anchor bolt sizes and grades shown constitute a calculated seismic structural fuse. Substitution of higher diameter and/or grade anchor bolts will not be allowed.

USER NAME = dcochran	DESIGNED - IPF	REVISED -	
	DRAWN - IPF	REVISED -	
	CHECKED - DAC/DH	REVISED -	
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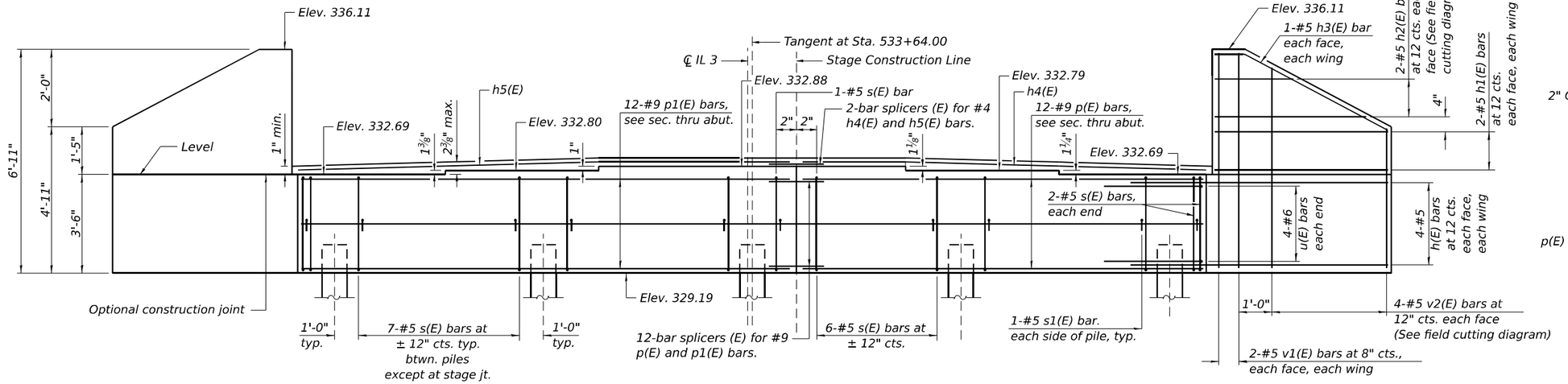
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BEARING DETAILS
STRUCTURE NO. 002-0038

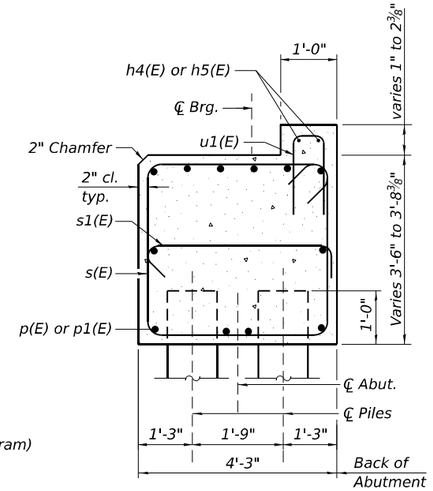
SCALE: | SHEET 18 OF 25 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
14	136-1B	ALEXANDER	82	50
		CONTRACT NO. 78791		
		ILLINOIS	FED. AID PROJECT	

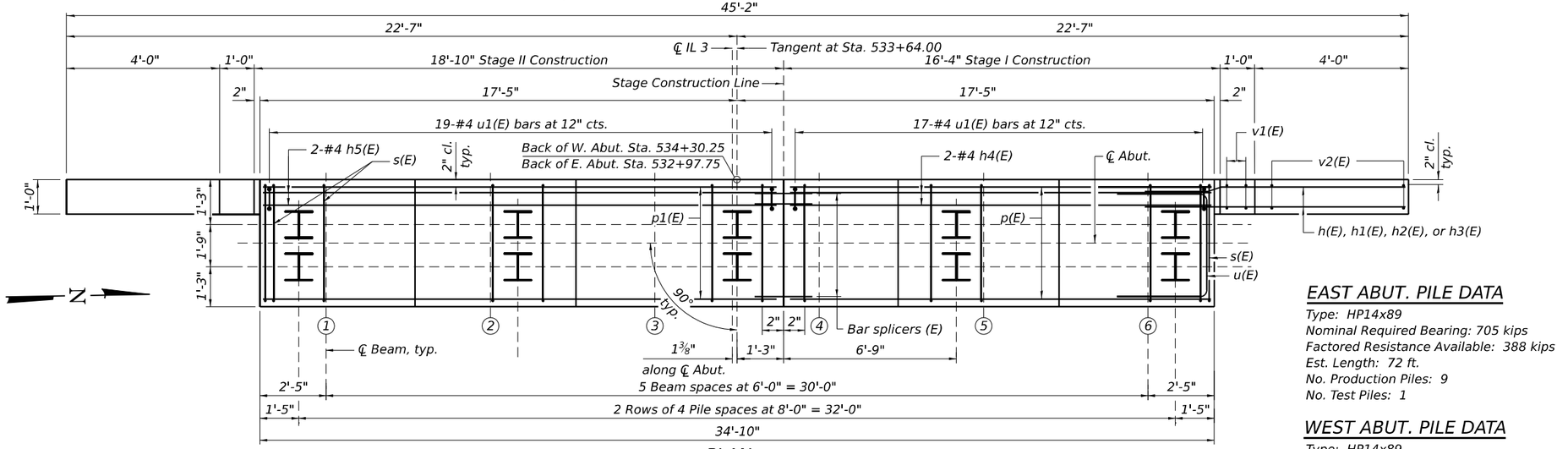


ELEVATION

(West abutment shown, east abutment similar by rotation)



SEC. THRU ABUT.



PLAN

(West abutment shown, east abutment similar by rotation)

BILL OF MATERIAL
TWO ABUTMENTS

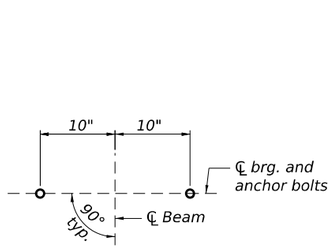
Bar	No.	Size	Length	Shape
h(E)	32	#5	7'-11"	
h1(E)	16	#5	4'-8"	
h2(E)	8	#5	5'-9"	
h3(E)	8	#5	5'-2"	
h4(E)	4	#4	15'-10"	
h5(E)	4	#4	18'-4"	
p(E)	24	#9	15'-10"	
p1(E)	24	#9	18'-4"	
s(E)	64	#5	15'-1"	
s1(E)	20	#5	4'-11"	
u(E)	16	#6	9'-5"	
u1(E)	72	#4	5'-4"	
v1(E)	8	#5	6'-7"	
v2(E)	16	#5	10'-9"	
Structure Excavation		Cu. Yd.	230	
Concrete Structures		Cu. Yd.	44.4	
Reinforcement Bars, Epoxy Coated		Pound	5,140	
Furnishing Steel Piles HP14x89		Foot	1,287	
Driving Piles		Foot	1,287	
Test Pile Steel HP14x89		Each	2	

EAST ABUT. PILE DATA

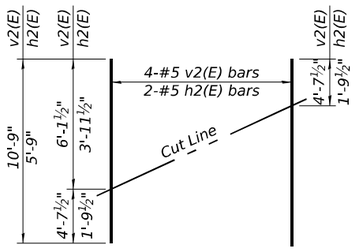
Type: HP14x89
Nominal Required Bearing: 705 kips
Factored Resistance Available: 388 kips
Est. Length: 72 ft.
No. Production Piles: 9
No. Test Piles: 1

WEST ABUT. PILE DATA

Type: HP14x89
Nominal Required Bearing: 434 kips
Factored Resistance Available: 388 kips
Est. Length: 71 ft.
No. Production Piles: 9
No. Test Piles: 1

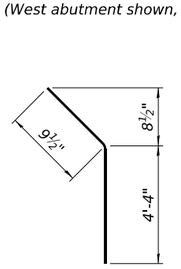


ANCHOR BOLT LAYOUT

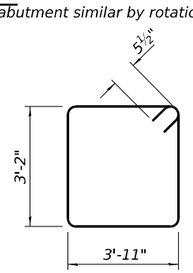


FIELD CUTTING DIAGRAM

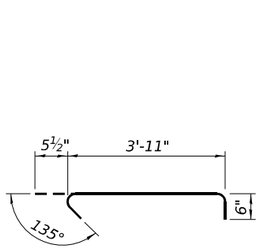
Order h2(E) and v2(E) full length. Cut as shown and use remainder of bars in opposite wing.



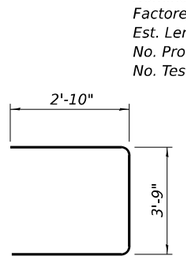
BAR h3(E)



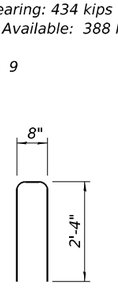
BAR s(E)



BAR s1(E)



BAR u(E)



BAR u1(E)

Notes:
1. *Pour steps monolithically with cap.*
2. *For details of piles see sheet 21 of 25.*
3. *Space reinforcement in cap to miss anchor bolts.*

FILE NAME: L:\IDOT\22006610-00\WO_14\78791\CADD Data\Bridge\CADD_Sheets\00200038-78791-019-Abutment Details.dgn

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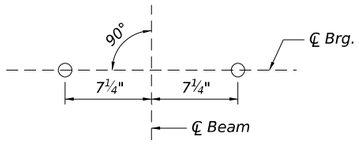
PLOT DATE = 10/17/2025	DATE - 2/25/2026	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

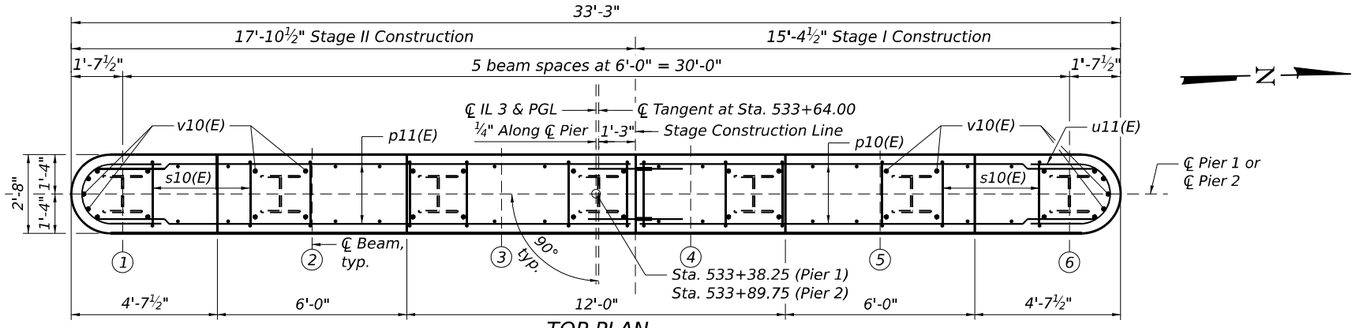
ABUTMENT DETAILS
STRUCTURE NO. 002-0038

SCALE: | SHEET 19 OF 25 SHEETS | STA. | TO STA.

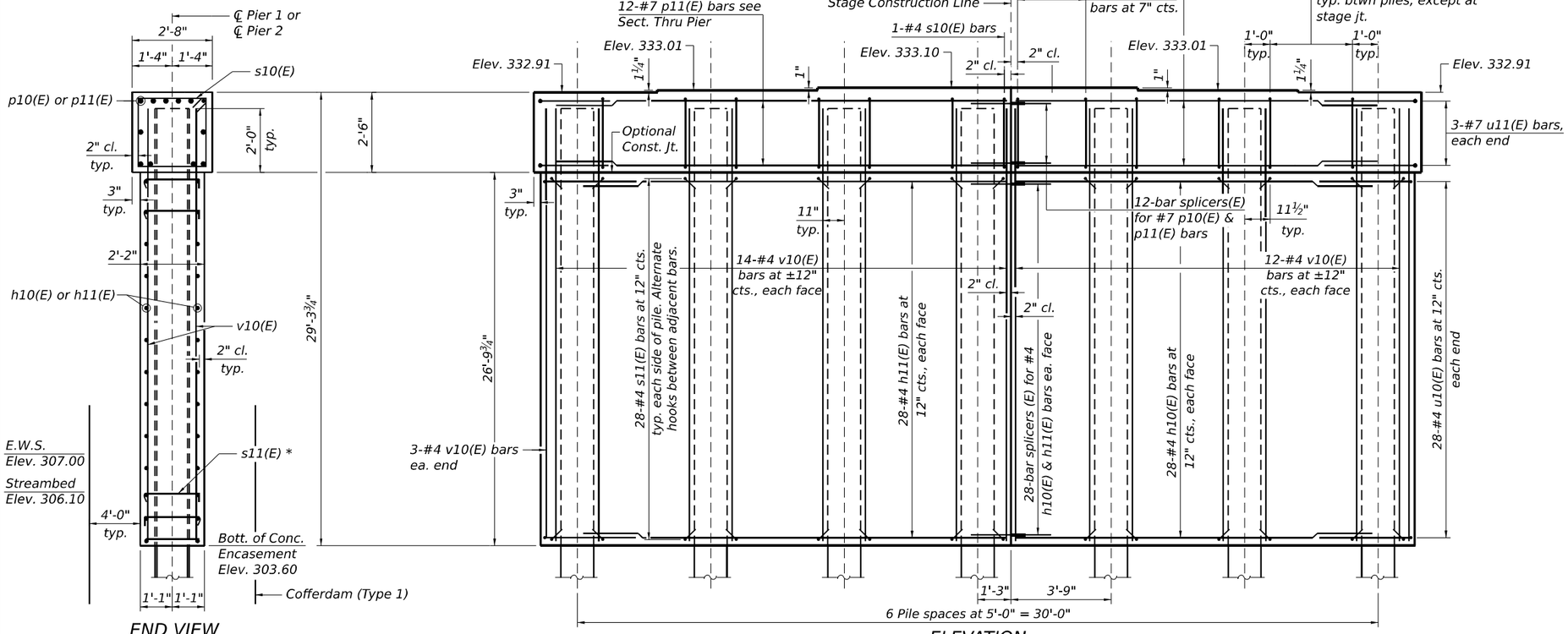
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
14	136-1B	ALEXANDER	82	51
		CONTRACT NO. 78791		
	ILLINOIS FED. AID PROJECT			



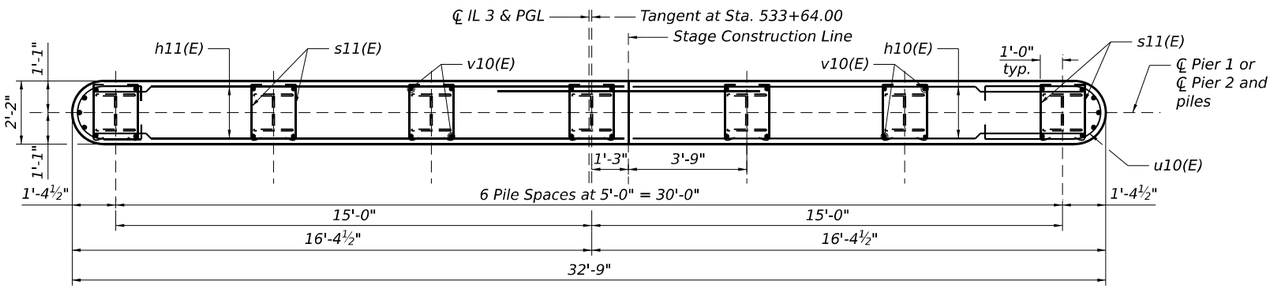
ANCHOR BOLT LAYOUT



TOP PLAN



ELEVATION
(Looking West)



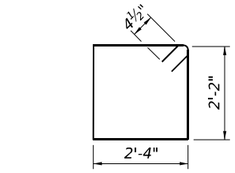
WALL PLAN VIEW

PIER 1 PILE DATA

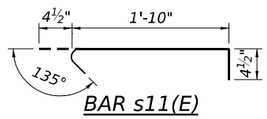
Type: HP14x89
Nominal Required Bearing: 705 kips
Factored Resistance Available: 388 kips
Est. Length: 77 ft.
No. Production Piles: 6
No. Test Piles: 1

PIER 2 PILE DATA

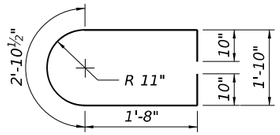
Type: HP14x89
Nominal Required Bearing: 680 kips
Factored Resistance Available: 388 kips
Est. Length: 76 ft.
No. Production Piles: 6
No. Test Piles: 1



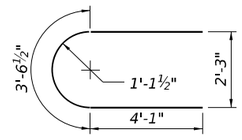
BAR s10(E)



BAR s11(E)



BAR u10(E)



BAR u11(E)

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h10(E)	112	#4	13'-10"	——
h11(E)	112	#4	16'-4"	——
p10(E)	24	#7	13'-10"	——
p11(E)	24	#7	16'-4"	——
s10(E)	48	#4	9'-9"	□
s11(E)	784	#4	2'-7"	⌐¬
u10(E)	112	#4	7'-11"	⊐
u11(E)	12	#7	11'-9"	⊐
v10(E)	116	#4	28'-7"	——
Cofferdam Excavation	Cu. Yd.		329	
Cofferdam (Type 1) (Location - 1)	Each		1	
Cofferdam (Type 1) (Location - 2)	Each		1	
Concrete Structures	Cu. Yd.		155.7	
Reinforcement Bars, Epoxy Coated	Pound		8,500	
Furnishing Steel Piles HP14x89	Foot		918	
Driving Piles	Foot		918	
Test Pile Steel HP14x89	Each		2	

Notes:
1. *Space reinforcement in cap to miss anchor bolts.*
2. *Pour steps monolithically with cap.*
3. *For details of piles see sheet 21 of 25.*

FILE NAME: L:\IDOT\220086\10-00\WO_14\78791\CADD Data\Bridge\CADD_Sheets\0020038-78791-r20-Pier Details.dgn

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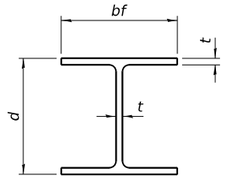
PLOT DATE = 10/21/2025	DATE - 2/25/2026	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PIER DETAILS
STRUCTURE NO. 002-0038

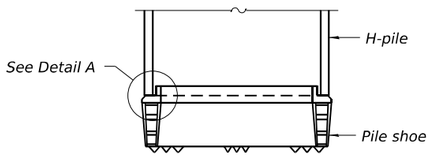
SCALE: | SHEET 20 OF 25 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
14	136-1B	ALEXANDER	82	52
		CONTRACT NO. 78791		
		ILLINOIS	FED. AID PROJECT	

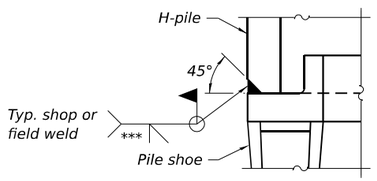


STEEL PILE TABLE

Designation	Depth d	Flange width bf	Web and Flange thickness t	Encasement diameter A
HP 18x181	18	18	1	36"
x157	17¾"	17⅞"	⅞"	36"
x135	17½"	17¾"	¾"	36"
HP 16x183	16½"	16½"	1⅛"	36"
x162	16¼"	16⅛"	1"	36"
x141	16	16	⅞"	36"
x121	15¾"	15⅞"	¾"	36"
HP 14x117	14¼"	14⅞"	13/16"	30"
x102	14"	14¾"	11/16"	30"
x89	13⅞"	14¾"	⅝"	30"
x73	13⅝"	14⅝"	½"	30"
HP 12x84	12¼"	12¼"	11/16"	24"
x74	12⅛"	12¼"	⅝"	24"
x63	12"	12⅛"	½"	24"
x53	11¾"	12"	7/16"	24"
HP 10x57	10"	10¼"	9/16"	24"
x42	9¾"	10⅛"	7/16"	24"
HP 8x36	8"	8⅛"	7/16"	18"



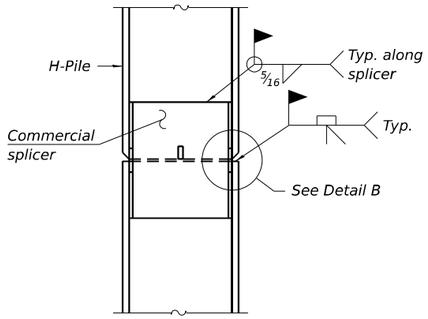
ELEVATION



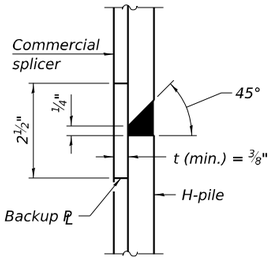
DETAIL A

SHOE ATTACHMENT

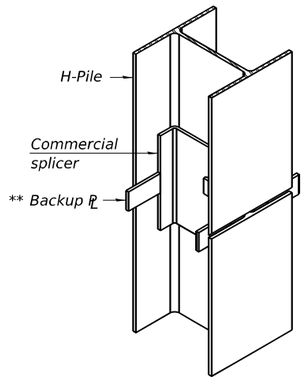
Note:
The steel H-piles shall be according to AASHTO M270 Grade 50.



ELEVATION

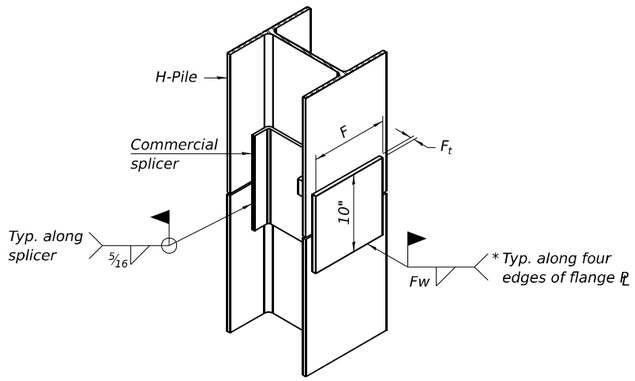


DETAIL B



ISOMETRIC VIEW

WELDED COMMERCIAL SPLICE



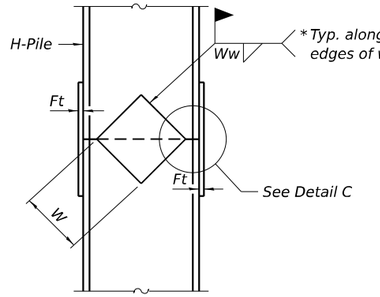
ISOMETRIC VIEW

WELDED COMMERCIAL SPLICE ALTERNATE

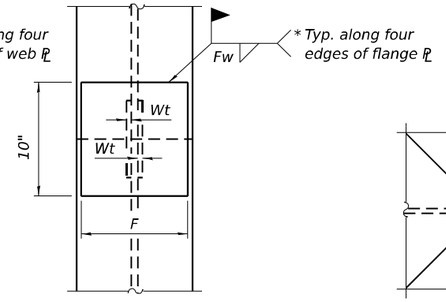
* Interrupt welds ¼" from end of web and/or each flange.

** Remove portions of backup PL's that extend outside the flanges.

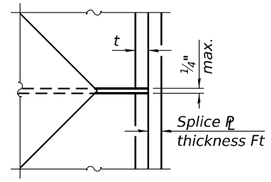
*** Weld size per pile shoe manufacturer (5/16" min.).



ELEVATION



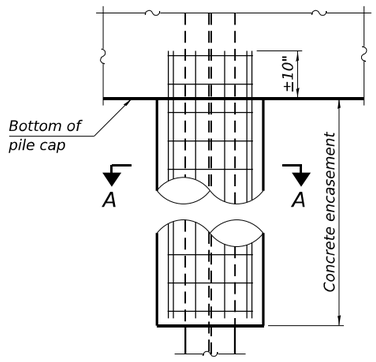
END VIEW



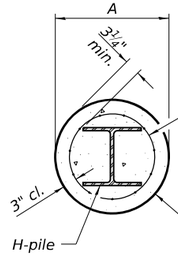
DETAIL C

Designation	F	Ft	Fw	W	Wt	Ww
HP 18x181	15½"	1½"	1"	9½"	⅞"	¾"
x157	15¼"	1¼"	1"	9½"	⅞"	¾"
x135	15¼"	1¼"	1"	9½"	⅞"	¾"
HP 16x183	13¾"	1½"	1"	8¼"	⅞"	¾"
x162	13½"	1½"	1"	8¼"	¾"	⅝"
x141	13½"	1¼"	⅞"	8¼"	¾"	⅝"
x121	13½"	1¼"	⅞"	8¼"	¾"	⅝"
HP 14x117	12½"	1¼"	⅞"	7¾"	⅝"	½"
x102	12½"	1"	¾"	7¾"	⅝"	½"
x89	12½"	⅞"	11/16"	7¾"	⅝"	½"
x73	12½"	¾"	9/16"	7¾"	⅝"	½"
HP 12x84	10"	1"	11/16"	6½"	⅝"	½"
x74	10"	⅞"	11/16"	6½"	⅝"	½"
x63	10"	¾"	½"	6½"	½"	⅜"
x53	10"	¾"	½"	6½"	½"	⅜"
HP 10x57	8"	⅞"	9/16"	5¼"	½"	⅜"
x42	8"	¾"	9/16"	5¼"	½"	⅜"
HP 8x36	6¾"	⅝"	7/16"	4"	½"	⅜"

WELDED PLATE FIELD SPLICE



ELEVATION



SECTION A-A

Welded wire fabric 6 x 6- W4.0 x W4.0 weighing 58#/100 sq. ft. Bend as required to fit into wall. Reinforcement for encasements at abutments is included with Concrete Encasement according to Article 503.13 of the Standard Specifications.

Forms for encasement may be omitted when soil conditions permit.

INDIVIDUAL PILE CONCRETE ENCASEMENT
(when specified)

F-HP 4-4-2025

FILE NAME: L:\IDOT\22006610-00\WO_14178791\CADD Data\Bridge\CADD_Sheets\0020038-78791-021+HP Pile Details.dgn

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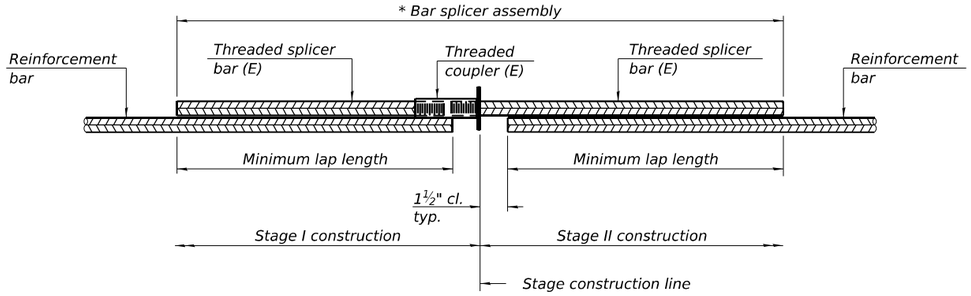
	CHECKED - DAC/DH	REVISED -	
PLOT DATE = 9/23/2025	DATE - 2/25/2026	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

HP PILE DETAILS
STRUCTURE NO. 002-0038

SCALE: | SHEET 21 OF 25 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
14	136-1B	ALEXANDER	82	53
		CONTRACT NO. 78791		
	ILLINOIS	FED. AID PROJECT		



STANDARD BAR SPLICER ASSEMBLY PLAN

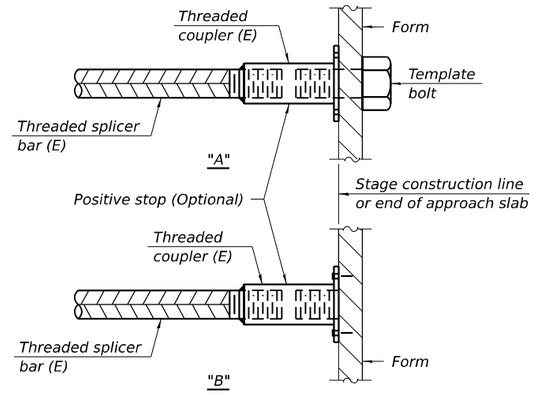
Only bar splicer assemblies as presented on the approved QPL list may be used.

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

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

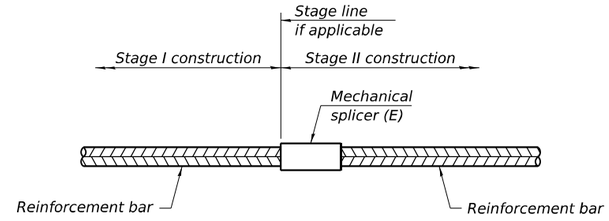
Location	Bar size	No. assemblies required	Minimum lap length
Bridge Deck	#5	383	3'-10"
Diaphragm - m10(E) and m11(E) bars	#6	8	3'-11"
Diaphragm - m18(E) and m19(E) bars	#6	8	* 3'-11"
Diaphragm	#4	4	2'-2"
Appr. Slab Top	#5	92	2'-6"
Appr. Slab Bot.	#8	120	5'-2"
Appr. Slab Footing	#5	80	2'-0"
Abutment Caps	#9	24	7'-9"
Abutment Caps	#4	4	2'-2"
Pier Walls	#4	112	2'-2"
Pier Caps	#7	24	4'-1"

* Within Stage II Construction only, bar length into Stage I construction shall be 1'-7".



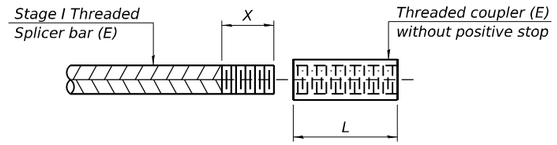
INSTALLATION AND SETTING METHODS

"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



THREADING OF ASSEMBLIES

The threaded length "X" shall be no more than L/2. The bar should be tightened until 0-1 thread(s) is/are exposed.

