

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
327	(51-24HB-1)BR	LAWRENCE	87	1
		ILLINOIS	CONTRACT NO. 74A09	

FOR INDEX OF SHEETS, SEE SHEET NO. 2

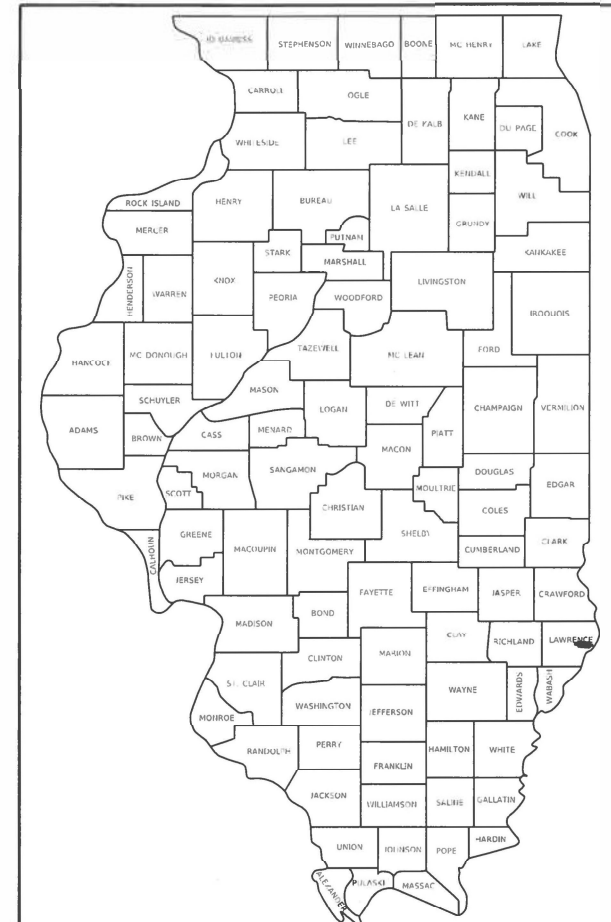
ADT: 8050 (2021)

PROPOSED HIGHWAY PLANS

FAP ROUTE 327 (US 50)
SECTION (51-24HB-1)BR
PROJECT HBF-P-WNN1(241)
BRIDGE SUPERSTRUCTURE REPLACEMENT
LAWRENCE COUNTY

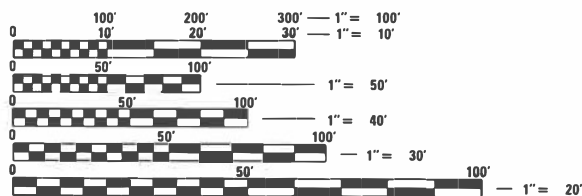
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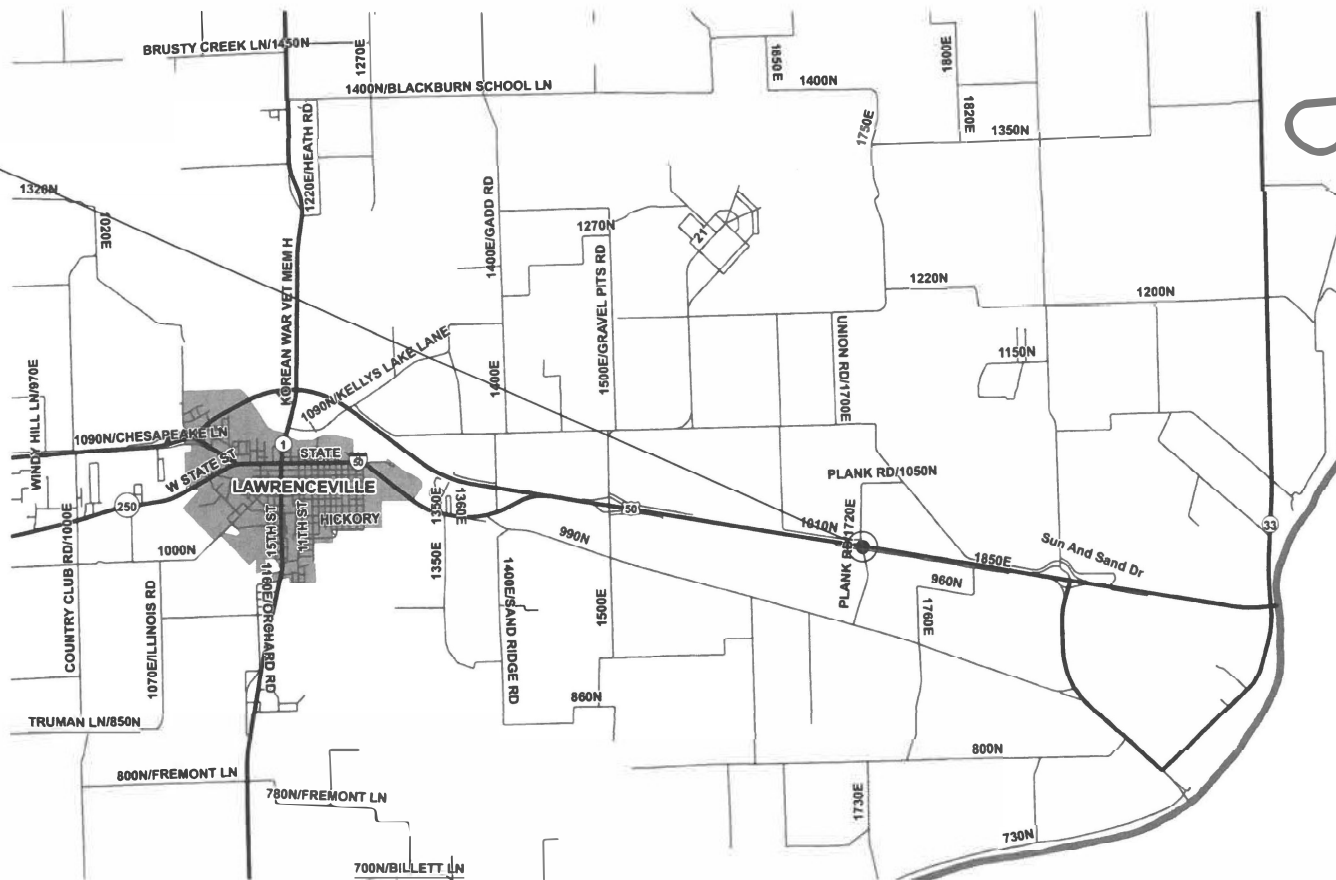
LOCATION OF SECTION INDICATED THIS: —

PROJECT LOCATION
SN 051-0022
SN 051-0023



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 EXCAVATORS
1-800-892-0123
OR 811



GROSS LENGTH = 350.00 FT. = 0.066 MILE
NET LENGTH = 350.00 FT. = 0.066 MILE

PROJECT ENGINEER: MATT BOWER
PROJECT MANAGER: DALTON LANE

CONTRACT NO. 74A09

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBMITTED OCTOBER 5 2023
John P. Mynick
REGIONAL ENGINEER

December 8, 2023
Scott A. Etk
ENGINEER OF DESIGN AND ENVIRONMENT

December 8, 2023
Stephen M. Smith
DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

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OF THE STATE OF ILLINOIS

GENERAL NOTES

THIS PROJECT IS LOCATED ON US 50 IN LAWRENCE COUNTY. THE WORK INCLUDED IN THIS PROJECT IS SUPERSTRUCTURE REPLACEMENT, NEW ABUTMENTS, NEW APPROACH PAVEMENTS, SHOULDER WIDENING, HMA RESURFACING, EARTHWORK, GUARDRAIL, AND OTHER WORK NECESSARY TO COMPLETE THIS SECTION.

THE EXISTING METAL BRIDGE RAIL ON EACH STRUCTURE SHALL BE SALVAGED AND GIVEN TO A OPERATIONS MAINTENANCE YARD. CONTACT JOSH GALLOWAY AT (217) 663-2240 FOR PROPER DISPOSAL.

A TYPE II CAST IN PLACE PERMANENT SURVEY MARKER SHALL BE PLACED NEAR THE PROPOSED STRUCTURE. THE TABLET STYLE SHALL CONFORM TO STANDARD 667101-02 AND THE CAST IN PLACE BASE SHALL CONFORM TO STANDARD 668001-01. THE LOCATION OF THE SURVEY MARKER SHALL BE DETERMINED BY THE ENGINEER AND THE CHIEF OF SURVEYS.

THE FOLLOWING RATES OF APPLICATION HAVE BEEN USED IN CALCULATING PLAN QUANTITIES:

AGGREGATE SHOULDERS	2.05 TONS/CU. YD.
BITUMINOUS MATERIALS (TACK COAT)	
MILLED SURFACE OR CONCRETE	0.05 LBS/SQ FT
BETWEEN HMA LIFTS	0.025 LBS/SQ FT
HOT-MIX ASPHALT	112 LBS/SQ YD/INCH

THE FOLLOWING MIXTURE REQUIREMENTS ARE APPLICABLE TO THIS PROJECT:

LOCATION(S)	MIXTURE USE(S)	PG	DESIGN AIR VOIDS	MIXTURE COMPOSITION	FRICTION AGGREGATE	MIXTURE WEIGHT	QUALITY MANAGEMENT PROGRAM	SUBLOT SIZE	MATERIAL TRANSFER DEVICE (REQUIRED?)
MAINLINE	POLYMERIZED HMA SURFACE COURSE, IL-9.5, MIX "D", N90	PG 70-22	4.0% @ N=90	IL - 9.5	MIXTURE D	N90	QC/QA	3000	N/A
PAVEMENT CONNECTOR	POLYMERIZED HMA SURFACE COURSE, IL-9.5, MIX "D", N90 (TOP LIFT)	PG 70-22	4.0% @ N=90	IL - 9.5	MIXTURE D	N90	QC/QA	3000	N/A
PAVEMENT CONNECTOR	HMA BINDER COURSE, IL-19.0, N90 (BOTTOM LIFT)	PG 64-22	4.0% @ N=90	IL - 19.0	N/A	N90	QC/QA	3000	N/A

INDEX OF SHEETS

SHEET NO.	ITEM
1	COVER SHEET
2	INDEX OF SHEETS, HIGHWAY STANDARDS & GENERAL NOTES
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6-9	TYPICAL CROSS SECTIONS
10-12	SCHEDULE OF QUANTITIES
13-16	PLAN & PROFILE SHEETS
17-22	STAGE CONSTRUCTION SHEETS
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30-62	STRUCTURE PLANS 051-0022 & 051-0023
63-87	CROSS SECTION SHEETS

HIGHWAY STANDARDS

STD. NO.	DESCRIPTION
000001-08	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
001001-02	AREAS OF REINFORCEMENT BARS
001006	DECIMAL OF AN INCH AND OF A FOOT
280001-07	TEMPORARY EROSION CONTROL SYSTEMS
420001-10	PAVEMENT JOINTS
420406	PAVEMENT CONNECTOR (HMA) FOR BRIDGE APPROACH SLAB
515001-04	NAME PLATE FOR BRIDGES
630001-13	STEEL PLATE BEAM GUARDRAIL
630301-09	SHOULDER WIDENING FOR TYPE 1 GUARDRAIL TERMINALS
631011-10	TRAFFIC BARRIER TERMINAL, TYPE 2
631026-06	TRAFFIC BARRIER TERMINAL, TYPE 5 & 5A
631031-18	TRAFFIC BARRIER TERMINAL, TYPE 6
642001-03	SHOULDER RUMBLE STRIPS, 16 IN.
667101-02	PERMANENT SURVEY MARKERS
668001-01	METHOD OF RESETTING U.S. GEOLOGIC SURVEY AND NATIONAL GEODETIC SURVEY BENCHMARKS
701101-05	OFF-ROAD OPERATIONS, MULTILANE, 15' TO 24" FROM PAVEMENT EDGE
701106-02	OFF-ROAD OPERATIONS, MULTILANE, MORE THAN 15' AWAY
701400-12	APPROACH TO LANE CLOSURE, FREEWAY/EXPRESSWAY
701401-13	LANE CLOSURE, FREEWAY/EXPRESSWAY
701402-12	LANE CLOSURE, FREEWAY/EXPRESSWAY, WITH BARRIER
701426-09	LANE CLOSURE, MULTILANE, INTERMITTENT OR MOVING OPERATION, FOR SPEEDS >= 45 MPH
701901-09	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
BLR-21-9	TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES FOR CONSTRUCTION ON RURAL LOCAL HIGHWAYS

REV. - MS

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**INDEX, HIGHWAY STANDARDS
& GENERAL NOTES**

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
327	(51-24HB-1) BR	LAWRENCE	87	2
CONTRACT NO. 74A09				

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

ILLINOIS DFMD PROJECT

80% FEDERAL
20% STATE

80% FEDERAL
20% STATE

SUMMARY OF QUANTITIES			TOTAL QUANTITIES	CONSTRUCTION TYPE CODE	
CODE NO	ITEM	UNIT		0013 SN 051-0022	0013 SN 051-0023
20200100	EARTH EXCAVATION	CU YD	4	4	
20200600	EXCAVATING AND GRADING EXISTING SHOULDER	UNIT	28	14	14
20400800	FURNISHED EXCAVATION	CU YD	352	159	193
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	207	100	107
28000400	PERIMETER EROSION BARRIER	FOOT	1033	551	482
28000500	INLET AND PIPE PROTECTION	EACH	2	1	1
31102300	SUBBASE GRANULAR MATERIAL, TYPE C 6"	SO YD	1811	913	898
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	578	289	289
40600990	TEMPORARY RAMP	SO YD	214	107	107
40604164	POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N90	TON	144	72	72
42000070	PAVEMENT CONNECTOR (HMA) FOR BRIDGE APPROACH SLAB	SO YD	314	157	157
44000100	PAVEMENT REMOVAL	SO YD	497	249	248
44004250	PAVED SHOULDER REMOVAL	SO YD	1446	728	718

SUMMARY OF QUANTITIES			TOTAL QUANTITIES	CONSTRUCTION TYPE CODE	
CODE NO	ITEM	UNIT		0013 SN 051-0022	0013 SN 051-0023
48102100	AGGREGATE WEDGE SHOULDER, TYPE B	TON	11	6	5
48300500	PORTLAND CEMENT CONCRETE SHOULDERS 10"	SO YD	1668	841	827
48301000	PROTECTIVE COAT	SO YD	1668	841	827
50100100	REMOVAL OF EXISTING STRUCTURES	EACH	2	1	1
50200100	STRUCTURE EXCAVATION	CU YD	304	152	152
50300100	FLOOR DRAINS	EACH	16	8	8
50300225	CONCRETE STRUCTURES	CU YD	181.1	90.6	90.5
50300255	CONCRETE SUPERSTRUCTURE	CU YD	684.2	342.1	342.1
50300260	BRIDGE DECK GROOVING	SO YD	1434	717	717
50300300	PROTECTIVE COAT	SO YD	1776	888	888
50301350	CONCRETE SUPERSTRUCTURE (APPROACH SLAB)	CU YD	233.6	116.8	116.8
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	296830	148415	148415
50800515	BAR SPLICERS	EACH	1480	740	740
51100100	SLOPE WALL 4 INCH	SO YD	70	35	35

REV. - MS

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**SUMMARY OF
QUANTITIES**

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
327	(51-24HB-1)BR	LAWRENCE	87	3
CONTRACT NO. 74A09			ILLINOIS FED. AID PROJECT	

80% FEDERAL
20% STATE

80% FEDERAL
20% STATE

SUMMARY OF QUANTITIES			TOTAL QUANTITIES	CONSTRUCTION TYPE CODE	
CODE NO	ITEM	UNIT		0013 SN 051-0022	0013 SN 051-0023
51200957	FURNISHING METAL SHELL PILES 12" X 0.250"	FOOT	1500	750	750
51202305	DRIVING PILES	FOOT	1500	750	750
51203200	TEST PILE METAL SHELLS	EACH	4	2	2
51500100	NAME PLATES	EACH	2	1	1
52200010	TEMPORARY SHEET PILING	SO FT	474	237	237
58600101	GRANULAR BACKFILL FOR STRUCTURES	CU YD	170	85	85
59100100	GEOCOMPOSITE WALL DRAIN	SO YD	108	54	54
60146304	PIPE UNDERDRAINS FOR STRUCTURES 4"	FOOT	244	122	122
* 63000001	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	FOOT	1088	538	550
* 63100045	TRAFFIC BARRIER TERMINAL, TYPE 2	EACH	2	1	1
* 63100070	TRAFFIC BARRIER TERMINAL, TYPE 5	EACH	2	1	1
* 63100085	TRAFFIC BARRIER TERMINAL, TYPE 6	EACH	4	2	2
* 63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	4	2	2

SUMMARY OF QUANTITIES			TOTAL QUANTITIES	CONSTRUCTION TYPE CODE	
CODE NO	ITEM	UNIT		0013 SN 051-0022	0013 SN 051-0023
63200310	GUARDRAIL REMOVAL	FOOT	896	448	448
64200116	SHOULDER RUMBLE STRIPS, 16 INCH	FOOT	2386	1205	1181
66700305	PERMANENT SURVEY MARKERS, TYPE II	EACH	2	1	1
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	10	5	5
67100100	MOBILIZATION	L SUM	1	0.5	0.5
70100207	TRAFFIC CONTROL AND PROTECTION, STANDARD 701402	EACH	4	2	2
70100800	TRAFFIC CONTROL AND PROTECTION, STANDARD 701401	L SUM	1	0.5	0.5
70107007	PAVEMENT MARKING BLACKOUT TAPE, 7"	FOOT	2164	1079	1085
70107025	CHANGEABLE MESSAGE SIGN	CAL DA	28	14	14
70300100	SHORT TERM PAVEMENT MARKING	FOOT	70	35	35
70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SO FT	1297	647	650
70300241	TEMPORARY PAVEMENT MARKING - LINE 6"- PAINT	FOOT	3382	1703	1679
70400100	TEMPORARY CONCRETE BARRIER	FOOT	825	412.5	412.5

* SPECIALTY ITEM

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**SUMMARY OF
QUANTITIES**

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
327	(51-24HB-1)BR	LAWRENCE	87	4
			CONTRACT NO. 74A09	
		ILLINOIS	FED. AID PROJECT	

80% FEDERAL
20% STATE

80% FEDERAL
20% STATE

SUMMARY OF QUANTITIES			TOTAL QUANTITIES	CONSTRUCTION TYPE CODE	
CODE NO	ITEM	UNIT		0013 SN 051-0022	0013 SN 051-0023
70400125	PINNING TEMPORARY CONCRETE BARRIER	EACH	216	108	108
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	825	412.5	412.5
70600250	IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 3	EACH	2	1	1
70600350	IMPACT ATTENUATORS, RELOCATE (NON-REDIRECTIVE), TEST LEVEL 3	EACH	2	1	1
* 72501000	TERMINAL MARKER - DIRECT APPLIED	EACH	4	2	2
* 78003131	PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - STANDARD - LINE 6"	FOOT	3382	1703	1679
* 78011035	GROOVING FOR RECESSED PAVEMENT MARKING 7"	FOOT	3382	1703	1679
* 78200005	GUARDRAIL REFLECTORS, TYPE A	EACH	16	8	8
* 78200011	BARRIER WALL REFLECTORS, TYPE C	EACH	8	4	4
X2501000	SEEDING, CLASS 2 (SPECIAL)	ACRE	0.75	0.37	0.38
X4400100	PORTLAND CEMENT CONCRETE SURFACE REMOVAL (VARIABLE DEPTH)	SQ YD	512	256	256

SUMMARY OF QUANTITIES			TOTAL QUANTITIES	CONSTRUCTION TYPE CODE	
CODE NO	ITEM	UNIT		0013 SN 051-0022	0013 SN 051-0023
X4401198	HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH	SQ YD	772	386	386
X7011800	TRAFFIC CONTROL AND PROTECTION, STANDARD BLR 21	L SUM	1	0.5	0.5
Z0012754	STRUCTURAL REPAIR OF CONCRETE (DEPTH EQUAL TO OR LESS THAN 5 INCHES)	SQ FT	5	5	

* SPECIALTY ITEM

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**SUMMARY OF
QUANTITIES**

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
327	(51-24HB-1)BR	LAWRENCE	87	5
			CONTRACT NO. 74A09	
		ILLINOIS FED. AID PROJECT		

PROPOSED TYPICAL CROSS SECTION

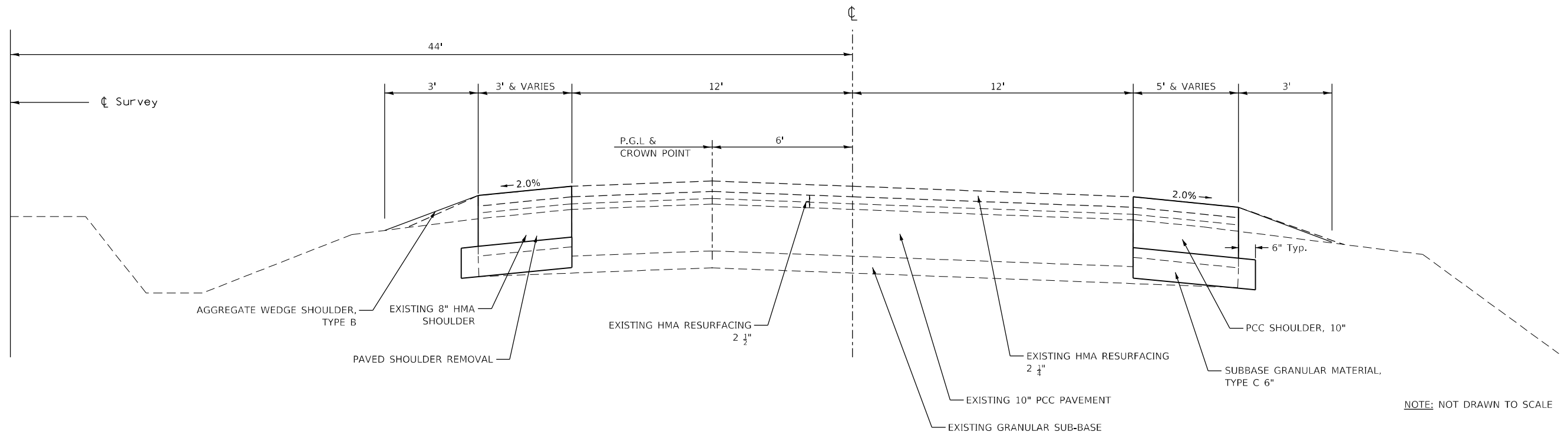
US 50 EASTBOUND

US 50 WESTBOUND

DL STA. 859+22 TO DL STA. 860+75
DL STA. 867+25 TO DL STA. 868+20
PL STA. 860+55 TO PL STA. 868+20

DL STA. 868+81 TO DL STA. 870+15
PL STA. 868+34 TO PL STA. 869+00

NOTE: EBL SHOWN - ROTATE
ABOUT ϕ FOR WBL ON TANGENT



NOTE: NOT DRAWN TO SCALE

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

TYPICAL CROSS SECTIONS

SCALE: SHEET 1 OF 4 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 74A09				
ILLINOIS FED. AID PROJECT				

PROPOSED TYPICAL CROSS SECTION

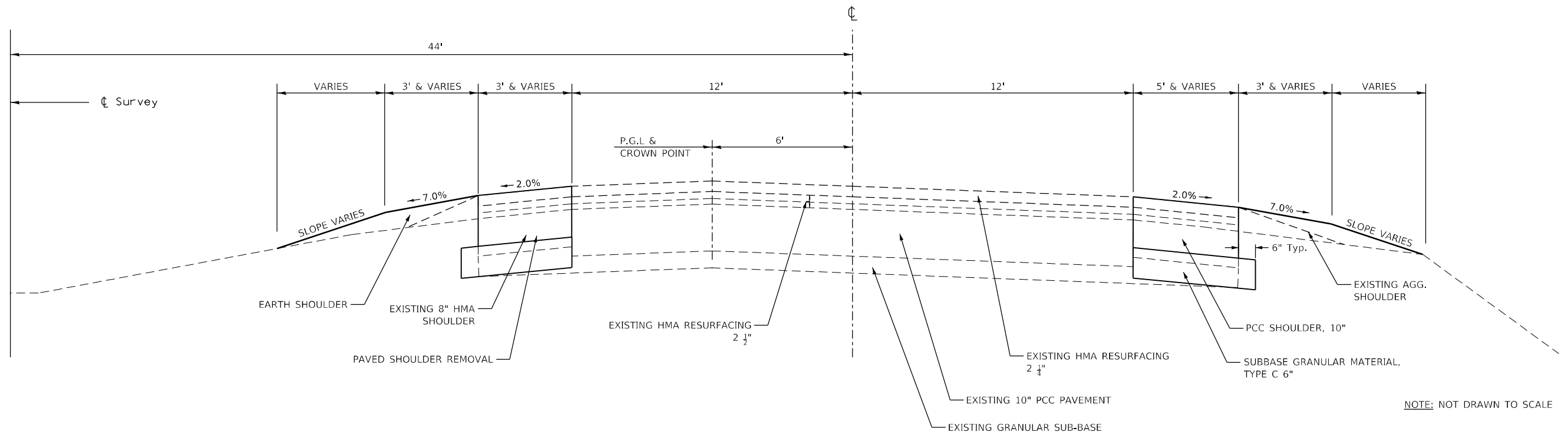
US 50 EASTBOUND

DL STA. 860+75 TO DL STA. 863+00
 DL STA. 866+50 TO DL STA. 867+25
 PL STA. 861+20 TO PL STA. 863+00
 PL STA. 866+50 TO PL STA. 867+72

US 50 WESTBOUND

DL STA. 861+56 TO DL STA. 863+00
 DL STA. 866+50 TO DL STA. 868+81
 PL STA. 861+87 TO PL STA. 863+00
 PL STA. 866+50 TO PL STA. 868+34

NOTE: EBL SHOWN - ROTATE
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NOTE: NOT DRAWN TO SCALE

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TYPICAL CROSS SECTIONS

SCALE: SHEET 2 OF 4 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
327	(51-24HB-1)BR	LAWRENCE	87	7
CONTRACT NO. 74A09			ILLINOIS FED. AID PROJECT	

PROPOSED TYPICAL CROSS SECTION

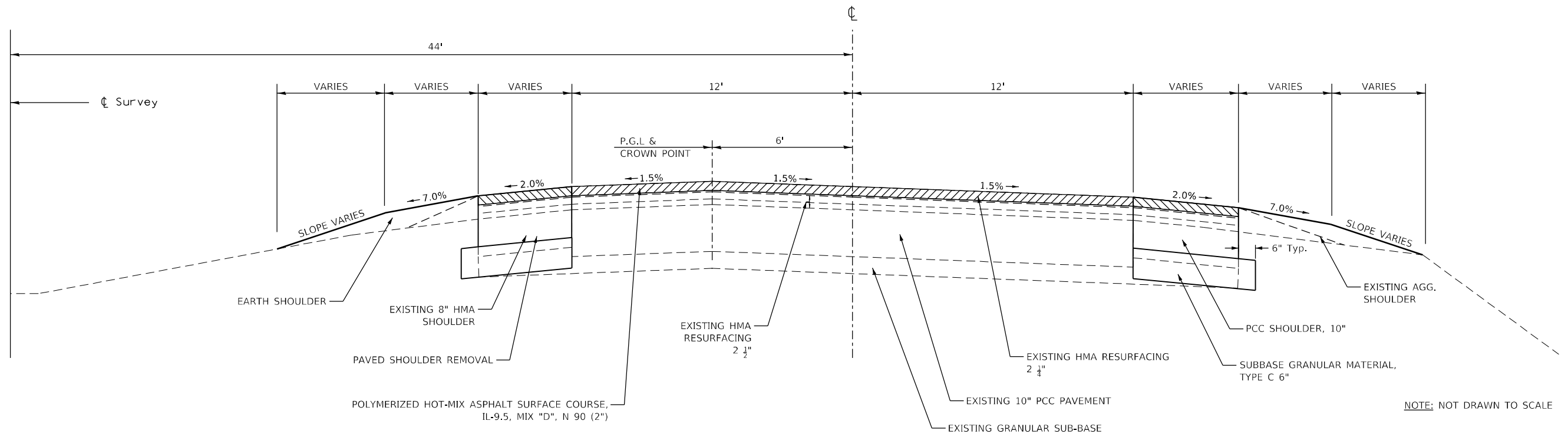
US 50 EASTBOUND

STA. 863+00 TO STA. 863+93.05
STA. 865+98.26 TO STA. 866+50

US 50 WESTBOUND

STA. 863+00 TO STA. 863+57.73
STA. 865+62.95 TO STA. 866+50

NOTE: EBL SHOWN - ROTATE ABOUT ζ FOR WBL ON TANGENT



- HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH
- PORTLAND CEMENT CONCRETE SURFACE REMOVAL, VARIABLE DEPTH

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TYPICAL CROSS SECTIONS

SCALE: SHEET 3 OF 4 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 74A09				
ILLINOIS FED. AID PROJECT				

PROPOSED TYPICAL CROSS SECTION

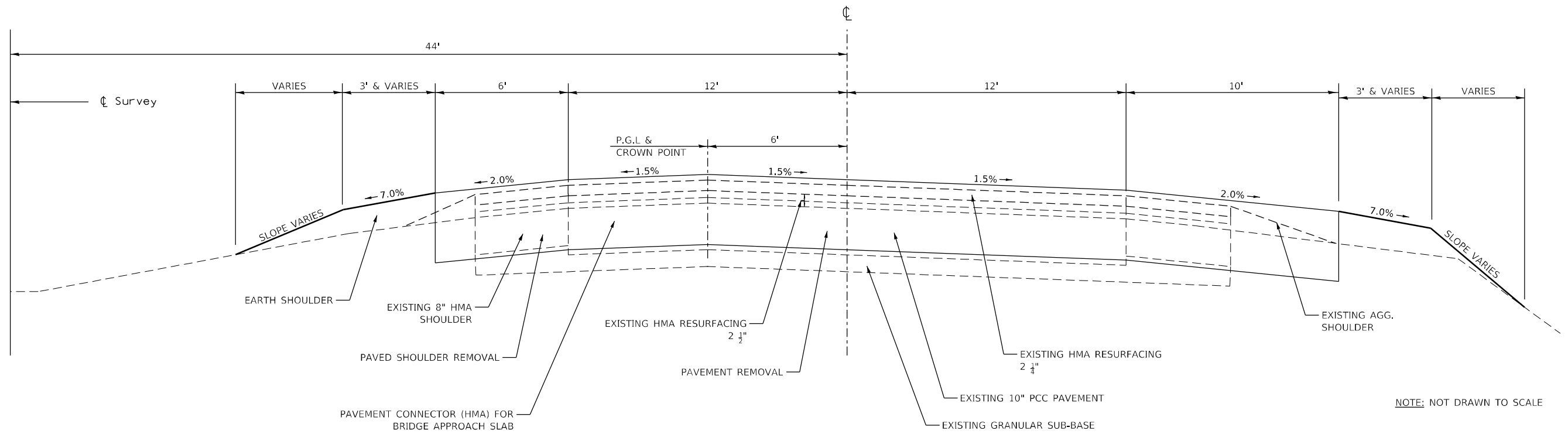
US 50 EASTBOUND

STA. 863+93.05 TO STA. 864+10.73
STA. 865+80.58 TO STA. 865+98.26

US 50 WESTBOUND

STA. 863+57.73 TO STA. 863+75.41
STA. 865+45.27 TO STA. 865+62.95

NOTE: EBL SHOWN - ROTATE
ABOUT ζ FOR WBL ON TANGENT



NOTE: NOT DRAWN TO SCALE

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TYPICAL CROSS SECTIONS

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
327	(51-24HB-1)BR	LAWRENCE	87	9
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BLACKOUT & SHORT TERM PAVEMENT MARKING							
SIDE (PL/CL/DL)	STATIONING		LENGTH (FEET)	WIDTH (INCH)	PAVEMENT MARKING BLACKOUT TAPE, 7"	SHORT TERM PAVEMENT MARKING (FOOT)	SHORT TERM PAVEMENT MARKING REMOVAL (SQ FT)
	FROM	TO					
US 50 EASTBOUND/SN 051-0022							
STAGE 1							
DL	860+51.00	867+69.00	718.00	7.00	718.00	-	418.83
STAGE 2							
PL	861+55.00	863+93.00	238.00	7.00	238.00	-	138.83
PL	865+98.00	867+21.00	123.00	7.00	123.00	-	71.75
STAGE COMPLETION							
CL	863+00.00	866+50.00	350.00	6.00	-	35.00	17.50
TOTAL =					1079	35	647
US 50 WESTBOUND/SN 051-0023							
STAGE 1							
DL	861+87.00	869+15.00	728.00	7.00	728.00	-	424.67
STAGE 2							
PL	862+38.00	863+58.00	120.00	7.00	120.00	-	70.00
PL	865+63.00	868+00.00	237.00	7.00	237.00	-	138.25
STAGE COMPLETION							
CL	863+00.00	866+50.00	350.00	6.00	-	35.00	17.50
TOTAL =					1085	35	650
PROJECT TOTAL =					2164	70	1297

GUARDRAIL									
LOCATION	GUARDRAIL REMOVAL (FOOT)	TRAFFIC BARRIER TERMINAL, TYPE 6 (EACH)	TRAFFIC BARRIER TERMINAL, TYPE 5 (EACH)	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS (FOOT)	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT (EACH)	TRAFFIC BARRIER TERMINAL, TYPE 2 (EACH)	GUARDRAIL REFLECTORS, TYPE A (EACH)	BARRIER WALL REFLECTORS, TYPE C (EACH)	TERMINAL MARKER- DIRECT APPLIED (EACH)
051-0022									
NW QUADRANT	267.0	1.0	-	212.5	1.0	-	3	-	1
NE QUADRANT	-	-	-	-	-	-	-	-	-
SW QUADRANT	181.0	1.0	-	275.0	1.0	-	4	-	1
SE QUADRANT	-	-	1.0	50.0	-	1.0	1	-	-
NORTH PARAPET	-	-	-	-	-	-	-	2	-
SOUTH PARAPET	-	-	-	-	-	-	-	2	-
TOTAL =	448	2	1	538	2	1	8	4	2
051-0023									
NW QUADRANT	-	-	1.0	62.5	-	1.0	1	-	-
NE QUADRANT	181.0	1.0	-	275.0	1.0	-	4	-	1
SW QUADRANT	-	-	-	-	-	-	-	-	-
SE QUADRANT	267.0	1.0	-	212.5	1.0	-	3	-	1
NORTH PARAPET	-	-	-	-	-	-	-	2	-
SOUTH PARAPET	-	-	-	-	-	-	-	2	-
TOTAL =	448	2	1	550	2	1	8	4	2
PROJECT TOTAL =	896	4	2	1088	4	2	16	8	4

EARTHWORK				
LOCATION	EARTH EXCAVATION CU YD	EARTH EX 25% ADJ. CU YD	EMBANKMENT CU YD	EARTHWORK BALANCE WASTE(+) SHORTAGE(-) CU YD
US 50 EASTBOUND/SN 051-0022				
STA. 860+75 TO STA. 868+00	3.6	2.7	162.1	-159.0
US 50 WESTBOUND/SN 051-0023				
STA. 861+25 TO STA. 868+75	0.0	0.0	193.2	-193.2
PROJECT TOTAL =	4	2.7	355	-352

EROSION CONTROL			
STATIONING	PERIMETER EROSION BARRIER (FOOT)	INLET AND PIPE PROTECTION (EACH)	
US 50 EASTBOUND/SN 051-0022			
860+72.00	864+52.00	385.5	-
865+61.80	867+27.00	165.6	-
860+98.00		-	1.0
TOTAL =		551	1
US 50 WESTBOUND/SN 051-0023			
861+35.00	864+94.20	260.6	-
865+04.90	868+84.00	221.0	-
868+98.00		-	1.0
TOTAL =		482	1
PROJECT TOTAL =		1033	2

PAVEMENT MARKING				
STATIONING	LENGTH (FEET)	PERFORMED PLASTIC PAVEMENT MARKING, TYPE B-STANDARD-LINE 6"	GROOVING FOR RECESSED PAVEMENT MARKING 7"	
US 50 EASTBOUND/SN 051-0022				
859+22.00	860+55.00	133.00	133.00	133.00
860+55.00	863+00.00	245.00	490.00	490.00
863+00.00	863+93.05	93.05	209.36	209.36
863+93.05	865+98.26	205.21	461.72	461.72
865+98.26	866+50.00	51.74	116.42	116.42
866+50.00	867+72.00	122.00	244.00	244.00
867+72.00	868+20.00	48.00	48.00	48.00
TOTAL =		1703	1703	1703
US 50 WESTBOUND/SN 051-0023				
861+37.00	861+87.00	50.00	50.00	50.00
861+87.00	863+00.00	113.00	226.00	226.00
863+00.00	863+57.73	57.73	129.89	129.89
863+57.73	865+62.95	205.22	461.75	461.75
865+62.95	866+50.00	87.05	195.86	195.86
866+50.00	869+00.00	250.00	500.00	500.00
869+00.00	870+15.00	115.00	115.00	115.00
TOTAL =		1679	1679	1679
PROJECT TOTAL =		3382	3382	3382

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SCALE:				SHEET 2	OF 3	SHEETS	STA.	TO STA.
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SCHEDULE OF QUANTITIES

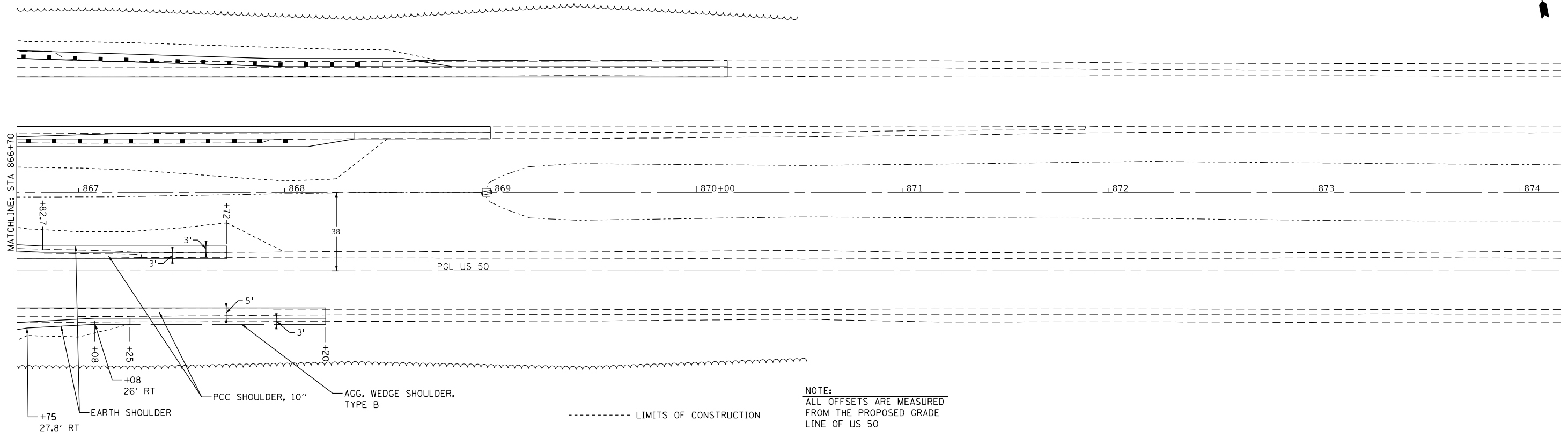
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327	(51-24HB-1)BR	LAWRENCE	87	11
CONTRACT NO. 74A09				
ILLINOIS		FED. AID PROJECT		



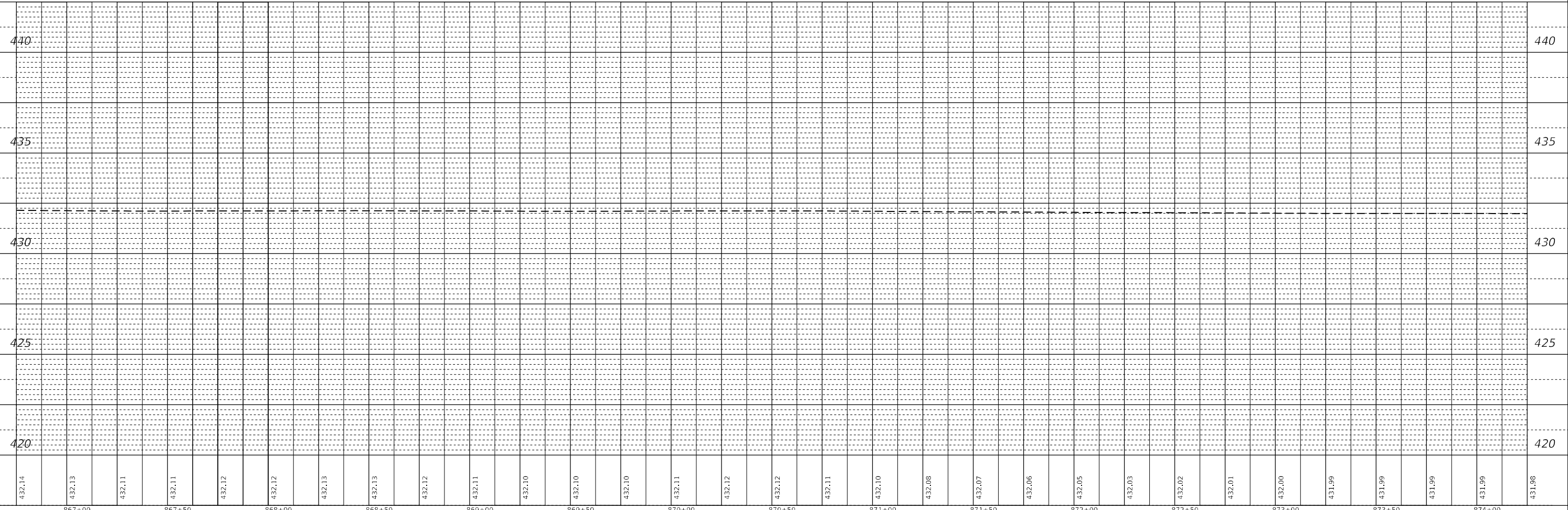
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NOTE:
 ALL OFFSETS ARE MEASURED FROM THE PROPOSED GRADE LINE OF US 50



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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**SN 051-0022 /US 50
 EASTBOUND PLAN & PROFILE**

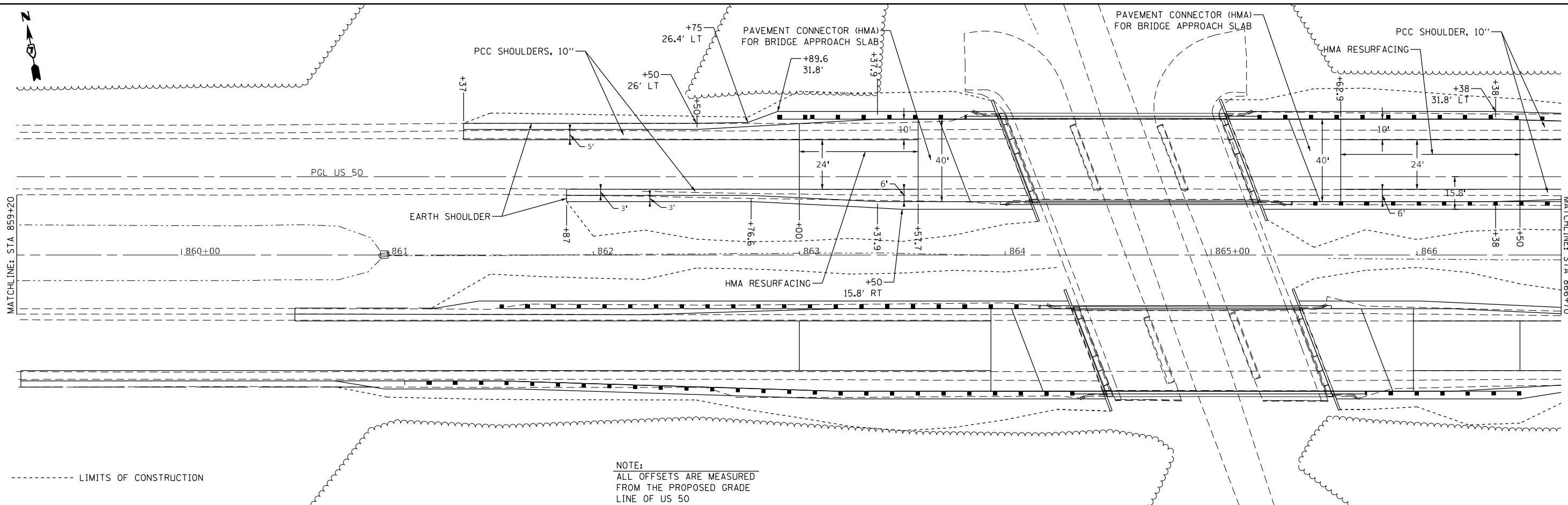
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 74A09				
ILLINOIS		FED. AID PROJECT		

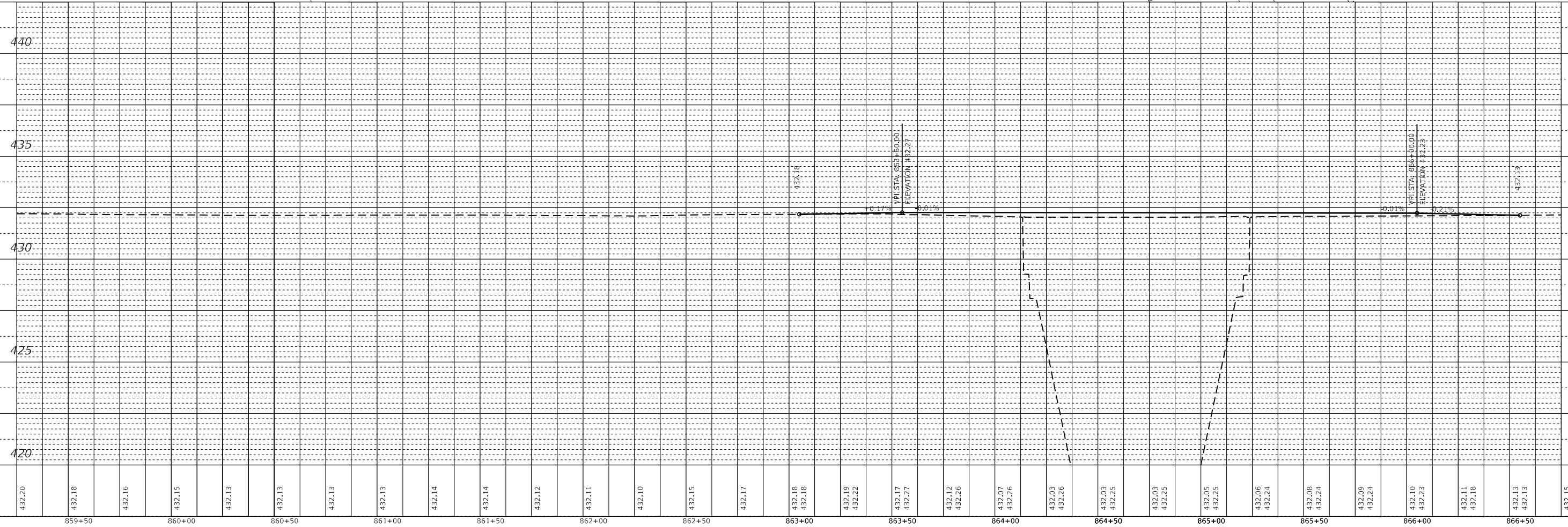
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NOTE:
ALL OFFSETS ARE MEASURED
FROM THE PROPOSED GRADE
LINE OF US 50



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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**SN 051-0023 /US 50
WESTBOUND PLAN & PROFILE**

SCALE: SHEET 3 OF 4 SHEETS STA. TO STA.

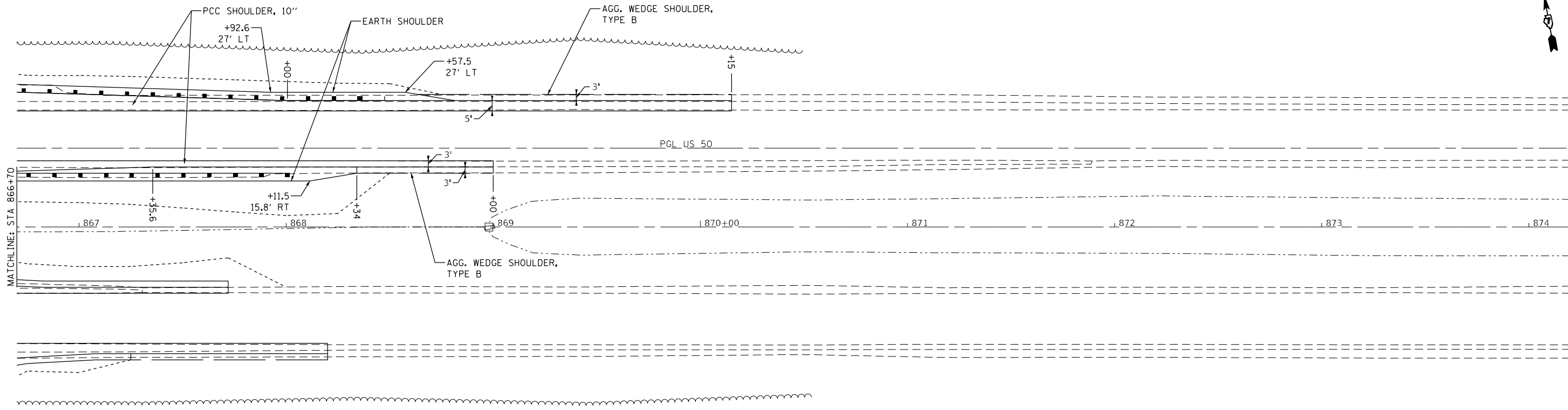
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			CONTRACT NO.	74A09
ILLINOIS FED. AID PROJECT				



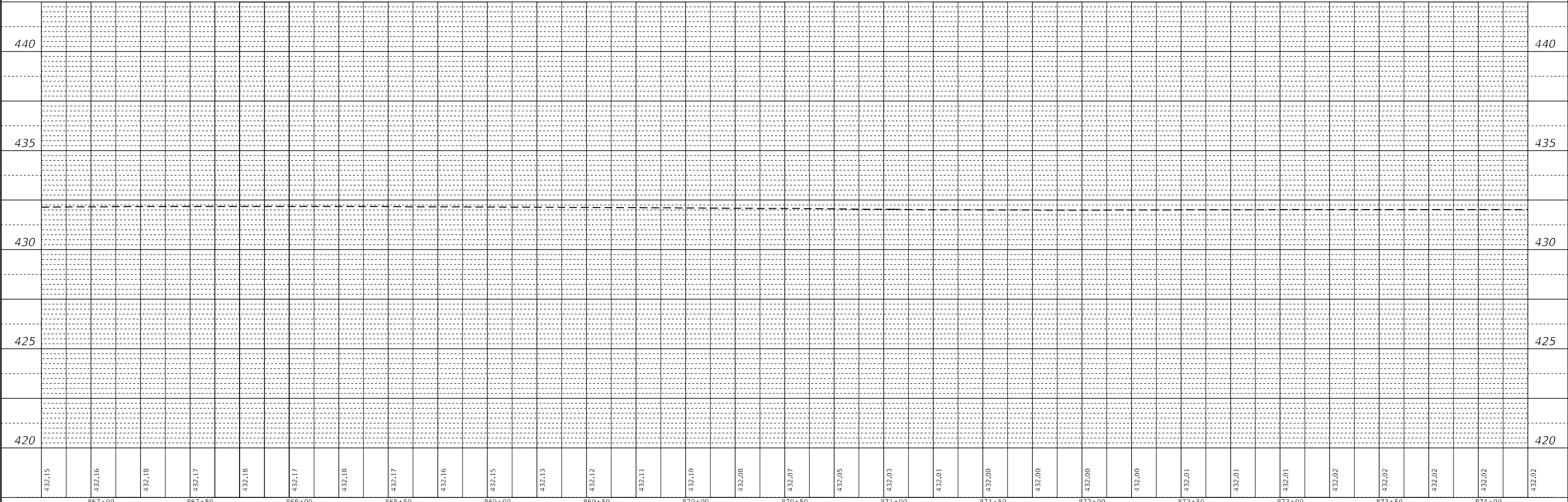
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NOTE BOOK NO.			

