

INDEX OF SHEETS

03-11-2022 LETTING ITEM 042

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HIGHWAY STANDARDS

701400-11	701428-01
701401-13	701601-09
701402-12	701901-08
701406-13	704001-08
701411-09	780001-05
701426-09	782006-01

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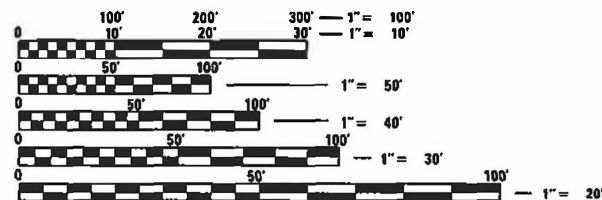
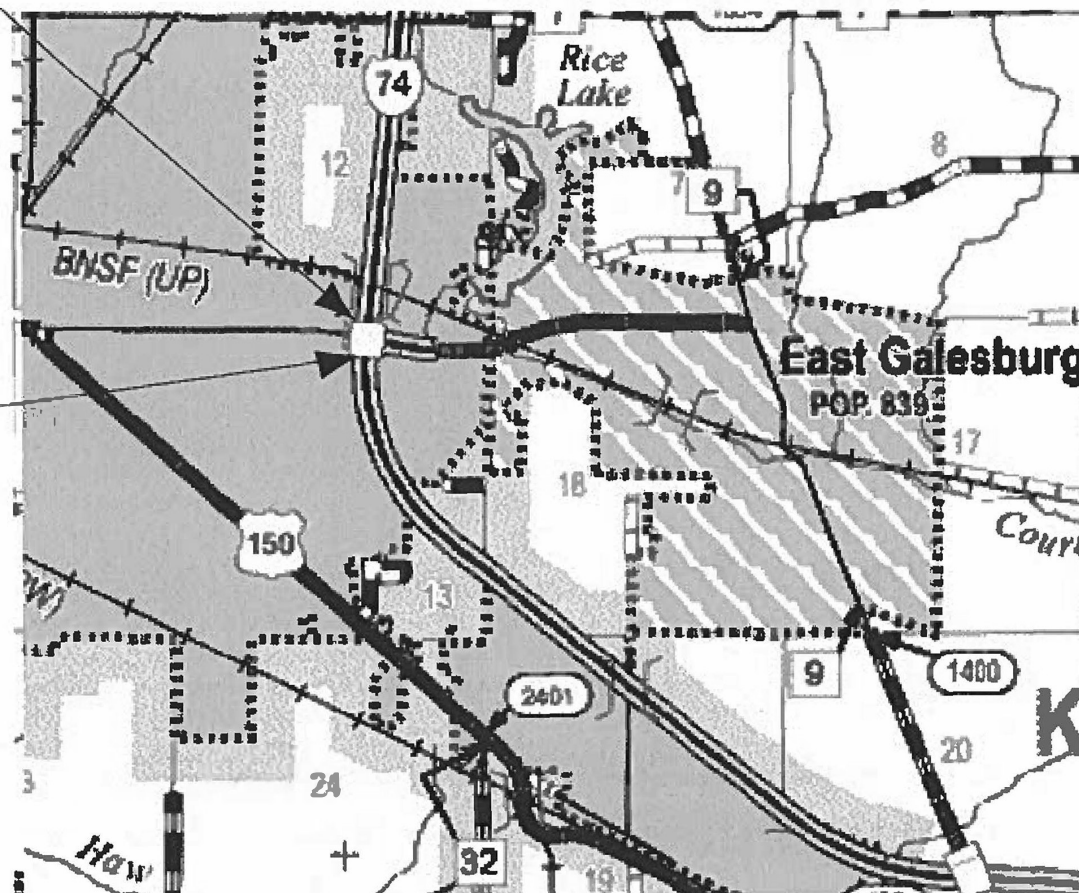
INTERSTATE

I-74
 ADT: 16400 (2019)
 MU: 3608 (2019)
 SU: 492 (2019)

PROJECT BEGINS
 STA 345+75

SN 048-0009 EB
 SN 048-0010 WB

PROJECT ENDS
 STA 351+15



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

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

PROJECT ENGINEER: RICH DOTSON (309)671-3455
 PROJECT MANAGER: MICHAEL JACOBS (309)671-3460
 CONTALOG NO. 036076-00D
 CONTRACT NO. 68F73

STATE OF ILLINOIS

DEPARTMENT OF TRANSPORTATION

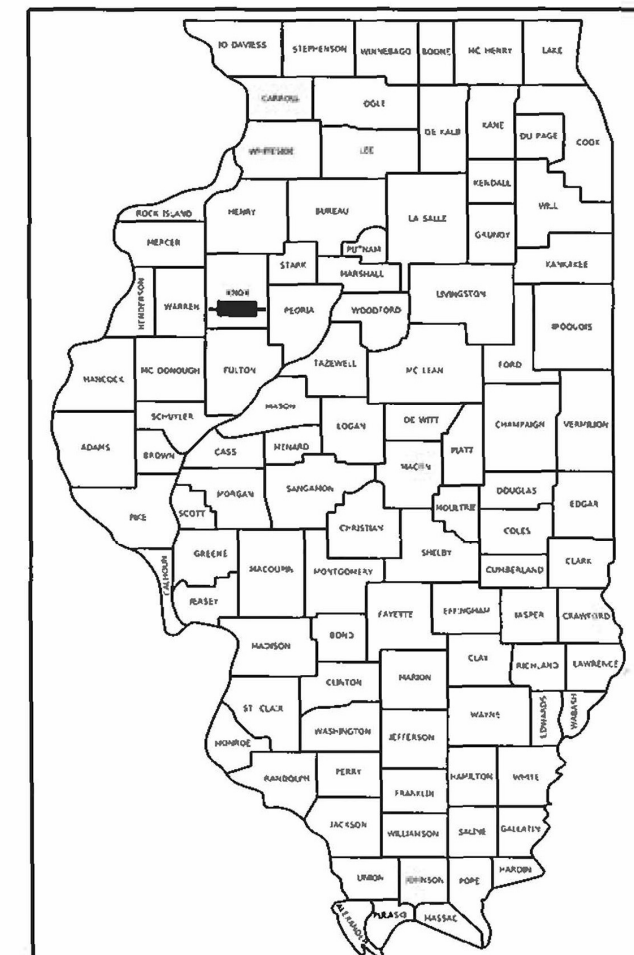
**PROPOSED
 HIGHWAY PLANS**

FAI ROUTE 74 (I-74)
 SECTION [(48-27HB)BY,BY-1]BDR,BJR,BRR
 PROJECT NHPP-2GI6(793)
 BRIDGE PRESERVATION
 KNOX COUNTY
 C-94-097-20

GROSS LENGTH = 540 FT. = 0.1 MILE
 NET LENGTH = 540 FT. = 0.1 MILE

F.A.I. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	[(48-27HB)BY,BY-1]BDR,BJR,BRR	KNOX	40	1
		ILLINOIS	CONTRACT NO. 68F73	

D-94-065-20



LOCATION OF SECTION INDICATED THUS: - [thick black line]

PROJECT DESCRIPTION:
 BRIDGE DECK OVERLAY, BRIDGE JOINT REPLACE/REPAIR, BRIDGE REPAIR TO SN 048-0009 AND -0010 CARRIING I-74 OVER EAST MAIN STREET IN GALESBURG.

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

SUBMITTED December 8, 2022
[Signature]
 REGION THREE ENGINEER

February 4, 2022
[Signature]
 ENGINEER OF DESIGN AND ENVIRONMENT

February 4, 2022
[Signature]
 DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

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 OF THE STATE OF ILLINOIS**

COMMITMENTS

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

There are no commitments

ENVIRONMENTAL REVIEWS

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

The required environmental resource documentation shall include the following:

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

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

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

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

BRIDGE OVERLAY NOTIFICATION

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

CROSSING EXISTING STRUCTURES WITH EQUIPMENT

The following structures: SN 048-0009 and SN 048-0010, may be crossed with the empty MTD with a maximum gross weight of 40 tons per bridge.

MIXTURE USE(S):	POLYMER SURFACE 1.5" *	CLASS D PATCH 17"
AC/PG	SBS OR SBR 76-28	SBS OR SBR 76-28
DESIGN AIR VOIDS:	4.0% @ N=70	4.0% @ N=70
MIXTURE COMPOSITION: (MIXTURE GRADATION)	IL 9.5	IL 19.0
FRICTION AGGREGATE:	MIX D	NA
QUALITY MANAGEMENT PROGRAM:	QCQA	QCQA

*Material Transfer Device - Yes

POLYMERIZED BITUMINOUS MATERIALS (TACK COAT) RATES.

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

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CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTR. CODE	
				90% FED	10% STATE
				ROADWAY	
				0013	URBAN
40600295	POLYMERIZED BITUMINIOUS MATERIALS (TACK COAT)	POUND	2665	2665	
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	600	600	
40600990	TEMPORARY RAMP	SQ YD	293	293	
40604162	POLYMERIZED HOT MIX ASPHALT SURFACE COURSE, 1L-9.5 MIX "D", N70	TON	311	311	
44201851	CLASS D PATCHES, TYPE II, 17 INCH	SQ YD	60	60	
44201855	CLASS D PATCHES, TYPE III, 17 INCH	SQ YD	194	194	
48101200	AGGREGATE SHOULDERS, TYPE B	TON	58	58	
50102400	CONCRETE REMOVAL	CU YD	25.0	25.0	
50300225	CONCRETE STRUCTURES	CU YD	48.2	48.2	
50300255	CONCRETE SUPERSTRUCTURE	CU YD	27.7	27.7	
50300260	BRIDGE DECK GROOVING	SQ YD	1,670.5	1,670.5	
50300300	PROTECTIVE COAT	SQ YD	1,797.0	1,797.0	
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	7,970.0	7,970.0	
50800515	BAR SPLICERS	EACH	56	56	
52000110	PREFORMED JOINT STRIP SEAL	FOOT	185.0	185.0	
60260100	INLETS TO BE ADJUSTED	EACH	1	1	
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	8	8	

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	[(48-27)BY-BY-1]BDR.B.R.BRR	KNOX	40	3
CONTRACT NO. 6BF73				
ILLINOIS FED. AID PROJECT				

RESURFACING TABLE

LOCATION	LENGTH	WIDTH	AREA	BIT. SURFACE REMOVAL	TEMP RAMP	POLY HMA SURFACE	POLY BIT. MAT.	MATERIAL
				BUTT JOINT		IL 9.5	TACK COAT	TRANSFER DEVICE
WBL	FOOT	FOOT	SQ YD	SQ YD	SQ YD	TON	POUND	TON
STA. 345 + 75 - STA 346 + 35	60	50	333.3		45	28	240	28
STA. 346 + 35 - STA 347 + 50	115	50	638.9		45	53.7	460	53.7
BRIDGE OMISSION								
STA. 349 + 38 - STA 350 + 55	117	54	702		45	59	505.4	59
STA. 350 + 55 - STA 351 + 15	60	54	360		50	30.2	259.2	30.2
SUBTOTAL				333.3	185	170.9	1464.6	170.9
EBL								
STA. 345 + 75 - STA 346 + 35	60	40	266.7		27	22.4	192	22.4
STA. 346 + 35 - STA 347 + 50	115	42	536.7		27	45.1	386.4	45.1
BRIDGE OMISSION								
STA. 349 + 27 - STA 350 + 55	128	42	597.3		27	50.2	430.1	50.2
STA. 350 + 55 - STA 351 + 15	60	40	266.7		27	22.4	192	22.4
SUBTOTAL				266.7	108	140.1	1200.5	140.1
TOTAL				600	293	311	2665.1	311

CLASS D PATHCES, TYPE III 17 INCH *

LOCATION	DRIVING LANE			PASSING LANE			RIGHT SHOULDER		
	WIDTH	LENGTH	AREA	WIDTH	LENGTH	AREA	WIDTH	LENGTH	AREA
	FT	FT	SQ YD	FT	FT	SQ YD	FT	FT	SQ YD
WEST BOUND LANE									
STA. 347 + 05	TO	347 + 20	12	15	20	12	15	20	
STA. 349 + 68	TO	349 + 83	12	15	20	12	15	20	
SUBTOTAL					40			40	
EAST BOUND LANE									
STA. 347 + 05	TO	347 + 20	12	15	20	12	15	20	10
STA. 349 + 57	TO	349 + 72	12	15	20	12	15	20	10
SUBTOTAL					40			40	33.4
TOTAL									194

* REMOVAL OF THE EXISTING PAVEMENT CONNECTOR AND REPLACEMENT WITH CLASS D PATCHES SHALL BE PAID FOR AS "CLASS D PATCHES, TYPE III 17 INCH"

CLASS D PATHCES, TYPE II 17 INCH *

LOCATION	LEFT SHOULDER			RIGHT SHOULDER		
	WIDTH	LENGTH	AREA	WIDTH	LENGTH	AREA
	FT	FT	SQ YD	FT	FT	SQ YD
WEST BOUND LANE						
STA. 347 + 05	TO	347 + 20	6	15	10	6
STA. 349 + 68	TO	349 + 83	6	15	10	6
SUBTOTAL					20	20
EAST BOUND LANE						
STA. 347 + 05	TO	347 + 20	6	15	10	
STA. 349 + 57	TO	349 + 72	6	15	10	
SUBTOTAL					20	
TOTAL					60	

* REMOVAL OF THE EXISTING PAVEMENT CONNECTOR AND REPLACEMENT WITH CLASS D PATCHES SHALL BE PAID FOR AS "CLASS D PATCHES, TYPE II 17 INCH"

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SCHEDULE OF QUANTITIES

SCALE: SHEET 55 OF 505 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	1148-278(BY,BY-1)BOR,BIR,BRR	KNOX	40	6
				CONTRACT NO. 68F73
ILLINOIS FED AID PROJECT				

LOCATION	MOBILIZATION	ENGINEER'S FIELD OFFICE TYPE A	CHANGEABLE MESSAGE SIGN	TRAFFIC CONTROL AND PROTECTION STANDARD 701406	TRAFFIC CONTROL AND PROTECTION STANDARD 701401	TRAFFIC CONTROL AND PROTECTION STANDARD 701402	TRAFFIC CONTROL AND PROTECTION STANDARD 701411	TRAFFIC CONTROL AND PROTECTION STANDARD 701601	TRAFFIC CONTROL SURVEILLANCE
	LSUM	CAL MO	CAL DAY	LSUM	LSUM	EACH	EACH	LSUM	CAL DA
JOBSITE	1	8	14	1	1	2	4	1	10
TOTAL	1	8	14	1	1	2	4	1	10

LOCATION	TEMPORARY CONCRETE BARRIER	RELOCATE TEMPORARY CONCRETE BARRIER	IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE) TEST LEVEL 3	IMPACT ATTENUATORS, RELOCATE (NON-REDIRECTIVE), TEST LEVEL 3	TEMPORARY PAVEMENT MARKING LINE 4", TYPE IV TAPE		PAVEMENT MARKING BLACKOUT TAPE, 5"	PAVEMENT MARKING BLACKOUT TAPE, 7"	SHORT TERM PAVEMENT MARKING REMOVAL
	FOOT	FOOT	FOOT	FOOT	YELLOW FOOT	WHITE FOOT	FOOT	FOOT	SQ FT
WBL									
SN 048-0010	494	494	1	1	3500	2718	845	200	2542
EBL									
048-0009	494	494	1	1	3500	2718	845	200	2542
TOTAL	988	988	2	2	7000	5436	1690	400	5084

LOCATION	MODIFIED URETHANE PAVEMENT MARKING - LINE 4"		MODIFIED URETHANE PAVEMENT MARKING - LINE 6"	GROOVING FOR RECESSED PAVEMENT MARKING 5"	GROOVING FOR RECESSED PAVEMENT MARKING 7"
	SOLID	SOLID	SKIP		
	YELLOW	WHITE	WHITE		
	FOOT	FOOT	FOOT	FOOT	FOOT
WBL					
STA 345+75 - 351+15	540	540	270	1080	270
EBL					
STA 345+75 - 351+15	540	540	135	1080	135
TOTAL	2160		405	2160	405

GUARDRAIL AGGREGATE EROSION CONTROL	
LOCATION	TONS
WB	14
EB	9
TOTAL	24

AGGREGATE SHOULDERS TYPE B	
LOCATION	TONS
WBL	
STA 345+75 - 351+15	29
EBL	
STA 345+75 - 351+15	29
TOTAL	58

INLETS TO BE ADJUSTED	
LOCATION	EACH
WB	
STA. 349+60	1
TOTAL	1

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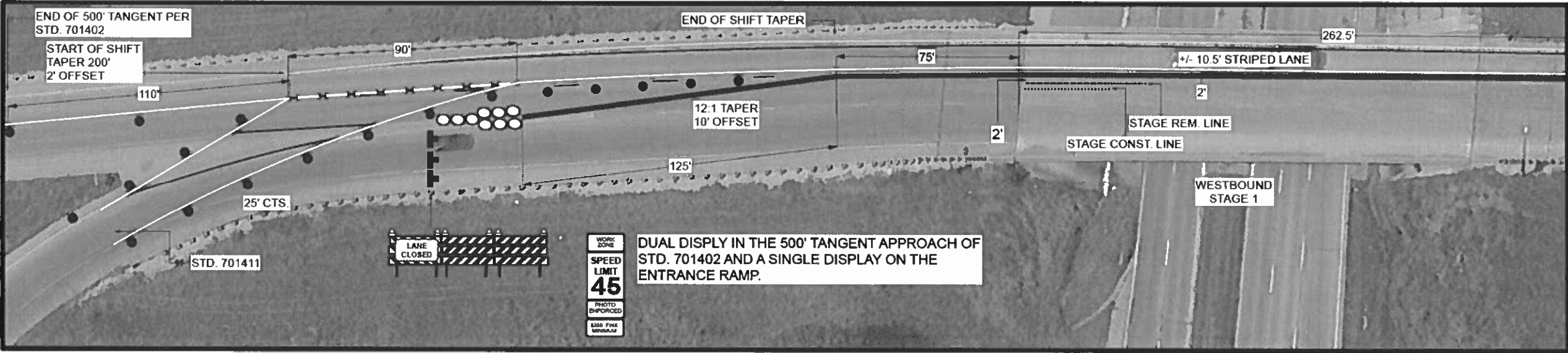
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES

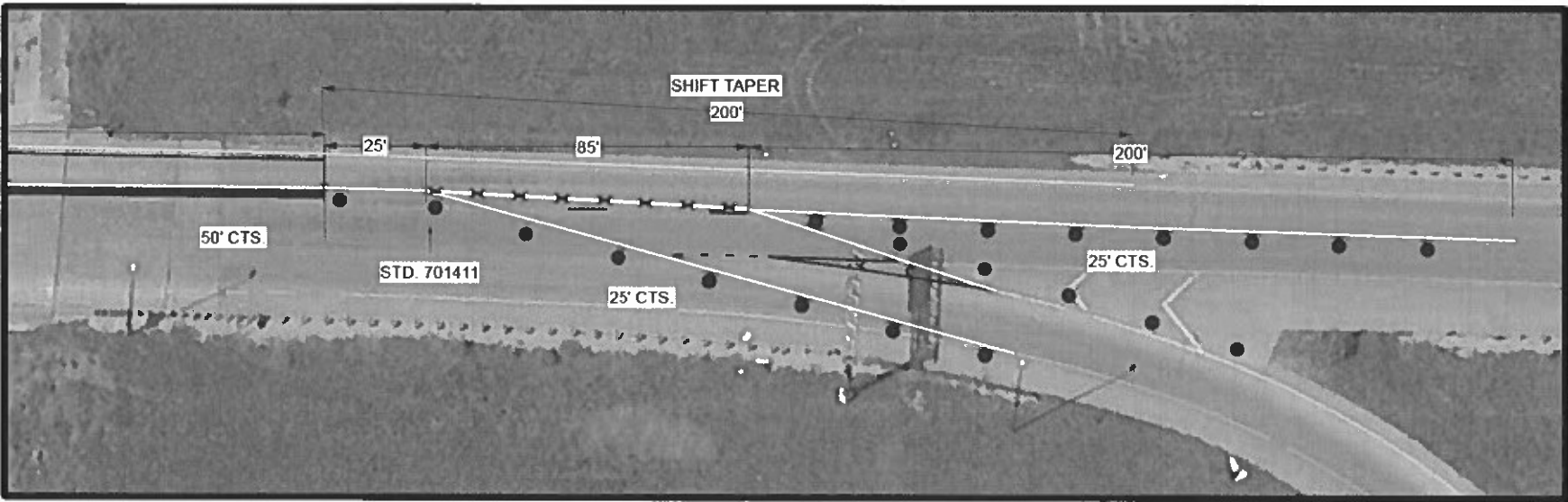
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	[(48-27)BIBY BY 1]BDR.BIR.BRR	KNOX	40	7
CONTRACT NO. 68F73				
ILLINOIS FED. AID PROJECT				

WESTBOUND-STAGE 1 DETAILS



DUAL DISPLY IN THE 500' TANGENT APPROACH OF STD. 701402 AND A SINGLE DISPLAY ON THE ENTRANCE RAMP.



NOTES:
 DETAIL USED IN CONJUNCTION WITH HIGHWAY STANDARDS 701400, 701402, AND 701411. DETAILS SHOWN HEREIN SHALL BE INCIDENTAL TO TRAFFIC CONTROL PAY ITEMS. PAVEMENT MARKINGS (AND REMOVAL), RELOCATE TEMPORARY CONCRETE BARRIER, RELOCATE TEMPORARY ATTENUATORS, AND ETC. SHALL BE PAID AS SHOWN IN THE SUMMARY OF QUANTITIES. RIGHT EDGE LINE-4" WHITE. LEFT EDGE LINE-4" YELLOW. 6" BLACK-OUT TAPE USED TO COVER CONFLICTING EXISTING PAVEMENT MARKINGS. TEMP. CONC. BARRIER SHALL BE PLACED 2' BEYOND THE PAVEMENT REMOVAL LINE.

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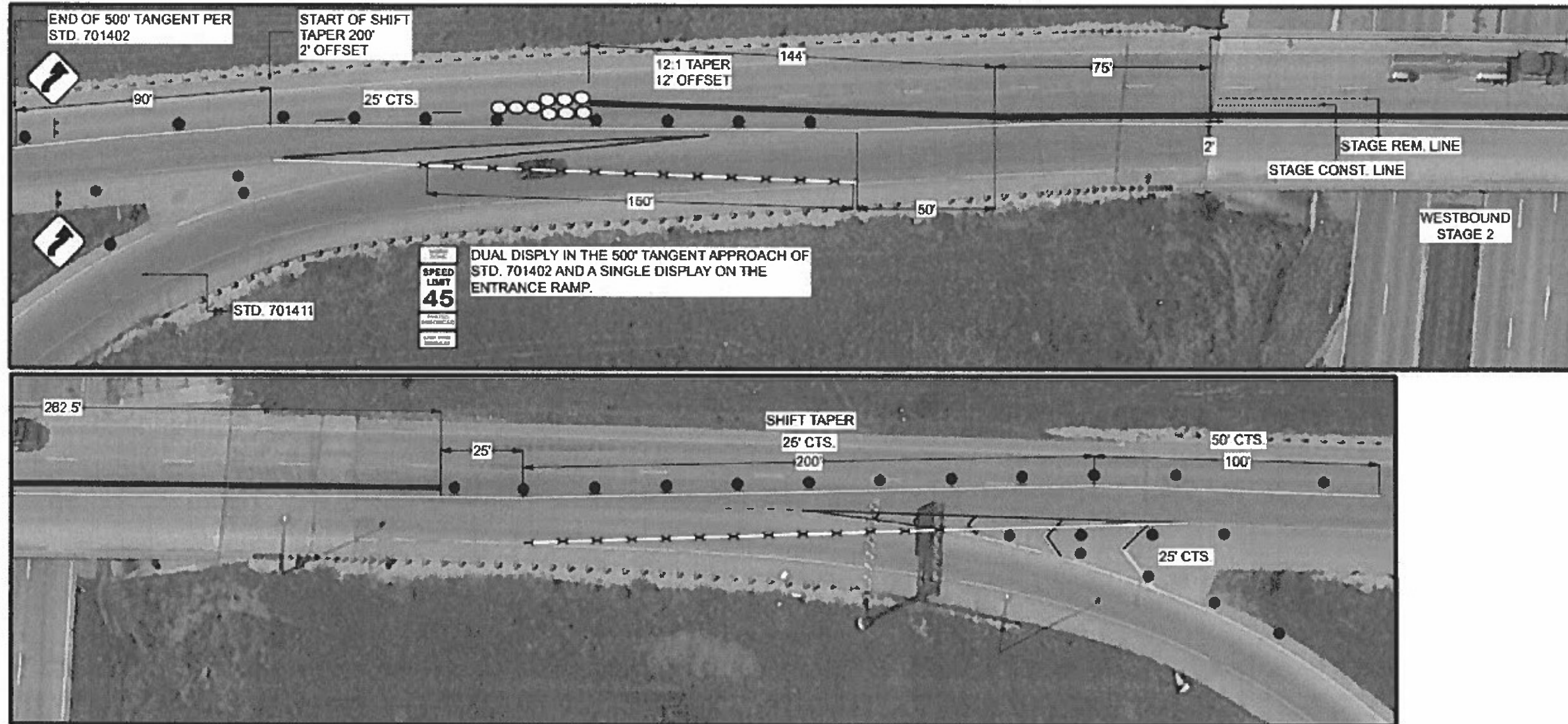
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STAGING PLANS	
SCALE:	TO STA.
SHEET 55	OF 505 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	[[48-27HB]BY.BY-1]BOR,BIR,BRR	KNOX	40	8
CONTRACT NO. 68F73				
ILLINOIS FED. AID PROJECT				

WESTBOUND-STAGE 2 DETAILS



NOTES:

DETAIL USED IN CONJUNCTION WITH HIGHWAY STANDARDS 701400, 701402, AND 701411. DETAILS SHOWN HEREIN SHALL BE INCIDENTAL TO TRAFFIC CONTROL PAY ITEMS. PAVEMENT MARKINGS (AND REMOVAL), TEMPORARY CONCRETE BARRIER, TEMPORARY ATTENUATORS, AND ETC. SHALL BE PAID AS SHOWN IN THE SUMMARY OF QUANTITIES. RIGHT EDGE LINE-4" WHITE. LEFT EDGE LINE-4" YELLOW. 6" BLACK-OUT TAPE USED TO COVER CONFLICTING EXISTING PAVEMENT MARKINGS. TEMP. CONC. BARRIER SHALL BE PLACED 2' BEYOND THE PAVEMENT REMOVAL LINE.

