

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
305	FAP 0305 22 RS2	McHENRY	34	1
		ILLINOIS	CONTRACT NO. 62T64	

FOR INDEX OF SHEETS, SEE SHEET NO. 2

THIS PROJECT IS LOCATED WITHIN THE CITY OF HARVARD AND UNINCORPORATED McHENRY COUNTY.

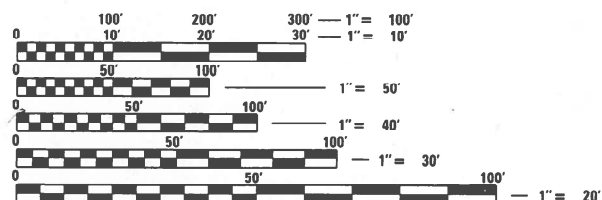
PROPOSED HIGHWAY PLANS

FAP 305, FAP 324: US 14 (DIVISION ST)
BRINK STREET TO EAST OF PARK LANE DRIVE
CRACK & JOINT SEALING, SMART OVERLAY
SECTION: FAP 0305 22 RS2
PROJECT: NHPP-S7WP(609)
McHENRY COUNTY

TRAFFIC DATA:

US 14 (DIVISION STREET):
ILL ROUTE 173 (BRINKS ST) TO ILL ROUTE 23
ADT (2021) = 15,400
SPEED LIMIT = 35 MPH

US 14 (DIVISION STREET):
ILL ROUTE 23 TO EAST OF PARK LANE DRIVE:
ADT (2021) = 8,400
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.

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

PROJECT ENGINEER: VESELIN VELICHKOV (847) 705-4432
PROJECT MANAGER: FAWAD AQUEEL

CONTRACT NO. 62T64

C-91-272-22

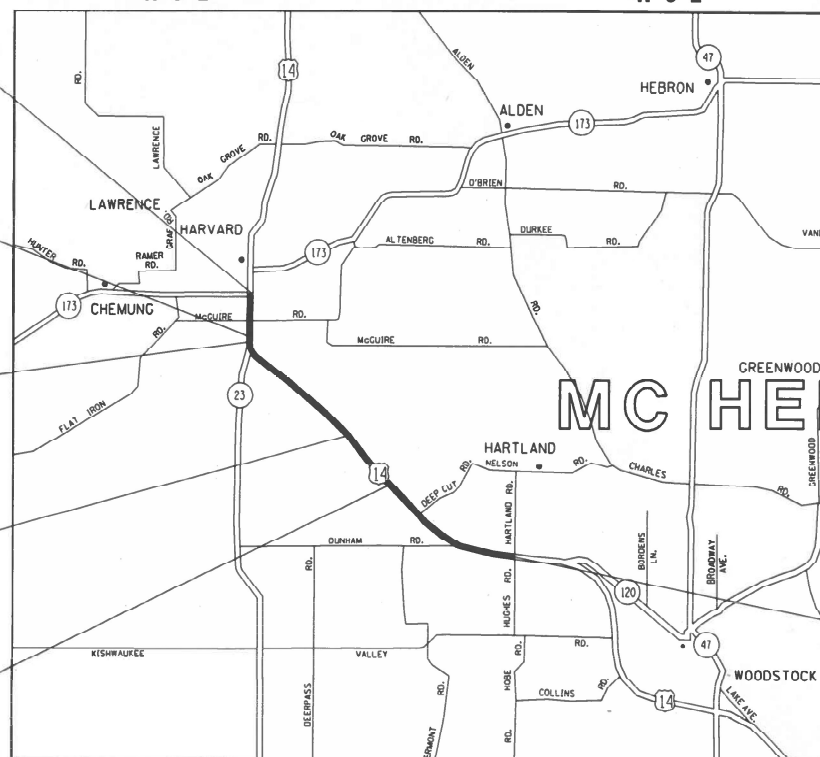
PROJECT BEGIN
STA. 15 + 91

BRINK ST TO ILL ROUTE 23
CRACK & JOINT SEALING
STA. 15 + 91 TO STA. 71 + 39

BRIDGE OMISSION
STA. 71 + 39 TO STA. 72 + 47

ILL ROUTE 23 TO E. OF PARK LANE DR.
SMART OVERLAY
STA. 72 + 47 TO STA. 437 + 38

BRIDGE OMISSION
STA. 295 + 00 TO STA. 297 + 34



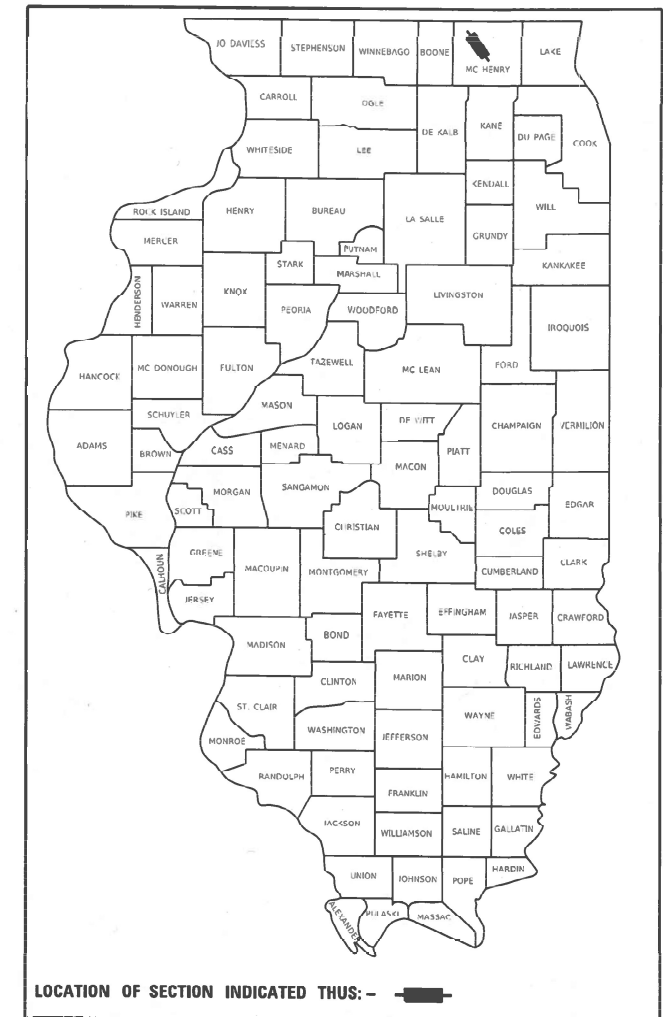
LOCATION MAP (NOT TO SCALE)

PROJECT END
STA. 437 + 38

DUNHAM TOWNSHIP, HARTLAND TOWNSHIP

GROSS AND NET LENGTH = 42,147 FT. = 7.98 MILES
NET LENGTH = 41,805 FT. = 7.92 MILES

D-91-219-22



LOCATION OF SECTION INDICATED THUS: -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBMITTED June 22, 2023
Joe Piro REGIONAL ENGINEER

August 18, 2023
Scott A. Etk
ENGINEER OF DESIGN AND ENVIRONMENT

August 18, 2023
Stephen M. Smith
DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS

INDEX OF SHEETS

STATE STANDARDS

SHEET NO.	DESCRIPTION
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2	INDEX OF SHEETS, STATE STANDARDS & GENERAL NOTES
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6	TYPICAL SECTIONS
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23	AUTOMATIC TRAFFIC RECORDER LAYOUT
24	BD-08: DETAILS FOR FRAMES AND LIDS ADJUSTMENT WITH MILLING
25	BD-22: PAVEMENT PATCHING FOR HMA SURFACED PAVEMENT
26	BD-32: BUTT JOINT AND HMA TAPER DETAILS
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32	TC-22: ARTERIAL ROAD INFORMATION SIGN
33	TS-07: DISTRICT 1 - DETECTOR LOOP INSTALLATION DETAILS FOR ROADWAY RESURFACING
34	PD-11: CRACK AND JOINT SEALING DETAIL

STANDARD NO.	DESCRIPTION
000001-08	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
442201-03	CLASS C AND D PATCHES
482011-03	HMA SHLD. STRIPS/SHLDS. WITH RESURFACING OR WIDENING AND RESURFACING PROJECTS
642006-01	SHOULDER RUMBLE STRIPS, 8 IN.
701001-02	OFF-RD OPERATIONS, 2L, 2W, MORE THAN 15' (4.5m) AWAY
701006-05	OFF-RD OPERATIONS, 2L, 2W, 15' (4.5m) TO 24" (600mm) FROM PAVEMENT EDGE
701011-04	OFF-RD MOVING OPERATIONS, 2L, 2W, DAY ONLY
701201-05	LANE CLOSURE, 2L, 2W, DAYS ONLY, FOR SPEEDS ≥ 45 MPH
701301-04	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
701306-04	LANE CLOSURE, 2L, 2W, SLOW MOVING OPERATIONS DAY ONLY, FOR SPEEDS ≥ 45 MPH
701311-03	LANE CLOSURE, 2L, 2W MOVING OPERATIONS - DAY ONLY
701336-07	LANE CLOSURE, 2L, 2W, WORK AREAS IN SERIES, FOR SPEEDS ≥ 45 MPH
701427-05	LANE CLOSURE, MULTILANE, INTERMITTENT OR MOVING OPERATIONS, FOR SPEEDS ≤ 40 MPH
701502-09	URBAN LANE CLOSURE, 2L, 2W, WITH BIDIRECTIONAL LEFT TURN LANE
701701-10	URBAN LANE CLOSURE, MULTILANE INTERSECTION
701801-06	SIDEWALK, CORNER OR CROSSWALK CLOSURE
701901-08	TRAFFIC CONTROL DEVICES
886001-01	DETECTOR LOOP INSTALLATIONS
886006-01	TYPICAL LAYOUT FOR DETECTOR LOOPS

- WHEN MILLED PAVEMENT IS OPEN TO TRAFFIC, THE MAXIMUM GRADE DIFFERENTIAL BETWEEN PASSES OF THE MILLING MACHINE SHALL NOT EXCEED 1½ INCHES WHERE THE SPEED LIMIT IS 45 MPH OR LESS, AND 1 INCH WHERE THE SPEED LIMIT IS OVER 45 MPH. WITH WRITTEN APPROVAL FROM THE RESIDENT ENGINEER, A MAXIMUM GRADE DIFFERENTIAL OF 3 INCHES MAY BE ALLOWED IF THE EDGE OF THE MILLING IS SLOPED A MINIMUM OF 1V:3H.
- ANY LOOSE MATERIAL DEPOSITED IN THE FLOW LINE OF CURB OR DRAINAGE STRUCTURES, WHICH OBSTRUCTS THE NATURAL FLOW OF WATER, SHALL BE REMOVED AT THE CLOSE OF EACH WORKING DAY. PRIOR TO ACCEPTANCE OF THE IMPROVEMENT, ALL DRAINAGE STRUCTURES SHALL BE FREE OF DIRT AND DEBRIS. THIS WORK WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE CONSIDERED AS INCIDENTAL.
- EXISTING BROKEN FRAMES AND LIDS SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR AND SHALL BE REPLACED AS DIRECTED BY THE ENGINEER. REPLACEMENT FRAMES AND LIDS WILL BE PAID FOR ACCORDING TO ARTICLE 109.04 OF THE STANDARD SPECIFICATIONS, UNLESS A SEPARATE PAY ITEM HAS BEEN PROVIDED.
- THE CONTRACTOR SHALL USE CARE IN GRADING OR EXCAVATING NEAR ANY AND ALL EXISTING ITEMS THAT WILL NOT BE REMOVED INCLUDING PREVIOUSLY SEEDED AREAS. ANY DAMAGE DONE TO EXISTING ITEMS BY THE CONTRACTOR SHALL BE REPAIRED AT THE CONTRACTOR'S OWN EXPENSE TO THE SATISFACTION OF THE ENGINEER.
- BUTT JOINTS WILL BE INSTALLED AT THE ENDS OF RESURFACING (WHERE RESURFACING MEETS EXISTING PAVEMENT) IN ACCORDANCE WITH THE "BUTT JOINT AND HMA TAPER DETAILS" SHEET INCLUDED IN THE PLANS, UNLESS OTHERWISE SPECIFIED.
- THE RESIDENT ENGINEER SHALL CONTACT WALTER CZARNY, AREA TRAFFIC FIELD ENGINEER, VIA E-MAIL AT WALTER.CZARNY@ILLINOIS.GOV, A MINIMUM OF 2 WEEKS PRIOR TO PLACEMENT OF PERMANENT PAVEMENT MARKINGS.
- CONTRACTOR SHALL PROVIDE 7 DAY NOTICE OF WORK SO THAT THE DEPARTMENT OF TRANSPORTATION DATA MANAGEMENT CAN SCHEDULE INSPECTION. THE RESIDENT ENGINEER SHALL CONTACT MR. ADAM FOWLER AT ADAM.FOWLER@ILLINOIS.GOV (217) 524-0634 OR PATRICK MURPHY AT PATRICK.MURPHY@ILLINOIS.GOV (217) 557-5570 WITH CENTRAL OFFICE THREE DAYS PRIOR TO MILLING THE AUTOMATIC TRAFFIC RECORDER.
- 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.
- ALL SIGNS MUST BE IN ACCORDANCE WITH THE APPLICABLE PROVISIONS OF THE STATE OF ILLINOIS "STANDARD SOECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" ADOPTED JANUARY 1, 2022. THE DETAILS IN THESE PLANS, THE LATEST EDITION OF THE IDOT BUREAU OF DESIGN AND ENVIRONMENT HIGHWAY STANDARDS AND LATEST EDITION OF THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES".
- THE "ROAD CONSTRUCTION AHEAD" SIGNS SHALL REMAIN INSTALLED UNTIL THE COMPLETION OF THE PROJECT OR WHEN NO ROADWAY HAZARDS REMAIN WITHIN THE WORK ZONE.
- 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.
- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND CONDITIONS EXISTING IN THE FIELD PRIOR TO CONSTRUCTION AND ORDERING OF MATERIALS.
- ALL PAVEMENT PATCHING LOCATIONS WILL BE DETERMINED IN THE FIELD BY THE ENGINEER. AREAS OF SEVERE RUTTING SHALL BE DETERMINED BY ENGINEER BEFORE MILLING.
- ANY PAVEMENT MARKINGS AND RAISED REFLECTIVE PAVEMENT MARKERS OUTSIDE THE REMOVAL LINE SHOWN ON PLANS SHALL BE PLACED AT NO ADDITIONAL COST TO THE DEPARTMENT.
- PAVEMENT MARKING TAPE, TYPE III SHALL BE USED FOR SHORT TERM PAVEMENT MARKINGS ON ALL FINAL SURFACES.
- THE CONTRACTOR SHALL BE REQUIRED TO PROVIDE ACCESS TO ABUTTING PROPERTY AT ALL TIMES DURING THE CONSTRUCTION OF THIS PROJECT.
- ALL MILLED SURFACES SHALL BE A UNIFORM CROSS SLOPE PER LANE AND FREE OF RIDGES BETWEEN PASSES. ANY DEVIATIONS SHALL BE CORRECTED AT NO COST TO THE DEPARTMENT.
- DO NOT SCALE PLANS FOR CONSTRUCTION DIMENSIONS.

