

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

**PROPOSED
HIGHWAY PLANS**

F.A.I. ROUTE 94: I-94 (NB)
LAWRENCE AVE TO S. OF IL 68 (DUNDEE RD)
SECTION 2015-0231
CRACK & JOINT SEALING
COOK COUNTY

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	2014-0411	COOK	30	1
ILLINOIS CONTRACT NO. 62A79				

D-91-314-15

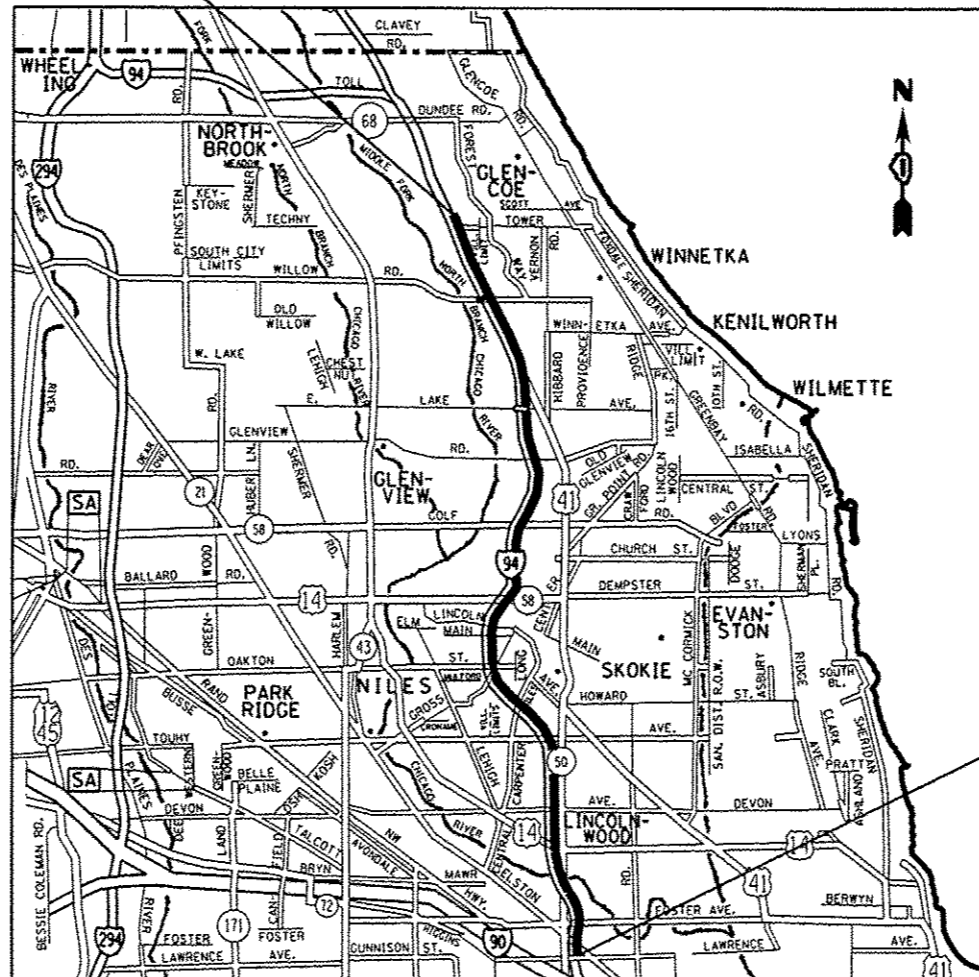


FOR INDEX OF SHEETS, SEE SHEET NO. 2

IMPROVEMENT LOCATED WITHIN THE VILLAGES OF NORTHBROOK, NORTHFIELD, GLENVIEW, WILMETTE, SKOKIE, MORTON GROVE, NILES, LINCOLNWOOD AND THE CITY OF CHICAGO.

IMPROVEMENT ENDS
STA 617 + 44

C-91-314-15



IMPROVEMENT BEGINS
STA. 25 + 70

TRAFFIC DATA I-94

2014 ADT = 159400
POSTED SPEED LIMIT = 55 MPH

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.

C.U.A.N.
CHICAGO UTILITY ALERT NETWORK
1-312-744-7000

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

PROJECT ENGINEER: JEAN A. MIDY (847) 221-3056
PROJECT MANAGER: ISSAM RAYYAN (847) 705-4178

CONTRACT NO. 62A79

GROSS LENGTH OF IMPROVEMENT = 59174 FT. = 11.2 MILE

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED 4-1-2015

John P. Baranzelli
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

May 8 2015
John D. Baranzelli PE
ENGINEER OF DESIGN AND ENVIRONMENT

May 8 2015
Onor Osman PE
DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

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OF THE STATE OF ILLINOIS

INDEX OF SHEETS

SHEET NO.	DESCRIPTION
1	TITLE SHEET
2	INDEX OF SHEETS, STATE STANDARDS AND GENERAL NOTES
3	SUMMARY OF QUANTITIES
4-24	PROPOSED PLANS AND PAVEMENT MARKING PLANS
25	CRACK & JOINT SEALING DETAIL
26	FREEWAY ENTRANCE AND EXIT RAMP (TC-08)
27	TRAFFIC CONTROL DETAILS FOR FREEWAY SINGLE & MULTI-LANE WEAVE (TC-09)
28-29	MULTI-LANE FREEWAY PAVEMENT MARKING DETAILS (TC-12)
30	TRAFFIC CONTROL DETAILS FOR FREEWAY SHOULDER CLOSURES AND PARTIAL RAMP CLOSURES (TC-17)

STANDARDS

701400-08	APPROACH TO LANE CLOSURE, FREEWAY/EXPRESSWAY
701401-09	LANE CLOSURE, FREEWAY/EXPRESSWAY
701411-09	LANE CLOSURE, MULTILANE AT ENTRANCE OR EXITRAMP, FOR SPEEDS \geq 45 MPH
701426-07	LANE CLOSURE, MULTILANE, INTERMITTENT OR MOVING OPERATION, FOR SPEEDS \geq 45 MPH
701428	TRAFFIC CONTROL SETUP AND REMOVAL FREEWAY/EXPRESSWAY
701446-06	TWO LANE CLOSURE FREEWAY/EXPRESSWAY
701901-04	TRAFFIC CONTROL DEVICES

GENERAL NOTES

BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL "C.U.A.N." (CHICAGO UTILITY ALERT NETWORK) AT (312) 744-7000 FOR FIELD LOCATIONS OF BURIED ELECTRIC, TELEPHONE AND GAS UTILITIES. (48 HOUR NOTIFICATION IS REQUIRED).

BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL "J.U.L.I.E." AT (800) 892-0123 OR 811 FOR FIELD LOCATIONS OF BURIED ELECTRIC, TELEPHONE AND GAS UTILITIES. 48 HOUR NOTIFICATION IS REQUIRED.

THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES OF THE VILLAGES OF NORTHBROOK, NORTHFIELD, GLENVIEW, WILMETTE, SKOKIE, MORTON GROVE, NILES, LINCOLNWOOD AND THE CITY OF CHICAGO.

THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON STATE PROPERTY WITHOUT WRITTEN PERMISSION FROM THE DEPARTMENT.

IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND CONDITIONS EXISTING IN THE FIELD PRIOR TO CONSTRUCTION AND ORDERING OF MATERIALS.

THE CONTRACTOR SHALL CONTACT THE DISTRICT ONE TRAFFIC CONTROL SUPERVISOR AT (847) 705-4151 A MINIMUM OF 72 HOURS IN ADVANCE OF BEGINNING WORK.

THE ENGINEER SHALL CONTACT SYED BILGRAMI (NORTH COOK CO) AT(773) 685-8386 AND JOE ECKERT (CENTRAL COOK CO) AT (224) 217-8632, AREA TRAFFIC FIELD ENGINEER A MINIMUM OF TWO (2) WEEKS PRIOR TO THE PLACEMENT OF PERMANENT PAVEMENT MARKINGS.

ALL CRACK ROUTING & CRACK SEALING LOCATIONS WILL BE DETERMINED IN THE FIELD BY THE ENGINEER. CRACK ROUTING SHALL BE OMITTED WHERE VEHICLE DETECTOR LOOPS & RAISED REFLECTIVE PAVEMENT MARKERS ARE PRESENT IN THE PAVEMENT.

MATERIALS RESULTING FROM THE ROUTING OF CRACKS IN THE EXISTING PAVEMENT MAY BE PLACED, SHAPED AND COMPACTED TO THE SATISFACTION OF THE ENGINEER ALONG EXISTING AGGREGATE SHOULDERS ADJACENT TO THE PAVEMENT. ALL MATERIALS RESULTING FROM THE ROUTING OF CRACKS IN PAVEMENTS WITHOUT AGGREGATE SHOULDERS AND SURPLUS MATERIALS RESULTING FROM THE ROUTING OF CRACKS IN PAVEMENTS WITH AGGREGATE SHOULDERS, WHERE ALL MATERIALS ARE NOT PLACED ALONG EXISTING AGGREGATE SHOULDERS, SHALL BE DISPOSED OF AS SPECIFIED IN ARTICLE 202.03 OF THE STANDARD SPECIFICATIONS. OLD SEALANTS REMOVED PRIOR TO ROUTING SHALL BE DISPOSED OF AS SPECIFIED IN ARTICLE 202.03. THIS WORK WILL NOT BE PAID FOR SEPARATELY, BUT THE COST SHALL BE CONSIDERED AS INCLUDED IN THE CONTRACT UNIT PRICE FOR THE CONSTRUCTION ITEMS INVOLVED, AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.

DO NOT SCALE PLANS FOR CONSTRUCTION DIMENSIONS.

CONTACT IDOT ELECTRIC MAINTENANCE CONTRACTOR AT (773) 287-7600 TO LOCATE ANY ELECTRIC CABLES WITHIN STATE R.O.W.

FILE NAME :	USER NAME : Gorangautab	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	INDEX OF SHEETS, STATE STANDARDS AND GENERAL NOTES	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
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	PLOT DATE = 4/1/2015	DATE -	REVISED -			ILLINOIS FED. AID PROJECT					
						SCALE:	SHEET	OF	SHEETS	STA.	TO STA.

SUMMARY OF QUANTITIES				URBAN 100% STATE TOTAL QUANTITIES					CONSTRUCTION TYPE CODE 0005				
CODE NO	ITEM	UNIT	TOTAL QUANTITIES										
45100100	CRACK ROUTING (PAVEMENT)	FOOT	239216	239216									
45100200	CRACK FILLING	POUND	143530	143530									
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	4	4									
67100100	MOBILIZATION	LSUM	1	1									
70200100	NIGHTTIME WORK ZONE LIGHTING	LSUM	1	1									
78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	103650	103650									
78000500	THERMOPLASTIC PAVEMENT MARKING - LINE 8"	FOOT	23275	23275									
78300100	PAVEMENT MARKING REMOVAL	SQ FT	50070	50070									
X7010410	SPEED DISPLAY TRAILER	CAL MO	3	3									
X7011015	TRAFFIC CONTROL AND PROTECTION (EXPRESSWAYS)	LSUM	1	1									
X7800815	HOT SPRAY THERMOPLASTIC PAVEMENT MARKING LINE - 4 INCH	FOOT	2660	2660									
X7800825	HOT SPRAY THERMOPLASTIC PAVEMENT MARKING LINE - 5 INCH	FOOT	29600	29600									
			<i>* Specialty Items</i>										

SUMMARY OF QUANTITIES				CONSTRUCTION TYPE CODE				
CODE NO	ITEM	UNIT	TOTAL QUANTITIES					



I-94
(EDENS EXPRESSWAY)

PROPOSED THERMOPLASTIC
PAVEMENT MARKING 4" YELLOW EDGE LINE
(TYP)

LAWRENCE AVENUE

MATCHLINE STA. 26+00.00

15+00

20+00

25+00

IMPROVEMENT BEGINS
STA 25+70 N.B.

PROPOSED THERMOPLASTIC
PAVEMENT MARKING
4" WHITE EDGE LINE (TYP)



I-94
(EDENS EXPRESSWAY)

PROPOSED HOT SPRAY THERMOPLASTIC
PAVEMENT MARKING 5" WHITE
SKIP DASH (10' DASH - 30' SKIP)
(TYP)

LIMITS OF IMPROVEMENT

ELSTON AVENUE

MATCHLINE STA. 26+00.00

MATCHLINE STA. 41+00.00

+25

30+00

+60

35+00

40+00

PROPOSED THERMOPLASTIC
PAVEMENT MARKING 4" WHITE EDGE LINE
(TYP)

PROPOSED CRACK ROUTING
PROPOSED CRACK FILLING

PROPOSED THERMOPLASTIC
PAVEMENT MARKING 4" YELLOW EDGE LINE
(TYP)

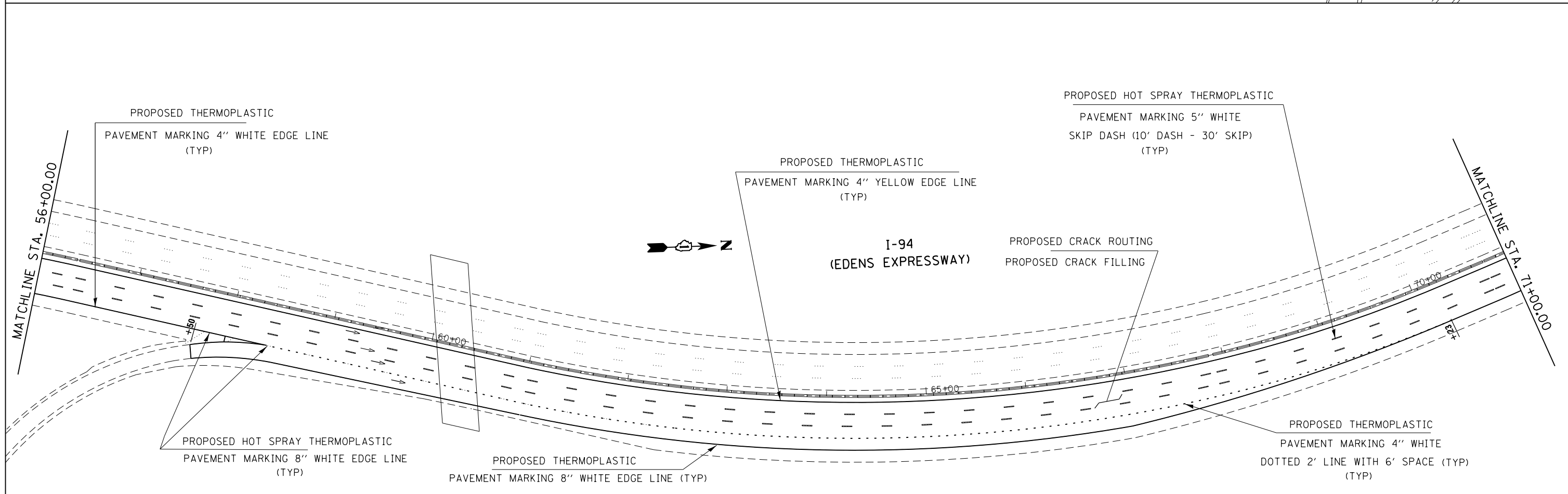
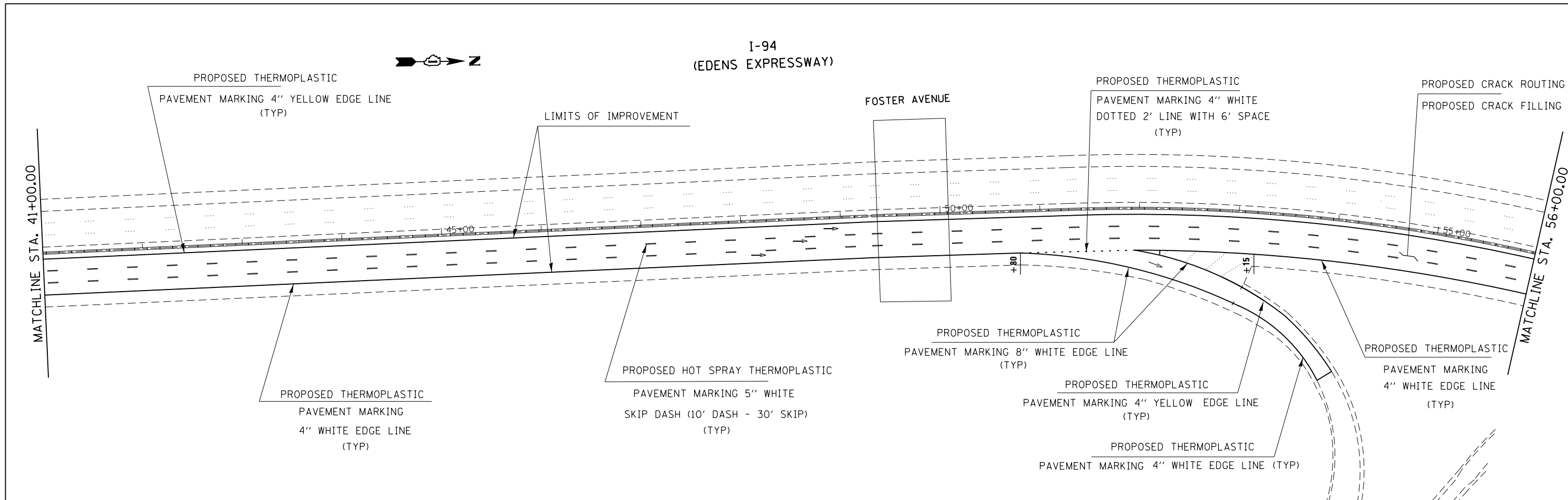
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

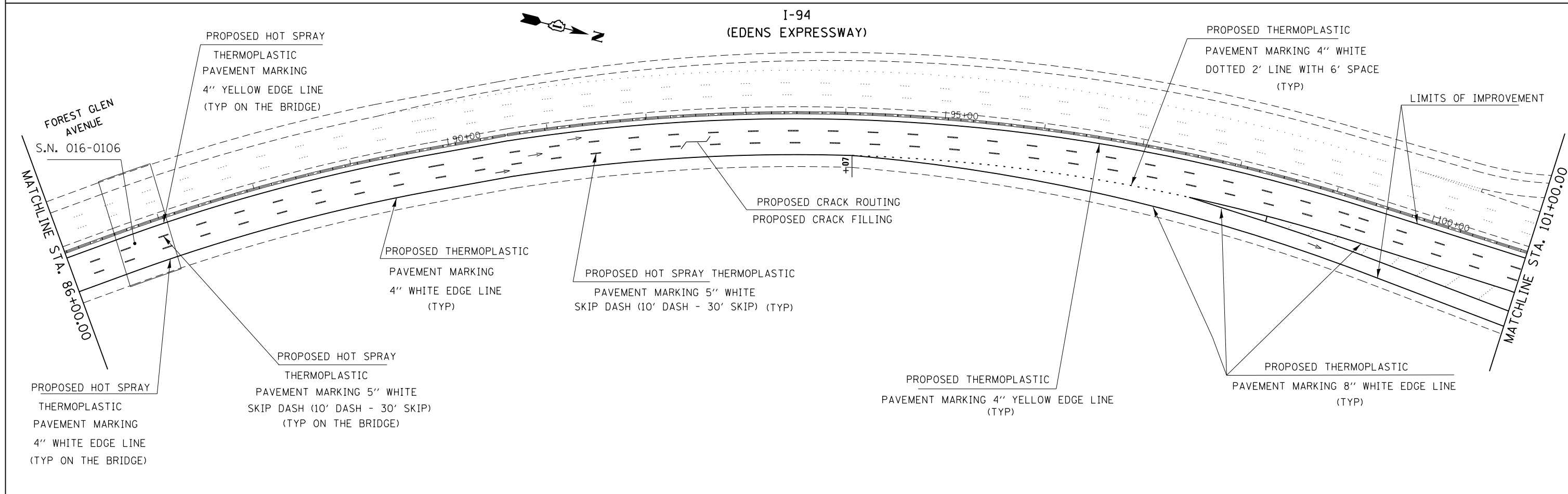
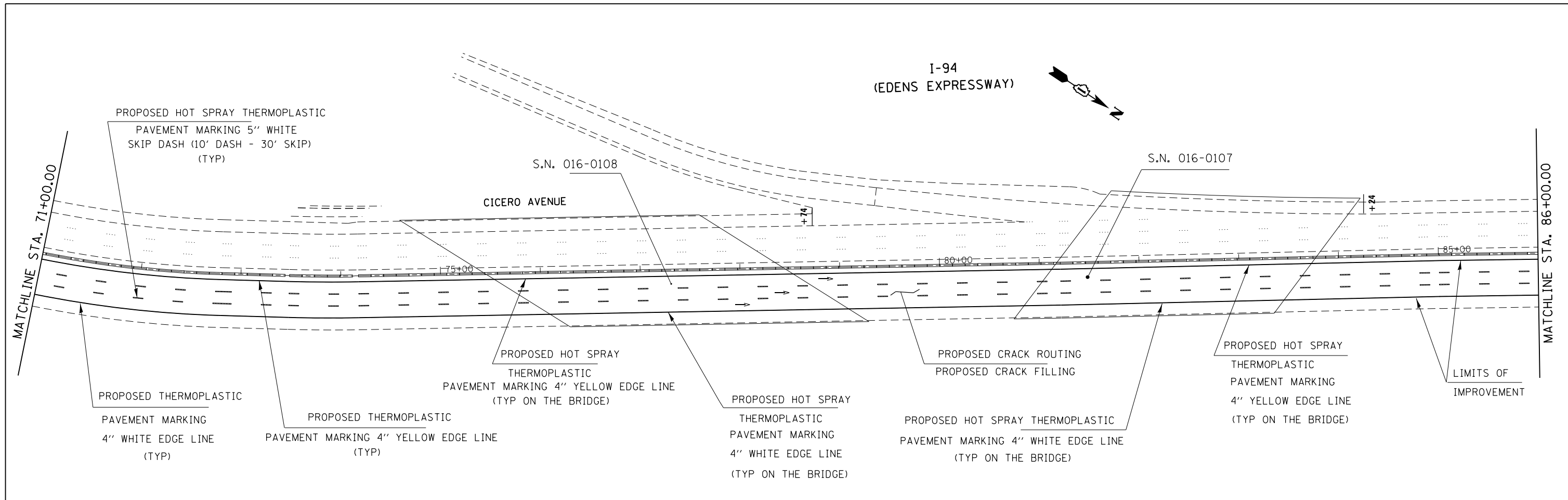
ROADWAY PLAN
I-94 (LAWRENCE AVENUE TO LAKE COOK ROAD)

