

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS

**PROPOSED HIGHWAY PLANS**

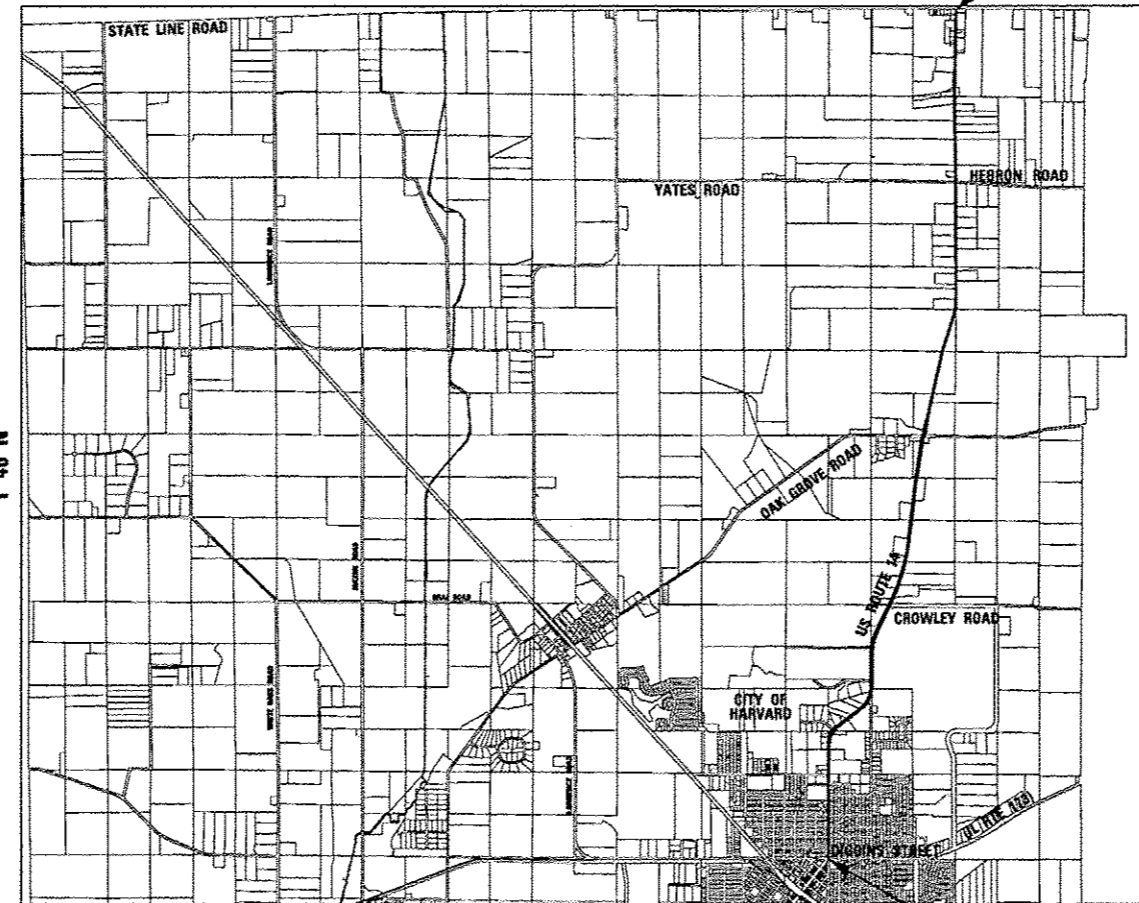
F.A.P 66 (US ROUTE 14)  
SECTION 21-RS-3

DIGGINS STREET (IL ROUTE 173) TO STATE LINE ROAD  
RESURFACING (3P)

MCHENRY COUNTY  
C-91-297-11

R 5 E

PROJECT ENDS  
STA 375 + 79

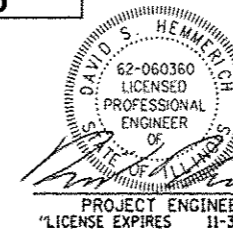


SCALE: NTS

CHEMUNG TOWNSHIP

GROSS LENGTH OF IMPROVEMENT = 27,729 LF OR 5.252 MILES  
NET LENGTH OF IMPROVEMENT = 27,729 LF OR 5.252 MILES

PROJECT BEGINS  
STA 98 + 50



F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
66	21-RS-3	MCHENRY	32	1
FED. ROAD DIST. NO. 1	ILLINOIS		FED AID PROJECT	
D-91-297-11			* 32 41 = 33	
CONTRACT NO. 60N27				



LOCATION OF SECTION INDICATED THIS: [Symbol]

FOR INDEX OF SHEETS, SEE SHEET NO. 2

IMPROVEMENT LOCATED WITHIN  
THE CITY OF HARVARD AND  
UNINCORPORATED CHEMUNG TOWNSHIP

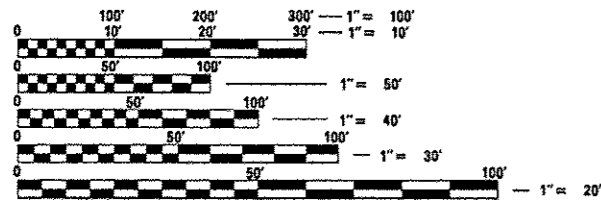
**TRAFFIC DATA**

US ROUTE 14

2011 ADT = 6,700

SPEED LIMIT = 55 MPH

(30-35 MPH WITHIN  
THE CITY OF HARVARD)



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.



CONTACT JULIE AT 811 OR 800-892-0123  
WITH THE FOLLOWING:  
COUNTY = MCHENRY  
CITY-TOWNSHIP = HARVARD - CHEMUNG  
SEC. & 1/4 SEC. NO. = 01, 12, 13, 24, 25, 26, 35  
48 HOURS (2 working days) BEFORE YOU DIG

DISTRICT ONE -

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

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

CONTRACT NO. 60N27

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS

SUBMITTED February 6, 2013  
John F. [Signature] DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER  
May 10, 2013  
John D. [Signature] ENGINEER OF DESIGN AND ENVIRONMENT  
May 10, 2013  
Omer Osmen, PE, Jr. DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

PRINTED BY THE AUTHORITY  
OF THE STATE OF ILLINOIS

2013 BY BAXTER & WOODMAN, INC.  
 STATE OF ILLINOIS - PROFESSIONAL ENGINEER  
 LICENSE NO. 014-00021 - EXPIRES 4/30/2013  
 11/25/2013 11:59 PM  
 C:\cristell\level\DOT\60N27-140-Design\WP-19 US 14 Diggins to State Line RD\CAD-SURVEY\DRAWINGS\60N27-140-1.DWG

**INDEX OF SHEETS**

SHEET NO.	DESCRIPTION
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2	INDEX OF SHEETS, HIGHWAY STANDARDS, GENERAL NOTES AND COMMITMENTS
3 - 3 A.	SUMMARY OF QUANTITIES
4 - 6	EXISTING AND PROPOSED TYPICAL SECTIONS
7 - 17	ROADWAY AND PAVEMENT MARKING PLANS
18	DISTRICT ONE - DETECTOR LOOP REPLACEMENT
19	DISTRICT ONE STANDARD TRAFFIC SIGNAL DESIGN DETAILS (SHEET 6 OF 6)
20	EXISTING TRAFFIC SIGNAL REMOVAL PLAN: US ROUTE 14 AT MOTOROLA ENTRANCE
21	EXISTING TRAFFIC SIGNAL REMOVAL PLAN: US ROUTE 14 AT CROWLEY ROAD
22	INTERCONNECTION REMOVAL PLAN: US ROUTE 14 FROM MOTOROLA ENTRANCE TO CROWLEY ROAD
23	(BD-08) DETAILS FOR FRAMES AND LIDS ADJUSTMENT WITH MILLING
24	(BD-22) PAVEMENT PATCHING FOR HMA SURFACED PAVEMENT
25	(BD-24) CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT
26	(BD-32) BUTT JOINT AND HMA TAPER DETAILS
27	(TC-10) TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS
28	(TC-11) TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT)
29	(TC-13) TYPICAL PAVEMENT MARKINGS
30	(TC-16) PAVEMENT MARKING LETTERS AND SYMBOLS FOR TRAFFIC STAGING
31	(TC-22) ARTERIAL ROAD INFORMATION SIGNING
32	(TS-07) DETECTOR LOOP INSTALLATION DETAILS FOR ROADWAY RESURFACING

**HIGHWAY STANDARDS**

STANDARD NO.	DESCRIPTION
000001-06	STANDARD SYMBOLS, ABBREVIATIONS, AND PATTERNS
442201-03	CLASS C AND D PATCHES
606001-04	CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER
701006-04	OFF-ROD OPERATIONS, 2L, 2W, 15' (4.5m) TO 24" (600mm) FROM PAVEMENT EDGE
701011-03	OFF-ROAD 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 > 45 MPH
701311-03	LANE CLOSURE, 2L, 2W MOVING OPERATIONS - DAY ONLY
701336-06	LANE CLOSURE, 2L, 2W, WORK AREAS IN SERIES, FOR SPEEDS > 45 MPH
701502-05	URBAN LANE CLOSURE, 2L, 2W, WITH BIDIRECTIONAL LEFT TURN LANE
701701-08	URBAN LANE CLOSURE, MULTILANE INTERSECTION
701901-02	TRAFFIC CONTROL DEVICES
720001-01	SIGN PANEL MOUNTING DETAILS
720006-03	SIGN PANEL ERECTION DETAILS
720011-01	METAL POSTS FOR SIGNS, MARKERS AND DELINEATORS
729001-01	APPLICATIONS OF TYPES A & B METAL POSTS (FOR SIGNS AND MARKERS)
886001-01	DETECTOR LOOP INSTALLATIONS
886006-01	TYPICAL LAYOUTS FOR DETECTION LOOPS

**GENERAL NOTES**

- 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.
- 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.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL DIMENSIONS AND CONDITIONS EXISTING IN THE FIELD PRIOR TO CONSTRUCTION AND ORDERING MATERIALS.
- THE CONTRACTOR SHALL BE REQUIRED TO PROVIDE ACCESS TO ABUTTING PROPERTY AT ALL TIMES DURING THE CONSTRUCTION OF THIS PROJECT.
- 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.
- REMOVAL OF THE TRAFFIC SIGNAL SHALL BE IN ACCORDANCE WITH MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) SECTION 4B.02, PARAGRAPH 05. STOP SIGNS SHALL BE INSTALLED ON THE SIDE STREETS PER PLAN; CHANGEABLE MESSAGE SIGNS SHALL BE PROVIDED (SEE NOTE 17 BELOW); THE SIGNAL SHALL BE DEACTIVATED (SEE NOTE 16 BELOW) AND SIGNAL HEADS BAGGED; NO EQUIPMENT SHALL BE REMOVED FOR A PERIOD OF 90 DAYS; AFTER 90 DAYS AND A TRAFFIC STUDY INDICATES THE SIGNAL IS NO LONGER NEEDED, THE SIGNAL EQUIPMENT MAY BE REMOVED.
- THE SIGNAL MAY NOT BE DEACTIVATED WITHOUT PRIOR APPROVAL FROM IDOT.
- CHANGEABLE MESSAGE SIGNS SHALL BE PROVIDED ON US ROUTE 14 AND ON CROWLEY ROAD AT LEAST ONE (1) WEEK PRIOR TO SIGNAL DEACTIVATION AND AT LEAST ONE (1) WEEK AFTER. LIKEWISE, THE CHANGEABLE MESSAGE SIGNS SHALL BE PROVIDED AT LEAST ONE (1) WEEK BEFORE AND ONE (1) WEEK AFTER FINAL SIGNAL REMOVAL. THIS WORK WILL BE PAID FOR AS CHANGEABLE MESSAGE SIGN.
- THE TRAFFIC STUDY REQUIRED PER THE MUTCD WILL BE PREPARED AND APPROVED BY THE IDOT (BUREAU OF TRAFFIC) AND MUST BE APPROVED PRIOR TO REMOVING THE SIGNAL.

**GENERAL NOTES**

- 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" (REFERRED 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".
- 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.
- THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON STATE PROPERTY WITHOUT THE WRITTEN PERMISSION OF THE DEPARTMENT.
- THE CONTRACTOR SHALL COORDINATE ALL CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES AND THE CITY OF HARVARD.
- 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 SPECIFIED.
- 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).
- 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.
- THE CONTRACTOR SHALL CONTACT THE DISTRICT ONE TRAFFIC CONTROL SUPERVISOR AT (847) 705-4470 A MINIMUM OF 72 HOURS IN ADVANCE OF BEGINNING OF WORK.
- ALL PAVEMENT PATCHING LOCATIONS WILL BE DETERMINED IN THE FIELD BY THE ENGINEER.

**COMMITMENTS**

THERE ARE NO COMMITMENTS FOR THIS PROJECT.

CONTRACT NO. 2011-11-01 DATE: 12-13-10  
 DESIGNER: DSH  
 DRAWN: KAR  
 CHECKED: LDH  
 DATE: 12-13-10  
 REVISED: 7-20-11 IDOT REVIEW  
 REVISED: 5-29-12 UPDATE  
 REVISED: 2-4-13 PER TRAFFIC  
 FILE: 100153-W019-GEN-NOTE.sht



DESIGNED - DSH	REVISED - 7-20-11 IDOT REVIEW
DRAWN - KAR	REVISED - 5-29-12 UPDATE
CHECKED - LDH	REVISED - 2-4-13 PER TRAFFIC
DATE - 12-13-10	FILE 100153-W019-GEN-NOTE.sht

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

US ROUTE 14  
DIGGINS STREET (IL ROUTE 173) TO STATE LINE ROAD  
INDEX OF SHEETS, HIGHWAY STANDARDS, GENERAL NOTES AND COMMITMENTS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
66	21-RS-3	McHENRY	32	2
C-91-297-11			CONTRACT NO. 60N27	
FED. ROAD DIST. NO. 1 [ILLINOIS] FED AID PROJECT				

SCALE: NONE STA. TO STA.

SUMMARY OF QUANTITIES			URBAN	CONSTRUCTION TYPE CODE		
				100% STATE	66.7% STATE 33.3% HARVARD	100% CITY OF HARVARD
CODE NO.	ITEM DESCRIPTION	UNIT	TOTAL QUANTITY	0005 QUANTITY	0021 QUANTITY	0021 QUANTITY
21101615	TOPSOIL FURNISH AND PLACE, 4"	SQ YD	42	42		
25200110	SODDING, SALT TOLERANT	SQ YD	42	42		
25200200	SUPPLEMENTAL WATERING	UNIT	3	3		
40600200	BITUMINOUS MATERIALS (PRIME COAT)	TON	84	84		
40600300	AGGREGATE (PRIME COAT)	TON	665	665		
40600400	MIXTURE FOR CRACKS, JOINTS, AND FLANGEWAYS	TON	23	23		
40600827	POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50	TON	4,607	4,607		
40600895	CONSTRUCTING TEST STRIP	EACH	2	2		
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	645	645		
40603340	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70	TON	9,634	9,634		
42001300	PROTECTIVE COAT	SQ YD	58	58		
44000158	HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/4"	SQ YD	110,698	110,698		
44201803	CLASS D PATCHES, TYPE II, 13 INCH	SQ YD	1,301	1,286	10	5
44201807	CLASS D PATCHES, TYPE III, 13 INCH	SQ YD	240	240		
44201809	CLASS D PATCHES, TYPE IV, 13 INCH	SQ YD	107	107		

\* INDICATES SPECIALTY ITEM

SUMMARY OF QUANTITIES			URBAN	CONSTRUCTION TYPE CODE		
				100% STATE	66.7% STATE 33.3% HARVARD	100% CITY OF HARVARD
CODE NO.	ITEM DESCRIPTION	UNIT	TOTAL QUANTITY	0005 QUANTITY	0021 QUANTITY	0021 QUANTITY
48102100	AGGREGATE WEDGE SHOULDER, TYPE B	TON	2,780	2,780		
60300105	FRAMES AND GRATES TO BE ADJUSTED	EACH	2	2		
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	6	6		
67100100	MOBILIZATION	L SUM	1	1		
70100460	TRAFFIC CONTROL AND PROTECTION, STANDARD 701306	L SUM	1	1		
70100600	TRAFFIC CONTROL AND PROTECTION, STANDARD 701336	L SUM	1	1		
70102622	TRAFFIC CONTROL AND PROTECTION, STANDARD 701502	L SUM	1	1		
70102635	TRAFFIC CONTROL AND PROTECTION, STANDARD 701701	L SUM	1	1		
70106800	CHANGEABLE MESSAGE SIGN	CAL MO	5		3	2
70300100	SHORT-TERM PAVEMENT MARKING	FOOT	20,797	20,797		
70300210	TEMPORARY PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	2,080	2,080		
70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	203,110	203,110		
70300240	TEMPORARY PAVEMENT MARKING - LINE 6"	FOOT	6,534	6,534		
70300250	TEMPORARY PAVEMENT MARKING - LINE 8"	FOOT	252	252		
70300260	TEMPORARY PAVEMENT MARKING - LINE 12"	FOOT	6,876	6,876		

\* INDICATES SPECIALTY ITEM

DESIGNED BY: DSH  
 DRAWN BY: KAR  
 CHECKED BY: LDH  
 DATE: 12-13-10  
 REVISIONS:  
 1 - 7-20-11 IDOT REVIEW  
 2 - 5-29-12 UPDATE  
 3 - 2-4-13 PER TRAFFIC  
 FILE: 100153-W019-S00.SHP



DESIGNED - DSH  
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STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

US ROUTE 14  
DIGGINS STREET (IL ROUTE 173) TO STATE LINE ROAD  
SUMMARY OF QUANTITIES

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
66	21-RS-3	MCHENRY	32	3
C-91-297-11			CONTRACT NO. 60N27	
FED. ROAD DIST. NO. 1 ILLINOIS FED AID PROJECT				

SCALE: NONE STA. TO STA.

SUMMARY OF QUANTITIES			URBAN TOTAL QUANTITY	CONSTRUCTION TYPE CODE		
CODE NO.	ITEM DESCRIPTION	UNIT		100% STATE 0005 QUANTITY	66.7% STATE 33.3% HARVARD 0021 QUANTITY	100% CITY OF HARVARD 0021 QUANTITY
70300280	TEMPORARY PAVEMENT MARKING - LINE 24"	FOOT	792	792		
70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SQ FT	2,311	2,311		
72000100	SIGN PANEL - TYPE 1	SQ FT	26		13	13
72900200	METAL POST - TYPE B	FOOT	50		25	25
78000100	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	1,040	1,040		
78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	101,555	101,555		
78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	3,267	3,267		
78000500	THERMOPLASTIC PAVEMENT MARKING - LINE 8"	FOOT	126	126		
78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	3,438	3,438		
78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	396	396		
78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	1,000	1,000		
78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	1,000	1,000		
88600600	DETECTOR LOOP REPLACEMENT	FOOT	471	471		
89500120	REMOVE EXISTING SERVICE INSTALLATION	EACH	2		1	1
89502300	REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	10,491	4,130	3,597	2,764

\* INDICATES SPECIALTY ITEM

SUMMARY OF QUANTITIES			URBAN TOTAL QUANTITY	CONSTRUCTION TYPE CODE		
CODE NO.	ITEM DESCRIPTION	UNIT		100% STATE 0005 QUANTITY	66.7% STATE 33.3% HARVARD 0021 QUANTITY	100% CITY OF HARVARD 0021 QUANTITY
89502375	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	2		1	1
89502380	REMOVE EXISTING HANDHOLE	EACH	18	3	9	6
89502382	REMOVE EXISTING DOUBLE HANDHOLE	EACH	2		1	1
89502385	REMOVE EXISTING CONCRETE FOUNDATION	EACH	14		8	6
Z0004562	COMBINATION CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT	FOOT	250	250		
Z0018500	DRAINAGE STRUCTURES TO BE CLEANED	EACH	50	50		
Z0030850	TEMPORARY INFORMATION SIGNING	SQ FT	103	103		
X2020110	GRADING AND SHAPING SHOULDERS	UNIT	495	495		
X5537800	STORM SEWERS TO BE CLEANED 12"	FOOT	3,688	3,688		
X8030310	FRAMES AND LIDS TO BE ADJUSTED (SPECIAL)	EACH	30	30		
X8140215	HEAVY-DUTY HANDHOLE TO BE ADJUSTED	EACH	1	1		
020076604	TRAINEES - TRAINING PROGRAM GRADUATE	HOUR	500	500		

\* INDICATES SPECIALTY ITEM

1/12 00042

2011 BY BAXTER & WOODMAN, INC. ... LICENSE NO. 24-000001-139825 6/23/2011 ... FILE: 100153-W019-500.sht



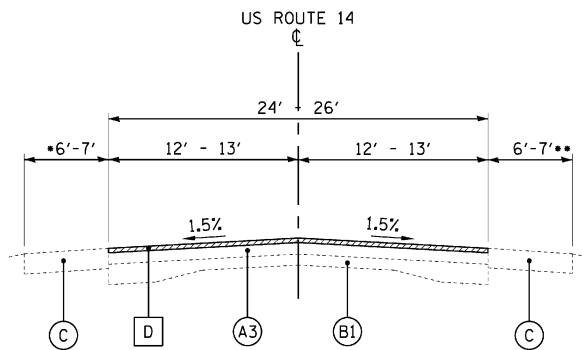
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 REVISED  
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 FILE: 100153-W019-500.sht

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

US ROUTE 14  
DIGGINS STREET (IL ROUTE 173) TO STATE LINE ROAD  
SUMMARY OF QUANTITIES

SCALE: NONE STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
66	21-RS-3	McHENRY	32	3A
C-91-297-11			CONTRACT NO. 60N27	
FED. ROAD DIST. NO. 1 [ILLINOIS] FED AID PROJECT				

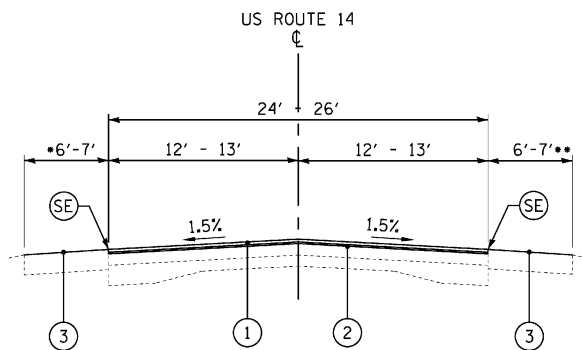


- 7' PAVED SHLD STA 211+65 TO STA 213+62 LT
- 7' PAVED SHLD STA 224+21 TO STA 229+49 LT
- 7' & VARIES PAVED SHLD STA 231+00 TO STA 233+83 LT
- 7' PAVED SHLD STA 210+94 TO STA 223+11 RT
- 7' PAVED SHLD STA 230+42 TO STA 232+33 RT

**EXISTING TYPICAL SECTION**

**US ROUTE 14**

STA 195+88 TO STA 233+83  
 STA 247+46 TO STA 344+28  
 STA 355+32 TO STA 364+50



- 7' PAVED SHLD STA 211+65 TO STA 213+62 LT
- 7' PAVED SHLD STA 224+21 TO STA 229+49 LT
- 7' & VARIES PAVED SHLD STA 231+00 TO STA 233+83 LT
- 7' PAVED SHLD STA 210+94 TO STA 223+11 RT
- 7' PAVED SHLD STA 230+42 TO STA 232+33 RT