GENERAL NOTES

- BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL "JULIE" AT (800) 892-0123 OR 811 FOR FIELD LOCATIONS OF BURIED ELECTRIC, TELEPHONE, AND GAS FACILITIES. (48 HOUR NOTIFICATION REQUIRED)
- THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES, CITIES OF HARVARD AND UNINCORPORATED MCHENRY COUNTY.
- FRAMES AND GRATES ADJUSTMENT OF PRIVATE UTILITIES WITHIN THE LIMITS OF THE IMPROVEMENTS SHALL BE DONE BY THEIR RESPECTIVE OWNERS AND ARE NOT PART OF THIS CONTRACT.
- THE CONTRACTOR SHALL CONTACT KALPANA KANNAN-HOSADURGA, THE DISTRICT ONE TRAFFIC CONTROL SUPERVISOR, AT KALPANA.KANNAN-HOSADURGA@ILLINOIS.GOV A MINIMUM OF 72 HOURS IN ADVANCE OF BEGINNING WORK.
- THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON STATE PROPERTY WITHOUT THE WRITTEN PERMISSION OF THE DEPARTMENT.
- UNLESS OTHER CONDITIONS WARRANT EXTENDED LANE CLOSURE AS DETERMINED AND APPROVED IN WRITING BY THE RESIDENT ENGINEER OR AS PROVIDED FOR IN THE CONTRACT SPECIFICATIONS, OVERNIGHT CLOSURES SHALL NOT BE ALLOWED FOR REHABILITATION PROJECTS INVOLVING DAYTIME MILLING AND RESURFACING OPERATIONS AND CLASS D PATCHING.
- BEFORE BEGINNING ANY WORK, THE CONTRACTOR SHALL RETAIN AND RECORD FOR FUTURE REFERENCE, ALL EXISTING PAVEMENT MARKING LINES (AND RAISED REFLECTIVE PAVEMENT MARKERS) IN ORDER THAT THESE LOCATIONS CAN BE RE-ESTABLISHED FOR STRIPING. EXACT LOCATIONS OF ALL PAVEMENT MARKINGS SHALL BE ASSHOWN ON THE PLANS OR DIRECTED BY THE RESIDENT ENGINEER.

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DRAWN -	REVISED -	305			FAP 0305 22 RS2	MCHENRY	34	2	
PLOT SCALE = 100,0000 ' / in.	CHECKED -	REVISED -			CONTRACT NO. 62T64				
PLOT DATE = 6/30/2023	DATE -	REVISED -			SCALE:	SHEET 1 OF 1 SHEETS	STA. TO STA.	ILLINOIS	FED. AID PROJECT

SUMMARY OF QUANTITIES			TOTAL QUANTITIES URBAN	CONSTRUCTION TYPE CODE				
CODE NO	ITEM	UNIT		SMART 80% FED 20% STATE 0005	AUTOMATIC TRAFFIC RECORDER 80% FED 20% STATE 0021	CRK & JNT SL 80% FED 20% STATE 0005		
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	60910	60910				
40600370	LONGITUDINAL JOINT SEALANT	FOOT	56575	56575				
40600400	MIXTURE FOR CRACKS, JOINTS, AND FLANGEWAYS	TON	205	205				
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SO YD	250	250				
40601005	HOT-MIX ASPHALT REPLACEMENT OVER PATCHES	TON	2700	2700				
40604062	HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N70	TON	11370	11370				
44000155	HOT-MIX ASPHALT SURFACE REMOVAL, 1 1/2"	SO YD	135346	135346				
44002215	HOT-MIX ASPHALT REMOVAL OVER PATCHES, 3 3/4"	SO YD	12850	12850				
44201798	CLASS D PATCHES, TYPE I, 13 INCH	SO YD	500	500				
44201803	CLASS D PATCHES, TYPE II, 13 INCH	SO YD	5500	5500				
44201807	CLASS D PATCHES, TYPE III, 13 INCH	SO YD	2850	2850				
44201809	CLASS D PATCHES, TYPE IV, 13 INCH	SO YD	4000	4000				
45100100	CRACK ROUTING (PAVEMENT)	FOOT	20900		20900			

SUMMARY OF QUANTITIES			TOTAL QUANTITIES URBAN	CONSTRUCTION TYPE CODE				
CODE NO	ITEM	UNIT		SMART 80% FED 20% STATE 0005	AUTOMATIC TRAFFIC RECORDER 80% FED 20% STATE 0021	CRK & JNT SL 80% FED 20% STATE 0005		
45100200	CRACK FILLING	POUND	5975			5975		
48102100	AGGREGATE WEDGE SHOULDER, TYPE B	TON	2130	2130				
64200108	SHOULDER RUMBLE STRIPS, 8 INCH	FOOT	72,520	72,520				
67100100	MOBILIZATION	L SUM	1	0.9		0.1		
70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	L SUM	1	1				
70100600	TRAFFIC CONTROL AND PROTECTION, STANDARD 701336	L SUM	1	1				
70102622	TRAFFIC CONTROL AND PROTECTION, STANDARD 701502	L SUM	1	0.1		0.9		
70102635	TRAFFIC CONTROL AND PROTECTION, STANDARD 701701	L SUM	1	0.1		0.9		
70102640	TRAFFIC CONTROL AND PROTECTION, STANDARD 701801	L SUM	1			1		
70300100	SHORT TERM PAVEMENT MARKING	FOOT	15760	15760				
70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SO FT	5225	5225				
70300211	TEMPORARY PAVEMENT MARKING LETTERS AND SYMBOLS - PAINT	SO FT	345	345				

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**US 14 - DIVISION STREET: BRINK STREET TO EAST OF PARK LANE DRIVE
SUMMARY OF QUANTITIES**

SCALE:	SHEET NO. 1 OF 3 SHEETS	STA.	TO STA.
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
305	FAP 0305 22 R52	MCHENRY	34	3
FED. ROAD DIST. NO. 1 (ILLINOIS) FED. AID PROJECT			CONTRACT NO. 62T64	

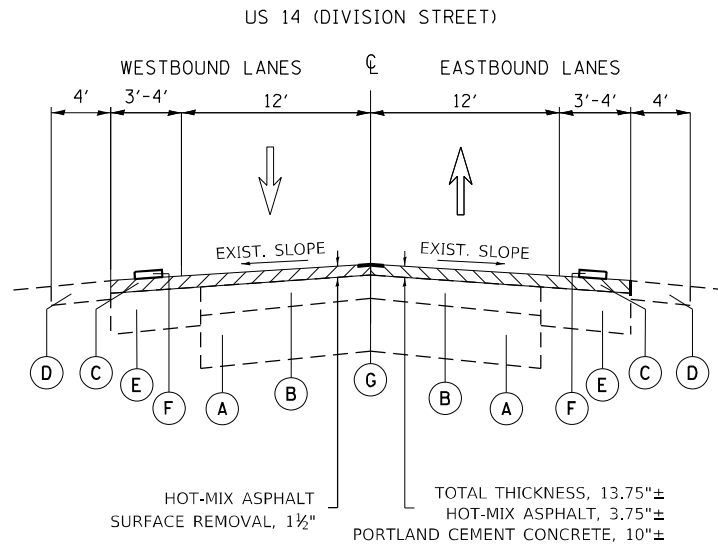
* = SPECIALTY ITEMS
△ = NON-PARTICIPATING WORK (100% STATE)

SUMMARY OF QUANTITIES			TOTAL QUANTITIES URBAN	CONSTRUCTION TYPE CODE				SUMMARY OF QUANTITIES			TOTAL QUANTITIES URBAN	CONSTRUCTION TYPE CODE						
CODE NO	ITEM	UNIT		SMART 80% FED 20% STATE 0005	AUTOMATIC TRAFFIC RECORDER 80% FED 20% STATE 0021	CRK & JNT SL 80% FED 20% STATE 0005						SMART 80% FED 20% STATE 0005	AUTOMATIC TRAFFIC RECORDER 80% FED 20% STATE 0021	CRK & JNT SL 80% FED 20% STATE 0005				
70300221	TEMPORARY PAVEMENT MARKING - LINE 4"-	FOOT	42960	42960						* 78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	450	450				
	PAINT																	
70300241	TEMPORARY PAVEMENT MARKING - LINE 6"-	FOOT	1000	1000						* 78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	245	245				
	PAINT																	
70300251	TEMPORARY PAVEMENT MARKING - LINE 8"-	FOOT	530	530						* 78009000	MODIFIED URETHANE PAVEMENT MARKING - LETTERS AND SYMBOLS	SO FT	1410			1410		
	PAINT																	
70300261	TEMPORARY PAVEMENT MARKING - LINE 12"-	FOOT	450	450						* 78009004	MODIFIED URETHANE PAVEMENT MARKING - LINE 4"	FOOT	27120	470		26650		
	PAINT																	
70300281	TEMPORARY PAVEMENT MARKING - LINE 24"-	FOOT	245	245						* 78009006	MODIFIED URETHANE PAVEMENT MARKING - LINE 6"	FOOT	5760			5760		
	PAINT																	
70306120	TEMPORARY PAVEMENT MARKING - LINE 4" -	FOOT	39540	39540						* 78009008	MODIFIED URETHANE PAVEMENT MARKING - LINE 8"	FOOT	265			265		
	TYPE III TAPE																	
* 78000100	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	SO FT	345	345						* 78009012	MODIFIED URETHANE PAVEMENT MARKING - LINE 12"	FOOT	540			540		
* 78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	42960	42960						* 78009024	MODIFIED URETHANE PAVEMENT MARKING - LINE 24"	FOOT	570			570		
* 78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	1000	1000						* 78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	915	915				
										78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	915	915				
* 78000500	THERMOPLASTIC PAVEMENT MARKING - LINE 8"	FOOT	530	530						* 78300202	PAVEMENT MARKING REMOVAL - WATER BLASTING	SO FT	415	415				

* = SPECIALTY ITEMS
 △ = NON-PARTICIPATING WORK (100% STATE)

LEGEND - EXISTING:

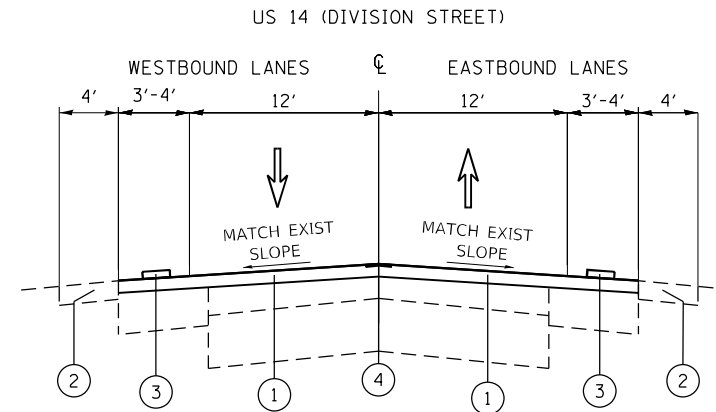
- (A) PORTLAND CEMENT CONCRETE PAVEMENT 10"±
- (B) HOT-MIX ASPHALT PAVEMENT 3.75"±
- (C) HOT-MIX ASPHALT SHOULDER 8"±
- (D) AGGREGATE SHOULDER 6"±
- (E) HMA BASE WIDENING & SHOULDER
- (F) SHOULDER RUMBLE STRIPS, 8"
- (G) CENTERLINE RUMBLE STRIPS, 16"



EXISTING TYPICAL SECTION

* STA 85+00 - STA 295+00
 STA 297+34 - STA 437+38

* = SHOULDER RUMBLE STRIPS CUT ON
 EDGE LINE EASTBOUND & WESTBOUND



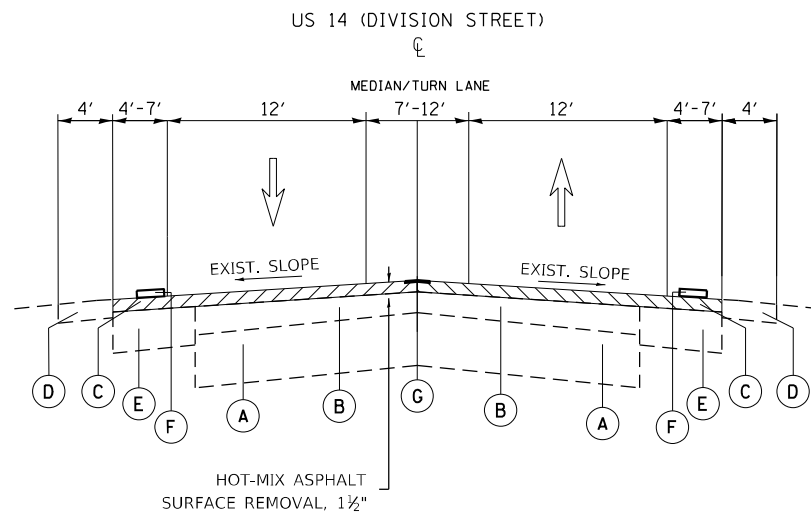
PROPOSED TYPICAL SECTION

* STA 85+00 - STA 295+00
 STA 297+34 - STA 437+38

* = SHOULDER RUMBLE STRIPS CUT ON
 EDGE LINE EASTBOUND & WESTBOUND

LEGEND - PROPOSED

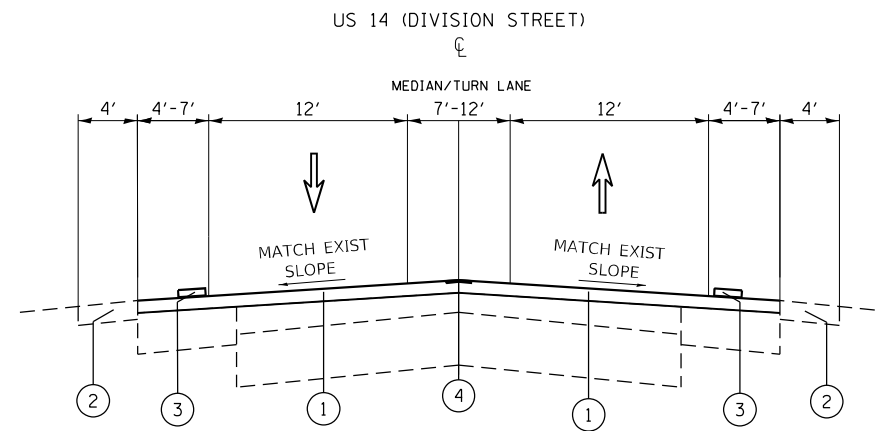
- (1) HOT-MIX ASPHALT SURFACE COURSE, MIX "D", IL-9.5, N70, 1 1/2"
- (2) GRADING AND SHAPING SHOULDERS + AGGREGATE WEDGE SHOULDER, TYPE B
- (3) SHOULDER RUMBLE STRIPS, 8"
- (4) CENTERLINE RUMBLE STRIPS, 16"



EXISTING TYPICAL SECTION

STA 15+91 - STA 71+39
 * STA 72+47 - STA 85+00

* = SHOULDER RUMBLE STRIPS CUT ON
 EDGE LINE EASTBOUND & WESTBOUND



PROPOSED TYPICAL SECTION

STA 15+91 - STA 71+39
 * STA 72+47 - STA 85+00

* = SHOULDER RUMBLE STRIPS CUT ON
 EDGE LINE EASTBOUND & WESTBOUND

HOT-MIX ASPHALT MIXTURE REQUIREMENTS		QUALITY MANAGEMENT PROGRAM (QMP)
MIXTURE TYPE	AIR VOIDS(%) @ Ndes	
PAVEMENT		
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", IL-9.5, N70	4.0% @ 70 GYR.	PFPP
PATCHING		
CLASS D PATCHES (HMA BINDER IL-19 MM)	4% @ 70 GYR.	OC/QA
HOT-MIX ASPHALT REPLACEMENT OVER PATCHES (HMA BINDER IL-19 MM)	4% @ 70 GYR.	OC/QA
QMP DESIGNATION: QUALITY CONTROL/QUALITY ASSURANCE (OC/QA); QUALITY CONTROL FOR PERFORMANCE (QCP); PAY FOR PERFORMANCE (PFP)		

NOTE

NOTE 1: THE UNIT WEIGHT USED TO CALCULATE ALL HOT-MIX ASPHALT SURFACE MIXTURE QUANTITIES IS 112 LBS/SQ YD/IN.

