

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

F.A.P. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
322	(9-1,9)RS-7	JACKSON	43	1
		BLDG NO.	CONTRACT NO. 78673	

FOR INDEX OF SHEETS, SEE SHEET NO. 3

FOR SUMMARY OF QUANTITIES, SEE SHEET NO. 6-8

# PROPOSED HIGHWAY PLANS

FAP 322 (US 51)  
SECTION (9-1,9)RS-7  
PROJECT NHPP-65YN(237)  
RESURFACING AND PATCHING  
JACKSON COUNTY

**TRAFFIC DATA**  
SEE SHEET NO. 3

**TOWNSHIPS**  
CARBONDALE

DESIGN DESIGNATION : N/A

COORDINATE SYSTEM : ILLINOIS EAST

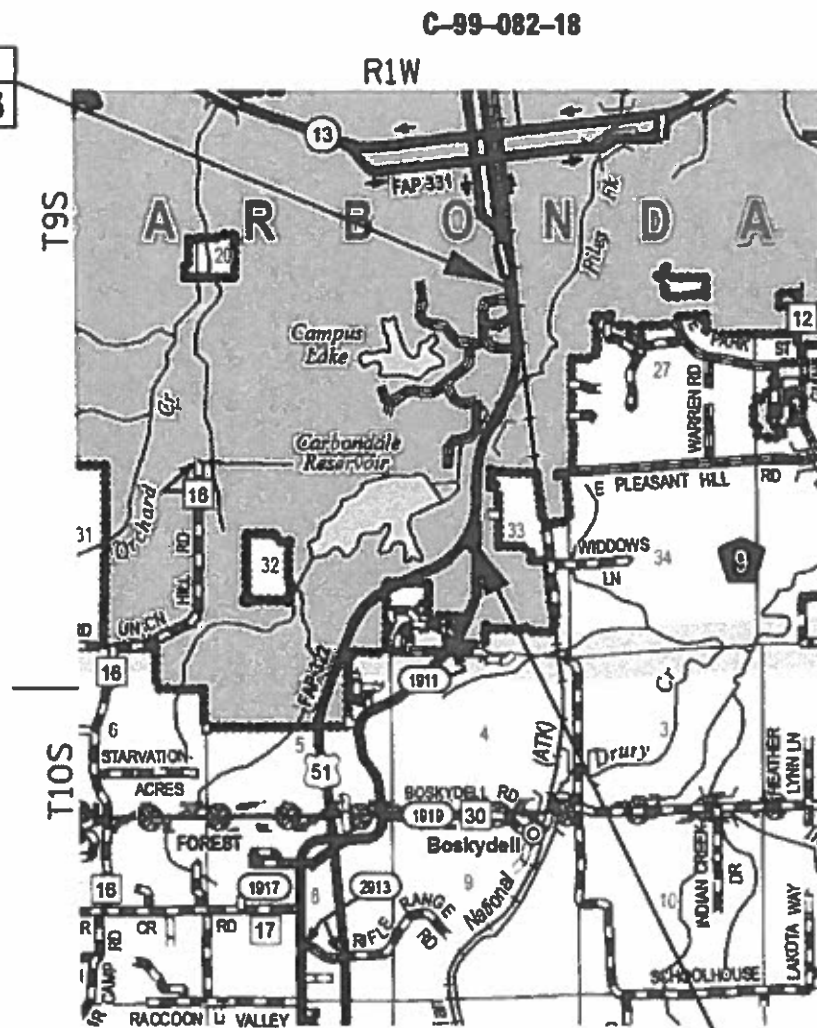
POSTED SPEED : 30 MPH - 45 MPH

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

PROJECT ENGINEER VALERIE ROLLA (618) 351-5214  
PROJECT DESIGNER AESHA JACKSON (618) 351-5220

CONTRACT NO. 78673

PROJECT ENDS  
AT STA. 456+10.23



GROSS LENGTH = 8374 FT. = 1.60 MILES  
NET LENGTH = 7638 FT. = 1.44 MILES

PROJECT BEGINS  
AT STA. 372+36.23



STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SUBMITTED June 3 2019  
Keith Roberts  
REGION FIVE ENGINEER

June 14 2019  
EA. ETS  
ENGINEER OF DESIGN AND ENVIRONMENT

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

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OF THE STATE OF ILLINOIS

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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

SCALE: SHEET OF SHEETS STA TO STA

F.A.P. RITE	SECTION	COUNTY	TOTAL SHEET
322	(9-1,9)RS-7	JACKSON	SHEETS NO.
			43
			2
			CONTRACT NO. 78673

Prepared By:

*Charles Steiner*  
DISTRICT STUDIES & PLANS ENGINEER

Examined By:

DISTRICT LAND ACQUISITION ENGINEER

Examined By:

*Sam Miller*  
DISTRICT PROGRAM DEVELOPMENT ENGINEER

Examined By:

*Kelley*  
DISTRICT OPERATIONS ENGINEER

Examined By:

*KEE*  
DISTRICT PROJECT IMPLEMENTATION ENGINEER

Examined By:

*Donald J. Williams*  
DISTRICT CONSTRUCTION ENGINEER

Examined By:

*[Signature]*  
DISTRICT MATERIALS ENGINEER

# INDEX OF SHEETS

SHEET NO.	DESCRIPTION
1	COVER SHEET
2	SIGNATURE SHEET
3 - 5	INDEX OF SHEETS, GENERAL NOTES, STANDARDS, OMISSION, COMMITMENTS, STATION EQUATION, TRAFFIC DATA, MTD TABLE
6 - 8	SUMMARY OF QUANTITIES
9 - 19	TYPICAL SECTION
20	US 51 (FAP 322) MAINLINE RESURFACING SCHEDULE
21 - 22	PAVEMENT MARKING SCHEDULE
23	PATCHING SCHEDULES
24 - 41	DESIGN DETAILS FOR US 51 (FAP 322)
42	DETAILS FOR BUTT JOINTS
43	UNEVEN LANE SIGN DETAIL AND ROUGH GROVED SURFACE SIGNS

# TRAFFIC DATA

US 51 (FAP 322)	LOC A:	LOC B:	LOC C:
<b>M.P.</b>	(16.54-16.75)	(16.75-17.76)	(17.76-18.18)
<b>(2018)</b>			
PV =	14,295	8,965	12,805
SU =	885	455	655
MU =	480	280	380
ADT =	15,660	9,700	13,840
<b>(2038)</b>			
PV =	17,435	10,935	15,620
SU =	1,080	555	800
MU =	585	340	460
ADT =	19,100	11,830	16,880

# STANDARDS

- 000001-07 STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
- 442201-03 CLASS C AND D PATCHES
- 701101-05 OFF ROAD OPERATIONS, MULTILANE, 15 FT (4.5 M) TO 24" (600 MM) FROM PAVEMENT EDGE
- 701106-02 OFF ROAD OPERATIONS, MULTILANE, MORE THAN 15 FT (4.5 M) AWAY
- 701427-05 LANE CLOSURE, MULTILANE, INTERMITTENT OR MOVING OPERATIONS FOR SPEEDS ≤ 40 MPH
- 701602-10 URBAN LANE CLOSURE, MULTILANE, 2W WITH BIDIRECTIONAL LEFT TURN LANE
- 701606-10 URBAN LANE CLOSURE, MULTILANE, 2W WITH MOUNTABLE MEDIAN
- 701701-10 URBAN LANE CLOSURE, MULTILANE INTERSECTION
- 701901-08 TRAFFIC CONTROL DEVICES
- 780001-05 TYPICAL PAVEMENT MARKINGS
- 781001-04 TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS

# OMISSIONS

STA. 390+58.40 TO STA. 395+66.93  
 STA. 443+93.05 TO STA. 446+19.22

# STATION EQUATIONS

STA. EQ. 432+92.91 (BK) = STA. 432+93.15 (AH)

# MTD CROSSING RESTRICTIONS TABLE

SN & CENTERLINE STATION ROUTE (FAP 322 (US 51))	EXISTING FILL HEIGHT OVER BOX CULVERT	TYPE (HEIGHT X WIDTH)	THICKNESS OF EXISTING PAVEMENT OVER BOX CULVERT	MTD CROSSING RESTRICTIONS
	FOOT		FOOT	
SN 039-2023 (STA. 406+20)	5	(11.5X12.3) CULVERT	15.5"	EMPTIED
SN 039-7054 (MP 7.9)	6	(6X12) CULVERT	15.5"	EMPTIED
SN 039-7102 (MP 7.1)	1.5	(4X6) CULVERT	N/A	EMPTIED
SN 039-7103 (MP 7.7)	1	(7.5X10) CULVERT	9.5"	NO MTD ALLOWED

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# 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.  
 ALL AGGREGATE.....2.05 TONS/CU. YD.

THE ALGEBRAIC DIFFERENCE BETWEEN THE PAVEMENT AND SHOULDER SLOPES SHALL NOT EXCEED 8%. THE SHOULDER ON THE OUTSIDE OF SUPERELEVATED CURVES SHALL BE FLATTENED ACCORDINGLY.

THE QUANTITY OF SHORT TERM PAVEMENT MARKING SHOWN IN THE PLANS IS BASED ON ONE APPLICATION EACH FOR THE HMA SURFACE REMOVAL, BINDER COURSE, AND SURFACE COURSE

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.

CONTRACTOR SHALL COMPLETE ALL PATCHING PRIOR TO THE HOT MIX ASPHALT SURFACE REMOVAL.

RECLAIMED ASPHALT PAVEMENT (RAP) WILL NOT BE ALLOWED FOR USE AS AGGREGATE IN AGGREGATE SHOULDERS, TYPE B.

A CONTRACTOR'S RIGHT-OF-ENTRY PERMIT IS REQUIRED BEFORE ANY WORK CAN COMMENCE ON RAILROAD PROPERTY. THE COST TO OBTAIN THIS PERMIT SHALL BE CONSIDERED INCIDENTAL TO THE PROJECT.

AT ALL LOCATIONS WHERE THE PROPOSED HOT MIX ASPHALT OR CONCRETE PAVEMENT JOINS AN EXISTING HOT MIX ASPHALT OR CONCRETE PAVEMENT, A FULL DEPTH SAWED JOINT SHALL BE CONSTRUCTED. THE COST OF THIS JOINT WILL BE INCLUDED IN THE COST OF THE TYPE OF PAVEMENT BEING CONSTRUCTED.

THE CONTRACTOR SHALL STAMP STATIONING IN THE PROPOSED HOT MIX ASPHALT SURFACE AT 300 FT INTERVALS ON ALTERNATING SIDES OF THE PAVEMENT AND AS DIRECTED BY THE ENGINEER. THE STATION SYMBOL STAMPS USED SHALL BE FURNISHED BY THE CONTRACTOR. THEY SHALL BE 5 1/2 IN. TALL, OF A DESIGN APPROVED BY THE ENGINEER, AND SHALL REMAIN THE PROPERTY OF THE CONTRACTOR.

PRIOR TO PLACEMENT OF THE FINAL PAVEMENT MARKINGS THE RESIDENT ENGINEER SHALL CONTACT THE BUREAU OF OPERATIONS AND ARRANGE FOR INSPECTION AND APPROVAL OF THE PAVEMENT MARKING LAYOUT.

REVISE STANDARD SPECIFICATIONS ARTICLE 107.12, PARAGRAPH 5, LAST SENTENCE TO READ: 'ALL OTHER RAILROAD FLAGGER COSTS WILL BE INCURRED BY THE DEPARTMENT ACCORDING TO ARTICLE 109.05.'

COMMITMENTS: NONE

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						CONTRACT NO. 78673 ILLINOIS FED. AID PROJECT	

# MIXTURE DESIGN

Locations	Hot-Mix Asphalt Surface Course
Mixture Use(s):	Polymerized Hot-Mix Asphalt Surface Course, Mix D, N90
AB/PG:	SBS PG76-22
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:	QCP
Sublot Size:	NA

Locations	Hot-Mix Asphalt Shoulders
Mixture Use(s):	Hot-Mix Asphalt Surface Course, N30, IL-9.5L
AB/PG:	PG64-22
ABR % (Max):	See Special Provision
Design Air Voids:	4.0 %, 30 Gyration Design
Mixture Composition: (Gradation Mixture)	IL-9.5L
Friction Aggregate:	None
Mixture Weight:	112 lbs/Sq Yd/in
Quality Management Program:	QCQA
Sublot Size:	NA

Locations	Pavement Patching
Mixture Use(s):	Hot-Mix Asphalt Binder Course, IL-19.0, N90
AB/PG:	PG64-22
ABR % (Max):	See Special Provision
Design Air Voids:	4.0 %, 90 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

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USER NAME = jacksonac	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>GENERAL NOTES—CONTINUED AND MIXTURE DESIGN</b>	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
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PLOT DATE = 6/4/2019	CHECKED -	REVISED -			CONTRACT NO. 78673					
	DATE -	REVISED -			SCALE:	SHEET	OF	SHEETS	STA.	TO STA.

# SUMMARY OF QUANTITIES

<b>COUNTY:</b>	<b>JACKSON</b>
<b>ROUTE:</b>	<b>US 51</b>
<b>FUNDING:</b>	<b>80%FED20%STATE</b>
<b>LOCATION:</b>	<b>URBAN</b>
	<b>ROADWAY</b>
	<b>0005</b>

CODE NUMBER	ITEM DESCRIPTION	UNIT	QUANTITY
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	24,446
40600990	TEMPORARY RAMP	SQ YD	115
40603545	POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N90	TON	4,524
44000155	HOT-MIX ASPHALT SURFACE REMOVAL, 1 1/2"	SQ YD	53,477
44201811	CLASS D PATCHES, TYPE I, 14 INCH	SQ YD	18
44201815	CLASS D PATCHES, TYPE II, 14 INCH	SQ YD	238
44201819	CLASS D PATCHES, TYPE III, 14 INCH	SQ YD	32
44201821	CLASS D PATCHES, TYPE IV, 14 INCH	SQ YD	52
48203100	HOT-MIX ASPHALT SHOULDERS	TON	729
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	1
67100100	MOBILIZATION	L SUM	1
70102625	TRAFFIC CONTROL AND PROTECTION, STANDARD 701606	L SUM	1
70102632	TRAFFIC CONTROL AND PROTECTION, STANDARD 701602	L SUM	1

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# SUMMARY OF QUANTITIES - CONT'D

<b>COUNTY:</b>	<b>JACKSON</b>
<b>ROUTE:</b>	<b>US 51</b>
<b>FUNDING:</b>	<b>80%FED20%STATE</b>
<b>LOCATION:</b>	<b>URBAN ROADWAY 0005</b>

CODE NUMBER	ITEM DESCRIPTION	UNIT	QUANTITY
70102635	TRAFFIC CONTROL AND PROTECTION, STANDARD 701701	L SUM	1
70300100	SHORT TERM PAVEMENT MARKING	FOOT	2,576
70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SQ FT	863
70300210	TEMPORARY PAVEMENT MARKING LETTERS AND SYMBOLS	SQ FT	1,777
70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	83,230
70300240	TEMPORARY PAVEMENT MARKING - LINE 6"	FOOT	3,397
70300250	TEMPORARY PAVEMENT MARKING - LINE 8"	FOOT	615
70300260	TEMPORARY PAVEMENT MARKING - LINE 12"	FOOT	720
70300280	TEMPORARY PAVEMENT MARKING - LINE 24"	FOOT	671
* 78009000	MODIFIED URETHANE PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	1,777
* 78009004	MODIFIED URETHANE PAVEMENT MARKING - LINE 4"	FOOT	83,230
* 78009006	MODIFIED URETHANE PAVEMENT MARKING - LINE 6"	FOOT	3,397
* 78009008	MODIFIED URETHANE PAVEMENT MARKING - LINE 8"	FOOT	615

\* SPECIALTY ITEM

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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**SUMMARY OF QUANTITIES**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
322	(9-1,9)RS-7	JACKSON	43	7
CONTRACT NO. 78673				
ILLINOIS FED. AID PROJECT				

# SUMMARY OF QUANTITIES - CONT

COUNTY:	COUNTY:	JACKSON
ROUTE:	ROUTE:	US 51
FUNDING:	FUNDING:	80%FED20%STATE
LOCATION:	LOCATION:	URBAN
	TOTAL QUANTITY	ROADWAY
		0005

	CODE NUMBER	ITEM DESCRIPTION	UNIT	TOTAL QUANTITY	
*	78009012	MODIFIED URETHANE PAVEMENT MARKING - LINE 12"	FOOT	720	720
*	78009024	MODIFIED URETHANE PAVEMENT MARKING - LINE 24"	FOOT	671	671
*	78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	583	583
	78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	589	589
*	88600100	DETECTOR LOOP, TYPE I	FOOT	4,032	4,032
	X0327980	PAVEMENT MARKING REMOVAL - WATER BLASTING	SQ FT	1,401	1,401
	70107025	CHANGEABLE MESSAGE SIGN	CAL DA	28	28
	X7030005	TEMPORARY PAVEMENT MARKING REMOVAL	SQ FT	33,292	33,292
	Z0033700	LONGITUDINAL JOINT SEALANT	FOOT	33,496	33,496
	Z0034105	MATERIAL TRANSFER DEVICE	TON	4,524	4,524
	Z0048665	RAILROAD PROTECTIVE LIABILITY INSURANCE	L SUM	1	1

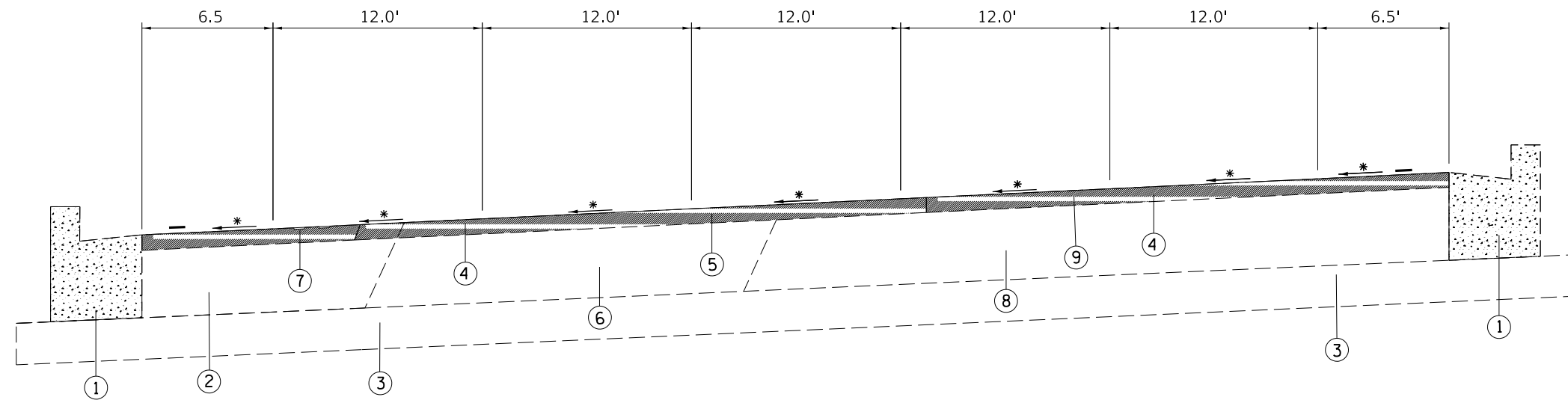
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# TYPICAL SECTION

