

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
870	534 RS-3	WILL	41	1
FED. ROAD DIST. NO. 1	ILLINOIS	CONTRACT NO. 60E08		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

**PROPOSED
HIGHWAY PLANS**

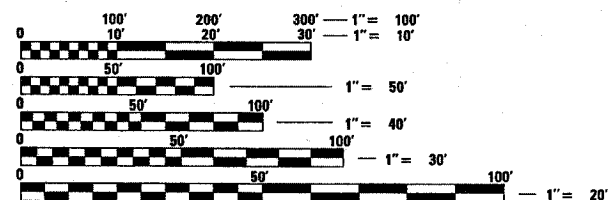
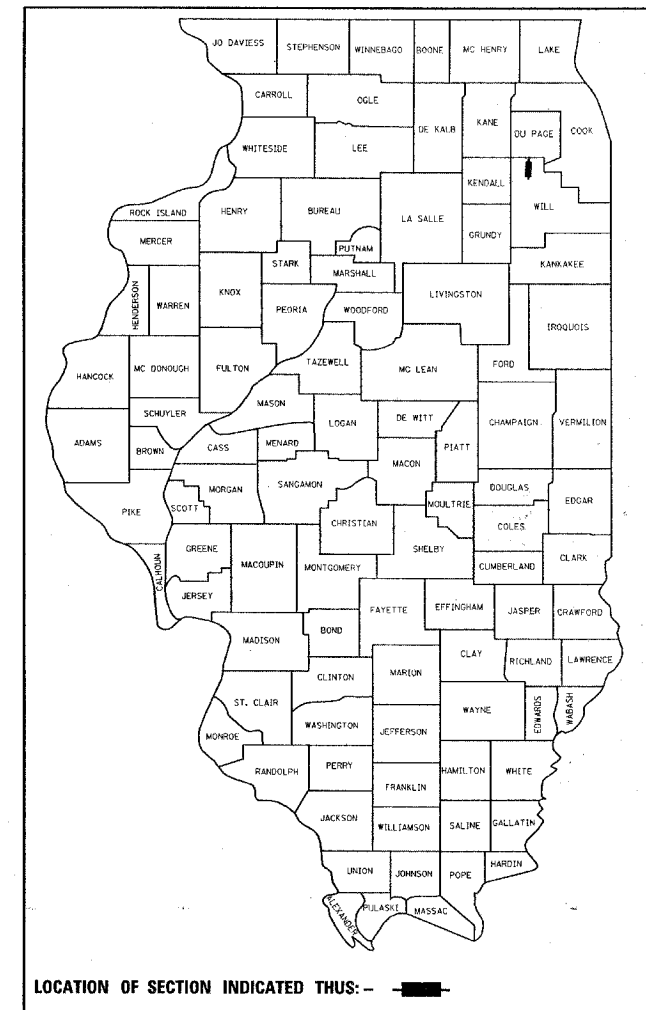
F.A.P. ROUTE 870: ILL 53 (BOLINGBROOK DRIVE)
JOLIET RD. TO DUPAGE CO. LINE
SECTION: 534 RS-3
RESURFACING (MAINTENANCE)

FOR INDEX OF SHEETS, SEE SHEET NO.

PROJECT IS LOCATED IN THE VILLAGES
OF BOLINGBROOK AND ROMEOVILLE

WILL COUNTY
C-91-169-08

D-91-169-08



FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD
ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT
CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS
ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

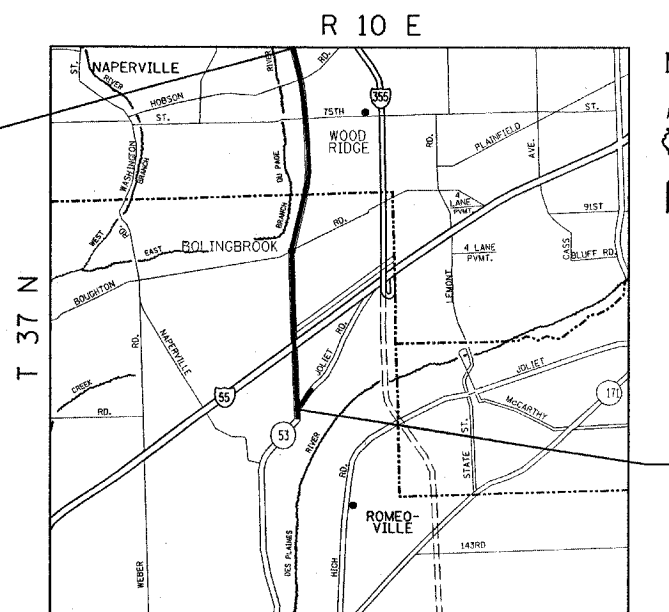
J.U.L.I.E.
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION
1-800-892-0123
OR 811

PROJECT ENGINEER: ANA ABREU
PROJECT MANAGER: KEN ENG

CONTRACT NO. 60E08

PROJECT ENDS
STA. 272+53

OMISSIONS:
STA. 100+96 TO 117+49
STA. 196+45 TO 210+58



DUPAGE TOWNSHIP

TRAFFIC DATA
SPEED LIMIT: 40 MPH
2005 ADT: 35,700

PROJECT BEGINS
STA. 46+98

GROSS LENGTH OF PROJECT = 22,555 FEET (4.27 MILES)
NET LENGTH OF PROJECT = 19,489 FEET (3.69 MILES)

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED FEBRUARY 15, 20 08

Diana M. O'Keefe 96
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

May 9, 20 08
Eric E. Harn
INTERIM ENGINEER OF DESIGN AND ENVIRONMENT

May 9, 20 08
Christine M. Reed
DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS

INDEX OF SHEETS

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4-8	TYPICAL SECTIONS
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STATE STANDARDS

000001-05	STANDARD SYMBOLS, ABBREVIATIONS, AND PATTERNS
442201-03	CLASS C AND D PATCHES
606001-03	CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB & GUTTER
701601-05	URBAN LANE CLOSURE, MULTILANE, 1W OR 2W WITH NONTRAVERSABLE MEDIAN
701606-05	URBAN LANE CLOSURE, MULTILANE, 2W WITH MOUNTABLE MEDIAN
701701-05	URBAN LANE CLOSURE, MULTILANE INTERSECTION
701901	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 THE VILLAGE OF BOLINGBROOK.

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

BARRICADES: THE CONTRACTOR SHALL PROVIDE AND INSTALL TWO (2) WEIGHTED SANDBAGS ON EACH TYPE I, TYPE II OR TYPE III BARRICADE USED- ONE (1) WEIGHTED SAND BAG ACROSS EACH BOTTOM RAIL.

ALL HOT-MIX ASPHALT PAVEMENT PATCHING SHALL BE CLASS D.

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 (40MM) WHERE THE SPEED LIMIT IS 45 MPH (80KM/H) OR LESS AND 1 INCH (25 MM) WHERE THE SPEED LIMIT IS GREATER THAN 45 MPH (80 KM/H), WITH WRITTEN APPROVAL FROM 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).

10 FEET (3 METER) TRANSITION SHALL BE USED TO MATCH PROPOSED CURB AND GUTTER TO EXISTING CURB AND GUTTERS IN THE FIELD, UNLESS OTHERWISE SHOWN. THE TRANSITION SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE FOR THE PROPOSED ITEMS OF WORK SPECIFIED.

THE RESIDENT ENGINEER SHALL VERIFY THE LOCATIONS OF ALL EXISTING PAVEMENT MARKINGS PRIOR TO MILLING OR RESURFACING.

ALL PAVEMENT MARKINGS SHALL BE PLACED THROUGHOUT THE IMPROVEMENT ACCORDING TO DISTRICT 1 TYPICAL PAVEMENT MARKING.

THE RESIDENT ENGINEER SHALL CONTACT MS. CORA MATHIS, AREA TRAFFIC FIELD ENGINEER AT (815) 485-6475 (OFFICE) OR (847) 715-8428 (CELL), A MINIMUM OF 2 WEEKS PRIOR TO PLACEMENT OF PERMANENT PAVEMENT MARKINGS.

RAISED REFLECTIVE PAVEMENT MARKERS SHALL BE PLACED THROUGHOUT THE IMPROVEMENT ACCORDING TO THE DISTRICT STANDARDS AS NOTED IN THE DETAIL.

THE UNIT WEIGHT (CONVERSION FACTOR) QUOTED IS FOR THE ESTIMATING PLAN QUANTITIES ONLY. ACTUAL QUANTITIES TO FULFILL CONTRACT REQUIREMENTS WILL BE DETERMINED BASED ON UNIT WEIGHT OF APPROVED MIX DESIGN, PLAN DIMENSIONS, AND DENSITY LIMITATIONS. MAXIMUM PAYMENT WILL BE COMPUTED BASED ON WEIGHT AVERAGE DENSITIES OF THE IN-PLACE MIXTURE.

THE CONTRACTOR SHALL CONTACT THE DISTRICT ONE ARTERIAL TRAFFIC CONTROL SUPERVISOR A MINIMUM OF 72 HOURS PRIOR TO BEGINNING WORK.

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		DRAWN -	REVISED -		INDEX OF SHEETS STATE STANDARDS AND GENERAL NOTES			870	534 RS-3	WILL	41	2	
		PLOT SCALE = 50.0000' / IN.	CHECKED -		REVISED -	SCALE: 1" = 50'	SHEET NO.	OF	SHEETS	STA.	TO STA.	CONTRACT NO. 60E08	
		PLOT DATE = 2/28/2008	DATE -		REVISED -	<small>FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT</small>							

SUMMARY OF QUANTITIES			100% STATE	URBAN	CONSTRUCTION TYPE CODE				
CODE NO	ITEM	UNIT	TOTAL QUANTITIES	1000					
40600200	BITUMINOUS MATERIALS (PRIME COAT)	TON	114	114					
40600300	AGGREGATE (PRIME COAT)	TON	571	571					
40600400	MIXTURE FOR CRACKS, JOINTS, AND FLANGEWAYS	TON	43	43					
40600895	CONSTRUCTING TEST STRIP	EACH	2	2					
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SO YD	816	816					
40601005	HOT-MIX ASPHALT REPLACEMENT OVER PATCHES	TON	730	730					
40603595	POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "F", N90	TON	14408	14408					
42001300	PROTECTIVE COAT	SO YD	19	19					
44000159	HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/2"	SO YD	142735	142735					
44001700	COMBINATION CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT	FOOT	1800	1800					
44002224	HOT-MIX ASPHALT REMOVAL OVER PATCHES, 6"	SO YD	2173	2173					
44201749	CLASS D PATCHES, TYPE I, 9 INCH	SO YD	30	30					
44201753	CLASS D PATCHES, TYPE II, 9 INCH	SO YD	470	470					
44201757	CLASS D PATCHES, TYPE III, 9 INCH	SO YD	97	97					
44201759	CLASS D PATCHES, TYPE IV, 9 INCH	SO YD	221	221					
44201761	CLASS D PATCHES, TYPE I, 10 INCH	SO YD	32	32					
44201765	CLASS D PATCHES, TYPE II, 10 INCH	SO YD	606	606					
44201769	CLASS D PATCHES, TYPE III, 10 INCH	SO YD	292	292					
44201771	CLASS D PATCHES, TYPE IV, 10 INCH	SO YD	425	425					
55039700	STORM SEWERS TO BE CLEANED	FOOT	7000	7000					
60251740	CATCH BASINS TO BE ADJUSTED WITH NEW TYPE 24 FRAME AND GRATE	EACH	30	30					
60300310	FRAMES AND LIDS TO BE ADJUSTED (SPECIAL)	EACH	23	23					
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	6	6					
67100100	MOBILIZATION	L SUM	1	1					
70102625	TRAFFIC CONTROL AND PROTECTION, STANDARD 701606	L SUM	1	1					
70102630	TRAFFIC CONTROL AND PROTECTION, STANDARD 701601	L SUM	1	1					

SUMMARY OF QUANTITIES			100% STATE	URBAN	CONSTRUCTION TYPE CODE				
CODE NO	ITEM	UNIT	TOTAL QUANTITIES	1000					
70102635	TRAFFIC CONTROL AND PROTECTION, STANDARD 701701	L SUM	1	1					
70300100	SHORT-TERM PAVEMENT MARKING	FOOT	5466	5466					
70300210	TEMPORARY PAVEMENT MARKING - LETTERS AND SYMBOLS	SO FT	2269	2269					
70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	20,465	20,465					
70300240	TEMPORARY PAVEMENT MARKING - LINE 6"	FOOT	11062	11062					
70300250	TEMPORARY PAVEMENT MARKING - LINE 8"	FOOT	585	585					
70300260	TEMPORARY PAVEMENT MARKING - LINE 12"	FOOT	978	978					
70300280	TEMPORARY PAVEMENT MARKING - LINE 24"	FOOT	1268	1268					
70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SO FT	607	607					
* 78000100	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	SO FT	2269	2269					
* 78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	20,465	20,465					
* 78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	11062	11062					
* 78000500	THERMOPLASTIC PAVEMENT MARKING - LINE 8"	FOOT	585	585					
* 78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	978	978					
* 78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	1268	1268					
* 78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	1377	1377					
78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	1600	1600					
* 88600600	DETECTOR LOOP REPLACEMENT	FOOT	7405	7405					
X0322256	TEMPORARY INFORMATION SIGNING	SO FT	51.4	51.4					
X4067107	POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50	TON	6175	6175					
Z0018400	DRAINAGE STRUCTURES TO BE ADJUSTED	EACH	150	150					
Z0018500	DRAINAGE STRUCTURES TO BE CLEANED	EACH	340	340					
Z0018600	DRAINAGE STRUCTURES TO BE RECONSTRUCTED	EACH	60	60					

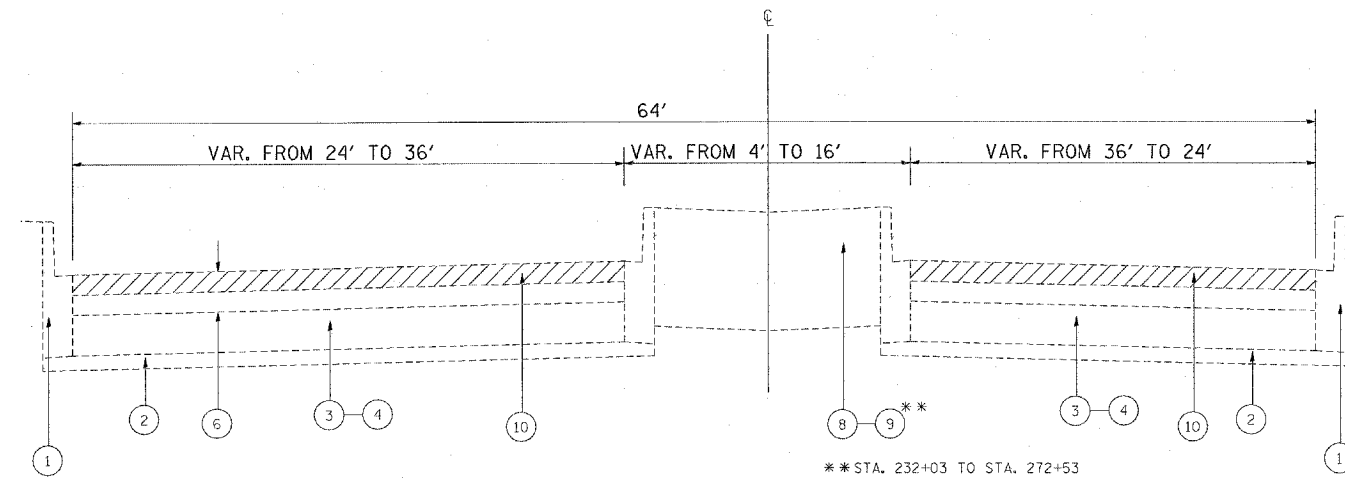
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* - Specialty Items

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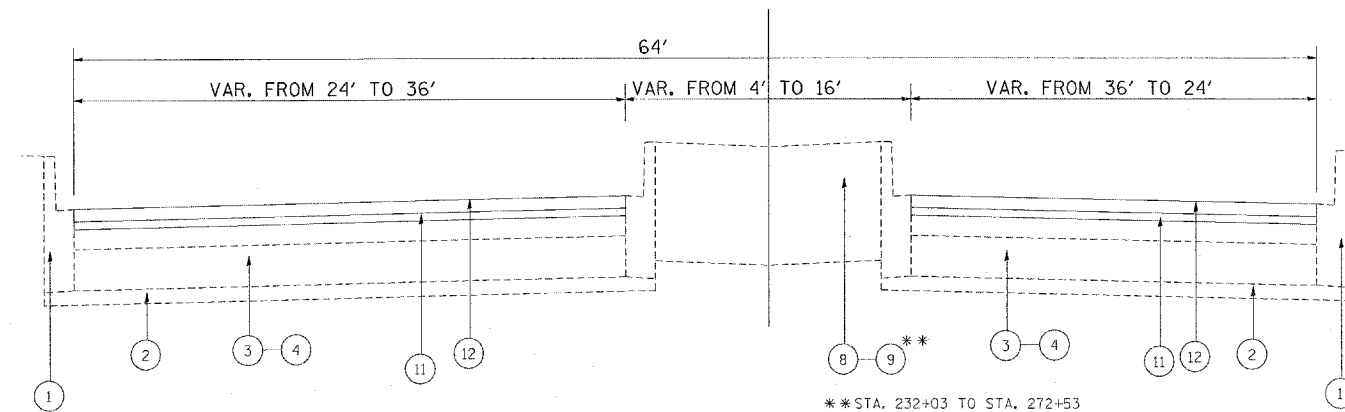
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
SUMMARY OF QUANTITIES
ILL 53 (BOLINGBROOK DRIVE)
JOLIET RD. TO DUPAGE CO. LINE



EXISTING TYPICAL SECTION
 ILL 53 (BOLINGBROOK DRIVE)
 STA. 46+98 TO STA. 75+00
 STA. 87+97 TO STA. 88+91
 STA. 142+15 TO STA. 148+67
 STA. 151+49 TO STA. 168+31
 STA. 172+00 TO STA. 173+94
 STA. 177+00 TO STA. 178+07
 STA. 181+00 TO STA. 196+45
 STA. 210+58 TO STA. 272+53

** STA. 232+03 TO STA. 272+53



PROPOSED TYPICAL SECTION
 ILL 53 (BOLINGBROOK DRIVE)
 STA. 46+98 TO STA. 75+00
 STA. 87+97 TO STA. 88+91
 STA. 142+15 TO STA. 148+67
 STA. 151+49 TO STA. 168+31
 STA. 172+00 TO STA. 173+94
 STA. 177+00 TO STA. 178+07
 STA. 181+00 TO STA. 196+45
 STA. 210+58 TO STA. 272+53

** STA. 232+03 TO STA. 272+53

LEGEND

- 1 EXISTING COMBINATION CONCRETE CURB AND GUTTER
- 2 EXISTING SUB-GRADE
- 3 EXISTING HOT-MIX ASPHALT BASE COURSE 10"
(NOTE: BETWEEN STA. 117+49 TO 272+53)
- 4 EXISTING PCC BASE COURSE 9"
(NOTE: BETWEEN 46+98 TO 100+96)
- 5 EXISTING PCC BASE COURSE 10"
- 6 EXISTING HOT-MIX ASPHALT OVERLAY
- 7 EXISTING HMA SHOULDER 8"
- 8 EXISTING P.C. CONCRETE BARRIER MEDIAN (PLANTED MEDIAN)
- ** 9 EXISTING ASPHALT MOUNTABLE MEDIAN
- 10 PROPOSED HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/2"
- 11 PROPOSED POLYMERIZED LEVELING BINDER (MACHINE METHOD),
IL-4.75, N50, 3/4"
- 12 PROPOSED POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE,
MIX "F", N90, 1 3/4"

HOT-MIX ASPHALT MIXTURE REQUIREMENTS

MIXTURE USES	POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50	POLYMERIZED HOT-MIX ASPHALT SURFACE, MIX "F", N90 (IL-9.5 MM)	HOT-MIX ASPHALT REPLACEMENT OVER PATCHES (BINDER IL-19MM)	CLASS D PATCHES (HMA BINDER IL-19MM)
AC/PG	SBS/SBR PG 76-28/22	SBS/SBR PG 70-22	PG 64-22 *	PG 64-22 *
DESIGN AIR VOIDS	4.0% @ 50 GYR	4.0% @ 90 GYR	4% @ 70 GYR	4% @ 70 GYR
THE UNIT WEIGHT USED TO CALCULATE ALL HOT-MIX ASPHALT SURFACE MIX QUANTITIES IS 112 LBS/SY/IN * WHEN RAP EXCEEDS 20%, THE NEW ASPHALT BINDER SHALL BE PG 58/22				

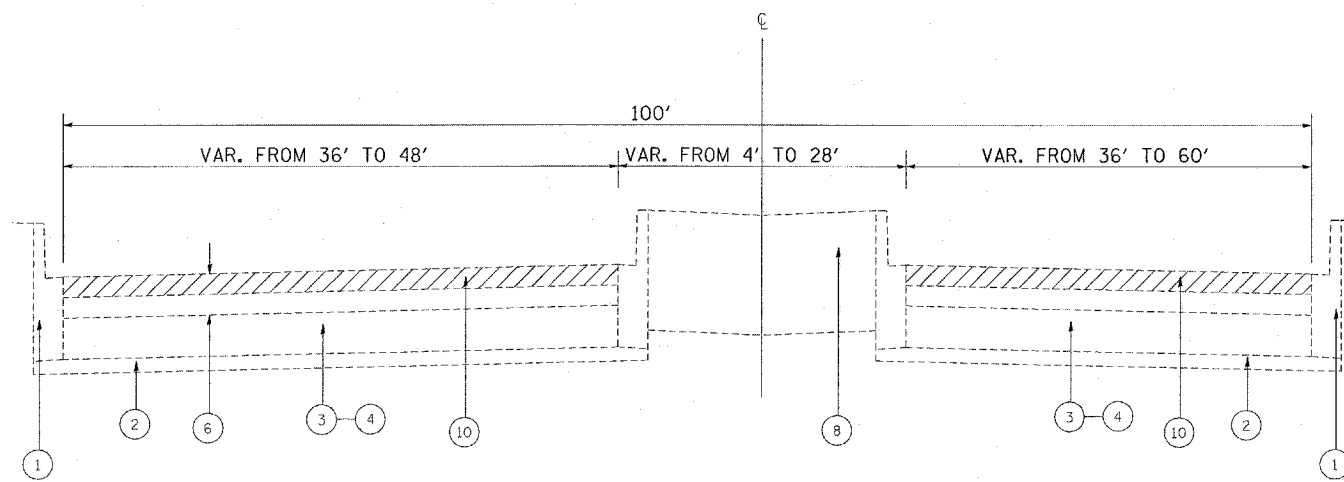
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

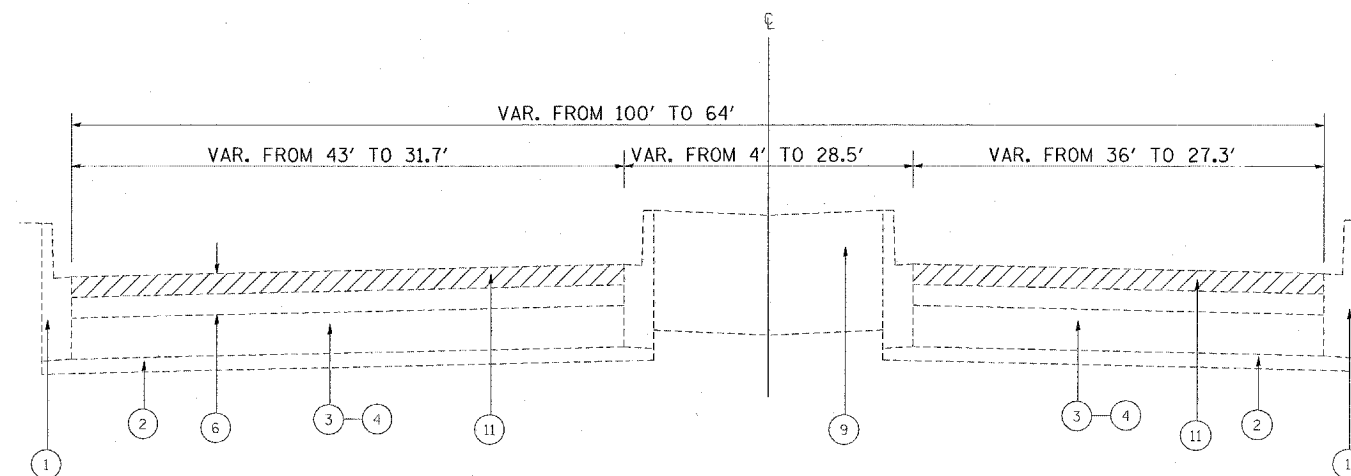
**ILL 53 (BOLINGBROOK DRIVE)
 TYPICAL SECTIONS**

SCALE: SHEET NO. OF SHEETS STA. 17+49 TO STA. 172+53

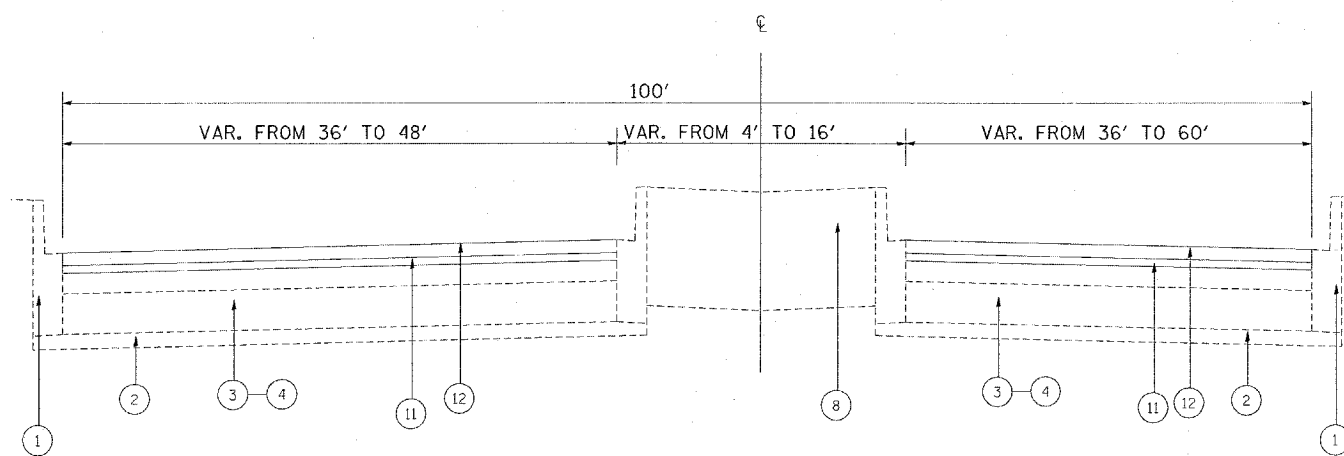
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CONTRACT NO. 60E08			FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT	



