# INDEX OF SHEETS 06-12-2015 LETTING ITEM 085 STATE OF ILLINOIS

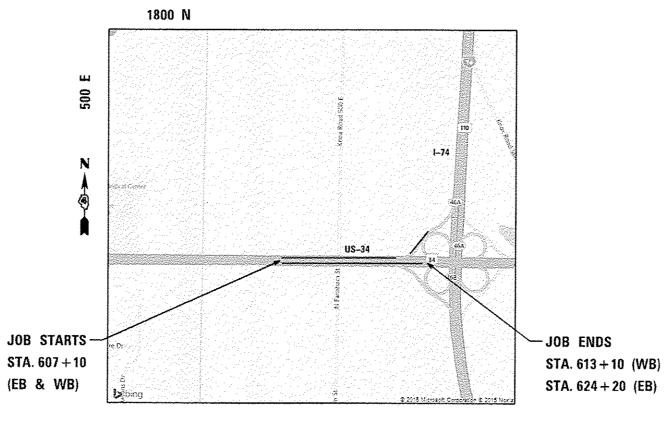
DEPARTMENT OF TRANSPORTATION

**DIVISION OF HIGHWAYS** 

# PROPOSED HIGHWAY PLANS

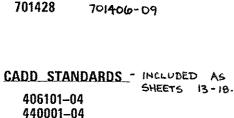
US 34 ROUTE FAP 313 SECTION 21RS-2 PROJECT N/A INTERMITTENT MILLING & RESURFACING KNOX COUNTY

C-94-071-15



PROJECT ENGINEER: CHRISTOPHER MAUSHARD, 309-671-3453 PROJECT MANAGER: GEORGE ELIAS, 309-671-3467

CONTRACT NO. 68C54 CATALOG NO. 035263-00D GROSS LENGTH = 1,710 FT. = 0.324 MILE NET LENGTH = 1,710 FT. = 0.324 MILE



**COVER SHEET & SIGNATURE** 

SCHEDULE OF QUANTITIES

5-6. SUMMARY OF QUANTITIES

2-4. GENERAL NOTES

7–9. TYPICAL SECTION

PLAN VIEW

13-18. CADD STANDARDS

**HIGHWAY STANDARDS** 

701400-08 701451-03 701411-09 701901-04

701422-07 780001-05

701426--07 781001--03

12. LINE DIAGRAM

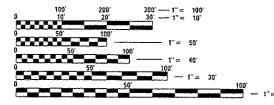
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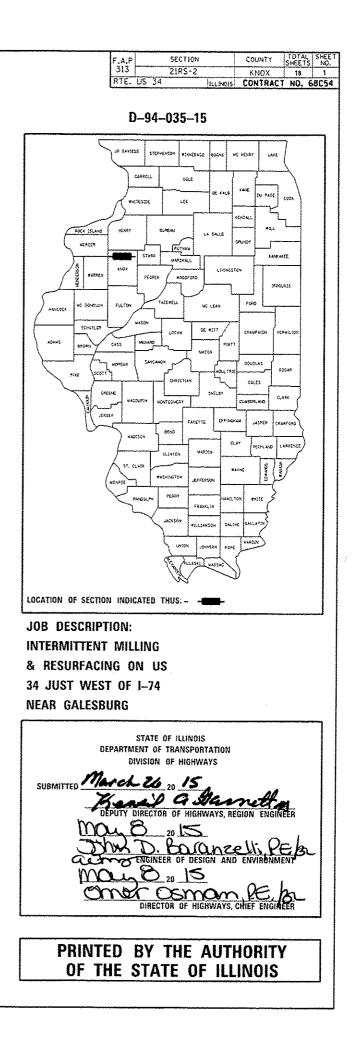
780001–04

ADT: 14300 /2013 MU: 10.5% - 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.LI.E. JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION 1-800-892-0123 OR 811 DEPARTMENT OF TRA



# COMMITMENTS

Commitments are not to be altered without the written approval of all parties to which the commitment was made. NO COMMITMENT WERE MADE.

# **PAVEMENT STATION NUMBERS & PLACEMENT**

The Contractor shall provide labor and materials required to imprint pavement station numbers in the finished surface of the pavement and/or overlay. The numbers shall be approximately 3/4 inch (20 mm) wide, 5 inches (125 mm) high and 5/8 inch (15 mm) deep.

The pavement station numbers shall be installed as specified herein:

Interval – 200 feet (English stationing) or 100 meters (metric stationing)

Bottom of Numbers – 6 inches (150 mm) from the inside edge of the pavement marking Location:

– 2, 3, & 5 Lane Pavements – right edge of pavement in direction of increasing stations

- Multi-Lane Divided Roadways - outside edge of pavement in both directions

- Ramps - along baseline edge of pavement

Position – stations shall be placed so they can be read from the adjacent shoulder

Format – English (Metric) pavement stations shall use this format \*XXX (XX + X00)\*,

where X represents the pavement station

This work will not be paid for separately, but will be included in the cost of the associated pavement and/or overlay pay items.

FILE NAME =	USER NAME = aubroyga	DESIGNED -	REVISED -		
U\$3401-74.dgn		0RAWN	REVISED -	STATE OF ILLINOIS	GENERAL NOTES
	PLOT SCALE * 200.0000 1/ in.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION	
Default	PLOT DATE + 3/27/2015	DATE	REVISED -		SCALE: SHEET OF SHEETS STA

F.A.P SEC FLOM COUNTY TOTAL SFECT   7.3.2 2165-2 KNOX 10 2   RTLE, US 34 COUNTX NOX 10 2	TO STA		 ILLINO(S	FED. AIC	PROJECT				1
		313	 21RS-2		KNO		18	2	
	······	F.A.P	 SECTION		COUNT	Υ	TOTAL	SHEET	
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# **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 (Cultural and Natural Resources Review of Borrow Areas)
- \* 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.

FILE NAME =	USER NAME = subrayga	DESIGNED	REVISED -			F.A.P SECTION	COUNTY SHEETS NO.
US34el-74,dgn		DRAWN	REVISED -	STATE OF ILLINOIS	GENERAL NOTES	313 21RS-2	KN0X 19 3
	PLOT SCALE * 200.0000 1/ 10.	CHECKED	REVISED -	DEPARTMENT OF TRANSPORTATION		RTE. US 34	CONTRACT NO. 68054
Default	PLOT DATE + 3/27/2015	DATE -	REVISED -		SCALE: SHEET OF SHEETS STA TO STA.	LLINDIS FED.	ATO PROJECT

	Curfage Course 2 E"				
Mixture use(s):	Surface Course 2.5"				
	(placed in two 1.25" lifts)				
AC/PG:	SBS OR SBR 76-22				
Design Air Voids:	4.0% N = 50				
Mixture Composition:	IL 9.5				
(Mixture Gradation)					
Friction Aggregate:	Mix D				
Quality Management					
Program:	QCQA				

The following mixture requirements are applicable to this project:

# BUTT JOINT CUTTING TIME RESTRICTION

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

# **PAVING SURFACE COURSE**

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

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U\$3401-74.dgn		ORAWN -	REVISED -	STATE OF ILLINOIS	GENERAL NOTES
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	640	SECTION	COUNTY	TOTAL SHEET SHEETS NO.
	F,A,P 313	21RS-2	KNOX	18 4
TO STA	RTE, US 34		I CONTRAC	T NO. 68C54

