

**INDEX OF SHEETS**

1. COVER SHEET AND INDEX OF SHEETS
- 2-3. GENERAL NOTES AND PROJECT SPECIFIC NOTES
- 4-7. SUMMARY OF QUANTITIES
8. TYPICAL SECTIONS
9. SCHEDULE OF QUANTITIES
10. EXISTING AND REMOVAL S.N. 036-0044
11. EXISTING AND REMOVAL S.N. 036-0045
12. PROPOSED PLAN S.N. 036-0044
13. PROPOSED PLAN S.N. 036-0045
- 14-16. STAGING DETAILS S.N. 036-0044
- 17-19. STAGING DETAILS S.N. 036-0045
- 20-22. STRUCTURE DETAILS S.N. 036-0044
- 23-30. STRUCTURE DETAILS S.N. 036-0045
31. GUARDRAIL DETAILS S.N. 036-0044
32. GUARDRAIL DETAILS S.N. 036-0045
- 33-39. DISTRICT CADD STANDARDS

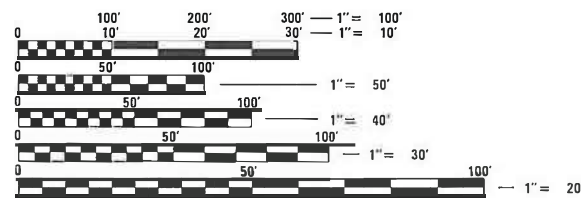
**HIGHWAY STANDARDS**

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630001-12	701321-18
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630301-09	704001-08
631031-18	725001-01
631033-09	780001-05
701001-02	782006-01
701006-05	
701201-05	
701301-04	

ADT = 1600 (2021)  
 SU = 3.1%  
 MU = 10.6%

IL 96 OVER  
 CAMP CREEK  
 (S.N. 036-0044)

IL 96 OVER WEAVER  
 CREEK (S.N. 036-0045)



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

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

PROJECT ENGINEER: RICH DOTSON (309)671-3455  
 PROJECT MANAGER: GERARDO COVARRUBIAS (309)671-3473

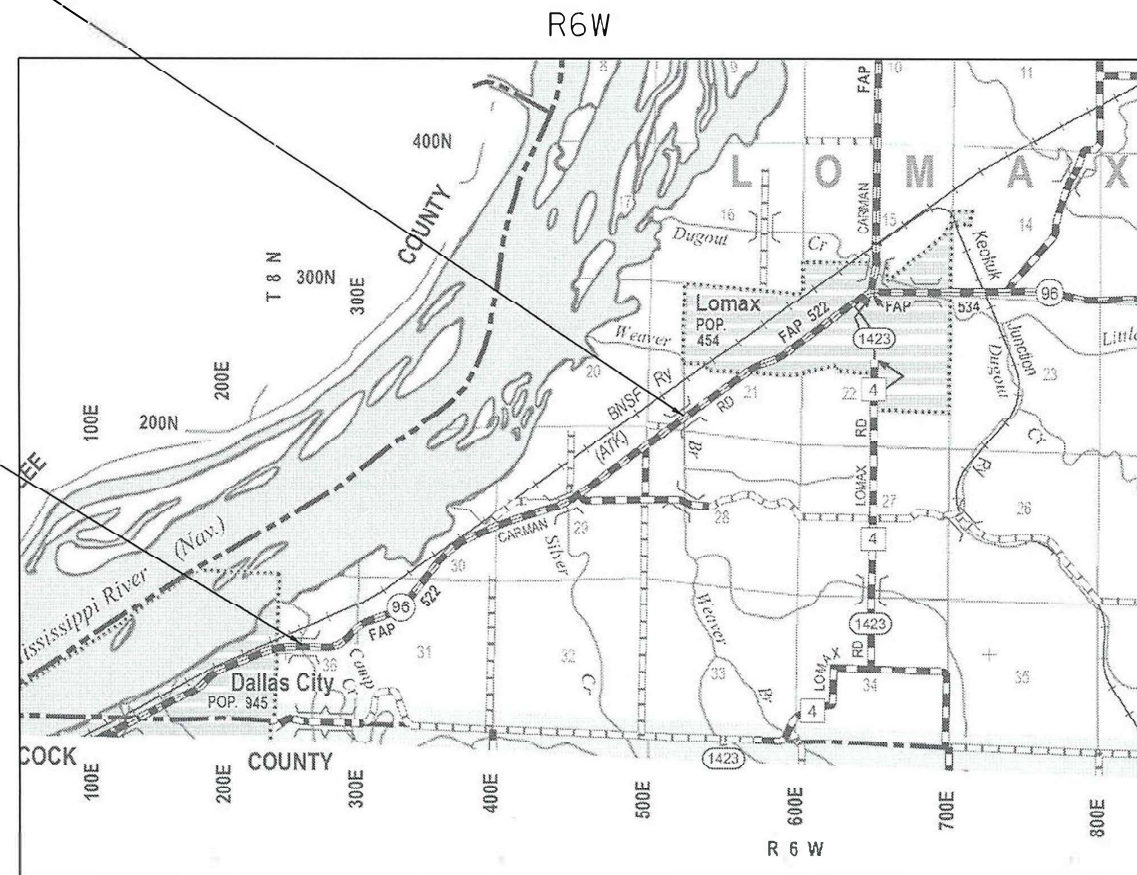
CONTRACT NO. 68G41

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

**PROPOSED  
 HIGHWAY PLANS**

FAP 522 (IL ROUTE 96)  
 SECTION [6B-2-BR;(6B-3-BR)BJR]BRR,BDR  
 PROJECT HBFP-WXBC(468)  
 BRIDGE PRESERVATION  
 HENDERSON COUNTY

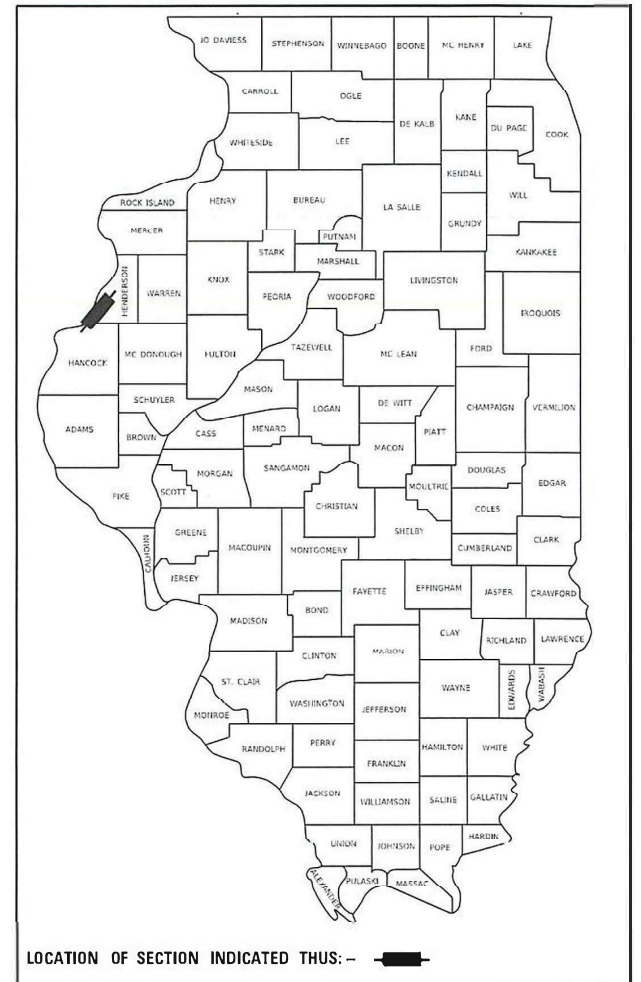
C-94-062-21



GROSS LENGTH = 17588.0 FT. = 3.331 MILE  
 NET LENGTH = 560.53 FT. = 0.106 MILE

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
522	[6B-2-BR;(6B-3-BR)BJR]BRR,BDR	HENDERSON	39	1
		ILLINOIS		CONTRACT NO. 68G41

D-94-043-21



**PROJECT DESCRIPTION:**

Work includes bridge deck and approach scarification, microsilica overlay, joint replacement, and replacement of existing guardrail.

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

SUBMITTED Dec 14 2022  
Kenneth A. Barnett RSO  
 REGIONAL ENGINEER

February 3, 2023  
[Signature]  
 ENGINEER OF DESIGN AND ENVIRONMENT

February 3, 2023  
[Signature]  
 DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

**PRINTED BY THE AUTHORITY  
 OF THE STATE OF ILLINOIS**

# GENERAL NOTES

## COMMITMENTS

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

The Contractor shall contact Mr. Don Smith (319) 753-2297 with Cessford Construction at least one week before traffic control is set up at S.N. 036-0044 over Camp Creek. The Contractor shall provide Mr. Smith with the Contractors contact information so any required access to the quarry property (north and south sides of IL 96) located just west of the structure can be coordinated while traffic control is in place. When access is required, the Contractor shall move barricades and use flaggers, as necessary, to allow safe entry and exit at the entrances.

## 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.

## BRIDGE OVERLAY NOTIFICATION

After placement of the bridge deck overlay, the Resident Engineer shall notify the District Bridge Maintenance Engineer of the "as constructed" milling depth and overlay thickness for updating the Illinois Highway Information System.

## POLYMERIZED BITUMINOUS MATERIALS (TACK COAT) RATES

Surface Type	Residual Rate
Milled (HMA or PCC)	0.08 lb /sq ft
Existing Pavement	0.08 lb /sq ft
Fog Coat (between lifts)	0.08 lb /sq ft

## NO PASSING ZONE VERIFICATION

The resident shall contact Operations to verify the location of no passing zones prior to placement of centerline striping.

## HOT-MIX ASPHALT MIXTURE REQUIREMENTS

Mixture Use(s):	Surface Course	Binder Course	Shoulders (All Lifts)
AC/PC:	PG 58-28	PG 58-28	PG 58-28
Design Air Voids:	4.0% @ N=50	4.0% @ N=50	4.0% @ N=50
Mixture Composition: (Gradation Mixture)	IL 9.5	IL 9.5	IL 9.5
Friction Aggregate:	Mix D	N.A.	Mix C
Quality Management:	QCQA	QCQA	QCQA
MTD (YES OR NO):	No	No	No

### Notes:

- 1) Individual lift thickness of each mix type will be no less than 3 times nominal maximum aggregate size and no more than 6 times nominal maximum aggregate size, unless otherwise approved by the Engineer.
- 2) For design purposes, mixture weight for all mixes is determined to be 112.0 lb/s.y/in., unless otherwise noted.
- 3) Sublot size for PFP and QCP mixes will be 600 tons, unless otherwise agreed to by the Engineer and the paving contractor.

## BUTT JOINT CUTTING TIME RESTRICTION

Butt joints shall not be milled more than three (3) days prior to placement of the HMA surface course.

## PAVING SURFACE COURSE

Continuous paving operations on the main roadway shall be maintained at all times during the construction of the hot-mix asphalt surface. No interruptions for side roads, entrances, turn lanes, etc. will be allowed.

## SECURING DRAINAGE STRUCTURE GRATES

Prior to routing traffic onto the shoulders as shown in the staging plans, the Contractor shall secure gratings on shoulder inlets as directed by the Engineer. This work will not be paid for separately, but shall be included in the cost of the traffic control pay item.

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	DRAWN -	REVISED -
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PLOT DATE = 12/14/2022	DATE -	REVISED -

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**GENERAL NOTES AND PROJECT**  
**SPECIFIC NOTES**

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
522	6B-2-BR:(6B-3-BR)BJR]BRR,BDR	HENDERSON	39	2
			CONTRACT NO. 68G41	
		ILLINOIS	FED. AID PROJECT	

**GENERAL NOTES CONT.**

**NO PASSING ZONE VERIFICATION**

The resident shall contact Operations to verify the location of no passing zones prior to placement of centerline striping.

**PROJECT SPECIFIC NOTES**

The bridges structure number shall be painted on the face of each concrete parapet. Each set of numbers shall be stenciled onto the leading right hand corner of the bridge when approached in the direction of traffic. The number shall be 2" tall. The structure number is in the format of xxx-xxxx. The number shall be painted in black. The paint material is allowed to be paint cans obtained from any home improvement store. The paint shall be advertised as a professional enamel spray that is suitable for exterior concrete and metal surfaces. This work shall be considered included in the cost of the various structure pay items in the plans.

Any work required to provide access at the quarry entrances located west of S.N. 036-0044 at Camp Creek (as described in the commitment) shall be paid for in accordance with Article 109.04 of the Standard Specifications.

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PLOT DATE = 12/14/2022	DATE -	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**GENERAL NOTES AND PROJECT  
 SPECIFIC NOTES**

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
522	6B-2-BR;(6B-3-BR)BJR]BRR,BDR	HENDERSON	39	3
CONTRACT NO. 68G41				
ILLINOIS FED. AID PROJECT				

CCNST . CODE	CONST . CODE
80% FED 20% STATE	80% FED 20% STATE
BRIDGE	BRIDGE
0013	0013

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	SN 036-0044	SN 036-0045
20200100	EARTH EXCAVATION	CU YD	83	38	45
40600295	POLYMERIZED BITUMINOUS MATERIALS (TACK COAT)	POUND	1836	974	862
40600982	HOT - MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	857	469	388
40602978	HOT-MIX ASPHALT BINDER COURSE, 1L-9.5, N50	TON	58	32	26
40604060	HOT-MIX ASPHALT SURFACE COURSE, 1L-9.5, MIX "D", N50	TON	43	24	19
44000165	HOT - MIX ASPHALT SURFACE REMOVAL, 4"	SQ YD	413	203	210
48203100	HOT - MIX ASPHALT SHOULDERS	TON	167	89	78
50102400	CONCRETE REMOVAL	CU YD	14.9	0.9	14
50300255	CONCRETE SUPERSTRUCTURE	CU YD	16.5	0.9	15.6
50300260	BRIDGE DECK GROOVING	SQ YD	1289	592	697
50300300	PROTECTIVE COAT	SQ YD	1358	632	726
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	1810		1810
50800515	BAR SPLICERS	EACH	26		26
52000110	PREFORMED JOINT STRIP SEAL	FOOT	84		84
60300105	FRAMES AND GRATES TO BE ADJUSTED	EACH	2		2

MODEL SHEET: 50-1514  
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PLOT DATE = 12/14/2022	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**SUMMARY OF QUANTITIES  
S.N. 036-0044 AND S.N. 036-0045**

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
522	6B-2-BR:(6B-3-BR)BJR]BRR,BDR	HENDERSON	39	4
			CONTRACT NO. 68G41	
		ILLINOIS	FED. AID PROJECT	

CONST. CODE	CONST. CODE
80% FED 20% STATE	80% FED 20% STATE
BRIDGE	BRIDGE
0013	0013

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	SN 036-0044	SN 036-0045
* 63000001	STEEL PLATE BEAM GUARD RAIL, TYPE A, 6 FOOT POSTS	FOOT	1638	563	1075
* 63100085	TRAFFIC BARRIER TERMINAL, TYPE 6	EACH	4		4
* 63100089	TRAFFIC BARRIER TERMINAL, TYPE 6B	EACH	4	4	
* 63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	6	2	4
* 63100169	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) FLARED	EACH	2	2	
63200310	GUARDRAIL REMOVAL	FOOT	1406	565	841
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	5	2.5	2.5
67100100	MOBILIZATION	L SUM	1	0.5	0.5
70100405	TRAFFIC CONTROL AND PROTECTION, STANDARD 701321	EACH	2	1	1
70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	L SUM	1	0.5	0.5
70106500	TEMPORARY BRIDGE TRAFFIC SIGNALS	EACH	2	1	1
70106700	TEMPORARY RUMBLE STRIP	EACH	6	6	
70107025	CHANGEABLE MESSAGE SIGN	CAL DA	28	14	14
70300100	SHORT-TERM PAVEMENT MARKING	FOOT	176	87	89

\*= SPECIALTY ITEM

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PLOT DATE = 12/14/2022	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**SUMMARY OF QUANTITIES  
S.N. 036-0044 AND S.N. 036-0045**

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
522	6B-2-BR:(6B-3-BR)BJR]BRR,BDR	HENDERSON	39	5
			CONTRACT NO. 68G41	
		ILLINOIS	FED. AID PROJECT	

CONST. CODE	CONST. CODE
80% FED 20% STATE	80% FED 20% STATE
BRIDGE	BRIDGE
0013	0013

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	SN 036-0044	SN 036-0045
70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SQ FT	58	29	29
70400100	TEMPORARY CONCRETE BARRIER	FOOT	1050	512.5	537.5
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	1050	512.5	537.5
70600251	IMPACT ATTENUATORS, TEMPORARY (NON- REDIRECTIVE, NARROW), TEST LEVEL 3	EACH	4	2	2
70600352	IMPACT ATTENUATORS, RELOCATE (NON- REDIRECTIVE, NARROW), TEST LEVEL 3	EACH	4	2	2
* 72501000	TERMINAL MARKER - DIRECT APPLIED	EACH	8	4	4
* 78009004	MODIFIED URETHANE PAVEMENT MARKING - LINE 4"	FOOT	5057	2652	2405
78300202	PAVEMENT MARKING REMOVAL - WATER BLASTING	SQFT	1122	610	512
X0326444	SURFACE FILLER (SPECIAL)	GALLON	1.4	0.6	0.8
X0327285	DOWNSPOUT ADJUSTMENT	EACH	2		2
X6350204	LINEAR DELINEATOR PANELS, 4 INCH	EACH	34	17	17
X0556100	PARTIAL DEPTH PATCHING (SPECIAL)	SQ YD	104	61	43
X4421000	PARTIAL DEPTH PATCHING	TON	24	14	10

\*= SPECIALTY ITEM

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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**SUMMARY OF QUANTITIES  
S.N. 036-0044 AND S.N. 036-0045**

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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			CONTRACT NO. 68G41	
ILLINOIS FED. AID PROJECT				

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CONST. CODE	CONST. CODE
80% FED 20% STATE	80% FED 20% STATE
BRIDGE	BRIDGE
0013	0013

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	SN 036-0044	SN 036-0045
X5030550	PROTECTIVE COAT (SPECIAL)	SQ YD	426	194	232
Z0001002	GUARDRAIL AGGREGATE EROSION CONTROL	TON	166	73	93
Z0012130	BRIDGE DECK SCARIFICATION 3/4"	SQ YD	1323	632	691
Z0012162	BRIDGE DECK MICROSILICA CONCRETE OVERLAY 2 1/4"	SQ YD	1321	632	689
Z0013798	CONSTRUCTION LAYOUT	L SUM	1	0.5	0.5

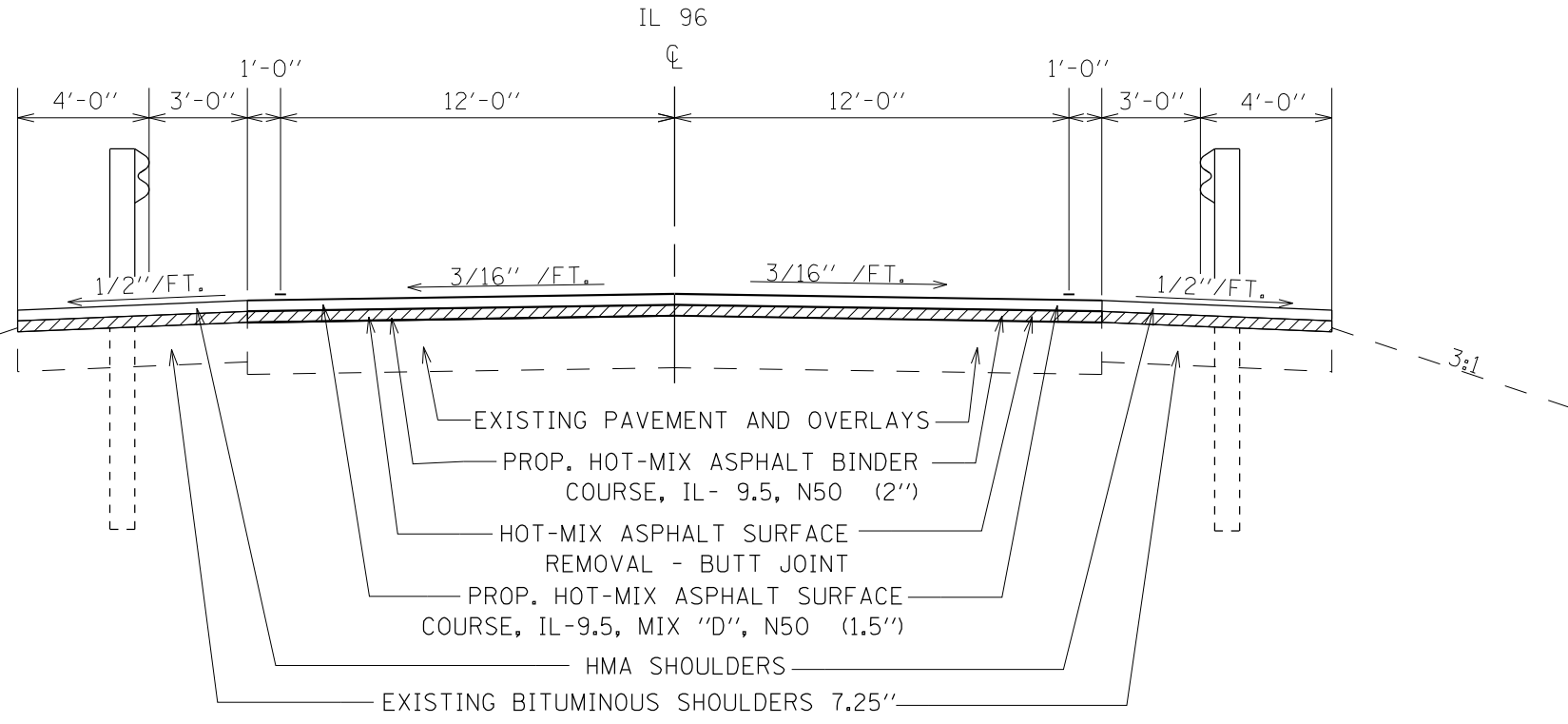
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	DATE -	REVISIED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

SUMMERY OF QUANTITIES			
S.N. 036-0044 AND S.N. 036-0045			
SCALE:	SHEET 4	OF 4	SHEETS
	STA.		TO STA.