SCALE: 1" = 50' SHEET OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	2015-0231	COOK	30	4
CONTRACT NO. 62A79				
ILLINOIS FED. AID PROJECT				



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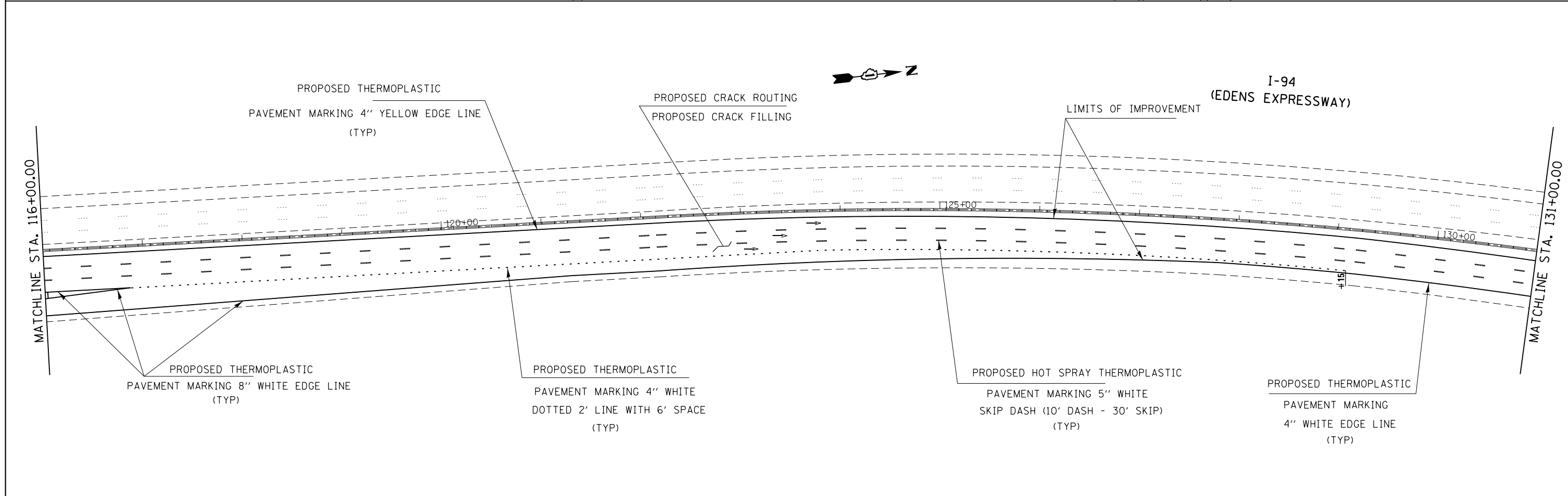
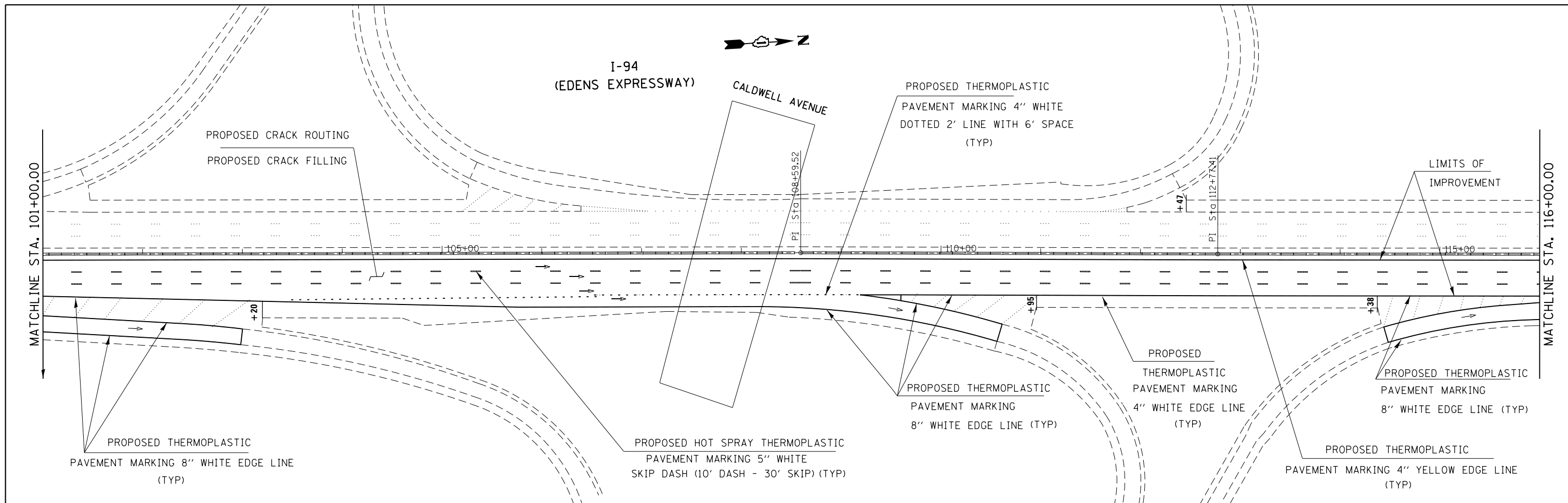
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DEPARTMENT OF TRANSPORTATION**

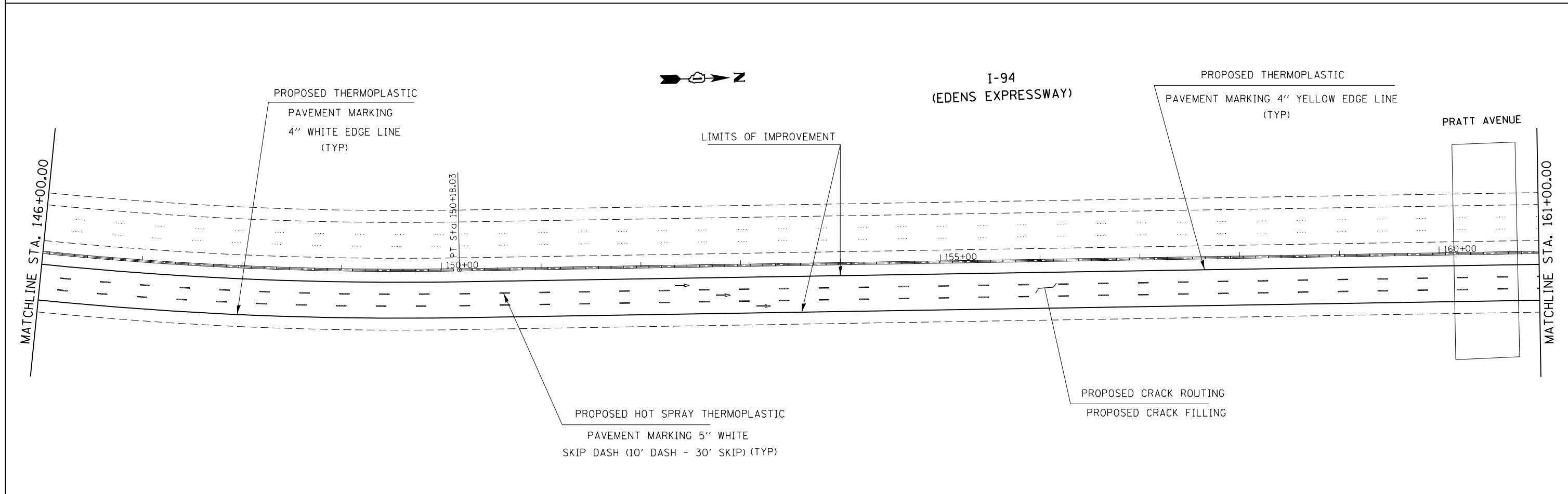
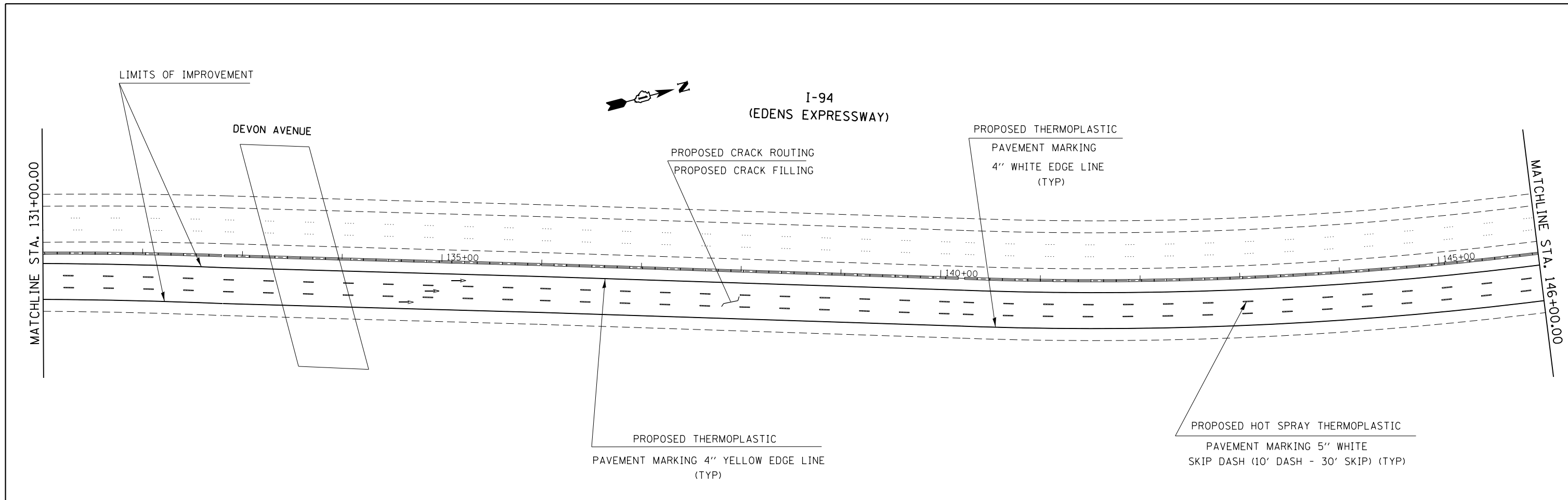
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SCALE: 1" = 50' SHEET OF SHEETS STA. TO STA.

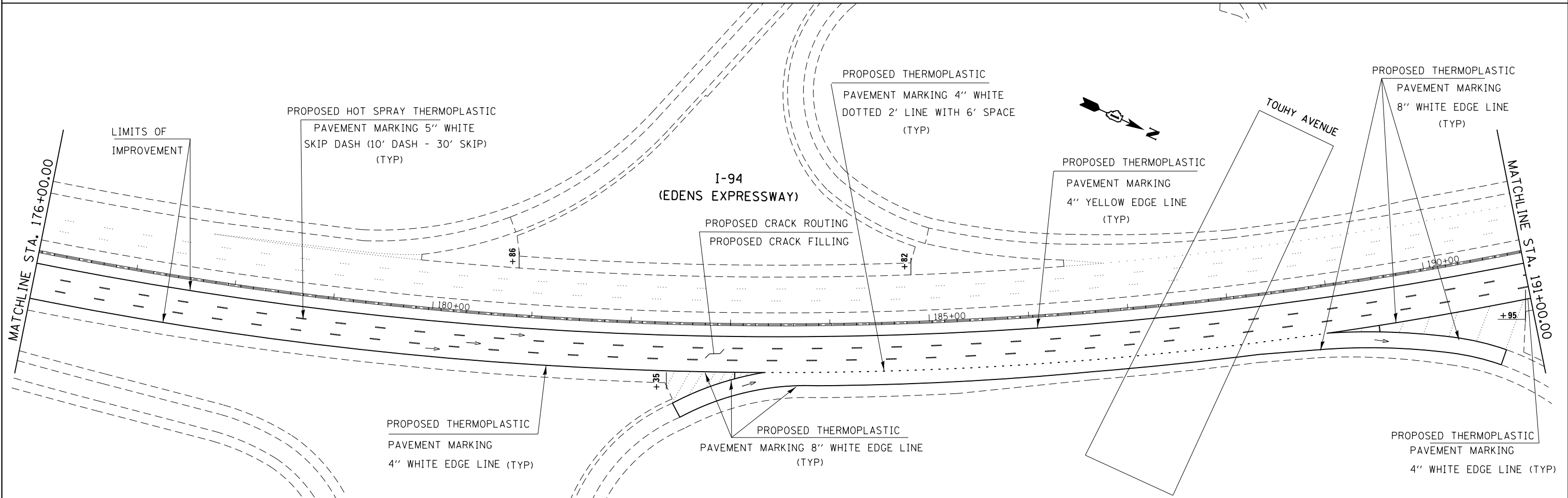
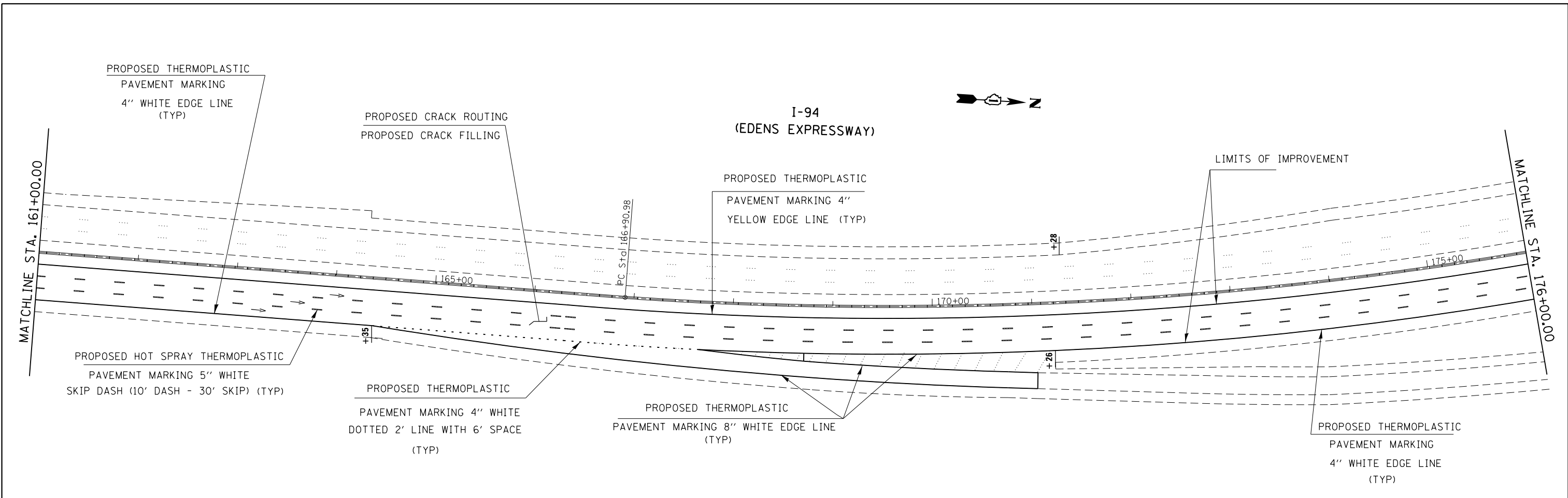
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CONTRACT NO. 62A79				
ILLINOIS FED. AID PROJECT				



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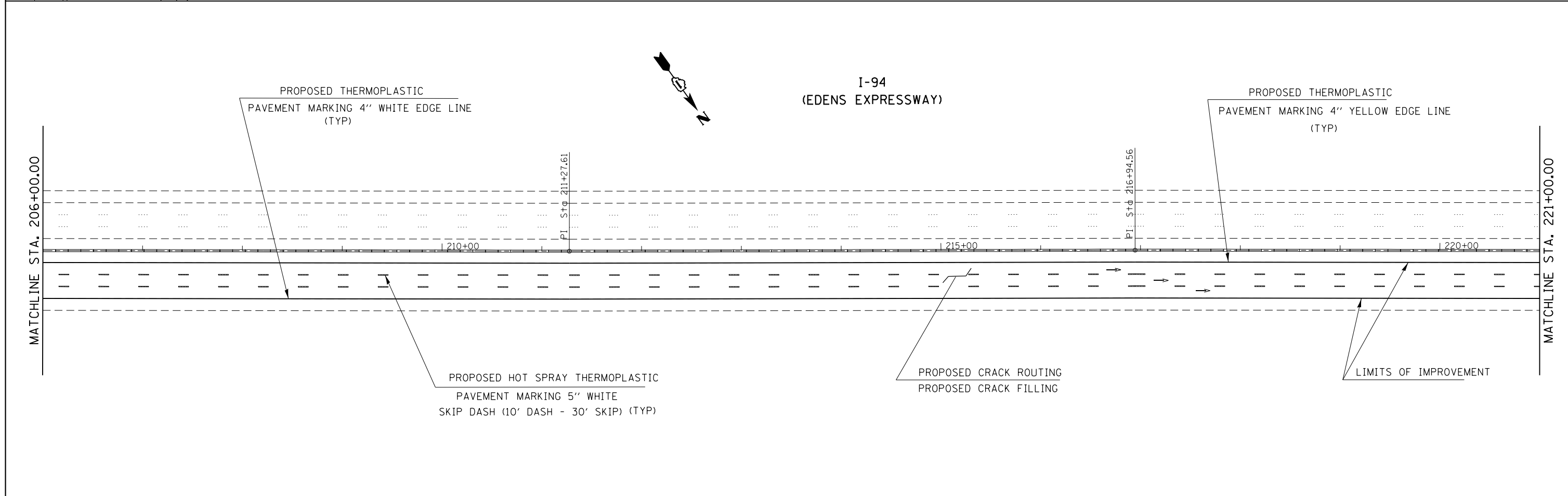
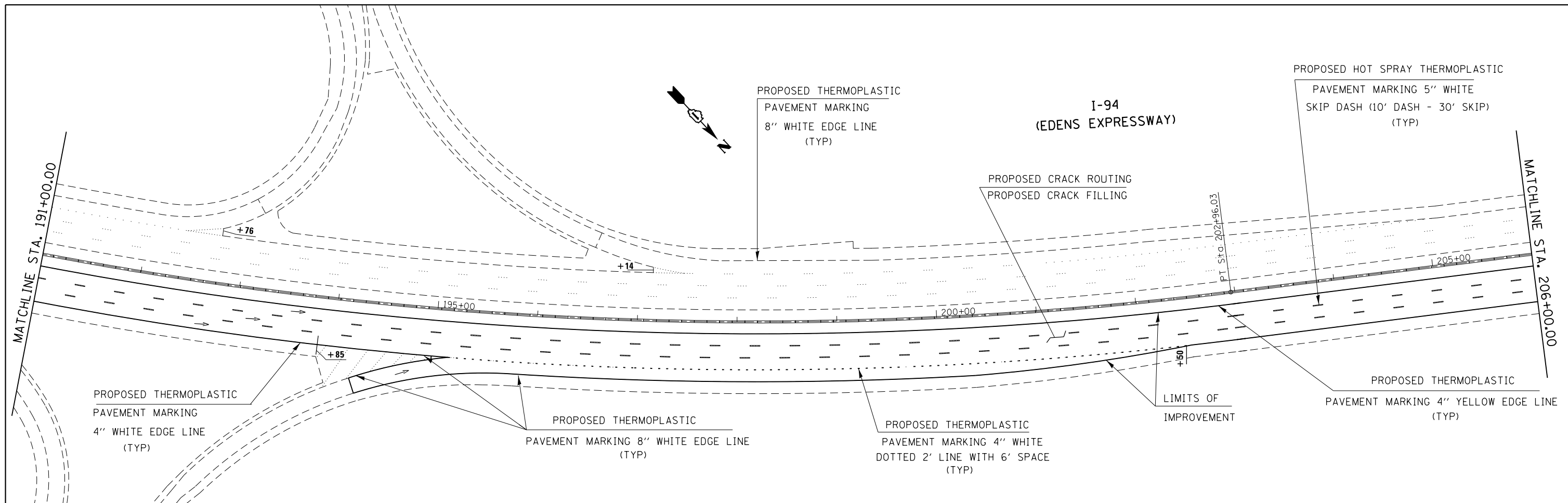


