

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

PROPOSED HIGHWAY PLANS

FAP ROUTE 782 (IL 1)
SECTION (28-3,110,100)RS-2

RESURFACING
WHITE COUNTY

C-99-011-15

FOR INDEX OF SHEETS, SEE SHEET NO. 2

FOR SUMMARY OF QUANTITIES, SEE SHEET NO. 4-6

TRAFFIC DATA

IL 1 TRAFFIC DATA

2013 ADT = 2,100 WITH 18.1% TRUCKS

TOWNSHIPS

INDIAN CREEK

STATION EQUATIONS

STA. 50+13.0 BK = STA. 50+84.3 AH

STA. 83+77.1 BK = STA. 84+46.6 AH

STA. 211+73.8 BK = STA. 212+82.0 AH

OMISSIONS

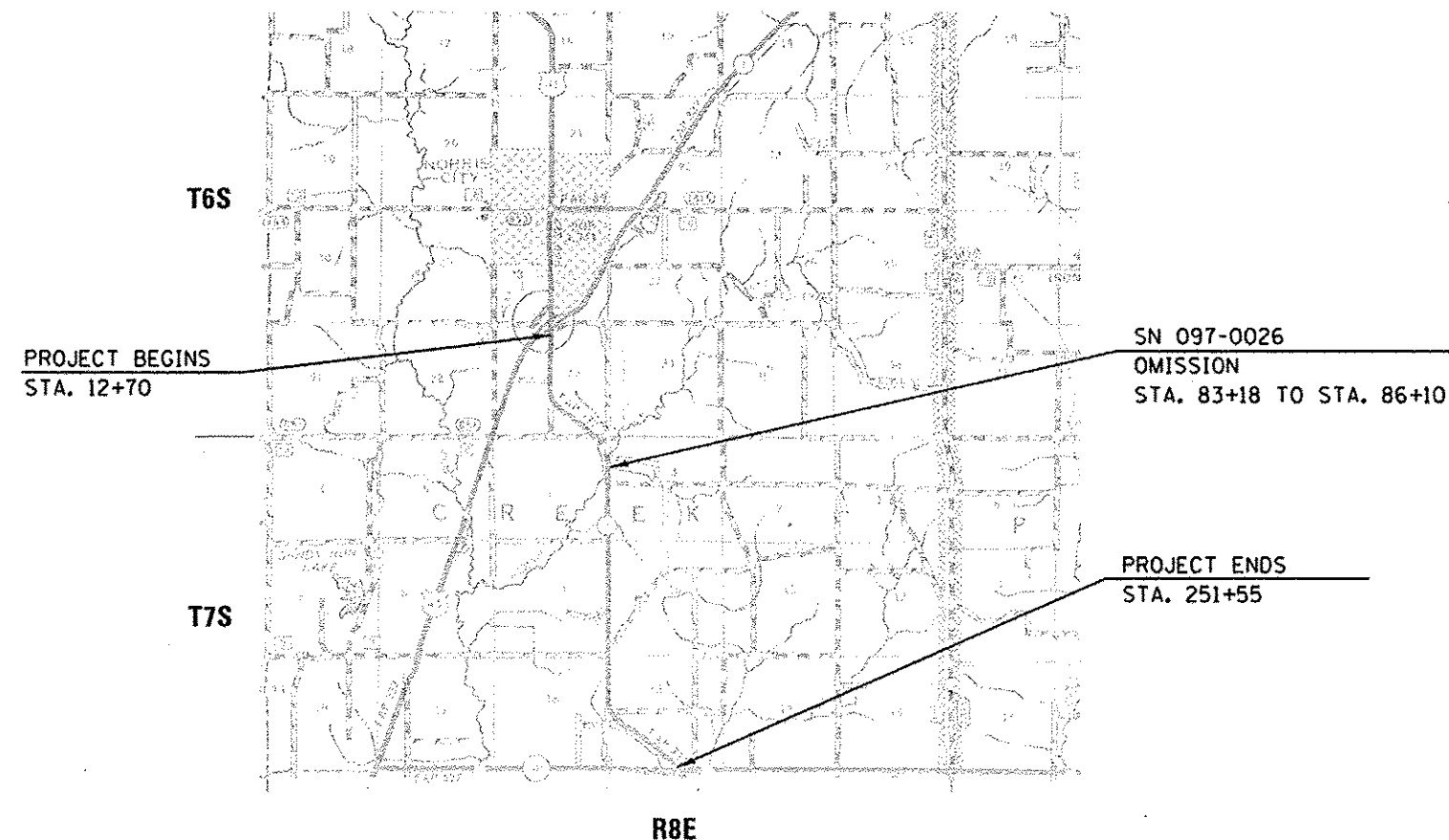
STA. 83+18 TO STA. 86+10 (SN 097-0026)

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: SUSAN POE
DESIGN ENGINEER: JAY KRANZ

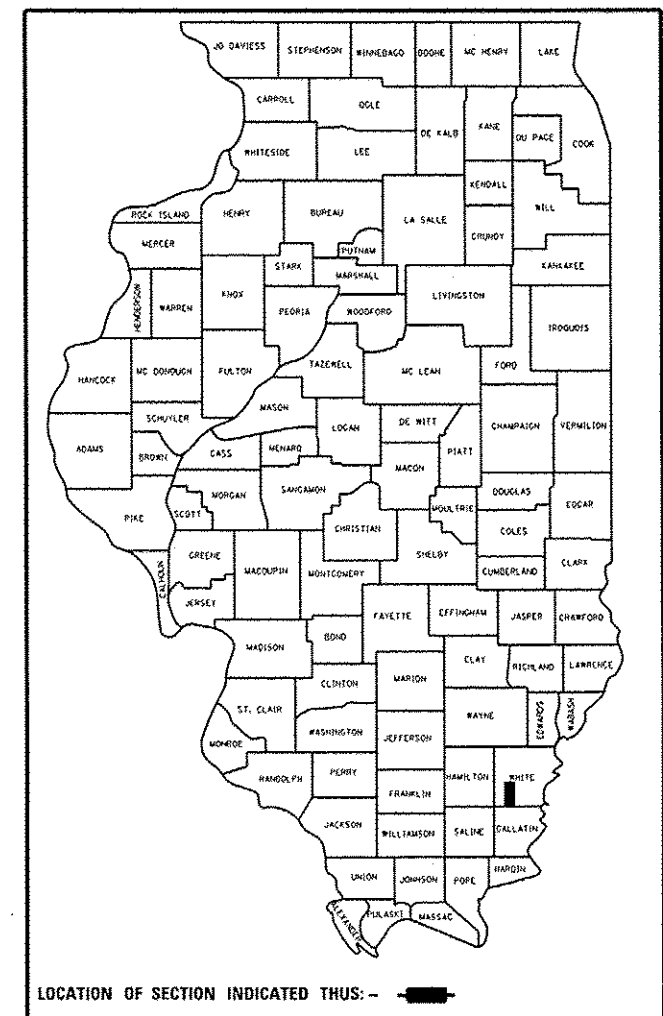
CONTRACT NO. 78447



GROSS LENGTH = 23,636.0 FT. = 4.48 MILE
NET LENGTH = 23,344.0 FT. = 4.42 MILE

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
782	(28-3,110,100)RS-2	WHITE	22	1
		ILLINOIS	CONTRACT NO. 78447	

D-99-007-15



LOCATION OF SECTION INDICATED THUS: —

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED Oct 17 20 14
Jeffrey L. Keen
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER
Dec 18 20 14
John D. Baranzelli, P.E.
ENGINEER OF DESIGN AND ENVIRONMENT
Dec 18 20 14
Emmett Osman, P.E.
DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

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OF THE STATE OF ILLINOIS

INDEX OF SHEETS






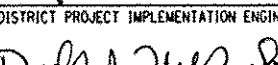
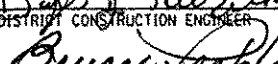
SHEET NO.	DESCRIPTION
1	COVER SHEET
2	INDEX OF SHEETS, STANDARDS, MTD TABLE
3	GENERAL NOTES, MIXTURE REQUIREMENTS, COMMITMENTS
4 - 6	SUMMARY OF QUANTITIES
7 - 9	TYPICAL SECTIONS
10 - 15	SCHEDULES OF QUANTITIES
16	EXISTING CURVE DATA
17	DETAIL: BUTT JOINTS
18	DETAIL: HMA TRANSITIONS
19	DETAIL: SIDE ROAD DETAILS
20	DETAIL: ENTRANCE DETAILS
21	DETAIL: PAVEMENT MARKINGS
22	DETAIL: TEMP HMA TRANSITIONS, UNEVEN LANES SIGN, ROUGH GROOVED SURFACE SIGN

STANDARDS

000001-06	STANDARD SYMBOLS, ABBREVIATIONS, AND PATTERNS
001006	DECIMAL OF AN INCH AND OF A FOOT
406201-01	MAILBOX TURNOUT
442201-03	CLASS C AND D PATCHES
482011-03	HMA SHOULDER STRIPS/SHOULDERS WITH RESURFACING
701001-02	OFF-ROAD OPERATIONS, 2L, 2W, MORE THAN 15' AWAY
701006-05	OFF-ROAD OPERATIONS, 2L, 2W, 15' TO 24" FROM PAVEMENT EDGE
701301-04	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
701306-03	LANE CLOSURE, 2L, 2W, SLOW MOVING OPERATIONS DAY ONLY, FOR SPEEDS > 45MPH
701311-03	LANES CLOSURE, 2L, 2W, MOVING OPERATIONS - DAY ONLY
701336-06	LANE CLOSURE, 2L, 2W, WORK AREAS IN SERIES, FOR SPEEDS > 45MPH
701901-04	TRAFFIC CONTROL DEVICES
780001-05	TYPICAL PAVEMENT MARKINGS
781001-03	TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS

MTD CROSSING RESTRICTIONS TABLE

SN & CENTERLINE STATION ROUTE IL 145	EXISTING FILL HEIGHT OVER BOX CULVERT	THICKNESS OF EXISTING PAVEMENT OVER BOX CULVERT	MTD CROSSING RESTRICTIONS
	FOOT	FOOT	
SN097-0026 STA. 85+28.			PENDING
SN097-7033 STA. 24+44.	1. 90	1. 23	PENDING
SN097-7032 STA. 666+50.	2. 00	1. 23	PENDING
SN097-7031 STA. 681+28.	1. 50	1. 23	PENDING
SN097-7029 STA. 708+60.	5. 00	0. 96	LOADED

Prepared By:	 DISTRICT STUDIES & PLANS ENGINEER
Examined By:	 DISTRICT LAND ACQUISITION ENGINEER
Examined By:	 DISTRICT PROGRAM DEVELOPMENT ENGINEER
Examined By:	 DISTRICT OPERATIONS ENGINEER
Examined By:	 DISTRICT PROJECT IMPLEMENTATION ENGINEER
Examined By:	 DISTRICT CONSTRUCTION ENGINEER
Examined By:	 DISTRICT MATERIALS ENGINEER

GENERAL NOTES

FACTORS USED FOR ESTIMATING PLAN QUANTITIES ARE AS FOLLOWS AND SHALL NOT BE USED FOR THE BASIS OF FINAL QUANTITIES:

ALL HOT- MIX ASPHALT	2.016 TONS/CU. YD.
ALL AGGREGATE	2.05 TONS/CU. YD.
BITUMINOUS MATERIALS:	
ON PAVEMENT	0.05 LB/SQ. FT.
ON AGGREGATE SURFACE	0.25 LB./SQ. FT.
AGGREGATE (PRIME COAT)	0.0015 TONS/SQ. YD.
RIPRAP	1.50 TONS/CU. YD.