## FAP RTE. 322 (US 51)



TO BE USED:  
STA. 372+36.23 TO STA. 380+08.73

- NOTE:**
- ① EXISTING CONCRETE CURB AND GUTTER, TYPE B
  - ② EXISTING HOT-MIX ASPHALT SHOULDERS, 18 INCHES
  - ③ EXISTING LIME MODIFIED SOILS, 12 INCHES
  - ④ EXISTING HOT-MIX ASPHALT, 1½ INCHES
  - ⑤ PROPOSED HOT-MIX ASPHALT SURFACE COURSE, MIX D, N 90, 1½ INCHES
  - ⑥ EXISTING BINDER BASE COURSE, 12½ INCHES
  - ⑦ EXISTING SHOULDER RUMBLE STRIPS, 16 INCHES
  - ⑧ EXISTING BINDER BASE COURSE, 13½ INCHES
  - ⑨ PROPOSED HOT-MIX SURFACE REMOVAL, 1½ INCHES
- \* MATCH EXISTING SLOPE

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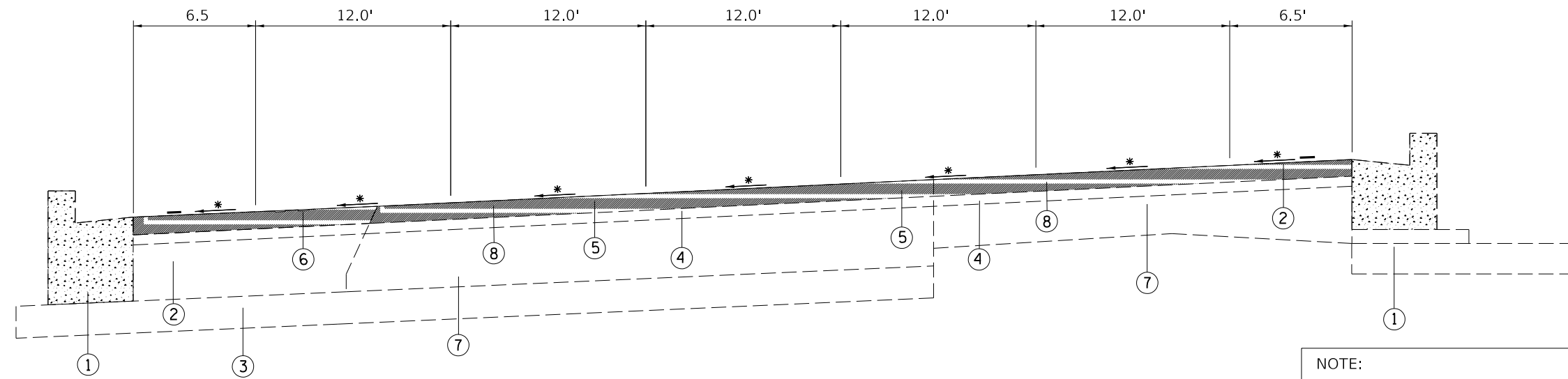
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

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

F.A.P. RTE. 322	SECTION (9-1,9)RS-7	COUNTY JACKSON	TOTAL SHEETS 43	SHEET NO. 9
			CONTRACT NO. 78673	
		ILLINOIS FED. AID PROJECT		

# TYPICAL SECTION

## FAP RTE. 322 (US 51)



TO BE USED:  
STA. 380+08.73 TO STA. 386+84.38

**NOTE:**

- ① EXISTING CONCRETE CURB AND GUTTER, TYPE B
- ② EXISTING HOT-MIX ASPHALT SHOULDERS, 1½ FT
- ③ EXISTING LIME MODIFIED SOILS, 12 INCHES
- ④ EXISTING HOT-MIX ASPHALT, 1½ INCHES
- ⑤ PROPOSED HOT-MIX ASPHALT SURFACE COURSE, MIX D, N 90, 1½ INCHES
- ⑥ EXISTING SHOULDER RUMBLE STRIPS, 16 INCHES
- ⑦ EXISTING HOT-MIX ASPHALT, 12½ INCHES
- ⑧ PROPOSED HOT-MIX SURFACE REMOVAL, 1½ INCHES

\* MATCH EXISTING SLOPE

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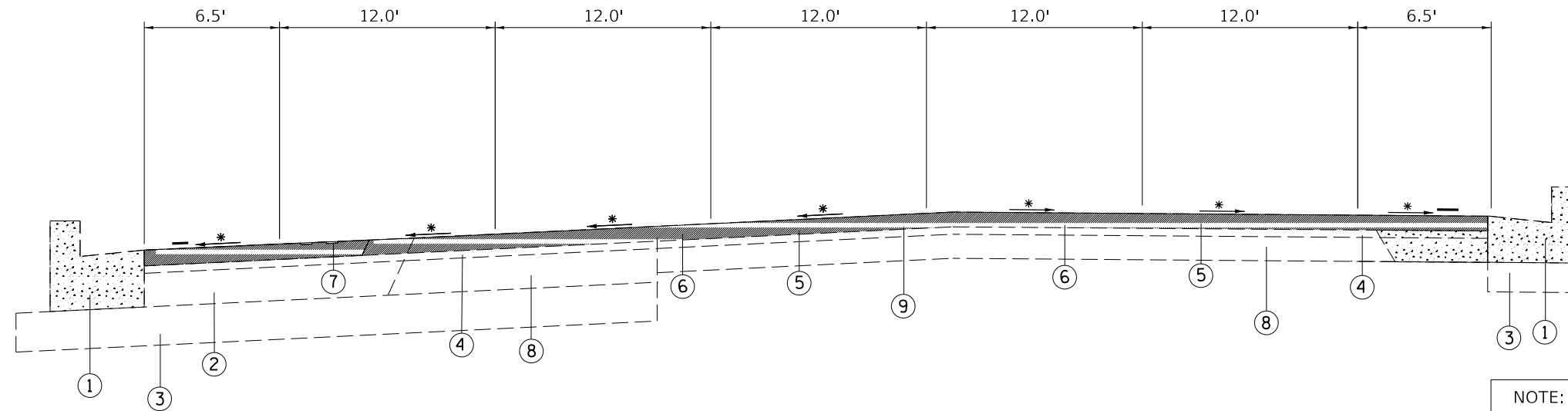
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

TYPICAL SECTION	
SCALE:	SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
322	(9-1,9)RS-7	JACKSON	43	10
CONTRACT NO. 78673				
ILLINOIS FED. AID PROJECT				

# TYPICAL SECTION

## FAP RTE. 322 (US 51)



TO BE USED:  
STA. 386+84.38 TO STA. 387+76.25

- NOTE:**
- ① EXISTING CONCRETE CURB AND GUTTER, TYPE B
  - ② EXISTING HOT-MIX ASPHALT SHOULDERS, 1 1/8 FT
  - ③ EXISTING LIME MODIFIED SOILS, 12 INCHES
  - ④ EXISTING HOT-MIX ASPHALT, 1 1/2 INCHES
  - ⑤ PROPOSED HOT-MIX ASPHALT SURFACE COURSE, MIX D, N 90, 1 1/2 INCHES
  - ⑥ EXISTING BINDER BASE COURSE, 12 1/2 INCHES
  - ⑦ EXISTING SHOULDER RUMBLE STRIPS, 16 INCHES
  - ⑧ EXISTING HOT-MIX ASPHALT, 12 1/2 INCHES
  - ⑨ PROPOSED HOT-MIX SURFACE REMOVAL, 1 1/2 INCHES
- \* MATCH EXISTING SLOPE

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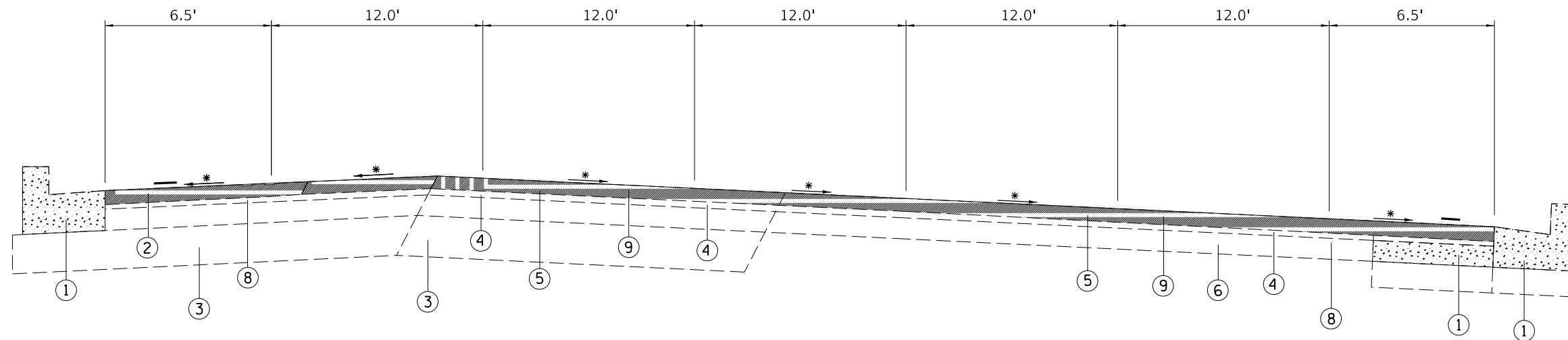
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

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

F.A.P. RTE. 322	SECTION (9-1,9)RS-7	COUNTY JACKSON	TOTAL SHEETS 43	SHEET NO. 11
CONTRACT NO. 78673				
ILLINOIS FED. AID PROJECT				

# TYPICAL SECTION

## FAP RTE. 322 (US 51)



TO BE USED:  
STA. 387+76.25 TO STA. 390+58.40

- NOTE:**
- ① EXISTING CONCRETE CURB AND GUTTER, TYPE B
  - ② EXISTING HOT-MIX ASPHALT SHOULDERS, 1½ FT
  - ③ EXISTING LIME MODIFIED SOILS, 12 INCHES
  - ④ EXISTING HOT-MIX ASPHALT, 1½ INCHES
  - ⑤ PROPOSED HOT-MIX ASPHALT SURFACE COURSE, MIX D, N 90, 1½ INCHES
  - ⑥ EXISTING BINDER BASE COURSE, 12½ INCHES
  - ⑦ EXISTING SHOULDER RUMBLE STRIPS, 16 INCHES
  - ⑧ EXISTING HOT-MIX ASPHALT, 12½ INCHES
  - ⑨ PROPOSED HOT-MIX SURFACE REMOVAL, 1½ INCHES
- \* MATCH EXISTING SLOPE

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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

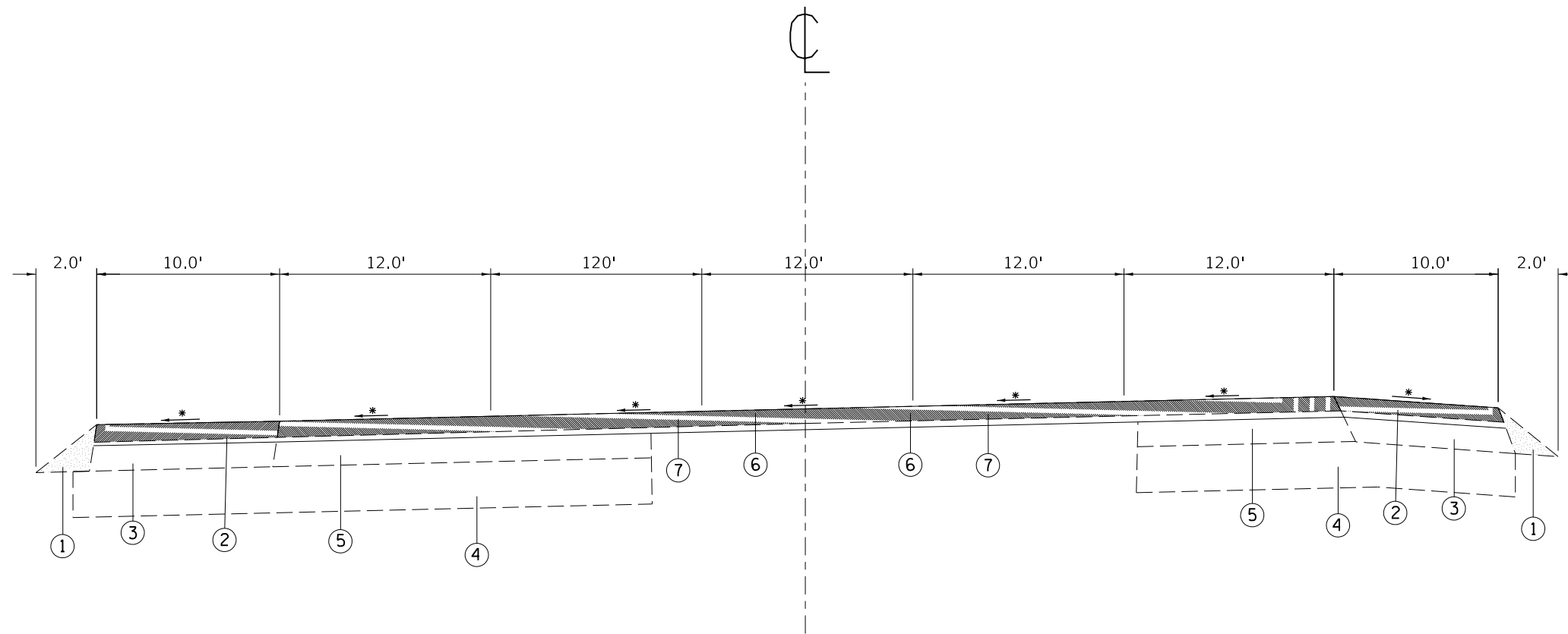
**TYPICAL SECTION**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
322	(9-1,9)RS-7	JACKSON	43	12
CONTRACT NO. 78673				
ILLINOIS FED. AID PROJECT				

# TYPICAL SECTION

## FAP RTE. 322 (US 51)



### TO BE USED:

STA. 395+66.93 TO STA. 432+92.91  
 STA. EQ. 432+92.91 (BK) TO STA. 432+93.15 (AH)  
 STA. 432+93.15 TO STA. 433+66.14

#### NOTE:

- ① EXISTING AGGREGATE SHOULDERS
- ② PROPOSED HOT-MIX ASPHALT SHOULDER, 1 1/2 INCHES
- ③ EXISTING HOT-MIX ASPHALT SHOULDERS, 1 1/2 FT
- ④ EXISTING LIME MODIFIED SOILS, 12 INCHES
- ⑤ EXISTING HOT-MIX ASPHALT, 1 1/2 INCHES
- ⑥ PROPOSED HOT-MIX ASPHALT SURFACE COURSE, MIX D, N 90, 1 1/2 INCHES
- ⑦ PROPOSED HOT-MIX SURFACE REMOVAL, 1 1/2 INCHES

\* MATCH EXISTING SLOPE

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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

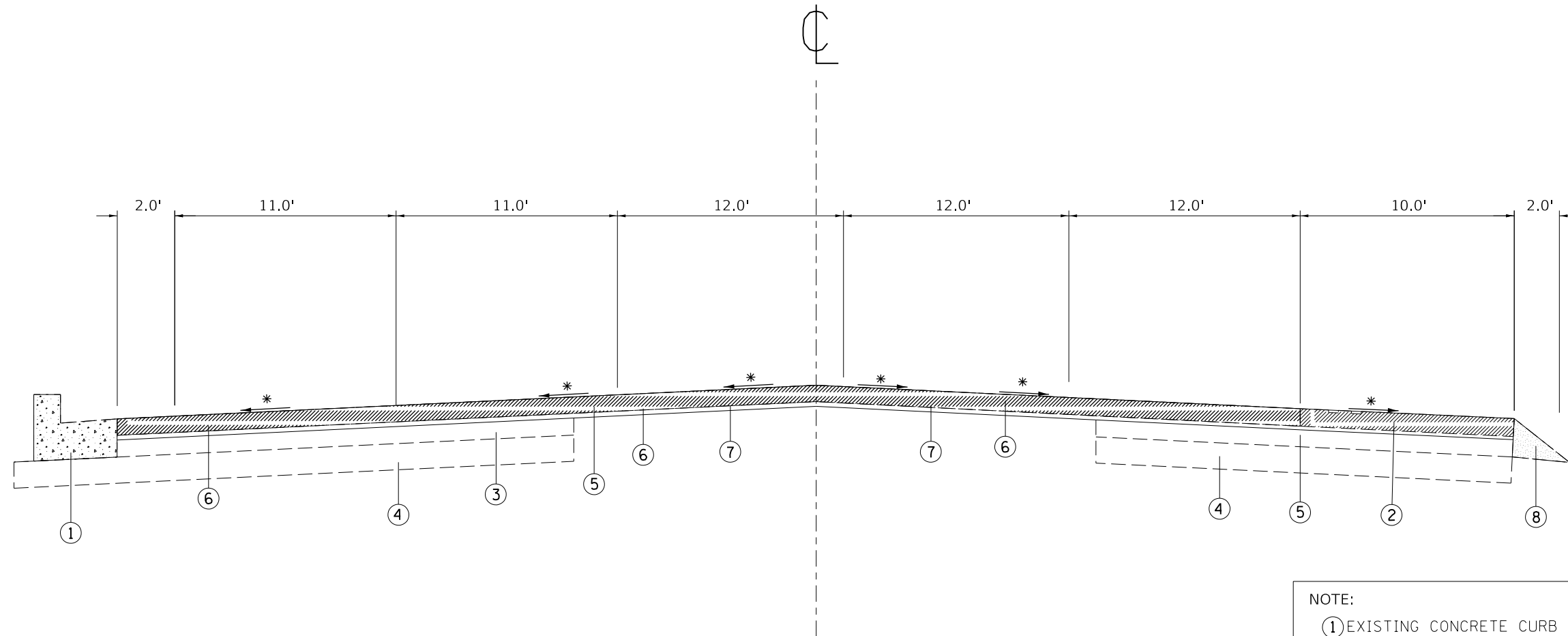
#### TYPICAL SECTION

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE. 322	SECTION (9-1,9)RS-7	COUNTY JACKSON	TOTAL SHEETS 43	SHEET NO. 13
			CONTRACT NO. 78673	
		ILLINOIS FED. AID PROJECT		