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 4-4-2025

FILE NAME: L:\IDOT\22006610-<0\WO_14\78791\CADD Data\Bridge\CADD_Sheets\0020038-78791-022-Bar Splicer Details.dgn

CMT License No. 184-000613

USER NAME = lformell	DESIGNED - IPF	REVISED -	
	DRAWN - IPF	REVISED -	
	CHECKED - DAC/DH	REVISED -	
PLOT DATE = 10/2/2025	DATE - 2/25/2026	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BAR SPLICER AND MECHANICAL SPLICER DETAILS
STRUCTURE NO. 002-0038

SCALE: | SHEET 22 OF 25 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
14	136-1B	ALEXANDER	82	54
		CONTRACT NO. 78791		
	ILLINOIS	FED. AID PROJECT		

Illinois Department of Transportation
Division of Highways
District 9

SOIL BORING LOG

Date 5/9/19

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

SECTION LOCATION Near E. Abut 1/2 mi. W of IL 127, SEC. 12, TWP. 16S, RNG. 2W, PM

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

STRUCT. NO. 002-0012
Station 533+64

BORING NO. 1-S
Station 532+78
Offset 7.0ft LT
Ground Surface Elev. 335.0 ft

Surface Water Elev. 327.7 ft
Stream Bed Elev. 306.6 ft

Groundwater Elev.:
▽ First Encounter 316.5 ft
▼ Upon Completion 315.0 ft
▼ After ____ Hrs. ____ ft

DEPTH (ft)	BLOWS	UCS Qu (tsf)	MOIST (%)	Description
				Cored Pavement, 5" HMA over 10" CONCRETE
333.75				
				Brown, Moist CLAY with f. rounded GRAVEL
331.50				
	1			Stiff Grey and Brown, Moist SILTY CLAY with f. rounded GRAVEL
-5	4 4	1.9 B	20	
329.00				
	1			Stiff Grey and Brown, Moist SILTY LOAM
	3 4	1.5 B	22	
326.50				
	1			M. Stiff Grey, Moist SILTY CLAY
	1 2	0.7 B	23	
-10				
324.00				
	1			V. Stiff Brown, Moist SILTY CLAY LOAM with f. Brown Rounded GRAVEL
	6 8	2.2 B	21	
321.50				
	1			Stiff Brown, Moist SILTY CLAY LOAM with f. Brown Rounded GRAVEL
	6 6	1.3 B	25	
-15				
319.00				
	1			Stiff Grey, Moist CLAY
	3 5	1.6 B	28	
▽ 316.50				
	1			Stiff Grey, V. Moist CLAY with ORGANICS (Note 1)
	2 3	1.1 S	39	
-20 ▼				
314.00				
	1			Stiff Grey, V. Moist CLAY with ORGANICS (Note 1)
	3 5	1.9 S	39	
311.50				
	1			M. Stiff Brownish Grey, Moist CLAY (Note 1)
	2 3	1.9 B	37	
-25				
309.00				
	WOH			M. Stiff Brownish Grey with specks of Brown, Moist CLAY (Note 1)
	1 2	0.9 B	31	
306.50				
	WOH			V. Soft Grey, Moist LOAM 45% f. to m. Sand, 37% Silt, 18% Clay, LL = 36, PI = 16 (Lab 32)
	WOH WOH	0.2 B	28	
-30				
304.00				
	WOH			V. Loose Grey, V. Moist LOAM 47% f. to m. Sand, 40% Silt, 13% Clay, V. Low Plasticity (Lab 33)
	1 3		31	
301.50				
	WOH			V. Loose Grey, V. Moist SANDY LOAM 1% c. Sand, 76% f. to m. Sand, 17% Silt, 6% Clay, Non-plastic (Lab 34)
	WOH WOH		27	
-35				
299.00				
	2			M. Dense Grey, Moist SAND 15% c. Sand, 81% f. to m. Sand, 3% Silt, 2% Clay, Non-plastic (Lab 35)
	7 8		19	
296.50				
	7			
	7 12		16	
-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\BORING LOGS USING GINT\STATE STRUCTURES\ALEXANDER\002-0012 IL 3 OVER DRAINAGE DITCH 2019.GPJ Data Template D6TEMPLT.GDT Date Printed 1/2/20
Latitude 37-07-54.12 Longitude -89-17-02.14 Datum NAD83 Job Number

Illinois Department of Transportation
Division of Highways
District 9

SOIL BORING LOG

Date 5/9/19

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

SECTION LOCATION Near E. Abut 1/2 mi. W of IL 127, SEC. 12, TWP. 16S, RNG. 2W, PM

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

STRUCT. NO. 002-0012
Station 533+64

BORING NO. 1-S
Station 532+78
Offset 7.0ft LT
Ground Surface Elev. 335.0 ft

Surface Water Elev. 327.7 ft
Stream Bed Elev. 306.6 ft

Groundwater Elev.:
▽ First Encounter 316.5 ft
▼ Upon Completion 315.0 ft
▼ After ____ Hrs. ____ ft

DEPTH (ft)	BLOWS	UCS Qu (tsf)	MOIST (%)	Description
				M. Dense Grey, Moist SAND with f. GRAVEL 31% c. Sand and f. Gravel, 51% f. to m. Sand, 12% Silt, 6% Clay, Non-plastic (Lab 36) (Note 2) *(continued)*
291.00				
	5			M. Dense Grey, Moist m. to c. SAND with f. GRAVEL (Note 2)
-45	10 11		15	
	6			
-50	8 10		10	
	5			
-55	6 12			
	5			
-60	7			
				M. Dense Grey, Moist m. to c. SAND with f. GRAVEL (Note 2) *(continued)*
	12			
	6			
-65	10 15			
266.00				
	100/9"			V. Stiff Brownish Grey, Dry to Moist SILTY LOAM
-70		2.5 E	27	
261.00				
	8			V. Stiff Grey, Moist CLAY with CHERT
259.90	100/4"	3.4 S	23	
-75				Borehole continued with rock coring
				Note 1: Not Liquefiable, PI >= 12 based on visual ID and historical data Note 2: Not Liquefiable, N60 > 25
				Bottom of hole @ 85.1 ft Elevation referenced to BM 002-0012, Chiseled Square on NW Wingwall of SN 002-0012; EL. 335.63
				To convert "N" values to "N60", multiply by 1.5
-80				

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\BORING LOGS USING GINT\STATE STRUCTURES\ALEXANDER\002-0012 IL 3 OVER DRAINAGE DITCH 2019.GPJ Data Template D6TEMPLT.GDT Date Printed 1/2/20
Latitude 37-07-54.12 Longitude -89-17-02.14 Datum NAD83 Job Number

FILE NAME: L:\IDOT\2200\06610-00\WO_14\78791\CADD Data\Bridge\CADD Sheets\0020038-78791-023-Soil Boring - I.dgn

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License No. 184-000613

USER NAME = moverbey	DESIGNED - IPF	REVISED -	
	DRAWN - IPF	REVISED -	
	CHECKED - DAC/DH	REVISED -	
PLOT DATE = 9/30/2025	DATE - 2/25/2026	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOIL BORING AND ROCK CORE LOG - I
STRUCTURE NO. 002-0038

SCALE: SHEET 23 OF 25 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
14	136-1B	ALEXANDER	82	55
		CONTRACT NO. 78791		
	ILLINOIS FED. AID PROJECT			

Illinois Department of Transportation
Division of Highways
District 9

ROCK CORE LOG

Date 5/9/19

ROUTE IL 3 **DESCRIPTION** Structure over drainage ditch Near E. Abut. **LOGGED BY** L. Estel

SECTION _____ **LOCATION** 1/2 mi. W of IL 127, **SEC.** 12, **TWP.** 16S, **RNG.** 2W, **PM**

COUNTY Alexander **CORING METHOD** Conventional rotary with water

STRUCT. NO. 002-0012
Station 533+64

CORING BARREL TYPE & SIZE NV3 5FT NWJ

Core Diameter 2 in
Top of Rock Elev. 259.90 ft
Begin Core Elev. 259.90 ft

BORING NO. 1-S
Station 532+78
Offset 7.0ft LT
Ground Surface Elev. 335.0 ft

		DEPTH (ft)	CORE (#)	RECOVERY (%)	R.Q.D. (%)	CORE TIME (min/ft)	STRENGTH (tsf)
Grey CLAY SHALE, Dry, V. Fine Grained, Hard Field Hardness	259.90		1	94	8	4	696
White with Light Brown LIMESTONE, Dry, V. Fine Grained, Low Hardness Field Hardness	259.30	-80					
			2	46	0	5	
White with streaks of Light Brown CHERT, Dry, V. Fined Grained, Hard Field Hardness	252.50						
	249.90	-85					
		-90					
		-95					

Color pictures of the cores Yes, attached
Cores will be stored for examination until Const. complete
The "Strength" column represents the uniaxial compressive strength of the core sample (ASTM D-2938)
RQD is the ratio of the total length of sound core specimens >4" to total length of core run

BBS, form 138 (Rev. 8-99)

ROCK CORE 002-0012 IL 3 OVER DRAINAGE DITCH 2019.GPJ D6TEMPLT.GDT 1/2/20

FILE NAME: L:\IDOT\22006610-00\WO_14\78791\CADD Data\Bridge\CADD_Sheets\00220038-78791-024-Soil Boring - II.dgn

CMT
License No. 184-000613

USER NAME = dcochran	DESIGNED - IPF	REVISED -	
	DRAWN - IPF	REVISED -	
	CHECKED - DAC/DH	REVISED -	
PLOT DATE = 9/23/2025	DATE - 2/25/2026	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOIL BORING AND ROCK CORE LOG - II
STRUCTURE NO. 002-0038

SCALE: | SHEET 24 OF 25 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
14	136-1B	ALEXANDER	82	56
		CONTRACT NO. 78791		
	ILLINOIS	FED. AID PROJECT		

File Name S:\MATERIALS GEOTECHNICAL UNIT\BORING LOGS USING GINT\STATE STRUCTURES\ALEXANDER\002-0012 IL 3 OVER DRAINAGE DITCH 2019.GPJ Data Template D6TEMPLT.GDT Date Printed 1/2/20
Latitude 37-07-53.77 Longitude 89-17-00.54 Datum NAD83 Job Number

Illinois Department of Transportation
Division of Highways
District 9

SOIL BORING LOG

Page 1 of 2

Date 10/14/19

ROUTE IL 3 **DESCRIPTION** Structure over drainage ditch **LOGGED BY** L. Estel

Near W. Abut.

SECTION ____ **LOCATION** 1/2 mi. W of IL 127, **SEC.** 12, **TWP.** 16S, **RNG.** 2W, **PM**

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

STRUCT. NO. 002-0012
Station 533+64

BORING NO. 2-S
Station 534+58
Offset 7.0ft RT
Ground Surface Elev. 335.0 ft

Surface Water Elev. 310.4 ft
Stream Bed Elev. 306.6 ft

Groundwater Elev.:
▽ **First Encounter** 300.5 ft
▼ **Upon Completion** ____ ft
▼ **After** ____ **Hrs.** ____ ft

	Elev.	DEPTH (ft)	BLOWS	UCS Qu (tsf)	MOIST (%)
Cored Pavement, 2" HMA over 11" CONCRETE					
	333.92				
Stiff Brown, Moist SILTY CLAY LOAM with GRAVEL			5 5 5	1.4 S	15
	331.50				
Stiff Greyish Brown, Moist SILTY CLAY		-5	1 4 4	1.6 B	23
			1 3 3	1.1 B	21
	326.50				
M. Stiff Brown with specks of Grey, Moist SILTY CLAY LOAM		-10	1 3 5	0.8 B	24
	324.00				
Hard Brown, Moist SILTY CLAY LOAM			1 4 6	3.1 B	17
	321.50				
Stiff Brown and mottled Grey, Moist SILTY CLAY		-15	1 5 5	1.7 B	37
	319.00				
Stiff Grey, Moist CLAY			1 3 4	1.5 B	29
	316.50				
V. Stiff Brown and mottled Grey, Moist CLAY (Note 1)		-20	1 3 4	2.2 B	32

	Elev.	DEPTH (ft)	BLOWS	UCS Qu (tsf)	MOIST (%)
V. Stiff Brown and mottled Grey, Moist CLAY (Note 1) *(continued)*			1 3 5	2.2 B	31
	311.50				
M. Stiff Brownish Grey, Moist SILTY CLAY (Note 1)		-25	1 2 3	0.8 B	33
	309.00				
Stiff Brownish Grey and mottled Black, Moist SILTY CLAY (Note 1)			1 1 2	1.2 B	29
	306.50				
Stiff Bluish Grey, Moist CLAY (Note 1)		-30	1 1 2	1.1 B	38
			1 2 3	1.0 B	29
	301.50				
M. Stiff Grey, Moist SILTY LOAM		-35	1 3 2	0.7 B	23
▽	300.50				
V. Loose Grey, Wet SANDY LOAM 71% f. SAND, 21% SILT, 8% CLAY (Lab 55)					
	299.00				
V. Loose Grey, Moist f. SAND with m. SAND 2% c. SAND, 15% m. SAND, 78% f. SAND, 4% SILT, 1% CLAY (Lab 56)			WOH WOH 1		
	296.50				
M. Dense Grey, Moist f. SAND with rounded GRAVEL 10% c. SAND to f. GRAVEL, 12%		-40	3 5 7		

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\BORING LOGS USING GINT\STATE STRUCTURES\ALEXANDER\002-0012 IL 3 OVER DRAINAGE DITCH 2019.GPJ Data Template D6TEMPLT.GDT Date Printed 1/2/20
Latitude 37-07-53.77 Longitude 89-17-00.54 Datum NAD83 Job Number

Illinois Department of Transportation
Division of Highways
District 9

SOIL BORING LOG

Page 2 of 2

Date 10/14/19

ROUTE IL 3 **DESCRIPTION** Structure over drainage ditch **LOGGED BY** L. Estel

Near W. Abut.

SECTION ____ **LOCATION** 1/2 mi. W of IL 127, **SEC.** 12, **TWP.** 16S, **RNG.** 2W, **PM**

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

STRUCT. NO. 002-0012
Station 533+64

BORING NO. 2-S
Station 534+58
Offset 7.0ft RT
Ground Surface Elev. 335.0 ft

Surface Water Elev. 310.4 ft
Stream Bed Elev. 306.6 ft

Groundwater Elev.:
▽ **First Encounter** 300.5 ft
▼ **Upon Completion** ____ ft
▼ **After** ____ **Hrs.** ____ ft

	Elev.	DEPTH (ft)	BLOWS	UCS Qu (tsf)	MOIST (%)
m. SAND, 73% f. SAND, 4% SILT, 1% CLAY (Lab 57)					
Loose		-45	3 3 6		
M. Dense		-50	7 13 15		
	281.50				
M. Dense Grey, Moist m. to f. SAND with f. GRAVEL 13% c. SAND to f. GRAVEL, 59% m. SAND, 26% f. SAND, 2% SILT (Lab 58)		-55	6 12 12		
(with a 2" COAL layer)		-60	5 9 12		

	Elev.	DEPTH (ft)	BLOWS	UCS Qu (tsf)	MOIST (%)
M. Dense Grey, Moist m. to f. SAND with f. GRAVEL 13% c. SAND to f. GRAVEL, 59% m. SAND, 26% f. SAND, 2% SILT (Lab 58) *(continued)*		-65	4 6 7		
		-70	8 10 12		
	261.50				
V. Hard White to Tan, Dry LIMESTONE			100/2"		
	261.30				
		-75			
		-80			

Note 1: Not Liquefiable, PI >= 12 based on visual ID and historical data

Bottom of hole @ 73.7 ft

Elevation referenced to BM 002-0012, Chiseled Square on NW Wingwall of SN 002-0012; EL. 335.63

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: L:\IDOT\22006610-00\WO_14\78791\CADD Data\Bridge\CADD_Sheets\0020038-78791-025-Soil Boring - III.dgn

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USER NAME = dcochran	DESIGNED - IPF	REVISED -	
	DRAWN - IPF	REVISED -	
	CHECKED - DAC/DH	REVISED -	
PLOT DATE = 9/23/2025	DATE - 2/25/2026	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOIL BORING AND ROCK CORE LOG - III
STRUCTURE NO. 002-0038

SCALE: SHEET 25 OF 25 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
14	136-1B	ALEXANDER	82	57
		CONTRACT NO. 78791		
	ILLINOIS	FED. AID PROJECT		

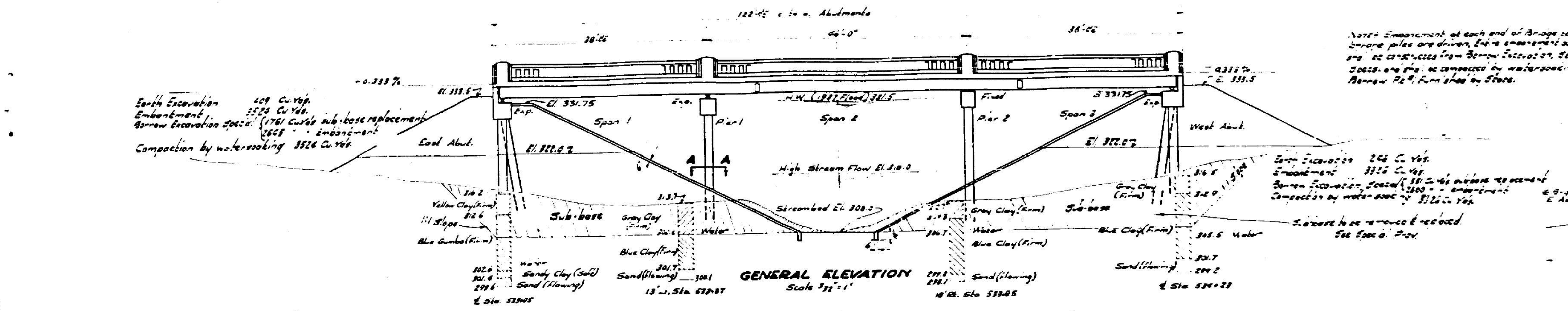
STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FA100	136-1B	Alexander	7	4

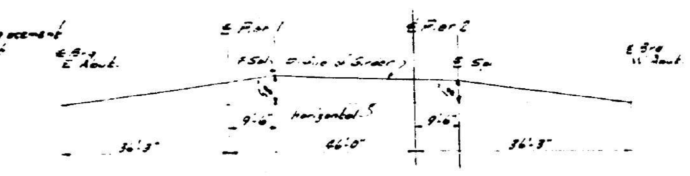
B.M. Spike & 2 washers in root of 15" Elm 100' Lt. Sta. 532+35 El. 315.53

Location - No existing structure

Note - Embankment at each end of Bridge to be constructed to El. 322.0 before piles are driven. Entire embankment at each abutment, including sub-base replacement, are to be constructed from Borrow Excavation, Special, in accordance with Sec. 16 of the Standard Specs. and shall be compacted by watersoaking in addition to mechanical compaction. Borrow Pit furnished by State.



GENERAL ELEVATION
Scale 3/32" = 1'



PROFILE OF GIRDER

TOTAL BILL OF MATERIAL

Item		Super structure	Sub structure	Total
Class X Concrete	Cu. Yds.	106.8	52.6	159.4
Handrail Concrete	Cu. Yds.	13.6	—	13.6
Structural Steel	Lbs.	87360	—	87360
Reinforcement Bars	Lbs.	19760	3750	23510
16" Precast Concrete Piles (40' lg.)	Lin. Ft.		1060	1060
Precast Test Piles	Each		2	2
Borrow Excavation, Special	Cu. Yds.		855?	855?
Slope Wall	Sq. Yds.		1625	1625
Name Plate	Each	1		1
Compaction by Watersoaking	Cu. Yds.		6850	6850
Earth Excavation	Cu. Yds.		2655	2655
Tree Removal	Acres			0.11

GENERAL NOTES

Class X Concrete shall be used thru-out except as noted.

Concrete floor slab shall be finished in accordance with Art. 61.3(e) of the Standard Specifications and shall be poured in one continuous operation.

All connections shall be riveted, except as noted. Rivets shall be 3/4" φ and holes 13/16" φ, except as noted.

All holes for splices shall be punched 11/16" φ and reamed to proper size (13/16" φ in web and 15/16" φ in flange) with all stringers assembled in shop in proper position with or without diaphragms in place. Leave assembled in shop for inspection.

All rollers, bearing plates, lead plates, and anchor bolts shall be furnished, painted and set in accordance with Art. 56.3(e) of the Std. Specs. and are included for payment as Structural Steel. Est. weight 6952#.

Structural steel shall receive one shop coat of red lead paint after inspection and two field coats of aluminum paint. All paint to be furnished by the contractor.

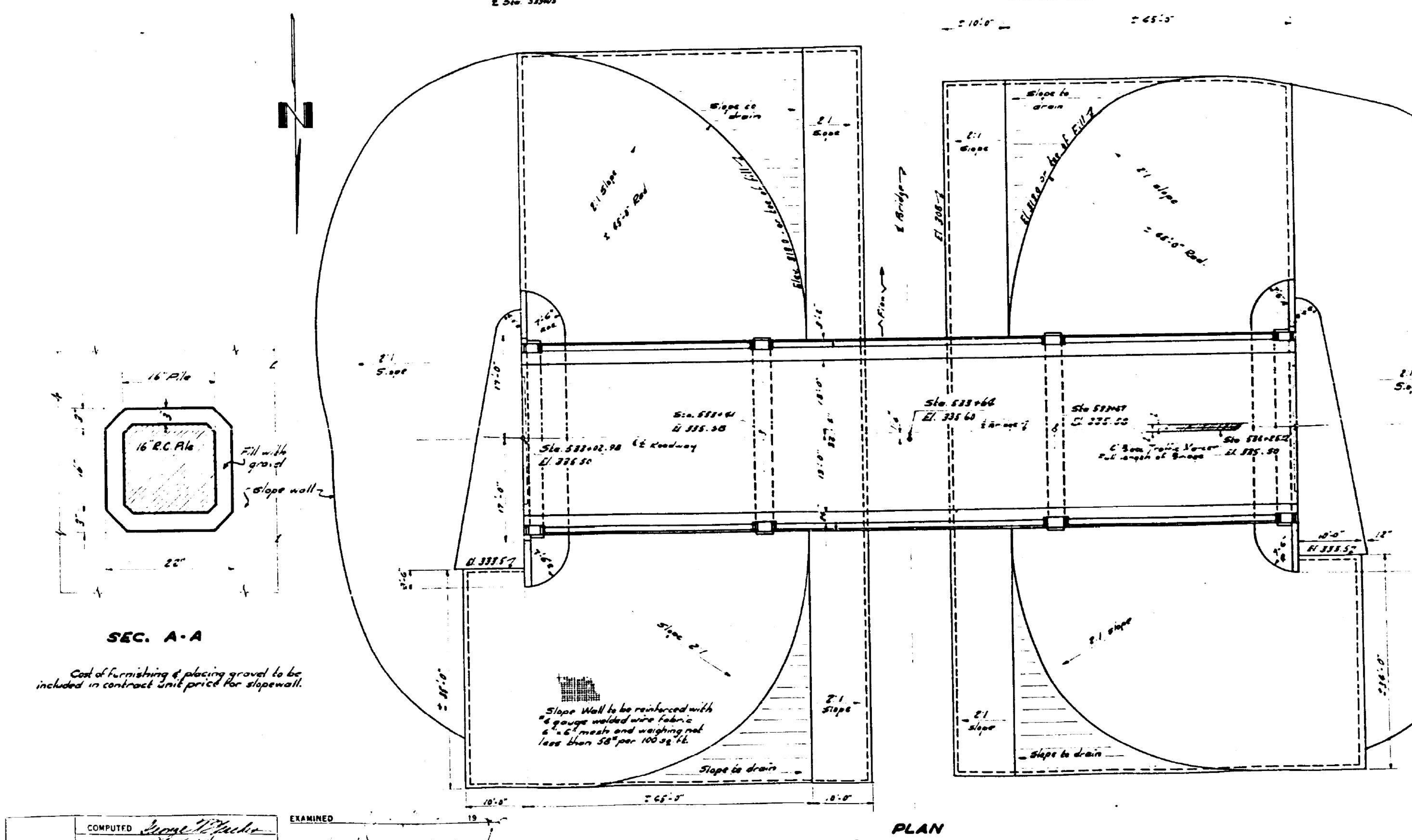
Contractor shall drive two test piles as directed by the Engineer before casting the remainder of the piles. One test pile shall be driven after embankment has been placed to El. 322.0.

Layout of slopewalls may be varied as necessary to conform to ground surface after embankment has been constructed if so directed by the Engineer.

Embankments at Abutments shall be compacted by watersoaking in addition to mechanical compaction.

Anchor bolts shall be set before riveting diaphragms over abuts. & piers.

Boring data are shown only as a guide to bidders in estimating soil conditions which may be encountered in the work.



SEC. A-A

Cost of furnishing & placing gravel to be included in contract unit price for slopewall.

Slope Wall to be reinforced with #6 gauge welded wire fabric 6" x 6" mesh and weighing not less than 58# per 100 sq. ft.

PLAN

STANDARD	COMPUTED	George McLachie
	CHECKED	R.L. Smith
	DRAWN	McLachie
	CHECKED	R.L.S.
SPECIAL	ASSEMBLED	
	CHECKED	

EXAMINED 19

PASSED

APPROVED

Revised from 24' to 26' Roadway - 10-7-46
Revised 1/24/47 - Sub-base removal & replacement added

WATERWAY INFORMATION
Drainage Area 6250 Acres
Character Level, Hilly
Opening Provided 316 # below H.W. / 1025 # below 1937 Flood

Design Stresses
fs 20,000 Reinforcement
fs 18,000 Structural
fc 1200
n 10

H-20-S-16-44 Loading

PROJ. F-201
F.A. RTE. 100 SEC. 136-1-B
ALEXANDER CO.
STA. 535+66

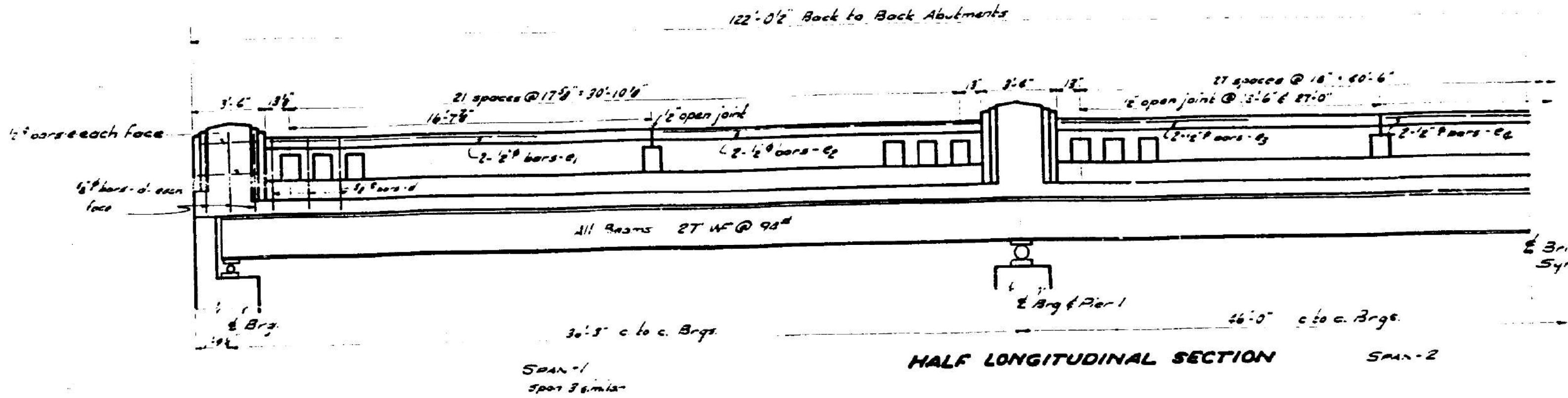
USER NAME = dcochran	DESIGNED - DAC	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EXISTING PLANS - I	F.A.P. RTE. 14	SECTION 136-1B	COUNTY ALEXANDER	TOTAL SHEETS 82	SHEET NO. 58
	DRAWN - DAC	REVISED -							
	CHECKED - DH	REVISED -			CONTRACT NO. 78791				
PLOT DATE = 9/24/2025	DATE - 2/25/2026	REVISED -		SCALE: SHEET 1 OF 5 SHEETS STA. TO STA.	ILLINOIS FED. AID PROJECT				

FILE NAME: L:\IDOT\220066\10-00\WO_14\78791\CADD Data\Bridge\CADD_Sheets\Existing Plans\0020012-78791-001-Existing Plans.dgn

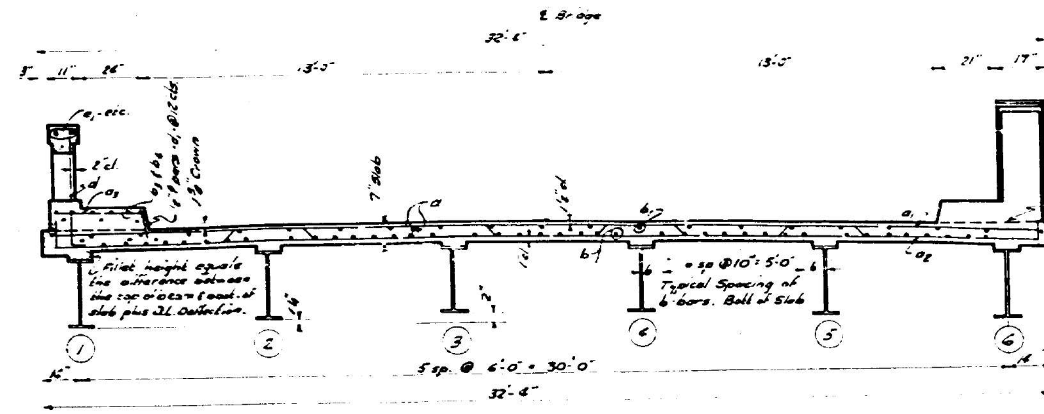
STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS

BOND ISSUE ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FA 100	136-1B	Alexander	9	5

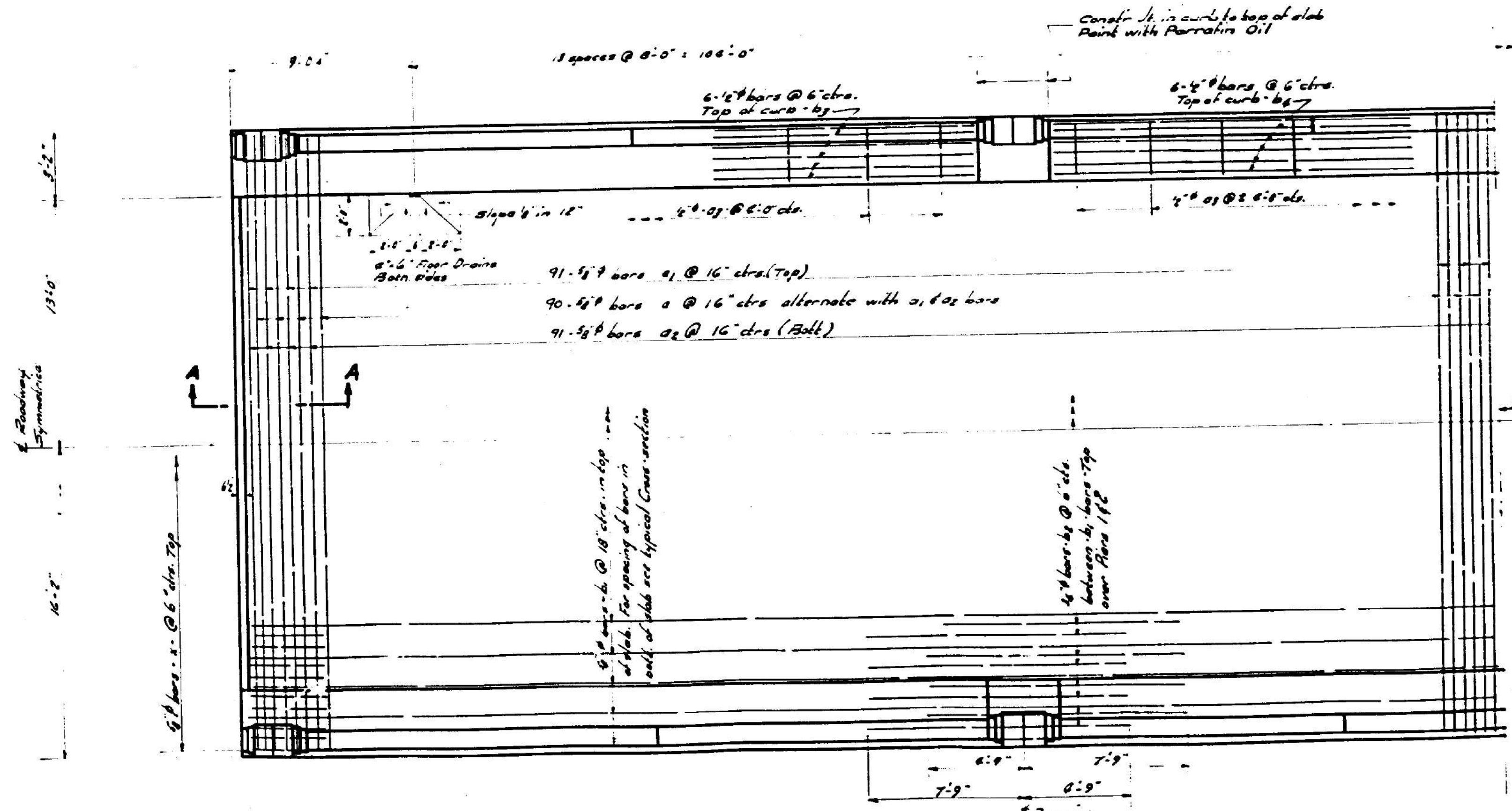
SHEET NO. 2
4 SHEETS



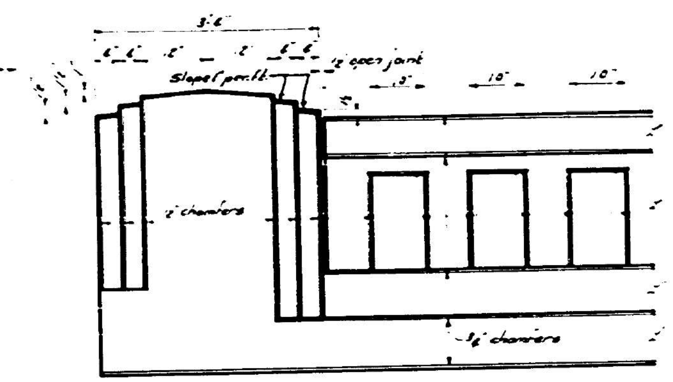
HALF LONGITUDINAL SECTION



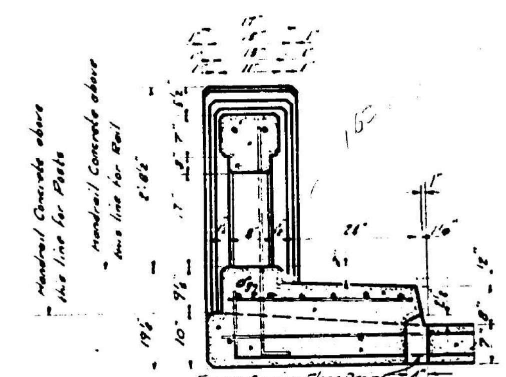
CROSS SECTION



PLAN



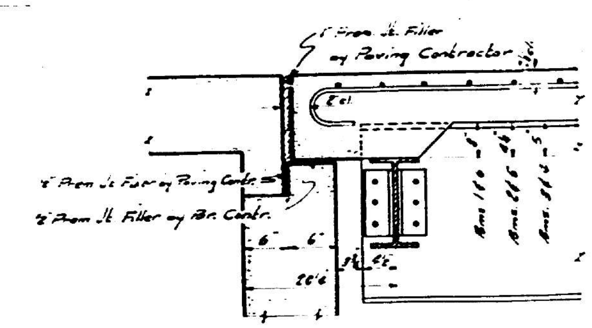
HANDRAIL DETAIL



SEC. OF RAIL DETAIL

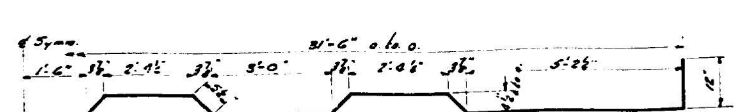
BILL OF MATERIAL - SUPERSTRUCTURE

Bar	No.	Size	Length	Shape
a	90	5/8"φ	34'-6"	
a1	91	5/8"φ	32'-0"	
a2	91	5/8"φ	31'-6"	
a3	58	½"φ	2'-6"	
a4	6	½"φ	13'-0"	
b	60	½"φ	31'-0"	
b1	88	5/8"φ	31'-3"	
b2	84	¾"φ	12'-6"	
b3	68	½"φ	18'-9"	
b4	26	½"φ	22'-0"	
d	198	5/8"φ	4'-6"	
d1	246	½"φ	1'-0"	
e	32	½"φ	3'-0"	
e	8	½"φ	16'-9"	
e1	8	½"φ	15'-6"	
e2	8	½"φ	14'-3"	
x	126	5/8"φ	5'-0"	
Class X Concrete			Cu. Yds. 106.8	
Handrail Concrete			Cu. Yds. 13.0	
Structural Steel			Lbs. 87360	
Reinforcement Bars			Lbs. 19760	
Name Plate			Ea. One	

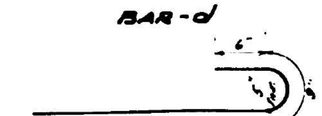


SEC. A-A

BAR-d



BAR-a



BAR-X

PROJ. F-201
F.A.RTE.100 SEC. 136-1-B
ALEXANDER COUNTY
STA. 583+64

STANDARD	COMPUTED	George V. Macher
	CHECKED	K. L. Smith
	DRAWN	Bear Lee
	CHECKED	R.L.S.
SPECIAL	ASSEMBLED	
	CHECKED	

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

Revised from 24' to 26' Roadway 10-7-46 H.L. Baumann Ch. 10-14-46 R.L.S.

FILE NAME: L:\IDOT\2200661O-00\WO_14\78791\CADD Data\Bridge\CADD_Sheets\Existing Plans\0020012-78791-002-Existing Plans.dgn

USER NAME = dcochran	DESIGNED - DAC	REVISED -
	DRAWN - DAC	REVISED -
	CHECKED - DH	REVISED -
PLOT DATE = 9/24/2025	DATE - 2/25/2026	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING PLANS - II

SCALE: SHEET 2 OF 5 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
14	136-1B	ALEXANDER	82	59

CONTRACT NO. 78791

ILLINOIS FED. AID PROJECT

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

FED. ROAD DIST. NO. 7 / BOND ISSUE ROUTE NO	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
FA 100	136-B	Alexander	9	6

SHEET NO. 3
SHEETS

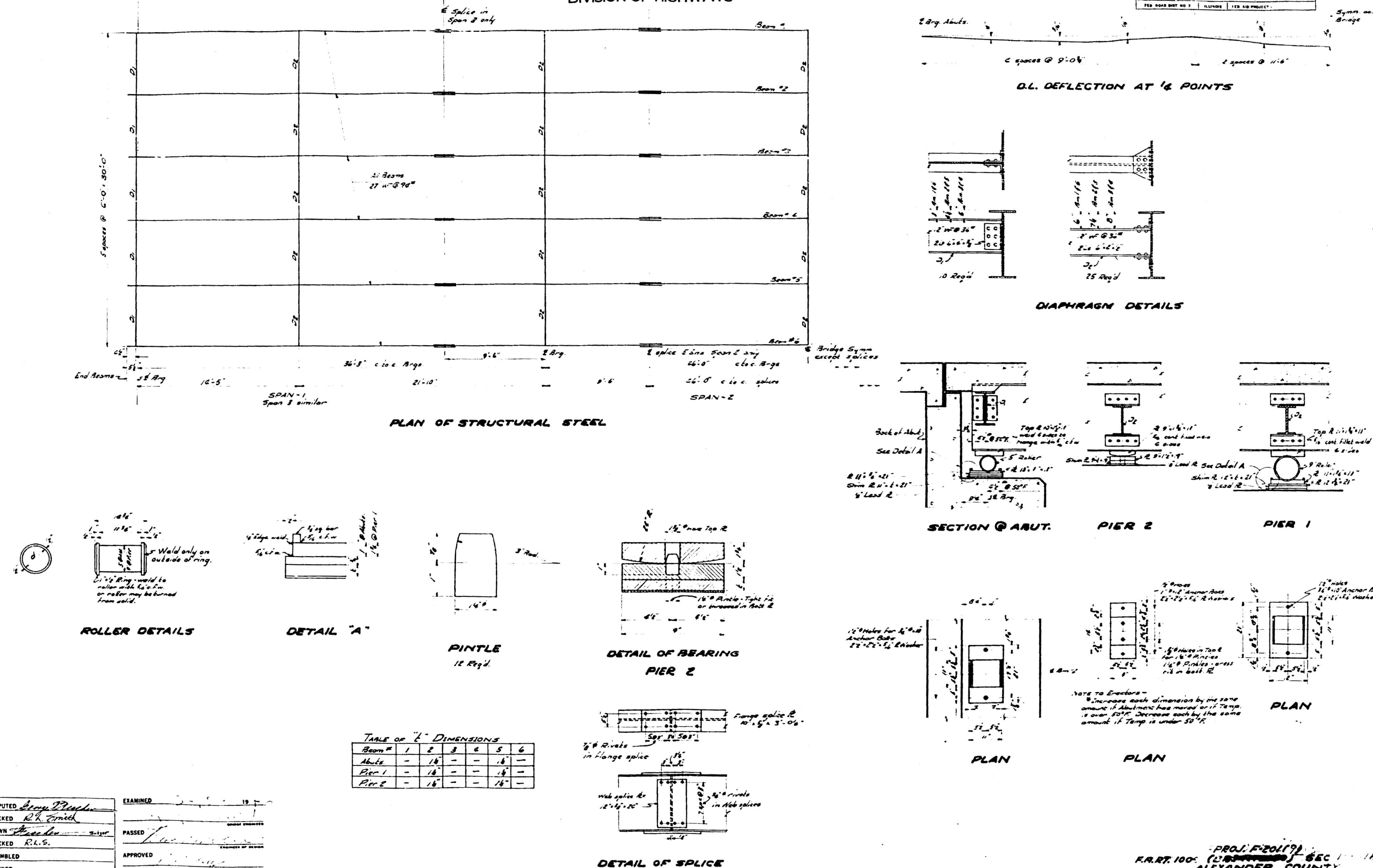


TABLE OF "E" DIMENSIONS

Beam #	1	2	3	4	5	6
Abuts.	-	1/8"	-	-	1/8"	-
Pier 1	-	1/8"	-	-	1/8"	-
Pier 2	-	1/8"	-	-	1/8"	-

STANDARD	COMPUTED	George Beecher	EXAMINED	19
	CHECKED	R. L. Smith		
	DRAWN	Beecher	PASSED	
	CHECKED	R.L.S.		
SPECIAL	ASSEMBLED		APPROVED	
	CHECKED			

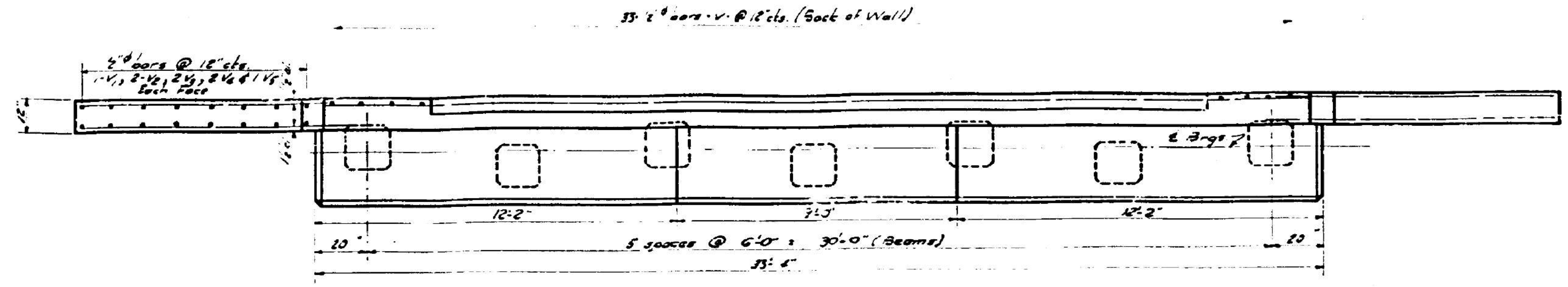
Revised from 24' to 26' Roadway 10-7-46 W.L. Bowman Chk. 10-16-46 R.L.S.

PROJ. F-201(7)
F.A.RT. 100 ([redacted]) SEC. 136-B-1
ALEXANDER COUNTY
STA. 533+66

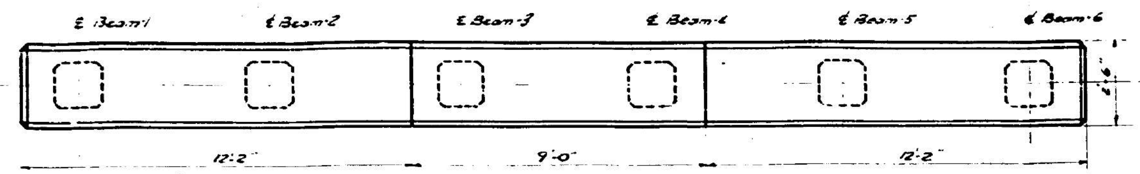
USER NAME = rheady	DESIGNED - DAC	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EXISTING PLANS - III	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	DRAWN - DAC	REVISED -			14	136-1B	ALEXANDER	82	60
	CHECKED - DH	REVISED -			CONTRACT NO. 78791				
PLOT DATE = 2/24/2026	DATE - 2/25/2026	REVISED -		SCALE: SHEET 3 OF 5 SHEETS STA. TO STA.	ILLINOIS FED. AID PROJECT				

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

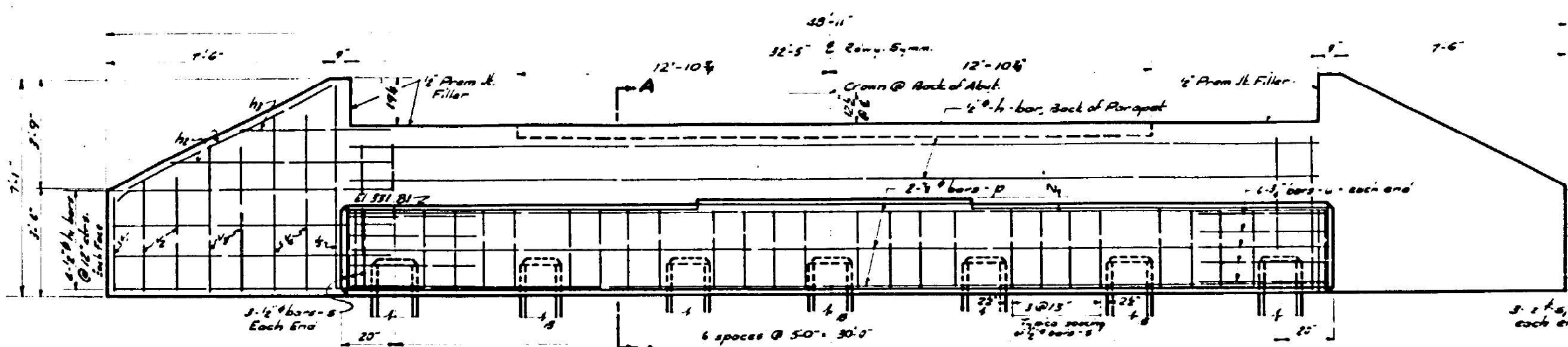
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FA100	136-1B	Alexander	9	7



PLAN OF ABUTMENT

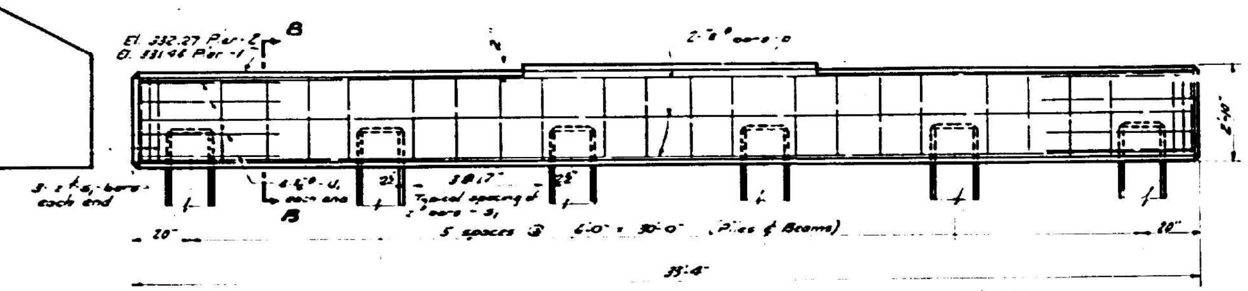


PLAN OF PIERS



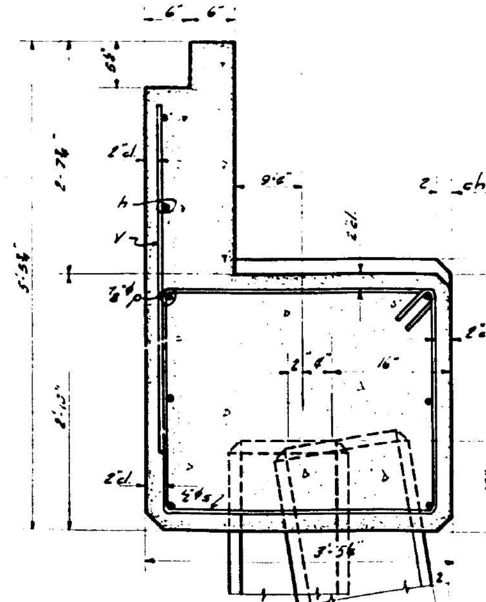
ELEVATION OF ABUTMENT

Abutment Piles
16" Precast Concrete Piles, Capacity 21 Tons
Estimated length 40'
No. Required 14 (2 Abuts)
Piles marked "B" are to be driven Batter

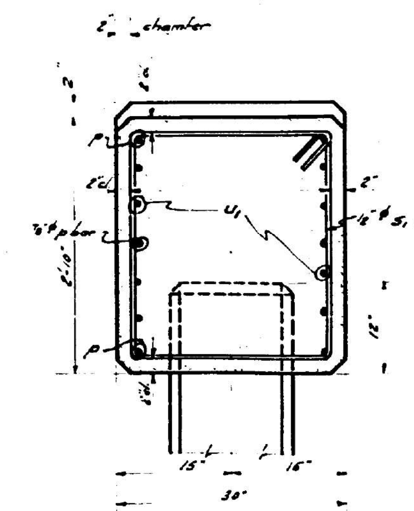


ELEVATION OF PIERS

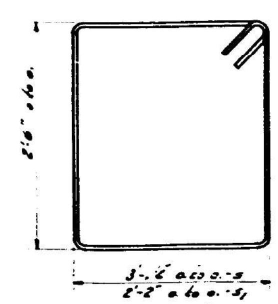
Pier Piles
16" Precast Concrete Piles, Capacity 31 Tons
Estimated length 45'
No. Required 12 (2 bents)



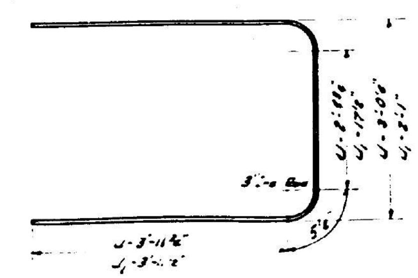
SEC. THRU ABUT. - A-A



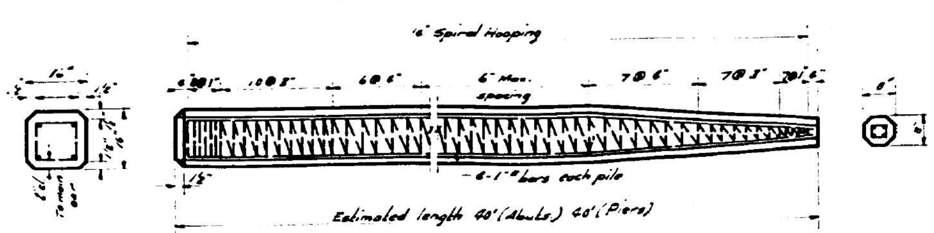
SEC. THRU PIER - B-B



BARS S & S1



BARS U & U1



DETAIL OF 16" PRECAST CONCRETE PILE

BILL OF MATERIALS - ABUTS & (PIERS)

Bar	No.	Size	Length	Shape
h	8	1/2"ø	16'-6"	—
h1	32	1/2"ø	10'-0"	—
h2	16	1/2"ø	8'-0"	—
h3	8	1/2"ø	6'-0	—
p	24	7/8"ø	32'-9"	—
s	60	1/2"ø	12'-0"	□
s1	52	1/2"ø	10'-8"	□
u	16	3/4"ø	11'-8"	⊏
u1	16	3/4"ø	10'-8"	⊏
v	66	1/2"ø	3'-9"	—
v1	8	1/2"ø	8'-3"	—
v2	16	1/2"ø	8'-9"	—
v3	16	1/2"ø	6'-3"	—
v4	16	1/2"ø	5'-9"	—
v5	8	1/2"ø	6'-9"	—

Class X Conc.	Cu. Yds	52.6
Reinforcement Bars	Lbs	37?0
Precast Conc. Piles (40 ft. lg.) Lin. ft.		1040
Precast Conc. Test Piles	Each	2

STANDARD	COMPUTED	
	CHECKED	C. L. Smith
	DRAWN	
	CHECKED	R.L.S.
SPECIAL	ASSEMBLED	
	CHECKED	

EXAMINED 19

PASSED

APPROVED

PROJ. F-2
F.A. RTE. 100 (, SEC. 136-1-B
ALEXANDER COUNTY
STA. 533+64

Revised from 24' to 26' Roadway 10-2-46 ch'k 10-18-46 R.L.S.

FILE NAME: L:\IDOT\22006610-00\WO_14\78791\CADD Data\Bridge\CADD_Sheets\Existing Plans\00220012-78791-004-Existing Plans.dgn

USER NAME = rheady	DESIGNED - DAC	REVISED -
	DRAWN - DAC	REVISED -
	CHECKED - DH	REVISED -
PLOT DATE = 2/24/2026	DATE - 2/25/2026	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING PLANS - IV

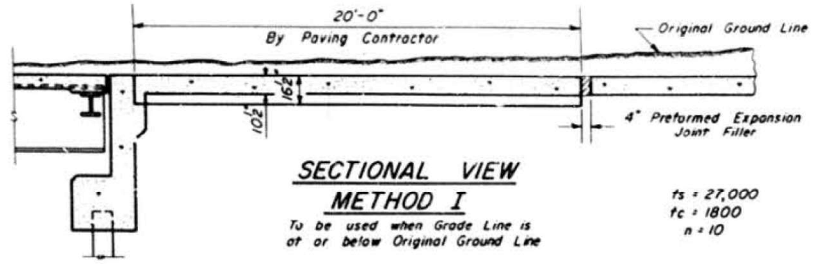
SCALE: SHEET 4 OF 5 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
14	136-1B	ALEXANDER	82	61

CONTRACT NO. 78791

ILLINOIS FED. AID PROJECT

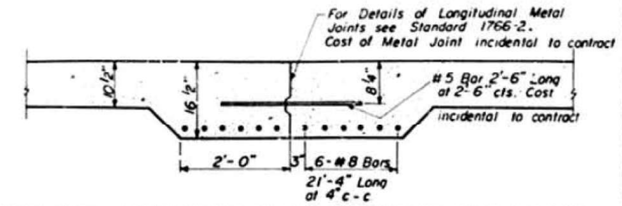
DETAILS OF BRIDGE APPROACHES



SECTIONAL VIEW METHOD I

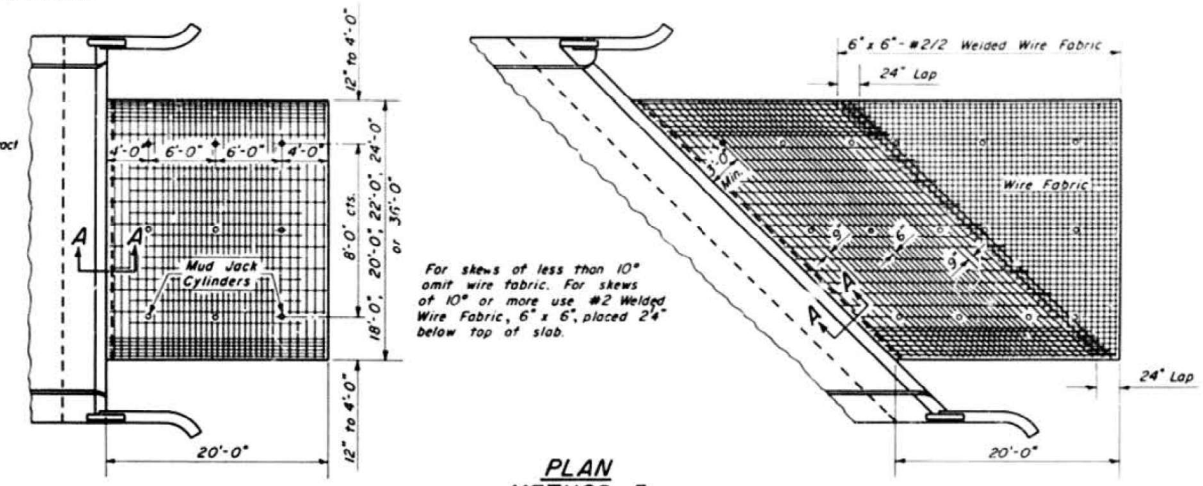
To be used when Grade Line is at or below Original Ground Line

fs = 27,000
fc = 1800
n = 10



OPTIONAL LONGITUDINAL CONSTRUCTION JOINT

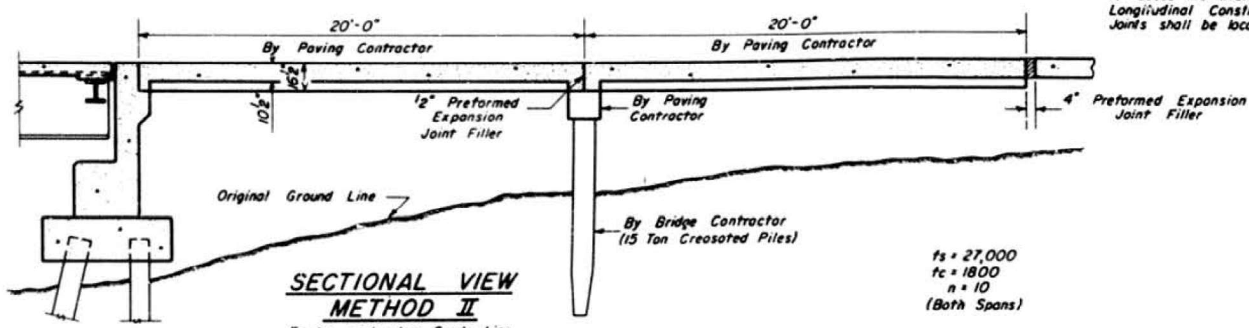
As approved by the Engineer, the Contractor may elect to reduce the widths of pour by use of the Optional Longitudinal Construction Joint shown. Joints shall be located at the edge of a Traffic Lane.



