

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
960	39RS-9	MASSAC	11	1
ILLINOIS			CONTRACT NO. 78743	

FOR INDEX OF SHEETS, SEE SHEET NO. 3  
FOR SUMMARY OF QUANTITIES, SEE SHEET NO. 6-7

# PROPOSED HIGHWAY PLANS

FAS ROUTE 960 (US 45)  
SECTION 39RS-9  
PROJECT STP-5N8Z(028)  
3P RESURFACING  
MASSAC COUNTY

**TRAFFIC DATA**

US 45 2017 ADT= 1150 WITH 11.3% TRUCKS

DESIGN DESIGNATION : NA

COORDINATE SYSTEM : EPSG:102671 NAD 1983 StatePlane  
Illinois East FIPS 1201 Feet

POSTED SPEED : 55 MPH

C-99-084-19

STA. EQUATION 412+43.10 BK=440+44.10 AH

D-99-051-19

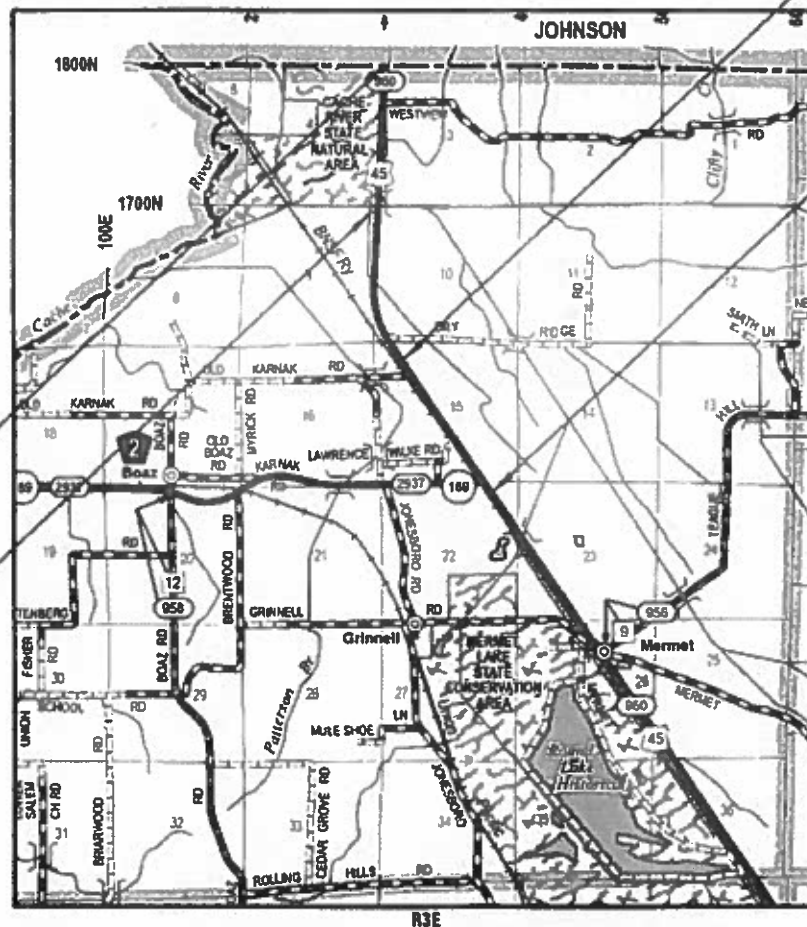


TOWNSHIP: T14S R3E

BEGIN PROPOSED IMPROVEMENT  
STA. 302+33.00 (US45)

BRIDGE OMISSION 356+19.00 TO 358+30.00

END PROPOSED IMPROVEMENT  
STA. 505+57.00 (US45)



GROSS LENGTH = 17,523.00 FT. = 3.319 MILE  
NET LENGTH = 17,312.00 FT. = 3.279 MILE

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

PROJECT ENGINEER SUSAN POE  
PROJECT DESIGNER PATRICK NAAS

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SUBMITTED May 30 2019  
Keith Robertson REGION FIVE ENGINEER

