FOR INDEX OF SHEETS, SEE SHEET NO. 2

IMPROVEMENT LOCATED WITHIN UNINCORPORATED RILEY TOWNSHIP

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS**

PROPOSED HIGHWAY PLANS

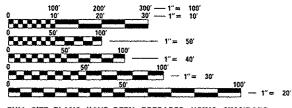
FAP 324 (ILLINOIS ROUTE 23) SECTION: 24-RS-4 POPLAR ROAD TO INTERSTATE 90 (JANE ADAMS MEMORIAL TOLLWAY)

RESURFACING

DESIGN DESIGNATION OTHER PRINCIPAL ARTERIAL

MCHENRY COUNTY C-91-304-11

TRAFFIC DATA IL ROUTE 23 2010 ADT = 2250SPEED LIMIT = 55 MPH



ENGINEERING SCALES, REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES, IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

PROJECT BEGINS STA 106 + 80

PROJECT ENDS STA 221 + 75 **OMISSION ENDS** STA 203+55 OMISSION BEGINS STA 188+00 SCALE: NTS

CONTACT JULIE AT 811 OR 800-892-0123

CITY-TWNSHP. = RILEY ILLINOIS SEC. & 1/4 SEC. NO. = 26
ONE-CALL SYSTEM 48 HOURS (2 working days) BEFORE YOU DIG RILEY TOWNSHIP

GROSS LENGTH OF IMPROVEMENT = 11,495 LF OR 2.177 MILES NET LENGTH OF IMPROVEMENT = 9.940 LF OR 1.883 MILES

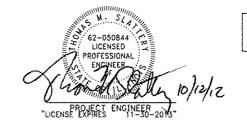
DISTRICT ONE -

PROJECT MANAGER: KEN ENG (847) 705-4247 (IDOT)

PROJECT ENGINEER: ROBERT LENZINI (815) 459-1260 (BAXTER & WOODMAN)

CONTRACT NO. 60N34

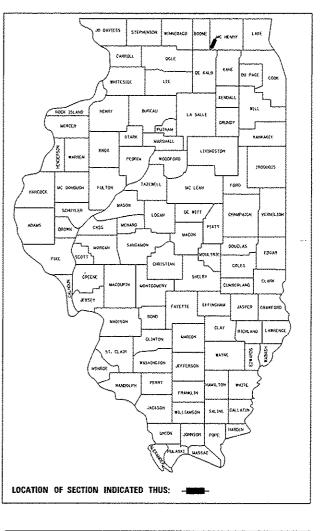




24-RS-4 FED. ROAD DIST. NO

0-91-304-11 CONTRACT NO. 60N34

*16 4/= 17



STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION PRESIDENT OF DESIGN AND ENVIROND TO 2013

CONSTRUCTION OF HIGHWAYS, CHIEF ENV

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

B&W PROJECT NO.: 100153

INDEX OF SHEETS

SHEET NO.	DESCRIPTION	STANDARD NO.	DESCRIPTION
1	TITLE SHEET	000001 - 06	STANDARD SYMBOLS, ABBREVIATIONS, AND PATTERNS
2	INDEX OF SHEETS, HIGHWAY STANDARDS & GENERAL NOTES	442201 - 03	CLASS C AND D PATCHES
3-3A.	SUMMARY OF QUANTITIES	635006- <i>0.3</i>	REFLECTOR AND TERMINAL MARKER PLACEMENT
4 - 5	EXISTING AND PROPOSED TYPICAL SECTIONS	701006 ~ 04	OFF-ROAD OPERATIONS, 2L, 2W, 15' (4.5M) TO 24" (600mm) FRO PAVEMENT EDGE
6 - 10	ROADWAY AND PAVEMENT MARKING PLANS	701011 - <i>03</i>	OFF-ROAD MOVING OPERATIONS, 2L, 2W, DAY ONLY
11	(BD-22) PAVEMENT PATCHING FOR HMA SURFACED PAVEMENT	701301 - 04	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
12	(BD-32) BUTT JOINT AND HMA TAPER DETAILS	701306 - <i>03</i>	LANE CLOSURE, 2L, 2W, SLOW MOVING OPERATIONS DAY ONLY.
13	(TC-10) TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS.	·	FOR SPEEDS > 45 MPH
	INTERSECTIONS, AND ORIVEWAYS	701311 - <i>03</i>	LANE CLOSURE, 2L, 2W MOVING OPERATIONS - DAY ONLY
14	(TC-11) TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT)	701336 -06	LANE CLOSURE, 2L, 2W, WORK AREAS IN SERIES, FOR SPEEDS > 45 MPH
15	(TC-13) TYPICAL PAVEMENT MARKINGS	701901-0Z	TRAFFIC CONTROL DEVICES
16	(TC-22) ARTERIAL ROAD INFORMATION SIGNING		

COMMITMENTS

THE ENGINEER SHALL CONTACT MR. DAVID DIAMOND, RILEY TOWNSHIP HIGHWAY COMMISSIONER, AT 815-568-6221 TWO WEEKS PRIOR TO THE START OF CONSTRUCTION.

GENERAL NOTES

- 1. ALL CONSTRUCTION SHALL BE DONE IN ACCORDANCE WITH THE DETAILS IN THE PLANS, THE SPECIAL PROVISIONS INCLUDED IN THE CONTRACT DOCUMENTS, AND THE LATEST EDITION OF THE FOLLOWING STATE OF ILLINOIS SPECIFICATIONS: "THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" (REFERED TO AS THE "STANDARD SPECIFICATIONS"), THE "SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS". THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS" AND THE "MANUAL OF TEST PROCEDURES FOR MATERIALS".
- 2. BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL "J.U.L.I.E." AT (800) 892-0123 FOR FIELD LOCATIONS OF BURIED ELECTRIC, TELEPHONE, AND GAS FACILITIES. 48 HOUR NOTIFICATION REQUIRED.
- 3. THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON STATE PROPERTY WITHOUT THE WRITTEN PERMISSION OF THE DEPARTMENT.
- 4. THE CONTRACTOR SHALL COORDINATE ALL CONSTRUCTION ACTIVITIES WITH UTILITY
- 5. BUTT JOINTS WILL BE INSTALLED AT THE ENDS OF ALL RESURFACING (WHERE RESURFACING MEETS EXISTING PAVEMENT), IN ACCORDANCE WITH THE "BUTT JOINT AND HMA TAPER DETAILS" SHEET INCLUDED IN THE PLANS UNLESS OTHERWISE
- 6. WHEN MILLED PAVEMENT IS OPEN TO TRAFFIC, THE MAXIMUM GRADE DIFFERENTIAL BETWEEN PASSES OF THE MILLING MACHINE SHALL NOT EXCEED 1 1/2 INCHES WHERE THE SPEED LIMIT IS 45 MPH OR LESS AND 1 INCH WHERE THE SPEED LIMIT IS GREATER THAN 45 MPH. WITH WRITTEN APPROVAL FROM THE ENGINEER, A MAXIMUM GRADE DIFFERENTIAL OF 3 INCHES MAY BE ALLOWED IF THE EDGE OF MILLING IS SLOPED AT A MINIMUM OF 1:3 (V:H).
- 7. THE ENGINEER SHALL CONTACT DEBBIE HANLON, THE AREA TRAFFIC FIELD ENGINEER, AT (847) 438-2300 A MINIMUM OF TWO (2) WEEKS PRIOR TO INSTALLATION OF PERMANENT PAVEMENT MARKINGS. THE RESIDENT ENGINEER IS RESPONSIBLE FOR RECORDING EXISTING PAVEMENT MARKINGS PRIOR TO HMA SURFACE REMOVAL.
- 8. THE CONTRACTOR SHALL CONTACT THE IDOT TRAFFIC CONTROL SUPERVISOR AT (847) 705-4470 A MINIMUM OF 72 HOURS IN ADVANCE OF BEGINNING WORK.
- 9. ALL PAVEMENT PATCHING LOCATIONS WILL BE DETERMINED IN THE FIELD BY THE ENGINEER.
- 10. DOUBLE LANE MARKERS ARE TO BE USED AS SHOWN ON THE DISTRICT ONE DETAIL "TYPICAL APPLICATIONS - RAISED REFLECTIVE MARKERS (SNOW-PLOW RESISTANT)" SHOWN IN THE PLANS.
- 11. BEFORE BEGINNING 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 AS DIRECTED BY THE ENGINEER.
- 12. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL DIMENSIONS AND CONDITIONS EXISTING IN THE FIELD PRIOR TO CONSTRUCTION AND ORDERING
- 13. THE CONTRACTOR SHALL BE REQUIRED TO PROVIDE ACCESS TO ABUTTING PROPERTY AT ALL TIMES DURING THE CONSTRUCTION OF THIS PROJECT.
- 14. WHEN CONSTRUCTION OPERATIONS ON TWO-LANE ROADS OPEN TO TRAFFIC RESULT IN THE REMOVAL OR COVERING OF ANY PAVEMENT MARKING INDICATING PASSING RESTRICTIONS, "NO PASSING ZONES STRIPED NEXT ____ MILES" SIGNS SHALL BE USED. THE CONTRACTOR SHALL PLACE THE SIGNS AT THE BEGINNING OF THE UNSTRIPED AREA, JUST BEYOND EACH MAJOR INTERSECTION WITHIN THE UNSTRIPED AREA, AND AT SUCH LOCATIONS AS THE ENGINEER MAY DIRECT TO ENSURE A MINIMUM SPACING OF FIVE MILES.