NOTE 2: THE "AC TYPE" FOR POLYMERIZED HMA MIXES SHALL BE "SBS/SBR PG 76 -22" AND FOR NON-POLYMERIZED HMA THE "AC TYPE" SHALL BE "PG 64 -22" UNLESS MODIFIED BY RECLAIMED MATERIALS SPECIFICATIONS.

NOTE 3: THE CONTRACTOR SHALL PATCH FIRST BEFORE MILLING.

NOTE 4: LONGITUDINAL JOINT SEALANT SHALL BE PLACED OVER THE MILLED SURFACE.

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	DRAWN -	REVISED -
PLOT SCALE = 100,0000' / in.	CHECKED -	REVISED -
PLOT DATE = 7/15/2023	DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

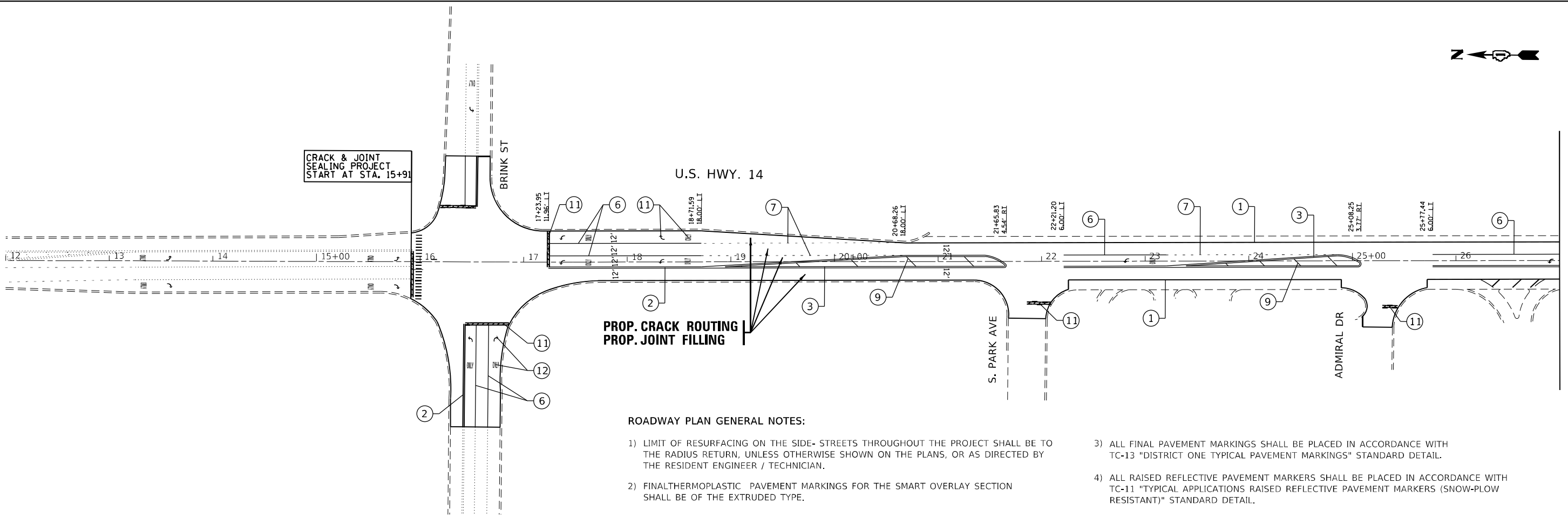
**US 14 - DIVISION STREET: BRINK STREET TO EAST OF PARK LANE DRIVE
 TYPICAL SECTION**

SCALE: SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
305	FAP 0305 22 RS2	MCHENRY	34	6
CONTRACT NO. 62T64			ILLINOIS FED. AID PROJECT	



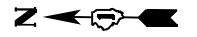
CRACK & JOINT SEALING PROJECT START AT STA. 15+91



ROADWAY PLAN GENERAL NOTES:

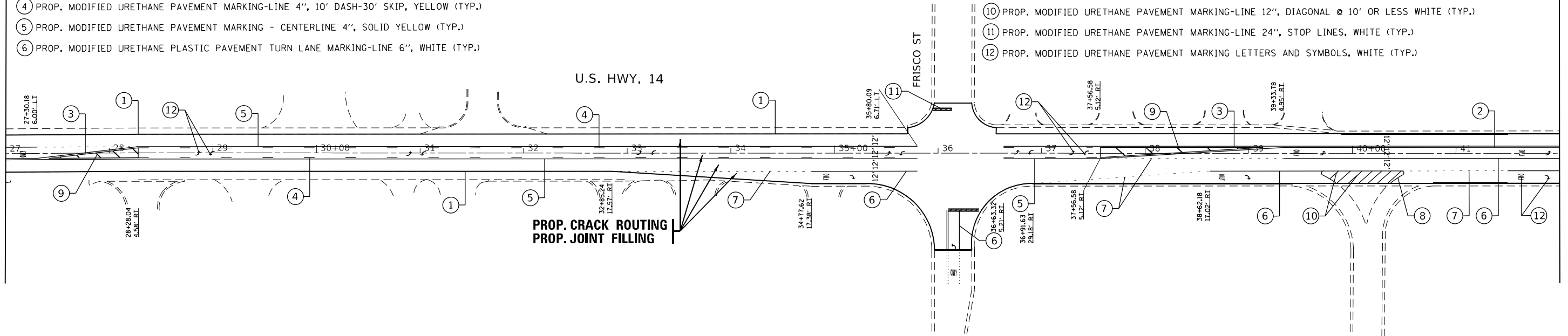
- 1) LIMIT OF RESURFACING ON THE SIDE-STREETS THROUGHOUT THE PROJECT SHALL BE TO THE RADIUS RETURN, UNLESS OTHERWISE SHOWN ON THE PLANS, OR AS DIRECTED BY THE RESIDENT ENGINEER / TECHNICIAN.
- 2) FINAL THERMOPLASTIC PAVEMENT MARKINGS FOR THE SMART OVERLAY SECTION SHALL BE OF THE EXTRUDED TYPE.
- 3) ALL FINAL PAVEMENT MARKINGS SHALL BE PLACED IN ACCORDANCE WITH TC-13 "DISTRICT ONE TYPICAL PAVEMENT MARKINGS" STANDARD DETAIL.
- 4) ALL RAISED REFLECTIVE PAVEMENT MARKERS SHALL BE PLACED IN ACCORDANCE WITH TC-11 "TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT)" STANDARD DETAIL.

PAVEMENT MARKING LEGEND



- 1) PROP. MODIFIED URETHANE PAVEMENT MARKING-LINE 4", EDGE LINE WHITE (TYP.)
- 2) PROP. MODIFIED URETHANE PAVEMENT MARKING CENTERLINE 2 @ 4" @ 11" C-C, YELLOW (TYP.)
- 3) PROP. MODIFIED URETHANE PAVEMENT MARKING DOUBLE LINES MEDIANS 4" @ 11" C-C, YELLOW (TYP.)
- 4) PROP. MODIFIED URETHANE PAVEMENT MARKING-LINE 4", 10' DASH-30' SKIP, YELLOW (TYP.)
- 5) PROP. MODIFIED URETHANE PAVEMENT MARKING - CENTERLINE 4", SOLID YELLOW (TYP.)
- 6) PROP. MODIFIED URETHANE PLASTIC PAVEMENT TURN LANE MARKING-LINE 6", WHITE (TYP.)
- 7) PROP. MODIFIED URETHANE PAVEMENT MARKING-LINE 6", 2' DASH-6' SKIP, WHITE (TYP.)
- 8) PROP. MODIFIED URETHANE PAVEMENT MARKING 8" GORE MARKING AND CHANNELIZING LINES (TYP.)
- 9) PROP. MODIFIED URETHANE PAVEMENT MARKING-LINE 12", DIAGONAL @ 45° YELLOW (TYP.) (5 MINIMUM EQUALLY SPACED)
- 10) PROP. MODIFIED URETHANE PAVEMENT MARKING-LINE 12", DIAGONAL @ 10' OR LESS WHITE (TYP.)
- 11) PROP. MODIFIED URETHANE PAVEMENT MARKING-LINE 24", STOP LINES, WHITE (TYP.)
- 12) PROP. MODIFIED URETHANE PAVEMENT MARKING LETTERS AND SYMBOLS, WHITE (TYP.)

MATCHLINE STA. 27+00



MATCHLINE STA. 42+00

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**US 14 - DIVISION STREET: IL ROUTE 173 (BRINK ST) TO ILL ROUTE 23
ROADWAY AND PAVEMENT MARKING PLAN**

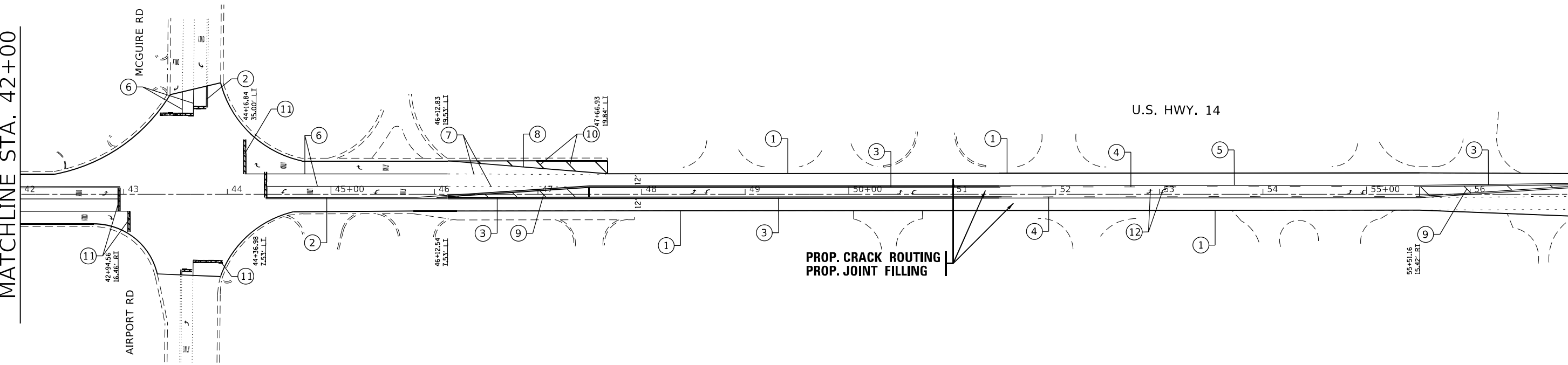
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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			CONTRACT NO. 62T64	
ILLINOIS FED. AID PROJECT				



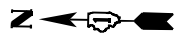
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MATCHLINE STA. 57+00



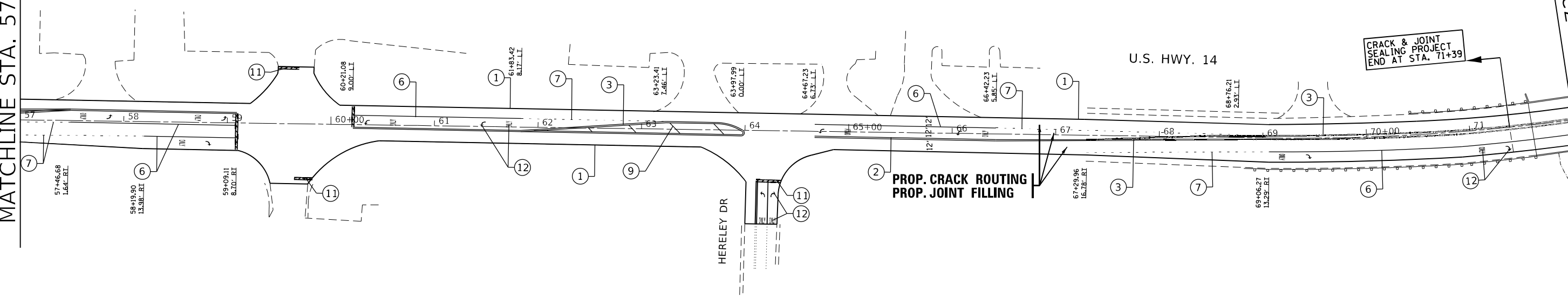
PAVEMENT MARKING LEGEND

- ① PROP. MODIFIED URETHANE PAVEMENT MARKING-LINE 4", EDGE LINE WHITE (TYP.)
- ② PROP. MODIFIED URETHANE PAVEMENT MARKING CENTERLINE 2 @ 4" @ 11" C-C, YELLOW (TYP.)
- ③ PROP. MODIFIED URETHANE PAVEMENT MARKING DOUBLE LINES MEDIANS 4" @ 11" C-C, YELLOW (TYP.)
- ④ PROP. MODIFIED URETHANE PAVEMENT MARKING-LINE 4", 10' DASH-30' SKIP, YELLOW (TYP.)
- ⑤ PROP. MODIFIED URETHANE PAVEMENT MARKING - CENTERLINE 4", SOLID YELLOW (TYP.)
- ⑥ PROP. MODIFIED URETHANE PLASTIC PAVEMENT TURN LANE MARKING-LINE 6", WHITE (TYP.)
- ⑦ PROP. MODIFIED URETHANE PAVEMENT MARKING-LINE 6", 2' DASH-6' SKIP, WHITE (TYP.)
- ⑧ PROP. MODIFIED URETHANE PAVEMENT MARKING 8" GORE MARKING AND CHANNELIZING LINES (TYP.)
- ⑨ PROP. MODIFIED URETHANE PAVEMENT MARKING-LINE 12", DIAGONAL @ 45° YELLOW (TYP.) (5 MINIMUM EQUALLY SPACED)
- ⑩ PROP. MODIFIED URETHANE PAVEMENT MARKING-LINE 12", DIAGONAL @ 10' OR LESS WHITE (TYP.)
- ⑪ PROP. MODIFIED URETHANE PAVEMENT MARKING-LINE 24", STOP LINES, WHITE (TYP.)
- ⑫ PROP. MODIFIED URETHANE PAVEMENT MARKING LETTERS AND SYMBOLS, WHITE (TYP.)