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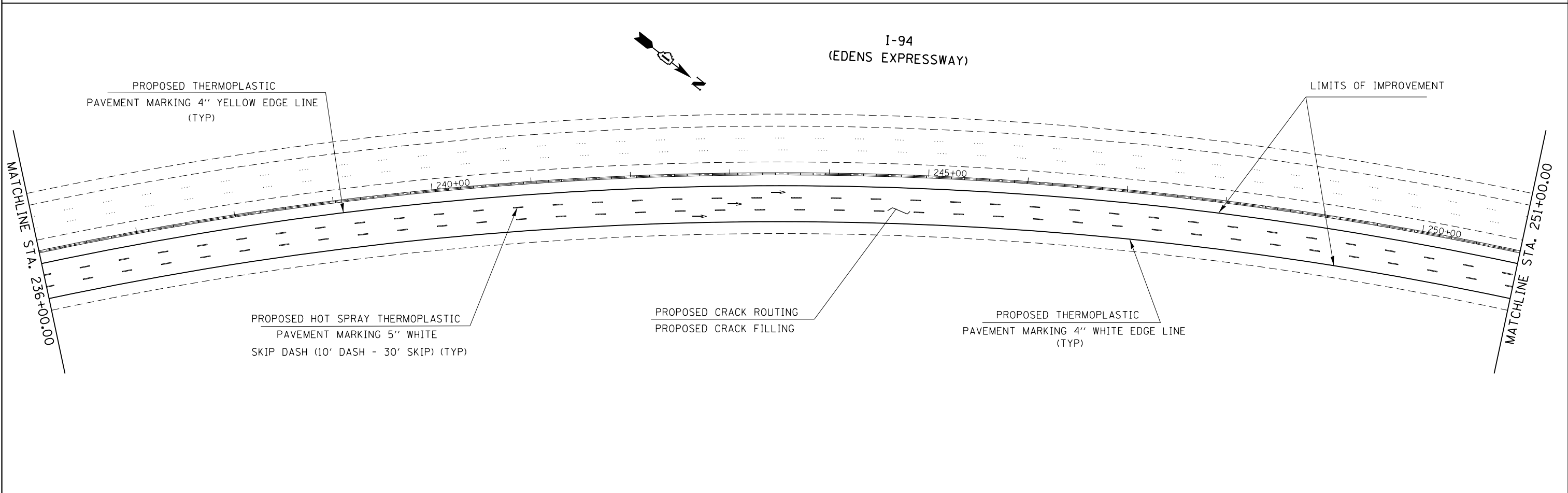
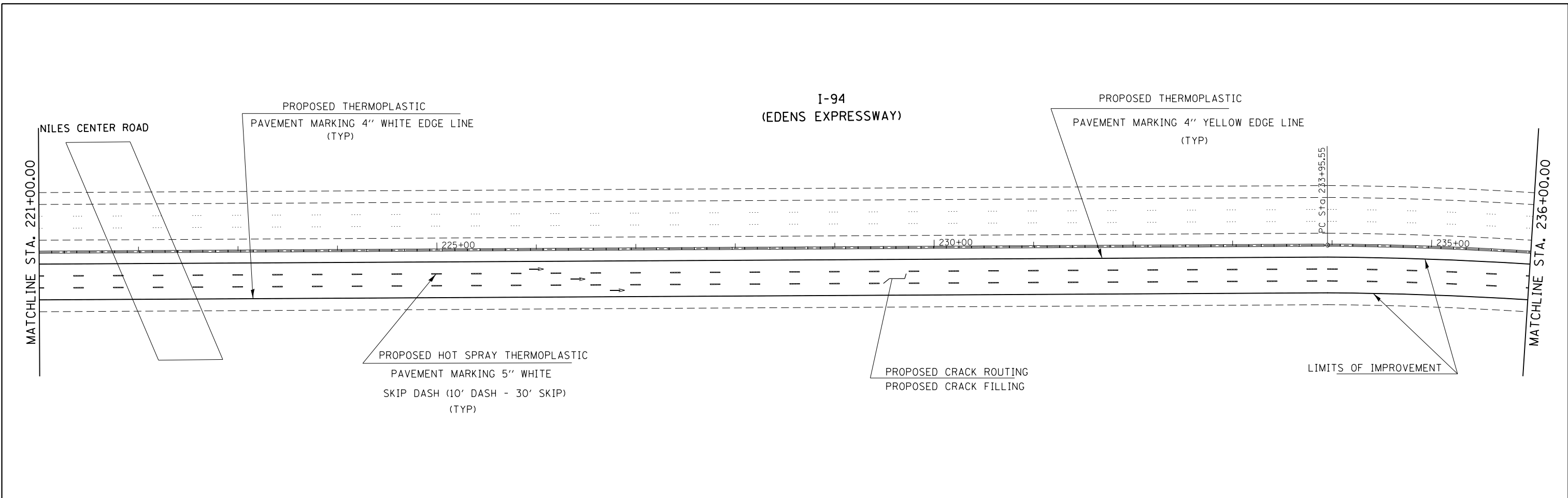


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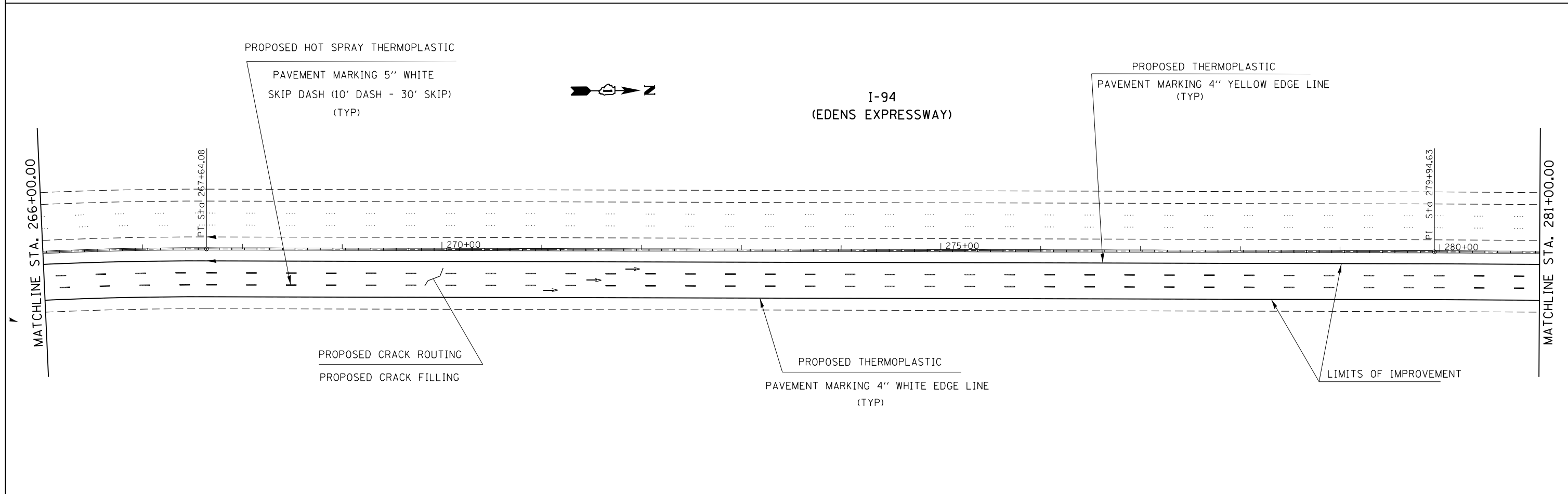
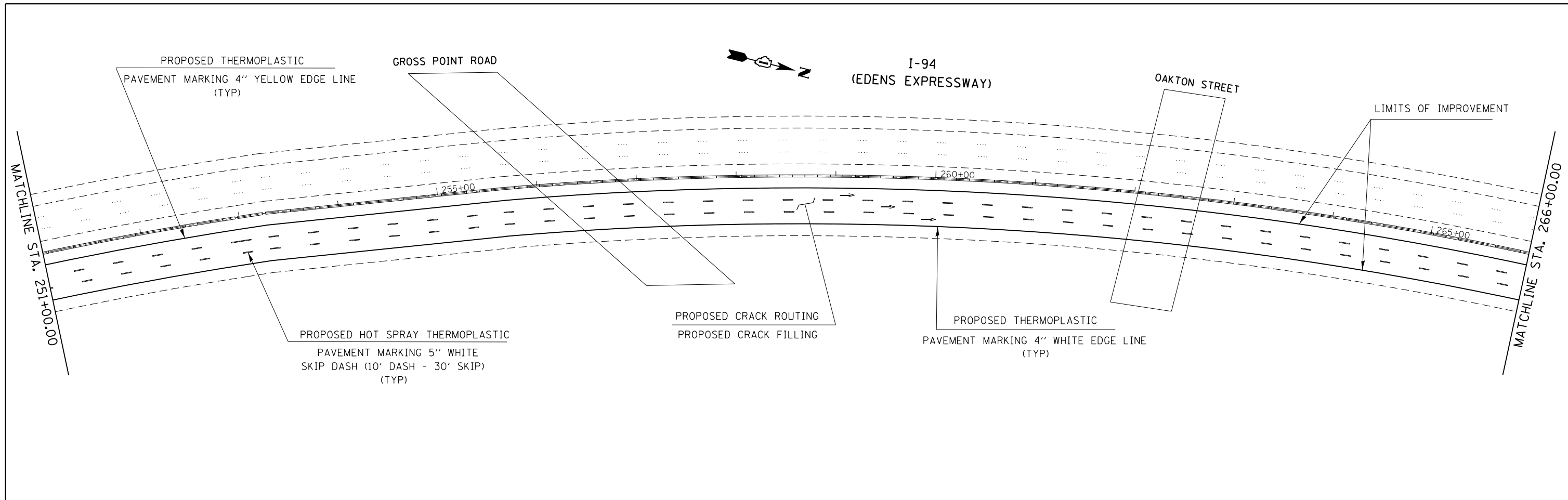
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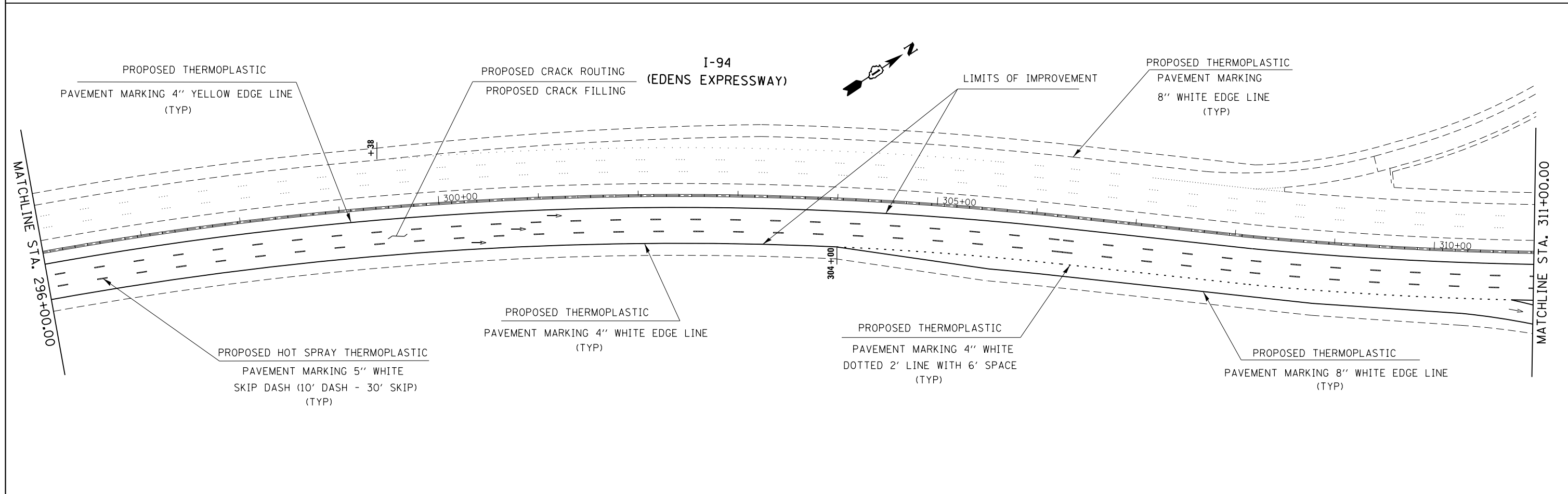
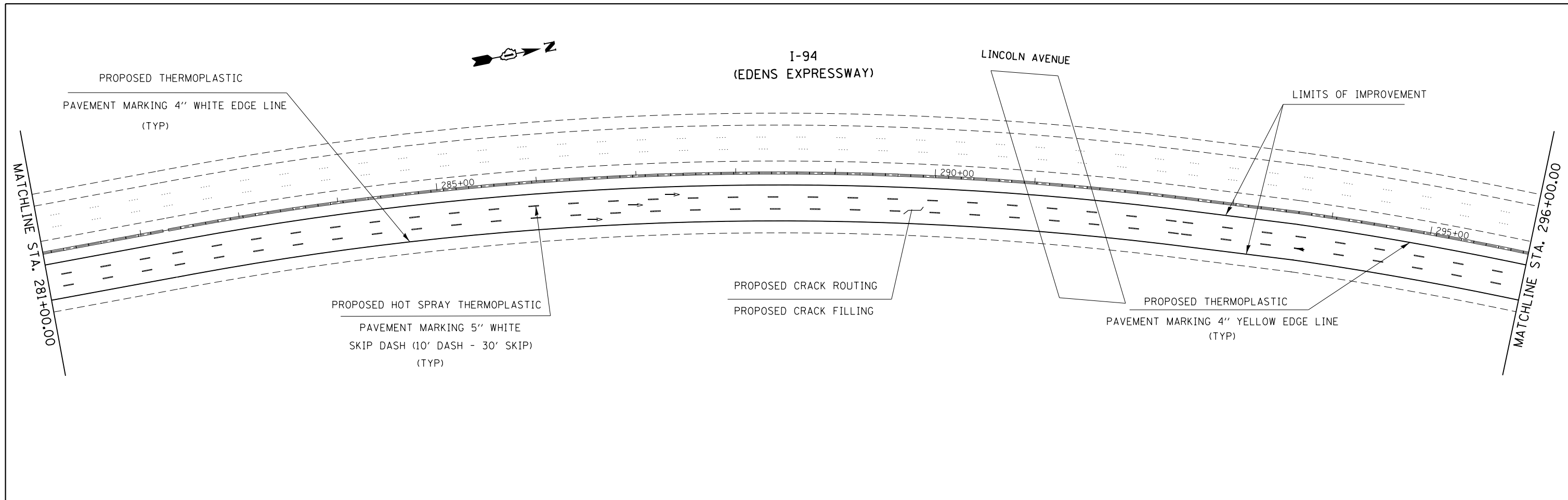
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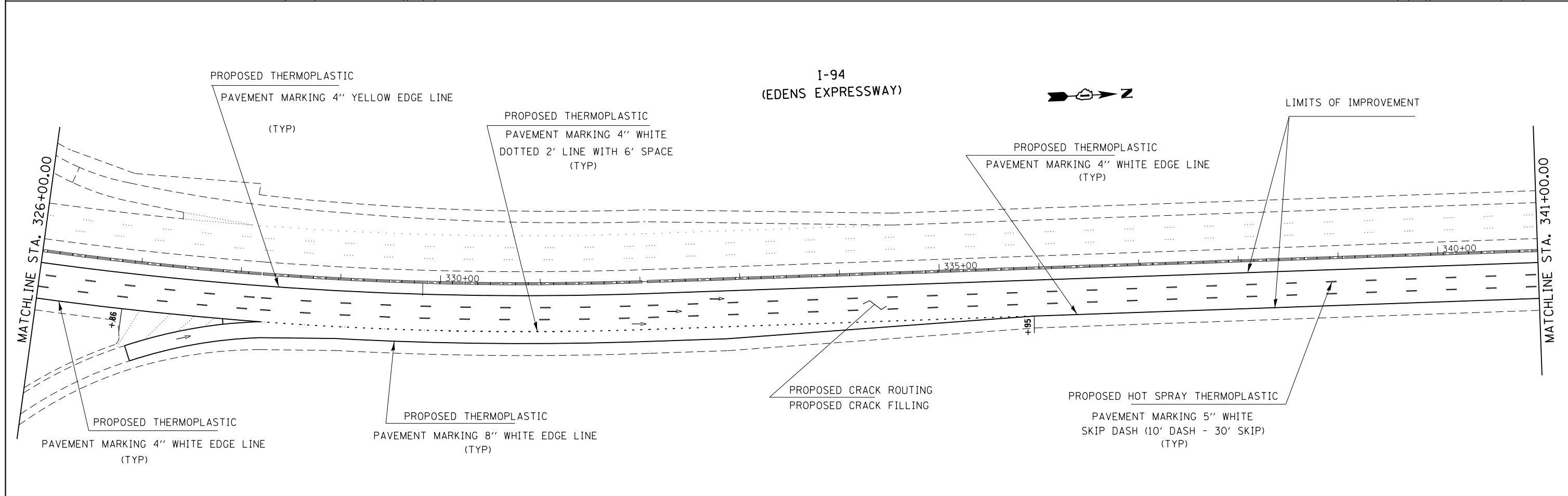
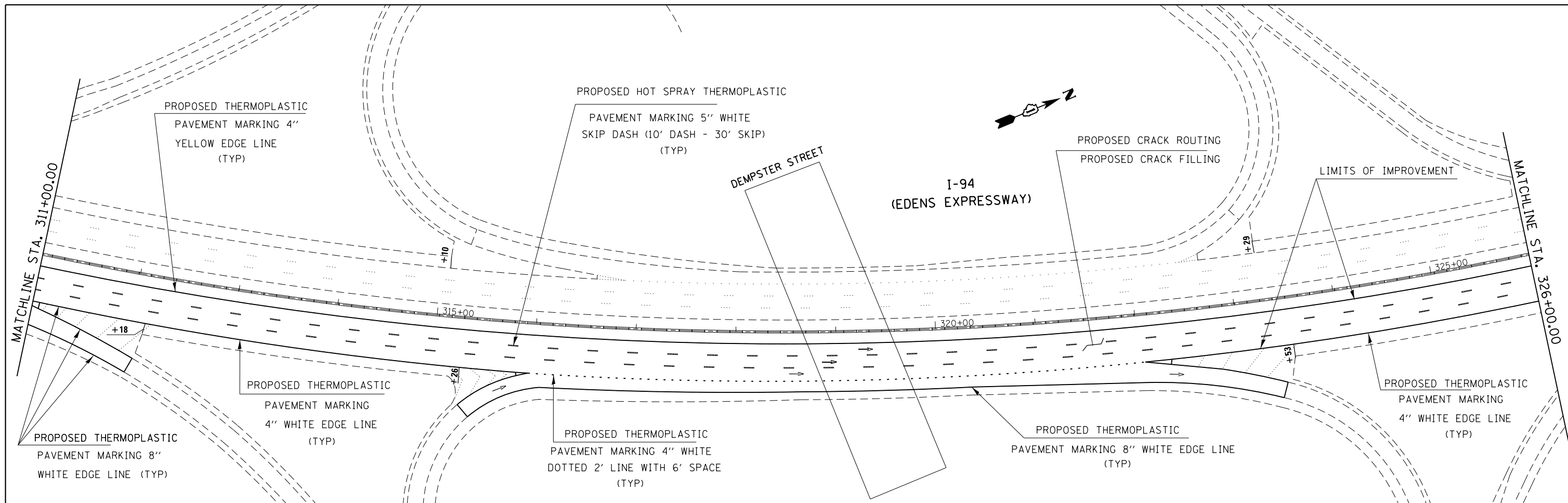
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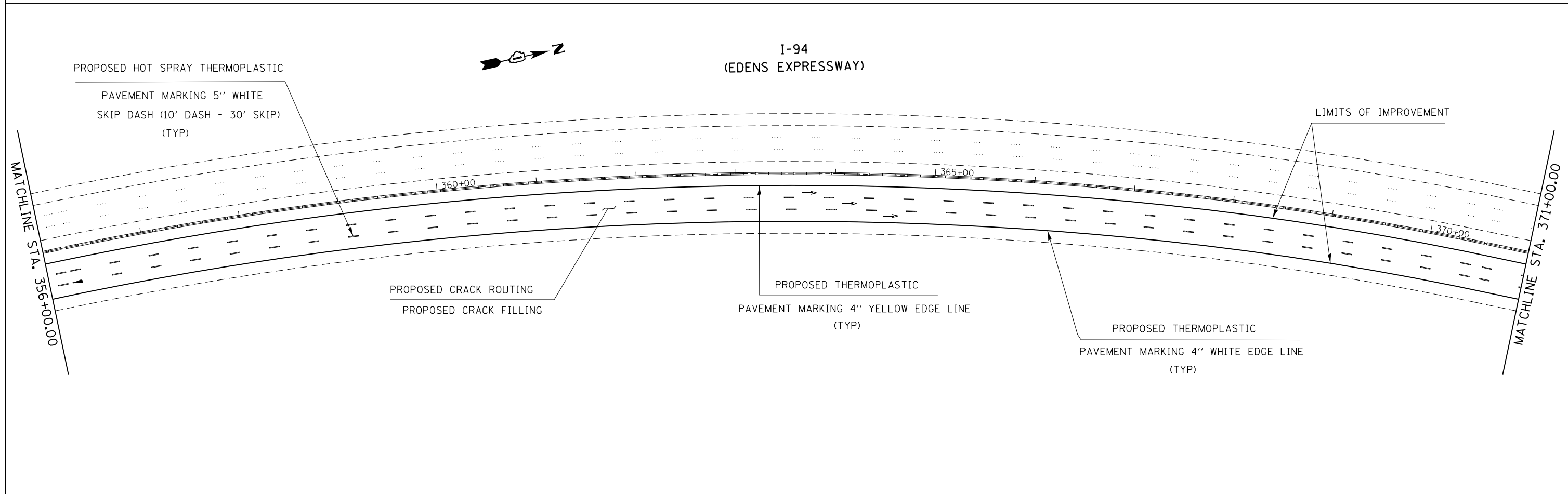
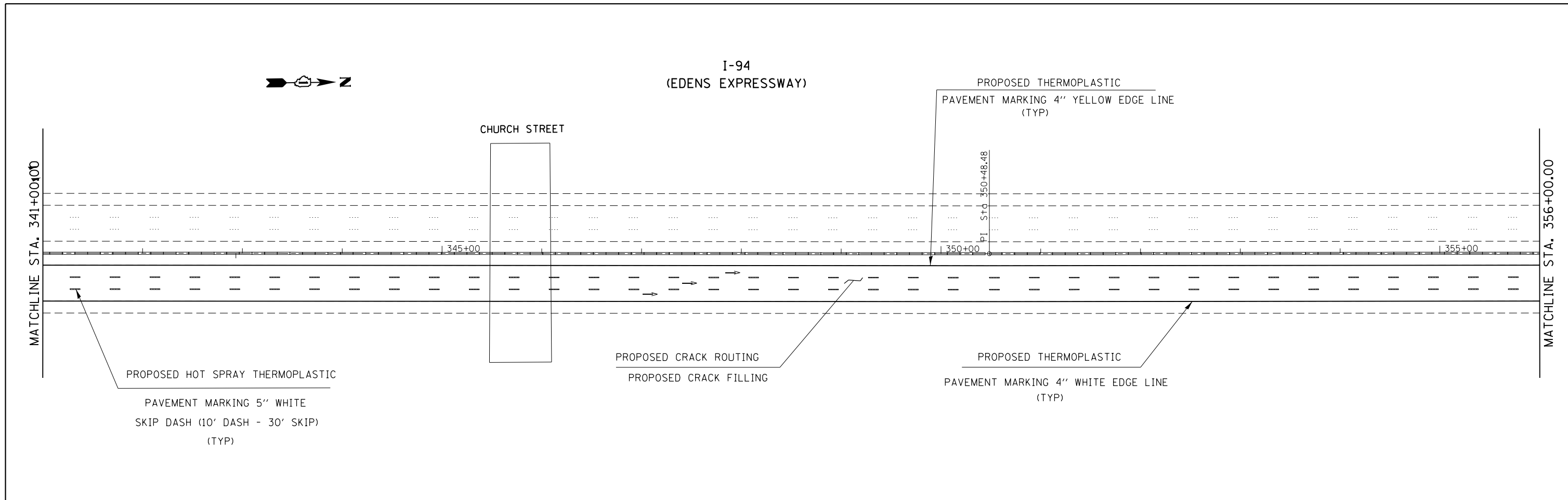
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

