



**INDEX OF SHEETS:**

SHEET:	DESCRIPTION:
1	TITLE SHEET
2	INDEX OF SHEETS, STATE STANDARDS AND GENERAL NOTES
3	SUMMARY OF QUANTITIES
4	TYPICAL ROADWAY CROSS-SECTIONS
5 - 12	ROADWAY & PAVEMENT MARKING PLAN
13	PAVEMENT PATCHING FOR HMA SURFACED PAVEMENT (BD-22)
14	BUTT JOINT AND HMA TAPER DETAILS (BD-32)
15	TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS AND DRIVEWAYS (TC-10)
16	TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS (SNOW PLOW RESISTANT) (TC-11)
17	DISTRICT ONE TYPICAL PAVEMENT MARKINGS (TC-13)
18	ARTERIAL ROAD INFORMATION SIGN (TC-22)

**STATE STANDARDS:**

442201-03	CLASS C AND D PATCHES
701011-03	OFF-RD MOVING OPERATIONS, 2L, 2W, DAY ONLY
701301-04	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
701306-03	LANE CLOSURE, 2L, 2W, SLOW MOVING OPERATIONS DAY ONLY, FOR SPEEDS > 45MPH
701311-03	LANE CLOSURE, 2L, 2W, MOVING OPERATIONS - DAY ONLY
701336-06	LANE CLOSURE, 2L, 2W, WORK AREAS IN SERIES FOR SPEEDS > 45 MPH
701901-02	TRAFFIC CONTROL DEVICES

**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 IS REQUIRED.

THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES AND MANHATTAN TOWNSHIP.

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

ANY PAVEMENT MARKINGS AND RAISED REFLECTIVE PAVEMENT MARKERS OBLITERATED BY MILLING AND RESURFACING OPERATIONS ON SIDE STREETS AND ENTRANCES SHALL BE REPLACED AND PAID FOR IN KIND.

ALL DAMAGE TO EXISTING PAVEMENT MARKINGS OR RAISED REFLECTIVE PAVEMENT MARKERS OUTSIDE THE REMOVAL LINE SHOWN ON THE PLANS SHALL BE REPLACED AT NO ADDITIONAL COST TO THE DEPARTMENT.

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 AS DIRECTED BY THE ENGINEER.

ALL PAVEMENT PATCHING LOCATIONS WILL BE DETERMINED IN THE FIELD BY THE ENGINEER.

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

THE CONTRACTOR SHALL CONTACT THE DISTRICT ONE TRAFFIC CONTROL SUPERVISOR AT (847)705-4470 A MINIMUM OF 72 HOURS IN ADVANCE OF BEGINNING WORK.

THE ENGINEER SHALL CONTACT CORY JUCIUS, ARTERIAL TRAFFIC OPERATION ENGINEER, AT (847) 705-4411 A MINIMUM OF TWO (2) WEEKS PRIOR TO THE PLACEMENT OF PERMANENT PAVEMENT MARKINGS.

THE THICKNESS OF THE HMA MIXTURE SHOWN ON THE PLANS IS THE NOMINAL THICKNESS DEVIATIONS FROM THE NOMINAL THICKNESS WILL BE PERMITTED WHEN SUCH DEVIATIONS OCCUR DUE TO IRREGULARITIES IN THE EXISTING SURFACE OR BASE ON WHICH THE HMA MIXTURE IS PLACED.

THE CONTRACTOR SHALL BE REQUIRED TO PROVIDE ACCESS TO ABUTTING PROPERTY AT ALL TIMES DURING THE CONSTRUCTION OF THIS PROJECT.

DO NOT SCALE PLANS FOR CONSTRUCTION DIMENSIONS.

PAVEMENT MARKING TAPE, TYPE III SHALL BE USED FOR SHORT TERM PAVEMENT MARKINGS ON ALL FINAL SURFACES. THE COST OF THE PAVEMENT MARKING TAPE, TYPE III AND ITS REMOVAL SHALL BE INCLUDED IN THE COST OF SHORT TERM PAVEMENT MARKING.

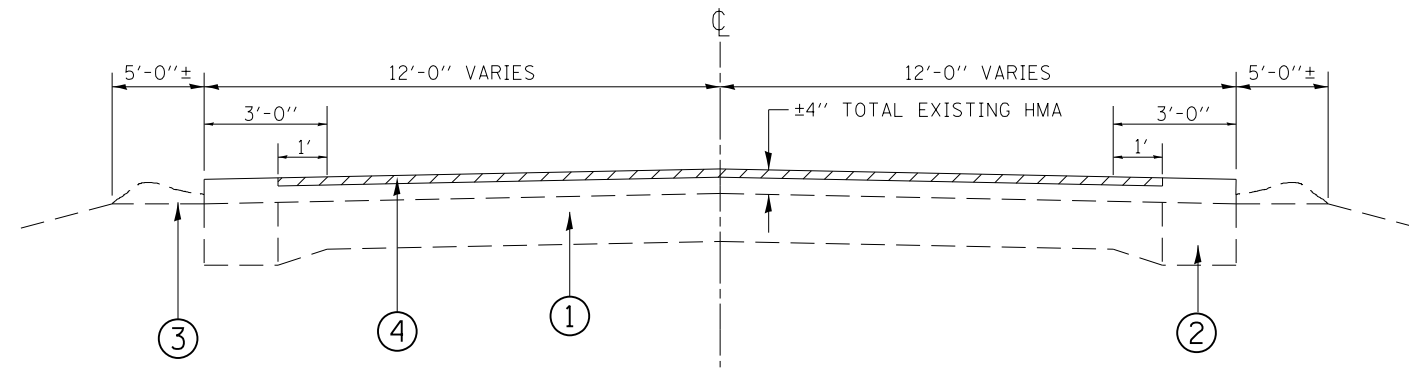
WHEN THE MILLED PAVEMENT IS OPEN TO TRAFFIC THE MAXIMUM GRADE DIFFERENTIAL BETWEEN PASSES OF THE MILLING MACHINE SHALL NOT EXCEED 1 1/2 INCHES (40 mm) WHERE THE SPEED LIMIT IS 40 MPH (80 km/h) OR LESS AND 1 INCH (25 mm) WHERE THE SPEED LIMIT IS GREATER THAN 40 MPH (80 km/h). WITH WRITTEN APPROVAL OF THE ENGINEER, A MAXIMUM GRADE DIFFERENTIAL OF 3 INCHES (75 mm) MAY BE ALLOWED IF THE EDGE OF THE MILLING IS SLOPED A MINIMUM 1:3 (V:H).

OVERNIGHT LANE CLOSURES SHALL NOT BE ALLOWED FOR REHABILITATION 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.

ALL GROUND PAVEMENT MARKINGS SHALL BE REMOVED FROM PAVEMENT BEFORE HOT-IN-PLACE RECYCLING OPERATION BEGINS.

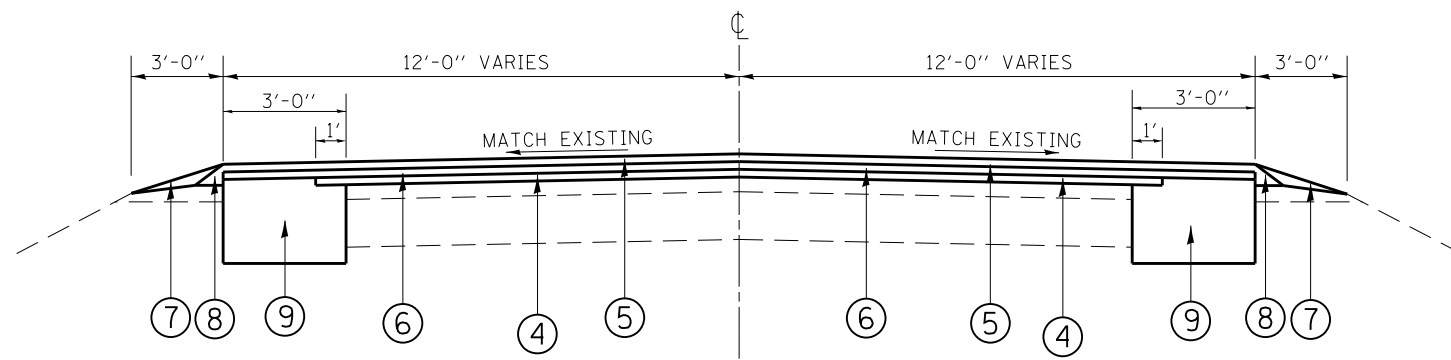
FILE NAME :	USER NAME : pyzranowskirb	DESIGNED :	REVISED :	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>MANHATTAN-MONEE ROAD (SCHOOLHOUSE RD. TO CENTER RD.) INDEX OF SHEETS, STATE STANDARDS, AND GENERAL NOTES</b>	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
c:\pwork\pavidot\pyzranowskirb\020600\0134111-ah-plot.dgn	DRAWN :	REVISED :	531			40X-RS-9	WILL	18	2	
PLOT SCALE : 100.0000' / 1" =	CHECKED :	REVISED :	CONTRACT NO. 60N71							
PLOT DATE : 1/14/2013	DATE :	REVISED :	ILLINOIS FED. AID PROJECT							
				SCALE: 1" = 50'		SHEET NO. OF SHEETS STA.		TO STA.		