THE ALGEBRAIC DIFFERENCE BETWEEN THE PAVEMENT AND SHOULDER SLOPES SHALL NOT EXCEED 8%. THE SHOULDER ON THE OUTSIDE OF SUPERELEVATED CURVES SHALL BE FLATTENED ACCORDINGLY.

STATIONING SHOWN IN THE SCHEDULES IS BASED ON STAMPED STATIONS IN THE EXISTING PAVEMENT AND FROM OLD PLANS. MINOR ADJUSTMENTS MAY BE REQUIRED AS DIRECTED BY THE ENGINEER.

THE THICKNESS OF HOT MIX ASPHALT MIXTURE SHOWN ON THE PLANS IS THE NOMINAL THICKNESS. DEVIATIONS FROM THE NOMINAL THICKNESS WILL BE PERMITTED WHEN SUCH DEVIATIONS OCCUR DUE TO IRREGULARITIES IN THE EXISTING SURFACE OR BASE ON WHICH THE HOT MIX ASPHALT MIXTURE IS PLACED.

THE QUANTITY OF SHORT TERM PAVEMENT MARKING SHOWN IN THE PLANS IS BASED ON ONE APPLICATION EACH FOR THE SURFACE REMOVAL, SURFACE COURSE, AND LEVELING BINDER.

THE CONTRACTOR SHALL STAMP STATIONING IN THE PROPOSED HOT MIX ASPHALT SURFACE AT 300 FT. INTERVALS ON ALTERNATING SIDES OF THE PAVEMENT AND AS DIRECTED BY THE ENGINEER. THE STATION SYMBOL STAMPS USED SHALL BE FURNISHED BY THE CONTRACTOR. THEY SHALL BE 5.5 IN. TALL, OF A DESIGN APPROVED BY THE ENGINEER, AND SHALL REMAIN THE PROPERTY OF THE CONTRACTOR.

BITUMINOUS RESURFACING SHALL BE PLACED IN A SEQUENCE THAT WILL MINIMIZE THE TIME THE CENTERLINE EDGE IS EXPOSED TO TRAFFIC. WHEN AT THE END OF A DAY'S OPERATION THE EXPOSED CENTERLINE EDGE IS GREATER THAN 2,000 FT., THE CONTRACTOR SHALL BE REQUIRED TO PAVE IN THE ADJACENT LANE ON THE FOLLOWING WORK DAY. PRIOR TO WINTER SHUTDOWN, RESURFACING ON ADJACENT LANES IS TO BE BROUGHT UP TO THE SAME ELEVATION.

PRIOR TO PLACEMENT OF THE FINAL PAVEMENT MARKINGS THE RESIDENT ENGINEER SHOULD CONTACT THE BUREAU OF OPERATIONS AND ARRANGE FOR INSPECTION AND APPROVAL OF THE PAVEMENT MARKING LAYOUT.

ALL PAVEMENT MARKINGS SHALL BE LOCATED AND RECORDED BEFORE SURFACE REMOVAL AND/OR HOT-MIX ASPHALT PLACEMENT.

SAWCUTS REQUIRED FOR BUTT JOINTS SHALL NOT BE PAID FOR SEPERATELY BUT SHALL BE INCLUDED IN THE COST OF THE BUTT JOINT.

QUANTITIES SHOWN IN THE PLANS FOR PATCHING ARE ESTIMATES. THE ACTUAL AMOUNT OF PATCHING REQUIRED SHALL BE DETERMINED BY THE ENGINEER. PATCHING SURVEY DATE: SEPTEMBER 2014.

THERE ARE NO AVAILABLE WASTE SITES ON THE EXISTING RIGHT OF WAY WITHIN THE PROJECT LIMITS. DISPOSAL WILL BE THE RESPONSIBILITY OF THE CONTRACTOR AND WASTE MUST BE DISPOSED OF IN ACCORDANCE WITH ARTICLE 202.03 OF THE STANDARD SPECIFICATIONS

CONTRACTOR SHALL COMPLETE PATCHING PRIOR TO THE HMA SURFACE REMOVAL.

MIXTURE REQUIREMENTS

LOCATION(S):	HOT-MIX ASPHALT SURFACE COURSE, INCIDENTAL HOT-MIX ASPHALT SURFACING HOT-MIX ASPHALT SHOULDERS, TON
MIXTURE USE(S):	HOT-MIX ASPHALT SURFACE COURSE, MIX C, N70
AC/PG:	PG64-22
ABR% (MAX):	SEE SPECIAL PROVISION
DESIGN AIR VOIDS:	4.0%, 70 GYRATION DESIGN
MIXTURE COMPOSITION: (GRADATION MIXTURE)	IL-9.5MM
FRICTION AGGREGATE:	C SURFACE
QUALITY MANAGEMENT	OCP (HMA SURFACE COURSE ONLY)
PROGRAM:	QC/QA (HMA SHOULDERS; INCIDENTAL HMA)

LOCATION(S):	HOT-MIX ASPHALT LEVELING BINDER COURSE
MIXTURE USE(S):	HOT-MIX ASPHALT LEVELING BINDER, N70, IL-9.5MM FINE GRADE
AC/PG:	PG64-22
ABR% (MAX):	SEE SPECIAL PROVISION
DESIGN AIR VOIDS:	4.0%, 70 GYRATION DESIGN
MIXTURE COMPOSITION: (GRADATION MIXTURE)	IL-9.5MM FINE GRADE
FRICTION AGGREGATE:	NONE
QUALITY MANAGEMENT	OCP
PROGRAM:	

LOCATION(S):	PAVEMENT PATCHING HOT-MIX ASPHALT BINDER COURSE
MIXTURE USE(S):	HOT-MIX ASPHALT BINDER COURSE, N70, IL-19.0MM FINE GRADED
AC/PG:	PG64-22
ABR% (MAX):	SEE SPECIAL PROVISION
DESIGN AIR VOIDS:	4.0%, 70 GYRATION DESIGN
MIXTURE COMPOSITION: (GRADATION MIXTURE)	IL-19.0MM FINE GRADED
FRICTION AGGREGATE:	NONE
QUALITY MANAGEMENT	QC/QA (PATCHING; HMA BINDER COURSE)
PROGRAM:	

COMMITMENTS

NONE

FILE NAME =	USER NAME = kronzjo	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	GENERAL NOTES, MIXTURE REQUIREMENTS COMMITMENTS	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
ci:\work\pmsdot\kronzjo\2413978\7844	whiplan.dgn	DRAWN -	REVISED -			782	(28-3,110,100RS-2	WHITE	22	3	
	PLOT SCALE = 94.4444' / in.	CHECKED -	REVISED -			CONTRACT NO. 78447					
Default	PLOT DATE = 10/22/2014	DATE -	REVISED -								
SCALE:						SHEET	OF	SHEETS	STA.	TO STA.	
						ILLINOIS FED. AID PROJECT					

SUMMARY OF QUANTITIES

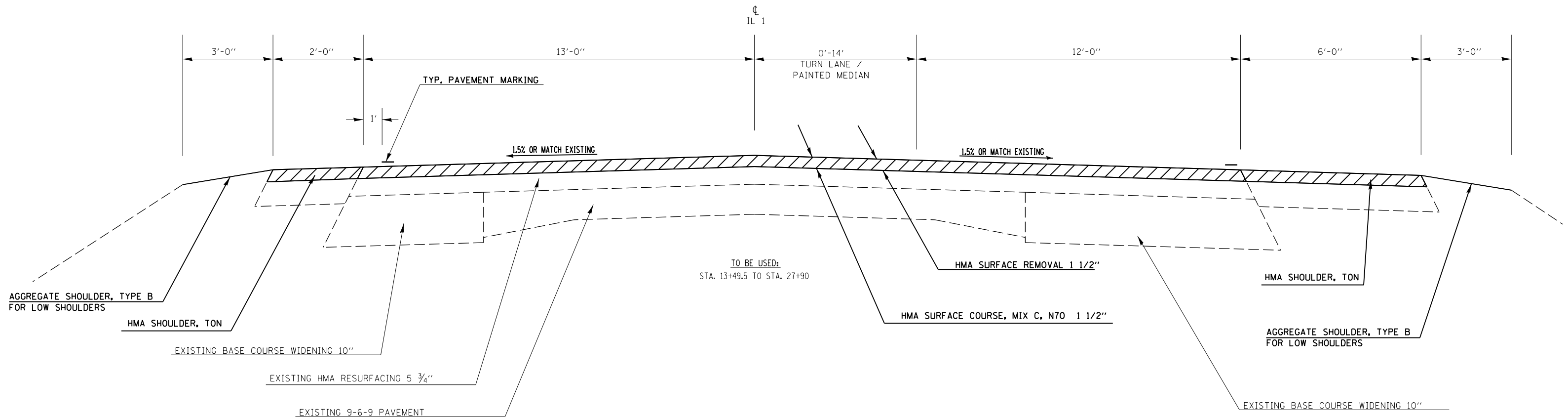
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				LOCATION:	RURAL
				ROUTE:	IL 1 (FAP 782)
					WHITE
					RESURFACING 0005
35101400	AGGREGATE BASE COURSE, TYPE B	TON	437		437
40600275	BITUMINOUS MATERIALS (PRIME COAT)	POUND	32,959		32,959
40600637	LEVELING BINDER (MACHINE METHOD), IL-9.5FG, N70	TON	2,469		2,469
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	174		174
40600985	PORTLAND CEMENT CONCRETE SURFACE REMOVAL - BUTT JOINT	SQ YD	74		74
40600990	TEMPORARY RAMP	SQ YD	56		56
40603087	HOT-MIX ASPHALT BINDER COURSE, IL-19.0 FG, N70	TON	453		453
40603315	HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N70	TON	5692		5692
40800050	INCIDENTAL HOT-MIX ASPHALT SURFACING	TON	191		191
44000151	HOT-MIX ASPHALT SURFACE REMOVAL, 1/2"	SQ YD	44985		44985
44000155	HOT-MIX ASPHALT SURFACE REMOVAL, 1 1/2"	SQ YD	7052		7052
44000158	HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/4"	SQ YD	16841		16841
44201827	CLASS D PATCHES, TYPE II, 15 INCH	SQ YD	553		553
44201831	CLASS D PATCHES, TYPE III, 15 INCH	SQ YD	78		78

