

FOR INDEX OF SHEETS, SEE SHEET NO. 2  
FOR STATE STANDARDS, SEE SHEET NO. 2

03-09-2018 LETTING ITEM 071

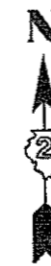
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS

**PROPOSED  
HIGHWAY PLANS**

FAI ROUTE 39 (I-39)  
SECTION D2 RS 2018-5  
WINNEBAGO COUNTY  
C-92-033-18

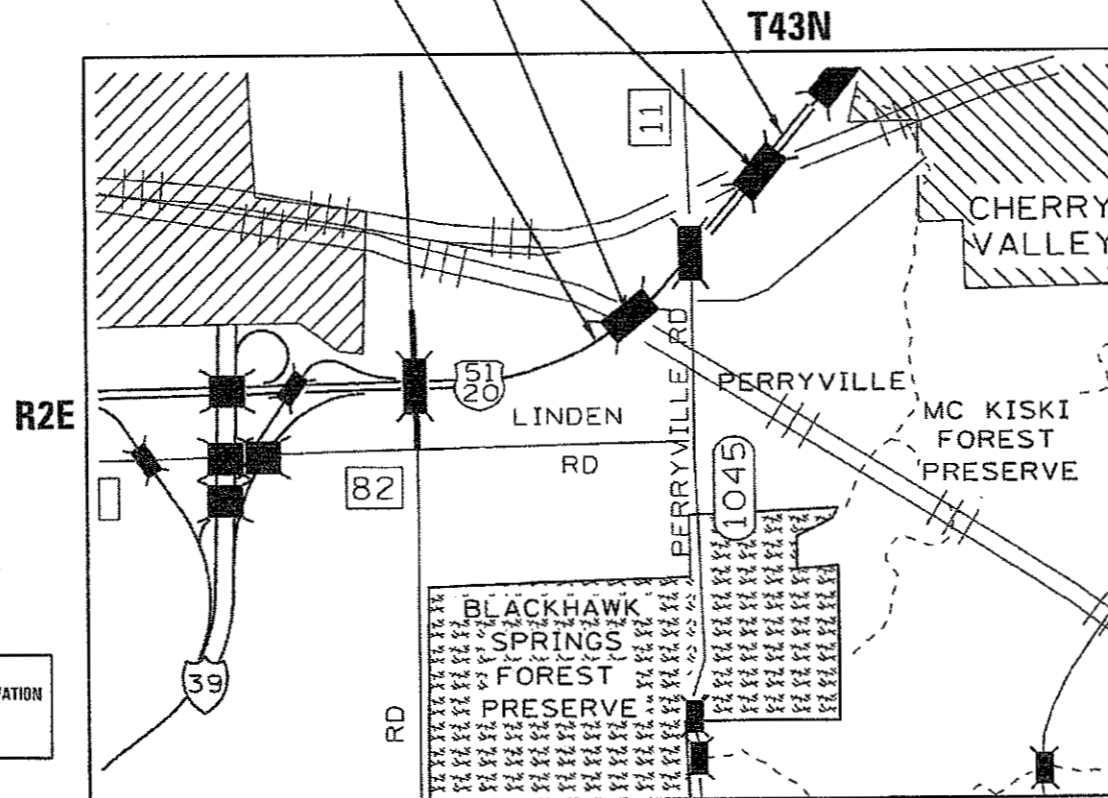
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
39	D2 RS 2018-5	WINNEBAGO	14	1
ILLINOIS			CONTRACT NO. 64M79	

D-92-024-18



PROJECT BEGINS  
STA 2645 + 00

OMISSION PROJECT ENDS  
STA 2689 + 00



CHERRY VALLEY TOWNSHIP,  
SECTIONS 2, 3 & 10

J.U.L.E.  
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION  
1-800-992-0123  
OR 811

PROJECT ENGINEER: SCOTT KULLERSTRAND  
SQUAD LEADER: LANCE NICKLAUS (815) 284-5407  
CONTRACT NO. 64M79

GROSS LENGTH = 4400 FT. = 0.83 MILE  
OMISSION LENGTH = 443 FT. = 0.08 MILE  
NET LENGTH = 3957 FT. = 0.75 MILE

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS

SUBMITTED Dec 07, 2017  
Kevin Marchek  
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

Feb 2, 2018  
[Signature]  
ENGINEER OF DESIGN AND ENVIRONMENT

Feb 2, 2018  
[Signature]  
DIRECTOR OF PROGRAM DEVELOPMENT

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

## INDEX OF SHEETS

1	Cover Sheet
2	Index of Sheets / State Standards
3	Summary of Quantities
4	Typical Sections
5 - 6	General Notes
7	Schedule of Quantities
8 - 11	Plan Sheets
12 - 14	Typical Pavement Markings (Dist Std 41.1)

## STATE STANDARDS

701101 - 05	Off-Road Operations, Multilane, 15' to 24" from Pavement Edge
701400 - 09	Approach to Lane Closure, Freeway / Expressway
701401 - 11	Lane Closure, Freeway / Expressway
701426 - 09	Lane Closure, Multilane, Intermittent or Moving Oper., for Speeds $\geq$ 45 mph
701428 - 01	Traffic Control, Setup and Removal, Freeway / Expressway
701901 - 07	Traffic Control Devices
720011 - 01	Metal Posts for Signs, Markers & Delineators
728001 - 01	Telescoping Steel Sign Support
729001 - 01	Applications of Types A & B Metal Posts (For Signs & Markers)
780001 - 05	Typical Pavement Markings