DESIGNED	-	TMS	REVISED -
DRAWN	-	BC0	REVISED -
CHECKED	-	RWL	REVISED -
DATE	,	12-12-10	FILE 100153-W015-GEN-NOTE, sht

HIGHWAY STANDARDS

FROM

DEPARTMENT OF TRANSPORTATION

COPPERING • 2002. BY BAXTER & MODUNAN, NC. 511RE OF LUNDS - PROFESSIONAL DESIGN FRA LUCKSE NG. - 28-0012. ERMES - ALGORDY 5678 OF 1072/2012 - 8-44.27 AM

				100/57	ATE
				CONSTRUCT	TION TYPE
	SUMMARY OF QUANTITIES	44444444444444444444444444444444444444	URBAN	COI	JE
			TOTAL	0005	
CODE NO.	ITEM DESCRIPTION	UNIT	QUANTITY	QUANTITY	
40600200	BITUMINOUS MATERIALS (PRIME COAT)	TON	23	23	
40000200	OTTOWNSOOD MATERIALS (FRAME COAT)	10,4		23	
40600300	ACCRECATE (PRIME COAT)	TON	, may		
40000300	AGGREGATE (PRIME COAT)	TON	177	177	······································
40000400	HINTING FOR CRACKS, ICHINTO AND STANDSTANDS				
40600400	MIXTURE FOR CRACKS, JOINTS, AND FLANGEWAYS	TON	3	3	·
47000007					
40600827	POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50	TON	1,249	1,249	
· · · · · · · · · · · · · · · · · · ·					
40600895	CONSTRUCTING TEST STRIP	EACH	2	2	
		_		-	
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQYD	90	90	
					· · · · · · · · · · · · · · · · · · ·
40601005	HOT-MIX ASPHALT REPLACEMENT OVER PATCHES	TON	245	245	
					
40603340	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70	TON	2,542	2,542	
			· 		
44000158	HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/4"	SQYD	29,465	29,465	
44002212	HOT-MIX ASPHALT REMOVAL OVER PATCHES, 3"	SQ YD	1,415	1,415	

44201761	CLASS D PATCHES, TYPE I, 10 INCH	SQYD	100	100	
-					
44201765	CLASS D PATCHES, TYPE II, 10 INCH	SQ YD	650	650	
44201769	CLASS D PATCHES, TYPE III, 10 INCH	SQ YD	100	100	
44201771	CLASS D PATCHES, TYPE IV. 10 INCH	SQ YD	350	350	
48102100	AGGREGATE WEDGE SHOULDER, TYPE B	TON	1,485	1,485	· · · · · · · · · · · · · · · · · · ·

	INDICATES SPECIALTY ITEM				

* INDICATES SPECIALTY ITEM

SUMMARY OF QUANTITIES **URBAN** TOTAL 0005 CODE NO. ITEM DESCRIPTION UNIT QUANTITY QUANTITY 63100167 TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT EACH 7 7 CAL MO 67000400 ENGINEER'S FIELD OFFICE, TYPE A 3 3 LSUM 67100100 MOBILIZATION 1 1 70100460 TRAFFIC CONTROL AND PROTECTION, STANDARD 701306 LSUM LSUM 70100600 TRAFFIC CONTROL AND PROTECTION, STANDARD 701336 1 1 70300100 SHORT-TERM PAVEMENT MARKING FOOT 5,403 5,403 70300220 TEMPORARY PAVEMENT MARKING - LINE 4" FOOT 61,406 61,406 FOOT 70300280 TEMPORARY PAVEMENT MARKING - LINE 24" 96 96 70301000 WORK ZONE PAVEMENT MARKING REMOVAL SQ FT 601 601 78000200 THERMOPLASTIC PAVEMENT MARKING - LINE 4" FOOT 30,703 30,703 78000650 THERMOPLASTIC PAVEMENT MARKING - LINE 24" FOOT 48 48 78100100 RAISED REFLECTIVE PAVEMENT MARKER EACH 248 248 78201000 TERMINAL MARKER - DIRECT APPLIED EACH 7 7

* INDICATES SPECIALTY ITEM

20018500 DRAINAGE STRUCTURES TO BE CLEANED

SCALE: NONE

78300200 RAISED REFLECTIVE PAVEMENT MARKER REMOVAL

•		
2	~ ~	
•		

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EACH

EACH

248

248

100 % STATE
CONSTRUCTION TYPE
CODE

100% STATE

	CONSTRUC	CONSTRUCTION TYPE CODE			
CODE NO.	SUMMARY OF QUANTITIES ITEM DESCRIPTION	UNIT	URBAN TOTAL QUANTITY	0005 QUANTITY	
. \$	·				
Z0030850	TEMPORARY INFORMATION SIGNING	SQ FT	52	52	
X2020110	GRADING AND SHAPING SHOULDERS	UNIT	203	203	
X6333500	TRAFFIC BARRIER TERMINAL REMOVAL	EACH	7	7	

* INDICATES SPECIALTY ITEM

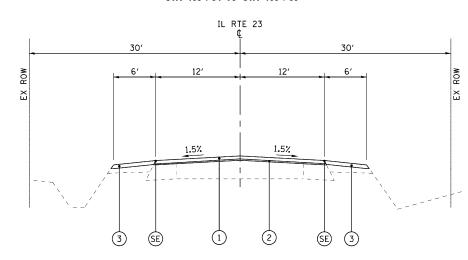
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

POPLAR ROAD TO INTERSTATE 90 SUMMARY OF QUANTITIES TO STA, SCALE

EXISTING TYPICAL SECTION IL ROUTE 23

STA 106+80 TO STA 179+44 STA 183+54 TO STA 188+00



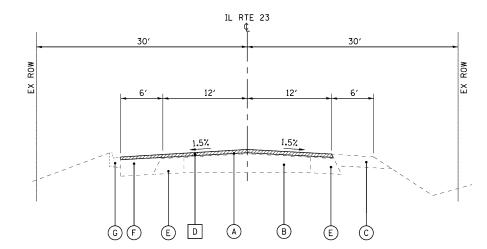
PROPOSED TYPICAL SECTION

IL ROUTE 23

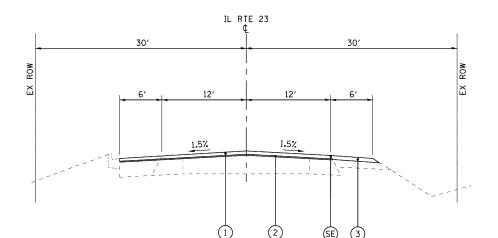
STA 106+80 TO STA 179+44 STA 183+54 TO STA 188+00

LEGEND

A	EXISTING HMA SURFACE, 3"±
	EXISTING PCC BASE, 10"±
$\widetilde{\odot}$	EXISTING AGGREGATE SHOULDER, 6"±
D	HOT-MIX ASPHALT SURFACE REMOVAL, 3"
(E)	EXISTING HOT-MIX ASPHALT BASE COURSE, 10" ±
F)	EXISTING PAVED SHOULDERS
<u></u>	EXISTING COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24
	ITEM TO BE REMOVED
1)	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70 (IL-9.5mm) - 2"
2	POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50 - 1"
1 2 3 SE	GRADING AND SHAPING SHOULDERS AND AGGREGATE WEDGE SHOULDER, TYPE B
SE)	SAFETY EDGE (SEE DETAIL) - REQUIRED ON ALL LOCATIONS WITH LESS THAN 3' OF PAVED SHOULDER



EXISTING TYPICAL SECTION IL ROUTE 23 STA 179+44 TO STA 183+54



PROPOSED TYPICAL SECTION IL ROUTE 23

STA 179+44 TO STA 183+54

NOTE:

THE CONTRACTOR SHALL PATCH FIRST BEFORE MILLING.