					CONSTRUCTI	ON CODE			
				(1970.0.)	0005				
				URBAN	KNOX				
CODE NO.	ITE	М	UNIT	TOTAL					
NU.				QUANTITY	100% STATE				
0600285	POLYMERIZED BITUMINOUS MATERIALS (PRIME COAT)		POUND	2993	2993				
0000200	I DE IMERTZED BETUMINOUS MATERIALS (FAIME COATI			2353	2322		•		
000082	HOT - MIX ASPHALT SURFACE REMOVAL - BUTT JOINT		SO YD	362	362				
000002	nui - wix Asenali Sunface newoval - Buii Juini			362	202				
0600990	TEMPORARY RAMP		SO YD	56	56				
			30 10	56	20				
0603335	HOT - MIX ASPHALT SURFACE COURSE, MIX "D". N50		TON	631	631				
	ANTE ANTA ANTALE NORME COURSE, MIA V, NOU		+ U14	001	531				
14000159	HOT - MIX ASPHALT SURFACE REMOVAL, 2 1/2"		SO YD	4434	4434				
7100100	MOBILIZATION		L SUM	1					
				3					
0100315	TRAFFIC CONTROL AND PROTECTION, STANDARD 701422		EACH	1					
0100420	TRAFFIC CONTROL AND PROTECTION, STANDARD 701411	· · · · · · · · · · · · · · · · · · ·	EACH	3	3				
0100820	TRAFFIC CONTROL AND PROTECTION, STANDARD 701451		L SUM	1	1				
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0300100	SHORT-TERM PAVEMENT MARKING		FOOT	1608	1608				
0300220	TEMPORARY PAVEMENT MARKING - LINE 4"		FOOT	2350	2350	······			
		······································							
1									
0300240	TEMPORARY PAVEMENT MARKING - LINE 6"		FOOT	631	631				
0300250	TEMPORARY PAVEMENT MARKING - LINE 8"		FOOT	380	380				
	,								
0301000	WORK ZONE PAVEMENT MARKING REMOVAL		SO FT	536	536				
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\* SPECIALTY

FILE NAME :

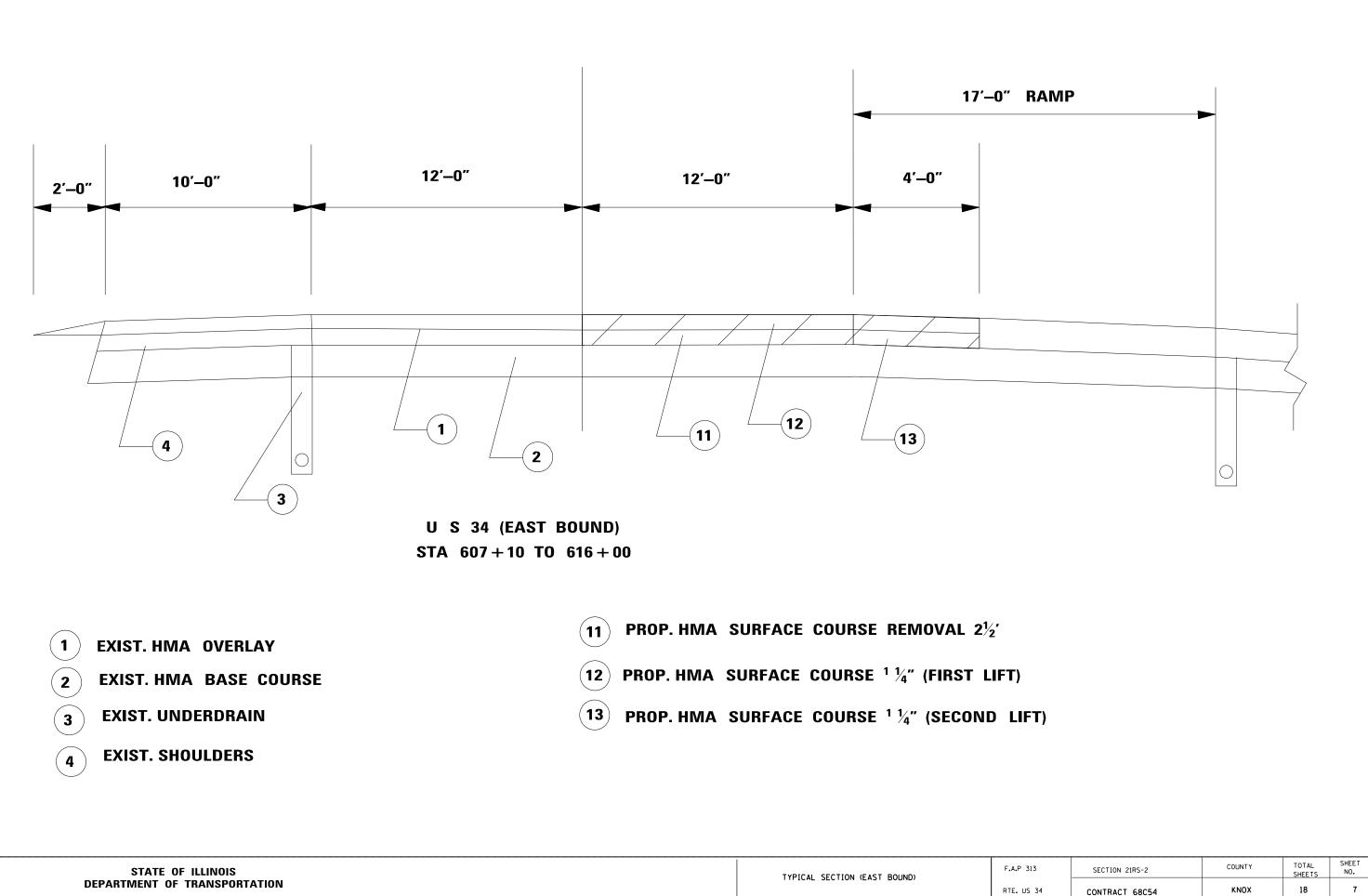
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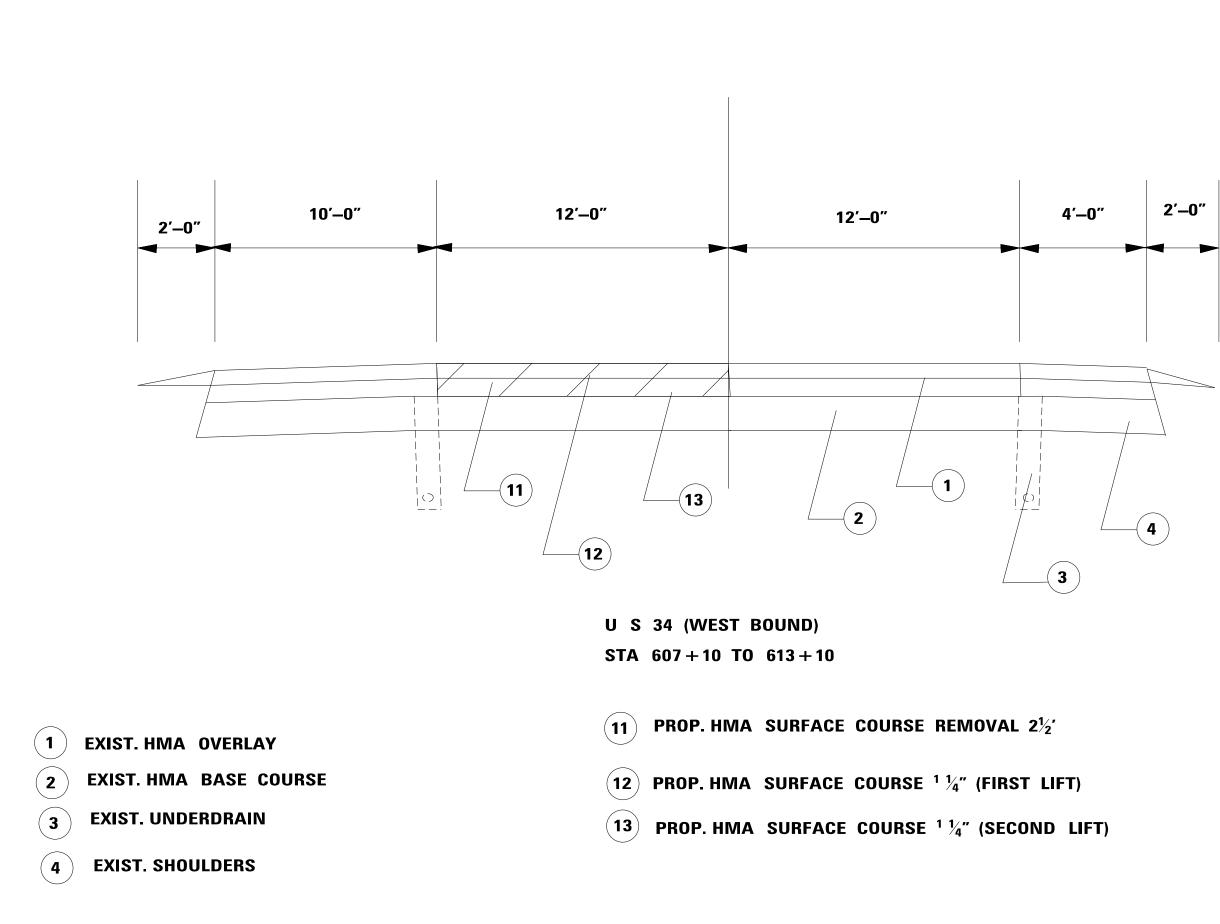
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		CODE			ITEM		UNIT	TOTAL	· · · · · · · · · · · · · · · · · · ·
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		·							
	¥	7800111	O PAINT PAVEMENT MARK	KING - LINE 4"			FOOT	2350	2350
	•.					·······			
				· · · · · · · ·					
	4	7800113	O PAINT PAVEMENT MARK	KING - LINE 6"			FOOT	631	631
				<b>**</b> **********************************					······································
	*	7800114	O PAINT PAVEMENT MAR	KING - LINE 8"			FOOT	380	380
		7830020	A RAISED REELECTIVE	PAVEMENT MARKER REMOVAL			EACH	29	29
		1030020			-			23	
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		x 101500	5 CHANGEABLE MESSAGE	510N			CAL DA	15	15
		Z003410	5 MATERIAL TRANSFER C	DEVICE			TON	631	631
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	PLOT SCALE + 200.0000 - / 10.		CHECKED -	REVISED -	DEPARTMENT OF TRAN		SUMMARY (	)F QUANTITIES	RTE. US 34
	PLOT DATE + 3/27/2015		DATE	REVISED -		·	<u> </u>		