# TYPICAL SECTION

## FAP RTE. 322 (US 51)



TO BE USED:  
STA. 433+66.14 TO STA. 437+99.21

- NOTE:**
- ① EXISTING CONCRETE CURB AND GUTTER, TYPE B
  - ② PROPOSED HOT-MIX ASPHALT SHOULDER, 1½ INCHES
  - ③ EXISTING CONCRETE PAVEMENT, 18 INCHES
  - ④ EXISTING LIME MODIFIED SOILS, 12 INCHES
  - ⑤ EXISTING HOT-MIX ASPHALT, 1½ INCHES
  - ⑥ PROPOSED HOT-MIX ASPHALT SURFACE COURSE, MIX D, N 90, 1½ INCHES
  - ⑦ PROPOSED HOT-MIX SURFACE REMOVAL, 1½ INCHES
  - ⑧ EXISTING AGGREGATE SHOULDERS
- \* MATCH EXISTING SLOPE

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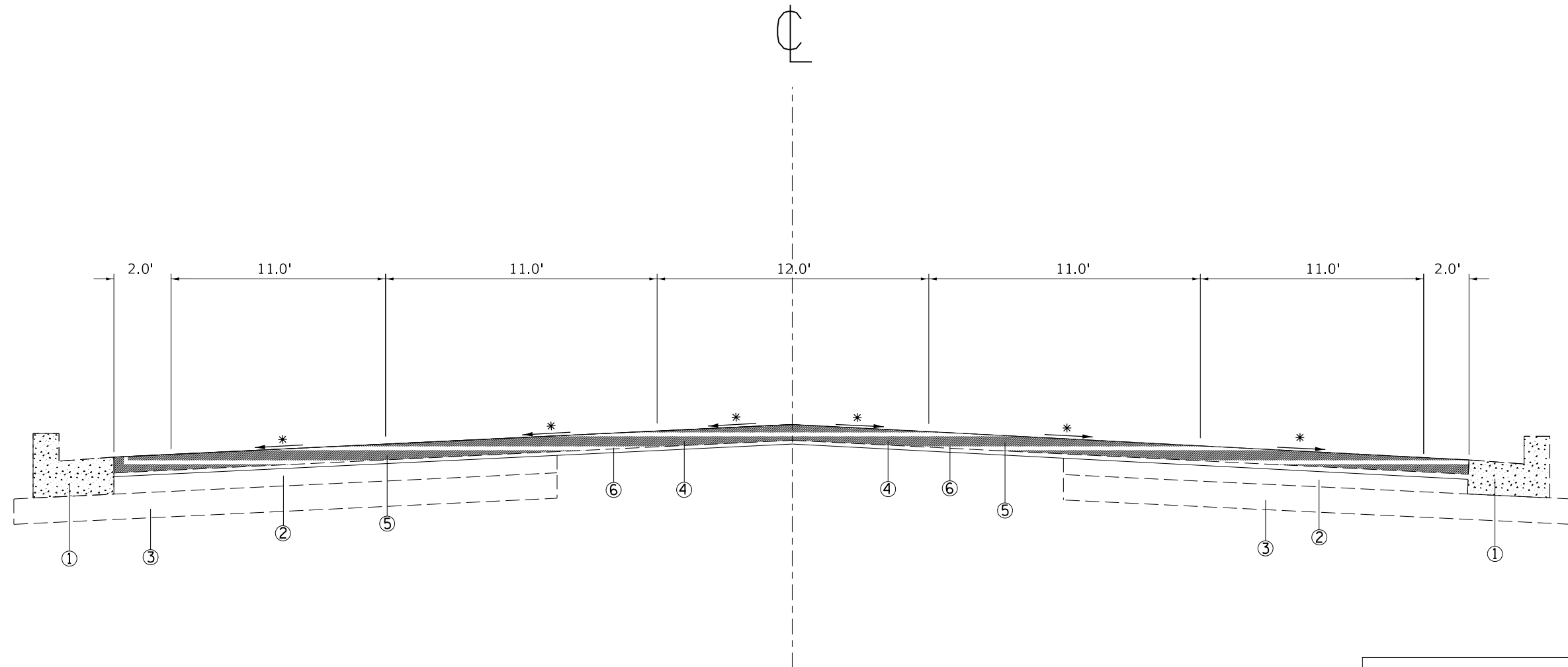
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

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

F.A.P. RTE. 322	SECTION (9-1,9)RS-7	COUNTY JACKSON	TOTAL SHEETS 43	SHEET NO. 14
CONTRACT NO. 78673				
ILLINOIS FED. AID PROJECT				

# TYPICAL SECTION

## FAP RTE. 322 (US 51)



TO BE USED:  
STA. 437+99.21 TO STA. 443+93.05

- NOTE:**
- ① EXISTING CONCRETE CURB AND GUTTER, TYPE B
  - ② EXISTING CONCRETE PAVEMENT, 18 INCHES
  - ③ EXISTING LIME MODIFIED SOILS, 12 INCHES
  - ④ EXISTING HOT-MIX ASPHALT, 1½ INCHES
  - ⑤ PROPOSED HOT-MIX ASPHALT SURFACE COURSE, MIX D, N 90, 1½ INCHES
  - ⑥ PROPOSED HOT-MIX SURFACE REMOVAL, 1½ INCHES
- \* MATCH EXISTING SLOPE

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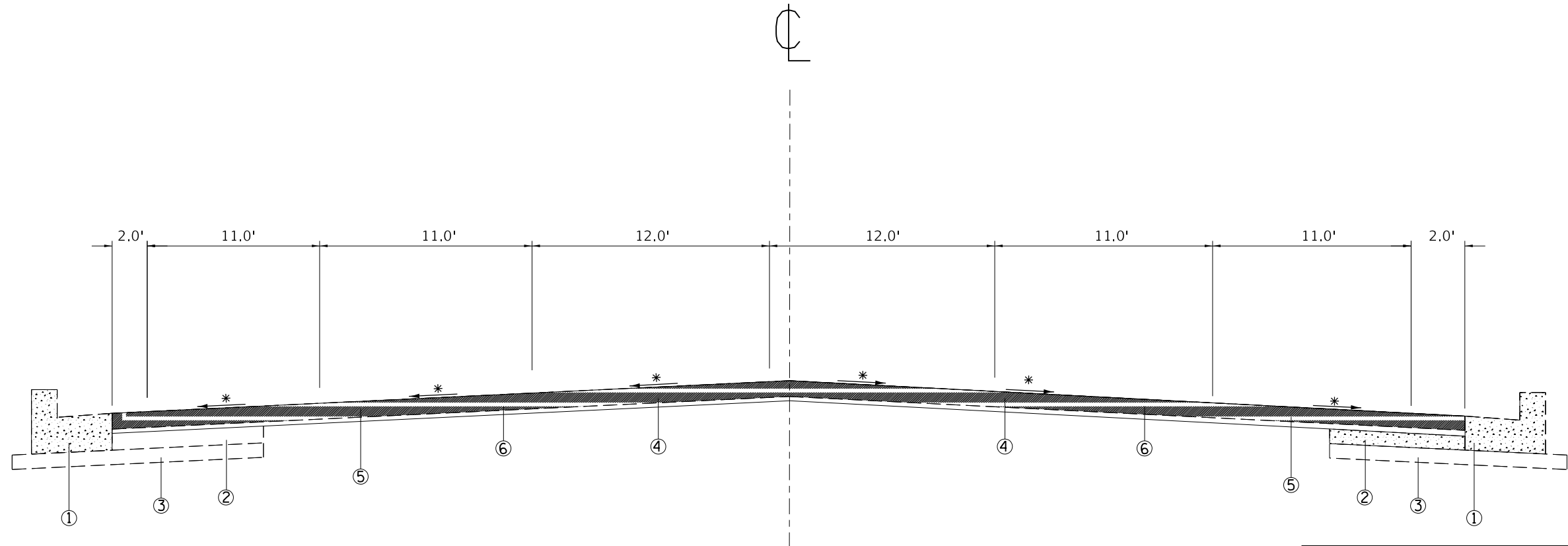
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

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

F.A.P. RTE. 322	SECTION (9-1,9)RS-7	COUNTY JACKSON	TOTAL SHEETS 43	SHEET NO. 15
CONTRACT NO. 78673				
ILLINOIS FED. AID PROJECT				

# TYPICAL SECTION

## FAP RTE. 322 (US 51)



TO BE USED:  
STA. 446+19.42 TO STA. 447+84.45

- NOTE:**
- ① EXISTING CONCRETE CURB AND GUTTER, TYPE B
  - ② EXISTING CONCRETE PAVEMENT, 18 INCHES
  - ③ EXISTING LIME MODIFIED SOILS, 12 INCHES
  - ④ EXISTING HOT-MIX ASPHALT, 1½ INCHES
  - ⑤ PROPOSED HOT-MIX ASPHALT SURFACE COURSE, MIX D, N 90, 1½ INCHES
  - ⑥ PROPOSED HOT-MIX SURFACE REMOVAL, 1½ INCHES
- \* MATCH EXISTING SLOPE

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	DRAWN -	REVISED -
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PLOT DATE = 6/4/2019	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**TYPICAL SECTION**

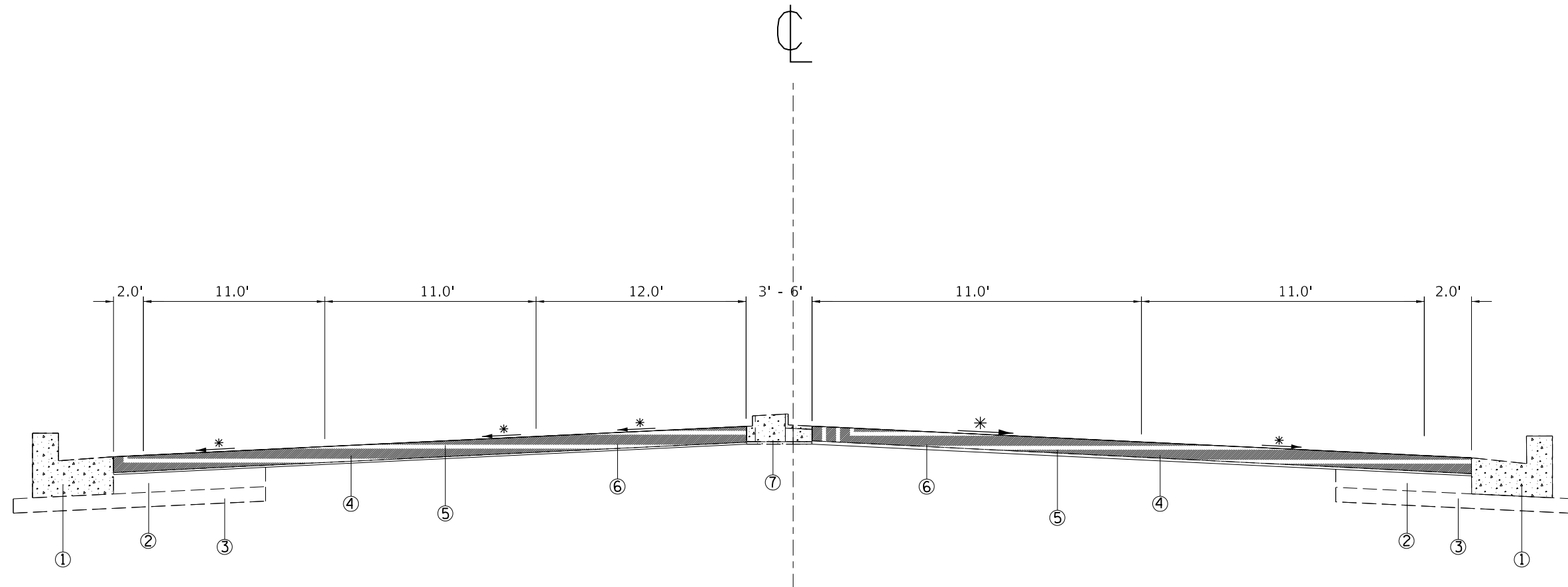
SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
322	(9-1,9)RS-7	JACKSON	43	16
CONTRACT NO. 78673				
ILLINOIS		FED. AID PROJECT		



# TYPICAL SECTION

## FAP RTE. 322 (US 51)



TO BE USED:  
STA. 447+84.45 TO STA. 448+65.49

**NOTE:**

- ① EXISTING CONCRETE CURB AND GUTTER, TYPE B
- ② EXISTING CONCRETE PAVEMENT, 18 INCHES
- ③ EXISTING LIME MODIFIED SOILS, 12 INCHES
- ④ EXISTING HOT-MIX ASPHALT, 1½ INCHES
- ⑤ PROPOSED HOT-MIX ASPHALT SURFACE COURSE, MIX D, N 90, 1½ INCHES
- ⑥ PROPOSED HOT-MIX SURFACE REMOVAL, 1½ INCHES
- ⑦ EXISTING CONCRETE MEDIAN, TYPE B

\* MATCH EXISTING SLOPE

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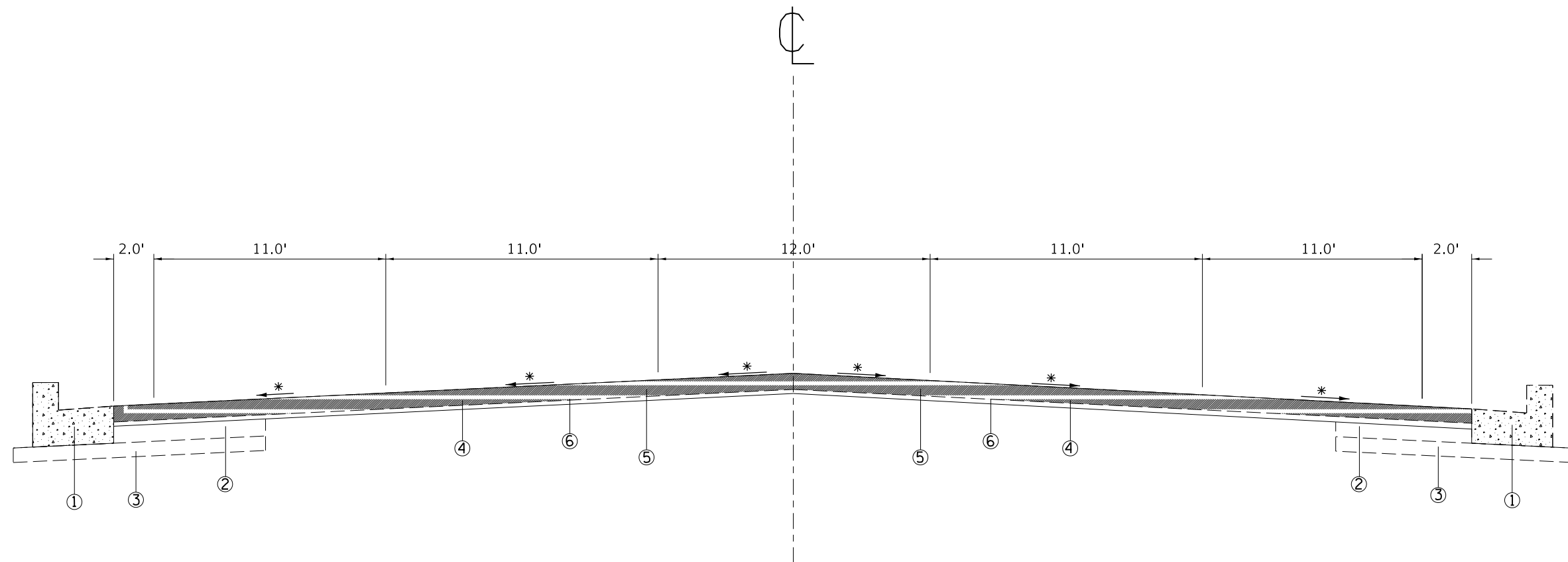
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

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

F.A.P. RTE. 322	SECTION (9-1,9)RS-7	COUNTY JACKSON	TOTAL SHEETS 43	SHEET NO. 17
CONTRACT NO. 78673			ILLINOIS FED. AID PROJECT	

# TYPICAL SECTION

## FAP RTE. 322 (US 51)



TO BE USED:  
STA. 448+65.49 TO STA. 452+06.18

**NOTE:**

- ① EXISTING CONCRETE CURB AND GUTTER, TYPE B
  - ② EXISTING CONCRETE PAVEMENT, 18 INCHES
  - ③ EXISTING LIME MODIFIED SOILS, 12 INCHES
  - ④ EXISTING HOT-MIX ASPHALT, 1½ INCHES
  - ⑤ PROPOSED HOT-MIX ASPHALT SURFACE COURSE, MIX D, N 90, 1½ INCHES
  - ⑥ PROPOSED HOT-MIX SURFACE REMOVAL, 1½ INCHES
- \* MATCH EXISTING SLOPE

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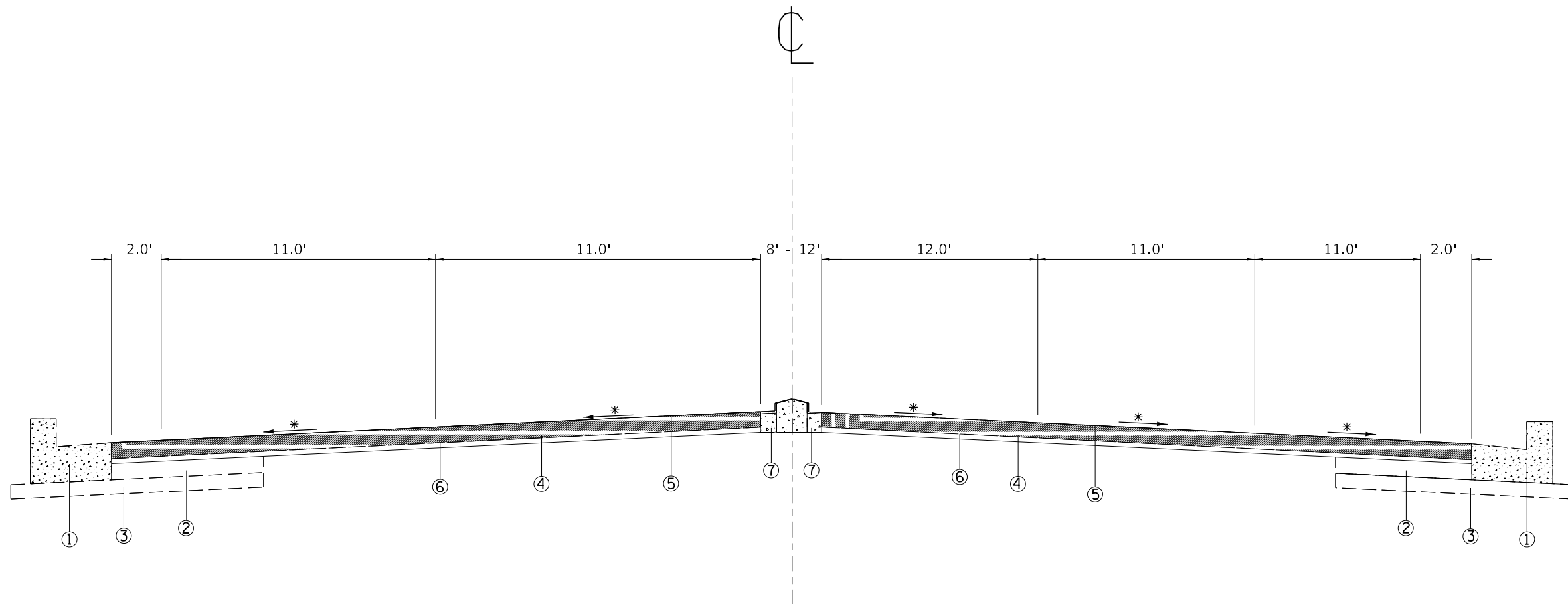
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