## SUMMARY OF QUANTITIES

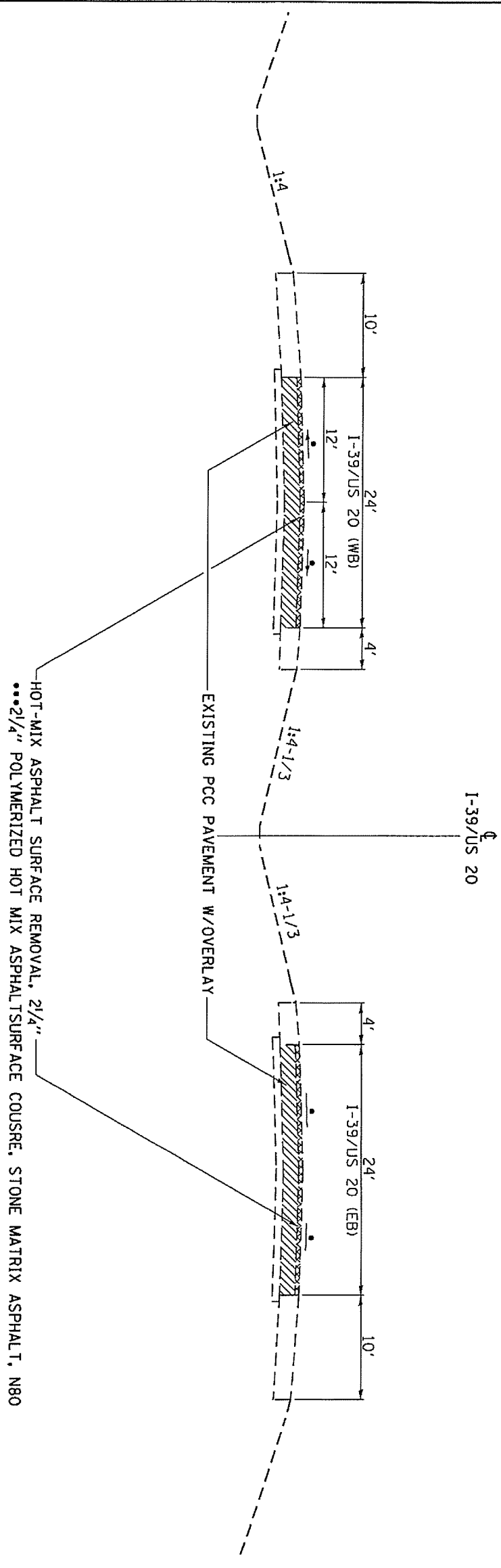
FAI 39 (I-39)  
D2 RS 2018-5  
Winnebago County  
Contract No. 64M79  
Sheet 3 of 14

CODE NUMBER	ITEM	UNIT	TOTAL QUANTITY	0005 100% STATE <i>URBAN</i>
40600295	POLYMERIZED BITUMINOUS MATERIALS (TACK COAT)	POUND	9,102.5	9,102.5
<i>40603153</i>	POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, STONE MATRIX ASPHALT, N80	TON	2,708	2,708
44000158	HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/4 "	SQ YD	20,227	20,227
67100100	MOBILIZATION	L SUM	1	1
70100800	TRAFFIC CONTROL AND PROTECTION, STANDARD 701401	L SUM	1	1
70200100	NIGHTTIME WORK ZONE LIGHTING	L SUM	1	1
70300100	SHORT TERM PAVEMENT MARKING	FOOT	1,431	1,431
<i>70300150</i>	<i>SHORT TERM PAVEMENT MARKING REMOVAL</i>	SQ FT	477	477
* 78001110	PAINT PAVEMENT MARKING - LINE 4"	FOOT	31,640	31,640
* 78001130	PAINT PAVEMENT MARKING - LINE 6"	FOOT	3,955	3,955
* 78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	100	100
78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	100	100
X7015005	CHANGEABLE MESSAGE SIGN	CAL DAY	30	30

*B* \* SPECIALTY ITEM

# TYPICAL SECTION

STA 2645+00 - 2689+00  
 BRIDGE OMISSION EB 2647+67 - 2649+33 & 2683+72 - 2686+49  
 BRIDGE OMISSION WB 2647+39 - 2649+05 & 2682+59 - 2685+36



- EXISTING
- PROPOSED
- MATCH EXISTING CROSS SLOPE (MIN OF 1/8"/FT)
- 119 LBS/SO YD/IN

FILE NAME = 0:\PL\Nicklaus\FY 18 Jobs\Downrd A\US 20 RR to RR\64M79 US 20 RR		to RR\0209812-shr-typical.dgn	
USER NAME = nicklausle		STATE OF ILLINOIS	
DEPARTMENT OF TRANSPORTATION		TYPICAL SECTION	
DEPARTMENT OF TRANSPORTATION	SECTION	COUNTY	TOTAL SHEETS
39	D2 RS 2018-5	WINNEBAGO	14
CONTRACT NO. 64M79			4
FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT			

PLOT DATE = Oct-17-2017 01:50:34 PM

**GENERAL NOTES**

All Borrow/Waste/Use sites must be approved by the Department prior to removing any material from the project or initiating any earthmoving activities, including temporary stockpiling outside the limits of construction.

The following Mixture Requirements are applicable for this project:

Location(s):	Resurfacing		
Mixture Use(s):	Surface		
PG:	SBS PG 76-22		
Design Air Voids:	4.0 @ N80		
Mixture Composition (Mixture Gradation):	SMA IL 12.5		
Friction Aggregate:	SMA N80 (E)		
Mixture Weight:	119 lbs/sy/in		
Quality Management Program:	QC/QA		
Sublot Size:	N/A		
Number of Roller Passes <sup>1)</sup> :	N/A		

1) When a number of roller passes is specified, the Contractor may opt to use intelligent compaction in lieu of density testing under the Quality Control for Performance (QCP) program.

The Contractor will be required to furnish 5 1/2" high brass stencils as approved by the Engineer and install stationing at 250' intervals. Stationing shall be placed on both lanes of 2-lane highways and on the outside lanes in both directions on 4-lane highways. The stations shall be placed 6" inside the pavement marking edge so they can be read from the shoulder. This work will be included in the cost of the final pavement surface.

Pavement Marking shall be done according to Standard 780001, except as follows:

1. All words, such as ONLY, shall be 8 feet high.
2. All non-freeway arrows shall be the large size.
3. The distance between yellow no-passing lines shall be 8 inches, not 7 inches, as shown in the detail of Typical Lane and Edge Lines.
4. Centerline Skip Dash Pavement Marking on multi-lane divided, multi-lane undivided, and one-way roadway shall be according to District Standard 41.1.

The Contractor shall be responsible for locating and protecting utility property during construction operations as outlined in Article 107.39 of the Standard Specifications. A minimum of 48 hours advance notice is required for non-emergency work. The JULIE number is 800-892-0123. The following listed utilities located within the project limits or immediately adjacent to the project construction limits are members of JULIE:

**(Type name & phone number of JULIE companies from attached utility form.)**

\_\_\_\_\_

IDOT is not a member of JULIE. If you are near any overhead lighting, intersection lighting or traffic signals, contact the IDOT Traffic Office at 815/284-5469 at least 48 hours prior to work.

FAI 39 (I-39)  
Section D2 RS 2018-5  
Winnebago County  
Contract #64M79

The Contractor shall be required to obtain a permit from the Illinois State Toll Highway Authority (ISTHA) to request a Locate of Tollway Facilities for the placement of Traffic Control Signs and to place Traffic Control on Tollway property. The Contractor shall be responsible for all permits and notifications. This work shall be included in the contract.

