

INDEX OF SHEETS

03-07-2025 LETTING ITEM 069

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6	TYPICAL SECTIONS
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9	PAVEMENT MARKING SHEET
10-13	MAINTENANCE OF TRAFFIC
14-23	STRUCTURAL SHEETS
24-25	GUARDRAIL EROSION CONTROL TREATMENTS

HIGHWAY STANDARDS

000001-08	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
001006	DECIMAL OF AN INCH AND OF A FOOT
280001-07	TEMPORARY EROSION CONTROL SYSTEMS
701201-05	LANE CLOSURE, 2L 2W, DAY ONLY, FOR SPEEDS > 45 MPH
701321-19	LANE CLOSURE, 2L 2W, BRIDGE REPAIR WITH BARRIER
701326-04	LANE CLOSURE, 2L 2W, PAVEMENT WIDENING, FOR SPEEDS > 45 MPH
701901-10	TRAFFIC CONTROL DEVICES
704001-08	TEMPORARY CONCRETE BARRIER
780001-05	TYPICAL PAVEMENT MARKINGS
782006-01	GUARDRAIL AND BARRIER WALL REFLECTOR MOUNTING DETAILS

DESIGN DESIGNATION

IL-94: MAJOR COLLECTOR
ADT: 350
SU: 30
MU: 50

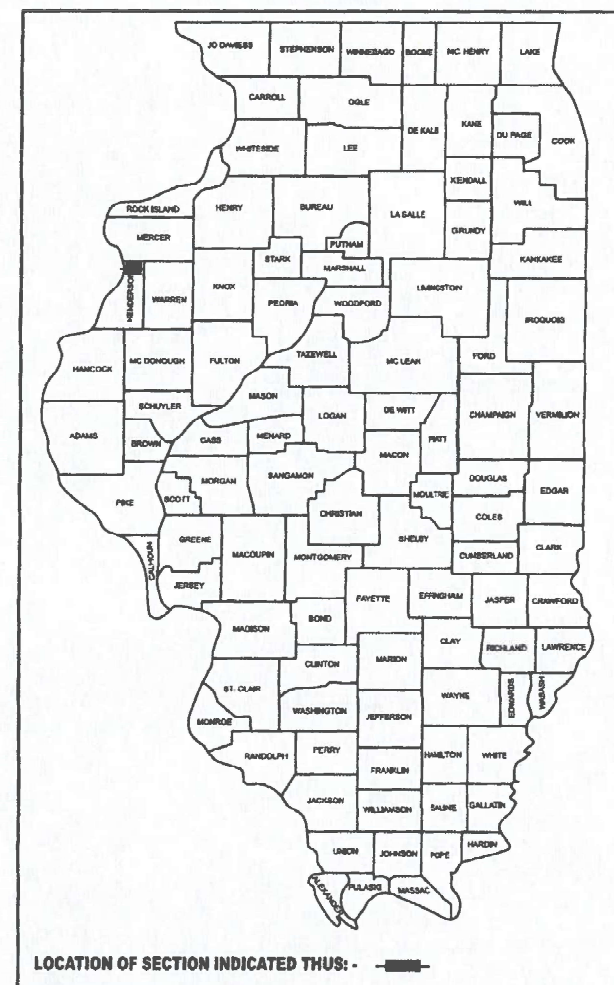
STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

PROPOSED HIGHWAY PLANS

FAS ROUTE 1412 (IL 94)
SECTION [(105B)BR]BRR
IL-94 OVER N. HENDERSON CREEK BRIDGE REPAIR
HENDERSON COUNTY

F.A.S. KTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1412	[(105B)BR]BRR	HENDERSON	25	1
		ILLINOIS	CONTRACT NO. 68J40	

D-94-064-24



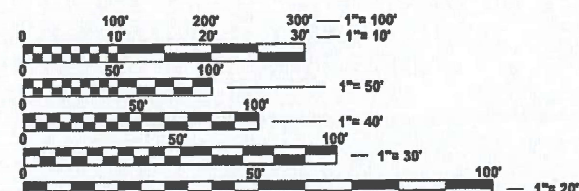
LOCATION OF SECTION INDICATED THUS: -

C-94-092-24

LOCATION OF
IMPROVEMENT
SN 036-0040

BEGIN SECTION
STA. 95 + 52

END SECTION
STA. 104 + 98



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

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

PROJECT ENGINEER: BEN TELLEFSON
PROJECT MANAGER: MARK ECKHOFF

CONTRACT NO. 68J40

GROSS LENGTH = 946.00 FT. = 0.179 MILE
NET LENGTH = 663.00 FT. = 0.126 MILE



Collinsville
100 Lanier Court, Suite 1
Collinsville, IL 62234
618.345.2200
Belleville
1 South Church, Suite 200
Belleville, IL 62220
618.416.4688
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St. Louis
720 Olive, Suite 700
St. Louis, MO 63101
314.588.8381
St. Charles
820 South Main, Suite 309
St. Charles, MO 63301
636.493.6277



Brian Heil 12/9/2024
BRIAN HEIL, P.E.
IL P.E. NO. 062-054934
License Expires 11/30/2025
(Applies to Sheets 1-13)

PROJECT DESCRIPTION:
BRIDGE EXPANSION JOINT REPLACEMENT AND
BRIDGE DECK REPAIR.

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	
SUBMITTED	December 10 20 24
	Kenil & Barnett Inc.
	REGIONAL ENGINEER
January 31 20 25	
	ENGINEER OF DESIGN AND ENVIRONMENT
January 31 20 25	
	DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

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OF THE STATE OF ILLINOIS

GENERAL NOTES:

GENERAL

1. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS IN THE FIELD PRIOR TO ORDERING MATERIALS AND COMMENCING CONSTRUCTION.
2. THE CONTRACTOR SHALL CONFINE ALL OPERATIONS TO THE CONSTRUCTION LIMITS LINE SHOWN ON THE PLANS. ANY AREA DISTURBED BEYOND THESE LIMITS SHALL BE RESTORED TO ITS ORIGINAL CONDITION AT THE CONTRACTOR'S EXPENSE.
3. APPROACH PAVEMENT DRAINAGE GRATES SHALL BE TACK WELDED TO THE FRAME AT FOUR LOCATIONS ON THE GRATE. THE COST FOR THIS WORK SHALL BE INCLUDED IN TRAFFIC CONTROL STANDARD 701321.

PAVEMENT MARKING

4. THE CONTRACTOR SHALL APPLY SHORT-TERM PAVEMENT MARKINGS TO THE MILLED, PRIMED AND EACH HOT-MIX ASPHALT LAYER. A QUANTITY FOR SHORT-TERM MARKING EQUAL TO THE AMOUNT OF PERMANENT PAVEMENT MARKING TIMES THE NUMBER OF REQUIRED APPLICATIONS HAS BEEN INCLUDED IN THE PLANS. ONLY THE FINAL APPLICATION OF SHORT-TERM PAVEMENT MARKINGS SHALL BE REMOVED AND SEPARATE PAYMENT WILL BE MADE FOR SHORT-TERM PAVEMENT MARKING REMOVAL AND PAVEMENT MARKING REMOVAL.

COMMITMENTS:

NONE

MIXTURES TABLE

LOCATION(S):	IL 94	IL 94
MIXTURE USE(S):	LOWER HMA SHOULDER	UPPER 1.5" HMA SHOULDER
PG:	PG 64-22	PG 64-22
DESIGN AIR VOIDS:	4.0% @ Ndes=50	4.0% @ Ndes=50
MIXTURE COMPOSITION:	IL 19.0	IL 9.5
FRICTION AGG:	N/A	MIX D
MIXTURE WEIGHT:	112.0 LB/SQ YD/IN	112.0 LB/SQ YD/IN
QUALITY MANAGEMENT PROGRAM:	QCP	QCP
SUBLOT SIZE:	1,000 TONS	1,000 TONS
MATERIAL TRANSFER DEVICE (REQUIRED?)	NO	NO

MODEL: General Notes [Sheet]
FILE NAME: H:\P\2223104 - D4 V-A\W0 11-IL 94 over Henderson Creek\CADD\Microstation\CADD Drawings\0468\40-shl-gennote.dgn



ILLINOIS DESIGN FIRM LICENSE NO.: 184.001115

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL NOTES

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

F.A.S RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1412	[(105B)BR]BRR	HENDERSON	25	2
CONTRACT NO. 68J40				
ILLINOIS FED. AID PROJECT				

MODEL: SQQ [Sheet]
FILE NAME: H:\P223104 - D4 V-VWO 11-IL 94 over Henderson Creek\CADD\Microstation\CADD Drawings\468J40-shl-SQQ.dgn

SI						CONSTRUCTION CODE					
						HENDERSON COUNTY					
						SN 036-0040					
						0047					
						100% STATE					
SI	SP	CODE NO.	ITEM	UNIT	TOTAL QUANTITY						
		20200100	EARTH EXCAVATION	CU YD	140	140					
		25000750	MOWING	ACRE	3.25	3.25					
		31101200	SUBBASE GRANULAR MATERIAL, TYPE B 4"	SQ YD	313	313					
		44201796	CLASS D PATCHES, TYPE IV, 12 INCH	SQ YD	74	74					
		48203029	HOT-MIX ASPHALT SHOULDERS, 8"	SQ YD	313	313					
		50102400	CONCRETE REMOVAL	CU YD	17.2	17.2					
		50300255	CONCRETE SUPERSTRUCTURE	CU YD	18	18					
		50300300	PROTECTIVE COAT	SQ YD	227	227					
		50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	2,110	2,110					
		50800515	BAR SPLICERS	EACH	26	26					
		52000110	PREFORMED JOINT STRIP SEAL	FOOT	90	90					
		59000200	EPOXY CRACK INJECTION	FOOT	40	40					
*		63000001	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	FOOT	350	350					
*		63100085	TRAFFIC BARRIER TERMINAL, TYPE 6	EACH	4	4					

NOTES: SI = SPECIALTY ITEM
SP = SEE PROJECT SPECIFIC SPECIAL PROVISIONS

MODEL: SQQ-1 [Sheet]
FILE NAME: H:\P223104 - D4 V-VWO 11-IL 94 over Henderson Creek\CADD\Microstation\CADD Drawings\468J40-shl-SQQ.dgn

SI						CONSTRUCTION CODE					
						HENDERSON COUNTY					
						SN 036-0040					
						0047					
SP	CODE NO.	ITEM	UNIT	TOTAL QUANTITY	100% STATE						
*	63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	4	4						
	63200310	GUARDRAIL REMOVAL	FOOT	833	833						
	67100100	MOBILIZATION	L SUM	1	1						
	70100405	TRAFFIC CONTROL AND PROTECTION, STANDARD 701321	EACH	1	1						
	70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	L SUM	1	1						
	70100500	TRAFFIC CONTROL AND PROTECTION, STANDARD 701326	L SUM	1	1						
	70103815	TRAFFIC CONTROL SURVEILLANCE	CAL DA	5	5						
	70106500	TEMPORARY BRIDGE TRAFFIC SIGNALS	EACH	1	1						
	70106700	TEMPORARY RUMBLE STRIPS	EACH	6	6						
	70107004	PAVEMENT MARKING BLACKOUT TAPE, 4"	FOOT	3,569	3,569						
	70107025	CHANGEABLE MESSAGE SIGN	CAL DA	14	14						
	70300100	SHORT TERM PAVEMENT MARKING	FOOT	212	212						
	70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SQ FT	70.5	70.5						
	70400100	TEMPORARY CONCRETE BARRIER	FOOT	587.5	587.5						

NOTES: SI = SPECIALTY ITEM
SP = SEE PROJECT SPECIFIC SPECIAL PROVISIONS



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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

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

F.A.S RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1412	[(105B)BR]BRR	HENDERSON	25	4
CONTRACT NO. 68J40				
ILLINOIS FED. AID PROJECT				

MODEL: SOQ-2 [Sheet]
FILE NAME: H:\P\23104 - D4 V-VIWO 11-IL 94 over Henderson Creek\CADD\Microstation\CADD Drawings\D468.I40-sht-SOQ.dgn

[illegible]

NOTES: SI = SPECIALTY ITEM
SP = SEE PROJECT SPECIFIC SPECIAL PROVISIONS

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		DRAWN -	REVISED -						1412	[(105B)BR]BRR	HENDERSON	25	5
		CHECKED -	REVISED -		<div>CONTRACT NO. 68J40</div>								
	PLOT DATE = 12/6/2024	DATE -	REVISED -										
					SCALE:	SHEET 3	OF 3 SHEETS	STA.	TO STA.		ILLINOIS	FED. AID PROJECT	

