

11-06-2015 LETTING ITEM 060

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

**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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
331	*	GALLATIN	11	1
		ILLINOIS	CONTRACT NO. 78429	

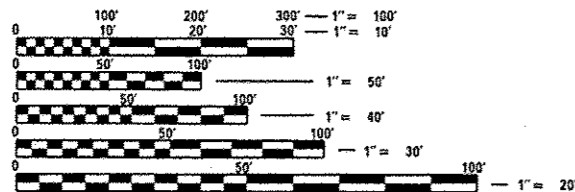
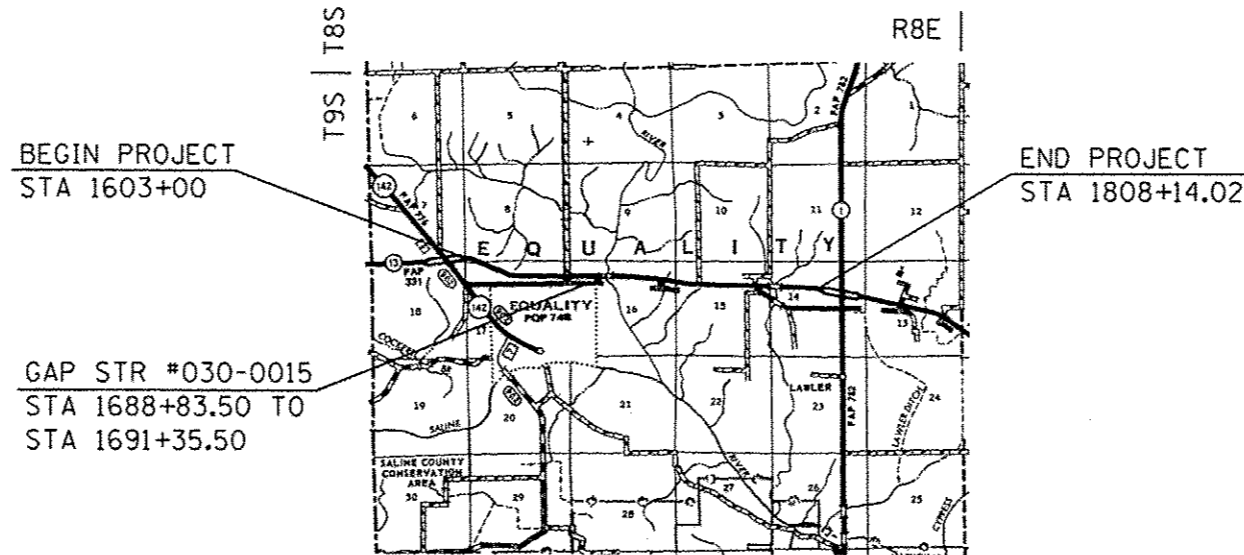
D-99-049-14



FOR INDEX OF SHEETS, SEE SHEET NO. 3

TOWNSHIP: EQUALITY

	2016	2036
PV	3960	4845
SU	260	315
MU	1650	2010
ADT	5870	7170



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

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

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

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

CONTRACT NO. 78429

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED August 12, 2015
Jeffrey K. Keenan
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

Oct 2, 2015
Wm D. Baranzoni, P.E.
ACTING ENGINEER OF DESIGN AND ENVIRONMENT

Oct 2, 2015
Omer Cemal, P.E.
DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

**PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS**

Prepared By: Joe Gianfren
DISTRICT STUDIES & PLANS ENGINEER

Examined By: [Signature]
DISTRICT LAND ACQUISITION ENGINEER

Examined By: Carrie Nelson
DISTRICT PROGRAM DEVELOPMENT ENGINEER

Examined By: Neil Nely
DISTRICT OPERATIONS ENGINEER

Examined By: [Signature]
DISTRICT PROJECT IMPLEMENTATION ENGINEER

Examined By: Daryl J. Tuszynski
DISTRICT CONSTRUCTION ENGINEER

Examined By: Bruce W. Cobles
DISTRICT MATERIALS ENGINEER

FILE NAME *	USER NAME * #USER#	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SIGNATURE SHEET				F.A.P. RTE. 331	SECTION *	COUNTY GALLATIN	TOTAL SHEETS 11	SHEET NO. 2
cd:\pwr\work\pwr\dtd\tr\allow\ad0396351\7842	sht-plan-edgn	DRAWN -	REVISED -		SCALE:	SHEET	OF	SHEETS	STA.	TO STA.	ILLINOIS FED. AID PROJECT CONTRACT NO. 78429		
#MODELNAME#	PLOT SCALE = 100,0000' / in	CHECKED -	REVISED -										
	PLOT DATE = 5/14/2014	DATE -	REVISED -										