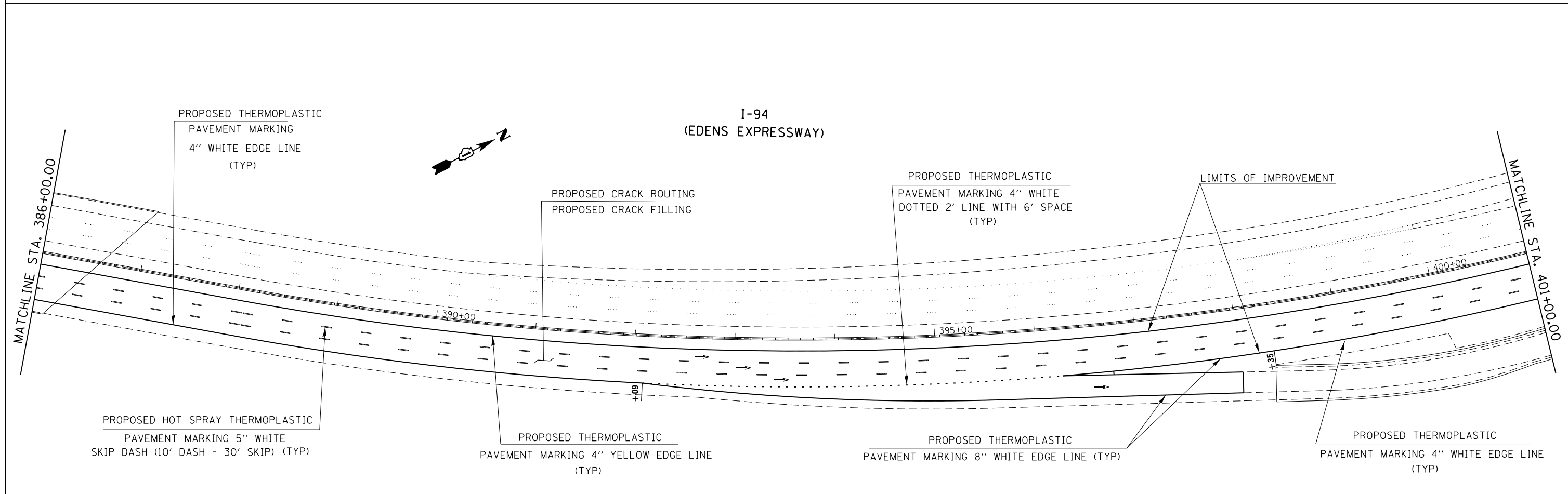
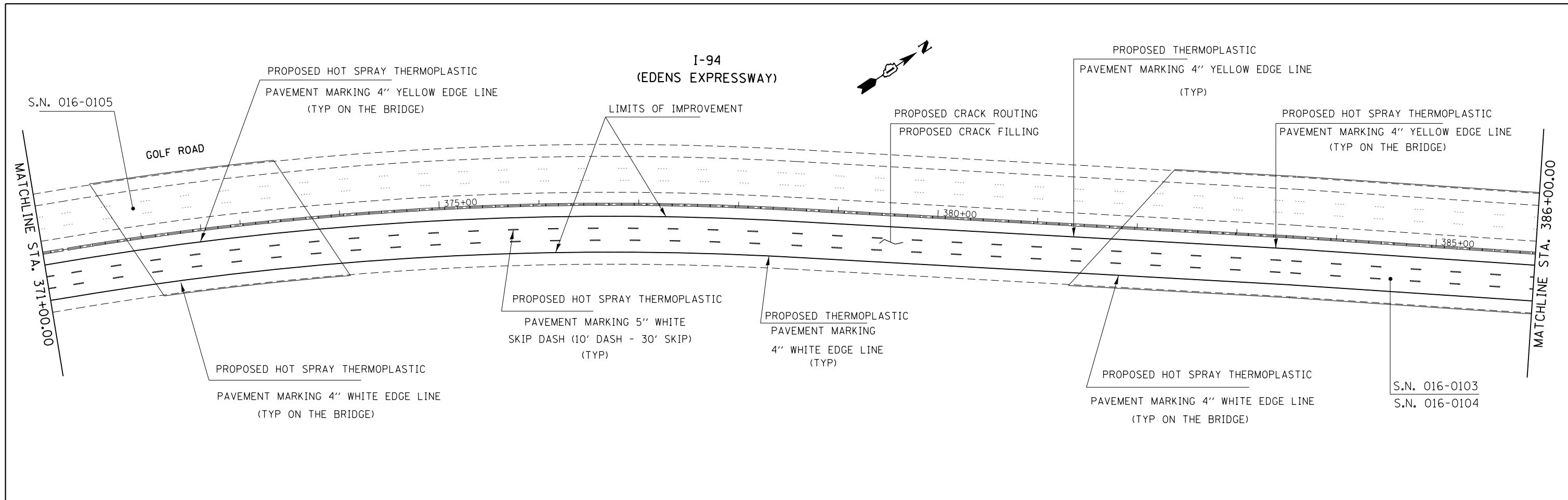
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I-94 (LAWRENCE AVENUE TO LAKE COOK ROAD)**

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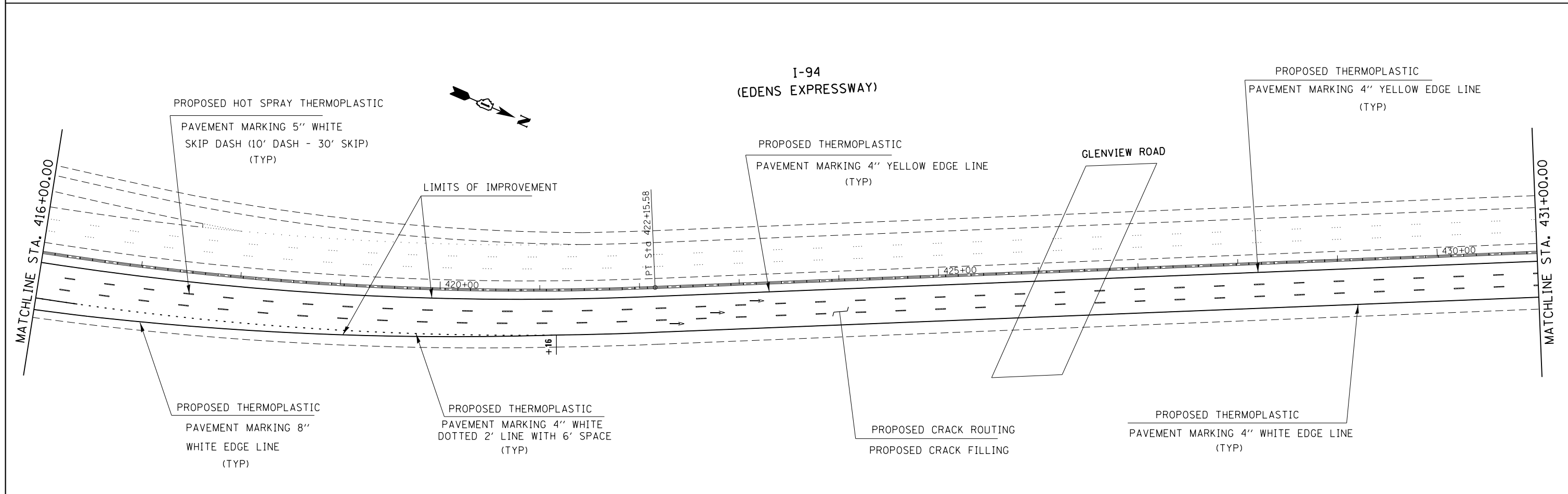
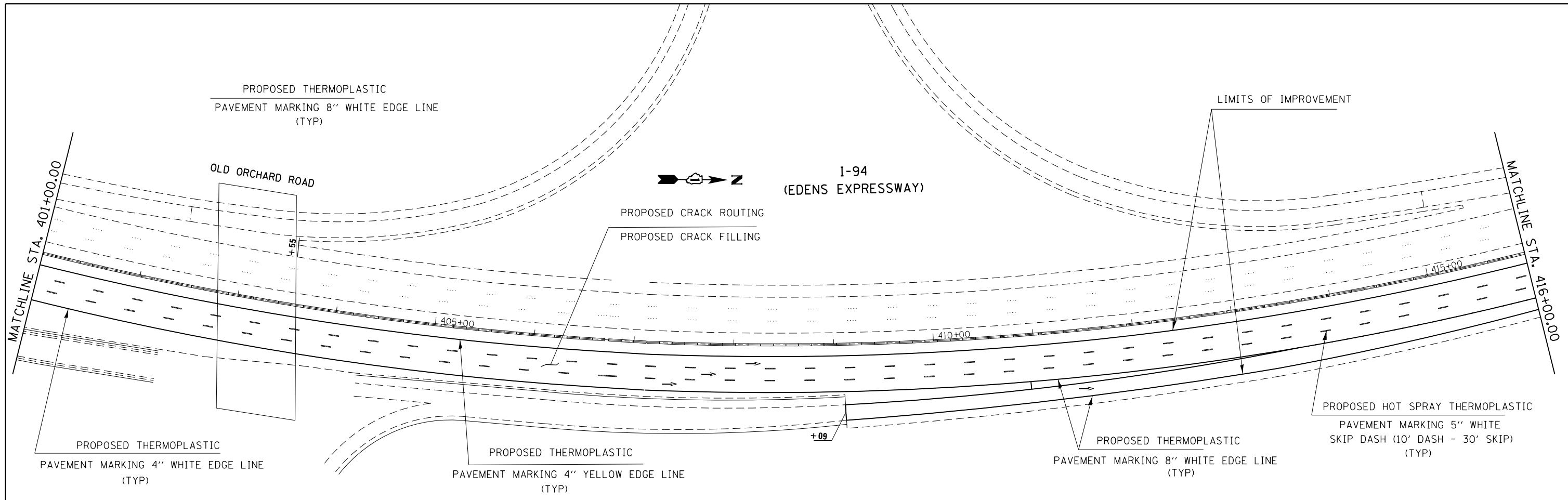
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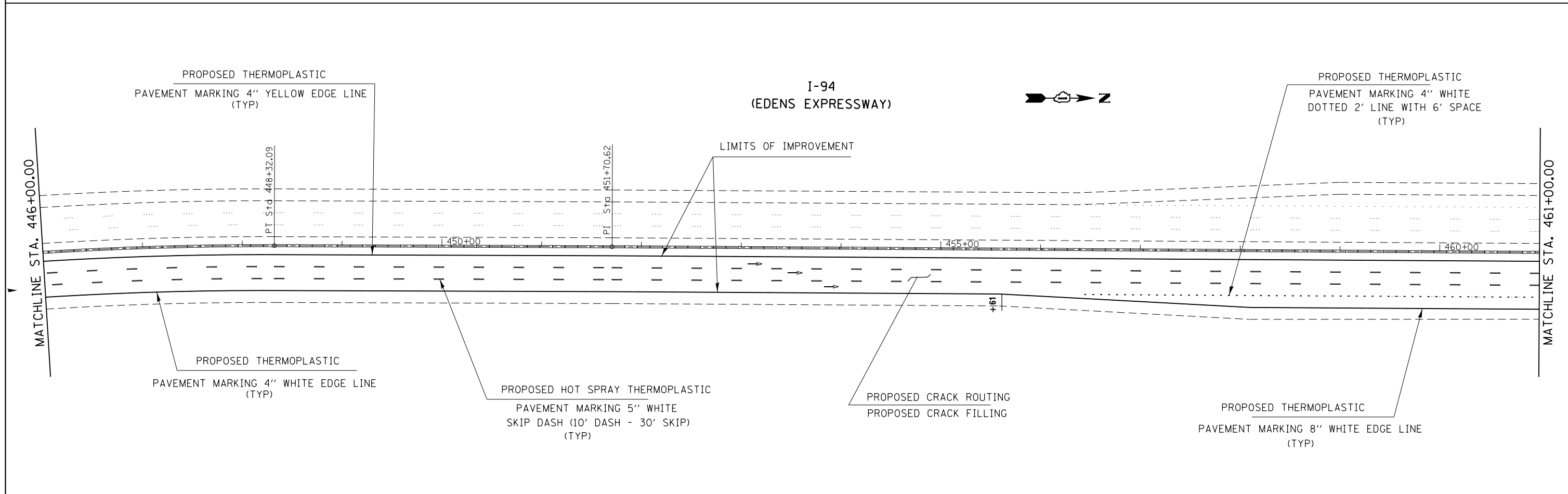
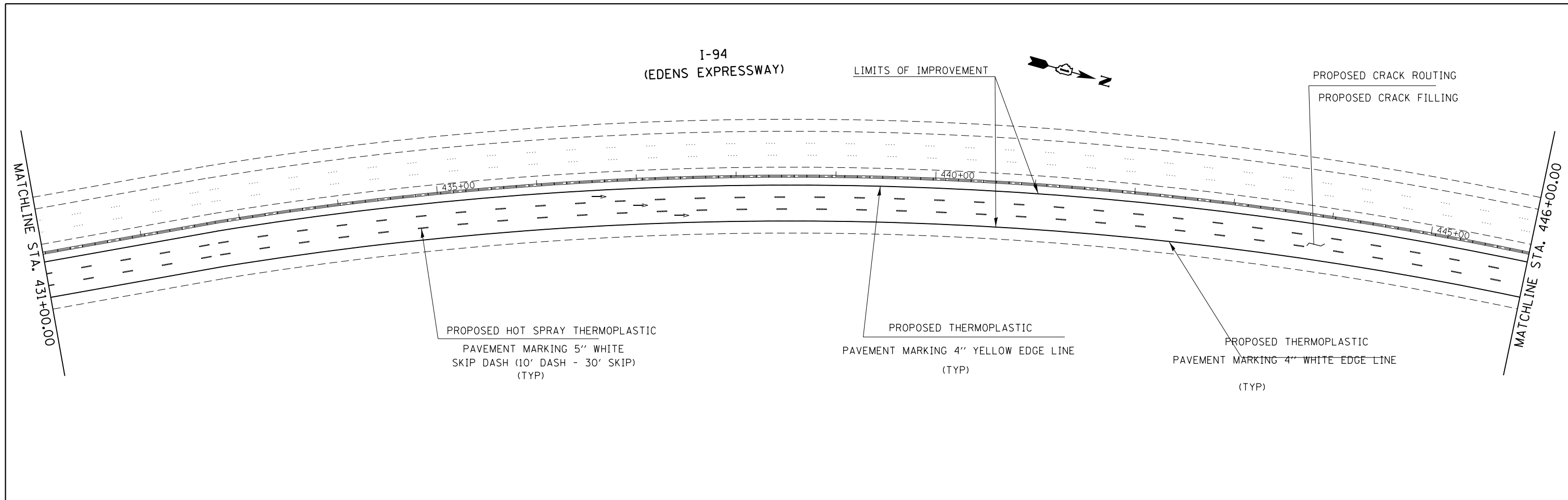
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											ILLINOIS FED. AID PROJECT CONTRACT NO. 62A79	