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NOTE:
 ALL OFFSETS ARE MEASURED FROM THE PROPOSED GRADE LINE OF US 50



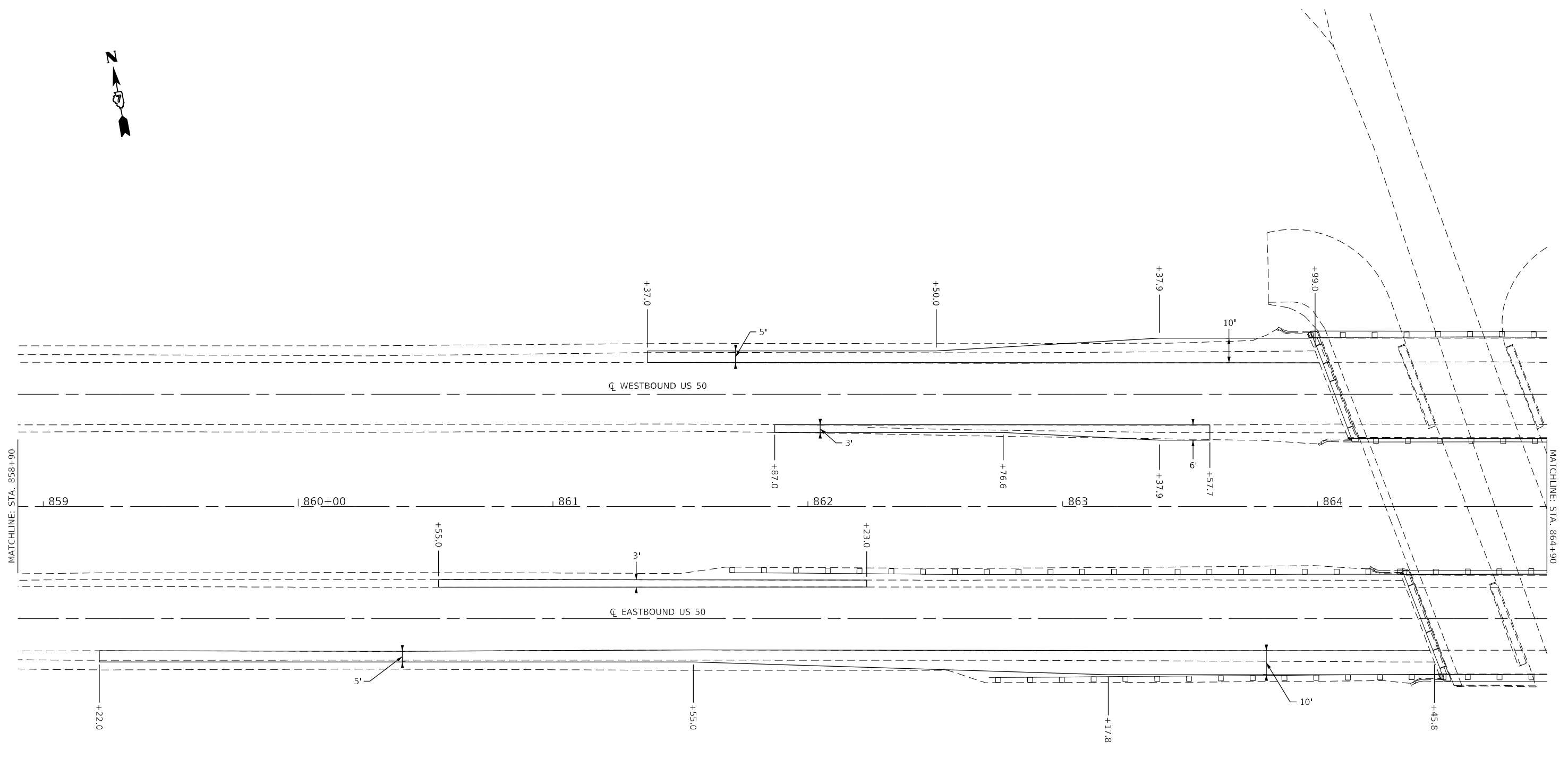
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**SN 051-0023 /US 50
 WESTBOUND PLAN & PROFILE**

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
327	(51-24HB-1)BR	LAWRENCE	87	16
ILLINOIS FED. AID PROJECT			CONTRACT NO. 74A09	



NOTE:
SEE STAGE 1 SHEETS FOR ADDITIONAL SHOULDER AREAS TO BE CONSTRUCTED UNDER STAGE 1 TRAFFIC CONTROL.

CONSTRUCT PCC SHOULDERS TO MATCH EXISTING EDGE OF PAVEMENT ELEVATIONS

WHEN NECESSARY, CONSTRUCT AGG. AND EARTH SHOULDERS WITH PRE-STAGE CONSTRUCTION TO ELIMINATE SHOULDER DROP OFFS.

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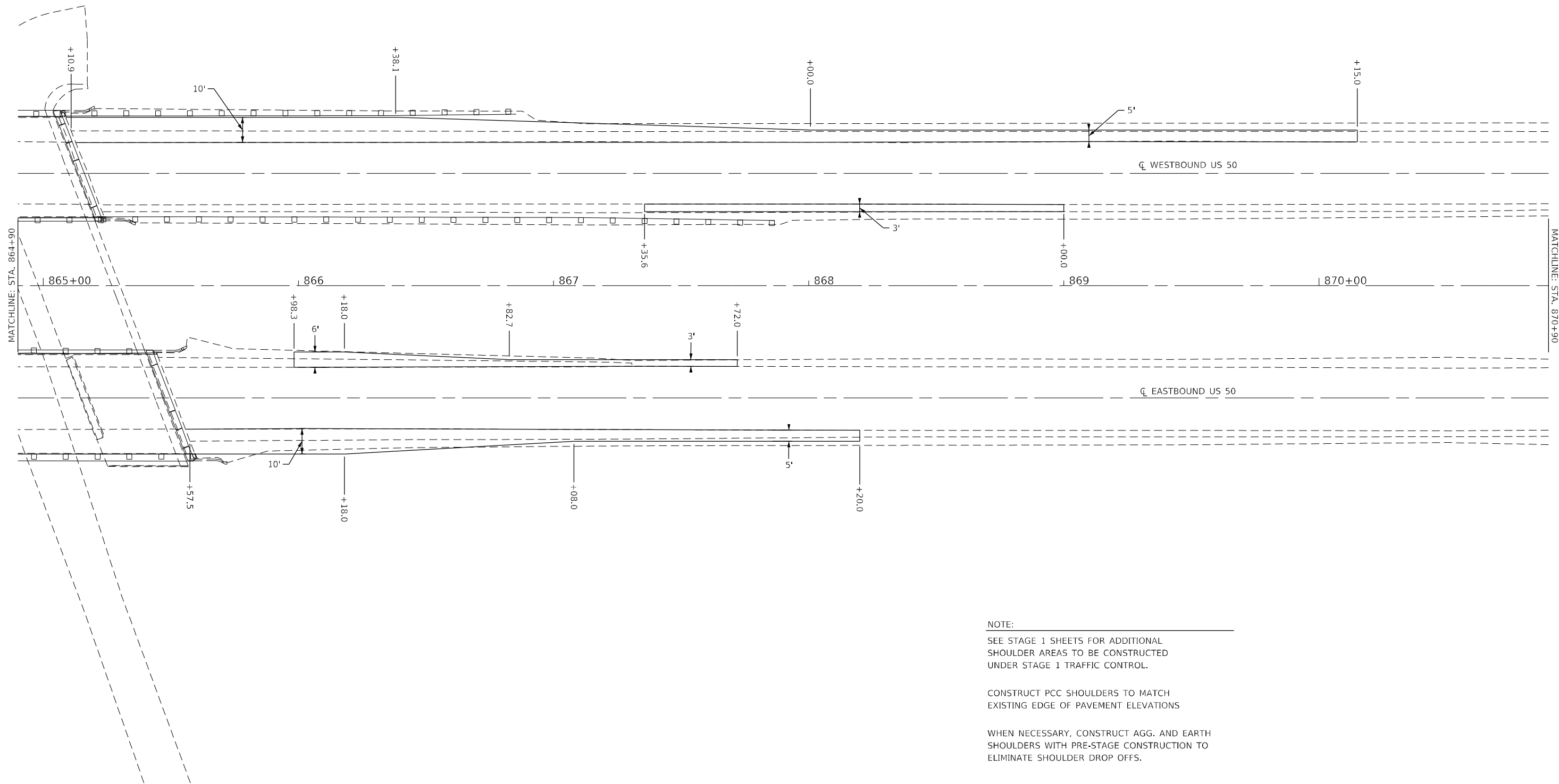
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SN 051-0022 & SN 051-0023
PRE-STAGE

SCALE: SHEET 1 OF 6 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
327	(51-24HB-1)BR	LAWRENCE	87	17
ILLINOIS FED. AID PROJECT			CONTRACT NO. 74A09	



NOTE:
SEE STAGE 1 SHEETS FOR ADDITIONAL SHOULDER AREAS TO BE CONSTRUCTED UNDER STAGE 1 TRAFFIC CONTROL.

CONSTRUCT PCC SHOULDERS TO MATCH EXISTING EDGE OF PAVEMENT ELEVATIONS

WHEN NECESSARY, CONSTRUCT AGG. AND EARTH SHOULDERS WITH PRE-STAGE CONSTRUCTION TO ELIMINATE SHOULDER DROP OFFS.

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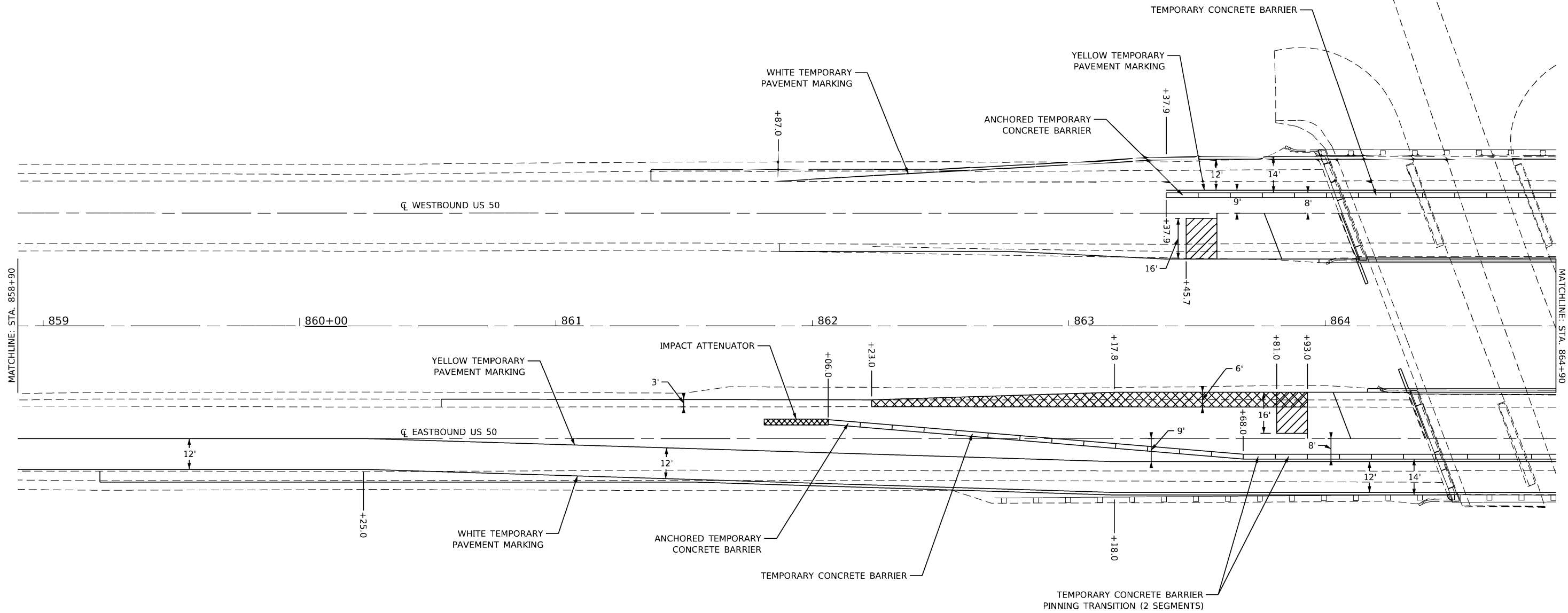
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**SN 051-0022 & SN 051-0023
PRE-STAGE**

SCALE: SHEET 2 OF 6 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
327	(51-24HB-1)BR	LAWRENCE	87	18
CONTRACT NO. 74A09			ILLINOIS FED. AID PROJECT	



**SEE STANDARD 701402 FOR
 DETAILS NOT SHOWN.

REV. - MS

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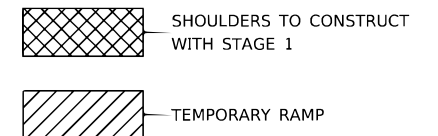
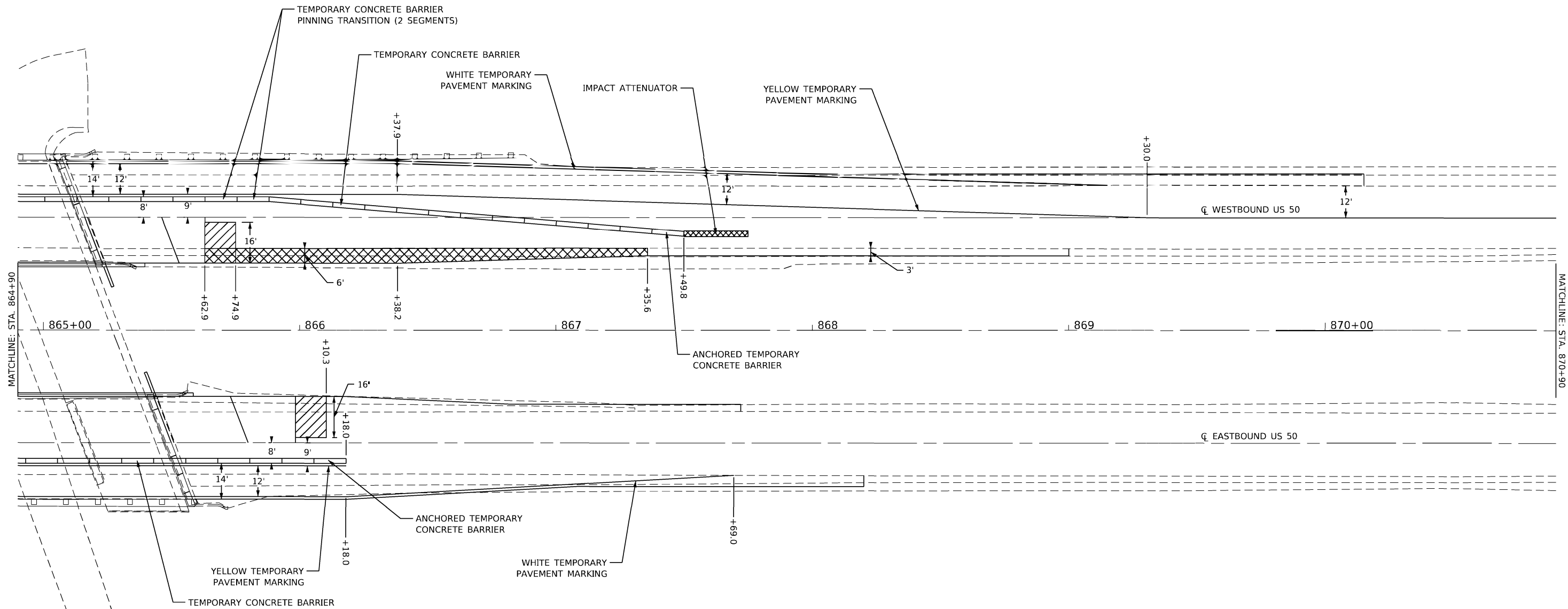
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**SN 051-0022 & SN 051-0023
 STAGE 1**

SCALE: SHEET 3 OF 6 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
327	(51-24HB-1)BR	LAWRENCE	87	19
CONTRACT NO. 74A09			ILLINOIS FED. AID PROJECT	



NOTE:
CONSTRUCT PCC SHOULDERS TO MATCH
EXISTING EDGE OF PAVEMENT ELEVATIONS

**SEE STANDARD 701402 FOR
DETAILS NOT SHOWN.

REV. - MS

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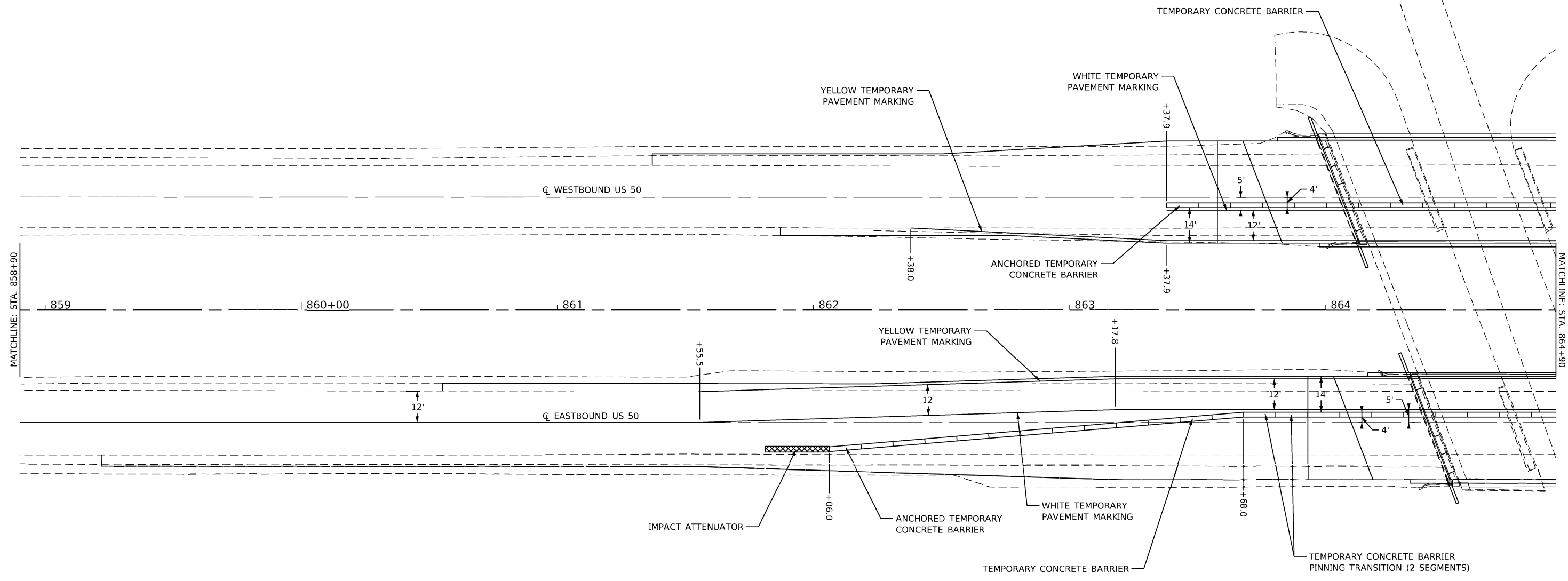
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	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**SN 051-0022 & SN 051-0023
STAGE 1**

SCALE: SHEET 4 OF 6 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
327	(51-24HB-1)BR	LAWRENCE	87	20
CONTRACT NO. 74A09			ILLINOIS FED. AID PROJECT	



**SEE STANDARD 701402 FOR DETAILS NOT SHOWN.

REV. - MS

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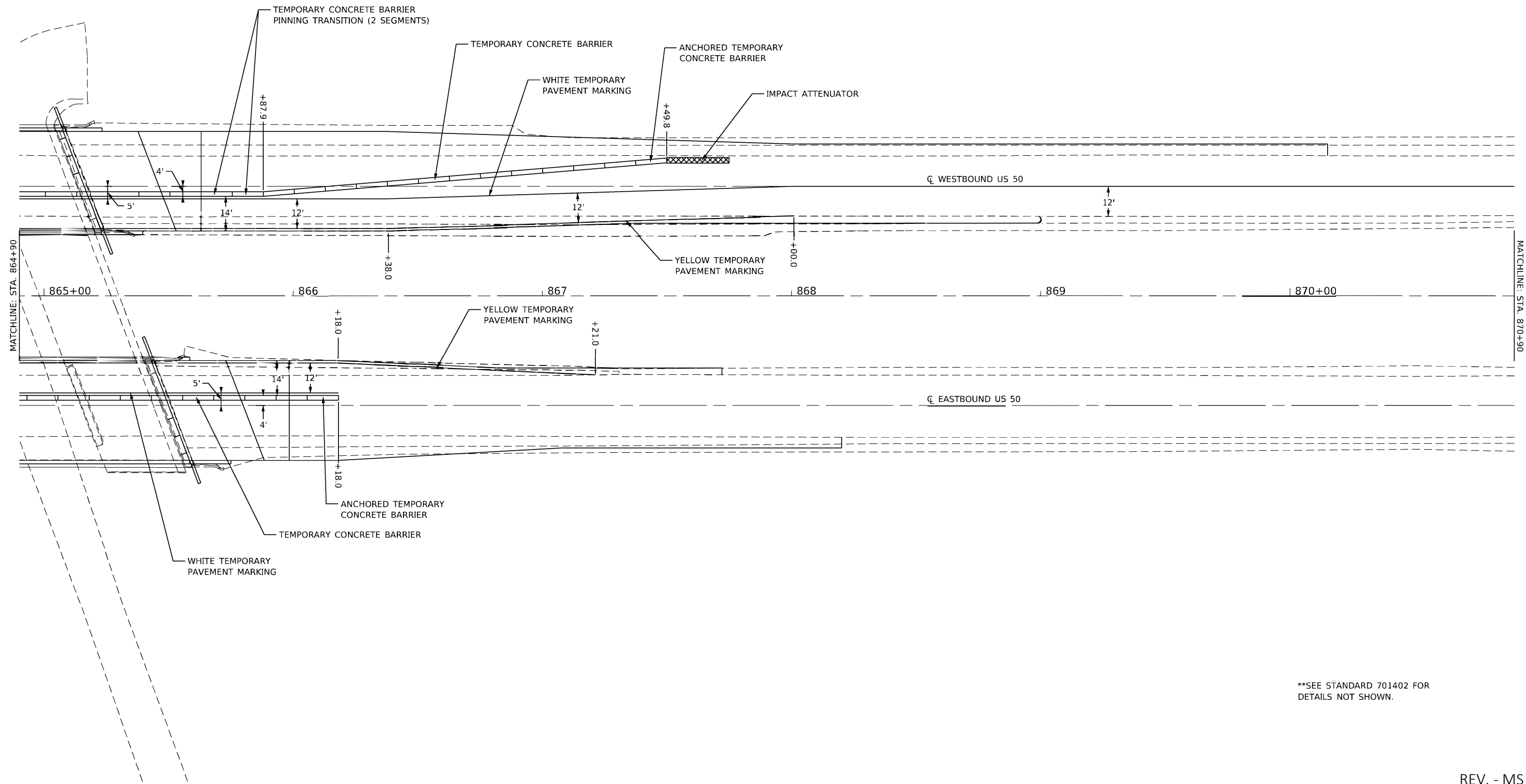
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PLOT DATE = 10/6/2023	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SN 051-0022 & SN 051-0023
STAGE 2

SCALE: SHEET 5 OF 6 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
327	(51-24HB-1)BR	LAWRENCE	87	21
			CONTRACT NO. 74A09	
ILLINOIS FED. AID PROJECT				



**SEE STANDARD 701402 FOR DETAILS NOT SHOWN.

REV. - MS

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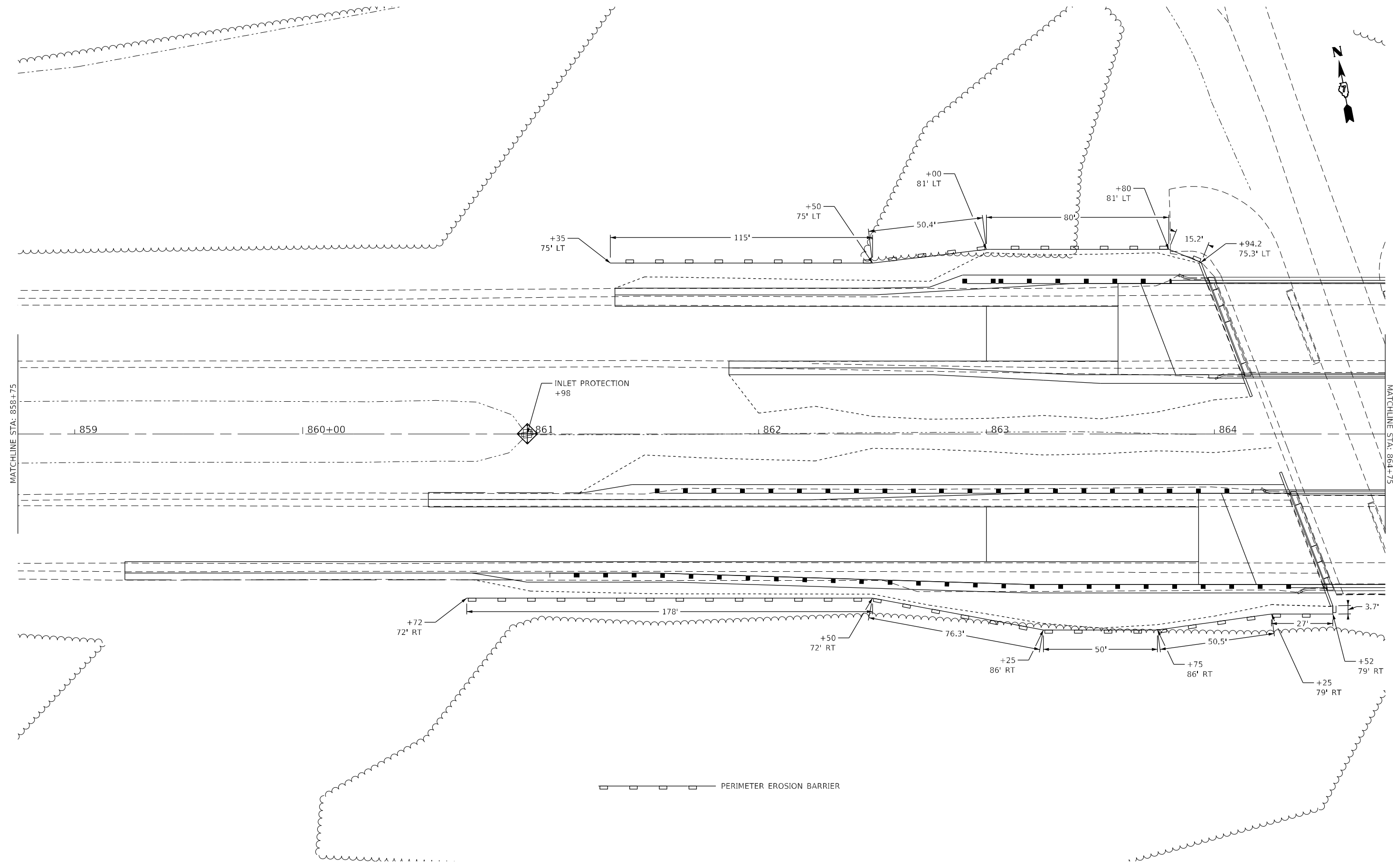
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	DATE -	REVISIED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SN 051-0022 & SN 051-0023
STAGE 2

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
327	(51-24HB-1)BR	LAWRENCE	87	22
CONTRACT NO. 74A09				
ILLINOIS FED. AID PROJECT				



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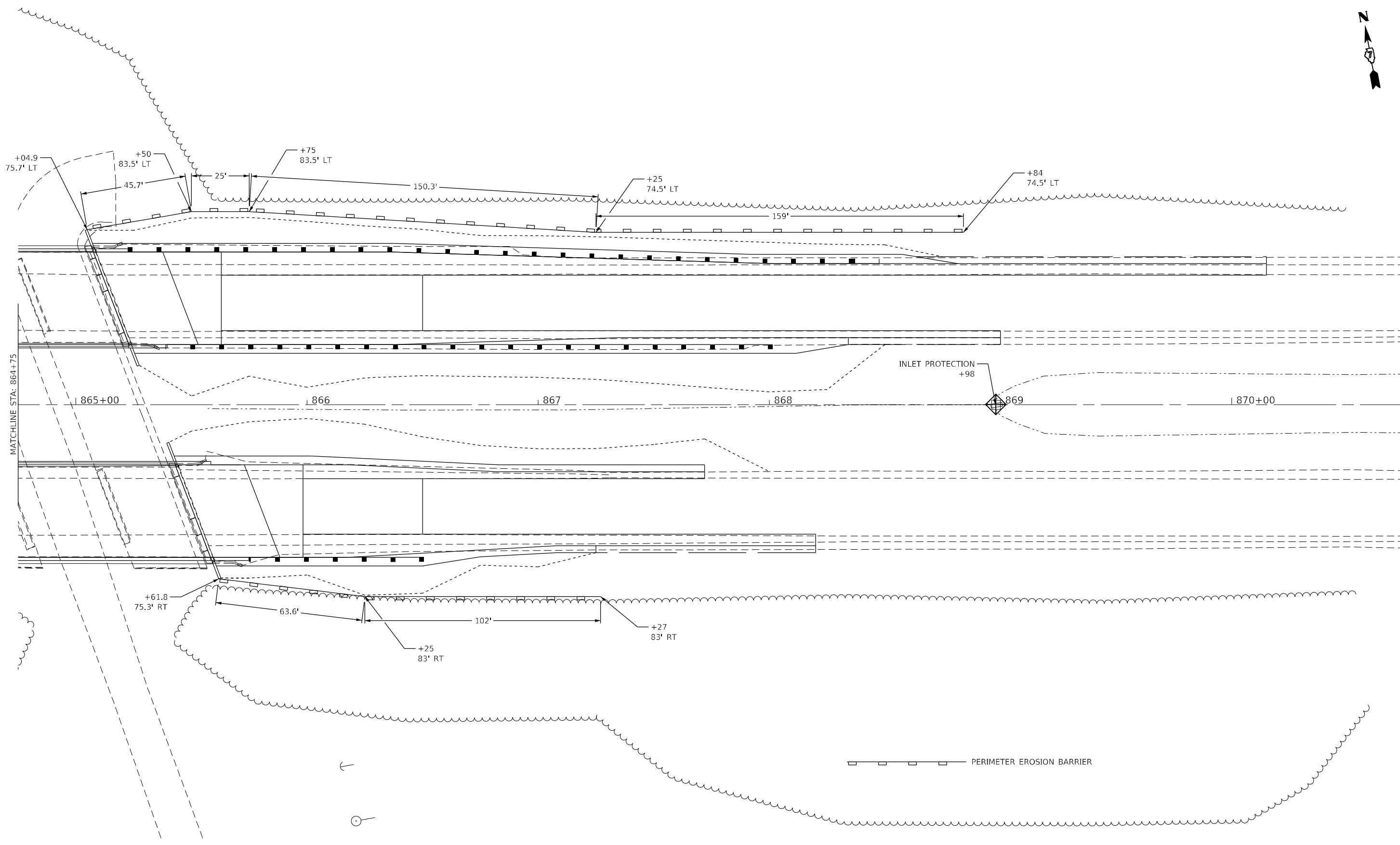
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PLOT DATE = 10/6/2023	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EROSION CONTROL SHEETS

SCALE: SHEET 1 OF 2 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
327	(51-24HB-1)BR	LAWRENCE	87	23
CONTRACT NO. 74A09				
ILLINOIS FED. AID PROJECT				



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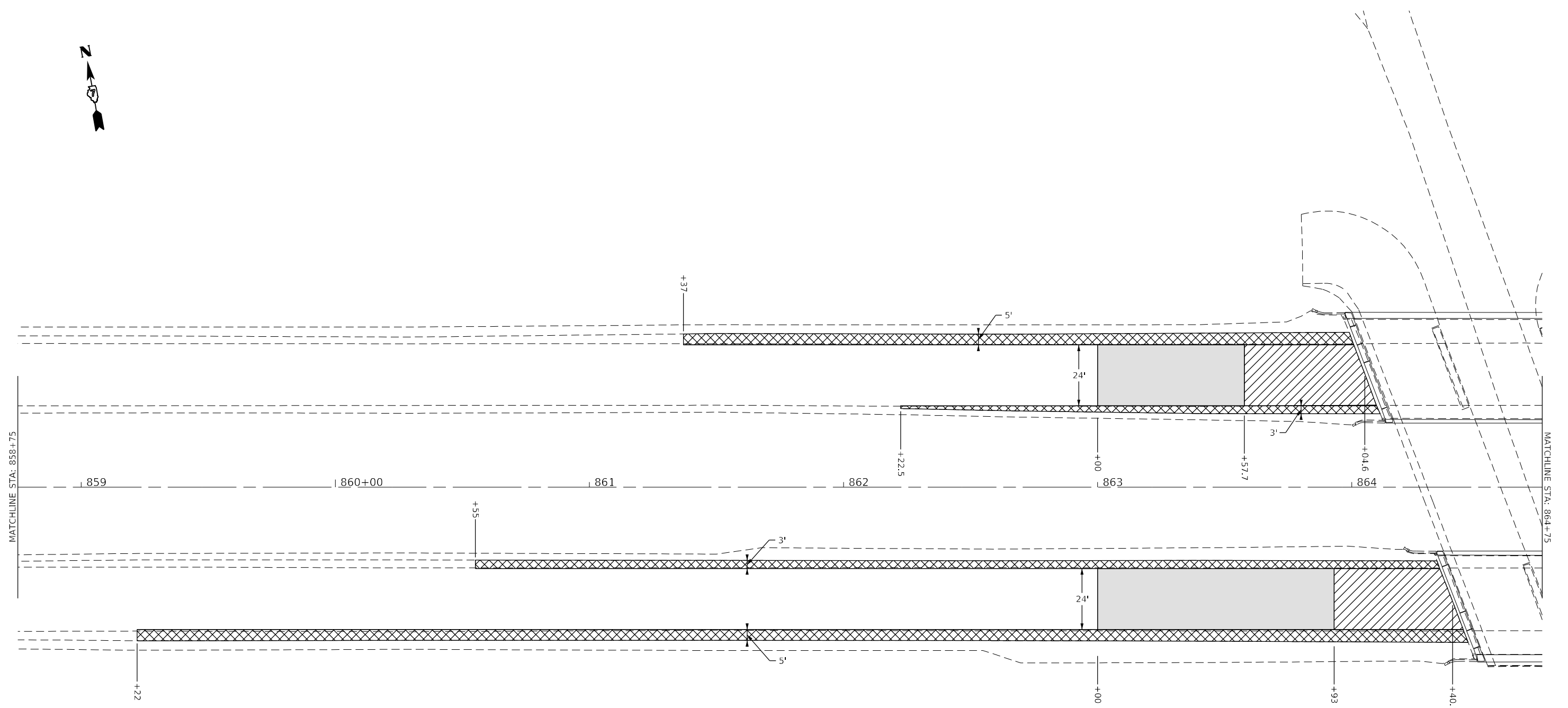
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	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

EROSION CONTROL SHEETS

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
327	(51-24HB-1)BR	LAWRENCE	87	24
ILLINOIS FED. AID PROJECT			CONTRACT NO. 74A09	



- PAVED SHOULDER REMOVAL
- HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH
- PAVEMENT REMOVAL

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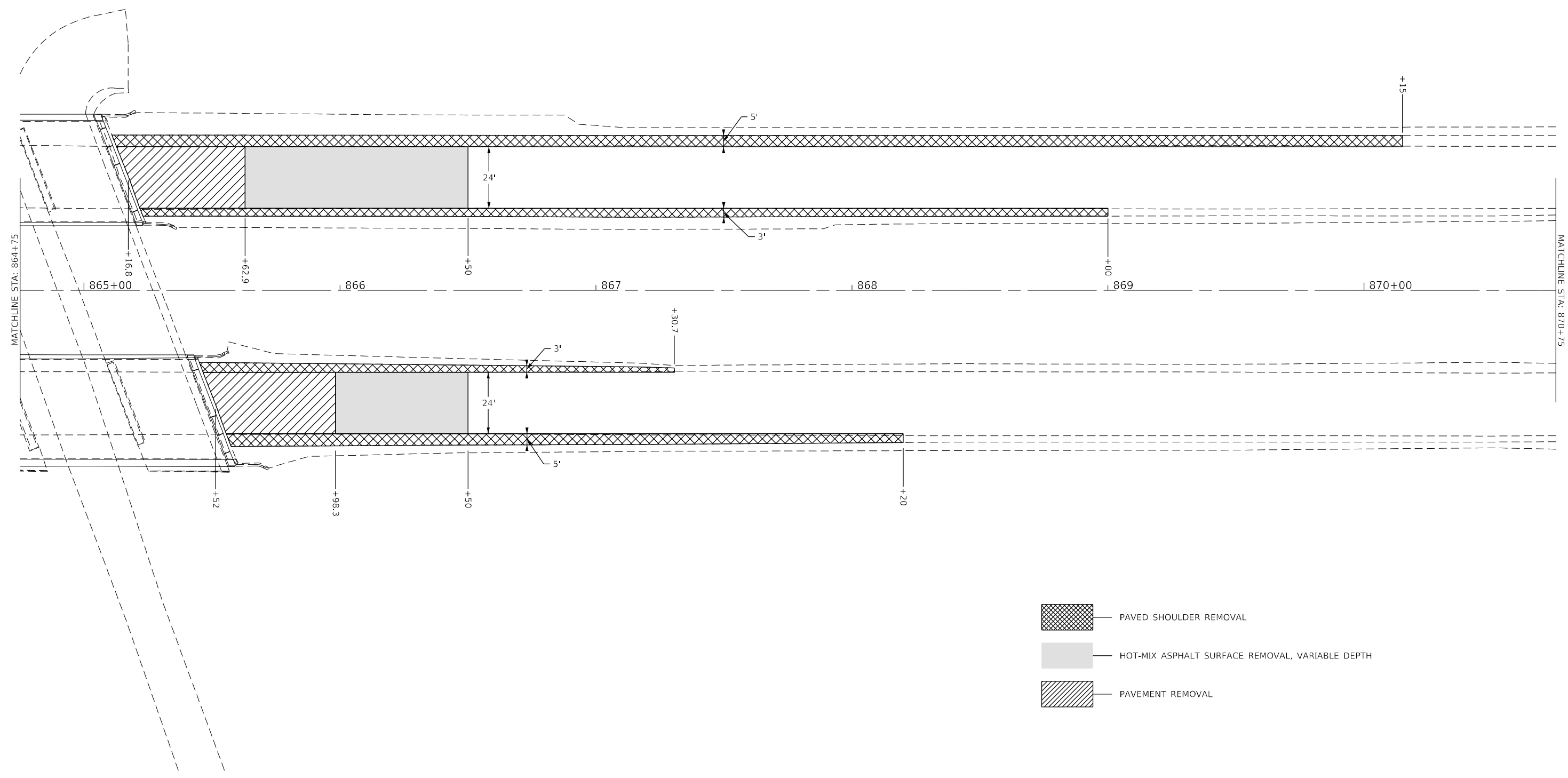
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

REMOVAL SHEETS

SCALE: SHEET 1 OF 2 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
327	(51-24HB-1)BR	LAWRENCE	87	25
CONTRACT NO. 74A09				
ILLINOIS FED. AID PROJECT				



- PAVED SHOULDER REMOVAL
- HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH
- PAVEMENT REMOVAL

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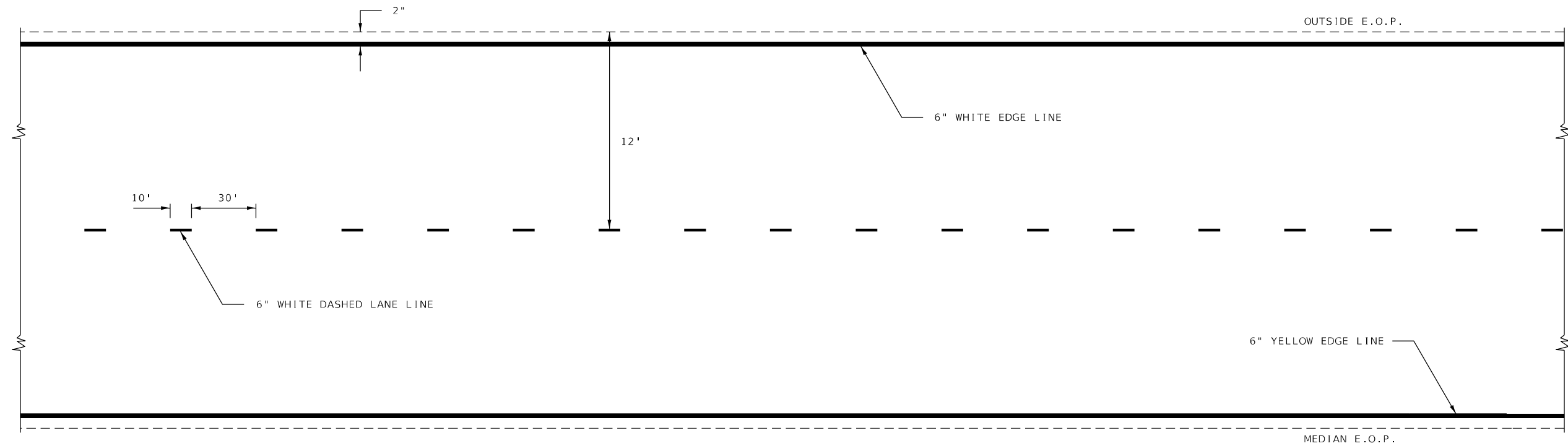
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

REMOVAL SHEETS

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
327	(51-24HB-1)BR	LAWRENCE	87	26
CONTRACT NO. 74A09				
ILLINOIS FED. AID PROJECT				



DRAWING NOT TO SCALE

TYPICAL CENTERLINE & EDGELINE MARKINGS

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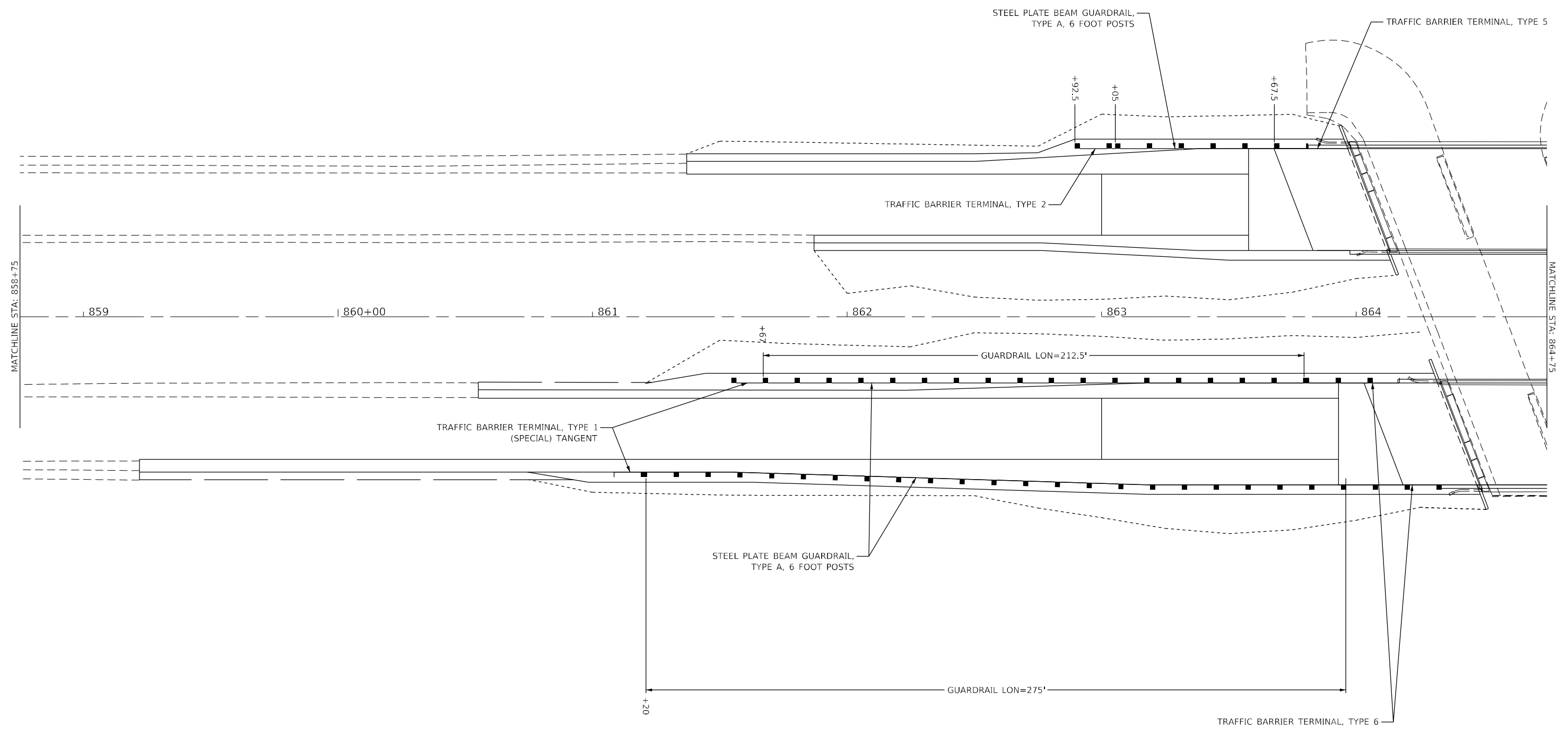
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

PAVEMENT MARKING DETAILS

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
327	(51-24HB-1)BR	LAWRENCE	87	27
CONTRACT NO. 74A09				
ILLINOIS FED. AID PROJECT				



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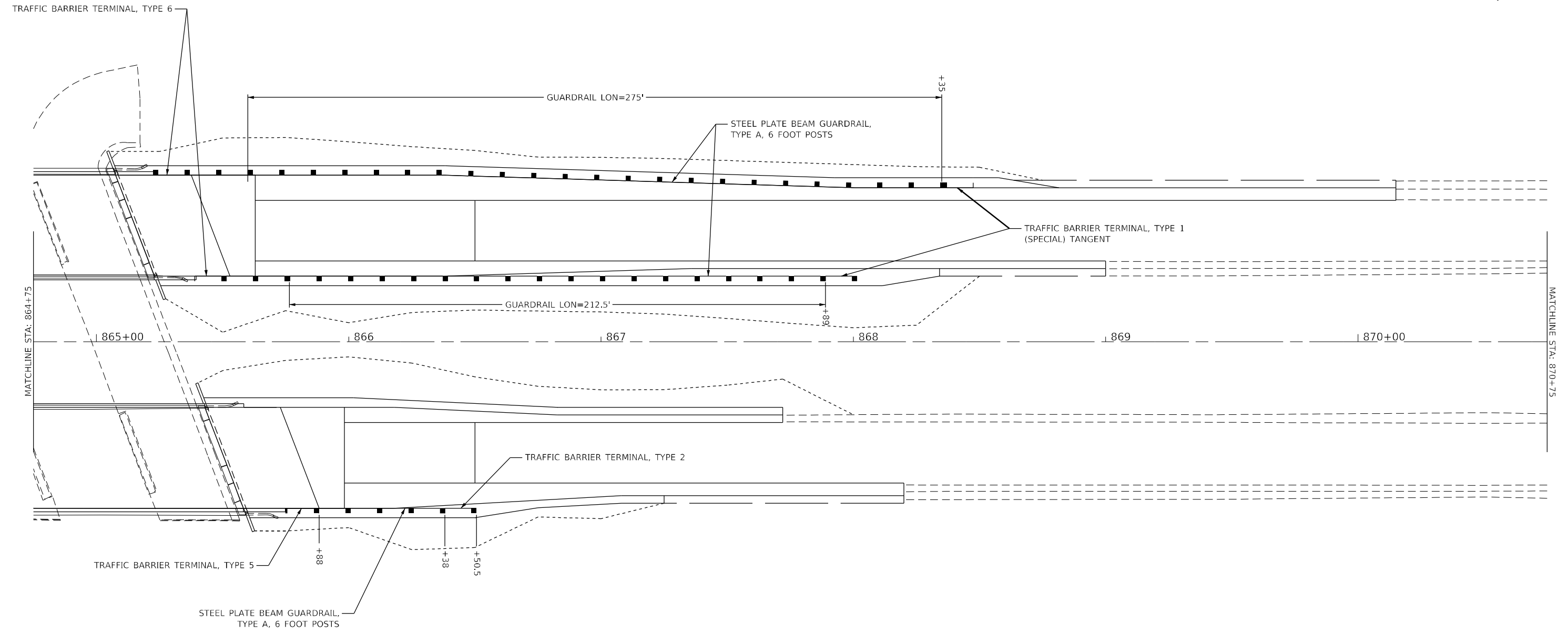
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	DRAWN -	REVISED -
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PLOT DATE = 10/6/2023	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GUARDRAIL DETAILS

SCALE: SHEET 1 OF 2 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
327	(51-24HB-1)BR	LAWRENCE	87	28
CONTRACT NO. 74A09				
ILLINOIS FED. AID PROJECT				



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USER NAME = jessica.hille	DESIGNED -	REVISED -
PLOT SCALE = 40,0000 * / in.	DRAWN -	REVISED -
PLOT DATE = 10/6/2023	CHECKED -	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GUARDRAIL DETAILS			
SCALE:	SHEET 2	OF 2 SHEETS	STA. TO STA.

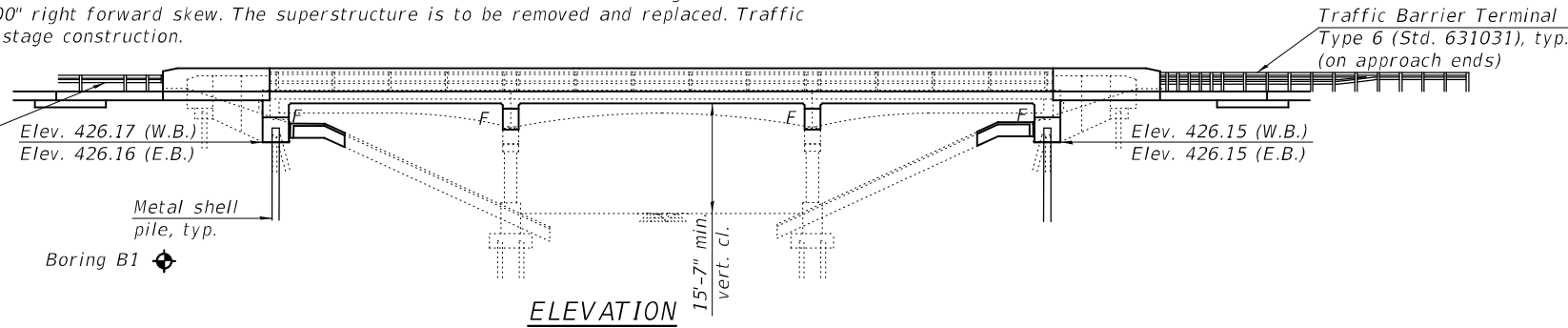
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
327	(51-24HB-1)BR	LAWRENCE	87	29
CONTRACT NO. 74A09			ILLINOIS FED. AID PROJECT	

Benchmark 440: Cut square on NW corner of SN 051-0022 E.B. Bridge, Sta. 864+29, 26ft. Rt of centerline survey, Elev. 432.713

Existing Structure: S.N. 051-0022 and 051-0023 were originally constructed in 1957 as part of F.A.I. Rt. 8, Section 51-24HB-1. The existing 3 span dual structure consists of continuous reinforced concrete T-beam superstructure with concrete deck supported on multi column piers and open abutments. The existing structure has a clear width of 39'-0" and out-to-out deck width of 43'-8". The back-to-back of abutment length is 112'-0". The structure is on a 21°00'00" right forward skew. The superstructure is to be removed and replaced. Traffic is to be maintained utilizing stage construction.

No Salvage

Traffic Barrier Terminal Type 5 (Std. 631026), typ. (on exterior departure ends)



DESIGN SPECIFICATIONS

2020 AASHTO LRFD Bridge Design Specifications, 9th Edition
2006 Seismic Retrofitting Manual for Highway Structures: Part 1 - Bridges

DESIGN STRESSES

EXISTING FIELD UNITS	FIELD UNITS
$f_c = 800$ psi (Substructure)	$f'_c = 3,500$ psi
$f_s = 20,000$ psi (Reinforcement)	$f'_c = 4,000$ psi (Superstructure)
	$f_y = 60,000$ psi (Reinforcement)

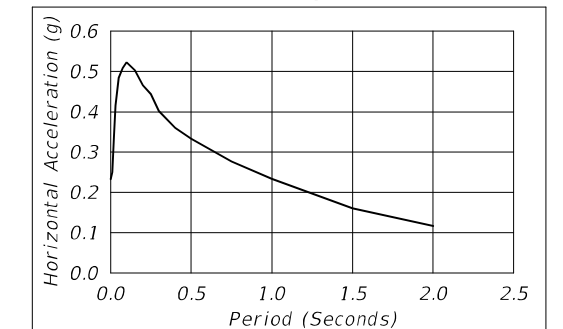
LOADING HL-93

Allow 25#/sq. ft. for future wearing surface.