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

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 % (Max):	See Special Provision
Design Air Voids:	4.0 %, 90 Gyration Design
Mixture Composition: (Gradation Mixture)	IL-9.5 mm
Friction Aggregate:	D Surface
Quality Management Program:	QCP

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: (Gradation Mixture)	IL-9.5mm Fine Grade
Friction Aggregate:	None
Quality Management Program:	QCP

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

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

STRUCTURES WITHIN PROJECT LIMITS

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

FILE NAME =	USER NAME = rollev	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	INDEX, HIGHWAY STANDARDS, MIX DESIGN, STRUCTURES	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
\\1.884EBIDINTEG.illinois.gov\PI\DOT\Documents\DOT Office\District 9\Projects\78429\B\B\B\CAD\Sheets\78429-hst-plan.dgn	OBAD	REVISION	331			*	CALLAHAN	11	3	
PLOT SCALE = 1/8" = 1'-0"	CHECKED -	REVISED -	CONTRACT NO. 78429							
PLOT DATE = 8/10/2015	DATE -	REVISED -	ILLINOIS FED. AID PROJECT							
Default				SCALE:	SHEET OF SHEETS	STA.	TO STA.	(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
	ROADWAY
	0005

CODE NUMBER	ITEM DESCRIPTION	UNIT	QUANTITY
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	57
40603545	POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N90	TON	4,619
44000155	HOT-MIX ASPHALT SURFACE REMOVAL, 1 1/2"	SQ YD	17,782
44000158	HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/4"	SQ YD	54,985
44201031	CLASS B PATCHES, TYPE II, 15 INCH	SQ YD	704
44201037	CLASS B PATCHES, TYPE IV, 15 INCH	SQ YD	111
44201299	DOWEL BARS 1 1/2"	EACH	1,780
44213100	PAVEMENT FABRIC	SQ YD	111
44213200	SAW CUTS	FOOT	4,426
44213204	TIE BARS 3/4"	EACH	42
48203100	HOT-MIX ASPHALT SHOULDERS	TON	1,494

FILE NAME =	USER NAME = follow	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUMMARY OF QUANTITIES	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
\\NLS294\EBID\INTEG\illinois.gov\DOT\Documents\DOT Offices\District 9\Projects\78429\Drawings\CA0\haets\78429-shc-plan.dgn		CHECKED -	REVISED -			331		GALLATIN	11	5
Default	PLOT SCALE = 1/8" = 1' / in.	DATE -	REVISED -		SCALE:	SHEET OF SHEETS		STA.	TO STA.	
	PLOT DATE = 8/18/2015					ILLINOIS FED. AID PROJECT				