F.A.P 313	SECTION 21RS-2	COUNTY	TOTAL SHEETS	SHEET NO.
631				
15				
1				
29				
380				
110				
631				
2350				
STATE				
KNOX				
0005				
CONSTRUCT	ION CODE			

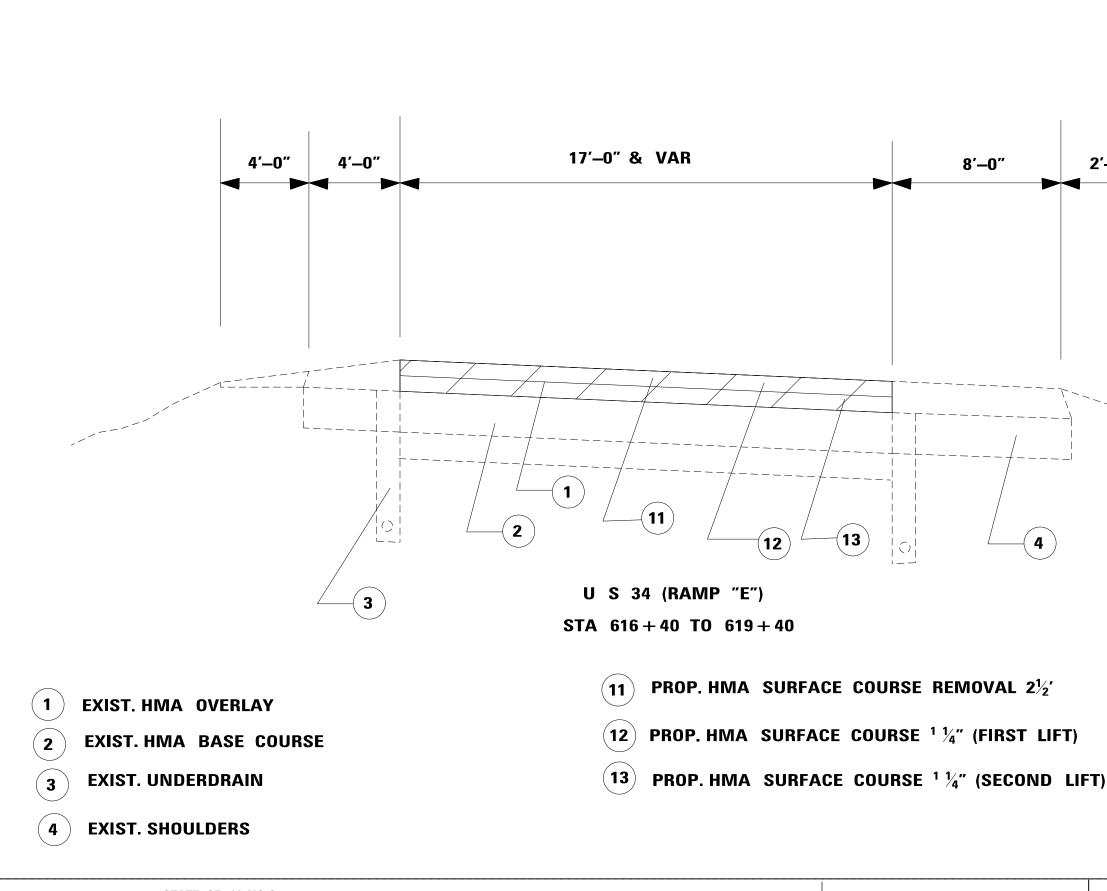
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STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

F.A.P 313	SECTION 21RS-2	COUNTY	TOTAL SHEETS	SHEET NO.
RTE. US 34	CONTRACT 68C54	KNOX	18	8



STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

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F.A.P 313	SECTION 21RS-2	COUNTY	TOTAL SHEETS	SHEET NO.
RTE. US 34	CONTRACT 68C54	KNOX	18	9