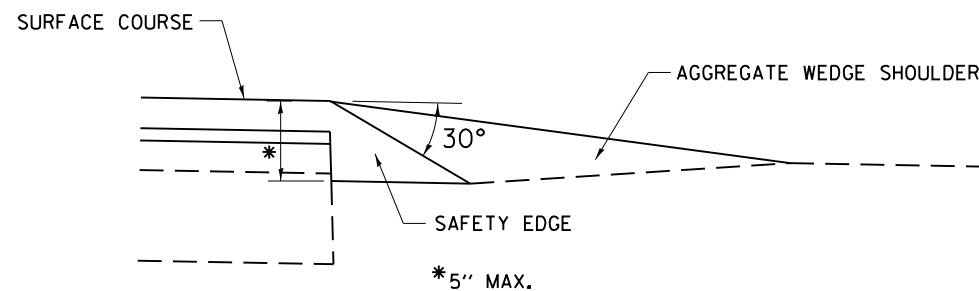
**MANHATTAN-MONEE ROAD  
EXISTING TYPICAL SECTION**

STA.18+94 TO STA.102+17 &  
STA.103+36 TO STA.235+08.18



**MANHATTAN-MONEE ROAD  
PROPOSED TYPICAL SECTION**

STA.18+94 TO STA.102+17 &  
STA.103+36 TO STA.235+08.18



**SAFETY EDGE DETAIL**

LEGEND

- ① EXISTING 9"- 7"- 9" P.C.C. PAVEMENT
- ② EXISTING HOT-MIX ASPHALT BASE COURSE WIDENING, 9"
- ③ EXISTING AGGREGATE SHOULDER
- ④ PROPOSED HOT IN-PLACE RECYCLING, 1"
- ⑤ PROPOSED HOT-MIX ASPHALT SURFACE COURSE, MIX "D" N70, 1 1/2"
- ⑥ PROPOSED HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70, 2 1/2"
- ⑦ PROPOSED AGGREGATE WEDGE SHOULDER, TYPE B
- ⑧ PROPOSED SAFETY EDGE
- ⑨ PROPOSED CLASS D PATCH, TYPE IV, 9"

\*CLASS D PATCHES WILL BE USED TO REPLACE THE OUTER 3'  
ON EACH SIDE ALONG THE LENGTH OF THE JOB.

**HOT-MIX ASPHALT MIXTURE REQUIREMENTS**

	MIXTURE USE	AIR VOIDS (%) @ N <sub>DES</sub>
ROADWAY	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70 (IL 9.5 mm)	4% @ 70 GYR
	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70	4% @ 70 GYR
PATCHES	CLASS D PATCHES (HMA BINDER IL-19 mm)	4% @ 70 GYR
	HMA REPLACEMENT OVER PATCHES, SURFACE COURSE	4% @ 70 GYR

THE UNIT WEIGHT USED TO CALCULATE ALL HOT-MIX ASPHALT SURFACE MIXTURE QUANTITIES IS 112 LBS/SY/IN.

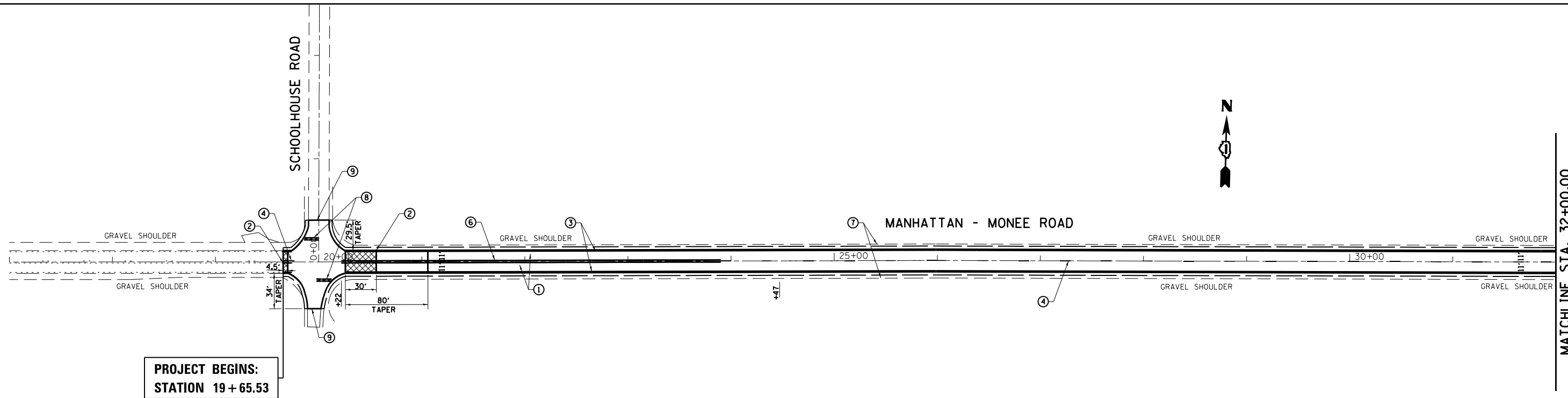
THE AC TYPE FOR POLYMERIZED HMA MIXTURES SHALL BE SBS/SBR PG 76 -22 AND FOR NON-POLYMERIZED HMA THE AC TYPE SHALL BE PG 64 -22 UNLESS MODIFIED BY DISTRICT ONE SPECIAL PROVISIONS.

FOR USE OF RECYCLED MATERIALS, SEE SPECIAL PROVISIONS

HMA REPLACEMENT OVER PATCHES ONLY APPLIES TO TYPE II AND TYPE III PATCHES. TYPE IV PATCHES WILL BE DONE AS FULL DEPTH.

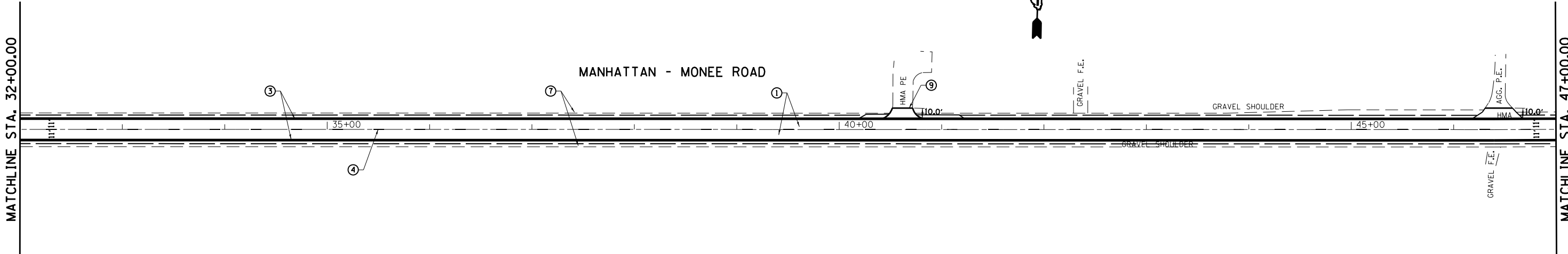
**NOTE:**  
**CLASS D PATCHES HAVE TO BE DONE BEFORE HOT-IN-PLACE OPERATIONS.**

FILE NAME =	USER NAME = pyzzenowskirb	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>MANHATTAN-MONEE ROAD (SCHOOLHOUSE RD. TO CENTER RD.) EXISTING &amp; PROPOSED TYPICAL SECTIONS</b>	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
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PLOT SCALE = 100.0000' / in.		CHECKED -	REVISED -			<b>CONTRACT NO. 60N71</b>					
PLOT DATE = 1/11/2013		DATE -	REVISED -			SCALE: 1" = 50'	SHEET NO.	OF	SHEETS	STA.	TO



**PROJECT BEGINS:  
STATION 19 + 65.53**

LEGEND	
①	PROPOSED HOT IN-PLACE RECYCLING, 1"
②	PROPOSED HMA SURFACE REMOVAL BUTT JOINT
③	PROPOSED THERMOPLASTIC PAVEMENT MARKING 4", EDGE LINE, WHITE (TYPICAL)
④	PROPOSED THERMOPLASTIC PAVEMENT MARKING 4", SKIP DASH, YELLOW (TYPICAL)
⑤	PROPOSED THERMOPLASTIC PAVEMENT MARKING 4", SOLID, YELLOW (TYPICAL)
⑥	PROPOSED THERMOPLASTIC PAVEMENT MARKING 4", DOUBLE, YELLOW (TYPICAL)
⑦	PROPOSED THERMOPLASTIC PAVEMENT MARKING 4", DOUBLE, YELLOW (TYPICAL)
⑧	PROPOSED THERMOPLASTIC PAVEMENT MARKING 4", DOUBLE, YELLOW (TYPICAL)
⑨	PROPOSED THERMOPLASTIC PAVEMENT MARKING 24", STOP BAR, WHITE (TYPICAL)
⑩	PROPOSED HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70, 2 1/2"
⑪	PROPOSED HMA SURFACE COURSE, MIX "D", N70, 1 1/2"
⑫	PROPOSED AGGREGATE WEDGE SHOULDER, TYPE B (TYPICAL)
⑬	PROPOSED THERMOPLASTIC PAVEMENT MARKING 4", SKIP DASH, YELLOW (TYPICAL)
⑭	PROPOSED THERMOPLASTIC PAVEMENT MARKING 4", SOLID, YELLOW (TYPICAL)
⑮	PROPOSED THERMOPLASTIC PAVEMENT MARKING 4", DOUBLE, YELLOW (TYPICAL)
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㉔	PROPOSED THERMOPLASTIC PAVEMENT MARKING 4", DOUBLE, YELLOW (TYPICAL)
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㊿	PROPOSED THERMOPLASTIC PAVEMENT MARKING 4", DOUBLE, YELLOW (TYPICAL)



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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

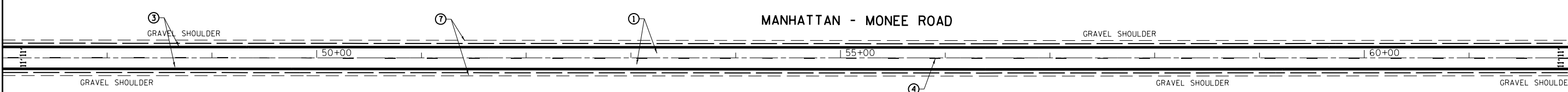
**MANHATTAN-MONEE ROAD (SCHOOLHOUSE RD. TO CENTER RD.)  
ROADWAY PLAN**

SCALE: 1" = 50'      SHEET      OF      SHEETS      STA. 17+00.00      TO      STA. 47+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
531	40X-RS-9	WILL	18	5
<b>CONTRACT NO. 60N71</b>				
ILLINOIS FED. AID PROJECT				