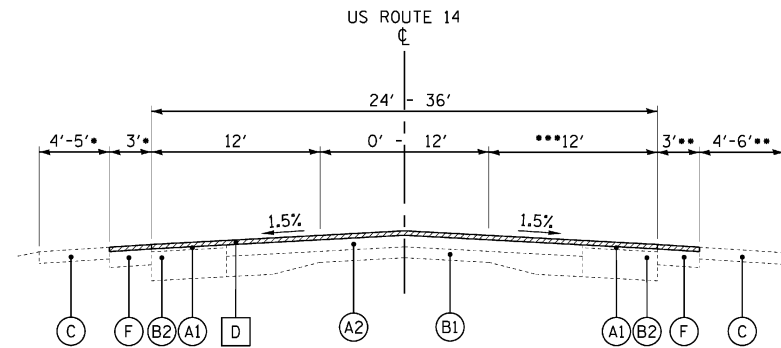
**PROPOSED TYPICAL SECTION**

**US ROUTE 14**

STA 195+88 TO STA 233+83  
 STA 247+46 TO STA 344+28  
 STA 355+32 TO STA 364+50

**LEGEND**

- (A1) EXISTING HMA SURFACE, 3"±
- (A2) EXISTING HMA SURFACE, 10 1/2"±
- (A3) EXISTING HMA SURFACE, 8"±
- (A4) EXISTING HMA SURFACE, 9"±
- (B1) EXISTING PCC BASE, 9" - 6" - 9"
- (B2) EXISTING HMA BASE, 10"±
- (B3) EXISTING HMA BASE, 11"±
- (C) EXISTING AGGREGATE SHOULDER, 6"±
- (D) HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/4"
- (E) EXISTING COMBINATION CONCRETE CURB AND GUTTER
- (F) EXISTING PAVED SHOULDERS
- (G) EXISTING PCC SIDEWALK
- ▨ ITEM TO BE REMOVED
- ① HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70 (IL-9.5mm) - 1 1/2"
- ② POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50 - 3/4"
- ③ GRADING AND SHAPING SHOULDERS AND AGGREGATE WEDGE SHOULDER, TYPE B
- (SE) SAFETY EDGE (SEE DETAIL SHEET 5) - REQUIRED ON ALL LOCATIONS WITH LESS THAN 3' OF PAVED SHOULDER

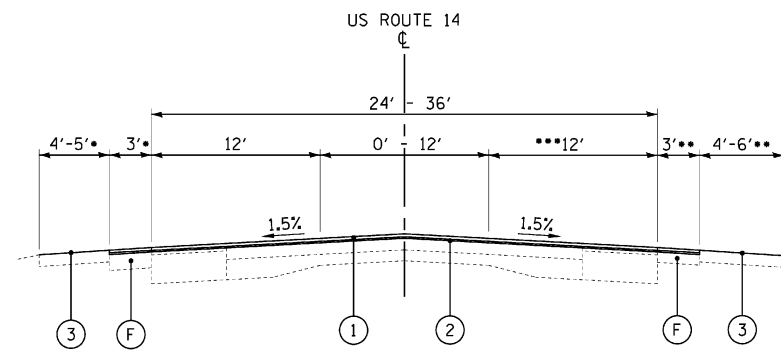


- 9' - 10' PAVED SHLD STA 156+41 TO STA 159+44 LT
- 0' PAVED SHLD STA 168+50 TO STA 182+97 LT
- 7' PAVED SHLD STA 187+18 TO STA 193+12 LT
- 7.5' PAVED / 3' AGG STA 155+55 TO STA 158+88 RT
- 0' PAVED SHLD STA 168+50 TO STA 182+97 RT & STA 187+18 TO STA 195+88 RT
- VARIES 12' - 21' STA 182+97 TO STA 183+78

**EXISTING TYPICAL SECTION**

**US ROUTE 14**

STA 128+29 TO STA 161+56  
 STA 168+50 TO STA 183+78  
 STA 187+18 TO STA 195+88



- 9' - 10' PAVED SHLD STA 156+41 TO STA 159+44 LT
- 0' PAVED SHLD STA 168+50 TO STA 182+97 LT
- 7' PAVED SHLD STA 187+18 TO STA 193+12 LT
- 7.5' PAVED / 3' AGG STA 155+55 TO STA 158+88 RT
- 0' PAVED SHLD STA 168+50 TO STA 182+97 RT & STA 187+18 TO STA 195+88 RT
- VARIES 12' - 21' STA 182+97 TO STA 183+78

**PROPOSED TYPICAL SECTION**

**US ROUTE 14**

STA 128+29 TO STA 161+56  
 STA 168+50 TO STA 183+78  
 STA 187+18 TO STA 195+88

NOTE:  
 THE CONTRACTOR SHALL MILL FIRST BEFORE PATCHING.

HOT-MIX ASPHALT MIXTURE REQUIREMENTS	
MIXTURE TYPE	AIR VOIDS Ndes
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.
CLASS D PATCHES (HMA BINDER IL-19 mm)	4% @ 70 GYR.

• PAY FOR PERFORMANCE APPLIES TO HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70 (IL 9.5mm)

MIXTURE NOTES:

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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 PROJECT: ILLINOIS ROUTE 173 TO STATE LINE ROAD  
 SHEET NO.: 66  
 DATE: 12/13/10  
 DRAWN BY: KAR  
 CHECKED BY: LDH  
 DESIGNED BY: DSH  
 FILE: 100153-W019-TYPSEC-1.sht



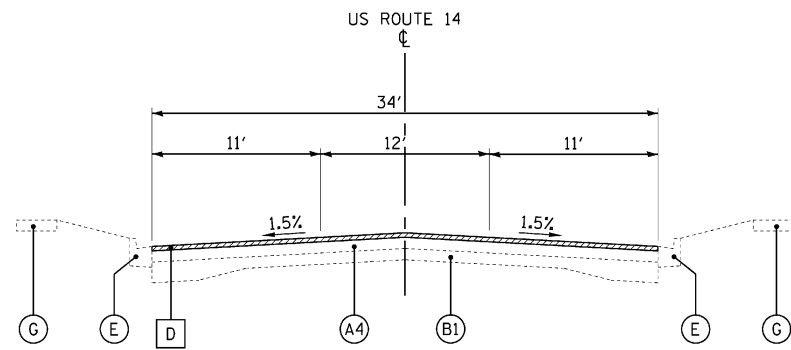
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CHECKED - LDH	REVISED - 5-29-12 UPDATE
DATE - 12-13-10	FILE: 100153-W019-TYPSEC-1.sht

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

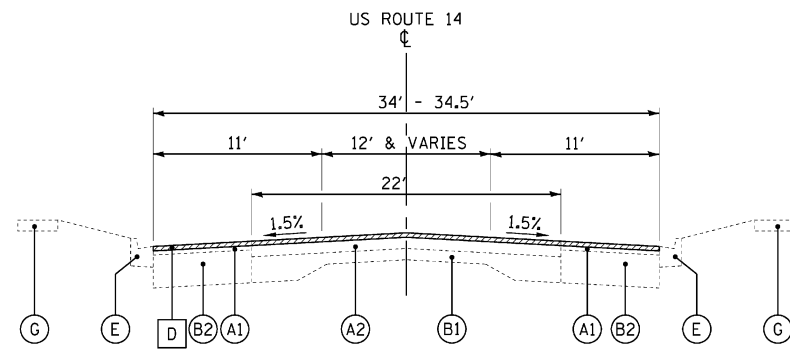
**US ROUTE 14  
 DIGGINS STREET (IL ROUTE 173) TO STATE LINE ROAD  
 TYPICAL SECTIONS**

SCALE: NONE STA. TO STA.

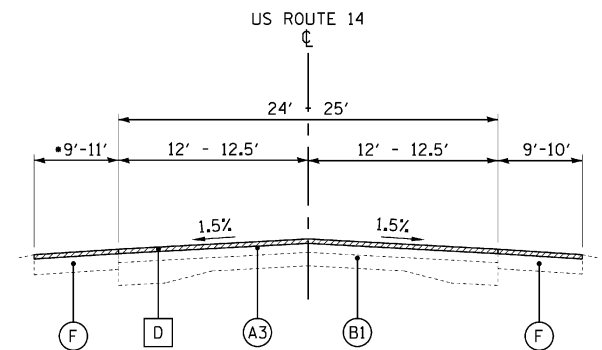
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
66	21-RS-3	McHENRY	32	4
C-91-297-11		CONTRACT NO. 60N27		
FED. ROAD DIST. NO. 1		ILLINOIS FED AID PROJECT		



**EXISTING TYPICAL SECTION**  
**US ROUTE 14**  
STA 98+50 TO STA 112+00

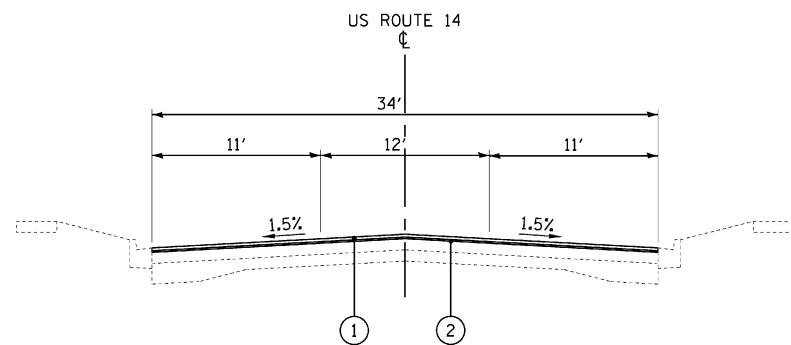


**EXISTING TYPICAL SECTION**  
**US ROUTE 14**  
STA 112+00 TO STA 128+29

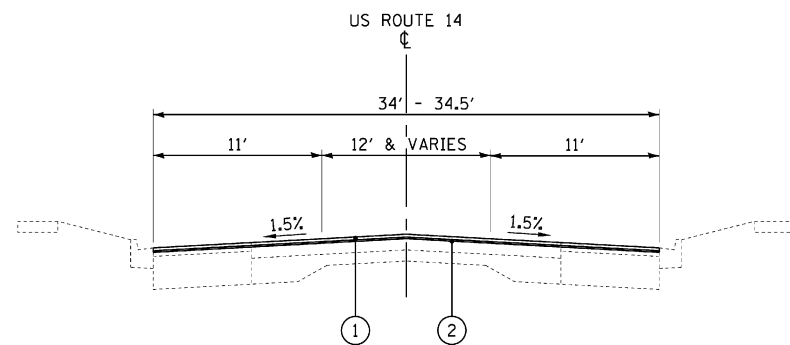


• 4' PAVED SHLD  
STA 348+81 TO STA 350+74 LT

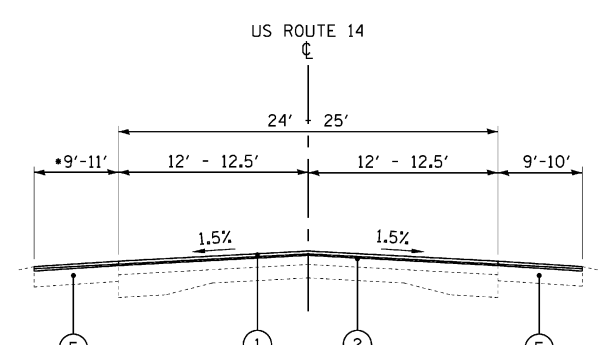
**EXISTING TYPICAL SECTION**  
**US ROUTE 14**  
STA 344+28 TO STA 355+32  
STA 364+50 TO STA 375+06



**PROPOSED TYPICAL SECTION**  
**US ROUTE 14**  
STA 98+50 TO STA 112+00



**PROPOSED TYPICAL SECTION**  
**US ROUTE 14**  
STA 112+00 TO STA 128+29

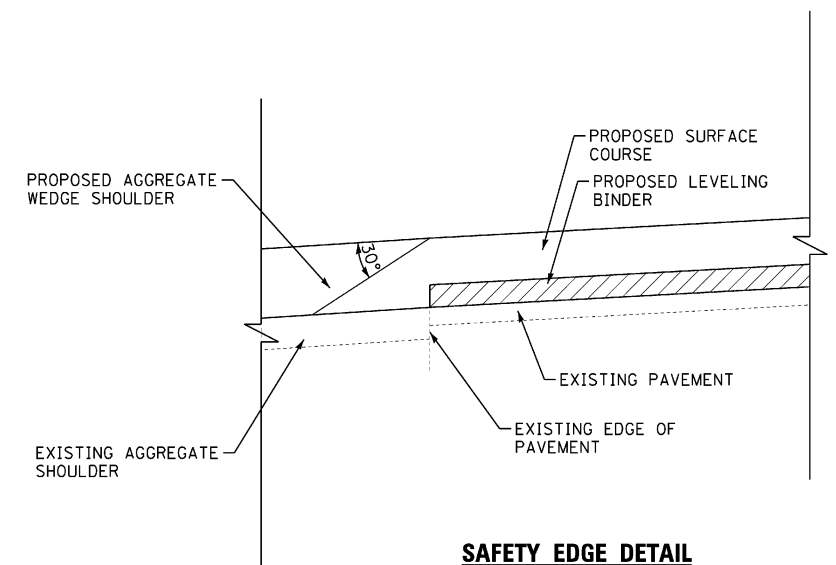


• 4' PAVED SHLD  
STA 348+81 TO STA 350+74 LT

**PROPOSED TYPICAL SECTION**  
**US ROUTE 14**  
STA 344+28 TO STA 355+32  
STA 364+50 TO STA 375+06

**LEGEND**

- (A1) EXISTING HMA SURFACE, 3"±
- (A2) EXISTING HMA SURFACE, 10 1/2"±
- (A3) EXISTING HMA SURFACE, 8"±
- (A4) EXISTING HMA SURFACE, 9"±
- (B1) EXISTING PCC BASE, 9" - 6" - 9"
- (B2) EXISTING HMA BASE, 10"±
- (B3) EXISTING HMA BASE, 11"±
- (C) EXISTING AGGREGATE SHOULDER, 6"±
- [D] HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/4"
- (E) EXISTING COMBINATION CONCRETE CURB AND GUTTER
- (F) EXISTING PAVED SHOULDERS
- (G) EXISTING PCC SIDEWALK
- [Hatched] ITEM TO BE REMOVED
- (1) HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70 (IL-9.5mm) - 1 1/2"
- (2) POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50 - 3/4"
- (3) GRADING AND SHAPING SHOULDERS AND AGGREGATE WEDGE SHOULDER, TYPE B
- (SE) SAFETY EDGE (SEE DETAIL SHEET 5) - REQUIRED ON ALL LOCATIONS WITH LESS THAN 3' OF PAVED SHOULDER



**SAFETY EDGE DETAIL**

(APPLIES TO LOCATIONS WITH LESS THAN 3' OF PAVED SHOULDER)

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DESIGNED - DSH	REVISED - 6-6-11 IDOT REVIEW
DRAWN - KAR	REVISED - 7-20-11 IDOT REVIEW
CHECKED - LDH	REVISED -
DATE - 12-13-10	FILE:100153-W019-TYPSEC-1.sh+

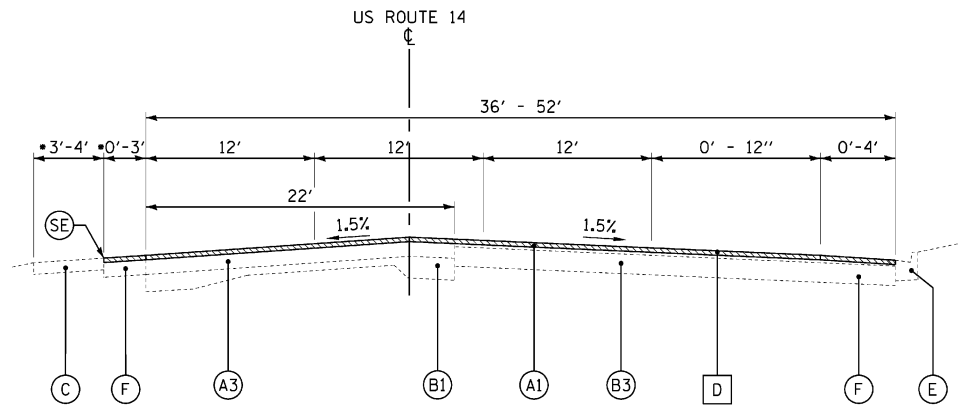
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**US ROUTE 14**  
**DIGGINS STREET (IL ROUTE 173) TO STATE LINE ROAD**  
**TYPICAL SECTIONS**

SCALE: NONE

STA. TO STA.

F.A.P. RTE. 66	SECTION 21-RS-3	COUNTY McHENRY	TOTAL SHEETS 32	SHEET NO. 5
C-91-297-11		CONTRACT NO. 60N27		
FED. ROAD DIST. NO. 1 ILLINOIS FED AID PROJECT				

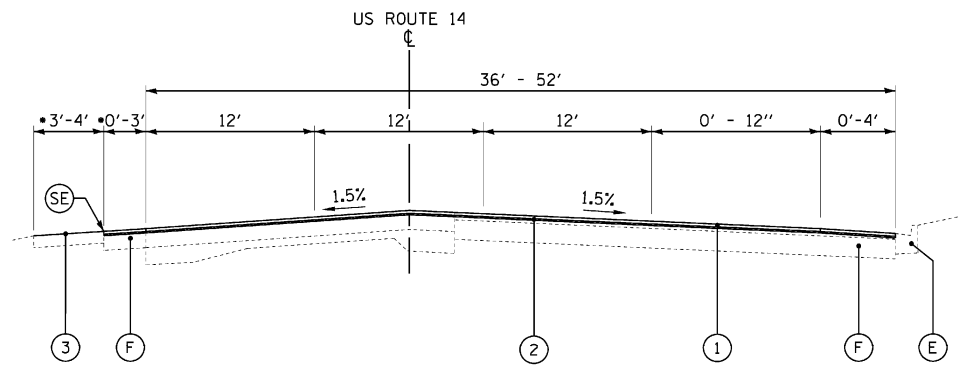


• 7.5' PAVED SHLD & 0' AGG SHLD STA 184+17 TO STA 187+18 LT

**EXISTING TYPICAL SECTION**

**US ROUTE 14**

STA 161+56 TO STA 168+50  
STA 183+78 TO STA 187+18



• 7.5' PAVED SHLD & 0' AGG SHLD STA 184+17 TO STA 187+18 LT

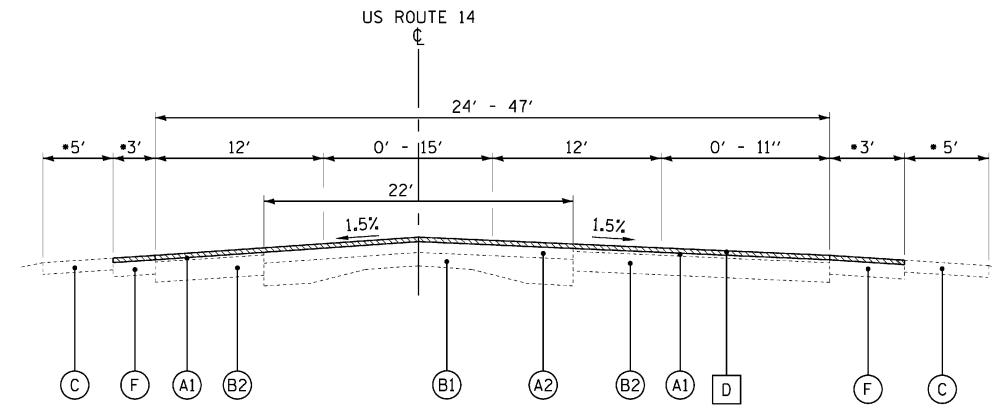
**PROPOSED TYPICAL SECTION**

**US ROUTE 14**

STA 161+56 TO STA 168+50  
STA 183+78 TO STA 187+18

**LEGEND**

- (A1) EXISTING HMA SURFACE, 3"±
- (A2) EXISTING HMA SURFACE, 10 1/2"±
- (A3) EXISTING HMA SURFACE, 8"±
- (A4) EXISTING HMA SURFACE, 9"±
- (B1) EXISTING PCC BASE, 9" - 6" - 9"
- (B2) EXISTING HMA BASE, 10"±
- (B3) EXISTING HMA BASE, 11"±
- (C) EXISTING AGGREGATE SHOULDER, 6"±
- (D) HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/4"
- (E) EXISTING COMBINATION CONCRETE CURB AND GUTTER
- (F) EXISTING PAVED SHOULDERS
- (G) EXISTING PCC SIDEWALK
- [Hatched Box] ITEM TO BE REMOVED
- (1) HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70 (IL-9.5mm) - 1 1/2"
- (2) POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50 - 3/4"
- (3) GRADING AND SHAPING SHOULDERS AND AGGREGATE WEDGE SHOULDER, TYPE B
- (SE) SAFETY EDGE (SEE DETAIL SHEET 5) - REQUIRED ON ALL LOCATIONS WITH LESS THAN 3' OF PAVED SHOULDER

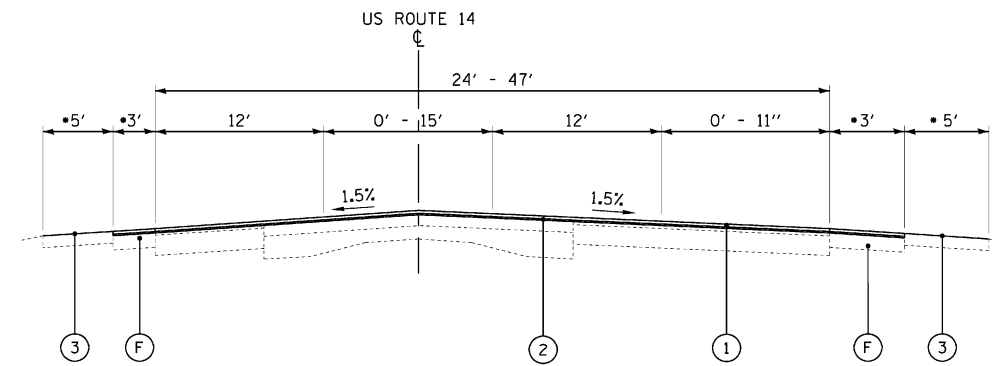


• 10' PAVED SHLD STA 241+75 TO STA 246+07 LT  
9' PAVED SHLD STA 240+85 TO STA 245+26 RT

**EXISTING TYPICAL SECTION**

**US ROUTE 14**

STA 233+83 TO STA 247+46

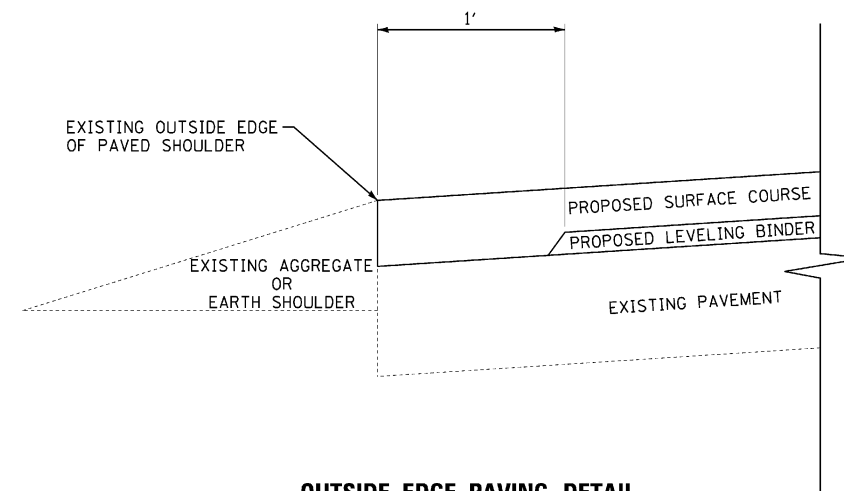


• 10' PAVED SHLD STA 241+75 TO STA 246+07 LT  
9' PAVED SHLD STA 240+85 TO STA 245+26 RT

**PROPOSED TYPICAL SECTION**

**US ROUTE 14**

STA 233+83 TO STA 247+46



**OUTSIDE EDGE PAVING DETAIL**

(APPLIES TO LOCATIONS WITH GREATER THAN OR EQUAL TO 3' OF PAVED SHOULDER)