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

F.A.P. RTE. 322	SECTION (9-1,9)RS-7	COUNTY JACKSON	TOTAL SHEETS 43	SHEET NO. 18
CONTRACT NO. 78673				
ILLINOIS FED. AID PROJECT				

# TYPICAL SECTION

## FAP RTE. 322 (US 51)



TO BE USED:  
 STA. 452+06.18 TO STA. 455+34.78  
 STA. 455+34.78 TO STA. 456+10.23 (LT)

**NOTE:**

- ① EXISTING CONCRETE CURB AND GUTTER, TYPE B
  - ② EXISTING CONCRETE PAVEMENT, 18 INCHES
  - ③ EXISTING LIME MODIFIED SOILS, 12 INCHES
  - ④ EXISTING HOT-MIX ASPHALT, 1½ INCHES
  - ⑤ PROPOSED HOT-MIX ASPHALT SURFACE COURSE, MIX D, N 90, 1½ INCHES
  - ⑥ PROPOSED HOT-MIX SURFACE REMOVAL, 1½ INCHES
  - ⑦ EXISTING CONCRETE MEDIAN, TYPE B
- \* MATCH EXISTING SLOPE

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PLOT DATE = 6/4/2019	DATE -	REVISED -	

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**TYPICAL SECTION**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
322	(9-1,9)RS-7	JACKSON	43	19
CONTRACT NO. 78673				
ILLINOIS FED. AID PROJECT				

# US 51 MAINLINE RESURFACING SCHEDULE

LOCATION STATION TO STATION			LENGTH	ROADWAY WIDTH	SHOULDER WIDTH	TEMP RAMP	HMA SUR. REMOV. - 1 1/2"	POLY. HOT-MIX ASP. SUR. CSE., MIX D, N 90 (1 1/2")	BIT. MAT. (TACK COAT)	HMA SHOULDERS	NOTES	
			FOR INFORMATIONAL PURPOSE ONLY									
			(FT)	(FT)	(FT)							(SQ YD)
<b>MAINLINE: STA. 372+36.23 TO STA. 456+10.23</b>												
LT	372+36.23	TO	380+08.73	773	36.5		21	3,133	265	1,410		
RT	372+36.23	TO	380+08.73	773	36.5			3,133	265	1,410		
LT	380+08.73	TO	386+84.38	676	36.5			2,740	231	1,233		
RT	380+08.73	TO	386+84.38	676	36.5			2,740	231	1,233		
LT	386+84.38	TO	387+76.25	92	36.5			373	32	168		
RT	386+84.36	TO	387+76.25	92	36.5			373	32	168		
LT	387+76.25	TO	390+58.40	282	36.5			1,144	97	515		
RT	387+76.25	TO	390+58.40	282	36.5		21	1,144	97	515		
<b>OMIT PLEASANT HILL RD. INTERSECTION (STA. 390+58.40 TO STA. 395+66.93)</b>												
LT	395+66.93	TO	405+54.50	988	30	10	21	3,292	278	1,481	92	
RT	395+66.93	TO	405+54.50	988	30	10		3,292	278	1,481	92	
LT	405+54.50	TO	414+27.20	873	30	10		2,909	246	1,309	70	
RT	405+54.50	TO	414+27.20	873	30	10		2,909	246	1,309	70	
LT	414+27.20	TO	432+92.91	1,866	30	10		6,219	525	2,799	174	
RT	414+27.20	TO	432+92.91	1,866	30	10		6,219	525	2,799	174	
<b>STA. EQ. 432+92.91 (BACK) = STA. 432+93.15 (AHEAD)</b>												
LT	432+93.15	TO	433+93.15	100	30	10		333	29	150	9	
RT	432+93.15	TO	433+93.15	100	30	10		333	29	150	9	
LT	433+93.15	TO	437+99.21	406	30			1,354	115	609		
RT	433+93.15	TO	437+99.21	406	30	10		1,354	115	609	38	
LT	437+99.21	TO	443+93.05	594	30			1,979	167	891		
RT	437+99.21	TO	443+93.05	594	30		17	1,979	167	891		
<b>OMIT LINCOLN DRIVE INTERSECTION (STA. 443+93.05 TO STA. 446+19.42)</b>												
LT	446+19.42	TO	447+84.45	165	36		20	660	56	297		
RT	446+19.42	TO	447+84.45	165	36			660	56	297		
LT	447+84.45	TO	448+65.49	81	24			216	19	97		
RT	447+84.45	TO	448+65.49	81	36			324	28	146		
LT	448+65.49	TO	456+10.23	745	24			1,986	168	894		
RT	448+65.49	TO	455+34.78	669	36		17	2,677	226	1,205		
<b>MAINLINE TOTALS</b>								<b>115</b>	<b>53,477</b>	<b>4,524</b>	<b>24,446</b>	<b>729</b>

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PLOT DATE = 6/4/2019	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**US 51 MAINLINE RESURFACING SCHEDULE**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
322	(9-1,9)RS-7	JACKSON	43	20
CONTRACT NO. 78673				
ILLINOIS FED. AID PROJECT				

# PAVEMENT MARKING SCHEDULE

US 51 (JACKSON COUNTY) LOCATION STATION TO STATION			MODIFIED URETHANE PAVEMENT MARKING											WATER BLAST PAVT MRK REM	SHORT TERM PAVT REM	RAISED REF MKR WHITE	RAISED REF MKR YELLOW	RAISED REF MKR REMOVA	
			SOLID WHITE 4"	LINE - YELLOW 4"				CENTER DASHED WHITE 4"	SOLID WHITE 24"	SOLID WHITE 6"	SOLID DASHED WHITE 6"	SOLID WHITE DIAG. 8"	SOLID WHITE DIAG. 12"						LETTERS AND SYMBOL SQ FT
				LEFT SOLID FT	CENTER DIAG. FT	CENTER DASHED FT	RIGHT SOLID FT												
STA	TO	STA	FT	FT	FT	FT	FT	FT	FT	FT	FT	FT	SQ FT	SQ FT	SQ FT	EACH	EACH	EACH	
STA 369+87.63	TO STA	370+73.49	343	343			343	172	47				36	129	9	5	2	8	
STA 370+73.49	TO STA	371+39.40	264	429			429		72	226		205	240	186	205	21	5	4	9
STA 371+39.40	TO STA	372+36.28	388	775			775	97	35				52		10	9	2	12	
STA 372+36.28	TO STA	377+72.97	2,147	990	23		990	268	120	247	141		311		54	25	13	39	
STA 377+72.97	TO STA	388+77.95	4,420	1,226	6	49	1,226	601					197		110	28	28	56	
STA 388+77.95	TO STA	390+58.40	722	243	3	9	243	99					9	133	18	5	5	10	
STA 390+58.40	TO STA	395+66.93	2,034	3,402	10		5,298	3,030	215	550		410	480	180		51	35	27	62
STA 395+66.93	TO STA	400+26.25	1,837	919	23		919	230								46	11	11	23
STA 400+26.25	TO STA	413+38.58	5,249	2,372	53		2,372	656	12	197	177		36		131	38	33	71	
STA 413+38.58	TO STA	423+22.83	3,937	1,637	49		1,637	492	66	197	177		238		98	39	25	64	
STA 423+22.83	TO STA	429+79.00	2,625	1,312	33		1,312	328							66	16	16	33	
STA 429+79.00	TO STA	432+92.91	1,256	612	16		612	157		100	142		36		31	21	8	29	
<b>STA. EQ. 432+92.91 (BACK) = STA. 432+93.15 (AHEAD)</b>																			
STA 432+93.15	TO STA	443+93.05	4,400	2,085	49		2,085	550		60	71		36	934	110	56	27	84	
STA 443+93.05	TO STA	446+19.42	905	1,459	25		1,459	155	104	560			171		23	9	10	19	
STA 446+19.42	TO STA	451+11.55	1,969	843	12		843	246		232			214		49	25	12	37	
STA 451+11.55	TO STA	456+10.23	1,995	997	15		846	249		320			73		50	20	12	33	
<b>TOTALS</b>			<b>34,490</b>	<b>19,645</b>	<b>317</b>	<b>58</b>	<b>21,390</b>	<b>7,331</b>	<b>671</b>	<b>2,689</b>	<b>708</b>	<b>615</b>	<b>720</b>	<b>1,777</b>	<b>1,401</b>	<b>838</b>	<b>347</b>	<b>237</b>	<b>589</b>
			<b>83,230</b>												<b>583</b>				

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PLOT SCALE = 100,0000' / in. PLOT DATE = 6/4/2019		SCALE: SHEET OF SHEETS STA. TO STA.			ILLINOIS FED. AID PROJECT CONTRACT NO. 78673

# TEMPORARY PAVEMENT MARKING SCHEDULE

US 51 (JACKSON COUNTY)			TEMPORARY PAVEMENT MARKING					CENTER DASHED WHITE 4"	SOLID WHITE 24"	SOLID WHITE 6"	SOLID DASHED WHITE 6"	SOLID WHITE DIAG. 8"	SOLID WHITE DIAG. 12"	SHORT TERM PVMT MRK	TEMP PVMT MRK 4"	TEMP LETTERS & SYMBOLS SQ FT	TEMP PVMT MRK REM SQ FT	SHORT TERM PAVT MK REM SQ FT	
			SOLID WHITE 4" FT	LINE - YELLOW 4"			RIGHT SOLID FT												
LOCATION STATION TO STATION	STATION TO STATION	STATION TO STATION	FT	LEFT SOLID FT	CENTER DIAG. FT	CENTER DASHED FT	RIGHT SOLID FT	FT	FT	FT	FT	FT	FT	FT	FT	FT	FT	FT	
STA 369+87.63 TO STA 370+73.49	343	343		343			172	47					26	1,202	36	240	9		
STA 370+73.49 TO STA 371+39.40	264	429		429				72	226		205	240	20	1,123	186	225	7		
STA 371+39.40 TO STA 372+36.28	388	775		775			97	35					29	2,034	52	407	10		
STA 372+36.28 TO STA 377+72.95	2,147	990	23	990			268	120	247	141			150	4,417	311	883	54		
STA 377+72.97 TO STA 388+77.95	4,420	1,226	6	49	1,226		601						331	7,528	197	1,506	110		
STA 388+77.95 TO STA 390+58.40	722	243	3	9	243		99						54	1,320	9	264	18		
STA 390+58.40 TO STA 395+66.93	2,034	3,402	10	5,298			3,030	215	550		410	480	153	13,773	180	2,755	51		
STA 395+66.93 TO STA 400+26.25	1,837	919	23	919			230						138	3,927		785	46		
STA 400+26.25 TO STA 413+38.58	5,249	2,372	53	2,372			656	12	197	177			394	10,703	36	2,141	131		
STA 413+38.58 TO STA 423+22.83	3,937	1,637	49	1,637			492	66	197	177			295	7,752	238	1,550	98		
STA 423+22.83 TO STA 429+79.00	2,625	1,312	33	1,312			328						197	5,610		1,122	66		
STA 429+79.00 TO STA 432+92.91	1,256	612	16	612			157		100	142			94	2,653	36	531	31		
<b>STA. EQ. 432+92.91 (BACK) = STA. 432+93.15 (AHEAD)</b>																			
STA 432+93.15 TO STA 443+93.05	4,400	2,085	49	2,085			550		60	71			330	9,169	36	1,834	110		
STA 443+93.05 TO STA 446+19.42	905	1,459	25	1,459			155	104	560				68	4,003	171	801	23		
STA 446+19.42 TO STA 451+11.55	1,969	843	12	843			246		232				148	3,912	214	782	49		
STA 451+11.55 TO STA 456+10.23	1,995	997	15	846			249		320				150	4,103	73	821	50		
<b>TOTALS</b>			<b>34,490</b>	<b>19,645</b>	<b>317</b>	<b>58</b>	<b>21,390</b>	<b>7,331</b>	<b>671</b>	<b>2,689</b>	<b>708</b>	<b>615</b>	<b>720</b>	<b>2,576</b>	<b>83,230</b>	<b>1,777</b>	<b>33,292</b>	<b>863</b>	
								<b>83,230</b>											
												<b>3,397</b>							

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PLOT DATE = 6/4/2019	CHECKED -	REVISED -
	DATE -	REVISED -

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

<b>PAVEMENT MARKING SCHEDULE-CONT'D</b>			
SCALE:	SHEET	OF	SHEETS
	STA.	TO	STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
322	(9-1,9)RS-7	JACKSON	43	22
CONTRACT NO. 78673				
ILLINOIS FED. AID PROJECT				

# FAP 322 (US 51) PATCHING SCHEDULE

LOCATION / MILE POST	FAP 322 (US 51)								
	SB		NB		TURN LANE/ MEDIAN	TOTAL AREA			
	DRIVING LANE	PASSING LANE	DRIVING LANE	PASSING LANE		(SQ. YD.)			
					TYPE I	TYPE II	TYPE III	TYPE IV	
GRAND AVE.	6x12	6x18 8x12	12x12	12x12	12x12	11			52
0.1									
0.2	5x12	5x12	5x12	5x12	5x12		33		
0.9									
1.0			6x12 12x12	6x12 12x12			16		32
1.1			8x12 6x12	8x12 6x12			21 16		
1.2			6x12 6x12 8x12	6x12 6x12 8x12	6x12 8x12		24 27 21		
1.3			8x12	8x12	8x12		32		
1.4			6x12 6x12	6x12 6x12	6x12 6x12		24 24		
1.5				5x12		7			
OLD US 51									
<b>TOTAL</b>						<b>18</b>	<b>238</b>	<b>32</b>	<b>52</b>

\* FOR INFORMATION ONLY; PATCHING LOCATIONS WILL BE DETERMINED BY THE RESIDENT ENGINEER

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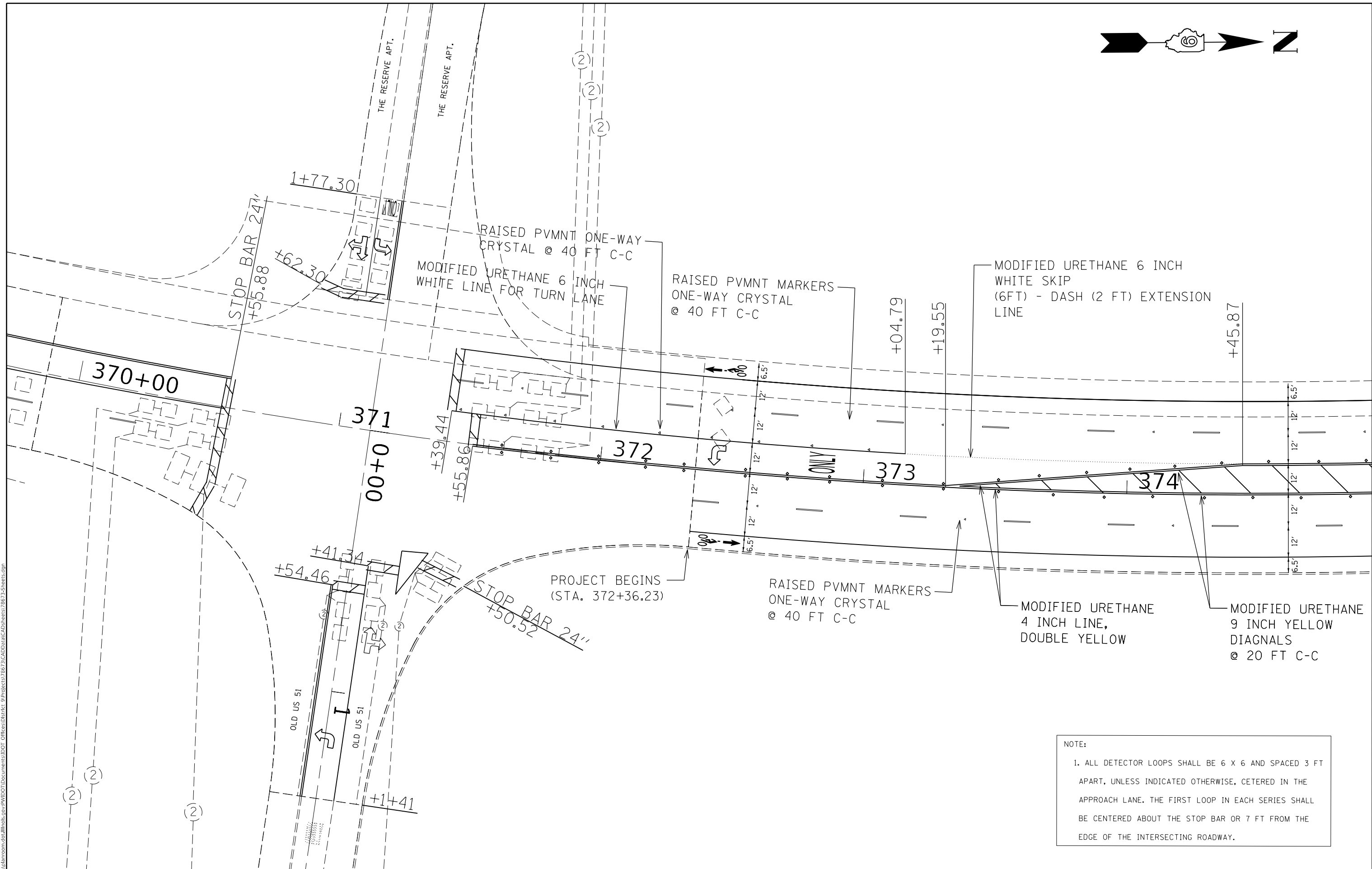
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PLOT DATE = 6/4/2019	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**PATCHING SCHEDULE**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE. 322	SECTION (9-1,9)RS-7	COUNTY JACKSON	TOTAL SHEETS 43	SHEET NO. 23
CONTRACT NO. 78673			ILLINOIS FED. AID PROJECT	



NOTE:  
 1. ALL DETECTOR LOOPS SHALL BE 6 X 6 AND SPACED 3 FT APART, UNLESS INDICATED OTHERWISE, CENTERED IN THE APPROACH LANE. THE FIRST LOOP IN EACH SERIES SHALL BE CENTERED ABOUT THE STOP BAR OR 7 FT FROM THE EDGE OF THE INTERSECTING ROADWAY.

