

062

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
24	D9 PATCH 2019-1	JOHNSON	6	1
		ILLINOIS	78653	

FOR INDEX OF SHEETS, SEE SHEET NO. 3  
FOR SUMMARY OF QUANTITIES, SEE SHEET NO. 4  
FOR TRAFFIC DATA, SEE SHEET NO. 3

PROPOSED  
HIGHWAY PLANS

FAI ROUTE 24 (I-24)  
SECTION D9 PATCH 2019-1

PATCHING  
JOHNSON COUNTY

TOWNSHIPS

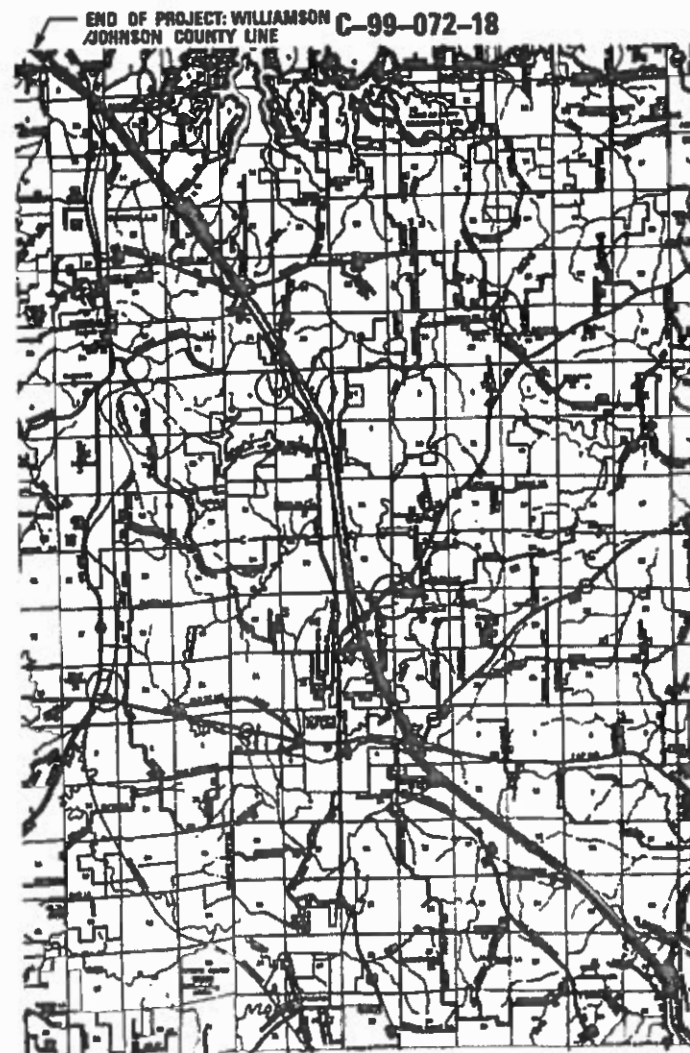
- SOUTHERN
- GOREVILLE
- TUNNEL HILL
- BLOOMFIELD
- VIENNA
- GRANTSBURG

POSTED SPEED : 70 MPH

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

PROJECT ENGINEER: CHARLES STEIN 618-351-5210  
PROJECT DESIGNER: MICHAELA DOLLINS 618-351-5215

CONTRACT NO. 78653



GROSS LENGTH = 221760.0 FT. = 44.0 MILES

START OF PROJECT: JOHNSON/MASSAC  
COUNTY LINE

D-89-042-18



LOCATION OF SECTION INDICATED THUS: - [Symbol] -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SUBMITTED August 6, 2018  
Jeffrey L. Keenan  
REGION FIVE ENGINEER

Oct 5, 2019  
E.A. Etkin  
ENGINEER OF DESIGN AND ENVIRONMENT

Oct 5, 2019  
Paul P. Chif  
DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

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OF THE STATE OF ILLINOIS

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Prepared By:

DISTRICT STUDIES & PLANS ENGINEER

Examined By:

*Nancy Die*  
DISTRICT LAND ACQUISITION ENGINEER

Examined By:

*Conn Nelson*  
DISTRICT PROGRAM DEVELOPMENT ENGINEER

Examined By:

*Karl Kelly*  
DISTRICT OPERATIONS ENGINEER

Examined By:

*[Signature]*  
DISTRICT PROJECT IMPLEMENTATION ENGINEER

Examined By:

*Doug J. Miller*  
DISTRICT CONSTRUCTION ENGINEER

Examined By:

*[Signature]*  
DISTRICT MATERIALS ENGINEER

USER NAME = DOLINSML	DESIGNED - MLD	REVISED -
	DRAWN - MLD	REVISED -
PLOT SCALE = 100 0000 ' / in	CHECKED -	REVISED -
PLOT DATE = 7-25-18	DATE - 7-25-18	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SIGNATURE SHEET

