08-01-2025 LETTING ITEM 030 FOR INDEX OF SHEETS, SEE SHEET NO. 2

HIGHWAY STANDARDS

STANDARD SYMBOLS, ABBREVIATIONS, AND PATTERNS DECIMAL OF AN INCH AND OF A FOOT

482001-02 HMA SHOULDER ADJACENT TO FLEXIBLE PAVEMENT 482006-03 HMA SHOULDER ADJACENT TO RIGID PAVEMENT

483001-06 PCC SHOULDER 630001-13

STEEL PLATE BEAM GUARDRAIL SHOULDER WIDENING FOR TYPE 1 (SPECIAL) GUARDRAIL TERMINALS 630301-09

TRAFFIC BARRIER TERMINAL, TYPE 6 631031-18

OFF-RD OPERATIONS 2L, 2W, 15' TO 24" FROM PAVEMENT EDGE 701006-05 701011-04

OFF-RD MOVING OPERATIONS 2L, ZW, DAY ONLY

701201-05 LANE CLOSURE, 2L, 2W, DAY ONLY, FOR SPEEDS GREATER THAN OR EQUAL TO 45

0

0

701301-04 LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS 701306-04

LANE CLOSURE, 2L, 2W, SLOW MOVING OPERATIONS DAY ONLY, FOR SPEEDS

GREATER THAN OR EQUAL TO 45 MPH

701321-19 LANE CLOSURE, 2L, 2W, BRIDGE REPAIR WITH BARRIER 701326-04

LANE CLOSURE, 2L, 2W, PAVEMENT WIDENING, FOR SPEEDS GREATER THAN OR

EQUAL TO 45 MPH 701901-10

TRAFFIC CONTROL DEVICES 704001-08 TEMPORARY CONCRETE BARRIER

780001-05 TYPICAL PAVEMENT MARKINGS

TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS 781001-04

GUARDRAIL AND BARRIER WALL REFLECTOR MOUNTING DETAILS 782006-01

DISTRICT 4 DETAILS

630101

BUTT JOINTS

GUARDRAIL EROSION CONTROL TREATMENTS

780001 TYPICAL PAVEMENT MARKINGS

TRAFFIC DATA

IL-94 OVER JINKS HOLLOW CREEK 2023 ADT

3.13%

SN 036-0043 IL-94 OVER HENDERSON CREEK

2023 ADT

MU% 10.18% SU% 5.45%

POSTED SPEED LIMIT

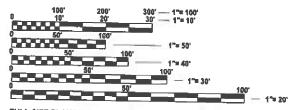
POSTED SPEED LIMIT

IL-94 OVER BNSF, SOUTHERN HENDERSON CREEK, AND ARTHUR STREET

2023 ADT

5.26% \$U% 7.37%

POSTED SPEED LIMIT



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

0

PROJECT ENGINEER DAVID BROVIAK (309)671-3493 PROJECT MANAGER ELIAS ELDERZI (309)671-3482

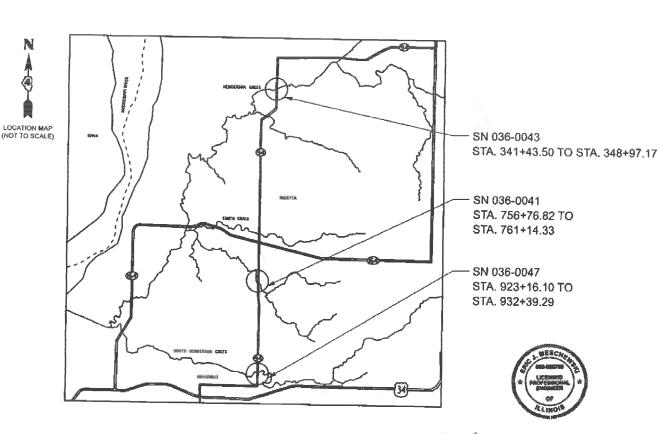
CATALOG NO. 036505-00D CONTRACT NO. 68J12

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

PROPOSED HIGHWAY PLANS

FAS ROUTE 1412 (IL 94) SECTION [106BC-1;108(C,(VB,VC)NRS)]BRR PROJECT STP-EMF4(038) **IDOT D4 BRIDGE PRESERVATION HENDERSON COUNTY**

C-94-058-24



GROSS LENGTH = 2,111.37 FT. = 0.400 MILE NET LENGTH = 2,111,37 FT. = 0.400 MILE

ERIC J. MESCHEWSKI ILLINOIS P.E. 062-065709 **EXPIRES 11/30/2025** SIGNATURE AND SEAL APPLY TO ALL SHEETS

5/2/2025

DATE

EXCEPT AS NOTED BELOW: SHEETS 34-73

[1068C-1;108(C,(VB,VC)NRS))BRR HENDERSON 81 ILLINOIS CONTRACT NO. 68J12

D-94-036-24



THE WORK TO BE PERFORMED UNDER THIS CONTRACT CONSISTS OF BRIDGE DECK MICROSILICA CONCRETE OVERLAY, BRIDGE JOINT REPLACEMENT, HMA (MIX "D") BUTT JOINT, MINOR RESURFACING, TRAFFIC CONTROL, PAVEMENT MARKING; AND ALL INCIDENTAL AND COLLATERAL WORK NECESSARY TO COMPLETE THE PROJECT.

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

> PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

INDEX OF SHEETS

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2	INDEX OF SHEETS, LIST OF HWY. STANDARDS, AND GEN. NOTES
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13 - 15	PROPOSED TYPICAL SECTIONS
16 - 18	SCHEDULES OF QUANTITIES
19 - 21	REMOVAL PLANS
22 - 24	PROPOSED PLANS
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26	BUTT JOINT DETAILS
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75 - 81	IDOT DISTRICT 4 STANDARD DRAWINGS

PC:204 00

204.00

EFFECTIVE JUNE 1, 1999

REVISED NOVEMBER 1, 2020

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.

GENERAL NOTES

- BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL "J.U.L.I.E." AT 1-800-892-0123
 FOR FIELD LOCATIONS OF BURIED ELECTRIC, TELEPHONE, AND GAS FACILITIES. 48 HOURS
 NOTIFICATION IS REQUIRED.
- 2. THE MATERIAL USED FOR CONSTRUCTION OF PERMANENT AGGREGATE DRIVEWAYS SHALL BE GRAVEL OR CRUSHED STONE, AS DIRECTED BY THE ENGINEER, TO REPLACE IN KIND THE EXISTING AGGREGATE DRIVEWAYS. NO ADDITIONAL COMPENSATION SHALL BE PROVIDED FOR THIS REQUIREMENT, BUT SHALL BE CONSIDERED AS INCLUDED IN THE COST OF THE PAY ITEM FOR THE AGGREGATE AS SPECIFIED ON THE PLANS.
- 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.
- BUTT JOINTS SHALL NOT BE MILLED MORE THAN THREE (3) DAYS PRIOR TO PLACEMENT OF THE HMA SURFACE COURSE.
- 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.
- THE RESIDENT ENGINEER SHALL CONTACT OPERATIONS TO VERIFY THE LOCATION OF NO PASSING ZONES PRIOR TO PLACEMENT OF CENTERLINE PAVEMENT MARKINGS.
- CONTINUOUS PAVING OPERATIONS ON THE MAIN ROADWAY SHALL BE MAINTANED AT ALL TIMES
 DURING THE CONSTRUCTION OF THE HOT-MIX ASPHALT SURFACE. NO INTERUPTIONS FOR SIDE
 ROADS, ENTRANCES, TURN LANES, ETC. WILL BE ALLOWED.
- 8. 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.
- THE ENGINEER SHALL DETERMINE ANY PROFILE ADJUSTMENTS REQUIRED ON THE APPROACH PAVEMENTS AND APPROACH ROADWAYS TO ADDRESS SETTLED APPROACH PAVEMENT. ESTIMATE BUTT JOINT AND HMA OVERLAY LIMITS ARE PROVIDED IN THE PLANS.
- 10. ALL DAMAGE TO EXISTING PAVEMENT MARKINGS OR RAISED REFLECTIVE PAVEMENT MARKERS OUTSIDE OF STAGING AREA OR REMOVAL LINES SHOWN ON PLANS SHALL BE REPLACED AT NO COST TO THE DEPARTMENT
- I. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND CONDITIONS EXISTING IN THE FIELD PRIOR TO CONSTRUCTION AND ORDERING OF MATERIALS.
- THE RESIDENT ENGINEER SHALL VERIFY THE LOCATIONS OF ALL EXISTING PAVEMENT MARKINGS, PAVEMENT PATCHING, OR DRAINAGE ADJUSTMENT PRIOR TO MILLING OR DESCRIPTION.
- THE CONTRACTOR SHALL BE REQUIRED TO PROVIDE ACCESS TO ABUTTING PROPERTY AT ALL
 TIMES DURING THE CONSTRUCTION OF THIS PROJECT.
- 4. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS FOR THE PROTECTION OF EXISTING PLANT MATERIAL FOR WHICH THE CONTRACT DOES NOT PROVIDE REMOVAL. THE PROTECTION OF EXISTING PLANT MATERIAL AND THE REPAIR OF REPLACEMENT OF EXISTING PLANT MATERIAL DAMAGED BY THE CONTRACTOR SHALL BE DONE IN ACCORDANCE WITH SECTION 201 OF THE STANDARD SPECIFICATIONS.
- 5. THE RESIDENT ENGINEER SHALL CONTACT THE IDOT AREA TRAFFIC ENGINEER A MINIMUM OF TWO (2) WEEKS PRIOR TO THE PLACEMENT OF PERMANENT PAVEMENT.
- THE CONTRACTOR SHALL USE CARE IN REMOVING OR EXCAVATING NEAR ALL EXISTING ITEMS WHICH SHALL REMAIN. ANY DAMAGE DONE TO EXISTING ITEMS BY THE CONTRACTOR SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.
- 17. GRATES AND DRAINAGE STRUCTURES ON SHOULDERS SHALL BE SECURED BEFORE TRAFFIC IS SHIFTED ONTO THEM

TEMPORARY TRAFFIC SIGNAL NOTES

- TRAFFIC CONTROL SHALL BE IN ACCORDANCE WITH STANDARD 701321 EXCEPT WHEN MODIFIED ON THESE PLAN SHEETS.
- 2. THE CONTRACTOR SHALL INSTALL EITHER DETECTOR LOOPS OR MICROWAVE DETECTORS FOR USE WITH THE TEMPRARY TRAFFIC SIGNALS IN ACCORDANCE WITH HIGHWAY STANDRAD 701321.
- 3. THE ENGINEER OF TRAFFIC SHALL APPROVE ALL TIMING PARAMETERS.
- 4. THE CONTRACTOR SHALL CONTACT TONY BRIDSON, DISTRICT 4 TRAFFIC SIGNAL TECHNICIAN, AT (309) 672-4464, FORTY-EIGHT (48) HOURS PRIOR TO SIGNAL TURN-ON.
- 5. ALL TRAFFIC SIGNAL SECTIONS SHALL HAVE 12" DIAMETER LED LENSES.
- 6. THE TEMPORARY TRAFFIC SIGNAL HEADS SHALL BE PLACED AT THE LOCATIONS INDICATED ON THE PLAN SHEETS OR AS DIRECTED BY THE ENGINEER.
- 7. THE TEMPORARY TRAFFIC SIGNAL INSTALLATION SHALL CONFORM TO ALL MUTCD STANDARDS.
- A MINIMUM OF 2 SIGNAL HEADS ARE REQUIRED PER APPROACH.
- ALL SIGNAL HEADS SHALL BE EQUIPPED WITH REFLECTORIZED BACKPLATES
- 10. ALL LABOR, EQUIPMENT, AND MATERIALS REQUIRED TO COMPLY WITH THESE REQUIREMENTS AND PLAN SHEET DETAILS SHALL BE INCLUDED IN THE CONTRACT BID PRICE FOR THE TEMPORARY BRIDGE SIGNAL INSTALLATION THERE WILL BE NO ADDITIONAL COMPENSATION

MAINTENANCE OF TRAFFIC NOTES

- THE MAINTENANCE OF TRAFFIC CONTROL (MOT) PLANS SHALL SERVE AS A GUIDE FOR SAFE DIVERSION OF TRAFFIC DURING THE EXECUTION OF THIS CONTRACT. HOWEVER, THE CONTRACTOR MAY MODIFY THE MOT PLANS TO MEET CONSTRUCTION NEEDS, BUT NOT AT THE EXPENSE OF PUBLIC SAFETY OR CONVENIENCE. ANY CHANGES TO THE MOT PLANS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL.
- 2. THE ENGINEER SHALL BE INFORMED 48 HOURS IN ADVANCE OF ANY PROPOSED CHANGE TO THE MOT PLANS.
- ALL EXISTING PAVEMENT MARKINGS IN CONFLICT WITH THE MOT PAVEMENT MARKINGS SHALL BE REMOVED. ALL TEMPORARY PAVEMENT MARKINGS WHICH CONFLICT WITH THE NEXT STAGE SHALL BE REMOVED. ALL TEMPORARY PAVEMENT MARKINGS SHALL BE REMOVED BY COMPLETION OF THE PROJECT.
- ALL TRAFFIC CONTROL DEVICES USED FOR MOT, AS DETAILED IN THE PLANS OR HIGHWAY STANDARDS SHALL BE REFLECTORIZED PRIOR TO INSTALLATION AND CLEANED AS SPECIFIED IN THE MOT SPECIAL PROVISIONS OR AS DIRECTED BY THE ENGINEER.
- 5. ALL EXISTING SIGNS WITHIN MOT LIMITS WHICH ARE OBSCURED BY OR CONFLICT WITH CONSTRUCTION OPERATIONS AND MOT, SHALL BE COVERED OR REMOVED BY THE CONTRACTOR UNLESS SPECIFIED IN THE PLANS OR WHEN DIRECTED BY THE ENGINEER. THIS WORK SHALL BE IN ACCORDANCE WITH ARTICLE 107.25 OF THE IDOT STANDARD SPECIFICATIONS.
- 6. A FULL-DEPTH SAW CUT SHALL BE REQUIRED BETWEEN PAVEMENT, CURB, AND/OR GUTTER TO REMAIN AND PAVEMENT, CURB AND/OR GUTTER TO BE REMOVED PRIOR TO BEGINNING OF REMOVAL WORK. COST TO BE INCLUDED WITH APPLICABLE REMOVAL ITEMS.
- 7. THE PAY ITEM "BARRIER WALL REFLECTORS, TYPE C" IS INTENDED SOLELY TO BE USED FOR REFLECTOR APPLICATIONS ON PERMANENT AND EXISTING CONCRETE BARRIER AND IS NOT TO BE USED FOR TEMPORARY CONCRETE BARRIER WHERE THE TYPE C REFLECTOR IS CONSIDERED INCLUDED IN THE COST OF THE TEMPORARY CONCRETE BARRIER PER HIGHWAY STANDARD 704001.
- DUE TO PROPOSED TEMPORARY WIDTH RESTRICTIONS, THE CONTRACTOR MUST CONTACT THE IDOT D4 TRAFFIC CONTROL SUPERVISOR 21 DAYS IN ADVANCE OF BEGINNING WORK.

JOB-SPECIFIC NOTES

 ALL DAMAGE DUE TO THE CONTRACTOR OPERATION TO PAVEMENT AND RPM'S OUTSIDE THE REMOVAL LIMITS SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.

POLYMERIZED BITUMINOUS MATERIALS (TACK COAT) RATES

SURFACE TYPE	RESIDUAL RATE (POUND/SQ FT)
MILLED (HMA OR PCC)	0.08
EXISTING PAVEMENT	0.08
FOG COAT (BETWEEN LIFTS)	0.08

TO STA N/A



USER NAME = 2189	DESIGNED -	REVISED -	Γ
	DRAWN -	REVISED -	ı
	CHECKED -	REVISED -	ı
PLOT DATE = 5/8/2025	DATE -	REVISED -	ı

SCALE: N/A SHEET 1 OF 1 SHEETS STA N/A

s.	SECTI	ION		COUNTY	TOTAL	SHEE NO.
12	[106BC-1;108(C,(VB,VC)NRS)]BRR		S)]BRR	HENDERSON	81	2
			CONTRACT	NO. 68	J12	
ILLINOIS FED. AII				PROJECT		

HOT-MIX ASPHALT MIXTURE REQUIREMENTS

The following mixture requirements are applicable for	The following mixture requirements are applicable for this project:									
Location(s):	Mainline	Mainline	Mainline	Shoulder	Shoulder					
Mixture Use(s):	Poly Surface 1.5"	Poly Binder 1.5"	Class D Patch	Shoulders (All Lifts)	HMA Pavement Widening					
AC/PG:	PG 70-28	PG 70-28	PG 70-28	PG 58-28	PG 58-22					
Design Air Voids:	4.0% @ N=50	4.0% @ N=50	4.0% @ N=50	4.0% @ N=50	4.0% @ N=50					
Mixture Composition: (Mixture Gradation)	IL 9.5	IL 9.5	IL 19.0	IL 9.5	IL 19.0					
Friction Aggregate:	Mix D	N/A	N/A	Mix D	N/A					
Quality Management Program:	QCQA	QCQA	QCQA	QCQA	QCQA					
MTD:	No	No	No	No	No					

Note: 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 sizes for PFP and QCP mixes will be 10 00 tons, unless otherwise agreed to by the Engineer and the paving contractor.

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GR@EF
8501W. Higgins Road; Suite 280 Chicago, Minois 6063k; (773) 399-002
Chicago, Winois 60631; (773) 399-0112

USER NAME = 2189	DESIGNED -	REVISED -
	DRAWN -	REVISED -
	CHECKED -	REVISED -
PLOT DATE = 5/8/2025	DATE -	REVISED -

SCALE:

HOT-MIX ASPHALT MIXTURE						SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
REQUIREMENTS				1412	[106BC-1;108(C,(VB,VC)NRS)]BRR	HENDERSON	81	3	
REQUIREMENTS							CONTRACT	NO. 68.	J12
SHEET OF SHEETS STA. TO STA.					ILLINOIS FED. AIL	PROJECT			

2023\20230256-06\Design\CADD\Rdwy\SheetsOther\D468J12\D468J12-sht-

				CONSTRUCTION	CODE	
				80% FEDERAL	80% FEDERAL	80% FEDERAL
				20% STATE	20% STATE	20% STATE
				BRIDGE	BRIDGE	BRIDGE
CODE			TOTAL	0047	0047	0047
NO.	ITEM	UNIT	QUANTITY	S.N. 036-0041	S.N. 036-0043	S.N. 036-0047
			420000			
20200600	EXCAVATING AND GRADING EXISTING SHOULDER	UNIT	6	4	2	
28100109	STONE RIPRAP, CLASS A5	SQ YD	14	14		
28200200	FILTER FABRIC	SQ YD	14	14		
30300112	AGGREGATE SUBGRADE IMPROVEMENT 12"	SQ YD	221	159	62	
4000005		DOLINID.	0.044		740	700
40600295	POLYMERIZED BITUMINOUS MATERIALS (TACK COAT)	POUND	2,011	534	748	729
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	1,300	404	424	472
40600990	TEMPORARY RAMP	SQ YD	215	67	68	80
40603205	POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-9.5, N50	TON	101.0	28.7	32.6	39.7
40604160	POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N50	TON	124.2	33.5	54.7	36.0
44000155	HOT-MIX ASPHALT SURFACE REMOVAL, 1.5"	SQ YD	298		231	67
44000200	CURB REMOVAL	FOOT	400	60	60	70
44000300	CURB REMOVAL	FOOT	198	60	60	78
44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	82			82
44004250	PAVED SHOULDER REMOVAL	SQ YD	212	168	44	
44201833	CLASS D PATCHES, TYPE IV, 15 INCH	SQ YD	43	43		
77201000	SE 100 S 1771 C 101 10 10 10 11	5415	45	10		

CODE

.: X:\OH\2023\20230256-06\Design\CADD\Rdwy\Sheets

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8501W. Higgins Road: Suite 280
Chicago, Winois 60634 (773) 399-002

USER NAME = 2189	DESIGNED -	REVISED -
	DRAWN -	REVISED -
	CHECKED -	REVISED -
PLOT DATE = 5/20/2025	DATE -	REVISED -

STATE OF ILLINOIS						
DEPARTMENT OF TRANSPORTATION						

SUMMARY OF QUANTITIES						F.A.S. RTE	F.A.S. SECTION			COUNTY	TOTAL SHEETS	SHEET NO.	
							1412	[106BC-1;108(C,(VB,VC)NR	S)]BRR	HENDERSON	81	4
										CONTRACT	NO. 68.	J12	
SCALE:	N/A	SHEET 1	OF 6	SHEETS	STA. N/A	TO STA. N/A		ILLINOIS FED. AID PROJECT					

				80% FEDERAL	80% FEDERAL	80% FEDERAL
				20% STATE	20% STATE	20% STATE
				BRIDGE	BRIDGE	BRIDGE
CODE			TOTAL	0047	0047	0047
NO.	ITEM	UNIT	QUANTITY	S.N. 036-0041	S.N. 036-0043	S.N. 036-0047
	<u></u>	31117	457.11111			5. 555 55 77
48203029	HOT-MIX ASPHALT SHOULDERS, 8"	SQ YD	74	74		
48300300	PORTLAND CEMENT CONCRETE SHOULDERS 8"	SQ YD	132	85	47	
50102400	CONCRETE REMOVAL	CU YD	12.7		6.3	6.4
50300255	CONCRETE SUPERSTRUCTURE	CU YD	14.6		7.3	7.3
50300260	BRIDGE DECK GROOVING	SQ YD	2,745	387	1053	1305
50300300	PROTECTIVE COAT	SQ YD	3,640	466	1428	1746
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	1,960		980	980
50800515	BAR SPLICERS	EACH	24		12	12
52000110	PREFORMED JOINT STRIP SEAL	FOOT	136		68	68
59300100	CONTROLLED LOW-STRENGTH MATERIAL	CU YD	15.0	1.0	14.0	
60260100	INLET TO BE ADJUSTED	EACH	8		4	4
60600605	CONCRETE CURB, TYPE B	FOOT	198	60	60	78
60605000	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24	FOOT	82			82
63000001	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	FOOT	1,105	311	429	365

CODE

*= SPECIALTY ITEM

GRAEF

8501 W. Higgins Road; Suite 280
Chicago, Minols 60634 (773) 399-002

USER NAME = 2189	DESIGNED -	REVISED -
	DRAWN -	REVISED -
	CHECKED -	REVISED -
PLOT DATE = 5/20/2025	DATE -	REVISED -

STATE OF ILLINOIS					
DEPARTMENT OF TRANSPORTATION					

								F.A.S. SECTION				
							1412	1412 [106BC-1;108(C,(VB,VC)NRS)]BR				
										C		
SCALE:	N/A	SHEET 2	OF 6	SHEETS	STA. N/A	TO STA. N/A		ILLINOIS FE	D. AID F	PRO		

					CONCINCO		
					80% FEDERAL	80% FEDERAL	80% FEDERAL
					20% STATE	20% STATE	20% STATE
					BRIDGE	BRIDGE	BRIDGE
	CODE			TOTAL	0047	0047	0047
	NO.	ITEM	UNIT	QUANTITY	S.N. 036-0041	S.N. 036-0043	S.N. 036-0047
*	63100085	TRAFFIC BARRIER TERMINAL, TYPE 6	EACH	12	4	4	4
*	63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	10	4	4	2
*	63100169	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) FLARED	EACH	2			2
			27.011				_
	63200310	GUARDRAIL REMOVAL	FOOT	1,884	580	670	634
	67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	12.0	4.0	4.0	4.0
	67100100	MOBILIZATION	L SUM	1	0.33	0.33	0.33
	70100405	TRAFFIC CONTROL AND PROTECTION, STANDARD 701321	EACH	3	1	1	1
	70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	L SUM	1	0.33	0.33	0.33
	70100460	TRAFFIC CONTROL AND PROTECTION, STANDARD 701306	L SUM	1	0.33	0.33	0.33
	70100500	TRAFFIC CONTROL AND PROTECTION, STANDARD 701326	L SUM	1	0.33	0.33	0.33
	70106700	TEMPORARY RUMBLE STRIPS	EACH	18	6	6	6
	70103815	TRAFFIC CONTROL SURVEILLANCE	CAL DA	180.00	60.00	60.00	60.00
	70106500	TEMPORARY BRIDGE TRAFFIC SIGNALS	EACH	3	1	1	1
	70107025	CHANGEABLE MESSAGE SIGN	CAL DA	42.00	14.00	14.00	14.00

CODE

*= SPECIALTY ITEM

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8501W. Higgins Road; Suite 280 Chicago, Winois 60634; (773) 399-002

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	DRAWN -	REVISED -
	CHECKED -	REVISED -
PLOT DATE = 5/20/2025	DATE -	REVISED -

STATE OF ILLINOIS					
DEPARTMENT OF TRANSPORTATION					

	SUMMARY OF QUANTITIES				F.A.S. RTE.			COUNTY	TOTAL SHEETS	SHEET NO.		
				1412	[106BC-1;108(C,(VB,VC)NF	RS)]BRR	HENDERSON	81	6			
										CONTRACT	NO. 68.	112
	SHEET 3	OF 6	SHEETS	STA. N/A	TO STA.	N/A		ILLINOIS	FED. AID	PROJECT		

					CONCINCO		
					80% FEDERAL	80% FEDERAL	80% FEDERAL
					20% STATE	20% STATE	20% STATE
					BRIDGE	BRIDGE	BRIDGE
	CODE			TOTAL	0047	0047	0047
	NO.	ITEM	UNIT	QUANTITY	S.N. 036-0041	S.N. 036-0043	S.N. 036-0047
}		112	J	QO/WIII	SIN 000 0041	51111 555 5545	on a coc co-
	70300100	SHORT TERM PAVEMENT MARKING	FOOT	810	225	255	330
-							
İ	70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SQ FT	280	80	90	110
ļ	70000100	OHORT FERMITAVEIMENT MANAGEMENTAL	OQ 1 1	200	00	30	110
ŀ	70007400	TEMPODADY DAYEMENT MADIVING. LINE (II. TYPE IV TABE	FOOT	40.040	0.000	0.400	4.440
	70307120	TEMPORARY PAVEMENT MARKING - LINE 4" - TYPE IV TAPE	FOOT	10,840	3,000	3,400	4,440
	70307210	TEMPORARY PAVEMENT MARKING - LINE 24"- TYPE IV TAPE	FOOT	144	48	48	48
Ī							
	70400100	TEMPORARY CONCRETE BARRIER	FOOT	1,750.0	400.0	600.0	750.0
ŀ							
	70400200	 RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	1,750.0	400.0	600.0	750.0
-							
Ī	70600251	IMPACT ATTENUATORS, TEMPORARY (NON- REDIRECTIVE, NARROW), TEST LEVEL 3	EACH	6	2	2	2
				-	_	_	_
Ī	70600352	IMPACT ATTENUATORS, RELOCATE (NON- REDIRECTIVE,NARROW), TEST LEVEL 3	EACH	6	2	2	2
	70000002	INITIALITY TENOMONO, NEEDOME (NON NEDINEOTIVE, WINNOW), TEOT LEVEL O	LAGIT	Ŭ			
	72504000	TERMINAL MARKER, PIRECT ARRUSED	FACIL	40	4	4	4
•	72501000	TERMINAL MARKER - DIRECT APPLIED	EACH	12	4	4	4
:	78001110	PAINT PAVEMENT MARKING - LINE 4"	FOOT	6,290	1,960	2,400	1,930
-							
¢	78001180	PAINT PAVEMENT MARKING - LINE 24"	FOOT	15			15
İ							
¢	78200006	GUARDRAIL REFLECTORS, TYPE B	EACH	36	12	12	12
ŀ							
ļ							
:	78200011	BARRIER WALL REFLECTORS, TYPE C	EACH	66	20	20	26
ŀ							
	78300202	PAVEMENT MARKING REMOVAL - WATER BLASTING	SQ FT	2,400	800	800	800
				, . ,			
ι		ı	1	I.	I.	i	i .

CODE

*= SPECIALTY ITEM



USER NAME = 2189	DESIGNED -	REVISED -
	DRAWN -	REVISED -
	CHECKED -	REVISED -
PLOT DATE = 5/20/2025	DATE -	REVISED -

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

SUN	1MA	R۱	Y OF QU	SUMMARY OF QUANTITIES						
SHEET 4	OF	6	SHEETS	STA. N/A	TO STA. N/A					

				80% FEDERAL 20% STATE	80% FEDERAL 20% STATE	80% FEDERAL 20% STATE
				BRIDGE	BRIDGE	BRIDGE
CODE			TOTAL	0047	0047	0047
NO.	ITEM	UNIT	QUANTITY	S.N. 036-0041	S.N. 036-0043	S.N. 036-0047
X0325748	ACRYLIC COATING	SQ YD	23		16	7
X0325749	FIBER WRAP	SQ FT	143		143	
X0326444	SURFACE FILLER (SPECIAL)	GALLON	3	1	1	1
V4404400	DAVEMENT DEMOVAL (CDECIAL)	COMP	52	50		
X4404400	PAVEMENT REMOVAL (SPECIAL)	SQ YD	53	53		
X5030550	PROTECTIVE COAT (SPECIAL)	SQ YD	1,313	135	535	643
X5060700	CLEANING AND PAINTING BEARINGS	EACH	22		12	10
X5230172	DRAINAGE SCUPPERS TO BE ADJUSTED	EACH	2			2
V0220705	STEEL BLATE BEAM GUADDDAN (QUODT DADUUS)	FOOT	20			00
X6330725	STEEL PLATE BEAM GUARDRAIL (SHORT RADIUS)	FOOT	28			28
Z0001002	GUARDRAIL AGGREGATE EROSION CONTROL	TON	300.0	90.0	108.0	102.0
Z0012130	BRIDGE DECK SCARIFICATION 3/4"	SQ YD	3,596	466	1,411	1,719
Z0012162	BRIDGE DECK MICROSILICA CONCRETE OVERLAY 2 1/4"	SQ YD	3,596	466	1,411	1,719
Z0013798	CONSTRUCTION LAYOUT	L SUM	1	0.33	0.33	0.33
Z0041895	POLYMER CONCRETE	CU FT	2.9	2.9		
Z0043800	PRECAST PRESTRESSED CONCRETE I-BEAM REPAIR	SQ FT	6		6	

CODE

*= SPECIALTY ITEM



USER NAME = 2189	DESIGNED -	REVISED -
	DRAWN -	REVISED -
	CHECKED -	REVISED -
PLOT DATE = 5/20/2025	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUN	/MARY	OF QU	ANTITIES	;	F.A.S. RTE.	SEC
					1412	[106BC-1;108(C,(
SHEET 5	OF 6	SHEETS	STA. N/A	TO STA. N/A		

					CONTROCTION		T
					80% FEDERAL	80% FEDERAL	80% FEDERAL
			T	<u> </u>	20% STATE	20% STATE	20% STATE
					BRIDGE	BRIDGE	BRIDGE
	CODE			TOTAL	0047	0047	0047
	NO.	ITEM	UNIT	QUANTITY	S.N. 036-0041	S.N. 036-0043	S.N. 036-0047
	Z0048665	RAILROAD PROTECTIVE LIABILITY INSURANCE	L SUM	1			1
ø	Z0076600	TRAINEES	HOUR	1,000	1,000		
Ø	Z0076604	TRAINEES - TRAINING PROGRAM GRADUATE	HOUR	1,000	1,000		

CODE

Ø 0042

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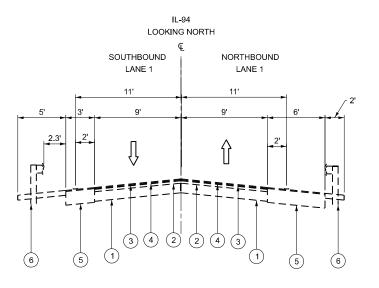
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	DRAWN -	REVISED -
	CHECKED -	REVISED -
PLOT DATE = 5/20/2025	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

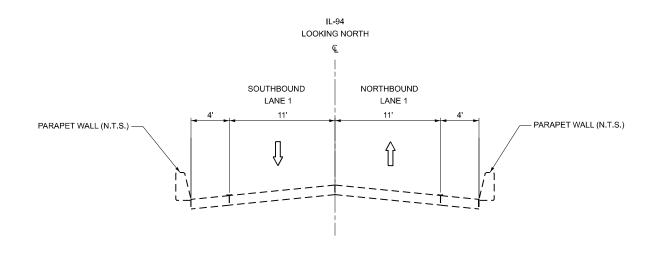
SUI	MMARY	OF QU	JANTITIES		F.A.S. RTE.	SECTION		COUNTY	TOTAL SHEETS	SHEET NO.
					1412	[106BC-1;108(C,(VB,VC)NI	RS)]BRR	HENDERSON	81	9
								CONTRACT	NO. 68	J12
SHEET 6	OF 6	SHEETS	STA. N/A	TO STA. N/A		ILLINOIS	FED. AII	PROJECT		

NOTES

 BRIDGE TYPICAL SECTION PROVIDED FOR ROADWAY REFERENCE ONLY AND IS NOT INTENDED TO BE REPRESENTATIVE OF THE STRUCTURE ITSELF.



NORTH AND SOUTH OF BRIDGE TYPICAL SECTION



BRIDGE TYPICAL SECTION SEE NOTE 1

LEGEND

- EXISTING PAVEMENT
- 2 EXISTING BITUMINOUS OVERLAY 3"
- 3 EXISTING SURFACE COURSE 1 1/4"
- 4 EXISTING LEVEL BINDER 3/4"
- 5 EXISTING 8" BASE COURSE
- 6 EXISTING AGGREGATE SHOULDER

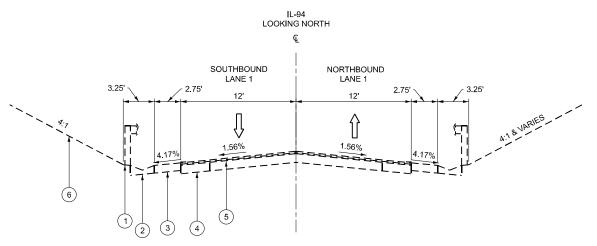
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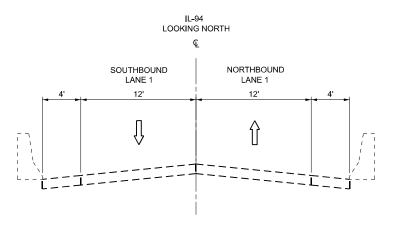
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Chicago, Minols 6063; (773) 399-002

USER NAME = 2189	DESIGNED -	REVISED -
	DRAWN -	REVISED -
	CHECKED -	REVISED -
PLOT DATE = 5/8/2025	DATE -	REVISED -

EXISTING TYPICAL SECTIONS						
SN 03	SN 036-0041 IL-94 OVER JINKS HOLLOW CREEK					
	SHEET	OF	SHEETS	STA.	TO STA.	

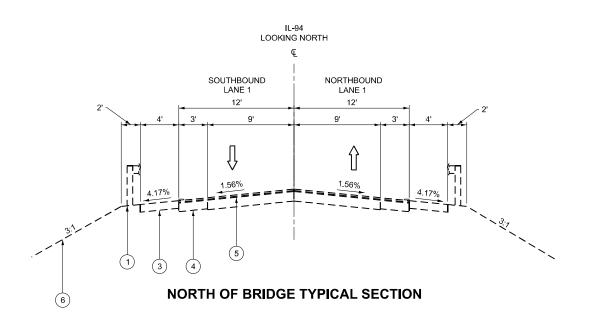
F.A.S. RTE.	SECT	ION		COUNTY	TOTAL SHEETS	SHEET NO.
1412	[106BC-1;108(C,(V	/B,VC)NR	S)]BRR	HENDERSON	81	10
				CONTRACT	NO. 68.	J12
		ILLINOIS	FED, All	D PROJECT		





BRIDGE TYPICAL SECTION

SEE NOTE 1



NOTES

I. BRIDGE TYPICAL SECTION PROVIDED FOR ROADWAY REFERENCE ONLY AND IS NOT INTENDED TO BE REPRESENTATIVE OF THE STRUCTURE ITSELF.

LEGEND

(1) GUARDRA

(2) CONCRETE GUTTER, TYPE "B", MODIFIED

(3) BITUMINOUS SHOULDER, 8"

4 BITUMINOUS CONCRETE BASE COURSE, 9"

(5) BITUMINOUS OVERLAY, SURFACE COURSE MIX C, CL. I, TY. 3, 1 1/2" AND LEVELING BINDER TYPE 3, 1"

6 EXISTING EARTH EMBANKMENT

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 USER NAME
 = 2189
 DESIGNED
 REVISED

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 REVISED

 CHECKED
 REVISED

 PLOT DATE
 = 5/8/2025
 DATE
 REVISED

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

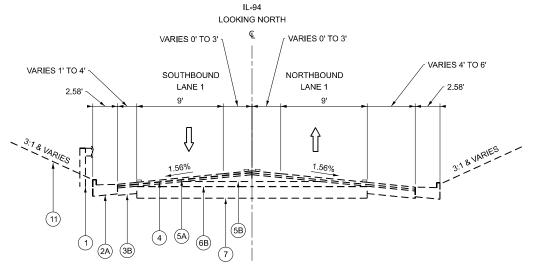
EXISTING TYPICAL SECTIONS
SN 036-0043 IL-94 OVER HENDERSON CREEK

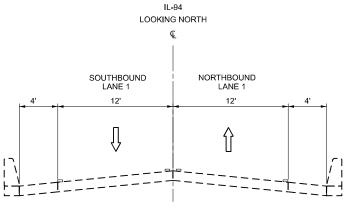
SHEET OF SHEETS STA. TO STA.

 F.A.S. RTE.
 SECTION
 COUNTY
 TOTAL SHEETS
 SHEET NO.

 1412
 [106BC-1;108(C,(VB,VC)NRS)]BRR
 HENDERSON
 81
 11

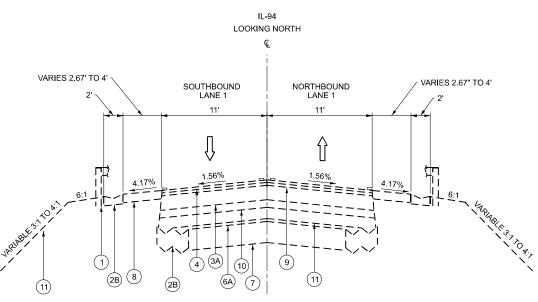
 CONTRACT NO. 68J12





BRIDGE TYPICAL SECTION

SEE NOTE 1



NORTH OF BRIDGE TYPICAL SECTION

NOTES

 BRIDGE TYPICAL SECTION PROVIDED FOR ROADWAY REFERENCE ONLY AND IS NOT INTENDED TO BE REPRESENTATIVE OF THE STRUCTURE ITSELF.

