11-06-2015 LETTING ITEM 060

STATE OF ILLINOIS

DEPARTMENT OF TRANSPORTATION

DIVISION OF HIGHWAYS

FOR INDEX OF SHEETS, SEE SHEET NO. 3

TOWNSHIP: EQUALITY

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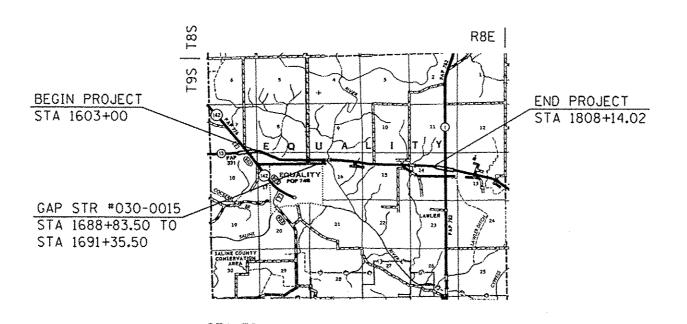
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	2015	203
PV	3960	484
SU	260	315
MU	1650	201
ADT	5870	717

PROPOSED HIGHWAY PLANS

FAP ROUTE 331 (IL 13)
SECTION (10-2,10-1,10-3-1,10)RS-2
PROJECT ACNHPP-0331 (072)
3P RESURFACING
GALLATIN COUNTY

C-99-058-14



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: VALERIE ROLLA (618)351-5214
PROJECT MANAGER: CHARLES STEIN (618)351-5210

GROSS LENGTH = 20,005.16 FT. = 3.789 MILE NET LENGTH = 20,005.16 FT. = 3.789 MILE

STA 1654+33.15 BK = STA 1656+99.48 AH STA 1728+17.57 BK = STA 1728+08.10 AH

CONTRACT NO. 78429

110-2,10-1,10-3-1,10183-2

D-99-049-14



STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED AUGUST 1/2 20 1/5

DEFUTY DIRECTOR OF HIGHWAYS, BEGION ENGINEER

20 1/5

DIRECTOR OF DESIGN AND ENVIRONMENT AT 2 20 1/5

DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

Prepared By:

Examined By:

Examined By:

Examined By:

Examined By:

Examined By:

Examined By:

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•	//·			,								(10-2,10-1,10-3-1,	10)RS-2			

INDEX OF SHEETS

SHEET NO.	DESCRIPTION
1	COVER SHEET
2	SIGNATURE SHEET
3	INDEX OF SHEETS, HIGHWAY STANDARDS.
	GENERAL NOTES & MIX DESIGN
4-5	SUMMARY OF QUANTITIES
6	TYPICAL SECTIONS
7-8	SCHEDULES
9	DISTRICT DETAILS

STANDARDS

000001-06 STANDARD SYMBOLS, ABBREVIATIONS, AND PATTERNS

442101-07 CLASS B PATCHING

701306-03 LANE CLOSURE, 2L. 2W, SLOW MOVING OPERATIONS DAY ONLY , FOR SPEEDS >= 45 MPH

701311-03 LANE CLOSURE, 2L. 2W, MOVING OPERATIONS DAY ONLY

701336-06 LANE CLOSURE, 2L, 2W, WORK AREAS IN SERIES, FOR SPEEDS >= 45 MPH

MIX DESIGN

Locations	Hot-Mix Asphalt Surface Course
Mixture Use(s):	Polymerized Hot-Mix Asphalt Surface Course, Mix D. N90
AC/PG:	SBS PG76-22
ABR % (Mgx):	See Special Provision
Design Air Voids:	4.0%, 90 Gyration Design
Mixture Composition:	II - 9. 5 mm
(Gradation Mixture)	16-3.3 (III)
Friction Aggregate:	D Surface
Quality Management	ACB.
Program:	QCP COMPANY OF THE PROPERTY OF