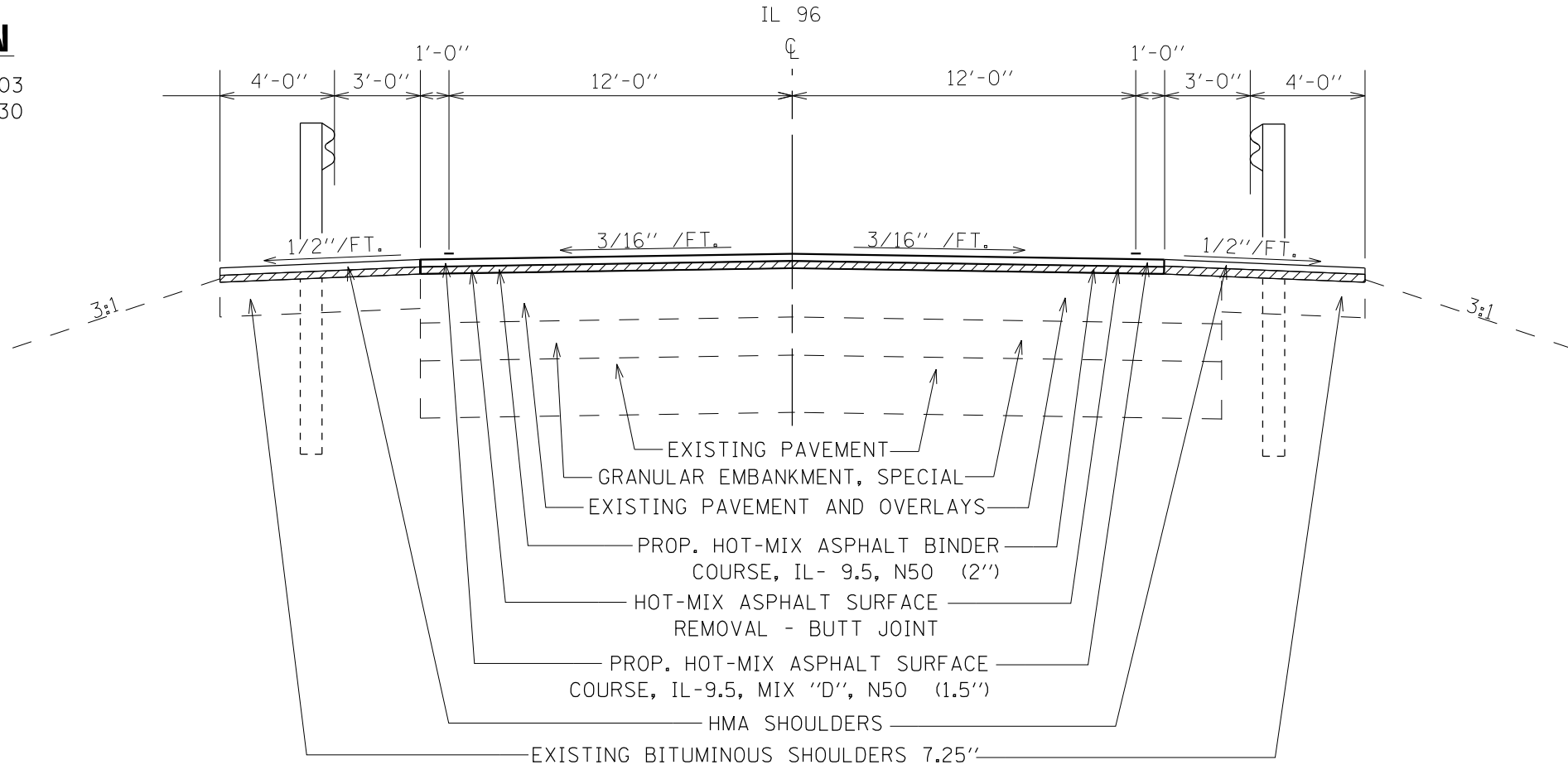
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CONTRACT NO. 68G41				
ILLINOIS FED. AID PROJECT				

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**TYPICAL SECTION**

STA. 73+53 TO STA. 74+03  
STA. 75+80 TO STA. 76+30



**TYPICAL SECTION**

STA. 246+58 TO STA. 247+08  
STA. 249+11 TO STA. 249+41

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DRAWN - _____	REVISIONS - _____	REVISIONS - _____
PLOT SCALE = 100,0000' / in.	CHECKED - _____	REVISIONS - _____
PLOT DATE = 12/14/2022	DATE - _____	REVISIONS - _____

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>TYPICAL SECTION</b>	
SCALE: _____	SHEET 1 OF 1 SHEETS STA. _____ TO STA. _____

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 68G41			ILLINOIS FED. AID PROJECT	



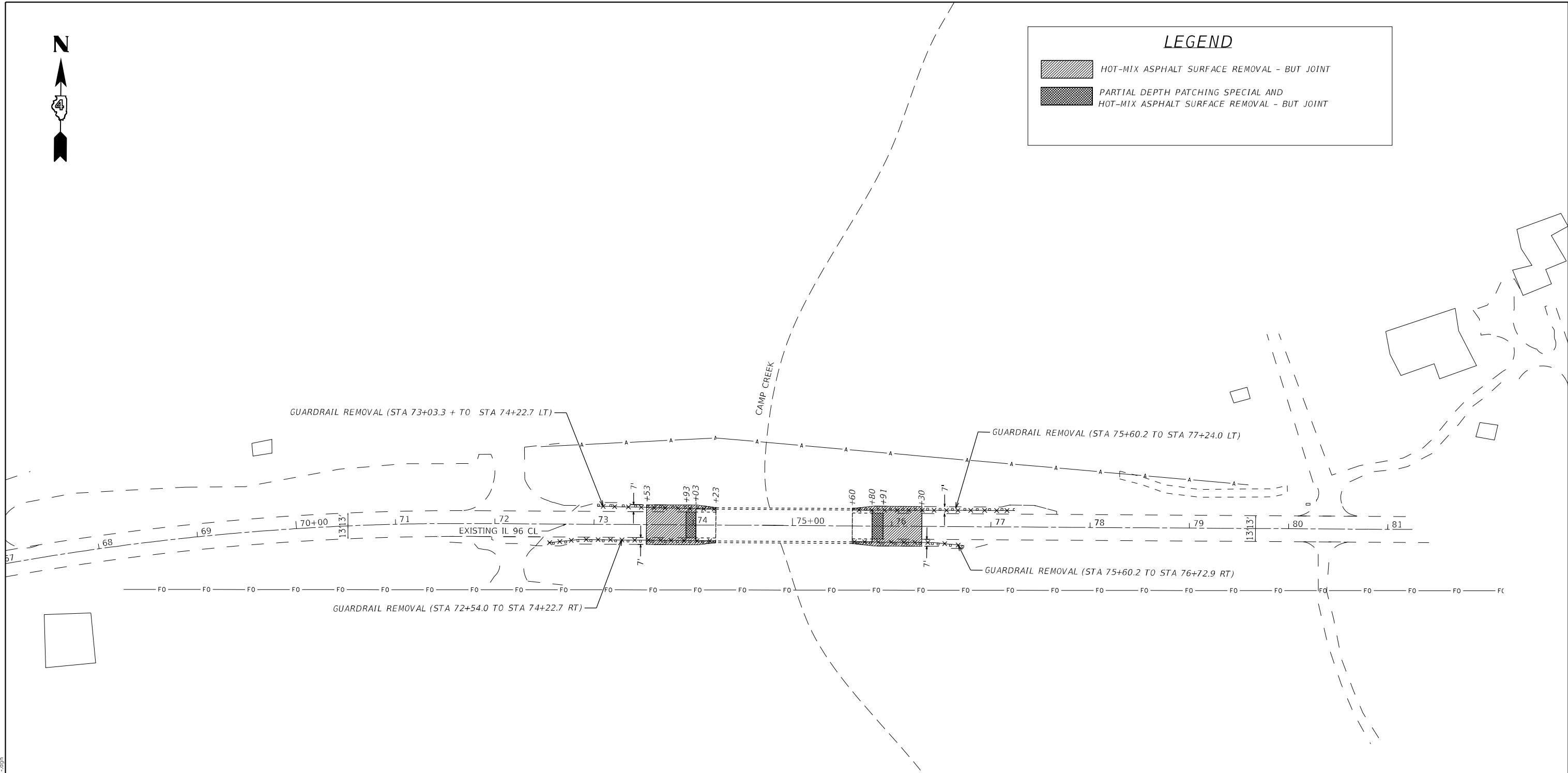




**LEGEND**

HOT-MIX ASPHALT SURFACE REMOVAL - BUT JOINT

PARTIAL DEPTH PATCHING SPECIAL AND HOT-MIX ASPHALT SURFACE REMOVAL - BUT JOINT



**NOTE:**SEE PRE-STAGE SHEET FOR ADDITIONAL REMOVAL ON SHOULDERS.

THE EXISTING GUARDRAIL IS LOCATED IN THE HMA SHOULDERS. ANY VOIDS FROM THE GUARDRAIL REMOVAL SHALL BE FILLED AND TAMPED. THE TOP 2" OF THE VOID SHALL BE CAPPED WITH HMA. THIS WORK SHALL BE CONSIDERED INCLUDED IN THE COST OF GUARDRAIL REMOVAL.

ANY ADDITIONAL WORK REQUIRED TO REMOVE THE GUARDRAIL POSTS FROM THE HMA SHOULDERS SHALL BE CONSIDERED INCLUDED IN THE COST OF GUARDRAIL REMOVAL.

BUTT JOINTS SHALL BE 3 1/2" DEEP TO ALLOW FOR 1 1/2" SURFACE COURSE AND 2" BINDER COURSE.



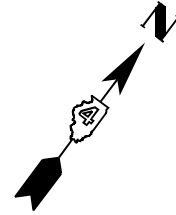
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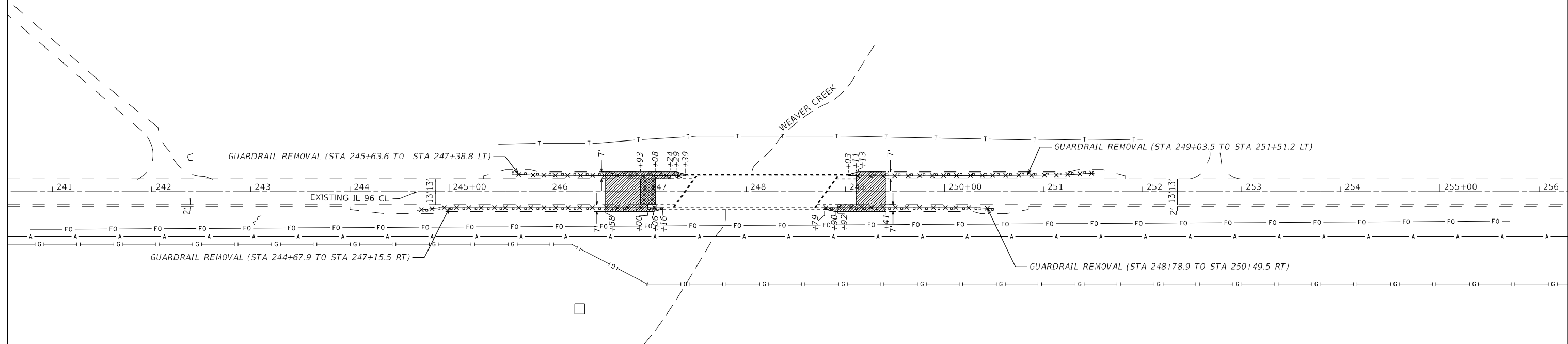
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>EXISTING AND REMOVAL</b>	
<b>S.N. 036-0044</b>	
SCALE:	SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
522	6B-2-BR:(6B-3-BR)BJR]BRR,BDR	HENDERSON	39	10
CONTRACT NO. 68G41				
		ILLINOIS FED. AID PROJECT		



LEGEND	
	HOT-MIX ASPHALT SURFACE REMOVAL - BUT JOINT
	PARTIAL DEPTH PATCHING SPECIAL AND HOT-MIX ASPHALT SURFACE REMOVAL - BUT JOINT



**NOTE:** SEE PRE-STAGE SHEET FOR ADDITIONAL REMOVAL ON SHOULDERS.

THE EXISTING GUARDRAIL IS LOCATED IN THE HMA SHOULDERS. ANY VOIDS FROM THE GUARDRAIL REMOVAL SHALL BE FILLED AND TAMPED. THE TOP 2" OF THE VOID SHALL BE CAPPED WITH HMA. THIS WORK SHALL BE CONSIDERED INCLUDED IN THE COST OF GUARDRAIL REMOVAL.

ANY ADDITIONAL WORK REQUIRED TO REMOVE THE GUARDRAIL POSTS FROM THE HMA SHOULDERS SHALL BE CONSIDERED INCLUDED IN THE COST OF GUARDRAIL REMOVAL.

BUTT JOINTS SHALL BE 3 1/2" DEEP TO ALLOW FOR 1 1/2" SURFACE COURSE AND 2" BINDER COURSE.



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	DATE -	REVISED -

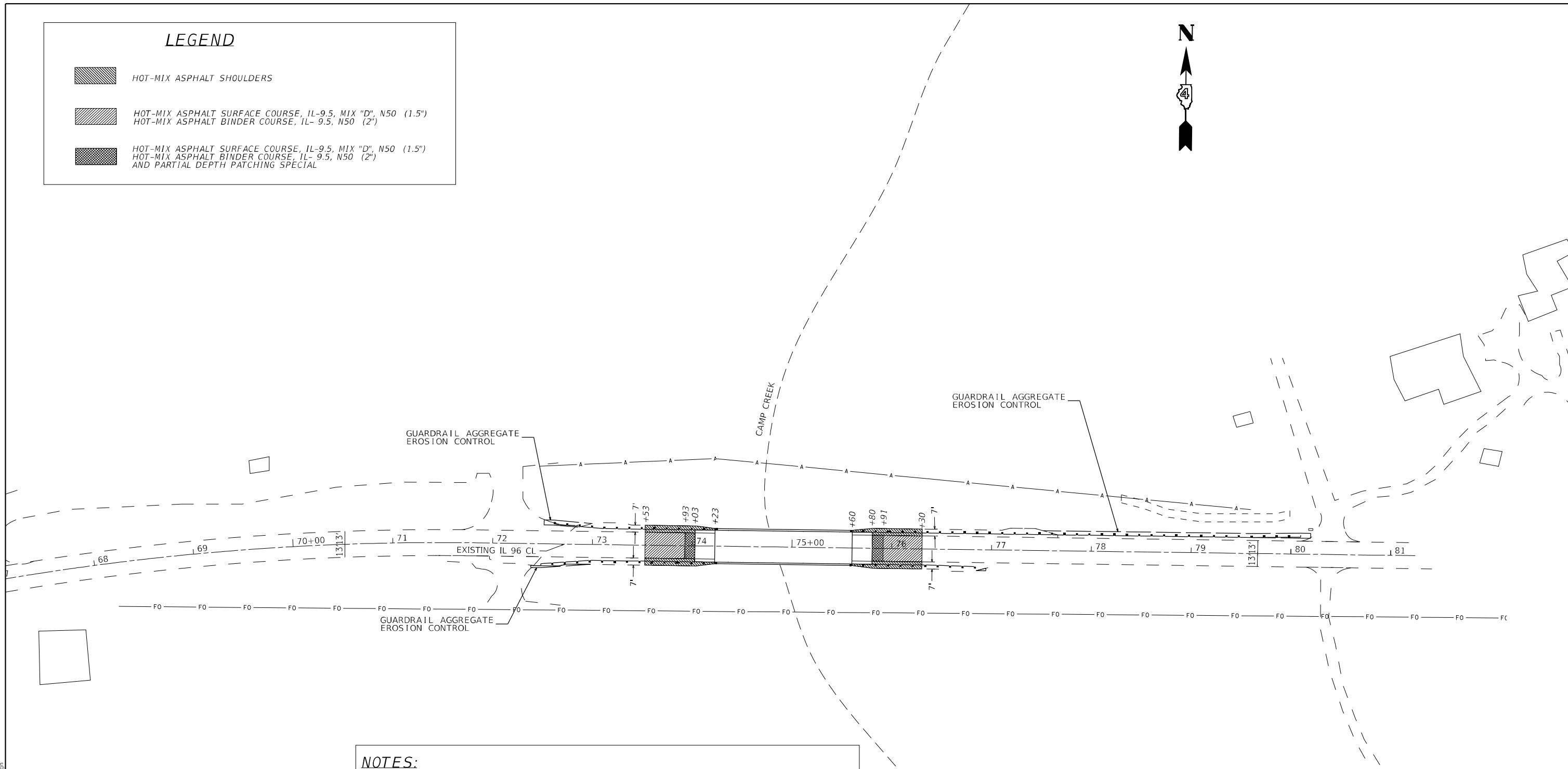
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>EXISTING AND REMOVAL</b>			
<b>S.N. 036-0045</b>			
SCALE:	SHEET 1	OF 1	SHEETS
STA.		TO STA.	

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
522	6B-2-BR:(6B-3-BR)BJR]BRR,BDR	HENDERSON	39	11
CONTRACT NO. 68G41			ILLINOIS FED. AID PROJECT	

**LEGEND**

-  HOT-MIX ASPHALT SHOULDERS
-  HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N50 (1.5")  
HOT-MIX ASPHALT BINDER COURSE, IL- 9.5, N50 (2")
-  HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N50 (1.5")  
HOT-MIX ASPHALT BINDER COURSE, IL- 9.5, N50 (2")  
AND PARTIAL DEPTH PATCHING SPECIAL



**NOTES:**

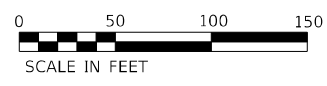
PLACE 1 TON GUARDRAIL AGGREGATE EROSION CONTROL AT EACH OF THE FOLLOWING BRIDGE CORNERS: NW, NE AND SW.

CORE HMA SHOULDERS FOR PROPOSED GUARDRAIL AND BACKFILL AND CAP IN ACCORDANCE WITH STANDARD 630001 AND ARTICLE 630.06 OF THE STANDARD SPECIFICATIONS. THIS WORK SHALL BE CONSIDERED INCLUDED IN THE COST OF THE APPLICABLE GUARDRAIL PAY ITEMS PROVIDED IN THE PLANS.

SEE STRUCTURE DETAILS FOR PROPOSED WORK ON THE STRUCTURE AND APPROACH PAVEMENTS.

SEE GUARDRAIL DETAILS FOR MORE INFORMATION ON GUARDRAIL.

THE ENGINEER SHALL DETERMINE ANY PROFILE ADJUSTMENTS REQUIRED ON THE APPROACH PAVEMENTS AND APPROACH ROADWAYS TO ADDRESS SETTLED APPROACH PAVEMENTS. ESTIMATED BUTT JOINTS AND HMA OVERLAY LIMITS ARE PROVIDED IN THESE PLANS.



MODEL SHEET: 50 12/15/2022  
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	DRAWN -	REVISED -
PLOT SCALE = 100,0000' / in.	CHECKED -	REVISED -
PLOT DATE = 12/15/2022	DATE -	REVISED -




**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

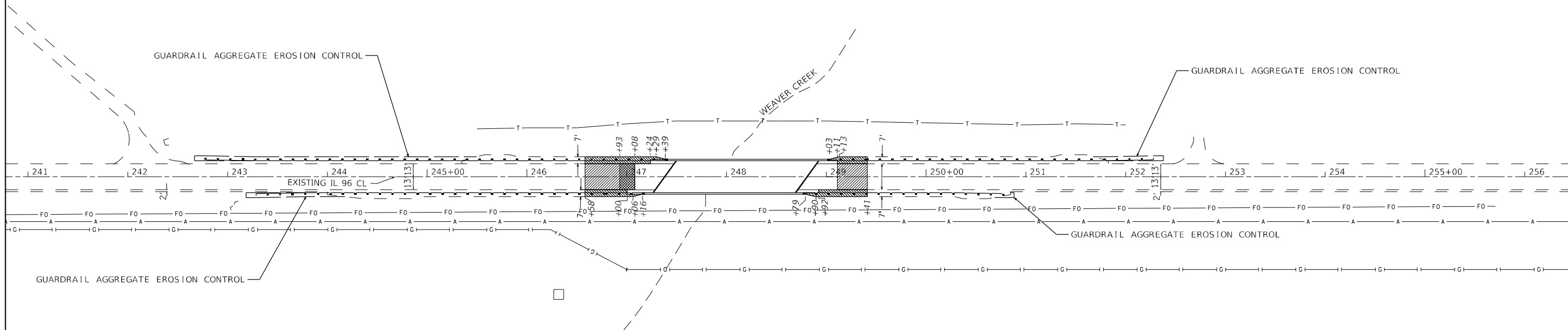
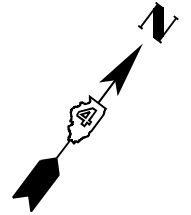
**PROPOSED PLAN  
S.N. 036-0044**

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
522	6B-2-BR;(6B-3-BR)BJR]BRR,BDR	HENDERSON	39	12
CONTRACT NO. 68G41				
ILLINOIS FED. AID PROJECT				

**LEGEND**

-  HOT-MIX ASPHALT SHOULDERS
-  HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N50 (1.5")  
HOT-MIX ASPHALT BINDER COURSE, IL- 9.5, N50 (2")
-  HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N50 (1.5")  
HOT-MIX ASPHALT BINDER COURSE, IL- 9.5, N50 (2")  
AND PARTIAL DEPTH PATCHING SPECIAL



**NOTES:**

CORE HMA SHOULDERS FOR PROPOSED GUARDRAIL AND BACKFILL AND CAP IN ACCORDANCE WITH STANDARD 630001 AND ARTICLE 630.06 OF THE STANDARD SPECIFICATIONS. THIS WORK SHALL BE CONSIDERED INCLUDED IN THE COST OF THE APPLICABLE GUARDRAIL PAY ITEMS PROVIDED IN THE PLANS.

SEE STRUCTURE DETAILS FOR PROPOSED WORK ON THE STRUCTURE AND APPROACH PAVEMENTS.

SEE GUARDRAIL DETAILS FOR MORE INFORMATION ON GUARDRAIL.

THE ENGINEER SHALL DETERMINE ANY PROFILE ADJUSTMENTS REQUIRED ON THE APPROACH PAVEMENTS AND APPROACH ROADWAYS TO ADDRESS SETTLED APPROACH PAVEMENTS. ESTIMATED BUTT JOINTS AND HMA OVERLAY LIMITS ARE PROVIDED IN THESE PLANS.



MODEL SHEET: 50 1314  
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PLOT DATE = 12/15/2022	CHECKED -	REVISED -
	DATE -	REVISED -


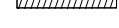

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

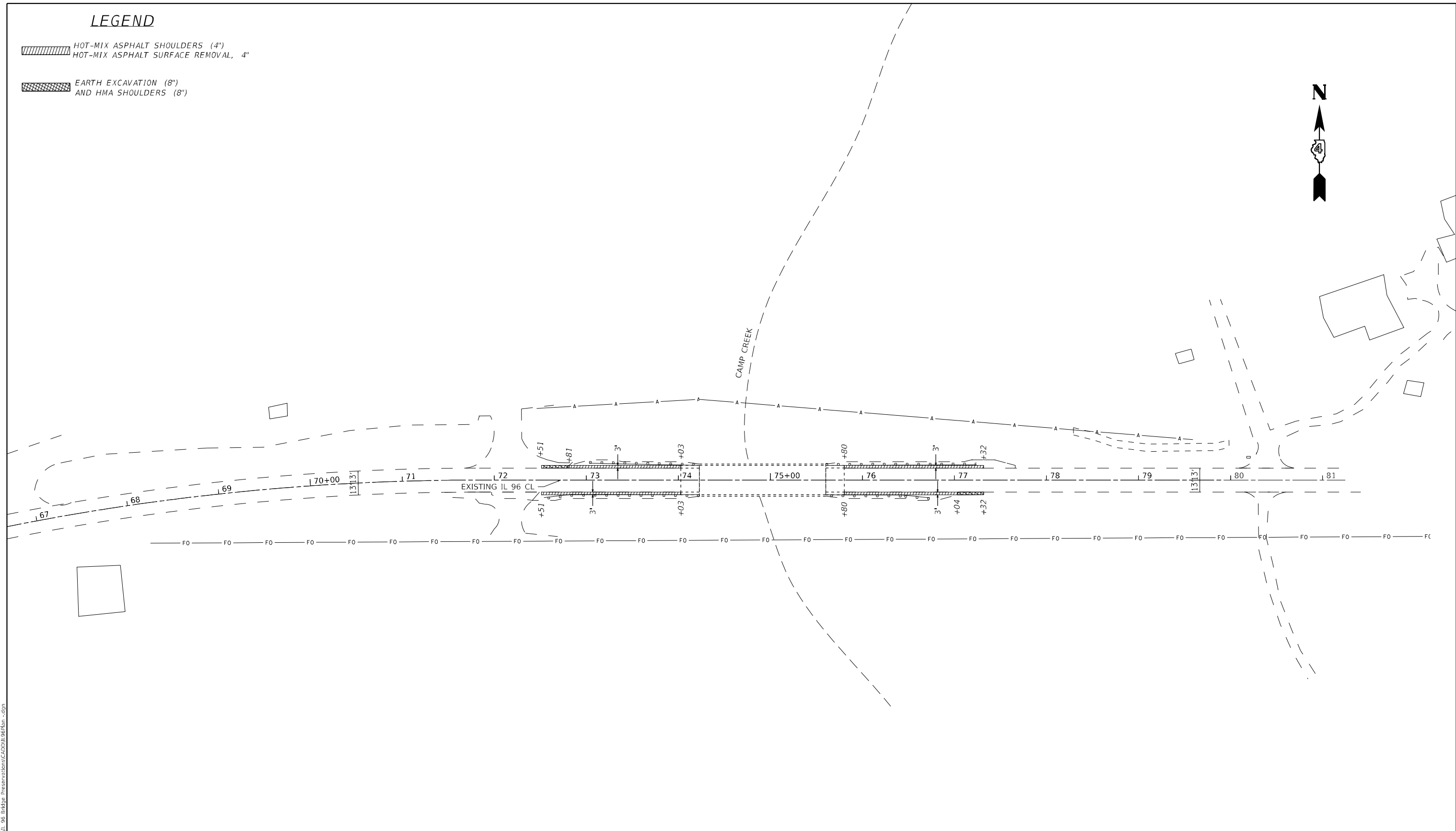
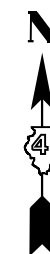
**PROPOSED PLAN  
S.N. 036-0045**

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
522	6B-2-BR:(6B-3-BR)BJR BRR,BDR	HENDERSON	39	13
			CONTRACT NO. 68G41C	
			ILLINOIS FED. AID PROJECT	

**LEGEND**

-  HOT-MIX ASPHALT SHOULDERS (4")
-  HOT-MIX ASPHALT SURFACE REMOVAL, 4"
-  EARTH EXCAVATION (8")  
AND HMA SHOULDERS (8")



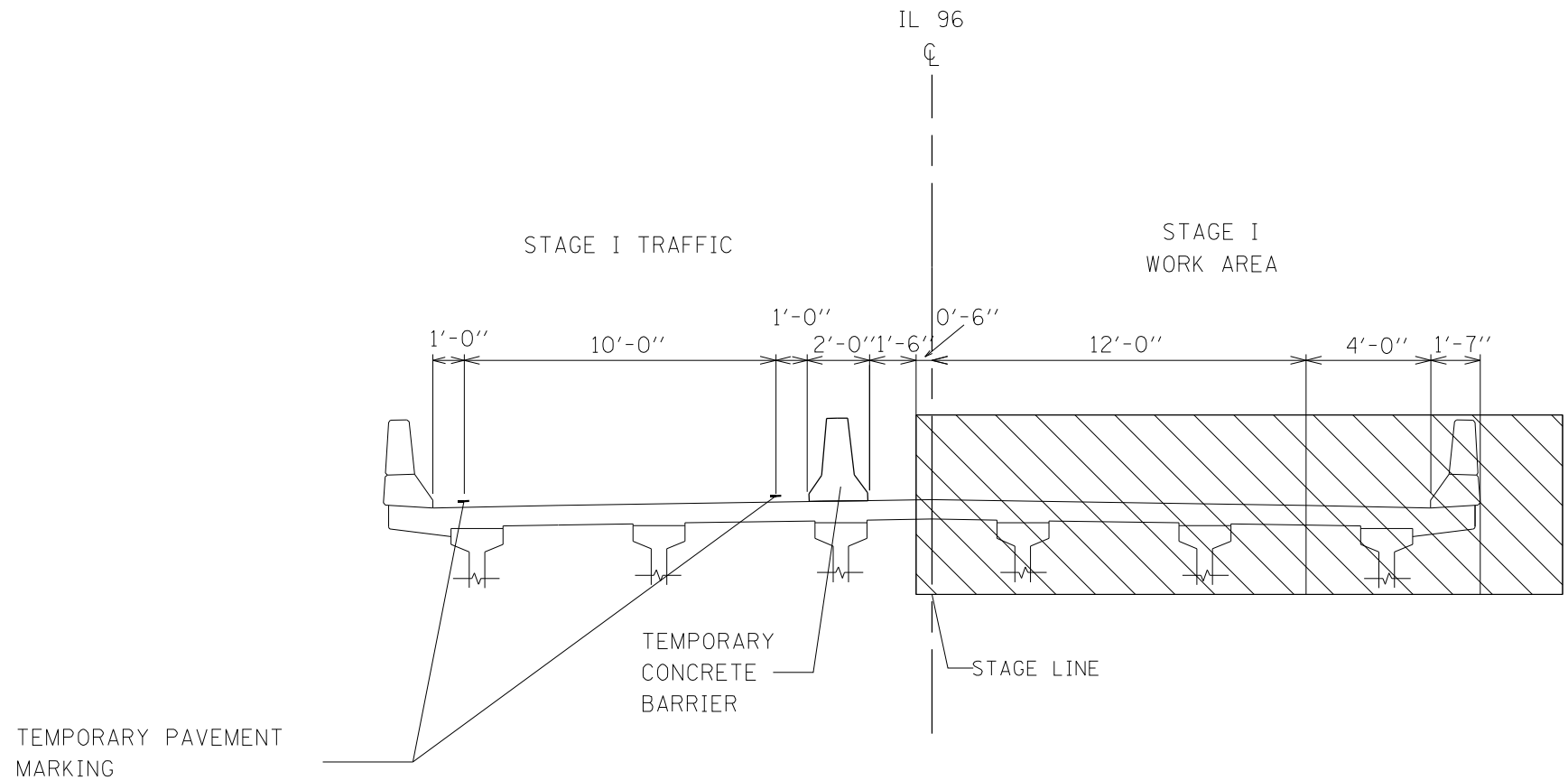
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	DRAWN -	REVISED -
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PLOT DATE = 12/15/2022	DATE -	REVISED -