LEGEND

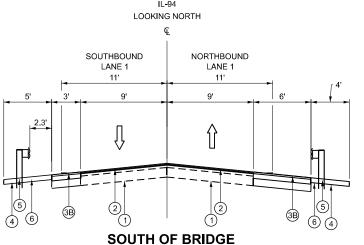
- 1 GUARDRAIL
- (2A) CONCRETE CURB AND GUTTER
- (2B) CONCRETE GUTTER, TY. B
- 3A) BITUMINOUS BASE COURSE, 8"
- (3B) BITUMINOUS BASE COURSE, 9"
- BITUMINOUS SURFACE COURSE CLASS I, MIX C, TY. 2 (1 1/2")
- (5A) LEVELING BINDER TY. 2 (1")
- 5B LEVELING BINDER TY. 2 (VARIES 0" TO 2")
- (6A) BITUMINOUS CONCRETE OVERLAY (3")
- (6B) BITUMINOUS CONCRETE OVERLAY (3" AND VARIES)
- 7 PCC PAVEMENT 9"-6"-9"
- 8 HMA SHOULDER
- 9 BITUMINOUS CONCRETE BINDER COURSE, TY. 2 (1 1/2")
- SUB-BASE GRANULAR MATERIAL, TY. A, (4" OR VAR 6" TO 16")
- (11) EARTH EMBANKMENT OR SUB-BASE GRANULAR MATERIAL, TY. A

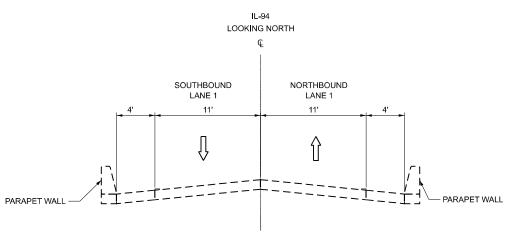
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ı	CDSEE
ı	GRØEF
ı	8501 W. Higgins Road; Suite 280
1	Chicago, Minois 60634 (773) 399-0112

USER NAME = 2189	DESIGNED -	REVISED -
	DRAWN -	REVISED -
	CHECKED -	REVISED -
PLOT DATE = 5/8/2025	DATE -	REVISED -

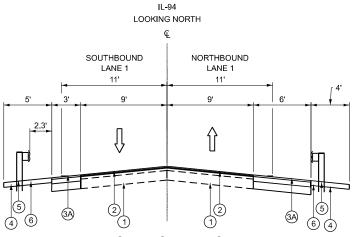
			SECTIONS ER BNSF RR
SHEET	OF	SHEETS	STA.

TO STA.





BRIDGE TYPICAL SECTION



NORTH OF BRIDGE TYPICAL SECTION

NOTES

- SEE ROADWAY PLANS FOR LOCATIONS FOR NEW GUARDRAIL AND SHOULDERS.
- 2. SEE BUTT JOINT SHEETS FOR BUTT JOINT CONSTRUCTION DETAILS.
- 3. MATCH EXISTING LANE CROSS SLOPE.

LEGEND

- 1 EXISTING PAVEMENT
- POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N50 (1½")
 POLYMERIZED HOT-MIX ASPHALT BINDER CORSE, IL-9.5, N50 (1½")
 HOT-MIX ASPHALT SURFACE REMOVAL BUTT JOINT
 POLYMERIZED BITUMINUOUS MATERIALS (TACK COAT)
- (3A) EXCAVATING AND GRADING EXISTING SHOULDER HOT-MIX ASPHALT SHOULDERS, 8"
 AGGREGATE SUBGRADE IMPROVEMENT 12"
- 3B EXCAVATING AND GRADING EXISTING SHOULDER PORTLAND CEMENT CONCRETE SHOULDERS, 8" AGGREGATE SUBGRADE IMPROVEMENT 12"
- (4) GUARDRAIL AGGREGATE EROSION CONTROL
- 5 STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS
- PROPOSED AGGREGATE SHOULDER

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Chicago, minois 60634 (773) 399-002	

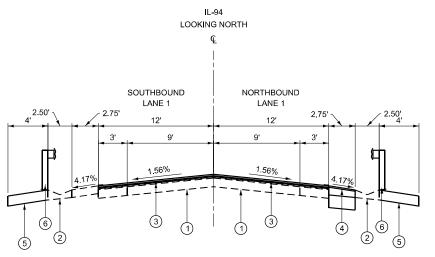
USER NAME = 2189	DESIGNED -	REVISED -	l
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PLOT DATE = 5/8/2025	DATE -	REVISED -	

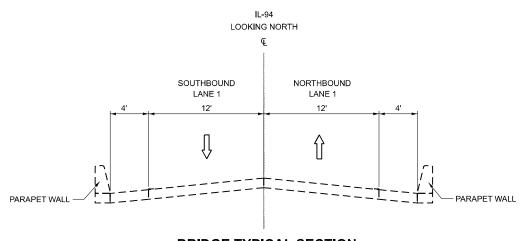
SN 03			TYPICAI 'ER JINI		IONS LOW CREEK
	SHEET	OF	SHEETS	STA.	TO STA.

SCALE:

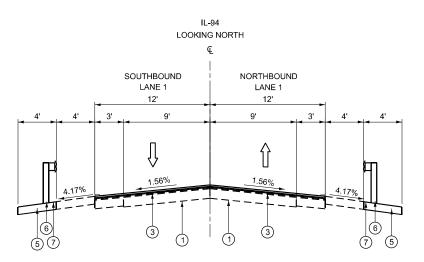
F.A.S. SECTION		COUNTY	TOTAL SHEETS	SHEET NO.
1412 [106BC-1;108(C,(VB,VC)NRS)]BRR		HENDERSON	81	13
·		CONTRACT	NO. 68.	J12
	ILLINOIS FED. AI	D PROJECT		

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BRIDGE TYPICAL SECTION



NORTH OF BRIDGE TYPICAL SECTION

NOTES

- 1. SEE ROADWAY PLANS FOR LOCATIONS FOR NEW GUARDRAIL AND SHOULDERS.
- 2. SEE BUTT JOINT SHEETS FOR BUTT JOINT CONSTRUCTION DETAILS.

LEGEND

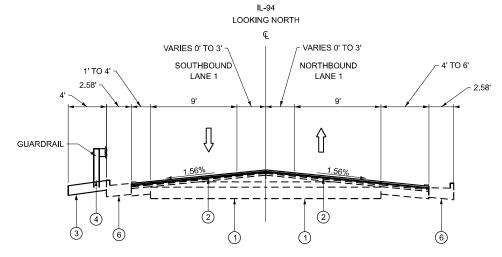
- EXISTING PAVEMENT
- ② EXISTING CONCRETE GUTTER, TYPE B (SPECIAL)
- (3) POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N50 (1½")
 POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-9.5, N50 (1½")
 HOT-MIX ASPHALT SURFACE REMOVAL BUTT JOINT
 POLYMERIZED BITUMINUOUS MATERIALS (TACK COAT)
- (4) EXCAVATING AND GRADING EXISTING SHOULDER PORTLAND CEMENT CONCRETE SHOULDERS, 8" AGGREGATE SUBGRADE IMPROVEMENT 12"
- 5 GUARDRAIL AGGREGATE EROSION CONTROL
- (6) STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS
- 7 PROPOSED AGGREGATE SHOULDER

GR@EF	
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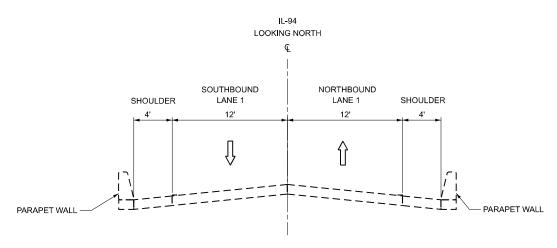
USER NAME = 2189	DESIGNED -	REVISED -
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PLOT DATE = 5/8/2025	DATE -	REVISED -

SN 0		POSED IL-94 C			TONS SON CREEK
	SHEET	OF	SHEETS	STA.	TO STA.

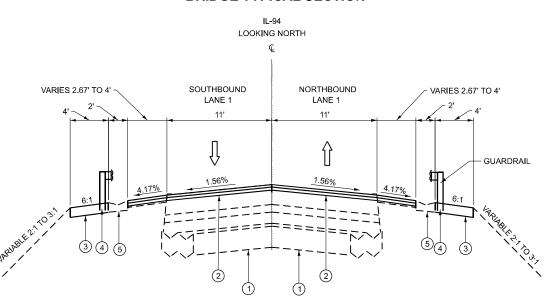
F.A.S. RTE.	SECTION		COUNTY	TOTAL SHEETS	SHEET NO.
1412 [106BC-1;108(C,(VB,VC)NRS)]BRR		HENDERSON	81	14	
		CONTRACT	NO. 68.	J12	
	ILLINOIS FE	D. AII	PROJECT		



SOUTH OF BRIDGE CROSS SECTION



BRIDGE TYPICAL SECTION



NORTH OF BRIDGE CROSS SECTION

NOTES

- 1. SEE ROADWAY PLANS FOR LOCATIONS FOR NEW GUARDRAIL AND SHOULDERS.
- 2. SEE BUTT JOINT SHEETS FOR BUTT JOINT CONSTRUCTION DETAILS.

LEGEND

- EXISTING PAVEMENT
- 2 POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N50 (1½")
 POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-9.5, N50 (1½")
 HOT-MIX ASPHALT SURFACE REMOVAL BUTT JOINT
 POLYMERIZED BITUMINUOUS MATERIALS (TACK COAT)
- 3 GUARDRAIL AGGREGATE EROSION CONTROL
- 4 STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS
- 5 EXISTING CONCRETE GUTTER. TY. B
- 6 EXISTING CONCRETE CURB AND GUTTER

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USER NAME = 2189	DESIGNED -	REVISED -
	DRAWN -	REVISED -
	CHECKED -	REVISED -
PLOT DATE = 5/8/2025	DATE -	REVISED -

			L SECTI ER BNS	
SHEET	OF	SHEETS	STA.	TO STA.

F.A.S. RTE.	SECTION		COUNTY	TOTAL SHEETS	SHEE NO.
1412	[106BC-1;108(C,(VB,VC)NR	S)]BRR	HENDERSON	81	15
		CONTRACT	NO. 68.	J12	
	ILLINOIS	PROJECT			

PAVING SCHEDULE

	EXCAVATING AND GRADING EXISTING SHOULDER	AGGREGATE SUBGRADE IMPROVEMENT, 12"	POLYMERIZED BITUMINOUS MATERIAL (TACK COAT)	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	POLYMERIZED HOT- MIX ASPHALT BINDER COURSE, IL- 9.5, N50	POLYMERIZED HOT- MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N50	HOT-MIX ASPHALT SURFACE REMOVAL, 1.5"	CLASS D PATCHES, TYPE IV, 15 INCH	HOT-MIX ASPHALT SHOULDERS, 8"	PORTLAND CEMENT CONCRETE SHOULDERS, 8"	PAVEMENT REMOVAL (SPECIAL)
	20200600	30300112	40600295	40600982	40603205	40604160	44000155	44201833	48203029	48300300	X4404400
LOCATION	(UNIT)	(SQ YD)	(POUND)	(SQ YD)	(TON)	(TON)	(SQ YD)	(SQ YD)	(SQ YD)	(SQ YD)	(SQ YD)
SN 036-0041		, , , ,	,		` '	` '					,/
NW QUADRANT	0.83	37.0	133	102.5	7.2	8.4			36.9		13.3
NE QUADRANT		37.0	133	102.5	1.2	8.4			36.9		13.3
SWQUADRANT		48.0	134	99.5	7.2	8.4			00.0	48	13.3
SE QUADRANT	0.84	37.0	134	99.5	7.2	8.4				37	13.3
SUBTOTAL	4	159	534	404	28.7	33.5	0	0	74	85	53
SN 036-0043											
NW QUADRANT			318	121	8.5	28.7	231				
NE QUADRANT			145	107	8.5	8.5	201				
SWQUADRANI			142	98	7.9	8.8					_
SE QUADRANT	2.00	62.0	142	98	7.9	8.8				47	
SUBTOTAL	2	62	748	424	32.6	54.7	231	0	0	47	0
SN 036-0047	_								-		
NW QUADRANT			157	109	9.2	4.6					_
NE QUADRANT			157	109	9.2	4.6					-
SW QUADRANT			207	127	10.7	13.4	33.5	21.5			
SE QUADRANT			207	127	10.7	13.4	33.5	21.5			
SUBTOTAL	0	0	729	472	39.7	36.0	67	43	0	0	0
GRAND TOTALS	6	221	2011	1300	101.0	124.2	298	43	74	132	53

EROSION CONTROL SCHEDULE

	STONE RIPRAP, CLASS A5	FILTER FABRIC
	28100109	28200200
LOCATION	(SQ YD)	(SQ YD)
SN 036-0041	(04.15)	(04.15)
SWQUADRANT	14	14
CURTOTAL		
SUBTOTAL SN 036-0043	14	14
SN 036-0043		
SWQUADRANT		
SUBTOTAL	0	0
SN 036-0047		
SWQUADRANT		
SUBTOTAL	0	0
GRAND TOTALS	14	14

TEMPORARY RAMP SCHEDULE

40600990 (SQ YD) 33 33 66
33 33
33
33
33
66
66
33
36
69
33
47
80

CURB & GUTTER SCHEDULE

	CURB REMOVAL	COMBINATION CURB AND GUTTER REMOVAL	CONCRETE CURB, TYPE B	COMBINATION CONCRETE CURB AND GUTTER, TYPE B- 6.24
	44000300	44000500	60600605	60605000
LOCATION	(FOOT)	(FOOT)	(FOOT)	(FOOT)
SN 036-0041				` '
NW QUADRANT	15.0		15.0	
NE QUADRANT	15.0		15.0	
SWQUADRANT	15.0		15.0	
SE QUADRANT	15.0		15.0	
SUBTOTAL	60	0	60	0
SN 036-0043				
NW QUADRANT	15.0		15.0	
NE QUADRANT	15.0		15.0	
SWQUADRANT	15.0		15.0	
SE QUADRANT	15.0		15.0	
SUBTOTAL	60	0	60	0
SN 036-0047				
	45.0		45.0	
NW QUADRANT	15.0		15.0	
NE QUADRANT	15.0	04.0	15.0	04.0
SWQUADRANT	15.0	81.8	15.0	81.8
SE QUADRANT	33.0		33.0	
OUDTOTAL	70		70	
SUBTOTAL	78	82	78	82
ODAND TOTAL	400		400	
GRAND TOTALS	198	82	198	82

PAVED SHOULDER REMOVAL SCHEDULE

	PAVED
	SHOULDER
	REMOVAL
	112.1101712
	44004250
LOCATION	(SQ YD)
SN 036-0041	,
NW QUADRANT	37
NE QUADRANT	37
SWQUADRANT	48
SE QUADRANT	46
SUBTOTAL	168
SN 036-0043	
SE QUADRANT	44
SUBTOTAL	44
SN 036-0047	
SUBTOTAL	0
GRAND TOTALS	212
	-

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Chicago, Illinois 60634; (773) 399-012

USER NAME = 2189	DESIGNED -	REVISED -	
	DRAWN -	REVISED -	
	CHECKED -	REVISED -	
PLOT DATE = 5/20/2025	DATE -	REVISED -	

SCHEDULES OF QUANTITIES							SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
							[106BC-1;108(C,(VB,VC)NRS)]E	BRR HENDERSON	81	16
								CONTRACT	NO. 68	J12
SCALE: N/A	SHEET 1	OF 3	SHEETS	STA. N/A	TO STA. N/A		ILLINOIS FE	D. AID PROJECT		

GUARDRAIL SCHEDULE

	STEEL PLATE BEAM GUARDRAIL TYPE A, 6 FOOT POSTS	TRAFFIC BARRIER TERMINAL, TYPE 6	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) FLARED	GUARDRAIL REMOVAL	TERMINAL MARKER - DIRECT APPLIED	STEEL PLATE BEAM GUARDRAIL (SHORT RADIUS)	GUARDRAIL AGGREGATE EROSION CONTROL
	63000001	63100085	63100167	63100169	63200310	72501000	X6330725	Z0001002
LOCATION	(FOOT)	(EACH)	(EACH)	(EACH)	(FOOT)	(EACH)	(FOOT)	(TON)
SN 036-0041	(,	(=::::)	(=):15	(=::::)	((27.01.)	(. 55.)	(1011)
5.1.555.55.1.								_
NW QUADRANT	40.2	1	1		97.7	1		17
NE QUADRANT	40.2	1	1		97.4	i		17
SWQUADRANT	210.5	1	1		98.6	1		14
SE QUADRANT	19.6	1	1		286.2	1		42
SUBTOTAL	311	4	4	0	580	4		90
SN 036-0043								
								=
NW QUADRANT	195.6	1	1		263.8	1		40
NE QUADRANT	80.9	1	11		146.3	1		23
SWQUADRANT	67.0	1	1		124.3	1		21
SE QUADRANT	85.5	1	1		135.5	1		24
								_
SUBTOTAL	429	4	4	0	670	4		108
SN 036-0047								
								_
NW QUADRANT	197.9	1	11		261.8	1		40
NE QUADRANT	128.3	1	11		186.5	1		30
SWQUADRANT	38.1	1		1	96.8	1		17
SE QUADRANT		1		1	88.8	1	27.5	15
SUBTOTAL	365	4	2	2	634	4	28	102
ODAND TOTAL O	1405	40	40			10		
GRAND TOTALS	1105	12	10	2	1884	12	28	300

FIELD OFFICE SCHEDULE

	ENGINEER'S FIELD OFFICE, TYPE A
	67000400
LOCATION	(CAL MO)
SN 036-0041	
ENTIRE LOCATION	4.0
SUBTOTAL	4.0
SN 036-0043	
ENTIRE LOCATION	4.0
	,
SUBTOTAL	4.0
SN 036-0047	
ENTIRE LOCATION	4.0
·	
SUBTOTAL	4.0
GRAND TOTALS	12.0

MOBILIZATION SCHEDULE

	MOBILIZATION
	67100100
LOCATION	(L SUM)
	(L SUM)
SN 036-0041	
ENTIRE LOCATION	0.33
SUBTOTAL	0.33
SN 036-0043	
ENTIRE LOCATION	0.33
SUBTOTAL	0.33
SN 036-0047	
ENTIRE LOCATION	0.33
SUBTOTAL	0.33
GRAND TOTALS	1

TRAFFIC CONTROL SURVEILLANCE SCHEDULE

SCHEDULL						
	TRAFFIC CONTROL SURVEILLANCE					
LOCATION	70103815 (CAL DA)					
SN 036-0041						
ENTIRE LOCATION	60.00					
SUBTOTAL SN 036-0043	60.00					
ENTIRE LOCATION	60.00					
SUBTOTAL	60.00					
SN 036-0047						
ENTIRE LOCATION	60.00					
SUBTOTAL	60.00					
GRAND TOTALS	180.00					

TEMPORARY BRIDGE TRAFFIC SIGNALS SCHEDULE

	TEMPORARY BRIDGE TRAFFIC SIGNALS
	70106500
LOCATION	(EACH)
SN 036-0041	
	·
ENTIRE LOCATION	1
SUBTOTAL	1
SN 036-0043	
ENTIRE LOCATION	1
SUBTOTAL	1
SN 036-0047	
ENTIRE LOCATION	1
SUBTOTAL	1
GRAND TOTALS	3

TRAFFIC CONTROL AND PROTECTION STANDARDS SCHEDULES

	TRAFFIC CONTROL	TRAFFIC CONTROL	TRAFFIC CONTROL	TRAFFIC CONTROL
	AND PROTECTION,	AND PROTECTION,	AND PROTECTION,	AND PROTECTION,
	STANDARD 701321	STANDARD 701201	STANDARD 701306	STANDARD 701326
	70100405	70100450	70100460	70100500
LOCATION	(EACH)	(L SUM)	(L SUM)	(L SUM)
SN 036-0041				
ENTIRE LOCATION	1	0.33	0.33	0.33
SUBTOTAL	1	0.33	0.33	0.33
SN 036-0043				
FNTIRE I OCATION	1	0.33	0.33	0.33
SUBTOTAL	1	0.33	0.33	0.33
SN 036-0047				
ENTIRE LOCATION	1	0.33	0.33	0.33
SUBTOTAL	1	0.33	0.33	0.33
	-			
GRAND TOTALS	3	1	1	1

TEMPORARY RUMBLE STRIPS SCHEDULE

	TEMPORARY RUMBLE
	STRIPS
	70106700
LOCATION	(EACH)
SN 036-0041	
ENTIRE LOCATION	6
SUBTOTAL	6
SN 036-0043	
ENTIRE LOCATION	6
SUBTOTAL	6
SN 036-0047	
ENTIRE LOCATION	6
SUBTOTAL	6
GRAND TOTALS	18

CHANGEABLE MESSAGE SIGN SCHEDULE

	CHANGEABLE
	MESSAGE SIGN
	70107025
LOCATION	(CAL DA)
SN 036-0041	
ENTIRE LOCATION	14.00
SUBTOTAL	14.00
SN 036-0043	
ENTIRE LOCATION	14.00
SUBTOTAL	14.00
SN 036-0047	
ENTIRE LOCATION	14.00
SUBTOTAL	14.00
GRAND TOTALS	42.00

USER NAME = 2189	DESIGNED -	REVISED -
	DRAWN -	REVISED -
	CHECKED -	REVISED -
PLOT DATE = 5/20/2025	DATE -	REVISED -

	SCF	IEDULE:	S OF Q	UANTITIE	S	F.A.S. RTE	SEC	TION		COUNTY	TOTAL SHEETS	SHEE NO.
						1412	[106BC-1;108(C,(VB,VC)NR	S)]BRR	HENDERSON	81	17
										CONTRACT	NO. 68	J12
SCALE: N/A	SHEET 2	OF 3	SHEETS	STA. N/A	TO STA. N/A			ILLINOIS	FED. AII	D PROJECT		

PAVEMENT MARKING SCHEDULE

	SHORT TERM PAVEMENT MARKING	SHORT TERM PAVEMENT MARKING REMOVAL	TEMPORARY PAVEMENT MARKING - LINE 4" - TYPE IV TAPE	TEMPORARY PAVEMENT MARKING - LINE 24" - TYPE IV TAPE	PAINT PAVEMENT MARKING - LINE 4"	PAINT PAVEMENT MARKING - LINE 24"	PAVEMENT MARKING REMOVAL - WATER BLASTING
	70300100	70300150	70307120	70307210	78001110	78001180	78300202
LOCATION	(FOOT)	(SQ FT)	(FOOT)	(FOOT)	(FOOT)	(FOOT)	(SQ FT)
SN 036-0041							
ENTIRE LOCATION	225	80	3000	48	1960	0	800
SUBTOTAL	225	80	3000	48	1960	0	800
SN 036-0043							
ENTIRE LOCATION	255	90	3400	48	2400	0	800
SUBTOTAL	255	90	3400	48	2400	0	800
SN 036-0047							
ENTIRE LOCATION	330	110	4440	48	1930	15	800
SUBTOTAL	330	110	4440	48	1930	15	800
GRAND TOTALS	810	280	10840	144	6290	15	2400

TEMPORARY CONCRETE BARRIER SCHEDULE

	TEMPORARY CONCRETE BARRIER	RELOCATE TEMPORARY CONCRETE BARRIER	IMPACT ATTENUATORS, TEMPORARY (NON- REDIRECTIVE, NARROW), TEST LEVEL 3	IMPACT ATTENUATORS RELOCATE (NON- REDIRECTIVE, NARROW TEST LEVEL 3
	70400100	70400200	70600251	70600352
LOCATION	(FOOT)	(FOOT)	(EACH)	(EACH)
SN 036-0041			,	
STAGE 1	400.0		2	
STAGE 2		400.0		2
SUBTOTAL	400.0	400.0	2	2
SN 036-0043				
STAGE 1	600.0		2	
STAGE 2	000.0	600.0	2	2
SUBTOTAL	600.0	600.0	2	2
SN 036-0047	550.0		_	-
STAGE 1	750.0		2	
STAGE 1	750.0	750.0	2	2
SUBTOTAL	750.0	750.0	2	2
GRAND TOTALS	1750.0	1750.0	6	6

BARRIER WALL REFLECTORS, TYPE C SCHEDULE

	BARRIER WALL
	REFLECTORS, TYPE C
	•
	78200011
LOCATION	(EACH)
SN 036-0041	
ENTIRE LOCATION	20
SUBTOTAL	20
SN 036-0043	
ENTIRE LOCATION	20
SUBTOTAL	20
SN 036-0047	
ENTIDE LOCATION	20
ENTIRE LOCATION	20
SUBTOTAL	20
SUBTUTAL	20
GRAND TOTALS	60
GRAND IOTALS	60

CONSTRUCTION LAYOUT SCHEDULE

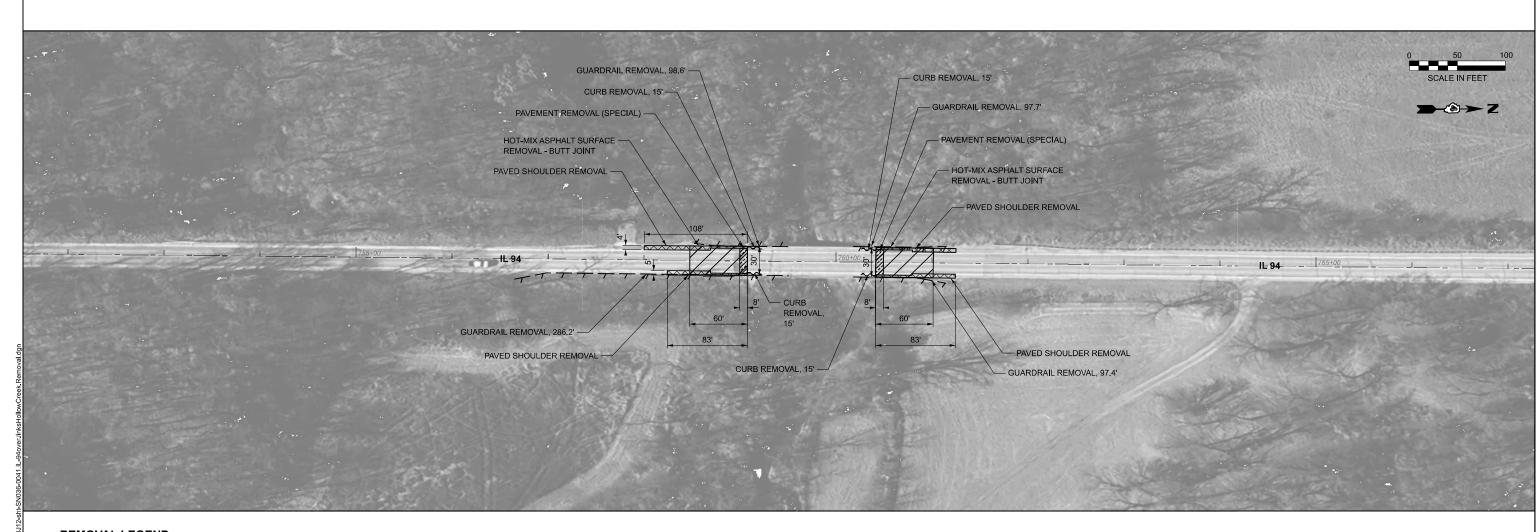
	CONSTRUCTION N LAYOUT
	20013798
LOCATION	(L SUM)
SN 036-0041	
ENTIRE LOCATION	0.33
SUBTOTAL	0.33
SN 036-0043	
ENTIRE LOCATION	0.33
SUBTOTAL	0.33
SN 036-0047	
ENTIRE LOCATION	0.33
ENTIRE LOCATION	0.55
SUBTOTAL	0.33
CODICIAL	2.00
GRAND TOTALS	1
2.31112 1017120	· ·

GRØEF

8501 W. Higgins Road; Suite 280
Chicago, Minols 60634 (173) 399-002

USER NAME = 2189	DESIGNED -	REVISED -
	DRAWN -	REVISED -
	CHECKED -	REVISED -
PLOT DATE = 5/20/2025	DATE -	REVISED -

					F.A.S. RTE.	SECTION		COUNTY	TOTAL SHEETS	SHEET NO.
·						[106BC-1;108(C,(VB,VC)NRS)]	BRR	HENDERSON	81	18
								CONTRACT	NO. 68.	J12
SCALE: N/A SHEET	3 OF 3	SHEETS	STA. N/A	TO STA. N/A		ILLINOIS FE	ED. AID	PROJECT		



REMOVAL LEGEND

HMA SURFACE REMOVAL, BUTT JOINT

PAVEMENT REMOVAL (SPECIAL) - SEE DETAIL

PAVED SHOULDER REMOVAL

GUARDRAIL REMOVAL

— HMA SURFACE REMOVAL

CURB REMOVAL

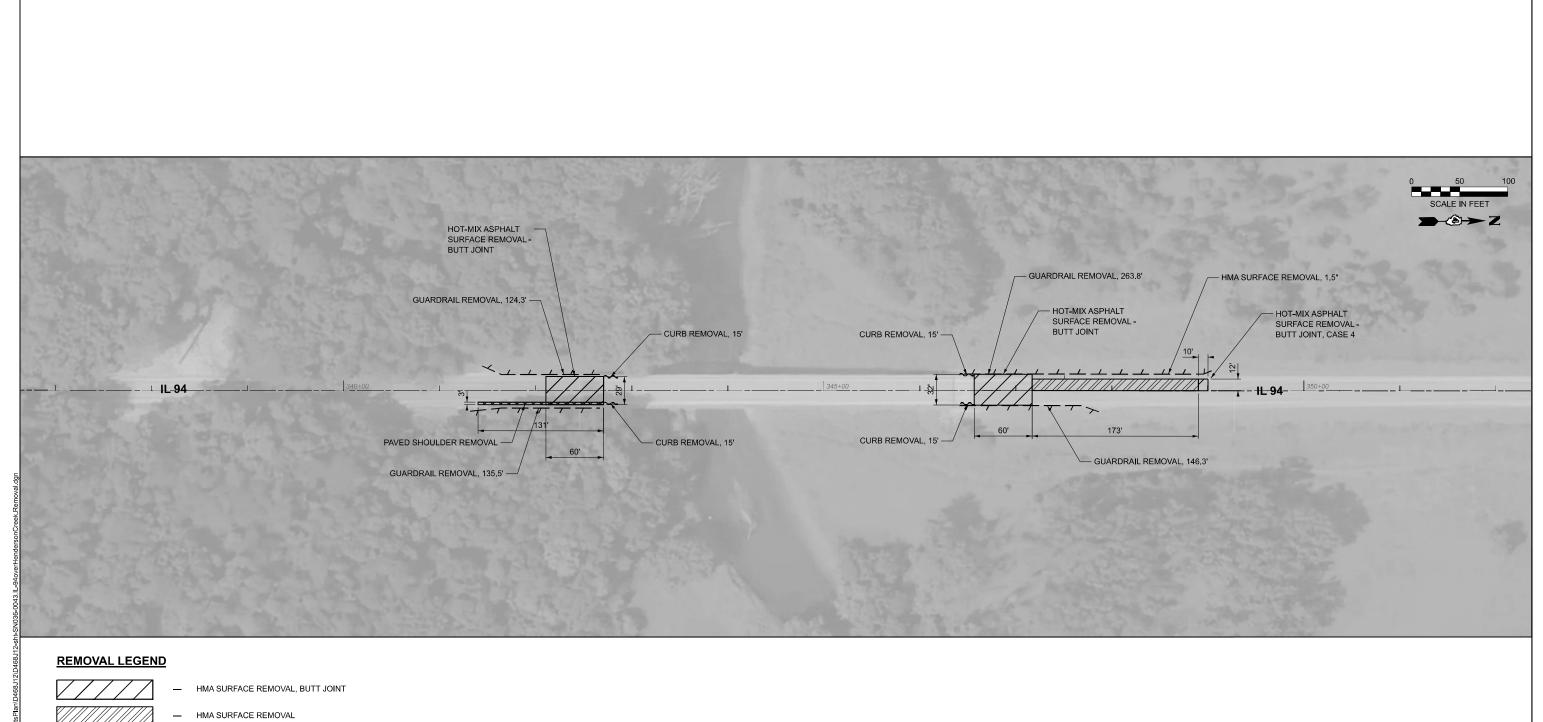
GR@EF
Ghaler
8501 W. Higgins Road; Suite 280
Chicago, Minois 60631; (773) 399-002

USER NA	ME = 2189	DESIGNED -	REVISED -
		DRAWN -	REVISED -
		CHECKED -	REVISED -
PLOT DA	TE = 5/8/2025	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

	REMOVAL PLAN							
SN 03	6-0041	IL-94 OV	/ER JIN	KS HO	LLOW CREEK			
	SHEET	OF	SHEETS	STA	TO STA			

A.S.	E. SECTION			COUNTY	TOTAL SHEETS	SHEE NO.
1412				HENDERSON	81	19
				CONTRACT	NO. 68.	J12
		ILLINOIS	FED. AII	PROJECT		
	RTE.	RTE. SECT	RTE. SECTION 1412 [106BC-1;108(C,(VB,VC)NR	RTE. SECTION		XTE. SECTION COUNTY SHEETS 1412 [106BC-1;108(C,(VB,VC)NRS)]BRR HENDERSON 81 CONTRACT NO. 68.



— PAVEMENT REMOVAL (SPECIAL) - SEE DETAIL

PAVED SHOULDER REMOVAL

7-7-7-

- GUARDRAIL REMOVAL

 $\sim\sim$

CURB REMOVAL

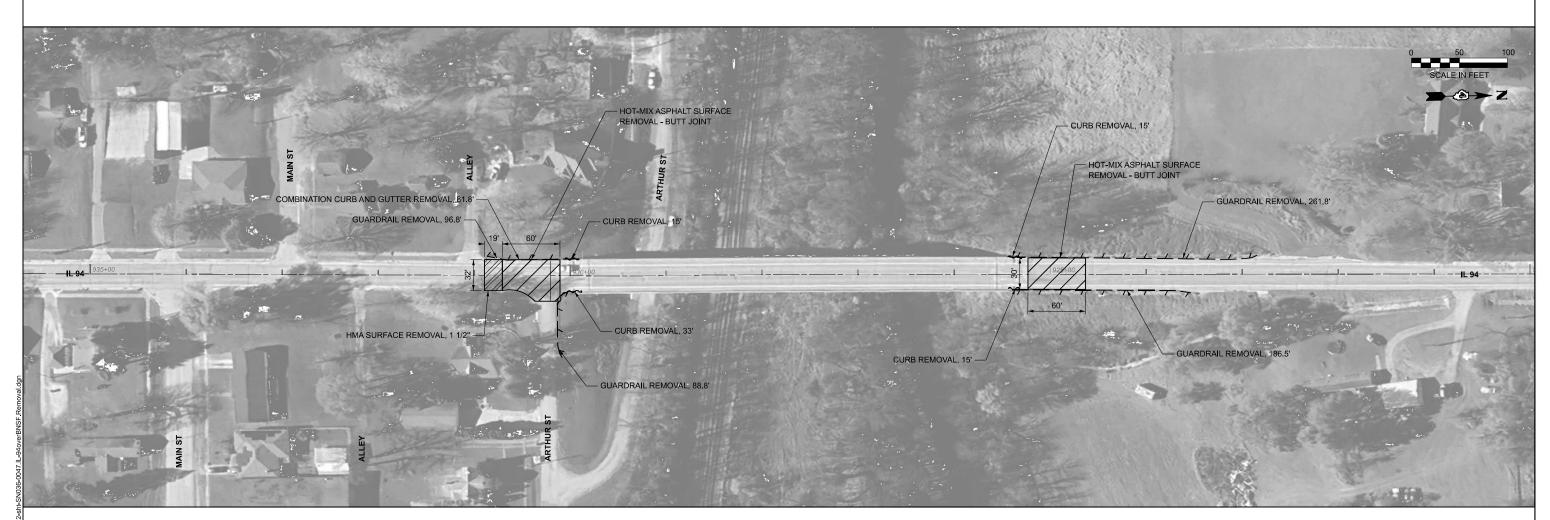
LE NAME.	GR a EF
	8501 W. Higgins Road; Suite 280 Chicago, Minois 60634; (773) 399-002

USER NAME = 2189	DESIGNED -	REVISED -
	DRAWN -	REVISED -
	CHECKED -	REVISED -
PLOT DATE = 5/8/2025	DATE -	REVISED -
		,

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

	REMOVAL PLAN								
SN 0	SN 036-0043 IL-94 OVER HENDERSON CREEK								
	SHEET	OF	SHEETS	STA	TO STA				

F.A.S. RTE	SECT	TION		COUNTY	TOTAL SHEETS	SHEE NO.
1412	412 [106BC-1;108(C,(VB,VC)NRS)]BRR			HENDERSON	81	20
				CONTRACT	NO. 68.	J12
		ILLINOIS	FED. AII	PROJECT		



REMOVAL LEGEND

— HMA SURFACE REMOVAL, BUTT JOINT

HMA SURFACE REMOVAL

PAVEMENT REMOVAL (SPECIAL) - SEE DETAIL

— PAVED SH

PAVED SHOULDER REMOVAL

GUARDRAIL REMOVAL

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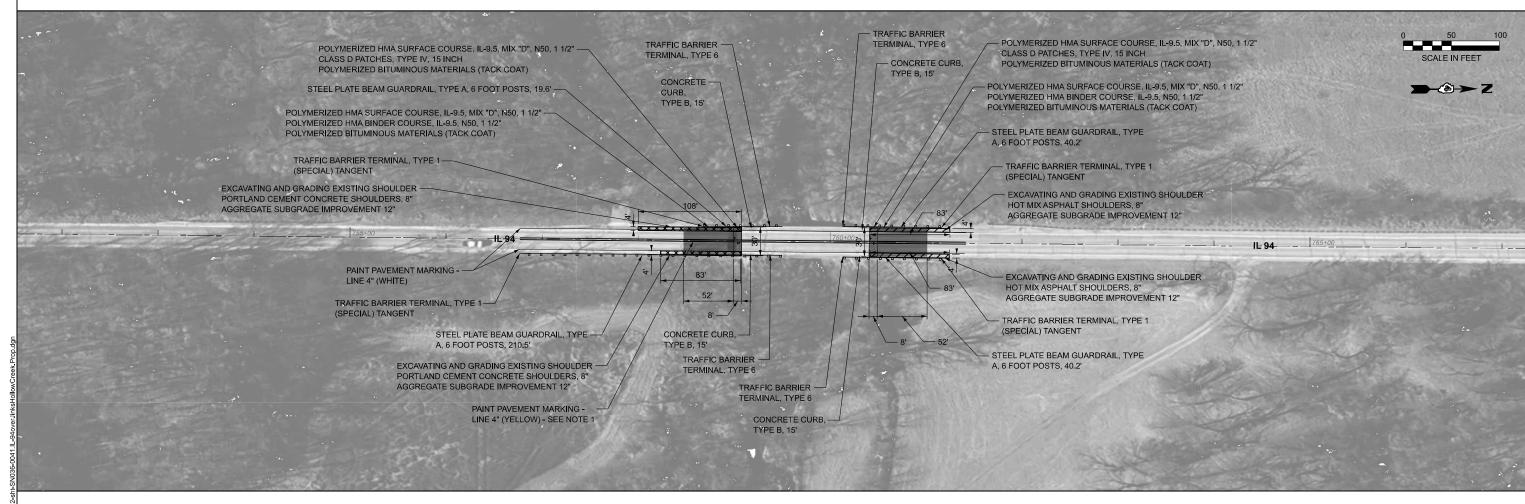
CURB REMOVAL

| GRaEF                                                                   |
|-------------------------------------------------------------------------|
| 8501 W. Higgins Road; Suite 280<br>Chicago, Minois 60634; (773) 399-002 |

| USER NAME = 2189     | DESIGNED - | REVISED - |
|----------------------|------------|-----------|
|                      | DRAWN -    | REVISED - |
|                      | CHECKED -  | REVISED - |
| PLOT DATE = 5/8/2025 | DATE -     | REVISED - |

| STATE OF ILLINOIS            |
|------------------------------|
| DEPARTMENT OF TRANSPORTATION |

| REMOVAL PLAN                  |    |        |                    |         | F.A.S.<br>RTE.                 | SECTION   | COUNTY | TOTAL<br>SHEETS | SHEET<br>NO. |  |
|-------------------------------|----|--------|--------------------|---------|--------------------------------|-----------|--------|-----------------|--------------|--|
| SN 036-0047 IL-94 OVER BNSF   |    |        |                    | 1412    | [106BC-1;108(C,(VB,VC)NRS)]BRR | HENDERSON | 81     | 21              |              |  |
| 314 030-0047 IL-34 OVER DIASI |    |        | CONTRACT NO. 68J12 |         |                                |           | J12    |                 |              |  |
| HEET                          | OF | SHEETS | STA.               | TO STA. | ILLINOIS FED, AID PROJECT      |           |        |                 |              |  |



#### PROPOSED LEGEND

- -
- POLYMERIZED HMA SURFACE COURSE, IL-9.5, MIX "D", N50 1 1/2"
   POLYMERIZED HMA BINDER COURSE, IL-9.5, N50 1 1/2"
   POLYMERIZED BITUMINOUS MATERIALS (TACK COAT)
- ۵
- POLYMERIZED HMA SURFACE COURSE, IL-9.5, MIX "D", N50 1 1/2" CLASS D PATCHES, TYPE IV, 15 INCH POLYMERIZED BITUMINOUS MATERIALS (TACK COAT)
- <del>-----</del>
- STEEL PLATE BEAM GUARDRAIL
- EXCAVATING AND GRADING EXISTING SHOULDER HOT-MIX ASPHALT SHOULDERS, 8" AGGREGATE SUBGRADE IMPROVEMENT 12"
- EXCAVATING AND GRADING EXISTING SHOULDER PORTLAND CEMENT CONCRETE SHOULDERS, 8" AGGREGATE SUBGRADE IMPROVEMENT 12"

#### **NOTES**

- THE RESIDENT ENGINEER SHALL CONTACT OPERATIONS
   TO VERIFY THE LOCATION OF NO PASSING ZONES PRIOR
   TO PLACEMENT OF CENTERLINE PAVEMENT MARKINGS
- 2. PAVEMENT REMOVAL (SPECIAL) SHALL BE FULL DEPTH SAW CUT.