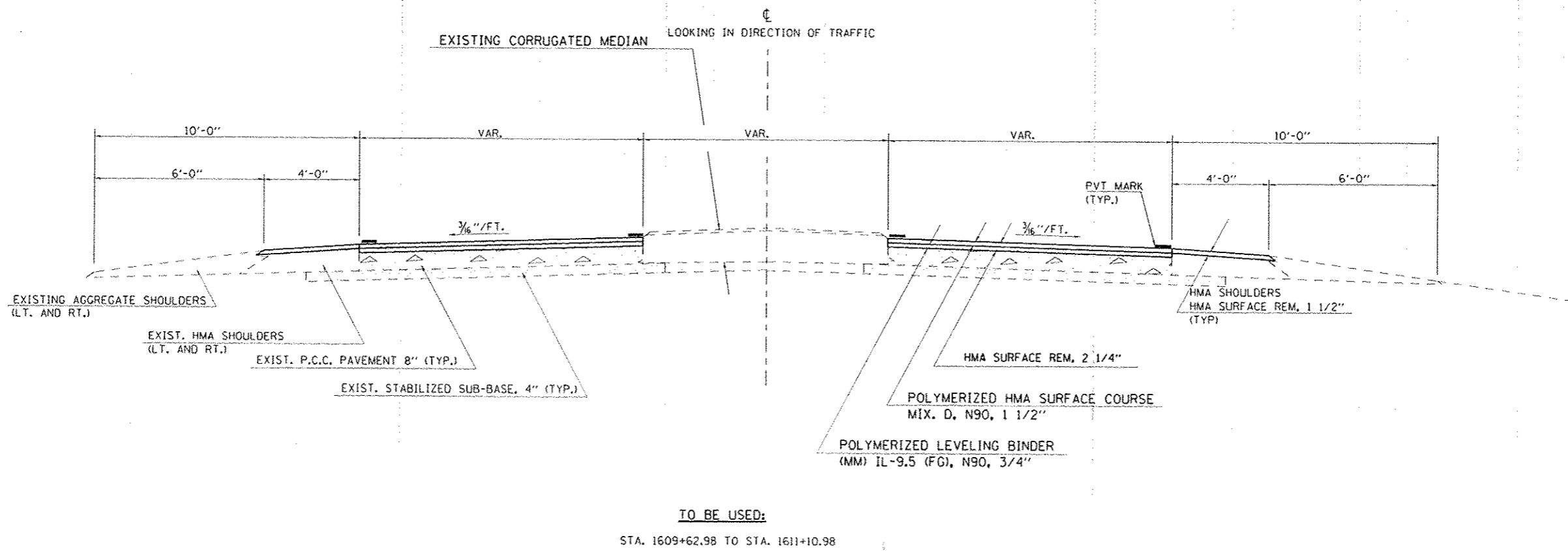
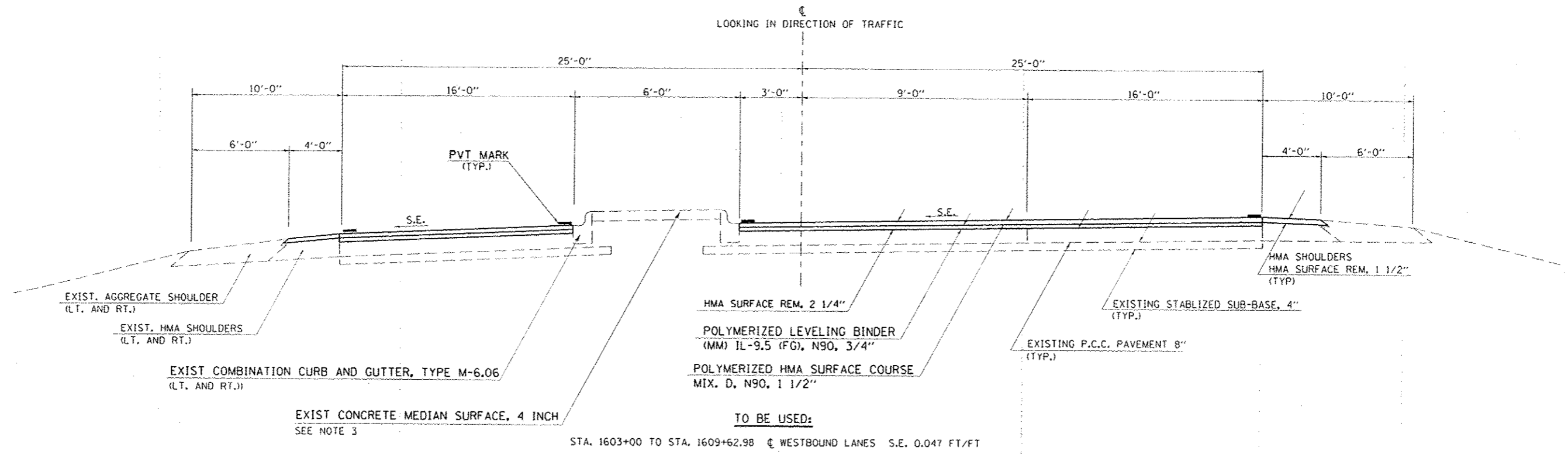
SUMMARY OF QUANTITIES - CONT