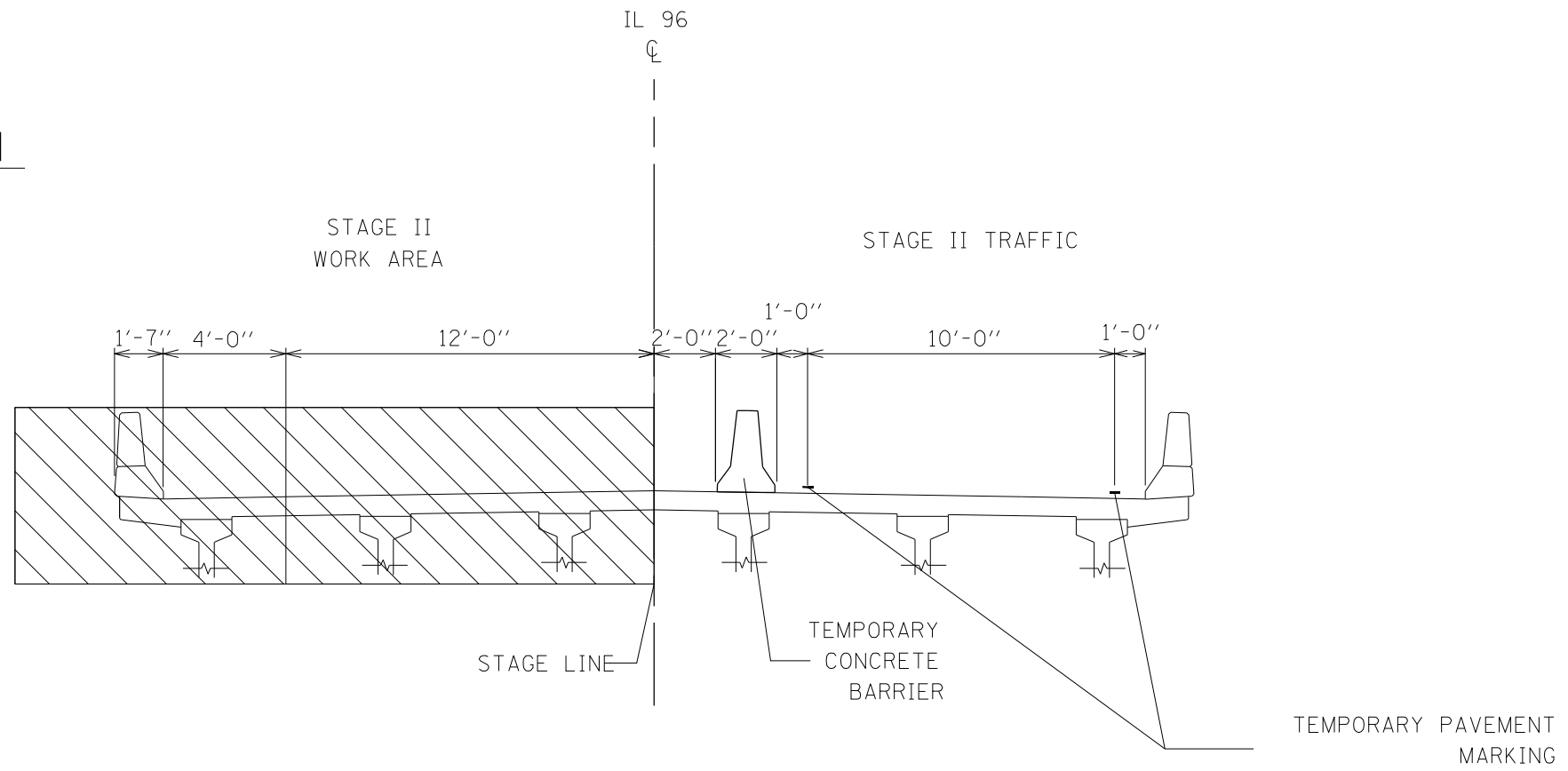
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>PRE-STAGE S.N. 036-0044</b>			
SCALE:	SHEET 1	OF 3 SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
522	6B-2-BR:(6B-3-BR)BJR]BRR,BDR	HENDERSON	39	14
CONTRACT NO. 68G41				
ILLINOIS FED. AID PROJECT				



**TYPICAL SECTION  
STAGE I**  
(Looking East)



**TYPICAL SECTION  
STAGE II**  
(Looking East)



WORK AREA

MODEL SHEET  
FILE NAME: S:\GEN\WORK\03\STAGE\US\Sus0303\11\_06\_Bridge\_Presentation\CADD\1106\_Typical.dgn

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	DRAWN - _____	REVISED - _____
PLOT SCALE = 100,0000' / in.	CHECKED - _____	REVISED - _____
PLOT DATE = 12/14/2022	DATE - _____	REVISED - _____

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>STAGING TYPICAL SECTION S.N 036-0044</b>			
SCALE: _____	SHEET 2	OF 3 SHEETS	STA. _____ TO STA. _____

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
522	(6B-2-BR;(6B-3-BR)B/R)BRR.BDR	HENDERSON	39	15
CONTRACT NO. 68G41				
ILLINOIS FED. AID PROJECT				

STAGE I

STAGE II



CAMP CREEK

CAMP CREEK

**NOTES:**  
 TRAFFIC CONTROL SHALL BE SET UP IN ACCORDANCE WITH HIGHWAY STANDARD 701321 AND THESE DETAILS.  
 TEMPORARY CONCRETE BARRIER OFFSETS ARE PROVIDED TO THE CENTER LINE OF THE BARRIER.  
 APPLICABLE PROPOSED GUARDRAIL SHALL BE INSTALLED IN EACH STAGE (SEE GUARDRAIL DETAILS).  
 APPLICABLE HOT-MIX ASPHALT WORK SHALL BE COMPLETED IN EACH STAGE TO PREVENT DROP-OFF AND GUARDRAIL HEIGHT ISSUES.  
 PAVEMENT MARKING TAPE TYPE IV SHALL BE USED FOR TEMPORARY PAVEMENT MARKINGS.  
 TYPE III BARRICADES AT EACH ENTRANCE SHALL BE CONSIDERED INCLUDED IN THE COST OF HIGHWAY STANDARD 701321.

**SYMBOLS**

- WORK AREA
- TRAFFIC SIGNAL
- STOP BAR
- TYPE III BARRICADES



MODEL SHEET 50 454H  
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	DRAWN -	REVISED -
PLOT SCALE = 100,0000' / in.	CHECKED -	REVISED -
PLOT DATE = 12/15/2022	DATE -	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

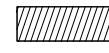
**STAGE I AND STAGE II  
 S.N. 036-0044**

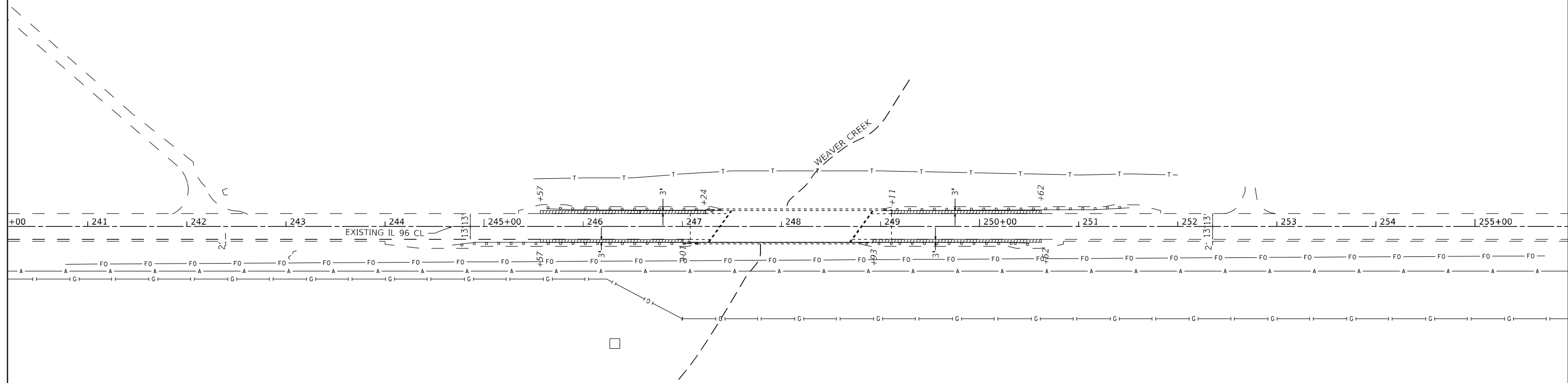
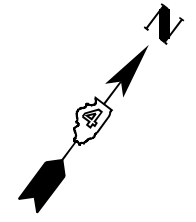
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
522	16B-2-BR;(6B-3-BR)B R BRR,BDR	HENDERSON	39	16
CONTRACT NO. 68G41				
ILLINOIS FED. AID PROJECT				

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



**LEGEND**

 HMA SURFACE REMOVAL, (4")  
AND HMA SHOULDERS (4")



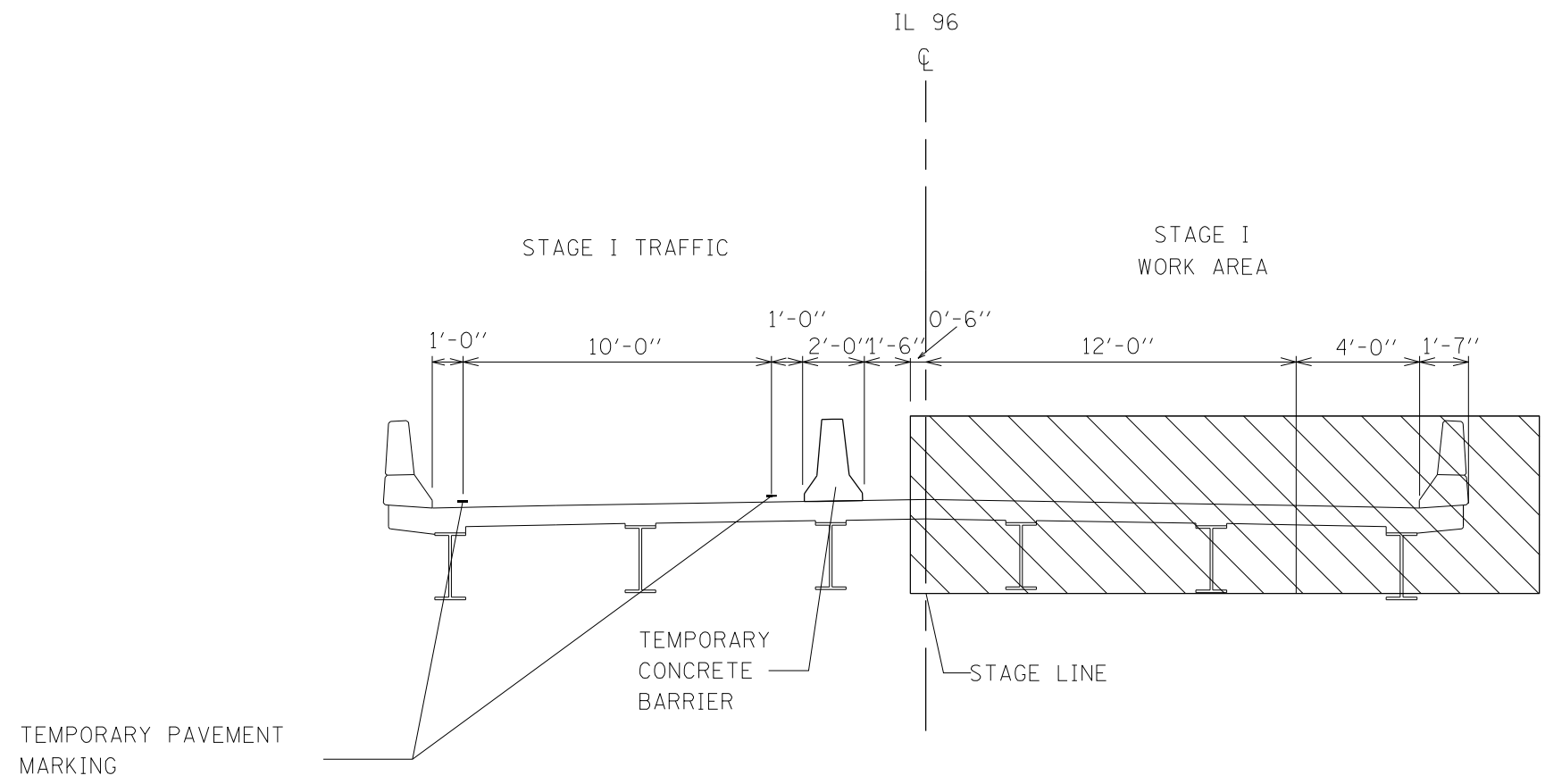
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PLOT DATE = 12/15/2022	CHECKED -	REVISED -
	DATE -	REVISED -

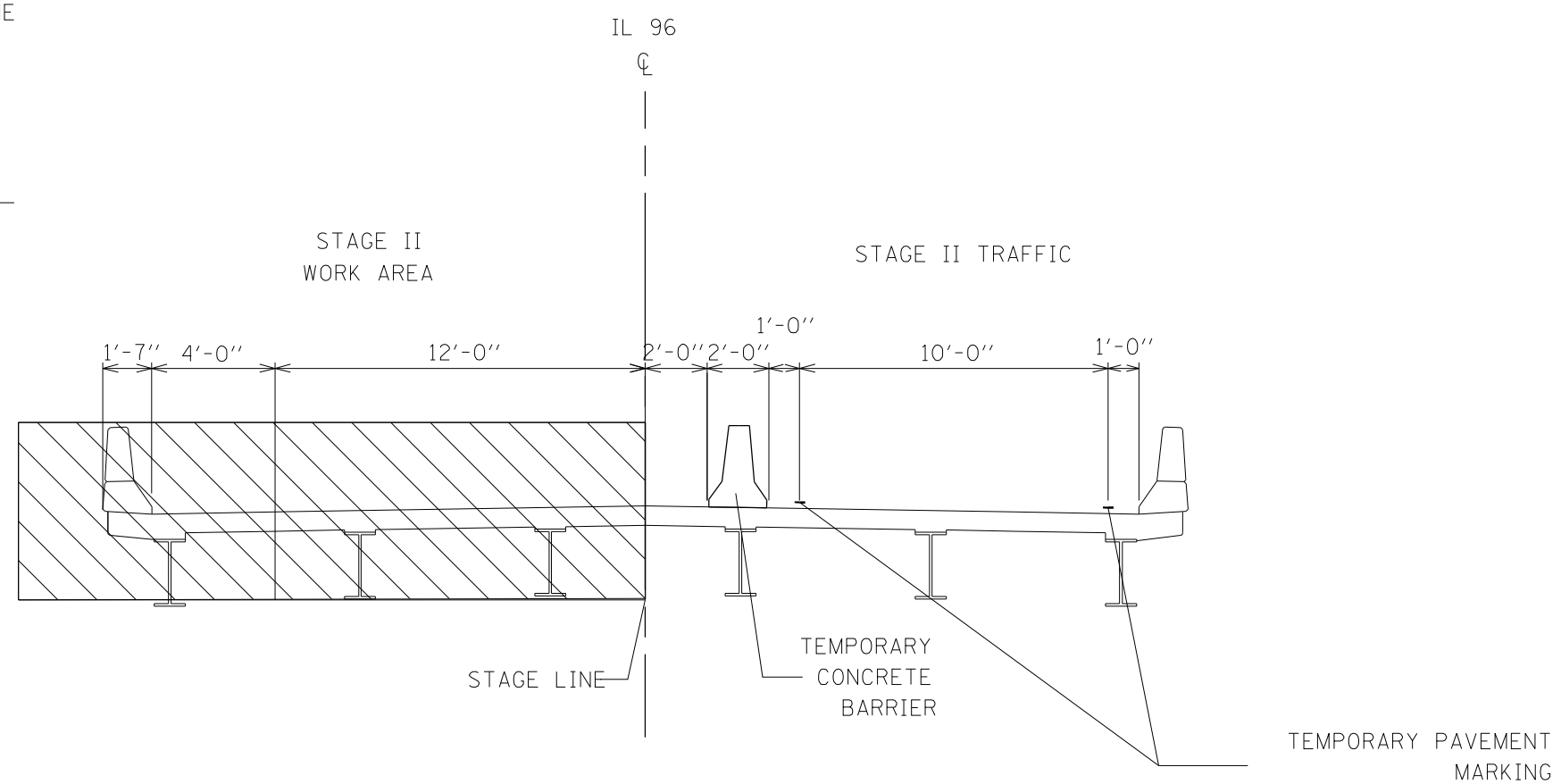
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>PRE-STAGE S.N. 036-0045</b>			
SCALE:	SHEET 1	OF 3	SHEETS
	STA.		TO STA.


F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
522	6B-2-BR:(6B-3-BR)BJR]BRR,BDR	HENDERSON	39	17
CONTRACT NO. 68G41				
ILLINOIS FED. AID PROJECT				



**TYPICAL SECTION**  
**STAGE I**  
 (Looking East)



**TYPICAL SECTION**  
**STAGE II**  
 (Looking East)

 WORK AREA

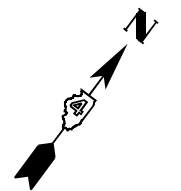
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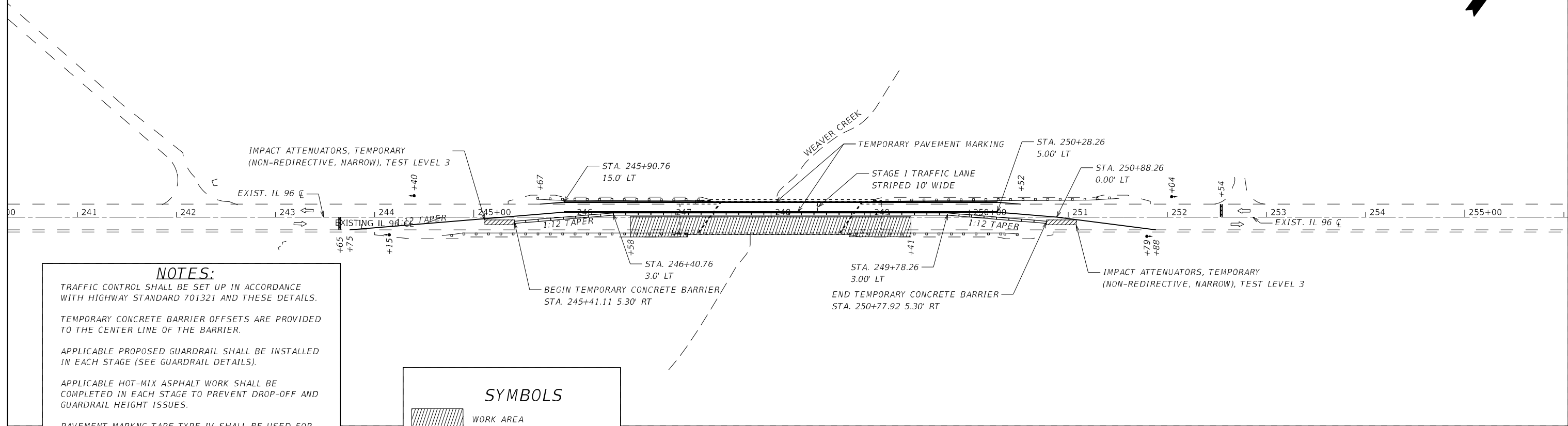
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**STAGING TYPICAL SECTION**  
**S.N. 036-0045**  
 SCALE: \_\_\_\_\_ SHEET 2 OF 3 SHEETS STA. \_\_\_\_\_ TO STA. \_\_\_\_\_

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
522	6B-2-BR:(6B-3-BR)BJR]BRR.BDR	HENDERSON	39	18
CONTRACT NO. 68G41				
ILLINOIS FED. AID PROJECT				



STAGE I

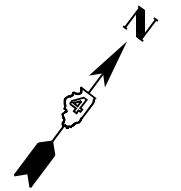
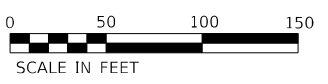
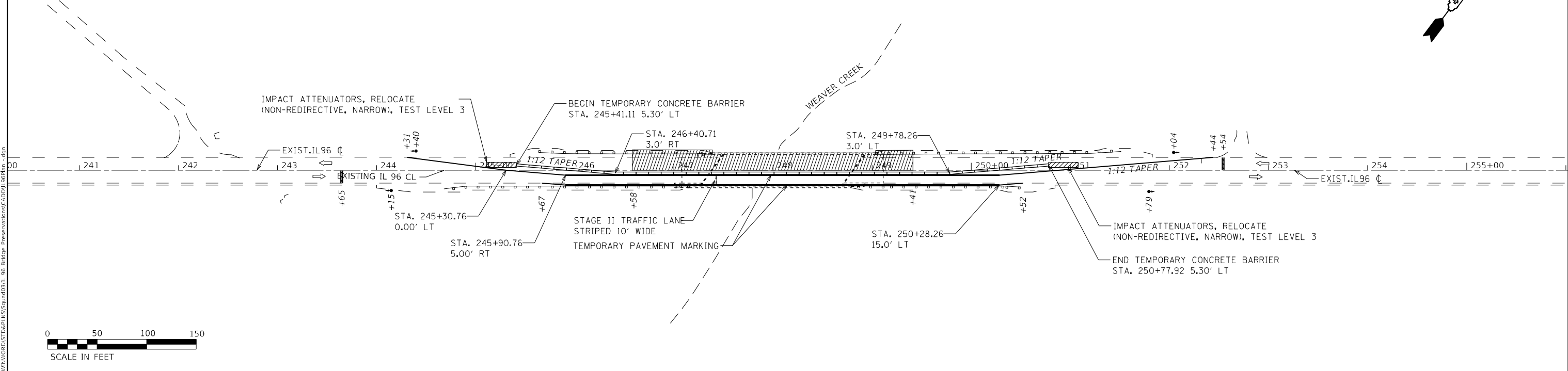


**NOTES:**  
 TRAFFIC CONTROL SHALL BE SET UP IN ACCORDANCE WITH HIGHWAY STANDARD 701321 AND THESE DETAILS.  
 TEMPORARY CONCRETE BARRIER OFFSETS ARE PROVIDED TO THE CENTER LINE OF THE BARRIER.  
 APPLICABLE PROPOSED GUARDRAIL SHALL BE INSTALLED IN EACH STAGE (SEE GUARDRAIL DETAILS).  
 APPLICABLE HOT-MIX ASPHALT WORK SHALL BE COMPLETED IN EACH STAGE TO PREVENT DROP-OFF AND GUARDRAIL HEIGHT ISSUES.  
 PAVEMENT MARKNG TAPE TYPE IV SHALL BE USED FOR TEMPORARY PAVEMENT MARKINGS.  
 TYPE III BARRICADES AT EACH ENTRANCE SHALL BE CONSIDERED INCLUDED IN THE COST OF HIGHWAY STANDARD 701321.

**SYMBOLS**

- WORK AREA
- TRAFFIC SIGNAL
- STOP BAR
- TYPE III BARRICADES

STAGE II



MODEL: Sheet\_50.dwg  
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DRAWN -	REVISOR -	
PLOT SCALE = 100,0000' / in.	CHECKED -	REVISOR -
PLOT DATE = 12/15/2022	DATE -	REVISOR -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**STAGE I AND STAGE II  
 S.N. 036-0045**

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
522	16B-2-BR:(6B-3-BR)BJR BRR,BDR	HENDERSON	39	19
CONTRACT NO. 68G41				
ILLINOIS FED. AID PROJECT				

Existing Structure: SN 036-0044, originally built in 1992 as FA 522, Section (6B-2)BR. The superstructure consists of 2 spans 54" PPC-I Beams with a cast in place 7 1/2" concrete deck, the substructure consists of integral pile bent abutments and a pile bent pier.

Stage construction will be utilized

### SCOPE OF WORK

1. Scarify deck & approach slab 3/4" and add 2 1/4" Microsilica Concrete Overlay
2. Parapet Repairs
3. Apply protective coat on parapets

### GENERAL NOTES

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

Protective Coat shall be applied to the concrete wearing surface.