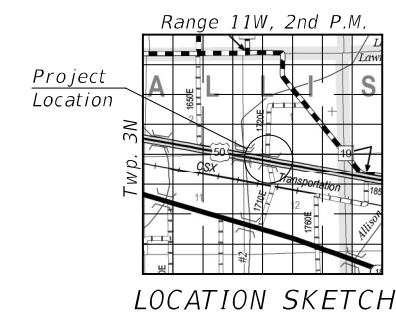
SEISMIC DATA

EXISTING CONSTRUCTION
Seismic Retrofit Category (SRC) = B
Design Spectral Acceleration at 1.0 sec. (SD1) = 0.234g
Performance Level : Life Safety
Soil Site Class = D

NEW CONSTRUCTION
2023 AASHTO Seismic Hazard Site Class D
Latitude 38.72° N, Longitude -87.59° W



SD1 = 0.234g
SDC = B

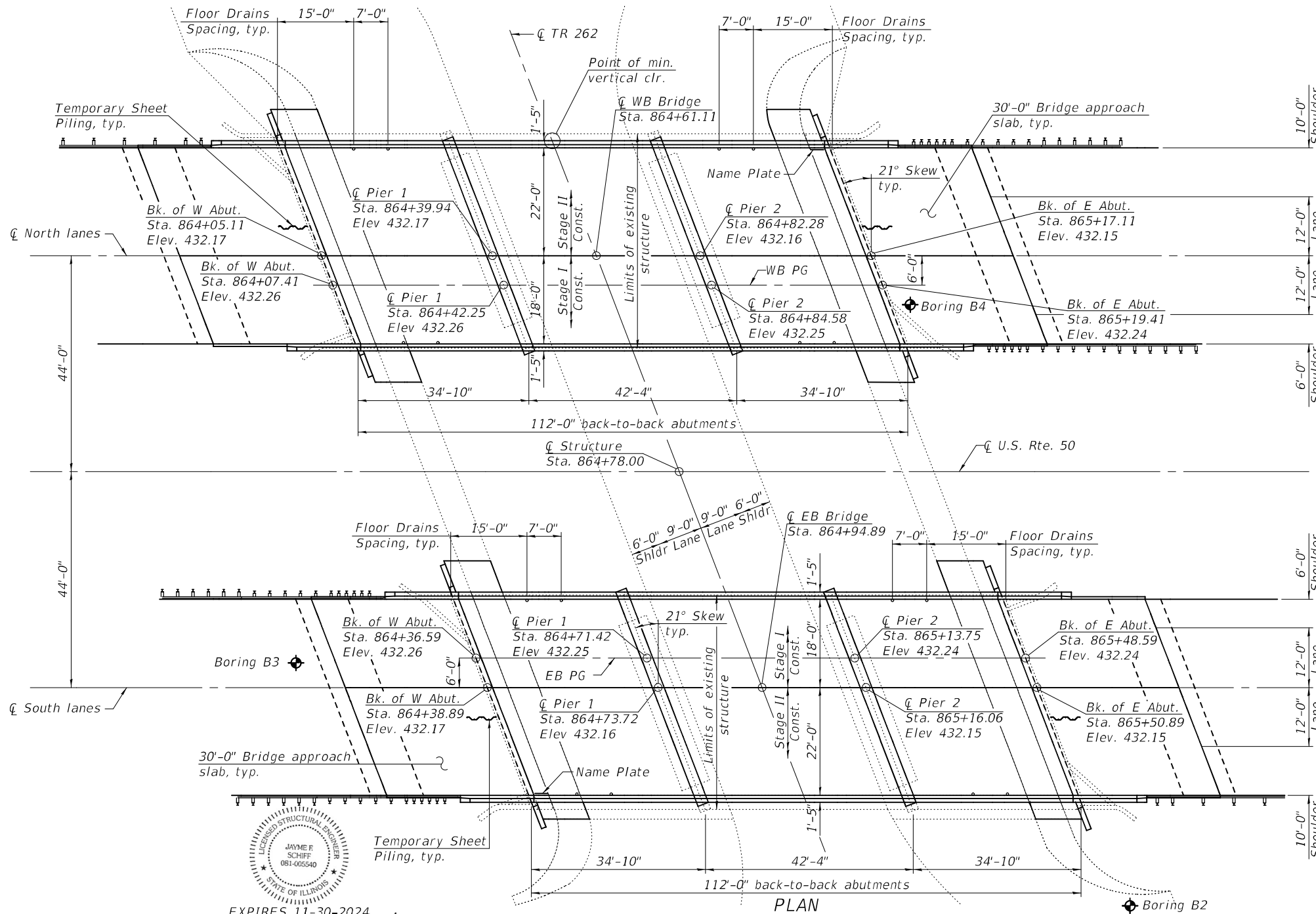


GENERAL PLAN & ELEVATION

U.S. RTE. 50 OVER TR 262
F.A.P. 327 - SEC. (51-24HB-1)BR

LAWRENCE COUNTY
STATION 864+78.00

STRUCTURE 051-0022 (E.B.) & 0023 (W.B.)



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EXPIRES 11-30-2024

DESIGNED -	TIFFANY L. MEIER
CHECKED -	RYAN P. NEGANGARD
DRAWN -	ANDRO R. SAMANIEGO
CHECKED -	T.L.M. / R.P.N.

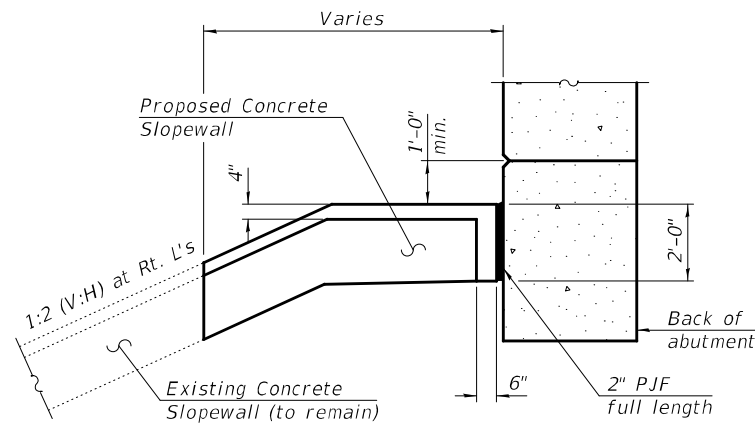
EXAMINED	<i>Mark Schiff</i>	DATE -	12/5/2023
PASSED	<i>Jayne Schiff</i>	REVISIONS	

REVISIONS	
REVISIONS	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SHEET 1 OF 33 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
327	(51-24HB-1)BR	LAWRENCE	87	30
ILLINOIS FED. AID PROJECT			CONTRACT NO. 74A09	



**SECTION THRU
CONCRETE SLOPEWALL**

Notes:

Removal of existing concrete slopewall, as required for abutment removal and construction, shall be included in the cost of Removal Existing Structures.

Slope walls shall be reinforced with welded wire fabric, 6"x 6" - W4.0 x W4.0, weighing 58 lbs. per 100 sq. ft.

INDEX OF SHEETS

- 1 - General Plan & Elevation
- 2 - General Data
- 3 - Stage Construction Details
- 4 - Temporary Sheet Piling
- 5 - Temporary Concrete Barrier
- 6-8 - Top of Slab Elevations
- 9-12 - Top of Approach Slab Elevations
- 13-14 - Superstructure
- 15-16 - Superstructure Details
- 17-19 - Bridge Approach Slab Details
- 20-22 - Abutment Details
- 23 - Substructure Removal and Repairs
- 24-26 - Pier Details
- 27 - Metal Shell Pile Details
- 28 - Concrete Parapet Slipforming Option
- 29 - Bar Splicer Assembly and Mechanical Splicer Details
- 30-33 - Soil Boring Logs

STATION 864+78.00
RE-BUILT 20 BY
STATE OF ILLINOIS
F.A.P. RTE. 327 - SEC. (51-24HB-1)BR
LOADING HL-93
STRUCTURE NO. 051-0022

STATION 864+78.00
RE-BUILT 20 BY
STATE OF ILLINOIS
F.A.P. RTE. 327 - SEC. (51-24HB-1)BR
LOADING HL-93
STRUCTURE NO. 051-0023

NAME PLATE
See Std. 515001

Existing Name Plate shall be cleaned and relocated next to new Name Plate. Cost included with Name Plates.

GENERAL NOTES

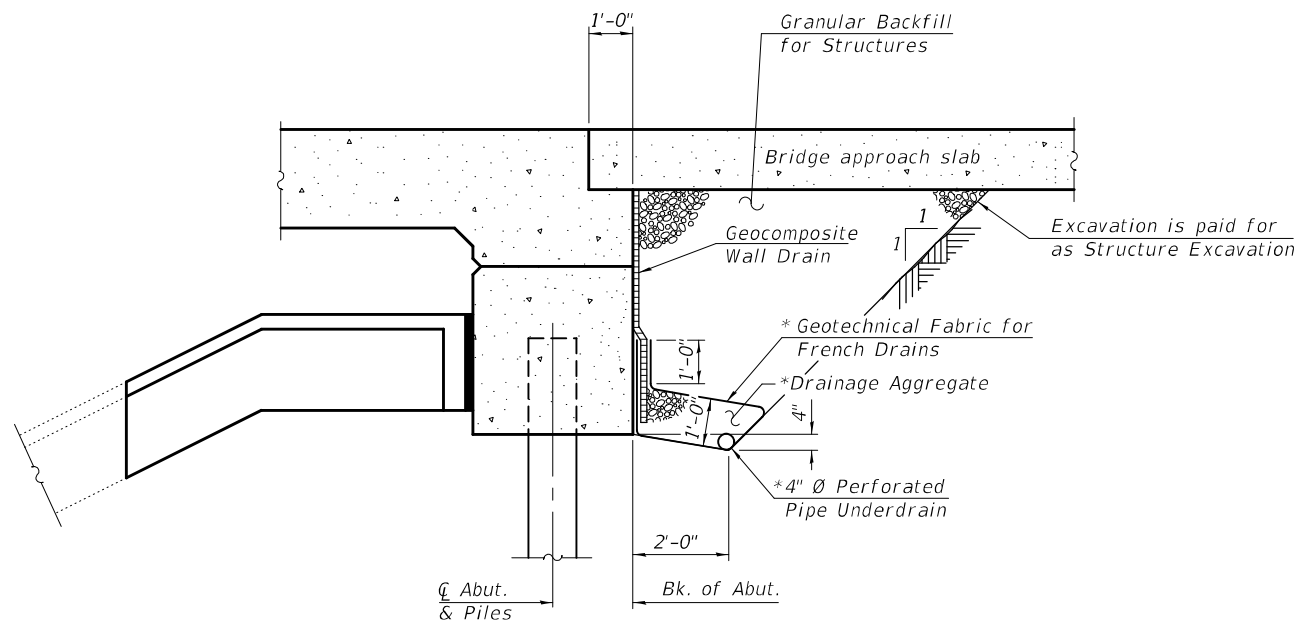
Plan dimensions and details relative to existing structure have been taken from existing plans are subject to nominal construction variations. The Contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in scope of the work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.

Reinforcement bars designated (E) shall be epoxy coated. The Contractor shall make allowance for the deflection of forms, shrinkage and settlement of falsework, in addition to allowance for dead load deflection.

Forms for deck slab shall be removed prior to placement of bridge approach slab. The existing bearings contain lead plates. The Contractor shall take appropriate precautions to deal with the presence of lead on this project.

The Contractor is advised that the existing concrete superstructure is a continuous structure and removal must be done in a proper sequence, possibly with falsework support. The sequence of removal and the use of any required falsework is the responsibility of the Contractor.

Removal of Existing Structures includes removal of existing superstructures and abutments. Existing piers are to remain and be re-used.

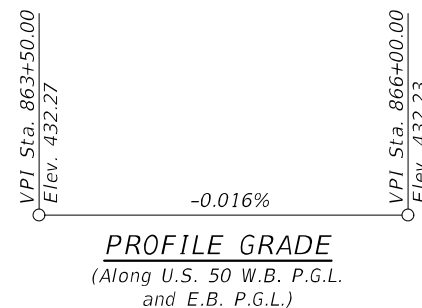


SECTION THRU INTEGRAL ABUTMENT
(Horiz. dim. @ Rt. L's)

* Included in the cost of Pipe Underdrains for Structures.

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 concrete headwalls. (See Article 601.05 of the Standard Specifications and Highway Standard 601101.)



TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Structure Excavation	Cu. Yd.		304	304
Removal of Existing Structures	Each	2		2
Concrete Structures	Cu. Yd.		181.0	181.0
Concrete Superstructure	Cu. Yd.	684.2		684.2
Bridge Deck Grooving	Sq. Yd.	1,434		1,434
Protective Coat	Sq. Yd.	1,776		1,776
Concrete Superstructure (Approach Slab)	Cu. Yd.	233.6		233.6
Reinforcement Bars, Epoxy Coated	Pound	278,550	18,280	296,830
Bar Splicers	Each	1,240	240	1,480
Furnishing Metal Shell Piles 12" X 0.250"	Foot		1,500	1,500
Driving Piles	Foot		1,500	1,500
Test Pile Metal Shells	Each		4	4
Name Plates	Each	2		2
Floor Drains	Each	16		16
Geocomposite Wall Drain	Sq. Yd.		108	108
Pipe Underdrains for Structures 4"	Foot		244	244
Granular Backfill for Structures	Cu. Yd.		170	170
Slope Wall 4 Inch	Sq. Yd.		70	70
Structural Repair of Concrete (Depth Equal to or Less Than 5 Inches)	Sq. Ft.		5	5
Temporary Sheet Piling	Sq. Ft.		474	474

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DESIGNED - TIFFANY L. MEIER	EXAMINED - <i>Mark Shuffler</i> ENGINEER OF BRIDGE DESIGN	DATE - DECEMBER 5, 2023
CHECKED - RYAN P. NEGANGARD	PASSED - <i>Jayne F. Schaff</i> ENGINEER OF BRIDGES AND STRUCTURES	REVISED -
DRAWN - ANDRO R. SAMANIEGO		REVISED -
CHECKED - T.L.M. / R.P.N.		

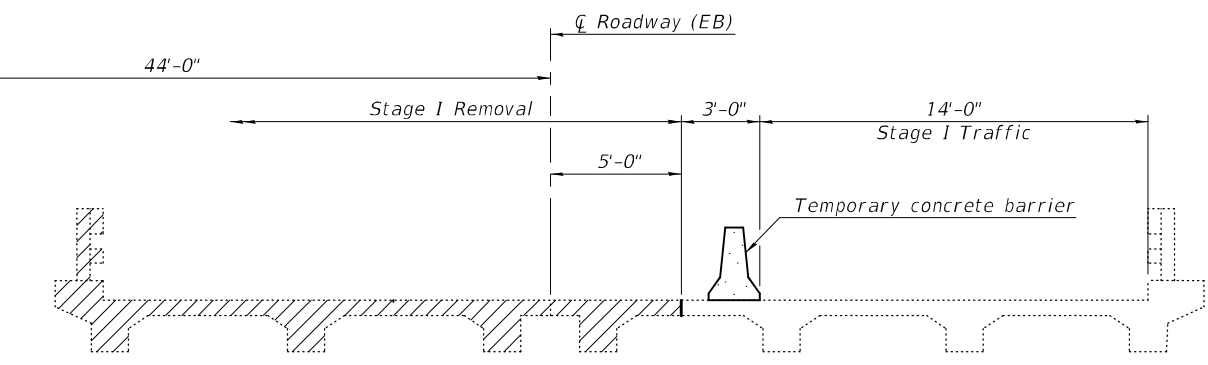
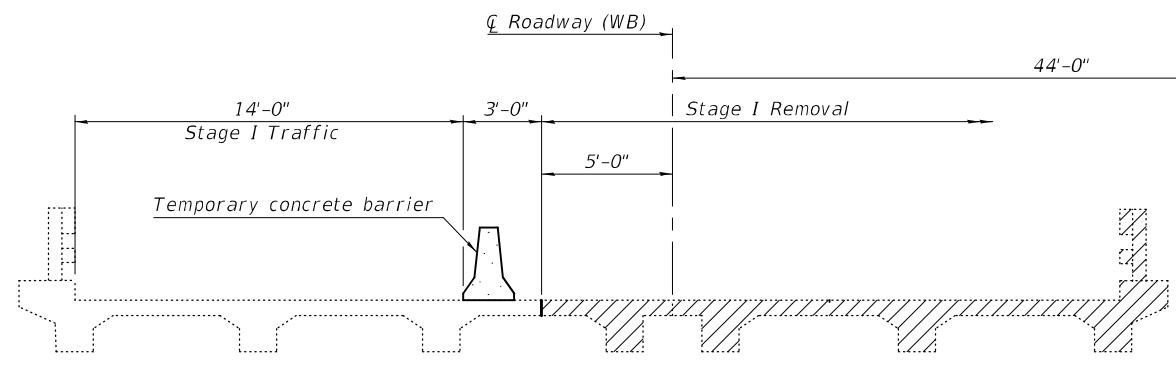
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**GENERAL DATA
STRUCTURE NO. 051-0022 (EB) & 051-0023 (WB)**

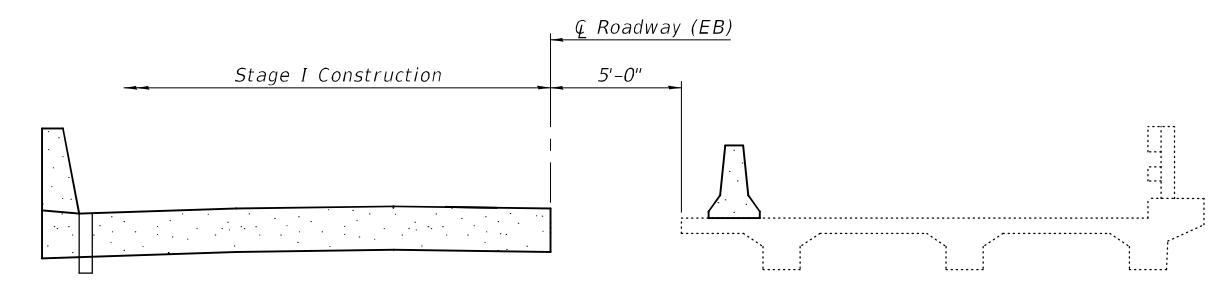
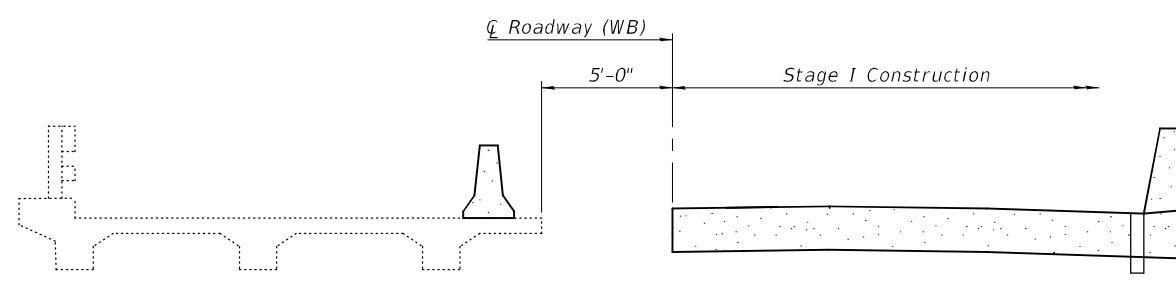
SHEET 2 OF 33 SHEETS

F.A.P. RTE. 327	SECTION (51-24HB-1)BR	COUNTY LAWRENCE	TOTAL SHEETS 87	SHEET NO. 31
			CONTRACT NO. 74A09	
		ILLINOIS FED. AID PROJECT		

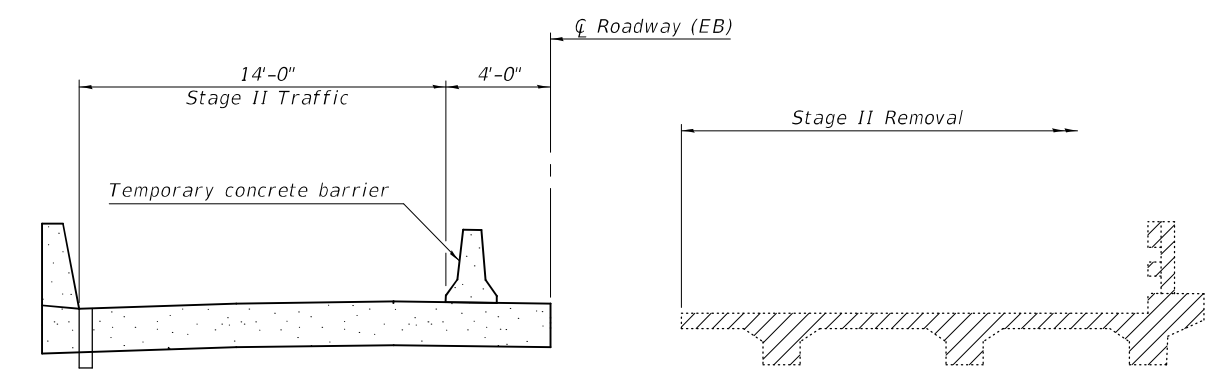
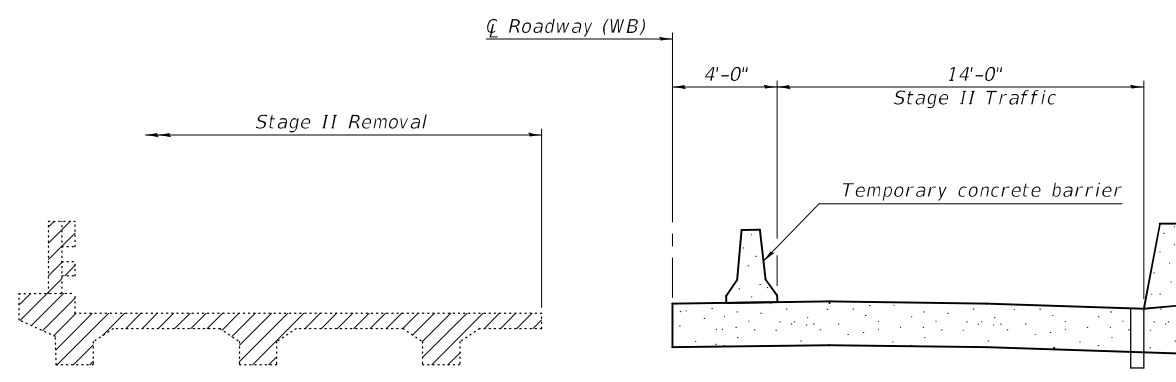
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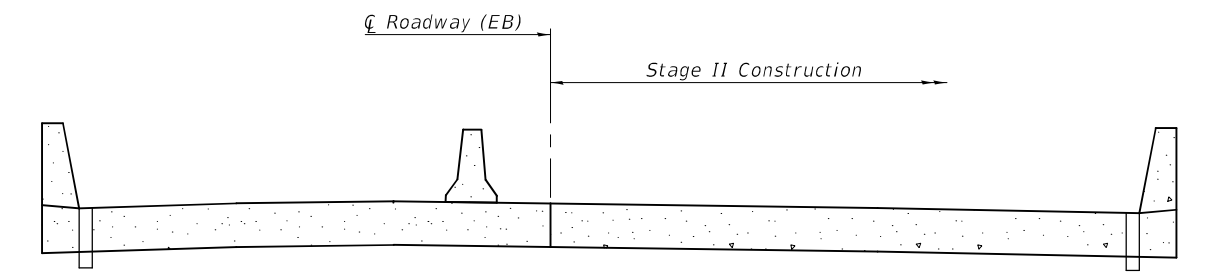
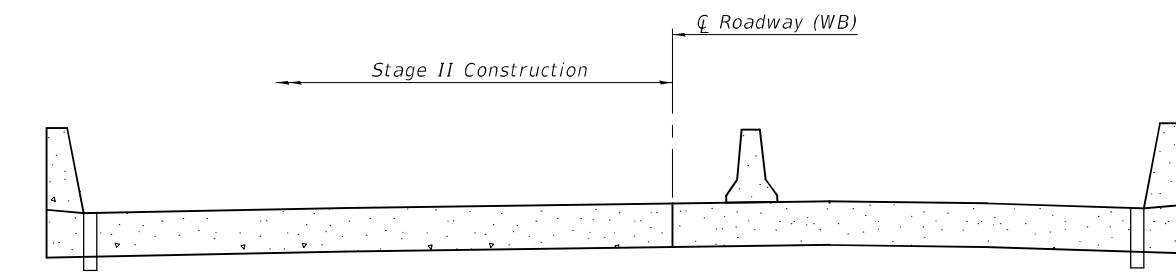
STAGE I REMOVAL



STAGE I CONSTRUCTION



STAGE II REMOVAL



STAGE II CONSTRUCTION

Notes:
 All cross sections are looking East.
 Hatched area indicates Removal of Existing Structures.
 For quantity of Temporary Concrete Barrier, see Roadway Plans. See sheet 5 of 33 for details.

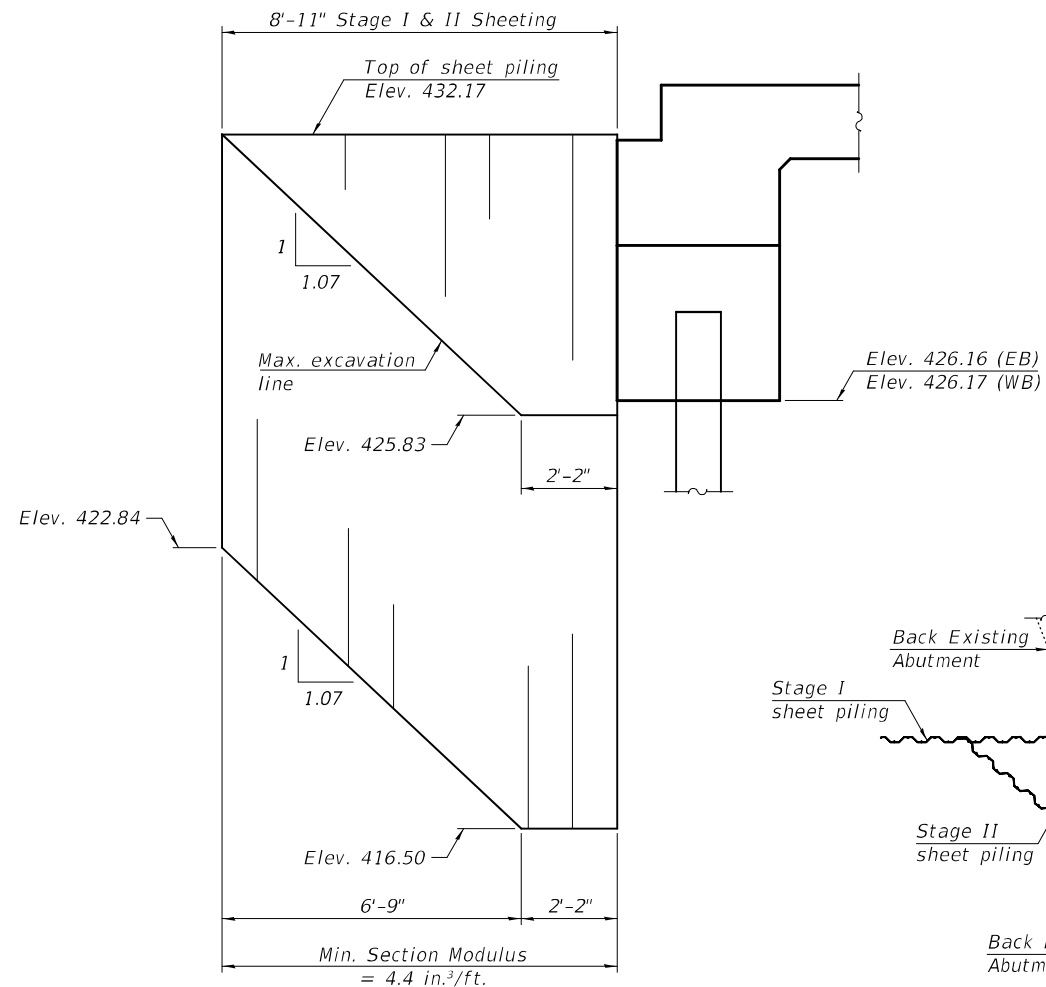
DESIGNED - TIFFANY L. MEIER	EXAMINED - <i>Mark Shuffler</i> ENGINEER OF BRIDGE DESIGN	DATE - DECEMBER 5, 2023
CHECKED - RYAN P. NEGANGARD	PASSED - <i>Jayne F. [Signature]</i> ENGINEER OF BRIDGES AND STRUCTURES	REVISED -
DRAWN - ANDRO R. SAMANIEGO		REVISED -
CHECKED - T.L.M. / R.P.N.		

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

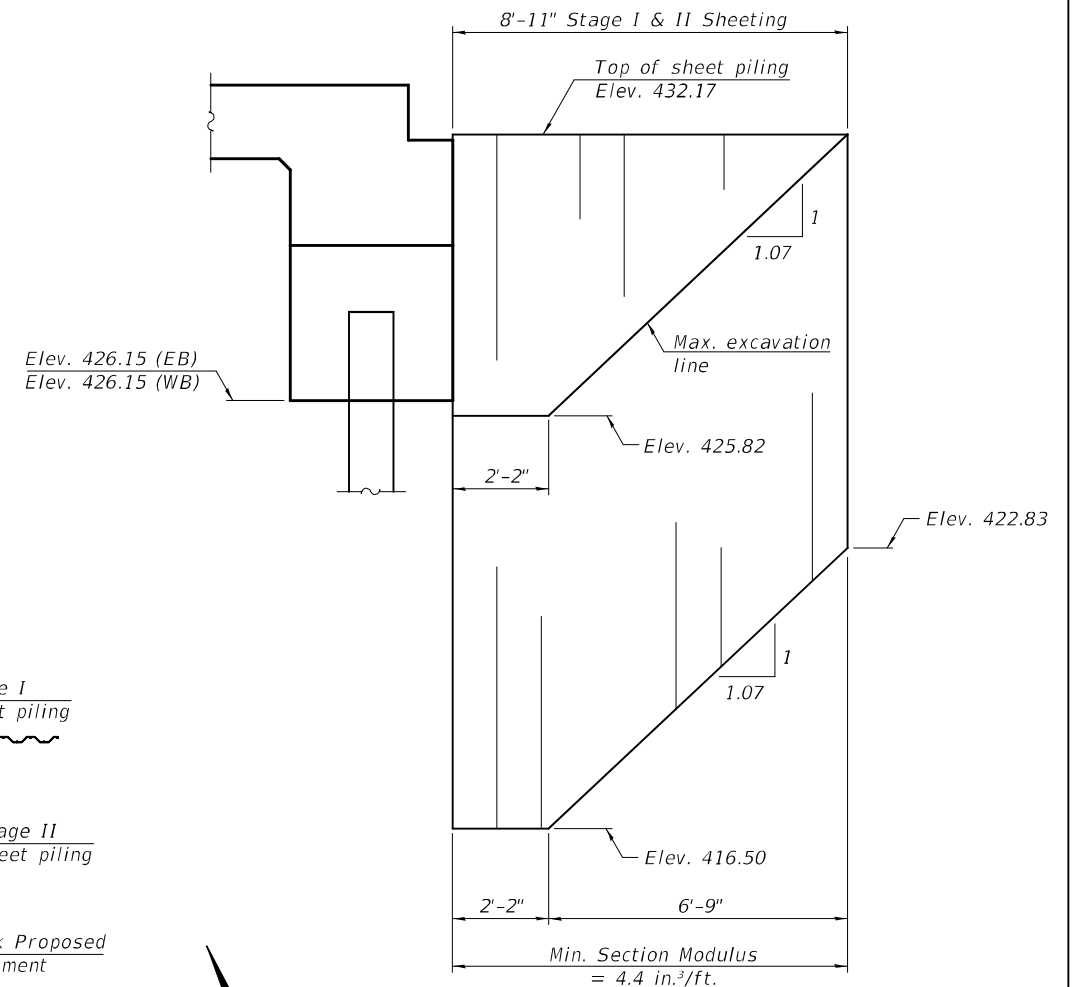
STAGE CONSTRUCTION DETAILS
 STRUCTURE NO. 051-0022 (EB) & 051-0023 (WB)

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
327	(51-24HB-1)BR	LAWRENCE	87	32
CONTRACT NO. 74A09				
ILLINOIS FED. AID PROJECT				

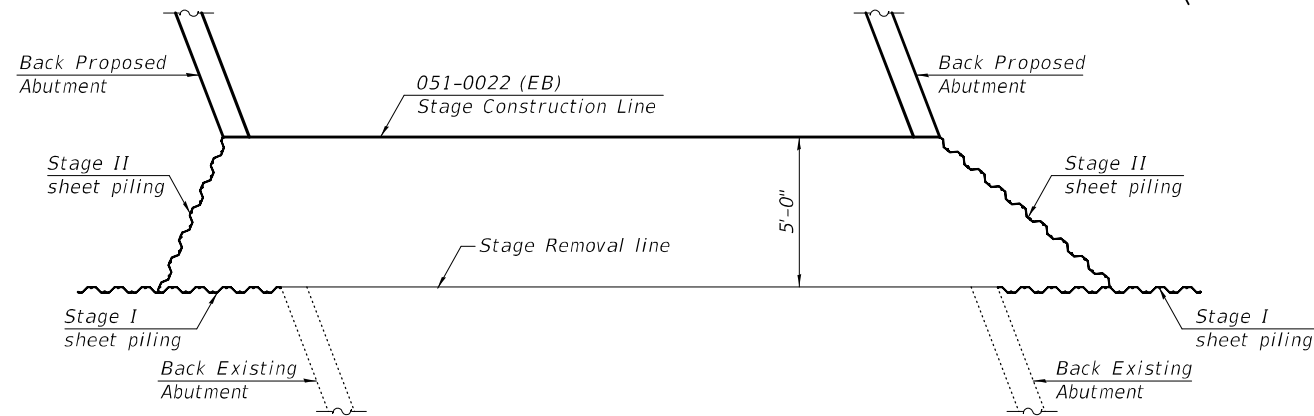
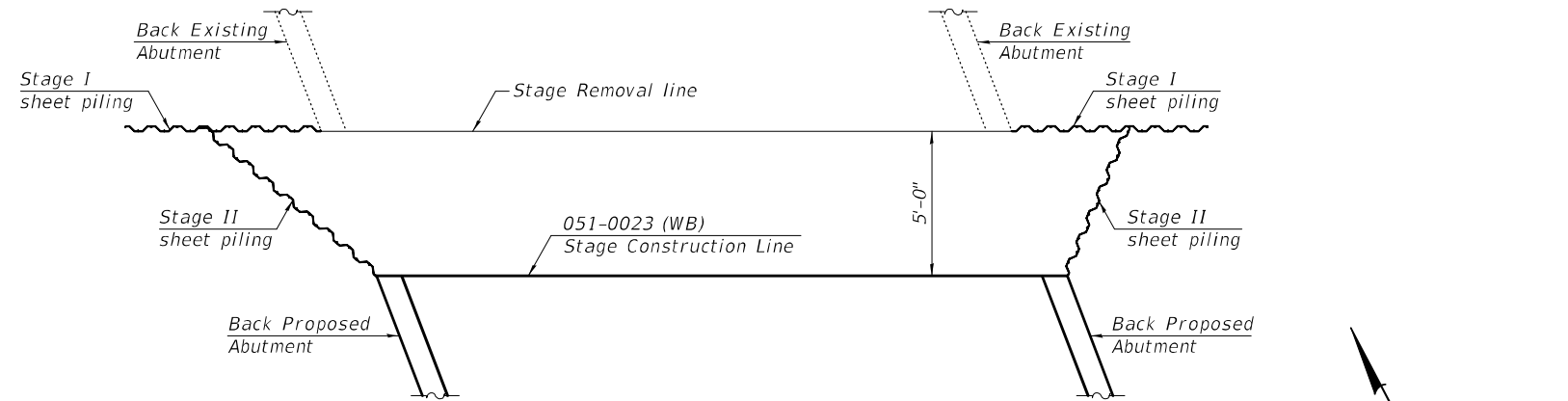
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TEMPORARY SHEET PILING
 (West Abutment looking North)



TEMPORARY SHEET PILING
 (East Abutment looking North)



TEMPORARY SHEET PILING PLAN

Note:
 If the Contractor chooses to alter the temporary cantilevered sheet piling design requirements shown on the plans, a design submittal including plan details and calculations will be required for review and acceptance by the Engineer.

DESIGNED - TIFFANY L. MEIER	EXAMINED - <i>Mark Shuffler</i> ENGINEER OF BRIDGE DESIGN	DATE - DECEMBER 5, 2023
CHECKED - RYAN P. NEGANGARD	PASSED - <i>Jayne F. [Signature]</i> ENGINEER OF BRIDGES AND STRUCTURES	REVISED -
DRAWN - ANDRO R. SAMANIEGO		REVISED -
CHECKED - T.L.M. / R.P.N.		

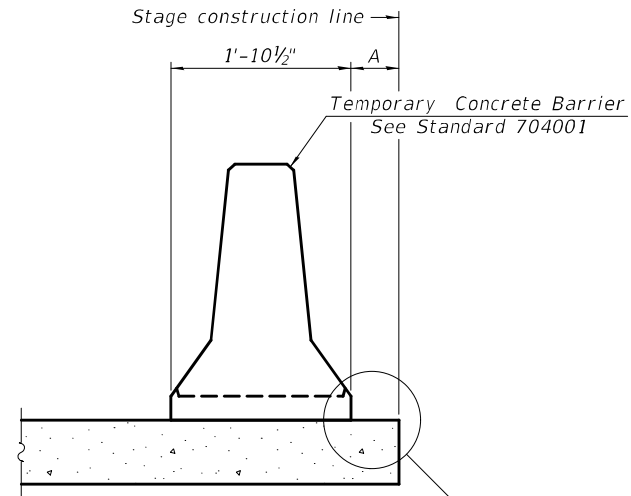
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY SHEET PILING
STRUCTURE NO. 051-0022 (EB) & 051-0023 (WB)

SHEET 4 OF 33 SHEETS

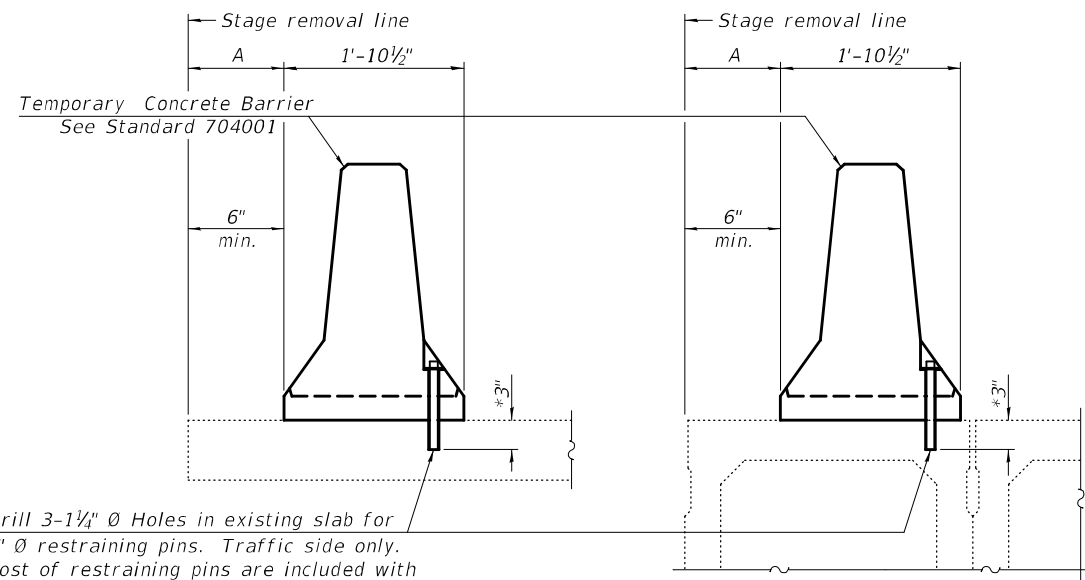
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327	(51-24HB-1)BR	LAWRENCE	87	33
CONTRACT NO. 74A09				
ILLINOIS FED. AID PROJECT				

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

NEW SLAB OR NEW DECK BEAM

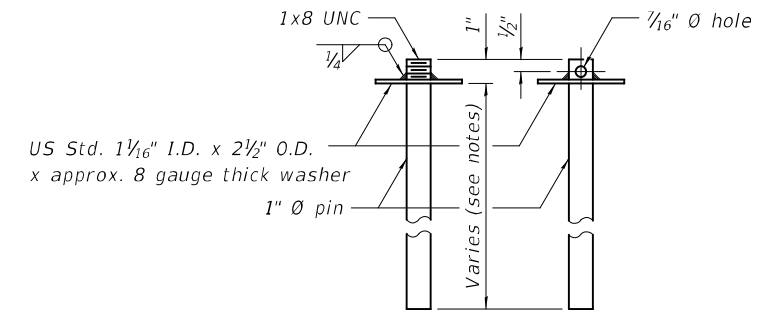


Drill 3-1/4" Ø Holes in existing slab for 1" Ø restraining pins. Traffic side only. Cost of restraining pins are included with Temporary Concrete Barrier. No restraint is required when "A" is greater than 3'-1".

EXISTING SLAB

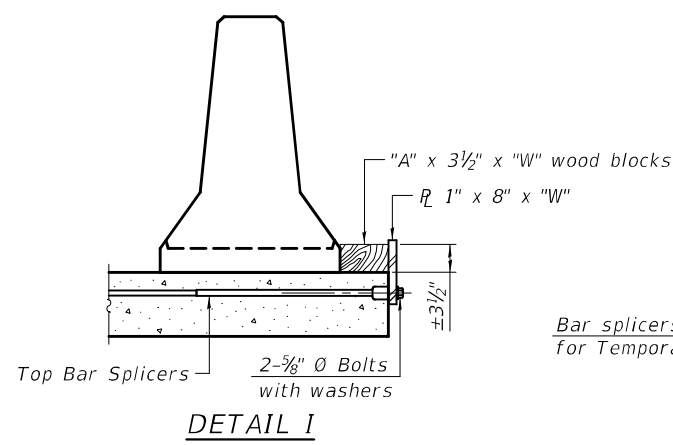
* When hot-mix asphalt wearing surface is present, embedment shall be 3" plus the wearing surface depth.

EXISTING DECK BEAM

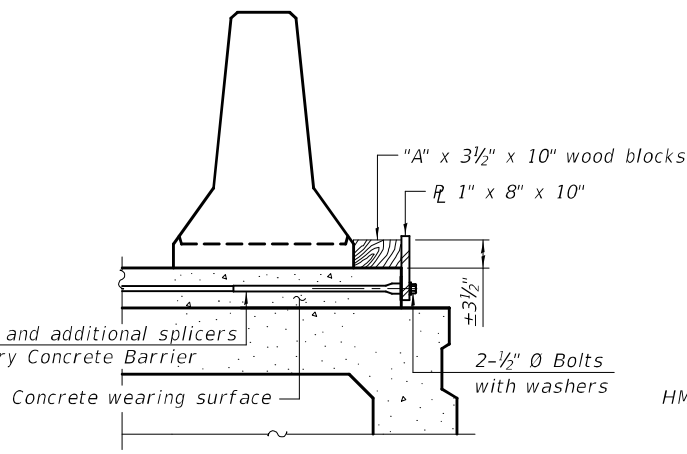


RESTRAINING PIN

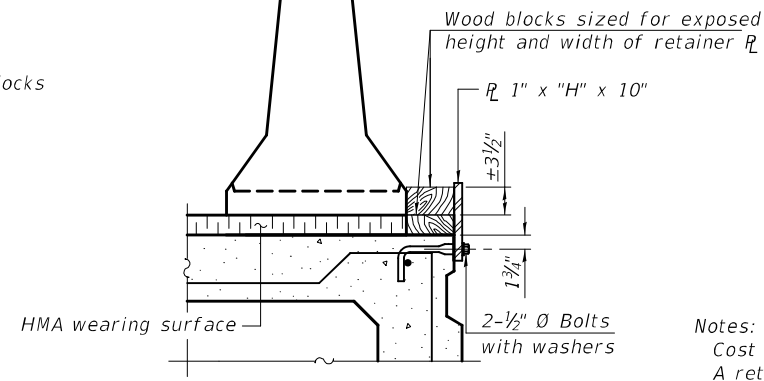
SECTIONS THRU SLAB OR DECK BEAM



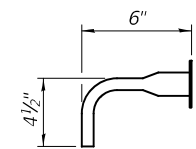
DETAIL I



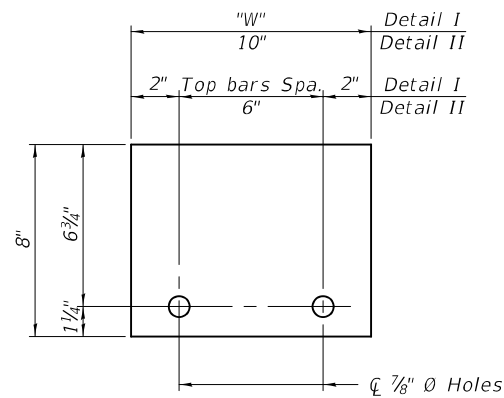
DETAIL II



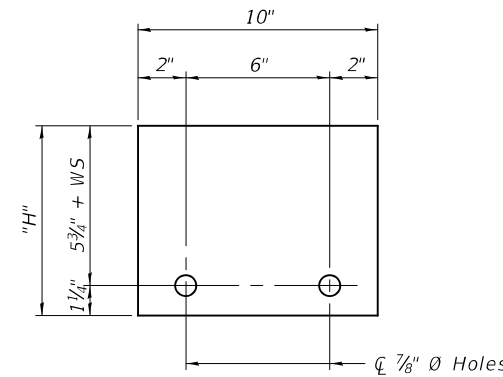
DETAIL III



BAR SPLICER FOR #4 BAR - DETAIL III



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



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

Notes:
 Cost of retainer assembly is included with Temporary Concrete Barrier.
 A retainer assembly shall be located at the approximate center of each temporary concrete barrier.
 The retainer plate shall not be removed until the concrete on the adjacent stage is ready to be poured. For Detail III applications the retainer plate shall not be removed until just prior to placing the adjacent beam.
 When the 'A' dimension is less than 1 1/2', the wood block shall be omitted and the barrier shall be placed in direct contact with the steel retainer plate. For deck beam applications the minimum required 'A' distance is 6" to accommodate the shear key clamping device.
Detail I - Installation for a new bridge deck or bridge slab.
Detail II - Installation for a new deck beam with an initial concrete wearing surface. Additional bar splicers shall be provided at 6'-0" centers and paired with the bar splicers of the concrete wearing surface reinforcement to accommodate the installation of the retainer assemblies. The cost of the additional bar splicers is included with the concrete wearing surface.
Detail III - Installation for a new deck beam with no initial wearing surface or with an initial hot-mix asphalt (HMA) wearing surface present. The deck beam directly beneath the temporary concrete barrier shall be fabricated with bar splicer inserts in the side of the beam, as detailed, to accommodate the installation of the retainer assemblies. A pair of bar splicers, 6" apart, shall be placed at 6'-0" centers along the length of the beam. The cost of the bar splicers is included with the deck beam.

RAILING CRITERIA

NCHRP 350 Test Level	3
Railing Weight (plf)	440

R-27 10-12-2021

DESIGNED -	TIFFANY L. MEIER	EXAMINED	
CHECKED -	RYAN P. NEGANGARD	PASSED	
DRAWN -	ANDRO R. SAMANIEGO		
CHECKED -	T.L.M. / R.P.N.		

DATE - DECEMBER 5, 2023
 Mark Shuffler
 ENGINEER OF BRIDGE DESIGN
 Jayne F. [Signature]
 ENGINEER OF BRIDGES AND STRUCTURES

REVIS	
REVIS	

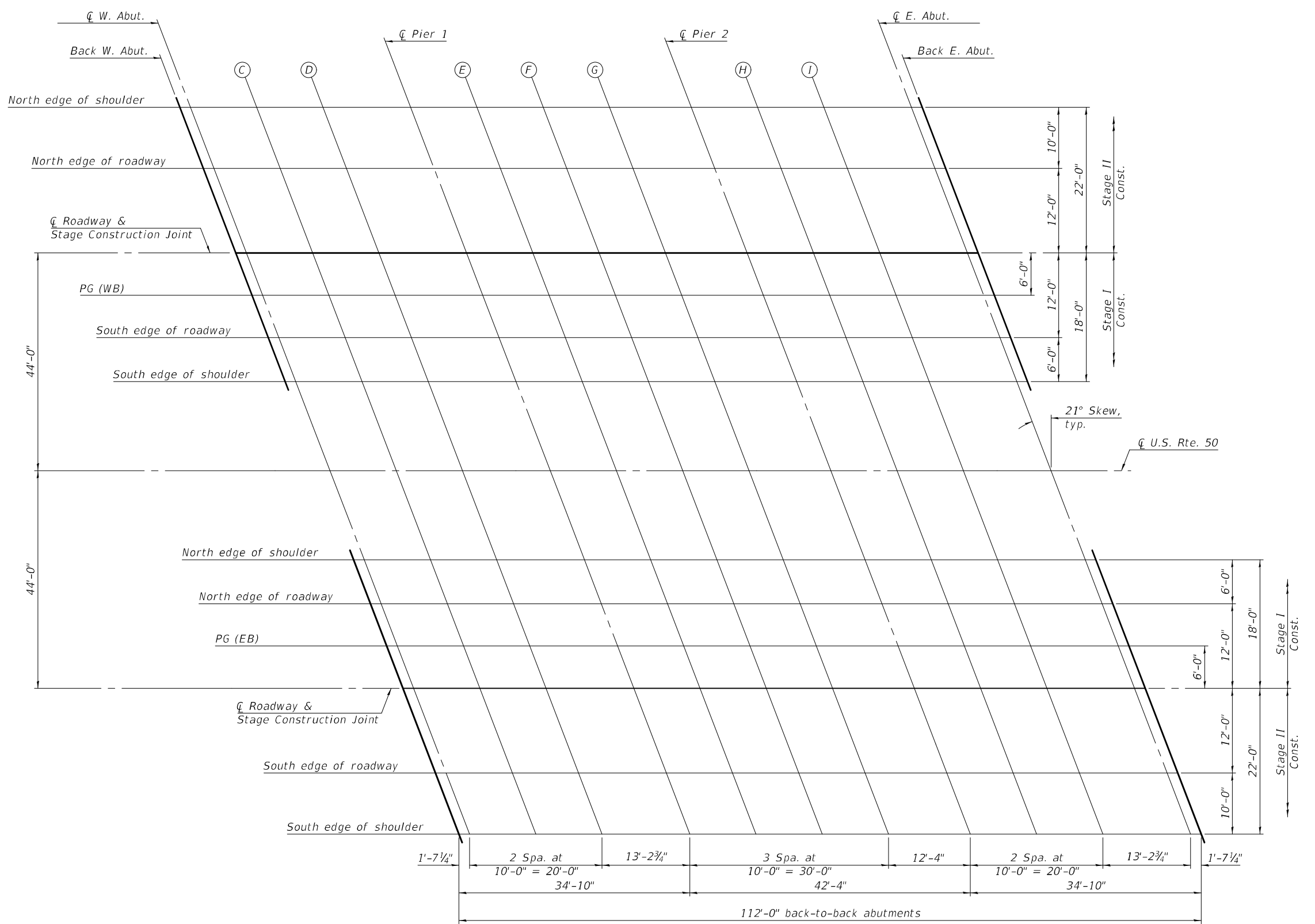
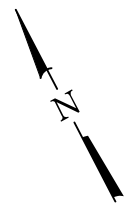
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**TEMPORARY CONCRETE BARRIER
 STRUCTURE NO. 051-0022 (EB) & 051-0023 (WB)**

SHEET 5 OF 33 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
327	(51-24HB-1)BR	LAWRENCE	87	34
			CONTRACT NO. 74A09	
		ILLINOIS	FED. AID PROJECT	

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PLAN

Note:
 The Dead Load Deflections are negligible.
 The Dead Load Deflection Diagram is not shown.

DESIGNED - TIFFANY L. MEIER	EXAMINED - <i>Mark Shuffler</i> ENGINEER OF BRIDGE DESIGN	DATE - DECEMBER 5, 2023
CHECKED - RYAN P. NEGANGARD	PASSED - <i>Jayne F. [Signature]</i> ENGINEER OF BRIDGES AND STRUCTURES	REVISED -
DRAWN - ANDRO R. SAMANIEGO		REVISED -
CHECKED - T.L.M. / R.P.N.		

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**TOP OF SLAB ELEVATION
 STRUCTURE NO. 051-0022 (EB) & 051-0023 (WB)**

F.A.P. RTE. 327	SECTION (51-24HB-1)BR	COUNTY LAWRENCE	TOTAL SHEETS 87	SHEET NO. 35
			CONTRACT NO. 74A09	
		ILLINOIS FED. AID PROJECT		

SHEET 6 OF 33 SHEETS

NORTH EDGE OF SHOULDER

Location	Station	Offset	Theoretical Grade Elevations
Bk. West Abutment	864+31.98	-12.00	432.05
☐ West Abutment	864+33.59	-12.00	432.05
C	864+43.59	-12.00	432.05
D	864+53.59	-12.00	432.04
☐ Pier 1	864+66.81	-12.00	432.04
E	864+76.81	-12.00	432.04
F	864+86.81	-12.00	432.04
G	864+96.81	-12.00	432.04
☐ Pier 2	865+09.15	-12.00	432.03
H	865+19.15	-12.00	432.03
I	865+29.15	-12.00	432.03
☐ East Abutment	865+42.37	-12.00	432.03
Bk. East Abutment	865+43.98	-12.00	432.03

NORTH EDGE OF ROADWAY

Location	Station	Offset	Theoretical Grade Elevations
Bk. West Abutment	864+34.28	-6.00	432.17
☐ West Abutment	864+35.89	-6.00	432.17
C	864+45.89	-6.00	432.16
D	864+55.89	-6.00	432.16
☐ Pier 1	864+69.12	-6.00	432.16
E	864+79.12	-6.00	432.16
F	864+89.12	-6.00	432.16
G	864+99.12	-6.00	432.16
☐ Pier 2	865+11.45	-6.00	432.15
H	865+21.45	-6.00	432.15
I	865+31.45	-6.00	432.15
☐ East Abutment	865+44.68	-6.00	432.15
Bk. East Abutment	865+46.28	-6.00	432.15

PG (EB)

Location	Station	Offset	Theoretical Grade Elevations
Bk. West Abutment	864+36.59	0.00	432.26
☐ West Abutment	864+38.19	0.00	432.26
C	864+48.19	0.00	432.25
D	864+58.19	0.00	432.25
☐ Pier 1	864+71.42	0.00	432.25
E	864+81.42	0.00	432.25
F	864+91.42	0.00	432.25
G	865+01.42	0.00	432.25
☐ Pier 2	865+13.75	0.00	432.24
H	865+23.75	0.00	432.24
I	865+33.75	0.00	432.24
☐ East Abutment	865+46.98	0.00	432.24
Bk. East Abutment	865+48.59	0.00	432.24

☐ ROADWAY & STAGE CONSTRUCTION JOINT

Location	Station	Offset	Theoretical Grade Elevations
Bk. West Abutment	864+38.89	6.00	432.17
☐ West Abutment	864+40.50	6.00	432.17
C	864+50.50	6.00	432.16
D	864+60.50	6.00	432.16
☐ Pier 1	864+73.72	6.00	432.16
E	864+83.72	6.00	432.16
F	864+93.72	6.00	432.16
G	865+03.72	6.00	432.16
☐ Pier 2	865+16.06	6.00	432.15
H	865+26.06	6.00	432.15
I	865+36.06	6.00	432.15
☐ East Abutment	865+49.28	6.00	432.15
Bk. East Abutment	865+50.89	6.00	432.15

SOUTH EDGE OF ROADWAY


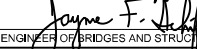
Location	Station	Offset	Theoretical Grade Elevations
Bk. West Abutment	864+43.50	18.00	431.99
☐ West Abutment	864+45.10	18.00	431.98
C	864+55.10	18.00	431.98
D	864+65.10	18.00	431.98
☐ Pier 1	864+78.33	18.00	431.98
E	864+88.33	18.00	431.98
F	864+98.33	18.00	431.98
G	865+08.33	18.00	431.97
☐ Pier 2	865+20.66	18.00	431.97
H	865+30.66	18.00	431.97
I	865+40.66	18.00	431.97
☐ East Abutment	865+53.89	18.00	431.97
Bk. East Abutment	865+55.50	18.00	431.97

SOUTH EDGE OF SHOULDER

Location	Station	Offset	Theoretical Grade Elevations
Bk. West Abutment	864+47.34	28.00	431.78
☐ West Abutment	864+48.94	28.00	431.78
C	864+58.94	28.00	431.78
D	864+68.94	28.00	431.78
☐ Pier 1	864+82.17	28.00	431.78
E	864+92.17	28.00	431.78
F	865+02.17	28.00	431.78
G	865+12.17	28.00	431.77
☐ Pier 2	865+24.50	28.00	431.77
H	865+34.50	28.00	431.77
I	865+44.50	28.00	431.77
☐ East Abutment	865+57.73	28.00	431.77
Bk. East Abutment	865+59.34	28.00	431.77

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12/6/2023 10:35:37 AM

DESIGNED -	TIFFANY L. MEIER
CHECKED -	RYAN P. NEGANARD
DRAWN -	ANDRO R. SAMANIEGO
CHECKED -	T.L.M. / R.P.N.