HOT-MIX ASPHALT MIXTURE REQUIREMENTS				
MIXTURE TYPE	AIR VOIDS © Ndes			
PAVEMENT RESURFACING	1			
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70 (IL 9.5mm)	4% @ 70 GYR.			
POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL 4.75, N50	3.5% @ 50 GYR.			
PATCHING				
CLASS D PATCHES (HMA BINDER IL-19 mm)	4% @ 70 GYR.			
HMA REPLACEMENT OVER PATCHES (HMA BINDER IL-19mm)	4% @ 70 GYR.			

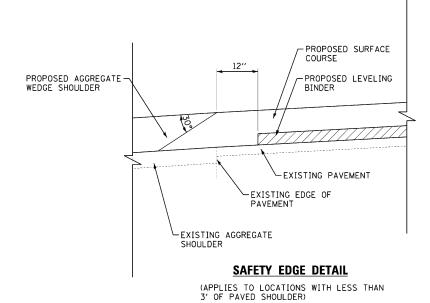
MIXTURE NOTES:

SCALE: NONE

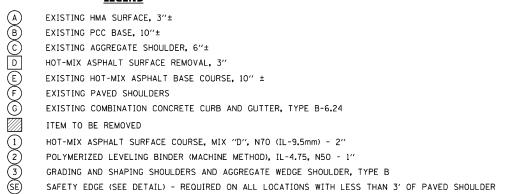
- 1. THE UNIT WEIGHT USED TO CALCULATE ALL HOT-MIX ASPHALT SURFACE MIXTURE QUANTITIES IS 112 LBS/SQ. YD./IN.
- 2. THE "AC TYPE" FOR POLYMERIZED HMA MIXES SHALL BE "SBS/SBR PG 76-22" AND FOR NON-POLYMERIZED HMA THE "AC TYPE" SHALL BE "PG 64-22" UNLESS MODIFIED BY DISTRICT ONE SPECIAL PROVISIONS.
- FOR "PERCENT RAP" SEE DISTRICT ONE SPECIAL PROVISIONS.

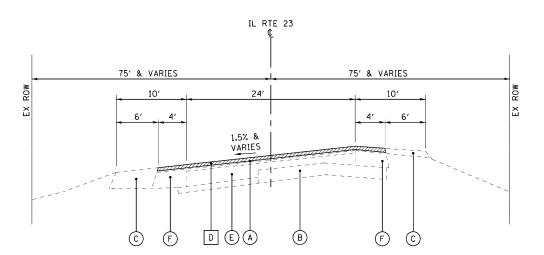
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ED -	RWL	REVISED -	DEPARTMENT OF TRANSPORTATION
-	12-12-10	FILE - 100153-wo15-TypSec.sht	

ILLINOIS ROUTE 23 POPLAR ROAD TO INTERSTATE 90 TYPICAL SECTIONS				
	STA.	TO STA.	FED.	

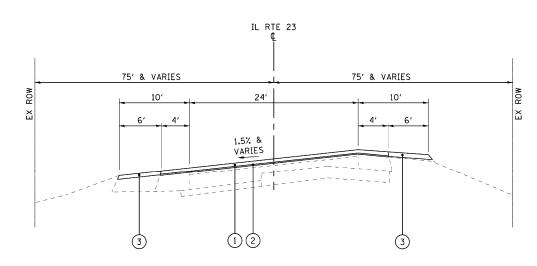


LEGEND





EXISTING TYPICAL SECTION IL ROUTE 23 STA 203+55 TO STA 221+75



PROPOSED TYPICAL SECTION IL ROUTE 23 STA 203+55 TO STA 221+75

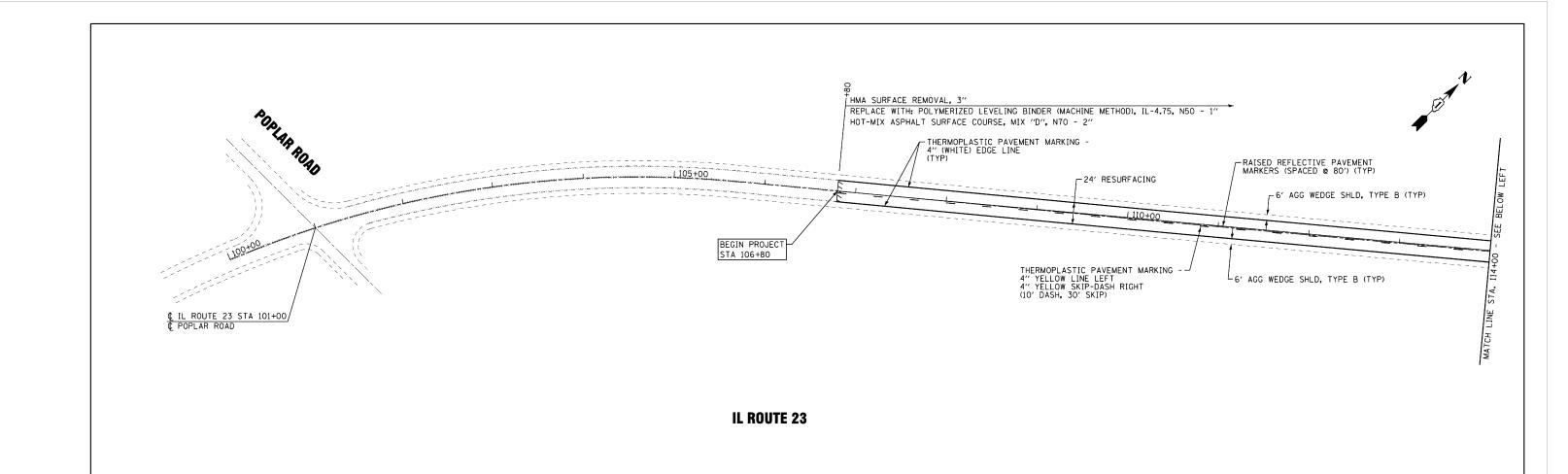
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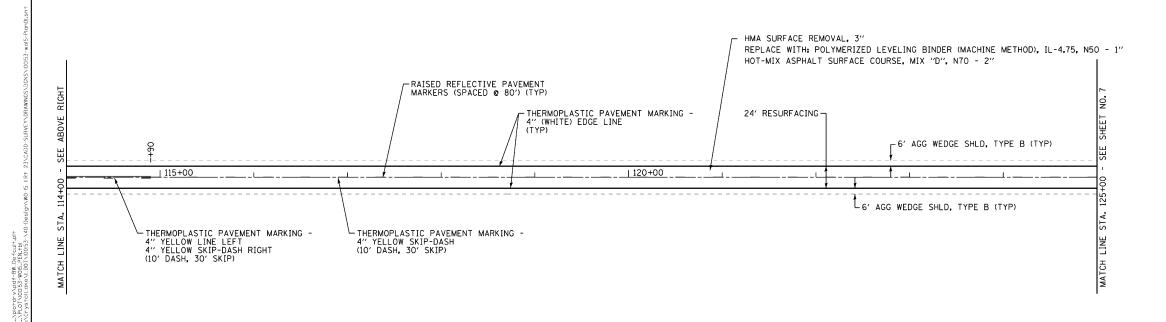
STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION** ILLINOIS ROUTE 23 POPLAR ROAD TO INTERSTATE 90 TYPICAL SECTIONS

SCALE: NONE

F.A.P. RTE. 324 COUNTY TOTAL SHEETS NO. MCHENRY 16 5 SECTION McHENRY 24-RS-4 CONTRACT NO. 60N34

FED. ROAD DIST. NO. 1 | ILLINOIS | FED. AID PROJECT







NOTE:

- 1. ALL PAVEMENT PATCHING LOCATIONS WILL BE DETERMINED BY THE RESIDENT ENGINEER.
- REFER TO DISTRICT 1 TYPICAL PAVEMENT MARKINGS (TC-13) FOR ADDITIONAL INFORMATION.
- 3. REFER TO DISTRICT 1 RAISED REFLECTIVE PAVEMENT MARKERS (TC-11) FOR ADDITIONAL INFORMATION.

