STATE OF ILLINOIS

DEPARTMENT OF TRANSPORTATION

PROPOSED HIGHWAY PLANS

FAS ROUTE 1780 (OLD US 50) SECTION (24,24-1)RS-4 **PROJECT** CM-SMART RESURFACING & PATCHING **CLINTON COUNTY**

C-98-075-20

TRAFFIC DATA OLD US 50 LOCATION 6600 (ACTUAL) 8100 (ESTIMATED) 2044 ADT SU%

FOR INDEX OF SHEETS, SEE SHEET NO.

R 4 W R 3 W **BEGIN PROJECT** STA. 1439+70 LAT: 38.609316 LONG:-89:466828

END PROJECT STA. 1705+81 LAT: 38.610192 LONG:-89.374036

END SMART RESURFACING STA, 1499+54 LAT: 38,624903 LONG:-89.374957 1.13 MILES (5,966.4 FT)

0-98-061-20

SECTION

(24.24-1)R5-I

CLINTON 9 1



STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

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BRIDGE OMISSION - SN 014-0069 STA. 1463+46.5 TO STA. 1467+25.5 (379 FT)

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 EXCAVATORS 1-800-892-0123 OR 811

PROJECT ENGINEER: TIM PADGETT (618) 346-3325 PROJECT MANAGER: RAHSHUN MILLER (618) 346-3196

GROSS LENGTH = 26,611.2 FT. = 5.04 MILE NET LENGTH = 26,232.2 FT. = 4.96 MILE

CONTRACT NO. 76N32

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INDEX OF SHEETS

- 1 COVER SHEET
- 2 INDEX OF SHEETS, GENERAL NOTES, HIGHWAY STANDARDS, MIXTURE REQUIREMENTS & COMMITMENTS
- 3-4 SUMMARY OF QUANTITIES
- 5 TYPICAL SECTIONS
- 6 SCHEDULE OF QUANTITIES
- 7 PAVEMENT MARKING SHEET
- 8 LOCATION MAP
- 9 TIES & SURVEY MONUMENTS DETAILS

HIGHWAY STANDARDS

000001-07 001006	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS DECIMAL OF AN INCH AND OF A FOOT
420701-03	PAVEMENT WELDED WIRE REINFORCEMENT
442101-09	CLASS B PATCHES
701011-04	OFF-ROAD MOVING OPERATIONS, 2L, 2W DAY ONLY
701201-05	LANE CLOSURES, 2L, 2W, DAY ONLY FOR SPEEDS ≥ 45 MPH
701301-04	LANE CLOSURES, 2L, 2W, SHORT TIME OPERATIONS
701306-04	LANE CLOSURES, 2L, 2W, SLOW MOVING OPERATIONS DAY ONLY FOR SPEEDS ≥ 45 MPHLANE CLOSURES, 2L, 2W,
701311-03	SLOW MOVING OPERATIONS DAY ONLY
701336-07	LANE CLOSURES, 2L, 2W, WORK AREAS IN SERIES FOR SPEEDS ≥ 45 MPH
701501-06	URBAN LANE CLOSURE, 2L, 2W, UNDIVIDED
701901-08	TRAFFIC CONTROL DEVICES
780001-05	TYPICAL PAVEMENT MARKINGS
781001-04	TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS

MIXTURE REQUIREMENTS

ROUTE	FAS 1780 (OLD US 50)
SECTION	(24-24-1)RS-4
COUNTIES	CLINTON
CONTRACT	76N32

DESCRIPTION	SMART - RESURFACING & PATCHING OF OLD US 50 FROM HILMES RD. TO
	0.2 MI WEST OF CARTER ST AND JUST PATCHING FROM CARTER ST. TO IL 127

ADT (CONSTRUCTION YR):	6600
MU%	1.4
SU%	2.4
20 YR. ESAL'S:	0.73

USER NAME = millerraj

PLOT DATE = 1/17/2020

PLOT SCALE = 100.0000 / in.