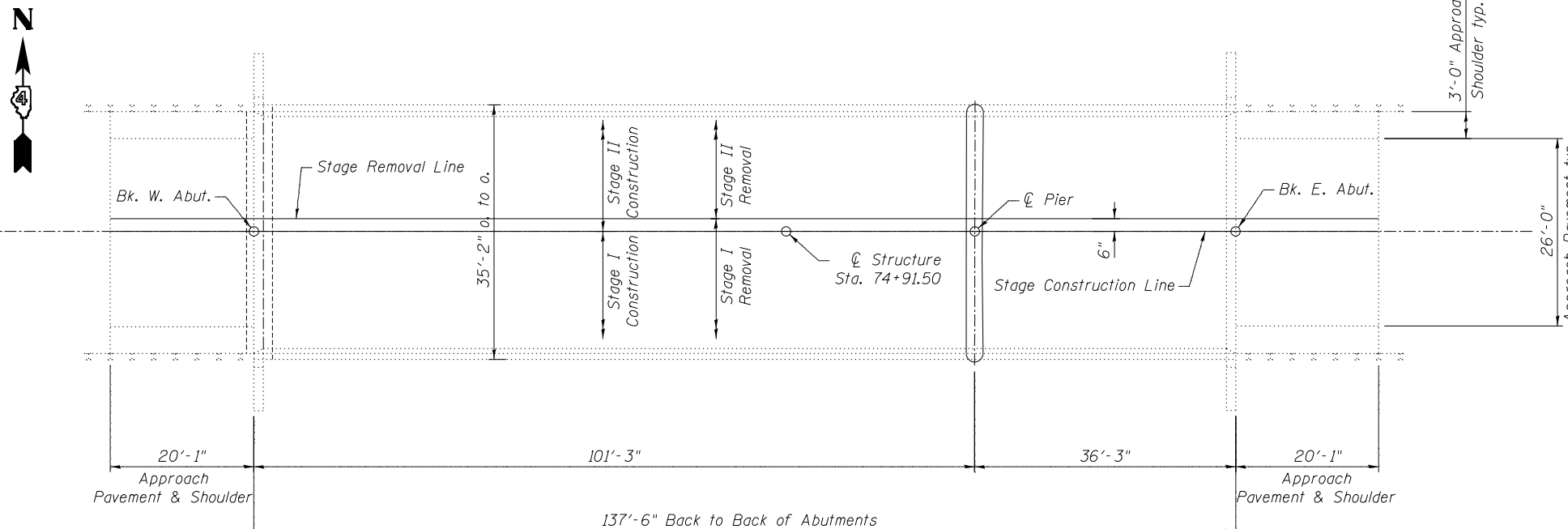
**ELEVATION**  
(LOOKING NORTH)

### INDEX OF SHEETS

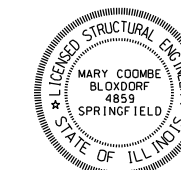
1. General Plan and Elevation
2. Stage Construction Details
3. Parapet Repair Details

### TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Concrete Removal	Cu. Yd.	0.9		0.9
Concrete Superstructure	Cu. Yd.	0.9		0.9
Protective Coat	Sq. Yd.	632		632
Surface Filler, Special	Gallon	0.6		0.6
Bridge Deck Grooving	Sq. Yd.	592		592
Protective Coat (Special)	Sq. Yd.	194		194
Bridge Deck Scarification <sup>3/4"</sup>	Sq. Yd.	632		632
Bridge Deck Microsilica Concrete Overlay <sup>2 1/4"</sup>	Sq. Yd.	632		632



**PLAN VIEW**



*Mary Coombe Blodorf*

ILLINOIS STRUCTURAL NO. 4859  
EXPIRES 11/30/24  
DATE: 12/13/22

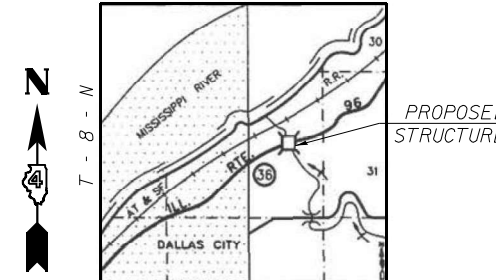
### DESIGN STRESSES

Proposed  
 $f'_c = 4,000$  psi  
 $f_y = 60,000$  psi (reinforcement)

From Existing Plans  
 $f'_c = 3,500$  psi  
 $f_y = 60,000$  psi (Reinforcement)

PRECAST UNITS  
 $f'_c = 6,000$  psi, span 1 & 5,000 psi, span 2  
 $f'_{ci} = 5,000$  psi, span 1 & 4,000 psi, span 2  
 $f'_s = 270,000$  psi ( $1/2$ " strands)  
 $f'_{si} = 189,000$  psi ( $1/2$ " strands)

R - 7 - W OF 4TH P.M.



**LOCATION SKETCH**

**GENERAL PLAN AND ELEVATION**  
**IL 96 OVER CAMP CREEK**  
**SECTION [(Z-4B-15D)BR]BDR,SCR**  
**HENDERSON COUNTY**  
**STATION 71+91.5**  
**STRUCTURE NUMBER 036-0044**

MODEL: D:\p1\15-1016\036-0044\036-0044 - GPR.dgn  
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PLOT DATE = 08/02/2022	CHECKED MCB	REVISED -
	DATE -	REVISED -

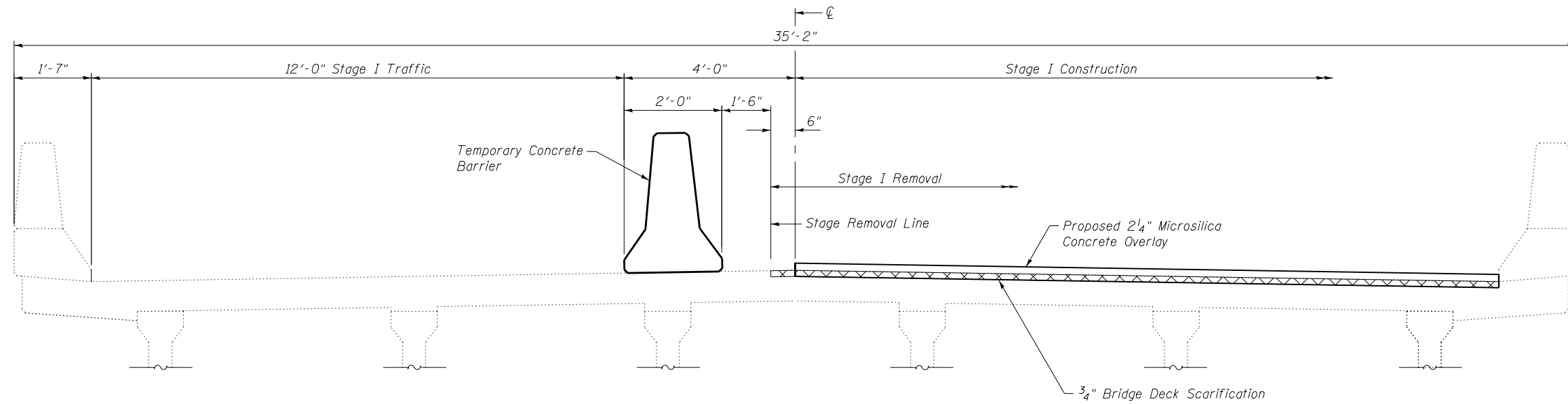
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**GENERAL PLAN AND ELEVATION**  
**SN 036-0044**

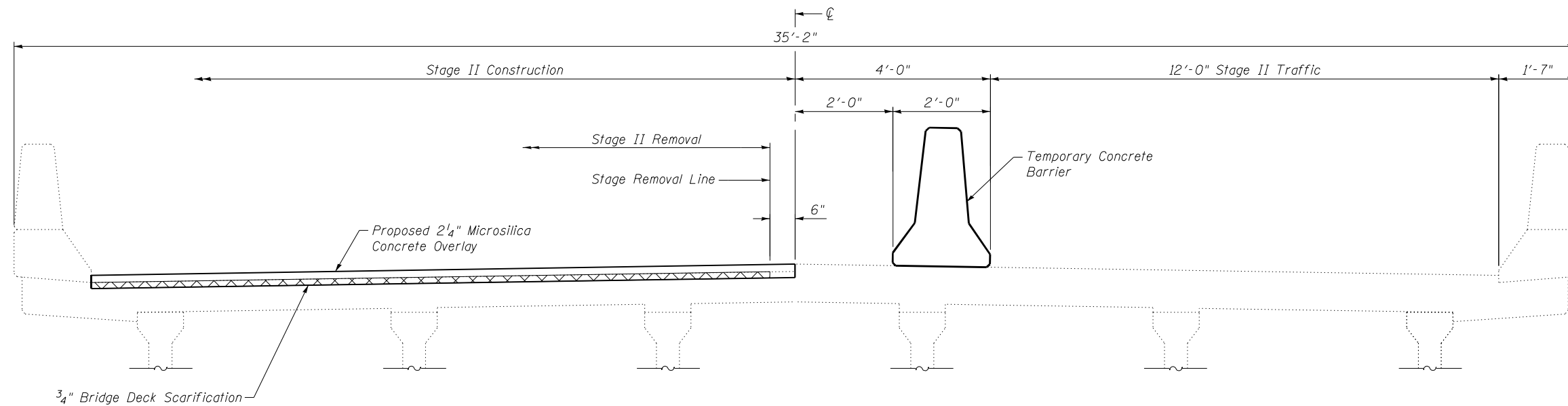
SCALE: N/A SHEET 1 OF 5 SHEETS STA. 17+91.50 TO STA. -

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
522	[(Z-4B-15D)BR]BDR,SCR	HENDERSON	39	20
			CONTRACT NO. 68G41	
ILLINOIS FED. AID PROJECT				

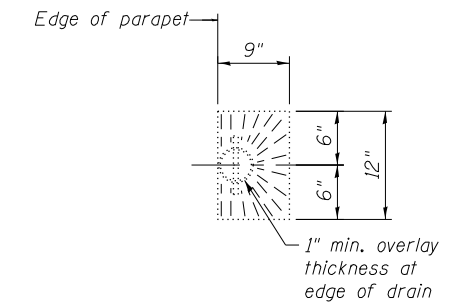
FEHR GRAHAM PROJECT NUMBER: 15-1016N



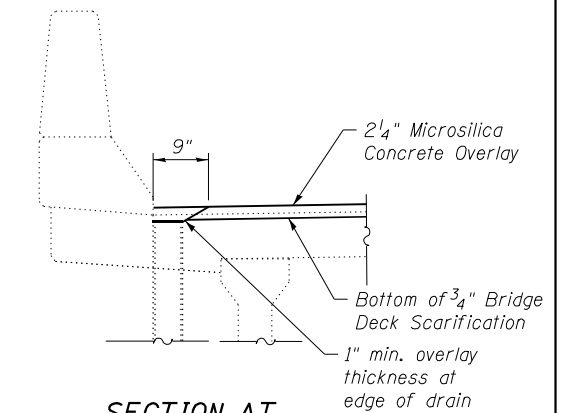
**STAGE I CONSTRUCTION**  
(Looking East)



**STAGE II CONSTRUCTION**  
(Looking East)



**TOP PLAN AT OPEN DECK DRAINS**



**SECTION AT OPEN DECK DRAINS**  
(Showing overlay taper)

**Notes:**

See Roadway Plans for Maintenance of Traffic Details.  
The limits of the proposed Bridge Deck Scarification and Bridge Deck Overlay extend from the west end of the west approach pavement to the east end of the east approach pavement including the approach shoulders.  
The depth of the overlay on the approaches may be adjusted in the field as directed by the Engineer.

MODEL: Default  
FILE NAME: C:\licent\pdm\1515151016\036\045\44 - Stage.dgn

**FEHR GRAHAM**  
ENGINEERING & ENVIRONMENTAL  
ILLINOIS DESIGN FIRM NO. 184-003525

USER NAME = mescale1	DESIGNED -	REVISED -
PLOT SCALE = N/A	DRAWN MCE	REVISED -
PLOT DATE = 09/20/2022	CHECKED MCB	REVISED -
	DATE -	REVISED -

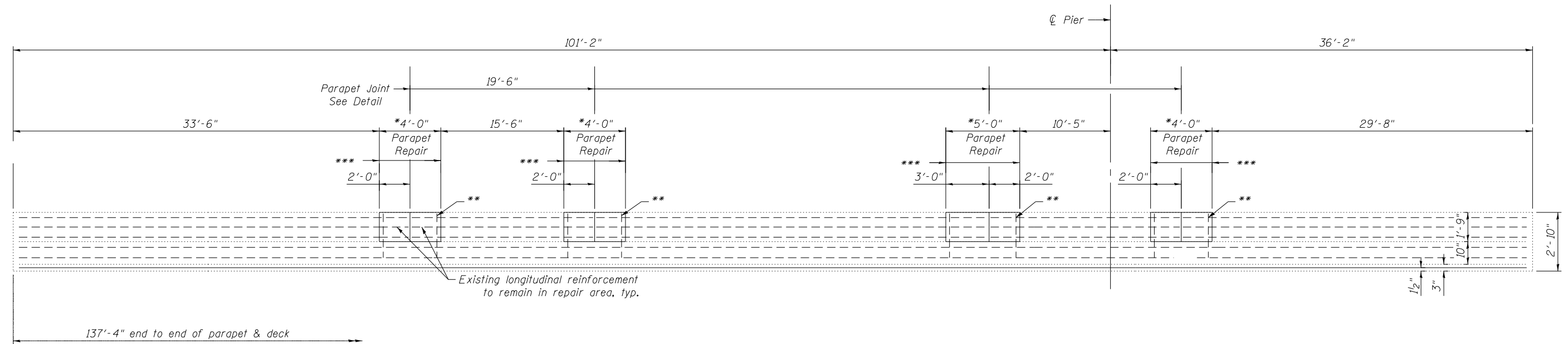
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**STAGE CONSTRUCTION**  
**SN 036-0044**

SCALE: N/A SHEET 2 OF 3 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
522	(6B-2-BR;(6B-3-BR)BJR)BRR,BDR)	HENDERSON	39	21
			CONTRACT NO. 68G41	
ILLINOIS FED. AID PROJECT				

FEHR GRAHAM PROJECT NUMBER: 15-1016N



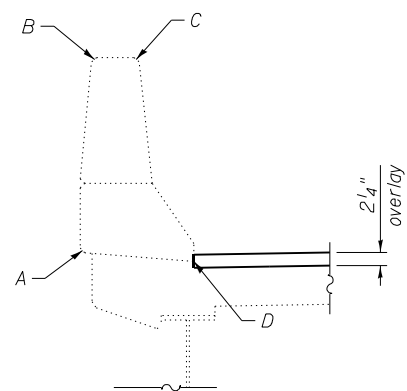
**INSIDE FACE OF NORTH PARAPET**  
(South parapet similar) (repair at North parapet only)

Note:  
 \*Parapet Repair consists of the removal and replacement of the top portion of the parapet. The removal is paid for as Concrete Removal and the new concrete is paid for as Concrete Superstructure.  
 \*\*Existing vertical reinforcement to remain  
 \*\*\*Bonded Joint

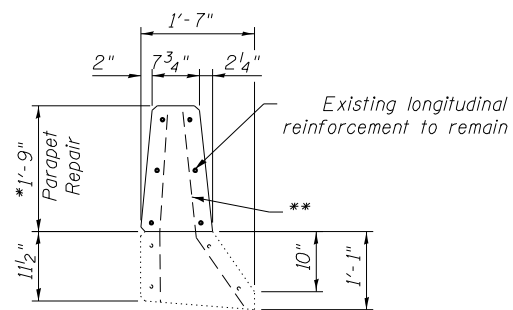
Note:  
 Protective Coat (Special) to cover from point A through points B, C & D of the existing & new portions of the bridge & wing wall parapets

**Bill of Material**

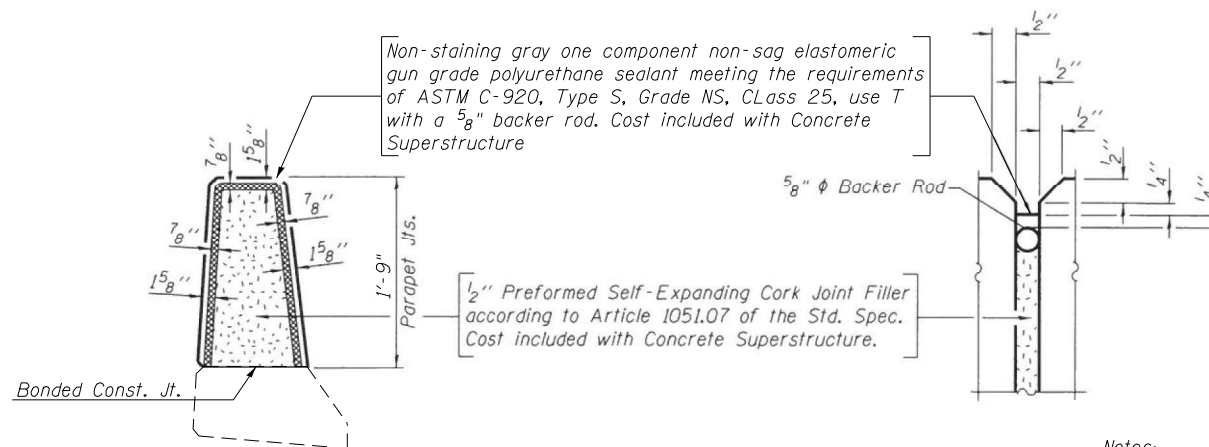
Bar	No.	Size	Length	Shape
Concrete Removal			Cu. Yd.	0.9
Concrete Superstructure			Cu. Yd.	0.9



**SECTION THRU BRIDGE PARAPET**  
showing deck drain & limits of sealing



**SECTION THRU BRIDGE PARAPET REPAIRS**



**PARAPET JOINT DETAILS**

Notes:  
 Existing reinforcement bars extending into the removal areas shall be cleaned, straightened and incorporated into the new construction.  
 Any reinforcement bars that extend into the new construction that are damaged during the concrete removal shall be replaced with an approved bar splicer or anchorage system.  
 Cost included with Concrete Removal.

MODEL: Default  
 FILE NAME: C:\micsoft\p15\15-101\68035-0044 - Parapet repair.dgn  
 FEHR GRAHAM PROJECT NUMBER: 15-1016N

Existing Structure: SN 036-0045, originally built in 1992 as FAP 522, Section (6B-3)BR. The superstructure consists of 3 span continuous composite W27x84 steel wide flange beams with a cast in place 7 1/2" concrete deck. The substructure consists of open stub abutments and concrete encased pile bent piers.

Stage construction will be utilized

### SCOPE OF WORK

1. Replace Expansion Joints
2. Scarify deck & approach slab 3/4" and add 2 1/4" micro-silica overlay
3. Adjust shoulder inlets on approaches
4. Remove and replace curb on west approach & add curb to east approach
5. Parapet & downspout Repairs
6. Apply Protective Coat (Special) on parapets
7. Apply Protective Coat to deck and overlay

### INDEX OF SHEETS

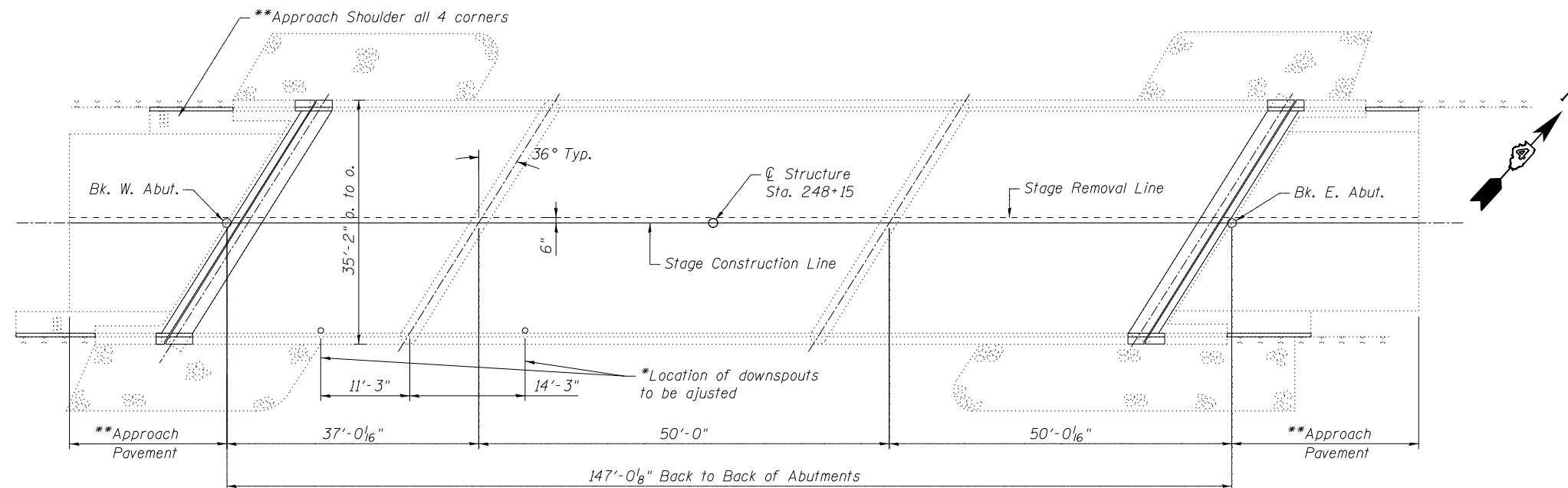
1. General Plan and Elevation
2. Stage Construction Details
3. Concrete Removal Details
4. Superstructure Details
5. Superstructure & Parapet Repair Details
6. Preformed Joint Strip Seal
7. Inlet Drain Adjustment
8. Bar Splicer Assembly and Mechanical Splicer Details

### GENERAL NOTES

All Structural Steel shall be AASHTO M270, Grade 50. No field welding is permitted except as specified in the contract documents. Reinforcement bars designated (E) shall be epoxy coated. Prior to pouring the new concrete deck, all heavy or loose rust, loose mill scale, and other loose or potentially detrimental foreign material shall be removed from the surfaces in contact with concrete. Tightly adhered paint may remain unless otherwise noted. Removal shall be accomplished by methods that will not damage the steel and the cost will be included in the pay item covering removal of the existing concrete. As directed by the Engineer, existing construction accessories welded to the top flange of the beams shall be removed. The weld areas shall be ground flush and inspected for cracks using magnetic particle testing (MT) or dye penetrant testing (PT) by qualified personnel approved by the Engineer. Any cracks that cannot be removed by grinding 1/4 inch deep shall be identified and reported to the Bureau of Bridges and Structures for further disposition. The cost of removing welded accessories, grinding and inspecting weld areas and grinding cracks will be paid for according to article 109.04 of the Standard Specifications. Plan dimensions and details relative to existing plans are subject to nominal construction variations. The Contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in scope of the work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work. Joint openings shall be adjusted according to Article 520.04 of the Standard Specification when the deck is poured at an ambient temperature other than 50°. Protective Coat shall be applied to the concrete wearing surface and new deck concrete at the joints. If the existing name plate falls within the area of Concrete Removal it shall be removed, stored and reattached to the new concrete at the same location. Cost included with Concrete Removal.



ELEVATION



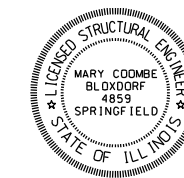
PLAN

(see sheet 2 for staged removal and construction)

\*\*See sheets 4 of 8 for dimensions

### TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Concrete Removal	Cu. Yd.	14.0		14.0
Concrete Superstructure	Cu. Yd.	15.6		15.6
Protective Coat	Sq. Yd.	726		726
Reinforcement Bars, Epoxy Coated	Pound	1810		1810
Bar Splicers	Each	26		26
Preformed Joint Strip Seal	Foot	84		84
Frames and Grates to be Adjusted	Each	2		2
Downspout Adjustment	Each	2		2
Surface Filler, Special	Gallon	0.8		0.8
Bridge Deck Grooving	Sq. Yd.	697		697
Protective Coat (Special)	Sq. Yd.	232		232
Bridge Deck Scarification 3/4"	Sq. Yd.	691		691
Bridge Deck Microsilica Concrete Overlay 2 1/4"	Sq. Yd.	689		689



*Mary Coombe Bloxdorf*

ILLINOIS STRUCTURAL NO. 4859  
EXPIRES 11/30/24  
DATE: 12/13/22

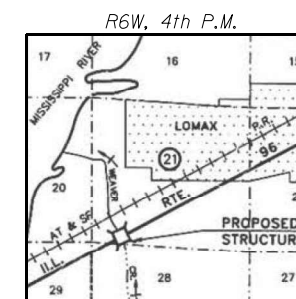


\*DRAIN DOWNSPOUT IMAGE

\* The Contractor shall remove the existing temporary sheet metal "patch", realign the upper & lower portions of the aluminum downspout and re-weld the joint in the field. All work will be paid for at the contract unit price per each for Downspout Adjustment.

