04-25-2025 LETTING ITEM 088

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	90[14PP;(15-1)PP-1]	TAZEWELL	31	1
	ILLINOIS	CONTRACT NO. 68H82		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED HIGHWAY PLANS

FAI 74 : I-74
SECTION: 90[14PP;(15-1)PP-1]
PROJECT: PATCHING AND PAVEMENT JACKING
TAZEWELL COUNTY

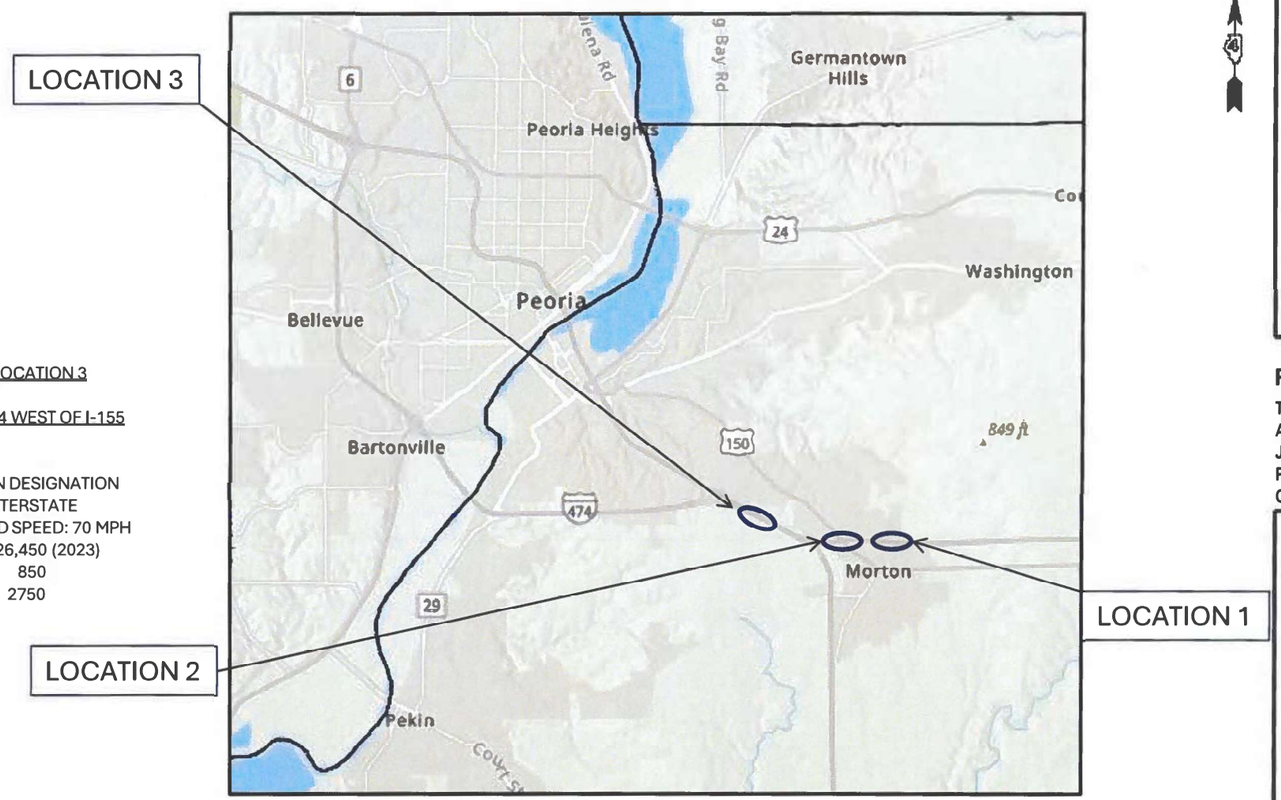
INDEX OF SHEETS

HIGHWAY STANDARDS

000001-08
001001-02
001006
420001-10
420701-03
421001-03
442001-04
442101-09
701400-12
701401-13
701406-13
701411-09
701428-01
701446-11
701456-05
701901-10
780001-05

LOCATION 1	LOCATION 2	LOCATION 3
WB I-74 TO MORTON AVE OFF-RAMP	WB I-74 WEST OF US 150	EB I-74 WEST OF I-155
DESIGN DESIGNATION	DESIGN DESIGNATION	DESIGN DESIGNATION
I-74: INTERSTATE	I-74: INTERSTATE	I-74: INTERSTATE
POSTED SPEED: N/A	POSTED SPEED: 70 MPH	POSTED SPEED: 70 MPH
AADT: 2250 (2018)	AADT: 26,400 (2021)	AADT: 26,450 (2023)
SU:	SU: 1250	SU: 850
MU:	MU: 3100	MU: 2750

C-94-001-24



D-94-001-24

PROJECT DESCRIPTION:

THIS PROJECT CONSISTS OF FULL DEPTH PCC PATCHING AND SHOULDER REPLACEMENT AT LOCATION 1, PAVEMENT JACKING AT LOCATION 2, FULL DEPTH CRC PAVEMENT PATCHING AT LOCATION 3, AND ANY RELATED COLLATERAL WORK

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBMITTED Feb 06 2025
Randall A Barnett RSD
REGIONAL ENGINEER

March 21 2025
ENGINEER OF DESIGN AND ENVIRONMENT

March 21 2025
DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

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

PROJECT ENGINEER: BEN TELLEFSON (309) 671-3333
PROJECT MANAGER: ERIC PRICHARD (309) 671-3333

CATALOG NO. 036448-00D
CONTRACT NO. 68H82

LOCATION 1	LOCATION 2	LOCATION 3
GROSS LENGTH: 4735 FT = 0.90 MILE	GROSS LENGTH: 8750 FT = 1.66 MILE	GROSS LENGTH: 50 FEET
NET LENGTH: 1800 FT = 0.34 MILE	NET LENGTH: 315 FT = 0.06 MILE	NET LENGTH: 50 FEET

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REV. 3/18/25

GENERAL NOTES:

COMMITMENTS

Commitments are not to be altered without the written approval of all parties to which the commitment was made.

There are no commitments with this project.

ENVIRONMENTAL REVIEWS

Prior to the use of any proposed borrow areas, use areas (temporary access roads, detours, run–arounds, etc.) and/or waste areas, the Contractor shall file the required environmental resource request surveys according to Section 107.22 of the Standard Specifications. These surveys are required in order for the Department to conduct cultural and biological resource surveys for the proposed site.

The required environmental resource documentation shall include the following:

* BDE Form 2289 (Borrow Site Review)
* BDE Form 2290 (Waste/Use Area Review)
* A location map showing the size limits and location of the use area
* Color photographs depicting the use area
* Borrow Area Entry Agreement form – D4 PI0101

Prior to any waste materials being removed from the construction site the required environmental resource surveys shall be obtained and filed by the Contractor. Excess waste products removed from the construction site shall be disposed of as required in Section 202.03 of the Standard Specifications.

Any protruding metal bars shall be removed prior to the disposal of broken concrete at approved disposal sites.

Please note that a minimum of four weeks shall be allowed for the District to obtain the required waste site environmental clearances and six weeks for the required borrow site environmental clearances.

SUMMARY OF QUANTITIES

CODE	ITEM DESCRIPTION	UNIT	TOTAL QTY.	TAZEWELL COUNTY LOCATIONS 1&3 100% STATE CODE 0006 URBAN	TAZEWELL COUNTY LOCATION 2 100% STATE CODE 0013 URBAN
44004250	PAVED SHOULDER REMOVAL	SQ YD	236.0	236.0	
44200050	WELDED WIRE REINFORCEMENT	SQ YD	274.0	274.0	
44200571	CLASS A PATCHES, TYPE IV, 11 INCH	SQ YD	34.0	34.0	
44200966	CLASS B PATCHES, TYPE I, 10 INCH	SQ YD	33.0	33.0	
44200970	CLASS B PATCHES, TYPE II, 10 INCH	SQ YD	229.0	229.0	
44200974	CLASS B PATCHES, TYPE III, 10 INCH	SQ YD	175.0	175.0	
44200976	CLASS B PATCHES, TYPE IV, 10 INCH	SQ YD	73.0	73.0	
44201294	CLASS B PATCH - EXPANSION JOINT	FOOT	22.0	22.0	
44201299	DOWEL BARS 1 1/2"	EACH	734.0	734.0	
44213000	PATCHING REINFORCEMENT	SQ YD	34.0	34.0	
44213200	SAW CUTS	FOOT	3128.0	3128.0	
44213204	TIE BARS 3/4"	EACH	54.0	54.0	
48300500	PORTLAND CEMENT CONCRETE SHOULDERS 10"	SQ YD	236.0	236.0	
67100100	MOBILIZATION	L SUM	1.0	0.5	0.5
* 70103815	TRAFFIC CONTROL SURVEILLANCE	CAL DA	20.0	20.0	
70107025	CHANGEABLE MESSAGE SIGN	CAL DA	35.0	14.0	21.0
* 78009004	MODIFIED URETHANE PAVEMENT MARKING - LINE 4"	FOOT	2500.0	2500.0	
X0326223	FOAM, EXPANDING POLYURETHANE, HIGH-DENSITY	POUND	2520.0		2520.0
X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1.0	0.5	0.5
Z0013798	CONSTRUCTION LAYOUT	L SUM	1.0		1.0
Ø Z0076604	TRAINEES - TRAINING PROGRAM GRADUATE	HOUR	500	500	

* SPECIALTY ITEM Ø 0042

USER NAME =	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
	DRAWN -	REVISED -	
PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -	
PLOT DATE = 3/20/2023	DATE -	REVISED -	

SUMMARY OF QUANTITIES

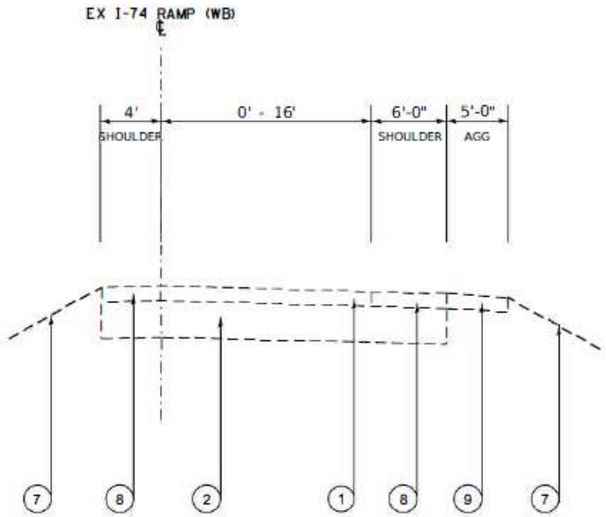
SCALE: NONE | SHEET 1 OF 1 SHEETS | STA. N/A TO STA. N/A

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	90[14PP;(15-1)PP-1]	TAZEWELL	31	3

CONTRACT NO. 68H82

ILLINOIS

REV. 3/6/25



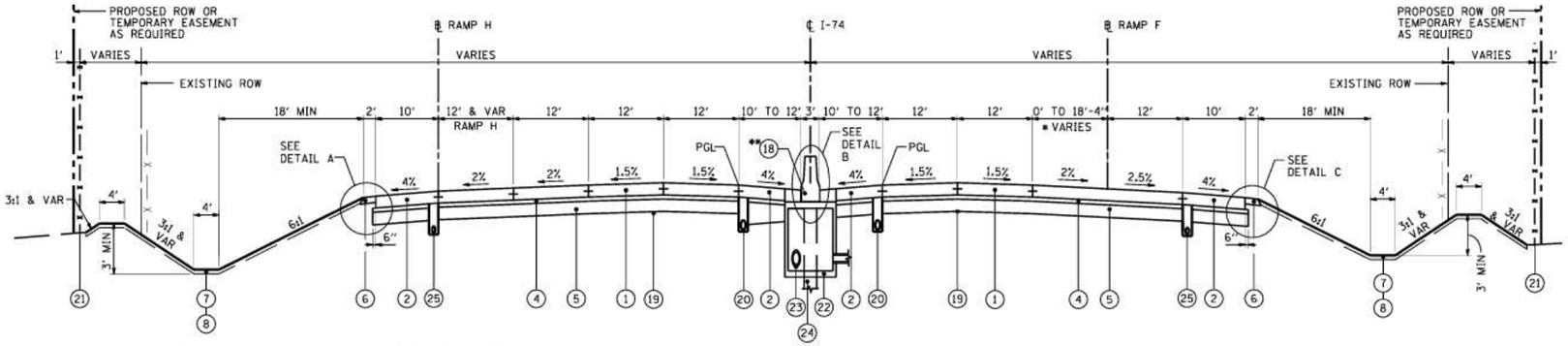
WB I-74 EXIT TO MORTON AVE

I-74 TYPICAL LOCATION 1

WITH TURNING LANES
STA. 0+00 TO STA. 21+84

LEGEND

1. EX PCC PAVEMENT 10"
2. EX GRANULAR SUB-BASE
3. EX SUBGRADE 1
4. EX SUBGRADE 2
5. EX PIPE UNDERDRAIN
6. EX GUTTER
7. EX SIDE SLOPE
8. EX PCC SHOULDER
9. EX AGG SHOULDER
10. EX CONCRETE BARRIER
11. EX CRC PAVEMENT 12"



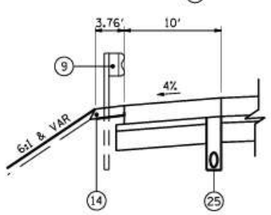
PROPOSED TYPICAL SECTION (3)

I-74 LOCATION 3

STA 489+25.32 TO STA 523+04.86

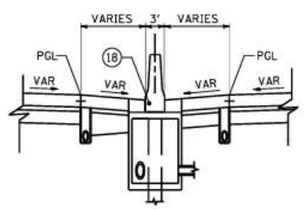
* DEVELOPMENT OF RAMP F CONTINUES TO STA 524+76.25

** FROM STA 490+00.00 TO STA 517+80.78
BASE CONSTRUCTED SEPARATELY, SEE DETAIL.



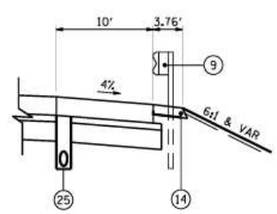
DETAIL A

STA 489+25.09 TO STA 496+67.77
STA 508+06.50 TO STA 510+11.79
STA 541+16.88 TO STA 543+63.51



DETAIL B

STA 521+00.00 TO STA 561+00



PAVEMENT DESIGN I-74

STRUCTURAL DESIGN TRAFFIC: Year 2024

PV = 47,366 SU = 1,361 SU = 6,594

ROAD CLASSIFICATION CLASS I

PERCENT OF STRUCTURAL DESIGN TRAFFIC IN DESIGN LANE:

P = 20% S = 40% M = 40%

TRAFFIC FACTOR: Actual TF = 38.33 AC Type = N/A

Minimum TF = 8.93

PROPOSED LEGEND:

1. CONTINUOUSLY REINFORCED PORTLAND CEMENT CONCRETE PAVEMENT 11"
2. PORTLAND CEMENT CONCRETE SHOULDERS 11"
3. CONCRETE BARRIER, DOUBLE FACE, 42 INCH HEIGHT
4. STABILIZED SUBBASE - HOT-MIX ASPHALT, 4"
5. AGGREGATE SUBGRADE IMPROVEMENT 12"
6. AGGREGATE SHOULDERS, TYPE B 6"
7. TOPSOIL EXCAVATION AND PLACEMENT, 4"
8. SEEDING, CLASS _ (SEE EROSION AND SEDIMENT CONTROL PLANS)
9. STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS
10. PORTLAND CEMENT CONCRETE PAVEMENT 10 1/4" (JOINTED)
11. PORTLAND CEMENT CONCRETE PAVEMENT 10" (JOINTED)
12. PORTLAND CEMENT CONCRETE SHOULDERS 10 1/4"
13. PORTLAND CEMENT CONCRETE SHOULDERS 10"
14. GUARDRAIL AGGREGATE EROSION CONTROL
15. CONCRETE BARRIER, SINGLE FACE, 42 INCH HEIGHT
16. COMBINATION CONCRETE CURB & GUTTER, TYPE B-6.24
17. NOT USED
18. CONCRETE BARRIER, DOUBLE FACE, 48 INCH HEIGHT
19. GEOTECHNICAL FABRIC FOR GROUND STABILIZATION
20. PIPE UNDERDRAINS 6"
21. CHAIN LINK FENCE, 4'
22. DRAINAGE STRUCTURE - TYPE 4, TY20 GRATE
23. STORM SEWER (SIZE VARIES)
24. LIGHT POLE FOUNDATION (SEE LIGHTING PLANS)
25. PIPE UNDERDRAINS 4"

USER NAME =	DESIGNED -	REVISED -	
	DRAWN -	REVISED -	
PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -	
PLOT DATE = 3/20/2023	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS

SCALE: NONE | SHEET 1 OF 1 SHEETS | STA. N/A TO STA. N/A

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	90(14PP,(15-1)PP-1)	TAZEWELL	31	4

CONTRACT NO. 68H82

ILLINOIS

MORTON RAMP (LOCATION 1)

PCC SHOULDER 10"						
Location	Station Start	Station End	Offset	Length (Ft)	Width (Ft)	Area (Sq yd)
Morton Ramp	7+63	8+73	Rt	110.0	7	85.6
Morton Ramp	9+76	11+84	Rt	208.0	6.5	150.2
					TOTAL	**236**

MODIFIED URETHANE PAVEMENT MARKING	
4" Edge Lines	
Location	Length (Ft)
Morton Ramp	2500

CLASS B PATCHES 10"

LOCATION	Width (Ft)		Length (Ft)	AREA (Sq Yd)	TOTAL AREA (Sq Yd)				DOWEL BARS 1 - 1/2" (Each)	WELDED WIRE REINFORCEMENT (Sq Yd)	SAW CUTS (Ft)
					TYPE I	TYPE II	TYPE III	TYPE IV			
Morton Ramp	8		23	20.4			20.4		14	20	93
Morton Ramp	8.5		23	21.7			21.7		14	22	94.5
Morton Ramp	8		23	20.4			20.4		14	20	93
Morton Ramp	8.5		23	21.7			21.7		14	22	94.5
Morton Ramp	8		23	20.4			20.4		14	20	93
Morton Ramp	8.5		23	21.7			21.7		14	22	94.5
Morton Ramp	8		40	35.6				35.6	14	36	144
Morton Ramp	8.5		40	37.8				37.8	14	38	145.5
Morton Ramp	8		10	8.9		8.9			14		54
Morton Ramp	8.5		10	9.4		9.4			14		55.5
Morton Ramp	8		6	5.3		5.3			14		42
Morton Ramp	7		6	4.7	4.7				14		39
Morton Ramp	8		6	5.3		5.3			14		42
Morton Ramp	8		6	5.3		5.3			14		42
Morton Ramp	7		6	4.7	4.7				14		39
Morton Ramp	8		6	5.3		5.3			14		42
Morton Ramp	7		6	4.7	4.7				14		39
Morton Ramp	8		6	5.3		5.3			14		42
Morton Ramp	7		6	4.7	4.7				14		39
Morton Ramp	8		6	5.3		5.3			14		42
Morton Ramp	7		6	4.7	4.7				14		39
Morton Ramp	8		16	14.2		14.2			14	14	72
Morton Ramp	7		16	12.4		12.4			14	12	69
Morton Ramp	8		7	6.2		6.2			14		45
Morton Ramp	7		7	5.4		5.4			14		42
Morton Ramp	8		6	5.3		5.3			14		42
Morton Ramp	8		6	5.3		5.3			14		42
Morton Ramp	7		6	4.7	4.7				14		39
Morton Ramp	8		11	9.8		9.8			14		57
Morton Ramp	7		11	8.6		8.6			14		54
Morton Ramp	8		6	5.3		5.3			14		42
Morton Ramp	7		6	4.7	4.7				14		39
Morton Ramp	8		6	5.3		5.3			14		42
Morton Ramp	8		6	5.3		5.3			14		42
Morton Ramp	8		6	5.3		5.3			14		42
Morton Ramp	8		6	5.3		5.3			14		42
Morton Ramp	8		6	5.3		5.3			14		42
Morton Ramp	8		6	5.3		5.3			14		42
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Morton Ramp	8		6	5.3		5.3			14		42
Morton Ramp	8		6	5.3		5.3			14		42
Morton Ramp	8		6	5.3		5.3			14		42
Morton Ramp	8		6	5.3		5.3			14		42
Morton Ramp	8		27	24.0			24.0		14	24	105
Morton Ramp	8		27	24.0			24.0		14	24	105
Morton Ramp	8		6	5.3		5.3			14		42
Morton Ramp	8		6	5.3		5.3			14		42
Morton Ramp	8		6	5.3		5.3			14		42
Morton Ramp	8		6	5.3		5.3			14		42
Morton Ramp	8		6	5.3		5.3			14		42
Morton Ramp	8		6	5.3		5.3			14		42
				TOTAL	**33**	**214**	**175**	**73**	**714**	**274**	**2876**
					*	*	*	*			

I–74 OVER JACKSON STREET IN MORTON (LOCATION 2)

FOAM, EXPANDING POLYURETHANE, HIGH DENSITY			
Station From		Station To	Pound
566+20		567+50	2520.0

CLASS B PATCHES 10" (Expansion Patch)

LOCATION	Width (Ft)		Length (Ft)	AREA (Sq Yd)	TOTAL AREA (Sq Yd)			DOWEL BARS - 1 - 1/2" (Each)	WELDED WIRE REINFORCEMENT (Sq Yd)	SAW CUTS (Ft)	Tie Bars 3/4" (Each)	Expansion Joint (Ft)
					TYPE II	TYPE III	TYPE IV					
WB I-74 585+12	22		6	14.7		14.7		20		78	20	22
				TOTAL	**0**	**14.7**		**20**		**78**	**20**	**22**

EB I-74 (LOCATION 3)

LOCATION	STA	TO	STA	WIDTH (FT)		LENGTH (FT)	AREA TYPE IV (SQ YD)	PATCHING REINFORCEMENT (SQ YD)	SAW CUTS (FT)	TIE BARS 3/4" (EACH)
EB I-74	494+00		494+50	6		50	34	34	174	34

* AS DIRECTED BY RESIDENT ENGINEER

USER NAME =
PLOT SCALE = 100.0000 ' / in.
PLOT DATE = 3/20/2023

DESIGNED -
DRAWN -
CHECKED -
DATE -

REVISED -
REVISED -
REVISED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES

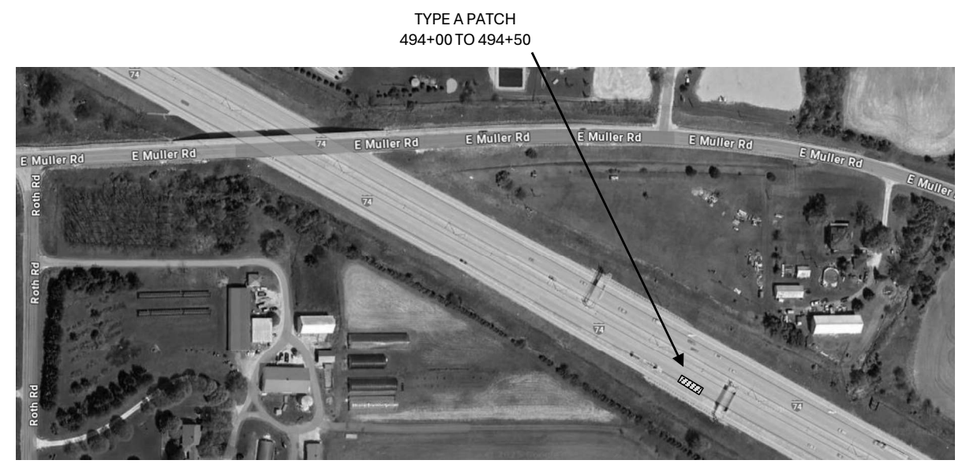
SCALE: NONE | SHEET 1 OF 1 SHEETS | STA. N/A TO STA. N/A

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	90[14PP;(15-1)PP-1]	TAZEWELL	31	5

CONTRACT NO. 68H82

ILLINOIS

LOCATION 1 AND 2



LOCATION 3

USER NAME =	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	LINE DIAGRAMS	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	DRAWN -	REVISED -			74	90(14PP;(15-1)PP-1]	TAZEWELL	31	6
PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -					CONTRACT NO. 68H82		
PLOT DATE = 3/20/2023	DATE -	REVISED -		SCALE: NONE SHEET 1 OF 1 SHEETS STA. N/A TO STA. N/A			ILLINOIS		

CLASS B PATCHES TO BE DETERMINED BY RESIDENT ENGINEER

MATCHLINE (SEE BELOW LEFT)

MATCHLINE (SEE ABOVE RIGHT)

NOTES:
1. SHOULDER REPLACEMENT SHOULD BE COMPLETED PRIOR TO PATCHING.