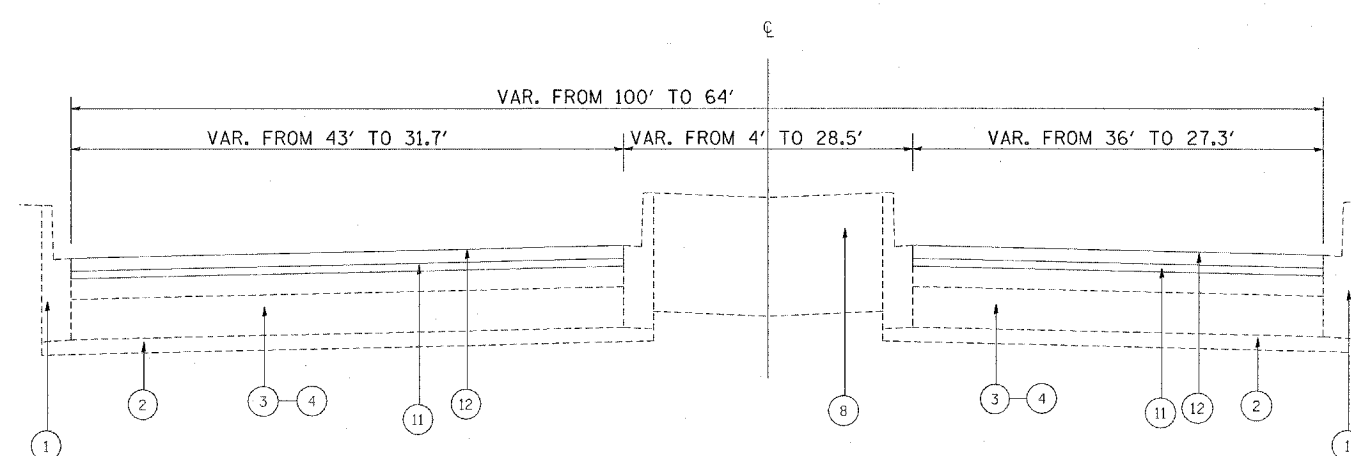
EXISTING TYPICAL SECTION
ILL 53 (BOLINGBROOK DRIVE)
STA. 117+49 TO STA. 137+88



EXISTING TYPICAL SECTION
ILL 53 (BOLINGBROOK DRIVE)
STA. 137+88 TO STA. 140+66



PROPOSED TYPICAL SECTION
ILL 53 (BOLINGBROOK DRIVE)
STA. 117+49 TO STA. 137+88

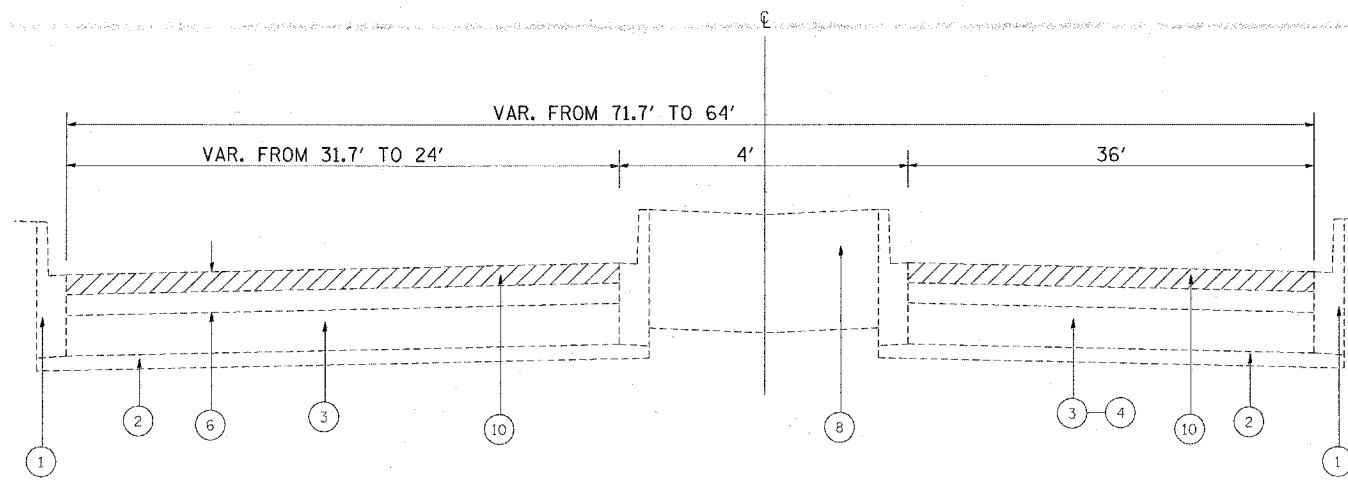


PROPOSED TYPICAL SECTION
ILL 53 (BOLINGBROOK DRIVE)
STA. 137+88 TO STA. 140+66

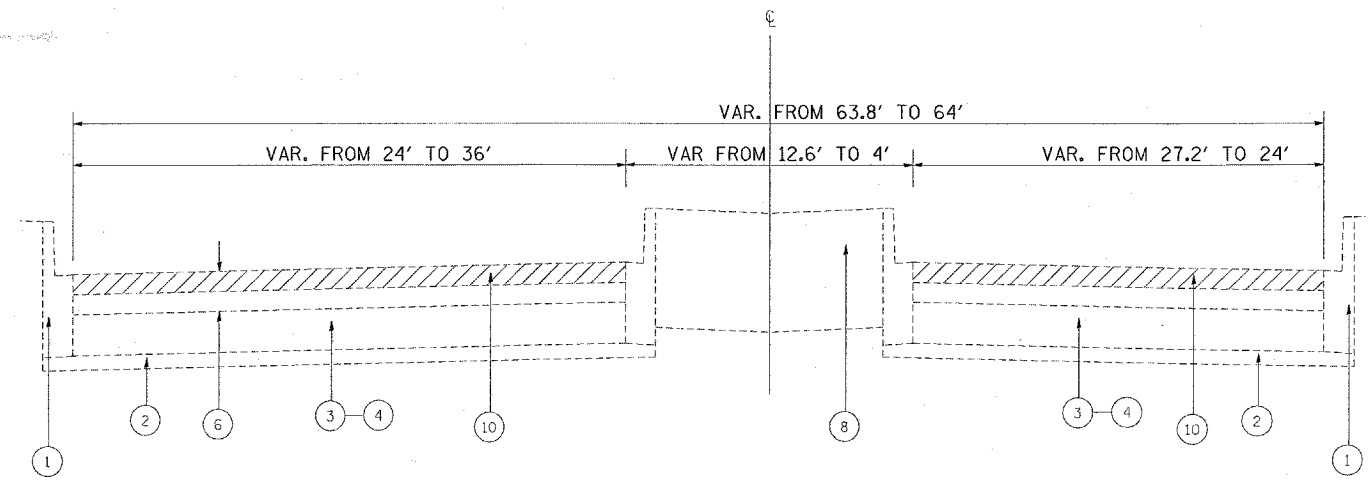
LEGEND

- | | |
|---|--|
| ① EXISTING COMBINATION CONCRETE CURB AND GUTTER | ⑧ EXISTING P.C. CONCRETE BARRIER MEDIAN (PLANTED MEDIAN) |
| ② EXISTING SUB-GRADE | ⑨ EXISTING ASPHALT MOUNTABLE MEDIAN |
| ③ EXISTING HOT-MIX ASPHALT BASE COURSE 10"
(NOTE: BETWEEN STA. 117+49 TO 272+53) | ⑩ PROPOSED HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/2" |
| ④ EXISTING PCC BASE COURSE 9"
(NOTE: BETWEEN 46+98 TO 100+96) | ⑪ PROPOSED POLYMERIZED LEVELING BINDER (MACHINE METHOD),
IL-4.75, N50, 3/4" |
| ⑤ EXISTING PCC BASE COURSE 10" | ⑫ PROPOSED POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE,
MIX "F", N90, 1 3/4" |
| ⑥ EXISTING HOT-MIX ASPHALT OVERLAY | |
| ⑦ EXISTING HMA SHOULDER 8" | |

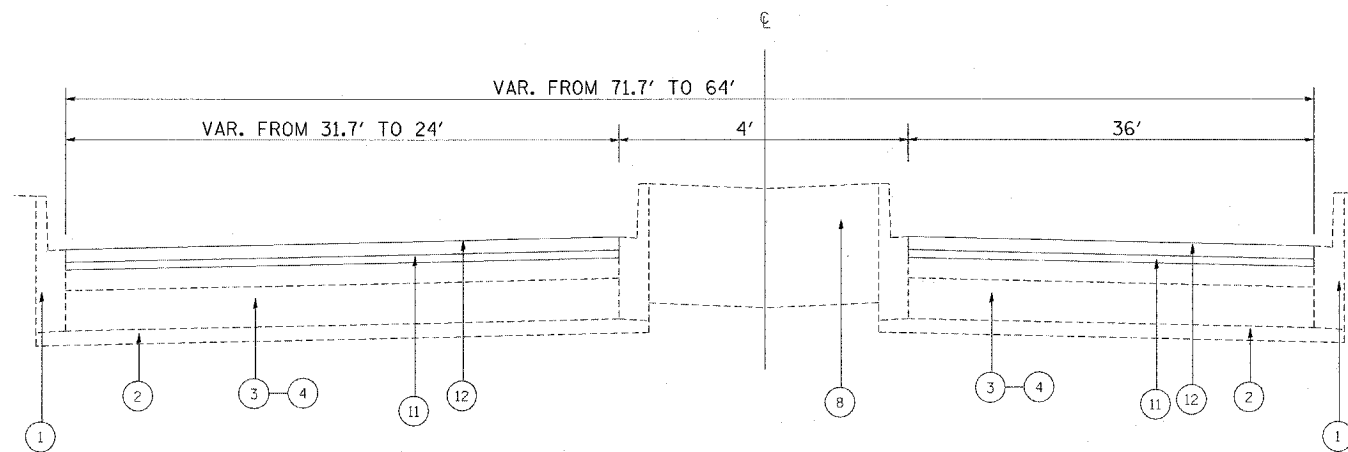
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	PLOT SCALE = 50.0000 "/ IN.	DRAWN -	REVISED -			870	534 RS-3	WILL	41	6
	PLOT DATE = 2/20/2008	CHECKED -	REVISED -			CONTRACT NO. 60E08				
		DATE -	REVISED -			SCALE:	SHEET NO. OF SHEETS	STA. 17+49 TO STA. 172+53	FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT	



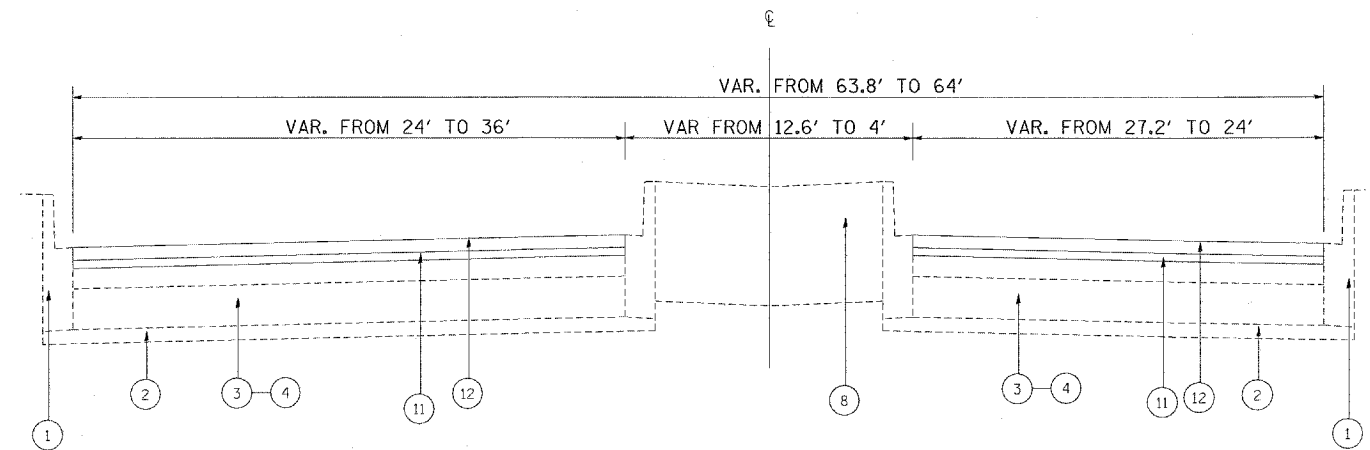
EXISTING TYPICAL SECTION
ILL 53 (BOLINGBROOK DRIVE)
STA. 140+66 TO STA. 142+15



EXISTING TYPICAL SECTION
ILL 53 (BOLINGBROOK DRIVE)
STA. 148+67 TO STA. 151+49



PROPOSED TYPICAL SECTION
ILL 53 (BOLINGBROOK DRIVE)
STA. 140+66 TO STA. 142+15

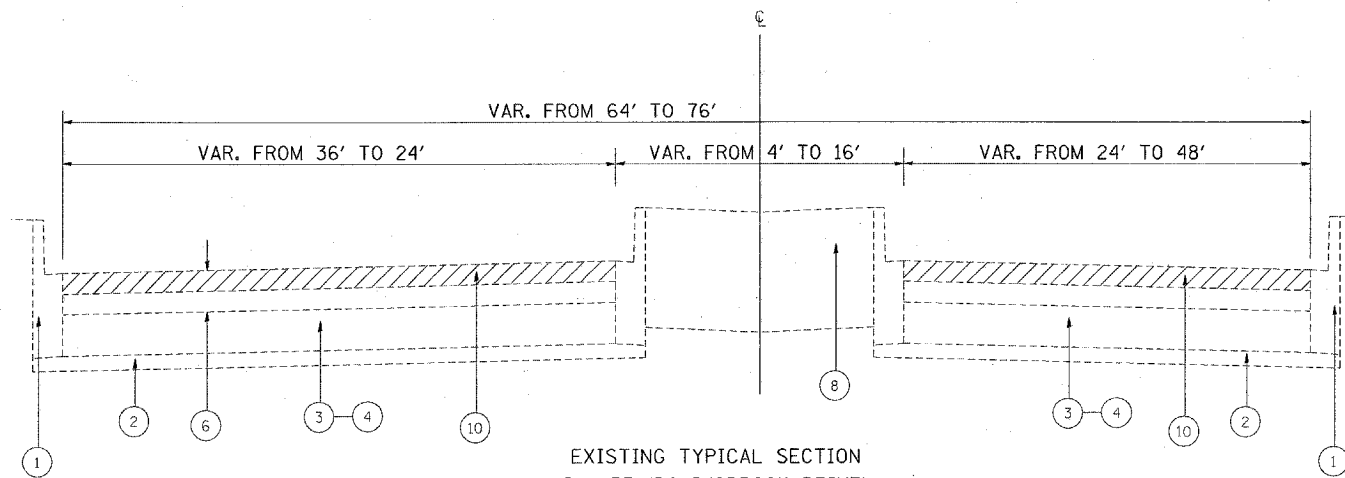


PROPOSED TYPICAL SECTION
ILL 53 (BOLINGBROOK DRIVE)
STA. 148+67 TO STA. 151+49

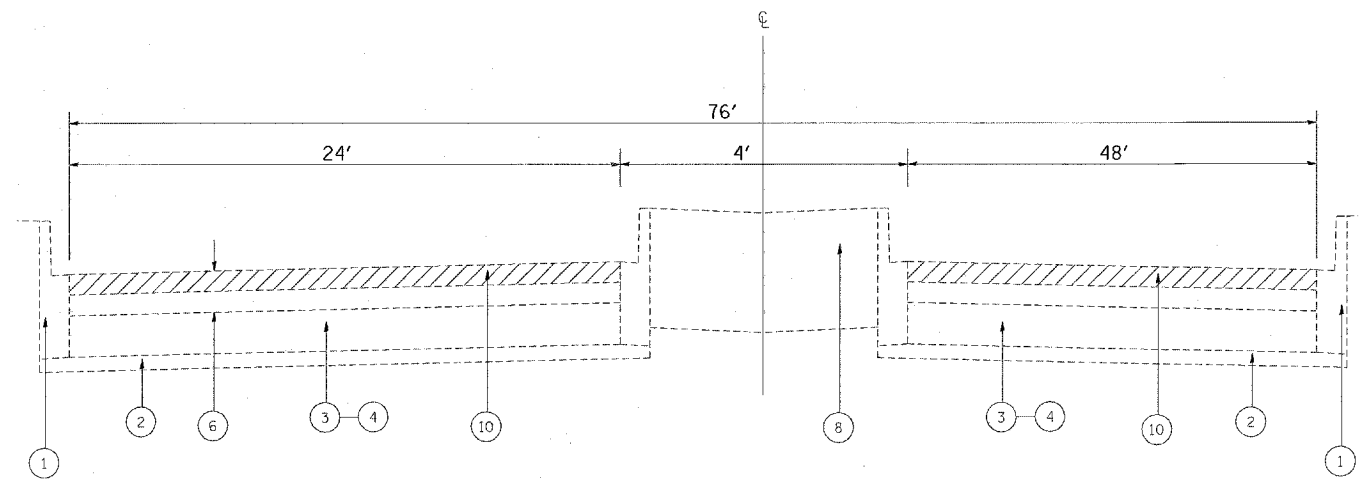
LEGEND

- | | |
|---|--|
| ① EXISTING COMBINATION CONCRETE CURB AND GUTTER | ⑧ EXISTING P.C. CONCRETE BARRIER MEDIAN (PLANTED MEDIAN) |
| ② EXISTING SUB-GRADE | ** ⑨ EXISTING ASPHALT MOUNTABLE MEDIAN |
| ③ EXISTING HOT-MIX ASPHALT BASE COURSE 10"
(NOTE: BETWEEN STA. 117+49 TO 272+53) | ⑩ PROPOSED HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/2" |
| ④ EXISTING PCC BASE COURSE 9"
(NOTE: BETWEEN 46+98 TO 100+96) | ⑪ PROPOSED POLYMERIZED LEVELING BINDER (MACHINE METHOD),
IL-4.75, N50, 3/4" |
| ⑤ EXISTING PCC BASE COURSE 10" | ⑫ PROPOSED POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE,
MIX "F", N90, 1 3/4" |
| ⑥ EXISTING HOT-MIX ASPHALT OVERLAY | |
| ⑦ EXISTING HMA SHOULDER 8" | |

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PLT SCALE = 50,0000' / IN.	CHECKED -	REVISED -	REVISED -			SCALE:	SHEET NO. OF SHEETS	STA. 17+49 TO STA. 172+53	FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			
PLT DATE = 2/20/2008	DATE -	REVISED -	REVISED -			CONTRACT NO. 60E08						

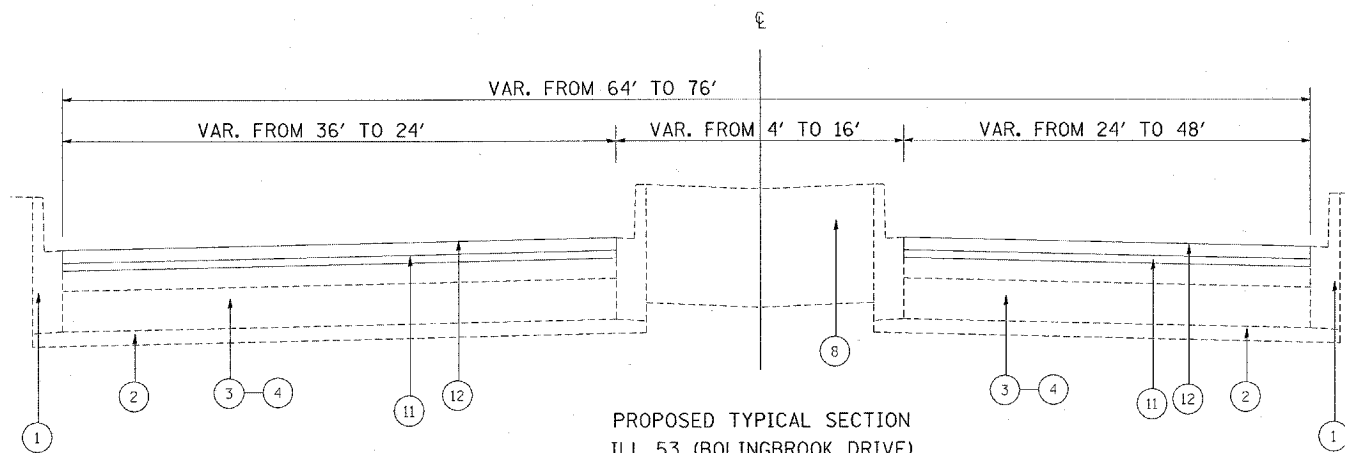


EXISTING TYPICAL SECTION
ILL 53 (BOLINGBROOK DRIVE)
STA. 88+91 TO STA. 90+84
STA. 78+02 TO STA. 80+35
STA. 168+31 TO STA. 169+68
STA. 173+94 TO STA. 175+45
STA. 178+07 TO STA. 179+47

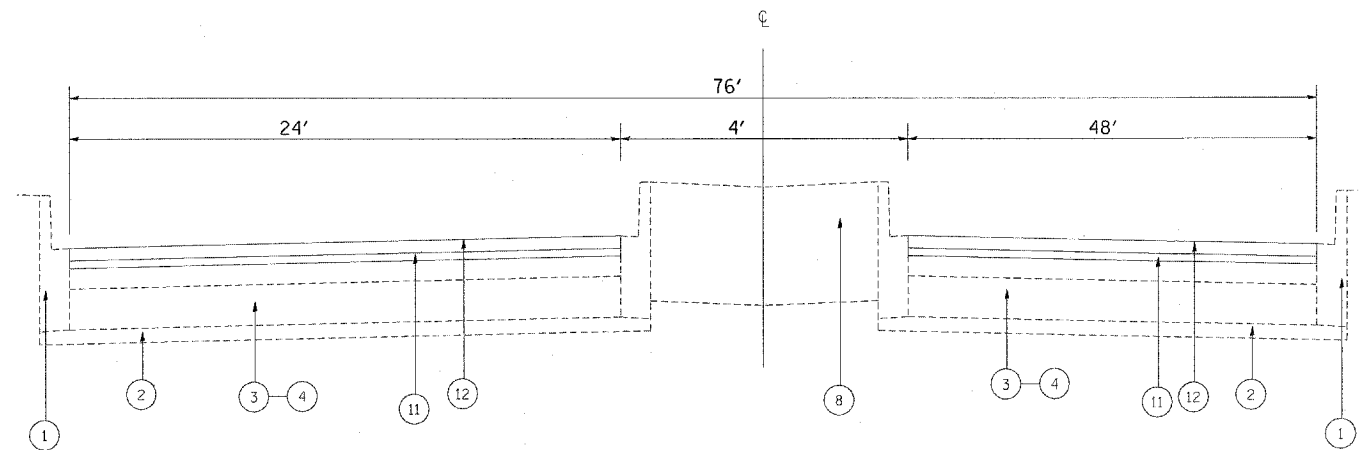


EXISTING TYPICAL SECTION
ILL 53 (BOLINGBROOK DRIVE)
STA. 76+64 TO STA. 78+02
STA. 90+84 TO STA. 97+70***
STA. 169+68 TO STA. 172+00
STA. 175+45 TO STA. 177+00
STA. 179+47 TO STA. 181+00

*** (PAINTED MEDIAN BETWEEN STA. 96+53 AND STA. 97+70)



PROPOSED TYPICAL SECTION
ILL 53 (BOLINGBROOK DRIVE)
STA. 88+91 TO STA. 90+84
STA. 78+02 TO STA. 80+35
STA. 168+31 TO STA. 169+68
STA. 173+94 TO STA. 175+45
STA. 178+07 TO STA. 179+47



PROPOSED TYPICAL SECTION
ILL 53 (BOLINGBROOK DRIVE)
STA. 76+64 TO STA. 78+02
STA. 90+84 TO STA. 97+70***
STA. 169+68 TO STA. 172+00
STA. 175+45 TO STA. 177+00
STA. 179+47 TO STA. 181+00

*** (PAINTED MEDIAN BETWEEN STA. 96+53 AND STA. 97+70)

LEGEND

- | | |
|---|--|
| ① EXISTING COMBINATION CONCRETE CURB AND GUTTER | ⑧ EXISTING P.C. CONCRETE BARRIER MEDIAN (PLANTED MEDIAN) |
| ② EXISTING SUB-GRADE | ** ⑨ EXISTING ASPHALT MOUNTABLE MEDIAN |
| ③ EXISTING HOT-MIX ASPHALT BASE COURSE 10"
(NOTE: BETWEEN STA. 117+49 TO 272+53) | ⑩ PROPOSED HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/2" |
| ④ EXISTING PCC BASE COURSE 9"
(NOTE: BETWEEN 46+98 TO 100+96) | ⑪ PROPOSED POLYMERIZED LEVELING BINDER (MACHINE METHOD),
IL-4.75, N50, 3/4" |
| ⑤ EXISTING PCC BASE COURSE 10" | ⑫ PROPOSED POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE,
MIX "F", N90, 1 3/4" |
| ⑥ EXISTING HOT-MIX ASPHALT OVERLAY | |
| ⑦ EXISTING HMA SHOULDER 8" | |

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USER NAME = abreugh

DESIGNED -
DRAWN -
CHECKED -
DATE -

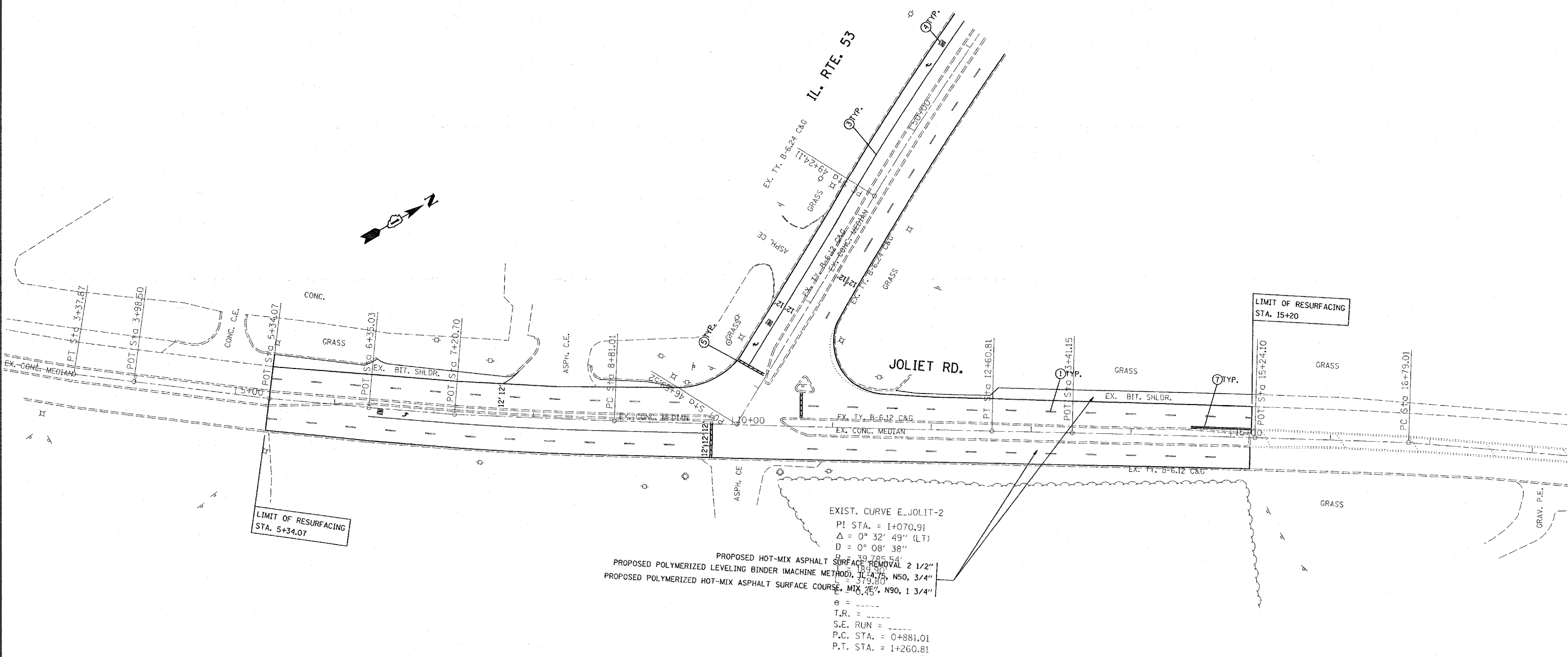
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**ILL 53 (BOLINGBROOK DRIVE)
TYPICAL SECTIONS**

SCALE: SHEET NO. OF SHEETS STA. 17+49 TO STA. 172+53

F.A.P. RTE. 870	SECTION 534 RS-3	COUNTY WILL	TOTAL SHEETS 41	SHEET NO. 8
CONTRACT NO. 60E08				FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT



EXIST. CURVE E. JOLIET-2
 PI STA. = 1+070.91
 $\Delta = 0^\circ 32' 49''$ (LT)
 $D = 0^\circ 08' 38''$
 $R = 39.765.54'$
 $L = 189.30'$
 $E = 379.88'$
 $e =$
 T.R. =
 S.E. RUN =
 P.C. STA. = 0+881.01
 P.T. STA. = 1+260.81

PROPOSED HOT-MIX ASPHALT SURFACE REMOVAL 2 1/2"
 PROPOSED POLYMERIZED LEVELING BINDER (MACHINE METHOD), 1 1/2", N50, 3/4"
 PROPOSED POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX 45% N90, 1 3/4"

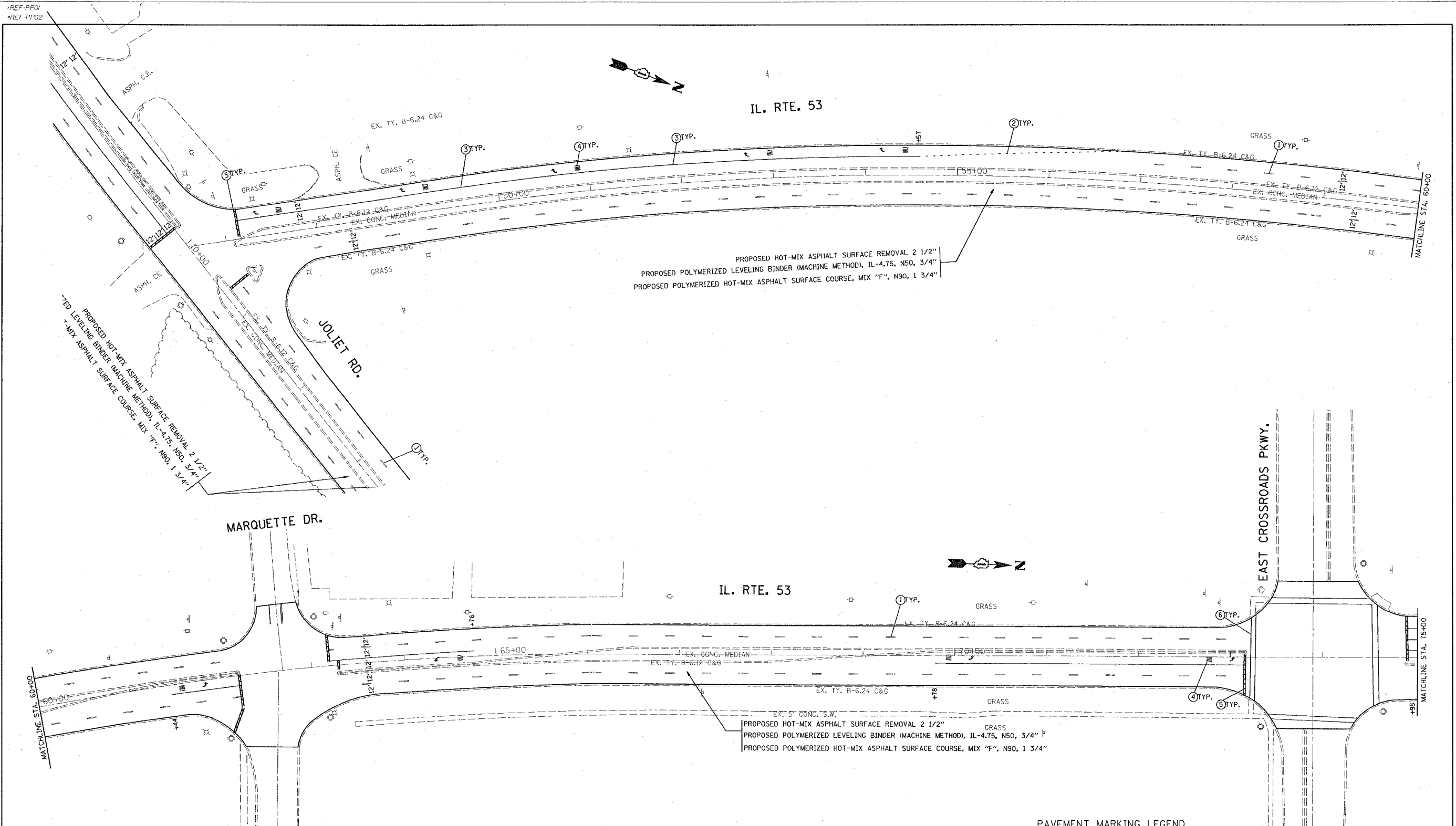
NOTES
 LIMIT OF RESURFACING ON SIDE-STREETS THROUGH OUT THE IMPROVEMENT SHALL BE TO THE RADIUS OF RETURN OR AS DIRECTED BY THE ENGINEER.