### DESIGN STRESSES

Proposed Concrete  
f'c = 4,000 psi  
(From Existing Plans)  
f'c = 3,500 psi  
fy = 60,000 psi (reinforcement)  
fy = 50,000 psi (Structural Steel, M223, Gr. 50)  
fy = 36,000 psi (M183)



LOCATION SKETCH

GENERAL PLAN AND ELEVATION  
IL 96 OVER WEAVER CREEK  
SECTION [(Z-4B-15D)BR]BDR.SCR  
HENDERSON COUNTY  
STATION 248+15  
STRUCTURE NUMBER 036-0045

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**FEHR GRAHAM**  
ENGINEERING & ENVIRONMENTAL  
ILLINOIS DESIGN FIRM NO. IB4-003525

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PLOT DATE = 11/09/22	CHECKED MCB	REVISED -
	DATE 11/15/22	REVISED -

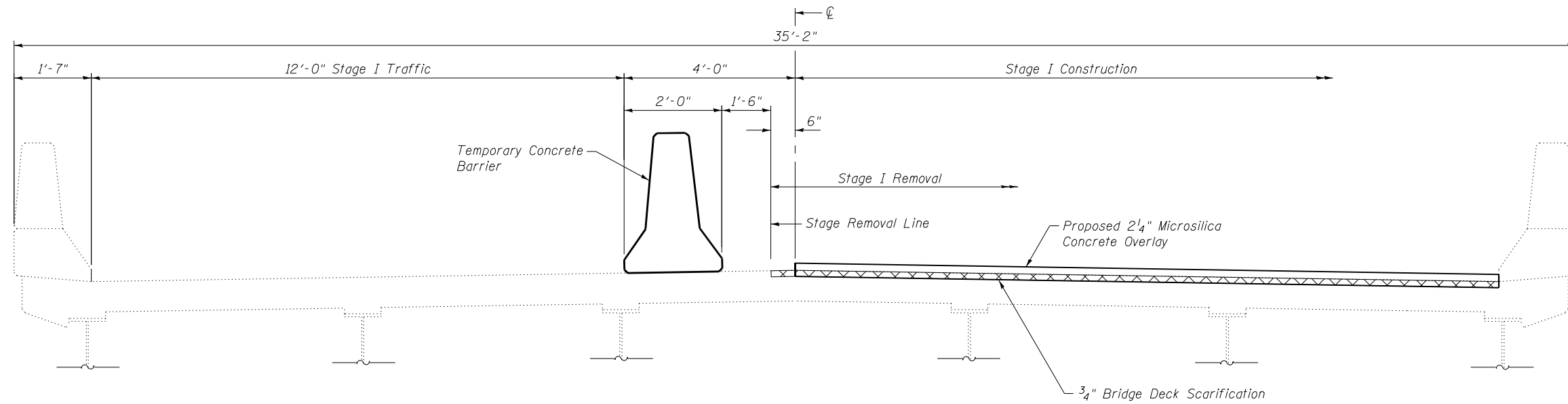
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

GENERAL PLAN AND ELEVATION  
SN 036-0045

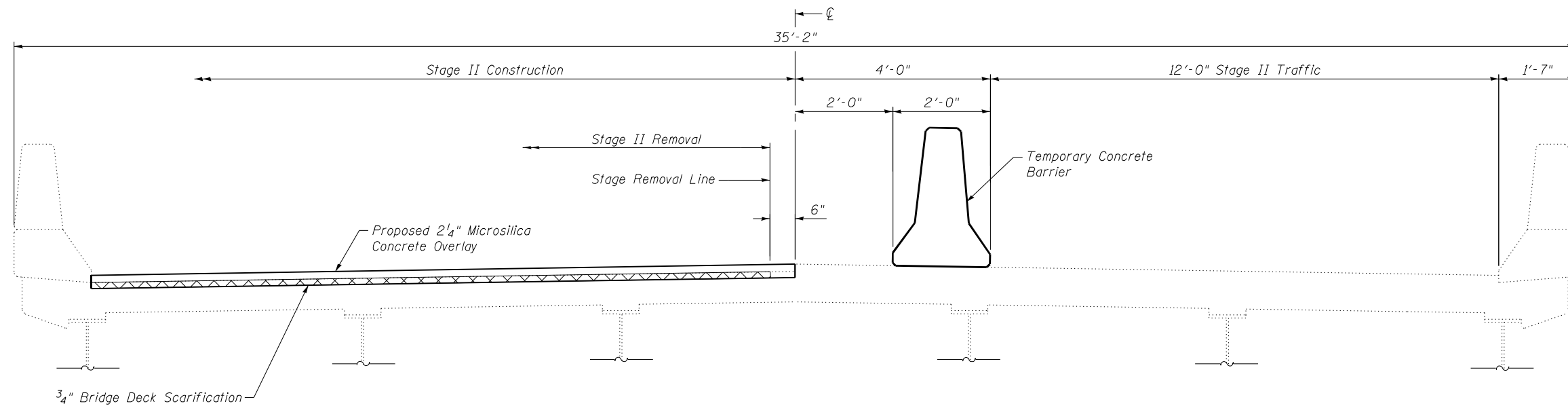
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
522	(6B-2-BR)(6B-3-BR)BDR	HENDERSON	39	23
			CONTRACT NO. 68G41	
		ILLINOIS FED. AID PROJECT		

FEHR GRAHAM PROJECT NUMBER: 15-1016N



**STAGE I CONSTRUCTION**  
(Looking East)

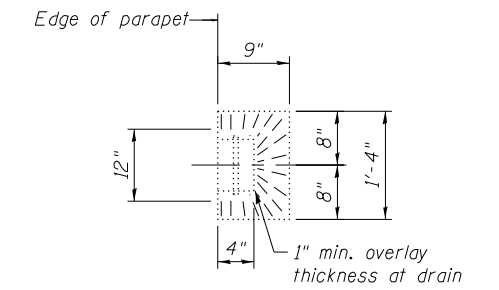


**STAGE II CONSTRUCTION**  
(Looking East)

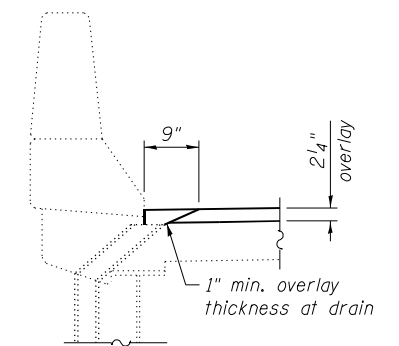
**Notes:**

Cross sections are shown outside expansion joint areas.  
The limits of Bridge Deck Scarification and Bridge Deck Overlay extend from the end of the west approach pavement to the end of the east approach pavement, not including the joint replacement areas. The limits also include the approach shoulders to the face of curb or edge of pavement if there is no curb. The depth of the overlay on the approaches may be adjusted in the field as directed by the Engineer and proposed curb heights adjusted accordingly to maintain 4" height above the proposed overlay.

Parapet and deck will be removed full width in expansion joint reconstruction area. See Plan on Sheet 3 of 8.  
See Roadway Plans for Maintenance of Traffic Details.



**TOP PLAN AT OPEN DECK DRAINS**



**SECTION AT OPEN DECK DRAINS**  
(Showing overlay taper)

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**FEHR GRAHAM**  
ENGINEERING & ENVIRONMENTAL  
ILLINOIS DESIGN FIRM NO. 184-003525

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	DATE -	REVISED -

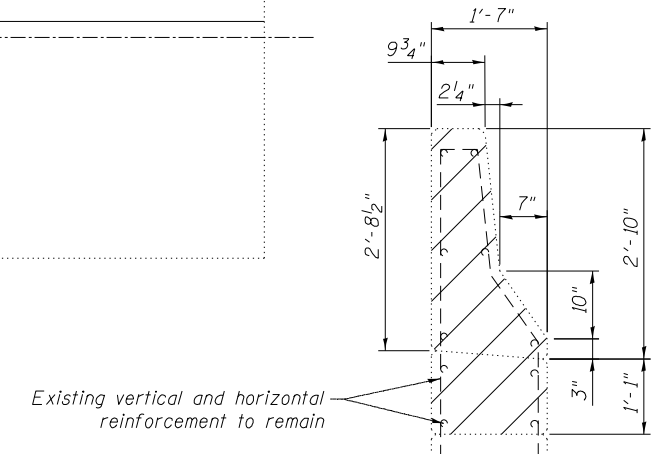
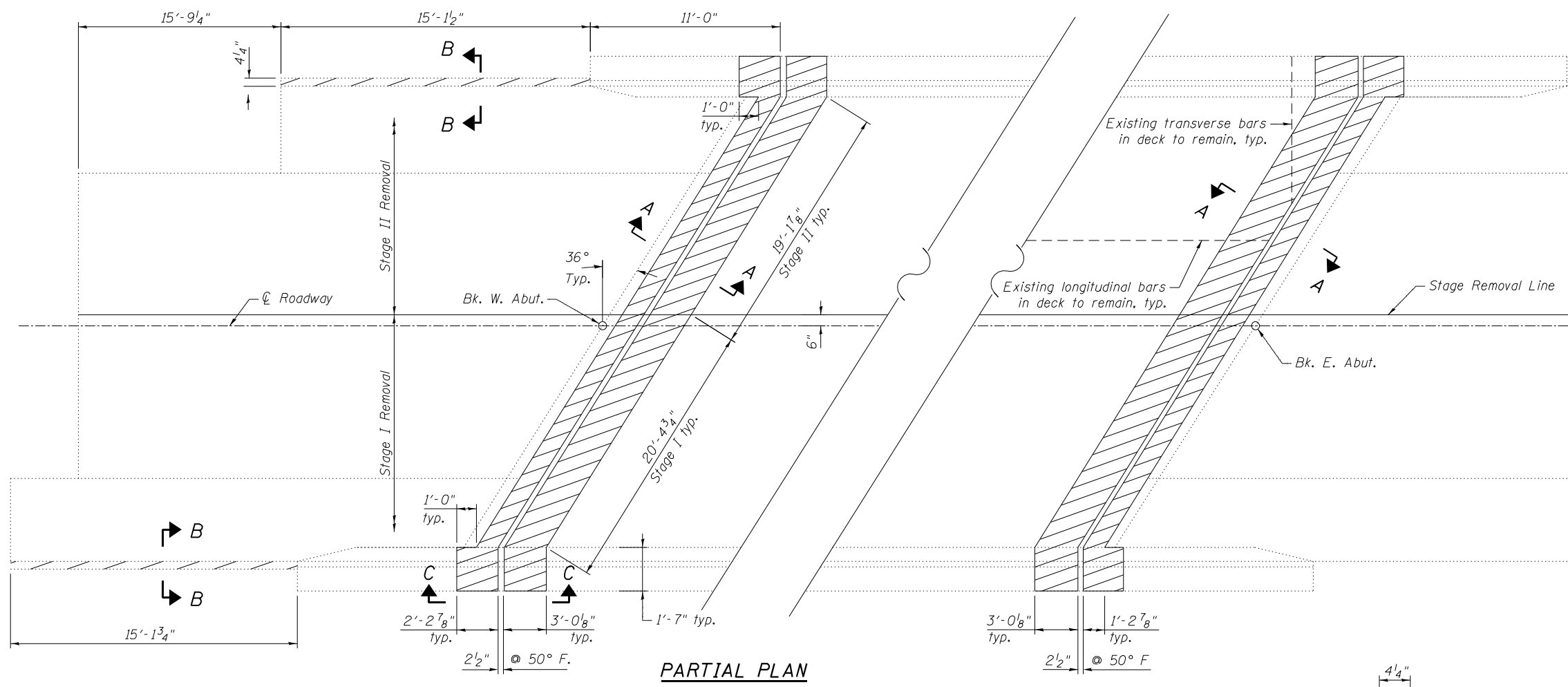
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**STAGE CONSTRUCTION**  
**SN 036-0045**

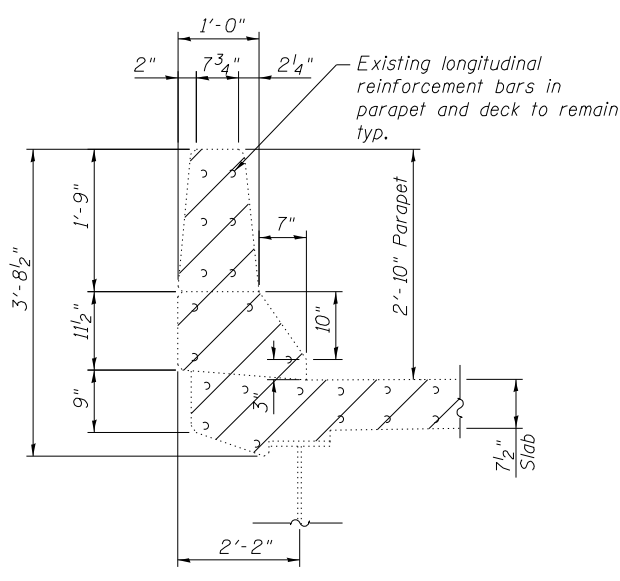
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			CONTRACT NO. 68G41	
ILLINOIS FED. AID PROJECT				

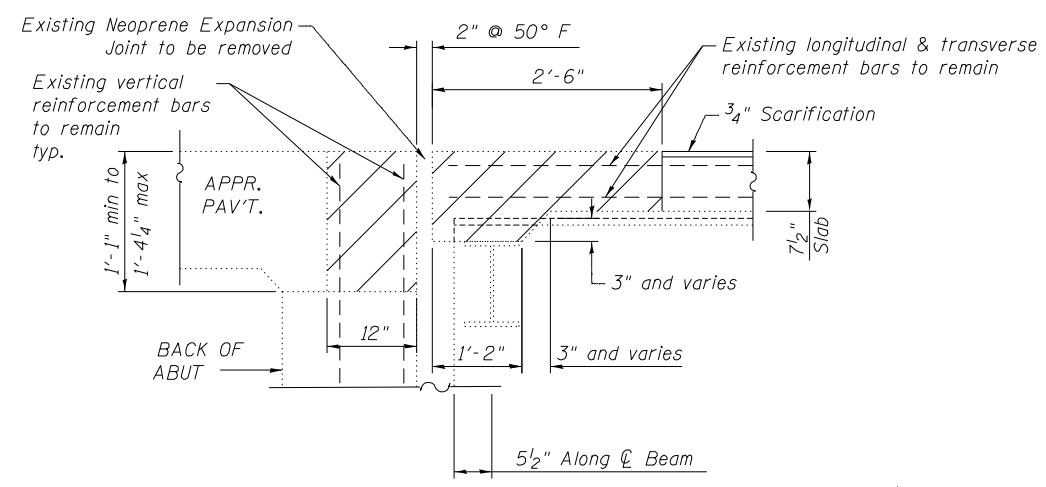




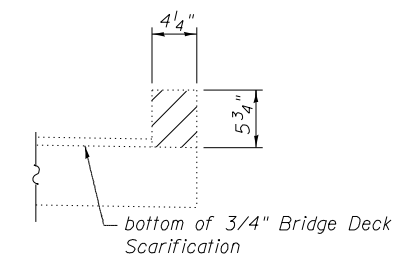
**SECTION THROUGH ABUT. WING WALL**



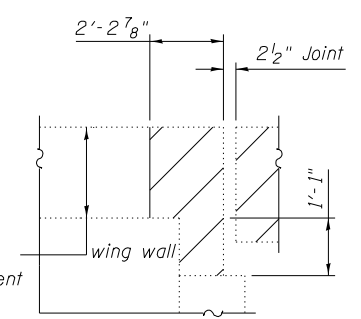
**SECTION THRU PARAPET**



**SECTION A-A**



**SECTION B-B**



**VIEW C-C**  
Similar NE corner, opposite NW & SE corners

**GENERAL NOTES**

Hatched areas indicate "Concrete Removal".  
 Removal and disposal of the existing Neoprene expansion joint and other materials that fall within the limits of the Concrete Removal, will not be paid for separately, but shall be included in the cost of "Concrete Removal".  
 If the existing Name Plate falls within the limits of the Concrete Removal, it shall be removed and reinstalled in its original location in accordance with IDOT Std. 515001. Cost is included with Concrete Superstructure.  
 Existing reinforcement bars extending into the removal areas shall be cleaned, straightened and incorporated into the new construction.  
 Any reinforcement bars that extend into the new construction that are damaged during the concrete removal shall be replaced with an approved bar splicer or anchorage system. Cost included with Concrete Removal.

**BILL OF MATERIAL**

ITEM	UNIT	TOTAL
Concrete Removal	Cu. Yd.	14.0

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**FEHR GRAHAM**  
 ENGINEERING & ENVIRONMENTAL  
 ILLINOIS DESIGN FIRM NO. 184-003525

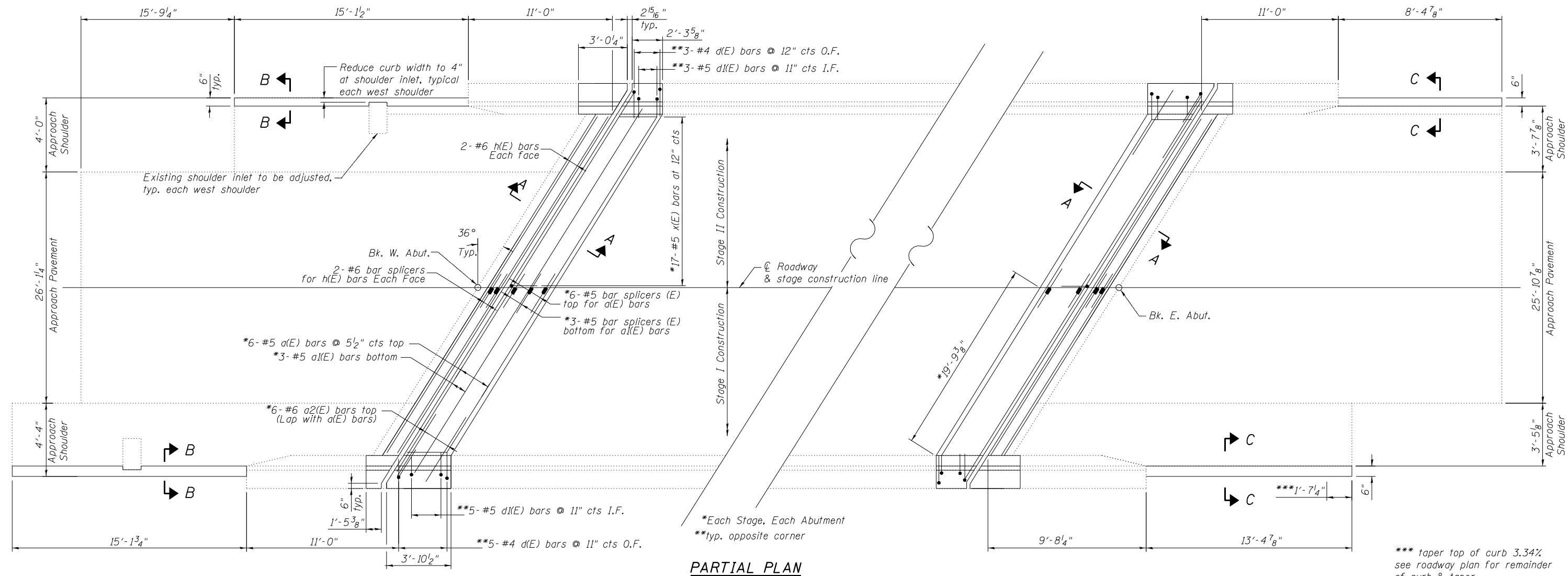
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**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**CONCRETE REMOVAL**  
**SN 036-0045**

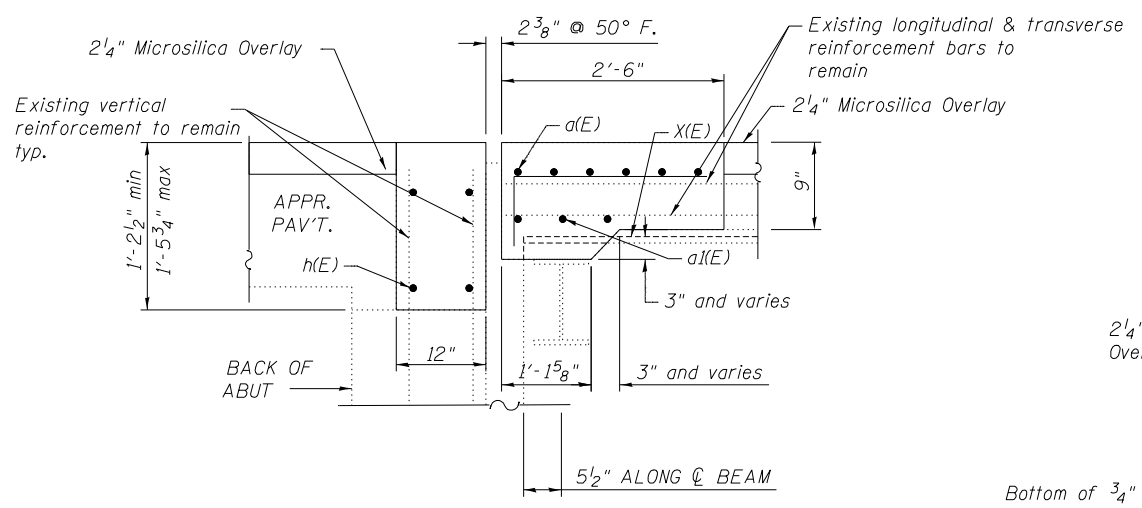
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		ILLINOIS	FED. AID PROJECT	

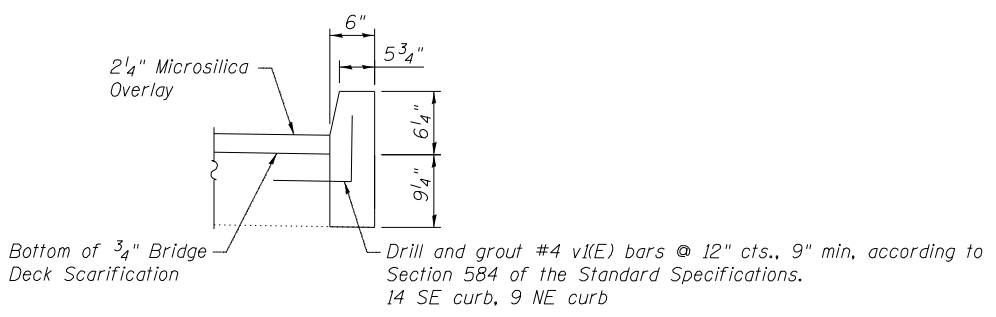


**PARTIAL PLAN**

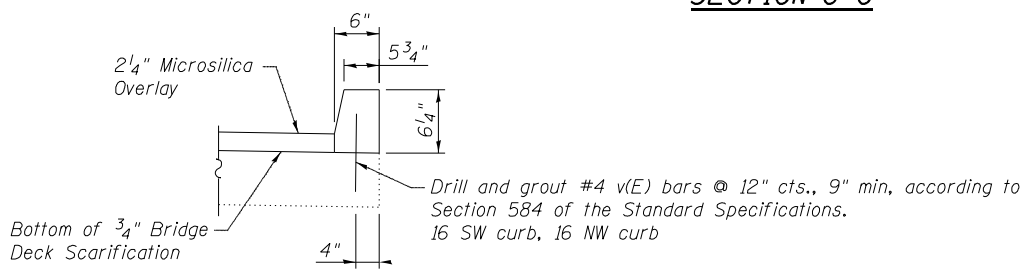
\*\*\* taper top of curb 3.34% see roadway plan for remainder of curb & taper.



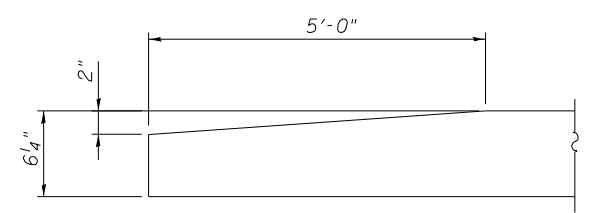
**SECTION A-A**



**SECTION C-C**



**SECTION B-B**



**ELEVATION AT WEST END OF WEST APPROACH CURBS**  
(showing taper at top)

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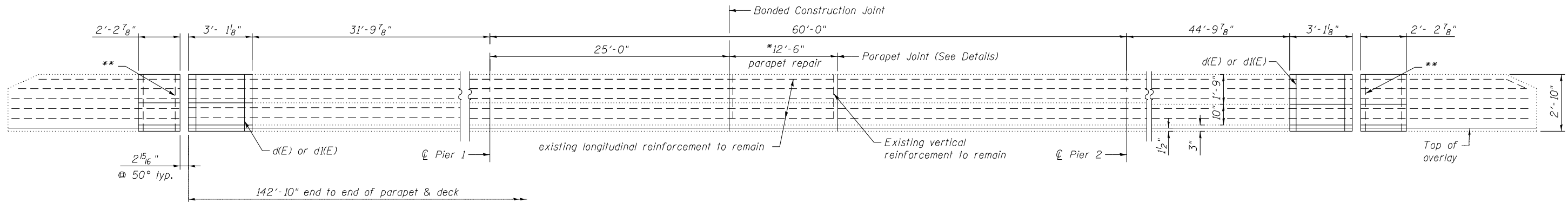
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ENGINEERING & ENVIRONMENTAL  
ILLINOIS DESIGN FIRM NO. 184-003525

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PLOT DATE = 11/08/22	CHECKED MCB	REVISED -
	DATE 11/08/22	REVISED -

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

<b>SUPERSTRUCTURE DETAILS</b>	
<b>SN 036-0045</b>	
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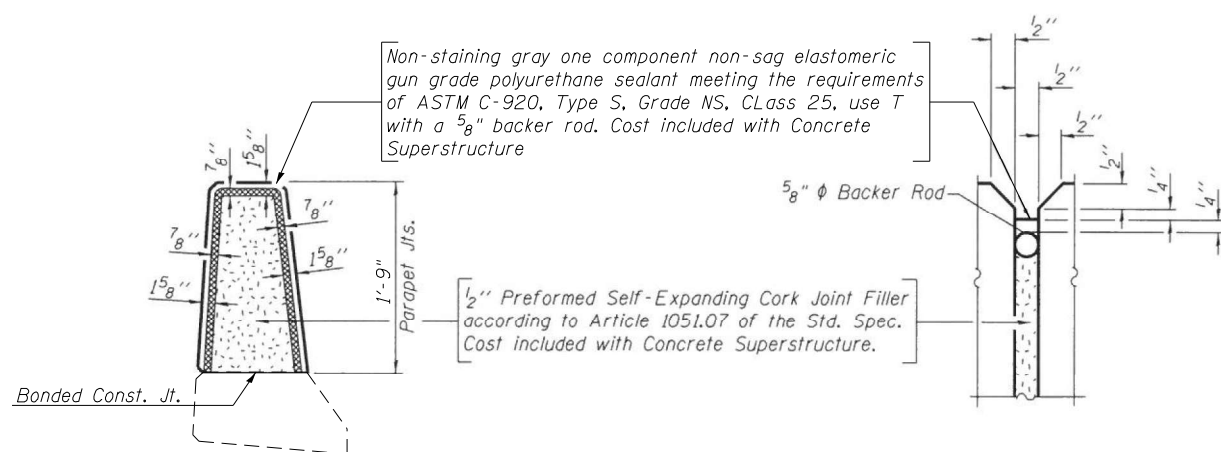
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CONTRACT NO. 68G41			ILLINOIS FED. AID PROJECT	



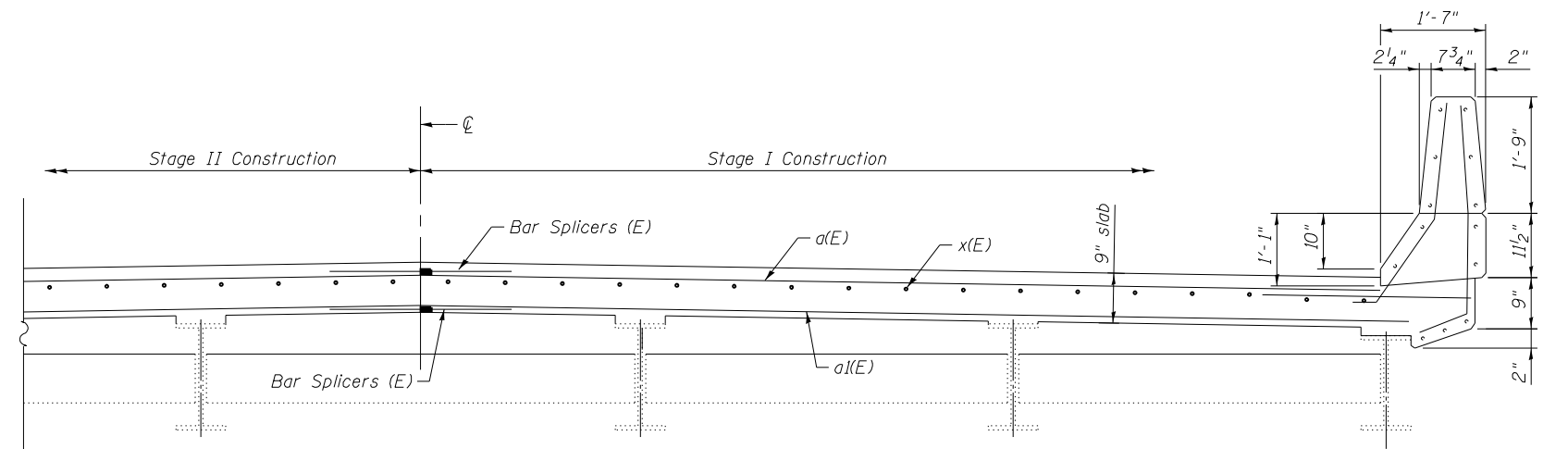
**INSIDE FACE OF NORTH PARAPET**

(South parapet similar) (repair at North parapet only)

Note:  
\*Parapet Repair consists of the removal and replacement of the top portion of the parapet. The removal is paid for as Concrete Removal and the new concrete is paid for as Concrete Superstructure.