L	OCATIO	NS	LENGTH	AVRG WIDTH	AREA	POLYMER BIT. MAT (PR CT)	*HOT - MIX ASPHALT SURF CSE MIX "D" N50	HOT - MIX ASPHALT SURF REMOVAL 2 1/2"	MATERIAL TRANSFER DEVICE
STATION	то	STATION	FT	FT	SQ YD	POUND	TON	SQ YD	TON
WEST BOI	JND					•			
607+10	то	613+10	600	12	800	540	114	800	114
RAMP "E"						·	·		
616+40	то	623+10	670	17	1,266	854	180	1,266	180
EAST BOU	ND								
607+10	то	624+20	1,710	12	2,280	1,539	325	2,280	325
612+80	то	614+80	200	4	89	60	13	89	13
TOTALS						2,993	631	4,434	631

			**BIT SURF	TEMP
LOCATION			REMOVAL	RAMPS
			BUTT-JOINT	
STATION	то	STATION	SQ YD	SQ YD
WEST BOU	JND			
607+10	то	613+10	107	16
RAMP "E"				
616+40	то	623+10	113	19
EAST BOU	ND			
607+10	то	624+20	107	16
612+80	то	614+80	36	5
TOTALS			362	56

\* TWO LIFTS 1 1/4" EACH

\*\*\* THREE APPLICATIONS

			***SHORT-TERM	WORK ZONE
	LOCATIONS		PAVEMENT	PVT. MRK.
			MARKING	REMOVAL
STATION	то	STATION	FT	SQ FT
WEST BOUND	-			
607+10	то	613+10	180	60
RAMP "E"				
616+40	то	623+10	402	134
EAST BOUND				
607+10	то	624+20	1,026	342
TOTALS			1,608	536

\*\* SAW CUT AND CLEAN UP PAVEMENT

COST INCLUDED IN BUTT-JOINT

r					
			& TEMP PVT	& TEMP PVT	& TEMP PVT
LOCATION			MARKING LINE	MARKING LINE	MARKING LINE
			4"	6"	8"
STATION	то	STATION	FT	FT	FT
WEST BOU	IND				
607+10	то	613+10	210	350	0
RAMP "E"					
616+40	то	623+10	1,210	0	130
EAST BOU	EAST BOUND				
607+10	то	611+10	400	100	0
611+10	то	614+30	0	283	0
614+30	то	616+80	0	63	250
616+80	то	624+20	740	185	0
TOTALS			2,350	631	380

			RAISED REF
			PVT MRKRS
LOCATION			REMOVAL
STATION	то	STATION	EACH
WEST BOUND			
607+10	TO	613+10	8
RAMP "E"			
616+40	TO	623+10	0
EAST BOUND			
607+10	TO	624+20	21
612+80	TO	614+80	0
TOTALS			29

TRAF C JOBSITI ΤΟΤΑΙ

TRAF CO JOBSITI

TOTAL

TRAF C JOBSITI ΤΟΤΑΙ

TRAF C JOBSITI

ΤΟΤΑΙ

\*\*\*\* JOBSITI

TOTAL

JOB SIT TOTAL

MOBILIZATION	L SUM
JOB SITE	1
TOTAL	1

CONT & PROT STD 701422	EACH
ΓE	1
AL	1

CONT & PROT STD 701411	EACH 3
AL	3

CONT & PROT STD 701451	L. SUM
TE	1
AL	1

SPEED DISPLAY TRAILER	CAL MO
TE	1
AL	1

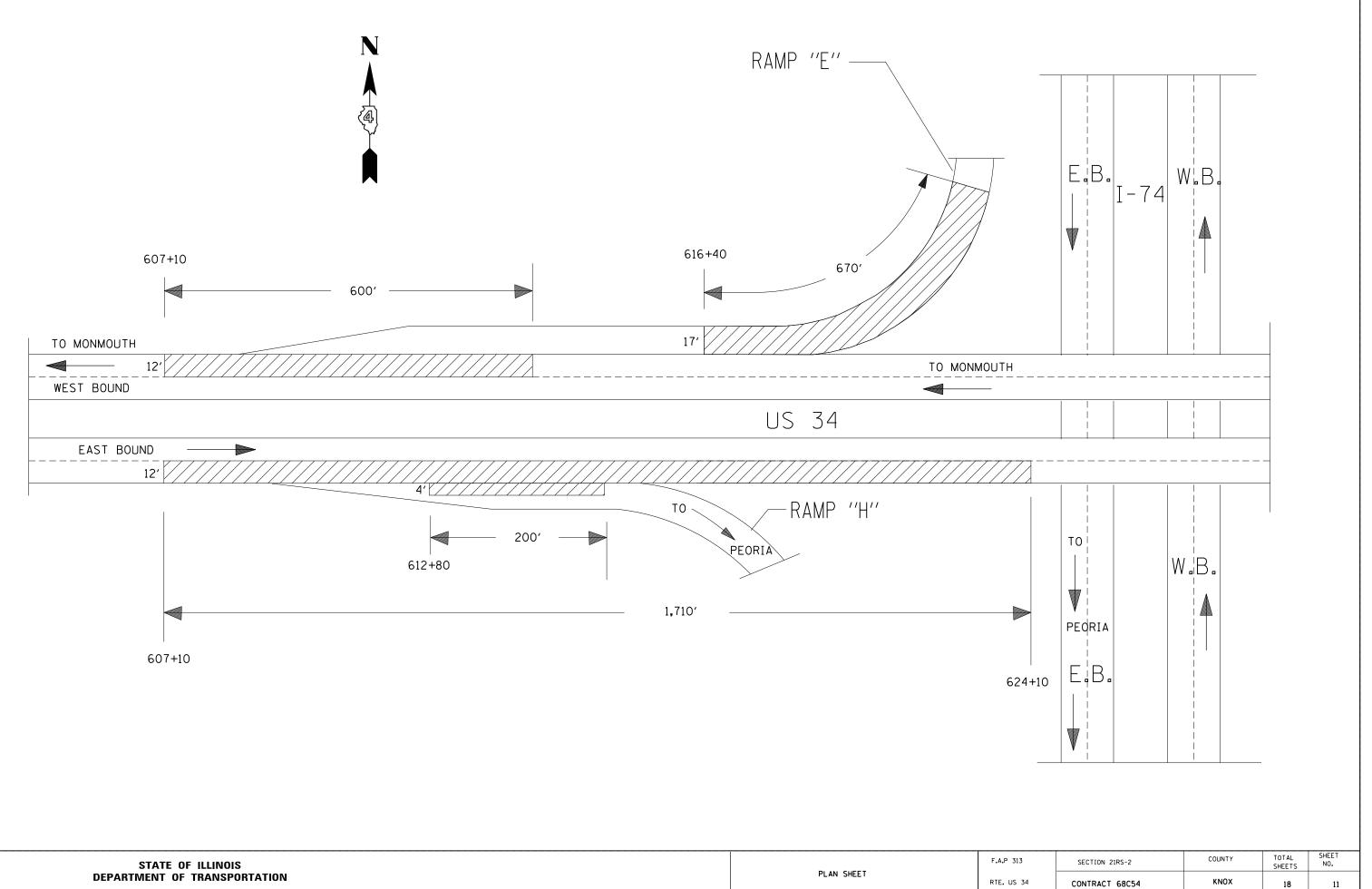
# \*\*\*\* use 2 trailers for 15 days each for the total of 1 cal month