TYPICAL SECTIONS LEGEND

- 1

GUARDRAIL FROM STA. 97+10 TO STA. 104+05 LT
- 2

GUARDRAIL FROM STA. 95+80 TO STA. 102+85 RT

TYPICAL SECTIONS LEGEND

- 1

EXISTING HMA SURFACE
- 2

EXISTING HMA BASE COURSE
- 3

EXISTING AGGREGATE SHOULDER
- 4

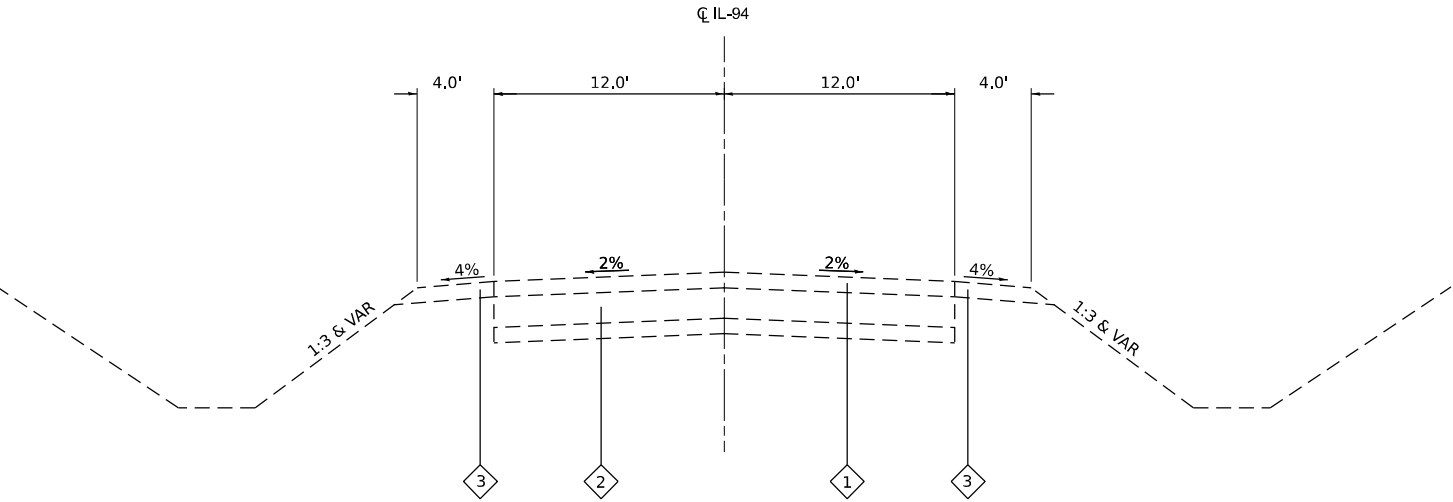
EXISTING GUARDRAIL
- 5

PROPOSED HMA SHOULDER, 8"
- 6

PROPOSED SUBBASE GRANULAR TY B, 4"
- 7

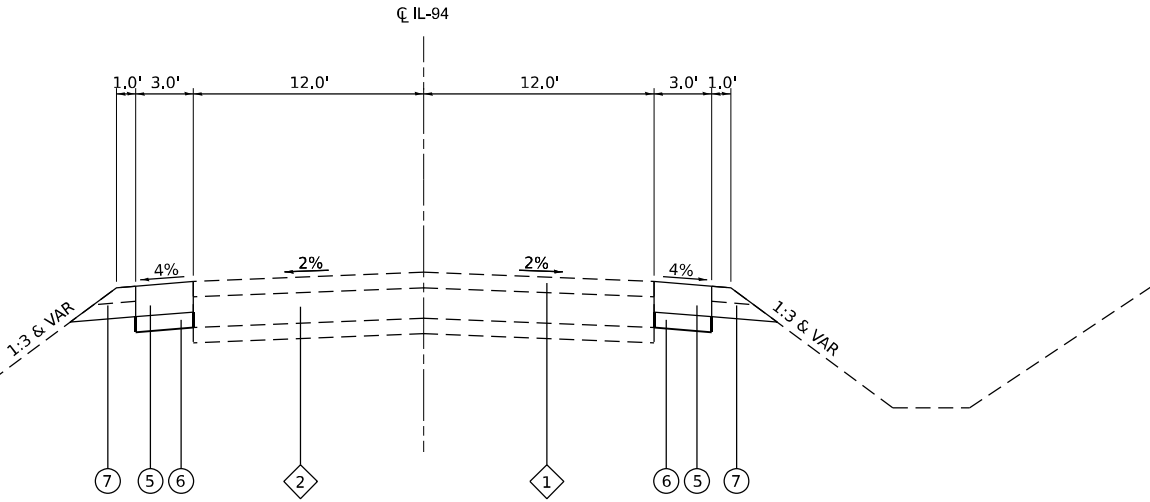
GUARDRAIL AGGREGATE EROSION CONTROL
- 8

PROPOSED GUARDRAIL



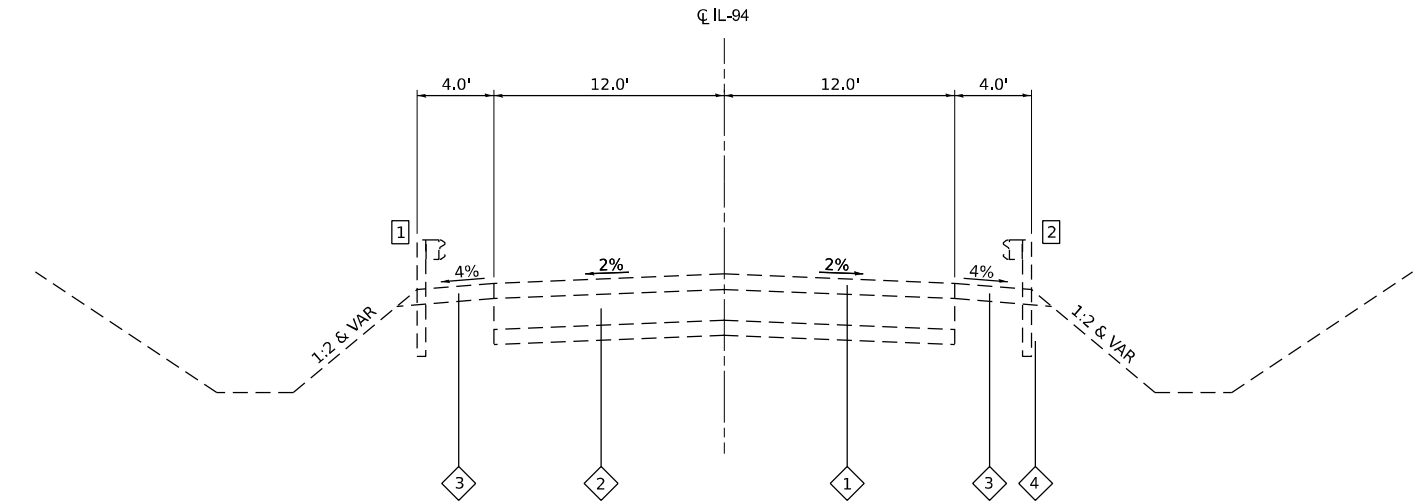
EXISTING TYPICAL SECTION

STA. 95+52 TO STA. 97+10
STA. 102+85 TO STA. 104+98



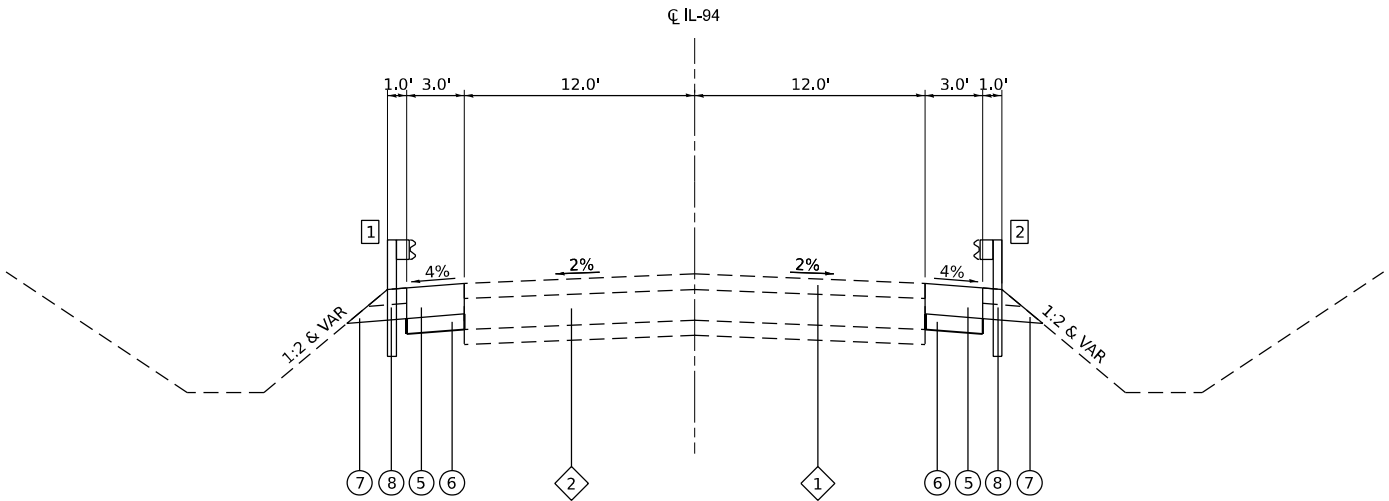
PROPOSED TYPICAL SECTION

STA. 95+70 TO STA. 97+10
STA. 102+85 TO STA. 104+00



EXISTING TYPICAL SECTION

STA. 97+10 TO STA. 102+85
BRIDGE OMISSION
STA. 98+58.5 TO STA. 101+41.5



PROPOSED TYPICAL SECTION

STA. 97+10 TO STA. 102+85
BRIDGE OMISSION
STA. 98+58.5 TO STA. 101+41.5



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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS

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

F.A.S RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1412	[(105B)BR]BRR	HENDERSON	25	6
CONTRACT NO. 68J40				
ILLINOIS FED. AID PROJECT				

MODEL: Schedule [Sheet]
FILE NAME: H:\P223104-D4 V-VIWO 11-IL 94 over Henderson Creek\CADD\Microstation\CADD Drawings\ID468\ID-shl-schedule.dgn

PAVEMENT MARKING

STATION	STATION	OFFSET	COMMENT	PAVT MK BLKOUT TAPE 4 (FOOT)	SHORT TERM PAVT MKING (FOOT)	SHORT TRM PAVT MK REM (SQ FT)	PAINT PVT MK LINE 4		RAISED REF PM REFL REM (EACH)	RAISED REF PM REFL RP (EACH)
							(YELLOW) (FOOT)	(WHITE) (FOOT)		
95+36	98+07	CL	SOLID+SKIP DASH	339	34	12	339		3	3
95+46	104+54	RT	WHITE	908	18	6		908		
95+96	105+04	LT	WHITE	908	18	6		908		
98+07	105+14	CL	DOUBLE YELLOW	1414	141	47	1414		9	9
TOTAL				3,569	212	71	1,753	1,816	12	12

NOTES:

1. SEE HIGHWAY STANDARD 780001 FOR PAVEMENT MARKING DETAILS.

TRAFFIC CONTROL SURVEILLANCE

LOCATION	TC SURVEILLANCE (CAL DA)
IL 94	5
TOTAL	
	5

MOWING

STATION	STATION	OFFSET	MOWING (ACRE)
95+36	99+30	RT	0.75
95+36	99+81	LT	0.75
99+88	105+14	RT	1.00
100+34	105+14	LT	0.75
TOTAL			3.25

NOTES:

1. ASSUME 2 APPLICATIONS.

EARTHWORK

STATION	STATION	OFFSET	EARTH EXCAVATION (CU YD)
95+70	98+27	RT	40
96+50	98+51	LT	30
101+49	104+00	RT	35
101+73	104+00	LT	35
TOTAL			140

TRAFFIC CONTROL AND PROTECTION

LOCATION	MOBILIZATION	TRAF CONT-PROT 701321 (L SUM)	TRAF CONT-PROT 701201 (L SUM)	TRAF CONT-PROT 701326 (L SUM)	TEMP BR TRAF SIGNALS (EACH)	TEMP RUMBLE STRIPS (EACH)	CHANGEABLE MESSAGE SN (CAL DA)	TEMP CONC BARRIER (FOOT)	REL TEMP CONC BARRIER (FOOT)	IMP ATTN TEMP NRD TL3 (EACH)	IMP ATTN REL NRD TL3 (EACH)	CONSTRUCTION LAYOUT (L SUM)
IL 94	1	1	1	1								1
IL 94 (STAGE 1)					1	6	14	587.5		2		
IL 94 (STAGE 2)									587.5		2	
TOTAL		1	1	1	1	6	14	587.5	587.5	2	2	1

PAVEMENT

STATION	STATION	OFFSET	SUB GRAN MAT B 4 (SQ YD)	CL D PATCH T4 12 (SQ YD)	HMA SHOULDERS 8 (SQ YD)	SPBGR TY A 6FT POSTS (FOOT)	TRAF BAR TERM T6 (EACH)	TR BAR TRM T1 SPL TAN (EACH)	GUARDRAIL REMOV (FOOT)	GDRL AGG EROS CONT (TON)
95+70	98+27	RT	86		86					13
95+79	98+46	RT							266	
96+50	98+51	LT	67		67					10
96+57	98+07	RT				150.0				
97+11	98+74	LT							164	
97+69		RT					1			
97+99		LT					1			
98+12	98+37	LT				25.0				
98+62		LT					1			
99+57		RT					1			
101+27		RT					1			
101+30	102+86	RT							157	
101+49	104+00	RT	84		84					13
101+57		LT					1			
101+57	104+03	LT							246	
101+63	101+88	RT				25.0				
101+73	104+00	LT	76		76					11
101+88		RT						1		
101+93	103+43	LT				150.0				
103+43		LT						1		
104+48	104+73	RT		39						
104+48	104+73	LT		35						
TOTAL			313	74	313	350.0	4	4	833	47



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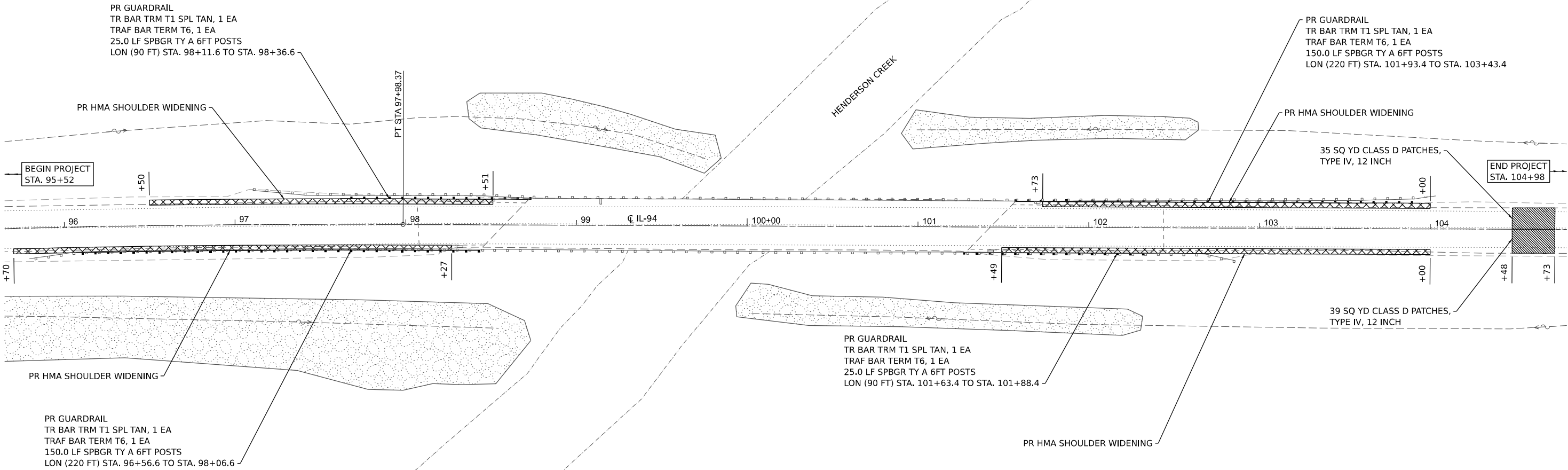
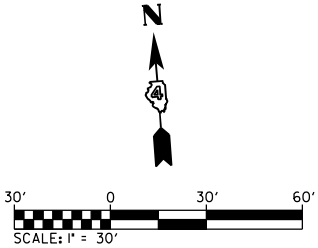
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STATE OF ILLINOIS
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SCHEDULES

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

F.A.S RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1412	[(105B)BR]BRR	HENDERSON	25	7
CONTRACT NO. 68J40				
		ILLINOIS	FED. AID PROJECT	



NOTES:

- SEE DISTRICT 4 STANDARD 630101 FOR DETAILS ON GUARDRAIL AGGREGATE EROSION CONTROL BEHIND PR HMA SHOULDER WIDENING.