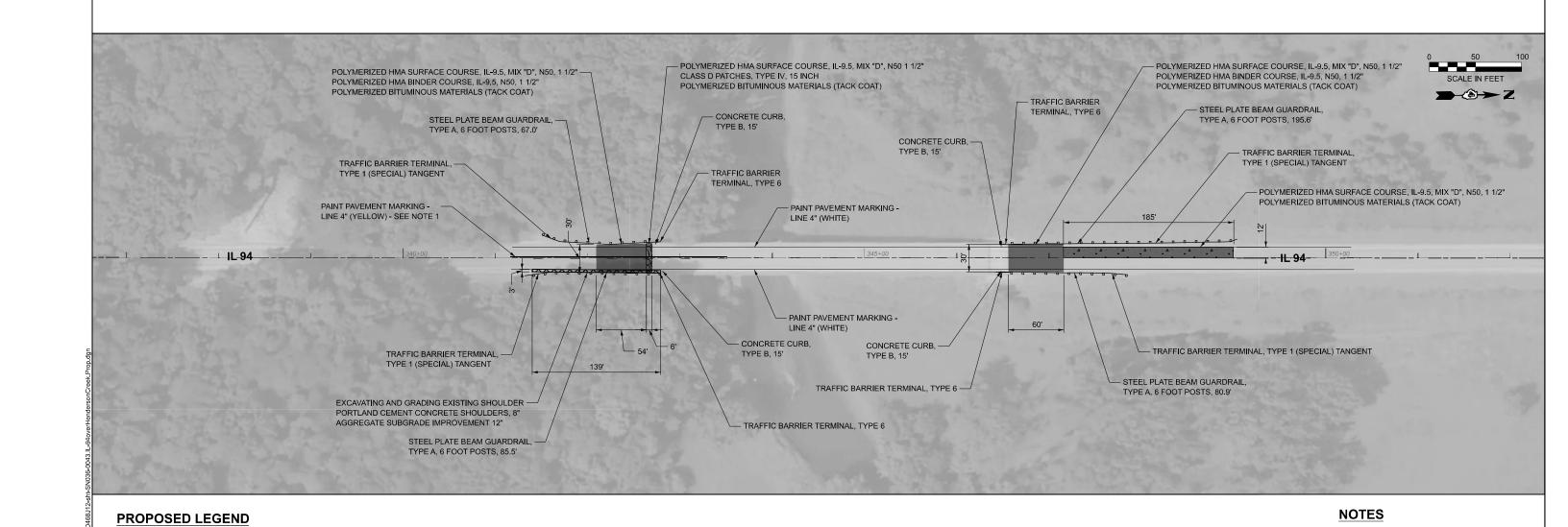
| GR@EF                                                                    |
|--------------------------------------------------------------------------|
| 8501 W., Higgins Road; Suite 280<br>Chicago, Minois 60634; (773) 399-002 |

| USER NAME = 2189     | DESIGNED - | REVISED - |
|----------------------|------------|-----------|
|                      | DRAWN -    | REVISED - |
|                      | CHECKED -  | REVISED - |
| PLOT DATE = 5/8/2025 | DATE -     | REVISED - |
|                      |            |           |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

| SN 03 | 6-0041 I |    | POSED F<br>/ER JINI |      | LOW CREEK |
|-------|----------|----|---------------------|------|-----------|
|       | SHEET    | OF | SHEETS              | STA. | TO STA.   |

SCALE:



MODEL: Default

MODEL: Default FILE NAME: X:\( GRØEF

8501 W. Higgins Road; Suite 280
Chicago, Minois 6063k; (773) 399-042

POLYMERIZED HMA SURFACE COURSE, IL-9.5, MIX "D", N50 1 1/2"

POLYMERIZED HMA SURFACE COURSE, IL-9.5, MIX "D", N50 1 1/2" POLYMERIZED BITUMINOUS MATERIALS (TACK COAT)

POLYMERIZED HMA SURFACE COURSE, IL-9.5, MIX "D", N50 1 1/2"

POLYMERIZED HMA BINDER COURSE, IL-9.5, N50 1 1/2"

POLYMERIZED BITUMINOUS MATERIALS (TACK COAT)

EXCAVATING AND GRADING EXISTING SHOULDER PORTLAND CEMENT CONCRETE SHOULDERS, 8" AGGREGATE SUBGRADE IMPROVEMENT 12"

POLYMERIZED BITUMINOUS MATERIALS (TACK COAT)

STEEL PLATE BEAM GUARDRAIL

CLASS D PATCHES, TYPE IV, 15 INCH

## STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

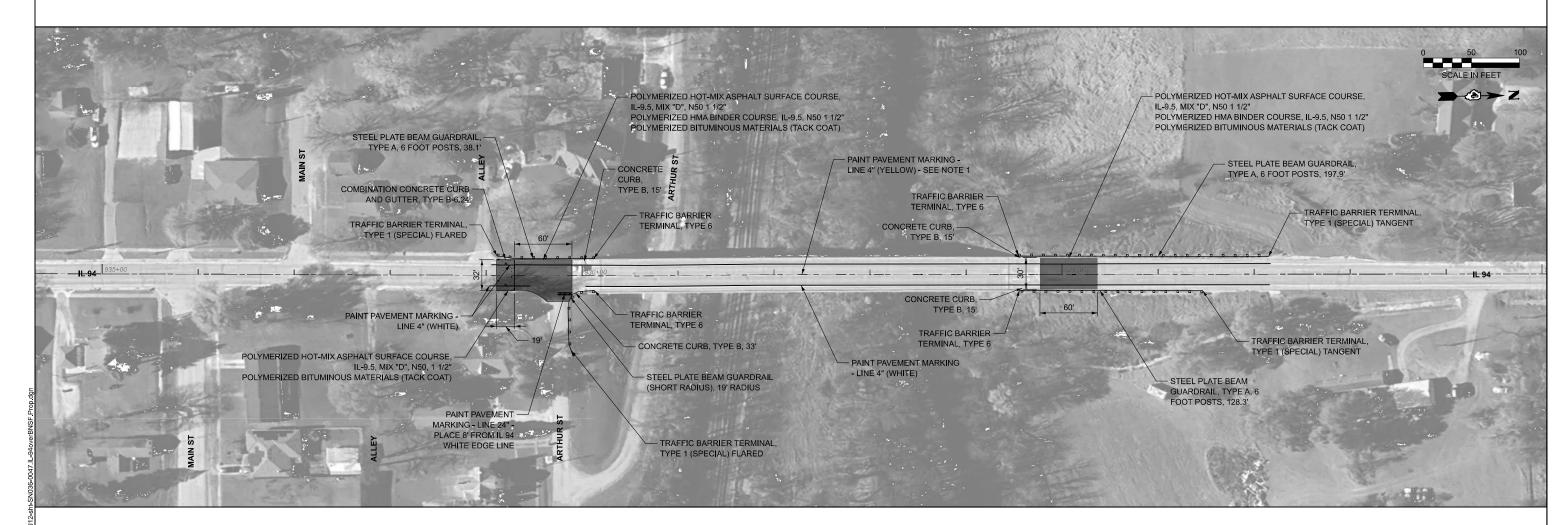
THE RESIDENT ENGINEER SHALL

TO PLACEMENT OF CENTERLINE PAVEMENT MARKINGS

CONTACT OPERATIONS TO VERIFY THE

INSTALL A 6' PATCH TO COVER THE HOLE IN THE ASPHALT PAVEMENT SOUTH OF THE SOUTH APPROACH SLAB

LOCATION OF NO PASSING ZONES PRIOR



#### **PROPOSED LEGEND**



POLYMERIZED HMA SURFACE COURSE, IL-9.5, MIX "D", N50 1 1/2"
 POLYMERIZED HMA BINDER COURSE, IL-9.5, N50 1 1/2"
 POLYMERIZED BITUMINOUS MATERIALS (TACK COAT)



POLYMERIZED HMA SURFACE COURSE, IL-9,5, MIX "D", N50 1 1/2"
 POLYMERIZED BITUMINOUS MATERIALS (TACK COAT)



EXCAVATING AND GRADING EXISTING SHOULDER
HOT-MIX ASPHALT SHOULDERS, 8"
AGGREGATE SUBGRADE IMPROVEMENT 12"

0 0 0 0

STEEL PLATE BEAM GUARDRAIL

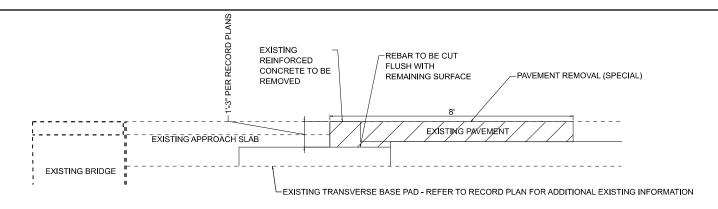
#### NOTES

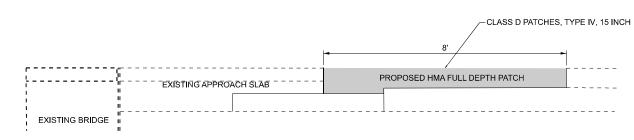
THE RESIDENT ENGINEER SHALL
 CONTACT OPERATIONS TO VERIFY THE
 LOCATION OF NO PASSING ZONES PRIOR
 TO PLACEMENT OF CENTERLINE
 PAVEMENT MARKINGS.

| GRaef                                                                    |
|--------------------------------------------------------------------------|
| 8501 W. Higgins Road; Suite 280<br>Chicago, Minois 6063(; (773) 399-0112 |

| USER NAME = 2189     | DESIGNED - | REVISED - |
|----------------------|------------|-----------|
|                      | DRAWN -    | REVISED - |
|                      | CHECKED -  | REVISED - |
| PLOT DATE = 5/8/2025 | DATE -     | REVISED - |

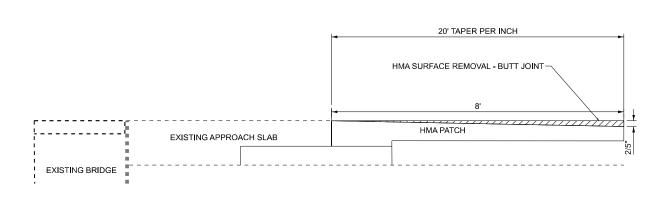
| PROPOSED PLAN                  |    |        |      | F.A.S.<br>RTE | SEC. | TION                           |          | COUNTY   | TOTAL<br>SHEETS | SHEET<br>NO. |    |
|--------------------------------|----|--------|------|---------------|------|--------------------------------|----------|----------|-----------------|--------------|----|
| SN 036-0047 IL-94 OVER BNSF    |    |        |      |               | 1412 | [106BC-1;108(C,(VB,VC)NRS)]BRR |          | S)]BRR   | HENDERSON       | 81           | 24 |
| 011 030-0047 IE-34 0 VER BITOI |    |        |      |               |      |                                | CONTRACT | NO. 68.  | J12             |              |    |
| SHEET                          | OF | SHEETS | STA. | TO STA.       |      |                                | ILLINOIS | FED, AID | PROJECT         |              |    |

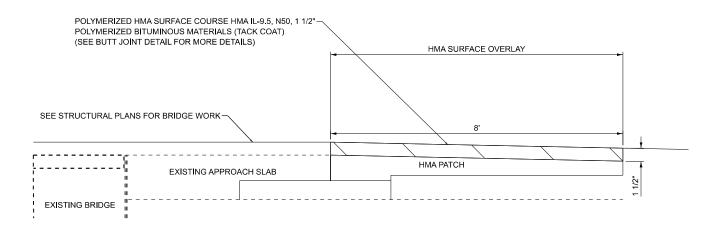




#### OPERATION 1 - PAVEMENT REMOVAL - SPECIAL (DETAIL) - N.T.S.

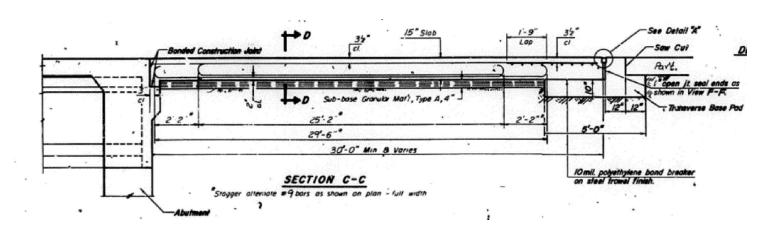




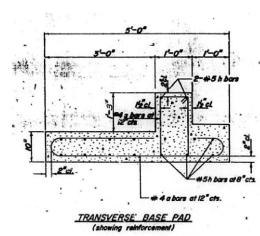


**OPERATION 3 - HMA SURFACE REMOVAL - BUTT JOINT- N.T.S.** 

OPERATION 4 - HMA SURFACE OVERLAY - N.T.S.



**CONTRACT 88028 - APPROACH SLAB CONDITION (SPECIAL)** 



#### CONTRACT 88028 - TRANVERSE BASE PAD DETAIL

SCALE:

| _                                   | USER NAME = 2189     | DESIGNED - | REVISED - | 1  |
|-------------------------------------|----------------------|------------|-----------|----|
| GRÆEF                               |                      | DRAWN -    | REVISED - | l) |
| 8501W. Higgins Road: Suite 280      |                      | CHECKED -  | REVISED - | i  |
| Chicago, Minois 60634 (773) 399-002 | PLOT DATE = 5/8/2025 | DATE -     | REVISED - | i  |

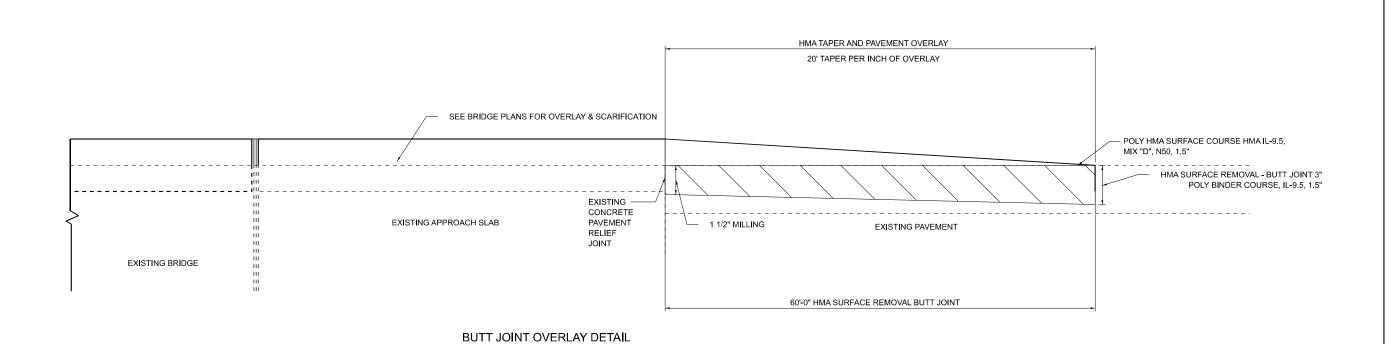
| STATE OF ILLINOIS            |
|------------------------------|
| DEPARTMENT OF TRANSPORTATION |

| PAVEMENT REMOVAL SPECIAL<br>SN 036-0041 |    |        | F.A.S.<br>RTE |                                     |  | COUNTY | TOTAL<br>SHEETS | SHEET<br>NO. |         |     |  |  |
|-----------------------------------------|----|--------|---------------|-------------------------------------|--|--------|-----------------|--------------|---------|-----|--|--|
|                                         |    |        | 1412          | 1412 [106BC-1;108(C,(VB,VC)NRS)]BRR |  | S)]BRR | HENDERSON       | 81           | 25      |     |  |  |
| 314 030-0041                            |    |        |               |                                     |  |        |                 | CONTRACT     | NO. 68. | J12 |  |  |
| SHEET                                   | OF | SHEETS | STA.          | TO STA.                             |  |        | ILLINOIS        | FED, AID     | PROJECT |     |  |  |

**NOTES** 

(SPECIAL)

REFER TO BUTT JOINT DETAIL FOR THE AREA BEYOND THE LIMITS OF PAVEMENT REMOVAL



GRØEF

8501W, Higgins Road; Suite 280
Chicago, Minois 60634; (773) 399-002

 USER NAME
 = 2189
 DESIGNED
 REVISED

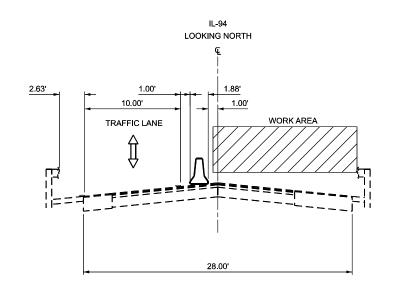
 DRAWN
 REVISED

 CHECKED
 REVISED

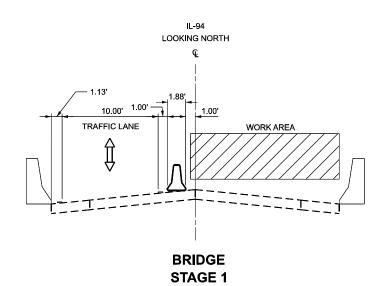
 PLOT DATE
 = 5/8/2025
 DATE
 REVISED

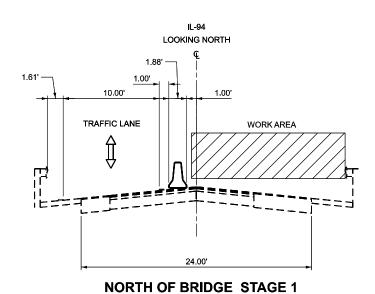
STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

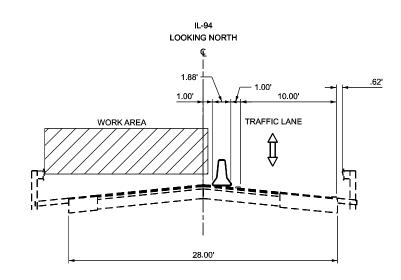
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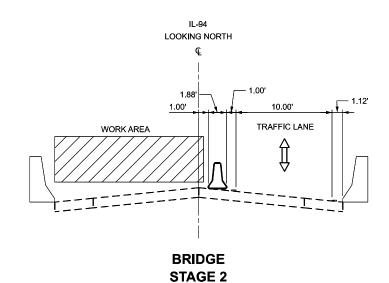
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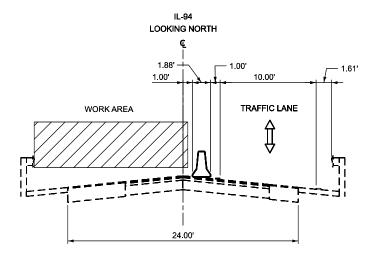






#### **SOUTH OF BRIDGE STAGE 2**





NORTH OF BRIDGE STAGE 2

GROEF

8501 W. Higgins Road; Suite 280
Chicago, Minols 60634 (773) 399-002

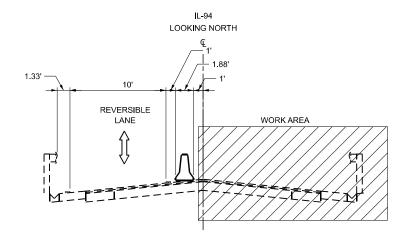
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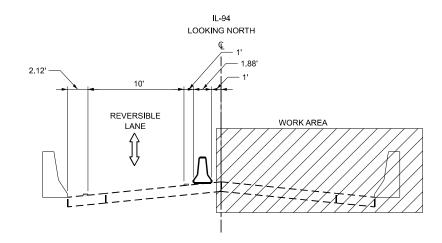
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 PLOT DATE = 5/8/2025
 DATE REVISED

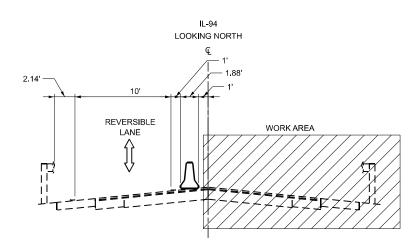
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



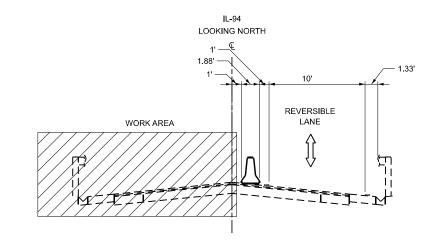
#### **SOUTH OF BRIDGE STAGE 1**



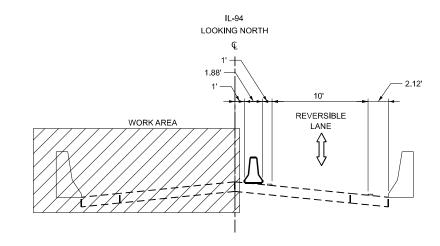
BRIDGE STAGE 1



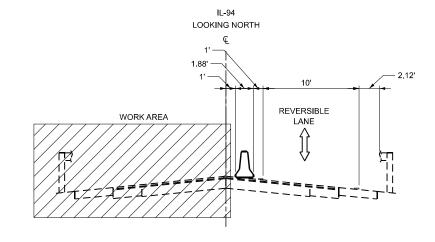
**NORTH OF BRIDGE STAGE 1** 



#### **SOUTH OF BRIDGE STAGE 2**



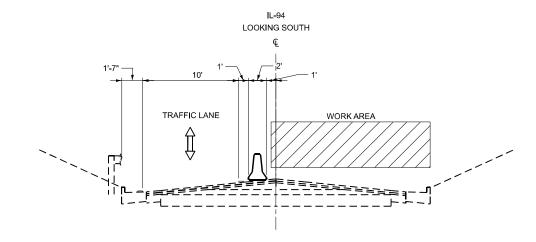
BRIDGE STAGE 2



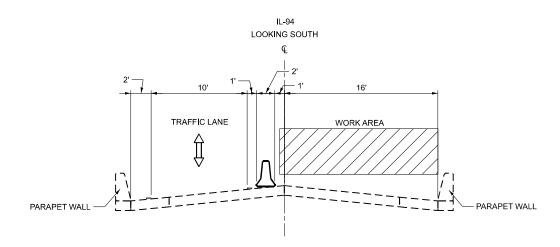
NORTH OF BRIDGE STAGE 2



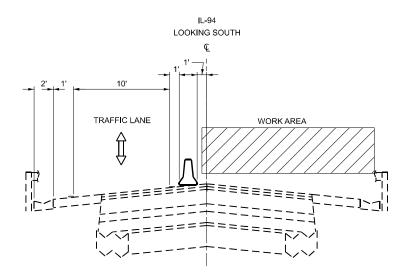
| USER NAME = 2189     | DESIGNED - | REVISED - |
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| PLOT DATE = 5/8/2025 | DATE -     | REVISED - |
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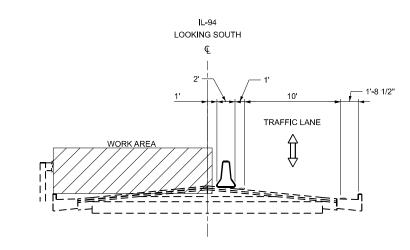
#### **SOUTH OF BRIDGE STAGE 1**



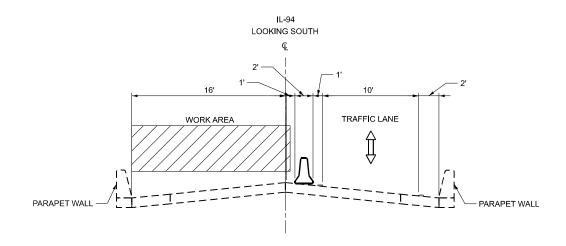
#### BRIDGE STAGE 1



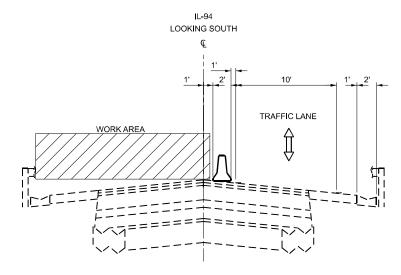
**NORTH OF BRIDGE STAGE 1** 



#### **SOUTH OF BRIDGE STAGE 2**



BRIDGE STAGE 2

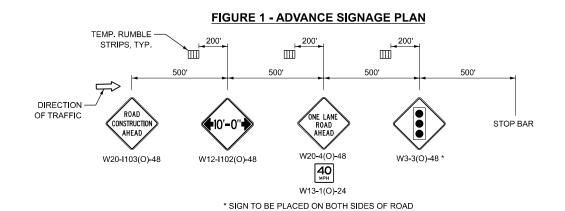


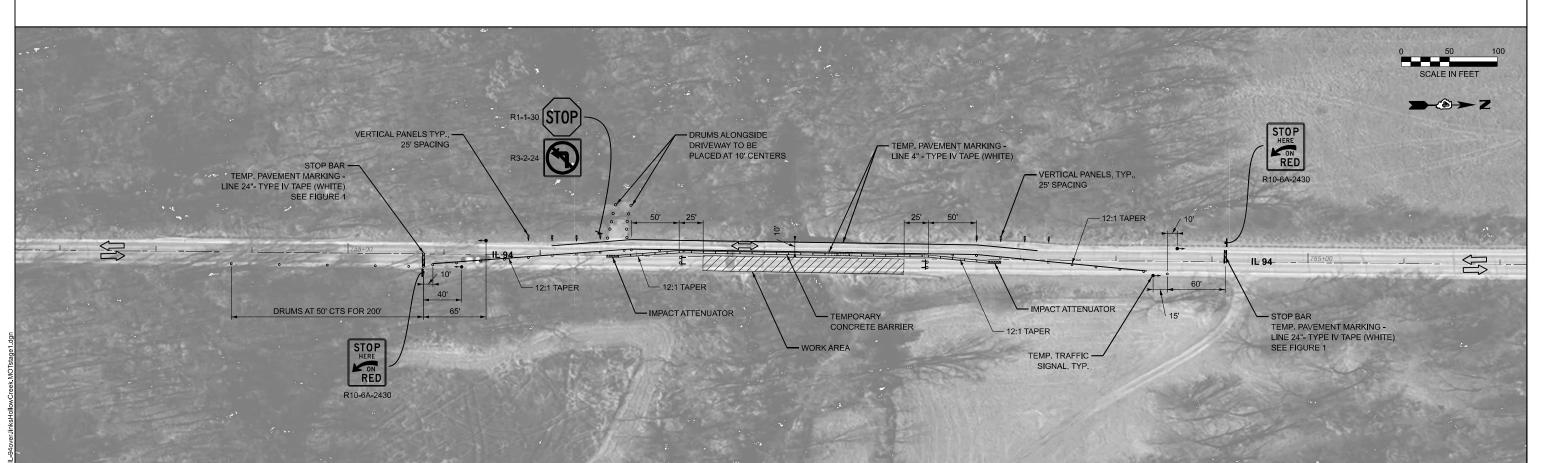
NORTH OF BRIDGE STAGE 2



| USER NAME = 2189     | DESIGNED - | REVISED - |
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|                      | DRAWN -    | REVISED - |
|                      | CHECKED -  | REVISED - |
| PLOT DATE = 5/8/2025 | DATE -     | REVISED - |

| SUGGESTER                      | SUGGESTED MAINTENANCE OF TRAFFIC TYPICAL SECTIONS |    |        |      |         |      |                                |          | COUNTY    | TOTAL<br>SHEETS | SHEET<br>NO. |
|--------------------------------|---------------------------------------------------|----|--------|------|---------|------|--------------------------------|----------|-----------|-----------------|--------------|
| SN 036-0047 IL-94 OVER BNSF RR |                                                   |    |        |      |         | 1412 | [106BC-1;108(C,(VB,VC)NRS)]BRR |          | HENDERSON | 81              | 29           |
|                                | 3N 030-0047 IE-94 OVER BN31 KK                    |    |        |      |         |      |                                |          | CONTRACT  | NO. 68.         | J12          |
| SCALE:                         | SHEET                                             | OF | SHEETS | STA. | TO STA. |      | ILLINOIS                       | FED. AID | PROJECT   |                 |              |







WORK AREA

O DRUM

TEMPORARY CONCRETE BARRIER

IMPACT ATTENUATOR

→ TRAFFIC SIGNAL

DOUBLE VERTICAL PANEL (SEE DETAIL IN STD. 701321-19)

TYPE III BARRICADE WITH FLASHING LIGHTS

#### **NOTES**

- TYPE III BARRICADES ARE TO BE IN PLACE WHEN NO WORK IS BEING PERFORMED.
- 2. DRUMS WITHIN LANE CLOSURE TAPERS SHALL HAVE STEADY BURNING BI-DIRECTIONAL LIGHTS
- 3. DRUMS SHALL BE PLACED AT 25' CENTER-TO-CENTER UNLESS OTHERWISE SPECIFIED.
- 4. FOR ADDITIONAL REQUIRED DETAILS, SEE IDOT STANDARD 701316-14.

| i          | <b>—</b>                            |
|------------|-------------------------------------|
| TILE NAME. | GR@EF                               |
| ż          | GROEF                               |
| 4          | 8501W. Higgins Road; Suite 280      |
| Ξ          | Chicago, Minois 6063k (773) 399-002 |

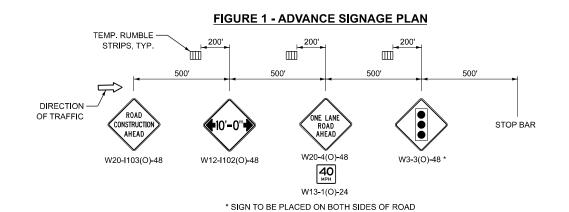
| USER NAME = 2189     | DESIGNED - | REVISED - |
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|                      | DRAWN -    | REVISED - |
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| PLOT DATE = 5/8/2025 | DATE -     | REVISED - |

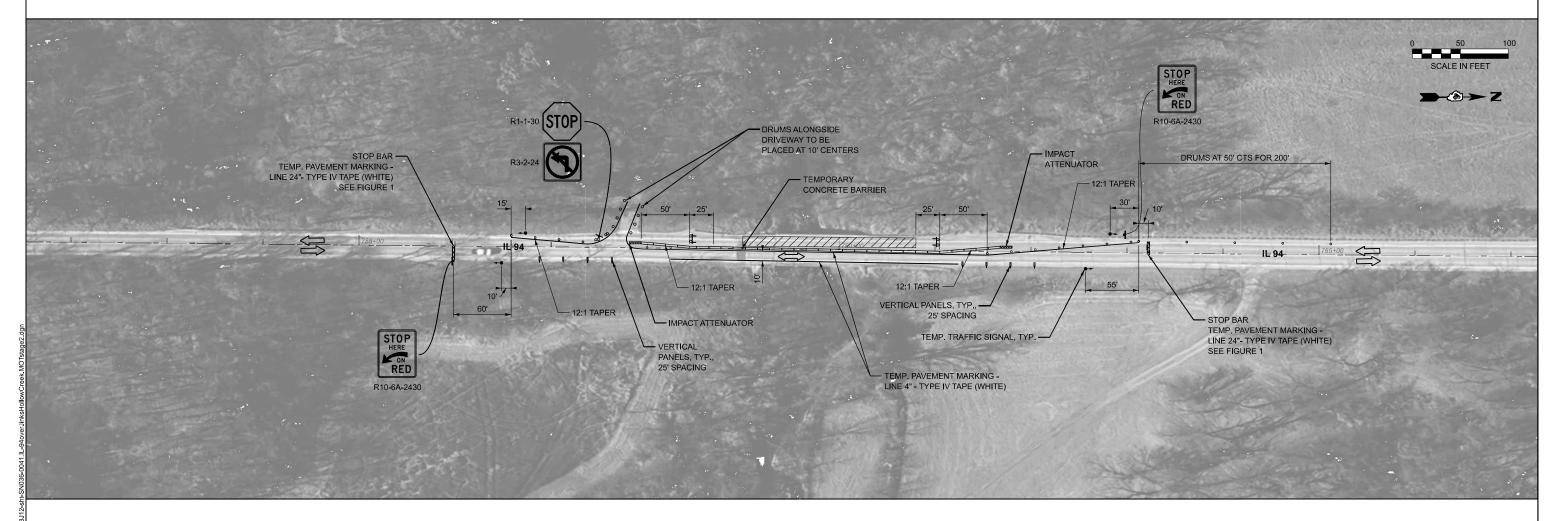
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TEMPORARY RUMBLE STRIP

|     |       |    |        |      | TIC PLAN - STAGE 1<br>LLOW CREEK |
|-----|-------|----|--------|------|----------------------------------|
| LE: | SHEET | OF | SHEETS | STA. | TO STA.                          |

| F.A.S.<br>RTE. | SECTION                        | COUNTY             | TOTAL<br>SHEETS                       | SHEET<br>NO. |           |    |    |
|----------------|--------------------------------|--------------------|---------------------------------------|--------------|-----------|----|----|
| 1412           | [106BC-1;108(C,(VB,VC)NRS)]BRR |                    | [106BC-1;108(C,(VB,VC)NRS)]BRR HENDER |              | HENDERSON | 81 | 30 |
|                |                                | CONTRACT NO. 68J12 |                                       |              |           |    |    |
|                | ILLINOIS FED AID PROJECT       |                    |                                       |              |           |    |    |









WORK AREA

O DRUM

TEMPORARY CONCRETE BARRIER

IMPACT ATTENUATOR

TRAFFIC SIGNAL

DOUBLE VERTICAL PANEL (SEE DETAIL IN STD. 701321-19)

TYPE III BARRICADE WITH FLASHING LIGHTS

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| ŞI | CDSEE                               |
| ≥l | <b>GR</b> @EF                       |
| ᆈ  | 8501W. Higgins Road; Suite 280      |
| ᆔ  | Chicago, Minois 6063k (773) 399-002 |

| USER NAME = 2189     | DESIGNED - | REVISED - |  |
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| PLOT DATE = 5/8/2025 | DATE -     | REVISED - |  |

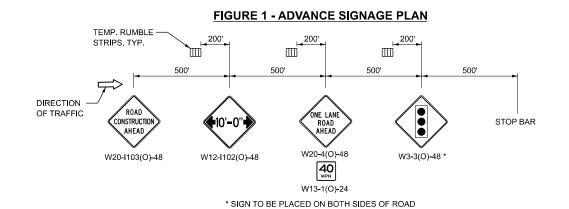
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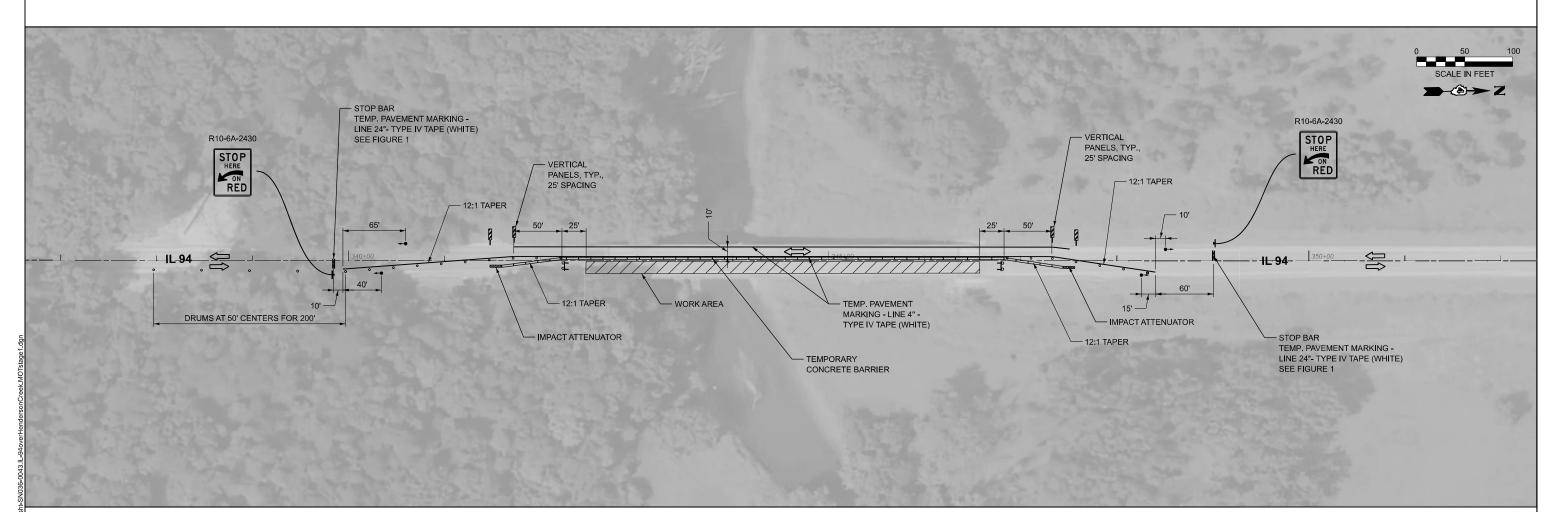
TEMPORARY RUMBLE STRIP

DETECTOR LOOPS

|     | UGGESTED MAINTENANCE OF TRAFFIC PLAN - STAGE 2<br>SN 036-0041 IL-94 OVER JINKS HOLLOW CREEK |    |        |      |         |  |  |  |  |
|-----|---------------------------------------------------------------------------------------------|----|--------|------|---------|--|--|--|--|
| .E: | SHEET                                                                                       | OF | SHEETS | STA. | TO STA. |  |  |  |  |

| F.A.S.<br>RTE. | SECTION                        |            | COUNTY    | TOTAL<br>SHEETS | SHEET<br>NO. |
|----------------|--------------------------------|------------|-----------|-----------------|--------------|
| 1412           | [106BC-1;108(C,(VB,VC)NRS)]BRR |            | HENDERSON | 81              | 31           |
|                |                                | CONTRACT   | NO. 68.   | J12             |              |
|                | 11111010                       | D DDO JEOT |           |                 |              |





#### **LEGEND**

WORK AREA

SIGN

DRUM

TEMPORARY RUMBLE STRIP

TEMPORARY CONCRETE BARRIER

IMPACT ATTENUATOR (NON- REDIRECTIVE, NARROW), TEST LEVEL 3

TEMPORARY TRAFFIC SIGNAL

DOUBLE VERTICAL PANEL (SEE DETAIL)