MIXTURE USE	SURFACE	PATCHING	PARTIAL DEPTH PATCHING		
AC/PG	PG 64-22	PG 64-22	PG 64-22		
RAP % (MAX)	SEE SPECIAL PROVISION	SEE SPECIAL PROVISION	SEE SPECIAL PROVISION		
DESIGN AIR VOIDS	4.0% @ Ndes=70	4.0% @ Ndes=70	4.0% @ Ndes=70		
MIX COMPOSITION (GRADATION MIXTURE)	IL 9.5	IL 19.0	IL 9.5		
FRICTION AGG	MIXTURE "D"	MIXTURE "B"	MIXTURE "C"		
QUALITY MGMT PROGRAM	QCP	QC/QA	QC/QA		

PLAN QUANTITIES FOR BITUMINOUS CONCRETE SURFACE COURSE ITEMS ARE CALCULATED USING A UNIT WEIGHT OF 112 LB/SQ YD/IN (59.8 KG/SQ M/25 MM THICKNESS).

DESIGNED

CHECKED

DRAWN

DATE

GENERAL NOTES

(1) UTILITIES KNOWN TO HAVE FACILITIES WITHIN THE PROJECT AREA ARE AS FOLLOWS:

	AERIAL	BURIED
*AMEREN ILLINOIS (GAS & ELECTRIC)	Х	Х
*AT&T ILLINOIS (COMMUNICATIONS)	X	Х
*VILLAGE OF BECKEMEYER (WATER & SANITARY SEWER)		X
*CITY OF CARLYLE (WATER & SANITARY SEWER)		Х
*CARLYLE NORTH WATER COMPANY (WATER)		Х
*CHARTER COMMUNICATIONS, INC. (CABLE TV)	X	Х
*CLINTON COUNTY ELECTRIC COOPERATIVE, INC (ELECTRIC)	Х	Х
*NATURAL GAS PIPELINE COMPANY OF AMERICA (PIPELINE)		X

MEMBERS OF J.U.L.I.E. (800)-892-0123 ARE INDACATED BY*. NON-J.U.L.I.E. MEMBERS MUST BE NOTIFIED INDIVIDUALLY.

- 2 NO SURVEY WAS PERFORMED FOR THIS PROJECT. THE PLANS WERE CREATED USING MICROFILM AND FIELD MEASUREMENTS
- ③ ONLY SHORT-TERM PAVEMENT MARKING REMOVAL FROM FINAL SURFACE SHALL BE PAID FOR AS "SHORT TERM PAVEMENT MARKING REMOVAL".
- (4) NO OVERNIGHT LANE CLOSURES WILL BE PERMITTED.
- THE PROPOSED PAVEMENT MARKINGS AND TEMPORARY PAVEMENT MARKINGS SHALL MATCH EXISTING PAVEMENT MARKINGS AND CONTINUE THROUGHOUT THE JOB AND TIE INTO THE EXISTING PAVEMENT MARKINGS AT THE END OF THE RESURFACING PART OF THE PROJECT.
- THE CONTRACTOR SHALL PROTECT ALL SURVEY MONUMENTS TO ENSURE THEY ARE VISIBLE UPON COMPLETION OF THE RESURFACING. THE PROCESS ESTABLISHED BY THE CONTRACTOR SHALL BE APPROVED BY THE RESIDENT ENGINEER PRIOR TO CONSTRUCTION AND THE COST FOR THIS WORK SHALL BE INCLUDED IN THE COST OF THE RESURFACING.
- THE THICKNESS OF HMA MIXTURE SHOWN ON THE PLANS IS THE NOMINAL THICKNESS. DEVIATIONS FROM THE NOMINAL THICKNESS WILL BE PERMITTED WHEN SUCH DEVIATIONS OCCURS DUE TO IRREGULARITIES IN THE EXISTING SURFACE OR BASE ON WHICH THE HMA MIXTURE IS PLACED.
- 8) MATERIAL TRANSFER DEVICE CAN OPERATE IN AN UNLOADED CONDITION ON STRUCTURE SN 014-0069.