SUMMARY OF QUANTITIES - CONT

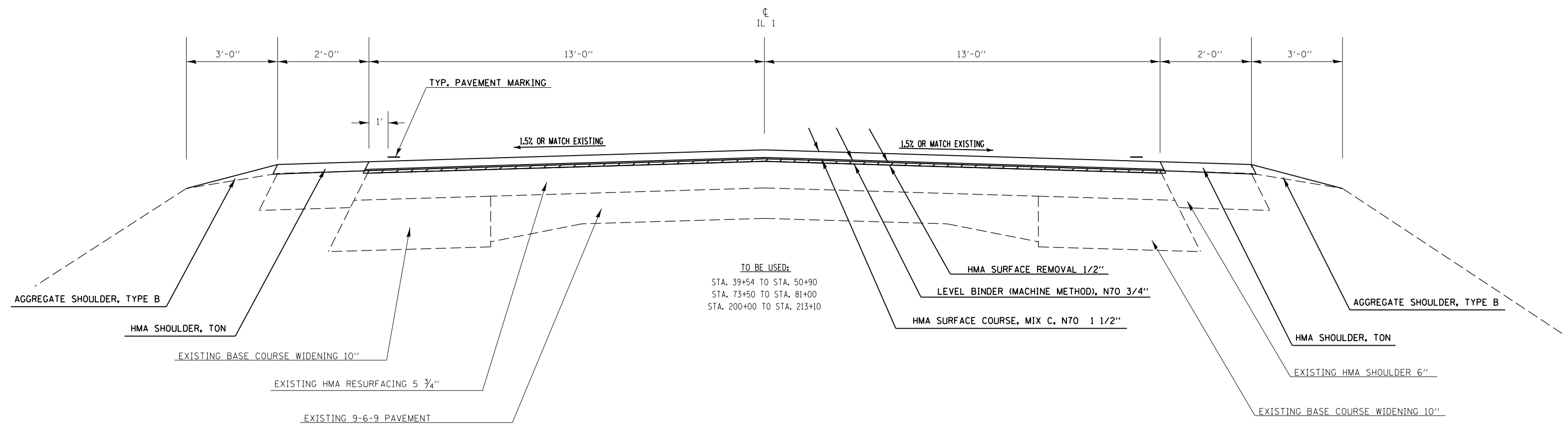
CODE NUMBER	ITEM DESCRIPTION	UNIT	TOTAL QUANTITY	FUNDING:	100% STATE
				LOCATION:	RURAL
				ROUTE:	IL 1 (FAP 782)
					WHITE RESURFACING 0005
44201833	CLASS D PATCHES, TYPE IV, 15 INCH	SQ YD	56		56
48101200	AGGREGATE SHOULDERS, TYPE B	TON	1338		1338
48203100	HOT-MIX ASPHALT SHOULDERS	TON	259		259
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	4		4
67100100	MOBILIZATION	L SUM	1		1
70100460	TRAFFIC CONTROL AND PROTECTION, STANDARD 701306	L SUM	1		1
70100600	TRAFFIC CONTROL AND PROTECTION, STANDARD 701336	L SUM	1		1
70106800	CHANGEABLE MESSAGE SIGN	CAL MO	2		2
70300100	SHORT TERM PAVEMENT MARKING	FOOT	7440		7440
70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	73607		73607
70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SQ FT	827		827
78000100	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	73		73
78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	277		277
78001110	PAINT PAVEMENT MARKING - LINE 4"	FOOT	73607		73607

3

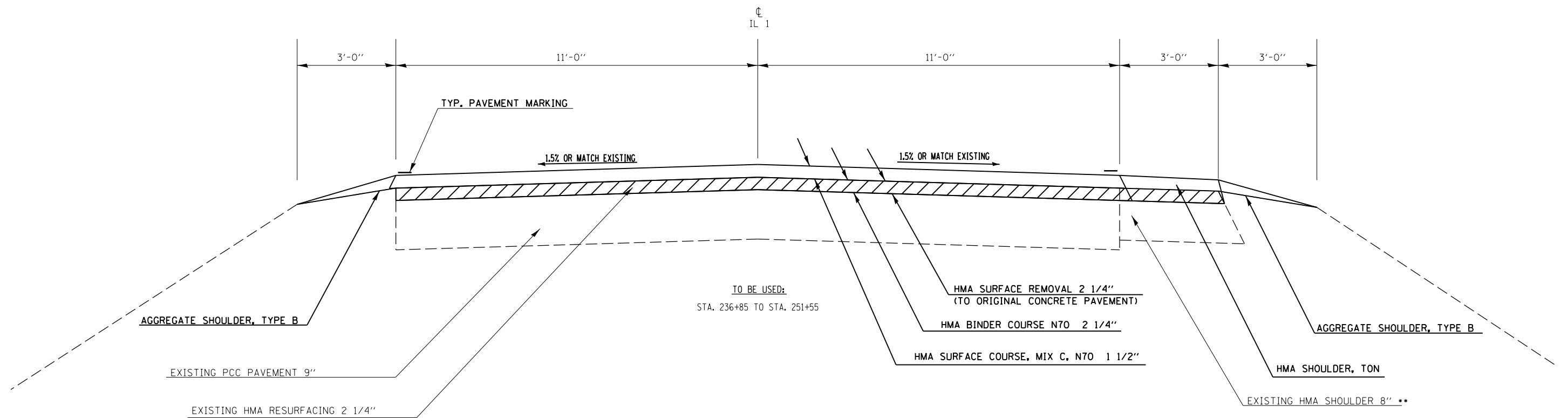
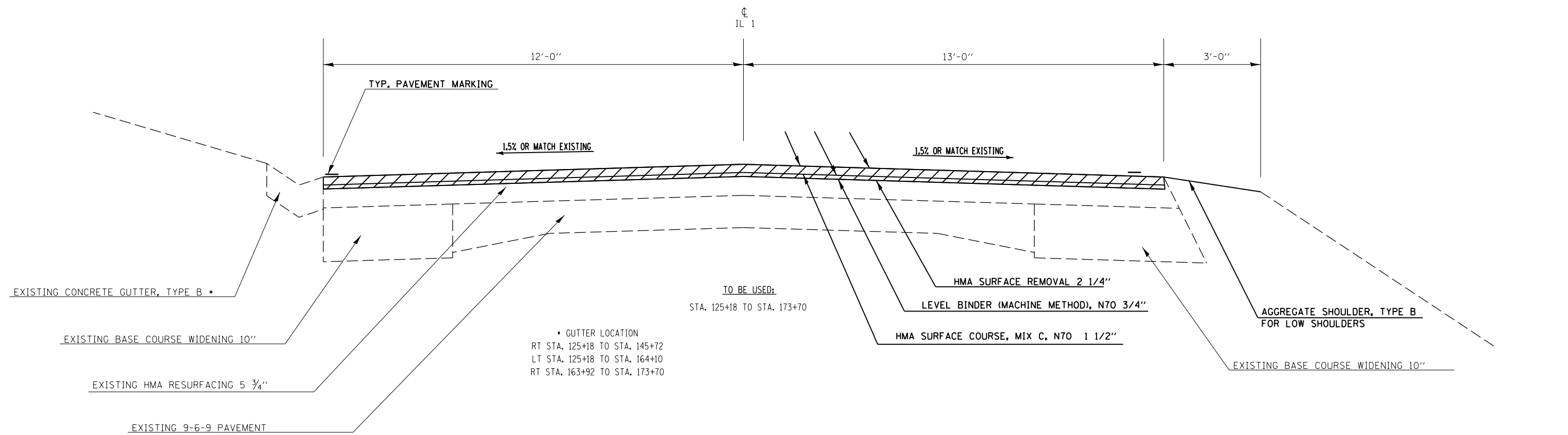
FILE NAME *	USER NAME * krenzjo	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION				SUMMARY OF QUANTITIES					F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0:\work\p\widet\krenzjo\2413970\7844\shrp\plandgn		DRAWN -	REVISED -					3 OF 3					782	(28-3.110,100)RS-2	WHITE	22	5
		CHECKED -	REVISED -										CONTRACT NO. 78447				
Defaults		DATE -	REVISED -										ILLINOIS FED. AID PROJECT				
				SCALE:		SHEET OF		SHEETS STA.		TO STA.							



FILE NAME =	USER NAME = krnzjc	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TYPICALS				F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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Default	PLOT DATE = 10/22/2014	DATE -	REVISED -		SCALE:	SHEET	OF	SHEETS	STA.	TO	STA.	ILLINOIS FED. AID PROJECT	



FILE NAME =	USER NAME = krnzjc	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TYPICALS				F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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Default	PLOT DATE = 10/22/2014	DATE -	REVISED -		SCALE:	SHEET	OF	SHEETS	STA.	TO	STA.	ILLINOIS FED. AID PROJECT	



•• SHOULDER LOCATION
RT STA. 239+64 TO STA. 241+70

FILE NAME =	USER NAME = kranzjc	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TYPICALS			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
ct\pw\work\pwidot\kranzjc\0413978\78447	-sht-plandgn	DRAWN -	REVISED -					782	(28-3,110,100)RS-2	WHITE	22	9
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	PLOT DATE = 10/22/2014	DATE -	REVISED -					ILLINOIS FED. AID PROJECT				

HMA SURFACING SCHEDULE

LOCATION: STATION TO STATION				HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N70	LEVELING BINDER (MACHINE METHOD), IL-9.5FG, N70	HOT-MIX ASPHALT BINDER COURSE, IL-19.0 FG, N70	BITUMINOUS MATERIALS (PRIME COAT)	MATERIAL TRANSFER DEVICE	HOT-MIX ASPHALT SHOULDERS	AGGREGATE SHOULDERS, TYPE B
				TON	TON	TON	POUND	TON	TON	TON
FAP 782										
IL 1										
STA 12+70.	TO	STA 13+49.5		19.3			103.4	19.3	5.2	4.6
STA 13+49.5	TO	STA 17+41.4		118.9			636.8	118.9	29.3	22.4
STA 17+41.4	TO	STA 21+83.16		160.8			861.4	160.8	33.0	25.2
STA 21+83.16	TO	STA 27+40.6		169.1			905.8	169.1	41.6	31.8
STA 27+40.6	TO	STA 27+90.		12.0			64.2	12.0	3.7	2.8
STA 27+90.	TO	STA 39+54.		283.8	142.9		1,513.2	426.7		77.4
STA 39+54.	TO	STA 50+13. BK		258.2	130.0		1,376.7	388.2	46.1	70.4
STA 50+84.3 AH	TO	STA 50+90.		1.4	0.7		7.4	2.1	0.2	0.4
STA 50+90.	TO	STA 73+50.		551.1	277.5		2,938.0	828.6		150.2
STA 73+50.	TO	STA 81+00.		182.9	92.1		975.0	275.0	32.7	49.8
STA 81+00.	TO	STA 83+18.		53.2	26.8		283.4	80.0		14.4
STA 86+10.	TO	STA 125+18.		952.9	479.9		5,080.4	1,432.8		259.6
STA 125+18.	TO	STA 145+72.		460.1	230.0		2,464.8	690.1		
STA 145+72.	TO	STA 163+92.		424.7	212.3		2,275.0	637.0		51.8
STA 163+92.	TO	STA 164+10.		4.0	2.0		21.6	6.0		
STA 164+10.	TO	STA 173+70.		224.0	112.0		1,200.0	336.0		27.3
STA 173+70.	TO	STA 200+00.		641.3	322.9		3,419.0	964.2		174.8
STA 200+00.	TO	STA 211+73.8 BK		286.2	144.1		1,525.9	430.3	51.1	78.0
STA 212+82. AH	TO	STA 213+10.		6.8	3.4		36.4	10.2	1.2	1.8
STA 213+10.	TO	STA 236+85.		579.1	292.4		3,087.5	871.5		157.8
STA 236+85.	TO	STA 239+64.		57.3		85.9	306.9	57.3		15.8
STA 239+64.	TO	STA 241+70.		42.3		63.4	226.6	42.3	14.9	11.8
STA 241+70.	TO	STA 251+55.		202.6		303.7	1,083.6	202.6		56.9
SCHEDULE TOTALS:				5,692.0	2,469.0	453.0	30,393.0	8,161.0	259.0	1,285.0
SIDE ROAD & ENTRANCE SCHEDULE							2,566.0			53.0
IMPROVEMENT TOTAL:				5,692.0	2,469.0	453.0	32,959.0	8,161.0	259.0	1,338.0