FILE NAME = $FILE$
PLOT SCALE = $SCALE$
USER NAME = $USERNAME$

MILLENNIA PROFESSIONAL SERVICES
www.millennia.pro

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

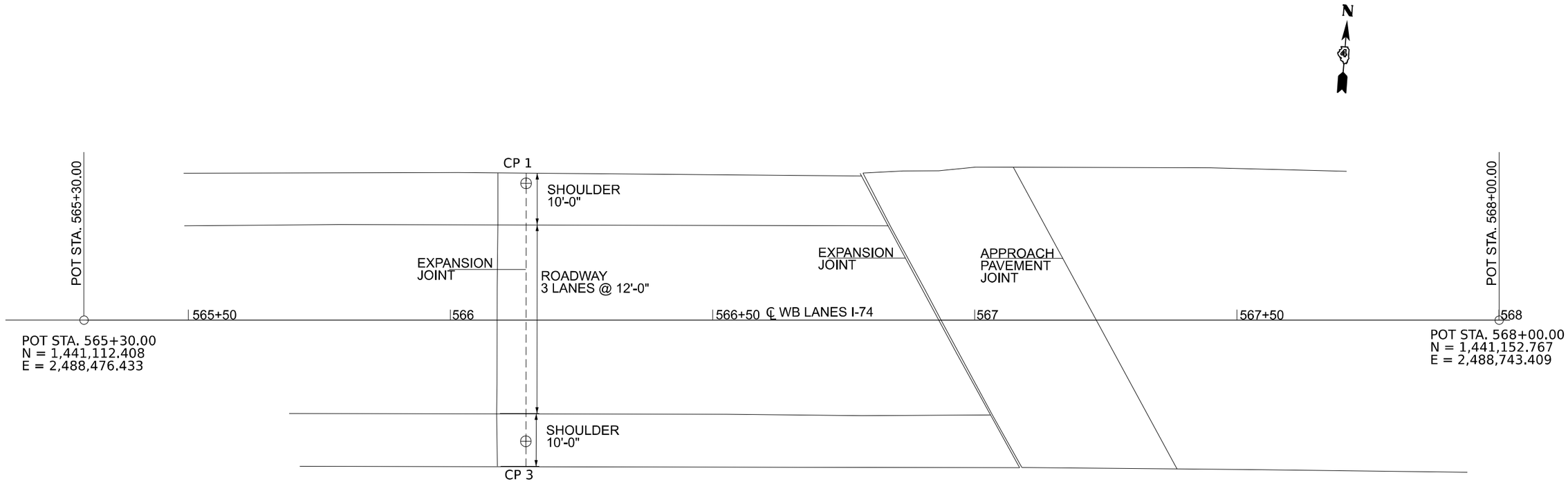
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

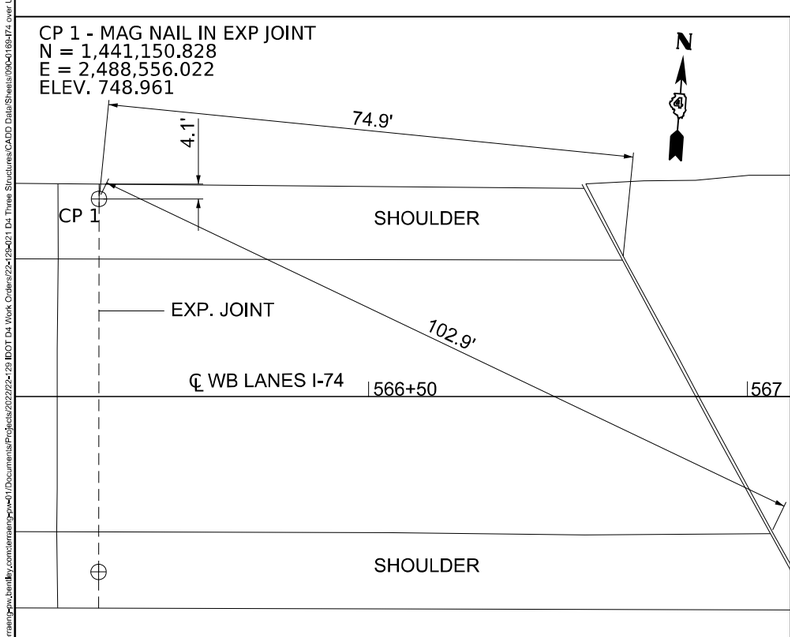
I-74
PATCHING PLAN (LOCATION 1)

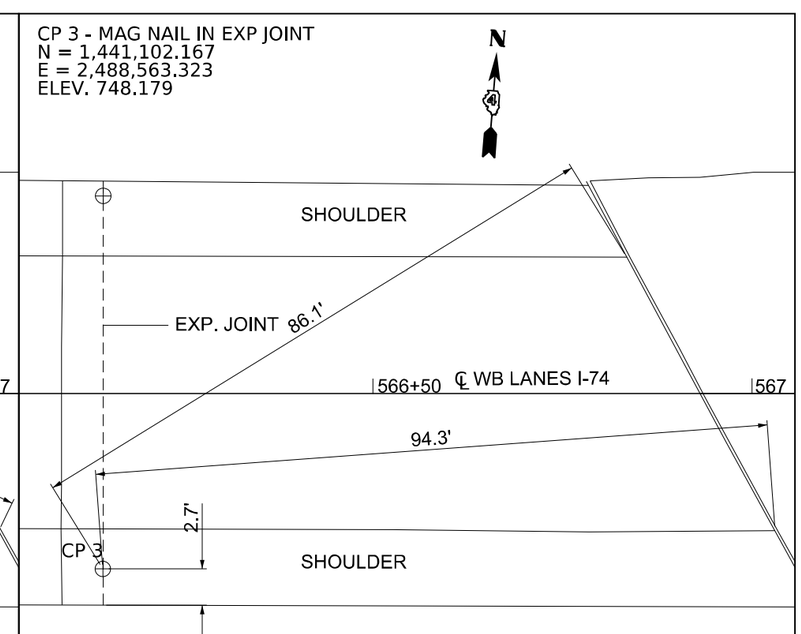
SCALE: | SHEET NO. 1 OF 3 SHEETS | STA. | TO STA.

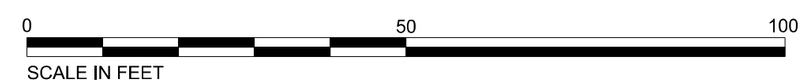
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	90[(14)I-6;15-1)PP-1]	TAZEWELL	31	7
		CONTRACT NO. 68H82		
FED. ROAD DIST. NO. 4	ILLINOIS	FED. AID PROJECT		

$FILE$









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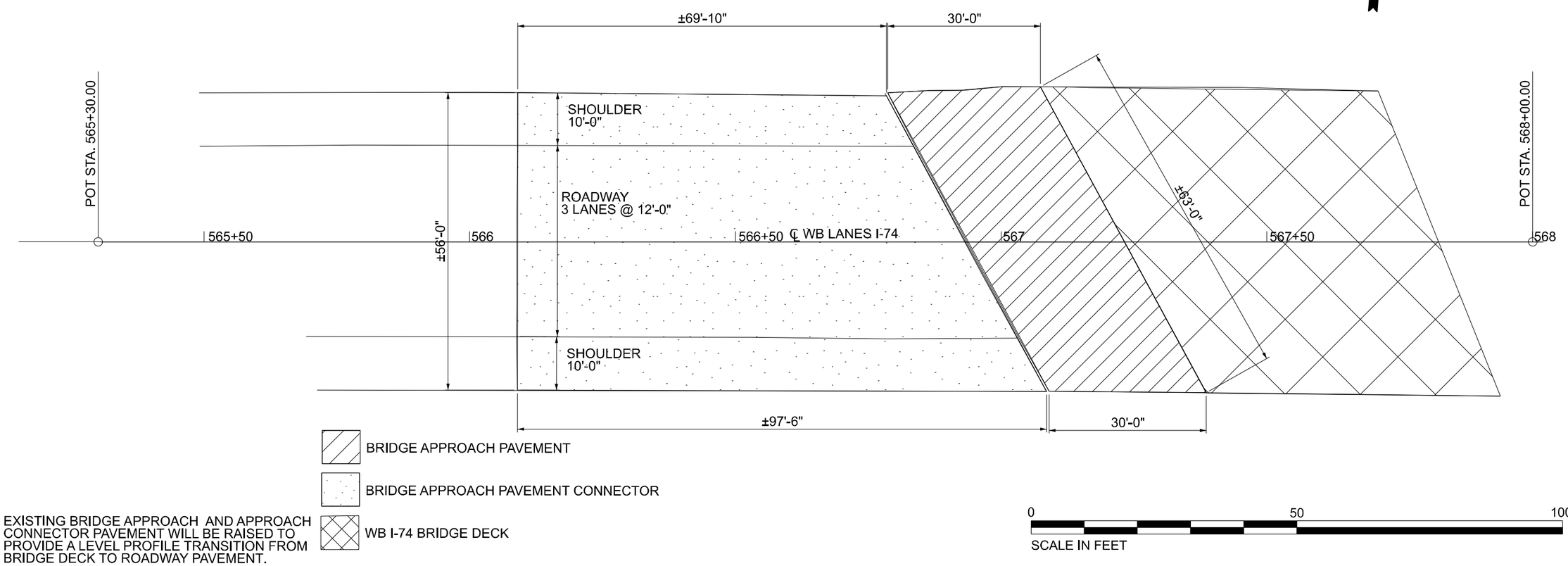
TERRA ENGINEERING LTD.	USER NAME = brennaa	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = 2.000 ' / in.	CHECKED -	REVISED -
	PLOT DATE = 1/9/2024	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

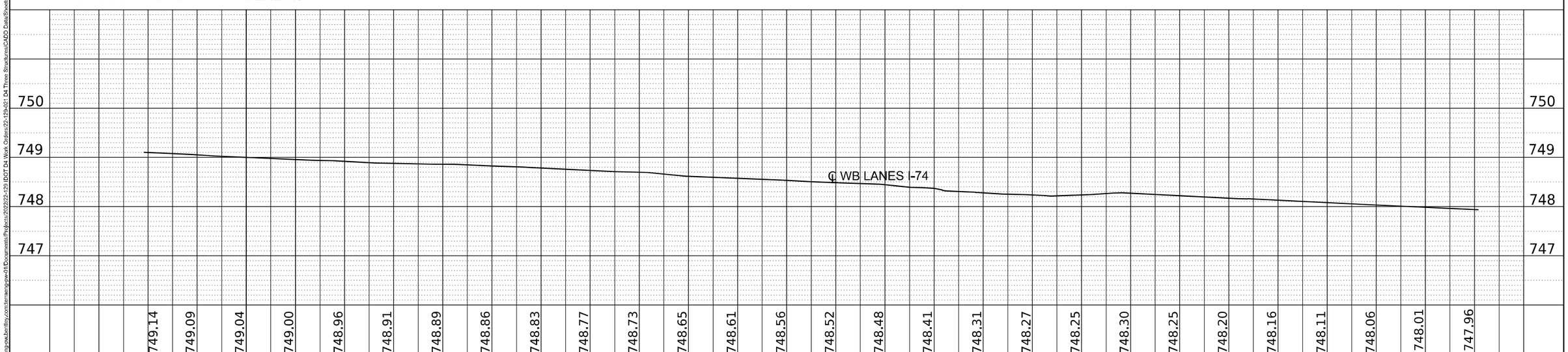
ALIGNMENT, TIES AND BENCHMARKS
WB I-74 OVER US 150 (LOCATION 2)

SCALE: | SHEET 1 OF 21 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	90[(14)I-6;15-1)PP-1]	TAZEWELL	31	8
		CONTRACT NO. 68H82		
		ILLINOIS	FED. AID PROJECT	



EXISTING BRIDGE APPROACH AND APPROACH CONNECTOR PAVEMENT WILL BE RAISED TO PROVIDE A LEVEL PROFILE TRANSITION FROM BRIDGE DECK TO ROADWAY PAVEMENT.



PLAN		BY	DATE
SURVEYED			
PLOTTED			
ALIGNMENT CHECKED			
RT. OF WAY CHECKED			
NOTE BOOK	C.ADD. F.E.E. NAME		
NO.			

#PLTDRVGS#

PROFILE		BY	DATE
SURVEYED			
PLOTTED			
GRADES CHECKED			
B.M. NOTE			
NOTE BOOK	B.M. NOTE NOTATNS CHKD		
NO.			

MODEL: Default
FILE NAME: pw://terraeng-pw.bentley.com:terraeng-pw01/Documents/Projects/2022/22-129 IDOT D4 Work Orders/22-129-X01 D4 Truss Structures/CADD Data/Sheets/090-0169-#01SHEETS/BRIDGE/22-129-X01-SHT-PLPR.dgn

USER NAME = brennaa	DESIGNED - BKR	REVISED -	
	DRAWN - BKR	REVISED -	
PLOT SCALE = 2.008 ' / in.	CHECKED - CEM	REVISED -	
PLOT DATE = 1/9/2024	DATE - 11/01/2023	REVISED -	

TERRA ENGINEERING LTD.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

S.N. 090–0169 PLAN AND PROFILE
WB I–74 OVER US 150 (LOCATION 2)

SCALE: | SHEET 2 OF 21 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	90[(14)I-6;15-1)PP-1]	TAZEWELL	31	9

CONTRACT NO. 68H82

ILLINOIS | FED. AID PROJECT

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

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

MODEL: Ex-Rt I-74- 566+00.00 [Sheet]
FILE NAME: pw:\\terraengineering.bentley.com:terraeng-pw-eu01\Documents\Projects\2022\22-129 IDOT D4 Work Orders\22-129-W21 D4 Three Structures\CADD Data\Existing Files\2212922-090016\9-EX X-SECTIONS-2D.dgn

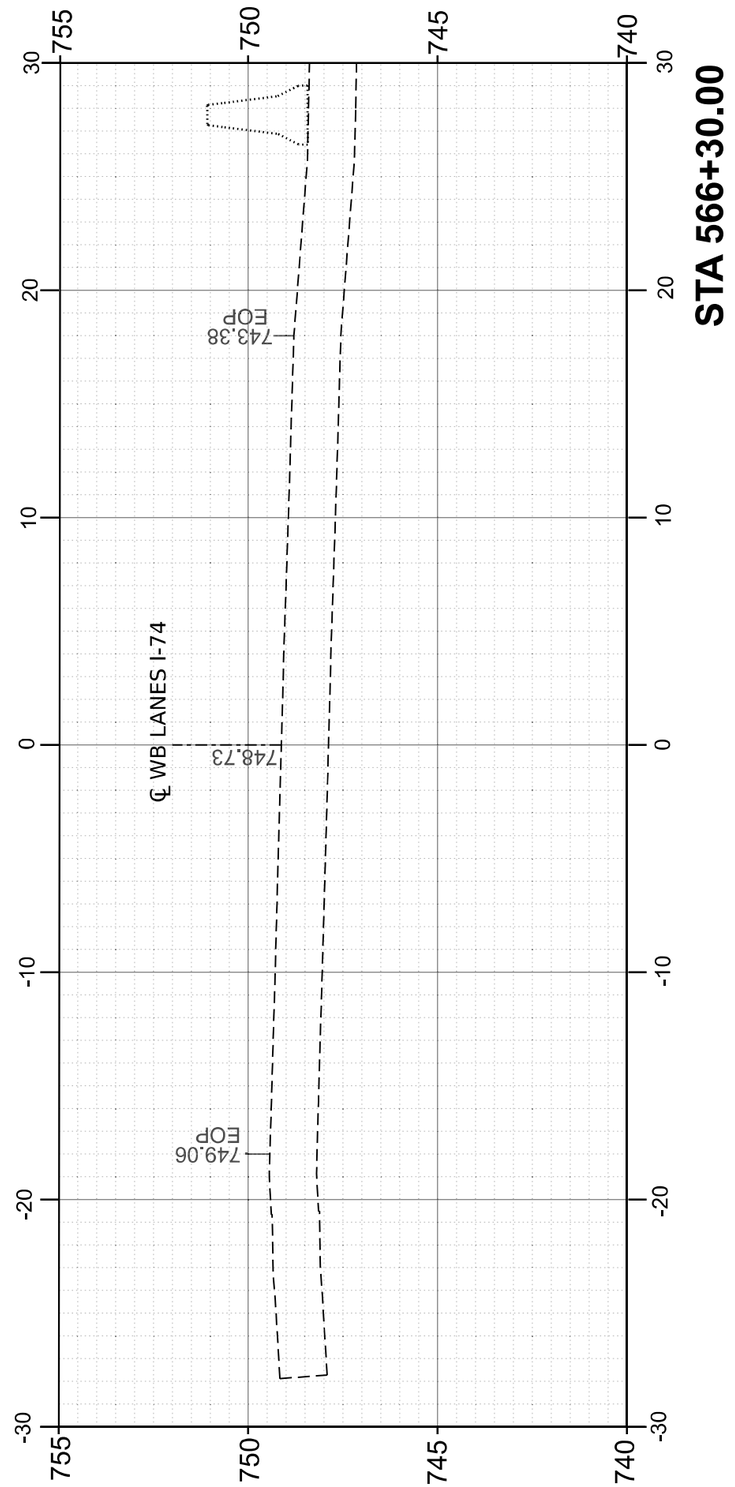
USER NAME = brennaa	DESIGNED - ____	REVISED - ____
	DRAWN - ____	REVISED - ____
PLOT SCALE = 0.16666633 ' / in.	CHECKED - ____	REVISED - ____
PLOT DATE = 1/2/2024	DATE - ____	REVISED - ____

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EX. CROSS SECTIONS
WB I-74 OVER US 150 (LOCATION 2)

SCALE: ____ | SHEET 3 OF 21 SHEETS | STA. 566+00.00 TO STA. 566+20.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	90[(14)I-6;15-1)PP-1]	TAZEWELL	31	10
		CONTRACT NO. 68H82		
	ILLINOIS	FED. AID PROJECT		



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

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

MODEL: Ex-BL I-74 - 566+30.00 [Sheet]
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USER NAME = brennaa	DESIGNED - ____	REVISED - ____	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
	DRAWN - ____	REVISED - ____	
PLOT SCALE = 0.16666633 ' / in.	CHECKED - ____	REVISED - ____	
PLOT DATE = 1/2/2024	DATE - ____	REVISED - ____	

EX. CROSS SECTIONS
WB I-74 OVER US 150 (LOCATION 2)

SCALE: ____ | SHEET 4 OF 21 SHEETS | STA. 566+30.00 TO STA. 566+30.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	90[(14)I-6;15-1)PP-1]	TAZEWELL	31	11
		CONTRACT NO. 68H82		
	ILLINOIS	FED. AID PROJECT		

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

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

MODEL: Exit I-74 - 566+40.00 [Sheet]
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TERRA ENGINEERING LTD.

