

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
24	D9 CRACK SEAL 2017-1	JOHNSON	5	1
		ILLINOIS	CONTRACT NO. 78540	

FOR INDEX OF SHEETS, SEE SHEET NO. 3

EQUATION STATIONS

@ STA. 499+01.37 BK. (@ MEDIAN) = P.C. STA. 78+90.80 AH. (@ MEDIAN)
 52' RT. STA. 236+52.37 BK. (@ MEDIAN) = STA. 236+57.01 AH. (@ EBL)
 52' LT. STA. 236+52.37 BK. (@ MEDIAN) = STA. 597.79.11 AH. (@ WBL)
 52' LT. STA. 403+54.97 BK. (@ EBL) = STA. 403+52.86 AH. (@ MEDIAN)
 52' RT. STA. 766+19.20 BK. (@ WBL) = STA. 403+52.86 AH. (@ MEDIAN)
 @ STA. 456+69.50 BK. (@ MEDIAN) = STA. 50+54.47 AH. (@ MEDIAN)
 40' LT. STA. 301+81.06 BK. (@ MEDIAN) = STA. 1301+73.45 AH. (TL W.B.L.)
 40' RT. STA. 301+81.06 BK. (@ MEDIAN) = STA. 301+86.33 AH. (TL E.B.L.)
 40' RT. STA. 1417+84.96 (TL W.B.L.) BK. = STA. 417+03.53 AH. (@ MEDIAN)
 40' LT. STA. 417+07.71 BK. (TL E.B.L.) = STA. 417+03.53 AH. (@ MEDIAN)
 STA. 446+93.78 BK. (@ MEDIAN) = STA. 32+66.19 AH. (@ MEDIAN)

OMISSION STATIONS

STA. 348+68.61 TO 350+50.11 (OMISSION) EBL
 STA. 408+05.70 TO 409+18.70 (OMISSION) EBL
 STA. 418+18.90 TO 419+78.88 (OMISSION) EBL
 STA. 442+43.90 TO 444+13.00 (OMISSION) EBL
 STA. 473+09.78 TO 474+98.61 (OMISSION) EBL
 STA. 258+37.13 TO 259+44.29 (OMISSION) EBL
 STA. 201+16.37 TO 202+08.62 (OMISSION) EBL
 STA. 253+53.07 TO 255+03.90 (OMISSION) EBL
 STA. 328+84.92 TO 330+73.00 (OMISSION) EBL
 STA. 94+17.08 TO 95+73.91 (OMISSION) EBL
 STA. 139+09.68 TO 140+28.18 (OMISSION) EBL
 STA. 239+87.16 TO 241+17.66 (OMISSION) EBL
 STA. 400+42.91 TO 401+54.74 (OMISSION) EBL
 STA. 412+49.34 TO 413+90.00 (OMISSION) EBL
 STA. 416+75.71 TO 417+79.28 (OMISSION) EBL

TRAFFIC DATA

2014 ADT
JOHNSON CO. LINE TO U.S. 45 16,000 WITH 35.6% TRUCKS

2015 ADT
JOHNSON CO. LINE TO U.S. 45 17,150 WITH 38.2% TRUCKS

TOWNSHIPS

BLOOMFIELD
VIENNA
GRANTSBURG

POSTED SPEED LIMIT

70 MPH

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

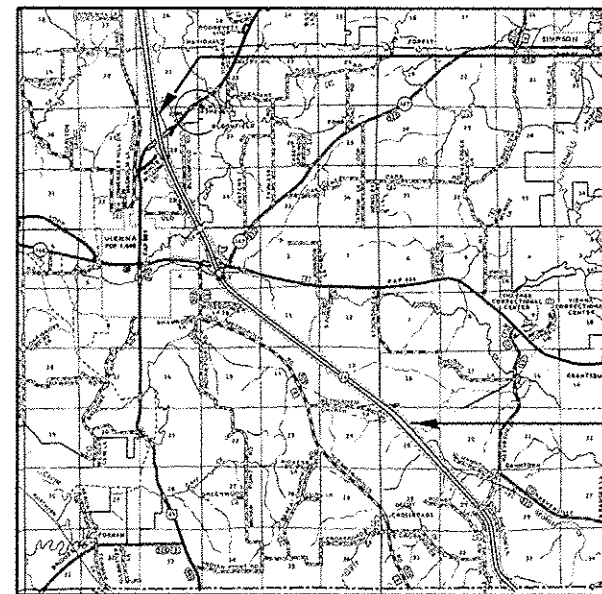
PROJECT ENGINEER CHARLES STEIN - (618) 351-5210
PROJECT DESIGNER AMANDA S. TINSLEY - (618) 351-5215