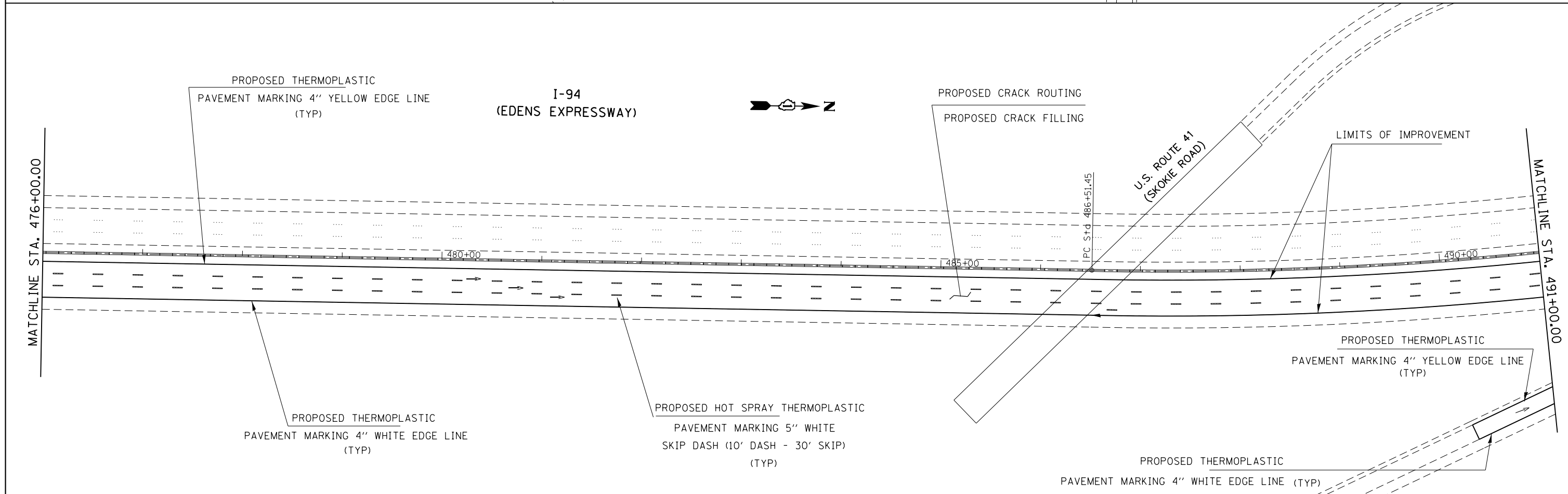
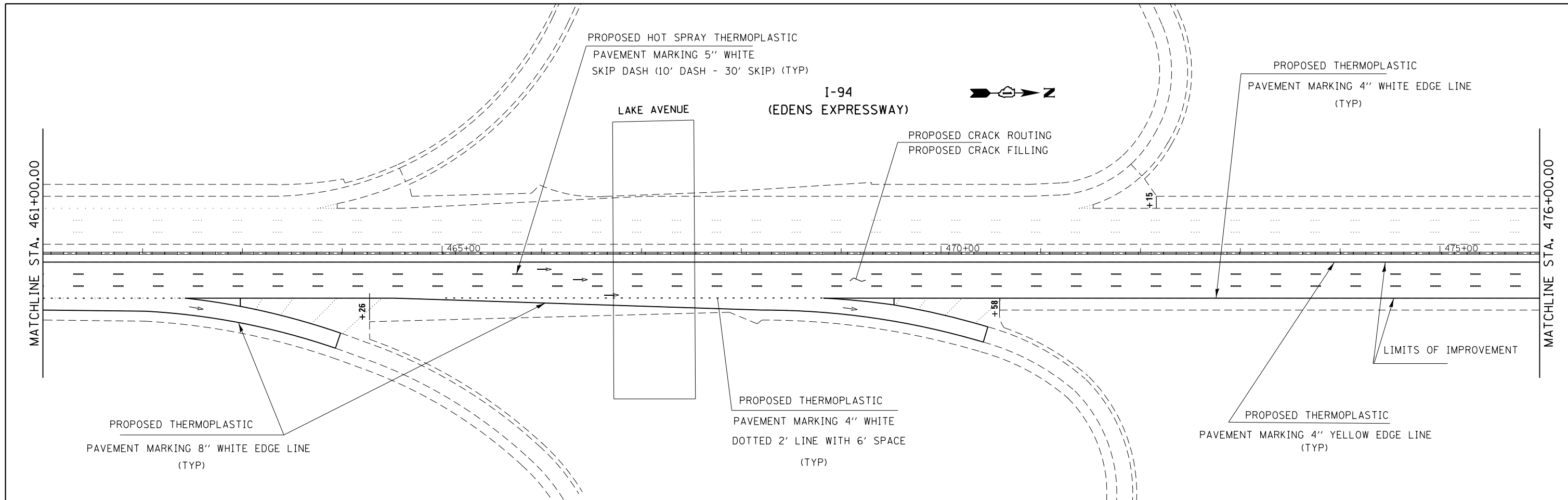
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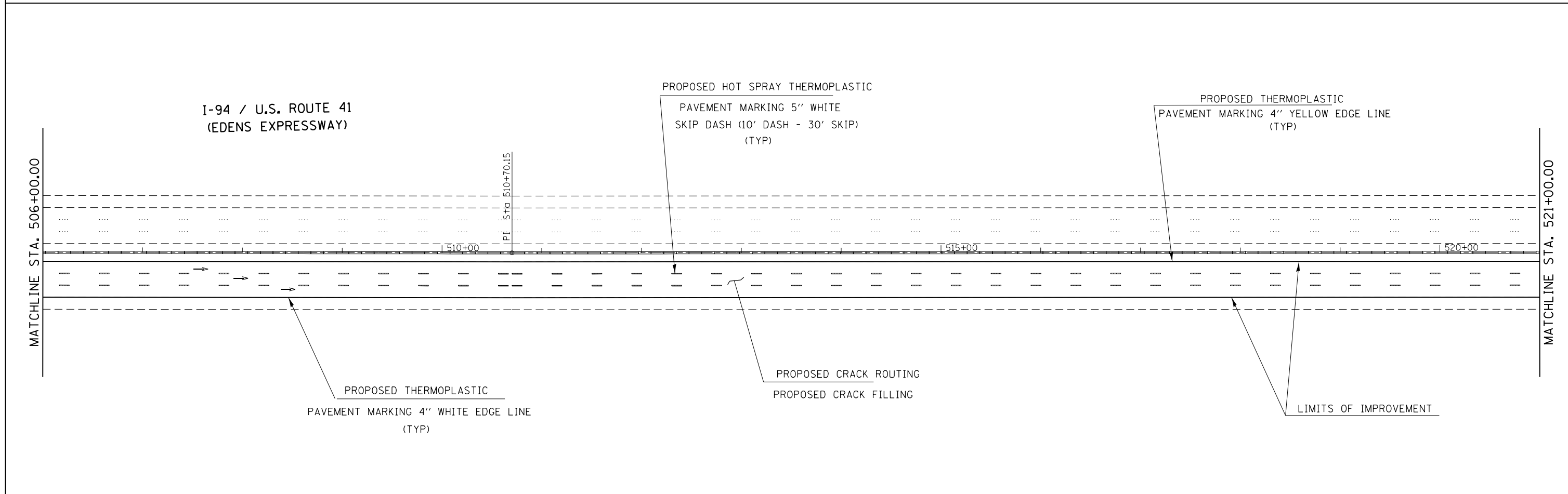
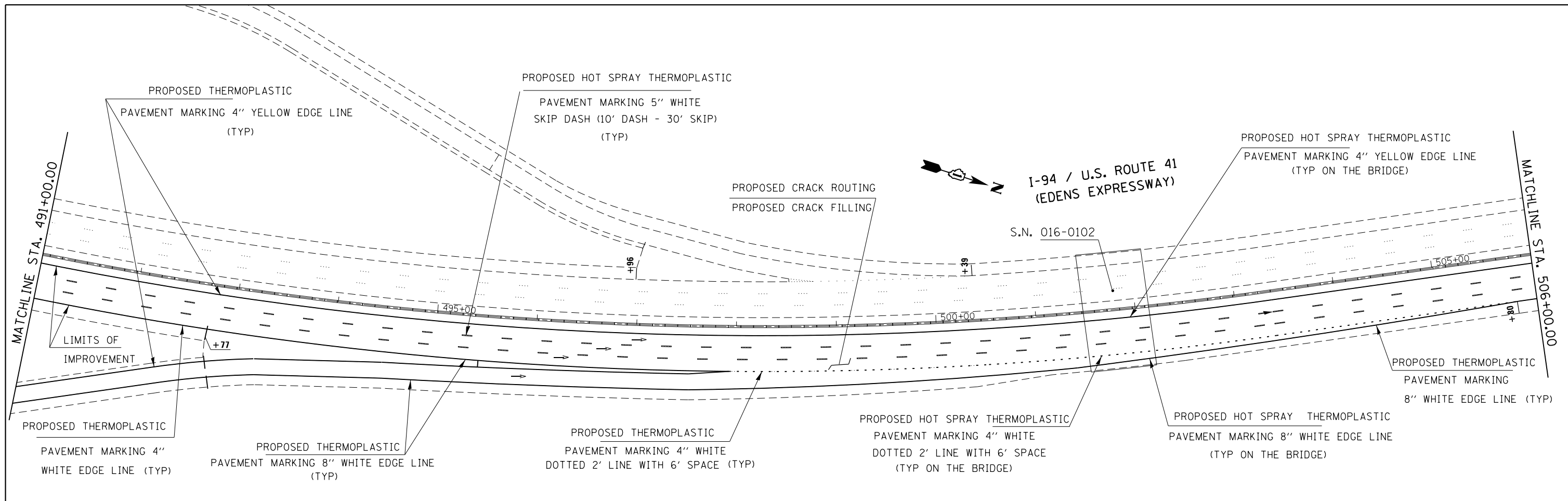
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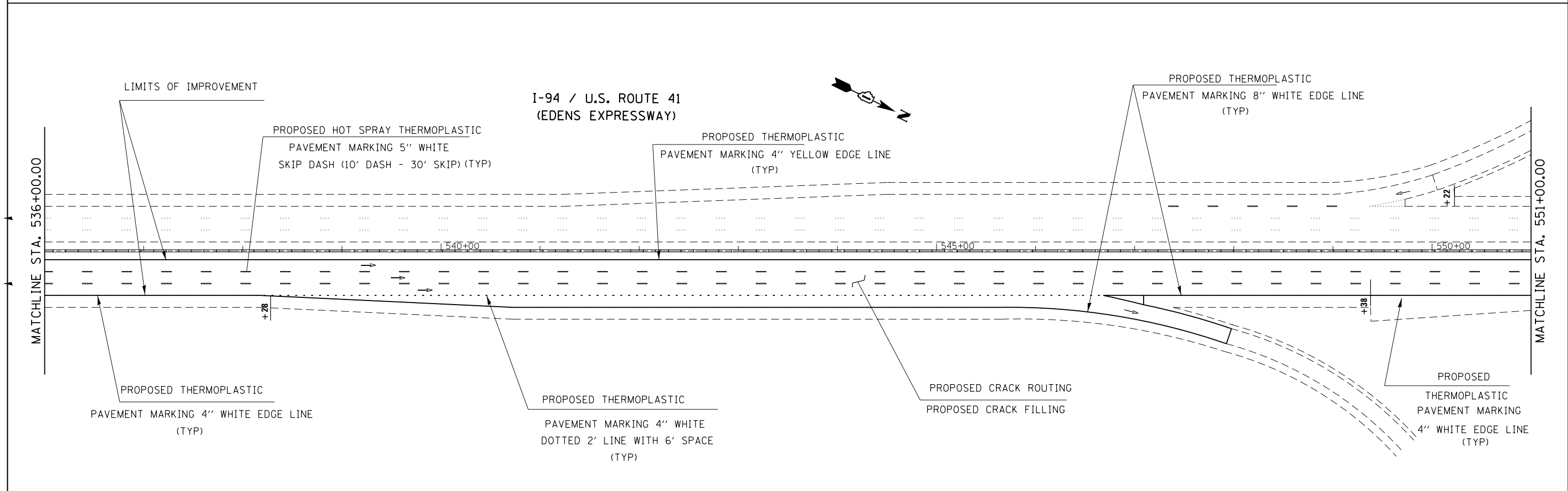
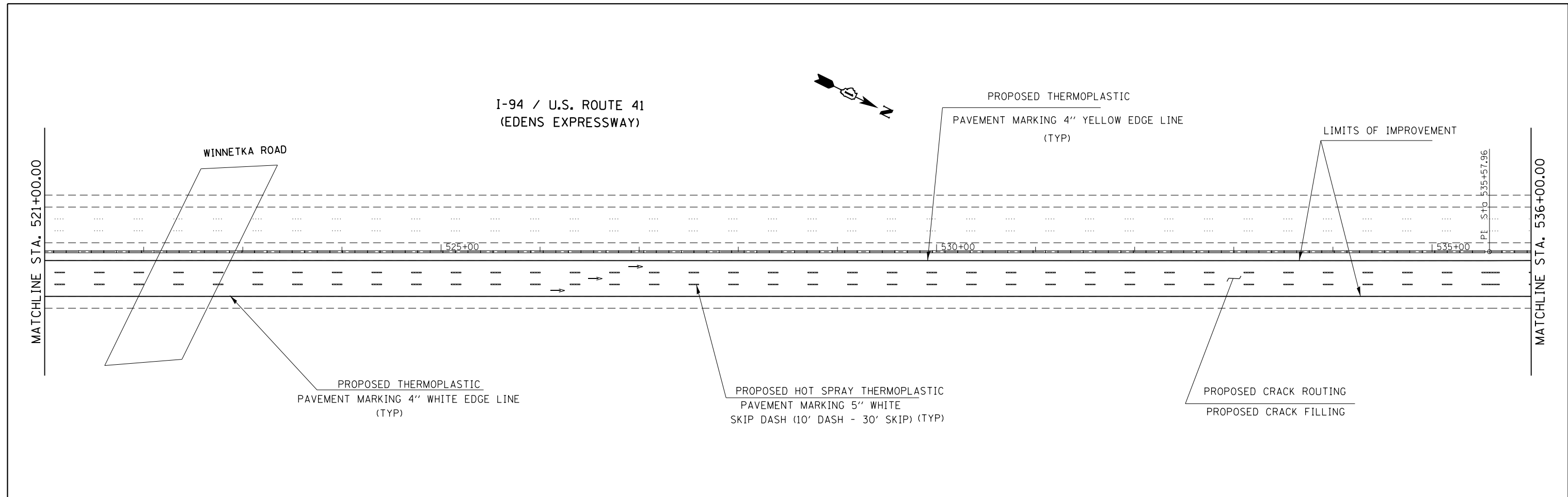
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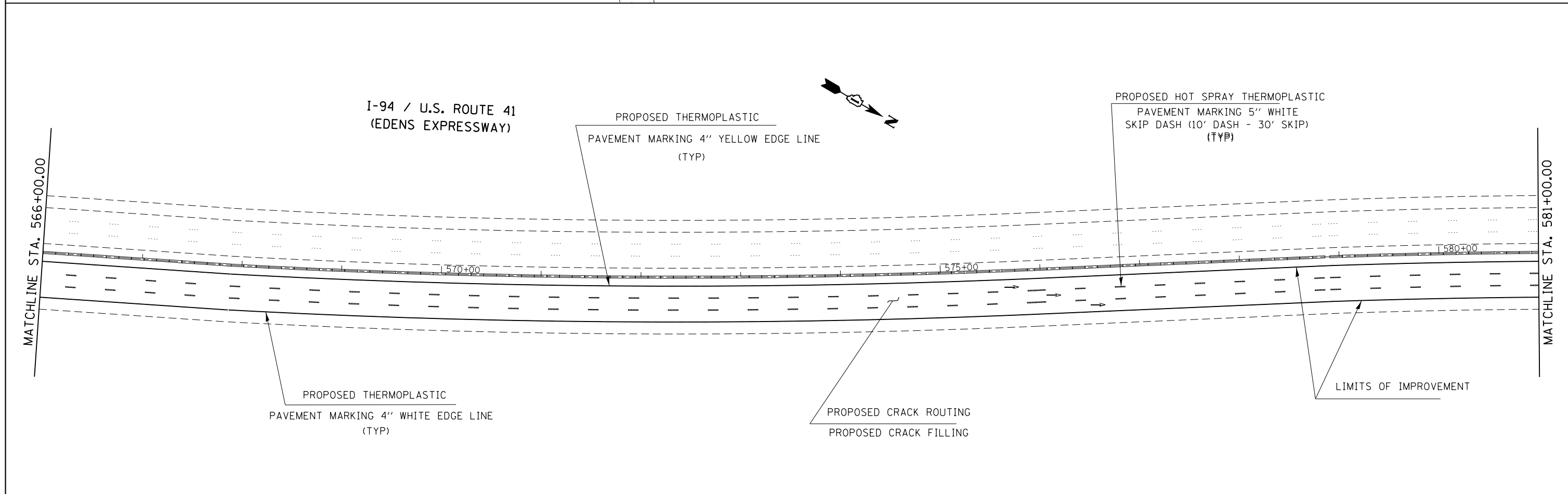
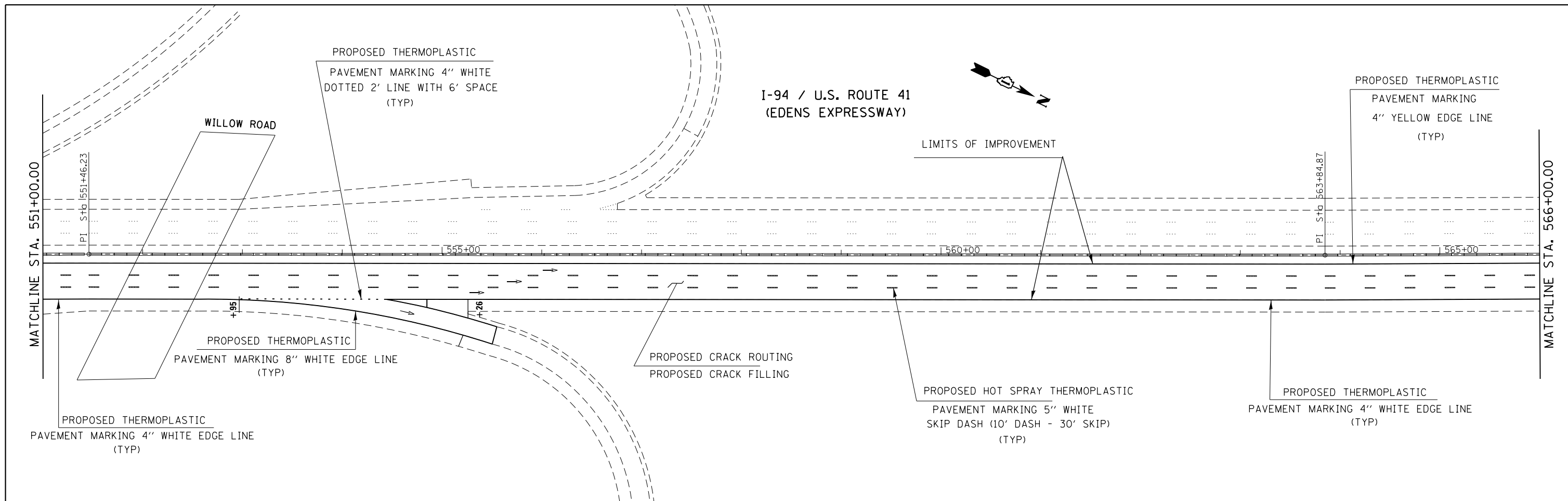
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ILLINOIS FED. AID PROJECT												

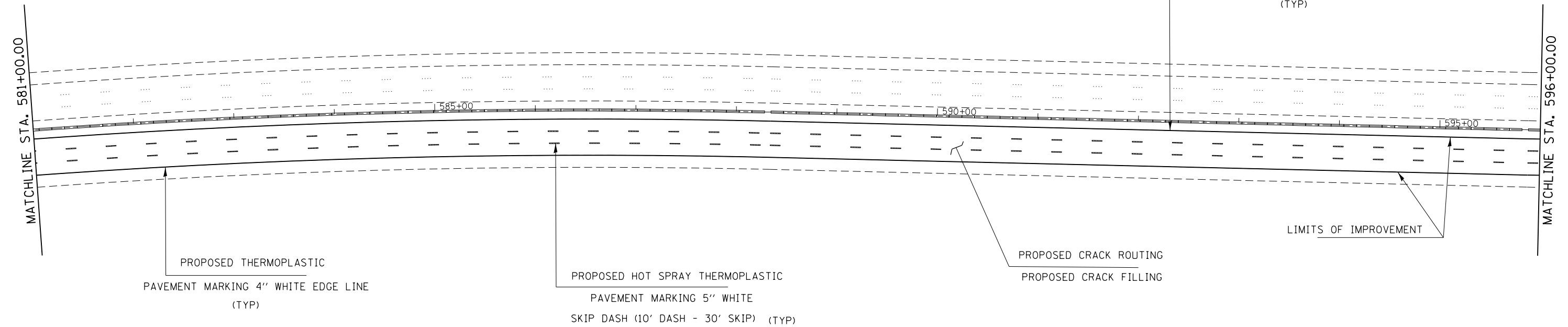


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ILLINOIS FED. AID PROJECT												

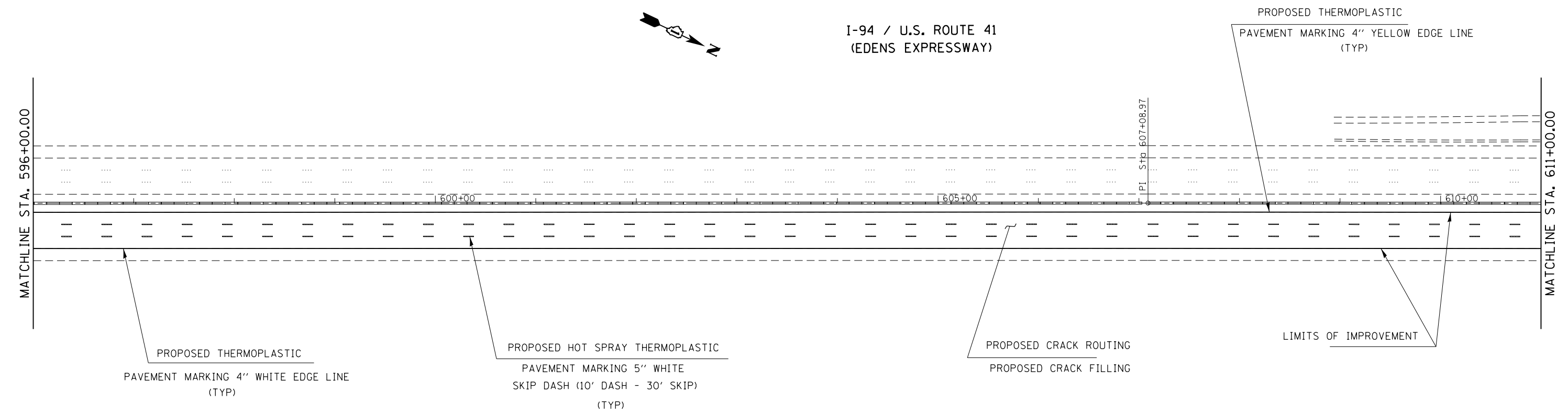


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	PLOT DATE = 4/1/2015	DATE -	REVISED -		ILLINOIS FED. AID PROJECT							

I-94 / U.S. ROUTE 41
(EDENS EXPRESSWAY)



I-94 / U.S. ROUTE 41
(EDENS EXPRESSWAY)