The Contractor shall place 2 (two) changeable message signs on I-39/US 20 in advance of construction. The message signs shall be placed two weeks prior to the start of work or stage change. The message boards shall be placed northbound on I-39 east of Mulford Road and southbound just south of the Harrison Avenue interchange. This work will be paid for at the contract unit price per Calendar Day for, CHANGEABLE MESSAGE SIGN.

The Contractor shall be advised that any pavement that is milled off shall have the surface course placed the same night, before the lane may be open to traffic. No drop-offs shall be left while the Contractor is not present and working on the lane.

No lane closures are allowed between the hours of 8:00 P.M. and 6:00 A.M. No lane closures are allowed from 6:00 A.M. Friday to 8:00 P.M. Sunday.

IDOT reserves the right to utilize a Smart Monitoring Traffic System for this project to be provided by others. The contractor will not be responsible for the deployment of this system or the cost of the Smart Monitoring Traffic System.

The SMA Surface Course mixture on this job shall be a mix "E".

Raised Reflective Pavement Markers shall be replaced to the current single marker configuration and not the double marker configuration as shown on the applicable standards.

## Schedule of Quantities

**40600295 POLYMERIZED BITUMINOUS MATERIALS (TACK COAT)**

<u>POUND</u>	<u>LOCATION</u>	
<u>9,102.5</u>	Sta 2645 + 0 - 2689 + 0	Bridges omitted from quantity
<b>9,102.5</b>	<b>TOTAL</b>	

**40603570 POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, STONE MATRIX ASPHALT, N80**

Note: SURFACE COURSE SHALL BE MIX "E"

<u>TON</u>	<u>LOCATION</u>	
<u>2,708</u>	Sta 2645 + 00 - 2689 + 00	Bridges omitted from quantity
<b>2,708</b>	<b>TOTAL</b>	

**44000158 HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/4"**

<u>SQ YD</u>	<u>LOCATION</u>	
<u>20,227</u>	Sta 2645 + 0 - 2689 + 0	Bridges omitted from quantity
<b>20,227</b>	<b>TOTAL</b>	

**70300100 SHORT TERM PAVEMENT MARKING**

<u>FOOT</u>	<u>LOCATION</u>	
<u>1,431</u>	Sta 2645 + 0 - 2689 + 00	Bridges omitted from quantity
<b>1,431</b>	<b>TOTAL</b>	

**70301000 WORK ZONE PAVEMENT MARKING REMOVAL**

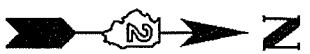
<u>SQ FT</u>	<u>LOCATION</u>	
<u>477</u>	Sta 2645 + 0 - 2689 + 00	Bridges omitted from quantity
<b>477</b>	<b>TOTAL</b>	

**78001110 PAINT PAVEMENT MARKING - LINE 4"** 2 Applications

<u>FOOT</u>	<u>LOCATION</u>	
<u>31,640</u>	Sta 2645 + 0 - 2689 + 00	Bridges omitted from quantity
<b>31,640</b>	<b>TOTAL</b>	

**78001130 PAINT PAVEMENT MARKING - LINE 6"** 2 Applications

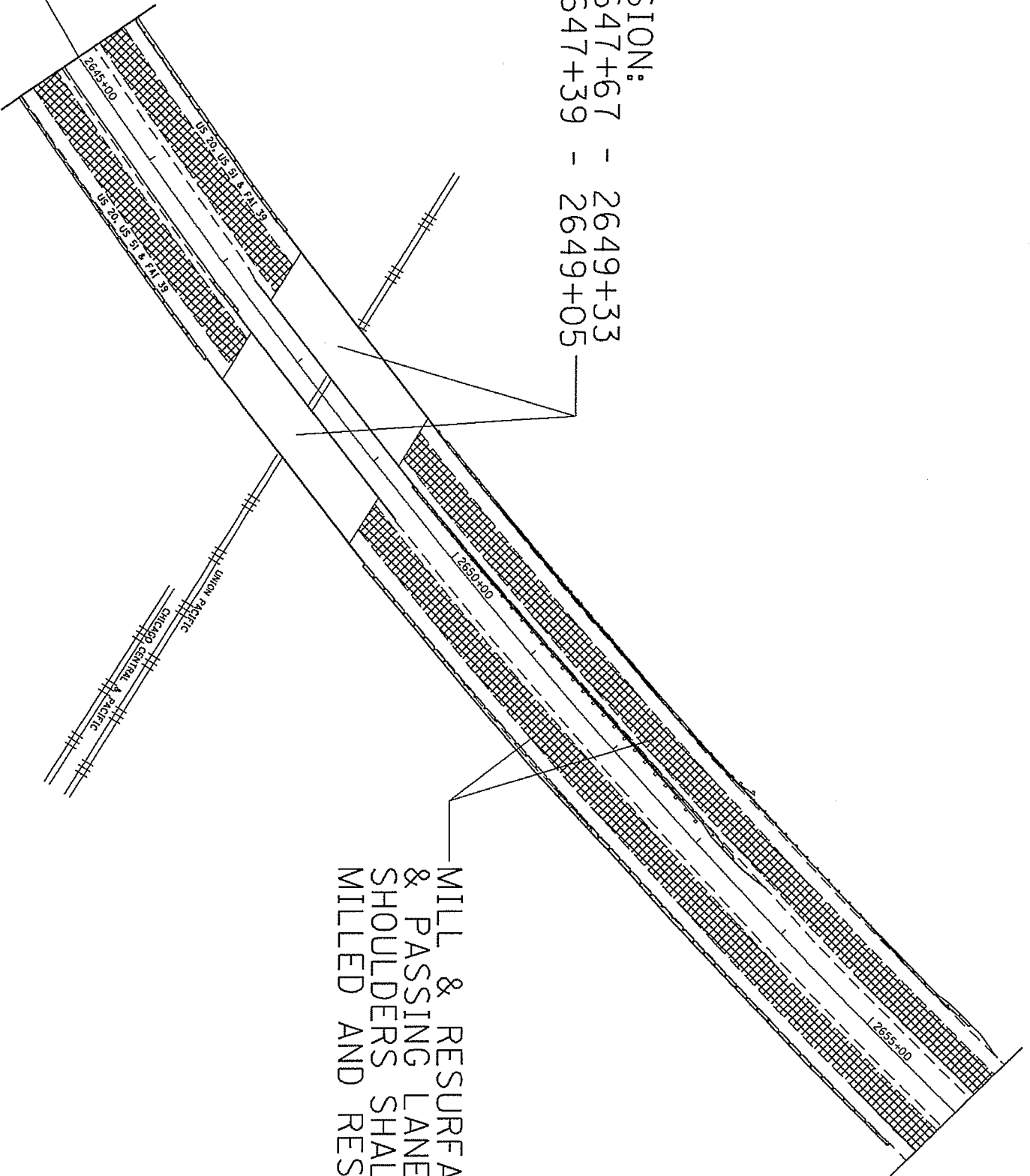
<u>FOOT</u>	<u>LOCATION</u>	
<u>3,955</u>	Sta 2645 + 0 - 2689 + 00	Bridges omitted from quantity
<b>3,955</b>	<b>TOTAL</b>	



OMISSION:  
 EB 2647+67 - 2649+33  
 WB 2647+39 - 2649+05

MILL & RESURFACE DRIVING  
 & PASSING LANE ONLY.  
 SHOULDERS SHALL NOT BE  
 MILLED AND RESURFACED.