CONTRACT NO. 78540

PROPOSED
HIGHWAY PLANS

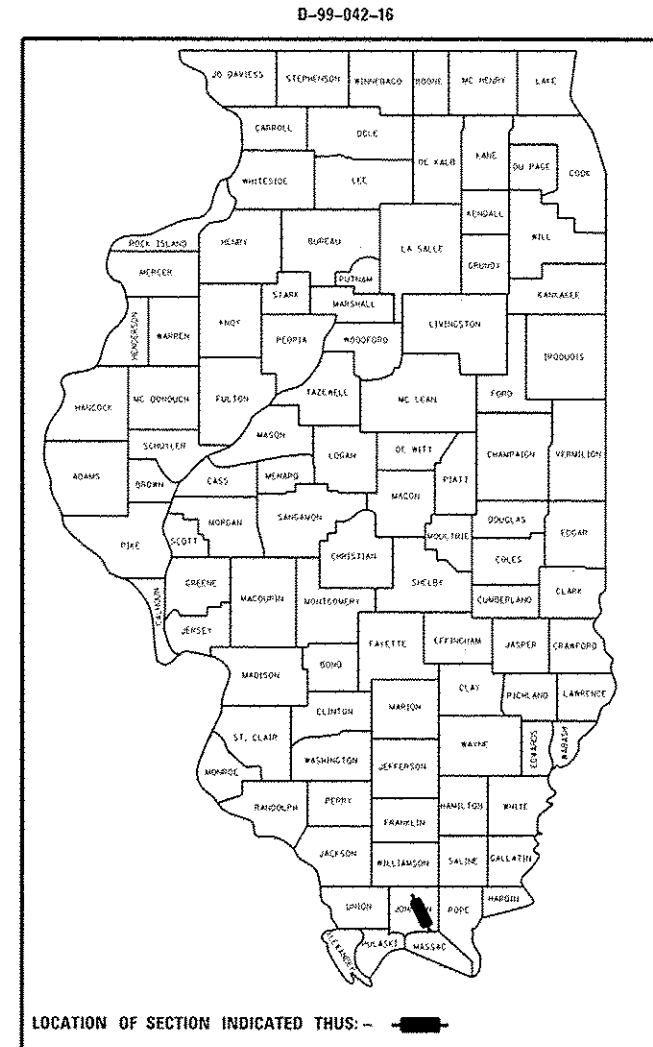
I-24 ROUTE (FAI 24)
SECTION D9 CRACK SEAL 2017-1
PROJECT
CRACK SEALING
JOHNSON COUNTY

C-99-042-16



PROJECT BEGINS
STA. 325+50
(M.P. 13.4) F.A.I. 24

PROJECT ENDS
STA. 325+19.13 (@ E.B. LANES)
(M.P. 21.429) F.A.I. 24



STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED June 13 2016

Jeffrey L. Keim
REGION FIVE ENGINEER

Aug 12 2016
Margaret M. Addis PE
actg ENGINEER OF DESIGN AND ENVIRONMENT

Aug 12 2016
Amelia [Signature]
DIRECTOR OF PROGRAM DEVELOPMENT

PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS

GROSS LENGTH = 85,092.25 FT. = 16.116 MILE
NET LENGTH = 83,233.09 FT. = 15.762 MILE
OMISSION LENGTH = 1,869.16 FT. = 0.354 MILE

Prepared By:

John E. [Signature]
DISTRICT STUDIES & PLANS ENGINEER

Examined By:

Nancy Lee [Signature]
DISTRICT LAND ACQUISITION ENGINEER

Examined By:

Con Niles [Signature]
DISTRICT PROGRAM DEVELOPMENT ENGINEER

Examined By:

Carl [Signature]
DISTRICT OPERATIONS ENGINEER

Examined By:

KRL [Signature]
DISTRICT PROJECT IMPLEMENTATION ENGINEER

Examined By:

Daryl J. [Signature]
DISTRICT CONSTRUCTION ENGINEER

Examined By:

[Signature]
DISTRICT MATERIALS ENGINEER

FILE NAME :	USER NAME : unolegex	DESIGNED -	REVISED -
pu\jlb94848\INTEG,illinois.gov\PILOT\Documents\1007 Office\District 9\Projects\78540\78540-shr-plan.dgn	ORAM\ca\CA08hasa\78540-shr-plan.dgn	CHECKED -	REVISED -
Default	PLOT SCALE = 100.0000 1" = 10'	DATE -	REVISED -
	PLOT DATE = 4/8/2016		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SIGNATURE SHEET

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
24	09 CRACK SEAL 2017-1	JOHNSON	5	2
			78540	

SCALE: SHEET OF SHEETS STA. TO STA.

