

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

PROPOSED HIGHWAY PLANS

F.A.P. ROUTE 029: US 12/20 (95TH ST.)
I-294 TO WESTERN AVE.

SECTION: 2008-019RS

RESURFACING (MAINTENANCE)

PROJECT: ACNHF-0029(112)

COOK COUNTY

C-91-134-08

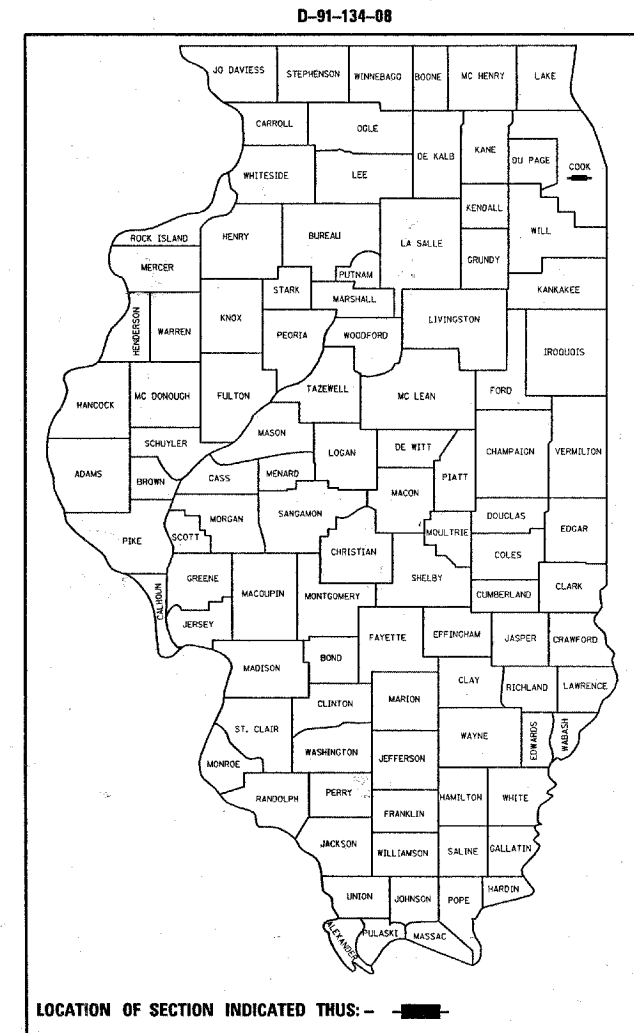
NOTE: WHEREVER IN THESE PLANS REFERENCE IS MADE TO "SECTION 3239 (B-X & C) Z-RS-1" IT SHALL MEAN "SECTION 2008-019RS"

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
029	2008-019RS	COOK	54	1
FED. ROAD DIST. NO. 1	ILLINOIS	CONTRACT NO. 60D96		

541-55

FOR INDEX OF SHEETS, SEE SHEET NO. 2

PROJECT LOCATED IN THE CITY OF BRIDGEVIEW AND THE VILLAGES OF OAK LAWN & EVERGREEN PARK

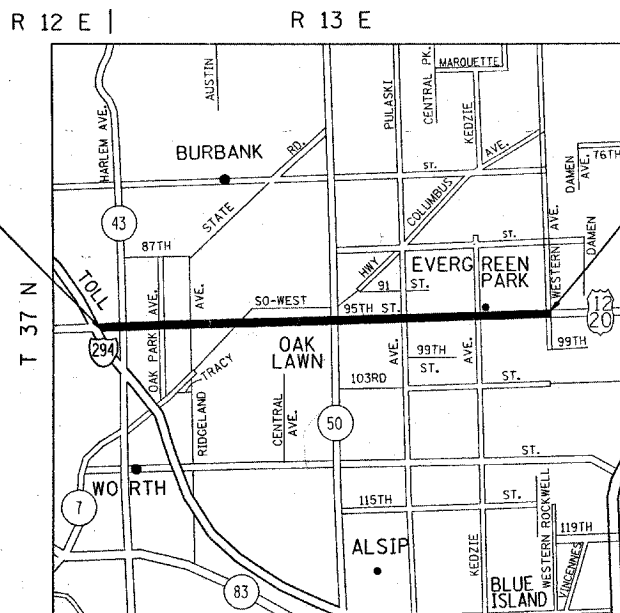


STATION EQUATION:
BACK STA. 186+36 =
STA. 0+00 AHEAD

PROJECT BEGINS:
STATION: 151+10

RAILROAD OMISSIONS:
STA. 118+03 TO STA. 118+51
STA. 247+94 TO STA. 248+21
STA. 283+81 TO STA. 284+03

RESURFACING OMISSIONS:
STA. 190+65 TO STA. 190+74
STA. 214+14 TO STA. 214+23
STA. 214+72 TO STA. 214+81
STA. 229+80 TO STA. 229+89
STA. 230+40 TO STA. 230+49
STA. 242+88 TO STA. 242+97
STA. 243+97 TO STA. 244+06
STA. 253+27 TO STA. 253+36
STA. 253+84 TO STA. 253+93
STA. 270+08 TO STA. 270+17
STA. 270+80 TO STA. 270+89
STA. 290+27 TO STA. 290+36
STA. 290+94 TO STA. 291+03
STA. 296+91 TO STA. 297+00

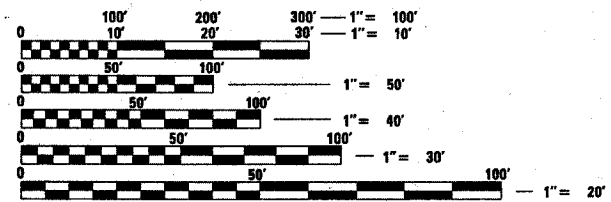


PROJECT ENDS:
STATION: 297+74



TRAFFIC DATA
2005 ADT = 58,500
SPEED LIMIT = 30-45 MPH

GROSS LENGTH OF IMPROVEMENT = 33,301 FEET = 6.31 MILES
NET LENGTH OF IMPROVEMENT = 33,078 FEET = 6.26 MILES



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: JENPAI CHANG (847) 705-4432
PROJECT MANAGER: KEN ENG

CONTRACT NO. 60D96

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED MARCH 31, 2008

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

May 9, 2008
Eric E. Starn
ENGINEER OF DESIGN AND ENVIRONMENT

May 9, 2008
Christine M. Reed
DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS

INDEX OF SHEETS

<u>SHEET NO.</u>	<u>DESCRIPTION</u>
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STATE STANDARDS

<u>STANDARD NO.</u>	<u>DESCRIPTION</u>
000001-05	TYPICAL SYMBOLS, ABBREVIATIONS AND PATTERNS
442201-03	CLASS C AND D PATCHES
606001-03	CONCRETE CURB TYPE B AND COMB. CONCRETE CURB AND GUTTER
701101-01	OFF-ROAD OPERATIONS, MULTILANE LESS THAN 4.5 M (15') AWAY
701426-02	LANE CLOSURE, MULTILANE, INTERMITTENT OR MOVING OPERATIONS
701606-05	URBAN LANE CLOSURE, MULTILANE 2W WITH MOUNTABLE MEDIAN
701701-05	URBAN LANE CLOSURE, MULTILANE INTERSECTION
701801-03	LANE CLOSURE, MULTILANE, 1W OR 2 W CROSSWALK OR SIDEWALK CLOSURE
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 REQUIRED)

THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES VILLAGES OF OAK LAWN AND EVERGREEN PARK.

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

BUTT JOINTS WILL BE INSTALLED AT THE ENDS OF RESURFACING (WHERE RESURFACING MEETS EXISTING PAVEMENT) IN ACCORDANCE WITH THE "BUTT JOINT AND HMA TAPER DETAILS" SHEET INCLUDED IN THE PLANS UNLESS OTHERWISE SPECIFIED.

THE RESIDENT ENGINEER SHALL CONTACT MS. PATRICE HARRIS, AREA TRAFFIC FIELD ENGINEER, AT (708) 597-9800 A MINIMUM OF 2 WEEKS PRIOR TO PLACEMENT OF FINAL PAVEMENT MARKINGS.

WHEN MILLED PAVEMENT IS OPEN TO TRAFFIC, THE MAXIMUM GRADE DIFFERENTIAL BETWEEN PASSES OF THE MILLING MACHINE SHALL NOT EXCEED 1/2 INCHES WHERE THE SPEED LIMIT IS 45 MPH OR LESS, AND 1 INCH WHERE THE SPEED LIMIT IS OVER 45 MPH. WITH WRITTEN APPROVAL FROM THE RESIDENT ENGINEER, A MAXIMUM GRADE DIFFERENTIAL OF 3 INCHES MAY BE ALLOWED IF THE EDGE OF THE MILLING IS SLOPED A MINIMUM OF 1:3 (V:H).

UNLESS OTHER CONDITIONS WARRANT EXTENDED LANE CLOSURES AS DETERMINED AND APPROVED IN WRITING BY THE ENGINEER OR AS PROVIDED FOR IN THE CONTRACT SPECIFICATIONS, OVERNIGHT CLOSURES SHALL NOT BE ALLOWED FOR REHABILITATION PROJECTS INVOLVING DAYTIME MILLING AND RESURFACING OPERATIONS AND CLASS D PATCHING.

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

THE RESIDENT ENGINEER SHALL CONTACT THE TRAFFIC CONTROL SUPERVISOR AT (847) 705-4470 A MINIMUM OF 72 HOURS PRIOR TO THE INSTALLATION OF ANY TEMPORARY TRAFFIC CONTROL DEVICES.

ANY STAMPED CONCRETE CROSSWALKS DAMAGED BY THE CONTRACTOR'S OPERATIONS SHALL BE REPLACED IN KIND AT THE CONTRACTOR'S EXPENSE.

THE CONTRACTOR SHALL RESURFACE UP TO THE EXISTING RAILROAD PANEL AT ALL RAILROAD CROSSINGS.

FILE NAME =	USER NAME = sm1thk1	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	US 1220 (OAK PARK AVE. TO WESTERN AVE.) INDEX OF SHEETS, STATE STANDARDS AND GENERAL NOTES		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
ca:\projects\dl13408\sh_rdw\dgn		DRAWN -	REVISED -		029	3239 (B-X&C) Z-RS-1	COOK	54	2		
PLOT SCALE = 50.0000' / IN.		CHECKED -	REVISED -		CONTRACT NO. 60D96						
PLOT DATE = 4/2/2008		DATE -	REVISED -		SCALE:	SHEET NO. 2 OF 49 SHEETS	STA.	TO STA.	FED. ROAD DIST. NO. 1 (ILLINOIS) FED. AID PROJECT		

CONTRACT NO. 60D96

SUMMARY OF QUANTITIES			CONSTRUCTION TYPE CODE					
CODE NO	ITEM	UNIT	URBAN TOTAL QUANTITIES	ROADWAY	PARKING	PARKING		
				1000-2A 80% FED. 20% STATE	LANES 50% STATE 50% VILLAGE OF OAKLAWN Y025	LANES 50% STATE 50% VILLAGE EVERGRN PRK Y025		
40300200	BITUMINOUS MATERIALS (PRIME COAT)	TON	187	180	2	5		
40600300	AGGREGATE (PRIME COAT)	TON	617	595	5	17		
40600400	MIXTURE FOR CRACKS, JOINTS, AND FLANGEWAYS	TON	142	136	2	4		
40600895	CONSTRUCTING TEST STRIP	EACH	2	2				
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SO YD	5995	5995				
40601005	HOT-MIX ASPHALT REPLACEMENT OVER PATCHES	TON	4620	4620				
40603595	POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "F", N90	TON	30120	29115	215	790		
42001300	PROTECTIVE COAT	SO YD	940	940				
42400200	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SO FT	350	350				
44000159	HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/2"	SO YD	307210	297010	2159	8041		
44000600	SIDEWALK REMOVAL	SO FT	350	350				
44001700	COMBINATION CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT	FOOT	4200	4200				
44002212	HOT-MIX ASPHALT REMOVAL OVER PATCHES, 3"	SO YD	1650	1650				
44002220	HOT-MIX ASPHALT REMOVAL OVER PATCHES, 5"	SO YD	15460	15460				
44201749	CLASS D PATCHES, TYPE I, 9 INCH	SO YD	24	24				
44201753	CLASS D PATCHES, TYPE II, 9 INCH	SO YD	7806	7806				
44201757	CLASS D PATCHES, TYPE III, 9 INCH	SO YD	3184	3184				
44201759	CLASS D PATCHES, TYPE IV, 9 INCH	SO YD	975	975				
NP 55039700	STORM SEWERS TO BE CLEANED	FOOT	1200	1200				
60250200	CATCH BASINS TO BE ADJUSTED	EACH	32	32				
60252800	CATCH BASINS TO BE RECONSTRUCTED	EACH	2	2				
60261530	INLETS TO BE ADJUSTED WITH NEW TYPE 23 FRAME AND GRATE	EACH	33	33				
60300310	FRAMES AND LIDS TO BE ADJUSTED (SPECIAL)	EACH	381	381				
60406100	FRAMES AND LIDS, TYPE 1, CLOSED LID	EACH	101	101				
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	9	9				
67100100	MOBILIZATION	L SUM	1	1				

SUMMARY OF QUANTITIES			CONSTRUCTION TYPE CODE					
CODE NO	ITEM	UNIT	URBAN TOTAL QUANTITIES	ROADWAY	PARKING	PARKING		
				1000-2A 80% FED. 20% STATE	LANES 50% STATE 50% VILLAGE OF OAKLAWN Y025	LANES 50% STATE 50% VILLAGE EVERGRN PRK Y025		
70102625	TRAFFIC CONTROL AND PROTECTION, STANDARD 701606	L SUM	1	1				
70102635	TRAFFIC CONTROL AND PROTECTION, STANDARD 701701	L SUM	1	1				
70102640	TRAFFIC CONTROL AND PROTECTION, STANDARD 701801	L SUM	1	1				
70300100	SHORT-TERM PAVEMENT MARKING	FOOT	54120	54120				
70300210	TEMPORARY PAVEMENT MARKING - LETTERS AND SYMBOLS	SO FT	2622	2622				
70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	113715	13715				
70300240	TEMPORARY PAVEMENT MARKING - LINE 6"	FOOT	18700	18700				
70300250	TEMPORARY PAVEMENT MARKING - LINE 8"	FOOT	4185	4185				
70300260	TEMPORARY PAVEMENT MARKING - LINE 12"	FOOT	6285	6285				
70300280	TEMPORARY PAVEMENT MARKING - LINE 24"	FOOT	3145	3145				
70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SO FT	82510	82510				
* 78000100	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	SO FT	2622	2622				
* 78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	113715	13715				
* 78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	18700	18700				
* 78000500	THERMOPLASTIC PAVEMENT MARKING - LINE 8"	FOOT	4185	4185				
* 78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	6285	6285				
* 78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	3145	3145				
* 78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	5100	5100				
78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	4270	4270				
* 88600600	DETECTOR LOOP REPLACEMENT	FOOT	8733	8733				
X0322256	TEMPORARY INFORMATION SIGNING	SO FT	51.4	51.4				
X4067107	POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50	TON	12285	11880	85	320		

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
SUMMARY OF QUANTITIES

NP= Non-Participating
*Specialty Items Rev.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
029	3239 (B-X&C) Z-RS-1	COOK	54	4

FED. ROAD DIST. NO. 1 ILLINOIS HIGHWAY PROJECT

CONTRACT NO. 60D96

SUMMARY OF QUANTITIES			URBAN TOTAL QUANTITIES	CONSTRUCTION TYPE CODE				
CODE NO	ITEM	UNIT		ROADWAY 1000-2A 80% FED. 20% STATE	PARKING LANES 50% STATE 50% VILLAGE OF OAKLAWN Y025	PARKING LANES 50% STATE 50% VILLAGE EVERGRN PRK Y025		
NP Z0018500	DRAINAGE STRUCTURES TO BE CLEANED	EACH	62	62				
Z0048665	RAILROAD PROTECTIVE LIABILITY INSURANCE	L SUM	1	1				
© Z0076600	TRAINEES	HOUR	4000	4000				

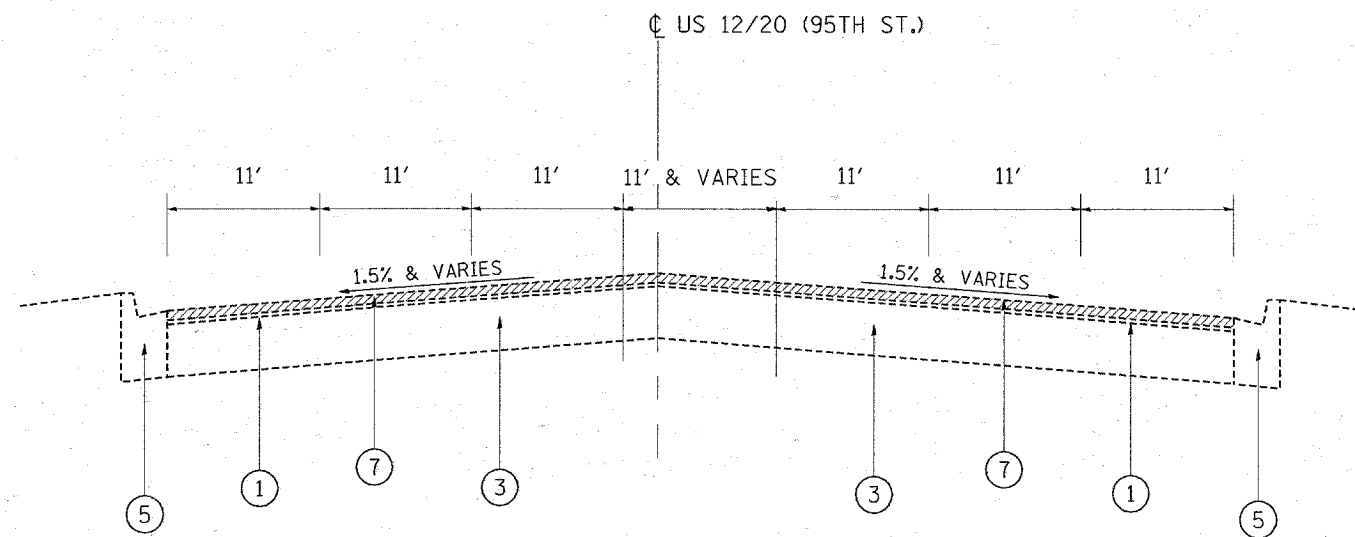
SUMMARY OF QUANTITIES				CONSTRUCTION TYPE CODE				
CODE NO	ITEM	UNIT	TOTAL QUANTITIES	ROADWAY 1000-2A	PARKING LANES 50% STATE 50% VILLAGE OF OAKLAWN Y025	PARKING LANES 50% STATE 50% VILLAGE EVERGRN PRK Y025		

NP= Non-participating
© - Y080.