**PARAPET JOINT DETAILS**

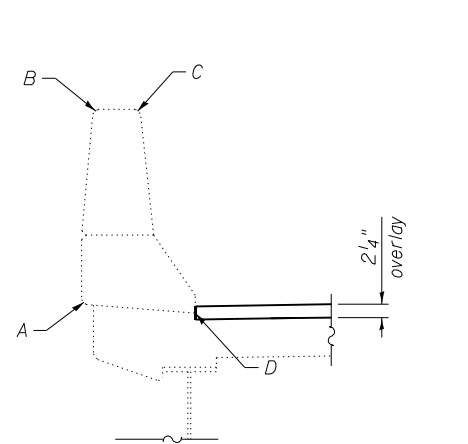


**PARTIAL CROSS SECTION AT EXPANSION JOINT**

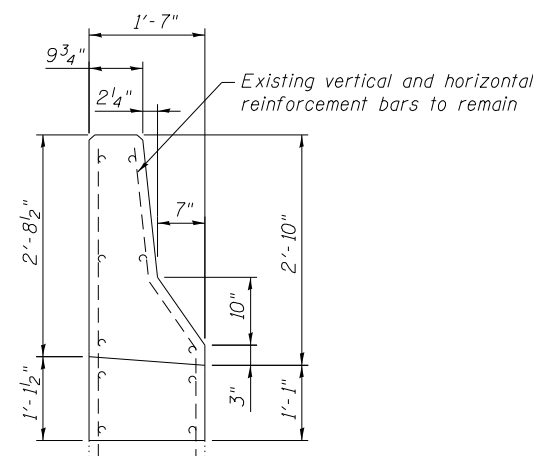
(Looking East)

See Section A-A for bar placement and existing reinforcement to remain

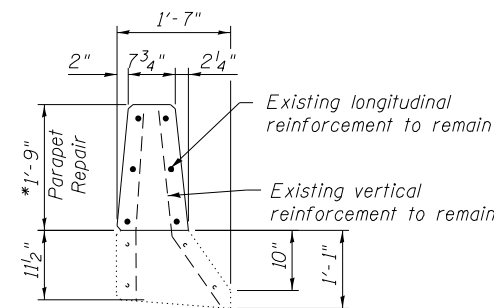
Note:  
Protective Coat (Special) to cover from point A through points B, C & D of the existing & new portions of the bridge & wing wall parapets



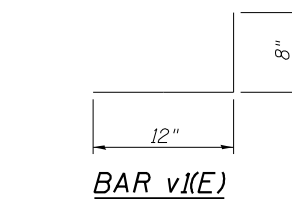
**SECTION THRU BRIDGE PARAPET**  
showing deck drain & limits of sealing



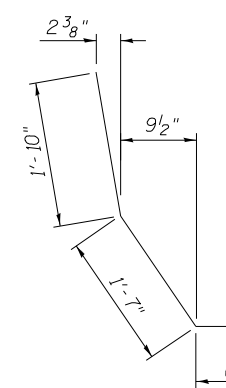
**SECTION THROUGH ABUT. WING WALL**



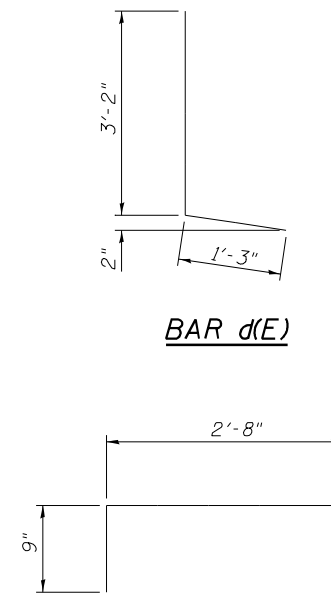
**SECTION THRU BRIDGE PARAPET REPAIR**



**BAR v(E)**



**BAR d(E)**



**BAR x(e)**

**Bill of Material**

Bar	No.	Size	Length	Shape
a(E)	24	#5	20'-6"	—
a1(E)	12	#5	19'-9"	—
a2(E)	24	#6	5'-0"	—
d(E)	16	#4	4'-5"	L
d1(E)	16	#5	3'-11"	\
h(E)	16	#6	19'-9"	—
v(E)	32	#4	1'-1"	—
v1(E)	23	#4	1'-8"	—
x(E)	68	#5	3'-5"	—
Concrete Removal			Cu. Yd.	0.7
Concrete Superstructure			Cu. Yd.	15.6
Reinforcement Bars, Epoxy coated			Pound	1810
Bar Splicers			Each	26

Note:  
Work this sheet with sheet 4 of 8.

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FEHR GRAHAM PROJECT NUMBER: 15-1016N

**FEHR GRAHAM**  
ENGINEERING & ENVIRONMENTAL  
ILLINOIS DESIGN FIRM NO. 184-003525

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DESIGNED -  
DRAWN MCE  
PLOT SCALE = N/A  
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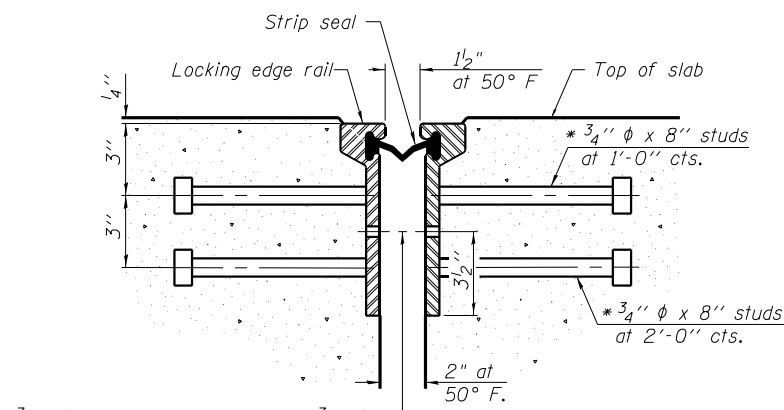
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SUPERSTRUCTURE DETAILS PARAPET REPAIR  
SN 036-0045

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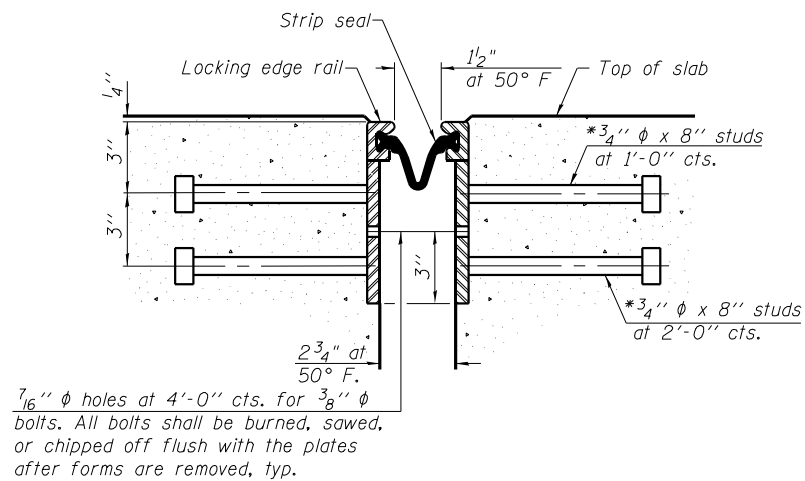
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522	(6B-2-BR;(6B-3-BR)B/R)BRR,BDR)	HENDERSON	39	27
			CONTRACT NO. 68G41	
ILLINOIS FED. AID PROJECT				

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



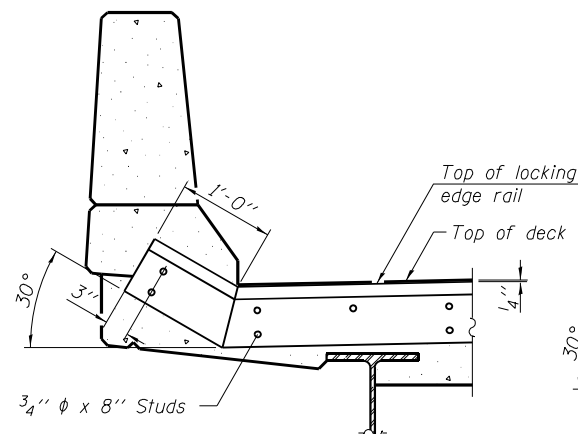
7/16"  $\phi$  holes at 4'-0" cts. for 3/8"  $\phi$  bolts. All bolts shall be burned, sawed, or chipped off flush with the plates after forms are removed, typ.

**SECTION THRU ROLLED RAIL JOINT**



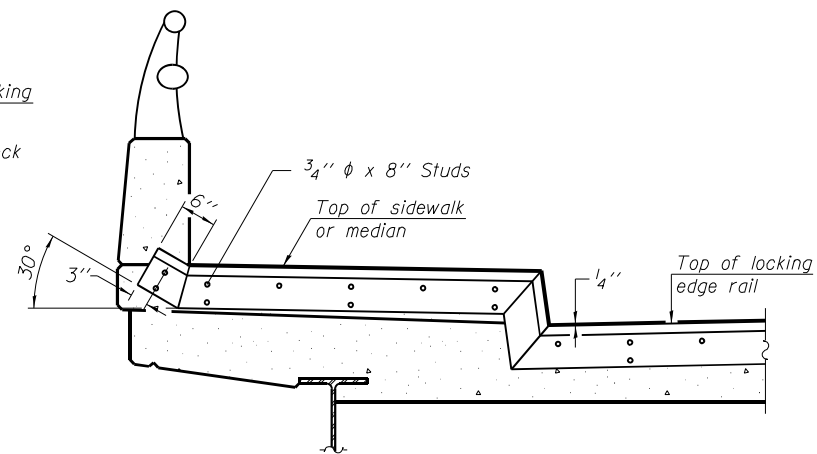
7/16"  $\phi$  holes at 4'-0" cts. for 3/8"  $\phi$  bolts. All bolts shall be burned, sawed, or chipped off flush with the plates after forms are removed, typ.

**SECTION THRU WELDED RAIL JOINT**



**AT PARAPET**

See Section A-A for end treatment of skews > 30°.

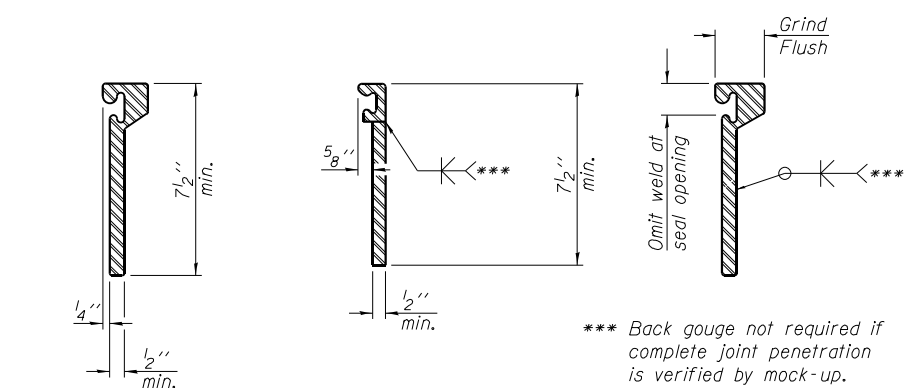


**AT SIDEWALK OR MEDIAN**

Shorter plates with a single row of studs at 12" cts. may be necessary on medians which are shallower than 9". See manufacturer's recommendation.

**TYPICAL END TREATMENTS**

**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 conceptual only, except for the minimum dimensions shown. The actual configuration of the Locking Edge Rails and matching strip seal may vary from manufacturer to manufacturer. Flanged edge rails will not be allowed. Locking Edge Rails may be spliced at slope discontinuities.  
 The manufacturer's recommended installation methods shall be followed.  
 The joint opening and deck dimensions detailed on the superstructure are based on a rolled rail expansion joint. If the Contractor elects to use the welded rail expansion joint, the opening and deck dimensions shall be modified according to the dimensions detailed on this sheet. Required modifications shall be made at no additional cost to the State.  
 All steel components shall be galvanized after fabrication according to Article 520.03 of the Standard Specifications.  
 Maximum space between rail segments at stage lines shall be 3/16", sealed with a suitable sealant.

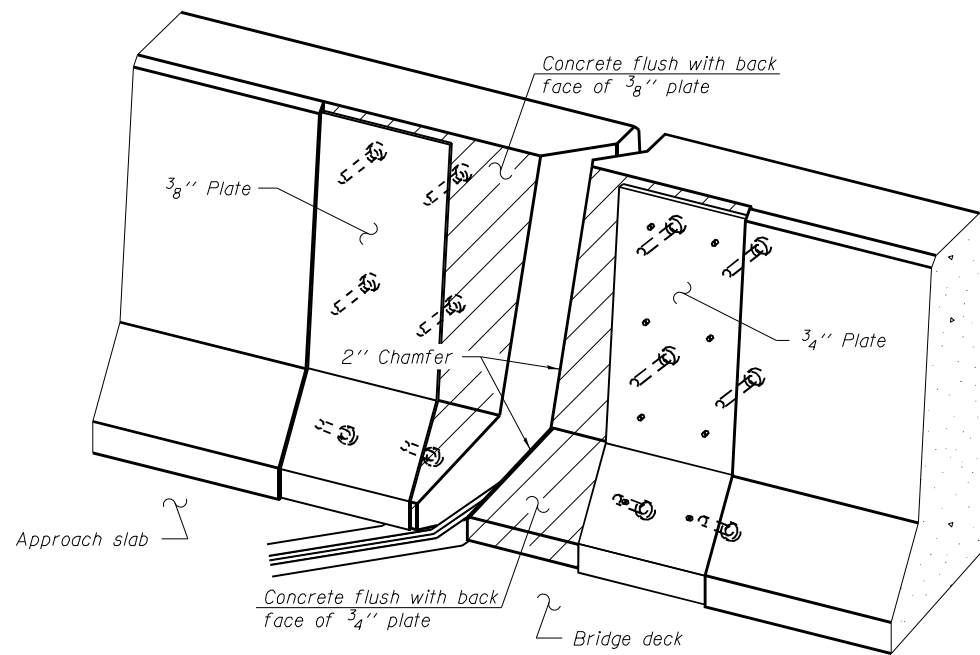


**ROLLED EXTRUDED RAIL**

**WELDED RAIL**

**LOCKING EDGE RAIL SPLICE**

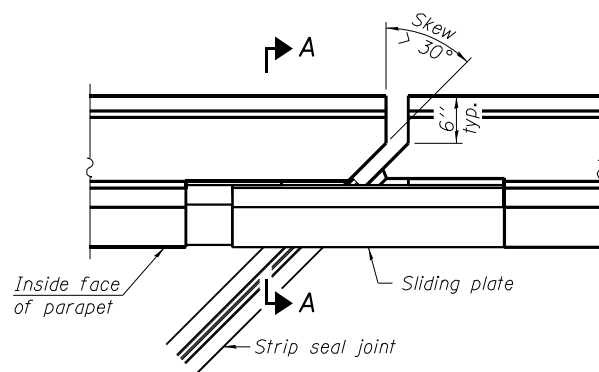
The inside of the locking edge rail groove shall be free of weld residue.  
 Rolled rail shown, welded rail similar.



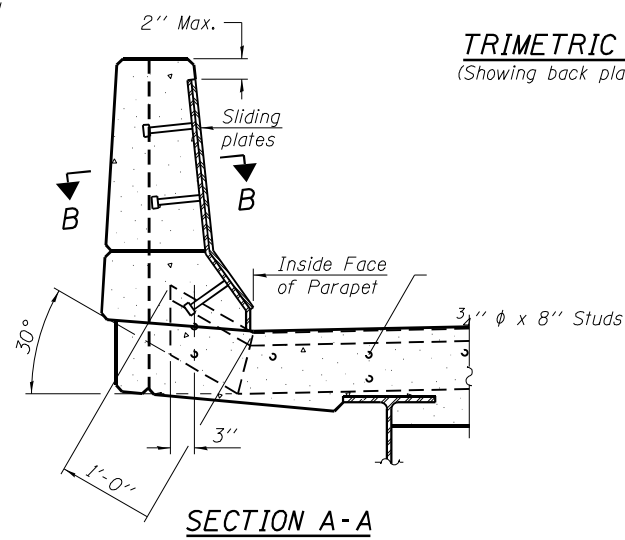
**TRIMETRIC VIEW**

(Showing back plates only)

**LOCKING EDGE RAILS**

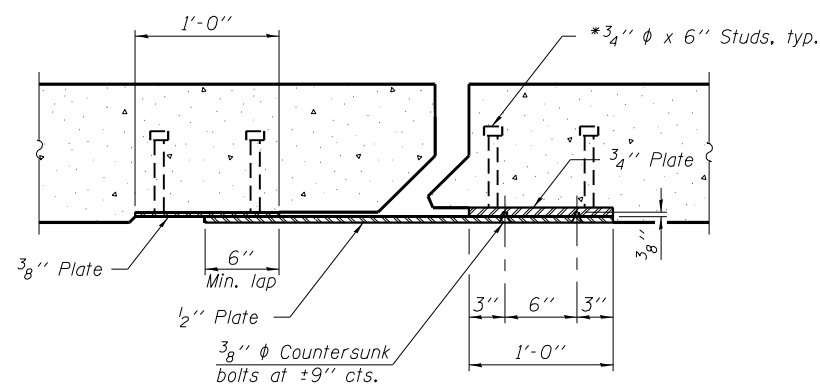


**PLAN**



**SECTION A-A**

**POINT BLOCK DETAILS**  
(for skews > 30°)



**SECTION B-B**

**BILL OF MATERIAL**

Item	Unit	Total
Preformed Joint Strip Seal	Foot	84

MODEL Path: \\c:\projects\15-1016\15-1016\035-0045 - Preformed Joint Strip.dgn

**FEHR GRAHAM**  
 ENGINEERING & ENVIRONMENTAL  
 ILLINOIS DESIGN FIRM NO. 184-003525

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 DESIGNED -  
 DRAWN MCE  
 PLOT SCALE = N/A  
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 DATE 11/08/22

DESIGNED -  
 DRAWN MCE  
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 DATE 11/08/22

REVISED -  
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 REVISED -

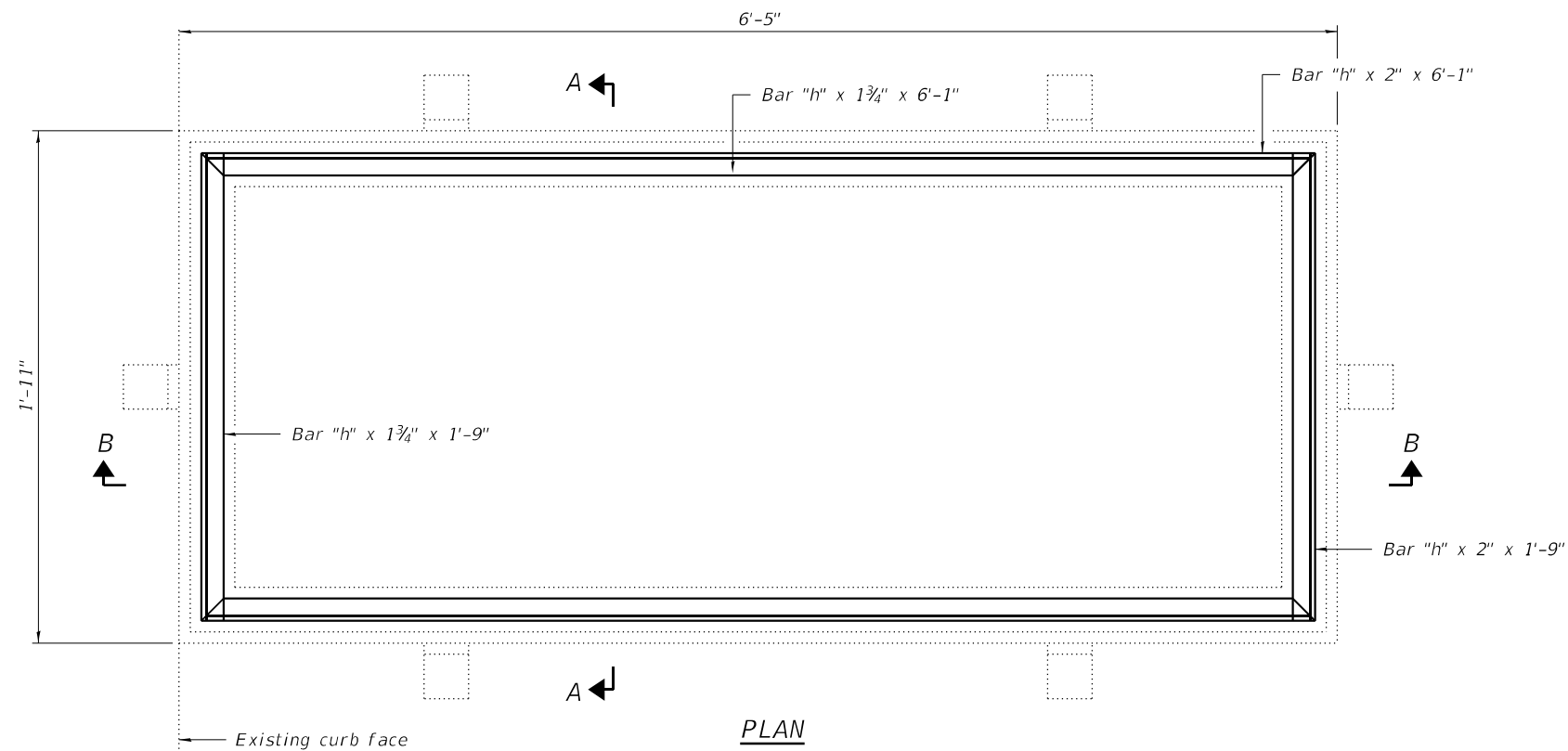
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**PREFORMED JOINT STRIP SEAL**  
**SN 036-0045**

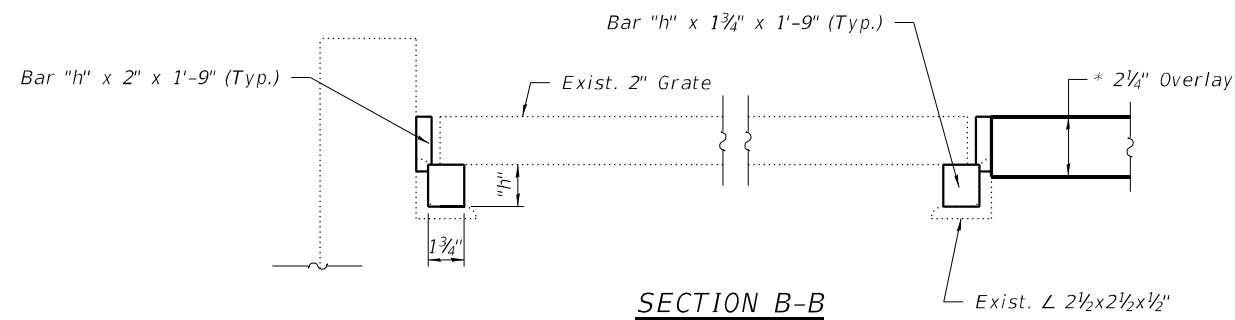
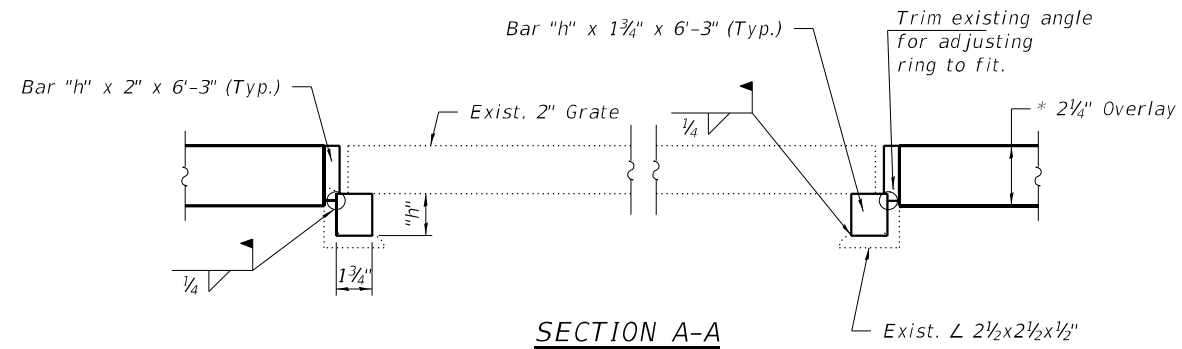
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
522	(6B-2-BR)(6B-3-BR)(B)(BRR)(BDR)	HENDERSON	39	28
				CONTRACT NO. 68G41
ILLINOIS FED. AID PROJECT				

FEHR GRAHAM PROJECT NUMBER: 15-1016N



Notes:  
 The contractor shall ensure that no damage is done to existing grates to be reused.  
 Shop plans for proposed adjusting scupper ring shall be submitted for approval prior to fabrication.  
 Cost of all labor and materials necessary to remove existing grates, clean existing scuppers, install adjusting scupper rings and reinstalling grates is included in the cost per unit each for Frames and Grates to be Adjusted.  
 All structural steel shall conform to AASHTO Classification M-270 Gr. 36.  
 The adjusting scupper ring shall be galvanized.  
 Bolts shall be 1/2"Ø, AASHTO M164 Type 1, mechanically galvanized.  
 Contractor shall be responsible for field verification of dimensions.