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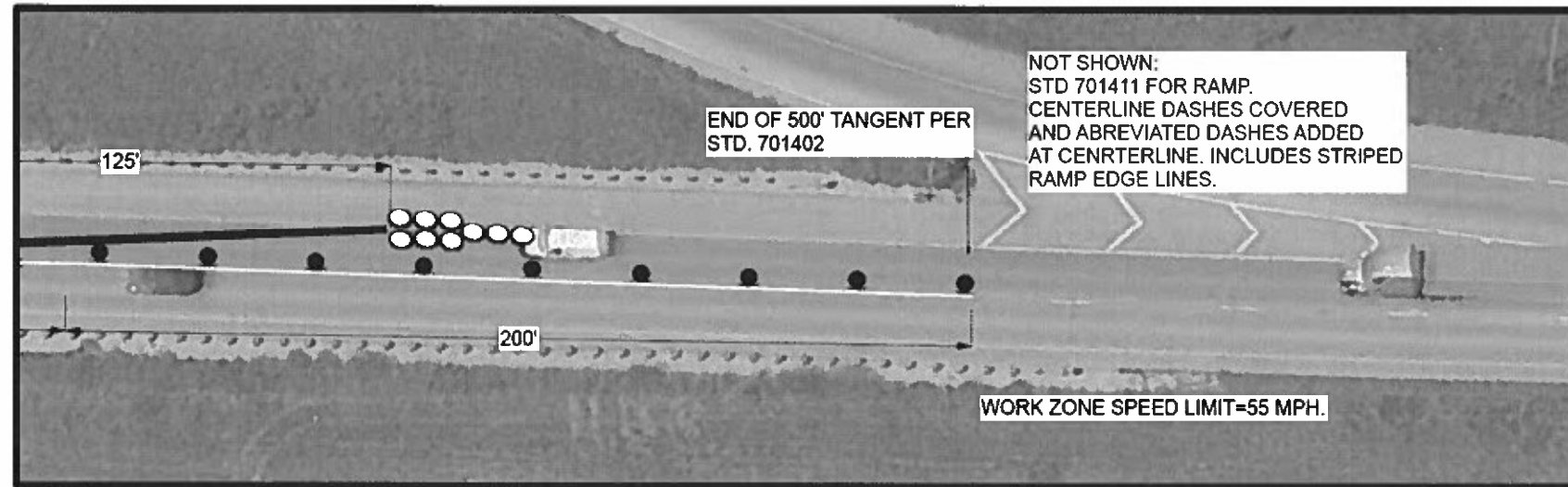
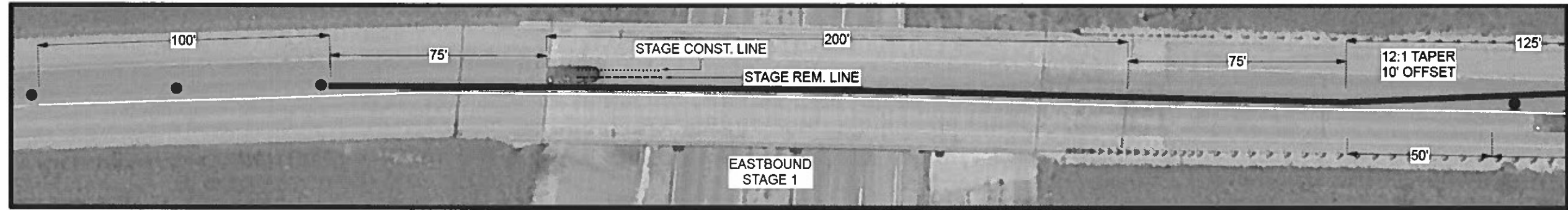
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCALE:		SHEET		OF	SHEETS	STA.	TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(148-27H)BY-BY-1 BDR.B/R,BRR	KNOX	40	9
CONTRACT NO. 68F73				
ILLINOIS FED. AID PROJECT				

EASTBOUND-STAGE 1 DETAILS



NOTES:

DETAIL USED IN CONJUNCTION WITH HIGHWAY STANDARDS 701400, 701402, AND 701411. DETAILS SHOWN HEREIN SHALL BE INCIDENTAL TO TRAFFIC CONTROL PAY ITEMS. PAVEMENT MARKINGS (AND REMOVAL), RELOCATE TEMPORARY CONCRETE BARRIER, RELOCATE TEMPORARY ATTENUATORS, AND ETC. SHALL BE PAID AS SHOWN IN THE SUMMARY OF QUANTITIES. RIGHT EDGE LINE-4" WHITE. LEFT EDGE LINE-4" YELLOW. 6" BLACK-OUT TAPE USED TO COVER CONFLICTING EXISTING PAVEMENT MARKINGS. TEMP. CONC. BARRIER SHALL BE PLACED 2' BEYOND THE PAVEMENT REMOVAL LINE.

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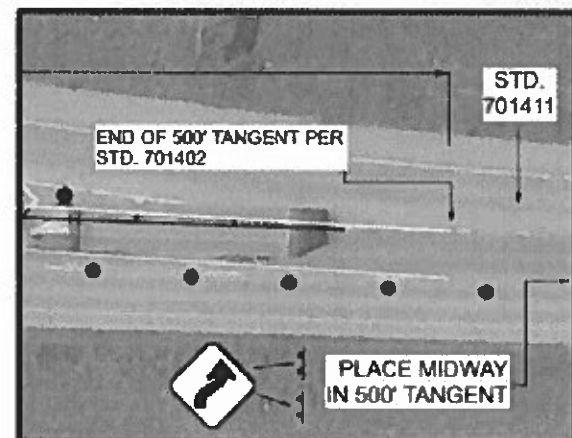
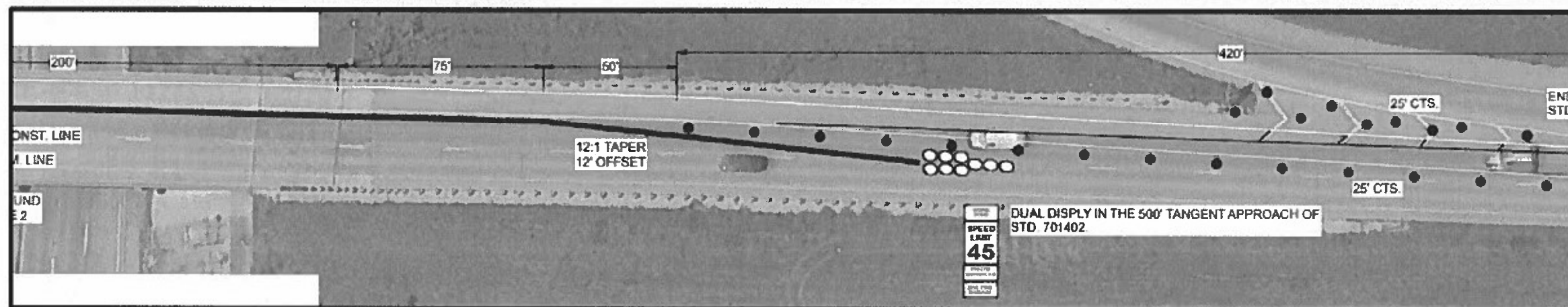
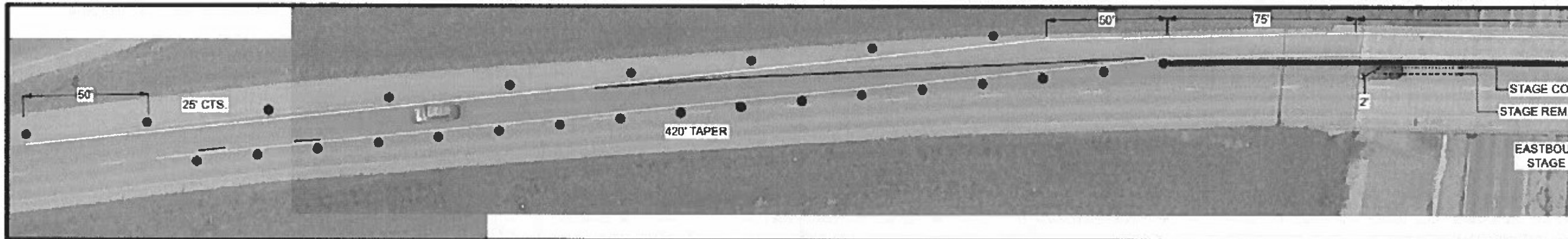
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

STAGING PLANS

SCALE: SHEET OF SHEETS STA. TO STA.

F.A. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	[[48-27HB BY-1 BDR,BJR,BRR	KNOX	40	10
CONTRACT NO. 68F73				
ILLINOIS FED. AID PROJECT				

EASTBOUND-STAGE 2 DETAILS



NOTES:

DETAIL USED IN CONJUNCTION WITH HIGHWAY STANDARDS 701400, 701402, AND 701411. DETAILS SHOWN HEREIN SHALL BE INCIDENTAL TO TRAFFIC CONTROL PAY ITEMS. PAVEMENT MARKINGS (AND REMOVAL), TEMPORARY CONCRETE BARRIER, TEMPORARY ATTENUATORS, AND ETC. SHALL BE PAID AS SHOWN IN THE SUMMARY OF QUANTITIES. RIGHT EDGE LINE-4" WHITE LEFT EDGE LINE-4" YELLOW 6" BLACK-OUT TAPE USED TO COVER CONFLICTING EXISTING PAVEMENT MARKINGS. TEMP. CONC. BARRIER SHALL BE PLACED 2' BEYOND THE PAVEMENT REMOVAL LINE.

DUAL MESSAGE BOARDS THIS STAGE ONLY. COST SHALL BE INCLUDED IN STANDARD 401402.

CAUTION	NARROW
CAUTION	BRIDGE
CAUTION	2 MILES

MESSAGE BOARD

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STAGING PLANS

SCALE: SHEET 55 OF 505 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	[(48-27HB)BY-BY-I]BDR,B/R,BRR	KNOX	40	11
CONTRACT NO. 68F73				
ILLINOIS FED. AID PROJECT				

GENERAL NOTES

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

Reinforcement bars designated (E) shall be epoxy coated.
 Prior to pouring the new concrete deck, all heavy or loose rust, loose mill scale, and other loose or potentially detrimental foreign material shall be removed from the surfaces in contact with concrete. Tightly adhered paint may remain unless otherwise noted. Removal shall be accomplished by methods that will not damage the steel and the cost will be included in the pay item covering removal of the existing concrete.

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.

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. Cost included with Concrete Removal.

Protective Coat shall be applied to the top and inside faces of reconstructed transverse joint areas, top of parapets, and top of Microsilica Concrete Overlay.
 Concrete Sealer shall be applied to the abutment and pier substructure locations shown on the plans.

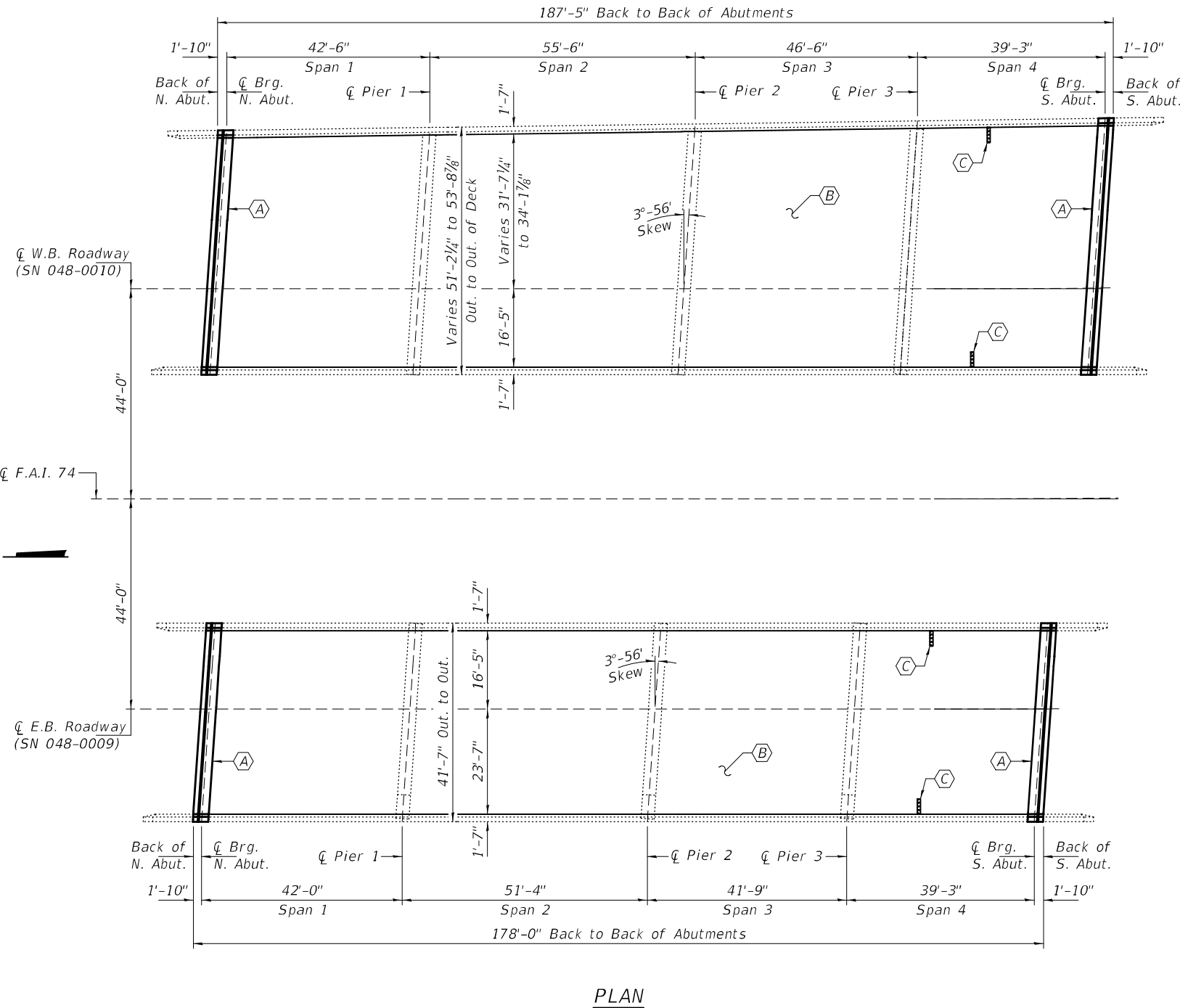
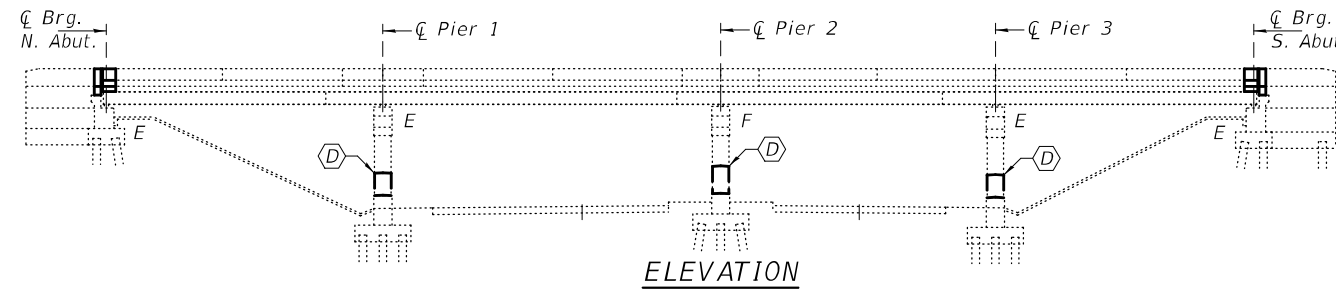
SCOPE OF WORK

- (A) - Remove & Replace Abutment Expansion Joints.
- (B) - Scarify bridge deck, ¾" and install new Microsilica Concrete Overlay, 2¼".
- (C) - Adjust height of existing drainage scuppers.
- (D) - Install Crashwall Extensions at all 6 Piers.
- (E) - Substructure Repairs (See sheets 13 thru 18 of 20)

TOTAL BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Concrete Removal	Cu. Yd.	25.0
Concrete Structures	Cu. Yd.	48.2
Concrete Superstructure	Cu. Yd.	27.7
Bridge Deck Scarification, ¾"	Sq. Yd.	1750.3
Bridge Deck Microsilica Concrete Overlay, 2¼"	Sq. Yd.	1750.3
Bridge Deck Grooving	Sq. Yd.	1670.5
Structural Repair of Concrete (Depth ≤ 5")	Sq. Ft.	325
Reinforcement Bars, Epoxy Coated	Pound	7970
Bar Splicers	Each	56
Preformed Joint Strip Seal	Foot	185
Drainage Scuppers to be Adjusted	Each	4
Protective Coat	Sq. Yd.	1797
Concrete Sealer	Sq. Ft.	1592.4

* Includes an additional 65 Sq. Ft. for contingency.



Expires: November 30, 2022

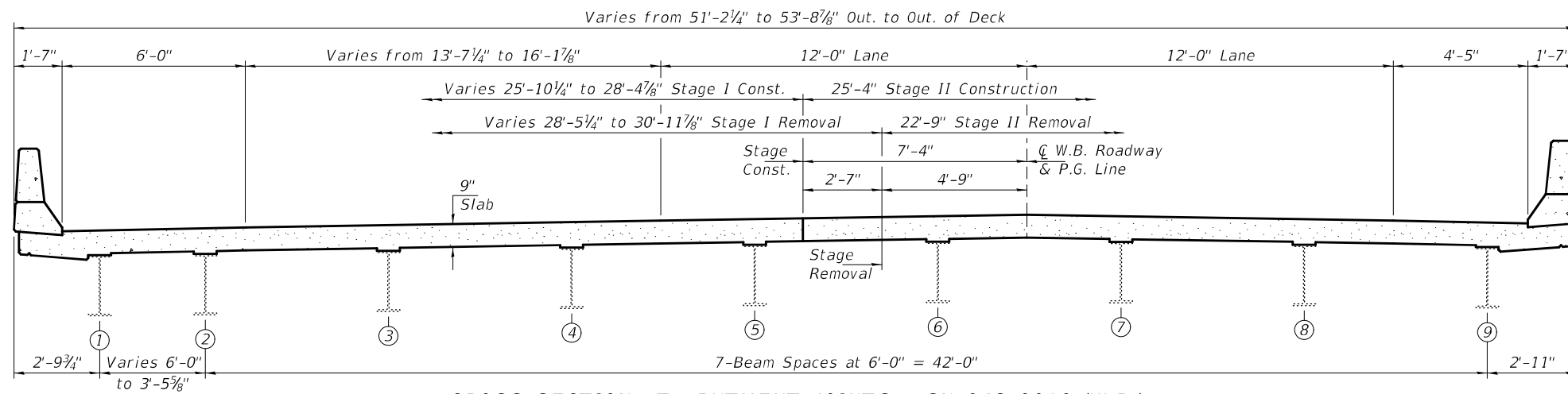
DESIGNED - Chi-Cheung Chau	EXAMINED - <i>Ting A. Deck</i>	DATE - JANUARY 24, 2022
CHECKED - Stephen M. Ryan	ENGINEER OF STRUCTURAL SERVICES	
DRAWN - STEFFEN	PASSED - <i>David Carl Puzey</i>	REVISED -
CHECKED - CCC SMR	ENGINEER OF BRIDGES AND STRUCTURES	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

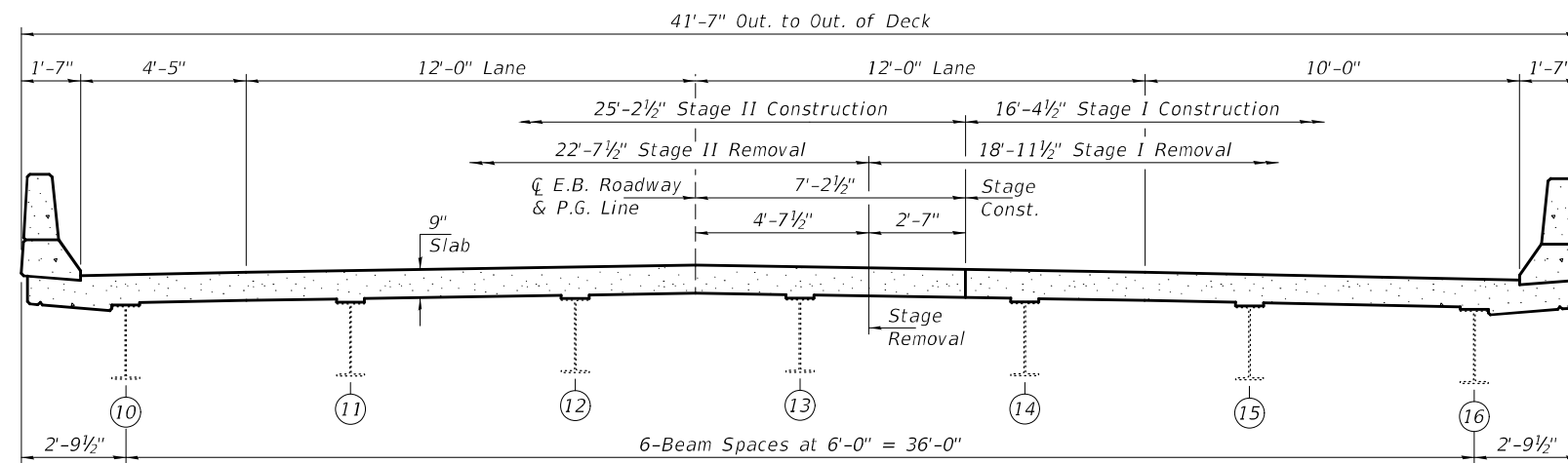
**GENERAL PLAN AND ELEVATION
 F.A.I. ROUTE 74 OVER MAIN STREET (F.A.U. 6800)
 SN 048-0009 (E.B.) & -0010 (W.B.)**

SHEET NO. 1 OF 20 SHEETS

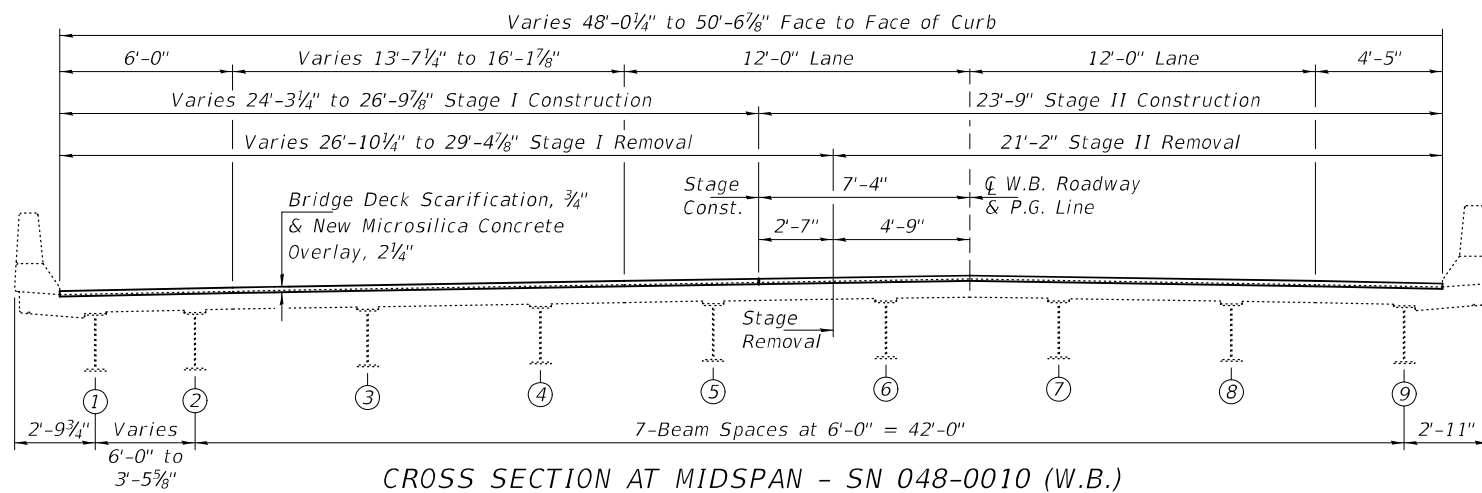
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(48-27HB)BY,BY-1)BDR,BJR,BRR	KNOX	40	12
			CONTRACT NO. 68F73	
		ILLINOIS	FED. AID PROJECT	



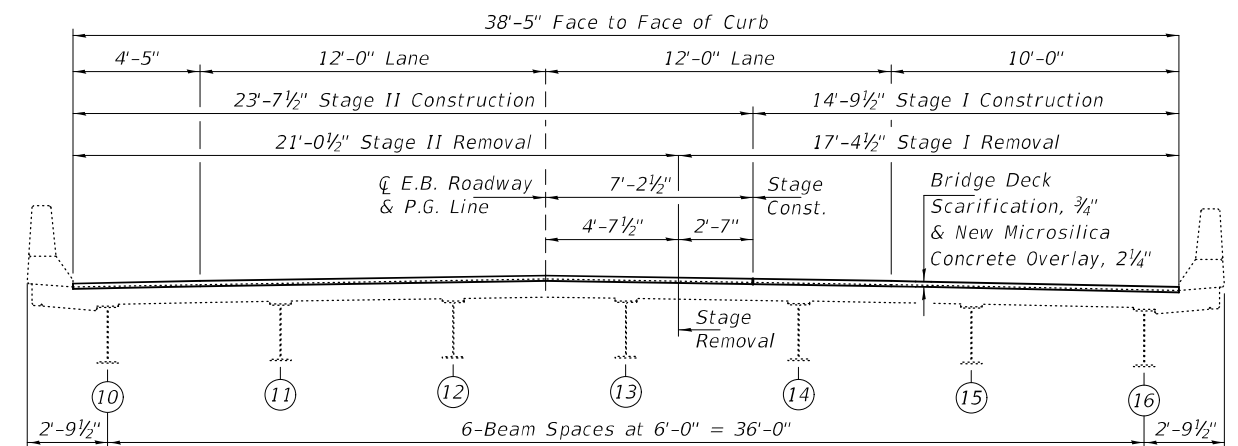
CROSS SECTION AT ABUTMENT JOINTS - SN 048-0010 (W.B.)
(Looking South)



CROSS SECTION AT ABUTMENT JOINTS - SN 048-0009 (E.B.)
(Looking South)



CROSS SECTION AT MIDSPAN - SN 048-0010 (W.B.)
(Looking South)



CROSS SECTION AT MIDSPAN - SN 048-0009 (E.B.)
(Looking South)

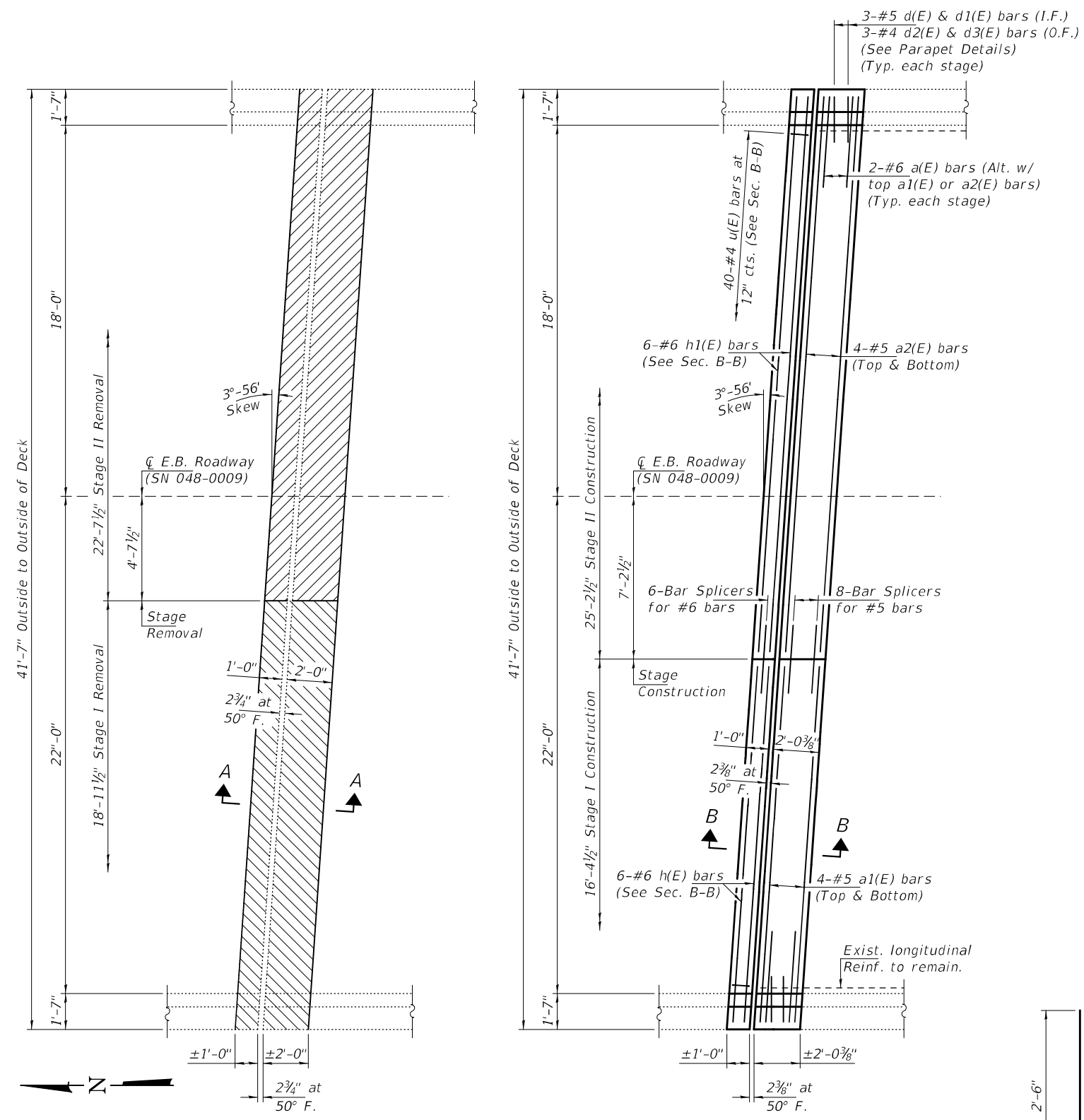
DESIGNED - CCC	EXAMINED - <i>Timothy A. Daulton</i>	DATE - JANUARY 24, 2022
CHECKED - SMR	ENGINEER OF STRUCTURAL SERVICES	
DRAWN - STEFFEN	PASSED - <i>Carl Rieger</i>	REVISED -
CHECKED - CCC SMR	ENGINEER OF BRIDGES AND STRUCTURES	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**STAGING DETAILS
SN 048-0009 (E.B.) & -0010 (W.B.)**

SHEET NO. 2 OF 20 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(48-27HB)BY,BY-1]BDR,BJR,BRR	KNOX	40	13
ILLINOIS FED. AID PROJECT			CONTRACT NO. 68F73	



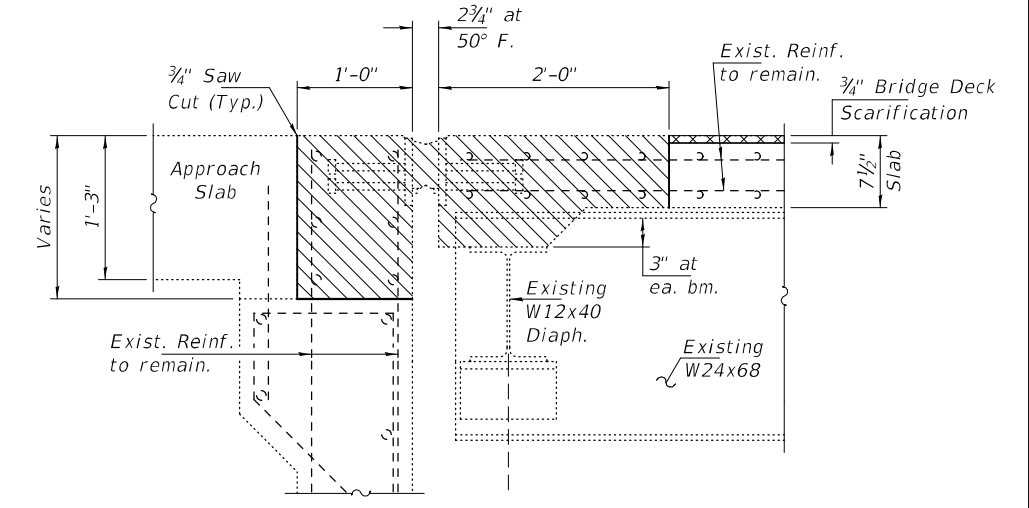
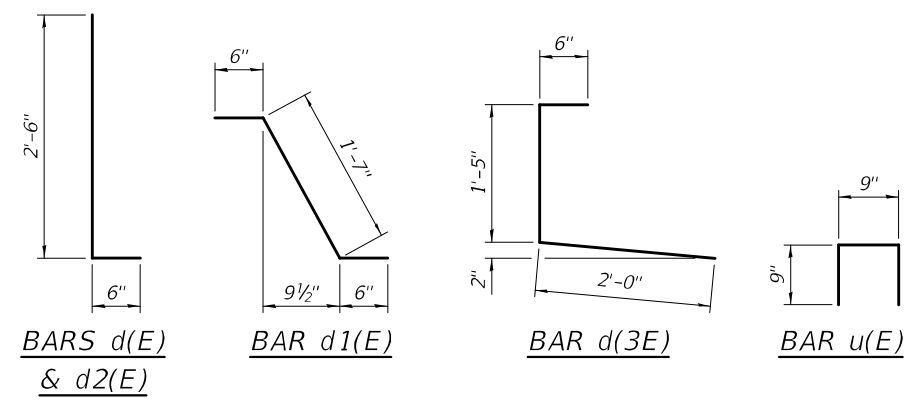
CONCRETE REMOVAL DETAILS

North Abutment shown, South Abutment similar by 180° rotation.