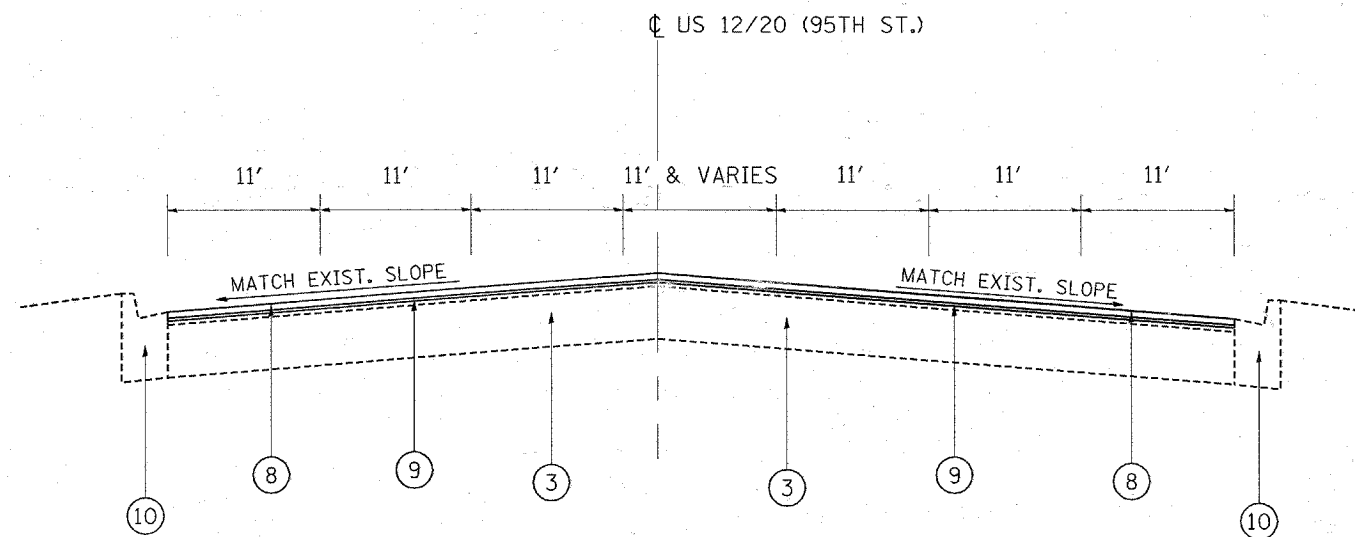
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
SUMMARY OF QUANTITIES

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**EXISTING TYPICAL SECTION
US 12/20 (95TH ST.)
STA. 180+76 TO 188+80**



**PROPOSED TYPICAL SECTION
US 12/20 (95TH ST.)
STA. 180+76 TO 188+80**

LEGEND

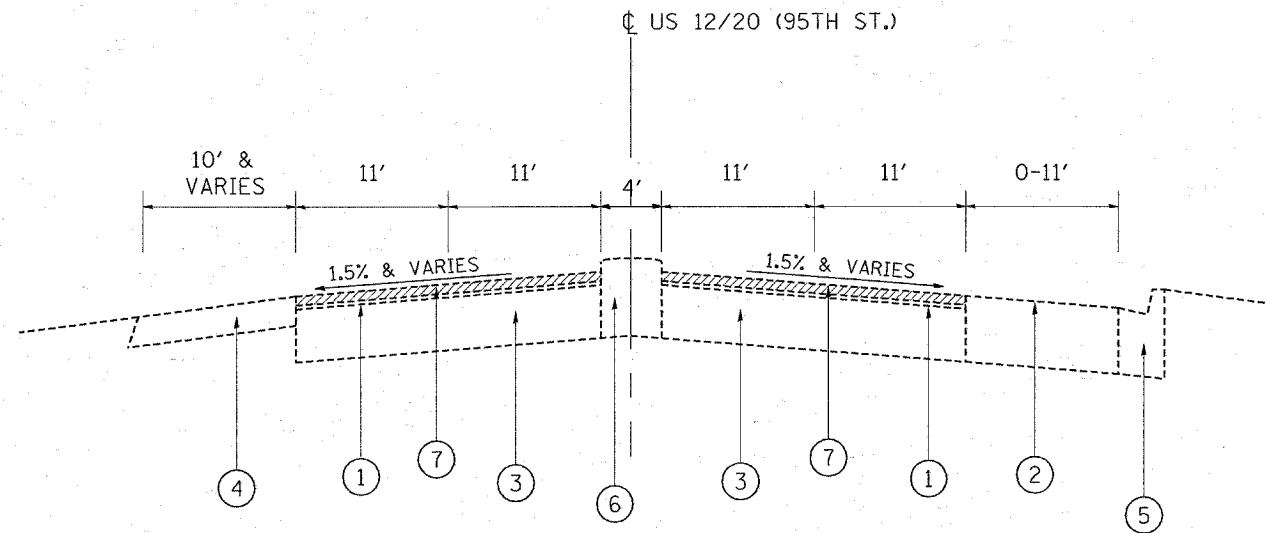
- ① EXIST. HMA PAVEMENT, 3''(±)
- ② EXIST. P.C.C. PAVEMENT
- ③ EXIST. P.C.C. BASE COURSE, 9''(±)
- ④ EXIST. HMA SHOULDER
- ⑤ EXIST. B-6.24 CURB & GUTTER
- ⑥ EXIST. P.C.C. MEDIAN (TO REMAIN)
- ⑦ PROP. HMA SURFACE REMOVAL, 2 1/2''
- ⑧ PROP. POLYMERIZED HMA SURFACE COURSE, MIX "F", N90, 1 3/4''
- ⑨ PROP. POLYMERIZED LEVELING BINDER (MM), N50, IL-4.75, 3/4''
- ⑩ PROP. COMBINATION CONC. CURB & GUTTER REMOVAL & REPLACEMENT (TO BE DETERMINED IN THE FIELD BY THE ENGINEER)

HOT-MIX ASPHALT MIXTURE REQUIREMENTS

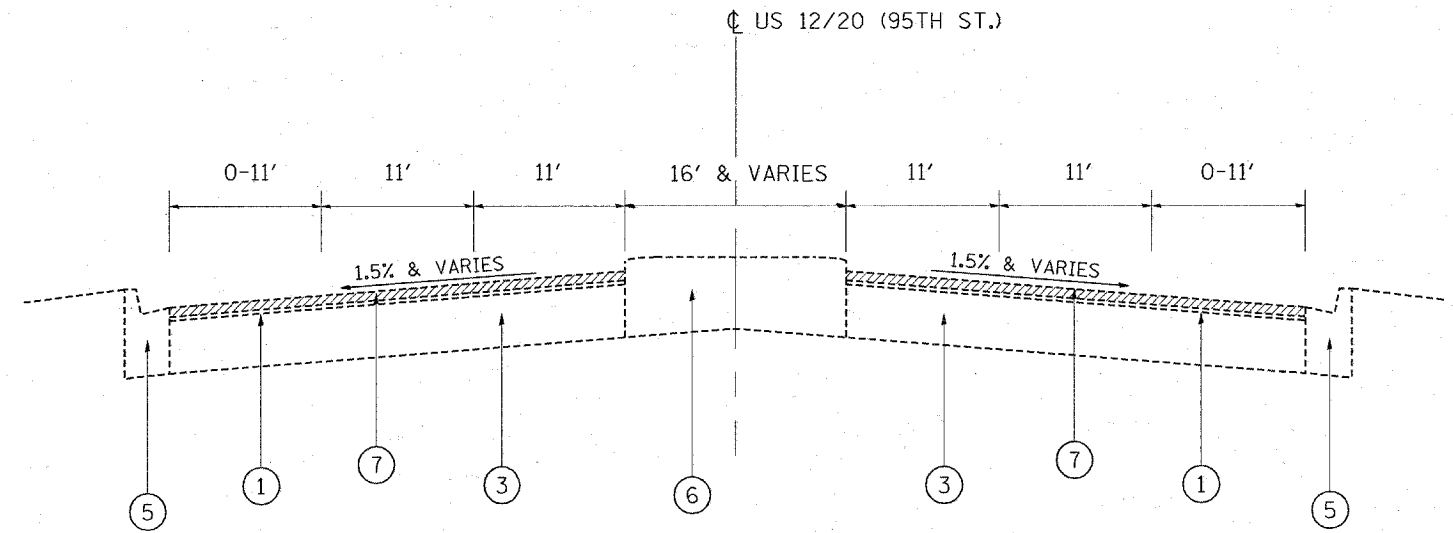
	MIXTURE USE	AC TYPE	AIR VOIDS (%)
ROADWAY	POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "F", N90 (IL 9.5 MM), 1 3/4''	SBS/SBR PG 70-22	4% @ 90 GYR
	POLYMERIZED LEVELING BINDER, (MM) IL-4.75, N50, 3/4''	SBS/SBR PG 76-28/-22	4% @ 50 GYR
PATCHES	CLASS D PATCHES, (BINDER IL-19.0 MM), 9''	PG 64-22 *	4% @ 70 GYR
	HOT-MIX ASPHALT REPLACEMENT OVER PATCHES, (BINDER IL-19.0 MM)	PG 64-22 *	4% @ 70 GYR

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

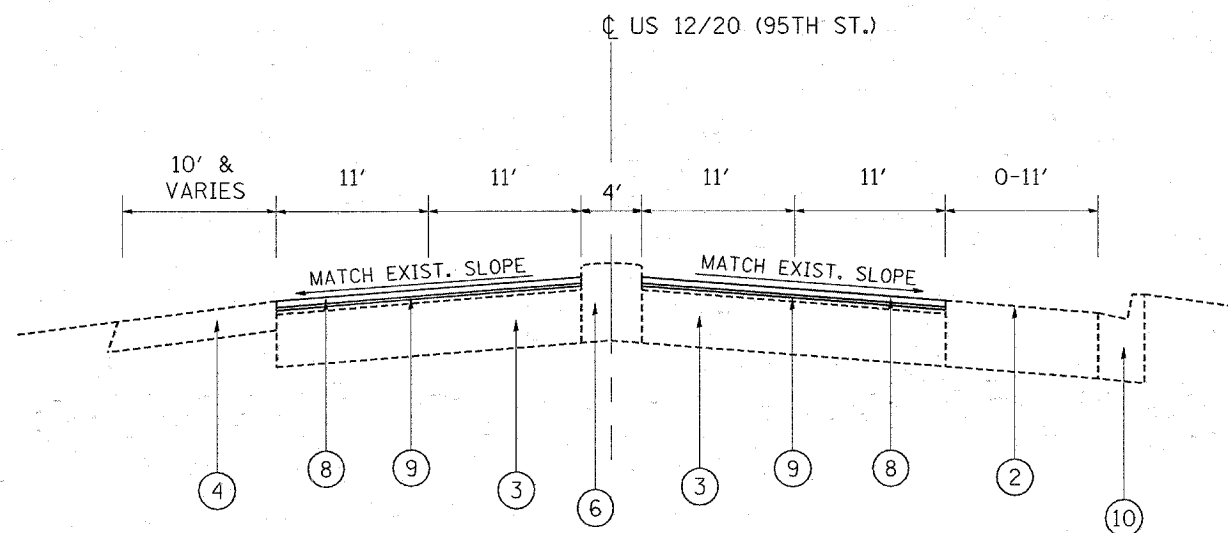
* WHEN RAP EXCEEDS 20%, THE NEW ASPHALT BINDER IN THE MIX SHALL BE PG 58-22



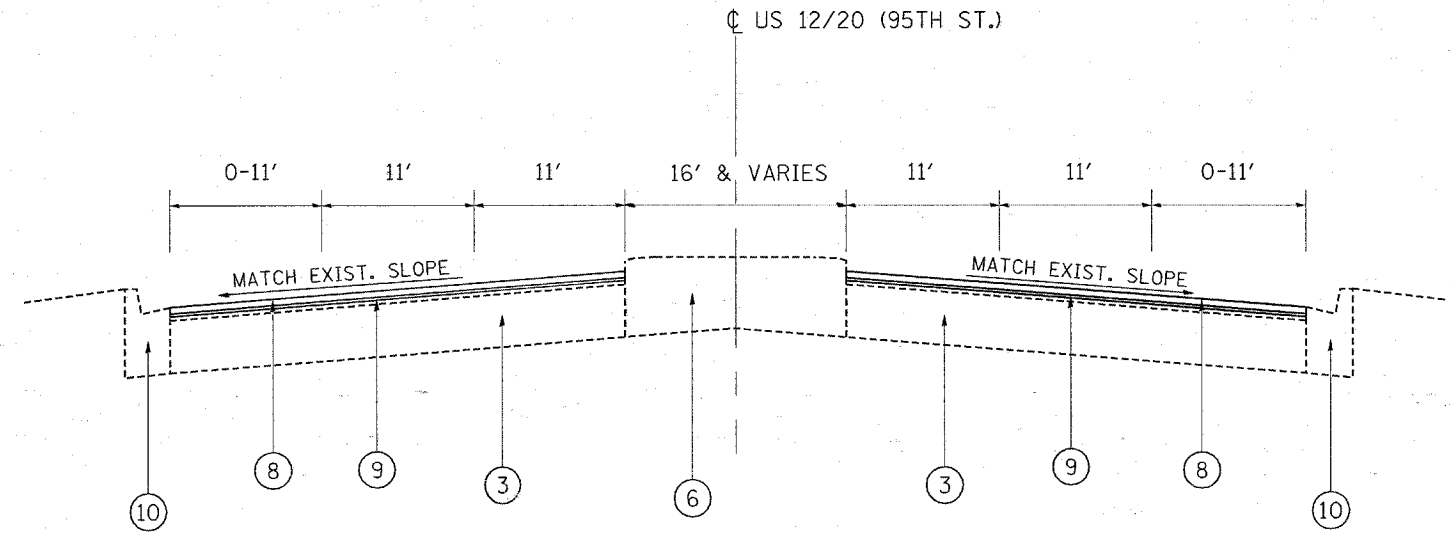
**EXISTING TYPICAL SECTION
US 12/20 (95TH ST.)
STA. 137+90 TO 146+52**



**EXISTING TYPICAL SECTION
US 12/20 (95TH ST.)
STA. 146+52 TO 180+76**



**PROPOSED TYPICAL SECTION
US 12/20 (95TH ST.)
STA. 137+90 TO 146+52**

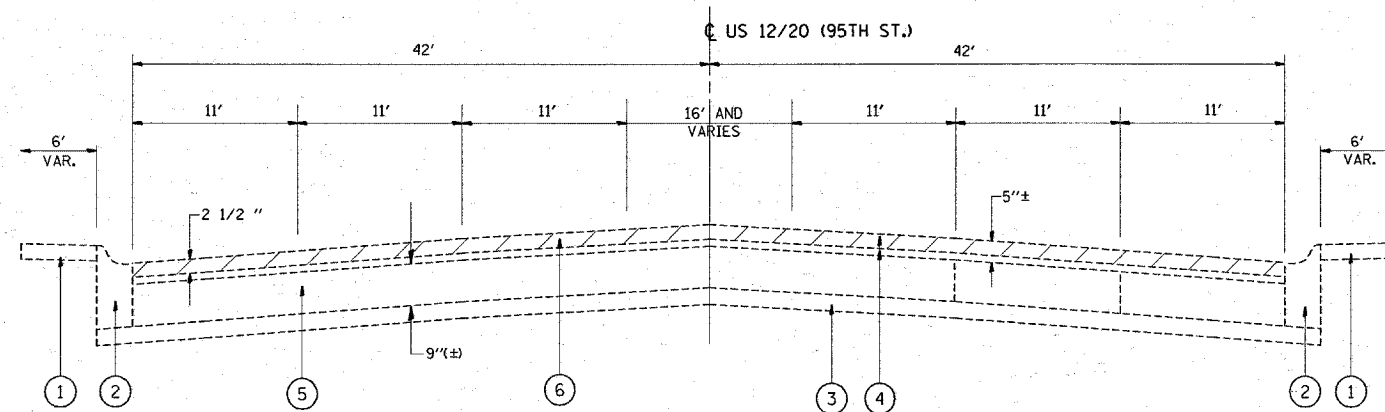


**PROPOSED TYPICAL SECTION
US 12/20 (95TH ST.)
STA. 146+52 TO 180+76**

LEGEND

- ① EXIST. HMA PAVEMENT, 3"(\pm)
- ② EXIST. P.C.C. PAVEMENT
- ③ EXIST. P.C.C. BASE COURSE, 9"(\pm)
- ④ EXIST. HMA SHOULDER
- ⑤ EXIST. B-6.24 CURB & GUTTER
- ⑥ EXIST. P.C.C. MEDIAN (TO REMAIN)
- ⑦ PROP. HMA SURFACE REMOVAL, 2 1/2"
- ⑧ PROP. POLYMERIZED HMA SURFACE COURSE, MIX "F", N90, 1 3/4"
- ⑨ PROP. POLYMERIZED LEVELING BINDER (MM), N50, IL-4.75, 3/4"
- ⑩ PROP. COMBINATION CONC. CURB & GUTTER REMOVAL & REPLACEMENT (TO BE DETERMINED IN THE FIELD BY THE ENGINEER)

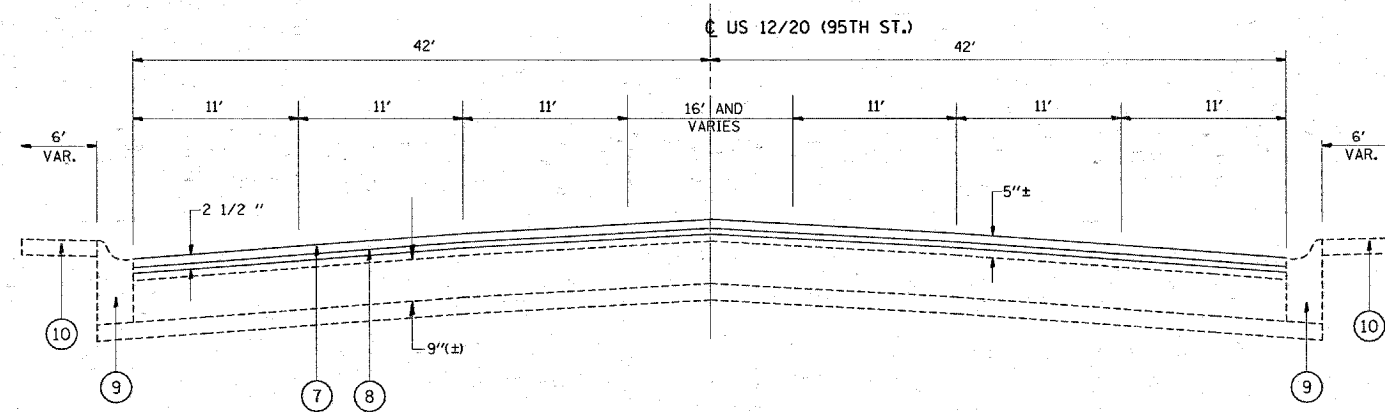
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	PLOT SCALE = 50.0000' / IN.	DRAWN -	REVISED -				029	3239 (B-X+C) E-LS-1	COOK	54	6
PLOT DATE = 4/1/2009	CHECKED -	REVISED -	SCALE: SHEET NO. 4 OF 18 SHEETS STA. TO STA.		FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT		CONTRACT NO. 6096				
	DATE -	REVISED -									



**EXISTING TYPICAL SECTION
US 12/20 (95TH STREET)
STA. 2+44 TO STA. 71+06**

LEGEND

- ① EXIST. SIDEWALK
- ② EXIST. B-6.12 CURB & GUTTER
- ③ EXIST. SUB-BASE
- ④ EXIST. HMA PAVEMENT, 5''(±)
- ⑤ EXIST. P.C.C. BASE COURSE, 9''(±)
- ⑥ PROP. HMA SURFACE REMOVAL, 2 1/2''
- ⑦ PROP. POLYMERIZED HMA SURFACE COURSE, MIX "F", N90, 1 3/4''
- ⑧ PROP. POLYMERIZED LEVELING BINDER (MM), N50, IL-4.75, 3/4''
- ⑨ PROP. COMBINATION CONC. CURB & GUTTER REMOVAL & REPLACEMENT (TO BE DETERMINED IN THE FIELD BY THE ENGINEER)
- ⑩ PROP. SIDEWALK REMOVAL AND REPLACEMENT (TO BE DETERMINED IN THE FIELD BY THE ENGINEER)