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DESIGNED - DSH	REVISED - 6-6-11 IDOT REVIEW
DRAWN - KAR	REVISED - 7-20-11 IDOT REVIEW
CHECKED - LDH	REVISED -
DATE - 12-13-10	FILE: 100153-W019-TYPSEC-1.dwg

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

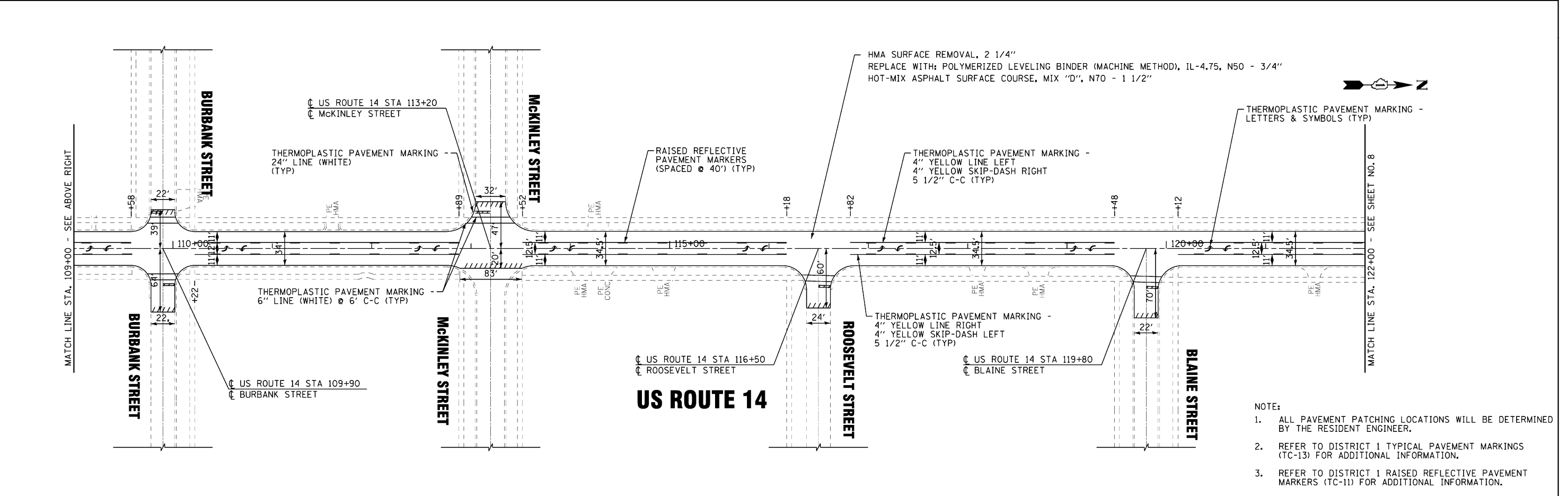
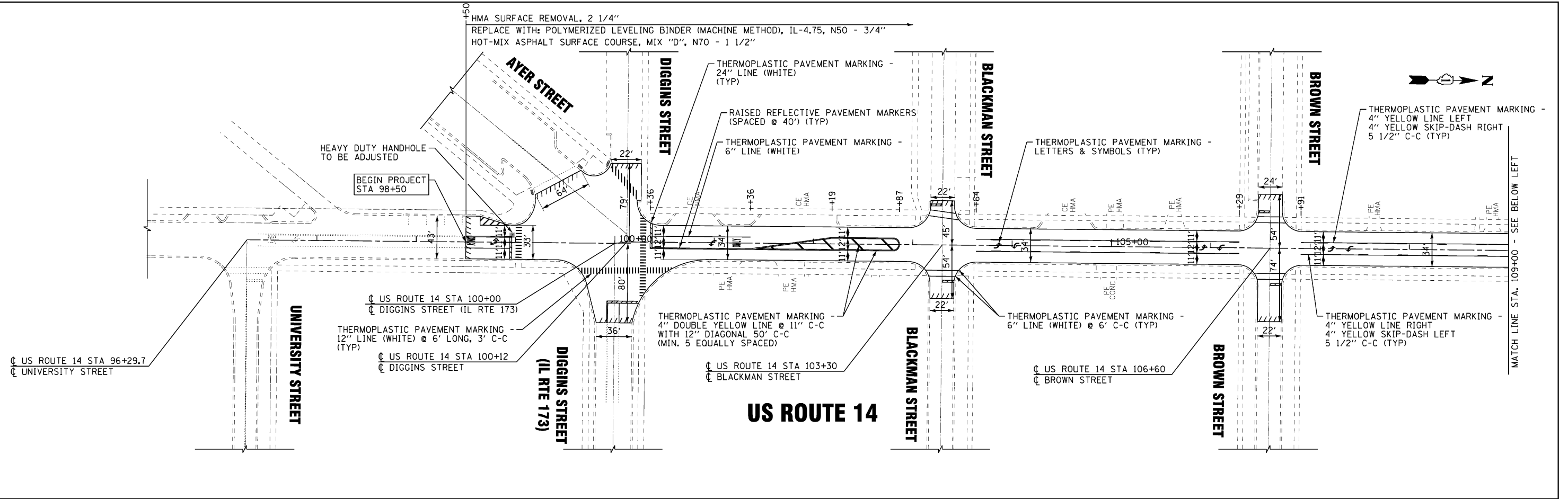
**US ROUTE 14  
DIGGINS STREET (IL ROUTE 173) TO STATE LINE ROAD  
TYPICAL SECTIONS**

SCALE: NONE

STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
66	21-RS-3	McHENRY	32	6
C-91-297-11		CONTRACT NO. 60N27		
FED. ROAD DIST. NO. 1 ILLINOIS FED AID PROJECT				





- 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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DRAWN - KAR	REVISED -
CHECKED - LDH	REVISED -
DATE - 12-13-10	FILE: 100153-W019-Plan1.shd

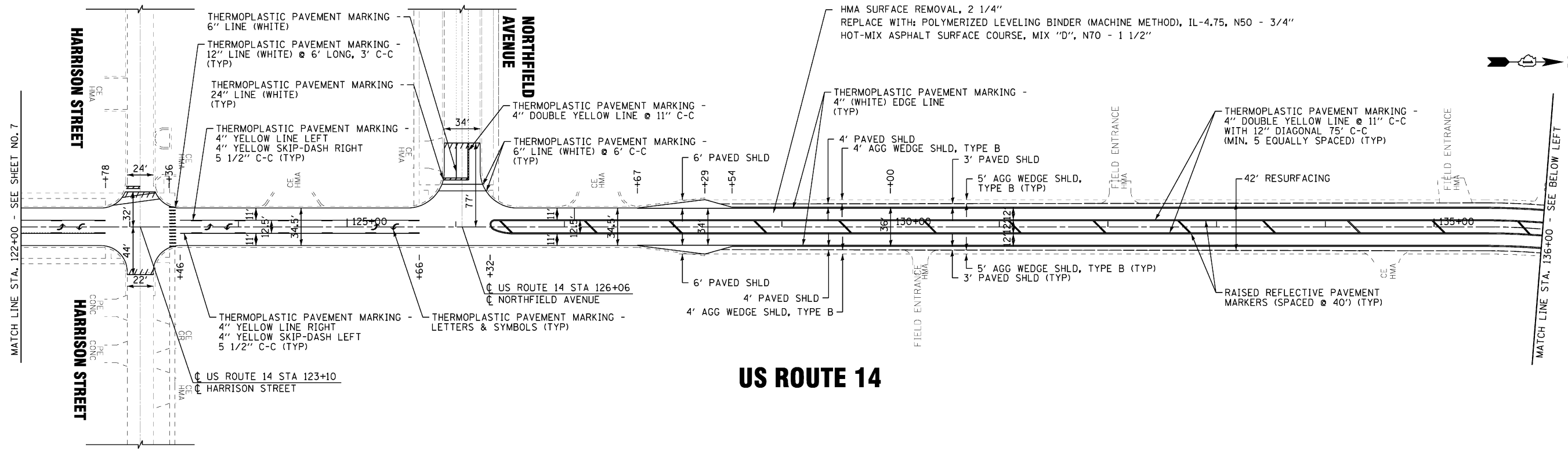
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**US ROUTE 14  
DIGGINS STREET (IL ROUTE 173) TO STATE LINE ROAD  
ROADWAY AND PAVEMENT MARKING PLAN**

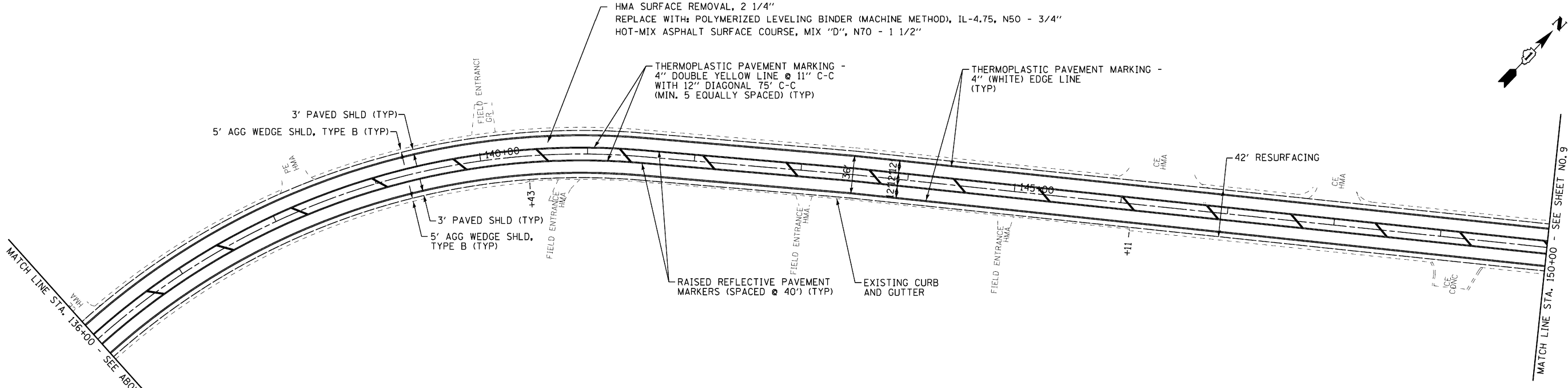
SCALE: 1" = 50'      STA. 96+29.73 TO STA. 122+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
066	21-RS-3	McHENRY	32	7
C-91-297-11		CONTRACT NO. 60N27		
FED. ROAD DIST. NO. 1   ILLINOIS   FED AID PROJECT				





**US ROUTE 14**



**US ROUTE 14**

- 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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 PROJECT: ILLINOIS STATE ROUTE 173 TO STATE LINE ROAD  
 DRAWING: ROADWAY AND PAVEMENT MARKING PLAN  
 DATE: 12/13/10  
 FILE: 100153-W019-Plan2.shd



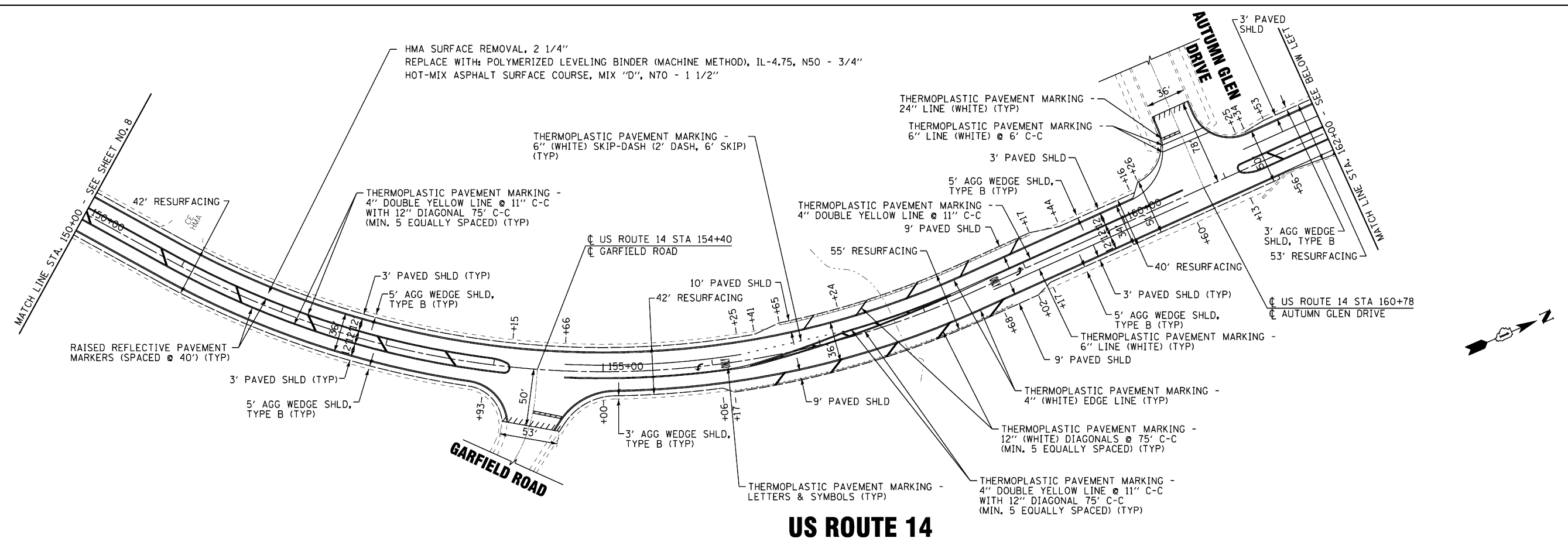
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DATE	- 12-13-10	FILE	- 100153-W019-Plan2.shd

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

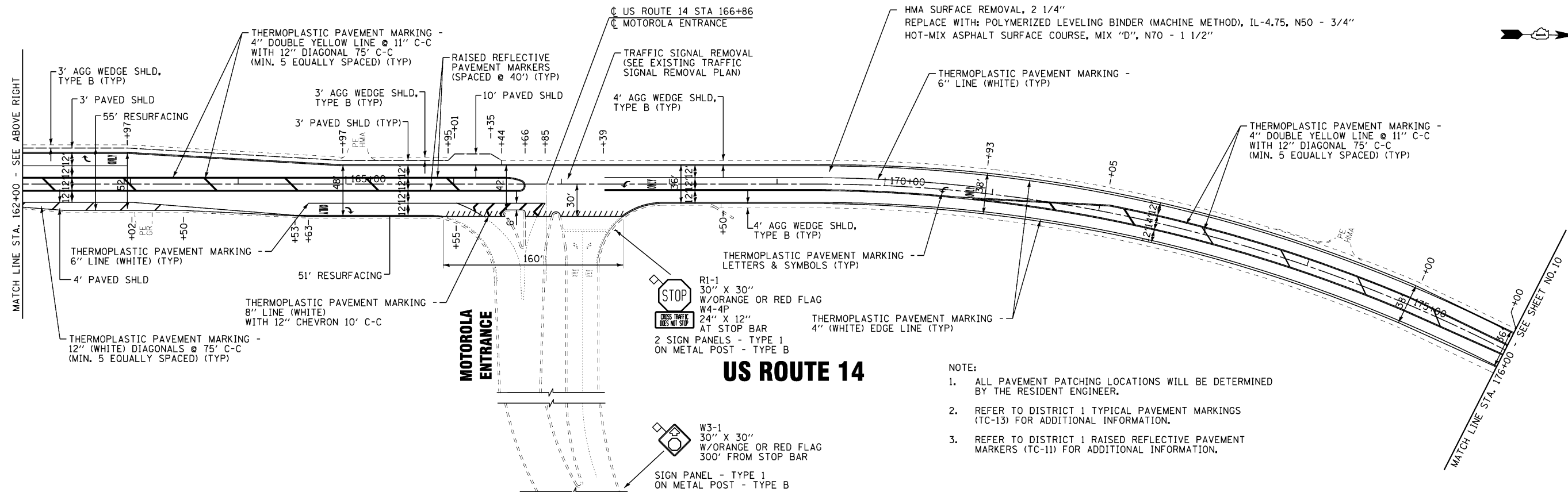
**US ROUTE 14  
DIGGINS STREET (IL ROUTE 173) TO STATE LINE ROAD  
ROADWAY AND PAVEMENT MARKING PLAN**

SCALE: 1" = 50'      STA. 122+00      TO STA. 150+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
066	21-RS-3	McHENRY	32	8
C-91-297-11		CONTRACT NO. 60N27		
FED. ROAD DIST. NO. 1 (ILLINOIS) FED AID PROJECT				

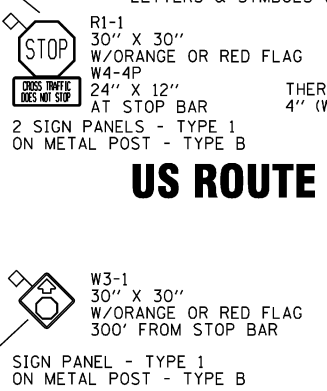


**US ROUTE 14**



**US ROUTE 14**

- 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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 PROJECT: ILLINOIS STATE ROUTE 14 DIGGINS STREET TO STATE LINE ROAD  
 DRAWING NO.: 185-00123-EXP-02  
 DATE: 2/27/2013  
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DRAWN - KAR	REVISED -
CHECKED - LDH	REVISED -
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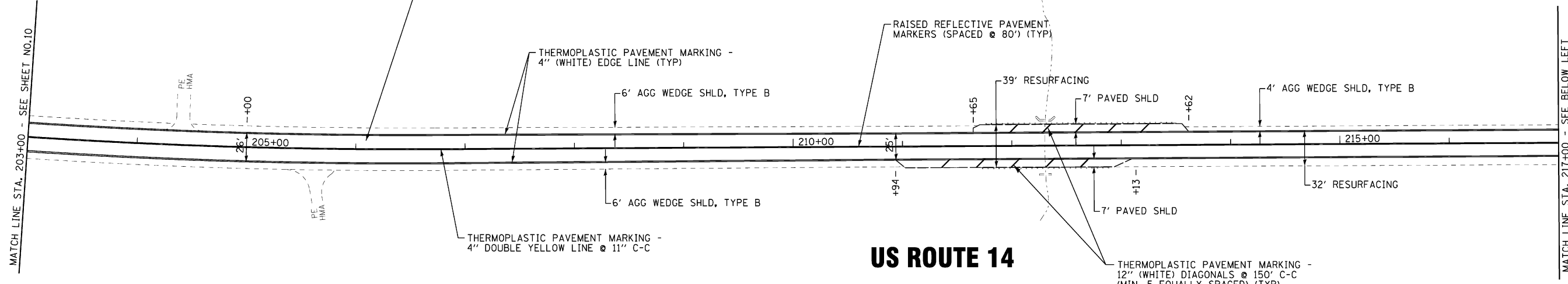
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

**US ROUTE 14**  
**DIGGINS STREET (IL ROUTE 173) TO STATE LINE ROAD**  
**ROADWAY AND PAVEMENT MARKING PLAN**

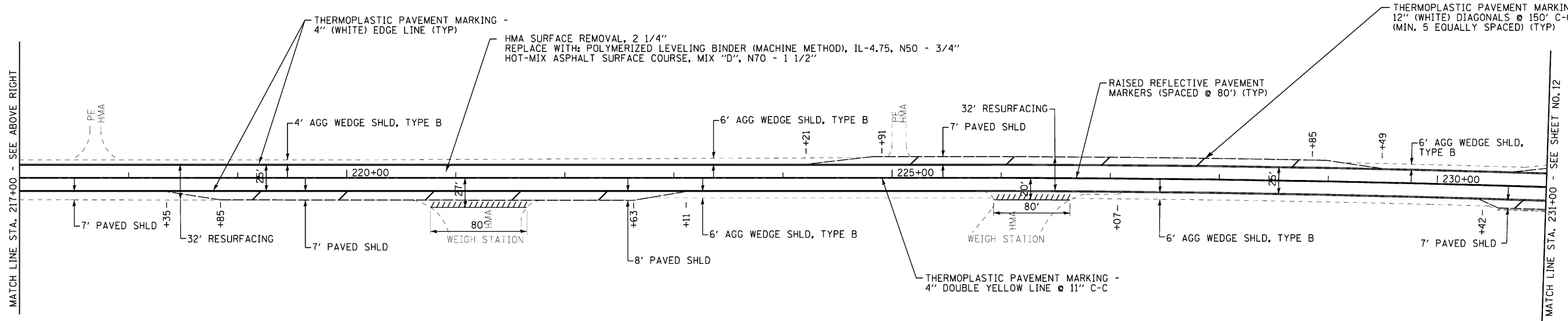
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STA. 150+00 TO STA. 175+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
066	21-RS-3	McHENRY	32	9
C-91-297-11		CONTRACT NO. 60N27		
FED. ROAD DIST. NO. 1 (ILLINOIS) FED AID PROJECT				





**US ROUTE 14**



**US ROUTE 14**

- 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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 PROJECT: ILLINOIS STATE ROUTE 14 DIGGINS STREET TO STATE LINE ROAD  
 DRAWING: ROADWAY AND PAVEMENT MARKING PLAN  
 DATE: 12/13/10  
 FILE: 100153-W019-Plan5.shp



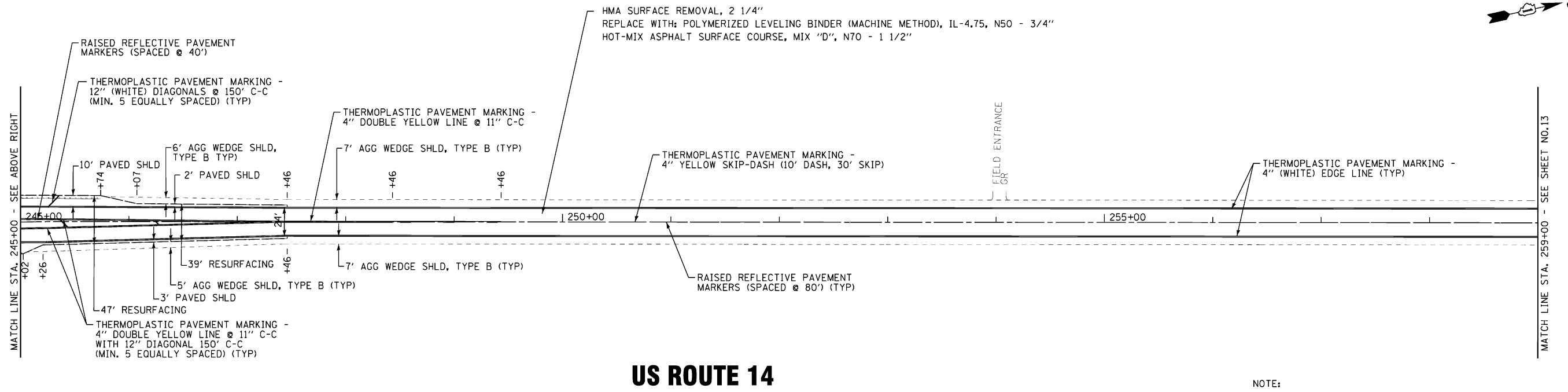
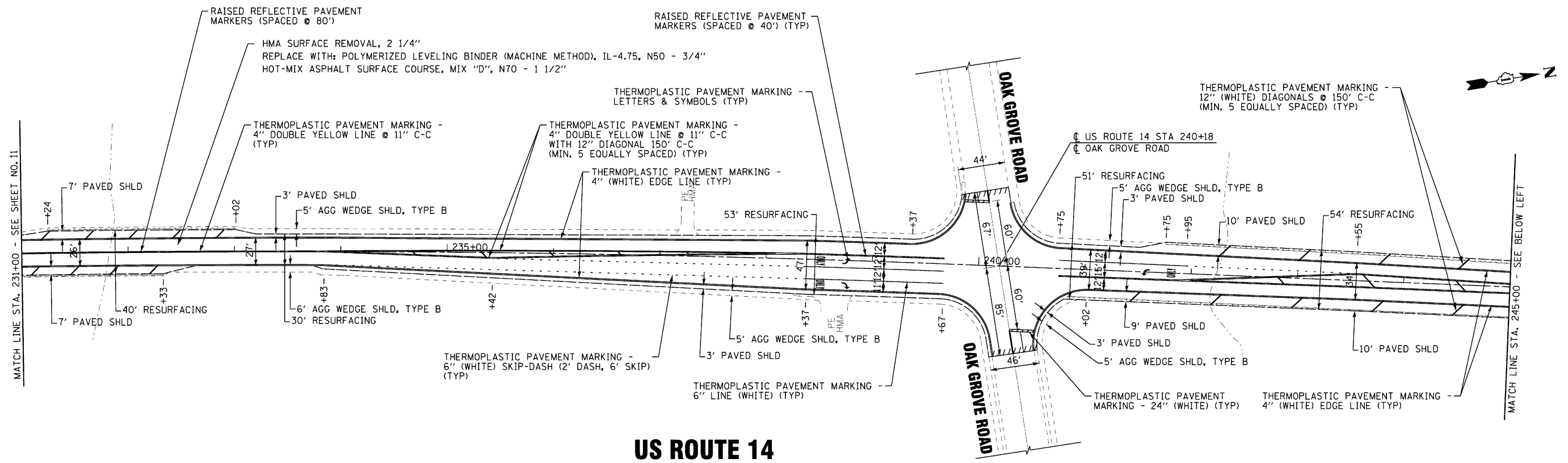
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CHECKED -	LDH	REVISED -	
DATE -	12-13-10	FILE -	100153-W019-Plan5.shp