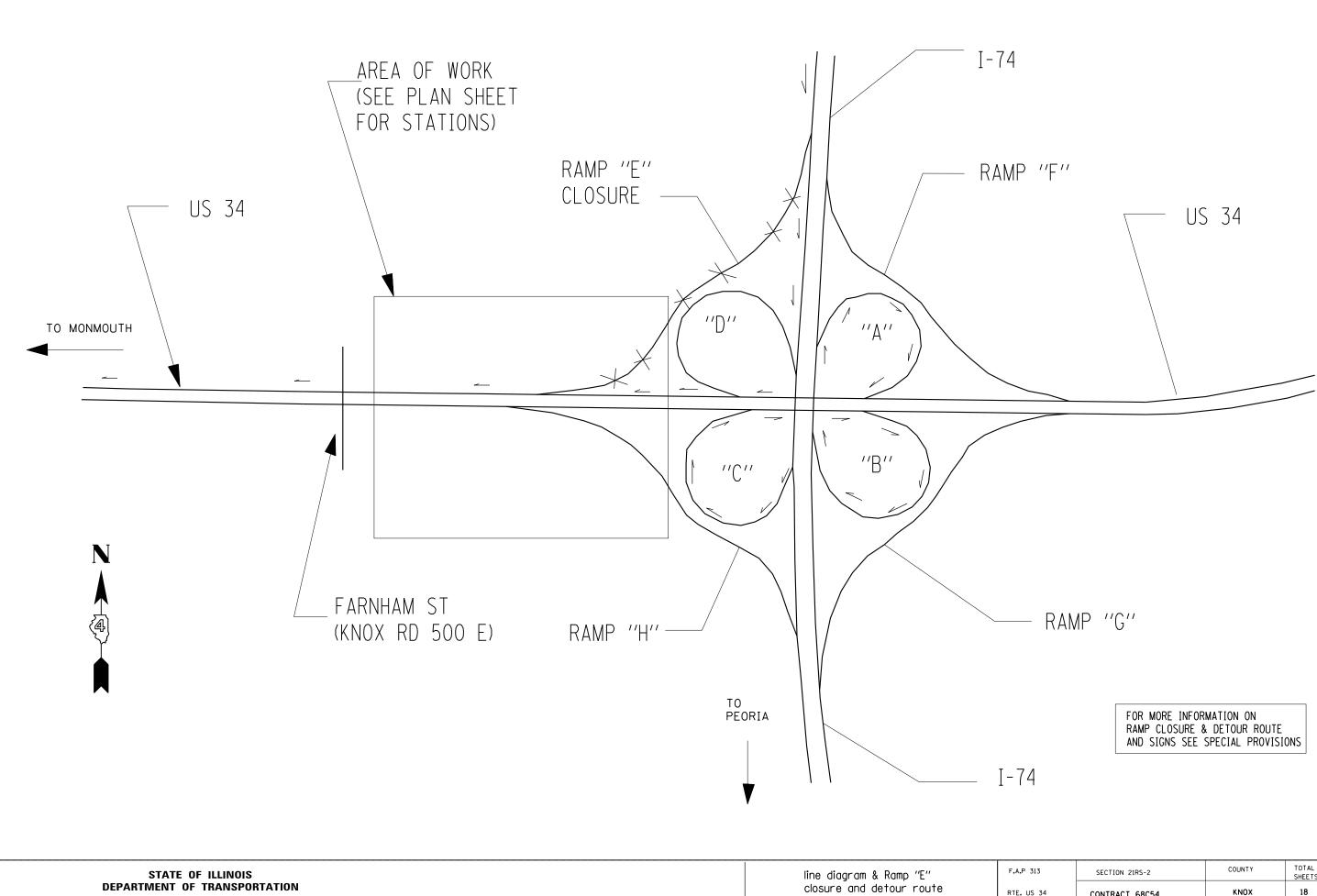
*****CHANGEABLE MESSAGE SIGN	CAL DA
JOB SITE	15
TOTAL	15

\*\*\*\*\* use 3 signs 5 days each for the total of 15 calender days

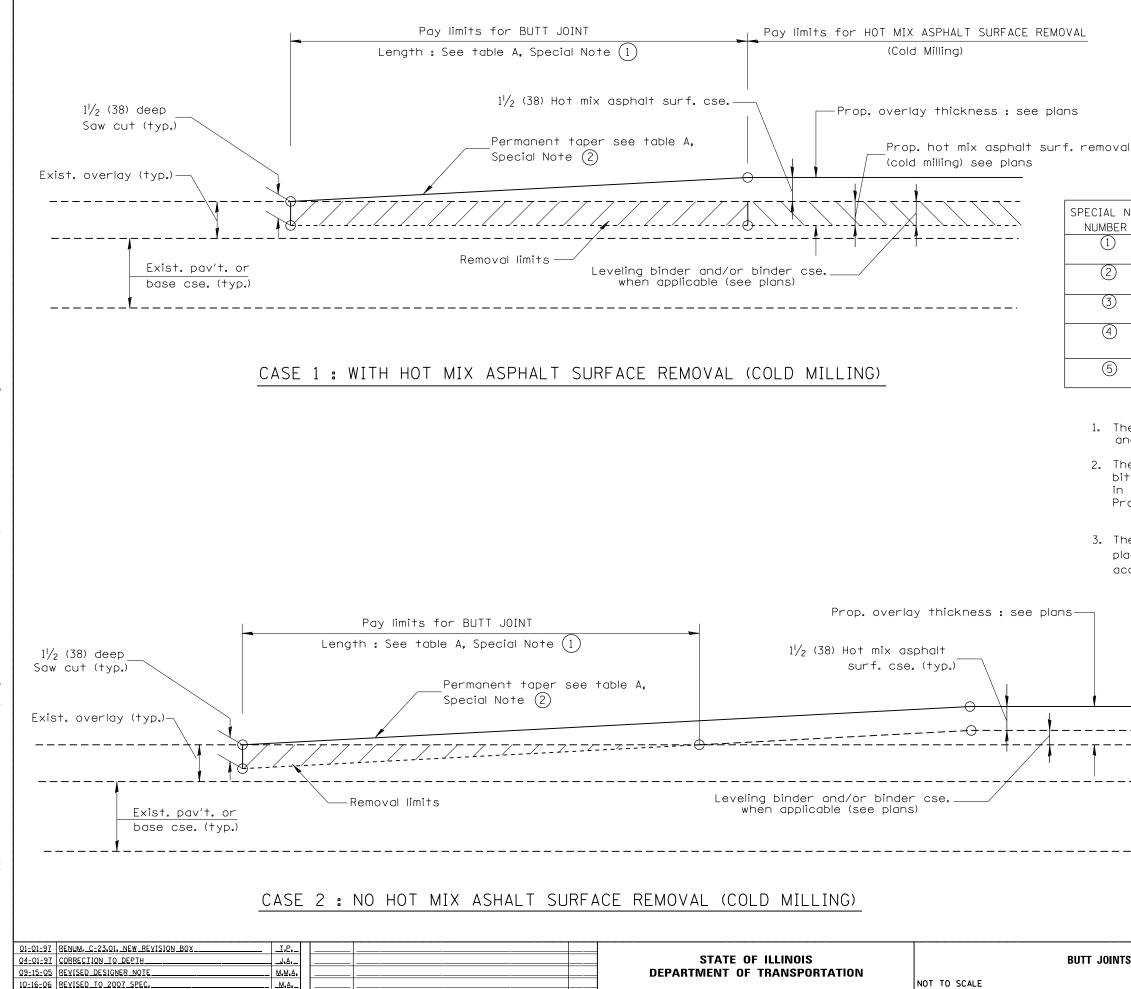
CONT & PROT (SPECIAL)	L. SUM
TE	1
AL	1

F.A.P 313	SECTION 21RS-2	COUNTY	TOTAL SHEETS	SHEET NO.
RTE. US 34	CONTRACT 68C54	KNOX	18	10





F.A.P 313	SECTION 21RS-2	COUNTY	TOTAL SHEETS	SHEET NO.
RTE. US 34	CONTRACT 68C54	клох	18	12



### TABLE A

### (LENGTHS AND TAPER RATES)

ELEMENT	MAINLINE INTERSTATES &	ALL OTHERS
LENGIH OF	60′(18.0 m)	30′(9 <b>.</b> 0 m)
BUTT JOINT		
PERMANENT	1:480	1:240
TAPER RATE		
TEMPORARY RAMP	1:80	1:40
TAPER RATE		
TEMPORARY	10′(3.0 m)	5′(1.5 m)