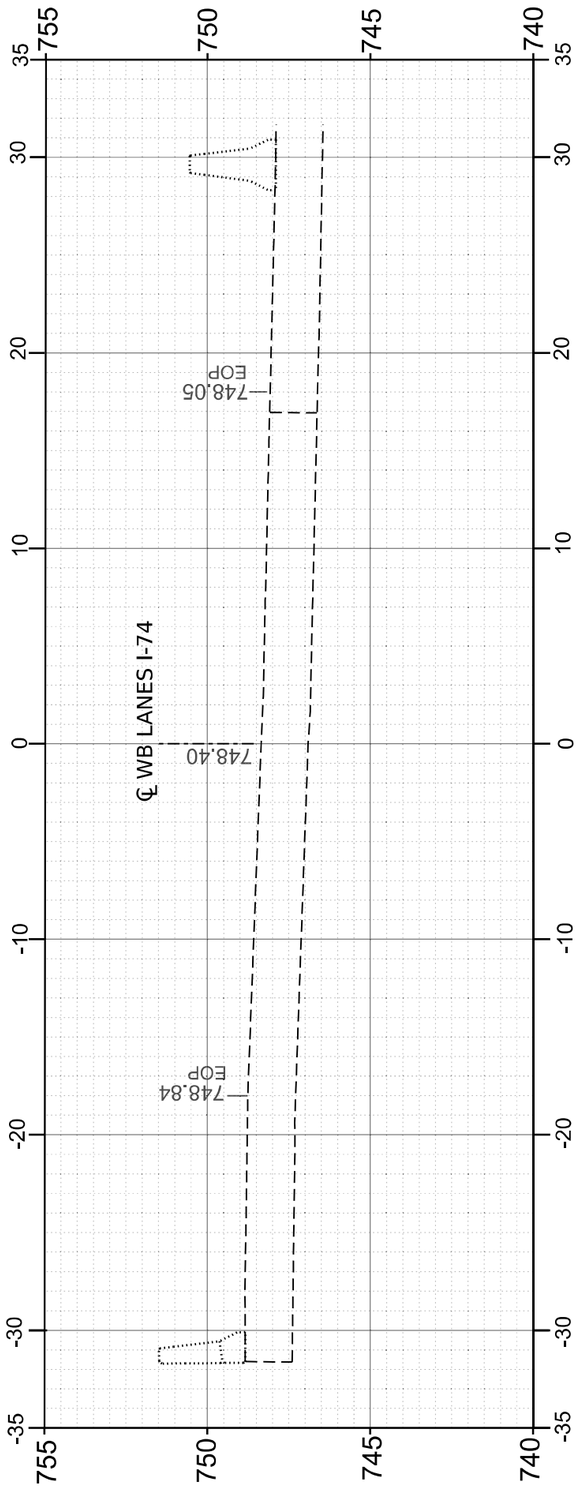
USER NAME = brennaa	DESIGNED - ____	REVISED - ____	
	DRAWN - BKR	REVISED - ____	
PLOT SCALE = 0.16666633 ' / in.	CHECKED - CM	REVISED - ____	
PLOT DATE = 1/2/2024	DATE - ____	REVISED - ____	

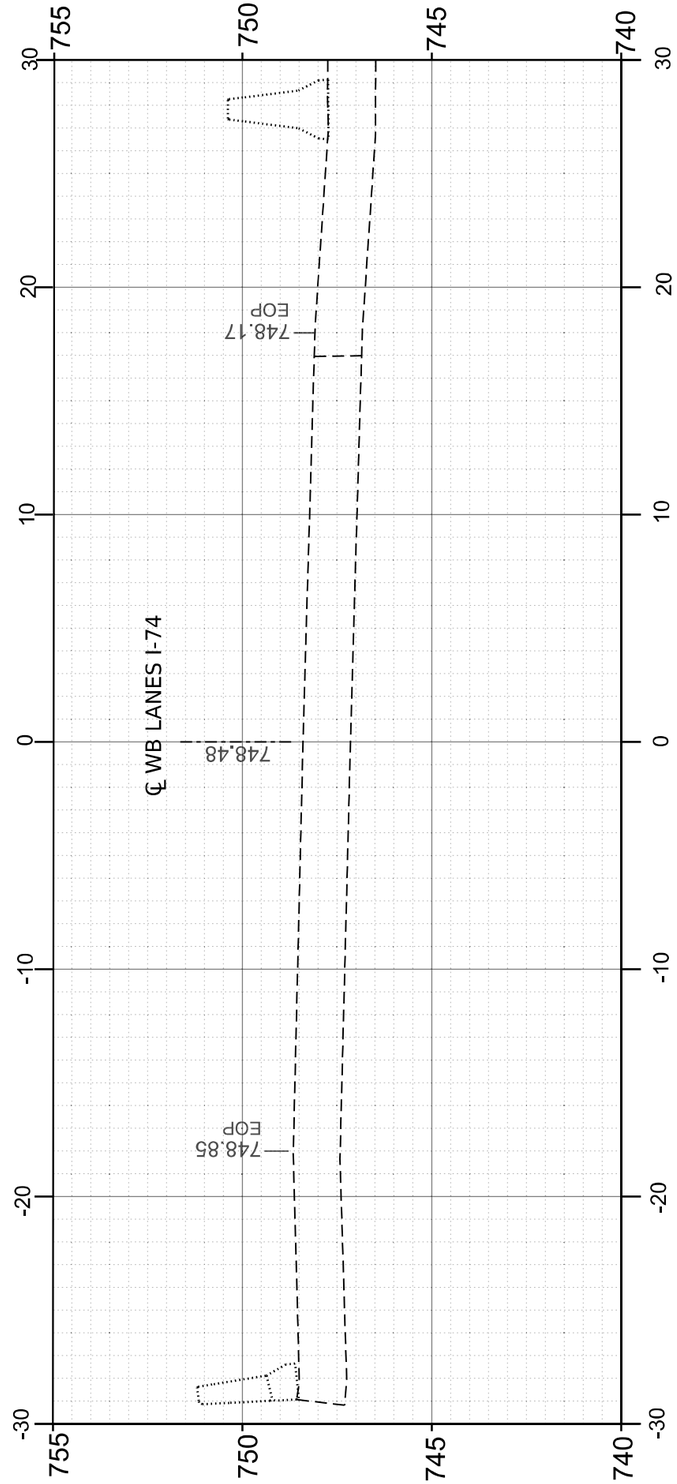
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

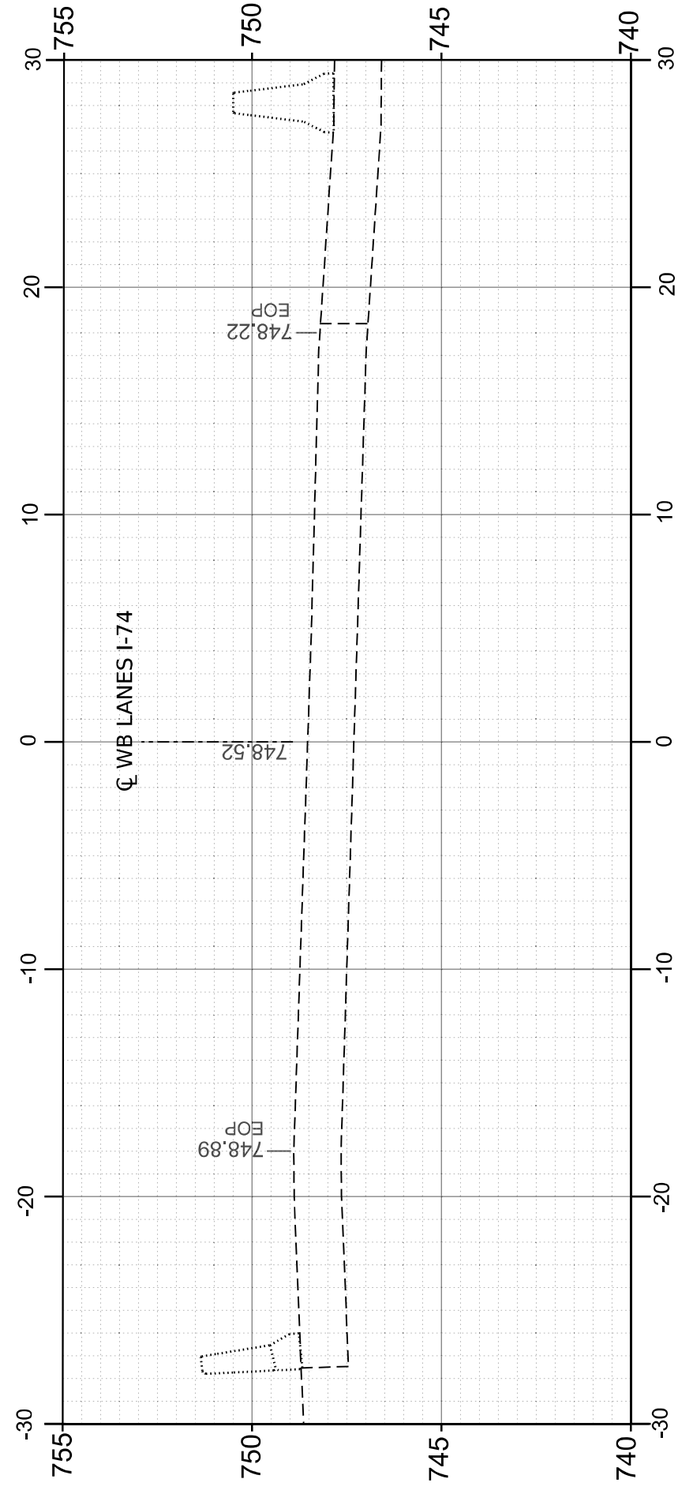
EX. CROSS SECTIONS
WB I–74 OVER US 150 (LOCATION 2)

SCALE: 1"=20' | SHEET 5 OF 21 SHEETS | STA. 566+40.00 TO STA. 566+60.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	90[(14)]I-6;15-1)PP-1]	TAZEWELL	31	12
		CONTRACT NO. 68H82		
	ILLINOIS	FED. AID PROJECT		







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

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

MODEL: I-74 - 566+70.00 [Sheet]
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TERRA ENGINEERING LTD.

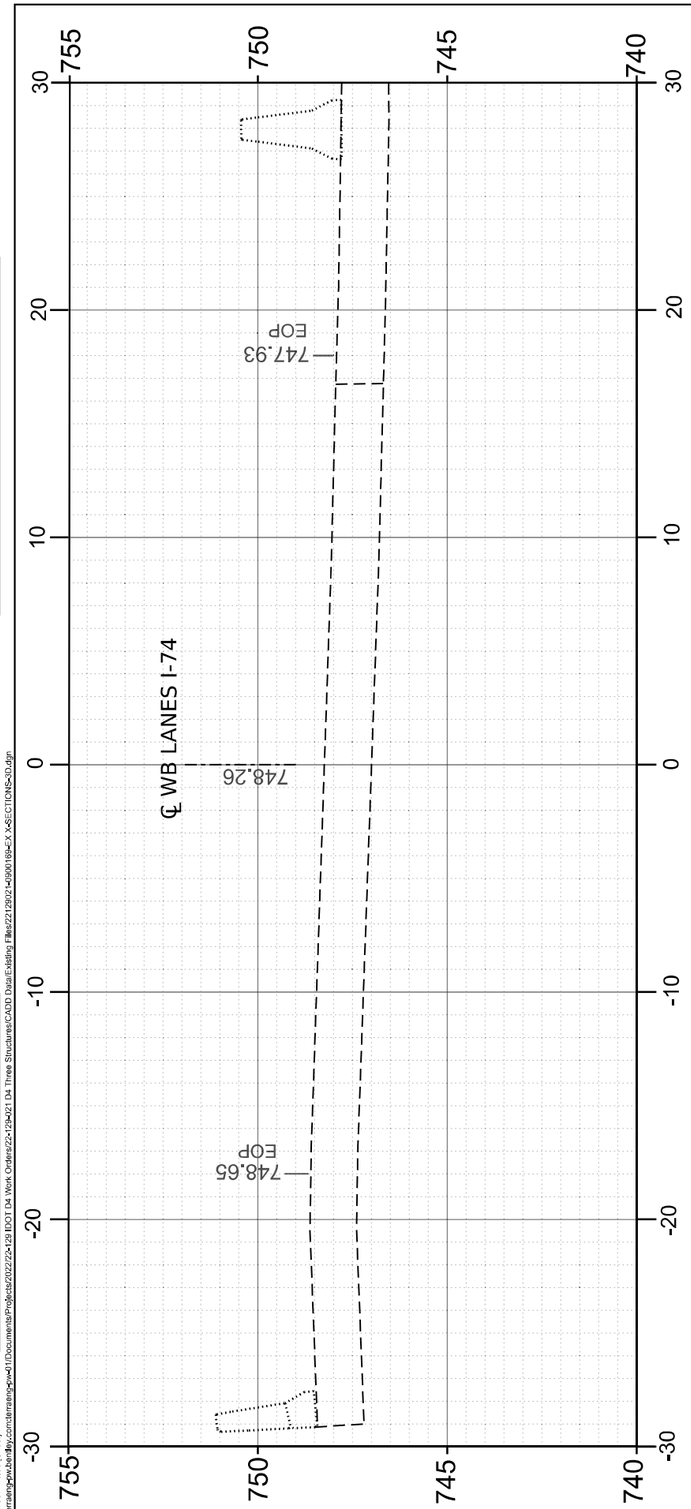
USER NAME = brennaa	DESIGNED - ____	REVISED - ____	
	DRAWN - BKR	REVISED - ____	
PLOT SCALE = 0.16666633 ' / in.	CHECKED - CM	REVISED - ____	
PLOT DATE = 1/10/2024	DATE - ____	REVISED - ____	

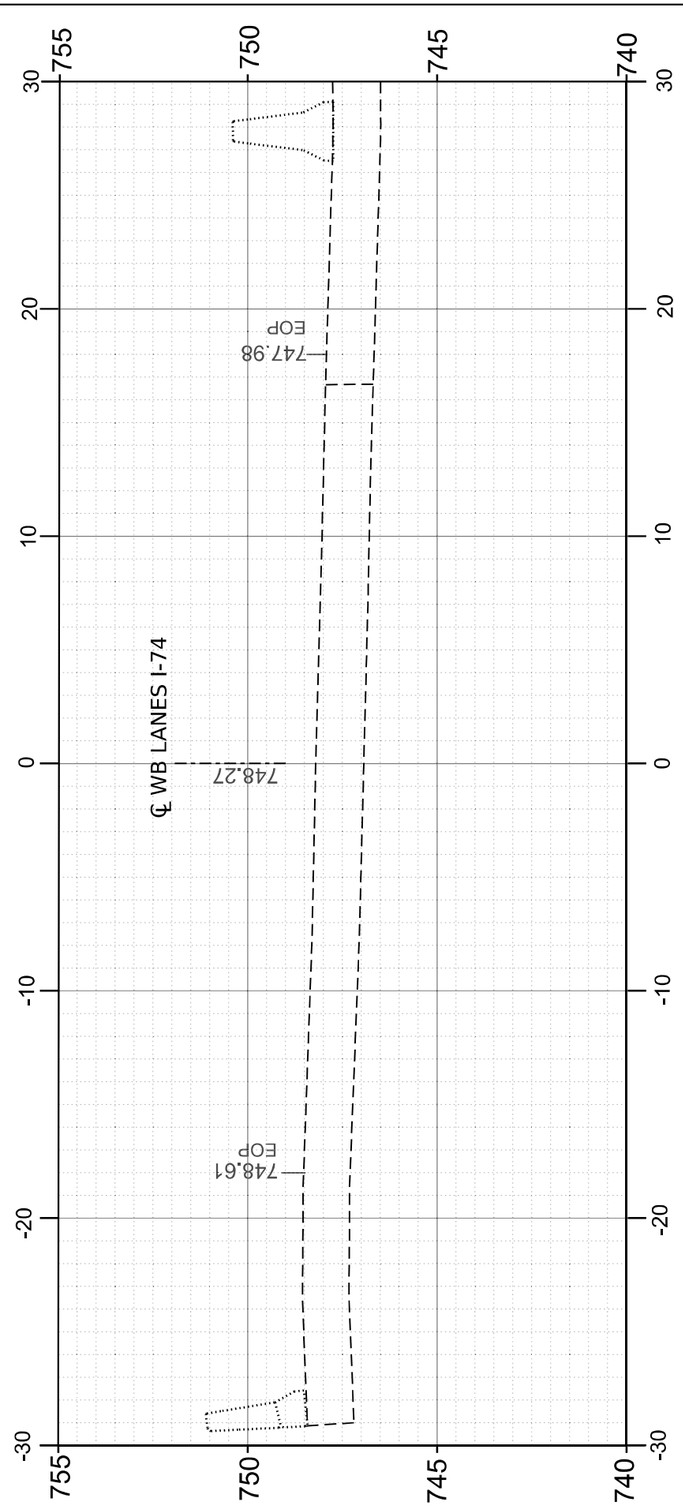
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

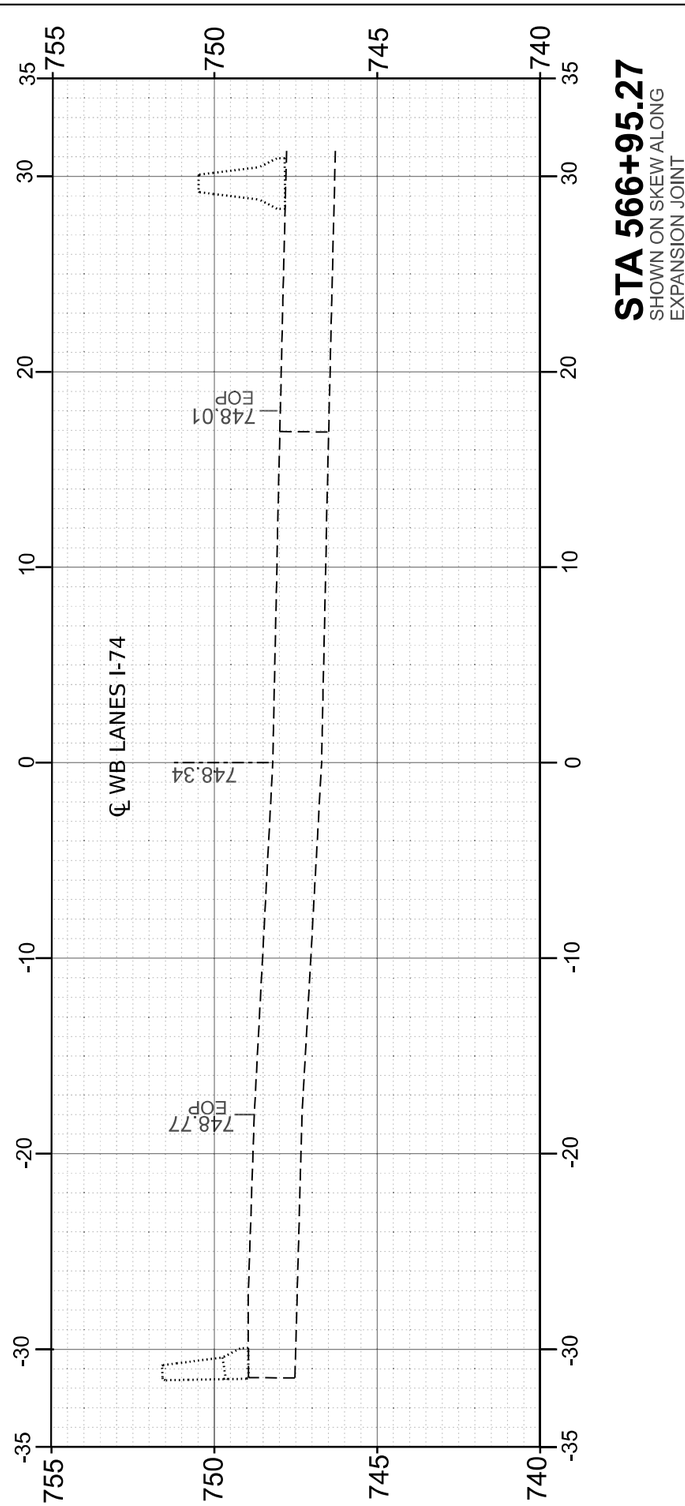
EX. CROSS SECTIONS
WB I-74 OVER US 150 (LOCATION 2)

SCALE: 1"=20' | SHEET 6 OF 21 SHEETS | STA. 566+40.00 TO STA. 566+92.11

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	90[(14)I-6;15-1)PP-1]	TAZEWELL	31	13
		CONTRACT NO. 68H82		
		ILLINOIS	FED. AID PROJECT	







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

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

MODEL: FABL I-75 - 567+10.00 [Sheet]
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TERRA ENGINEERING LTD.