TYPE III BARRICADEWITH FLASHING LIGHTS

#### **NOTES**

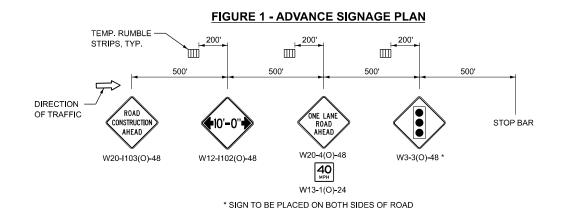
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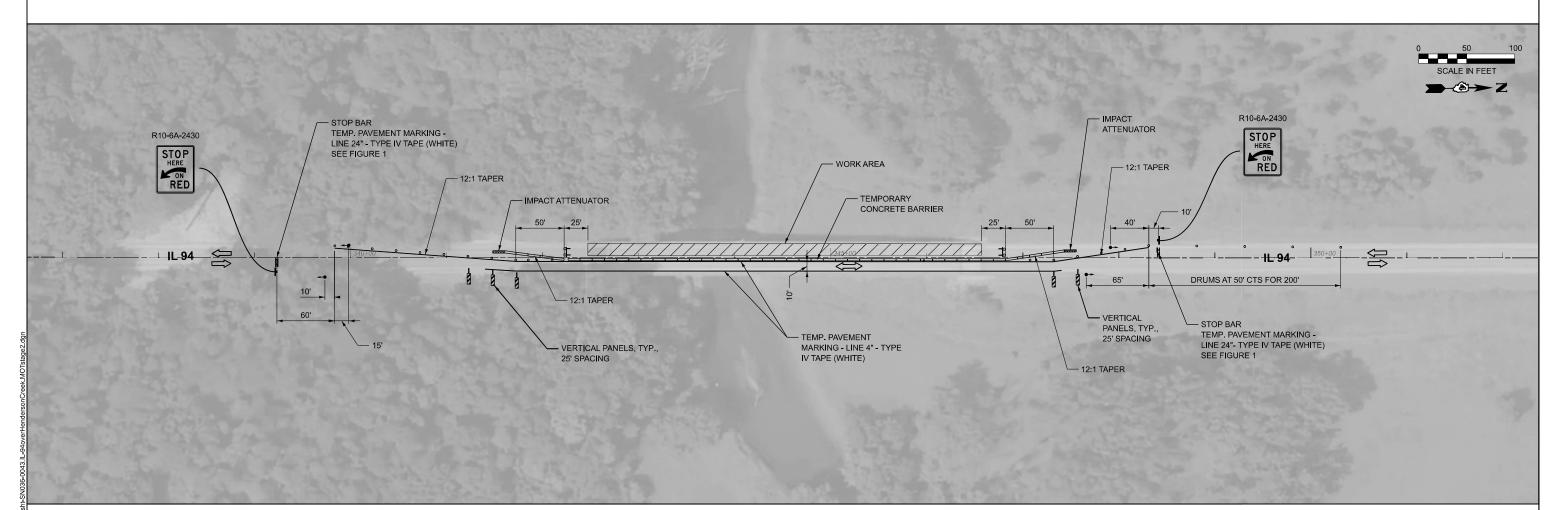
|   | GR@EF                               |
|---|-------------------------------------|
|   | GRØEF                               |
| i | 8501W. Higgins Road; Suite 280      |
| - | Chicago, Miñois 60634 (773) 399-002 |

|    | USER NAME = 2189     | DESIGNED - | REVISED - |
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|    |                      | DRAWN -    | REVISED - |
|    |                      | CHECKED -  | REVISED - |
| 12 | PLOT DATE = 5/8/2025 | DATE -     | REVISED - |

| SUGGESTED MAINTENANCE OF TRAFFIC PLAN - STAGE 1<br>SN 036-0043 IL-94 OVER HENDERSON CREEK |       |    |        |      |         |  |
|-------------------------------------------------------------------------------------------|-------|----|--------|------|---------|--|
| SCALE:                                                                                    | SHEET | OF | SHEETS | STA. | TO STA. |  |

| F.A.S.<br>RTE. |                                   |         |           | COUNTY  | TOTAL<br>SHEETS | SHEET<br>NO. |
|----------------|-----------------------------------|---------|-----------|---------|-----------------|--------------|
| 1412           | 12 [106BC-1;108(C,(VB,VC)NRS)]BRR |         | HENDERSON | 81      | 32              |              |
|                |                                   |         | CONTRACT  | NO. 68. | J12             |              |
|                | 11                                | LINIOIS | EED AII   | DPOJECT |                 |              |





#### **LEGEND**

WORK AREA

SIGN

DRUM

TEMPORARY RUMBLE STRIP

TEMPORARY CONCRETE BARRIER

IMPACT ATTENUATOR (NON- REDIRECTIVE, NARROW), TEST LEVEL 3

TEMPORARY TRAFFIC SIGNAL

DOUBLE VERTICAL PANEL (SEE DETAIL)

TYPE III BARRICADEWITH FLASHING LIGHTS

#### **NOTES**

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| GR@EF                               |
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| Ghaler                              |
| 8501 W. Higgins Road; Suite 280     |
| Chicago, Miñois 6063k (773) 399-002 |

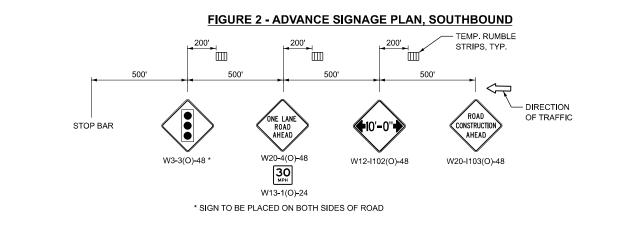
| USER NAME = 2189     | DESIGNED - | REVISED - |
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| PLOT DATE = 5/8/2025 | DATE -     | REVISED - |

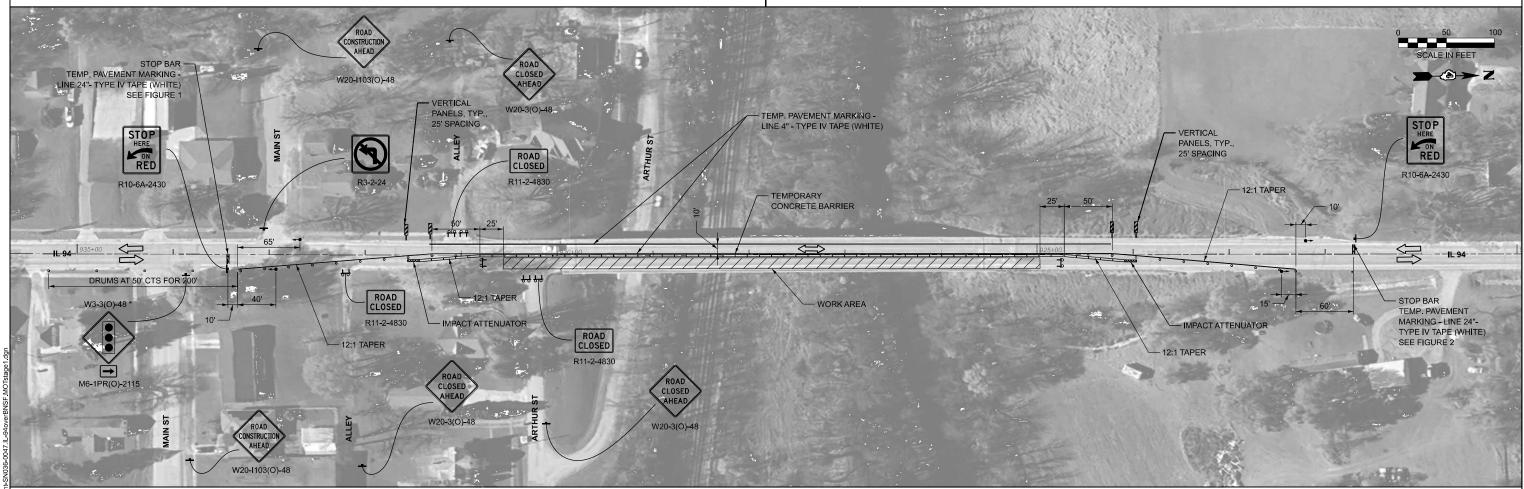
**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION** 

|        |       |    |        |      | IC PLAN - STAGE 2<br>SON CREEK |
|--------|-------|----|--------|------|--------------------------------|
| SCALE: | SHEET | OF | SHEETS | STA. | TO STA.                        |

SECTION COUNTY 1412 [106BC-1;108(C,(VB,VC)NRS)]BRR HENDERSON 81 33 CONTRACT NO. 68J12

#### FIGURE 1 - ADVANCE SIGNAGE PLAN, NORTHBOUND DIRECTION — OF TRAFFIC STOP BAR W20-4(O)-48 W20-I103(O)-48 W12-I102(O)-48 30 MPH W13-1(O)-24 \* SIGN TO BE PLACED ON BOTH SIDES OF ROAD





#### **LEGEND**

WORK AREA

SIGN

DRUM

TEMPORARY RUMBLE STRIP

TEMPORARY CONCRETE BARRIER

TEST LEVEL 3

IMPACT ATTENUATOR (NON- REDIRECTIVE, NARROW),

TEMPORARY TRAFFIC SIGNAL

DOUBLE VERTICAL PANEL (SEE DETAIL)

TYPE III BARRICADEWITH FLASHING LIGHTS

#### **NOTES**

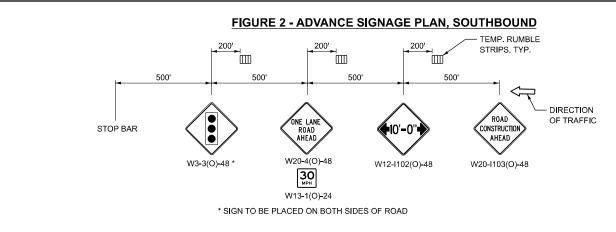
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- THE RESIDENT ENGINEER AND CONTRACTOR SHALL VERIFY DIMENSIONS AND MAKE FIELD ADJUSTMENTS TO CONSTRUCTION LAYOUT AND MAINTENANCE OF TRAFFIC WHERE NECESSARY DUE TO SPACE CONTRAINTS WITHOUT COMPROMISING ON PUBLIC SAFETY.

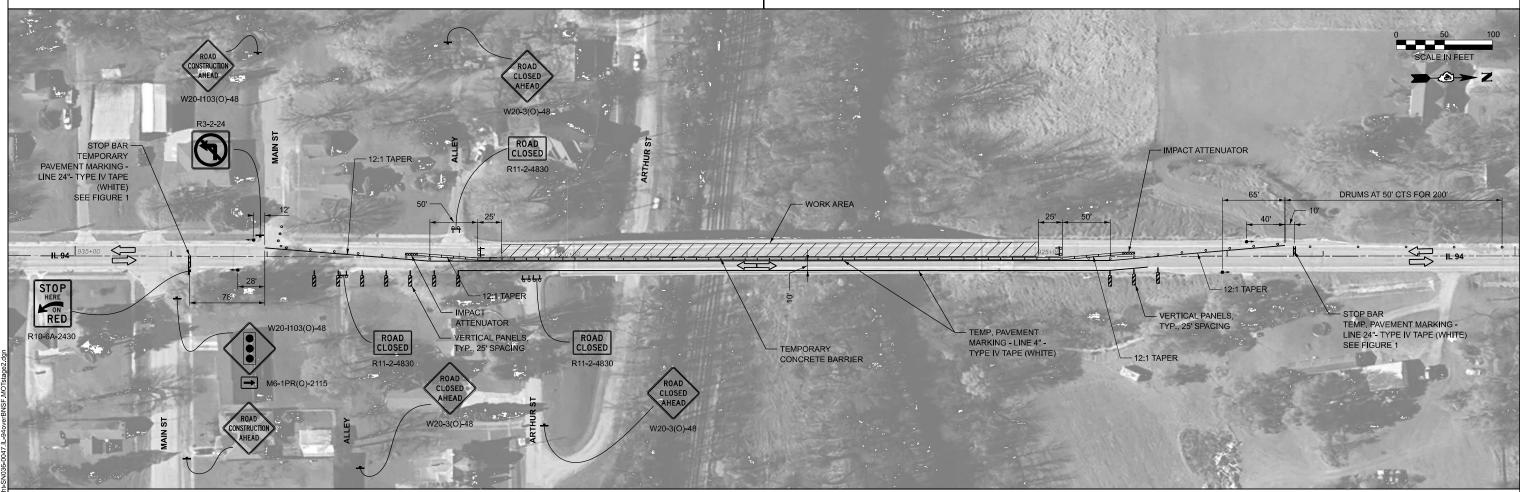
| יייייייייייייייייייייייייייייייייייייי | GRaEF                                                                   |
|----------------------------------------|-------------------------------------------------------------------------|
| 1                                      | 8501 W. Higgins Road; Suite 280<br>Chicago, Minois 60631; (773) 399-002 |

| USER NAME = 2189     | DESIGNED - | REVISED - |
|----------------------|------------|-----------|
|                      | DRAWN -    | REVISED - |
|                      | CHECKED -  | REVISED - |
| PLOT DATE = 5/8/2025 | DATE -     | REVISED - |

| SUGGESTED MAINTENANCE OF TRAFFIC PLAN - STAGE 1 |       |    |        |      | F.A.S.<br>RTE                  | SECTION   | COUNTY            | TOTAL<br>SHEETS | SHEET<br>NO. |  |
|-------------------------------------------------|-------|----|--------|------|--------------------------------|-----------|-------------------|-----------------|--------------|--|
| SN 036-0047 IL-94 OVER BNSF                     |       |    |        | 1412 | [106BC-1;108(C,(VB,VC)NRS)]BRR | HENDERSON | 81                | 34              |              |  |
| 3N 030-0047 IL-34 OVER BNSF                     |       |    |        |      |                                | CONTRACT  | NO. 68.           | J12             |              |  |
| SCALE:                                          | SHEET | OF | SHEETS | STA. | TO STA.                        |           | ILLINOIS FED. AID | PROJECT         |              |  |

# PIGURE 1 - ADVANCE SIGNAGE PLAN, NORTHBOUND 200' 200' 200' 200' 200' 200' 300 STOP BAR W20-I103(O)-48 W12-I102(O)-48 W20-4(O)-48 W3-3(O)-48\* \* SIGN TO BE PLACED ON BOTH SIDES OF ROAD





#### **LEGEND**

WORK AREA

O DRUM

► SIGN

TEMPORARY RUMBLE STRIP

TEMPORARY CONCRETE BARRIER

IMPACT ATTEN
TEST LEVEL 3

IMPACT ATTENUATOR (NON- REDIRECTIVE, NARROW),

TEMPORARY TRAFFIC SIGNAL

DOUBLE VERTICAL PANEL (SEE DETAIL)

TYPE III BARRICADEWITH FLASHING LIGHTS

#### **NOTES**

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| יייייייייייייייייייייייייייייייייייייי | GR <b>@</b> EF                                                          |
|----------------------------------------|-------------------------------------------------------------------------|
| 1                                      | 8501 W. Higgins Road; Suite 280<br>Chicago, Winois 60631; (773) 399-002 |

| USER NAME = 2189     | DESIGNED - | REVISED - |
|----------------------|------------|-----------|
|                      | DRAWN -    | REVISED - |
|                      | CHECKED -  | REVISED - |
| PLOT DATE = 5/8/2025 | DATE -     | REVISED - |

## STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

|                             |                             |    |        |     | F.A.S.<br>RTE | SECTION |                           | COUNTY          | TOTAL<br>SHEETS | SHEET<br>NO. |     |
|-----------------------------|-----------------------------|----|--------|-----|---------------|---------|---------------------------|-----------------|-----------------|--------------|-----|
| SN 036-0047 IL-94 OVER BNSF |                             |    |        |     |               | 1412    | [106BC-1;108(C,(VB,VC)NRS | )]BRR           | HENDERSON       | 81           | 35  |
|                             | ON USU-UST IL-ST OVER DINSI |    |        |     |               |         |                           | CONTRACT NO. 68 |                 |              | J12 |
| CALE:                       | SHEET                       | OF | SHEETS | STA | TO STA        |         | II INOIS I                | EED AID         | DDOJECT         |              |     |

Existing Description: SN 036-0041 was originally built in 1988. The structure has a back-to-back length of 95'-0" and an out-to-out width of 33'-2". The superstructure consists of a 7½"thick reinforced concrete slab supported on single span 54"PPC I-beam superstructure of span length 92'-6". The substructure consists of reinforced concrete integral

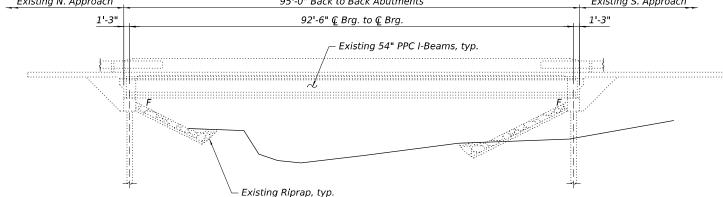
abutments supported on metal shell piles.

<u>~</u>Z-

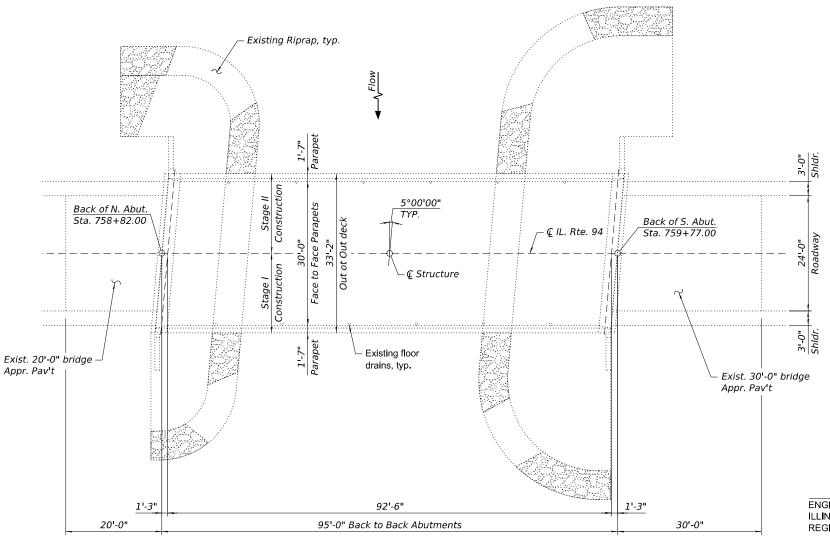
Traffic will be maintained utilizing stage construction.

No Salvage.

Existing N. Approach 95'-0" Back to Back Abutments Existing S. Approach



#### **ELEVATION**



) 081-005750 LICENSED STRUCTURAL ENGINEER OF

ENGINEER FULL NAME: SCOTT HINRICHS DATE: 05-02-2025 ILLINOIS REGISTERED ENGINEER NO. 081-005750 REGISTRATION EXPIRES 11, 30, 2026

SHEET 1 OF 5 SHEETS

#### LOADING HS20-44

Existing and Proposed

#### **DESIGN SPECIFICATIONS**

1983, 1984 and 1985 AASHTO Standard Specifications with 1986 Interims

#### **DESIGN STRESSES**

#### FIELD UNITS (EXIST. CONST.)

 $fc = 3,500 \ psi$ fy = 60,000 psi (Reinforcement)f'c = 6,000 psi (PPC I-Beams) f'ci = 5,000 psi (PPC I-Beams) f's = 270,000 psi (½"  $\emptyset$  Strands) f'si = 189,000 psi (½"  $\oslash$  Strands)

#### FIELD UNITS (PROP. CONST.)

 $f^{*}c = 4,000 \text{ psi}$ fy = 60,000 psi (Reinforcement)

## Range 4W, 4th P.M. Structure Location LOCATION SKETCH

GENERAL PLAN & ELEVATION ILL. RTE. 94 OVER JINKS HOLLOW CREEK S.B.I. RTE. 94 HENDERSON COUNTY **STRUCTURE NO. 036-0041** 

#### PLAN

| GR@EF                                  |
|----------------------------------------|
| 850I W. Higgins Road: Suite 280        |
| Chicago, Illinois 60631: (773) 399-012 |

| USER NAME =  | DESIGNED | - | JTB | REVISED | - |
|--------------|----------|---|-----|---------|---|
|              | CHECKED  | - | CG  | REVISED | - |
| PLOT SCALE = | DRAWN    | - | DCP | REVISED | - |
| PLOT DATE =  | CHECKED  | - | SH  | REVISED | - |

#### **GENERAL NOTES:**

- Plan dimensions and details relative to the existing structure have been taken from existing plans and 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.
- 2. The protective coat shall be applied to the top of the Microsilica Concrete Overlay after deck overlay has properly cured.
- 3. The protective coat (Special) shall be applied to all surfaces of the parapets. See detail on sheet 5 of 5.
- 4. Surface Filler (Special) shall be applied according to Special Provisions.
- 5. The void beneath the west shoulder of the south approach slab shall be filled with Controlled Low-Strength Material (CLSM) per the direction of the Engineer.
- 6. The minimum thickness of concrete overlay shall be 2¼" and varies as required to adjust for the existing profile grade and beam camber.

#### **INDEX OF SHEETS**

- 1. General Plan & Elevation
- 2. General Data
- 3. Stage Construction Details
- 4. Temporary Concrete Barrier
- 5. Deck Overlay Plan.

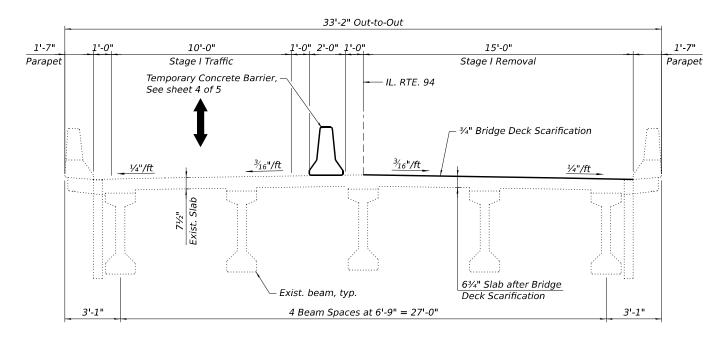
#### SCOPE OF WORK

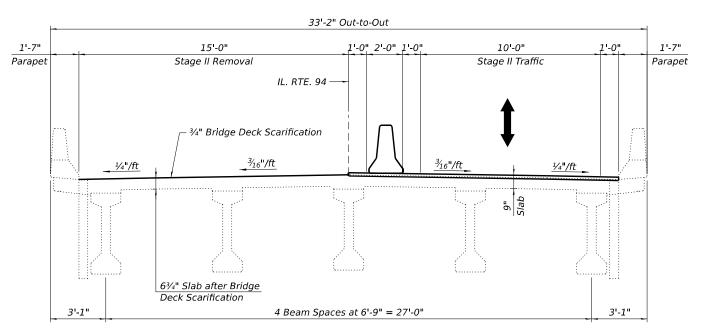
- 1. Scarify ¾" from the bridge deck and approach slabs.
- 2. Apply a 2½" Microsilica concrete overlay on the bridge deck and approach slabs.
- 3. Perform Bridge Deck Grooving on the deck and approach slabs within the traffic lanes.
- 4. Apply Protective Coat to the surface of the new overlay.
- 5. Apply Protective Coat (Special) and Surface Filler (Special) to all faces of the parapets.
- 6. Fill void beneath the west shoulder of the south approach slab with Controlled Low-Strength Material.
- 7. Perform Concrete Polymer edge at the end south and north approach slabs.

#### TOTAL BILL OF MATERIAL

| ITEM                                                       | UNIT   | SUPER | SUB | TOTAL |
|------------------------------------------------------------|--------|-------|-----|-------|
| Bridge Deck Grooving                                       | Sq Yd  | 387   | -   | 387   |
| Protective Coat                                            | Sq Yd  | 466   | -   | 466   |
| Controlled Low-Strength Material                           | Cu Yd  | -     | 1   | 1     |
| Surface Filler (Special)                                   | Gallon | 1     | -   | 1     |
| Protective Coat (Special)                                  | Sq Yd  | 135   | -   | 135   |
| Bridge Deck Scarification 3/4"                             | Sq Yd  | 466   | -   | 466   |
| Bridge Deck Microsilica Concrete<br>Overlay, 2 1/4" Inches | Sq Yd  | 466   | -   | 466   |
| Polymer Concrete                                           | Cu Ft  | 2.9   | -   | 2.9   |

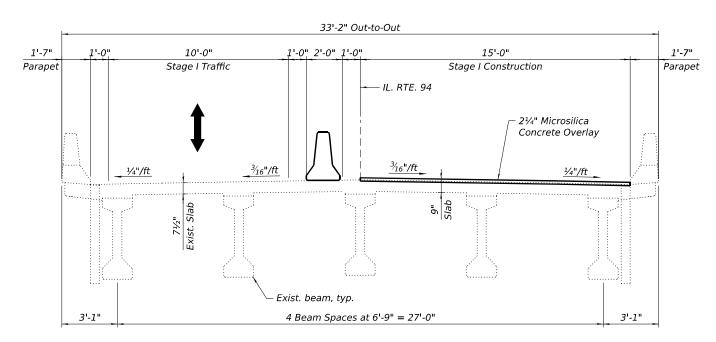
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|              | CHECKED -  | CG  | REVISED - | ĺ |
| PLOT SCALE = | DRAWN -    | DCP | REVISED - | ı |
| PLOT DATE =  | CHECKED -  | SH  | REVISED - | ı |





#### STAGE I REMOVAL

(Looking South)



# STAGE II REMOVAL (Looking South)

33'-2" Out-to-Out 1'-7" 15'-0" 1 -0" 2 -0" 1 -0" 10'-0" 1'-7" Stage II Construction Parapet Stage II Traffic Parapet IL. RTE. 94 -- 2⅓" Microsilica Concrete Overlay <sup>3</sup>/<sub>16</sub>"/ft <u>³⁄16"/ft</u> ½"/ft ½"/ft 3'-1" 4 Beam Spaces at 6'-9" = 27'-0" 3'-1"

#### STAGE I CONSTRUCTION

(Looking South)

#### STAGE II CONSTRUCTION

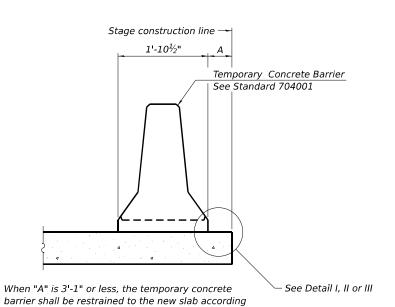
(Looking South)

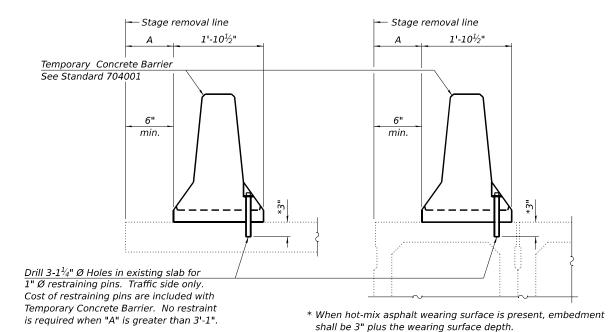
GR@EF

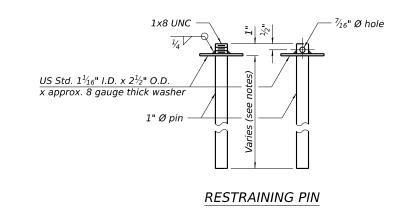
8501 W. Higgins Road; Suite 280
Chicago, Minois 6063; (773) 399-012

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| PLOT SCALE = | DRAWN - DCP    | REVISED - |
| PLOT DATE =  | CHECKED - SH   | REVISED - |

| STAGE CONSTRUCTION DETAILS<br>STRUCTURE NO. 036-0041 |  | SECTION                                   | COUNTY         | TOTAL<br>SHEETS | SHEET<br>NO. |
|------------------------------------------------------|--|-------------------------------------------|----------------|-----------------|--------------|
|                                                      |  | 94 [106BC-1;108(C,(VB,VC)NRS)]BRR HENDERS |                | 81              | 38           |
|                                                      |  |                                           | CONTRAC        | T NO. 6         | 8J12         |
| SHEET 3 OF 5 SHEETS                                  |  | ILLINOIS FE                               | D. AID PROJECT |                 |              |







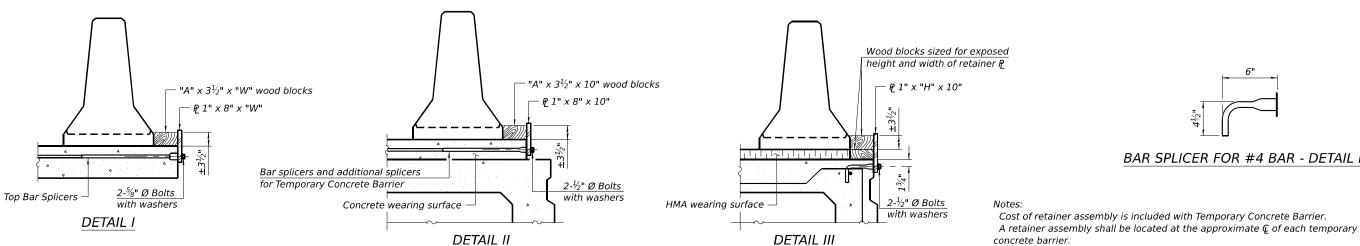
#### NEW SLAB OR NEW DECK BEAM

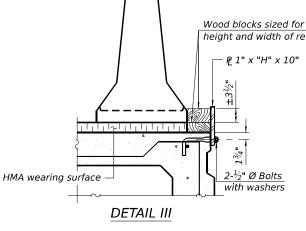
to Detail I, II or III. No restraint is required

when "A" is greater than 3'-1".

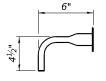
#### SECTIONS THRU SLAB OR DECK BEAM

EXISTING SLAB





EXISTING DECK BEAM



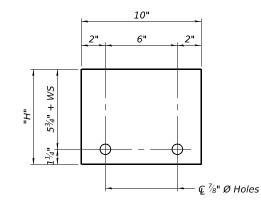
#### BAR SPLICER FOR #4 BAR - DETAIL III

#### 10" Detail II Top bars Spa. 2" Detail I Detail II

"W"

Detail I

€ 7/8" Ø Holes



STEEL RETAINER P 1" x "H" x 10"

(Detail III)

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

the shear key clamping device.

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.

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  $1\frac{1}{2}$ ", 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

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 Railing Weight (plf) 440

R-27 5-15-2023

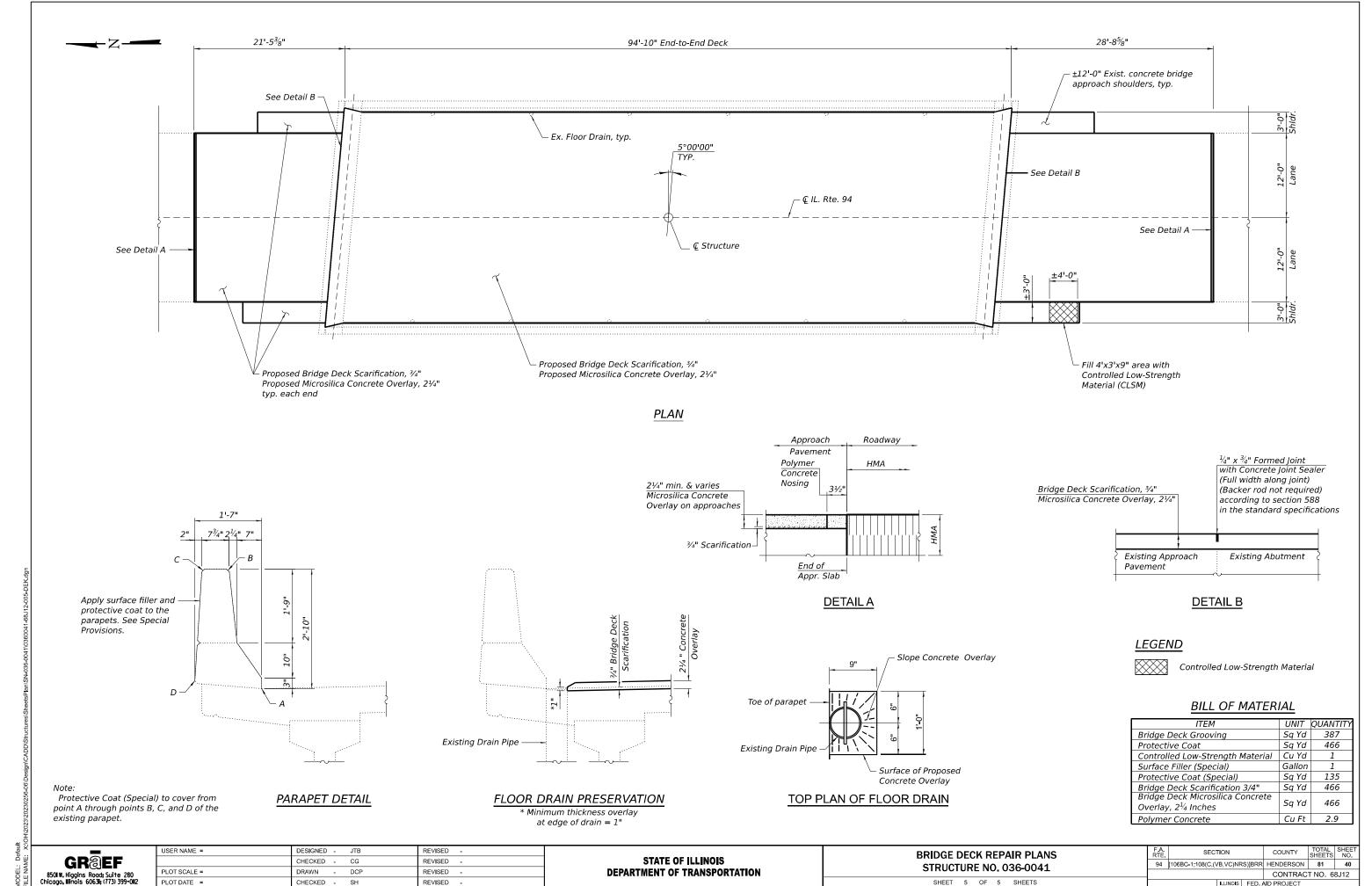
## STEEL RETAINER P 1" x 8" x "W"

(Detail I and II)

| USER NAME =  | DESIGNED - | JTB | REVISED - | Γ |
|--------------|------------|-----|-----------|---|
|              | CHECKED -  | CG  | REVISED - | l |
| PLOT SCALE = | DRAWN -    | DCP | REVISED - | 1 |
| PLOT DATE =  | CHECKED -  | SH  | REVISED - | l |

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION** 

| TEMPORARY CONCRETE BARRIER<br>STRUCTURE NO. 036-0041 |  | SECTION                       | COUNTY      | TOTAL<br>SHEETS | SHEET<br>NO. |
|------------------------------------------------------|--|-------------------------------|-------------|-----------------|--------------|
|                                                      |  | [106BC-1;108(C,(VB,VC)NRS)]BR | HENDERSON   | 81              | 39           |
|                                                      |  |                               | CONTRAC     | T NO. 6         | 8J12         |
| SHEET 4 OF 5 SHEETS                                  |  | ILLINOIS FED                  | AID PROJECT |                 |              |

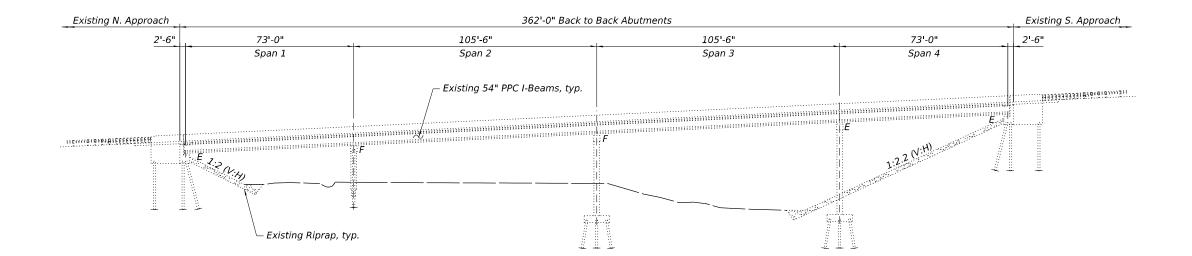


6/26/2025 9:23:54 AM

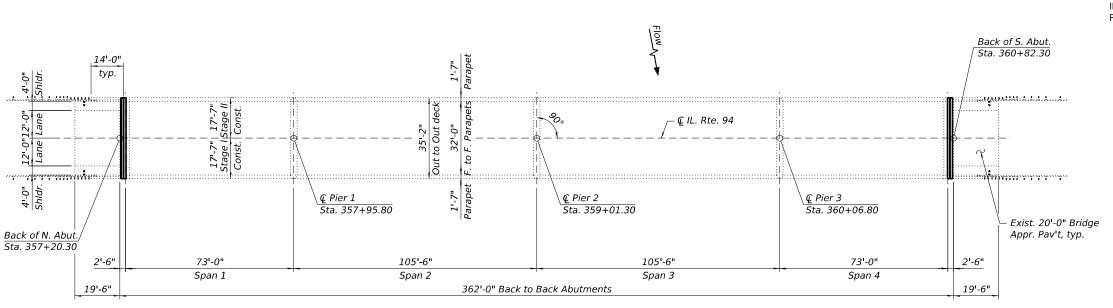
Existing Description: SN 036-0043 was originally built in 1991. Scour countermeasures were installed at the bridge in 2001. The structure has a back-to-back length of 362'-0" and an out-to-out width of 35'-2". The superstructure consists of a 7½"thick reinforced concrete slab supported on four-span continuous 54" PPC I-beams of span lengths 73'-0, 105-6", 105-6"and 73'-0". The substructure consists of reinforced concrete abutments and solid wall piers supported on steel h-piles.

Traffic will be maintained utilizing stage construction.

No salvage.