IL ROUTE 23

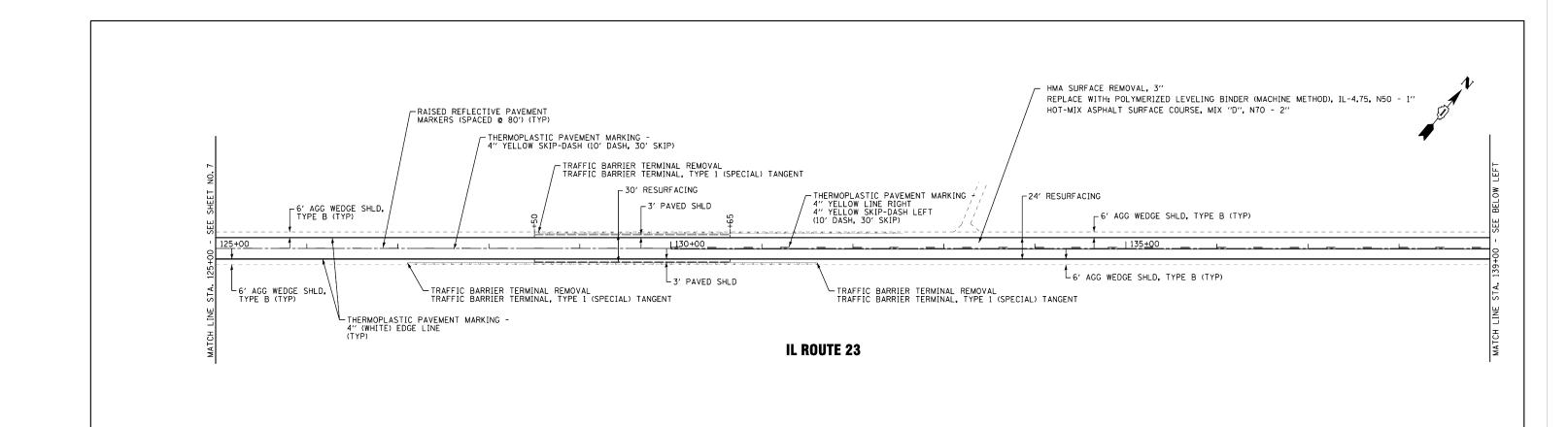
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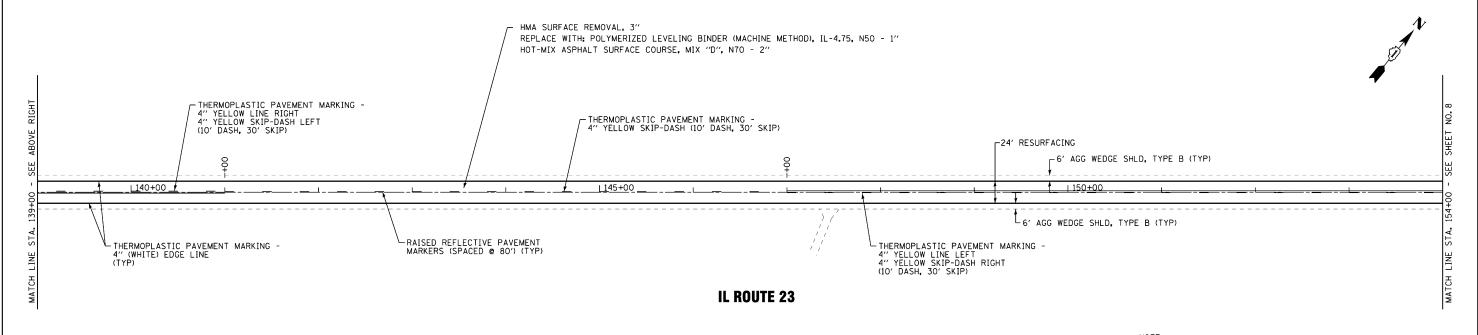
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CHECKED	-	RWL	REVISED -	1
DATE	-	12-12-10	FILE - 100153-wo15-Plan01.sh+	1

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

POPLAF	ILLINOIS ROUTE 23 POPLAR ROAD TO INTERSTATE 90												
ROADWAY A	AND PAVEME	NT MARKING	G PLAN										
CALE: 1" = 50"		STA. 100+00	TO STA.125+00										

A.P. TE.	SECTION					COUNTY	TOTAL SHEETS	SHEET NO.		
324		24-RS-4					McHENRY	16	6	
								CONTRACT	NO. 6	50N34
FD R	DAD	DIST	NΩ	1	THE TWO IS	FED	ΔΠ	PROJECT		





BAXTE
WOODMA
Constitute Ratio

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ILLINOIS ROUTE 23
POPLAR ROAD TO INTERSTATE 90
ROADWAY AND PAVEMENT MARKING PLAN

SCALE: 1" = 50' STA. 125+00 TO STA. 154+00 FEE

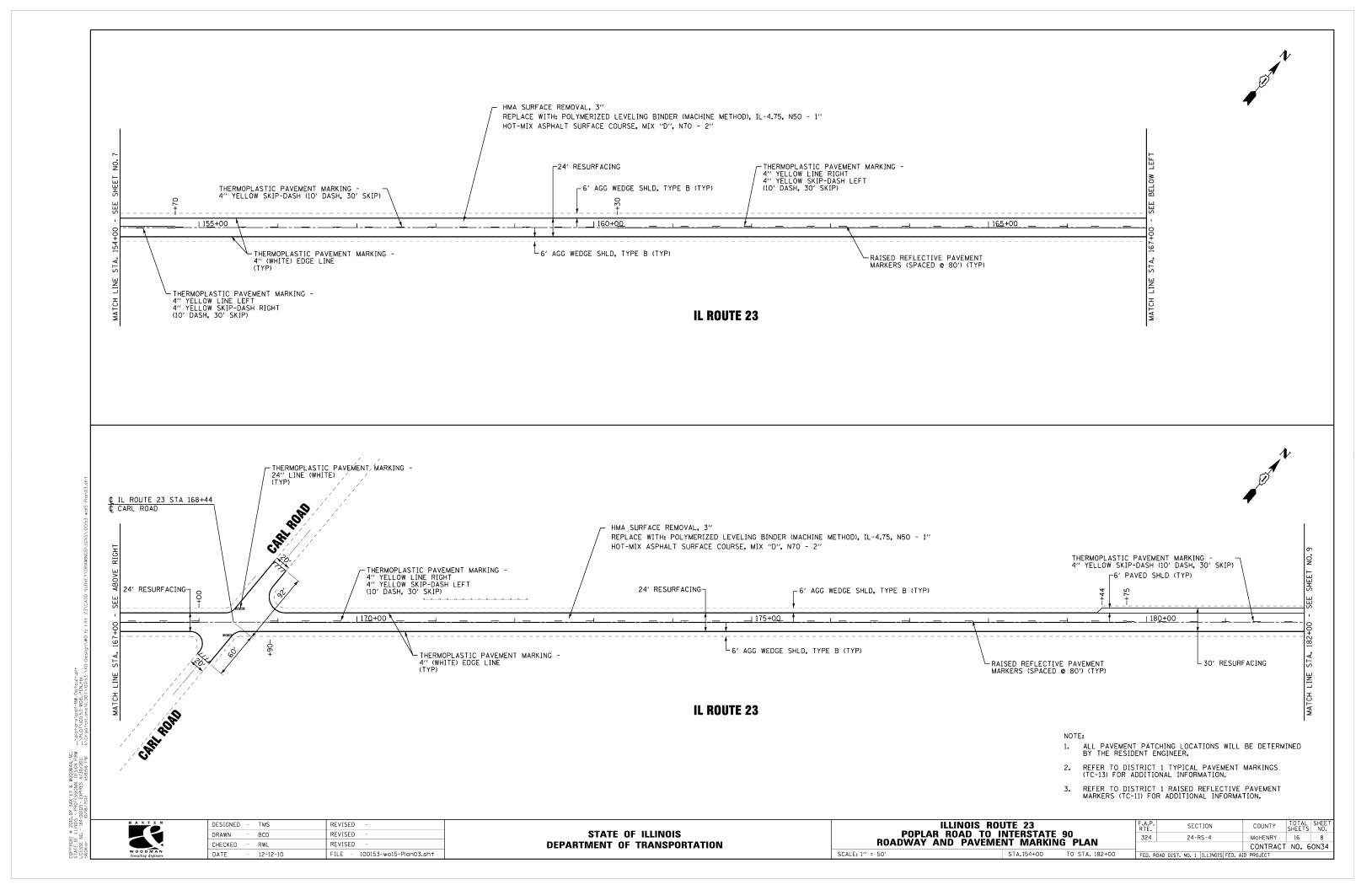
NOTE:

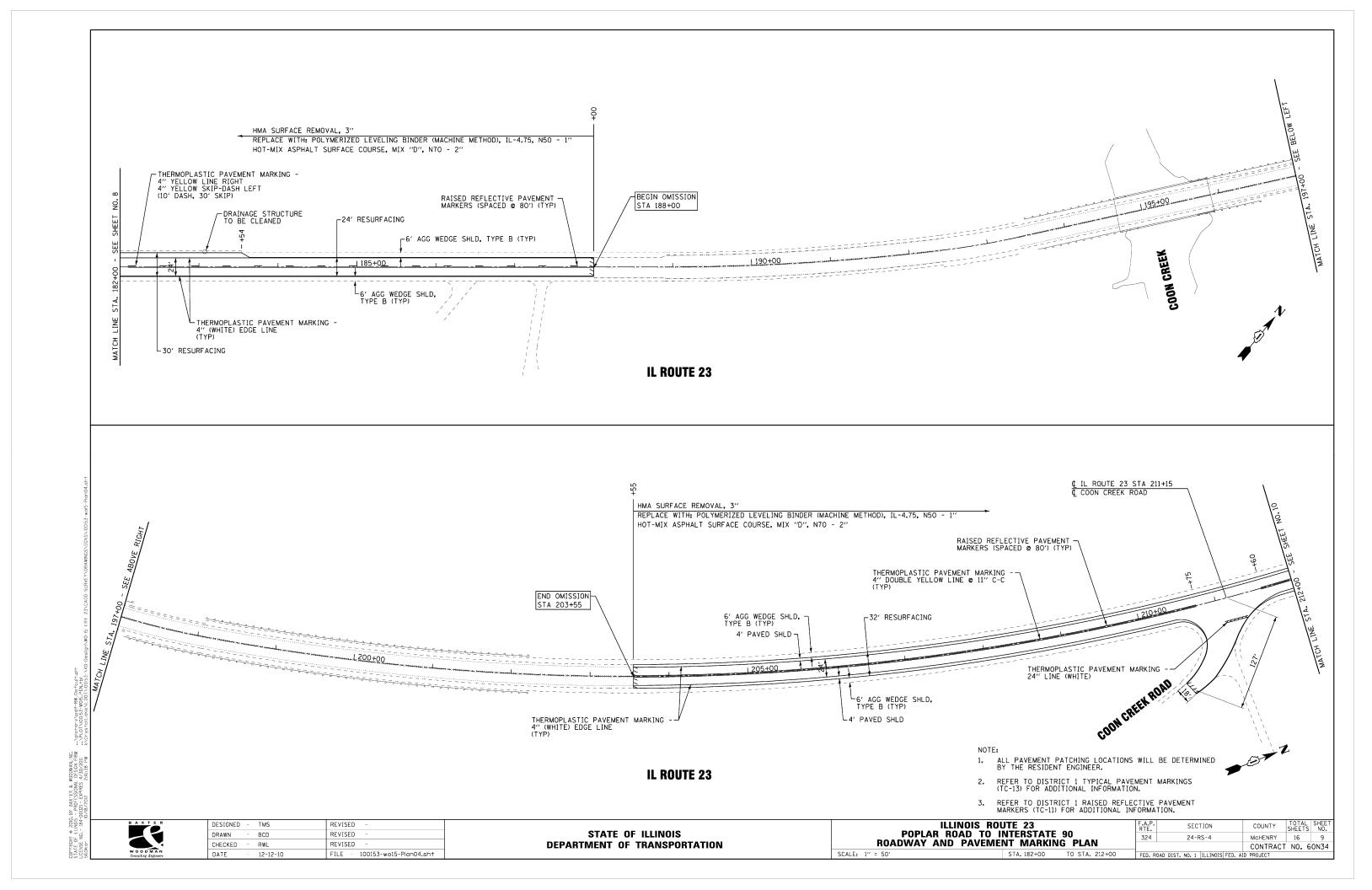
1. ALL PAVEMENT PATCHING LOCATIONS WILL BE DETERMINED BY THE RESIDENT ENGINEER.

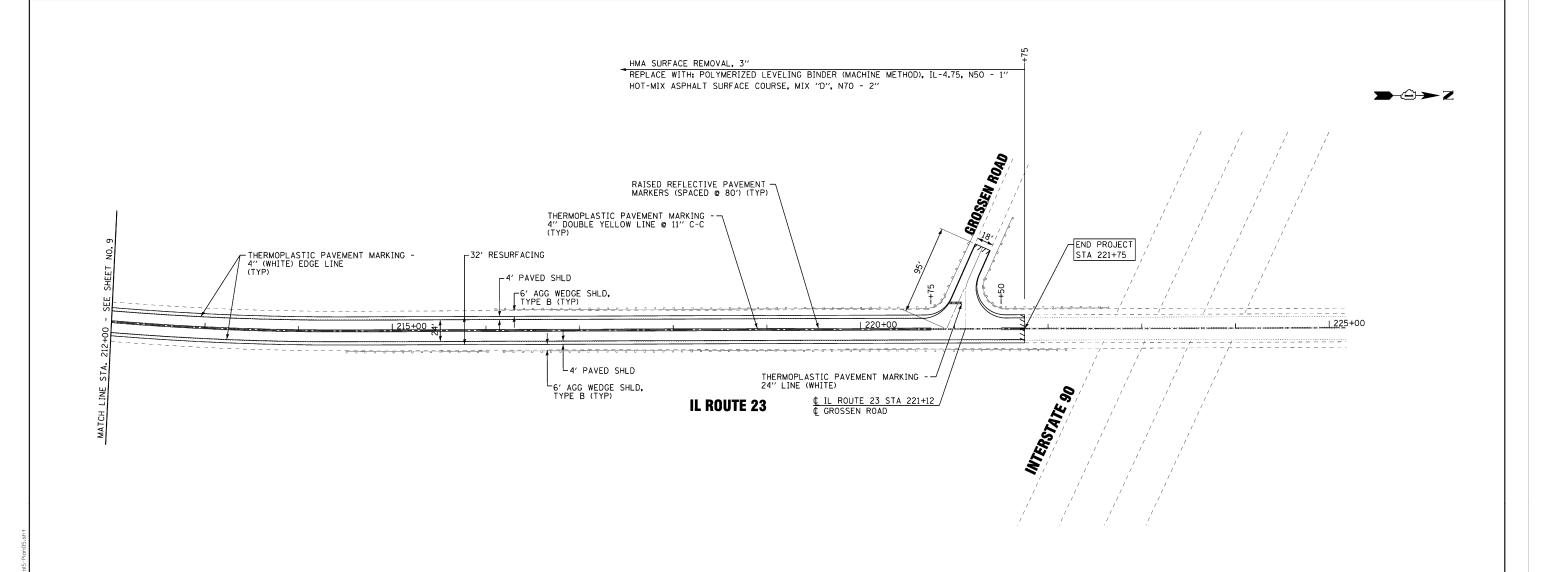
2. REFER TO DISTRICT 1 TYPICAL PAVEMENT MARKINGS (TC-13) FOR ADDITIONAL INFORMATION.