COUNTY:	GALLATIN
ROUTE:	FAP 331 (IL 13)
FUNDING:	80% FED / 20% STATE
LOCATION:	RURAL
	ROADWAY
	0005

CODE NUMBER	ITEM DESCRIPTION	UNIT	QUANTITY
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
70300280	TEMPORARY PAVEMENT MARKING - LINE 24"	FOOT	24
70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SQ 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
78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	254
Z0034105	MATERIAL TRANSFER DEVICE	TON	6,928

* SPECIALTY ITEM

FILE NAME : p:\110846RHD\INTEG\Illinois.gov\91001\Do	USER NAME : rrollow	DESIGNED : DRAWN : CHECKED : DATE :	REVISED : REVISED : REVISED : REVISED :	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUMMARY OF QUANTITIES	F.A.P. RTE. 331	SECTION *	COUNTY GALLATIN	TOTAL SHEETS 11	SHEET NO. 6	CONTRACT NO. 78429
SCALE: SHEET OF SHEETS STA. TO STA.						ILLINOIS FED. AID PROJECT					



FILE NAME	USER NAME
PROJECT	DATE

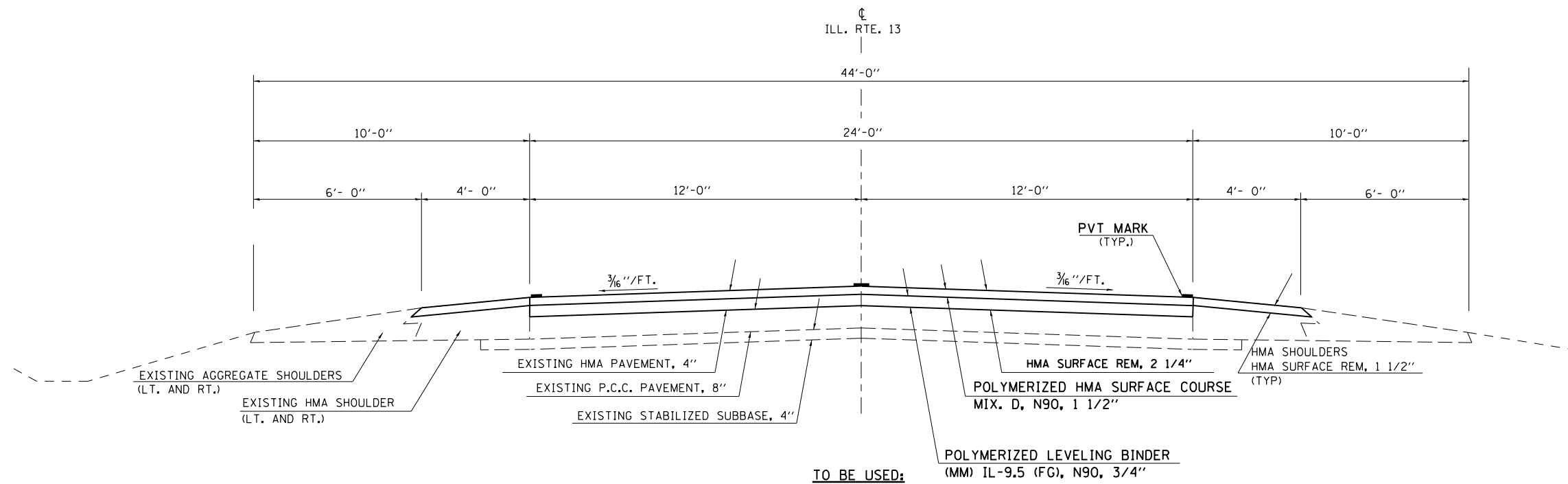
DESIGNED	REVISIONS
DRAWN	CHECKED
DATE	

DESIGNED	REVISIONS
DRAWN	CHECKED
DATE	

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SCALE:	SHEET	OF	SHEETS	STA.	TO	STA.
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F.A.P. RATE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
331		GALLATIN	11	7
CONTRACT NO. 78429				