SURFACE REMOVAL SCHEDULE

LOCATION: STATION TO STATION	HOT-MIX ASPHALT SURFACE REMOVAL, 1/2"	HOT-MIX ASPHALT SURFACE REMOVAL, 1 1/2"	HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/4"	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	PCC SURFACE REMOVAL - BUTT JOINT	TEMPORARY RAMP
	SQ YD	SQ YD	SQ YD	SQ YD	SQ YD	SQ YD
FAP 782						
IL 1						
STA 12+70.						14.4
STA 12+70. TO STA 13+49.5		291.5				
STA 13+49.5 TO STA 17+41.4		1,763.6				
STA 17+41.4 TO STA 21+83.16		2,307.0				
STA 21+83.16 TO STA 27+40.6		2,508.5				
STA 27+40.6 TO STA 27+90.		181.4				
STA 27+90. TO STA 50+13. BK	6,422.0					
STA 50+84.3 AH TO STA 83+18. BK	9,341.8					
STA 83+18.				87.0		14.4
STA 86+10.				87.0		14.4
STA 86+10. TO STA 125+18.	11,289.8					
STA 125+18. TO STA 145+72.			5,477.3			
STA 145+72. TO STA 163+92.			5,055.6			
STA 163+92. TO STA 164+10.			48.0			
STA 164+10. TO STA 173+70.			2,666.7			
STA 173+70. TO STA 211+73.8 BK	10,988.8					
STA 212+82. AH TO STA 236+85.	6,942.6					
STA 236+85. TO STA 251+55.			3,593.4			
STA 251+55.					74.0	12.8
SCHEDULE TOTALS:	44,985.0	7,052.0	16,841.0	174.0	74.0	56.0
IMPROVEMENT TOTAL:	44,985.0	7,052.0	16,841.0	174.0	74.0	56.0

ENTRANCE SCHEDULE

LOCATION: STATION TO STATION					NUMBER OF LOCATIONS	EXISTING SURFACE MATERIAL	INCIDENTAL HOT-MIX ASPHALT SURFACING	BITUMINOUS MATERIALS (PRIME COAT)	AGGREGATE SHOULDERS, TYPE B	AGGREGATE BASE COURSE, TYPE B
							TON	POUND	TON	TON
FAP 782										
IL 1										
ENTRANCES										
			PRIVATE		20	AGGREGATE	20.9	96	10.6	
			PRIVATE		3	PAVED	3.1	14.4		
			COMMERCIAL		4	AGGREGATE	6.1	28	3.1	
			COMMERCIAL		1	PAVED	1.5	7		
			FIELD		6				6.4	
			MAILBOX TURNOUT		7				32.9	
SIDE ROADS										
RT	STA	35+96.	550N			OIL & CHIP	8.2	125.0		21.3
RT	STA	43+83.	250E			OIL & CHIP	13.8	203.1		36.1
RT	STA	72+90.	500N			OIL & CHIP	13.7	206.3		35.7
LT	STA	73+00.	500N			AGGREGATE	6.1	93.8		19
LT	STA	81+00.	300E			AGGREGATE	16.3	249.4		50.5
LT	STA	97+55.	450N			OIL & CHIP	15.3	235.0		39.5
RT	STA	124+35.	400N			AGGREGATE	8.3	127.5		25.8
LT	STA	171+85.	320N			OIL & CHIP	16.1	246.3		41.8
RT	STA	176+62.	300N			OIL & CHIP	10.5	155.0		27.3
RT	STA	204+70.	300E			OIL & CHIP	20.2	311.9		52
LT	STA	205+00.	250N			OIL & CHIP	13.5	204.5		34.9
LT	STA	245+00.				AGGREGATE	17.4	262.8		53.1
SCHEDULE TOTALS:							191.0	2,566.0	53.0	437.0
FROM SURFACING SCHEDULE:								30,393.0	1285	
IMPROVEMENT TOTALS:							191.0	32,959.0	1,338.0	437.0

PERMANENT PAVEMENT MARKING SCHEDULE

LOCATION: STATION TO STATION					PAINT PAVEMENT MARKING			THERMOPLASTIC PAVEMENT MARKING	
					- LINE 4 INCH			- LINE	LETTERS AND
					WHITE	YELLOW	YELLOW	12 INCH	SYMBOLS
					SOLID	SOLID	SKIP-DASH	WHITE	WHITE
					FOOT	FOOT	FOOT	FOOT	FOOT
FAP 782									
IL 1									
STA	12+70.	TO	STA	14+00.	260	260			
STA	14+00.	TO	STA	17+45.	690	1,380		70	
STA	18+50.	TO	STA	20+00.	450	300			
STA	18+82.			LT ARROW					15.6
STA	19+10.			ONLY					20.8
STA	19+39.			LT ARROW					15.6
STA	19+64.			ONLY					20.8
STA	20+00.	TO	STA	27+50.	1,500	3,000		207	
STA	27+50.	TO	STA	27+90.	80	80			
STA	27+90.	TO	STA	34+17.	1,254		160		
STA	34+17.	TO	STA	41+81.	1,528	764	190		
STA	41+81.	TO	STA	50+13. BK	1,664	1,664			
STA	50+84.3	AH	TO	STA 82+80.	6,391	6,391			
STA	82+80.	TO	STA	83+77.1 BK	194	97	20		
STA	84+46.6	AH	TO	STA 91+80.	1,467	733	180		
STA	91+80.	TO	STA	127+55.	7,150		890		
STA	127+55.	TO	STA	137+80.	2,050	1,025	260		
STA	137+80.	TO	STA	139+45.	330	330			
STA	139+45.	TO	STA	150+00.	2,110	1,055	260		
STA	150+00.	TO	STA	161+50.	2,300		290		
STA	161+50.	TO	STA	171+35.	1,970	985	250		
STA	171+35.	TO	STA	172+92.	314	314			
STA	172+92.	TO	STA	182+18.	1,852	926	230		
STA	182+18.	TO	STA	195+38.	2,640		330		
STA	195+38.	TO	STA	203+06.	1,536	768	190		
STA	203+06.	TO	STA	209+25.	1,238	1,238			
STA	209+25.	TO	STA	211+73.8 BK	498	249	60		
STA	212+82.	AH	TO	STA 218+38.	1,112	556	140		
STA	218+38.	TO	STA	251+55.	6,634		830		
SUBTOTALS:					47,212	22,115	4,280		
IMPROVEMENT TOTALS:					73,607			277	73

FILE NAME =	USER NAME = kranzjc	DESIGNED -	REVISED -	<div>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</div>	<div>SCHEDULE - PERMANENT PAVEMENT MARKING</div>				F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
c:\pw\work\pwwdot\kranzjc\d0413978\7844	-sht-plan.dgn	DRAWN -	REVISED -						782	(28-3,110,100RS-2	WHITE	22	13
	PLOT SCALE = 94.4444 ' / in.	CHECKED -	REVISED -		CONTRACT NO. 78447								
Default	PLOT DATE = 10/22/2014	DATE -	REVISED -										
					SCALE:	SHEET	OF	SHEETS	STA.	TO STA.			

TEMPORARY PAVEMENT
MARKING SCHEDULE

LOCATION: STATION TO STATION	SHORT - TERM PAVEMENT MARKING	WORK ZONE PAVEMENT MARKING REMOVAL
	FOOT	SQ FT
FAP 782		
IL 1		
STA 12+70. TO STA 14+00.	36	4.0
STA 14+00. TO STA 17+45.	216	24.0
STA 18+50. TO STA 20+00.	96	10.7
STA 20+00. TO STA 27+50.	456	50.7
STA 27+50. TO STA 27+90.	12	1.3
STA 27+90. TO STA 34+17.	192	21.3
STA 34+17. TO STA 41+81.	228	25.3
STA 41+81. TO STA 50+13. BK	252	28.0
STA 50+84.3 AH TO STA 82+80.	960	106.7
STA 82+80. TO STA 83+77.1 BK	24	2.7
STA 84+46.6 AH TO STA 91+80.	216	24.0
STA 91+80. TO STA 127+55.	1,068	118.7
STA 127+55. TO STA 137+80.	312	34.7
STA 137+80. TO STA 139+45.	48	5.3
STA 139+45. TO STA 150+00.	312	34.7
STA 150+00. TO STA 161+50.	348	38.7
STA 161+50. TO STA 171+35.	300	33.3
STA 171+35. TO STA 172+92.	48	5.3
STA 172+92. TO STA 182+18.	276	30.7
STA 182+18. TO STA 195+38.	396	44.0
STA 195+38. TO STA 203+06.	228	25.3
STA 203+06. TO STA 209+25.	180	20.0
STA 209+25. TO STA 211+73.8 BK	72	8.0
STA 212+82. AH TO STA 218+38.	168	18.7
STA 218+38. TO STA 251+55.	996	110.9
IMPROVEMENT TOTALS:	7,440	827.0