MODEL: Plan Sheet - Plan 1 (Sheet)
FILE NAME: H:\P223104 - D4 VAWO 11-IL-94 over Henderson Creek\CADD\Microstation\CADD Drawings\DWG\11-IL-94 over Henderson Creek.dgn



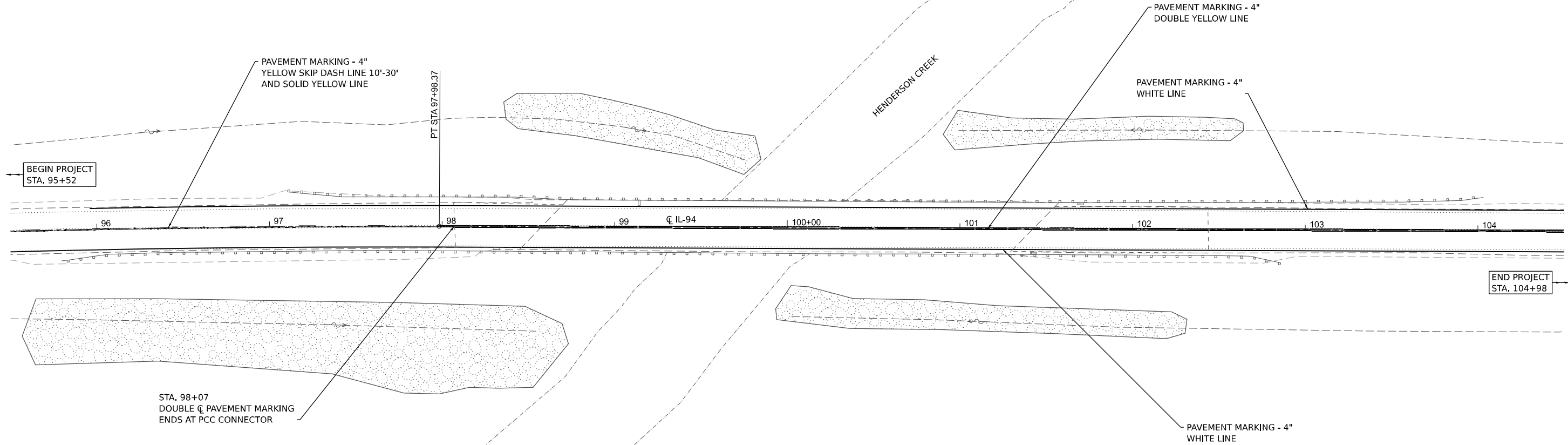
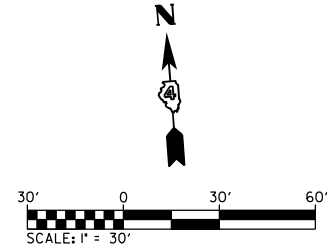
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PLAN SHEET

SCALE: 1"=30' SHEET 1 OF 1 SHEETS STA. 95+50.00 TO STA. 104+50.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1412	[(105B)BR]BRR	HENDERSON	25	8
CONTRACT NO. 68J40				
ILLINOIS FED. AID PROJECT				



MODEL: PMK Sheet - Plan 1 (Sheet)
FILE NAME: H:\2223104 - D4 VAWO 11-IL 94 over Henderson Creek\CADD\Microstation\CADD Drawings\468\40-shl-pmk.dgn



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DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING SHEET

SCALE: 1"=30' SHEET 1 OF 1 SHEETS STA. 95+50.00 TO STA. 104+50.00

F.A.S RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1412	[(105B)BR]BRR	HENDERSON	25	9
CONTRACT NO. 68J40				
ILLINOIS FED. AID PROJECT				

GENERAL NOTES

VERTICAL PANELS, DRUMS WITH STEADY BURNING LIGHTS, TYPE III BARRICADES, SIGNS, GUARDRAIL REFLECTORS, BARRIER WALL REFLECTORS, AND DETECTOR LOOPS, SHALL BE INCLUDED IN THE COST OF THE PAY ITEM "TRAFFIC CONTROL AND PROTECTION, STANDARD 701321"

THIS WORK SHALL SUPPLEMENT AND BE IN ACCORDANCE WITH HIGHWAY STANDARD 701321.

FOR DIMENSIONS AND SPACING NOT SHOWN, SEE HIGHWAY STANDARD 701321.

THE CONTRACTOR SHALL PLACE MAX WIDTH SIGNS BEFORE IMPLEMENTING ANY STAGE TRAFFIC CONTROL.

REMOVE ALL CONFLICTING PAVEMENT MARKINGS.

TRAFFIC CONTROL MAY BE ADJUSTED DUE TO FIELD CONDITIONS APPROVED BY ENGINEER.

STAGE CONSTRUCTION SEQUENCE

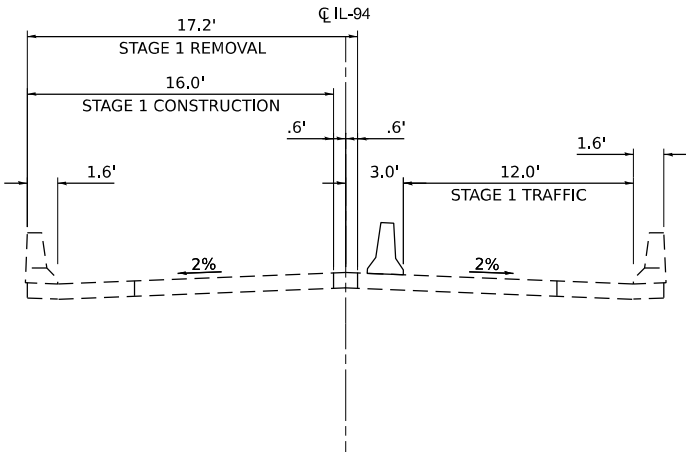
THE FOLLOWING STAGE CONSTRUCTION SEQUENCE IS FOR INFORMATION ONLY. THE CONTRACTOR IS RESPONSIBLE FOR PLANNING AND EXECUTING THIS PROJECT, WHICH SHALL BE SUBJECT TO THE APPROVAL OF THE ENGINEER.

PRE-STAGE 1:
CONSTRUCT HOT-MIX ASPHALT BASE COURSE WIDENING ALONG NORTHBOUND AND SOUTHBOUND LANES. UTILIZE TRAFFIC CONTROL AND PROTECTION STANDARD 701326.
EXISTING GUARDRAIL TO REMAIN IN PLACE.
SET UP STAGE 1 TRAFFIC CONTROL STANDARD 701321.

STAGE 1:
CONSTRUCT SOUTH HALF OF SN 036-0040 IMPROVEMENTS.
EXISTING GUARDRAIL TO REMAIN IN PLACE.
REMOVE STAGE 1 TRAFFIC CONTROL STANDARD 701321.

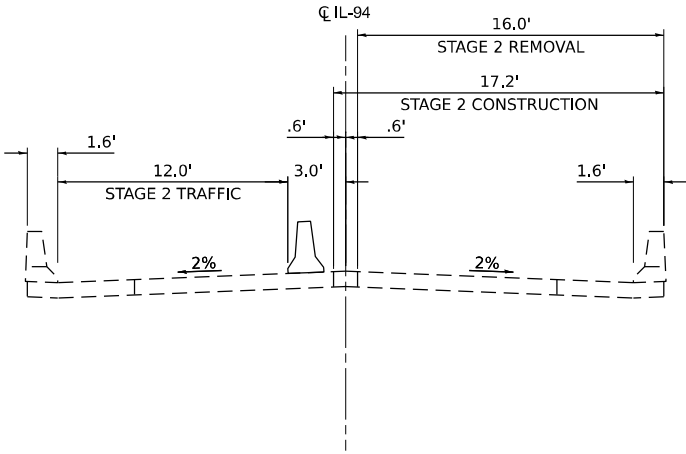
STAGE 2:
SET UP STAGE TWO TRAFFIC CONTROL STANDARD 701321.
CONSTRUCT NORTH HALF OF SN 036-0040 IMPROVEMENTS.
EXISTING GUARDRAIL TO REMAIN IN PLACE.
REMOVE STAGE 2 TRAFFIC CONTROL STANDARD 701321.

STAGE 3:
INSTALL PAVEMENT MARKINGS.
UTILIZE TRAFFIC CONTROL AND PROTECTION STANDARD 701311.



STAGE 1 TYPICAL SECTION

STA. 98+01 TO STA. 102+43



STAGE 2 TYPICAL SECTION

STA. 98+07 TO STA. 102+49

MODEL: MOT Typical [Sheet]
FILE NAME: H:\P223104 - D4 V-VIWO 11-IL 94 over Henderson Creek\CADD\Microstation\CADD Drawings\0468\00-sh1-typical.dgn



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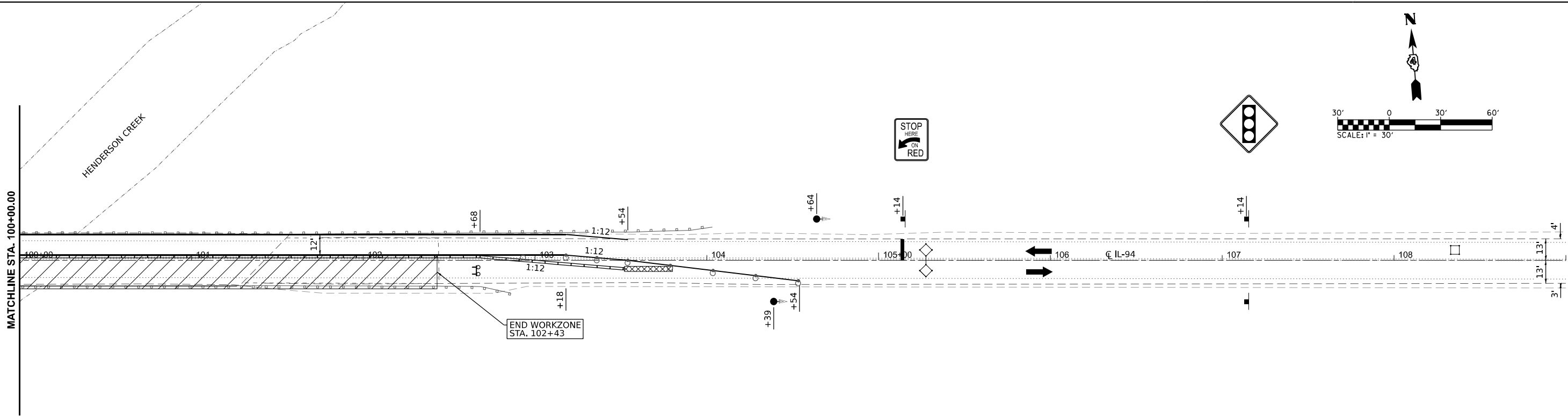
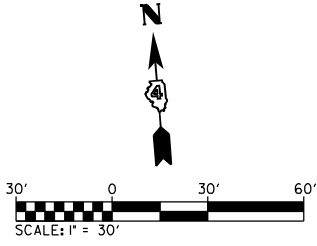
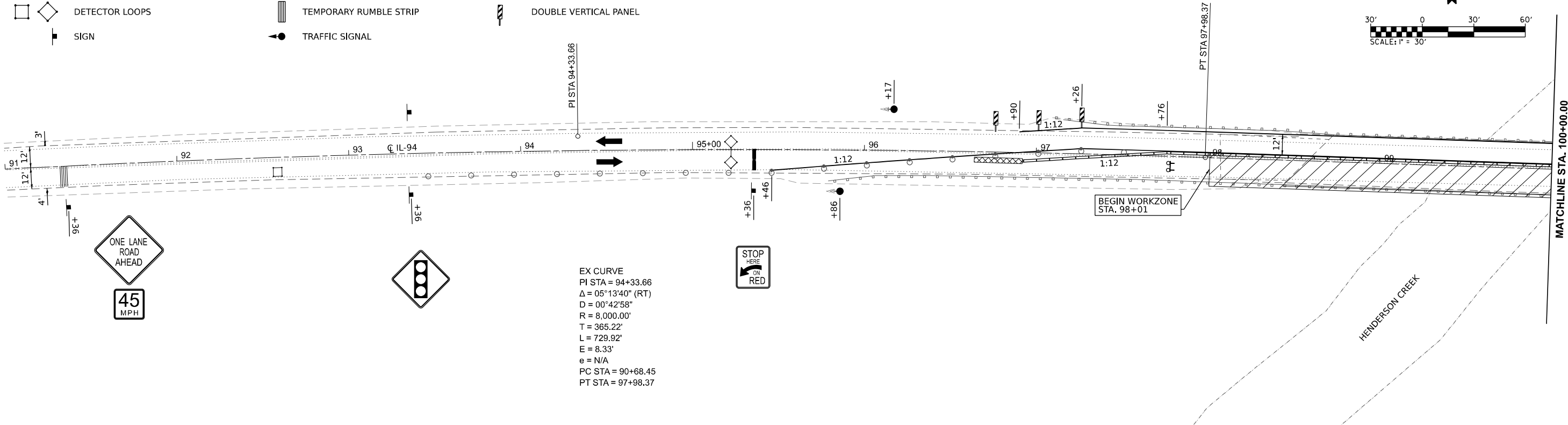
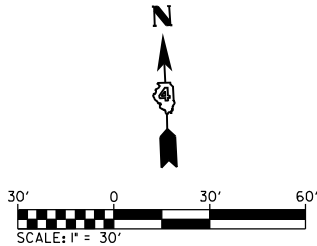
MAINTENANCE OF TRAFFIC
TYPICAL SECTIONS

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

F.A.S RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1412	[(105B)BR]BRR	HENDERSON	25	10
CONTRACT NO. 68J40				
ILLINOIS FED. AID PROJECT				

LEGEND:

- WORK ZONE
- TEMPORARY CONCRETE BARRIER
- TYPE III BARRICADE WITH FLASHING LIGHTS
- TEMPORARY IMPACT ATTENUATOR
- DRUM WITH STEADY BURNING LIGHT
- DIRECTION OF TRAFFIC
- DETECTOR LOOPS
- TEMPORARY RUMBLE STRIP
- DOUBLE VERTICAL PANEL
- SIGN
- TRAFFIC SIGNAL



MODEL: MOT - Stage 1 MOT [Sheet]
FILE NAME: H:\P223104 - D4 VAWO 11-IL 94 over Henderson Creek\CADD\Microstation\CADD Drawings\DWG\11-IL 94 over Henderson Creek\11-IL 94 over Henderson Creek.dgn



USER NAME = breanna.frahm	DESIGNED -	REVISED -
	DRAWN -	REVISED -
	CHECKED -	REVISED -
PLOT DATE = 12/6/2024	DATE -	REVISED -


STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION


MAINTENANCE OF TRAFFIC
STAGE 1


SCALE: 1"=30' SHEET 2 OF 4 SHEETS STA. 91+00.00 TO STA. 109+00.00


F.A.S RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1412	[(105B)BR]BRR	HENDERSON	25	11
CONTRACT NO. 68J40				
ILLINOIS FED. AID PROJECT				


LEGEND:


- 


WORK ZONE
- 


TEMPORARY CONCRETE BARRIER
- 


TYPE III BARRICADE WITH FLASHING LIGHTS
- 


TEMPORARY IMPACT ATTENUATOR
- 


DRUM WITH STEADY BURNING LIGHT
- 

DIRECTION OF TRAFFIC
- 

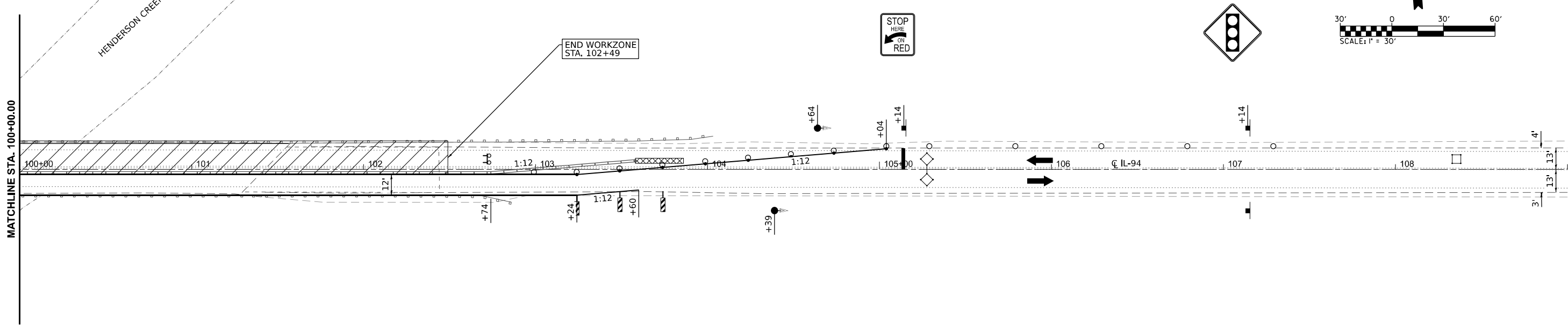
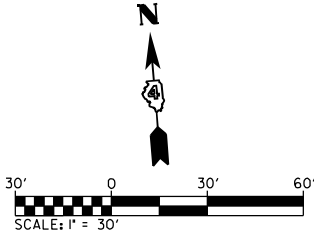
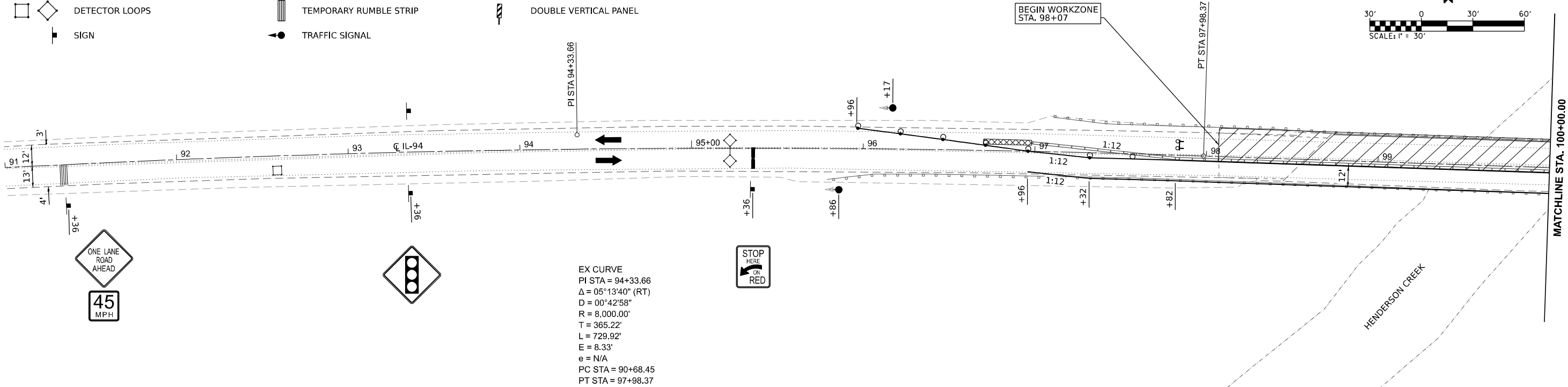
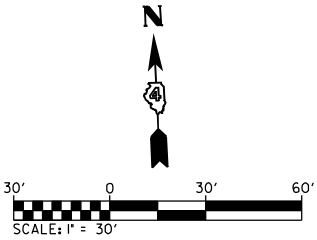
DETECTOR LOOPS
- 