MATCHLINE STA. 47+00.00

MATCHLINE STA. 62+00.00

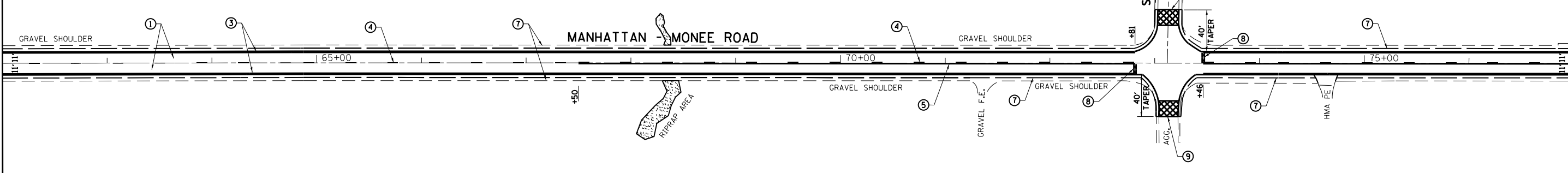


**LEGEND**

- ① PROPOSED HOT IN-PLACE RECYCLING, 1"
- ① PROPOSED HMA SURFACE COURSE, MIX "D", NTO, 1 1/2"
- ② PROPOSED HOT-MIX ASPHALT BINDER COURSE, IL-19.0, NTO, 2 1/2"
- ② PROPOSED HMA SURFACE REMOVAL BUTT JOINT
- ③ PROPOSED THERMOPLASTIC PAVEMENT MARKING 4", EDGE LINE, WHITE (TYPICAL)
- ④ PROPOSED THERMOPLASTIC PAVEMENT MARKING 4", SKIP DASH, YELLOW (TYPICAL)
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- ⑦ PROPOSED AGGREGATE WEDGE SHOULDER, TYPE B (TYPICAL)
- ⑧ PROPOSED THERMOPLASTIC PAVEMENT MARKING 24", STOP BAR, WHITE (TYPICAL)
- ⑨ LIMIT OF RESURFACING (TYPICAL)

MATCHLINE STA. 62+00.00

MATCHLINE STA. 77+00.00



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DEPARTMENT OF TRANSPORTATION**

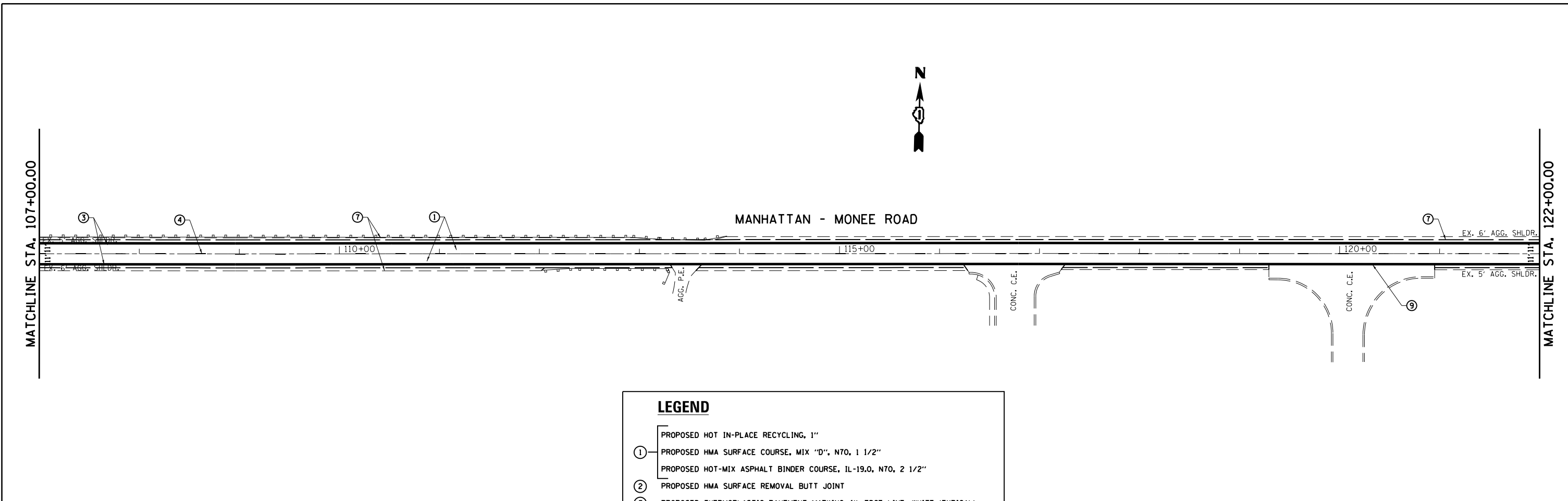
**MANHATTAN-MONEE ROAD (SCHOOLHOUSE RD. TO CENTER RD.)  
ROADWAY PLAN**

SCALE: 1" = 50'      SHEET      OF      SHEETS      STA. 47+00.00      TO      STA. 77+00.00

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<b>CONTRACT NO. 60N71</b>				

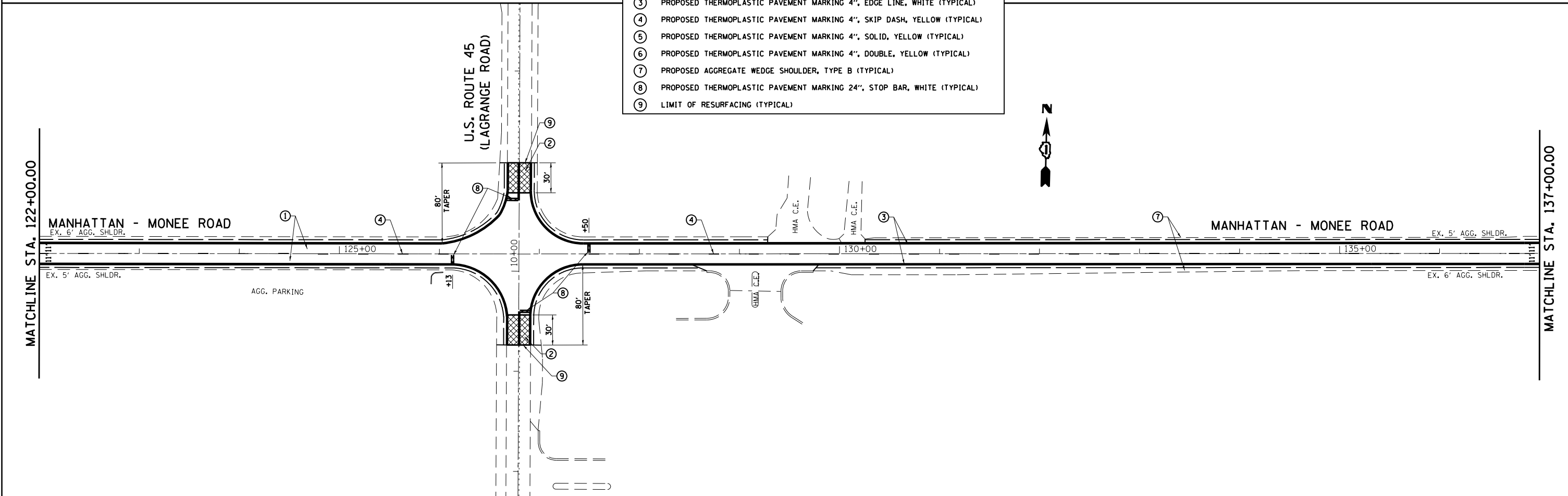
ILLINOIS FED. AID PROJECT





**LEGEND**

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- ② PROPOSED HMA SURFACE COURSE, MIX "D", N70, 1 1/2"
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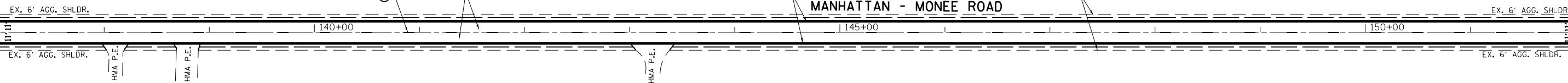


FILE NAME =	USER NAME = pyrzanowski	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>MANHATTAN-MONEE ROAD (SCHOOLHOUSE RD. TO CENTER RD.) ROADWAY PLAN</b>	SCALE: 1" = 50'	SHEET	OF	SHEETS	STA. 107+00.00	TO STA. 137+00.00	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
		DRAWN -	REVISED -			531	40X-RS-9	WILL	18	8	CONTRACT NO. 60N71			ILLINOIS FED. AID PROJECT			
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		DATE -	REVISED -														



MATCHLINE STA. 137+00.00

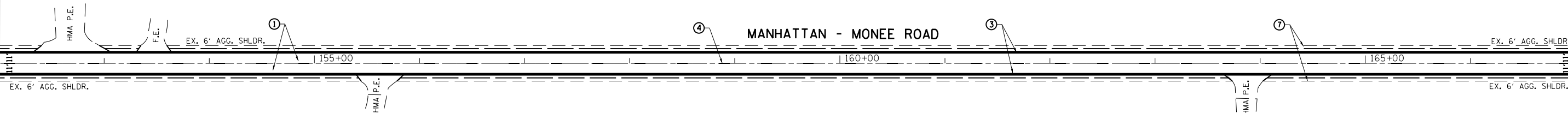
MATCHLINE STA. 152+00.00



LEGEND	
①	PROPOSED HOT IN-PLACE RECYCLING, 1"
①	PROPOSED HMA SURFACE COURSE, MIX "D", N70, 1 1/2"
	PROPOSED HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70, 2 1/2"
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MATCHLINE STA. 152+00.00