(ILLINOIS) FED. AID PROJECT

INDEX OF SHEETS

SHEET NO.	DESCRIPTION
1	COVER SHEET
2	SIGNATURE SHEET
3	INDEX OF SHEETS, STATION EQUATIONS & OMISSIONS, GENERAL NOTES, ILLINOIS HIGHWAY STANDARDS, & COMMITMENTS
4	SUMMARY OF QUANTITIES
5	SCHEDULE OF QUANTITIES

GENERAL NOTES

FACTORS USED FOR QUANTITY CALCULATIONS ARE AS FOLLOWS:
JOINT SEALER.....1.25 LB/FT

THE QUANTITY USED FOR CRACK FILLING IS AN ESTIMATE. THE ACTUAL AMOUNT USED WILL BE DETERMINED BY THE ENGINEER.

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 101.17 REGARDLESS IF TRACK MOUNTED OR WHEELED.

HIGHWAY STANDARDS

- 701411-09 Ln Closure MultiLn- Entr Or Exit Ramp 45 MPH Or More
- 701420-08 Ln Closure MultiLn- Intermittant Or Moving Op 45MPH Or More
- 701901-05 Traf Control Devices

STATION EQUATIONS & OMISSIONS

STATION EQUATIONS FOR I-24 JOHNSON COUNTY

CI STA. 499+01.37 BK. (CI MEDIAN) = P.C. STA. 78+90.80 AH. (CI MEDIAN)
52' RT. STA. 236+52.37 BK. (CI MEDIAN) = STA. 236+57.01 AH. (CI EBL)
52' LT. STA. 236.52.37 BK. (CI MEDIAN) = STA. 597.79.11 AH. (CI WBL)
52' LT. STA. 403+54.97 BK. (CI EBL) = STA. 403+52.86 AH. (CI MEDIAN)
52' RT. STA. 766+19.20 BK. (CI WBL) = STA. 403+52.86 AH. (CI MEDIAN)
CI STA. 456+69.50 BK. (CI MEDIAN) = STA. 50+54.47 AH. (CI MEDIAN)

STATION OMISSIONS FOR I-24 JOHNSON COUNTY

STA. 348+68.61 TO 350+50.11 (OMISSION) EBL
STA. 408+05.70 TO 409+18.70 (OMISSION) EBL
STA. 418+18.90 TO 419+78.88 (OMISSION) EBL
STA. 442+43.90 TO 444+13.00 (OMISSION) EBL
STA. 473+09.78 TO 474+98.61 (OMISSION) EBL
STA. 258+37.13 TO 259+44.29 (OMISSION) EBL

STA. 348+17.89 TO 349+99.39 (OMISSION) WBL
STA. 408+05.70 TO 409+18.70 (OMISSION) WBL
STA. 417+83.90 TO 419+42.26 (OMISSION) WBL
STA. 442+40.13 TO 444+18.33 (OMISSION) WBL
STA. 473+62.80 TO 475+65.83 (OMISSION) WBL
STA. 619+68.69 TO 620+84.19 (OMISSION) WBL

COMMITMENTS

NONE.

FILE NAME =	USER NAME = knopen	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	INDEX OF SHEETS, STATION EQUATIONS & OMISSIONS, GENERAL NOTES, & HIGHWAY STANDARDS	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
p:\11\284E81CINTEG\Illinois.gov\PIWIDOT\Documents\1007 Offices\District 9\Projects\78540\Drawings\CAD\Sheets\78540-sht-plandgn		CHECKED -	REVISED -			24	D9 CRACK SEAL 2017-1	JOHNSON	5	3	
PLOT SCALE = 100.0000' / 1"		DATE -	REVISED -			78540					
PLOT DATE = 6/22/2016						ILLINOIS FED. AID PROJECT					
Default				SCALE:	SHEET OF SHEETS	STA.	TO STA.				