#### **ELEVATION**



#### PLAN

#### LOADING HS20-44

Existing and Proposed

#### **DESIGN SPECIFICATIONS**

1989 AASHTO Standard Specifications with 1983 Seismic Guidelines

## **DESIGN STRESSES**

#### FIELD UNITS (EXIST. CONST.)

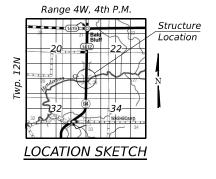
 $f^{*}c = 3,500 \ psi$ fy = 60,000 psi (Reinforcement)f'c = 6,000 psi (PPC I-Beams) f'ci = 4,300 psi (PPC I-Beams) f's = 270,000 psi (½"  $\oslash$  Strands) f'si = 189,000 psi (½"  $\oslash$  Strands)

#### FIELD UNITS (PROP. CONST.)

 $f^{1}c = 4,000 \text{ psi}$ fy = 60,000 psi (Reinforcement)



ENGINEER FULL NAME: SCOTT HINRICHS DATE: 05-02-2025 ILLINOIS REGISTERED ENGINEER NO. 081-005750 REGISTRATION EXPIRES 11, 30, 2026



GENERAL PLAN & ELEVATION F.A.S. RTE. 1412 (ILL. RTE.94) OVER HENDERSON CREEK HENDERSON COUNTY **STRUCTURE NO. 036-0043** 

SHEET 1 OF 17 SHEETS

| USER NAME =  | DESIGNED | - | JTB | REVISED | - |
|--------------|----------|---|-----|---------|---|
|              | CHECKED  | - | CG  | REVISED | - |
| PLOT SCALE = | DRAWN    | - | DCP | REVISED | - |
| PLOT DATE =  | CHECKED  | - | SH  | REVISED | - |

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION** 

| A.<br>RTE. | SEC                            | ΓΙΟΝ |             | COUNTY    | TOTAL<br>SHEETS | SHEET<br>NO. |
|------------|--------------------------------|------|-------------|-----------|-----------------|--------------|
| 94         | [106BC-1;108(C,(VB,VC)NRS)]BRR |      |             | HENDERSON | 81              | 41           |
|            |                                |      |             | CONTRAC   | T NO. 6         | 8J12         |
|            |                                |      | ID DDO IEOT |           |                 |              |

#### **GENERAL NOTES:**

- 1. 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 detrimental foreign material shall be removed from the surfaces in contact with concrete (SSPCSP3 standards). 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 paid for according to Article 109.04 of the Standard Specifications. As directed by the Engineer, existing construction accessories welded to the top flange of beams and girders 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 ¼ 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.
- 3. Plan dimensions and details relative to the existing structure have been taken from existing plans and 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.
- 4. Existing reinforcement bars extending into the removal area shall be cleaned, straightened, and incorporated into the new construction. Any reinforcement bars that are damaged during concrete removal shall be replaced with an approved bar splicer or anchorage system at the contractor's expense.
- The Contractor shall use extreme care during concrete removal so as not to damage the PPC I-Beam.
- Joint openings shall be adjusted according to Article 520.04 of the Std. Specs. when the deck is poured at an ambient temperature other than 50°F.
- 7. The protective coat shall be applied to the top of the Microsilica Concrete Overlay after deck overly has properly cured.
- 3. The protective coat (Special) shall be applied to all surfaces of the parapets.
- 9. Surface Filler (Special) shall be applied according to Special Provisions.
- 10. The voids beneath the east and west shoulder of the north approach slab shall be filled with Controlled Low-Strength Material (CLSM) per the direction of the Engineer.
- 11. The minimum thickness of concrete overlay shall be 2¼" and varies as required to adjust for the existing profile grade and beam camber.
- 12. The steel components of all expansion bearings at the abutments shall be blasted and painted according to the Special Provision "Cleaning and Painting Bearings. All bearings shall be cleaned per Near White Blast Cleaning (SSPC-SP10). The designated areas cleaned per Near White Blast Cleaning (SSPC-SP10) shall be painted according to the requirements of Organic Zinc-Rich Epoxy/Urethane. The color of the final finish coat for all steel surfaces shall be Gray, Munsell No. 5B 7/1.
- 13. Containment of cleaning residue is required to control nuisance dust. See special provisions.
- 14. See Special Provisions for "FRP Strengthening for PPC I-Beam Repairs".
- 15. See Special Provisions for "Precast Prestressed Concrete I-Beam Repair".
- 16. Acrylic coating shall be placed over Fiber Wrap repairs.

#### **INDEX OF SHEETS**

- 1. General Plan and Elevation
- 2. General Data
- 3. Stage Construction Details
- Temporary Concrete Barrier
   Bridge Deck Repairs Plan.
- 6. Drainage Adjustment Details
- 7. East Parapet Repairs
- 8. West Parapet Repairs
- 9-10. North Abutment Expansion Joint Details I & II
- 11-12. South Abutment Expansion Joint Details I & II
- 13. Preformed Joint Strip Seal
- 14. Framing Plan and PPC I-Beam Repairs
- 15. Bearing Details
- 16. Bar Splicer Assembly and Mechanical Splicer Details
- 17. Existing Plans Reference Sheet

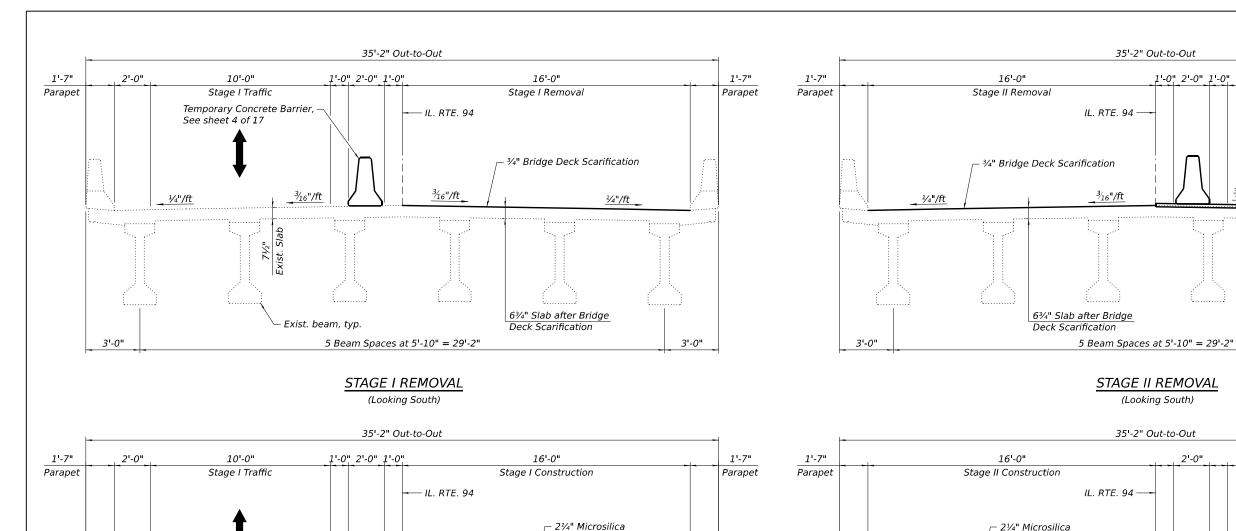
#### SCOPE OF WORK

- 1. Scarify ¾" from the bridge deck and approach slabs.
- Remove and reconstruct expansion joints at north and south abutments, and install new Preformed Joint Strip Seals.
- Adjust drainage inlets.
- 4. Apply a 2¼" Microsilica concrete overlay on the bridge deck and approach slabs.
- 5. Perform Bridge Deck Grooving on traffic lanes.
- 6. Perform concrete repairs of the bridge parapets.
- 7. Apply Protective Coat to the reconstructed transverse expansion joints and to the top of the Microsilica Concrete Overlay.
- 8. Apply Protective Coat (Special) and Surface Filler (Special) to all faces of the parapets.
- 9. Fill voids beneath the east and west shoulders of the north approach slab with Controlled Low-Strength Material (CLSM).
- 10. Cleaning and Painting Bearings at north and south abutments.
- Precast prestressed concrete I-beam repair followed by fiber wrap repair of all spalling, delamination, or failed existing beam repairs beyond the front face of the bearing of PPC Beams.

#### TOTAL BILL OF MATERIAL

| ITEM                                           | UNIT   | SUPER | SUB | TOTAL |
|------------------------------------------------|--------|-------|-----|-------|
| Concrete Removal                               | Cu Yd  | 6.3   | -   | 6.3   |
| Concrete Superstructure                        | Cu Yd  | 7.3   | -   | 7.3   |
| Bridge Deck Grooving                           | Sq Yd  | 1,053 | -   | 1,053 |
| Protective Coat                                | Sq Yd  | 1,428 | -   | 1,428 |
| Reinforcement Bars, Epoxy Coated               | Pound  | 980   | -   | 980   |
| Bar Splicers                                   | Each   | 12    | -   | 12    |
| Preformed Joint Strip Seal                     | Foot   | 68    | -   | 68    |
| Controlled Low-Strength Material               | Cu Yd  | -     | 14  | 14    |
| Inlet to be Adjusted                           | Each   | 4     | -   | 4     |
| Acylic Coating                                 | Sq Yd  | 16    | -   | 16    |
| FRP Strengthening for PPC I-Beam Repairs       | Sq Ft  | 143   | -   | 143   |
| Surface Filler (Special)                       | Gallon | 1     | -   | 1     |
| Protective Coat (Special)                      | Sq Yd  | 535   | -   | 535   |
| Cleaning and Painting Bearings                 | Each   | 12    | -   | 12    |
| Bridge Deck Scarification 3/4"                 | Sq Yd  | 1,411 | -   | 1,411 |
| Bridge Deck Microsilica Concrete Overlay 21/4" | Sq Yd  | 1,411 | -   | 1,411 |
| Precast Prestressed Concrete I-beam Repair     | Sq Ft  | 6     | -   | 6     |

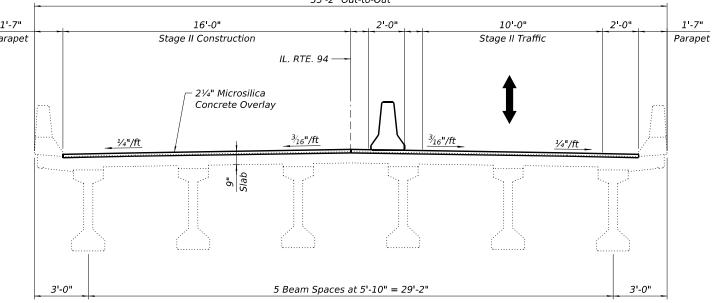
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Concrete Overlay

½"/ft

3'-0"



STAGE I CONSTRUCTION
(Looking South)

5 Beam Spaces at 5'-10" = 29'-2"

<sup>3</sup>∕<sub>16</sub>"/ft

*³*⁄<sub>16</sub>"/ft

1/4"/ft

STAGE II CONSTRUCTION
(Looking South)

|   | GR@EF                                   |
|---|-----------------------------------------|
|   | 8501 W. Higgins Road; Suite 280         |
| į | Chicago, Illinois 60631; (773) 399-0112 |

3'-0"

| USER NAME =  | DESIGNED - JTB | REVISED - |
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| PLOT DATE =  | CHECKED - SH   | REVISED - |

2'-11/2"

3'-0"

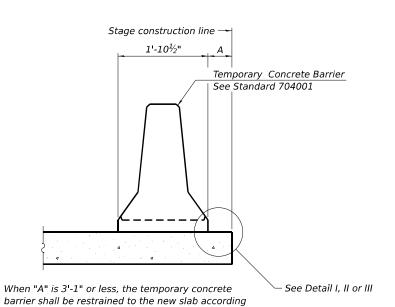
1'-7"

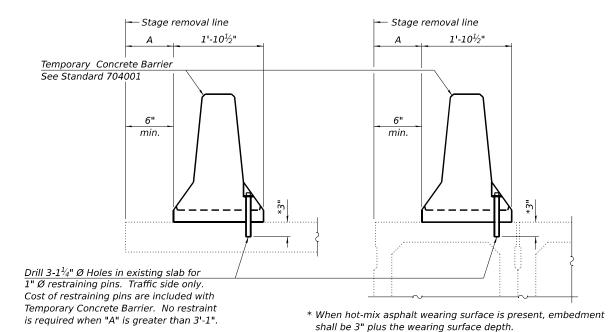
Parapet

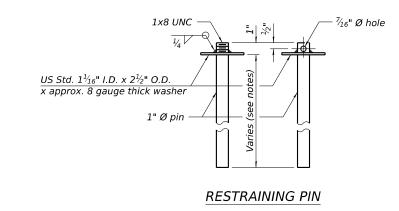
10'-0"

Stage II Traffic

½"/ft







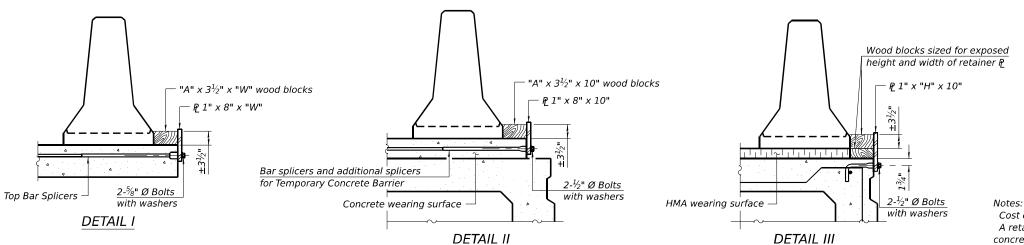
#### NEW SLAB OR NEW DECK BEAM

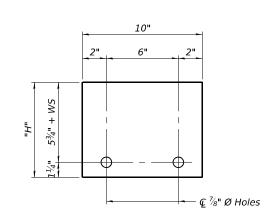
to Detail I, II or III. No restraint is required

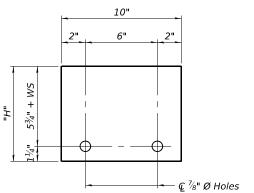
when "A" is greater than 3'-1".

EXISTING SLAB

#### SECTIONS THRU SLAB OR DECK BEAM







STEEL RETAINER P 1" x "H" x 10"

(Detail III)

EXISTING DECK BEAM

Cost of retainer assembly is included with Temporary Concrete Barrier. A retainer assembly shall be located at the approximate  $\mathcal C$  of each temporary concrete barrier.

BAR SPLICER FOR #4 BAR - DETAIL III

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  $1\frac{1}{2}$ ", 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.

## 10" Detail II 2" Top bars Spa. 2" Detail I Detail II € 7/8" Ø Holes

STEEL RETAINER P 1" x 8" x "W"

(Detail I and II)

"W"

Detail I

#### RAILING CRITERIA

| NCHRP 350 Test Level | 3   |
|----------------------|-----|
| Railing Weight (plf) | 440 |

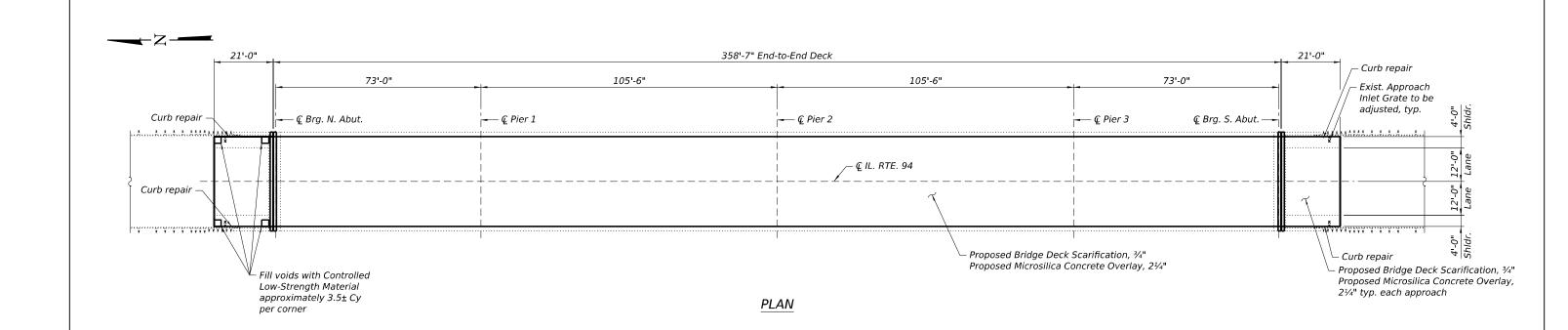
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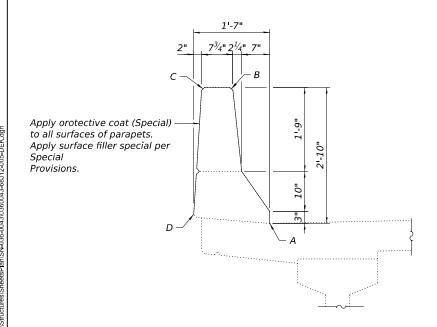
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STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**  TEMPORARY CONCRETE BARRIER SECTION COUNTY 94 [106BC-1;108(C,(VB,VC)NRS)]BRR HENDERSON 81 44 **STRUCTURE NO. 036-0043** CONTRACT NO. 68J12 SHEET 4 OF 17 SHEETS





PARAPET DETAIL

#### Notes:

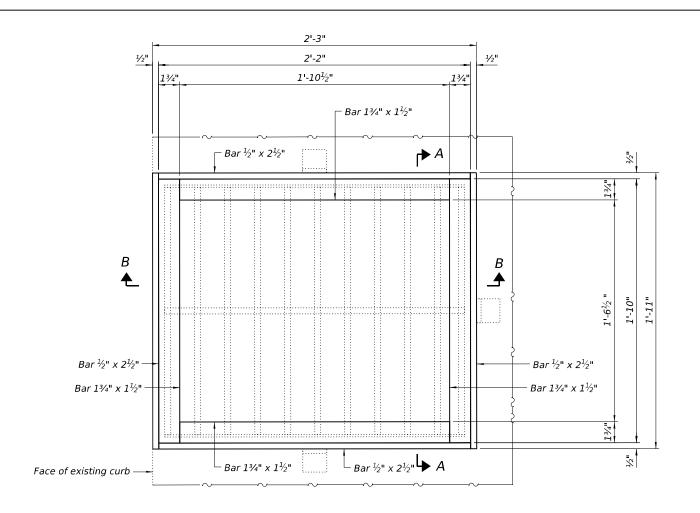
- 1. See Sheet 6 of 17 for drainage adjustment details.
- 2. Fill voids below approach slab prior to bridge deck scarification and microsilica concrete overlay.
- Bridge approach scarification and bridge approach microsilica concrete overlay included in bridge deck scarification and microsilica concrete overlay.
- 4. Protective Coat (Special) to cover from point A through points B, C, and D of the parapet.

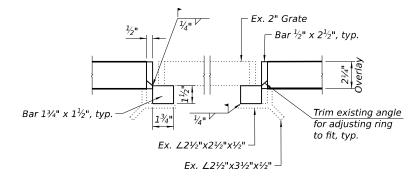
#### **BILL OF MATERIAL**

| ITEM                                                                              | UNIT   | QUANTITY |
|-----------------------------------------------------------------------------------|--------|----------|
| Concrete Superstructure                                                           | Cu Yd  | 0.6      |
| Bridge Deck Grooving                                                              | Sq Yd  | 1,053    |
| Protective Coat                                                                   | Sq Yd  | 1,428    |
| Inlet to be Adjusted                                                              | Each   | 4        |
| Controlled Low-Strength Material                                                  | Cu Yd  | 14       |
| Surface Filler (Special)                                                          | Gallon | 1        |
| Protective Coat (Special)                                                         | Sq Yd  | 535      |
| Bridge Deck Scarification 3/4"                                                    | Sq Yd  | 1,411    |
| Bridge Deck Microsilica Concrete<br>Overlay, 2 <sup>1</sup> ⁄ <sub>4</sub> Inches | Sq Yd  | 1,411    |

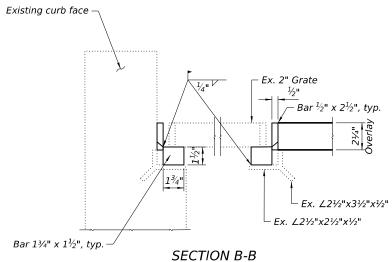
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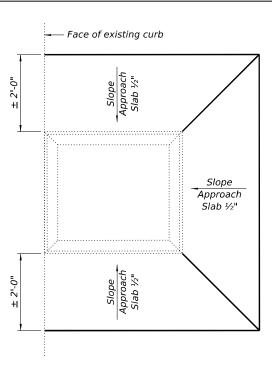
| F.A.<br>RTE. | SECTION                 | COUNTY      | TOTAL<br>SHEETS | SHEET<br>NO. |
|--------------|-------------------------|-------------|-----------------|--------------|
| 94           | 106BC-1;108(C,(VB,VC)NF | HENDERSON   | 81              | 45           |
|              |                         | CONTRAC     | T NO. 6         | 8J12         |
|              | ILLINOIS                | AID PROJECT |                 |              |





#### SECTION A-A





SLOPING PLAN

## APPROACH INLET PLAN

All structural steel shall be AASHTO M270 Grade 36. The adjusting inlet ring and adjusting scupper ring shall be galvanized. All dimensions shall be field measured, verified, and adjusted as appropriate prior to shop drawings preparation. Contractor shall mark red line as-built plans.

Shop drawings for proposed Steel & Frame Extension shall be submitted for approval prior to fabrication.

Contractor shall ensure that no damage is done to existing grates to be reused.

Cost of all labor and materials necessary to remove existing grates, install Steel & Frame Extensions and reinstall grates is included in the cost per unit each for Inlet to be Adjusted. Refer to Bridge Approach Pavement Drain Standard 2324

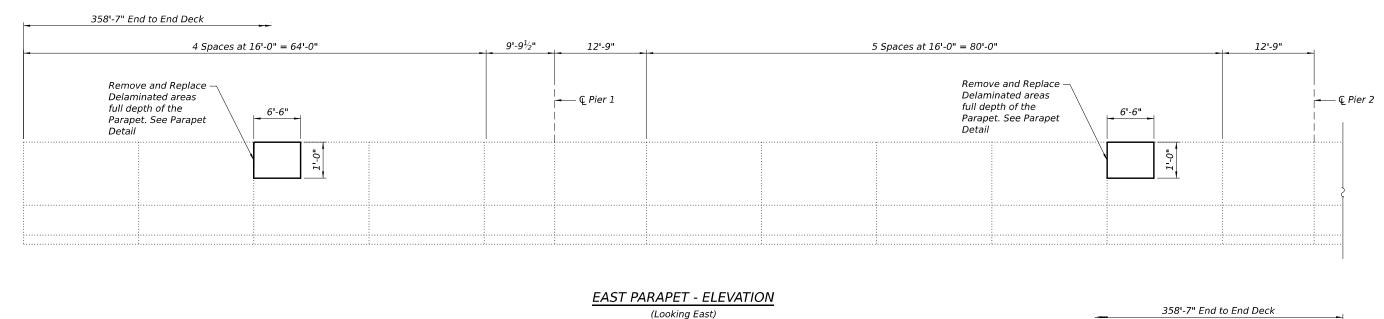
for existing details.

Contractor to provide new grates if existing are missing. Cost of new grates included in the cost per unit each for Inlet to be Adjusted.

GR@EF

| USER NAME =  | DESIGNED - JTB | REVISED - |
|--------------|----------------|-----------|
|              | CHECKED - CG   | REVISED - |
| PLOT SCALE = | DRAWN - DCP    | REVISED - |
| PLOT DATE =  | CHECKED - SH   | REVISED - |

| DRAINAGE ADJUSTMENT DETAILS<br>STRUCTURE NO. 036-0043 |  | SECTIO             | ON     |        | COUNTY     | TOTAL<br>SHEETS | SHEET<br>NO. |  |
|-------------------------------------------------------|--|--------------------|--------|--------|------------|-----------------|--------------|--|
|                                                       |  | [106BC-1;108(C,(VB | ,VC)NR | S)]BRR | HENDERSON  | 81              | 46           |  |
|                                                       |  |                    |        |        | CONTRAC    | T NO. 6         | 8J12         |  |
| SHEET 6 OF 17 SHEETS                                  |  | l II               | LINOIS | FED A  | ID PROJECT |                 |              |  |



(Looking East)

12'-9"

5 Spaces at 16'-0" = 80'-0"

12'-9"

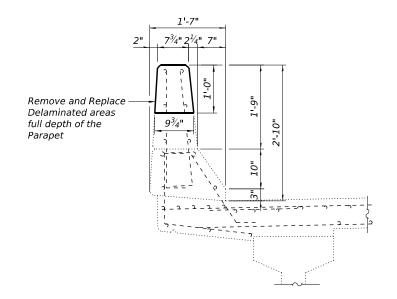
9'-9½"

4 Spaces at 16'-0" = 64'-0"

— © Pier 2

#### EAST PARAPET - ELEVATION

(Looking East)



#### PARAPET DETAIL

#### Notes:

 Quantities and limits shown are estimated for bidding purposes only. The actual areas to be repaired, and the type(s) of repairs to be used, will be determined by the engineer in the field at the time of construction.

#### LEGEND

Concrete Removal and Concrete Superstructure

#### **BILL OF MATERIAL**

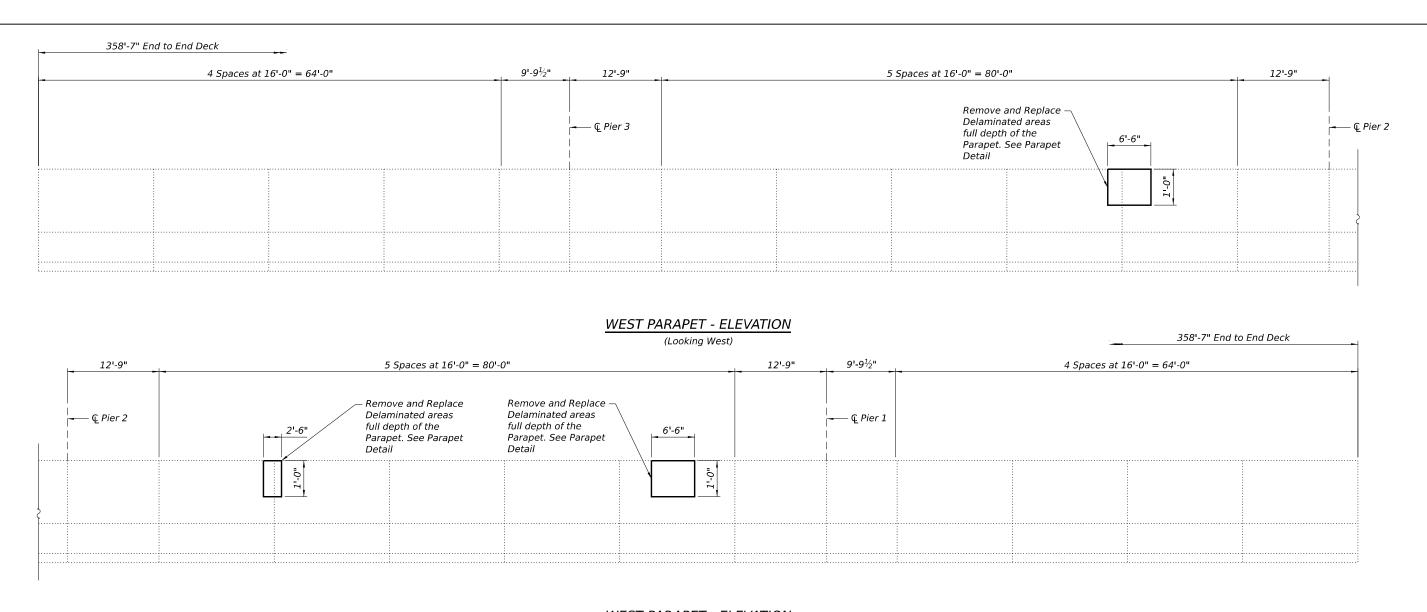
| ITEM                    | UNIT  | QUANTITY |
|-------------------------|-------|----------|
| Concrete Removal        | Cu Yd | 0.4      |
| Concrete Superstructure | Cu Yd | 0.4      |

GREF 8501 W. Higgins Road; Suite 280 Chicago, Minois 60634 (773) 399-012

| USER NAME =  | DESIGNED | - | JTB | REVISED | = |
|--------------|----------|---|-----|---------|---|
|              | CHECKED  | - | CG  | REVISED | = |
| PLOT SCALE = | DRAWN    | - | DCP | REVISED | = |
| PLOT DATE =  | CHECKED  | - | SH  | REVISED | - |

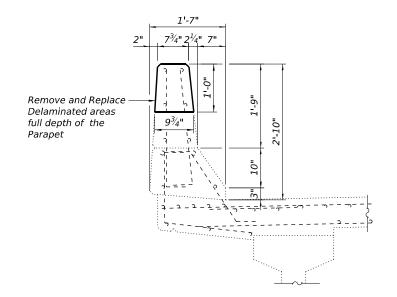
| EAST PARAPET REPAIRS   |   |    |    |        |  |    |     |
|------------------------|---|----|----|--------|--|----|-----|
| STRUCTURE NO. 036-0043 |   |    |    |        |  | 94 | [10 |
| 31RUCTURE NO. 030-0043 |   |    |    |        |  |    |     |
| SHEET                  | 7 | OF | 17 | SHEETS |  |    |     |

| F.A.<br>RTE | SECT               | ION      | COUNTY      | TOTAL<br>SHEETS | SHEET<br>NO. |      |
|-------------|--------------------|----------|-------------|-----------------|--------------|------|
| 94          | [106BC-1;108(C,(VI | B,VC)NF  | (S)]BRR     | HENDERSON       | 81           | 47   |
|             |                    |          |             | CONTRAC         | T NO. 6      | 8J12 |
|             |                    | ILLINOIS | AID PROJECT |                 |              |      |



#### WEST PARAPET - ELEVATION

(Looking West)



#### PARAPET DETAIL

#### Notes:

 Quantities and limits shown are estimated for bidding purposes only. The actual areas to be repaired, and the type(s) of repairs to be used, will be determined by the engineer in the field at the time of construction.

#### <u>LEGEND</u>

Concrete Removal and Concrete Superstructure

#### **BILL OF MATERIAL**

| ITEM                    | UNIT  | QUANTITY |
|-------------------------|-------|----------|
| Concrete Removal        | Cu Yd | 0.5      |
| Concrete Superstructure | Cu Yd | 0.5      |

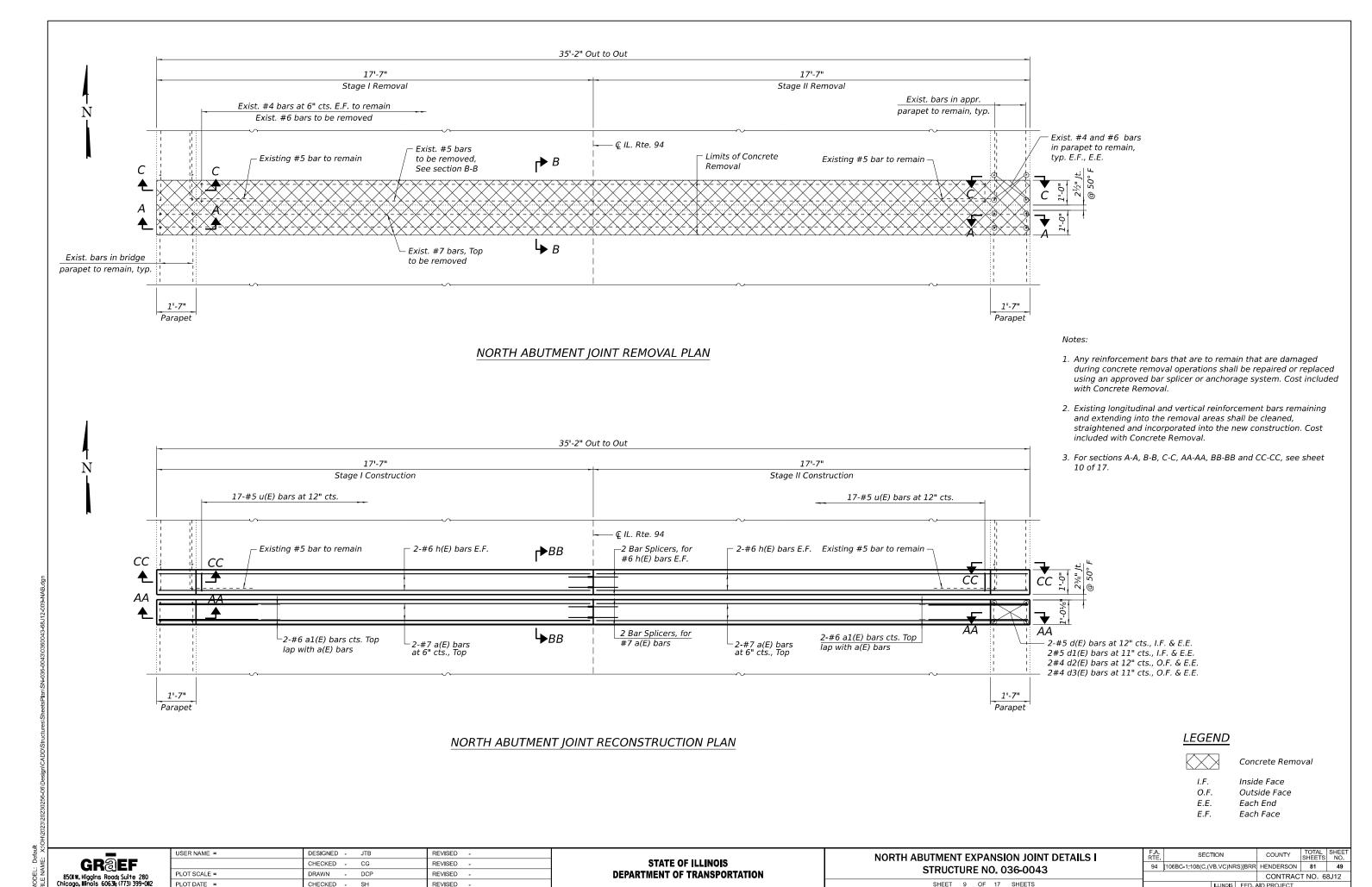
GROEF

8501 W. Higgins Road; Suite 280
Chicago, Minois 60634 (773) 399-012

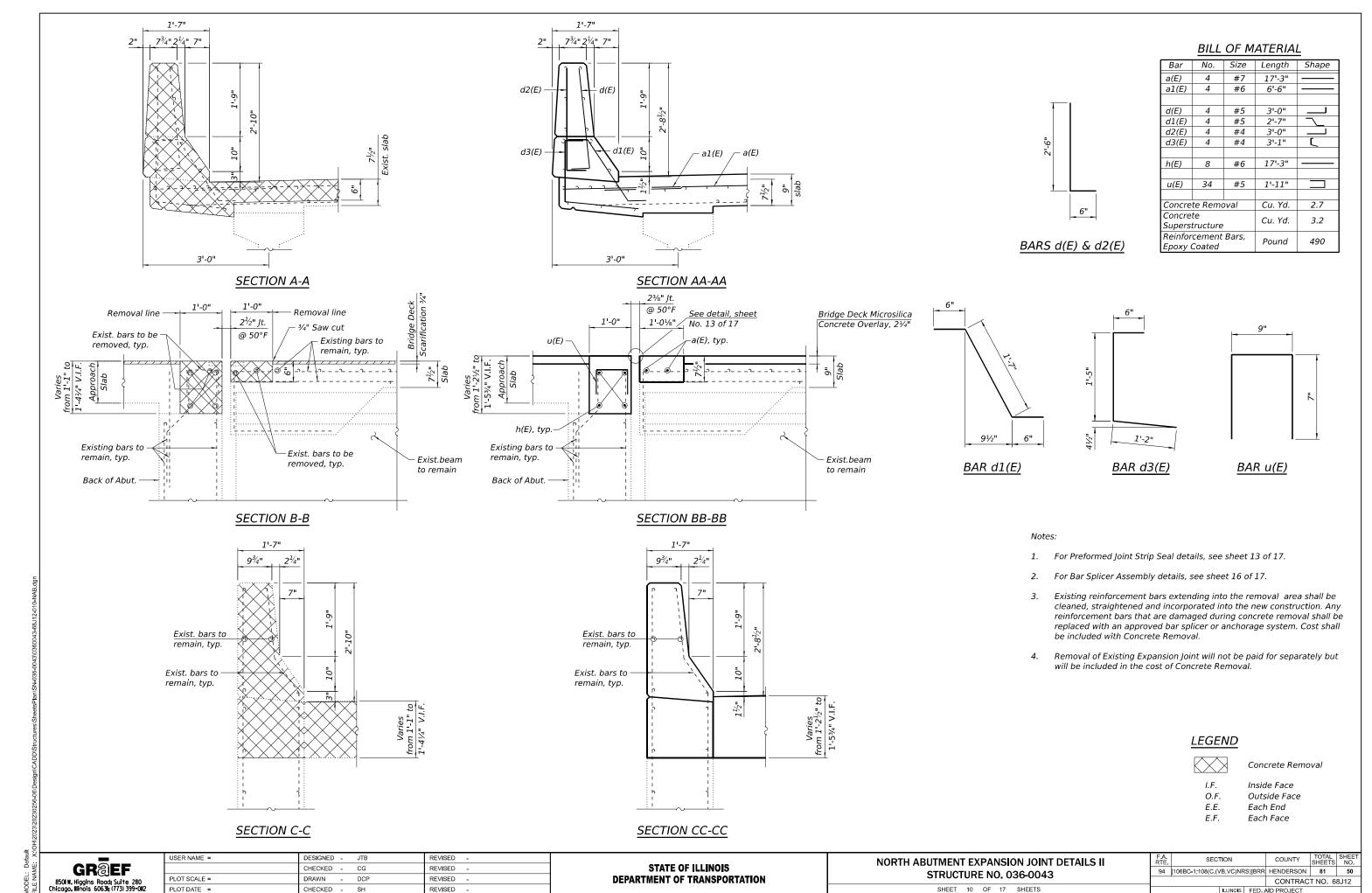
| USER NAME =  | DESIGNED | - | JTB | REVISED - |
|--------------|----------|---|-----|-----------|
|              | CHECKED  | - | CG  | REVISED - |
| PLOT SCALE = | DRAWN    | - | DCP | REVISED - |
| PLOT DATE =  | CHECKED  | - | SH  | REVISED - |

| WEST PARAPET REPAIRS    |    | SEC             |
|-------------------------|----|-----------------|
| STRUCTURE NO. 036-0043  | 94 | [106BC-1;108(C, |
| 3110010112 No. 030-0043 |    |                 |
|                         |    |                 |

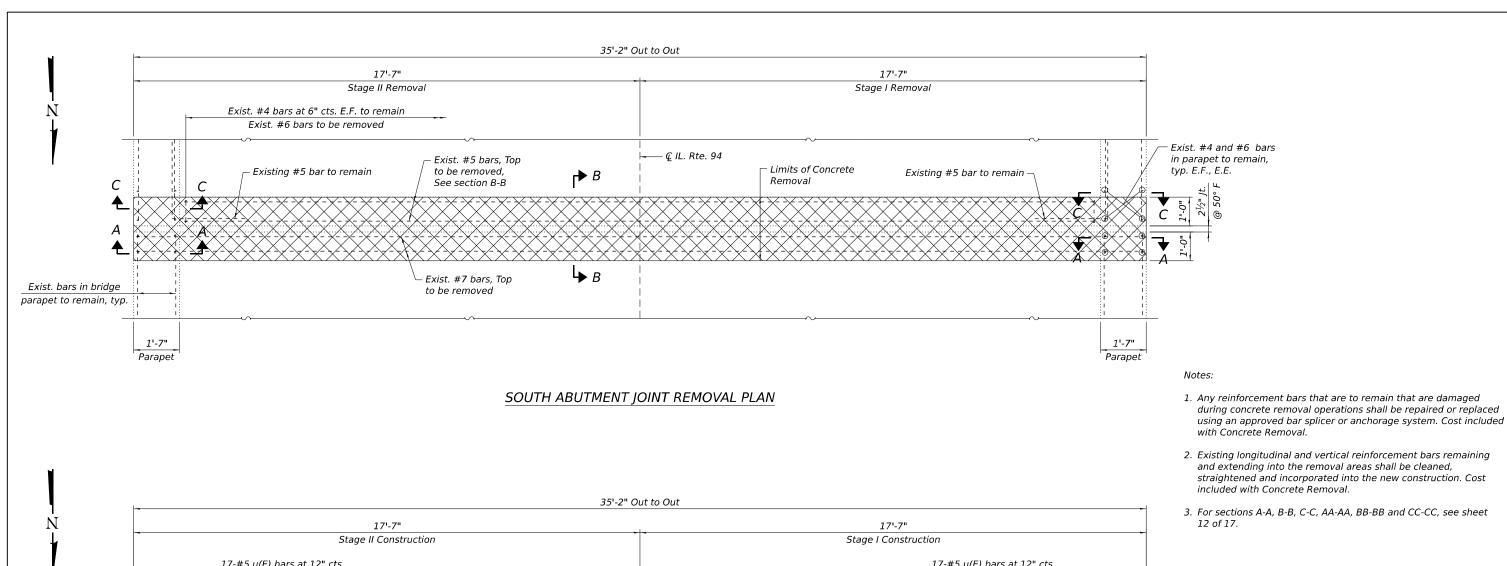
| F.A.<br>RTE | SECTION                        | COUNTY | TOTAL<br>SHEETS | SHEET<br>NO. |      |
|-------------|--------------------------------|--------|-----------------|--------------|------|
| 94          | [106BC-1;108(C,(VB,VC)NRS)]BRR |        | HENDERSON       | 81           | 48   |
|             | ·                              |        | CONTRAC         | T NO. 6      | 8J12 |
|             | ILLINOIS FEE                   | ٠. /   | AID PROJECT     |              |      |