RAMP LENGTH		
LENGTH OF	10′(3 0 m)	10′(3 <b>.</b> 0 m)
BUTT JOINT	10 (3.0 m)	10(3.0 m)
	LENGTH OF BUTT JOINT PERMANENT TAPER RATE TEMPORARY RAMP TAPER RATE TEMPORARY RAMP LENGTH LENGTH OF	4-LANE EXPRESSWAYSLENGTH OF60'(18.0 m)BUTT JOINT

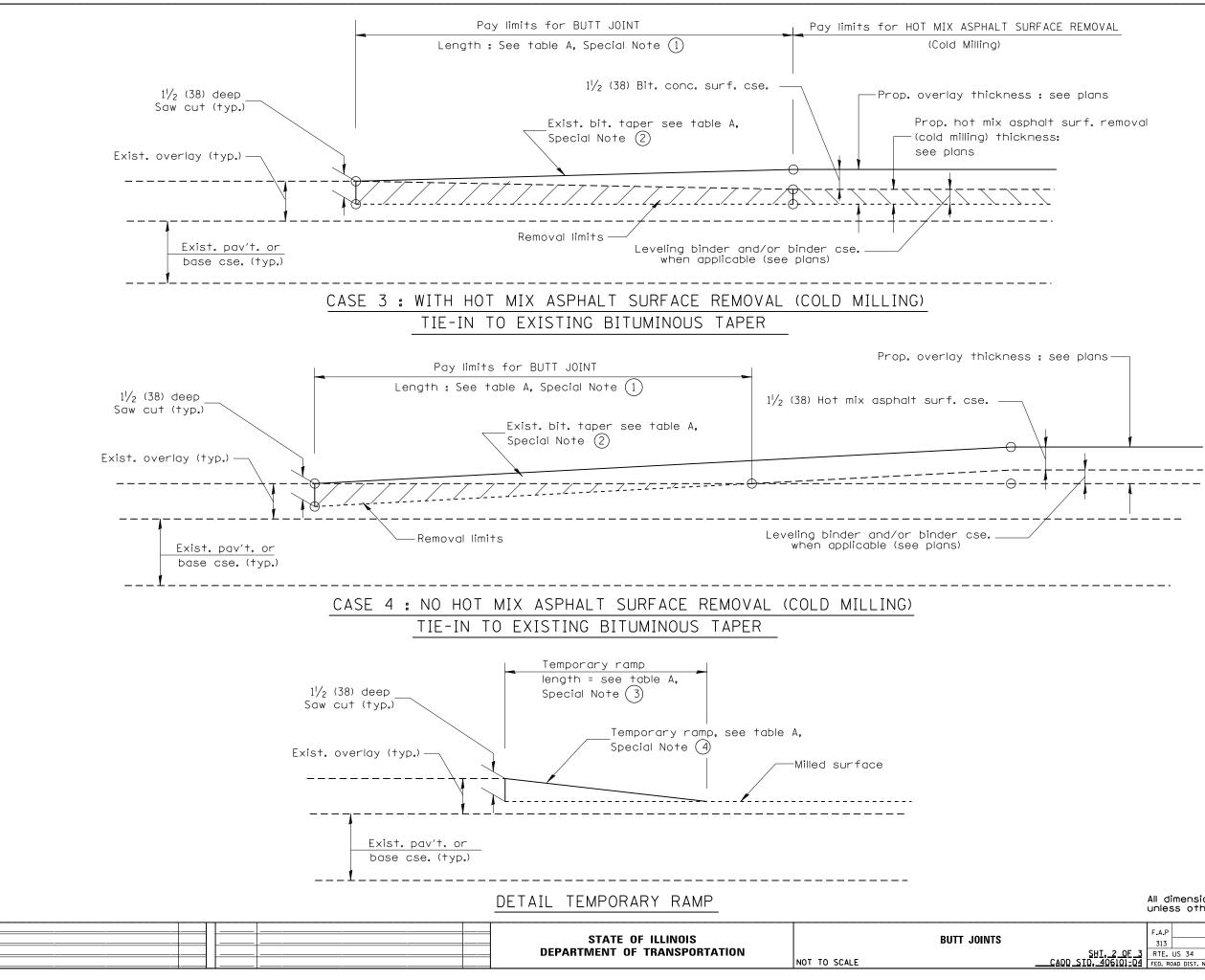
### GENERAL NOTES

1. The work shall be done in accordance with Article 406.08 and the Special Provision for Butt Joints.

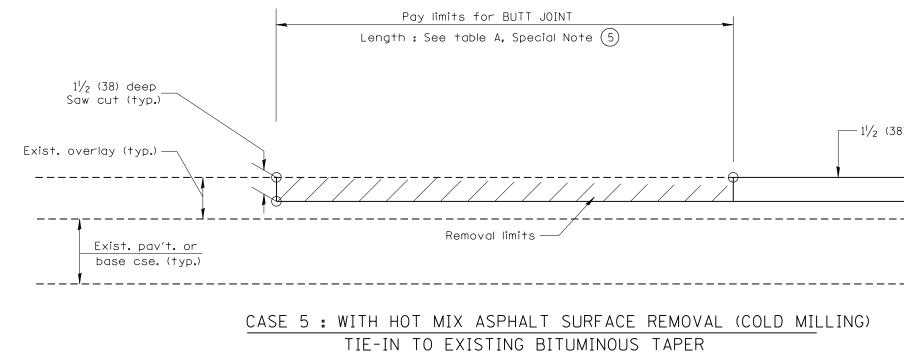
2. The pavement surface to be removed may be either bituminous or P.C. concrete. The work shall be performed in accordance with Article 440.04 and the Special Provisions for Butt Joints.

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.