**PROPOSED TYPICAL SECTION
US 12/20 (95TH STREET)
STA. 2+44 TO STA. 71+06**

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PLOT DATE = 4/2/2008

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DATE -

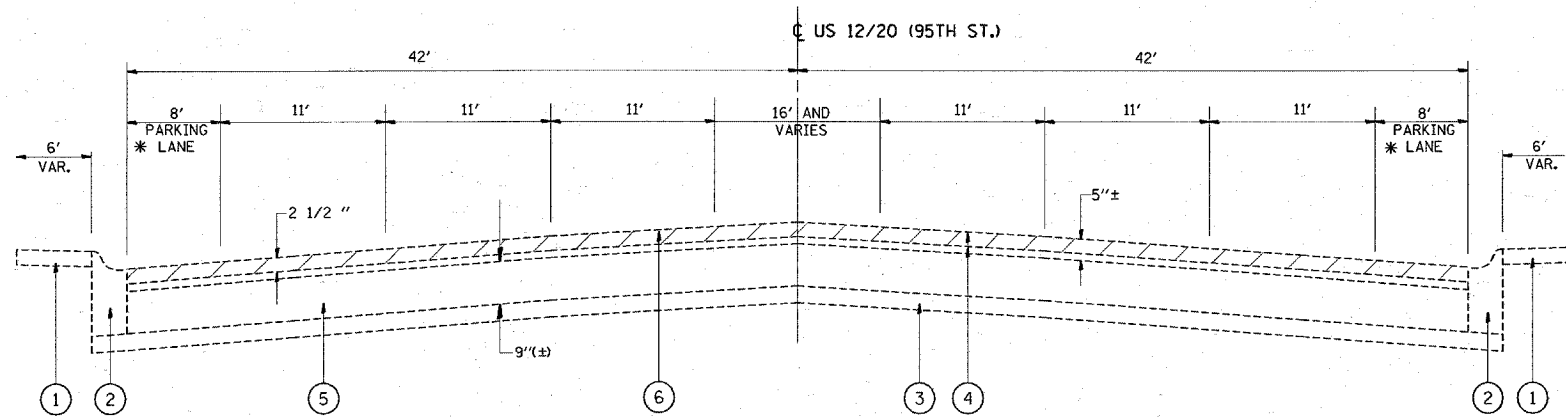
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**US 12/20 (OAK PARK AVE. TO WESTERN AVE.)
EXISTING AND PROPOSED TYPICAL SECTIONS**

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

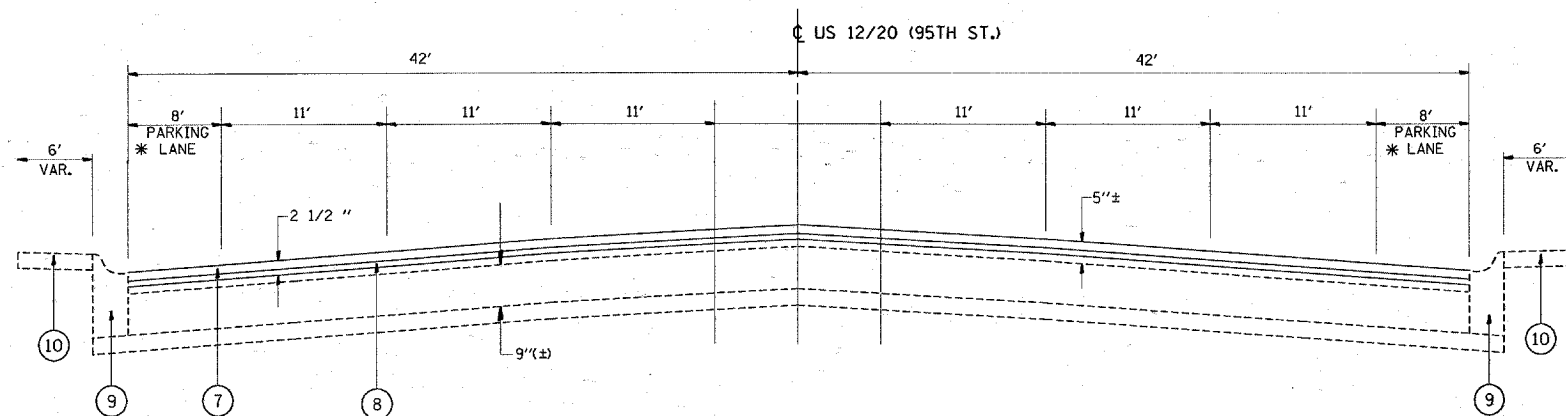
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
029	3239 (B-X&C) Z-RS-1	COOK	54	7
CONTRACT NO. 60D96				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



**EXISTING TYPICAL SECTION
US 12/20 (95TH STREET)
STA. 71+06 TO STA. 297+74**

LEGEND

- ① EXIST. SIDEWALK
- ② EXIST. B-6.12 CURB & GUTTER
- ③ EXIST. SUB-BASE
- ④ EXIST. HMA PAVEMENT, 5''(±)
- ⑤ EXIST. P.C.C. BASE COURSE, 9''(±)
- ⑥ PROP. HMA SURFACE REMOVAL, 2 1/2''
- ⑦ PROP. POLYMERIZED HMA SURFACE COURSE, MIX "F", N90, 1 3/4''
- ⑧ PROP. POLYMERIZED LEVELING BINDER (MM), N50, IL-4.75, 3/4''
- ⑨ PROP. COMBINATION CONC. CURB & GUTTER REMOVAL & REPLACEMENT (TO BE DETERMINED IN THE FIELD BY THE ENGINEER)
- ⑩ PROP. SIDEWALK REMOVAL AND REPLACEMENT (TO BE DETERMINED IN THE FIELD BY THE ENGINEER)

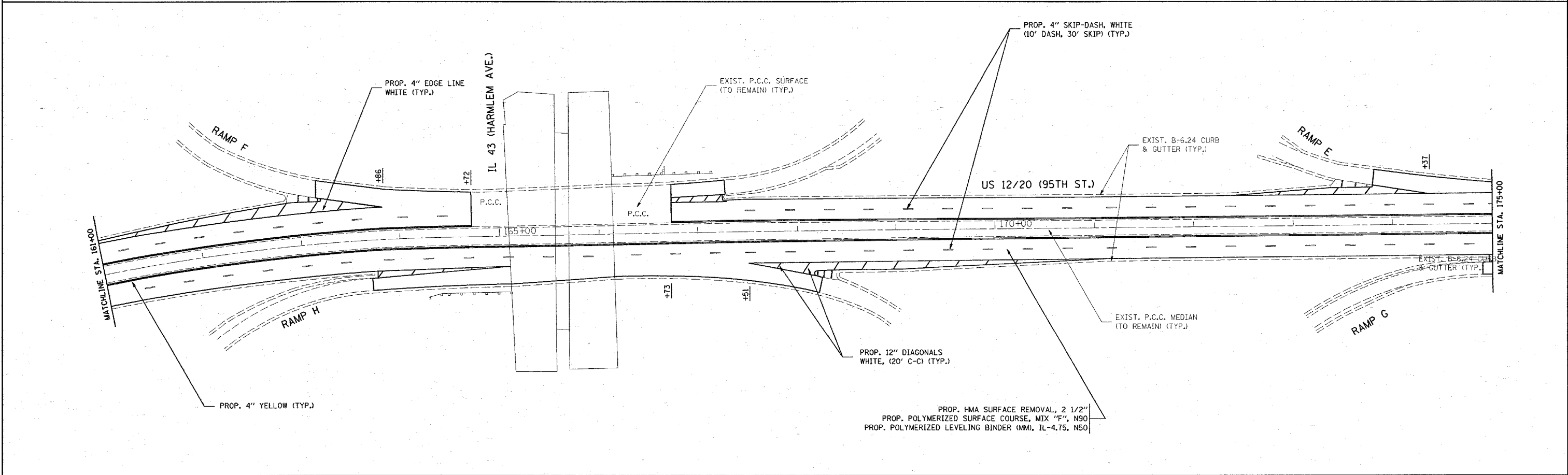
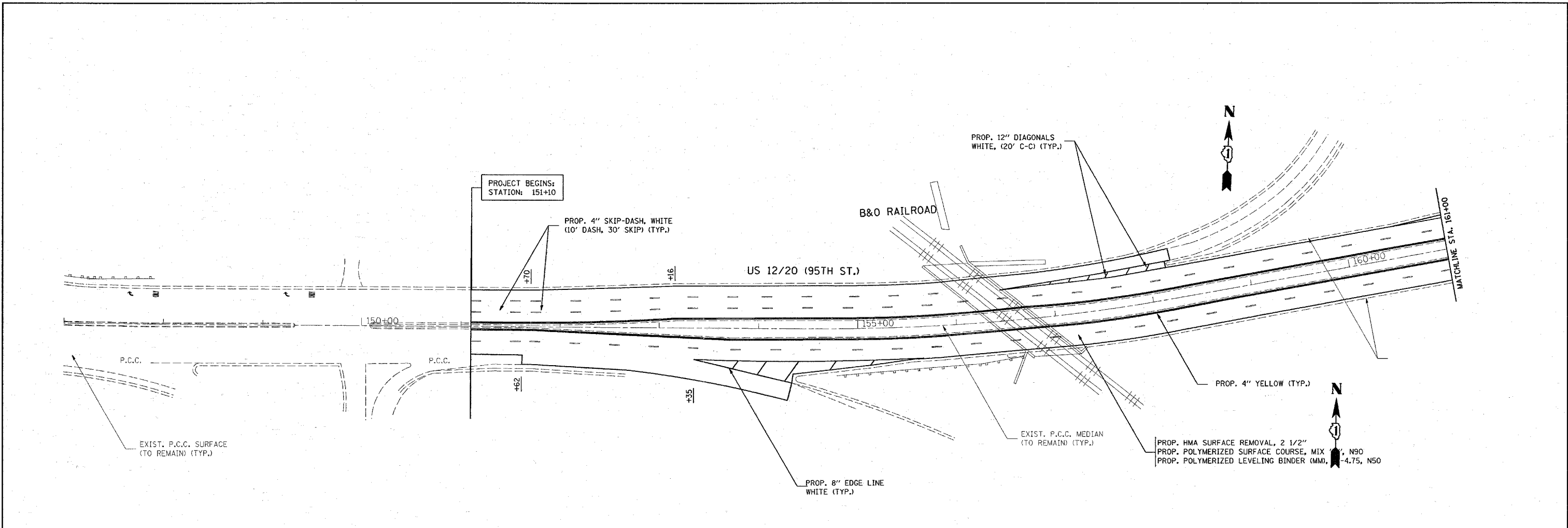


**PROPOSED TYPICAL SECTION
US 12/20 (95TH STREET)
STA. 71+06 TO STA. 297+74**

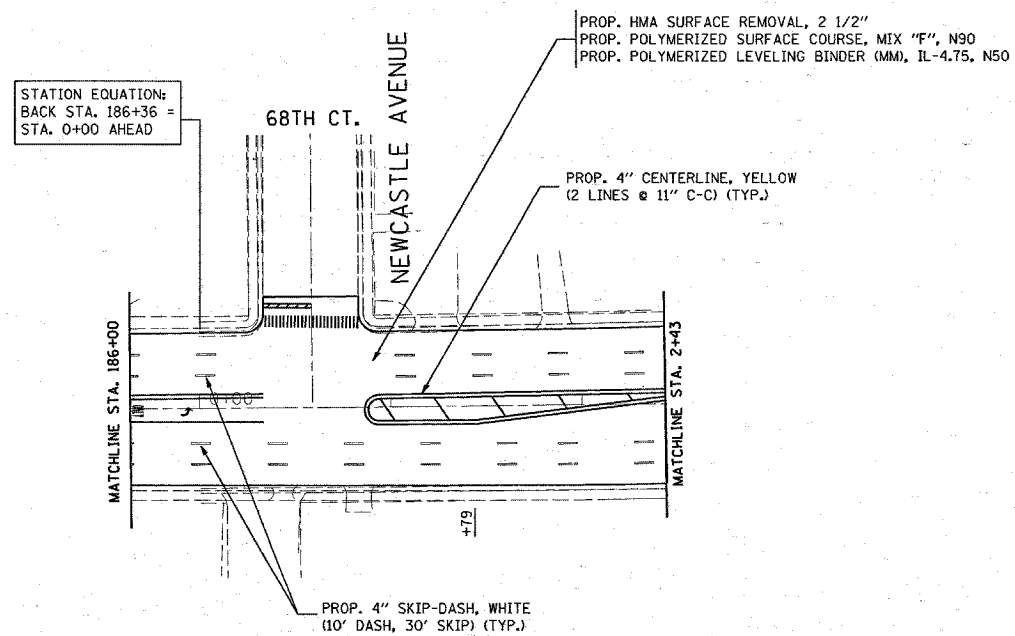
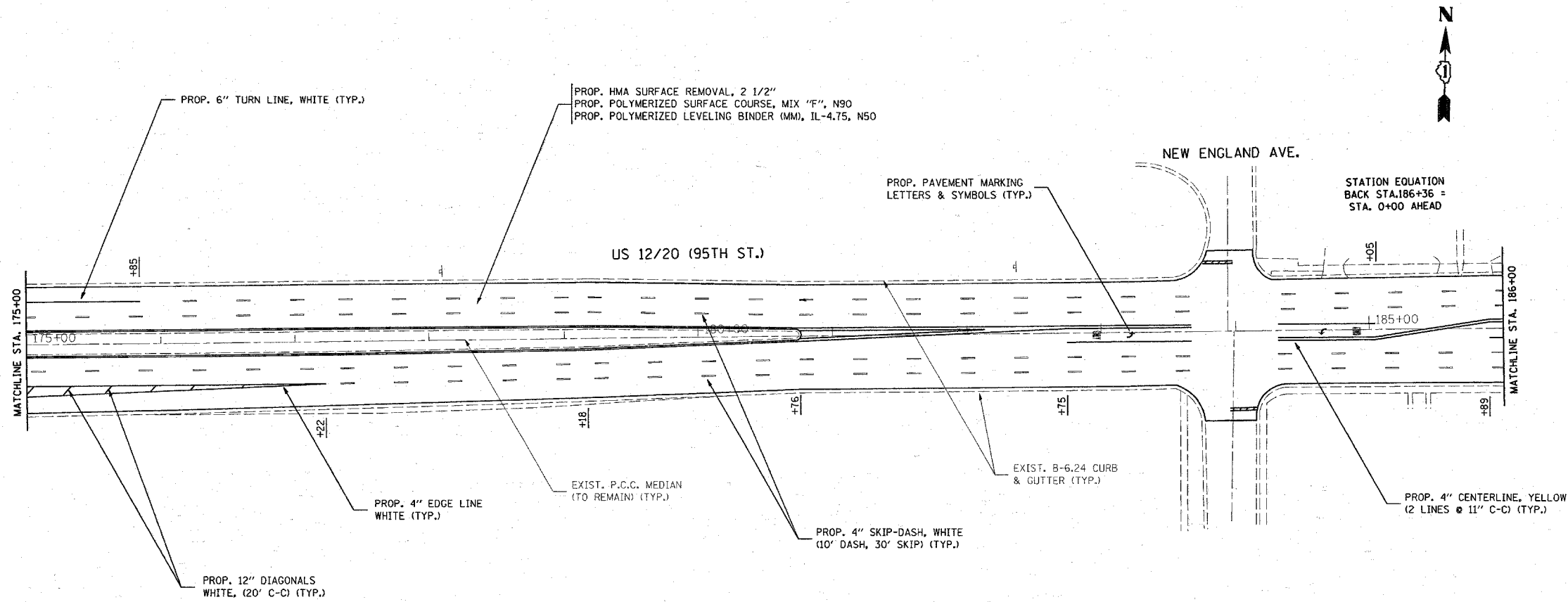
NOTES

* WHERE SHOWN IN ROADWAY PLANS

FILE NAME = c:\projects\dl13408\sh_rdwj.dgn	USER NAME = sm1thkl	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	US 1220 (OAK PARK AVE. TO WESTERN AVE.) EXISTING AND PROPOSED TYPICAL SECTIONS	F.A. RTE. =	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 50.0000 / / IN.	CHECKED -	REVISED -			029	3239 (B-X&C) Z-RS-1	COOK	54	8
PLOT DATE = 4/2/2008	DATE -	REVISED -	SCALE:		SHEET NO. OF SHEETS STA. TO STA.	FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				
					CONTRACT NO. 60D96					



FILE NAME = c:\projects\dl13308\design\es.dgn	USER NAME = am:thkl	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	US 1220 (I-294 TO WESTERN AVE.) ROADWAY AND PAVEMENT MARKING PLAN		F.A.P. RTE. 029	SECTION 3239 (B-X&C) Z-RS-1	COUNTY COOK	TOTAL SHEETS 54	SHEET NO. 9
	PLOT SCALE = 50.0000' / IN.	DRAWN -	REVISED -		SCALE: 1"=50'	SHEET NO. 6 OF 18 SHEETS	STA. TO STA.	CONTRACT NO. 60D96		FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT	
	PLOT DATE = 4/2/2008	CHECKED -	REVISED -		DATE -						



FILE NAME =
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PLOT DATE = 4/2/2008

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DATE -

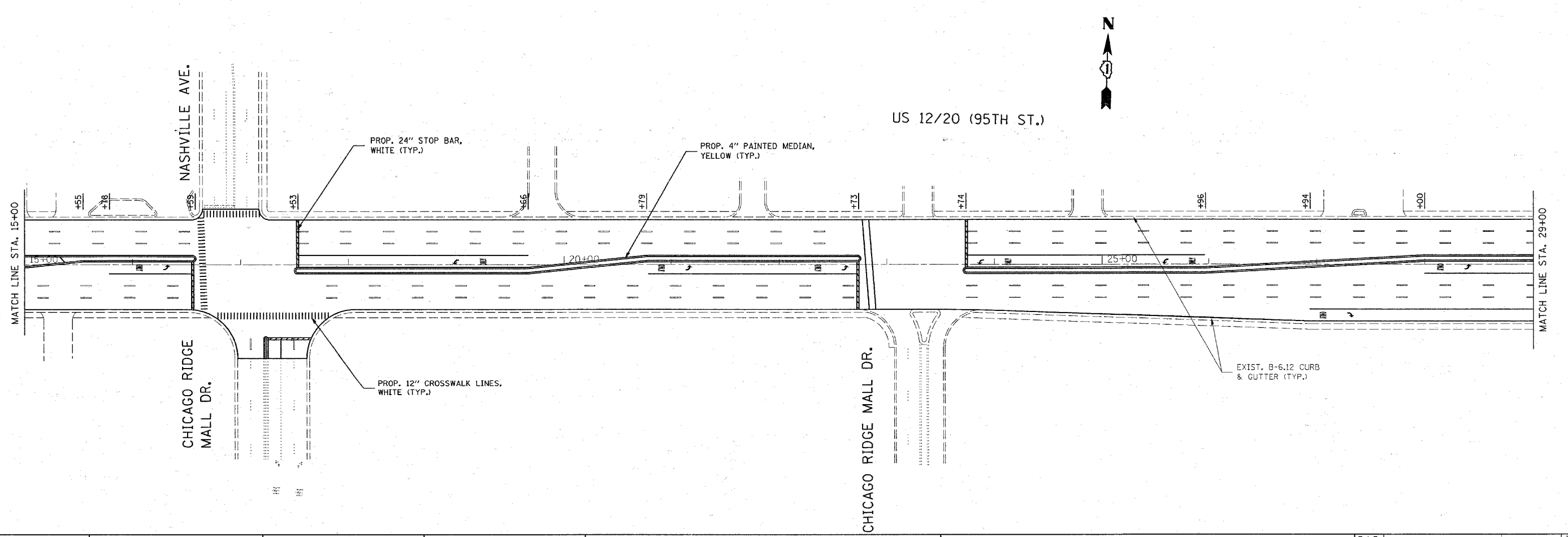
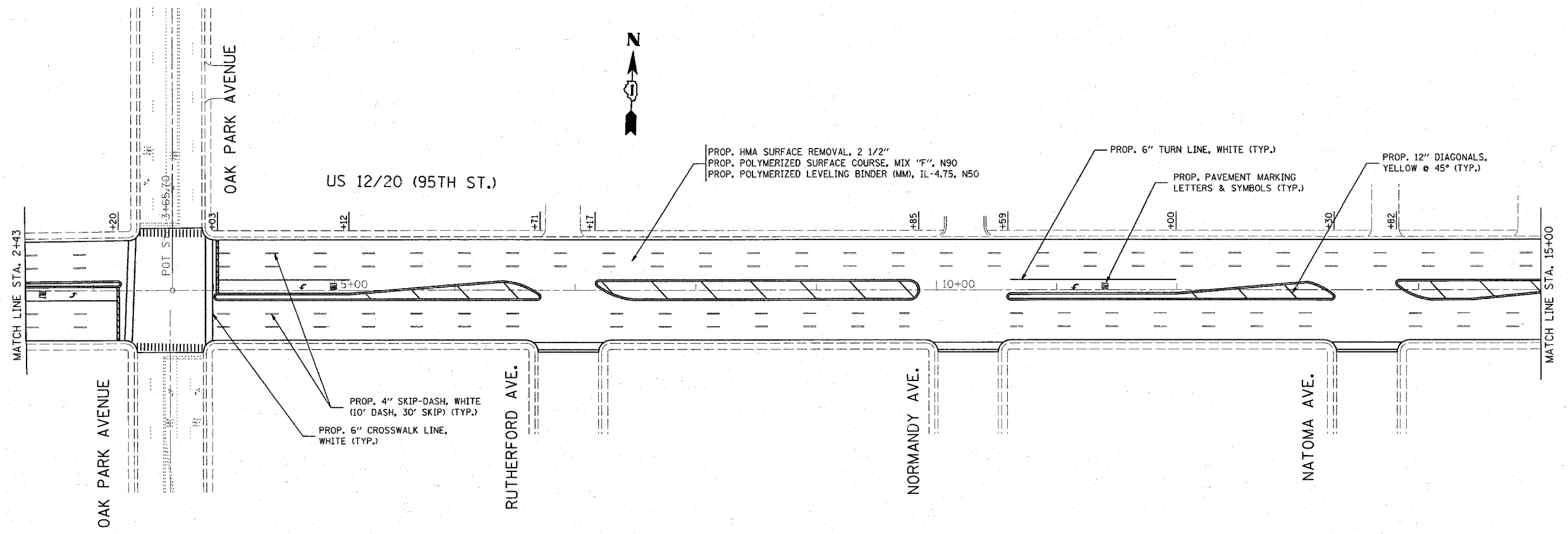
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**US 1220 (I-294 TO WESTERN AVE.)
ROADWAY AND PAVEMENT MARKING PLAN**