ALL FINAL PAVEMENT MARKINGS SHALL BE THERMOPLASTIC (OF THE EXTRUDED TYPE) AND SHOULD BE PLACED IN ACCORDANCE WITH "DISTRICT ONE TYPICAL PAVEMENT MARKINGS" DETAIL, (TC-13).

ALL RAISED REFLECTIVE PAVEMENT MARKERS SHALL BE PLACED IN ACCORDANCE WITH THE DISTRICT ONE "TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKER DETAIL," (TC-11).

- PAVEMENT MARKING LEGEND**
- ① 4" WHITE SKIP DASH LANE LINE
 - ② 6" WHITE DOTTED TURN LANE LINE EXTENSION
 - ③ 6" WHITE TURN LANE LINE
 - ④ WHITE LETTERS & SYMBOLS
 - ⑤ 24" WHITE STOP BAR
 - ⑥ 6" WHITE CROSS WALK LINE
 - ⑦ 4" YELLOW SOLID MEDIAN LINE
 - ⑧ 12" YELLOW DIAGONAL LINE
 - ⑨ 8" WHITE GORE LINE
 - ⑩ 12" WHITE DIAGONAL LINE

FILE NAME = c:\projects\116908\sh_rdkj.dgn	USER NAME = obreuh	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	IL. ROUTE 53 (JOLIET ROAD TO DUPAGE CO. LINE) ROADWAY PLAN	F.A.P. RTE. 870	SECTION 534 RS-3	COUNTY WILL	TOTAL SHEETS 41	SHEET NO. 9
	PLOT SCALE = 50,0000' / IN.	CHECKED -	REVISED -			SCALE: 1"=50'	SHEET NO. OF SHEETS	STA. 46+58.52 TO STA. 75+00	CONTRACT NO. 60E08	
PLOT DATE = 2/20/2008	DATE -	REVISED -	REVISED -	FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT						



NOTES
 LIMIT OF RESURFACING ON SIDE-STREETS THROUGH OUT THE IMPROVEMENT SHALL BE TO THE RADIUS OF RETURN OR AS DIRECTED BY THE ENGINEER.

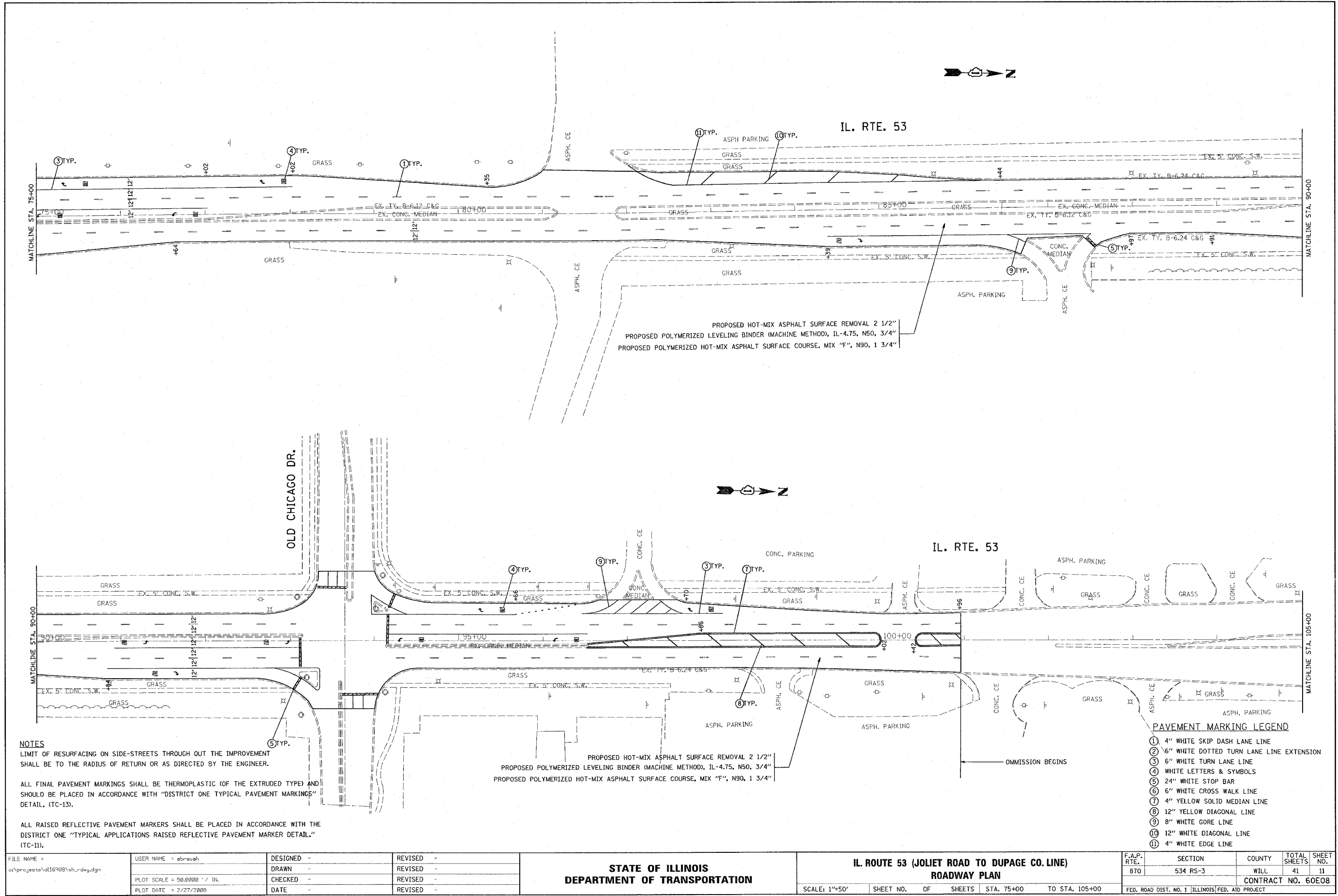
ALL FINAL PAVEMENT MARKINGS SHALL BE THERMOPLASTIC (OF THE EXTRUDED TYPE) AND SHOULD BE PLACED IN ACCORDANCE WITH "DISTRICT ONE TYPICAL PAVEMENT MARKINGS" DETAIL, (TC-13).

ALL RAISED REFLECTIVE PAVEMENT MARKERS SHALL BE PLACED IN ACCORDANCE WITH THE DISTRICT ONE "TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKER DETAIL," (TC-11).

PAVEMENT MARKING LEGEND

- ① 4" WHITE SKIP DASH LANE LINE
- ② 6" WHITE DOTTED TURN LANE LINE EXTENSION
- ③ 6" WHITE TURN LANE LINE
- ④ WHITE LETTERS & SYMBOLS
- ⑤ 24" WHITE STOP BAR
- ⑥ 6" WHITE CROSS WALK LINE
- ⑦ 4" YELLOW SOLID MEDIAN LINE
- ⑧ 12" YELLOW DIAGONAL LINE
- ⑨ 8" WHITE GORE LINE
- ⑩ 12" WHITE DIAGONAL LINE

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PLOT SCALE = 50.0000' / IN.	CHECKED -	REVISED -	SCALE: 1"=50'			SHEET NO. OF SHEETS	STA. 46+58.52 TO STA. 75+00	CONTRACT NO. 60E08			
PLOT DATE = 2/27/2008	DATE -	REVISED -	FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT								



NOTES
LIMIT OF RESURFACING ON SIDE-STREETS THROUGH OUT THE IMPROVEMENT SHALL BE TO THE RADIUS OF RETURN OR AS DIRECTED BY THE ENGINEER.
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PAVEMENT MARKING LEGEND

- ① 4" WHITE SKIP DASH LANE LINE
- ② 6" WHITE DOTTED TURN LANE LINE EXTENSION
- ③ 6" WHITE TURN LANE LINE
- ④ WHITE LETTERS & SYMBOLS
- ⑤ 24" WHITE STOP BAR
- ⑥ 6" WHITE CROSS WALK LINE
- ⑦ 4" YELLOW SOLID MEDIAN LINE
- ⑧ 12" YELLOW DIAGONAL LINE
- ⑨ 8" WHITE GORE LINE
- ⑩ 12" WHITE DIAGONAL LINE
- ⑪ 4" WHITE EDGE LINE

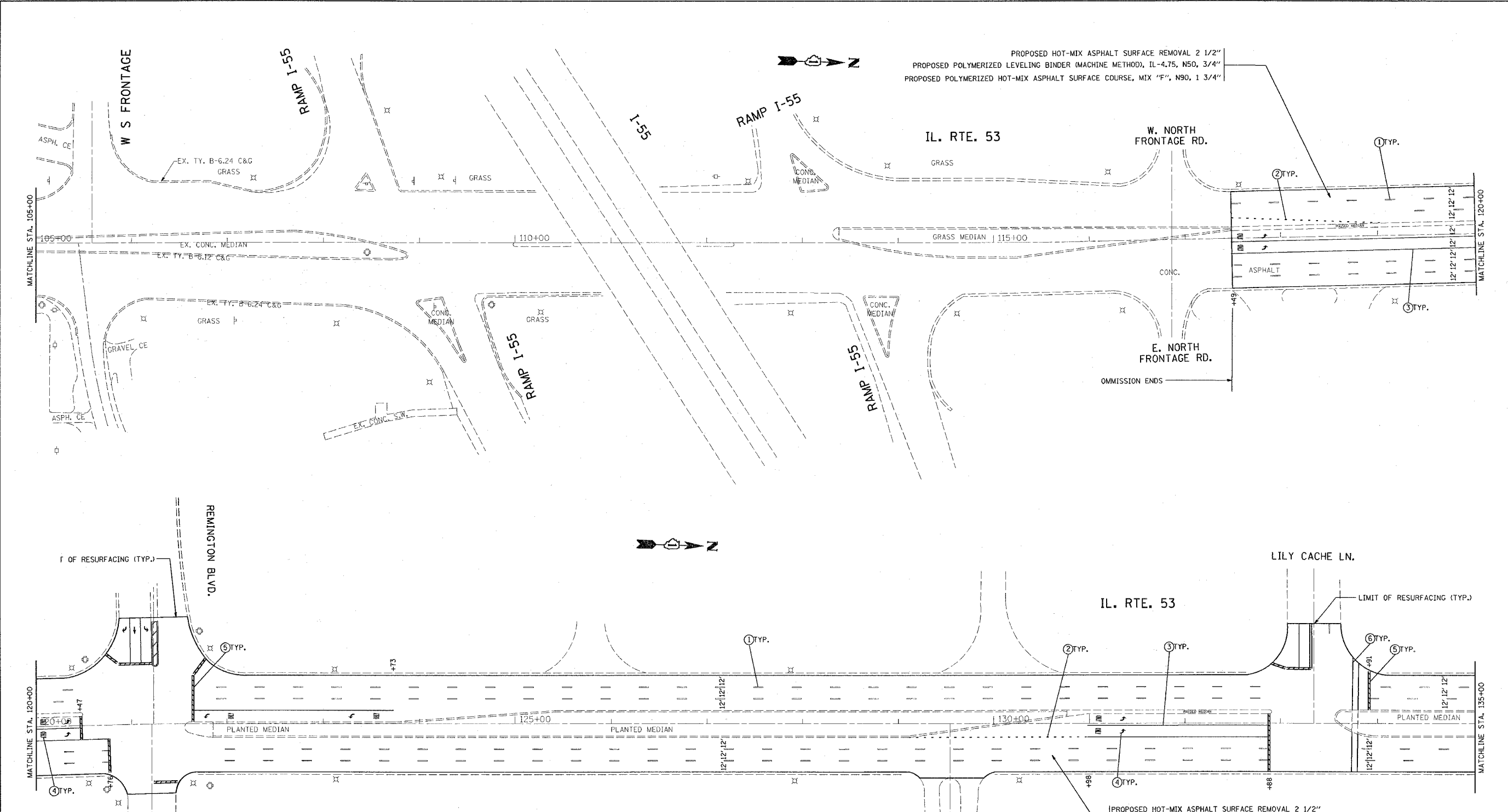
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PLOT DATE = 2/27/2008	DATE -	CHECKED -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**IL. ROUTE 53 (JOLIET ROAD TO DUPAGE CO. LINE)
ROADWAY PLAN**

SCALE: 1"=50' SHEET NO. OF SHEETS STA. 75+00 TO STA. 105+00

F.A.P. RTE. 870	SECTION 534 RS-3	COUNTY WILL	TOTAL SHEETS 41	SHEET NO. 11
CONTRACT NO. 60E08				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



PROPOSED HOT-MIX ASPHALT SURFACE REMOVAL 2 1/2"
 PROPOSED POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50, 3/4"
 PROPOSED POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "F", N90, 1 3/4"

PROPOSED HOT-MIX ASPHALT SURFACE REMOVAL 2 1/2"
 PROPOSED POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50, 3/4"
 PROPOSED POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "F", N90, 1 3/4"

PAVEMENT MARKING LEGEND

- ① 4" WHITE SKIP DASH LANE LINE
- ② 6" WHITE DOTTED TURN LANE LINE EXTENSION
- ③ 6" WHITE TURN LANE LINE
- ④ WHITE LETTERS & SYMBOLS
- ⑤ 24" WHITE STOP BAR
- ⑥ 6" WHITE CROSS WALK LINE
- ⑦ 4" YELLOW SOLID MEDIAN LINE
- ⑧ 12" YELLOW DIAGONAL LINE
- ⑨ 8" WHITE GORE LINE
- ⑩ 12" WHITE DIAGONAL LINE

NOTES

LIMIT OF RESURFACING ON SIDE-STREETS THROUGH OUT THE IMPROVEMENT SHALL BE TO THE RADIUS OF RETURN OR AS DIRECTED BY THE ENGINEER.

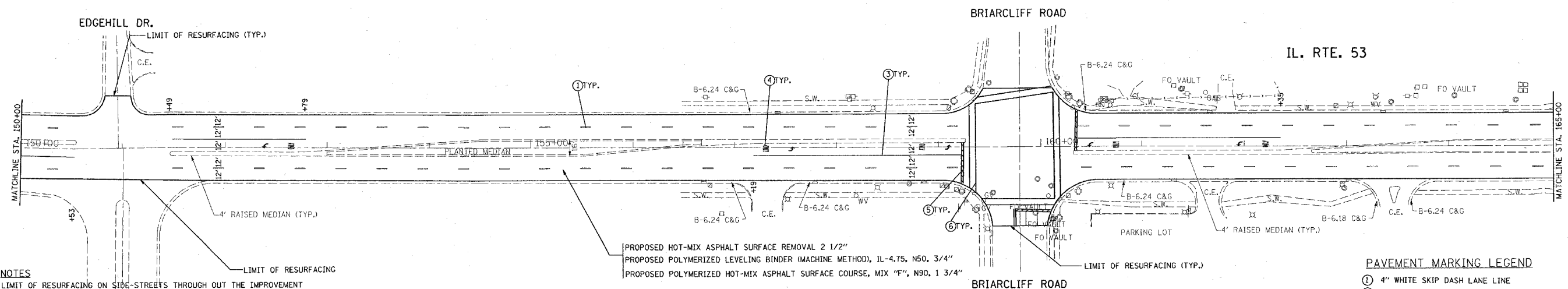
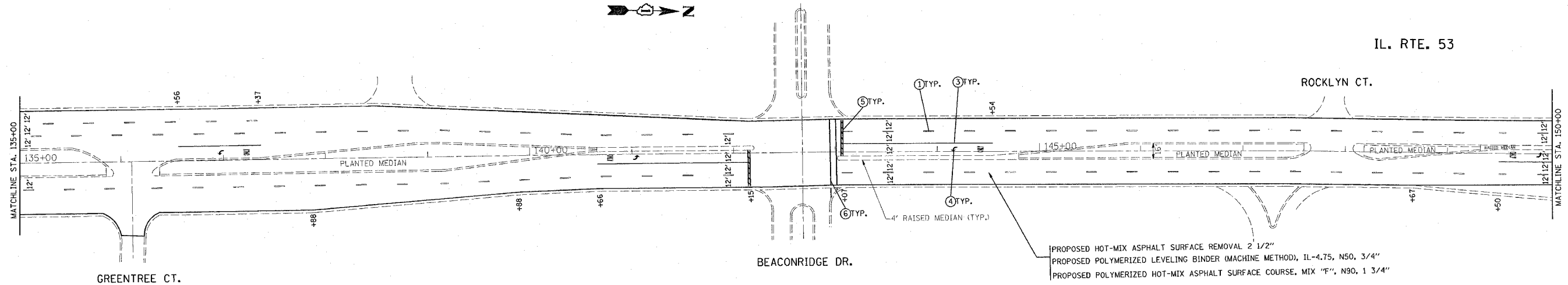
ALL FINAL PAVEMENT MARKINGS SHALL BE THERMOPLASTIC (OF THE EXTRUDED TYPE) AND SHOULD BE PLACED IN ACCORDANCE WITH "DISTRICT ONE TYPICAL PAVEMENT MARKINGS" DETAIL, (TC-13).

ALL RAISED REFLECTIVE PAVEMENT MARKERS SHALL BE PLACED IN ACCORDANCE WITH THE DISTRICT ONE "TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKER DETAIL." (TC-11).

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PLOT SCALE = 50.0000' / IN.	CHECKED -	REVISED -	SCALE: 1"=50'			SHEET NO. OF SHEETS	STA. 105+00 TO STA. 135+00	CONTRACT NO. 60E08			
PLOT DATE = 2/27/2008	DATE -	REVISED -									
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT											

REF-PP07
REF-PP08

IL. RTE. 53



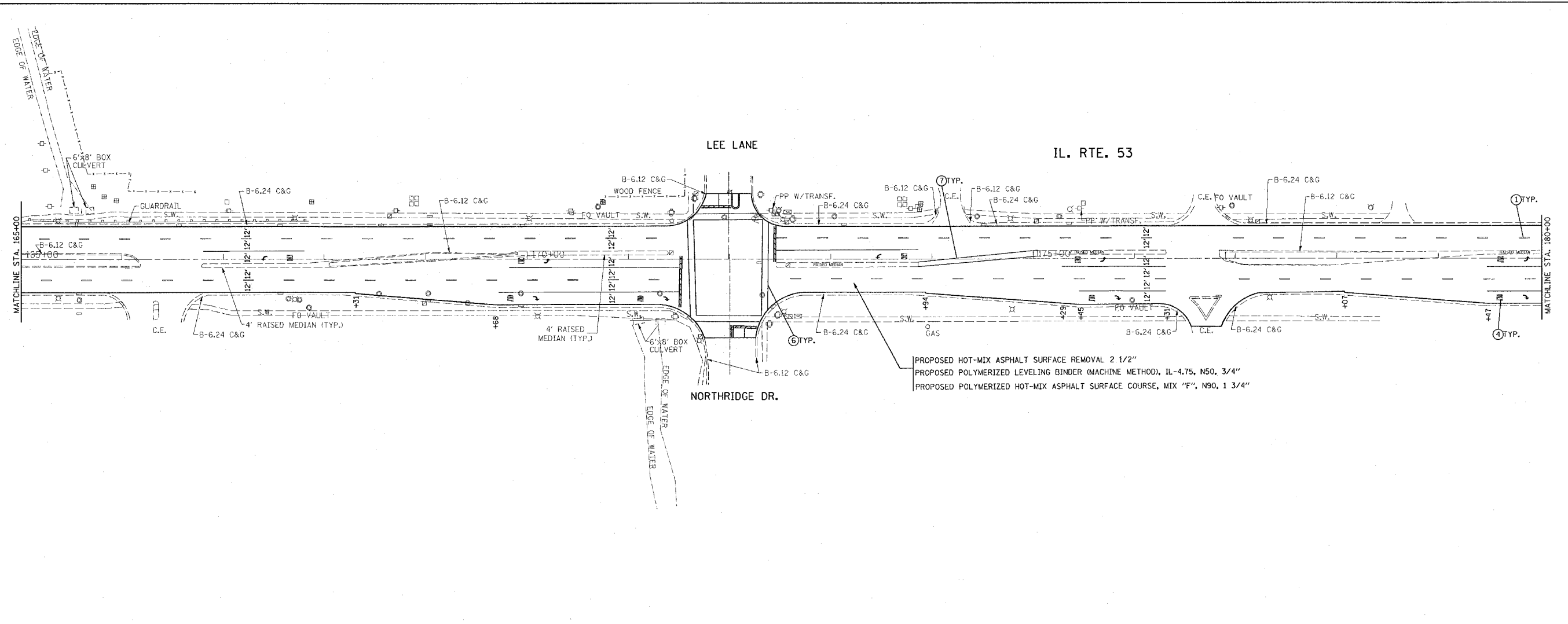
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PROPOSED HOT-MIX ASPHALT SURFACE REMOVAL 2 1/2"
PROPOSED POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50, 3/4"
PROPOSED POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "F", N90, 1 3/4"

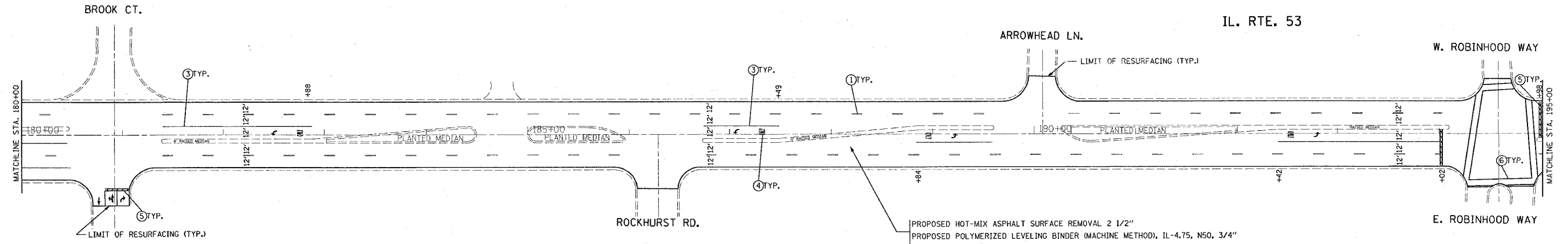
- PAVEMENT MARKING LEGEND**
- ① 4" WHITE SKIP DASH LANE LINE
 - ② 6" WHITE DOTTED TURN LANE LINE EXTENSION
 - ③ 6" WHITE TURN LANE LINE
 - ④ WHITE LETTERS & SYMBOLS
 - ⑤ 24" WHITE STOP BAR
 - ⑥ 6" WHITE CROSS WALK LINE
 - ⑦ 4" YELLOW SOLID MEDIAN LINE
 - ⑧ 12" YELLOW DIAGONAL LINE
 - ⑨ 8" WHITE GORE LINE
 - ⑩ 12" WHITE DIAGONAL LINE

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PLOT SCALE = 58.0000' / IN.	CHECKED -	REVISED -	REVISED -		SCALE: 1"=50'	SHEET NO. OF SHEETS	STA. 135+00 TO STA. 165+00	CONTRACT NO. 60E08					
PLOT DATE = 2/27/2008	DATE -	REVISED -	REVISED -		FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT								

REF-PP05
REF-PP10



PROPOSED HOT-MIX ASPHALT SURFACE REMOVAL 2 1/2"
 PROPOSED POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50, 3/4"
 PROPOSED POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "F", N90, 1 3/4"



PROPOSED HOT-MIX ASPHALT SURFACE REMOVAL 2 1/2"
 PROPOSED POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50, 3/4"
 PROPOSED POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "F", N90, 1 3/4"