Locations	Hot-Mix Asphalt Leveling Binder Course
Mixture Use(s):	Polymerized Hot-Mix Asphalt Leveling Binder, N90, IL-9.5mm Fine Grade
AC/PG:	SBS PG76-22
ABR % (Max):	See Special Provision
Design Air Voids:	4.0%, 90 Gyration Design
Mixture Composition:	II. 0 5 51 0
(Gradation Mixture)	IL-9.5mm Fine Grade
Friction Aggregate:	None
Quality Management	ACR
Program:	OCP COMPANY OF THE PROPERTY OF

Locations	HMA Shoulders
Mixture Use(s):	HMA Shoulders, N30
AC/PG:	PG58-22
RAP % (Max):	See Special Provisions
Design Air Voids:	2.0%, 30 Gyrotion Design
Mixture Composition:	1944 Ch
(Gradation Mixture)	HMA Shoulder
Friction Aggregate:	None

STRUCTURES WITHIN PROJECT LIMITS

STRUCTURE NO.	OPERATING RATING	INVENTORY RATING	POSTING	MID
030-0015	61	36	NONE	EMPTIED
030-2002	91	47	NONE	EMPTIED

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GENERAL NOTES

THE THICKNESS OF THE 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.

UNLESS OTHERWISE DIRECTED BY THE ENGINEER, 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 SHUT DOWN. RESURFACING ON ADJACENT LANES IS TO BE BROUGHT UP TO THE SAME ELEVATION.

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

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

QUANTITIES SHOWN IN THE PLANS FOR PATCHING ARE ESTIMATES. THE ACTUAL AMOUNT OF PATCHING REQUIRED SHALL BE DETERMINED BY THE ENGINEER.

THE CONTRACTOR SHALL STAMP STATIONING IN THE HOT-MIX ASPHALT SURFACE AT 300 FT. INTERVALS ALTERNATING SIDES ON THE OUTSIDE EDGE OF PAVEMENT AND AS DIRECTED BY THE ENGINEER. THE STATION SYMBOL STAMPS USED SHALL BE FURNISHED BY THE CONTRACTOR. THEY SHALL BE 5 1/2 IN. TALL OF A DESIGN APPROVED BY THE ENGINEER, AND SHALL REMAIN THE PROPERTY OF THE CONTRACTOR.

ATTAINMENT OF PROPER CROWN OR SUPERELEVATION SHALL BE FULLY ACCOMPLISHED WITH THE HOT-MIX ASPHALT SURFACE REMOVAL OR HOT-MIX ASPHALT BINDER COURSE, WHEN SPECIFIED.

IN ADDITION TO THE REQUIREMENTS OF ARTICLE 107.16 THE CONTRACTOR SHALL PROTECT THE SURFACE OF ALL BRIDGE DECKS AND BRIDGE APPROACH PAVEMENTS IN A MANNER SATISFACTORY TO THE ENGINEER BEFORE ANY EQUIPMENT IS ALLOWED TO CROSS THE STRUCTURE. PROTECTION SHALL BE PROVIDED FOR ALL EQUIPMENT AS DEFINED IN ARTICLE 101.16 REGARDLESS IF TRACK MOUNTED OR WHEELED

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.

COMMITMENTS: NONE

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	TRACT NO. 78429
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(10-2,10-1,10-3-1,10)RS-2

SUMMARY OF QUANTITIES

COUNTY: GALLATIN

ROUTE: FAP 331 (IL 13)