MATCHLINE STA. 57+00

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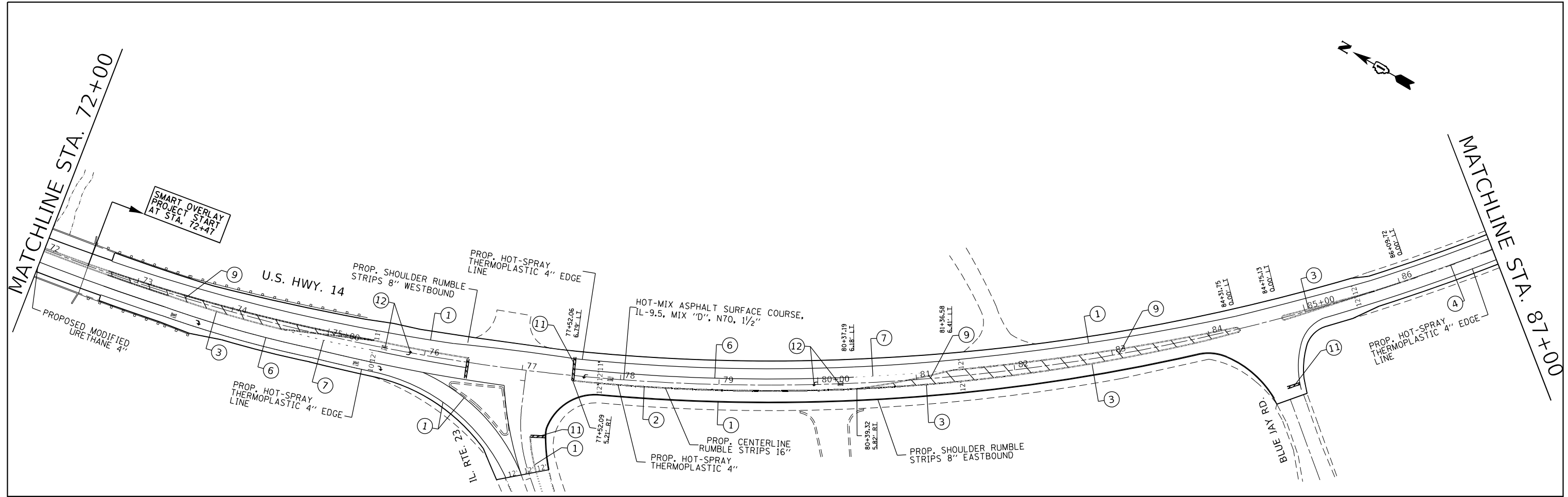
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**US 14 - DIVISION STREET: IL ROUTE 173 (BRINK ST) TO ILL ROUTE 23
ROADWAY AND PAVEMENT MARKING PLAN**

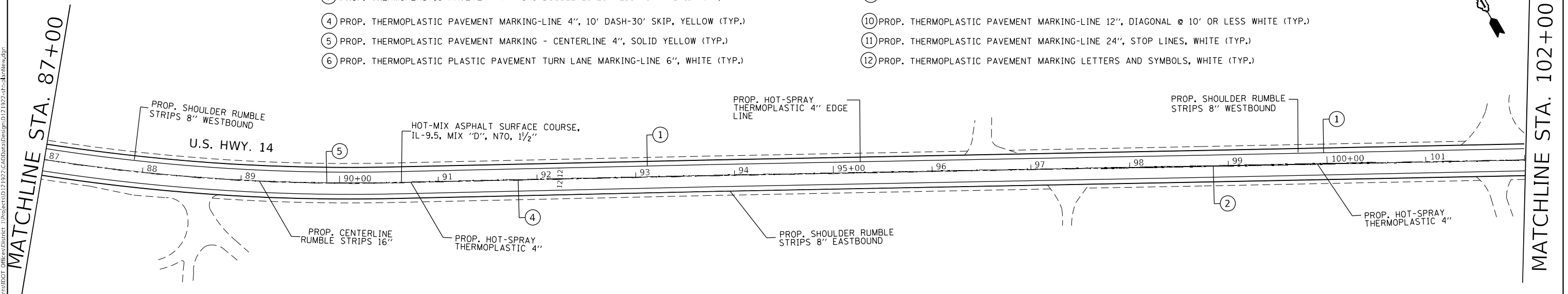
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F.A.P. RTE. 324	SECTION FAP 0305 22 RS2	COUNTY MCHENRY	TOTAL SHEETS 34	SHEET NO. 8
			CONTRACT NO. 62T64	
ILLINOIS FED. AID PROJECT				



PAVEMENT MARKING LEGEND

- ① PROP. THERMOPLASTIC PAVEMENT MARKING-LINE 4", EDGE LINE WHITE (TYP.)
- ② PROP. THERMOPLASTIC PAVEMENT MARKING CENTERLINE 2 @ 4" @ 11" C-C, YELLOW (TYP.)
- ③ PROP. THERMOPLASTIC PAVEMENT MARKING DOUBLE LINES MEDIANS 4" @ 11" C-C, YELLOW (TYP.)
- ④ PROP. THERMOPLASTIC PAVEMENT MARKING-LINE 4", 10' DASH-30' SKIP, YELLOW (TYP.)
- ⑤ PROP. THERMOPLASTIC PAVEMENT MARKING - CENTERLINE 4", SOLID YELLOW (TYP.)
- ⑥ PROP. THERMOPLASTIC PLASTIC PAVEMENT TURN LANE MARKING-LINE 6", WHITE (TYP.)
- ⑦ PROP. THERMOPLASTIC PAVEMENT MARKING-LINE 6", 2' DASH-6' SKIP, WHITE (TYP.)
- ⑧ PROP. THERMOPLASTIC PAVEMENT MARKING 8" GORE MARKING AND CHANNELIZING LINES (TYP.)
- ⑨ PROP. THERMOPLASTIC PAVEMENT MARKING-LINE 12", DIAGONAL @ 45° YELLOW (TYP.) (5 MINIMUM EQUALLY SPACED)
- ⑩ PROP. THERMOPLASTIC PAVEMENT MARKING-LINE 12", DIAGONAL @ 10' OR LESS WHITE (TYP.)
- ⑪ PROP. THERMOPLASTIC PAVEMENT MARKING-LINE 24", STOP LINES, WHITE (TYP.)
- ⑫ PROP. THERMOPLASTIC PAVEMENT MARKING LETTERS AND SYMBOLS, WHITE (TYP.)



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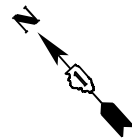
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**US 14 - DIVISION STREET: IL ROUTE 23 TO EAST OF PARK LANE DR.
ROADWAY AND PAVEMENT MARKING PLAN**

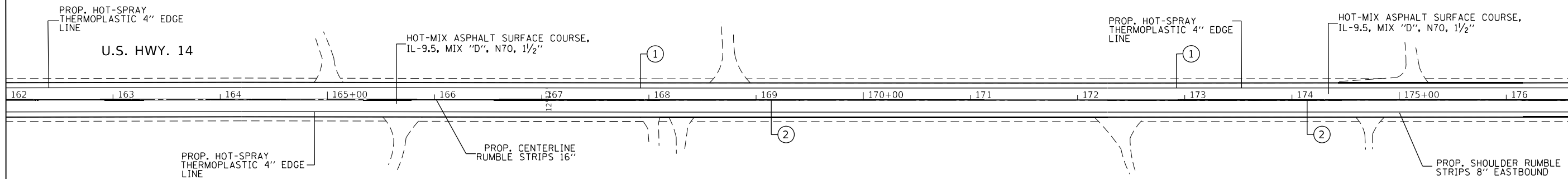
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
305	FAP 0305 22 R52	MCHENRY	34	9
ILLINOIS FED. AID PROJECT			CONTRACT NO. 62T64	



MATCHLINE STA. 162+00

MATCHLINE STA. 177+00

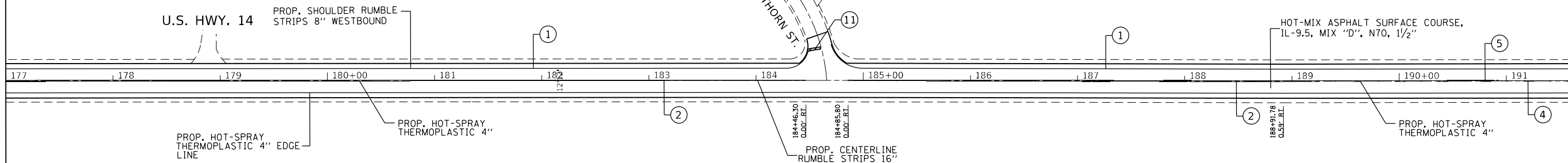
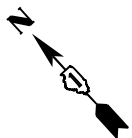


PAVEMENT MARKING LEGEND

- | | |
|---|--|
| ① PROP. THERMOPLASTIC PAVEMENT MARKING-LINE 4", EDGE LINE WHITE (TYP.) | ⑦ PROP. THERMOPLASTIC PAVEMENT MARKING-LINE 6", 2' DASH-6' SKIP, WHITE (TYP.) |
| ② PROP. THERMOPLASTIC PAVEMENT MARKING CENTERLINE 2 @ 4" @ 11" C-C, YELLOW (TYP.) | ⑧ PROP. THERMOPLASTIC PAVEMENT MARKING 8" GORE MARKING AND CHANNELIZING LINES (TYP.) |
| ③ PROP. THERMOPLASTIC PAVEMENT MARKING DOUBLE LINES MEDIANS 4" @ 11" C-C, YELLOW (TYP.) | ⑨ PROP. THERMOPLASTIC PAVEMENT MARKING-LINE 12", DIAGONAL @ 45° YELLOW (TYP.) (5 MINIMUM EQUALLY SPACED) |
| ④ PROP. THERMOPLASTIC PAVEMENT MARKING-LINE 4", 10' DASH-30' SKIP, YELLOW (TYP.) | ⑩ PROP. THERMOPLASTIC PAVEMENT MARKING-LINE 12", DIAGONAL @ 10' OR LESS WHITE (TYP.) |
| ⑤ PROP. THERMOPLASTIC PAVEMENT MARKING - CENTERLINE 4", SOLID YELLOW (TYP.) | ⑪ PROP. THERMOPLASTIC PAVEMENT MARKING-LINE 24", STOP LINES, WHITE (TYP.) |
| ⑥ PROP. THERMOPLASTIC PLASTIC PAVEMENT TURN LANE MARKING-LINE 6", WHITE (TYP.) | ⑫ PROP. THERMOPLASTIC PAVEMENT MARKING LETTERS AND SYMBOLS, WHITE (TYP.) |

MATCHLINE STA. 177+00

MATCHLINE STA. 192+00



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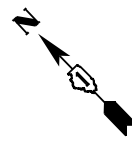
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**US 14 - DIVISION STREET: IL ROUTE 23 TO EAST OF PARK LANE DR.
ROADWAY AND PAVEMENT MARKING PLAN**

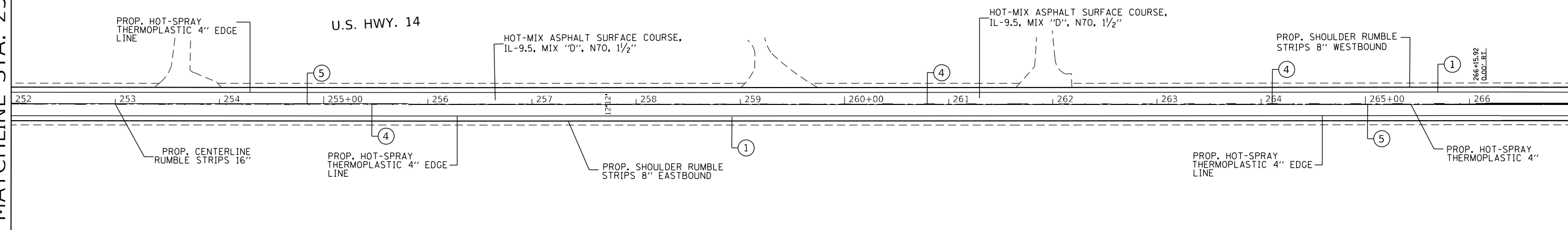
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F.A.P. RTE. 305	SECTION FAP 0305 22 RS2	COUNTY MCHENRY	TOTAL SHEETS 34	SHEET NO. 12
ILLINOIS FED. AID PROJECT			CONTRACT NO. 62T64	



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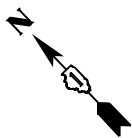
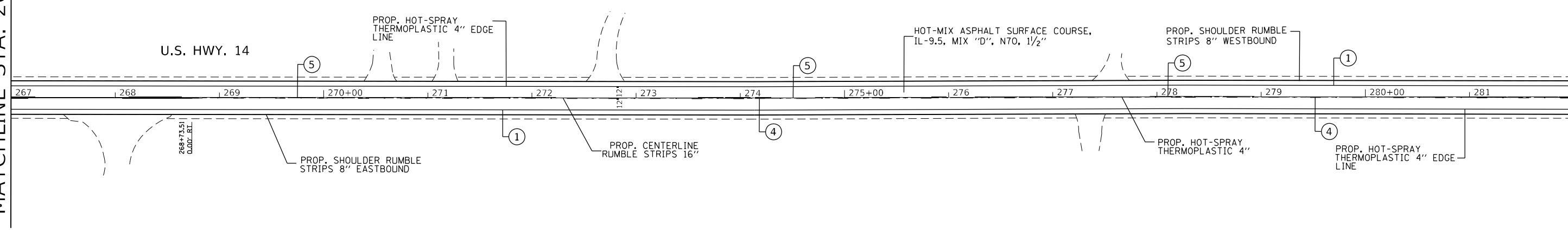