COMMITMENTS NONE

SCALE: NTS

REV. - MS

REVISED REVISED STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

| F.A.S. | SECTION | COUNTY | TOTAL | SHEET | SHOP | SHEETS | STA. | TO STA. | SHEETS | STA. | SHEETS | SHEETS

CONSTR. CODE
100%
STATE

ROADWAY CODE TOTAL 0005 NO. ITEM UNIT QUANT I TY RURAL 40600290 BITUMINOUS MATERIALS (TACK COAT) POUND 7007 7007 40600982 HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT SQ YD 111 111 40600990 TEMPORARY RAMP SQ YD 186 186 40604062 HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N70 TON 1309 1309 SQ YD 44000155 HOT-MIX ASPHALT SURFACE REMOVAL, 1 1/2" 15460 15460 44200050 WELDED WIRE REINFORCEMENT SQ YD 1215 1215 44201047 CLASS B PATCHES, TYPE III, 16 INCH SQ YD 88 88 44201048 CLASS B PATCHES, TYPE IV, 16 INCH SQ YD 1130 1130 44201299 DOWEL BARS 1 1/2" EACH 154 154 44213200 | SAW CUTS FOOT 2709 2709 44213204 TIE BARS 3 / 4 " EACH 462 462 67000400 ENGINEER'S FIELD OFFICE, TYPE A CAL MO 3 3 67100100 MOBILIZATION L SUM 1 1 70100450 TRAFFIC CONTROL AND PROTECTION, STANDARD 701201 L SUM 1 1

100% STATE

			SIAIE	
				ROADWAY
CODE			TOTAL	0005
NO.	ITEM	UNIT	QUANTITY	RURAL
70100460	TRAFFIC CONTROL AND PROTECTION, STANDARD 701306	L SUM	1	1
70100600	TRAFFIC CONTROL AND PROTECTION, STANDARD 701336	L SUM	1	1
70102620	TRAFFIC CONTROL AND PROTECTION, STANDARD 701501	L SUM	1	1
70107025	CHANGEABLE MESSAGE SIGN	CAL DA	65	65
70200100	CHORT TERM DAVEMENT MARKING	5007	F 10	F.1.0
70300100	SHORT TERM PAVEMENT MARKING	FOOT	510	510
70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SQ FT	170	170
70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	16122	16122
78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	16122	16122
78001110	PAINT PAVEMENT MARKING - LINE 4"	FOOT	2952	2952
78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	199	199
78100300	REPLACEMENT REFLECTOR	EACH	129	129
78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	199	199
X4406020	PARTIAL DEPTH REMOVAL, TYPE I, 2"	SQ YD	239	239
X4406220	PARTIAL DEPTH REMOVAL, TYPE II, 2"	SQ YD	578	578

* SPECIALTY ITEM

STATE OF ILLINOIS
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CONSTR CODE 100% STATE

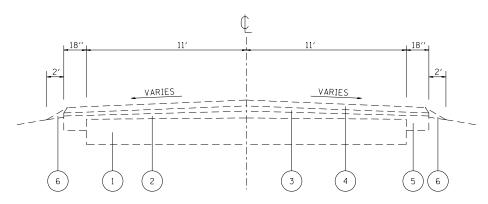
				ROADWAY
CODE			TOTAL	0005
NO.	ITEM	UNIT	QUANT I TY	RURAL
X4421000	PARTIAL DEPTH PATCHING	TON	99	99
X7030005	TEMPORARY PAVEMENT MARKING REMOVAL	SQ FT	5374	5374
Z0033700	LONGITUDINAL JOINT SEALANT	FOOT	5605	5605
Z0034105	MATERIAL TRANSFER DEVICE	TON	1308	1308
Z0070100	SURVEY MONUMENT COVER ASSEMBLY	EACH	6	6

USER NAME = millerraj	DESIGNED -	REVISED -	
	DRAWN -	REVISED -	
PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -	
PLOT DATE = 1/17/2020	DATE -	REVISED -	
PLOT DATE = 1/17/2020	DATE -	REVISED -	

l RTI					F.A.S. RTE.	SECT	ΓΙΟΝ		COUNTY	TOTAL SHEETS	SHEET NO.				
SUMMARY OF QUANTITIES						1780	(24,24	-1)RS-4		CLINTON	9	4			
													CONTRACT	NO. 76	5N32
SCALE: NTS	SHEET 2	2	OF :	2 SHEE	ΓS	STA.	TO STA.				ILLINOIS	FED. AI	D PROJECT		