For skews of less than 10° omit wire fabric. For skews of 10° or more use #2 Welded Wire Fabric, 6" x 6", placed 2¼" below top of slab.

PLAN METHOD I

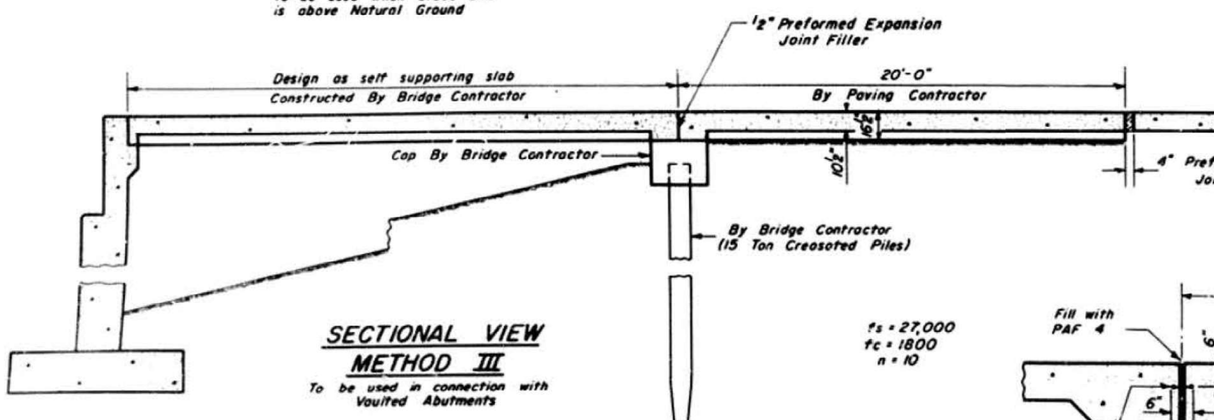
Expanded Metal weighing not less than 78 Lbs. per 100 sq.ft. or a welded bar mat weighing not less than 78 Lbs. per 100 sq.ft. having members of equal size in both directions and spaced not over 8" apart may be used instead of the #2 Welded Wire Fabric, 6" x 6", provided the expanded metal or bar mat is furnished at no additional cost to the State.



fs = 27,000
fc = 1800
n = 10
(Both Spans)

SECTIONAL VIEW METHOD II

To be used when Grade Line is above Natural Ground

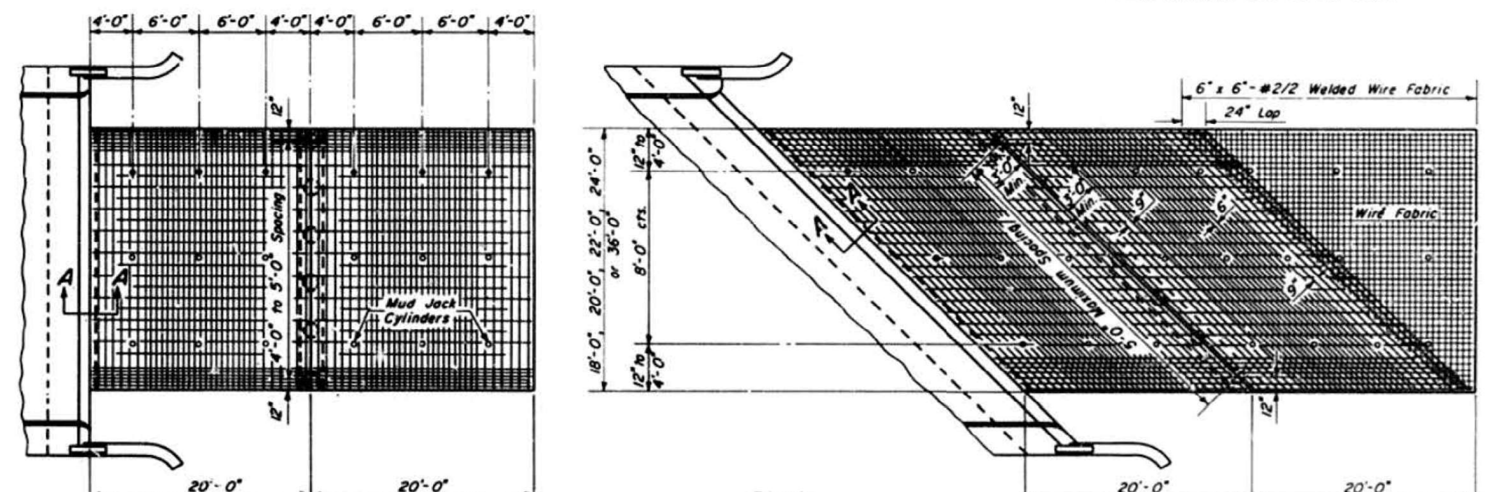


SECTIONAL VIEW METHOD III

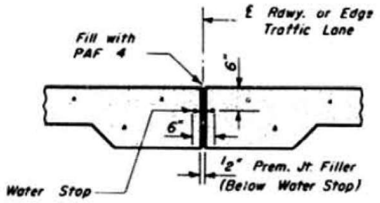
To be used in connection with Vaulted Abutments

fs = 27,000
fc = 1800
n = 10

Note: Details of Approach Slab By Paving Contractor same as shown for Method I

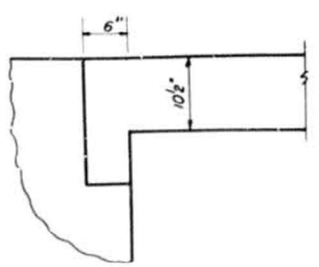


PLAN METHOD II



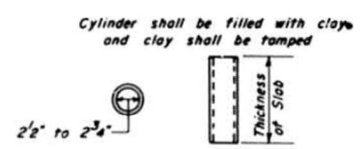
LONGITUDINAL EXPANSION JOINT

To be used when Approach Slabs are greater than 36'-0" wide. Joint shall be placed at edge of Traffic Lane nearest to the ℄ of the total width of Approach Slab.



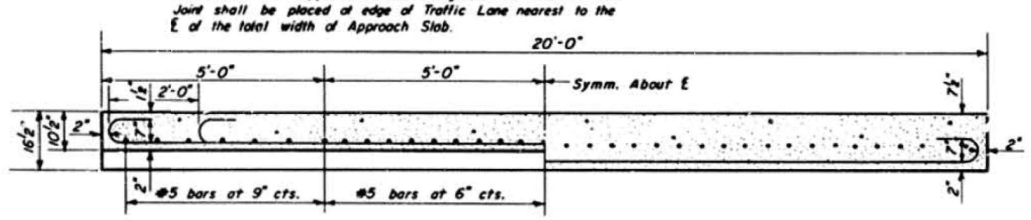
SECTION A-A

Cylinder shall be filled with clay and clay shall be tamped



DETAIL OF MUD JACK CYLINDER

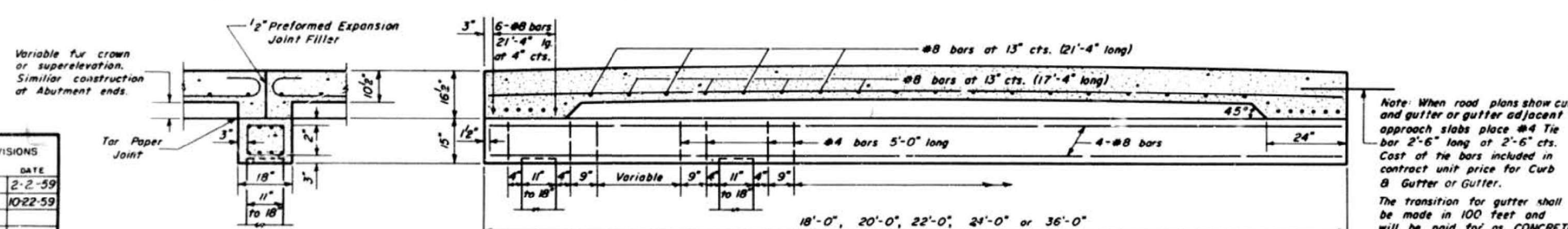
Cylinders shall be Standard Weight Black Steel Pipe



LONGITUDINAL SECTION THRU CENTER OF SLAB

LONGITUDINAL SECTION THRU THICKENED EDGE OF SLAB

Variable for crown or superelevation. Similiar construction at Abutment ends.



Note: When road plans show curb and gutter or gutter adjacent to approach slabs place #4 Tie bar 2'-6" long at 2'-6" cts. Cost of tie bars included in contract unit price for Curb & Gutter or Gutter.

The transition for gutter shall be made in 100 feet and will be paid for as CONCRETE GUTTER, of the type specified.

The transition for curb and gutter shall be made in 20 feet and will be paid for as COMBINATION CURB and GUTTER, of the type specified.

SECTIONAL VIEW OF CONCRETE SLAB AND CAP

GENERAL NOTES

The slab or slabs will be paid for at the contract unit price for PORTLAND CEMENT CONCRETE PAVEMENT (16½"-10½"-16½").

The concrete cap will be paid for at the contract unit price for CLASS X CONCRETE.

All Reinforcement Bars, except tie bars for curb and gutter or gutter, will be paid for at the contract unit price for REINFORCEMENT BARS.

The Welded Wire Fabric, Mud Jack Cylinders and Preformed Expansion Joint Filler shall be included in the unit price bid for PORTLAND CEMENT CONCRETE PAVEMENT (16½"-10½"-16½").

Preformed Expansion Joint Filler shall conform to Section 129 of the Standard Specifications.

Width of Bridge Approach Slab pours shall be determined before the reinforcement bars are fabricated.

Quantities shown for Reinforcement Bars are for two (2) thickened edges only.

STANDARD 1909 – 3

STATE OF ILLINOIS DEPARTMENT OF PUBLIC WORKS AND BUILDINGS DIVISION OF HIGHWAYS	REVISIONS	
	BY	DATE
PASSED DEC. 18 1958	WAS	2-2-59
ENGINEER OF BRIDGE AND TRAFFIC STRUCTURES	CET	10-22-59
APPROVED DEC. 18 1958 ENGINEER OF DESIGN		

FILE NAME: L:\IDOT\22006610-00\WO_14\78791\CADD Data\Bridge\CADD_Sheets\Existing Plans\0020012-78791-005-Existing Plans.dgn

USER NAME = rheady	DESIGNED - DAC	REVISED -
	DRAWN - DAC	REVISED -
	CHECKED - DH	REVISED -
PLOT DATE = 2/24/2026	DATE - 2/25/2026	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING PLANS - V

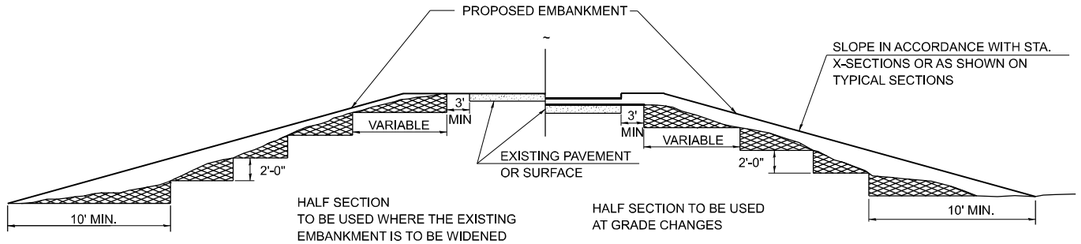
SCALE: SHEET 5 OF 5 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
14	136-1B	ALEXANDER	82	62

CONTRACT NO. 78791

ILLINOIS FED. AID PROJECT

TYPICAL CROSS SECTION SHOWING STEP CONSTRUCTION ON EXISTING FILL

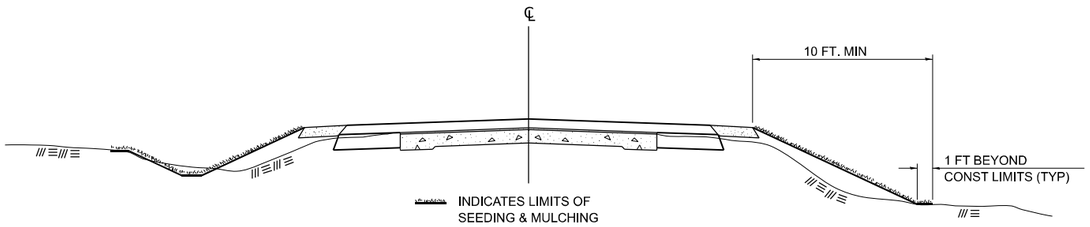


STEPS SHALL BE CUT IN THE EXISTING SLOPE IN ACCORDANCE WITH ART. 205.03 EXCEPT THAT THE REQUIREMENT THAT STEPS SHALL BE CUT INTO THE EXISTING SLOPE BEFORE THE CONTRUCTION OF THE EXISTING EMBANKMENT IS STARTED SHALL NOT APPLY. MATERIAL TO BE REMOVED AND REPLACED IN THE EMBANKMENT IN ACCORDANCE WITH ART.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

DRAWN	02-15-89
REVISED	05-07-08
REVISED	10-21-21
REVISED	05-27-22

STD. 9-25

SEEDING & MULCHING



GENERAL NOTES

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

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

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

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

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

DRAWN	02-15-89
REVISED	03-27-08
REVISED	10-21-21
REVISED	05-27-22

STD. 9-19

MODEL: D9-Details-1 [Sheet]
FILE NAME: ...D9787791-sht-detail_D9standards.dgn

CMT
License No. 184-000613

USER NAME = Matt Overbey		DESIGNED - MLC		REVISED -	
		DRAWN - RAH		REVISED -	
		CHECKED - MJO		REVISED -	
PLOT DATE = 2/24/2026		DATE - 2/25/2026		REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

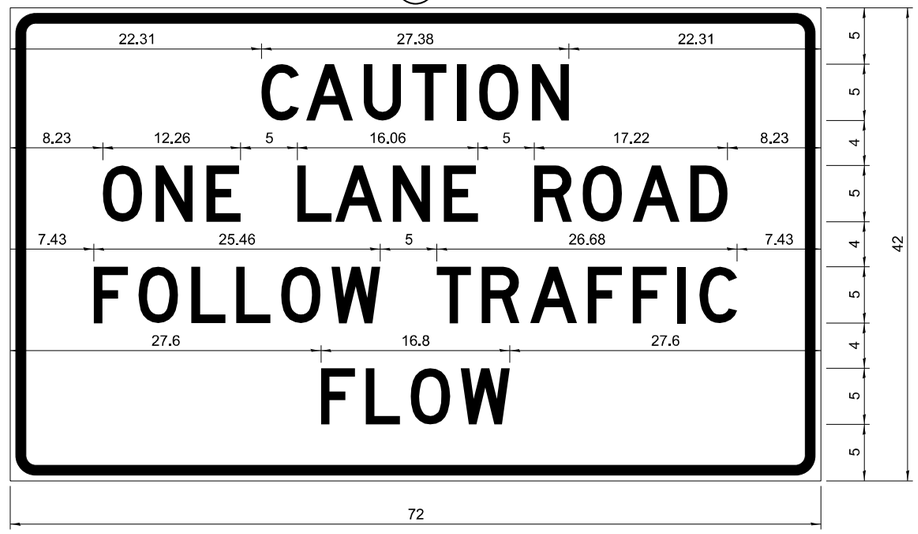
F.A.P 14 (ILLINOIS ROUTE 3)
DETAILS - D9 STANDARDS

SCALE: | SHEET 1 OF 1 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
14	136-1(B-2)	ALEXANDER	82	63
		CONTRACT NO. 78791		
	ILLINOIS	FED. AID PROJECT		

ENTRANCE SIGN FOR USE WITH TEMPORARY SIGNALS

(2)



COLOR	LEGEND AND BORDER	BLACK	NON-REFLECTORIZED
	BACKGROUND	ORANGE	REFLECTORIZED

2.25" Radius, 0.88" Border, 0.50" IndenT;
[CAUTION] D; [ONE LANE ROAD] D;
[FOLLOW TRAFFIC] D; [FLOW] D

(2) This sign shall be installed at entrances located between the temporary signals as shown in the staging plans.

Table Of Widths And Spaces

22.31	C 3.36	0.62	A 4.18	0.94	U 3.36	0.94	T 3.04	0.94	I 0.78	1.17	O 3.52	1.17	N 3.36	22.31

8.23	O 3.51	1.17	N 3.36	1.18	E 3.04	

5.00	L 3.05	0.31	A 4.18	0.94	N 3.36	1.17	E 3.05

5.00	R 3.36	0.93	O 3.52	0.94	A 4.18	0.93	D 3.36	8.23

7.43	F 3.04	0.94	O 3.52	1.17	L 3.04	0.94	L 3.05	0.94	O 3.51	0.94	W 4.37

5.00	T 3.05	0.94	R 3.36	0.94	A 4.18	0.93	F 3.05	0.94	F 3.04	0.94	I 0.78	1.18	C 3.35	7.43

27.60	F 3.05	0.94	L 3.04	0.94	O 3.52	0.93	W 4.38	27.60

Sign not to scale

GENERAL NOTES

All work to furnish and install these signs shall be included in the cost of the specified traffic control standards and shall not be paid separately.

All Illinois Standard signs shall conform to the latest edition of the "Illinois Standard Highway Signs Book" in effect on the date of invitation for bids.

Signs shall meet the applicable portions of Sections 701 and 720 of the Standard Specifications.

All dimensions are in inches unless otherwise noted.

DRAWN	3-2-16 D2
REVISED	03-12-24
REVISED	
REVISED	

STD. 9-34

MODEL: Detail-03 [Sheet]
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License No. 184-000613

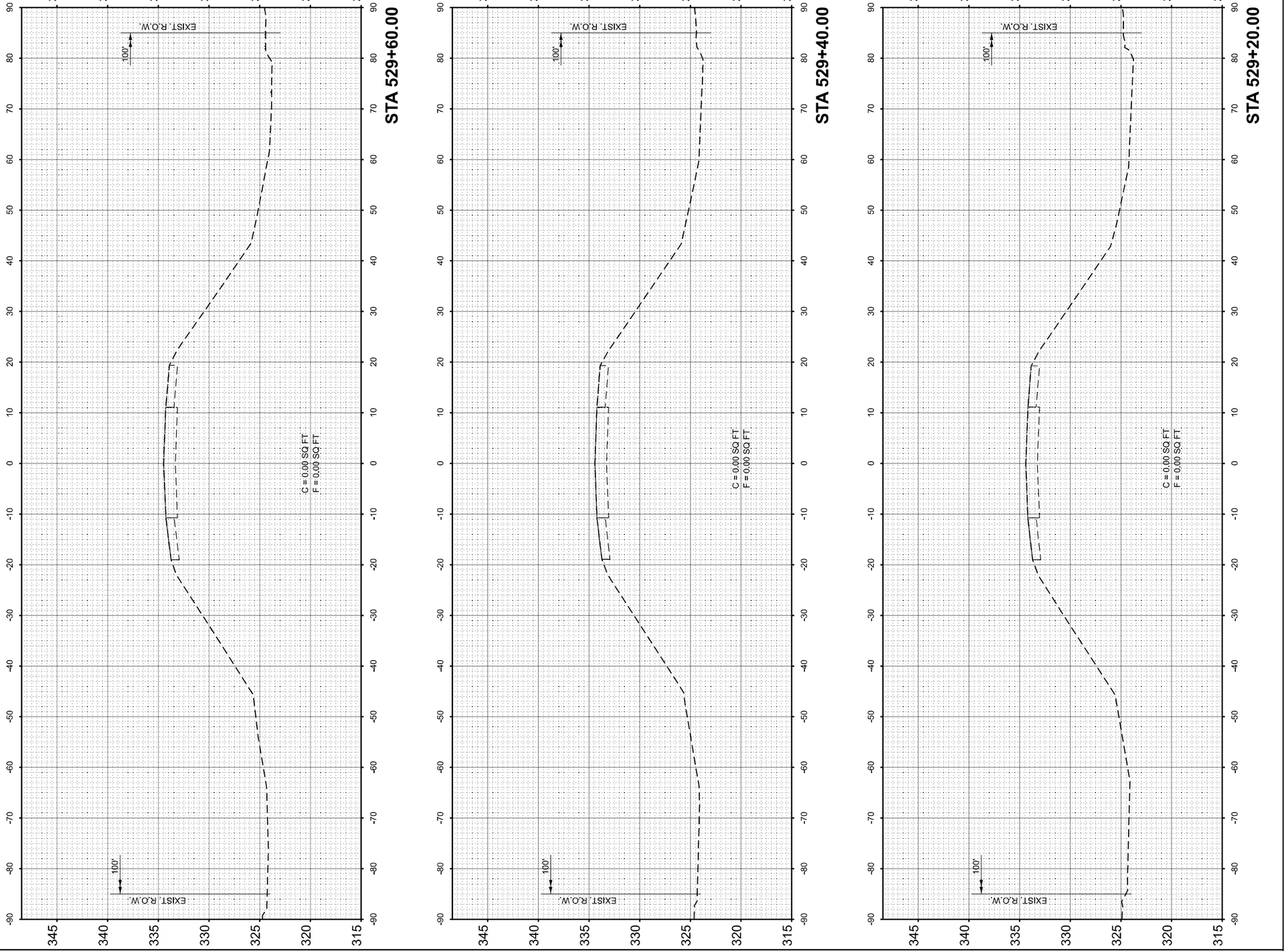
USER NAME = Matt Overbey	DESIGNED - MLC	REVISED -			
	DRAWN - RAH	REVISED -			
	CHECKED - MJO	REVISED -			
PLOT DATE = 2/24/2026	DATE - 2/25/2026	REVISED -			

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.P 14 (ILLINOIS ROUTE 3)
DETAILS - D9 STANDARDS

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
14	136-1(B-2)	ALEXANDER	82	64
		CONTRACT NO. 78791		
	ILLINOIS FED. AID PROJECT			



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

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

MODEL: SHT - XS - 02
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License No. 184-000613

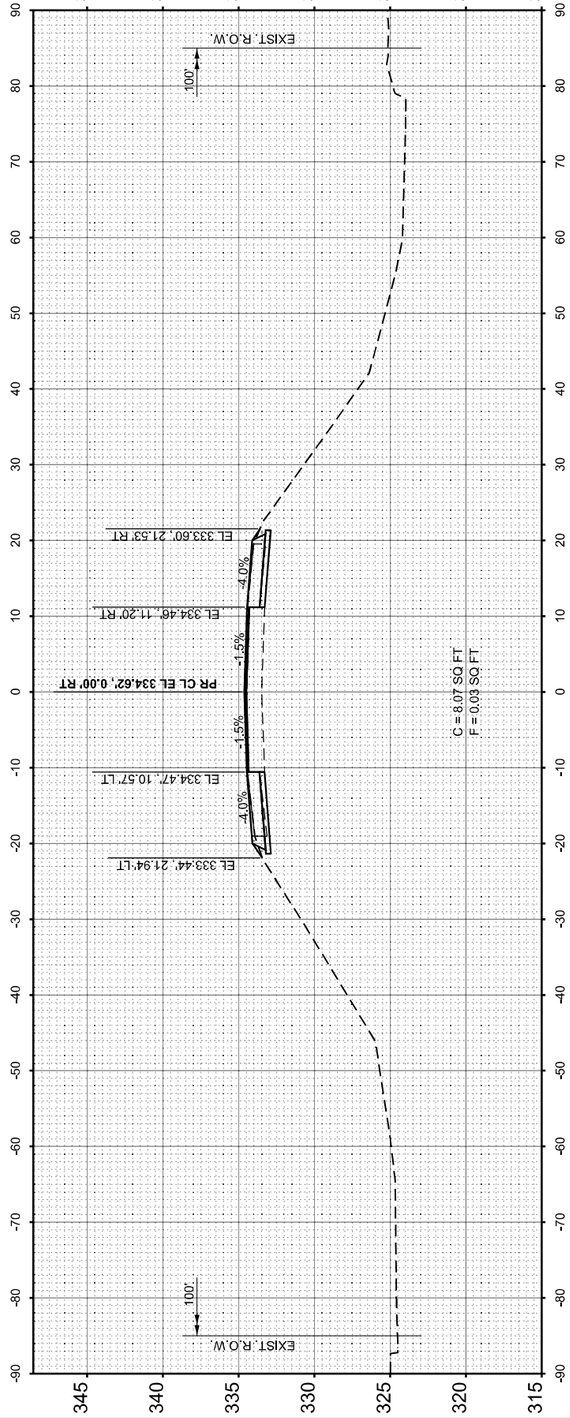
USER NAME = moverbey	DESIGNED - MJO	REVISED -	
	DRAWN - MJO	REVISED -	
	CHECKED - JMM	REVISED -	
PLOT DATE = 11/26/2025	DATE - 12/3/2025	REVISED -	

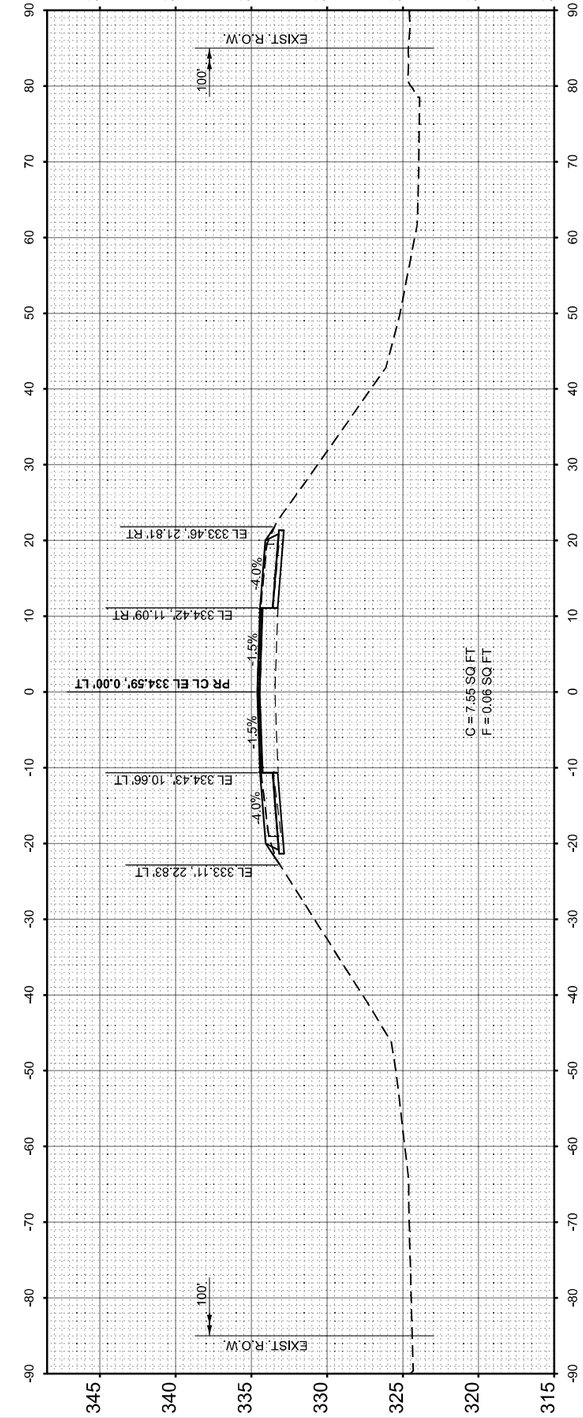
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

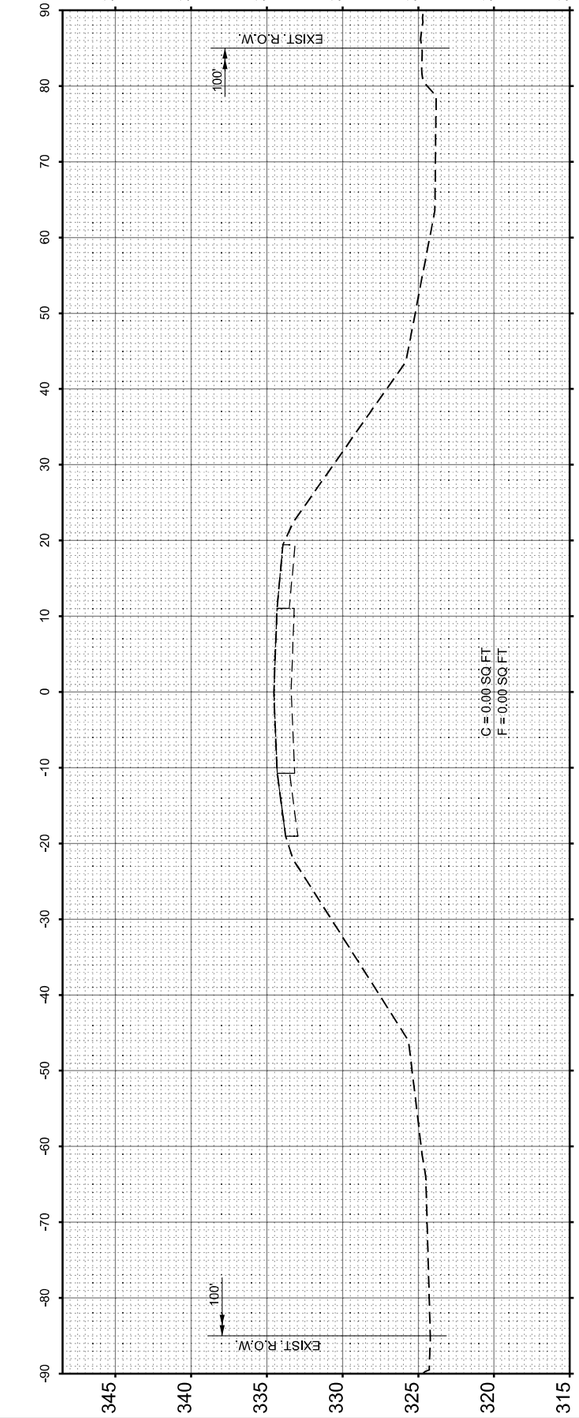
F.A.P. 14 (ILLINOIS ROUTE 3)
CROSS SECTIONS

SCALE: 1"=10' | SHEET 2 OF 18 SHEETS | STA. | TO STA.