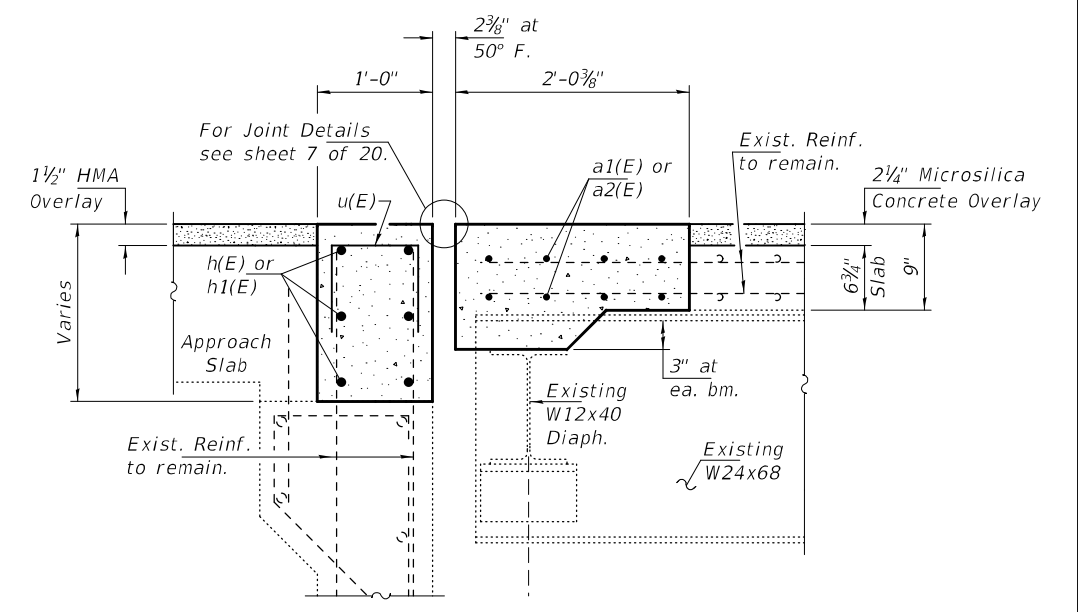
CONCRETE REPLACEMENT DETAILS

North Abutment shown, South Abutment similar by 180° rotation.

Notes:
 Hatched areas indicate Concrete Removal.
 Cross-Hatched areas indicate Bridge Deck Scarification, 3/4".
 For Parapet Details see sheet 6 of 20.



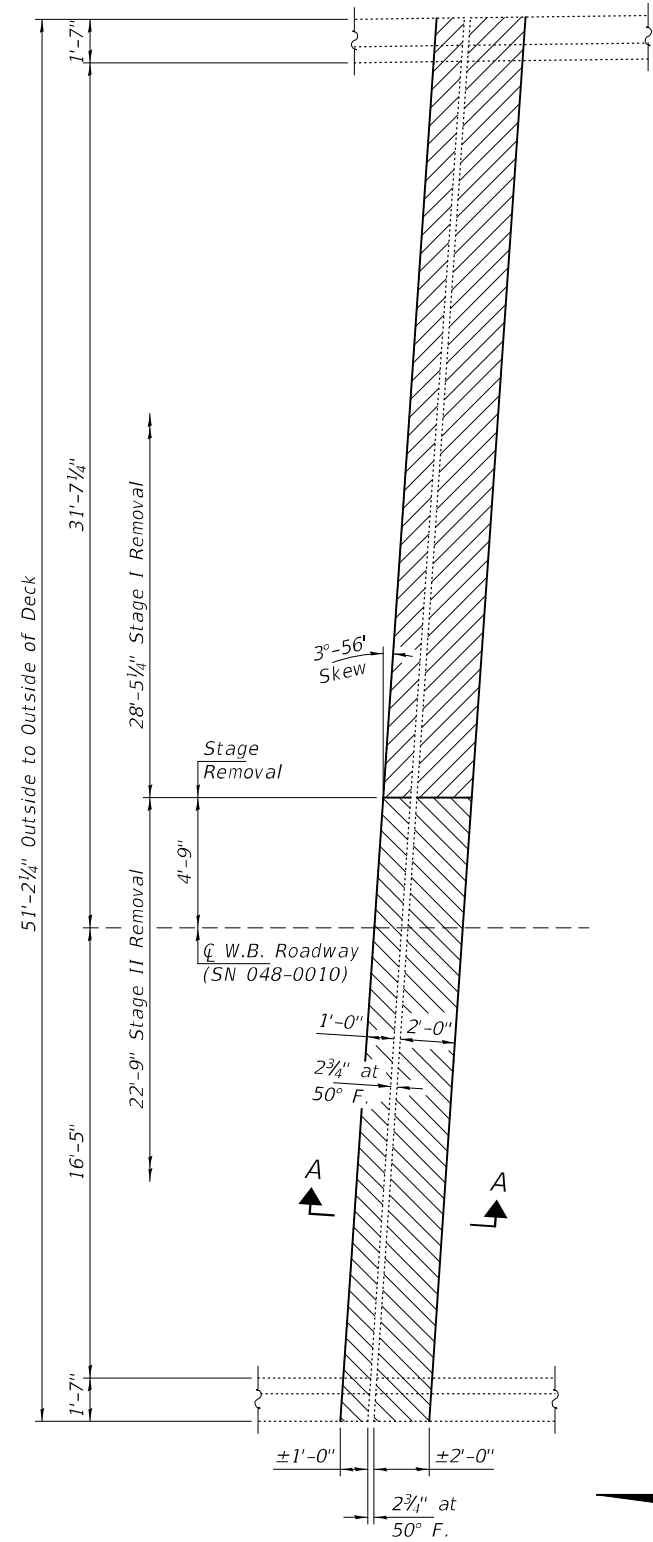
SECTION A-A
Dim. at Rt. L's



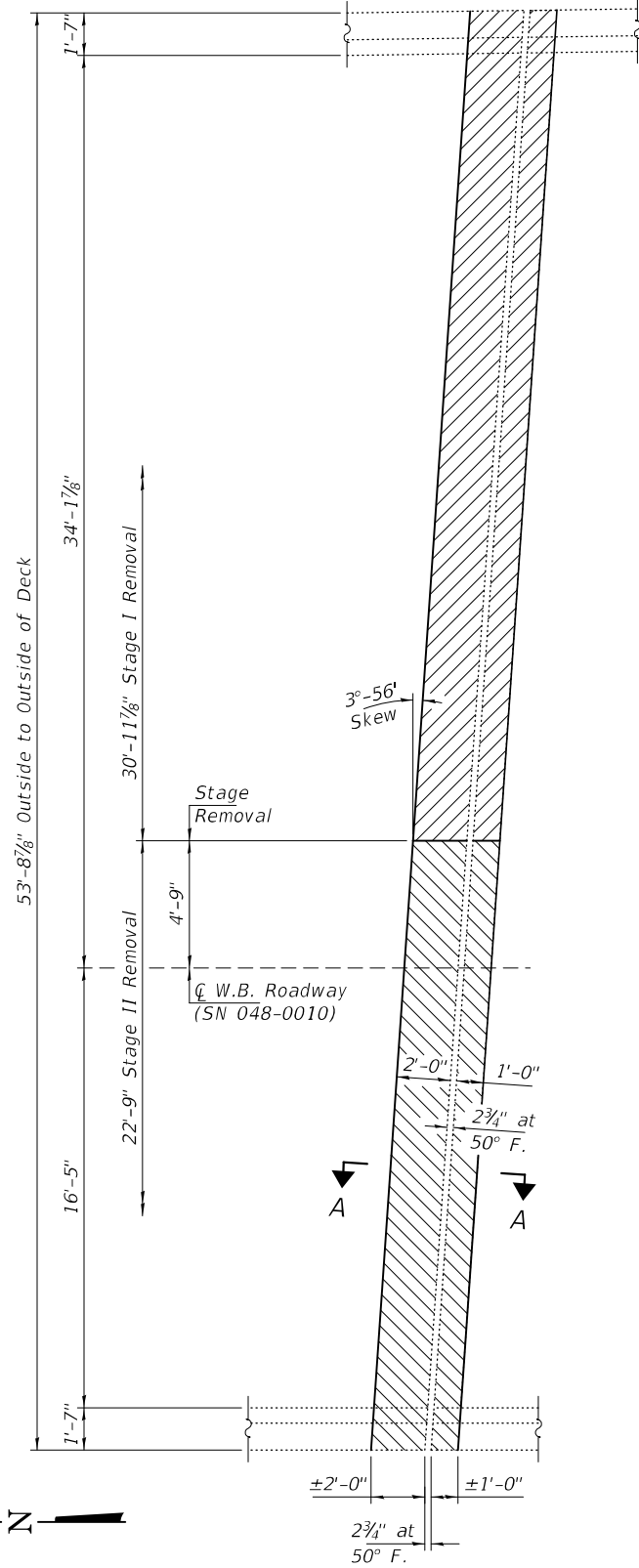
SECTION B-B
Dim. at Rt. L's

BILL OF MATERIAL

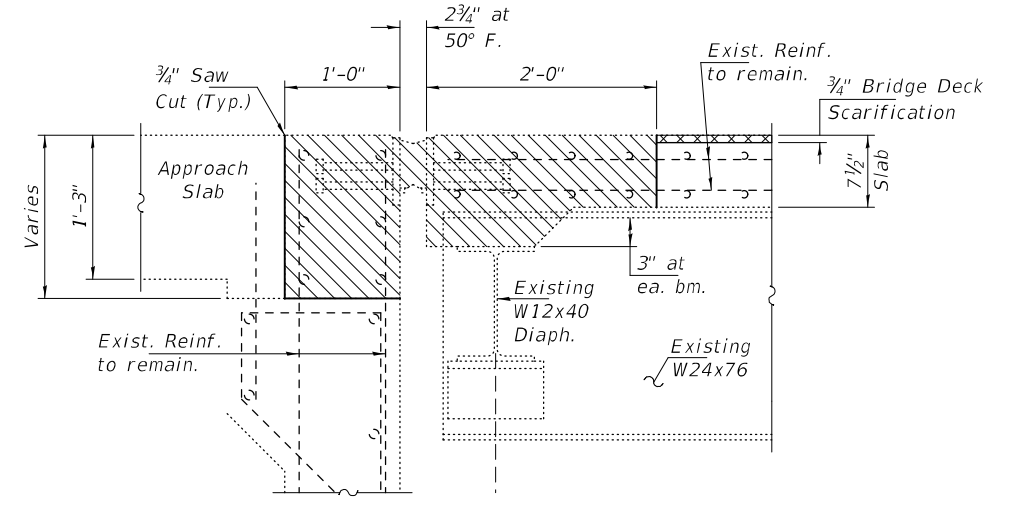
Bar	No.	Size	Length	Shape
a(E)	8	#6	4'-0"	—
a1(E)	16	#5	15'-11"	—
a2(E)	16	#5	24'-9"	—
d(E)	12	#5	3'-0"	┌
d1(E)	12	#5	2'-7"	┌
d2(E)	12	#4	3'-0"	┌
d3(E)	12	#4	3'-11"	┌
h(E)	12	#6	16'-1"	—
h1(E)	12	#6	24'-11"	—
u(E)	80	#4	2'-3"	U
Concrete Removal			Cu. Yd.	11.0
Concrete Superstructure			Cu. Yd.	11.0
Bar Splicers			Each	28
Reinforcement Bars, Epoxy Coated			Pound	1650



**CONCRETE REMOVAL DETAILS
AT NORTH ABUTMENT**



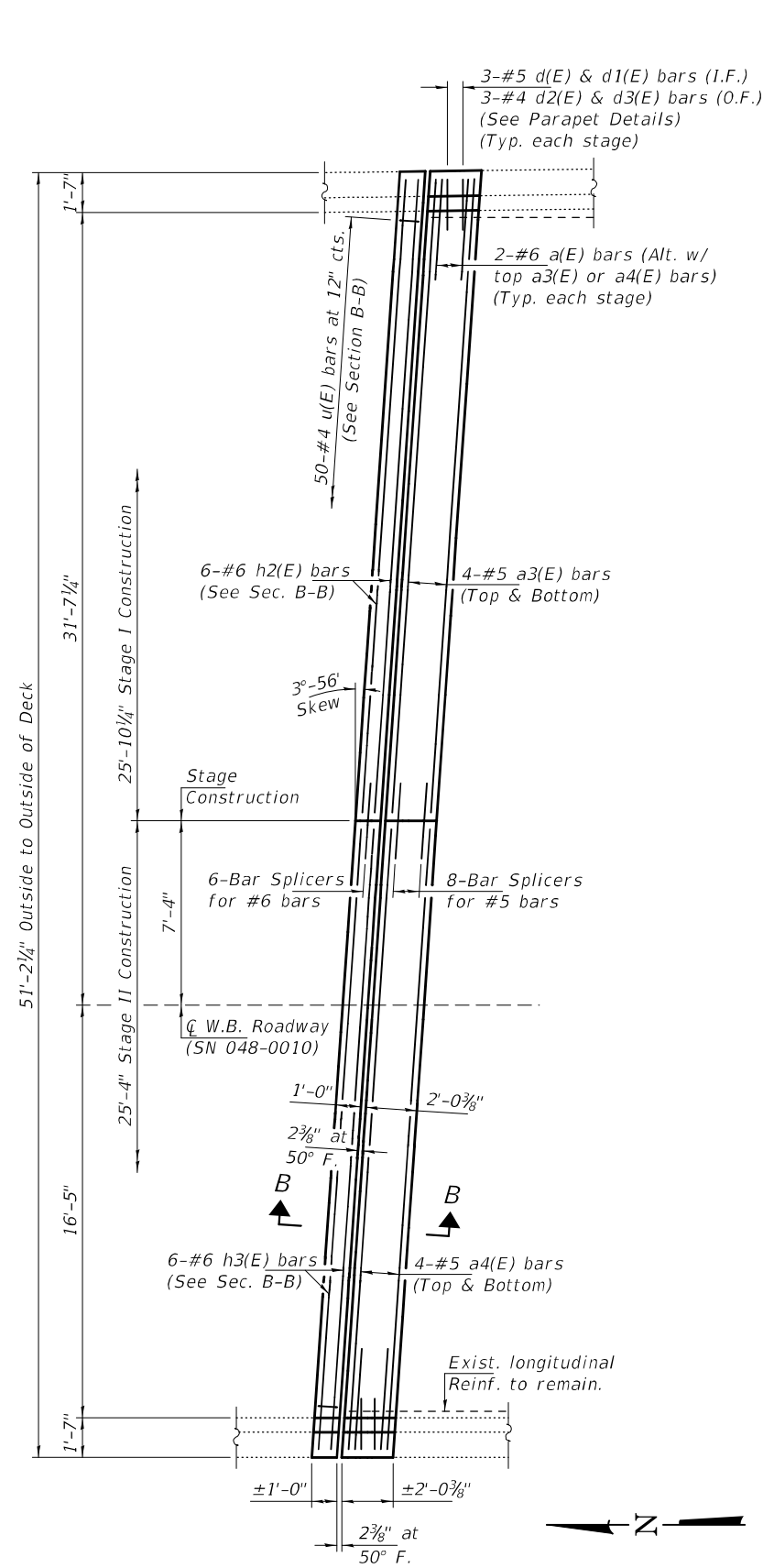
**CONCRETE REMOVAL DETAILS
AT SOUTH ABUTMENT**



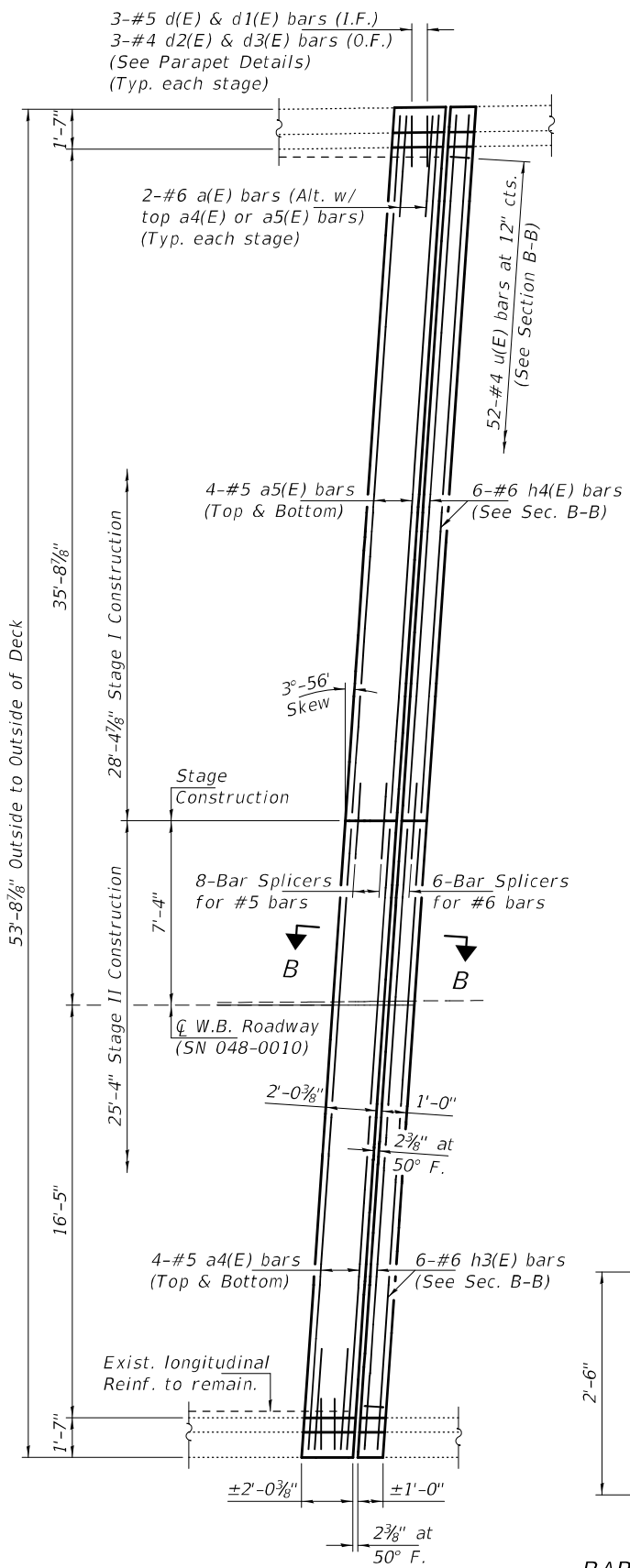
SECTION A-A
Dim. at Rt. L's

Notes:
Hatched areas indicate Concrete Removal.
Cross-Hatched areas indicate Bridge Deck Scarification, 3/4".
For Bill of Material see sheet 5 of 20.

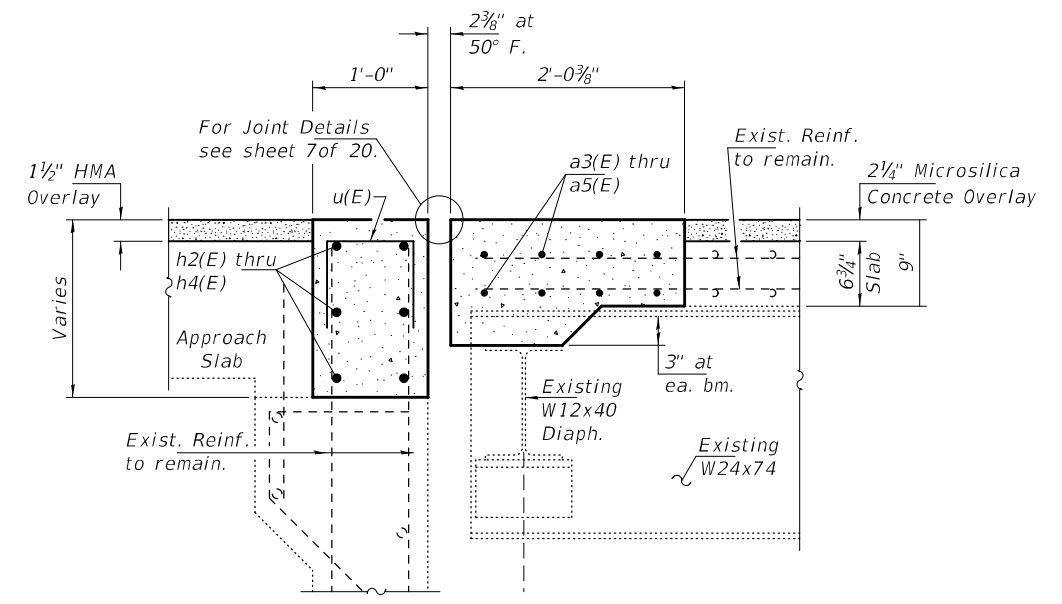
DESIGNED - CCC	EXAMINED - <i>Timothy A. Daulton</i> ENGINEER OF STRUCTURAL SERVICES	DATE - JANUARY 24, 2022	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	JOINT REMOVAL DETAILS - ABUTMENTS SN 048-0010 (W.B.)	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CHECKED - SMR	PASSED - <i>Carl Rieger</i> ENGINEER OF BRIDGES AND STRUCTURES	REVISED -			74	(48-27HB)BY, BY-1]BDR, BJR, BRR	KNOX	40	15
DRAWN - STEFFEN		REVISED -	SHEET NO. 4 OF 20 SHEETS		CONTRACT NO. 68F73				
CHECKED - CCC SMR					ILLINOIS FED. AID PROJECT				



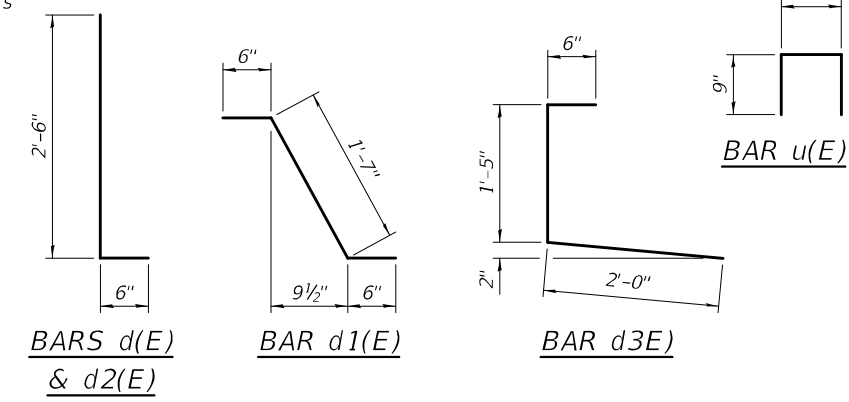
**CONCRETE REPLACEMENT DETAILS
AT NORTH ABUTMENT**



**CONCRETE REPLACEMENT DETAILS
AT SOUTH ABUTMENT**



SECTION B-B
Dim. at Rt. L's



BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a(E)	8	#6	4'-0"	—
a3(E)	8	#5	25'-5"	—
a4(E)	16	#5	24'-11"	—
a5(E)	8	#5	28'-0"	—
d(E)	12	#5	3'-0"	┌
d1(E)	12	#5	2'-7"	┌
d2(E)	12	#4	3'-0"	┌
d3(E)	12	#4	3'-11"	┌
h2(E)	6	#6	25'-7"	—
h3(E)	12	#6	25'-1"	—
h4(E)	6	#6	28'-2"	—
u(E)	102	#4	2'-3"	□
Concrete Removal			Cu. Yd.	15.0
Concrete Superstructure			Cu. Yd.	15.0
Bar Splicers			Each	28
Reinforcement Bars, Epoxy Coated			Pound	2050

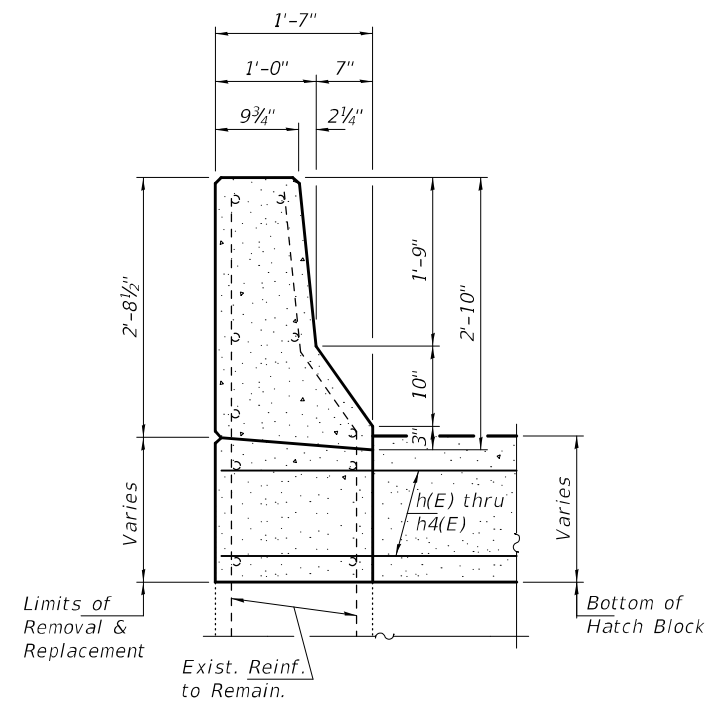
DESIGNED - CCC	EXAMINED - <i>Timothy A. Daulton</i>	DATE - JANUARY 24, 2022
CHECKED - SMR	ENGINEER OF STRUCTURAL SERVICES	
DRAWN - STEFFEN	PASSED - <i>Carl Ringer</i>	REVISER -
CHECKED - CCC SMR	ENGINEER OF BRIDGES AND STRUCTURES	REVISER -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