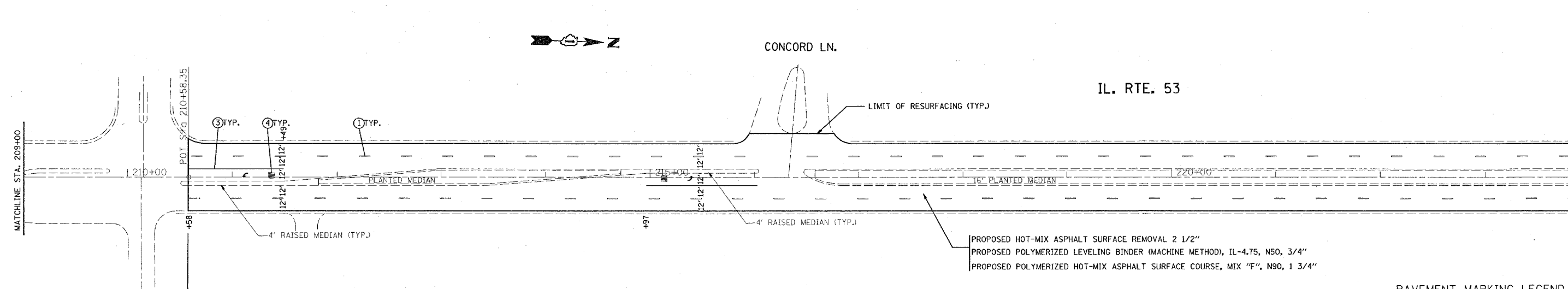
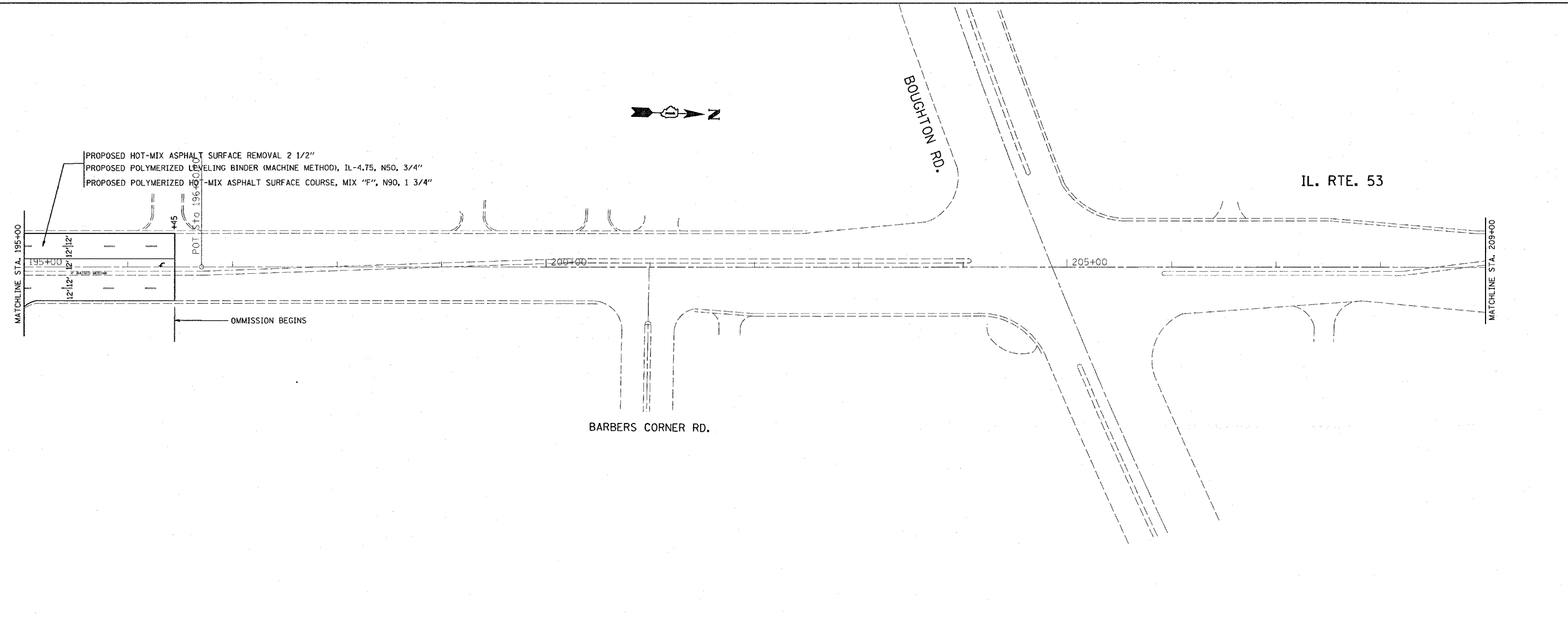
NOTES
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- PAVEMENT MARKING LEGEND**
- ① 4" WHITE SKIP DASH LANE LINE
 - ② 6" WHITE DOTTED TURN LANE LINE EXTENSION
 - ③ 6" WHITE TURN LANE LINE
 - ④ WHITE LETTERS & SYMBOLS
 - ⑤ 24" WHITE STOP BAR
 - ⑥ 6" WHITE CROSS WALK LINE
 - ⑦ 4" YELLOW SOLID MEDIAN LINE
 - ⑧ 12" YELLOW DIAGONAL LINE
 - ⑨ 8" WHITE CORE LINE
 - ⑩ 12" WHITE DIAGONAL LINE

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PLOT SCALE = 58.80000' / IN.					SCALE: 1"=50'	SHEET NO. OF SHEETS	STA. 165+00 TO STA. 195+00	CONTRACT NO. 60E08				
PLOT DATE = 2/27/2008					DATE	FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT						



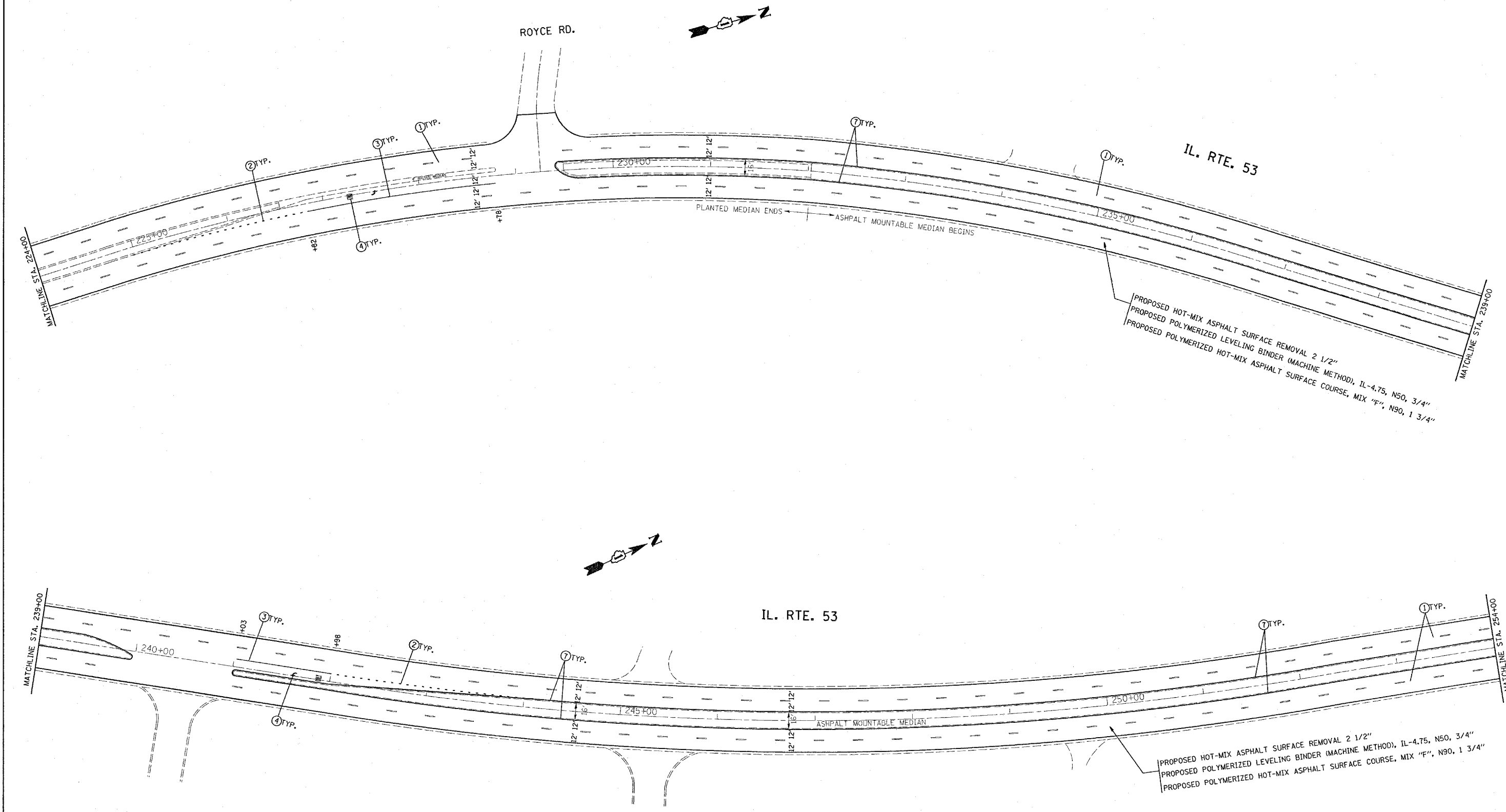
NOTES
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- PAVEMENT MARKING LEGEND**
- ① 4" WHITE SKIP DASH LANE LINE
 - ② 6" WHITE DOTTED TURN LANE LINE EXTENSION
 - ③ 6" WHITE TURN LANE LINE
 - ④ WHITE LETTERS & SYMBOLS
 - ⑤ 24" WHITE STOP BAR
 - ⑥ 6" WHITE CROSS WALK LINE
 - ⑦ 4" YELLOW SOLID MEDIAN LINE
 - ⑧ 12" YELLOW DIAGONAL LINE
 - ⑨ 8" WHITE GORE LINE
 - ⑩ 12" WHITE DIAGONAL LINE

FILE NAME = c:\projects\116908\ah_rdwj.dgn	USER NAME = abreuah	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	IL. ROUTE 53 (JOLIET ROAD TO DUPAGE CO. LINE) ROADWAY PLAN	F.A.P. RTE. 870	SECTION 534 RS-3	COUNTY WILL	TOTAL SHEETS 41	SHEET NO. 15
	PLOT SCALE = 50,0000' / IN.	CHECKED -	REVISED -			SCALE: 1"=50'	SHEET NO. OF SHEETS	STA. 195+00 TO STA. 224+00	CONTRACT NO. 60E08	
PLOT DATE = 2/20/2008	DATE -	REVISED -	REVISED -	FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT						



NOTES
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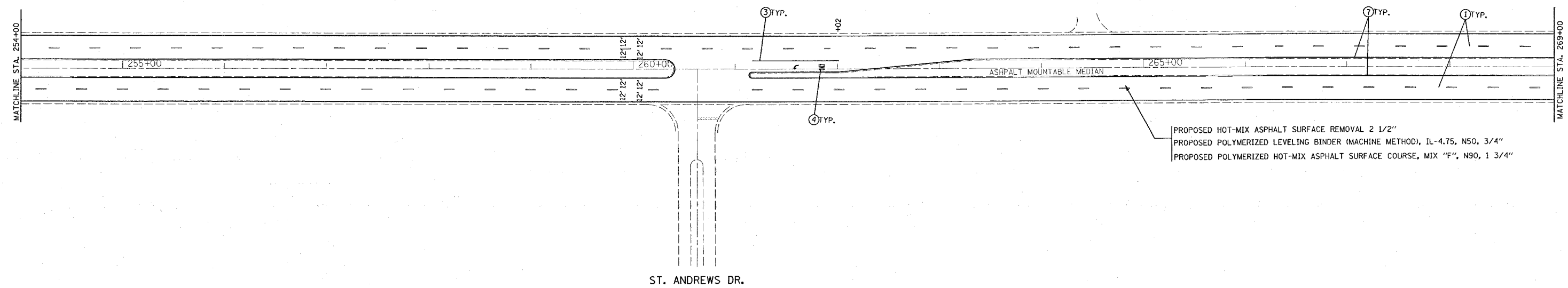
ALL RAISED REFLECTIVE PAVEMENT MARKERS SHALL BE PLACED IN ACCORDANCE WITH THE DISTRICT ONE "TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKER DETAIL." (TC-11).

PAVEMENT MARKING LEGEND

①	4" WHITE SKIP DASH LANE LINE
②	6" WHITE DOTTED TURN LANE LINE EXTENSION
③	6" WHITE TURN LANE LINE
④	WHITE LETTERS & SYMBOLS
⑤	24" WHITE STOP BAR
⑥	6" WHITE CROSS WALK LINE
⑦	4" YELLOW SOLID MEDIAN LINE
⑧	12" YELLOW DIAGONAL LINE
⑨	8" WHITE GORE LINE
⑩	12" WHITE DIAGONAL LINE

FILE NAME = c:\projects\dl16908\sh_r.dwg	USER NAME = abreuah	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	IL. ROUTE 53 (JOLIET ROAD TO DUPAGE CO. LINE) ROADWAY PLAN			F.A.P. RTE. 870	SECTION 534 RS-3	COUNTY WILL	TOTAL SHEETS 41	SHEET NO. 16
	PLOT SCALE = 50,0000' / IN.	CHECKED -	REVISED -					SCALE: 1"=50'			SHEET NO. OF SHEETS STA. 224+00 TO STA. 254+00	
PLOT DATE = 2/20/2008	DATE -	REVISED -	REVISED -	FED. ROAD DIST. NO. 1 [ILLINOIS] FED. AID PROJECT								

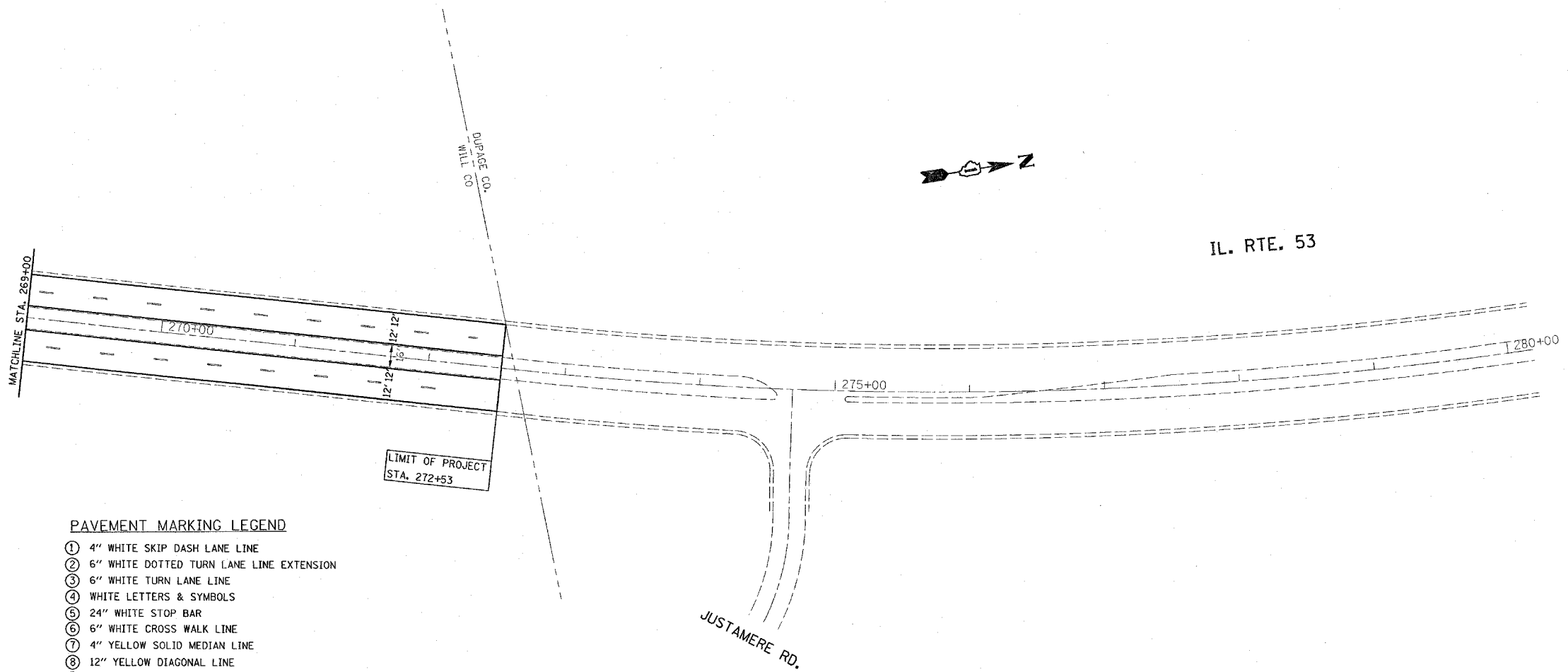
IL. RTE. 53



PROPOSED HOT-MIX ASPHALT SURFACE REMOVAL 2 1/2"
 PROPOSED POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50, 3/4"
 PROPOSED POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "F", N90, 1 3/4"

ST. ANDREWS DR.

IL. RTE. 53



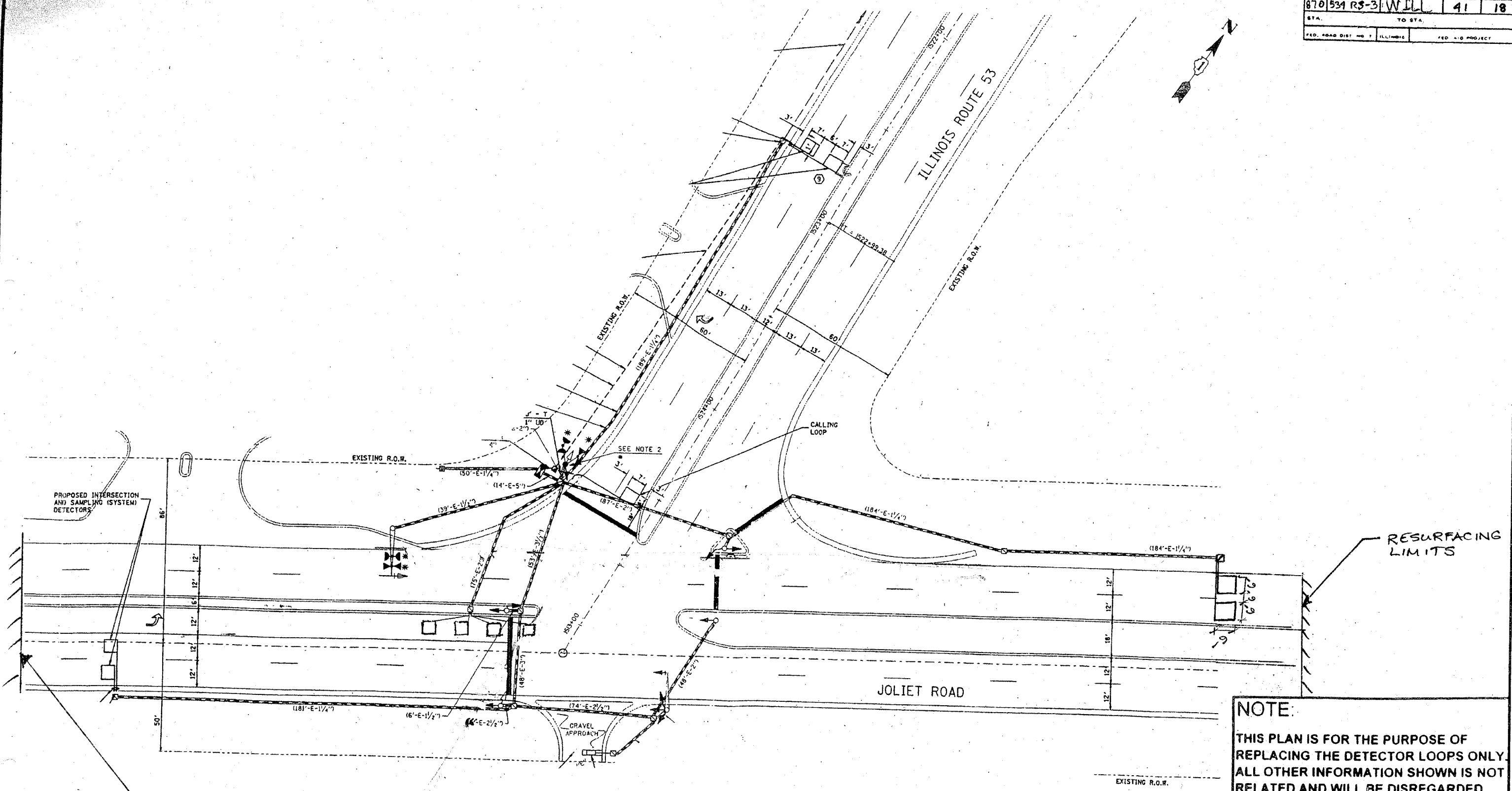
- PAVEMENT MARKING LEGEND**
- ① 4" WHITE SKIP DASH LANE LINE
 - ② 6" WHITE DOTTED TURN LANE LINE EXTENSION
 - ③ 6" WHITE TURN LANE LINE
 - ④ WHITE LETTERS & SYMBOLS
 - ⑤ 24" WHITE STOP BAR
 - ⑥ 6" WHITE CROSS WALK LINE
 - ⑦ 4" YELLOW SOLID MEDIAN LINE
 - ⑧ 12" YELLOW DIAGONAL LINE
 - ⑨ 8" WHITE GORE LINE
 - ⑩ 12" WHITE DIAGONAL LINE

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FILE NAME = c:\projects\d116908\sh_rdwj.dgn	USER NAME = obreuch	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	IL. ROUTE 53 (JOLIET ROAD TO DUPAGE CO. LINE) ROADWAY PLAN	F.A.P. RTE. 870	SECTION 534 RS-3	COUNTY WILL	TOTAL SHEETS 41	SHEET NO. 17		
PLOT SCALE = 50.0000' / IN.	CHECKED -	REVISIED -	SCALE: 1"=50'			SHEET NO. OF SHEETS	STA. 254+00 TO STA. 280+18.33	FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				
PLOT DATE = 2/20/2009	DATE -	REVISIED -	CONTRACT NO. 60E08									



BEGIN
RESURFACING

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

CODE NO.	QUANTITY	UNIT	ITEM
88600600	369	Foot	Detector Loop Replacement

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

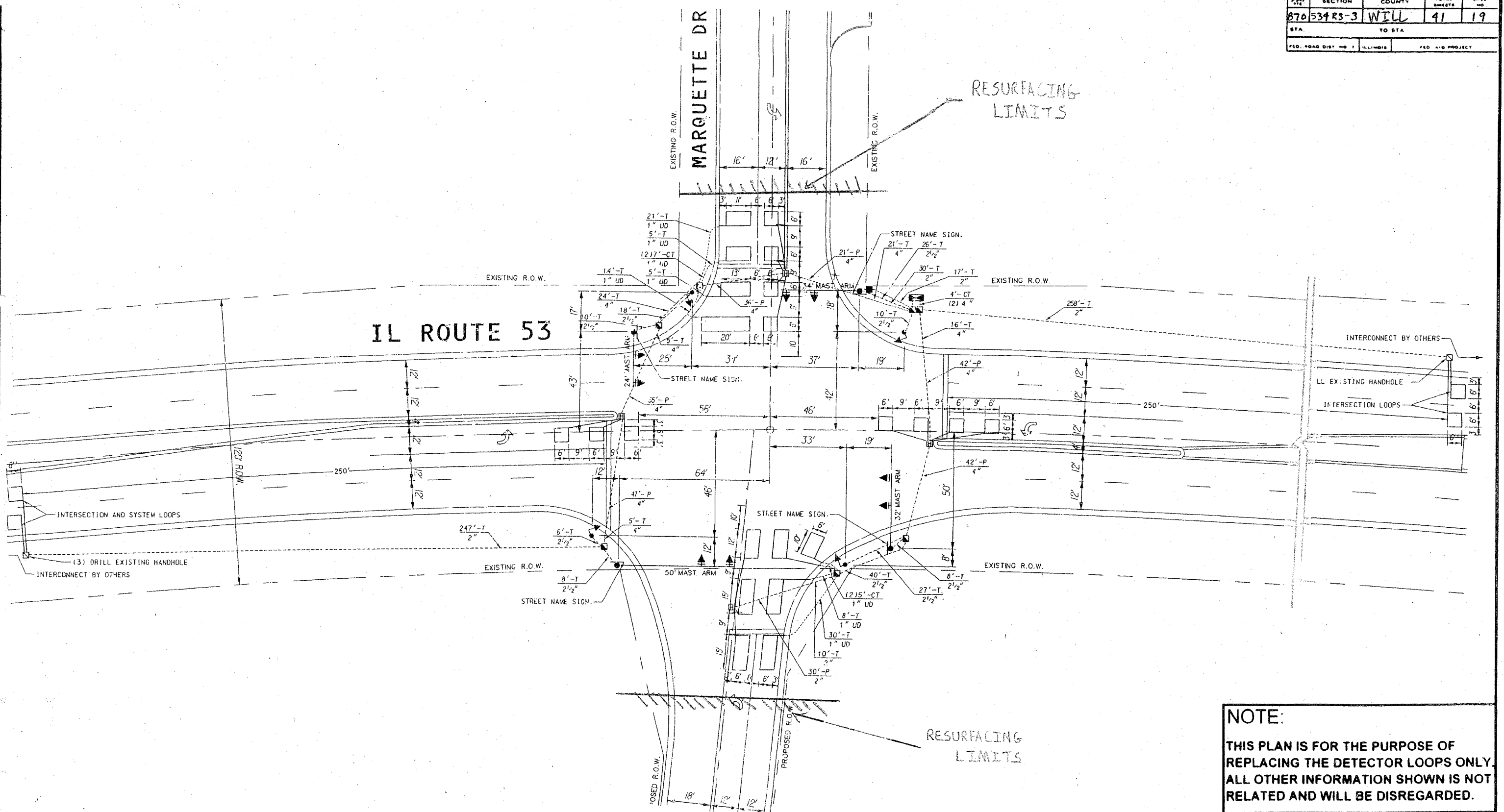
DETECTOR LOOP REPLACEMENT

ILL RTE 53 + JOLIET RD.

SCALE: 1" = 20'

DATE: JAN 2008

DRAWN BY: JHE
DESIGNED BY: JHE
CHECKED BY: DAD.



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

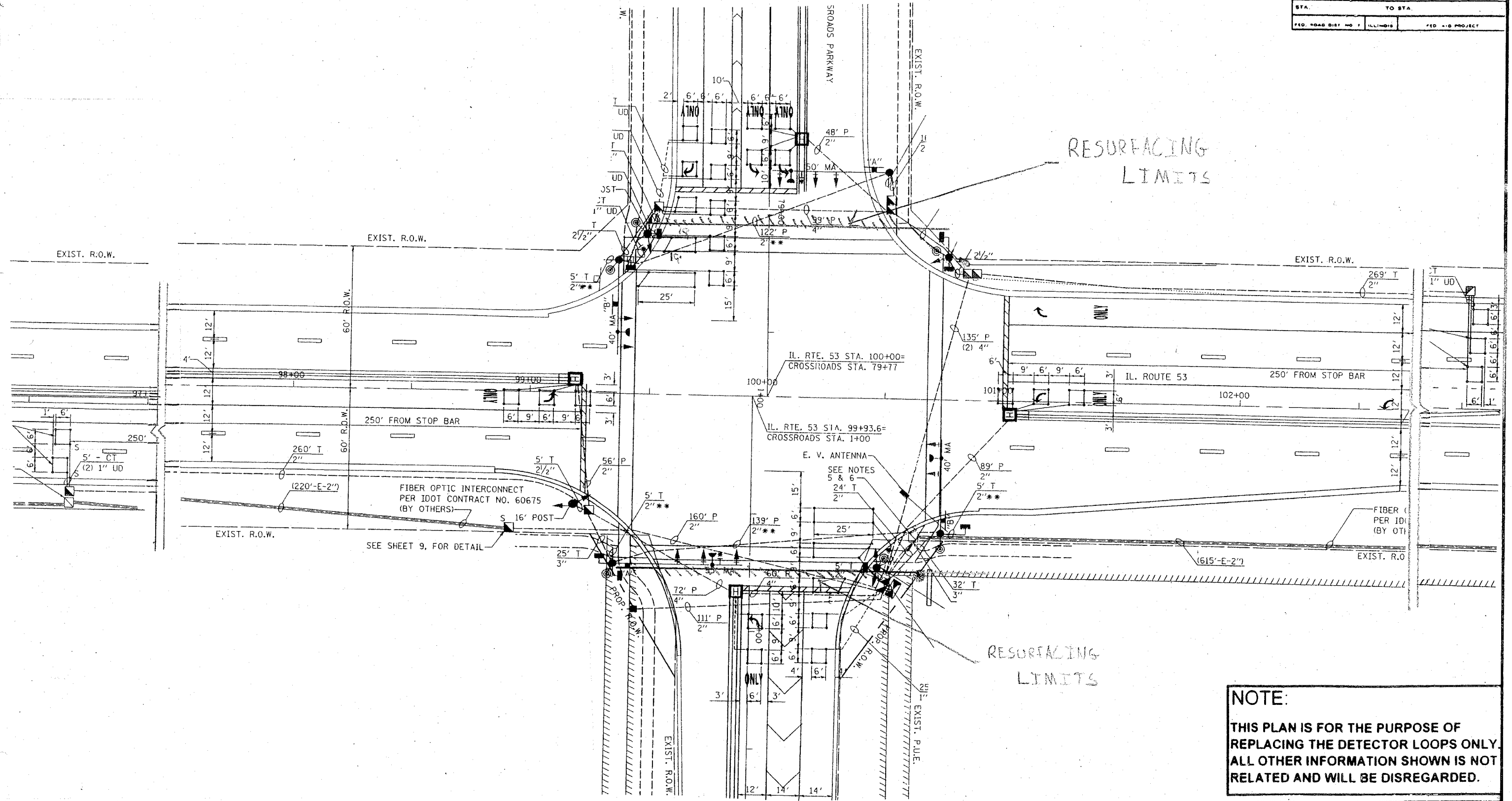
CODE NO.	QUANTITY	UNIT	ITEM
88600600	940	Foot	Detector Loop Replacement

NOTE:
THIS PLAN IS FOR THE PURPOSE OF REPLACING THE DETECTOR LOOPS ONLY. ALL OTHER INFORMATION SHOWN IS NOT RELATED AND WILL BE DISREGARDED.