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
14	136-1(B-2)	ALEXANDER	82	65
		CONTRACT NO. 78791		
	ILLINOIS	FED. AID PROJECT		







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

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

MODEL: SHT - XS - 02
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PLOT DATE = 11/26/2025	DATE - 12/3/2025	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

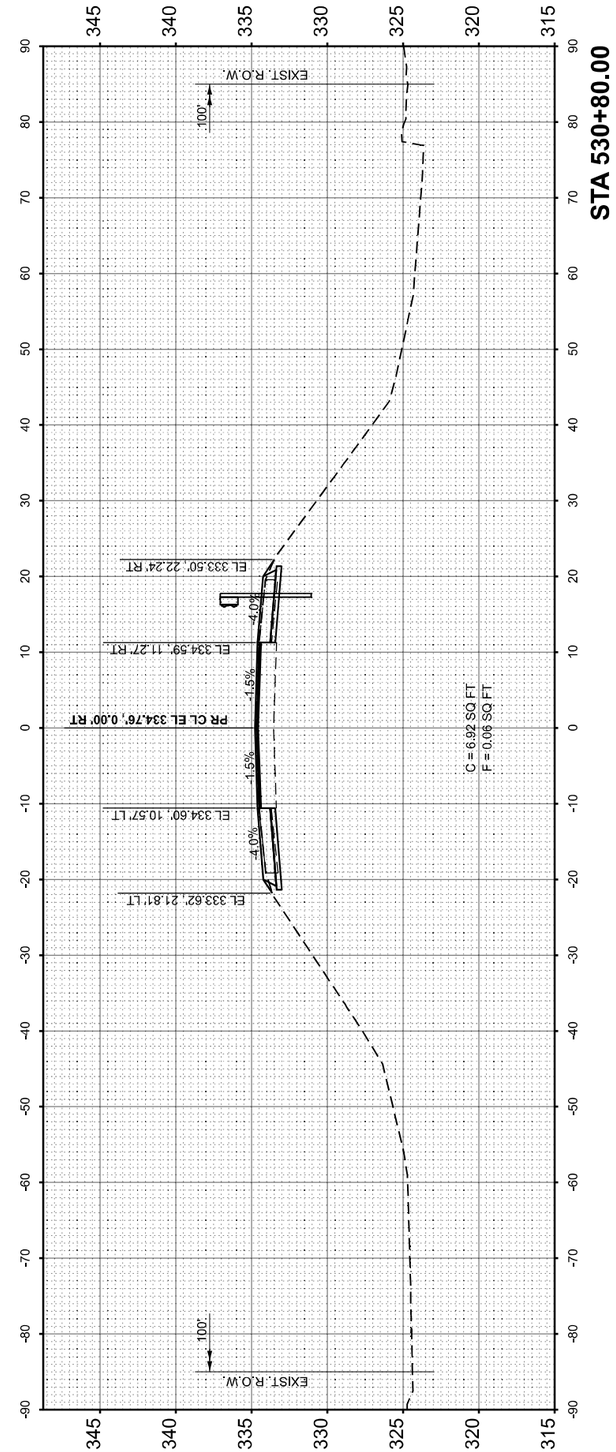
F.A.P. 14 (ILLINOIS ROUTE 3)
CROSS SECTIONS

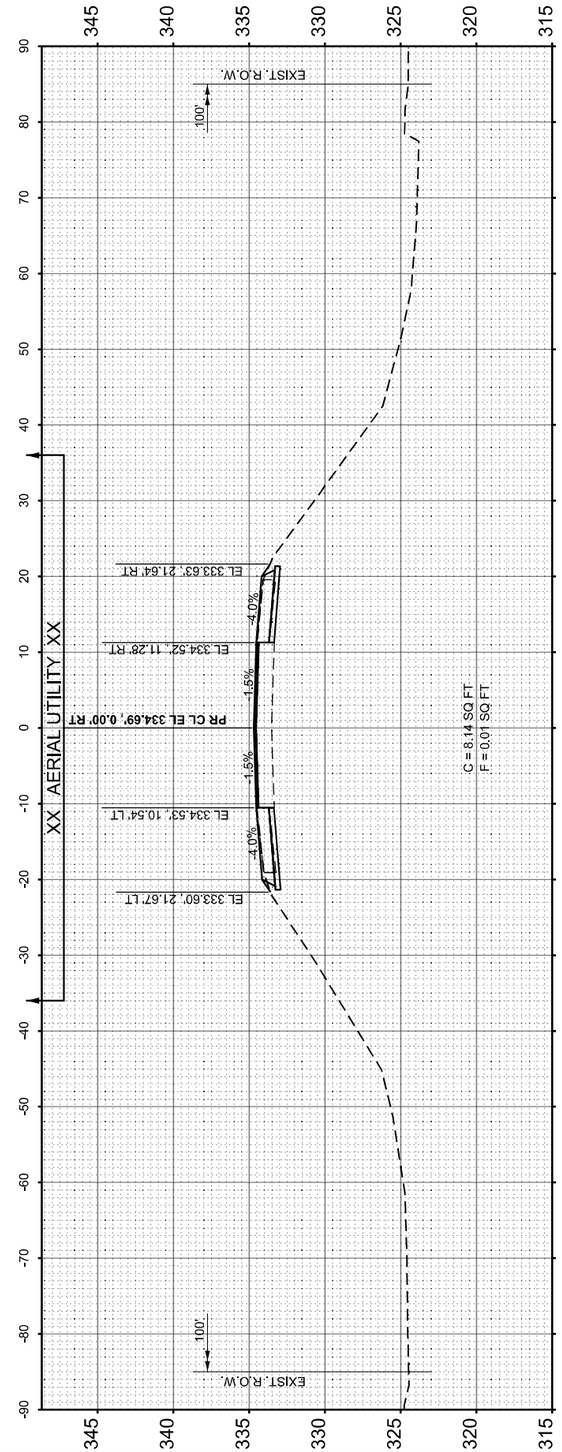
SCALE: 1"=10' | SHEET 2 OF 18 SHEETS | STA. | TO STA.

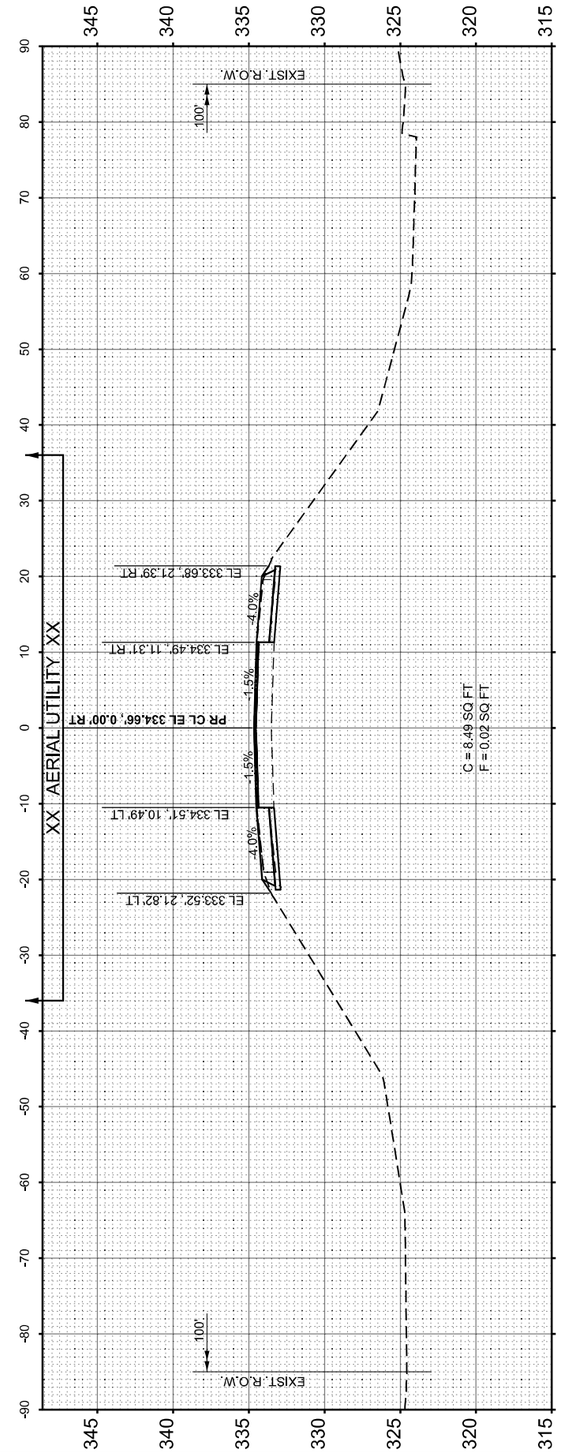
F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
14	136-1(B-2)	ALEXANDER	82	66
		CONTRACT NO. 78791		
	ILLINOIS	FED. AID PROJECT		

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

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







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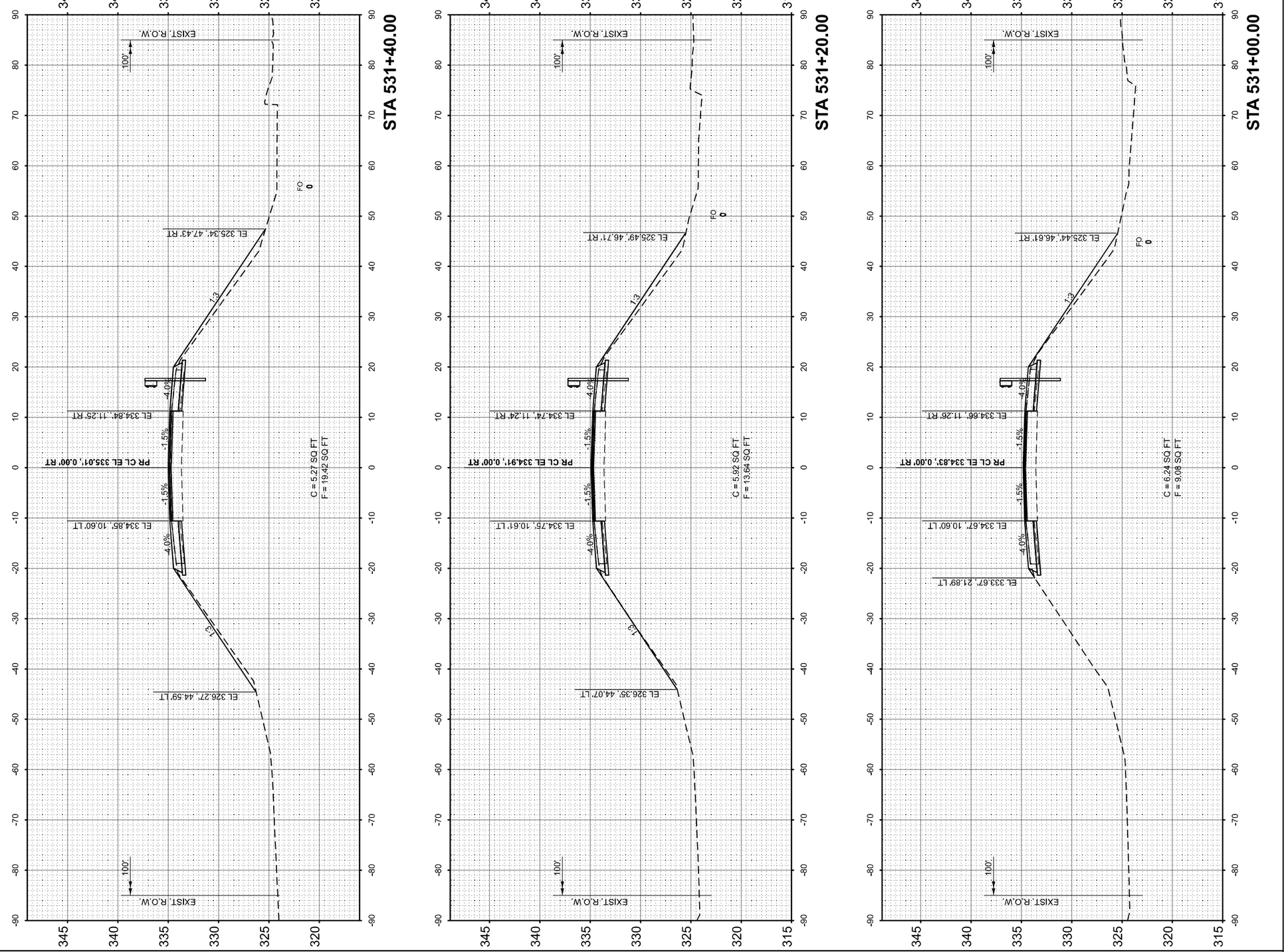
PLOT DATE = 11/26/2025	DATE - 12/3/2025	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.P. 14 (ILLINOIS ROUTE 3)
CROSS SECTIONS

SCALE: 1"=10' | SHEET 3 OF 18 SHEETS | STA. | TO STA.

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
14	136-1(B-2)	ALEXANDER	82	67
		CONTRACT NO. 78791		
	ILLINOIS	FED. AID PROJECT		



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

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

MODEL: SHT - XS - 04
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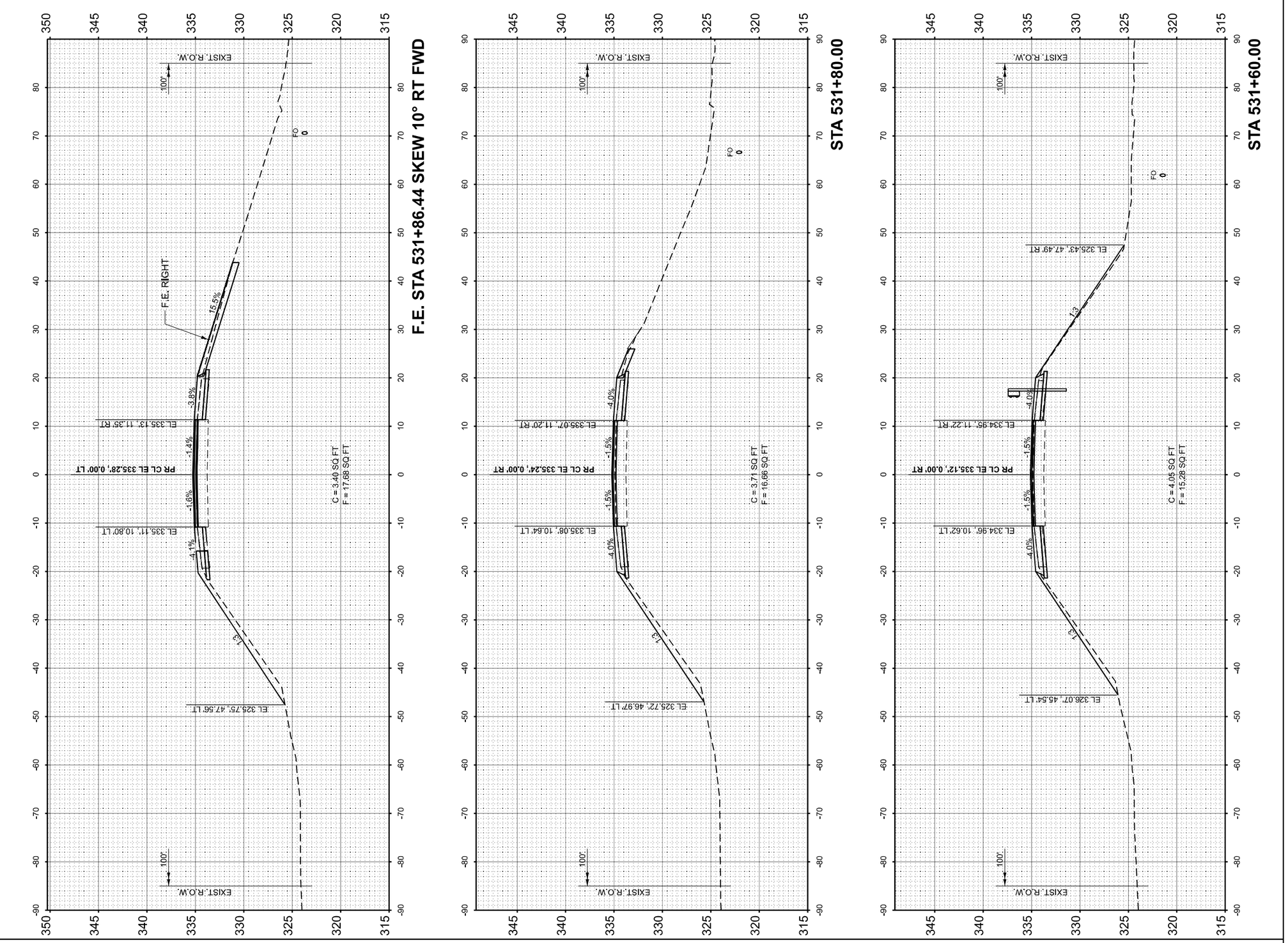
	CHECKED - JMM	REVISED -	
PLOT DATE = 11/26/2025	DATE - 12/3/2025	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.P. 14 (ILLINOIS ROUTE 3)
CROSS SECTIONS

SCALE: 1"=10' | SHEET 4 OF 18 SHEETS | STA. | TO STA.

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
14	136-1(B-2)	ALEXANDER	82	68
		CONTRACT NO. 78791		
	ILLINOIS FED. AID PROJECT			



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

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

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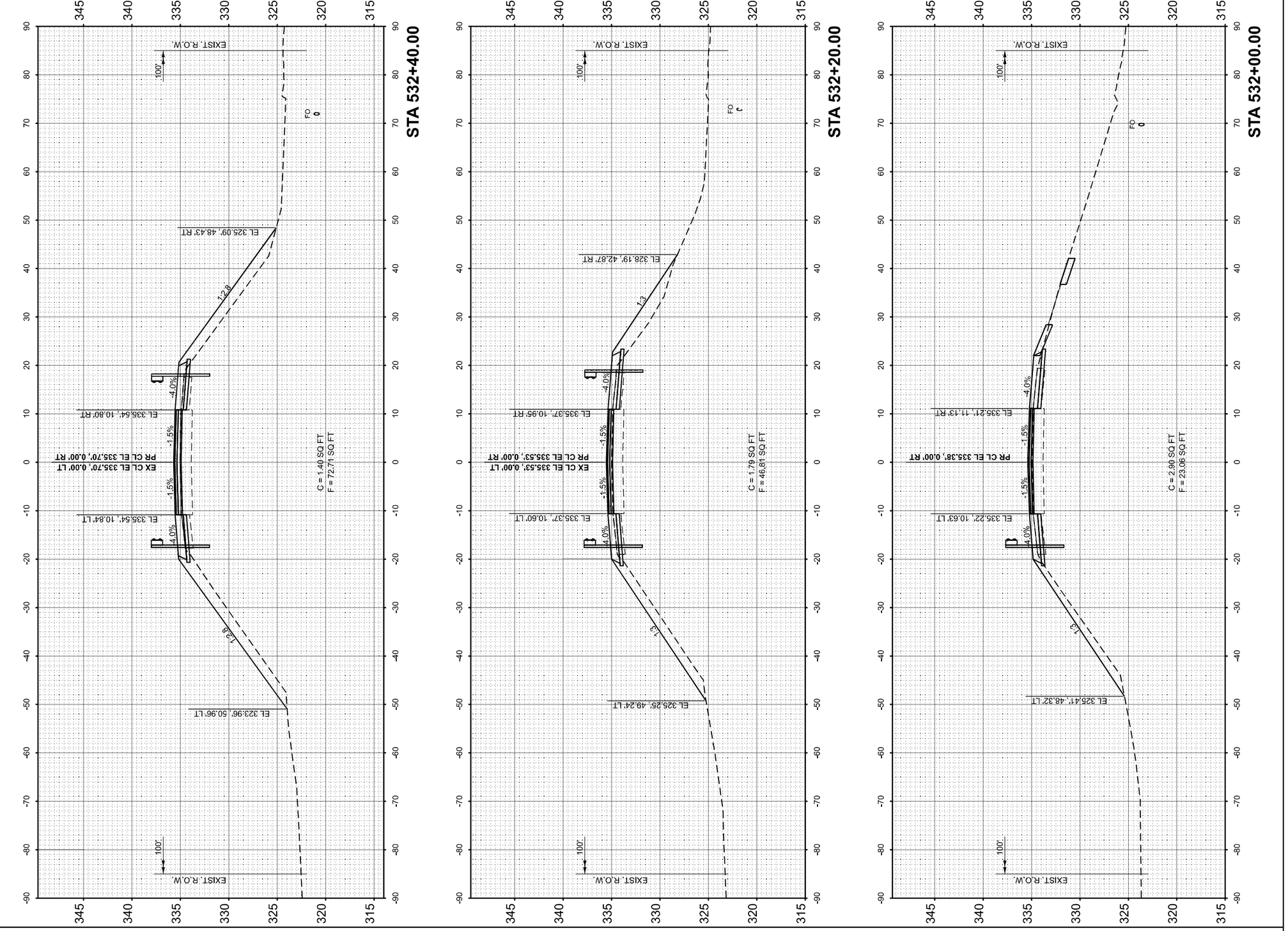
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.P. 14 (ILLINOIS ROUTE 3)
CROSS SECTIONS

SCALE: 1"=10' | SHEET 5 OF 18 SHEETS | STA. | TO STA.

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
14	136-1(B-2)	ALEXANDER	82	69
		CONTRACT NO. 78791		
	ILLINOIS FED. AID PROJECT			



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

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

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

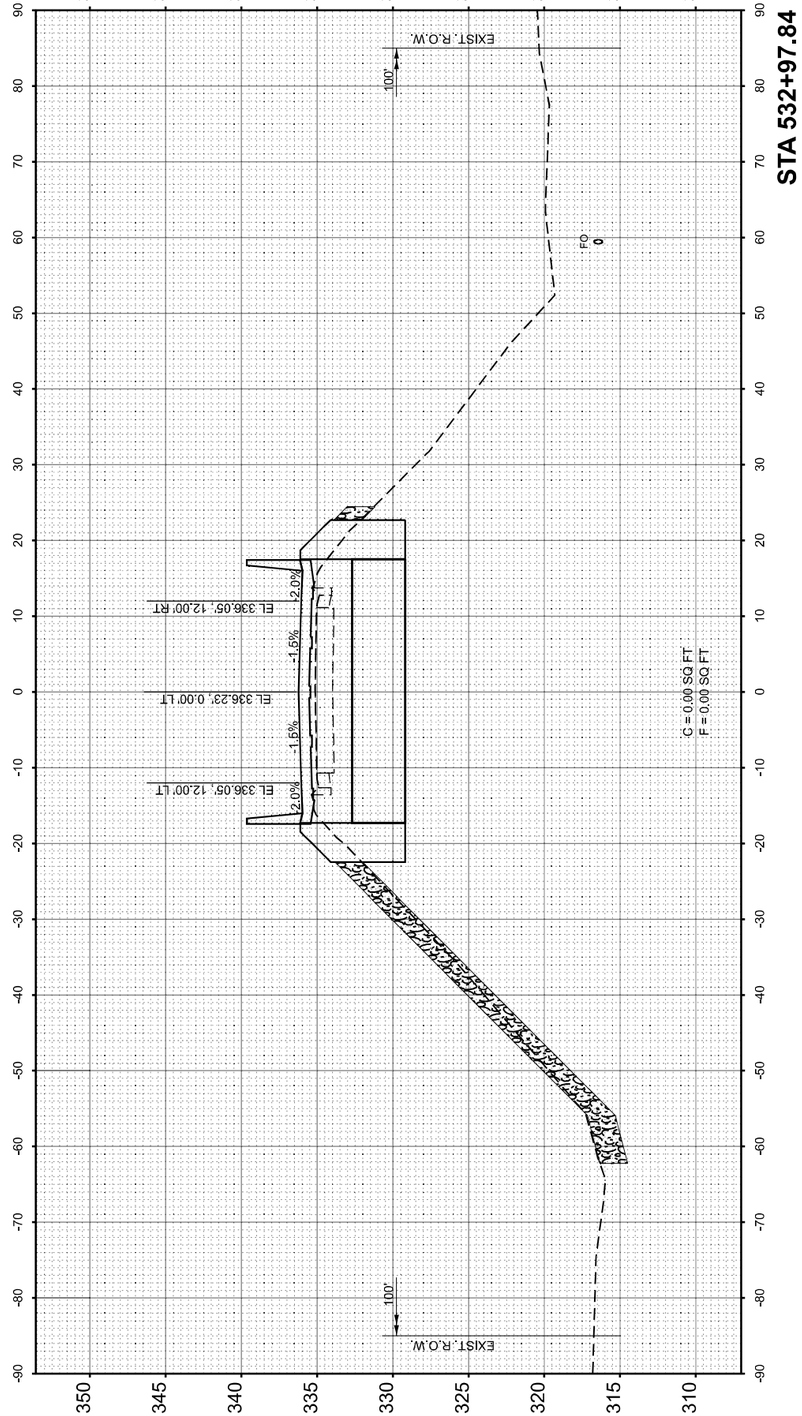
F.A.P. 14 (ILLINOIS ROUTE 3)
CROSS SECTIONS

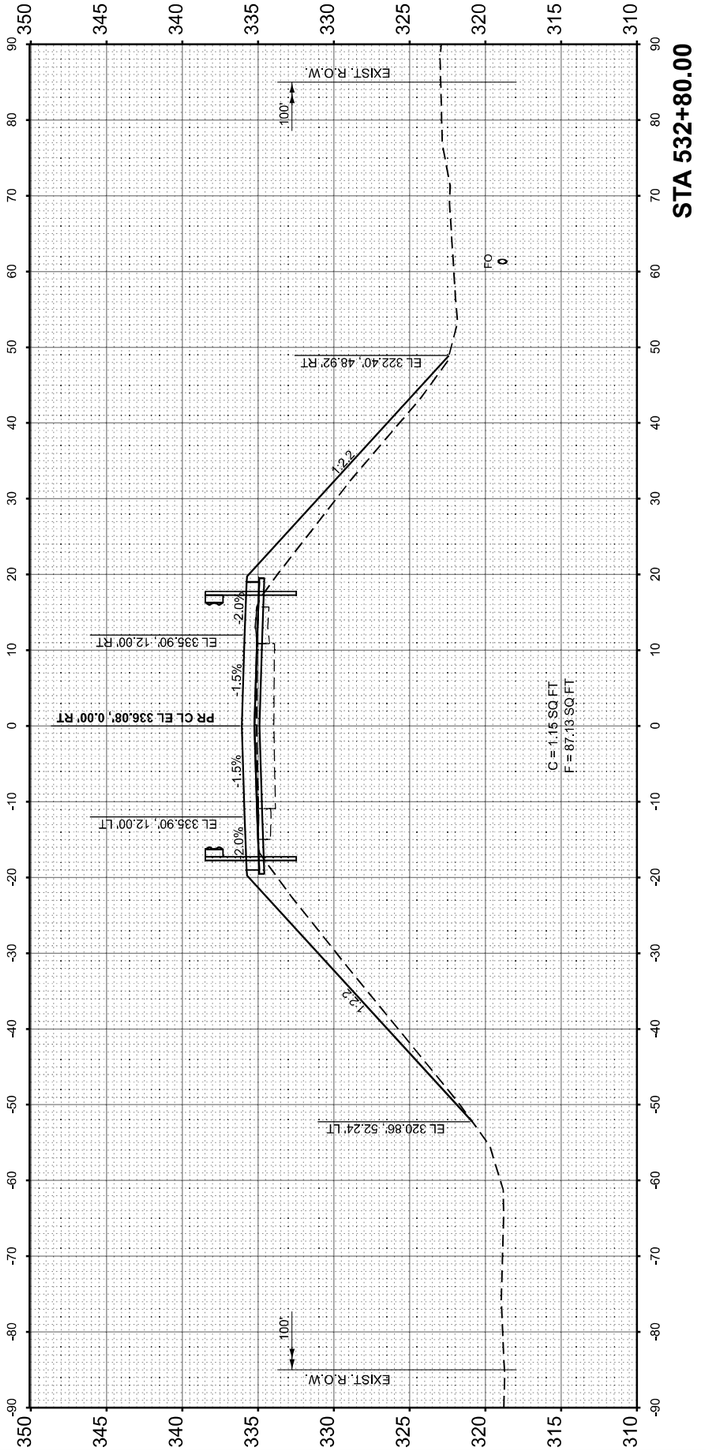
SCALE: 1"=10' | SHEET 6 OF 18 SHEETS | STA. | TO STA.