EXAMINED	
PASSED	

DATE -	DECEMBER 5, 2023
REVISED -	
REVISED -	

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TOP OF SLAB ELEVATION
STRUCTURE NO. 051-0022 (EB)**

SHEET 7 OF 33 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
327	(51-24HB-1)BR	LAWRENCE	87	36
			CONTRACT NO. 74A09	
		ILLINOIS	FED. AID PROJECT	

NORTH EDGE OF SHOULDER

Location	Station	Offset	Theoretical Grade Elevations
Bk. West Abutment	863+96.66	-28.00	431.79
☐ West Abutment	863+98.27	-28.00	431.79
C	864+08.27	-28.00	431.79
D	864+18.27	-28.00	431.79
☐ Pier 1	864+31.50	-28.00	431.79
E	864+41.50	-28.00	431.79
F	864+51.50	-28.00	431.78
G	864+61.50	-28.00	431.78
☐ Pier 2	864+73.83	-28.00	431.78
H	864+83.83	-28.00	431.78
I	864+93.83	-28.00	431.78
☐ East Abutment	865+07.06	-28.00	431.77
Bk. East Abutment	865+08.67	-28.00	431.77

NORTH EDGE OF ROADWAY

Location	Station	Offset	Theoretical Grade Elevations
Bk. West Abutment	864+00.50	-18.00	431.99
☐ West Abutment	864+02.11	-18.00	431.99
C	864+12.11	-18.00	431.99
D	864+22.11	-18.00	431.99
☐ Pier 1	864+35.34	-18.00	431.99
E	864+45.34	-18.00	431.98
F	864+55.34	-18.00	431.98
G	864+65.34	-18.00	431.98
☐ Pier 2	864+77.67	-18.00	431.98
H	864+87.67	-18.00	431.98
I	864+97.67	-18.00	431.98
☐ East Abutment	865+10.90	-18.00	431.97
Bk. East Abutment	865+12.50	-18.00	431.97

☐ ROADWAY & STAGE CONSTRUCTION JOINT

Location	Station	Offset	Theoretical Grade Elevations
Bk. West Abutment	864+05.11	-6.00	432.17
☐ West Abutment	864+06.72	-6.00	432.17
C	864+16.72	-6.00	432.17
D	864+26.72	-6.00	432.17
☐ Pier 1	864+39.94	-6.00	432.17
E	864+49.94	-6.00	432.16
F	864+59.94	-6.00	432.16
G	864+69.94	-6.00	432.16
☐ Pier 2	864+82.28	-6.00	432.16
H	864+92.28	-6.00	432.16
I	865+02.28	-6.00	432.16
☐ East Abutment	865+15.50	-6.00	432.15
Bk. East Abutment	865+17.11	-6.00	432.15

PG (WB)

Location	Station	Offset	Theoretical Grade Elevations
Bk. West Abutment	864+07.41	0.00	432.26
☐ West Abutment	864+09.02	0.00	432.26
C	864+19.02	0.00	432.26
D	864+29.02	0.00	432.26
☐ Pier 1	864+42.25	0.00	432.26
E	864+52.25	0.00	432.25
F	864+62.25	0.00	432.25
G	864+72.25	0.00	432.25
☐ Pier 2	864+84.58	0.00	432.25
H	864+94.58	0.00	432.25
I	865+04.58	0.00	432.25
☐ East Abutment	865+17.81	0.00	432.24
Bk. East Abutment	865+19.41	0.00	432.24

SOUTH EDGE OF ROADWAY



Location	Station	Offset	Theoretical Grade Elevations
Bk. West Abutment	864+09.72	6.00	432.17
☐ West Abutment	864+11.32	6.00	432.17
C	864+21.32	6.00	432.17
D	864+31.32	6.00	432.17
☐ Pier 1	864+44.55	6.00	432.16
E	864+54.55	6.00	432.16
F	864+64.55	6.00	432.16
G	864+74.55	6.00	432.16
☐ Pier 2	864+86.88	6.00	432.16
H	864+96.88	6.00	432.16
I	865+06.88	6.00	432.15
☐ East Abutment	865+20.11	6.00	432.15
Bk. East Abutment	865+21.72	6.00	432.15

SOUTH EDGE OF SHOULDER

Location	Station	Offset	Theoretical Grade Elevations
Bk. West Abutment	864+12.02	12.00	432.05
☐ West Abutment	864+13.63	12.00	432.05
C	864+23.63	12.00	432.05
D	864+33.63	12.00	432.05
☐ Pier 1	864+46.85	12.00	432.04
E	864+56.85	12.00	432.04
F	864+66.85	12.00	432.04
G	864+76.85	12.00	432.04
☐ Pier 2	864+89.19	12.00	432.04
H	864+99.19	12.00	432.04
I	865+09.19	12.00	432.03
☐ East Abutment	865+22.41	12.00	432.03
Bk. East Abutment	865+24.02	12.00	432.03

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DESIGNED -	TIFFANY L. MEIER
CHECKED -	RYAN P. NEGANGARD
DRAWN -	ANDRO R. SAMANIEGO
CHECKED -	T.L.M. / R.P.N.

EXAMINED	
PASSED	

DATE -	DECEMBER 5, 2023
REVISED -	
REVISED -	

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TOP OF SLAB ELEVATION
STRUCTURE NO. 051-0023 (WB)**

SHEET 8 OF 33 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
327	(51-24HB-1)BR	LAWRENCE	87	37
			CONTRACT NO. 74A09	
		ILLINOIS FED. AID PROJECT		

NORTH EDGE OF SHOULDER

Location	Station	Offset	Theoretical Grade Elevations
W. End of W. Appr. Slab	864+03.05	-12.00	432.05
A	864+13.05	-12.00	432.05
B	864+23.05	-12.00	432.05
E. End of W. Appr. Slab	864+33.05	-12.00	432.05

NORTH EDGE OF ROADWAY

Location	Station	Offset	Theoretical Grade Elevations
W. End of W. Appr. Slab	864+05.35	-6.00	432.17
A	864+15.35	-6.00	432.17
B	864+25.35	-6.00	432.17
E. End of W. Appr. Slab	864+35.35	-6.00	432.17

PG (EB)

Location	Station	Offset	Theoretical Grade Elevations
W. End of W. Appr. Slab	864+07.66	0.00	432.26
A	864+17.66	0.00	432.26
B	864+27.66	0.00	432.26
E. End of W. Appr. Slab	864+37.66	0.00	432.26

☐ ROADWAY & STAGE CONSTRUCTION JOINT

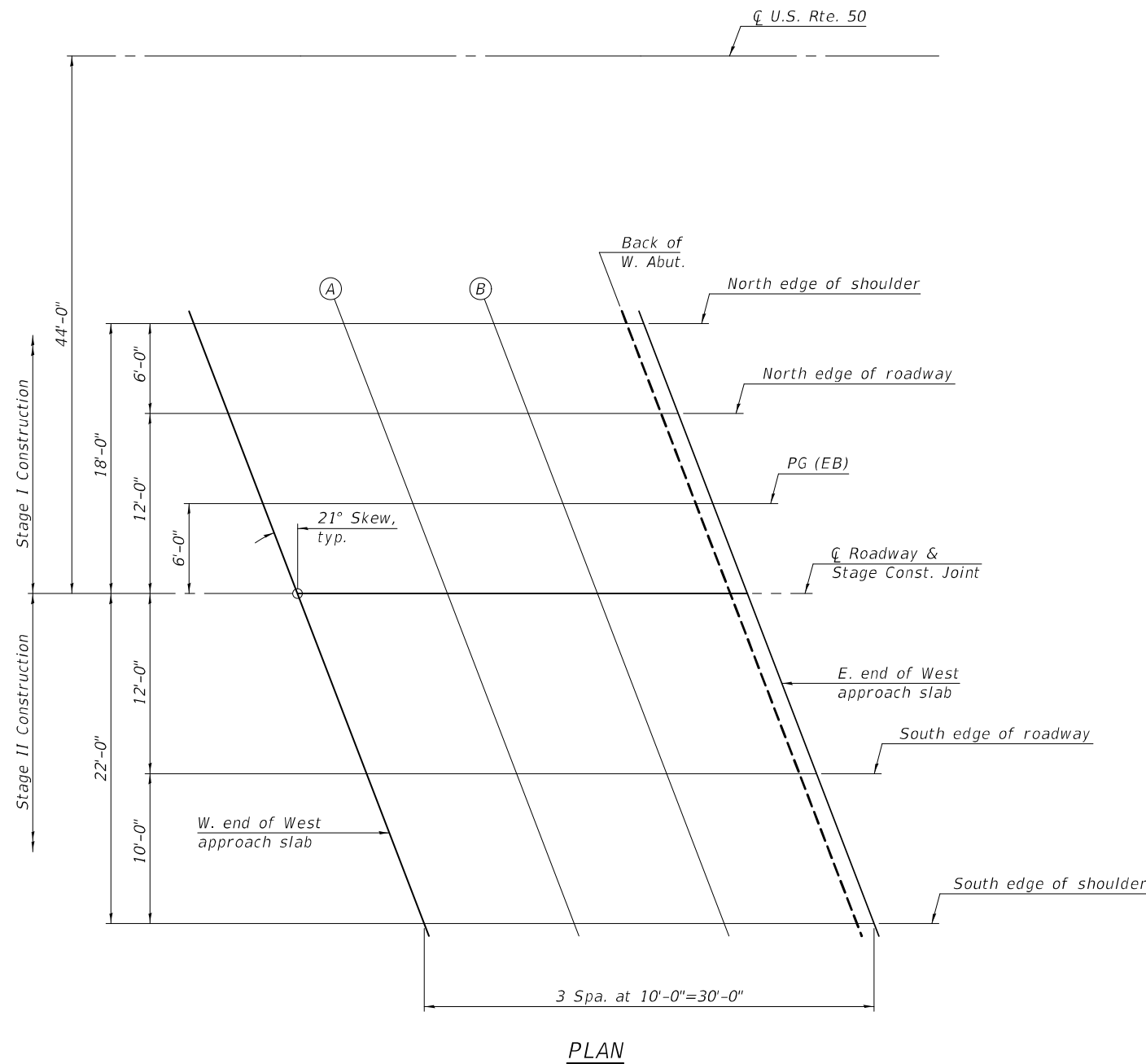
Location	Station	Offset	Theoretical Grade Elevations
W. End of W. Appr. Slab	864+09.96	6.00	432.17
A	864+19.96	6.00	432.17
B	864+29.96	6.00	432.17
E. End of W. Appr. Slab	864+39.96	6.00	432.17

SOUTH EDGE OF ROADWAY

Location	Station	Offset	Theoretical Grade Elevations
W. End of W. Appr. Slab	864+14.57	18.00	431.99
A	864+24.57	18.00	431.99
B	864+34.57	18.00	431.99
E. End of W. Appr. Slab	864+44.57	18.00	431.98

SOUTH EDGE OF SHOULDER

Location	Station	Offset	Theoretical Grade Elevations
W. End of W. Appr. Slab	864+18.41	28.00	431.79
A	864+28.41	28.00	431.79
B	864+38.41	28.00	431.79
E. End of W. Appr. Slab	864+48.41	28.00	431.78



PLAN

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DESIGNED -	TIFFANY L. MEIER
CHECKED -	RYAN P. NEGANGARD
DRAWN -	ANDRO R. SAMANIEGO
CHECKED -	T.L.M. / R.P.N.

EXAMINED	<i>Mark Shuffen</i> ENGINEER OF BRIDGE DESIGN
PASSED	<i>Jaime F. ...</i> ENGINEER OF BRIDGES AND STRUCTURES

DATE -	DECEMBER 5, 2023
REVISED -	
REVISED -	

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TOP OF WEST APPROACH SLAB ELEVATIONS
STRUCTURE NO. 051-0022 (EB)**

SHEET 9 OF 33 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
327	(51-24HB-1)BR	LAWRENCE	87	38
CONTRACT NO. 74A09				
ILLINOIS FED. AID PROJECT				

NORTH EDGE OF SHOULDER

Location	Station	Offset	Theoretical Grade Elevations
W. End of E. Appr. Slab	865+42.91	-12.00	432.03
J	865+52.91	-12.00	432.03
K	865+62.91	-12.00	432.03
E. End of E. Appr. Slab	865+72.91	-12.00	432.02

NORTH EDGE OF ROADWAY

Location	Station	Offset	Theoretical Grade Elevations
W. End of E. Appr. Slab	865+45.21	-6.00	432.15
J	865+55.21	-6.00	432.15
K	865+65.21	-6.00	432.15
E. End of E. Appr. Slab	865+75.21	-6.00	432.14

PG (EB)

Location	Station	Offset	Theoretical Grade Elevations
W. End of E. Appr. Slab	865+47.52	0.00	432.24
J	865+57.52	0.00	432.24
K	865+67.52	0.00	432.24
E. End of E. Appr. Slab	865+77.52	0.00	432.23

☐ ROADWAY & STAGE CONSTRUCTION JOINT

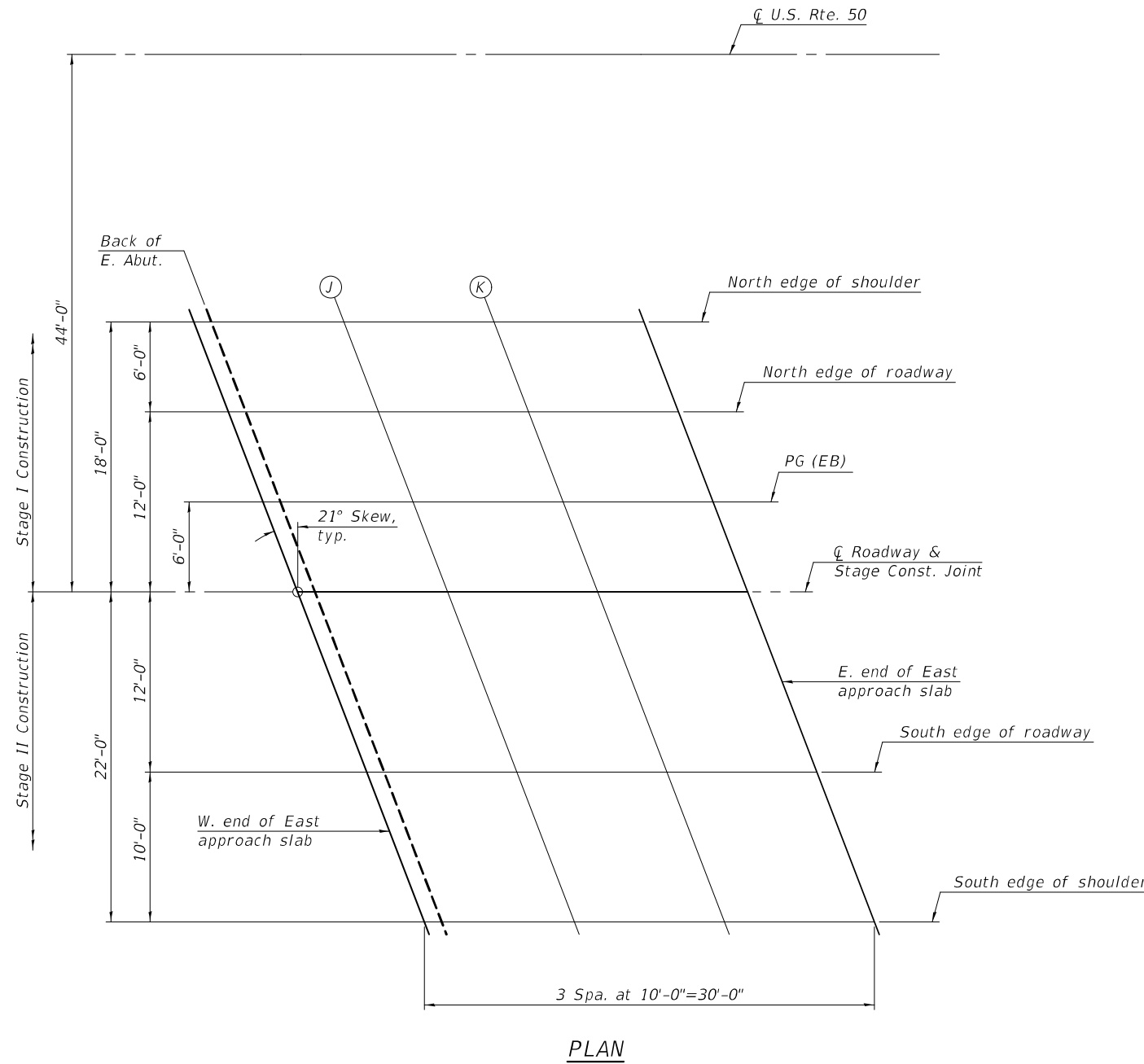
Location	Station	Offset	Theoretical Grade Elevations
W. End of E. Appr. Slab	865+49.82	6.00	432.15
J	865+59.82	6.00	432.15
K	865+69.82	6.00	432.14
E. End of E. Appr. Slab	865+79.82	6.00	432.14

SOUTH EDGE OF ROADWAY

Location	Station	Offset	Theoretical Grade Elevations
W. End of E. Appr. Slab	865+54.43	18.00	431.97
J	865+64.43	18.00	431.97
K	865+74.43	18.00	431.96
E. End of E. Appr. Slab	865+84.43	18.00	431.96

SOUTH EDGE OF SHOULDER

Location	Station	Offset	Theoretical Grade Elevations
W. End of E. Appr. Slab	865+58.26	28.00	431.77
J	865+68.26	28.00	431.77
K	865+78.26	28.00	431.76
E. End of E. Appr. Slab	865+88.26	28.00	431.76



PLAN

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DESIGNED -	TIFFANY L. MEIER
CHECKED -	RYAN P. NEGANGARD
DRAWN -	ANDRO R. SAMANIEGO
CHECKED -	T.L.M. / R.P.N.

EXAMINED	<i>Mark Shuffler</i> ENGINEER OF BRIDGE DESIGN
PASSED	<i>James F. [Signature]</i> ENGINEER OF BRIDGES AND STRUCTURES

DATE -	DECEMBER 5, 2023
REVISED -	
REVISED -	

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TOP OF EAST APPROACH SLAB ELEVATIONS
STRUCTURE NO. 051-0022 (EB)**

SHEET 10 OF 33 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
327	(51-24HB-1)BR	LAWRENCE	87	39
CONTRACT NO. 74A09				
ILLINOIS FED. AID PROJECT				

NORTH EDGE OF SHOULDER

Location	Station	Offset	Theoretical Grade Elevations
W. End of W. Appr. Slab	863+67.74	-28.00	431.80
A	863+77.74	-28.00	431.80
B	863+87.74	-28.00	431.79
E. End of W. Appr. Slab	863+97.74	-28.00	431.79

NORTH EDGE OF ROADWAY

Location	Station	Offset	Theoretical Grade Elevations
W. End of W. Appr. Slab	863+71.57	-18.00	432.00
A	863+81.57	-18.00	431.99
B	863+91.57	-18.00	431.99
E. End of W. Appr. Slab	864+01.57	-18.00	431.99

☐ ROADWAY & STAGE CONSTRUCTION JOINT

Location	Station	Offset	Theoretical Grade Elevations
W. End of W. Appr. Slab	863+76.18	-6.00	432.18
A	863+86.18	-6.00	432.17
B	863+96.18	-6.00	432.17
E. End of W. Appr. Slab	864+06.18	-6.00	432.17

PG (WB)

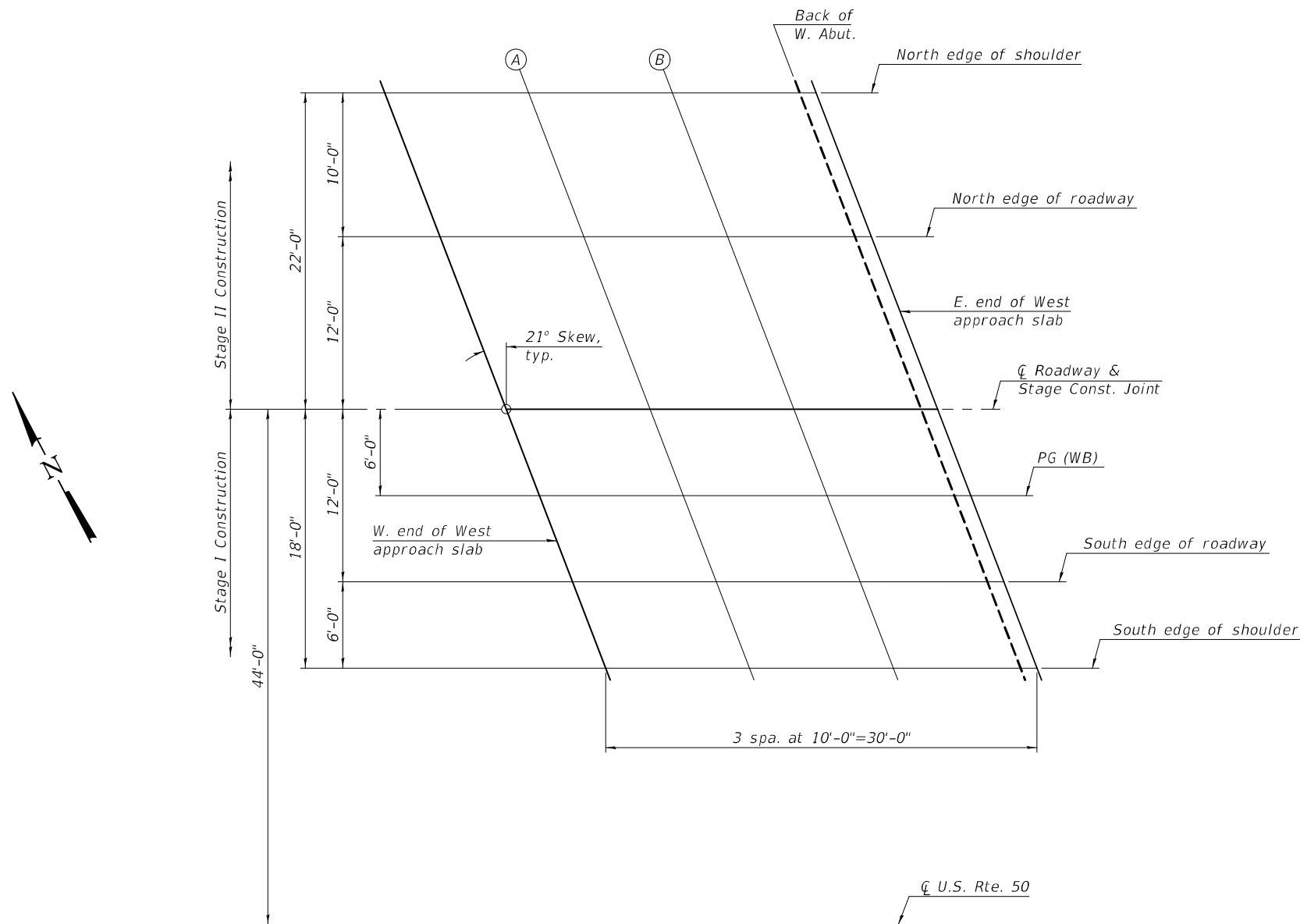
Location	Station	Offset	Theoretical Grade Elevations
W. End of W. Appr. Slab	863+78.48	0.00	432.27
A	863+88.48	0.00	432.26
B	863+98.48	0.00	432.26
E. End of W. Appr. Slab	864+08.48	0.00	432.26

SOUTH EDGE OF ROADWAY

Location	Station	Offset	Theoretical Grade Elevations
W. End of W. Appr. Slab	863+80.79	6.00	432.18
A	863+90.79	6.00	432.17
B	864+00.79	6.00	432.17
E. End of W. Appr. Slab	864+10.79	6.00	432.17

SOUTH EDGE OF SHOULDER

Location	Station	Offset	Theoretical Grade Elevations
W. End of W. Appr. Slab	863+83.09	12.00	432.05
A	863+93.09	12.00	432.05
B	864+03.09	12.00	432.05
E. End of W. Appr. Slab	864+13.09	12.00	432.05



PLAN

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DESIGNED -	TIFFANY L. MEIER
CHECKED -	RYAN P. NEGANGARD
DRAWN -	ANDRO R. SAMANIEGO
CHECKED -	T.L.M. / R.P.N.

EXAMINED	<i>Mark Shuffler</i> ENGINEER OF BRIDGE DESIGN	DATE -	DECEMBER 5, 2023
PASSED	<i>Jayne F. Hoff</i> ENGINEER OF BRIDGES AND STRUCTURES	REVISED -	
		REVISED -	

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TOP OF WEST APPROACH SLAB ELEVATIONS
STRUCTURE NO. 051-0023 (WB)**

SHEET 11 OF 33 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
327	(51-24HB-1)BR	LAWRENCE	87	40
			CONTRACT NO. 74A09	
		ILLINOIS FED. AID PROJECT		

NORTH EDGE OF SHOULDER

Location	Station	Offset	Theoretical Grade Elevations
W. End of E. Appr. Slab	865+07.59	-28.00	431.77
J	865+17.59	-28.00	431.77
K	865+27.59	-28.00	431.77
E. End of E. Appr. Slab	865+37.59	-28.00	431.77

NORTH EDGE OF ROADWAY

Location	Station	Offset	Theoretical Grade Elevations
W. End of E. Appr. Slab	865+11.43	-18.00	431.97
J	865+21.43	-18.00	431.97
K	865+31.43	-18.00	431.97
E. End of E. Appr. Slab	865+41.43	-18.00	431.97

☐ ROADWAY & STAGE CONSTRUCTION JOINT

Location	Station	Offset	Theoretical Grade Elevations
W. End of E. Appr. Slab	865+16.04	-6.00	432.15
J	865+26.04	-6.00	432.15
K	865+36.04	-6.00	432.15
E. End of E. Appr. Slab	865+46.04	-6.00	432.15

PG (WB)

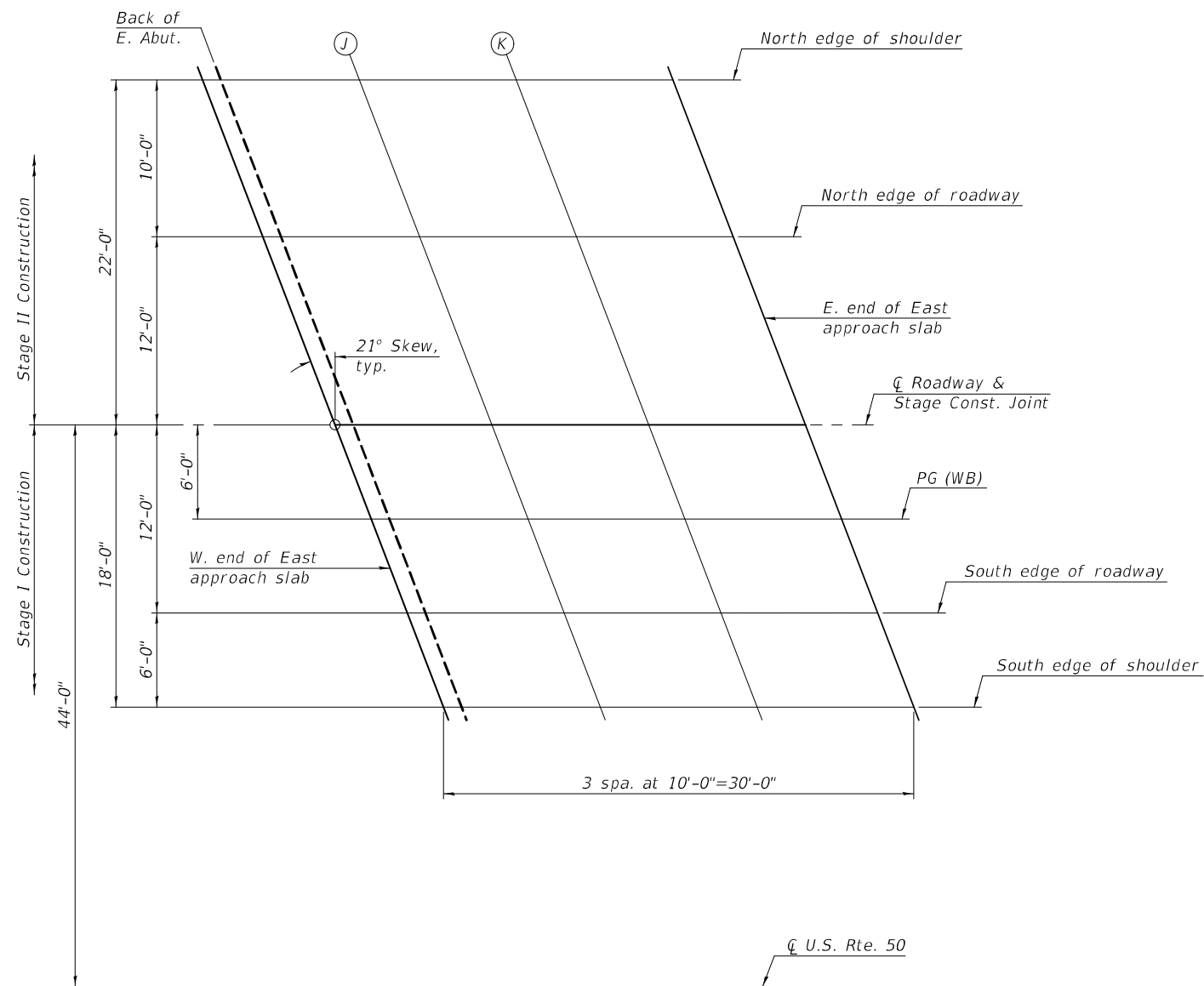
Location	Station	Offset	Theoretical Grade Elevations
W. End of E. Appr. Slab	865+18.34	0.00	432.24
J	865+28.34	0.00	432.24
K	865+38.34	0.00	432.24
E. End of E. Appr. Slab	865+48.34	0.00	432.24

SOUTH EDGE OF ROADWAY

Location	Station	Offset	Theoretical Grade Elevations
W. End of E. Appr. Slab	865+20.65	6.00	432.15
J	865+30.65	6.00	432.15
K	865+40.65	6.00	432.15
E. End of E. Appr. Slab	865+50.65	6.00	432.15

SOUTH EDGE OF SHOULDER

Location	Station	Offset	Theoretical Grade Elevations
W. End of E. Appr. Slab	865+22.95	12.00	432.03
J	865+32.95	12.00	432.03
K	865+42.95	12.00	432.03
E. End of E. Appr. Slab	865+52.95	12.00	432.03



PLAN

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DESIGNED -	TIFFANY L. MEIER
CHECKED -	RYAN P. NEGANGARD
DRAWN -	ANDRO R. SAMANIEGO
CHECKED -	T.L.M. / R.P.N.

EXAMINED	<i>Mark Shuff</i> ENGINEER OF BRIDGE DESIGN
PASSED	<i>Jayne F. [Signature]</i> ENGINEER OF BRIDGES AND STRUCTURES

DATE -	DECEMBER 5, 2023
REVISED -	
REVISED -	

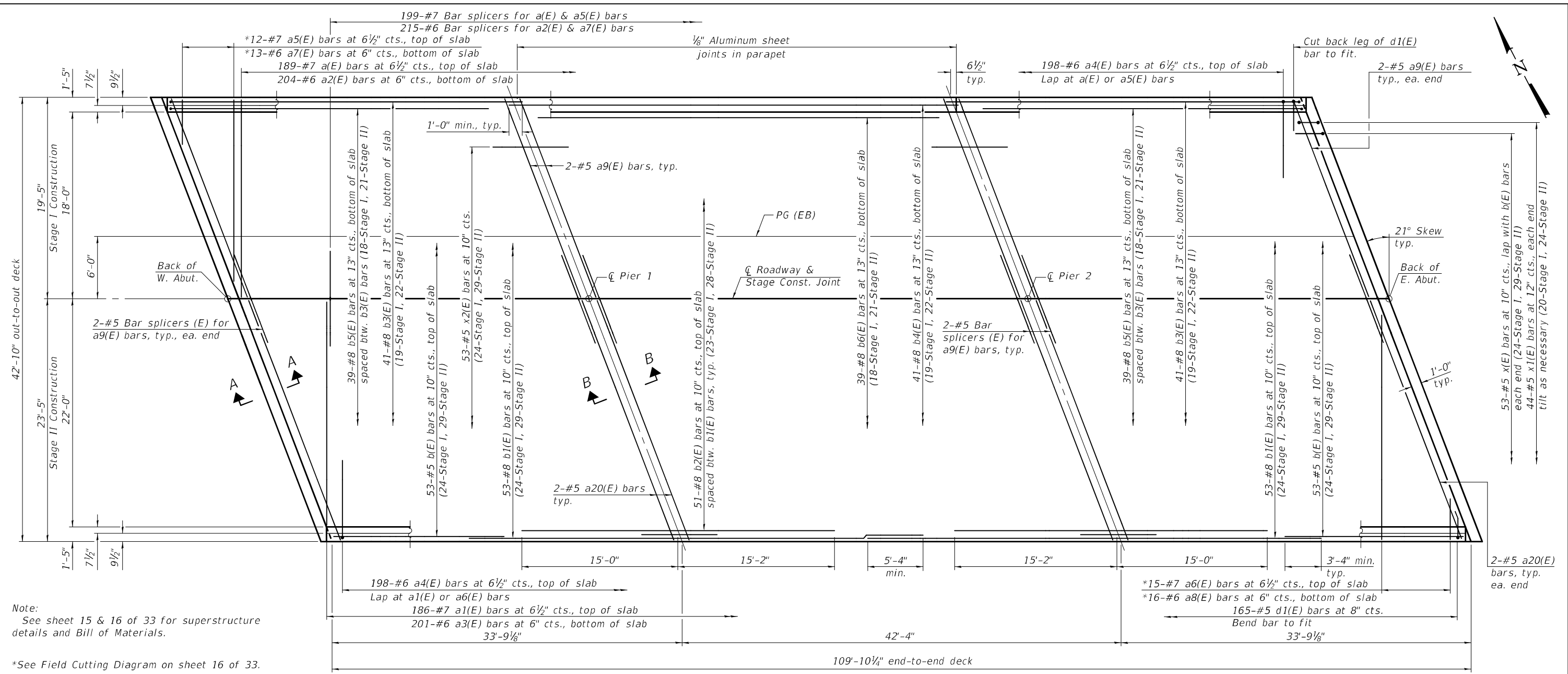
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TOP OF EAST APPROACH SLAB ELEVATIONS
STRUCTURE NO. 051-0023 (WB)**

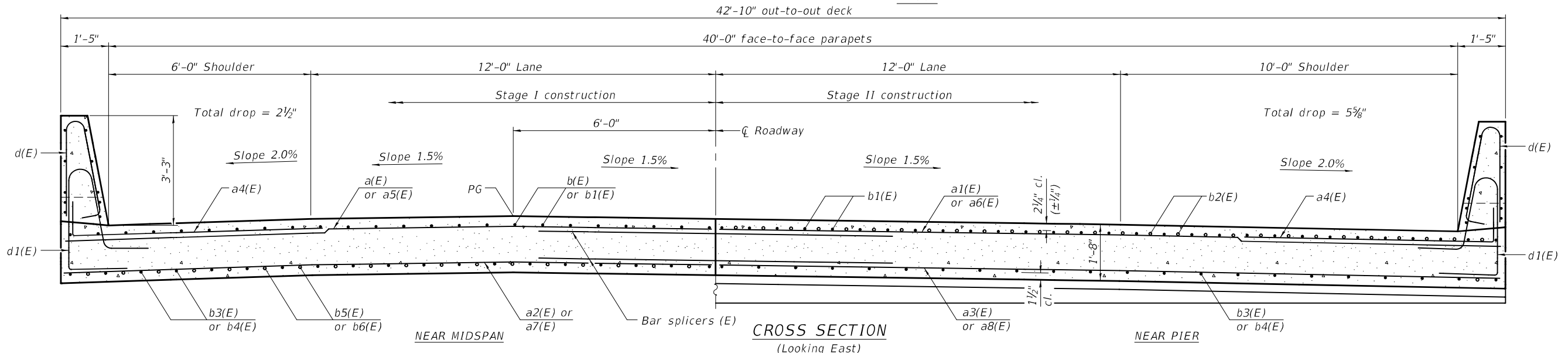
SHEET 12 OF 33 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
327	(51-24HB-1)BR	LAWRENCE	87	41
CONTRACT NO. 74A09				
ILLINOIS FED. AID PROJECT				

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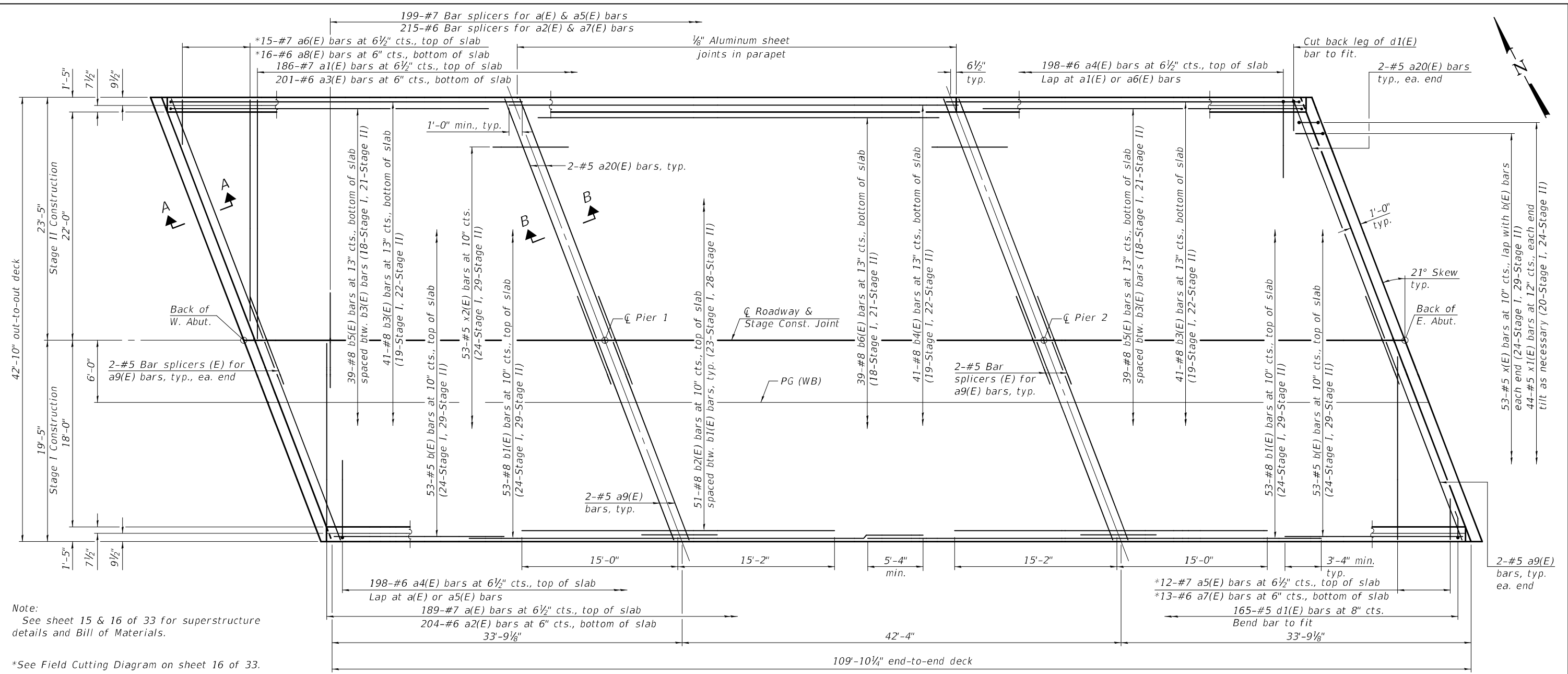


Note:
 See sheet 15 & 16 of 33 for superstructure details and Bill of Materials.
 *See Field Cutting Diagram on sheet 16 of 33.

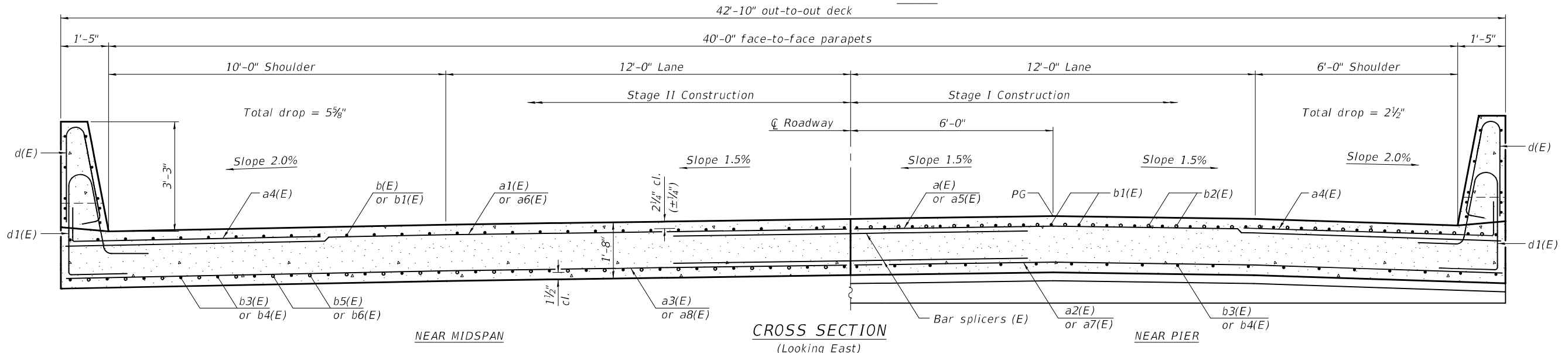


DESIGNED - TIFFANY L. MEIER	EXAMINED - <i>Mark Shuffler</i> ENGINEER OF BRIDGE DESIGN	DATE - DECEMBER 5, 2023	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUPERSTRUCTURE STRUCTURE NO. 051-0022 (EB)		F.A.P. RTE. 327	SECTION (51-24HB-1)BR	COUNTY LAWRENCE	TOTAL SHEETS 87	SHEET NO. 42
CHECKED - RYAN P. NEGANGARD	PASSED - <i>Joanne F. ...</i> ENGINEER OF BRIDGES AND STRUCTURES	REVISED -		SHEET 13 OF 33 SHEETS		ILLINOIS FED. AID PROJECT		CONTRACT NO. 74A09		
DRAWN - ANDRO R. SAMANIEGO		REVISED -								
CHECKED - T.L.M. / R.P.N.										

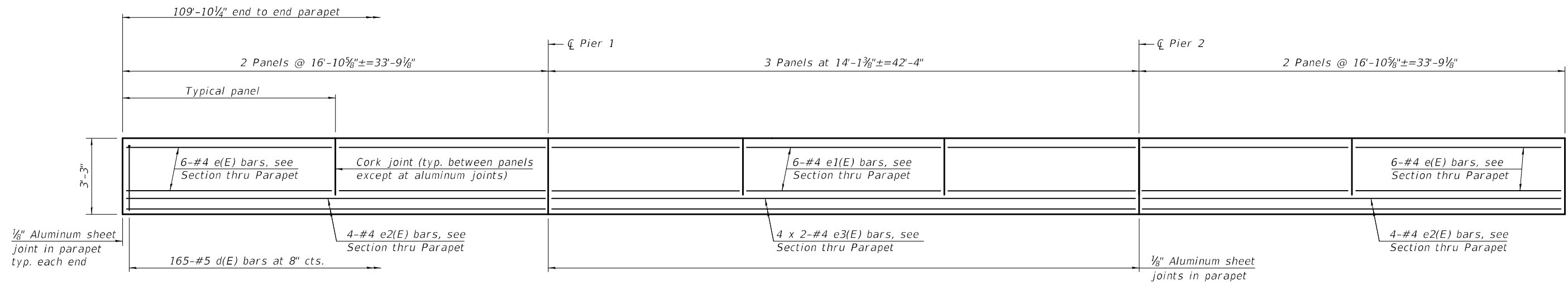
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Note:
 See sheet 15 & 16 of 33 for superstructure details and Bill of Materials.
 *See Field Cutting Diagram on sheet 16 of 33.

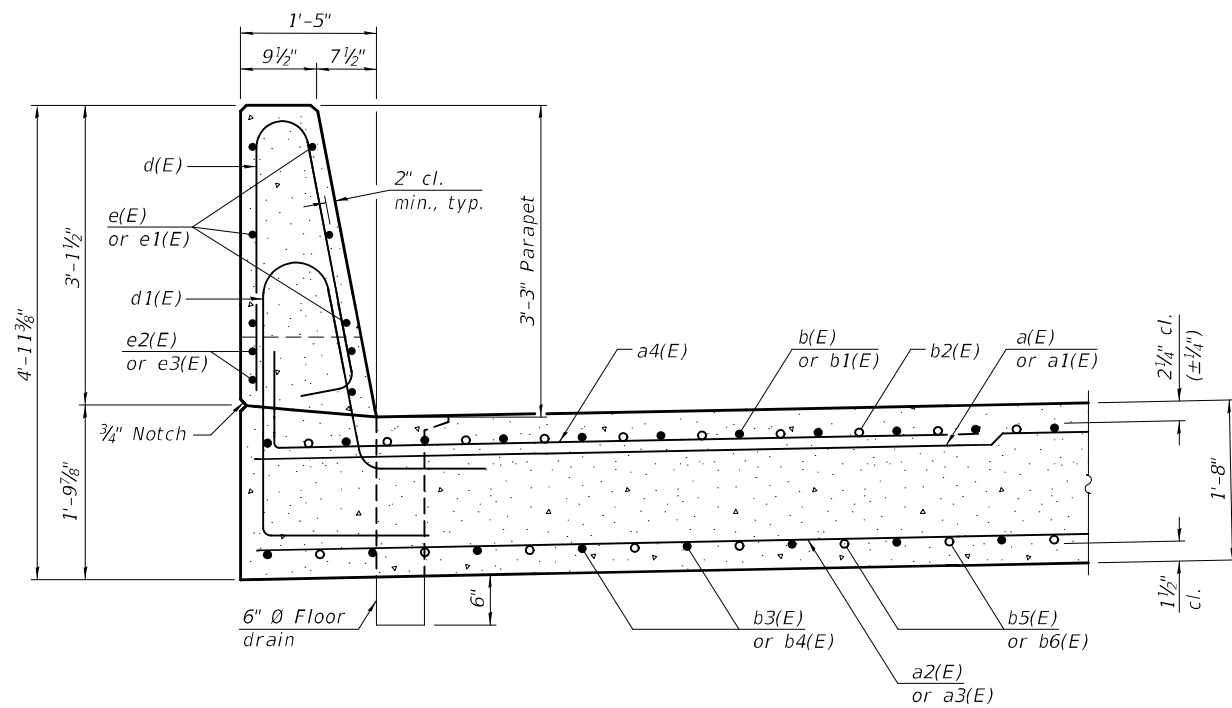


DESIGNED - TIFFANY L. MEIER	EXAMINED - <i>Mark Shuffler</i> ENGINEER OF BRIDGE DESIGN	DATE - DECEMBER 5, 2023	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUPERSTRUCTURE STRUCTURE NO. 051-0023 (WB)		F.A.P. RTE. 327	SECTION (51-24HB-1)BR	COUNTY LAWRENCE	TOTAL SHEETS 87	SHEET NO. 43	
CHECKED - RYAN P. NEGANGARD	PASSED - <i>James F. ...</i> ENGINEER OF BRIDGES AND STRUCTURES	REVISED -		SHEET 14 OF 33 SHEETS		CONTRACT NO. 74A09		ILLINOIS FED. AID PROJECT			
DRAWN - ANDRO R. SAMANIEGO		REVISED -									
CHECKED - T.L.M. / R.P.N.											



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

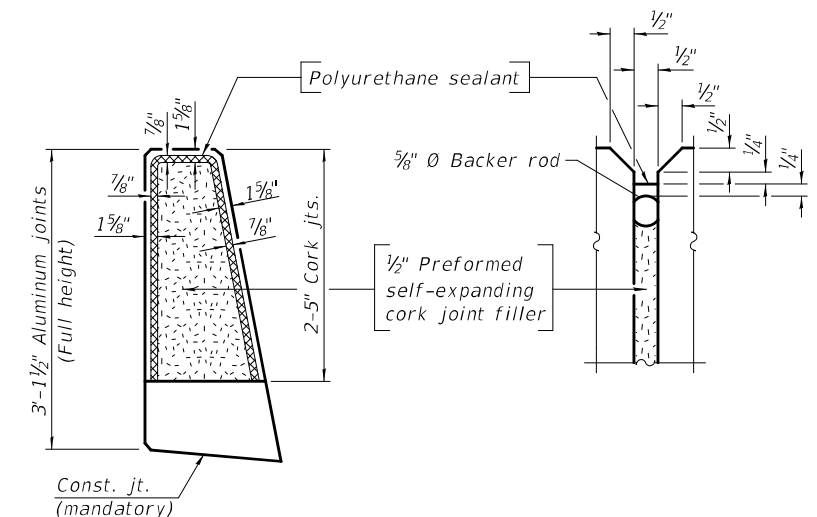
INSIDE ELEVATION OF PARAPET



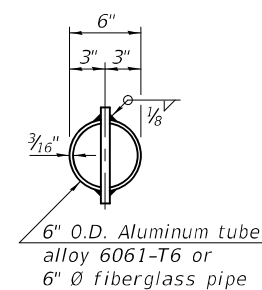
SECTION THRU PARAPET

Notes:

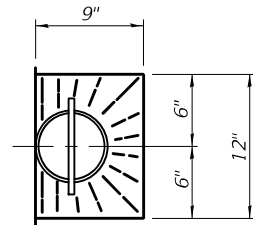
The 1/8" aluminum sheet shall be ASTM B 209 alloy 3003-H14 and coated to minimize reaction with wet concrete. Cost included with Concrete Superstructure Bars indicated thus 4 x 2-#4 etc. indicates 4 lines of bars with 2 lengths per line. Fiberglass pipe shall conform to ASTM D2996, with short-time rupture hoop tensile stress of 30,000 p.s.i. minimum. The exterior surfaces of the fiberglass floor drains shall be pigmented by the manufacturer with a color that matches the concrete. The top portion of aluminum floor drains shall be coated to minimize reaction with wet concrete. The polyurethane sealant shall be according to Article 1050.04 of the Std. Spec. and the color shall be gray.



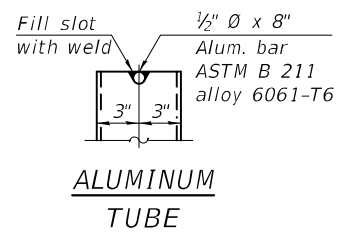
PARAPET JOINT DETAILS



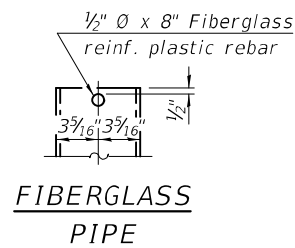
TOP PLAN
(Showing aluminum tube)



TOP PLAN



ALUMINUM TUBE



FIBERGLASS PIPE

MODEL: 000000-00000-015
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DESIGNED -	TIFFANY L. MEIER
CHECKED -	RYAN P. NEGANGARD
DRAWN -	ANDRO R. SAMANIEGO
CHECKED -	T.L.M. / R.P.N.