FUNDING: 80% FED / 20% STATE

LOCATION: RURAL

		LOCATION	RURAL
CODE	ITEM DESCRIPTION	UNIT	ROADWAY
NUMBER	TIEM DESCRIPTION	GIVE 1	0005
40600285	POLYMERIZED BITUMINOUS MATERIALS (PRIME COAT)	POUND	45, 117
40600909	POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-9.5FG, N90	TON	2, 309
40600990	TEMPORARY RAMP	SQ YD	5.7
40603545	POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N90	TON	4,619
44000155	HOT-MIX ASPHALT SURFACE REMOVAL. 1 1/2"	sa ya	17, 782
44000158	HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/4"	SO YD	54, 985
44201031	· CLASS B PATCHES, TYPE II, 15 INCH	SO YO	704
44201037	CLASS B PATCHES, TYPE IV, 15 INCH	SQ YD	111
44201299	DOWEL BARS 1 1/2"	EACH	1,780
44213100	PAVEMENT FABRIC	S0 Y0	111
44213200	SAW CUTS	FOOT	4, 426
44213204	TIE BARS 3/4"	EACH	42
48203100	HOT-MIX ASPHALT SHOULDERS	TON	1,494

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCALE: SHEET OF SHEETS STA. TO STA.

(10-2,10-1,10-3-1,10)RS-2

SUMMARY OF QUANTITIES - CONT

COUNTY: GALLATIN

ROUTE: FAP 331 (IL 13)