PAVEMENT MARKING LEGEND

- ① PROP. THERMOPLASTIC PAVEMENT MARKING-LINE 4", EDGE LINE WHITE (TYP.)
- ② PROP. THERMOPLASTIC PAVEMENT MARKING CENTERLINE 2 @ 4" @ 11" C-C, YELLOW (TYP.)
- ③ PROP. THERMOPLASTIC PAVEMENT MARKING DOUBLE LINES MEDIANS 4" @ 11" C-C, YELLOW (TYP.)
- ④ PROP. THERMOPLASTIC PAVEMENT MARKING-LINE 4", 10' DASH-30' SKIP, YELLOW (TYP.)
- ⑤ PROP. THERMOPLASTIC PAVEMENT MARKING - CENTERLINE 4", SOLID YELLOW (TYP.)
- ⑥ PROP. THERMOPLASTIC PLASTIC PAVEMENT TURN LANE MARKING-LINE 6", WHITE (TYP.)
- ⑦ PROP. THERMOPLASTIC PAVEMENT MARKING-LINE 6", 2' DASH-6' SKIP, WHITE (TYP.)
- ⑧ PROP. THERMOPLASTIC PAVEMENT MARKING 8" GORE MARKING AND CHANNELIZING LINES (TYP.)
- ⑨ PROP. THERMOPLASTIC PAVEMENT MARKING-LINE 12", DIAGONAL @ 45° YELLOW (TYP.) (5 MINIMUM EQUALLY SPACED)
- ⑩ PROP. THERMOPLASTIC PAVEMENT MARKING-LINE 12", DIAGONAL @ 10' OR LESS WHITE (TYP.)
- ⑪ PROP. THERMOPLASTIC PAVEMENT MARKING-LINE 24", STOP LINES, WHITE (TYP.)
- ⑫ PROP. THERMOPLASTIC PAVEMENT MARKING LETTERS AND SYMBOLS, WHITE (TYP.)

MATCHLINE STA. 267+00

MATCHLINE STA. 282+00



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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

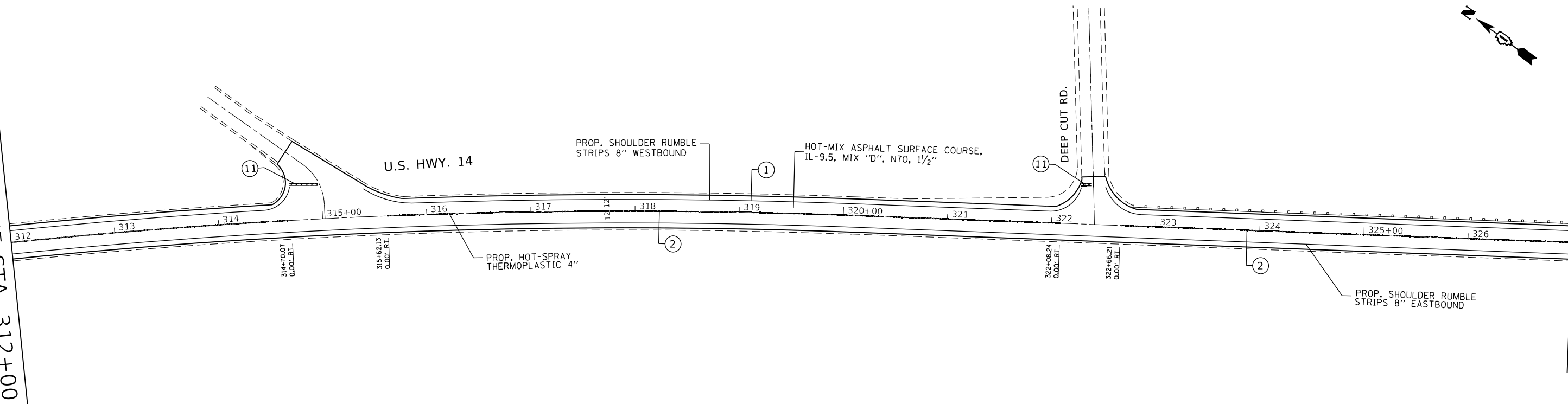
**US 14 - DIVISION STREET: IL ROUTE 23 TO EAST OF PARK LANE DR.
ROADWAY AND PAVEMENT MARKING PLAN**

SCALE: SHEET 9 OF 15 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 62T64			ILLINOIS FED. AID PROJECT	

MATCHLINE STA. 312+00

MATCHLINE STA. 327+00

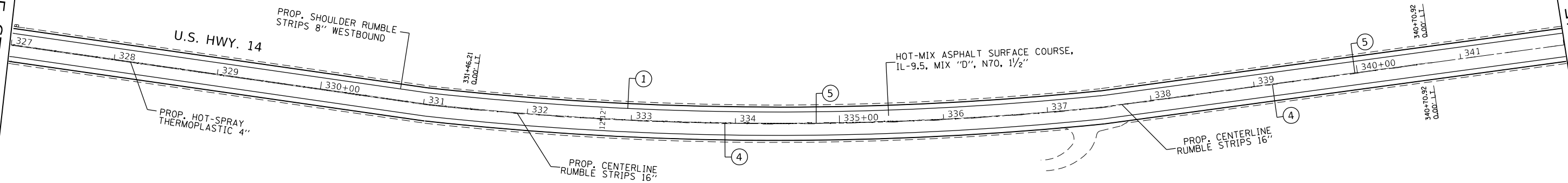


PAVEMENT MARKING LEGEND

- ① PROP. THERMOPLASTIC PAVEMENT MARKING-LINE 4", EDGE LINE WHITE (TYP.)
- ② PROP. THERMOPLASTIC PAVEMENT MARKING CENTERLINE 2 @ 4" @ 11" C-C, YELLOW (TYP.)
- ③ PROP. THERMOPLASTIC PAVEMENT MARKING DOUBLE LINES MEDIANS 4" @ 11" C-C, YELLOW (TYP.)
- ④ PROP. THERMOPLASTIC PAVEMENT MARKING-LINE 4", 10' DASH-30' SKIP, YELLOW (TYP.)
- ⑤ PROP. THERMOPLASTIC PAVEMENT MARKING - CENTERLINE 4", SOLID YELLOW (TYP.)
- ⑥ PROP. THERMOPLASTIC PLASTIC PAVEMENT TURN LANE MARKING-LINE 6", WHITE (TYP.)
- ⑦ PROP. THERMOPLASTIC PAVEMENT MARKING-LINE 6", 2' DASH-6' SKIP, WHITE (TYP.)
- ⑧ PROP. THERMOPLASTIC PAVEMENT MARKING 8" GORE MARKING AND CHANNELIZING LINES (TYP.)
- ⑨ PROP. THERMOPLASTIC PAVEMENT MARKING-LINE 12", DIAGONAL @ 45° YELLOW (TYP.) (5 MINIMUM EQUALLY SPACED)
- ⑩ PROP. THERMOPLASTIC PAVEMENT MARKING-LINE 12", DIAGONAL @ 10' OR LESS WHITE (TYP.)
- ⑪ PROP. THERMOPLASTIC PAVEMENT MARKING-LINE 24", STOP LINES, WHITE (TYP.)
- ⑫ PROP. THERMOPLASTIC PAVEMENT MARKING LETTERS AND SYMBOLS, WHITE (TYP.)

MATCHLINE STA. 327+00

MATCHLINE STA. 342+00



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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

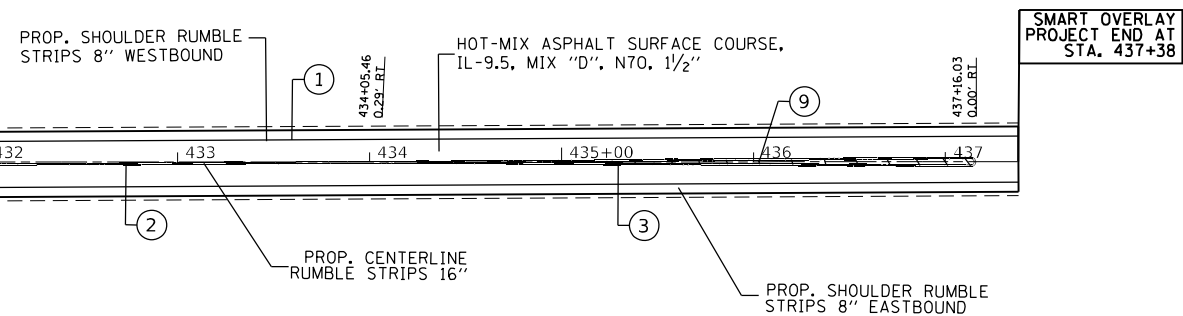
**US 14 - DIVISION STREET: IL ROUTE 23 TO EAST OF PARK LANE DR.
ROADWAY AND PAVEMENT MARKING PLAN**

SCALE: SHEET 11 OF 15 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
305	FAP 0305 22 RS2	MCHENRY	34	17
			CONTRACT NO. 62T64	
ILLINOIS FED. AID PROJECT				



MATCHLINE STA. 431+65



PAVEMENT MARKING LEGEND

- | | |
|---|--|
| ① PROP. THERMOPLASTIC PAVEMENT MARKING-LINE 4", EDGE LINE WHITE (TYP.) | ⑦ PROP. THERMOPLASTIC PAVEMENT MARKING-LINE 6", 2' DASH-6' SKIP, WHITE (TYP.) |
| ② PROP. THERMOPLASTIC PAVEMENT MARKING CENTERLINE 2 @ 4" @ 11" C-C, YELLOW (TYP.) | ⑧ PROP. THERMOPLASTIC PAVEMENT MARKING 8" GORE MARKING AND CHANNELIZING LINES (TYP.) |
| ③ PROP. THERMOPLASTIC PAVEMENT MARKING DOUBLE LINES MEDIANS 4" @ 11" C-C, YELLOW (TYP.) | ⑨ PROP. THERMOPLASTIC PAVEMENT MARKING-LINE 12", DIAGONAL @ 45° YELLOW (TYP.) (5 MINIMUM EQUALLY SPACED) |
| ④ PROP. THERMOPLASTIC PAVEMENT MARKING-LINE 4", 10' DASH-30' SKIP, YELLOW (TYP.) | ⑩ PROP. THERMOPLASTIC PAVEMENT MARKING-LINE 12", DIAGONAL @ 10' OR LESS WHITE (TYP.) |
| ⑤ PROP. THERMOPLASTIC PAVEMENT MARKING - CENTERLINE 4", SOLID YELLOW (TYP.) | ⑪ PROP. THERMOPLASTIC PAVEMENT MARKING-LINE 24", STOP LINES, WHITE (TYP.) |
| ⑥ PROP. THERMOPLASTIC PLASTIC PAVEMENT TURN LANE MARKING-LINE 6", WHITE (TYP.) | ⑫ PROP. THERMOPLASTIC PAVEMENT MARKING LETTERS AND SYMBOLS, WHITE (TYP.) |

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**US 14 - DIVISION STREET: IL ROUTE 23 TO EAST OF PARK LANE DR.
ROADWAY AND PAVEMENT MARKING PLAN**

SCALE: SHEET 15 OF 15 SHEETS STA. TO STA.

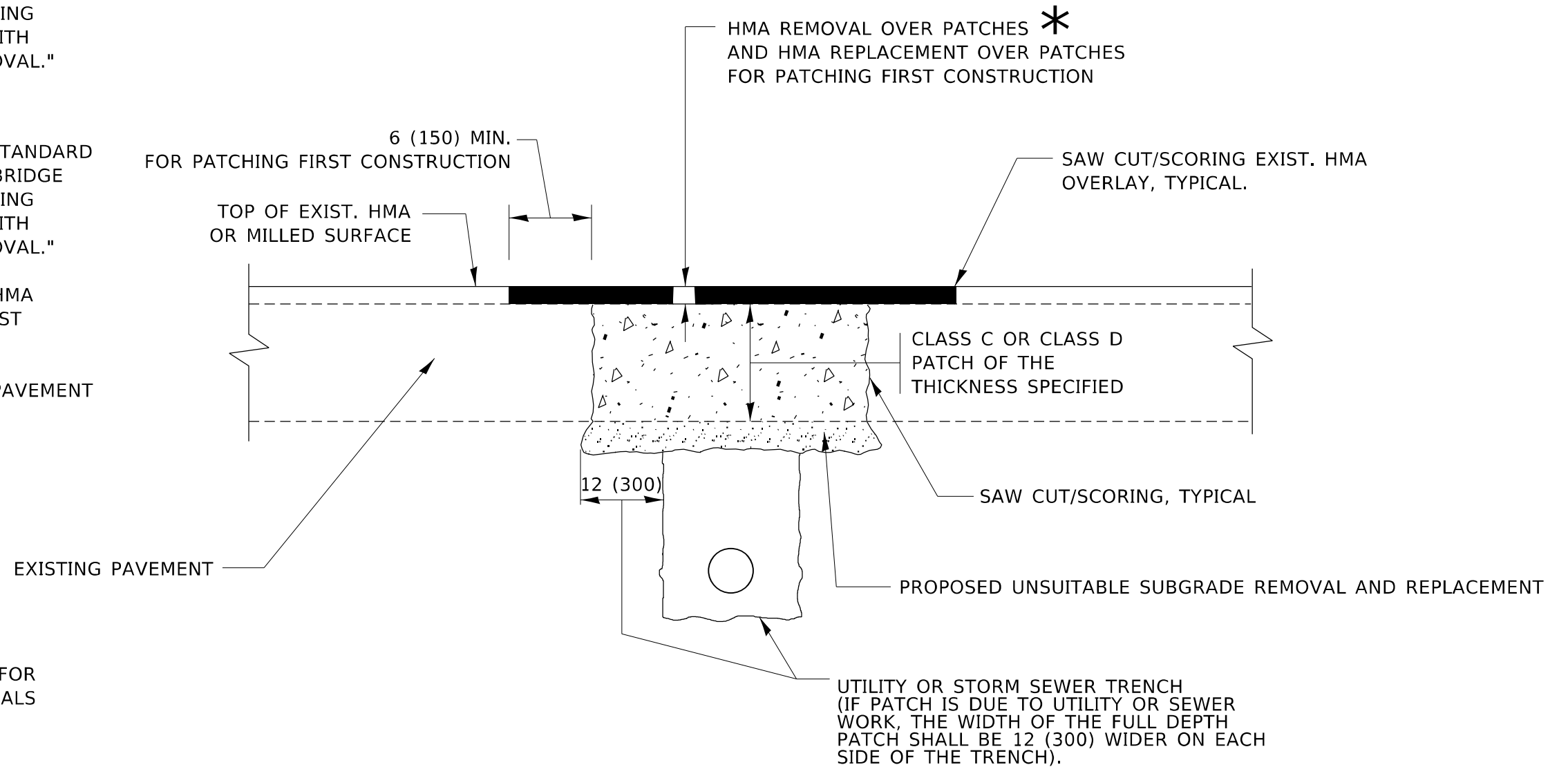
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305	FAP 0305 22 RS2	MCHENRY	34	21
ILLINOIS FED. AID PROJECT			CONTRACT NO. 62T64	

METHOD OF MEASUREMENT

REFER TO SECTION 442 OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND THE RECURRING SPECIAL PROVISION "PATCHING WITH HOT-MIX ASPHALT OVERLAY REMOVAL."