SCALE: 1"=50' SHEET NO. 8 OF 18 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
029	3239 (B-X&C) Z-RS-1	COOK	54	10
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			CONTRACT NO. 60D96	



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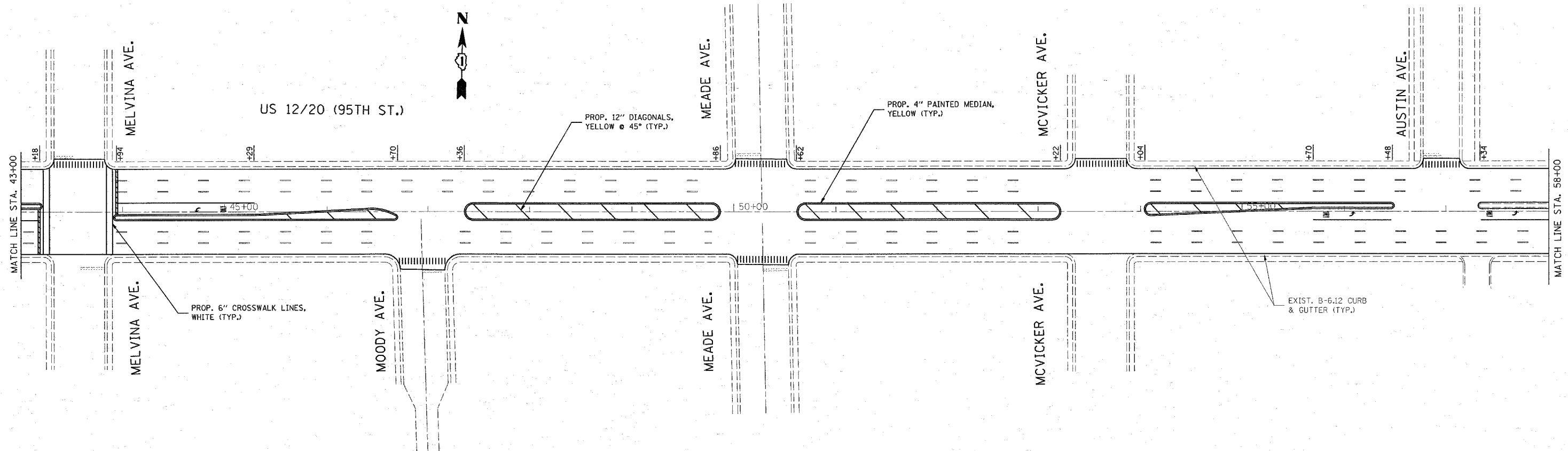
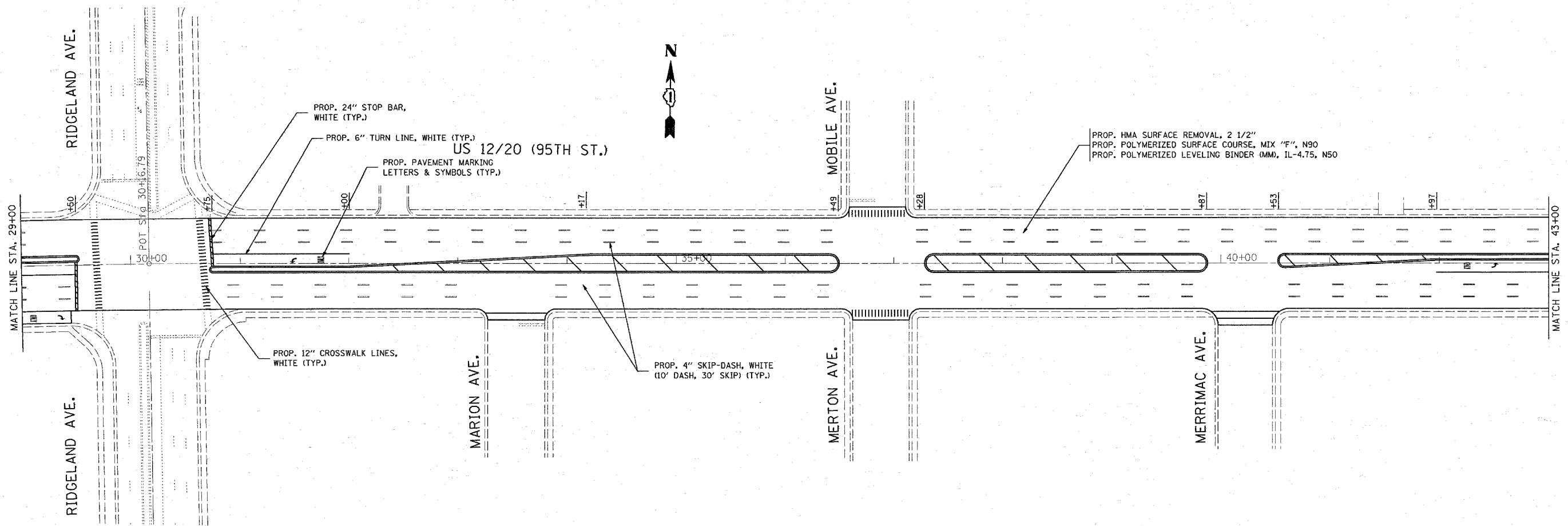
DESIGNED -	REVISED -
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CHECKED -	REVISED -
DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

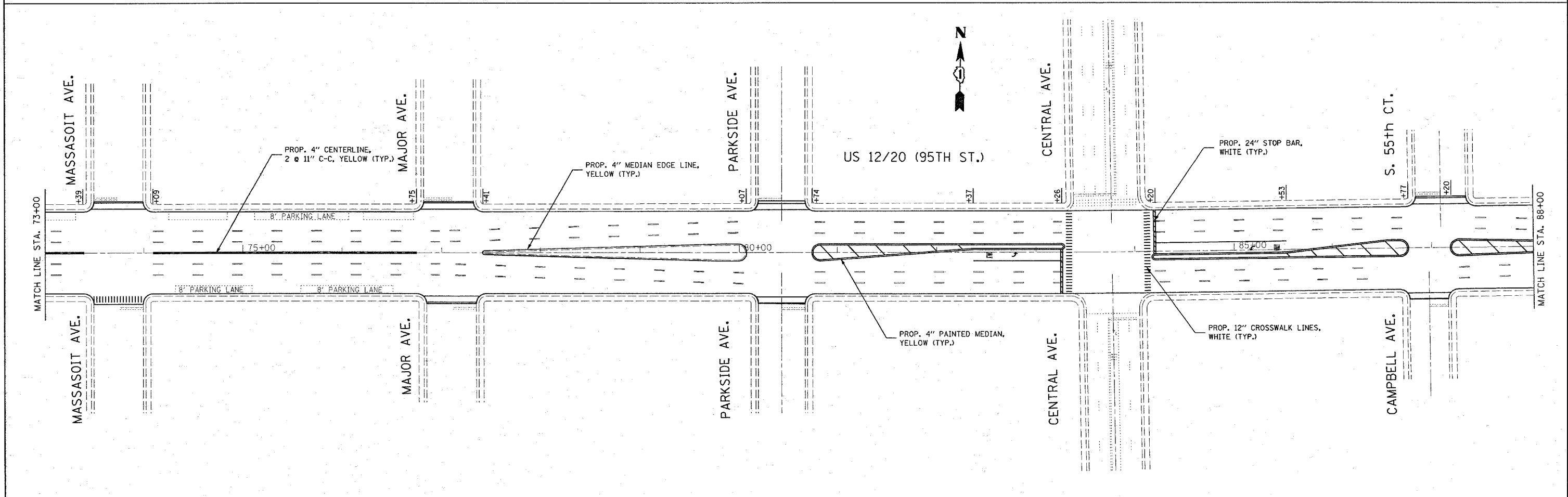
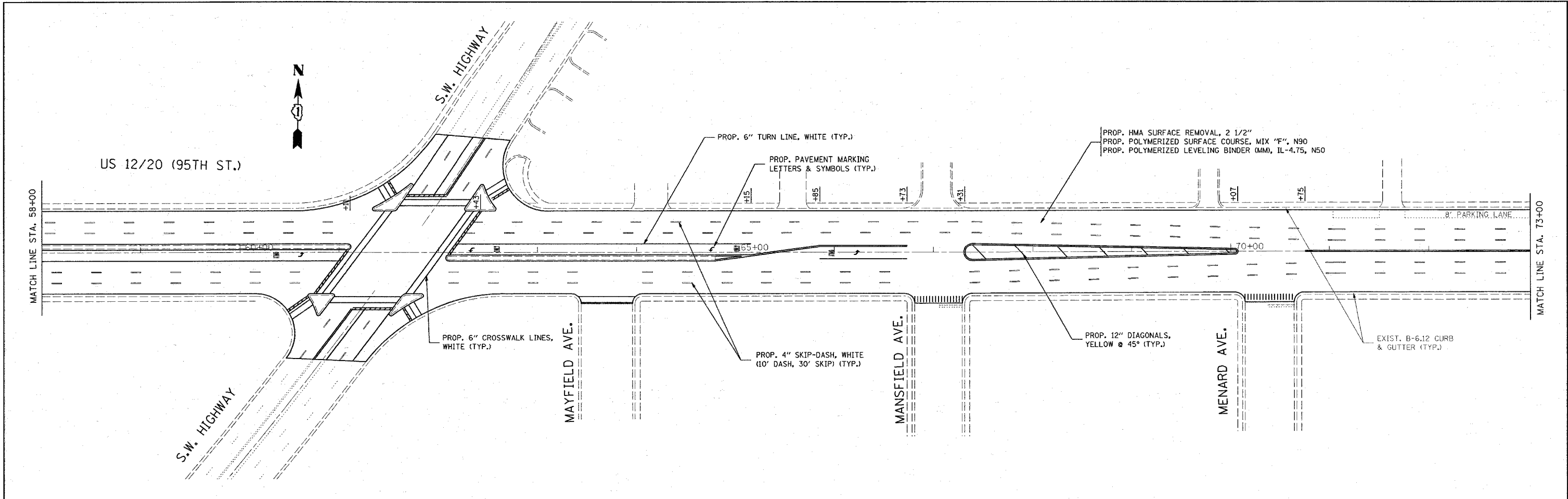
**US 1220 (OAK PARK AVE. TO WESTERN AVE.)
 ROADWAY AND PAVEMENT MARKING PLANS**

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

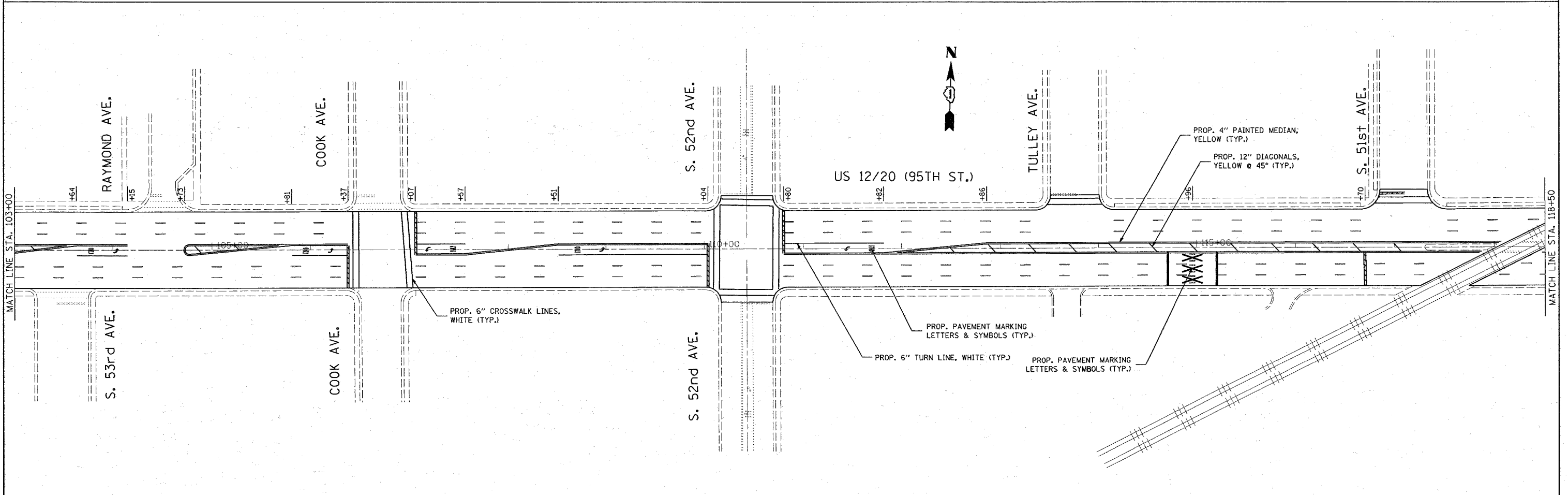
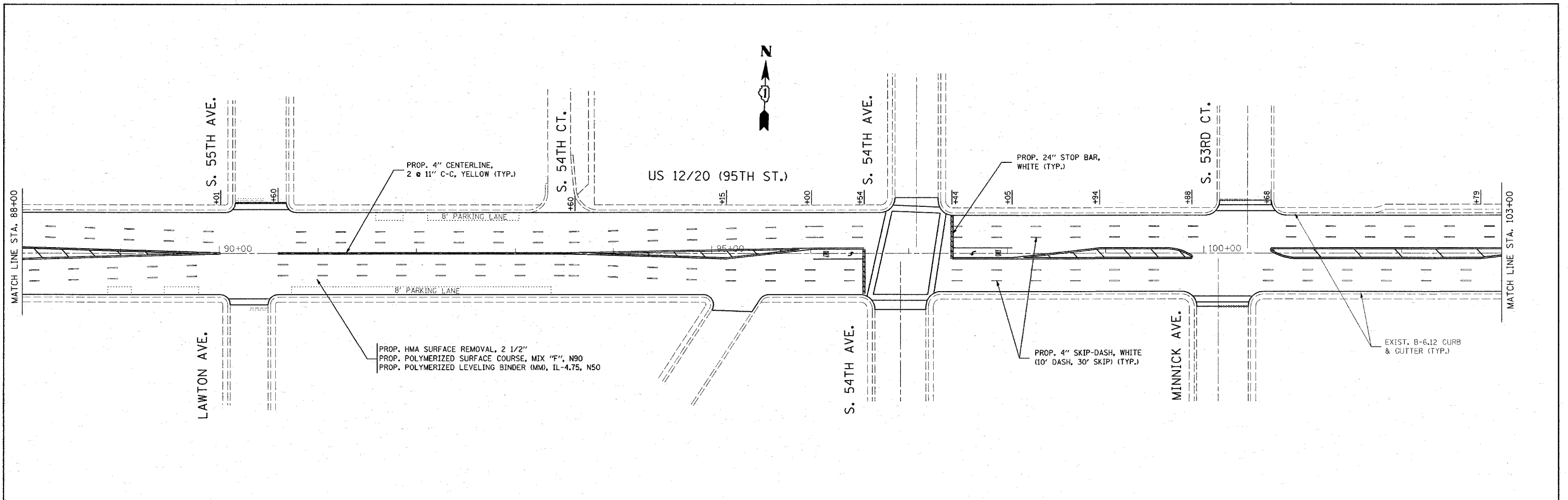
F.A.P. RTE. 029	SECTION 3239 (B-X&C) Z-RS-1	COUNTY COOK	TOTAL SHEETS 54	SHEET NO. 11
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 60D96	



FILE NAME = c:\projects\dl13408\sh_rdw\dgn	USER NAME = smthkl	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	US 12/20 (OAK PARK AVE. TO WESTERN AVE.) ROADWAY AND PAVEMENT MARKING PLANS	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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PLOT DATE = 4/1/2008	CHECKED -	REVISED -	CONTRACT NO. 60D96							
	DATE -	REVISED -	SCALE:			SHEET NO.	OF SHEETS	STA.	TO STA.	FED. ROAD DIST. NO.