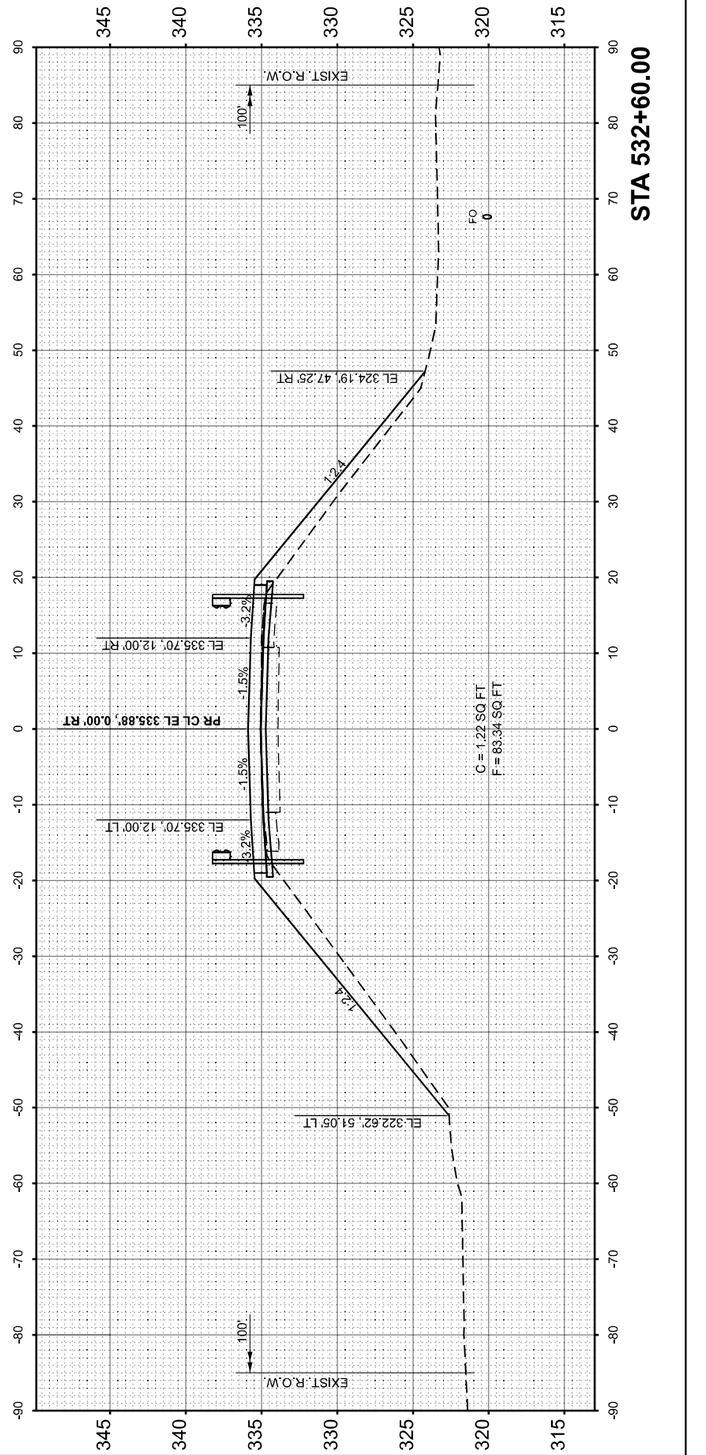
F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
14	136-1(B-2)	ALEXANDER	82	70
		CONTRACT NO. 78791		
	ILLINOIS	FED. AID PROJECT		

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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	DRAWN - MJO	REVISED -	
	CHECKED - JMM	REVISED -	
PLOT DATE = 11/26/2025	DATE - 12/3/2025	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.P. 14 (ILLINOIS ROUTE 3)
CROSS SECTIONS

SCALE: 1"=10' | SHEET 7 OF 18 SHEETS | STA. | TO STA.

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
14	136-1(B-2)	ALEXANDER	82	71
		CONTRACT NO. 78791		
		ILLINOIS	FED. AID PROJECT	

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

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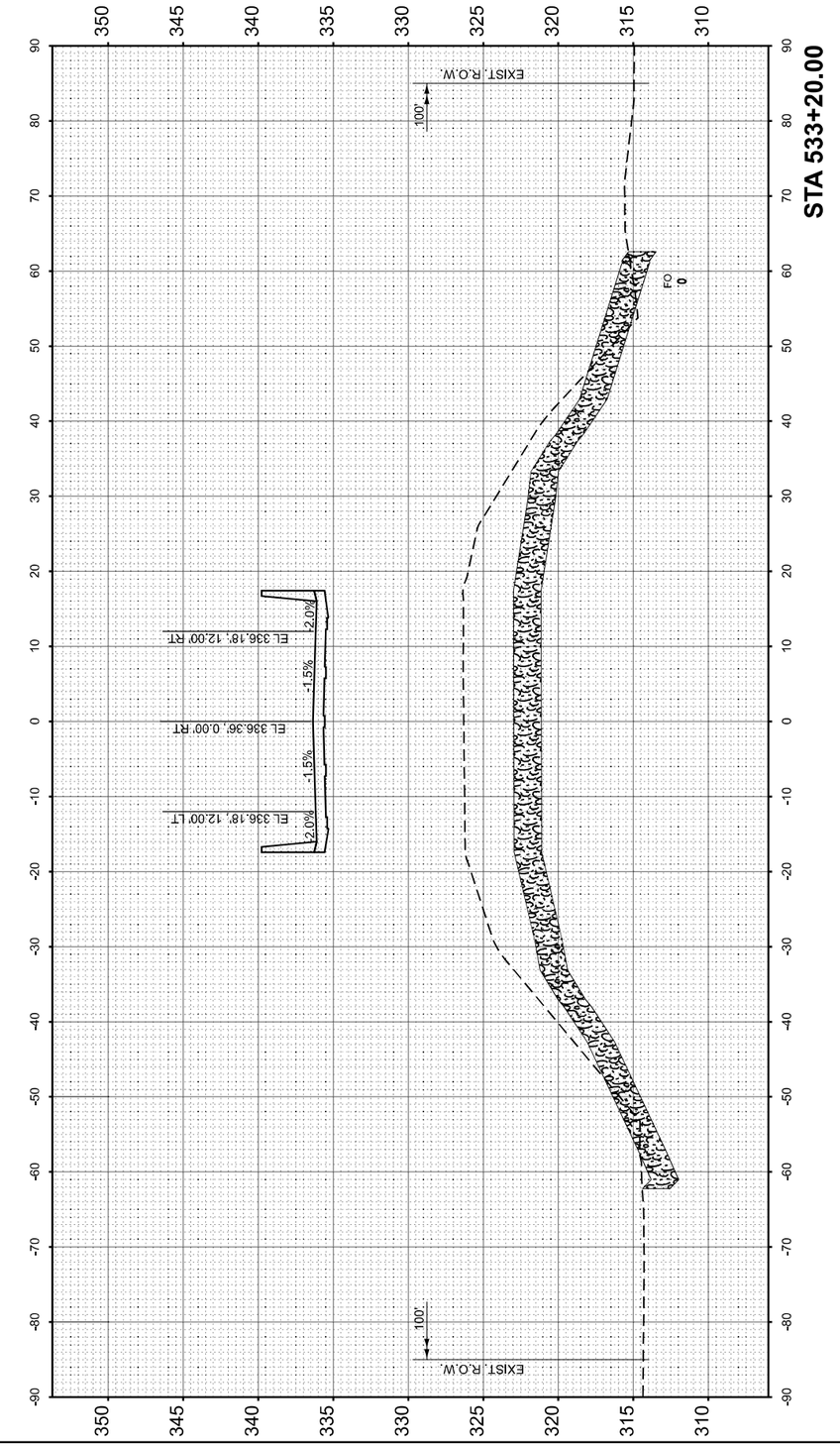
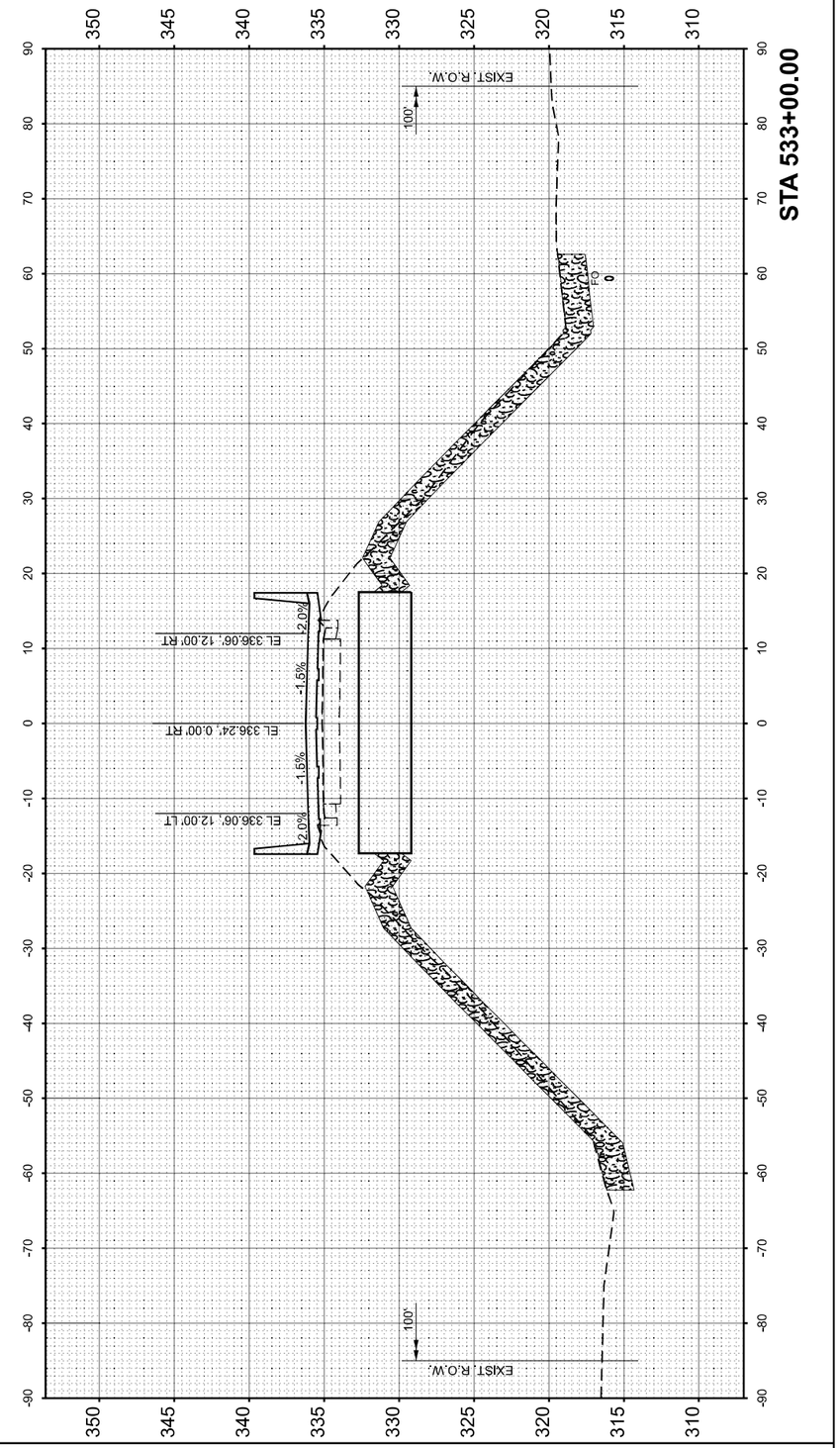
	TEMPLATE		
	AREAS		
NO.	AREAS CHECKED		





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	DRAWN - MJO	REVISED -	
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PLOT DATE = 11/26/2025	DATE - 12/3/2025	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.P. 14 (ILLINOIS ROUTE 3)
CROSS SECTIONS

SCALE: 1"=10' | SHEET 8 OF 18 SHEETS | STA. | TO STA.

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
14	136-1(B-2)	ALEXANDER	82	72
		CONTRACT NO. 78791		
	ILLINOIS	FED. AID PROJECT		

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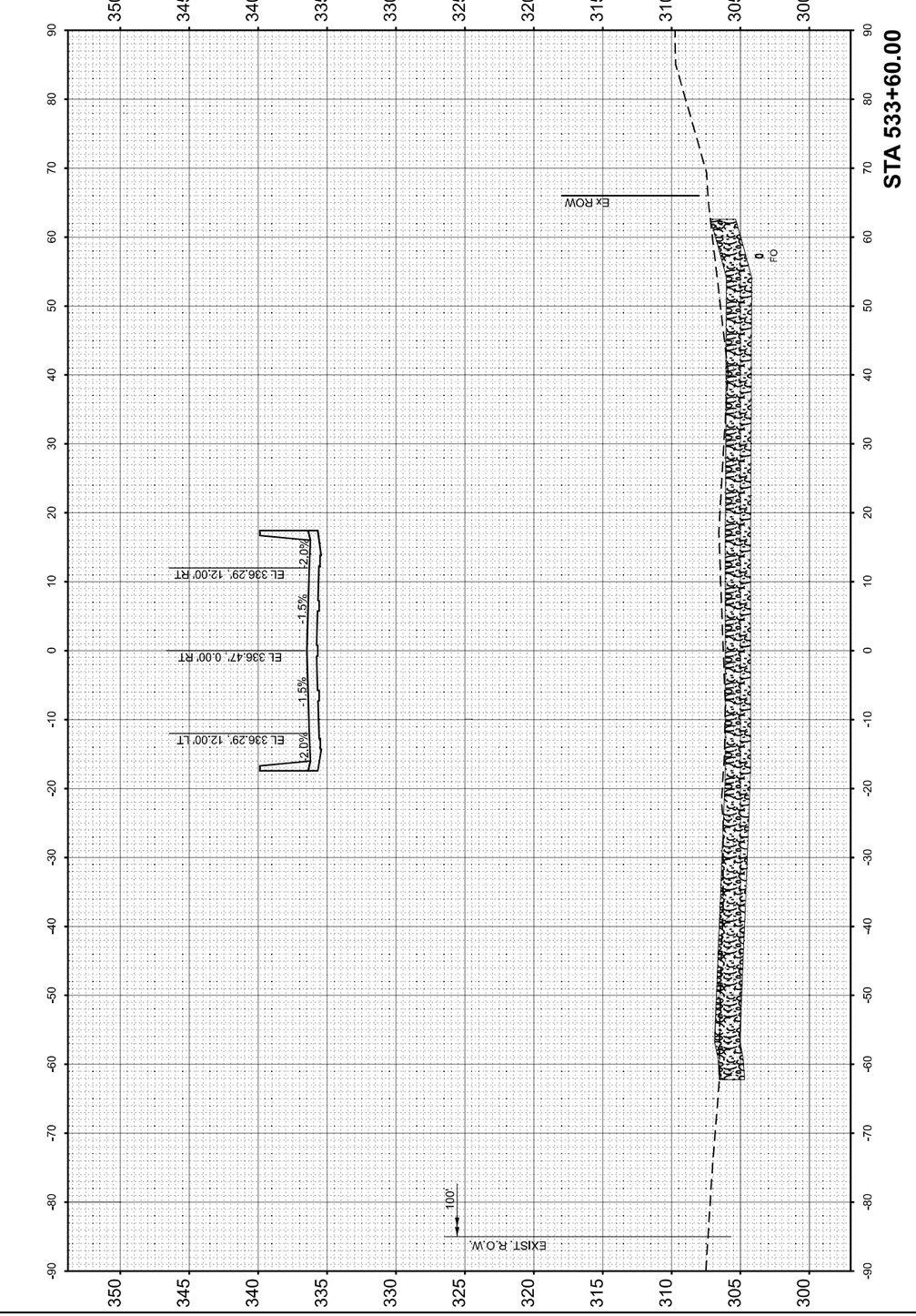
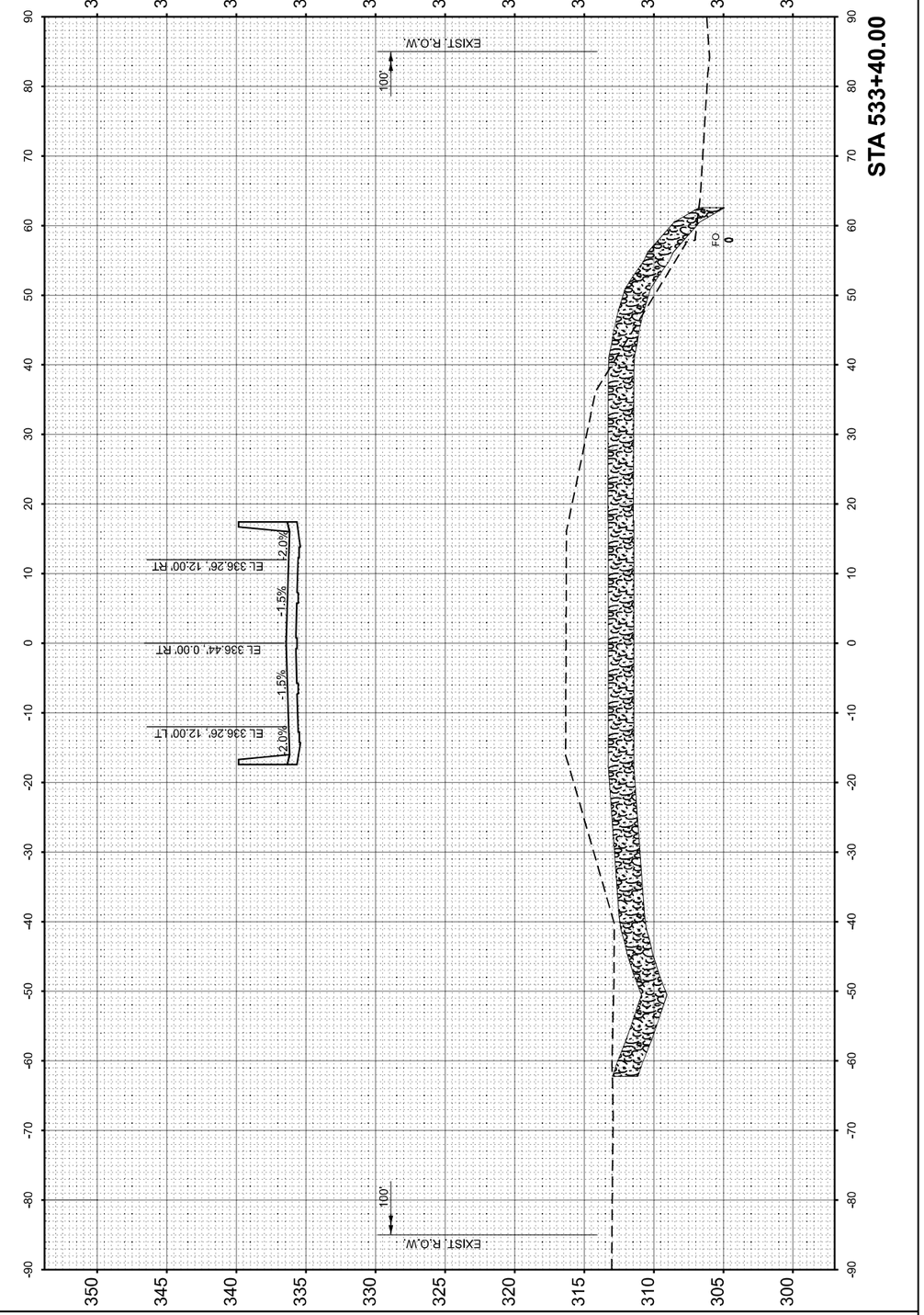
	AREAS		
NO.	AREAS CHECKED		





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

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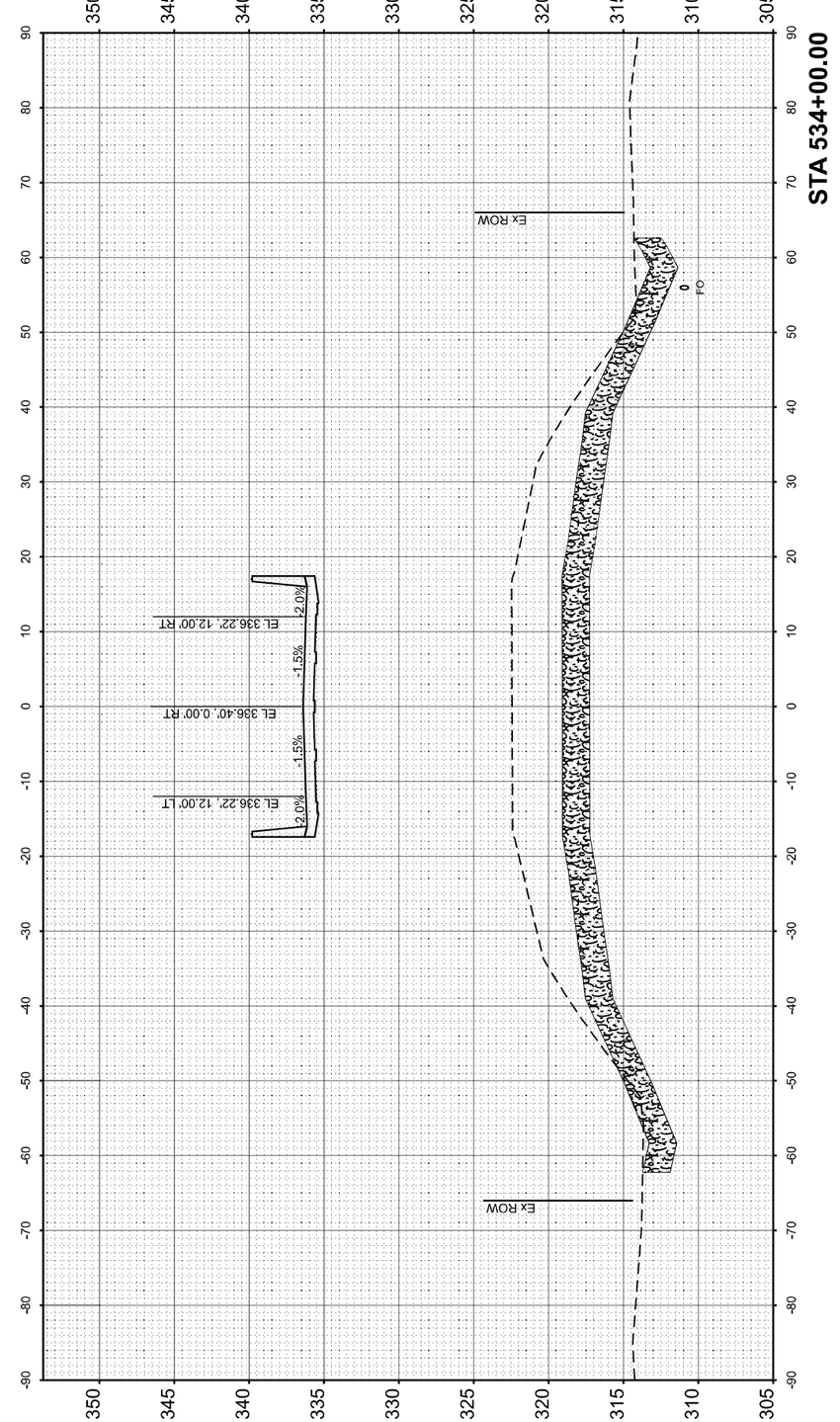
	CHECKED - JMM	REVISED -
PLOT DATE = 12/23/2025	DATE - 12/3/2025	REVISED -

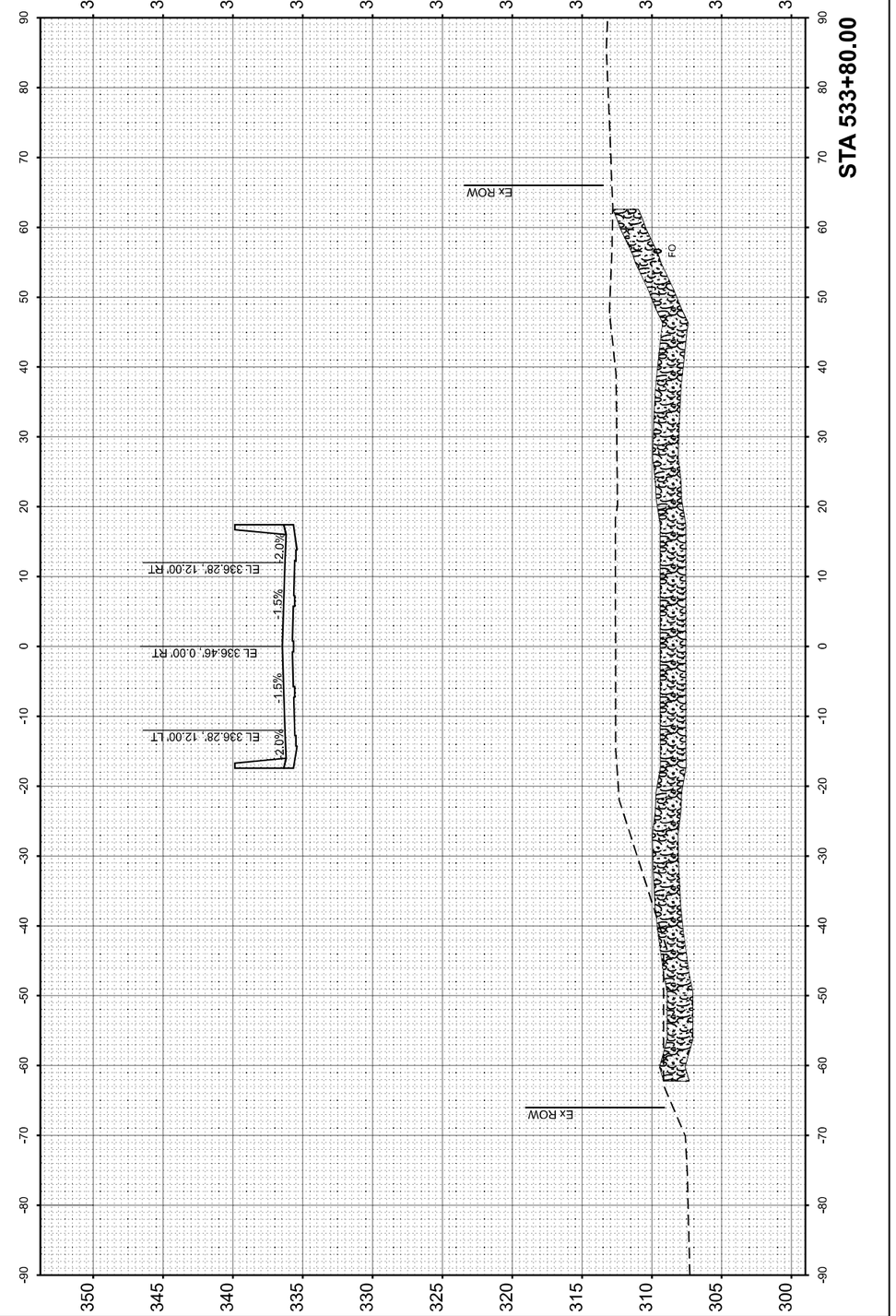
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.P. 14 (ILLINOIS ROUTE 3)
CROSS SECTIONS

SCALE: 1"=10' | SHEET 9 OF 18 SHEETS | STA. | TO STA.

