

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
303	FAP 0303 22 RS2	MCHENRY	21	1
		ILLINOIS	CONTRACT NO. 62R96	

FOR INDEX OF SHEETS, SEE SHEET NO.

THE IMPROVEMENT IS LOCATED IN THE CITY OF HARVARD & ALDEN TOWNSHIP

**PROPOSED  
HIGHWAY PLANS**

F.A.P. ROUTE 303: IL ROUTE 173  
NE OF RIGHEIMER RD. TO 0.2 MIS OF OAK GROVE RD.  
SECTION FAP 0303 22 RS2  
PROJECT NHPP-8AUC(505)  
SMART OVERLAY  
MCHENRY COUNTY

**TRAFFIC DATA:**

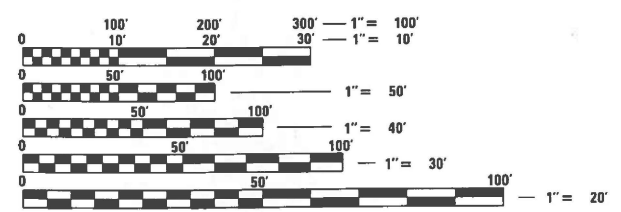
ADT 2023: 2,750 VPD  
SPEED LIMIT: 55 MPH

**DESIGN DESIGNATION:**

OTHER PRINCIPAL ARTERIAL

IMPROVEMENT ENDS  
STA. 17 + 76

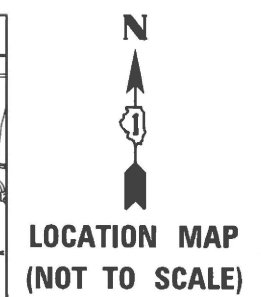
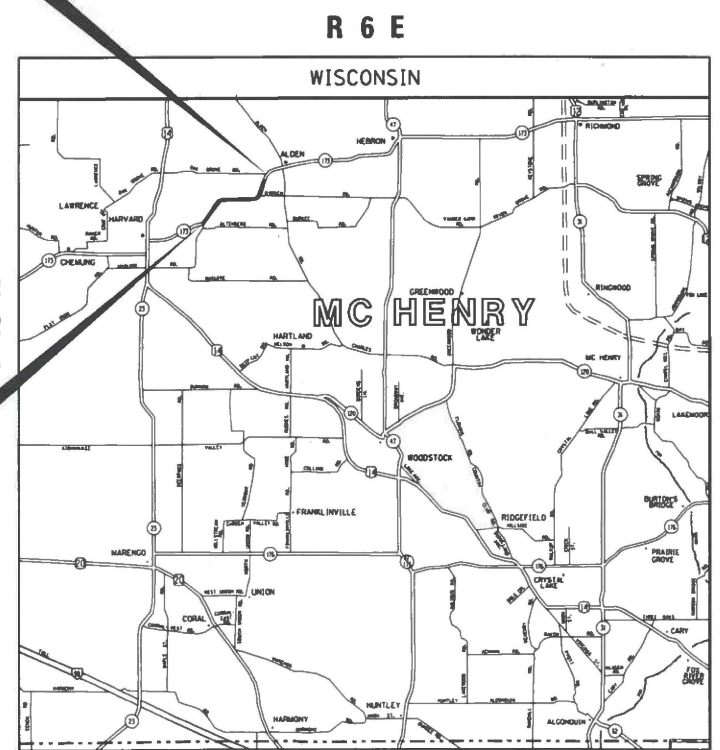
C-91-268-22



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  
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OR 811

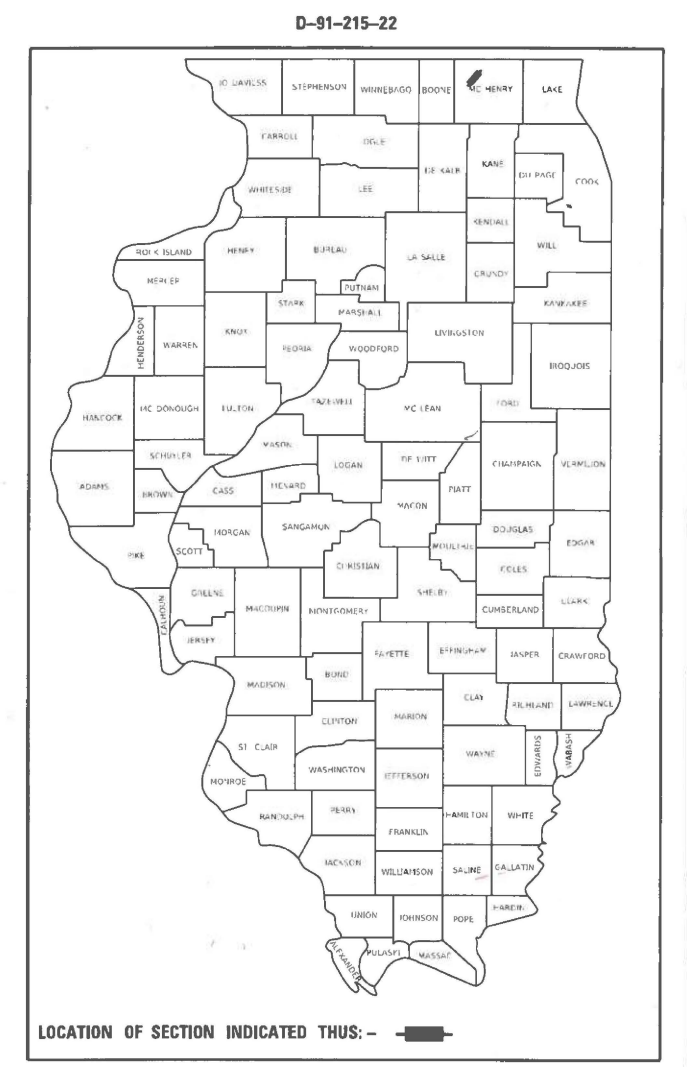
IMPROVEMENT BEGINS  
STA. 184 + 83



GROSS LENGTH AND NET LENGTH = 16,685.0 FT. = 3.16 MILES

PROJECT ENGINEER: LUKASZ POCIECHA (847) 705-4255  
PROJECT MANAGER: VESELIN VELICHKOV

CONTRACT NO. 62R96



STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SUBMITTED Dec 12 2024  
Jacek Rios IR  
REGIONAL ENGINEER

January 31 2025  
[Signature]  
ENGINEER OF DESIGN AND ENVIRONMENT

January 31 2025  
[Signature]  
DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

PRINTED BY THE AUTHORITY  
OF THE STATE OF ILLINOIS

**INDEX OF SHEETS**

SHEET NO.	DESCRIPTION
1	COVER SHEET
2	INDEX OF SHEETS, STANDARDS, GENERAL NOTES AND COMMITMENTS
3-4	SUMMARY OF QUANTITIES
5	TYPICAL SECTIONS
6-12	ROADWAY AND PAVEMENT MARKING PLANS
13	PAVEMENT PATCHING FOR HMA SURFACED PAVEMENT (BD-22)
14	BUTT JOINT AND HMA TAPER DETAILS (BD-32)
15	RUMBLE STRIPS FOR CENTERLINE, NON-FREEWAY (BD-55)
16	TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS (TC-10)
17	TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW) RESISTANT) (TC-11)
18	DISTRICT ONE TYPICAL PAVEMENT MARKINGS (TC-13)
19	SHORT TERM PAVEMENT MARKING LETTERS AND SYMBOLS (TC-16)
20	ARTERIAL ROAD INFORMATION SIGN (TC-22)
21	DRIVEWAY ENTRANCE SIGNING (TC-26)

**LIST OF STATE STANDARDS**

STANDARD NO.	DESCRIPTION
000001-08	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
442201-03	CLASS C AND D PATCHES
642001-03	SHOULDER RUMBLE STRIPS, 16 IN.
701006-05	OFF-RD OPERATIONS, 2L, 2W, 15' (4.5 m) TO 24" (600 mm) FROM PAVEMENT EDGE
701011-04	OFF-RD OPERATIONS, 2L, 2W, DAY ONLY
701201-05	LANE CLOSURE, 2L,2W DAY 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
701701-10	URBAN LANE CLOSURE, 2L, 2W, MULTILANE INTERSECTION
701901-10	TRAFFIC CONTROL DEVICES
780001-05	TYPICAL PAVEMENT MARKINGS
781001-04	TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS

**GENERAL NOTES**

- 1) THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON STATE PROPERTY WITHOUT WRITTEN PERMISSION FROM THE DEPARTMENT.
- 2) 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.
- 3) ALL PAVEMENT PATCHING LOCATIONS WILL BE DETERMINED IN THE FIELD BY THE RESIDENT ENGINEER.
- 4) IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND CONDITIONS EXISTING IN THE FIELD PRIOR TO CONSTRUCTION AND ORDERING OF MATERIALS.
- 5) 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.
- 6) THE RESIDENT ENGINEER SHALL CONTACT WALTER CZARNY, AREA TRAFFIC FIELD ENGINEER VIA EMAIL AT WALTER.CZARNY@ILLINOIS.GOV A MINIMUM OF TWO (2) WEEKS PRIOR TO THE PLACEMENT OF PERMANENT PAVEMENT MARKINGS.
- 7) PAVEMENT MARKING TAPE, TYPE IV SHALL BE USED FOR SHORT TERM PAVEMENT MARKINGS ON ALL FINAL SURFACES.
- 8) OVERNIGHT LANE CLOSURES SHALL NOT BE ALLOWED FOR THE REHABILITAION PROJECTS INVOLVING DAYTIME MILLING AND RESURFACING OPERATIONS AND CLASS D PATCHING UNLESS OTHER CONDITIONS WARRANT EXTENDED LANE CLOSURES AS DETERMINED AND APPROVED IN WRITING BY THE ENGINEER OR AS PROVIDED FOR IN THE CONTRACT SPECIFICATIONS.

**COMMITMENTS**

- 1) THERE ARE NO COMMITMENTS ON THIS PROJECT

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DRAWN -	REVISED -	303			FAP 0303 22 R52	MCHENRY	21	2	
PLOT SCALE = 100,0000 ' / in.	CHECKED -	REVISED -			CONTRACT NO. 62R96				
PLOT DATE = 10/30/2024	DATE -	REVISED -			SCALE:	SHEET 1 OF 1 SHEETS	STA. TO STA.	ILLINOIS FED. AID PROJECT	

SUMMARY OF QUANTITIES			TOTAL QUANTITIES	CONSTRUCTION TYPE CODE				
CODE NO	ITEM	UNIT		0005 80% FED 20% STATE ROADWAY				
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	29228	29228				
40600400	MIXTURE FOR CRACKS, JOINTS & FLANGEWAYS	TON	98	98				
40600370	LONGITUDINAL JOINT SEALANT	FOOT	17219	17219				
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SO YD	147	147				
40604062	HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N70	TON	5456	5456				
44000155	HOT-MIX ASPHALT SURFACE REMOVAL, 1 1/2"	SO YD	64951	64951				
44201765	CLASS D PATCHES, TYPE II, 10 INCH	SO YD	1250	1250				
44201769	CLASS D PATCHES, TYPE III, 10 INCH	SO YD	256	256				
48102100	AGGREGATE WEDGE SHOULDER, TYPE B	TON	270	270				
60920012	PIPE CULVERTS TO BE CLEANED 12"	FOOT	346	346				
64200116	SHOULDER RUMBLE STRIPS, 16 INCH	FOOT	32545	32545				
67100100	MOBILIZATION	L SUM	1	1				
70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	L SUM	1	1				
70100460	TRAFFIC CONTROL AND PROTECTION, STANDARD 701306	L SUM	1	1				

SUMMARY OF QUANTITIES			TOTAL QUANTITIES	CONSTRUCTION TYPE CODE				
CODE NO	ITEM	UNIT		0005 80% FED 20% STATE ROADWAY				
70100600	TRAFFIC CONTROL AND PROTECTION, STANDARD 701336	L SUM	1	1				
70102635	TRAFFIC CONTROL AND PROTECTION, STANDARD 701701	L SUM	1	1				
70300100	SHORT TERM PAVEMENT MARKING	FOOT	27810	27810				
70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SO FT	3090	3090				
70300211	TEMPORARY PAVEMENT MARKING LETTERS AND SYMBOLS - PAINT	SO FT	252	252				
70300221	TEMPORARY PAVEMENT MARKING - LINE 4"- PAINT	FOOT	163656	163656				
70300241	TEMPORARY PAVEMENT MARKING - LINE 6"- PAINT	FOOT	966	966				
70300281	TEMPORARY PAVEMENT MARKING - LINE 24"- PAINT	FOOT	372	372				
* 78000100	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	SO FT	84	84				
* 78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	33433	33433				
* 78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	322	322				

NON-PART 100% STATE  
\* = SPECIALTY ITEMS

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	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**IL. ROUTE 173 (RIGHEIMER RD. TO OAK GROVE RD.)  
SUMMARY OF QUANTITIES**

SCALE:	SHEET NO.	OF	SHEETS	STA.	TO	STA.	F.A.P. RTE. 303	SECTION FAP 0303 22 RS2	COUNTY MCHENRY	TOTAL SHEETS 21	SHEET NO. 3	FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT
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SUMMARY OF QUANTITIES				CONSTRUCTION TYPE CODE						SUMMARY OF QUANTITIES				CONSTRUCTION TYPE CODE					
CODE NO	ITEM	UNIT	TOTAL QUANTITIES	0005 80% FED 20% STATE ROADWAY						CODE NO	ITEM	UNIT	TOTAL QUANTITIES	0005 80% FED 20% STATE ROADWAY					
* 78000650	THERMOPLASTIC PAVEMENT MARKING - LINE	FOOT	124	124															
	24"																		
* 78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	424	424															
78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	374	374															
78300202	PAVEMENT MARKING REMOVAL - WATER BLASTING	SO FT	18677	18677															
X2020110	GRADING AND SHAPING SHOULDERS	UNIT	323	323															
X6420114	CENTER LINE - RUMBLE STRIP - 16"	FOOT	16707	16707															
X6700407	ENGINEER'S FIELD OFFICE, TYPE A (D1)	CAL MO	6	6															
X7800815	HOT SPRAY THERMOPLASTIC PAVEMENT MARKING LINE - 4'	FOOT	21119	21119															
Z0030850	TEMPORARY INFORMATION SIGNING	SO FT	70.2	70.2															

\* = SPECIALTY ITEMS

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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