June 14 2019  
Scott A. Eck ENGINEER OF DESIGN AND ENVIRONMENT

June 14 2019  
Paul P. [Signature] DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

PRINTED BY THE AUTHORITY  
OF THE STATE OF ILLINOIS

CONTRACT NO. 78743

MOORE\_SCHERFNI FS  
FILE NAME: pw:\planning\dot\illinois.gov\p1010\documents\DOT\_Office\District\_operations\45...massac\_40\CAD\DWG\CAD\Sheet\09.dwg; Sheets.dgn

Prepared By: Charles Stein  
DISTRICT STUDIES & PLANS ENGINEER

Examined By: \_\_\_\_\_  
DISTRICT LAND ACQUISITION ENGINEER

Examined By: Carrie Nuh  
DISTRICT PROGRAM DEVELOPMENT ENGINEER

Examined By: Keel Nuh  
DISTRICT OPERATIONS ENGINEER

Examined By: [Signature]  
DISTRICT PROJECT IMPLEMENTATION ENGINEER

Examined By: Daryl J. Jellish  
DISTRICT CONSTRUCTION ENGINEER

Examined By: [Signature]  
DISTRICT MATERIALS ENGINEER

USER NAME = aab590	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 100.0000 / in	CHECKED -	REVISED -
PLOT DATE = 5/29/2019	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**SIGNATURE SHEET**

SCALE: SHEET OF SHEETS STA. TO STA.

F A S RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
960	39R5-9	MASSAC	11	2
CONTRACT NO. 78743				
ILLINOIS FED. AID PROJECT				

## LIST OF STANDARDS

000001-07 STANDARD SYMBOLS ABBREVIATIONS & PATTERNS  
 001001-02 AREAS OF REINFORCE BARS  
 001006 DECIMAL OF INCH & FOOT  
 442201-03 CLASS C & D PATCHES  
 701006-05 OFF RD OP-2L 2W-15 FT TO EOP  
 701011-04 OFF RD MOVING OP - 2L 2W- DAY ONLY  
 701301-04 LN CLOSURE 2L 2W - SHORT TIME OP  
 701306-04 LN CLOSURE 2L 2W - SLOW MOVE OP DAY ONLY 45 MPH OR MORE  
 701311-03 LN CLOSURE 2L 2W - MOVING OP DAY ONLY  
 701336-07 LN CLOSURE 2L 2W - WORK AREAS IN SERIES 45 MPH OR MORE  
 701901-08 TRAF CNTRL DEVICES  
 780001-05 TYPICAL PVMT MARKINGS  
 781001-04 TYPICAL APP RAISED REFLC PVMT MRKRS

## INDEX OF SHEETS

1 COVER SHEET  
 2 SIGNATURES SHEET  
 3 LIST OF STANDARDS / INDEX OF SHEETS  
 4 GENERAL NOTES / COMMITMENTS  
 5 MIXTURE REQUIREMENTS  
 6-7 SUMMARY OF QUANTITIES  
 8 TYPICAL SECTION  
 9-10 SCHEDULE OF QUANTITIES  
 11 DETAIL SHEET: UNEVEN LANE SIGN, ROUGH GROOVED SURFACE SIGN

### MTD CROSSING RESTRICTIONS TABLE

SN & CENTERLINE STATION ROUTE(US45)	EXISTING FILL HEIGHT OVER BOX CULVERT (FOOT)	THICKNESS OF EXISTING PAVEMENT OVER BOX CULVERT (FOOT)	MTD CROSSING RESTRICTIONS
SN 064-0044 (STA. 357 + 10)	NA	NA	UNLOADED MTD ALLOWED

MODEL: S:\PROJECTS\115\115001\115001.dwg  
 FILE: 115001.dwg  
 PROJECT: 115001  
 DATE: 5/30/2019  
 USER: naasdp  
 PLOT SCALE: 100.0000' / in.  
 PLOT DATE: 5/30/2019