PROJECT BEGINS  
 STA 2645+00



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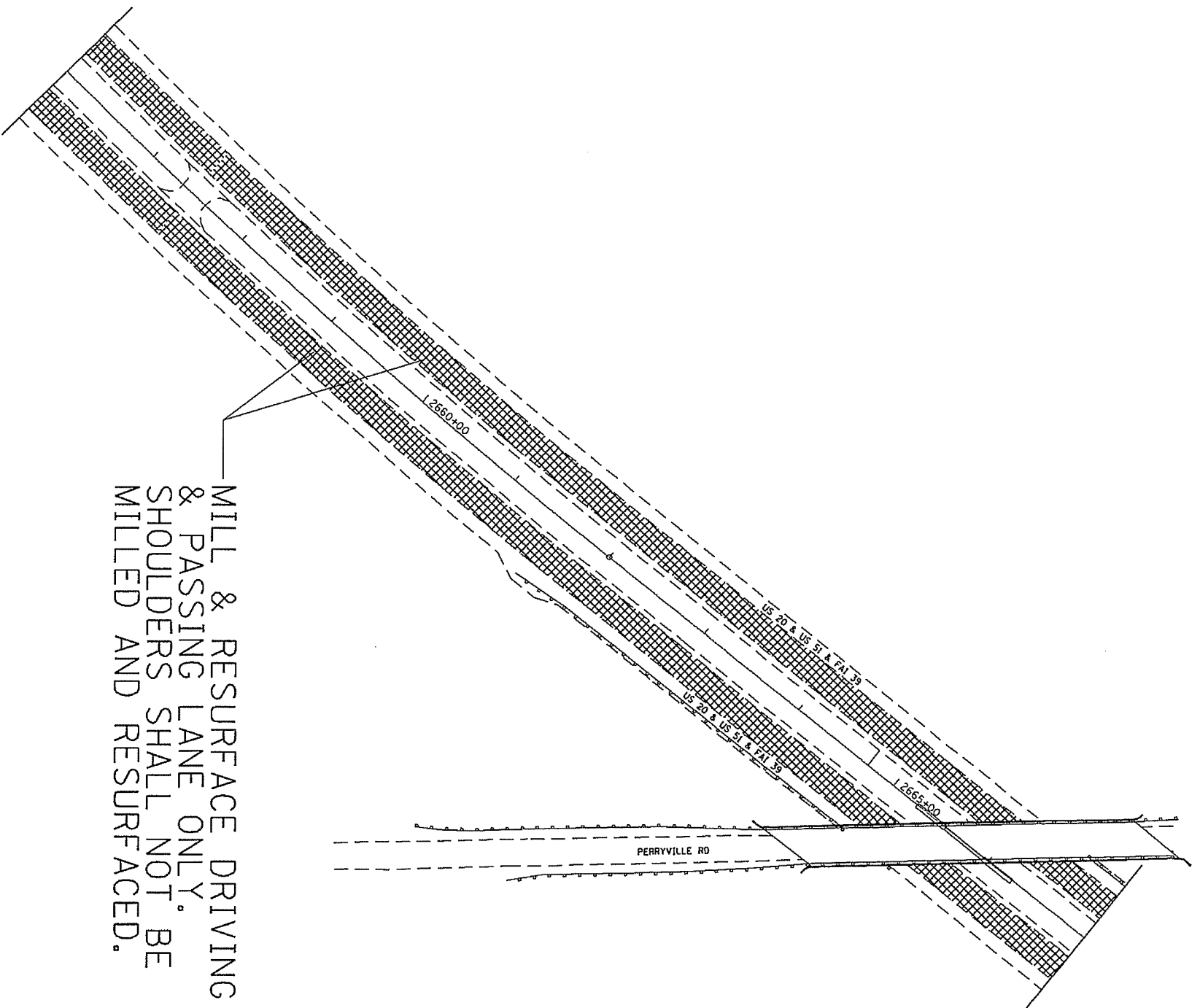
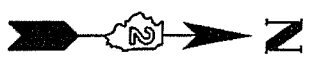
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**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**PLAN SHEET**

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
39	D2 RS 2018-5	WINNEBAGO	14	8

FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT CONTRACT NO. 64M79





MILL & RESURFACE DRIVING  
& PASSING LANE ONLY.  
SHOULDERS SHALL NOT BE  
MILLED AND RESURFACED.