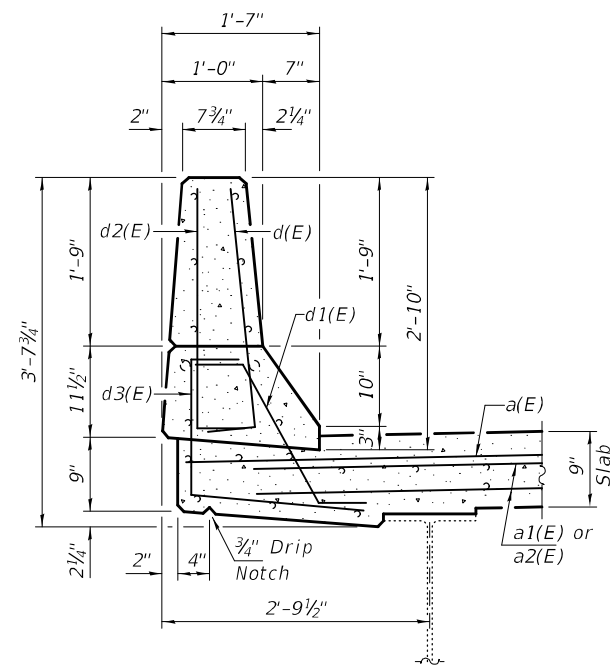
**JOINT REPLACEMENT DETAILS - ABUTMENTS
SN 048-0010 (W.B.)**

SHEET NO. 5 OF 20 SHEETS

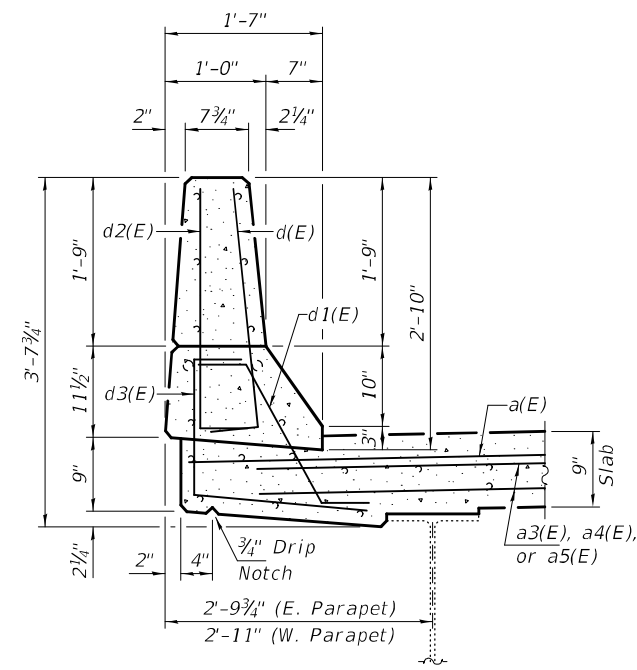
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(48-27HB)BY,BY-1)BDR,BJR,BRR	KNOX	40	16
CONTRACT NO. 68F73			ILLINOIS / FED. AID PROJECT	



APPROACH PARAPET



BRIDGE PARAPET DETAILS
SN 048-0009 (EAST BOUND)



BRIDGE PARAPET DETAILS
SN 048-0010 (WEST BOUND)

DESIGNED - CCC
 CHECKED - SMR
 DRAWN - STEFFEN
 CHECKED - CCC SMR

EXAMINED
 PASSED
Timothy A. Daulton
 ENGINEER OF STRUCTURAL SERVICES
Carl R. Roper
 ENGINEER OF BRIDGES AND STRUCTURES

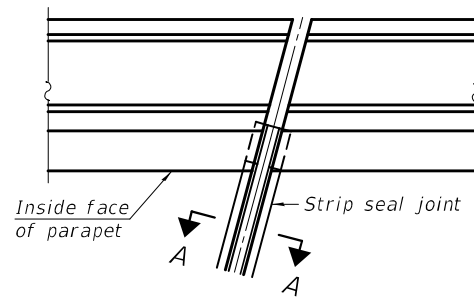
DATE - JANUARY 24, 2022
 REVISED -
 REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

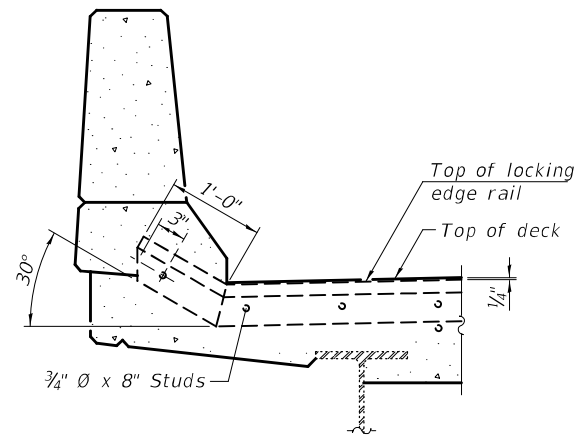
JOINT REPLACEMENT DETAILS
 SN 048-0009 (E.B.) & -0010 (W.B.)

SHEET NO. 6 OF 20 SHEETS

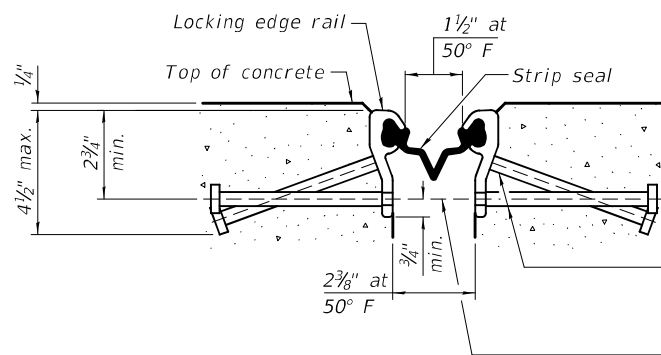
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(48-27HB)BY,BY-1]BDR,BJR,BRR	KNOX	40	17
CONTRACT NO. 68F73				
ILLINOIS		FED. AID PROJECT		



FOR SKEWS $\leq 30^\circ$
PLAN AT PARAPET



ELEVATION AT PARAPET
(Skews $\leq 30^\circ$)

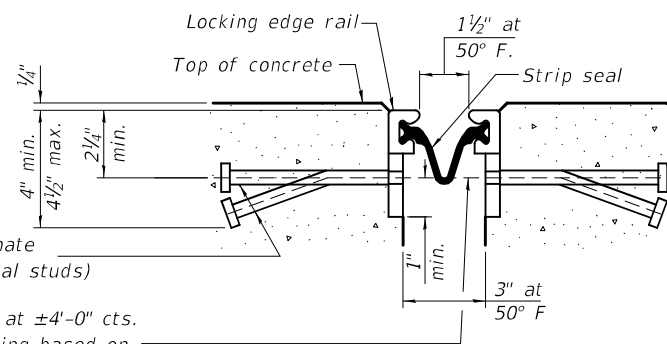


SHOWING ROLLED RAIL JOINT

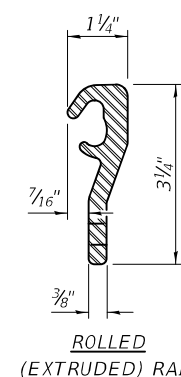
* $5/8"$ \times 6" studs at 6" cts. (alternate angled/bent studs with horizontal studs)
 $3/8"$ \times threaded rods in $7/16"$ holes at $\pm 4'-0"$ cts. for holding the proper joint opening based on the temperature during the deck pour. Place to miss studs. All rods shall be burned, or sawed off flush with the plates after concrete is set.

SECTION A-A

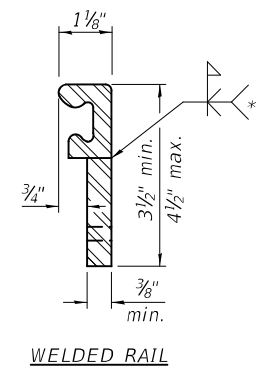
* Granular or solid flux filled headed studs conforming to Article 1006.32 of the Std. Specs., automatically end welded.



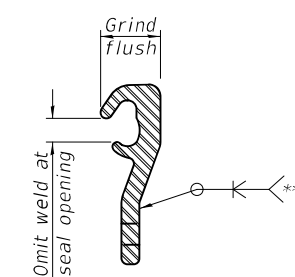
SHOWING WELDED RAIL JOINT



ROLLED (EXTRUDED) RAIL



WELDED RAIL



LOCKING EDGE RAIL SPLICE

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

LOCKING EDGE RAILS

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

Notes:

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

The locking edge rails depicted are configured for typical applications and are conceptual only. The actual configuration of the locking edge rails and matching strip seal may vary from manufacturer to manufacturer provided they fit the application and meet the minimum anchorage shown. Flanged edge rails, however, will not be allowed. Locking edge rails may exceed the $4 1/2"$ 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 $3/16"$ and sealed with a suitable sealant; however, any rail joint within 10' measured perpendicular to the face of the curb or parapet shall be welded as shown in the locking edge rail splice detail.

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.

BILL OF MATERIAL

Item	Unit	Total
Preformed Joint Strip Seal	Foot	185

DESIGNED - CCC
 CHECKED - SMR
 DRAWN - STEFFEN
 CHECKED - CCC SMR

EXAMINED - *Timothy A. Daulton*
 ENGINEER OF STRUCTURAL SERVICES
 PASSED - *Carl Rieger*
 ENGINEER OF BRIDGES AND STRUCTURES

DATE - JANUARY 24, 2022
 REVISED -
 REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

PREFORMED JOINT STRIP SEAL DETAILS
 SN 048-0009 (E.B.) & -0010 (W.B.)

SHEET NO. 7 OF 20 SHEETS

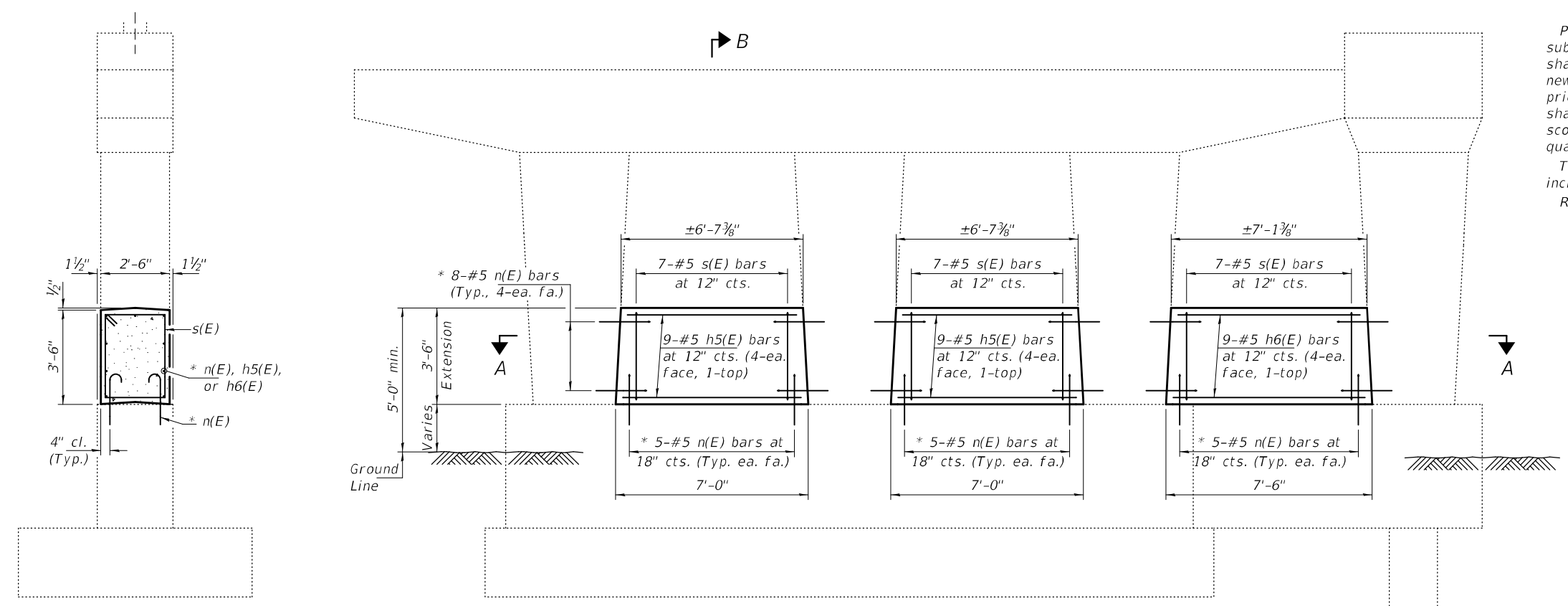
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(48-27HB)BY-BY-1)BDR,BJR,BRR	KNOX	40	18
CONTRACT NO. 68F73				
ILLINOIS FED. AID PROJECT				

NOTES

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

The cost of epoxy grouting reinforcement bars shall be included with Reinforcement Bars, Epoxy Coated.

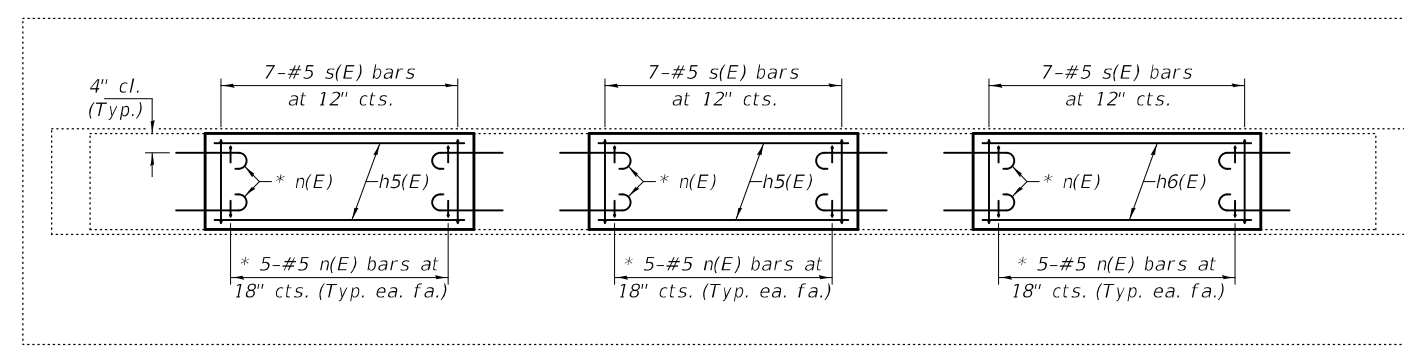
Reinforcement bars designated (E) shall be epoxy coated.



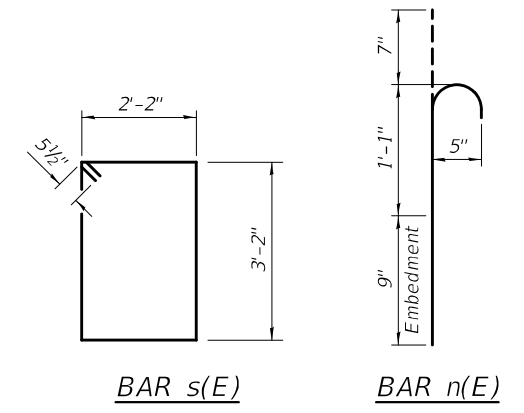
SECTION B-B

ELEVATION - PIERS 1 & 3
(Looking South)

* Epoxy grout n(E) bars in 9" min. holes according to Article 584 of the Standard Specifications.



SECTION A-A



BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h5(E)	36	#5	6'-2"	—
h6(E)	18	#5	6'-8"	—
n(E)	156	#5	2'-5"	U
s(E)	42	#5	11'-7"	□
Concrete Structures			Cu. Yd.	14.0
Reinforcement Bars, Epoxy Coated			Pound	1260
Concrete Sealer			Sq. Ft.	384.0

DESIGNED - CCC	EXAMINED - <i>Timothy A. Daulton</i>	DATE - JANUARY 24, 2022
CHECKED - SMR	ENGINEER OF STRUCTURAL SERVICES	
DRAWN - STEFFEN	PASSED - <i>Carl Rieger</i>	REVISER -
CHECKED - CCC SMR	ENGINEER OF BRIDGES AND STRUCTURES	REVISER -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CRASHWALL EXTENSION DETAILS - PIERS 1 & 3
SN 048-0009 (E.B.)

SHEET NO. 8 OF 20 SHEETS

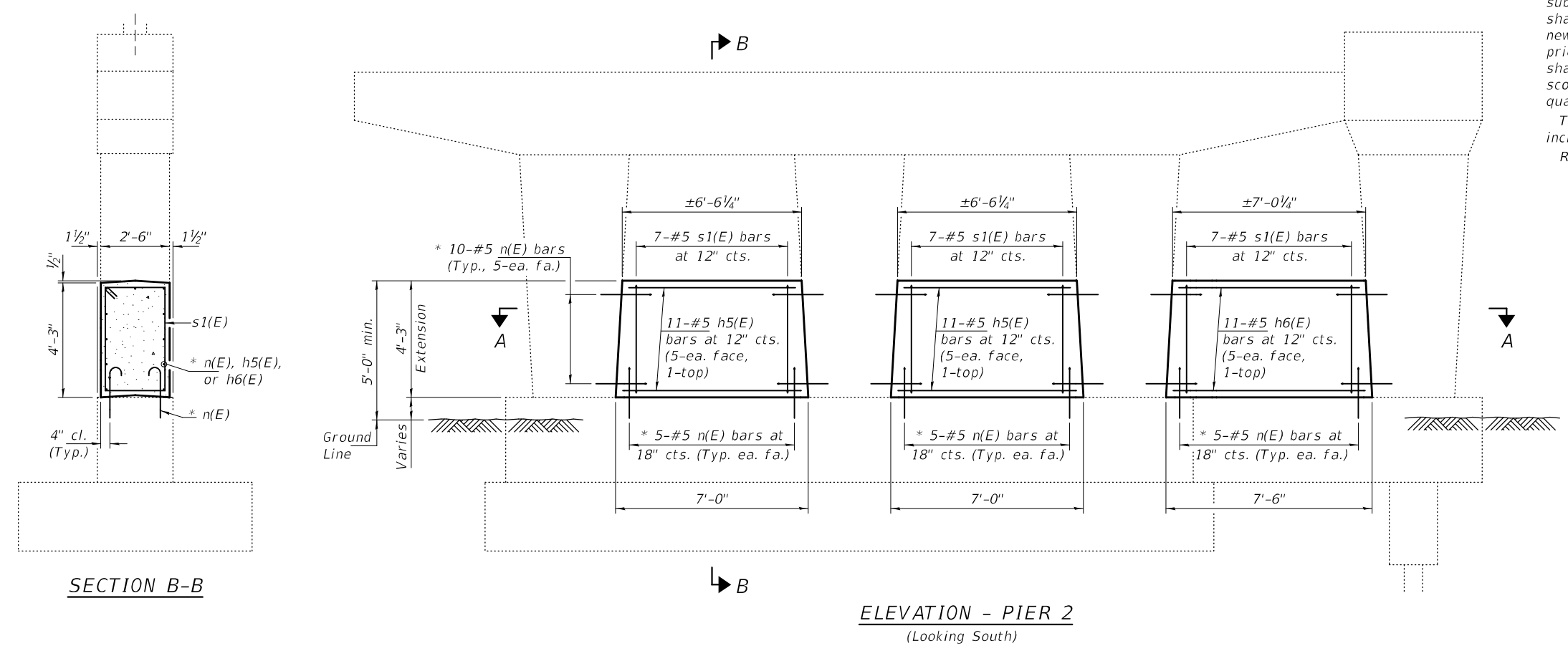
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(48-27HB)BY-BY-1)BDR,BJR,BRR	KNOX	40	19
CONTRACT NO. 68F73				
ILLINOIS FED. AID PROJECT				

NOTES

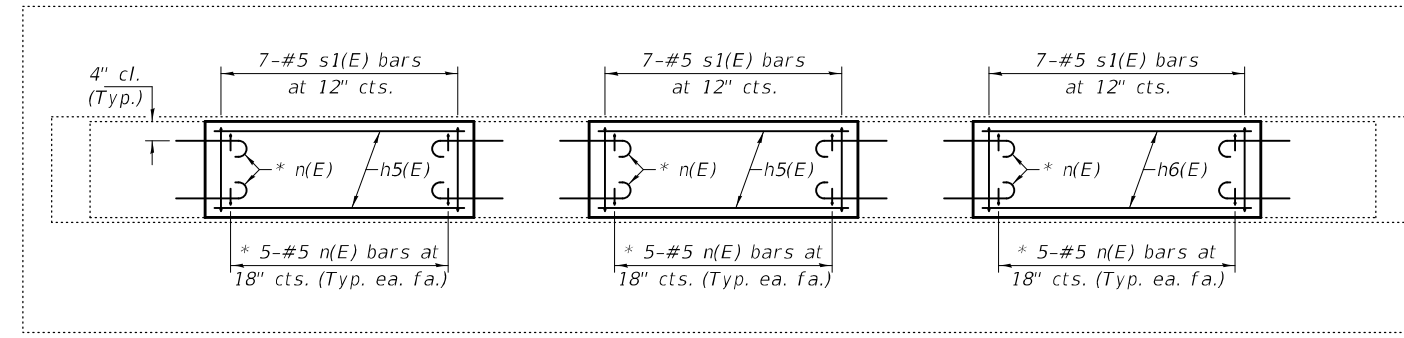
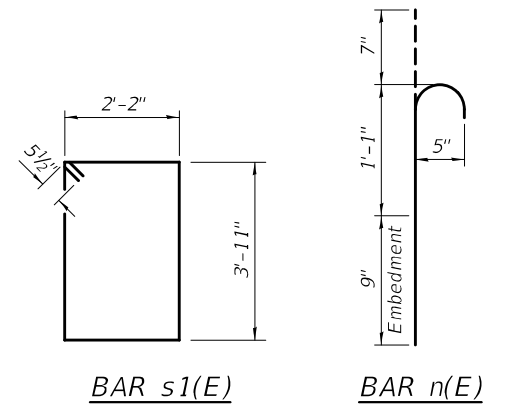
Plan dimensions and details relative to existing plans are subject to nominal construction variations. The Contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall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

The cost of epoxy grouting reinforcement bars shall be included with Reinforcement Bars, Epoxy Coated.

Reinforcement bars designated (E) shall be epoxy coated.



* Epoxy grout n(E) bars in 9" min. holes according to Article 584 of the Standard Specifications.



BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h5(E)	22	#5	6'-2"	—
h6(E)	11	#5	6'-8"	—
n(E)	90	#5	2'-5"	⊔
s1(E)	21	#5	13'-1"	□
Concrete Structures			Cu. Yd.	8.0
Reinforcement Bars, Epoxy Coated			Pound	730
Concrete Sealer			Sq. Ft.	221.0

DESIGNED - CCC	EXAMINED - <i>Timothy A. Daulton</i>	DATE - JANUARY 24, 2022
CHECKED - SMR	ENGINEER OF STRUCTURAL SERVICES	
DRAWN - STEFFEN	PASSED - <i>Carl R. Meyer</i>	REVISED -
CHECKED - CCC SMR	ENGINEER OF BRIDGES AND STRUCTURES	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CRASHWALL EXTENSION DETAILS - PIER 2
SN 048-0009 (E.B.)

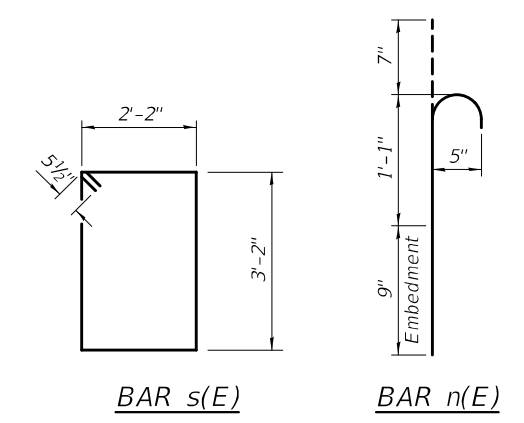
SHEET NO. 9 OF 20 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	[(48-27HB)BY-BY-1]BDR,BJR,BRR	KNOX	40	20
CONTRACT NO. 68F73				
ILLINOIS FED. AID PROJECT				

NOTES

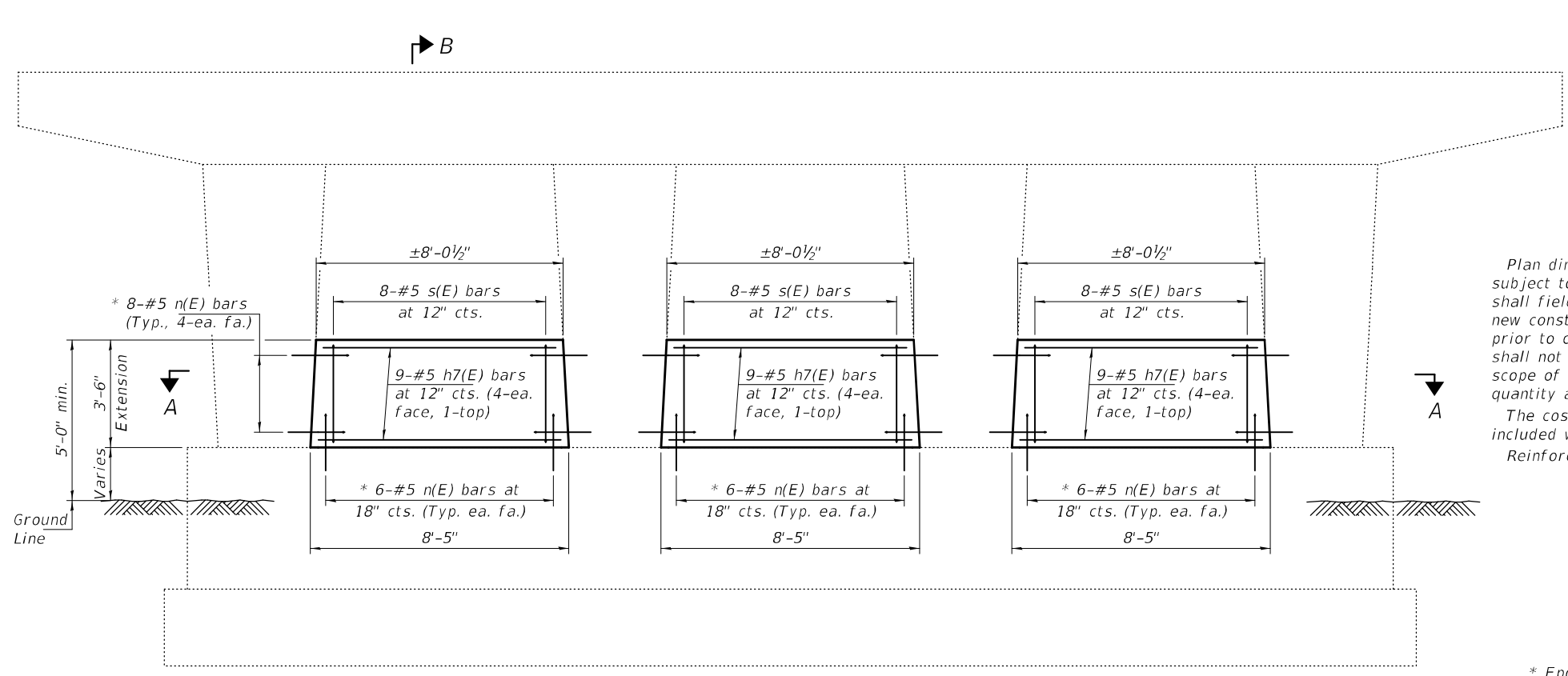
Plan dimensions and details relative to existing plans are subject to nominal construction variations. The Contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in scope of the work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work. The cost of epoxy grouting reinforcement bars shall be included with Reinforcement Bars, Epoxy Coated. Reinforcement bars designated (E) shall be epoxy coated.

* Epoxy grout n(E) bars in 9" min. holes according to Article 584 of the Standard Specifications.