MATCHLINE STA. 167+00.00



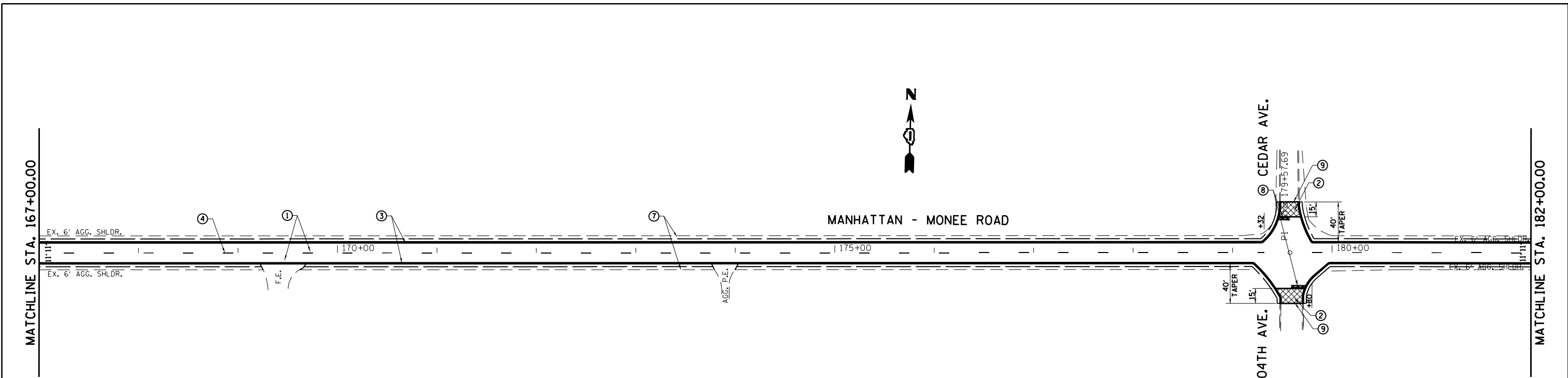
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	PLOT DATE = 1/11/2013	DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

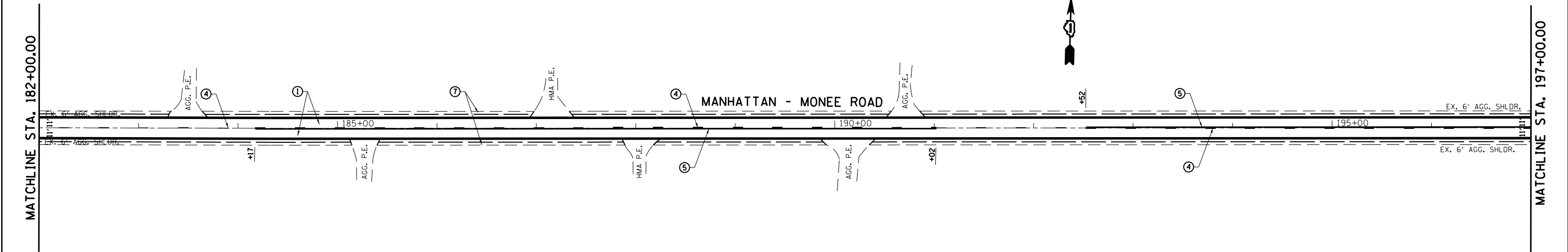
MANHATTAN-MONEE ROAD (SCHOOLHOUSE RD. TO CENTER RD.)  
ROADWAY PLAN

SCALE: 1" = 50' SHEET OF SHEETS STA. 137+00.00 TO STA. 167+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
531	40X-RS-9	WILL	18	9
CONTRACT NO. 60N71				
ILLINOIS FED. AID PROJECT				



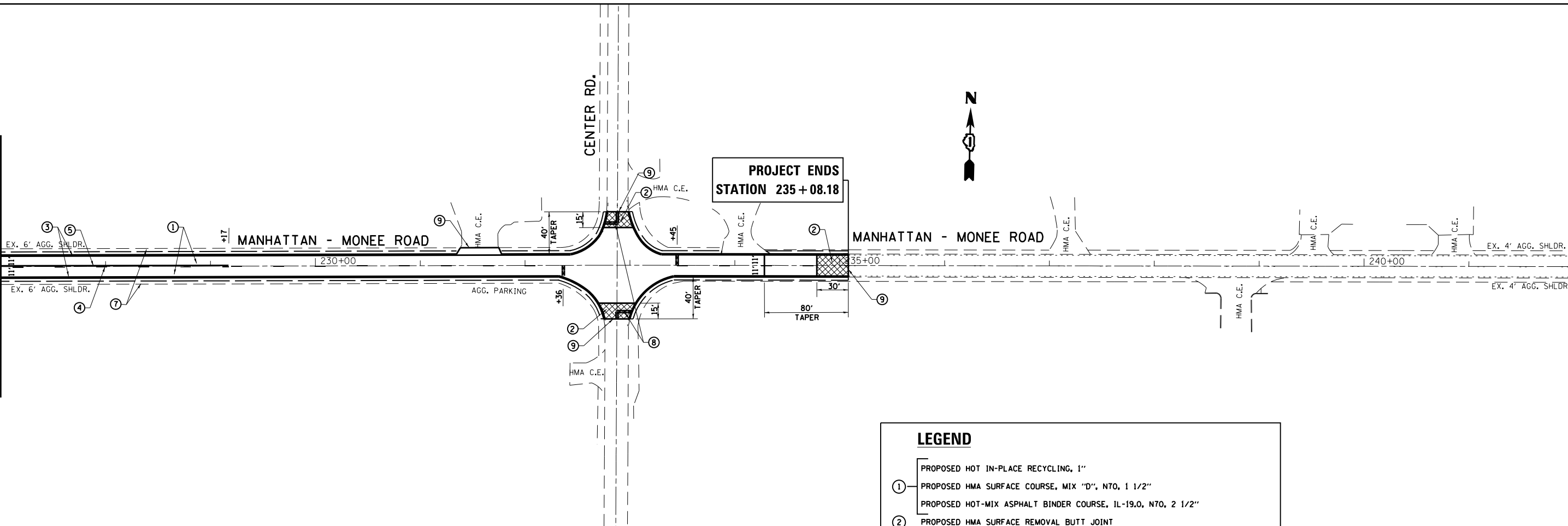
LEGEND	
①	PROPOSED HOT IN-PLACE RECYCLING, 1"
②	PROPOSED HMA SURFACE COURSE, MIX "D", N70, 1 1/2"
③	PROPOSED HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70, 2 1/2"
④	PROPOSED HMA SURFACE REMOVAL BUTT JOINT
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⑪	PROPOSED THERMOPLASTIC PAVEMENT MARKING 24", STOP BAR, WHITE (TYPICAL)
⑫	LIMIT OF RESURFACING (TYPICAL)



FILE NAME =	USER NAME = pyrzenowskirb	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>MANHATTAN-MONEE ROAD (SCHOOLHOUSE RD. TO CENTER RD.) ROADWAY PLAN</b>	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
ei:\pw\work\p\dot\pyrzenowskirb\d0286808\ND134111-shr-plan.dgn	PLOT SCALE = 100.0000' / in.	DRAWN -	REVISED -			531	40X-RS-9	WILL	18	10
PLOT DATE = 1/11/2013	DATE -	CHECKED -	REVISED -			<b>CONTRACT NO. 60N71</b>				
		DATE -	REVISED -			ILLINOIS FED. AID PROJECT				
					SCALE: 1" = 50'	SHEET	OF	SHEETS	STA. 167+00.00	TO STA. 197+00.00



MATCHLINE STA. 227+00.00



LEGEND	
①	PROPOSED HOT IN-PLACE RECYCLING, 1"
②	PROPOSED HMA SURFACE COURSE, MIX "D", N70, 1 1/2"
③	PROPOSED HOT-MIX ASPHALT BINDER COURSE, 1L-19.0, N70, 2 1/2"
④	PROPOSED HMA SURFACE REMOVAL BUTT JOINT
⑤	PROPOSED THERMOPLASTIC PAVEMENT MARKING 4", EDGE LINE, WHITE (TYPICAL)
⑥	PROPOSED THERMOPLASTIC PAVEMENT MARKING 4", SKIP DASH, YELLOW (TYPICAL)
⑦	PROPOSED THERMOPLASTIC PAVEMENT MARKING 4", SOLID, YELLOW (TYPICAL)
⑧	PROPOSED THERMOPLASTIC PAVEMENT MARKING 4", DOUBLE, YELLOW (TYPICAL)
⑨	PROPOSED THERMOPLASTIC PAVEMENT MARKING 24", STOP BAR, WHITE (TYPICAL)
⑩	PROPOSED AGGREGATE WEDGE SHOULDER, TYPE B (TYPICAL)
⑪	PROPOSED THERMOPLASTIC PAVEMENT MARKING 4", DOUBLE, YELLOW (TYPICAL)
⑫	PROPOSED THERMOPLASTIC PAVEMENT MARKING 4", SOLID, YELLOW (TYPICAL)
⑬	PROPOSED THERMOPLASTIC PAVEMENT MARKING 4", SKIP DASH, YELLOW (TYPICAL)
⑭	PROPOSED THERMOPLASTIC PAVEMENT MARKING 4", EDGE LINE, WHITE (TYPICAL)
⑮	PROPOSED HMA SURFACE REMOVAL BUTT JOINT
⑯	PROPOSED HMA SURFACE COURSE, MIX "D", N70, 1 1/2"
⑰	PROPOSED HOT-MIX ASPHALT BINDER COURSE, 1L-19.0, N70, 2 1/2"
⑱	PROPOSED HOT IN-PLACE RECYCLING, 1"
⑲	LIMIT OF RESURFACING (TYPICAL)