3. REFER TO DISTRICT 1 RAISED REFLECTIVE PAVEMENT MARKERS (TC-11) FOR ADDITIONAL INFORMATION.

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- 1. ALL PAVEMENT PATCHING LOCATIONS WILL BE DETERMINED BY THE RESIDENT ENGINEER.
- 2. REFER TO DISTRICT 1 TYPICAL PAVEMENT MARKINGS (TC-13) FOR ADDITIONAL INFORMATION.
- 3. REFER TO DISTRICT 1 RAISED REFLECTIVE PAVEMENT MARKERS (TC-11) FOR ADDITIONAL INFORMATION.



DESIGNED TMS REVISED REVISED BCD DRAWN REVISED FILE - 100153-wo15-Plan05.sht

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION** ILLINOIS ROUTE 23 POPLAR ROAD TO INTERSTATE 90 ROADWAY AND PAVEMENT MARKING PLAN

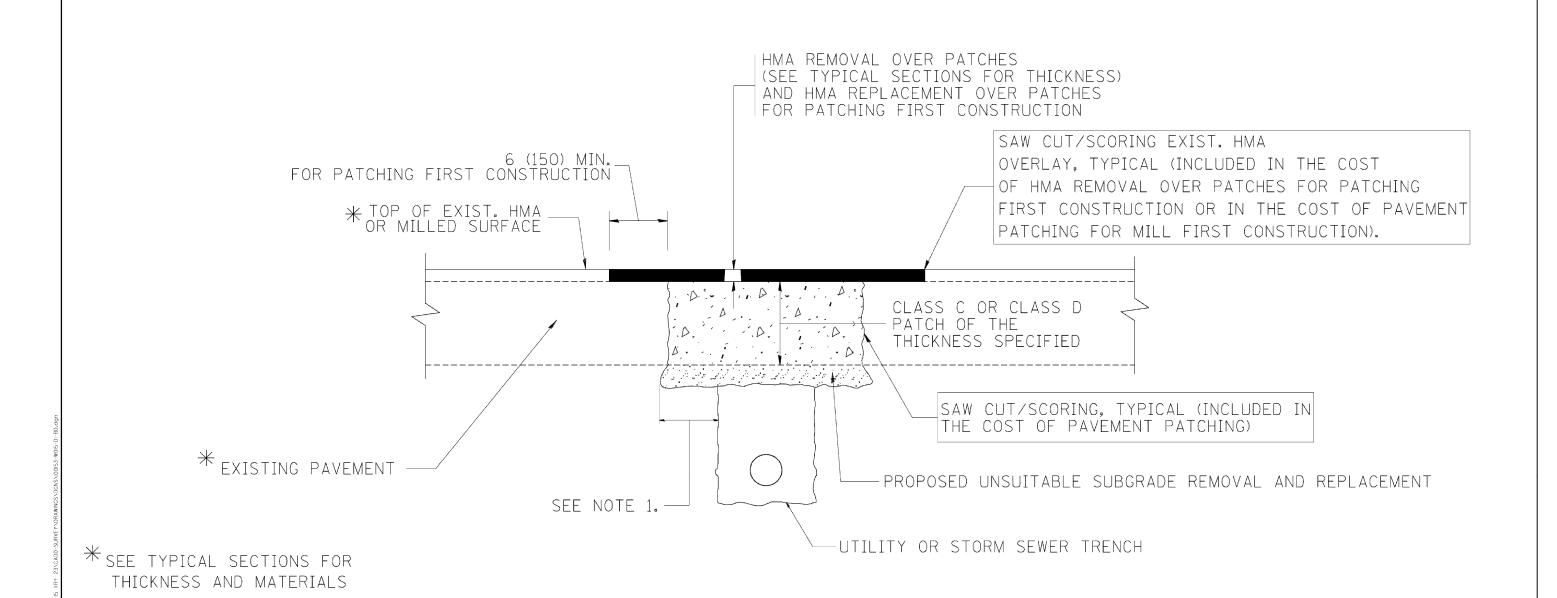
F.A.P. RTE. 324 COUNTY TOTAL SHEET NO. MCHENRY 16 10 SECTION McHENRY 24-RS-4 CONTRACT NO. 60N34

FED. ROAD DIST. NO. 1 | ILLINOIS | FED. AID | PROJECT

CHECKED - RWL

SCALE: 1" = 50'

STA.212+00 TO STA.225+00



NOTES:

- 1. THE WIDTH OF THE FULL DEPTH PATCH OVER A TRENCH SHALL BE 12 (300) WIDER ON EACH SIDE OF THE TRENCH.
- 2. FOR METHOD OF MEASUREMENT AND BASIS OF PAYMENT, SEE RECURRING SPECIAL PROVISION "PATCHING WITH HOT-MIX ASPHALT OVERLAY REMOVAL".

SEQUENCE OF CONSTRUCTION (PATCHING FIRST)

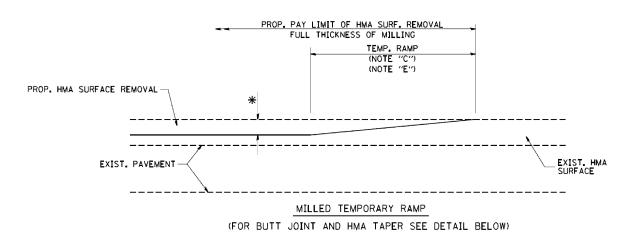
- 1. REMOVE THE EXISTING HMA MATERIAL OVER THE AREA TO BE PATCHED.
- 2. REMOVE AND REPLACE WITH CLASS C OR D PATCH.
- 3. REPLACE HMA MATERIAL OVER THE AREA TO BE PATCHED.

SEQUENCE OF CONSTRUCTION (MILLING FIRST)

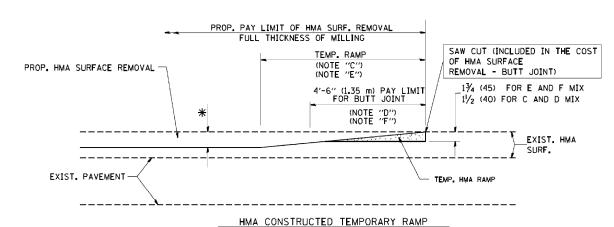
- 1. MILL HMA FIRST IF THERE IS AT LEAST $4\frac{1}{2}$ INCHES OR MORE OF HMA MATERIAL ON TOP OF THE EXISTING PAVEMENT OR IF THE PAVEMENT IS FULL DEPTH HMA. A MINIMUM OF 2 INCHES OF HMA MATERIAL SHALL BE IN PLACE AFTER MILLING.
- 2. REMOVE AND REPLACE WITH FULL DEPTH CLASS D PATCHES TO TOP OF MILLED SURFACE.