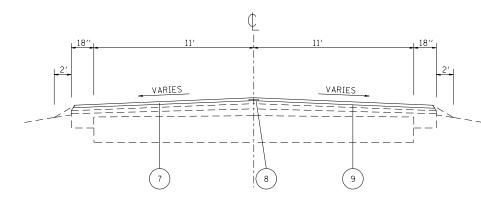
EXISTING TYPICAL SECTION

STA. 1439+70 TO STA. 1463+46.5 BRIDGE OMISSION STA. 1463+46.5 TO STA. 1467+25.5 STA. 1467+25.5 TO STA. 1499+54



EXISTING TYPICAL SECTION

STA. 1499+54 TO STA. 1705+81 (PATCHING ONLY)



PROPOSED TYPICAL SECTION

STA. 1439+70 TO STA. 1463+46.5 BRIDGE OMISSION STA. 1463+46.5 TO STA. 1467+25.5 STA. 1467+25.5 TO STA. 1499+54

LEGEND

- ① EXISTING PCC PAVEMENT
- ② EXISTING RESURFACING
- ③ EXISTING LEVELING BINDER COURSE, 3/4"
- ④ EXISTING HMA CONCRETE SURFACE COURSE, MIX "D", CLASS I, 1 1/4"
- (5) EXISTING HMA SHOULDERS
- 6 EXISTING AGGREGATE SHOULDER
- \bigcirc PROPOSED HMA SURFACE COURSE, IL -9.5, MIX "D", N70, 1 1/2"
- PROPOSED LONGITUDINAL JOINT SEALANT
- PROPOSED BITUMINOUS MATERIAL (TACK COAT)



HOT-MIX ASPHALT SURFACE REMOVAL 1 1/2"

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PLOT DATE = 1/17/2020	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

			RESU	RFACING SCHEDULE	<u> </u>		
STATION		DN	HMA SURFACE REMOVAL 1 1/2 "	LONGITUDINAL JOINT SEALANT	BITUMINOUS MATERIALS (TACK COAT)	HMA SURFACE COURSE IL-9.5 "MIX D" N70	
			SQ YD FOOT		POUND	TON	
OLD US 50		S 50					
1439+70 TO 1463+46.5		1463+46.5	6602.0	2377	2970.6	555	
1463+46.5 TO 1467+25.5		1467+25.5					
1467+25.5 TO 1499+54		1499+54	8969.0	3229	4035.6	754	
TOTAL:		L:	*15460	5605	7007	1309	

^{*}NOTE: SUBTRACT 111 SQYD FOR HMA BUTT JOINTS

	CLASS B PATCHING 16" SCHEDULE													
:	STATION	LANE		LANE		TY-III	TY-IV	SAW CUTS	DOWEL BARS 1 1/2"	TIE BARS 3/4"	WELDED WIRE REINFORCEMENT			
		WTH.	LTH.	SQ YDS	SQ YDS	FT	EACH	EACH	SQ YDS					
WB	1685+86	1685+86 11 250			306	533	20	125	306					
EB	1687+76	11	120		147	273	20	60	147					
WB	1688+11	11	16	20		59	20		20					
EB	1688+11	11 16		20		59	20		20					
EB	1690+66	11	470		574	1421	20	235	574					
WB	1693+11	11	16	20		59	20		20					
EB	1693+11 11 16		16	20		59	20		20					
	SUB T	OTAL:		80	1027	2463	140	420	1105					
	PROJECTED FA	AILURES 1	.0%	8	103	246	14	42	110					
	тот	AL:		88	1130	2709	154	462	1215					

TEMPORARY RAMPS/BUTT-JOINT SCHEDULE												
LOCAT	TION	WIDTH	LENGTH	TEMPORARY RAMPS	HMA SURFACE REMOVAL BUTT-JOINT							
DESCRIPTION	STATION	(FT)	(FT)	(SY)	(SY)							
BEGINING SMART	1439+71	25	10	9.7	27.8							
HILMES RD.	1442+20	75	10	29.2								
HILMES RD.	1442+20	64	10	24.9								
STOLLETOWN RD.	1455+59	239	10	92.9								
BRIDGE OMISSION	1463+46.6	25	10	9.7	27.8							
BRIDGE OMISSION	1467+25.6	25	10	9.7	27.8							
ENDING SMART	1499+54	25	10	9.7	27.8							
	TOTAL:			186	111							