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**US ROUTE 14  
DIGGINS STREET (IL ROUTE 173) TO STATE LINE ROAD  
ROADWAY AND PAVEMENT MARKING PLAN**

SCALE: 1" = 50'      STA. 203+00      TO STA. 231+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
066	21-RS-3	McHENRY	32	11
C-91-297-11			CONTRACT NO. 60N27	
FED. ROAD DIST. NO. 1 (ILLINOIS) FED AID PROJECT				



- 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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DESIGNED - DSH	REVISED - 5-29-12 UPDATE
DRAWN - KAR	REVISED -
CHECKED - LDH	REVISED -
DATE - 12-13-10	FILE: 100153-W019-Plan6.shd

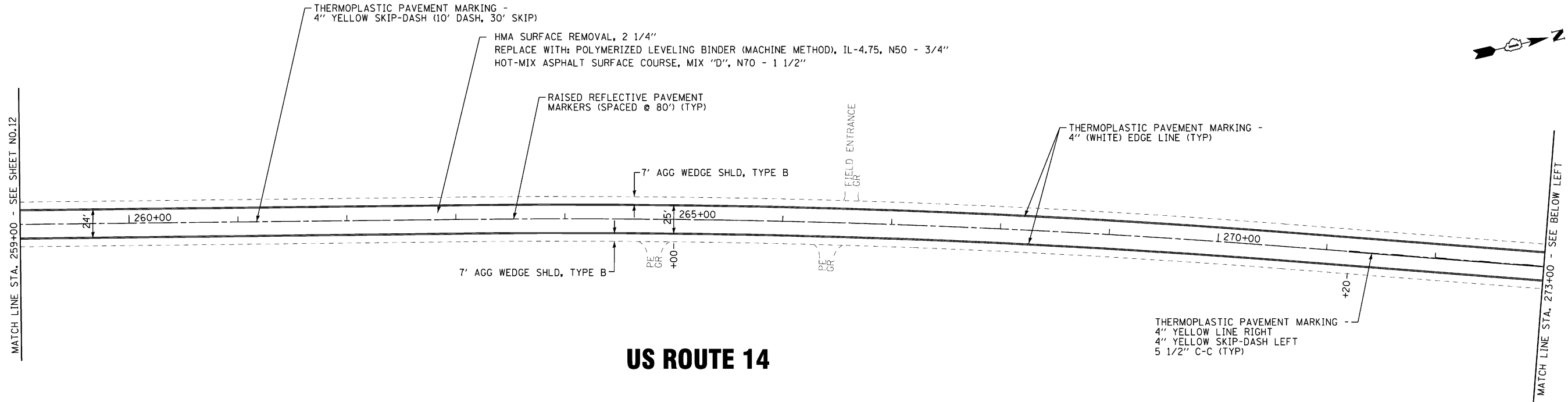
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**US ROUTE 14  
DIGGINS STREET (IL ROUTE 173) TO STATE LINE ROAD  
ROADWAY AND PAVEMENT MARKING PLAN**

SCALE: 1" = 50'      STA. 231+00      TO STA. 259+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
066	21-RS-3	MCHENRY	32	12
C-91-297-11			CONTRACT NO. 60N27	
FED. ROAD DIST. NO. 1   ILLINOIS   FED AID PROJECT				

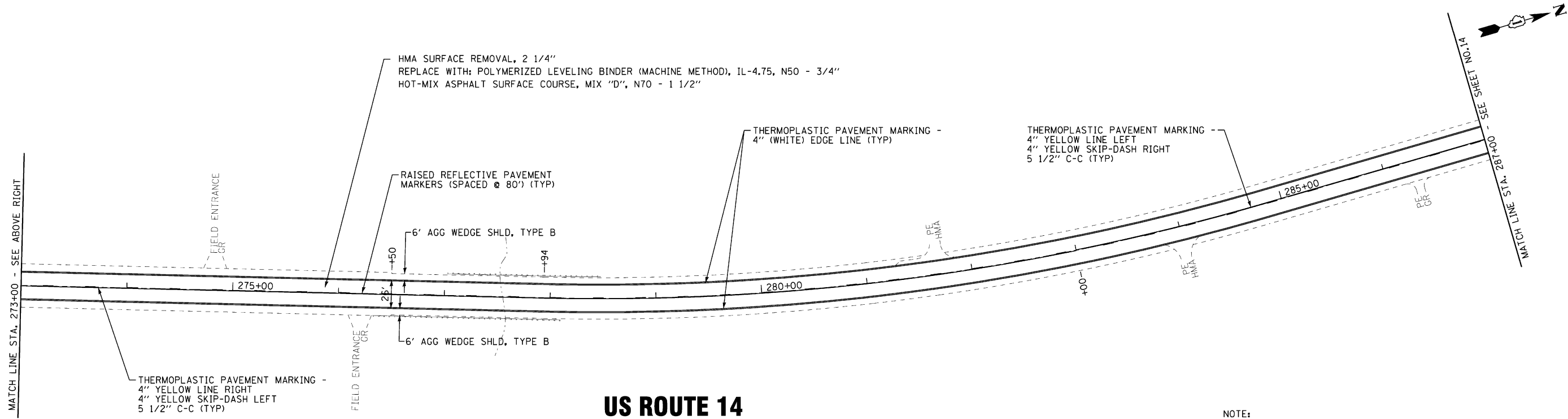
MATCH LINE STA. 259+00 - SEE SHEET NO.12



**US ROUTE 14**

MATCH LINE STA. 273+00 - SEE BELOW LEFT

MATCH LINE STA. 273+00 - SEE ABOVE RIGHT



**US ROUTE 14**

MATCH LINE STA. 287+00 - SEE SHEET NO.14

- 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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DESIGNED - DSH	REVISED -
DRAWN - KAR	REVISED -
CHECKED - LDH	REVISED -
DATE - 12-13-10	FILE-100153-W019-Plan7.shd

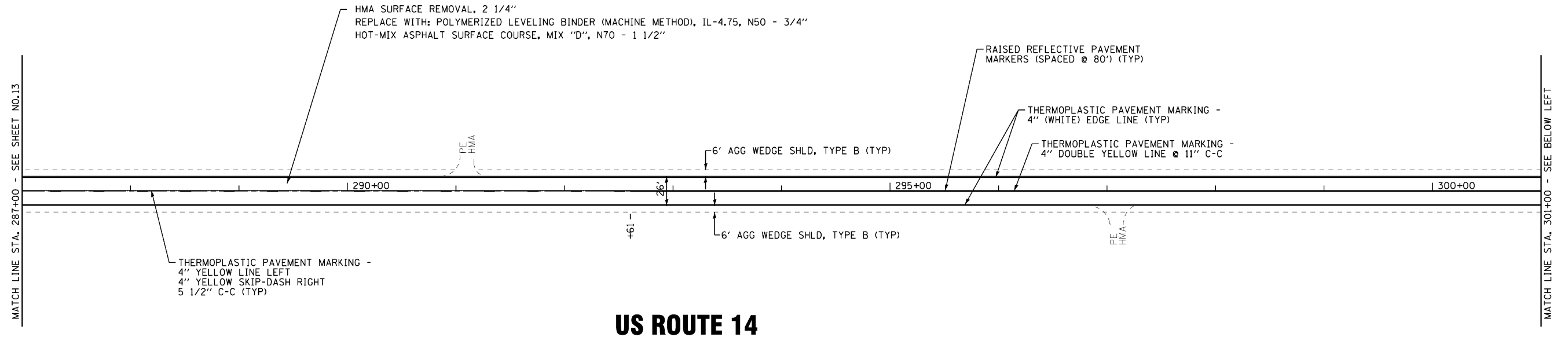
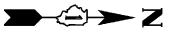
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**US ROUTE 14  
DIGGINS STREET (IL ROUTE 173) TO STATE LINE ROAD  
ROADWAY AND PAVEMENT MARKING PLAN**

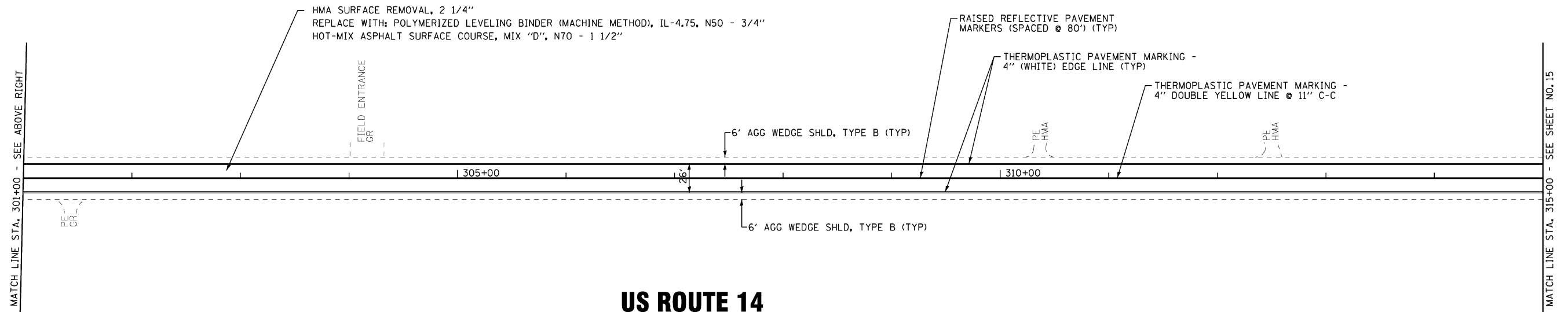
SCALE: 1" = 50'

STA. 259+00 TO STA. 287+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
066	21-RS-3	McHENRY	32	13
C-91-297-11			CONTRACT NO. 60N27	
FED. ROAD DIST. NO. 1 ILLINOIS FED AID PROJECT				



**US ROUTE 14**



**US ROUTE 14**

**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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 PROJECT: ILLINOIS ROUTE 14 DIGGINS STREET TO STATE LINE ROAD  
 SHEET: 21-RS-3  
 DATE: 12/13/10  
 DRAWN BY: KAR  
 CHECKED BY: LDH  
 FILE: 100153-W019-Plan8.shp



DESIGNED - DSH	REVISED -
DRAWN - KAR	REVISED -
CHECKED - LDH	REVISED -
DATE - 12-13-10	FILE: 100153-W019-Plan8.shp

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

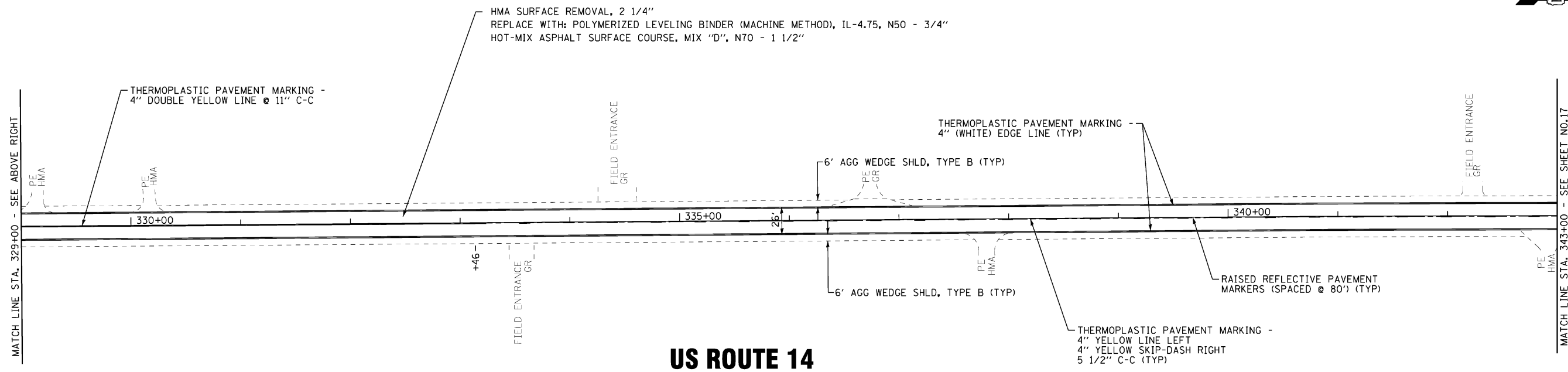
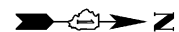
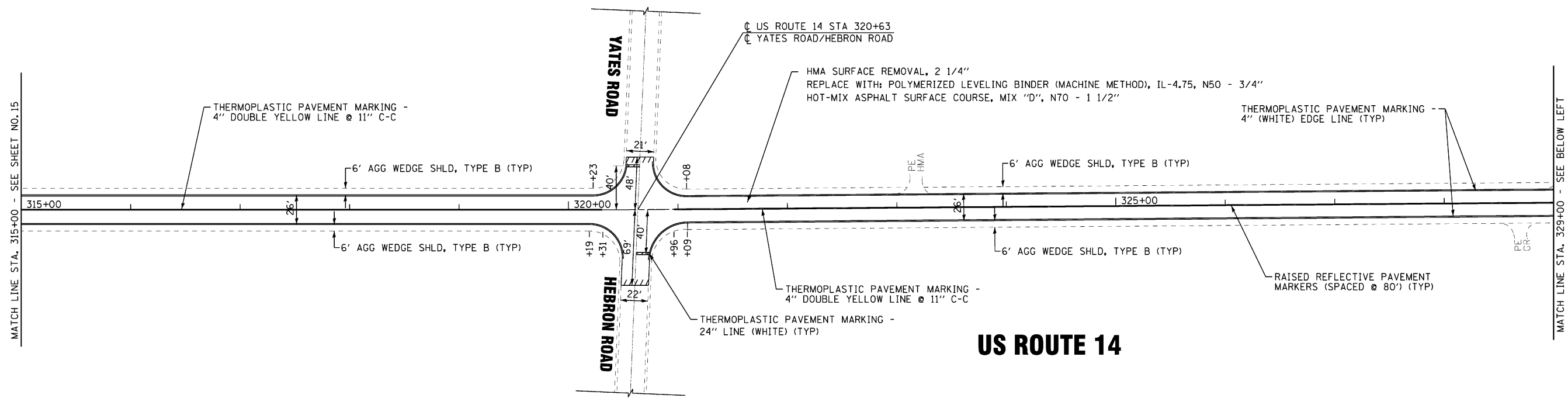
**US ROUTE 14  
DIGGINS STREET (IL ROUTE 173) TO STATE LINE ROAD  
ROADWAY AND PAVEMENT MARKING PLAN**

SCALE: 1" = 50'

STA. 287+00 TO STA. 315+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
066	21-RS-3	McHENRY	32	14
C-91-297-11			CONTRACT NO. 60N27	
FED. ROAD DIST. NO. 1 ILLINOIS FED AID PROJECT				





- 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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 LICENSE NO. 185-000237-EXP-03-2/20/2013  
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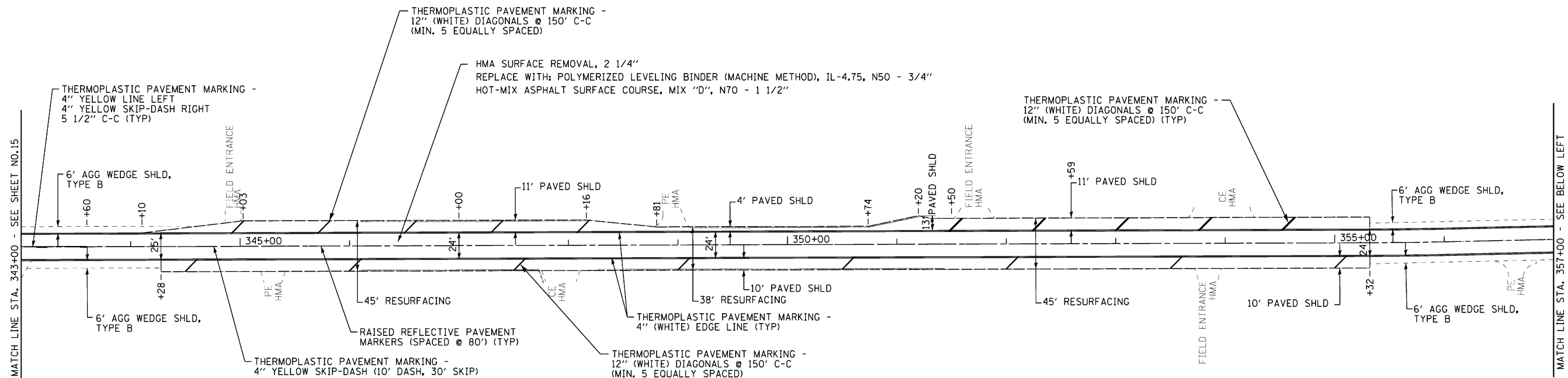
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DRAWN - KAR	REVISED -
CHECKED - LDH	REVISED -
DATE - 12-13-10	FILE-100153-W019-Plan9.shx

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

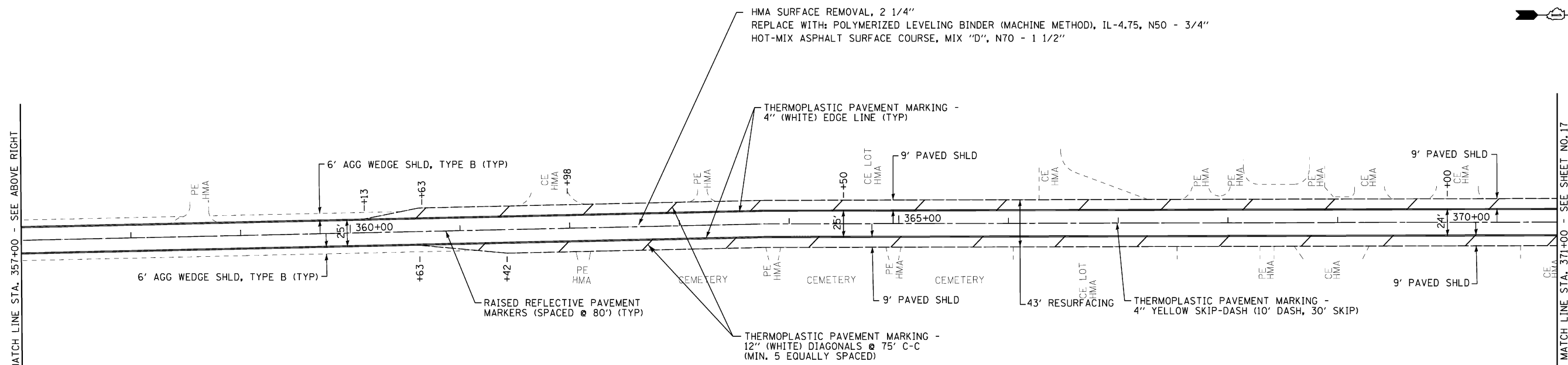
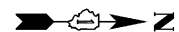
US ROUTE 14  
DIGGINS STREET (IL ROUTE 173) TO STATE LINE ROAD  
ROADWAY AND PAVEMENT MARKING PLAN

SCALE: 1" = 50'      STA. 315+00      TO STA. 343+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
066	21-RS-3	McHENRY	32	15
C-91-297-11		CONTRACT NO. 60N27		
FED. ROAD DIST. NO. 1 ILLINOIS FED AID PROJECT				



**US ROUTE 14**



**US ROUTE 14**

- 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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 PROJECT: ILLINOIS STATE ROAD 173 TO STATE LINE ROAD  
 DRAWING: ROADWAY AND PAVEMENT MARKING PLAN  
 DATE: 12/13/10  
 FILE: 100153-W019-Plan10.shp



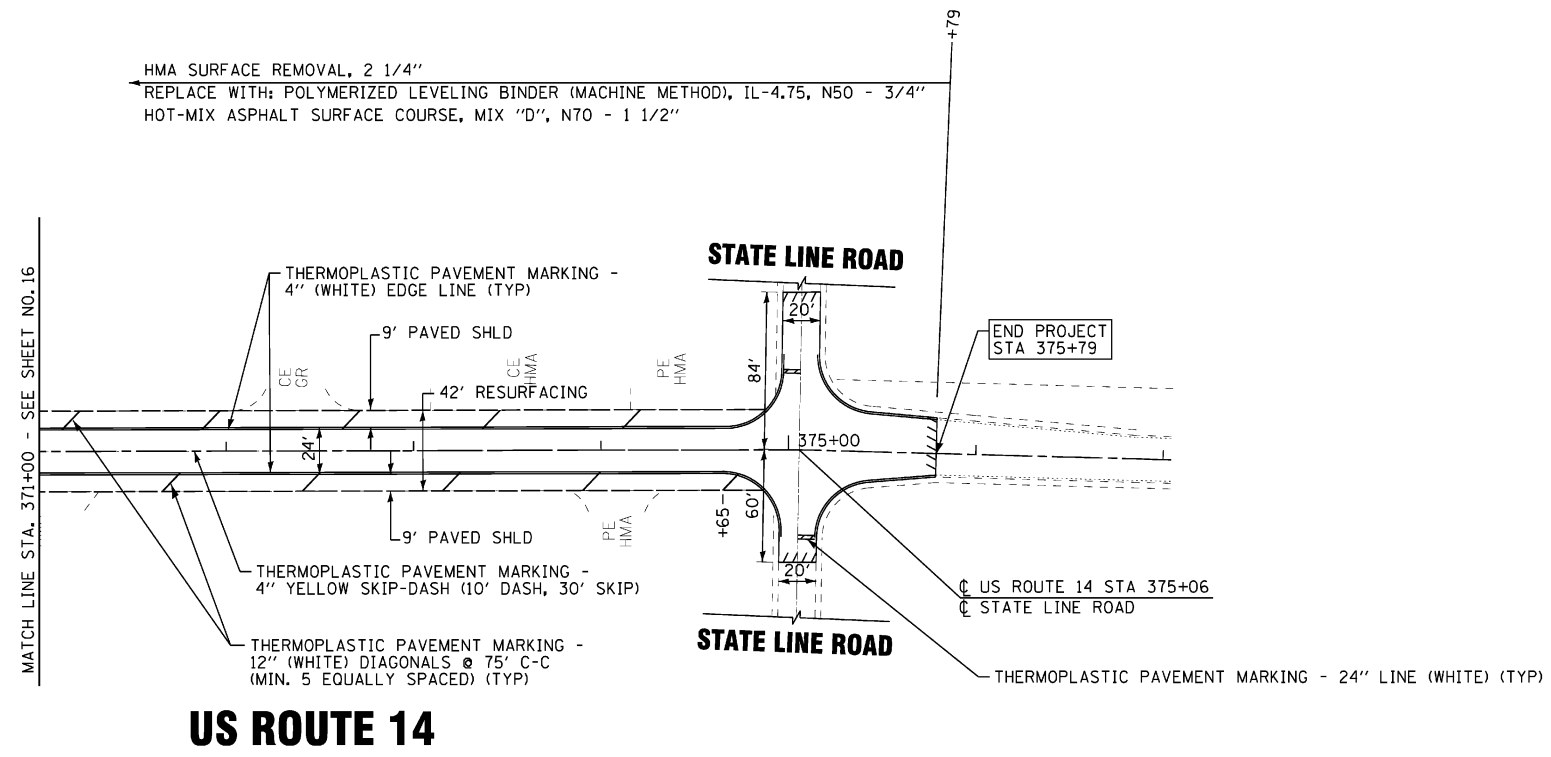
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DRAWN - KAR	REVISED -
CHECKED - LDH	REVISED -
DATE - 12-13-10	FILE: 100153-W019-Plan10.shp