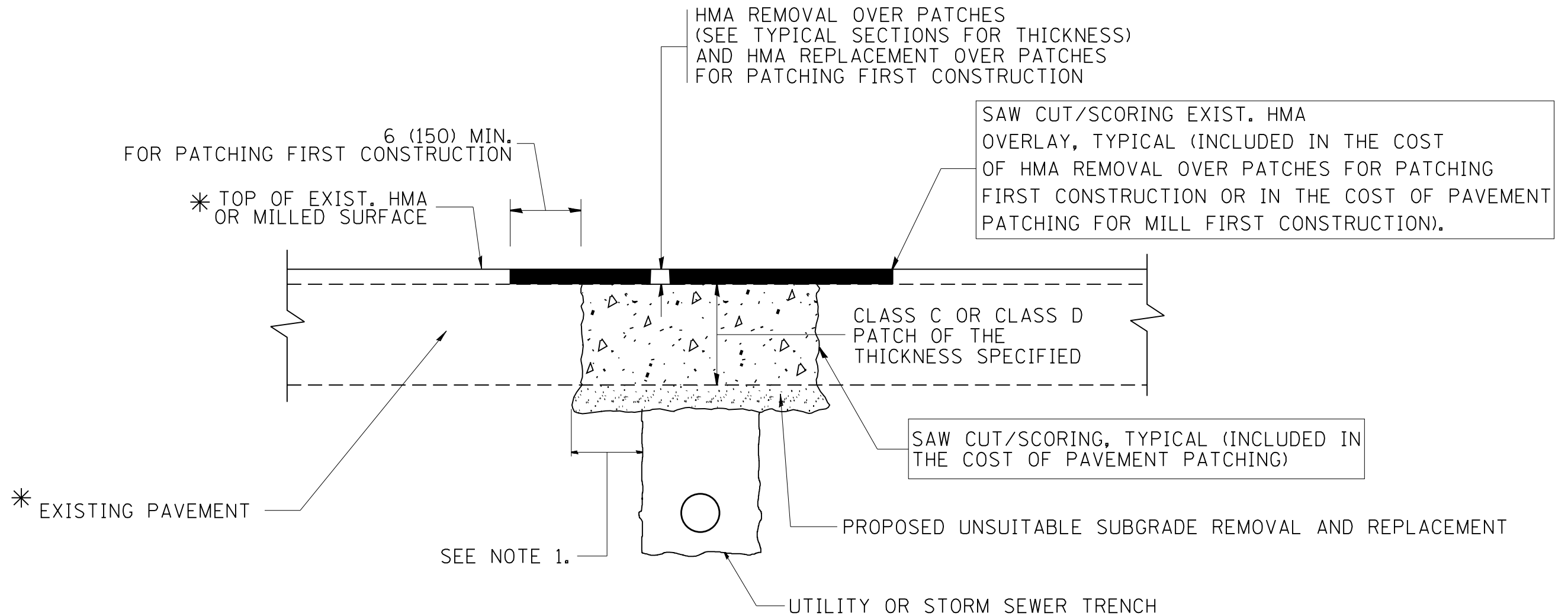
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PLOT SCALE = 100.0000' / in.		CHECKED -	REVISED -
PLOT DATE = 1/11/2013		DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

MANHATTAN-MONEE ROAD (SCHOOLHOUSE RD. TO CENTER RD.)  
ROADWAY PLAN

SCALE: 1" = 50' SHEET OF SHEETS STA. 227+00.00 TO STA. 242+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
531	40X-RS-9	WILL	18	12
CONTRACT NO. 60N71				
ILLINOIS FED. AID PROJECT				



\* SEE TYPICAL SECTIONS FOR THICKNESS AND MATERIALS

**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)**

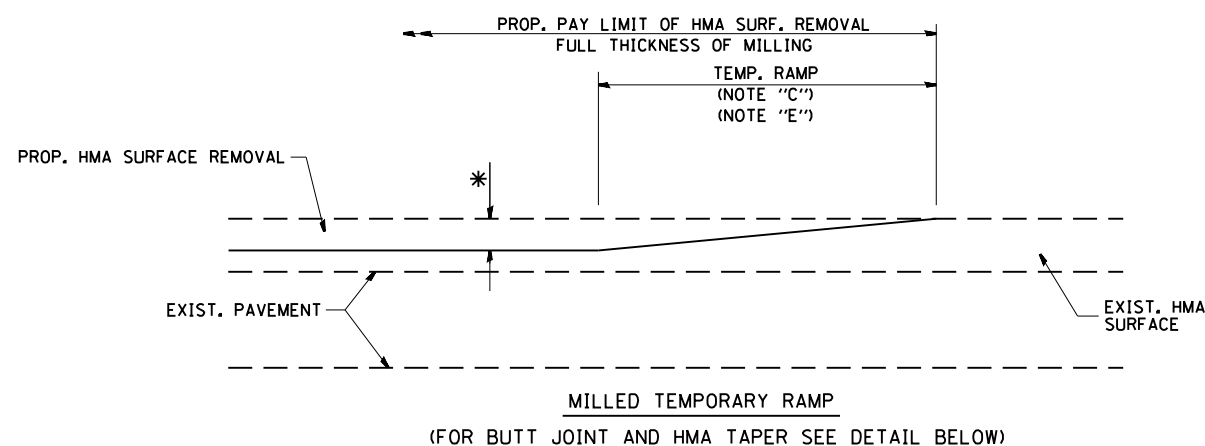
1. REMOVE THE EXISTING HMA MATERIAL OVER THE AREA TO BE PATCHED.
2. REMOVE AND REPLACE WITH CLASS C OR D PATCH.
3. REPLACE HMA MATERIAL OVER THE AREA TO BE PATCHED.

**SEQUENCE OF CONSTRUCTION (MILLING FIRST)**

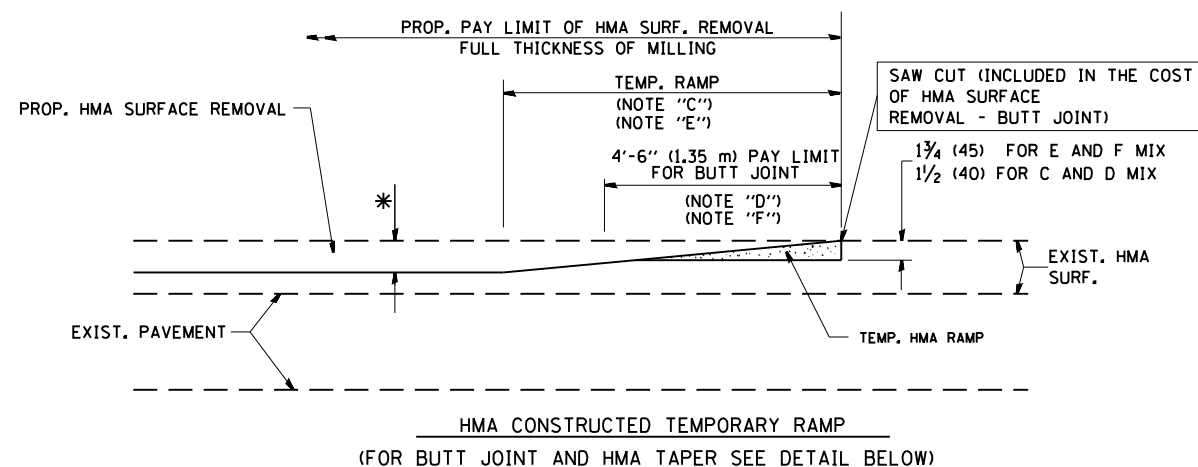
1. MILL HMA FIRST IF THERE IS AT LEAST 4 1/2 INCHES OR MORE OF HMA MATERIAL ON TOP OF THE EXISTING PAVEMENT OR IF THE PAVEMENT IS FULL DEPTH HMA. A MINIMUM OF 2 INCHES OF HMA MATERIAL SHALL BE IN PLACE AFTER MILLING.
2. REMOVE AND REPLACE WITH FULL DEPTH CLASS D PATCHES TO TOP OF MILLED SURFACE.

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

FILE NAME =	USER NAME = pyrzenowskirb	DESIGNED - R. SHAH	REVISED - A. ABBAS 04-27-98	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>PAVEMENT PATCHING FOR HMA SURFACED PAVEMENT</b>			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
et:\pw\work\p\dot\pyrzenowskirb\d0286808\DistStd.dgn		DRAWN -	REVISED - R. BORO 01-01-07					531	40X-RS-9	WILL	18	13
	PLOT SCALE = 100.0000' / 1in.	CHECKED -	REVISED - R. BORO 09-04-07		BD400-04 (BD-22)			CONTRACT NO. 60N71				
	PLOT DATE = 1/11/2013	DATE - 10-25-94	REVISED - K. ENG 10-27-08		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA. TO STA.	FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