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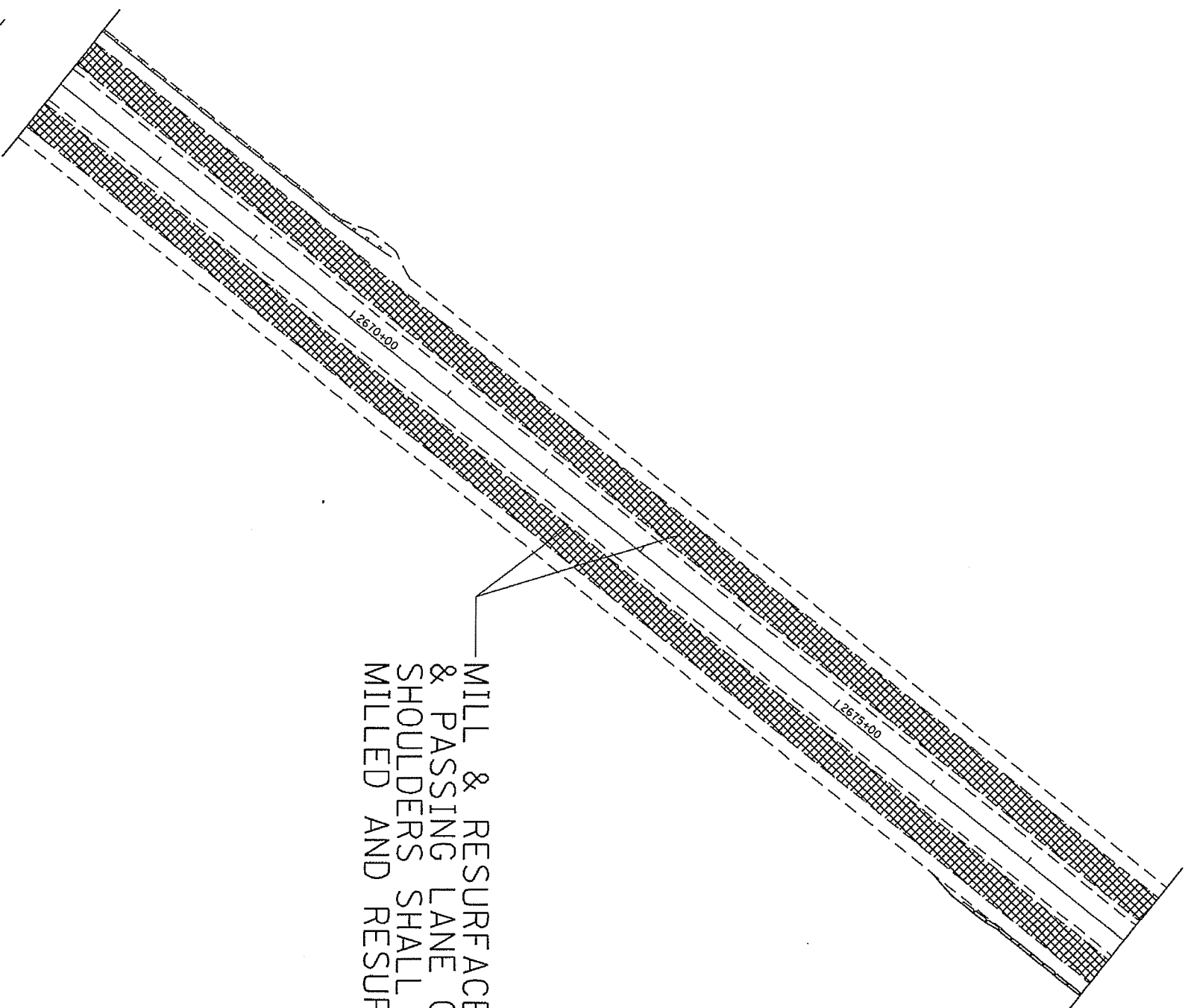
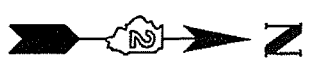
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**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**PLAN SHEET**

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
39	D2 RS 2018-5	WINNEBAGO	14	9

FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT CONTRACT NO. 64M79



MILL & RESURFACE DRIVING  
& PASSING LANE ONLY.  
SHOULDERS SHALL NOT BE  
MILLED AND RESURFACED.

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to RRV\0208912-sht-plan.dgn  
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

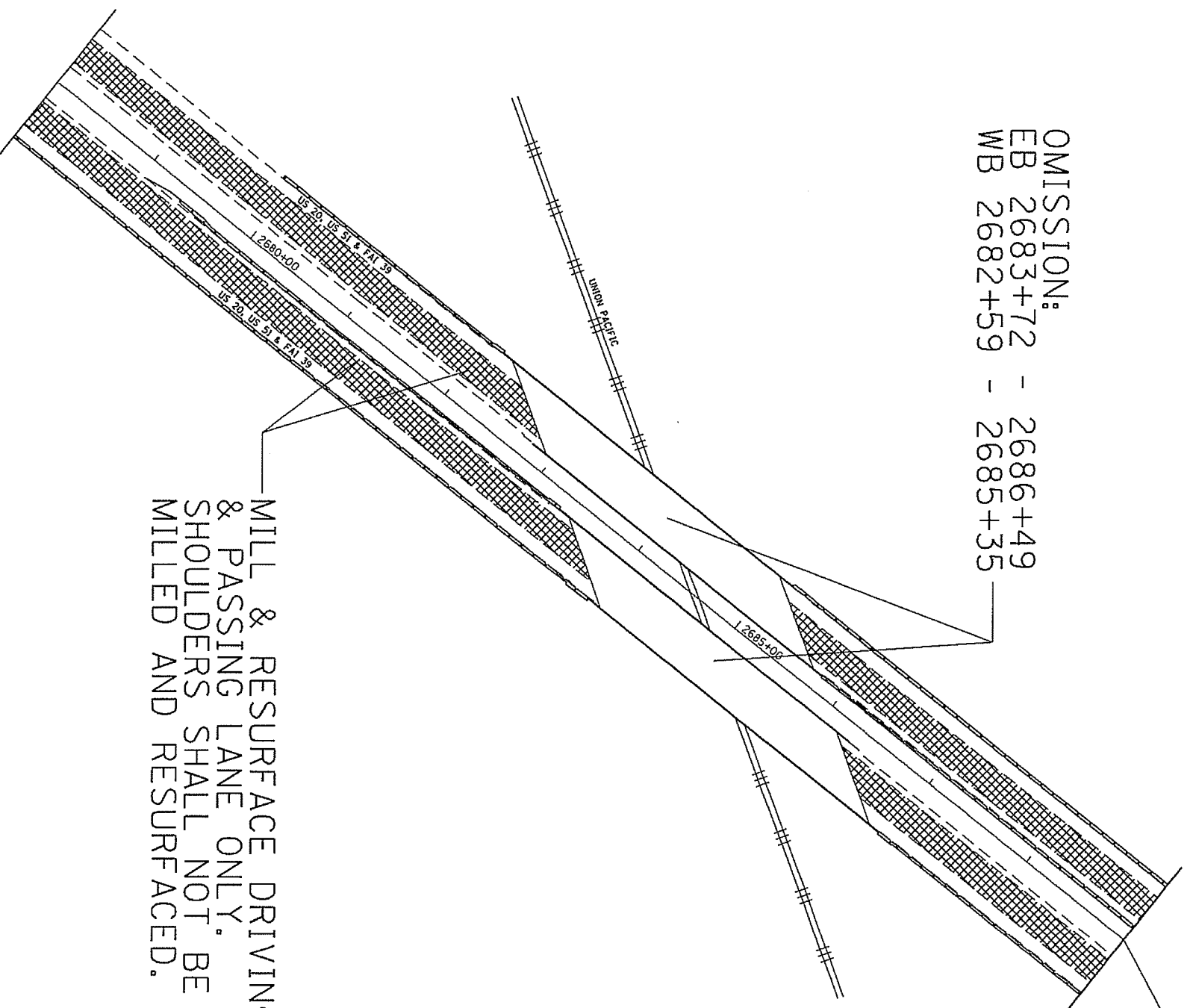
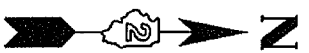
**PLAN SHEET**

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
39	D2 RS 2018-5	WINNEBAGO	14	10

FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT CONTRACT NO. 64M79

OMISSION:  
 EB 2683+72 - 2686+49  
 WB 2682+59 - 2685+35

PROJECT ENDS  
 STA 2689+00



MILL & RESURFACE DRIVING  
 & PASSING LANE ONLY.  
 SHOULDERS SHALL NOT BE  
 MILLED AND RESURFACED.

