09-21-12 LETTING ITEM 032

STATE OF ILLINOIS

DEPARTMENT OF TRANSPORTATION

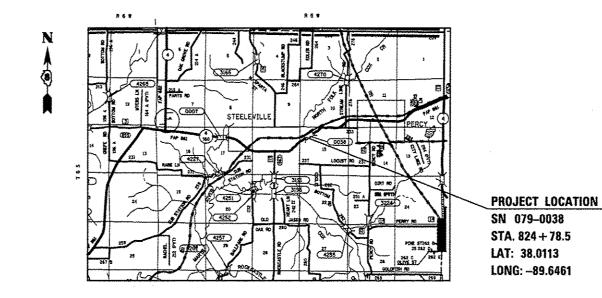
DIVISION OF HIGHWAYS

PROPOSED HIGHWAY PLANS

FAP ROUTE 861(IL 4 /150) SECTION 110-BR

BRIDGE REHABILITATION RANDOLPH COUNTY

C-98-046-12



FOR INDEX OF SHEETS, SEE SHEET NO. 2

ENGINEERING SCALES, REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION 1-800-892-0123

PROJECT ENGINEER: PATTI LeBEAU (618)346-3179 PROJECT MANAGER: REBECCA THARP (618)346-3323

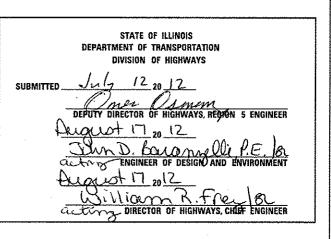
2011 = 5350 (ACTUAL) 2013 = 5500 (ESTIMATED)2033 = 6700 (ESTIMATED)

DESIGN DESIGNATION

GROSS LENGTH = 193 FT. = 0.0366 MILE NET LENGTH = 193 FT. = 0.0366 MILE

D-98-040-12





PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

CONTRACT NO. 76F53

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SU = 3.6% MU = 14.0%

GENERAL NOTES

- 1 ILLINOIS STATE LAW REQUIRES A 48-HOUR NOTICE BE GIVEN TO ALL UTILITIES WITHIN THE PROJECT AREA BEFORE DIGGING. FIELD MARKING OF FACILITIES MAY BE OBTAINED BY CONTACTING JULLIE. OR FOR NON-MEMBERS, THE UTILITY COMPANY DIRECTLY. AGENCIES KNOWN TO HAVE FACILITIES WITHIN THE PROJECT AREA ARE AS FOLLOWS:
 - AMEREN ILLINOIS
 - . EGYPTIAN TELEPHONE COOP. ASSN.
 - FRONTIER NORTH, INC.
 - * NEW WAVE COMMUNICATIONS
 - VILLAGE OF STEELEVILLE

MEMBERS OF J.U.L.I.E. CALL TOLL FREE (800) 892-0123 OR 811 AND ARE INDICATED BY .. NON-J.U.L.I.E. MEMBERS MUST BE NOTIFIED INDIVIDUALLY.

- 2 THE CONTRACTOR AND THE ENGINEER SHALL BE AWARE THAT NO SURVEY WAS PERFORMED FOR THIS PROJECT.
 THE STATIONING AND TOPOGRAPHY SHOWN IN THE PLANS WAS CREATED USING MICROFILM AND FIELD MEASUREMENTS.
 BOTH SHALL BE ASSUMED TO BE APPROXIMATE. THE CONTRACTOR SHALL VERIFY DIMENSIONS AND CONDITIONS IN THE
 FIELD PRIOR TO CONSTRUCTION AND ORDERING OF MATERIALS.
- 3 A QUANTITY OF 1025 FEET OF "TEMPORARY PAVEMENT MARKING LINE 6" WHITE HAS BEEN INCLUDED IN THE PLANS FOR PAINTING THE BOTTOM 6" OF THE TEMPORARY CONCRETE BARRIER.
- 4 THE PROPOSED PAVEMENT MARKING SHALL MATCH THE LOCATIONS OF THE EXISTING PAVEMENT MARKING, AS DIRECTED BY THE ENGINEER.
- 5 ACCESS SHALL BE MAINTAINED TO ALL PROPERTIES UNLESS OTHERWISE NOTED IN THE PLANS.
- 6 ALL TURF AREAS DISTURBED BY THE CONTRACTOR SHALL BE SEEDED WITH THE APPROPRIATE EROSION CONTROL AS DIRECTED BY THE ENGINEER AT THE CONTRACTOR'S EXPENSE.
- 7 THE FOLLOWING MIXTURE REQUIREMENTS ARE APPLICABLE FOR THIS PROJECT.

MIXTURE USE	SURFACE	BINDER/WIDENING	SHOULDERS ≥ 2.25"	SHOULDERS < 2.25"
AC/PG	PG 64-22	PG 64-22	PG 64-22	PG 64-22
RAP % (MAX)	SEE SPEC.	SEE SPEC.	SEE CONTRACT RAP	SEE CONTRACT RAP
DESIGN AIR VOIDS	4.0% @ Ndes=90	4.0% @ Ndes=90	SPECIAL PROVISION	SPECIAL PROVISION
MIX COMPOSITION			••2.0% @ Ndes=30	••2.0% @ Ndes=30
(GRADATION MIXTURE)	IL 12.5/9.5	IL 19.0	NMAS 3/4"	NMAS 1/2"
FRICTION AGG	MIXTURE "D"	MIXTURE "B"		

••TOP LIFT SHOULDERS - DESIGN THIS MIX AT 2.0% VOIDS AND ADD ASPHALT TO REDUCE VOIDS TO 1.5%.

PLAN QUANTITIES FOR BITUMINOUS CONCRETE SURFACE COURSE ITEMS ARE CALCULATED USING A UNIT WEIGHT OF 112 lb/sq yd/ln (59.8kg/sq m/25mm THICKNESS)

INDEX OF SHEETS

- COVER SHEET
- 2 GENERAL NOTES, INDEX OF SHEETS, STANDARDS AND COMMITMENTS
- 3-5 SUMMARY OF QUANTITIES
- 6 SCHEDULES
- 7 TYPICAL SECTIONS
- 8-9 STAGE 1 TRAFFIC CONTROL 10-11 STAGE 2 TRAFFIC CONTROL
- 12-20 BRIDGE PLANS

COMMITMENTS NONE

STANDARDS

000001-06
001001-02
001006
635011-02
701311-03
701326-04
701901-02
704001-07
780001-03

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL NOTES, INDEX OF SHEETS,
STANDARDS AND COMMITMENTS

SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA.

SUMMARY OF QUANTITIES

CODE NO		SUMMARY OF QUANTITIES			 	STRUCTION TYPE CODE
40603345 HOT-MIX ASPHALT SURFACE COURSE, MIX "O". N90 40004250 PAVED SHOULDER REMOVAL 50102400 CONCRETE REMOVAL 50102400 CONCRETE SUPERSTRUCTURE CU YD 13.6 13.6 50300255 CONCRETE SUPERSTRUCTURE CU YD 13.2 13.2 50300300 PROTECTIVE COAT SO YD 32 32 50800205 REINFORCEMENT BARS, EPOXY COATED POUND 1760 1760 50800515 BAR SPLICERS EACH 24 24 52000110 PREFORMED JOINT STRIP SEAL FOOT 92 92 58100200 WATERPROOFING MEMBRANE SYSTEM SO YO 892 892 67100100 MOBILIZATION L SUM 1 1 10000500 TRAFFET C CONTROL PAID PROTECTION L SUM 1 1 1 1 1 1 1 1 1 1 1 1 1	CODE NO		UNIT		0014	
40603345 HOT-MIX ASPHALT SURFACE COURSE, MIX "D". N90 40004250 PAVED SHOULDER REMOVAL 50102400 CONCRETE REMOVAL 50102400 CONCRETE REMOVAL 50300255 CONCRETE SUPERSTRUCTURE CU YD 13.6 13.6 50300255 CONCRETE SUPERSTRUCTURE CU YD 13.2 13.2 50300300 PROTECTIVE COAT SQ YD 32 32 50800205 REINFORCEMENT BARS, EPOXY COATED POUND 1760 1760 50800515 BAR SPLICERS EACH 24 24 52000110 PREFORMED JOINT STRIP SEAL FOOT 92 92 58100200 WATERPROOFING MEMBRANE SYSTEM SQ YD 892 892 67100100 MOBILIZATION L SUM 1 1 1 1 10000500 TRAFFITC CONTROL PAID PROTECTION L SUM 1 1 1 1 1 1 1 1 1 1 1 1 1						
### ### ##############################	35501319	HOT-MIX ASPHALT BASE COURSE, 8 3/4"	SQ YD	163	163	
44004250 PAVED SHOULDER REMOVAL 50 YD 163 163 50102400 CONCRETE REMOVAL CU YD 13.6 13.6 50300255 CONCRETE SUPERSTRUCTURE CU YD 13.2 13.2 50300300 PROTECTIVE COAT SO YD 32 32 50800205 REINFORCEMENT BARS, EPOXY COATED POUND 1760 1760 50800515 BAR SPLICERS EACH 24 24 52000110 PREFORMED JOINT STRIP SEAL FOOT 92 92 58100200 WATERPROOFING MEMBRANE SYSTEM SO YD 892 892 67100100 MOBILIZATION L SUM 1 1 10000500 TRAFFIC CONTROL PAID PROTECTION L SUM 1 1 10000500 TRAFFIC CONTROL PAID PROTECTION L SUM 1 1 1 1 1 1 1 1 1 1 1 1 1	40603345		TON	74.4	74.4	
50300255 CONCRETE SUPERSTRUCTURE CU YD 13.2 13.2 50300300 PROTECTIVE COAT SO YD 32 32 50800205 REINFORCEMENT BARS, EPOXY COATED POUND 1760 1760 50800515 BAR SPLICERS EACH 24 24 52000110 PREFORMED JOINT STRIP SEAL FOOT 92 92 58100200 WATERPROOFING MEMBRANE SYSTEM SO YD 892 892 67100100 MOBILIZATION L SUM 1 1 1 101005500 TEMPORARY BRIDGE TRAFFIC SIGNALS EACH 1 1 1 1 1 1 1 1 1 1 1 1 1	44004250	PAVED SHOULDER REMOVAL	SQ YD	163	163	
50300255 CONCRETE SUPERSTRUCTURE CU YD 13.2 13.2 50300300 PROTECTIVE COAT SO YD 32 32 50800205 REINFORCEMENT BARS, EPOXY COATED POUND 1760 1760 50800515 BAR SPLICERS EACH 24 24 52000110 PREFORMED JOINT STRIP SEAL FOOT 92 92 58100200 WATERPROOFING MEMBRANE SYSTEM SO YD 892 892 67100100 MOBILIZATION L SUM 1 1 1 101005500 TRAFFIC CONTROL PAID PROTECTION TO 106500 TEMPORARY BRIDGE TRAFFIC SIGNALS EACH 1 1 1 1 1 1 1 1 1 1 1 1 1						
50300300 PROTECTIVE COAT	50102400	CONCRETE REMOVAL	CU YD	13.6	13.6	
50800205 REINFORCEMENT BARS, EPOXY COATED POUND 1760 1760 50800515 BAR SPLICERS EACH 24 24 52000110 PREFORMED JOINT STRIP SEAL FOOT 92 92 58100200 WATERPROOFING MEMBRANE SYSTEM SQ YD 892 892 67100100 MOBILIZATION L SUM 1 1 10100500 TRAFFIC CONTROL AND PROTECTION STANDARD 7013212 70106500 TEMPORARY BRIDGE TRAFFIC SIGNALS EACH 1 1	50300255	CONCRETE SUPERSTRUCTURE	CU YD	13.2	13.2	
50800515 BAR SPLICERS EACH 24 24 52000110 PREFORMED JOINT STRIP SEAL FOOT 92 92 58100200 WATERPROOFING MEMBRANE SYSTEM SQ YD 892 892 67100100 MOBILIZATION L SUM 1 1 10100500 TRAFFIC CONTROL AND PROTECTION L SUM 1 70106500 TEMPORARY BRIDGE TRAFFIC SIGNALS EACH 1 1	50300300	PROTECTIVE COAT	SO YD	32	32	
50800515 BAR SPLICERS EACH 24 24 52000110 PREFORMED JOINT STRIP SEAL FOOT 92 92 58100200 WATERPROOFING MEMBRANE SYSTEM SQ YD 892 892 67100100 MOBILIZATION L SUM 1 1 10100500 TRAFFIC CONTROL AND PROTECTION L SUM 1 70106500 TEMPORARY BRIDGE TRAFFIC SIGNALS EACH 1 1						
52000110 PREFORMED JOINT STRIP SEAL FOOT 92 92 58100200 WATERPROOFING MEMBRANE SYSTEM SQ YD 892 892 67100100 MOBILIZATION L SUM 1 1 70100500 TRAFFIC CONTROL AND PROTECTION L SUM 1 1 70106500 TEMPORARY BRIDGE TRAFFIC SIGNALS EACH 1 1	50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	1760	1760	
58100200 WATERPROOFING MEMBRANE SYSTEM SO YD 892 892 67100100 MOBILIZATION L SUM 1 1 1 10100500 TRAFFIC CONTROL AND PROTECTION STANDARD TOISZA 70106500 TEMPORARY BRIDGE TRAFFIC SIGNALS EACH 1 1	50800515	BAR SPLICERS	EACH	24	24	
67100100 MOBILIZATION L SUM 1 1 1 10100500 TRAFFIC CONTROL AND PROTECTION STANDARD TOISS. 70106500 TEMPORARY BRIDGE TRAFFIC SIGNALS EACH 1 1	52000110	PREFORMED JOINT STRIP SEAL	FOOT	92	92	
10100500 TRAFFIC CONTROL AND PROTECTION L SUM 1 1 T0106500 TEMPORARY BRIDGE TRAFFIC SIGNALS EACH 1 1	58100200	WATERPROOFING MEMBRANE SYSTEM	SQ YD	892	892	
10100500 TRAFFIC CONTROL AND PROTECTION L SUM 1 1 T0106500 TEMPORARY BRIDGE TRAFFIC SIGNALS EACH 1 1						
70106500 TEMPORARY BRIDGE TRAFFIC SIGNALS EACH 1 1				1		
	10100500	TRAFFIC CONTROL AND PROTECTION STANDARD 701326	LSWM	1	1	
70106700 TEMPORARY RUMBLE STRIPS EACH 6 6	70106500	TEMPORARY BRIDGE TRAFFIC SIGNALS	EACH	1	1	
······································	70106700	TEMPORARY RUMBLE STRIPS	EACH	6	6	

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES									SECTION	COUNTY TOTAL SHEETS		SHEET NO.
							86		110-BR	RANDOLPH	20	3
				·····						CONTRACT	NO.	76F53
LE: NONE	SHEET I)F 3	SHEETS	STA.	TO STA.			ILLINOIS FEO. A	O PROJECT		

SUMMARY OF QUANTITIES

	SUMMARY OF QUANTITIES	· ·		0014	TRUCTION TYPE CODE
CODE NO	ITEM	UNIT	TOTAL QUANTITIES	100% STATE	
70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	1740	1740	
70300240	TEMPORARY PAVEMENT MARKING - LINE 6"	FOOT	1025	1025	
70300280	TEMPORARY PAVEMENT MARKING - LINE 24"	FOOT	25	25	
70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SQ FT	630	630	
70400100	TEMPORARY CONCRETE BARRIER	FOOT	437.5	437.5	
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	412.5	412.5	
78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	1740	1740	
78100105	RAISED REFLECTIVE PAVEMENT MARKER (BRIDGE)	EACH	3	3	
78300100	PAVEMENT MARKING REMOVAL	SQ FT	568	568	
X5060601	CONTAINMENT AND DISPOSAL OF NON-LEAD PAINT CLEANING RESIDUES NO. 1	L SUM	1	1	
X7010202	TRAFFIC CONTROL AND PROTECTION. STANDARD 701321 (SPECIAL)	EACH	1	1	
Z0004556	HOT-MIX ASPHALT SURFACE REMOVAL (DECK)	SQ YD	877	877	

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STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

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											861	110-		RANDOLPH	20	4
					·····									CONTRACT	NO.	76F53
SCALE: NONE	SHEET	2	OF	3	SHEETS	STA.		TO	STA.				ILLINOIS FED. AL			

SUMMARY OF QUANTITIES

	SUMMARY OF QUANTITIES				RUCTION TYPE CO	<i></i>
	· · · · · · · · · · · · · · · · · · ·	T	TOTAL	0014	+ + + + + + + + + + + + + + + + + + +	
CODE NO	ITEM	UNIT	QUANTITIES	100% STATE		
Z0010501	CLEANING AND PAINTING STEEL BRIDGE NO.	L SUM	1	1		
	1		-			
Z0030250	IMPACT ATTENUATORS, TEMPORARY (NON-	EACH	1	1	######################################	
	REDIRECTIVE), TEST LEVEL 3					
Z0030251	IMPACT ATTENUATORS, TEMPORARY (NON-	EACH	1	1		····
	REDIRECTIVE, NARROW), TEST LEVEL 3				and the state of t	
20030350	IMPACT ATTENUATORS, RELOCATE (NON-	EACH	1		TT AND THE STATE OF THE STATE O	
	REDIRECTIVE), TEST LEVEL 3	<u> </u>				
Z0030352	IMPACT ATTENUATORS, RELOCATE (NON-	EACH	1	1		
	REDIRECTIVE, NARROW), TEST LEVEL 3					
				, in the state of		
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DEPARTMENT	OF	TRANSPORTATION	

		SI	JMM	ARY	OF QU	ANTITIE	s				F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
										1	861	110-BR	RANDOLPH	20	5
														NO.	76F53
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							PAVEMENT	MARKING SCH	HEDULE				
					THERMOI	PLASTIC PAVEME	NT MARKING		TEMPORARY PA	VEMENT MARKIN	G	WORK ZONE	RAISED
					EDGE LINE	CENTERLINE	CENTERLINE	EDGE LINE	CENTERLINE	CENTERLINE	STOP BAR	PAVEMENT	REFLECTIVE
					SOLID	SKIP-DASH	SOLID	SOLID	SKIP-DASH	SOLID	SOLID	MARKING	PAVEMENT
					4" WHITE	4" YELLOW	4" YELLOW	4" WHITE	4" YELLOW	4" YELLOW	24" WHITE	REMOVAL	MARKER (BRIDGE)
					FOOT	FOOT	FOOT	FOOT	FOOT	F00T	FOOT	SQ FT	EACH
STA.	821+50.40	ТО	STA	827+13.75	1126.7	140.8		1126.70	140.84			422.5	
STA.	822+41.00	ТО	STA	827+13.75			472.8			472.75		157.6	
STA.	823+82.00	TO	STA	825+75.00									3
			STA	820+62							12	24	
			STA	828+47							13	26	
				SUB-TOTAL	1126.7	140.8	472.8	1126.7	140.8	472.8	25	630.1	3
			G	RAND TOTAL		1,740			1,740		25	630	3

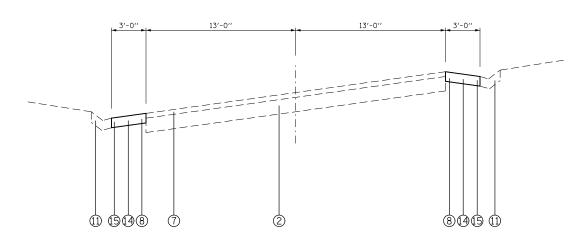
			PAVING S	SCHEDULE	
				HOT-MIX	PAVED
				ASPHALT	SHOULDER
	STATI	ON		BASE COURSE 8¾"	REMOVAL
	STAGE	. 1		SQ YD	SQ YD
WB	822+70.00	TO	823+67.00	43.11	43.11
EB	825+90.00	TO	827+13.75	41.25	41.25
	STAGE	2			
WB	822+82.50	TO	823+67.00	37 . 56	37.56
EB	825+90.00	TO	827+13.75	41.25	41.25
			TOTAL	163	163

				STAGING SCHEDULE				
		RELOCATE	IMPACT ATTENUATORS	IMPACT ATTENUATORS	IMPACT ATTENUATORS	IMPACT ATTENUATORS		
	TEMPORARY	TEMPORARY	TEMPORARY	RELOCATE	TEMPORARY	RELOCATE	TEMPORARY	
	CONCRETE	CONCRETE	(NON-REDIRECTIVE, NARROW),	(NON-REDIRECTIVE, NARROW),	(NON-REDIRECTIVE),	(NON-REDIRECTIVE),	RUMBLE	TEMPORARY BRIDGE
STAGE	BARRIER	BARRIER	TEST LEVEL 3	TEST LEVEL 3	TEST LEVEL 3	TEST LEVEL 3	STRIP	TRAFFIC SIGNALS
	FOOT	FOOT	EACH	EACH	EACH	EACH	EACH	EACH
STAGE I	437.5		1		1			
STAGE II		412.5		1		1		
STAGE I & II							6	1
TOTAL	437.5	412.5	1	1	1	1	6	1

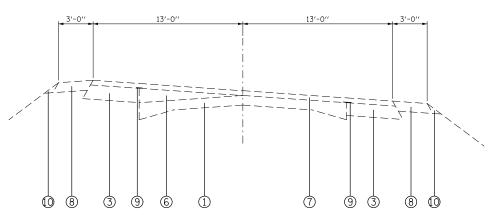
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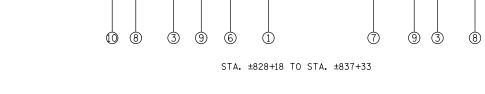
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I					SCI	HEDULES	s		F.A.P RTE.	SECTION		COUNTY	TOTAL SHEETS	SHEET NO.
I									861	110-BR		RANDOLPH	20	6
l												CONTRACT	NO.	76F53
I	SCALE: NONE	SHEET	1	0F	1	SHEETS	STA.	TO STA.		ILLINOIS FE	ED. AIC	PROJECT		

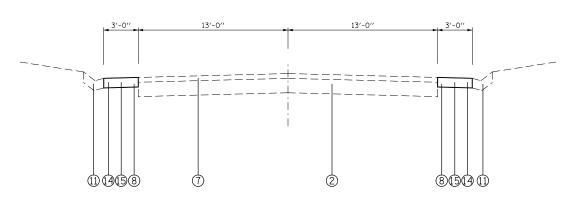


STA. ±826+82 TO STA. ±828+18 (SHOULDER WORK STA. ±826+82 TO STA, ±827+13.75)

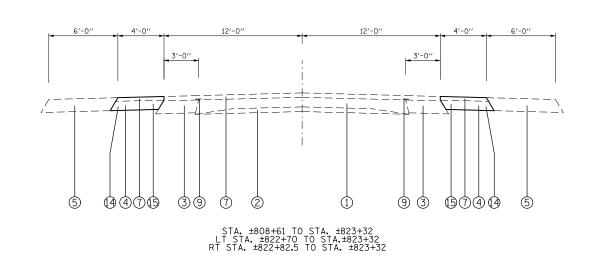




- 1 EXISTING 18" (9'-6'-9') PAVEMENT WITH $\frac{1}{2}$ "* DEFORMED BARS & $\frac{3}{4}$ " * SMOOTH BARS
- 2 EXISTING BITUMINOUS BASE COURSE 9"
- 3 EXISTING BASE COURSE WIDENING 4 EXISTING BITUMINOUS SHOULDERS 8"
- 5 EXISTING AGGREGATE SHOULDERS 8"
- 6 EXISTING LEVELING BINDER (MM) MIX C, TYPE 2 (3/4" AND VARIES)
- 7 EXISTING BITUMINOUS CONCRETE SURFACE COURSE, MIX D, CLASS I TYPE 2 11/2"
- 8 EXISTING BITUMINOUS SHOULDERS 6"
- 9 EXISTING STRIP REFLECTIVE CRACK CONTROL TREATMENT
- 10 EXISTING AGGREGATE SHOULDERS, TYPE B
- 11 EXISTING TYPE B GUTTER
- 12 EXISTING SUB-BASE 4"
- 13 EXISTING CONCRETE PAVEMENT 141/2"
- 14 PROPOSED PAVED SHOULDER REMOVAL
- 15 PROPOSED HOT-MIX ASPHALT BASE COURSE, 83/4"



STA. ±826+25 TO STA. ±826+82



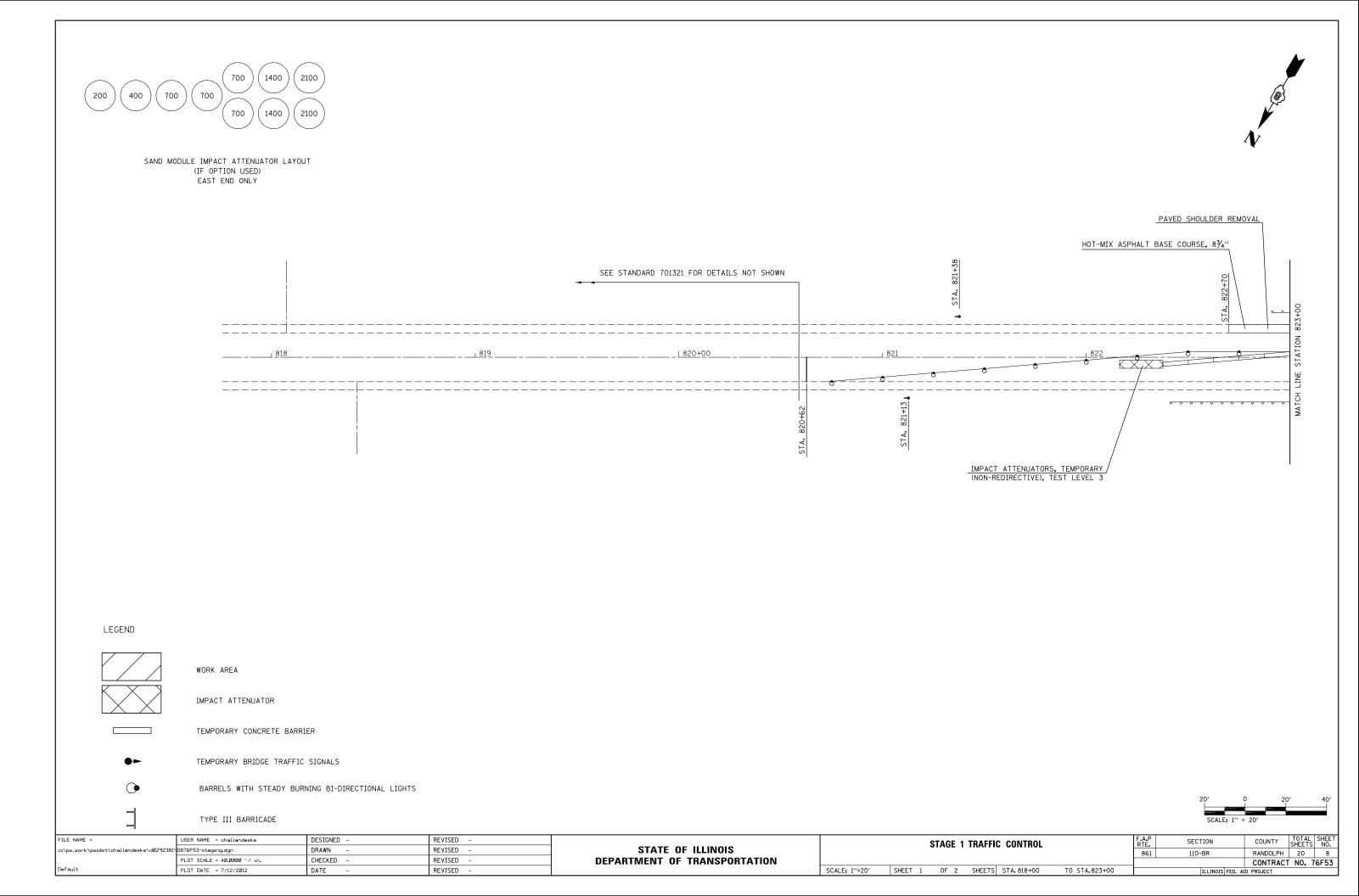
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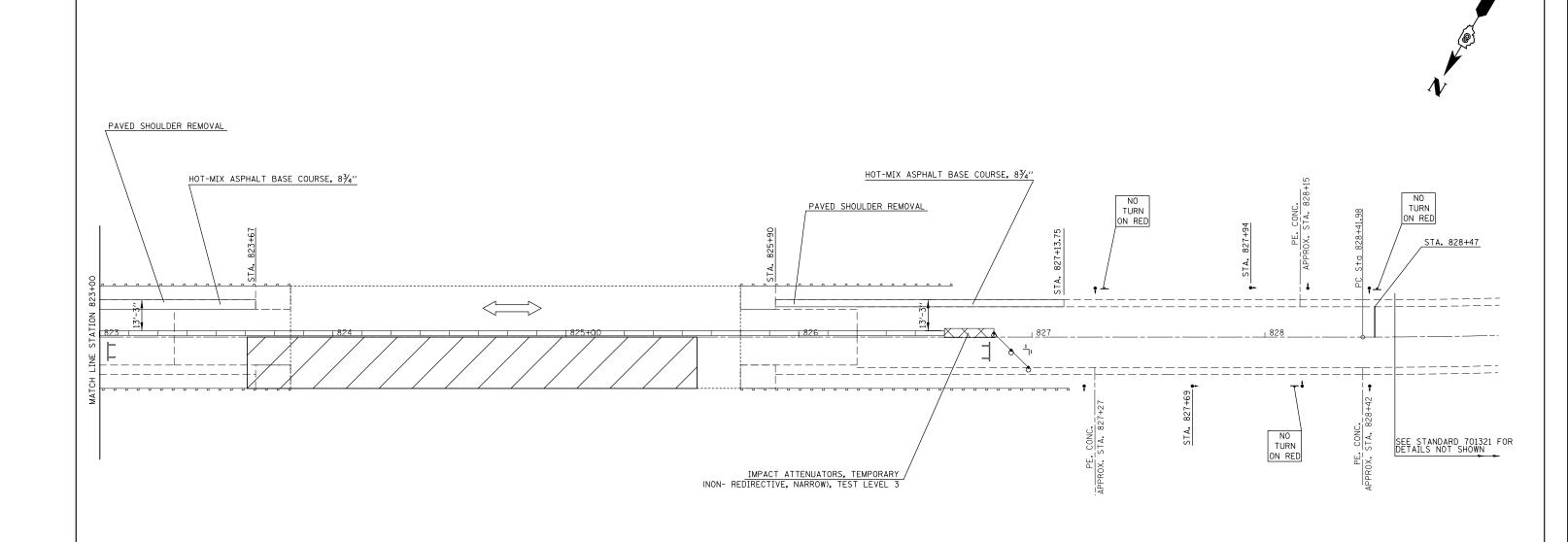
*STA. ±825+75 TO STA. ±826+25 HAS 3' SHOULDERS

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STATE OF	ILLINOIS
DEPARTMENT OF	TRANSPORTATION

			ТҮРІ	CAL SEC	CTIONS		F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
							861	110-BR	RANDOLPH	20	7
									CONTRACT	NO.	76F53
SCALE: NONE	SHEET 1	OF	1	SHEETS	STA.	TO STA.		ILLINOIS FED. A	ID PROJECT		

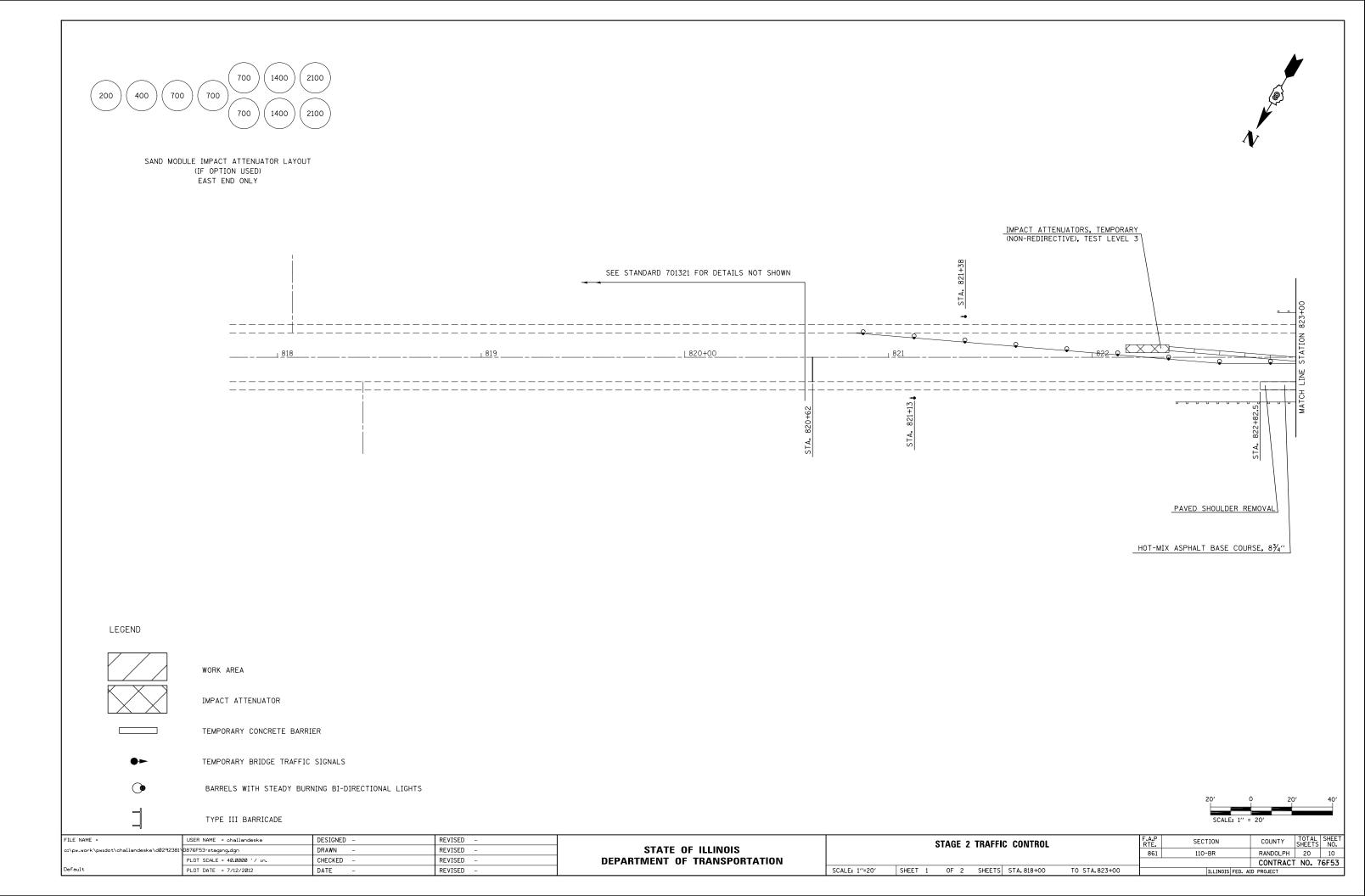




SEQUENCE OF CONSTRUCTION - STAGE 1
REMOVE SHOULDERS AS SHOWN ON PLANS FOR PAVED SHOULDER REMOVAL.
PLACE HOT-MIX ASPHALT BASE COURSE, 8¾" AS SPECIFIED IN THE PLANS.
PLACE STOP BARS AS SHOWN ON PLANS.
REMOVE SKIP-DASH PAVEMENT MARKING BETWEEN STOP BARS
PLACE 437.5 FEET TEMPORARY CONCRETE BARRIER AND PLACE IMPACT ATTENUATORS, TEMPORARY.
PREFORM ALL WORK NECESSARY FOR STAGE I CONSTRUCTION.

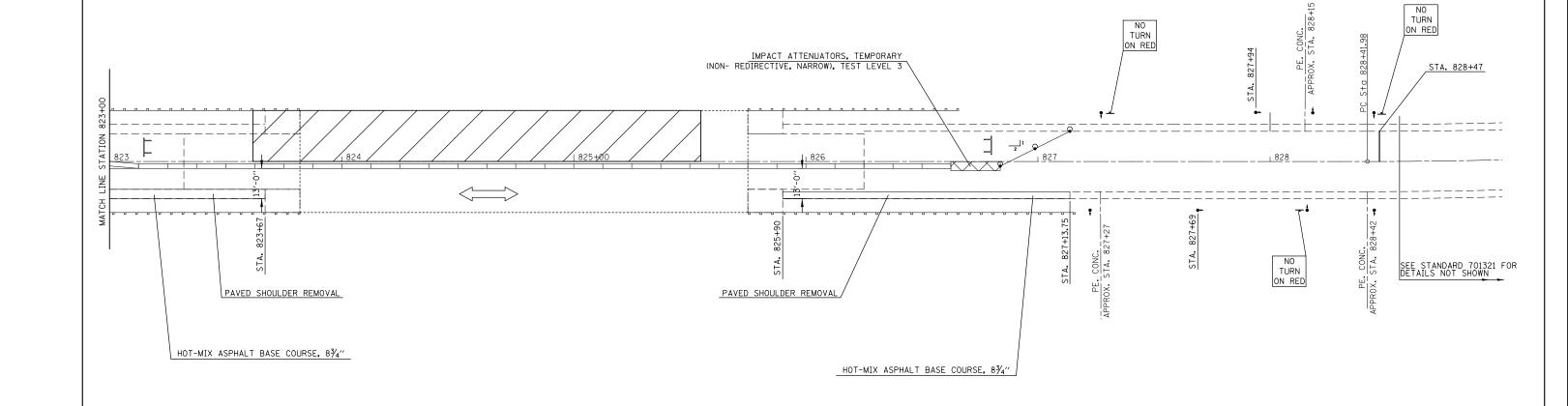


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	PLOT SCALE = 40.0000 ' / in.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION				CONTRACT NO. 76F53
Default	PLOT DATE = 7/12/2012	DATE -	REVISED -		SCALE: 1"=20' SHEET 2 OF 2 SHEETS STA. 823+00 TO STA. 829+00		ILLINOIS FED.	



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SEQUENCE OF CONSTRUCTION STAGE II
REMOVE SHOULDERS AS SHOWN ON PLANS FOR PAVED SHOULDER REMOVAL.
PLACE HOT-MIX ASPHALT BASE COURSE, 8¾" AS SPECIFIED IN THE PLANS.
RELOCATE 412.5 FEET OF TEMPORARY CONCRETE BARRIER AND PLACE IMPACT ATTENUATORS, TEMPORARY.
PERFORM ALL WORK NECESSARY FOR STAGE II CONSTRUCTION.

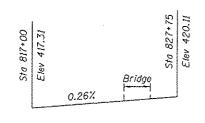




El 419.09--El 419.59 ELEVATION 🖁 Roadway Bk. E. Abut -Bk. W Abut Sta 823+82.00 Sta 825+75.00 Elev. 419.09 El 419.59 € Pier #3 -@ Pler #2 7. -€ Pier #1 Sta 825+29.75 Sta 824+78.50 Stg 824+27.25 r€ Brg. El 419.48 EI 419.34 Elev 419.21 43'-0" 51'-3" 51'-3" 43'-0" 2'-3" 2'-3" 193'-0" Back to Back of Abutments

PLAN

Remove Preformed Joint Sealer and Install Preformed Joint Strip Seal







INDEX OF SHEETS

- I. General Plan & Elevation
- 2. Deck Cross Section
- 3. Joint Details
- 4. Wingwall & Railpost Details
- 5. Strip Seal Details
- 6. Bar Splicer Base Sheet
- 7. For Information Only (F.I.O.) Existing Steel Details
- 8. F.I.O. Existing Framing Plans

LOCATION SKETCH

GENERAL NOTES

Reinforcement bars designated (E) shall be epoxy coated.

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.

Existing reinforcement bars extending into 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.

The deck surface shall have its final finish surface tined according to Article 420.09(e)1 of the Standard Specifications. Cost included with "Concrete Superstructure".

Cleaning and Painting of the existing structural steel and bearings shall be as specified in the Special Provision for "Cleaning and Painting Existing Steel Surfaces". All beams, bearings, deck drains and other structural steel within 5 feet (measured along the beam) of either side of the deck joints shall be cleaned per Near White Blast Cleaning-SSPC-SP10.

The designated areas cleaned per near white blast cleaning SSPC-SPIO shall be painted according to the requirements of paint system 1- OZ/E/U. The color of the final finish coat for all cleaned surfaces shall match the existing steel.

Containment of cleaning residue is required to control nuisance dust. See special provisions.

The existing coating does not contain lead. By specification, a Class 2A containment is required to contain nuisance dust from escaping into the environment.

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.

Protective coat shall be placed on top/inside faces of parapets/wingwalls and on top of new concrete at joints.

TOTAL BILL OF MATERIAL

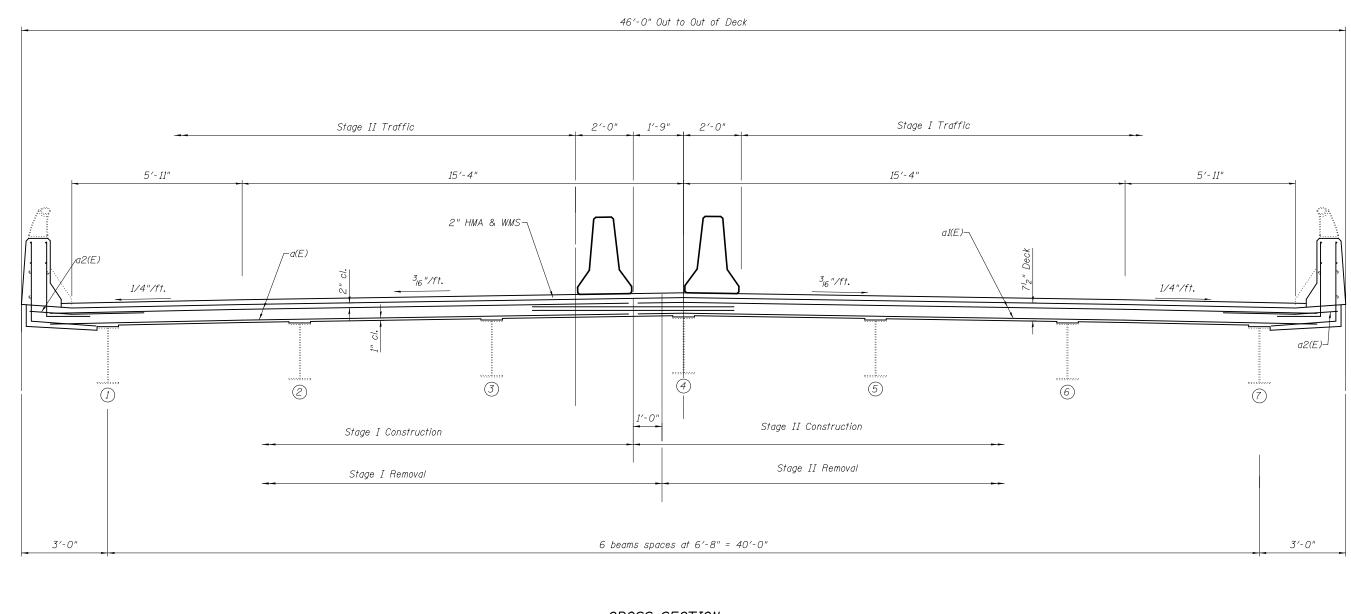
ITEM	UNIT	TOTAL
Concrete Removal	Cu. Yd.	13.6
Concrete Superstructure	Cu. Yd.	13.2
Hot-Mix Asphalt Surface Removal (Deck)	Sq. Yd.	877
Reinforcement Bars, Epoxy Coated	Pound	1760
Bar Splicers	Each	24
Preformed Joint Strip Seal	Foot	92
Waterproofing Membrane System	Sq. Yd.	892
HMA Surface Course, Mix "D" N90	Ton	74.4
Protective Coat	Sq. Yd.	32
Containment and Disposal of Non-Lead Paint Cleaning Residues No. 1	L. Sum	1
Cleaning and Painting Steel Bridge No. 1	L. Sum	1
No. I		

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL PLAN & ELEVATION
079-0038
SHEET NO. 1 OF 9 SHEETS

_	IL	SECTION	COUNTY	TOTAL	SHE
	4/150	110-8R	Randolph	2.0	NO 12
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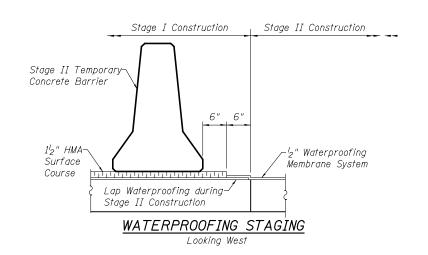


CROSS SECTION

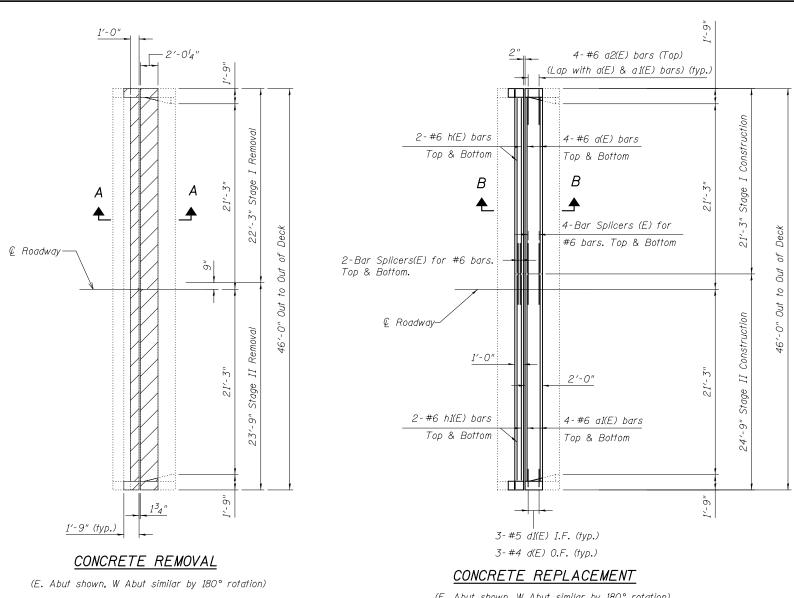
(Looking West)

<u>NOTES</u>

The existing 2" HMA & WMS shall be removed and replaced in-kind.



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2'-6"

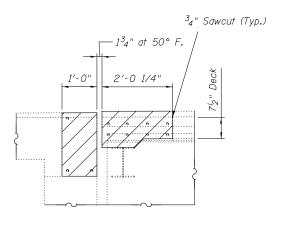
BAR a2(E)

1'-6"

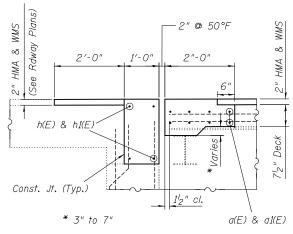
BAR d1(E)

BAR d(E)

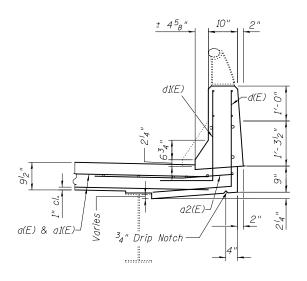
(E. Abut shown, W Abut similar by 180° rotation)



SECTION A-A



SECTION B-B



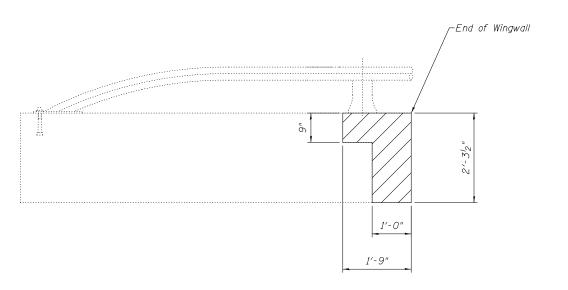
PARAPET SECTION

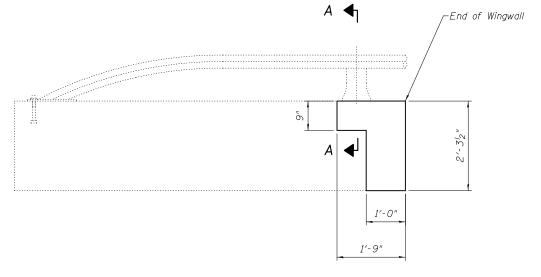
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a(E)	<i>1</i> 6	#6	20'-1"	
a1(E)	16	#6	23'-7"	
a2(E)	16	#6	4'-0"	
d(E)	12	#4	5′-0"	
d1(E)	12	#5	4'-1"	
h(E)	8	#6	19′-11"	
h1E)	8	#6	23'-5"	
Concrete	Concrete Removal			13.6
Concrete	Superstru	ıcture	Cu. Yd.	13.2
Reinforcement Bars, Epoxy Coated			Lbs.	1760

Reinforcement bars designated (E) shall be epoxy coated.

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WINGWALL ELEVATION (CONCRETE REMOVAL)

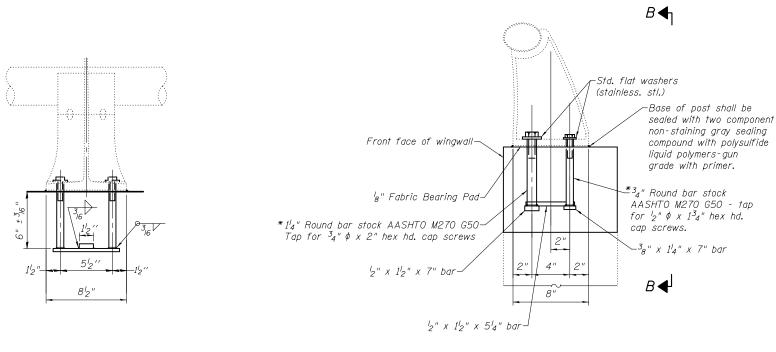






WINGWALL PLAN (CONCRETE REMOVAL)

<u>WINGWALL PLAN (CONCRETE SUPERSTRUCTURE)</u>



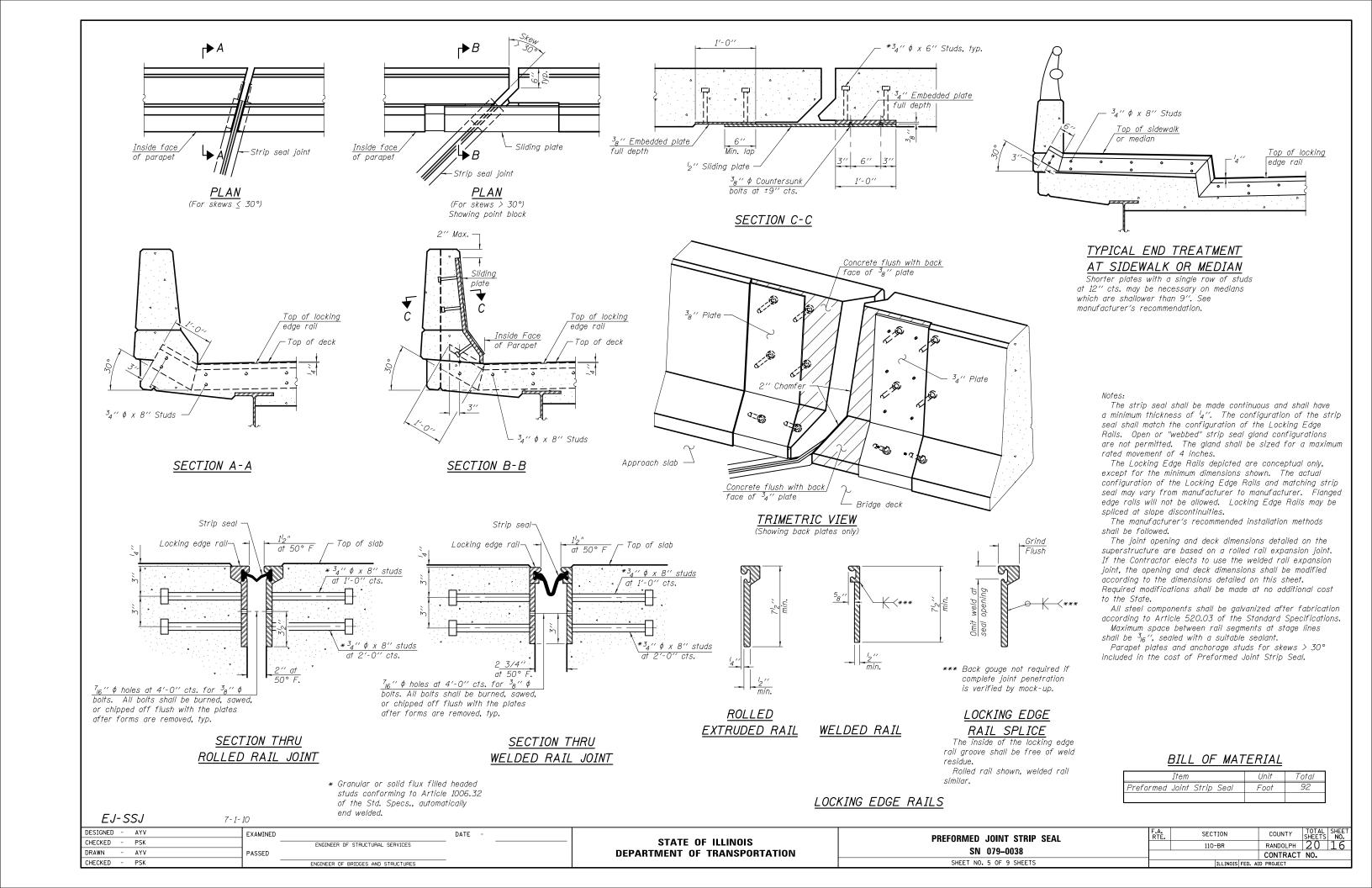
*In lieu of the cast-in-place anchor device shown, the Contractor has the option of drilling and setting stainless steel anchor rods of the same diameter and grade as the specified cap screws according to Article 509.06 of the Standard Specifications. Embedment shall be according to the manufacturer's specifications. Cost of providing anchorages is included with Concrete Superstructure.

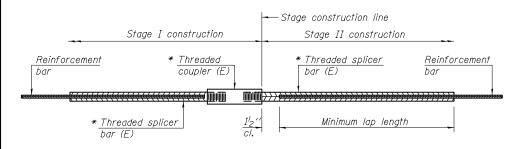
VIEW B-B

SECTION A-A

RAIL POST DETAILS

DESIGNED - AYV	EXAMINED DATE -		WINGWALL & RAILPOST DETAILS	IL SECTION COUNTY SHEET	AL SHEET
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STANDARD BAR SPLICER ASSEMBLY

Minimum Lap Lengths							
Bar size to be spliced	Table 1	Table 2	Table 3	Table 4	Table 5		
3, 4	1'-5''	1'-11''	2'-1''	2'-4''	2'-3"		
5	1'-9''	2'-5"	2'-7''	2'-11''	2'-10''		
6	2'-1''	2'-11''	3'-1''	3′-6′′	3'-4''		
7	2'-9''	3'-10''	4'-2''	4'-8''	4'-6''		
8	3′-8′′	5′-1′′	5′-5′′	6'-2"	5′-10′′		
9	4'-7''	6′-5′′	6'-10''	7'-9''	7′-5′′		

Table 1: Black bar, 0.8 Class C

Table 2: Black bar, Top bar lap, 0.8 Class C

Table 3: Epoxy bar, 0.8 Class C

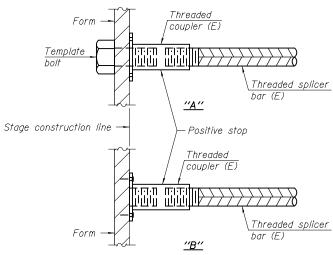
Table 4: Epoxy bar, Top bar lap, 0.8 Class C

Table 5: Epoxy bar, Top bar lap, Class B

Threaded splicer bar length = min. lap length + 1_2^{l} " + thread length

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

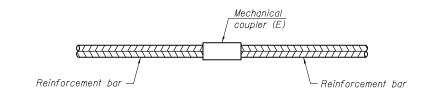
Location	Bar size	No. assemblies required	Table for minimum lap length
End of Deck	#6	16	3
Hatch Block	#6	8	4
	-		



INSTALLATION AND SETTING METHODS

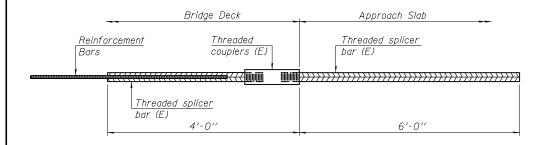
"A": Set bar splicer assembly by means of a template bolt.
"B": Set bar splicer assembly by nailing to wood forms or cementing to steel forms.

(E) : Indicates epoxy coating.



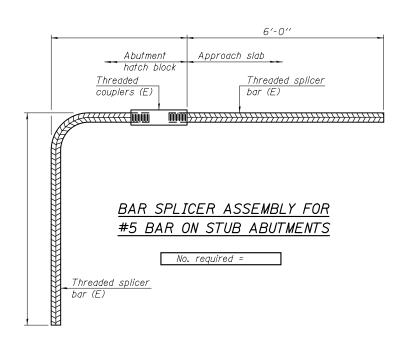
STANDARD MECHANICAL SPLICER

Location	Bar size	No. assemblies required



BAR SPLICER ASSEMBLY FOR #5 BAR ON INTEGRAL OR SEMI-INTEGRAL ABUTMENTS

No, 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 special provision for Mechanical Splicers.

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

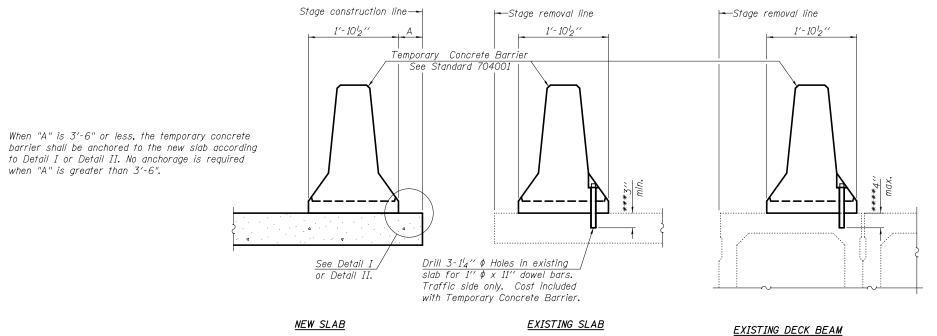
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BAR SPLICER ASSEMBLY AND MECHANICAL SPLICER DETAILS
STRUCTURE NO.
SHEET NO. 6 OF 9 SHEETS



NOTES

Detail I - With Bar Splicer or Couplers: Connect one (1) 1" x 7' 'x "W" steel P to the top layer of couplers with $2^{-5}8'' \phi$ bolts screwed to coupler at approximate ℓ of each barrier panel.

Detail II - With Extended Reinforcement Bars:

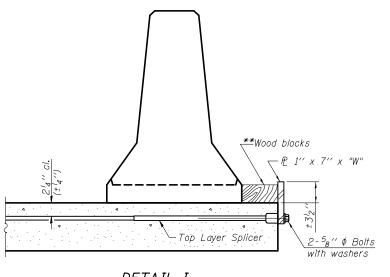
Connect one (l) 1" x 7" x "W" steel P to the concrete slab or concrete wearing surface with 2-58" \$\phi\$ Expansion Anchors or cast in place inserts spaced between the top layer of reinforcement at approximate € of each barrier panel.

Cost of anchorage is included with Temporary Concrete Barrier. The 1" x 7" x "W" plate shall not be removed until stage II construction forms and all reinforcement bars are in place and the concrete is ready to be placed.

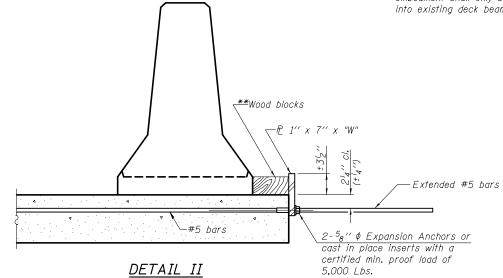
SECTIONS THRU SLAB OR DECK BEAM

*** Dimension shown is minimum required embedment into concrete. If hot-mix asphalt wearing surface is present, minimum embedment shall be in addition to wearing surface depth.

**** If existing deck beam is to remain in place after stage construction, embedment shall only be into wearing surface and not into existing deck beam concrete.

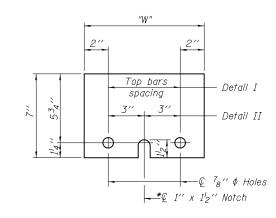


DETAIL I



** Wood blocks may be omitted when required to provide minimum stage traffic lane width. When the wood blocks are omitted, the concrete barrier shall be in direct contact with the steel retainer plate.

"W" = Top bars spacing + 4"



STEEL RETAINER P 1" x 7" x "W"

* Required only with Detail II

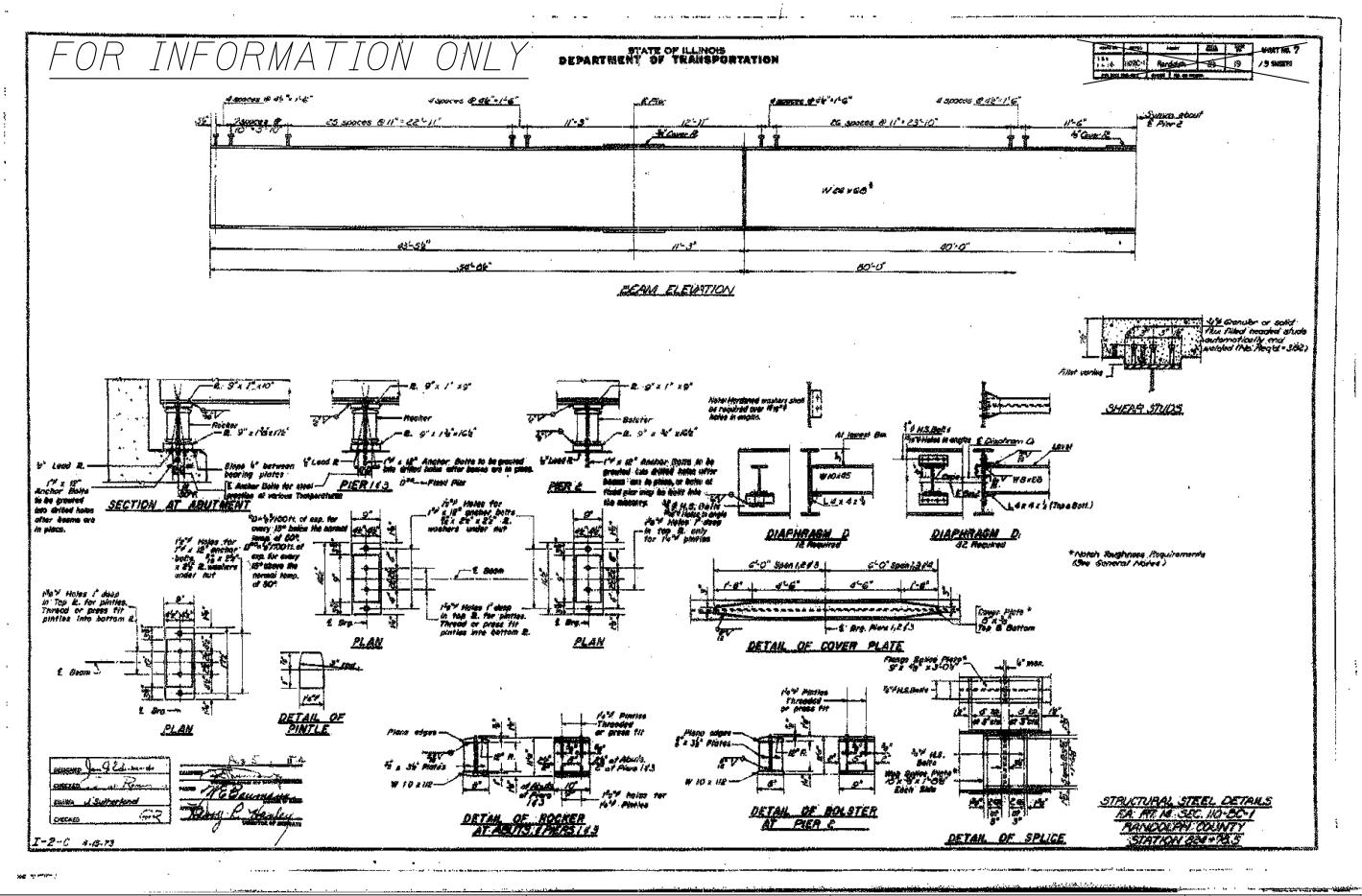
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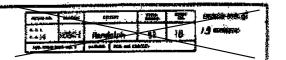
TEMPORARY CONCRETE BARRIER FOR STAGE CONSTRUCTION STRUCTURE NO. 079–0038	
SHEET NO. 7 OF 9 SHEETS	

IL RTE.	SECTION		COUNTY	TOTAL SHEETS	SH N
4/150	110-BR		RANDOLPH	20	1
			CONTRACT	NO. 7	6F
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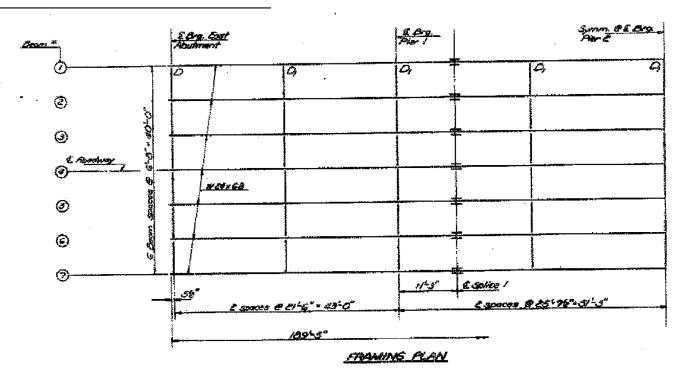


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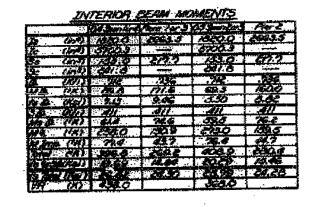
STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

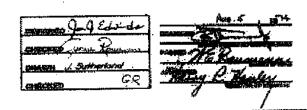


FOR INFORMATION ONLY



*Elevation at the of beam florige before any deflection.





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DATE ENGINEER OF STRUCTURAL SERVICES REVISED

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION** FOR INFORMATION ONLY - EXISTING FRAMING PLANS SN 079-0038 SHEET NO. 9 OF 9 SHEETS

IL RTE.	SECTION		COUNTY	TOTAL SHEETS	SHEET NO.
4/150 110-BR			RANDOLPH	20	20
			CONTRACT	NO. 7	6F53
	ILLINOIS FED.	AII	PROJECT		