ILLINOIS DEPARTMENT OF TRANSPORTATION
DETECTOR LOOP REPLACEMENT
ILL. RTE. 53 + MARQUETTE DR.

REVISIONS	
NAME	DATE

SCALE: 1" = 20'
DATE: JAN 2002
DRAWN BY: JHE.
DESIGNED BY: JHE.
CHECKED BY: DAD.



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

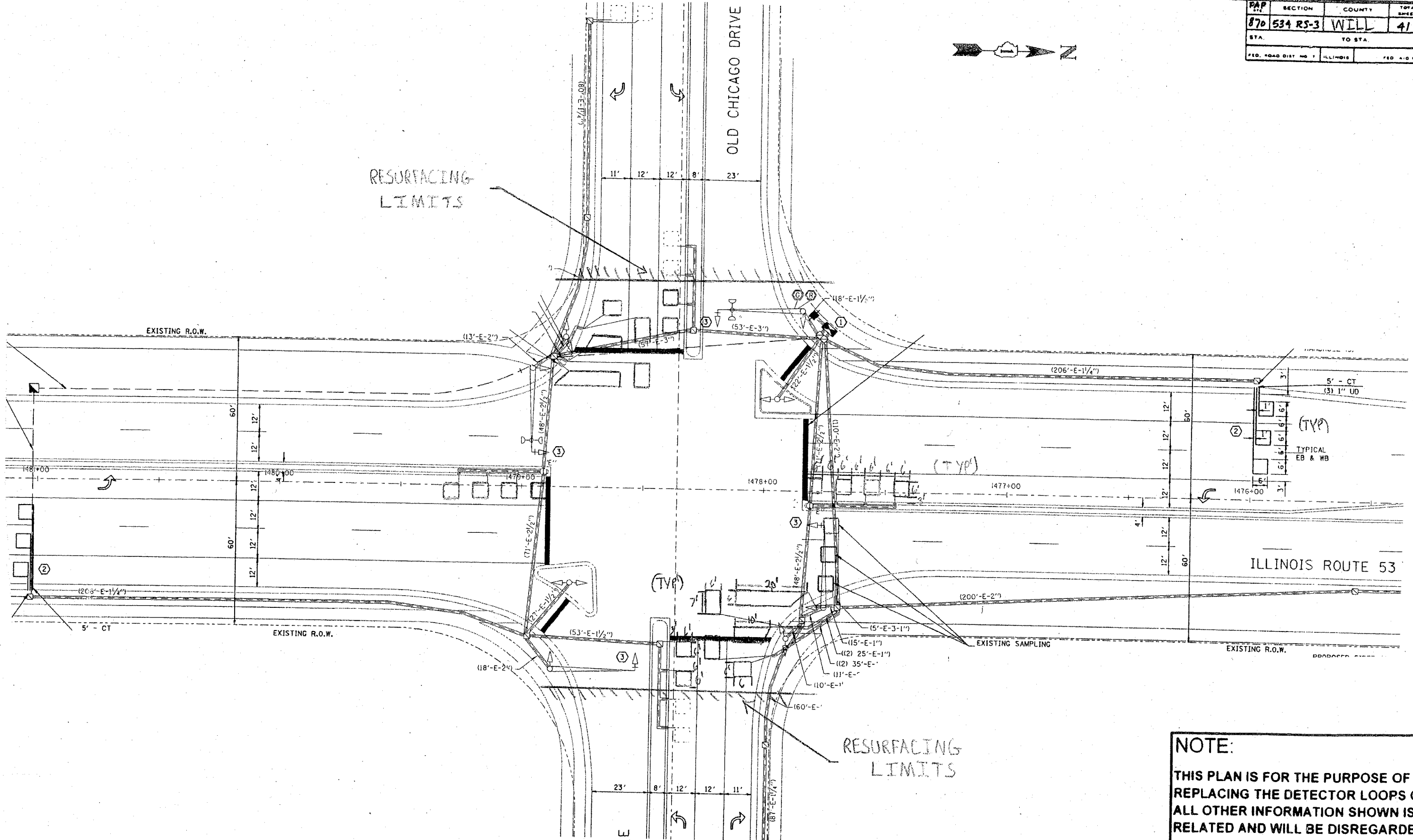
CODE NO.	QUANTITY	UNIT	ITEM
88600600	660	Foot	Detector Loop Replacement

NOTE:
THIS PLAN IS FOR THE PURPOSE OF REPLACING THE DETECTOR LOOPS ONLY. ALL OTHER INFORMATION SHOWN IS NOT RELATED AND WILL BE DISREGARDED.

ILLINOIS DEPARTMENT OF TRANSPORTATION
DETECTOR LOOP REPLACEMENT
ILL. RTE. 53 + CROSSROADS PARKWAY

REVISIONS	
NAME	DATE

SCALE: 1" = 40'
DATE: JAN 2008
DRAWN BY: JHE
DESIGNED BY: JHE
CHECKED BY: DAD



RESURFACING
LIMITS

RESURFACING
LIMITS

REPLACE ALL DETECTOR LOOPS AS SHOWN

(WITHIN THE RESURFACING LIMITS)

CODE NO.	QUANTITY	UNIT	ITEM
88600600	1090	Foot	Detector Loop Replacement

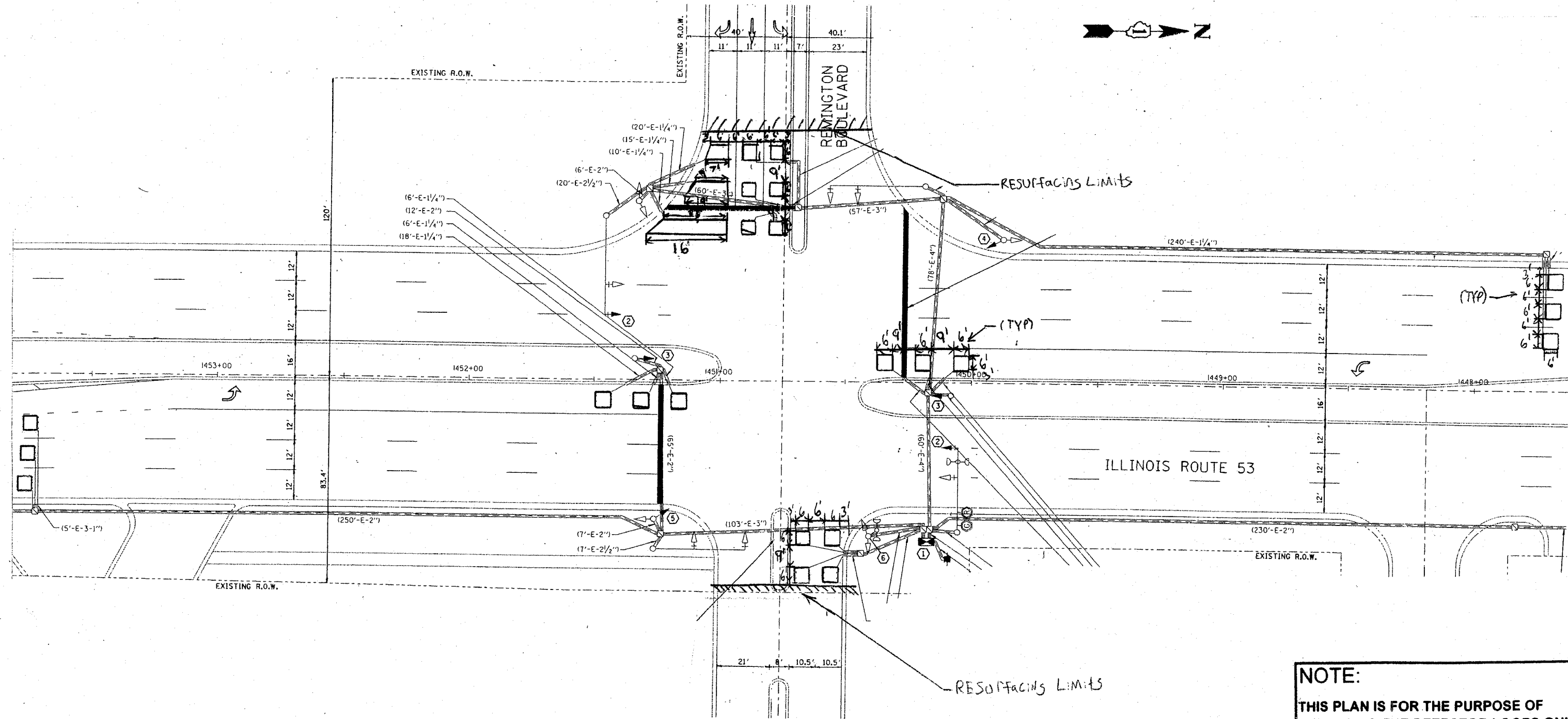
NOTE:
THIS PLAN IS FOR THE PURPOSE OF REPLACING THE DETECTOR LOOPS ONLY. ALL OTHER INFORMATION SHOWN IS NOT RELATED AND WILL BE DISREGARDED.

ILLINOIS DEPARTMENT OF TRANSPORTATION
DETECTOR LOOP REPLACEMENT
 ILL. RTE. 53 & OLD CHICAGO DR

SCALE: 1" = 20'
 DATE: JAN 2008

DRAWN BY: JHE
 DESIGNED BY: JHE
 CHECKED BY: DAD

REVISIONS	
NAME	DATE



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

CODE NO.	QUANTITY	UNIT	ITEM
88600600	927	Foot	Detector Loop Replacement

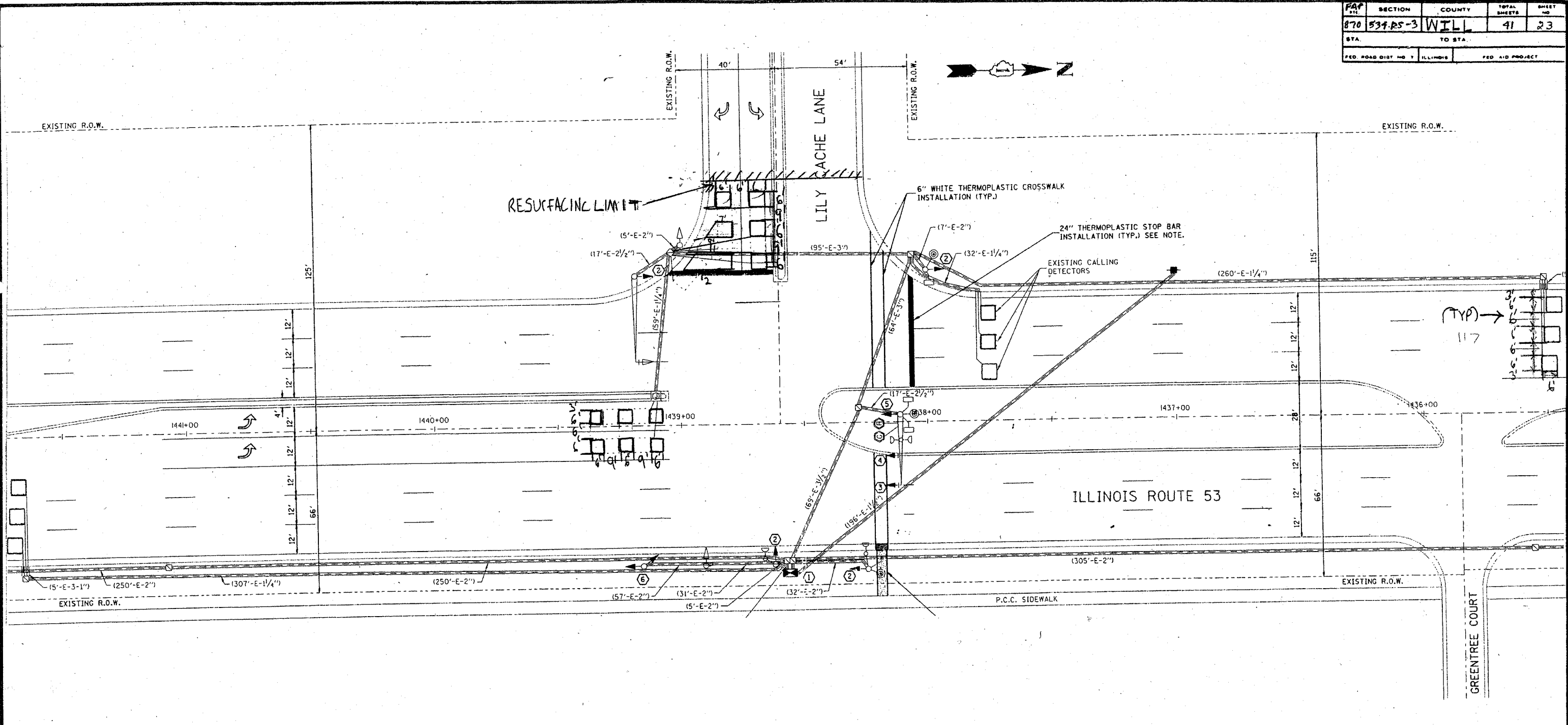
REVISIONS	
NAME	DATE

NOTE:
THIS PLAN IS FOR THE PURPOSE OF REPLACING THE DETECTOR LOOPS ONLY. ALL OTHER INFORMATION SHOWN IS NOT RELATED AND WILL BE DISREGARDED.

ILLINOIS DEPARTMENT OF TRANSPORTATION
DETECTOR LOOP REPLACEMENT
ILL. RTE. 53 + REMINGTON BLVD

SCALE: 1" = 20'
DATE: DEC 2007

DRAWN BY: JHE
DESIGNED BY: JHE
CHECKED BY: DAD.



NOTE:
 THIS PLAN IS FOR THE PURPOSE OF REPLACING THE DETECTOR LOOPS ONLY. ALL OTHER INFORMATION SHOWN IS NOT RELATED AND WILL BE DISREGARDED.

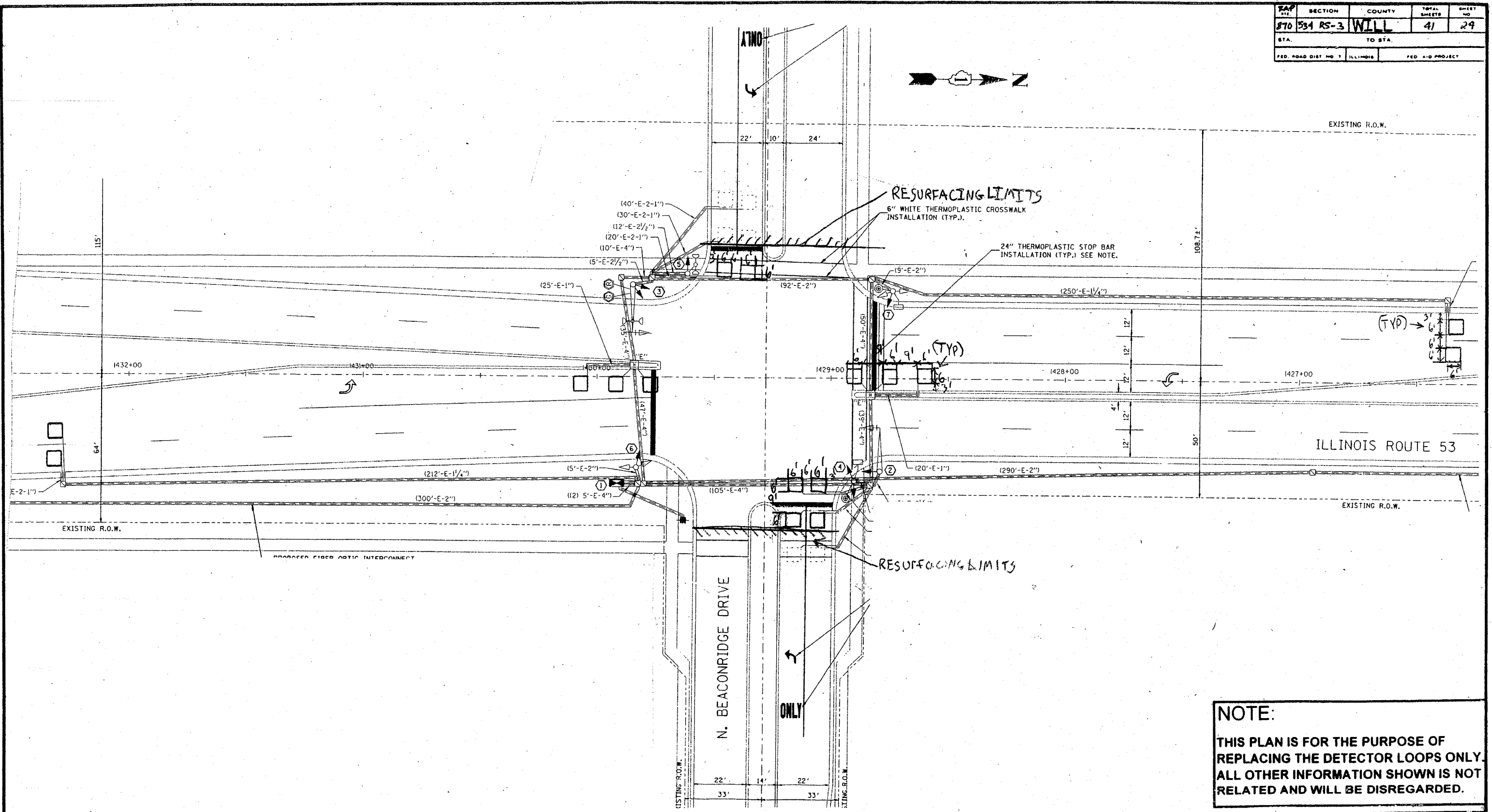
REPLACE ALL DETECTOR LOOPS AS SHOWN
 (WITHIN THE RESURFACING LIMITS)

CODE NO.	QUANTITY	UNIT	ITEM
88600600	772	Foot	Detector Loop Replacement

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
DETECTOR LOOP REPLACEMENT
 ILL. RTE. 53 + LILY CACHE LANE
 SCALE: 1" = 40'
 DATE DEC 2007
 DRAWN BY: J.H.E.
 DESIGNED BY: J.H.E.
 CHECKED BY: D.A.D.

SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
870 534 RS-3 WILL		41	29
STA. TO STA.		FED. ROAD DIST NO. 7 ILLINOIS FED. AID PROJECT	



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

CODE NO.	QUANTITY	UNIT	ITEM
88600600	492	Foot	Detector Loop Replacement

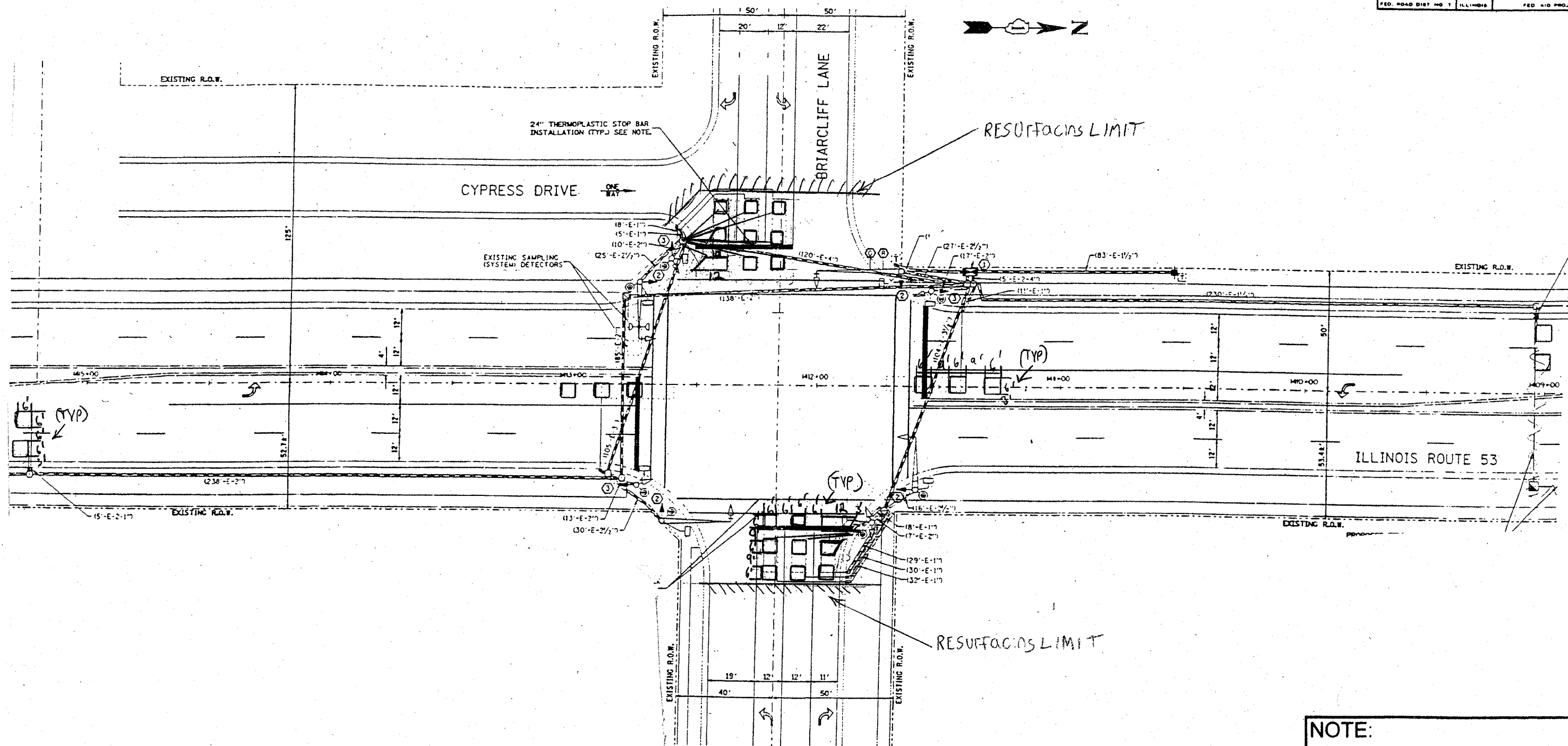
REVISIONS	
NAME	DATE

NOTE:
THIS PLAN IS FOR THE PURPOSE OF REPLACING THE DETECTOR LOOPS ONLY. ALL OTHER INFORMATION SHOWN IS NOT RELATED AND WILL BE DISREGARDED.

ILLINOIS DEPARTMENT OF TRANSPORTATION
DETECTOR LOOP REPLACEMENT
ILL. RTE. 53 + N. BEACONRIDGE DR

SCALE: 1" = 20'
DATE: DEC 2007

DRAWN BY: JHE
DESIGNED BY: JHE
CHECKED BY: DAD.



REPLACE ALL DETECTOR LOOPS AS SHOWN

(WITHIN THE RESURFACING LIMITS)

CODE NO.	QUANTITY	UNIT	ITEM
88600600	1176	Foot	Detector Loop Replacement

REVISIONS	
NAME	DATE

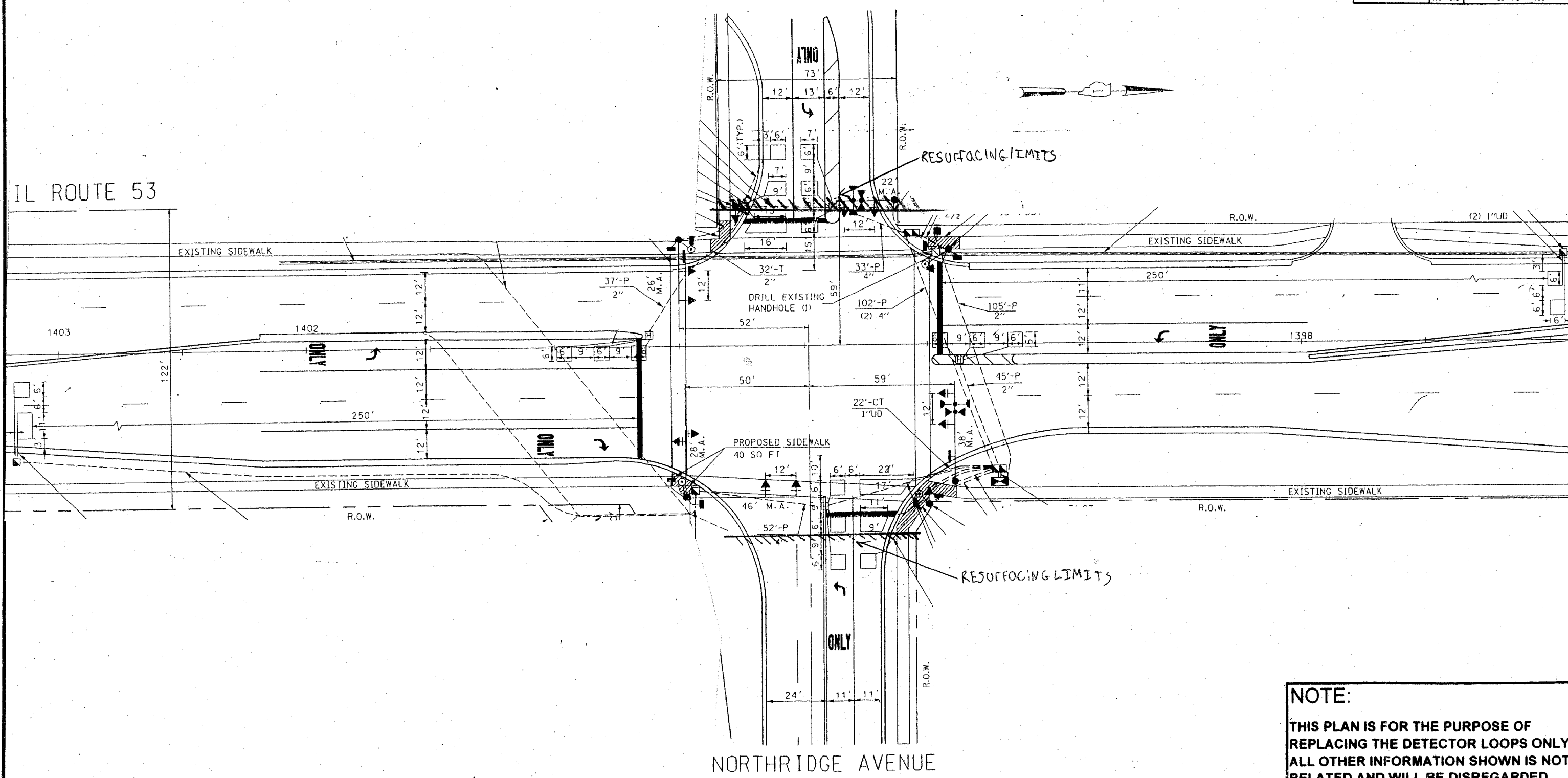
NOTE:
THIS PLAN IS FOR THE PURPOSE OF REPLACING THE DETECTOR LOOPS ONLY. ALL OTHER INFORMATION SHOWN IS NOT RELATED AND WILL BE DISREGARDED.