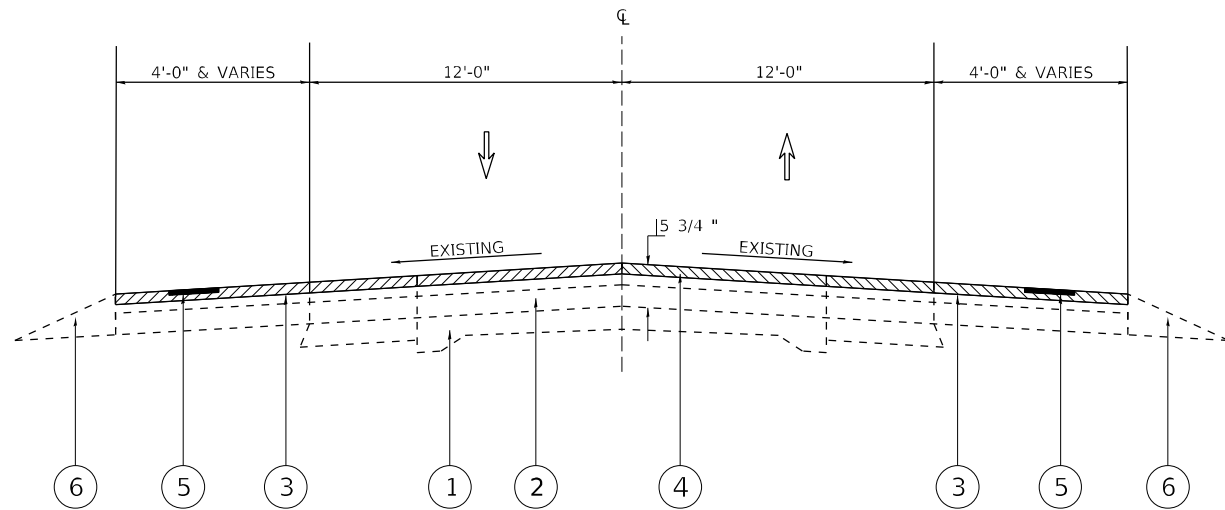
**IL. ROUTE 173 (RIGHEIMER RD. TO OAK GROVE RD.)  
SUMMARY OF QUANTITIES**

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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FED. ROAD DIST. NO. 1 (ILLINOIS) FED. AID PROJECT CONTRACT NO. 62R96

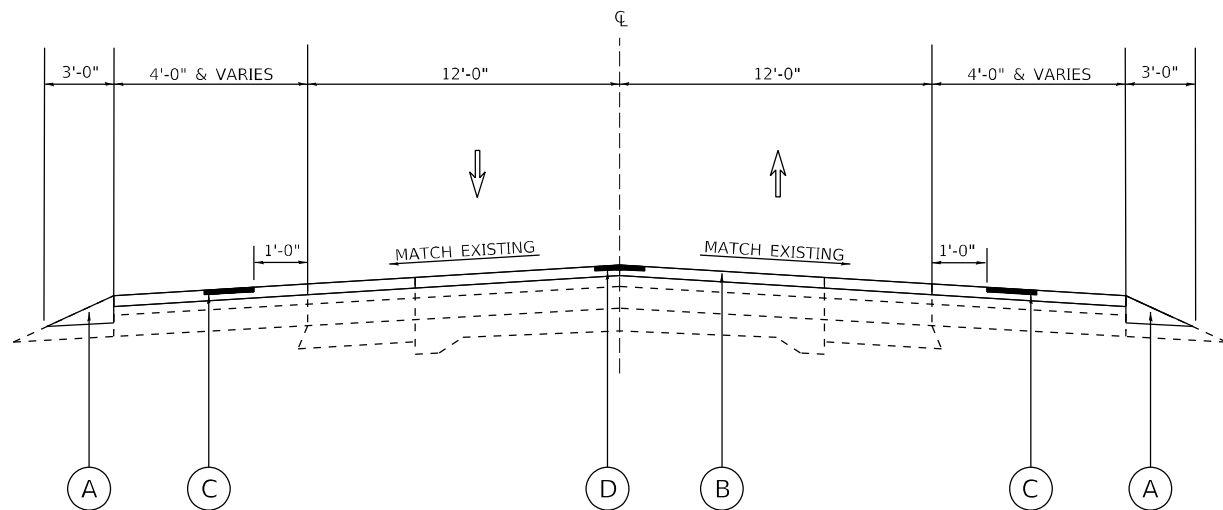
IL 173



**EXISTING TYPICAL SECTION**

STA. 17+76 TO STA. 184+82

IL 173



**PROPOSED TYPICAL SECTION**

STA. 17+76 TO STA. 184+82

**LEGEND - EXISTING**

- ① EXIST. P.C.C. PAVEMENT, ±10"
- ② EXIST. HOT-MIX ASPHALT PAVEMENT AFTER MILLING 4 1/4"
- ③ EXIST. HMA SHOULDER
- ④ HMA SURFACE REMOVAL 1 1/2 "
- ⑤ EXIST. SHOULDER RUMBLE STRIPS, 16"
- ⑥ EXIST. AGGREGATE WEDGE SHOULDER, TYPE B

**LEGEND - PROPOSED**

- Ⓐ PROP. AGGREGATE WEDGE SHOULDER, TYPE B
- Ⓑ PROP. HMA SC IL-9.5 D N70, 1 1/2 "
- Ⓒ PROP. SHOULDER RUMBLE STRIPS, 16"
- Ⓓ PROP. CENTERLINE RUMBLE STRIPS

HOT-MIX ASPHALT MIXTURE REQUIREMENTS		QUALITY MANAGEMENT PROGRAM (QMP)
MIXTURE TYPE	AIR VOIDS(%) @ Ndes	
<b>PAVEMENT RESURFACING</b>		
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", IL-9.5, N70, 1-1/2"	4% @ 70 GYR.	QCP
<b>PATCHING</b>		
CLASS D PATCHES (HMA BINDER IL-19 mm)	4% @ 70 GYR.	QC/QA
QMP DESIGNATION: QUALITY CONTROL/QUALITY ASSURANCE (QC/QA); QUALITY CONTROL FOR PERFORMANCE (QCP); PAY FOR PERFORMANCE (PPF)		

NOTES:

1. THE CONTRACTOR SHALL MILL FIRST, THEN PATCH.
2. THE LOGITUDINAL JOINT SEALANT SHALL BE PLACED OVER THE MILLED SURFACE.

- NOTE 1: THE UNIT WEIGHT USED TO CALCULATE ALL HMA 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.

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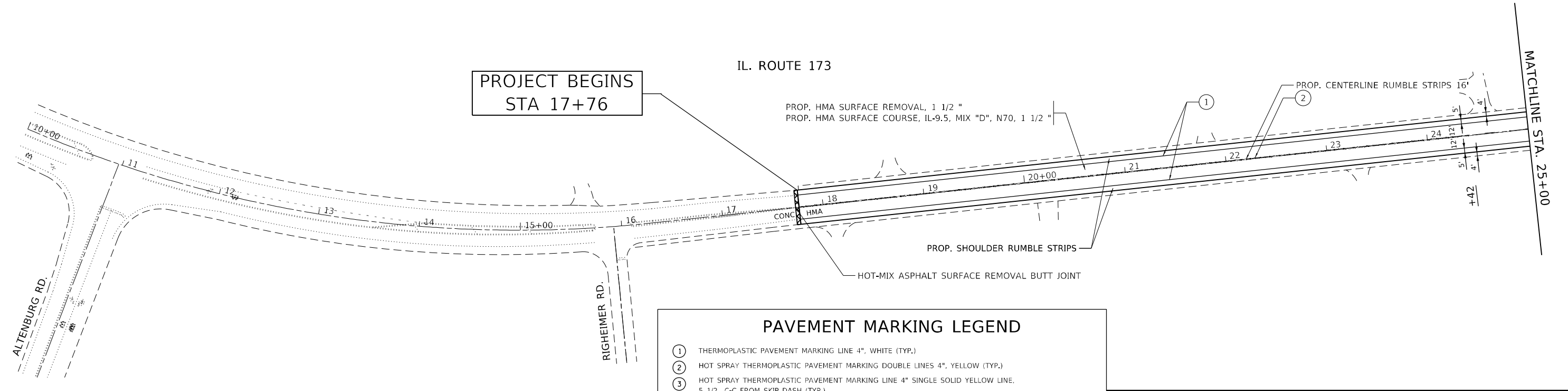
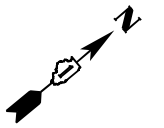
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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**IL 173. ( NE OF RIGHEIMER ST TO S0 OF OAK GROVE RD.)  
EXISTING AND PROPOSED TYPICAL SECTIONS**

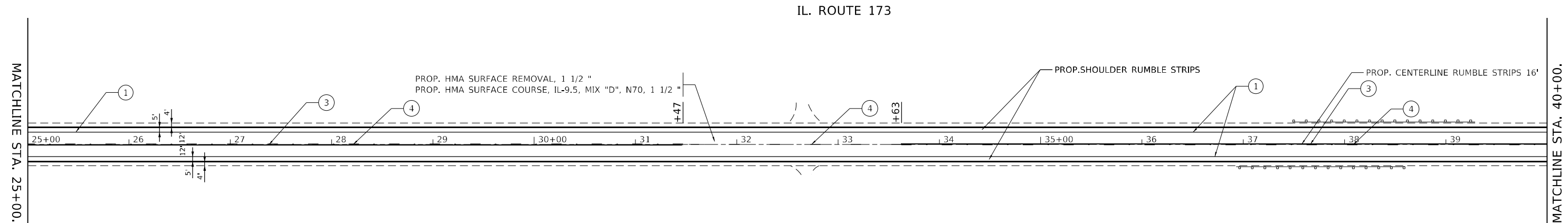
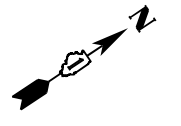
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
303	FAP 0303 22 RS2	MCHENRY	21	5
CONTRACT NO. 62R96			ILLINOIS FED. AID PROJECT	



### PAVEMENT MARKING LEGEND

①	THERMOPLASTIC PAVEMENT MARKING LINE 4", WHITE (TYP.)
②	HOT SPRAY THERMOPLASTIC PAVEMENT MARKING DOUBLE LINES 4", YELLOW (TYP.)
③	HOT SPRAY THERMOPLASTIC PAVEMENT MARKING LINE 4" SINGLE SOLID YELLOW LINE, 5 1/2' C-C FROM SKIP DASH (TYP.)
④	HOT SPRAY THERMOPLASTIC PAVEMENT MARKING LINE 4", 10' DASH-30'SKIP, YELLOW (TYP.)
⑤	THERMOPLASTIC PAVEMENT MARKING TURN LANE MARKING-LINE 6", WHITE (TYP.)
⑥	THERMOPLASTIC PAVEMENT MARKING STOP LINE 24", WHITE (TYP.)
⑦	THERMOPLASTIC PAVEMENT MARKING LINE 6", 2" DASH - 6' SKIP, WHITE (TYP.)
⑧	THERMOPLASTIC PAVEMENT MARKING LETTERS AND SYMBOLS, WHITE (TYP.)



**NOTES:**

- 1) LIMIT OF RESURFACING ON THE SIDE STREET THROUGHOUT THE PROJECT SHALL BE TO THE RADIUS RETURN, UNLESS OTHERWISE SHOWN ON THE PLANS, OR AS DIRECTED BY THE RESIDENT ENGINEER/TECHNICIAN.
- 2) ALL FINAL PAVEMENT MARKINGS SHALL BE THERMOPLASTIC PAVEMENT MARKINGS (OF THE EXTRUDED TYPE) ON HMA PAVEMENT.
- 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.

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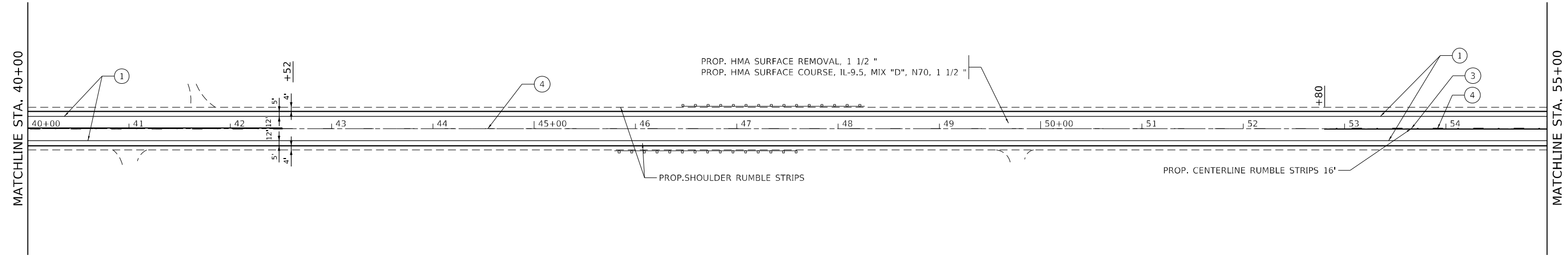
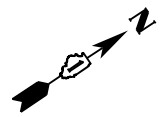
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**EXISTING AND PROPOSED ROADWAY PLAN  
IL. ROUTE 173 (RIGHEIMER RD. TO OAK GROVE RD.)**

SCALE: SHEET OF SHEETS STA. 17 + 76.19 TO STA. 40 +00

F.A.P. RTE. 303	SECTION FAP 0303 22 RS2	COUNTY MCHENRY	TOTAL SHEETS 21	SHEET NO. 6
CONTRACT NO. 62R96			ILLINOIS FED. AID PROJECT	

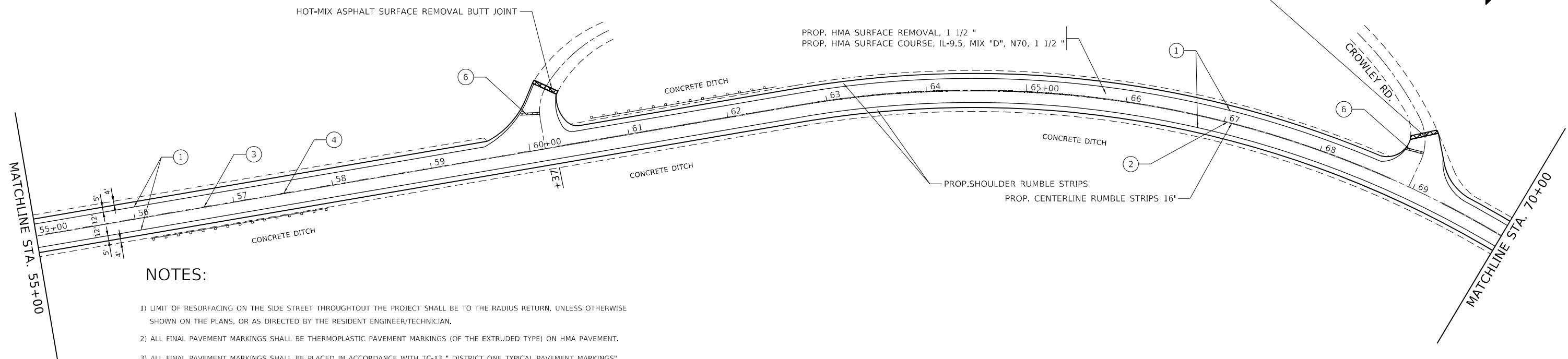
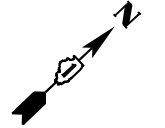
IL. ROUTE 173



**PAVEMENT MARKING LEGEND**

①	THERMOPLASTIC PAVEMENT MARKING LINE 4", WHITE (TYP.)
②	HOT SPRAY THERMOPLASTIC PAVEMENT MARKING DOUBLE LINES 4", YELLOW (TYP.)
③	HOT SPRAY THERMOPLASTIC PAVEMENT MARKING LINE 4" SINGLE SOLID YELLOW LINE, 5 1/2" C-C FROM SKIP DASH (TYP.)
④	HOT SPRAY THERMOPLASTIC PAVEMENT MARKING LINE 4", 10" DASH-30" SKIP, YELLOW (TYP.)
⑤	THERMOPLASTIC PAVEMENT MARKING TURN LANE MARKING-LINE 6", WHITE (TYP.)
⑥	THERMOPLASTIC PAVEMENT MARKING STOP LINE 24", WHITE (TYP.)
⑦	THERMOPLASTIC PAVEMENT MARKING LINE 6", 2" DASH - 6" SKIP, WHITE (TYP.)
⑧	THERMOPLASTIC PAVEMENT MARKING LETTERS AND SYMBOLS, WHITE (TYP.)