RAISED PAVEMENT
MARKER SCHEDULE

LOCATION: STATION TO STATION	RAISED REFLECTIVE PAVEMENT MARKER			RAISED REFLECTIVE PAVEMENT MARKER REMOVAL EACH
	2 WAY AMBER	1 WAY AMBER	1 WAY CRYSTAL	
	EACH	EACH	EACH	
FAP 782				
IL 1				
STA 12+70. TO STA 14+00.	3.0			3.0
STA 14+00. TO STA 17+45.		18.0		18.0
STA 18+50. TO STA 20+00.	8.0		4.0	12.0
STA 20+00. TO STA 27+50.		38.0		38.0
STA 27+50. TO STA 28+70.	3.0			3.0
STA 28+70. TO STA 50+13. BK	27.0			27.0
STA 50+84.3 AH TO STA 83+77.1 BK	41.0			41.0
STA 84+46.6 AH TO STA 211+73.8 BK	159.0			159.0
STA 212+82. AH TO STA 251+55.	48.0			48.0
SUB TOTAL:	289.0	56.0	4.0	
IMPROVEMENT TOTAL:	349.0			349.0

EXISTING CURVE DATA

P. I. STA = 45+75

Δ = 52⁰ - 06' - 00"

D = 5⁰ - 30' - 00"

R = 1042.1'

T = 509.3'

L = 947.3'

E = 117.8'

EXIST. SE. = 0.077 FT/FT

PC. STA. 40+65.7

PT. STA. 50+13

P. I. STA. = 79+42

Δ = 51⁰ - 41' - 00"

D = 5⁰ - 30' - 00"

R = 1042.1'

T = 504.6'

L = 939.7'

E = 115.8'

EXIST. SE. = 0.077 FT/FT

P. C. STA. 74+37.4

P. T. STA. 83+77.1

P. I. STA. = 206+90

Δ = 59⁰ - 10' - 00"

D = 5⁰ - 30' - 00"

R = 1042.1'

T = 592.0'

L = 1075.8'

E = 156.1'

EXIST. S. E. = 0.077 FT/FT

P. C. STA. 200+98

P. T. STA. 211+73.8

P. I. STA. = 254+52

Δ = 58⁰ - 29' - 20"

D = 2⁰ - 00' - 00"

R = 2864.93'

T = 1604.07'

L = 2924.17'

E = 418.49'

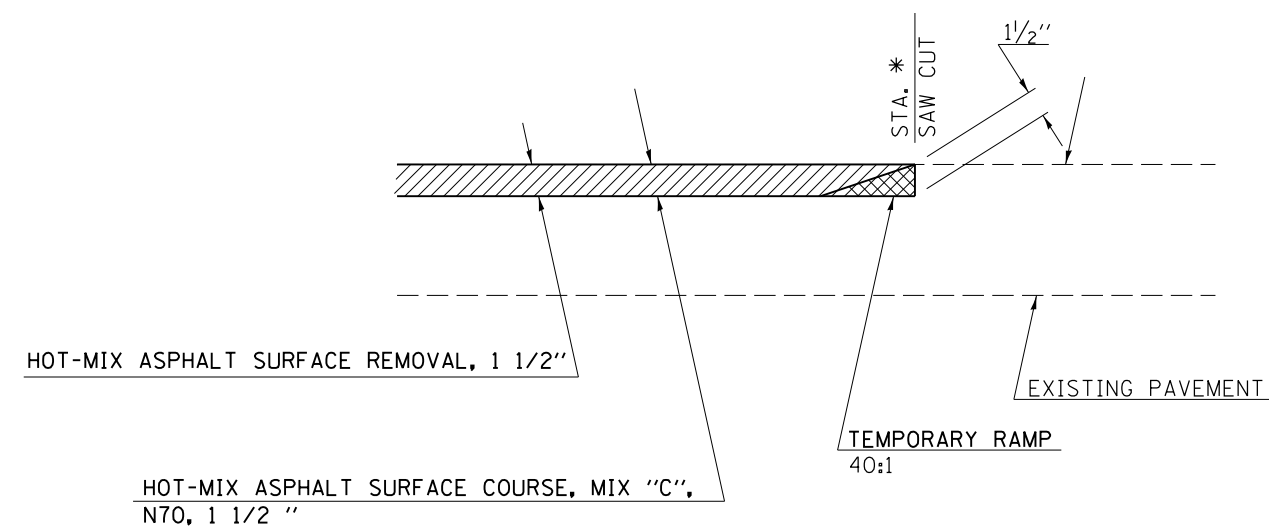
EXIST. S. E. = 0.032 FT/FT

P. C. STA. 238+47.93

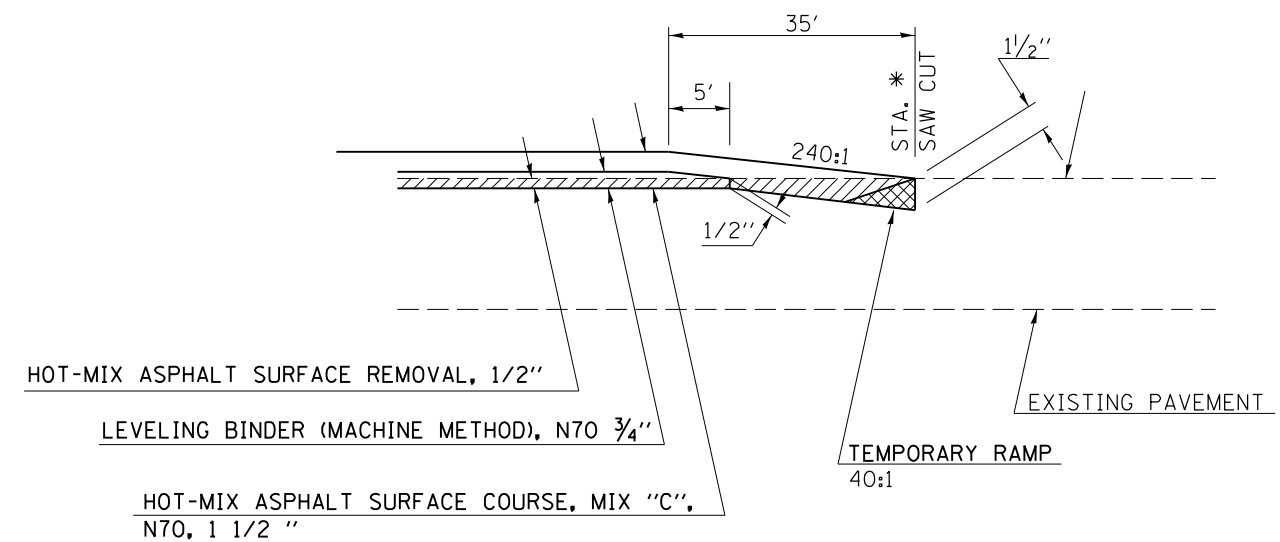
P. T. STA. 267+72.10

FILE NAME = ct\pw_work\pwidot\krenzjc\0413978\7844 Default	USER NAME = krenzjc	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EXISTING CURVE DATA			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	-sht-plan.dgn	DRAWN -	REVISED -					782	(28-3,110,100)RS-2	WHITE	22	16
	PLOT SCALE = 94.4444 ' / in.	CHECKED -	REVISED -					CONTRACT NO. 78447				
	PLOT DATE = 10/22/2014	DATE -	REVISED -		SCALE:	SHEET	OF	SHEETS	STA.	TO	STA.	ILLINOIS FED. AID PROJECT