ILLINOIS DEPARTMENT OF TRANSPORTATION
DETECTOR LOOP REPLACEMENT
ILL RTE 53 + BRIARCLIFF LANE
SCALE: 1" = 20'
DATE DEC 2007
DRAWN BY: JHE
DESIGNED BY: JHE
CHECKED BY: DAD.

SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
870 534 RS-3	WILL	41	26
STA. TO STA.		FED. ROAD DIST. NO. 7 ILLINOIS	
		FED. AID PROJECT	

LEE LANE

IL ROUTE 53



NORTHRIDGE AVENUE

REPLACE ALL DETECTOR LOOPS AS SHOWN

(WITHIN THE RESURFACING LIMITS)

CODE NO.	QUANTITY	UNIT	ITEM
88600600	526'	Foot	Detector Loop Replacement

NOTE:
 THIS PLAN IS FOR THE PURPOSE OF REPLACING THE DETECTOR LOOPS ONLY. ALL OTHER INFORMATION SHOWN IS NOT RELATED AND WILL BE DISREGARDED.

ILLINOIS DEPARTMENT OF TRANSPORTATION
DETECTOR LOOP REPLACEMENT

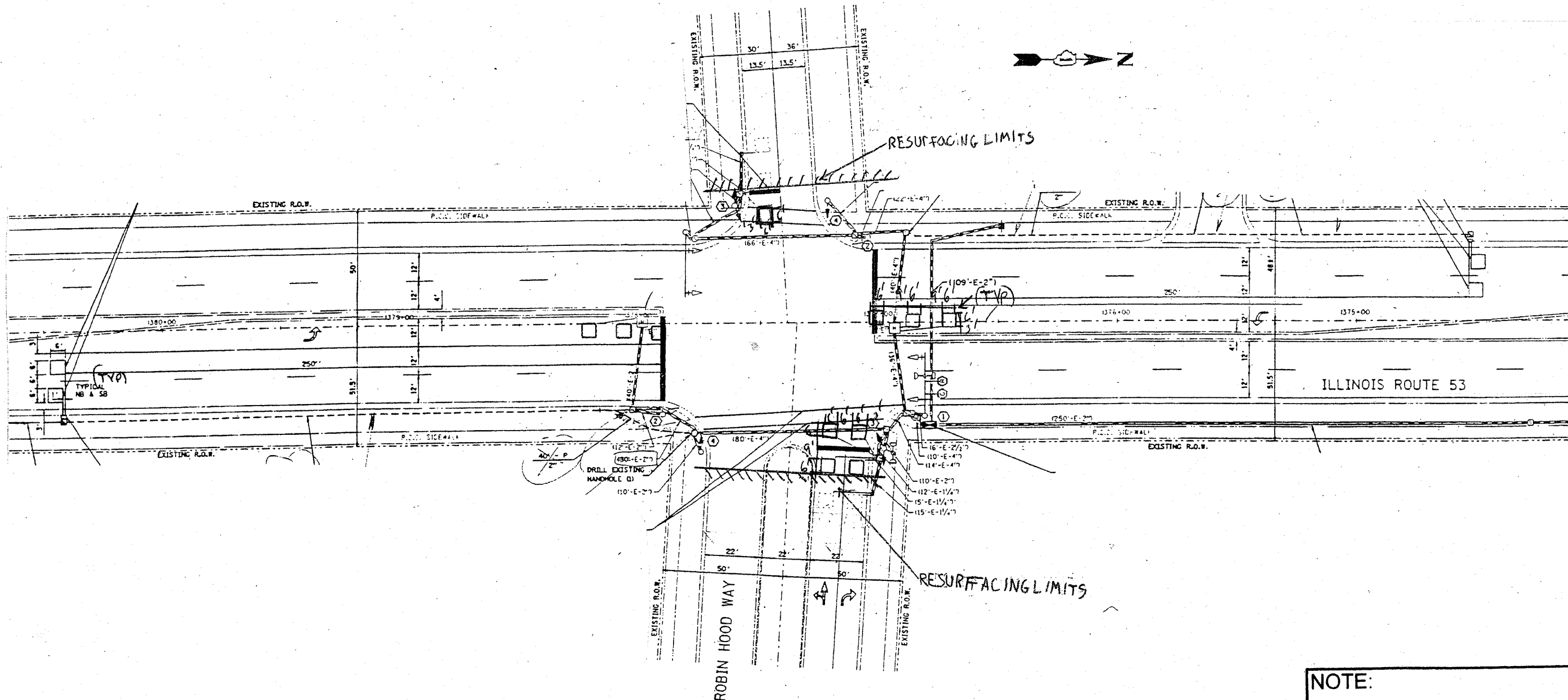
ILL. RTE 53 + NORTHRIDGE AVE/LEELANE

SCALE: 1" = 20'
 DATE DEC 2007

DRAWN BY: JHE
 DESIGNED BY: JHE
 CHECKED BY: DAD

REVISIONS	
NAME	DATE

PAP	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
870	534 85-3	WILL	41	27
STA.		TO STA.		
FED. ROAD DIST NO 1		ILLINOIS	FED AID PROJECT	



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

CODE NO.	QUANTITY	UNIT	ITEM
88600600	453	Foot	Detector Loop Replacement

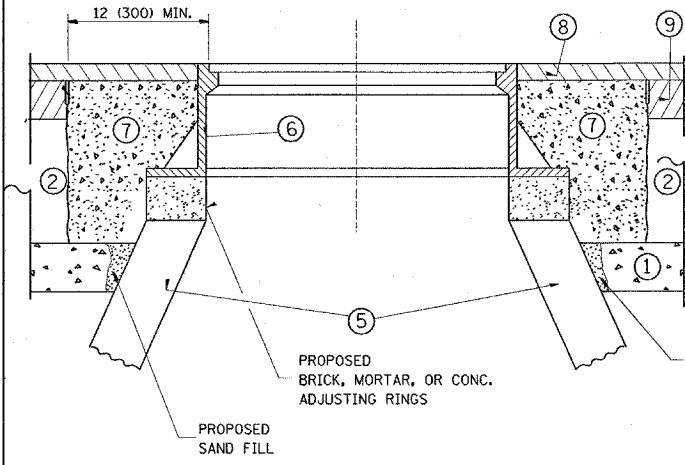
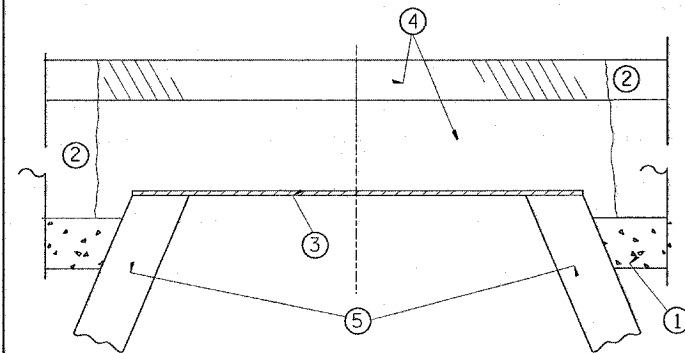
REVISIONS	
NAME	DATE

NOTE:
THIS PLAN IS FOR THE PURPOSE OF REPLACING THE DETECTOR LOOPS ONLY. ALL OTHER INFORMATION SHOWN IS NOT RELATED AND WILL BE DISREGARDED.

ILLINOIS DEPARTMENT OF TRANSPORTATION
DETECTOR LOOP REPLACEMENT
ILL. RTE 53 + ROBIN HOOD WAY

SCALE: 1" = 20'
DATE DEC 2007

DRAWN BY: JHE
DESIGNED BY: JHE
CHECKED BY: D.A.D.



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 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 SI CONCRETE, OR HMA SURFACE COURSE OR HMA BINDER COURSE TO THE ELEVATION OF THE SURFACE OF THE EXISTING BASE COURSE OR THE BINDER COURSE.

THE PROCEDURE EXPLAINED ABOVE SHALL CONFORM TO THE APPLICABLE PORTIONS OF SECTIONS 353, 406, 602, AND 603 OF THE STANDARD SPECIFICATIONS.

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 SI CONCRETE, HMA SURFACE COURSE OR HMA BINDER COURSE
- ⑧ PROPOSED HMA SURFACE COURSE
- ⑨ PROPOSED HMA BINDER COURSE

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.

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.

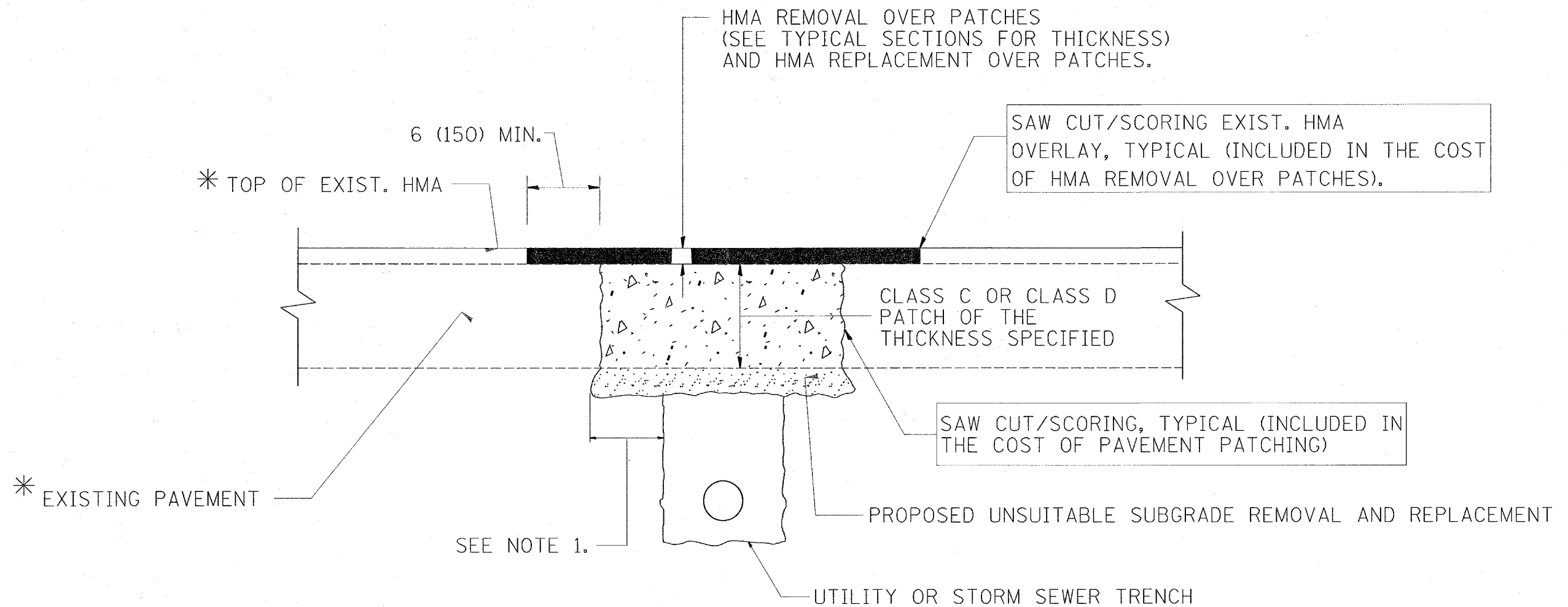
BASIS OF PAYMENT: THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER EACH FOR "FRAMES AND LIDS TO BE ADJUSTED, SPECIAL"

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

FILE NAME = c:\projects\dl16988\dl16988aa.dgn	USER NAME = abraueah	DESIGNED - R. SHAH	REVISED - R. SHAH 03-10-95	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DETAILS FOR FRAMES AND LIDS ADJUSTMENT WITH MILLING			F.A.P. RTE. 870	SECTION 534 RS-3	COUNTY WILL	TOTAL SHEETS 41	SHEET NO. 28
		DRAWN -	REVISED - A. ABBAS 03-21-97		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA. TO STA.	BD600-03 (BD-8)		CONTRACT NO. 60E08		
		PLOT SCALE = 50.0000' / IN.	REVISOR - R. WIEDEMAN 05-14-04		FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT							
		PLOT DATE = 2/28/2008	DATE - 10-25-94		REVISED - R. BORO 01-01-07							



* 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

1. REMOVE THE EXISTING HMA MATERIAL OVER THE AREA TO BE PATCHED.
2. REMOVE AND REPLACE FULL DEPTH PATCHES
3. REPLACE HMA MATERIAL OVER THE AREA TO BE PATCHED.

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

FILE NAME = c:\projects\dl16908\dl16908a.dgn	USER NAME = abrahah	DESIGNED - R. SHAH	REVISED - A. ABBAS 01-20-98	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PAVEMENT PATCHING FOR HMA SURFACED PAVEMENT			F.A.P. RTE. 870	SECTION 534 RS-3	COUNTY WILL	TOTAL SHEETS 41	SHEET NO. 29
PLLOT SCALE = 50.0000' / IN.	CHECKED -	REVISED - A. ABBAS 04-27-98	REVISED - R. BORO 01-01-07					SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.			BD400-04 (BD-22)	
PLOT DATE = 2/20/2008	DATE - 10-25-94	REVISED - R. BORO 09-04-07										
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 OR GROUND.

PROPOSED SIDEWALK, DRIVEWAY PAVEMENT, MEDIAN SURFACE OR SALT TOLERANT SOD AND 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.)

* 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.

SALT TOLERANT SOD AND TOP SOIL, 4" (100) RESTORATION WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE COST OF CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT.

② CURB OR CURB AND GUTTER REPLACEMENT SHALL MATCH THE SHAPE OF THE EXISTING CURB OR CURB AND GUTTER UNLESS OTHERWISE SPECIFIED.

③ FOR CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT ADJACENT TO FLEXIBLE PAVEMENT DELETE EPOXY COATED TIE BARS.

④ 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.

⑤ 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.

⑥ 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.

⑦ 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.

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.

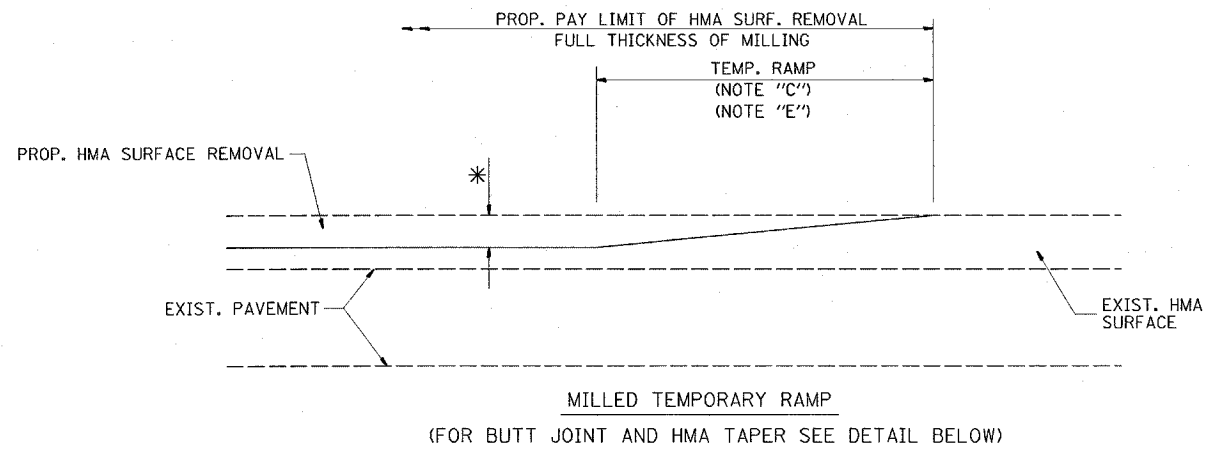
PROPOSED #6 (20) EPOXY COATED TIE BARS 24" (600) LONG AT 24" (600) CENTERS WILL NOT BE PAID FOR SEPARATELY. DELETE EPOXY COATED TIE BARS IF EXISTING TIE BARS ARE USUABLE AS DETERMINED BY THE ENGINEER. (SEE NOTE ③).

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".

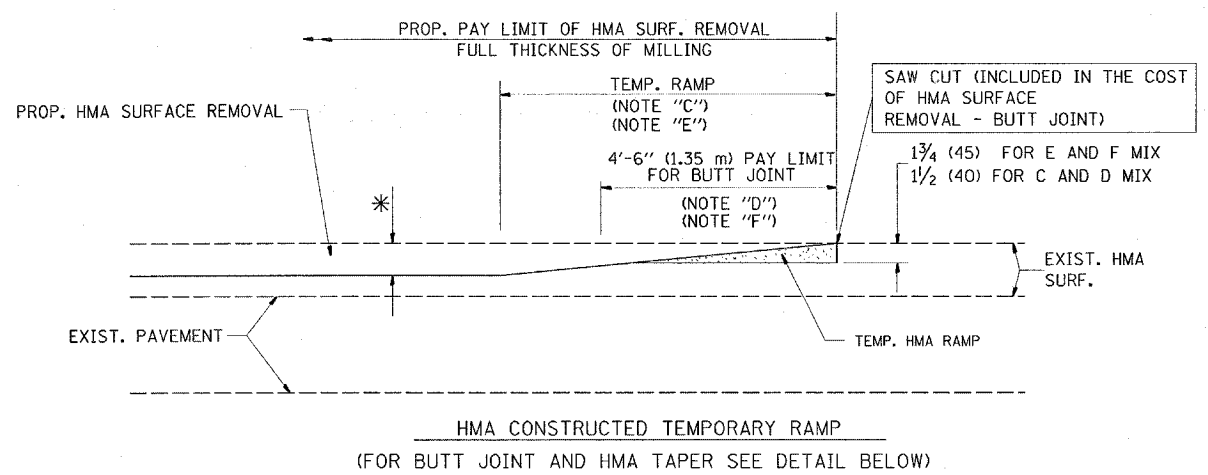
CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT

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

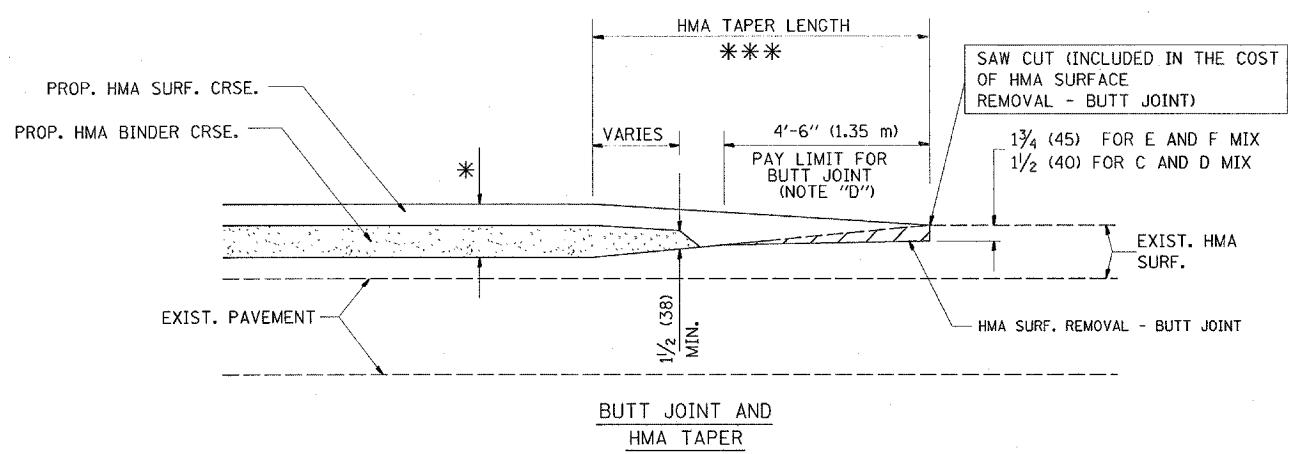
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PLOT SCALE = 50.0000 "/> <td>CHECKED - M. GOMEZ 01-22-01</td> <td>REVISED - M. GOMEZ 01-22-01</td> <td>REVISED - R. BORO 01-01-07</td> <td>SCALE: NONE</td> <td>SHEET NO. 1 OF 1 SHEETS</td> <td>STA. TO STA.</td> <td colspan="2">CONTRACT NO. 60E08</td>	CHECKED - M. GOMEZ 01-22-01	REVISED - M. GOMEZ 01-22-01	REVISED - R. BORO 01-01-07			SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA. TO STA.	CONTRACT NO. 60E08		
PLOT DATE = 2/28/2008	DATE - 03-11-94	REVISED - R. BORO 01-01-07				FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT					



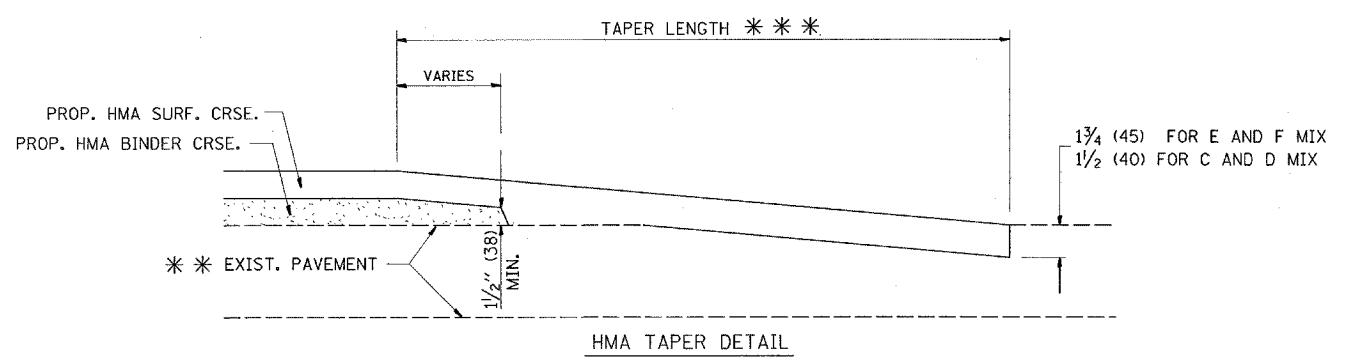
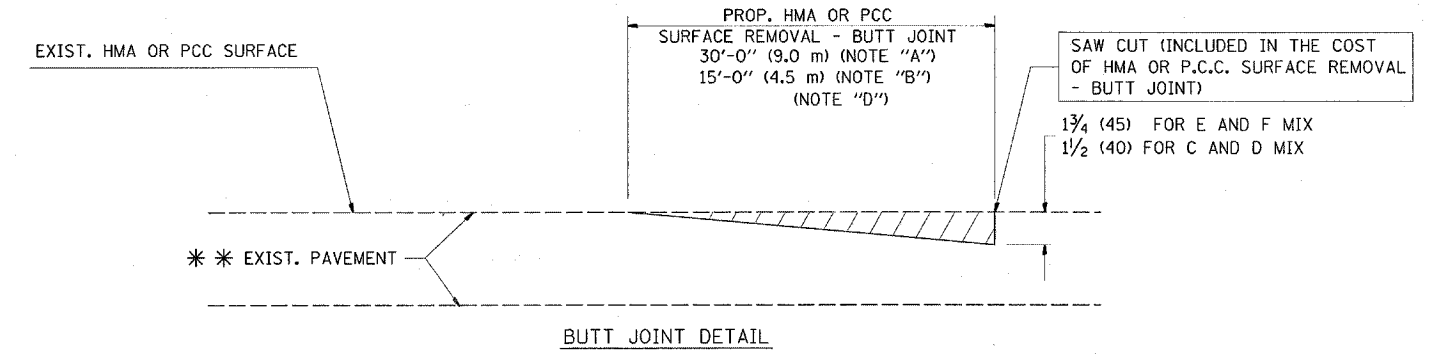
OPTION 1



OPTION 2
TYPICAL TEMPORARY RAMP



TYPICAL BUTT JOINT AND HMA TAPER
FOR MILLING AND RESURFACING



TYPICAL BUTT JOINT AND HMA TAPER
FOR RESURFACING ONLY

*** PC CONCRETE, HMA OR HMA RESURFACED PAVEMENT.

NOTES

- A: MAINLINE ROADWAYS AND MAJOR SIDE ROADS.
 - B: MINOR SIDE ROADS.
 - C: THE TEMP. RAMP SHALL BE CONSTRUCTED IMMEDIATELY UPON REMOVAL OF THE EXISTING HMA SURFACE.
 - D: THE BUTT JOINT SHALL BE CONSTRUCTED IMMEDIATELY PRIOR TO PLACING THE PROPOSED HMA COURSES.
 - E: TAPER THE TEMP. RAMP AT A RATE OF 3'-0" (900 mm) PER 1 INCH (25 mm) OF MILLING THICKNESS.
 - F: INSTALLATION AND REMOVAL OF THE 4'-6" (1.35 m) TEMP. RAMP IS INCLUDED IN COST OF HMA SURFACE REMOVAL - BUTT JOINT
 - G: SEE ARTICLE 406.08 AND 406.14 OF THE STANDARD SPECIFICATIONS FOR "HMA AND/OR PCC SURFACE REMOVAL, BUTT JOINT".
- * SEE TYPICAL SECTIONS FOR MILLING THICKNESS.
- *** 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.

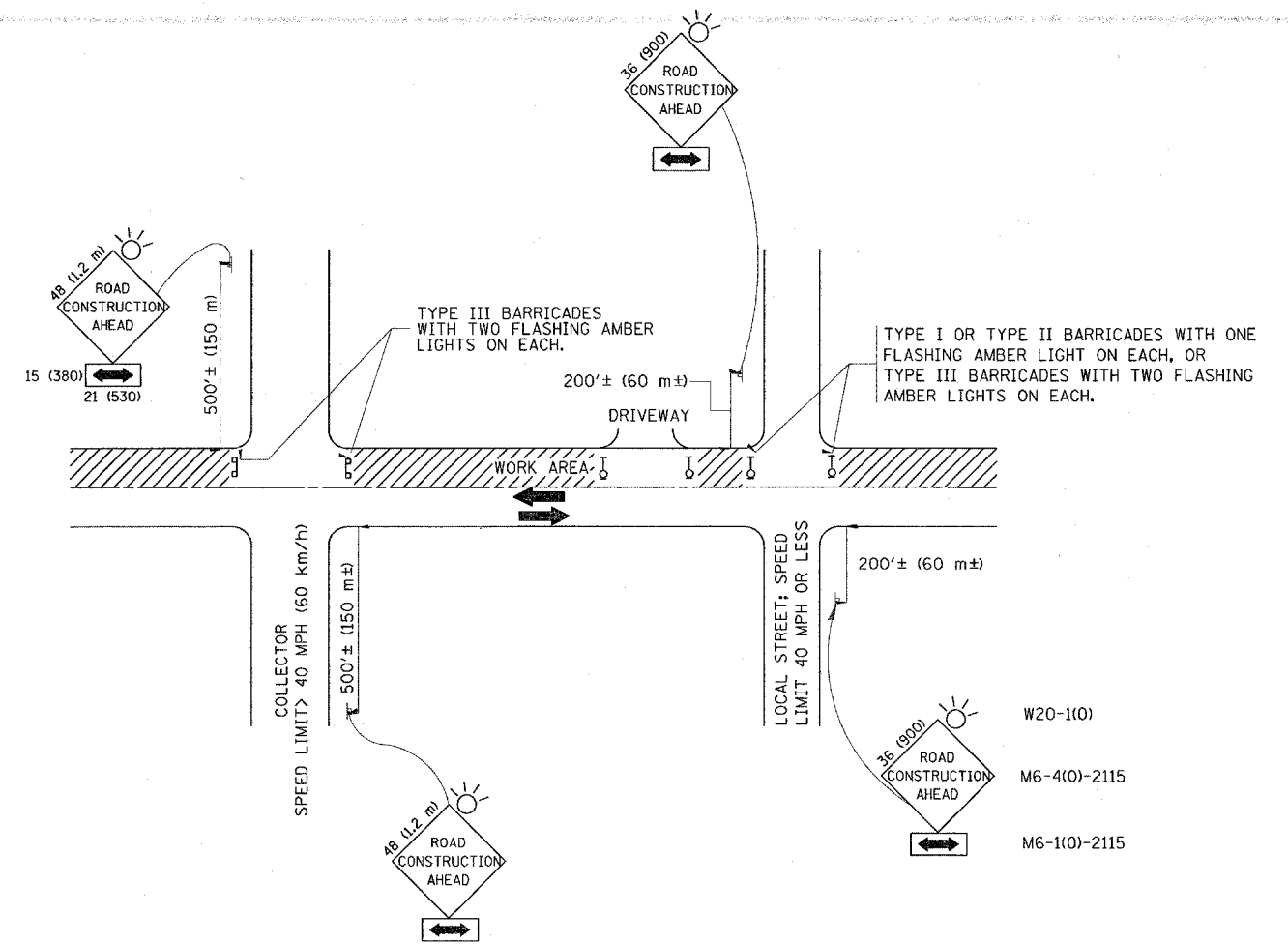
FILE NAME =	USER NAME = abreuah	DESIGNED - M. DE YONG	REVISED - R. SHAH 10-25-94
PROJECTS\116908\116908.dgn		DRAWN -	REVISED - A. ABBAS 03-21-97
	PLOT SCALE = 50.0000' / IN.	CHECKED -	REVISED - M. GOMEZ 04-06-01
	PLOT DATE = 2/20/2006	DATE - 06-13-90	REVISED - R. BORO 01-01-07

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BUTT JOINT AND
HMA TAPER DETAILS

SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. 60E08 TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
870	534 RS-3	WILL	41	31
BD400-05 BD32			CONTRACT NO. 60E08	
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.