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
14	136-1(B-2)	ALEXANDER	82	73
		CONTRACT NO. 78791		
		ILLINOIS	FED. AID PROJECT	





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

MODEL: SHT - XS - 10
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	DRAWN - MJO	REVISED -
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PLOT DATE = 11/26/2025	DATE - 12/3/2025	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

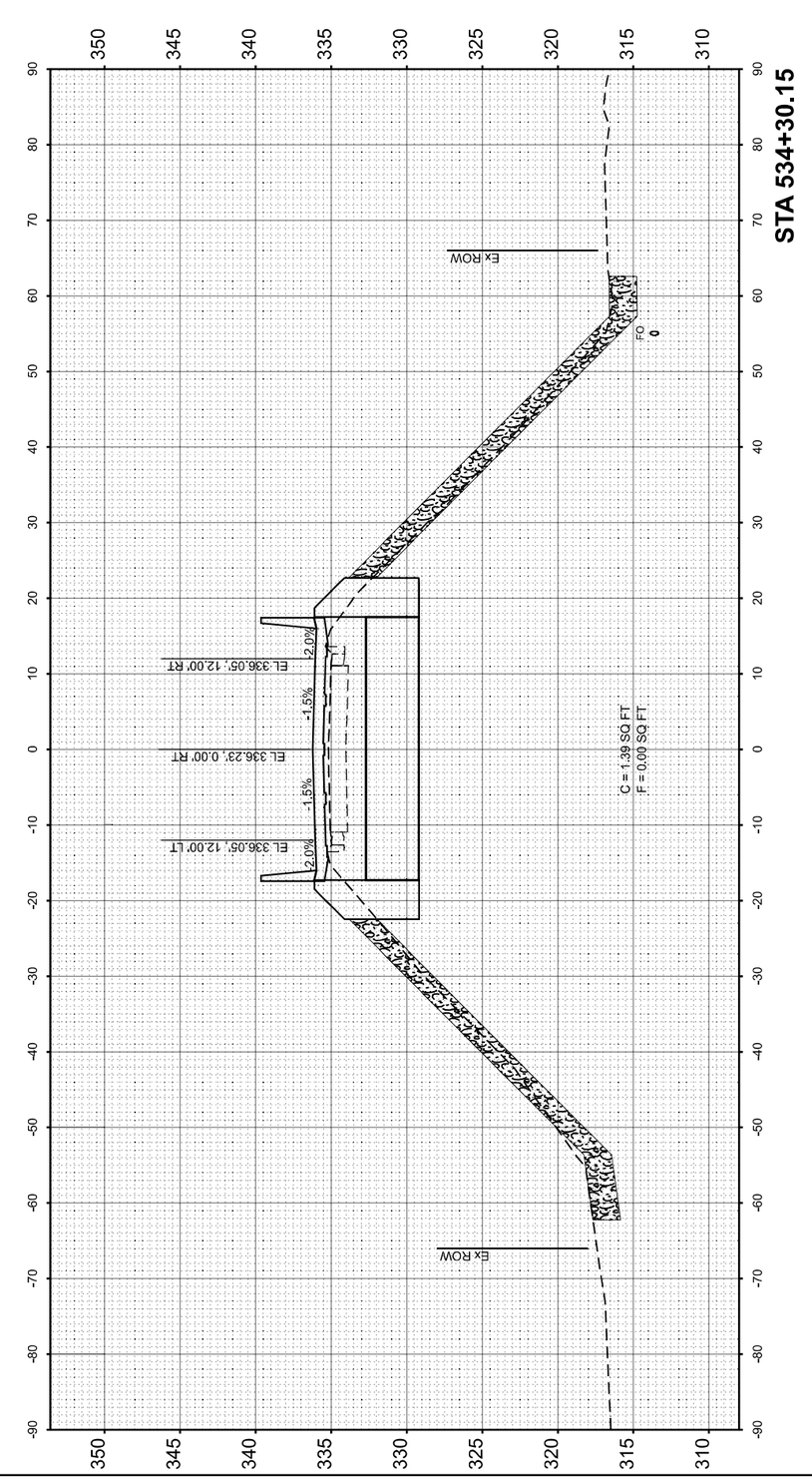
F.A.P. 14 (ILLINOIS ROUTE 3)
CROSS SECTIONS

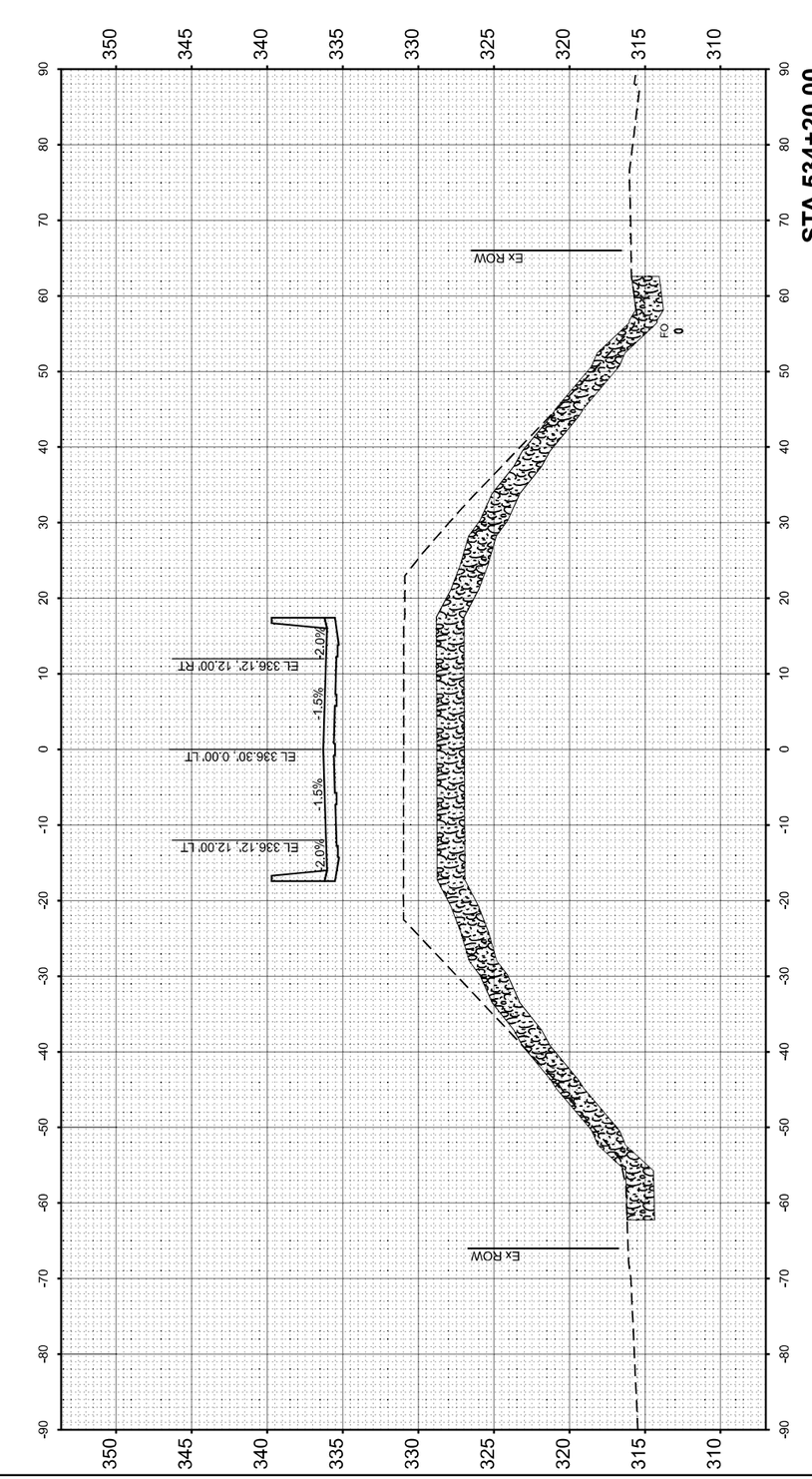
SCALE: 1"=10' | SHEET 10 OF 18 SHEETS | STA. | TO STA.

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
14	136-1(B-2)	ALEXANDER	82	74
		CONTRACT NO. 78791		
	ILLINOIS	FED. AID PROJECT		

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

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





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License No. 184-000613

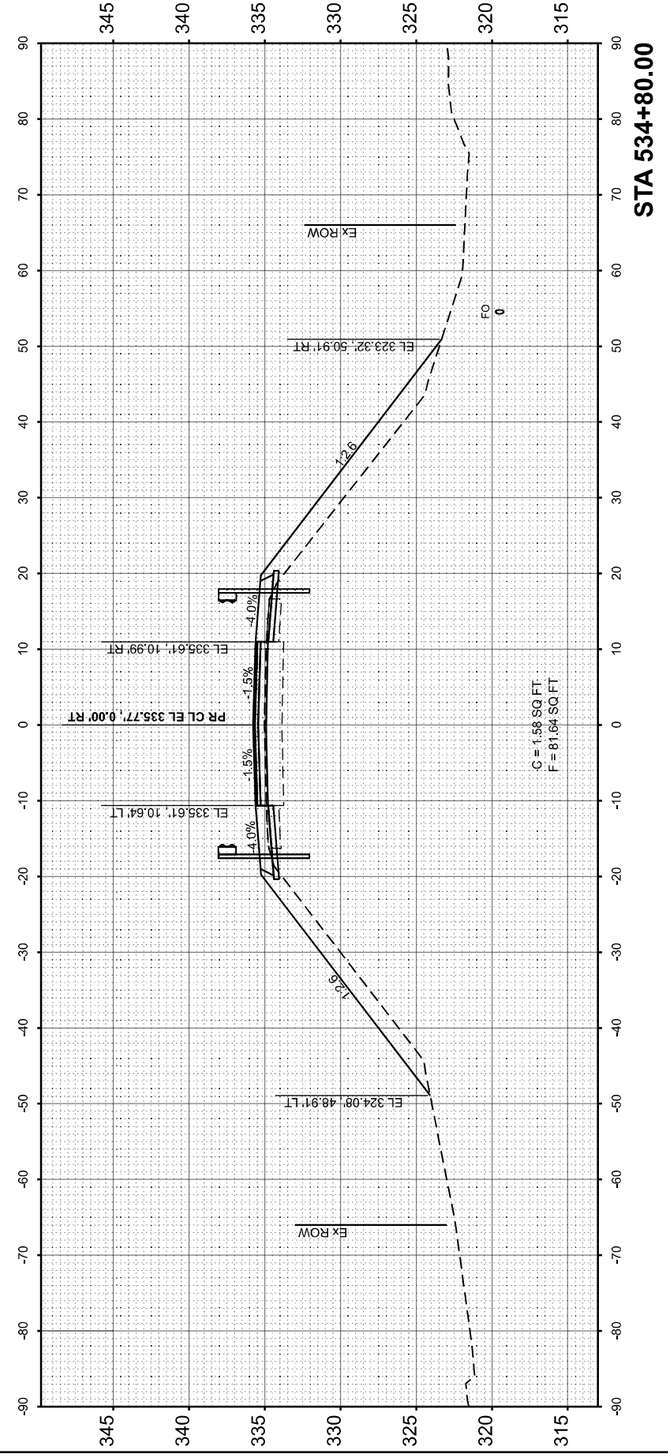
USER NAME = moverbey	DESIGNED - MJO	REVISED -	
	DRAWN - MJO	REVISED -	
	CHECKED - JMM	REVISED -	
PLOT DATE = 11/26/2025	DATE - 12/3/2025	REVISED -	

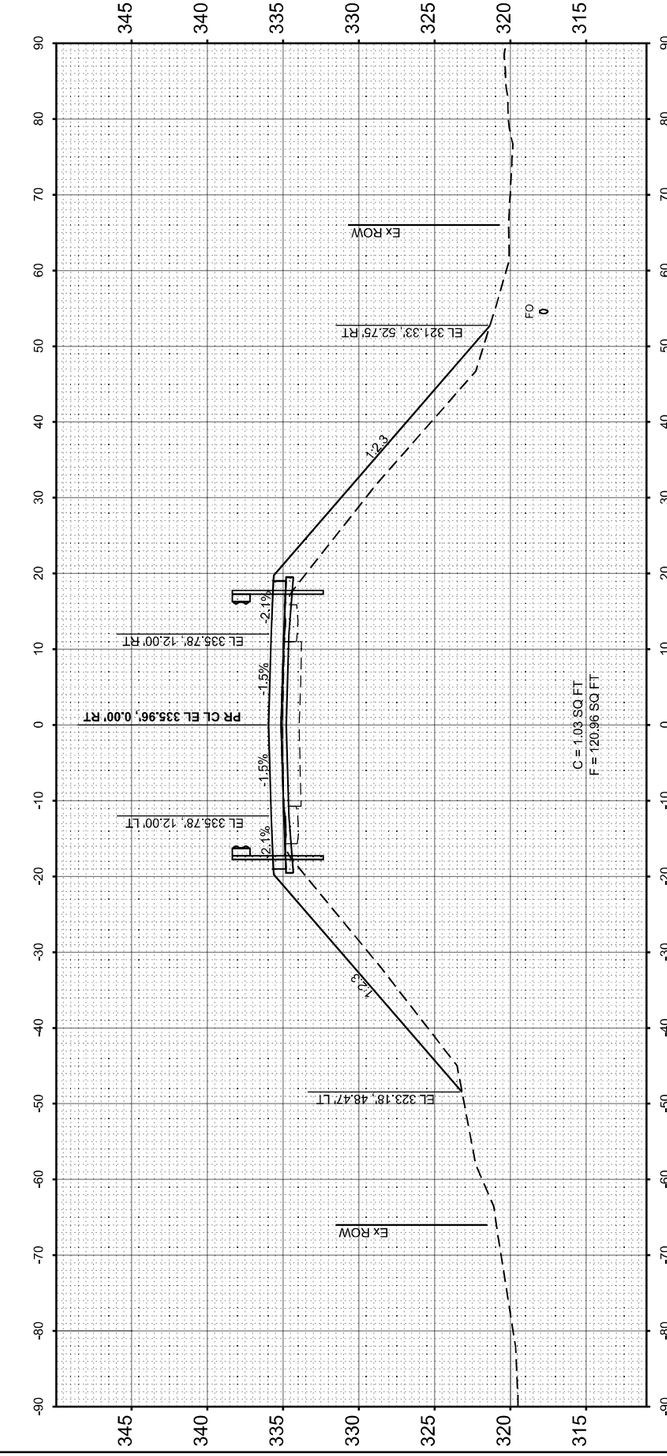
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

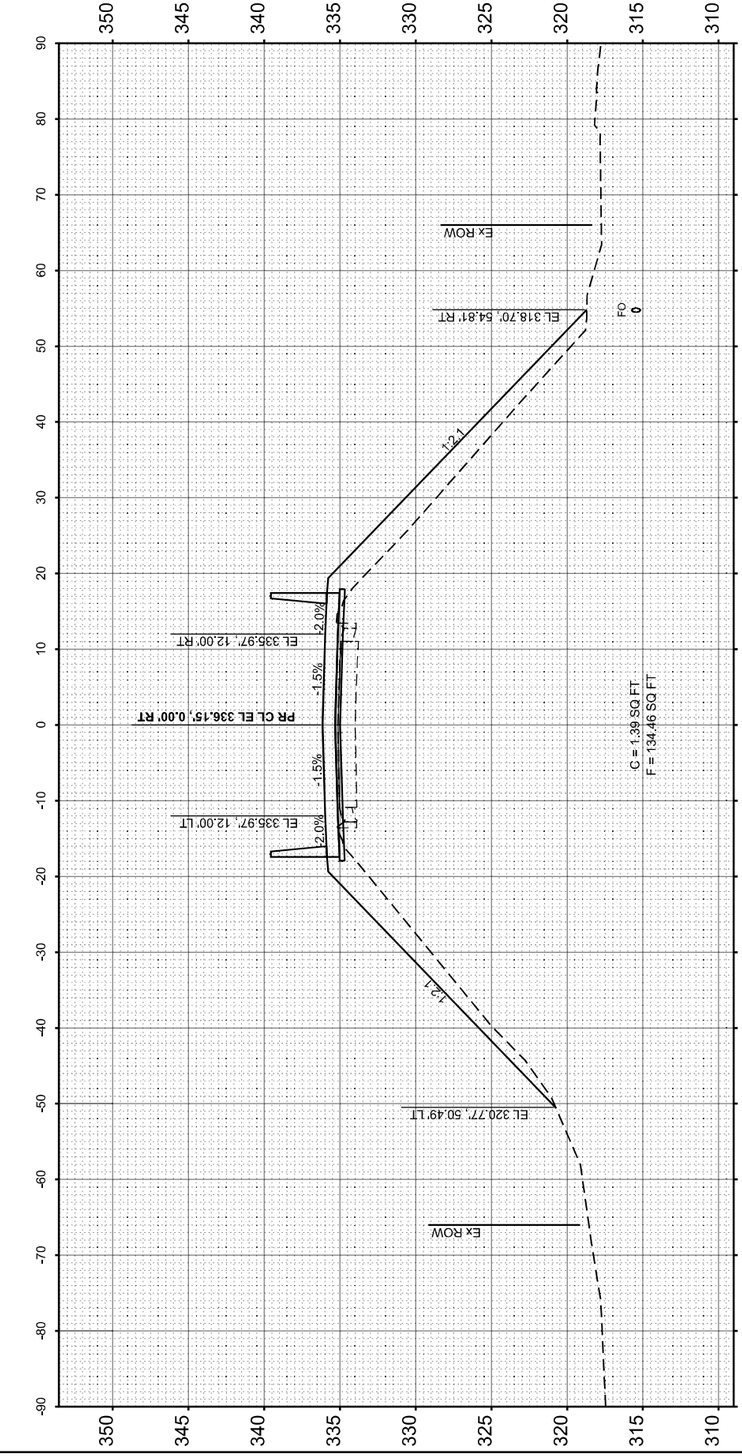
F.A.P. 14 (ILLINOIS ROUTE 3)
CROSS SECTIONS

SCALE: 1"=10' | SHEET 11 OF 18 SHEETS | STA. | TO STA.

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
14	136-1(B-2)	ALEXANDER	82	75
		CONTRACT NO. 78791		
	ILLINOIS	FED. AID PROJECT		







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

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

MODEL: SHT - XS - 12
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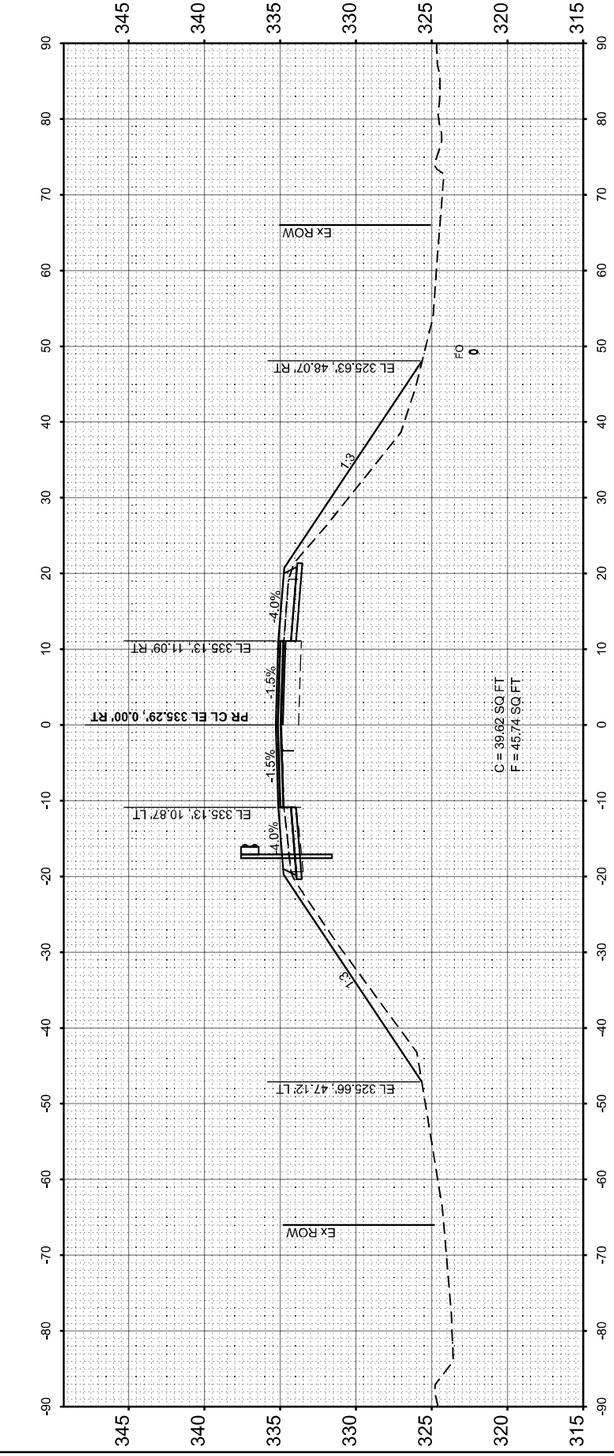
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

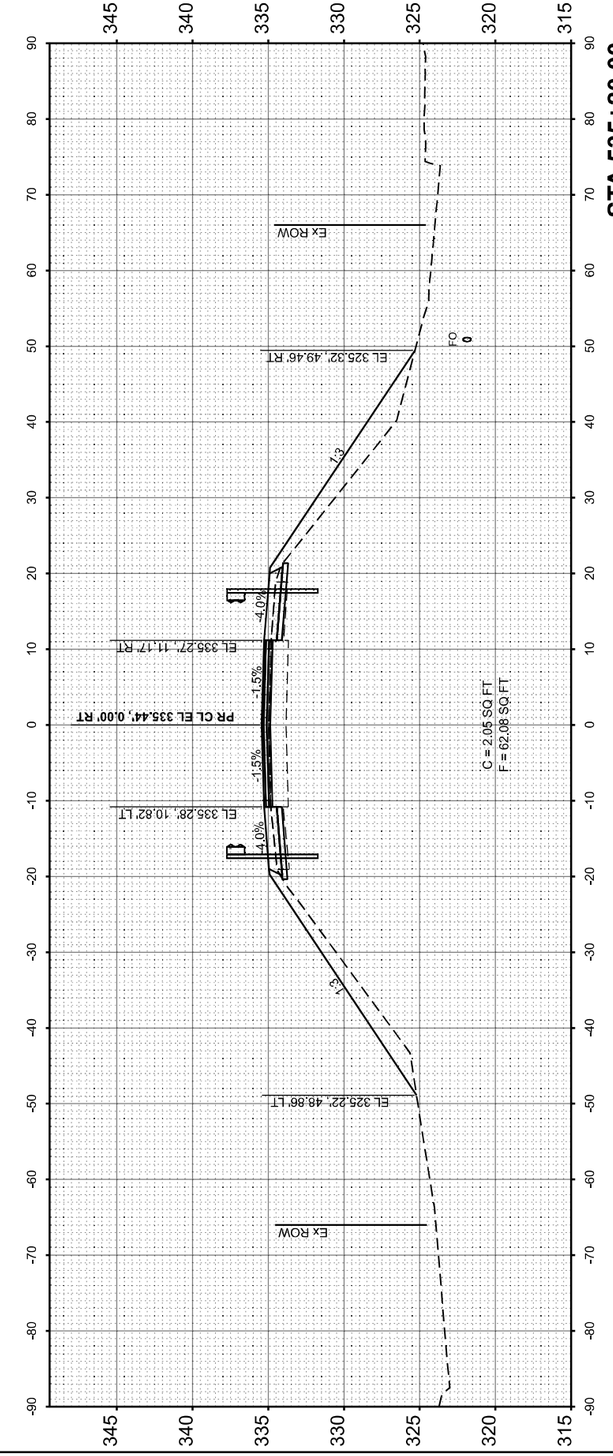
F.A.P. 14 (ILLINOIS ROUTE 3)
CROSS SECTIONS

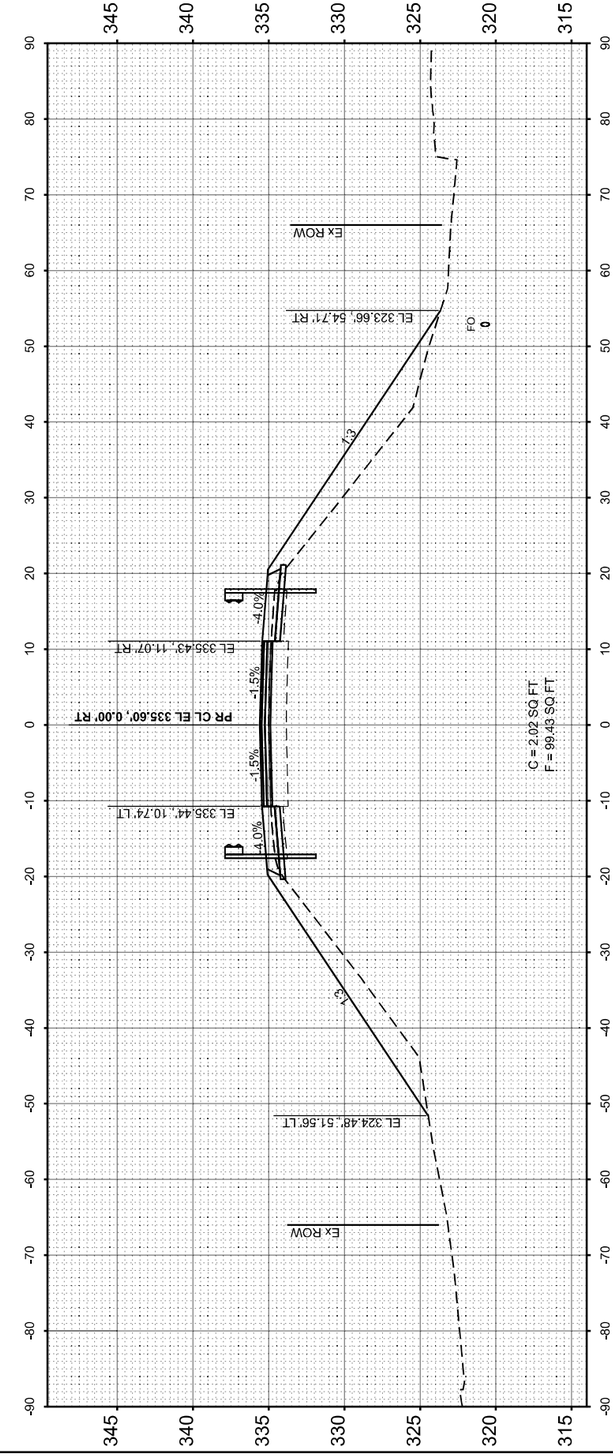
SCALE: 1"=10' | SHEET 12 OF 18 SHEETS | STA. | TO STA.

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
14	136-1(B-2)	ALEXANDER	82	76
		CONTRACT NO. 78791		
		ILLINOIS	FED. AID PROJECT	

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







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

MODEL: SHT - XS - 13
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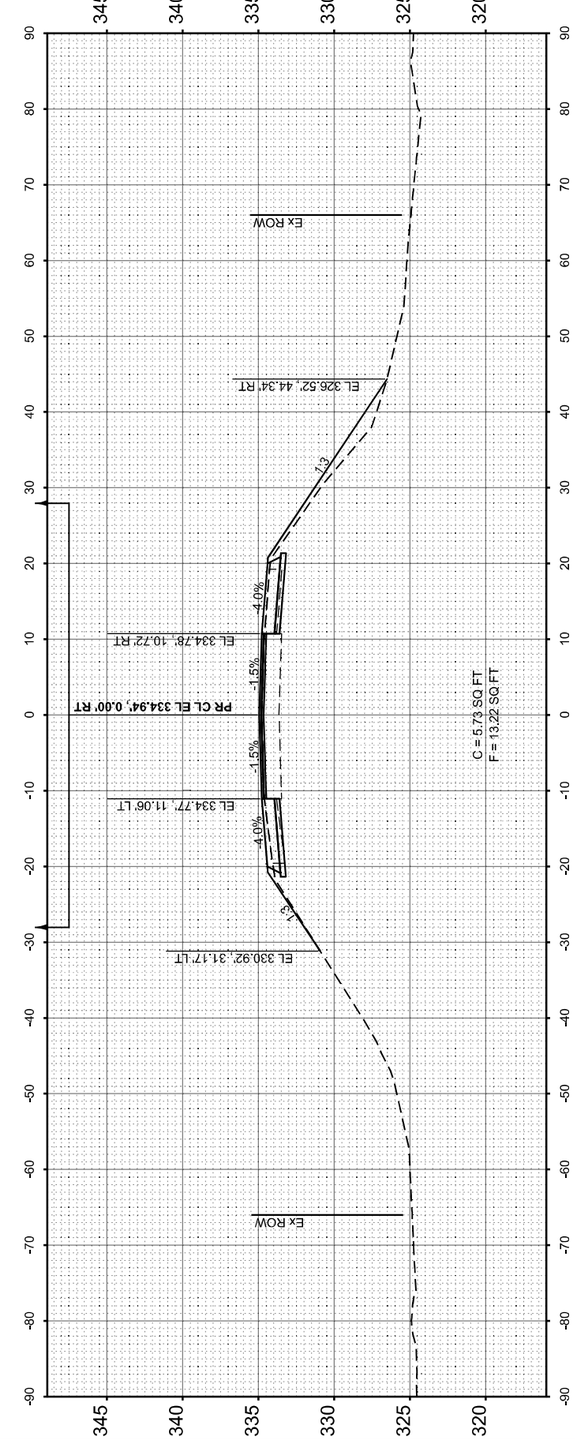
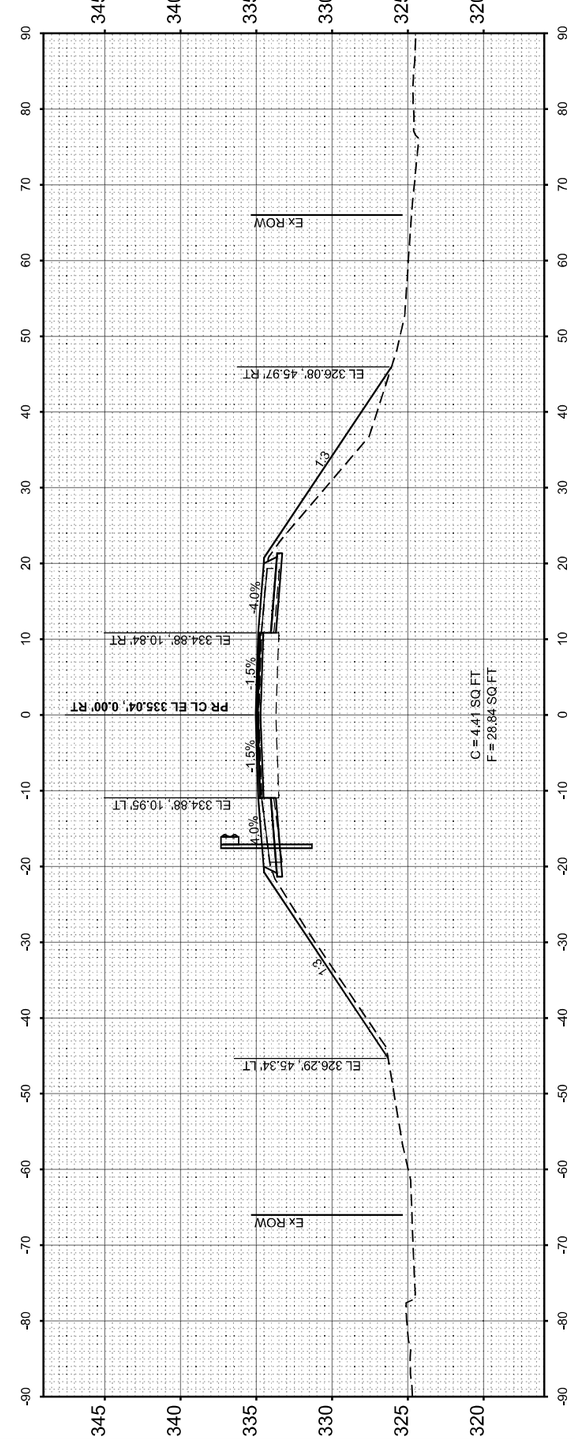
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

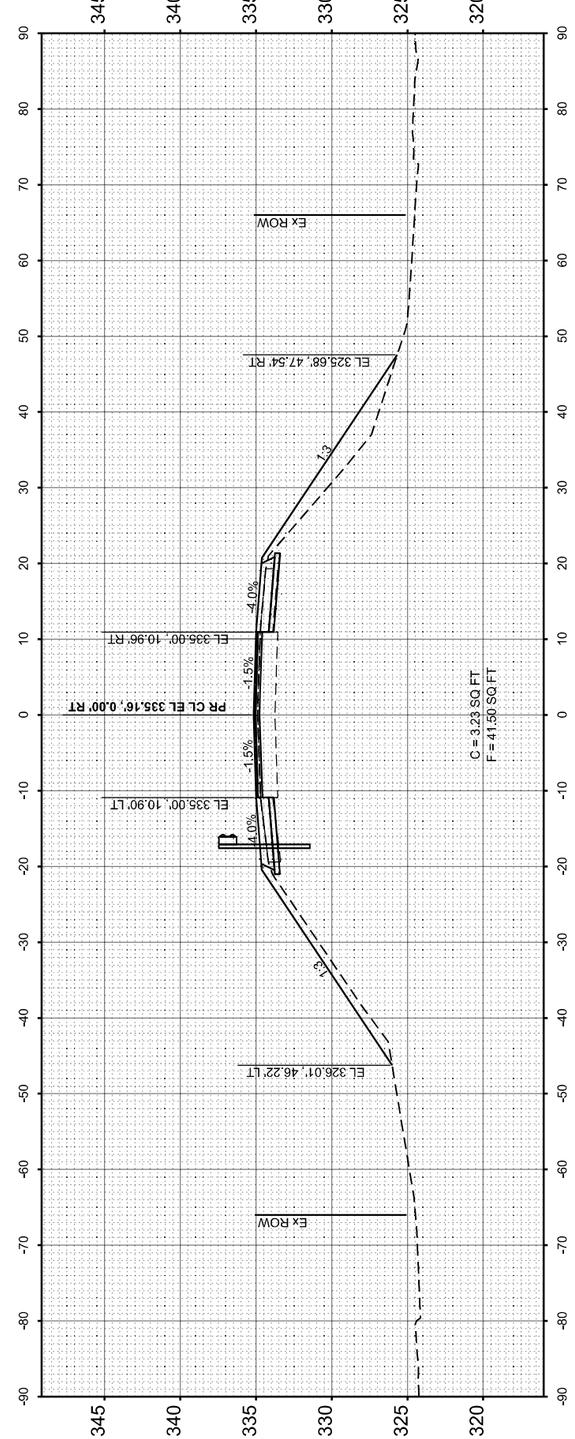
F.A.P. 14 (ILLINOIS ROUTE 3)
CROSS SECTIONS

SCALE: 1"=10' | SHEET 13 OF 18 SHEETS | STA. | TO STA.