TEMPORARY RUMBLE STRIP
- 

DOUBLE VERTICAL PANEL
- 

SIGN
- 

TRAFFIC SIGNAL



MODEL: MOT - Stage 2.MOT [Sheet]
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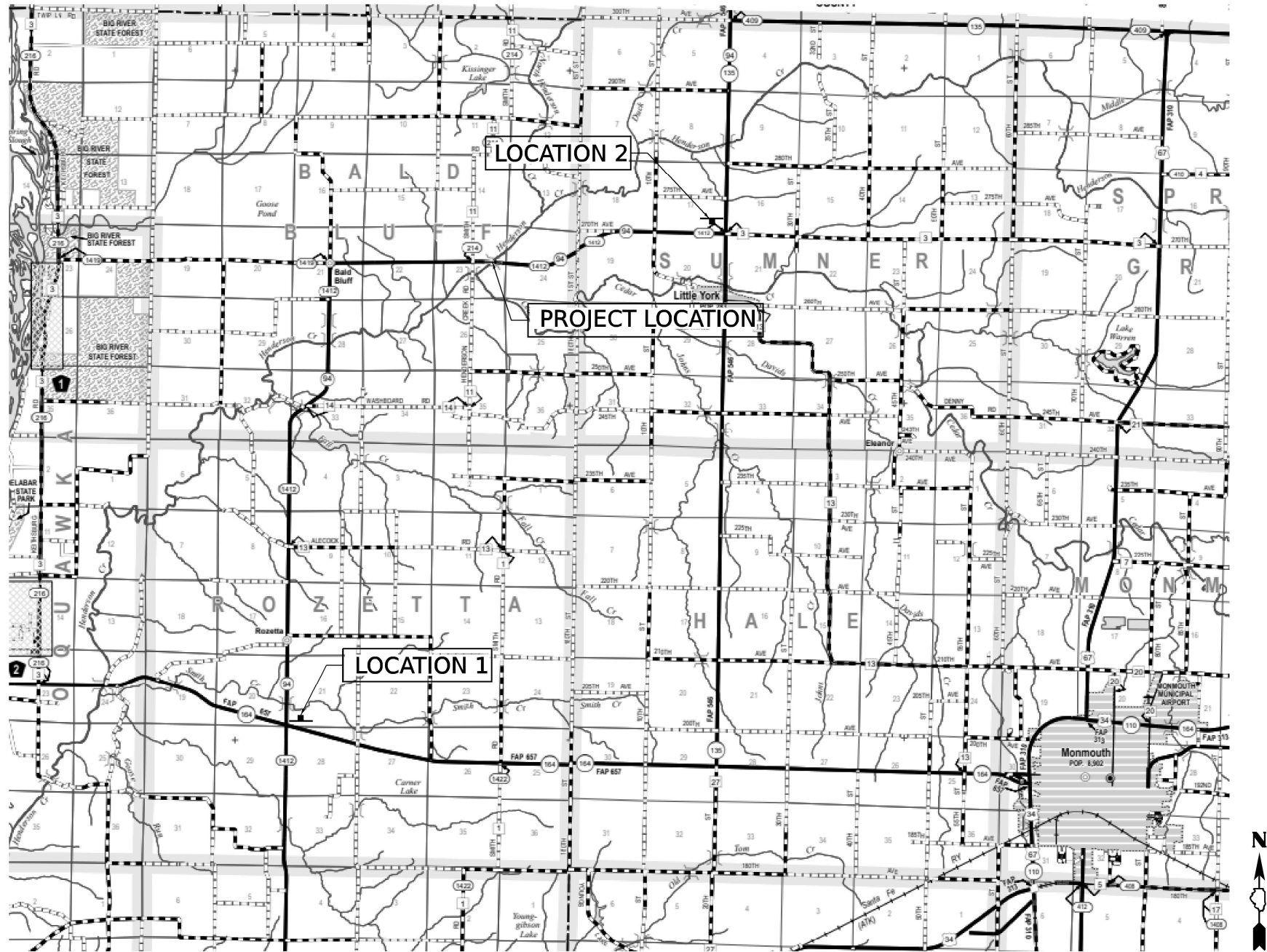
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	DRAWN -	REVISED -
	CHECKED -	REVISED -
PLOT DATE = 12/9/2024	DATE -	REVISED -

STATE OF ILLINOIS
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MAINTENANCE OF TRAFFIC
STAGE 2

SCALE: 1"=30' SHEET 3 OF 4 SHEETS STA. 91+00.00 TO STA. 109+00.00

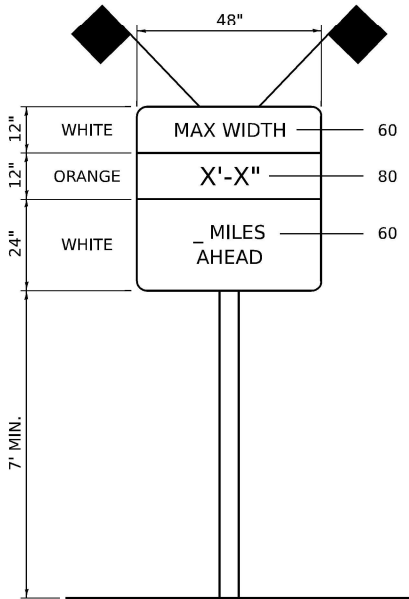
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1412	[(105B)BR]BRR	HENDERSON	25	12
CONTRACT NO. 68J40				
ILLINOIS FED. AID PROJECT				



GENERAL NOTES:

ACTUAL MAXIMUM WIDTH ARE TO BE MEASURED BY THE ENGINEER AFTER TEMPORARY CONCRETE BARRIER WALL IS PLACED FOR STAGE 1.

ALL SIGNS SHALL BE POST MOUNTED IN ACCORDANCE WITH ARTICLE 701.14 OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.



SIGN A
(WIDTH RESTRICTION SIGN)



SIGN C
"NORTH" - M3-1 (24x12)
IL 94 - M1-100.2 (24x24)



SIGN D
"SOUTH" - M3-3 (24x12)
IL 94 - M1-100.2 (24x24)

LOCATION	SIGNS	DISTANCE
1	IL 94 SB AT IL 135	A/C 9.0 MILES
2	IL 94 NB AT IL 164	A/D 3.5 MILES

MODEL - Max Width Sign Detail (Sheet)
FILE NAME - H:\223104 - D4 V\WVO 11-IL 94 over Henderson Creek\CADD\Microstation\CADD Drawings\D468.dwg-shly-typical.dgn



ILLINOIS DESIGN FIRM LICENSE NO.: 184.001115

USER NAME = breanna.frahm	DESIGNED -	REVISED -
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	CHECKED -	REVISED -
PLOT DATE = 12/9/2024	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC
MAXIMUM WIDTH SIGNING DETAIL

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

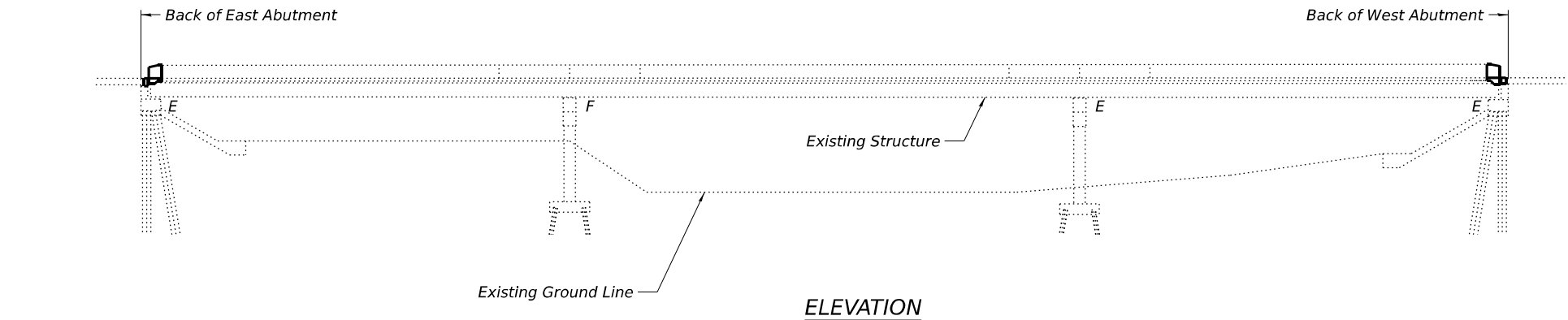
F.A.S RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1412	[(105B)BR]BRR	HENDERSON	25	13
CONTRACT NO. 68J40				
ILLINOIS FED. AID PROJECT				

SCOPE OF WORK

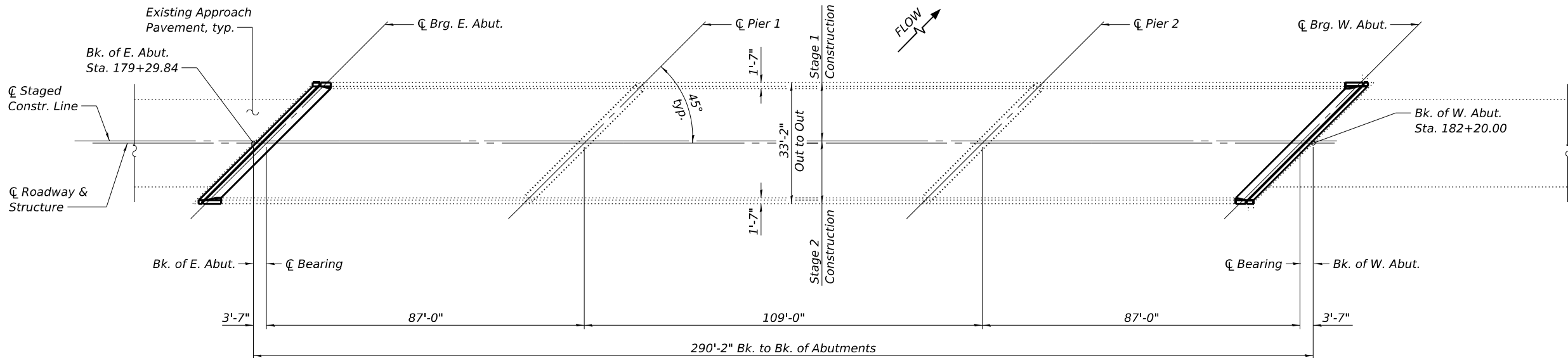
1. Replace expansion joints.
2. Deck slab repair as directed by the Engineer.
3. Structural repair of concrete at abutments.
4. Epoxy Crack Injection at abutments.

INDEX OF SHEETS

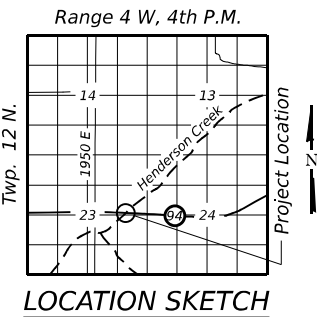
Sheet No.	Description
1	General Plan & Elevations
2	General Data
3	Staging Details
4	Cross Section
5	Joint Removal Details
6	Joint Replacement Details
7	Superstructure Details
8	Temporary Concrete Barrier
9	Preformed Joint Strip Seal
10	Bar Splicer Assembly Details



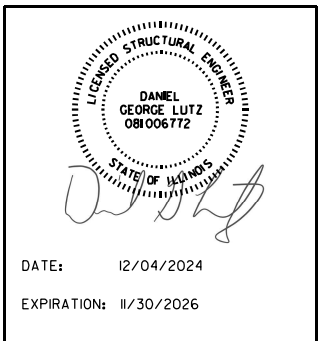
ELEVATION



PLAN



LOCATION SKETCH



DATE: 12/04/2024
EXPIRATION: 11/30/2026

GENERAL PLAN & ELEVATION
IL-94 OVER HENDERSON CREEK
F.A.S RTE. 1412 SEC [(105B)BR]BRR
HENDERSON COUNTY
STATION 180+74.92
STRUCTURE NO. 036-0040