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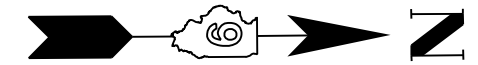
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**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

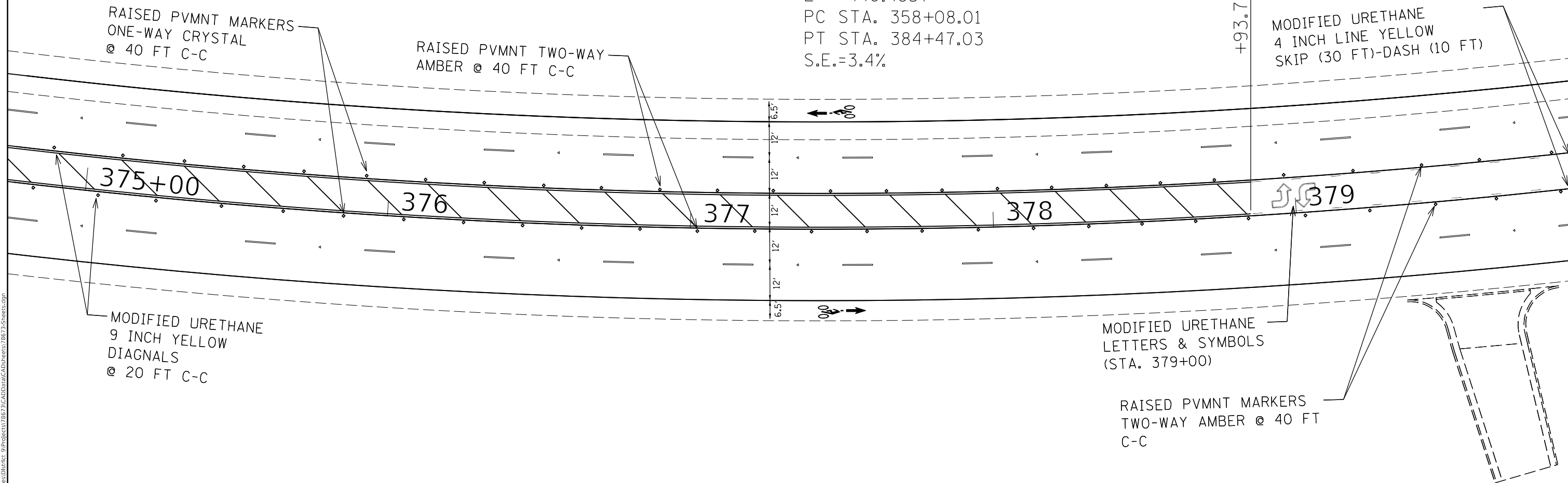
<b>DESIGN DETAILS FOR US 51 (FAP 322)</b>			
SCALE:	SHEET	OF	SHEETS
	STA.		TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
322	(9-1,9)RS-7	JACKSON	43	24
CONTRACT NO. 78673				
ILLINOIS FED. AID PROJECT				





PI STA. 372+95.64  
 $\Delta = 65^\circ 58' 31.9953''$  (LT)  
 R= 2291.8310  
 T= 1487.6375  
 L= 2639.0220  
 E= 440.4857  
 PC STA. 358+08.01  
 PT STA. 384+47.03  
 S.E.=3.4%



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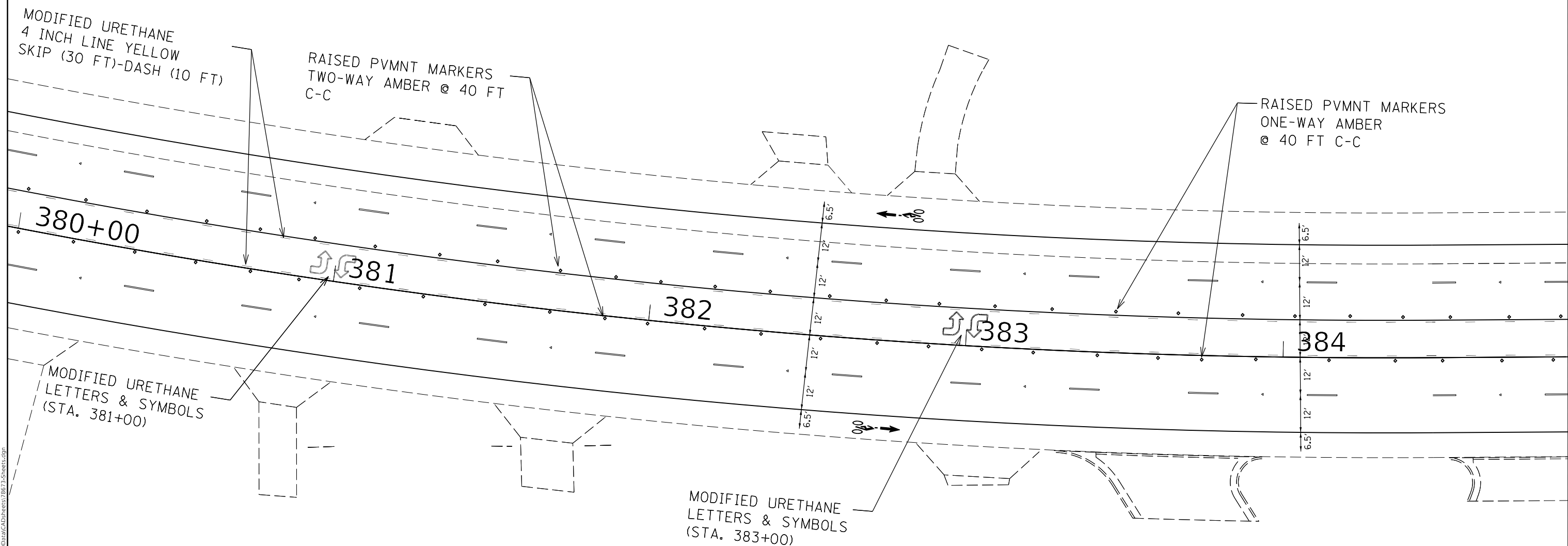
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	DATE -	REVISED -

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

**DESIGN DETAILS FOR US 51 (FAP 322)**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
322	(9-1,9)RS-7	JACKSON	43	25
CONTRACT NO. 78673				
ILLINOIS FED. AID PROJECT				



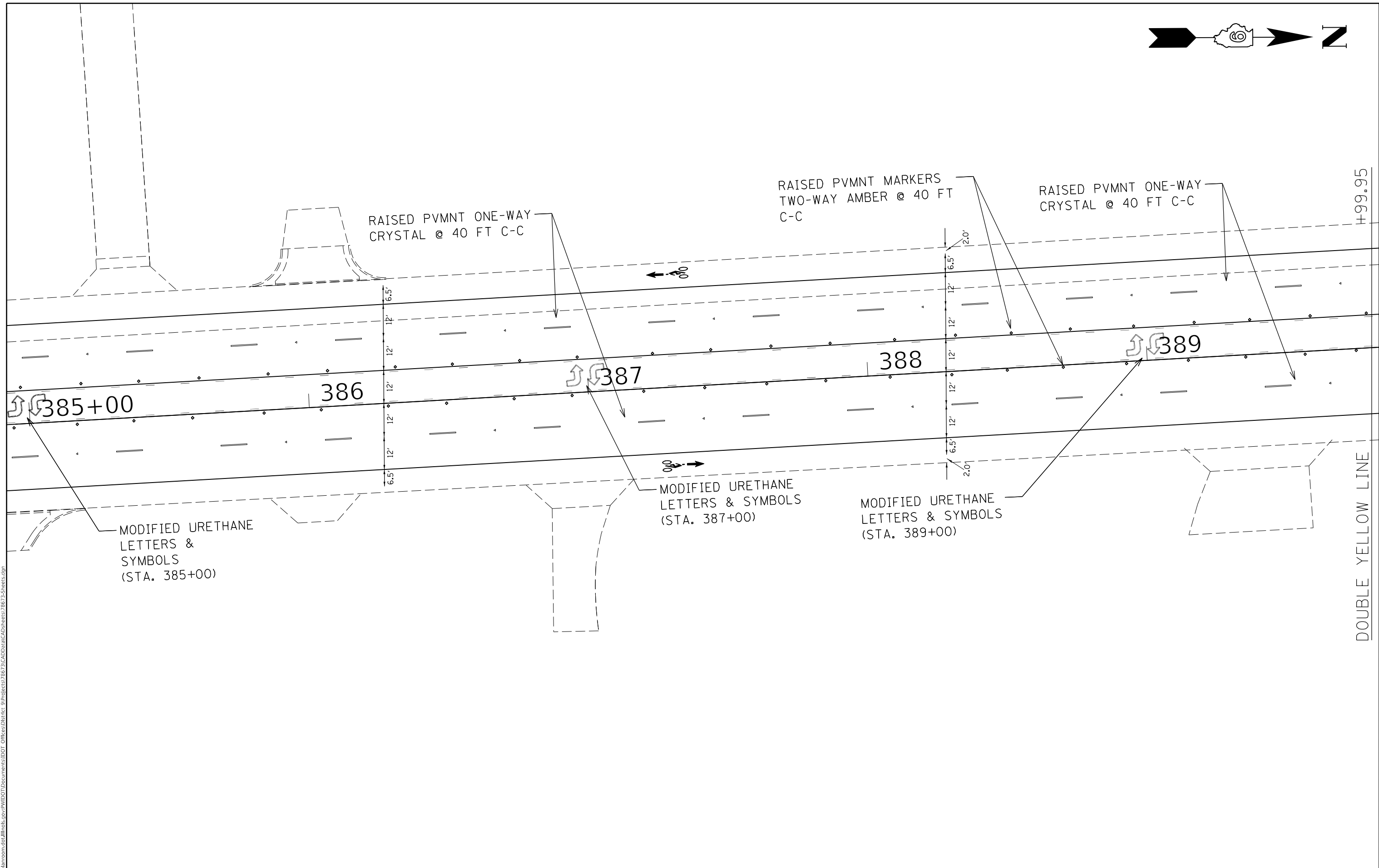
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PLOT DATE = 6/4/2019	CHECKED -	REVISED -
	DATE -	REVISED -

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

<b>DESIGN DETAILS FOR US 51 (FAP 322)</b>			
SCALE:	SHEET	OF	SHEETS
	STA.	TO	STA.

F.A.P. RTE. 322	SECTION (9-1,9)RS-7	COUNTY JACKSON	TOTAL SHEETS 43	SHEET NO. 26
CONTRACT NO. 78673				
ILLINOIS FED. AID PROJECT				



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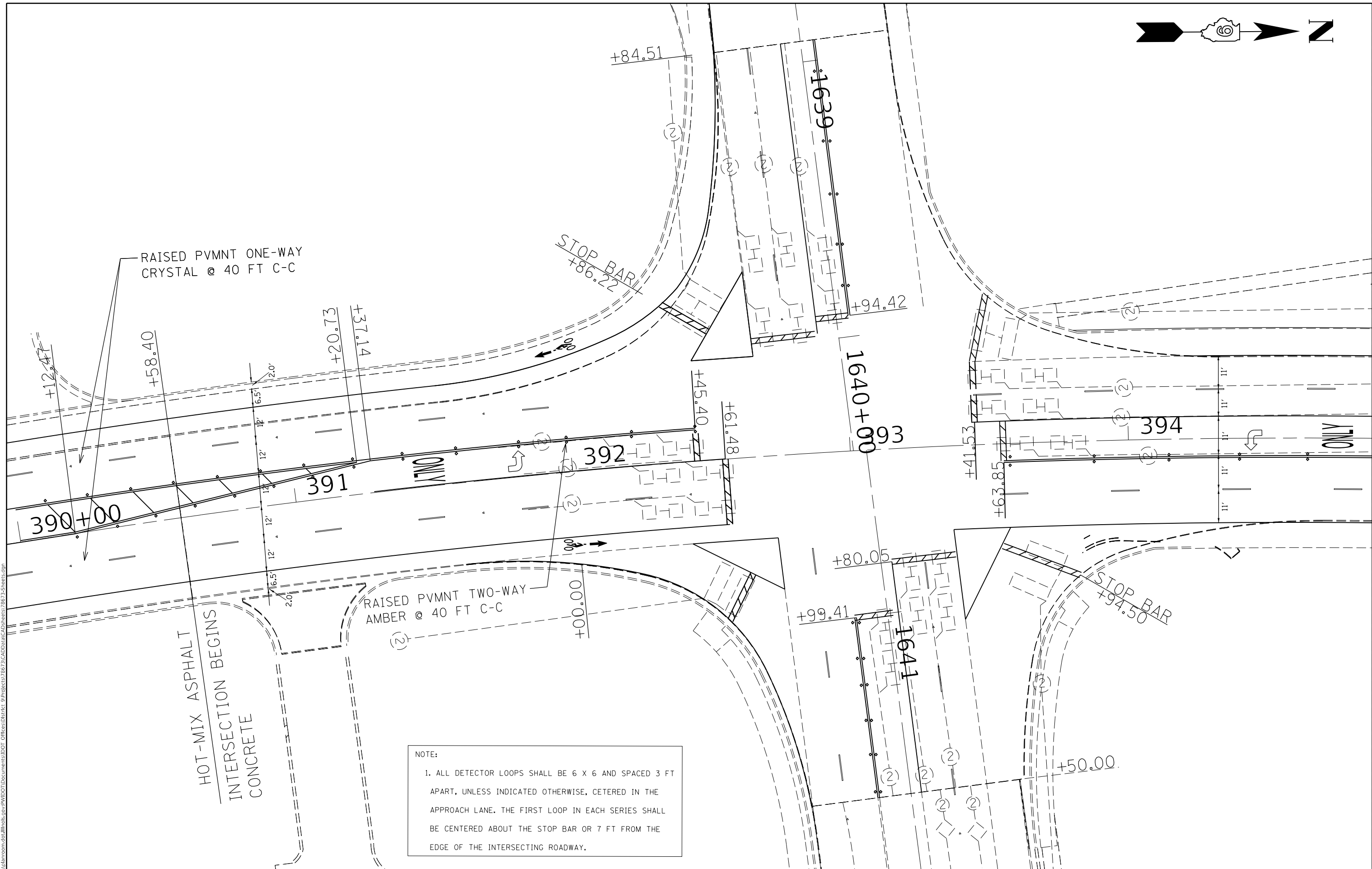
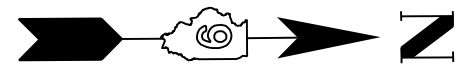
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

<b>DESIGN DETAILS FOR US 51 (FAP 322)</b>			
SCALE:	SHEET	OF	SHEETS
	STA.	TO	STA.

F.A.P. RTE. 322	SECTION (9-1,9)RS-7	COUNTY JACKSON	TOTAL SHEETS 43	SHEET NO. 27
ILLINOIS FED. AID PROJECT				

DOUBLE YELLOW LINE

H+99.95



NOTE:  
 1. ALL DETECTOR LOOPS SHALL BE 6 X 6 AND SPACED 3 FT APART, UNLESS INDICATED OTHERWISE, CETERED IN THE APPROACH LANE. THE FIRST LOOP IN EACH SERIES SHALL BE CENTERED ABOUT THE STOP BAR OR 7 FT FROM THE EDGE OF THE INTERSECTING ROADWAY.