EXAMINED	<i>Mark Shuffler</i> ENGINEER OF BRIDGE DESIGN
PASSED	<i>Jayne F. ...</i> ENGINEER OF BRIDGES AND STRUCTURES

DATE -	DECEMBER 5, 2023
REVISED -	
REVISED -	

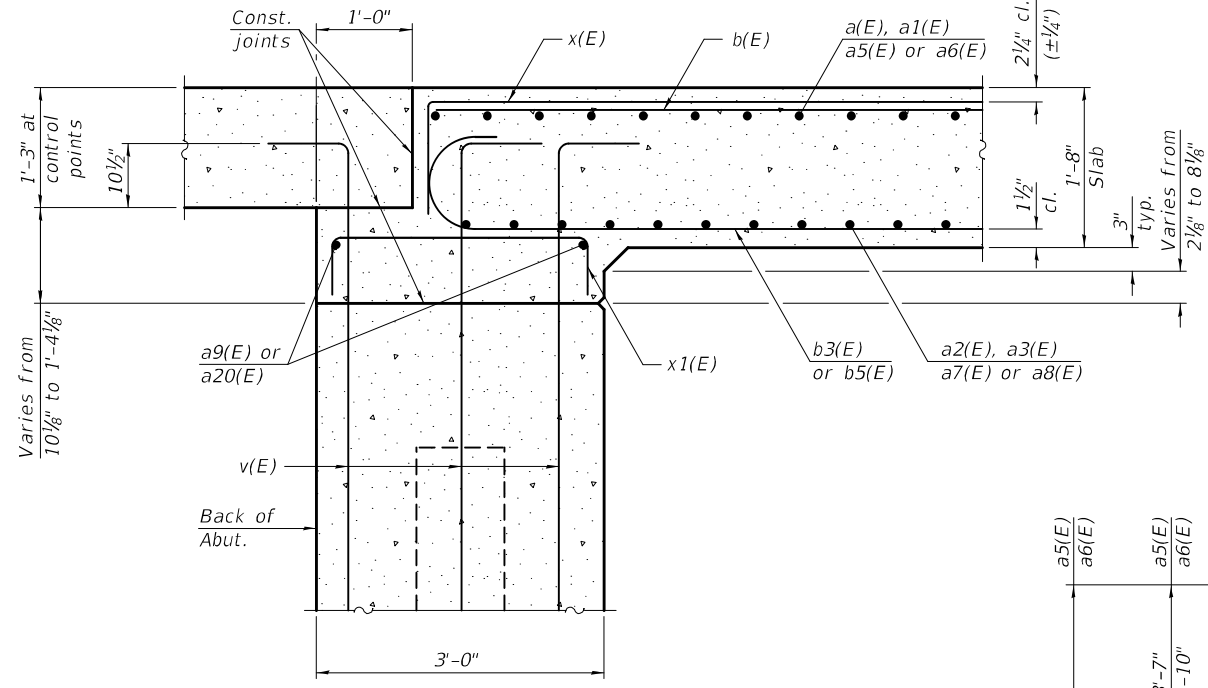
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**SUPERSTRUCTURE DETAILS
STRUCTURE NO. 051-0022 (EB) & 051-0023 (WB)**

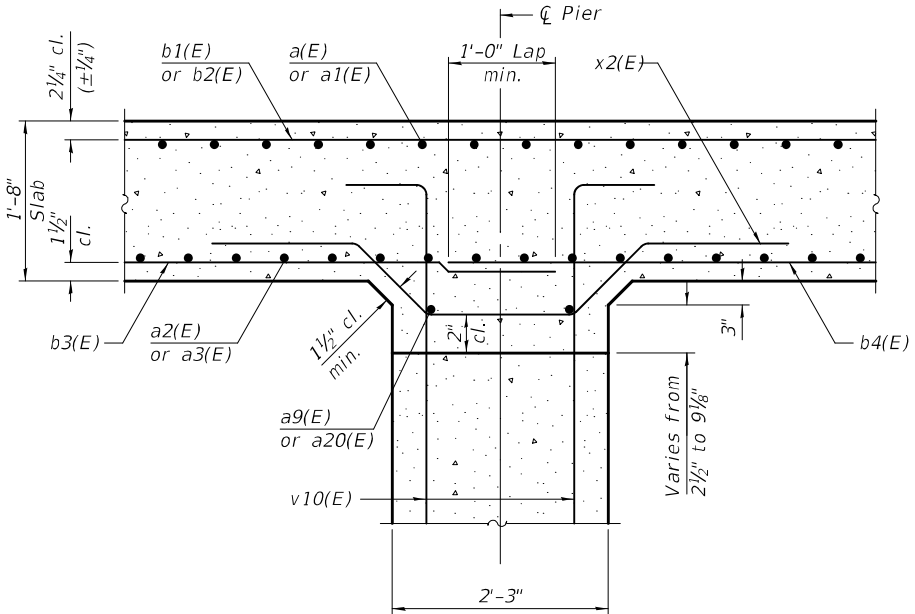
SHEET 15 OF 33 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
327	(51-24HB-1)BR	LAWRENCE	87	44
			CONTRACT NO. 74A09	
ILLINOIS FED. AID PROJECT				

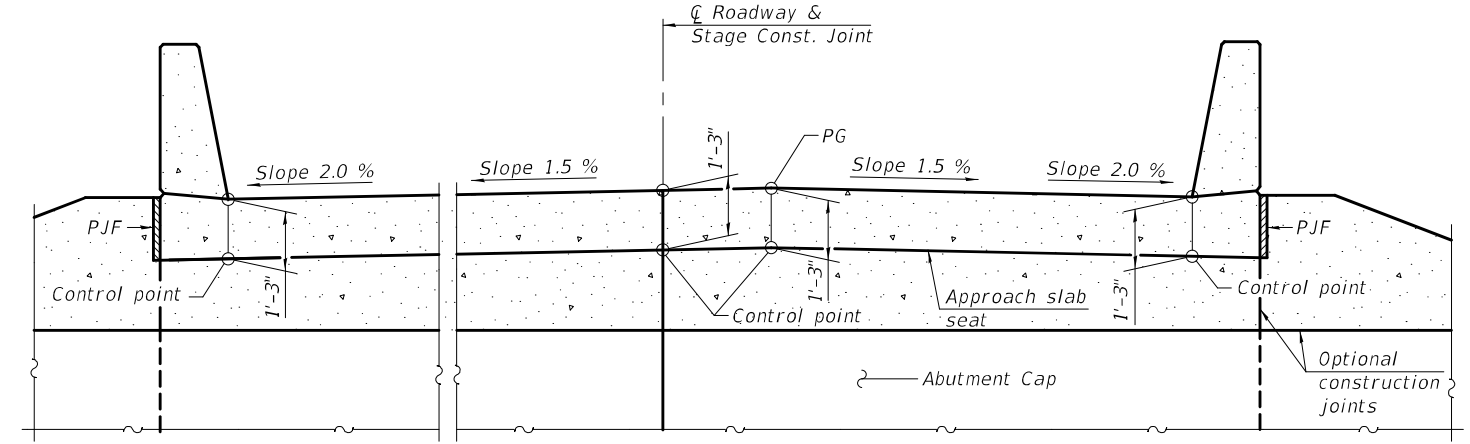
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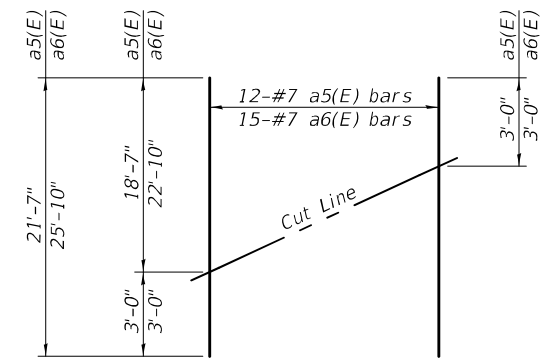
SECTION A-A



SECTION B-B

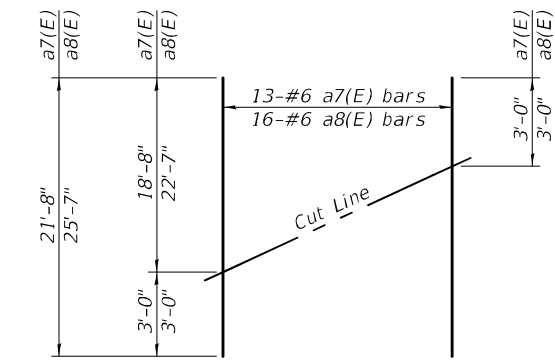


APPROACH SLAB SEAT



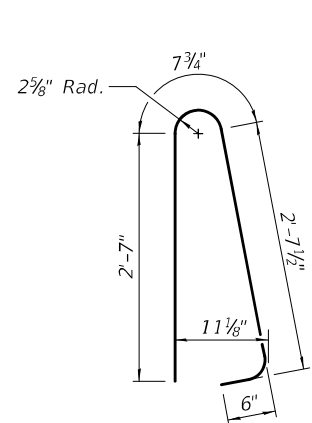
FIELD CUTTING DIAGRAM

Order a5(E) & a6(E) full length. Cut as shown and use remainder of bars in opposite end of deck.

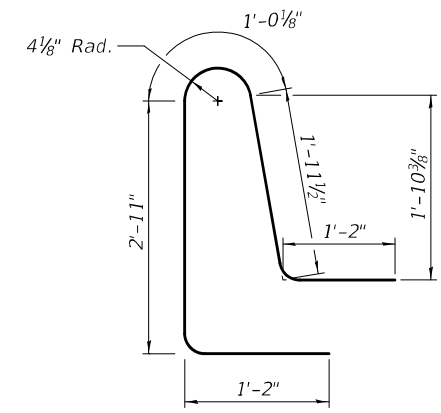


FIELD CUTTING DIAGRAM

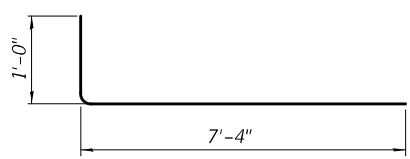
Order a7(E) & a8(E) full length. Cut as shown and use remainder of bars in opposite end of deck.



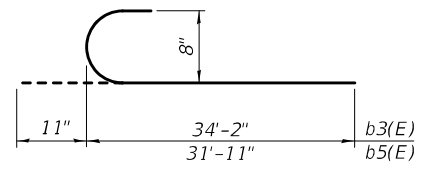
BAR d(E)



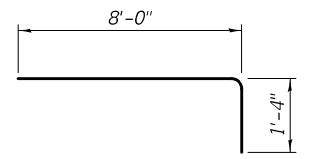
BAR d1(E)



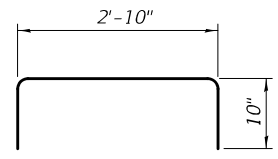
BAR a4(E)



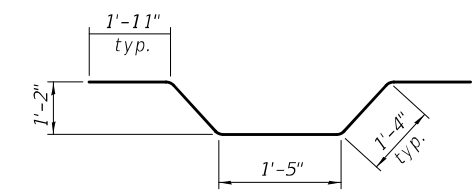
BAR b3(E) & b5(E)



BAR x(E)



BAR x1(E)



BAR x2(E)

**TWO SUPERSTRUCTURES
BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
a(E)	378	#7	19'-1"	—
a1(E)	372	#7	23'-1"	—
a2(E)	408	#6	19'-1"	—
a3(E)	402	#6	23'-1"	—
a4(E)	792	#6	8'-4"	└
a5(E)	24	#7	21'-7"	—
a6(E)	30	#7	25'-10"	—
a7(E)	26	#6	21'-8"	—
a8(E)	32	#6	25'-7"	—
a9(E)	16	#5	20'-6"	—
a20(E)	16	#5	24'-9"	—
b(E)	212	#5	17'-1"	—
b1(E)	212	#8	43'-9"	—
b2(E)	204	#8	30'-2"	—
b3(E)	164	#8	35'-1"	└
b4(E)	82	#8	43'-4"	—
b5(E)	156	#8	32'-10"	└
b6(E)	78	#8	38'-8"	—
d(E)	660	#5	6'-5"	└
d1(E)	660	#5	8'-3"	└
e(E)	96	#4	16'-7"	—
e1(E)	72	#4	13'-10"	—
e2(E)	32	#4	33'-6"	—
e3(E)	32	#4	22'-3"	—
x(E)	212	#5	9'-4"	└
x1(E)	176	#5	4'-6"	└
x2(E)	212	#5	7'-11"	└
Reinforcement Bars, Epoxy Coated			Pound	182,520
Concrete Superstructure			Cu. Yd.	668.7

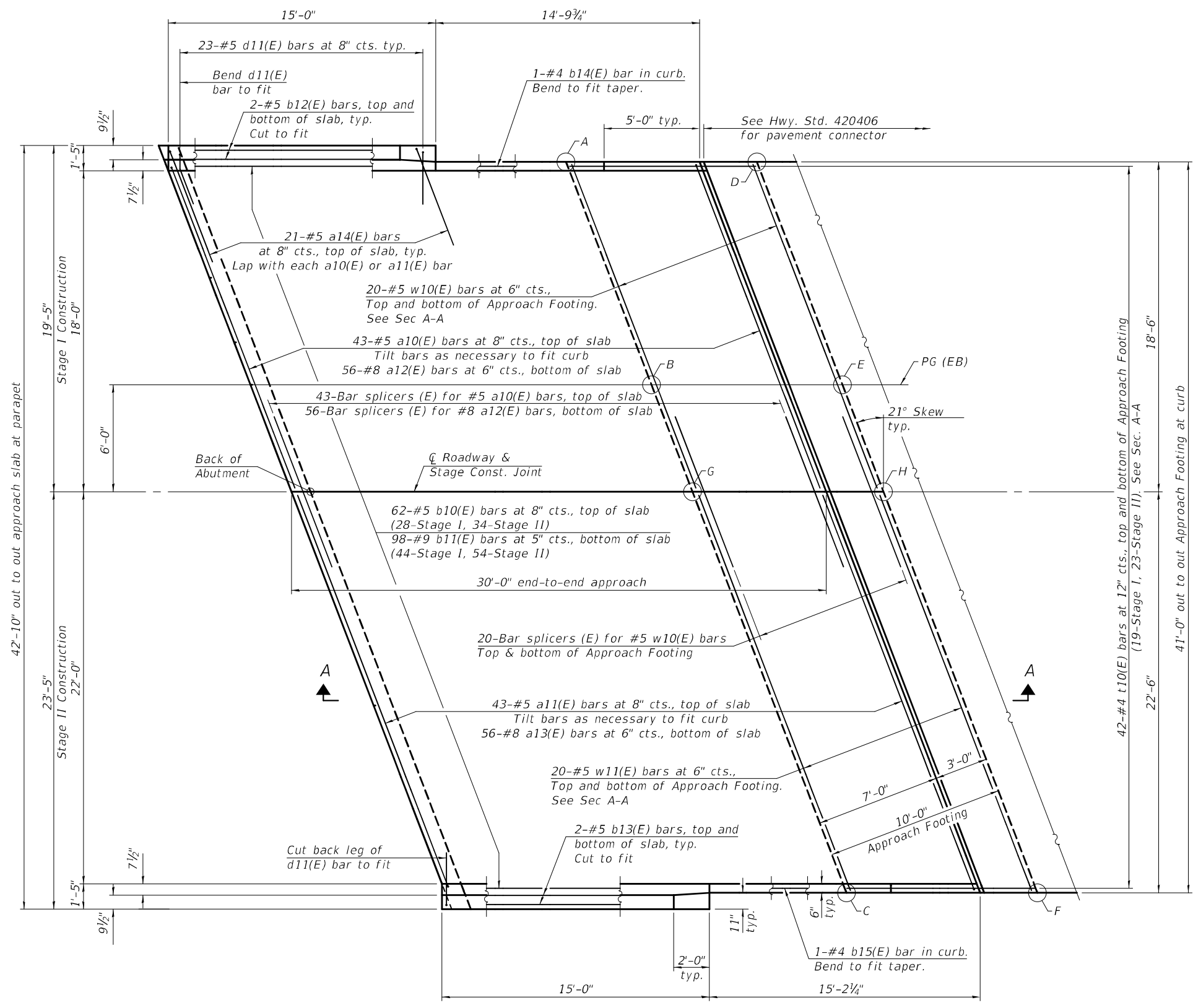
DESIGNED - TIFFANY L. MEIER	EXAMINED - <i>Mark Shuffler</i>	DATE - DECEMBER 5, 2023
CHECKED - RYAN P. NEGANGARD	ENGINEER OF BRIDGE DESIGN	
DRAWN - ANDRO R. SAMANIEGO	PASSED - <i>Jayne F. Hoff</i>	REVISER -
CHECKED - T.L.M. / R.P.N.	ENGINEER OF BRIDGES AND STRUCTURES	REVISER -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**SUPERSTRUCTURE DETAILS
STRUCTURE NO. 051-0022 (EB) & 051-0023 (WB)**

SHEET 16 OF 33 SHEETS

F.A.P. RTE. 327	SECTION (51-24HB-1)BR	COUNTY LAWRENCE	TOTAL SHEETS 87	SHEET NO. 45
ILLINOIS FED. AID PROJECT			CONTRACT NO. 74A09	



PLAN
(East approach shown; West approach similar)

**TOP AND BOTTOM ELEVATIONS
FOR APPROACH FOOTING**

West Approach			East Approach		
Point/Location	Top	Bottom	Point/Location	Top	Bottom
A - SE	430.53	429.70	A - NW	430.77	429.94
B - E PG	431.01	430.18	B - W PG	430.98	430.15
C - NE	430.79	429.96	C - SW	430.50	429.67
D - SW	430.53	429.70	D - NE	430.76	429.93
E - W PG	431.01	430.18	E - E PG	430.98	430.15
F - NW	430.79	429.96	F - SE	430.50	429.67
G - E SCJ	430.92	430.09	G - W SCJ	430.89	430.06
H - W SCJ	430.92	430.09	H - E SCJ	430.89	430.06

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DESIGNED -	TIFFANY L. MEIER
CHECKED -	RYAN P. NEGANGARD
DRAWN -	ANDRO R. SAMANIEGO
CHECKED -	T.L.M./R.P.N.

EXAMINED	<i>Mark Shuffler</i> ENGINEER OF BRIDGE DESIGN
PASSED	<i>Jaime F. [Signature]</i> ENGINEER OF BRIDGES AND STRUCTURES

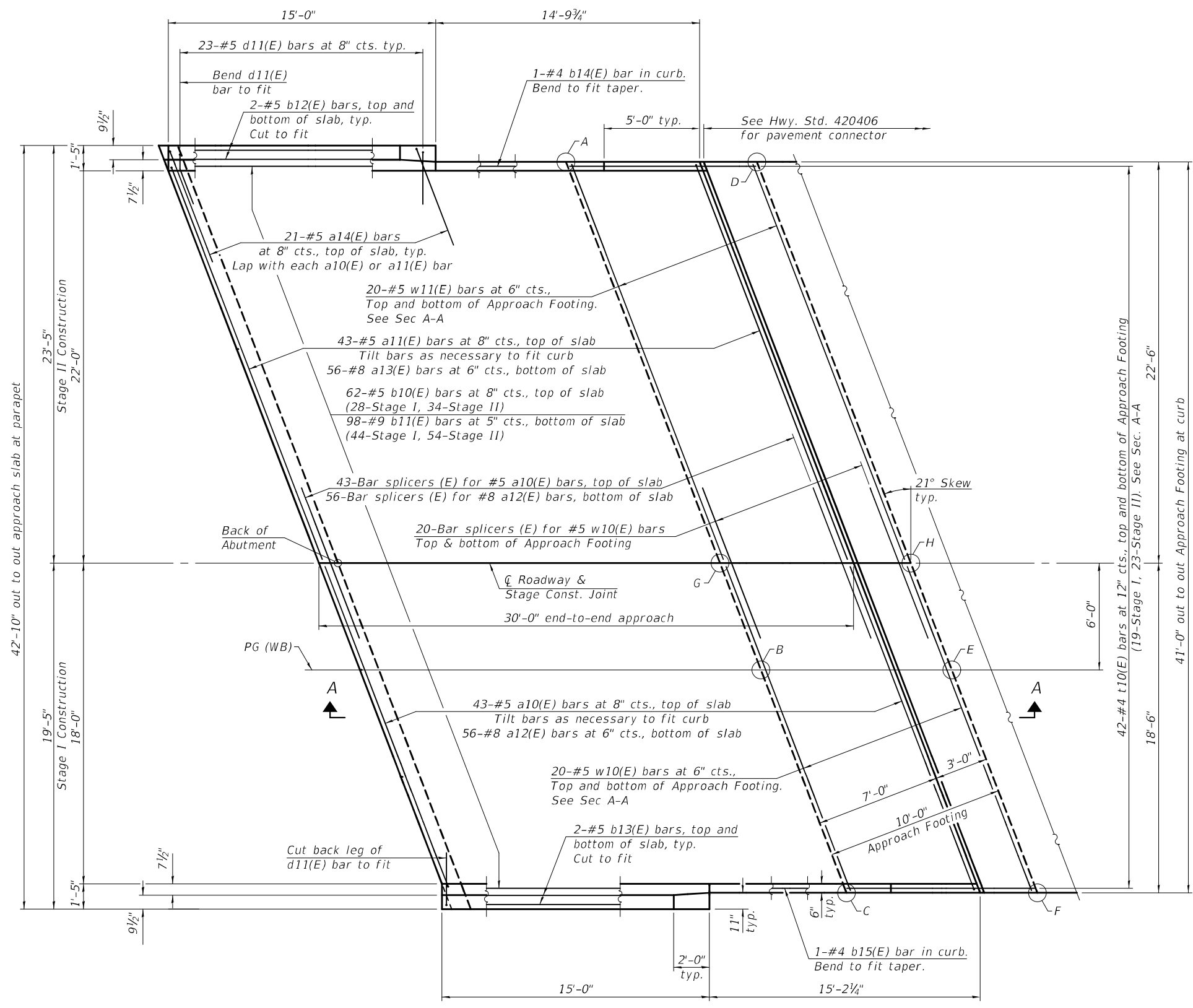
DATE -	DECEMBER 5, 2023
REVISED -	
REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BRIDGE APPROACH SLAB
 STRUCTURE NO. 051-0022 (EB)

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
327	(51-24HB-1)BR	LAWRENCE	87	46
CONTRACT NO. 74A09				
ILLINOIS FED. AID PROJECT				

(Sheet 1 of 3)




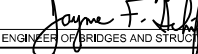
PLAN
(East approach shown; West approach similar)

**TOP AND BOTTOM ELEVATIONS
FOR APPROACH FOOTING**

West Approach			East Approach		
Point/Location	Top	Bottom	Point/Location	Top	Bottom
A - SE	430.79	429.96	A - NW	430.51	429.68
B - E PG	431.01	430.18	B - W PG	430.99	430.16
C - NE	430.54	429.71	C - SW	430.77	429.94
D - SW	430.80	429.97	D - NE	430.51	429.68
E - W PG	431.02	430.19	E - E PG	430.99	430.16
F - NW	430.54	429.71	F - SE	430.77	429.94
G - E SCJ	430.92	430.09	G - W SCJ	430.90	430.07
H - W SCJ	430.93	430.10	H - E SCJ	430.90	430.07

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DESIGNED - TIFFANY L. MEIER
 CHECKED - RYAN P. NEGANGARD
 DRAWN - ANDRO R. SAMANIEGO
 CHECKED - T.L.M. / R.P.N.

EXAMINED
 PASSED

 ENGINEER OF BRIDGE DESIGN

 ENGINEER OF BRIDGES AND STRUCTURES

DATE - DECEMBER 5, 2023
 REVISED -
 REVISED -

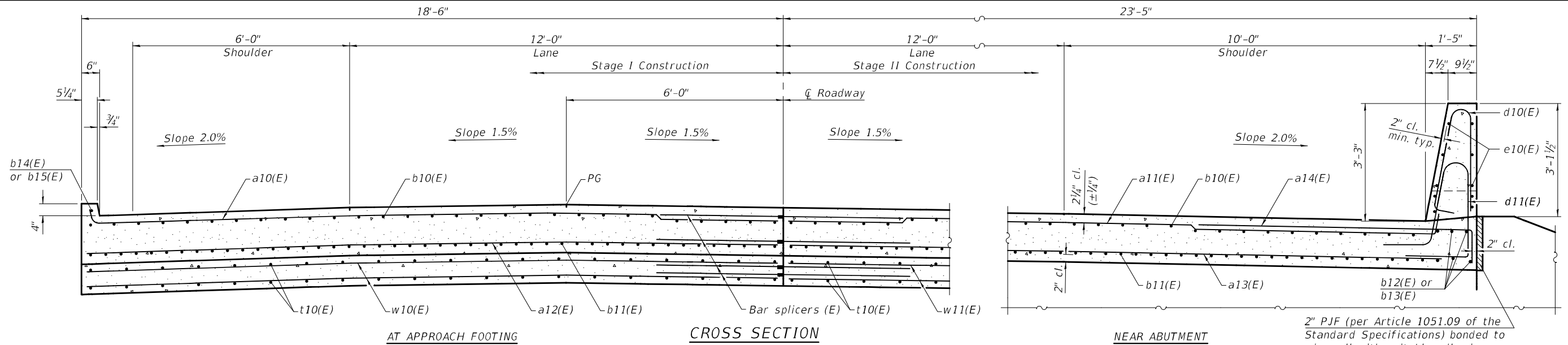
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BRIDGE APPROACH SLAB
STRUCTURE NO. 051-0023 (WB)

(Sheet 2 of 3)

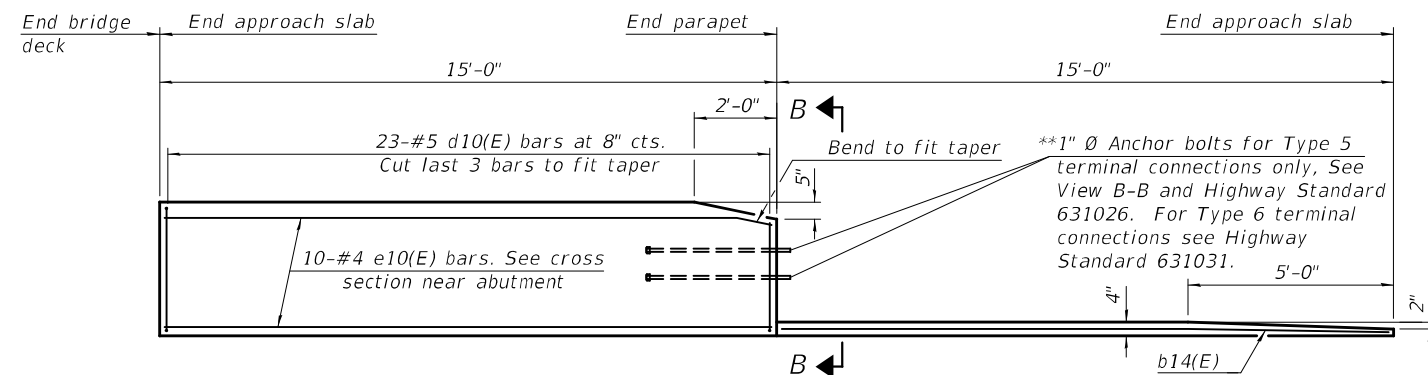
SHEET 18 OF 33 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
327	(51-24HB-1)BR	LAWRENCE	87	47
ILLINOIS FED. AID PROJECT			CONTRACT NO. 74A09	

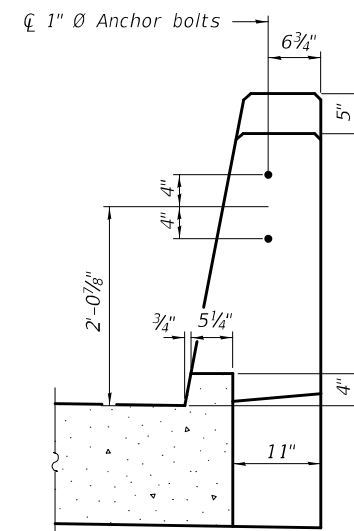


CROSS SECTION
(EB-Looking East)
(WB-Looking West)

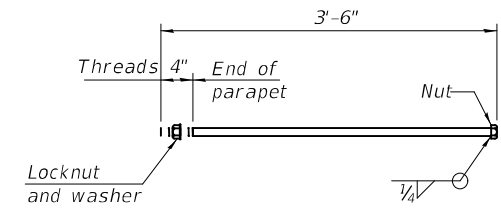
* Cost included with Concrete Superstructure (Approach Slab).
** Terminal connections shall be Type 6 at approach ends and Type 5 at exterior departure ends. No railing or connection is used on the median departure ends.



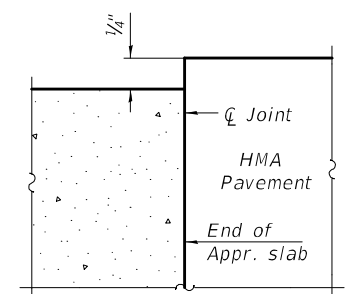
INSIDE ELEVATION OF PARAPET AND CURB



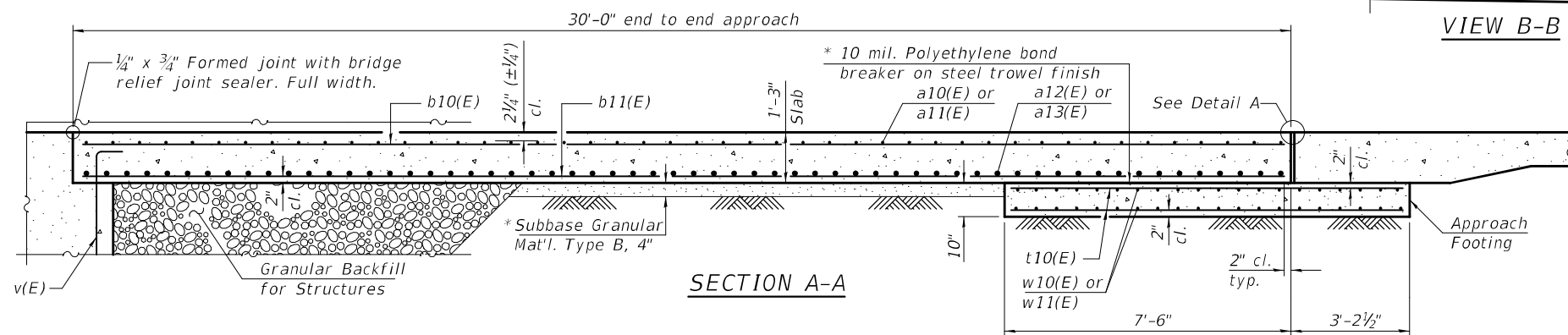
VIEW B-B



*** 1" ANCHOR BOLT**
(Anchor bolt assemblies shall be galvanized according to Article 1006.09 of the Standard Specifications)

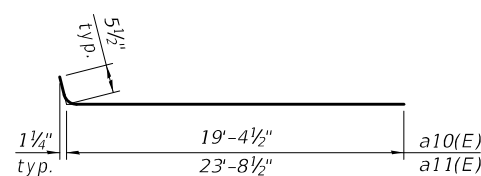


**FLEXIBLE PAVEMENT
DETAIL A**

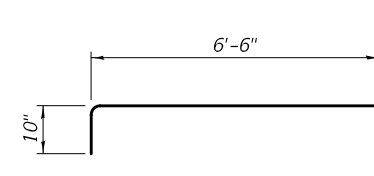


SECTION A-A

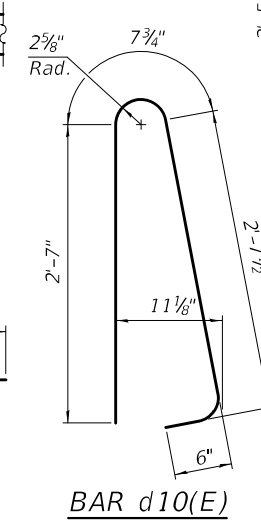
Notes:
The joint opening shall be adjusted for temperature per Article 520.04 of the Standard Specifications. However, since this detail is for jointless structures, the length of bridge used to calculate the adjustment shall be equal to half the total bridge length plus the length of the bridge approach slab.
Parapet concrete shall be paid for as Concrete Superstructure.
Approach slab shall be paid for as Concrete Superstructure (Approach Slab).
Approach footing concrete shall be paid for as Concrete Structures.
The approach footing maximum applied service bearing pressure (Qmax) = 2.0 ksf.
Cost of excavation for approach footing included with Concrete Structures.
For Granular Backfill for Structures and drainage treatment details, see sheet 2 of 33.



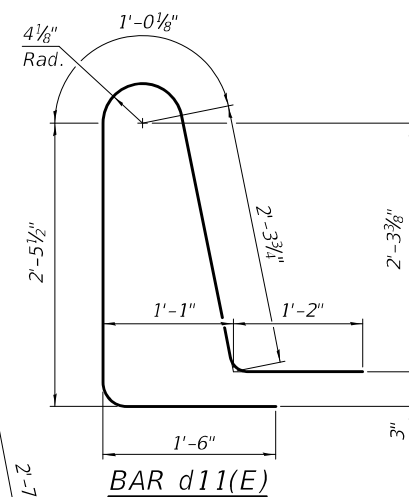
BAR a10(E) & a11(E)



BAR a14(E)



BAR d10(E)



BAR d11(E)

**FOUR APPROACHES
BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
a10(E)	172	#5	19'-10"	—
a11(E)	172	#5	24'-2"	—
a12(E)	224	#8	19'-6"	—
a13(E)	224	#8	23'-9"	—
a14(E)	168	#5	7'-4"	—
b10(E)	248	#5	29'-8"	—
b11(E)	392	#9	29'-8"	—
b12(E)	16	#5	15'-2"	—
b13(E)	16	#5	14'-5"	—
b14(E)	4	#4	14'-7"	—
b15(E)	4	#4	14'-9"	—
d10(E)	184	#5	6'-5"	—
d11(E)	184	#5	8'-6"	—
e10(E)	80	#4	14'-8"	—
t10(E)	336	#4	10'-5"	—
w10(E)	160	#5	19'-6"	—
w11(E)	160	#5	23'-9"	—
Concrete Superstructure		Cu. Yd.	15.5	
Concrete Superstructure (Approach Slab)		Cu. Yd.	233.6	
Concrete Structures		Cu. Yd.	54.2	
Reinforcement Bars, Epoxy Coated		Pound	96,030	

(Sheet 3 of 3)

MODEL: 000000-00000-019
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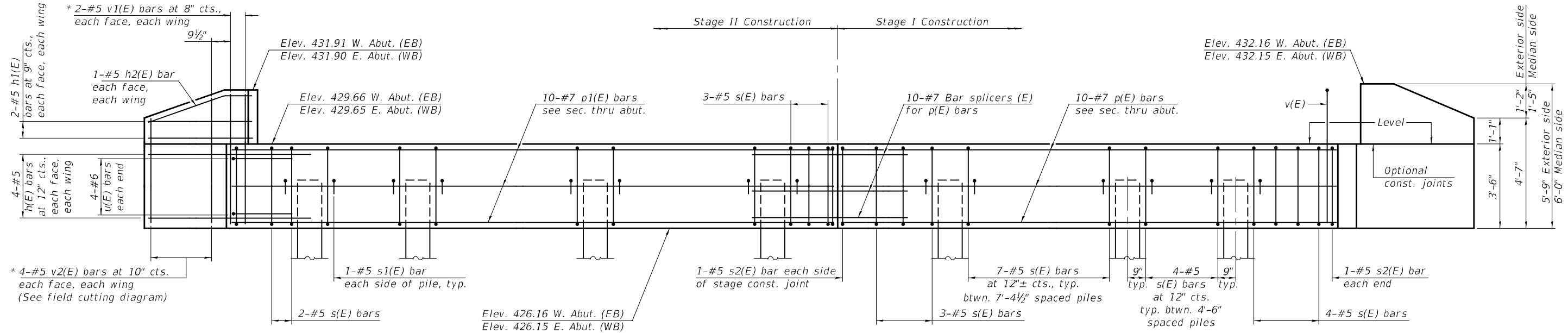
DESIGNED - TIFFANY L. MEIER	EXAMINED - <i>Mark Shuffler</i> ENGINEER OF BRIDGE DESIGN	DATE - DECEMBER 5, 2023
CHECKED - RYAN P. NEGANGARD	PASSED - <i>Jayne F. Hoff</i> ENGINEER OF BRIDGES AND STRUCTURES	REVISED -
DRAWN - ANDRO R. SAMANIEGO		REVISED -
CHECKED - T.L.M. / R.P.N.		

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

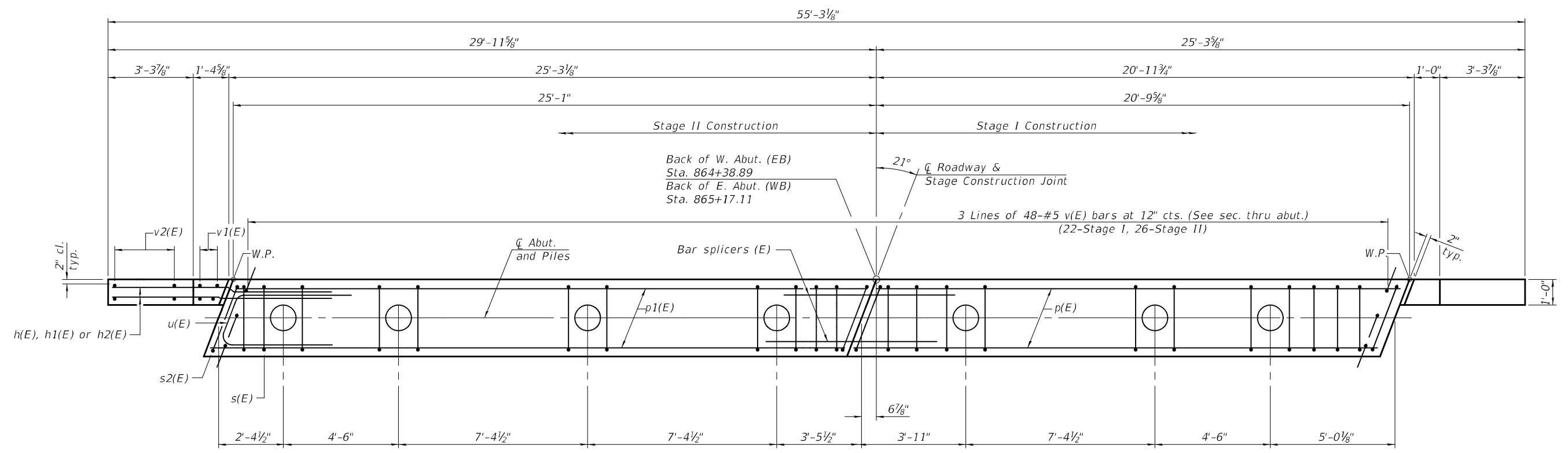
**BRIDGE APPROACH SLAB DETAILS
STRUCTURE NO. 051-0022 (EB) & 051-0023 (WB)**

SHEET 19 OF 33 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
327	(51-24HB-1)BR	LAWRENCE	87	48
			CONTRACT NO. 74A09	
		ILLINOIS FED. AID PROJECT		



* After any field cutting, bars should be cut to fit as needed.



Note: See sheet 22 of 33 for additional details, notes and Bill of Materials.



MODEL: 000000-00000-020
FILE NAME: pw:\wider-pw-bentley.com\FWIDOT\Documents\DOT Offices\Bureau of Bridges and Structures\Projects\0510022\CADD Plans\0510022-74A09.dgn

DESIGNED -	TIFFANY L. MEIER
CHECKED -	RYAN P. NEGANGARD
DRAWN -	ANDRO R. SAMANIEGO
CHECKED -	T.L.M. / R.P.N.

EXAMINED	<i>Mark Shuffler</i> ENGINEER OF BRIDGE DESIGN
PASSED	<i>James F. [Signature]</i> ENGINEER OF BRIDGES AND STRUCTURES

DATE -	DECEMBER 5, 2023
REVISED -	
REVISED -	

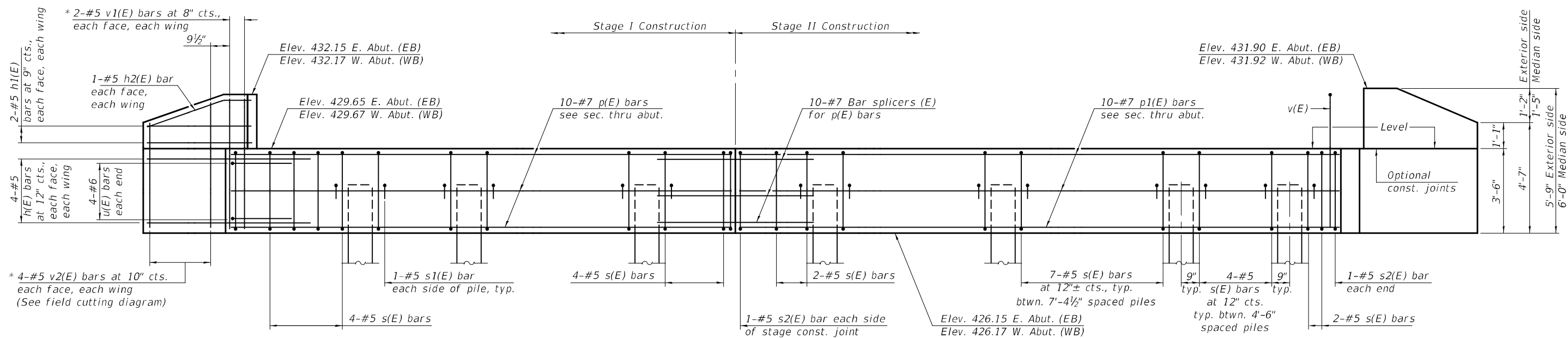
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**WEST (EB) & EAST (WB) ABUTMENTS
STRUCTURE NO. 051-0022 (EB) & 051-0023 (WB)**

SHEET 20 OF 33 SHEETS

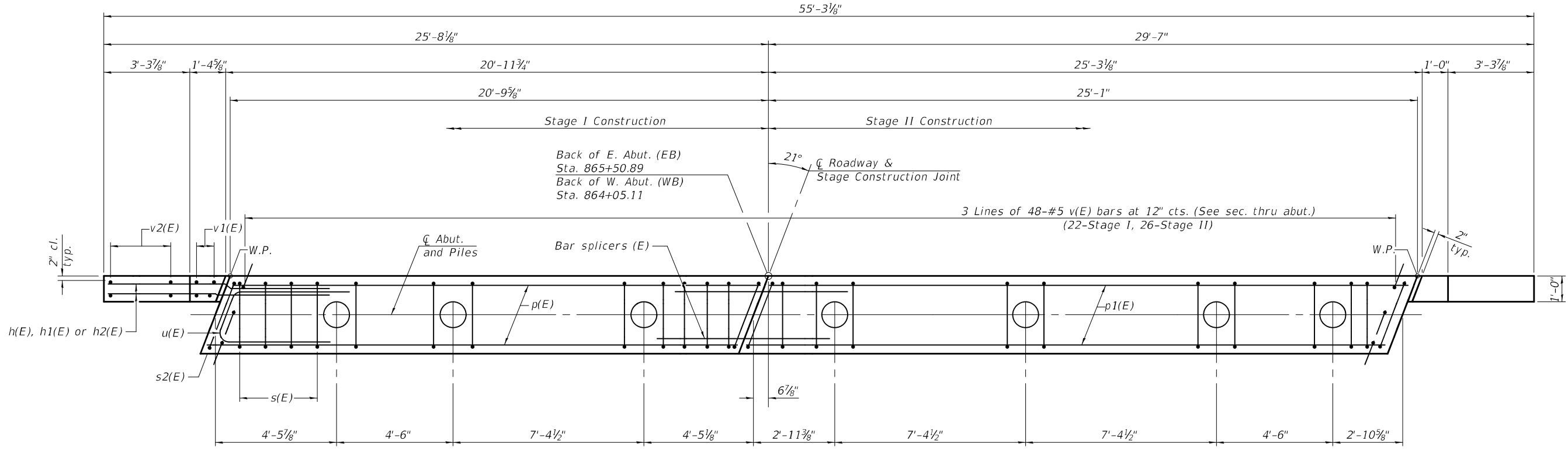
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
327	(51-24HB-1)BR	LAWRENCE	87	49
CONTRACT NO. 74A09				
ILLINOIS FED. AID PROJECT				

12/6/2023 10:35:44 AM



ELEVATION

* After any field cutting, bars should be cut to fit as needed.



PLAN

Note: See sheet 22 of 33 for additional details, notes and Bill of Materials.



MODEL: 000000-00000-021
FILE NAME: p:\w\l\p\w\benley.com\FWIDOT\Documents\DOT Offices\Bureau of Bridges and Structures\Projects\0510022\CADD Plans\0510022-74A09.dgn

DESIGNED -	TIFFANY L. MEIER
CHECKED -	RYAN P. NEGANGARD
DRAWN -	ANDRO R. SAMANIEGO
CHECKED -	T.L.M. / R.P.N.

EXAMINED	<i>Mark Shuffler</i> ENGINEER OF BRIDGE DESIGN
PASSED	<i>Jaime F. [Signature]</i> ENGINEER OF BRIDGES AND STRUCTURES

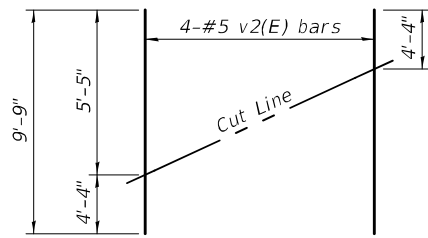
DATE -	DECEMBER 5, 2023
REVISED -	
REVISED -	

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**EAST (EB) & WEST (WB) ABUTMENTS
STRUCTURE NO. 051-0022 (EB) & 051-0023 (WB)**

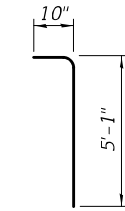
SHEET 21 OF 33 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
327	(51-24HB-1)BR	LAWRENCE	87	50
CONTRACT NO. 74A09				
ILLINOIS		FED. AID PROJECT		

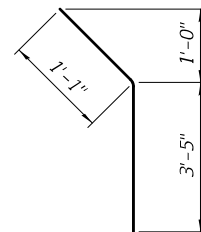


FIELD CUTTING DIAGRAM

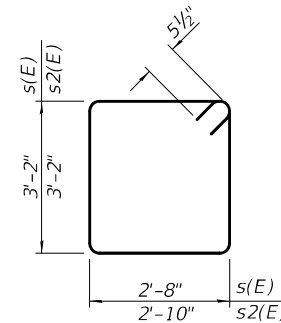
Order v2(E) full length. Cut as shown and use remainder of bars in opposite face.



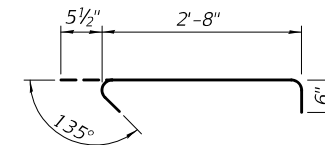
BAR v(E)



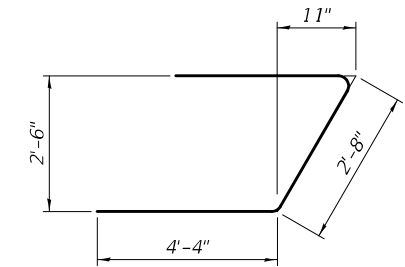
BAR h2(E)



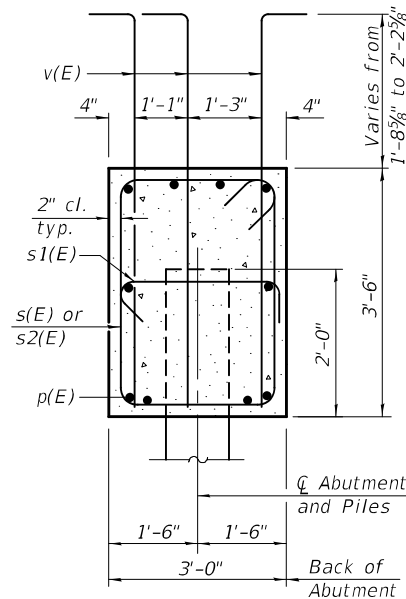
BAR s(E) & s2(E)



BAR s1(E)



BAR u(E)



SEC. THRU ABUT.

Dimensions at right angles to abutment.

**WEST ABUTMENT (EB)
BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
h(E)	16	#5	7'-5"	—
h1(E)	8	#5	3'-7"	—
h2(E)	4	#5	4'-6"	—
p(E)	10	#7	20'-6"	—
p1(E)	10	#7	24'-9"	—
s(E)	41	#5	12'-7"	□
s1(E)	14	#5	3'-8"	└
s2(E)	4	#5	12'-11"	□
u(E)	8	#6	11'-4"	└
v(E)	144	#5	5'-11"	└
v1(E)	8	#5	5'-8"	—
v2(E)	8	#5	9'-9"	—
Structure Excavation		Cu. Yd.	76	
Concrete Structures		Cu. Yd.	19.7	
Reinforcement Bars, Epoxy Coated		Pound	2,900	
Furnishing Metal Shell Piles 12" X 0.250"		Foot	402	
Driving Piles		Foot	402	
Test Pile Metal Shells		Each	1	

PILE DATA

Type: Metal Shell 12"x0.25"
Nominal Required Bearing: 248 kips
Factored Resistance Available: 136 kips
Est. Length: 67'
No. Production Piles: 6
No. Test Piles: 1

**EAST ABUTMENT (EB)
BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
h(E)	16	#5	7'-5"	—
h1(E)	8	#5	3'-7"	—
h2(E)	4	#5	4'-6"	—
p(E)	10	#7	20'-6"	—
p1(E)	10	#7	24'-9"	—
s(E)	41	#5	12'-7"	□
s1(E)	14	#5	3'-8"	└
s2(E)	4	#5	12'-11"	□
u(E)	8	#6	11'-4"	└
v(E)	144	#5	5'-11"	└
v1(E)	8	#5	5'-8"	—
v2(E)	8	#5	9'-9"	—
Structure Excavation		Cu. Yd.	76	
Concrete Structures		Cu. Yd.	19.7	
Reinforcement Bars, Epoxy Coated		Pound	2,900	
Furnishing Metal Shell Piles 12" X 0.250"		Foot	348	
Driving Piles		Foot	348	
Test Pile Metal Shells		Each	1	

PILE DATA

Type: Metal Shell 12"x0.25"
Nominal Required Bearing: 248 kips
Factored Resistance Available: 136 kips
Est. Length: 58'
No. Production Piles: 6
No. Test Piles: 1

**WEST ABUTMENT (WB)
BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
h(E)	16	#5	7'-5"	—
h1(E)	8	#5	3'-7"	—
h2(E)	4	#5	4'-6"	—
p(E)	10	#7	20'-6"	—
p1(E)	10	#7	24'-9"	—
s(E)	41	#5	12'-7"	□
s1(E)	14	#5	3'-8"	└
s2(E)	4	#5	12'-11"	□
u(E)	8	#6	11'-4"	└
v(E)	144	#5	5'-11"	└
v1(E)	8	#5	5'-8"	—
v2(E)	8	#5	9'-9"	—
Structure Excavation		Cu. Yd.	76	
Concrete Structures		Cu. Yd.	19.7	
Reinforcement Bars, Epoxy Coated		Pound	2,900	
Furnishing Metal Shell Piles 12" X 0.250"		Foot	402	
Driving Piles		Foot	402	
Test Pile Metal Shells		Each	1	

PILE DATA

Type: Metal Shell 12"x0.25"
Nominal Required Bearing: 248 kips
Factored Resistance Available: 136 kips
Est. Length: 67'
No. Production Piles: 6
No. Test Piles: 1

**EAST ABUTMENT (WB)
BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
h(E)	16	#5	7'-5"	—
h1(E)	8	#5	3'-7"	—
h2(E)	4	#5	4'-6"	—
p(E)	10	#7	20'-6"	—
p1(E)	10	#7	24'-9"	—
s(E)	41	#5	12'-7"	□
s1(E)	14	#5	3'-8"	└
s2(E)	4	#5	12'-11"	□
u(E)	8	#6	11'-4"	└
v(E)	144	#5	5'-11"	└
v1(E)	8	#5	5'-8"	—
v2(E)	8	#5	9'-9"	—
Structure Excavation		Cu. Yd.	76	
Concrete Structures		Cu. Yd.	19.7	
Reinforcement Bars, Epoxy Coated		Pound	2,900	
Furnishing Metal Shell Piles 12" X 0.250"		Foot	348	
Driving Piles		Foot	348	
Test Pile Metal Shells		Each	1	

PILE DATA

Type: Metal Shell 12"x0.25"
Nominal Required Bearing: 248 kips
Factored Resistance Available: 136 kips
Est. Length: 58'
No. Production Piles: 6
No. Test Piles: 1

DESIGNED -	TIFFANY L. MEIER
CHECKED -	RYAN P. NEGANGARD
DRAWN -	ANDRO R. SAMANIEGO
CHECKED -	T.L.M. / R.P.N.