SUMMARY OF QUANTITIES

LOCATION:	RURAL
ROUTE:	I-24, (FAI 24)
FUNDING:	100% STATE
COUNTY:	JOHNSON
TOTAL QUANTITY	ROADWAY 0005

CODE NUMBER	ITEM DESCRIPTION	UNIT	TOTAL QUANTITY	ROADWAY
45100100	CRACK ROUTING (PAVEMENT)	FOOT	83,223	83,223
45100200	CRACK FILLING	POUND	104,029	104,029
67100100	MOBILIZATION	L SUM	1	1
70100420	TRAFFIC CONTROL AND PROTECTION, STANDARD 701411	EACH	4	4
70106800	CHANGEABLE MESSAGE SIGN	CAL MO	4	4

5

SCHEDULE OF QUANTITIES						
CENTER OF ROADWAY LONGITUDINAL CRACKS ONLY						
LOCATION I-24 WB	STA.	TO	STA.	LENGTH (FT)	CRACK ROUTING (FT)	CRACK FILLING (POUND)
JOHNSON CO.					(FT)	(POUND)
I-24 (WB)	320+50.	TO	348+17.89	2,768	2,768	3,460
SN 040-0039	348+17.89	TO	349+99.39	GAP		
I-24 (WB)	349+99.39	TO	408+05.7	5,806	5,806	7,258
SN 040-0042	408+05.7	TO	409+18.7	GAP		
I-24 (WB)	409+18.7	TO	417+83.9	865	865	1,082
SN 040-0043	417+83.9	TO	419+42.26	GAP		
I-24 (WB)	419+42.26	TO	442+40.13	2,298	2,298	2,872
SN 040-0045	442+40.13	TO	444+18.33	GAP		
I-24 (WB)	444+18.33	TO	473+62.8	2,944	2,944	3,681
SN 040-0048	473+62.8	TO	475+65.83	GAP		
I-24 (WB)	475+65.83	TO	499+01.37	2,336	2,336	2,919
I-24 (WB)	499+01.37 BK	=	78+90.80 AH	STA EQ		
I-24 (WB)	78+90.8	TO	236+52.37	15,762	15,762	19,702
I-24 (WB)	236+52.37 BK	=	597+79.11 AH	STA EQ		
I-24 (WB)	597+79.11	TO	619+68.69	2,190	2,190	2,737
SN 040-0050	619+68.69	TO	620+84.19	GAP		
I-24 (WB)	620+84.19	TO	687+83.36	6,699	6,699	8,374
TOTAL					41,668	52,085

- CONT. SCHEDULE OF QUANTITIES						
CENTER OF ROADWAY LONGITUDINAL CRACKS ONLY						
LOCATION I-24 EB	STA.	TO	STA.	LENGTH (FT)	CRACK ROUTING (FT)	CRACK FILLING (POUND)
JOHNSON CO.					(FT)	(POUND)
I-24 (EB)	320+50.	TO	348+68.61	2,819	2,819	3,523
SN 040-0040	348+68.61	TO	350+50.11	GAP		
I-24 (EB)	350+50.11	TO	408+05.7	5,756	5,756	7,194
SN 040-0041	408+05.7	TO	409+18.7	GAP		
I-24 (EB)	409+18.7	TO	418+18.9	900	900	1,125
SN 040-0044	418+18.9	TO	419+78.88	GAP		
I-24 (EB)	419+78.88	TO	442+43.9	2,265	2,265	2,831
SN 040-0046	442+43.9	TO	444+13.	GAP		
I-24 (EB)	444+13.	TO	473+09.78	2,897	2,897	3,621
SN 040-0047	473+09.78	TO	474+98.61	GAP		
I-24 (EB)	474+98.61	TO	499+01.37	2,403	2,403	3,003
I-24 (EB)	499+01.37 BK	=	78+90.80 AH	STA EQ		
I-24 (EB)	78+90.8	TO	236+52.37	15,762	15,762	19,702
I-24 (EB)	236+52.37 BK	=	236+57.01 AH	STA EQ		
I-24 (EB)	236+57.01	TO	258+37.13	2,180	2,180	2,725
SN 040-0049	258+37.13	TO	259+44.29	GAP		
I-24 (EB)	259+44.29	TO	325+19.13	6,575	6,575	8,219
TOTAL					41,555	51,944