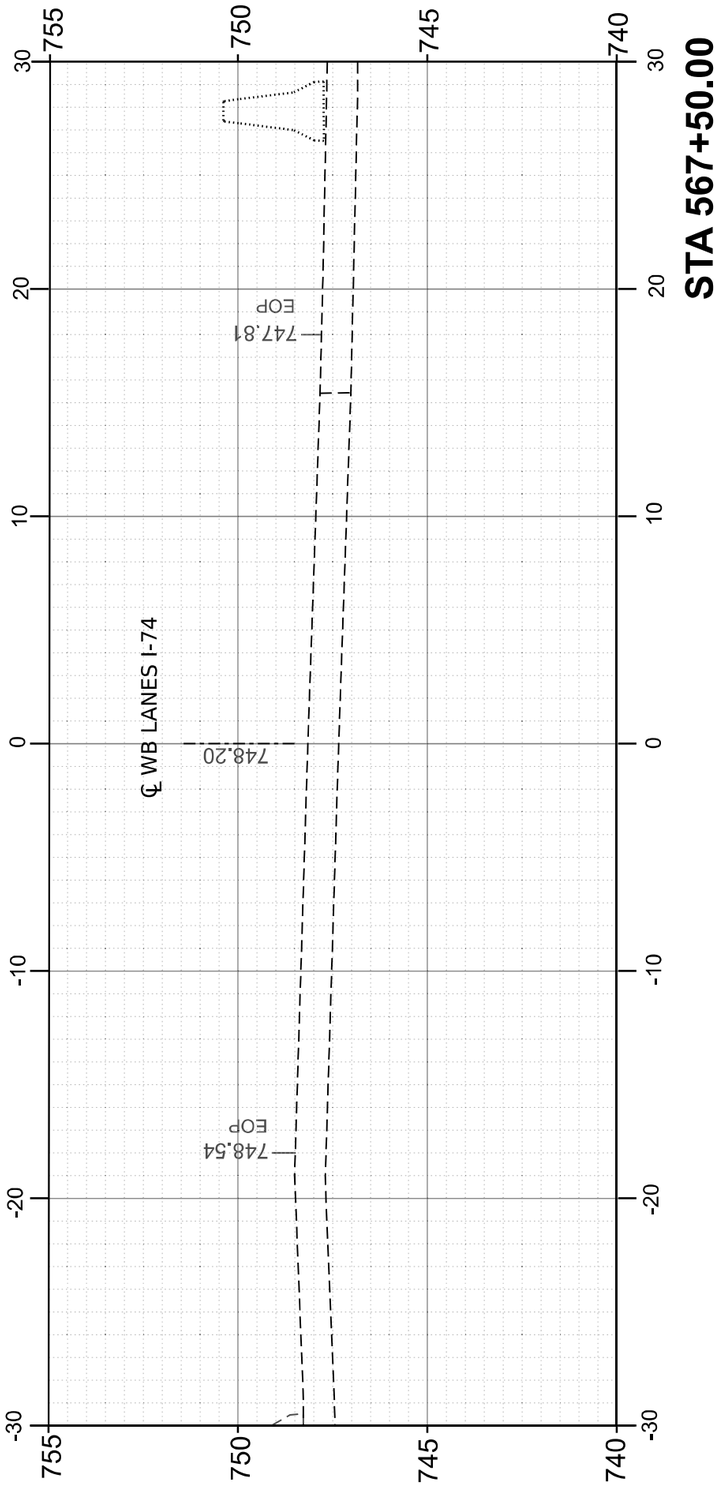
USER NAME = brennaa	DESIGNED - ____	REVISED - ____	
	DRAWN - BKR	REVISED - ____	
PLOT SCALE = 0.16666633 ' / in.	CHECKED - CM	REVISED - ____	
PLOT DATE = 1/10/2024	DATE - ____	REVISED - ____	

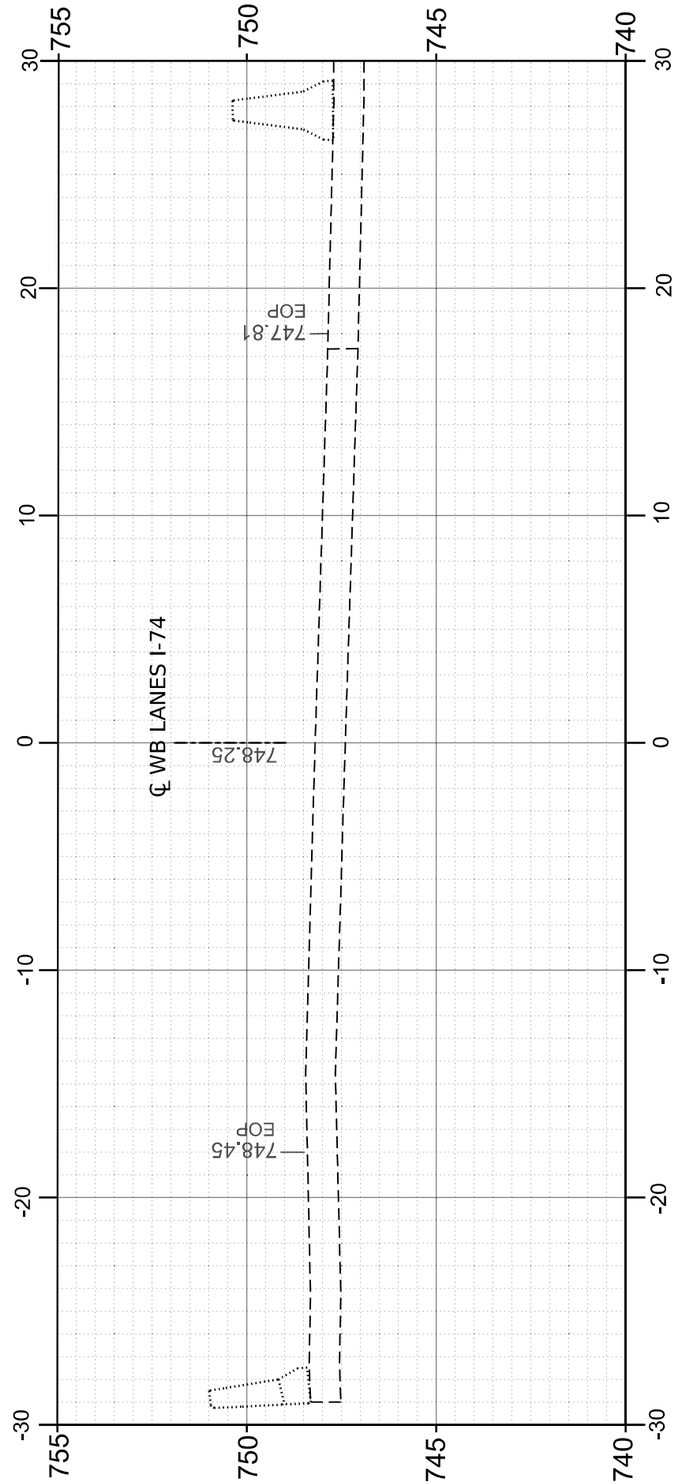
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

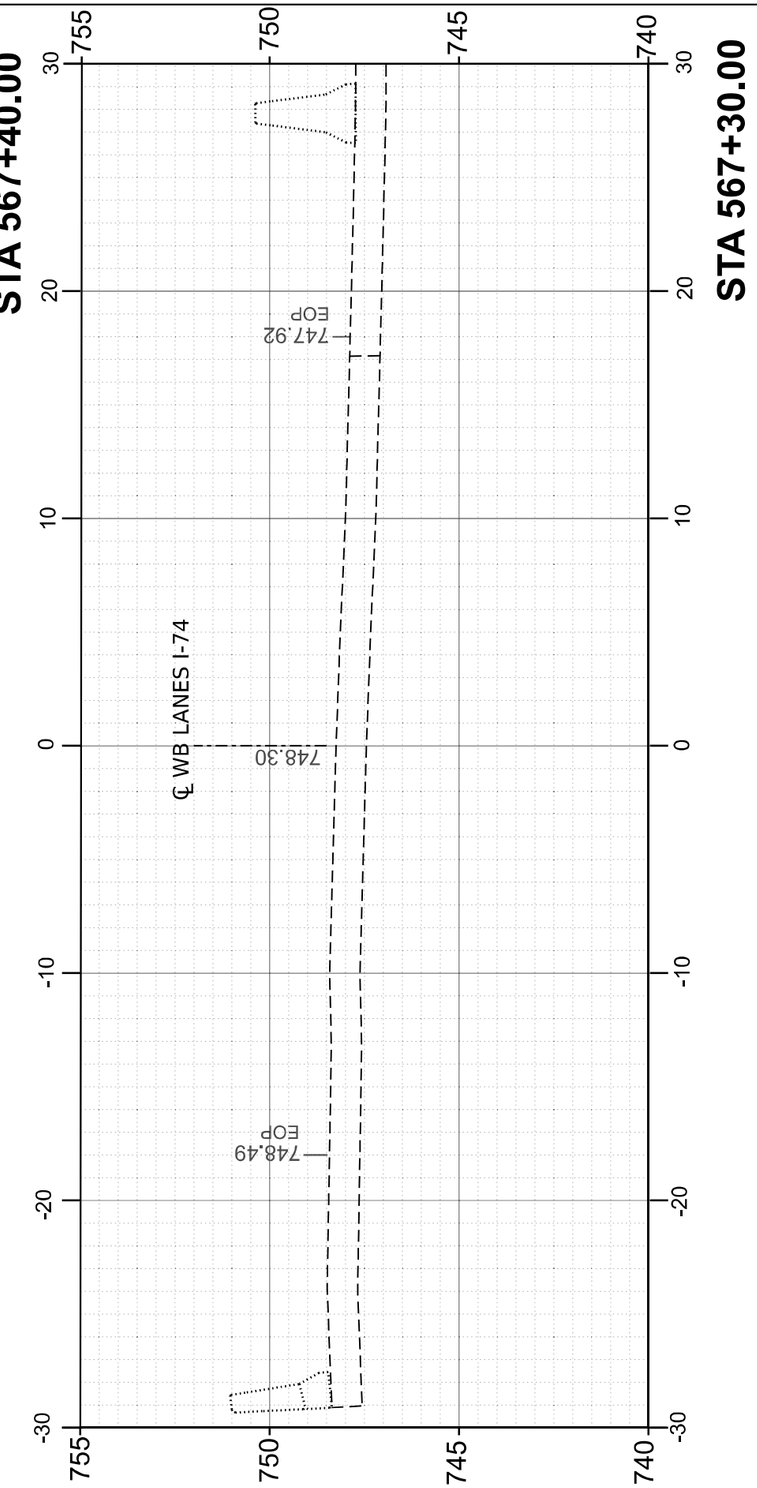
EX. CROSS SECTIONS
WB I-74 OVER US 150 (LOCATION 2)

SCALE: 1"=20' | SHEET 7 OF 21 SHEETS | STA. 566+95.27 TO STA. 567+30.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	90[(14)I-6;15-1)PP-1]	TAZEWELL	31	14
		CONTRACT NO. 68H82		
		ILLINOIS	FED. AID PROJECT	







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

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

MODEL: FHBL I-75 - 567-40.00 [Sheet]
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TERRA ENGINEERING LTD.

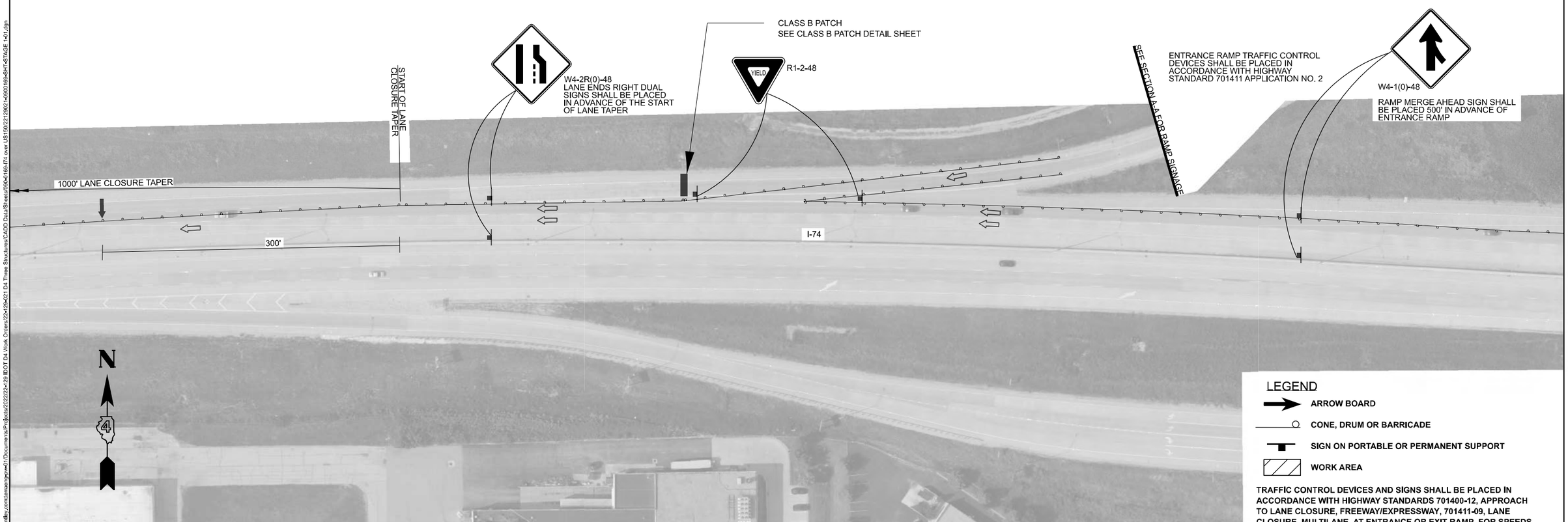
USER NAME = brennaa	DESIGNED - ____	REVISED - ____	
	DRAWN - BKR	REVISED - ____	
PLOT SCALE = 0.16666633 ' / in.	CHECKED - CM	REVISED - ____	
PLOT DATE = 1/10/2024	DATE - ____	REVISED - ____	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EX. CROSS SECTIONS
WB I-74 OVER US 150 (LOCATION 2)

SCALE: 1"=20' | SHEET 8 OF 21 SHEETS | STA. 567+30.00 TO STA. 567+50.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	90[(14)I-6;15-1)PP-1]	TAZEWELL	31	15
		CONTRACT NO. 68H82		
		ILLINOIS	FED. AID PROJECT	



TRAFFIC CONTROL DEVICES AND SIGNS SHALL BE PLACED IN ACCORDANCE WITH HIGHWAY STANDARDS 701400-12, APPROACH TO LANE CLOSURE, FREEWAY/EXPRESSWAY, 701411-09, LANE CLOSURE, MULTILANE, AT ENTRANCE OR EXIT RAMP, FOR SPEEDS GREATER THAN OR EQUAL TO 45 MPH, AND 701446-11, TWO LANE CLOSURE, FREEWAY/EXPRESSWAY.

MODEL: Default
FILE NAME: pw://terraeng@pw.bentley.com:terraeng-pw-01/Documents/Projects/2022/22-129 IDOT D4 Work Orders/22-129-021 D4 Three Structures/CADD Data/Sheets/090H0169-P4 over US150/2212900-H090H0169-SHT-STAGE 1-01.dgn

TERRA ENGINEERING LTD.

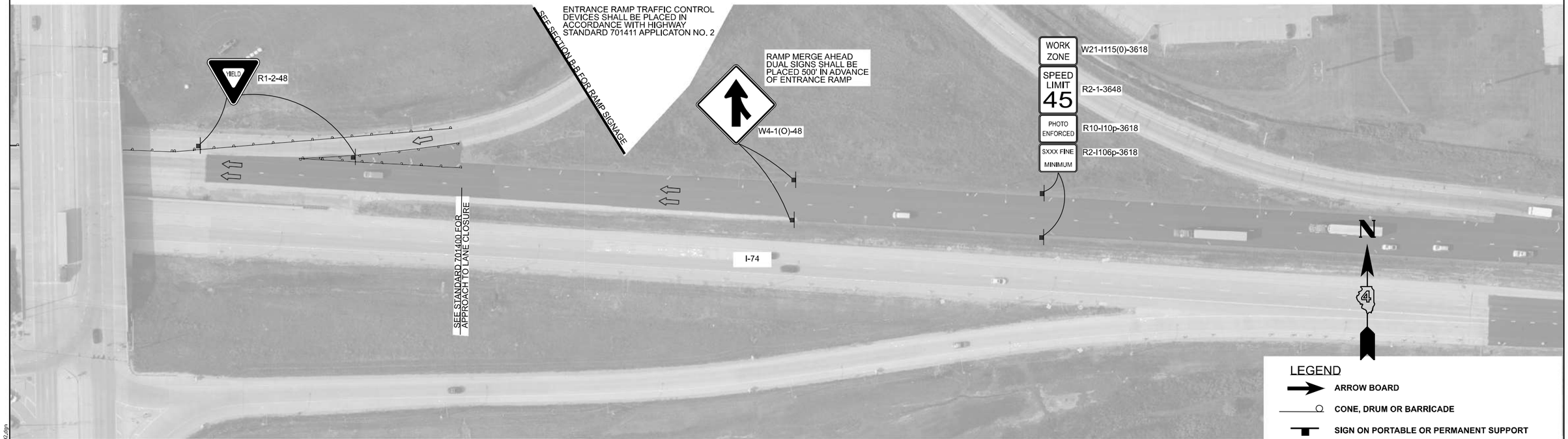
USER NAME = brennaa	DESIGNED -	REVISED -	
	DRAWN -	REVISED -	
PLOT SCALE = 100.000 ' / in.	CHECKED -	REVISED -	
PLOT DATE = 3/5/2024	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STAGE 1 TRAFFIC CONTROL
WB I-74 OVER US 150 (LOCATION 2)

SCALE: 1"=20' | SHEET 9 OF 21 SHEETS | STA. TO STA.

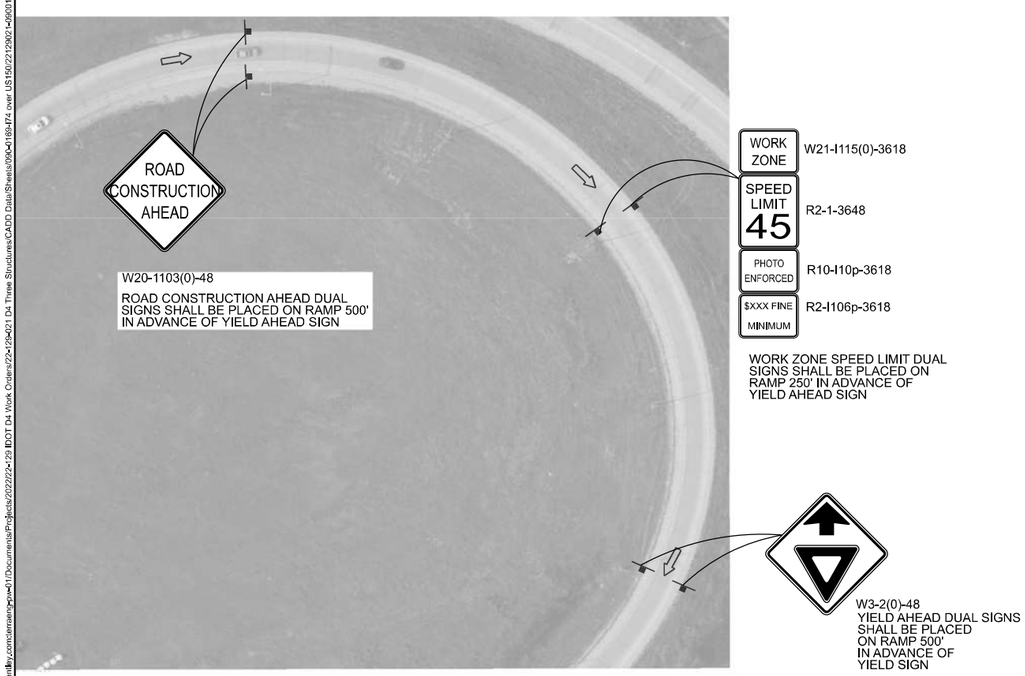
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	90[(14)I-6;15-1)PP-1]	TAZEWELL	31	16
		CONTRACT NO. 68H82		
		ILLINOIS FED. AID PROJECT		



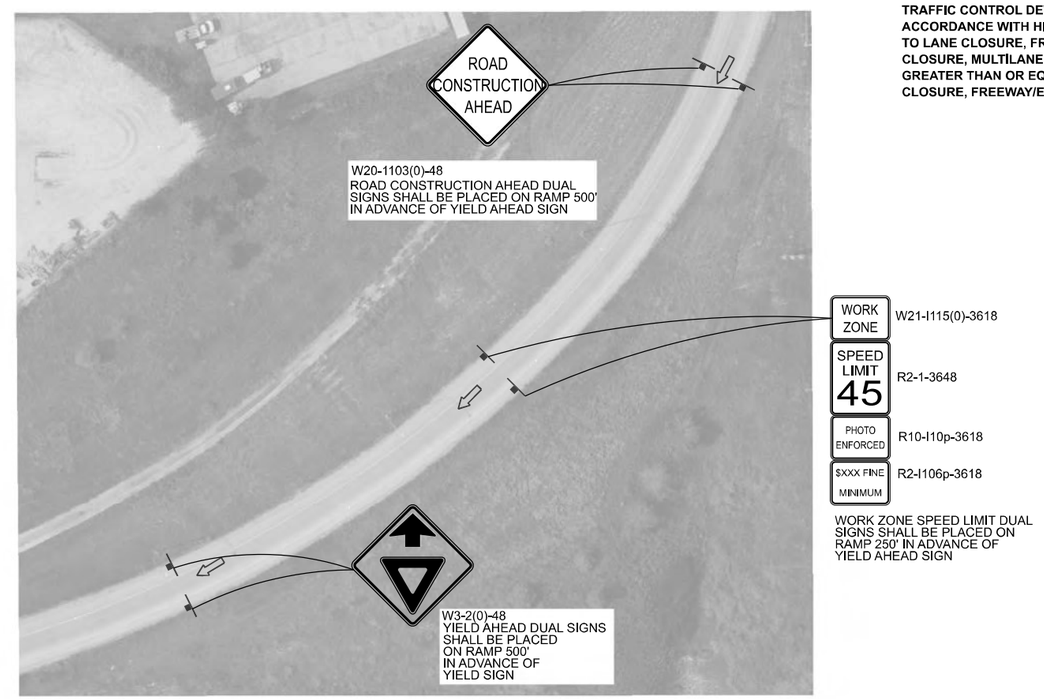
LEGEND

- ARROW BOARD
- CONE, DRUM OR BARRICADE
- SIGN ON PORTABLE OR PERMANENT SUPPORT
- WORK AREA

TRAFFIC CONTROL DEVICES AND SIGNS SHALL BE PLACED IN ACCORDANCE WITH HIGHWAY STANDARDS 701400-12, APPROACH TO LANE CLOSURE, FREEWAY/EXPRESSWAY, 701411-09, LANE CLOSURE, MULTILANE, AT ENTRANCE OR EXIT RAMP, FOR SPEEDS GREATER THAN OR EQUAL TO 45 MPH, AND 701446-11, TWO LANE CLOSURE, FREEWAY/EXPRESSWAY.