FILE NAME = c:\projects\113488\sh_rdw.dgn	USER NAME = smthkl	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	US 1220 (OAK PARK AVE. TO WESTERN AVE.) ROADWAY AND PAVEMENT MARKING PLANS	F.A.P. RTE. 029	SECTION 3239 (B-X&C) Z-RS-1	COUNTY COOK	TOTAL SHEETS 54	SHEET NO. 13	
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PLOT DATE = 4/1/2008	DATE -	REVISED -	REVISED -			FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT					
						SCALE:	SHEET NO.	OF	SHEETS	STA.	TO



FILE NAME =
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DESIGNED -
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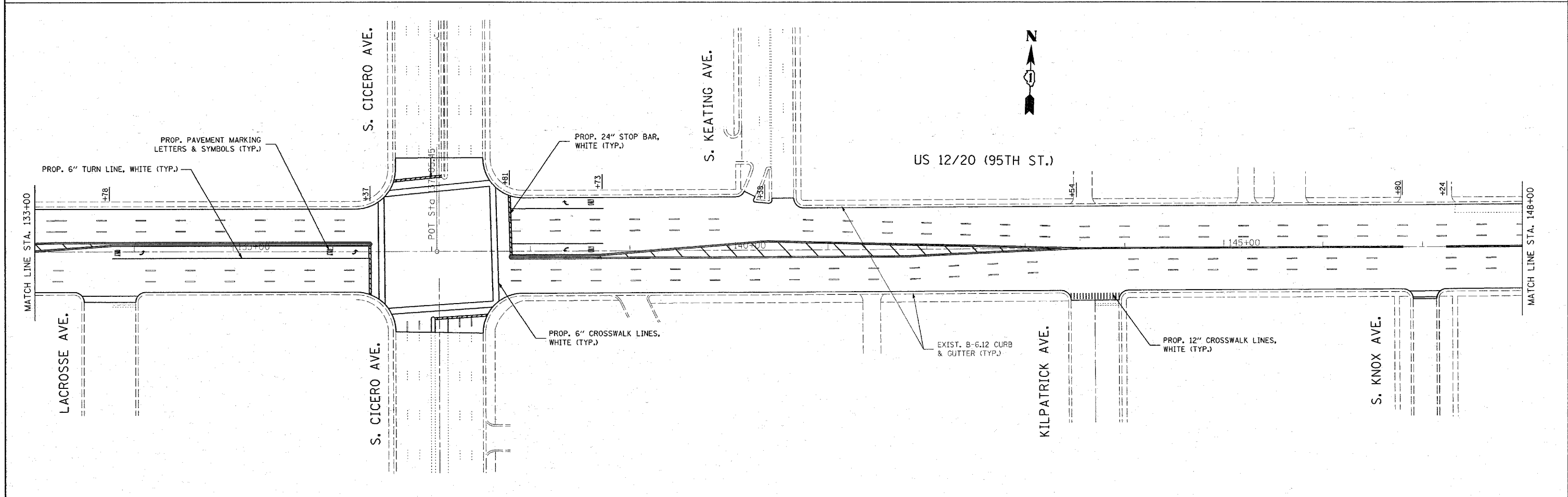
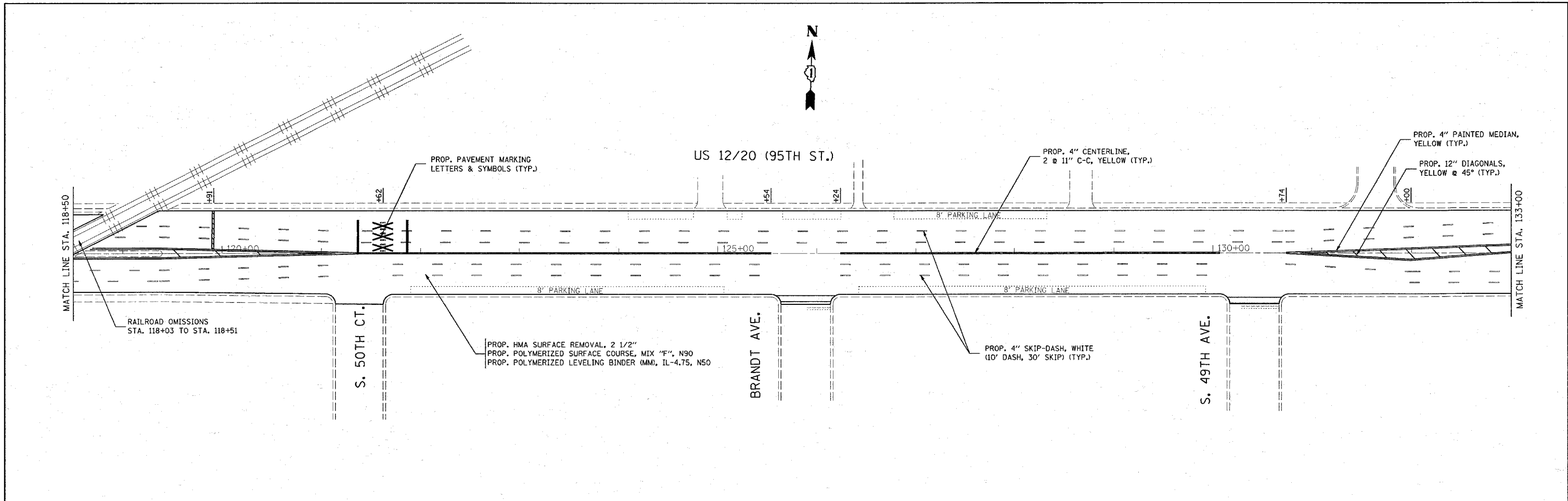
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

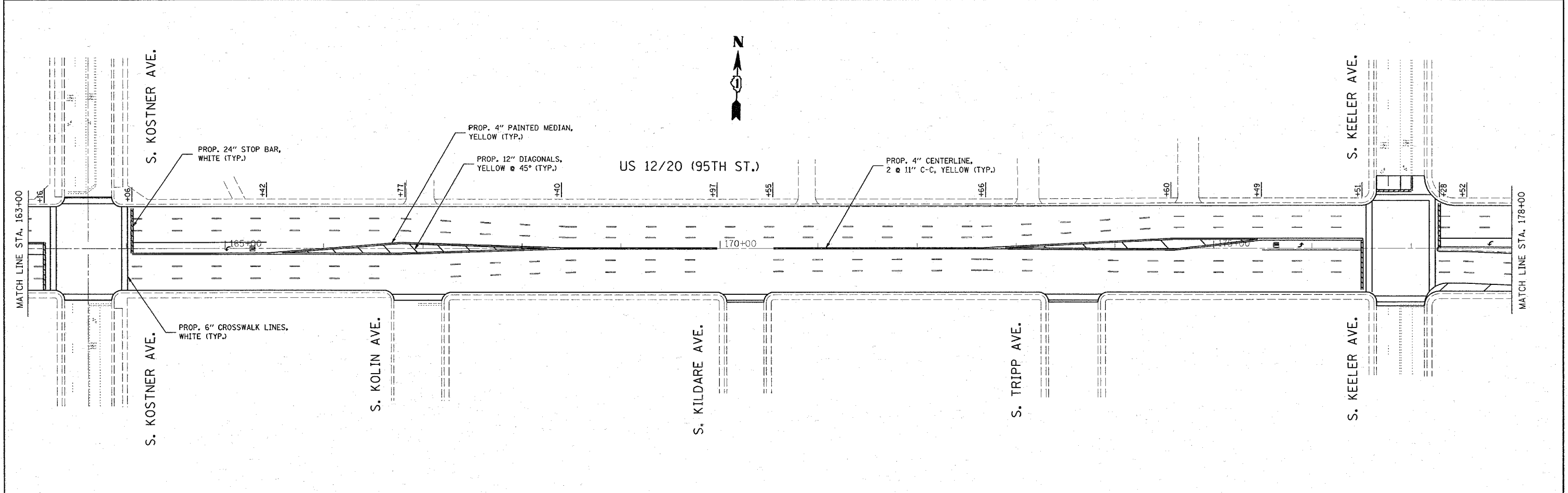
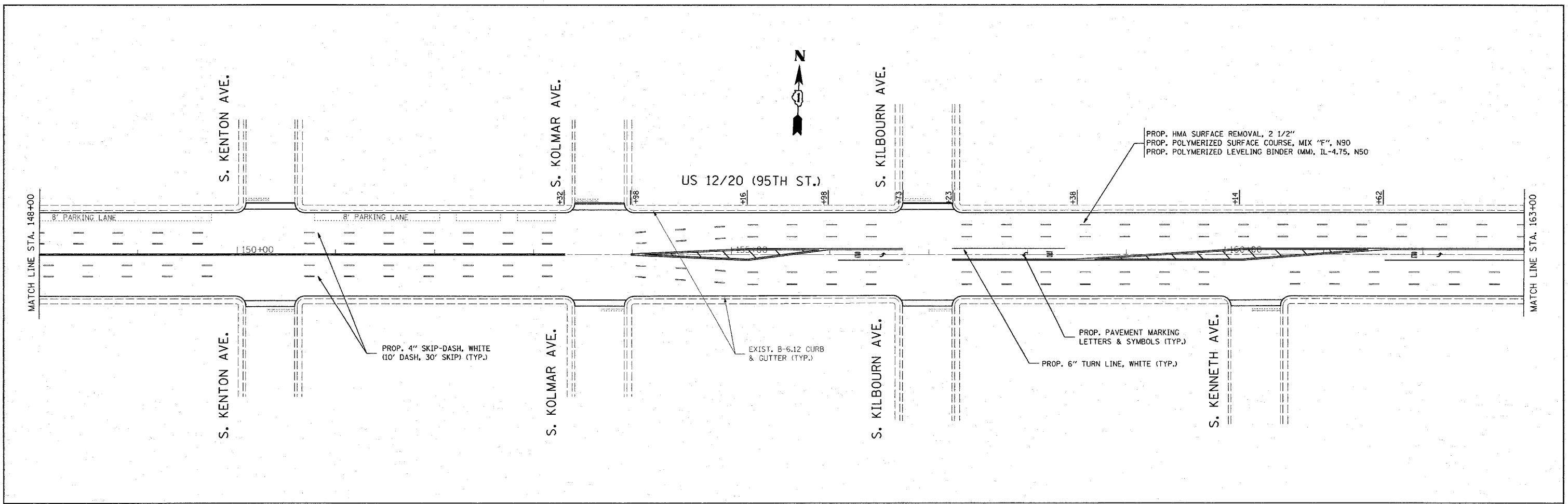
**US 12/20 (OAK PARK AVE. TO WESTERN AVE.)
 ROADWAY AND PAVEMENT MARKING PLANS**

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

F.A.P. RTE. 029	SECTION 3239 (B-X&C) Z-RS-1	COUNTY COOK	TOTAL SHEETS 54	SHEET NO. 14
CONTRACT NO. 60D96				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



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PLOT DATE = 4/1/2008	DATE -	REVISED -	SCALE:		SHEET NO.	OF	SHEETS	STA.	TO STA.	FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT		



FILE NAME =
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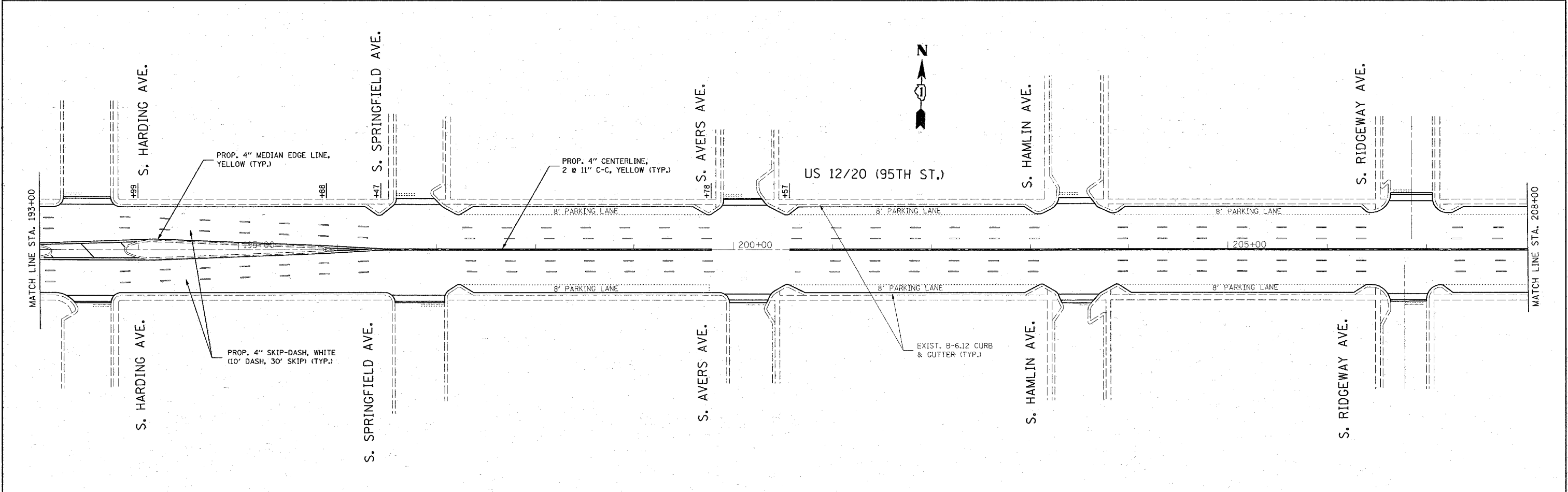
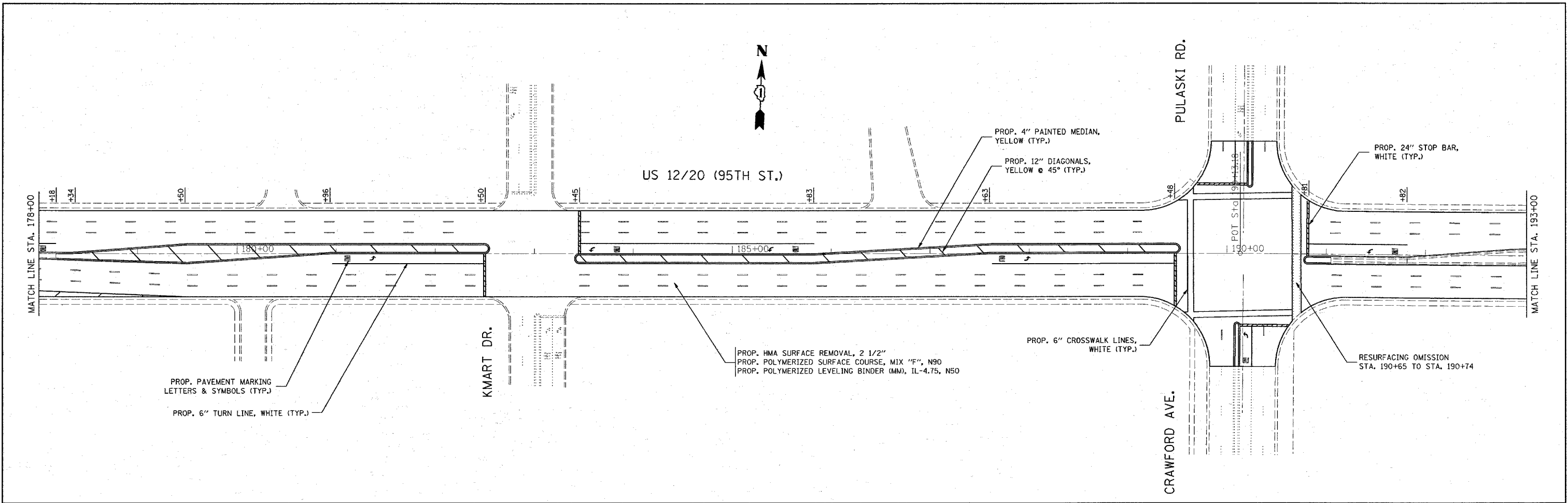
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

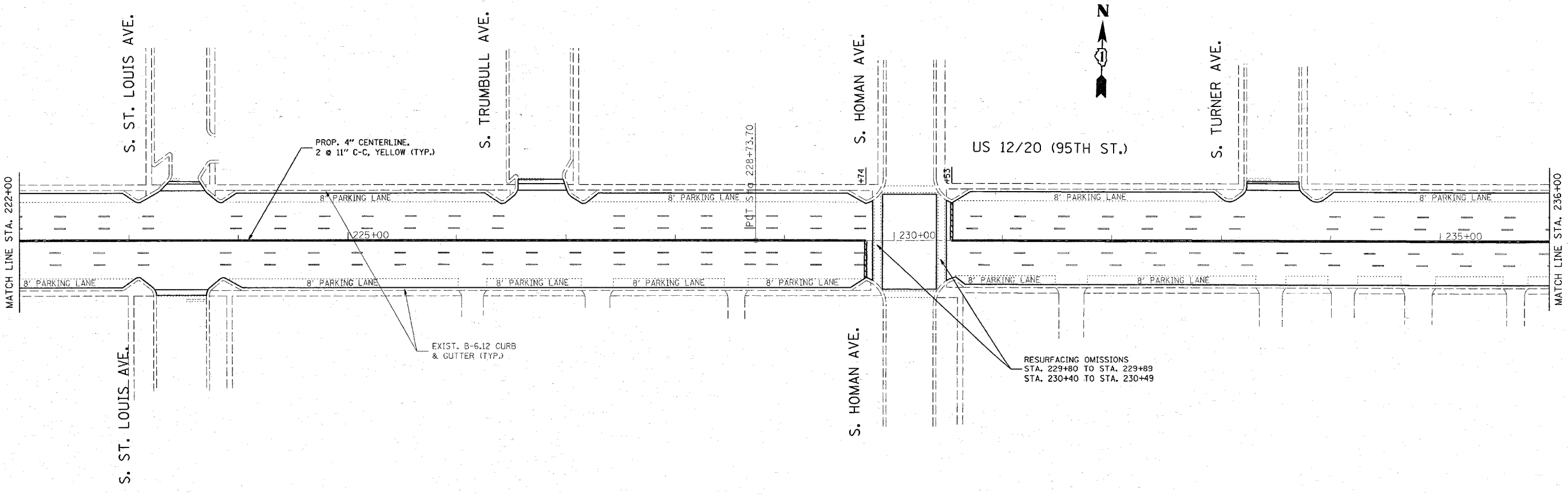
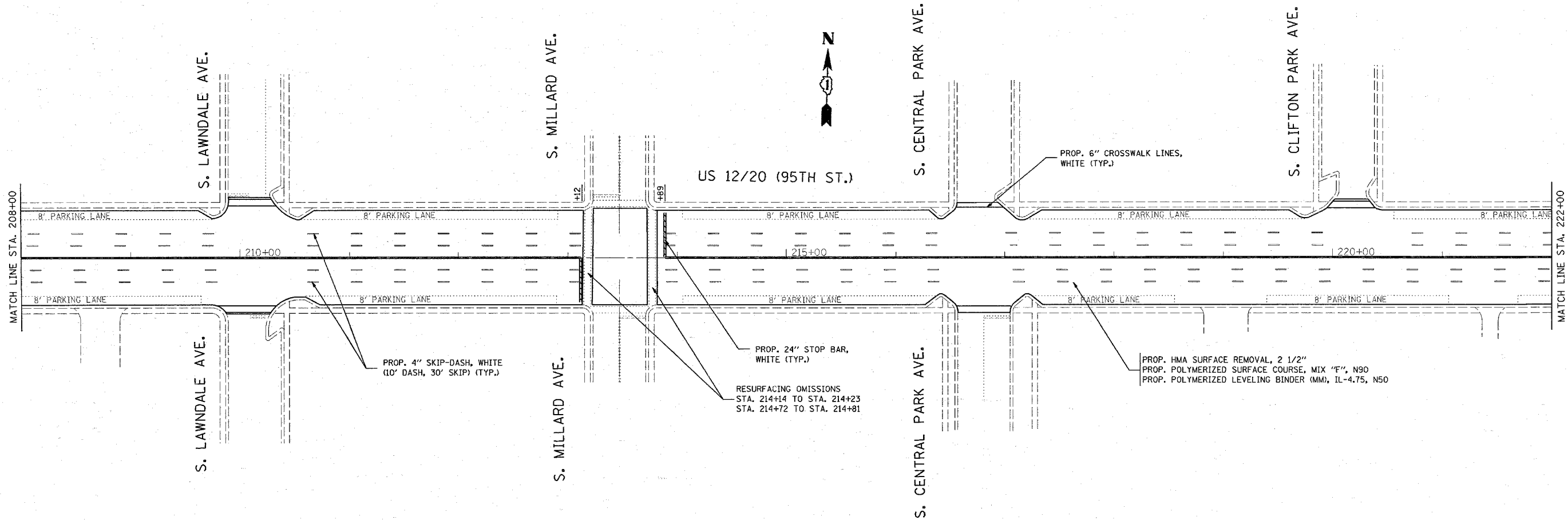
**US 12/20 (OAK PARK AVE. TO WESTERN AVE.)
 ROADWAY AND PAVEMENT MARKING PLANS**

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

F.A.P. RTE. 029	SECTION 3239 (B-X&C) Z-RS-1	COUNTY COOK	TOTAL SHEETS 54	SHEET NO. 16
CONTRACT NO. 60D96				
FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT				



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	PLOT SCALE = 50.0000' / IN.	DRAWN -	REVISED -			CONTRACT NO. 60D96				
PLOT DATE = 4/1/2008	CHECKED -	REVISED -	SCALE:		SHEET NO. OF SHEETS STA. TO STA.	FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				
	DATE -	REVISED -								