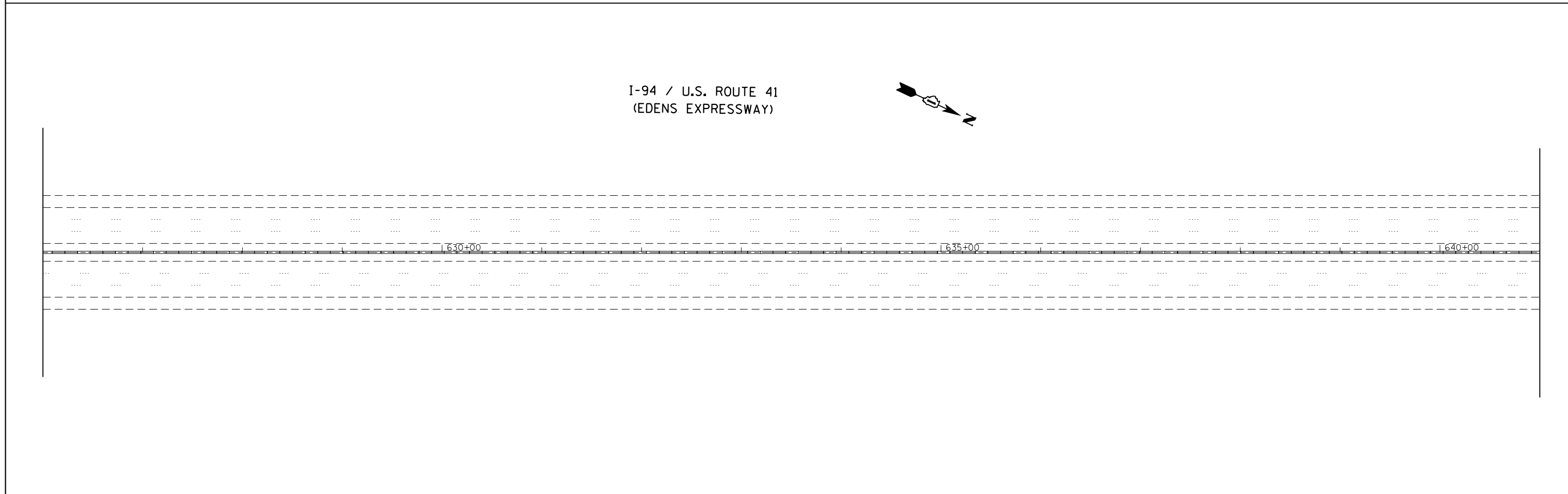
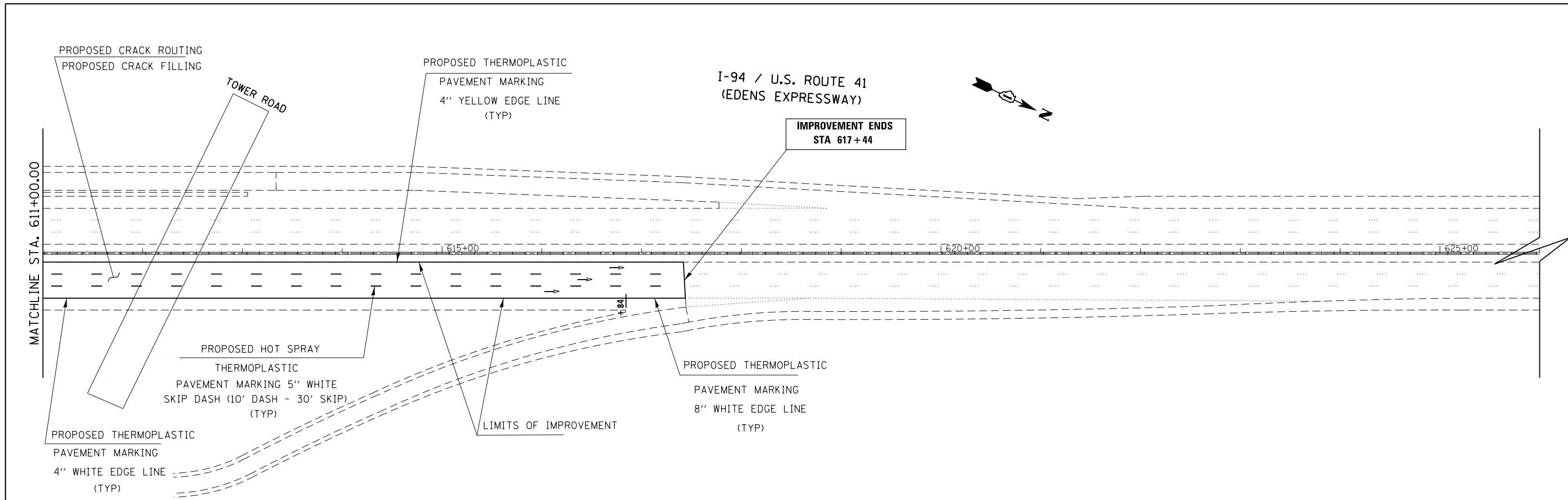


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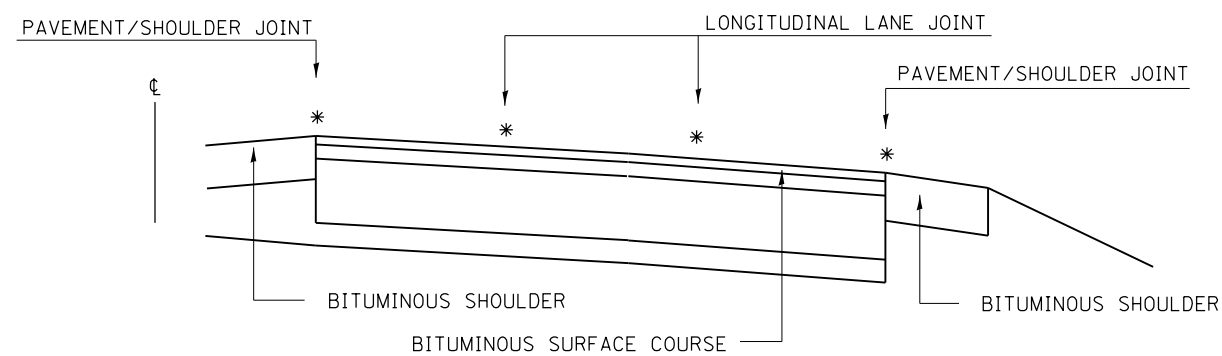
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROADWAY PLAN		F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		94	2015-0231	COOK	30	23
I-94 (LAWRENCE AVENUE TO LAKE COOK ROAD)		SCALE: 1" = 50'		SHEET OF SHEETS		STA. TO STA.

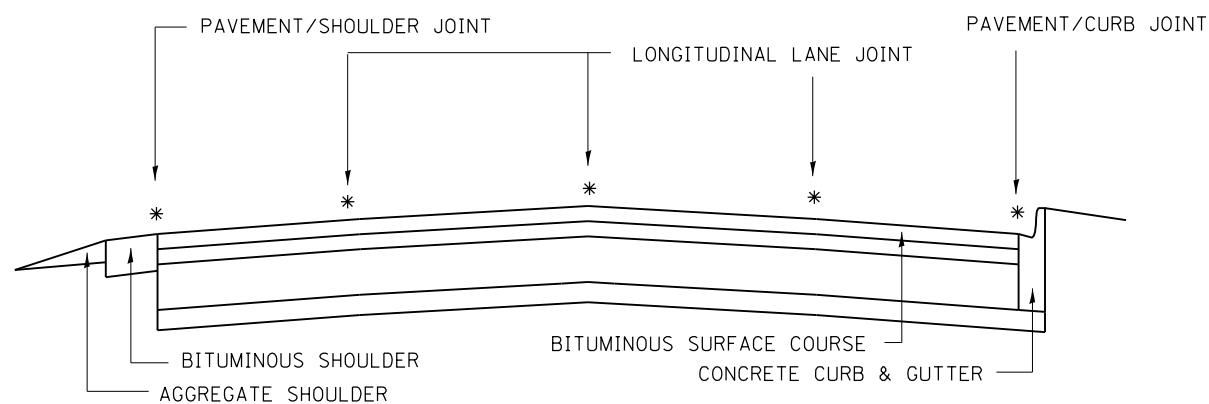
CONTRACT NO. 62A79		ILLINOIS FED. AID PROJECT	
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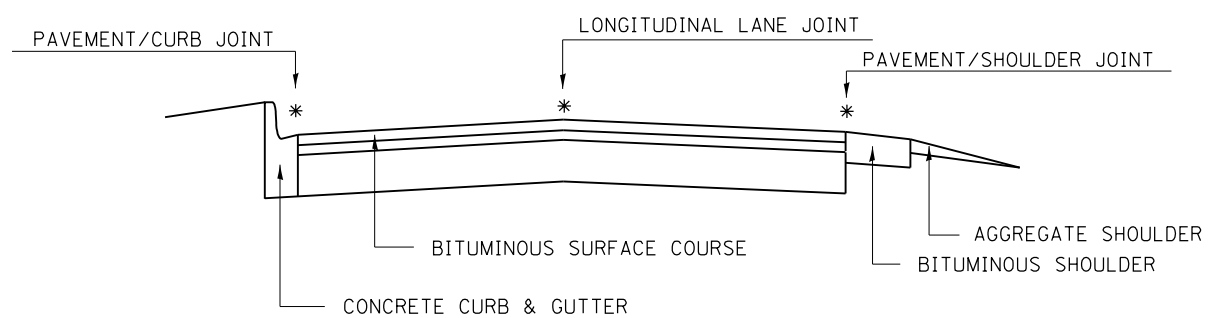
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	PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -				94	2015-0231	COOK	30	24
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MULTI-LANE DIVIDED PAVEMENT



MULTI-LANE UNDIVIDED PAVEMENT

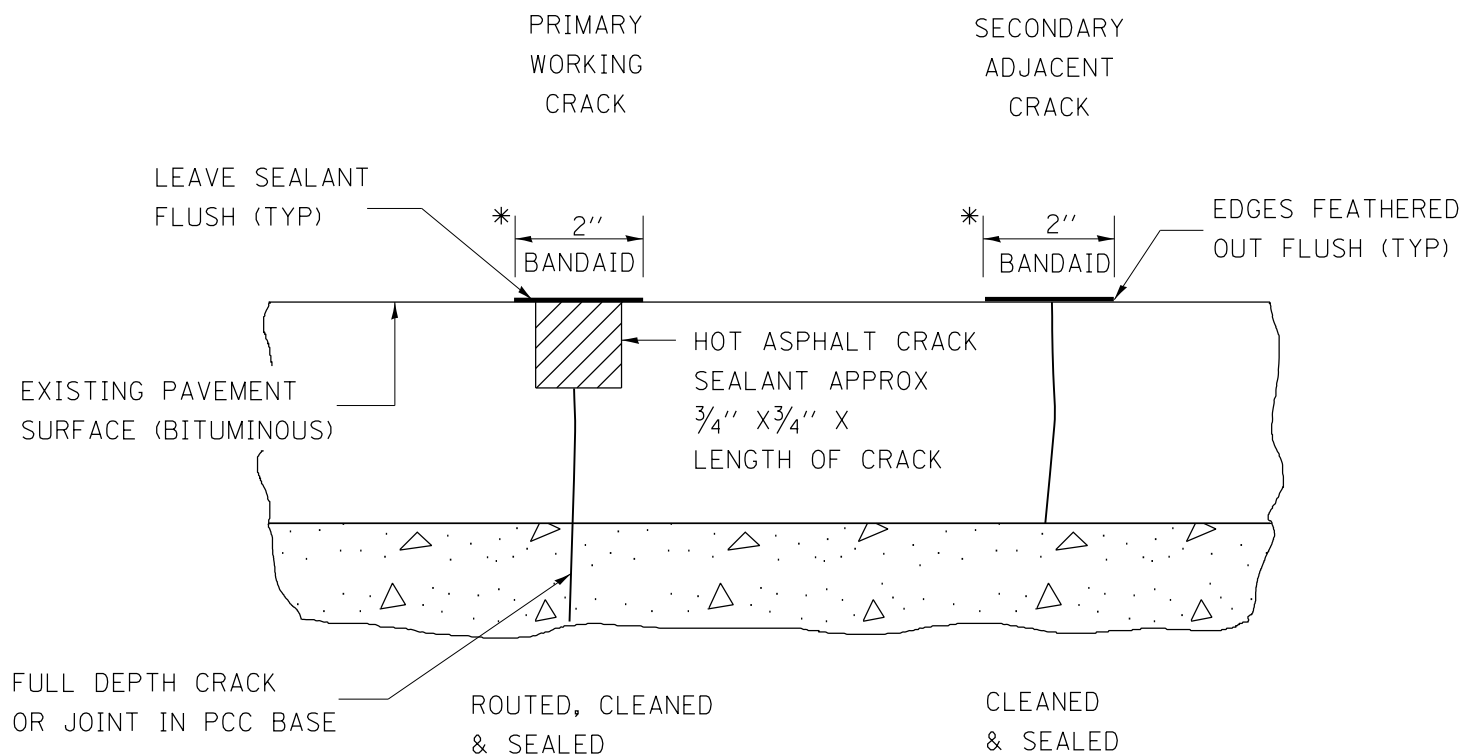


TWO-LANE PAVEMENT

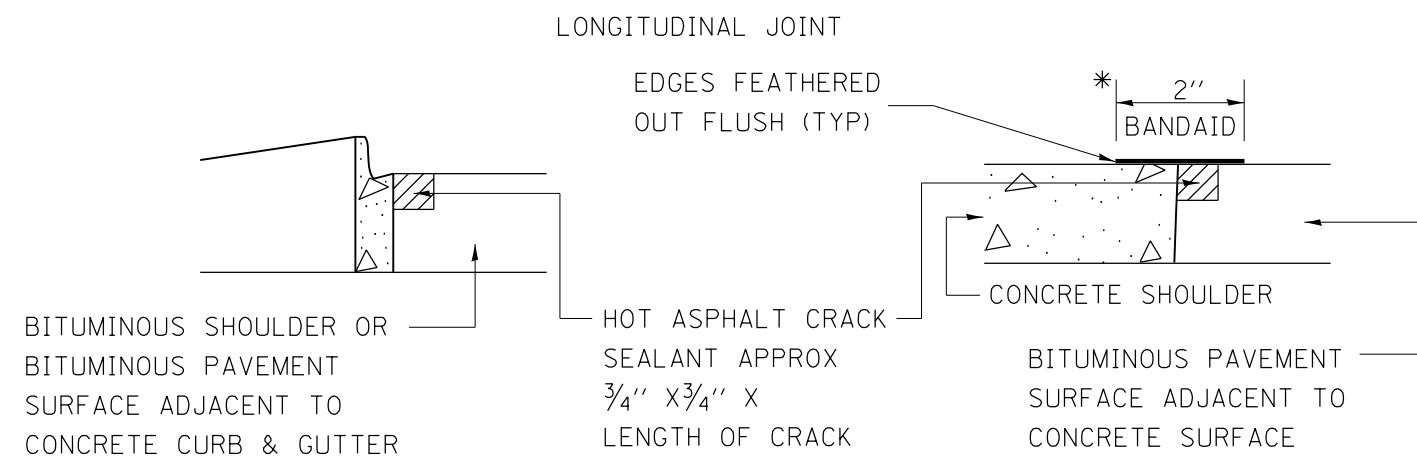
PROPOSED TRANSVERSE CRACK ROUTING (PAVEMENT) & CRACK FILLING LOCATIONS NOT SHOWN

* PROPOSED LONGITUDINAL CRACK ROUTING (PAVEMENT) & CRACK FILLING LOCATIONS

GENERAL EXISTING TYPICAL SECTIONS



* IN ALL LOCATIONS WHERE THE LONGITUDINAL CRACK CONFLICTS WITH EXISTING PAVEMENT MARKINGS (EITHER EDGE LINE OR LANE LINE) THE CRACK SHALL BE ROUTED & THE RESULTING RESERVOIR FILLED WITH SEALANT. HOWEVER, THE 2" BANDAID SEALANT STRIP SHALL BE DELETED TO PREVENT UNNECESSARY DAMAGE TO THE EXISTING PAVEMENT MARKINGS. ALL DAMAGES TO EXISTING RAISED REFLECTIVE PAVEMENT MARKERS SHALL BE REPLACED AT THE EXPENSE OF THE CONTRACTOR. ALL EXISTING PAVEMENT MARKINGS WITHIN THE PROJECT LIMITS SHALL BE RESTORED WITH HOT SPRAY THERMOPLASTIC PAVEMENT MARKINGS.



CRACK & JOINT SEALING DETAIL

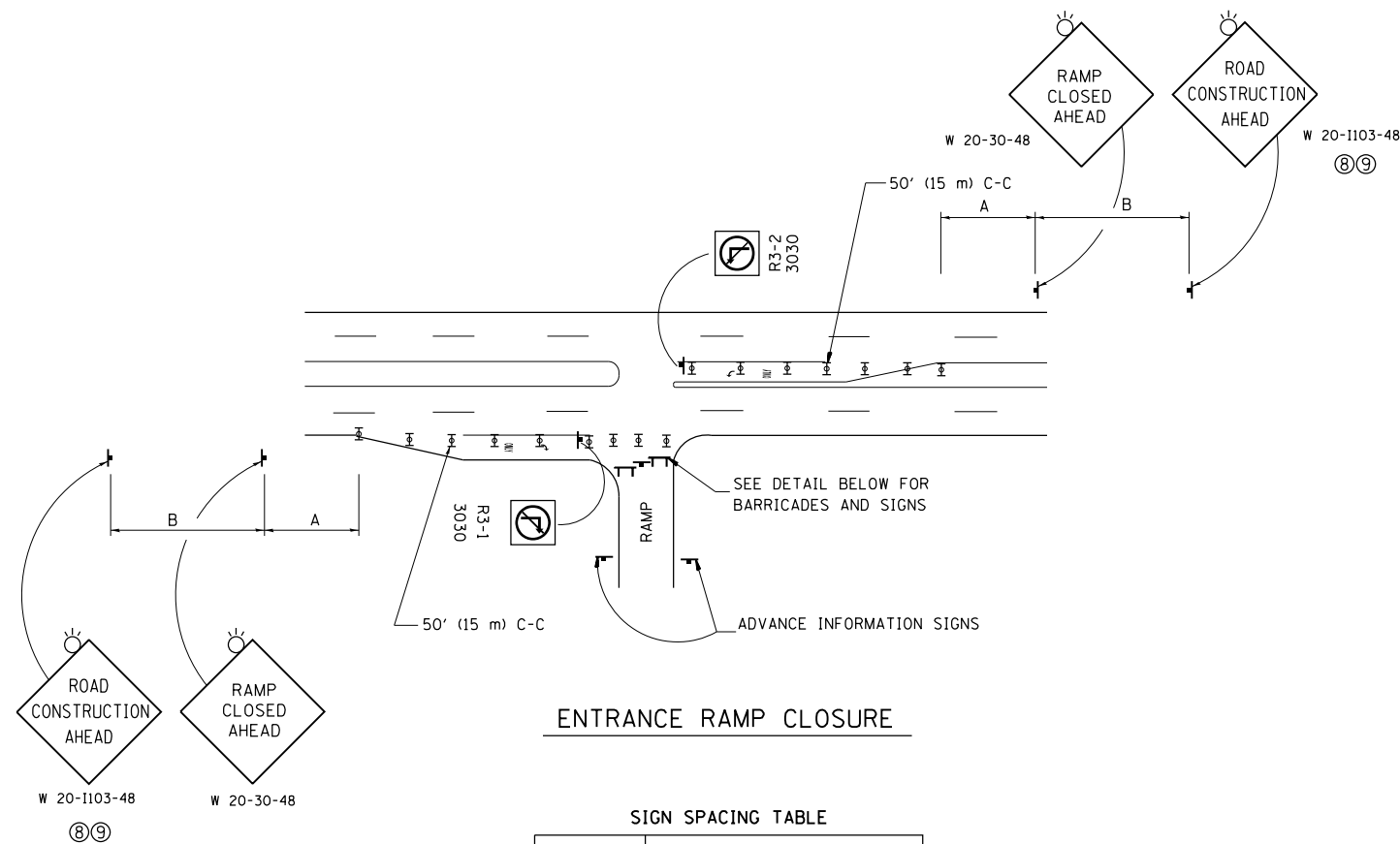
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	PLOT DATE = 4/1/2015	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

I-94 (LAWRENCE AVENUE TO LAKE COOK ROAD)
CRACK & JOINT SEALING DETAIL

SCALE: SHEET NO. OF SHEETS STA. TO STA.

F.A.I. RTÉ. 94	SECTION 2015-0231	COUNTY COOK	TOTAL SHEETS 30	SHEET NO. 25
CONTRACT NO. 62A79				ILLINOIS FED. AID PROJECT

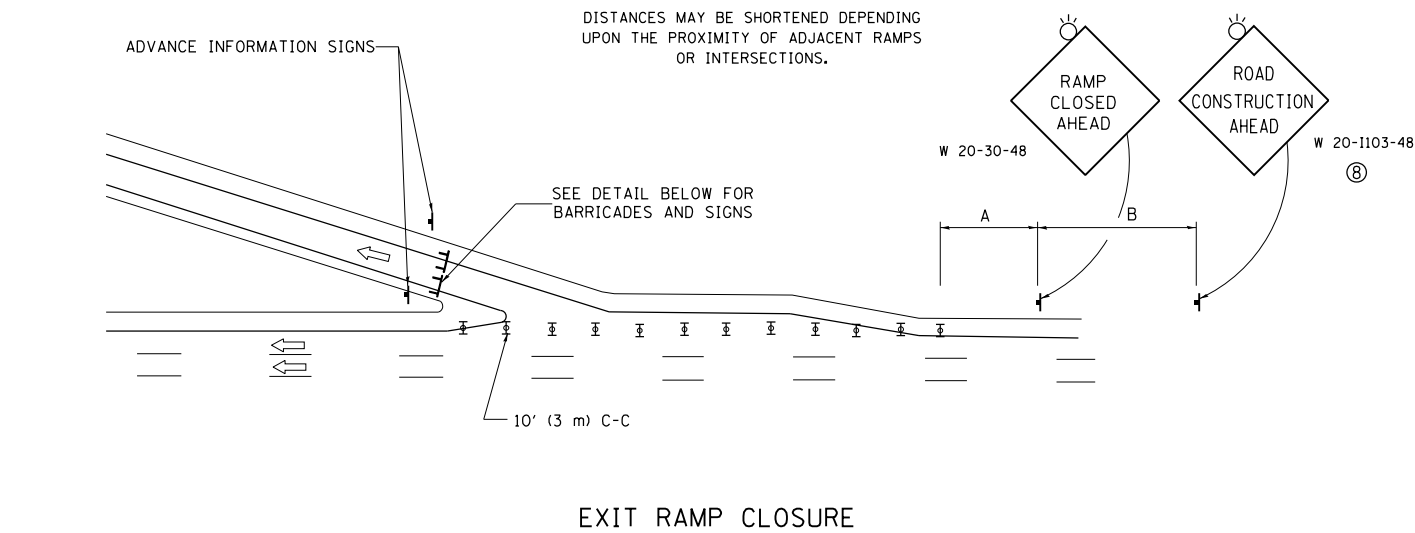


ENTRANCE RAMP CLOSURE

SIGN SPACING TABLE

FACILITY	DISTANCE BETWEEN SIGNS	
	A	B
EXPRESSWAY >24 HOURS	1000' (300 m)	1500' (450 m)
EXPRESSWAY <24 HOURS	500' (150 m)	500' (150 m)
ARTERIAL 55 MPH	500' (150 m)	500' (150 m)
ARTERIAL 50-45 MPH	350' (100 m)	350' (100 m)
ARTERIAL <45 MPH	200' (60 m)	200' (60 m)

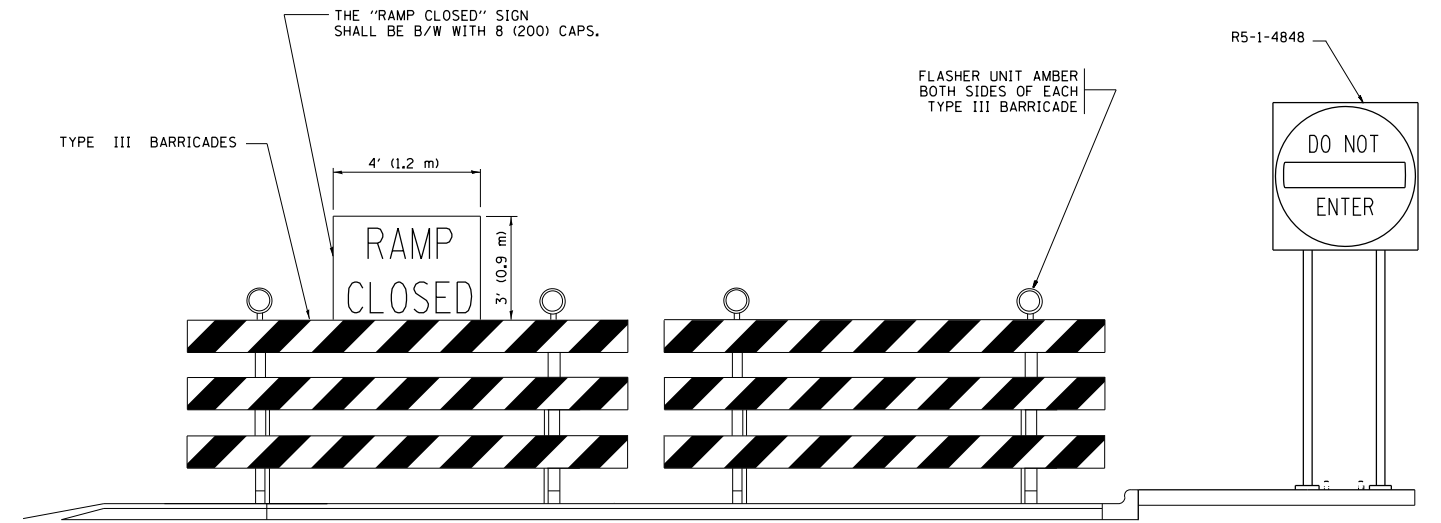
DISTANCES MAY BE SHORTENED DEPENDING UPON THE PROXIMITY OF ADJACENT RAMPS OR INTERSECTIONS.