STA. 1611+10.98 TO STA. 1654+33.15 BK.
 STA. 1656+99.48 AH. TO STA. 1688+83.5
 STA. 1691+35.5 TO STA. 1728+17.57 BK.
 STA. 1728+08.10 AH. TO STA. 1730+94
 STA. 1762+11 TO STA. 1808+14.02

FILE NAME =	USER NAME = rollavr	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TYPICAL SECTIONS				F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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Default	PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -		SCALE: SHEET OF SHEETS STA. TO STA.				ILLINOIS FED. AID PROJECT	CONTRACT NO. 78429			
	PLOT DATE = 8/10/2015	DATE -	REVISED -										

PAVEMENT RESURFACING SCHEDULE

			LENGTH (INFO ONLY)	POLY HMA LEVEL BINDER	POLY HMA SURFACE COURSE	HMA SURF REM 2 1/4	HMA SURF REM 1 1/2	BIT MATLS (PRIME COAT)	TEMP RAMP	HMA SHOULDERS
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

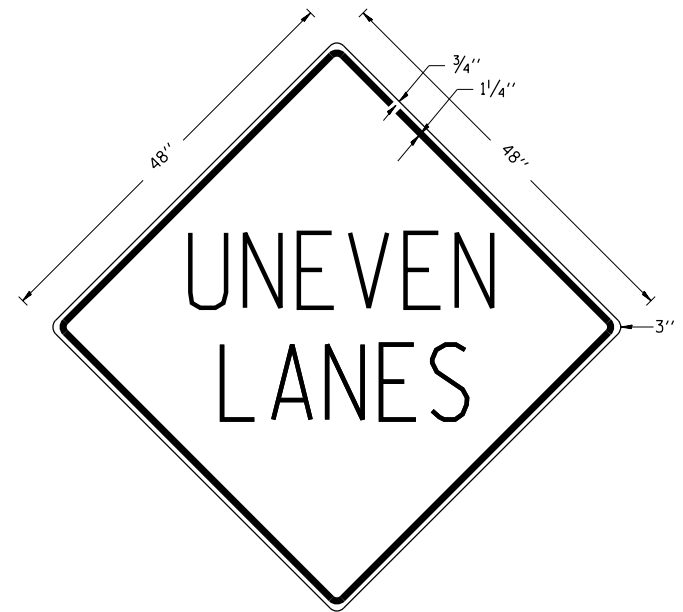
PAVEMENT MARKING SCHEDULE

STA TO STA			THERMOPLASTIC PAVEMENT MARKING					SHORT TERM PVMT MRK	TEMP PVMT MRK 4"	TEMP PVMT MRK 24"*	WORK ZONE PAVT MK REM	RAISED REFLECTIVE PAVT MKR EACH	RAISED REFL PAVT MKR REMOVAL EACH	DESCRIPTION
			LINE - 4"	LINE - YELLOW 4"			LINE - 24"							
			WHITE SOLID FT	LEFT SOLID FT	CENTER DASHED FT	RIGHT SOLID FT	WHITE SOLID* FT							
STA 603+00.00	TO STA 1609+62.98		1326	663		663	199	2652		951	9	9		
STA 609+62.98	TO STA 1611+10.98		296	148		148	45	592		213	2	2		
LT STA 611+10.98	TO STA 1615+85.00			475				475		159				
STA 611+10.98	TO STA 1654+33.15		8645		1081		1297	9726		3675	55	55		
EON STA 654+33.15	BK = STA 656+99.48 AH													
STA 656+99.48	TO STA 1688+83.50		6369		797		956	7166		2708	40	40		
GAP STA 688+83.50	TO STA 1691+35.50													
STA 691+35.50	TO STA 1728+17.57		7365		921		1105	8286		3131	47	47		
EON STA 728+17.57	BK = STA 728+08.10 AH													
STA 728+08.10	TO STA 1808+14.02		16012		2002		2402	18014	24	6854	101	101	*STATE POLICE MARKER	
RT STA 802+94.00	TO STA 1808+14.02					521		521		174				
RURAL TOTALS			40013	1286	4801	1332	24	6004	47432	24	17865	254	254	
			47432											

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

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.