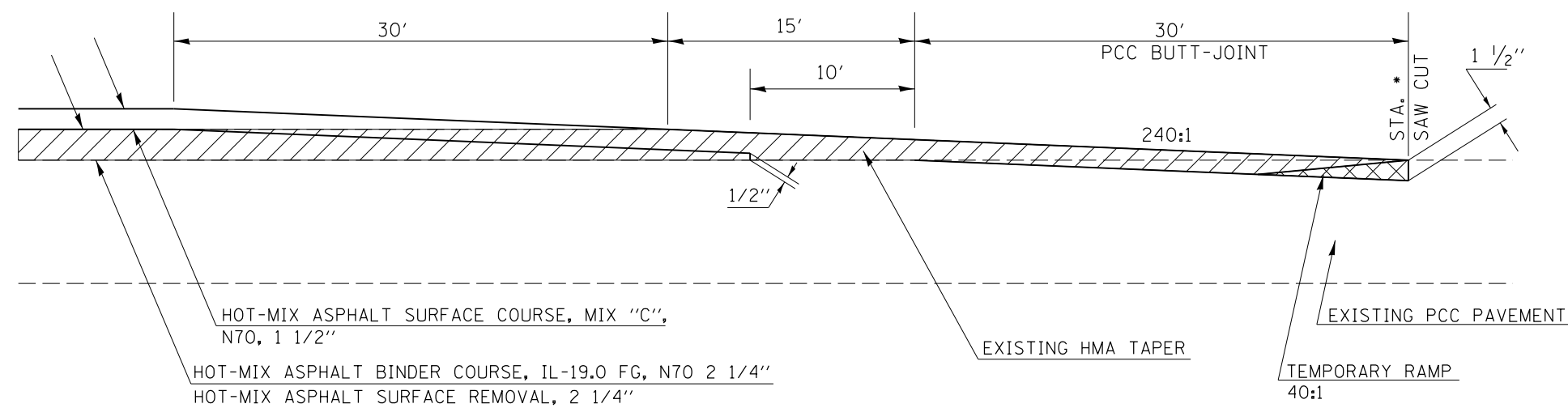
BUTT JOINT DETAILS



* TO BE USED:
STA. 12+70



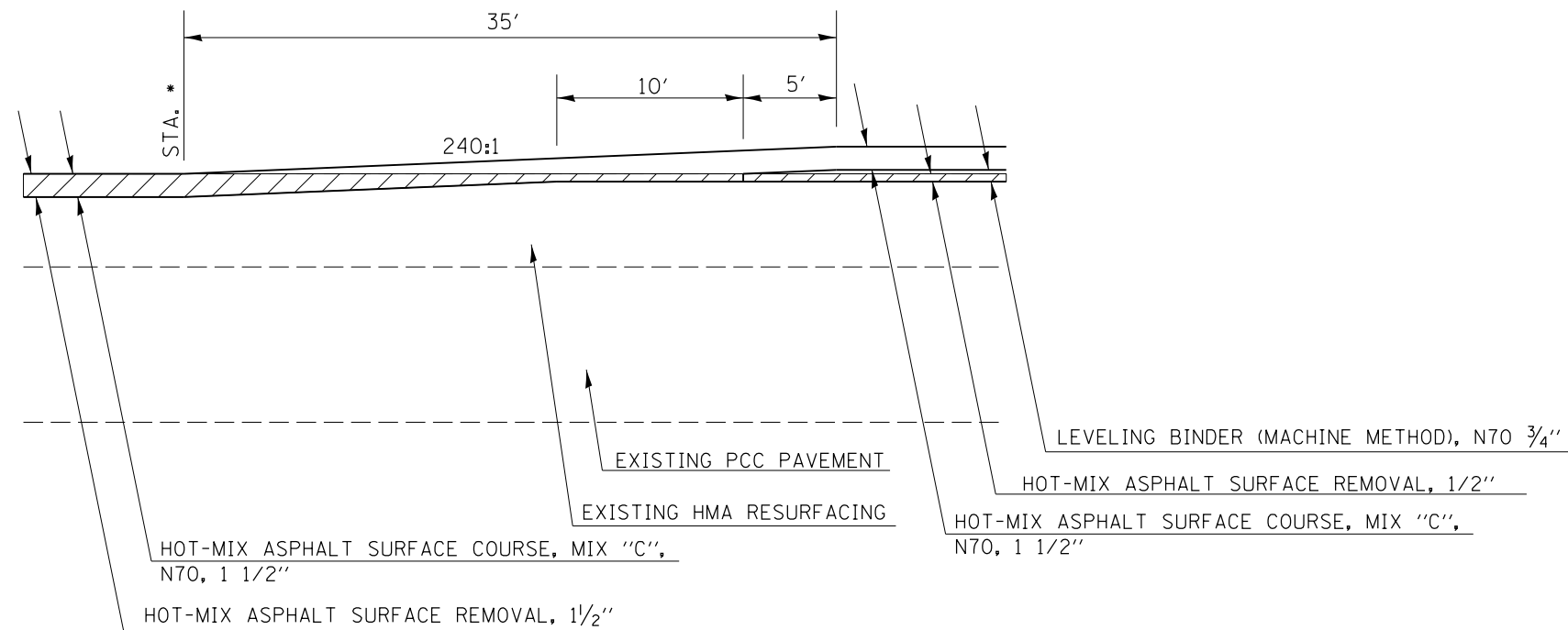
* TO BE USED:
STA. 83+18
STA. 86+10



* TO BE USED:
STA. 251+55

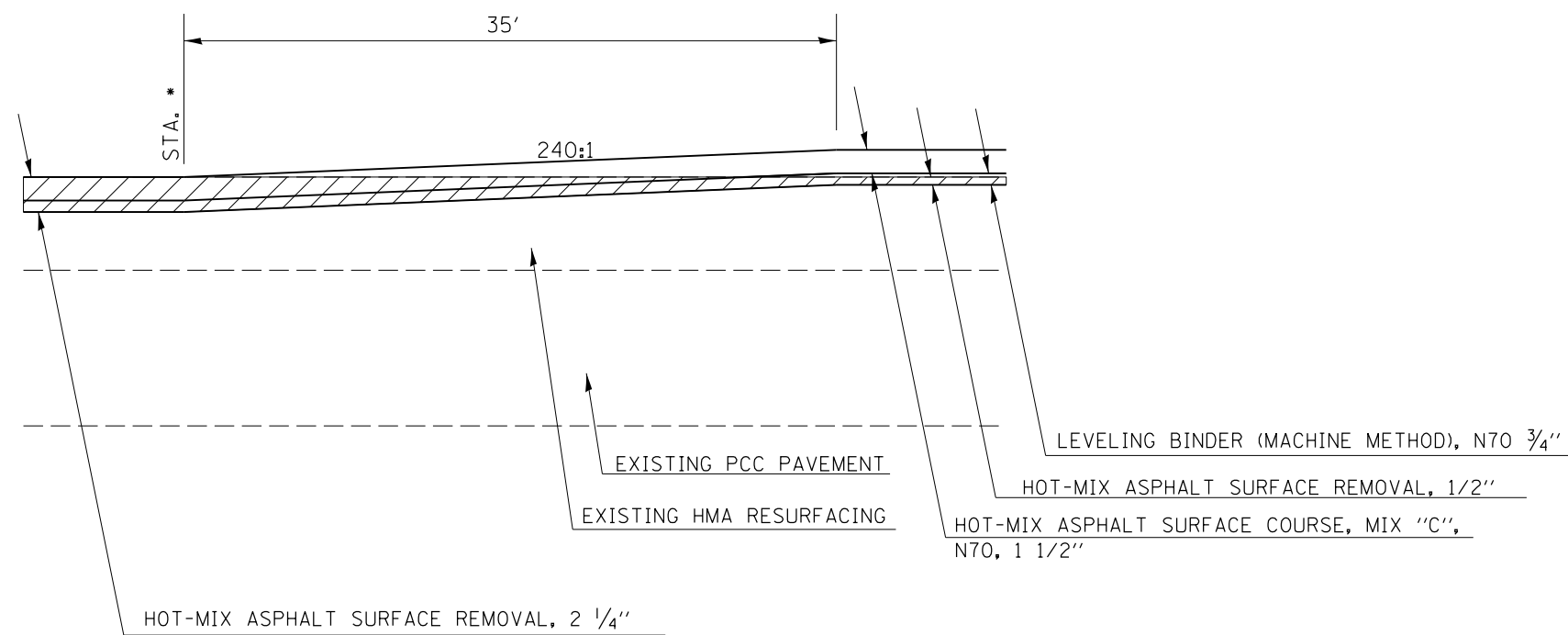
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	-sht-plandgn	DRAWN -	REVISED -							782	(28-3,110,100)RS-2	WHITE	22	17
	PLOT SCALE = 94.4444 ' / in.	CHECKED -	REVISED -		CONTRACT NO. 78447									
	PLOT DATE = 10/22/2014	DATE -	REVISED -		SCALE:	SHEET	OF	SHEETS	STA.	TO STA.	ILLINOIS FED. AID PROJECT			

HMA TRANSITION DETAILS



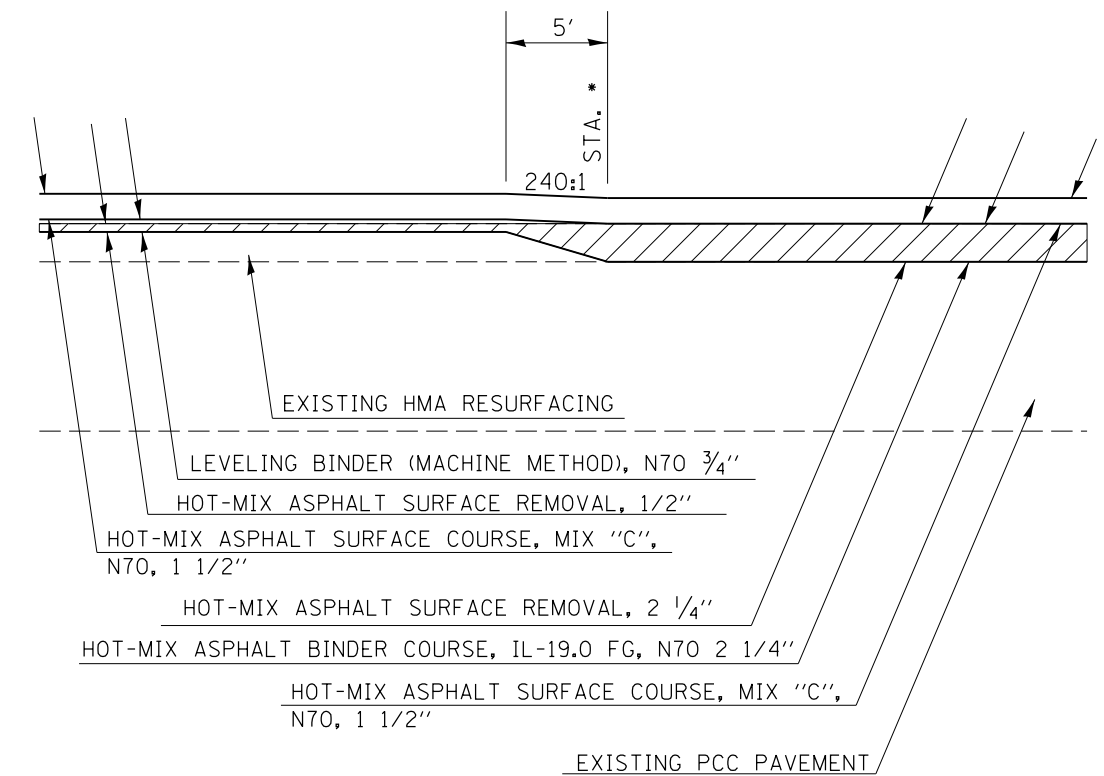
* TO BE USED:

STA. 27+90



* TO BE USED:

STA. 125+18
STA. 173+70

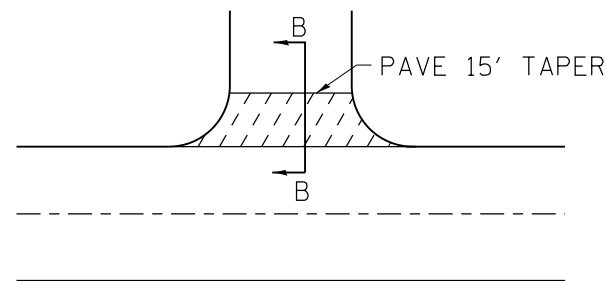


* TO BE USED:

STA. 236+85

FILE NAME = c:\pw\work\p\idot\kranzjc\d0413978\78447	USER NAME = kranzjc	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	HMA TRANSITION DETAILS			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	-sht-plan.dgn	DRAWN -	REVISED -					782	(28-3,110,100)RS-2	WHITE	22	18
	PLOT SCALE = 94.4444' / in.	CHECKED -	REVISED -					CONTRACT NO. 78447				
	PLOT DATE = 10/22/2014	DATE -	REVISED -		SCALE:	SHEET	OF	SHEETS	STA.	TO	STA.	ILLINOIS FED. AID PROJECT

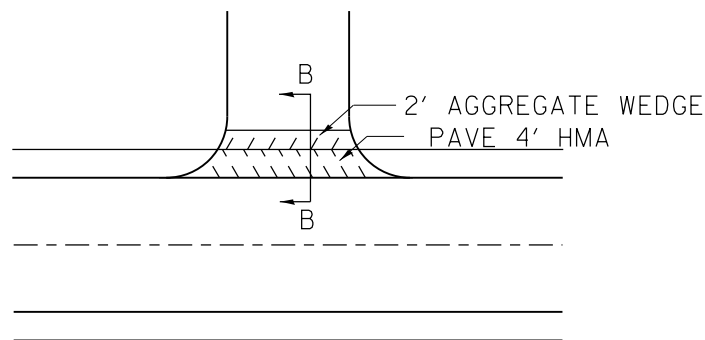
A diagram showing a cross-section of a road shoulder. A horizontal line represents the road surface. A vertical line represents the edge of the road. A shaded area with diagonal lines represents the taper, which is labeled "PAVE 15' TAPER". A vertical line segment labeled "B" with arrows at both ends indicates the width of the taper at the road surface.