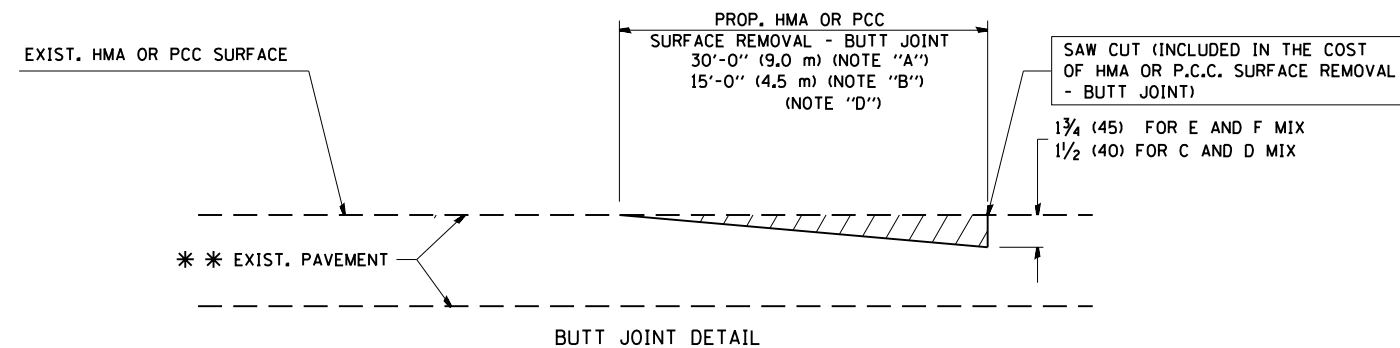


**OPTION 1**

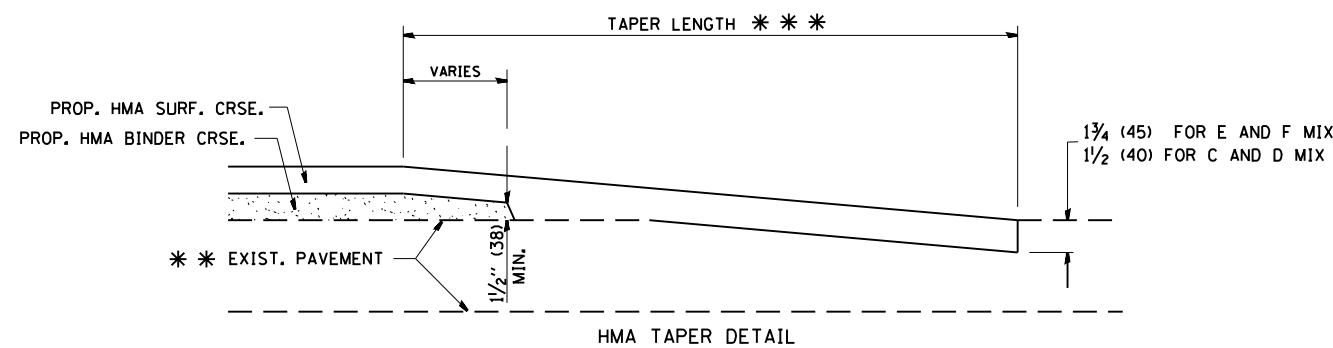


**OPTION 2**

**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.

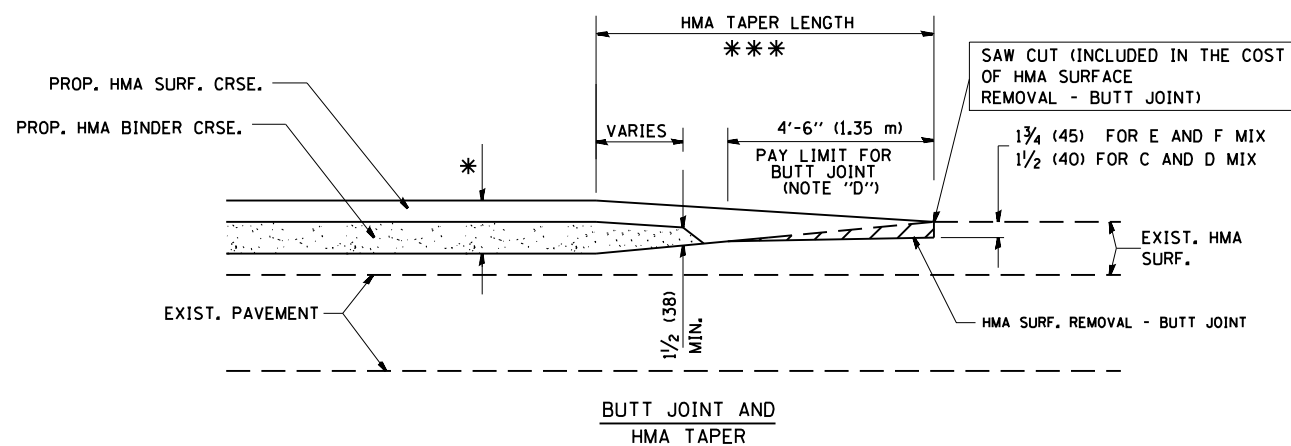
**NOTES**

- 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.
- \* \* \* 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:**

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".

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



**TYPICAL BUTT JOINT AND HMA TAPER FOR MILLING AND RESURFACING**

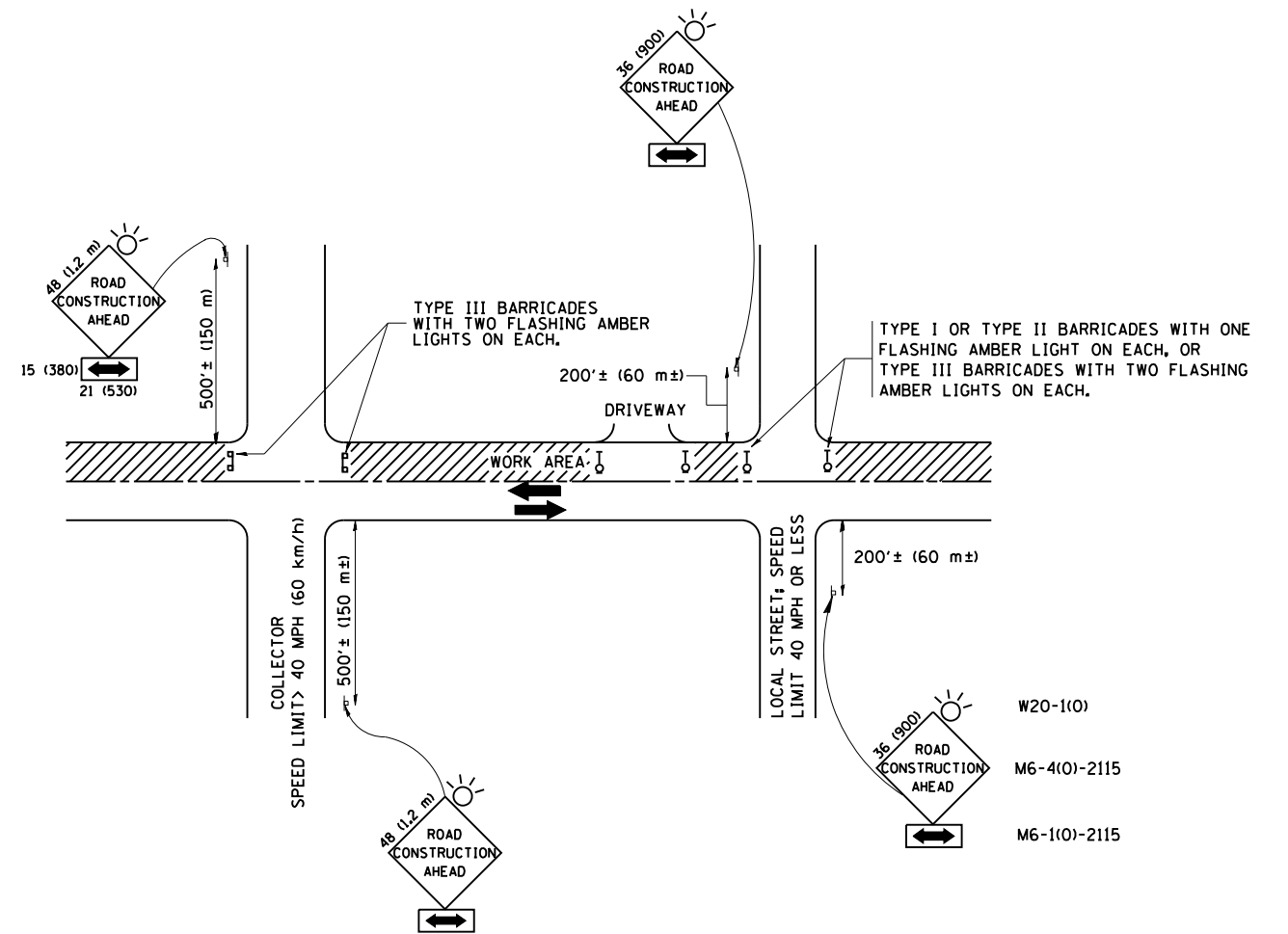
FILE NAME =	USER NAME = pyzzenowskirb	DESIGNED - M. DE YONG	REVISED - R. SHAH 10-25-94
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	PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED - M. GOMEZ 04-06-01
	PLOT DATE = 1/11/2013	DATE - 06-13-90	REVISED - R. BORO 01-01-07

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**BUTT JOINT AND  
HMA TAPER DETAILS**

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
531	40X-RS-9	WILL	18	14
BD400-05 BD32		CONTRACT NO. 60N71		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



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

**NOTES:**

- A. FOR NO LANE RESTRICTION ON THE SIDE ROAD OR DRIVEWAYS**
- 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:
    - 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.
    - 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.
  - SIDE ROAD WITH A SPEED LIMIT GREATER THAN 40 MPH (60 km/h) AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
    - 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.
    - 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.
  - WHEN THE SIDE ROAD LIES BETWEEN THE BEGINNING OF THE MAINLINE SIGNING AND THE WORK ZONE, A SINGLE HEADED ARROW (M6-1) SHALL BE USED IN LIEU OF THE DOUBLE HEADED ARROW (M6-4).
- 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.