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
24	D9 PATCH 2019-1	JOHNSON	6	2
CONTRACT NO. 78653				
ILLINOIS FED. AID PROJECT				

INDEX OF SHEETS

SHEET NO.	DESCRIPTION
1	COVER SHEET
2	SIGNATURES
3	INDEX OF SHEETS, HIGHWAY STANDARDS, GENERAL NOTES, STATION EQUATIONS, AND TRAFFIC DATA
4	SUMMARY OF QUANTITIES
5	PATCHING SCHEDULE
6	MILL AND FILL

DESIGN MIX REQUIRED

LOCATIONS	HOT-MIX ASPHALT SURFACE COURSE
MIXTURE USE(S):	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N90
AC/PG:	PG64-22
ABR % (MAX):	SEE SPECIAL PROVISION
DESIGN AIR VOIDS:	4.0 %, 90 GYRATION DESIGN
MIXTURE COMPOSITION: (GRADATION MIXTURE):	IL-9.5MM
FRICTION AGGREGATE:	D SURFACE
MIXTURE WEIGHT:	112 LBS/SQ. YD/IN
QUALITY MANAGEMENT PROGRAM:	QC/QA
SUBLOT SIZE:	NA

HIGHWAY STANDARDS

000001-06: STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS  
 001001-02: AREAS OF REINFORCEMENT BARS  
 001006: DECIMAL OF AN INCH AND OF A FOOT  
 421201-07: 24' CRC PAVEMENT (WITH LUG SYSTEM)  
 442001-04: CLASS A PATCHES  
 701400-09: APPROACH TO LANE CLOSURE, FREEWAY/EXPRESSWAY  
 701401-11: LANE CLOSURE, FREEWAY/EXPRESSWAY  
 701411-09: LANE CLOSURE, MULTILANE, AT ENTRANCE OR EXIT RAMP, FOR SPEEDS ≥ 45 MPH  
 701901-07: TRAFFIC CONTROL DEVICES

TRAFFIC DATA

MP	0.00-5.58	5.58-12.05	12.05-14.04	14.04-21.93
2018				
P.V.=	11475	11965	11060	15310
S.U.=	645	1060	1565	645
M.U.=	6260	5555	5555	5555
ADT=	18380	18580	18180	21510
2038				
P.V.=	14000	14605	13490	18680
S.U.=	790	1295	1910	790
M.U.=	7640	6780	6780	6780
ADT=	22430	22680	22180	26250

STATION EQUATIONS

EB

333+29 (BK) = 333+29 (AH)  
 429+36 (BK) = 429+36 (AH)  
 524+83.93 (BK) = 102+46.58 (AH)  
 133+63.21 (BK) = 133+63.21 (AH)  
 287+96.99 (BK) = 287+98.99 (AH)  
 499+00.66 (BK) = 78+90.80 (AH)  
 236+52.37 (BK) = 236+57.01 (AH)  
 403+54.97 (BK) = 403+52.86 (AH)  
 456+69.50 (BK) = 50+54.47 (AH)

WB

333+29 (BK) = 1333+29 (AH)  
 1429+65 (BK) = 429+36 (AH)  
 524+83.93 (BK) = 102+46.58 (AH)  
 133+63.21 (BK) = 131+76.30 (AH)  
 287+96.99 (BK) = 287+98.99 (AH)  
 499+00.66 (BK) = 78+90.80 (AH)  
 236+52.37 (BK) = 597+79.11 (AH)  
 766+19.20 (BK) = 403+52.86 (AH)  
 456+69.50 (BK) = 50+54.47 (AH)

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.

AFTER A LIFT OF HOT MIX ASPHALT HAS BEEN PLACED, THE LANE SHALL REMAIN CLOSED TO TRAFFIC UNTIL THE NEW MAT HAS COOLED TO 150 DEGREES FAHRENHEIT

COMMITMENTS

NONE

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

INDEX OF SHEETS, HIGHWAY STANDARDS, MIX DESIGN,  
 GENERAL NOTES, STATION EQUATIONS, AND TRAFFIC DATA

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
24	D9 PATCH 2019-1	JOHNSON	6	3
ILLINOIS			FED. AID PROJECT	

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	DRAWN - MLD	REVISED -
PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -
PLOT DATE = 7-25-18	DATE - 7-25-18	REVISED -