"h" : Height is determined by the engineer in the field to allow for the variable thickness of Microsilica Concrete Overlay.

**BILL OF MATERIAL**

Item	Unit	Total
Frames and Grates to be Adjusted	Each	2

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**FEHR GRAHAM**  
 ENGINEERING & ENVIRONMENTAL  
 ILLINOIS DESIGN FIRM NO. 184-003525

USER NAME = mescaat  
 DRAWN MCE  
 CHECKED MCB  
 PLOT SCALE = N/A  
 PLOT DATE = 11/01/2022

DESIGNED -  
 REVISIONS  
 DATE -

REVISED -  
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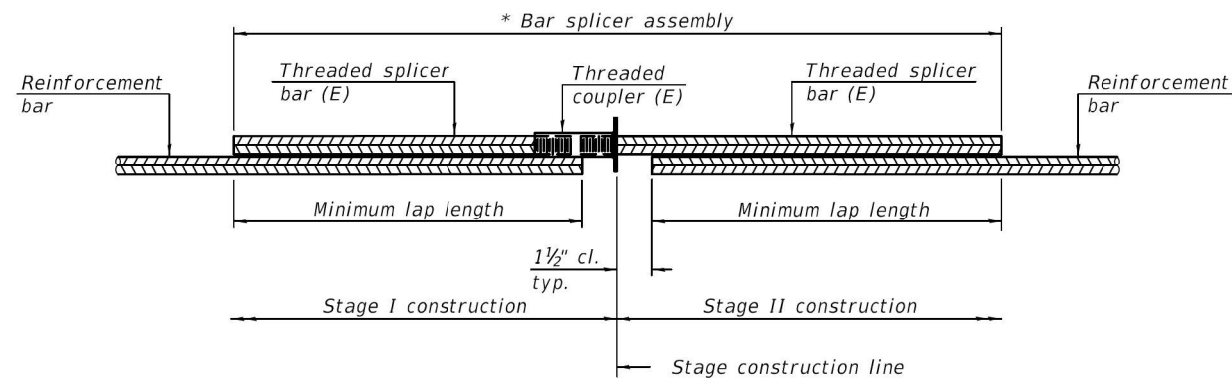
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**INLET DRAIN ADJUSTMENT  
 SN 036-0045**

SCALE: N/A SHEET 7 OF 8 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
522	(6B-2-BR;(6B-3-BR)B)R)BRR,BDR	HENDERSON	39	29
			CONTRACT NO. 68G41	
ILLINOIS FED. AID PROJECT				

FEHR GRAHAM PROJECT NUMBER: 15-1016N

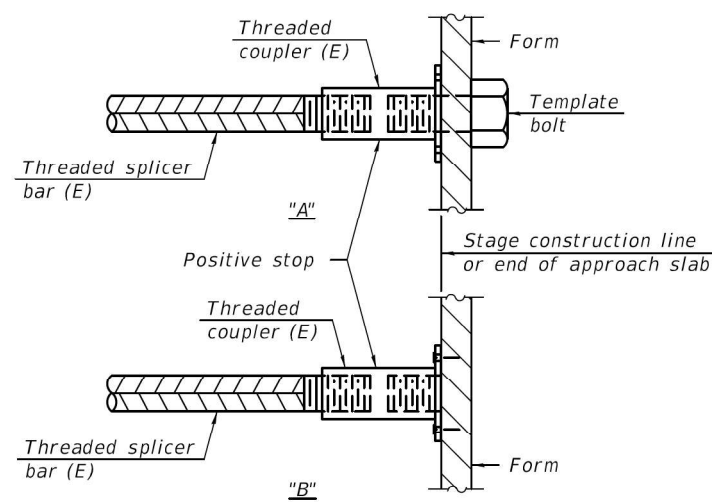


**STANDARD BAR SPLICER ASSEMBLY PLAN**  
 (All components shall be provided from one supplier)

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

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

Location	Bar size	No. assemblies required	Minimum lap length
Expansion Joint	#5	18	3'-6"
End Block	#6	8	4'-0"

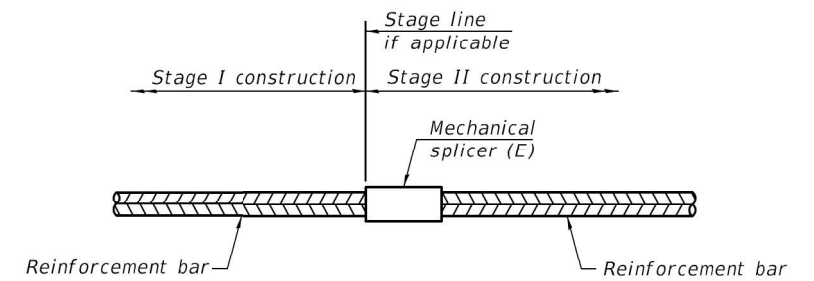


**INSTALLATION AND SETTING METHODS**

"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.

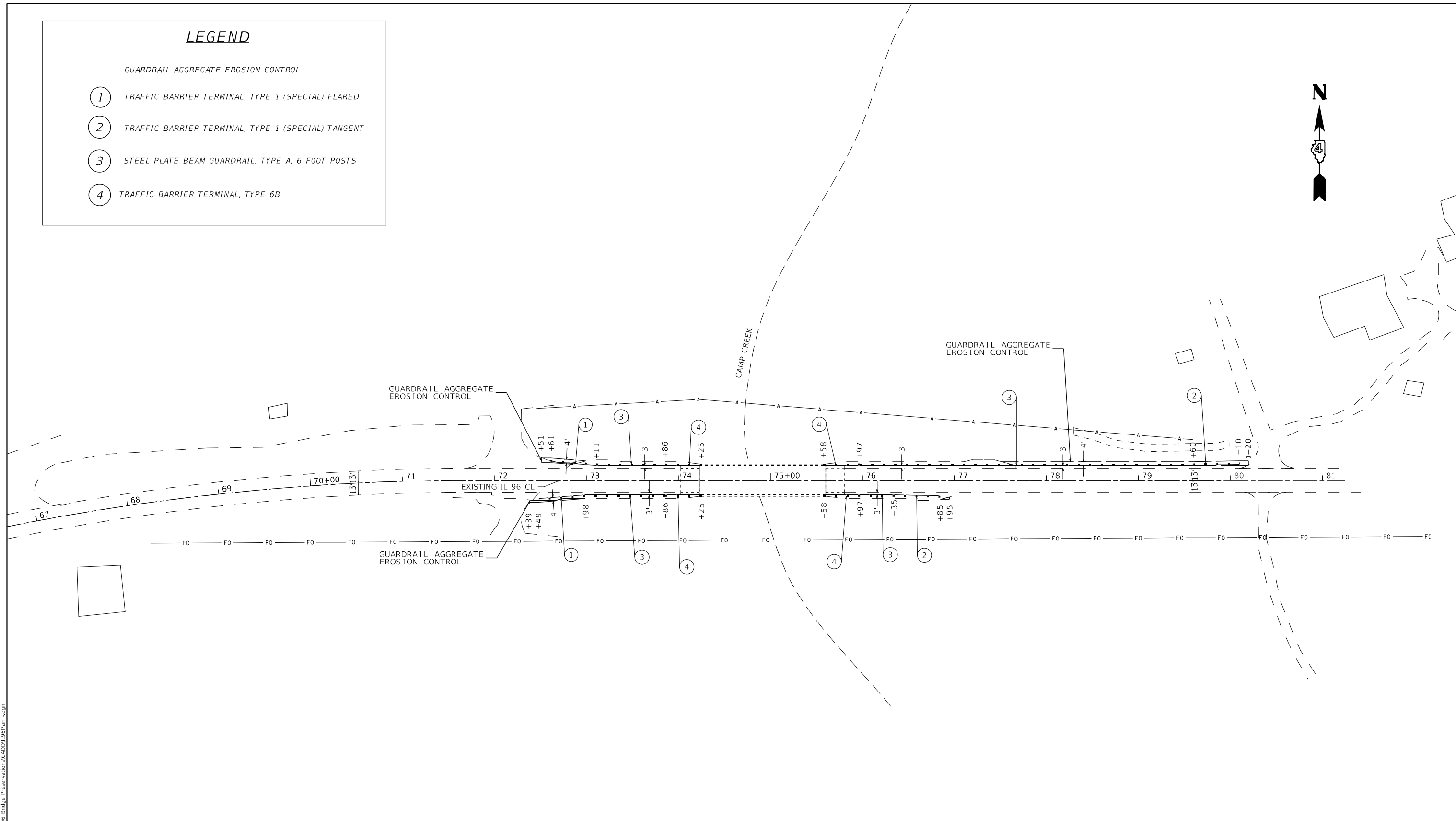
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PLOT DATE = 11/08/2022	CHECKED MCB	REVISED -
	DATE 11/08/22	REVISED -

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
522	(6B-2-BR)(6B-3-BR)(B/R)(BRR,BDR)	HENDERSON	39	30
				CONTRACT NO. 68G41
		ILLINOIS	FED. AID PROJECT	

**LEGEND**

- — — — — GUARDRAIL AGGREGATE EROSION CONTROL
- ① TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) FLARED
- ② TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT
- ③ STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS
- ④ TRAFFIC BARRIER TERMINAL, TYPE 6B



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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

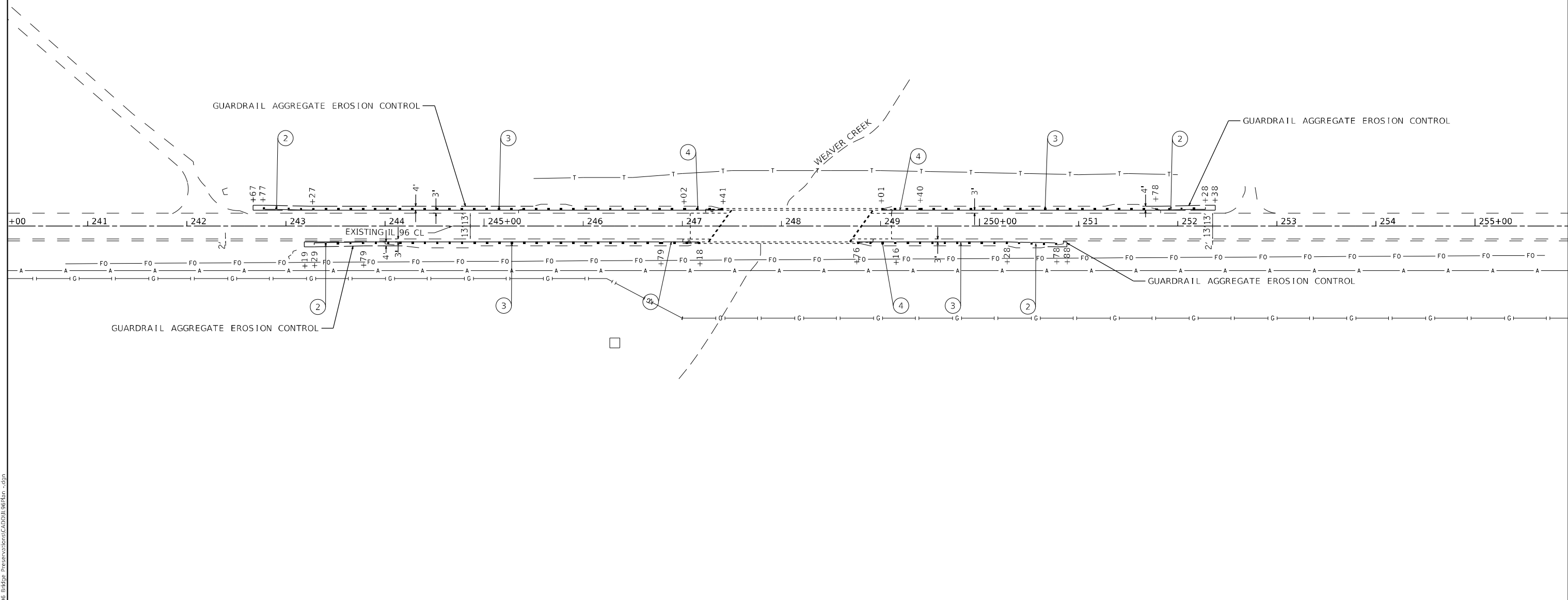
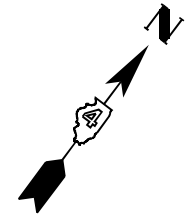
**GUARDRAIL DETAIL  
S.N. 036-0044**

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
522	6B-2-BR;(6B-3-BR)BJR]BRR,BDR	HENDERSON	39	31
CONTRACT NO. 68G41				
ILLINOIS FED. AID PROJECT				

**LEGEND**

- GUARDRAIL AGGREGATE EROSION CONTROL
- ① TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) FLARED
- ② TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT
- ③ STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS
- ④ TRAFFIC BARRIER TERMINAL, TYPE 6



MODEL SHEET: 50 0344  
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PLOT DATE = 12/15/2022	DATE -	REVISED -

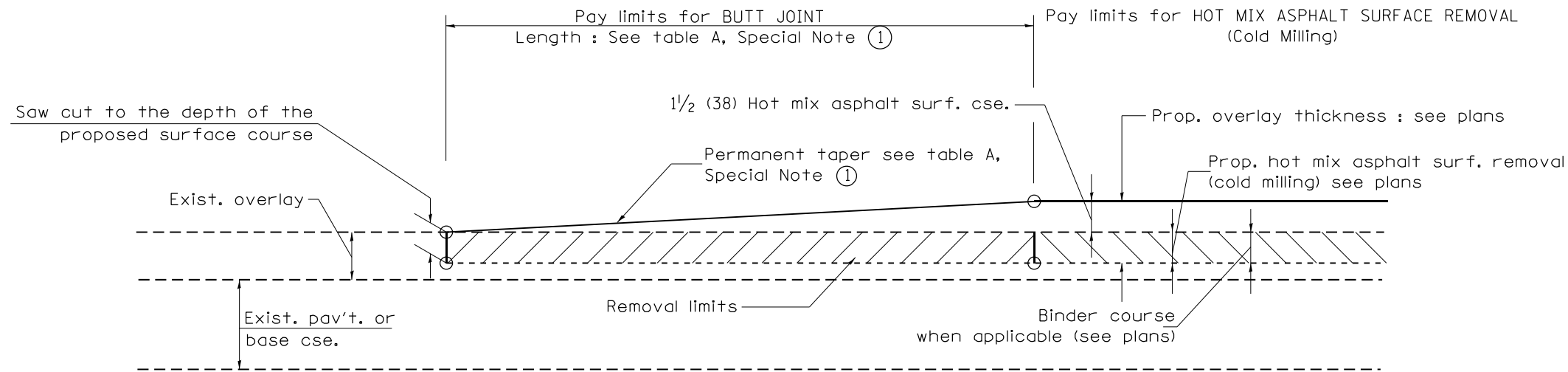
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**GUARDRAIL DETAIL  
S.N. 036-0045**

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
522	6B-2-BR;(6B-3-BR)BJR]BRR.BDR	HENDERSON	39	32
CONTRACT NO. 68G41				
ILLINOIS FED. AID PROJECT				





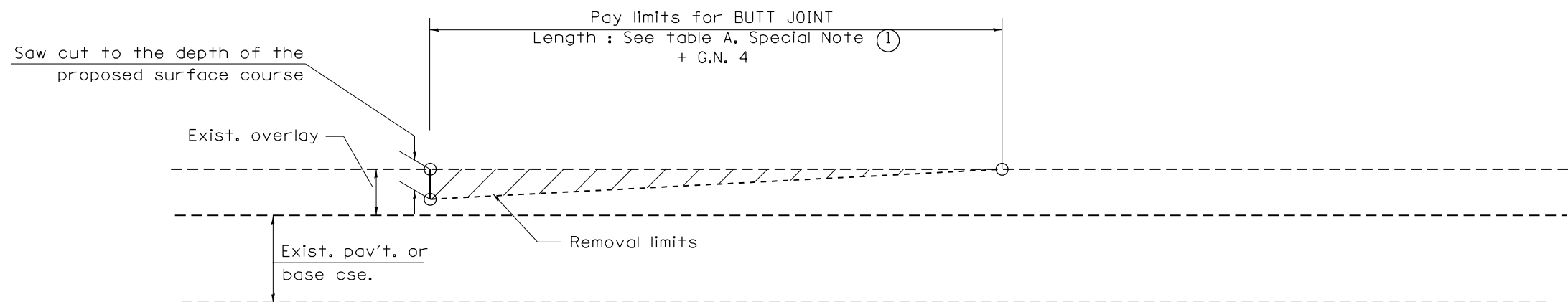
**CASE 1 : WITH HOT MIX ASPHALT SURFACE REMOVAL (COLD MILLING)**

**TABLE A  
TAPER RATES**

SPECIAL NOTE NUMBER	ELEMENT	MAINLINE INTERSTATES & 4-LANE EXPRESSWAYS	ALL OTHERS
①	BUTT JOINT TAPER RATE	1:480	1:240
②	TEMPORARY RAMP TAPER RATE	1:80	1:40

**GENERAL NOTES**

1. The work shall be done in accordance with Article 406.08 and the Special Provision for Butt Joints.
2. The pavement surface to be removed may be either bituminous or P.C. concrete. The work shall be performed in accordance with Article 440.04 and the Special Provisions for Butt Joints.
3. The saw cut joints shall be primed just prior to the placing of bituminous material. The work will be in accordance with the applicable portions of Article 406.05.
4. The length of butt joint is based on the taper rate times change in cold milling depth within the butt joint pay limits, unless otherwise indicated.
5. Temporary ramps are paid for separately and not included in the cost of the butt joints.



**CASE 2 : NO HOT MIX ASPHALT SURFACE REMOVAL (COLD MILLING)**

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

01-01-97	RENUM. C-23.01, NEW REVISION BOX	T.P.	08-21-13	MAJOR MODIFICATIONS	R.D.
04-01-97	CORRECTION TO DEPTH	J.A.	04-12-16	MINOR CORRECTIONS	R.D.
09-15-05	REVISED DESIGNER NOTE	M.M.A.	02-14-17	ADDED NOTE 5	R.D.
10-16-06	REVISED TO 2007 SPEC.	M.A.	07-16-19	Wording and Spelling corrections	R.D.

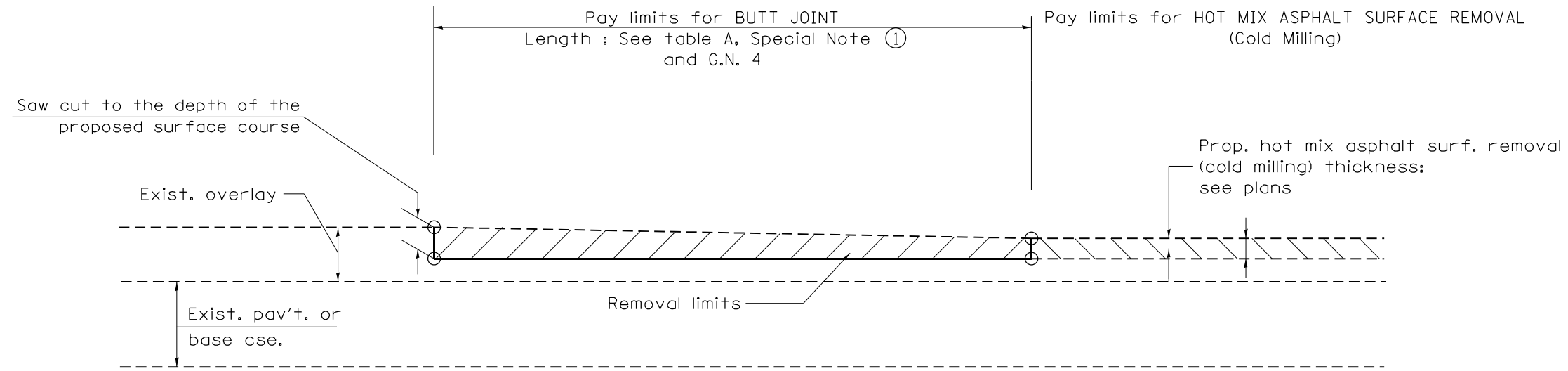
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**BUTT JOINTS**

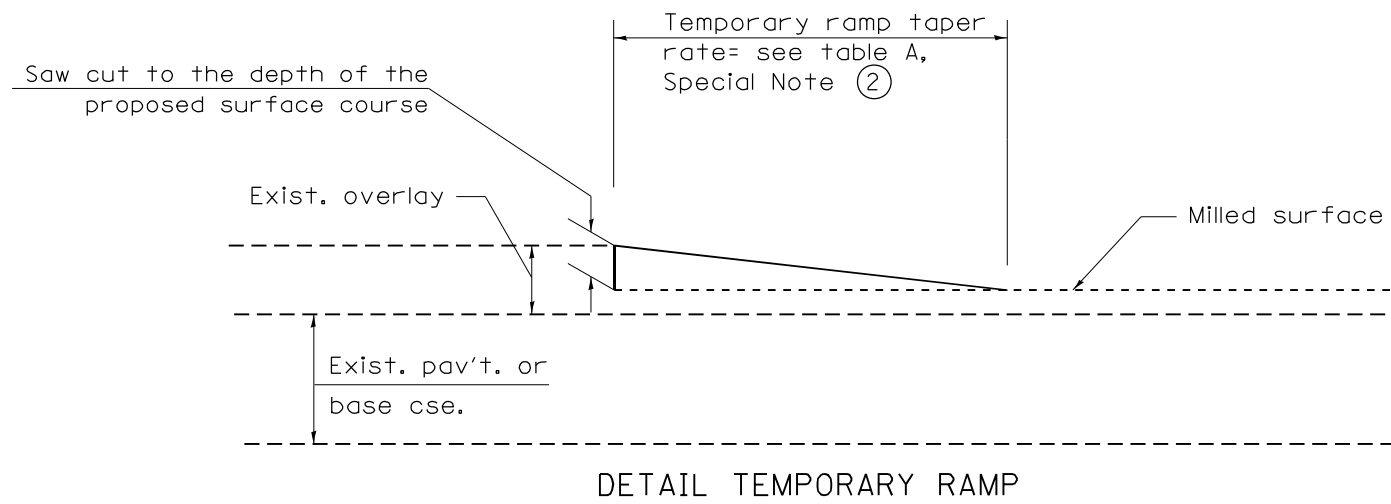
NOT TO SCALE

SHT. 1 OF 3  
CADD STD. 406101-D4

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
522	6B-2-BR:(6B-3-BR)BJR BRR,BDR	HENDERSON	39	33
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 68G41	