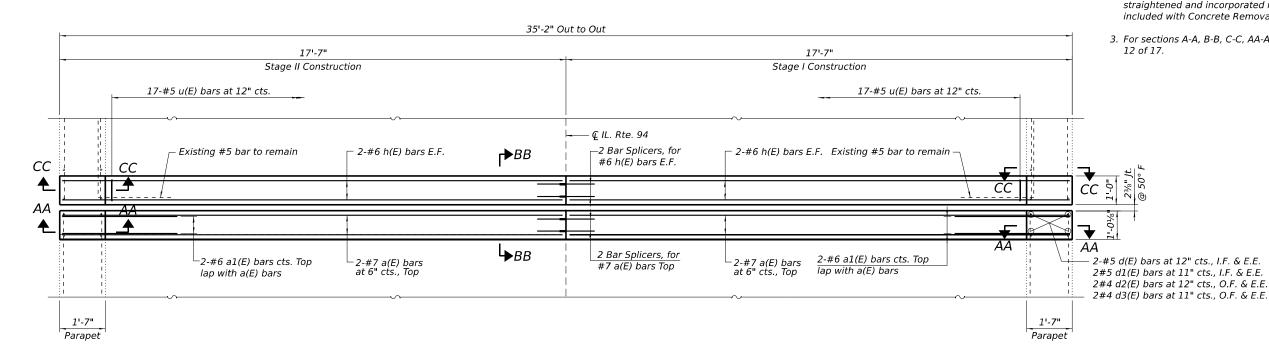


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#### SOUTH ABUTMENT JOINT RECONSTRUCTION PLAN

#### LEGEND

Con

Concrete Removal

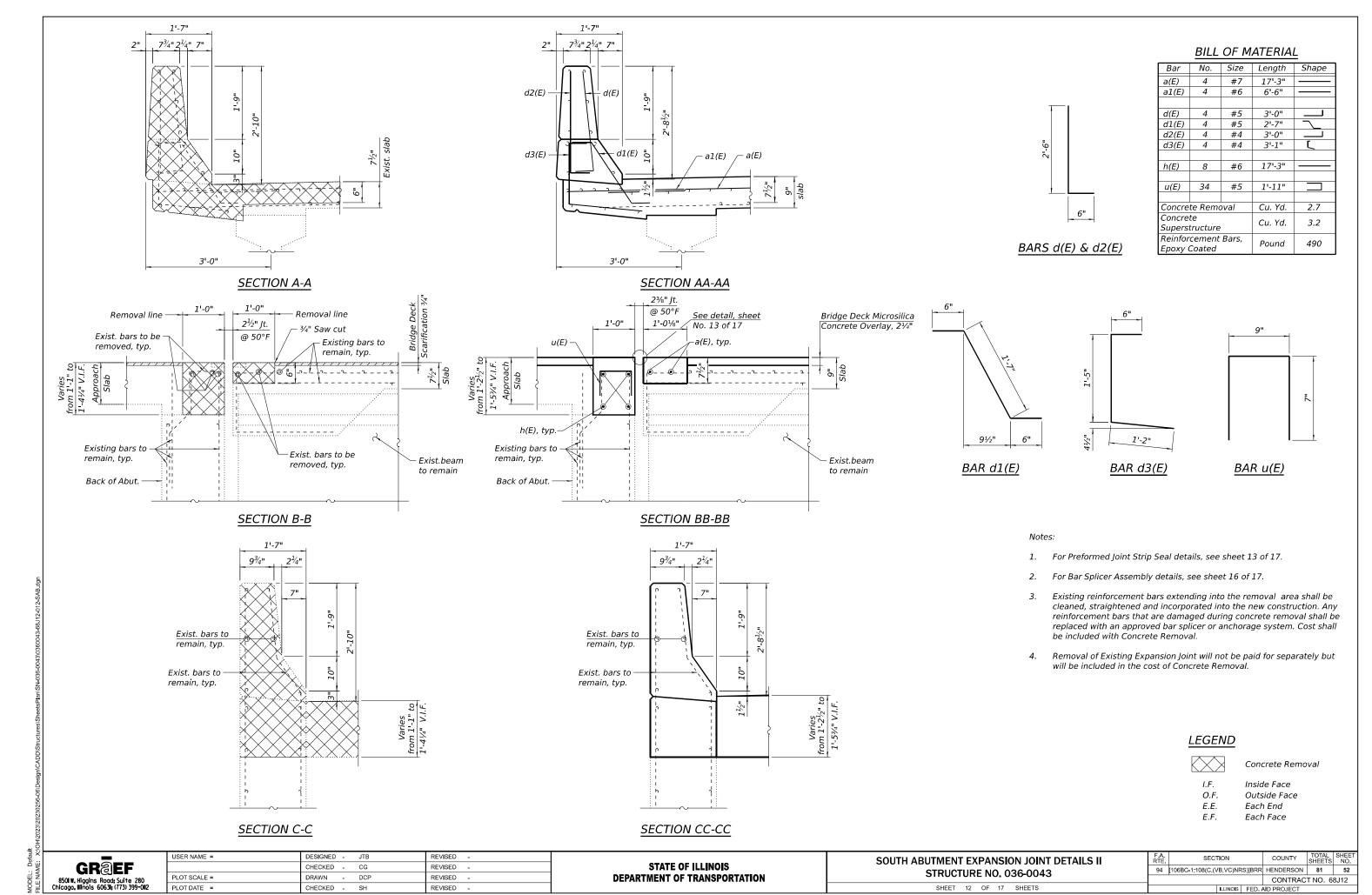
I.F. Inside Face O.F. Outside Face

E.E. Each End E.F. Each Face

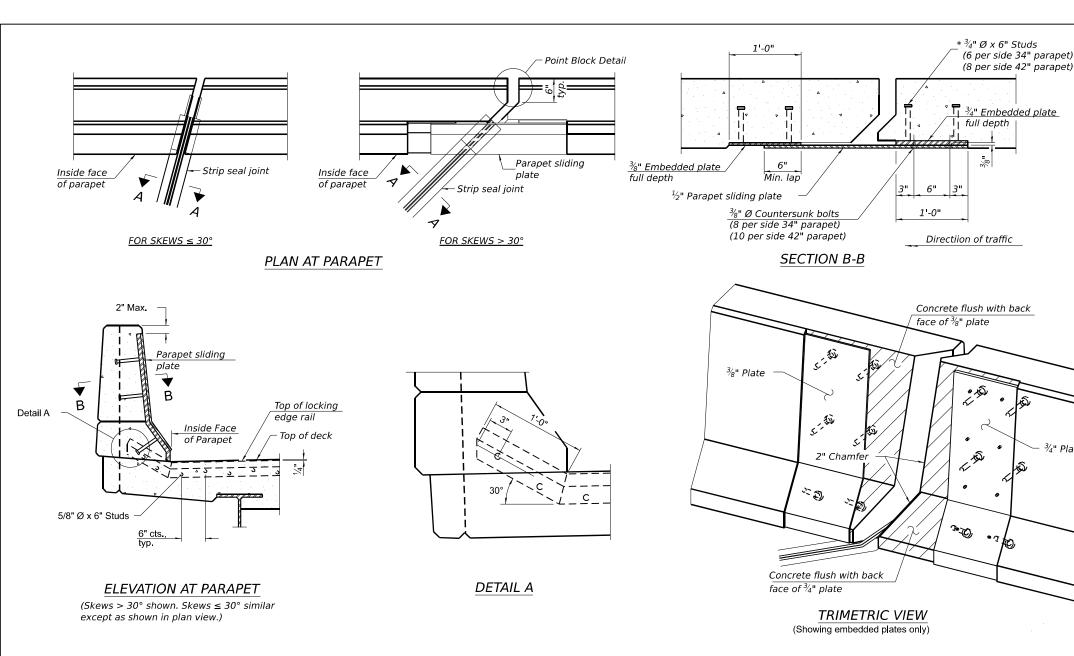
| _                                       |
|-----------------------------------------|
| GR@EF                                   |
| 8501 W. Higgins Road; Suite 280         |
| Chicago, Illinois 60634; (773) 399-0112 |

| USER NAME =  | DESIGNED | - | JTB | REVISED | - |
|--------------|----------|---|-----|---------|---|
|              | CHECKED  | - | CG  | REVISED | - |
| PLOT SCALE = | DRAWN    | - | DCP | REVISED | - |
| PLOT DATE =  | CHECKED  | - | SH  | REVISED | _ |

| F.A.<br>RTE | SECTION                  | COUNTY    | TOTAL<br>SHEETS | SHEET<br>NO. |      |
|-------------|--------------------------|-----------|-----------------|--------------|------|
| 94          | [106BC-1;108(C,(VB,VC)NF | HENDERSON | 81              | 51           |      |
|             |                          |           | CONTRAC         | T NO. 6      | 8J12 |
|             | II LINOIO                | EED /     | ID DDO IECT     |              |      |



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for holding the proper joint opening based on

the temperature during the deck pour. Place to

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

miss studs. All rods shall be burned, or sawed

off flush with the plates after concrete is set.

Notes:

The strip seal shall be made continuous and shall have a minimum thickness of  $\frac{1}{4}$ ". 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. Locking edge rails may exceed the 4½" maximum depth provided the anchorage system is revised according to the manufacturer's recommendation.

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.

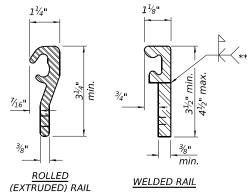
The Maximum space between locking edge rail segments shall be c' and sealed with a suitable sealant; however, any rail joint within 10' measured perpendicular to the face of the curb or parapet shall be welded as shown in the locking edge rail splice detail.

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

34" F-shape barrier shown, 42" F-shape similar as noted. 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.

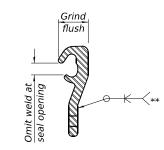
Locking edge rail 1½" at 50° F Top of concrete Strip seal \*  $\frac{5}{8}$ " Ø x 6" studs @ 6" cts. (alternate angled/bent studs with horizontal studs) 3" at N. Abut. and S. Abut. at 50° F  $\frac{3}{8}$ " Ø threaded rods in  $\frac{7}{16}$ " Ø holes at 4'-0" ± cts.

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 | 68    |
|                            |      |       |

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USER NAME = DESIGNED - JTB REVISED -CHECKED - CG REVISED PLOT SCALE = DRAWN DCP REVISED PLOT DATE = CHECKED -REVISED

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**  PREFORMED JOINT STRIP SEAL **STRUCTURE NO. 036-0043** SHEET 13 OF 17 SHEETS

| A.<br>E. | SECTION                        |            | COUNTY | TOTAL<br>SHEETS | SHEET<br>NO. |      |
|----------|--------------------------------|------------|--------|-----------------|--------------|------|
| 4        | [106BC-1;108(C,(VB,VC)NRS)]BRR |            |        | HENDERSON       | 81           | 53   |
|          |                                |            |        | CONTRAC         | T NO. 6      | 8J12 |
|          |                                | ILL INIOIO | EED /  | ID DDO IECT     |              |      |

Locking edge rail

Top of concrete

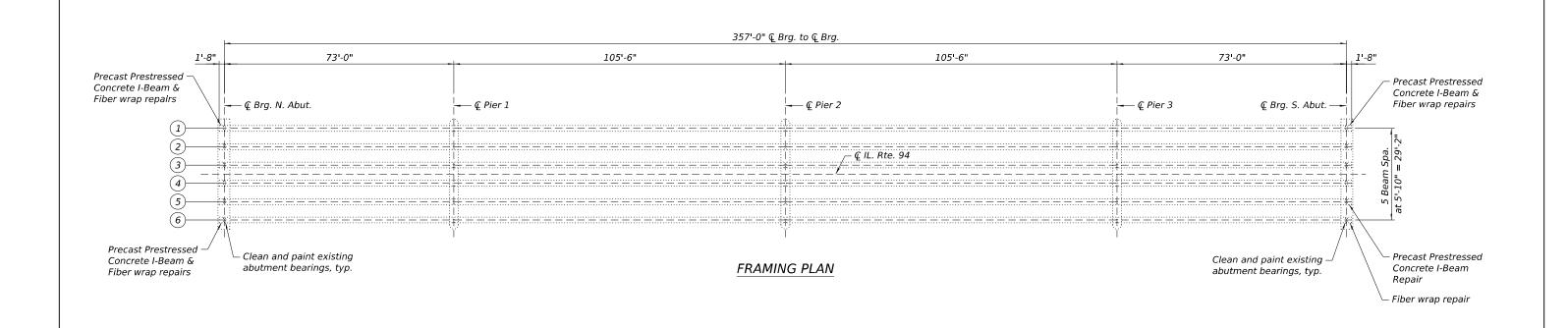
 $2\frac{3}{8}$ " at N. Abut. and S. Abut.

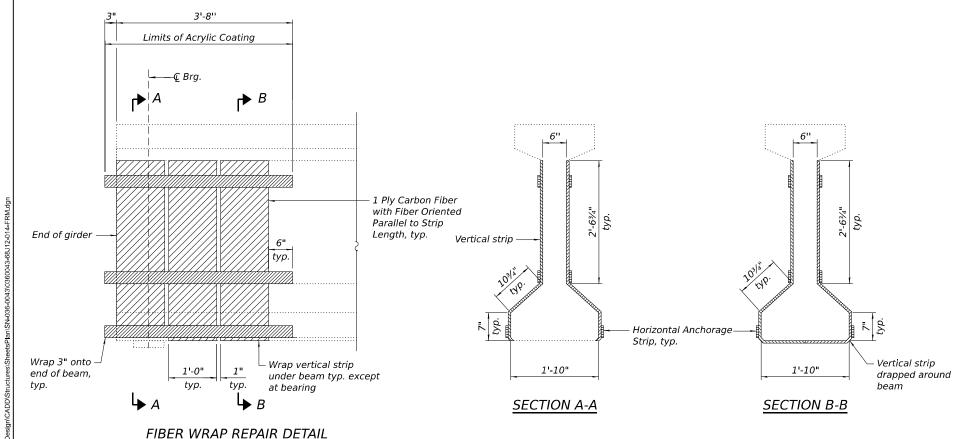
1½" at

Strip seal

50° F

SHOWING ROLLED RAIL JOINT





#### LEGEND

Fiber Wrap Repair



Horizontal Anchorage Strip



Precast Prestressed Concrete

I-Beam Repair

#### Notes:

- Repair limits to be verified in the field

- 1. See Sheet 15 of 17 for bearing details.
- Quantities and limits of repairs shown are estimated for bidding purposes only. The actual areas to be repaired, will be determined by the engineer in the field at the time of construction.

#### **BILL OF MATERIAL**

| ITEM                                          | UNIT  | QUANTITY |
|-----------------------------------------------|-------|----------|
| Acrylic Coating                               | Sq Yd | 16       |
| Fiber Wrap                                    | Sq Ft | 143      |
| Cleaning and Painting Bearings                | Each  | 12       |
| Precast Prestressed Concrete<br>I-Beam Repair | Sq Ft | 6        |

### PPCI-BEAM END REPAIR DETAIL

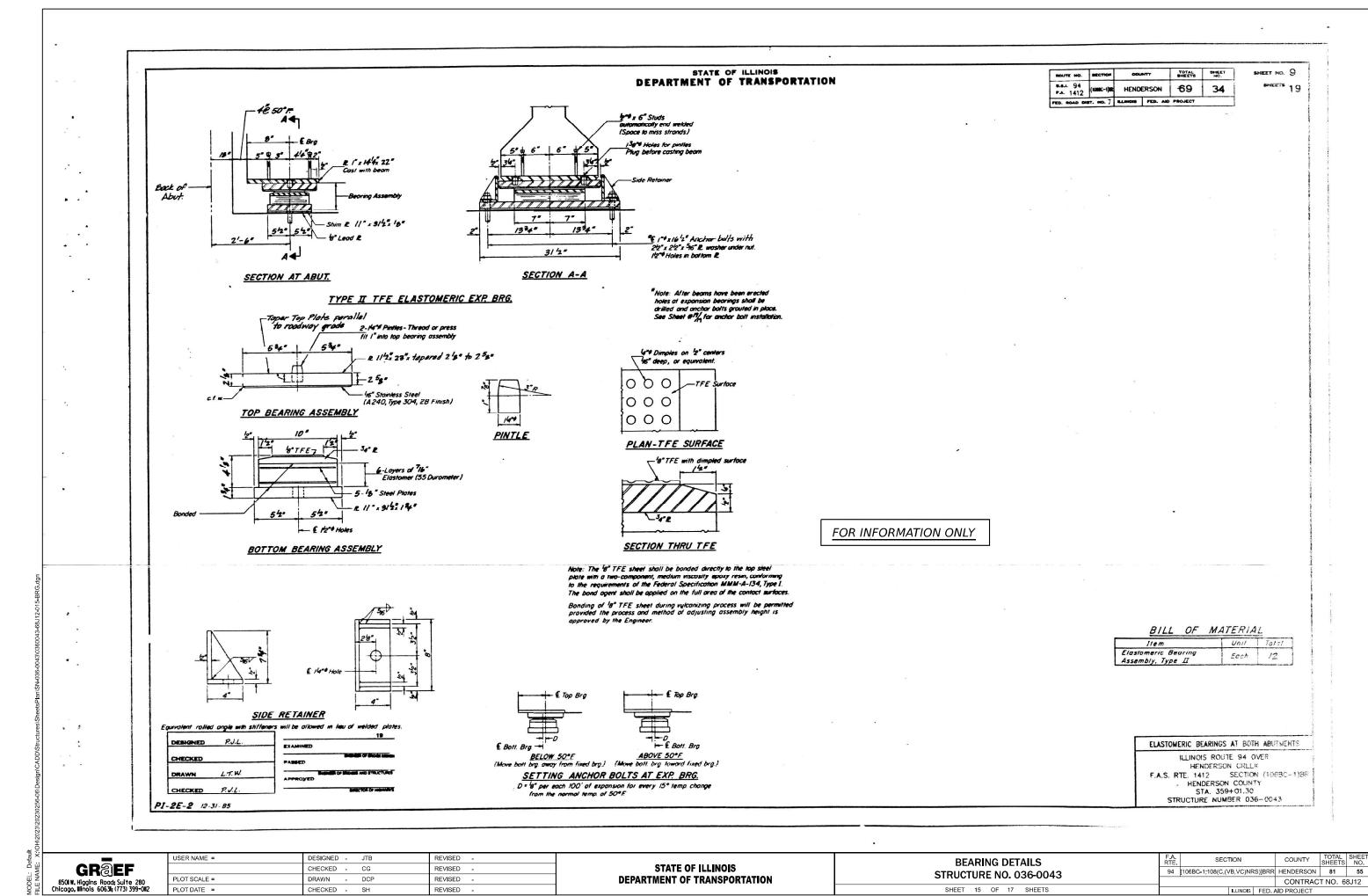
| Location of PPC I-Beam | Estimated   |
|------------------------|-------------|
| Repair                 | Repair Area |
| South Abutment Beam 1  | 3 Sq Ft     |
| South Abutment Beam 5  | 1 Sq Ft     |
| North Abutment Beam 1  | 1 Sq Ft     |
| North Abutment Beam 6  | 1 Sq Ft     |

| USER NAME =  | DESIGNED | - | JTB | REVISED - |
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|              | CHECKED  | - | CG  | REVISED - |
| PLOT SCALE = | DRAWN    | - | DCP | REVISED - |
| PLOT DATE =  | CHECKED  | - | SH  | REVISED - |

(Beam 1 and 6 both abutments)

| STATE OF ILLINOIS            |
|------------------------------|
| DEPARTMENT OF TRANSPORTATION |

| FRAMING PLAN AND PPC I-BEAM REPAIRS | F.A.<br>RTE | SECTION                        | COUNTY      | TOTAL<br>SHEETS | SHEET<br>NO. |
|-------------------------------------|-------------|--------------------------------|-------------|-----------------|--------------|
| STRUCTURE NO. 036-0043              |             | [106BC-1;108(C,(VB,VC)NRS)]BRR | HENDERSON   | 81              | 54           |
| 0111001011E 110; 000 00+0           |             |                                | CONTRAC     | T NO. 6         | 8J12         |
| SHEET 14 OF 17 SHEETS               |             | III MOIO FED                   | UD DDO IECT |                 |              |



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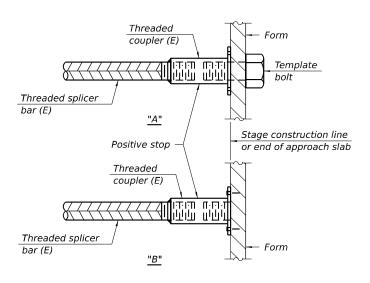
#### STANDARD BAR SPLICER ASSEMBLY PLAN

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

Threaded splicer bar length = min. lap length +  $1\frac{1}{2}$ " + thread length

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

| Location       | Bar  | No. assemblies | Minimum    |
|----------------|------|----------------|------------|
| Location       | size | required       | lap length |
| North Abutment | #6   | 4              | 3'-7"      |
| Exp. Jt.       | #7   | 2              | 4'-8"      |
| South Abutment | #6   | 4              | 3'-7"      |
| Exp. Jt.       | #7   | 2              | 4'-8"      |
|                |      |                |            |

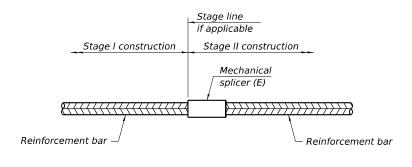


#### INSTALLATION AND SETTING METHODS

"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<br>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.

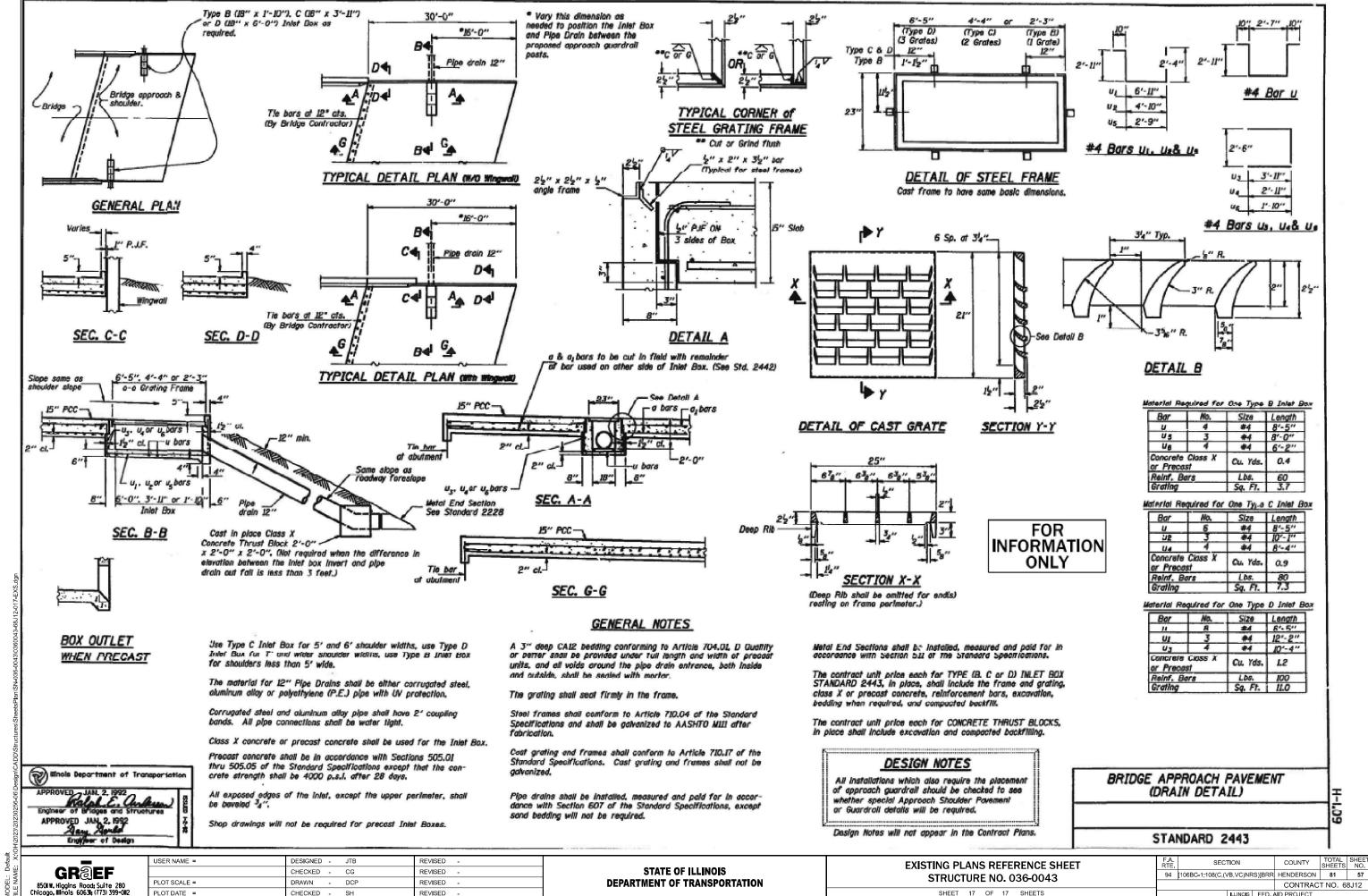
See approved list of bar splicer assemblies and mechanical splicers for alternatives.

BSD-1

5-15-2023



| USER NAME =  | DESIGNED | - | JTB | REVISED | - |
|--------------|----------|---|-----|---------|---|
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| PLOT SCALE = | DRAWN    | - | DCP | REVISED | - |
| PLOT DATE =  | CHECKED  | - | SH  | REVISED | - |



PLOT DATE =

CHECKED -

REVISED

**DEPARTMENT OF TRANSPORTATION** 

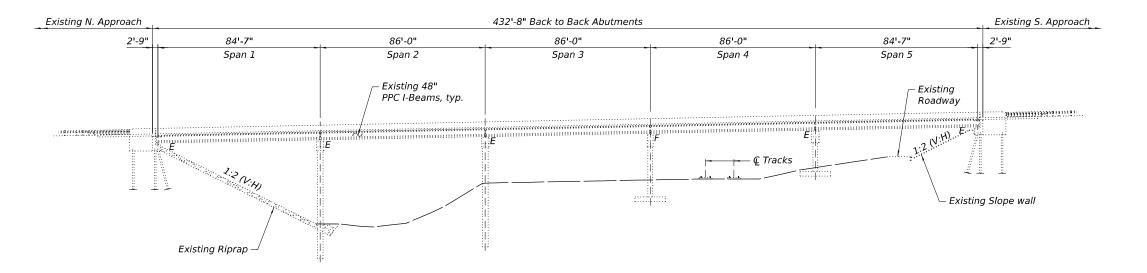
**STRUCTURE NO. 036-0043** SHEET 17 OF 17 SHEETS

CONTRACT NO. 68J12

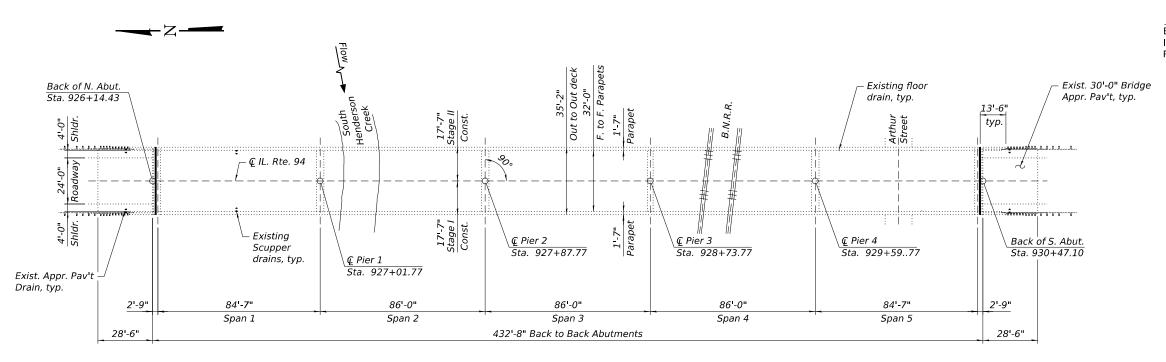
Existing Description: SN 036-0047 was originally built in 1995. The structure has a back-to-back length of 432'-8"and an out-to-out width of 35'-2". The superstructure consists of a 7½" thick reinforced concrete slab supported on five-span continuous 48"PPC I-beams of span lengths 84'-7", 86'-0", 86'-0", 86'-0 ' and 84'-7". The substructure consists of reinforced concrete abutments founded on steel h-piles and solid wall piers supported on drilled caissons and spread footings.

Traffic will be maintained utilizing stage construction.

NO SALVAGE:



#### **ELEVATION**



#### PLAN

#### LOADING HS20-44

Existing and Proposed

#### **DESIGN SPECIFICATIONS**

1992 AASHTO Standard Specifications with 1993 Interims

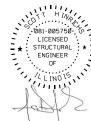
#### **DESIGN STRESSES**

#### FIELD UNITS (EXIST. CONST.)

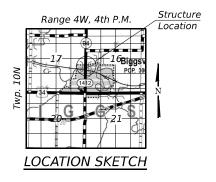
f'c = 3,500 psi (Concrete) fc = 4,000 psi (Caissons)fy = 60,000 psi (Reinforcement)f'c = 6,000 psi (PPC I-Beams) fci = 5,000 psi (PPC I-Beams)f's = 270,000 psi ( $\frac{1}{2}$ "  $\emptyset$  Strands) f'si = 201,960 psi (½"  $\oslash$  Strands)

#### FIELD UNITS (PROP. CONST.)

 $f^{1}c = 4,000 \text{ psi}$ fy = 60,000 psi (Reinforcement)



ENGINEER FULL NAME: SCOTT HINRICHS DATE: 05-02-2025 ILLINOIS REGISTERED ENGINEER NO. 081-005750 REGISTRATION EXPIRES 11, 30, 2026



**GENERAL PLAN & ELEVATION** F.A.S. RTE. 1412 (ILL. RTE.94) OVER SOUTH HENDERSON CREEK AND BURLINGTON NORTHERN RAILROAD HENDERSON COUNTY **STRUCTURE NO. 036-0047** 

SHEET 1 OF 17 SHEETS

| _                                    |
|--------------------------------------|
| GR@EF                                |
| GRØEF                                |
| 8501 W. Higgins Road; Suite 280      |
| Chicago Illinois 60634 (773) 300-012 |

| USER NAME =  | DESIGNED - JTB | REVISED - |
|--------------|----------------|-----------|
|              | CHECKED - CG   | REVISED - |
| PLOT SCALE = | DRAWN - DCP    | REVISED - |
| PLOT DATE =  | CHECKED - SH   | REVISED - |

#### **GENERAL NOTES:**

- 1. 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 detrimental foreign material shall be removed from the surfaces in contact with concrete (SSPCSP3 standards). 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 paid for according to Article 109.04 of the Standard Specifications. As directed by the Engineer, existing construction accessories welded to the top flange of beams and girders 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 ¼ 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.
- 3. Plan dimensions and details relative to the existing structure have been taken from existing plans and 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.
- 4. Existing reinforcement bars extending into the removal area shall be cleaned, straightened, and incorporated into the new construction. Any reinforcement bars that are damaged during concrete removal shall be replaced with an approved bar splicer or anchorage system at the contractor's expense.
- The Contractor shall use extreme care during concrete removal so as not to damage the PPC I-Beam.
- Joint openings shall be adjusted according to Article 520.04 of the Std. Specs. when the deck is poured at an ambient temperature other than 50°F.
- 7. The protective coat shall be applied to the top of the Microsilica Concrete Overlay after deck overlay has properly cured.
- The protective coat (Special) shall be applied to all surfaces of the existing parapets.
- Surface Filler (Special) shall be applied according to Special Provisions.
- 10. The minimum thickness of concrete overlay shall be 2¼" and varies as required to adjust for the existing profile grade and beam camber.
- 11. The steel components of all expansion bearings at the abutments shall be blasted and painted according to the Special Provision "Cleaning and Painting Bearings." All bearings shall be cleaned per Near White Blast Cleaning (SSPC-SP10). The designated areas cleaned per Near White Blast Cleaning (SSPC-SP10) shall be painted according to the requirements of Organic Zinc-Rich Epoxy/Urethane. The color of the final finish coat for all steel surfaces shall be Gray, Munsell No. 5B 7/1.
- 12. Containment of cleaning residue is required to control nuisance dust. See special provisions.

#### **INDEX OF SHEETS**

- 1. General Plan and Elevation
- 2. General Data
- 3. Stage Construction Details
- 4. Temporary Concrete Barrier
- 5. Bridge Deck Repair Plan
- 5. Drainage Adjustment Details 7-8. North Abutment Expansion Joint Details I & II
- 9-10. South Abutment Expansion Joint Details I & II
- 11. Preformed Joint Strip Seal
- 12. Framing Plan and PPC I-Beam Repairs
- 13. Bearing Details
- 14. Bar Splicer Assembly and Mechanical Splicer Details
- 15-17. Existing Plans Reference Sheet

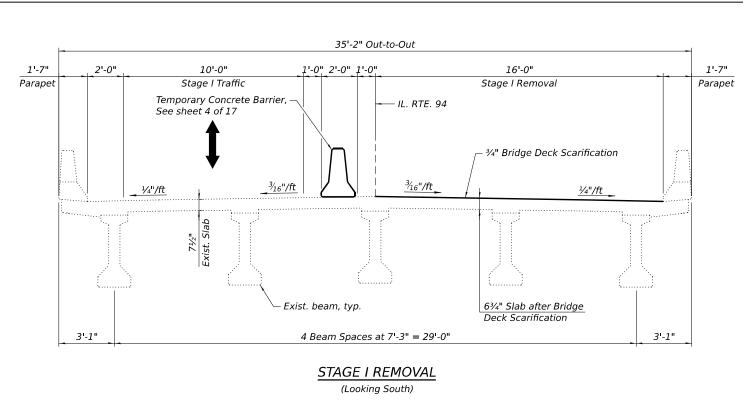
#### SCOPE OF WORK

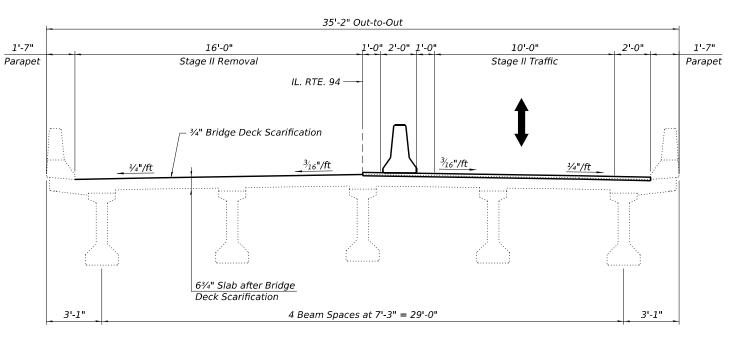
- 1. Scarify 3/4" from the bridge deck and approach slabs
- Remove and reconstruct expansion joints at north and south abutments, and install new Preformed Joint Strip Seals.
- Adjust drainage inlets and scuppers.
- 4. Apply a 2½" Microsilica concrete overlay on the bridge deck and approach slabs.
- 5. Perform Bridge Deck Grooving on traffic lanes.
- 6. Perform concrete repairs of the approach slab curbs.
- 7. Apply Protective Coat to the reconstructed transverse expansion joints and to the top of the Microsilica Concrete Overlay.
- 8. Apply Protective Coat (Special) and Surface Filler (Special) to all faces of the parapets.
- 9. Cleaning and Painting Bearings.
- Apply acrylic coating to bottom flange of exterior girder ends.

#### TOTAL BILL OF MATERIAL

| ITEM                                           | UNIT   | SUPER | SUB | TOTAL |
|------------------------------------------------|--------|-------|-----|-------|
| Concrete Removal                               | Cu Yd  | 6.4   | -   | 6.4   |
| Concrete Superstructure                        | Cu Yd  | 7.3   | -   | 7.3   |
| Bridge Deck Grooving                           | Sq Yd  | 1,305 | -   | 1,305 |
| Protective Coat                                | Sq Yd  | 1,746 | -   | 1,746 |
| Reinforcement Bars, Epoxy Coated               | Pound  | 980   | -   | 980   |
| Bar Splicers                                   | Each   | 12    | -   | 12    |
| Preformed Joint Strip Seal                     | Foot   | 68    | -   | 68    |
| Inlet to be Adjusted                           | Each   | 4     | -   | 4     |
| Acrylic Coating                                | Sq Yd  | 7     | -   | 7     |
| Surface Filler (Special)                       | Gallon | 1     | -   | 1     |
| Protective Coat (Special)                      | Sq Yd  | 643   | -   | 643   |
| Cleaning and Painting Bearings                 | Each   | 10    | -   | 10    |
| Bridge Deck Scarification 3/4"                 | Sq Yd  | 1,719 | -   | 1,719 |
| Bridge Deck Microsilica Concrete Overlay 21/4" | Sq Yd  | 1,719 | -   | 1,719 |
| Drainage Scuppers to be Adjusted               | Each   | 2     | -   | 2     |

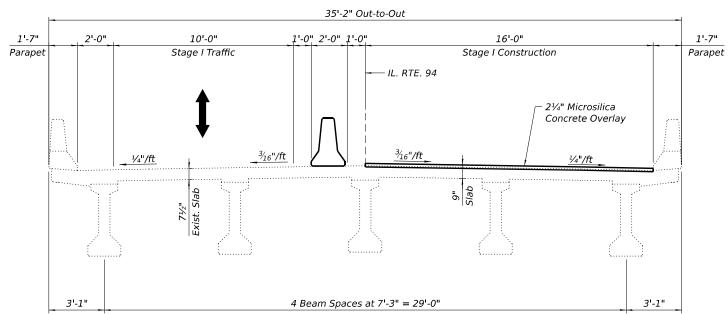
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| PLOT SCALE = | DRAWN    | - | DCP | REVISED - |
| PLOT DATE =  | CHECKED  | - | SH  | REVISED - |

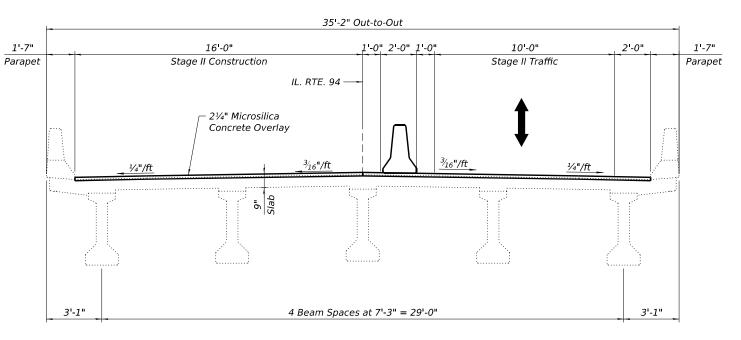




## STAGE II REMOVAL

(Looking South)





#### STAGE I CONSTRUCTION

(Looking South)

STAGE II CONSTRUCTION

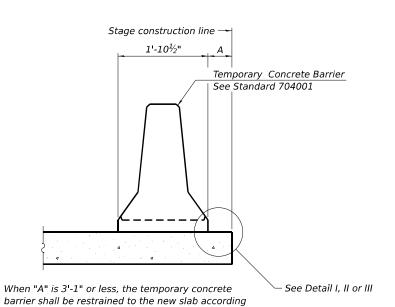
(Looking South)

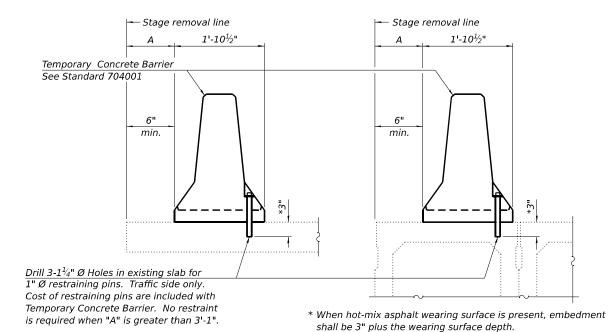
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| PLOT SCALE = | DRAWN    | - | DCP | REVISED | - |
| PLOT DATE =  | CHECKED  | - | SH  | REVISED | - |

| STAGE CONSTRUCTION DETAILS | F.A.<br>RTE | SECTION                  |         | COUNTY      | TOTAL<br>SHEETS | SHEET<br>NO. |
|----------------------------|-------------|--------------------------|---------|-------------|-----------------|--------------|
| STRUCTURE NO. 036-0047     |             | [106BC-1;108(C,(VB,VC)NR | (S)]BRR | HENDERSON   | 81              | 60           |
| 311(00101)E 110; 030-0041  |             |                          |         | CONTRAC     | T NO. 6         | 8J12         |
| SHEET 3 OF 17 SHEETS       |             | ILLINOIS                 | FED.    | AID PROJECT |                 |              |





1x8 UNC 7/16" Ø hole US Std.  $1\frac{1}{16}$ " I.D.  $\times 2\frac{1}{2}$ " O.D. x approx. 8 gauge thick washer 1" Ø pin RESTRAINING PIN

#### NEW SLAB OR NEW DECK BEAM

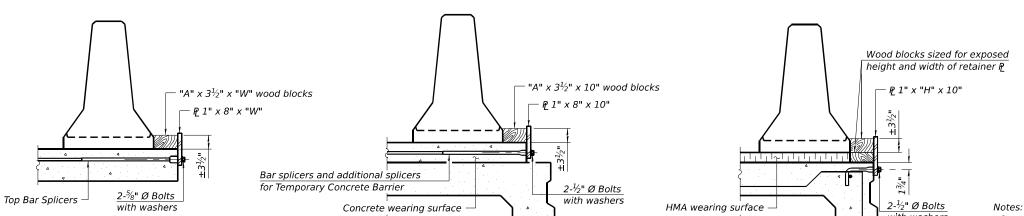
to Detail I, II or III. No restraint is required

DETAIL I

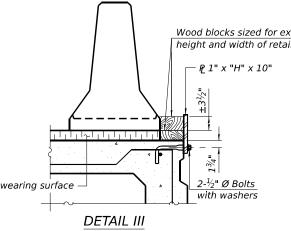
when "A" is greater than 3'-1".