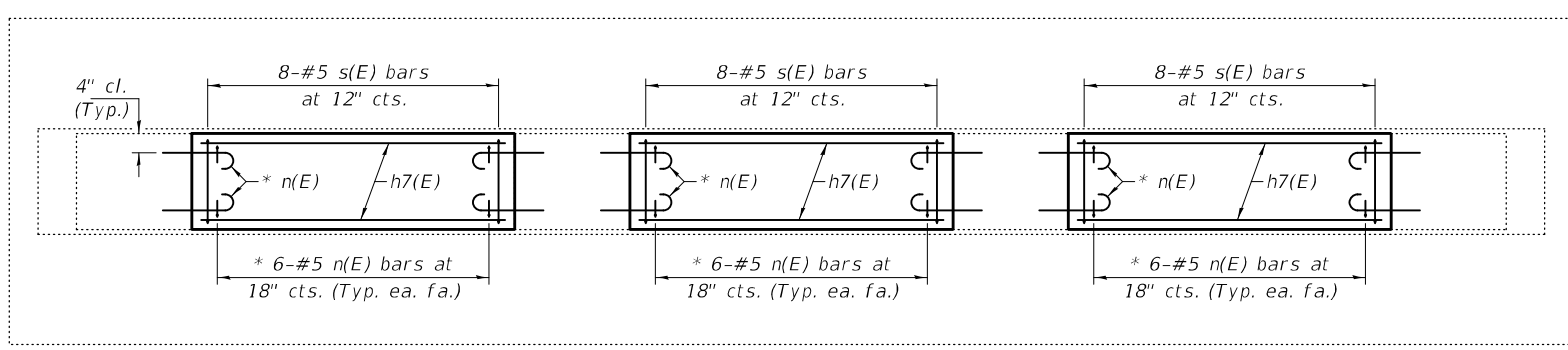


BILL OF MATERIAL

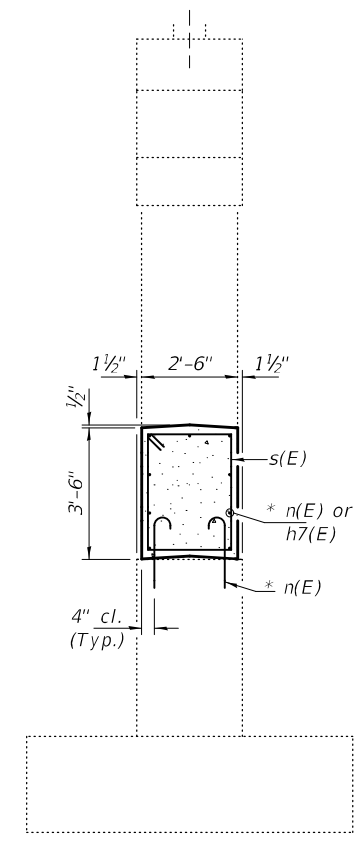
Bar	No.	Size	Length	Shape	
h7(E)	27	#5	7'-8"	—	
n(E)	84	#5	2'-5"	⊔	
s(E)	24	#5	11'-7"	□	
Concrete Structures				Cu. Yd.	8.0
Reinforcement Bars, Epoxy Coated				Pound	720
Concrete Sealer				Sq. Ft.	232.5



ELEVATION - PIER 1
(Looking South)



SECTION A-A



SECTION B-B

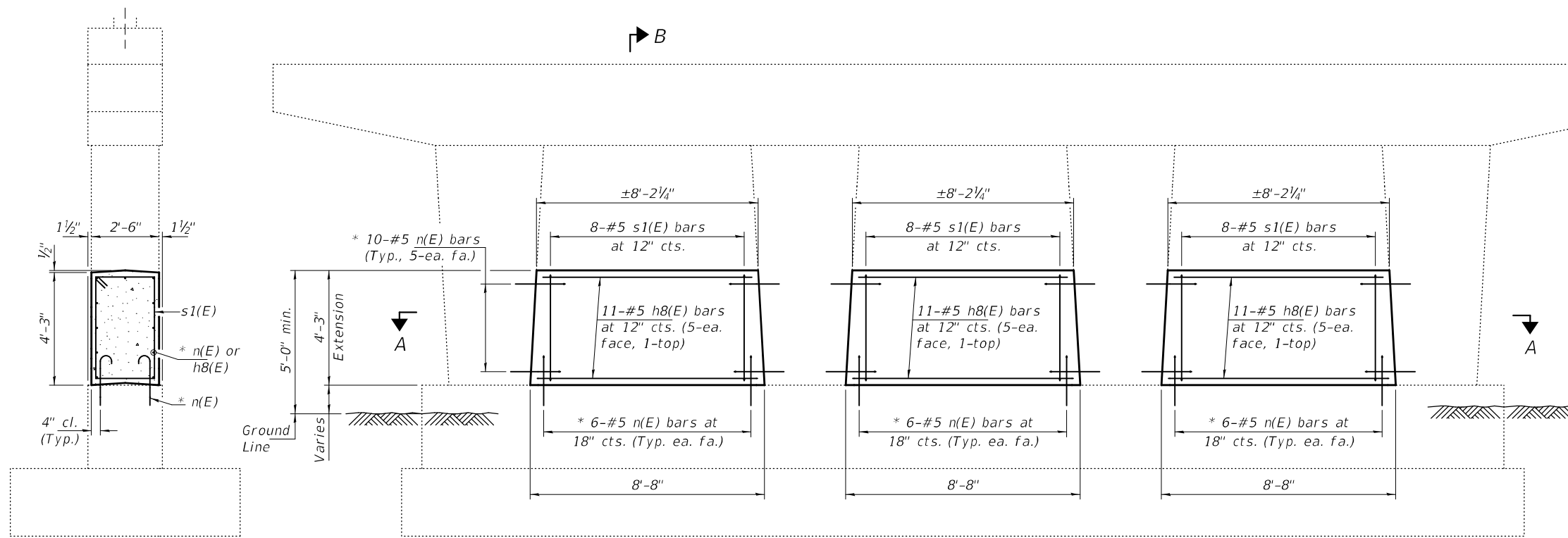
DESIGNED - CCC	EXAMINED - <i>Timothy A. Daulton</i>	DATE - JANUARY 24, 2022
CHECKED - SMR	ENGINEER OF STRUCTURAL SERVICES	
DRAWN - STEFFEN	PASSED - <i>Carl Rieger</i>	REVISER -
CHECKED - CCC SMR	ENGINEER OF BRIDGES AND STRUCTURES	REVISER -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CRASHWALL EXTENSION DETAILS - PIER 1
SN 048-0010 (W.B.)

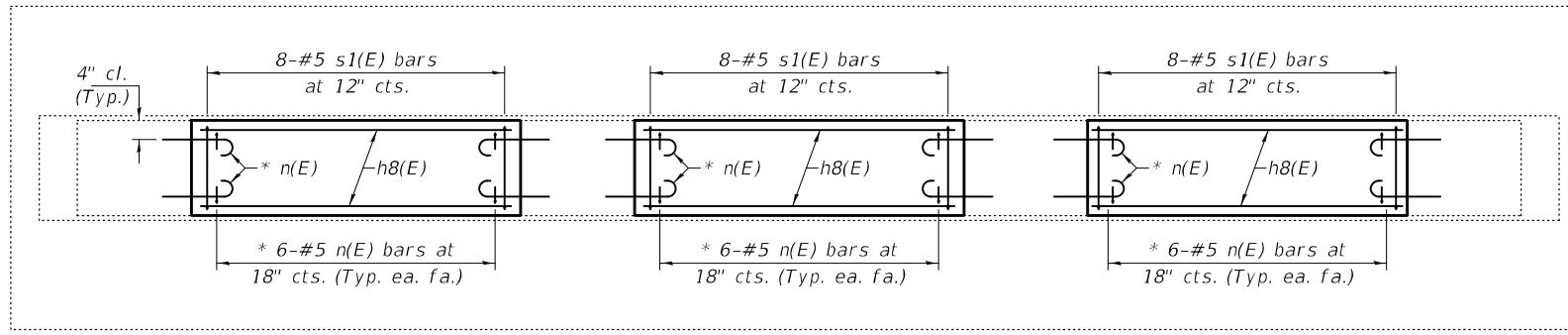
SHEET NO. 10 OF 20 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(48-27B)BY.BY-1)BDR,BJR,BRR	KNOX	40	21
ILLINOIS FED. AID PROJECT			CONTRACT NO. 68F73	



SECTION B-B

ELEVATION - PIER 2
(Looking South)

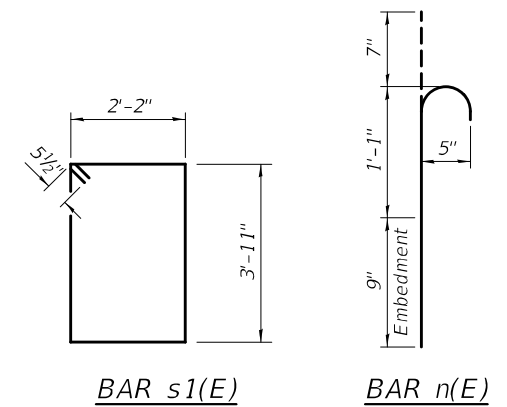


SECTION A-A

NOTES

Plan dimensions and details relative to existing plans are subject to nominal construction variations. The Contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in scope of the work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work. The cost of epoxy grouting reinforcement bars shall be included with Reinforcement Bars, Epoxy Coated. Reinforcement bars designated (E) shall be epoxy coated.

* Epoxy grout n(E) bars in 9" min. holes according to Article 584 of the Standard Specifications.



BILL OF MATERIAL

Bar	No.	Size	Length	Shape	
h8(E)	33	#5	7'-10"	—	
n(E)	96	#5	2'-5"	⊔	
s1(E)	24	#5	13'-1"	□	
Concrete Structures				Cu. Yd.	10.0
Reinforcement Bars, Epoxy Coated				Pound	840
Concrete Sealer				Sq. Ft.	275.7

DESIGNED - CCC
CHECKED - SMR
DRAWN - STEFFEN
CHECKED - CCC SMR

EXAMINED
PASSED
ENGINEER OF BRIDGES AND STRUCTURES

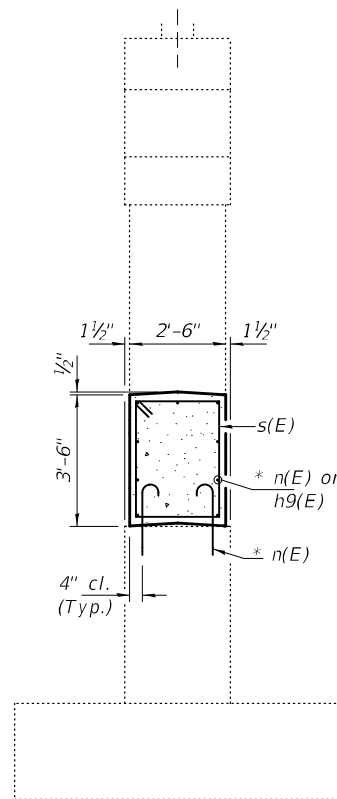
DATE - JANUARY 24, 2022
REVISED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

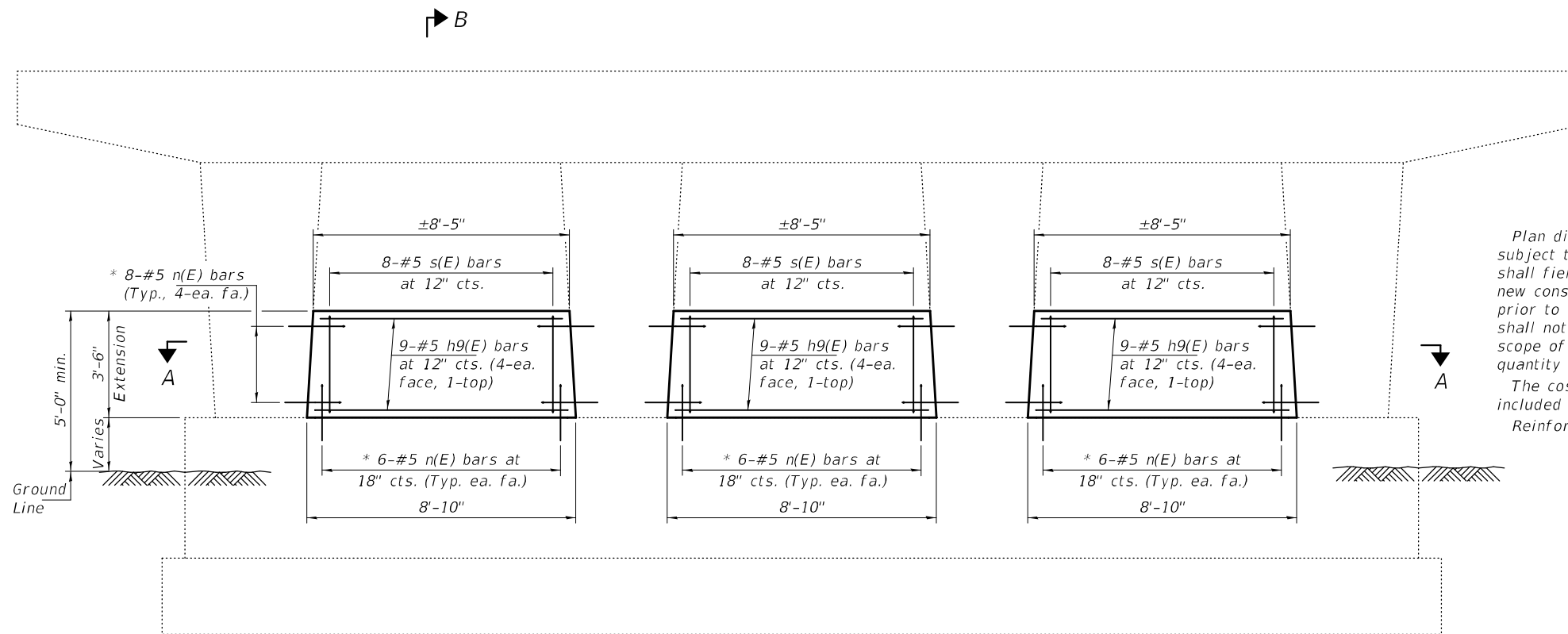
CRASHWALL EXTENSION DETAILS - PIER 2
SN 048-0010 (W.B.)

SHEET NO. 11 OF 20 SHEETS

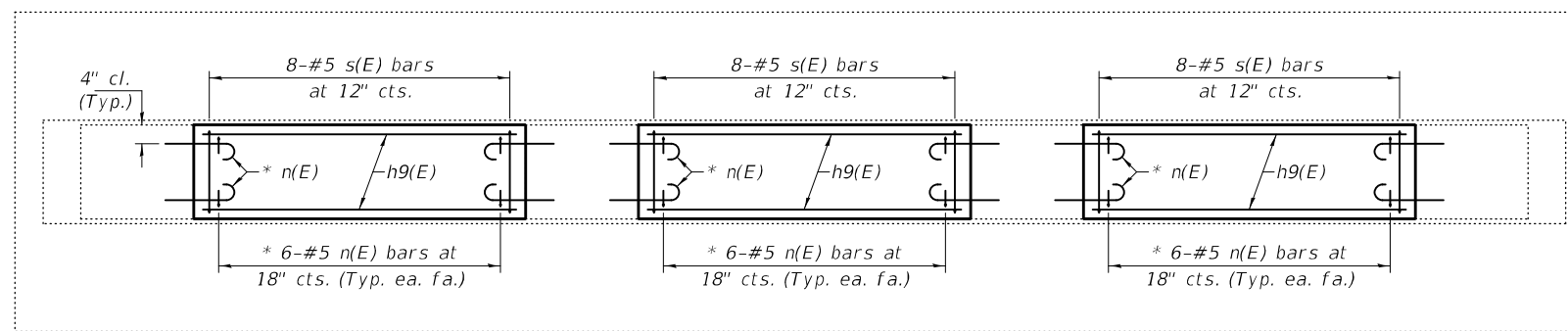
F.A.I. RTE. SECTION COUNTY TOTAL SHEETS SHEET NO.
74 (48-27HB)BY,BY-1)BDR,BJR,BRR KNOX 40 22
CONTRACT NO. 68F73
ILLINOIS FED. AID PROJECT



SECTION B-B



ELEVATION - PIER 3
(Looking South)

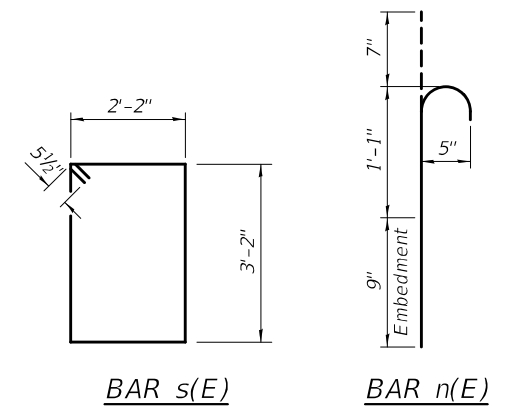


SECTION A-A

NOTES

Plan dimensions and details relative to existing plans are subject to nominal construction variations. The Contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in scope of the work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work. The cost of epoxy grouting reinforcement bars shall be included with Reinforcement Bars, Epoxy Coated. Reinforcement bars designated (E) shall be epoxy coated.

* Epoxy grout n(E) bars in 9" min. holes according to Article 584 of the Standard Specifications.



BAR s(E)

BAR n(E)

BILL OF MATERIAL

Bar	No.	Size	Length	Shape	
h9(E)	27	#5	8'-1"	—	
n(E)	84	#5	2'-5"	⌒	
s(E)	24	#5	11'-7"	□	
Concrete Structures				Cu. Yd.	8.0
Reinforcement Bars, Epoxy Coated				Pound	720
Concrete Sealer				Sq. Ft.	244.0

DESIGNED - CCC
CHECKED - SMR
DRAWN - STEFFEN
CHECKED - CCC SMR

EXAMINED - *Timothy A. Daulton*
ENGINEER OF STRUCTURAL SERVICES
PASSED - *Carl R. Roper*
ENGINEER OF BRIDGES AND STRUCTURES

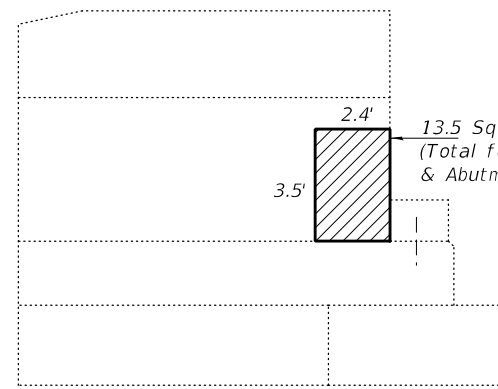
DATE - JANUARY 24, 2022
REVISED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

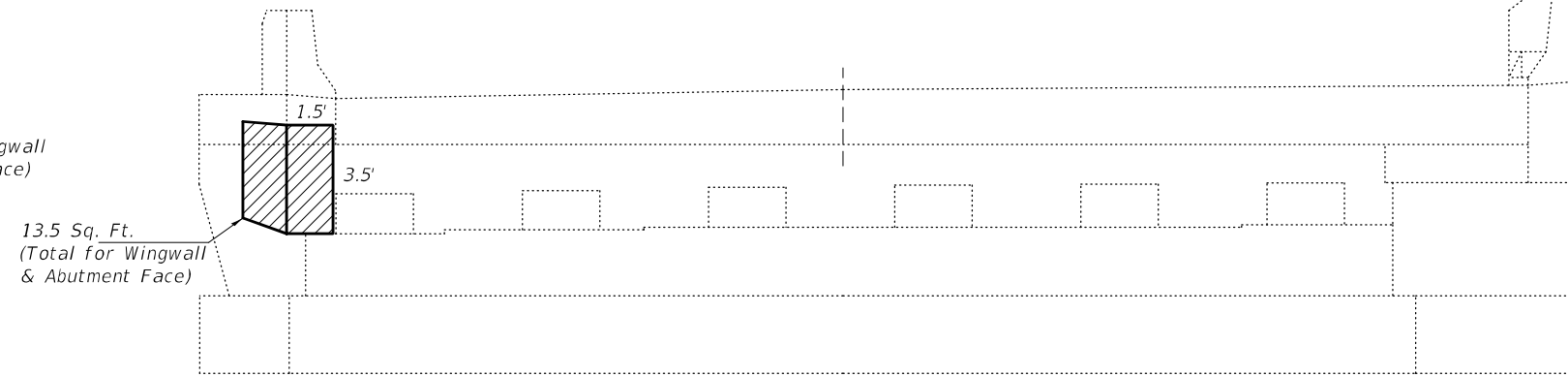
CRASHWALL EXTENSION DETAILS - PIER 3
SN 048-0010 (W.B.)

SHEET NO. 12 OF 20 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(48-27HB)BY-BY-1 BDR,BJR,BRR	KNOX	40	23
CONTRACT NO. 68F73				
ILLINOIS FED. AID PROJECT				




EAST WINGWALL



ELEVATION - SOUTH ABUTMENT

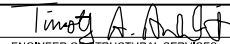

(Looking South)

Note:
Areas of Structural Repair of Concrete shown are estimated. The Engineer shall show actual locations of repairs on the As-built Plans.

 - Structural Repair of Concrete (Depth ≤ 5")

BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Structural Repair of Concrete (Depth ≤ 5")	Sq. Ft.	14.0
Concrete Sealer	Sq. Ft.	14.0

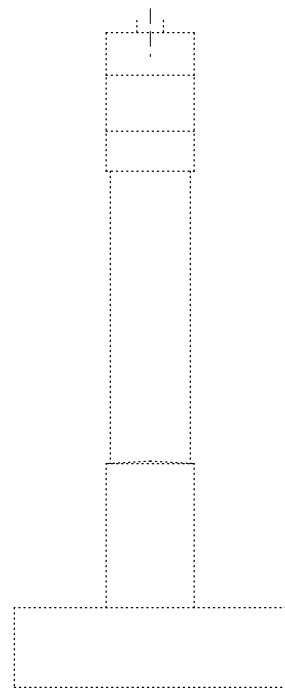
DESIGNED - CCC	EXAMINED - 	DATE - JANUARY 24, 2022
CHECKED - SMR	ENGINEER OF STRUCTURAL SERVICES	
DRAWN - STEFFEN	PASSED - 	REVISED -
CHECKED - CCC SMR	ENGINEER OF BRIDGES AND STRUCTURES	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

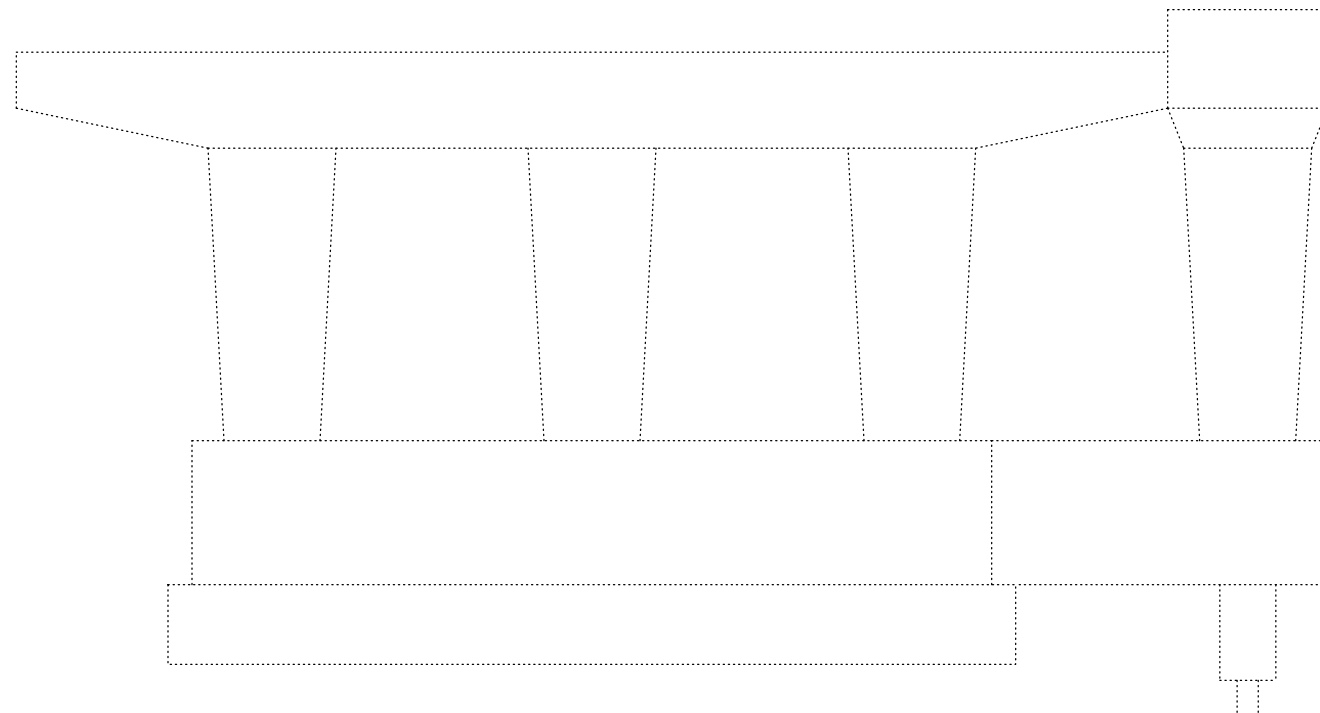
SUBSTRUCTURE REPAIR DETAILS - SOUTH ABUTMENT
SN 048-0009 (E.B.)

SHEET NO. 13 OF 20 SHEETS

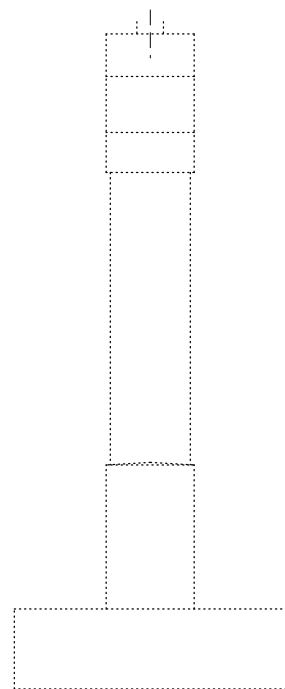
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CONTRACT NO. 68F73				
ILLINOIS		FED. AID PROJECT		



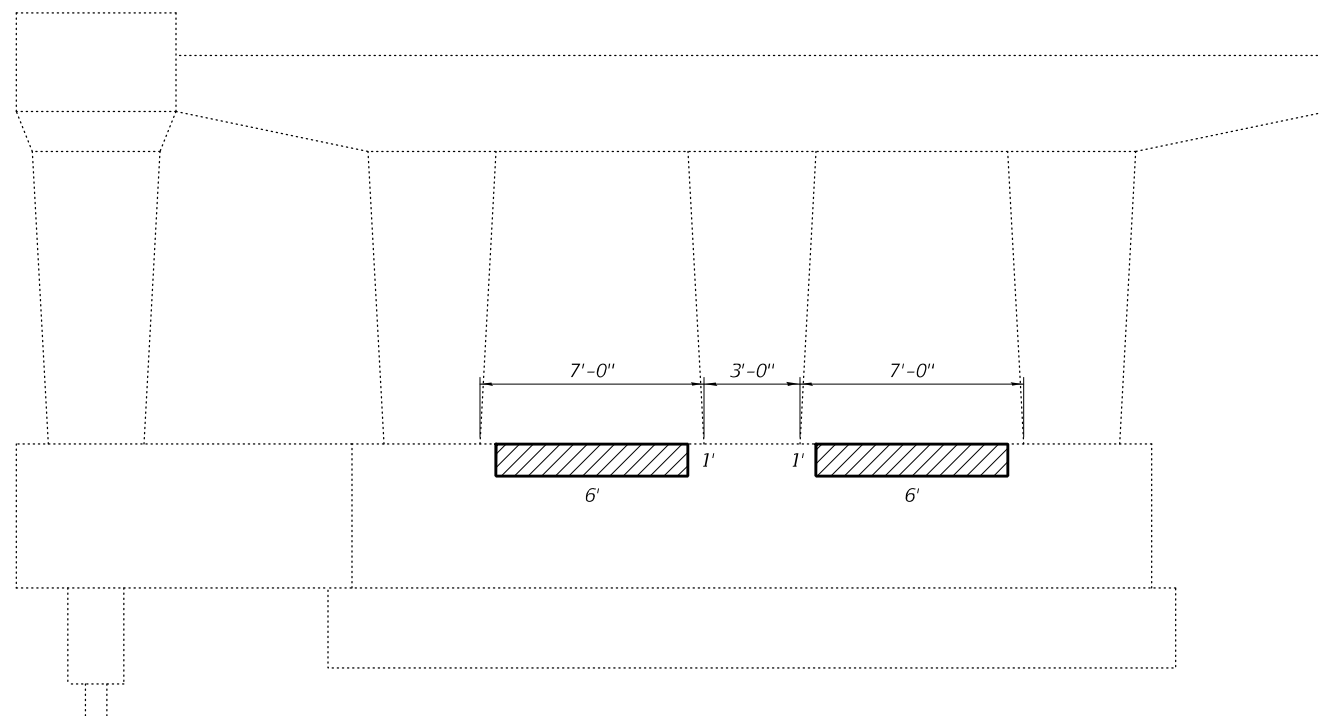
EAST END VIEW



PIER 1 - NORTH FACE




WEST END VIEW



PIER 1 - SOUTH FACE



Note:
Areas of Structural Repair of Concrete shown are estimated. The Engineer shall show actual locations of repairs on the As-built Plans.