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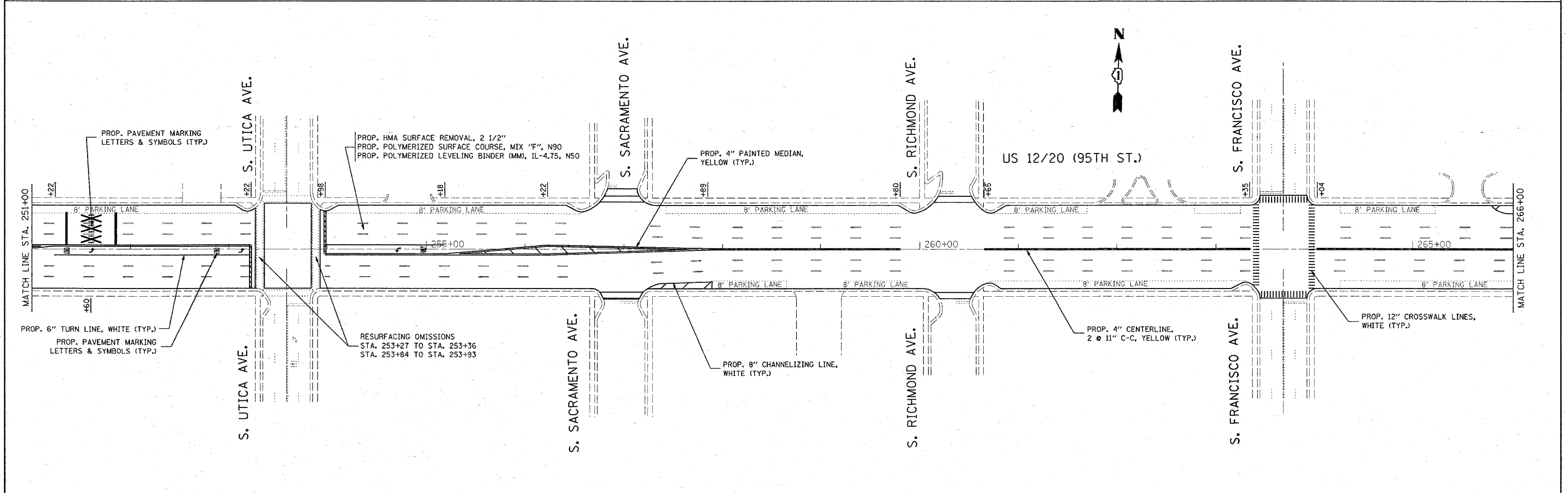
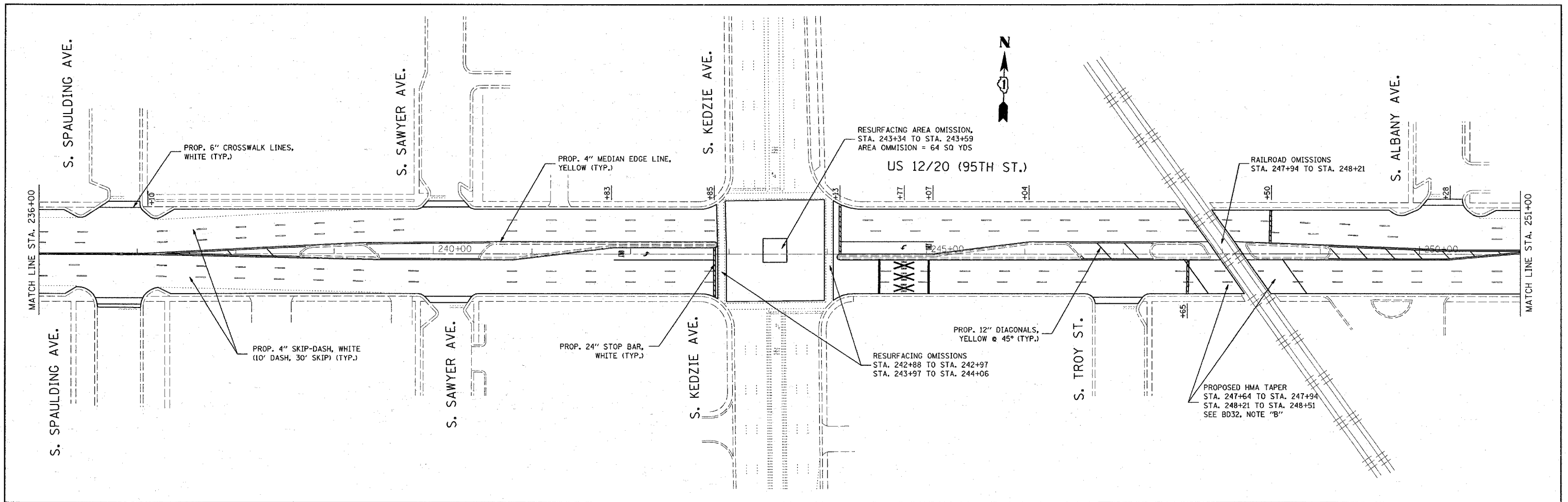
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

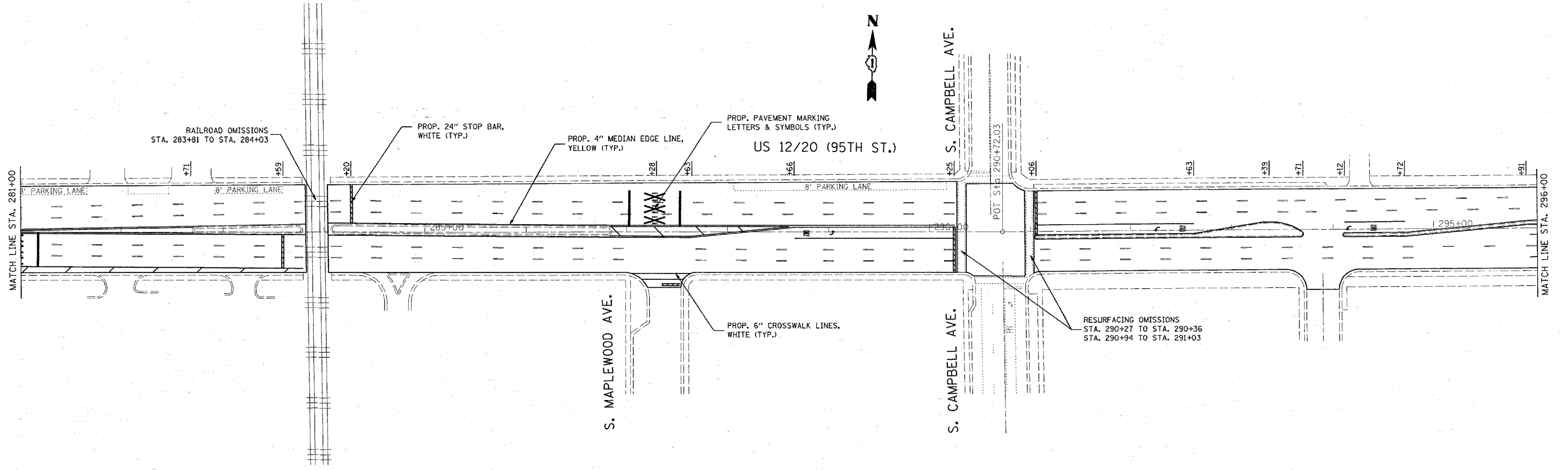
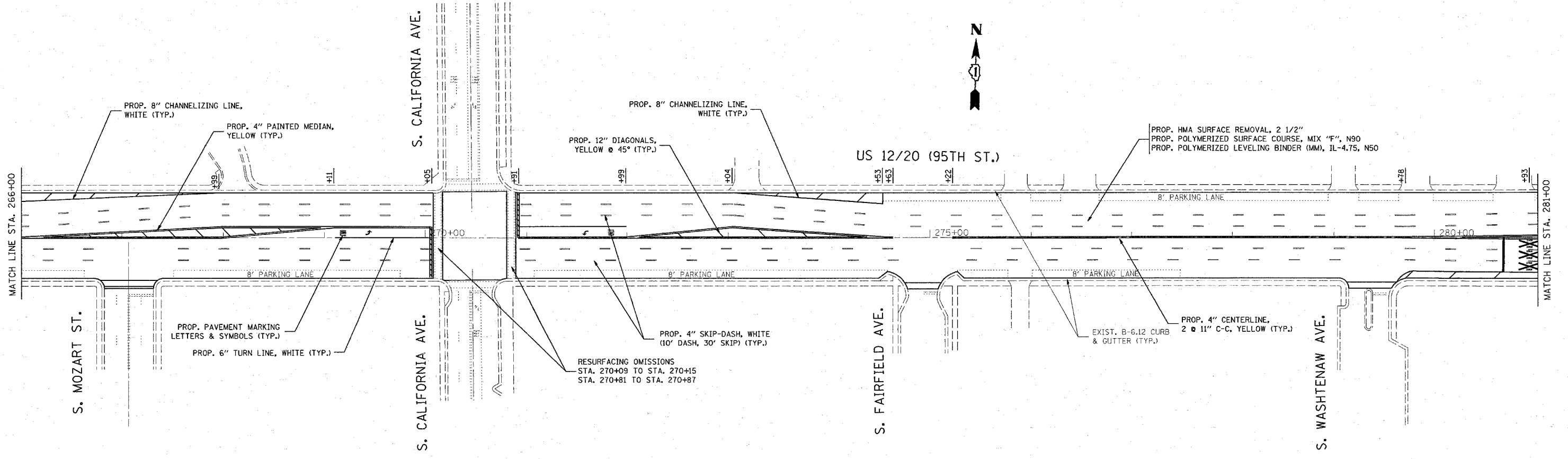
**US 12/20 (OAK PARK AVE. TO WESTERN AVE.)
 ROADWAY AND PAVEMENT MARKING PLANS**

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

F.A.P. RTE. 029	SECTION 3239 (B-X&C) Z-RS-1	COUNTY COOK	TOTAL SHEETS 54	SHEET NO. 18
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 60D96	



FILE NAME = c:\projects\dl13408\sh_rdw.dgn	USER NAME = sm:thkl	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	US 12/20 (OAK PARK AVE. TO WESTERN AVE.) ROADWAY AND PAVEMENT MARKING PLANS	F.A.P. RTE. 029	SECTION 3239 (B-X&C) Z-RS-1	COUNTY COOK	TOTAL SHEETS 54	SHEET NO. 19
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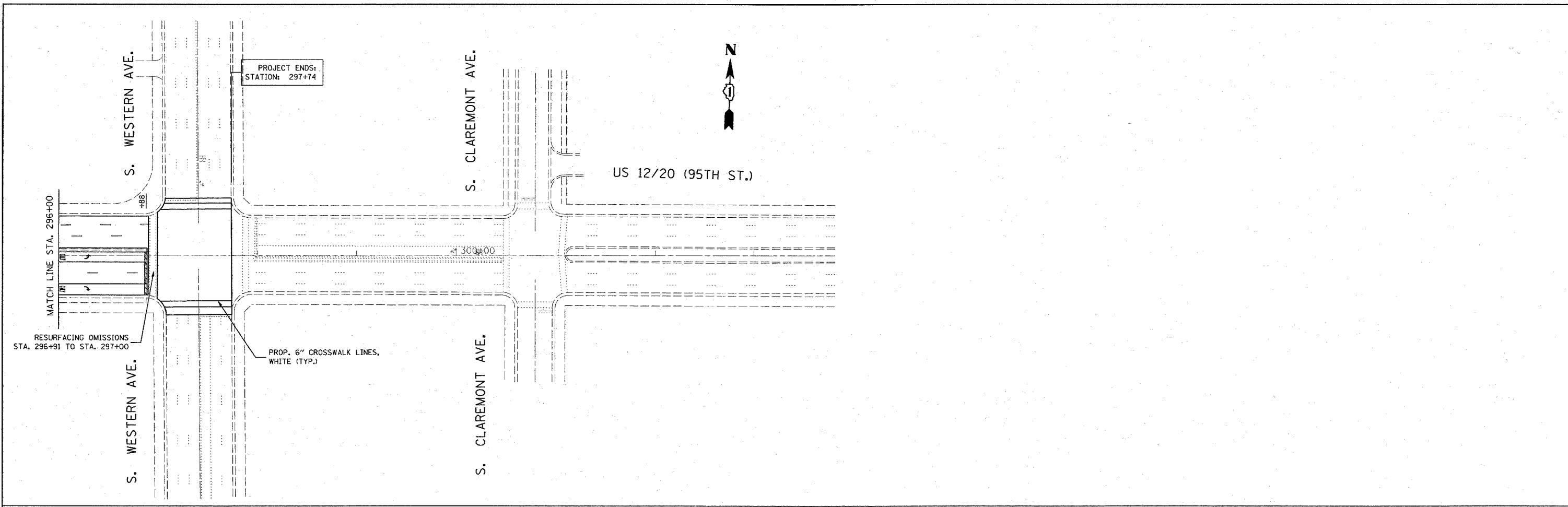
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DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**US 1220 (OAK PARK AVE. TO WESTERN AVE.)
 ROADWAY AND PAVEMENT MARKING PLANS**

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
029	3239 (B-X&C) Z-RS-1	COOK	54	20
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 60D96	



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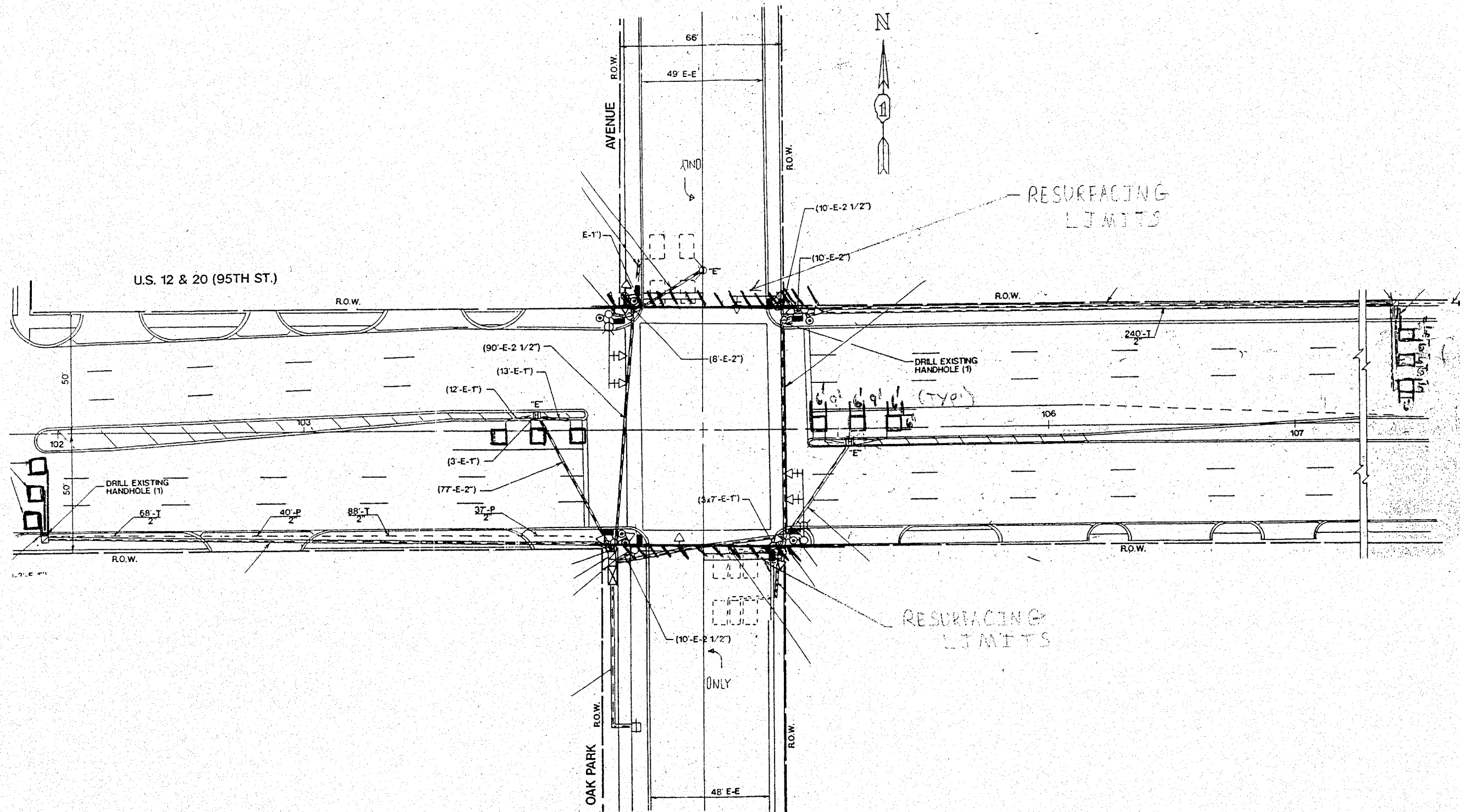
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**US 12/20 (OAK PARK AVE. TO WESTERN AVE.)
 ROADWAY AND PAVEMENT MARKING PLANS**

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
029	3239 (B-X&C) Z-RS-1	COOK	54	21
CONTRACT NO. 60D96				
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



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

CODE NO.	QUANTITY	UNIT	ITEM
88600600	372	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.

FILE NAME: c:\projects\0113488\sh.dwg

USER NAME: wilgranda	DESIGNED: -	REVISED: -
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PLOT DATE: 2/27/2008	CHECKED: -	REVISED: -
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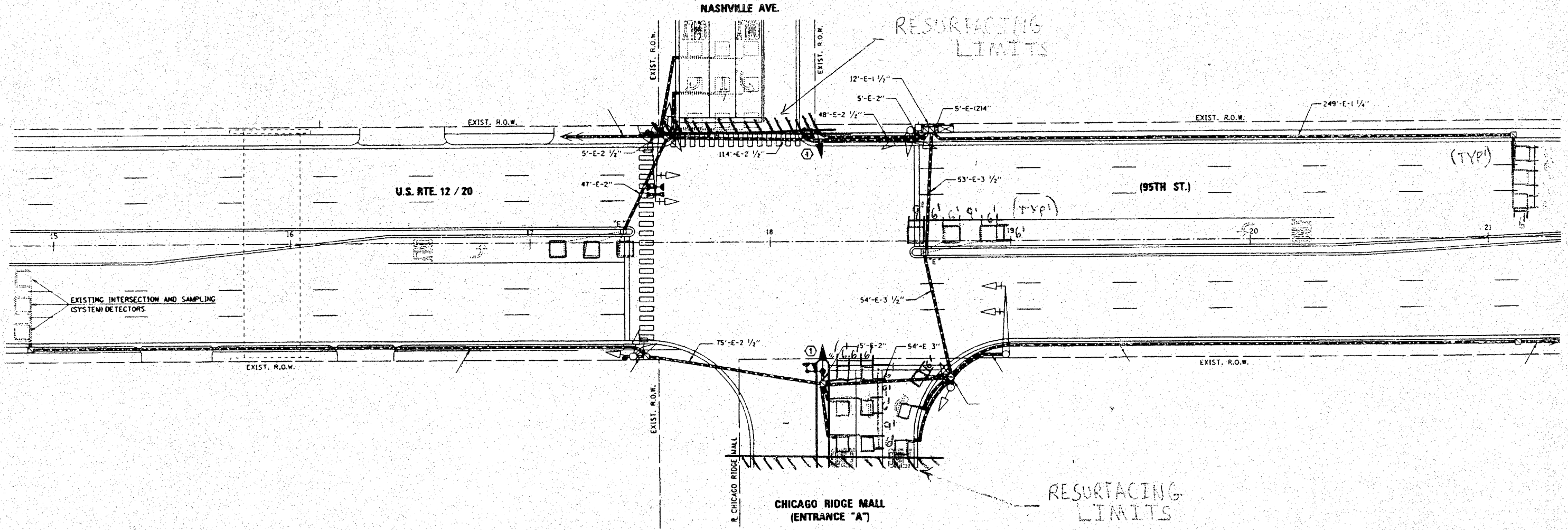
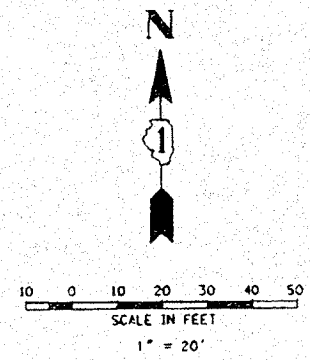
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**DETECTOR LOOP REPLACEMENT
US 12/20 (95TH ST.) AT OAK PARK AVE.**

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
029	3239 (B-X&C) Z-RS-1	COOK	54	22

CONTRACT NO. 60096



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

CODE NO.	QUANTITY	UNIT	ITEM
88100600	675	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.