EXIT RAMP CLOSURE

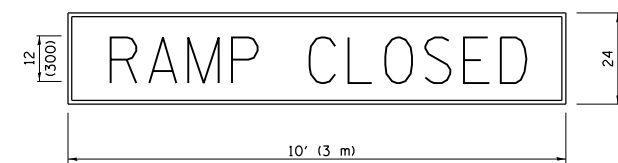
SYMBOLS

- ⊥ TYPE II BARRICADE OR DRUM WITH STEADY BURN MONO-DIRECTIONAL LIGHT
- ⊓ TYPE III BARRICADE WITH 2 FLASHING LIGHTS



DETAIL FOR REQUIRED BARRICADES & SIGNS

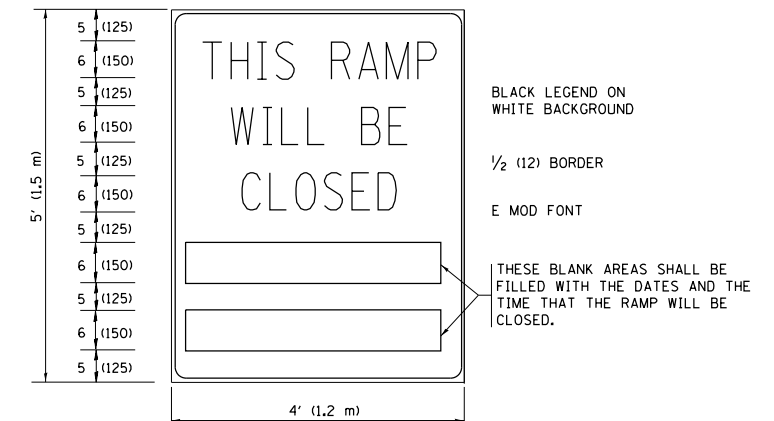
RAMP CLOSURE ADVANCE WARNING SIGN



BLACK LEGEND ON ORANGE BACKGROUND MOUNTED DIAGONALLY
E MOD FONT
1 (25) BORDER

THESE SIGNS ARE REQUIRED ON ALL THE EXIT GUIDE SIGNS FOR EXIT RAMPS THAT WILL BE CLOSED FOR MORE THAN FOUR (4) CONSECUTIVE DAYS.

RAMP CLOSURE ADVANCE INFORMATION SIGN



BLACK LEGEND ON WHITE BACKGROUND

1/2 (12) BORDER

E MOD FONT

THESE BLANK AREAS SHALL BE FILLED WITH THE DATES AND THE TIME THAT THE RAMP WILL BE CLOSED.

THESE SIGNS ARE REQUIRED ON BOTH SIDES OF THE RAMP, MINIMUM OF 1 WEEK IN ADVANCE OF THE CLOSURE.

THESE SIGNS SHALL BE FABRICATED AND PAID FOR ACCORDING TO THE TEMPORARY INFORMATION SIGNING SPECIAL PROVISION

GENERAL NOTES:

- ① CONES MAY BE SUBSTITUTED FOR DRUMS OR TYPE II BARRICADES DURING DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 28 (700) HIGH.
- ② STEADY BURN LIGHTS WILL NOT BE REQUIRED FOR DAY OPERATIONS.
- ③ A FLAGGER SHALL BE POSITIONED AT EACH CLOSED RAMP THAT IS OPEN TO CONSTRUCTION VEHICLES, PRECEDED BY A W20-7 FLAGGER WARNING SIGN.
- ④ ALL ROUTE MARKERS AND TRAILBLAZER ASSEMBLIES WHICH DIRECT MOTORISTS TO A CLOSED ENTRANCE RAMP SHALL BE COVERED WHEN THE RAMP IS CLOSED FOR MORE THAN FOUR (4) DAYS.
- ⑤ THE SIGNING AND BARRICADING WHICH IS REQUIRED BY THIS DETAIL SHALL BE INCLUDED IN THE COST OF TRAFFIC CONTROL AND PROTECTION (EXPRESSWAYS).
- ⑥ AUTHORIZATION FROM THE DISTRICT'S BUREAU OF TRAFFIC IS REQUIRED FOR ALL RAMP CLOSURES.
- ⑦ THE RAMP CLOSURE ADVANCE INFORMATION SIGNS SHALL BE ERECTED IF THE CLOSURE TIME EXCEEDS TWENTY-FOUR (24) HOURS. ADDITIONAL ADVANCE WARNING SIGNS ON EXIT GUIDE SIGNING WILL BE REQUIRED FOR EXIT RAMP CLOSURES THAT EXCEED FOUR (4) DAYS IN LENGTH.
- ⑧ ROAD CONSTRUCTION AHEAD SIGNS MAY BE OMITTED WHEN THIS DETAIL IS USED IN CONJUNCTION WITH OTHER TRAFFIC CONTROL THAT ALREADY INCLUDES A ROAD CONSTRUCTION AHEAD SIGN.
- ⑨ ARTERIAL ROAD CONSTRUCTION AHEAD SIGNS SHALL BE INSTALLED ON THE LEFT SIDE OF TRAFFIC IF THE MEDIAN IS MORE THAN 10 FT WIDE.

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

FILE NAME =	USER NAME = Gorengautab	DESIGNED - DWS	REVISED - JAF 02-06
et:\pwork\pwork\gorengautab\d0430014\DistStd.dgn		DRAWN -	REVISED - SPB 01-07
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	PLOT DATE = 4/1/2015	DATE - 02-83	REVISED - MD 06-13

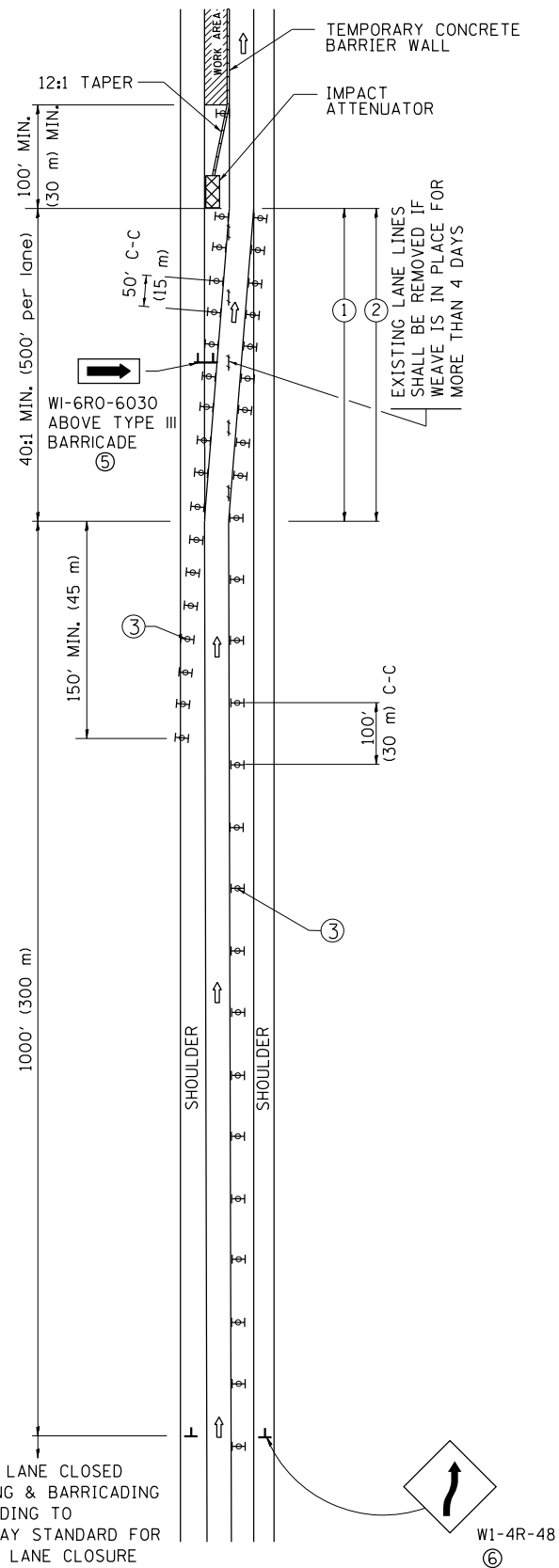
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**ENTRANCE AND EXIT RAMP
CLOSURE DETAILS**

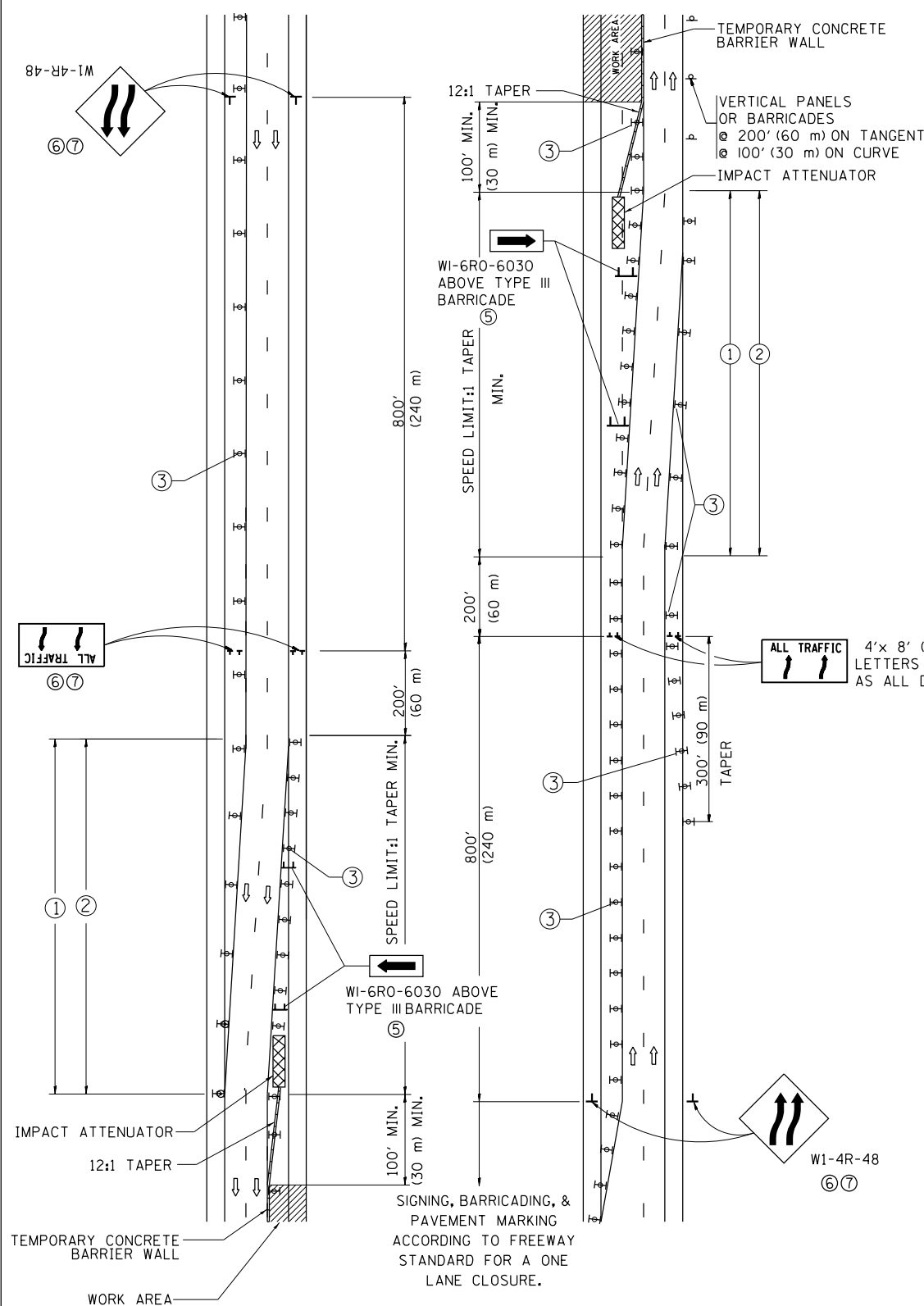
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	2015-0231	COOK	30	26
TC-08		CONTRACT NO. 62A79		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

SINGLE LANE WEAVE



MULTI-LANE WEAVE



GENERAL NOTES

- EXISTING CONFLICTING PAVEMENT MARKING LINES SHALL BE REMOVED. PAVEMENT MARKING REMOVAL SHALL NOT BE REQUIRED FOR SINGLE LANE WEAVES UNDER 4 DAYS IN DURATION.
- CONTINUOUS REFLECTIVE TEMPORARY PAVEMENT MARKING TAPE SHALL BE PLACED THROUGHOUT THE TAPER AND FOR 300' (90 m) ALONG SIDE THE WORK AREA WHERE THE CLOSURE TIME IS GREATER THAN FOURTEEN DAYS. THE LEFT EDGE LINE SHALL BE YELLOW AND THE RIGHT EDGE LINE SHALL BE WHITE. FOR MULTI-LANE WEAVES LANE LINES SHALL BE 5 INCH, 10'-30' (3 m-9 m) SKIP DASH, WHITE.
- PLASTIC DRUMS WITH STEADY BURN LIGHTS AT 50' (15 m) C-C SPACING IN TAPERS AND 100' (30 m) C-C SPACING IN TANGENTS.
- ALL SIGNS SHALL BE POST MOUNTED IF THE CLOSURE TIME EXCEEDS FOUR DAYS.
- TYPE III BARRICADES MAY BE OMITTED FOR SINGLE-LANE WEAVES UNDER 24-HOURS IN DURATION. W1-6 SIGNS WILL STILL BE REQUIRED. IF THE WIDTH OF OFFSET IS LESS THAN 6' THEN THE TYPE III BARRICADE WITH ATTACHED ARROW SIGN PANEL CAN BE ELIMINATED IN THE TAPER AREAS.
- WHEN THE LENGTH OF THE SHIFTED SEGMENT (DISTANCE BETWEEN WEAVE POINTS) IS LESS THAN 1500', DOUBLE REVERSE CURVE SIGNS (W24-1) SHOULD BE USED INSTEAD OF THE REVERSE CURVE (W1-4) SIGNS. ARROWS ON THE 4'X8' "ALL TRAFFIC" SIGNS SHALL BE THE SAME SHAPE.
- THE NUMBER OF ARROWS ON THESE SIGNS SHALL MATCH THE NUMBER OF LANES OPEN TO TRAFFIC.

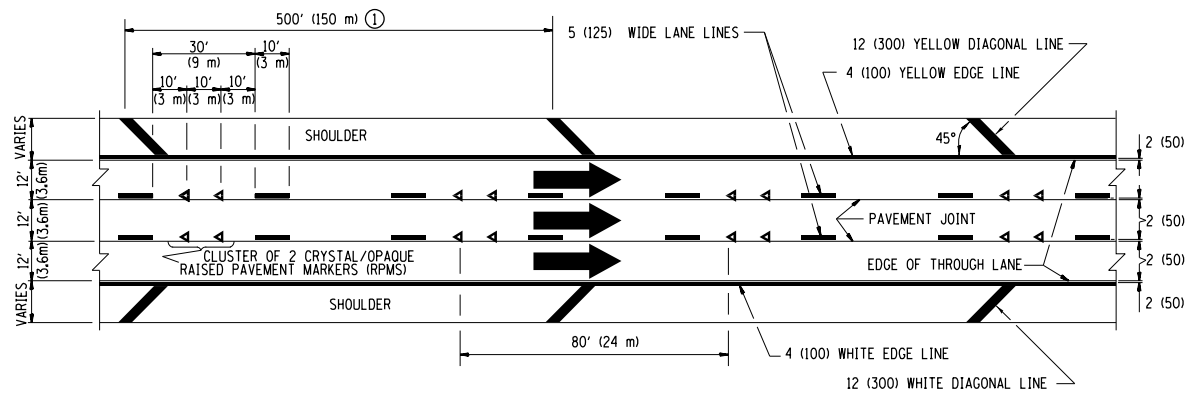
ALL TRAFFIC 4'x 8' (1.2 m x 2.4 m); 1 (25) BORDER; 10 (250) CAPITAL LETTERS BACKGROUND SHEETING SHALL BE THE SAME AS ALL DIAMOND SHAPED CONSTRUCTION SIGNS.

SYMBOLS

- DIRECTION OF TRAFFIC
- WORK AREA
- SIGN ON PORTABLE OR PERMANENT SUPPORT
- TYPE II BARRICADE OR DRUM WITH MONO-DIRECTIONAL STEADY BURNING LIGHT
- TEMPORARY CONCRETE BARRIER WALL
- IMPACT ATTENUATOR
- W1-4R-48 (6)
- W24-1-48 (7)

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN

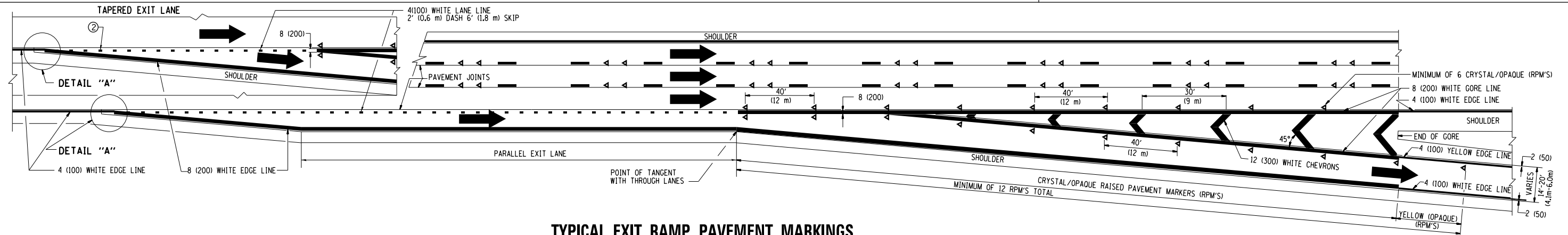
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PLOT SCALE = 100.0000' / 1in.		CHECKED -	REVISED - SPB 12-09		TC-09		CONTRACT NO. 62A79					
PLOT DATE = 4/1/2015		DATE - 02-87	REVISED - MD 06-13		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.	FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			



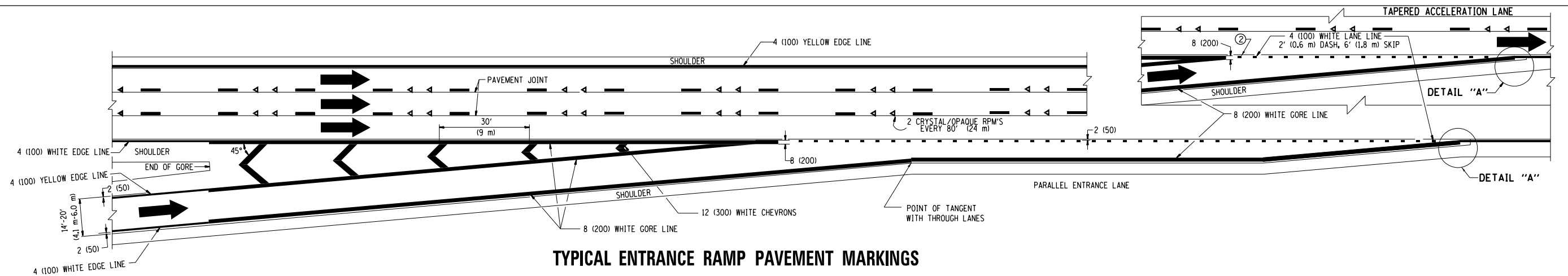
TYPICAL EDGE LINES & LANE LINES

PAVEMENT MARKING MATERIALS

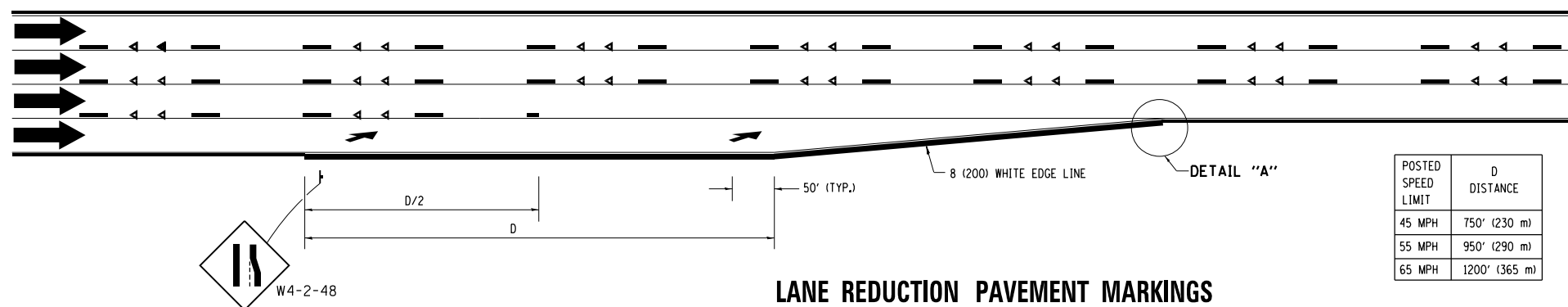
1. THERMO PLASTIC PAVEMENT MARKING LINE SHALL BE USED FOR THE EDGE LINES, GORE LINES, AND DIAGONAL LINES ON BITUMINOUS PAVEMENT ONLY.
2. PREFORMED PLASTIC TYPE B PAVEMENT MARKING LINE; INLAID OR GROOVED IN SHALL BE USED FOR ALL LANE LINES ON HMA PAVEMENT PROJECTS.
3. POLYUREA PAVEMENT MARKING SHALL BE USED FOR ALL MARKINGS ON PCC PROJECTS.