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

**US ROUTE 14**  
**DIGGINS STREET (IL ROUTE 173) TO STATE LINE ROAD**  
**ROADWAY AND PAVEMENT MARKING PLAN**

SCALE: 1" = 50'      STA. 343+00      TO STA. 371+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
066	21-RS-3	McHENRY	32	16
C-91-297-11		CONTRACT NO. 60N27		
FED. ROAD DIST. NO. 1 ILLINOIS FED AID PROJECT				



**US ROUTE 14**

**STATE LINE ROAD**

**STATE LINE ROAD**

END PROJECT STA 375+79

US ROUTE 14 STA 375+06  
STATE LINE ROAD

THERMOPLASTIC PAVEMENT MARKING - 24" LINE (WHITE) (TYP)

HMA SURFACE REMOVAL, 2 1/4"  
REPLACE WITH: POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50 - 3/4"  
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70 - 1 1/2"

MATCH LINE STA. 371+00 - SEE SHEET NO. 16

- 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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 2/27/2013



DESIGNED - DSH	REVISED -
DRAWN - KAR	REVISED -
CHECKED - LDH	REVISED -
DATE - 12-13-10	FILE-100153-W019-Plan11.shp

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**US ROUTE 14  
DIGGINS STREET (IL ROUTE 173) TO STATE LINE ROAD  
ROADWAY AND PAVEMENT MARKING PLAN**

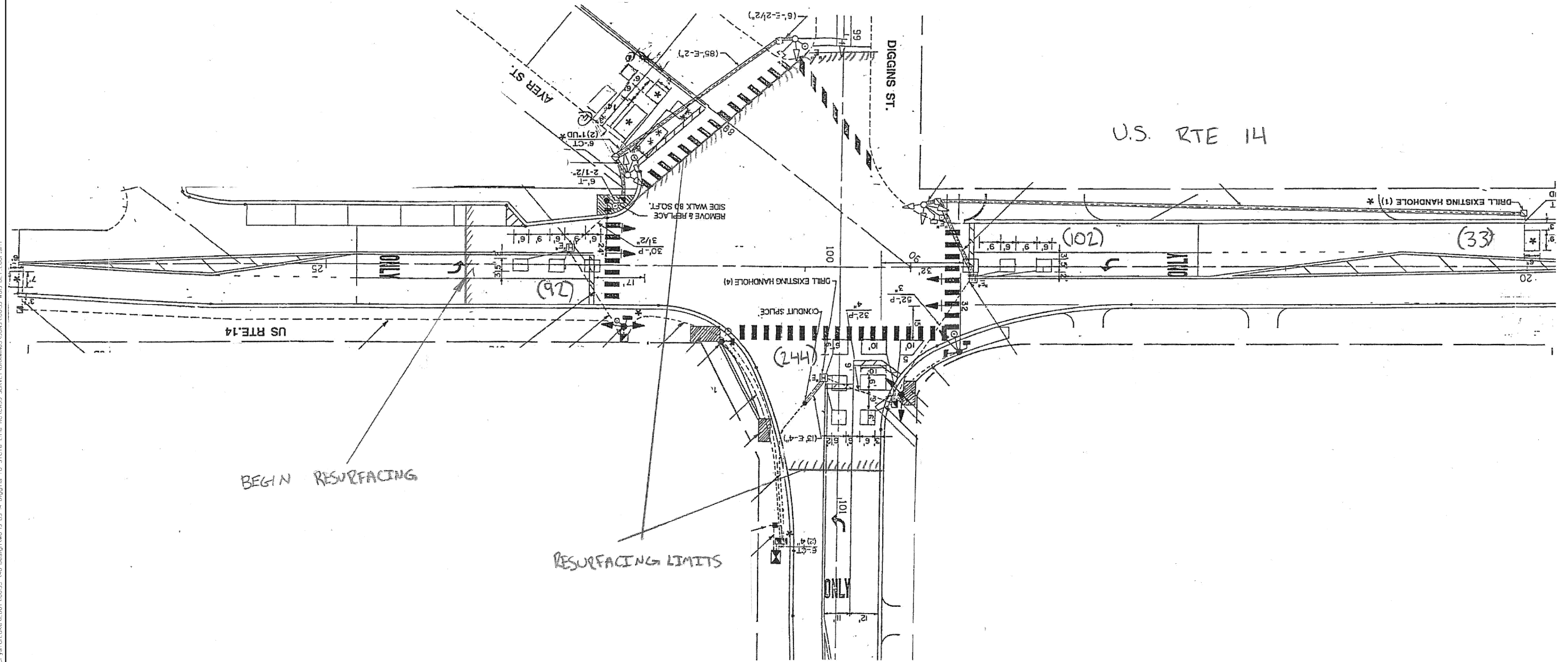
SCALE: 1" = 50'      STA. 371+00      TO STA. 375+79

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
066	21-RS-3	McHENRY	32	17
C-91-297-11			CONTRACT NO. 60N27	
FED. ROAD DIST. NO. 1   ILLINOIS   FED AID PROJECT				

WORK SHALL MEET THE REQUIREMENTS OF THE SPECIAL PROVISION, "TRAFFIC SIGNAL SPECIFICATIONS FOR DETECTOR LOOP REPLACEMENT AND/OR INSTALLATION ON ROADWAY GRINDING, RESURFACING AND PATCHING OPERATIONS". SPECIAL ATTENTION MUST BE MADE TO THE SECTIONS "INSPECTION OF CONSTRUCTION" AND "DETECTOR LOOP REPLACEMENT" FOR INSTALLATION AND INSPECTION REQUIREMENTS. LOOP REPLACEMENT WORK THAT DOES NOT MEET THE CONTRACT REQUIREMENTS SHALL NOT BE PAID. WORK NECESSARY TO COMPLETE THE LOOP REPLACEMENT WORK MAY BE ASSIGNED BY THE ENGINEER TO IDOT'S ELECTRICAL MAINTENANCE CONTRACTOR (EMC); ALL RELATED COSTS WILL BE THE RESPONSIBILITY OF THE CONTRACTOR.

**TRAFFIC SIGNAL LEGEND**

PROPOSED	EXISTING
SIGNAL HEAD WITH BACKPLATE	
SIGNAL HEAD	
GALVANIZED STEEL CONDUIT IN TRENCH OR PUSHED	
DETECTOR LOOP	
VEHICLE DETECTOR, NON COMPENSATED MAGNETIC TYPE	
RACEWAY FOR MAGNETIC DETECTOR, TYPE I OR TYPE II	



**REPLACE ALL DETECTOR LOOPS AS SHOWN  
(WITHIN THE RESURFACING LIMITS)**

CODE	QUANTITY	UNIT	ITEM
88600600	471	FOOT	DETECTOR LOOP, REPLACEMENT

**THIS PLAN IS FOR THE SOLE PURPOSE OF  
DETECTOR LOOP REPLACEMENTS ONLY**

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 LICENSE NO. 185-000218-EXPRES 4/20/2013  
 263.mec 2/27/2013



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DATE - 12-13-10	FILE: 100153-W019-DET_LOOP.sh+

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**DISTRICT ONE - DETECTOR LOOP REPLACEMENT  
U.S. ROUTE 14 IL 173 / DIGGINS STREET / AYER STREET**

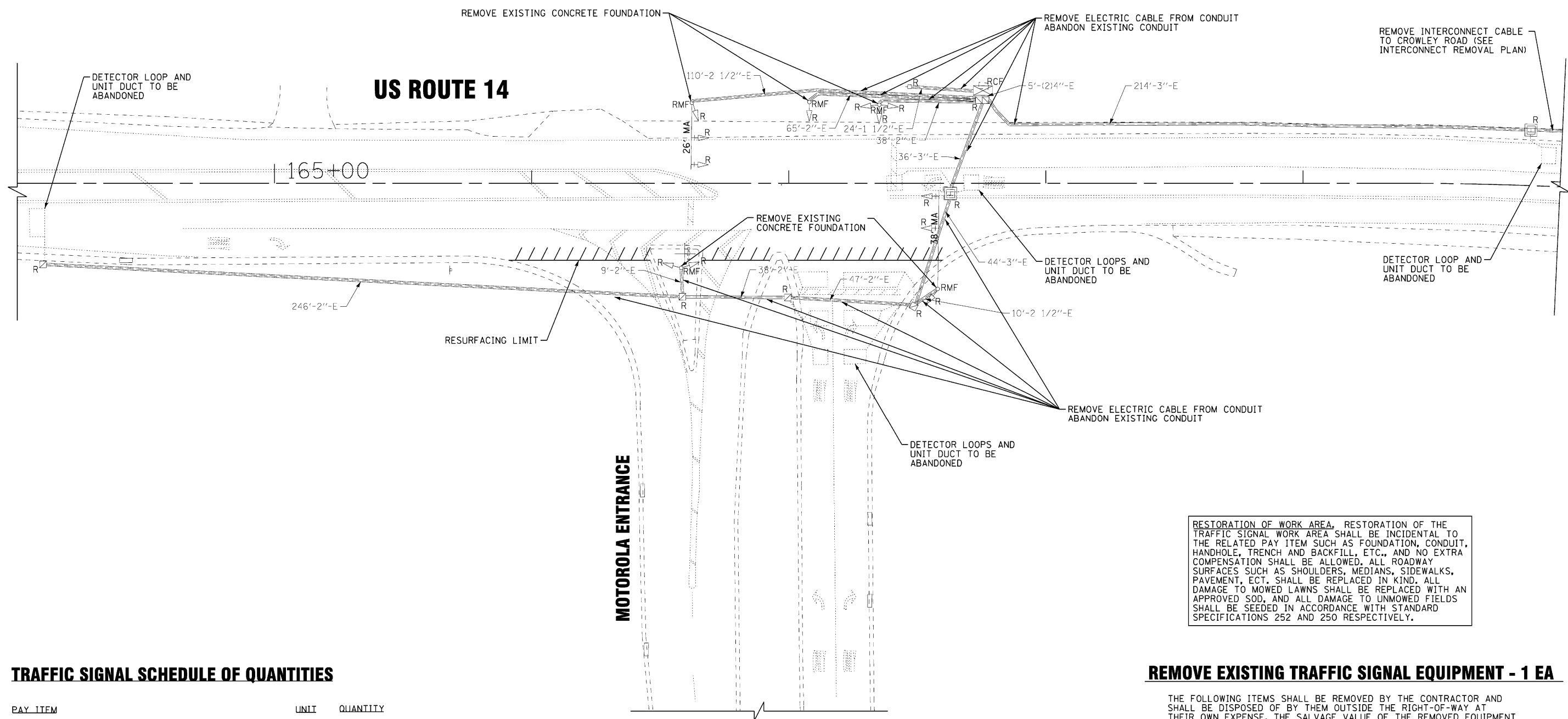
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
66	21-RS-3	McHENRY	32	18
C-91-297-11			CONTRACT NO. 60N27	
FED. ROAD DIST. NO. 1 ILLINOIS FED AID PROJECT				

# TRAFFIC SIGNAL LEGEND

ITEM	REMOVAL	EXISTING	PROPOSED	ITEM	REMOVAL	EXISTING	PROPOSED	ITEM	REMOVAL	EXISTING	PROPOSED
CONTROLLER CABINET				EMERGENCY VEHICLE LIGHT DETECTOR				ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1/C, UNLESS NOTED OTHERWISE			
RAILROAD CONTROL CABINET				CONFIRMATION BEACON				COAXIAL CABLE			
COMMUNICATIONS CABINET				HANDHOLE				VENDOR CABLE FOR CAMERA			
MASTER CONTROLLER				HEAVY DUTY HANDHOLE				COPPER INTERCONNECT CABLE, NO. 18 3 PAIR TWISTED, SHIELDED			
MASTER MASTER CONTROLLER				DOUBLE HANDHOLE				FIBER OPTIC CABLE NO. 62.5/125, MM12F			
UNINTERRUPTIBLE POWER SUPPLY				JUNCTION BOX				FIBER OPTIC CABLE NO. 62.5/125, MM12F SM12F			
SERVICE INSTALLATION, (P) POLE OR (G) GROUND MOUNT				GALVANIZED STEEL CONDUIT IN TRENCH (T) OR PUSHED (P)				FIBER OPTIC CABLE NO. 62.5/125, MM12F			
TELEPHONE CONNECTION (P) POLE OR (G) GROUND MOUNT				TEMPORARY SPAN WIRE, TETHER WIRE, AND CABLE				FIBER OPTIC CABLE NO. 62.5/125, MM12F			
STEEL MAST ARM ASSEMBLY AND POLE				COMMON TRENCH				FIBER OPTIC CABLE NO. 62.5/125, (NUMBER OF FIBERS & TYPE TO BE NOTED ON PLANS)			
ALUMINUM MAST ARM ASSEMBLY AND POLE				COILABLE NONMETALLIC CONDUIT (EMPTY)				GROUND ROD AT (C) CONTROLLER, (H) HANDHOLE, (P) POST, (M) MAST ARM, OR (S) SERVICE			
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH LUMINAIRE				SYSTEM ITEM		S	S	CONTROLLER CABINET AND FOUNDATION TO BE REMOVED			
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH PTZ CAMERA				INTERSECTION ITEM		I	IP	STEEL MAST ARM POLE AND FOUNDATION TO BE REMOVED			
SIGNAL POST				REMOVE ITEM	R			ALUMINUM MAST ARM POLE AND FOUNDATION TO BE REMOVED			
TEMPORARY WOOD POLE (CLASS 5 OR BETTER) 45 FOOT (13.7m) MINIMUM				RELOCATE ITEM	RL			STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH LUMINAIRE AND FOUNDATION TO BE REMOVED			
GUY WIRE				ABANDON ITEM	A			SIGNAL POST AND FOUNDATION TO BE REMOVED			
SIGNAL HEAD				12" (300mm) TRAFFIC SIGNAL SECTION				INTERSECTION & SAMPLING (SYSTEM) DETECTOR			
SIGNAL HEAD CONSTRUCTION STAGES (NUMBERS INDICATE THE CONSTRUCTION STAGE)				12" (300mm) RED WITH 8" (200mm) YELLOW AND GREEN TRAFFIC SIGNAL FACE				SAMPLING (SYSTEM) DETECTOR			
SIGNAL HEAD WITH BACKPLATE				SIGNAL FACE				EXISTING INTERSECTION LOOP DETECTOR PROPOSED INTERSECTION AND SAMPLING (SYSTEM) DETECTOR			
SIGNAL HEAD OPTICALLY PROGRAMMED				SIGNAL FACE WITH BACKPLATE, "P" INDICATES PROGRAMMED HEAD				EXISTING PREFORMED INTERSECTION LOOP DETECTOR PROPOSED INTERSECTION AND SAMPLING (SYSTEM) DETECTOR			
FLASHER INSTALLATION (S DENOTES SOLAR POWER)				12" (300mm) PEDESTRIAN SIGNAL HEAD WALK/DON'T WALK SYMBOL				PREFORMED INTERSECTION AND SAMPLING (SYSTEM) DETECTOR			
PEDESTRIAN SIGNAL HEAD				12" (300mm) PEDESTRIAN SIGNAL HEAD INTERNATIONAL SYMBOL, OUTLINED				PREFORMED SAMPLING (SYSTEM) DETECTOR			
PEDESTRIAN PUSHBUTTON DETECTOR				12" (300mm) PEDESTRIAN SIGNAL HEAD INTERNATIONAL SYMBOL, SOLID				<b>RAILROAD SYMBOLS</b>			
ACCESSIBLE PEDESTRIAN PUSHBUTTON DETECTOR				PEDESTRIAN SIGNAL HEAD, INTERNATIONAL SYMBOL, WITH COUNTDOWN TIMER				EXISTING		PROPOSED	
ILLUMINATED SIGN "NO LEFT TURN"				RADIO INTERCONNECT							
ILLUMINATED SIGN "NO RIGHT TURN"				RADIO REPEATER							
DETECTOR LOOP, TYPE I				DENOTES NUMBER OF CONDUCTORS, ELECTRIC CABLE NO. 14, UNLESS NOTED OTHERWISE, ALL DETECTOR LOOP CABLE TO BE SHIELDED							
PREFORMED DETECTOR LOOP				GROUND CABLE IN CONDUIT NO. 6 SOLID COPPER (GREEN)							
MICROWAVE VEHICLE SENSOR											
VIDEO DETECTION CAMERA											
VIDEO DETECTION ZONE											
PAN, TILT, ZOOM CAMERA											
WIRELESS DETECTOR SENSOR											
WIRELESS ACCESS POINT											

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RESTORATION OF WORK AREA, RESTORATION OF THE TRAFFIC SIGNAL WORK AREA SHALL BE INCIDENTAL TO THE RELATED PAY ITEM SUCH AS FOUNDATION, CONDUIT, HANDHOLE, TRENCH AND BACKFILL, ETC., AND NO EXTRA COMPENSATION SHALL BE ALLOWED. ALL ROADWAY SURFACES SUCH AS SHOULDERS, MEDIANS, SIDEWALKS, PAVEMENT, ECT. SHALL BE REPLACED IN KIND. ALL DAMAGE TO MOWED LAWNS SHALL BE REPLACED WITH AN APPROVED SOD, AND ALL DAMAGE TO UNMOWED FIELDS SHALL BE SEEDD IN ACCORDANCE WITH STANDARD SPECIFICATIONS 252 AND 250 RESPECTIVELY.

**TRAFFIC SIGNAL SCHEDULE OF QUANTITIES**

PAY ITEM	UNIT	QUANTITY
89500120 REMOVE EXISTING SERVICE INSTALLATION	EACH	1
89502300 REMOVE ELECTRICAL CABLE FROM CONDUIT	FOOT	2764
89502380 REMOVE EXISTING HANDHOLE	EACH	6
89502382 REMOVE EXISTING DOUBLE HANDHOLE	EACH	1
89502385 REMOVE EXISTING CONCRETE FOUNDATION	EACH	6
89502375 REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1

**REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT - 1 EA**

THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR OWN EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE.

QUANTITY	UNIT	ITEM
1	EACH	CONTROLLER AND CABINET (COMPLETE)
1	EACH	26' STEEL MAST ARM ASSEMBLY AND POLE
1	EACH	38' STEEL MAST ARM ASSEMBLY AND POLE
3	EACH	TRAFFIC SIGNAL POST
8	EACH	3 SECTION SIGNAL HEAD
2	EACH	5 SECTION SIGNAL HEAD
4	EACH	TRAFFIC SIGNAL BACKPLATE
2	EACH	4 SECTION SIGNAL HEAD

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DESIGNED - DSH	REVISED - 5-29-12 UPDATE
DRAWN - KAR	REVISED - 2-4-13 PER TRAFFIC
CHECKED - LDH	REVISED -
DATE - 12-13-10	FILE: 100153-W040-TS-RM-MTRLA.dgn

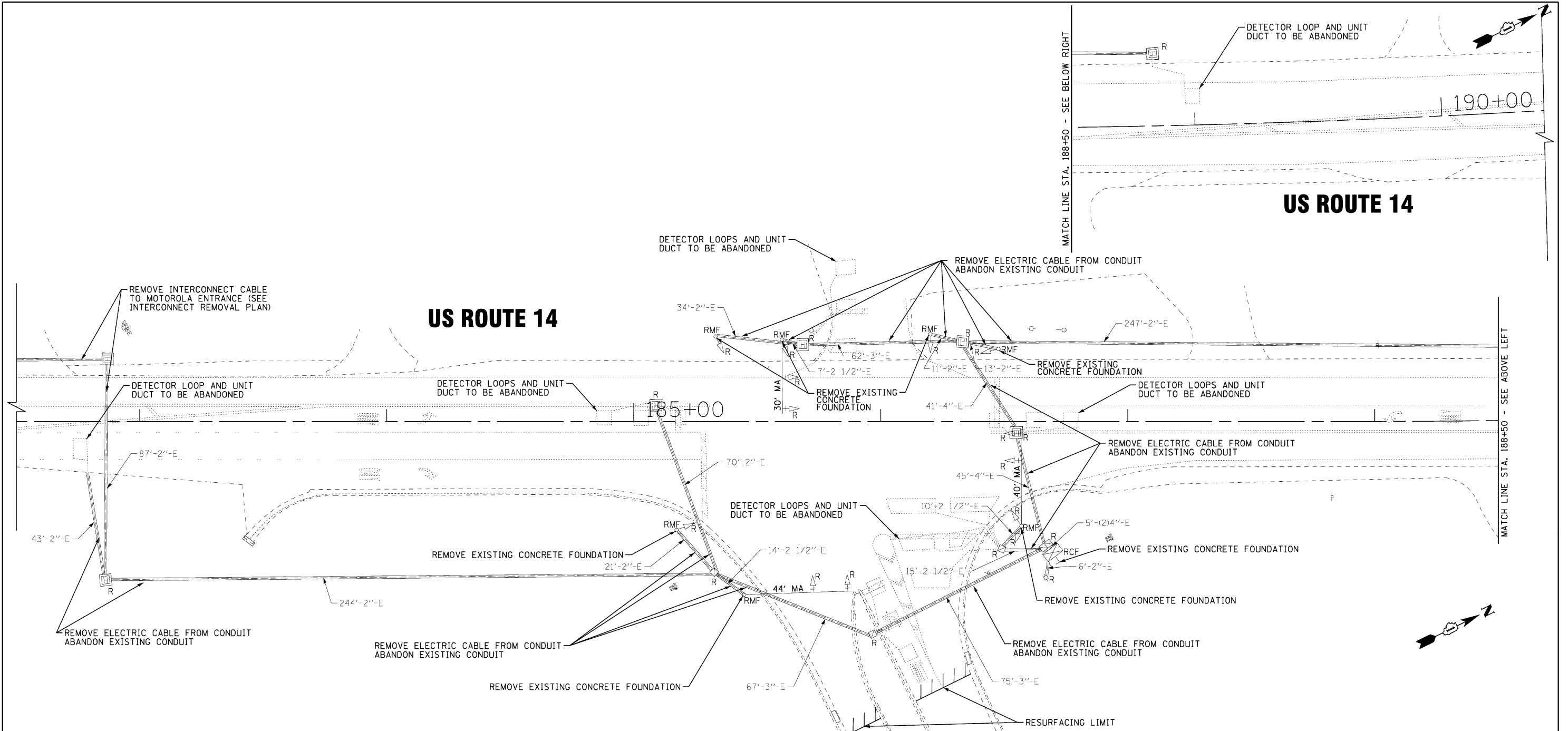
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

US 14 AT MOTOROLA ENTRANCE  
EXISTING TRAFFIC SIGNAL REMOVAL PLAN

SCALE: 1"=20'

STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
66	21-RS-3	McHENRY	32	20
C-91-297-11			CONTRACT NO. 60N27	
FED. ROAD DIST. NO. 1 ILLINOIS FED AID PROJECT				



**REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT - 1 EA**

THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR OWN EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE.