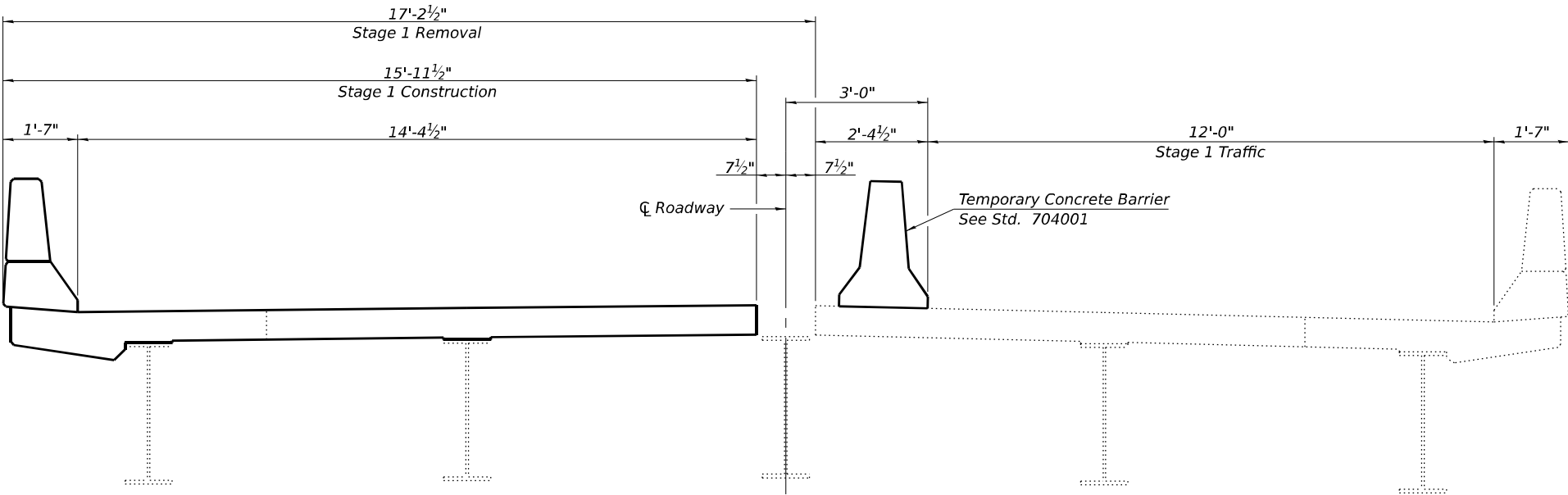
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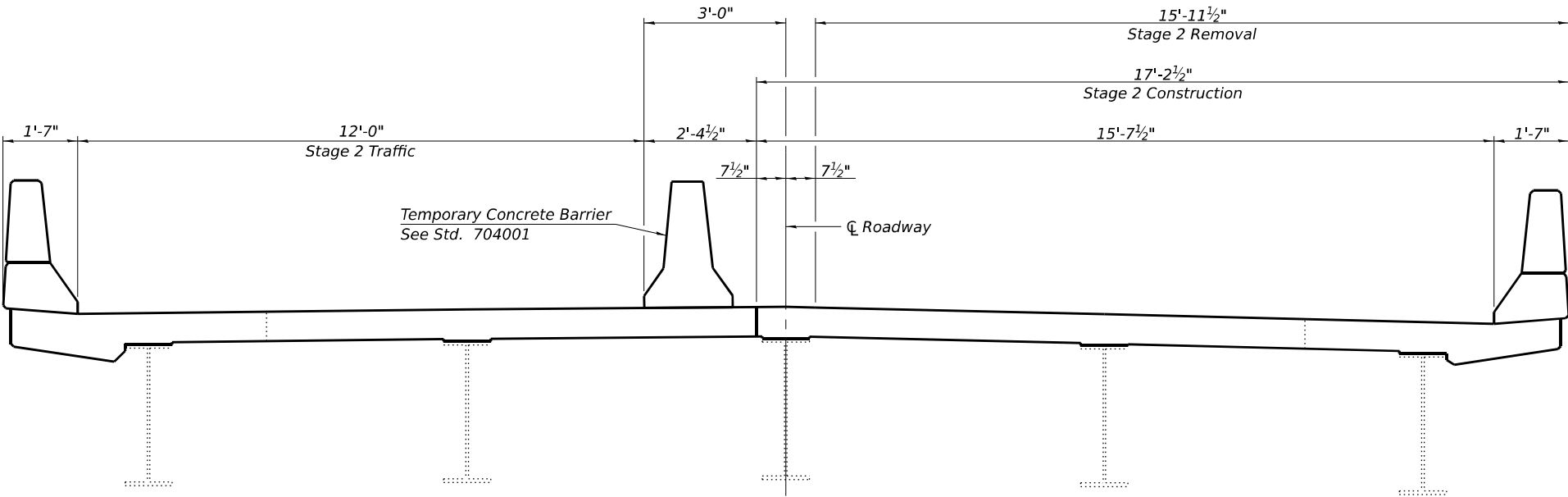
OATES
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STAGE 1 CONSTRUCTION THRU EXPANSION JOINT
(Looking West)



STAGE 2 CONSTRUCTION THRU EXPANSION JOINT
(Looking West)

FILE NAME: H:\P\223104-D4-14\IWO-11-L1-04 over Henderson Creek\Bridge\Final Plans\Illustration\036004-08-L1-03-5 Staging Detail.dgn



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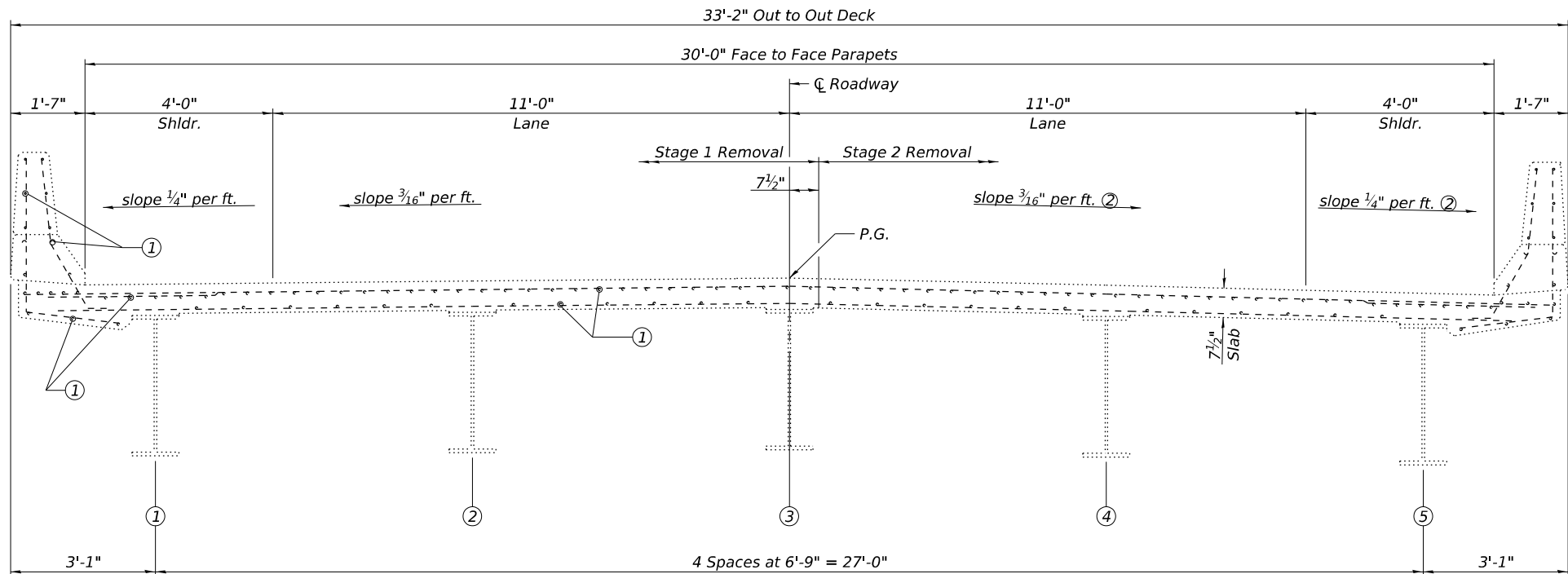
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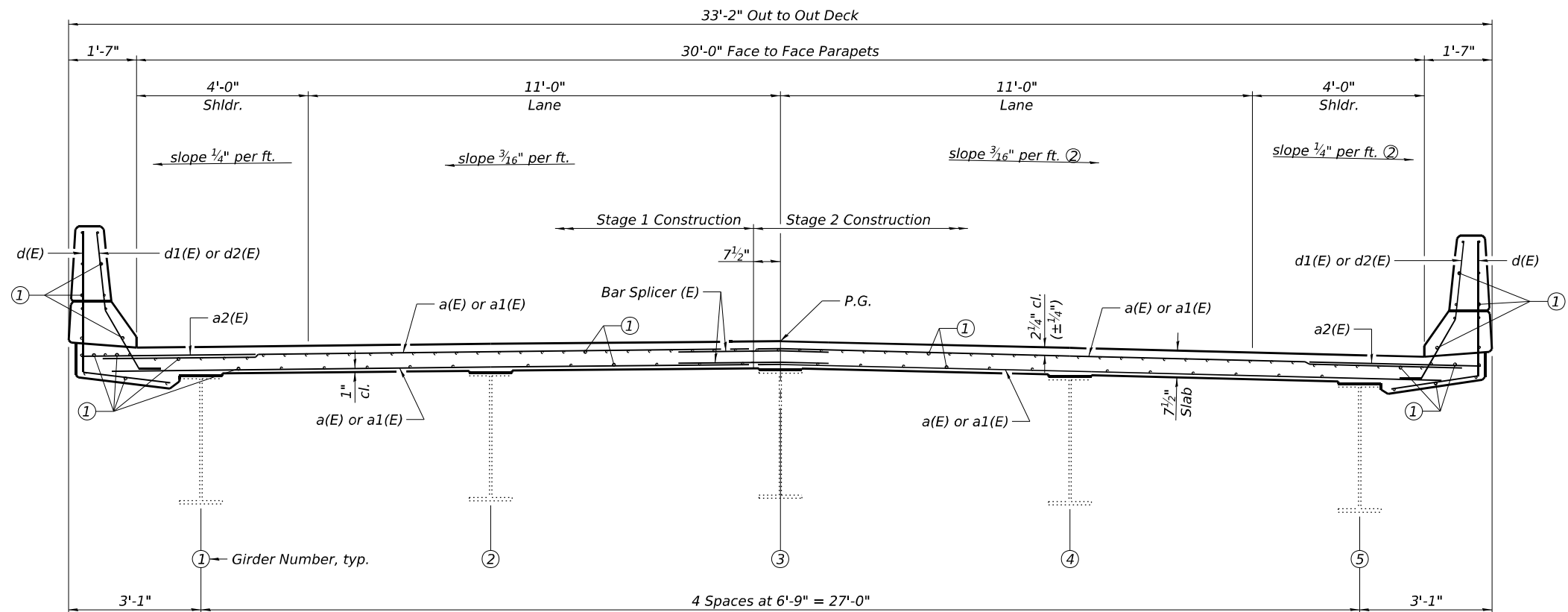
STAGING DETAILS
STRUCTURE NO. 036-0040

SHEET 3 OF 10 SHEETS

F.A.S RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1412	[(105B)BR]BRR	HENDERSON	25	16
CONTRACT NO. 68J40				
		ILLINOIS	FED. AID PROJECT	



EXISTING CROSS SECTION THRU EXPANSION JOINT
(Looking West)



PROPOSED CROSS SECTION THRU EXPANSION JOINT
(Looking West)

- Notes:
 ① Existing reinforcement.
 ② Varies to 0.002 ft. per ft. S.E. at Sta. 182+20.00

FILE NAME: H:\P223104-DA-14\100-11-14-14 over Henderson Creek\Bridges\Final Plans\180000\036000\036000-04-Cross Section.dgn
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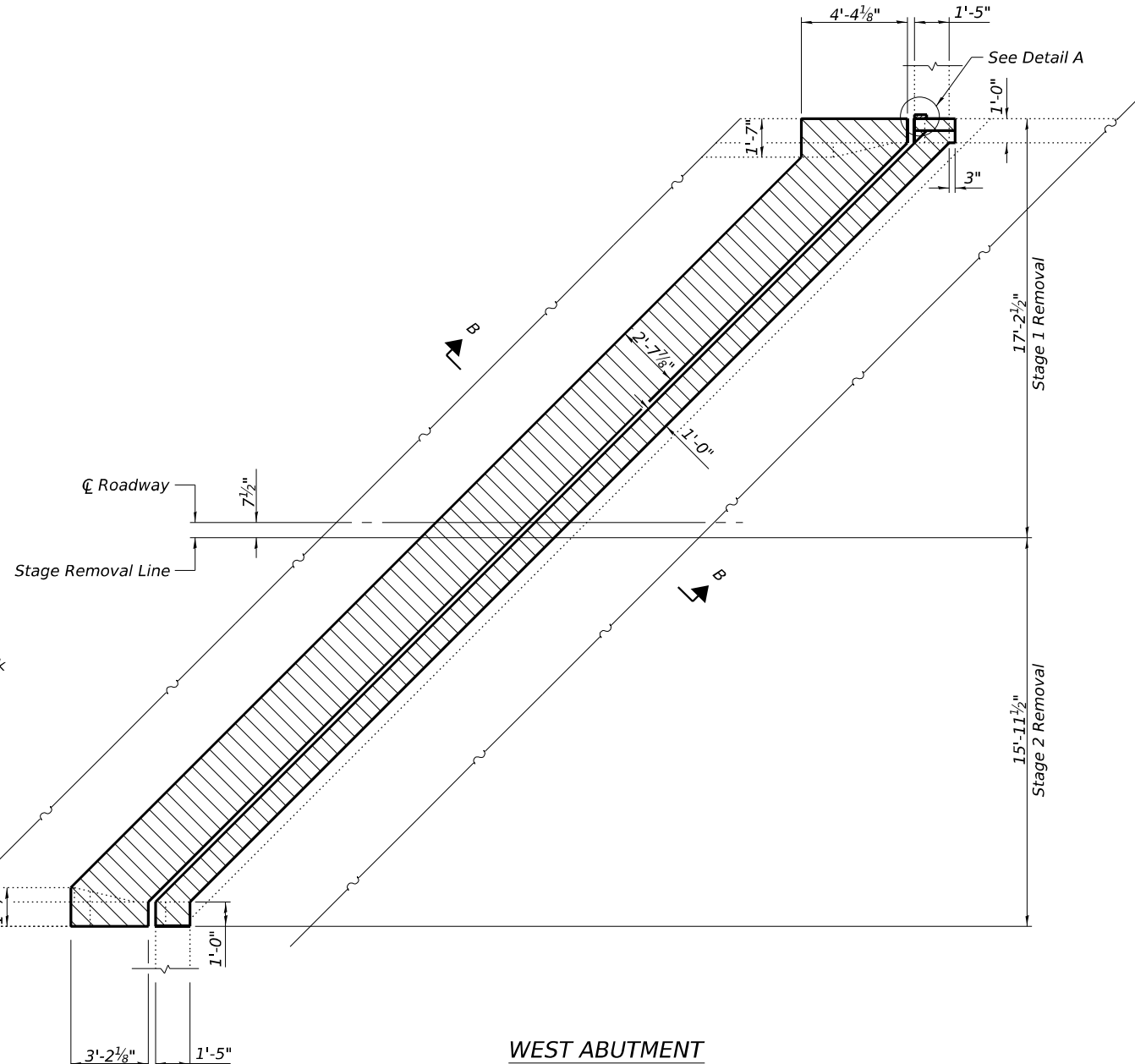
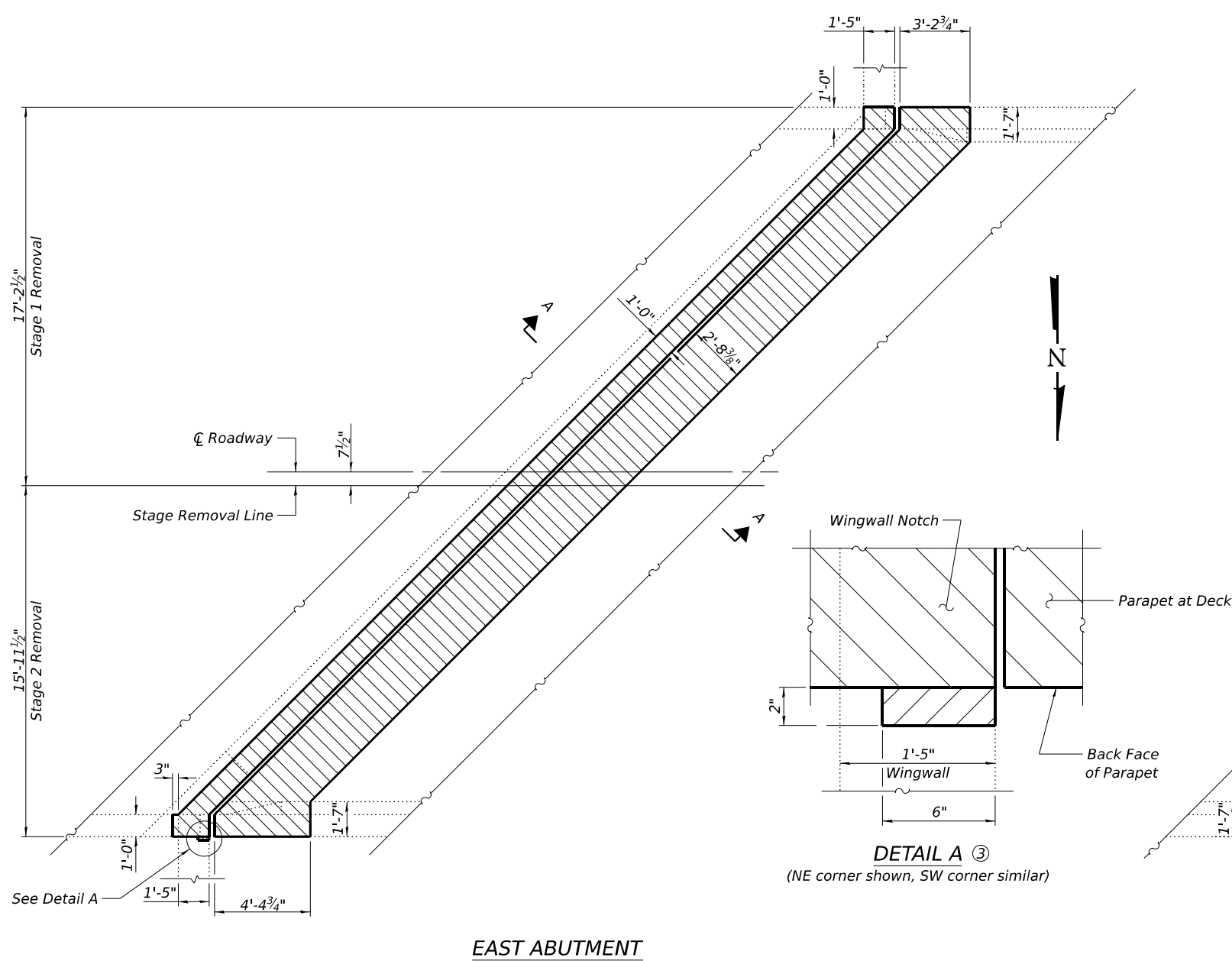
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