BASIS OF PAYMENT

1. REFER TO SECTION 442 OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND THE RECURRING SPECIAL PROVISION "PATCHING WITH HOT-MIX ASPHALT OVERLAY REMOVAL."
2. SAW CUT/SCORING OF EXISTING HMA OVERLAY IS INCLUDED IN THE COST OF PAVEMENT PATCHING.
3. SAW CUT/SCORING OF EXISTING PAVEMENT IS INCLUDED IN THE COST OF PAVEMENT PATCHING.



* SEE TYPICAL SECTIONS FOR THICKNESS AND MATERIALS

SEQUENCE OF CONSTRUCTION (PATCHING FIRST)

1. REMOVE THE EXISTING HMA MATERIAL OVER THE AREA TO BE PATCHED.
2. REMOVE AND REPLACE WITH CLASS C OR D PATCH.
3. REPLACE HMA MATERIAL OVER THE AREA TO BE PATCHED.

SEQUENCE OF CONSTRUCTION (MILLING FIRST)

1. MILL HMA FIRST IF THERE IS AT LEAST 4½ INCHES OR MORE OF HMA MATERIAL ON TOP OF THE EXISTING PAVEMENT OR IF THE PAVEMENT IS FULL DEPTH HMA. A MINIMUM OF 2 INCHES OF HMA MATERIAL SHALL BE IN PLACE AFTER MILLING.
2. REMOVE AND REPLACE WITH FULL DEPTH CLASS D PATCHES TO TOP OF MILLED SURFACE.

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

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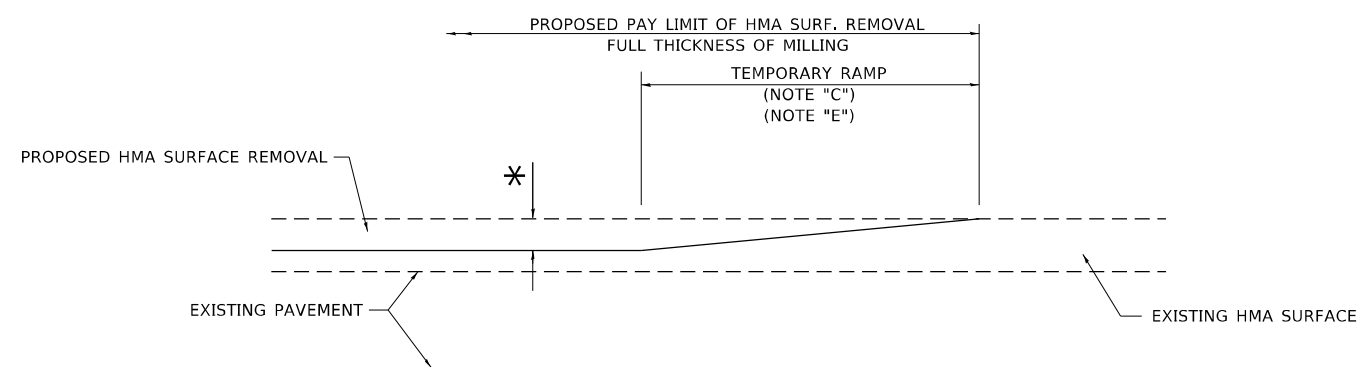
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PAVEMENT PATCHING FOR
HMA SURFACED PAVEMENT**

SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA.

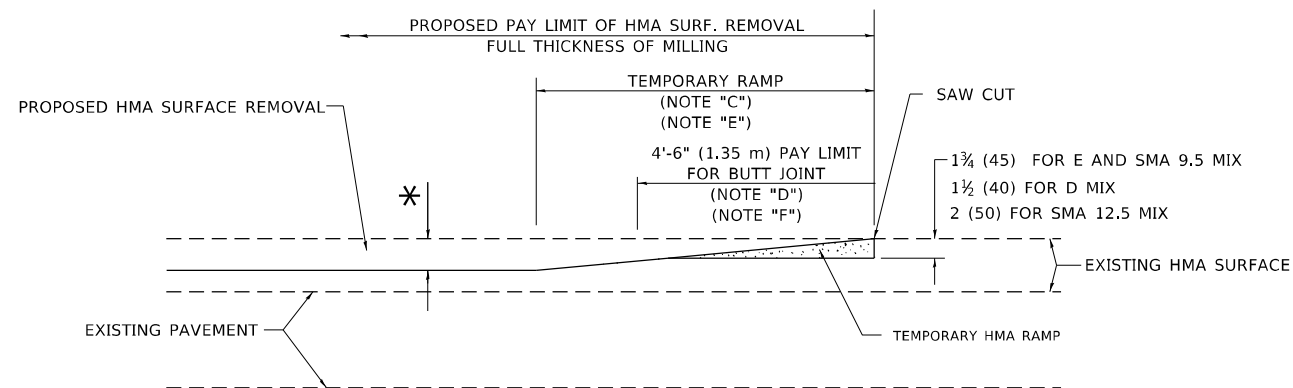
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
305	FAP 0305 22 R52	MCHENRY	34	25
BD400-04 (BD-22)			CONTRACT NO. 62T64	
ILLINOIS FED. AID PROJECT				



MILLED TEMPORARY RAMP

(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

OPTION 1

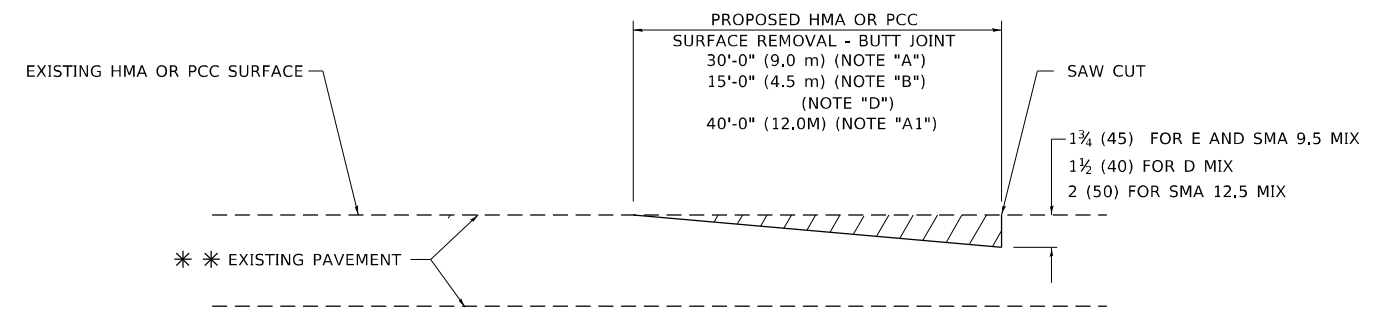


HMA CONSTRUCTED TEMPORARY RAMP

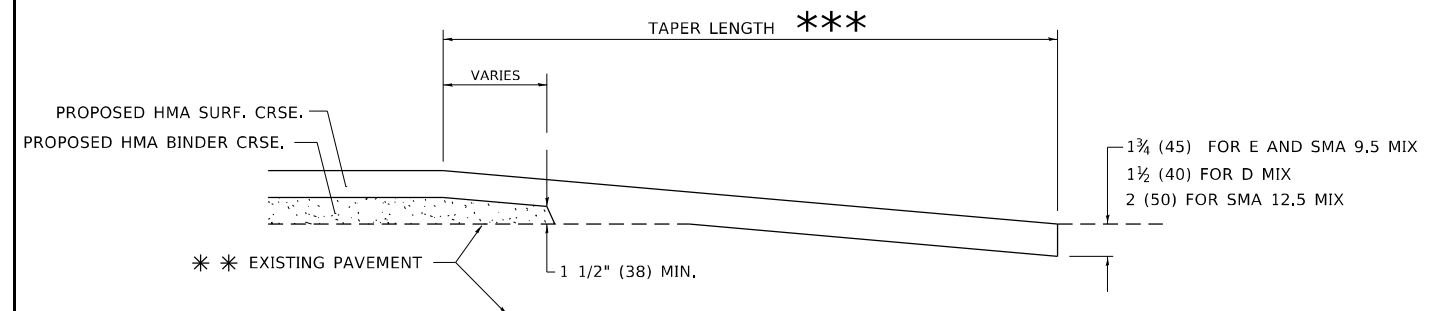
(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

OPTION 2

TYPICAL TEMPORARY RAMP



BUTT JOINT DETAIL



HMA TAPER DETAIL

TYPICAL BUTT JOINT AND HMA TAPER FOR RESURFACING ONLY

** PC CONCRETE, HMA OR HMA RESURFACED PAVEMENT.

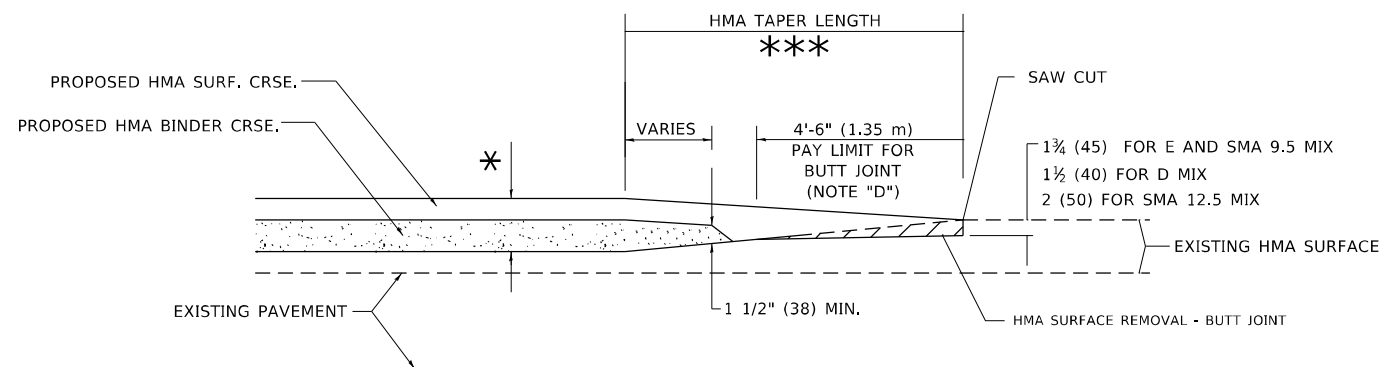
GENERAL NOTES

- A. MAINLINE ARTERIAL ROADWAYS AND MAJOR SIDE ROADS.
- A1. INTERSTATES
- B. MINOR SIDE ROADS.
- C. THE TEMP. RAMP SHALL BE CONSTRUCTED IMMEDIATELY UPON REMOVAL OF THE EXISTING HMA SURFACE.
- D. THE BUTT JOINT SHALL BE CONSTRUCTED IMMEDIATELY PRIOR TO PLACING THE PROPOSED HMA COURSES.
- E. TAPER THE TEMP. RAMP AT A RATE OF 3' - 4" (1.02m) PER 1 INCH (25 mm) OF MILLING THICKNESS.
* SEE TYPICAL SECTIONS FOR MILLING THICKNESS.
- F. SEE ARTICLE 406.08 AND 406.14 OF THE STANDARD SPECIFICATIONS FOR "HMA AND/OR PCC SURFACE REMOVAL, BUTT JOINT".
*** 20'-0" (6.1 m) PER 1 (25) RESURFACING (NOTE "A")
10'-0" (3.0 m) PER 1 (25) RESURFACING (NOTE "B")

BASIS OF PAYMENT

- 1. THE BUTT JOINT WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER SQUARE YARD (SQUARE METER) FOR "HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT" OR FOR "PORTLAND CEMENT CONCRETE SURFACE REMOVAL- BUTT JOINT".
- 2. THE TEMPORARY RAMP AND SAW CUT SHALL BE INCLUDED IN THE UNIT COST FOR HMA OR PCC SURFACE REMOVAL-BUTT JOINT.