QUANTITY	UNIT	ITEM
1	EACH	CONTROLLER AND CABINET (COMPLETE)
1	EACH	30' STEEL MAST ARM ASSEMBLY AND POLE
1	EACH	40' STEEL MAST ARM ASSEMBLY AND POLE
1	EACH	44' STEEL MAST ARM ASSEMBLY AND POLE
4	EACH	TRAFFIC SIGNAL POST
7	EACH	3 SECTION SIGNAL HEAD
6	EACH	5 SECTION SIGNAL HEAD
6	EACH	TRAFFIC SIGNAL BACKPLATE

RESTORATION OF WORK AREA, RESTORATION OF THE TRAFFIC SIGNAL WORK AREA SHALL BE INCIDENTAL TO THE RELATED PAY ITEM SUCH AS FOUNDATION, CONDUIT, HANDHOLE, TRENCH AND BACKFILL, ETC., AND NO EXTRA COMPENSATION SHALL BE ALLOWED. ALL ROADWAY SURFACES SUCH AS SHOULDERS, MEDIANS, SIDEWALKS, PAVEMENT, ECT. SHALL BE REPLACED IN KIND. ALL DAMAGE TO MOWED LAWNS SHALL BE REPLACED WITH AN APPROVED SOD, AND ALL DAMAGE TO UNMOWED FIELDS SHALL BE SEEDED IN ACCORDANCE WITH STANDARD SPECIFICATIONS 252 AND 250 RESPECTIVELY.

**TRAFFIC SIGNAL SCHEDULE OF QUANTITIES**

PAY ITEM	UNIT	QUANTITY
89500120 REMOVE EXISTING SERVICE INSTALLATION	EACH	1
89502300 REMOVE ELECTRICAL CABLE FROM CONDUIT	FOOT	3597
89502380 REMOVE EXISTING HANDHOLE	EACH	9
89502382 REMOVE EXISTING DOUBLE HANDHOLE	EACH	1
89502385 REMOVE EXISTING CONCRETE FOUNDATION	EACH	8
89502375 REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1

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DESIGNED - DSH	REVISED - 5-29-12 UPDATE
DRAWN - KAR	REVISED - 2-4-13 PER TRAFFIC
CHECKED - LDH	REVISED -
DATE - 12-13-10	FILE: 100153-W040-TS-RM-Crwy.dgn

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

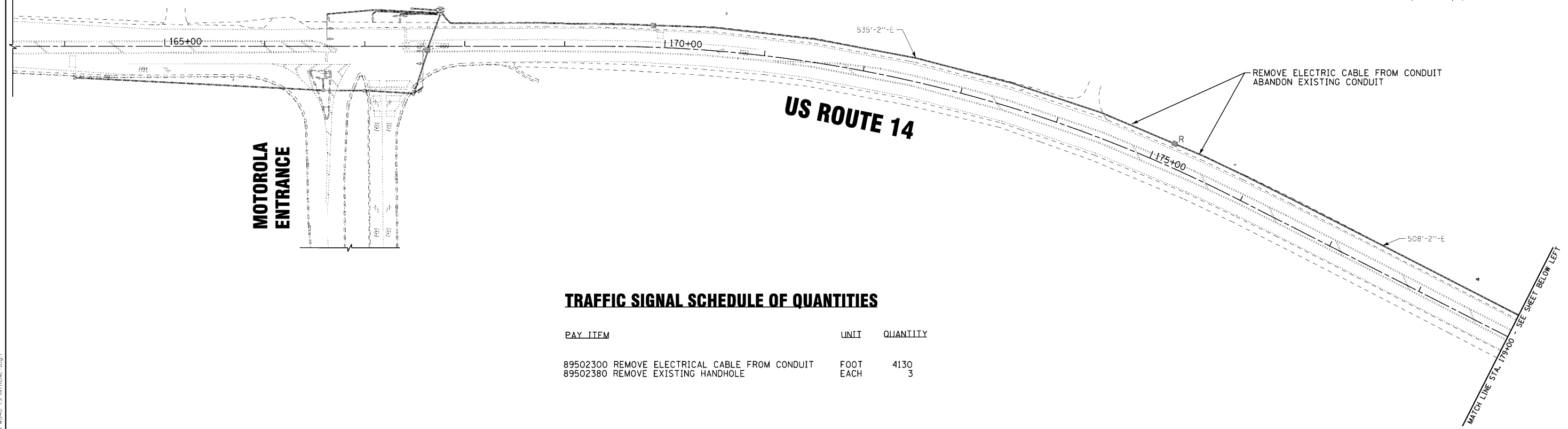
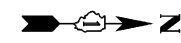
**US 14 AT CROWLEY ROAD  
EXISTING TRAFFIC SIGNAL REMOVAL PLAN**

SCALE: 1"=20'

STA. TO STA.

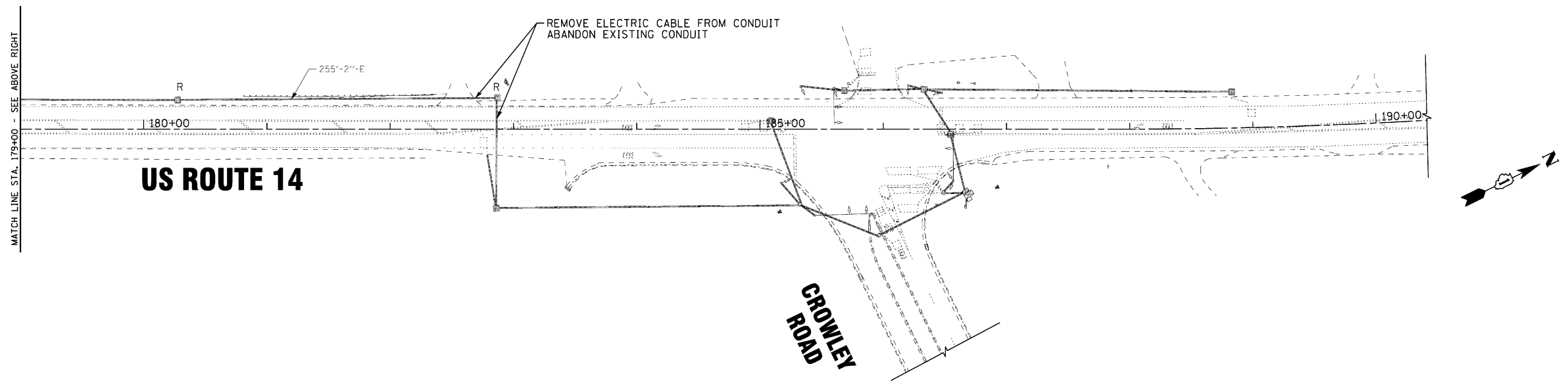
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
66	21-RS-3	McHENRY	32	21
C-91-297-11			CONTRACT NO. 60N27	
FED. ROAD DIST. NO. 1 ILLINOIS FED AID PROJECT				





**TRAFFIC SIGNAL SCHEDULE OF QUANTITIES**

PAY ITEM	UNIT	QUANTITY
89502300 REMOVE ELECTRICAL CABLE FROM CONDUIT	FOOT	4130
89502380 REMOVE EXISTING HANDHOLE	EACH	3



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CHECKED - LDH	REVISED -
DATE - 12-13-10	FILE: 100153-W040-TS-INTRCNCT.dgn

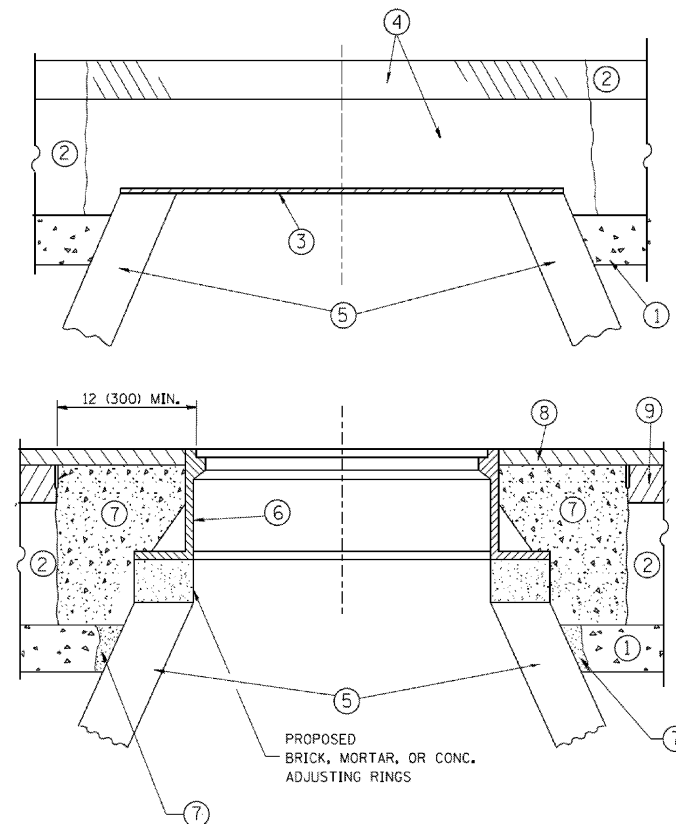
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**US ROUTE 14 FROM MOTOROLA ENTRANCE TO  
CROWLEY ROAD INTERCONNECT REMOVAL PLAN**

SCALE: 1"=50' STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
66	21-RS-3	McHENRY	32	22
C-91-297-11			CONTRACT NO. 60N27	
FED. ROAD DIST. NO. 1 ILLINOIS FED AID PROJECT				

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**NOTES:**

EXISTING BROKEN FRAMES AND LIDS SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR AND SHALL BE REPLACED AS DIRECTED BY THE ENGINEER. REPLACEMENT FRAMES AND LIDS WILL BE PAID FOR IN ACCORDANCE WITH ARTICLE 109.04 OF THE STANDARD SPECIFICATIONS UNLESS A SEPARATE PAY ITEM HAS BEEN PROVIDED.

IF THE EXISTING LIDS ARE OPEN, THE FRAME WILL BE ADJUSTED TO THE ELEVATION OF THE MILLED PAVEMENT SURFACE PRIOR TO THE MILLING OPERATION. THE FRAME WILL NOT BE REMOVED AND COVERED BY THE METAL PLATE.

CITY OF CHICAGO CASTINGS ARE THE PROPERTY OF THE CITY AND THE CONTRACTOR SHALL NOTIFY THE CITY FOR REMOVAL AND DISPOSITION OF THE CASTINGS.

THE METAL PLATE USED TO COVER THE STRUCTURE SHALL REMAIN THE PROPERTY OF THE CONTRACTOR.

WHEN STRUCTURES ARE TO BE ADJUSTED OR RECONSTRUCTED, THE LOWERING AND RAISING OF THE FRAMES AND LIDS WILL NOT BE PAID FOR SEPARATELY BUT WILL BE INCLUDED IN THE COST OF THE CORRESPONDING PAY ITEM.

**CONSTRUCTION PROCEDURES**

- STAGE 1 (BEFORE PAVEMENT MILLING)**
- A) REMOVE A MINIMUM OF 12 (300) OF THE PAVEMENT FROM AROUND THE STRUCTURE.
  - B) REMOVE THE EXISTING FRAME AND LID FROM THE STRUCTURE.
  - C) COVER THE STRUCTURE OPENING WITH A 36 (900) DIAMETER METAL PLATE.
  - D) BACKFILL WITH CRUSHED STONE AND A MINIMUM 1/2 (40) THICK HMA SURFACE MIX APPROVED BY THE ENGINEER.
- STAGE 2 (AFTER PAVEMENT MILLING)**
- A) REMOVE THE HMA SURFACE MIX AND CRUSHED STONE.
  - B) INSTALL THE FRAME AND LID; ADJUST THE FRAME TO ITS FINAL SURFACE ELEVATION.
  - C) THE SURROUNDING SPACE SHALL BE FILLED WITH CLASS PP-1\* CONCRETE TO THE ELEVATION OF THE SURFACE OF THE EXISTING BASE COURSE OR THE BINDER COURSE.
- \* UNLESS OTHERWISE SPECIFIED IN THE PLANS.

THE PROCEDURE EXPLAINED ABOVE SHALL CONFORM TO THE APPLICABLE PORTIONS OF SECTIONS 353, 406, 602, AND 603 OF THE STANDARD SPECIFICATIONS EXCEPT THAT THE CONTRACTOR SHALL ADJUST THE STRUCTURES TO THE FINISHED PAVEMENT ELEVATION NO MORE THAN 5 CALENDAR DAYS PRIOR TO PLACEMENT OF THE FINAL LIFT OF SURFACE UNLESS APPROVED BY THE ENGINEER."

**LEGEND**

- ① SUB-BASE GRANULAR MATERIAL
- ② EXISTING PAVEMENT
- ③ 36 (900) DIAMETER METAL PLATE
- ④ PROPOSED CRUSHED STONE AND HMA SURFACE MIX
- ⑤ EXISTING STRUCTURE
- ⑥ FRAME AND LID (SEE NOTES)
- ⑦ CLASS PP-1\* CONCRETE
- ⑧ PROPOSED HMA SURFACE COURSE
- ⑨ PROPOSED HMA BINDER COURSE

**LOCATION OF STRUCTURES:**

THE CONTRACTOR WILL BE REQUIRED TO KEEP A RECORD OF THE LOCATIONS OF THE BURIED STRUCTURES ACCORDING TO THE STATION AND DISTANCE LEFT OR RIGHT OF THE CENTERLINE OF PAVEMENT. UPON COMPLETION OF THE WORK, THE CONTRACTOR WILL DELIVER THE RECORD TO THE ENGINEER.

**BASIS OF PAYMENT:**

REMOVING FRAMES AND LIDS ON DRAINAGE AND UTILITY STRUCTURES IN THE PAVEMENT PRIOR TO MILLING, AND ADJUSTING TO FINAL GRADE PRIOR TO PLACING THE SURFACE COURSE, WILL BE PAID FOR AT THE CONTRACT UNIT PRICE EACH FOR "FRAMES AND LIDS TO BE ADJUSTED (SPECIAL)."

THIS WORK WILL NOT BE PAID FOR WHEN DRAINAGE AND UTILITY STRUCTURES ARE SPECIFIED FOR PAYMENT AS STRUCTURE RECONSTRUCTION.

NEW FRAMES AND LIDS, WHEN SPECIFIED, WILL BE PAID FOR SEPARATELY.

**DETAILS FOR FRAMES AND LIDS ADJUSTMENT WITH MILLING**

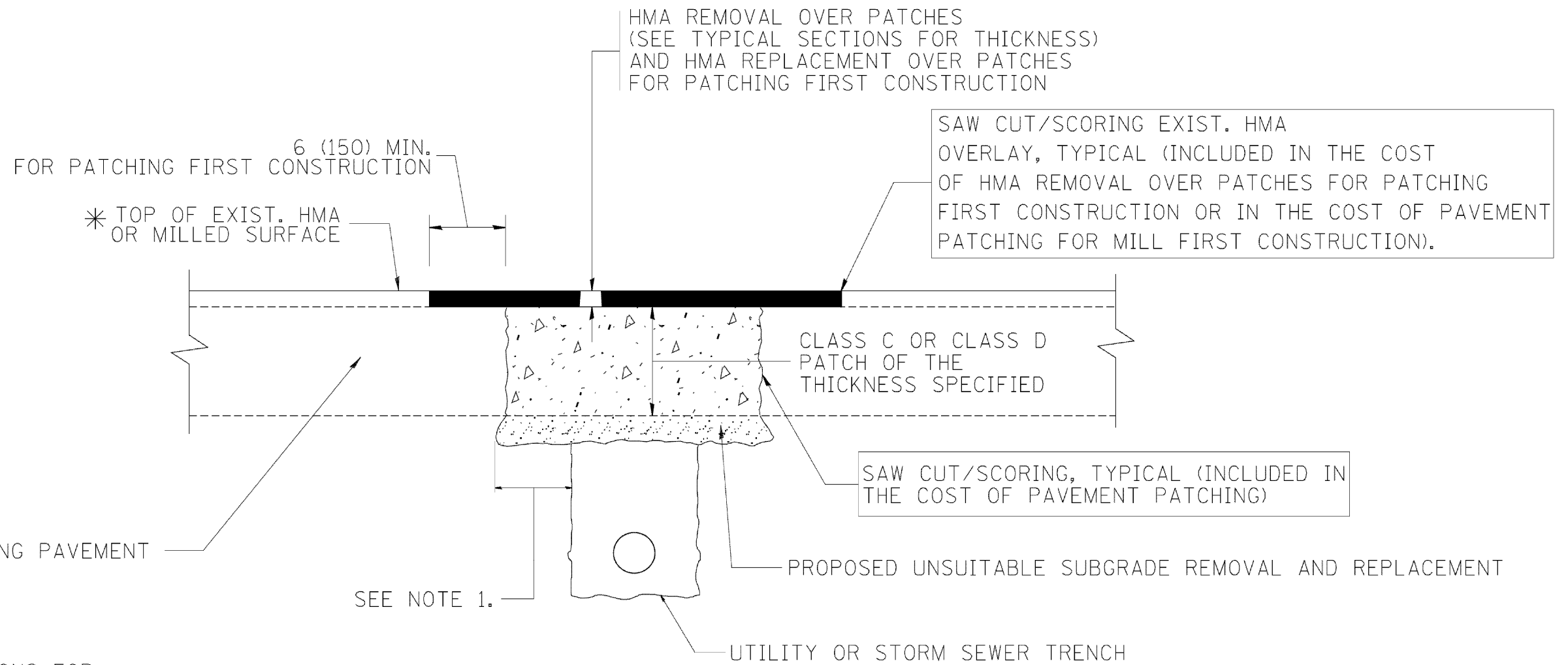
ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN

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ct:\p\work\p\w\dot\bauerdl\00108315\bd08...	gn	DRAWN -	REVISED - R. BORO 01-01-07
	PLOT SCALE = 1/648.5000 ' / m	CHECKED -	REVISED - R. BORO 03-09-11
	PLOT DATE = 12/6/2011	DATE - 10-25-94	REVISED - R. BORO 12-06-11

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

DETAILS FOR FRAMES AND LIDS ADJUSTMENT WITH MILLING			
SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
066	21-RS-3	MCHENRY	32	23
BD600-03 (BD-8)			CONTRACT NO. 60N27	
FED. ROAD DIST. NO. 1   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.

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FILE NAME = c:\projects\diststd22x34\ba22.dgn	USER NAME = bauerdl	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.
	PLOT SCALE = 50.000' / IN.	DRAWN -	REVISED - R. BORO 01-01-07		066	21-R5-3	MCHENRY	32	24			
	PLOT DATE = 10/27/2008	CHECKED -	REVISED - R. BORO 09-04-07		<b>BD400-04 (BD-22)</b>		<b>CONTRACT NO. 60N27</b>					
		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				

VARIABLE - TO MEET EXISTING DIMENSIONS AND FIELD CONDITIONS (SEE NOTE ②)

PROP. CONC. CURB OR CURB AND GUTTER REPLACEMENT IN ACCORDANCE WITH STATE STANDARD 606001. (SEE NOTE ②)

SAW CUT FULL DEPTH - INCLUDED IN THE COST OF SIDEWALK, DRIVEWAY OR MEDIAN SURFACE REMOVAL PAY ITEM.

SEE STATE STANDARD 606001

18" (450) MAX.

EXISTING OR PROPOSED HMA SURFACE (IF APPLICABLE)

1/4" (5) \*\*

EXISTING SIDEWALK, DRIVEWAY, MEDIAN SURFACE, SOD OR GROUND.

PROPOSED SIDEWALK, DRIVEWAY PAVEMENT, MEDIAN SURFACE OR SODDING SALT TOLERANT WITH TOP SOIL, 4" (100) SOD RESTORATION (SEE NOTE ①).

EXISTING CONCRETE PAVEMENT, CONCRETE BASE COURSE OR FLEXIBLE PAVEMENT

3" (75) MIN.

SUITABLE BACKFILL MATERIAL (INCLUDED IN THE COST OF CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT)

PROPOSED 3/4" (20) PREFORMED EXPANSION JOINT AT CONCRETE SIDEWALKS, DRIVEWAYS, AND MEDIANS. (INCLUDED IN THE COST OF CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT.)

UNSUITABLE SUB-BASE MATERIAL TO BE REMOVED, IF DIRECTED BY THE ENGINEER, SHALL BE REPLACED WITH EITHER SUB-BASE GRANULAR MATERIAL, TYPE B OR ADDITIONAL THICKNESS OF CONCRETE.

REMOVAL AND REPLACEMENT 4" (100) OR LESS IS INCLUDED IN THE COST OF CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT.

REMOVAL AND REPLACEMENT IN EXCESS OF 4" (100) WILL BE PAID FOR IN ACCORDANCE WITH ARTICLE 109.04 OF THE STANDARD SPECIFICATIONS.

PROPOSED #6 (20) EPOXY COATED TIE BARS 24" (600) LONG AT 24" (600) CENTERS WILL NOT BE PAID FOR SEPARATELY. DELETE EPOXY COATED TIE BARS IF EXISTING TIE BARS ARE USUABLE AS DETERMINED BY THE ENGINEER. (SEE NOTE ③).

**BASIS OF PAYMENT:**

THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER FOOT (METER) FOR "CURB REMOVAL AND REPLACEMENT" OR "COMBINATION CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT".

\* 3" (75) MINIMUM FROM TOP AND BOTTOM OF THE CONCRETE PAVEMENT OR BASE COURSE.

\*\* IF THE FINAL SURFACE OF THE PAVEMENT IS CONCRETE, THE GUTTER IS TO BE FLUSH WITH THE PAVEMENT.

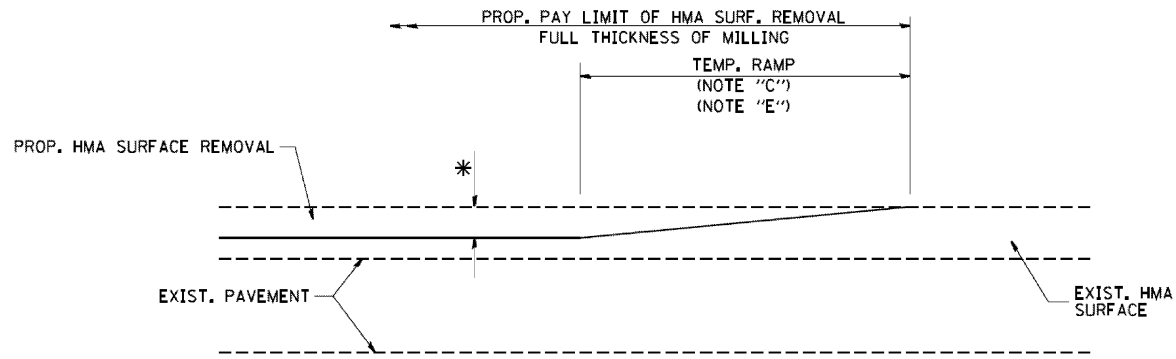
- NOTE: ① SIDEWALK, DRIVEWAY PAVEMENT OR MEDIAN SURFACE SHALL BE SIMILAR TO THE MATERIAL BEING REMOVED AND WILL BE PAID FOR SEPARATELY.  
SODDING, SALT TOLERANT AND TOP SOIL, FURNISH AND PLACE 4" WILL BE PAID FOR SEPARATELY.
- ② FERTILIZER FOR THE PLACEMENT OF THE SOD IS NOT REQUIRED
- ③ CURB OR CURB AND GUTTER REPLACEMENT SHALL MATCH THE SHAPE OF THE EXISTING CURB OR CURB AND GUTTER UNLESS OTHERWISE SPECIFIED.
- ④ FOR CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT ADJACENT TO FLEXIBLE PAVEMENT DELETE EPOXY COATED TIE BARS.
- ⑤ LONGITUDINAL BARS, IF ENCOUNTERED IN THE EXISTING CURB OR CURB AND GUTTER, ARE NOT TO BE REPLACED. CUTTING AND REMOVING LONGITUDINAL BARS SHALL BE INCLUDED IN THE COST OF CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT.
- ⑥ THE COST OF HMA SURFACE REMOVAL IN THE EXISTING GUTTER FLAG SHALL BE INCLUDED IN THE COST OF THE CURB AND GUTTER REMOVAL AND REPLACEMENT.
- ⑦ THE REMOVAL AND REPLACEMENT OF THE EXISTING CURB OR CURB AND GUTTER SHALL BE DONE IN ACCORDANCE WITH THE APPLICABLE PORTIONS OF SECTION 440 AND 606 OF THE STANDARD SPECIFICATIONS.
- ⑧ THE LOCATIONS OF REMOVAL AND REPLACEMENT OF EXISTING CURB OR CURB AND GUTTER SHALL BE DETERMINED BY THE RESIDENT ENGINEER AT THE TIME OF CONSTRUCTION.

# CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT

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

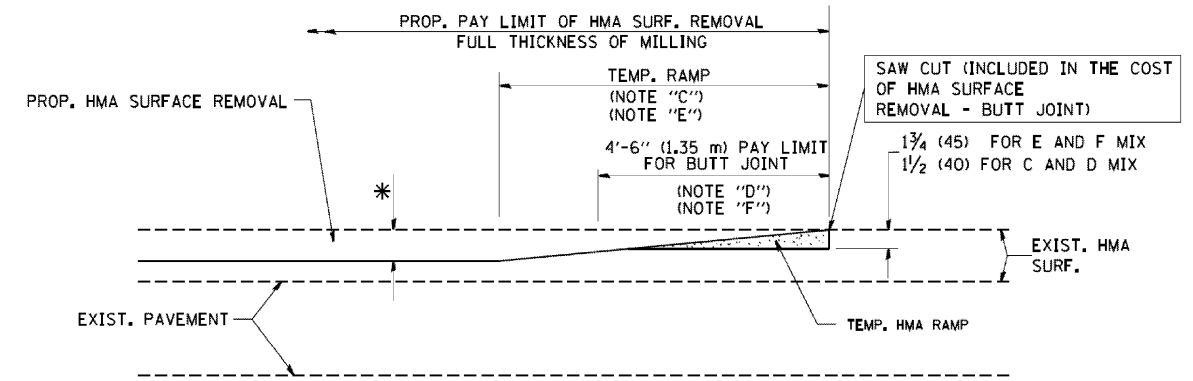
COPYRIGHT © 2011 BY BAXTER & WOODMAN, INC. ALL RIGHTS RESERVED. ILLINOIS LICENSE NO. 187-000233. EXPIRES 4/30/2013. I:\C:\yattell\eng\A\DOT\DOT\0053-40-Design\WD-19 US 14 Diagne to Stereo Line Rev\CADD-SURVEY\DRAWINGS\DCNS\DISTRICT ONE DETAILS - BD.dgn 2/4/2013 2:49:26 PM

FILE NAME =	USER NAME = drsvakosgn	DESIGNED - A. HOUSEH	REVISED - R. SHAH 10-03-96	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT</b>		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
ei:\pw_work\pwidot\drsvakosgn\d0108315\bd24.dgn	DRAWN -	REVISOR - A. ABBAS 03-21-97	REVISOR - M. GOMEZ 01-22-01		066	21-RS-3	McHENRY	32	25		
PLOT SCALE = 50.000 ' / IN.	CHECKED -	REVISOR - R. BORO 12-15-09			<b>BD600-06 (BD-24)</b>		CONTRACT NO. 60N27				
PLOT DATE = 12/15/2009	DATE - 03-11-94				SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA. TO STA.	FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			



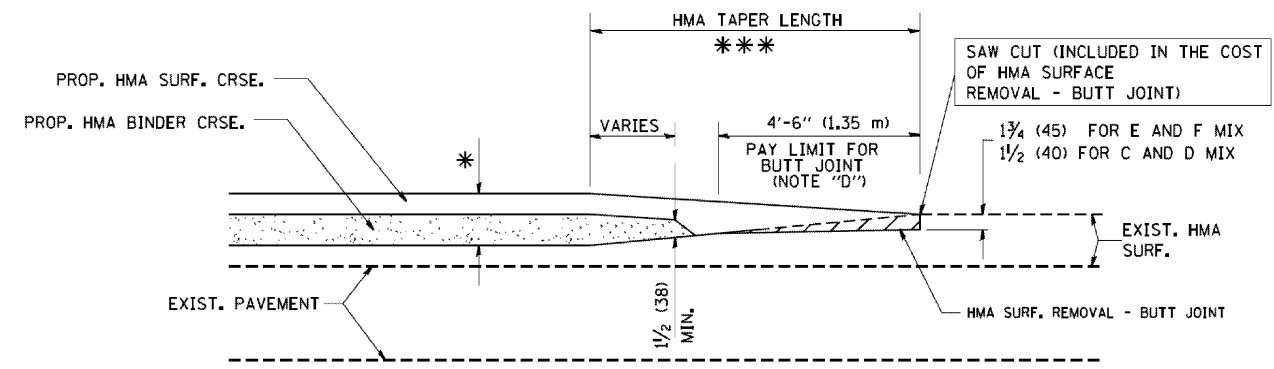
MILLED TEMPORARY RAMP  
(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

**OPTION 1**



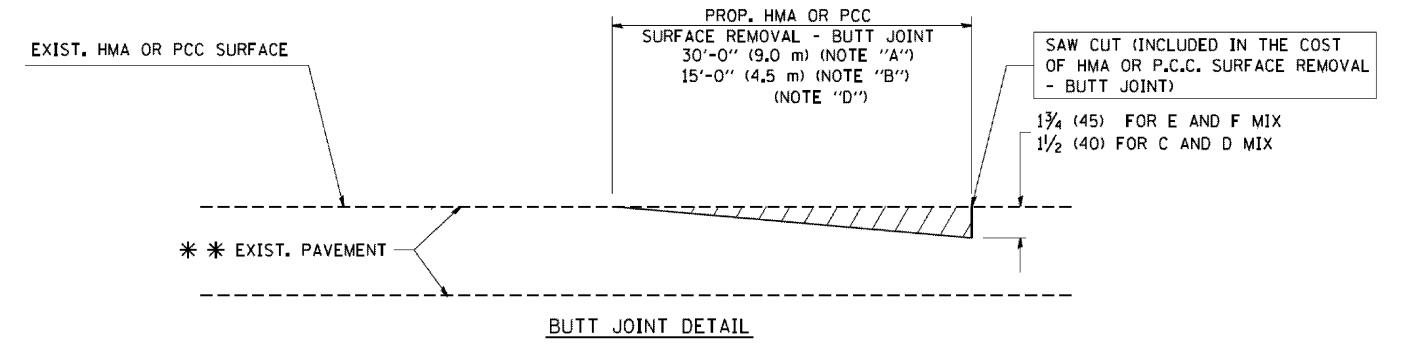
HMA CONSTRUCTED TEMPORARY RAMP  
(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

**OPTION 2**  
**TYPICAL TEMPORARY RAMP**

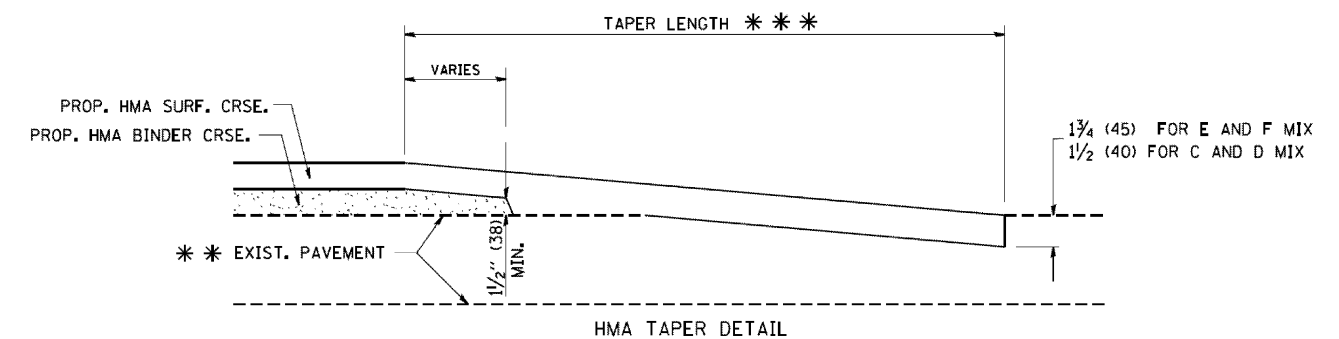


BUTT JOINT AND HMA TAPER

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



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.

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	PLOT SCALE = 50.0000' / IN.	DRAWN -	REVISED - A. ABBAS 03-21-97
	PLOT DATE = 1/4/2008	CHECKED -	REVISED - M. GOMEZ 04-06-01
		DATE - 06-13-90	REVISED - R. BORO 01-01-07

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>BUTT JOINT AND HMA TAPER DETAILS</b>		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	066	21-RS-3	MCHENRY	32	26
		<b>BD400-05 BD32</b>		CONTRACT NO. 60N27		
		FED. ROAD DIST. NO. 1   ILLINOIS FED. AID PROJECT				

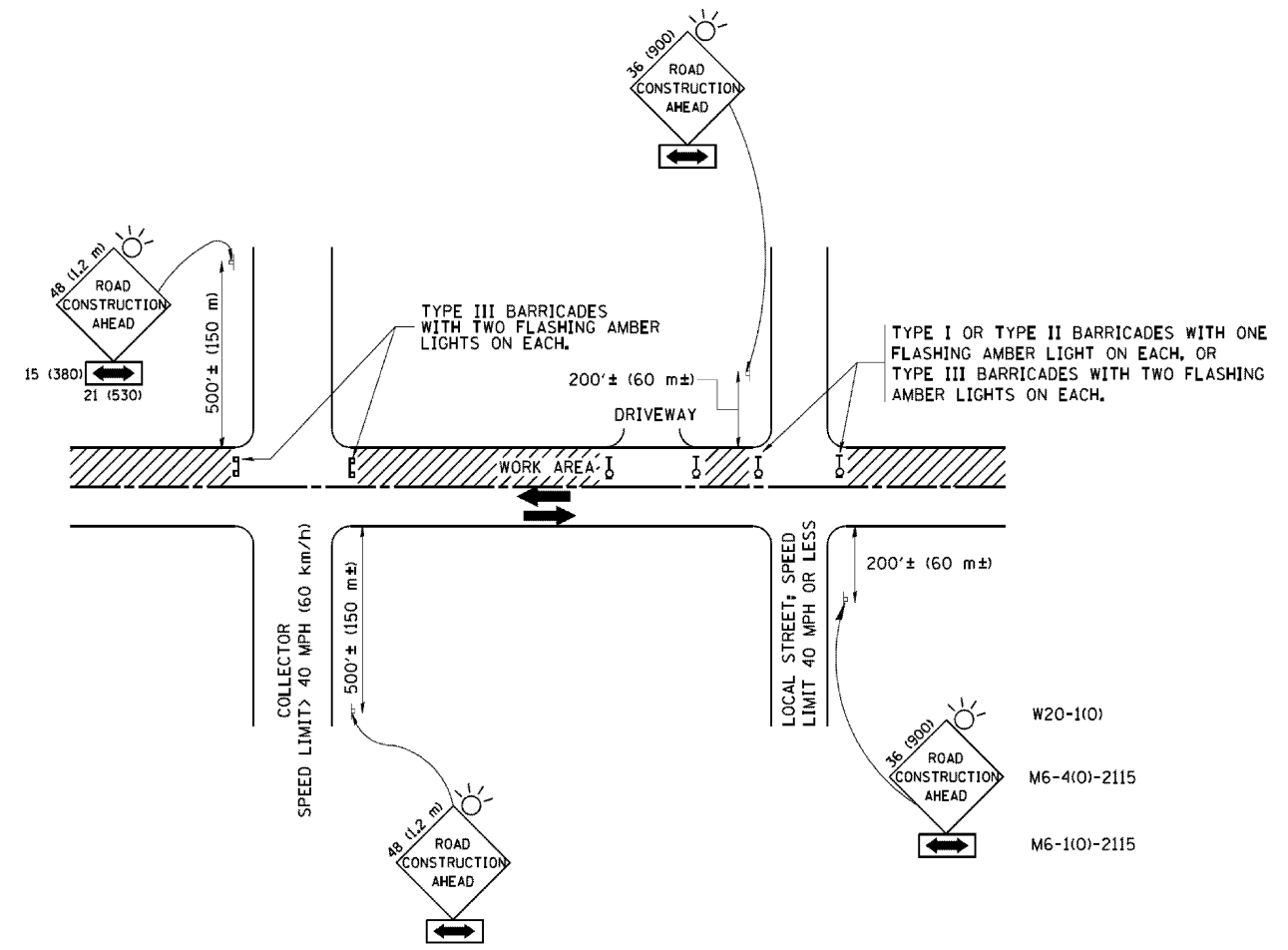
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	PLOT DATE = 1/4/2008	CHECKED -	REVISED - A. HOUSEH 10-15-96
		DATE - 06-89	REVISED - T. RAMMACHER 01-06-00

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS			
SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
066	21-RS-3	MCHENRY	32	27
TC-10		CONTRACT NO.	60N27	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



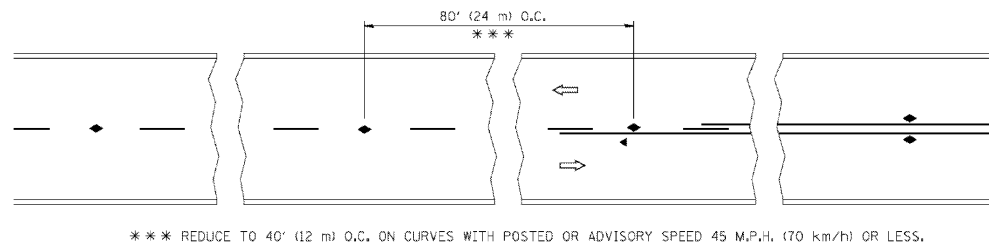
**TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS**

**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:
      - a) 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:
      - 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) 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 (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:
 

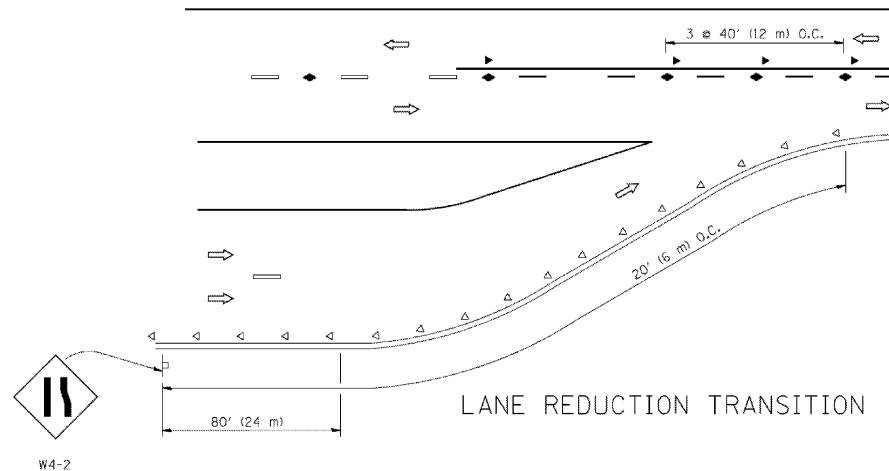
USE APPLICABLE PORTIONS OF THE TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES (STD. 701501, STD. 701606 OR THE APPROPRIATE STANDARD). THE SPACING OF SIGNS AND BARRICADES SHALL BE ADJUSTED FOR FIELD CONDITIONS AS DIRECTED BY THE ENGINEER. THE DIRECTIONAL ARROW SHALL BE COVERED OR REMOVED WHEN NO LONGER 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.

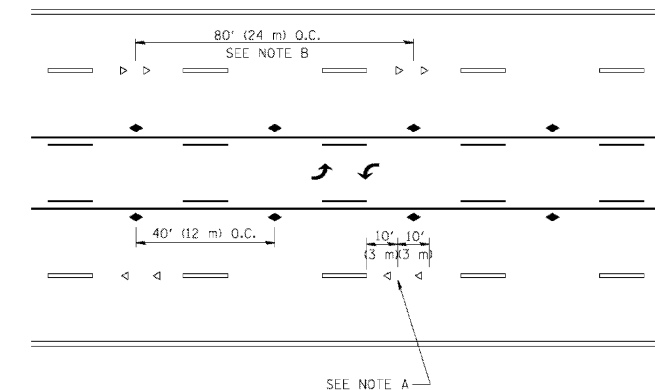


\*\*\* REDUCE TO 40' (12 m) O.C. ON CURVES WITH POSTED OR ADVISORY SPEED 45 M.P.H. (70 km/h) OR LESS.

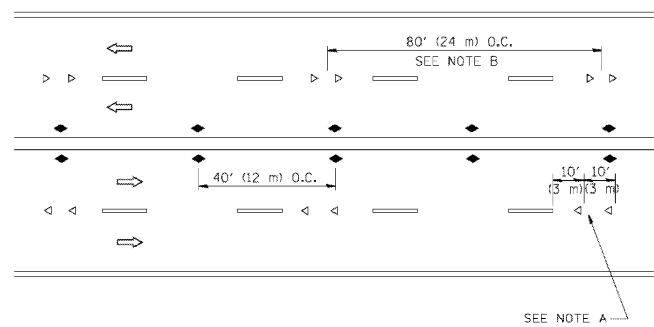
TWO-LANE/TWO-WAY



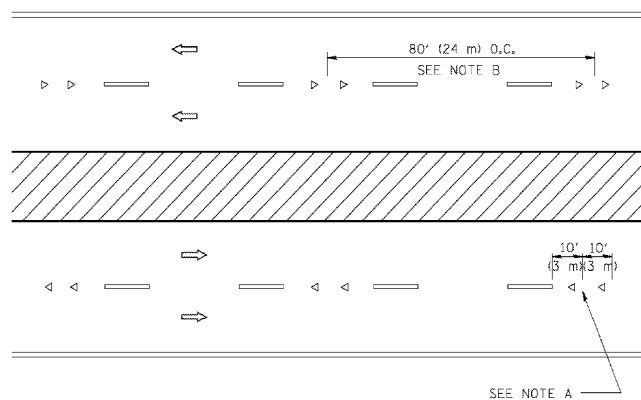
LANE REDUCTION TRANSITION



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

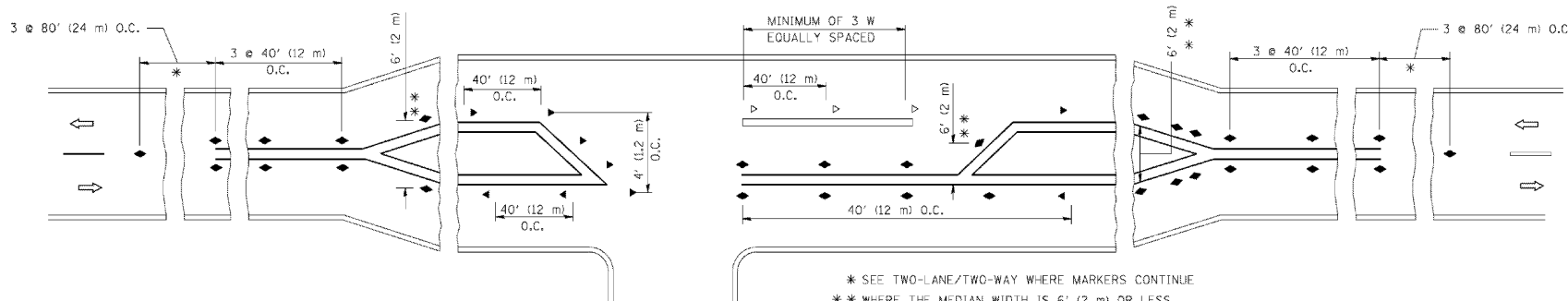
- YELLOW STRIPE
- WHITE STRIPE
- ◀ ONE-WAY AMBER MARKER
- ◀ ONE-WAY CRYSTAL MARKER (W/O)
- ◆ TWO-WAY AMBER MARKER

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 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 BE INVOLVED.



LEFT TURN

\* 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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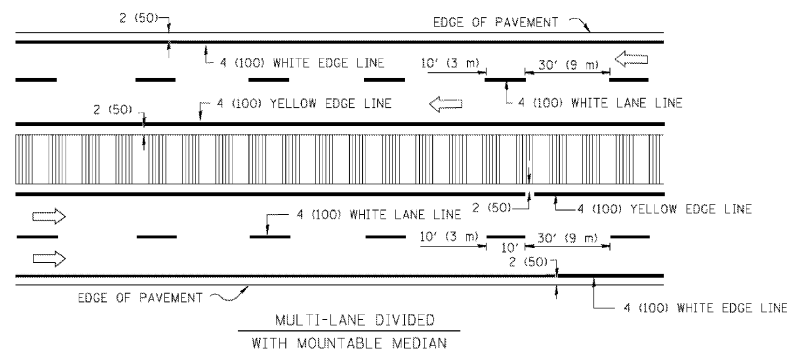
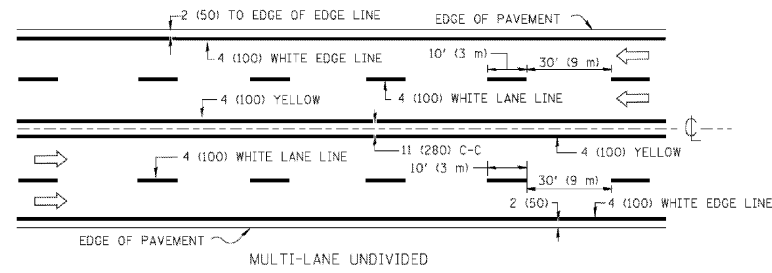
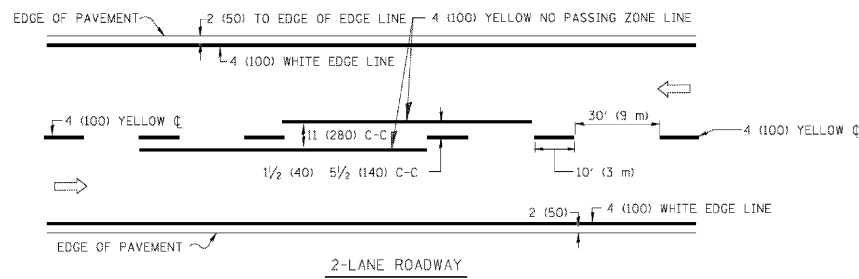
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STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

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

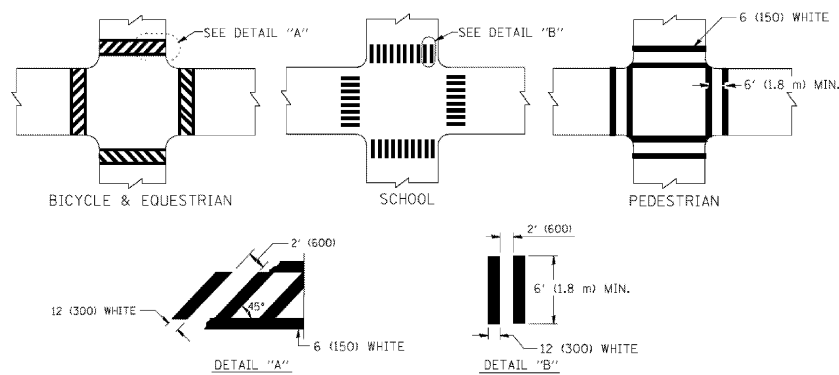
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			TC-11		CONTRACT NO. 60N27		
			FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



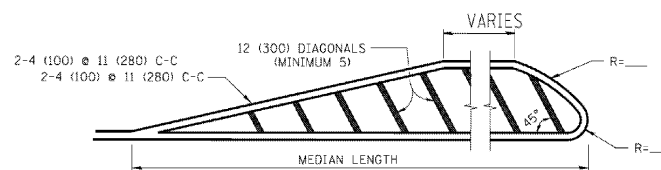
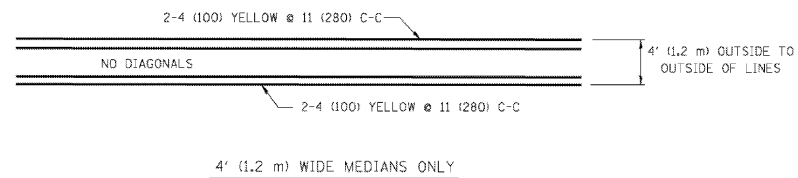


NOTE: MEDIANS WITH BARRIER CURB DO NOT REQUIRE AN EDGE LINE

### TYPICAL LANE AND EDGE LINE MARKING

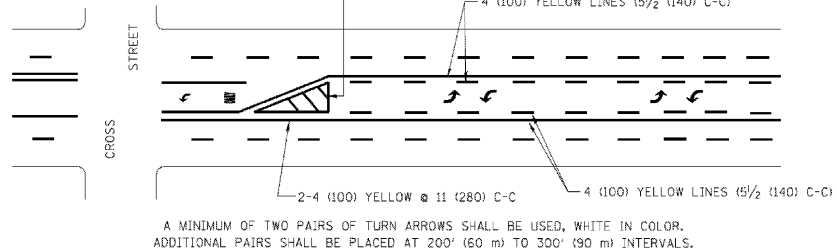


### TYPICAL CROSSWALK MARKING

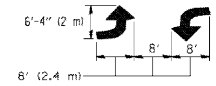


FOR MEDIAN LENGTHS WHERE DIAGONAL SPACING CANNOT BE ATTAINED, USE 5 (FIVE) EQUALLY SPACED DIAGONAL LINES.  
 DIAGONAL LINE SPACING: 50' (15 m) C-C (LESS THAN 30MPH (50 km/h))  
 75' (25 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h)  
 150' (45 m) C-C (MORE THAN 45MPH (70 km/h))

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

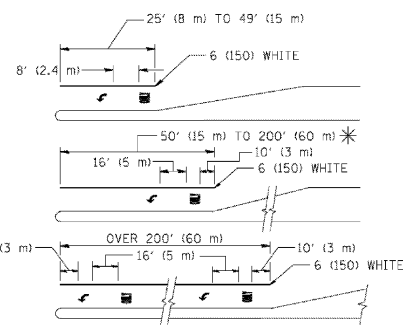


A MINIMUM OF TWO PAIRS OF TURN ARROWS SHALL BE USED, WHITE IN COLOR. ADDITIONAL PAIRS SHALL BE PLACED AT 200' (60 m) TO 300' (90 m) INTERVALS.