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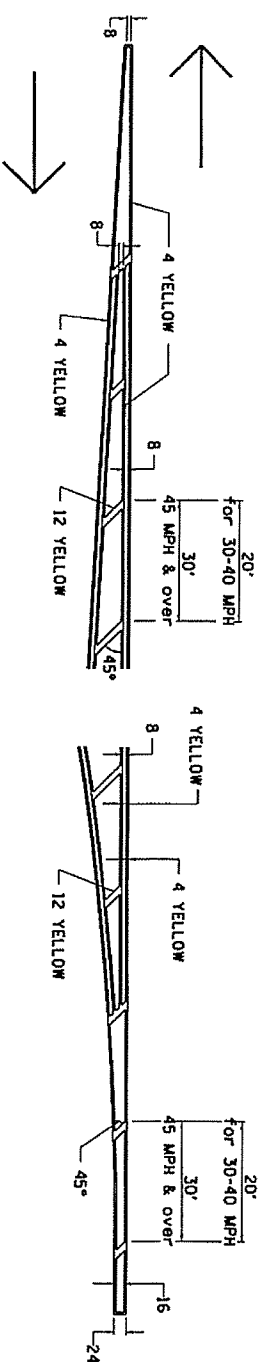
STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

PLAN SHEET

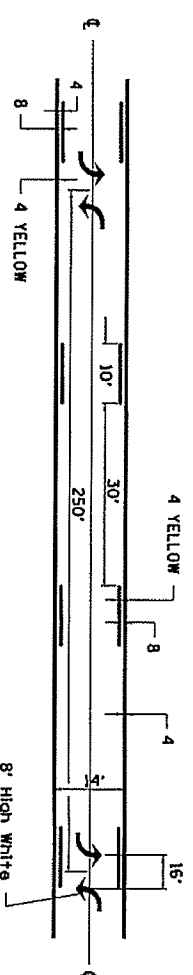
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39	D2 RS 2018-5	WINNEBAGO	14	11
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT	CONTRACT NO. 64M79	

# TYPICAL PAVEMENT MARKINGS

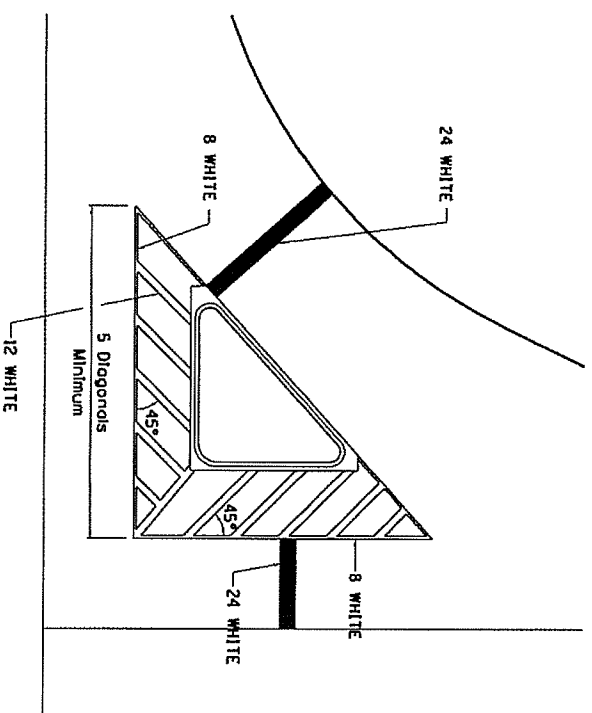
## TYPICAL PAVEMENT MARKING FOR FLUSH MEDIAN AT LEFT TURN LANE



## MEDIAN PAVEMENT MARKING

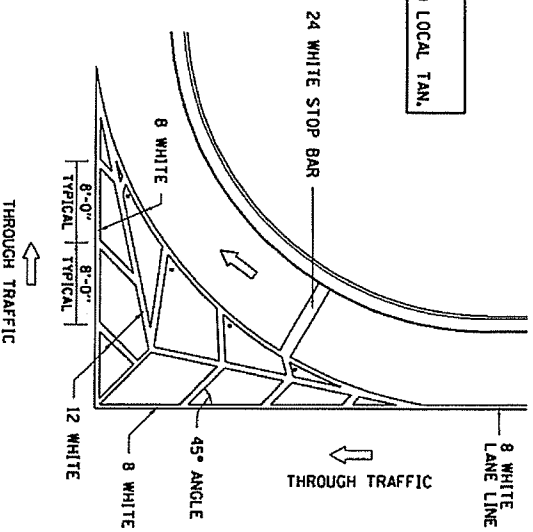


## TYPICAL ISLAND OFFSET SHOULDER WIDTH



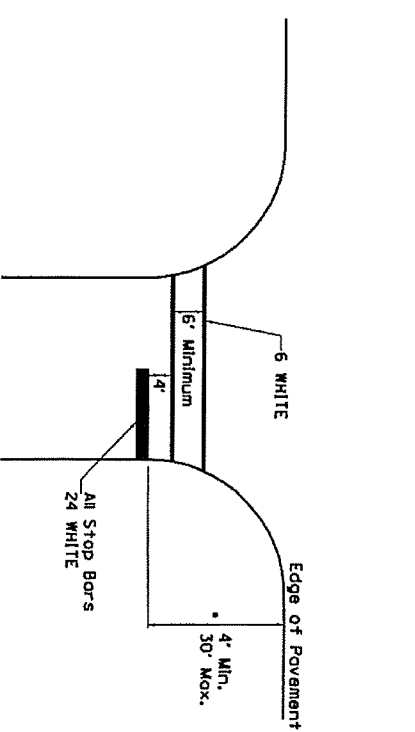
NOTE:  
\* 45° TO LOCAL TAN.