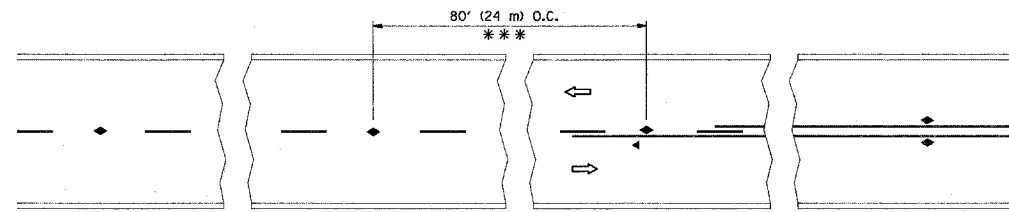
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		PLOT SCALE = 50.0000' / IN.	REVISED - A. HOUSEH 10-15-96
		PLOT DATE = 2/20/2008	REVISED - T. RAMMACH 01-06-00
		DATE - 06-89	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

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

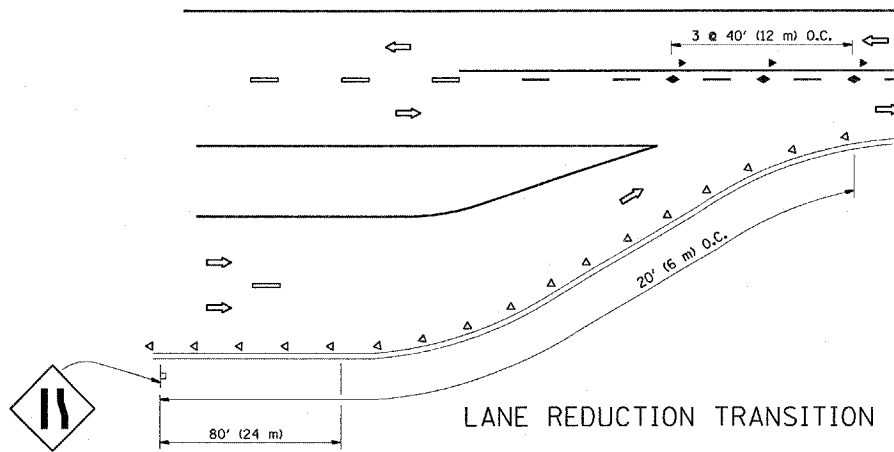
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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TC-10			CONTRACT NO. 60E08	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

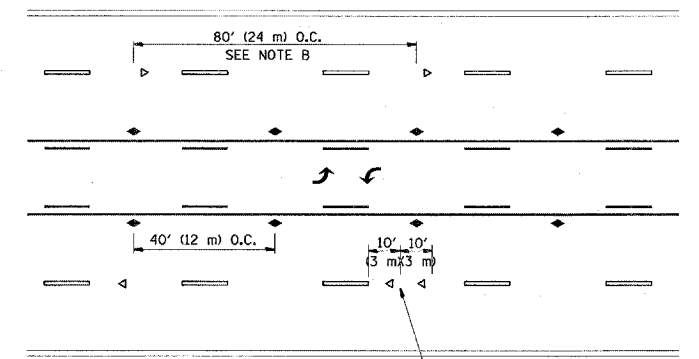


*** REDUCE TO 40' (12 m) O.C. ON CURVES WITH POSTED OR ADVISORY SPEED 45 M.P.H. (70 km/h) OR LESS.

TWO-LANE/TWO-WAY

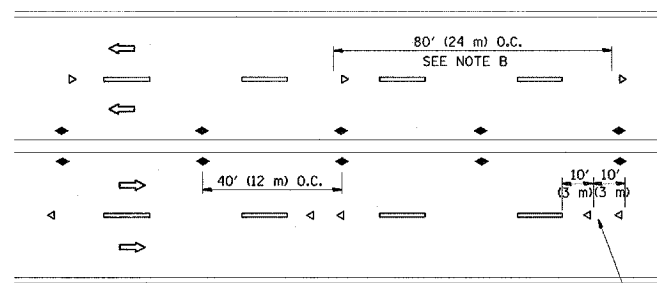


LANE REDUCTION TRANSITION



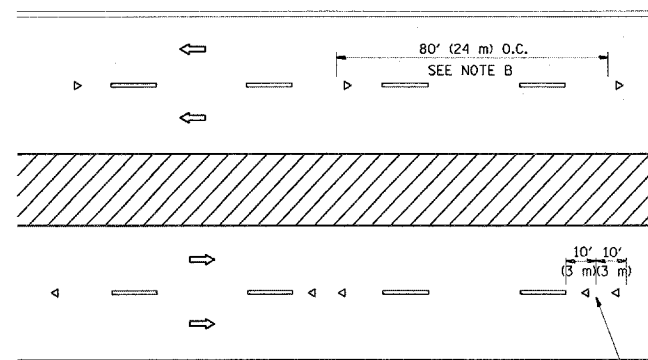
SEE NOTE A

TWO-WAY LEFT TURN



SEE NOTE A

MULTI-LANE/UNDIVIDED



SEE NOTE A

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

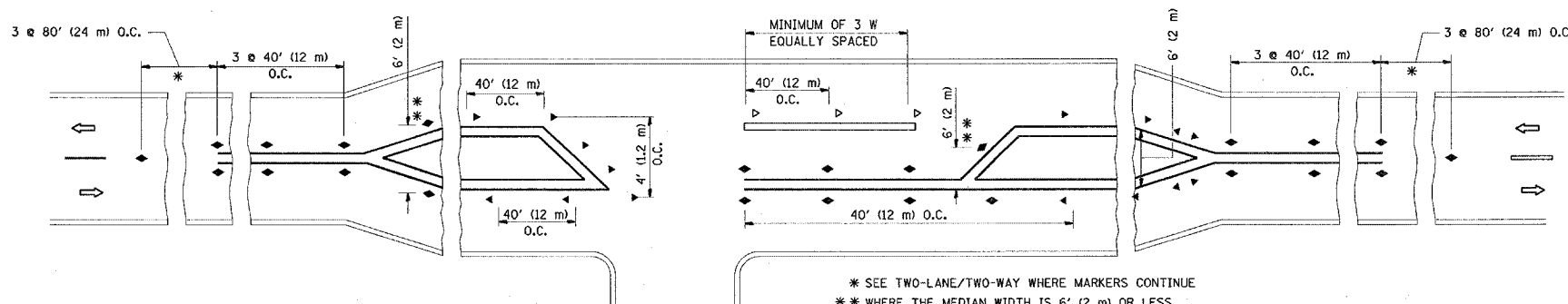
- YELLOW STRIPE
- WHITE STRIPE
- ◀ ONE-WAY AMBER MARKER
- ◁ ONE-WAY CRYSTAL MARKER (W/O)
- ◆ TWO-WAY AMBER MARKER

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.



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

LEFT TURN

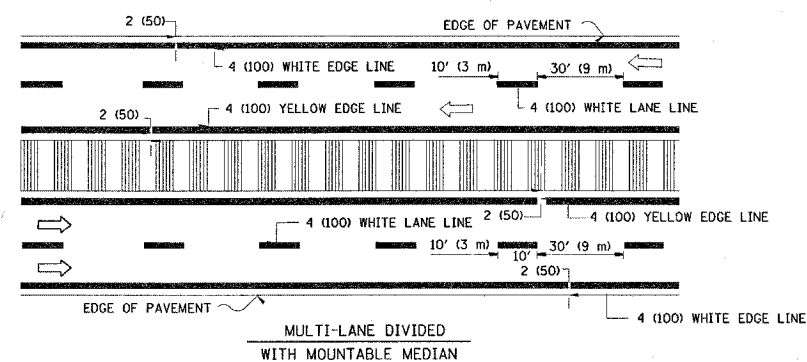
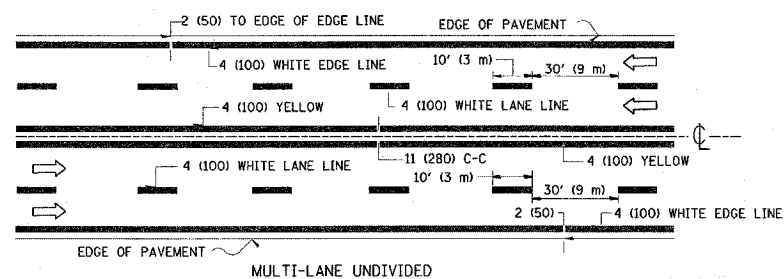
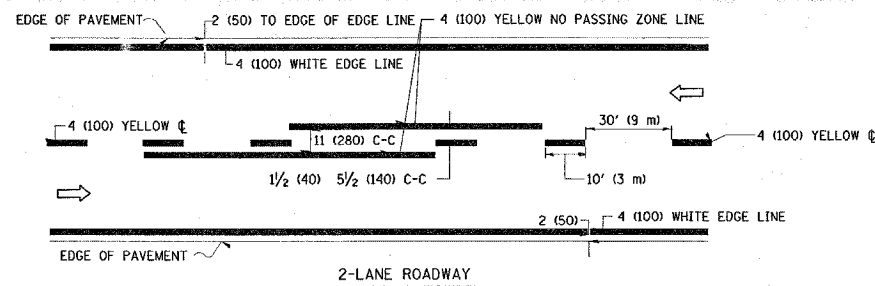
All dimensions are in inches (millimeters) unless otherwise shown.

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		DRAWN -	REVISED - T. RAMMACHER 03-12-99
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	PLOT DATE = 2/20/2008	DATE -	REVISED -

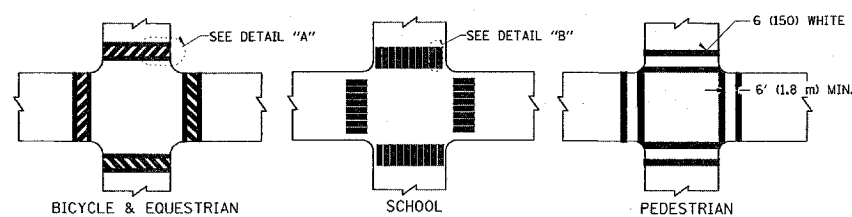
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TYPICAL APPLICATIONS			
RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT)			
SCALE: NONE	SHEET NO. 1	OF 1 SHEETS	STA. TO STA.

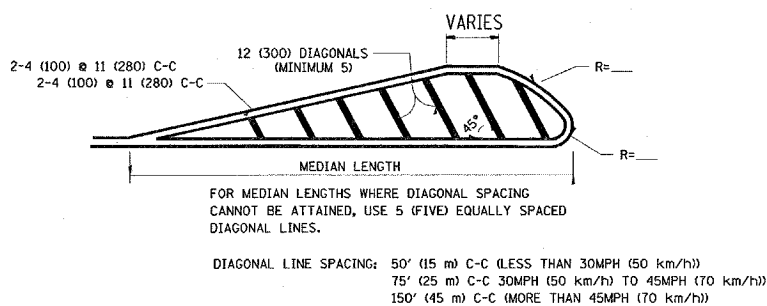
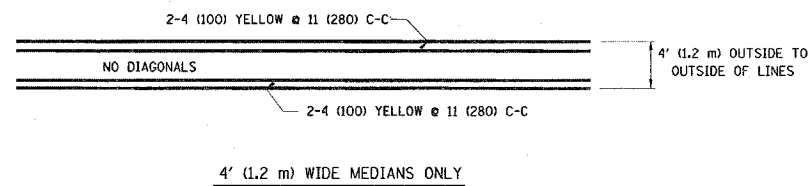
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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TC-11			CONTRACT NO. 60E08	
FED. ROAD DIST. NO. 1 (ILLINOIS) FED. AID PROJECT				



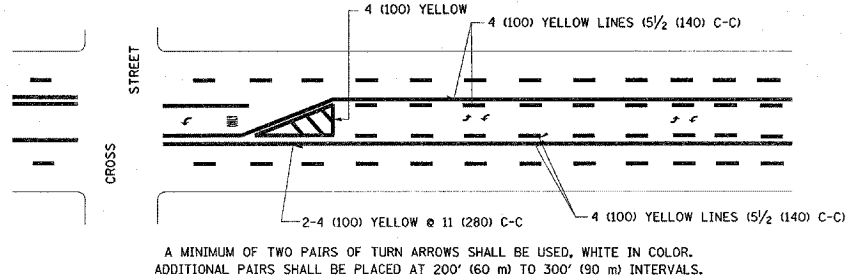
TYPICAL LANE AND EDGE LINE MARKING



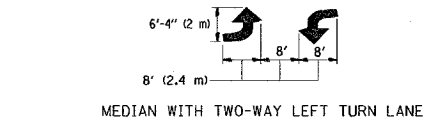
TYPICAL CROSSWALK MARKING



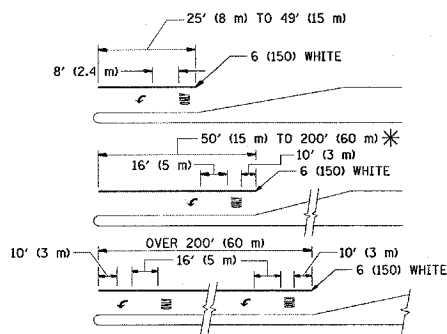
MEDIANS OVER 4' (1.2 m) WIDE



TYPICAL PAINTED MEDIAN MARKING

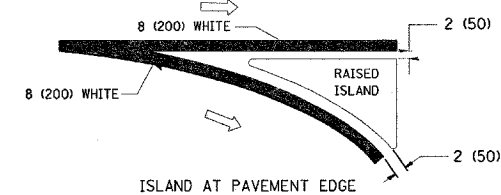
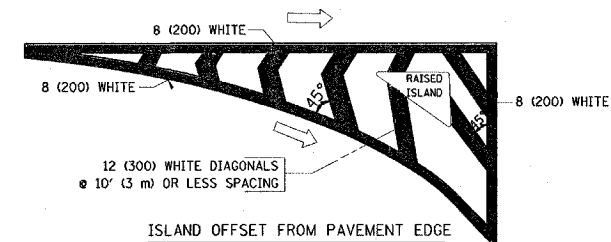


MEDIAN WITH TWO-WAY LEFT TURN LANE



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 m²) EACH "X"=54.0 SQ. FT. (5.0 m²)
SHOULDER DIAGONALS	12 (300) @ 45°	SOLID	WHITE - RIGHT YELLOW - LEFT	50' (15 m) C-C (LESS THAN 30MPH (50 km/h)) 75' (25 m) C-C (30 MPH (50 km/h) TO 45MPH (70 km/h)) 150' (45 m) C-C (OVER 45MPH (70 km/h))

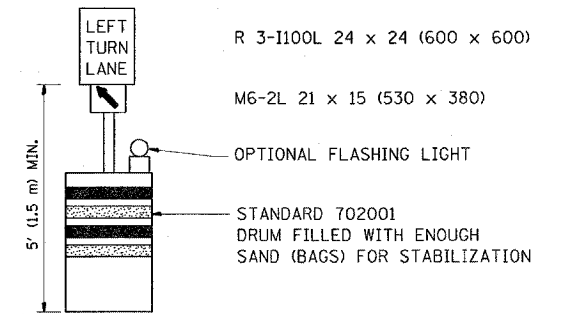
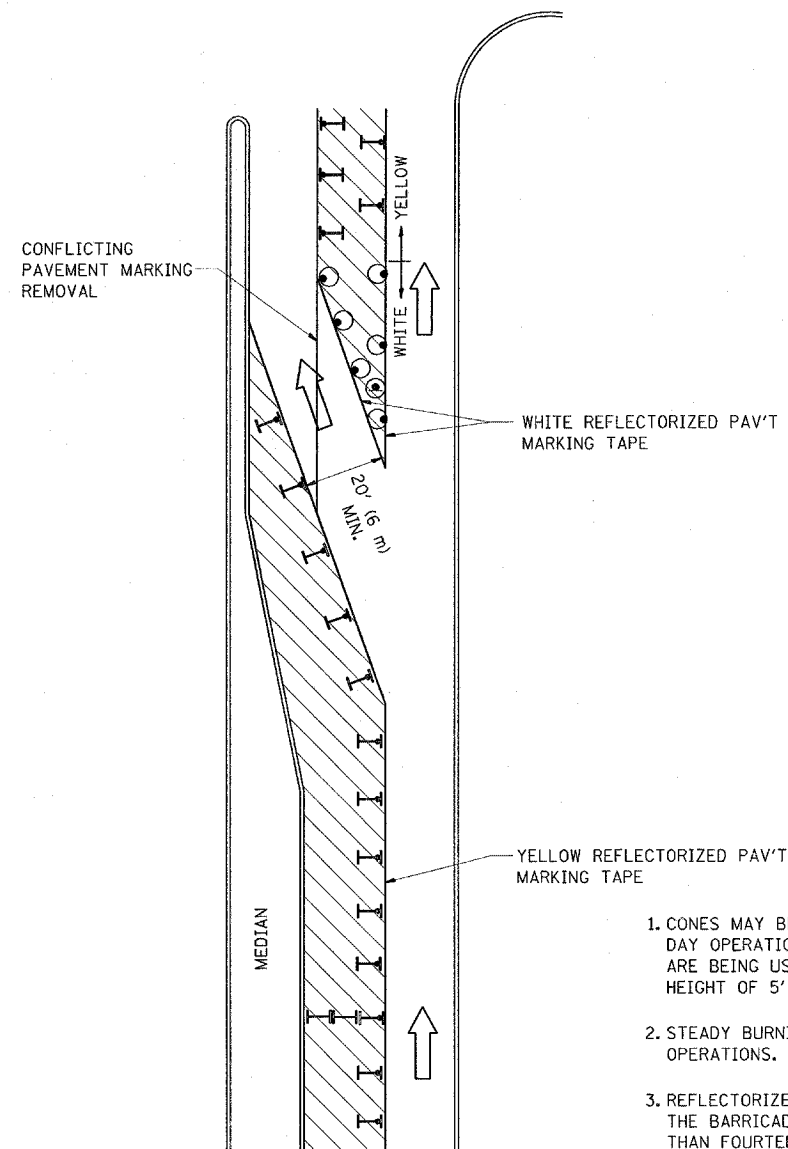
FOR FURTHER DETAILS ON PAVEMENT MARKING REFER TO STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND STATE STANDARD 780001.

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

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		DRAWN -	REVISED - A. HOUSEH 10-09-96
	PLOT SCALE = 58.2000 / IN.	CHECKED -	REVISED - A. HOUSEH 10-17-96
	PLOT DATE = 2/20/2008	DATE - 03-19-90	REVISED - T. RAMMACHER 01-06-00

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
TYPICAL PAVEMENT MARKINGS		870	534 RS-3	WILL	41	34
SCALE: NONE		TC-13		CONTRACT NO. 60E08		
SHEET NO. 1 OF 1 SHEETS		FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

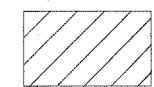







GENERAL NOTES

1. CONES MAY BE SUBSTITUTED FOR BARRICADES OR DRUMS AT HALF THE SPACING DURING DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 28 (710) IN HEIGHT. WHEN CONES ARE BEING USED, THE "LEFT TURN LANE" SIGN MAY BE SKID MOUNTED AT A MINIMUM HEIGHT OF 5' (1.5 m).
2. STEADY BURNING LIGHTS WILL NOT BE REQUIRED ON BARRICADES OR DRUMS FOR DAY OPERATIONS. ALL LIGHTS SHALL BE MONODIRECTIONAL.
3. REFLECTORIZED TEMPORARY PAVEMENT MARKING TAPE SHALL BE PLACED THROUGHOUT THE BARRICADED AREA OF EACH TURN BAY WHERE THE CLOSURE TIME IS GREATER THAN FOURTEEN DAYS.
4. THIS APPLICATION ALSO APPLIES WHEN WORK IS BEING PERFORMED IN THE RIGHT LANE(S) AND THE RIGHT TURN BAY IS TO REMAIN OPEN. UNDER THIS CONDITION, "RIGHT TURN LANE" R3-100 24 x 24 (600 x 600) AND M6-2R 21 x 15 (530 x 380) SHALL BE USED.
5. THESE CONTROLS SHALL SUPPLEMENT MAINLINE TRAFFIC CONTROL FOR LANE CLOSURES.
6. LONGITUDINAL DIMENSIONS MAY BE ADJUSTED TO FIT FIELD CONDITIONS.
7. FORM BT 725 IS REQUIRED.
8. TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TO REMAIN OPEN TO TRAFFIC) SHALL BE INCLUDED IN THE COST SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

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

LEGEND

-  WORK AREA
-  LANE OPEN TO TRAFFIC
-  TYPE I OR II BARRICADE WITH STEADY BURN LIGHT
-  DRUM WITH STEADY BURN LIGHT
-  DRUM WITH SIGN (WITH OPTIONAL FLASHING LIGHT) SEE DETAIL
-  TYPE I OR II CHECK BARRICADE WITH FLASHING LIGHT

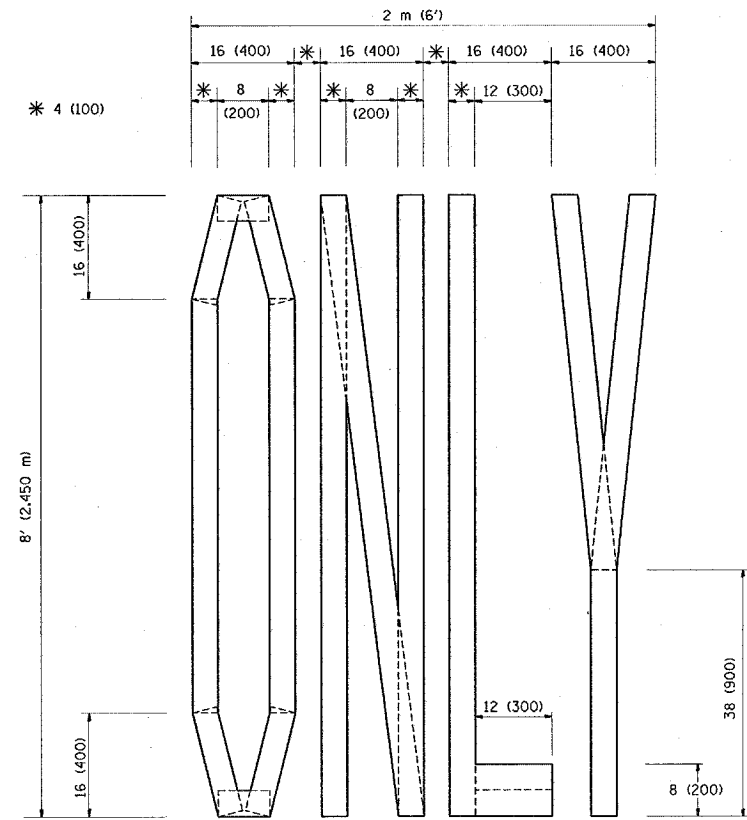
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TRAFFIC CONTROL AND PROTECTION AT TURN BAYS
(TO REMAIN OPEN TO TRAFFIC)**

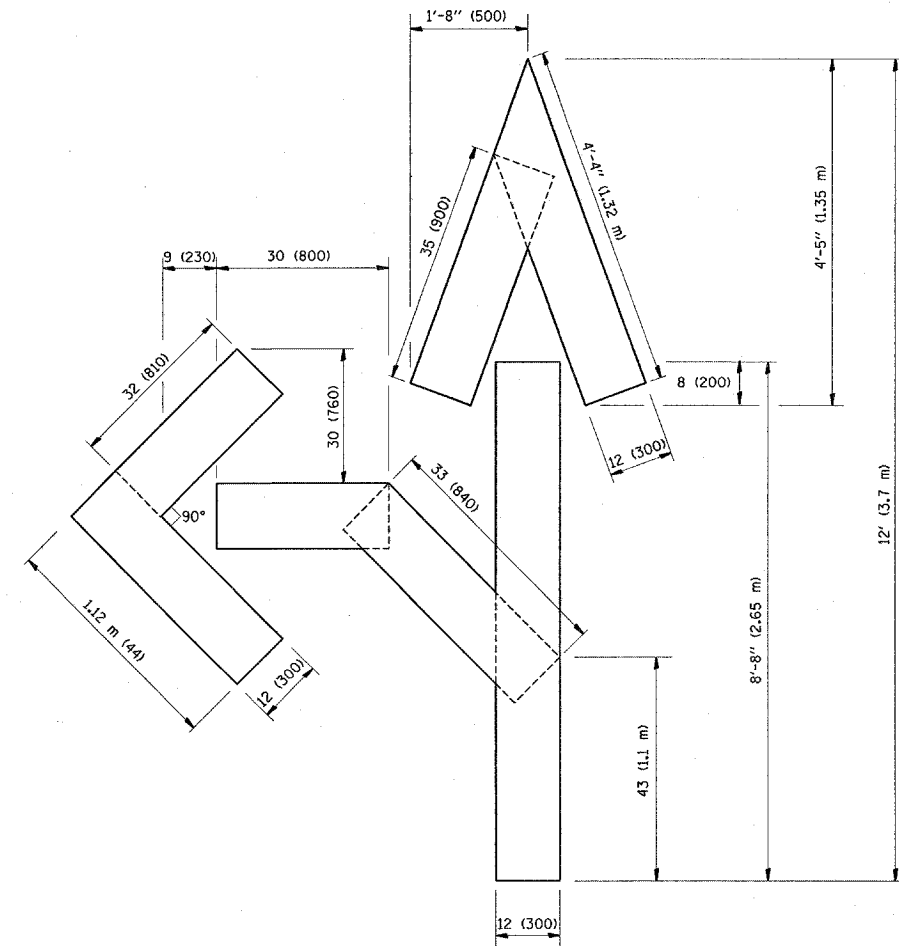
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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TC-14			CONTRACT NO. 60E08	
FED. ROAD DIST. NO. 1 (ILLINOIS) FED. AID PROJECT				