SUMMARY OF QUANTITIES

CODE NO.	ITEM DESCRIPTION	UNIT	JOHNSON
			F.A.I. 24 (I-24) 100% STATE RURAL ROADWAY 0005
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	68
40603345	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N90	TON	25
44000157	HOT-MIX ASPHALT SURFACE REMOVAL, 2"	SQ YD	148
44200573	CLASS A PATCHES, TYPE I, 12 INCH	SQ YD	9
44200577	CLASS A PATCHES, TYPE II, 12 INCH	SQ YD	56
44200583	CLASS A PATCHES, TYPE IV, 12 INCH	SQ YD	698
44213000	PATCHING REINFORCEMENT	SQ YD	763
44213200	SAW CUTS	FOOT	2518
44213204	TIE BARS 3/4"	EACH	277
67100100	MOBILIZATION	L SUM	1
70100800	TRAFFIC CONTROL AND PROTECTION, STANDARD 701401	L SUM	1
70100420	TRAFFIC CONTROL AND PROTECTION, STANDARD 701411	EACH	12
* 78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	86
* 78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	60
X7015005	CHANGEABLE MESSAGE SIGN	CAL DA	28

\* SPECIALTY ITEM

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USER NAME = DOLLINSML	DESIGNED - MLD	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>SUMMARY OF QUANTITIES</b>		F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
PLOT SCALE = 100.0000' / in.	DRAWN - MLD	REVISED -				24	D9 PATCH 2019-1	JOHNSON	6	4
PLOT DATE = 7-25-18	CHECKED -	REVISED -		SCALE:		SHEET OF SHEETS	STA.	TO STA.	ILLINOIS FED. AID PROJECT	
DATE - 7-25-18	DATE - 7-25-18	REVISED -		CONTRACT NO. 78653						



EASTBOUND MILL AND FILL SCHEDULE											
LANE	STATION	LENGTH (FT)	WIDTH (FT)	DEPTH (IN)	SIZE (SQ YD)	HMA SURF REM, 2" (SQ YD)	HMA SURF CSE, MIX "D", N90 (TON)	BIT MATL (TACK COAT) (POUND)	THERMOPLASTIC PVMT MARK - LINE 4"		THERMOPLASTIC PVMT MARK - LINE 6"
									INSIDE WHITE	OUTSIDE YELLOW	SKIP DASH
STATION EQUATION: 333+29 = 1333+29											
STATION EQUATION: 1429+65 = 429+36											
STATION EQUATION: 524+83.93 = 102+46.58											
STATION EQUATION: 133+63.21 = 131+76.30											
DL	261+90	2	12	2	3	3	1	1	50		
STATION EQUATION: 287+96.99 = 287+98.99											
STATION EQUATION: 499+00.66 = 78+90.80											
DL	186+50	6	8	2	6	6	1	2			10
EB SUBTOTAL:						9	2	3	50		10

WESTBOUND MILL AND FILL SCHEDULE											
LANE	STATION	LENGTH (FT)	WIDTH (FT)	DEPTH (IN)	SIZE (SQ YD)	HMA SURF REM, 2" (SQ YD)	HMA SURF CSE, MIX "D", N90 (TON)	BIT MATL (TACK COAT) (POUND)	THERMOPLASTIC PVMT MARK - LINE 4"		THERMOPLASTIC PVMT MARK - LINE 6"
									INSIDE WHITE	OUTSIDE YELLOW	SKIP DASH
DL	155+90	12	30	2	40	40	5	18			10
DL	210+10	6	2	2	2	2	1	1	6		
DL	264+60	5	3	2	2	2	1	1	5		
STATION EQUATION: 333+29 = 1333+29											
STATION EQUATION: 1429+65 = 429+36											
DL	455+50	2	2	2	1	1	1	1	2		
DL	455+90	2	40	2	9	9	1	4			
DL	500+90	8	10	2	9	9	1	4	8		
DL	510+50	3	5	2	2	2	1	1			10
DL	510+60	8	3	2	3	3	1	2			
CL	510+60	20	3	2	7	7	1	3			10
DL	510+80	3	10	2	4	4	1	2			10
DL	510+90	6	7	2	5	5	1	3			10
STATION EQUATION: 524+83.93 = 102+46.58											
STATION EQUATION: 133+63.21 = 131+76.30											
STATION EQUATION: 287+96.99 = 287+98.99											
CL	446+60	6	30	2	20	20	3	9	6		
DL	446+80	7	40	2	32	32	4	14	7		
DL	481+80	2	12	2	3	3	1	2	2		
WB SUBTOTAL:						139	23	65	36		50
TOTAL:						148	25	68	86		60

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PLOT SCALE = 100,0000' / in.	DRAWN - MLD	REVISED -		SCALE:	SHEET	OF	SHEETS	STA.	TO STA.	24	D9 PATCH 2019-1	JOHNSON	6	6
PLOT DATE = 7-25-18	CHECKED -	REVISED -		CONTRACT NO. 78563										
	DATE - 7-25-18	REVISED -		ILLINOIS FED. AID PROJECT										