#### SECTIONS THRU SLAB OR DECK BEAM

EXISTING SLAB



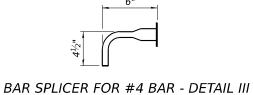
DETAIL II



− **Ç** <sup>7</sup>⁄<sub>8</sub>" Ø Holes

10"

EXISTING DECK BEAM



Cost of retainer assembly is included with Temporary Concrete Barrier. A retainer assembly shall be located at the approximate  $\mathcal C$  of each temporary concrete barrier.

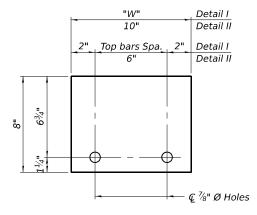
The retainer plate shall not be removed until the concrete on the adjacent stage is ready to be poured. For Detail III applications the retainer plate shall not be removed until just prior to placing the adjacent beam.

When the 'A' dimension is less than  $1\frac{1}{2}$ ", 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.



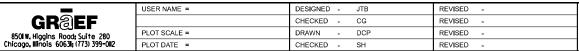
#### RAILING CRITERIA

| NCHRP 350 Test Level | 3   |
|----------------------|-----|
| Railing Weight (plf) | 440 |

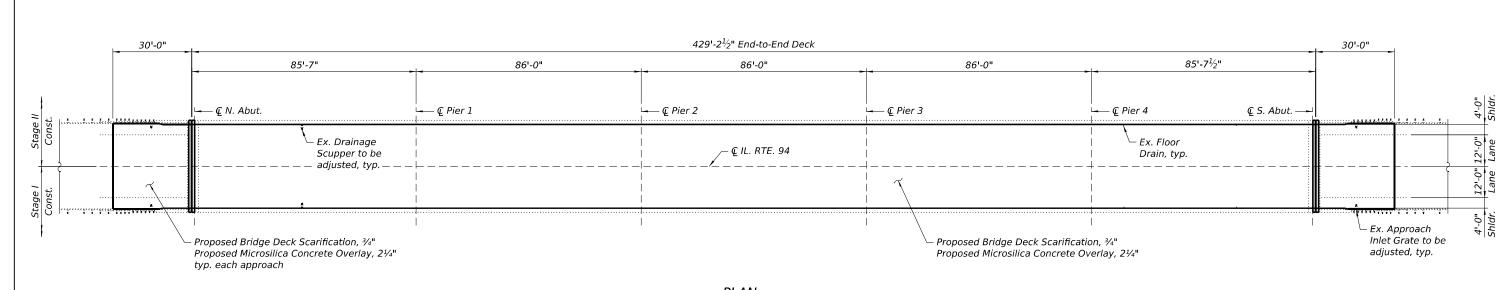
R-27 5-15-2023

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

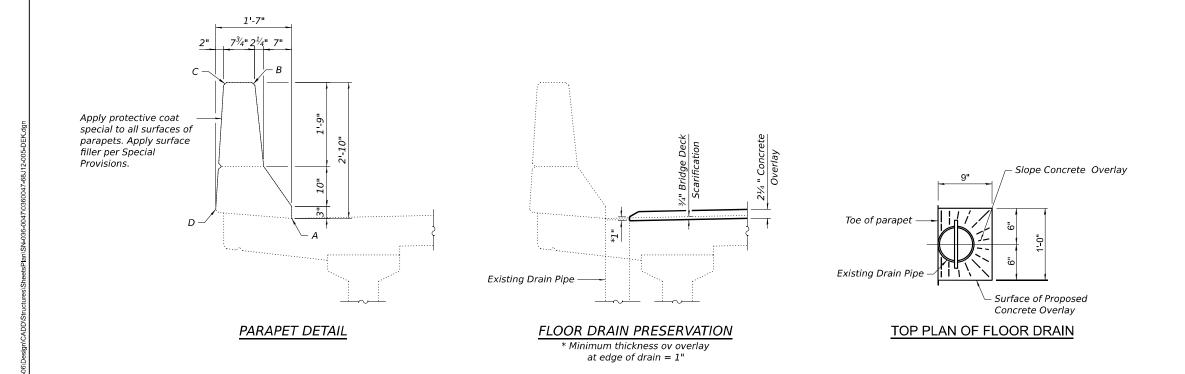
STEEL RETAINER P 1" x "H" x 10" (Detail III)



STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**  TEMPORARY CONCRETE BARRIER SECTION COUNTY 94 [106BC-1;108(C,(VB,VC)NRS)]BRR HENDERSON 81 61 **STRUCTURE NO. 036-0047** CONTRACT NO. 68J12 SHEET 4 OF 17 SHEETS







#### Notes:

- 1. See Sheet 6 of 17 for drainage adjustment details.
- Bridge approach scarification and bridge approach microsilica concrete overlay included in bridge deck scarification and microsilica concrete overlay.
- Protective Coat (Special) to cover from point A through points B, C, and D of the parapet.

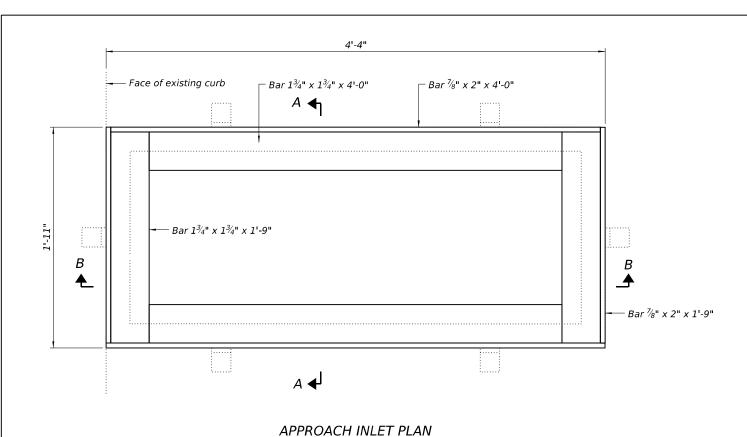
#### BILL OF MATERIAL

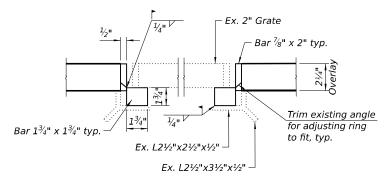
| ITEM                             | UNIT   | QUANTITY |
|----------------------------------|--------|----------|
| Bridge Deck Grooving             | Sq Yd  | 1,305    |
| Protective Coat                  | Sq Yd  | 1,746    |
| Inlet to be Adjusted             | Each   | 4        |
| Surface Filler (Special)         | Gallon | 1        |
| Protective Coat (Special)        | Sq Yd  | 643      |
| Bridge Deck Scarification 3/4"   | Sq Yd  | 1,719    |
| Bridge Deck Microsilica Concrete | C~ Vd  | 1.719    |
| Overlay, $2\frac{1}{4}$ Inches   | Sq Yd  | 1,/19    |
| Drainage Scuppers to be Adjusted | Each   | 2        |

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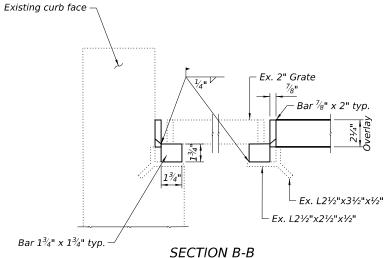
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|              | CHECKED - CG   | REVISED - |
| PLOT SCALE = | DRAWN - DCP    | REVISED - |
| PLOT DATE =  | CHECKED - SH   | REVISED - |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BRIDGE DECK REPAIR PLANS STRUCTURE NO. 036-0047 



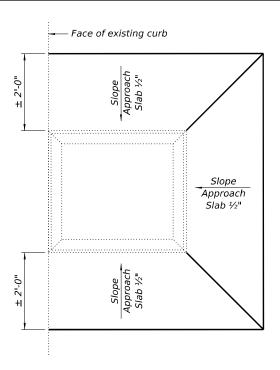
#### SECTION A-A



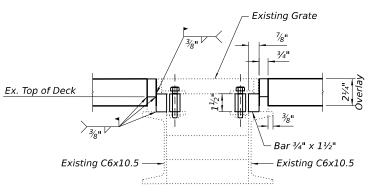
Bar 3/8" x 11/2"

- Bar  $\frac{7}{8}$ " x 1½"

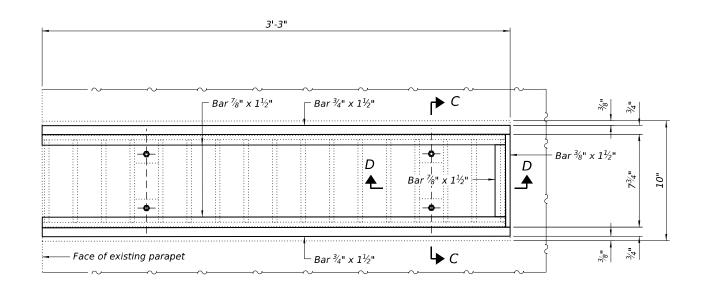
Existing C6x10.5



#### SLOPING PLAN



### SECTION C-C



### SECTION D-D

1/2"  $\varnothing$  H.S. bolt with lock washer (4 Req'd per grate)

#### Note

All structural steel shall be AASHTO M270 Grade 36. The adjusting inlet ring and adjusting scupper ring shall be galvanized. Bolts shall be 1/2" Ø, AASHTO M164 Type I, mechanically galvanized All dimensions shall be field measured, verified, and adjusted as appropriate prior to shop drawings preparation. Contractor shall mark red line as-built plans.

Shop drawings for proposed Steel & Frame Extension and proposed adjusting scupper ring shall shall be submitted for approval prior to fabrication.

Contractor shall ensure that no damage is done to existing grates to be reused.

Cost of all labor and materials necessary to remove existing grates, install Steel P Frame Extensions and reinstall grates is included in the cost per unit each for Inlet to be Adjusted.

Cost of all labor and materials necessary to remove existing grates, clean existing scuppers, Inlet all adjusting scupper rings and reinstall grates is included in the cost per unit each for Drainage Scuppers to be Adjusted.

Refer to Bridge Approach Pavement Drain Standard 2324 for existing details.

Contractor to provide new grates if existing are missing. Cost of new grates included in the cost per unit each for Inlet to be Adjusted.

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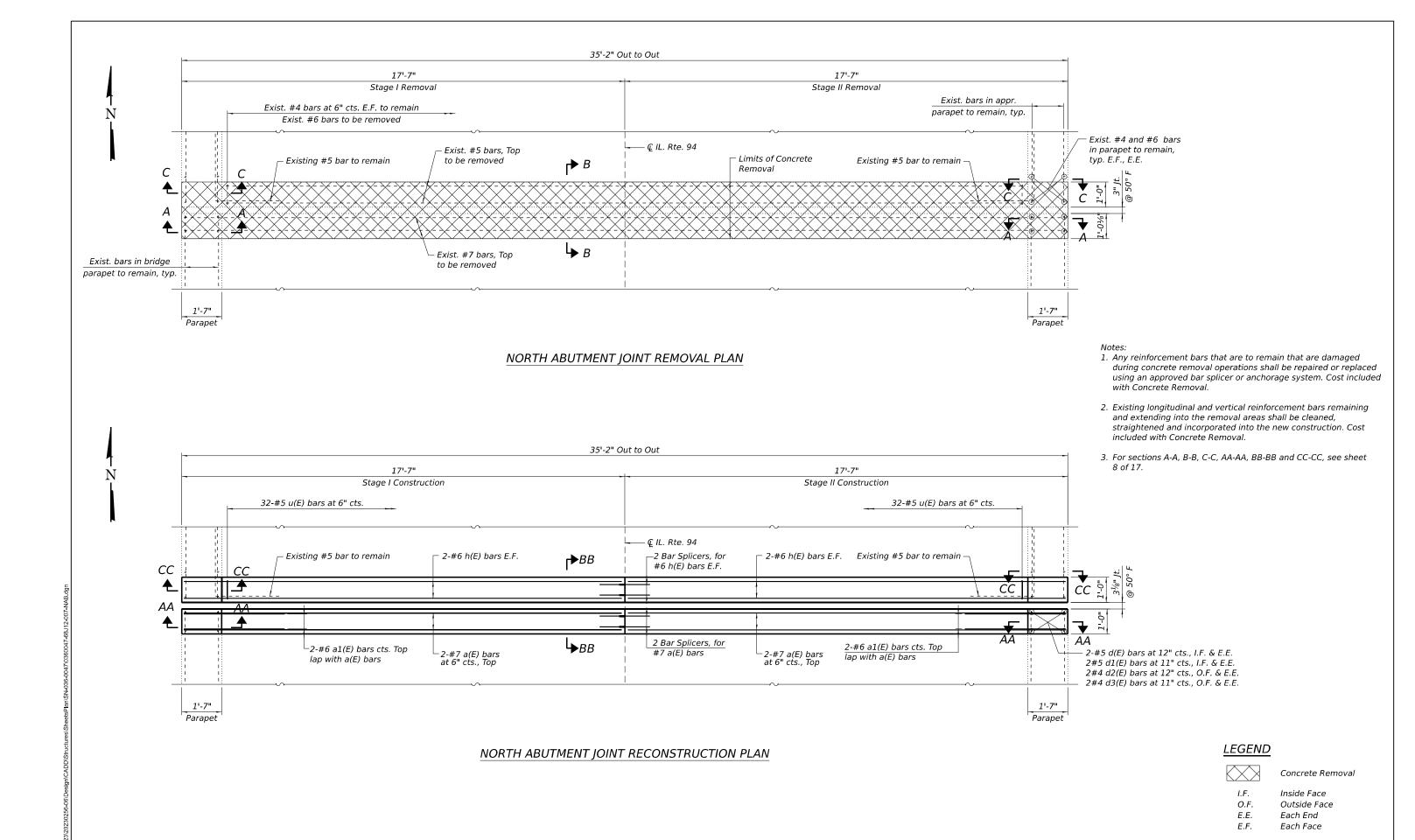
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DRAINAGE SCUPPER PLAN

| DRAINAGE ADJUSTMENT DETAILS |    |  |
|-----------------------------|----|--|
| STRUCTURE NO. 036-0047      | 94 |  |
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| F.A.<br>RTE. | SECTION                        | COUNTY       | TOTAL<br>SHEETS | SHEET<br>NO. |
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|              |                                | CONTRAC      | T NO. 6         | 8J12         |
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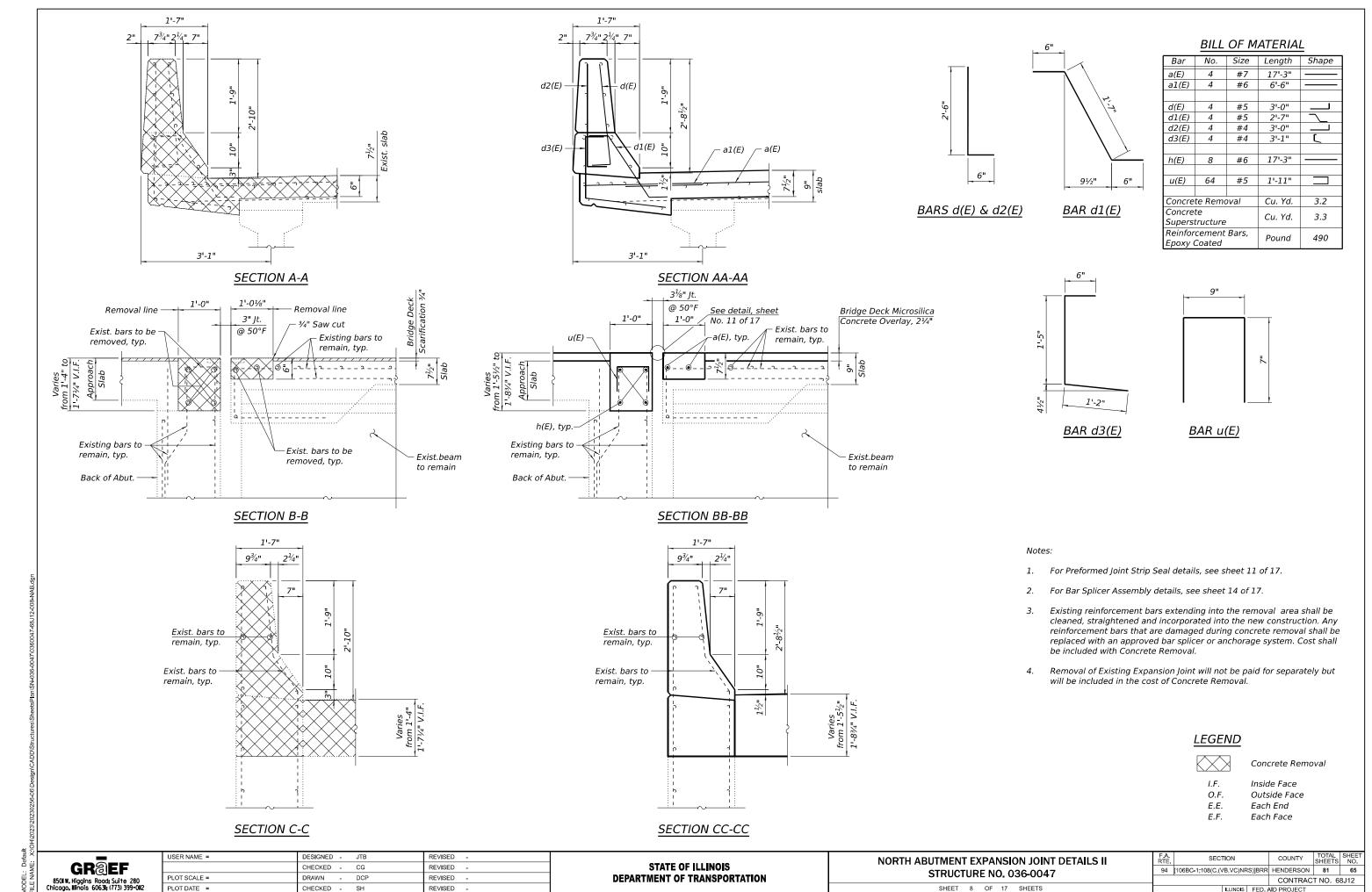
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

NORTH ABUTMENT EXPANSION JOINT DETAILS I STRUCTURE NO. 036-0047

 
 F.A. RTE.
 SECTION
 COUNTY
 TOTAL SHEETS
 SHEETS NO.

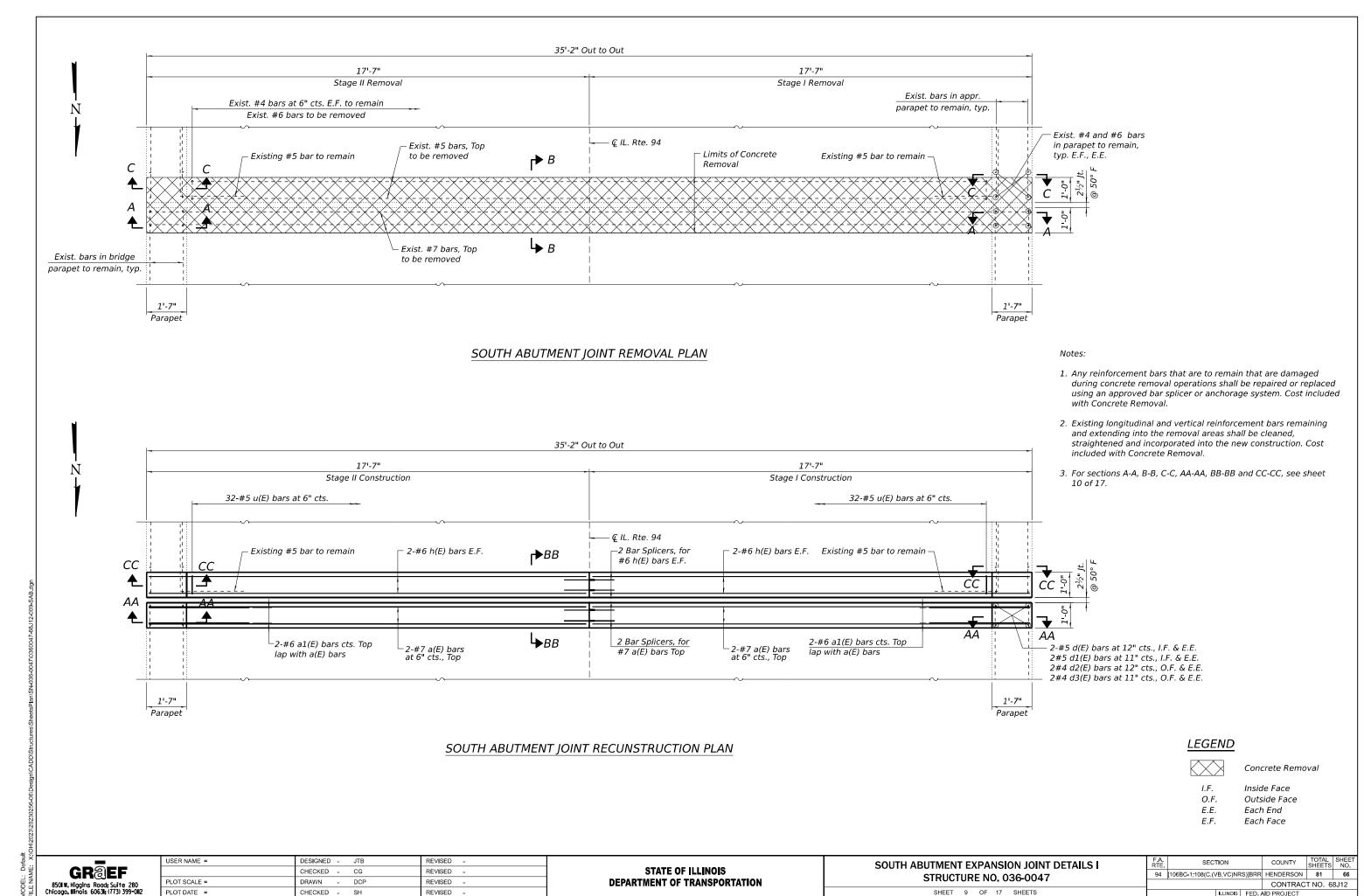
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 106BC-1;108(C,(VB,VC)NRS)]BRR
 HENDERSON
 81
 64

 CONTRACT NO.
 68J12

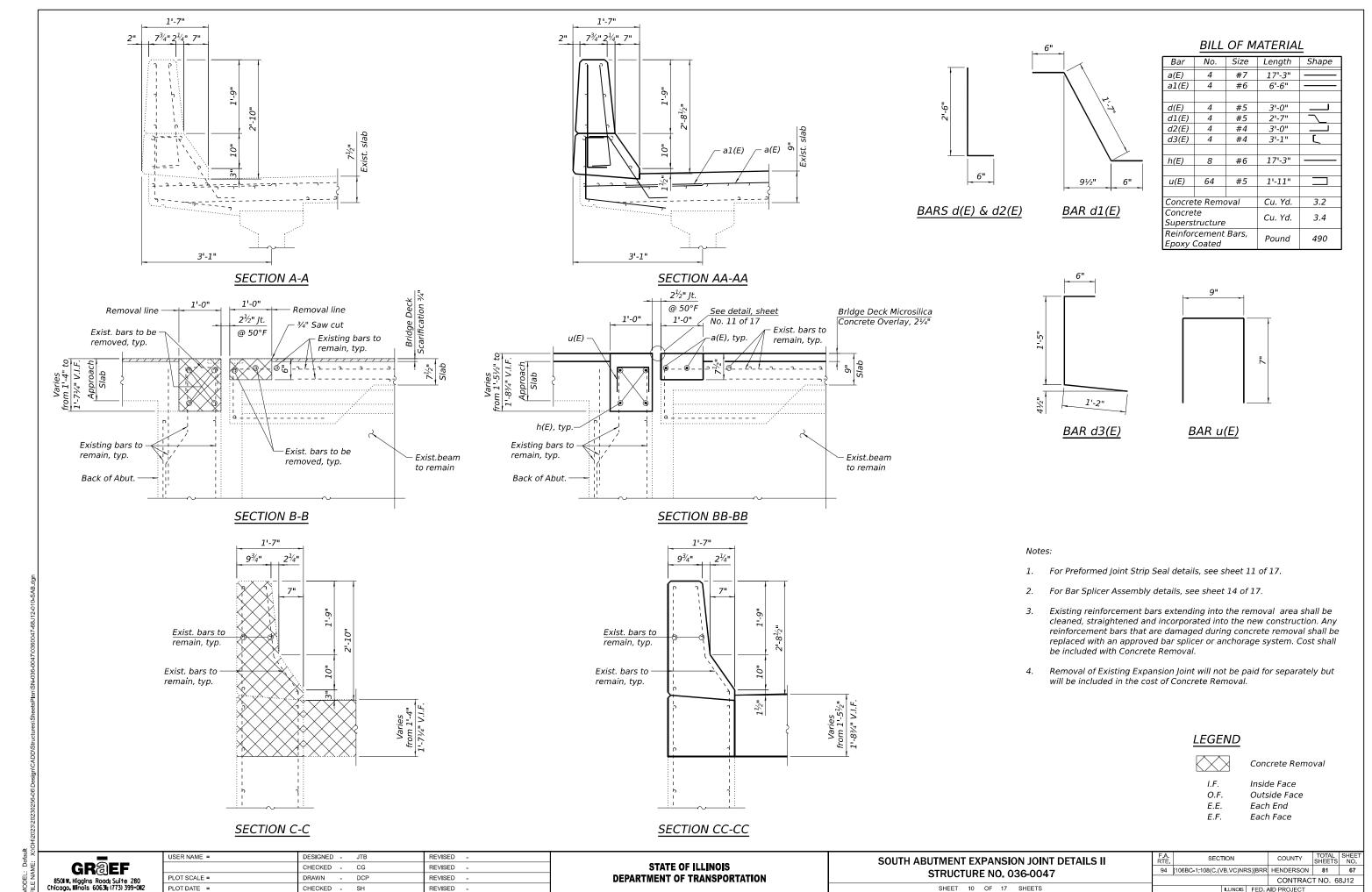


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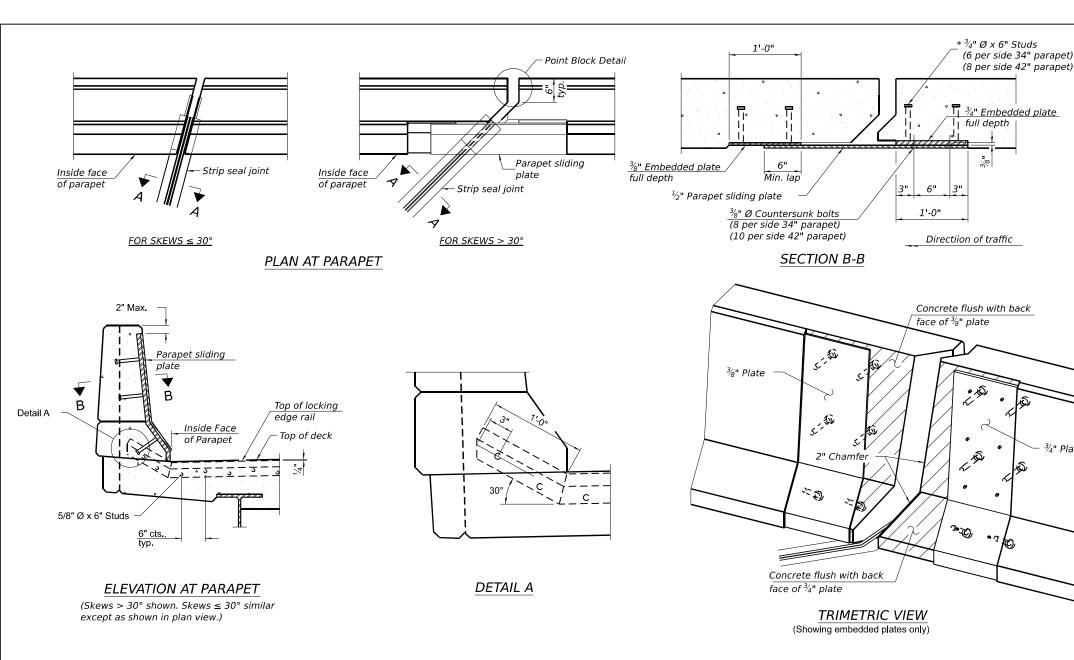
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Notes:

The strip seal shall be made continuous and shall have a minimum thickness of  $\frac{1}{4}$ ". 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. Locking edge rails may exceed the  $4\frac{1}{2}$ " maximum depth provided the anchorage system is revised according to the manufacturer's recommendation.

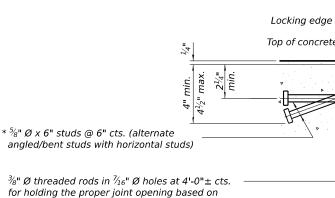
The manufacturer's recommended installation methods shall be followed.

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 c" 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, 42" F-shape similar as noted. 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.



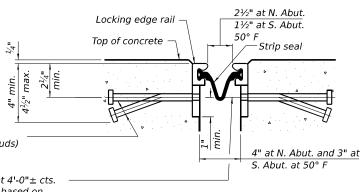
the temperature during the deck pour. Place to

SECTION A-A

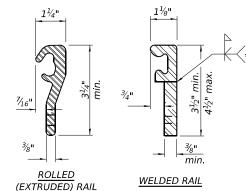
\* Granular or solid flux filled headed studs conforming to Article 1006.32 of the Std. Specs., automatically end welded.

miss studs. All rods shall be burned, or sawed

off flush with the plates after concrete is set.

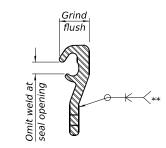


SHOWING WELDED RAIL JOINT



#### 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 | 68    |
|                            |      |       |

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2½" at N. Abut.

1½" at S. Abut.

Strip seal

50° F

SHOWING ROLLED RAIL JOINT

Locking edge rail

Top of concrete

 $\frac{3\frac{1}{8}"}{8}$  at N. Abut. and  $2\frac{1}{2}$ " at S. Abut. at 50° F

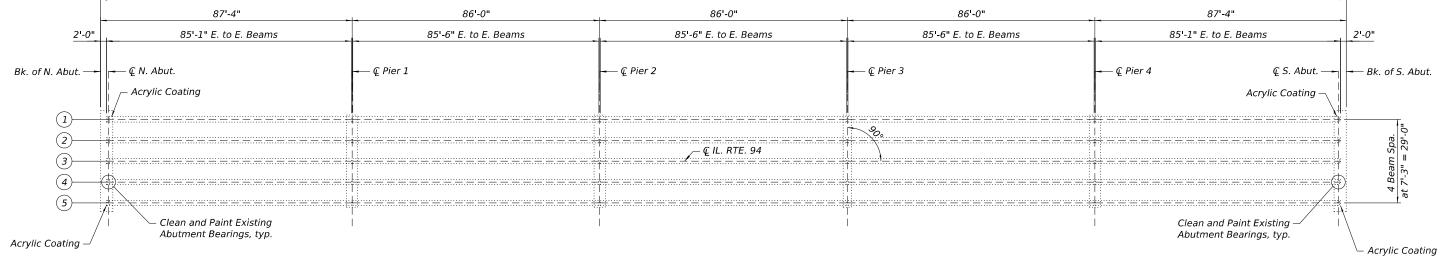
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PREFORMED JOINT STRIP SEAL STRUCTURE NO. 036-0047

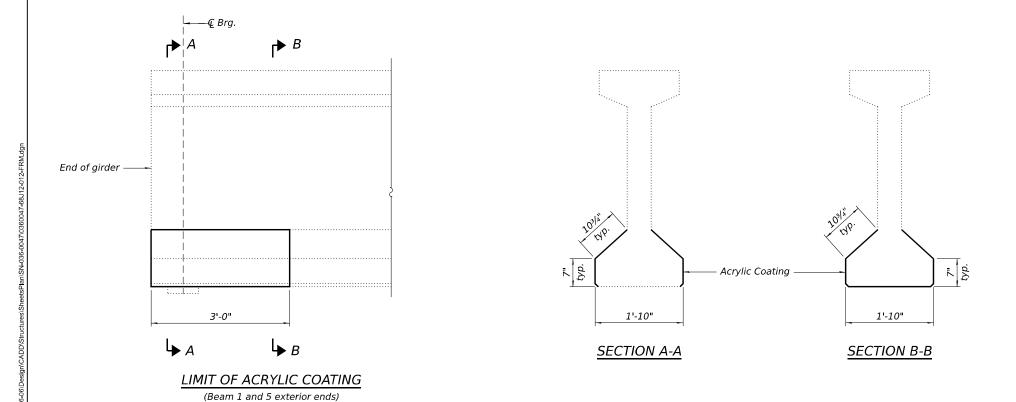
| A.<br>IE. | SECTION                        |         | COUNTY | TOTAL<br>SHEETS | SHEET<br>NO. |      |
|-----------|--------------------------------|---------|--------|-----------------|--------------|------|
| 4         | [106BC-1;108(C,(VB,VC)NRS)]BRR |         |        | HENDERSON       | 81           | 68   |
|           |                                |         |        | CONTRAC         | T NO. 6      | 8J12 |
|           |                                | BUINOIS | EED /  | ID DECT         |              |      |

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#### FRAMING PLAN



#### LEGEND

Acrylic Coating

Notes:

See Sheet 13 of 17 for bearing details.

#### **BILL OF MATERIAL**

| ITEM                           | UNIT  | QUANTITY |
|--------------------------------|-------|----------|
| Acrylic Coating                | Sq Yd | 7        |
| Cleaning and Painting Bearings | Each  | 10       |

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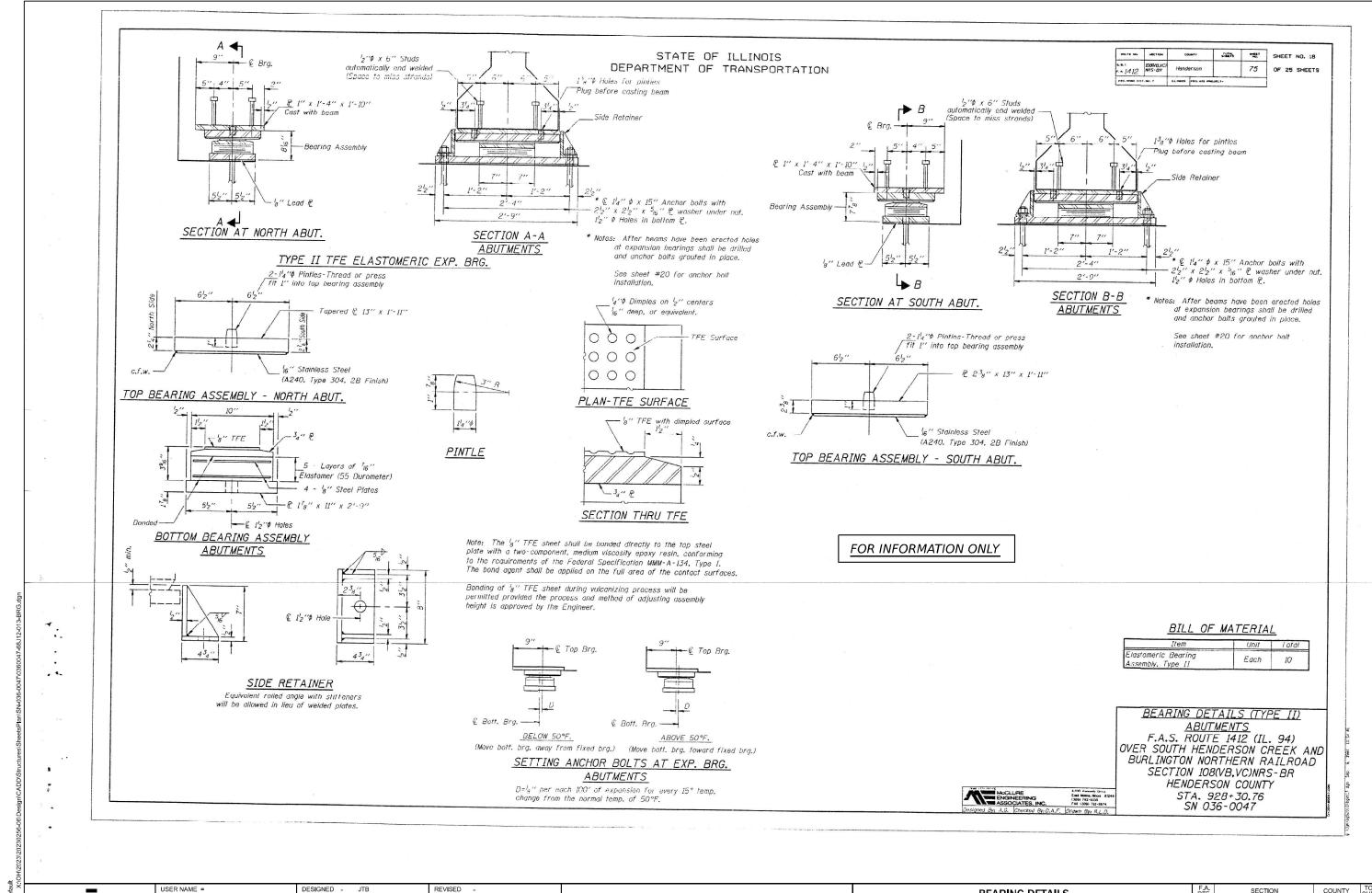
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FRAMING PLAN AND PPC I-BEAM REPAIR STRUCTURE NO. 036-0047

SHEET 12 OF 17 SHEETS



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STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION** 

**BEARING DETAILS** STRUCTURE NO. 036-0047 SHEET 13 OF 17 SHEETS

SECTION COUNTY 94 [106BC-1;108(C,(VB,VC)NRS)]BRR HENDERSON **81 70** CONTRACT NO. 68J12

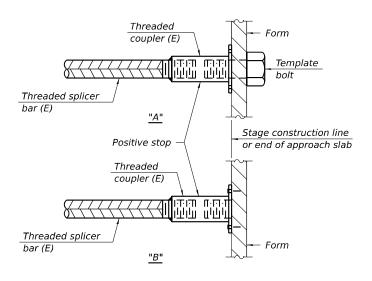
#### STANDARD BAR SPLICER ASSEMBLY PLAN

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

Threaded splicer bar length = min. lap length +  $1\frac{1}{2}$ " + thread length

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

| Leasting       | Bar  | No. assemblies | Minimum    |
|----------------|------|----------------|------------|
| Location       | size | required       | lap length |
| North Abutment | #6   | 4              | 3'-7"      |
| Exp. Jt.       | #7   | 2              | 4'-8"      |
| South Abutment | #6   | 4              | 3'-7"      |
| Exp. Jt.       | #7   | 2              | 4'-8"      |
|                |      |                |            |

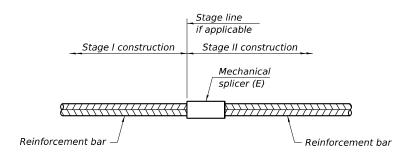


#### INSTALLATION AND SETTING METHODS

"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<br>size | No. assemblies<br>required |
|----------|-------------|----------------------------|
|          |             |                            |
|          |             |                            |
|          |             |                            |

Notes:

Splicer bars shall be deformed with threaded ends and have a minimum 60 ksi yield strength.