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

184	FILE NAME =	USER NAME = bauerdl	DESIGNED - R. SHAH	REVISED - A. ABBAS 04-27-98			PAVEMENT PATCHING FOR	F.A.	SECTION	COUNTY	TOTAL	SHEE	.T
2	c:\projects\diststd22x34\bd22.dgn		DRAWN -	REVISED - R. BORO 01-01-07	STATE OF ILLINOIS		HMA SURFACED PAVEMENT	32	24 24-RS-4	McHENRY	16	11	-
NSE NSE		PLOT SCALE = 50.000 '/ IN.	CHECKED -	REVISED - R. BORO 09-04-07	DEPARTMENT OF TRANSPORTATION				BD400-04 (BD-22)	CONTRAC	CT NO.	60N34	Τ
299		PLOT DATE = 10/27/2008	DATE - 10-25-94	REVISED - K. ENG 10-27-08		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS STA. TO STA.	FED	D. ROAD DIST. NO. 1 ILLINOIS FED. AL	ID PROJECT			



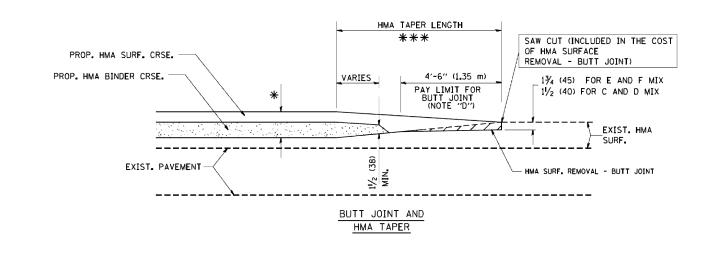
OPTION 1



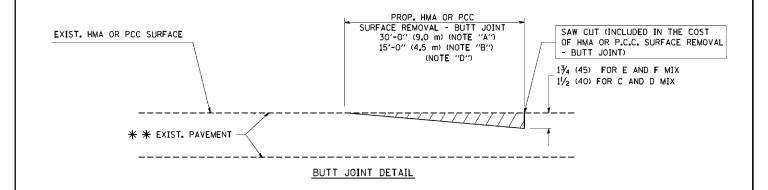
(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

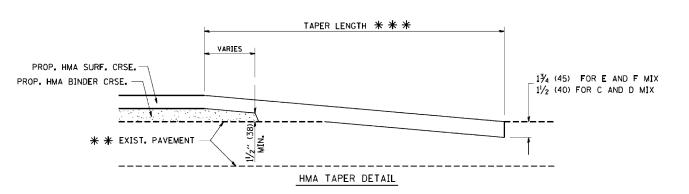
OPTION 2

TYPICAL TEMPORARY RAMP



TYPICAL BUTT JOINT AND HMA TAPER FOR MILLING AND RESURFACING





TYPICAL BUTT JOINT AND HMA TAPER FOR RESURFACING ONLY

* * PC CONCRETE, HMA OR HMA RESURFACED PAVEMENT.

NOTES

- A: MAINLINE ROADWAYS AND MAJOR SIDE ROADS.
- 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'-0" (900 mm) PER 1 INCH (25 mm) OF MILLING THICKNESS.
- F: INSTALLATION AND REMOVAL OF THE 4'-6" (1.35 m) TEMP. RAMP IS INCLUDED IN COST OF HMA SURFACE REMOVAL BUTT JOINT
- G: SEE ARTICLE 406.08 AND 406.14 OF THE STANDARD SPECIFICATIONS FOR "HMA AND/OR PCC SURFACE REMOVAL, BUTT JOINT".
- * SEE TYPICAL SECTIONS FOR MILLING THICKNESS.

BASIS OF PAYMENT:

THE BUTT JOINT WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER SOUARE YARD (SQUARE METER) FOR "HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT" OR FOR "PORTLAND CEMENT CONCRETE SURFACE REMOVAL- BUTT JOINT".

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

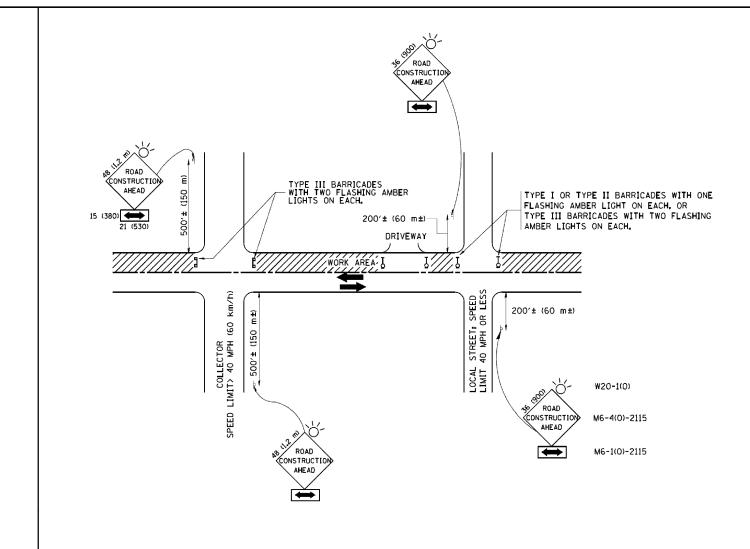
FILE NAME = USER NAME = gaglianobt DESIGNED - M. DE YONG REVISED - R. SHAH 10-25-94

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PLOT DATE = 1/4/2008 DATE - 06-13-90 REVISED - R. BORO 01-01-07

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



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

NOTES:

- A. FOR NO LANE RESTRICTION ON THE SIDE ROAD OR DRIVEWAYS
- 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:
- Q) ONE ROAD CONSTRUCTION AHEAD SIGN 36 x 36 (900x900) WITH A FLASHER AND FLAG 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:
- o) ONE ROAD CONSTRUCTION AHEAD SIGN 48 \times 48 (1.2 m \times 1.2 m) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 500' (150 m) IN ADVANCE OF THE MAIN ROUTE.
- b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE III BARRICADES, 1/2 OF THE CROSS SECTION OF THE CLOSED PORTION.
- 3. WHEN THE SIDE ROAD LIES BETWEEN THE BEGINNING OF THE MAINLINE SIGNING AND THE WORK ZONE, A SINGLE HEADED ARROW (MG-1) SHALL BE USED IN LIEU OF THE DOUBLE HEADED ARROW (MG-4).

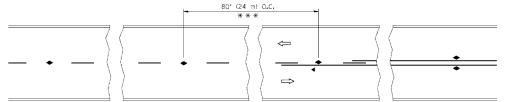
- B. FOR A LANE CLOSURE ON A SIDE ROAD OR DRIVEWAY:
- USE APPLICABLE PORTIONS OF THE TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES (STD. 701501, STD. 701606 OR THE APPROPRIATE STANDARD). THE SPACING OF SIGNS AND BARRICADES SHALL BE ADJUSTED FOR FIELD CONDITIONS AS DIRECTED BY THE ENGINEER. THE DIRECTIONAL ARROW SHALL BE COVERED OR REMOVED WHEN NO LONGER CONSISTENT WITH THE SIDE ROAD LANE CLOSURE.
- C. ADVANCE WARNING SIGNS ARE TO BE OMITTED ON DRIVEWAY UNLESS OTHERWISE NOTED.
- D. THE TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS SHALL BE INCIDENTAL TO THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

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

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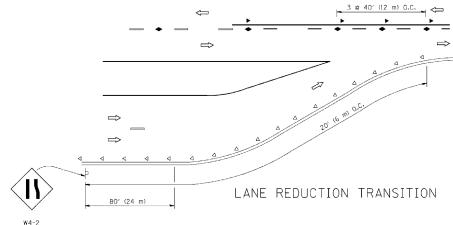
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PLOT SCALE = 50.000 '/ IN. CHECKED - REVISED - A. HOUSEH 10-15-96
PLOT DATE = 1/4/2008 DATE - 06-89 REVISED - T. RAMMACHER 01-06-00

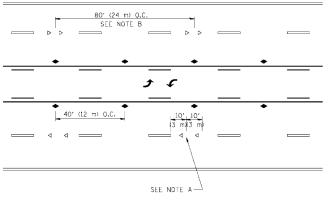
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



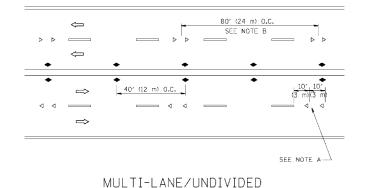
*** REDUCE TO 40' (12 m) O.C. ON CURVES WITH POSTED OR ADVISORY SPEED 45 M.P.H. (70 km/h) OR LESS.