SECTION B-B
NB MORTON AVE. TO WB I-74 ENTRANCE RAMP



SECTION A-A
SB MORTON AVE. TO WB I-74 ENTRANCE RAMP

MODEL: Default
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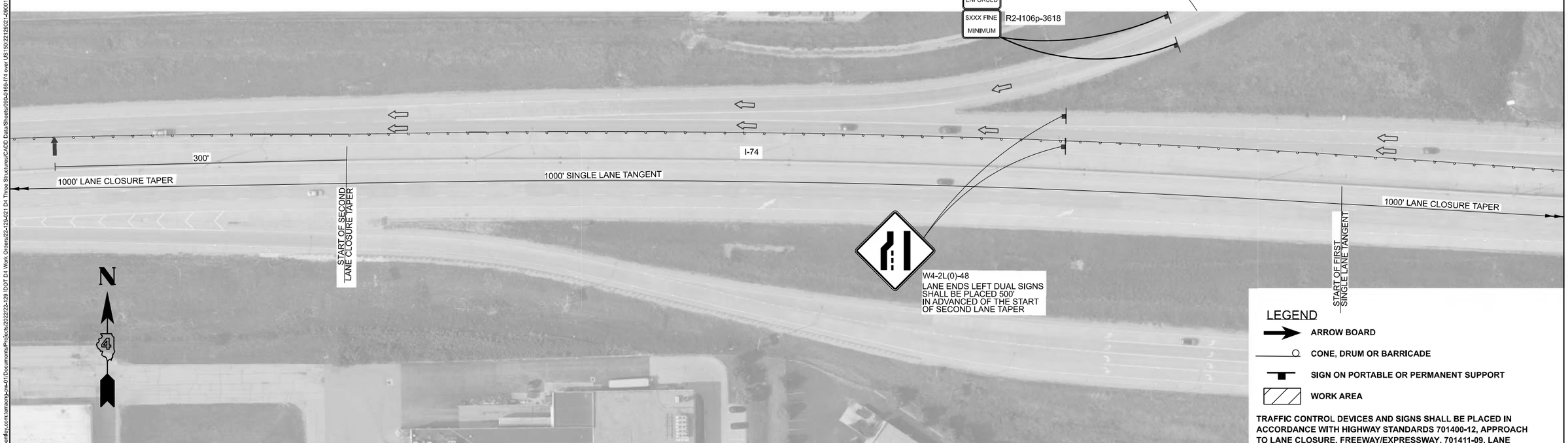
TERRA ENGINEERING LTD.	USER NAME = brennaa	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	STAGE 1 TRAFFIC CONTROL WB I-74 OVER US 150 (LOCATION 2)	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS / SHEET NO.
		DRAWN -	REVISED -			74	90[(14)I-6;15-1)PP-1]	TAZEWELL	31 / 17
	PLOT SCALE = 100.000 ' / in.	CHECKED -	REVISED -					CONTRACT NO. 68H82	
	PLOT DATE = 3/5/2024	DATE -	REVISED -		SCALE: 1"=20' SHEET 10 OF 21 SHEETS STA. TO STA.		ILLINOIS	FED. AID PROJECT	

WORK ZONE SPEED LIMIT DUAL SIGNS SHALL BE PLACED ON RAMP 500' IN ADVANCE OF RAMP ENTRANCE

WORK ZONE	W21-I115(0)-3618
SPEED LIMIT 45	R2-1-3648
PHOTO ENFORCED	R10-I10p-3618
$XXX FINE MINIMUM	R2-I106p-3618

ROAD CONSTRUCTION AHEAD

W20-I103(0)-48
ROAD CONSTRUCTION AHEAD DUAL SIGNS SHALL BE PLACED ON RAMP 500' IN ADVANCE OF WORK ZONE SPEED LIMIT SIGN



W4-2L(0)-48
LANE ENDS LEFT DUAL SIGNS SHALL BE PLACED 500' IN ADVANCED OF THE START OF SECOND LANE TAPER

LEGEND

- ARROW BOARD
- CONE, DRUM OR BARRICADE
- SIGN ON PORTABLE OR PERMANENT SUPPORT
- WORK AREA

TRAFFIC CONTROL DEVICES AND SIGNS SHALL BE PLACED IN ACCORDANCE WITH HIGHWAY STANDARDS 701400-12, APPROACH TO LANE CLOSURE, FREEWAY/EXPRESSWAY, 701411-09, LANE CLOSURE, MULTILANE, AT ENTRANCE OR EXIT RAMP, FOR SPEEDS GREATER THAN OR EQUAL TO 45 MPH, AND 701446-11, TWO LANE CLOSURE, FREEWAY/EXPRESSWAY.

MODEL: Default
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TERRA ENGINEERING LTD.

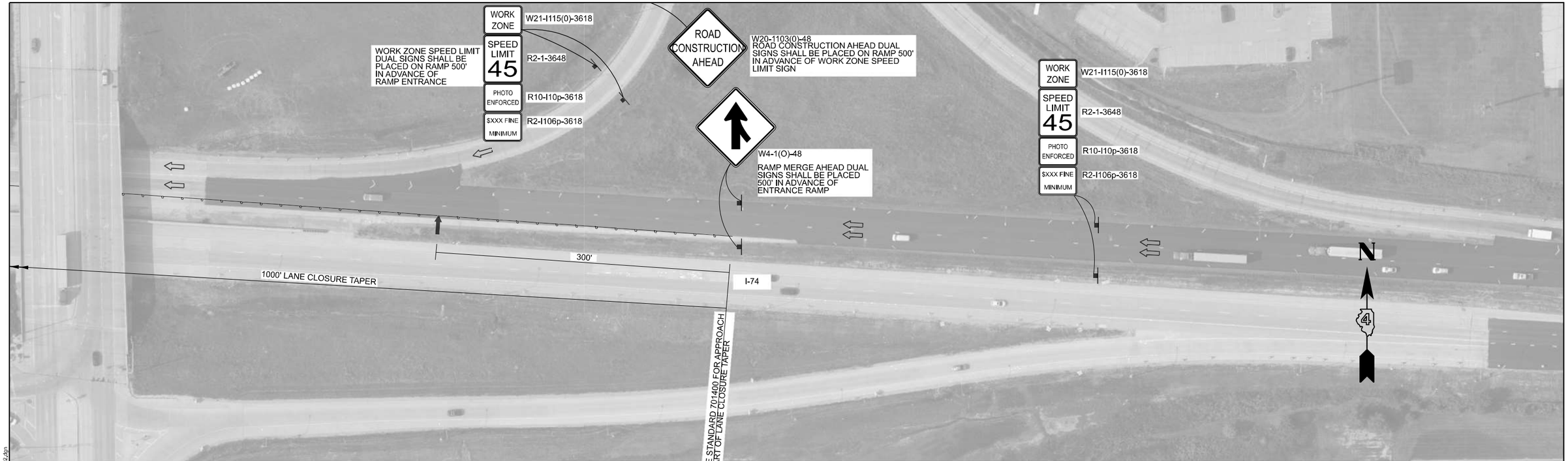
USER NAME = brennaa	DESIGNED -	REVISED -	
	DRAWN -	REVISED -	
PLOT SCALE = 100.376 ' / in.	CHECKED -	REVISED -	
PLOT DATE = 3/4/2024	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STAGE 2 TRAFFIC CONTROL
WB I-74 OVER US 150 (LOCATION 2)

SCALE: 1"=20' | SHEET 11 OF 21 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	90[(14)I-6;15-1)PP-1]	TAZEWELL	31	18
		CONTRACT NO. 68H82		
		ILLINOIS FED. AID PROJECT		



LEGEND

- ARROW BOARD
- CONE, DRUM OR BARRICADE
- SIGN ON PORTABLE OR PERMANENT SUPPORT
- WORK AREA

TRAFFIC CONTROL DEVICES AND SIGNS SHALL BE PLACED IN ACCORDANCE WITH HIGHWAY STANDARDS 701400-12, APPROACH TO LANE CLOSURE, FREEWAY/EXPRESSWAY, 701411-09, LANE CLOSURE, MULTILANE, AT ENTRANCE OR EXIT RAMP, FOR SPEEDS GREATER THAN OR EQUAL TO 45 MPH, AND 701446-11, TWO LANE CLOSURE, FREEWAY/EXPRESSWAY.

MODEL: Default
FILE NAME: pw://terraengpw.bentley.com:terraengpw-01/Documents/Projects/2022/22-129 IDOT D4 Work Orders/22-129-4/21 D4 Three Structures/CADD Data/Sheets/0904189J74 over US150/221129021-0603169-SH1-STAGE 2-02.dgn

TERRA ENGINEERING LTD.

USER NAME = brennaa	DESIGNED -	REVISED -	
	DRAWN -	REVISED -	
PLOT SCALE = 100.163 ' / in.	CHECKED -	REVISED -	
PLOT DATE = 3/4/2024	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STAGE 2 TRAFFIC CONTROL
WB I-74 OVER US 150 (LOCATION 2)

SCALE: 1"=20' | SHEET 12 OF 21 SHEETS | STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	90[(14)I-6;15-1)PP-1]	TAZEWELL	31	19

CONTRACT NO. 68H82

ILLINOIS | FED. AID PROJECT

NOTES:

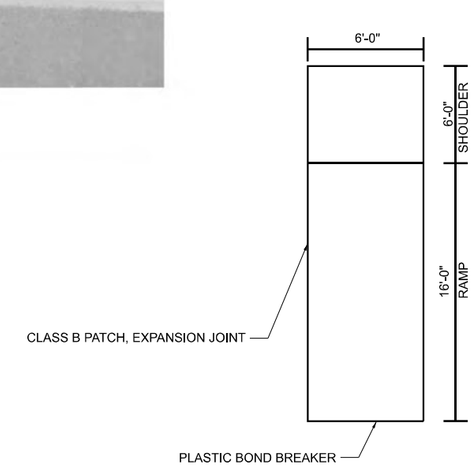
SEE EXISTING PLAN SHEETS PROVIDED FOR INFORMATION FOR PAVEMENT STATIONING AND PAVEMENT AND SHOULDER TYPICAL SECTIONS.

CLASS B PATCH, DOWEL AND TIE BARS SHALL BE PLACED IN ACCORDANCE WITH HIGHWAY STANDARD 442101-09, CLASS B PATCHES.

EXPANSION JOINT SHALL BE PLACED ON ROADWAY AND SHOULDER IN ACCORDANCE WITH HIGHWAY STANDARDS 420001-10, PAVEMENT JOINTS, TRANSVERSE EXPANSION JOINT, AND 442101-09, CLASS B PATCHES.

THE CONTRACTOR SHALL COAT THE FACES OF EXPOSED CRC REINFORCEMENT WITH EPOXY PRIOR TO CONCRETE PLACEMENT. THIS WORK WILL BE INCLUDED IN THE COST OF THIS WORK ITEM.

THE CONTRACTOR SHALL PLACE A PLASTIC BOND BREAKER AT THE RAMP PAVEMENT EDGE. THIS WORK WILL BE INCLUDED IN THE COST OF THIS WORK ITEM.



PATCH DETAIL A

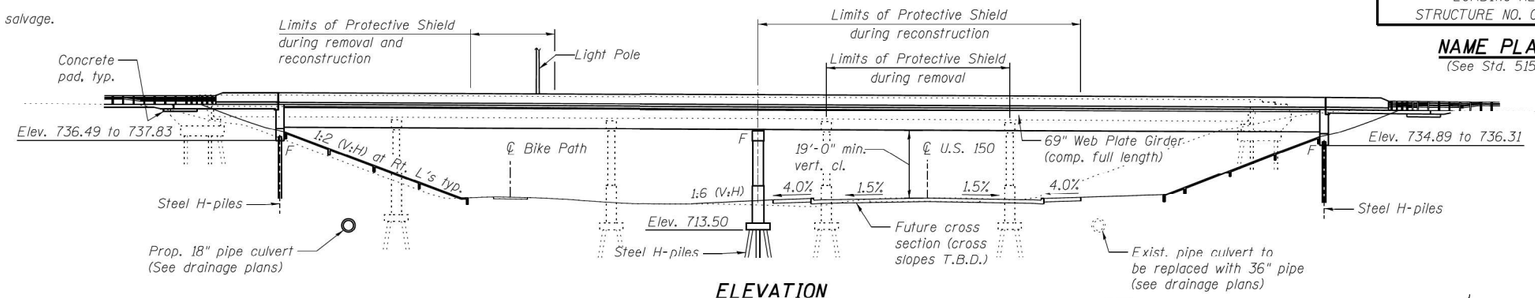
MODEL: Default
FILE NAME: pw://terrainpw.bentley.com:terrainpw-01/Documents/Projects/2022/22-129 IDOT D4 Work Orders/22-129-021 D4 Three Structures\CADD Data\Sheets\090-0169-I74 over US150\2212902-090016 9-SHT-STAGE 1-02.dgn

TERRA ENGINEERING LTD.	USER NAME = brennaa	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CLASS B PATCH DETAIL WB I-74 OVER US 150 (LOCATION 2)	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS / SHEET NO.
		DRAWN -	REVISED -			74	90[(14)I-6;15-1)PP-1]	TAZEWELL	31 / 20
	PLOT SCALE = 50.000 ' / in.	CHECKED -	REVISED -					CONTRACT NO. 68H82	
	PLOT DATE = 3/5/2024	DATE -	REVISED -		SCALE: SHEET 13 OF 21 SHEETS STA. TO STA.		ILLINOIS	FED. AID PROJECT	

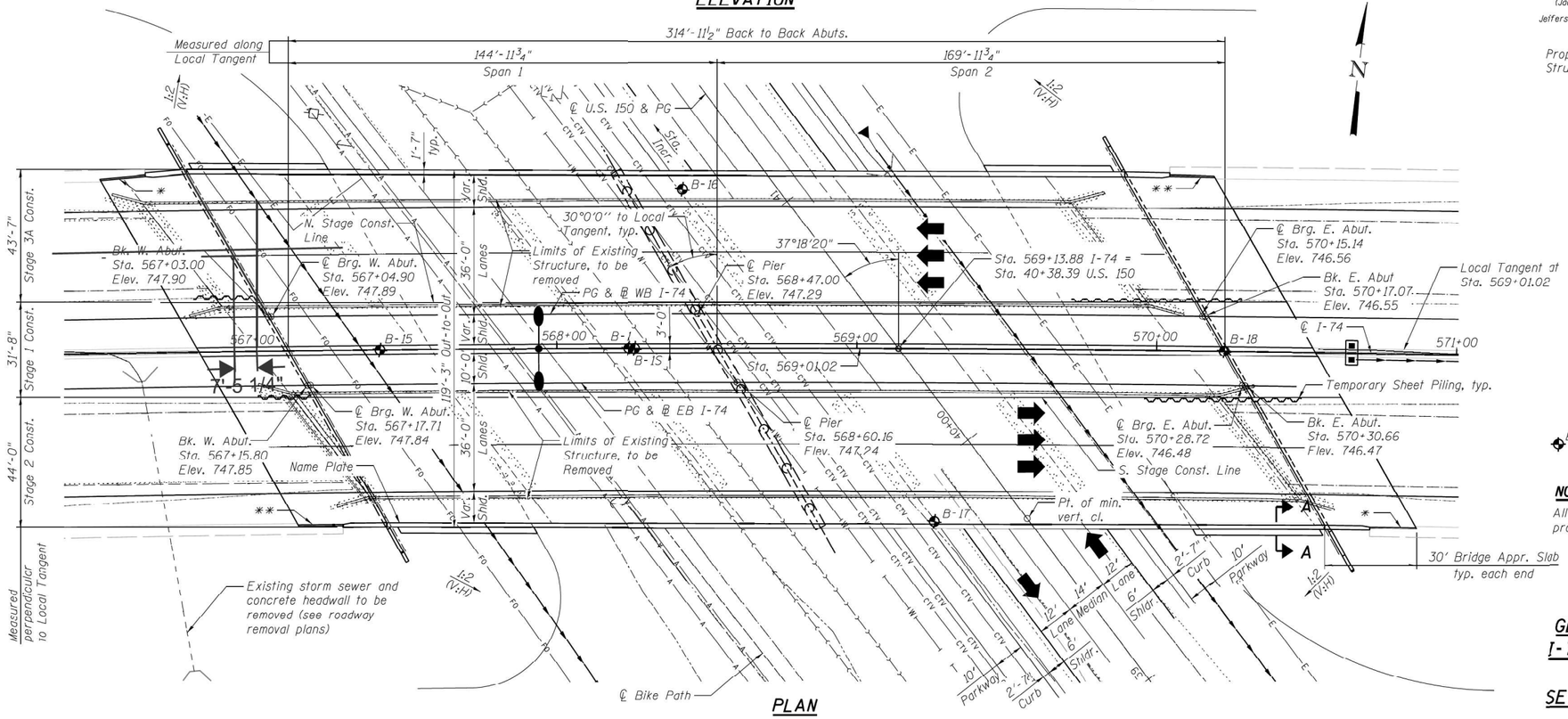
Bench Mark: Chiseled "□" on S.W. parapet of E.B.L. I-74 bridge over U.S. Route 150 (S.N. 090-0018), Elevation 749.62.

Existing Structures: S.N. 090-0017 (WB) and S.N. 090-0018 (EB). Built in 1961 as F.A.I. Route 74 over U.S. 150 & I.T.R.R., Section 90-14-HVB. Structures consist of dual 5 span WF superstructures, continuous from the West Abutment to Pier 4 and simple between Pier 4 and East Abutment. Substructures are reinforced concrete frame piers on piles and pile bent abutments. The existing total bridge lengths are 312'-2¼" (WB) and 313'-1¾" (EB) back to back of abutments measured along the profile grade lines. The superstructure widths are 36'-0" out-to-out measured radially. The Contractor shall remove and replace these bridges with a two-span steel plate girder structure under stage construction. One lane in each direction on U.S. 150 and Bike Path shall be maintained during construction. I-74 traffic to be maintained with two lanes in each direction utilizing crossovers. Jefferson Street shall be detoured during construction.

No salvage.



ELEVATION



PLAN

THIS SHEET PROVIDED FOR INFORMATION ONLY

Traffic Barrier Terminals
*Std. 631026 Type 5
**Std. 631031 Type 6

STATION 569+13.88
BUILT 20__ BY
STATE OF ILLINOIS
F.A.I. RTE. 74
SEC. 90-[14R;(14HB-4,14,14HVB)BR]
LOADING HL-93
STRUCTURE NO. 090-0169

NAME PLATE
(See Std. 515001)

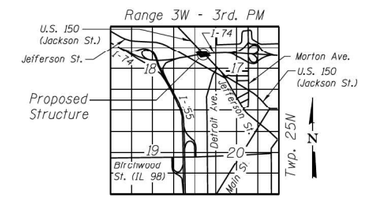
LOADING HL-93
Allow 50#/sq. ft. for future wearing surface.

DESIGN SPECIFICATIONS
2010 AASHTO LRFD Bridge Design Specifications with 2010 Interims

DESIGN STRESSES
FIELD UNITS

f'c = 3,500 psi
fy = 60,000 psi (Reinforcement)
fy = 50,000 psi (M270 Grade 50)
fy = 36,000 psi (M270 Grade 36)

SEISMIC DATA
Seismic Performance Zone (SPZ) = 1
Design Spectral Acceleration at 1.0 sec. (S_{D1}) = 0.115g
Design Spectral Acceleration at 0.2 sec. (S_{DS}) = 0.183g
Soil Site Class = D



LOCATION SKETCH

MARK R. BENDOK
081-006516
LICENSED STRUCTURAL ENGINEER
STATE OF ILLINOIS

EXPIRATION DATE 11-30-2012
DATE: _____

B-15 Indicates Soil Boring Location and Number

NOTE:
All existing utilities that interfere with proposed work shall be relocated.