EXAMINED	<i>Mark Shuffler</i> ENGINEER OF BRIDGE DESIGN
PASSED	<i>Jaime F. ...</i> ENGINEER OF BRIDGES AND STRUCTURES

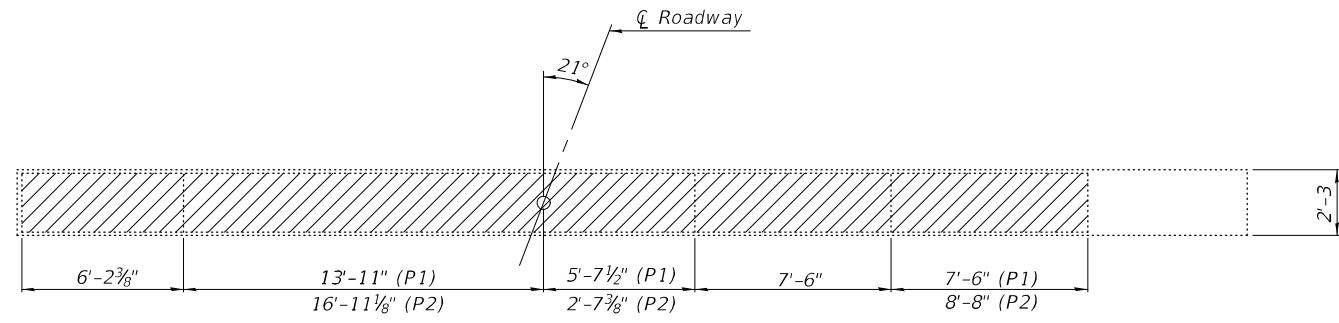
DATE -	DECEMBER 5, 2023
REVISED -	
REVISED -	

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

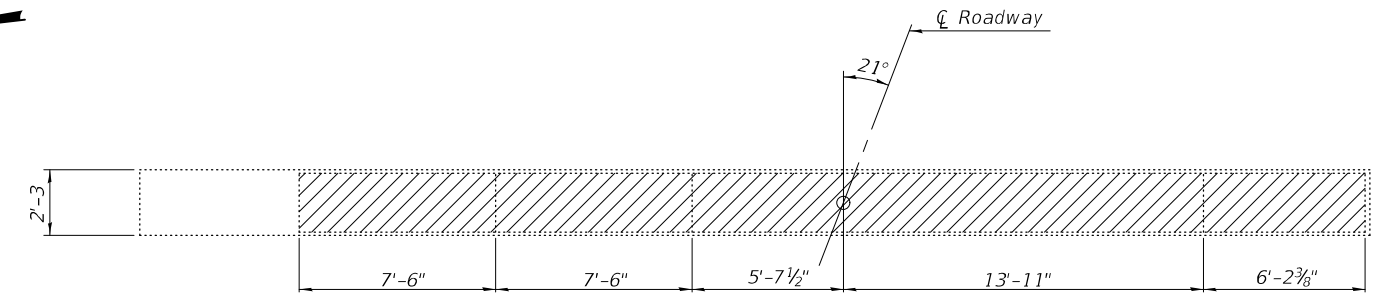
**ABUTMENT DETAILS
STRUCTURE NO. 051-0022 (EB) & 051-0023 (WB)**

SHEET 22 OF 33 SHEETS

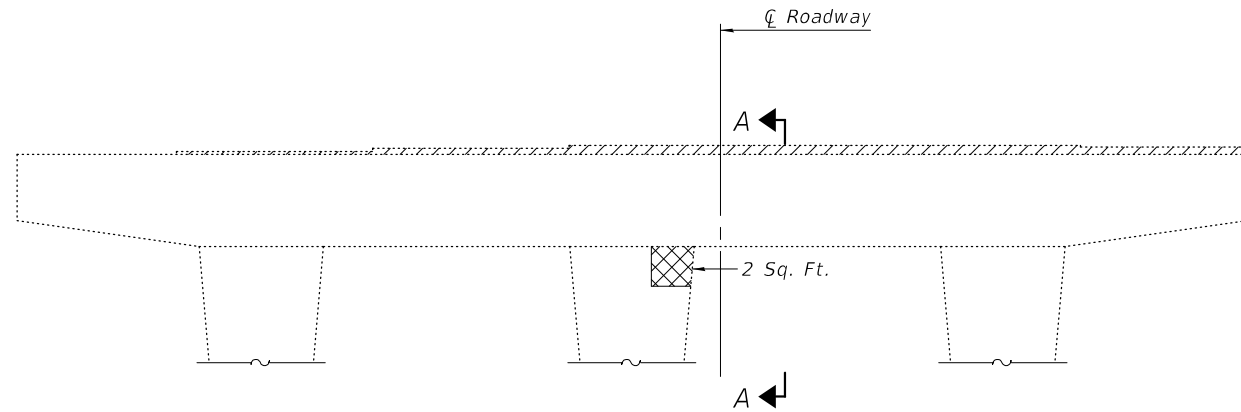
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
327	(51-24HB-1)BR	LAWRENCE	87	51
			CONTRACT NO. 74A09	
ILLINOIS			FED. AID PROJECT	



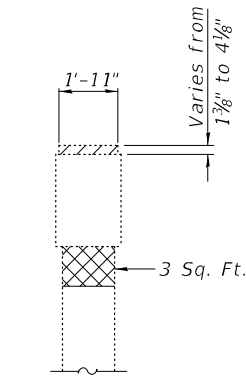
TOP PLAN (PIER 1 OR 2) EB



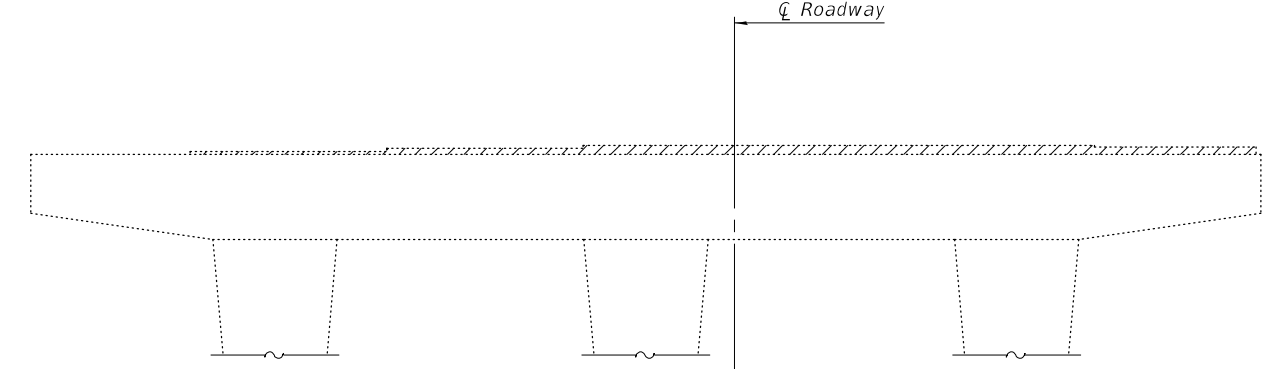
TOP PLAN (PIER 1 OR 2) WB



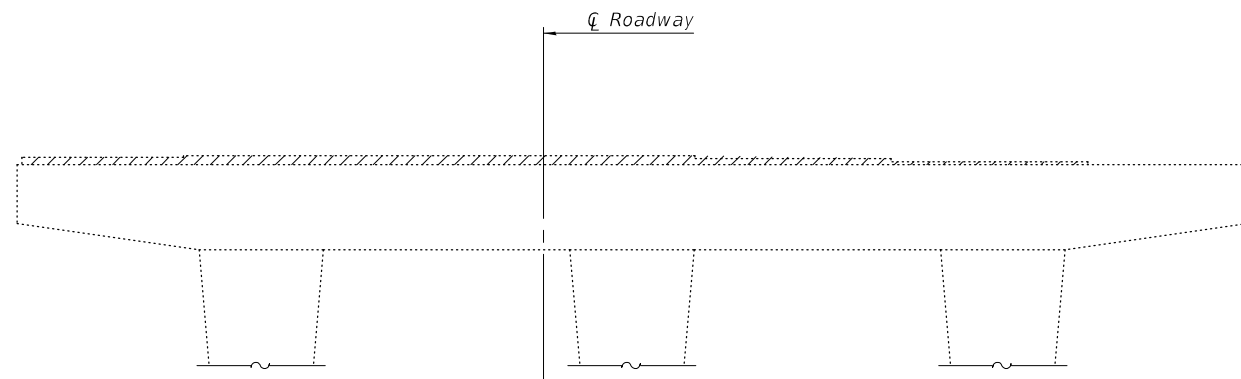
EAST FACE (PIER 1) EB



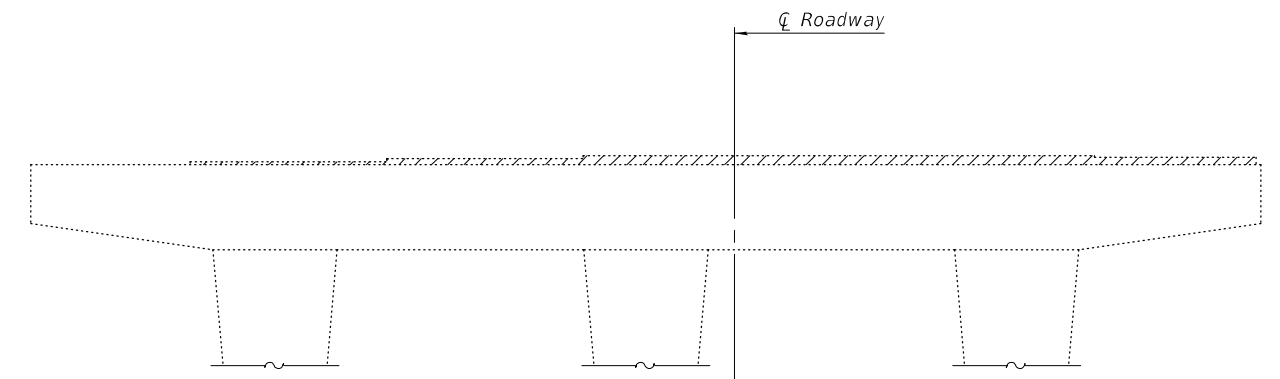
SECTION A-A



WEST FACE (PIER 1) WB



WEST FACE (PIER 2) EB



WEST FACE (PIER 2) WB

BILL OF MATERIAL

Item	Unit	Quantity
Structural Repair of Concrete (Depth Equal to or Less Than 5 Inches)	Sq. Ft.	5

Notes:
 Hatched areas indicate concrete removal. Concrete removal is included in the cost of Removal of Existing Structures.
 Cross-Hatched areas indicate Structural Repair of Concrete (Depth Equal to or Less Than 5 Inches).

MODEL: 000000-00000-023
 FILE NAME: p:\w\pwbentley.com\FWIDOT\Documents\Bureau of Bridges and Structures\Projects\0510022\CADD Plans\0510022-74A09.dgn
 12/6/2023 10:35:45 AM

DESIGNED - TIFFANY L. MEIER	EXAMINED
CHECKED - RYAN P. NEGANGARD	PASSED
DRAWN - ANDRO R. SAMANIEGO	
CHECKED - T.L.M. / R.P.N.	

EXAMINED: *Mark Shuffler*
 ENGINEER OF BRIDGE DESIGN
 PASSED: *Jaime F. [Signature]*
 ENGINEER OF BRIDGES AND STRUCTURES

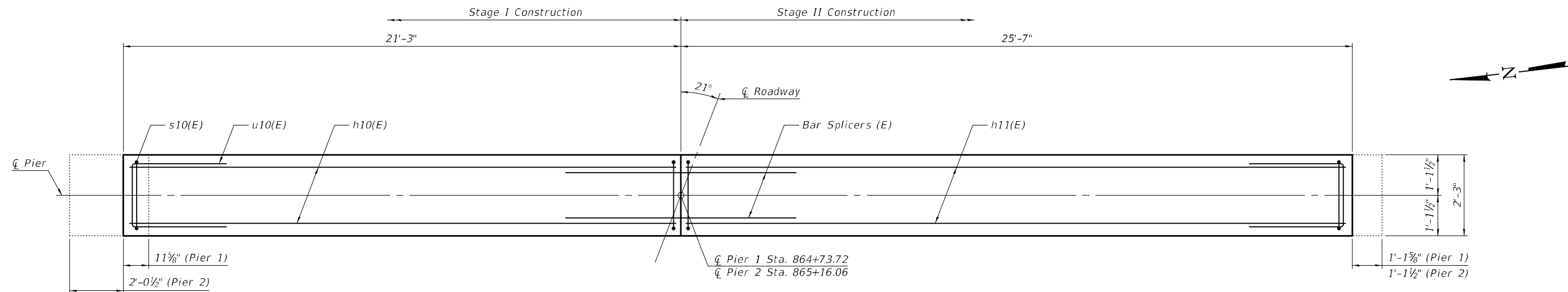
DATE - DECEMBER 5, 2023
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REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

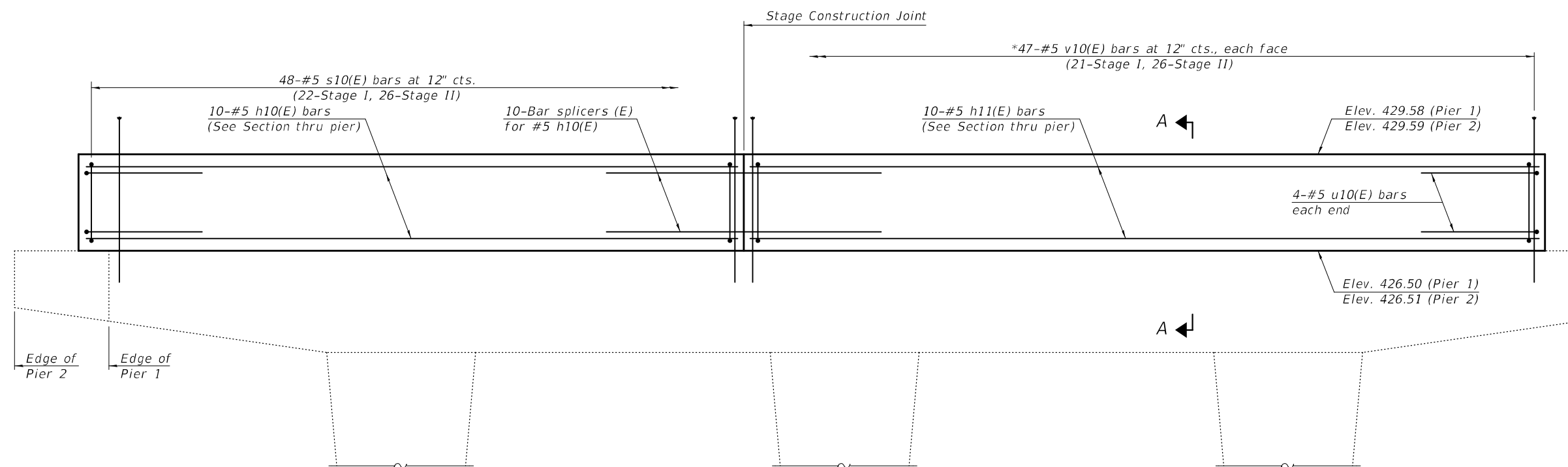
SUBSTRUCTURE REMOVALS AND REPAIRS
 STRUCTURE NO. 051-0022 (EB) & 051-0023 (WB)

SHEET 23 OF 33 SHEETS

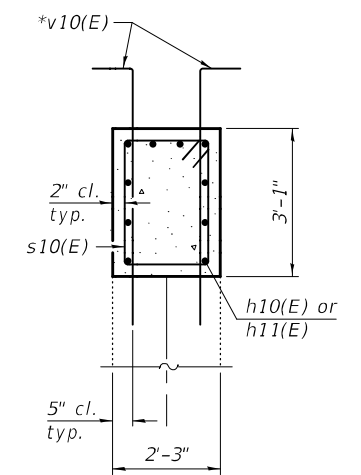
F.A.P. RTE. 327	SECTION (51-24HB-1)BR	COUNTY LAWRENCE	TOTAL SHEETS 87	SHEET NO. 52
ILLINOIS FED. AID PROJECT			CONTRACT NO. 74A09	



PLAN



ELEVATION
(Looking East)



SECTION A-A

*Epoxy grout bars in 9" min. drilled holes according to Section 584 of the Standard Specifications. Cost included with Reinforcement Bars, Epoxy Coated, typ.

Note:
See sheet 26 of 33 for additional details and Bill of Materials.

MODEL: 000000-00000-024
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DESIGNED -	TIFFANY L. MEIER
CHECKED -	RYAN P. NEGANGARD
DRAWN -	ANDRO R. SAMANIEGO
CHECKED -	T.L.M. / R.P.N.

EXAMINED	<i>Mark Shuffler</i> ENGINEER OF BRIDGE DESIGN
PASSED	<i>Jaime F. [Signature]</i> ENGINEER OF BRIDGES AND STRUCTURES

DATE -	DECEMBER 5, 2023
REVISED -	
REVISED -	

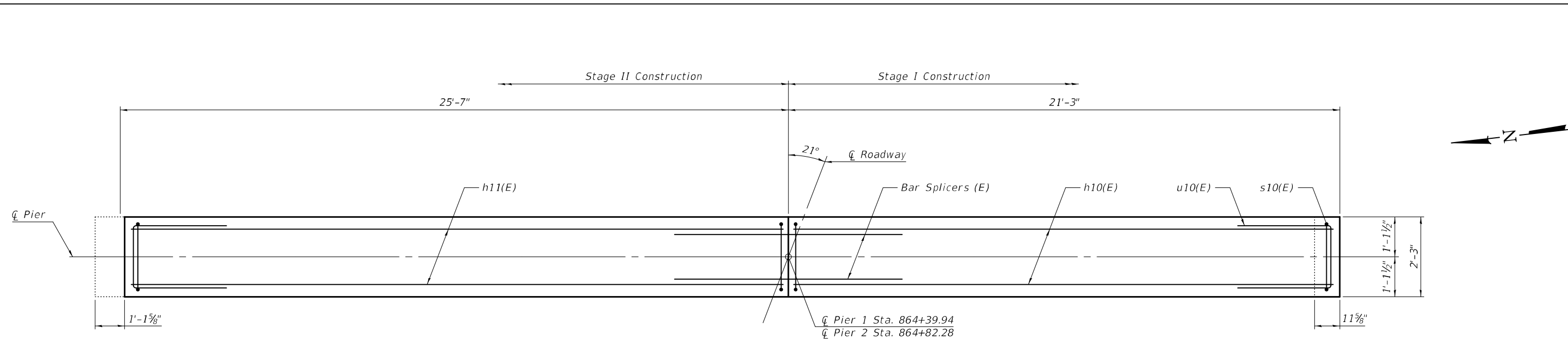
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PIERS
STRUCTURE NO. 051-0022 (EB)

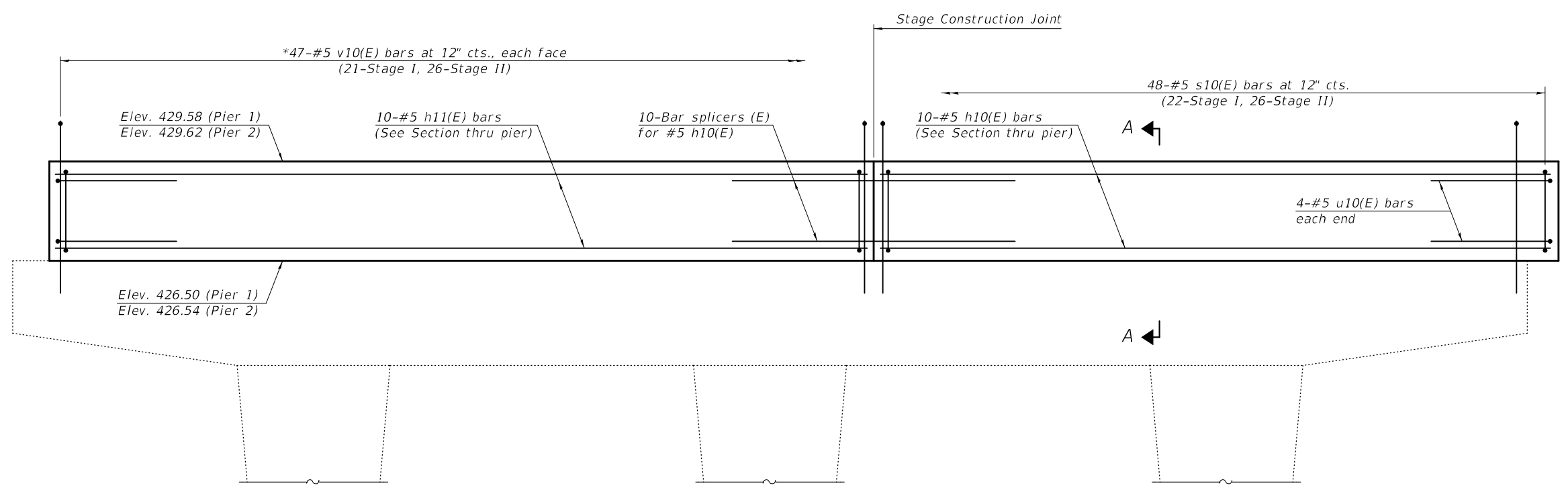
SHEET 24 OF 33 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
327	(51-24HB-1)BR	LAWRENCE	87	53
CONTRACT NO. 74A09				
ILLINOIS FED. AID PROJECT				

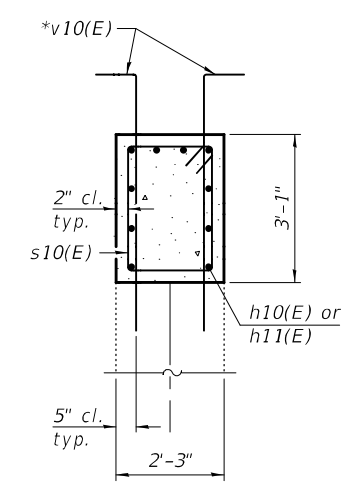
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PLAN



ELEVATION
(Looking East)



SECTION A-A

*Epoxy grout bars in 9" min. drilled holes according to Section 584 of the Standard Specifications. Cost included with Reinforcement Bars, Epoxy Coated, typ.

Note:
See sheet 26 of 33 for additional details and Bill of Materials.

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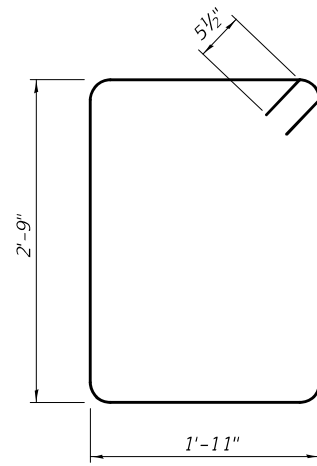
DESIGNED - TIFFANY L. MEIER	EXAMINED - <i>Mark Shuffler</i> ENGINEER OF BRIDGE DESIGN	DATE - DECEMBER 5, 2023
CHECKED - RYAN P. NEGANGARD	PASSED - <i>Jayne F. [Signature]</i> ENGINEER OF BRIDGES AND STRUCTURES	REVISED -
DRAWN - ANDRO R. SAMANIEGO		REVISED -
CHECKED - T.L.M. / R.P.N.		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

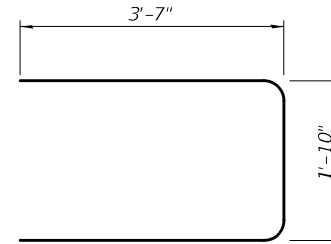
PIERS
STRUCTURE NO. 051-0023 (WB)

SHEET 25 OF 33 SHEETS

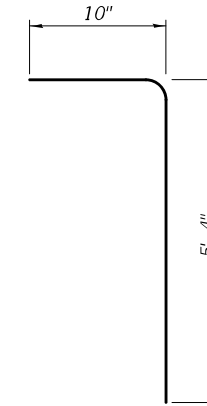
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
327	(51-24HB-1)BR	LAWRENCE	87	54
CONTRACT NO. 74A09				
ILLINOIS FED. AID PROJECT				



BAR s10(E)



BAR u10(E)



BAR v10(E)

PIER 1 (EB)
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h10(E)	10	#5	20'-11"	=====
h11(E)	10	#5	25'-3"	=====
s10(E)	48	#5	10'-3"	⏏
u10(E)	8	#5	9'-0"	⏏
v10(E)	94	#5	6'-2"	└┐
Concrete Structures			Cu. Yd.	12.0
Reinforcement Bars, Epoxy Coated			Pound	1,670

PIER 2 (EB)
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h10(E)	10	#5	20'-11"	=====
h11(E)	10	#5	25'-3"	=====
s10(E)	48	#5	10'-3"	⏏
u10(E)	8	#5	9'-0"	⏏
v10(E)	94	#5	6'-2"	└┐
Concrete Structures			Cu. Yd.	12.0
Reinforcement Bars, Epoxy Coated			Pound	1,670

PIER 1 (WB)
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h10(E)	10	#5	20'-11"	=====
h11(E)	10	#5	25'-3"	=====
s10(E)	48	#5	10'-3"	⏏
u10(E)	8	#5	9'-0"	⏏
v10(E)	94	#5	6'-2"	└┐
Concrete Structures			Cu. Yd.	12.0
Reinforcement Bars, Epoxy Coated			Pound	1,670

PIER 2 (WB)
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h10(E)	10	#5	20'-11"	=====
h11(E)	10	#5	25'-3"	=====
s10(E)	48	#5	10'-3"	⏏
u10(E)	8	#5	9'-0"	⏏
v10(E)	94	#5	6'-2"	└┐
Concrete Structures			Cu. Yd.	12.0
Reinforcement Bars, Epoxy Coated			Pound	1,670

MODEL: 000000-00000-026
FILE NAME: p:\w\p\w\benley.com\FWIDOT\Documents\DOT Offices\Bureau of Bridges and Structures\Projects\0510022\CADD Plans\0510022-74A09.dgn

DESIGNED - TIFFANY L. MEIER
CHECKED - RYAN P. NEGANGARD
DRAWN - ANDRO R. SAMANIEGO
CHECKED - T.L.M. / R.P.N.

EXAMINED
PASSED
Mark Shuffler
ENGINEER OF BRIDGE DESIGN
Joey F. [Signature]
ENGINEER OF BRIDGES AND STRUCTURES

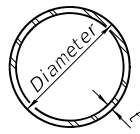
DATE - DECEMBER 5, 2023
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DEPARTMENT OF TRANSPORTATION

PIER DETAILS
STRUCTURE NO. 051-0022 (EB) & 051-0023 (WB)

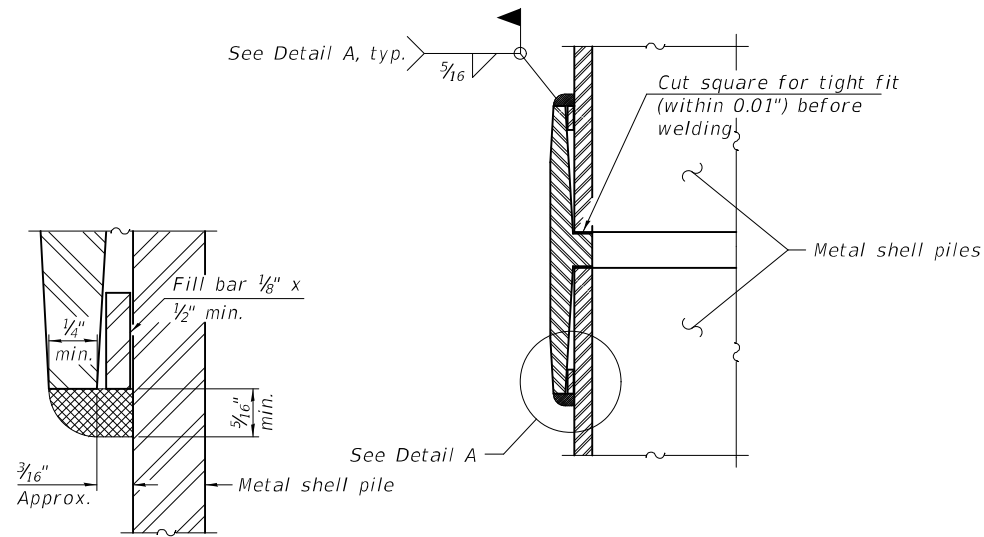
SHEET 26 OF 33 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
327	(51-24HB-1)BR	LAWRENCE	87	55
ILLINOIS			FED. AID PROJECT	

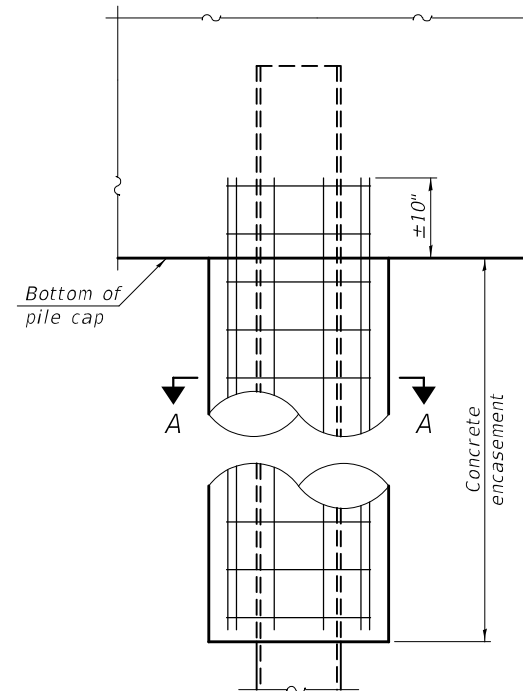


METAL SHELL PILE TABLE

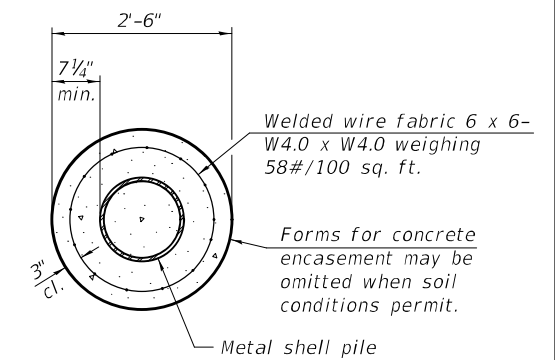
Designation and outside diameter	Wall thickness t	Weight per foot (Lbs./ft.)	Inside volume (yd. ³ /ft.)
PP12	0.250"	31.40	0.0267
PP14	0.250"	36.75	0.0368
PP14	0.312"	45.65	0.0361
PP16	0.312"	52.32	0.0478
PP16	0.375"	62.64	0.0470



DETAIL A

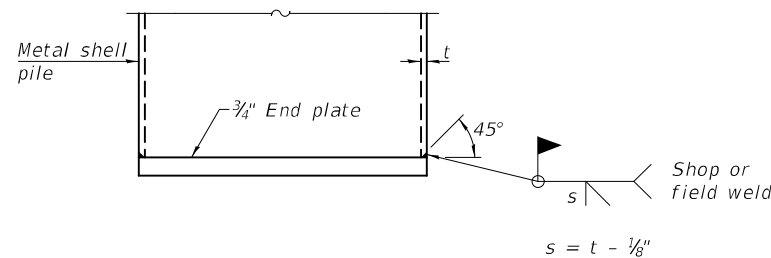


ELEVATION



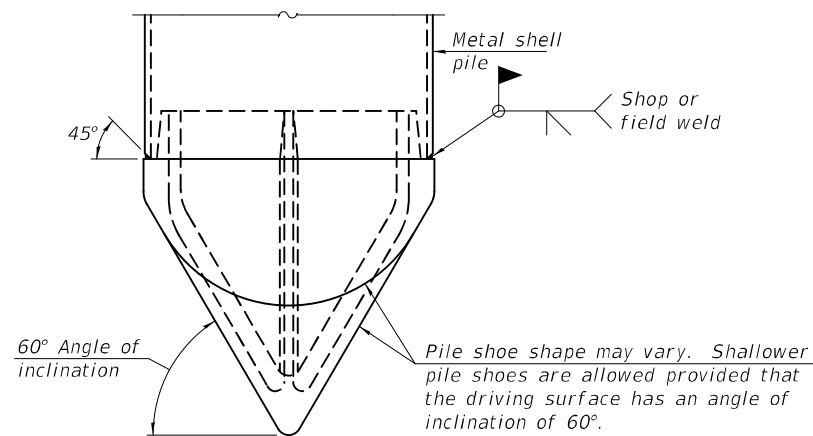
SECTION A-A

INDIVIDUAL PILE CONCRETE ENCASEMENT
(When specified)



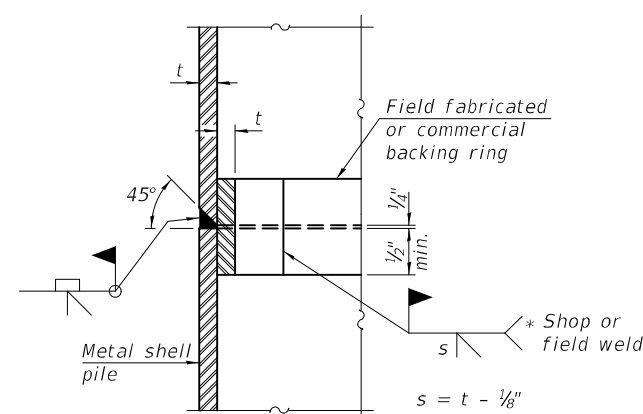
END PLATE ATTACHMENT

WELDED COMMERCIAL SPLICE
Notes:
The 1/8" x 1/2" min. fill bar may be constructed of 2 bars with a 1/8" max. gap between them.
Pile segments shall be driven to solid contact with splicer before welding.



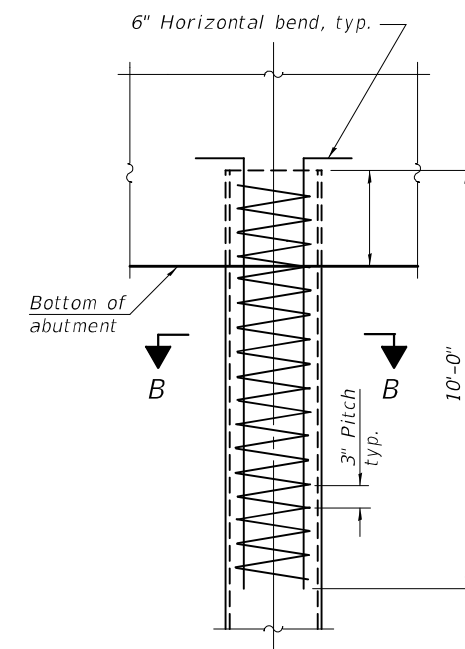
PILE SHOE ATTACHMENT

(When called for on the plans, the Contractor shall furnish metal shell pile shoes consisting of a single piece conical pile point as shown. The pile shoes shall be cast in one piece steel according to either ASTM A 148 Grade 80-50 or AASHTO M 103 Grade 65-35 and shall provide full bearing over the full circumference of the metal shell pile. The pile shoe shall have tapered leads to assure proper alignment and fitting and shall be secured to the pile with a circumferential weld).

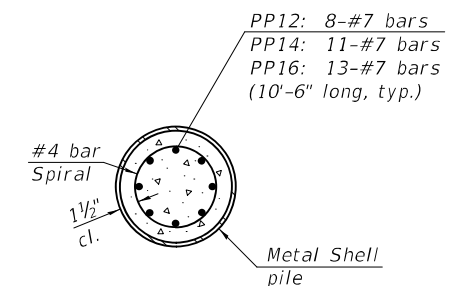


COMPLETE PENETRATION WELD SPLICE

* Field fabricated backing ring may be made from pile shell by removing segment to allow reducing circumference and vertically rejoin with partial joint penetration weld.



ELEVATION



SECTION B-B

REINFORCEMENT AT ABUTMENTS
(Omit when concrete encasement is specified)

Note:
The metal shell piles shall be according to Article 1006.05 of the Standard Specifications.

F-MS 2-1-2023

DESIGNED -	TIFFANY L. MEIER
CHECKED -	RYAN P. NEGANGARD
DRAWN -	ANDRO R. SAMANIEGO
CHECKED -	T.L.M. / R.P.N.

EXAMINED	<i>Mark Shuffler</i> ENGINEER OF BRIDGE DESIGN
PASSED	<i>James F. Hoff</i> ENGINEER OF BRIDGES AND STRUCTURES

DATE -	DECEMBER 5, 2023
REVISED -	
REVISED -	

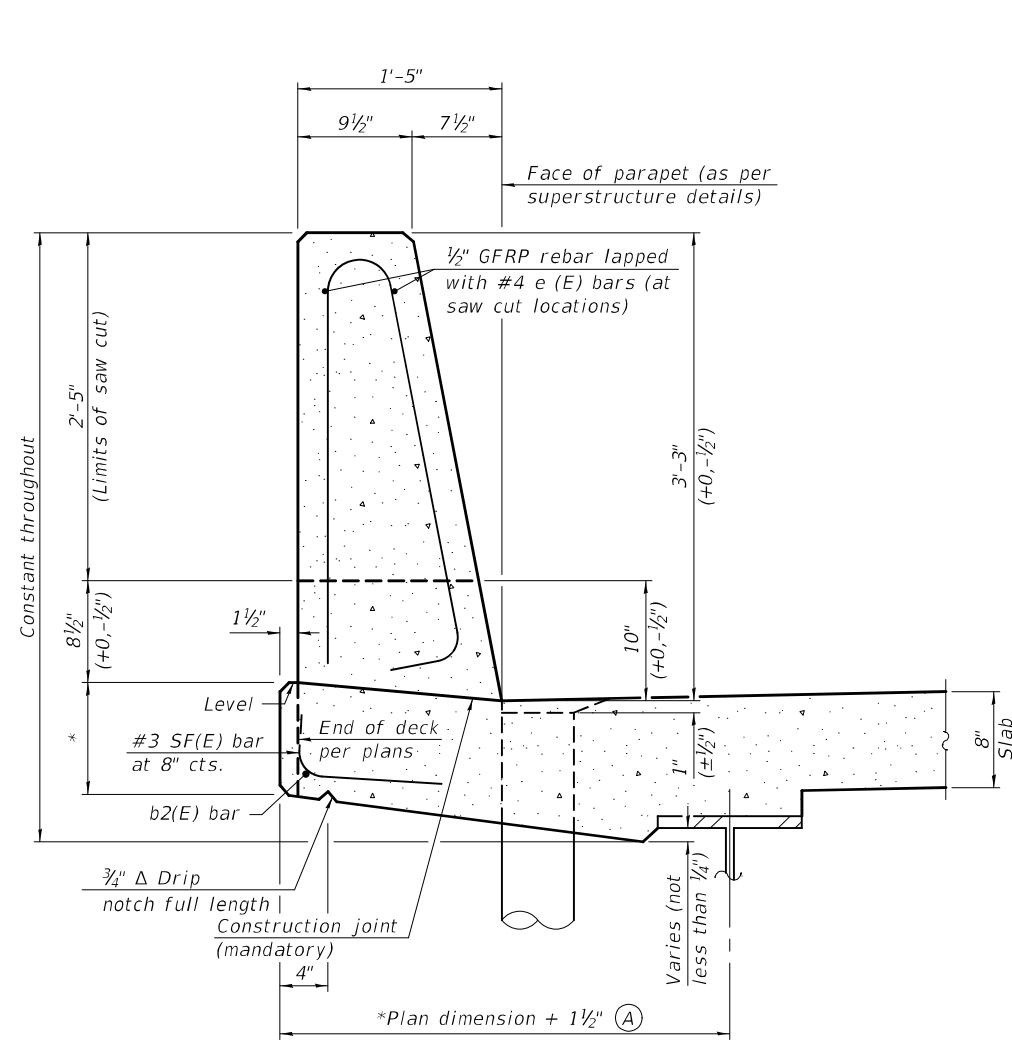
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**METAL SHELL PILE DETAILS
STRUCTURE NO. 051-0022 (EB) & 051-0023 (WB)**

SHEET 27 OF 33 SHEETS

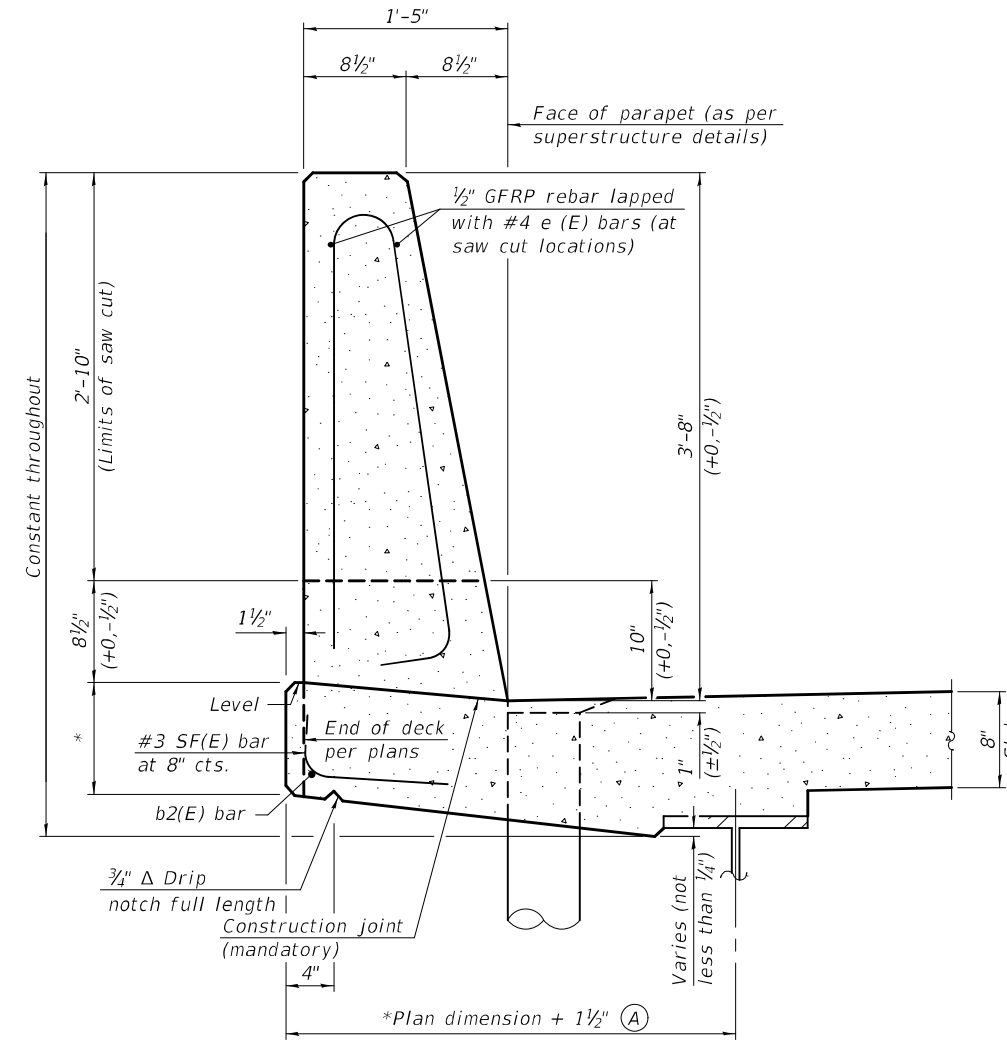
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
327	(51-24HB-1)BR	LAWRENCE	87	56
ILLINOIS			FED. AID PROJECT	

MODEL: 000000-00000-027
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**39" CONSTANT-SLOPE
PARAPET SECTION**

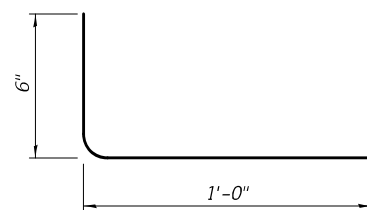
(Showing dimensions, d(E), and 1/2" Ø GFRP rebar)



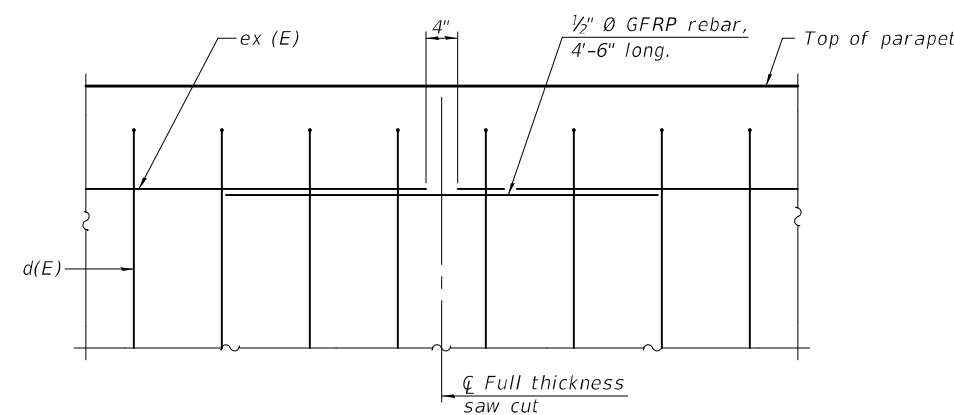
**44" CONSTANT-SLOPE
PARAPET SECTION**

(Showing dimensions, d(E), and 1/2" Ø GFRP rebar)

*See Superstructure Details.



SF(E) BAR



GFRP REBAR STIFFENING DETAIL

(Place as shown in parapet section at each parapet joint location.)

Notes:
All dimensions shall remain the same as shown on superstructure details, except dimension A which is to be revised as shown. Additional concrete needed to revise dimension A = 0.00348 cu. yds./ft. for 39" and 44" parapets.
Place full depth aluminum sheets as shown on superstructure details.
Replace all cork joint filler locations with a full thickness saw cut.
Steel superstructure shown. Other superstructure types similar.

MODEL: 000000-00000-028
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SFP 39-44

11-1-2022

DESIGNED -	TIFFANY L. MEIER
CHECKED -	RYAN P. NEGANGARD
DRAWN -	ANDRO R. SAMANIEGO
CHECKED -	T.L.M. / R.P.N.

EXAMINED	<i>Mark Shuffler</i> ENGINEER OF BRIDGE DESIGN
PASSED	<i>Joey F. [Signature]</i> ENGINEER OF BRIDGES AND STRUCTURES

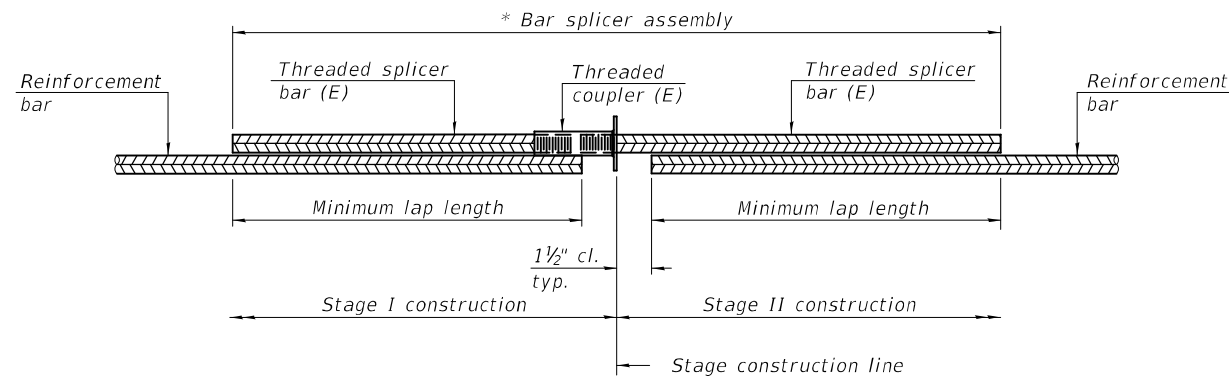
DATE -	DECEMBER 5, 2023
REVISED -	
REVISED -	

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**CONCRETE PARAPET SLIPFORMING OPTION
STRUCTURE NO. 051-0022 (EB) & 051-0023 (WB)**

SHEET 28 OF 33 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
327	(51-24HB-1)BR	LAWRENCE	87	57
CONTRACT NO. 74A09				
ILLINOIS FED. AID PROJECT				



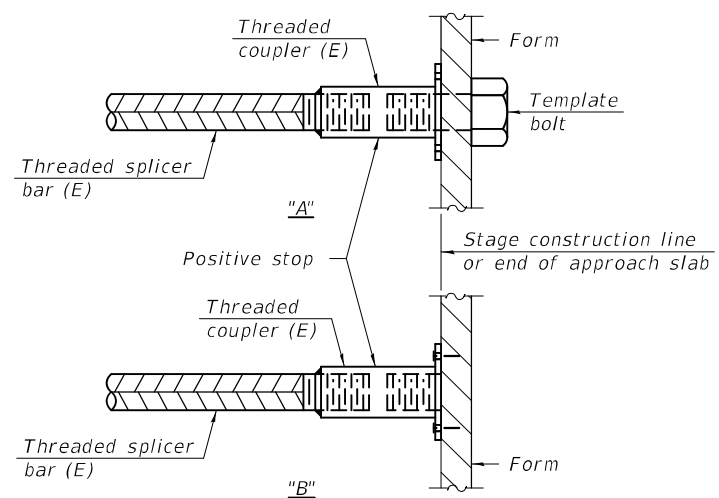
STANDARD BAR SPLICER ASSEMBLY PLAN

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

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

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

Location	Bar size	No. assemblies required	Minimum lap length
Slab (Top)	#7	398	4'-8"
Slab (Bottom)	#6	430	3'-7"
Over Abutment / Pier	#5	16	3'-0"
Approach Slab (Top)	#5	172	3'-4"
Approach Slab (Bottom)	#8	224	4'-9"
Approach Slab Footing	#5	160	3'-2"
Abutment Cap	#7	40	5'-0"
Pier Cap Extension	#5	40	3'-7"

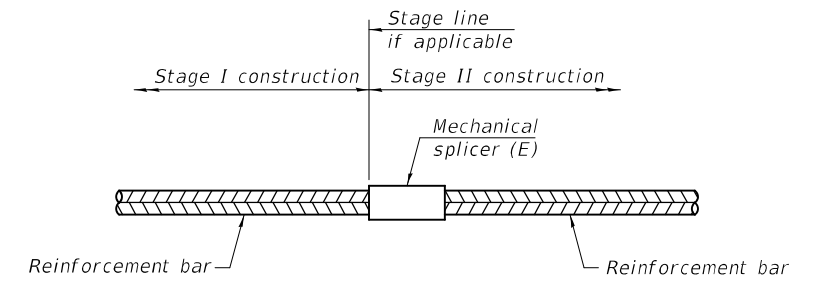


INSTALLATION AND SETTING METHODS

"A" : Set bar splicer assembly by means of a template bolt.

"B" : Set bar splicer assembly by nailing to wood forms or cementing to steel forms.

(E) : Indicates epoxy coating.



STANDARD MECHANICAL SPLICER

Location	Bar size	No. assemblies required

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

MODEL: 000000-00000-029
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BSD-1

2-1-2023

DESIGNED -	TIFFANY L. MEIER
CHECKED -	RYAN P. NEGANGARD
DRAWN -	ANDRO R. SAMANIEGO
CHECKED -	T.L.M. / R.P.N.

EXAMINED	<i>Mark Shuffin</i> ENGINEER OF BRIDGE DESIGN	DATE -	DECEMBER 5, 2023
PASSED	<i>Jayne F. [Signature]</i> ENGINEER OF BRIDGES AND STRUCTURES	REVISED -	
		REVISED -	

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**BAR SPLICER ASSEMBLY & MECHANICAL SPLICER DETAILS
 STRUCTURE NO. 051-0022 (EB) & 051-0023 (WB)**

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
327	(51-24HB-1)BR	LAWRENCE	87	58
			CONTRACT NO. 74A09	
		ILLINOIS	FED. AID PROJECT	

SHEET 29 OF 33 SHEETS

12/6/2023 10:35:48 AM

Page 1 of 4

Illinois Department of Transportation
Division of Highways
Illinois Department of Transportation

SOIL BORING LOG

Date 7/12/22

ROUTE FAP 327 (US 50) DESCRIPTION US Route 50 over TR 262 LOGGED BY Sandschafer

SECTION (51-24HB-1)BR LOCATION Northwest Corner, SEC. 12, TWP. 3N, RNG. 11W, 3rd PM,
Latitude W 87.589669, Longitude N 38.717085

COUNTY Lawrence DRILLING METHOD Hollow stem auger & split spoon HAMMER Auto ETR = 91.8% @ 57.4 bpm

STRUCT. NO. Station	DEPTH H	BULGE L	SHEAR O	SPT W	SPT S	QU S	M O	M O	Surface Water Elev.		Stream Bed Elev.		DEPTH H	BULGE L	SHEAR O	SPT W	SPT S	QU S	M O	M O	
									ft	ft	ft	ft									
051-0022 864+78									NA	ft	NA	ft									
BORING NO. <u>1 (West Abutment)</u> Station <u>863+93</u> Offset <u>140.0 ft LT</u> Ground Surface Elev. <u>413.77</u> ft (ft) (/6") (tsf) (%)																					
Topsail, Sandy Clay Loam 412.77																					
Brown, SANDY LOAM																					
Medium, moist																					
Very loose																					
Medium, wet, brown, fine-grained, SAND 406.77																					
Loose																					
Medium-grained, with 1/2" to 3/4" rounded rock																					
Medium, grey																					
Loose, brown, with 1/2" to 1" rock																					
393.77-20																					

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer, E-Estimated)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206), WH-Weight of Hammer, NT-Not Tested.

BBS, form 137 (Rev. 8-99)

Page 2 of 4

Illinois Department of Transportation
Division of Highways
Illinois Department of Transportation

SOIL BORING LOG

Date 7/12/22

ROUTE FAP 327 (US 50) DESCRIPTION US Route 50 over TR 262 LOGGED BY Sandschafer

SECTION (51-24HB-1)BR LOCATION Northwest Corner, SEC. 12, TWP. 3N, RNG. 11W, 3rd PM,
Latitude W 87.589669, Longitude N 38.717085

COUNTY Lawrence DRILLING METHOD Hollow stem auger & split spoon HAMMER Auto ETR = 91.8% @ 57.4 bpm

STRUCT. NO. Station	DEPTH H	BULGE L	SHEAR O	SPT W	SPT S	QU S	M O	M O	Surface Water Elev.		Stream Bed Elev.		DEPTH H	BULGE L	SHEAR O	SPT W	SPT S	QU S	M O	M O	
									ft	ft	ft	ft									
051-0022 864+78									NA	ft	NA	ft									
BORING NO. <u>1 (West Abutment)</u> Station <u>863+93</u> Offset <u>140.0 ft LT</u> Ground Surface Elev. <u>413.77</u> ft (ft) (/6") (tsf) (%)																					
Soft, moist, grey, SILTY CLAY																					
Very soft, moist, grey, SILT																					
Medium, wet, brown, fine-grained, SAND																					
353.77-60																					

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer, E-Estimated)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206), WH-Weight of Hammer, NT-Not Tested.

BBS, form 137 (Rev. 8-99)

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DESIGNED - TIFFANY L. MEIER	EXAMINED - <i>Mark Shuffler</i> ENGINEER OF BRIDGE DESIGN	DATE - DECEMBER 5, 2023
CHECKED - RYAN P. NEGANGARD	PASSED - <i>James F. ...</i> ENGINEER OF BRIDGES AND STRUCTURES	REVISED -
DRAWN - ANDRO R. SAMANIEGO		REVISED -
CHECKED - T.L.M. / R.P.N.		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOIL BORING LOGS
STRUCTURE NO. 051-0022 (EB) & 051-0023 (WB)

SHEET 30 OF 33 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
327	(51-24HB-1)BR	LAWRENCE	87	59
CONTRACT NO. 74A09				
ILLINOIS		FED. AID PROJECT		

Page 3 of 4

Illinois Department of Transportation
Division of Highways
Illinois Department of Transportation

SOIL BORING LOG

Date 7/12/22

ROUTE FAP 327 (US 50) DESCRIPTION US Route 50 over TR 262 LOGGED BYE. Sandschafer

SECTION (51-24HB-1)BR LOCATION Northwest Corner, SEC. 12, TWP. 3N, RNG. 11W, 3rd PM,
Latitude W 87.589669, Longitude N 38.717085

COUNTY Lawrence DRILLING METHOD Hollow stem auger & split spoon HAMMER Auto ETR = 91.8% @ 57.4 bpm

STRUCT. NO. 051-0022
Station 864+78

BORING NO. 1 (West Abutment)
Station 863+93
Offset 140.0 ft LT
Ground Surface Elev. 413.77 ft

Description	Depth (ft)	Bulge (ft)	Shear (tsf)	Penetrometer (blows)	Estimated (blows)	Surface Water Elev.		Stream Bed Elev.		Groundwater Elev.:		D.P.T.H. (ft)	B.L.O.S. (%)	U.C.S. (%)	M.O.I.S.T.
						NA	ft	NA	ft	First Encounter	Upon Completion				
Dense, moist, brown, medium-grained, SAND with 1/2" to 5/8" rounded and angular rock 5.4% passing #200 Sieve	23	NT	NT									50-9/16"	NT	NT	
	24											50-1/2"			
	-85														
	-105														
	324.27														
Very stiff, moist, grey, SILTY LOAM	-90	19													
	27	2.4	20												
	28	S													
	-95														
	-115														
	313.77	100	48												

SOIL BORING 051-0022-0023 SOIL ROCK 2022.GPJ IL DOT.GDT 5/19/23

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer, E-Estimated)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206), WH-Weight of Hammer, NT-Not Tested.