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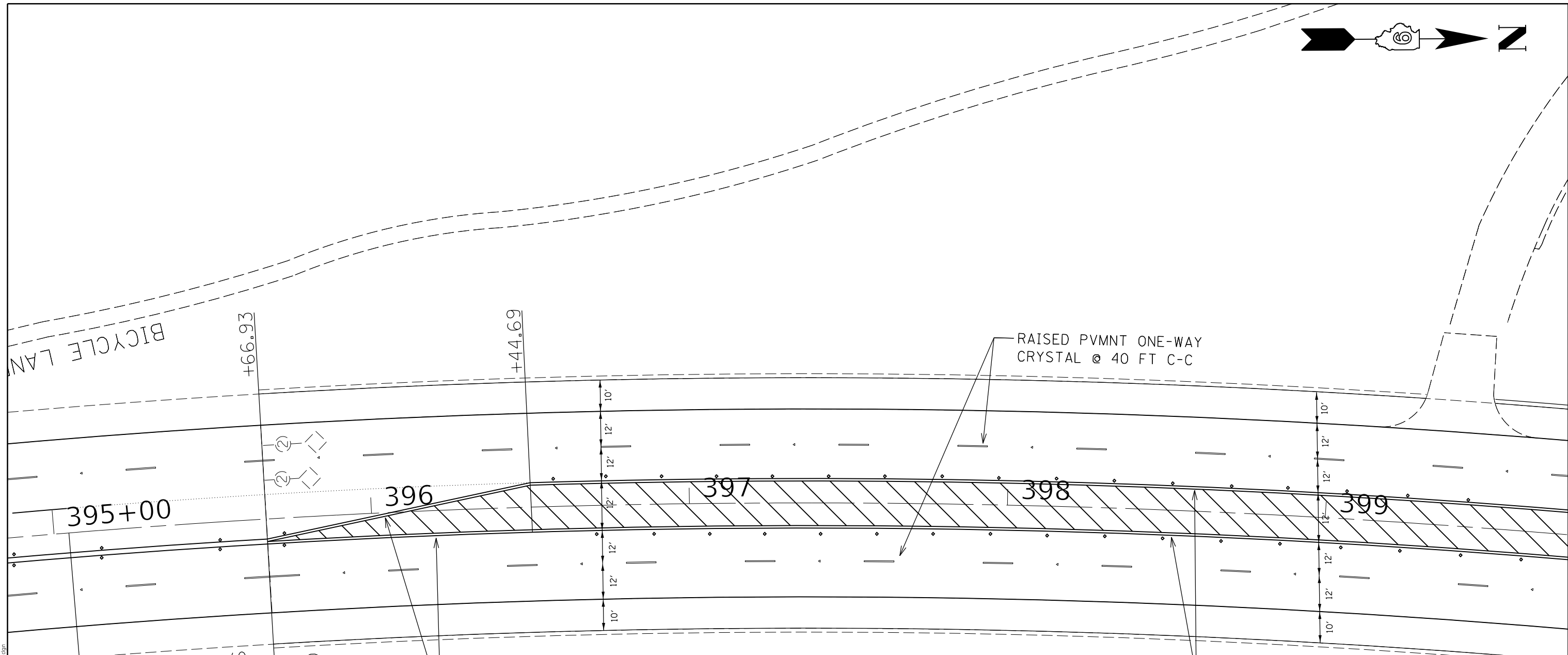
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	DATE -	REVISED -

DESIGNED -	REVISED -
DRAWN -	REVISED -
CHECKED -	REVISED -
DATE -	REVISED -

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

SCALE:		SHEET	OF	SHEETS	STA.	TO	STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
322	(9-1,9)RS-7	JACKSON	43	28
CONTRACT NO. 78673				
ILLINOIS FED. AID PROJECT				



MODIFIED URETHANE  
9 INCH YELLOW  
DIAGNALS  
@ 20 FT C-C

PI STA. 396+95.64  
 $\Delta = 26^{\circ}06'32.2568''$  (RT)  
 R= 2863.3899  
 T= 663.9341  
 L= 1304.8105  
 E= 75.9655  
 PC STA. 390+12.39  
 PT STA. 403+17.20

MODIFIED URETHANE  
4 INCH LINE  
DOUBLE YELLOW

INTERSECTION ENDS  
CONCRETE  
HOT-MIX ASPHALT  
(CONTINUE PROJECT)

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	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**DESIGN DETAILS FOR US 51 (FAP 322)**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
322	(9-1,9)RS-7	JACKSON	43	29
CONTRACT NO. 78673				
ILLINOIS FED. AID PROJECT				



RAISED PVMNT ONE-WAY  
CRYSTAL @ 40 FT C-C

RAISED PVMNT MARKERS  
TWO-WAY AMBER @ 40 FT  
C-C

MODIFIED URETHANE  
4 INCH LINE  
DOUBLE YELLOW

MODIFIED URETHANE  
9 INCH YELLOW  
DIAGNALS  
@ 20 FT C-C

400+00

401

402

403

404

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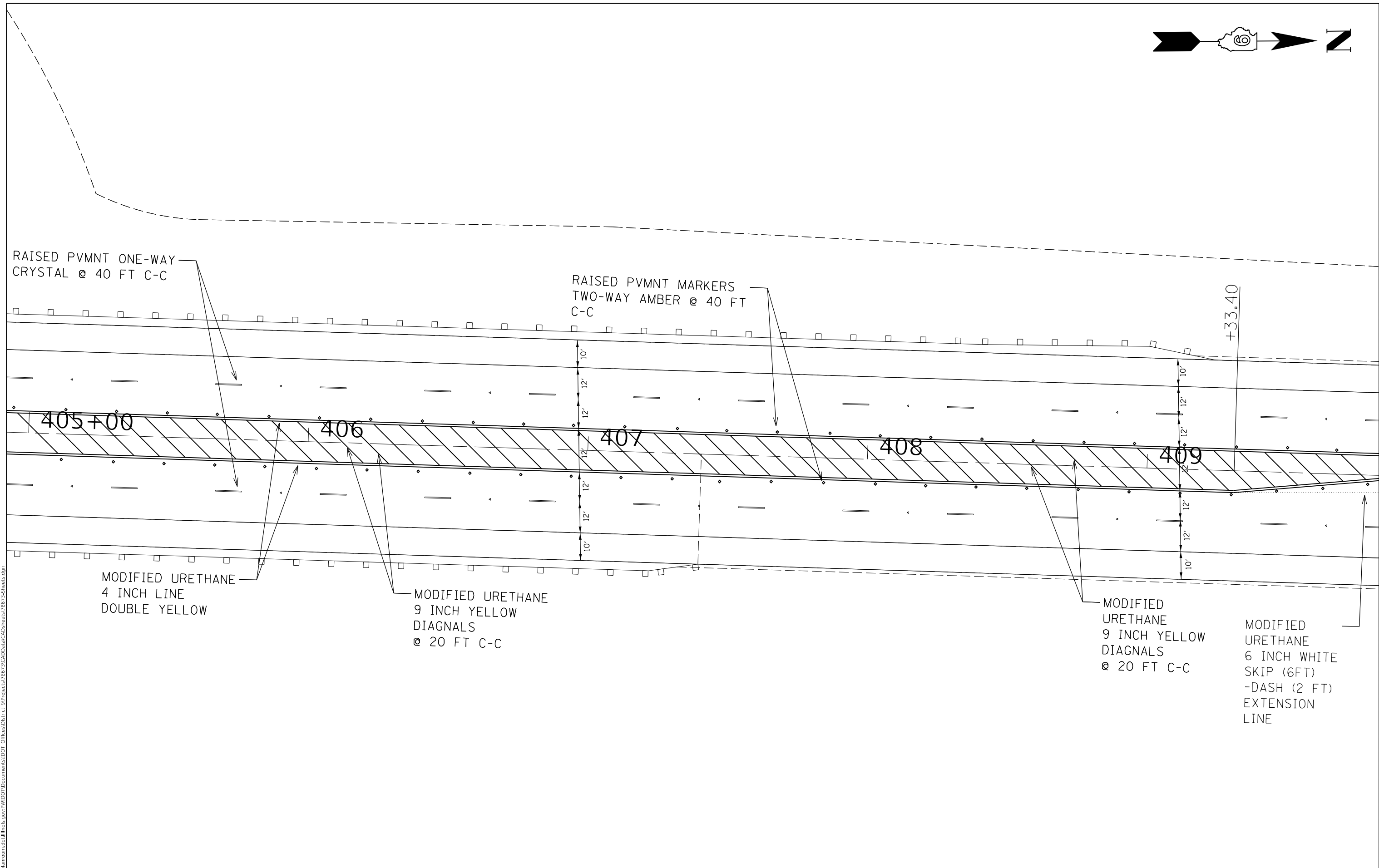
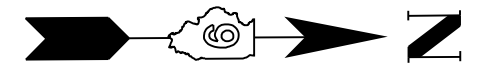
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PLOT DATE = 6/4/2019	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**DESIGN DETAILS FOR US 51 (FAP 322)**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE. 322	SECTION (9-1,9)RS-7	COUNTY JACKSON	TOTAL SHEETS 43	SHEET NO. 30
CONTRACT NO. 78673				
		ILLINOIS FED. AID PROJECT		



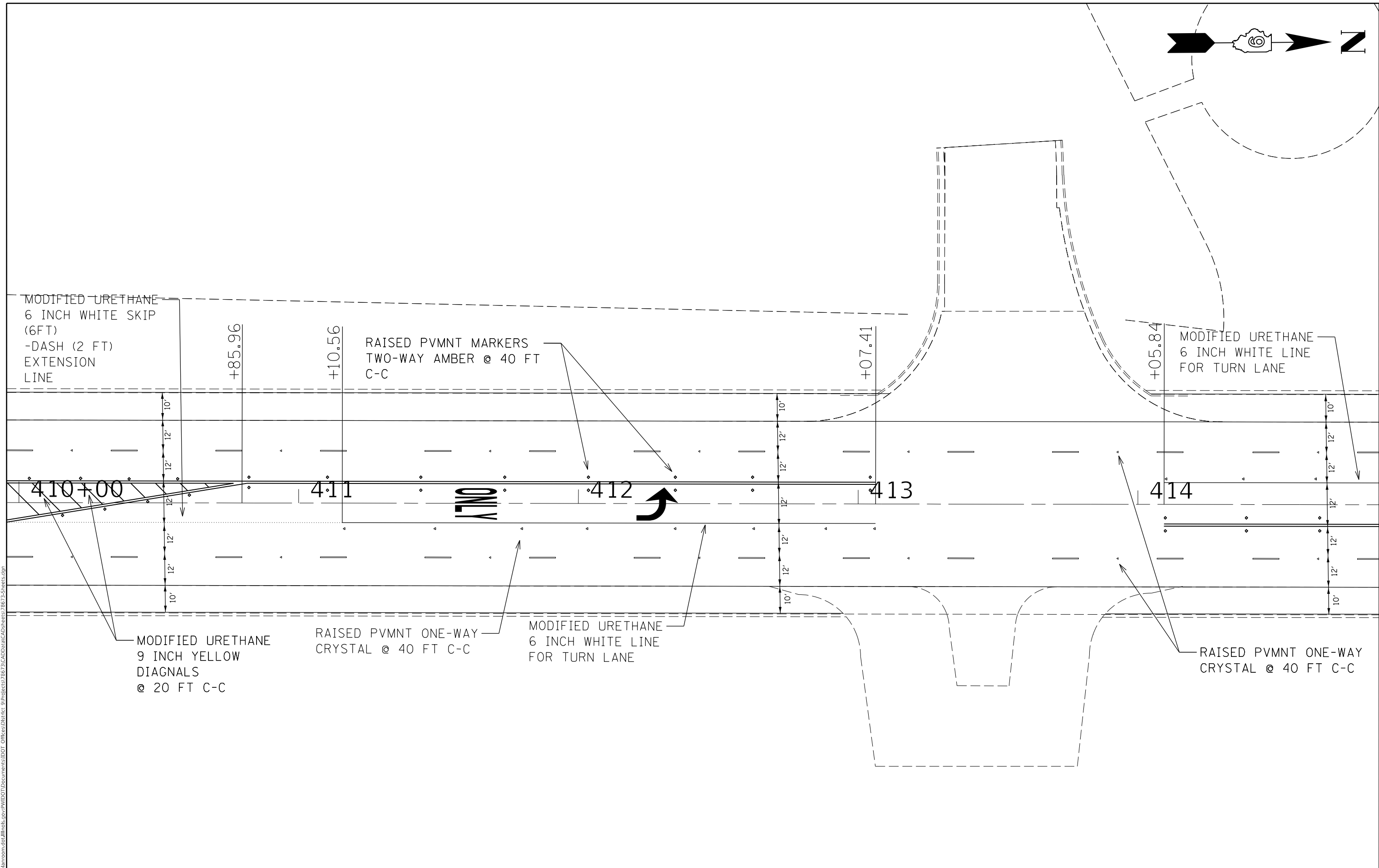
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PLOT DATE = 6/4/2019	CHECKED -	REVISED -
	DATE -	REVISED -

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

<b>DESIGN DETAILS FOR US 51 (FAP 322)</b>			
SCALE:	SHEET	OF	SHEETS
	STA.	TO	STA.

F.A.P. RTE. 322	SECTION (9-1,9)RS-7	COUNTY JACKSON	TOTAL SHEETS 43	SHEET NO. 31
CONTRACT NO. 78673				
ILLINOIS FED. AID PROJECT				



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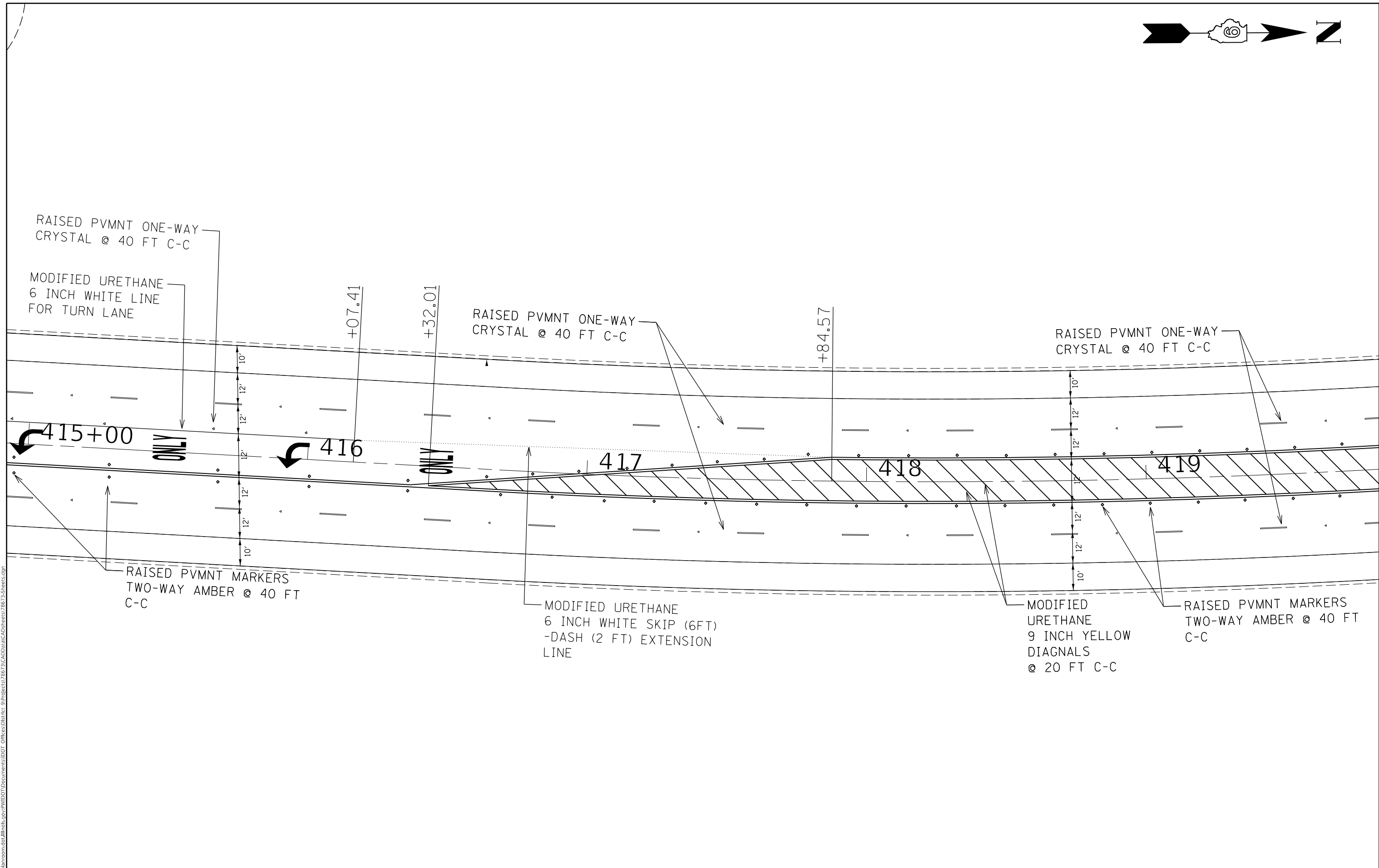
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	DATE -	REVISED -

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

<b>DESIGN DETAILS FOR US 51 (FAP 322)</b>			
SCALE:	SHEET	OF	SHEETS
	STA.	TO	STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
322	(9-1,9)RS-7	JACKSON	43	32
CONTRACT NO. 78673				
ILLINOIS FED. AID PROJECT				





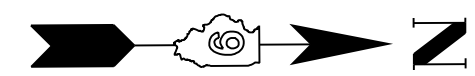
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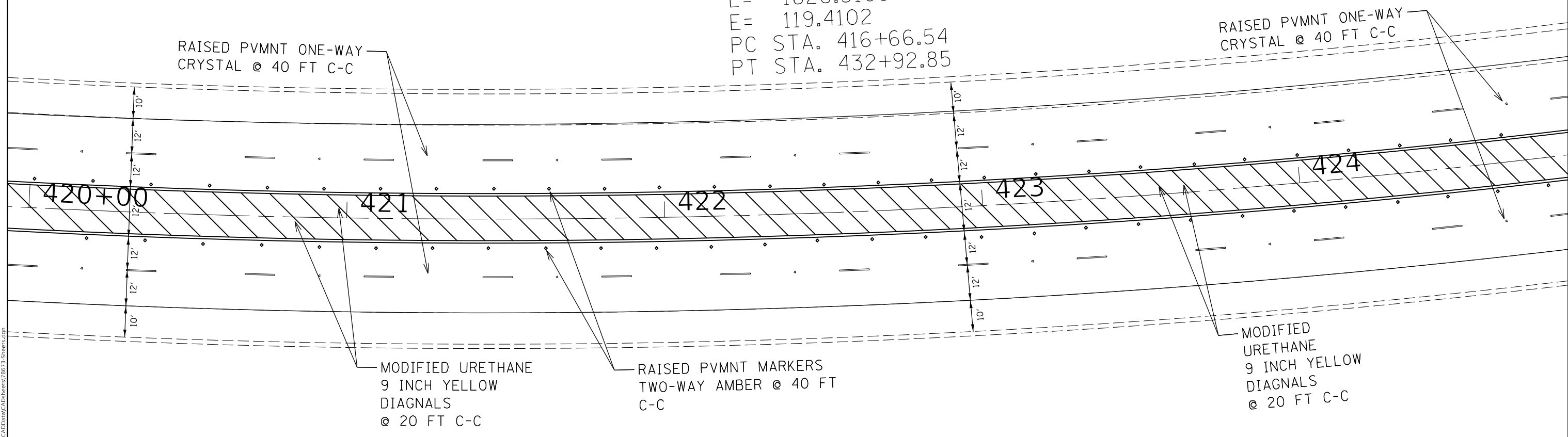
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

<b>DESIGN DETAILS FOR US 51 (FAP 322)</b>			
SCALE:	SHEET	OF	SHEETS
	STA.	TO	STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
322	(9-1,9)RS-7	JACKSON	43	33
CONTRACT NO. 78673				
ILLINOIS FED. AID PROJECT				



PI STA. 425+02.26  
 $\Delta = 32^\circ 31' 34.3034''$  (LT)  
 R= 2864.7909  
 T= 835.7210  
 L= 1626.3108  
 E= 119.4102  
 PC STA. 416+66.54  
 PT STA. 432+92.85