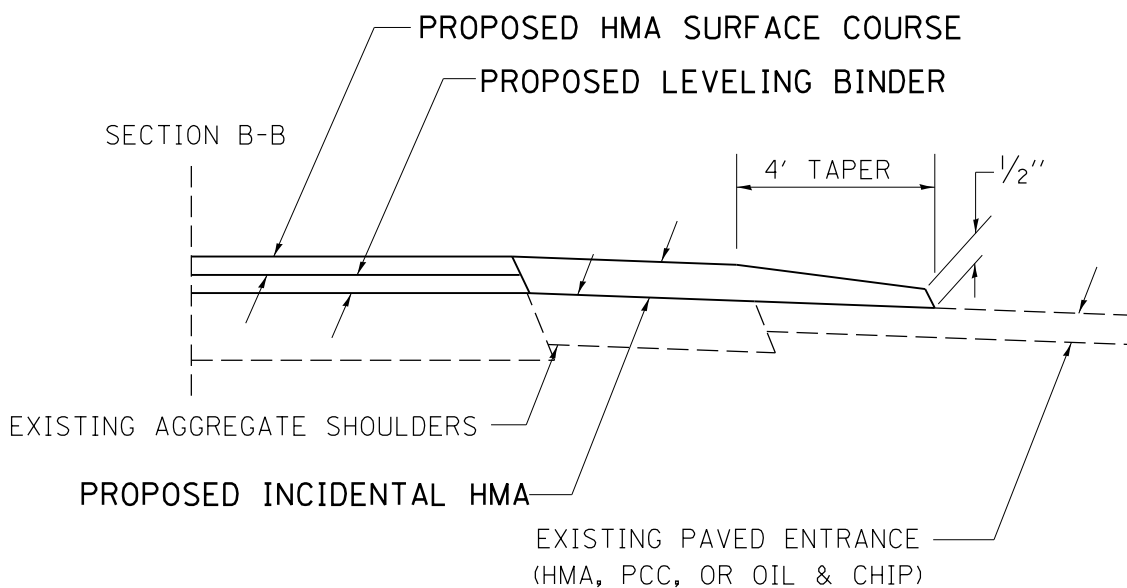
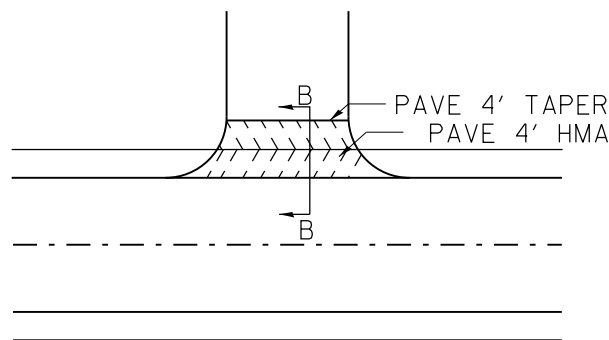
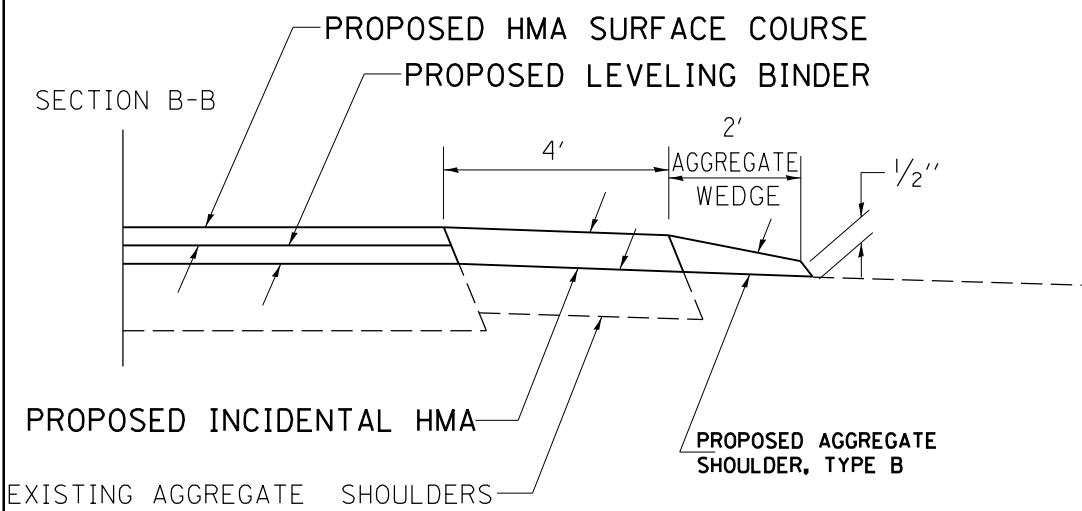
DETAIL OF OIL & CHIP
SIDEROAD



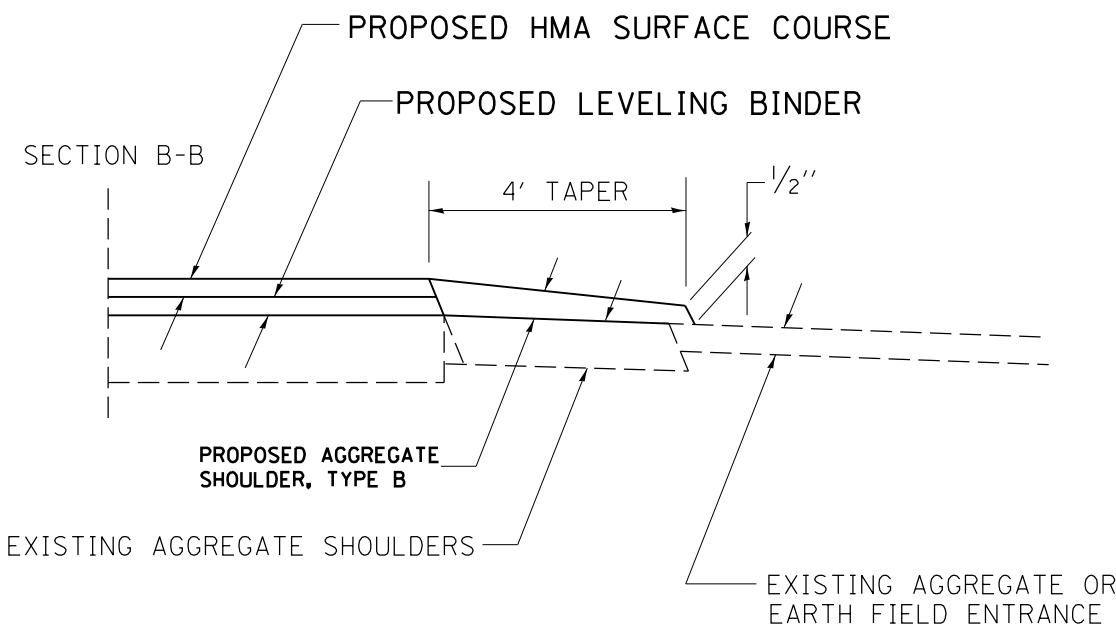
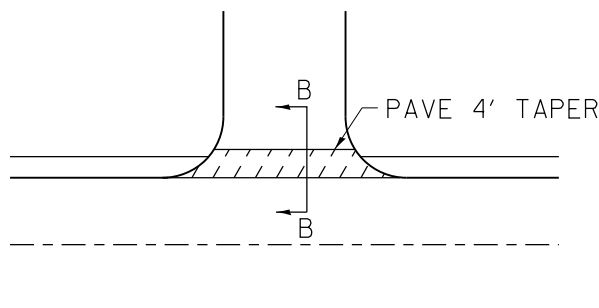
DETAIL OF AGGREGATE
PRIVATE OR COMMERCIAL
ENTRANCE



DETAIL OF HMA, PCC, OR OIL & CHIP
PRIVATE OR COMMERCIAL ENTRANCE



DETAIL OF AGGREGATE OR EARTH
FIELD ENTRANCE

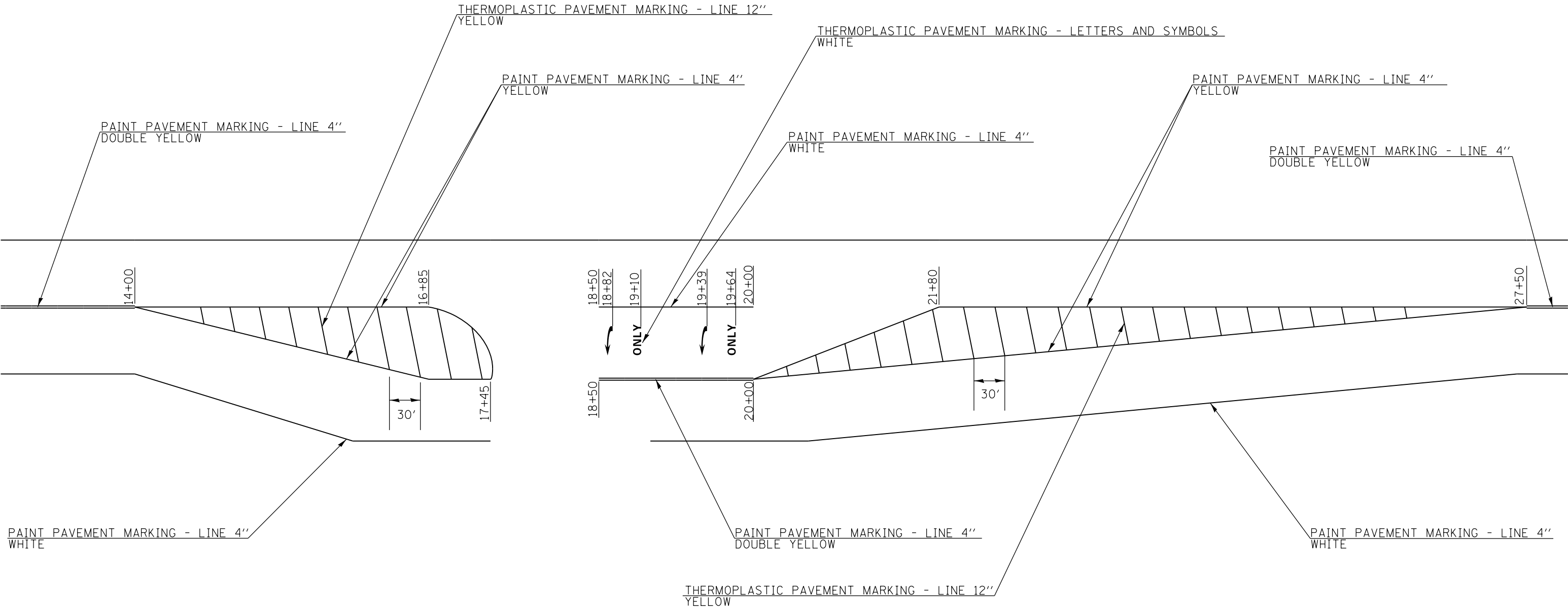


NOTES:

PREPARATION OF EXISTING SURFACE AND ANY EXCAVATION FOR ENTRANCES SHALL
BE IN ACCORDANCE WITH ARTICLE 406.09 OF THE STANDARD SPECIFICATIONS.

FILE NAME =	USER NAME = kranzjc	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	ENTRANCE DETAILS				F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
ct\pw_work\pwidot\kranzjc\d0413978\7844	-sht-plan.dgn	DRAWN -	REVISED -						782	(28-3,110,100)RS-2	WHITE	22	20
	PLOT SCALE = 94.4444' / in.	CHECKED -	REVISED -		CONTRACT NO. 78447								
Default	PLOT DATE = 10/22/2014	DATE -	REVISED -						ILLINOIS FED. AID PROJECT				
					SCALE:	SHEET	OF	SHEETS	STA.	TO STA.			