IL. ROUTE 173



**NOTES:**

- 1) LIMIT OF RESURFACING ON THE SIDE STREET THROUGHOUT THE PROJECT SHALL BE TO THE RADIUS RETURN, UNLESS OTHERWISE SHOWN ON THE PLANS, OR AS DIRECTED BY THE RESIDENT ENGINEER/TECHNICIAN.
- 2) ALL FINAL PAVEMENT MARKINGS SHALL BE THERMOPLASTIC PAVEMENT MARKINGS (OF THE EXTRUDED TYPE) ON HMA PAVEMENT.
- 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.

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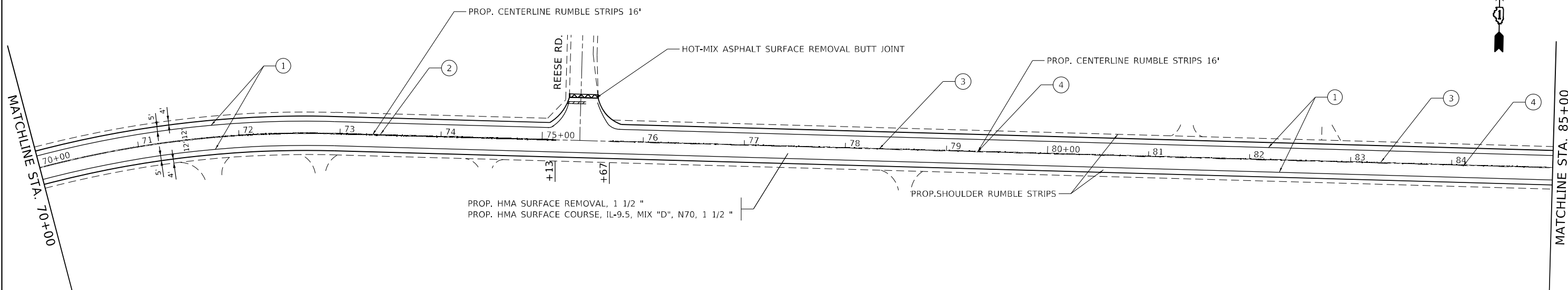
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**EXISTING AND PROPOSED ROADWAY PLAN  
IL. ROUTE 173 (RIGHEIMER RD. TO OAK GROVE RD.)**

SCALE: SHEET OF SHEETS STA. 40+00.00 TO STA. 70+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
303	FAP 0303 22 RS2	MCHENRY	21	7
CONTRACT NO. 62R96			ILLINOIS FED. AID PROJECT	

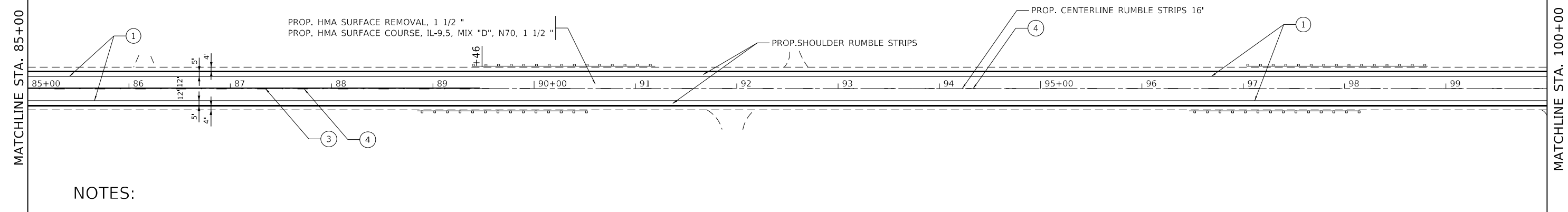
IL. ROUTE 173



**PAVEMENT MARKING LEGEND**

①	THERMOPLASTIC PAVEMENT MARKING LINE 4", WHITE (TYP.)
②	HOT SPRAY THERMOPLASTIC PAVEMENT MARKING DOUBLE LINES 4", YELLOW (TYP.)
③	HOT SPRAY THERMOPLASTIC PAVEMENT MARKING LINE 4" SINGLE SOLID YELLOW LINE, 5 1/2' C-C FROM SKIP DASH (TYP.)
④	HOT SPRAY THERMOPLASTIC PAVEMENT MARKING LINE 4", 10' DASH-30'SKIP, YELLOW (TYP.)
⑤	THERMOPLASTIC PAVEMENT MARKING TURN LANE MARKING-LINE 6", WHITE (TYP.)
⑥	THERMOPLASTIC PAVEMENT MARKING STOP LINE 24", WHITE (TYP.)
⑦	THERMOPLASTIC PAVEMENT MARKING LINE 6", 2" DASH - 6' SKIP, WHITE (TYP.)
⑧	THERMOPLASTIC PAVEMENT MARKING LETTERS AND SYMBOLS, WHITE (TYP.)

IL. ROUTE 173



**NOTES:**

- 1) LIMIT OF RESURFACING ON THE SIDE STREET THROUGHOUT THE PROJECT SHALL BE TO THE RADIUS RETURN, UNLESS OTHERWISE SHOWN ON THE PLANS, OR AS DIRECTED BY THE RESIDENT ENGINEER/TECHNICIAN.
- 2) ALL FINAL PAVEMENT MARKINGS SHALL BE THERMOPLASTIC PAVEMENT MARKINGS (OF THE EXTRUDED TYPE) ON HMA PAVEMENT.
- 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.

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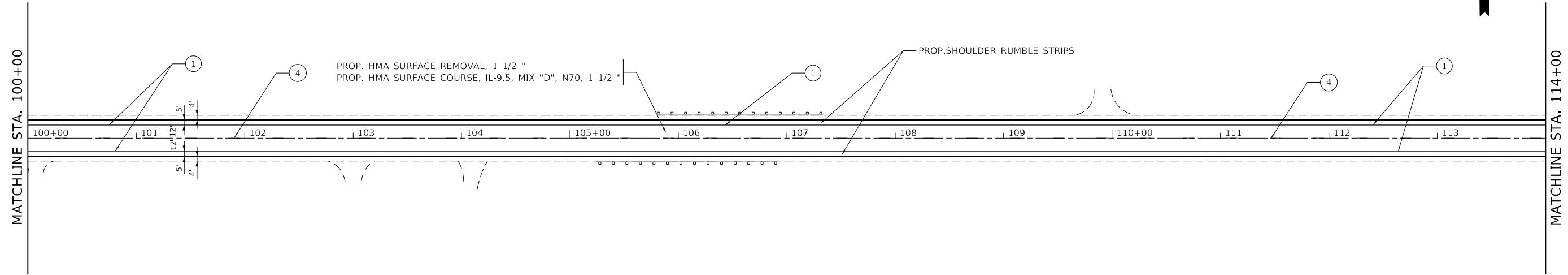
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>EXISTING AND PROPOSED ROADWAY PLAN</b>			
<b>IL. ROUTE 173 (RIGHEIMER RD. TO OAK GROVE RD.)</b>			
SCALE:	SHEET	OF	SHEETS
			STA. 70+00.00 TO STA. 100+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
303	FAP 0303 22 RS2	MCHENRY	21	8
			CONTRACT NO. 62R96	
		ILLINOIS FED. AID PROJECT		



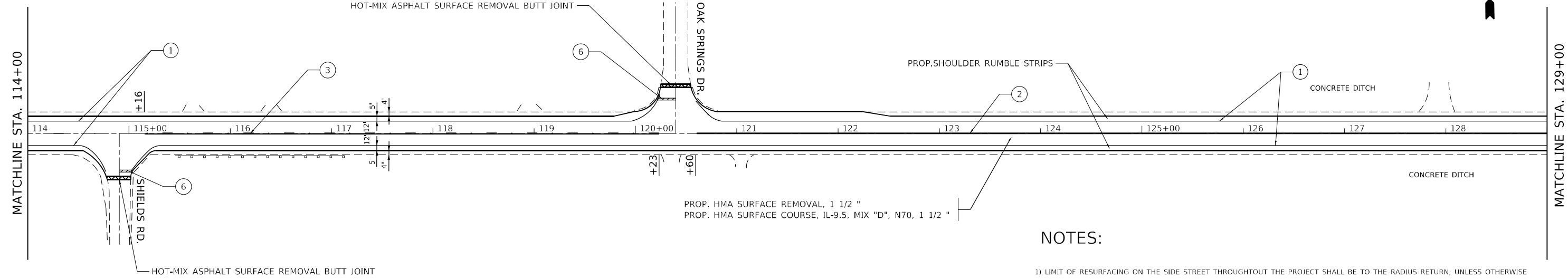
IL. ROUTE 173



PAVEMENT MARKING LEGEND

- ① THERMOPLASTIC PAVEMENT MARKING LINE 4", WHITE (TYP.)
- ② HOT SPRAY THERMOPLASTIC PAVEMENT MARKING DOUBLE LINES 4", YELLOW (TYP.)
- ③ HOT SPRAY THERMOPLASTIC PAVEMENT MARKING LINE 4" SINGLE SOLID YELLOW LINE, 5 1/2" C-C FROM SKIP DASH (TYP.)
- ④ HOT SPRAY THERMOPLASTIC PAVEMENT MARKING LINE 4", 10' DASH-30'SKIP, YELLOW (TYP.)
- ⑤ THERMOPLASTIC PAVEMENT MARKING TURN LANE MARKING-LINE 6", WHITE (TYP.)
- ⑥ THERMOPLASTIC PAVEMENT MARKING STOP LINE 24", WHITE (TYP.)
- ⑦ THERMOPLASTIC PAVEMENT MARKING LINE 6", 2" DASH - 6' SKIP, WHITE (TYP.)
- ⑧ THERMOPLASTIC PAVEMENT MARKING LETTERS AND SYMBOLS, WHITE (TYP.)

IL. ROUTE 173



NOTES:

- 1) LIMIT OF RESURFACING ON THE SIDE STREET THROUGHOUT THE PROJECT SHALL BE TO THE RADIUS RETURN, UNLESS OTHERWISE SHOWN ON THE PLANS, OR AS DIRECTED BY THE RESIDENT ENGINEER/TECHNICIAN.
- 2) ALL FINAL PAVEMENT MARKINGS SHALL BE THERMOPLASTIC PAVEMENT MARKINGS (OF THE EXTRUDED TYPE) ON HMA PAVEMENT.
- 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.

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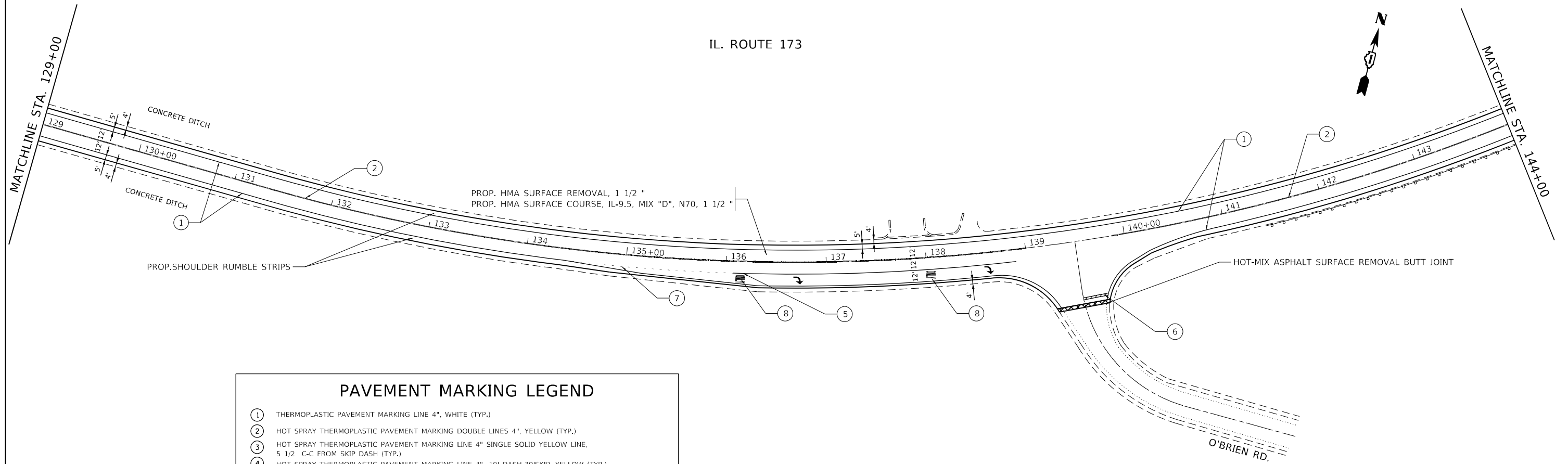
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**EXISTING AND PROPOSED ROADWAY PLAN  
IL. ROUTE 173 (RIGHEIMER RD. TO OAK GROVE RD.)**

SCALE: SHEET OF SHEETS STA. 100+00.00 TO STA. 129+00.00

F.A.P. RTE. 303	SECTION FAP 0303 22 RS2	COUNTY MCHENRY	TOTAL SHEETS 21	SHEET NO. 9
CONTRACT NO. 62R96			ILLINOIS FED. AID PROJECT	

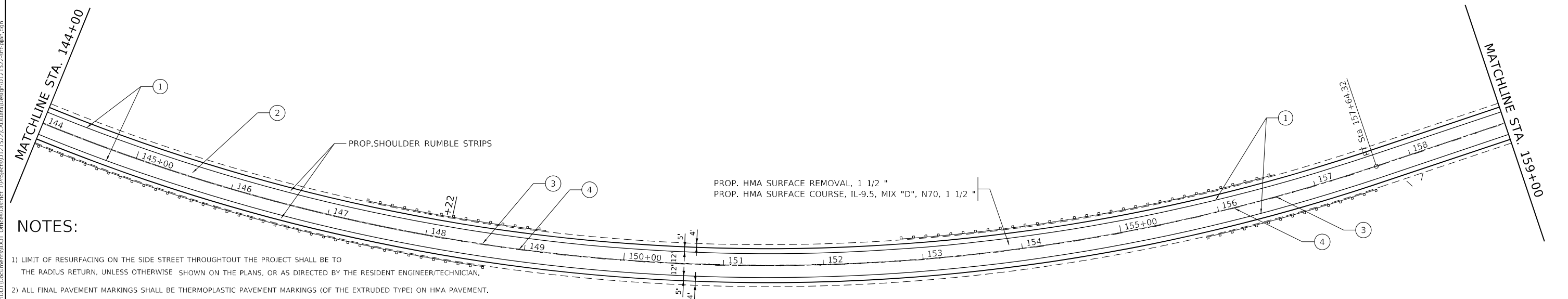
IL. ROUTE 173



**PAVEMENT MARKING LEGEND**

①	THERMOPLASTIC PAVEMENT MARKING LINE 4", WHITE (TYP.)
②	HOT SPRAY THERMOPLASTIC PAVEMENT MARKING DOUBLE LINES 4", YELLOW (TYP.)
③	HOT SPRAY THERMOPLASTIC PAVEMENT MARKING LINE 4" SINGLE SOLID YELLOW LINE, 5 1/2' C-C FROM SKIP DASH (TYP.)
④	HOT SPRAY THERMOPLASTIC PAVEMENT MARKING LINE 4", 10' DASH-30'SKIP, YELLOW (TYP.)
⑤	THERMOPLASTIC PAVEMENT MARKING TURN LANE MARKING-LINE 6", WHITE (TYP.)
⑥	THERMOPLASTIC PAVEMENT MARKING STOP LINE 24", WHITE (TYP.)
⑦	THERMOPLASTIC PAVEMENT MARKING LINE 6", 2" DASH - 6' SKIP, WHITE (TYP.)
⑧	THERMOPLASTIC PAVEMENT MARKING LETTERS AND SYMBOLS, WHITE (TYP.)