RAISED PVMNT ONE-WAY  
CRYSTAL @ 40 FT C-C

RAISED PVMNT ONE-WAY  
CRYSTAL @ 40 FT C-C

MODIFIED URETHANE  
9 INCH YELLOW  
DIAGNALS  
@ 20 FT C-C

RAISED PVMNT MARKERS  
TWO-WAY AMBER @ 40 FT  
C-C

MODIFIED  
URETHANE  
9 INCH YELLOW  
DIAGNALS  
@ 20 FT C-C

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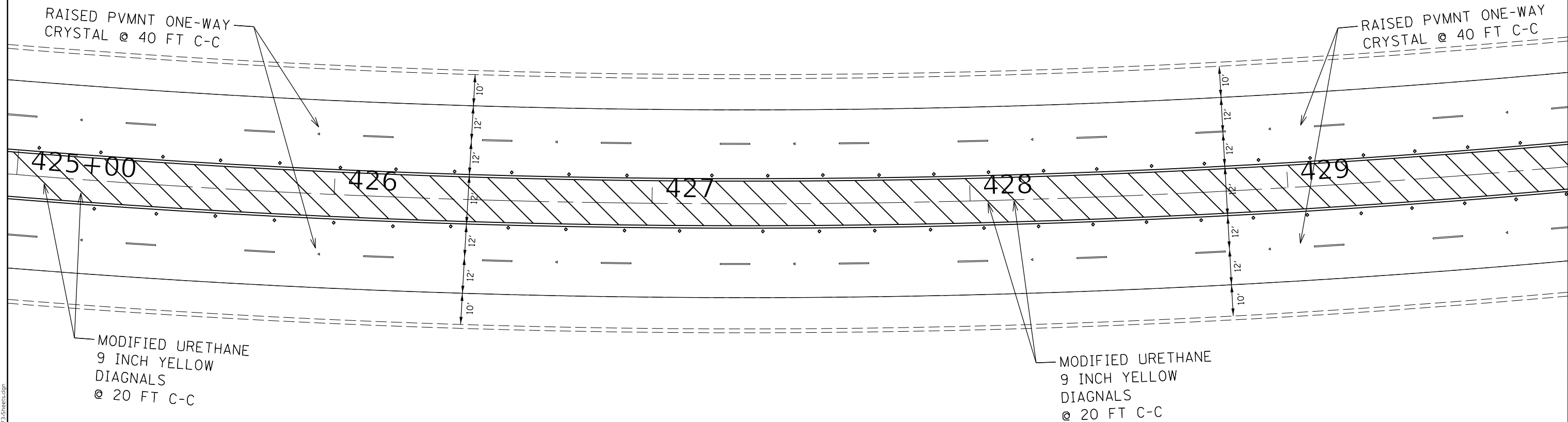
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PLOT DATE = 6/4/2019	DATE -	REVISED -

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

<b>DESIGN DETAILS FOR US 51 (FAP 322)</b>			
SCALE:	SHEET	OF	SHEETS
	STA.		TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
322	(9-1,9)RS-7	JACKSON	43	34
ILLINOIS			FED. AID PROJECT	

CONTRACT NO. 78673



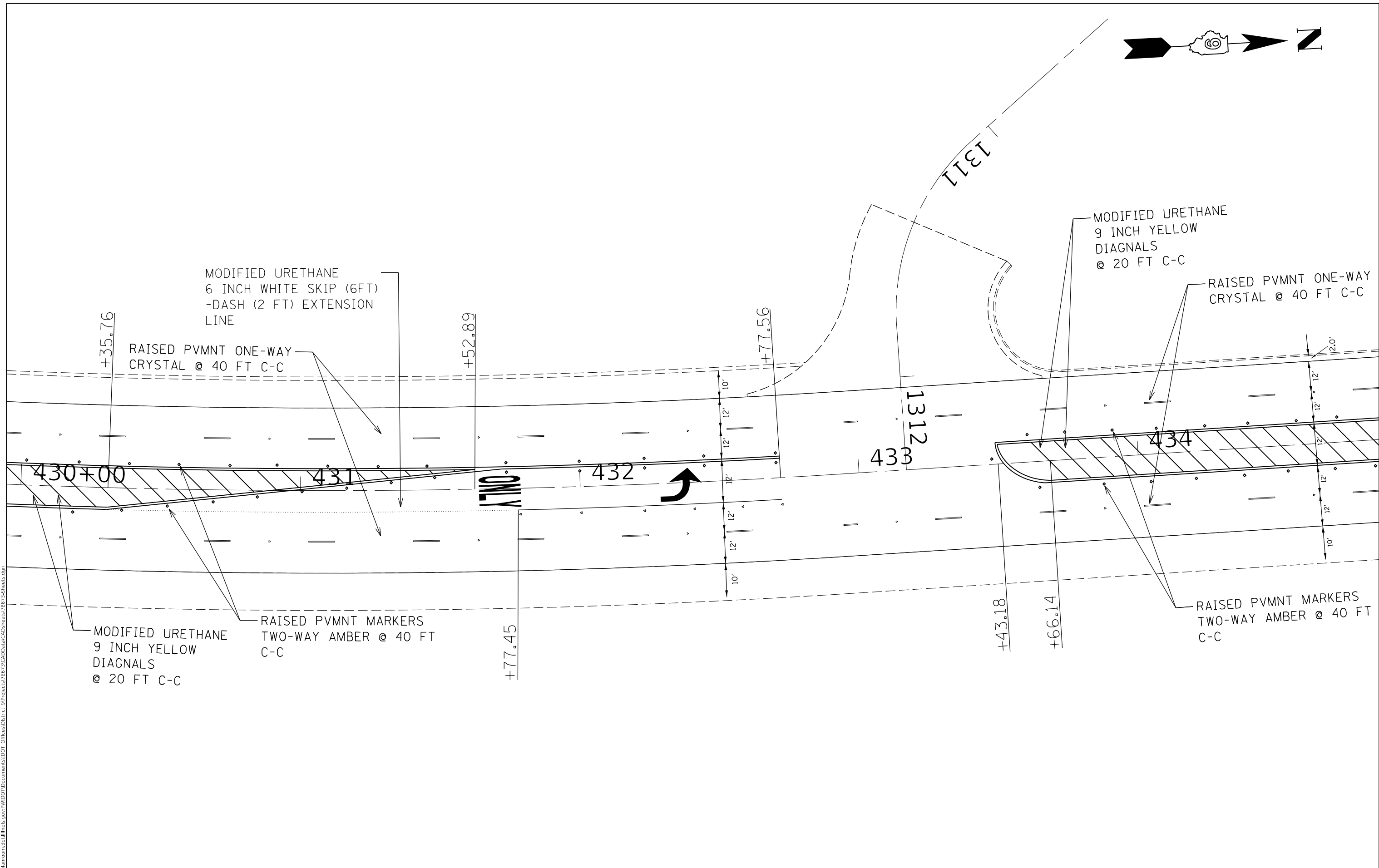
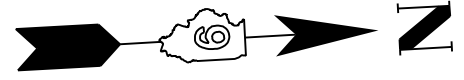
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PLOT DATE = 6/4/2019	DATE -	REVISED -

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

<b>DESIGN DETAILS FOR US 51 (FAP 322)</b>			
SCALE:	SHEET	OF	SHEETS
	STA.	TO	STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
322	(9-1,9)RS-7	JACKSON	43	35
CONTRACT NO. 78673			ILLINOIS FED. AID PROJECT	



MODIFIED URETHANE  
6 INCH WHITE SKIP (6FT)  
-DASH (2 FT) EXTENSION  
LINE

RAISED PVMNT ONE-WAY  
CRYSTAL @ 40 FT C-C

MODIFIED URETHANE  
9 INCH YELLOW  
DIAGNALS  
@ 20 FT C-C

RAISED PVMNT ONE-WAY  
CRYSTAL @ 40 FT C-C

MODIFIED URETHANE  
9 INCH YELLOW  
DIAGNALS  
@ 20 FT C-C

RAISED PVMNT MARKERS  
TWO-WAY AMBER @ 40 FT  
C-C

RAISED PVMNT MARKERS  
TWO-WAY AMBER @ 40 FT  
C-C

ONLY



MODEL: Default  
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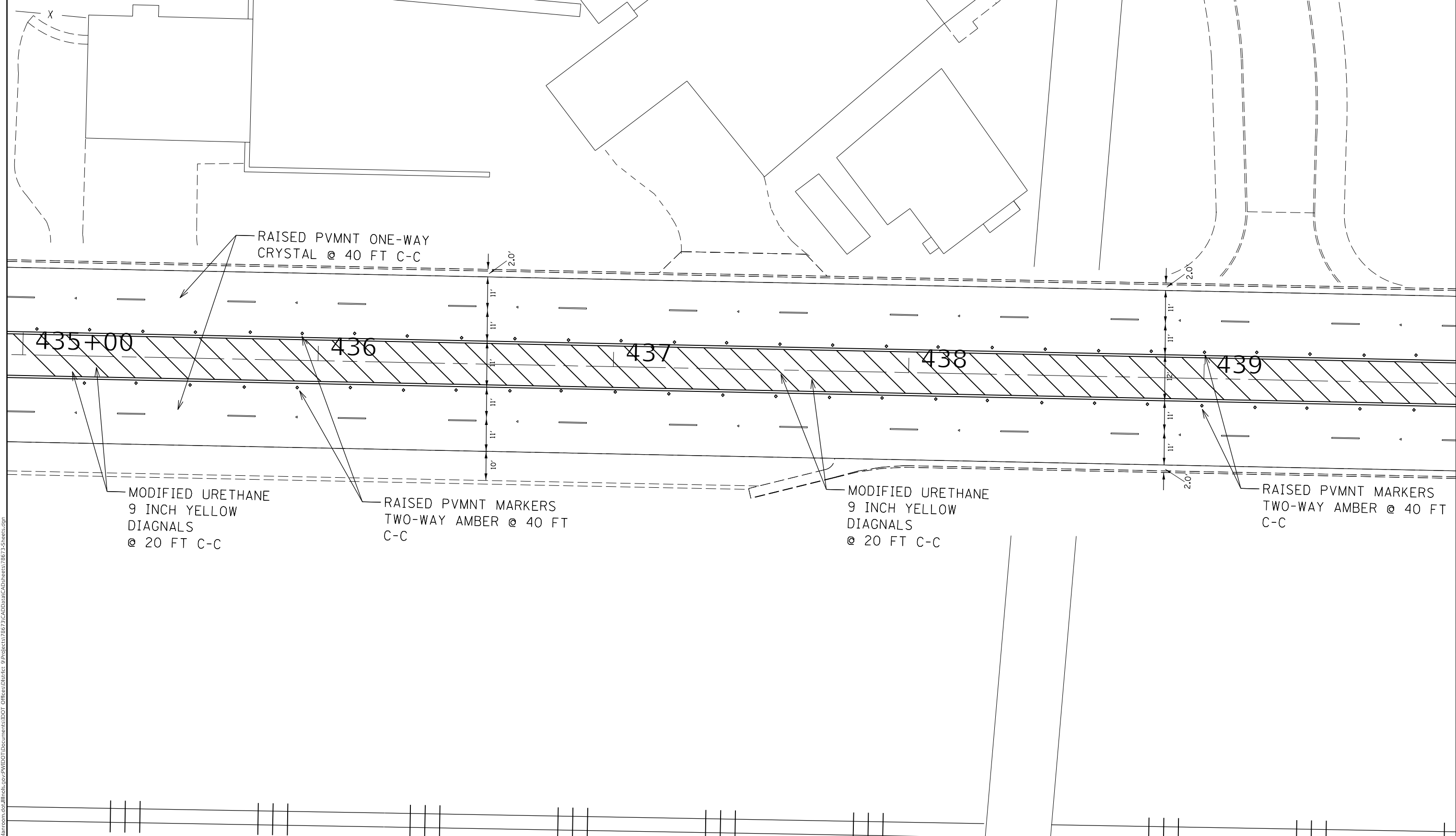
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**DESIGN DETAILS FOR US 51 (FAP 322)**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
322	(9-1,9)RS-7	JACKSON	43	36
CONTRACT NO. 78673				
ILLINOIS FED. AID PROJECT				

CONVEYOR



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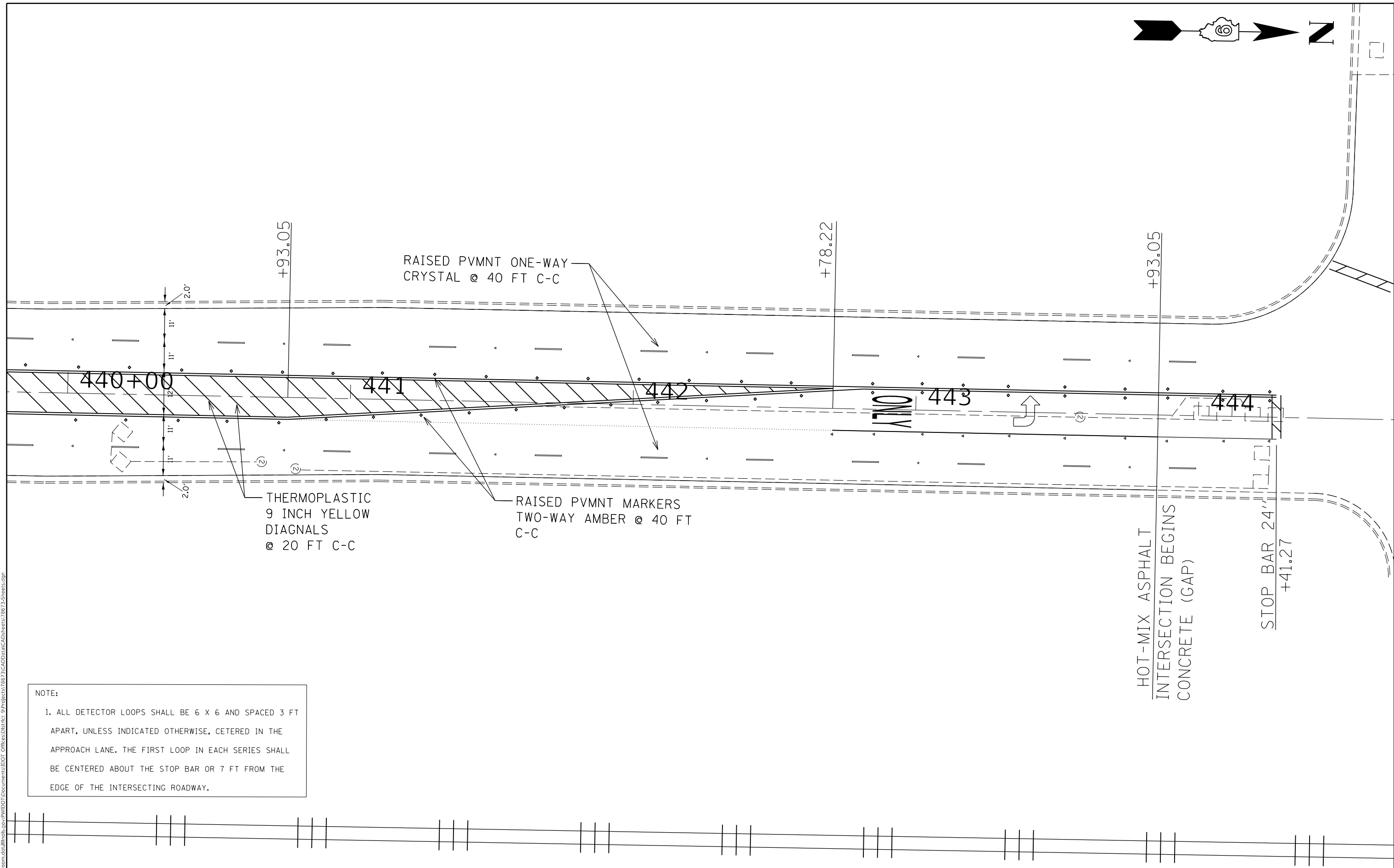
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**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**DESIGN DETAILS FOR US 51 (FAP 322)**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
322	(9-1,9)RS-7	JACKSON	43	37
CONTRACT NO. 78673				
ILLINOIS FED. AID PROJECT				



RAISED PVMNT ONE-WAY  
CRYSTAL @ 40 FT C-C

THERMOPLASTIC  
9 INCH YELLOW  
DIAGNALS  
@ 20 FT C-C

RAISED PVMNT MARKERS  
TWO-WAY AMBER @ 40 FT  
C-C

HOT-MIX ASPHALT  
INTERSECTION BEGINS  
CONCRETE (GAP)

STOP BAR 24"  
+41.27

NOTE:  
1. ALL DETECTOR LOOPS SHALL BE 6 X 6 AND SPACED 3 FT APART, UNLESS INDICATED OTHERWISE, CETERED IN THE APPROACH LANE. THE FIRST LOOP IN EACH SERIES SHALL BE CENTERED ABOUT THE STOP BAR OR 7 FT FROM THE EDGE OF THE INTERSECTING ROADWAY.

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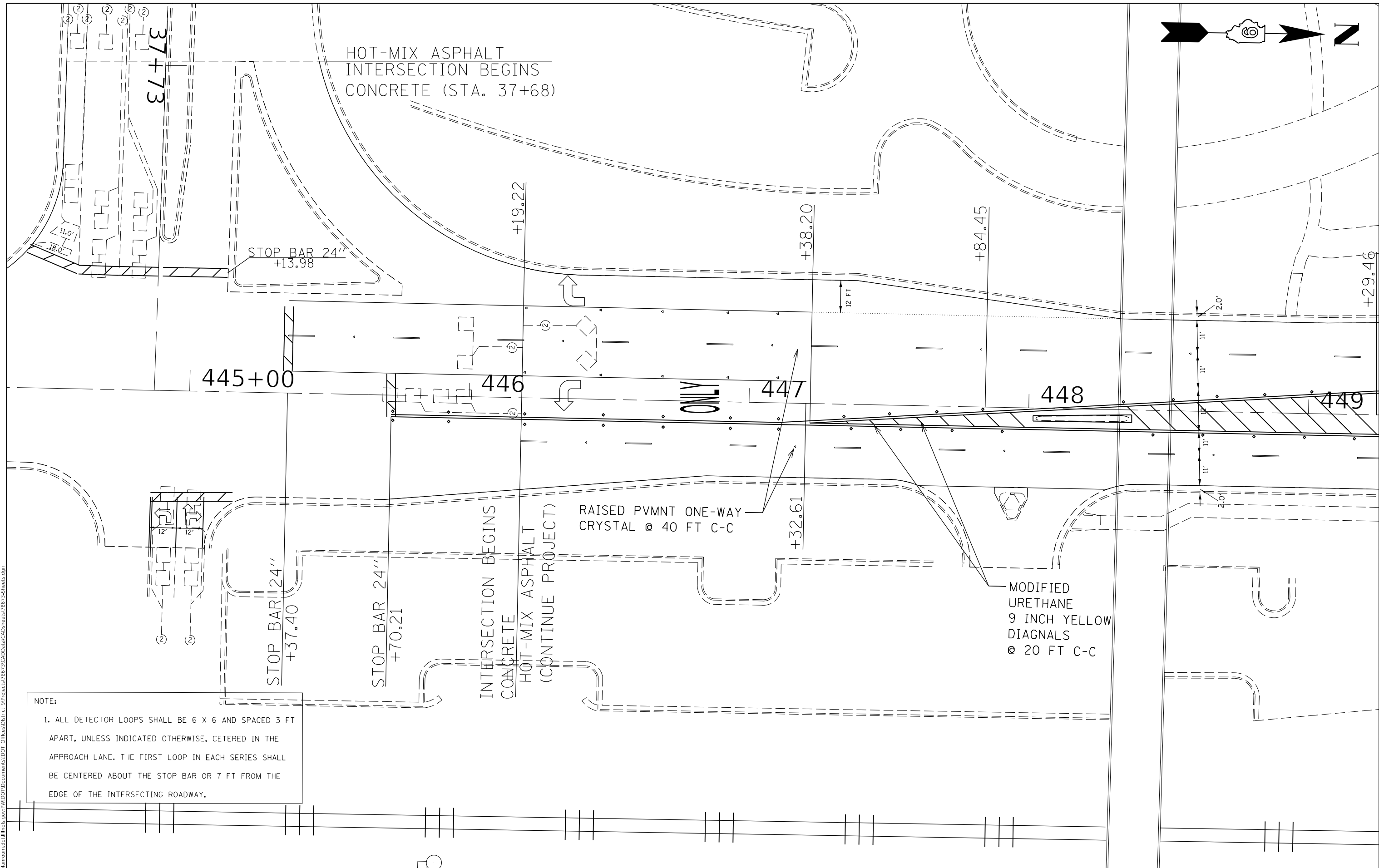
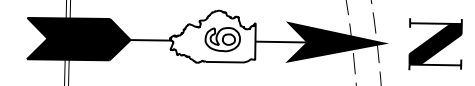
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	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**DESIGN DETAILS FOR US 51 (FAP 322)**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
322	(9-1,9)RS-7	JACKSON	43	38
CONTRACT NO. 78673				
ILLINOIS FED. AID PROJECT				



NOTE:  
 1. ALL DETECTOR LOOPS SHALL BE 6 X 6 AND SPACED 3 FT APART, UNLESS INDICATED OTHERWISE, CETERED IN THE APPROACH LANE. THE FIRST LOOP IN EACH SERIES SHALL BE CENTERED ABOUT THE STOP BAR OR 7 FT FROM THE EDGE OF THE INTERSECTING ROADWAY.