CROSS SECTION
 STRUCTURE NO. 036-0040

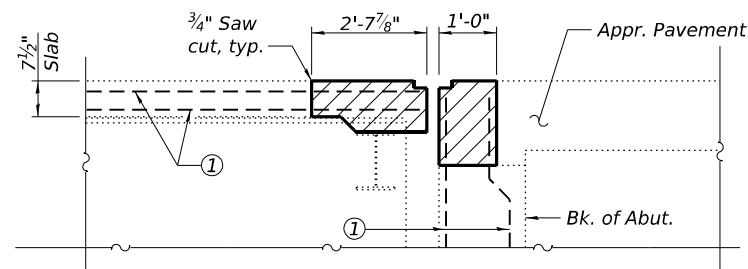
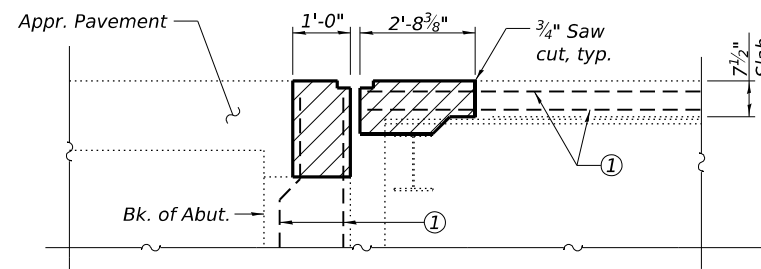
SHEET 4 OF 10 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 68J40				
ILLINOIS FED. AID PROJECT				

FILE NAME: H:\P223104-DA-14\W0-11-LL 3d over Henderson Creek\Bridges\Final Plans\Removal\036004-08-UD-005-Joint Removal Details.dgn
1/30/2025 9:48:05 AM



PLAN



Notes:

- ① Existing reinforcement.
- ② Hatched area represents Concrete Removal.
- ③ Portion of the wingwall notch as shown to be removed at the depth of 9 inches below the approach seat to allow expansion of the deck after joint replacement.



USER NAME = blrsj.budnethokl	DESIGNED - BB	REVISED -
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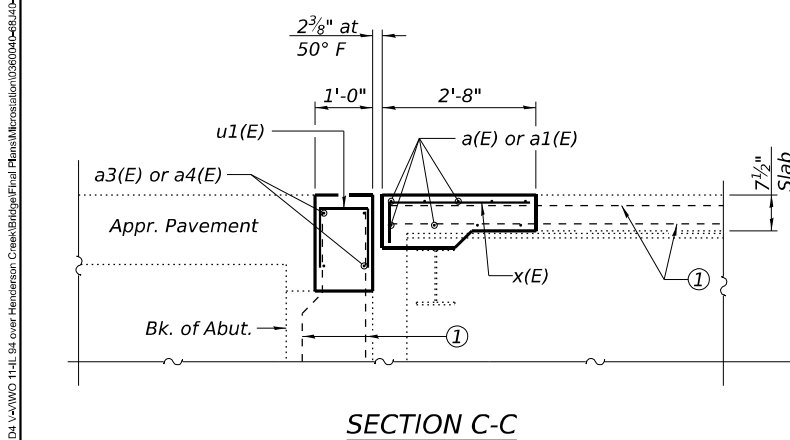
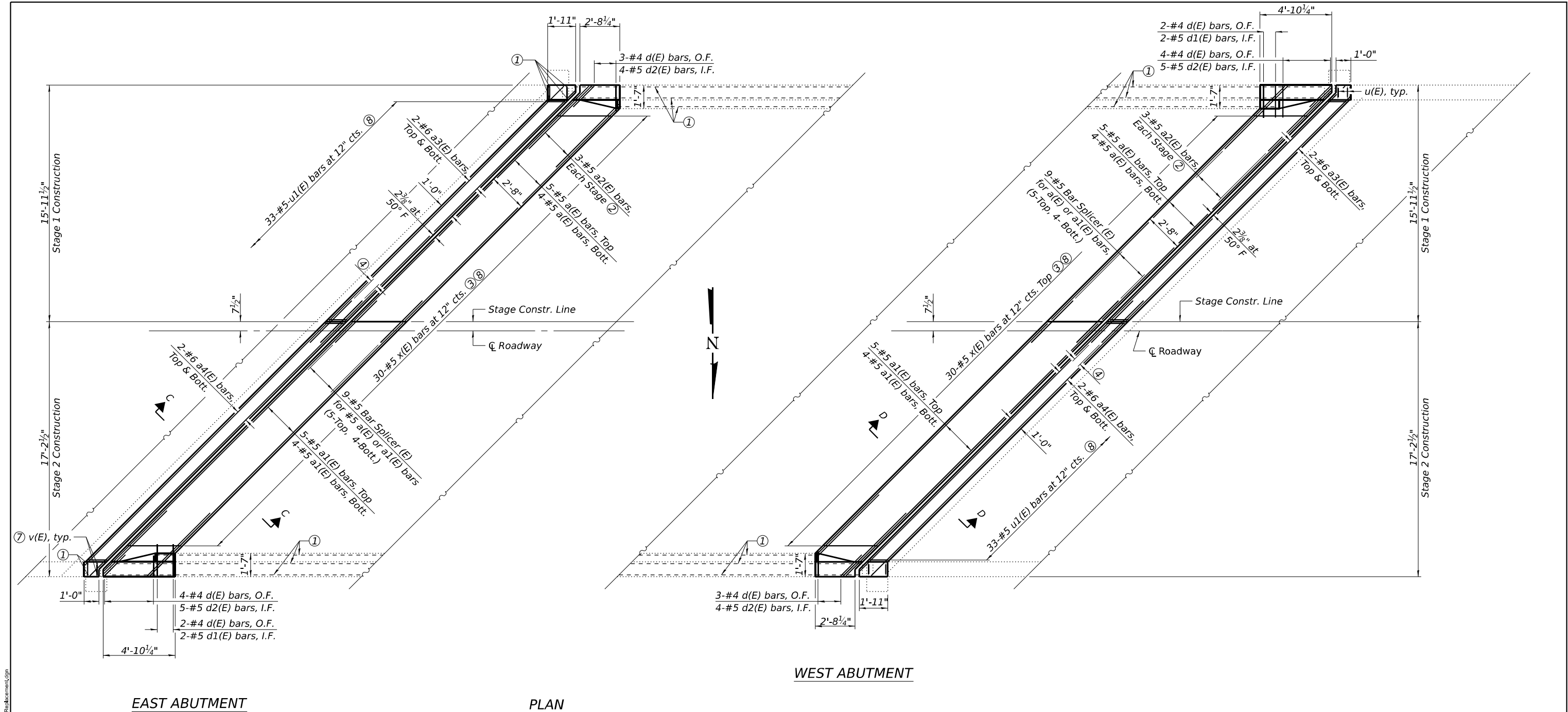
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**JOINT REMOVAL DETAILS
STRUCTURE NO. 036-0040**

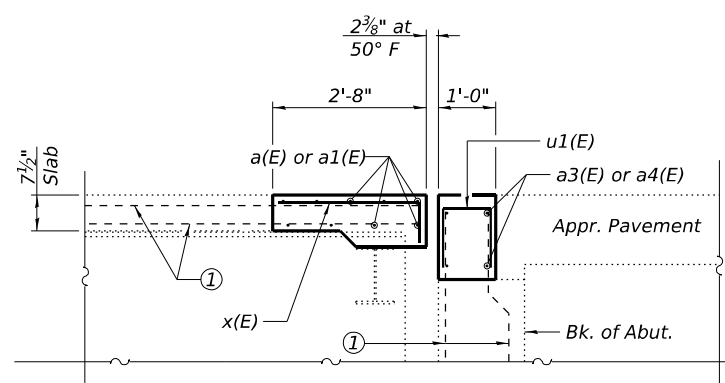
SHEET 5 OF 10 SHEETS

F.A.S RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 68J40				
ILLINOIS FED. AID PROJECT				

FILE NAME: H:\P223104-DA-14\W0-11-LL-14 over Henderson Creek\Bridges\Final Plans\Joint Replacement.dgn
1/30/2025 9:48:06 AM



SECTION C-C



SECTION D-D

- Notes:
- ① Existing reinforcement.
 - ② Lap with alternate a(E) bars.
 - ③ Lap with existing longitudinal b(E) bars, top of slab.
 - ④ 4-#6 Bar Splicer (E) for a3(E) or a4(E) bars, (2-Top, 2-Bott.)
 - ⑤ For bar details, Bill of Material and additional details, see sheet 7 of 10.
 - ⑥ For bar splicer details, see sheet 10 of 10.
 - ⑦ Epoxy grout 2 v(E) bars in 9 inch min. holes according to Art. 584 of the Standard Specifications.
 - ⑧ Bar spacing noted is perpendicular to centerline.

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1/30/2025 9:48:07 AM



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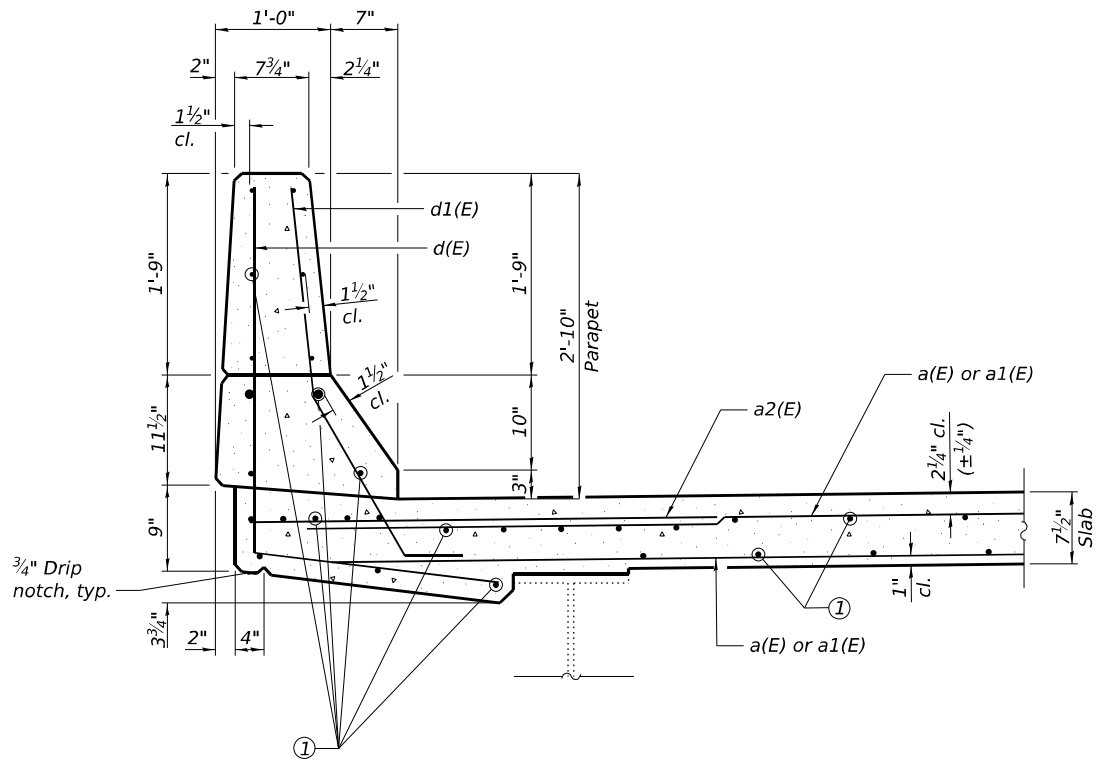
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

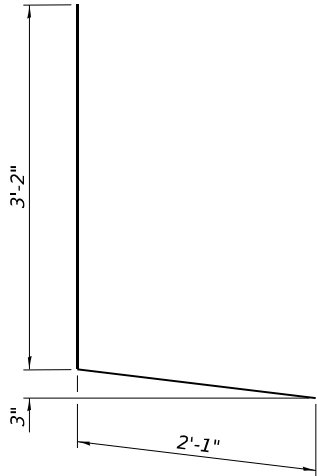
SUPERSTRUCTURE DETAILS
STRUCTURE NO. 036-0040

SHEET 7 OF 10 SHEETS

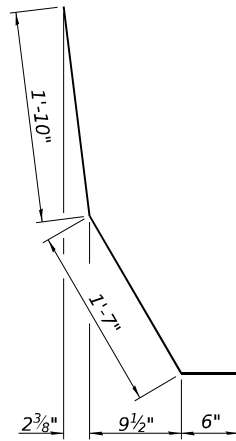
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CONTRACT NO. 68J40				
ILLINOIS FED. AID PROJECT				



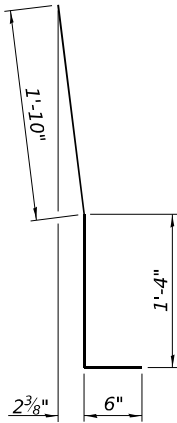
SECTION THRU PARAPET AT JOINT REPLACEMENT
(Showing Bridge Deck)



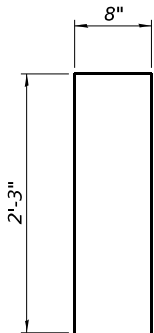
BAR d(E)



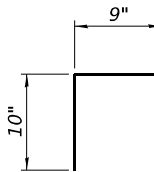
BAR d1(E)



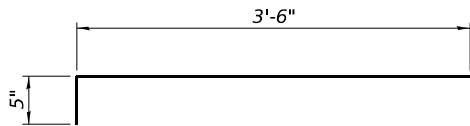
BAR d2(E)



BAR u(E)



BAR u1(E)



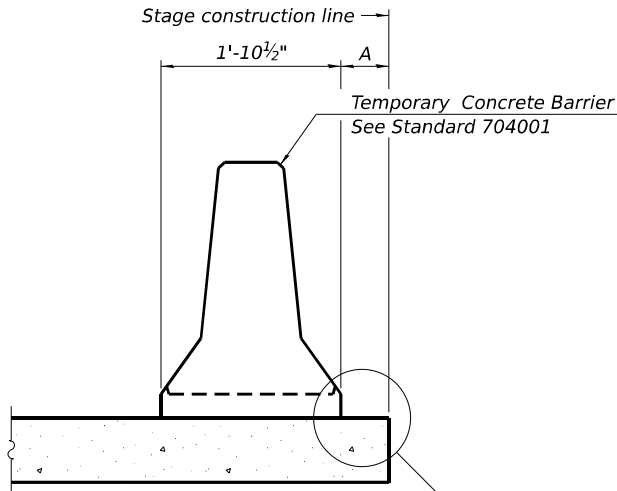
BAR x(E)