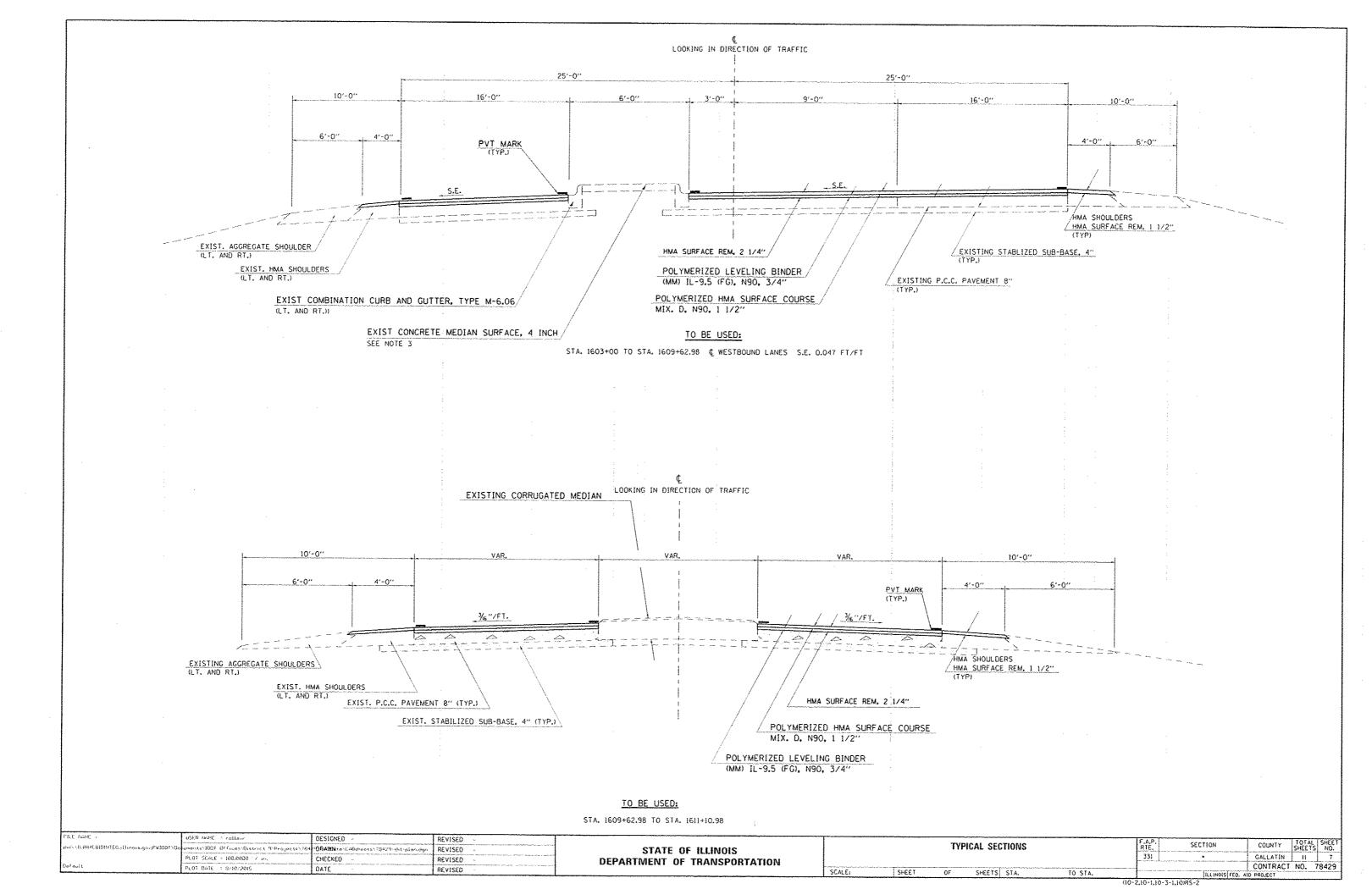
FUNDING: 80% FED / 20% STATE

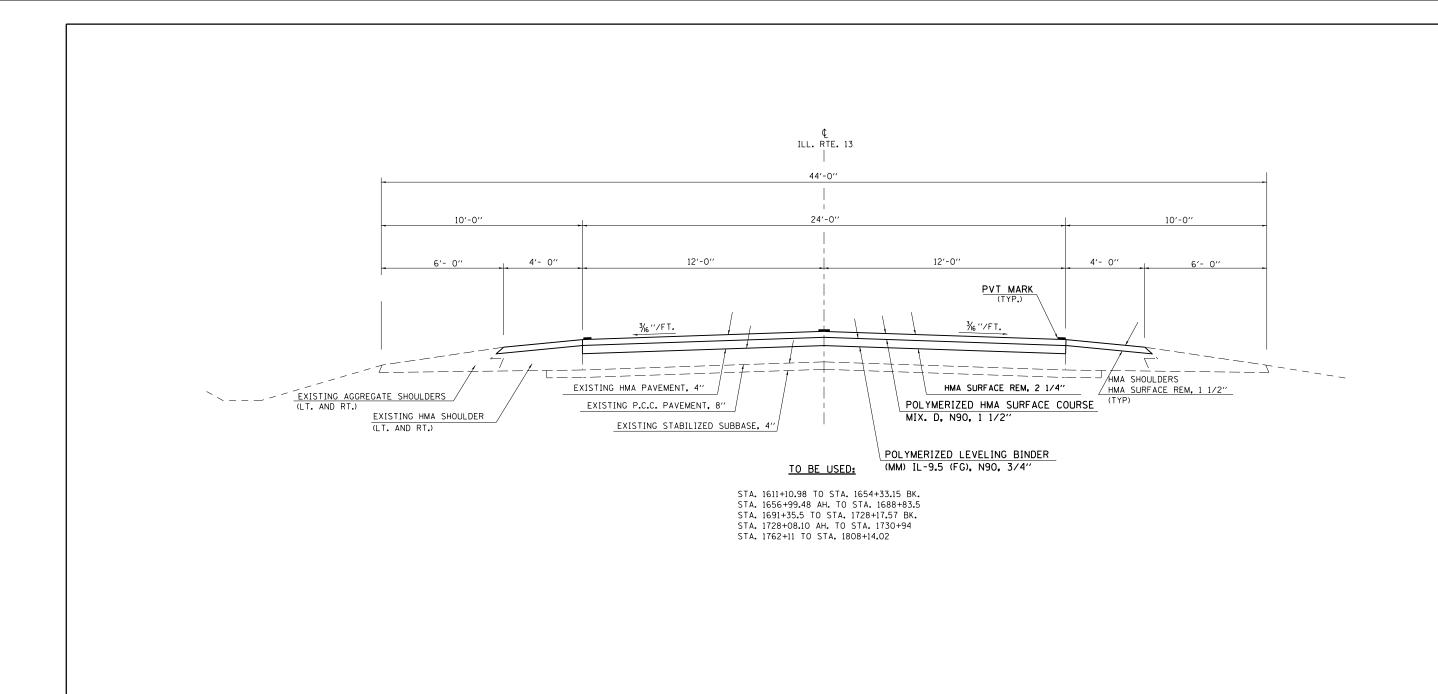
LOCATION: RURAL

		L OIAD LIAO:	80% FED / 20% STATE
		LOCATION:	RURAL
CODE NUMBER	ITEM DESCRIPTION	UNIT	ROADWAY 0005
67100100	MOBILIZATION	LSUM	1
70100460	TRAFFIC CONTROL AND PROTECTION, STANDARD 701306	LSUM	1
70100600	TRAFFIC CONTROL AND PROTECTION, STANDARD 701336	LSUM	1
70106800	CHANGEABLE MESSAGE SIGN	CAL MO	1
70300100	SHORT TERM PAVEMENT MARKING	FOOT	6, 004
		:	
70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	47, 432
		The state of the s	
70300280	TEMPORARY PAVEMENT MARKING - LINE 24"	FOOT	24
70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SO FT	17.865
78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	47, 432
78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	24
78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	254
1			
78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	254
		2 - Annual of the control of the con	
Z0034105	MATERIAL TRANSFER DEVICE	· TON	6, 928
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* SPECIALTY ITEM