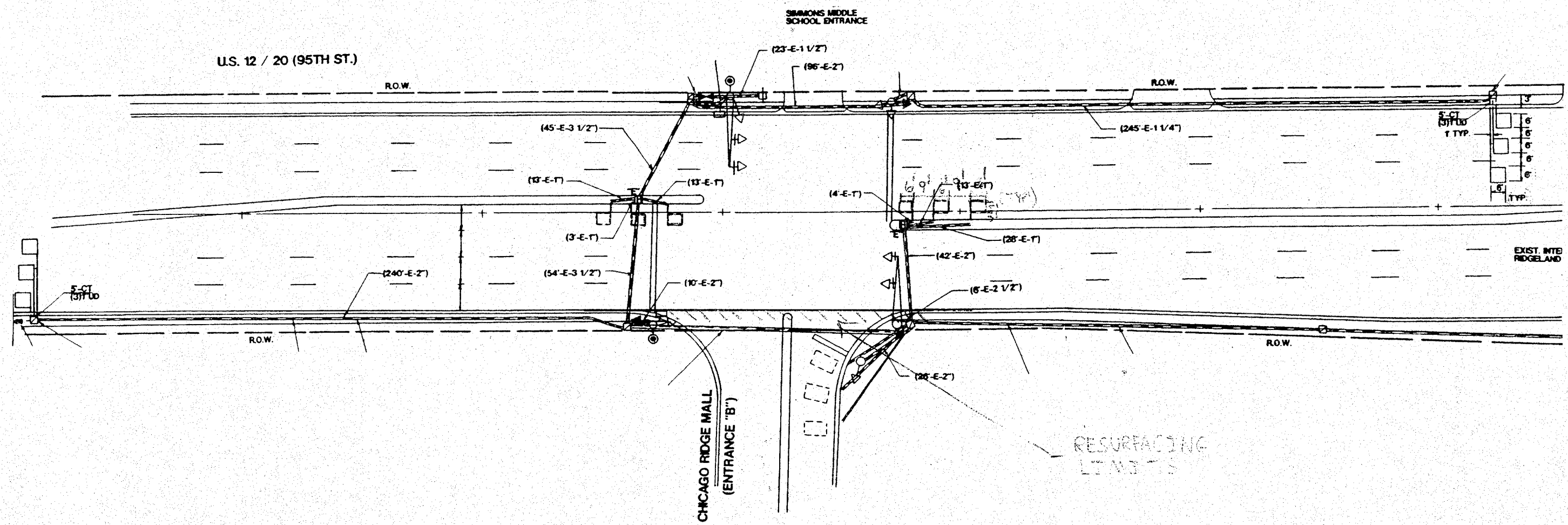
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PLOT DATE: 2/27/2000	CHECKED: -	REVISED: -
	DATE: -	REVISED: -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**DETECTOR LOOP REPLACEMENT
US 1220 (95TH ST.) AT NASHVILLE AVE/CHICAGO RIDGE MALL (ENTR. "A")**

F.A.P. RTE. 029	SECTION 3239 1B-X&C) Z-RS-1	COUNTY COOK	TOTAL SHEETS 54	SHEET NO. 23
SCALE: SHEET NO. OF SHEETS STA. TO STA.			CONTRACT NO. 60096	



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

CODE NO.	QUANTITY	UNIT	ITEM
88500600	384	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.

FILE NAME: c:\projects\113488\sh-dwg.dgn

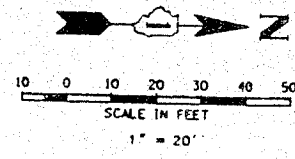
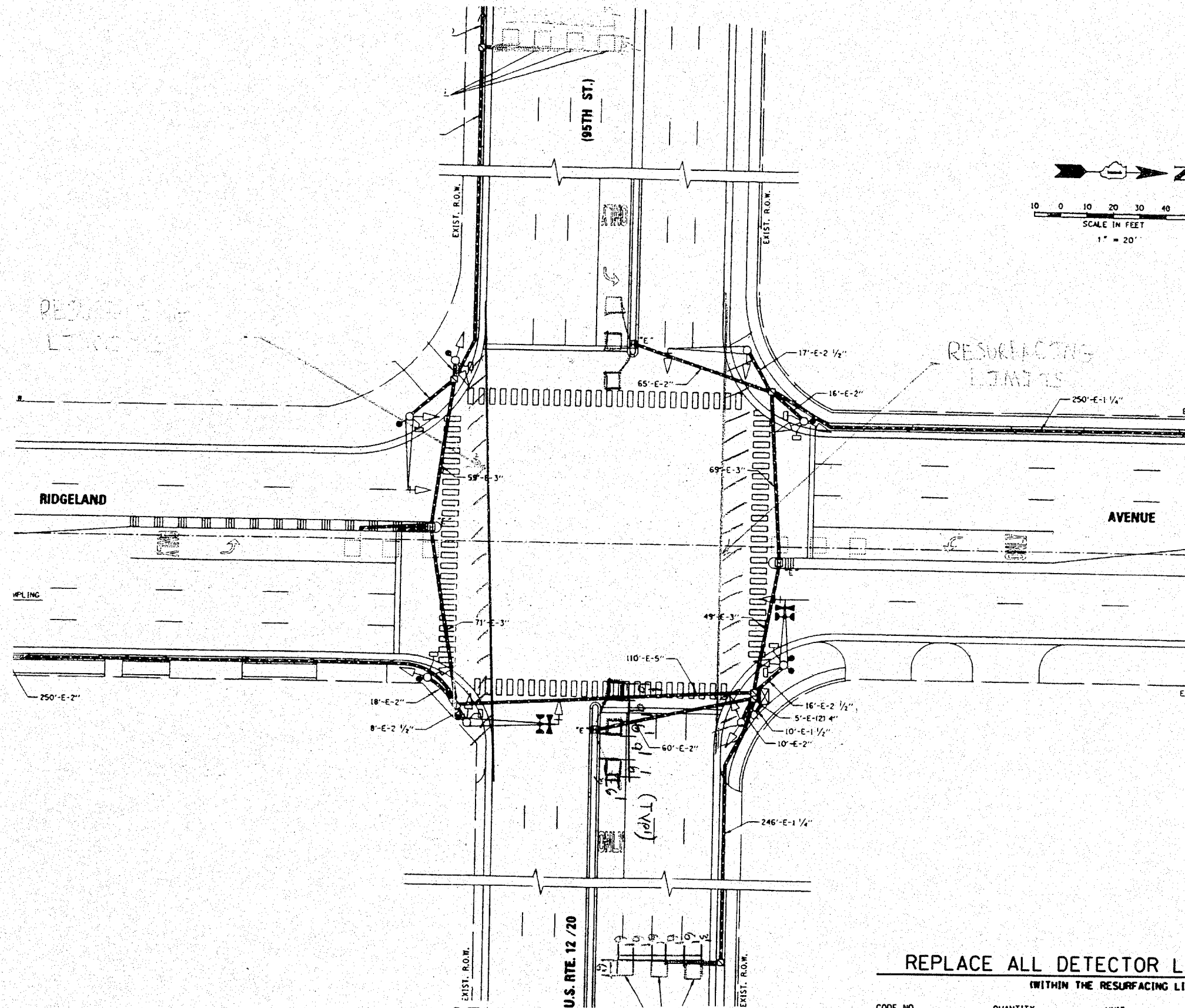
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PLOT DATE: 2/27/2009	CHECKED: -	REVISED: -
	DATE: -	REVISED: -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DETECTOR LOOP REPLACEMENT
US 12/20 (95TH ST.) AT CHICAGO RIDGE MALL (ENTR. "B")

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
029	3239 (B-X&C) Z-RS-1	COOK	34	24
CONTRACT NO. 60096				



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

CODE NO.	QUANTITY	UNIT	ITEM
88600600	459	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.

FILE NAME:
 USER NAME: SMITHKL

DESIGNED:
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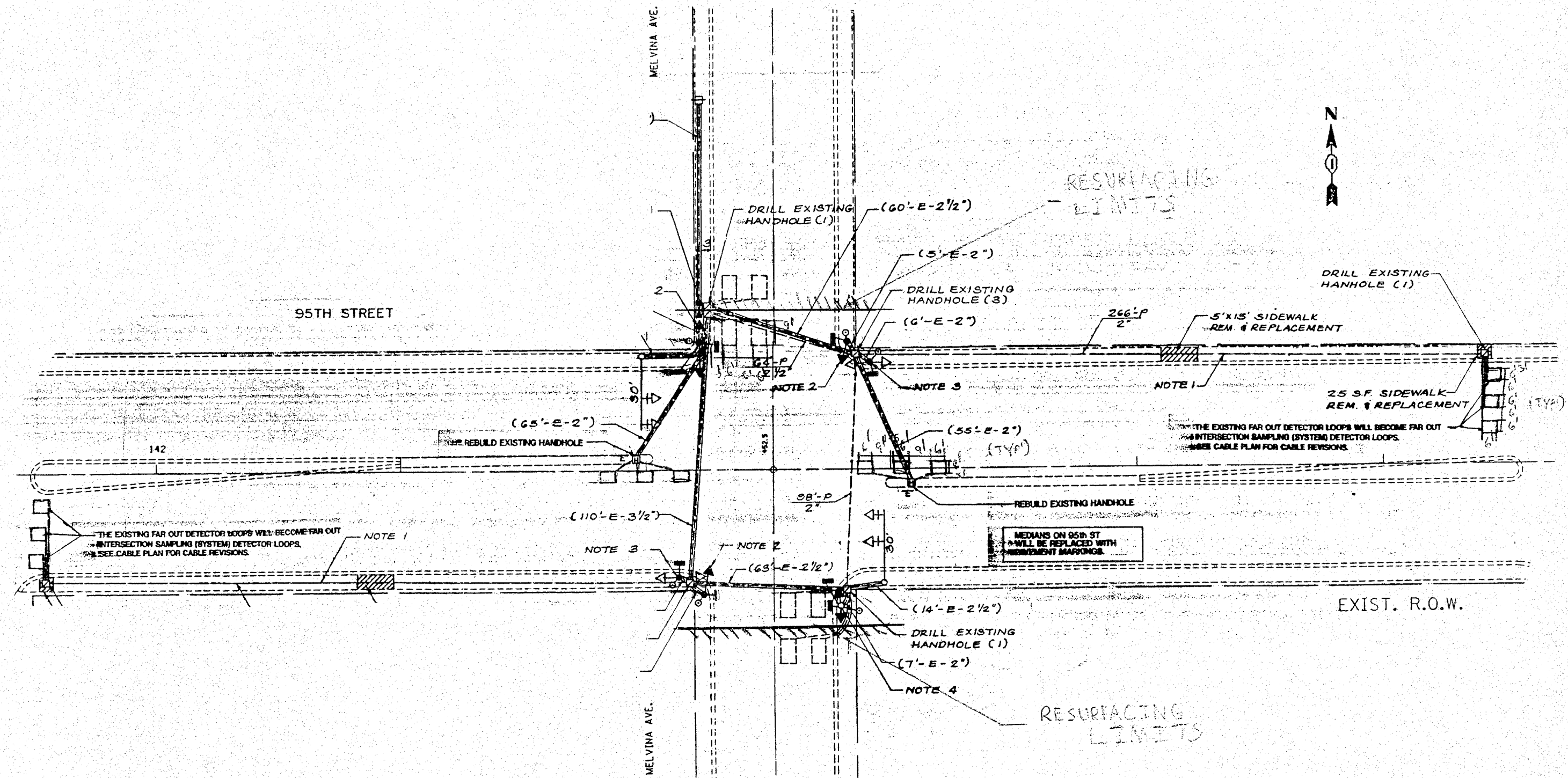
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DETECTOR LOOP REPLACEMENT
US 12/20 (95TH ST.) AT RIDGELAND AVE.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
029	3239 (B-X&C) Z-RS-1	COOK	54	25

CONTRACT NO. 60096



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

CODE NO.	QUANTITY	UNIT	ITEM
88600600	552	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.

FILE NAME: c:\projects\113400\sh_rdw.dgn

USER NAME: wilgrendp
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 PLOT DATE: 2/27/2008

DESIGNED -
 DRAWN -
 CHECKED -
 DATE -

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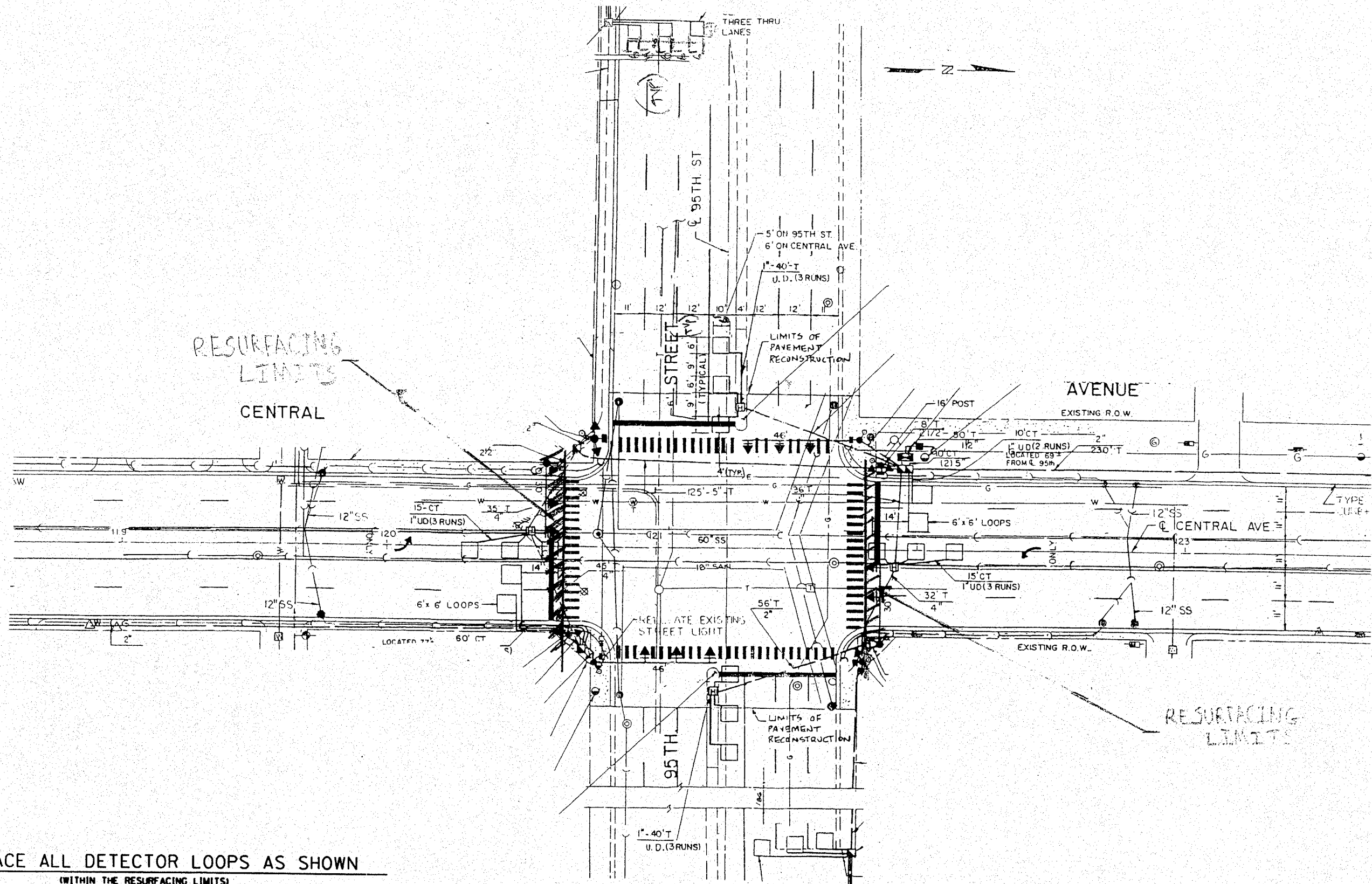
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**DETECTOR LOOP REPLACEMENT
 US 1220 (95TH ST.) AT MELVINA AVE.**

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
029	3239 (B-X&C) 2-RS-1	COOK	54	26
CONTRACT NO. 60096				

FED. ROAD DIST. NO. 1 (ILLINOIS) AIR PROJECT



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

CODE NO.	QUANTITY	UNIT	ITEM
88600600	396	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.

TITLE NAME
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USER NAME = SMITHKI
 PLOT SCALE = 100.0000 / IN.
 PLOT DATE = 2/28/2008

DESIGNED -
 DRAWN -
 CHECKED -
 DATE

REVISED -
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 REVISED -

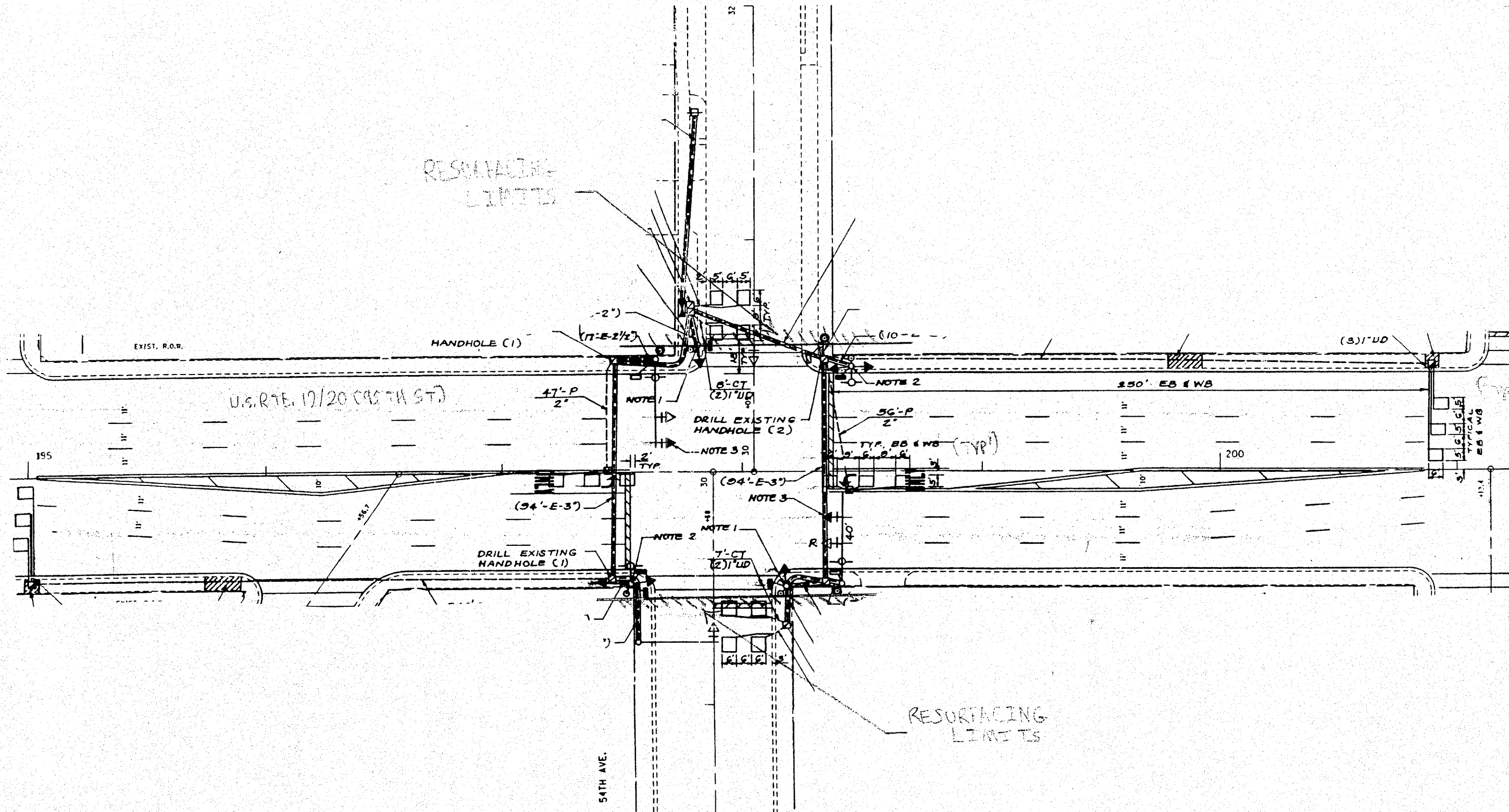
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DETECTOR LOOP REPLACEMENT
US 12/20 (95TH ST.) AT CENTRAL AVE.