IL. ROUTE 173



**NOTES:**

- 1) LIMIT OF RESURFACING ON THE SIDE STREET THROUGHOUT THE PROJECT SHALL BE TO THE RADIUS RETURN, UNLESS OTHERWISE SHOWN ON THE PLANS, OR AS DIRECTED BY THE RESIDENT ENGINEER/TECHNICIAN.
- 2) ALL FINAL PAVEMENT MARKINGS SHALL BE THERMOPLASTIC PAVEMENT MARKINGS (OF THE EXTRUDED TYPE) ON HMA PAVEMENT.
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- 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.

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	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

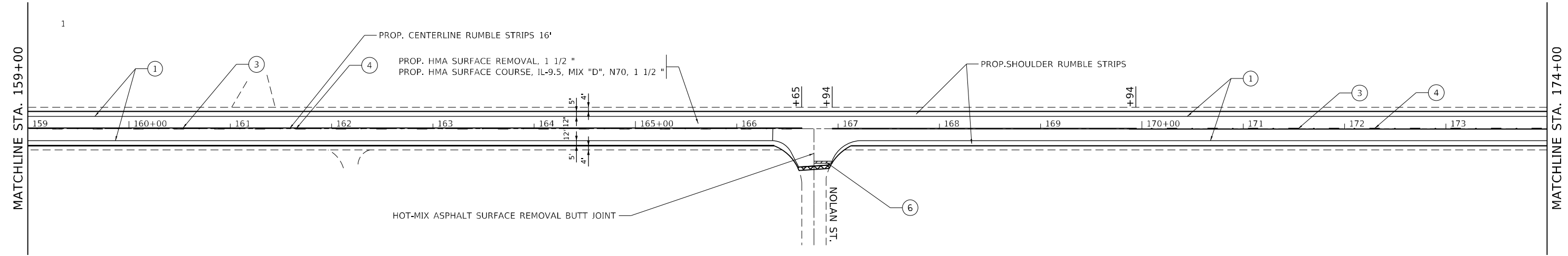
**EXISTING AND PROPOSED ROADWAY PLAN  
IL. ROUTE 173 (RIGHEIMER RD. TO OAK GROVE RD.)**

SCALE: SHEET OF SHEETS STA. 129+00.00 TO STA. 159+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 62R96			ILLINOIS FED. AID PROJECT	

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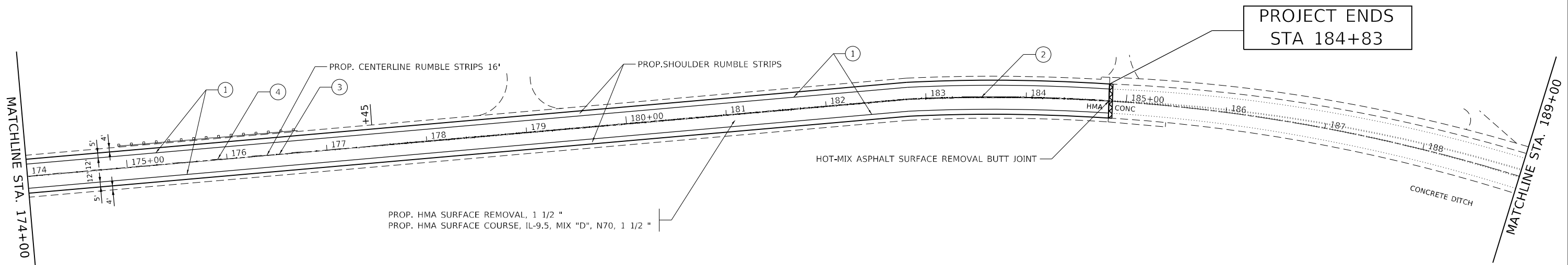
IL. ROUTE 173



**PAVEMENT MARKING LEGEND**

①	THERMOPLASTIC PAVEMENT MARKING LINE 4", WHITE (TYP.)
②	HOT SPRAY THERMOPLASTIC PAVEMENT MARKING DOUBLE LINES 4", YELLOW (TYP.)
③	HOT SPRAY THERMOPLASTIC PAVEMENT MARKING LINE 4" SINGLE SOLID YELLOW LINE, 5 1/2" C-C FROM SKIP DASH (TYP.)
④	HOT SPRAY THERMOPLASTIC PAVEMENT MARKING LINE 4", 10' DASH-30'SKIP, YELLOW (TYP.)
⑤	THERMOPLASTIC PAVEMENT MARKING TURN LANE MARKING-LINE 6", WHITE (TYP.)
⑥	THERMOPLASTIC PAVEMENT MARKING STOP LINE 24", WHITE (TYP.)
⑦	THERMOPLASTIC PAVEMENT MARKING LINE 6", 2" DASH - 6' SKIP, WHITE (TYP.)
⑧	THERMOPLASTIC PAVEMENT MARKING LETTERS AND SYMBOLS, WHITE (TYP.)

IL. ROUTE 173



**NOTES:**

- 1) LIMIT OF RESURFACING ON THE SIDE STREET THROUGHOUT THE PROJECT SHALL BE TO THE RADIUS RETURN, UNLESS OTHERWISE SHOWN ON THE PLANS, OR AS DIRECTED BY THE RESIDENT ENGINEER/TECHNICIAN.
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- 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.

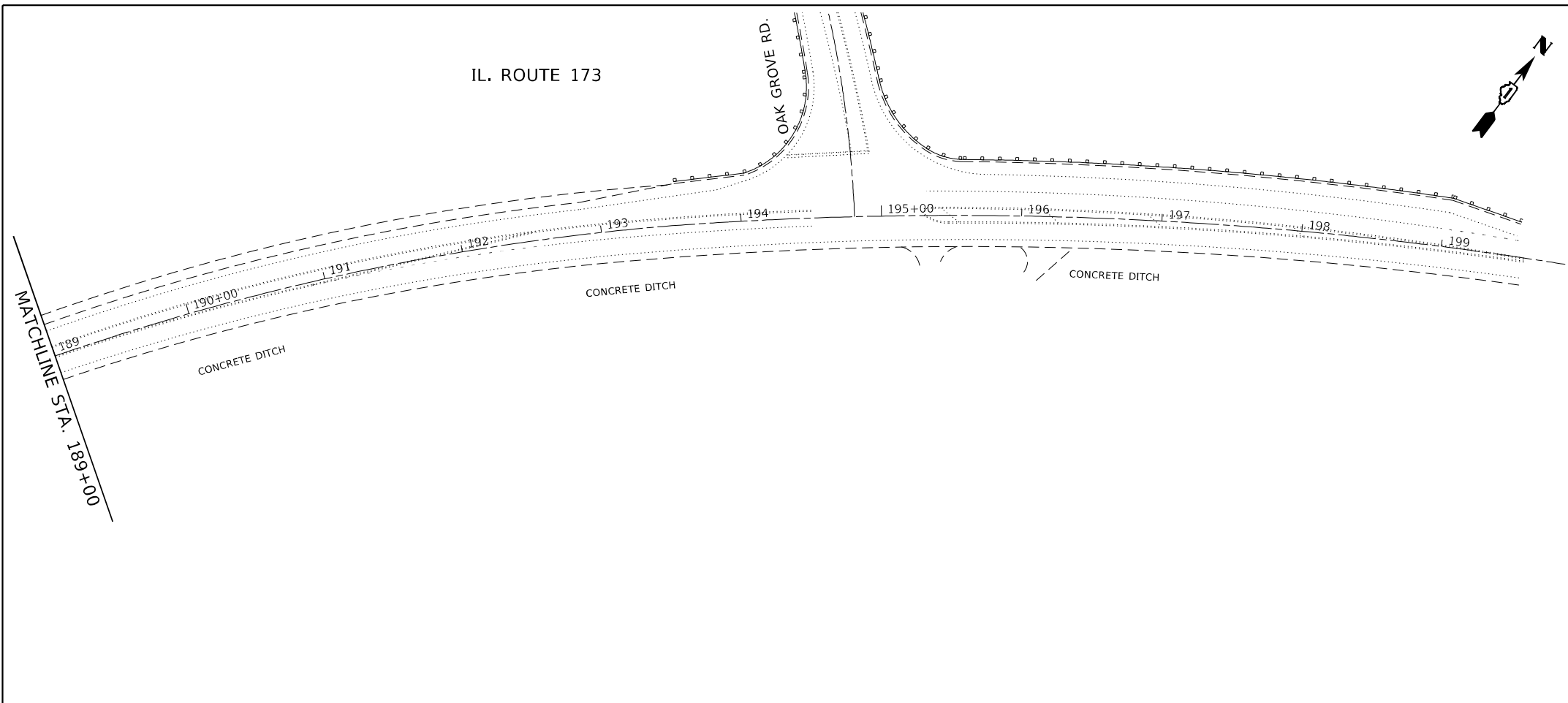
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	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>EXISTING AND PROPOSED ROADWAY PLAN IL. ROUTE 173 (RIGHEIMER RD. TO OAK GROVE RD.)</b>			
SCALE:	SHEET	OF	SHEETS
			STA. 159+00.00 TO STA. 184+82.72

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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			CONTRACT NO. 62R96	
ILLINOIS FED. AID PROJECT				



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

<b>EXISTING AND PROPOSED ROADWAY PLAN</b> <b>IL. ROUTE 173 (RIGHEIMER RD. TO OAK GROVE RD.)</b>			
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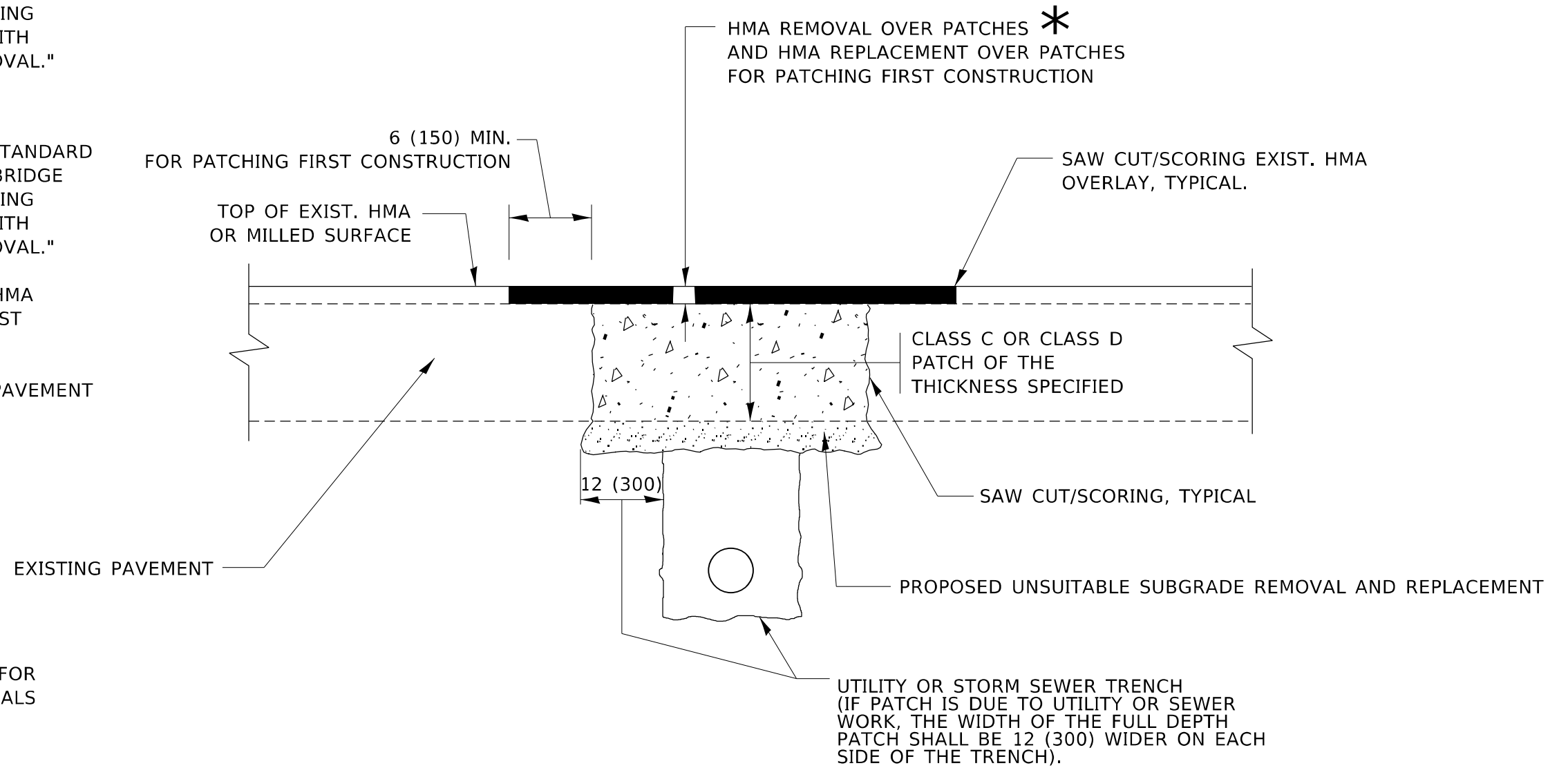
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303	FAP 0303 22 RS2	MCHENRY	21	12
			CONTRACT NO. 62R96	
		ILLINOIS	FED. AID PROJECT	

**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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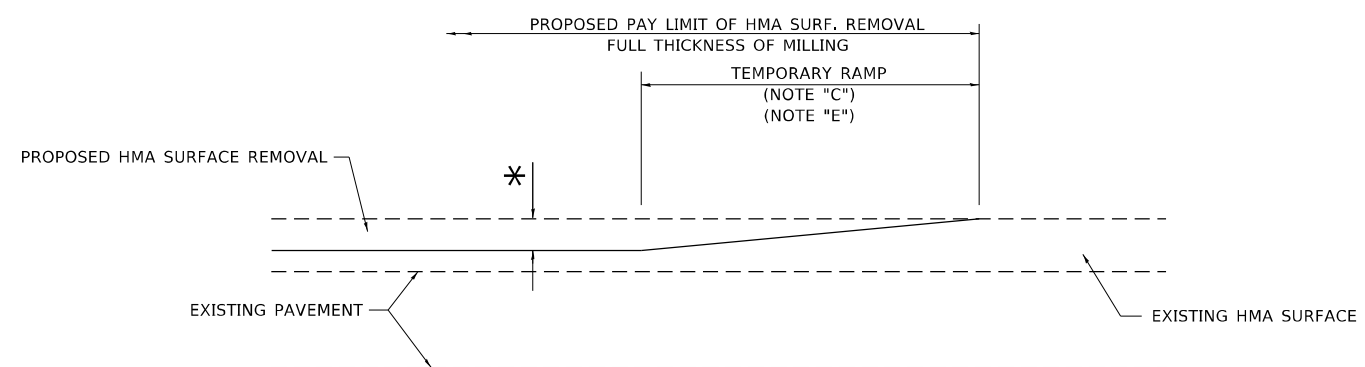
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PLOT DATE = 10/29/2024	DATE - 10-25-94	REVISED - K. SMITH 11-18-22