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COUNTY TOTAL SHEET NO.

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PAVEMENT RESURFACING SCHEDULE

			LENGTH	POLY HMA	POLY HMA	НМА	НМА	BIT MATLS	TEMP	НМА
			(INFO ONLY)	LEVEL	SURFACE	SURF REM	SURF REM	(PRIME	RAMP	SHOULDERS
				BINDER	COURSE	2 1/4	1 1/2	COAT)		
STA	TO	STA	FEET	TON	TON	SQ YD	SQ YD	LB	SY	TON
STA 1603+00.00	TO STA	1609+62.98	663.0	136.1	272. 3	3241.2	589.3	2453.0	36. 7	49.5
STA 1609+62.98	TO STA	1611+10.98	148.0	23.5	47.0	559.1	131.6	436.6		11.1
STA 1611+10.98	TO STA	1654+33.15	4322.2	484.1	968.2	11525.8	3841.9	9508.8		322. 7
EQN STA 1654+33.15	BK = STA	1656+99.48 AH								
STA 1656+99.48	TO STA	1688+83.50	3184.0	356.6	713.2	8490.7	2830.2	7004.8		237.7
GAP STA 1688+83.50	TO STA	1691+35.50								
STA 1691+35.50	TO STA	1728+17.57	3682.1	412.4	824.8	9818.9	3273.0	8100.6		274.9
EQN STA 1728+17.57	BK = STA	1728+08.10 AH								
STA 1728+08.10	TO STA	1808+14.02	8005.9	896.7	1793.3	21349.1	7116.4	17613.0	20.0	597.8
		TOTALS	20005.16	2309	4619	54985	17782	45117	57	1494