BBS, form 137 (Rev. 8-99)

Page 4 of 4

Illinois Department of Transportation
Division of Highways
Illinois Department of Transportation

ROCK CORE LOG

Date 7/12/22

ROUTE FAP 327 (US 50) DESCRIPTION US Route 50 over TR 262 LOGGED BYE. Sandschafer

SECTION (51-24HB-1)BR LOCATION Northwest Corner, SEC. 12, TWP. 3N, RNG. 11W, 3rd PM,
Latitude W 87.589669, Longitude N 38.717085

COUNTY Lawrence CORING METHOD Rotary, surf set diamond bit

STRUCT. NO. 051-0022
Station 864+78

BORING NO. 1 (West Abutment)
Station 863+93
Offset 140.0 ft LT
Ground Surface Elev. 413.77 ft

CORING BARREL TYPE & SIZE NW, conv dbl bbl, split inner
Core Diameter 2.1 in
Top of Rock Elev. 312.77 ft
Begin Core Elev. 312.77 ft

Description	Depth (ft)	D.P.T.H. (ft)	C.O.R.E. (%)	R.Q.D. (%)	C.O.R.E. (min/ft)	S.T.R.E.N.G.T.H. (tsf)
Slightly weathered, grey, SANDSTONE	312.77	C1	63	0	1.4	355.2
	-105					
	307.77	C2	33	26	1.3	
	-110					
	302.77					
Benchmark: BM 442 - Chiseled Square on East Pler of Eastbound Bridge over Road 1720E, Sta. 865+50, 20' RT of EB 50. Elevation = 416.167 feet. End of Boring						
	-115					
	-120					

ROCK CORE 051-0022-0023 SOIL ROCK 2022.GPJ IL DOT.GDT 5/19/23

Color pictures of the cores Available on request
Cores will be stored for examination until Construction is Completed
The "Strength" column represents the uniaxial compressive strength of the core sample (ASTM D-2938)

BBS, form 138 (Rev. 8-99)

MODEL: 000000-00000-031
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12/6/2023 10:35:49 AM

DESIGNED - TIFFANY L. MEIER	EXAMINED - <i>Mark Shuffler</i> ENGINEER OF BRIDGE DESIGN	DATE - DECEMBER 5, 2023
CHECKED - RYAN P. NEGANGARD	PASSED - <i>Jaime F. ...</i> ENGINEER OF BRIDGES AND STRUCTURES	REVISED -
DRAWN - ANDRO R. SAMANIEGO		REVISED -
CHECKED - T.L.M. / R.P.N.		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOIL BORING LOGS
STRUCTURE NO. 051-0022 (EB) & 051-0023 (WB)

SHEET 31 OF 33 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
327	(51-24HB-1)BR	LAWRENCE	87	60
CONTRACT NO. 74A09				
ILLINOIS		FED. AID PROJECT		

ROUTE FAP 327 (US 50) DESCRIPTION US Route 50 over TR 262 LOGGED BY: Sandschafer
 SECTION (51-24HB-1)BR LOCATION Northwest Corner, SEC. 12, TWP. 3N, RNG. 11W, 3rd PM,
 Latitude W 87.589659, Longitude N 38.716658
 COUNTY Lawrence DRILLING METHOD Hollow stem auger & split spoon HAMMERAuto ETR = 91.8% @ 57.4 bpm

STRUCT. NO.	Station	DPTH	BLWS	UCS	MOIST	Surface Water Elev.	Stream Bed Elev.	DPTH	BLWS	UCS	MOIST
		(ft)	(/6")	(tsf)	(%)	ft	ft	(ft)	(/6")	(tsf)	(%)
BORING NO. 3 (West Embankment) Station 864+00 Offset 39.0 ft RT Ground Surface Elev. 431.12	Topsail	430.82				NA	NA	7	NT	9	
	Brown, SANDY CLAY					NA	NA	6	NT		
			3								
	Medium, moist, grey			0.9	7						
			4		B						
	Stiff, moist, brown		-5					-25			
			2		1.4	11					
			5		B						
	Grey		2								
			4		1.7	10					
			5		B						
	Medium, moist, grey, SANDY LOAM		-10					-30			
			11		NT	9					
		16		NT							
Stiff, moist, grey, SANDY CLAY LOAM		4									
		13		1.3	9						
		14		S							
Stiff, moist, grey, SANDY CLAY		-15					-35				
		4		1.8	12						
		9		B							
Medium, moist, grey, SANDY LOAM		4									
		12		NT	9						
		10		NT							
		4									
		411.12-20					-40				

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer, E-Estimated)
 The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206), WH-Weight of Hammer, NT-Not Tested.
 BBS_form 137 (Rev. 8-99)

ROUTE FAP 327 (US 50) DESCRIPTION US Route 50 over TR 262 LOGGED BY: Sandschafer
 SECTION (51-24HB-1)BR LOCATION Northwest Corner, SEC. 12, TWP. 3N, RNG. 11W, 3rd PM,
 Latitude W 87.589202, Longitude N 38.716558
 COUNTY Lawrence DRILLING METHOD Hollow stem auger & split spoon HAMMERAuto ETR = 91.8% @ 57.4 bpm

STRUCT. NO.	Station	DPTH	BLWS	UCS	MOIST	Surface Water Elev.	Stream Bed Elev.	DPTH	BLWS	UCS	MOIST
		(ft)	(/6")	(tsf)	(%)	ft	ft	(ft)	(/6")	(tsf)	(%)
BORING NO. 4 (East Embankment) Station 865+25 Offset 34.0 ft LT Ground Surface Elev. 431.24	Topsail	430.94				NA	NA	3	0.2	9	
	Brown, SANDY CLAY					NA	NA	4	S		
			3								
	Stiff, wet, grey			1.6	10						
			3		B						
	Very soft, moist, brown, SANDY LOAM		-5					-25			
			9		0.1	11					
			14		S						
	Medium, moist, grey, SANDY CLAY		1								
			5		0.9	8					
			6		B						
	Medium, wet, grey, SANDY LOAM		-10					-30			
			11		0.2	10					
		10		S							
Stiff, moist, grey, SANDY CLAY LOAM		1									
		7		1.6	10						
		10		S							
Very soft, moist, grey, SANDY LOAM		-15					-35				
		5		1.1	13						
		4		B							
Medium		1									
		4		0.8	8						
		7		S							
		411.24-20					-40				

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer, E-Estimated)
 The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206), WH-Weight of Hammer, NT-Not Tested.
 BBS_form 137 (Rev. 8-99)

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DESIGNED - TIFFANY L. MEIER	EXAMINED	<i>Mark Shuffler</i> ENGINEER OF BRIDGE DESIGN	DATE - DECEMBER 5, 2023
CHECKED - RYAN P. NEGANGARD	PASSED	<i>Jaime F. Lopez</i> ENGINEER OF BRIDGES AND STRUCTURES	REVISED -
DRAWN - ANDRO R. SAMANIEGO			REVISED -
CHECKED - T.L.M. / R.P.N.			

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**SOIL BORING LOGS
 STRUCTURE NO. 051-0022 (EB) & 051-0023 (WB)**

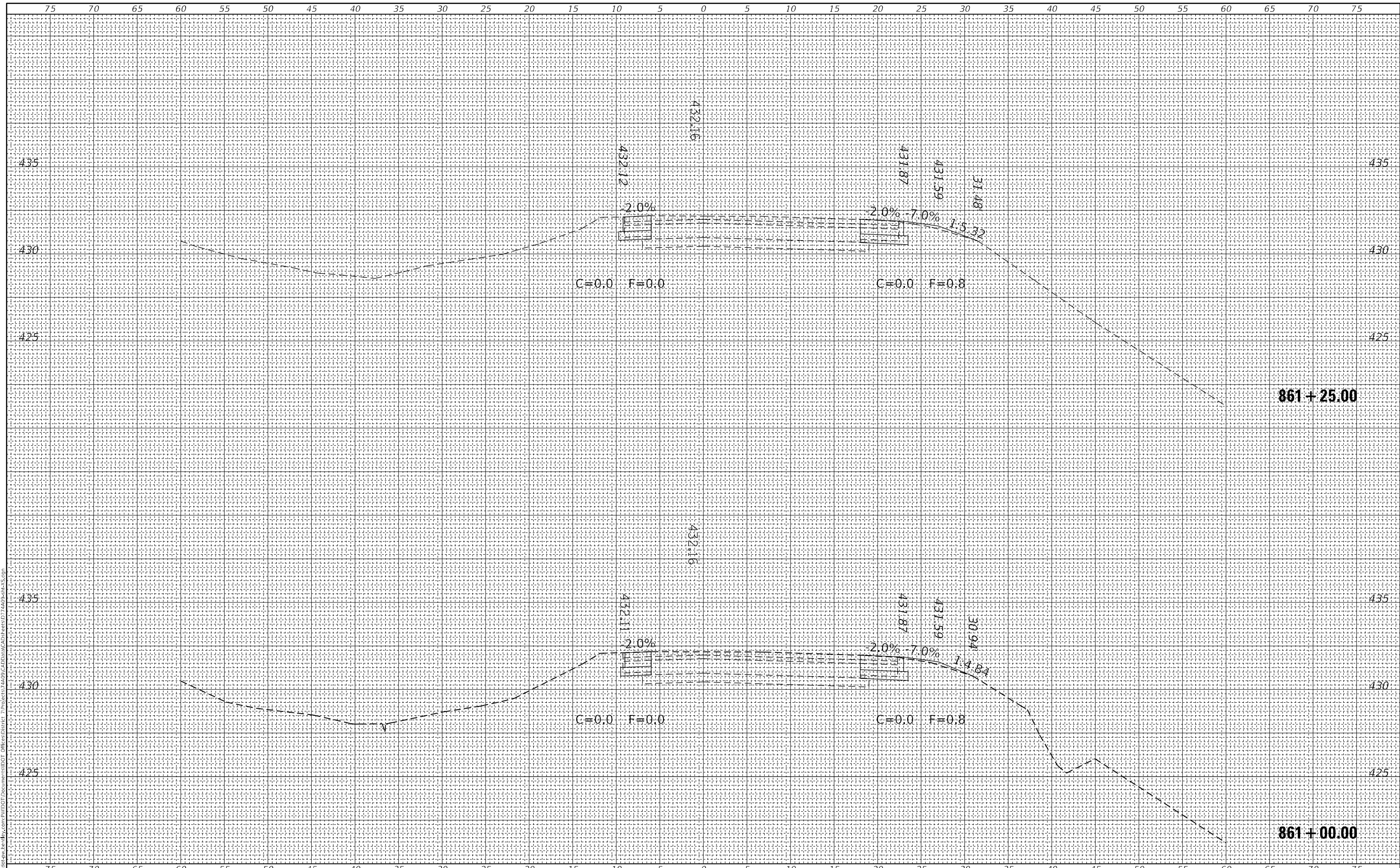
SHEET 33 OF 33 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
327	(51-24HB-1)BR	LAWRENCE	87	62
			CONTRACT NO. 74A09	
		ILLINOIS FED. AID PROJECT		

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

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

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USER NAME = jessica.ville
DESIGNED -
DRAWN -
PLLOT SCALE = 10,0000 * / in.
PLLOT DATE = 10/6/2023

DESIGNED -
DRAWN -
CHECKED -
DATE -

REVISED -
REVISED -
REVISED -
REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

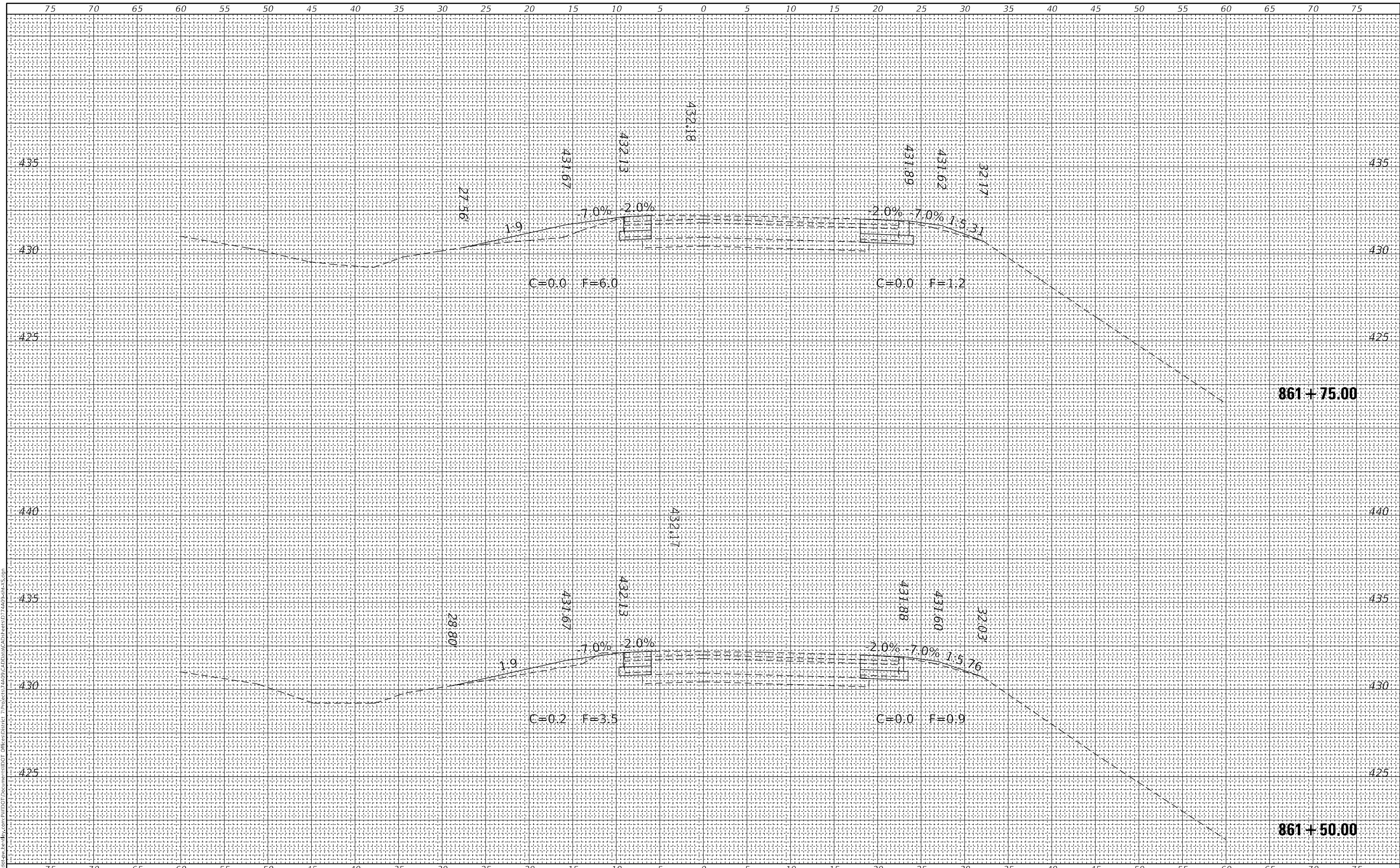
SCALE: SHEET 1 OF 25 SHEETS STA. TO STA.			
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**SN 051-0022 /JS 50
 EASTBOUND CROSS SECTION**

F.A.P. RTE. 327	SECTION (51-24HB-1)BR	COUNTY LAWRENCE	TOTAL SHEETS 87	SHEET NO. 63
ILLINOIS FED. AID PROJECT			CONTRACT NO. 74A09	

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

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



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PLOT DATE = 10/6/2023	DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

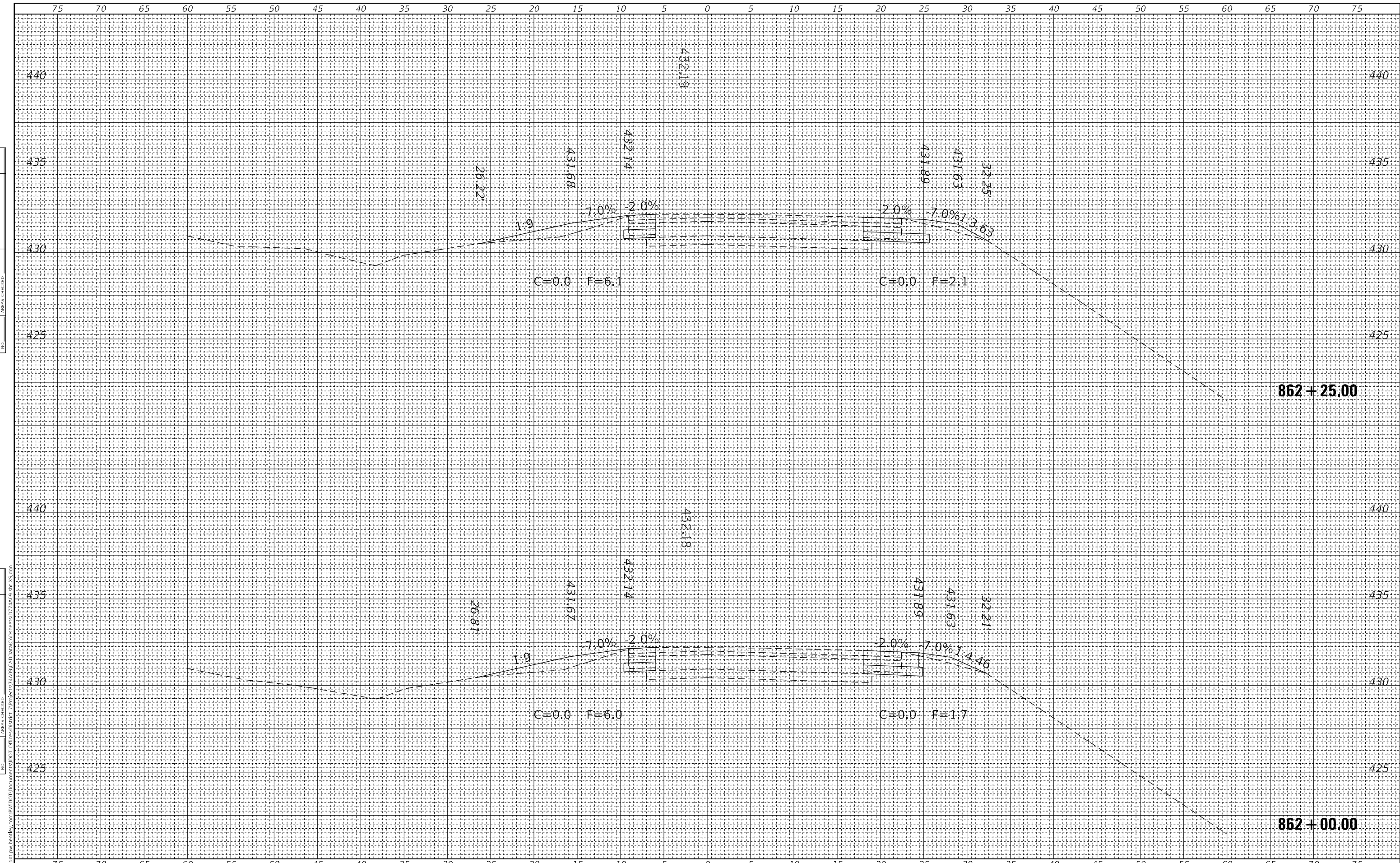
**SN 051-0022 /JS 50
 EASTBOUND CROSS SECTION**

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
327	(51-24HB-1)BR	LAWRENCE	87	64
CONTRACT NO. 74A09				
ILLINOIS FED. AID PROJECT				

DATE	
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FINAL SURVEY NO.	
NOTE BOOK NO.	
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PLOT DATE = 10/6/2023	DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

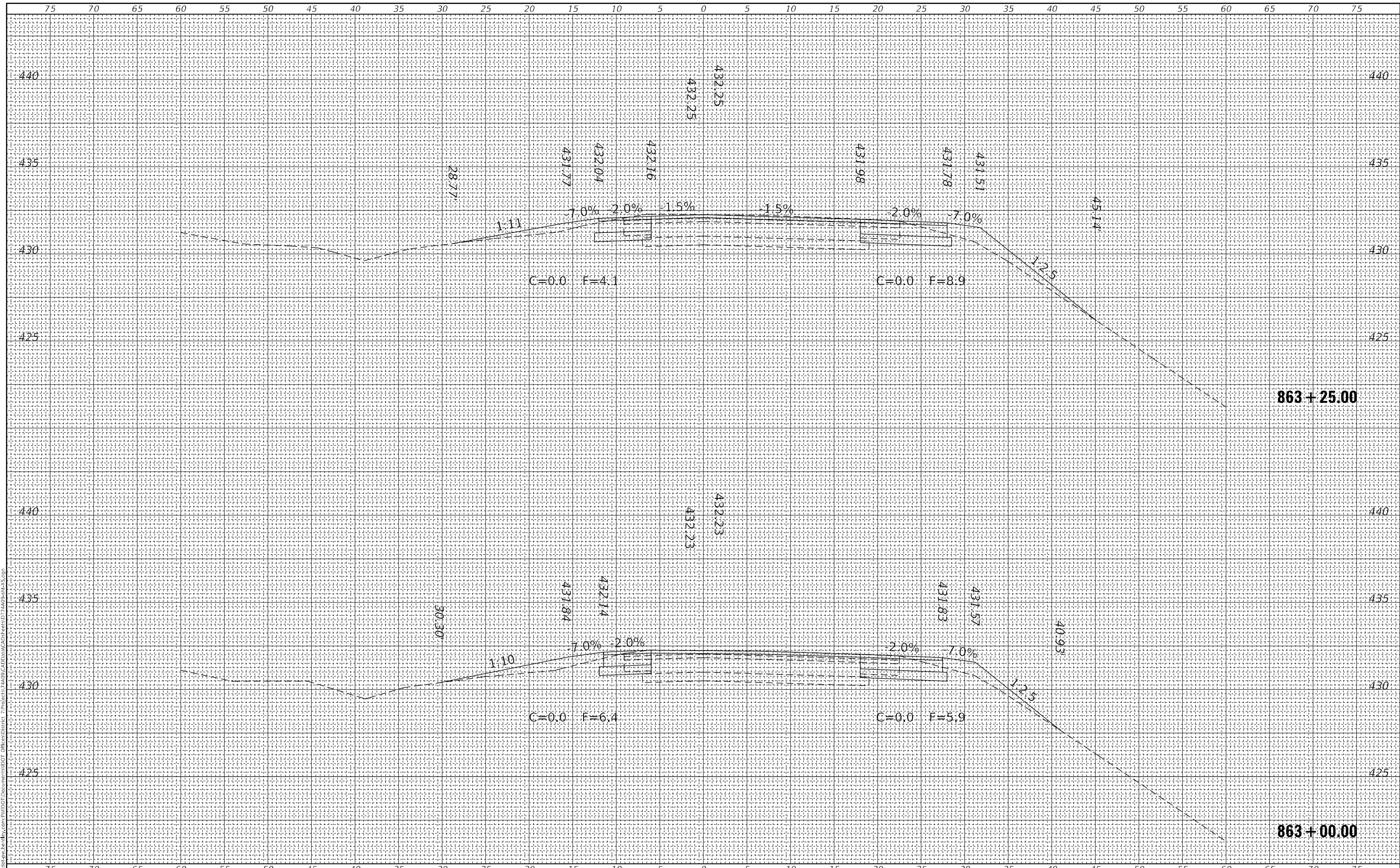
**SN 051-0022 /JS 50
 EASTBOUND CROSS SECTION**

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

F.A.P. RTE. 327	SECTION (51-24HB-1)BR	COUNTY LAWRENCE	TOTAL SHEETS 87	SHEET NO. 65
ILLINOIS FED. AID PROJECT			CONTRACT NO. 74A09	

DATE	
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FINAL SURVEY	
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PLOT DATE = 10/6/2023	DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

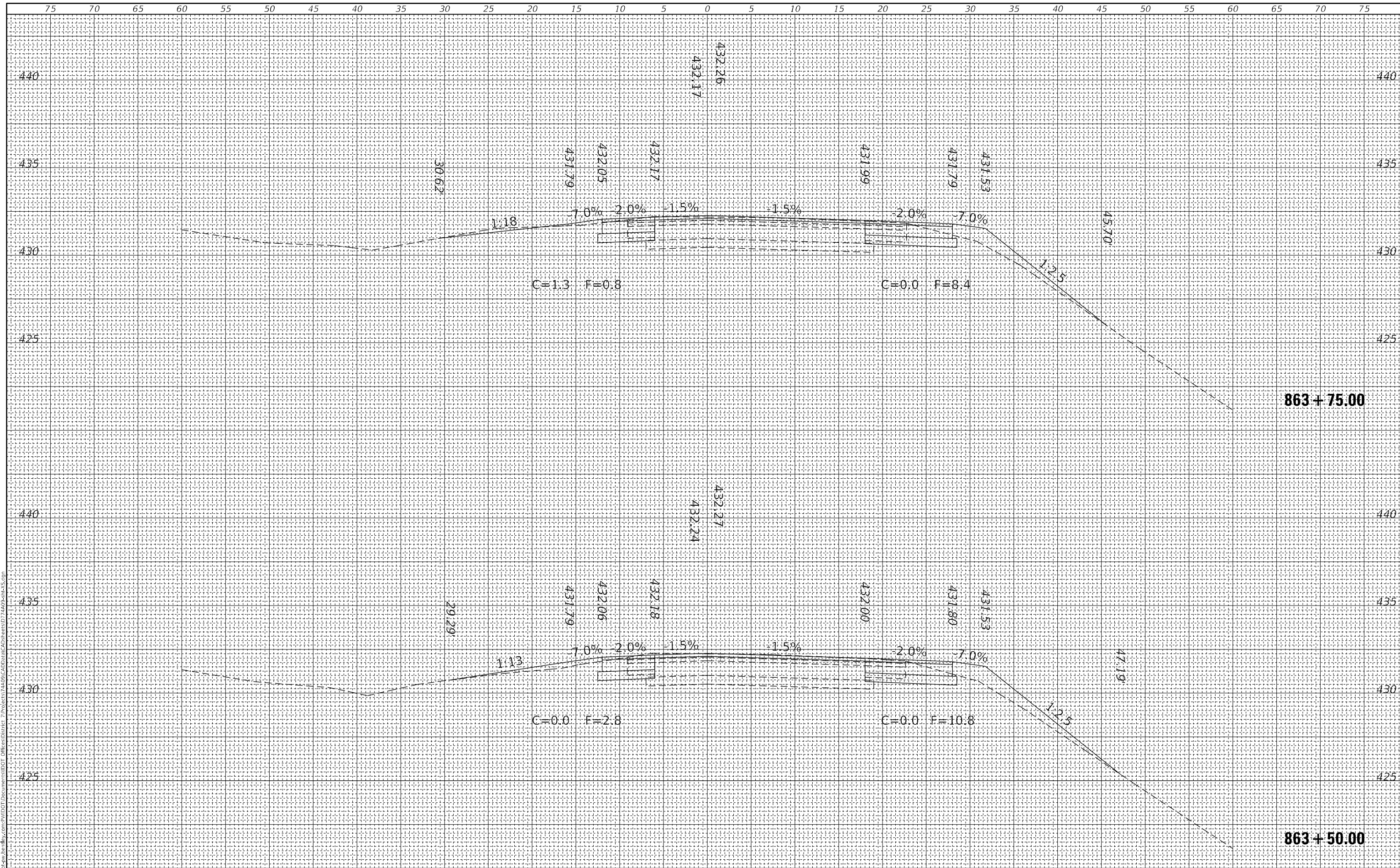
**SN 051-0022 /JS 50
 EASTBOUND CROSS SECTION**

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

F.A.P. RTE. 327	SECTION (51-24HB-1)BR	COUNTY LAWRENCE	TOTAL SHEETS 87	SHEET NO. 67
CONTRACT NO. 74A09			ILLINOIS FED. AID PROJECT	

DATE	
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SN 051-0022 /JS 50
EASTBOUND CROSS SECTION

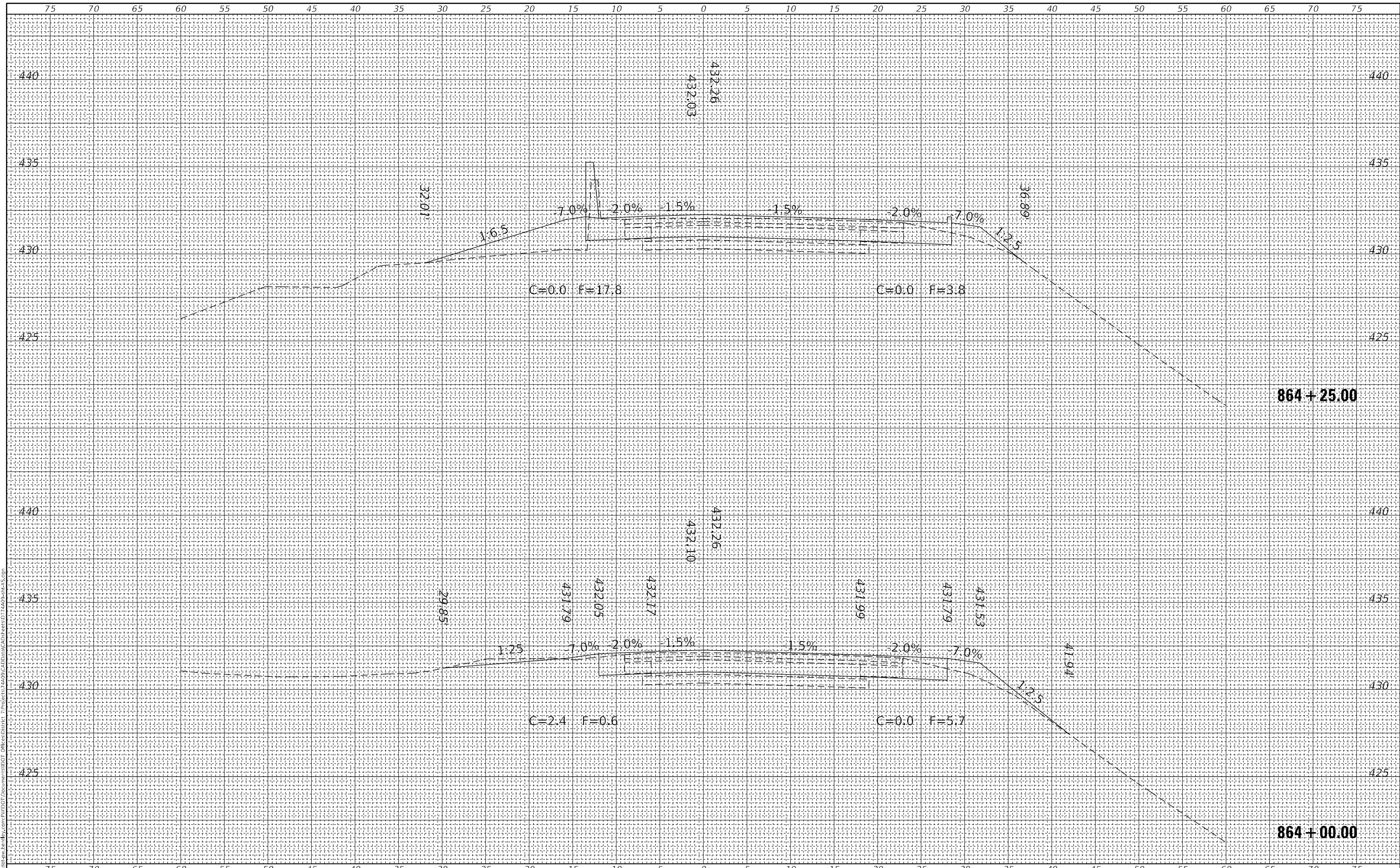
SCALE: SHEET 6 OF 25 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
327	(51-24HB-1)BR	LAWRENCE	87	68
			CONTRACT NO. 74A09	
		ILLINOIS	FED. AID PROJECT	

DATE	
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AREAS CHECKED	
FINAL SURVEY	
NOTE BOOK	
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ORIGINAL SURVEY	
NOTE BOOK	
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**SN 051-0022 /JS 50
EASTBOUND CROSS SECTION**

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
327	(51-24HB-1)BR	LAWRENCE	87	69
			CONTRACT NO. 74A09	
		ILLINOIS	FED. AID PROJECT	

DATE	BY	SURVEYED	PLOTTED
		TEMPLATE	AREAS CHECKED
		NOTE BOOK	AREAS CHECKED
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DATE	BY	SURVEYED	PLOTTED
		TEMPLATE	AREAS CHECKED
		NOTE BOOK	AREAS CHECKED
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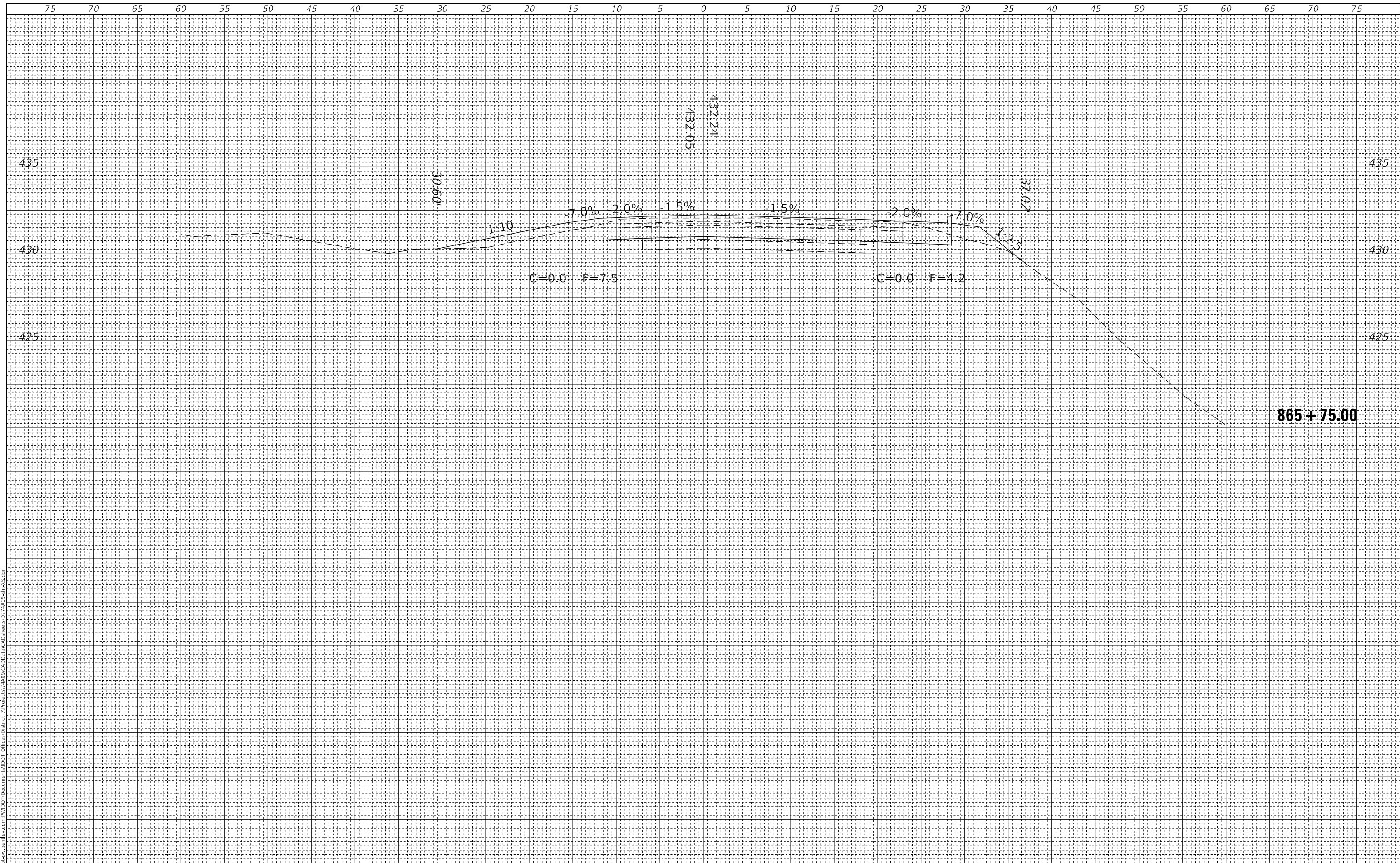
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**SN 051-0022 /JS 50
 EASTBOUND CROSS SECTION**

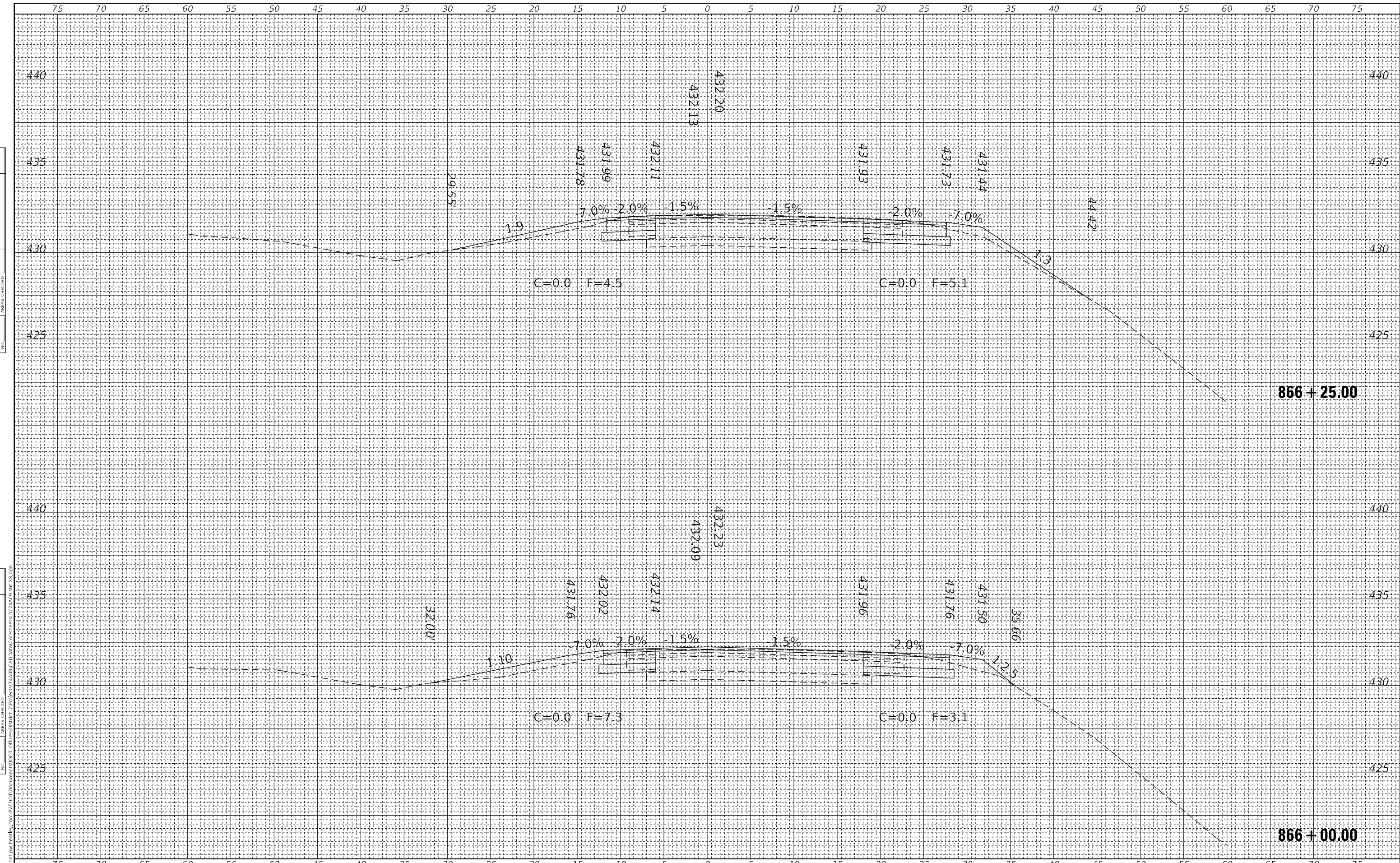
SCALE: SHEET 8 OF 25 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
327	(51-24HB-1)BR	LAWRENCE	87	70
CONTRACT NO. 74A09				
ILLINOIS FED. AID PROJECT				



DATE	
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FINAL SURVEY	
NOTE BOOK	
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	DRAWN -	REVISED -
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PLOT DATE = 10/6/2023	DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

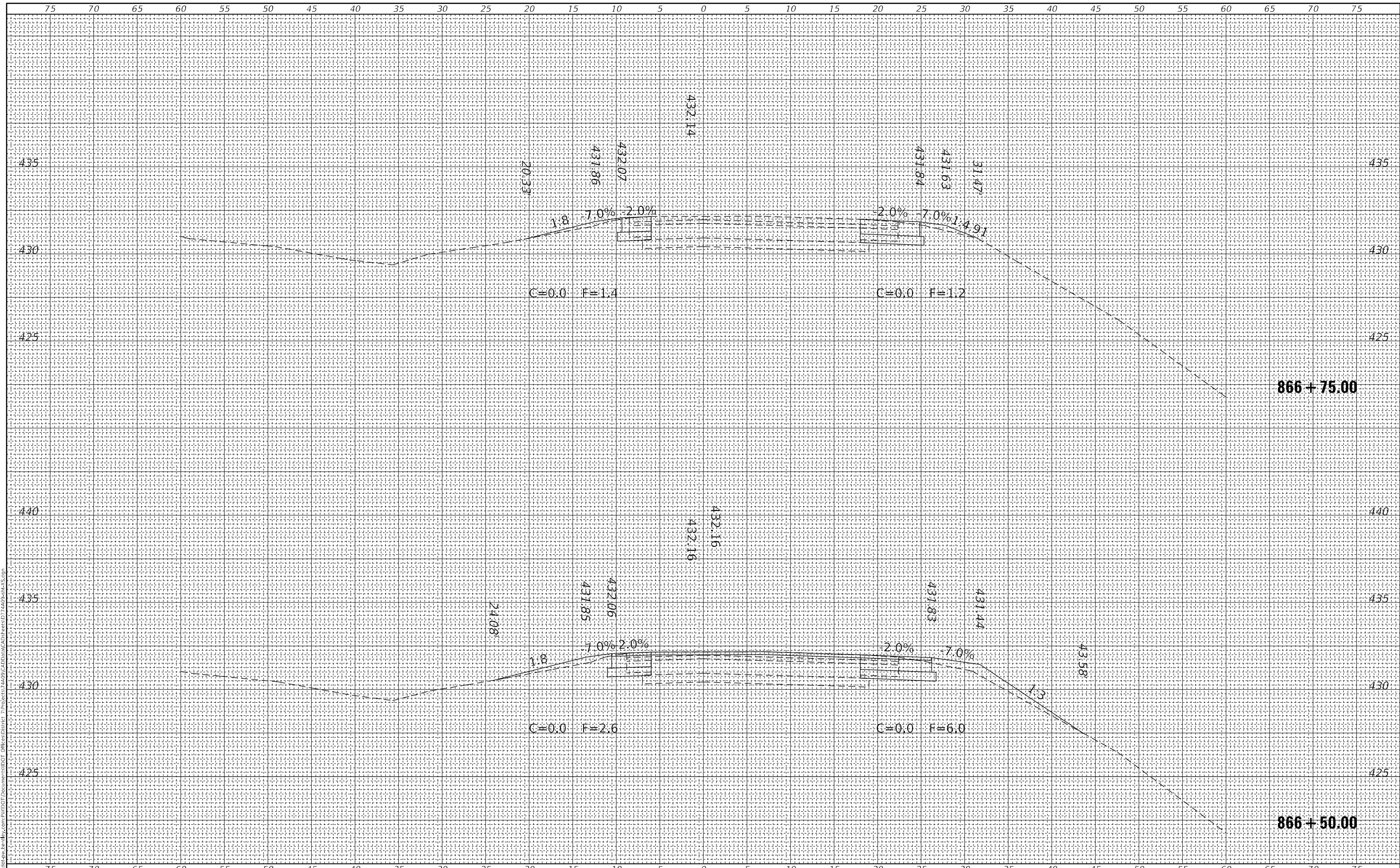
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EASTBOUND CROSS SECTION	
SCALE:	SHEET 9 OF 25 SHEETS STA. TO STA.

F.A.P. RTE. 327	SECTION (51-24HB-1)BR	COUNTY LAWRENCE	TOTAL SHEETS 87	SHEET NO. 71
CONTRACT NO. 74A09			ILLINOIS FED. AID PROJECT	

DATE	
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FINAL SURVEY NO.	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS CHECKED	

DATE	
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ORIGINAL SURVEY NO.	
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PLOT DATE = 10/6/2023	DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**SN 051-0022 /JS 50
 EASTBOUND CROSS SECTION**

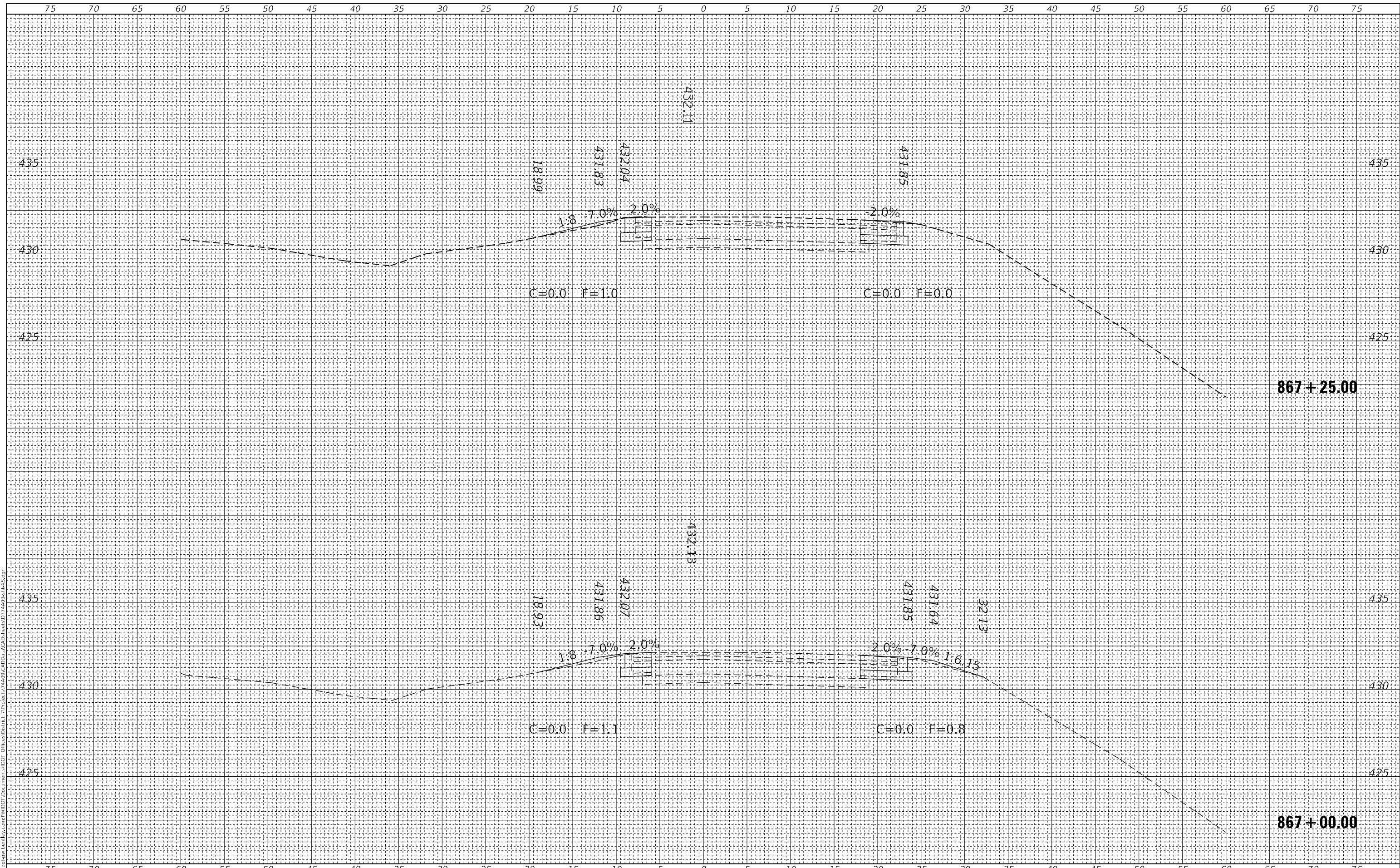
SCALE: SHEET 10 OF 25 SHEETS STA. TO STA.

F.A.P. RTE. 327	SECTION (51-24HB-1)BR	COUNTY LAWRENCE	TOTAL SHEETS 87	SHEET NO. 72
ILLINOIS FED. AID PROJECT			CONTRACT NO. 74A09	

DATE	
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**SN 051-0022 /JS 50
 EASTBOUND CROSS SECTION**

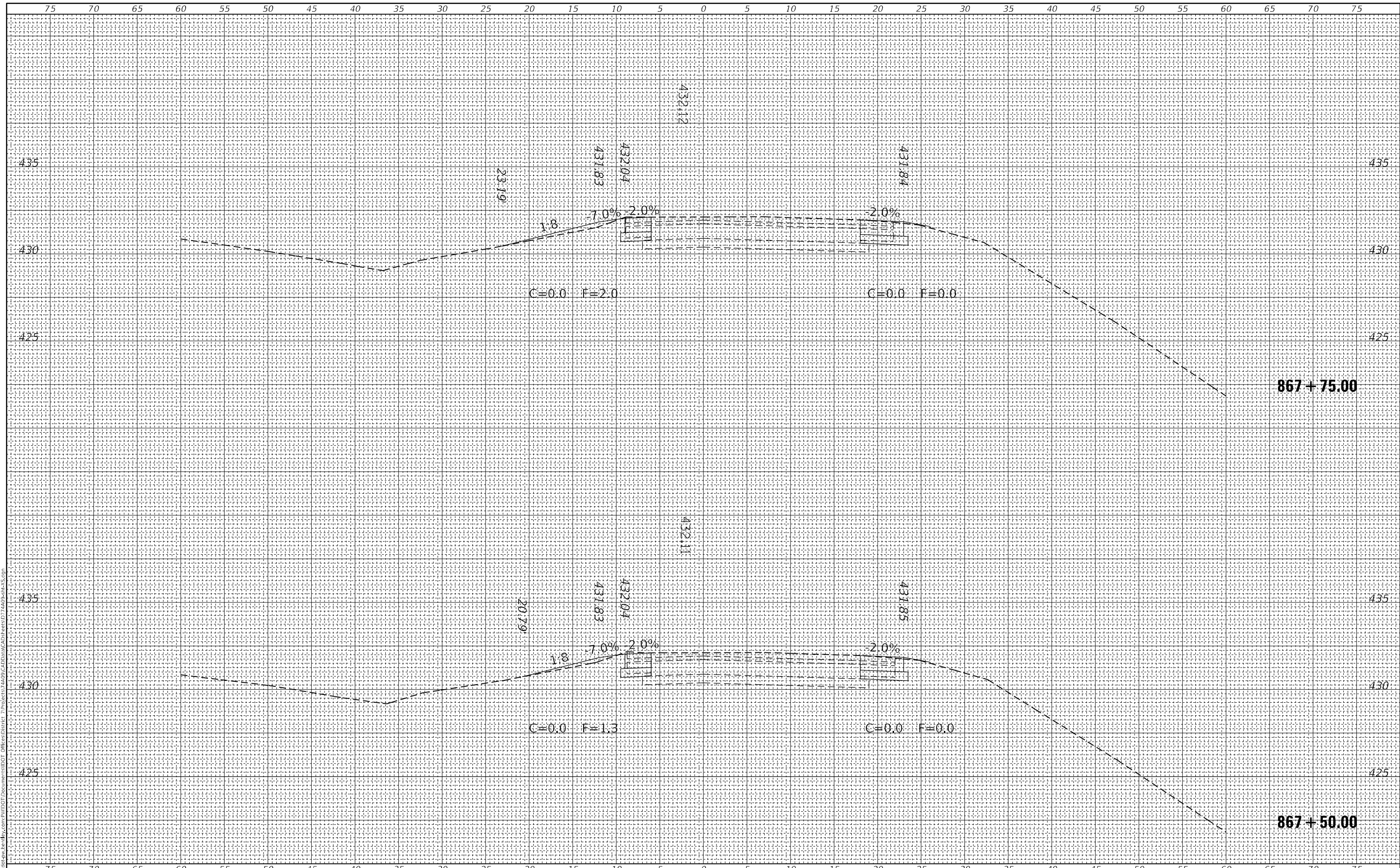
SCALE: SHEET 11 OF 25 SHEETS STA. TO STA.