USER NAME = naasdp	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -
PLOT DATE = 5/30/2019	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**LIST OF STANDARDS /INDEX OF SHEETS**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.S RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
960	39RS-9	MASSAC	11	3
CONTRACT NO. 78743				
ILLINOIS FED. AID PROJECT				



## MIXTURE REQUIREMENTS

Locations	Hot-Mix Asphalt Surface Course
Mixture Use(s):	Hot-Mix Asphalt Surface Course, Mix C, N70
AB/PG:	PG64-22
ABR % (Max):	See Special Provision
Design Air Voids:	4.0 %, 70 Gyration Design
Mixture Composition: (Gradation Mixture)	IL-9.5mm
Friction Aggregate:	C Surface
Mixture Weight:	112 lbs/Sq Yd/in
Quality Management Program:	QCP
Sublot Size:	TBD

Locations	Hot-Mix Asphalt Leveling Binder
Mixture Use(s):	Hot-Mix Asphalt Leveling Binder, N70 Fine Graded
AB/PG:	PG64-22
ABR % (Max):	See Special Provision
Design Air Voids:	4.0 %, 70 Gyration Design
Mixture Composition: (Gradation Mixture)	IL-9.5mm Fine Graded
Friction Aggregate:	None
Mixture Weight:	112 lbs/Sq Yd/in
Quality Management Program:	QCP
Sublot Size:	800 Tons

Locations	Pavement Patching
Mixture Use(s):	Hot-Mix Asphalt Binder Course, N70, IL-19.0
AB/PG:	PG64-22
ABR % (Max):	See Special Provision
Design Air Voids:	4.0 %, 70 Gyration Design
Mixture Composition: (Gradation Mixture)	IL-19.0mm
Friction Aggregate:	None
Mixture Weight:	112 lbs/Sq Yd/in
Quality Management Program:	QCQA
Sublot Size:	NA

MODEL - SCHEDULES  
 FILE NAME - p:\p19m00m\dat\illinois\p01\p19m00m\Documents\DOT\_Offices\District 9\Project\05 - 45 - massac co\CADD\dat\CAD\Sheets\09xxxx-Sheets.dgn

USER NAME = naasdp	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 5/30/2019	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**MIXTURE REQUIREMENTS**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.S RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
960	39RS-9	MASSAC	11	5
CONTRACT NO. 78743				
ILLINOIS FED. AID PROJECT				

# SUMMARY OF QUANTITIES

COUNTY:	MASSAC
ROUTE:	US 45
FUNDING:	80% FED / 20% STATE
LOCATION:	RURAL

CODE NUMBER	ITEM DESCRIPTION	UNIT	TOTAL QUANTITY	ROADWAY
				0005
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	32,460	32,460
40600637	LEVELING BINDER (MACHINE METHOD), IL-9.5FG, N70	TON	2,045	2,045
40600990	TEMPORARY RAMP	SQ YD	189	189
40603315	HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N70	TON	4,060	4,060
44000158	HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/4"	SQ YD	48,089	48,089
44200164	PAVEMENT PATCHING, TYPE I, 14 INCH	SQ YD	2	2
44200168	PAVEMENT PATCHING, TYPE II, 14 INCH	SQ YD	100	100
44200172	PAVEMENT PATCHING, TYPE III, 14 INCH	SQ YD	45	45
44200174	PAVEMENT PATCHING, TYPE IV, 14 INCH	SQ YD	40	40
48101200	AGGREGATE SHOULDERS, TYPE B	TON	110	110
67100100	MOBILIZATION	L SUM	1	1
70100460	TRAFFIC CONTROL AND PROTECTION, STANDARD 701306	L SUM	1	1

MODEL: SCHEDULES  
 FILE: \\nas01c.pw.us.ibm.com\data\illinois.gov\PI\DOT\Documents\DOT\_Offices\District 9\Projects\us\_45 - massac\_co\CADD\ba\CAD\Sheets\09xxxx-Sheets.dgn