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**PAVEMENT PATCHING FOR  
HMA SURFACED PAVEMENT**

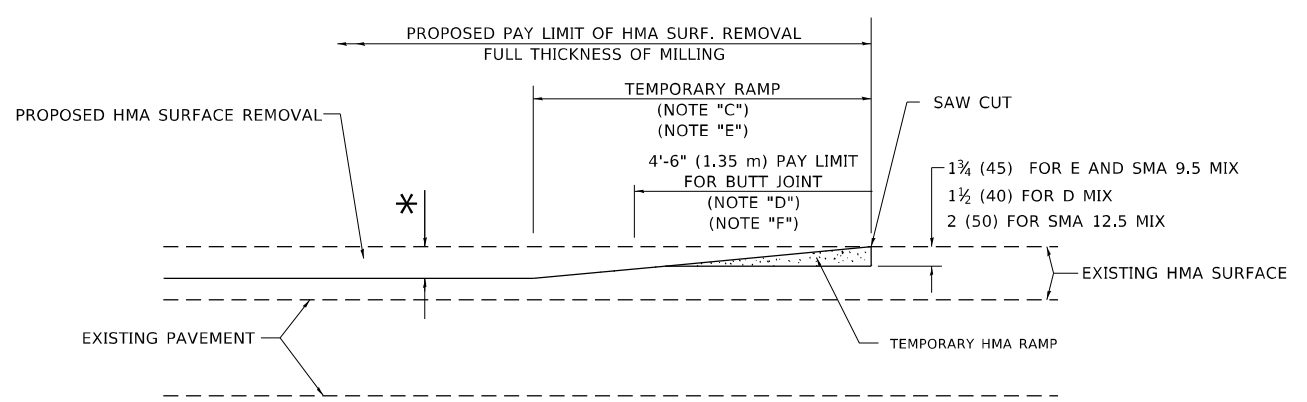
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303	FAP 0303 22 R52	MCHENRY	21	13
<b>BD400-04 (BD-22)</b>		CONTRACT NO. 62R96		
ILLINOIS FED. AID PROJECT				



**MILLED TEMPORARY RAMP**  
(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

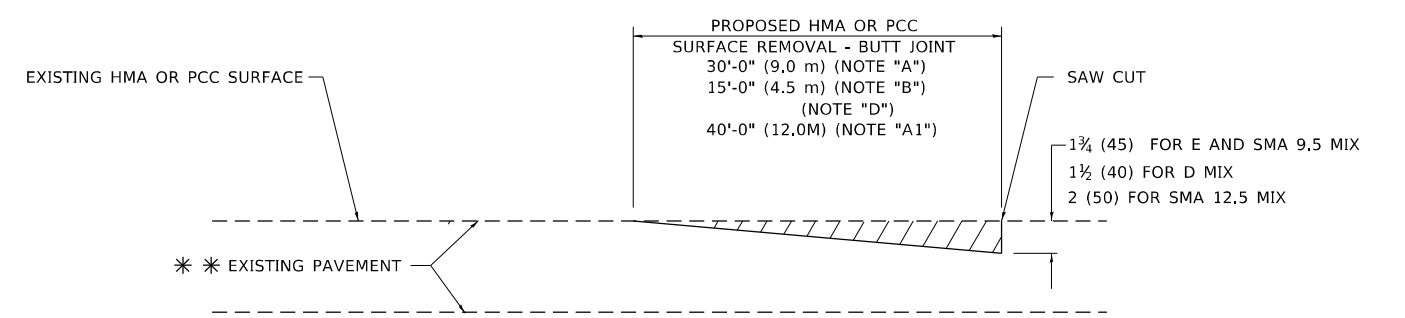
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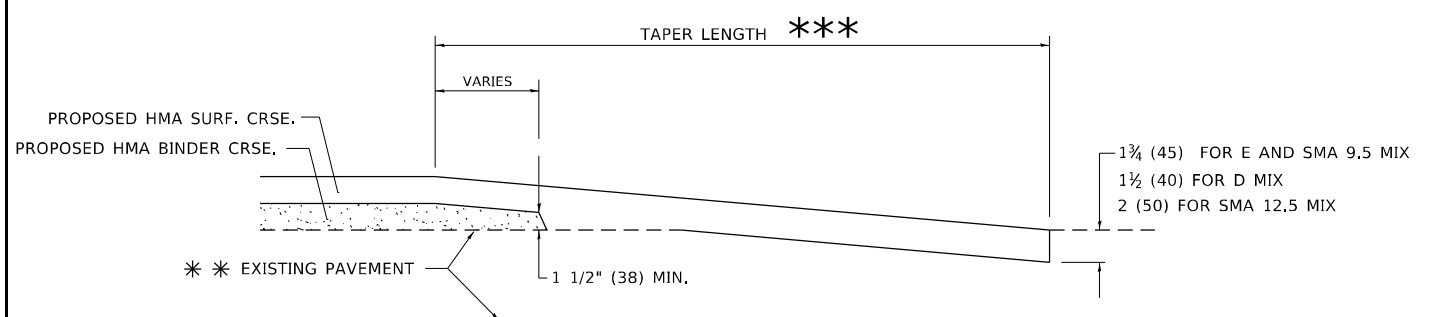
**HMA CONSTRUCTED TEMPORARY RAMP**  
(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

**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.

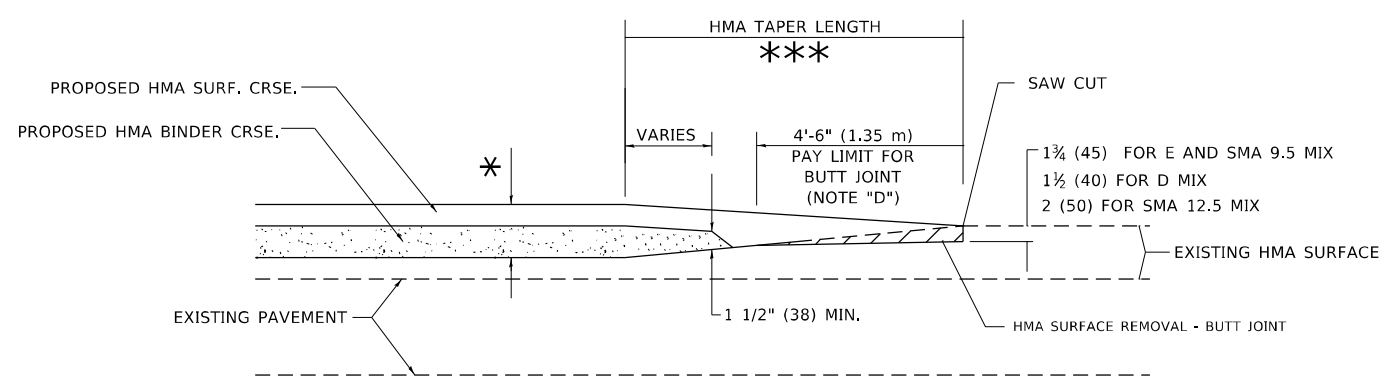
**GENERAL NOTES**

- 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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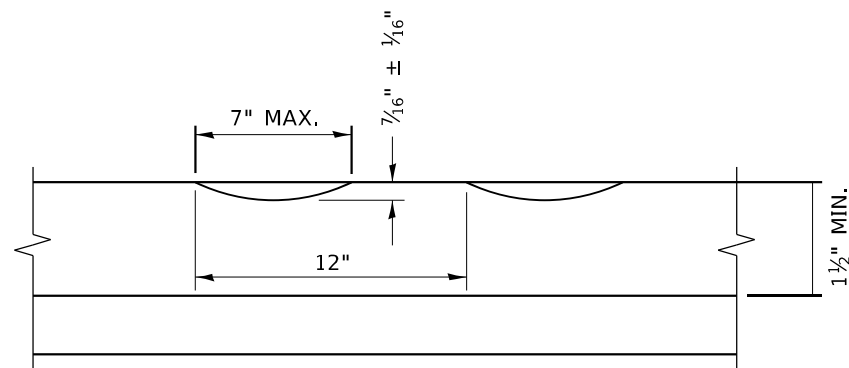
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PLOT DATE = 10/29/2024	DATE - 06-13-90	REVISED - R. BORO 01-01-07
		REVISED - K. SMITH 11-18-22

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

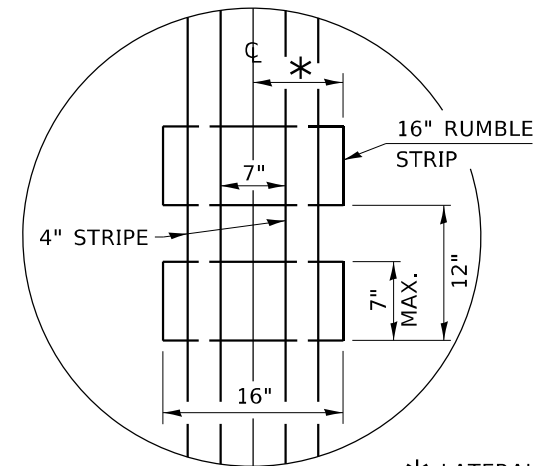
**BUTT JOINT AND  
HMA TAPER DETAILS**

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
303	FAP 0303 22 R52	MCHENRY	21	14
<b>BD400-05 BD-32</b>		CONTRACT NO. 62R96		
ILLINOIS FED. AID PROJECT				



**SECTION A-A**



\* LATERAL DEVIATION SHALL NOT EXCEED ONE INCH IN 100 FEET.

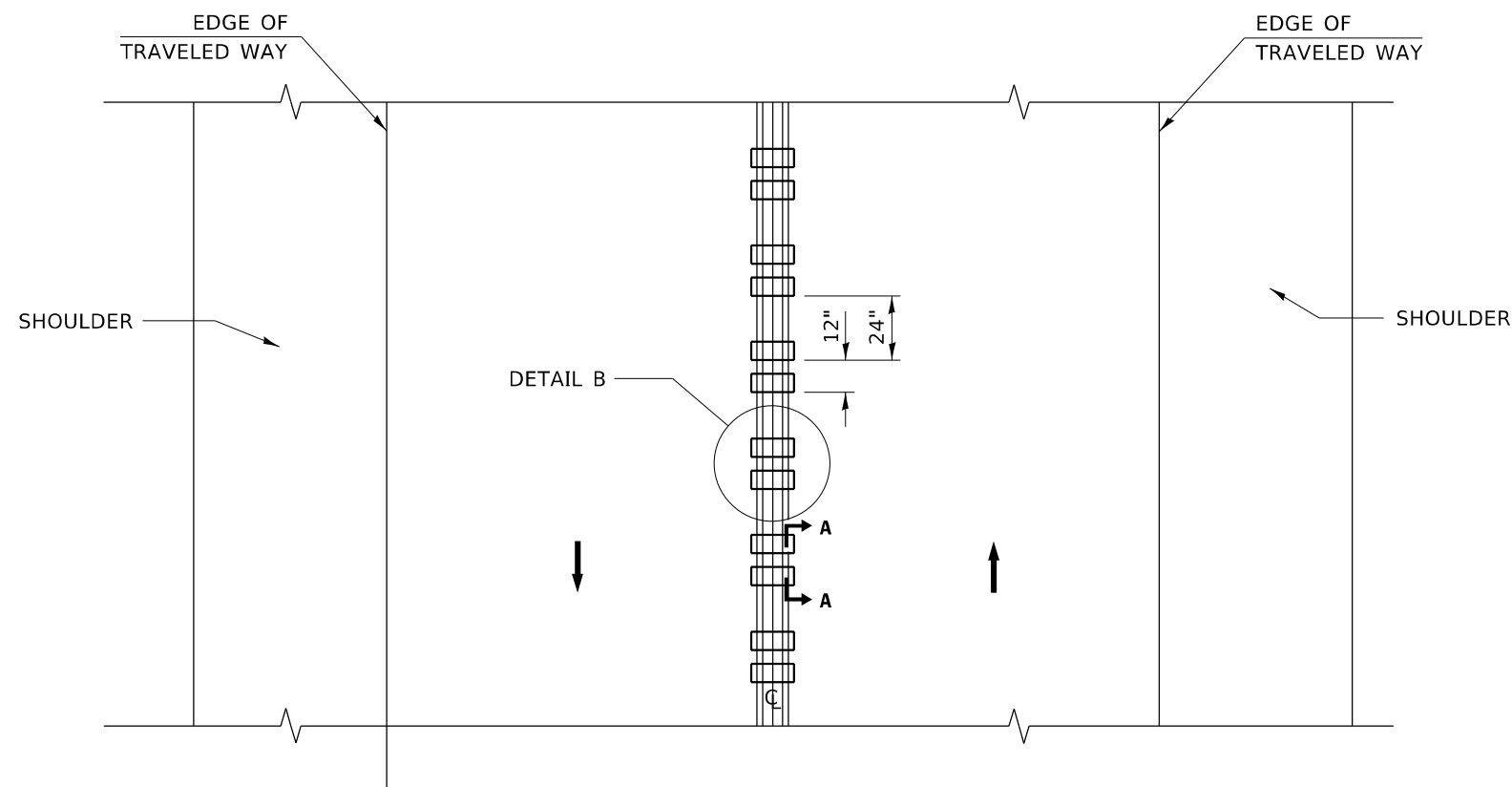
**DETAIL B**

**GENERAL NOTES**

1. CENTERLINE RUMBLE STRIPS SHALL BE CONSTRUCTED ACCORDING TO SECTION 642 ALONG THE CENTERLINE OF PAVEMENT.
2. SEE STANDARD 780001 FOR OTHER STRIPING LAYOUTS.
3. RUMBLE STRIPS SHALL NOT BE PLACED ON BRIDGES.
4. ALL RUMBLE STRIPS SHALL BE MILLED.
5. CENTERLINE RUMBLE STRIPS SHALL BE CONTINUOUS THROUGH CONNECTIONS OF SIDEROADS WITH NO LEFT TURN LANES.
6. DISCONTINUE CENTERLINE RUMBLE STRIPS THROUGH THE LIMITS OF ALL LEFT TURN LANES, INCLUDING ANY LANE TAPER SECTIONS.
7. AFTER RUMBLE STRIPS ARE INSTALLED, THE PAVEMENT SURFACE SHALL BE SWEEPED CLEAN PRIOR TO THE PLACEMENT OF THE NEW PAVEMENT MARKINGS.
8. WHERE USED, ADJUST SPACING OF RAISED REFLECTIVE PAVEMENT MARKERS TO FALL IN WIDER GAP BETWEEN RUMBLE STRIPS.

**BASIS OF PAYMENT**

1. THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER FOOT FOR CENTERLINE-RUMBLE STRIP OF THE WIDTH SPECIFIED.
2. HOT-SPRAY THERMOPLASTIC PAVEMENT MARKING WILL BE USED OVER THE RUMBLE STRIPS, AND WILL BE PAID FOR SEPARATELY.