		F.A.P	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.		
NTS	rs		21RS-2	KNOX	18	13		
	<u>SHT, 1 OF 3</u>	RTE.	US 34	CONTRACT	NO. 6	68C54		
	<u>CADD_SID, 406101-D4</u>	FED. ROAD DIST. NO ILLINOIS FED. AID PROJECT						



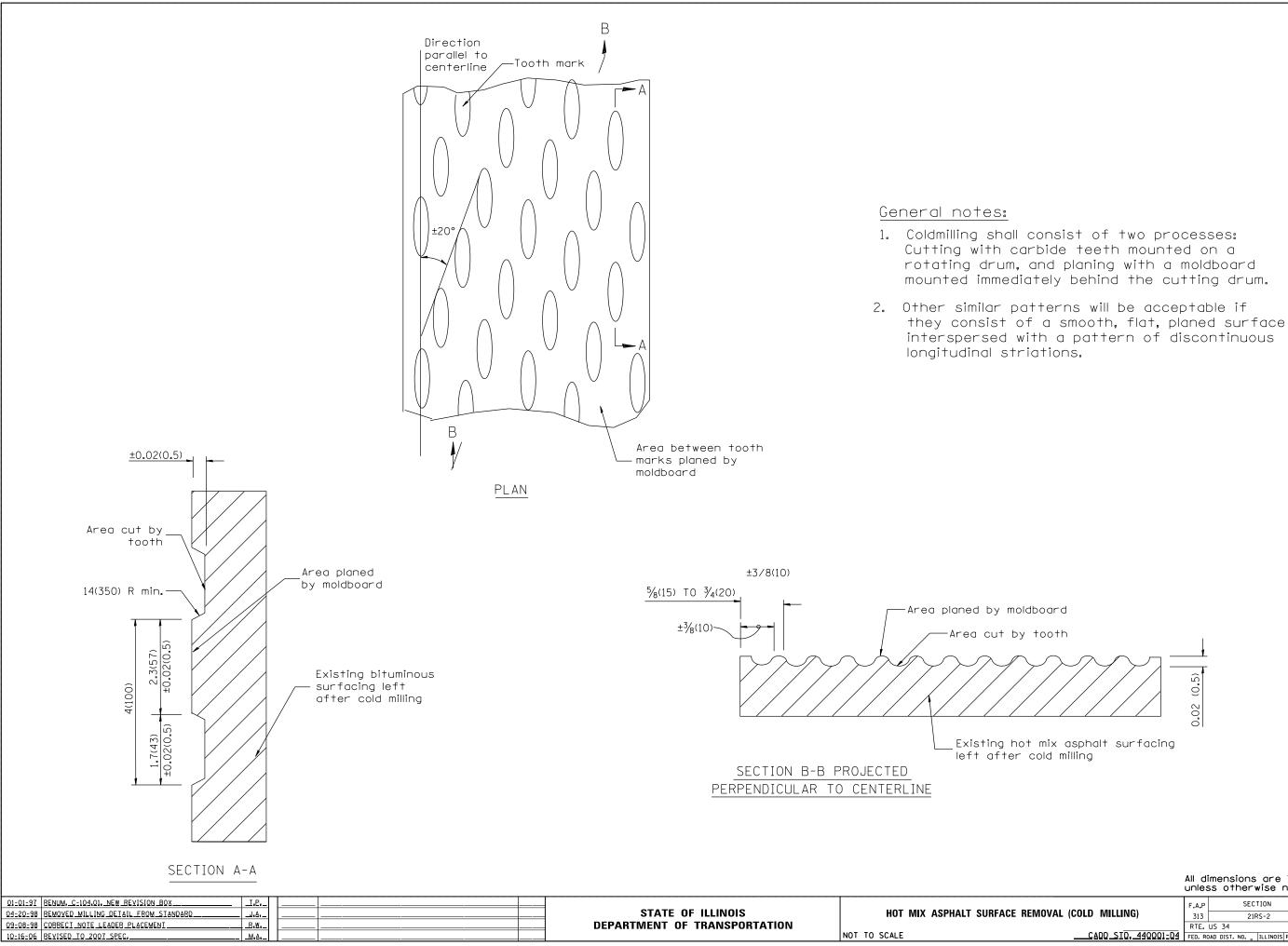
	F.A.	.P SEC	CTION	COUNTY	TOTAL SHEETS	SHEET NO.
INTS	313	3 21	RS-2	KNOX	18	14
		E. US 34		CONTRACT	F NO. 6	58C54
<u> </u>	ID. 406101-D4 FED.	ROAD DIST. NO.	ILLINOIS FED. A	ID PROJECT		