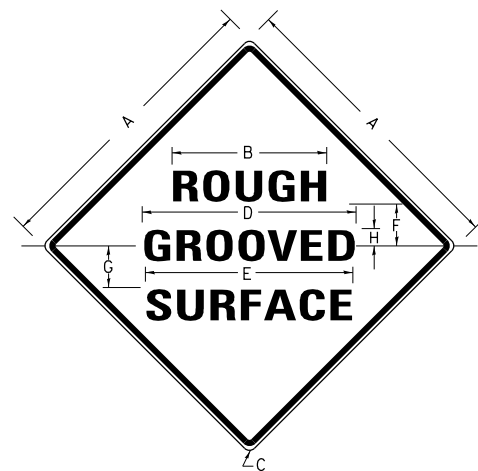
IF AT ANY TIME THE SIGNS ARE IN PLACE BUT NOT APPLICABLE, THEY SHALL BE TURNED FROM THE VIEW OF MOTORISTS OR COVERED AS DIRECTED BY THE ENGINEER.

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	7-23-04
RESIZED	5-08-08
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.

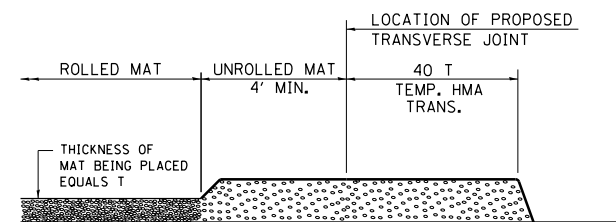
IF AT ANY TIME THE SIGNS ARE IN PLACE BUT NOT APPLICABLE, THEY SHALL BE TURNED FROM THE VIEW OF MOTORISTS OR COVERED AS DIRECTED BY THE ENGINEER.

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

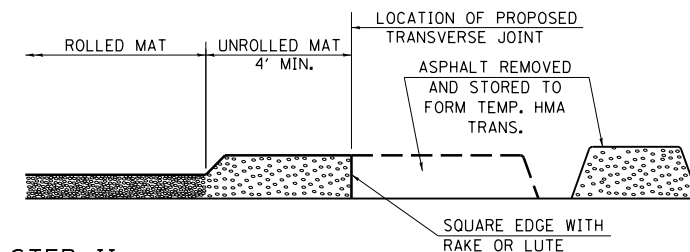
STD. 9-39

TEMPORARY HOT-MIX ASPHALT TRANSITIONS



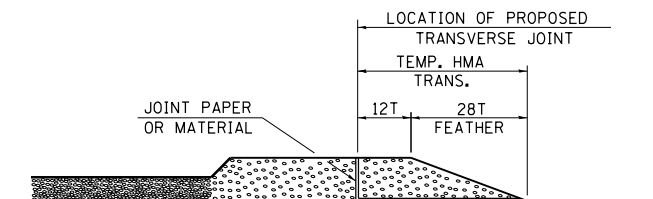
STEP I

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.



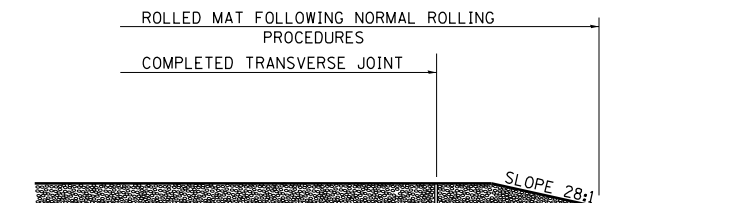
STEP II

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.

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

STD. 9-26

FILE NAME =	USER NAME = rollavr	DESIGNED -	REVISED -
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Default	PLOT DATE = 8/10/2015	CHECKED -	REVISED -
		DATE -	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

UNEVEN LANES, ROUGH GROOVED
 SURFACE, TEMP HMA TRANSITIONS

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
331	.	GALLATIN	11	11
			CONTRACT NO. 78429	
ILLINOIS FED. AID PROJECT				

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