**TWO-WAY ROAD**

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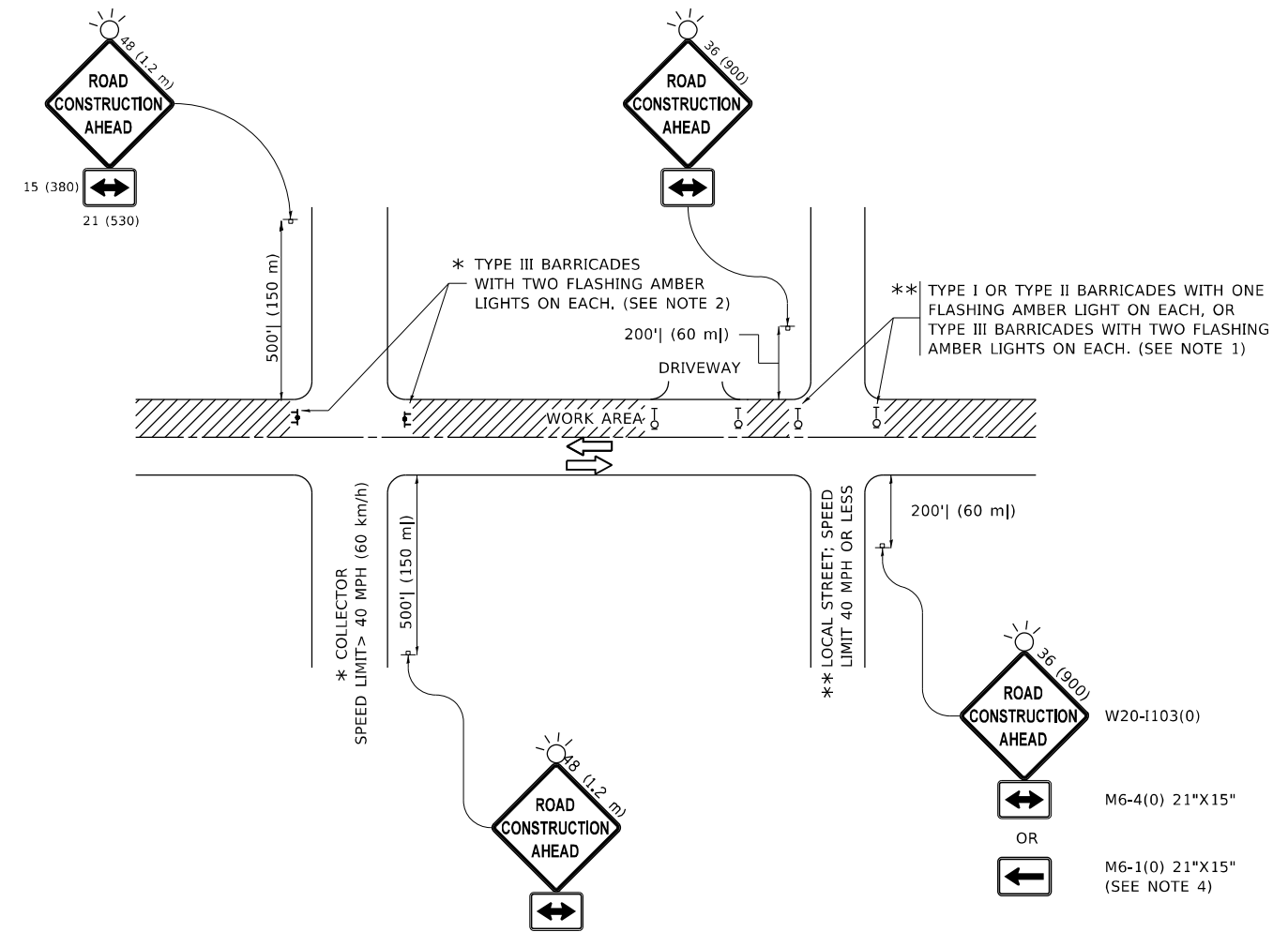
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PLOT DATE = 10/29/2024	DATE - 08-06-2012	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**RUMBLE STRIPS FOR CENTERLINE, NON-FREEWAY**

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
303	FAP 0303 22 RS2	MCHENRY	21	15
<b>BD-55</b>			CONTRACT NO. 62R96	
ILLINOIS FED. AID PROJECT				



**NOTES:**

1. SIDE ROAD WITH A SPEED LIMIT OF 40 MPH (60 km/h) OR LESS AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
  - a) ONE "ROAD CONSTRUCTION AHEAD" SIGN 36 x 36 (900x900) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 200' (60 m) IN ADVANCE OF THE MAIN ROUTE.
  - b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE I, TYPE II OR TYPE III BARRICADES, 1/3 OF THE CROSS SECTION OF THE CLOSED PORTION.
2. SIDE ROAD WITH A SPEED LIMIT GREATER THAN 40 MPH (60 km/h) AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
  - a) ONE "ROAD CONSTRUCTION AHEAD" SIGN 48 x 48 (1.2 m x 1.2 m) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 500' (150 m) IN ADVANCE OF THE MAIN ROUTE.
  - b) BLOCKING WITH TYPE III BARRICADES, 1/2 OF THE CROSS SECTION OF THE CLOSED PORTION.
3. CONES MAY BE SUBSTITUTED FOR BARRICADES OR DRUMS AT HALF THE SPACING DURING DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 28 (710) IN HEIGHT.
4. SIGNING AND THE WORK ZONE, A SINGLE HEADED ARROW (M6-1) SHALL BE USED IN LIEU OF THE DOUBLE HEADED ARROW (M6-4).
5. WHEN WORK IS BEING PERFORMED ON A SIDE ROAD OR DRIVEWAY, FOLLOW THE APPLICABLE STANDARD(S). THE DIRECTIONAL ARROW (M6-1 OR M6-4) SHALL BE COVERED OR REMOVED WHEN NO LONGER CONSISTENT WITH THE TRAFFIC CONTROL SET-UP.
6. ADVANCE WARNING SIGNS ARE TO BE OMITTED ON DRIVEWAYS UNLESS OTHERWISE SPECIFIED IN THE PLANS OR BY THE ENGINEER.
7. THE TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS SHALL BE INCLUDED IN THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

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

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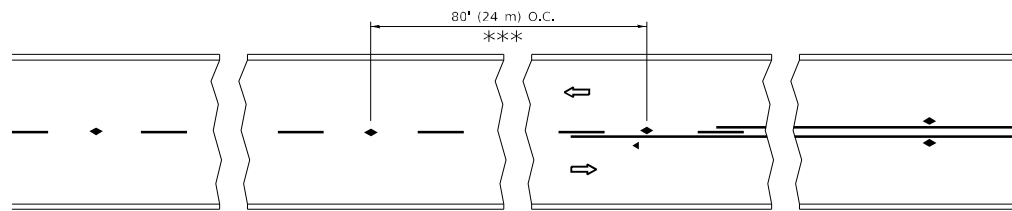
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**TRAFFIC CONTROL AND PROTECTION FOR  
SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS**

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

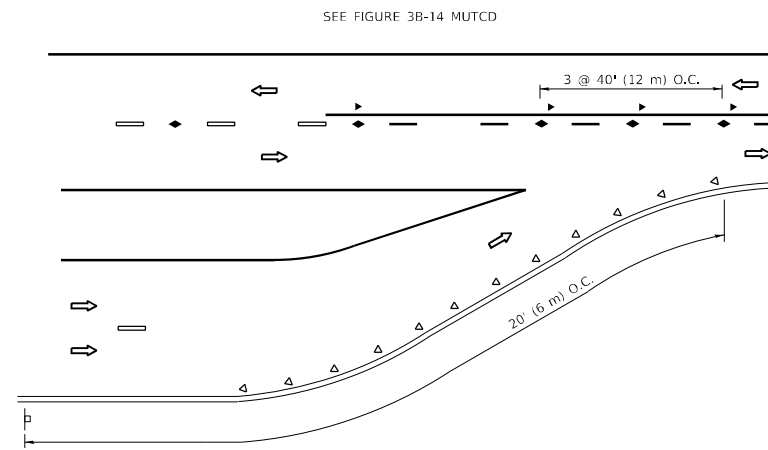
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<b>TC-10</b>			CONTRACT NO. 62R96	
ILLINOIS FED. AID PROJECT				



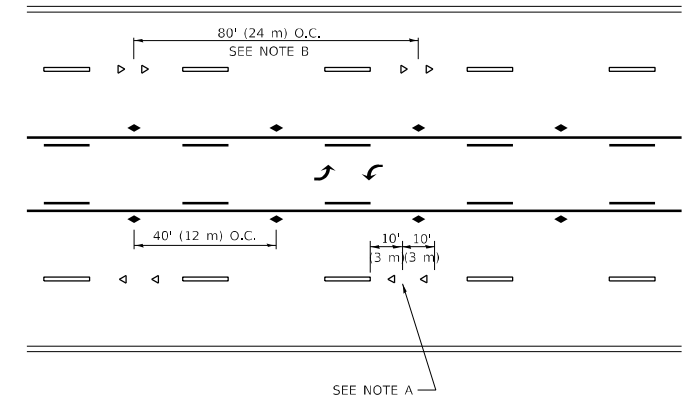


\*\*\* REDUCE TO 40' (12 m) O.C. ON CURVES WITH POSTED OR ADVISORY SPEED 45 M.P.H. (70 km/h) OR LESS.

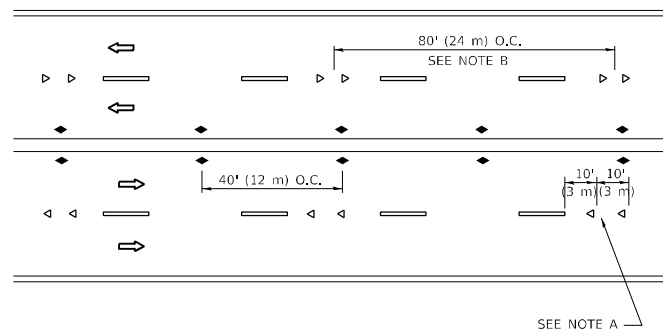
**TWO-LANE/TWO-WAY**



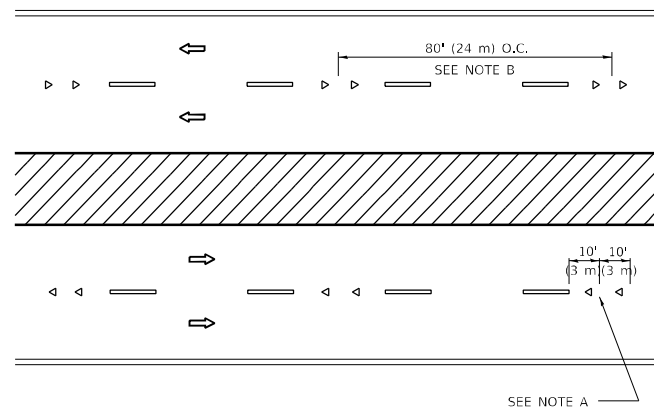
**LANE REDUCTION TRANSITION**



**TWO-WAY LEFT TURN**



**MULTI-LANE/UNDIVIDED**



**MULTI-LANE/DIVIDED**

**GENERAL NOTES**

1. MARKERS USED WITH DASHED LINES SHALL BE CENTERED IN THE GAP BETWEEN SEGMENTS.
2. MARKERS USED ADJACENT TO SOLID LINES SHALL BE OFFSET 2 TO 3 (50 TO 75) TOWARD TRAFFIC AS SHOWN.
3. MARKERS THROUGH TANGENTS LESS THAN 500' (150 m) IN LENGTH BETWEEN CURVES SHALL BE INSTALLED AT THE LESSER OF THE TWO CURVE SPACINGS.
4. MARKERS ARE TO BE USED ADJACENT TO BOTH SOLID WHITE LINES IN DUAL LEFT TURN LANES

**SYMBOLS**

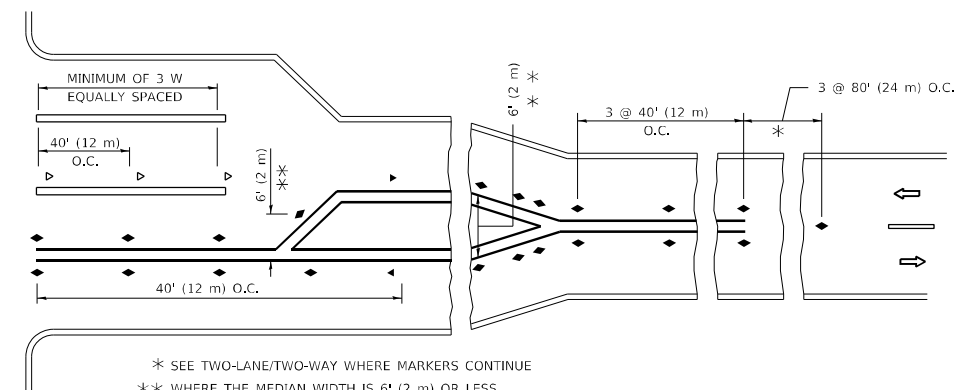
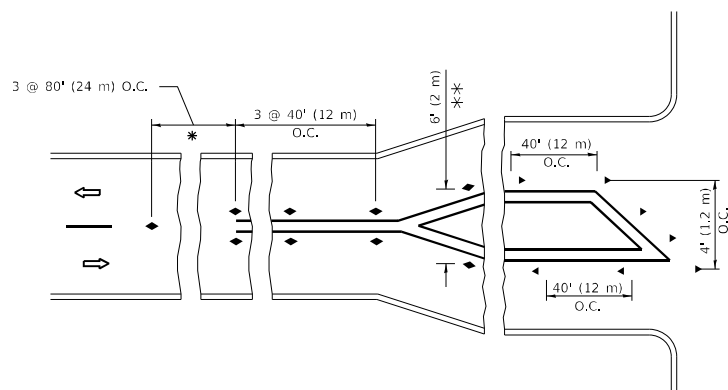
- YELLOW STRIPE
- WHITE STRIPE
- ◀ ONE-WAY AMBER MARKER
- ◀ ONE-WAY CRYSTAL MARKER (W/O)
- ◆ TWO-WAY AMBER MARKER

**LANE MARKER NOTES**

- A. USE DOUBLE LANE LINE MARKERS SPACED AS SHOWN.
- B. REDUCE TO 40' (12 m) O.C. ON CURVES WHERE ADVISORY SPEEDS ARE 10 M.P.H (20 km/h) LOWER THAN POSTED SPEEDS.

**DESIGN NOTES**

1. DOUBLE LANE LINE MARKERS SHALL BE USED UNLESS SPECIFIED OTHERWISE.
2. EXCEPT AS SHOWN ON THE LANE REDUCTION TRANSITION AND FREEWAY EXIT RAMP DETAIL, MARKERS ARE NOT TO BE SPECIFIED ON RIGHT EDGE LINES.
3. THE EXACT MARKER LIMITS, SPACING, AND COLOR SHALL BE INCLUDED IN THE PLANS WHEN STANDARD SPECIFICATIONS ARE NOT BEING USED.
4. MARKERS SHOULD NOT BE USED ALONGSIDE CURBS EXCEPT FOR EXTREMELY SHORT SECTIONS OF CURBS WHERE NOT MORE THAN TWO MARKERS WOULD BE INVOLVED.



**TURN LANES**

\* SEE TWO-LANE/TWO-WAY WHERE MARKERS CONTINUE  
 \*\* WHERE THE MEDIAN WIDTH IS 6' (2 m) OR LESS USE TWO-WAY MARKERS.