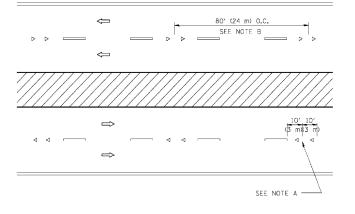
TWO-LANE/TWO-WAY





TWO-WAY LEFT TURN





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.

LANE MARKER NOTES

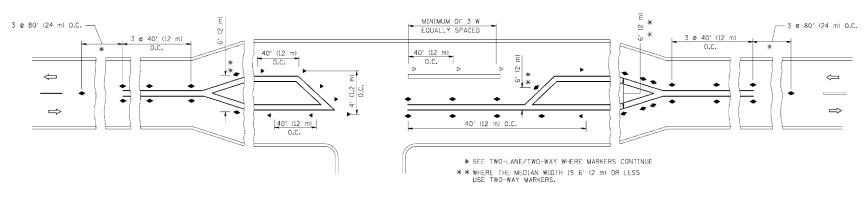
- A. USE DOUBLE LANE LINE MARKERS SPACED AS SHOWN.
- B. REDUCE TO 40' (12 m) O.C. ON CURVES WHERE ADVISORY SPEEDS ARE 10 M.P.H (20 km/h) LOWER THAN POSTED SPEEDS.

SYMBOLS

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

DESIGN NOTES

- 1. DOUBLE LANE LINE MARKERS SHALL BE USED UNLESS SPECIFIED OTHERWISE.
- 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 SHOULD BE INCLUDED IN THE PLANS
- 4. MARKERS SHOULD NOT BE USED ALONGSIDE CURBS EXCEPT FOR EXTREMELY SHORT SECTIONS OF CURBS WHERE NOT MORE THAN TWO MARKERS WOULD B INVOLVED.



LEFT TURN

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

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TYPICAL APPLICATIONS

RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT)

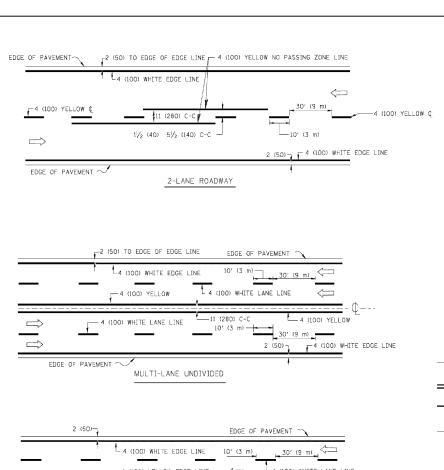
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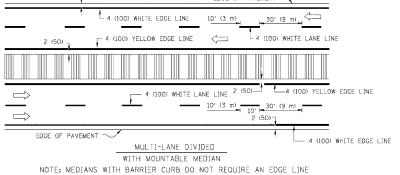
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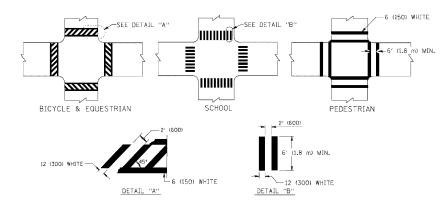
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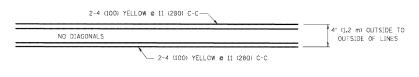




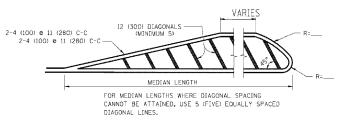
TYPICAL LANE AND EDGE LINE MARKING



TYPICAL CROSSWALK MARKING

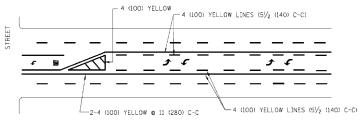


4' (1.2 m) WIDE MEDIANS ONLY

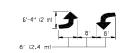


DIAGONAL LINE SPACING: 50' (15 m) C-C (LESS THAN 30MPH (50 km/h))
75' (25 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h))
150' (45 m) C-C (MORE THAN 45MPH (70 km/h))

MEDIANS OVER 4' (1.2 m) WIDE

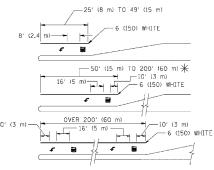


A MINIMUM OF TWO PAIRS OF TURN ARROWS SHALL BE USED, WHITE IN COLOR, ADDITIONAL PAIRS SHALL BE PLACED AT 200' (60 m) TO 300' (90 m) INTERVALS.



MEDIAN WITH TWO-WAY LEFT TURN LANE

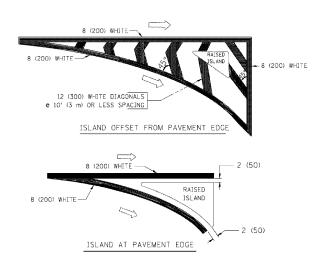
TYPICAL PAINTED MEDIAN MARKING



* 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".

TYPICAL LEFT (OR RIGHT) TURN LANE

TYPICAL TURN LANE MARKING



TYPICAL ISLAND MARKING

	I			I
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	5/2 (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 MOUNTABLE MEDIANS IN YELLOW; EDGE LINES ARE NOT USED NEXT TO BARRIER CURB
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	SKIP-DASH AND SOLID	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE FOR SKIP-DASH; 5/2 (140) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE
	8' (2.4m) LEFT ARROW	IN PAIRS	WHITE	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 CROSSMALK, IF PRESENT. OTHERMISE, 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 ml C-C (LESS THAN 30MPH (50 km/h)) 20' (6 ml C-C 30MPH (50 km/h) TO 45MPH (70 km/h)) 30' (9 ml C-C (OVER 45MPH (70 km/h))
RAILROAD CROSSING	24 (600) TRANSVERSE LINES; "RR" IS 6' (1.8 m) LETTERS; 16 (400) LINE FOR "X"	SOLID	WHITE	SEE STATE STANDARD 780001 AREA OF: "R"-3.6 SO. FT. (0.33 m ²) EACH "X"=54.0 SO. FT. (5.0 m ²)
SHOULDER DIAGONALS	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))

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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	PLOT DATE = 9/9/2009	DATE - 03-19-90	REVISED -

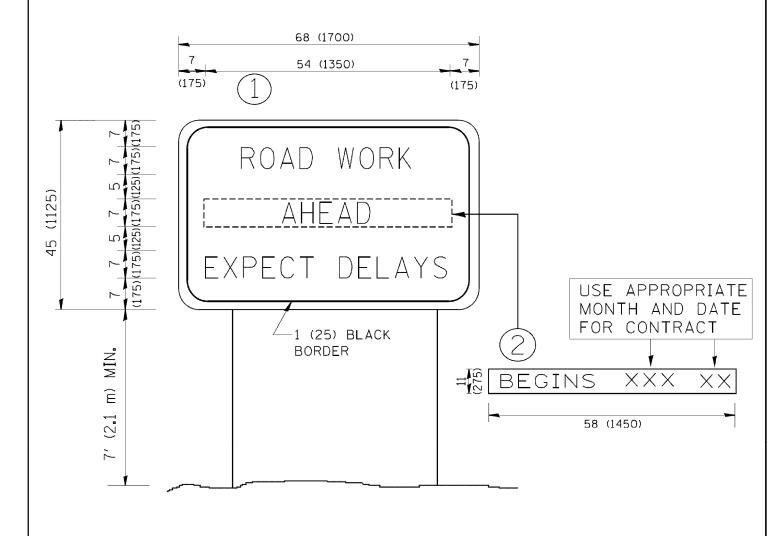
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DEPARTMENT	OF	TRANSPORTATION

	DISTRICT ONE					COUNTY	TOTAL	SHEET NO.
TYPICAL PAVEMENT MARKINGS					24-RS-4	McHENRY	16	15
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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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260		PLOT DATE = 1/4/2008	DATE -	REVISED -	C. JUCIUS 01-31-07

STATI	E OF	ILLINOIS
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ARTERIAL ROAD					F.A RTE.	SECTION	COUNTY	TOTAL	SHEET NO.	
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		HALO	MINATION .	SIGN			TC-22	CONTRACT	NO.	60N34
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