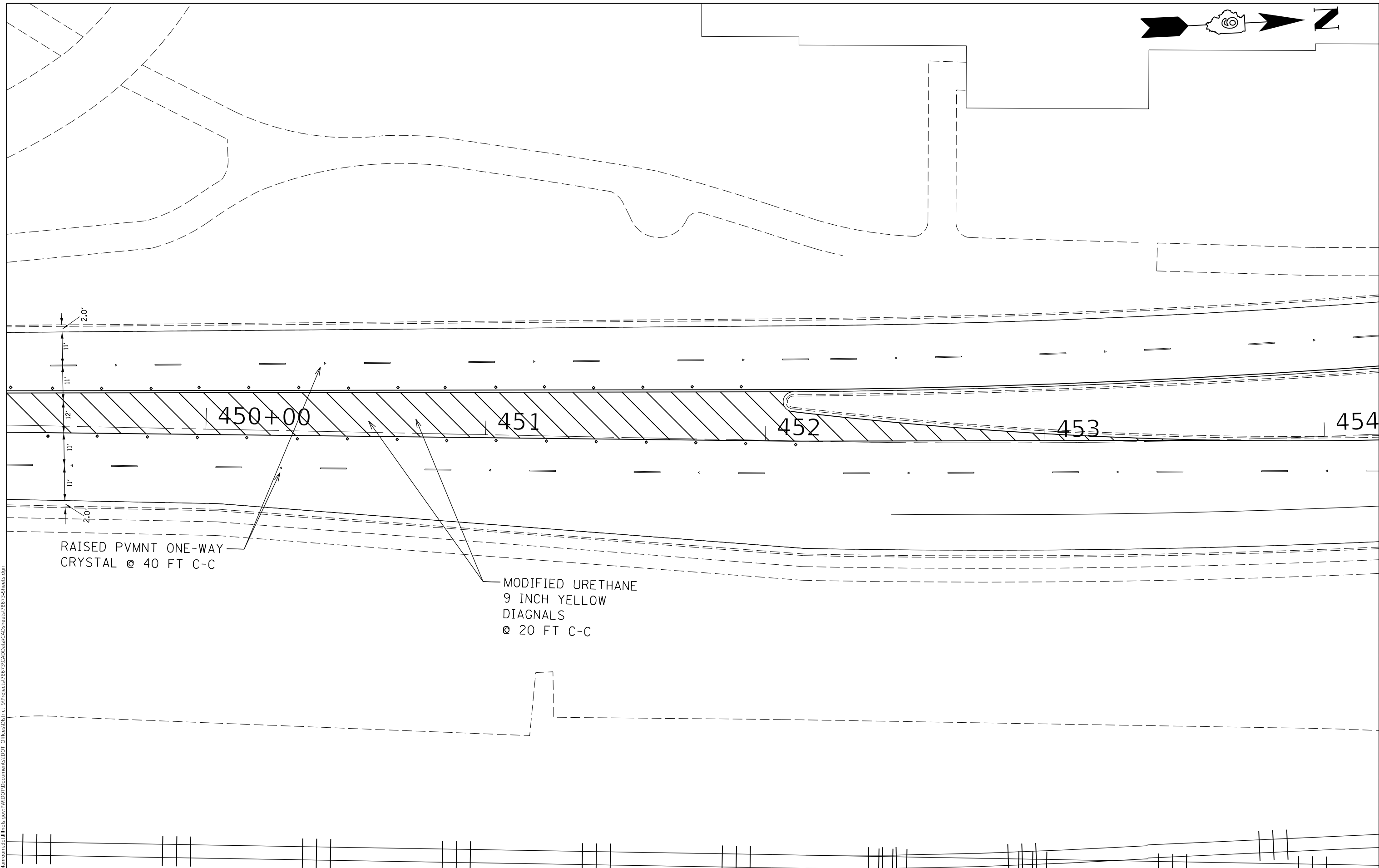
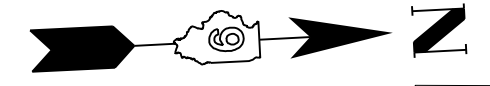
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PLOT DATE = 6/4/2019	CHECKED -	REVISED -
	DATE -	REVISED -

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

**DESIGN DETAILS FOR US 51 (FAP 322)**  
 SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE. 322	SECTION (9-1,9)RS-7	COUNTY JACKSON	TOTAL SHEETS 43	SHEET NO. 39
CONTRACT NO. 78673				
ILLINOIS FED. AID PROJECT				



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RAISED PVMNT ONE-WAY  
CRYSTAL @ 40 FT C-C

MODIFIED URETHANE  
9 INCH YELLOW  
DIAGNALS  
@ 20 FT C-C

USER NAME = jacksonac	DESIGNED -	REVISED -
DRAWN -	REVISED -	
PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -
PLOT DATE = 6/4/2019	DATE -	REVISED -

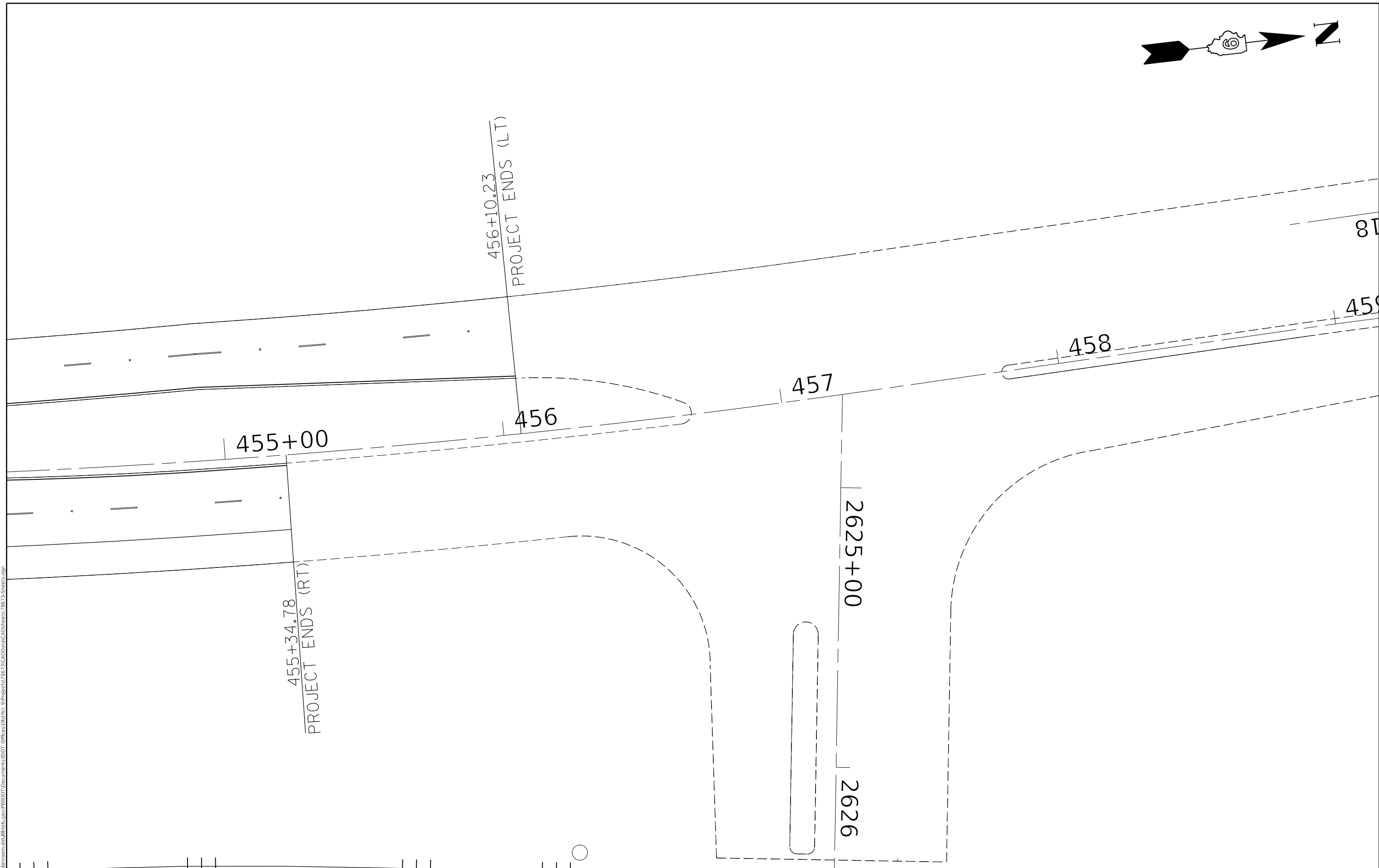
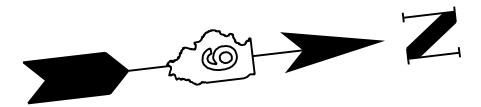
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**DESIGN DETAILS FOR US 51 (FAP 322)**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
322	(9-1,9)RS-7	JACKSON	43	40
CONTRACT NO. 78673				
ILLINOIS FED. AID PROJECT				





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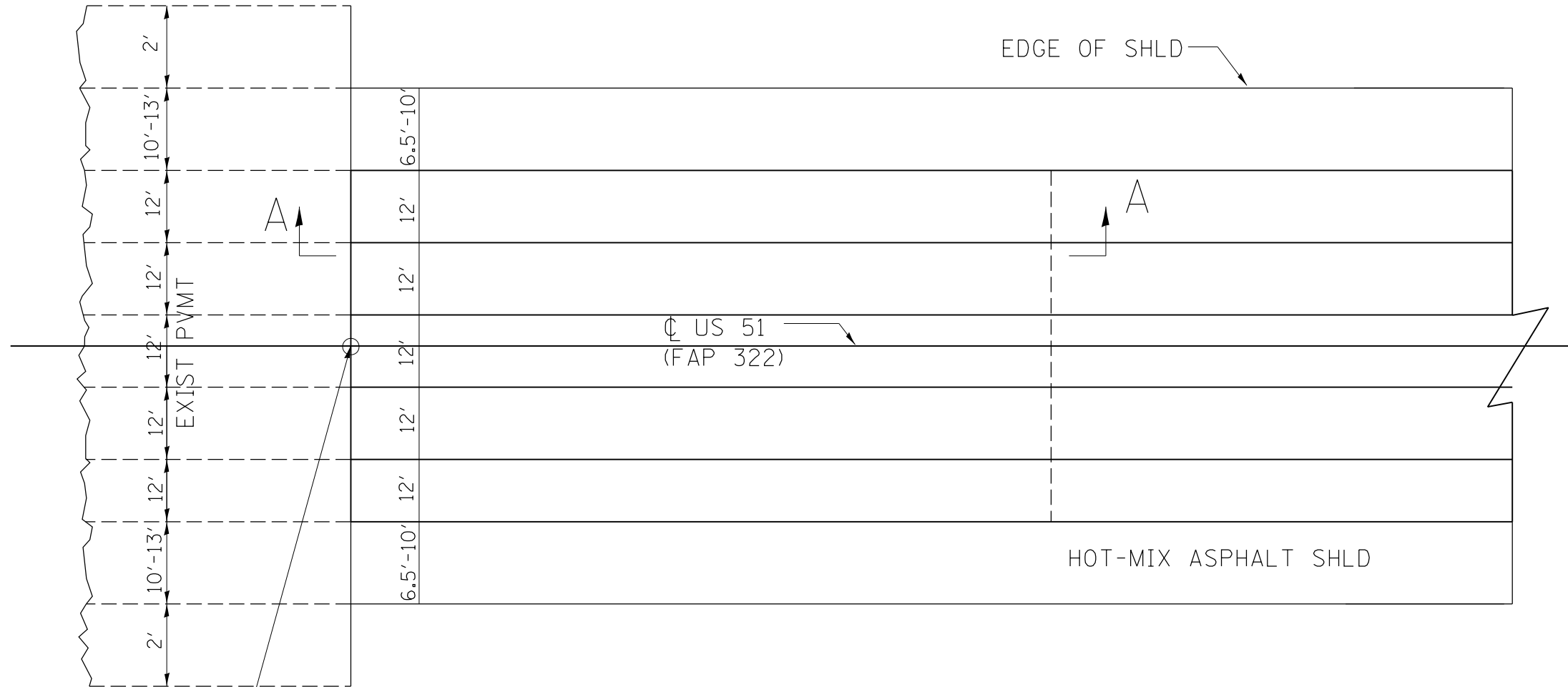
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PLOT DATE = 6/4/2019	CHECKED -	REVISED -
	DATE -	REVISED -

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

**DESIGN DETAILS FOR US 51 (FAP 322)**  
 SCALE: SHEET OF SHEETS STA. TO STA.

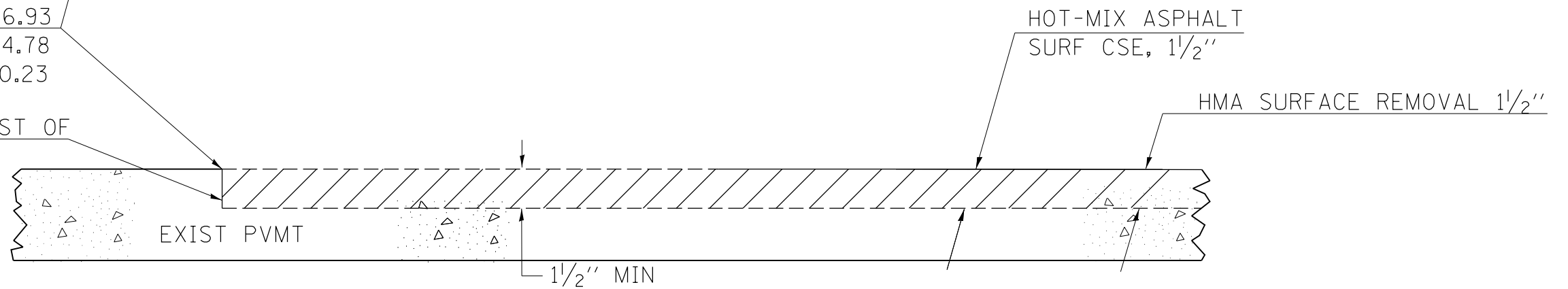
F.A.P. RTE. 322	SECTION (9-1,9)RS-7	COUNTY JACKSON	TOTAL SHEETS 43	SHEET NO. 41
CONTRACT NO. 78673			ILLINOIS FED. AID PROJECT	

# BUTT JOINT WITH MILLING



STA 372+36.23  
 STA 390+55.40  
 STA 395+66.93  
 STA 455+34.78  
 STA 456+10.23

SAW CUT (INCLUDED IN THE COST OF HMA SURFACE REMOVAL)



SECTION A-A

REVISIONS	
DRAWN	03-09-17
REVISED	
REVISED	
REVISED	

STD. 9-118

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PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -
PLOT DATE = 6/4/2019	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

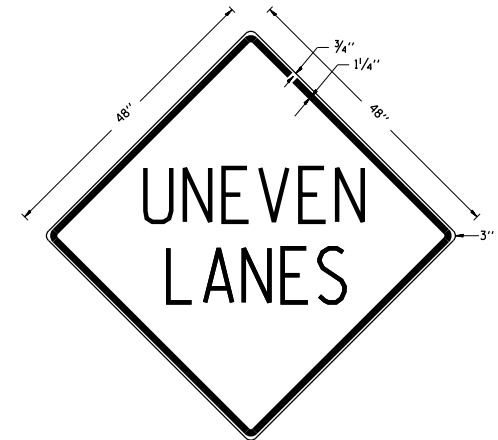
**DETAILS FOR BUTT JOINTS**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
322	(9-1,9)RS-7	JACKSON	43	42
CONTRACT NO. 78673				
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.

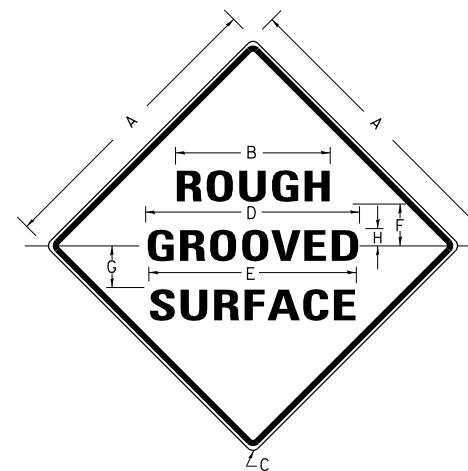
THE COST OF FURNISHING, ERECTING, MAINTAINING, AND REMOVING THE REQUIRED SIGNS SHALL BE INCLUDED IN THE CONTRACT.

### 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: Default  
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	DRAWN -	REVISED -
PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 6/4/2019	DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

UNEVEN LANE SIGN DETAIL AND ROUGH GROOVED SURFACE SIGNS

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
322	(9-1,9)RS-7	JACKSON	43	43
CONTRACT NO. 78673				
ILLINOIS		FED. AID PROJECT		