GENERAL PLAN AND ELEVATION
I-74 OVER U.S. 150 (JACKSON ST.)
F.A.I. RTE. 74
SEC. 90-[14R;(14HB-4,14,14HVB)BR]
TAZEWELL COUNTY
STATION 569+13.88
STRUCTURE NO. 090-0169

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Alfred Benesch & Company
205 North Michigan Avenue, Suite 2400
Chicago, Illinois 60601
312-565-0450 Job No. 10056

FILE NAME = 0900169_68620_01_gpe.dgn	USER NAME = mbecker	DESIGNED - MFB/DTS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	GENERAL PLAN AND ELEVATION STRUCTURE NO. 090-0169	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS / SHEET NO.
		CHECKED - MRB/AAY	REVISED -			74	90-[14R;(14HB-4,14,14HVB)BR]	TAZEWELL	2433 / 1977
	PLOT SCALE =	DRAWN - PRT	REVISED -					CONTRACT NO. 68620	
	PLOT DATE = 7/17/2012	CHECKED - MRB	REVISED -		SHEET NO. SC1 OF SC63 SHEETS			ILLINOIS FED. AID PROJECT	

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		DRAWN -	REVISED -			74	90[(14)I-6;15-1)PP-1]	TAZEWELL	31 / 21
	PLOT SCALE = 2.000 ' / in.	CHECKED - CEM	REVISED -					CONTRACT NO. 68H82	
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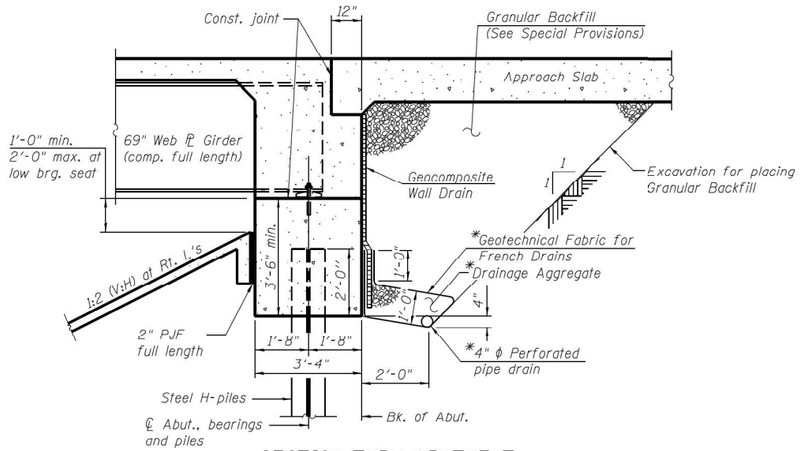
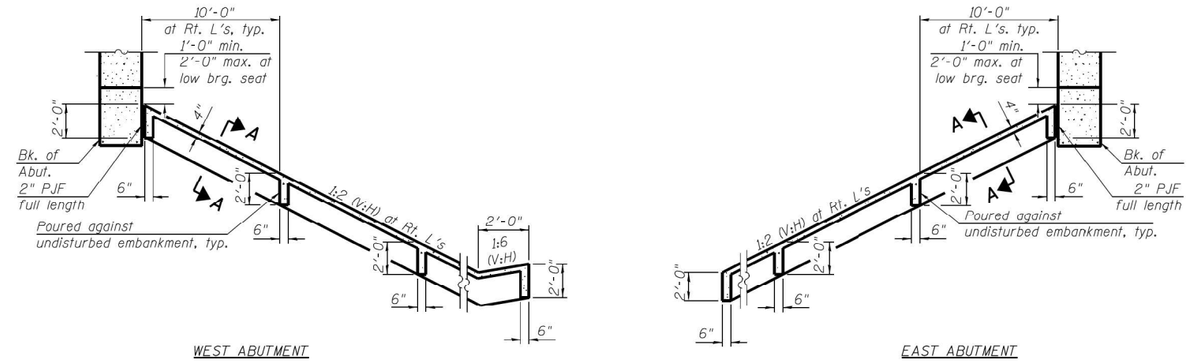


SECTION THRU ABUTMENT

(Horiz. dim. at Rt. L's)

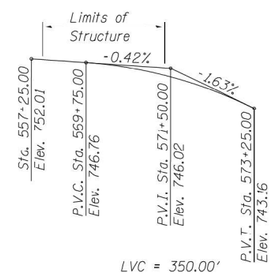
*Included in the cost of Pipe Underdrains for Structures.

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).



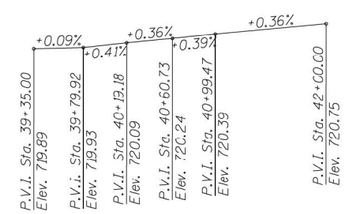
SLOPEWALL DETAILS

(Slopewall shall be reinforced with welded wire fabric, 6 in. x 6 in. - W4.0 x W4.0, weighing 58 lbs. per 100 sq. ft.)



PROFILE GRADE

(℄ I-74 EB & WB)

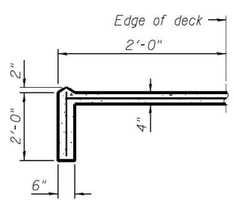


PROFILE GRADE

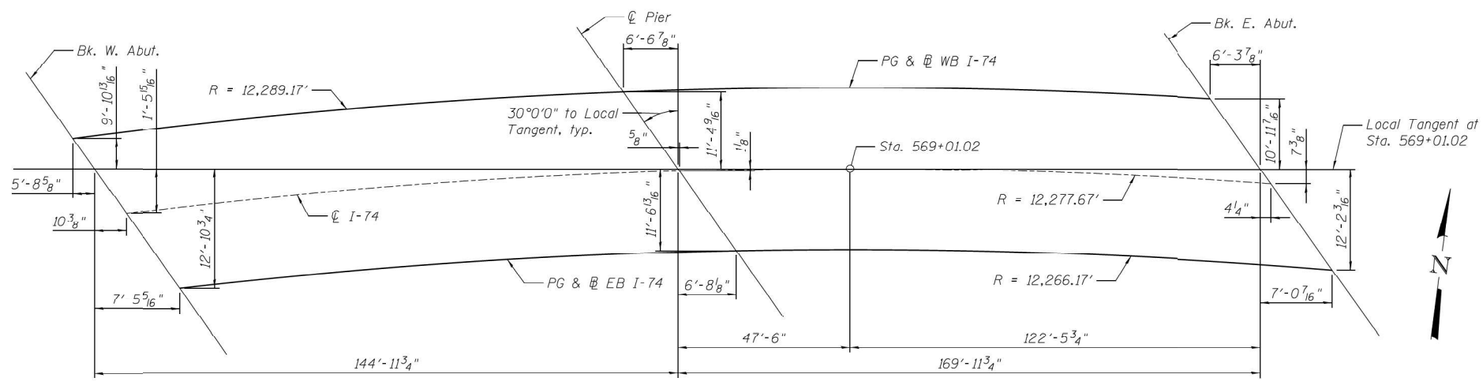
(℄ US 150)

CURVE DATA ℄ I-74

Δ = 13°36'59" (RT)
D = 0°28'00"
T = 1,465.80'
L = 2,917.79'
F = 87.19'
R = 12,277.67'
S.E. = RC
P.C. = Sta. 562+26.87
P.T. = Sta. 591+44.66
P.I. = Sta. 576+92.67



SECTION A-A



OFFSET SKETCH

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Chicago, Illinois 60601
312-565-0450 Job No. 10056

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		CHECKED - MRB/AAY	REVISED -			74	90-[14R;(14HB-4,14,14HVB)BR]	TAZEWELL	2433 / 1979
	PLOT SCALE =	DRAWN - MFB	REVISED -					CONTRACT NO. 68620	
	PLOT DATE = 7/16/2012	CHECKED - MRB	REVISED -		SHEET NO. SC3 OF SC63 SHEETS		ILLINOIS	FED. AID PROJECT	

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TERRA ENGINEERING LTD.	USER NAME = brennaa	DESIGNED - BKR	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	GPE INFORMATION ONLY WB I-74 OVER US 150 (LOCATION 2)	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS / SHEET NO.
		DRAWN -	REVISED -			74	90[(14)I-6;15-1)PP-1]	TAZEWELL	31 / 22
	PLOT SCALE = 2,000 ' / in.	CHECKED - CEM	REVISED -					CONTRACT NO. 68H82	
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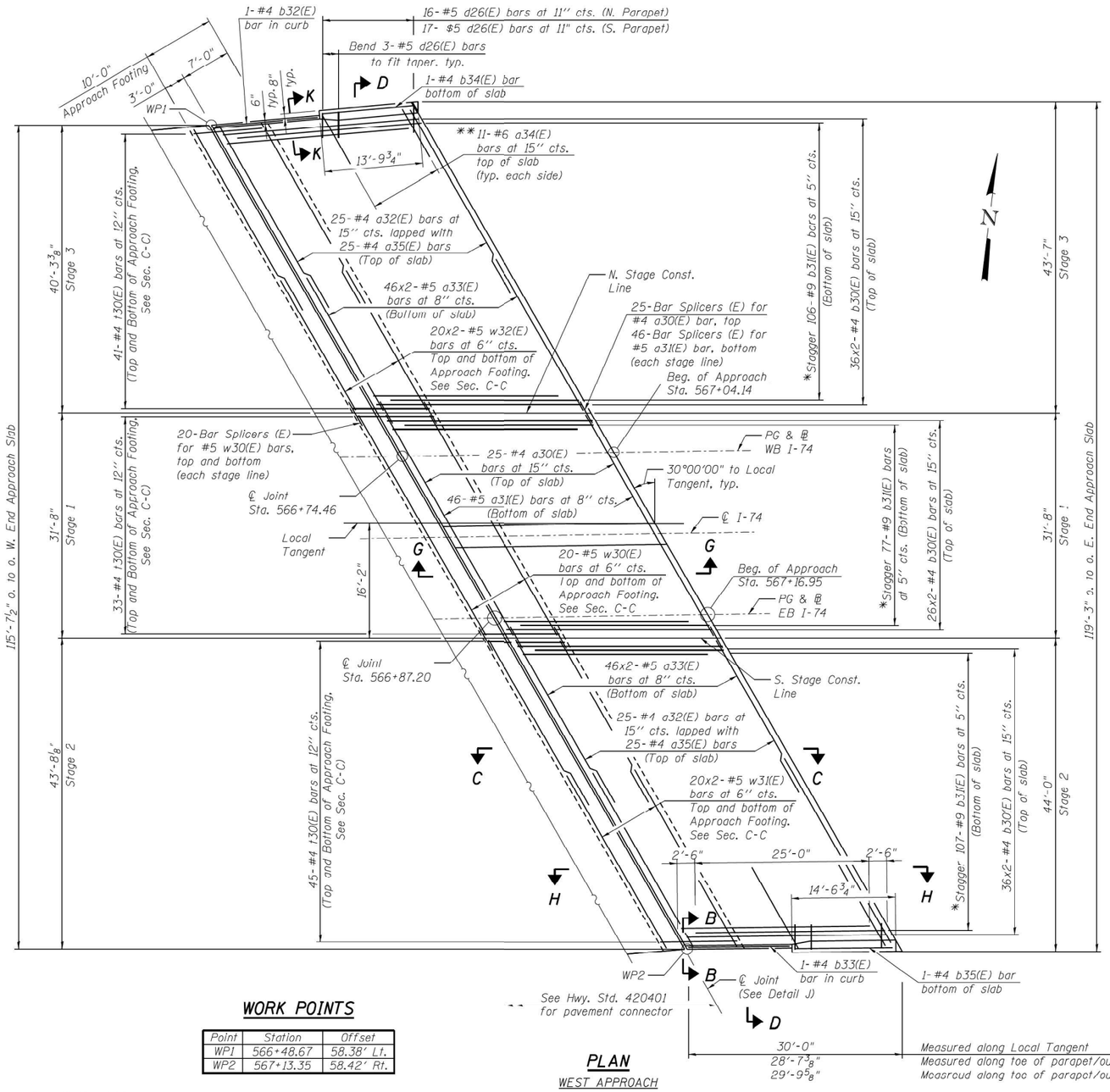


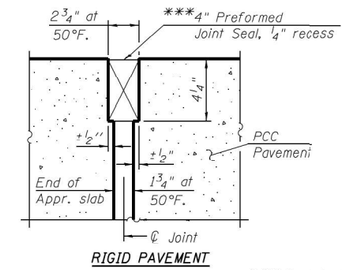
PLAN

WEST APPROACH

* Tilt #9 b31(E) bars as required to maintain clearance.
** Space between a32(E) bars, typ. each parapet.

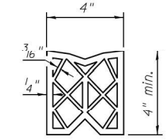
WORK POINTS

Point	Station	Offset
WP1	566+48.67	58.38' Lt.
WP2	567+13.35	58.42' Rt.



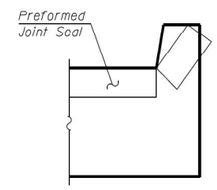
RIGID PAVEMENT

DETAIL J



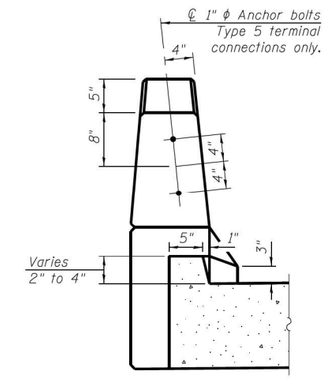
PREFORMED JOINT SEAL

*** Cost included with Concrete Superstructure



VIEW B-B

Angle Preformed Joint Seal at 45° at curbs when req'd for drainage.



VIEW K-K

MINIMUM BAR LAP

(Approach Slab)

#4 bar = 2'-7"
#5 bar = 3'-3"

NOTES:

1. See sheet SC27 for Sections and Views shown in Plan.
2. a30(E) thru a33(E) bars are spaced along Local Tangent.
3. b30(E) and b31(E) bars are spaced perpendicular to Local Tangent.
4. t30(E) bars are spaced along skew of approach footing.
5. Bars indicated thus 20x2-#5 etc. indicate 20 lines of bars with 2 lengths per line.
6. Stations and offsets are measured from ℄ I-74.

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		CHECKED - AAY/MRB	REVISED -
	PLOT SCALE =	DRAWN - PRT	REVISED -
	PLOT DATE = 7/16/2012	CHECKED - AAY	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BRIDGE APPROACH SLAB DETAILS 1 OF 3
STRUCTURE NO. 090-0169
SHEET NO. SC25 OF SC63 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	90-(14R;(14HB-4,14,14HVB)BR)	TAZEWELL	2433	2001
		CONTRACT NO. 68620		
		ILLINOIS FED. AID PROJECT		

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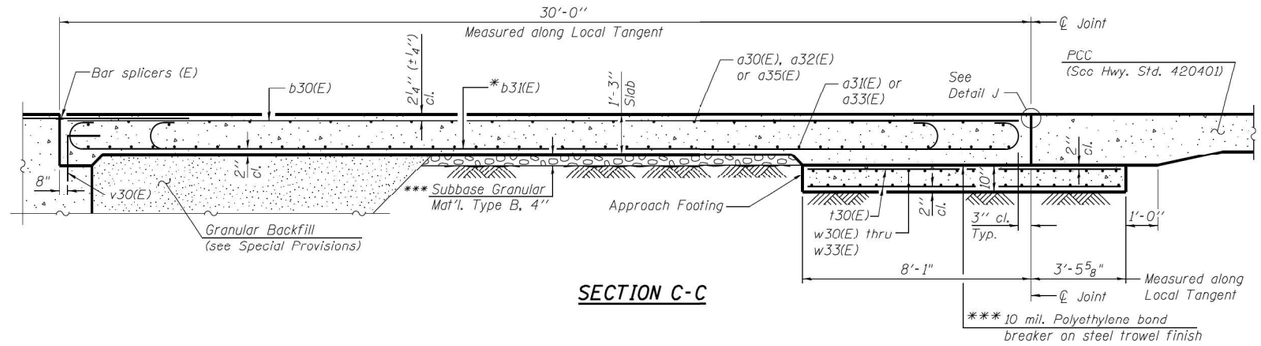
USER NAME = brennaa	DESIGNED - BKR	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 2.000 ' / in.	CHECKED - CEM	REVISED -
PLOT DATE = 1/3/2024	DATE - 2023/11/01	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BRIDGE APPROACH SLAB DETAILS INFORMATION ONLY
WB I-74 OVER US 150 (LOCATION 2)

SCALE: SHEET 16 OF 21 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	90[(14)I-6;15-1)PP-1]	TAZEWELL	31	23
		CONTRACT NO. 68H82		
		ILLINOIS FED. AID PROJECT		



SECTION C-C

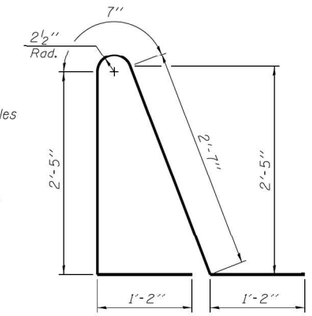
NOTES:

1. See sheet SC25 for View B-B, Detail J and View K-K.
2. Approach slab and parapet concrete shall be paid for as Concrete Superstructure.
3. Approach footing concrete shall be paid for as Concrete Structures.
4. Reinforcement shall be paid for as Reinforcement Bars, Epoxy Coated.
5. For d20(E), d22(E), d23(E) and v30(E) bar details, see sheet SC21.
6. The approach footing maximum applied service bearing pressure (Qmax) = 2.0 ksf.
7. For bar splicer details, see sheet SC44.
8. Cost of excavation for approach footing included with Concrete Structures.
9. For Granular Backfill and drainage treatment details, see sheet SC3.
10. For additional parapet and median barrier details, see sheets SC21 and SC22.

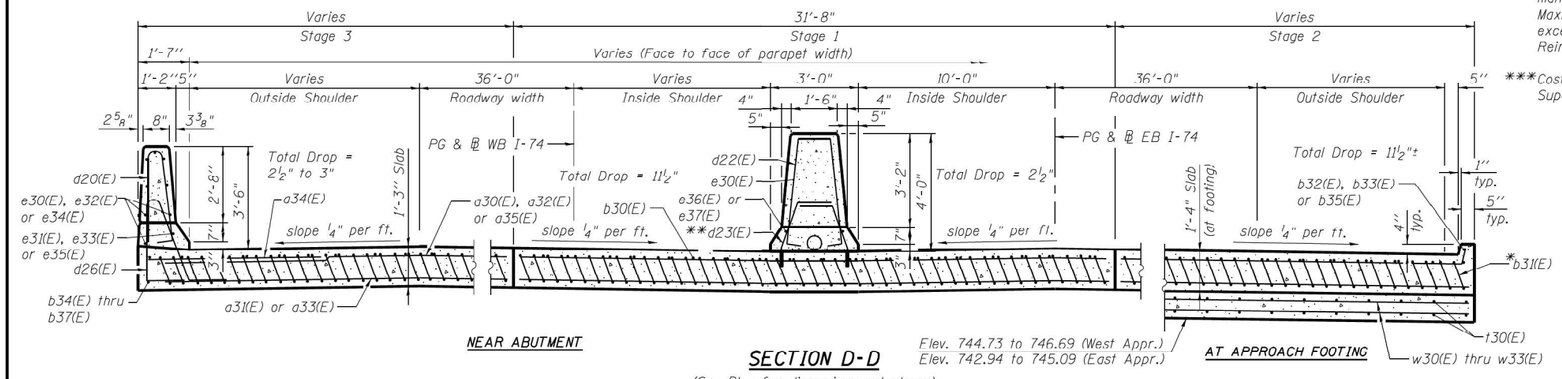
*Tilt #9 b31(E) bars as required to maintain clearance.

**Core and set #5 d23(E) bars according to Article 509.06 of the Standard Specifications. Cored holes shall be roughened or scored per manufacturer's recommendations. Maximum depth of hole shall not exceed 6". Cost to be included in Reinforcement Bars, Epoxy Coated.

***Cost included with Concrete Superstructure.



BAR d26(E)



NEAR ABUTMENT

SECTION D-D

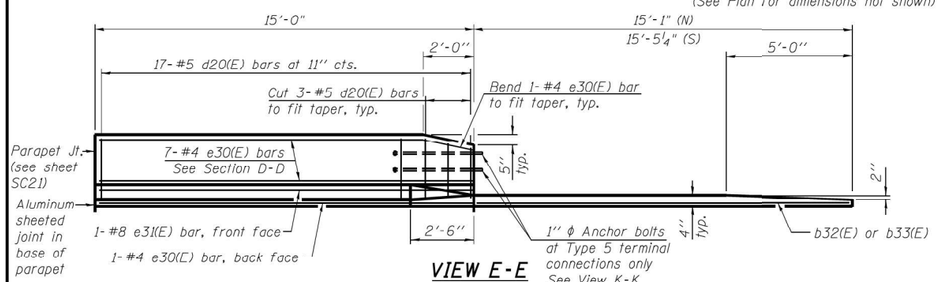
(See Plan for dimensions not shown)

Elev. 744.73 to 746.69 (West Appr.)
Elev. 742.94 to 745.09 (East Appr.)