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



BUTT JOINT AND HMA TAPER

TYPICAL BUTT JOINT AND HMA TAPER FOR MILLING AND RESURFACING

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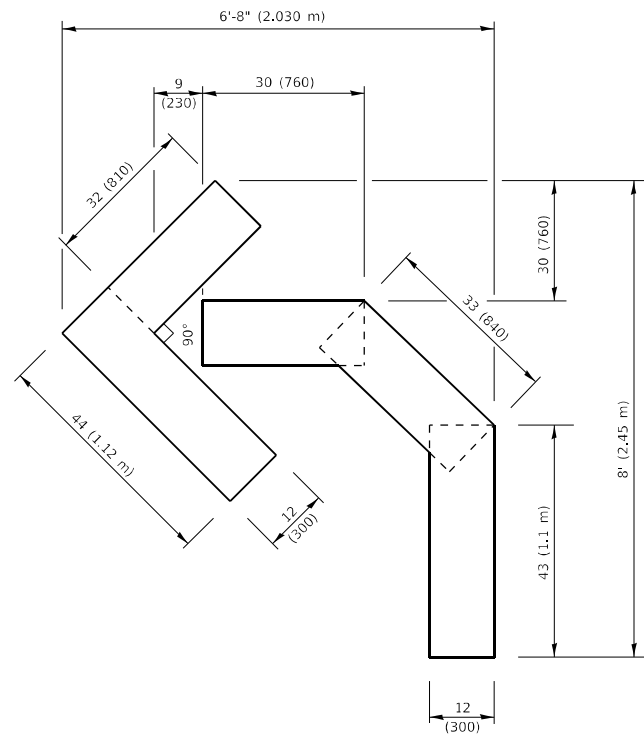
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	DRAWN -	REVISED - M. GOMEZ 04-06-01
PLOT SCALE = 100,0000' / in.	CHECKED -	REVISED - R. BORO 01-01-07
PLOT DATE = 6/30/2023	DATE - 06-13-90	REVISED - K. SMITH 11-18-22

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BUTT JOINT AND
HMA TAPER DETAILS

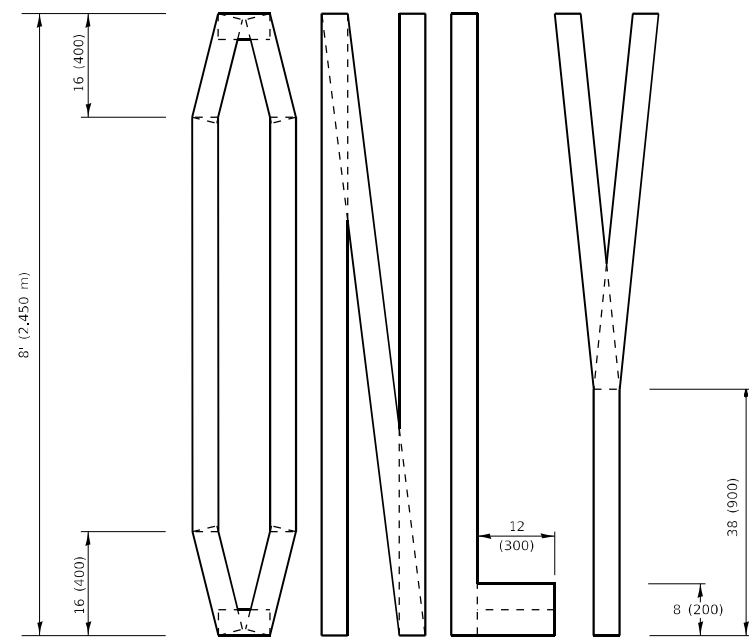
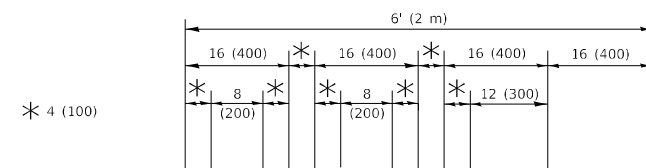
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
305	FAP 0305 22 R52	MCHENRY	34	26
BD400-05 BD-32		CONTRACT NO. 62T64		
ILLINOIS FED. AID PROJECT				



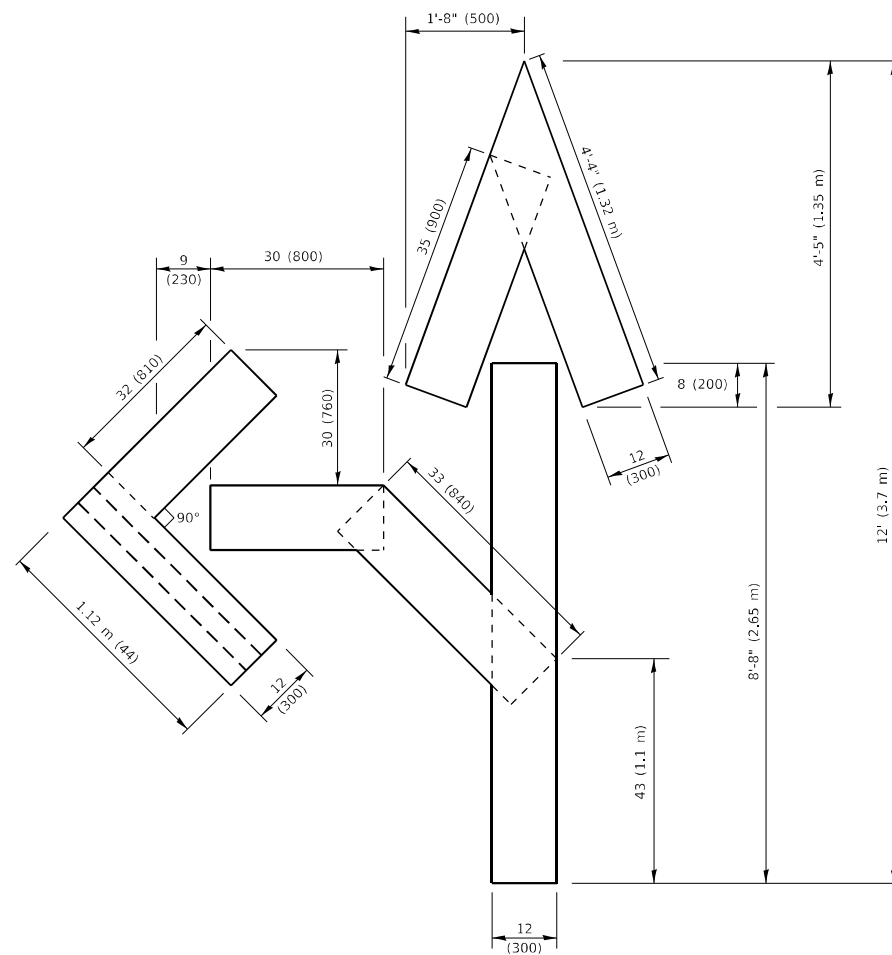
QUANTITY

4 (100) LINE = 45.5 ft. (13.9 m)
15.2 sq. ft. (1.41 sq. m)



QUANTITY

4 (100) LINE = 64.1 ft. (19.5 m)
21.4 sq. ft. (1.99 sq. m)

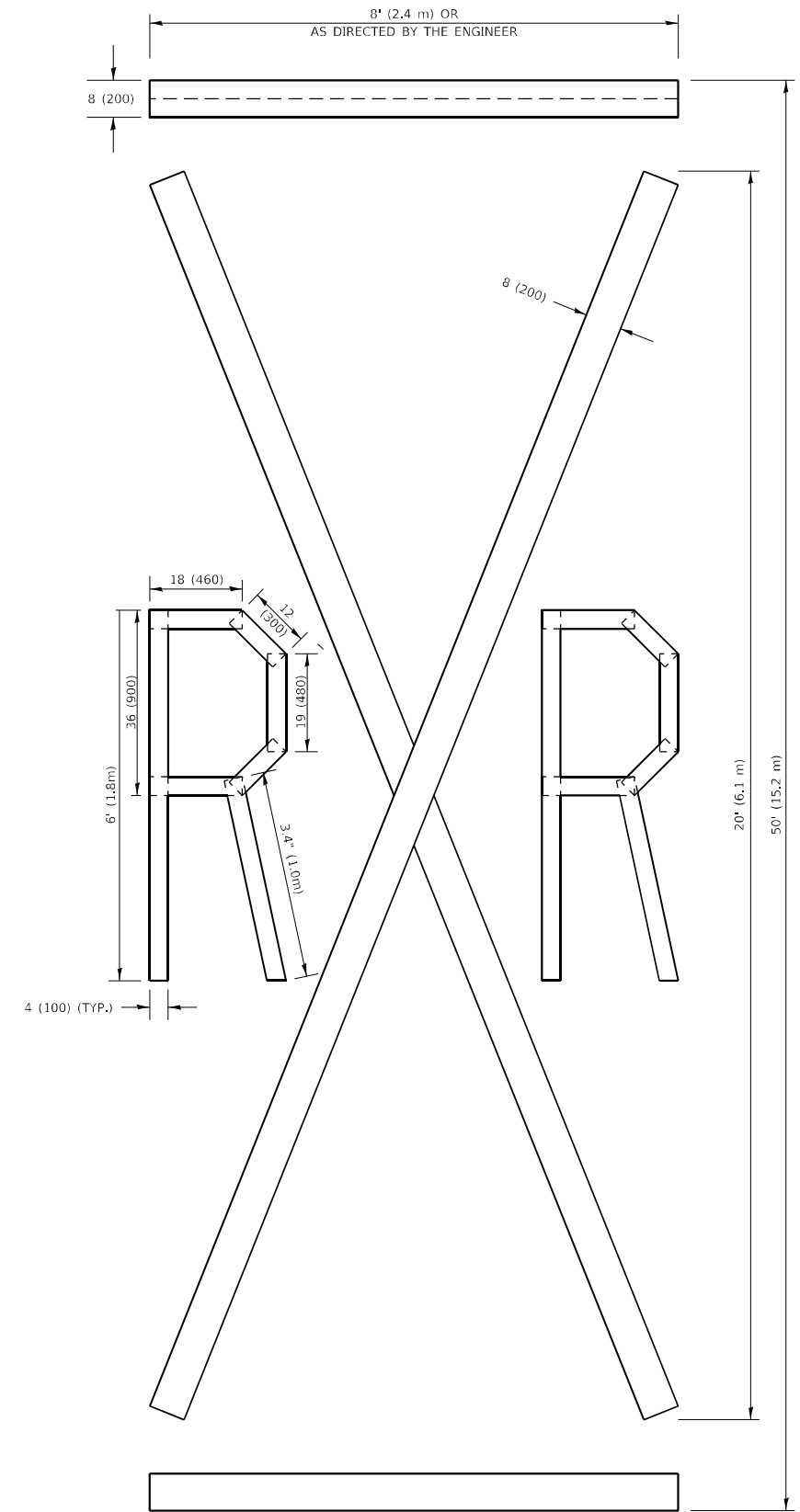


QUANTITY

4 (100) LINE = 82.5 ft. (25.1 m)
27.5 sq. ft. (2.53 sq. m)

NOTE:

ALL QUANTITIES OF PLACEMENT ARE REPRESENTED IN LINEAR FEET OF 4" LINES TO MATCH THE 4" TEMPORARY TAPE PAY ITEM AND REPRESENTS THE TOTAL QUANTITY OF 4" TAPE REQUIRED.



QUANTITY

4 (100) LINE = 225.9 ft. (68.9 m)
75.3 sq. ft. (6.99 sq. m)

All dimensions are in inches (millimeters) unless otherwise shown.

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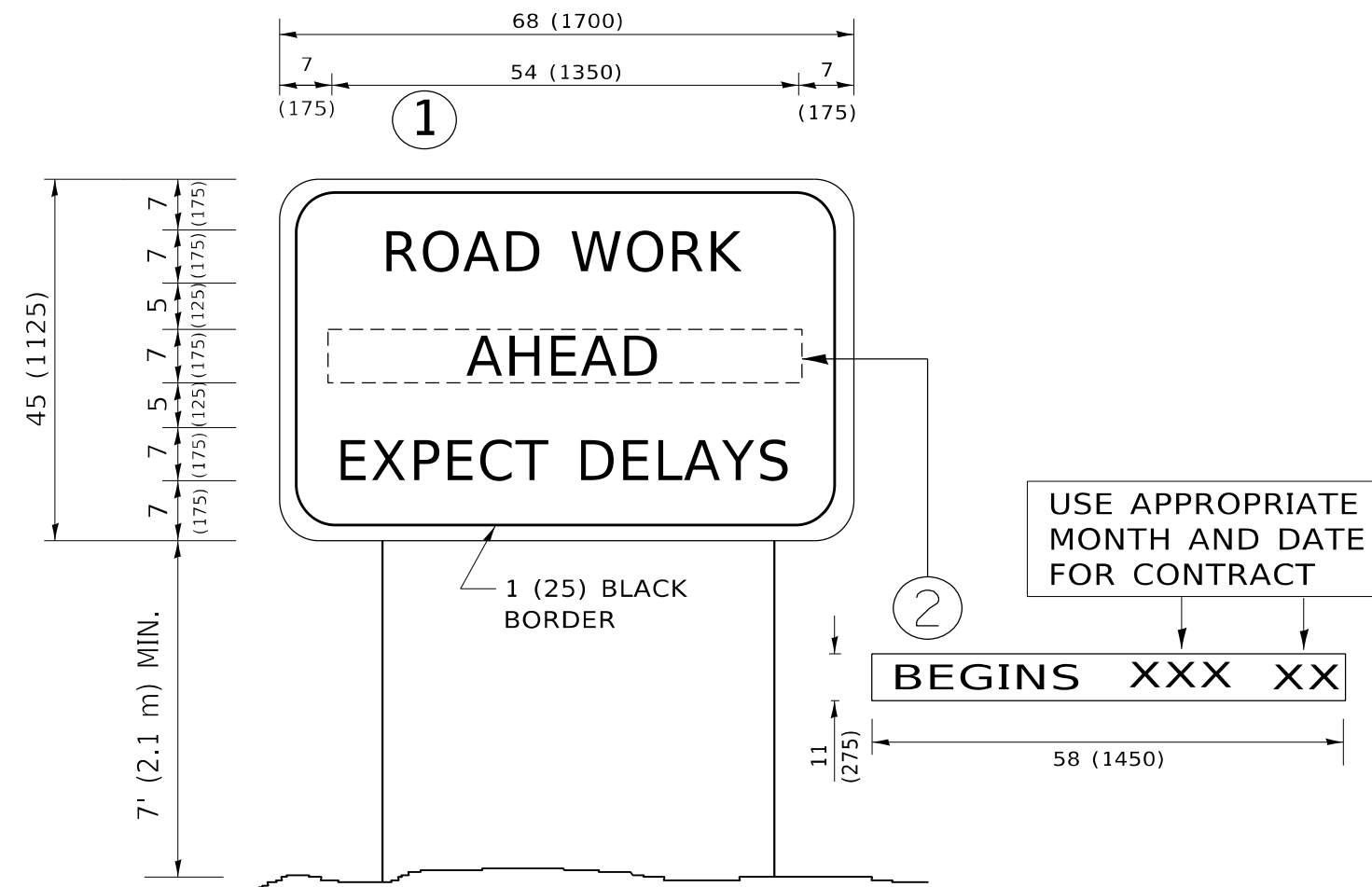
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	DRAWN -	REVISED - E. GOMEZ 08-28-00
PLOT SCALE = 100,0000 ' / in.	CHECKED -	REVISED - E. GOMEZ 08-28-00
PLOT DATE = 6/30/2023	DATE - 09-18-94	REVISED - A. SCHUETZE 09-15-16

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SHORT TERM PAVEMENT MARKING LETTERS AND SYMBOLS

SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
305	FAP 0305 22 RS2	MCHENRY	34	31
TC-16			CONTRACT NO. 62T64	
ILLINOIS FED. AID PROJECT				



NOTES:

1. USE BLACK LETTERING ON ORANGE BACKGROUND.
2. ERECT SIGNS IN ADVANCE OF THE LOCATION FOR THE "ROAD CONSTRUCTION AHEAD" SIGN AT LOCATIONS AS DIRECTED BY THE ENGINEER.
3. ERECT SIGN ① WITH INSTALLED PANEL ② ONE WEEK PRIOR TO THE START OF CONSTRUCTION.
4. REMOVE PANEL ② SOON AFTER THE START OF CONSTRUCTION.
5. SEE SPECIAL PROVISION FOR "TEMPORARY INFORMATION SIGNING" FOR ADDITIONAL INFORMATION.
6. ONE SIGN ASSEMBLY EQUALS 25.70 SQ. FT. (2.3 SQ. M.)
7. SHALL BE PAID FOR AS TEMPORARY INFORMATION SIGNING.