 - Structural Repair of Concrete (Depth \leq 5")

BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Structural Repair of Concrete (Depth \leq 5")	Sq. Ft.	12.0
Concrete Sealer	Sq. Ft.	12.0

DESIGNED - CCC
CHECKED - SMR
DRAWN - STEFFEN
CHECKED - CCC SMR

EXAMINED
PASSED


 ENGINEER OF STRUCTURAL SERVICES
 ENGINEER OF BRIDGES AND STRUCTURES

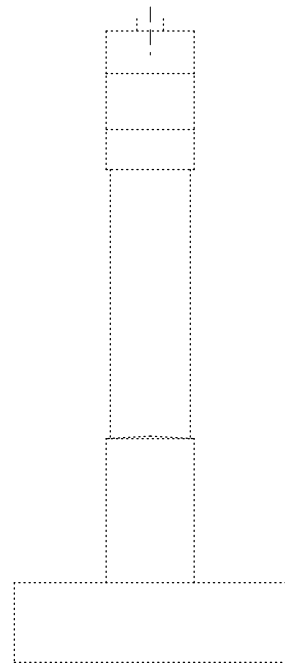
DATE - JANUARY 24, 2022
 REVISED -
 REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

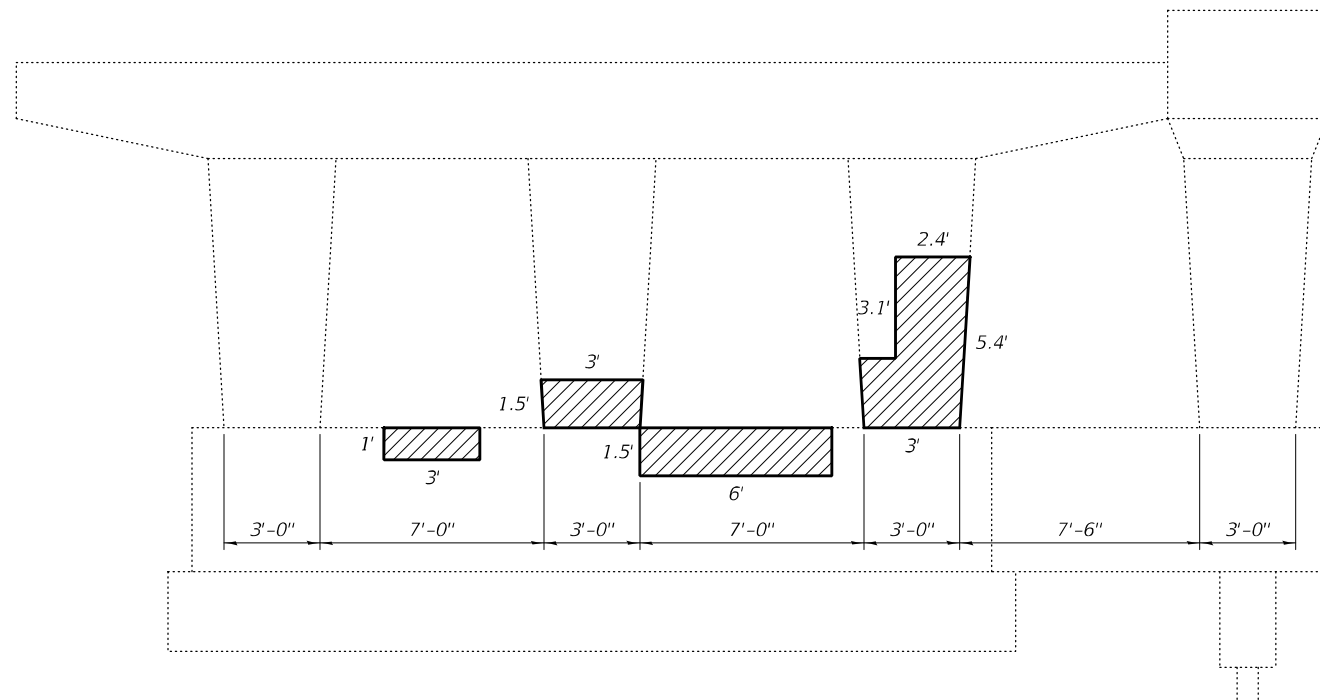
SUBSTRUCTURE REPAIR DETAILS - PIER 1
SN 048-0009 (E.B.)

SHEET NO. 14 OF 20 SHEETS

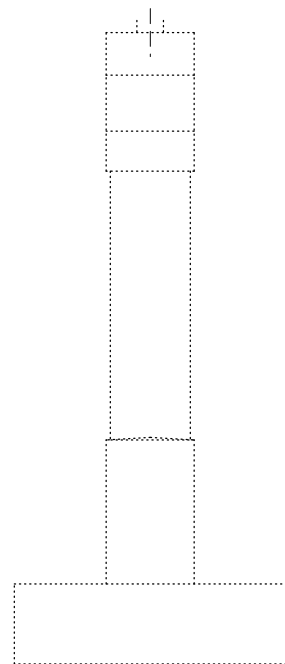
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CONTRACT NO. 68F73				
ILLINOIS		FED. AID PROJECT		



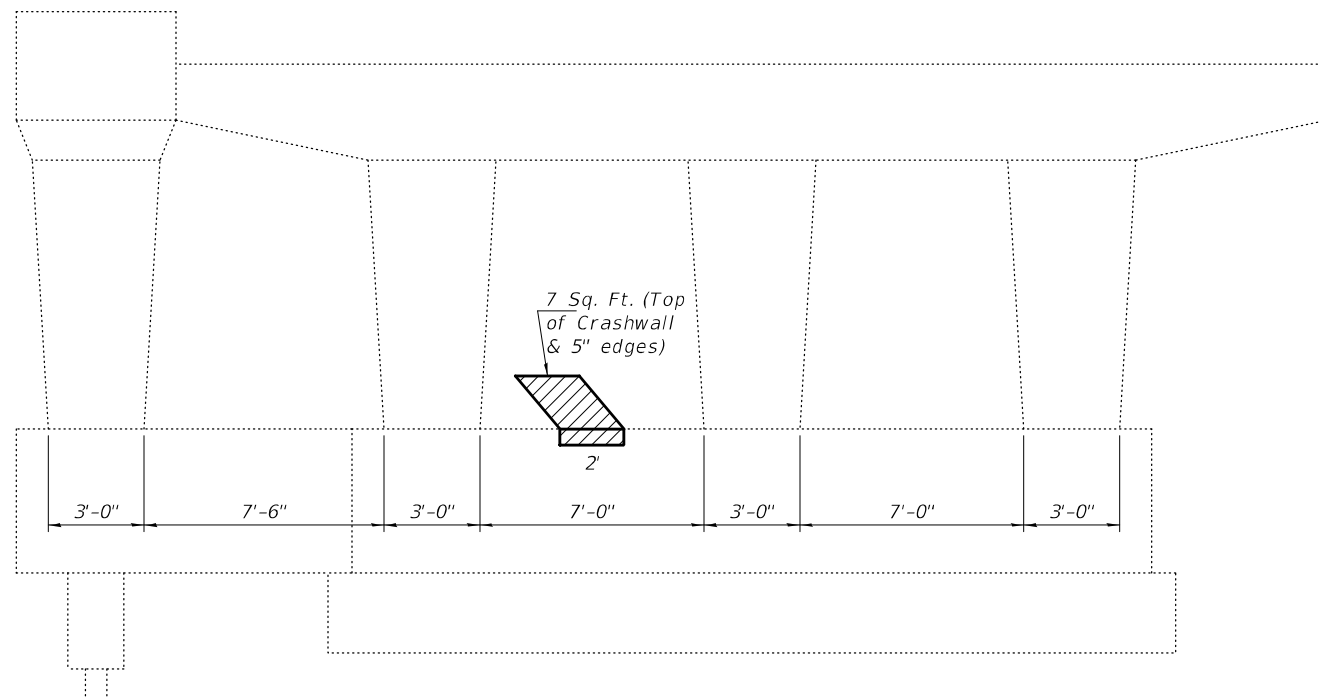
EAST END VIEW



PIER 3 - NORTH FACE




WEST END VIEW



PIER 3 - SOUTH FACE



Note:
Areas of Structural Repair of Concrete shown are estimated. The Engineer shall show actual locations of repairs on the As-built Plans.

 - Structural Repair of Concrete (Depth \leq 5")

BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Structural Repair of Concrete (Depth \leq 5")	Sq. Ft.	45.5
Concrete Sealer	Sq. Ft.	45.5

DESIGNED - CCC
CHECKED - SMR
DRAWN - STEFFEN
CHECKED - CCC SMR

EXAMINED
PASSED


 ENGINEER OF STRUCTURAL SERVICES
 ENGINEER OF BRIDGES AND STRUCTURES

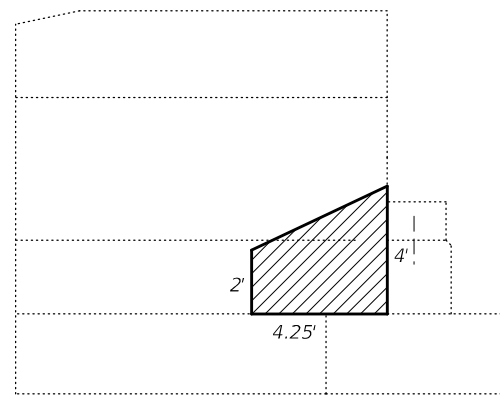
DATE - JANUARY 24, 2022
REVISED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

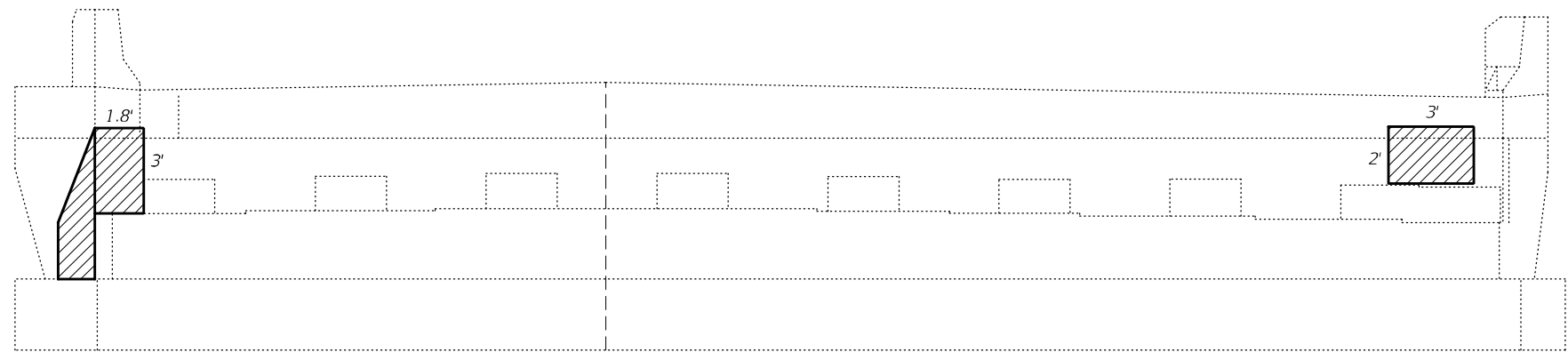
SUBSTRUCTURE REPAIR DETAILS - PIER 3
SN 048-0009 (E.B.)

SHEET NO. 15 OF 20 SHEETS

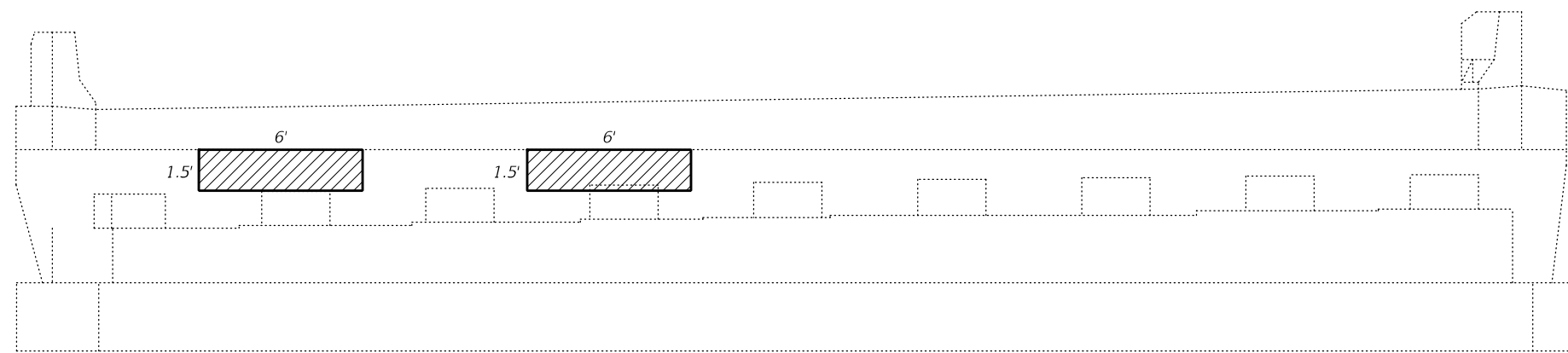
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(48-27HB)BY,BY-1]BDR,BJR,BRR	KNOX	40	26
CONTRACT NO. 68F73				
ILLINOIS		FED. AID PROJECT		



WEST WINGWALL - NORTH ABUTMENT




ELEVATION - NORTH ABUTMENT
(Looking North)





ELEVATION - SOUTH ABUTMENT
(Looking South)

Note:
Areas of Structural Repair of Concrete shown are estimated. The Engineer shall show actual locations of repairs on the As-built Plans.

 - Structural Repair of Concrete (Depth \leq 5")

BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Structural Repair of Concrete (Depth \leq 5")	Sq. Ft.	42.3
Concrete Sealer	Sq. Ft.	42.3

DESIGNED - CCC	EXAMINED - 	DATE - JANUARY 24, 2022
CHECKED - SMR	ENGINEER OF STRUCTURAL SERVICES	
DRAWN - STEFFEN	PASSED - 	REVISED -
CHECKED - CCC SMR	ENGINEER OF BRIDGES AND STRUCTURES	REVISED -

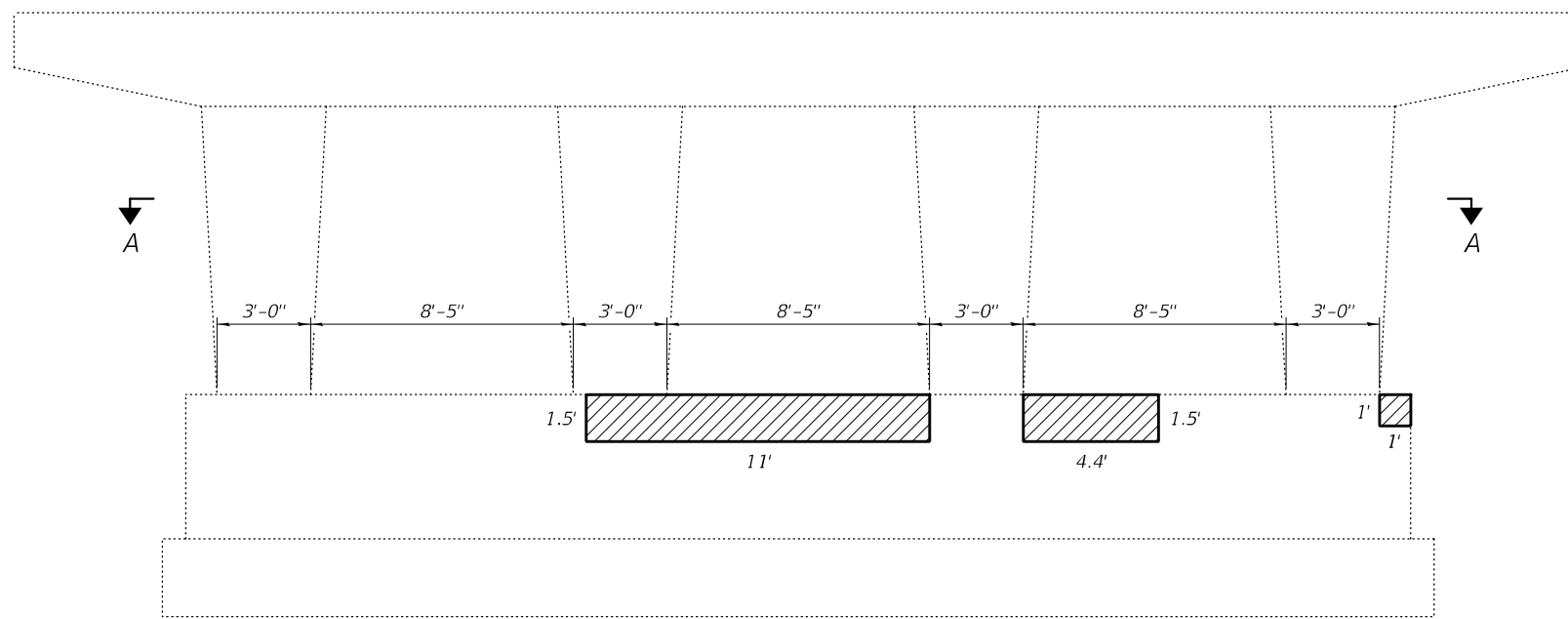
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBSTRUCTURE REPAIR DETAILS - ABUTMENTS
SN 048-0010 (W.B.)

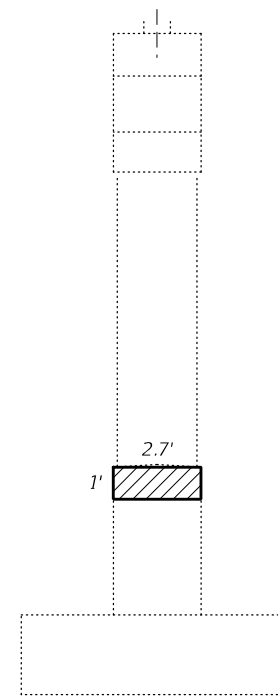
SHEET NO. 16 OF 20 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(48-27HB)BY,BY-1]BDR,BJR,BRR	KNOX	40	27
ILLINOIS			FED. AID PROJECT	

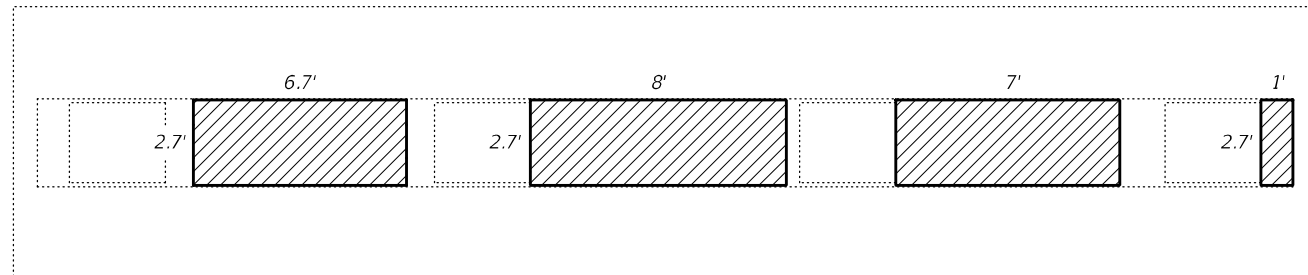
CONTRACT NO. 68F73



PIER 1 - SOUTH FACE



EAST END VIEW



SECTION A-A

Note:
Areas of Structural Repair of Concrete shown are estimated. The Engineer shall show actual locations of repairs on the As-built Plans.

- Structural Repair of Concrete (Depth \leq 5")

BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Structural Repair of Concrete (Depth \leq 5")	Sq. Ft.	88.0
Concrete Sealer	Sq. Ft.	88.0

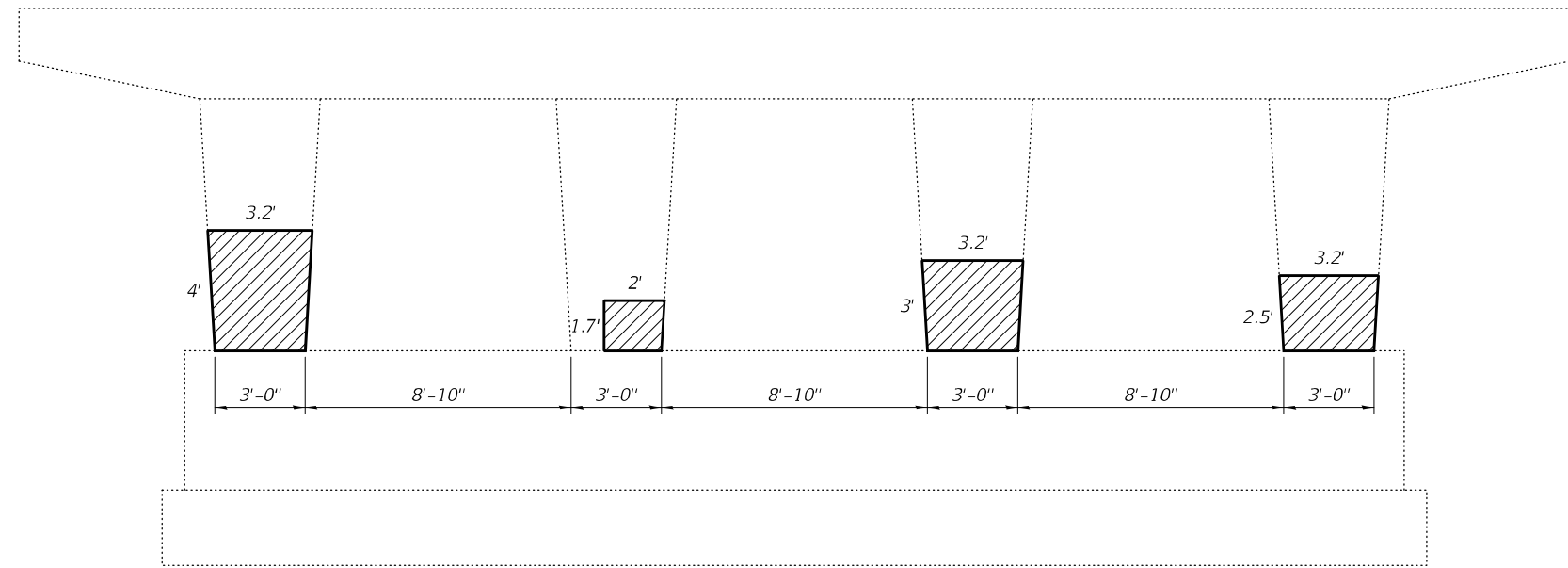
DESIGNED - CCC	EXAMINED -	DATE - JANUARY 24, 2022
CHECKED - SMR	ENGINEER OF STRUCTURAL SERVICES	
DRAWN - STEFFEN	PASSED -	REVISOR -
CHECKED - CCC SMR	ENGINEER OF BRIDGES AND STRUCTURES	REVISOR -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBSTRUCTURE REPAIR DETAILS - PIER 1
SN 048-0010 (W.B.)


SHEET NO. 17 OF 20 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(48-27HB)BY,BY-1]BDR,BJR,BRR	KNOX	40	28
CONTRACT NO. 68F73			ILLINOIS FED. AID PROJECT	





PIER 3 - NORTH FACE

Note:
 Areas of Structural Repair of Concrete shown are estimated. The Engineer shall show actual locations of repairs on the As-built Plans.

 - Structural Repair of Concrete (Depth ≤ 5")

BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Structural Repair of Concrete (Depth ≤ 5")	Sq. Ft.	33.4
Concrete Sealer	Sq. Ft.	33.4

DESIGNED - CCC	EXAMINED - 	DATE - JANUARY 24, 2022
CHECKED - SMR	ENGINEER OF STRUCTURAL SERVICES	
DRAWN - STEFFEN	PASSED - 	REVISED -
CHECKED - CCC SMR	ENGINEER OF BRIDGES AND STRUCTURES	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

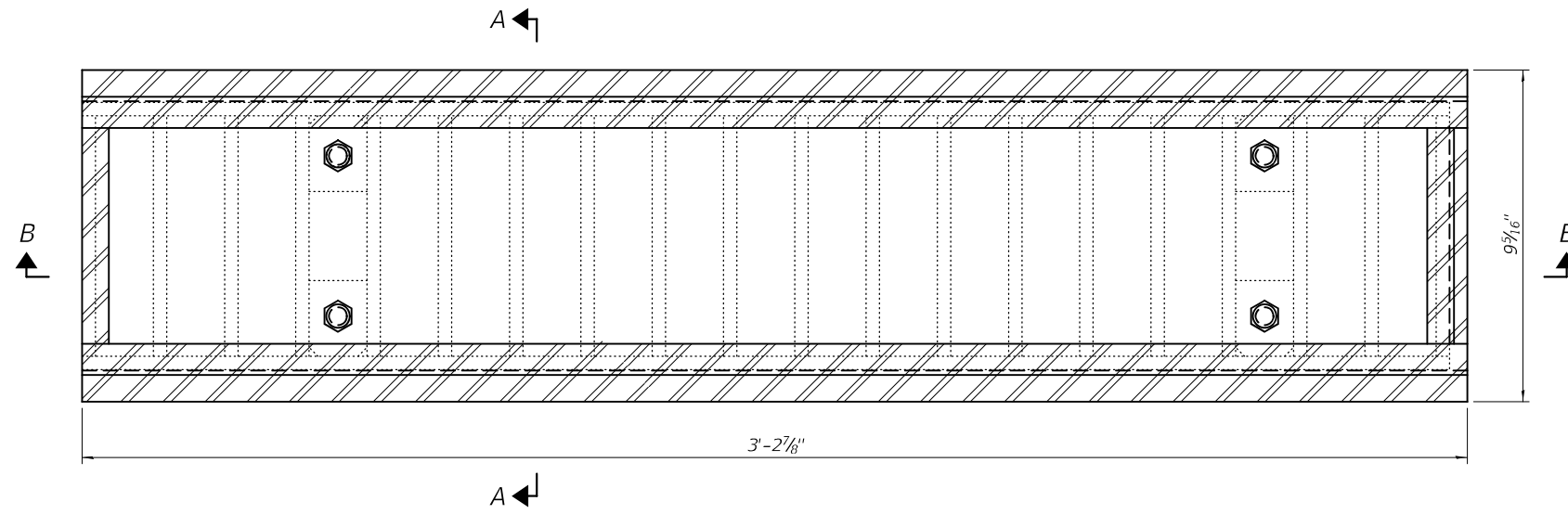
SUBSTRUCTURE REPAIR DETAILS - PIER 3
 SN 048-0010 (W.B.)