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a(E)	18	#5	22'-2"	—
a1(E)	18	#5	24'-0"	—
a2(E)	12	#5	6'-0"	—
a3(E)	8	#6	22'-2"	—
a4(E)	8	#6	24'-0"	—
d(E)	18	#4	5'-3"	L
d1(E)	4	#5	3'-11"	└
d2(E)	18	#5	3'-8"	└
u(E)	8	#4	5'-2"	└
u1(E)	66	#5	2'-5"	└
v(E)	4	#5	5'-6"	—
x(E)	60	#5	3'-11"	└
Concrete Removal			Cu. Yd.	17.2
Concrete Superstructure			Cu. Yd.	18.0
Reinforcement Bars, Epoxy Coated			Pound	2,110

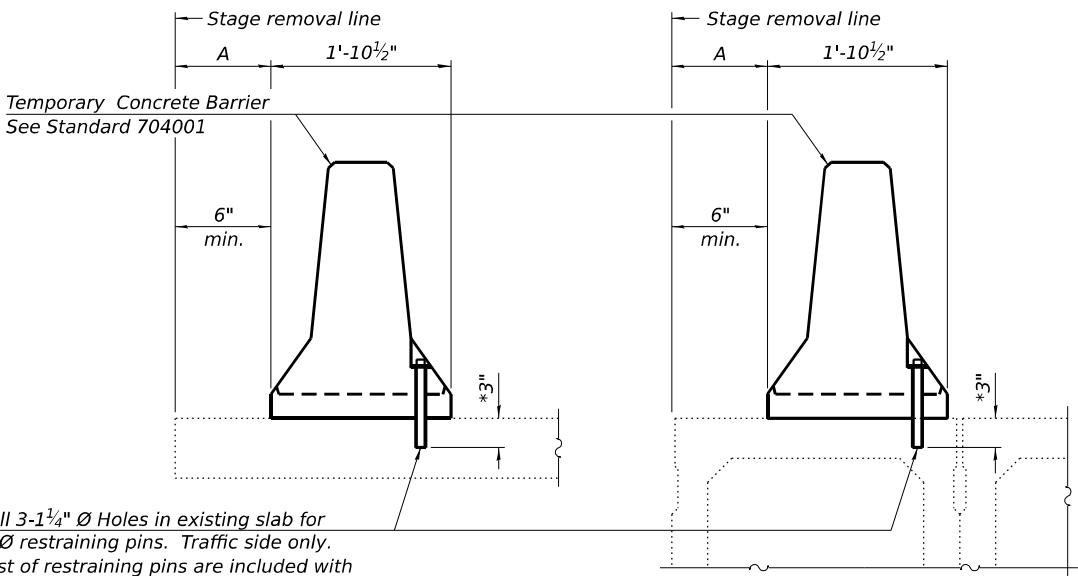
Notes:
① Existing reinforcement.

FILE NAME: H:\P223104-D4-1\NWG-11-IL 1st over Henderson Creek\Bridges\Final Plans\Illustration\0360040-08-10-08-Temporary Concrete Barrier for Stage Construction.dgn
12/9/2024 3:04:12 PM



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

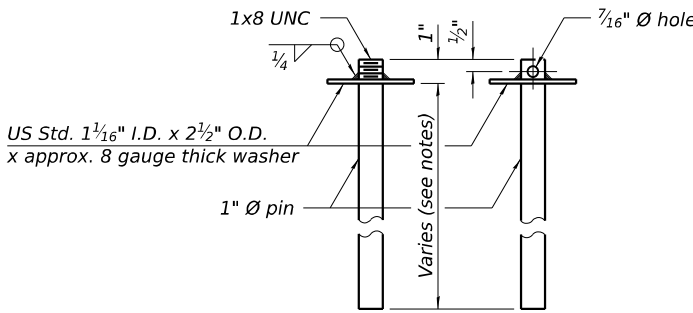
NEW SLAB OR NEW DECK BEAM



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

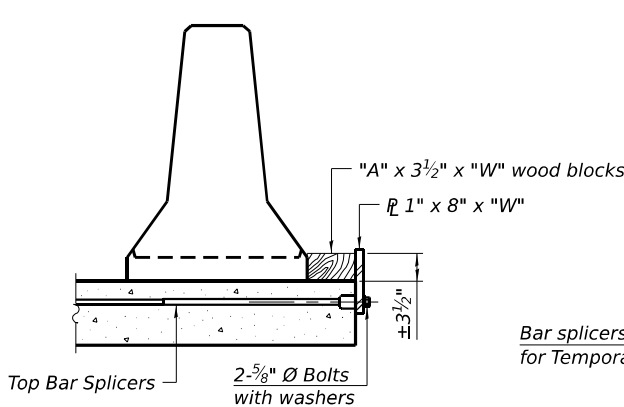
EXISTING SLAB

EXISTING DECK BEAM

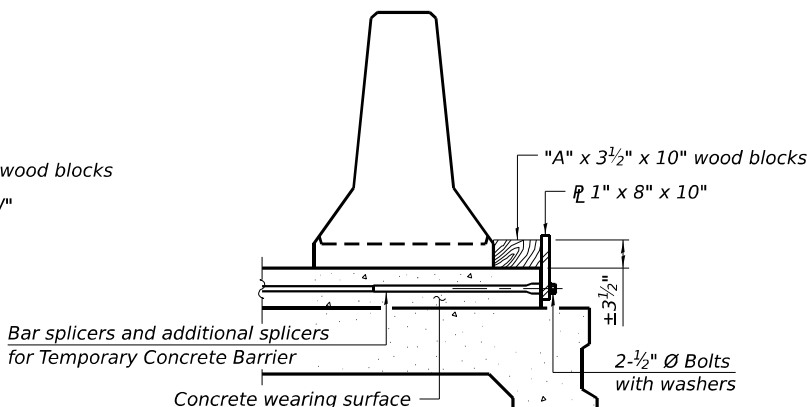


RESTRAINING PIN

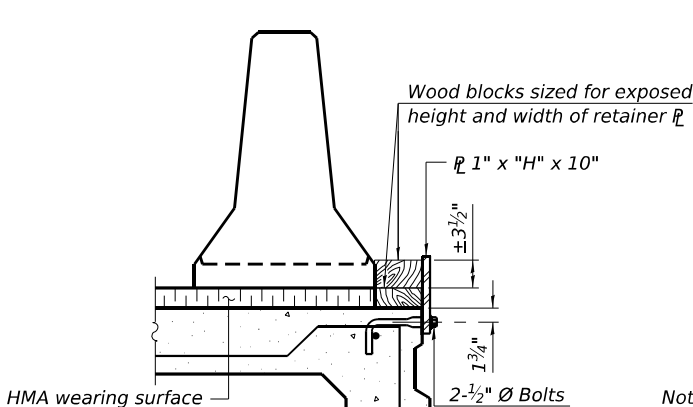
SECTIONS THRU SLAB OR DECK BEAM



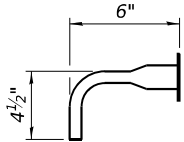
DETAIL I



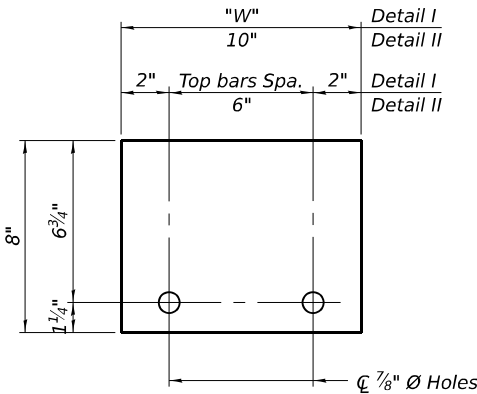
DETAIL II



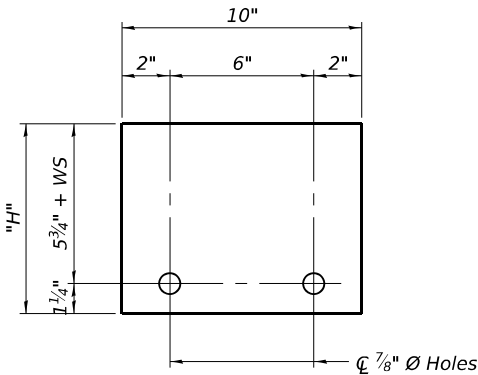
DETAIL III



BAR SPLICER FOR #4 BAR - DETAIL III



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



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

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

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

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

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

RAILING CRITERIA

NCHRP 350 Test Level	3
Railing Weight (plf)	440

R-27

5-15-2023



USER NAME	= b1r3j.budnethokl
PLOT SCALE	= 0:2,0000 " = 1' / in.
PLOT DATE	= 12/9/2024

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CHECKED	- ORG
DRAWN	- BB
CHECKED	- ORG

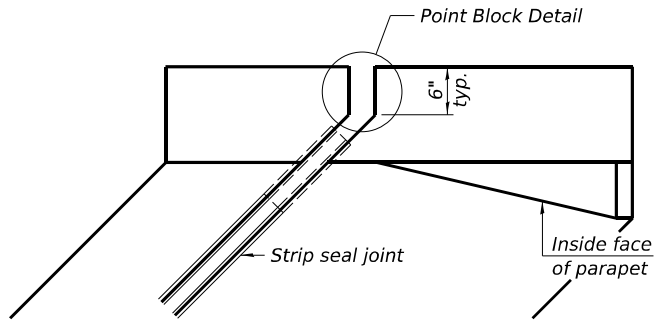
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

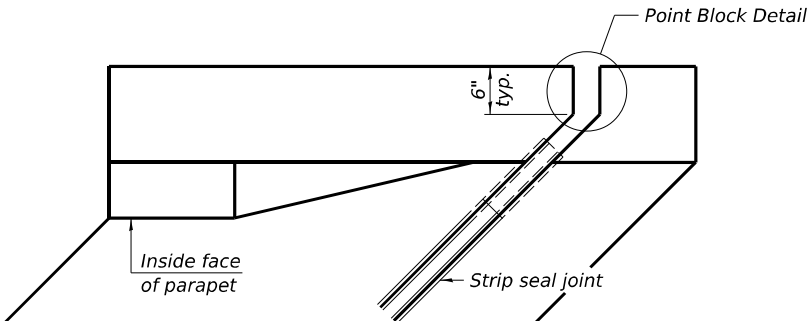
TEMPORARY CONCRETE BARRIERS FOR STAGE CONSTRUCTION
STRUCTURE NO. 036-0040

SHEET 8 OF 10 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1412	[(105B)BR]BRR	HENDERSON	25	21
CONTRACT NO. 68J40				
ILLINOIS FED. AID PROJECT				

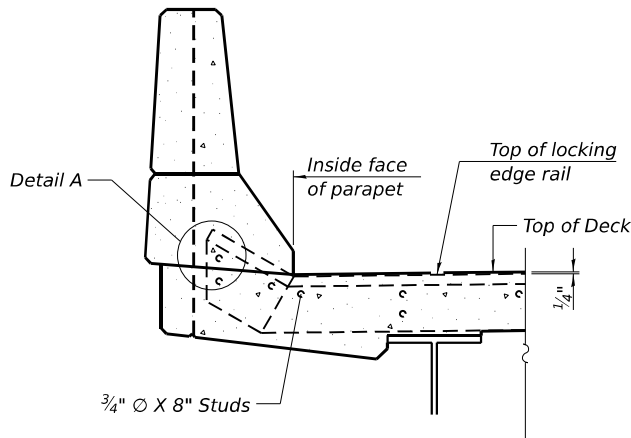


SE parapet shown, NW parapet similar

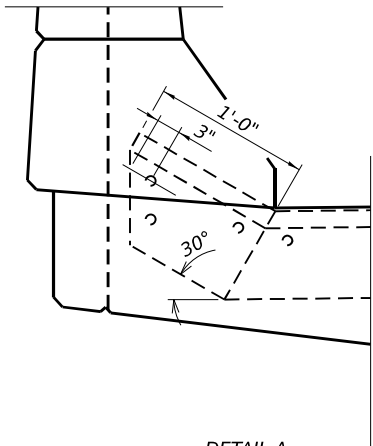


SW parapet shown, NE parapet similar

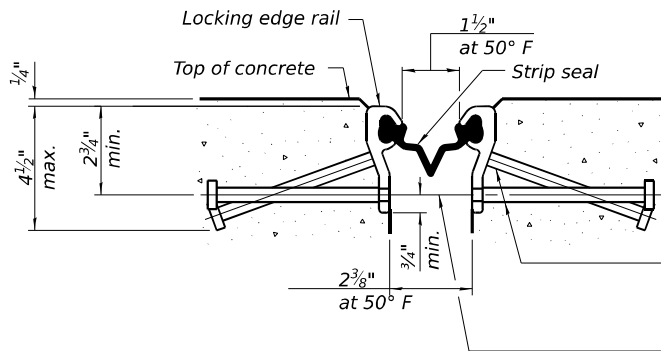
PLAN AT PARAPET



ELEVATION AT PARAPET



DETAIL A



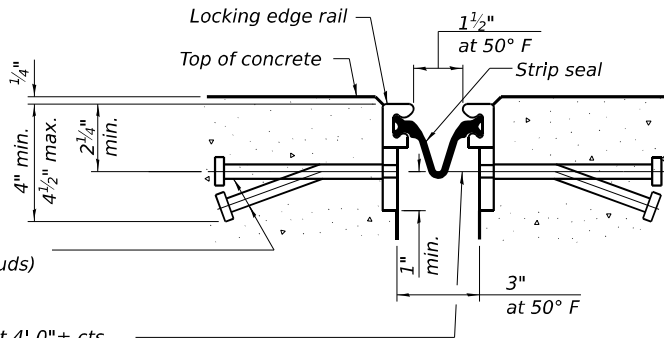
SHOWING ROLLED RAIL JOINT

* 5/8" Ø x 6" studs @ 6" cts. (alternate angled/bent studs with horizontal studs)

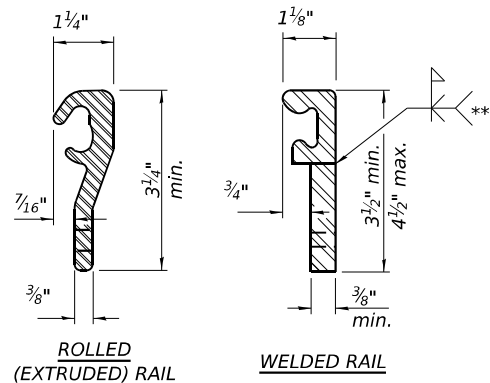
3/8" Ø threaded rods in 7/16" Ø holes at 4'-0"± cts. for holding the proper joint opening based on the temperature during the deck pour. Place to miss studs. All rods shall be burned, or sawed off flush with the plates after concrete is set.

SECTION A-A

* Granular or solid flux filled headed studs conforming to Article 1006.32 of the Std. Specs., automatically end welded.

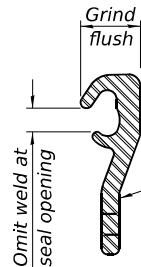


SHOWING WELDED RAIL JOINT



LOCKING EDGE RAILS

** Back gouge not required if complete joint penetration is verified by mock-up.



LOCKING EDGE RAIL SPLICE

The inside of the locking edge rail groove shall be free of weld residue. Rolled rail shown, welded rail similar.