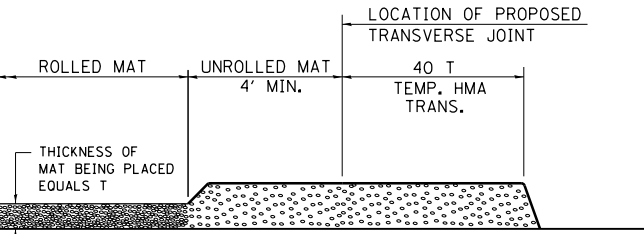
PAVEMENT MARKING DETAIL



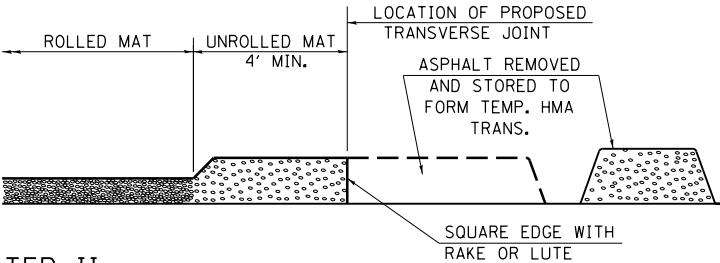
NOTES:
LETTERS AND SYMBOLS ARE 8' TALL

FILE NAME = c:\pw\work\p\idot\kranzjc\d0413978\78447	USER NAME = kranzjc	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PAVEMENT MARKING DETAIL			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	-sht-plandgn	DRAWN -	REVISED -					782	(28-3,110,100)RS-2	WHITE	22	21
	PLOT SCALE = 94.4444' / in.	CHECKED -	REVISED -		SCALE: SHEET OF SHEETS STA. TO STA.			CONTRACT NO. 78447				
	PLOT DATE = 10/22/2014	DATE -	REVISED -					ILLINOIS FED. AID PROJECT				

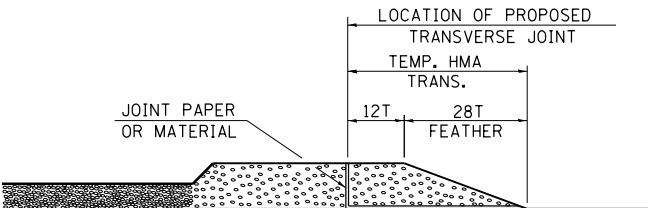
TEMPORARY HOT-MIX ASPHALT TRANSITIONS



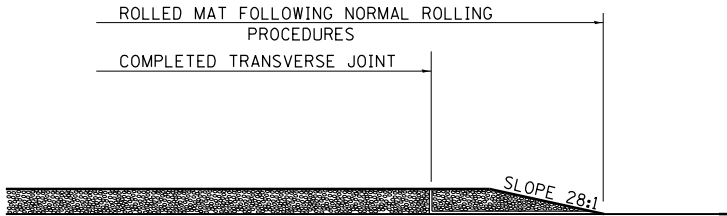
- STEP I
- 1. PLACE HOT-MIX ASPHALT MAT, LENGTH 40 TIMES THE THICKNESS OF THE MAT BEING PLACED PAST THE PROPOSED TRANSVERSE JOINT LOCATION USING NORMAL OPERATING PROCEDURES.
 - 2. EXTREME CARE SHOULD BE TAKEN TO MAINTAIN ENOUGH MATERIAL IN FRONT OF THE SCREED TO MAINTAIN REQUIRED PAVING DEPTH.



- STEP II
- 1. MOVE THE PAVER OUT OF THE WAY AND REMOVE THE ASPHALT FROM THE AREA OF THE PROPOSED TEMPORARY HOT-MIX ASPHALT TRANSITION.
 - 2. SQUARE UP THE END OF THE MAT WITH A RAKE OR LUTE.
 - 3. NOTE THAT THE MAT WITHIN 4' OF THE END OF JOINT IS NOT TO BE ROLLED AT THIS TIME.



- STEP III
- 1. JOINT PAPER OR OTHER PRESELECTED JOINT MATERIAL IS THEN PLACED IN THE CLEARED AREA AND THE EXCESS ASPHALT USED TO HAND FORM A TRANSITION TO THE DIMENSIONS SHOWN ABOVE.
 - 2. NOTE THAT IN CONSTRUCTING THE TRANSITION, THE MAT DEPTH IS CONTINUED AS PART OF THE TRANSITION BEFORE FORMING THE FEATHER.



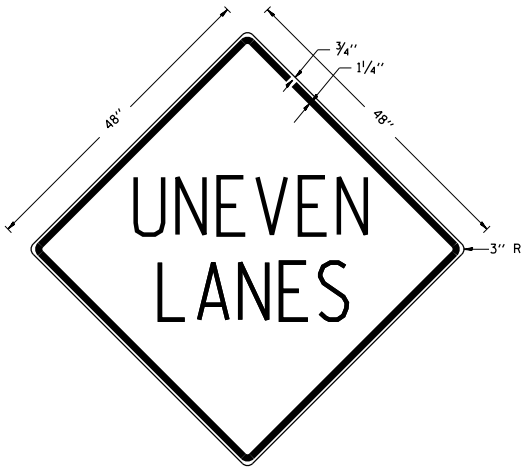
- STEP IV
- 1. COMPLETE TEMPORARY TRANSITION BY ROLLING.
 - 2. TO RESUME PAVING, AT THE JOINT, REMOVE TEMPORARY TRANSITION AND DISPOSE OF THE MATERIAL ACCORDING TO ART. 202.03 OF THE STD. SPECS. (COST INCLUDED IN THE CONTRACT).
 - 3. CONSTRUCTING THE TEMPORARY TRANSITIONS WILL NOT BE PAID FOR SEPARATELY IN ACCORDANCE WITH ARTICLE 406.14 OF THE STANDARD SPECIFICATIONS.

STD. 9-26

REVISIONS	
REDRAWN	2-15-89
REVISED	8-16-94
REVISED	01-09-07
RESIZED	05-8-08
REVISED	05-16-13

UNEVEN LANES SIGN

W8-11 (48" x 48")



COLORS:
LEGEND AND BORDER - BLACK NON-REFLECTORIZED
BACKGROUND - ORANGE REFLECTORIZED

NOTE: PRIOR TO ALLOWING TRAFFIC ON ANY PORTION OF THE ROADWAY THAT HAS BEEN COLDMILLED OR BEFORE RESURFACING OPERATIONS BEGIN, THE CONTRACTOR SHALL HAVE ERECTED "UNEVEN PAVEMENT" SIGNS THAT CONFORM TO THE ABOVE DETAILS. A MINIMUM OF ONE SIGN AT EACH END OF THE IMPROVEMENT WILL BE REQUIRED. THE CONTRACTOR SHALL MAINTAIN THE "UNEVEN PAVEMENT" SIGNS UNTIL THE RESURFACING OPERATIONS ARE COMPLETED.

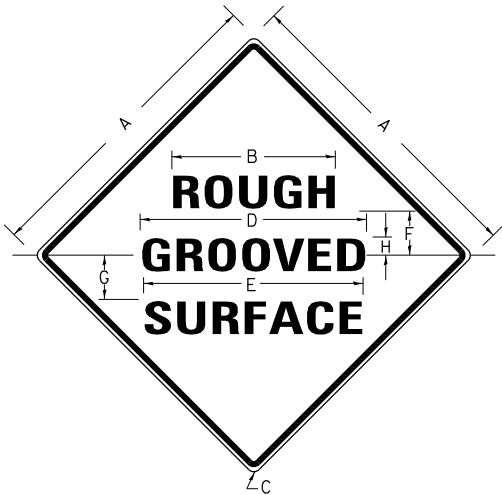
IF AT ANY TIME THE SIGNS ARE IN PLACE BUT NOT APPLICABLE, THEY SHALL BE TURNED FROM THE VIEW OF MOTORISTS OR COVERED AS DIRECTED BY THE ENGINEER.

THE COST OF FURNISHING, ERECTING, MAINTAINING, AND REMOVING THE REQUIRED SIGNS SHALL BE INCLUDED IN THE CONTRACT.

REVISIONS	
DRAWN	2-15-89
REVISED	4-06-93
REDESIGNED	
RESIZED	
REVIEWED	5-17-13

STD. 9-41

ILLINOIS STANDARD



COLORS:
LEGEND AND BORDER- BLACK NON-REFLECTORIZED
BACKGROUND- ORANGE REFLECTORIZED

SIGN SIZE	DIMENSIONS							
	A	B	C	D	E	F	G	H
48X48	48.0	24.1	3.0	34.0	33.0	6.0	13.0	3.5

SIGN SIZE	SERIES LINES			MAR-GIN	BOR-DER	BLANK STD.
	1	2	3			
48X48	7C	7C	7C	0.8	1.2	B4-48D

ALL DIMENSIONS IN INCHES

NOTES:
PRIOR TO ALLOWING TRAFFIC ON ANY PORTION OF THE ROADWAY THAT HAS BEEN COLDMILLED, THE CONTRACTOR SHALL HAVE ERECTED "ROUGH GROOVED SURFACE" SIGNS THAT CONFORM TO THE ABOVE DETAILS. A MINIMUM OF ONE SIGN AT EACH END OF THE IMPROVEMENT WILL BE REQUIRED. THE CONTRACTOR SHALL MAINTAIN THE "ROUGH GROOVED SURFACE" SIGNS UNTIL THE COLDMILLED SURFACE IS COVERED WITH LEVELING BINDER OR SURFACE COURSE.

IF AT ANY TIME THE SIGNS ARE IN PLACE BUT NOT APPLICABLE, THEY SHALL BE TURNED FROM THE VIEW OF MOTORISTS OR COVERED AS DIRECTED BY THE ENGINEER.

THE COST OF FURNISHING, ERECTING, MAINTAINING, AND REMOVING THE REQUIRED SIGNS SHALL BE INCLUDED IN THE CONTRACT.

REVISIONS	
REDRAWN	2-15-89
REVISED	4-6-93
REVISED	3-27-08
REVIEWED	5-17-13

STD. 9-39

FILE NAME =	USER NAME = kranzjc	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TEMP HMA TRANSITIONS, UNEVEN LANES SIGN, ROUGH GROOVED SURFACE SIGN	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
ct\pw_work\pwidot\kranzjc\d0413978\78447	-sht-plan.dgn	DRAWN -	REVISED -			782	(28-3,110,100)RS-2	WHITE	22	22
Default	PLOT SCALE = 94.4444 ' / in.	CHECKED -	REVISED -			CONTRACT NO. 78447				
	PLOT DATE = 10/22/2014	DATE -	REVISED -			ILLINOIS FED. AID PROJECT				