## TYPICAL MARKING FOR PAINTED ISLANDS



## STANDARD CROSSWALK MARKING

See Schedules for Locations



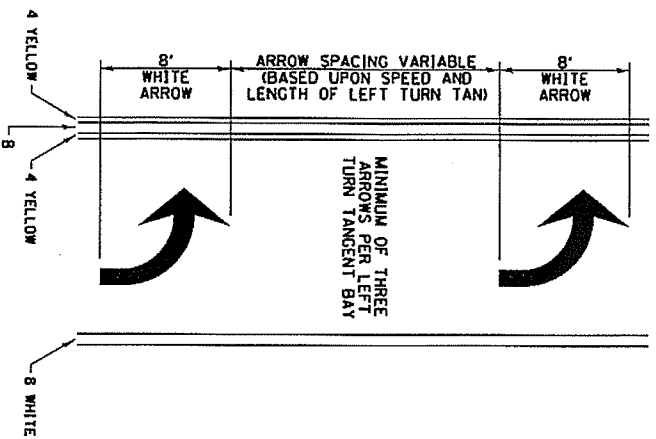
\* Distance to the nearest edge of the intersecting roadway in the absence of a marked crosswalk.

\*\* ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

FILE NAME: 1	USER NAME: 1	DESIGNED: 6-21-14	REVISION: 6-21-14
PROJECT: 100-100-100-100	PROJECT: 100-100-100-100	CHECKED: 3-05-12	REVISION: 3-05-12
DATE: 10-01-14	DATE: 10-01-14	DATE: 10-01-14	DATE: 10-01-14

# TYPICAL PAVEMENT MARKINGS

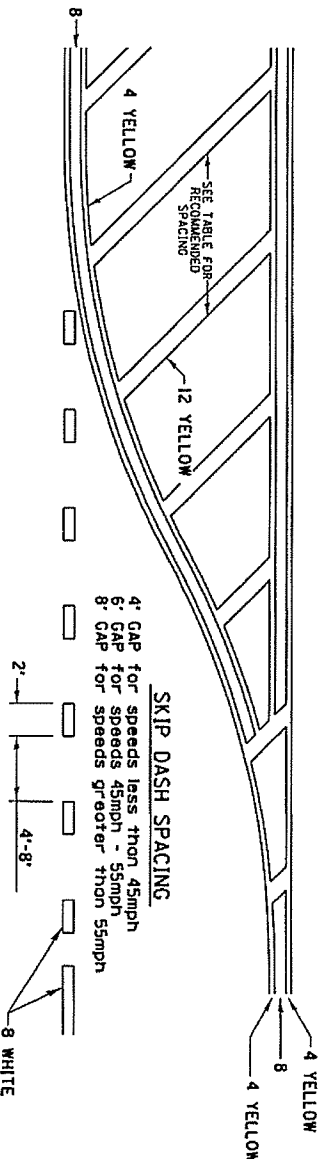
## ARROW LAYOUT



ALL DIMENSIONS ARE IN INCHES  
UNLESS OTHERWISE NOTED.

- ▲ ONE-WAY AMBER MARKER
- △ ONE-WAY CRYSTAL MARKER
- ◆ TWO-WAY AMBER MARKER

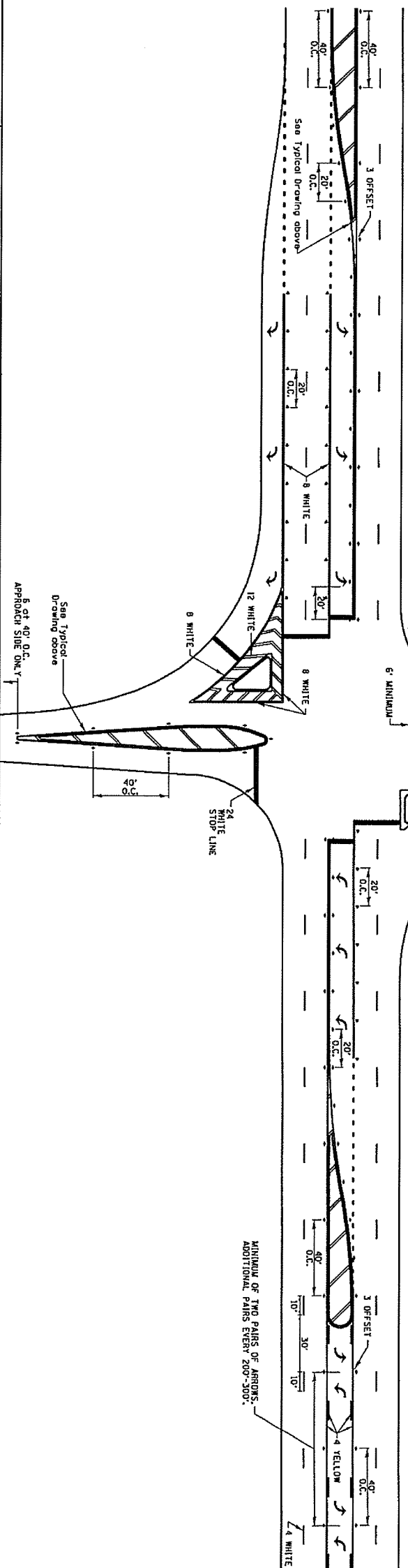
## TYPICAL PAVEMENT MARKING FOR FLUSH MEDIAN



### RECOMMENDED SPACING BETWEEN DIAGONALS (IN FEET)

Speed Limit Range	Continuous Median Aired	Intersection Channelization	Objects (Islands)
less than 30MPH	50'	15'	10'
30-40MPH	75'	20'	15'
45MPH & over	75'	30'	20'

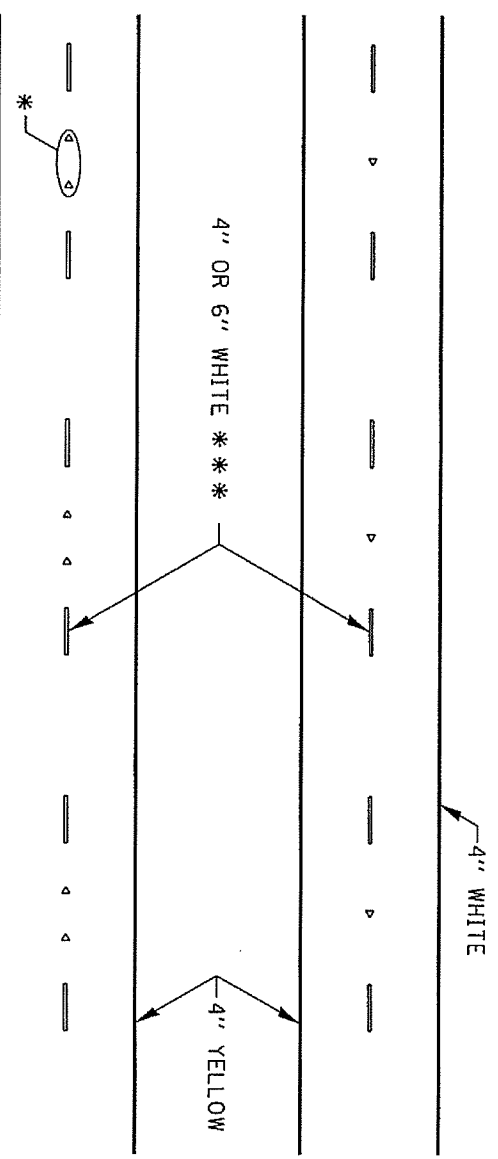
NOTE: If the spacing recommended in the Table does not permit at least five diagonal lines to be used being marked, the spacing from the next lowest speed range should be used. The recommended spacing is measured parallel to the pavement center line.