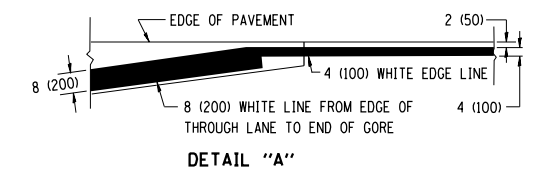
TYPICAL EXIT RAMP PAVEMENT MARKINGS



TYPICAL ENTRANCE RAMP PAVEMENT MARKINGS



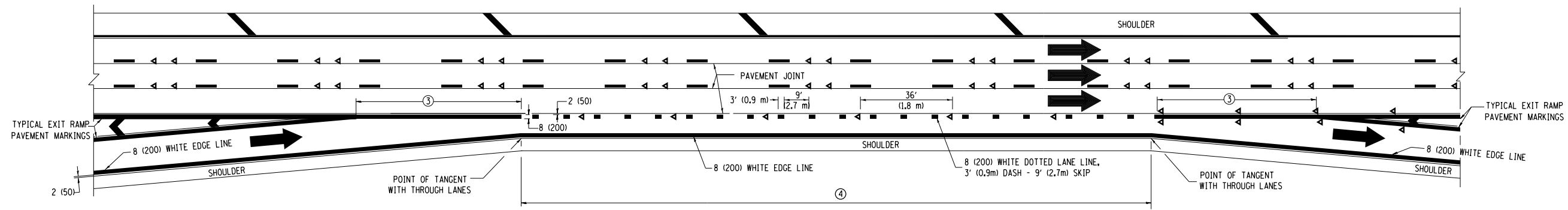
LANE REDUCTION PAVEMENT MARKINGS



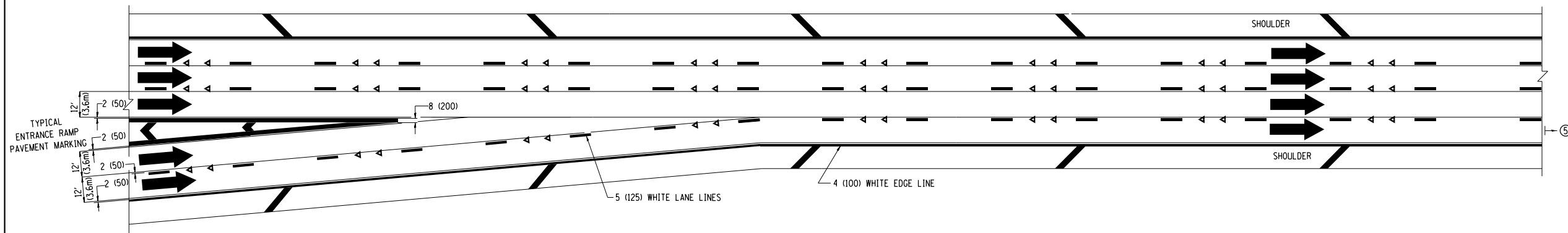
NOTES:

- ① THE DIAGONAL LINES SHALL BE SPACED AT 40' (12 m) C-C ACROSS ALL STRUCTURES WHICH ARE 500' (150 m) OR LESS IN LENGTH. THE DIAGONAL LINES ARE NOT REQUIRED ON SHOULDERS WHICH ARE 6' (1.8 m) OR LESS IN WIDTH.
- ② 4" (2' DASH, 6' SKIP) MARKING ON TAPERED ENTRANCE AND EXIT RAMP SHALL BE OMITTED ON TANGENT SECTIONS.

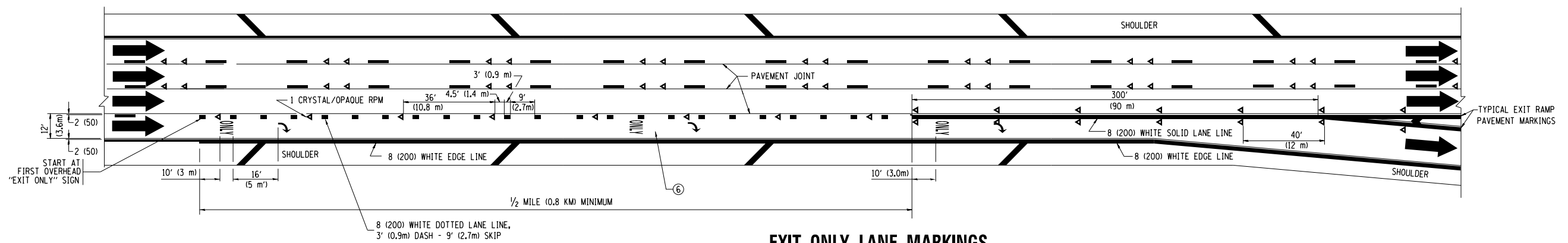
POSTED SPEED LIMIT	D DISTANCE
45 MPH	750' (230 m)
55 MPH	950' (290 m)
65 MPH	1200' (365 m)



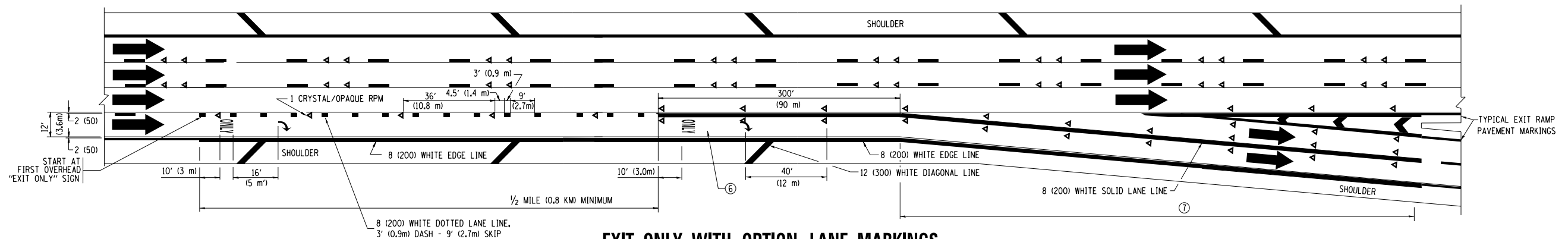
AUXILIARY LANE MARKINGS



TWO LANE ENTRANCE RAMP WITH MERGE MARKINGS



EXIT ONLY LANE MARKINGS



EXIT ONLY WITH OPTION LANE MARKINGS

- NOTES**
- ③ OMIT WHEN LENGTH OF AUXILIARY LANE IS LESS THAN 500' (150 m).
 - ④ 8-INCH WIDE DOTTED LANE LINE MARKINGS SHALL BE USED WHEN THE LENGTH OF THE AUXILIARY LANE IS 2 MILES OR LESS.
 - ⑤ FOR TWO-LANE ENTRANCE RAMP, IF RIGHT LANE ENDS, USE TYPICAL ENTRANCE RAMP PAVEMENT MARKINGS.
 - ⑥ ONLY AND ARROWS EQUALLY SPACED, 500' (150 m) MAXIMUM SPACING. FULL SIZE LETTERS AND ARROW SHALL BE USED.
 - ⑦ CONTINUE 8" SOLID LANE LINE THROUGH EXIT TO END OF PAVED GORE.

FILE NAME =	USER NAME = Gorengautab	DESIGNED - D.W.S.	REVISED - D.W.S. 07-96
ei:\pwork\pwork\d0430014\1stStd.dgn		DRAWN -	REVISED - J.A.F. 02-06
	PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED - S.P.B. 01-07
	PLOT DATE = 4/1/2015	DATE - 01-90	REVISED - S.P.B. 01-10

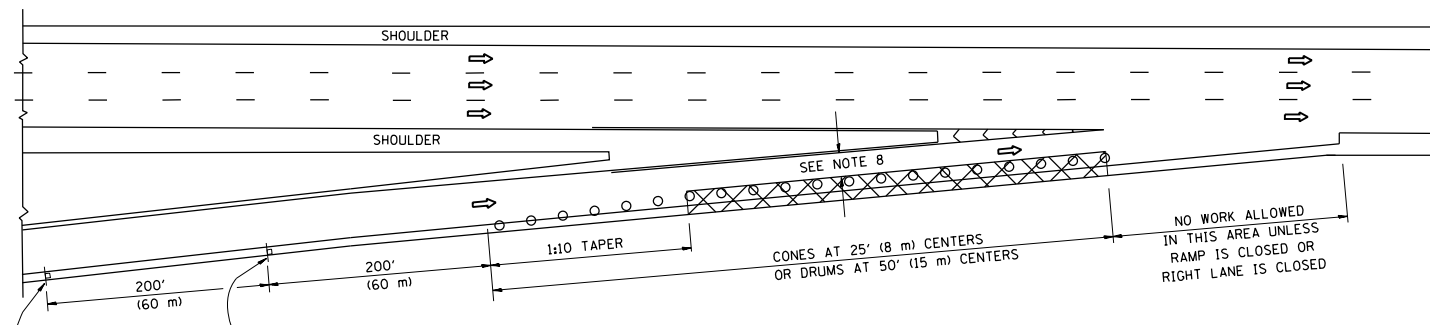
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

MULTI-LANE FREEWAY PAVEMENT MARKING DETAILS			
SCALE: NONE	SHEET NO. 2 OF 2 SHEETS	STA.	TO STA.

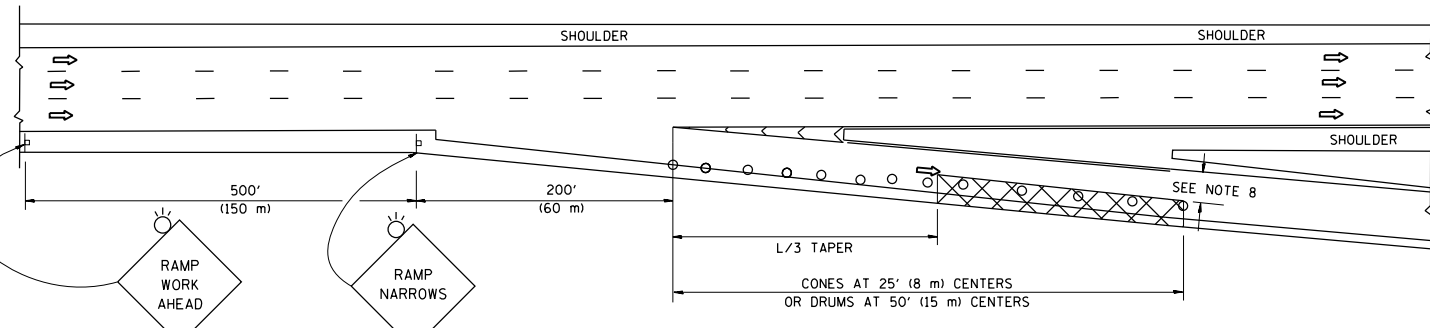
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	2015-023I	COOK	30	29
TC-12		CONTRACT NO. 62A79		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

PARTIAL RAMP CLOSURE DETAILS

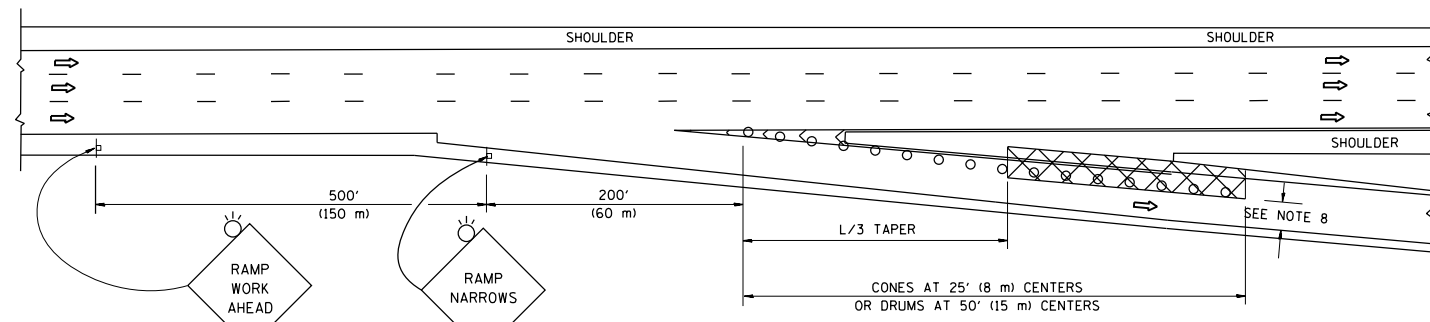
SHOULDER CLOSURE DETAILS



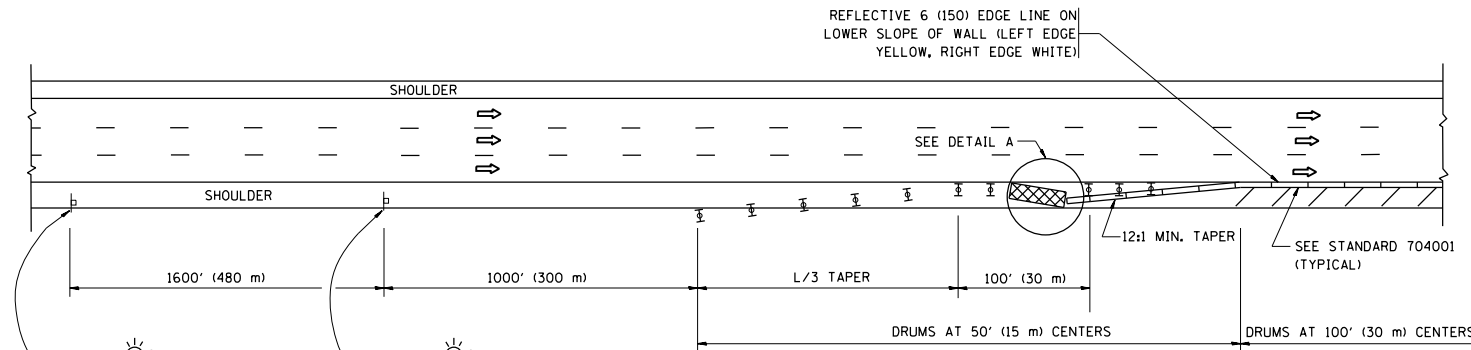
TYPICAL ENTRANCE RAMP



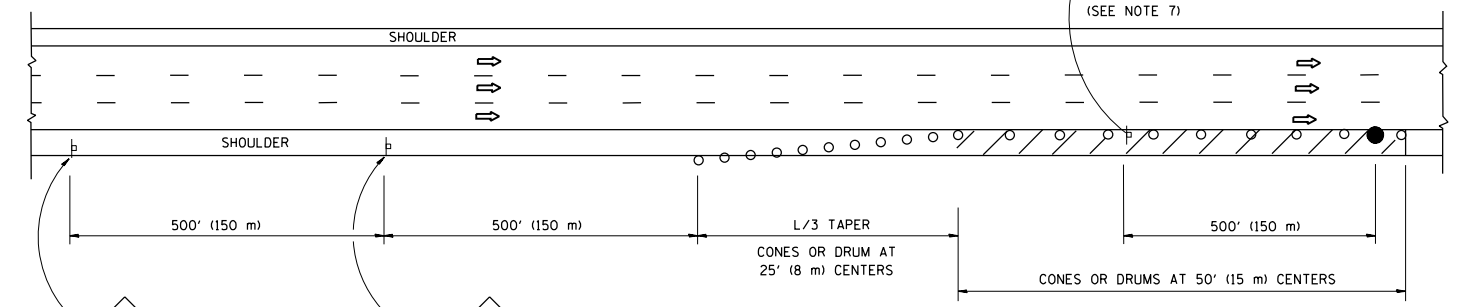
TYPICAL EXIT RAMP



TYPICAL EXIT RAMP



PERMANENT SHOULDER CLOSURE



DAYTIME SHOULDER CLOSURE

SYMBOLS

- ACTIVE WORK AREA
- SIGN ON PORTABLE OR PERMANENT SUPPORT
- FLAGGER WITH CONTROL SIGN
- TYPE II BARRICADE OR DRUM WITH STEADY BURN MONO-DIRECTIONAL LIGHT
- CONE, DRUM OR BARRICADE
- IMPACT ATTENUATOR OF TYPE AND TEST LEVEL SPECIFIED

GENERAL NOTES

1. THE "L" DISTANCE EQUALS:

SPEED LIMIT	FORMULAS
45 mph (80 km/h) OR GREATER:	METRIC ENGLISH L=0.65(W)(S) L=(W)(S)
W = WIDTH OF OFFSET IN FEET (METERS)	
S = NORMAL POSTED SPEED MPH (KM/H)	
2. PLASTIC DRUMS WITH HIGH PERFORMANCE REFLECTIVE SHEETING AND STEADY BURNING LIGHTS ARE REQUIRED FOR ALL NIGHTTIME CLOSURES.
3. ALL SIGNS SHALL BE POST MOUNTED IF THE CLOSURE TIME EXCEEDS FOUR DAYS.
4. FLASHING LIGHTS SHALL BE USED DURING THE HOURS OF DARKNESS AND SHALL BE INSTALLED ABOVE THE FIRST TWO SETS OF SIGNS.

5. THE IMPACT ATTENUATOR, TEMPORARY IS NOT REQUIRED WHEN THE TEMPORARY CONCRETE BARRIER WALL IS PROTECTED BY OR IS TIED INTO THE EXISTING GUARDRAIL. IF OFFSET IS LESS THAN 5 FEET USE NARROW USE TYPE DEVICE TO MEET NCHRP350/MASH.
6. AUTHORIZATION FROM THE DISTRICT'S BUREAU OF TRAFFIC IS REQUIRED FOR ALL FREEWAY CLOSURES.
7. THE FLAGGER AND FLAGGER SIGN ARE REQUIRED AT THE ABOVE WORK SITES WHEN:
 - a. FOUR OR MORE WORK VEHICLES ENTER THE TRAFFIC LANES IN A ONE HOUR PERIOD.
 - b. THE WORK ACTIVITY REQUIRES FREQUENT ENCROACHMENT INTO THE LANE OPEN TO TRAFFIC.
 THE FLAGGER SHALL BE STATIONED APPROXIMATELY 100' (30 m) TO 200' (60 m) IN ADVANCE OF THE WORKERS.
8. 12' MIN. WIDTH TANGENT SECTION
16' MIN. WIDTH CURVE SECTION.

ARRAY DESIGN PER MANUFACTURER TO BE NCHRP 350/MASH COMPLIANT.

DETAIL "A"
IMPACT ATTENUATOR, TEMPORARY
(SEE NOTE 5)

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

FILE NAME =	USER NAME = Gorengautab	DESIGNED -	REVISED - J.A.F. 12-06
ca:\pwwork\pwwork\gorengautab\d0430014\1stStd.dgn		DRAWN - D.W.S.	REVISED - S.P.B. 01-07
	PLOT SCALE = 100.0000' / 1"	CHECKED -	REVISED - S.P.B. 12-09
	PLOT DATE = 4/1/2015	DATE - 11-96	REVISED - M.D. 06-13

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL DETAILS FOR FREEWAY
SHOULDER CLOSURES AND PARTIAL RAMP CLOSURES

SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	2015-0231	COOK	30	30
TC-17		CONTRACT NO. 62A79		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				