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			CONTRACT NO. 74A09	
		ILLINOIS FED. AID PROJECT		

DATE	
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SURVEYED	
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FINAL SURVEY	
NOTE BOOK	
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PLOT DATE = 10/6/2023	DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

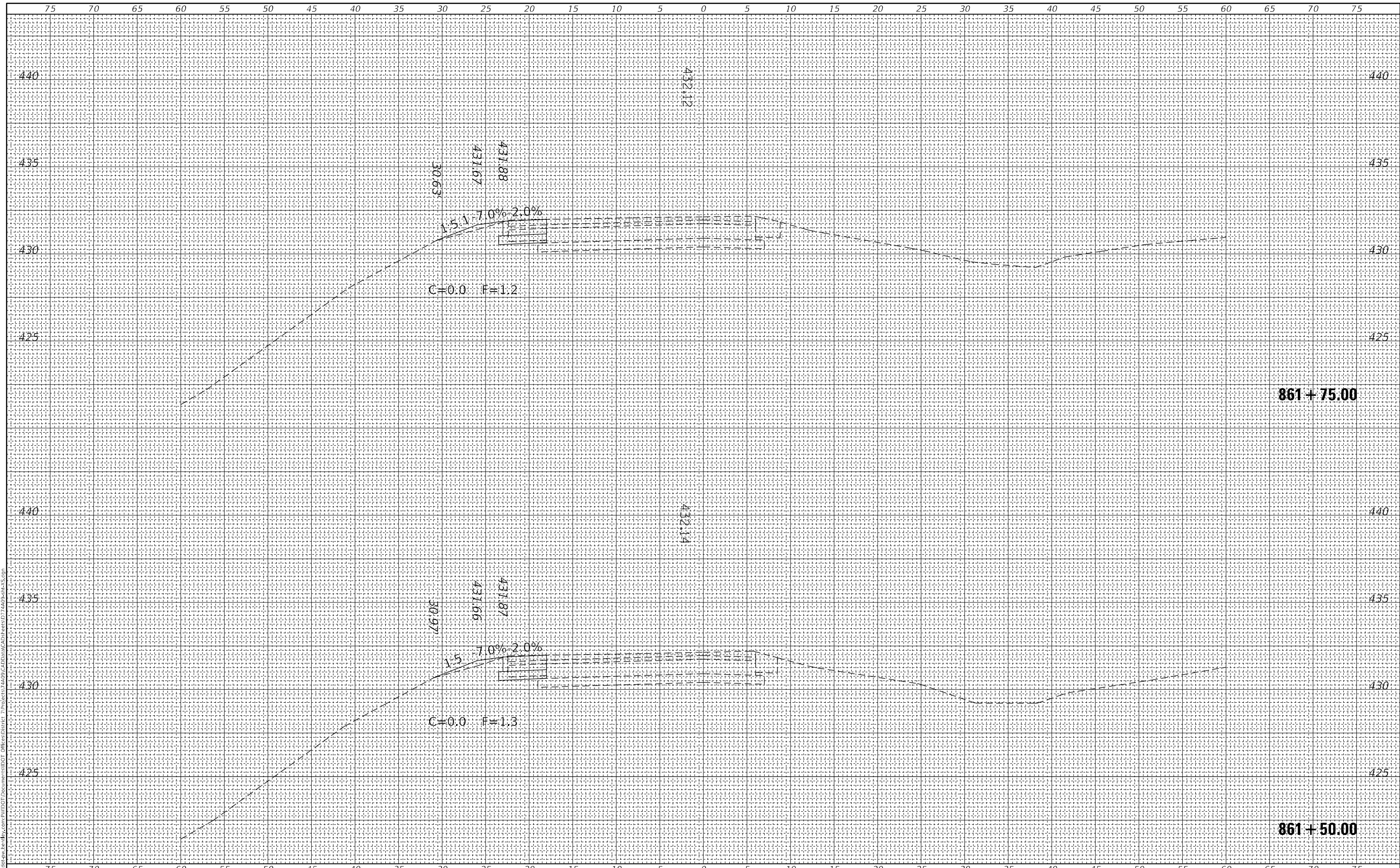
**SN 051-0022 /JS 50
 EASTBOUND CROSS SECTION**

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

F.A.P. RTE. 327	SECTION (51-24HB-1)BR	COUNTY LAWRENCE	TOTAL SHEETS 87	SHEET NO. 74
CONTRACT NO. 74A09				
ILLINOIS FED. AID PROJECT				

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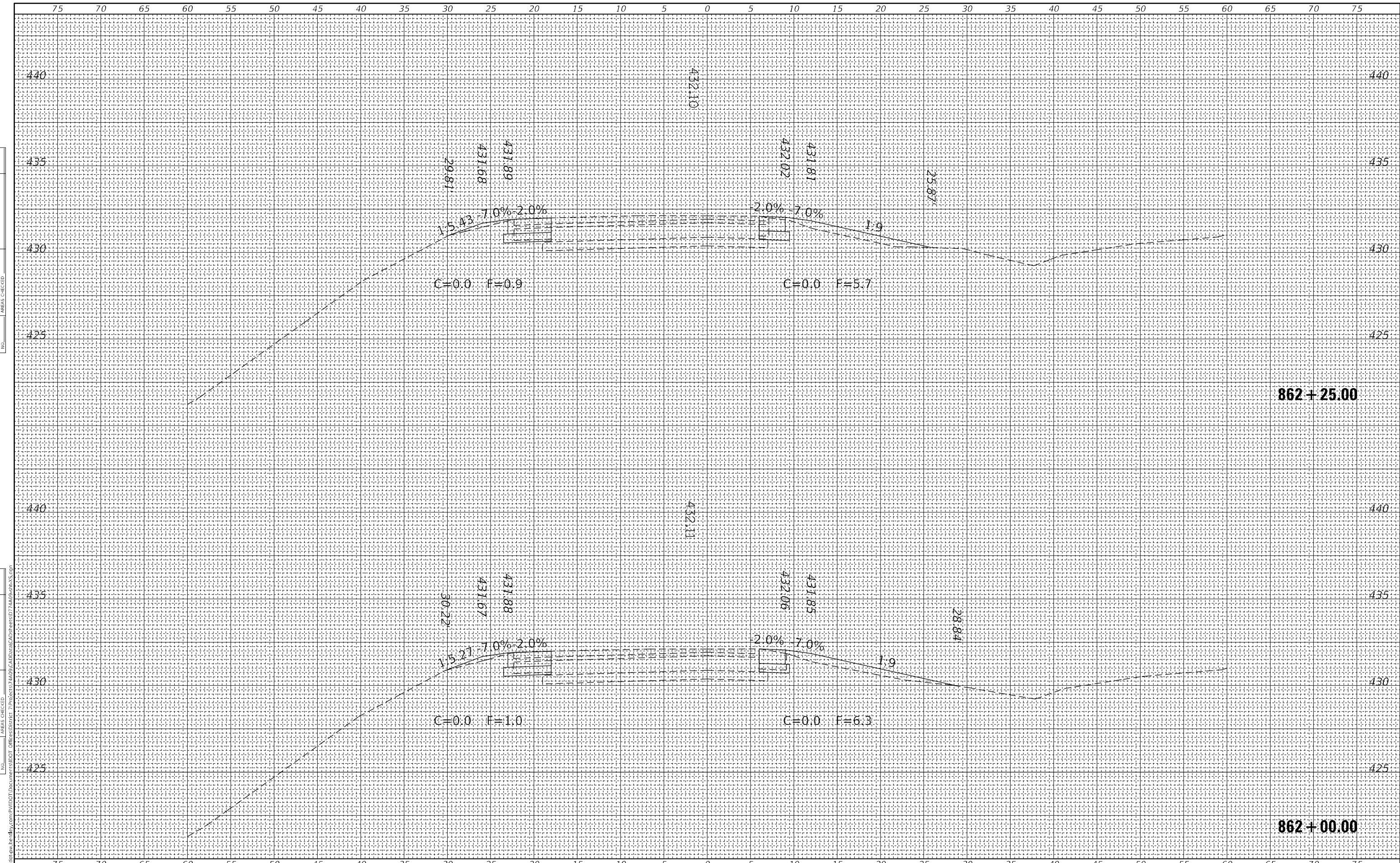
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	PLOT DATE = 10/6/2023	CHECKED -	REVISED -							ILLINOIS FED. AID PROJECT
		DATE -	REVISED -							

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PLOT DATE = 10/6/2023	DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**SN 051-0023 /JS 50
 WESTBOUND CROSS SECTIONS**

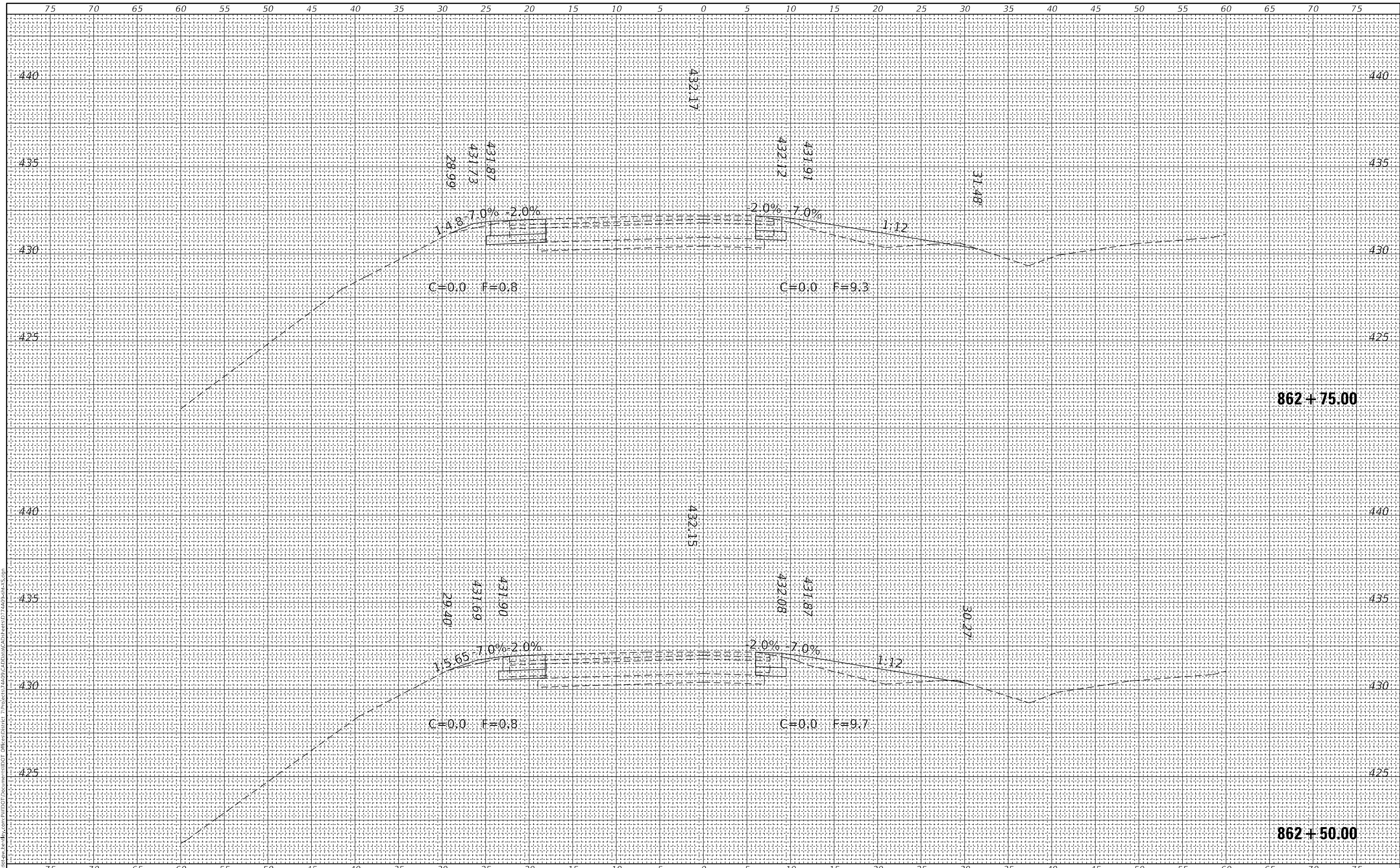
SCALE: SHEET 14 OF 25 SHEETS STA. TO STA.

F.A.P. RTE. 327	SECTION (51-24HB-1)BR	COUNTY LAWRENCE	TOTAL SHEETS 87	SHEET NO. 76
ILLINOIS FED. AID PROJECT			CONTRACT NO. 74A09	

DATE	
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FINAL SURVEY	
NOTE BOOK	
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

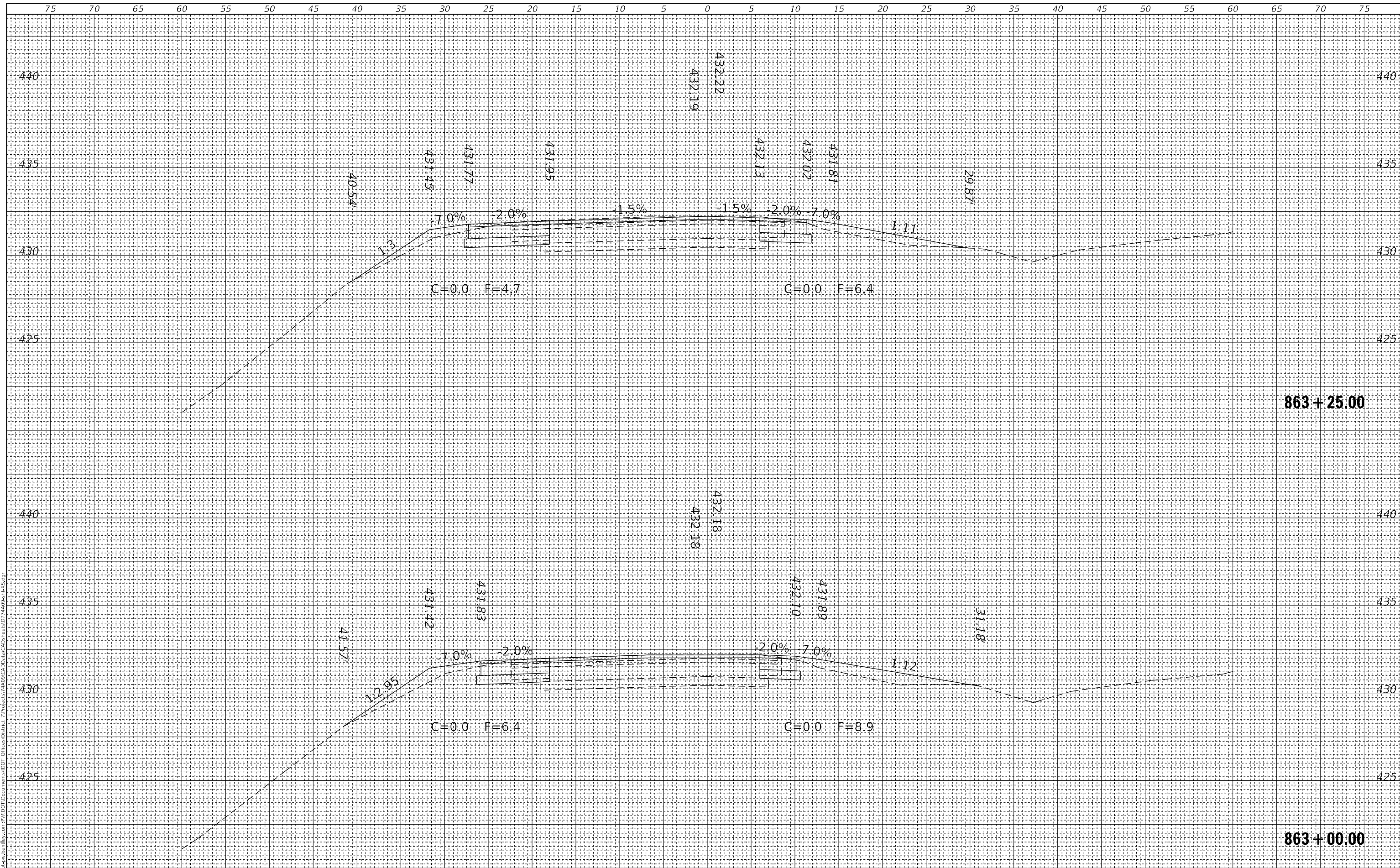
**SN 051-0023 /JS 50
WESTBOUND CROSS SECTIONS**

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
327	(51-24HB-1)BR	LAWRENCE	87	77
CONTRACT NO. 74A09				
ILLINOIS FED. AID PROJECT				

DATE	
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FINAL SURVEY	
NOTE BOOK	
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AREAS CHECKED	
ORIGINAL SURVEY	
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

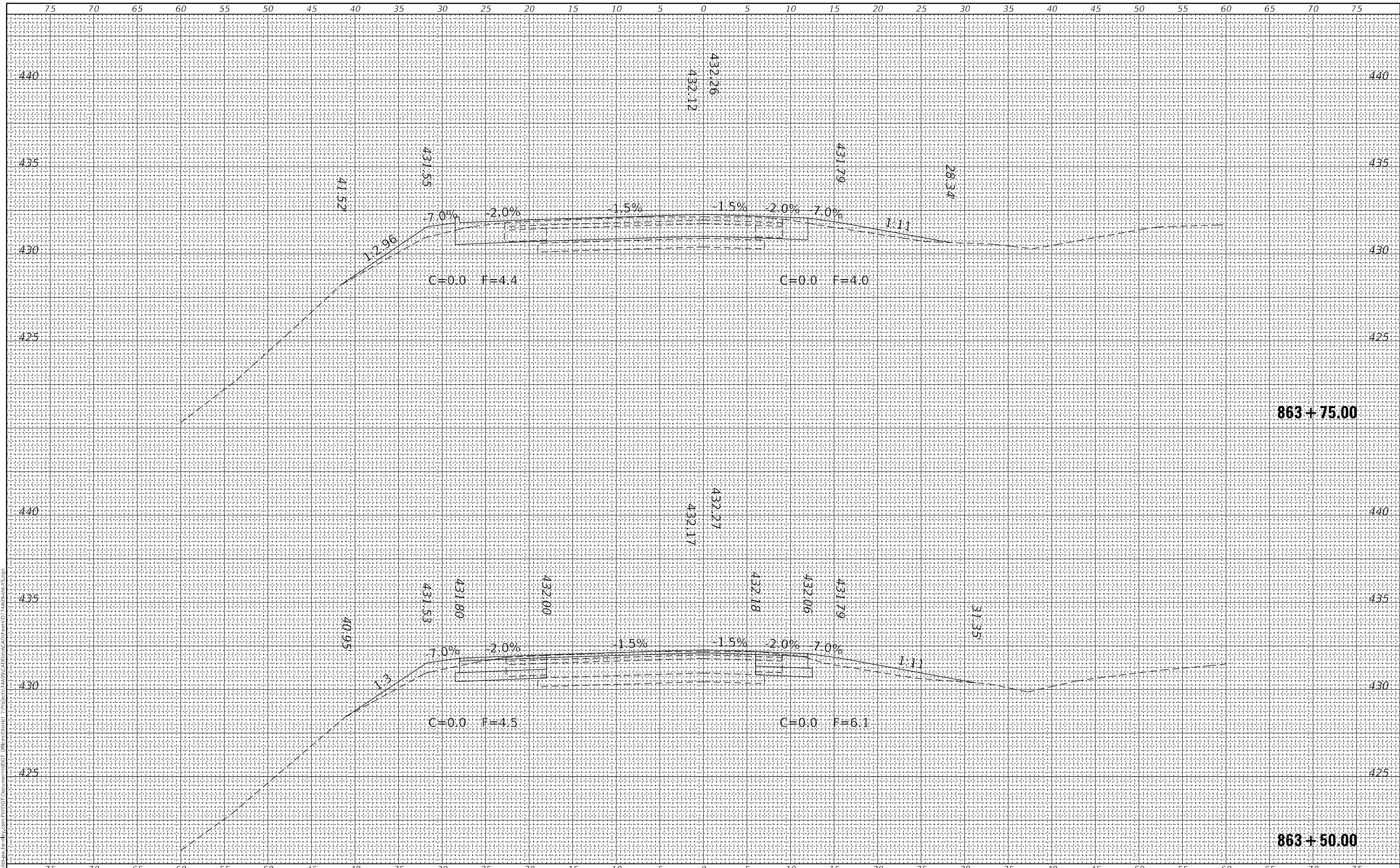
SN 051-0023 /JS 50
WESTBOUND CROSS SECTIONS

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
327	(51-24HB-1)BR	LAWRENCE	87	78
			CONTRACT NO. 74A09	
		ILLINOIS	FED. AID PROJECT	

DATE	
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FINAL SURVEY NO.	
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ORIGINAL SURVEY NO.	
SURVEYED PLOTTED AREAS CHECKED	
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**SN 051-0023 /US 50
WESTBOUND CROSS SECTIONS**

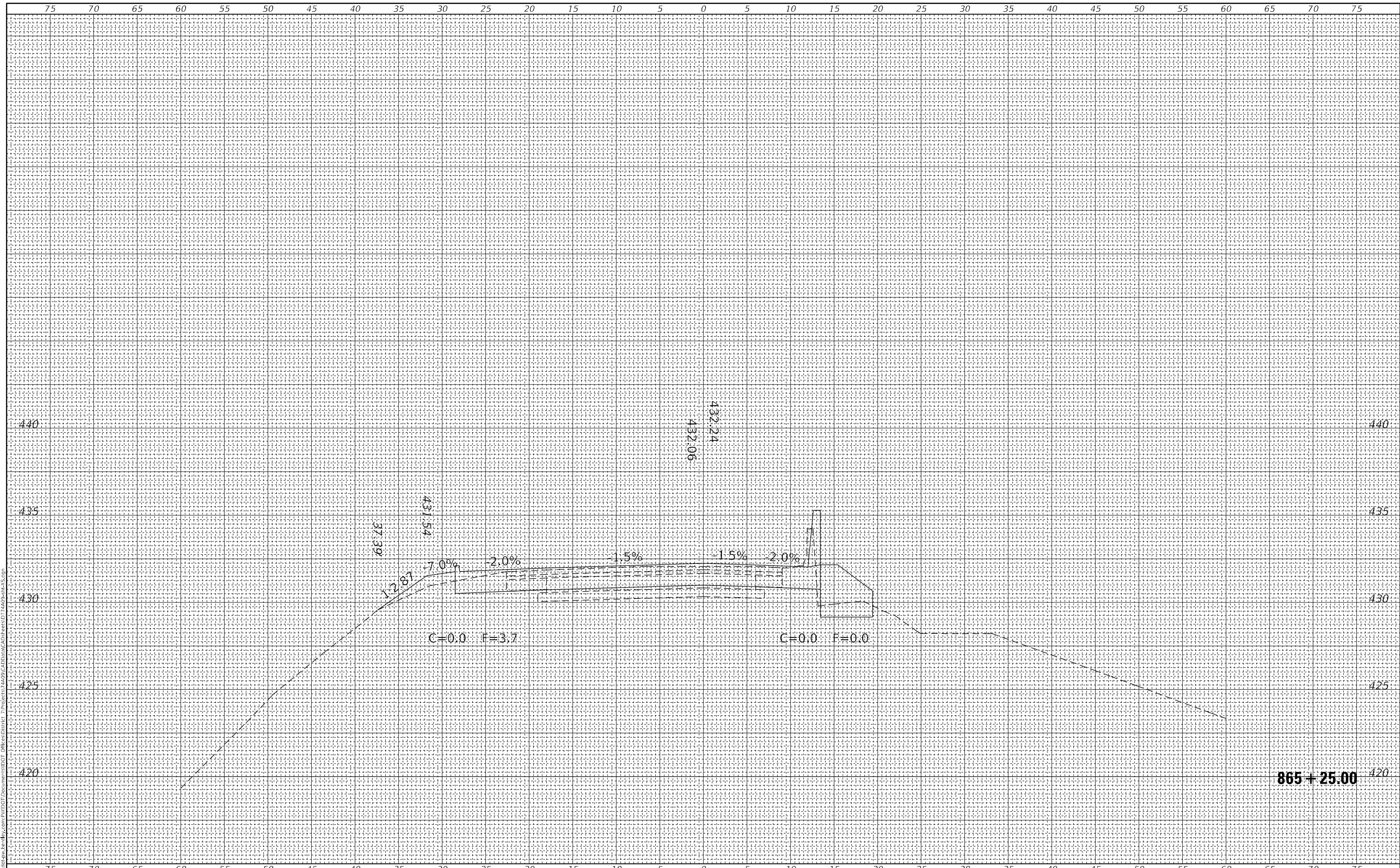
SCALE: SHEET 17 OF 25 SHEETS STA. TO STA.

F.A.P. RTE. 327	SECTION (51-24HB-1)BR	COUNTY LAWRENCE	TOTAL SHEETS 87	SHEET NO. 79
			CONTRACT NO. 74A09	
		ILLINOIS	FED. AID PROJECT	

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

ORIGINAL SURVEY NO.	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
AREAS CHECKED	TEMPLATE		
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PLOT DATE = 10/6/2023	DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

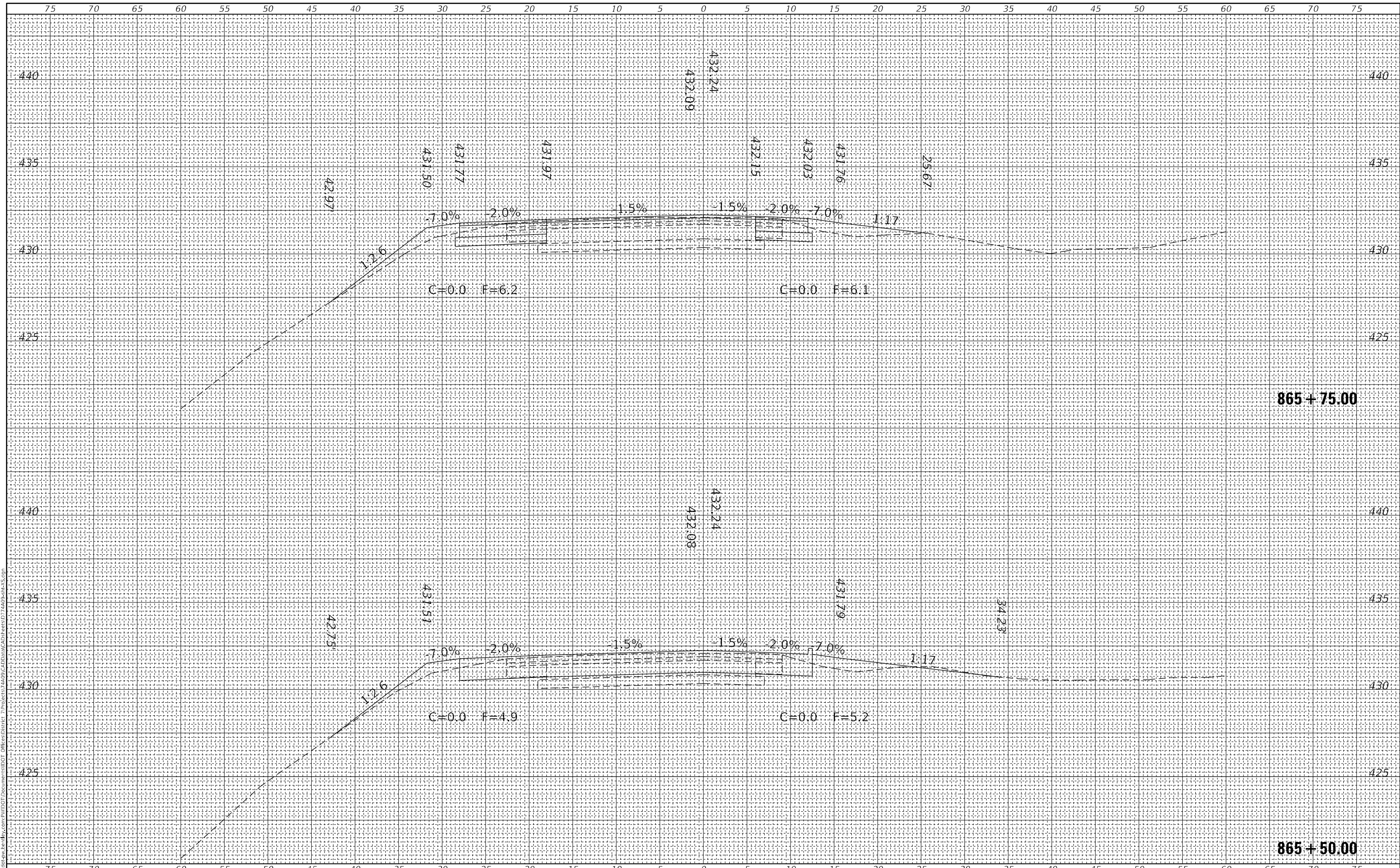
**SN 051-0023 /US 50
 WESTBOUND CROSS SECTIONS**

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

F.A.P. RTE. 327	SECTION (51-24HB-1)BR	COUNTY LAWRENCE	TOTAL SHEETS 87	SHEET NO. 80
			CONTRACT NO. 74A09	
		ILLINOIS	FED. AID PROJECT	

DATE	
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FINAL SURVEY	
NOTE BOOK	
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ORIGINAL SURVEY	
NOTE BOOK	
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

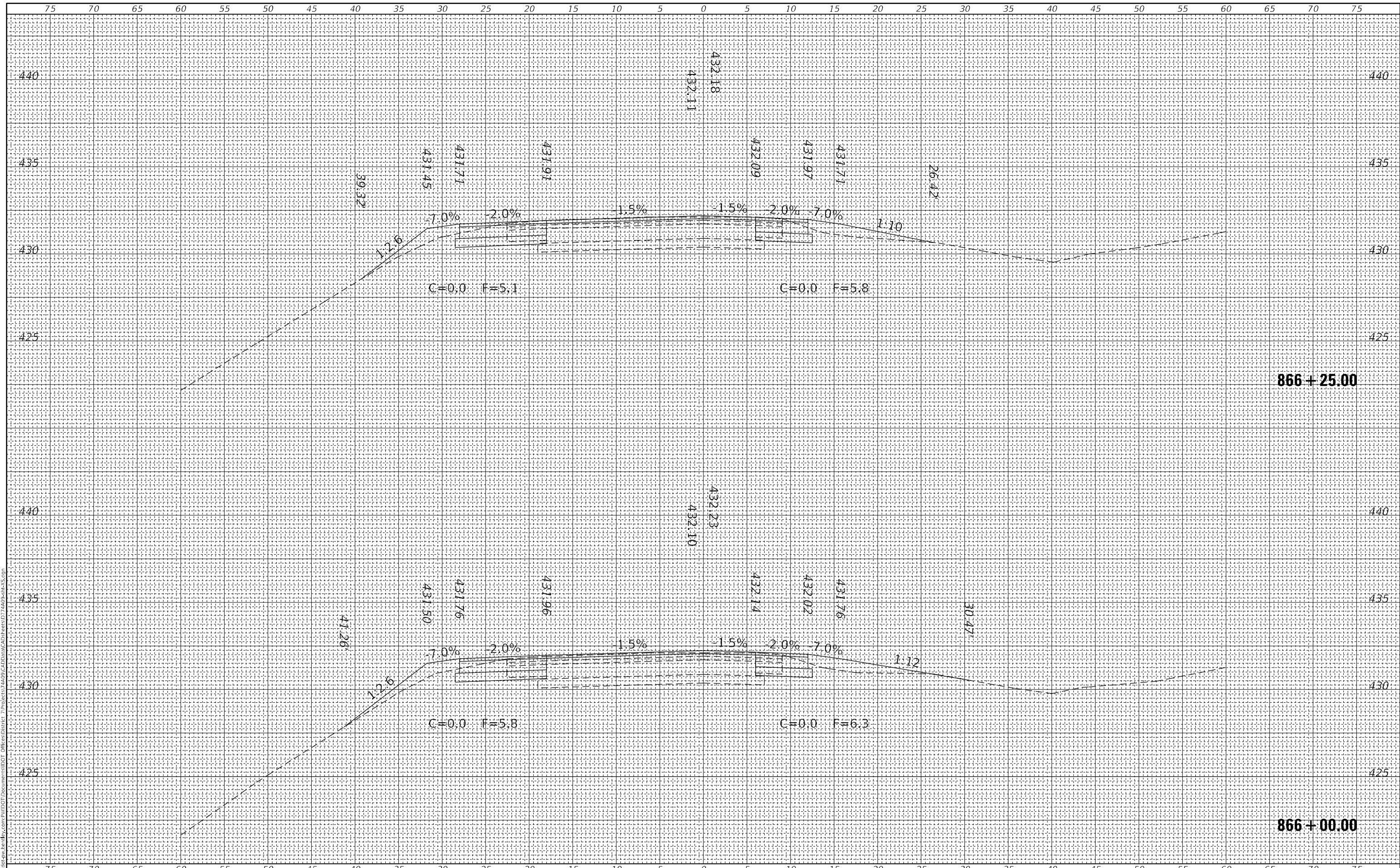
SN 051-0023 /JS 50
WESTBOUND CROSS SECTIONS

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
327	(51-24HB-1)BR	LAWRENCE	87	81
			CONTRACT NO. 74A09	
		ILLINOIS	FED. AID PROJECT	

DATE	
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SURVEYED	
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FINAL SURVEY	
NOTE BOOK	
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ORIGINAL SURVEY	
NOTE BOOK	
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PLOT DATE = 10/6/2023	DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

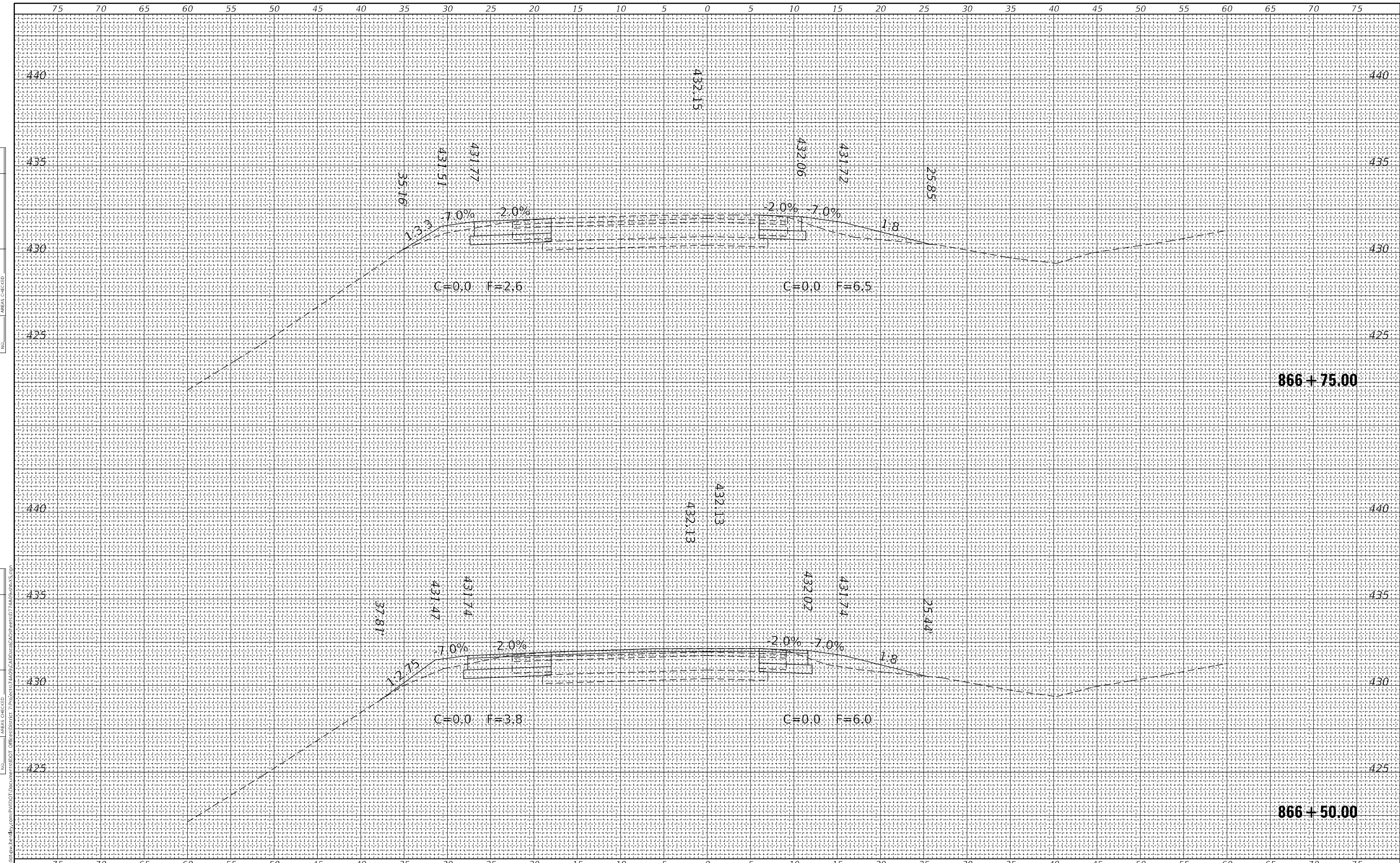
**SN 051-0023 /JS 50
 WESTBOUND CROSS SECTIONS**

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
327	(51-24HB-1)BR	LAWRENCE	87	82
			CONTRACT NO. 74A09	
		ILLINOIS	FED. AID PROJECT	

DATE	
BY	
FINAL SURVEY NO.	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS CHECKED	

DATE	
BY	
ORIGINAL SURVEY NO.	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS CHECKED	



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PLLOT DATE	= 10/6/2023
DATE	-

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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

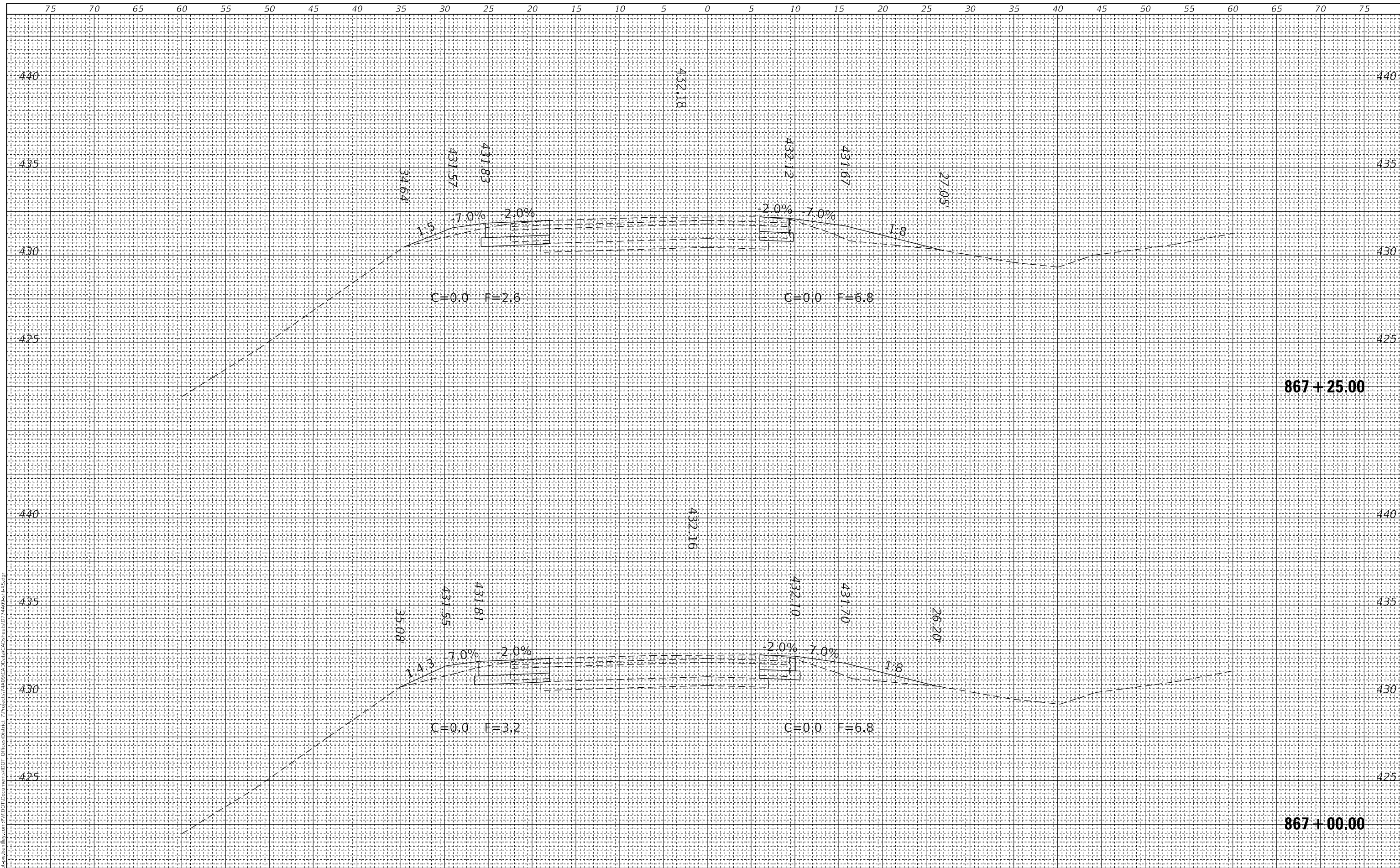
**SN 051-0023 /JS 50
 WESTBOUND CROSS SECTIONS**

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
327	(51-24HB-1)BR	LAWRENCE	87	83
CONTRACT NO. 74A09				
ILLINOIS FED. AID PROJECT				

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

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



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PLOT DATE = 10/6/2023	DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

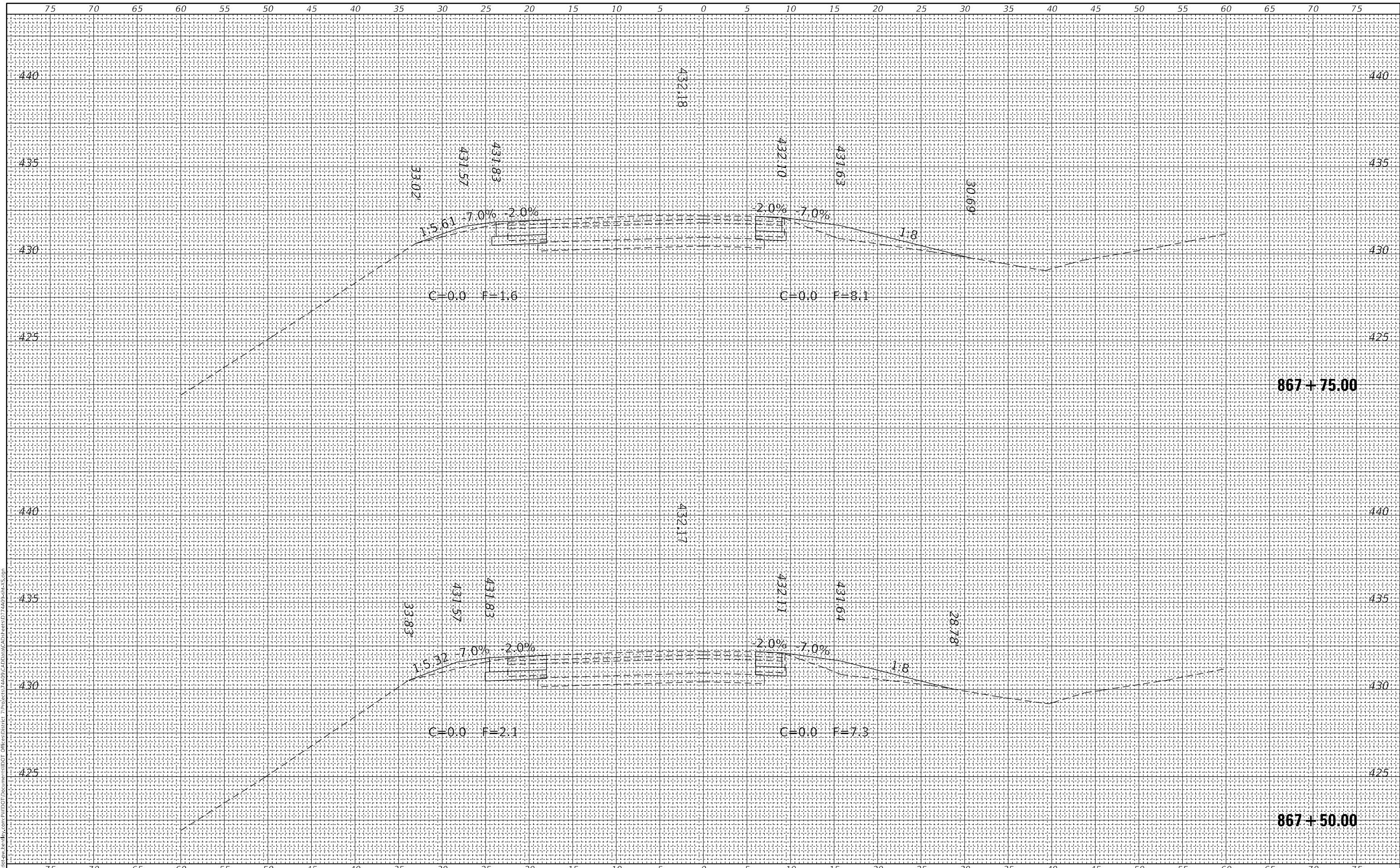
**SN 051-0023 /JS 50
 WESTBOUND CROSS SECTIONS**

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
327	(51-24HB-1)BR	LAWRENCE	87	84
CONTRACT NO. 74A09				
ILLINOIS FED. AID PROJECT				

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

DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
ORIGINAL SURVEY	
NOTE BOOK	
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PLOT DATE = 10/6/2023	DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**SN 051-0023 /JS 50
 WESTBOUND CROSS SECTIONS**

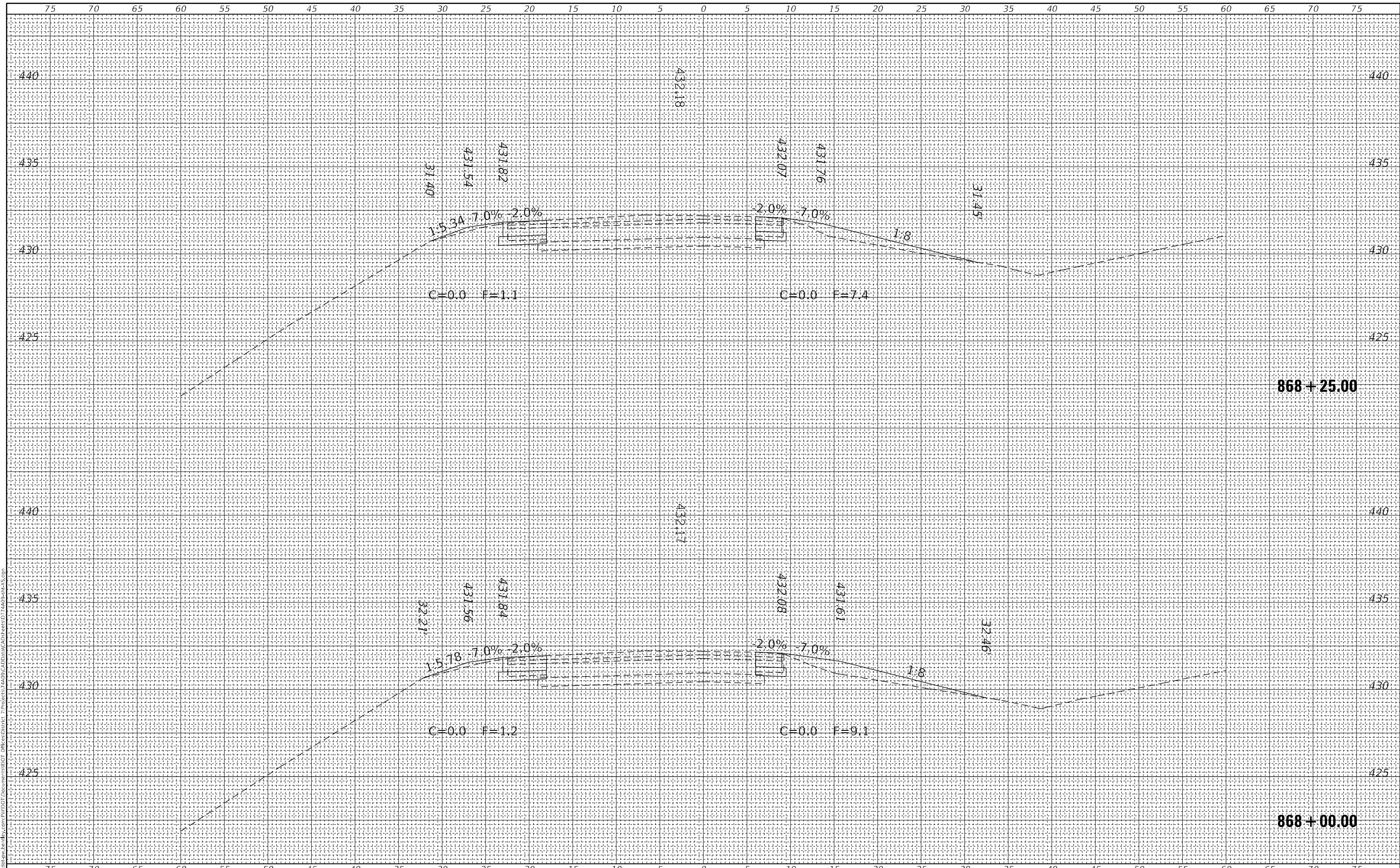
SCALE: SHEET 23 OF 25 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
327	(51-24HB-1)BR	LAWRENCE	87	85
CONTRACT NO. 74A09				
ILLINOIS FED. AID PROJECT				

DATE	
BY	
FINAL SURVEY NO.	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS CHECKED	

DATE	
BY	
ORIGINAL SURVEY NO.	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS CHECKED	

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PLOT DATE = 10/6/2023	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

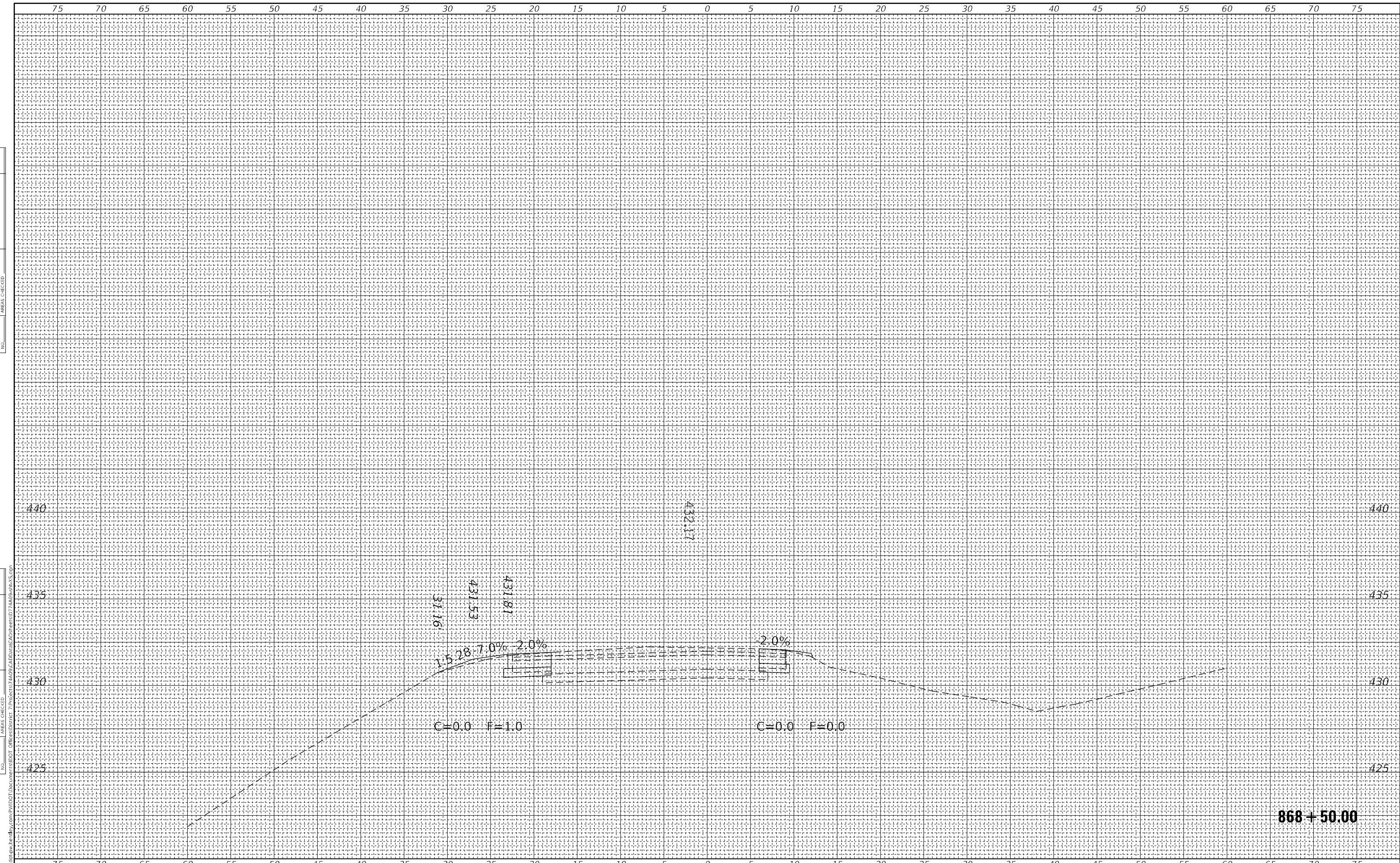
**SN 051-0023 /JS 50
WESTBOUND CROSS SECTIONS**

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
327	(51-24HB-1)BR	LAWRENCE	87	86
CONTRACT NO. 74A09				
ILLINOIS FED. AID PROJECT				

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

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



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FILE NAME: D:\Illinois\paw\kennedy\com\p\WIDOT\Documents\DOT Office\Brenter - Project\7409\CAD\Draw\CAD\Sheet\077409-51-24HB-1	PLOT SCALE = 10,0000 * / in.	DRAWN -	REVISED -		SCALE:	SHEET 25	OF 25	SHEETS	STA.	TO STA.	CONTRACT NO. 74A09	
	PLOT DATE = 10/6/2023	CHECKED -	REVISED -		ILLINOIS FED. AID PROJECT							
		DATE -	REVISED -									