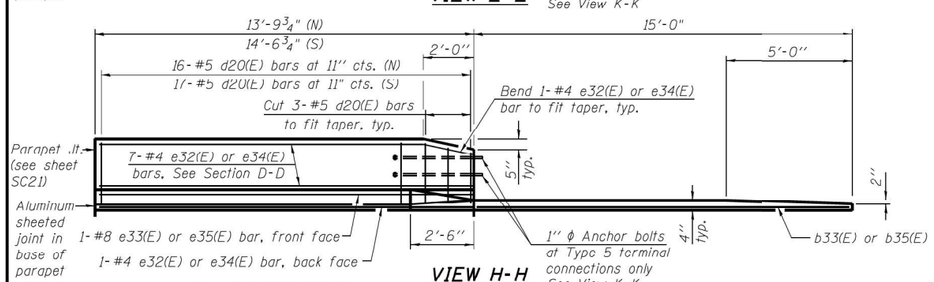
AT APPROACH FOOTING

TWO APPROACHES BILL OF MATERIAL

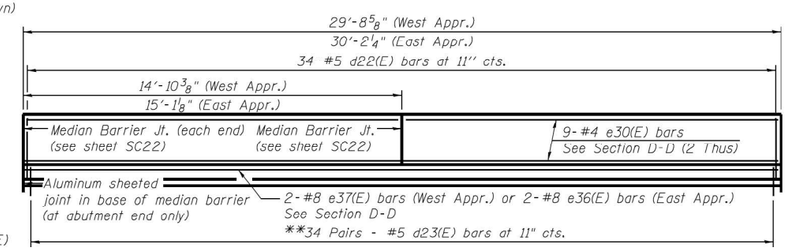
Bar	No.	Size	Length	Shape
a30(E)	50	#4	36'-3"	
a31(E)	92	#5	36'-3"	
a32(E)	100	#4	27'-2"	
a33(E)	368	#5	27'-0"	
a34(E)	46	#6	6'-6"	
a35(E)	100	#4	26'-9"	
b30(E)	392	#4	16'-6"	
b31(E)	580	#9	30'-3"	
b32(E)	1	#4	14'-8"	
b33(E)	2	#4	14'-5"	
b34(E)	1	#4	12'-8"	
b35(E)	2	#4	15'-0"	
b36(E)	1	#4	15'-7"	
b37(E)	1	#4	13'-9"	
d20(E)	67	#5	6'-10"	
d22(E)	68	#5	9'-3"	
d23(E)	136	#5	3'-5"	
d26(E)	67	#5	7'-11"	
e30(E)	52	#4	14'-8"	
e31(E)	2	#8	14'-8"	
e32(C)	8	#4	14'-3"	
e33(E)	1	#8	14'-3"	
e34(E)	8	#4	13'-6"	
e35(E)	1	#8	13'-6"	
e36(E)	2	#8	29'-8"	
e37(E)	2	#8	29'-4"	
t30(E)	484	#4	11'-3"	
w30(E)	80	#5	36'-3"	
w31(E)	160	#5	26'-9"	
w32(E)	80	#5	24'-9"	
w33(E)	80	#5	26'-0"	
Concrete Superstructure			Cu. Yd.	360.5
Concrete Structures			Cu. Yd.	83.3
Reinforcement Bars, Epoxy Coated			Pound	77,920



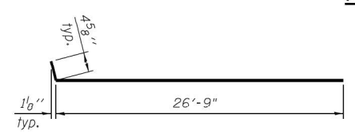
VIEW E-E



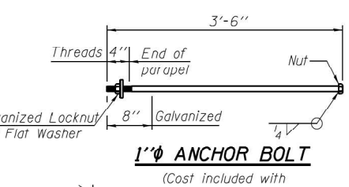
VIEW H-H



VIEW G-G

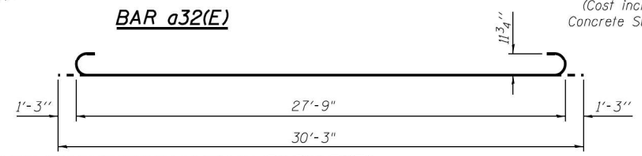


BAR a32(E)



1"ϕ ANCHOR BOLT

(Cost included with Concrete Superstructure)



BAR b31(E)

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		CHECKED - AAY/MRB	REVISED -
	PLOT SCALE =	DRAWN - PRT	REVISED -
	PLOT DATE = 7/16/2012	CHECKED - AAY	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BRIDGE APPROACH SLAB DETAILS 3 OF 3
STRUCTURE NO. 090-0169
SHEET NO. SC27 OF SC63 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	90-[14R;(14HB-4,14,14HVB)BR]	TAZEWELL	2433	2003
		CONTRACT NO. 68620		
		ILLINOIS FED. AID PROJECT		

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USER NAME = brennaa	DESIGNED - BKR	REVISED -	
	DRAWN -	REVISED -	
PLOT SCALE = 2.000' / in.	CHECKED - CEM	REVISED -	
PLOT DATE = 1/3/2024	DATE - 2023/11/01	REVISED -	

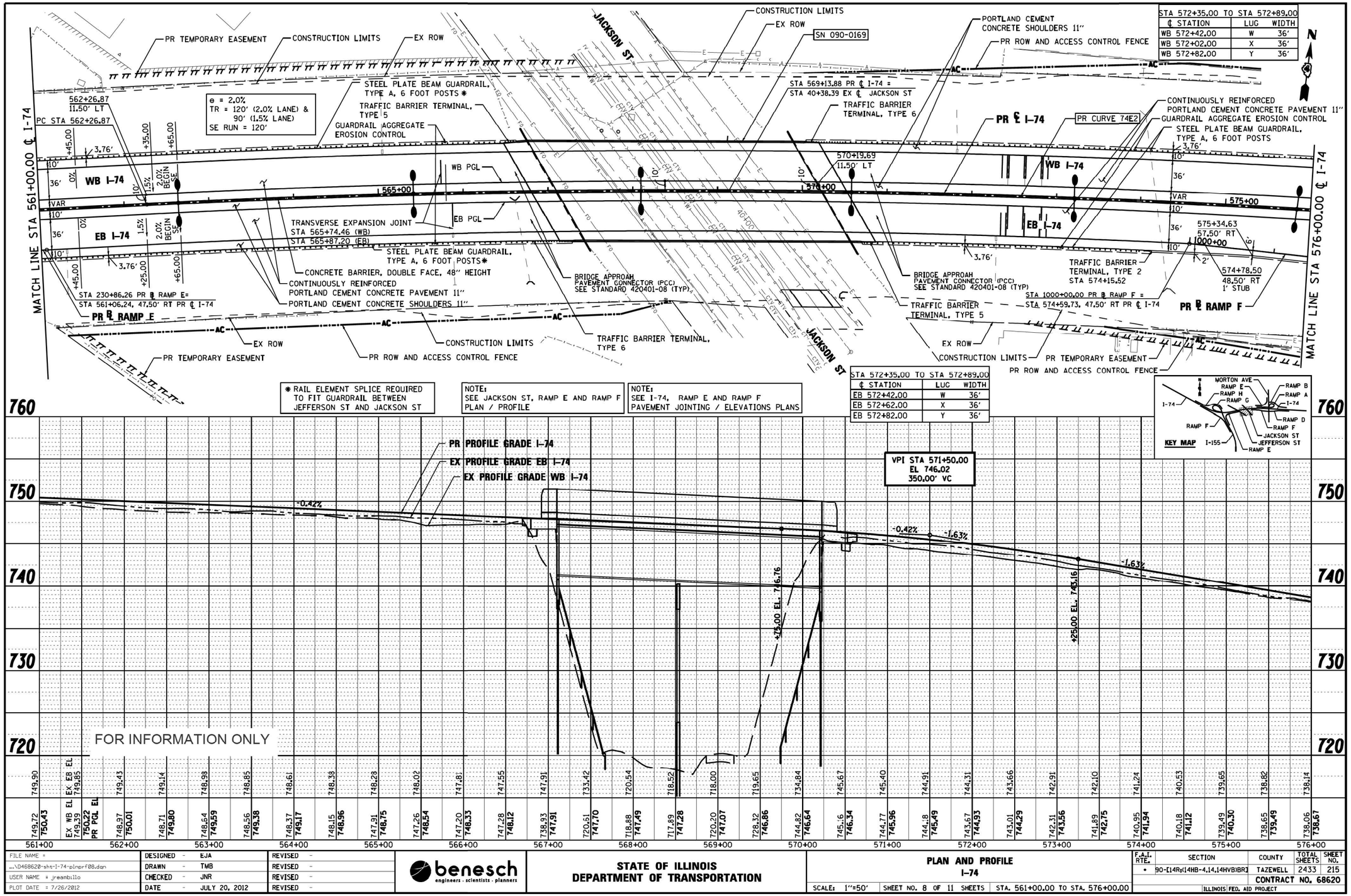
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BRIDGE APPROACH SLAB DETAILS INFORMATION ONLY
WB I-74 OVER US 150 (LOCATION 2)

SCALE: SHEET 17 OF 21 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	90[(14)I-6;15-1)PP-1]	TAZEWELL	31	24
		CONTRACT NO. 68H82		
		ILLINOIS FED. AID PROJECT		

MODEL: Default
FILE NAME: pw://terraeng-pw.bentley.com:terraeng-pw-01/Documents/Projects/2022222-29 IDOT D4 Work Orders/22-129-0121 D4 Three Structures/CADD Data/Sheets/0904169-174 over US150/219202-1-072201 2-SHT-2ArdAppr SlbAr(loc-2).dgn



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USER NAME = jreambillo	CHECKED - JNR	REVISED -
PLOT DATE = 7/26/2012	DATE - JULY 20, 2012	REVISED -

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PLAN AND PROFILE
I-74

SCALE: 1"=50' | SHEET NO. 8 OF 11 SHEETS | STA. 561+00.00 TO STA. 576+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
•	90-[14R;(14HB-4,14,14HVB)BR]	TAZEWELL	2433	215
		CONTRACT NO. 68620		
		ILLINOIS FED. AID PROJECT		

• 74 & 155

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USER NAME = brennaa	DESIGNED - BKR	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 2.000 ' / in.	CHECKED - CEM	REVISED -
PLOT DATE = 1/3/2024	DATE - 2023/11/01	REVISED -

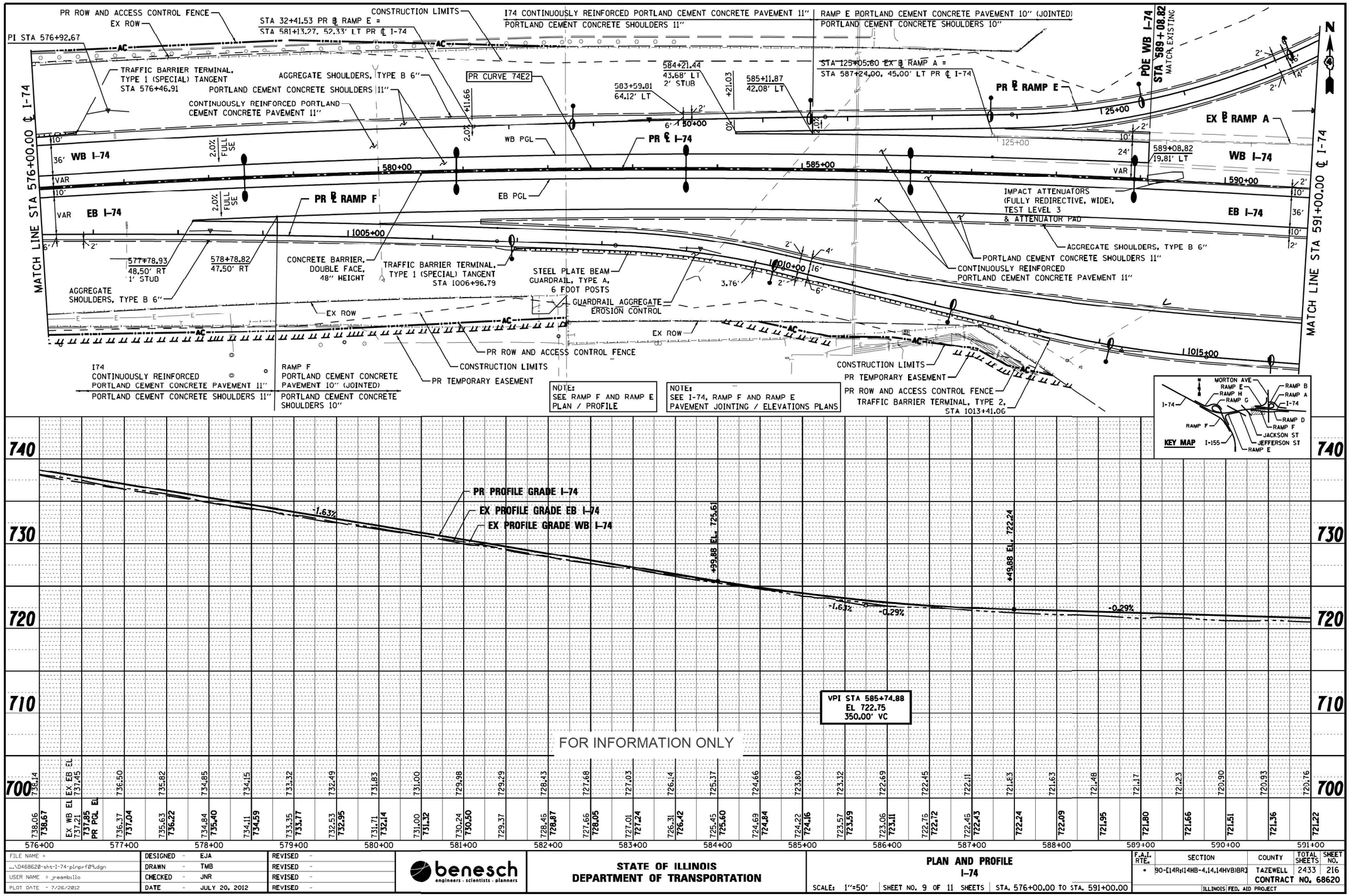
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PLAN AND PROFILE INFORMATION ONLY
WB I-74 OVER US 150 (LOCATION 2)

SCALE: | SHEET 18 OF 21 SHEETS | STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	90[(14)I-6;15-1)PP-1]	TAZEWELL	31	25
		CONTRACT NO. 68H82		
		ILLINOIS FED. AID PROJECT		

MODEL: Default
FILE NAME: pw://terraengpw.bentley.com:terraengpw01/Documents/Projects/2022/22-4291 D4 Three Structures/CADD Data/Sheets/09h-D468474 over US150/2119202-4072201-2-SHT-4-PlPlnProf08.dgn



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USER NAME = jreambillo	CHECKED - JNR	REVISED -
PLOT DATE - 7/26/2012	DATE - JULY 20, 2012	REVISED -

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PLAN AND PROFILE
I-74

SCALE: 1"=50' | SHEET NO. 9 OF 11 SHEETS | STA. 576+00.00 TO STA. 591+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
•	90-[14Rr(14HB-4,14,14HVB)BR]	TAZEWELL	2433	216
		CONTRACT NO. 68620		
		ILLINOIS FED. AID PROJECT		

• 74 & 155

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

PROFILE: SURVEYED / PLOTTED / GRADES CHECKED / B.M. NOTED / STRUCTURE NOTATNS CH'KD — BY — DATE — NOTE BOOK — NO.

MODEL: Default
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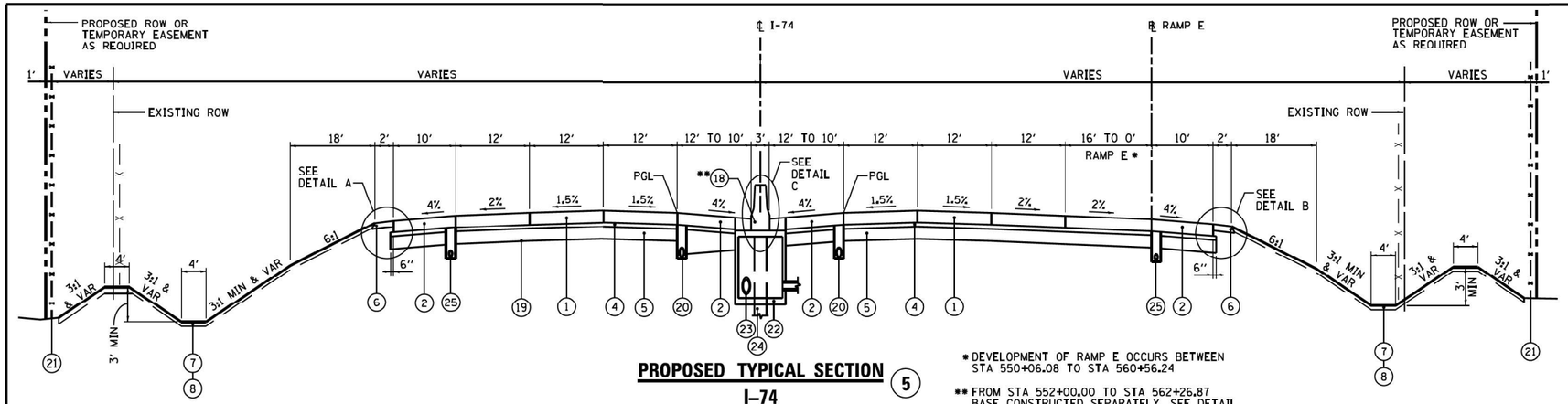
USER NAME = brennaa	DESIGNED - BKR	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 2,000 ' / in.	CHECKED - CEM	REVISED -
PLOT DATE = 3/5/2024	DATE - 2023/11/01	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

RAMP E PLAN AND PROFILE– INFORMATION ONLY
WB I-74 OVER US 150 (LOCATION 2)

SCALE: | SHEET 19 OF 21 SHEETS | STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	90[(14)I-6;15-1)PP-1]	TAZEWELL	31	26
		CONTRACT NO. 68H82		
		ILLINOIS FED. AID PROJECT		

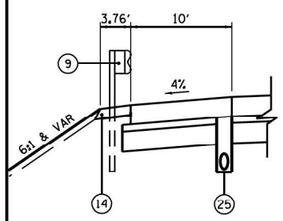


PROPOSED TYPICAL SECTION 5
I–74

STA 548+84.59 TO STA 562+26.87
BRIDGE OMISSION
STA 558+10.07 TO STA 559+40.49

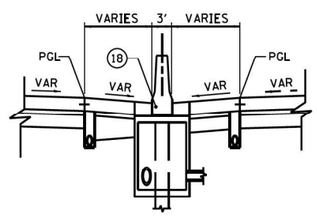
*DEVELOPMENT OF RAMP E OCCURS BETWEEN STA 550+06.08 TO STA 560+56.24

** FROM STA 552+00.00 TO STA 562+26.87 BASE CONSTRUCTED SEPARATELY. SEE DETAIL.



DETAIL A

STA 555+78.55 TO STA 557+20.37
STA 558+79.50 TO STA 566+62.55
STA 570+01.61 TO STA 576+46.91



DETAIL C

STA 521+00.00 TO STA 561+00

PAVEMENT DESIGN I–74

STRUCTURAL DESIGN TRAFFIC: Year 2024

PV = 47,366 SU = 1,361 SU = 6,594

ROAD CLASSIFICATION CLASS I

PERCENT OF STRUCTURAL DESIGN TRAFFIC IN DESIGN LANE:

P = 20% S = 40% M = 40%

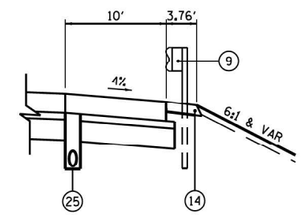
TRAFFIC FACTOR: Actual TF = 38.33 AC Type = N/A

Minimum TF = 8.93

PG GRADE: Binder = N/A Surface = N/A

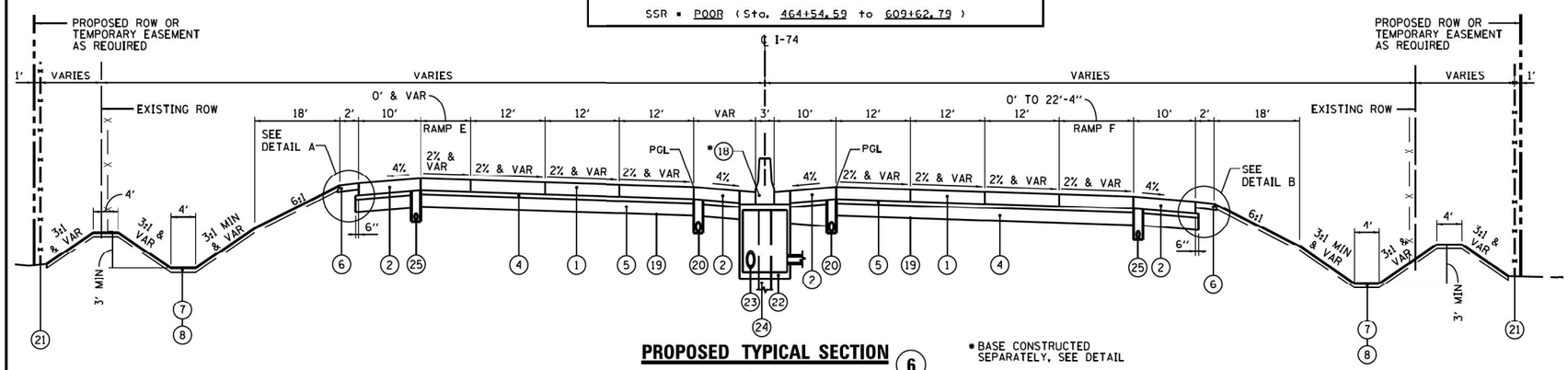
SUBGRADE SUPPORT RATING:

SSR = POOR (Sta. 464+54.59 to 609+62.79)



DETAIL B

STA 553+84.50 TO STA 558+70.44
STA 560+29.65 TO STA 567+30.30
STA 570+72.07 TO STA 574+15.52



PROPOSED TYPICAL SECTION 6
I–74

STA 562+26.87 TO STA 585+11.87 (WB)
STA 562+26.87 TO STA 578+78.82(EB)
BEGIN TR 2.0% LANE AT PC STA 560+25.00
BEGIN TR 1.5% LANE AT PC STA 560+55.00
BEGIN SE RUNOFF AT PC STA 561+45.00
END SE RUNOFF AT PC STA 562+65.00
BRIDGE OMISSION STA 567+10.54 TO STA 570+22.70

*BASE CONSTRUCTED SEPARATELY, SEE DETAIL

FOR INFORMATION ONLY

NOTE:
SUPER ELEVATION TRANSITION STATIONS SHOWN ARE FOR EB I-74. SEE DETAIL SHEET FOR FULL SE TRANSITION DETAILS.