USER NAME = naasdp	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -
PLOT DATE = 5/30/2019	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

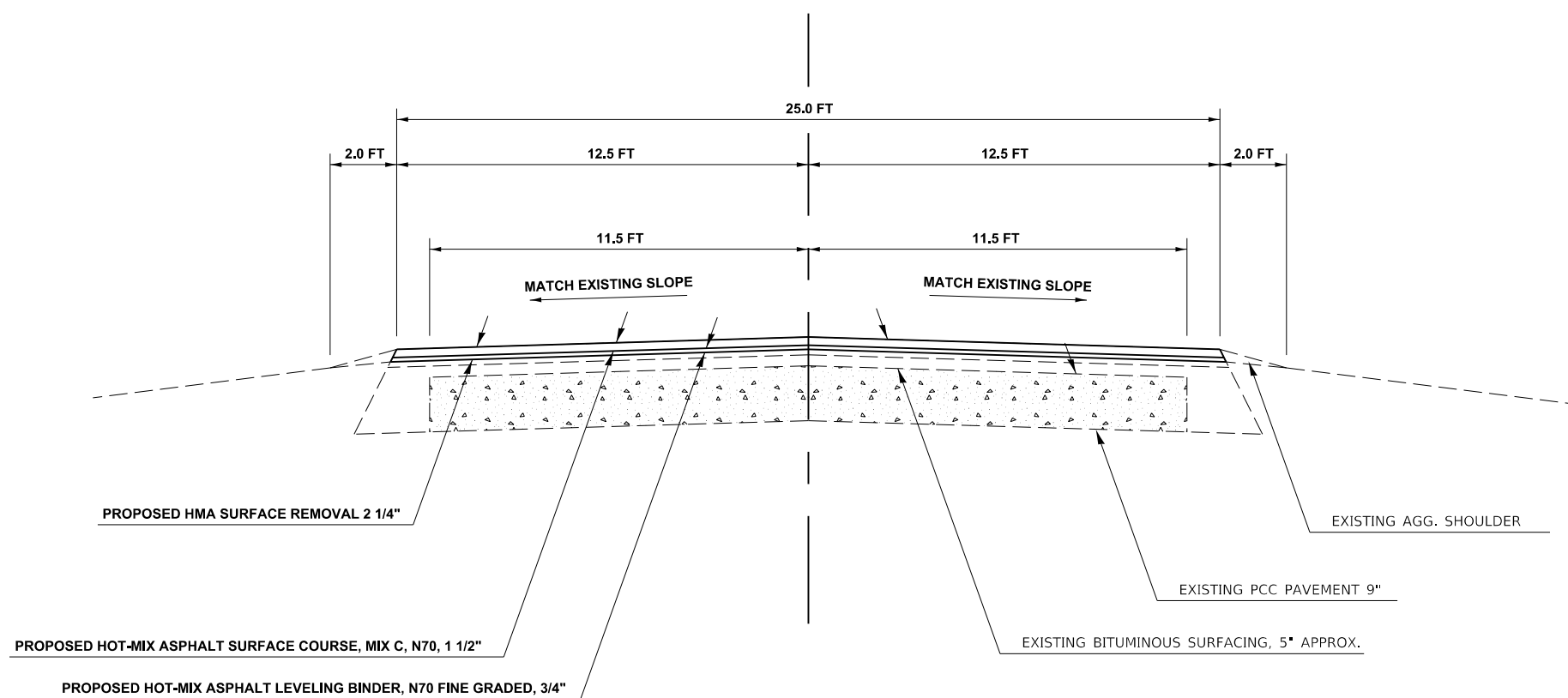
**SUMMARY OF QUANTITIES**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
960	39RS-9	MASSAC	11	6
CONTRACT NO. 78743				
		ILLINOIS	FED. AID PROJECT	



CL  
US 45



**TYPICAL SECTION**  
**STA. 302+33.00 TO 505+57.00**

NOTE: LONGITUDINAL JOINT SEALANT SHALL BE APPLIED UNDER THE SURFACE COURSE AT THE CENTER LINE.