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

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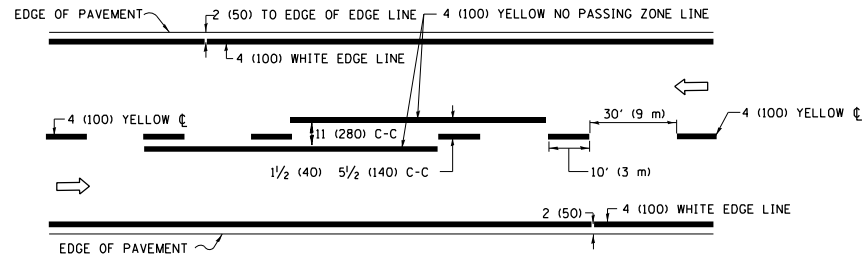
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	DRAWN -	REVISED - T. RAMMACHER 01-06-00
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PLOT DATE = 10/29/2024	DATE -	REVISED - C. JUCIUS 07-01-13

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

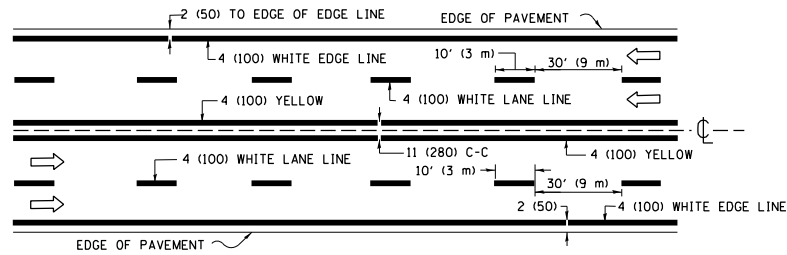
**TYPICAL APPLICATIONS  
 RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT)**

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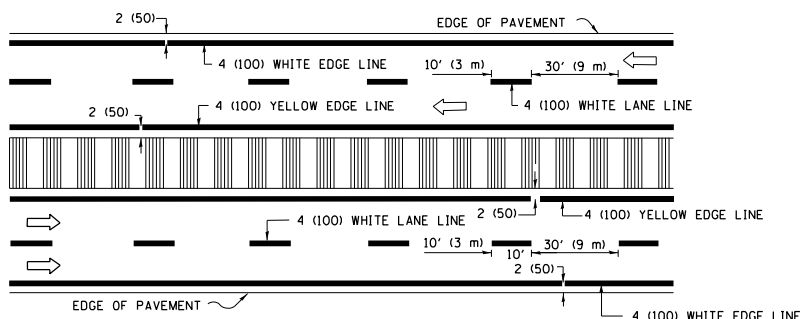
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
303	FAP 0303 22 R52	MCHENRY	21	17
TC-11		CONTRACT NO. 62R96		
ILLINOIS FED. AID PROJECT				



### 2-LANE ROADWAY

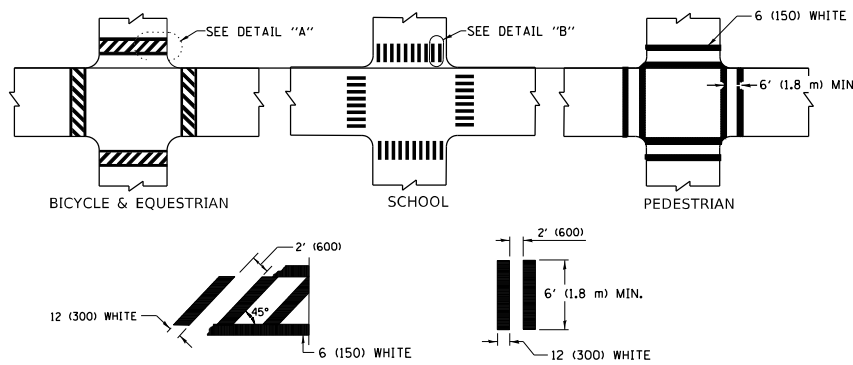


### MULTI-LANE UNDIVIDED



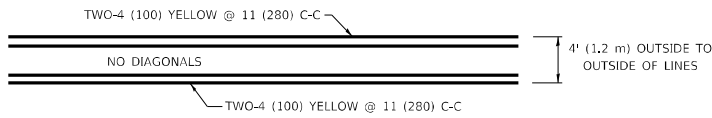
### MULTI-LANE DIVIDED WITH MEDIAN

### TYPICAL LANE AND EDGE LINE MARKING

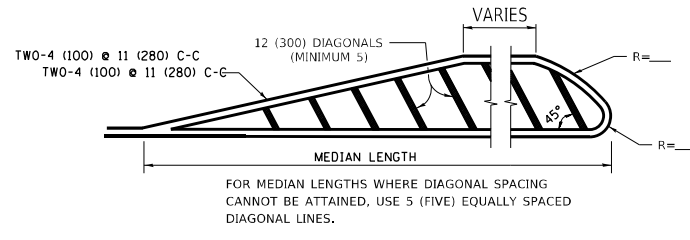


### TYPICAL CROSSWALK MARKING

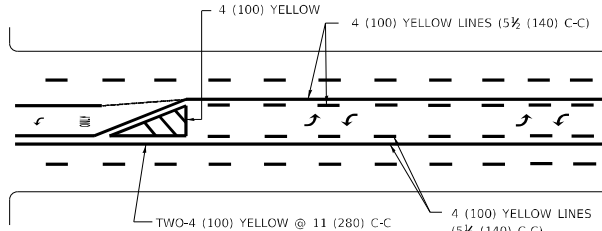
\* MARKINGS SHALL BE INSTALLED PARALLEL TO THE CENTERLINE OF THE ROAD WHICH IT CROSSES



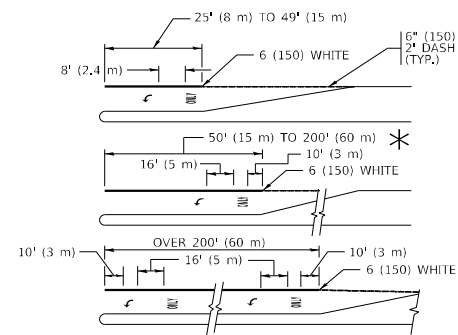
### 4' (1.2 m) WIDE MEDIANS ONLY



### MEDIANS OVER 4' (1.2 m) WIDE



### MEDIAN WITH TWO-WAY LEFT TURN LANE TYPICAL PAINTED MEDIAN MARKING

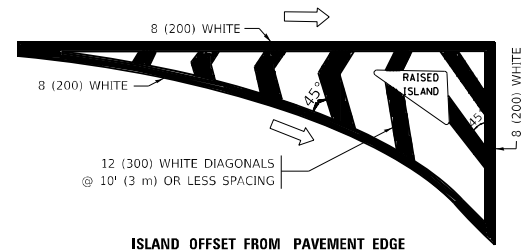


### TYPICAL LEFT (OR RIGHT) TURN LANE

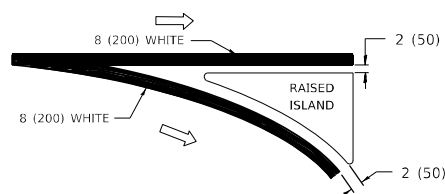
### TYPICAL TURN LANE MARKING

FULL SIZE LETTERS 8" (2.4 m) AND ARROWS SHALL BE USED.  
 \* AREA = 15.6 SQ. FT. (1.5 m<sup>2</sup>) ONLY AREA = 20.8 SQ. FT. (1.9 m<sup>2</sup>)

\* TURN LANES IN EXCESS OF 400' (120 m) IN LENGTH MAY HAVE AN ADDITIONAL SET OF ARROW - "ONLY" INSTALLED MIDWAY BETWEEN THE OTHER TWO SETS OF ARROW - "ONLY".

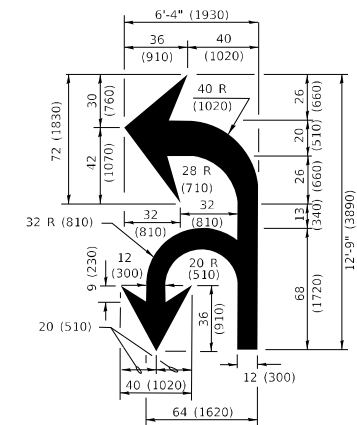


### ISLAND OFFSET FROM PAVEMENT EDGE

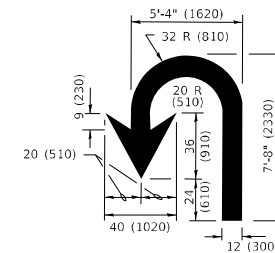


### ISLAND AT PAVEMENT EDGE

### TYPICAL ISLAND MARKING



### COMBINATION LEFT AND U-TURN



### U-TURN

### LANE REDUCTION TRANSITION

\* LANE REDUCTION ARROWS REQUIRED AT SPEEDS OF 45 MPH OR GREATER OR WHEN SPECIFIED IN PLANS.

D(FT)	SPEED LIMIT
345	30
425	35
500	40
580	45
665	50
750	55

TYPE OF MARKING	WIDTH OF LINE	PATTERN	COLOR	SPACING / REMARKS
CENTERLINE ON 2 LANE PAVEMENT	4 (100)	SKIP-DASH	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE
CENTERLINE ON MULTI-LANE UNDIVIDED PAVEMENT	2 @ 4 (100)	SOLID	YELLOW	11 (280) C-C
NO PASSING ZONE LINES: FOR ONE DIRECTION FOR BOTH DIRECTIONS	4 (100) 2 @ 4 (100)	SOLID SOLID	YELLOW YELLOW	5½ (140) C-C FROM SKIP-DASH CENTERLINE 11 (280) C-C OMIT SKIP-DASH CENTERLINE BETWEEN
LANE LINES	4 (100) 5 (125) ON FREEWAYS	SKIP-DASH SKIP-DASH	WHITE WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE
DOTTED LINES (EXTENSIONS OF CENTER, LANE OR TURN LANE MARKINGS)	SAME AS LINE BEING EXTENDED	SKIP-DASH	SAME AS LINE BEING EXTENDED	2' (600) LINE WITH 6' (1.8 m) SPACE
EDGE LINES	4 (100)	SOLID	YELLOW-LEFT WHITE-RIGHT	OUTLINE MEDIANS IN YELLOW
TURN LANE MARKINGS	6 (150) LINE; FULL SIZE LETTERS & SYMBOLS (8" (2.4m))	SOLID	WHITE	SEE TYPICAL TURN LANE MARKING DETAIL
TWO WAY LEFT TURN MARKING	2 @ 4 (100) EACH DIRECTION 8' (2.4m) LEFT ARROW	SKIP-DASH AND SOLID IN PAIRS	YELLOW WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE FOR SKIP-DASH; 5½ (140) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE SEE TYPICAL TWO-WAY LEFT TURN MARKING DETAIL
CROSSWALK LINES (PEDESTRIAN) A. DIAGONALS (BIKE & EQUESTRIAN) B. LONGITUDINAL BARS (SCHOOL)	2 @ 6 (150) 12 (300) @ 45° 12 (300) @ 90°	SOLID SOLID SOLID	WHITE WHITE WHITE	NOT LESS THAN 6' (1.8 m) APART 2' (600) APART 2' (600) APART SEE TYPICAL CROSSWALK MARKING DETAILS.
STOP LINES	24 (600)	SOLID	WHITE	PLACE 4' (1.2 m) IN ADVANCE OF AND PARALLEL TO CROSSWALK, IF PRESENT. OTHERWISE, PLACE AT DESIRED STOPPING POINT. PARALLEL TO CROSSROAD CENTERLINE, WHERE POSSIBLE
PAINTED MEDIANS	2 @ 4 (100) WITH 12 (300) DIAGONALS @ 45° NO DIAGONALS USED FOR 4' (1.2 m) WIDE MEDIANS	SOLID	YELLOW: TWO WAY TRAFFIC WHITE: ONE WAY TRAFFIC	11 (280) C-C FOR THE DOUBLE LINE SEE TYPICAL PAINTED MEDIAN MARKING.
GORE MARKING AND CHANNELIZING LINES	8 (200) WITH 12 (300) DIAGONALS @ 45°	SOLID	WHITE	DIAGONALS: 15' (4.5 m) C-C (LESS THAN 30MPH (50 km/h)) 20' (6 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h) 30' (9 m) C-C (OVER 45MPH (70 km/h))
RAILROAD CROSSING	24 (600) TRANSVERSE LINES: "RR" IS 8" (1.8 m) LETTERS; 16 (400) LINE FOR "X"	SOLID	WHITE	SEE STATE STANDARD 780001 AREA OF: "R"=3.6 SQ. FT. (0.33 m <sup>2</sup> ) EACH "X"=54.0 SQ. FT. (5.0 m <sup>2</sup> )
SHOULDER DIAGONALS (REQUIRED FOR SHOULDERS >= 8')	12 (300) @ 45°	SOLID	WHITE - RIGHT YELLOW - LEFT	50' (15 m) C-C (LESS THAN 30MPH (50 km/h)) 75' (25 m) C-C 30 MPH (50 km/h) TO 45MPH (70 km/h) 150' (45 m) C-C (OVER 45MPH (70 km/h))
U TURN ARROW	SEE DETAIL	SOLID	WHITE	16.3 SF
2 ARROW COMBINATION LEFT AND U TURN	SEE DETAIL	SOLID	WHITE	30.4 SF

FOR FURTHER DETAILS ON PAVEMENT MARKING REFER TO STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND STATE STANDARD 780001.

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

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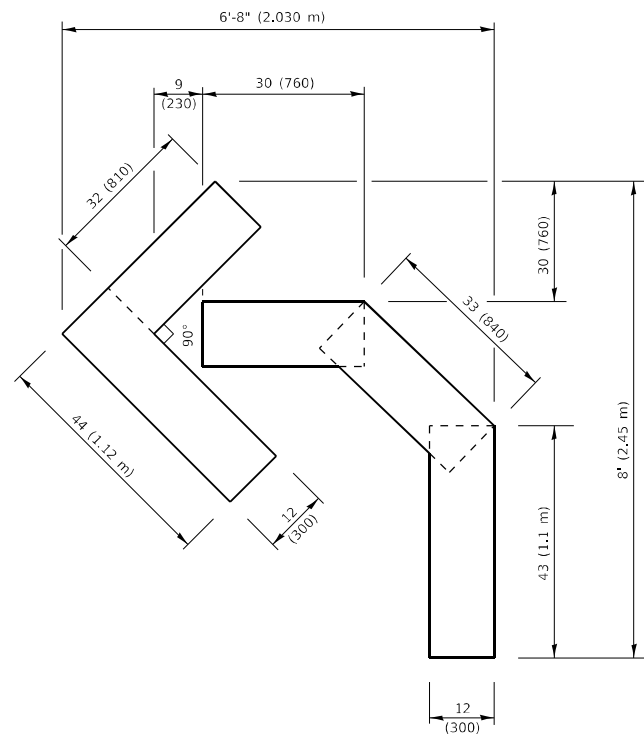
USER NAME	DESIGNED	REVISED
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		C. JUCIUS 07-01-13
		C. JUCIUS 12-21-15
		C. JUCIUS 04-12-16

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE  
TYPICAL PAVEMENT MARKINGS