PROPOSED LEGEND:

1. CONTINUOUSLY REINFORCED PORTLAND CEMENT CONCRETE PAVEMENT 11"
2. PORTLAND CEMENT CONCRETE SHOULDERS 11"
3. CONCRETE BARRIER, DOUBLE FACE, 42 INCH HEIGHT
4. STABILIZED SUBBASE - HOT-MIX ASPHALT, 4"
5. AGGREGATE SUBGRADE IMPROVEMENT 12"
6. AGGREGATE SHOULDERS, TYPE B 6"
7. TOPSOIL EXCAVATION AND PLACEMENT, 4"
8. SEEDING, CLASS _ (SEE EROSION AND SEDIMENT CONTROL PLANS)
9. STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS
10. PORTLAND CEMENT CONCRETE PAVEMENT 10 1/4" (JOINTED)
11. PORTLAND CEMENT CONCRETE PAVEMENT 10" (JOINTED)
12. PORTLAND CEMENT CONCRETE SHOULDERS 10 1/4"
13. PORTLAND CEMENT CONCRETE SHOULDERS 10"
14. GUARDRAIL AGGREGATE EROSION CONTROL
15. CONCRETE BARRIER, SINGLE FACE, 42 INCH HEIGHT
16. COMBINATION CONCRETE CURB & GUTTER, TYPE B-6.24
17. NOT USED
18. CONCRETE BARRIER, DOUBLE FACE, 48 INCH HEIGHT
19. GEOTECHNICAL FABRIC FOR GROUND STABILIZATION
20. PIPE UNDERDRAINS 6"
21. CHAIN LINK FENCE, 4'
22. DRAINAGE STRUCTURE - TYPE 4, TY20 GRATE
23. STORM SEWER (SIZE VARIES)
24. LIGHT POLE FOUNDATION (SEE LIGHTING PLANS)
25. PIPE UNDERDRAINS 4"

NOTE:
SEE CROSS SECTIONS FOR DETAILED GRADING

FILE NAME =	DESIGNED - EJA	REVISED -	
...\D468620-sht_Pr_Typ_I-74_03.dgn	DRAWN - TMB	REVISED -	
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PLOT DATE = 7/17/2012	DATE - JULY 20, 2012	REVISED -	

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED TYPICAL SECTIONS
I-74

SCALE: NTS | SHEET NO. 3 OF 4 SHEETS | STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	90-[14R;(14HB-4,14,14HVB)BR]	TAZEWELL	2433	53
		CONTRACT NO. 68620		
	ILLINOIS	FED. AID PROJECT		

* 74 & 155

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USER NAME = brennaa	DESIGNED - BKR	REVISED -	
	DRAWN -	REVISED -	
PLOT SCALE = 2.000 ' / in.	CHECKED - CEM	REVISED -	
PLOT DATE = 3/5/2024	DATE - 2023/11/01	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MAINLINE TYPICAL SECTION – INFORMATION ONLY
WB I–74 OVER US 150 (LOCATION 2)

SCALE: | SHEET 20 OF 21 SHEETS | STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	90[(14)I-6;15-1)PP-1]	TAZEWELL	31	27
		CONTRACT NO. 68H82		
	ILLINOIS	FED. AID PROJECT		

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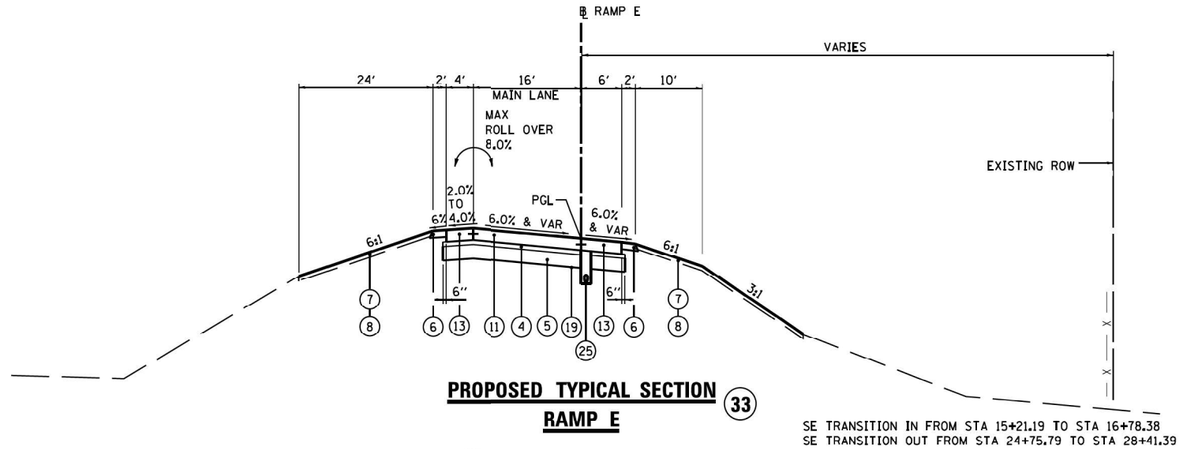
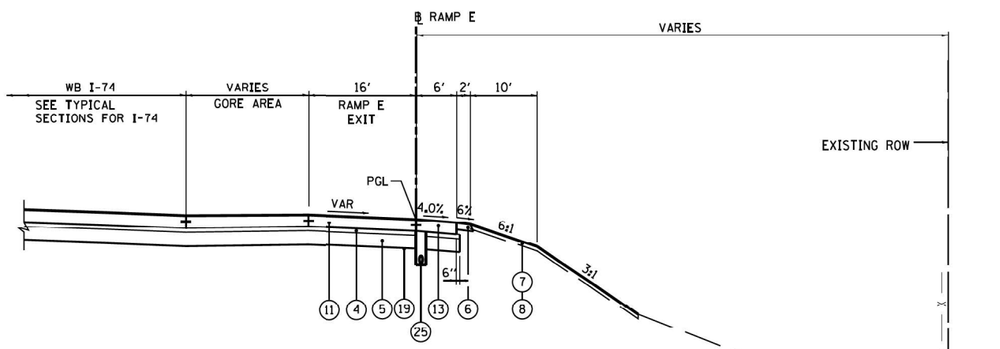


PROPOSED TYPICAL SECTION 33
RAMP E

STA 13+62.03 TO STA 26+05.79

SE TRANSITION IN FROM STA 15+21.19 TO STA 16+78.38
SE TRANSITION OUT FROM STA 24+75.79 TO STA 28+41.39



PROPOSED TYPICAL SECTION 34
RAMP E

STA 26+05.79 TO STA 28+41.39

PROPOSED LEGEND:

1. CONTINUOUSLY REINFORCED PORTLAND CEMENT CONCRETE PAVEMENT 11"
2. PORTLAND CEMENT CONCRETE SHOULDERS 11"
3. CONCRETE BARRIER, DOUBLE FACE, 42 INCH HEIGHT
4. STABILIZED SUBBASE - HOT-MIX ASPHALT, 4"
5. AGGREGATE SUBGRADE IMPROVEMENT 12"
6. AGGREGATE SHOULDERS, TYPE B 6"
7. TOPSOIL EXCAVATION AND PLACEMENT, 4"
8. SEEDING, CLASS _ (SEE EROSION AND SEDIMENT CONTROL PLANS)
9. STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS
10. PORTLAND CEMENT CONCRETE PAVEMENT 10 1/4" (JOINTED)
11. PORTLAND CEMENT CONCRETE PAVEMENT 10" (JOINTED)
12. PORTLAND CEMENT CONCRETE SHOULDERS 10 1/4"
13. PORTLAND CEMENT CONCRETE SHOULDERS 10"
14. GUARDRAIL AGGREGATE EROSION CONTROL
15. CONCRETE BARRIER, SINGLE FACE, 42 INCH HEIGHT
16. COMBINATION CONCRETE CURB & GUTTER, TYPE B-6.24
17. NOT USED
18. CONCRETE BARRIER, DOUBLE FACE, 48 INCH HEIGHT
19. GEOTECHNICAL FABRIC FOR GROUND STABILIZATION
20. PIPE UNDERDRAINS 6"
21. CHAIN LINK FENCE, 4'
22. DRAINAGE STRUCTURE - TYPE 4, TY20 GRATE
23. STORM SEWER (SIZE VARIES)
24. LIGHT POLE FOUNDATION (SEE LIGHTING PLANS)
25. PIPE UNDERDRAINS 4"

PAVEMENT DESIGN MORTON RAMP TYPICAL SECTIONS

STRUCTURAL DESIGN TRAFFIC: Year 2024
PV = 11,190 SU = 790 SU = 1,185
ROAD CLASSIFICATION CLASS 1
PERCENT OF STRUCTURAL DESIGN TRAFFIC IN DESIGN LANE:
P = 100% S = 100% M = 100%
TRAFFIC FACTOR: Actual TF = 18.81 AC Type = N/A
Minimum TF = 11.17
PG GRADE: Binder = N/A Surface = N/A
SUBGRADE SUPPORT RATING:
SSR = POOR

NOTE:
SEE CROSS SECTIONS FOR DETAILED GRADING

FOR INFORMATION ONLY

FILE NAME = ...\D468620-sht_Pr_Typ_Morton_Ramps_E_01.dgn	DESIGNED - I S	REVISED -
USER NAME = tblank	DRAWN - TMB	REVISED -
PLOT DATE = 7/17/2012	CHECKED - JNR	REVISED -
	DATE - JULY 20, 2012	REVISED -

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED TYPICAL SECTIONS
MORTON AVE RAMPS

SCALE: NTS | SHEET NO. 4 OF 6 SHEETS | STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	90-[14Rx(14HB-4,14,14HVB)BR]	TAZEWELL	2433	66
		CONTRACT NO. 68620		
		ILLINOIS FED. AID PROJECT		

* 74 & 155

MODEL: Default
FILE NAME: pw://terraeng.pw.bentley.com:terraeng-pw01/Documents/Projects/2022222-29 IDOT D4 Work Orders/22-129-021 D4 Three Structures/CADD Data/Sheets/0904016B-I74 over US150/2219202-1-072201 2-SHT-2RampETyp.dgn

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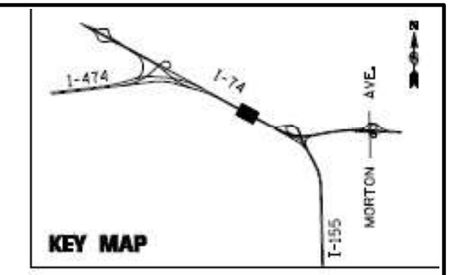
USER NAME = brennaa	DESIGNED - BKR	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 2.000 ' / in.	CHECKED - CEM	REVISED -
PLOT DATE = 3/5/2024	DATE - 2023/11/01	REVISED -

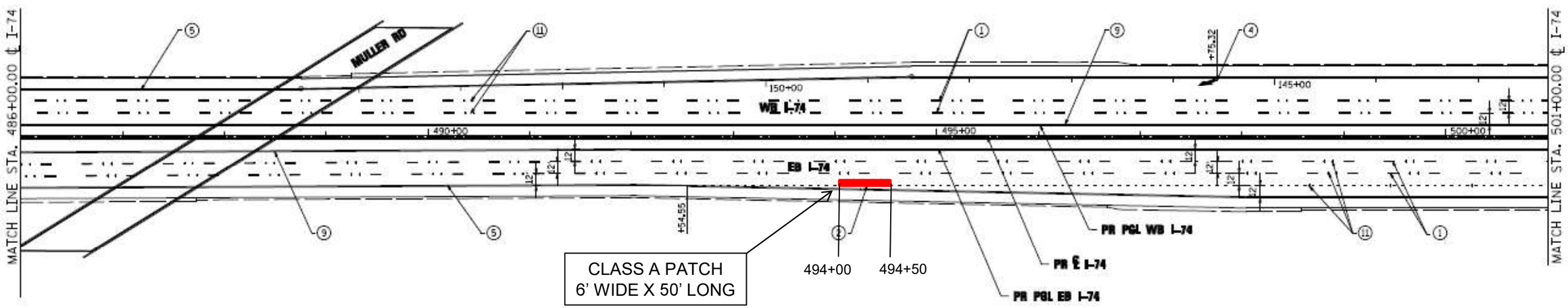
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

RAMP E TYPICAL SECTION– INFORMATION ONLY
WB I–74 OVER US 150 (LOCATION 3)

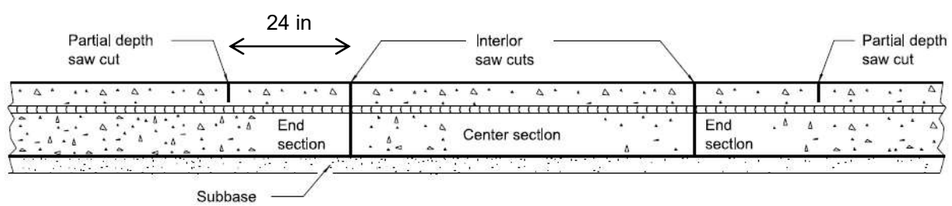
SCALE: | SHEET 21 OF 21 SHEETS | STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	90[(14)I-6;15-1)PP-1]	TAZEWELL	31	28
		CONTRACT NO. 68H82		
		ILLINOIS FED. AID PROJECT		





CLASS A PATCH
6' WIDE X 50' LONG



SAW CUT DETAIL

USER NAME =	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	LOCATION 3 – PLAN EB I-74	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	DRAWN -	REVISED -			74	90[14PP;(15-1)PP-1]	TAZEWELL	31	29
PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -					CONTRACT NO. 68H82		
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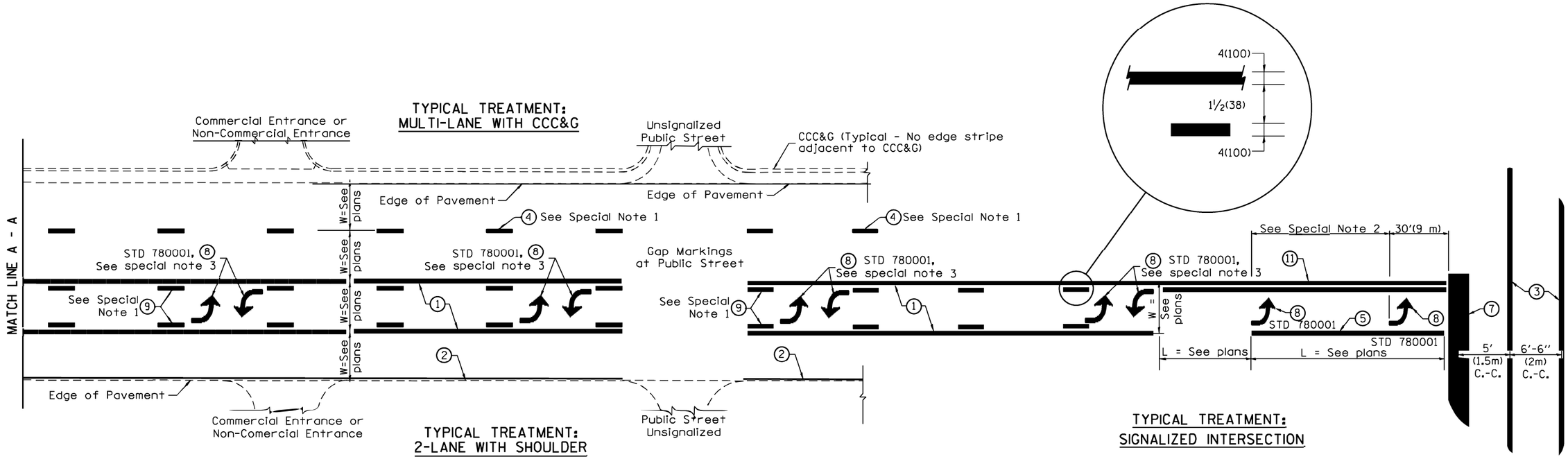


FLUSH PAVED MEDIAN: TWO-WAY LEFT TURN LANE WITH ONE-WAY LEFT TURN LANE AT SIGNALIZED INTERSECTION

TYPICAL PAVEMENT MARKING LEGEND

(Note: This is a District Standard Legend. Some elements may not apply to specific project.)

1. 4(100) Solid (Yellow)
2. 4(100) Solid (White)
3. 2-6(150) Crosswalk @ 6'-6" (2m)min C.-C. (White)
   2-8(200) Crosswalk @ 6'-6" (2m)min C.-C. (White) (When traffic signals are present.)
4. 6(150) Skip-Dash (White) — 10' (3.05m) / 30' (9.14m) / 10' (3.05m) (See Special Note 1)
5. 8(200) Solid (White)
6. 12(300) Diagonal (White) (Item 6 is shown on Std. 780001)
7. 24(600) Stop Bar (White)
8. Letters & Arrows — 33' (10m) (See Std. 780001 and Special Notes 2 & 3)
9. 4(100) Skip-Dash (Yellow) — 10' (3.05m) / 30' (9.14m) / 10' (3.05m) (See Special Note 1)
10. 12(300) Diagonal (Yellow) (See Table A) — 45°
11. 4(100) Double Solid (Yellow) — 11(280) C.-C. — See Table A

SPECIAL NOTES

1. Skip-Dash markings will be centered between both ends of city blocks and shall be placed in alignment transversely across the pavement.
2. The following shall apply to arrows located in one-way left turn lanes:
   A. A minimum of two (2) arrows is required.
   B. The maximum spacing between arrows is 80' (24 m).
   C. Arrows shall be evenly spaced if three (3) or more are required.
3. The following shall apply to arrow pairs located in two-way left turn lanes:
   A. A minimum of two (2) arrow pairs is required.
   B. The maximum spacing between arrow pairs is 200' (61 m).
   C. Arrow pairs shall be evenly spaced if three (3) or more are required.
   D. The spacing between Bi Directional Left Turn Arrows is 33' (10 m).

GENERAL NOTES

1. Refer to State Standard 780001 for additional Pavement Markings including letters & arrows.
2. See Plans for Pavement Markings adjacent to curbed islands and medians, and through lane reductions.
3. Refer to Article 780.13 for letter, number and symbol areas (sq. ft.)
4. Areas are grooved 1" beyond each edge for the following symbols:
   Through Arrow= 14.8 sq. ft.
   Large Left or Right Arrow= 21.9 sq. ft.
   2 Arrow Combination Left (or Right) and Through= 34.9 sq. ft.
   Wrong Way Arrow= 29.5 sq. ft.
   Railroad Crossing Symbol= 69.8 sq. ft.
   (For further information, refer to BDE Special Provision: Grooving for Recessed Pavement Markings)

DESIGNER NOTES:
1. Include State Standard 780001 (Typical Pavement Markings)

01-01-97	RENUM. F-8.03, NEW REVISION BOX	T.P.	10-16-06	REVISED TO 2007 SPEC.	
02-07-97	ADD BI DIRECTIONAL DIMENSION	J.A.	2/29/16	ADDED GROOVING AREAS	R.D.
10-97	CORRECT BI DIRECTIONAL DIMENSION	J.A.	07-16-19	SPELLING CORRECTIONS	R.D.
08-02	ADD CROSSWALK DMNS. WITH T.S.	M.A.			

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TYPICAL PAVEMENT MARKINGS

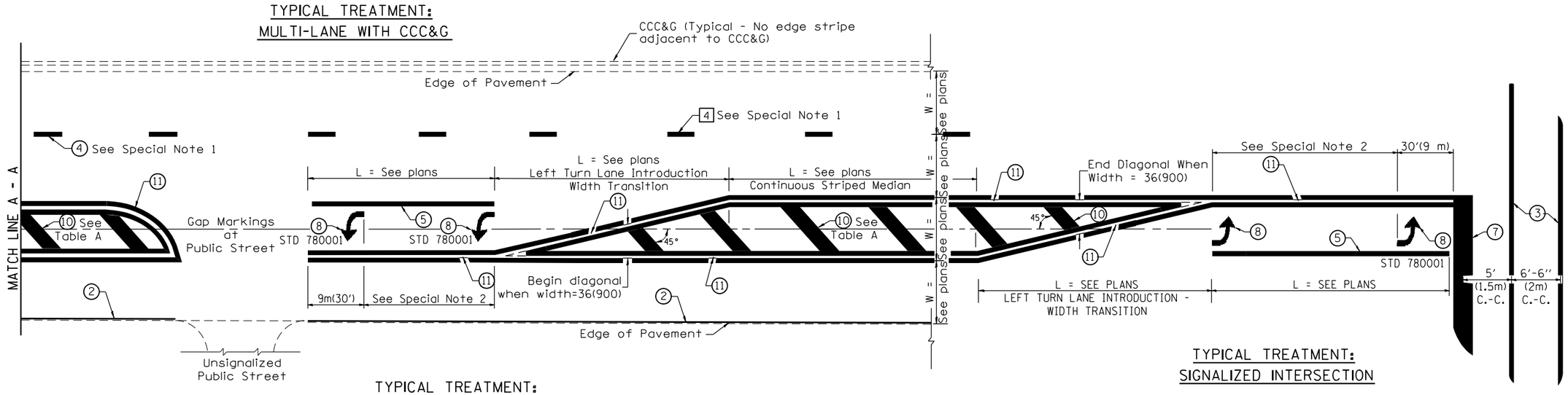
NOT TO SCALE

SHT. 1 OF 2
CADD STD. 780001-D4

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	90[(14)I-6;15-1)PP-1]	TAZEWELL	31	30

CONTRACT NO. 68H82

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

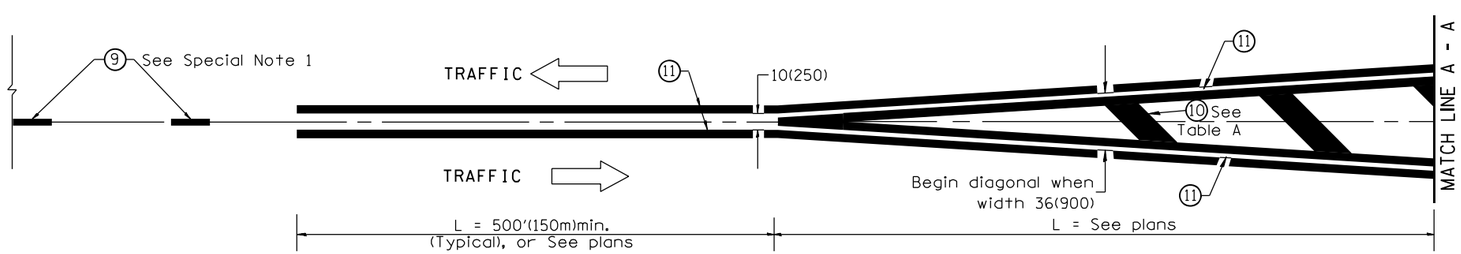


FLUSH PAVED MEDIAN: RESTRICTED LEFT TURN LANE

TABLE A

RECOMMENDED SPACING BETWEEN DIAGONAL LINES

SPEED LIMIT RANGE	CONTINUOUS	INTERSECTION CHANNELIZATION (Includes Width Transitions for Median and Left Turn Lane Introductions)
Less Than 30 mph (50 km/h)	50' (15m)	15' (5m)
30 - 45 mph (50 - 70 km/h)	75' (23m)	20' (6m)
Over 45 mph (70 km/h)	150' (46m)	30' (9m)



MEDIAN INTRODUCTION - WIDTH TRANSITIONS

All dimensions are in inches (millimeters) unless otherwise noted.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TYPICAL PAVEMENT MARKINGS

NOT TO SCALE

SHT. 2 OF 2
CADD STD. 780001-D4

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	90[(14)I-6;15-1)PP-1]	TAZEWELL	31	31
		CONTRACT NO. 68H82		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		