### MEDIAN WITH TWO-WAY LEFT TURN LANE

### TYPICAL PAINTED MEDIAN MARKING

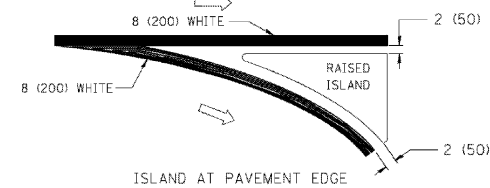
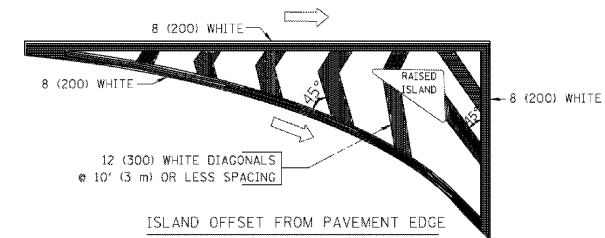


FULL SIZE LETTERS 8' (2.4 m) AND ARROWS SHALL BE USED.  
 AREA = 15.6 SQ. FT. (1.5 m<sup>2</sup>) ONLY AREA = 20.8 SQ. FT. (1.9 m<sup>2</sup>)

\* 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".

### TYPICAL LEFT (OR RIGHT) TURN LANE

### TYPICAL TURN LANE MARKING



### 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 1/2 (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 1/2 (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" IS 6' (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	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.

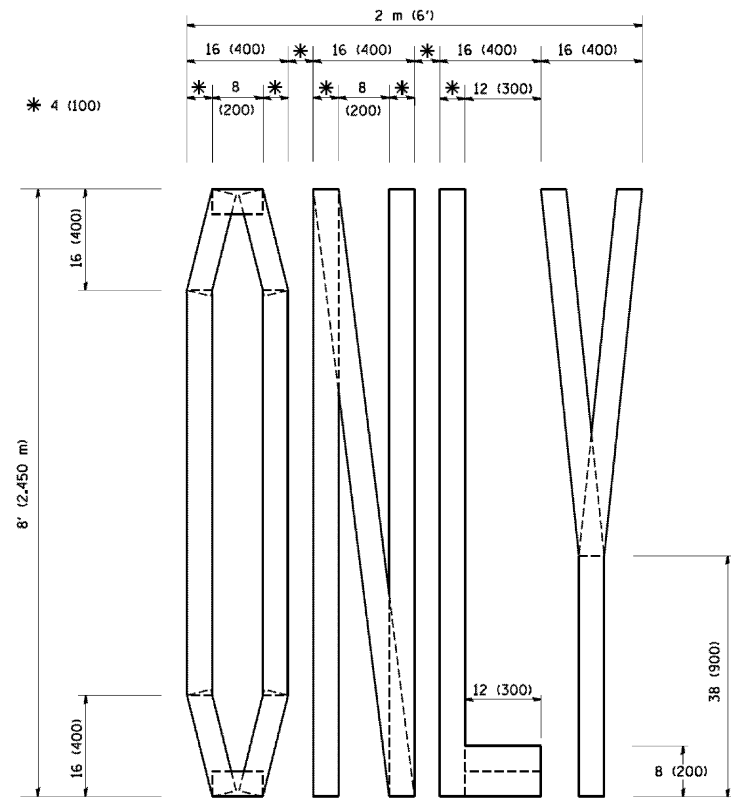
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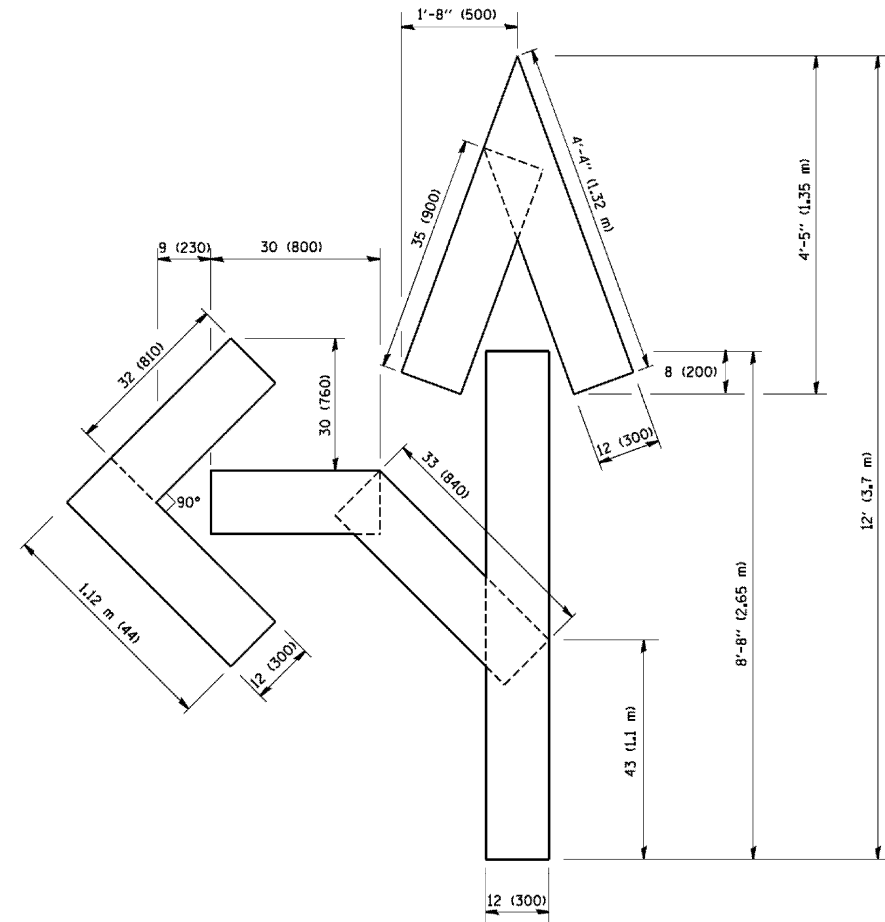
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## STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

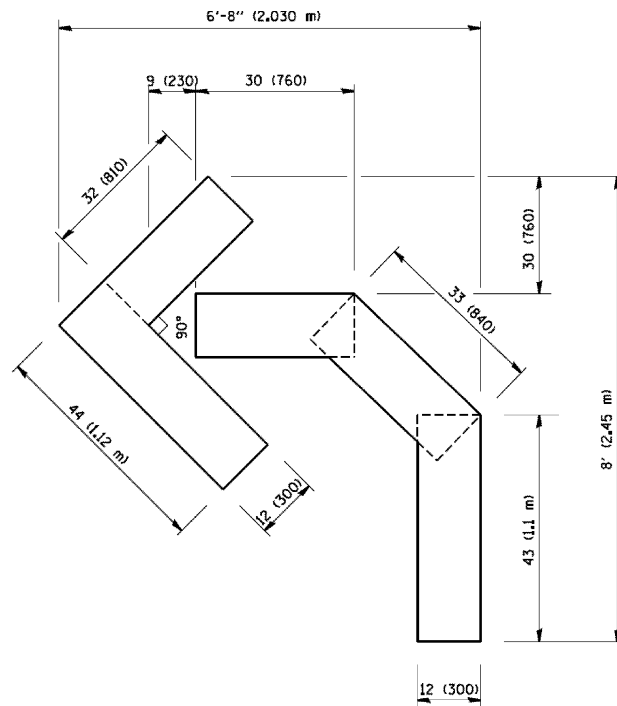
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TYPICAL PAVEMENT MARKINGS		066	21-RS-3	McHENRY	32	29
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SHEET NO. 1 OF 1 SHEETS		FED. ROAD DIST. NO. 1 ILLINOIS/FED. AID PROJECT		STA. TO STA.		



QUANTITY  
 4 (100) LINE = 64.1 ft. (19.7 m)  
 21.1 sq. ft. (1.97 sq. m)



QUANTITY  
 4 (100) LINE = 82.5 ft. (25.3 m)  
 27.5 sq. ft. (2.53 sq. m)



QUANTITY  
 4 (100) LINE = 45.5 ft. (13.9 m)  
 15.2 sq. ft. (1.39 sq. m)

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 LICENSE NO. 189-00021 EXP. 03/31/2013  
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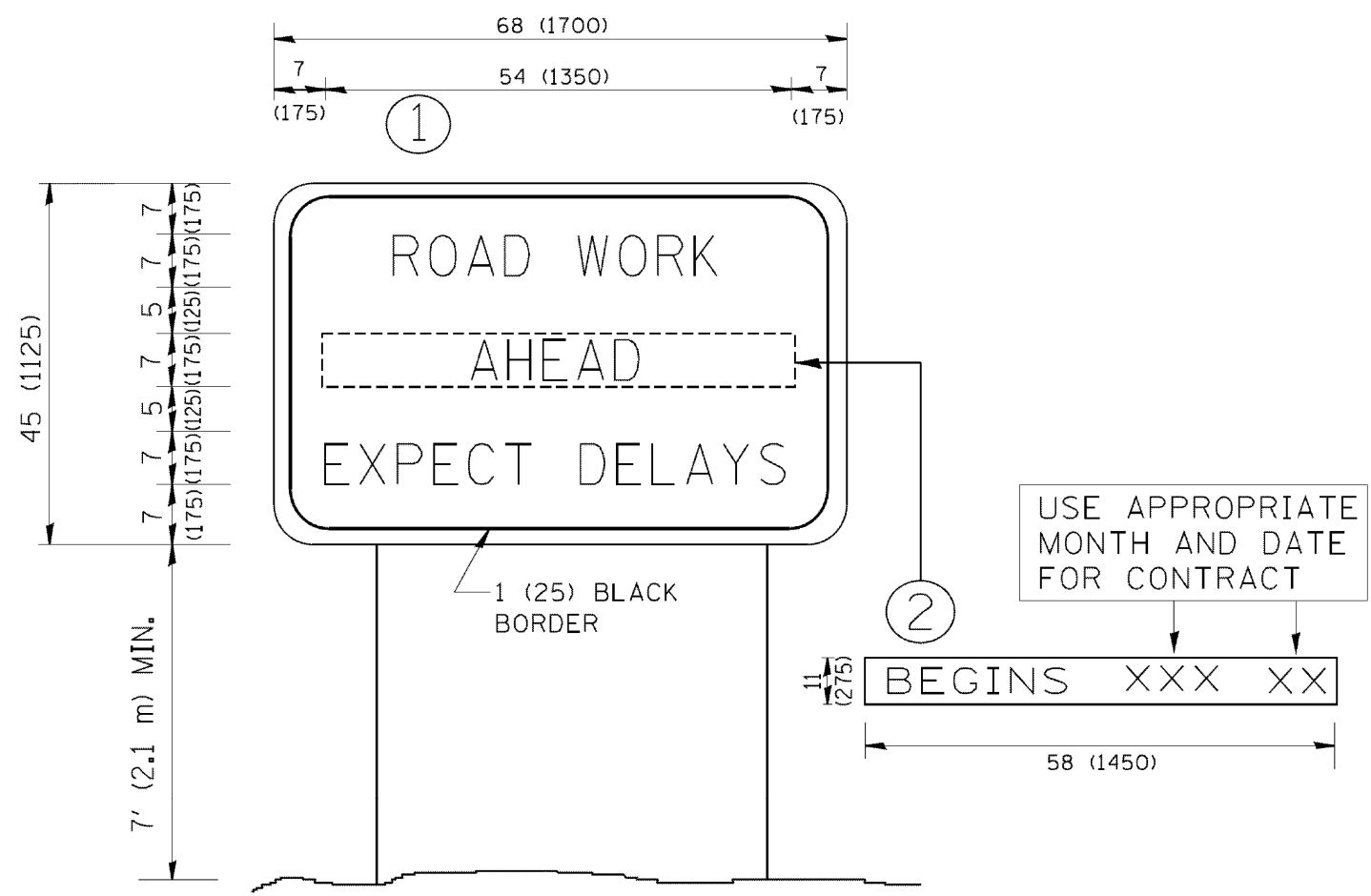
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	PLOT DATE = 1/4/2008	CHECKED -	REVISED -T, RAMMACHER 03-02-98
		DATE - 09-18-94	REVISED -E. GOMEZ 08-28-00

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

PAVEMENT MARKING LETTERS AND SYMBOLS FOR TRAFFIC STAGING			
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS
066	21-RS-3	MCHENRY	32
<b>TC-16</b>		<b>CONTRACT NO.</b>	60N27
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			

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

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**NOTES:**

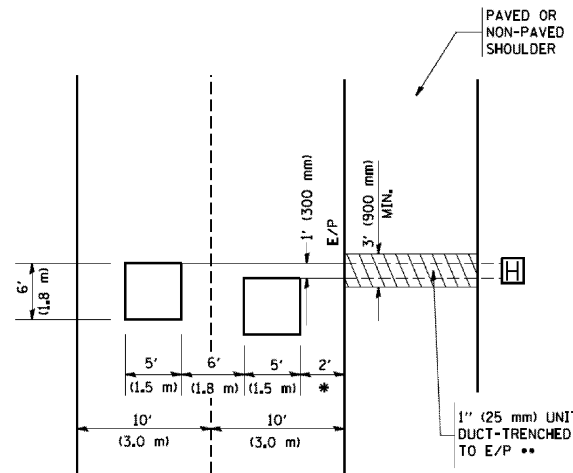
1. USE BLACK LETTERING ON ORANGE BACKGROUND.
2. ERECT SIGNS IN ADVANCE OF THE LOCATION FOR THE "ROAD CONSTRUCTION AHEAD" SIGN AT LOCATIONS AS DIRECTED BY THE ENGINEER.
3. ERECT SIGN ① WITH INSTALLED PANEL ② ONE WEEK PRIOR TO THE START OF CONSTRUCTION.
4. REMOVE PANEL ② SOON AFTER THE START OF CONSTRUCTION.
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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		DATE -	REVISED - C. JUCLUS 01-31-07		FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT							

**LOOPS NEXT TO SHOULDERS**

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



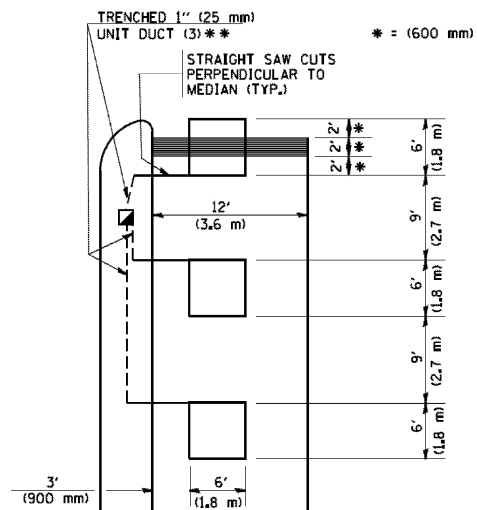
\* = (600 mm)

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

**LEFT TURN LANES WITH MEDIANS  
VOLUME DENSITY ("FAR OUT" DETECTION)  
ON SAME APPROACH**

(PROTECTED / PERMITTED LEFT TURN PHASING)

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

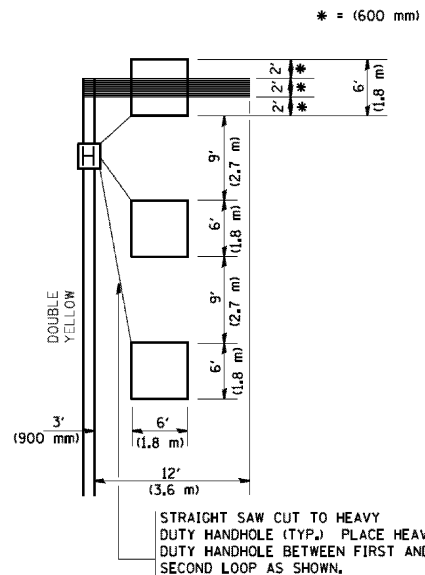


\*\* UNIT DUCT IS TO BE SHOWN ON PLAN SHEETS  
BUT SHALL NOT BE INCLUDED IN THE PAY ITEMS.

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

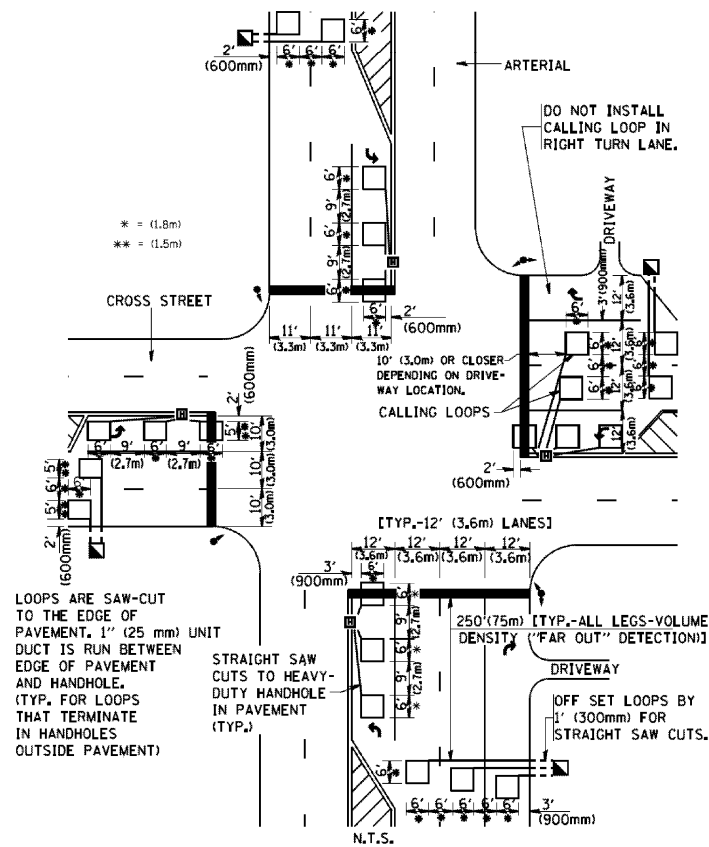
**LEFT TURN LANES WITHOUT MEDIANS  
VOLUME DENSITY ("FAR OUT" DETECTION)  
ON SAME APPROACH**

(PROTECTED / PERMITTED LEFT TURN PHASING)



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

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

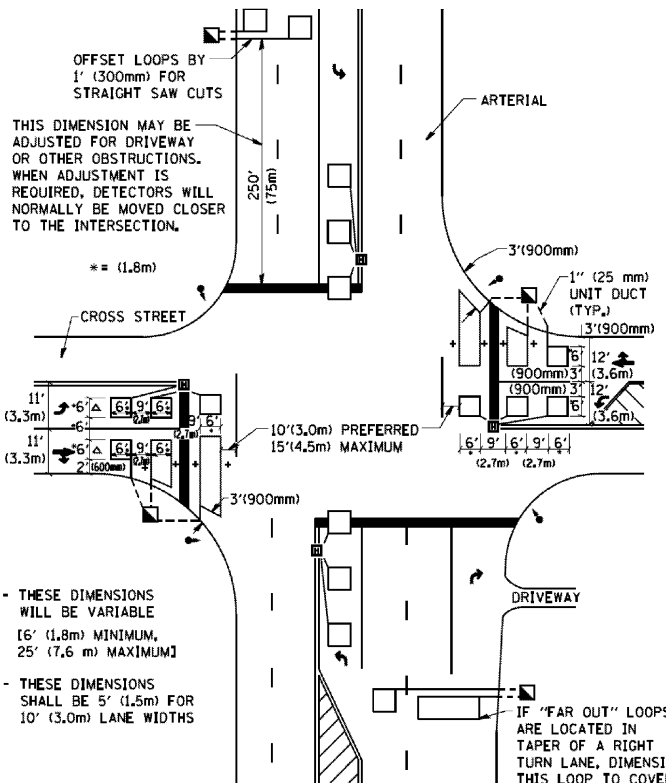


LOOPS ARE SAW-CUT  
TO THE EDGE OF  
PAVEMENT. 1" (25 mm) UNIT  
DUCT IS RUN BETWEEN  
EDGE OF PAVEMENT  
AND HANDHOLE.  
(TYP. FOR LOOPS  
THAT TERMINATE  
IN HANDHOLES  
OUTSIDE PAVEMENT)

STRAIGHT SAW CUTS TO HEAVY-  
DUTY HANDHOLE  
IN PAVEMENT  
(TYP.)

**DETAIL 1**  
N.T.S.

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



--- THESE DIMENSIONS  
WILL BE VARIABLE  
[6' (1.8m) MINIMUM,  
25' (7.6 m) MAXIMUM]

△ THESE DIMENSIONS  
SHALL BE 5' (1.5m) FOR  
10' (3.0m) LANE WIDTHS

**DETAIL 2**  
N.T.S.

**NOTES:**

**VEHICLES LOOP DETECTORS**

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

**PLACEMENT OF DETECTORS**

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

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

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

**NOTE:**

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

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

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PLOT DATE = 1/4/2008

DESIGNED -  
DRAWN -  
CHECKED - R.K.F.  
DATE -

REVISED -  
REVISED -  
REVISED -  
REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**DISTRICT 1 - DETECTOR LOOP INSTALLATION  
DETAILS FOR ROADWAY RESURFACING**

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
066	21-RS-3	McHENRY	32	32
TS-07			CONTRACT NO. 60N27	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				