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PAVEMENT MARKING SCHEDULE

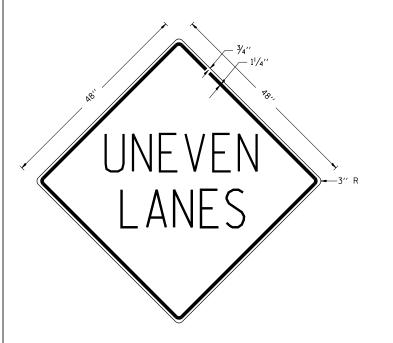
	LINE - 4"					SHORT	TEMP	TEMP	WORK	RAISED	RAISED	
	L LINE 4	LII	LINE - YELLOW 4"		LINE - 24"	TERM	PVMT	PVMT	ZONE	REFLECTIVE	REFL	
	WHITE	LEFT	CENTER	RIGHT	WHITE	PVMT	MRK	MRK	PAVT MK	T MK PAVT MKR	PAVT MKR	DESCRIPTION
	SOLID	SOLID	DASHED	SOLID	SOLID*	MRK	4′′	24′′*	REM		REMOVAL	
TO STA	FT	FT	FT	FT	FT	FT	FT	FT	SQ FT	EACH	EACH	
STA 1609+62.98	1326	663		663		199	2652		951	9	9	
STA 1611+10.98	296	148		148		45	592		213	2	2	
STA 1615+85.00		475					475		159			
STA 1654+33.15	8645		1081			1297	9726		3675	55	55	
= STA1656+99.48 AH												
STA 1688+83.50	6369		797			956	7166		2708	40	40	
STA 1691+35.50												
STA 1728+17.57	7365		921			1105	8286		3131	47	47	
= STA1728+08.10 AH												
STA 1808+14.02	16012		2002		24	2402	18014	24	6854	101	101	*STATE POLICE MARKER
STA 1808+14.02				521			521		174			
RURAL TOTALS	40013	1286	4801	1332	24	6004	47432	24	17865	254	254	
	STA 1609+62.98 STA 1611+10.98 STA 1615+85.00 STA 1654+33.15 = STA 656+99.48 AH STA 1688+83.50 STA 1691+35.50 STA 1728+17.57 = STA 728+08.10 AH STA 1808+14.02 STA 1808+14.02	TO STA FT STA 1609+62.98 1326 STA 1611+10.98 296 STA 1615+85.00 STA 1654+33.15 8645 = STA 656+99.48 AH STA 1688+83.50 6369 STA 1691+35.50 STA 1728+17.57 7365 = STA 728+08.10 AH STA 1808+14.02 16012 STA 1808+14.02	TO STA FT FT STA 1609+62.98 1326 663 STA 1611+10.98 296 148 STA 1615+85.00 475 STA 1654+33.15 8645 = STA 656+99.48 AH STA 1688+83.50 6369 STA 1691+35.50 STA 1728+17.57 7365 = STA 728+08.10 AH STA 1808+14.02 16012 STA 1808+14.02 40013 1286	TO STA FT FT FT STA 1609+62.98 1326 663 STA 1611+10.98 296 148 STA 1615+85.00 475 STA 1654+33.15 8645 1081 = STA 656+99.48 AH STA 1688+83.50 6369 797 STA 1691+35.50 STA 1728+17.57 7365 921 = STA 728+08.10 AH STA 1808+14.02 16012 2002 STA 1808+14.02	TO STA FT FT FT FT STA 1609+62.98 1326 663 663 STA 1611+10.98 296 148 148 STA 1615+85.00 475 1081 STA 1654+33.15 8645 1081 = STA(656+99.48) AH 475 STA 1688+83.50 6369 797 STA 1691+35.50 921 57A 1728+17.57 = STA(728+08.10) AH 4801 STA 1808+14.02 16012 2002 STA 1808+14.02 40013 1286 4801 1332	TO STA FT STA 1609+62.98 1326 663 663 663 148 148 148 148 148 148 148 148 148 148	TO STA FT STA 1609+62.98 1326 663 663 199 5TA 1611+10.98 296 148 148 45 5TA 1615+85.00 475 5TA 1654+33.15 8645 1081 1297 5TA 1656+99.48 AH 5TA 1688+83.50 6369 797 956 5TA 1691+35.50 5TA 1728+17.57 7365 921 1105 5TA 1808+14.02 16012 2002 24 2402 5TA 1808+14.02 7014 5TA 1808+14.02 5TA 1808+14	TO STA FT	TO STA FT	STA FT FT FT FT FT FT FT	TO STA FT SO FT EACH STA 1609+62.98 1326 663 663 663 199 2652 951 9 STA 1611+10.98 296 148 148 45 592 213 2 STA 1615+85.00 475 475 159 STA 1654+33.15 8645 1081 1297 9726 3675 55 STA 1688+83.50 6369 797 976 956 7166 2708 40 STA 1691+35.50 514 1081 1081 1081 1081 1081 1081 1081 10	TO STA FT SO FT EACH EACH STA 1609+62.98 1326 663 663 199 2652 951 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9