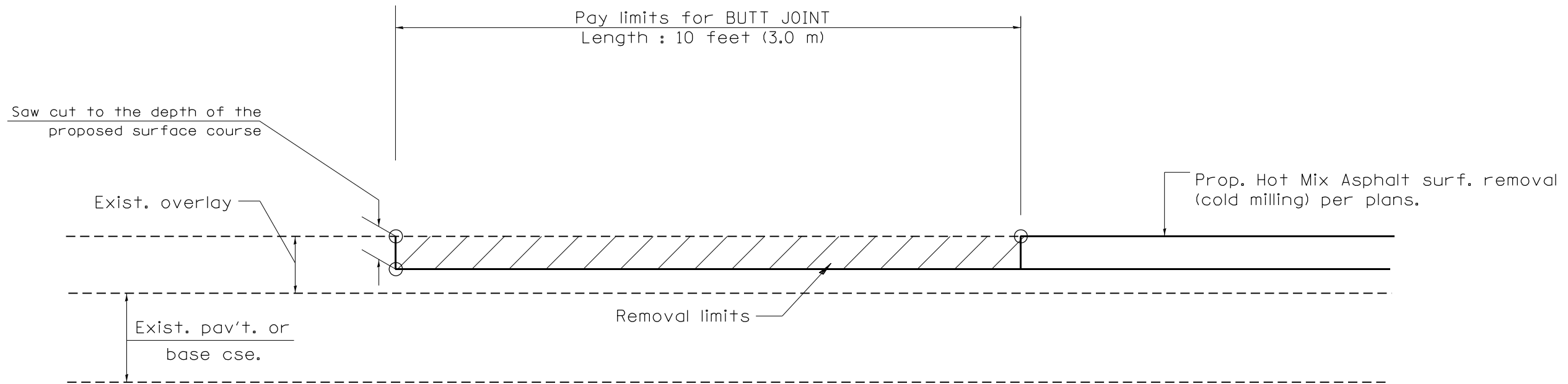


**CASE 3 : HOT MIX ASPHALT SURFACE REMOVAL (COLD MILLING)  
TIE-IN TO EXISTING BITUMINOUS TAPER**



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

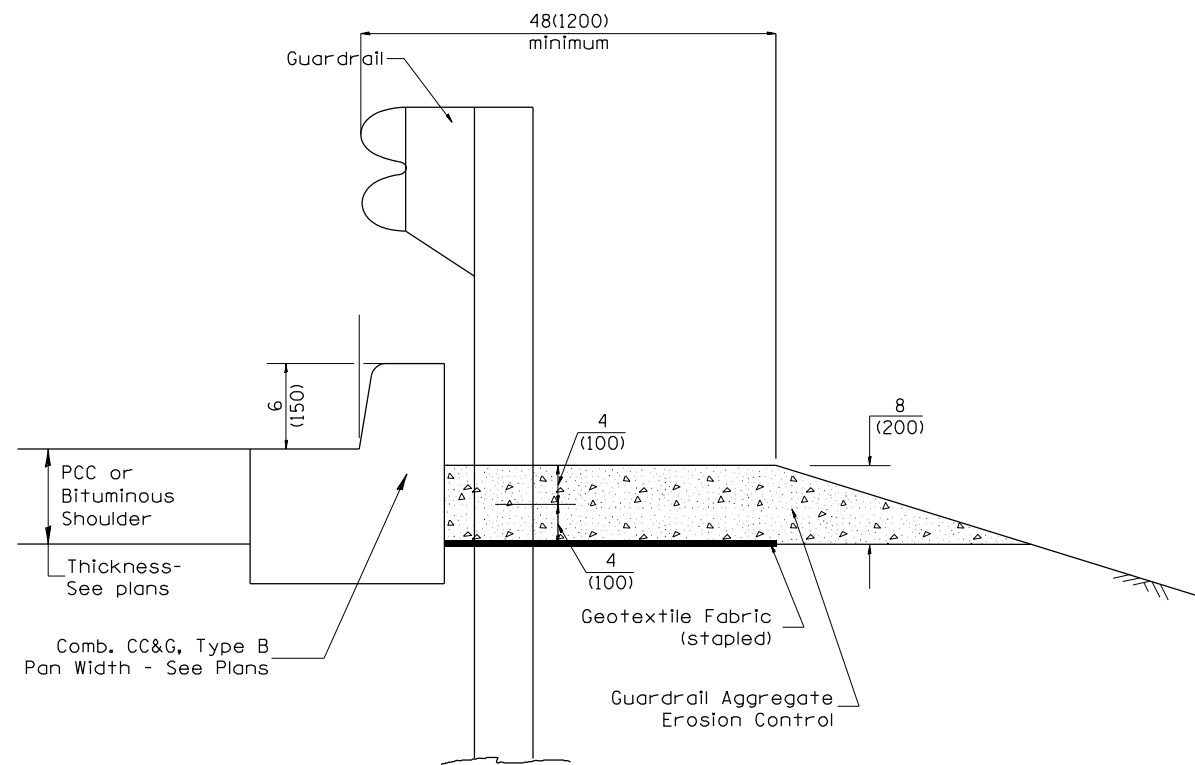
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				NOT TO SCALE				CONTRACT NO. 68G41	
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.					
522	68-2-BR:(68-3-BR)BJR]BRR,BDR	HENDERSON	39	34					
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT							



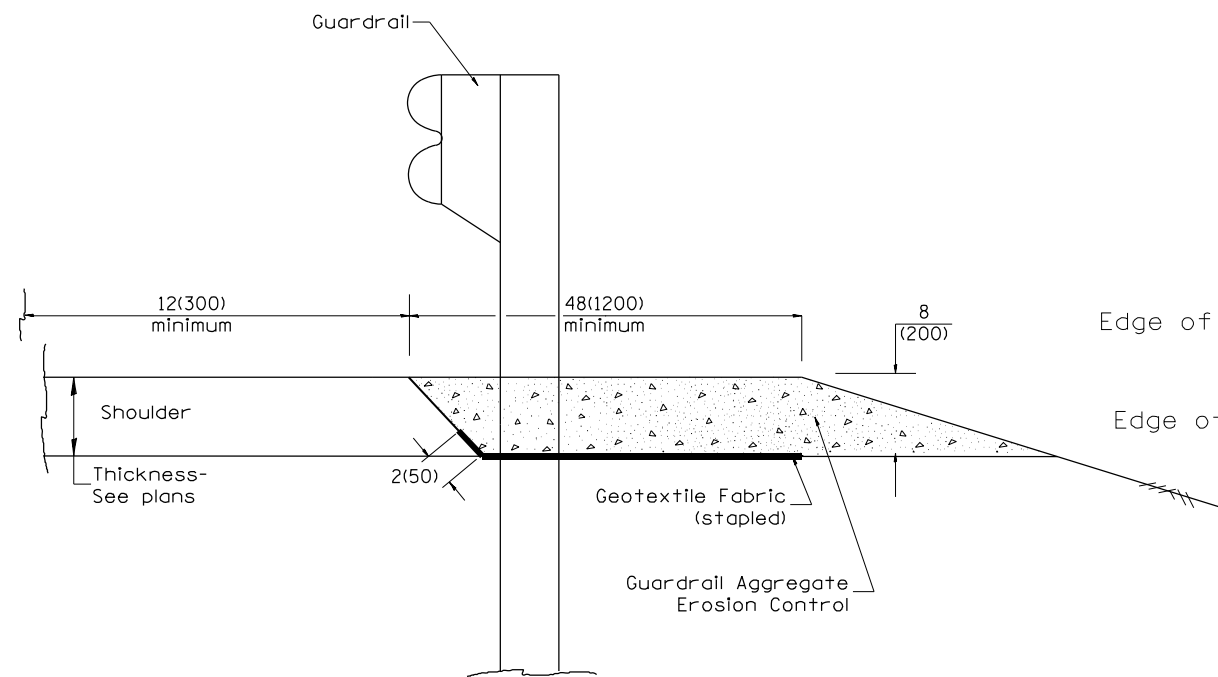
CASE 4 : SINGLE LIFT OVERLAY WITH EQUIVALENT DEPTH  
HOT MIX ASPHALT SURFACE REMOVAL (COLD MILLING)  
TIE-IN TO EXISTING BITUMINOUS TAPER

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

					<b>STATE OF ILLINOIS</b>	<b>BUTT JOINTS</b>	SHT. 3 OF 3
					<b>DEPARTMENT OF TRANSPORTATION</b>		CADD STD. 406101-D4
							NOT TO SCALE
							FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT
							CONTRACT NO. 68G41
							TOTAL SHEETS 39 SHEET NO. 35



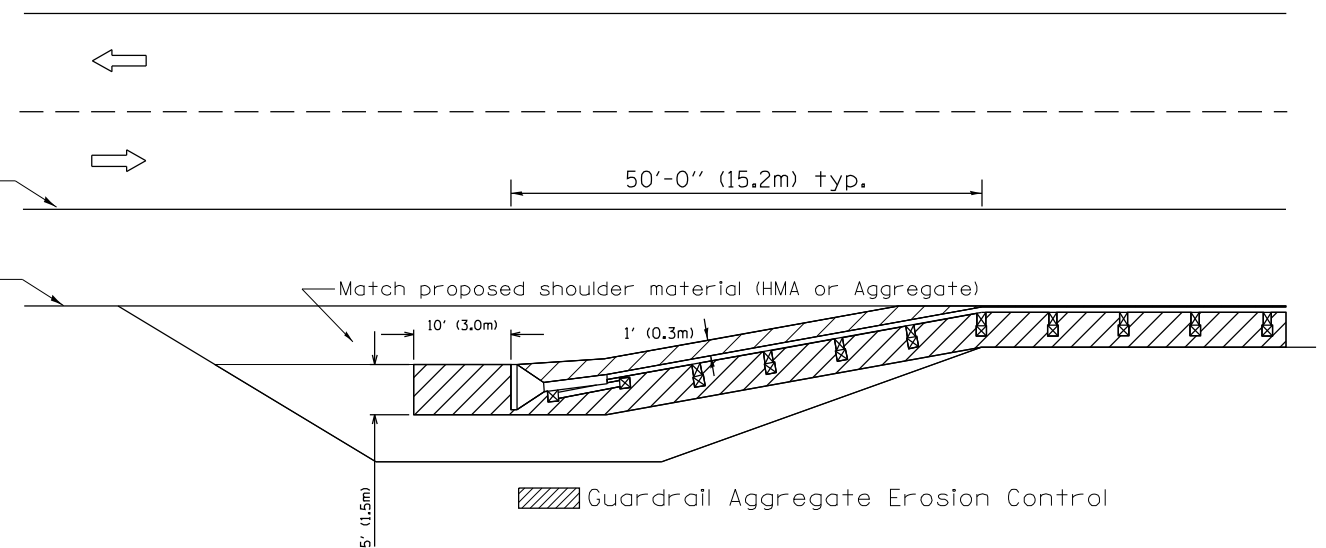
**TYPICAL SECTION WITH COMBINATION CONCRETE CURB & GUTTER**



**TYPICAL SECTION WITHOUT EROSION CONTROL CURB**

**GENERAL NOTES: GUARDRAIL AGGREGATE EROSION CONTROL**

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(300) 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.



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

03-07-11	ADDED DETAIL SHOWING PLAN VIEW	R.D.	5-30-18	CHANGE B CURB TO CC&G	R.D.
08-10-12	REVISED CURB "B" AND AGGREGATE	R.D.	07-16-19	SPELLING CORRECTIONS	R.D.
07-15-15	ADDRESSED SHOULDER INLET CURB	R.D.			
01-26-17	REVISED	R.D.			

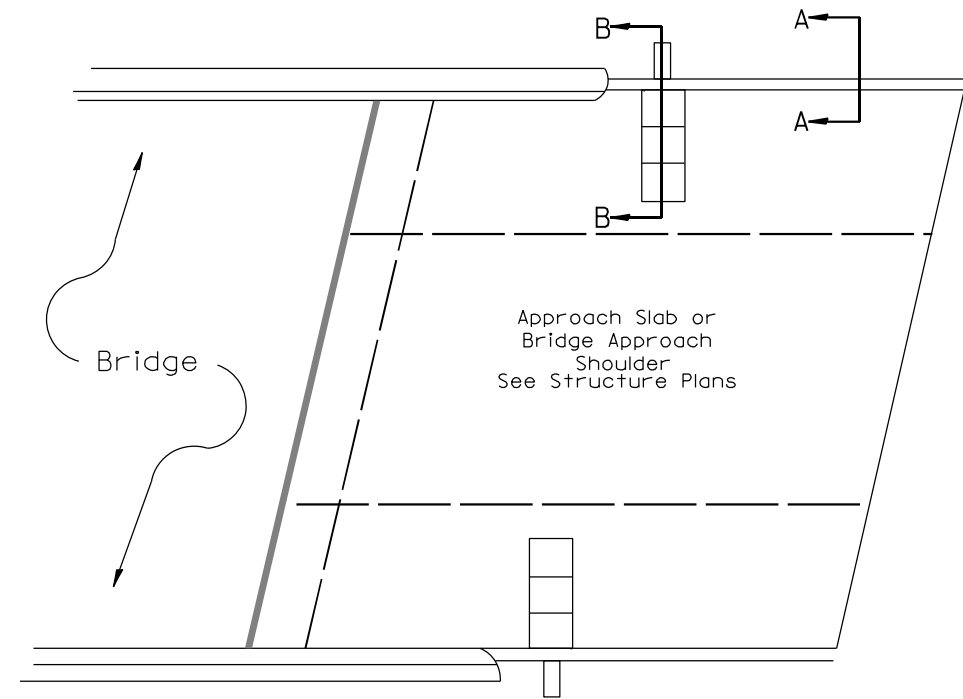
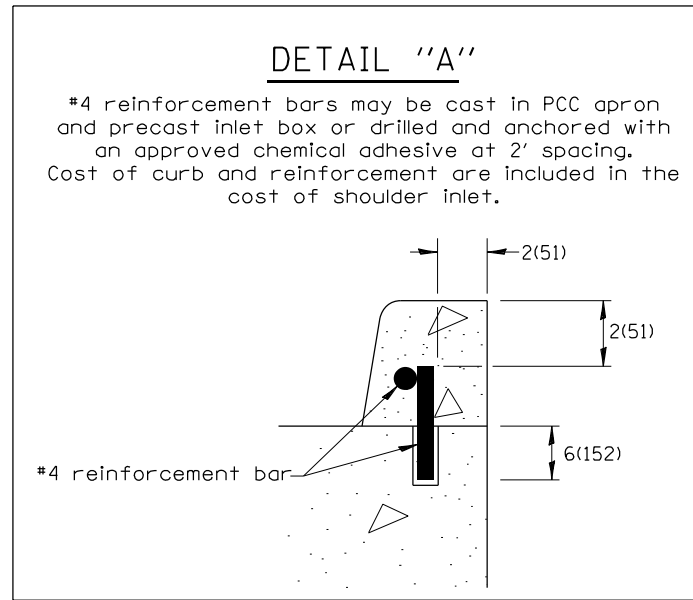
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

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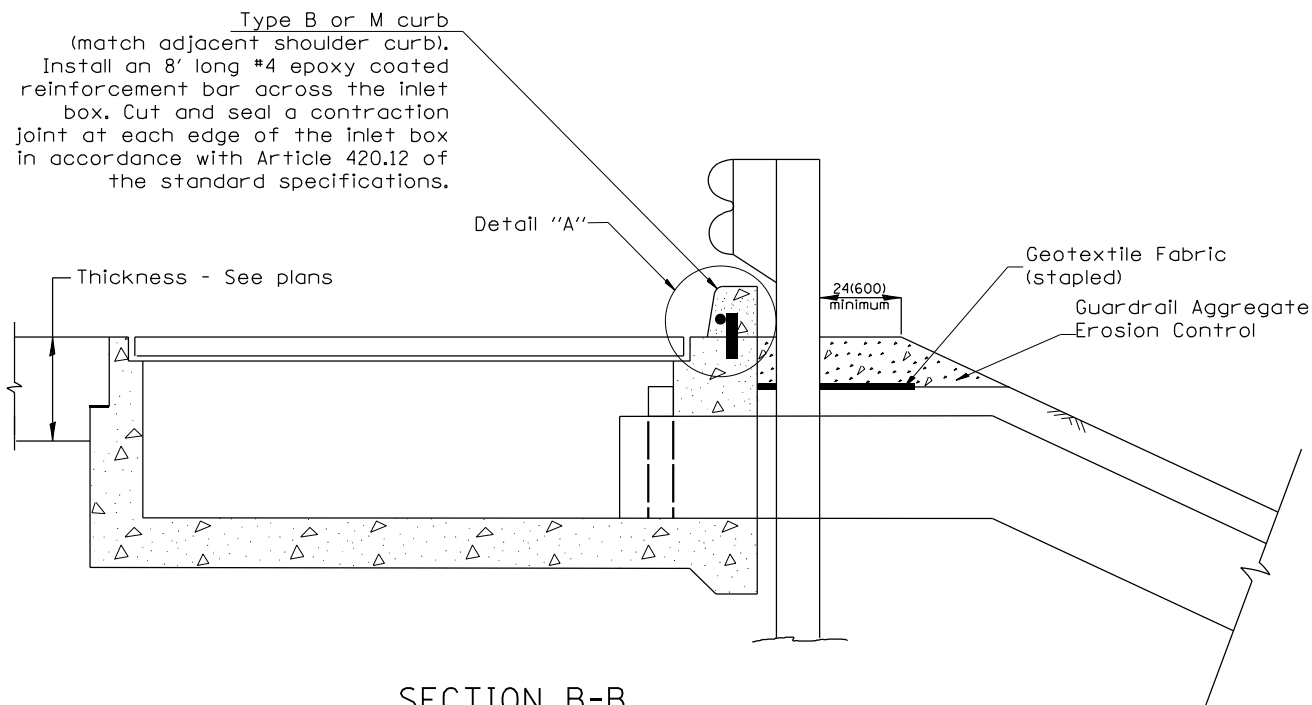
**GUARDRAIL EROSION CONTROL TREATMENTS**

SHT. 1 OF 2  
CADD STD. 630101-D4

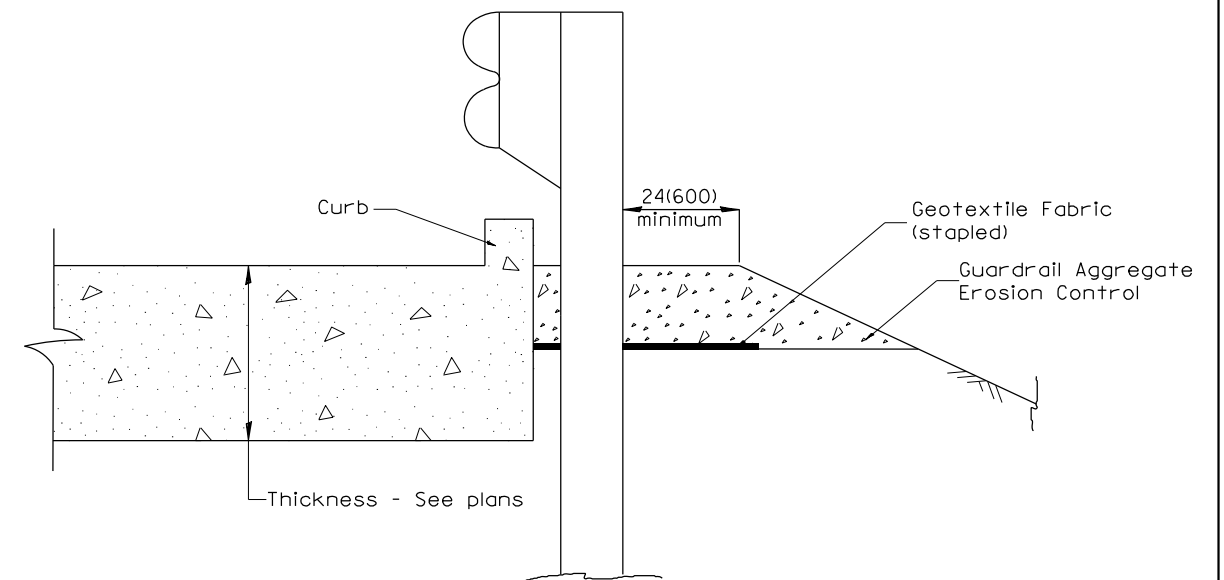
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
522	6B-2-BR:(6B-3-BR)BJR BRR,BDR	HENDERSON	39	36
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 68G41	



**PLAN VIEW**  
**APPROACH SLAB OR SHOULDER PLACEMENT**



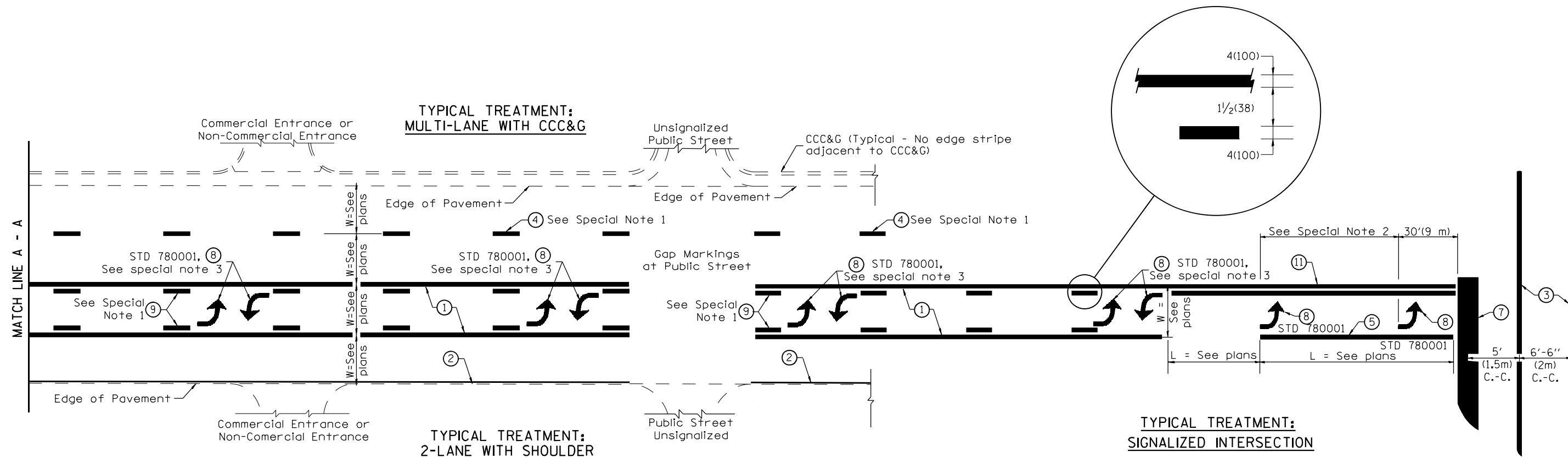
**SECTION B-B**  
**TYPICAL SECTION AT INLETS**  
**TYPE E, F & G (HIGHWAY STANDARD 610001)**



**SECTION A-A**  
**TYPICAL SECTION WITH BRIDGE APPROACH CURB**

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

<b>STATE OF ILLINOIS</b>				<b>GUARDRAIL EROSION CONTROL TREATMENTS</b>				TOTAL SHEETS	SHEET NO.
<b>DEPARTMENT OF TRANSPORTATION</b>				NOT TO SCALE				39	37
				SHT. 2 OF 2				CONTRACT NO. 68G41	
				CADD STD. 630101-D4				ILLINOIS FED. AID PROJECT	



**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) (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 (See Std. 780001 and Special Notes 2 & 3)
- ⑨ 4(100) Skip-Dash (Yellow) (See Special Note 1)
- ⑩ 12(300) Diagonal (Yellow) (See Table A) (See Table A)
- ⑪ 4(100) Double Solid (Yellow) (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)

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.			

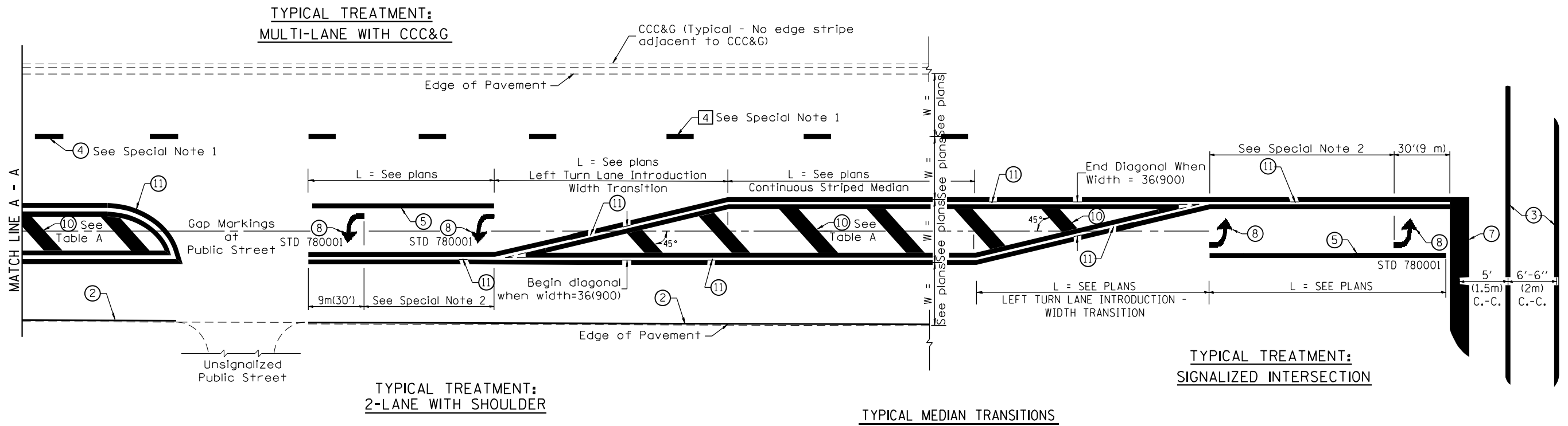
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

NOT TO SCALE

**TYPICAL PAVEMENT MARKINGS**

SHT. 1 OF 2  
CADD STD. 780001-D4

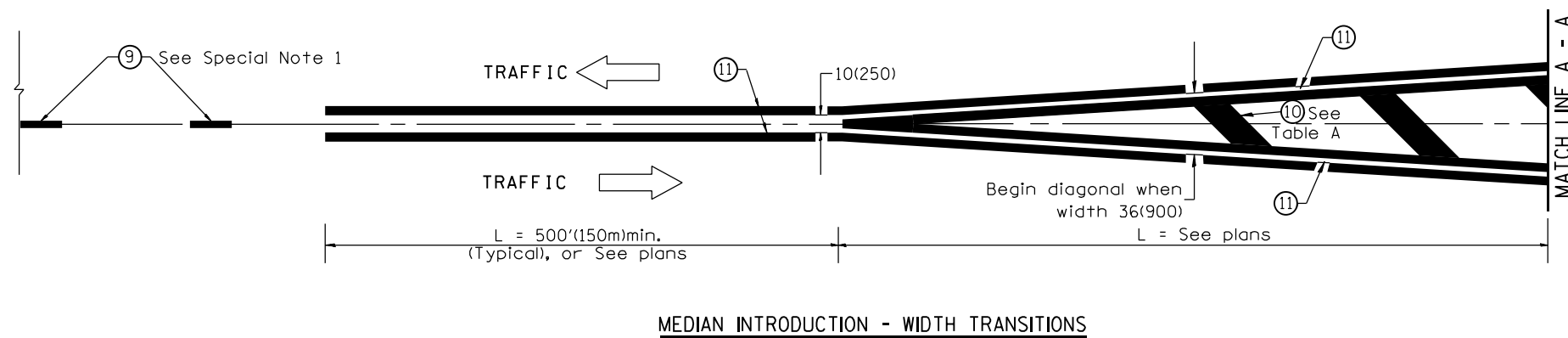
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
522	6B-2-BR:(6B-3-BR)BJR BRR,BDR	HENDERSON	39	38
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 68G41	



**FLUSH PAVED MEDIAN: RESTRICTED LEFT TURN LANE**

**TABLE A**  
RECOMMENDED SPACING BETWEEN DIAGONAL LINES

SPEED LIMIT RANGE	INTERSECTION CHANNELIZATION (Includes Width Transitions for Median and Left Turn Lane Introductions)	
	CONTINUOUS	
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)



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