FILE NAME: 1	USER NAME: 1	DESIGNED: -	REVISED: 6-21-14	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SCALE: 1" = 20'	SHEET NO. OF SHEETS: 1 STA. TO STA.	F.A.M. SECTION	COUNTY	TOTAL SHEETS
PROJECT: 18 JansDavid RAMP 28	PROJECT: 18 JansDavid RAMP 28	CHECKED: -	REVISED: 3-05-12	REGION 2 / DISTRICT 2 STANDARD	SHEET NO. OF SHEETS: 1 STA. TO STA.	18	02 RS 2015-5	WINNEBAGO	11
DATE: 6-21-14	DATE: 6-21-14	DATE: -	DATE: -	TYPICAL PAVEMENT MARKINGS	SHEET 2 OF 3	41.1	CONTRACT NO. 64M179		

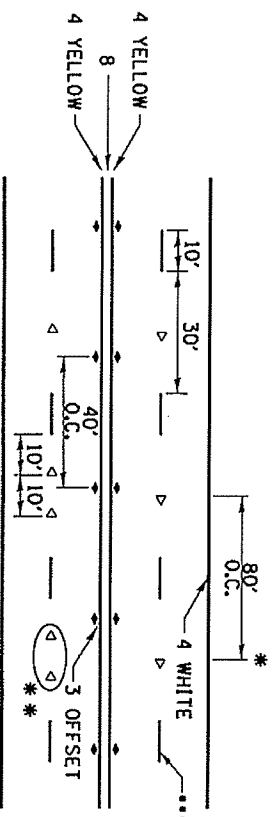
# TYPICAL PAVEMENT MARKINGS

## TYPICAL PARKING SPACING



\* SEE HIGHWAY STANDARD 781001 FOR SPACING DETAILS.  
 USE DOUBLE MARKERS WHEN ADT > 20,000.

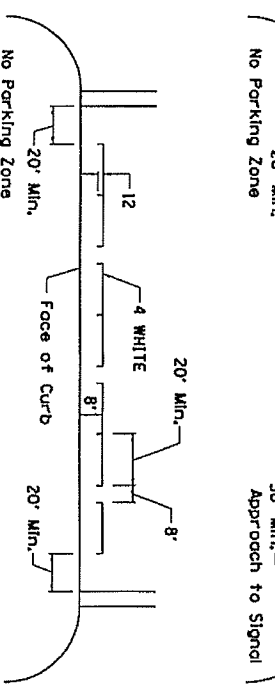
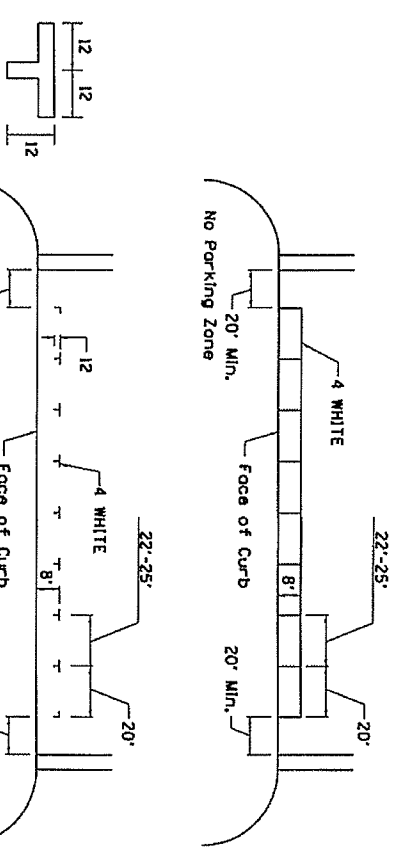
### MULTI-LANE / DIVIDED



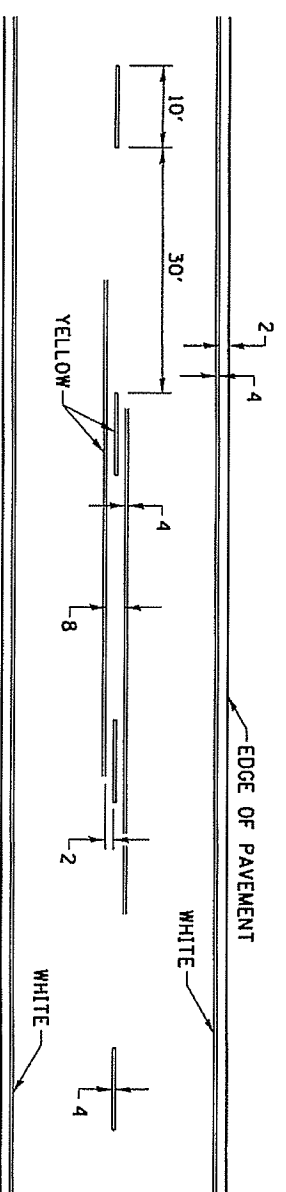
- REDUCE TO 40' O.C. ON CURVES WHERE ADVISORY SPEEDS ARE 10 MPH LOWER THAN POSTED SPEEDS.
- USE DOUBLE MARKERS WHEN ADT > 20,000
- CENTERLINE SKIP DASH PAVEMENT MARKING SPEED LIMIT LESS THAN 40 MPH USE 4" LINE. SPEED LIMIT 40 MPH AND OVER USE 6" LINE.

### MULTI-LANE / UNDIVIDED & ONE WAY

(FOR MULTI-LANE UNDIVIDED HIGHWAYS USE THIS  
 DETAIL NOT HIGHWAY STANDARD 781001)



### TYPICAL PAVEMENT MARKING FOR TWO LANE SECTION -- NO PASSING ZONES



FILE NAME: 1.mds.mch	DESIGNED: 6-27-14	REVISIONS:
DATE: 10/28/14	CHECKED: 11-28-12	REVISIONS:
PROJECT: 15-01-01-01-01-01	DATE:	REVISIONS:

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

REGION 2 / DISTRICT 2 STANDARD

FILE NO.	SECTION	COUNTY	TOTAL SHEETS
39	02 05 2018-5	WINNEBAGO	14
SCALE:	SHEET NO. OF SHEETS	S.I.A.	CONTRACT NO. 64M79
	07	10 S.I.A.	