^{*}STATE POLICE SPEED MEASUREMENTS MUST BE PLACED EXACT LOCATION OF THE EXISTING MARKINGS

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UNEVEN LANES SIGN

W8-11 (48" × 48")



COLORS:

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

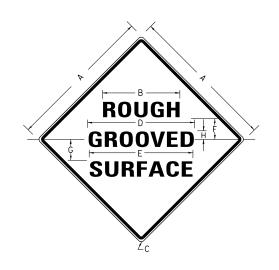
NOTE: PRIOR TO ALLOWING TRAFFIC ON ANY PORTION OF THE ROADWAY THAT HAS BEEN COLDMILLED OR BEFORE RESURFACING OPERATIONS BEGIN, THE CONTRACTOR SHALL HAVE ERECTED "UNEVEN PAVEMENT" SIGNS THAT CONFORM TO THE ABOVE DETAILS. A MINIMUM OF ONE SIGN AT EACH END OF THE IMPROVEMENT WILL BE REQUIRED. THE CONTRACTOR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

> DRAWN 2-15-89
> REVISED 4-06-9 REDSIGNED 7-23-0 STD. 9-41 REVIEWED 5-17-1

ILLINOIS STANDARD



COLORS:

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

SIGN		DIMENSIONS											
SIZE	Α	В	С	D	E	F G		H					
48X48	48.0	24.1	3.0	34.0	33.0	6.0	13.0	3.5					

SIGN		SERIE:				BLANK						
SIZE	1	2	3	GIN	DER	STD.						
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.

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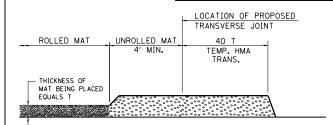
REDRAWN 2-15-89 REVISED 4-6-93 REVISED 3-27-08 STD. 9-39 REVIEWED 5-17-13

REVISIONS

STATE OF ILLINOIS

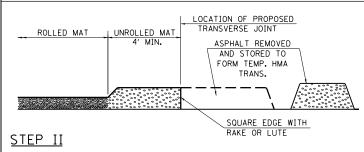
DEPARTMENT OF TRANSPORTATION

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.



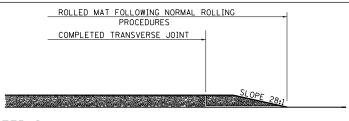
- 1. MOVE THE PAVER OUT OF THE WAY AND REMOVE THE ASPHALT FROM THE AREA OF THE PROPOSED TEMPORARY HOT-MIX ASPHALT TRANSITION.
- 2. SQUARE UP THE END OF THE MAT WITH A RAKE OR LUTE.
- 3. NOTE THAT THE MAT WITHIN 4' OF THE END OF JOINT IS NOT TO BE ROLLED AT THIS TIME.

SCALE:

LOCATION OF PROPOSED TRANSVERSE JOINT TEMP. HMA JOINT PAPER 28T FEATHER OR MATERIA

STEP III

- 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.

TO STA.

- 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.

REDRAWN 2-15-89 REVISED 8-16-94 REVISED 01-09-0 COUNTY TOTAL SHEETS NO.

GALLATIN 11 11

CONTRACT NO. 78429

REVISIONS

UNEVEN LANES, ROUGH GROOVED SURFACE, TEMP HMA TRANSITIONS SHEETS STA. SHEET

(10-2,10-1,10-3-1,10)RS-2

SECTION

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