BILL OF MATERIAL

Item	Unit	Total
Preformed Joint Strip Seal	Foot	90

Notes:

The strip seal shall be made continuous and shall have a minimum thickness of 1/4". The configuration of the strip seal shall match the configuration of the locking edge rails. Open or "webbed" strip seal gland configurations are not permitted. The gland shall be sized for a maximum rated movement of 4 inches.

The locking edge rails depicted are configured for typical applications and are conceptual only. The actual configuration of the locking edge rails and matching strip seal may vary from manufacturer to manufacturer provided they fit the application and meet the minimum anchorage shown. Flanged edge rails, however, will not be allowed.

The manufacturer's recommended installation methods shall be followed.

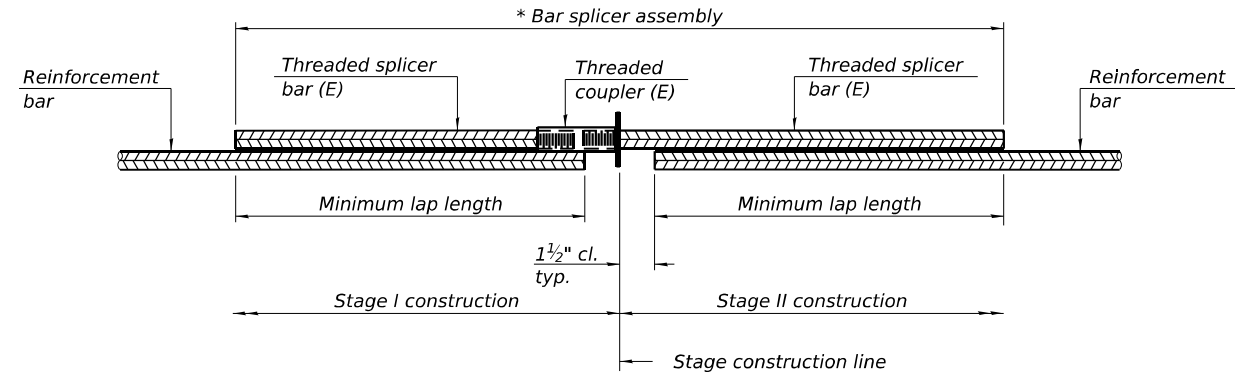
All steel components shall be galvanized after fabrication according to Article 520.03 of the Standard Specifications.

The Maximum space between locking edge rail segments shall be 3/16" and sealed with a suitable sealant; however, any rail joint within 10' measured perpendicular to the face of the curb or parapet shall be welded as shown in the locking edge rail splice detail.

Cost of parapet sliding plates, embedded plates, and anchorage studs included with Preformed Joint Strip Seal.

34" F-shape barrier shown.

The concrete opening below the strip seal will vary based on the locking edge rail chosen by the Contractor. Deck and parapet lengths shown elsewhere in the plans are dimensioned to the concrete opening, not the joint opening, and are based on the rolled locking edge rail. If the Contractor elects to use a different locking edge rail, dimensional adjustments may be required. One exception to this would be the strip seal joint at the end of the precast bridge approach slab. For these cases the pavement connector length shall be adjusted, not the length of the bridge approach slab.



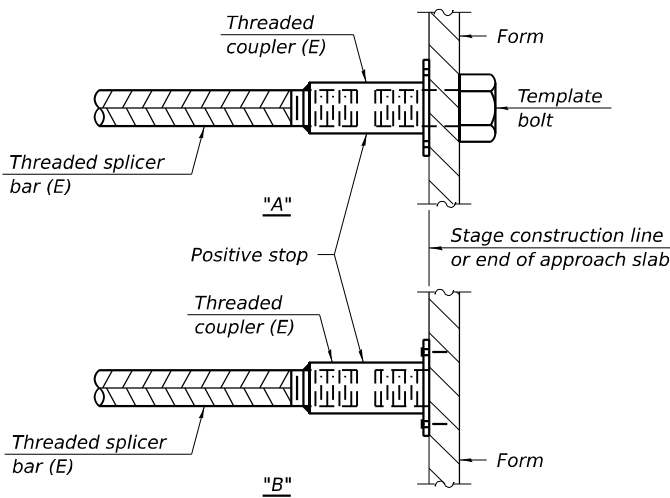
STANDARD BAR SPLICER ASSEMBLY PLAN

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

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

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

Location	Bar size	No. assemblies required	Minimum lap length
Deck	#5	18	3'-6"
Abut. Hatchblock	#6	8	4'-10"

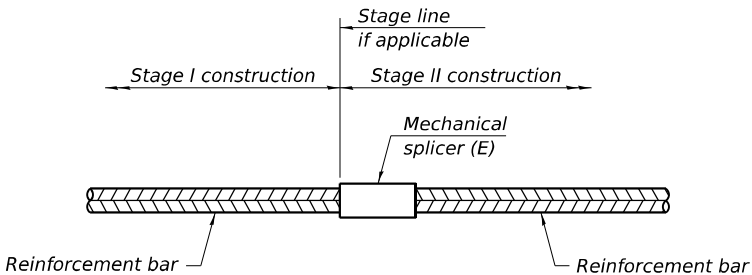


INSTALLATION AND SETTING METHODS

"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.

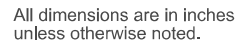
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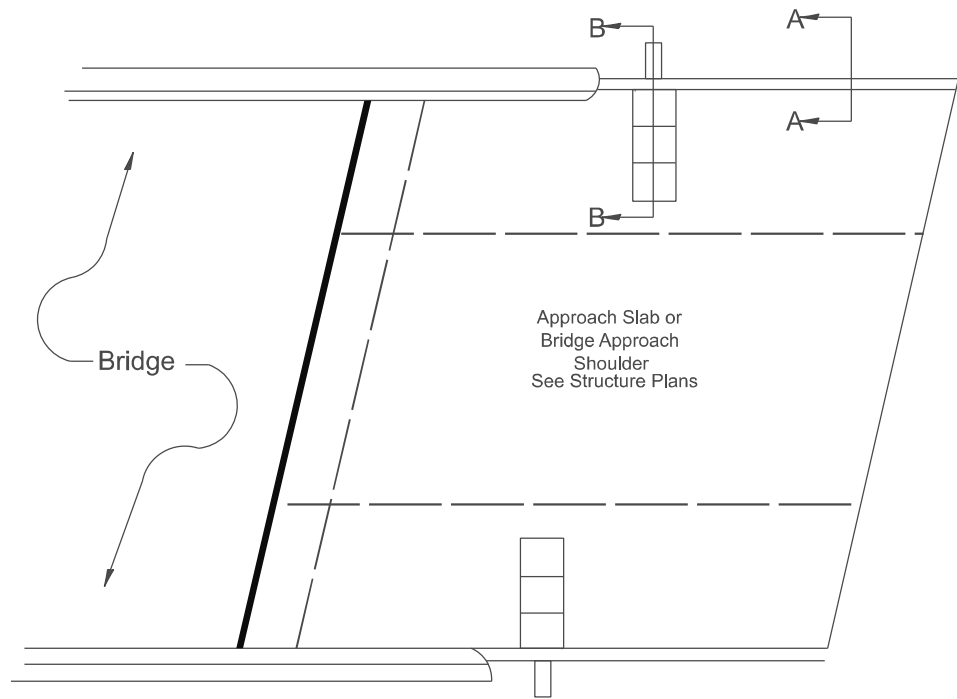
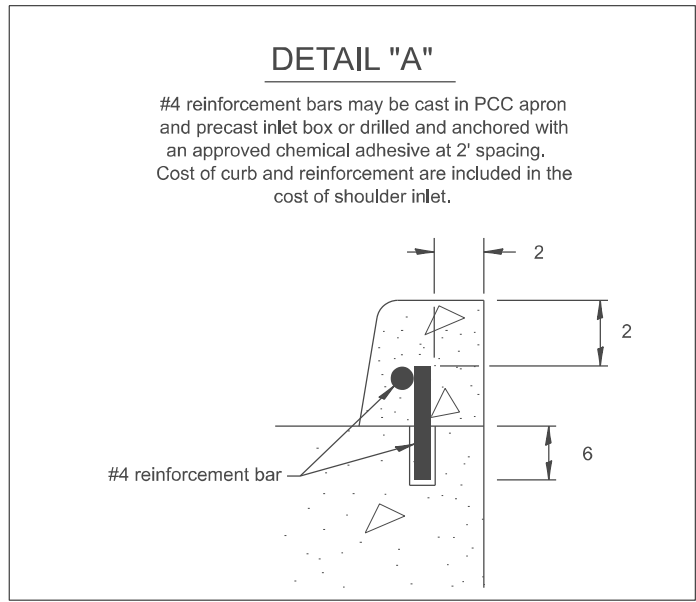
1. This work shall consist of grading as needed, furnishing and installing geotextile fabric and staples, and furnishing, placing and shaping crushed aggregate around and behind Steel Plate Beam Guardrail posts in accordance with Plan Details.
2. Before placing the aggregate and the Geotextile Fabric, weeds and grass shall be removed from the area to be covered.
3. After the area has been prepared, and in a dry condition, the Geotextile fabric shall be placed with a 12 minimum overlap. A knife cut for guardrail post installation is necessary.
4. The aggregate shall be deposited, compacted and shaped by either mechanical or hand methods, in a manner reasonably true to line and grade.
5. The Contractor shall have the option of placing the guardrail before or after the Geotextile Fabric and Aggregate are in place. If the guardrail is placed after the Geotextile Fabric and Aggregate, then any voids must be filled and the aggregate returned to line and grade.
6. Materials shall meet the following requirements:
 - A. The crushed aggregate shall be CA1 gradation in accordance with Article 1004.01(c) of the Standard Specifications.
 - B. The Geotextile Fabric shall be nonwoven fabric in accordance with Article 1080.02 of the Standard Specifications.



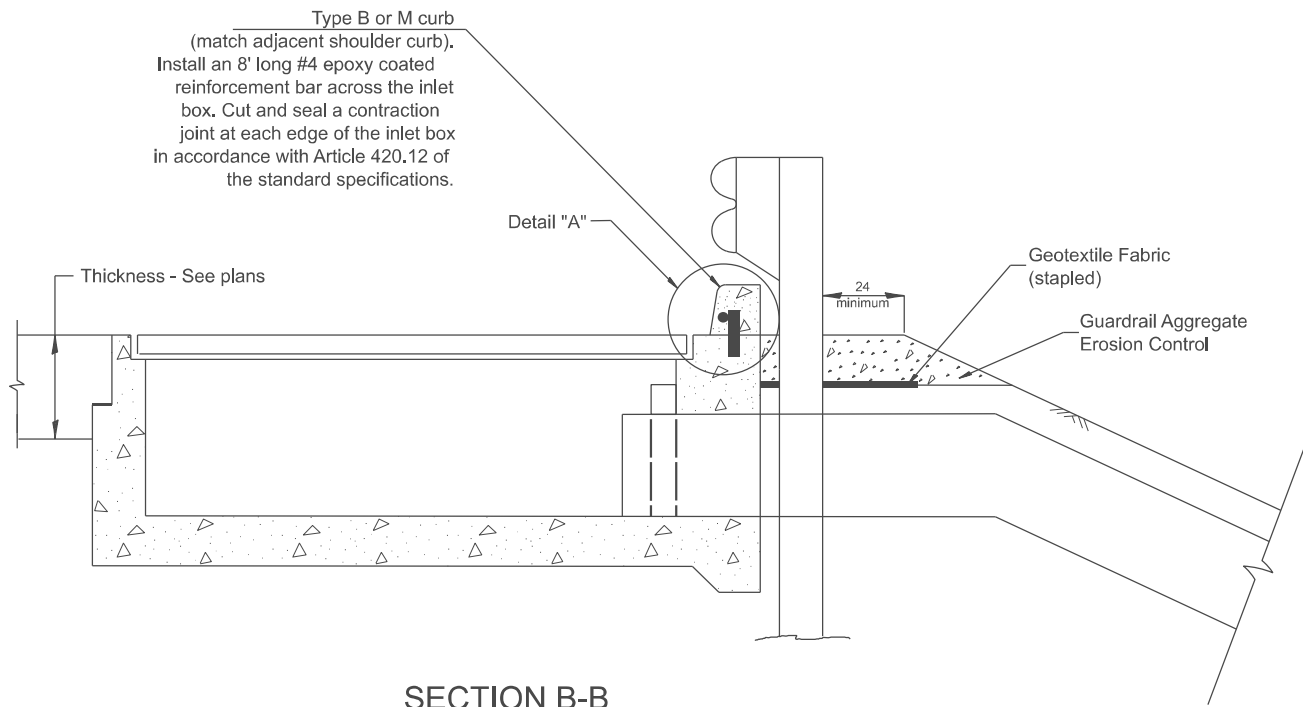
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1412	[(105B)BR]BRR	HENDERSON	25	24
DISTRICT 4 DETAIL NO. 630101		CONTRACT NO. 68J40		
ILLINOIS		FED. AID PROJECT		

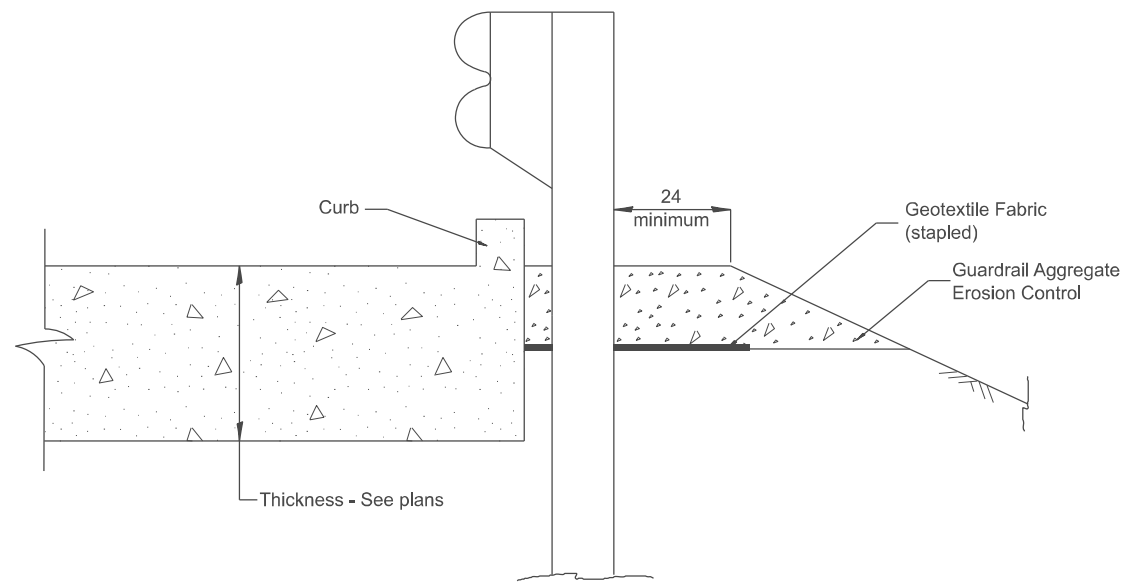
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PLAN VIEW
APPROACH SLAB OR SHOULDER PLACEMENT



SECTION B-B
TYPICAL SECTION AT INLETS
TYPE E, F & G (HIGHWAY STANDARD 610001)



SECTION A-A
TYPICAL SECTION WITH BRIDGE APPROACH CURB

All dimensions are in inches unless otherwise noted.

USER NAME = Eric.Thomas	DESIGNED -	REVISED -
	DRAWN -	REVISED -
	CHECKED -	REVISED -
PLOT DATE = 12/7/2022	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GUARDRAIL EROSION CONTROL TREATMENTS

SCALE: NOT TO SCALE SHEET 2 OF 2 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1412	[(105B)BR]BRR	HENDERSON	25	25
DISTRICT 4 DETAIL NO. 630101		CONTRACT NO. 68J40		
ILLINOIS		FED. AID PROJECT		