 		 	STATE OF ILLINOIS		BUTT JOIN
 	 		DEPARTMENT OF TRANSPORTATION		
 				NOT TO SCALE	

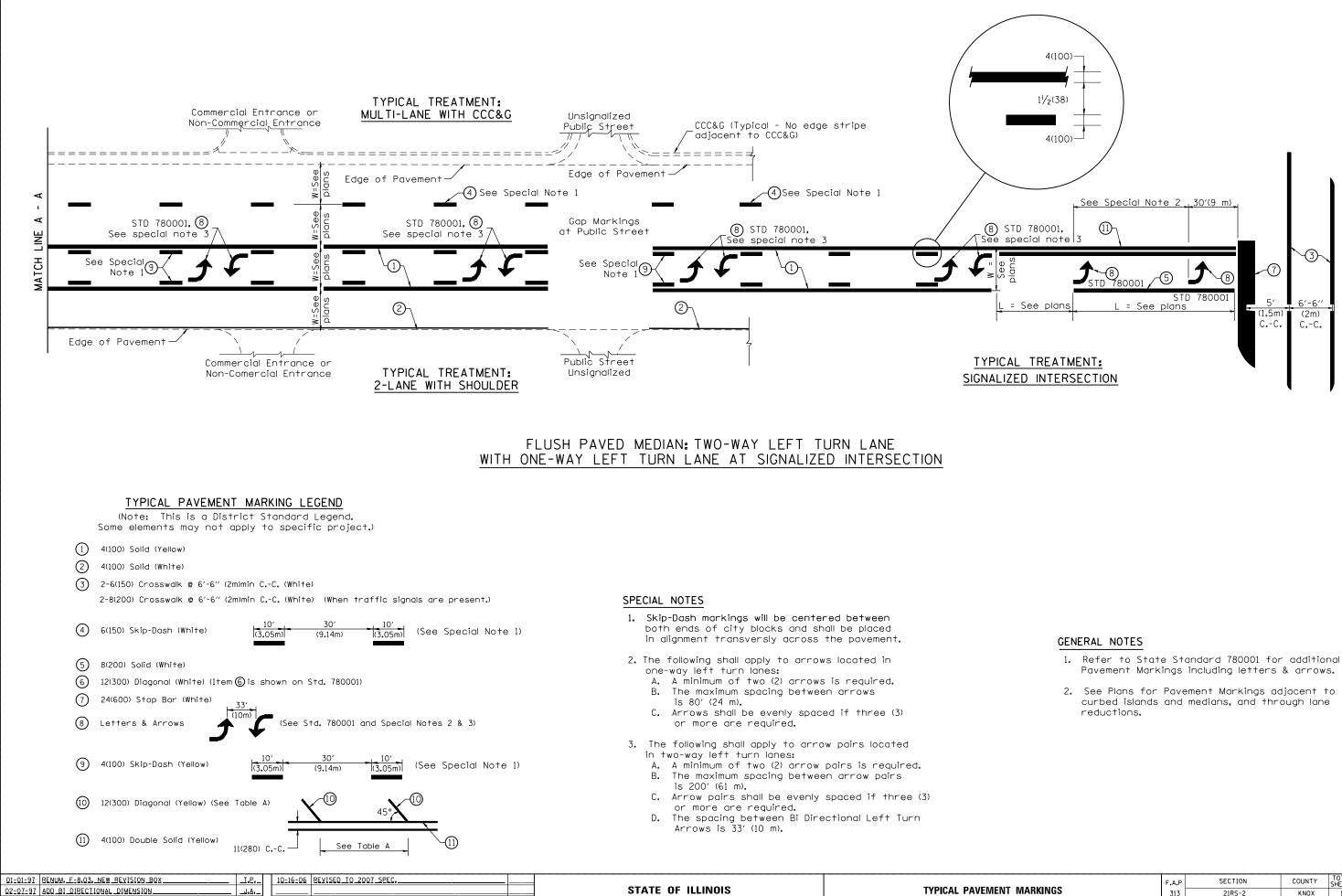
 $-11/_2$  (38) Hot mix asph. surf. cse

		F.A.P	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
INTS		313	21RS-2	KNOX	18	15
	<u>SHT, 3 OF 3</u>	RTE.	US 34	CONTRAC	T NO. 6	58C54
	<u>CADD_SID, 406101-D4</u>	FED. RC	AD DIST. NO ILLINOIS FED. A	D PROJECT		



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

	FED. R	UAD DIST.	NU	ILLINUIS	FED. A	D PROJECT		
<u>CADD_SID, 440001-D4</u>	550 0			IL INOIC	FF0 41	0.000.007		
	RTE.	US 34				CONTRAC	T NO.	58C54
EMOVAL (COLD MILLING)			21F	RS-2		KNOX	18	16
			SEC	TION		COUNTY	TOTAL SHEETS	SHEET NO.



NOTES

DESIGNER

10-97 CORRECT BI DIRECTIONAL DIMENSION

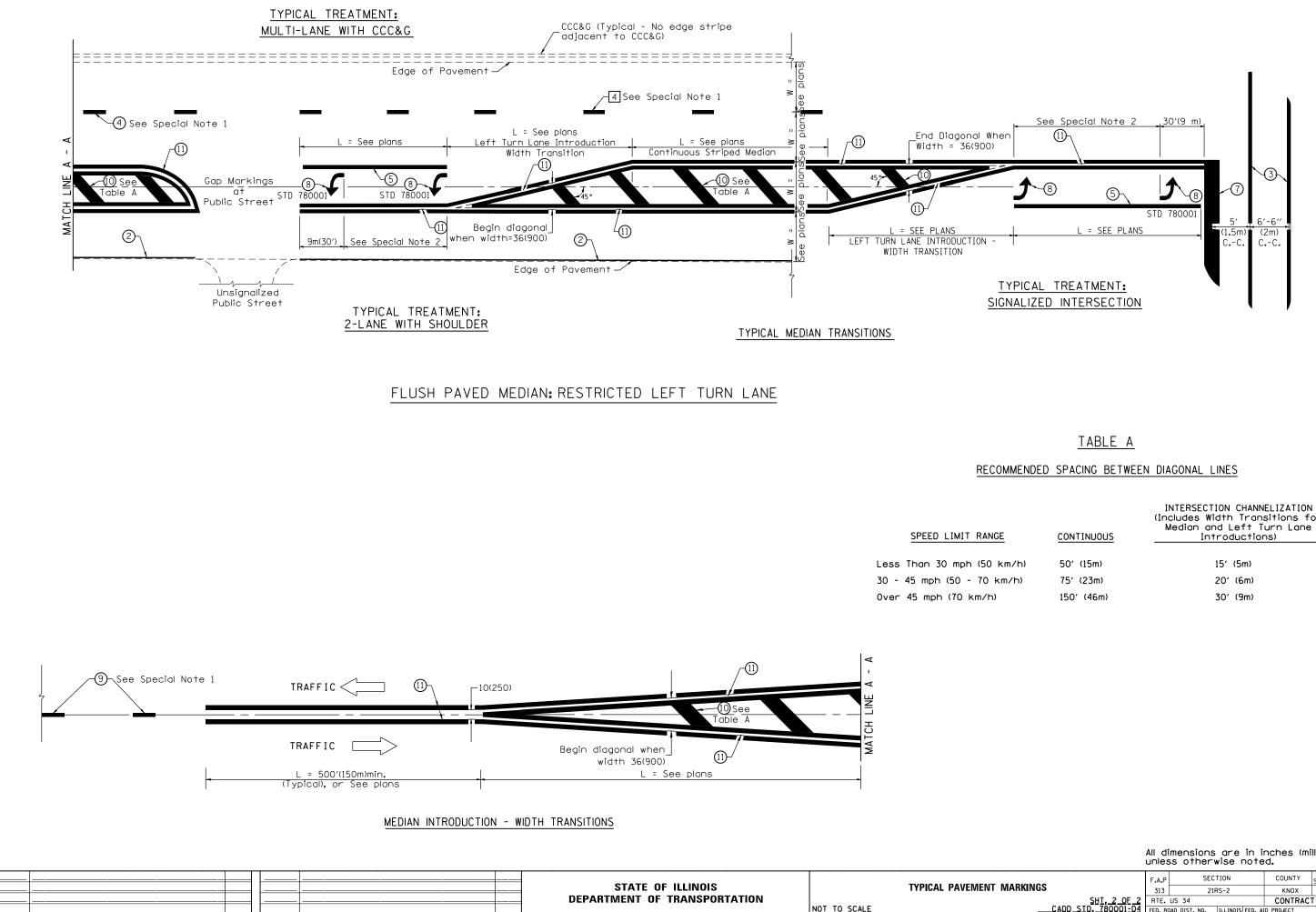
08-02 ADD\_CROSSWALK\_DMNS, WITH\_T.S.

\_J.A.

M.A

STATE OF ILLINOIS TYPICAL PAVEMENT **DEPARTMENT OF TRANSPORTATION** NOT TO SCALE

					TOTAL	0
IT MARKINGS		SEC	TION	COUNTY	TOTAL SHEETS	SHEET NO.
		21F	RS-2	KNOX	18	17
<u>SHT, 1 OF 2</u>	RTE.	US 34		CONTRACT	T NO. 6	58C54
<u>CADD_SID, 780001-D4</u>	FED. RC	DAD DIST. NO	ILLINOIS FED. AI	D PROJECT		



NGE	CONTINUOUS	(Includes Width Transitions for Median and Left Turn Lane Introductions)
) km/h)	50' (15m)	15′ (5m)
km/h)	75' (23m)	20' (6m)
h)	150' (46m)	30' (9m)

T MARKINGS			SEC	TION		COUNTY	TOTAL SHEETS	SHEET NO.
			21	RS-2		KNOX	18	18
<u>SHT, 2 OF 2</u>	RTE.	US 34				CONTRAC	T NO. (	68C54
<u>CADD_SID, 780001-D4</u>	FED. RC	AD DIST.	NO	ILLINOIS	FED. A	ID PROJECT		