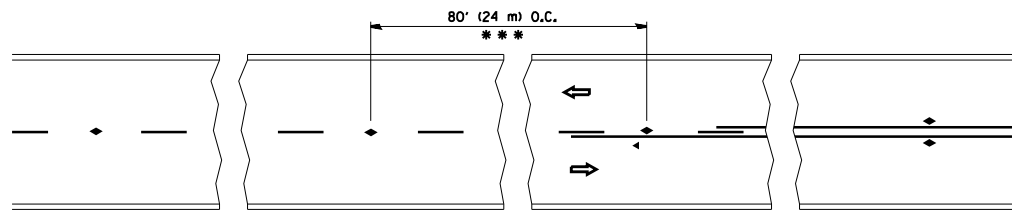
FILE NAME =	USER NAME = pyrzanowski	DESIGNED - LHA	REVISED - J. OBERLE 10-18-95
et:\pwork\pwork\pyrzanowski\0286808\DistStd.dgn		DRAWN -	REVISED - A. HOUSEH 03-06-96
	PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED - A. HOUSEH 10-15-96
	PLOT DATE = 1/11/2013	DATE - 06-89	REVISED - T. RAMMACH 01-06-00

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

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

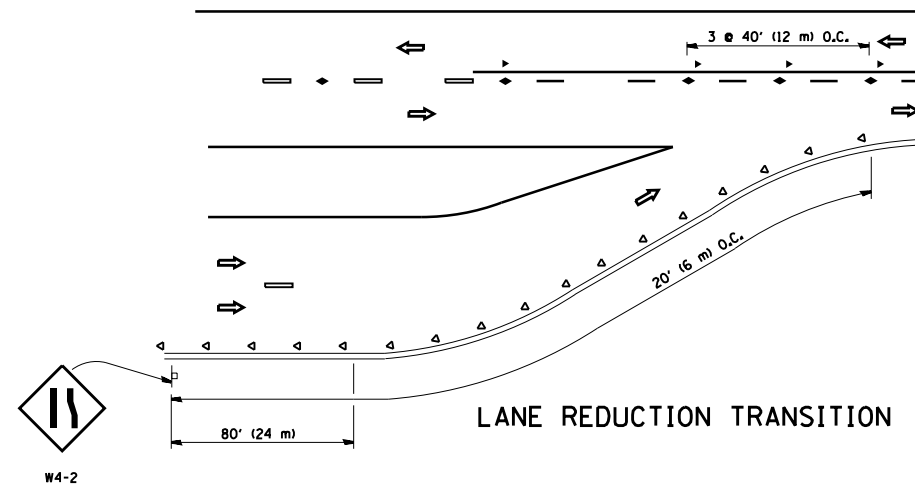
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
531	40X-RS-9	WILL	18	15
TC-10			CONTRACT NO. 60N71	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

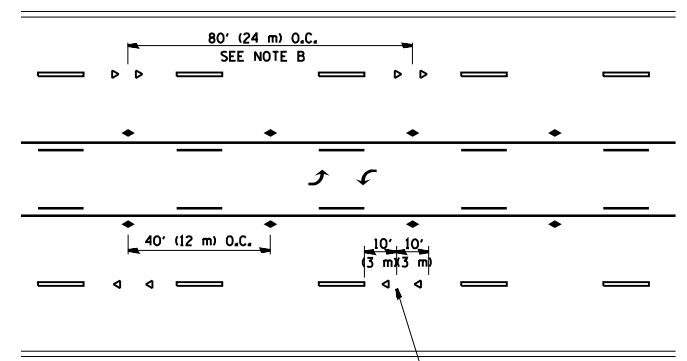


\*\*\* REDUCE TO 40' (12 m) O.C. ON CURVES WITH POSTED OR ADVISORY SPEED 45 M.P.H. (70 km/h) OR LESS.

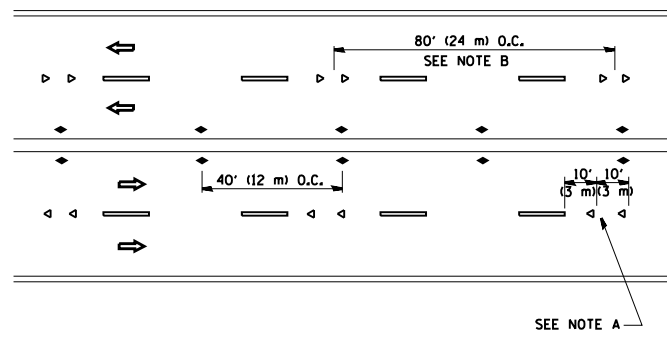
TWO-LANE/TWO-WAY



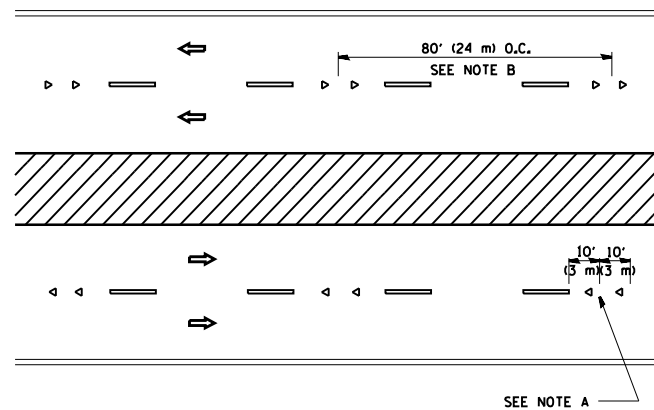
LANE REDUCTION TRANSITION



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.

SYMBOLS

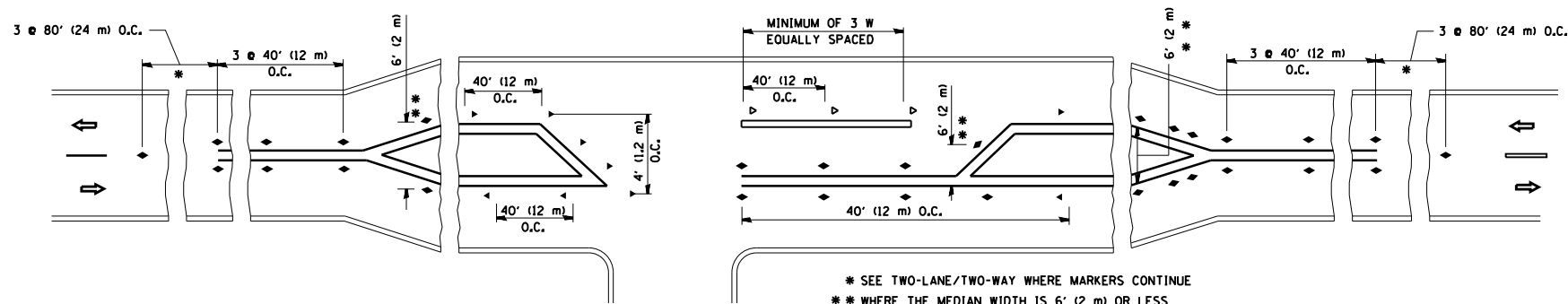
- YELLOW STRIPE
- WHITE STRIPE
- ◀ ONE-WAY AMBER MARKER
- ◀ ONE-WAY CRYSTAL MARKER (W/O)
- ◆ TWO-WAY AMBER MARKER

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.



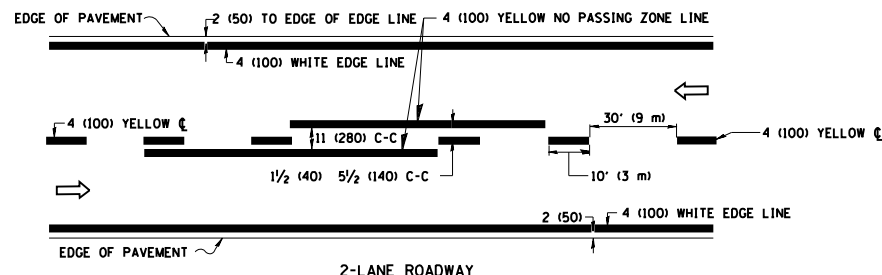
\* SEE TWO-LANE/TWO-WAY WHERE MARKERS CONTINUE  
 \*\* WHERE THE MEDIAN WIDTH IS 6' (2 m) OR LESS USE TWO-WAY MARKERS.

LEFT TURN

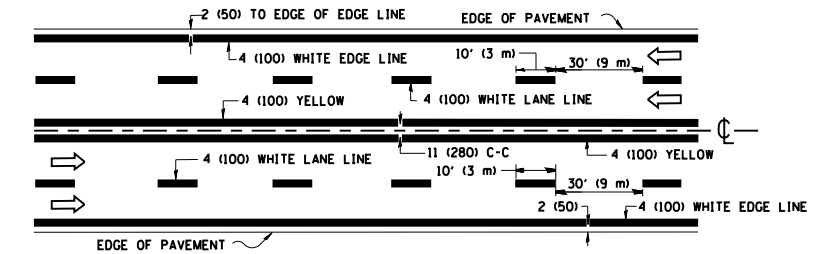
All dimensions are in inches (millimeters) unless otherwise shown.