MODEL: TYPICALS  
FILE NAME: P:\pub\mroom\dat\illinois\pwr\DOT\Documents\DOT\_Offices\District 9\Project\us\_45 - massac.co\CADD\dat\CAD\sheet\09xxxx-Sheets.dgn

USER NAME = naasdp	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 5.0000' / in.	CHECKED -	REVISED -
PLOT DATE = 5/30/2019	DATE -	REVISED -

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**TYPICALS: US 45**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.S RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
960	39RS-9	MASSAC	11	8
CONTRACT NO. 78743				
ILLINOIS FED. AID PROJECT				



## RESURFACING SCHEDULE

LOCATION STATION	LENGTH	PVMNT. WIDTH	HOT-MIX ASPHALT SURFACE REMOVAL 2 1/4"	LEVELING BINDER (MACHINE METHOD) IL-9.5FG N70	HOT-MIX ASPHALT SURFACE COURSE MIX "C", N70	BITUMINOUS MATERIALS (TACK COAT)	TEMPORARY RAMP	LONGITUDINAL JOINT SEALER	COMMENTS
	(FEET)	(FEET)	(SQ YD)	(TON)	(TON)	(POUND)	(SQ YD)	(FOOT)	
US 45									
302+33.00							20.8		BEGIN PROJECT AT THE JOHNSON / MASSAC COUNTY LINE.
302 + 33.00 TO 356 + 19.00	5386.00	25.0	14961	636	1263	10099		5386	
356 + 19.00 TO 358 + 30.00									STRUCTURE OMISSION (064-0044)
358 + 30.00 TO 412 + 43.10	5413.10	25.0	15036	639	1269	10150		5413	
STA. EQ. 412+43.10 BK = 440+44.10 AH									STA. EQ. 412+43.10 BK = 440+44.10 AH
440 + 44.10 TO 505 + 57.00	6512.90	25.0	18091	769	1527	12212		6513	
503 + 80.00 TO 505 + 57.00							147.5		
505+57.00							20.8		END PROJECT APPROX. 100' SOUTH OF IL 169
TOTALS			48089	2045	4060	32460	189	17312	

- BITUMINOUS MATERIALS TACK COAT AT (0.05LB/SQ FT) ON MILLED SURFACE AND (0.025LB/SQ FT) BETWEEN HMA LIFTS
- TEMPORARY RAMP QUANTITY SHOWN IS FOR 2 RAMPS AT THE SPECIFIED LOCATION. 1 RAMP AFTER MILLING OPERATIONS AND 1 RAMP AFTER HMA BINDER PLACEMENT.
- AN ADDITIONAL BINDER AND SURFACE QUANITY HAS BEEN ADDED TO ACCOUNT FOR BITUMINOUS WEDGE THAT MAY BE REQUIRED AFTER MILLING OPERATIONS.

MODEL: SCHEDULES  
 FILE: \\naasdp\pub\blm\room\dat\illinois\pwr\PIW\DOT\Documents\DOT\_Offices\District 9\Project\us\_45 - massac\_co\CADD\dat\CAD\Sheets\09xxxx-Sheets.dgn

USER NAME = naasdp	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 100,0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 5/30/2019	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>SCHEDULES</b>	
SCALE:	SHEET OF SHEETS STA. TO STA.