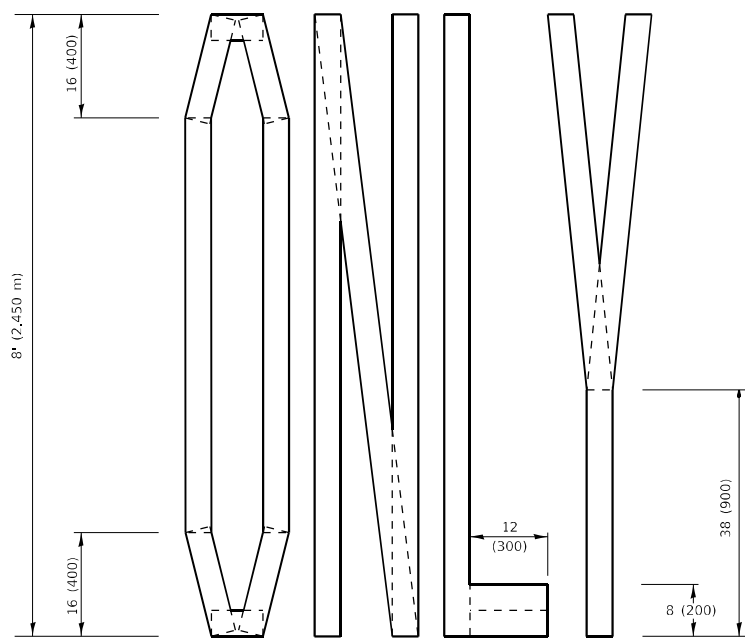
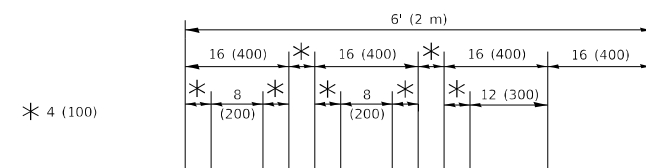
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
303	FAP 0303 22 R52	MCHENRY	21	18
TC-13			CONTRACT NO. 62R96	
ILLINOIS FED. AID PROJECT				

SCALE	SHEET	OF	SHEETS	STA.	TO STA.
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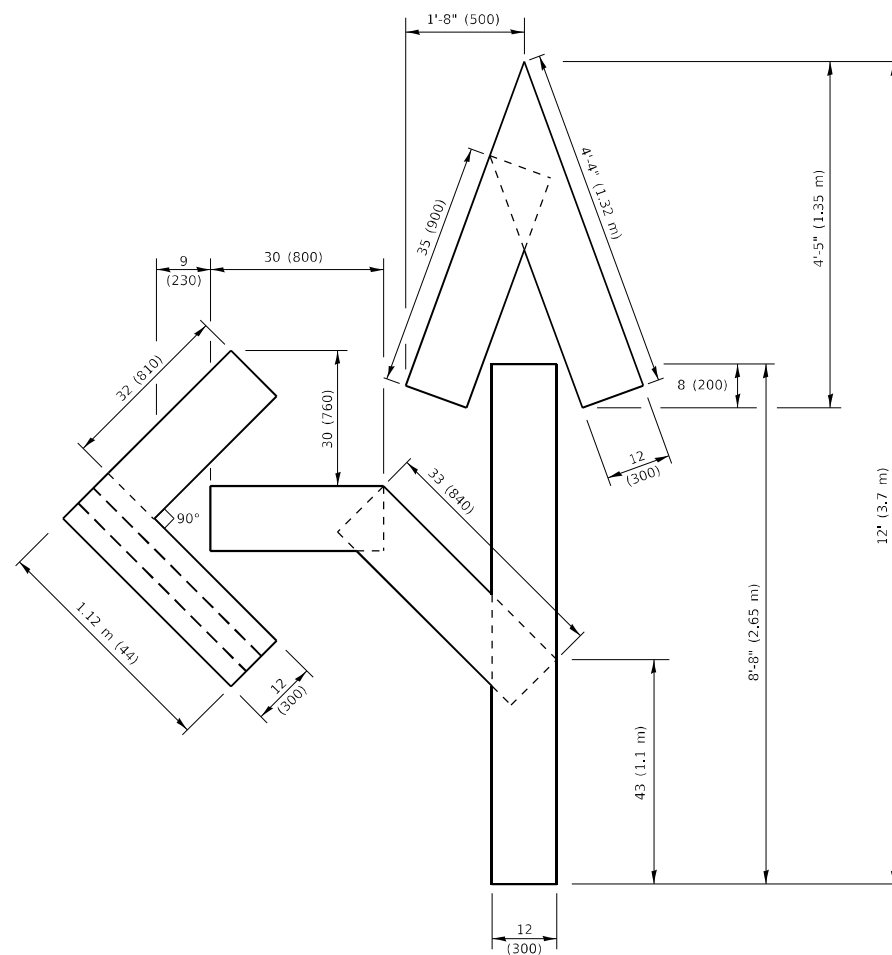
**QUANTITY**

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)

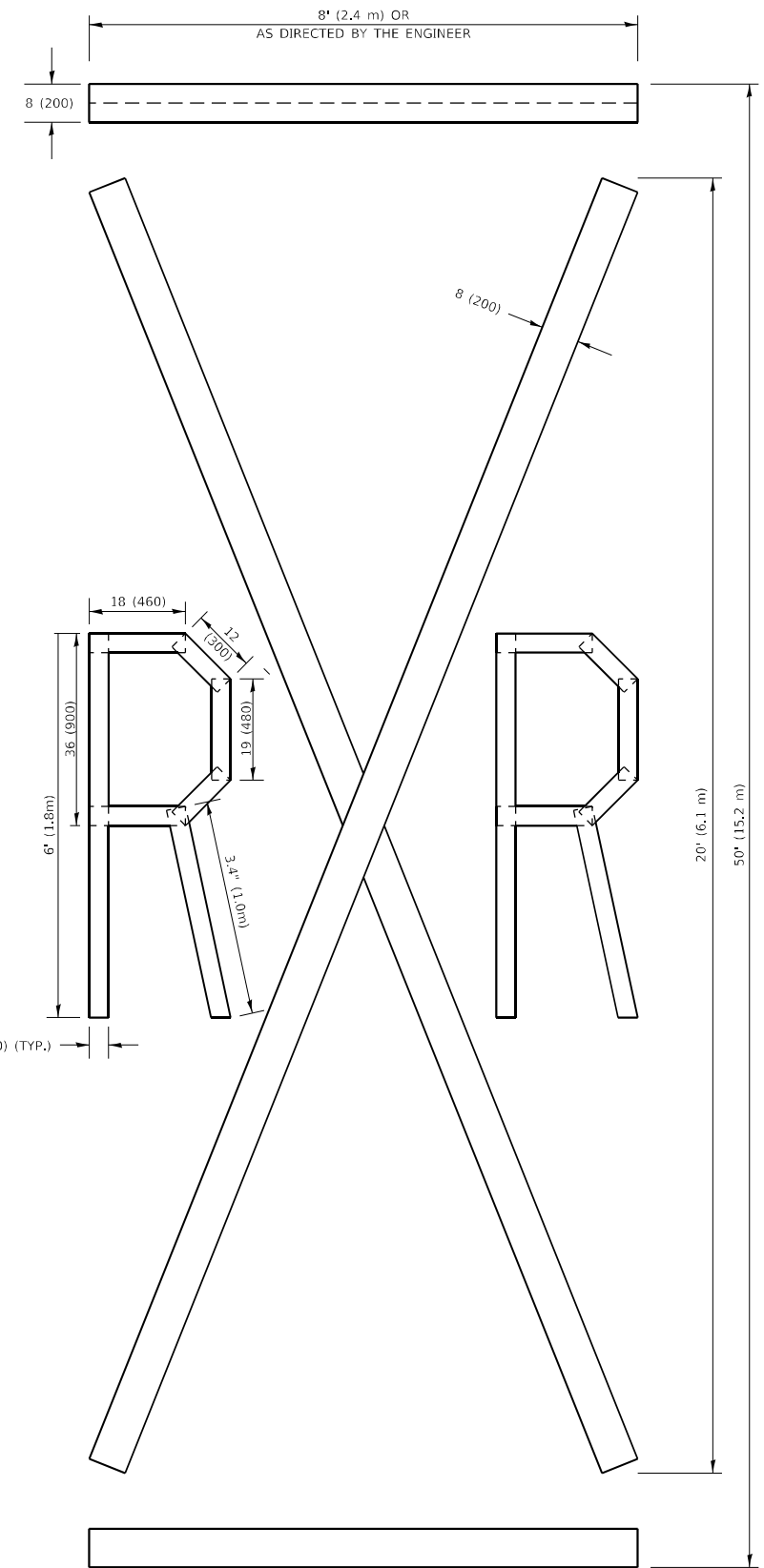


**QUANTITY**

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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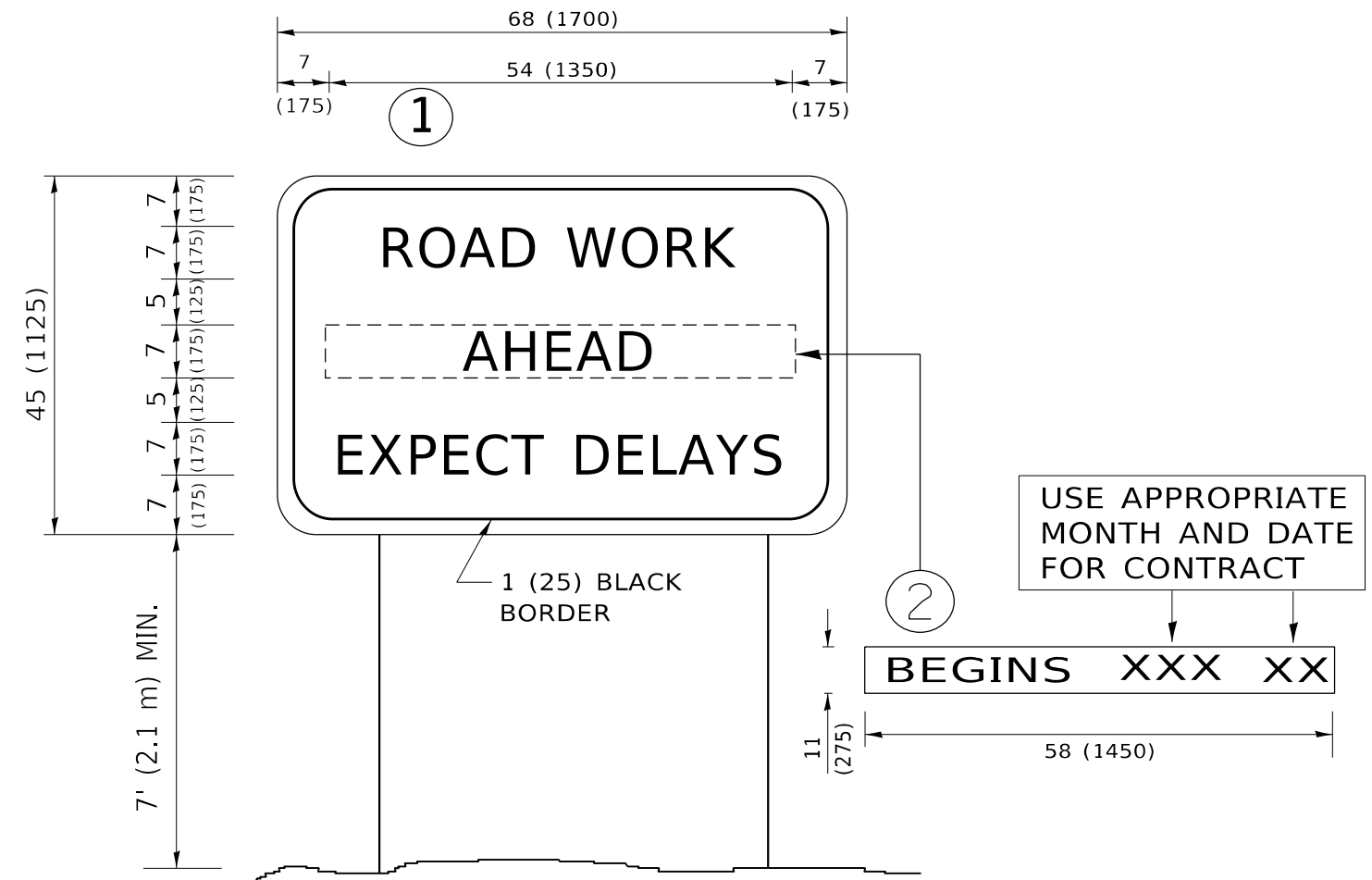
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PLOT DATE = 10/29/2024	DATE - 09-18-94	REVISED - A. SCHUETZE 09-15-16

**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.
303	FAP 0303 22 RS2	MCHENRY	21	19
<b>TC-16</b>		CONTRACT NO. 62R96		
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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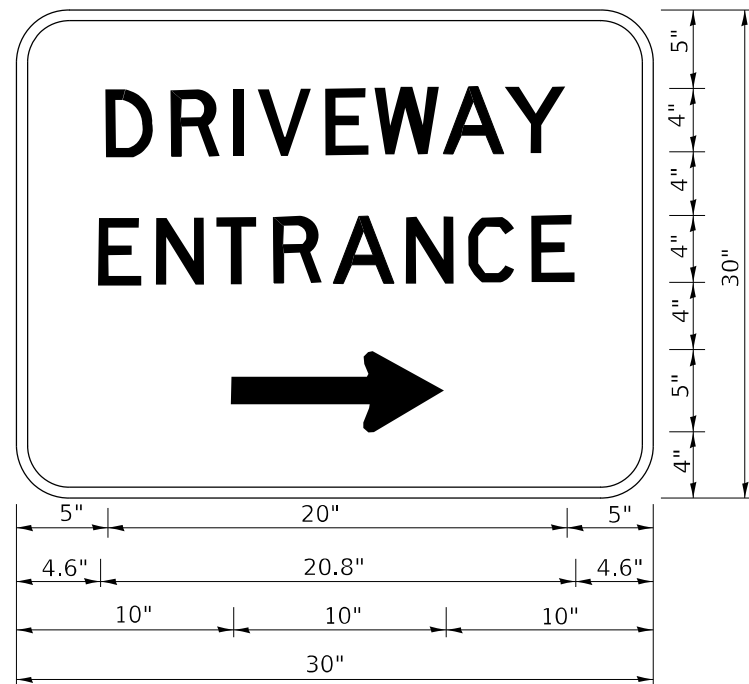
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PLOT DATE = 10/29/2024	DATE -	REVISED - C. JUCIUS 01-31-07

**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.
303	FAP 0303 22 R52	MCHENRY	21	20
<b>TC-22</b>			CONTRACT NO. 62R96	
ILLINOIS FED. AID PROJECT				



3.0" RADIUS, 0.5" BORDER, WHITE ON GREEN; REFLECTORIZED  
 "DRIVEWAY" D; "ENTRANCE" D; STANDARD ARROW CUSTOM 12.0" x 5.0"

NOTES:

1. HALF OF THE SIGNS WILL REQUIRE A LEFT HAND FACING ARROW.
2. TWO SIGNS SHALL BE USED AT EACH COMMERCIAL ENTRANCE PLACED BACK-TO-BACK: ONE WITH A RIGHT HAND ARROW (SHOWN) SHALL BE PLACED ON THE NEAR RIGHT SIDE THE DRIVEWAY AND ONE WITH A LEFT HAND ARROW SHALL BE PLACED ON THE FAR LEFT SIDE OF THE DRIVEWAY.
3. SIGNS TO BE PAID FOR AS ITEM "TEMPORARY INFORMATION SIGNING".

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USER NAME = nicholas.habul	DESIGNED -	REVISED - C. JUCIUS 02-15-07
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PLOT SCALE = 100,0000' / in.	CHECKED -	REVISED -
PLOT DATE = 10/29/2024	DATE -	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**DRIVEWAY ENTRANCE SIGNING**

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
303	FAP 0303 22 R52	MCHENRY	21	21
<b>TC-26</b>			CONTRACT NO. 62R96	
ILLINOIS FED. AID PROJECT				