SHEET NO. 18 OF 20 SHEETS

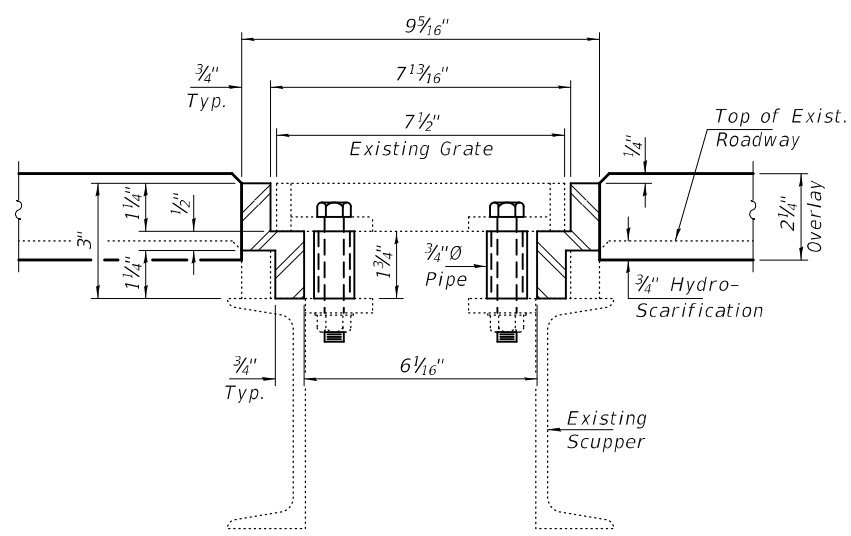
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74	(48-27HB)BY,BY-1]BDR,BJR,BRR	KNOX	40	29
CONTRACT NO. 68F73				
ILLINOIS		FED. AID PROJECT		

NOTES

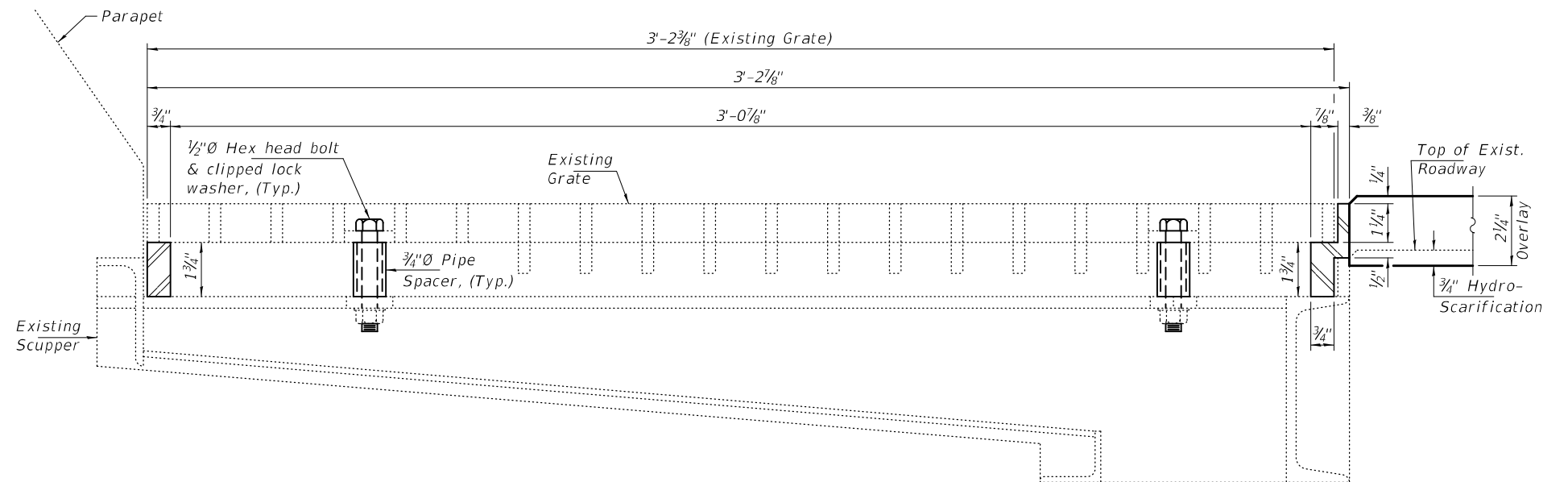
All structural steel shall conform to AASHTO Classification M-270 Gr. 36.
 The adjusting scupper ring, 3/4"Ø pipe sleeve spacers, bolts, and lock washers shall be hot dip galvanized according to Special Provision "Hot Dip Galvanizing for Structural Steel".
 Plan dimensions and details relative to existing plans are subject to nominal construction variations. The Contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in scope of the work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.
 Shop plans for proposed adjusting scupper ring shall be submitted for approval prior to fabrication.
 The 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, clean existing scuppers, install adjusting scupper rings and reinstalling grates is included in the cost per unit each for Drainage Scuppers to be Adjusted.



PLAN



SECTION A-A



SECTION B-B

- Adjusting Scupper Ring

BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Drainage Scupper to be Adjusted	Each	4

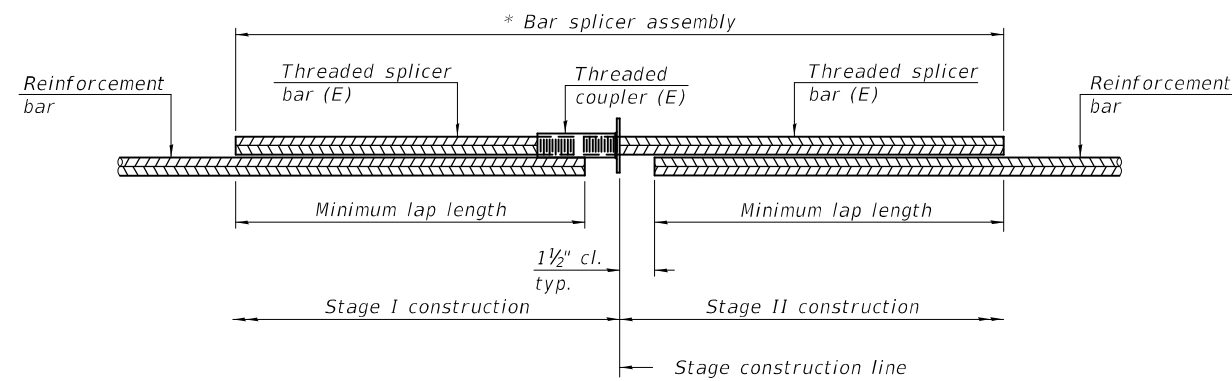
DESIGNED - CCC	EXAMINED - <i>Timothy A. Daulton</i> ENGINEER OF STRUCTURAL SERVICES	DATE - JANUARY 24, 2022
CHECKED - SMR	PASSED - <i>Carl Ringer</i> ENGINEER OF BRIDGES AND STRUCTURES	REVISED -
DRAWN - STEFFEN		REVISED -
CHECKED - CCC SMR		

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**SCUPPER ADJUSTMENT DETAILS
SN 048-0009 (E.B.) & -0010 (W.B.)**

SHEET NO. 19 OF 20 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(48-27HB)BY-BY-1]BDR,BJR,BRR	KNOX	40	30
CONTRACT NO. 68F73			ILLINOIS FED. AID PROJECT	

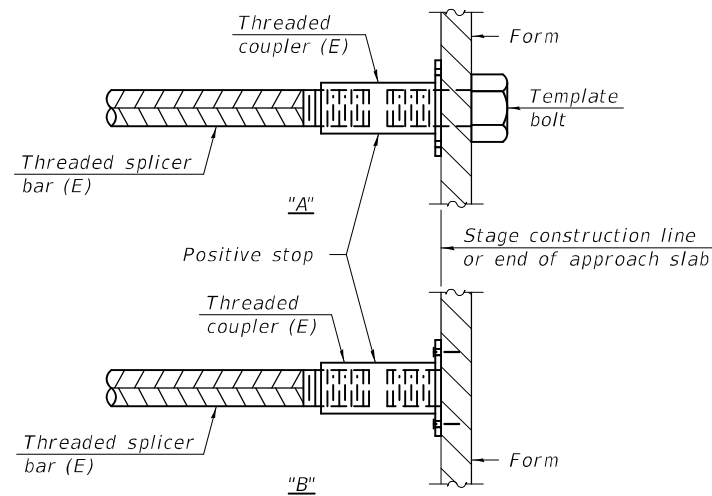


STANDARD BAR SPLICER ASSEMBLY PLAN
(All components shall be provided from one supplier)

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

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

Location	Bar size	No. assemblies required	Minimum lap length
Deck	#5	32	3'-6"
Abutment	#6	24	4'-0"

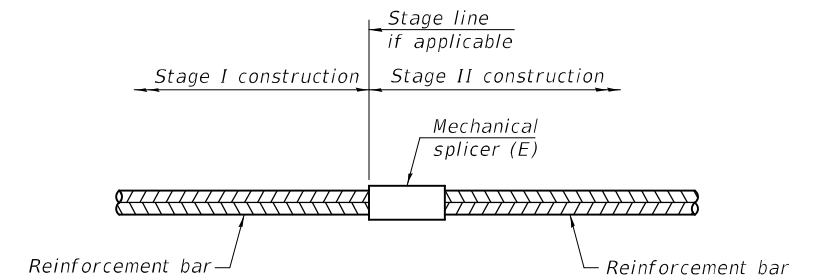


INSTALLATION AND SETTING METHODS

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

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

(E) : Indicates epoxy coating.



STANDARD MECHANICAL SPLICER

Location	Bar size	No. assemblies required

Notes:

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

All reinforcement shall be lapped and tied to the splicer bars.

Bar splicer assemblies shall be epoxy coated according to the requirements for reinforcement bars. See Section 508 of the Standard Specifications.

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

BSD-1

1-1-2020

DESIGNED - CCC	EXAMINED	DATE - JANUARY 24, 2022
CHECKED - SMR	<i>Timothy A. ...</i> ENGINEER OF STRUCTURAL SERVICES	REVISED -
DRAWN - STEFFEN	PASSED	REVISED -
CHECKED - CCC SMR	<i>Carl ...</i> ENGINEER OF BRIDGES AND STRUCTURES	

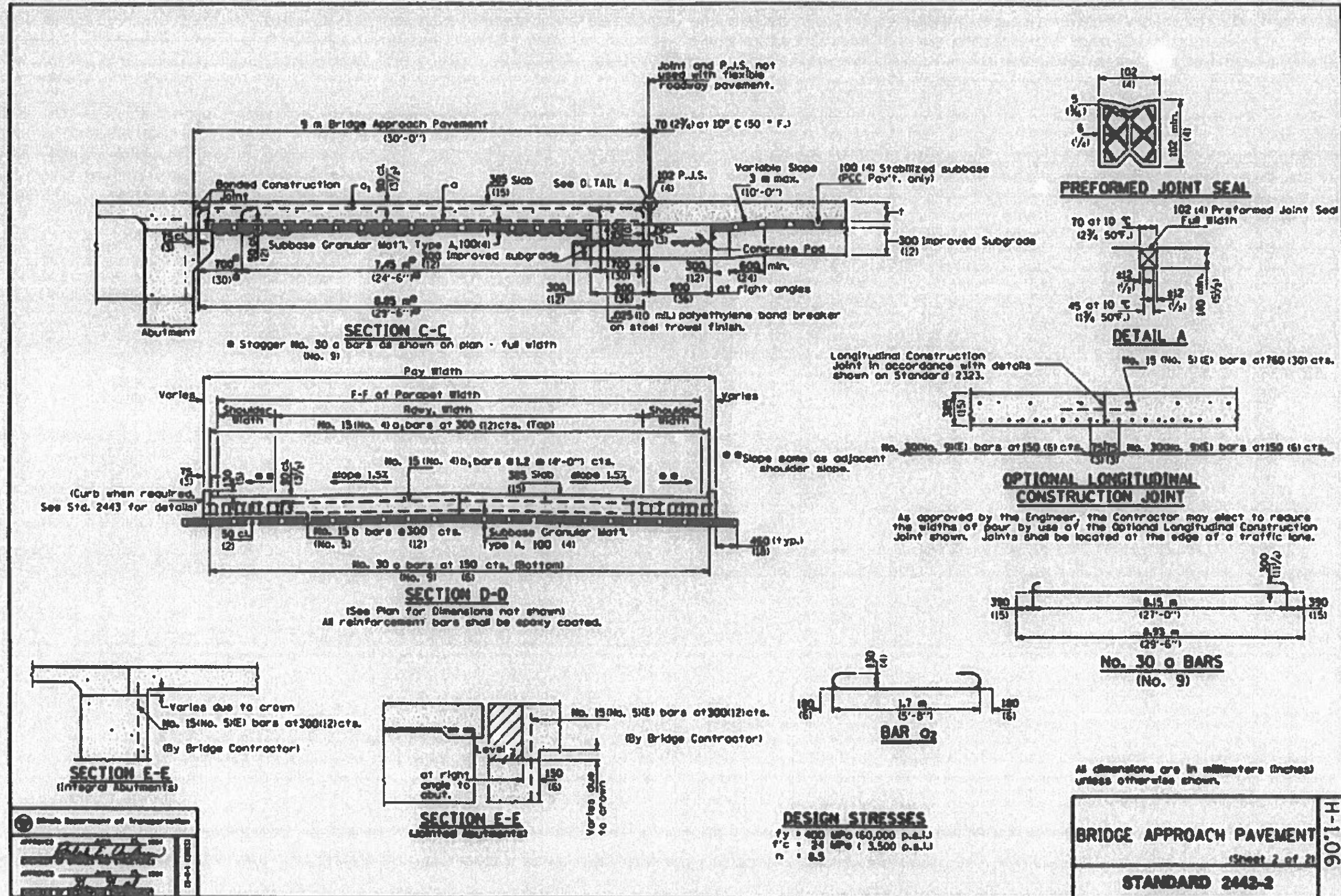
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BAR SPLICER ASSEMBLY AND MECHANICAL SPLICER DETAILS
SN 048-0009 (E.B.) & -0010 (W.B.)

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(48-27HB)BY,BY-1]BDR,BJR,BRR	KNOX	40	31
			CONTRACT NO. 68F73	
		ILLINOIS	FED. AID PROJECT	

SHEET NO. 20 OF 20 SHEETS

FOR INFORMATION ONLY



Illinois Department of Transportation
 Approved: [Signature]
 Date: [Date]

BRIDGE APPROACH PAVEMENT		H-1.06
Sheet 2 of 21		
STANDARD 2443-2		

DRAWING NOT TO SCALE

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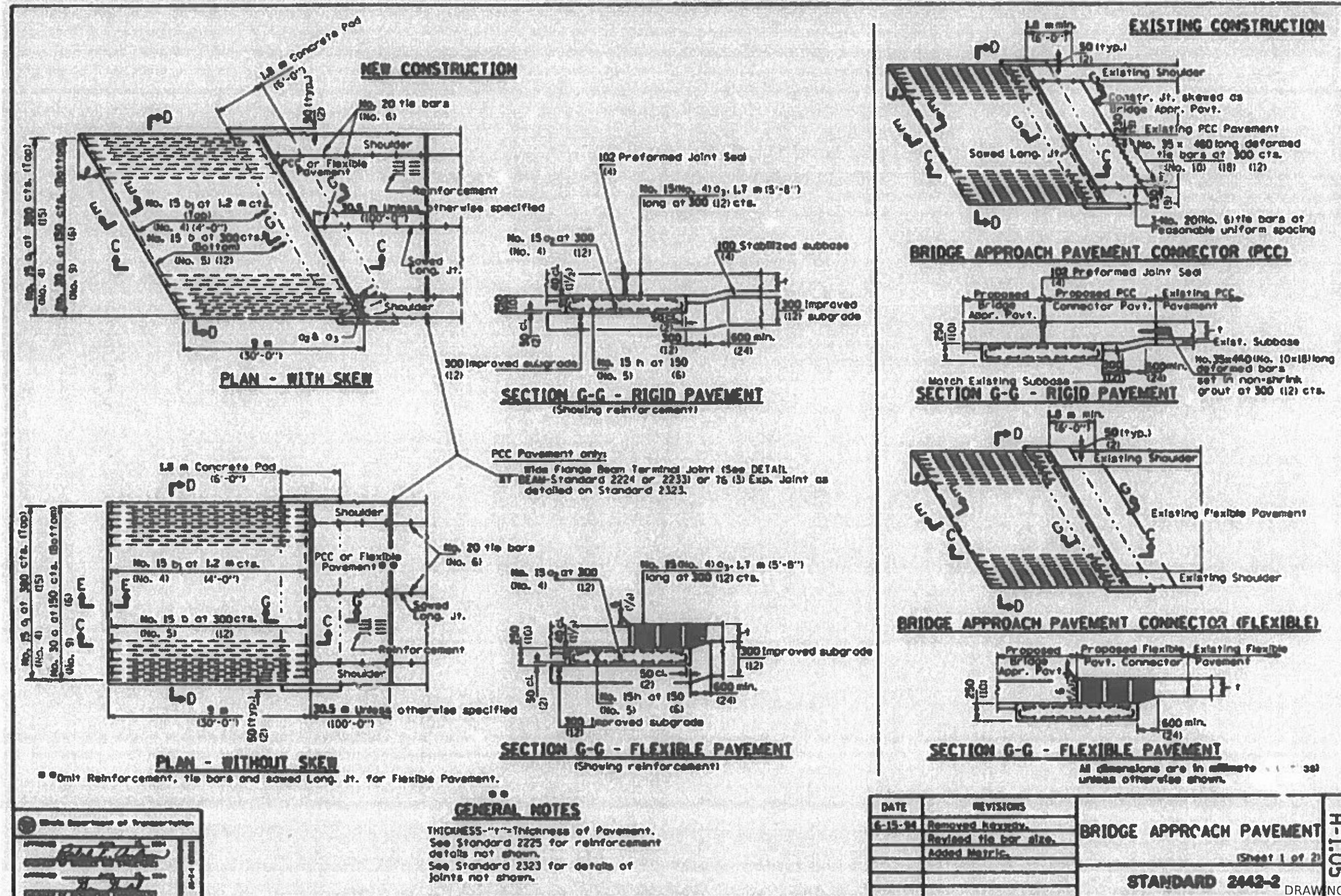
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BRIDGE DETAILS

SCALE: SHEET 55 OF 505 SHEETS STA. TO STA.

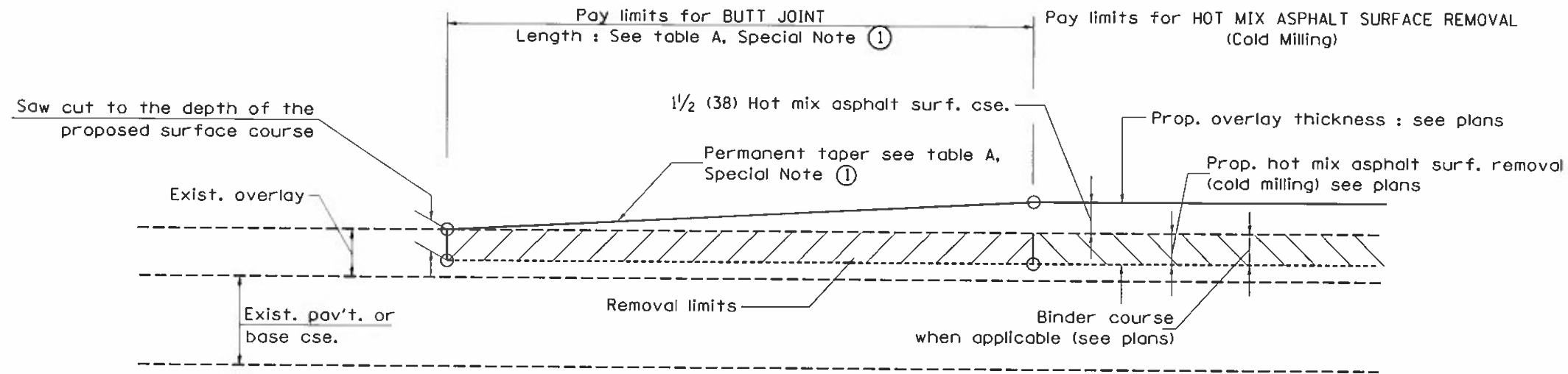
F.A.I. RTE. 74	SECTION (48-274B)BY: J18DR,BJR,BRR	COUNTY KNOX	TOTAL SHEETS 40	SHEET NO. 32
CONTRACT NO. 68F73			ILLINOIS FED. AID PROJECT	

FOR INFORMATION ONLY



USER NAME = Lewis	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	BRIDGE DETAILS	F.A.I. RTE. 74	SECTION (148-27H) (BY: 1) (BDR, BIR, BRR)	COUNTY KNOX	TOTAL SHEETS 40	SHEET NO. 33	
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PLOT DATE = 12/7/2021	DATE -	REVISED -			ILLINOIS FED. AID PROJECT					

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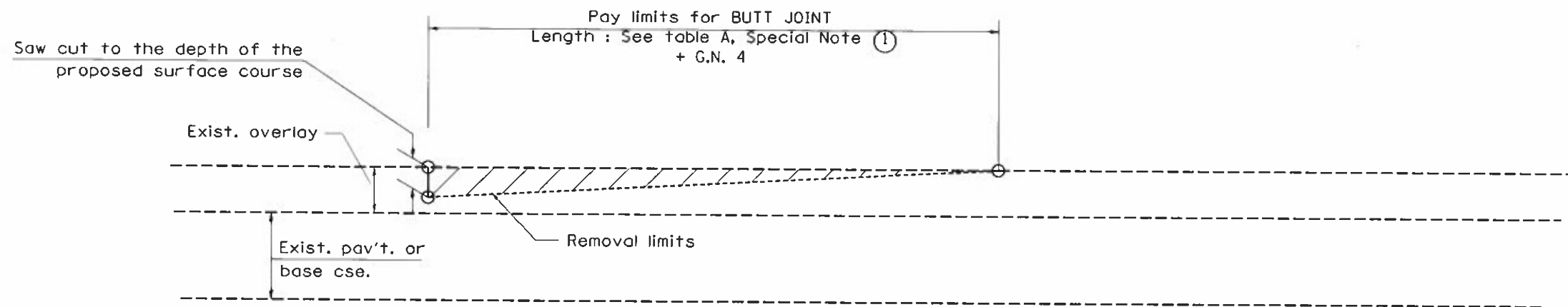
CASE 1 : WITH HOT MIX ASPHALT SURFACE REMOVAL (COLD MILLING)

**TABLE A
TAPER RATES**

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

GENERAL NOTES

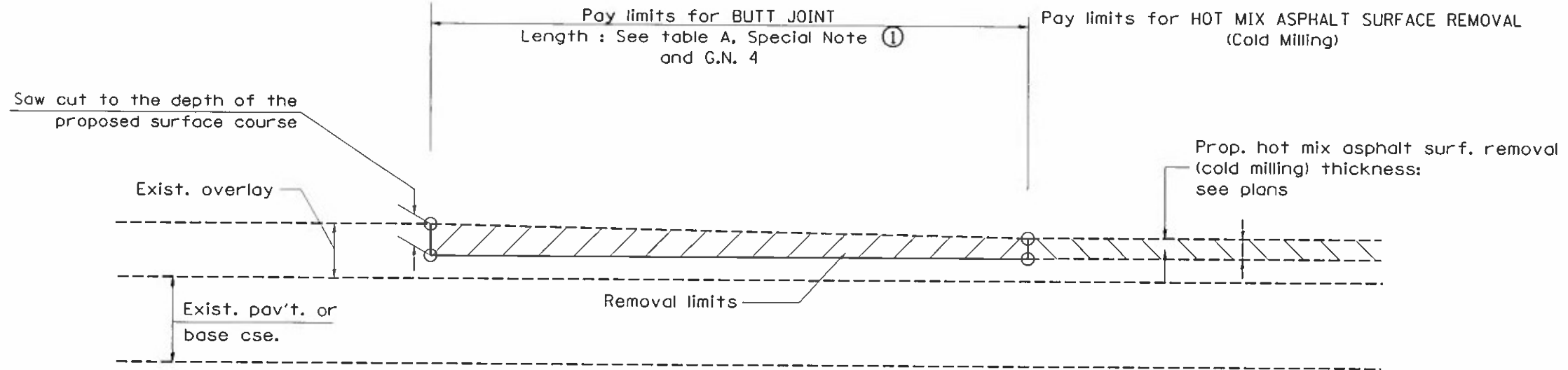
- The work shall be done in accordance with Article 406.08 and the Special Provision for Butt Joints.
- The pavement surface to be removed may be either bituminous or P.C. concrete. The work shall be performed in accordance with Article 440.04 and the Special Provisions for Butt Joints.
- The saw cut 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.
- 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.
- Temporary ramps are paid for separately and not included in the cost of the butt joints.



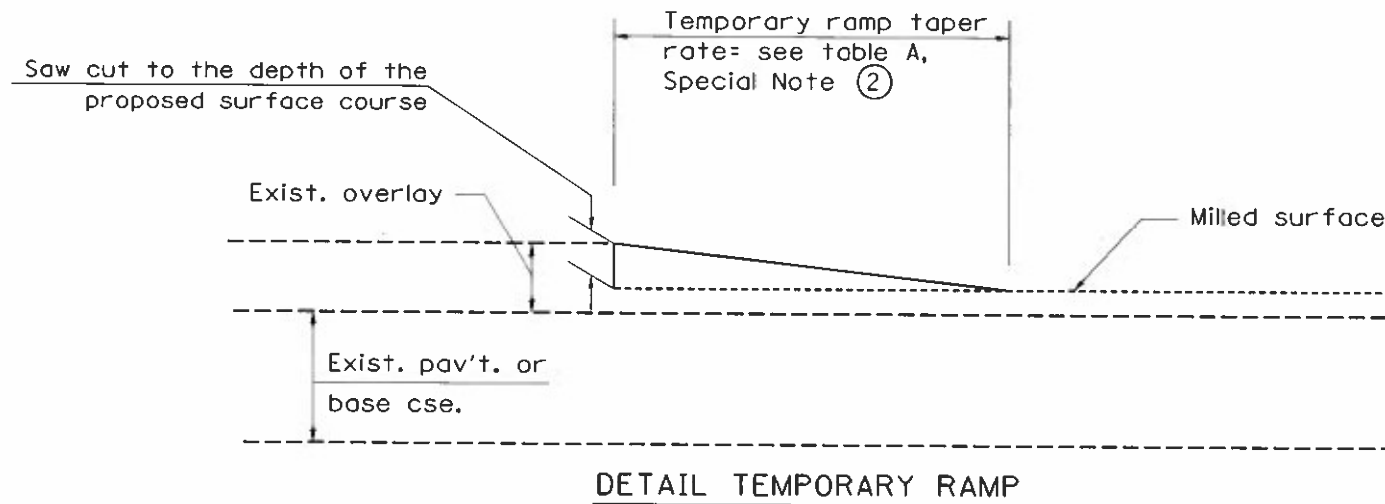
CASE 2 : NO HOT MIX ASPHALT SURFACE REMOVAL (COLD MILLING)

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

01-01-97	RENUM. C-23.01, NEW REVISION BOX	T.P.	08-21-13	MAJOR MODIFICATIONS	R.D.	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	BUTT JOINTS	SHT. 1 OF 3 CADD STD. 406101-04	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
04-01-97	CORRECTION TO DEPTH	J.A.	04-12-16	MINOR CORRECTIONS	R.D.				74	[(48-278)BY: J BDR,B R,BRR	KNOX	40	34	
09-15-05	REVISED DESIGNER NOTE	M.M.A.	02-14-17	ADDED NOTE 5	R.D.				CONTRACT NO. 68F73					
10-16-06	REVISED TO 2007 SPEC.	M.A.	07-16-19	Wording and Spelling corrections	R.D.				FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT					



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



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

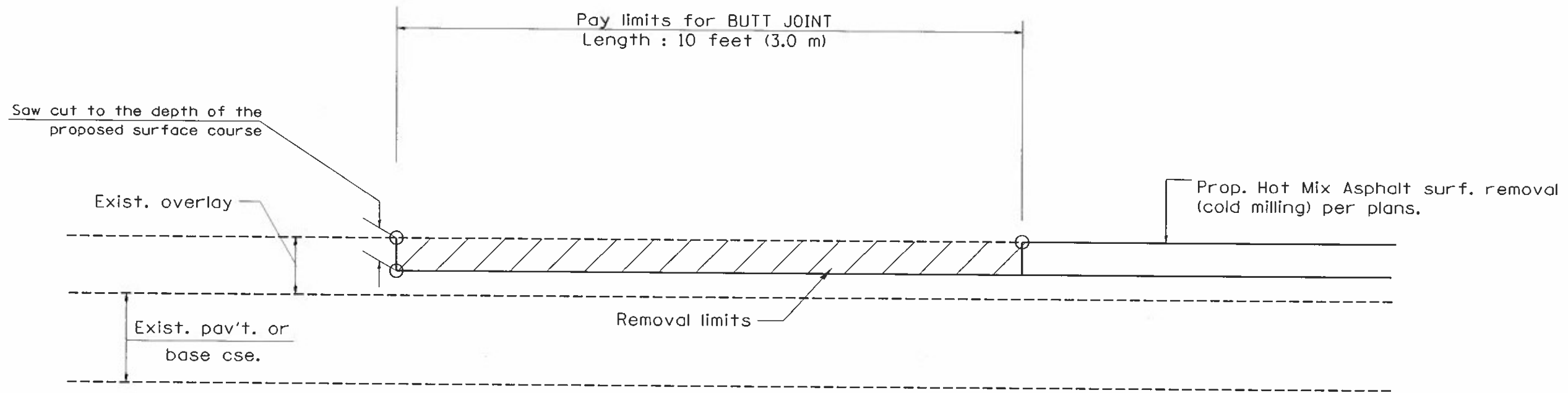
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

BUTT JOINTS

NOT TO SCALE

SHT. 2 OF 3
CADD STD. 406101-D4

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(4)-27H8(BY-BY-1)BDR,BJR,BRR	KNOX	40	35
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 68F73	