FILE NAME =	USER NAME = pyrzanowski	DESIGNED -	REVISED - T. RAMMACHER 09-19-94	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>TYPICAL APPLICATIONS</b>			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
et:\pw\work\p\dot\pyrzanowski\bd0286808\DistStd.dgn		DRAWN -	REVISED - T. RAMMACHER 03-12-99		<b>RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT)</b>			531	40X-RS-9	WILL	18	16
	PLOT SCALE = 100.0000' / 1in.	CHECKED -	REVISED - T. RAMMACHER 01-06-00		SCALE: NONE	SHEET NO. 1	OF 1	SHEETS	STA.	TO STA.	<b>CONTRACT NO. 60N71</b>	
	PLOT DATE = 1/11/2013	DATE -	REVISED - C. JUCIUS 09-09-09		FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT							

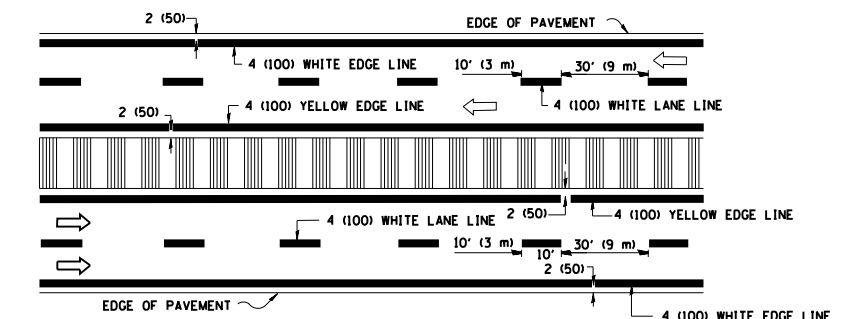




2-LANE ROADWAY



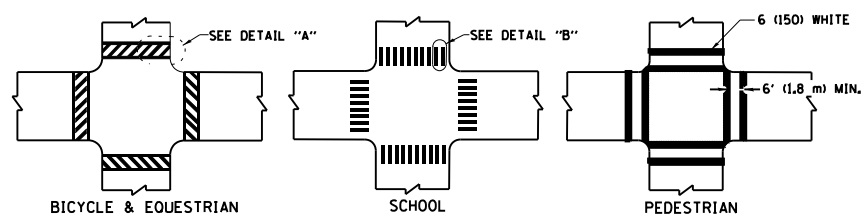
MULTI-LANE UNDIVIDED



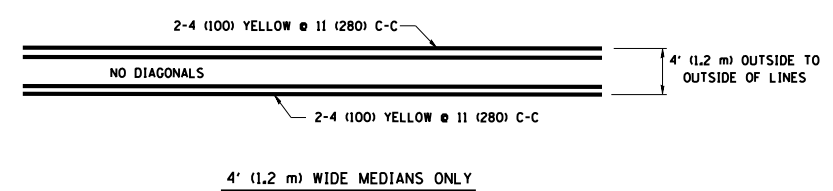
MULTI-LANE DIVIDED WITH MOUNTABLE MEDIAN

NOTE: MEDIANS WITH BARRIER CURB DO NOT REQUIRE AN EDGE LINE

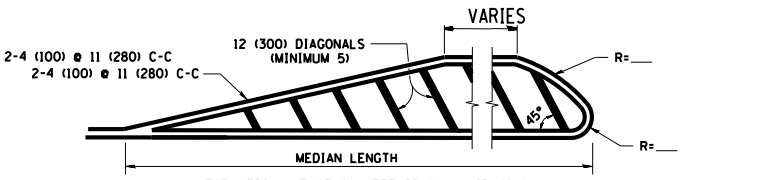
TYPICAL LANE AND EDGE LINE MARKING



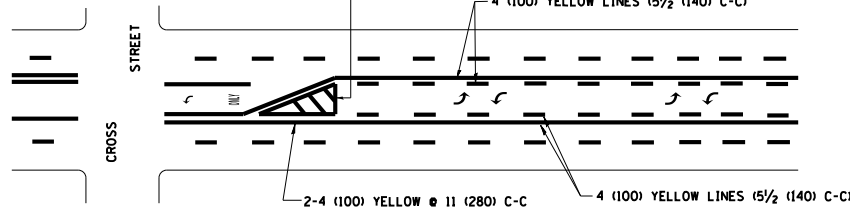
TYPICAL CROSSWALK MARKING



4' (1.2 m) WIDE MEDIANS ONLY

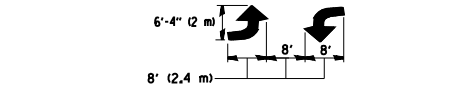


MEDIANS OVER 4' (1.2 m) WIDE



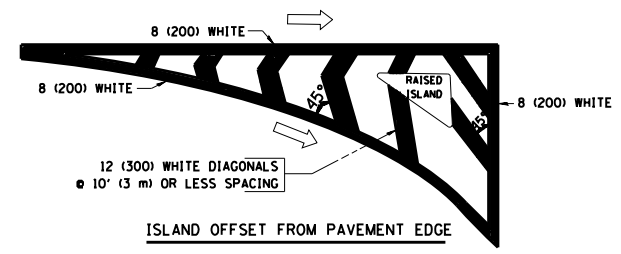
MEDIAN WITH TWO-WAY LEFT TURN LANE

TYPICAL PAINTED MEDIAN MARKING

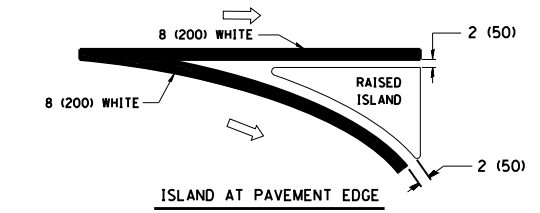


TYPICAL LEFT (OR RIGHT) TURN LANE

TYPICAL TURN LANE MARKING



ISLAND OFFSET FROM PAVEMENT EDGE



ISLAND AT PAVEMENT EDGE

TYPICAL ISLAND MARKING

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 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; 5/2 (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" 15' (4.5 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> ) EACH
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.

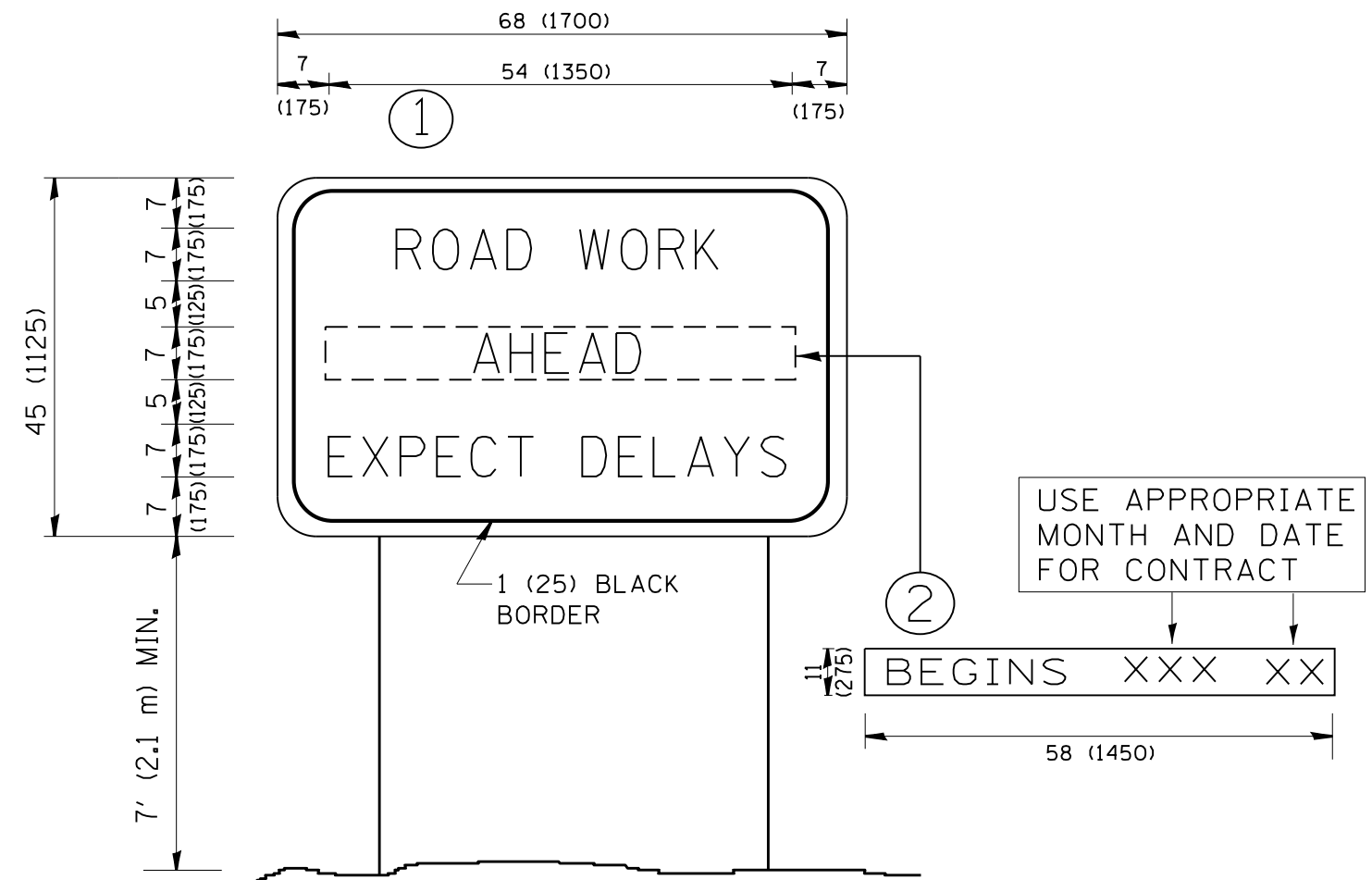
All dimensions are in inches (millimeters) unless otherwise shown.

FILE NAME =	USER NAME = pyrzanowski	DESIGNED - EVERS	REVISED - T. RAMMACHER 10-27-94
et:\pw\work\p\dot\pyrzanowski\bd0286808\DistStd.dgn		DRAWN -	REVISED - C. JUCIUS 09-09-09
	PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -
	PLOT DATE = 1/11/2013	DATE - 03-19-90	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE			
TYPICAL PAVEMENT MARKINGS			
SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
531	40X-RS-9	WILL	18	17
TC-13		CONTRACT NO. 60N71		
FED. ROAD DIST. NO. 1 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.

FILE NAME =	USER NAME = pyrzanowski	DESIGNED -	REVISED - R. MIRS 09-15-97
et:\pw\work\p1dot\pyrzanowski\bd0286808\DistStd.dgn		DRAWN -	REVISED - R. MIRS 12-11-97
	PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED - T. RAMMACHER 02-02-99
	PLOT DATE = 1/11/2013	DATE -	REVISED - C. JUCIUS 01-31-07

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

ARTERIAL ROAD  
INFORMATION SIGN

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
531	40X-RS-9	WILL	18	18
TC-22		CONTRACT NO. 60N71		
FED. ROAD DIST. NO. 1   ILLINOIS FED. AID PROJECT				