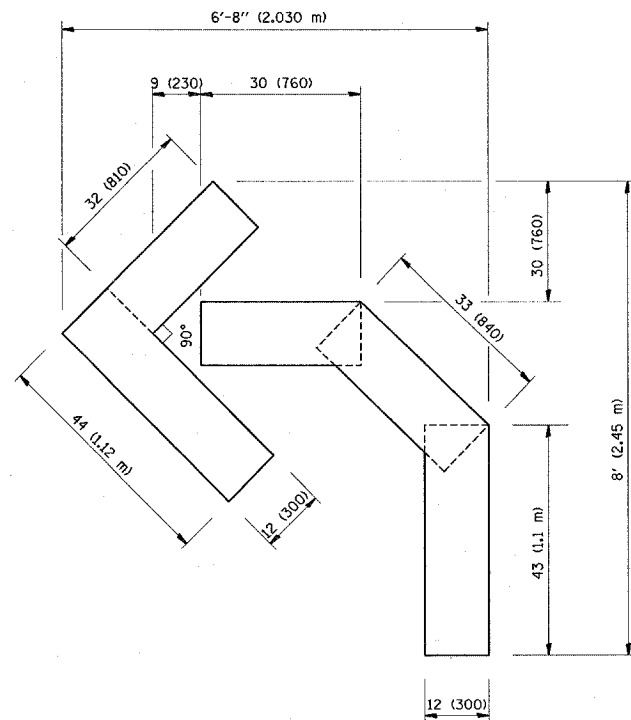
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	PLOT SCALE = 50.0000' / IN.	CHECKED -	REVISED - A. HOUSEH 10-12-96
	PLOT DATE = 2/28/2008	DATE -	REVISED - T. RAMMACHER 01-06-00



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)

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

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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

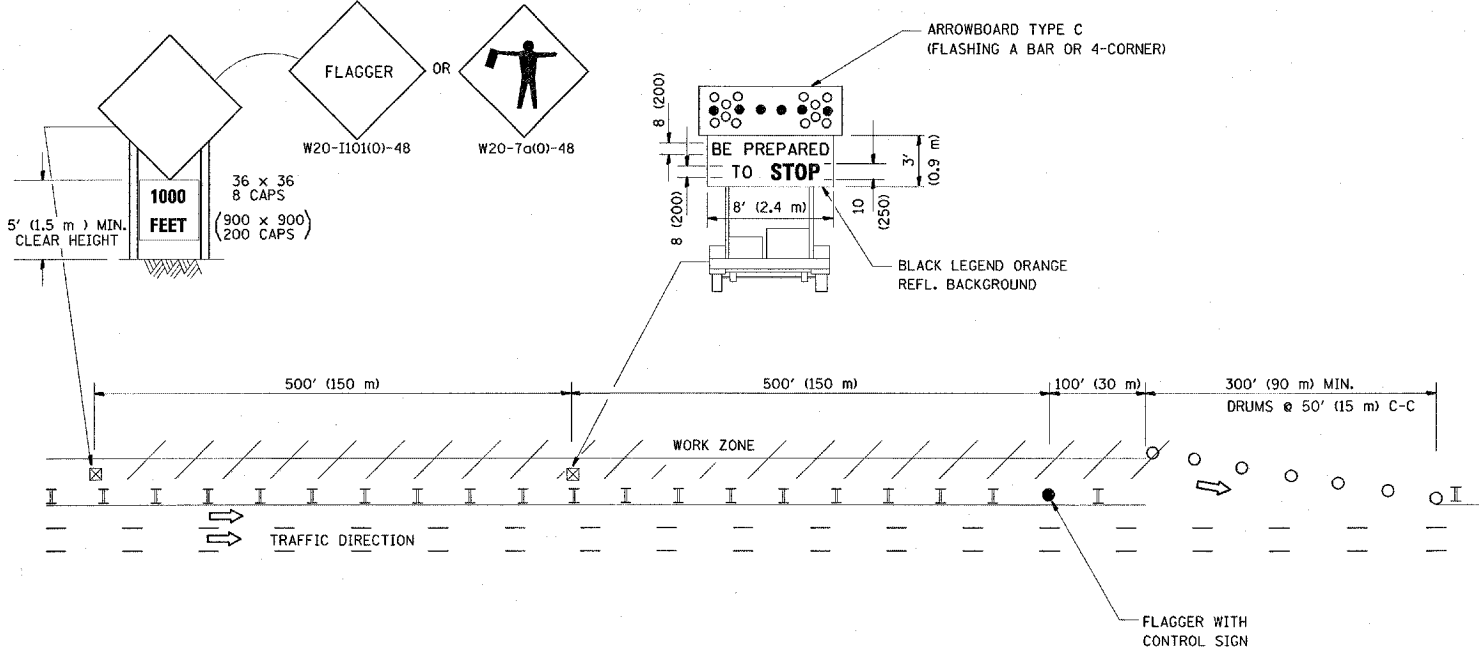
PAVEMENT MARKING LETTERS AND SYMBOLS
 FOR TRAFFIC STAGING

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

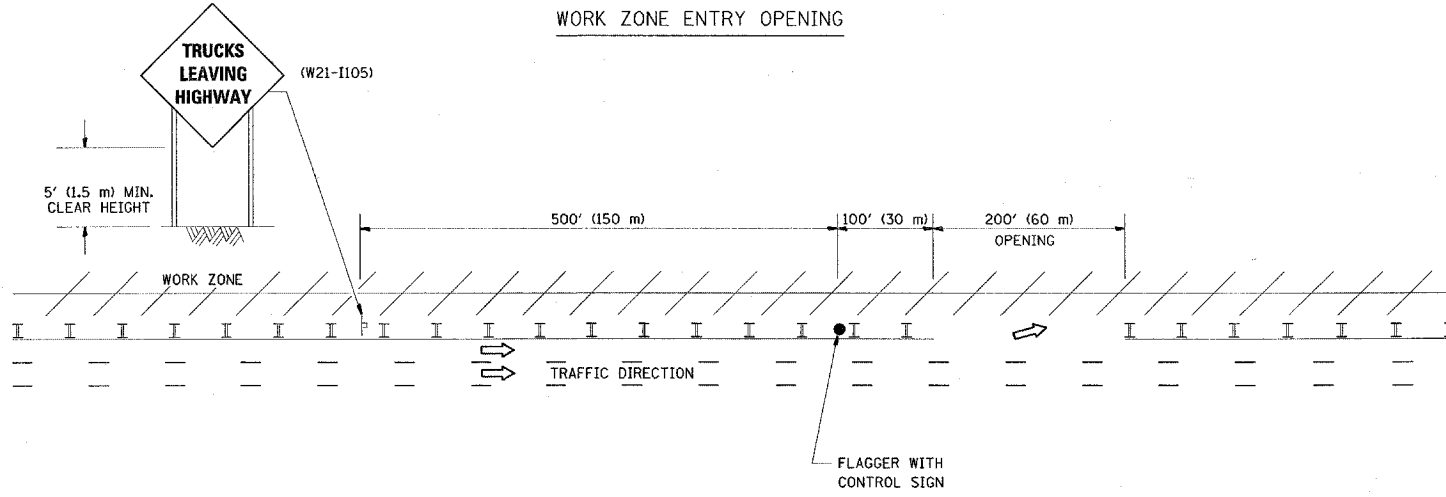
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TC-16			CONTRACT NO. 60E08	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

SIGNING FOR FLAGGING OPERATIONS AT WORK ZONE OPENINGS

WORK ZONE EXIT OPENING



WORK ZONE ENTRY OPENING



NOTES:

1. The Arrowboard, the Flagger Ahead trailer mounted sign, and the Trucks Leaving Highway sign shall be removed or turned away from traffic and the exit and entry openings shall be closed when the flagging operation ceases.
2. Work Zone Exit Openings should be a minimum of one half mile apart.
3. Exiting the work zone at any place other than at a Work Zone Exit Opening will be prohibited.
4. All vehicles shall enter the work zone at entry openings, using their turn signals to warn motorists

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN

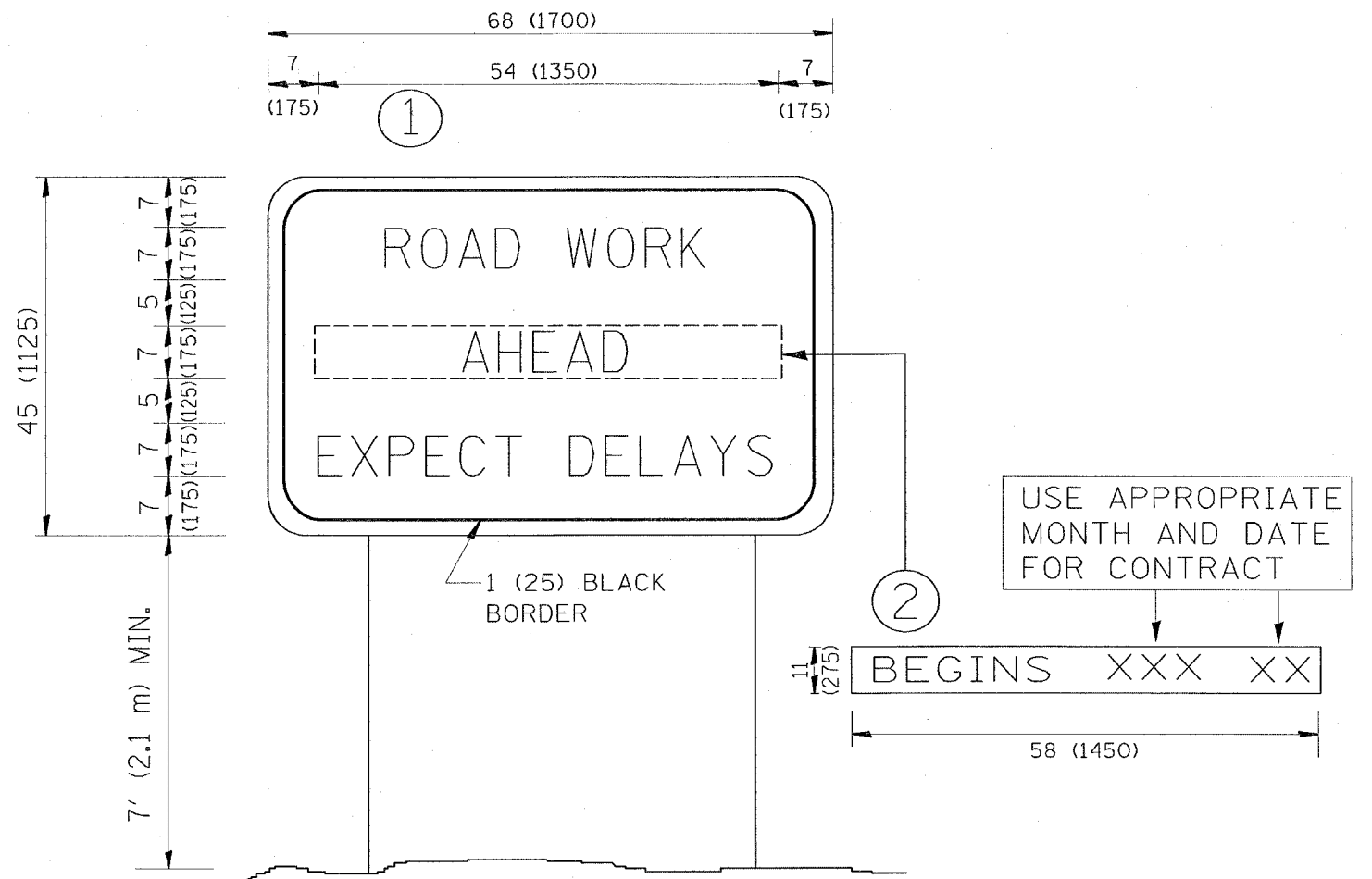
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			REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SIGNING FOR FLAGGING OPERATIONS
AT WORK ZONE OPENINGS

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

F.A.P. RTE. 870	SECTION 534 RS-3	COUNTY WILL	TOTAL SHEETS 41	SHEET NO. 38
TC-18			CONTRACT NO. 60E08	
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 = c:\projects\dl16908\dl16908a.dgn	USER NAME = abreuah	DESIGNED -	REVISED - R. MIRS 09-15-97
		DRAWN -	REVISED - R. MIRS 12-11-97
		CHECKED -	REVISED - T. RAMMACHER 02-02-99
		DATE -	REVISED - C. JUCIUS 01-31-07

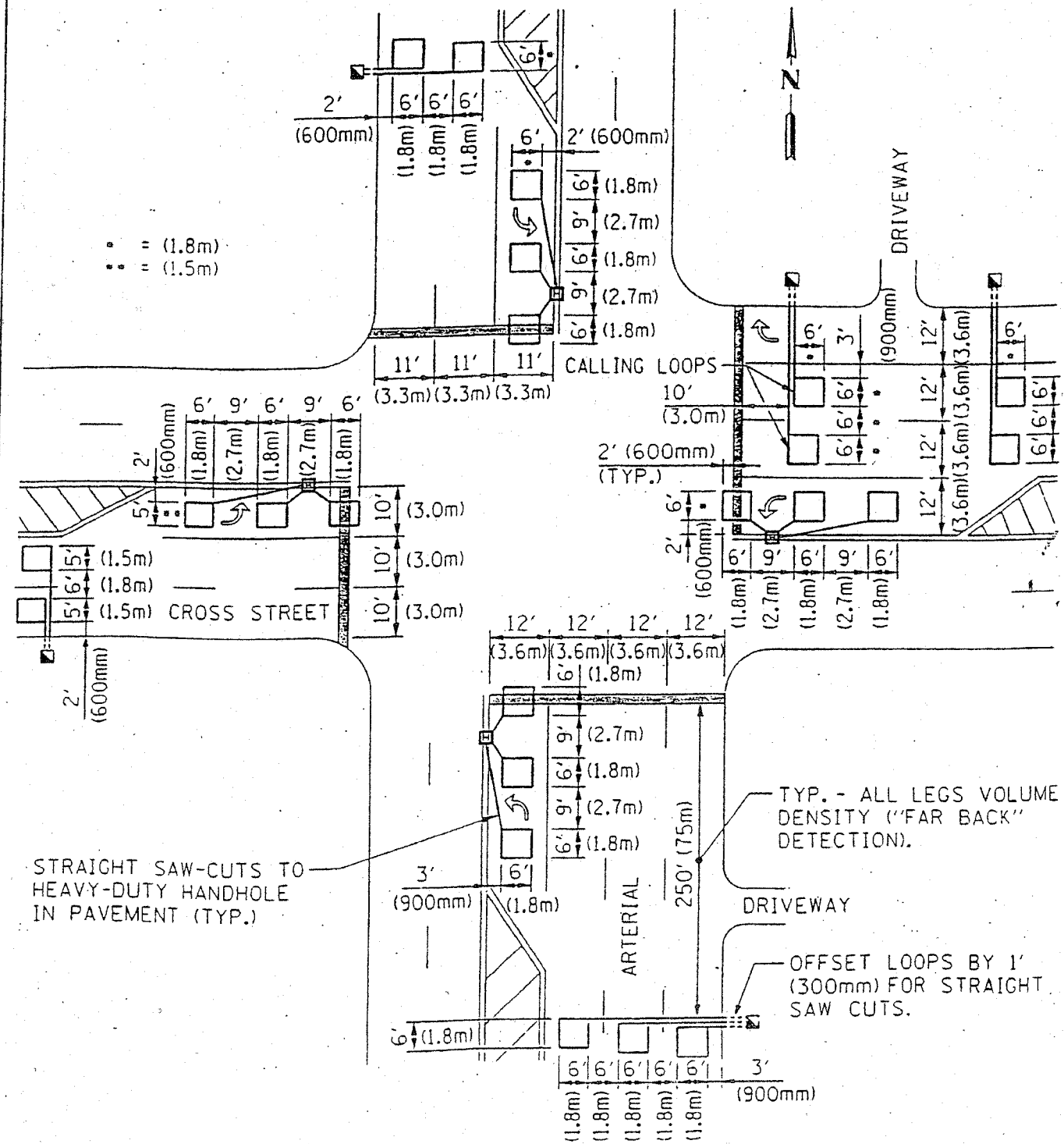
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**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.
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TC-22			CONTRACT NO. 60E08	
FED. ROAD DIST. NO. 1 (ILLINOIS) FED. AID PROJECT				

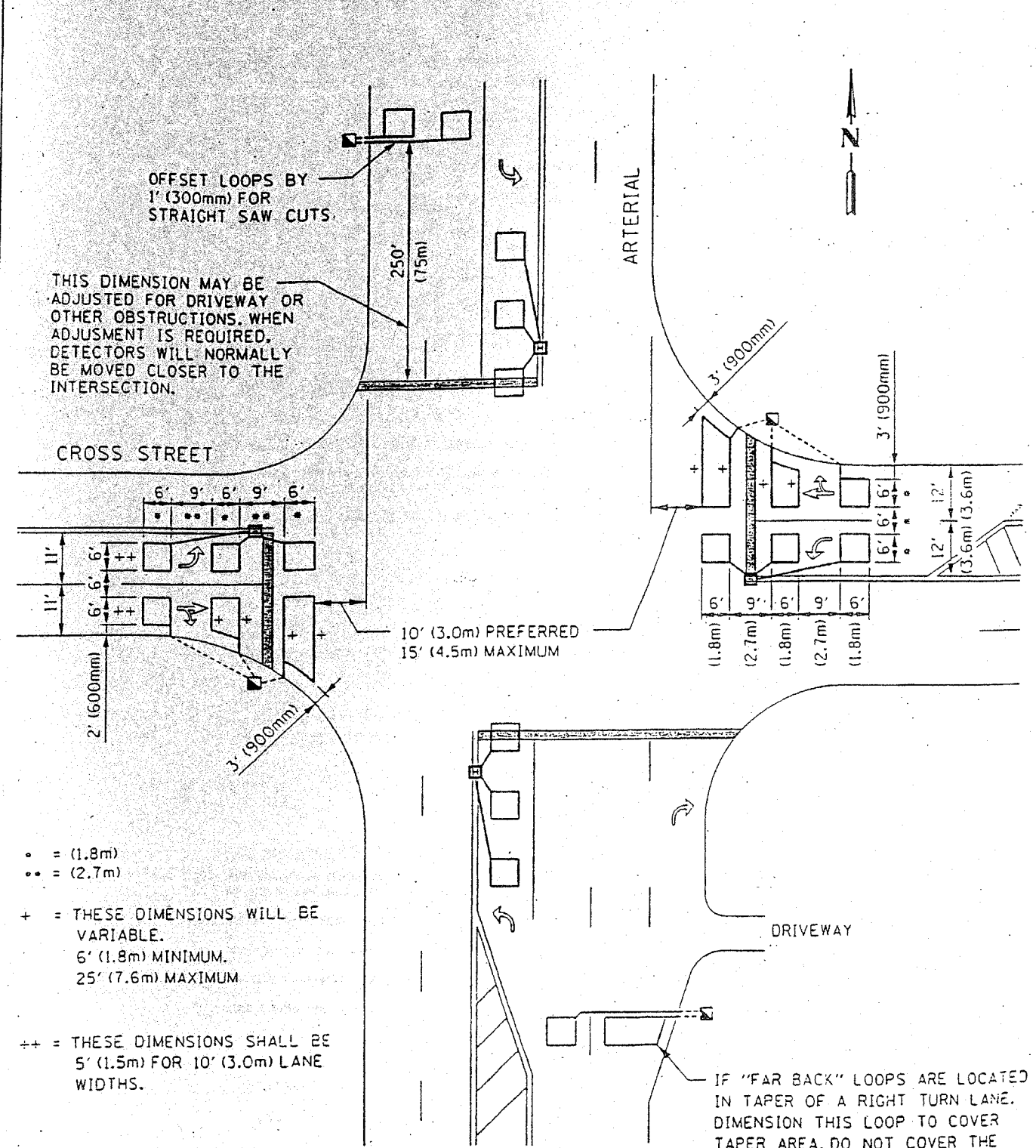
ARTERIAL-VOLUME DENSITY ("FAR BACK" DETECTION)
 CROSS STREET-VOLUME DENSITY ("FAR BACK" DETECTION)



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

N.T.S.

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

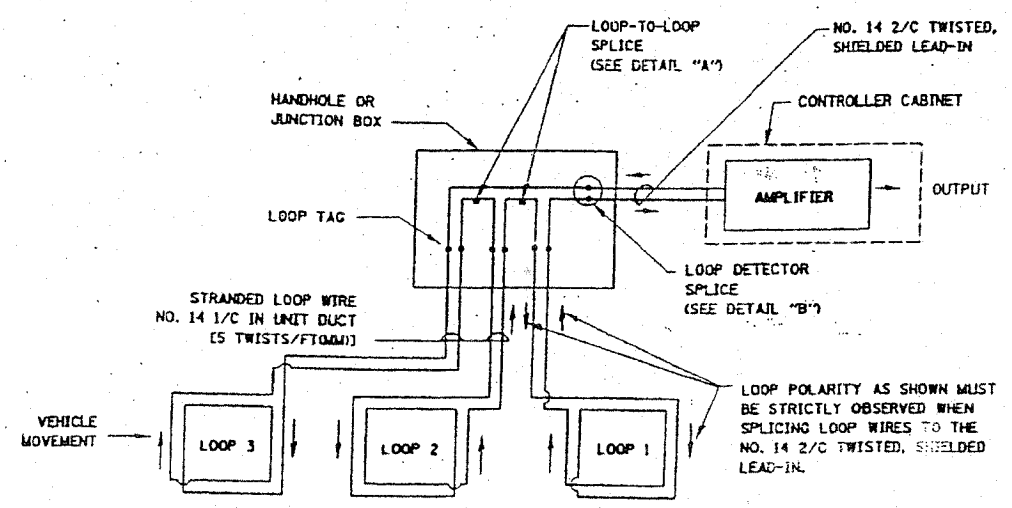


N.T.S.

F.P. RTE.	SECTION	COUNTY	TOTAL SHEETS
STA.	TO STA.		31
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT	

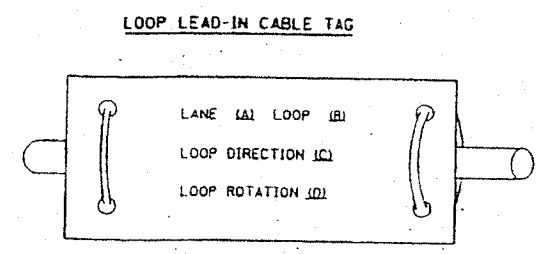
LOOP DETECTOR NOTES

1. EACH PAIR OF LOOP WIRES SHALL BE PLACED IN A SEPARATE UNIT DUCT FROM THE EDGE OF PAVEMENT TO THE HANDHOLE. SPACING BETWEEN THE HOLES DRILLED IN THE PAVEMENT SHALL NOT BE LESS THAN 6" (150 mm). UNIT DUCT SHALL BE INCLUDED IN THE COST OF THE LOOP WIRE.
2. THE NUMBER OF LOOP TURNS SHALL BE AS RECOMMENDED BY THE AMPLIFIER MANUFACTURER. ALL ADJACENT SIDES OF THE LOOPS SHALL BE INSTALLED IN SUCH A WAY THAT THE CURRENT FLOW IS IN THE SAME DIRECTION TO REINFORCE ITS MAGNETIC FIELDS FOR SMALL VEHICLE DETECTION.
3. EACH LOOP LEAD-IN SHALL BE IDENTIFIED AND PERMANENTLY TAGGED IN THE HANDHOLE. EACH LEAD-IN CABLE TAG SHALL INDICATE THE LOCATION OF THE LOOP, LOOP ROTATION (CLOCKWISE/COUNTERCLOCKWISE), LOOP LEAD-IN DIRECTION (IN OR OUT), LOOP CABLE NUMBER AND LOCATION IN CABINET, AND NUMBER OF TURNS IN THE DETECTOR LOOPS IN WATER PROOF INK AS INDICATED ON THE DISTRICT 1 STANDARD TRAFFIC SIGNAL DESIGN DETAIL. THE CONTRACTOR SHALL MARK LOOP LOCATIONS ON RECORD DRAWINGS AND PRESENT TO THE ENGINEER AFTER FINAL INSPECTION. LOOPS SHALL BE MARKED BY LANE AND LOOP NUMBER. SEE DETAIL BELOW.
4. ALL LOOP CABLE SHALL BE FASTENED WITH PLASTIC TIE WRAP TO THE HANDHOLE HOOKS.
5. IN ASPHALT PAVEMENT, LOOPS SHOULD BE PLACED IN THE BINDER AND DIVESHOLES MARKED AT THE CURB WITH A SAW-CUT. THE SAW-CUT SHALL BE CUT IN ACCORDANCE WITH LOCAL AND E.P.A. DUST CONTROL REQUIREMENTS. DETECTOR LOOP(S) SHALL NOT BE INSTALLED IN WET CONDITIONS AND THE SAW-CUTS MUST BE FREE OF DEBRIS AND RESIDUE SUCH AS DUST AND WATER WHICH IS TO BE ACHIEVED BY THE USE OF COMPRESSED AIR, WIRE BRUSHING AND HEAT DRYING ACCORDING TO SEALANT MANUFACTURER REQUIREMENTS. THE DETECTOR WIRE SHALL BE HELD IN PLACE BY THE USE OF FORM WEDGES. WEDGES SHALL BE SPACED NO MORE THAN 18" (450 mm) APART.
6. LOOP SPLICES SHALL BE SOLDERED USING A SOLDERING IRON. BLOW TORCHES OR OTHER DEVICES WHICH OXIDIZE COPPER CABLE SHALL NOT BE ALLOWED FOR SOLDERING OPERATIONS. SEE DETAIL BELOW RIGHT.
7. PREFORMED DETECTOR LOOPS SHALL BE USED, AS SHOWN ON THE PLANS, WHERE NEW CONCRETE PAVEMENT IS PROPOSED. THE INSTALLATION OF PREFORMED LOOPS SHALL BE IN ACCORDANCE WITH THE DISTRICT 1 SPECIFICATIONS OR AS DIRECTED BY THE ENGINEER.

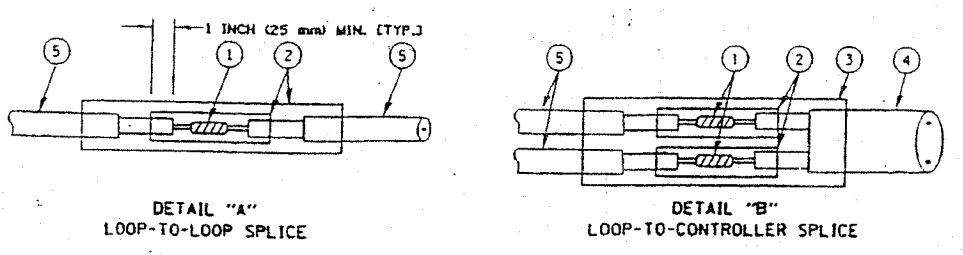


DETECTOR LOOP WIRING SCHEMATIC

- * LOOPS SHALL BE SPLICED IN SERIES.
- * SAW-CUTS SHALL BE A MINIMUM WIDTH OF 5/16" (8 mm).
- * SAW-CUT DEPTHS SHALL BE 3" (75 mm). IF IN CONCRETE, THE SAW-CUT DEPTH SHALL BE TO THE TOP OF THE REINFORCEMENT.
- * LOOP CORNERS SHALL BE DRILLED WITH A 2" (50 mm) DIAMETER CORE.



- A. LANE 1 IS THE LANE CLOSEST TO THE CENTERLINE OF THE ROADWAY
- B. LOOP #1 IS THE LOOP IN THE LANE CLOSEST TO THE INTERSECTION.
- C. LABEL LOOP CABLE "IN" OR LOOP CABLE "OUT".
- D. LABEL LOOP CABLE CLOCKWISE OR LOOP CABLE COUNTERCLOCKWISE.



LOOP DETECTOR SPLICE

- 1 WESTERN UNION SPLICE SOLDERED WITH ROSIN CORE FLUX. ALL EXPOSED SURFACES OF THE SOLDER SHALL BE SMOOTH.
- 2 WCSMW 30/100 HEAT SHRINK TUBE, MINIMUM LENGTH 3" (75 mm), UNDERWATER GRADE.
- 3 WCS 200/750 HEAT SHRINK TUBE, MINIMUM LENGTH 6" (150 mm), UNDERWATER GRADE.
- 4 NO. 14 2/C TWISTED, SHIELDED CABLE.
- 5 LOOP CONDUCTOR WITH FLEXIBLE PLASTIC TUBE.

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
**DISTRICT ONE
 STANDARD TRAFFIC SIGNAL
 DESIGN DETAILS**

SCALE: VERT. NONE
 HORIZ. NONE
 DATE 1-01-02

DRAWN BY: RWP
 DESIGNED BY: DAD
 CHECKED BY: MAZ
 SHEET OF