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

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

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

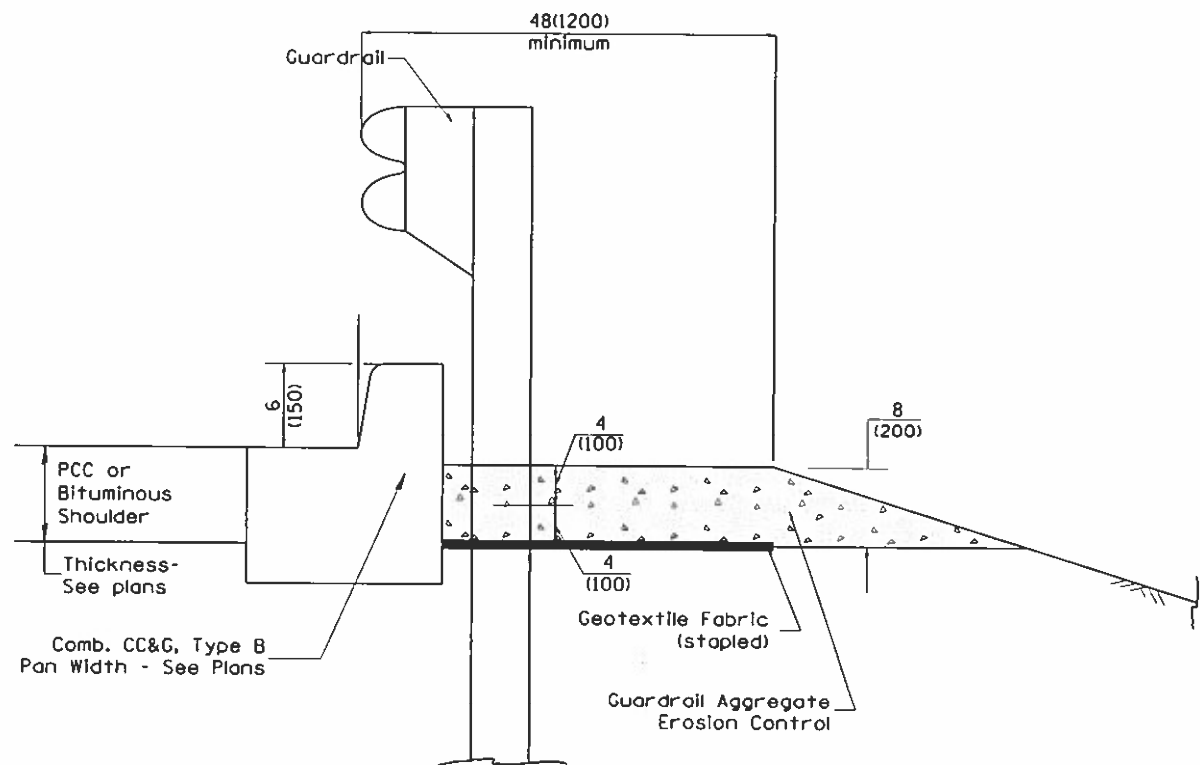
BUTT JOINTS

NOT TO SCALE

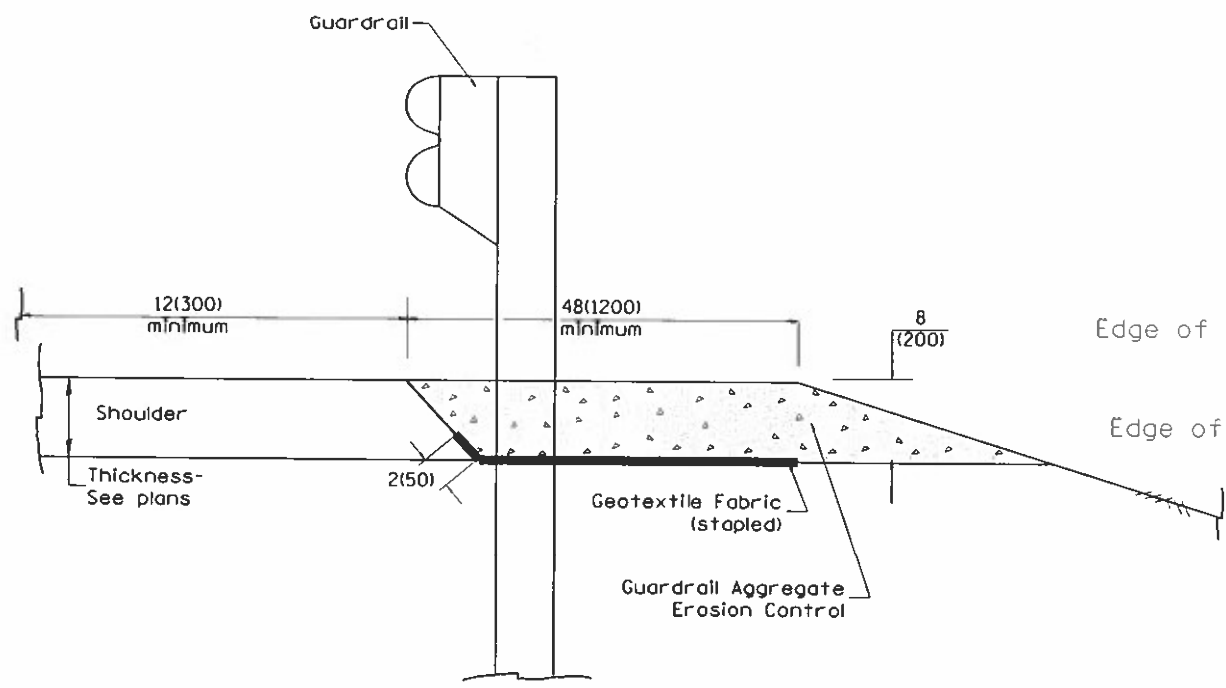
SHT. 3 OF 3
 CADD STD. 406101-D4

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	[(48-27HB)BY-1]BOR.BJR,BRR	KNOX	40	36
FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT			CONTRACT NO. 68F73	

USE GUARDRAIL AGGREGATE EROSION CONTROL AT GUARDRAIL INSTALLATIONS WHERE GRADES ARE LESS THAN 1% (INCLUDE DISTRICT SPECIAL PROVISION).
 INCLUDE STATE STANDARD 610001, IF APPLICABLE.
 INCLUDE THE FOLLOWING DISTRICT CADD STANDARDS, AS NEEDED: SLOPE DRAINS FOR EXPOSED PIPES; SLOPE DRAINS FOR BURIED PIPES; SEEPAGE COLLARS FOR BURIED PIPES.
 SEEPAGE COLLARS FOR EXPOSED PIPES; CONCRETE THRUST BLOCKS AND PIPE ELBOW.
 INCLUDE DISTRICT SPECIAL PROVISION - "AGGREGATE QUALITY" FOR PROJECTS LOCATED IN THE WESTERN AREA OF THE DISTRICT - APPROX. DIVIDING LINE IS IL 97.
 DELETE DESIGNER NOTES WHEN INSERTING INTO PLAN FILES.
 OPERATIONS PREFERS USE OF PIPE OUTLETTING ONTO FORESLOPE WITH RIPRAP. USE NON-METALLIC PIPE WHEN POSSIBLE BECAUSE OF FUTURE CORROSION ISSUES.
 IF NO OTHER SEEDING IS PAID FOR ON THE CONTRACT, USE DISTRICT SPECIAL PROVISION FOR SEEDING, MINOR AREAS.



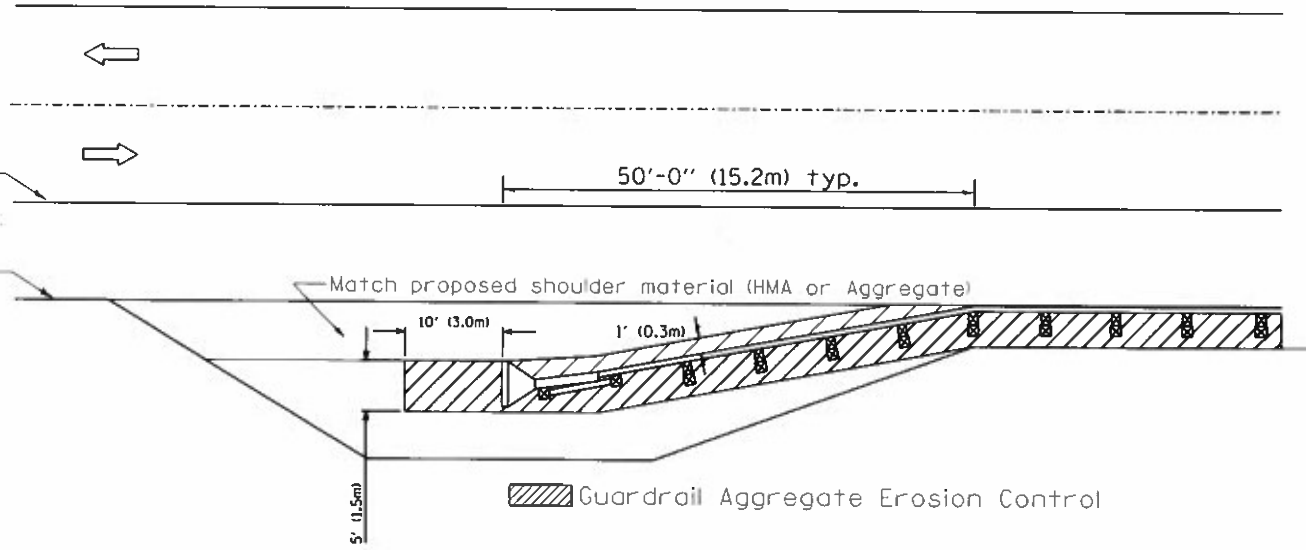
TYPICAL SECTION WITH COMBINATION CONCRETE CURB & GUTTER



TYPICAL SECTION WITHOUT EROSION CONTROL CURB

GENERAL NOTES: GUARDRAIL AGGREGATE EROSION CONTROL

1. This work shall consist of grading as needed, furnishing and installing geotextile fabric and staples, and furnishing, placing and shaping crushed aggregate around and behind Steel Plate Beam Guardrail posts in accordance with Plan Details.
2. Before placing the aggregate and the Geotextile Fabric, weeds and grass shall be removed from the area to be covered.
3. After the area has been prepared, and in a dry condition, the Geotextile fabric shall be placed with a 12(300) minimum overlap. A knife cut for guardrail post installation is necessary.
4. The aggregate shall be deposited, compacted and shaped by either mechanical or hand methods, in a manner reasonably true to line and grade.
5. The Contractor shall have the option of placing the guardrail before or after the Geotextile Fabric and Aggregate are in place. If the guardrail is placed after the Geotextile Fabric and Aggregate, then any voids must be filled and the aggregate returned to line and grade.
6. Materials shall meet the following requirements:
 - A. The crushed aggregate shall be CA1 gradation in accordance with Article 1004.01(c) of the Standard Specifications.
 - B. The Geotextile Fabric shall be nonwoven fabric in accordance with Article 1080.02 of the Standard Specifications.



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

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

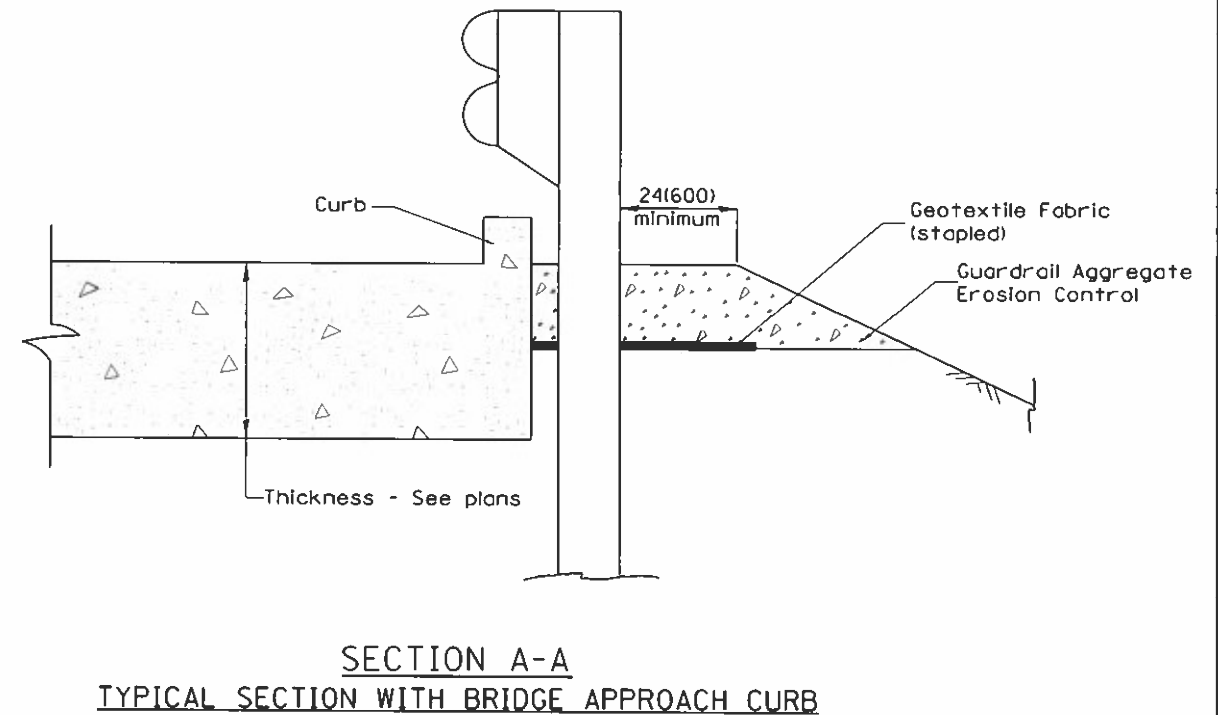
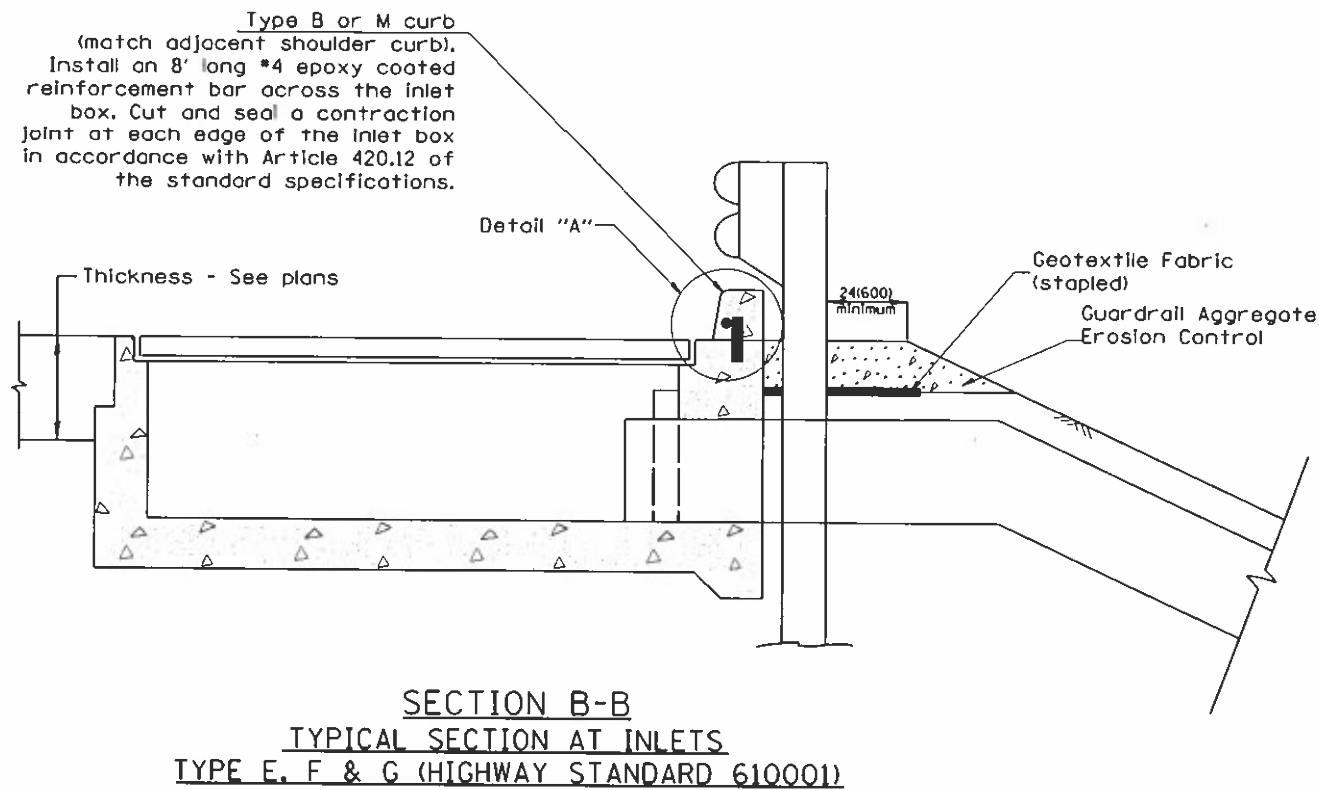
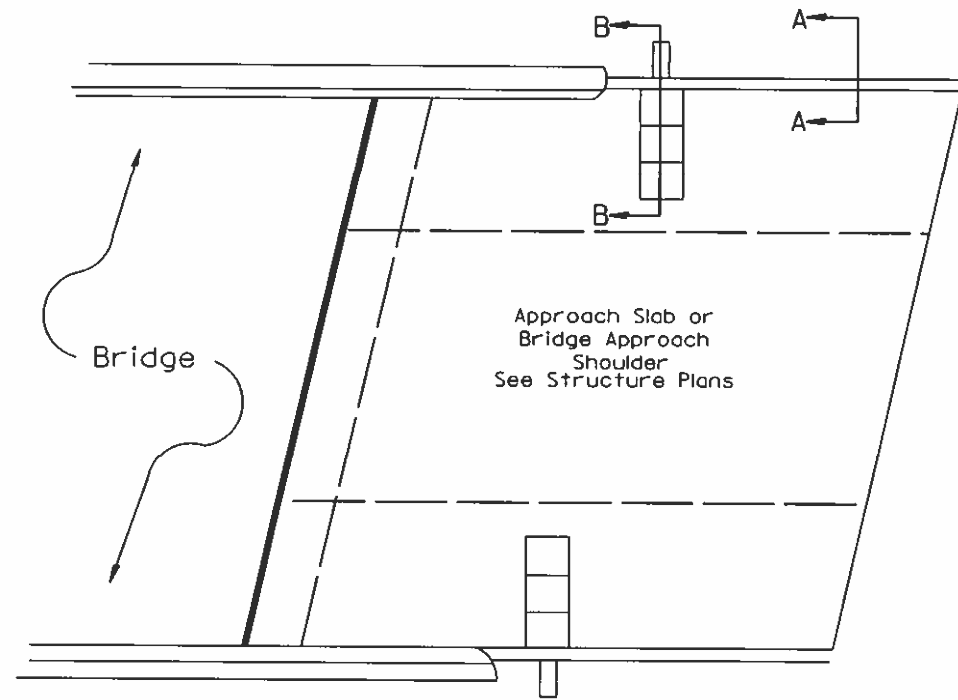
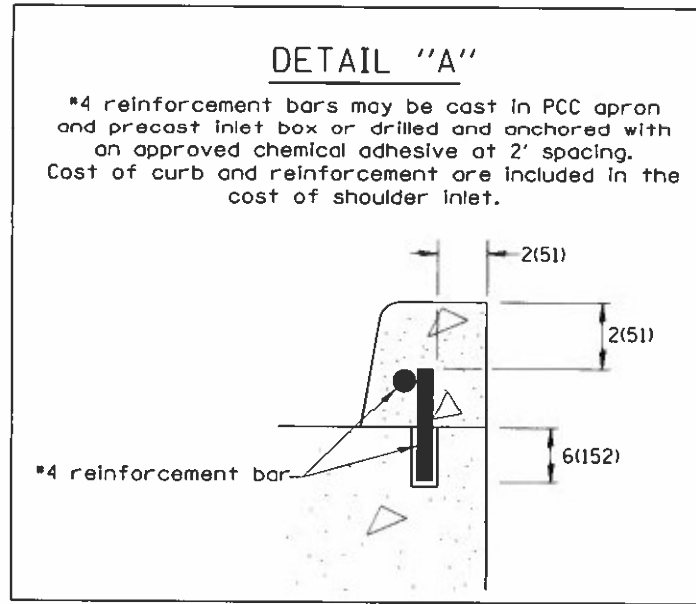
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GUARDRAIL EROSION CONTROL TREATMENTS

NOT TO SCALE

SHT. 1 OF 2
CADD STD. 630101-04

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	1148.27H(BY:BY-1)BDR,BIR,BRR	KNOX	40	37
CONTRACT NO. 68F73				
FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT				



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

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

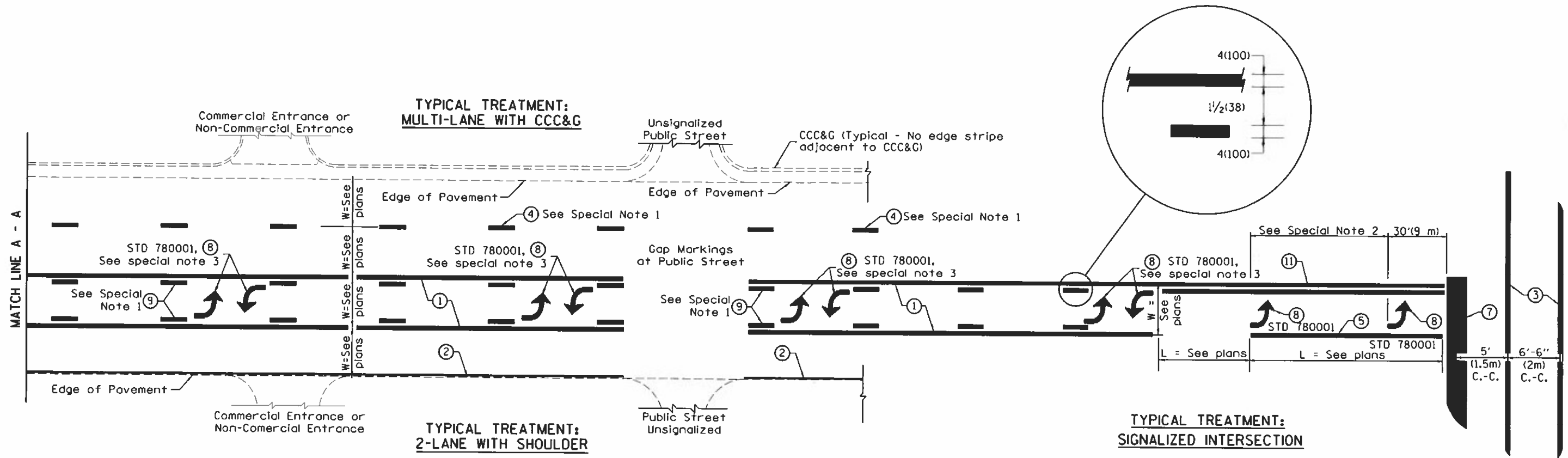
GUARDRAIL EROSION CONTROL TREATMENTS

NOT TO SCALE

SHT. 2 OF 2
CADD STD. 630101-04

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(H48-27HB)BY, BY 11BOR 8/R,BRR	KNOX	40	38
FED. ROAD DIST. NO. ILLINOIS FED. AIG PROJECT			CONTRACT NO. 68F73	

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



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

TYPICAL PAVEMENT MARKING LEGEND

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

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

SPECIAL NOTES

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

GENERAL NOTES

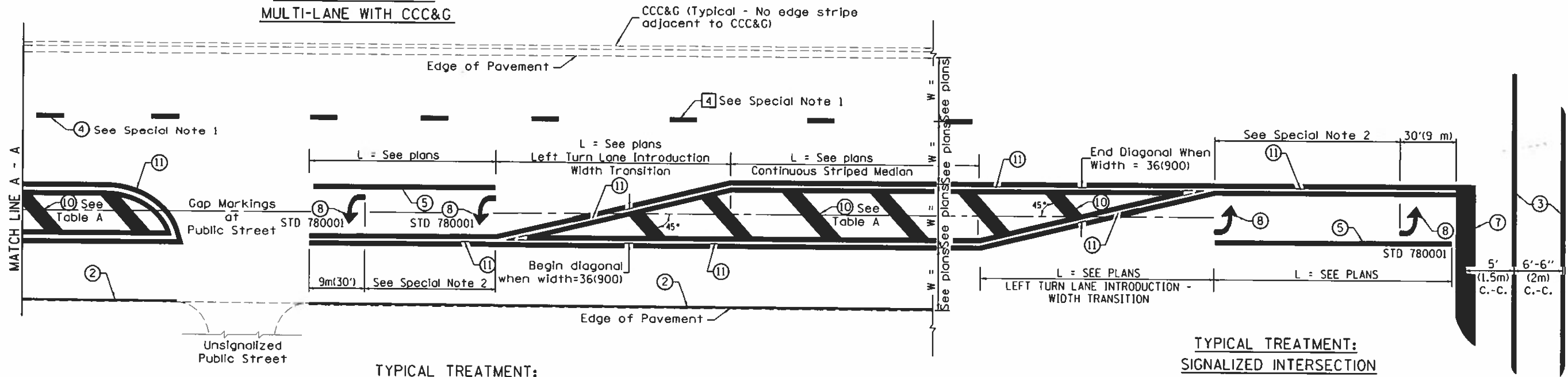
1. Refer to State Standard 780001 for additional Pavement Markings including letters & arrows.
2. See Plans for Pavement Markings adjacent to curbed islands and medians, and through lane reductions.
3. Refer to Article 780.13 for letter, number and symbol areas (sq. ft.)
4. Areas are grooved 1" beyond each edge for the following symbols:
Through Arrow= 14.8 sq. ft.
Large Left or Right Arrow= 21.9 sq. ft.
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.		STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TYPICAL PAVEMENT MARKINGS	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
02-07-97	ADD BI DIRECTIONAL DIMENSION	J.A.	2/29/16	ADDED GROOVING AREAS	R.D.			74	1148-2748(BY: 1)BDR,BIR,BRR	KNOX	40	39	
10-97	CORRECT BI DIRECTIONAL DIMENSION	J.A.	07-16-19	SPELLING CORRECTIONS	R.D.			SHT. 1 OF 2 CADD STD. 780001-04					
08-02	ADD CROSSWALK DIMS. WITH T.S.	M.A.						CONTRACT NO. 68F73					

NOT TO SCALE

FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT

**TYPICAL TREATMENT:
MULTI-LANE WITH CCC&G**



**TYPICAL TREATMENT:
2-LANE WITH SHOULDER**

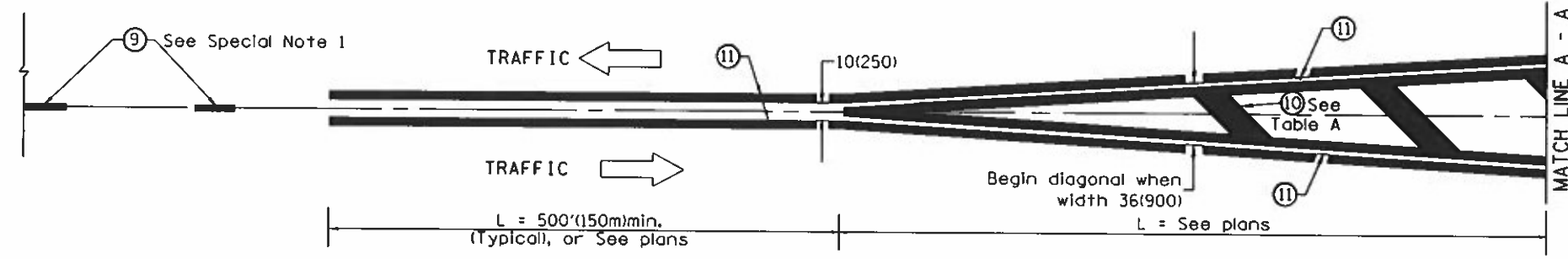
TYPICAL MEDIAN TRANSITIONS

FLUSH PAVED MEDIAN: RESTRICTED LEFT TURN LANE

**TYPICAL TREATMENT:
SIGNALIZED INTERSECTION**

**TABLE A
RECOMMENDED SPACING BETWEEN DIAGONAL LINES**

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



MEDIAN INTRODUCTION - WIDTH TRANSITIONS

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

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TYPICAL PAVEMENT MARKINGS

NOT TO SCALE

SHT. 2 OF 2
CADD STD. 780001-04

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	148 27MB, BY: JDR, BJR, BRR	KNOX	40	40
CONTRACT NO. 68F73			FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT	