

# PROPOSED HIGHWAY PLANS

FAP ROUTE 318 (IL 6)  
SECTION 72(6-1)SR-1  
TYPE of IMPROVEMENT: CONTRACT MAINTENANCE  
PEORIA COUNTY

F.A.P. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
318	72(6-1)SR-1	PEORIA	15	1
ILLINOIS			CONTRACT NO. 68F62	

INDEX OF SHEETS

- 1 COVER SHEET
- 2-3 GENERAL NOTES /COMMITMENTS /PROJECT SPECIFIC NOTES
- 4 SUMMARY OF QUANTITIES
- 5-6 TYPICAL SECTIONS
- 7-8 SCHEDULE OF QUANTITIES
- 9-11 LINE DIAGRAM
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HIGHWAY STANDARDS:

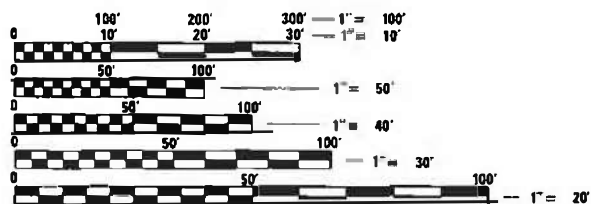
- 701101-05
- 701400-09
- 701406-12
- 701411-09
- 701901-08

DISTRICT STANDARDS:

- 406101
- 440001

IL 6: **FREWAY**  
ADT=13,300 (2015)  
SU=3.57% (2015)  
MU=3.38% (2015)

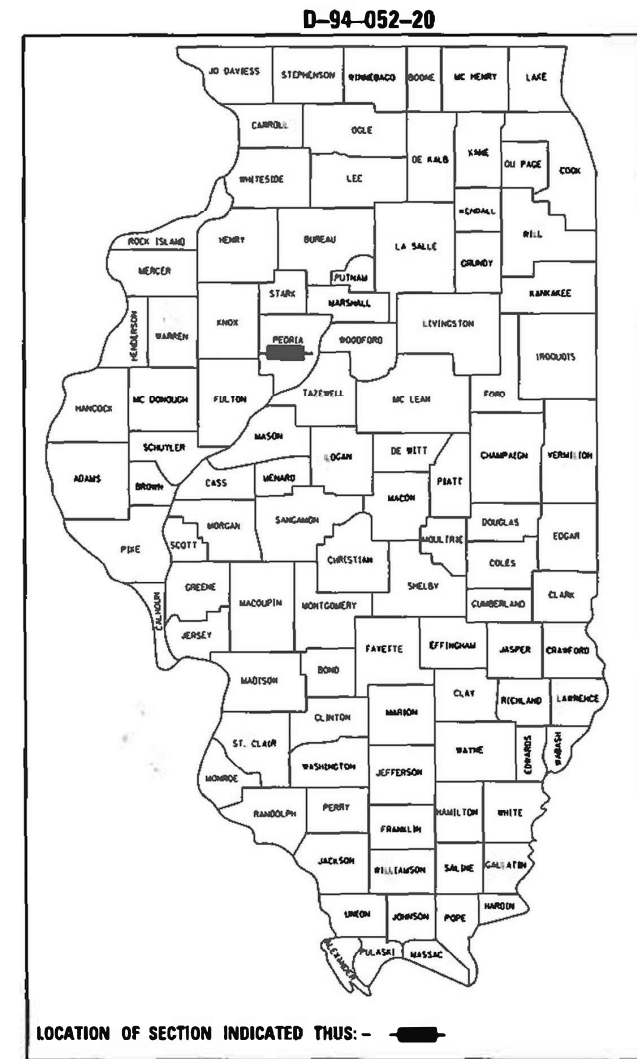
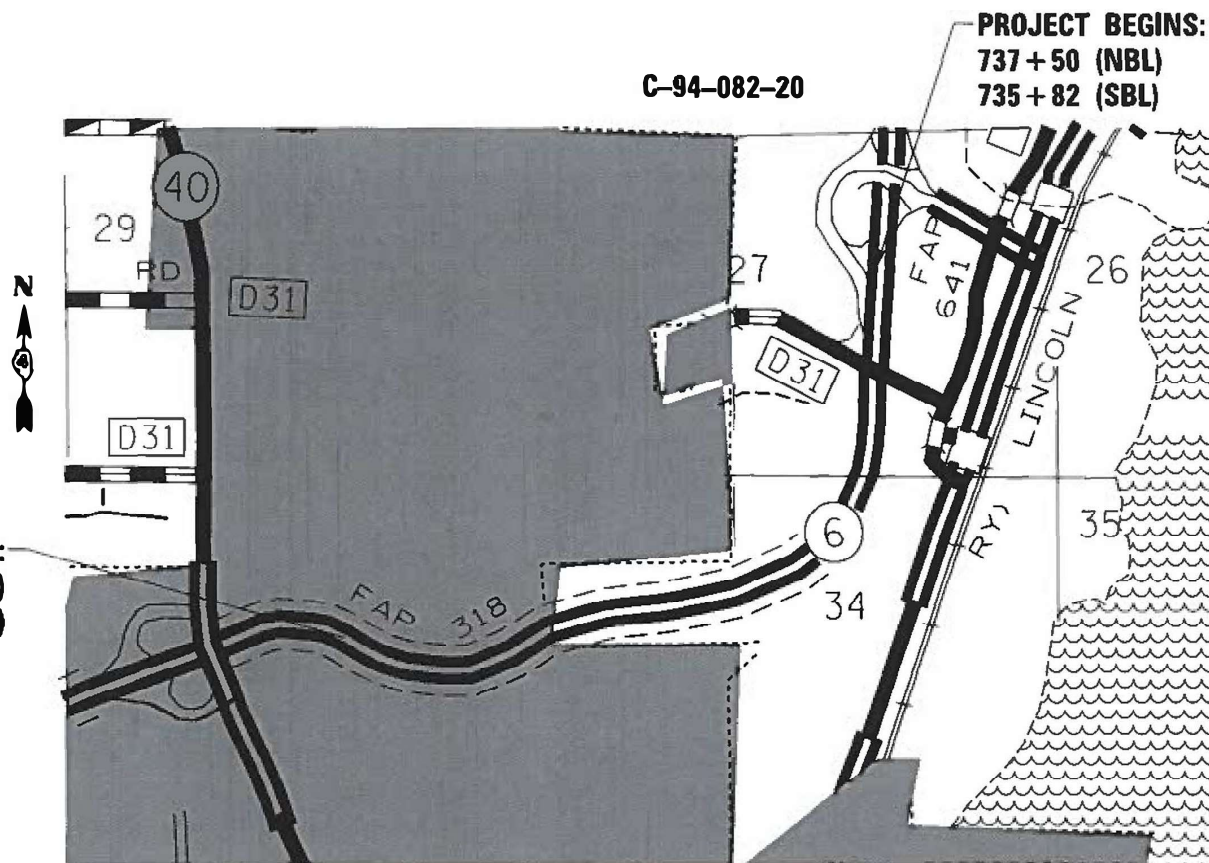
IL 6 STA. EQUATION:  
853 + 26.62(BK)  
852 + 72.23(AH)



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

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

PROJECT ENGINEER: MIKE LEWIS 309-671-3454  
PROJECT MANAGER: ELIAS ELDERZI 309-671-3482  
CATALOG NO. 036060-00D  
CONTRACT NO. 68F62



**PROJECT DESCRIPTION:**  
**SHOULDER RESTORATION**  
ALONG IL 6 FROM IL 40 (KNOXVILLE AVE) TO IL 29 IN PEORIA

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SUBMITTED Mar 26 20 20  
Kenzie A. Barnett, RGS  
REGIONAL ENGINEER

May 8, 2020  
Scott A. Elk  
ENGINEER OF DESIGN AND ENVIRONMENT

May 8, 2020  
James J. Gu  
DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

PRINTED BY THE AUTHORITY  
OF THE STATE OF ILLINOIS

GROSS LENGTH = 14,253.39 FT = 2.6995 MILE  
NET LENGTH = 14,253.39 FT = 2.6995 MILE

**COMMITMENTS**

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

No Commitments have been made for this project.

**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.

Prior to any waste materials being removed from the construction site the required environmental resource surveys will need to 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.

The required environmental resource documentation shall include the following:

- \* BDE Form 2289 (Environmental Survey Request)
- \* A location map showing the size limits and location of the use area
- \* Signed property owner agreement form-D4 PI0100
- \* Color photographs depicting the use area
- \* Borrow Area Entry Agreement form-D4 PI0101

Please note that a minimum of two weeks shall be allowed for the District to obtain the required environmental clearances.

**HOT-MIX ASPHALT MIXTURE REQUIREMENTS:**

Mixture Use(s):	Shoulders
AC /PG:	PG 64-22
Design Air Voids:	4.0% @ N= 50
Mixture Composition: (Mixture Gradation)	IL 9.5
Friction Aggregate:	Mix C
Quality Management Program:	QC QA

*Note: 1) Individual lift thickness of each mix type will be no less than 3 times nominal maximum aggregate size and no more than 6 times nominal maximum aggregate size, unless otherwise approved by the Engineer.*

*2) For design purposes, mixture weight for all mixes is determined to be 112.0 lb /s.y./in., unless otherwise noted.*

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DRAWN -	REVISIED -	318				72(6-1)SR-1	PEORIA	15	2	
PLOT SCALE = 400.0000 ' / in.	CHECKED -	REVISIED -		CONTRACT NO. 68F62						
PLOT DATE = 3/17/2020	DATE -	REVISIED -		SCALE:	SHEET 2 OF 15 SHEETS	STA. TO STA.	ILLINOIS FED. AID PROJECT			

POLYMERIZED BITUMINOUS MATERIALS (TACK COAT)

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

**PROJECT SPECIFIC NOTES**

- In addition to priming the milled shoulders; the vertical face at the edge of pavement and the vertical face of the edge of the remaining shoulder shall be thoroughly tacked (primed) by means of dedicated spray nozzle, mounted at 45 degree, aimed toward the faces. The extra HMA prime coat shall be paid for at the contract unit price per POUND for "POLYMERIZED BITUMINOUS MATERIALS (TACK COAT)"
- Due to the poor condition of the existing inside shoulders; it shall be milled and filled prior to starting work on the outside shoulders
- Only one lane shall be permitted to be closed in a given direction at a time
- Drop off on both sides of travel lanes are not allowed

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PLOT DATE = 3/17/2020	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**GENERAL NOTES COMMENTS  
AND PROJECT SPECIFIC NOTES**

SCALE: SHEET 3 OF 15 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
318	72(6-1)SR-1	PEORIA	15	3
CONTRACT NO. 68F62			ILLINOIS FED. AID PROJECT	

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CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONST. CODE
				PEORIA COUNTY 100% STATE 0005
40600295	POLYMERIZED BITUMINOUS MATERIALS (TACK COAT)	POUND	14003	14003
40600982	HOT - MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SO YD	49	49
44000161	HOT - MIX ASPHALT SURFACE REMOVAL, 3"	SO YD	19449	19449
48203100	HOT - MIX ASPHALT SHOULDERS	TON	3275.57	3275.57
67100100	MOBILIZATION	L SUM	1	1
70100420	TRAFFIC CONTROL AND PROTECTION, STANDARD 701411	EACH	2	2
70100700	TRAFFIC CONTROL AND PROTECTION, STANDARD 701406	L SUM	1	1
70107025	CHANGEABLE MESSAGE SIGN	CAL DA	14	14
* 78001110	PAINT PAVEMENT MARKING - LINE 4"	FOOT	50001	50001

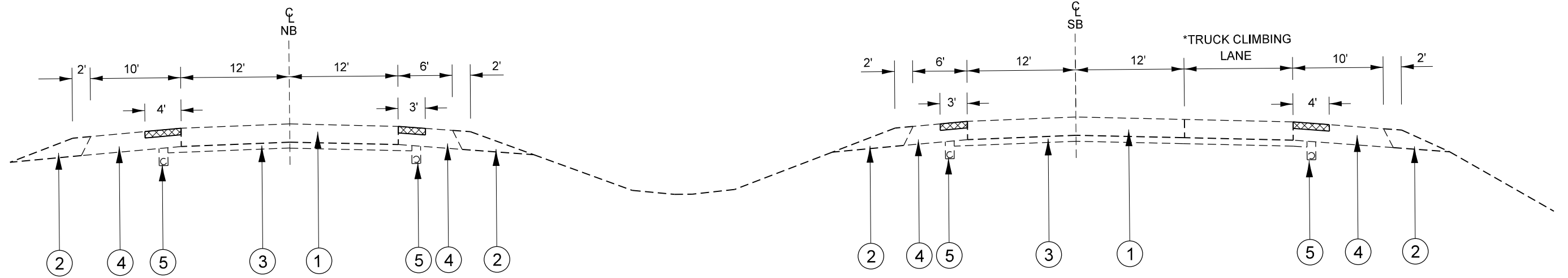
\*= SPECIALTY ITEM

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PLOT DATE = 3/17/2020	DATE -	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**SUMMARY OF QUANTITIES**

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
318	7216-11SR-1	PEORIA	15	4
			CONTRACT NO. 68F62	
ILLINOIS FED. AID PROJECT				



**IL 6**

STA. 747+12 TO STA. 866+25 (SBL DL)  
 STA. 735+82 TO STA. 866+25 (SBL PL)

STA. 737+50 TO STA. 860+26 (NBL DL)  
 STA. 746+50 TO STA. 860+26 (NBL PL)

- ① EXISTING CONTINUOUSLY REINFORCED PCC PAVEMENT, 10 1/2" (7/8" LONGITUDINAL BARS)
- ② EXISTING AGGREGATE SHOULDER
- ③ EXISTING STABILIZED SUB-BASE, 4"
- ④ EXISTING HMA SHOULDER
- ⑤ EXISTING SUB-SURFACE DRAINS

PROPOSED HMA SURFACE REMOVAL 3" / PROPOSED HMA SHOULDER

\* TRUCK CLIMBING LANE  
 12' - STA 788+00 TO 910+00 (SB)

NOT TO SCALE

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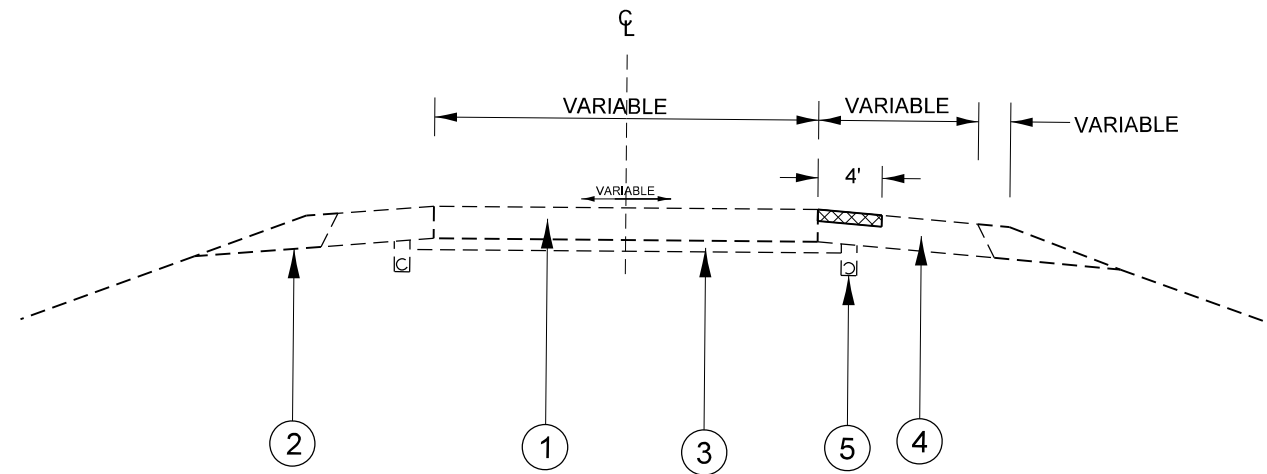
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PLOT DATE = 3/17/2020	DATE -	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**TYPICAL SECTION**

SCALE: SHEET 5 OF 15 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
318	72(6-1)SR-1	PEORIA	15	5
CONTRACT NO. 68F62			ILLINOIS FED. AID PROJECT	



RAMP E at IL 40  
 STA. 26+60.4 TO STA. 34+22  
 RAMP B at IL 29  
 STA. 6+80 TO STA. 10+94

- ① EXISTING CONTINUOUSLY REINFORCED  
PCC PAVEMENT, 10 1/2" (7/8" LONGITUDINAL BARS)
- ② EXISTING AGGREGATE SHOULDER
- ③ EXISTING STABILIZED SUB-BASE, 4"
- ④ EXISTING HMA SHOULDER
- ⑤ EXISTING SUB-SURFACE DRAINS

PROPOSED HMA SURFACE REMOVAL 3"/ PROPOSED HMA SHOULDER

NOT TO SCALE

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PLOT DATE = 3/17/2020	DATE -	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**TYPICAL RAMP SECTION**

SCALE: SHEET 6 OF 15 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
318	72(6-1)SR-1	PEORIA	15	6
CONTRACT NO. 68F62			ILLINOIS FED. AID PROJECT	

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	LOCATION			LENGTH	REMOVAL WIDTH		AREA		BUTT JOINT		HOT-MIX ASPHALT SURFACE REMOVAL		HOT-MIX ASPHALT SHOULDERS 3"		POLIMERIZED BITUMINOUS MATERIALS (TACK COAT RATE USED IS 0.08 LB/SQ FT)	
					LT	RT	LT	RT	LT	RT	LT	RT	LT	RT	LT	RT
NORTHBOUND LANES	PASSING LANE SHOULDER			FT	FT	FT	SQ YD	SQ YD	SQ YD	SQ YD	SQ YD	SQ YD	TON	TON	LB	LB
	STA.	746+50	TO	746+60	10.00	3.00		3.33		3.33			0.56			
	STA.	746+60	TO	853+27	10666.62	3.00		3555.54				3555.54	597.33		2559.99	
	STA. EQUATION STA. 853+26.62(BK) = 852+72.23 (AH)															
	STA.	852+72	TO	860+16	743.77	3.00		247.92				247.92	41.65		178.50	
	STA.	860+16	TO	860+26	10.00	3.00		3.33		3.33			0.56			
	DRIVING LANE SHOULDER															
	STA.	737+50	TO	737+60	10.00		4.00		4.44		4.44			0.75		
	STA.	737+60	TO	853+27	11566.62		4.00		5140.72				5140.72	863.64		3701.32
	STA. EQUATION STA. 853+26.62(BK) = 852+72.23 (AH)															
STA.	852+72	TO	860+16	743.77		4.00		330.56				330.56	55.53		238.01	
STA.	860+16	TO	860+26	10.00		4.00		4.44		4.44			0.75			
SOUTHBOUND LANES	PASSING LANE SHOULDER															
	STA.	735+82	TO	735+92	10.00	3.00		3.33		3.33			0.56			
	STA.	735+92	TO	853+27	11734.62	3.00		3911.54				3911.54	657.14		2816.31	
	STA. EQUATION STA. 853+26.62(BK) = 852+72.23 (AH)															
	STA.	852+72	TO	866+15	1342.77	3.00		447.59				447.59	75.20		322.26	
	STA.	866+15	TO	866+25	10.00	3.00		3.33		3.33			0.56			
	DRIVING LANE SHOULDER															
	STA.	747+12	TO	747+22	10.00		4.00		4.44		4.44			0.75		
	STA.	747+22	TO	853+27	10604.62		4.00		4713.16				4713.16	791.81		3393.48
	STA. EQUATION STA. 853+26.62(BK) = 852+72.23 (AH)															
STA.	852+72	TO	866+15	1342.77		4.00		596.79				596.79	100.26		429.69	
STA.	866+15	TO	866+25	10.00		4.00		4.44		4.44			0.75			
RAMPS	RAMP E AT IL 40 INTERCHANGE															
	STA.	26+60	TO	26+70	10.00		4.00		4.44		4.44		0.75			
	STA.	26+70	TO	34+12	741.60		4.00		329.60				329.60	55.37		237.31
	STA.	34+12	TO	34+22	10.00		4.00		4.44		4.44			0.75		
	RAMP B AT IL 29 INTERCHANGE															
	STA.	6+80	TO	6+90	10.00		4.00		4.44		4.44			0.75		
	STA.	6+90	TO	10+84	394.00		4.00		175.11				175.11	29.42		126.08
STA.	10+84	TO	10+94	10.00		4.00		4.44		4.44			0.75			
SUBTOTAL									13.33	35.56	8162.59	11285.95	1373.56	1902.01	5877.07	8125.88
TOTAL									48.89		19448.54		3275.57		14002.95	

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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**SCHEDULE OF QUANTITIES**

SCALE: SHEET 7 OF 15 SHEETS STA. TO STA.

F.A.P RTE. 318	SECTION 72(6-1)SR-1	COUNTY PEORIA	TOTAL SHEETS 15	SHEET NO. 7
		CONTRACT NO. 68F62		
ILLINOIS FED. AID PROJECT				

	LOCATION				LENGTH (FT)	PAINT PAVEMENT MARKING	
						LT EDGE LINE 4" SOLID YELLOW	RT EDGE LINE 4" SOLID WHITE
NORTHBOUND LANES	PASSING LANE SHOULDER					FT	FT
	STA.	746+50	TO	746+60	10.00	10.00	
	STA.	746+60	TO	853+27	10666.62	10666.62	
	STA. EQUATION STA. 853+26.62(BK) = 852+72.23 (AH)						
	STA.	852+72	TO	860+16	743.77	743.77	
	STA.	860+16	TO	860+26	10.00	10.00	
	DRIVING LANE SHOULDER						
	STA.	737+50	TO	737+60	10.00		10.00
	STA.	737+60	TO	853+27	11566.62		11566.62
	STA. EQUATION STA. 853+26.62(BK) = 852+72.23 (AH)						
	STA.	852+72	TO	860+16	743.77		743.77
	STA.	860+16	TO	860+26	10.00		10.00
SOUTHBOUND LANES	PASSING LANE SHOULDER						
	STA.	735+82	TO	735+92	10.00	10.00	
	STA.	735+92	TO	853+27	11734.62	11734.62	
	STA. EQUATION STA. 853+26.62(BK) = 852+72.23 (AH)						
	STA.	852+72	TO	866+15	1342.77	1342.77	
	STA.	866+15	TO	866+25	10.00	10.00	
	DRIVING LANE SHOULDER						
	STA.	747+12	TO	747+22	10.00		10.00
	STA.	747+22	TO	853+27	10604.62		10604.62
	STA. EQUATION STA. 853+26.62(BK) = 852+72.23 (AH)						
	STA.	852+72	TO	866+15	1342.77		1342.77
	STA.	866+15	TO	866+25	10.00		10.00
RAMPS	RAMP E AT IL 40 INTERCHANGE						
	STA.	26+60	TO	26+70	10.00		10.00
	STA.	26+70	TO	34+12	741.60		741.60
	STA.	34+12	TO	34+22	10.00		10.00
	RAMP B AT IL 29 INTERCHANGE						
	STA.	6+80	TO	6+90	10.00		10.00
	STA.	6+90	TO	10+84	394.00		394.00
	STA.	10+84	TO	10+94	10.00		10.00
SUBTOTAL					24527.78	25473.38	
TOTAL					50001.16		

LOCATION	TRAFFIC CONTROL AND PROTECTION, STANDARD 701411
	EACH
RAMP E AT IL 40 INTERCHANGE	1
RAMP B AT IL 29 INTERCHANGE	1
TOTAL	2

LOCATION	TRAFFIC CONTROL AND PROTECTION, STANDARD 701406
	LUMP SUM
JOBSITE	1
TOTAL	1

LOCATION	CHANGEABLE MESSAGE SIGN
	CAL DAY
JOBSITE (2 signs at 7 days)	14
TOTAL	14

LOCATION	MOBILIZATION
	LUMP SUM
JOBSITE	1
TOTAL	1

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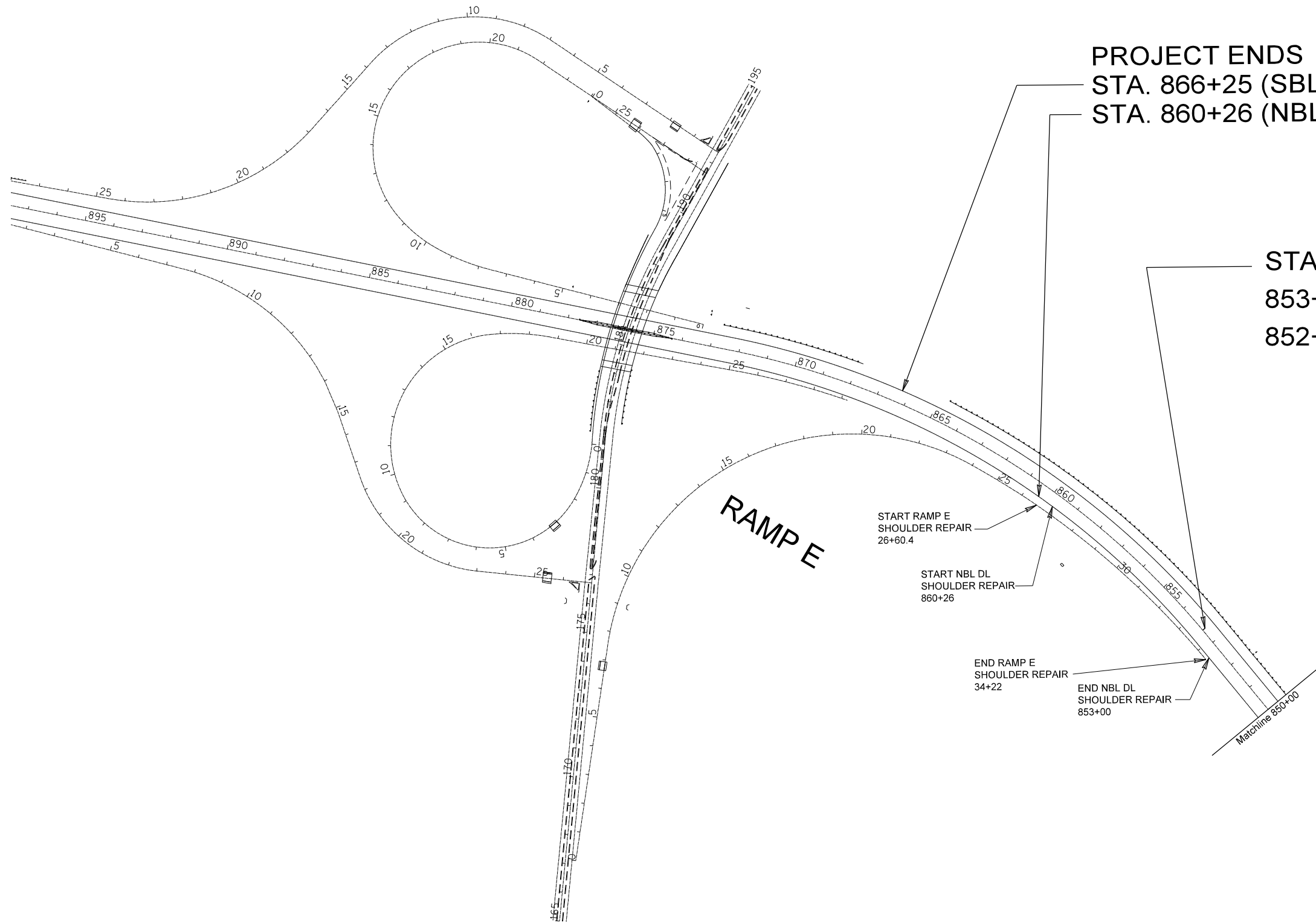
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**SCHEDULE OF QUANTITIES**

SCALE: SHEET 8 OF 15 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
318	72(6-1)SR-1	PEORIA	15	8
CONTRACT NO. 68F62			ILLINOIS FED. AID PROJECT	





PROJECT ENDS  
 STA. 866+25 (SBL)  
 STA. 860+26 (NBL)

STA. EQUATION  
 853+26.62(BK)  
 852+72.23(AH)

RAMP E

START RAMP E  
 SHOULDER REPAIR  
 26+60.4

START NBL DL  
 SHOULDER REPAIR  
 860+26

END RAMP E  
 SHOULDER REPAIR  
 34+22

END NBL DL  
 SHOULDER REPAIR  
 853+00

Matchline 850+00

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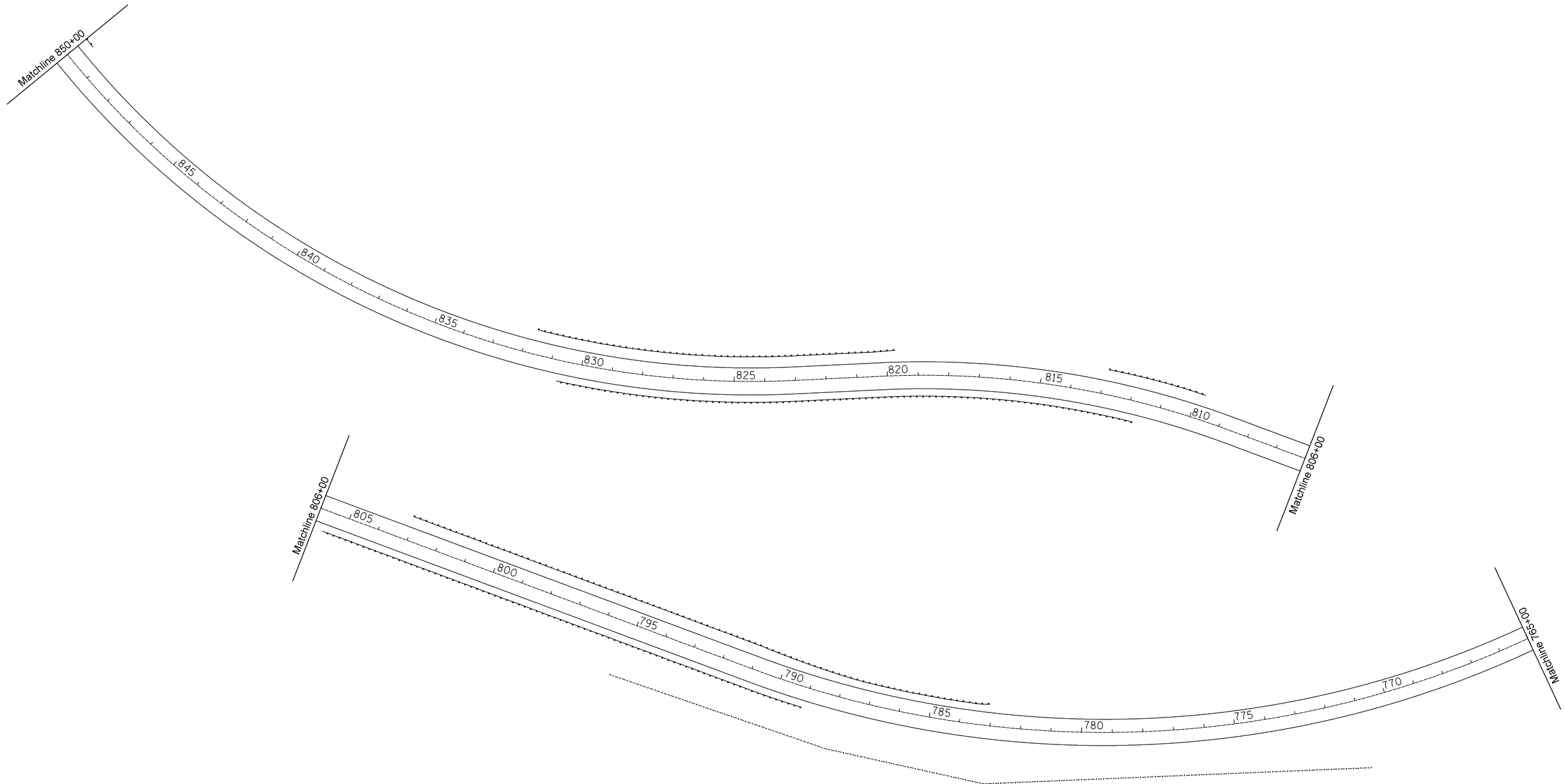
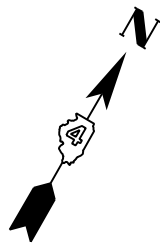
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PLOT DATE = 3/17/2020	DATE -	REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

LINE DIAGRAM

SCALE: SHEET 9 OF 15 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
318	72(6-1)SR-1	PEORIA	15	9
CONTRACT NO. 68F62				
ILLINOIS FED. AID PROJECT				



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PLOT DATE = 3/26/2020	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

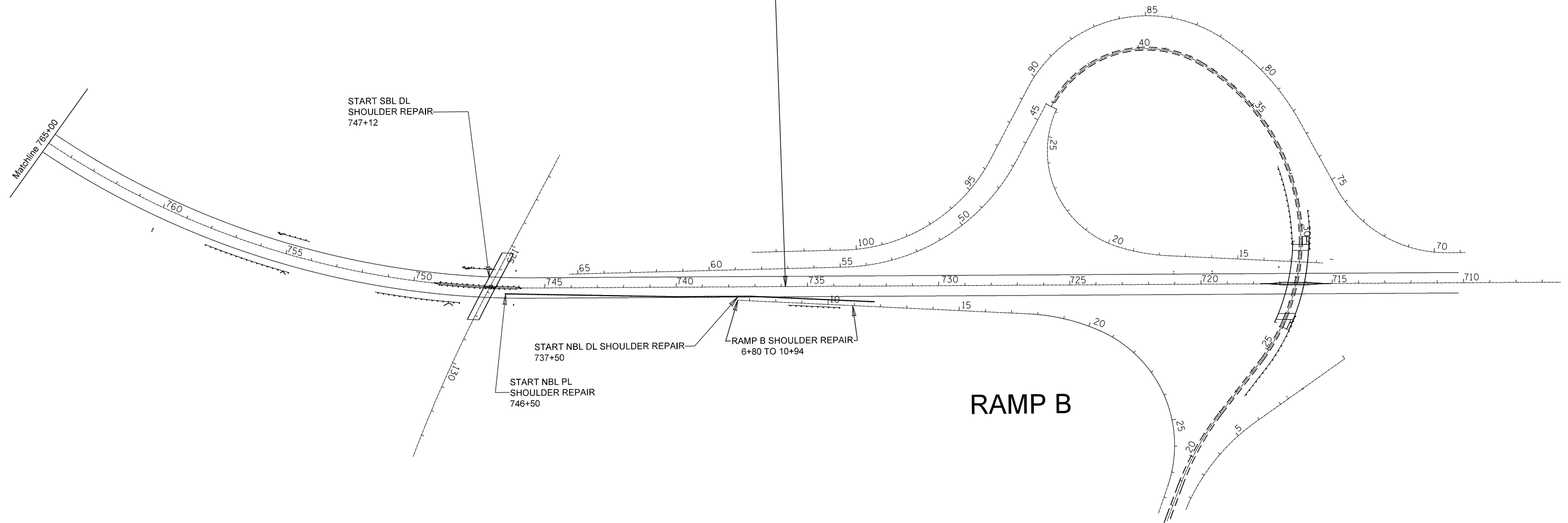
**LINE DIAGRAM**

SCALE: SHEET 10 OF 15 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
318	72(6-1)SR-1	PEORIA	15	10
ILLINOIS FED. AID PROJECT			CONTRACT NO. 68F62	



Project Begins  
735+82



L 29  
Interchange

MODEL: Default  
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 DATA  
 DRAWINGS  
 DESIGN

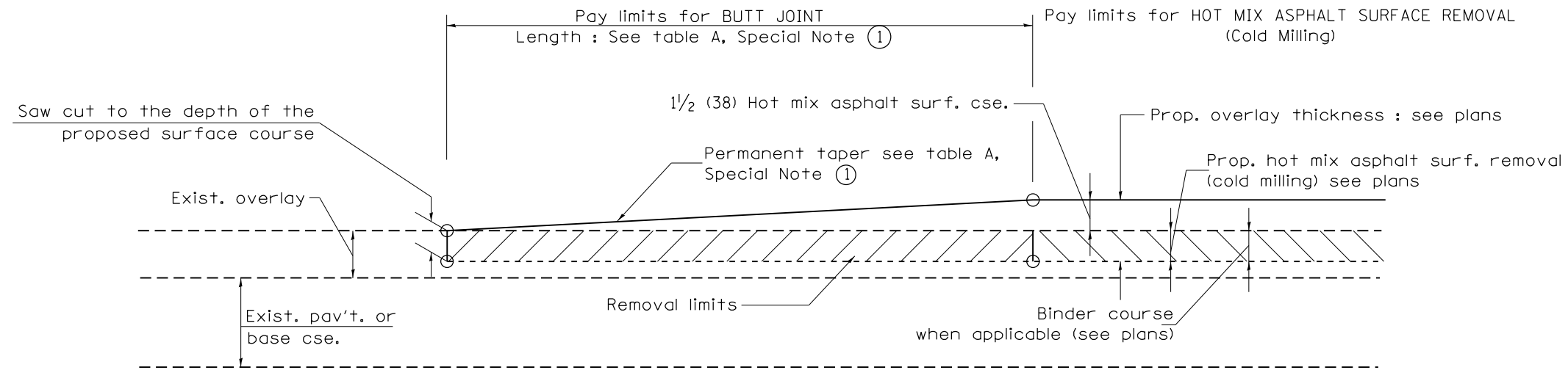
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PLOT DATE = 3/17/2020	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**LINE DIAGRAM**

SCALE: SHEET 11 OF 15 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
318	72(6-1)SR-1	PEORIA	15	11
CONTRACT NO. 68F62				
ILLINOIS FED. AID PROJECT				



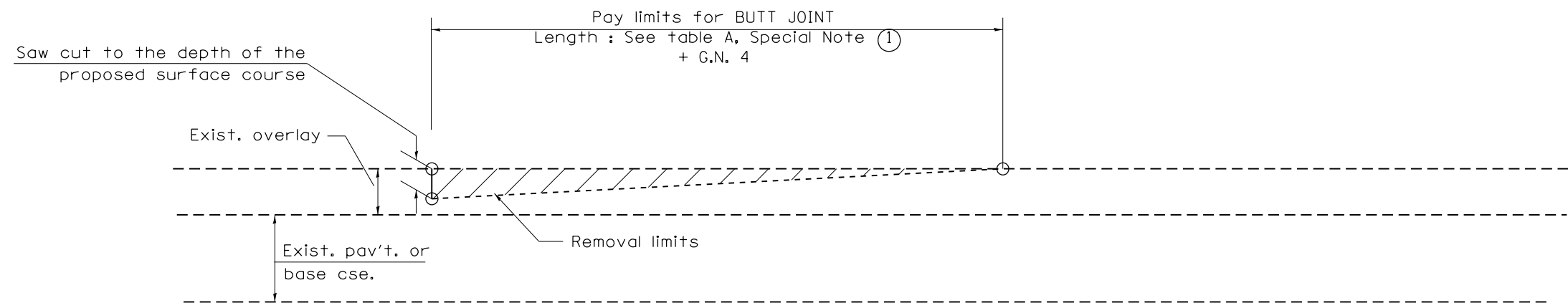
**CASE 1 : WITH HOT MIX ASPHALT SURFACE REMOVAL (COLD MILLING)**

**TABLE A  
TAPER RATES**

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

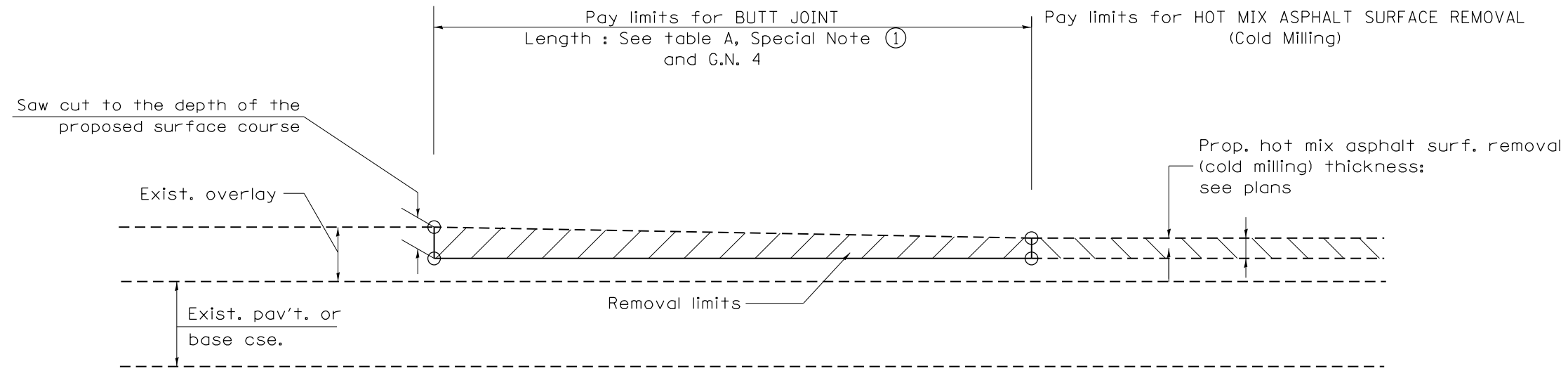
**GENERAL NOTES**

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

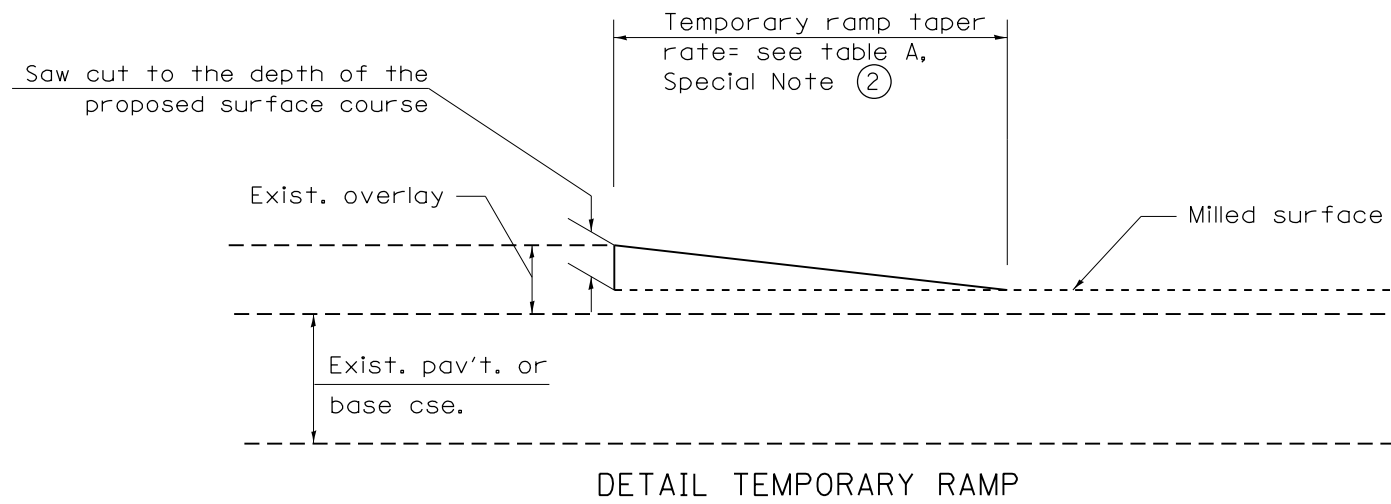


**CASE 2 : NO HOT MIX ASPHALT SURFACE REMOVAL (COLD MILLING)**

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

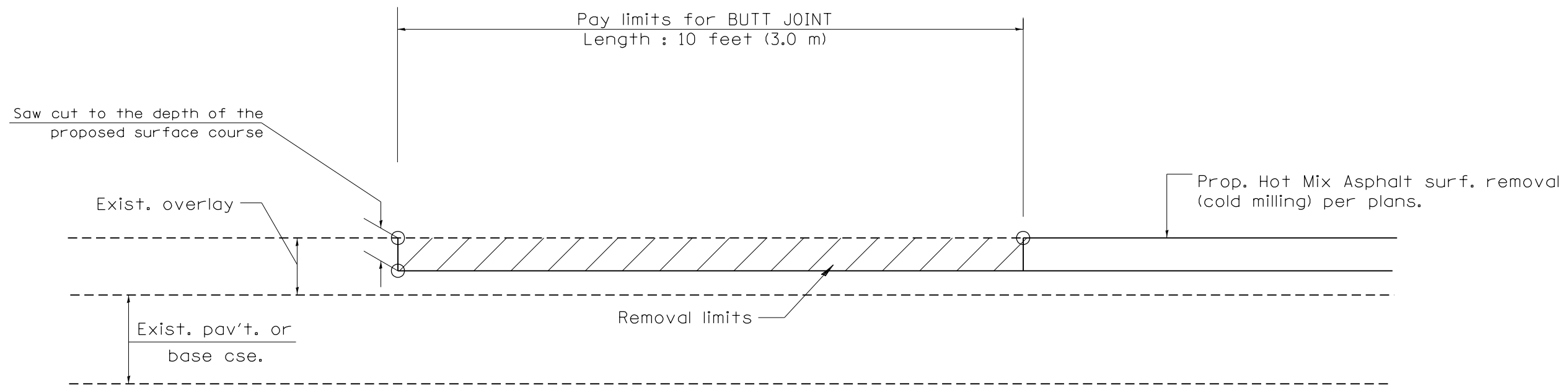


CASE 3 : HOT MIX ASPHALT SURFACE REMOVAL (COLD MILLING)  
TIE-IN TO EXISTING BITUMINOUS TAPER



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

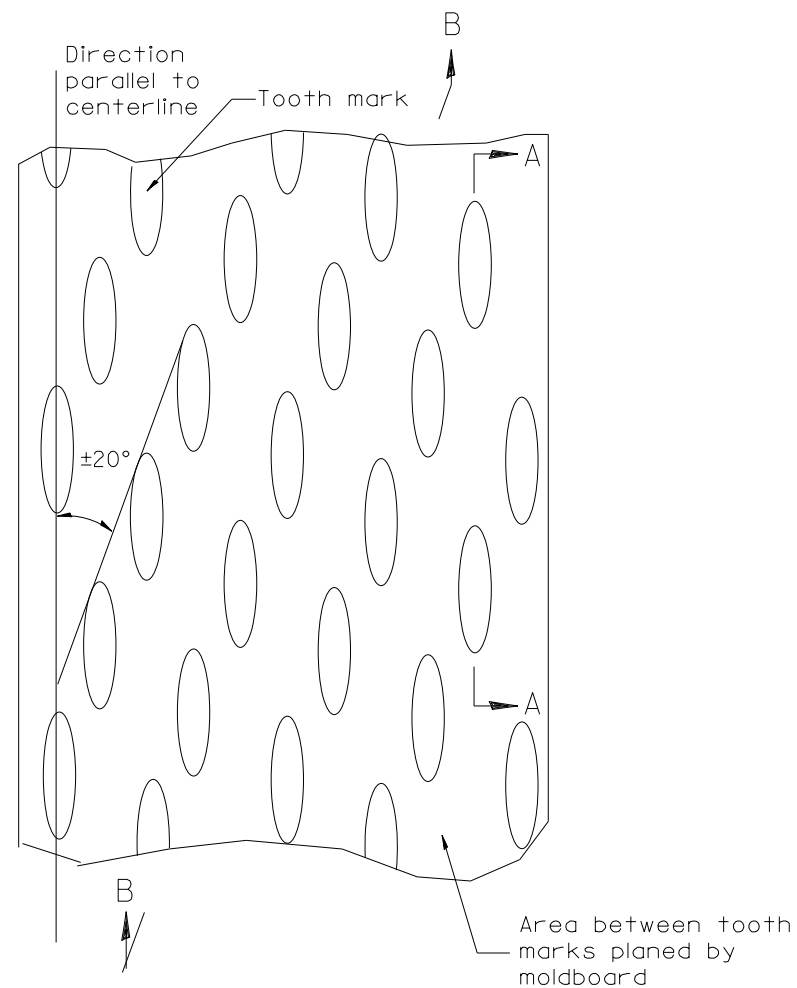
				STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	BUTT JOINTS	SHT. 2 OF 3 CADD STD. 406101-D4	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
							FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT	318	72(6-1)SR-1
				NOT TO SCALE			CONTRACT NO. 68F62				



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

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

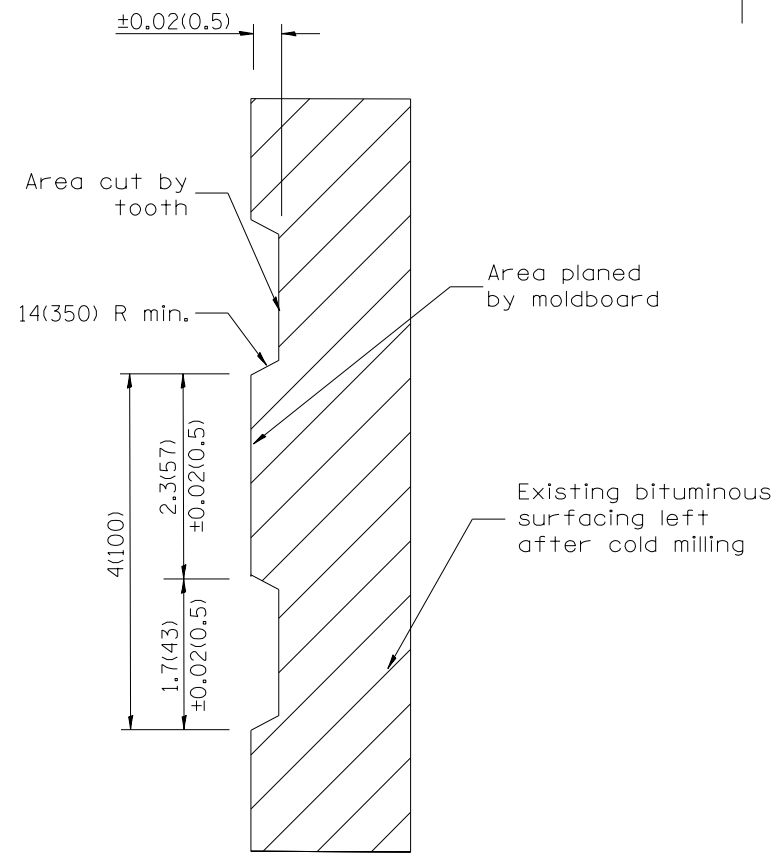
				<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>		<b>BUTT JOINTS</b>		SHT. 3 OF 3 CADD STD. 406101-D4		NOT TO SCALE	
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.							
318	72(6-1)SR-1	PEORIA	15	14							
				CONTRACT NO. 68F62							
FED. ROAD DIST. NO.		ILLINOIS		FED. AID PROJECT							



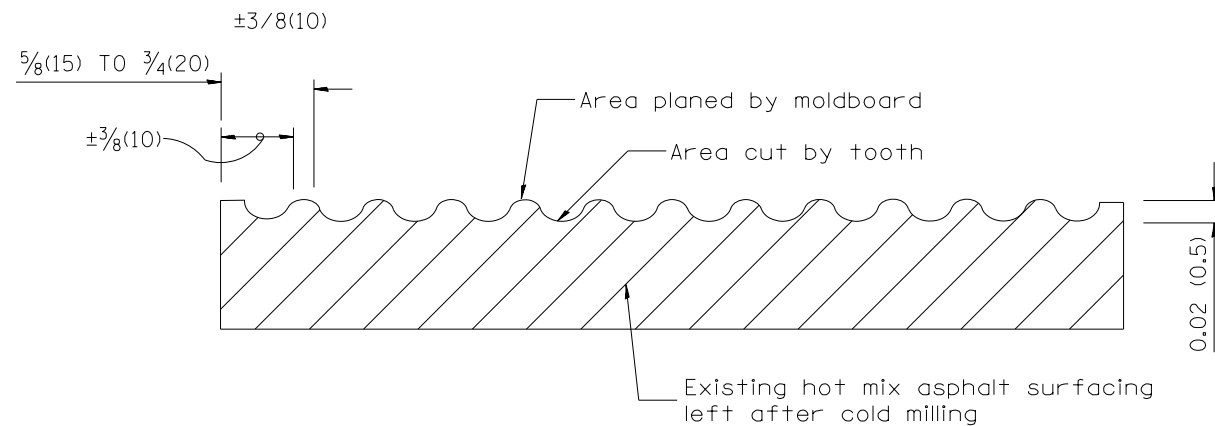
PLAN

General notes:

1. Coldmilling shall consist of two processes: Cutting with carbide teeth mounted on a rotating drum, and planing with a moldboard mounted immediately behind the cutting drum.
2. Other similar patterns will be acceptable if they consist of a smooth, flat, planed surface interspersed with a pattern of discontinuous longitudinal striations.



SECTION A-A



SECTION B-B PROJECTED PERPENDICULAR TO CENTERLINE

DESIGNER NOTES:  
1. INCLUDE DISTRICT SPECIAL PROVISION, IF APPLICABLE.

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

01-01-97	RENUM. C-104.01, NEW REVISION BOX	T.P.
04-20-98	REMOVED MILLING DETAIL FROM STANDARD	J.A.
09-08-98	CORRECT NOTE LEADER PLACEMENT	R.W.
10-16-06	REVISED TO 2007 SPEC.	M.A.

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

HOT MIX ASPHALT SURFACE REMOVAL (COLD MILLING)

NOT TO SCALE

CADD STD. 440001-D4

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
318	7216-1)SR-1	PEORIA	15	15
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 68F62	