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

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USER NAME = Nedal.Qanit	DESIGNED -	REVISED - R. MIRS 09-15-97
	DRAWN -	REVISED - R. MIRS 12-11-97
PLOT SCALE = 100,0000 ' / in.	CHECKED -	REVISED - T. RAMMACHER 02-02-99
PLOT DATE = 6/30/2023	DATE -	REVISED - C. JUCIUS 01-31-07

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

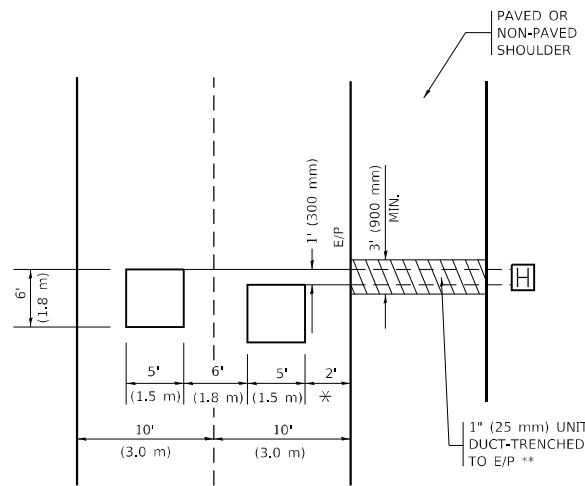
**ARTERIAL ROAD
INFORMATION SIGN**

SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
305	FAP 0305 22 R52	MCHENRY	34	32
TC-22			CONTRACT NO. 62T64	
ILLINOIS FED. AID PROJECT				

LOOPS NEXT TO SHOULDERS

PROVIDE A PAVEMENT REPLACEMENT NOTE WHICH SHOULD EQUAL 3' (900 mm) X WIDTH OF PAVED SHOULDER.

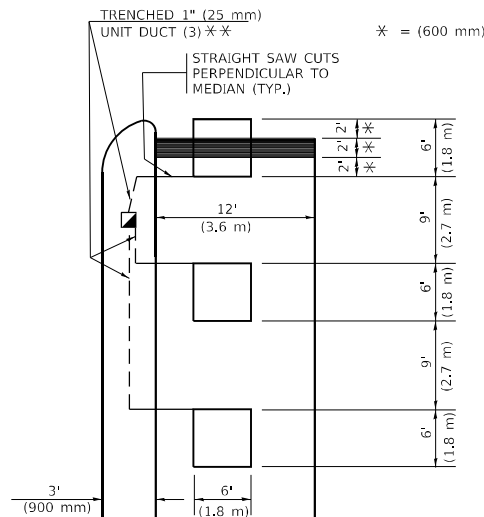


* = (600 mm)

** UNIT DUCT IS TO BE SHOWN ON PLAN SHEETS BUT SHALL NOT BE INCLUDED IN THE PAY ITEMS.

LEFT TURN LANES WITH MEDIANS
VOLUME DENSITY ("FAR OUT" DETECTION)
ON SAME APPROACH
(PROTECTED / PERMITTED LEFT TURN PHASING)

HANDHOLE LOCATION MAY VARY DEPENDING ON GEOMETRICS AND DESIGN OF TRAFFIC SIGNALS. HEAVY-DUTY HANDHOLES TO BE USED WHEN THE MEDIAN IS MOUNTABLE. REFER TO STANDARD 814001 TO ENSURE THAT HANDHOLE FITS IN MEDIAN.

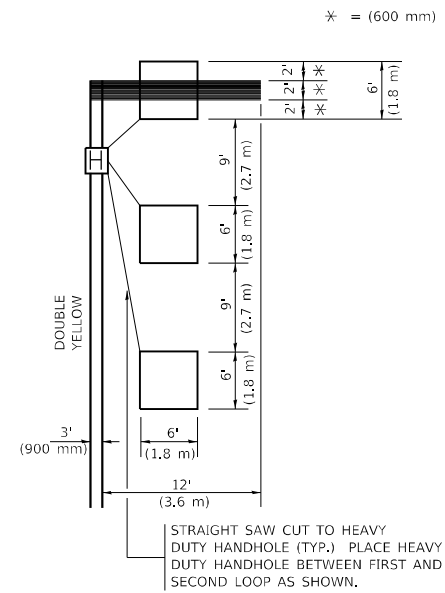


* = (600 mm)

** UNIT DUCT IS TO BE SHOWN ON PLAN SHEETS BUT SHALL NOT BE INCLUDED IN THE PAY ITEMS.

NOTE: DUAL LEFT TURNS NOT SHOWN REFER TO PLAN SHEET FOR DETECTOR LOOP REPLACEMENT

LEFT TURN LANES WITHOUT MEDIANS
VOLUME DENSITY ("FAR OUT" DETECTION)
ON SAME APPROACH
(PROTECTED / PERMITTED LEFT TURN PHASING)



* = (600 mm)

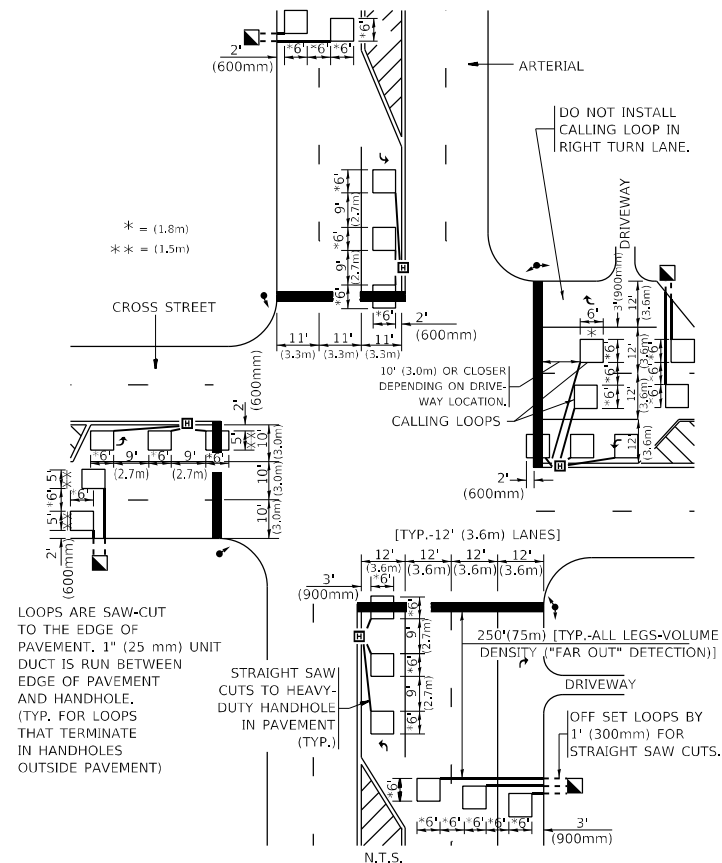
NOTE: DUAL LEFT TURNS NOT SHOWN REFER TO PLAN SHEET FOR DETECTOR LOOP REPLACEMENT

NOTES:

VEHICLES LOOP DETECTORS

- * ALL LEAD IN CABLE SHALL BE TWO CONDUCTOR NO. 14 TWISTED, SHIELDED.
- * EACH DETECTOR LOOP SHALL HAVE ITS OWN SAW CUT FROM THE LOOP TO THE EDGE OF PAVEMENT OR TO A HANDHOLE IN THE PAVEMENT.
- * EACH DETECTOR LOOP SHALL HAVE ITS OWN ONE INCH (25 mm) UNIT DUCT BETWEEN THE EDGE OF PAVEMENT AND THE FIRST HANDHOLE OR JUNCTION BOX. EACH UNIT DUCT RUN SHALL BE SHOWN ON THE PLANS BY THE DESIGNER, BUT SHALL NOT BE PAID FOR SEPARATLY. THIS ITEM IS INCIDENTAL TO THE PAY ITEM FOR DETECTOR LOOPS.
- * ONE DIMENSION OF ALL DETECTOR LOOPS SHALL BE SIX FEET (1.8 m)
- * EACH LANE OF NON-LOCKING, PRESENCE DETECTION AND EACH LANE OF A DOUBLE LEFT TURN LANE REQUIRES A SEPARATE INDUCTIVE LOOP DETECTOR AND LEAD IN CABLE.
- * WHEN NON-LOCKING, PRESENCE DETECTION IS USED, MORE THAN ONE LOOP PER LANE IS REQUIRED BEHIND THE STOP BAR (i.e. 1-1/2, 1-3/4, 2).
- * WHEN SYSTEM LOOPS ARE REQUIRED ON AN APPROACH OF AN INTERSECTION, THE LOOPS USED FOR VOLUME DENSITY AND INTERSECTION TIMING SHALL ALSO BE USED AS SYSTEM DETECTORS. EACH ONE OF THESE TYPE OF LOOPS REQUIRES A SEPARATE TWO CONDUCTOR NO. 14 TWISTED SHIELDED CABLE AND A SEPARATE INDUCTIVE LOOP DETECTOR WHEN NEW CONTROLLERS ARE UTILIZED. THE DESIGNER SHALL LABEL THESE TYPES OF LOOPS AS "INTERSECTION AND SAMPLING (SYSTEM) DETECTORS" ON THE SIGNAL LAYOUT, THE INTERCONNECT PLAN AND THE SYSTEM CABLE PLAN. WHEN AN EXISTING CONTROLLER IS UTILIZED FOR THIS TYPE OF DETECTION, THE PAY ITEM "INDUCTIVE LOOP DETECTOR WITH SYSTEM OUTPUT" SHOULD BE USED.

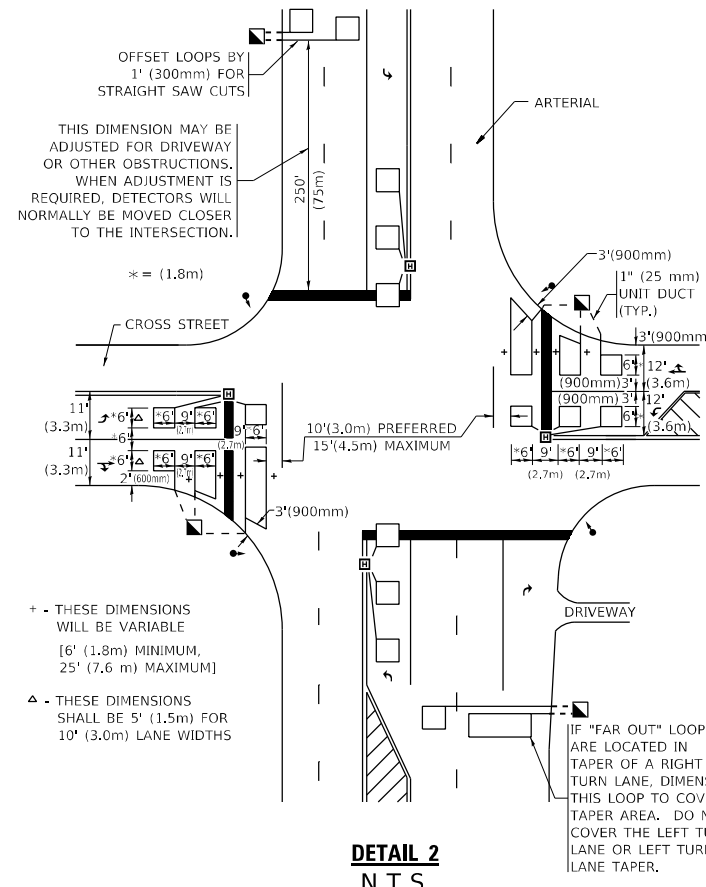
ARTERIAL-VOLUME DENSITY ("FAR OUT" DETECTION)
CROSS STREET-NON VOLUME DENSITY ("FAR OUT" DETECTION)



* = (1.8m)
 ** = (1.5m)

DETAIL 1
 N.T.S.

ARTERIAL-VOLUME DENSITY ("FAR OUT" DETECTION)
CROSS STREET-NON VOLUME DENSITY ("UPTIGHT" PRESENCE DETECTION)



+ THESE DIMENSIONS WILL BE VARIABLE [6' (1.8m) MINIMUM, 25' (7.6 m) MAXIMUM]
 Δ THESE DIMENSIONS SHALL BE 5' (1.5m) FOR 10' (3.0m) LANE WIDTHS

DETAIL 2
 N.T.S.

PLACEMENT OF DETECTORS

THE FOLLOWING FIGURES REPRESENT THE MOST COMMON DETECTOR LOOP LOCATIONS AND SIZES. ADJUSTMENTS WILL BE NECESSARY FOR SPECIFIC GEOMETRIC CONSIDERATIONS.

LOCATIONS AND DEMENSIONS OF DETECTOR LOOPS ARE REQUIRED ON ALL SIGNAL LAYOUT PLAN SHEETS.

"FAR OUT" DETECTION REFERS TO LOCKING, PRESENCE TYPE DETECTION LOCATED IN THRU LANES, RIGHT TURN LANES, AND RIGHT TURN LANE TAPER AREAS (IF APPLICABLE), USUALLY 250' (75 m) IN ADVANCE OF STOP BARS. "UPTIGHT" DETECTION REFERS TO NON-LOCKING PRESENCE TYPE DETECTION LOCATED IN ALL LANES AND 10'-15' (3.0 m-4.5 m) BEHIND THE CROSSING STREET'S EDGE OF PAVEMENT EXTENDED.

NOTE:

ALL DETAILS AND NOTES SHOWN ARE FROM THE I.D.O.T. DISTRICT 1 TRAFFIC SIGNAL DESIGN GUIDELINES DATED JANUARY 1995

THIS DRAWING HAS BEEN PREPARED TO ASSIST THE RESIDENT ENGINEER FOR ALL ROADWAY RESURFACING OR S.M.A.R.T. PROJECTS WHERE THE DIMENSIONS ARE NOT SHOWN ON THE PLANS AND THE FINAL LOCATIONS FOR CROSSWALKS OR STOP BARS ARE NOT DETERMINED.

MODEL: Default
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USER NAME = Nedal.Qanit	DESIGNED -	REVISED -
PLOT SCALE = 100,0000' / in.	CHECKED - R.K.F.	REVISED -
PLOT DATE = 6/30/2023	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT 1 - DETECTOR LOOP INSTALLATION		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
DETAILS FOR ROADWAY RESURFACING		305	FAP 0305 22 RS2	MCHENRY	34	33
SCALE: NONE		TS-07		CONTRACT NO. 62T64		
SHEET 1	OF 1 SHEETS	STA.	TO STA.			
ILLINOIS FED. AID PROJECT						