COUNTY

CONTRACT NO. 68J12

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.

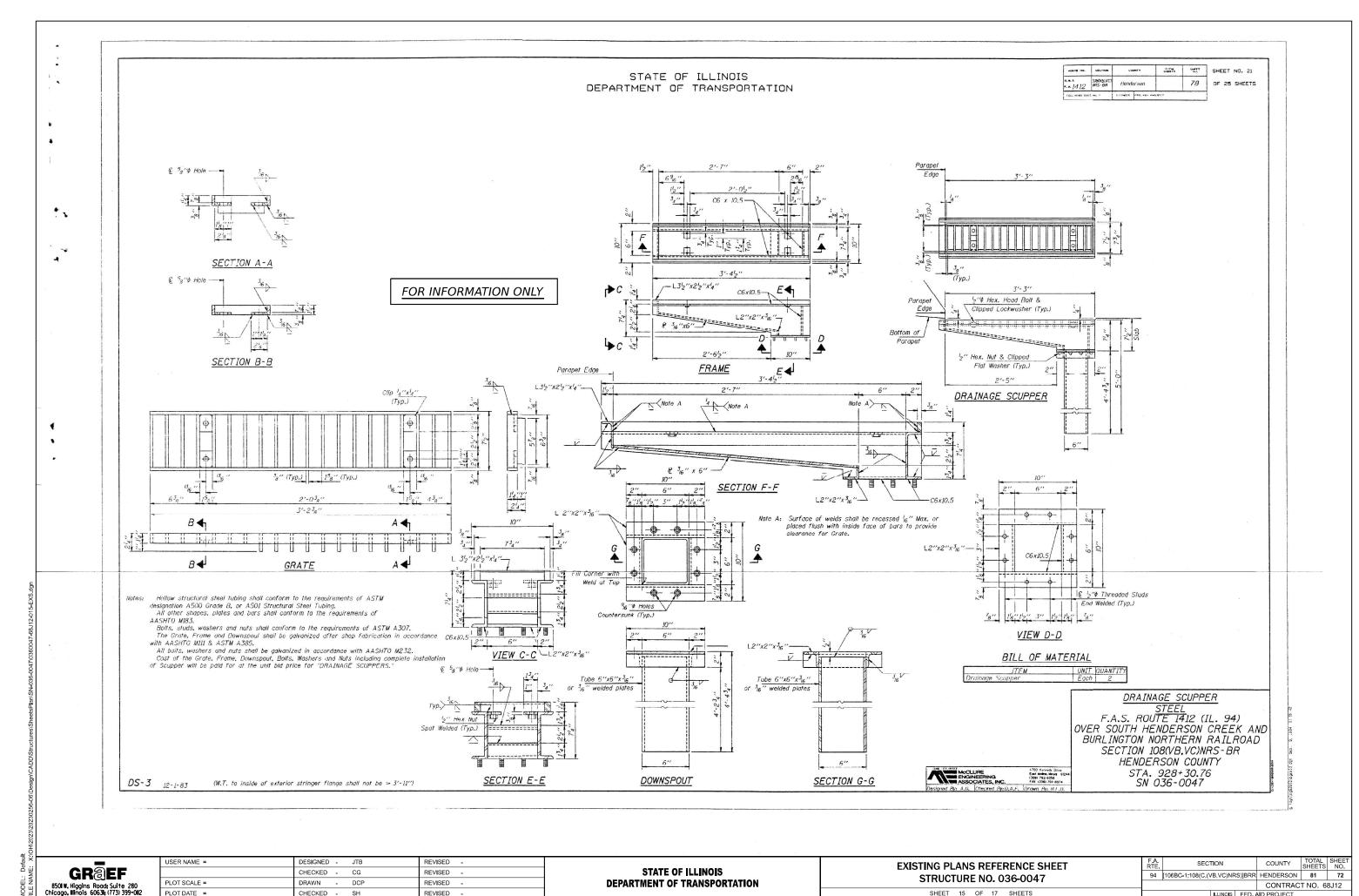
**GR**@EF 8501 W. Higgins Road; Suite 280 Chicago, Illinois 60631; (773) 399-0112 5-15-2023

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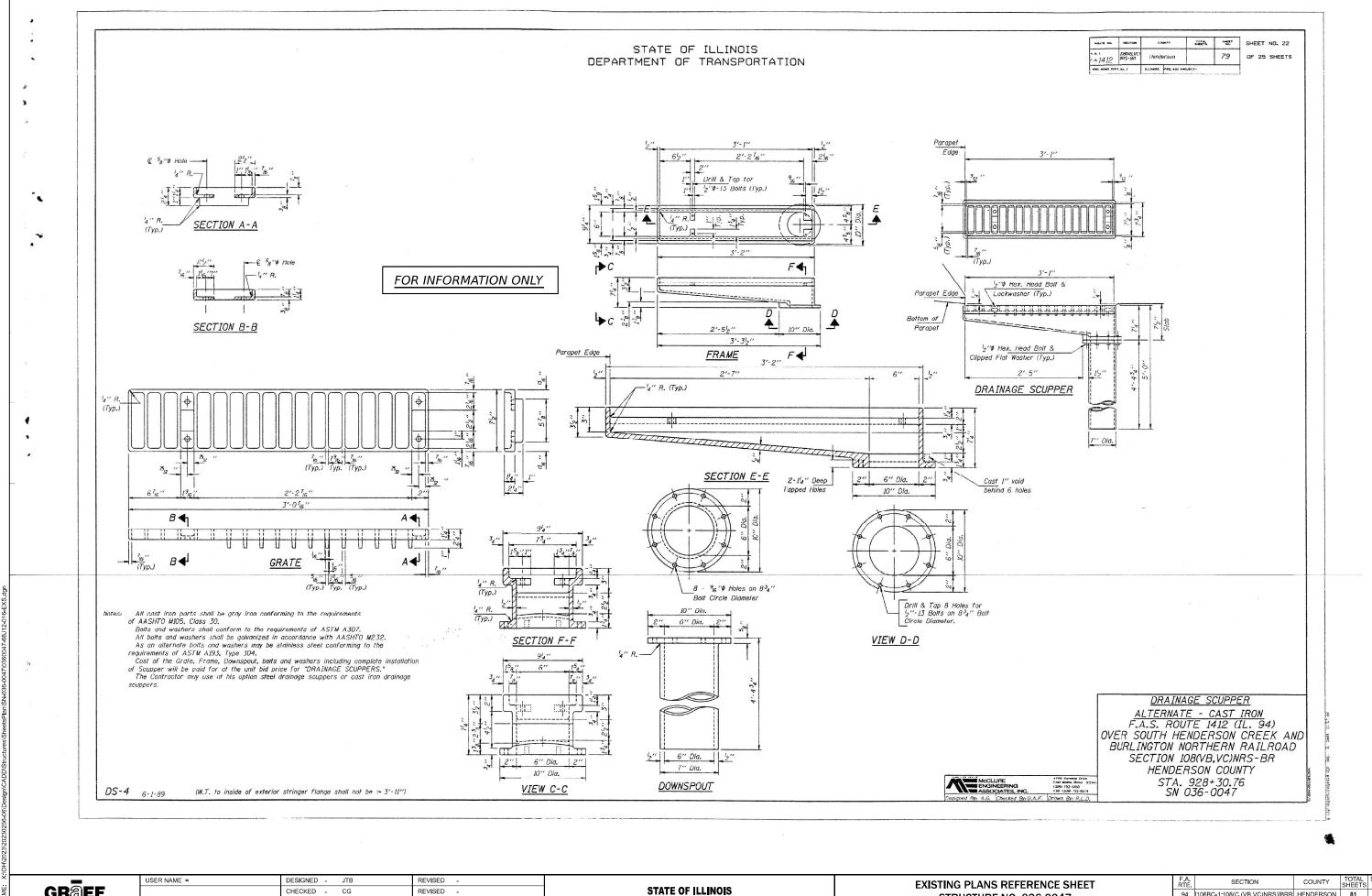
STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION** 

SECTION BAR SPLICER ASSEMBLY AND MECHANICAL SPLICER DETAILS 94 [106BC-1;108(C,(VB,VC)NRS)]BRR HENDERSON **81 71 STRUCTURE NO. 036-0047** SHEET 14 OF 17 SHEETS

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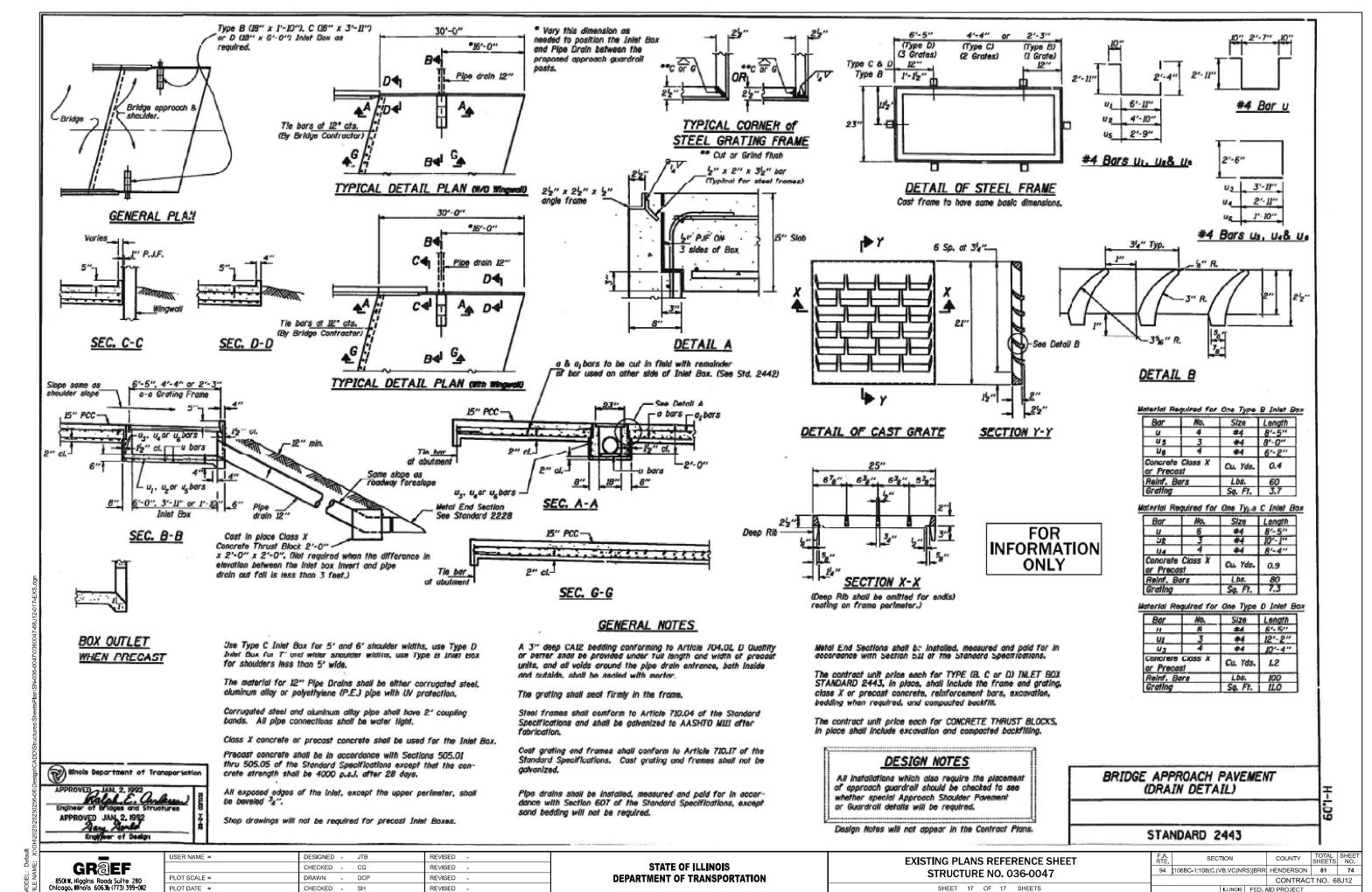
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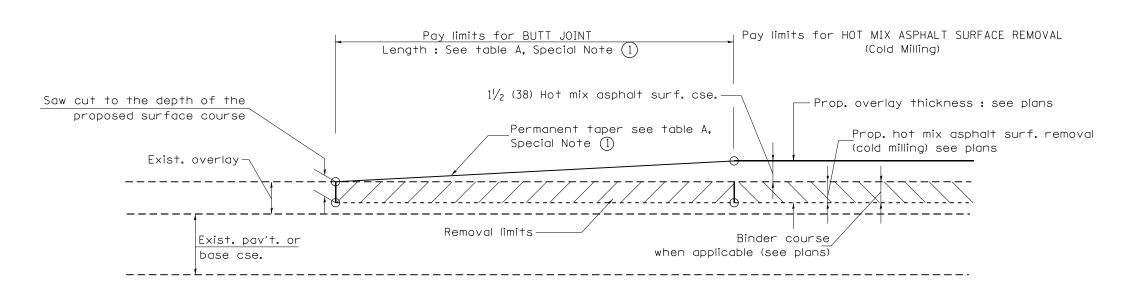
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STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**  **STRUCTURE NO. 036-0047** SHEET 16 OF 17 SHEETS

94 [106BC-1;108(C,(VB,VC)NRS)]BRR HENDERSON 81 73 CONTRACT NO. 68J12





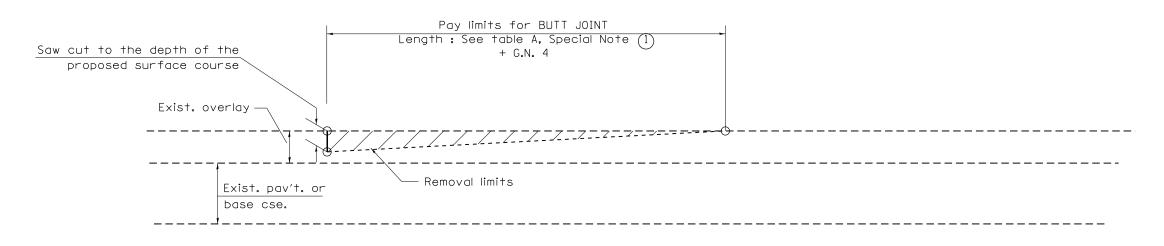
#### CASE 1: WITH HOT MIX ASPHALT SURFACE REMOVAL (COLD MILLING)

## TABLE A TAPER RATES

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

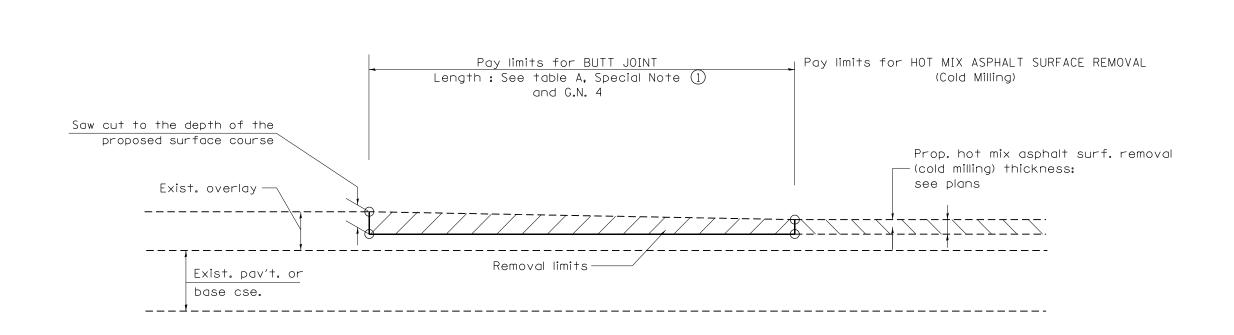
#### GENERAL NOTES

- 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.

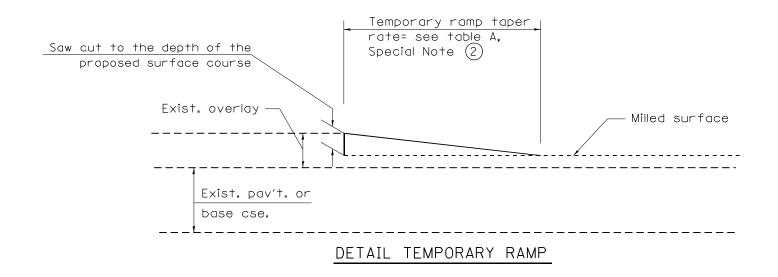


#### CASE 2 : NO HOT MIX ASPHALT SURFACE REMOVAL (COLD MILLING)

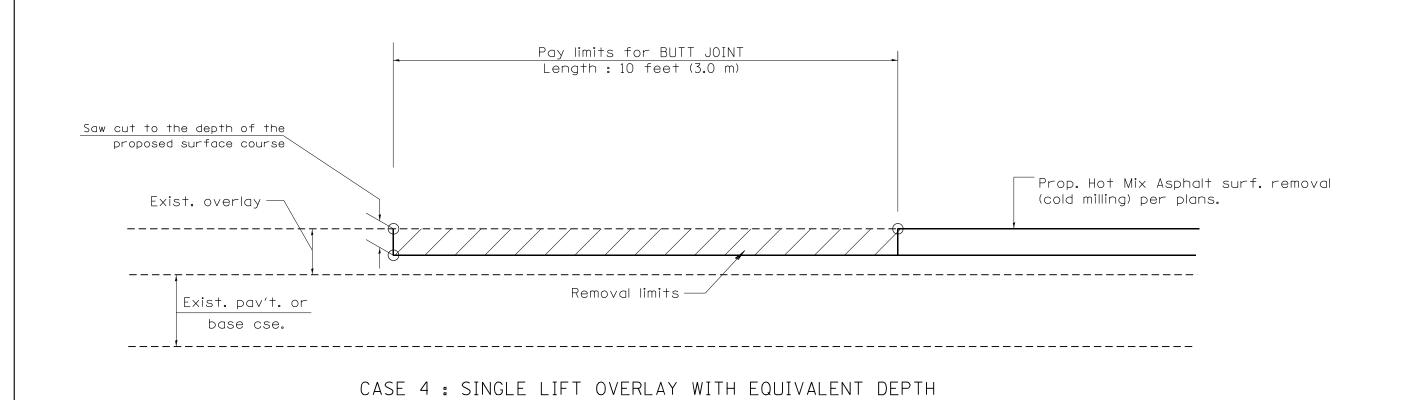
| 01 | 1-01-97 | RENUM. C-23.01, NEW REVISION BOX | T.P.   | 08-21-13 MAJOR MODIFICATIONS              | R.D. |                              |              |                     | F.A.<br>RTF.      | SECTION COUN | ITY TOTAL SHEETS | SHEET I |
|----|---------|----------------------------------|--------|-------------------------------------------|------|------------------------------|--------------|---------------------|-------------------|--------------|------------------|---------|
| 04 | 4-01-97 | CORRECTION TO DEPTH              | J.A.   | 04-12-16 MINOR CORRECTIONS                | R.D. | STATE OF ILLINOIS            | BUTT JOINTS  |                     |                   |              | 81               | 75      |
| 09 | 9-15-05 | REVISED DESIGNER NOTE            | M.M.A. | 02-14-17 ADDED NOTE 5                     | R.D. | DEPARTMENT OF TRANSPORTATION |              | SHT. 1 OF 3         |                   | CONTR        | RACT NO.         |         |
| 10 | 0-16-06 | REVISED TO 2007 SPEC.            | M.A.   | 07-16-19 Wording and Spelling corrections | R.D. |                              | NOT TO SCALE | CADD STD. 406101-D4 | FED. ROAD DIST. I |              |                  |         |



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



|  | STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION |              |                     | F.A. SECTION                   | COUNTY         | TOTAL<br>SHEETS | SHEET<br>NO. |
|--|------------------------------------------------|--------------|---------------------|--------------------------------|----------------|-----------------|--------------|
|  |                                                | BUTT JOINTS  |                     |                                |                | 81              | 76           |
|  |                                                |              | SHT. 2 OF 3         |                                | CONTRACT       | NO.             |              |
|  |                                                | NOT TO SCALE | CADD STD. 406101-D4 | FED. ROAD DIST. NO. ILLINOIS F | D. AID PROJECT |                 |              |



HOT MIX ASPHALT SURFACE REMOVAL (COLD MILLING)

TIE-IN TO EXISTING BITUMINOUS TAPER

|  | CTATE OF HUMOIC              | DUTT 1011170 |                     | RTE. SECTION                 | COUNTY           | SHEETS | NO. |
|--|------------------------------|--------------|---------------------|------------------------------|------------------|--------|-----|
|  | STATE OF ILLINOIS            | BUTT JOINTS  |                     |                              |                  | 81     | 77  |
|  | DEPARTMENT OF TRANSPORTATION |              | SHT. 3 OF 3         |                              | CONTRACT         | T NO.  |     |
|  |                              | NOT TO SCALE | CADD STD. 406101-D4 | FED. ROAD DIST. NO. ILLINOIS | FED. AID PROJECT |        |     |

COLLARS FOR BURIED ARE EQUAL TO OR CREATER THAN 1% AND AT INLETS. (INCLUDE DISTRICT GRADES ARE LESS THAN 1% (INCLUDE DISTRICT SPECIAL PROVISION). DIVIDING LINE IS OF. AS NEEDED: SLOPE DRAINS FOR EXPOSED PIPES; HRUST BLOCKS AND PIPE ELBOW.

E QUALITY" FOR PROJECTS LOCATED IN THE WESTER IFLES.

A FILES.

O FORESLOPE WITH RIPRAP. USE NON-METALLIC PIPE IV NOSE DISTRICT SPECIAL PROVISION FOR SEEDING, B" CURB PAY ITEM AT GUARDRAIL INSTALLATIONS WHERE GRADES REGATE EROSION CONTROL" AT GUARDRAIL INSTALLATIONS WHERE INDEAD GOIL, IF APPLICABLE.

ING DISTRICT CADD STANDARDS. AS NEEDED: SLOPE DRAINS FOR OR EXPOSED PIPES, CONCRETE THRUST BLOCKS AND PIPE ELBOW. TECS WHEN INSERTING INTO PLAN FILES.

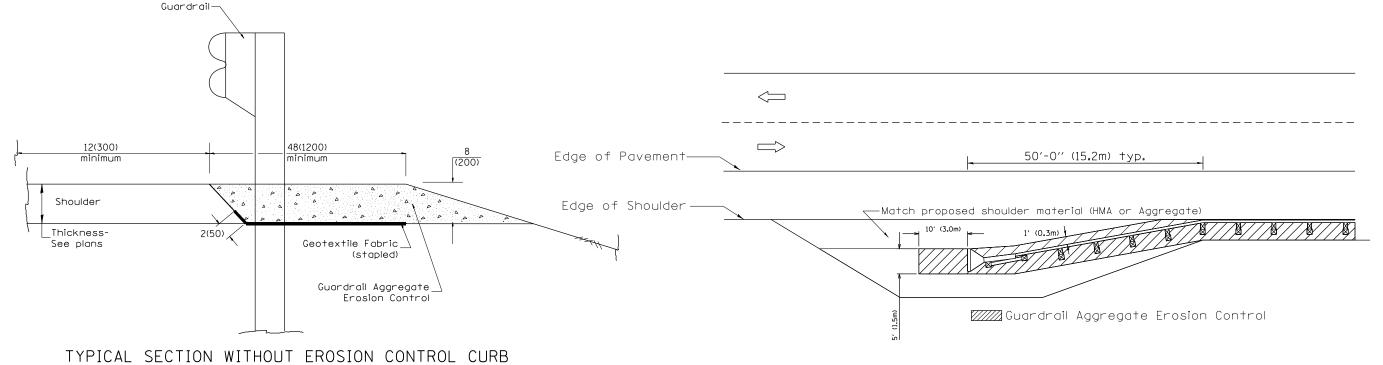
IES WHEN INSERTING INTO PLAN FILES.

USE OF PIPE OULLETTING ONTO FORESLOPE WITH RIPRAP. USE NO. IS PAID FOR INTERIOR PROFILES. 4.5.5.

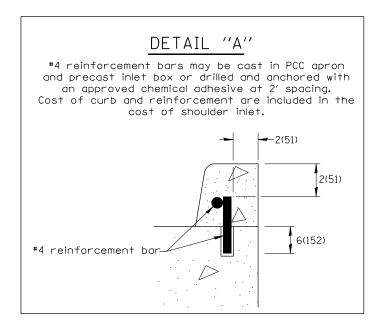
48(1200) minimum Guardrlail-/(100) PCC or Bituminous Shoulder (100) Thickness-See plans Geotextile Fabric (stapled) Comb. CC&G, Type B Pan Width - See Plans Guardrail Aggregate\_ Erosion Control TYPICAL SECTION WITH COMBINATION CONCRETE CURB & GUTTER

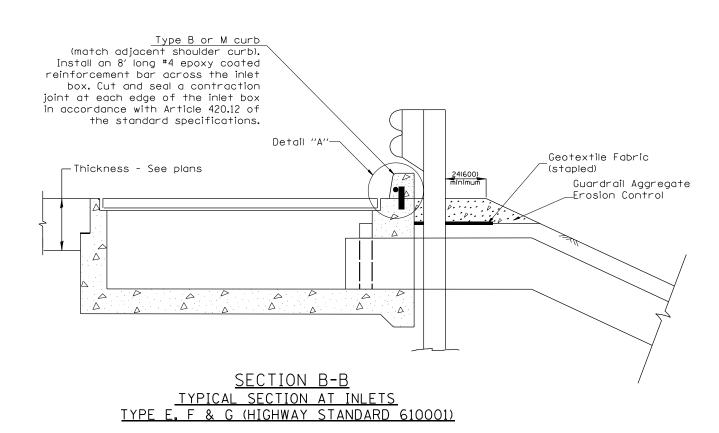
#### GENERAL NOTES: GUARDRAIL AGGREGATE EROSION CONTROL

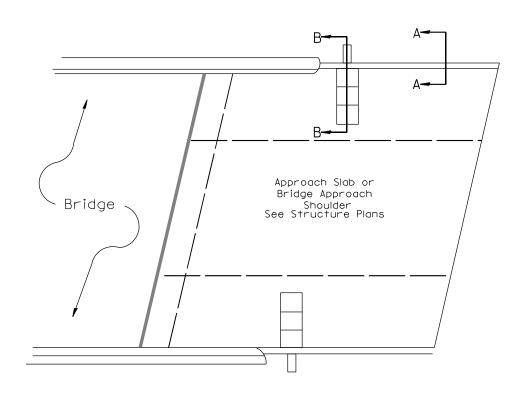
- 1. This work shall consist of grading as needed, furnishing and installing geotextile fabric and staples, and furnishing, placing and shaping crushed aggregate around and behind Steel Plate Beam Guardrail posts in accordance with Plan Details.
- 2. Before placing the aggregate and the Geotextile Fabric, 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.



| 03-07- | 1 ADDED DETAIL SHOWING PLAN VIEW | R.D. | 5-30-18 CHANGE B CURB TO CC&G | R.D. |                              |                                      | F.A. SECTION                      | COUNTY TOTAL SHEET SHEET NO. |
|--------|----------------------------------|------|-------------------------------|------|------------------------------|--------------------------------------|-----------------------------------|------------------------------|
| 08-10- | 2 REVISED CURB "B" AND AGGREGATE | R.D. | 07-16-19 SPELLING CORRECTIONS | R.D. | STATE OF ILLINOIS            | GUARDRAIL EROSION CONTROL TREATMENTS | 7772                              | 81 78                        |
| 07-15- | 5 ADDRESSED SHOULDER INLET CURB  | R.D. |                               |      | DEPARTMENT OF TRANSPORTATION | SHT. 1 OF                            |                                   | CONTRACT NO.                 |
| 01-26- | 7 REVISED                        | R.D. |                               |      |                              | NOT TO SCALE CADD STD. 630101-       | FED. ROAD DIST. NO. ILLINOIS FED. | AID PROJECT                  |

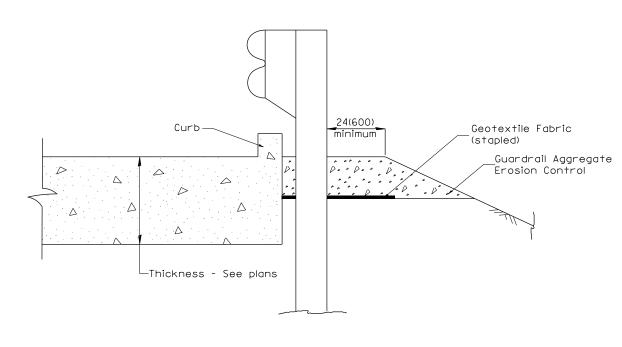






PLAN VIEW

APPROACH SLAB OR SHOULDER PLACEMENT

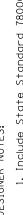


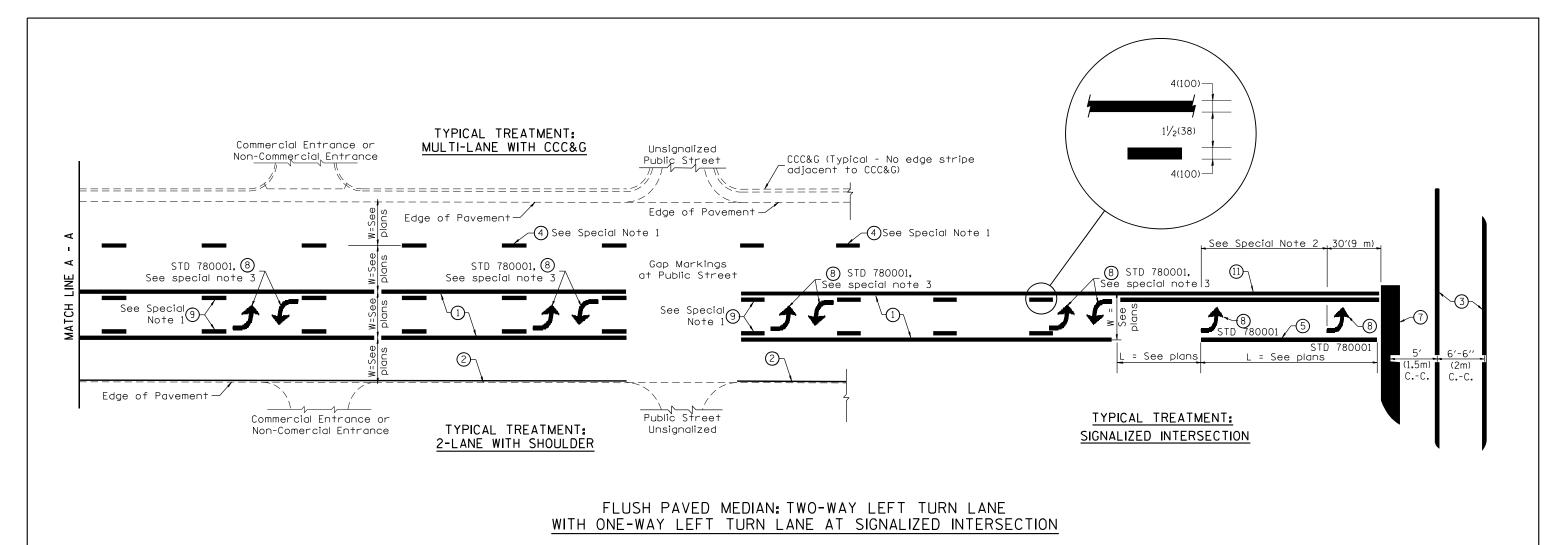
SECTION A-A

TYPICAL SECTION WITH BRIDGE APPROACH CURB

|  | 07475 05 11411040            |                                      | RTE.          | SECTION COUNTY                                    | Y TOTAL S | NO.    |
|--|------------------------------|--------------------------------------|---------------|---------------------------------------------------|-----------|--------|
|  | STATE OF ILLINOIS            | GUARDRAIL EROSION CONTROL TREATMENTS |               |                                                   | 81        | 79     |
|  | DEPARTMENT OF TRANSPORTATION | SHT. 2 OF                            | 2             | CONTRA                                            | ACT NO.   | $\neg$ |
|  |                              | NOT TO SCALE CADD STD. 630101-       | -D4 FED. ROAD | 4 FED. ROAD DIST. NO.   ILLINOIS FED. AID PROJECT |           |        |







#### TYPICAL PAVEMENT MARKING LEGEND

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

- 4(100) Solid (Yellow)
- 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.)
- 6(150) Skip-Dash (White)
- 8(200) Solid (White)
- 12(300) Diagonal (White) (Item 6) is shown on Std. 780001)
- 24(600) Stop Bar (White)
- Letters & Arrows (See Std. 780001 and Special Notes 2 & 3)
- 4(100) Skip-Dash (Yellow) (See Special Note 1)

(See Special Note 1)

12(300) Diagonal (Yellow) (See Table A) 4(100) Double Solid (Yellow)

11(280) C.-C.

#### SPECIAL NOTES

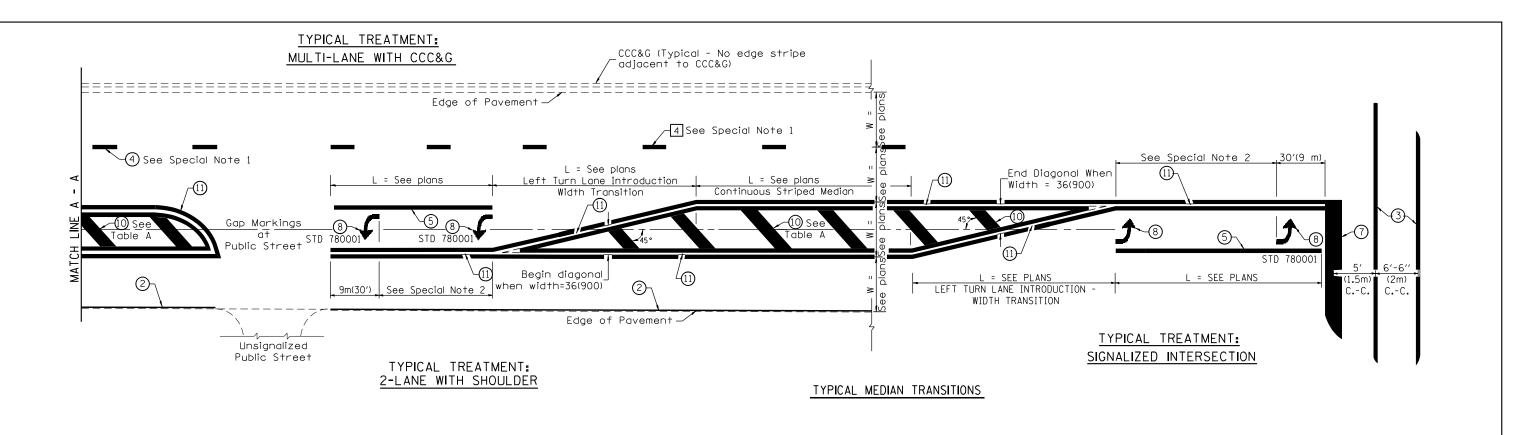
- 1. Skip-Dash markings will be centered between both ends of city blocks and shall be placed in alignment transversely across the pavement.
- 2. The following shall apply to arrows located in one-way left turn lanes:
  - A. A minimum of two (2) arrows is required.
  - The maximum spacing between arrows 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. The maximum spacing between arrow pairs
  - 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

- 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. |      |                              |                          |                     | F.A.<br>RTF. | SECTION                    | COUNTY    | TOTAL | SHEET<br>NO. |
|------------------------------------------|------|--------------------------------|------|------------------------------|--------------------------|---------------------|--------------|----------------------------|-----------|-------|--------------|
| 02-07-97 ADD BI DIRECTIONAL DIMENSION    | J.A. | 2/29/16 ADDED GROOVING AREAS   | R.D. | STATE OF ILLINOIS            | TYPICAL PAVEMENT MARKING | 3                   |              |                            |           | 81    | 80           |
| 10-97 CORRECT BI DIRECTIONAL DIMENSION   | J.A. | 07-16-19 SPELLING CORRECTIONS  | R.D. | DEPARTMENT OF TRANSPORTATION |                          | SHT. 1 OF 2         |              |                            | CONTRACT  | NO.   |              |
| 08-02 ADD CROSSWALK DMNS. WITH T.S.      | M.A. |                                |      |                              | NOT TO SCALE             | CADD STD. 780001-D4 | FED. ROAD    | DIST. NO. ILLINOIS FED. AI | D PROJECT |       |              |

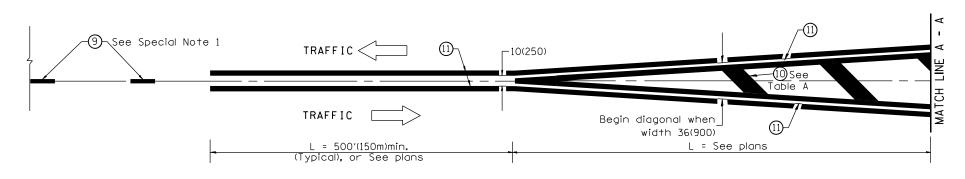
is 200' (61 m).



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

# TABLE A RECOMMENDED SPACING BETWEEN DIAGONAL LINES

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



#### MEDIAN INTRODUCTION - WIDTH TRANSITIONS

|  |                              |                                           | F.A.<br>RTE. | SECTION COUNT                         | TY SHEETS | SHEET<br>NO. |
|--|------------------------------|-------------------------------------------|--------------|---------------------------------------|-----------|--------------|
|  | STATE OF ILLINOIS            | TYPICAL PAVEMENT MARKINGS                 |              |                                       | 81        | 81           |
|  | DEPARTMENT OF TRANSPORTATION | SHT. 2 C<br>NOT TO SCALE CADD STD. 780001 | - 2          | DIST. NO.   ILLINOIS FED. AID PROJECT |           |              |