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
14	136-1(B-2)	ALEXANDER	82	77
		CONTRACT NO. 78791		
		ILLINOIS	FED. AID PROJECT	







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

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

MODEL: SHT - XS - 14
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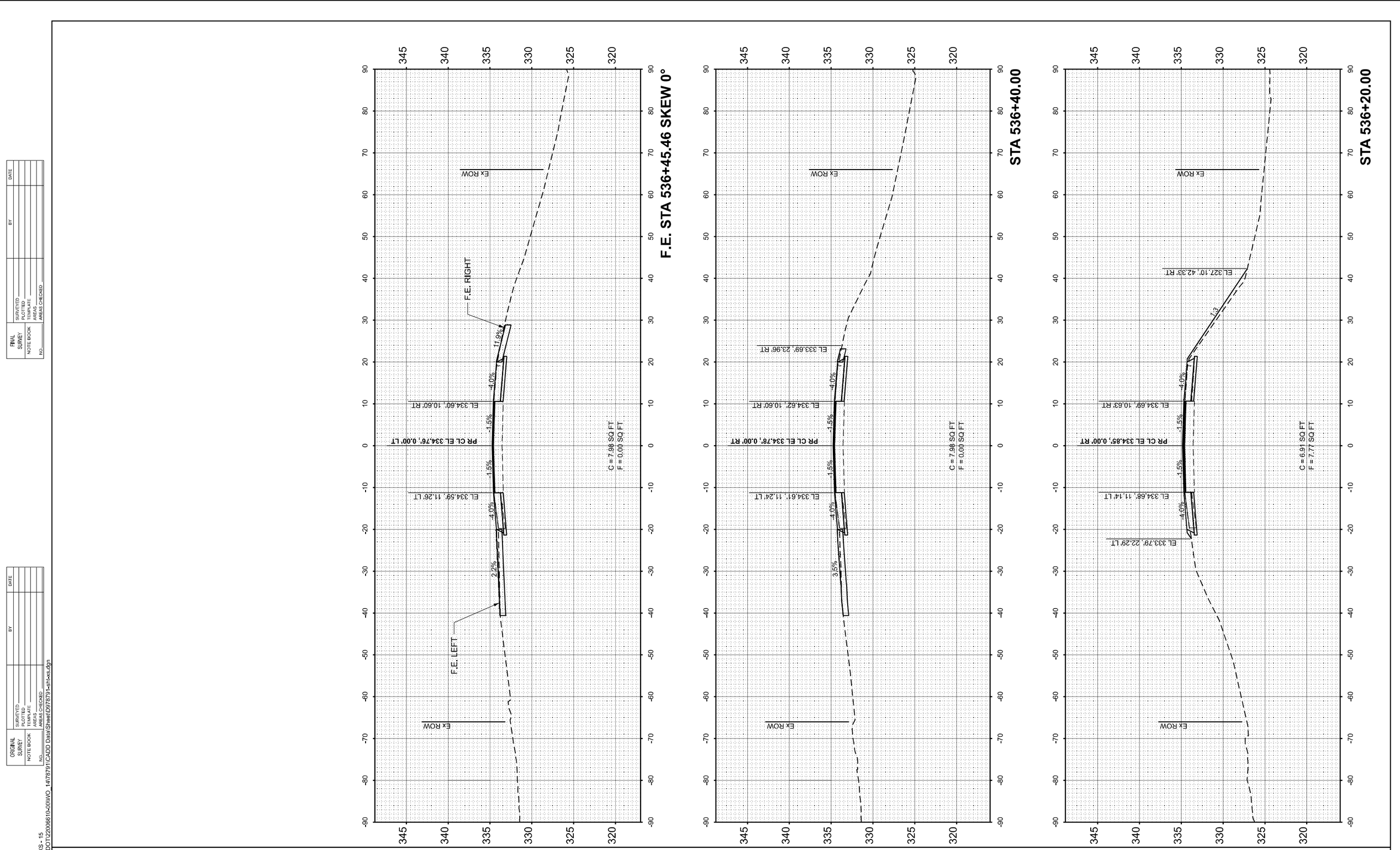
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.P. 14 (ILLINOIS ROUTE 3)
CROSS SECTIONS

SCALE: 1"=10' | SHEET 14 OF 18 SHEETS | STA. | TO STA.

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
14	136-1(B-2)	ALEXANDER	82	78
		CONTRACT NO. 78791		
		ILLINOIS FED. AID PROJECT		



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

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

MODEL: SHT - XS - 15
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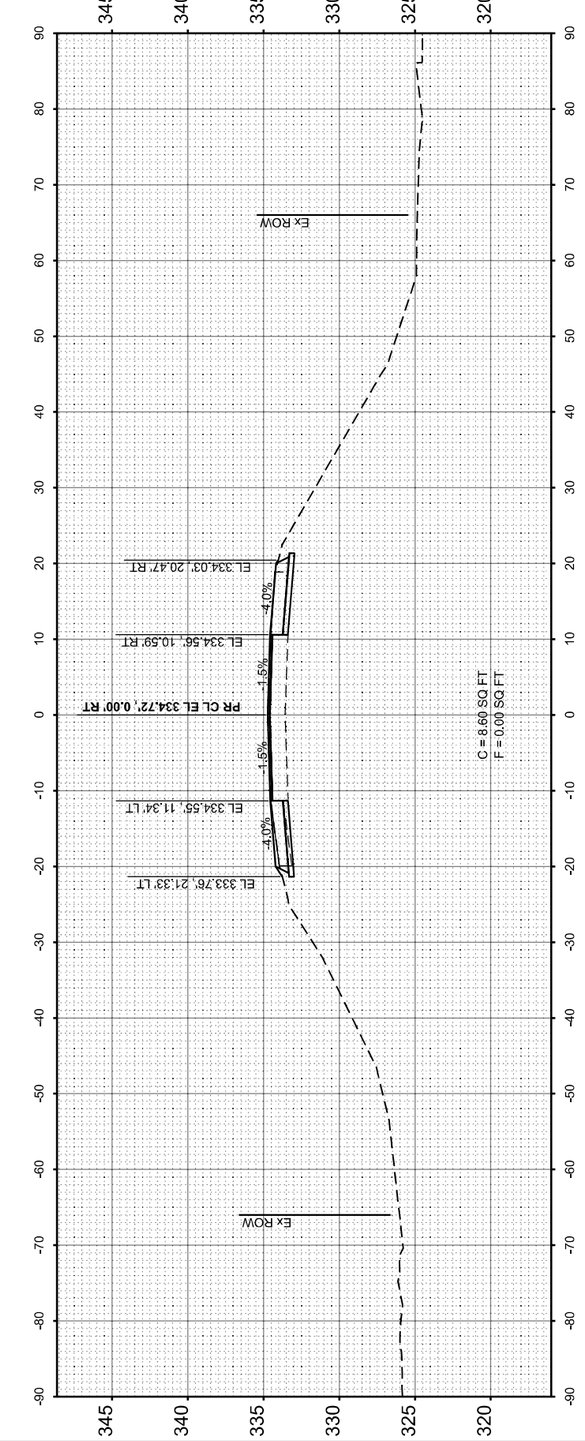
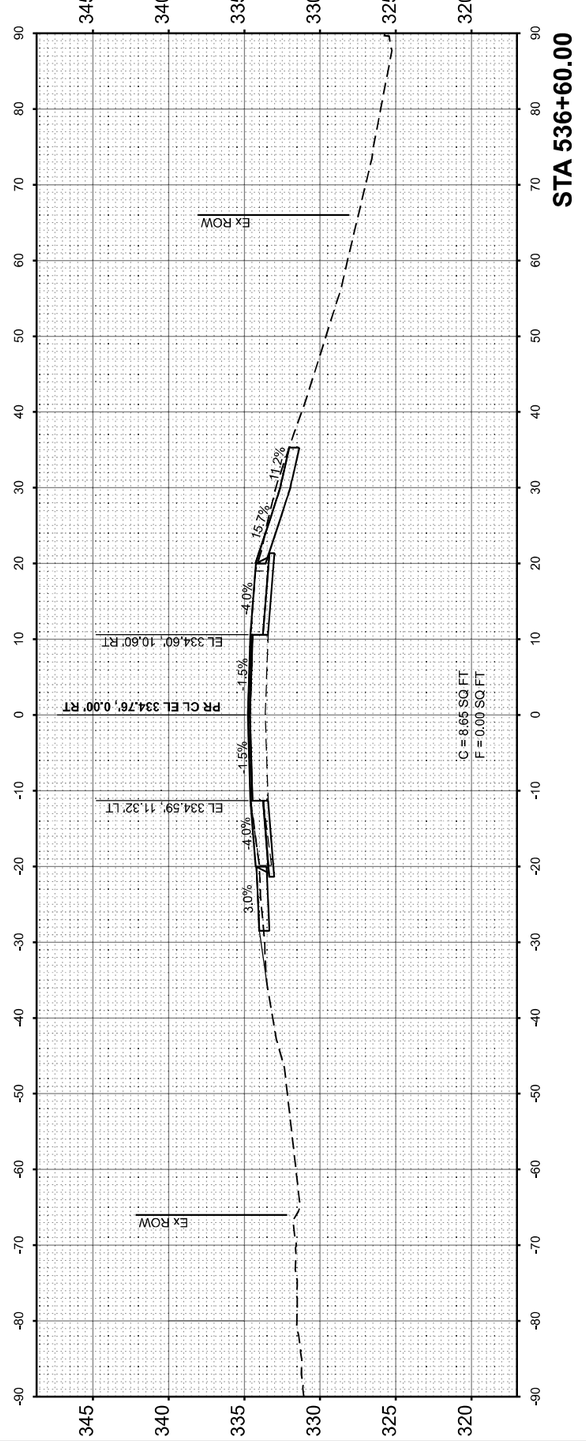
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

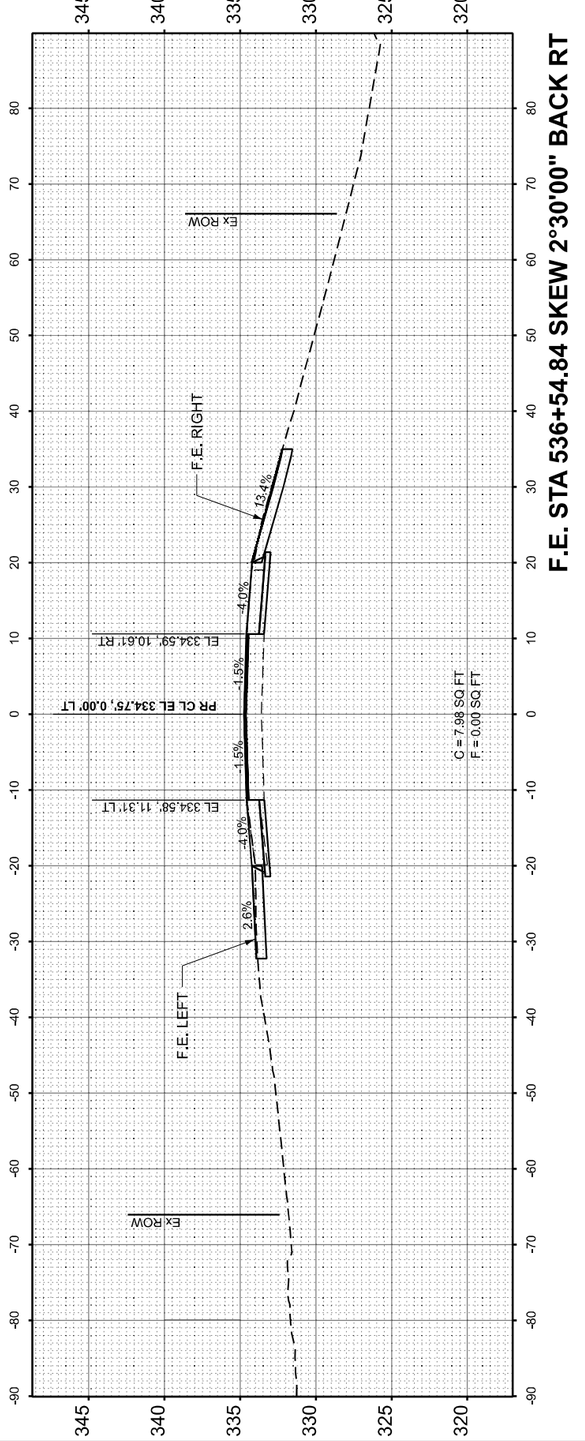
F.A.P. 14 (ILLINOIS ROUTE 3)
CROSS SECTIONS

SCALE: 1"=10' | SHEET 15 OF 18 SHEETS | STA. | TO STA.

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
14	136-1(B-2)	ALEXANDER	82	79
		CONTRACT NO. 78791		
	ILLINOIS	FED. AID PROJECT		







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

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

MODEL: SHT - XS - 16
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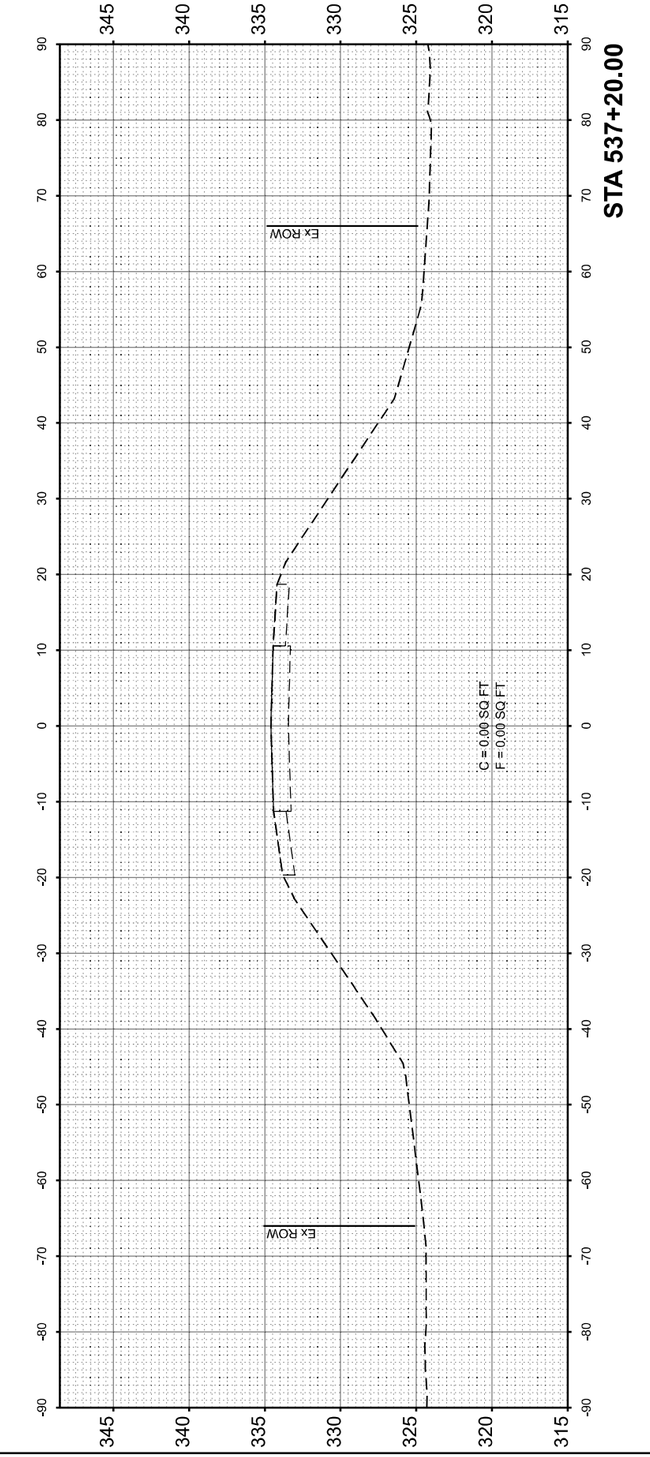
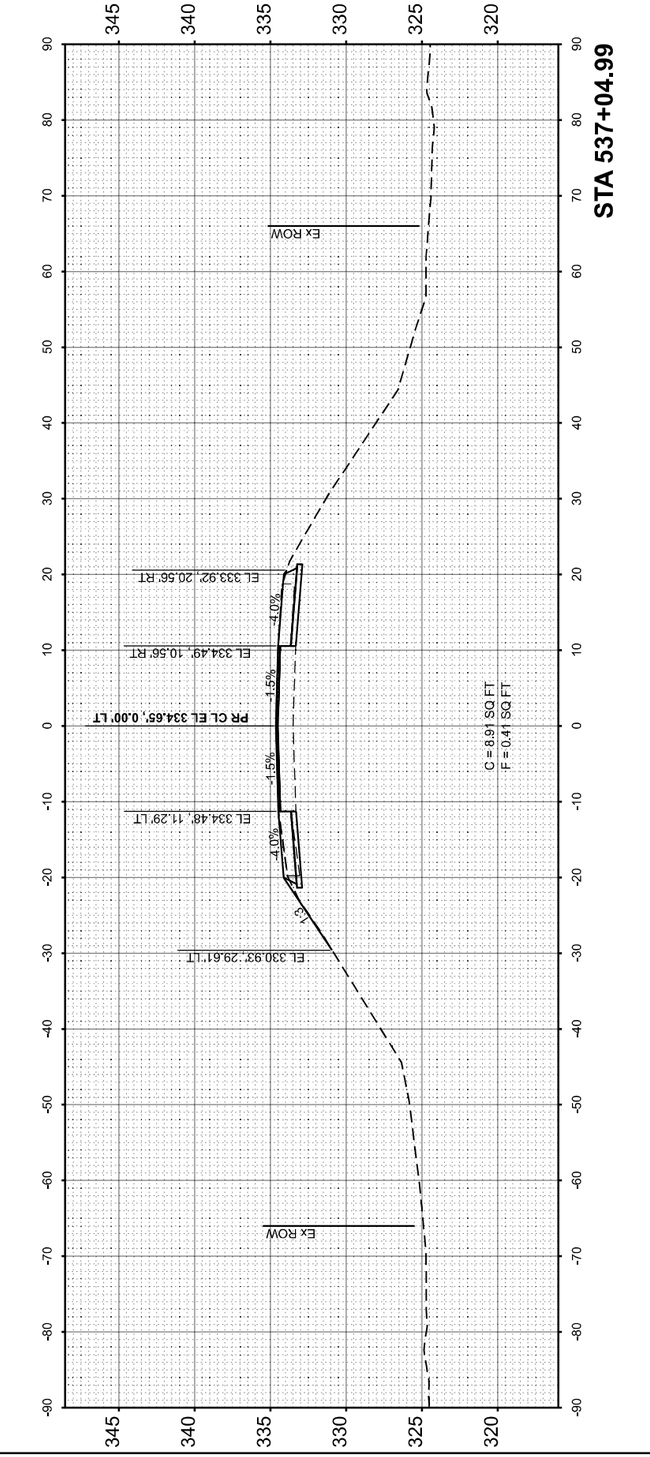
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

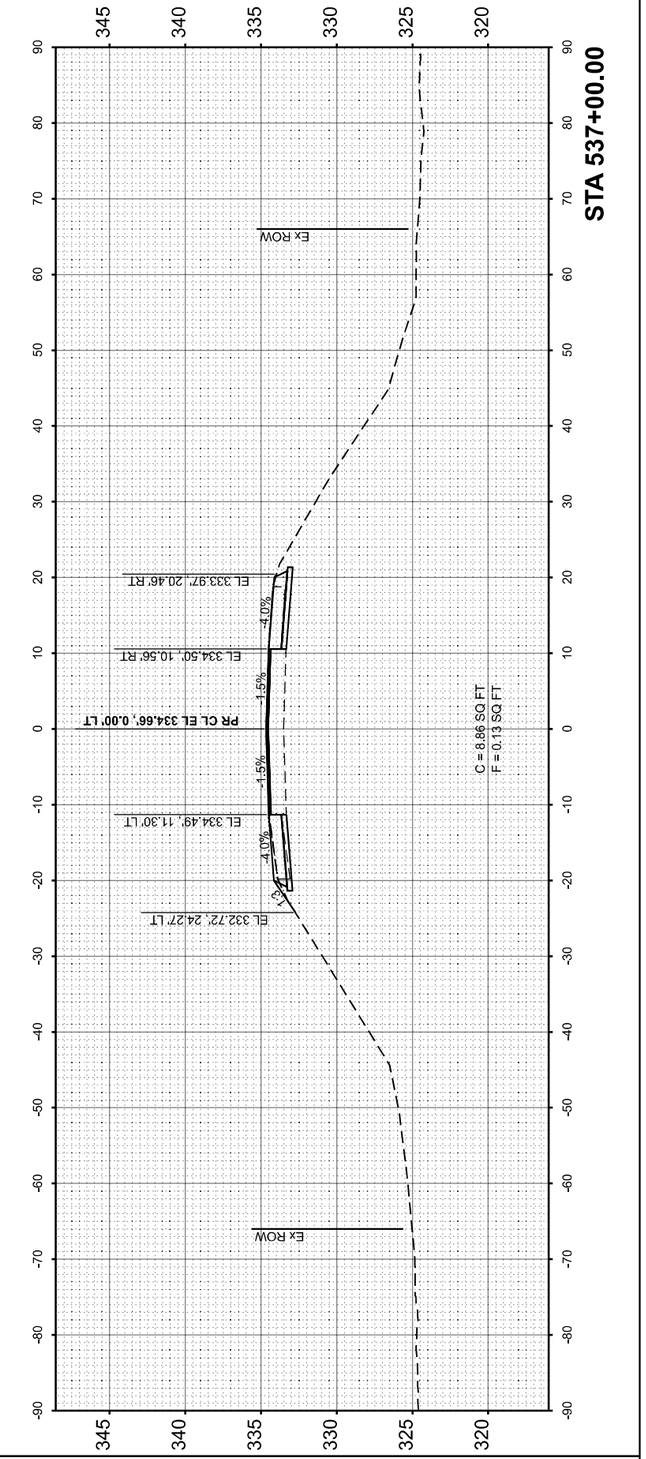
F.A.P. 14 (ILLINOIS ROUTE 3)
CROSS SECTIONS

SCALE: 1"=10' | SHEET 16 OF 18 SHEETS | STA. | TO STA.

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
14	136-1(B-2)	ALEXANDER	82	80
		CONTRACT NO. 78791		
	ILLINOIS	FED. AID PROJECT		







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

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

MODEL: SHT - XS - 17
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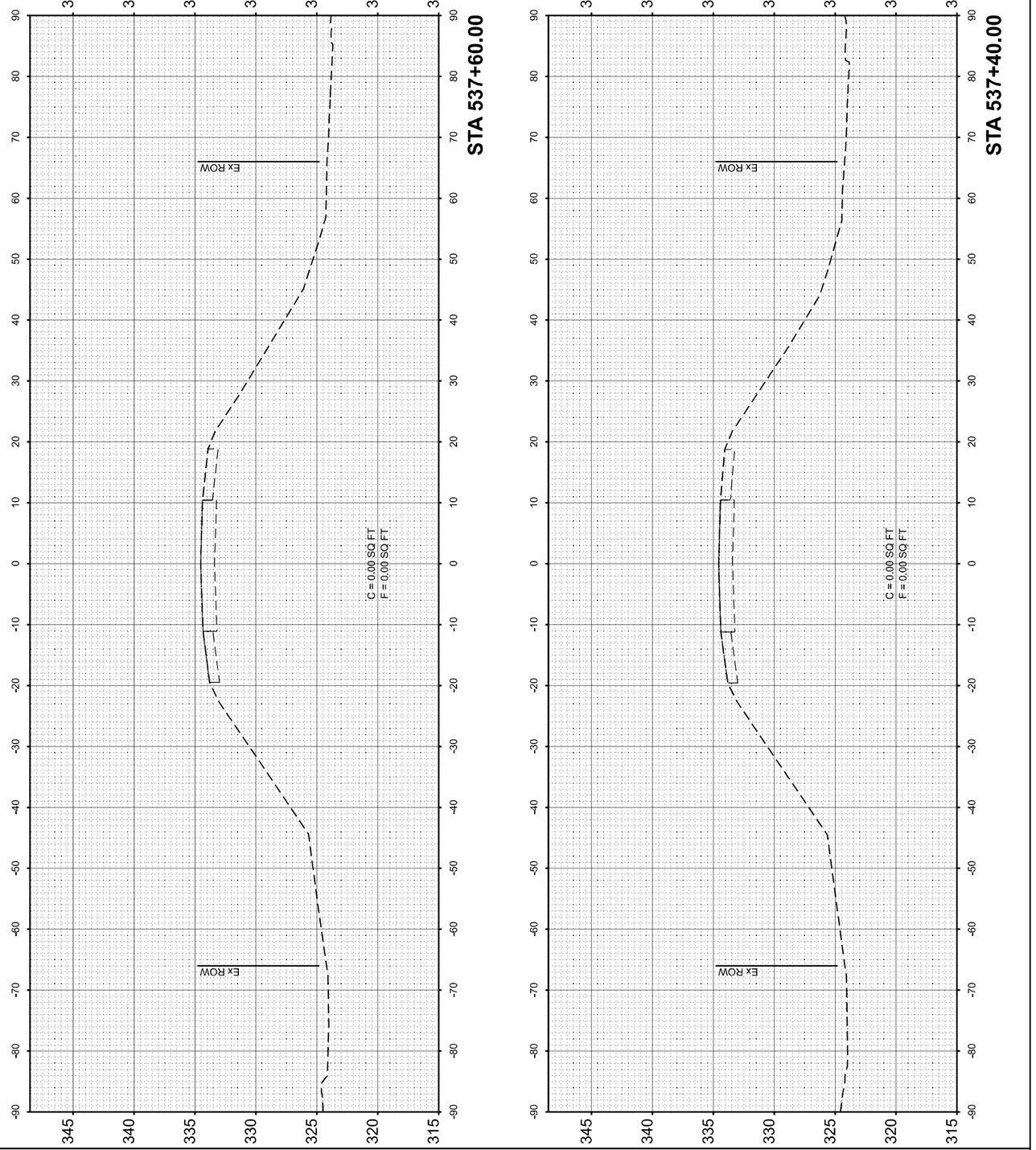
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.P. 14 (ILLINOIS ROUTE 3)
CROSS SECTIONS

SCALE: 1"=10' | SHEET 17 OF 18 SHEETS | STA. | TO STA.

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
14	136-1(B-2)	ALEXANDER	82	81
		CONTRACT NO. 78791		
	ILLINOIS	FED. AID PROJECT		



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

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

MODEL: SHT - XS - 18
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.P. 14 (ILLINOIS ROUTE 3)
CROSS SECTIONS

SCALE: 1"=10' | SHEET 18 OF 18 SHEETS | STA. | TO STA.

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
14	136-1(B-2)	ALEXANDER	82	82
		CONTRACT NO. 78791		
	ILLINOIS	FED. AID PROJECT		