F.A.S RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
960	39RS-9	MASSAC	11	9
CONTRACT NO. 78743				
ILLINOIS FED. AID PROJECT				

## PAVEMENT MARKING SCHEDULE

LOCATION STATION	LENGTH  (FEET)	THERMOPLASTIC PAVEMENT MARKING				COMMENTS
		LINE 4 INCH FOOT				
		LEFT EDGE OF PVMNT SOLID (YELLOW)	CENTER LNE  SOLID (WHITE)    SKIP DASH (WHITE)		RIGHT EDGE OF PVMNT SOLID (YELLOW)	
US 45						
302 + 33.00 TO 305 + 81.00	348.00	348	348	87	348	BEGIN PROJECT AT THE JOHNSON / MASSAC COUNTY LINE.
305 + 81.00 TO 356 + 19.00	5038.00	5038		1260	5038	
356 + 19.00 TO 358 + 30.00				0		STRUCTURE OMISSION (064-0044)
358 + 30.00 TO 412 + 43.10	5413.10	5413		1353	5413	
STA. EQ. 412+43.10 BK = 440+44.10 AH						STA. EQ. 412+43.10 BK = 440+44.10 AH
440 + 44.10 TO 505 + 57.00	6512.90	6513		1628	6513	END PROJECT APPROX. 100' SOUTH OF IL 169
SUB TOTALS		17312	348	4328	17312	
TOTALS				39300		

MODEL: SCHEDULES  
 FILE: \\nasac-co-cadd\data\CAD\Projects\DOT - Office\District 9\Projects\us\_45 - massac\_co\CADD\data\CAD\Projects\09xxxx-Sheets.dgn

USER NAME = naasdp	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 100,0000' / in.	CHECKED -	REVISED -
PLOT DATE = 5/30/2019	DATE -	REVISED -

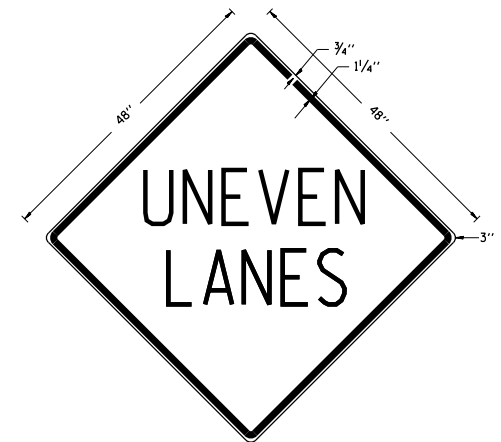
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>SCHEDULES</b>			
SCALE:	SHEET	OF SHEETS	STA. TO STA.

F.A.S RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
960	39RS-9	MASSAC	11	10
CONTRACT NO. 78743				
ILLINOIS FED. AID PROJECT				

## 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.

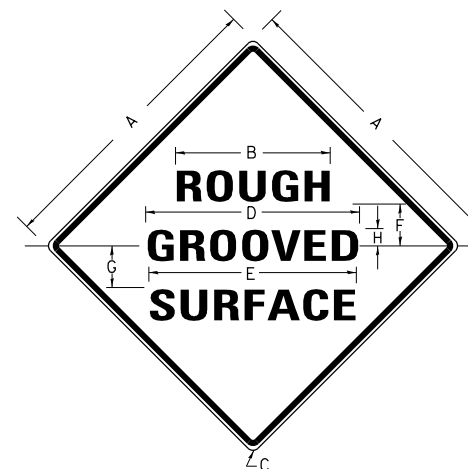
THE COST OF FURNISHING, ERECTING, MAINTAINING, AND REMOVING THE REQUIRED SIGNS SHALL BE INCLUDED IN THE CONTRACT.

### 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

MODEL: DETAILS  
FILE NAME: p:\pub\harcourt\illinois\p00\Documents\DOT\_Offices\Illinet\9\Projectus\_45 - massac.co\CADD\Draw\CAD\Sheets\09xxx-Sheets.dgn

USER NAME = naasdp	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -
PLOT DATE = 5/30/2019	DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

DETAILS: UNEVEN LANE SIGN, ROUGH GROOVED SURFACE SIGN

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
960	39RS-9	MASSAC	11	11
CONTRACT NO. 78743				
ILLINOIS FED. AID PROJECT				