								PAVEMENT	MARKING SCHEDULE							
			THER	MOPLASTIC LIN	PLASTIC LINE 4" F				SHORT TERM	TEMPORARY			RAISED REFLECTIVE			
	TATIO	. [WHITE	YEI	LLOW	YELLOW	WHITE	SHORT TERM PAVEMENT MARKING	PAVEMENT MARKING	PAVEMENT	TEMPORARY PAVEMENT MARKING REMOVAL	PAVEMENT MARKER		PAVEMENT MARKER REPLACEMENT		REPLACEMENT REFLECTOR
5			SOLID LINE	SKIP-DASH	NO PASSING	SOLID LINE FOOT	SOLID LINE FOOT		REMOVAL SQFT	MARKING 4" FOOT	SQFT	EACH	REMOVAL	EACH		
			FOOT	FOOT	FOOT								EACH			
OI	LD US	50														
1439+70	то	1463+46.5	4753	143	1453			216	72	6349	2116	30	30			
1463+46.5	то	1467+25.5							BRIDGE OMIS	SSION						
1467+25.5	то	1499+54	6457	1133	2183			294	98.0	9773	3258	40	40			
1499+54	то	1705+81				1476	1476					129	129	129		
SUB TOTAL: 112		11210	1276	3636	1476	1476										
TOTAL:			16122		29	52	510	170	16122	5374	199.0	199.0	129			

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PLOT DATE = 1/17/2020	DATE -	REVISED -

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

				=	F.A.S. RTE	F.A.S. SECTION			TOTAL SHEETS	SHEET NO.			
	SCHEDULE OF QUANTITIES										CLINTON	9	6
											CONTRACT	NO. 76	5N32
SCALE: NTS	SHEET	1	OF	2	SHEETS	STA.	TO STA.		ILLINOIS	FED. AID	PROJECT		

		LENCTU	WIDT!	PARTIAL DEPT	H REMOVAL 2"	PARTIAL DEPTH
STATION	EB/WB	LENGTH	WIDTH	TYPE I	TYPE II	PATCHING
		FT	FT	SQ YD	SQ YD	TON
1640+36	EB	6	11	7.3		1.0
1640+36	WB	6	11	7.3		1.0
1644+36	EB	6	11	7.3		1.0
1644+36	WB	6	11	7.3		1.0
1646+36	EB	10	11	7.5	12.2	1.4
1646+36	WB	10	11		12.2	1.4
1649+36	EB	10	11		12.2	1.4
1649+36	WB	10	11		12.2	1.4
1650+36	EB	10	11		12.2	1.4
1650+36	WB	10	11		12.2	1.4
1653+36	EB	6	11	7,3	12.2	1.0
1653+36	WB	6	11	7.3		1.0
1658+36	EB	10	11	7.5	12.2	1.4
1658+36	WB	10	11		12.2	1.4
1661+36	EB	10	11		12.2	1,4
1661+36	WB	10	11		12.2	1.4
1665+36	EB	6	11	7.3	12.2	1.0
1665+36	WB	6	11	7.3		1.0
1666+36	EB	10	11	,13	12.2	1.4
1666+36	WB	10	11		12.2	1.4
1667+36	EB	10	11		12.2	1.4
1667+36	WB	10	11		12.2	1.4
1669+56	EB	10	11		12.2	1.4
1669+56	WB	10	11		12.2	1.4
1670+36	EB	10	11		12.2	1.4
1670+36	WB	10	11		12.2	1.4
1671+36	EB	16	11		19.6	2.2
1671+36	WB	16	11		19.6	2.2
1674+36	EB	4	11	4.9		0.6
1674+36	WB	4	11	4.9		0.6
1681+36	EB	12	22		29.3	3.4
1681+36	WB	12	22		29.3	3.4
		CUID TOT			247.0	
		SUB-TOTAL		68.4	317.8	45.6
		SUB-TOTAL		149.1	207.8	44.0
ANTICI	PAIED FA	ILURES (10	%)	22	53	9

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l RT										F.A.S. SECTION			TOTAL SHEETS	SHEET NO.
	SCHEDULE OF QUANTITIES											CLINTON	9	7
												CONTRACT	NO. 76	5N32
SCALE: NTS	SHEET	2	OF	2	SHEETS	STA.	TO STA.			ILLINOIS	FED. AI	D PROJECT		

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