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
029	3239 (B-X&C) Z-RS-1	COOK	54	28

CONTRACT NO. 60096

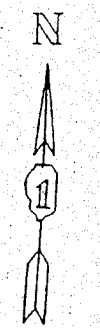
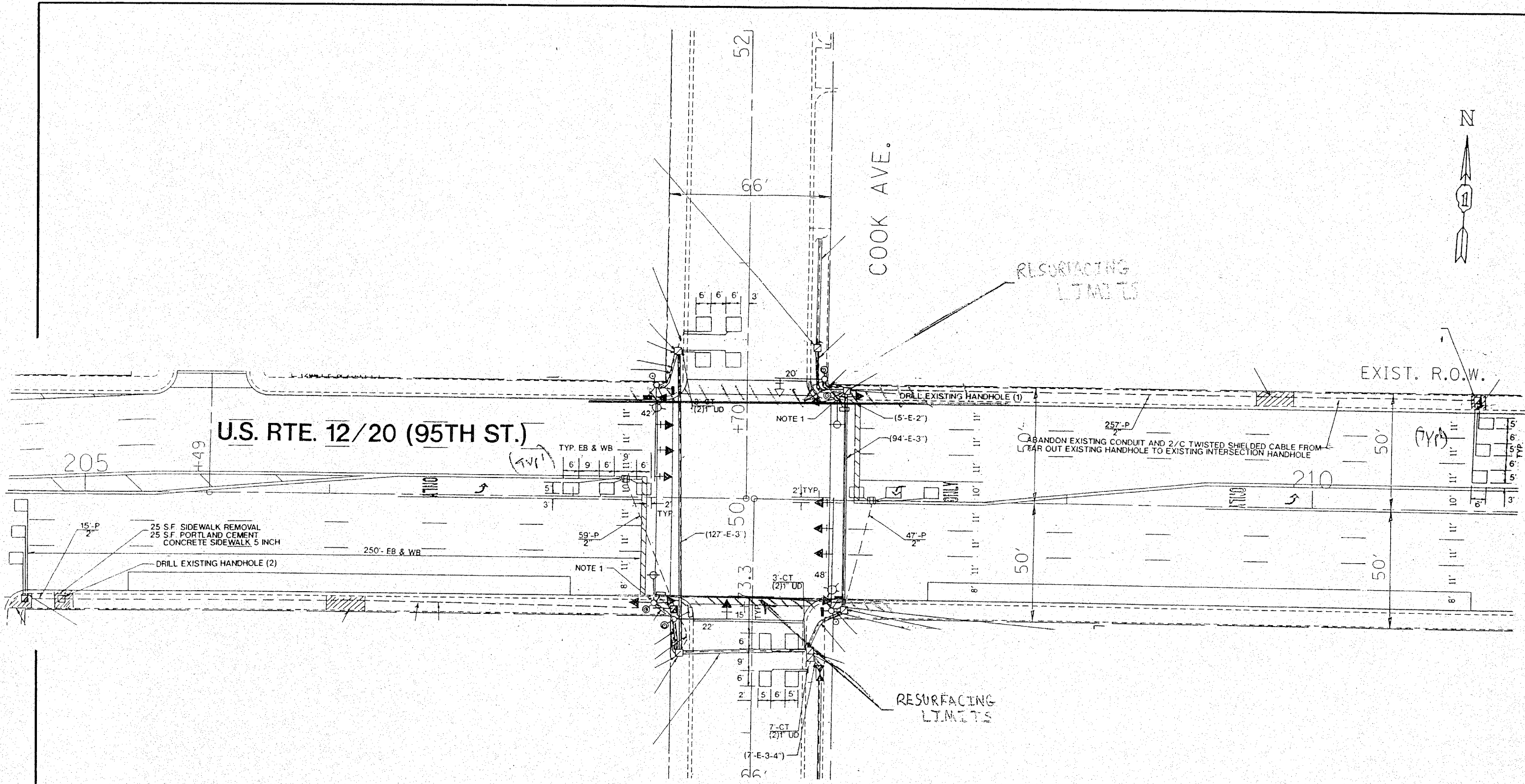


REPLACE ALL DETECTOR LOOPS AS SHOWN
(WITHIN THE RESURFACING LIMITS)

CODE NO.	QUANTITY	UNIT	ITEM
88600600	366	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.

FILE NAME : c:\projects\113486\sh_rdey.dgn	USER NAME : wilgreendp	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DETECTOR LOOP REPLACEMENT US 12/20 (95TH ST.) AT 54TH AVE.	F.A.P. RTE. : 029	SECTION : 3239 (B-X&C) Z-RS-1	COUNTY : COOK	TOTAL SHEETS : 34	SHEET NO. : 29	
PLOT SCALE : 100.0000' / IN.	CHECKED -	REVISED -	SCALE:			SHEET NO. OF SHEETS	STA. TO STA.	CONTRACT NO. 60096			
PLOT DATE : 2/27/2008	DATE -	REVISED -	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	366	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.

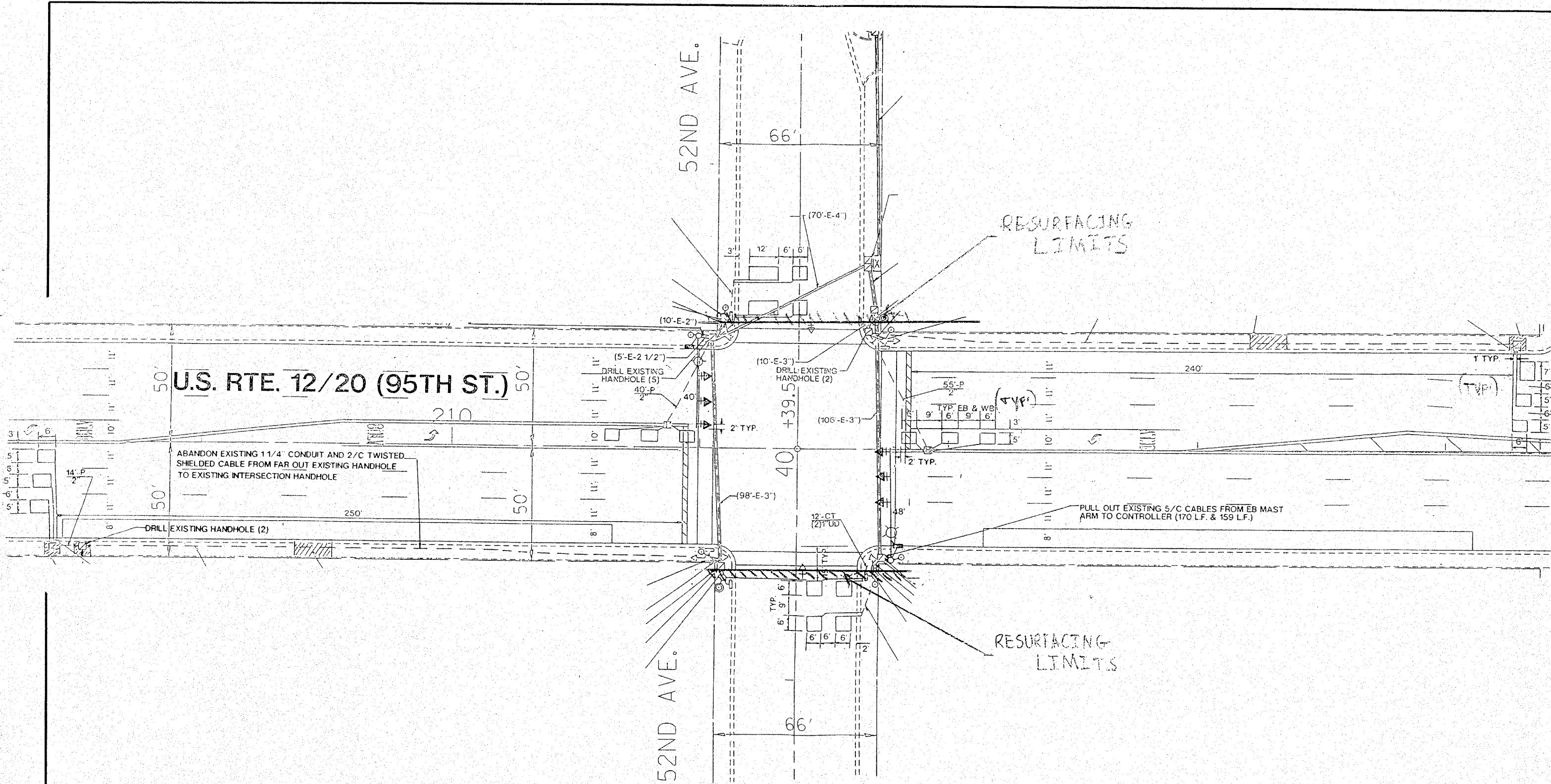
FILE NAME : c:\projects\dl13488\sh-dwg.dgn	USER NAME : wilgreendp	DESIGNED -	REVISED -
		DRAWN -	REVISED -
		CHECKED -	REVISED -
		DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**DETECTOR LOOP REPLACEMENT
US 1220 (95TH ST.) AT COOK AVE.**

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
029	3239 (B-X&C) Z-RS-1	COOK	54	30
CONTRACT NO. 60096				



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

CODE NO.	QUANTITY	UNIT	ITEM
88600600	379	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.

FILE NAME =
c:\projects\113408\sh_rdw.dgn

USER NAME = wlg-eadp
PLOT SCALE = 1/8" = 1' / IN.
PLOT DATE = 2/27/2008

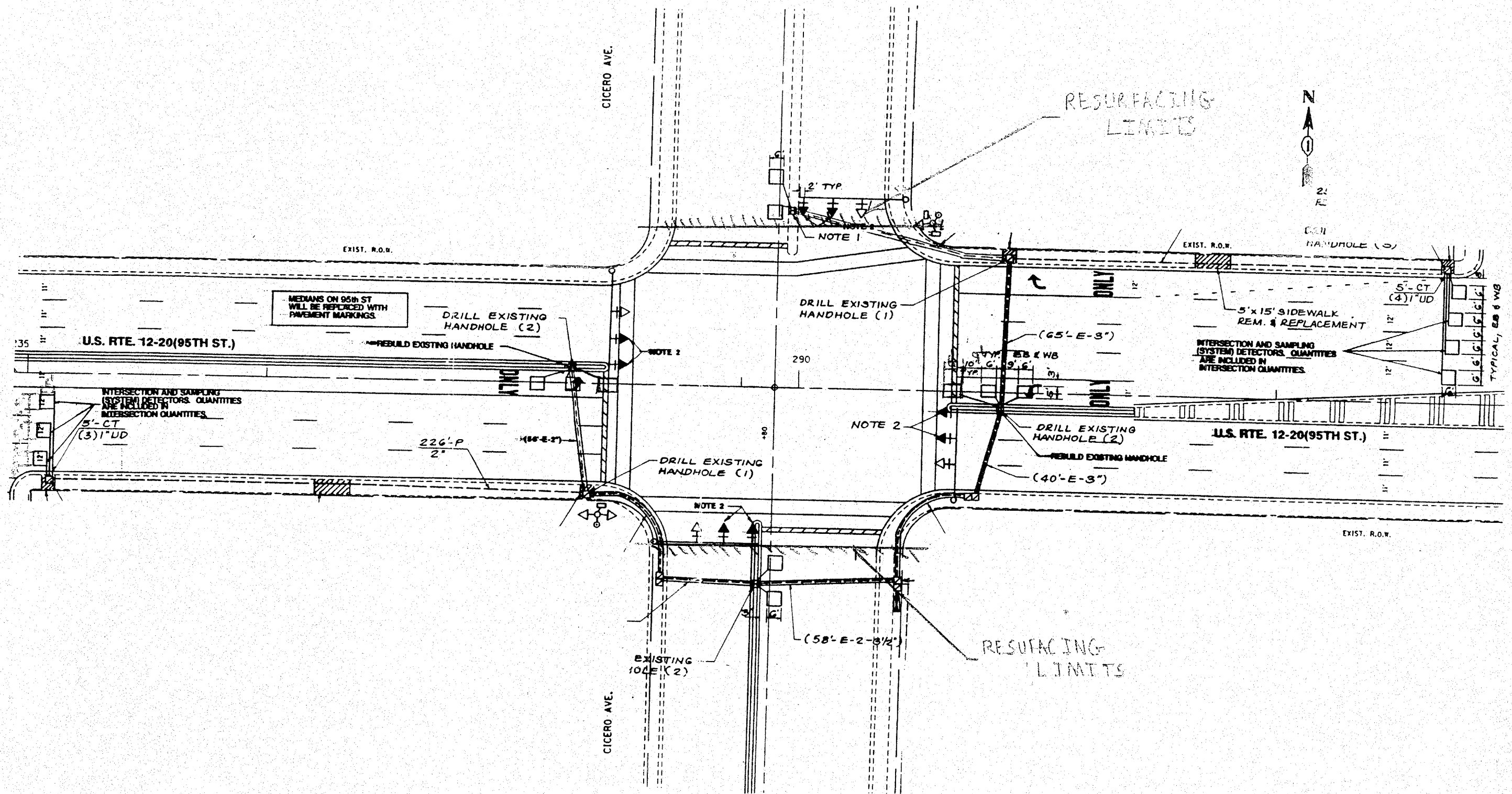
DESIGNED -	REVISED -
DRAWN -	REVISED -
CHECKED -	REVISED -
DATE	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**DETECTOR LOOP REPLACEMENT
US 1220 (95TH ST.) AT 52ND AVE.**

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
029	3239 (B-X&C) Z-RS-1	COOK	54	31
CONTRACT NO. 60096				
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	447	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.

FILE NAME: c:\projects\113488\sh-dwg.dgn

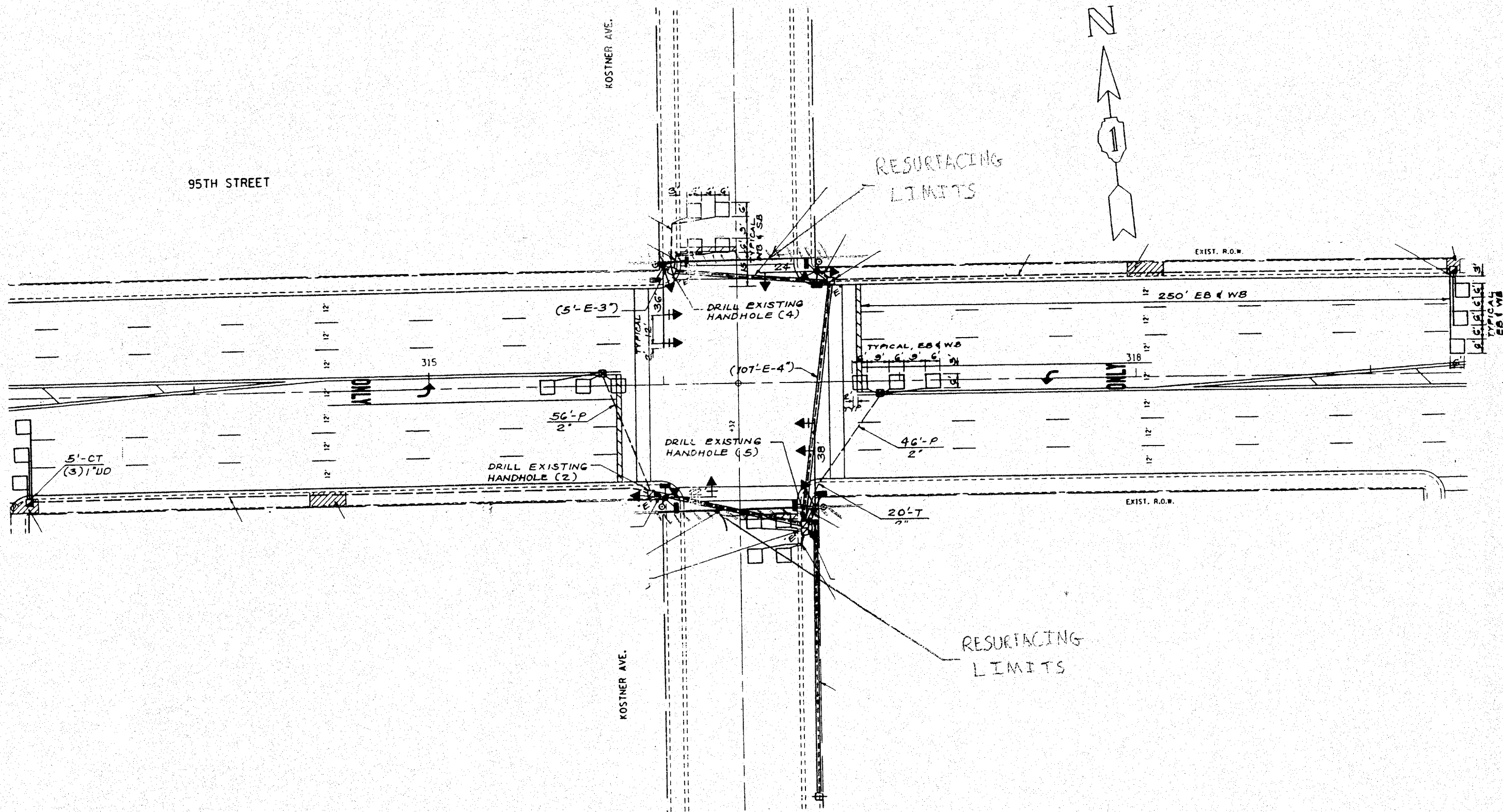
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PLOT SCALE: 100.0000 1/4" = 1'	DRAWN: -	REVISED: -
PLOT DATE: 12/27/2008	CHECKED: -	REVISED: -
	DATE: -	REVISED: -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DETECTOR LOOP REPLACEMENT
US 12/20 (95TH ST.) AT IL RTE. 50 (CICERO AVE.)

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
029	3239 1B-X&C) 2-RS-1	COOK	54	32

CONTRACT NO. 60096



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

CODE NO.	QUANTITY	UNIT	ITEM
88600600	396	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.

FILE NAME :
c:\projects\113488\sh...dwg.dgn

USER NAME = wilgreenp
PLOT SCALE = 100.0000 / IN.
PLOT DATE = 2/27/2008

DESIGNED -	REVISED -
DRAWN -	REVISED -
CHECKED -	REVISED -
DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DETECTOR LOOP REPLACEMENT
US 1220 (95TH ST.) AT KOSTNER AVE.

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
029	3235 (B-X&C) Z-RS-1	COOK	34	33
CONTRACT NO. 60096				

FFD, ROAD DIST. NO. 1 ILLINDIST. AID PROJECT

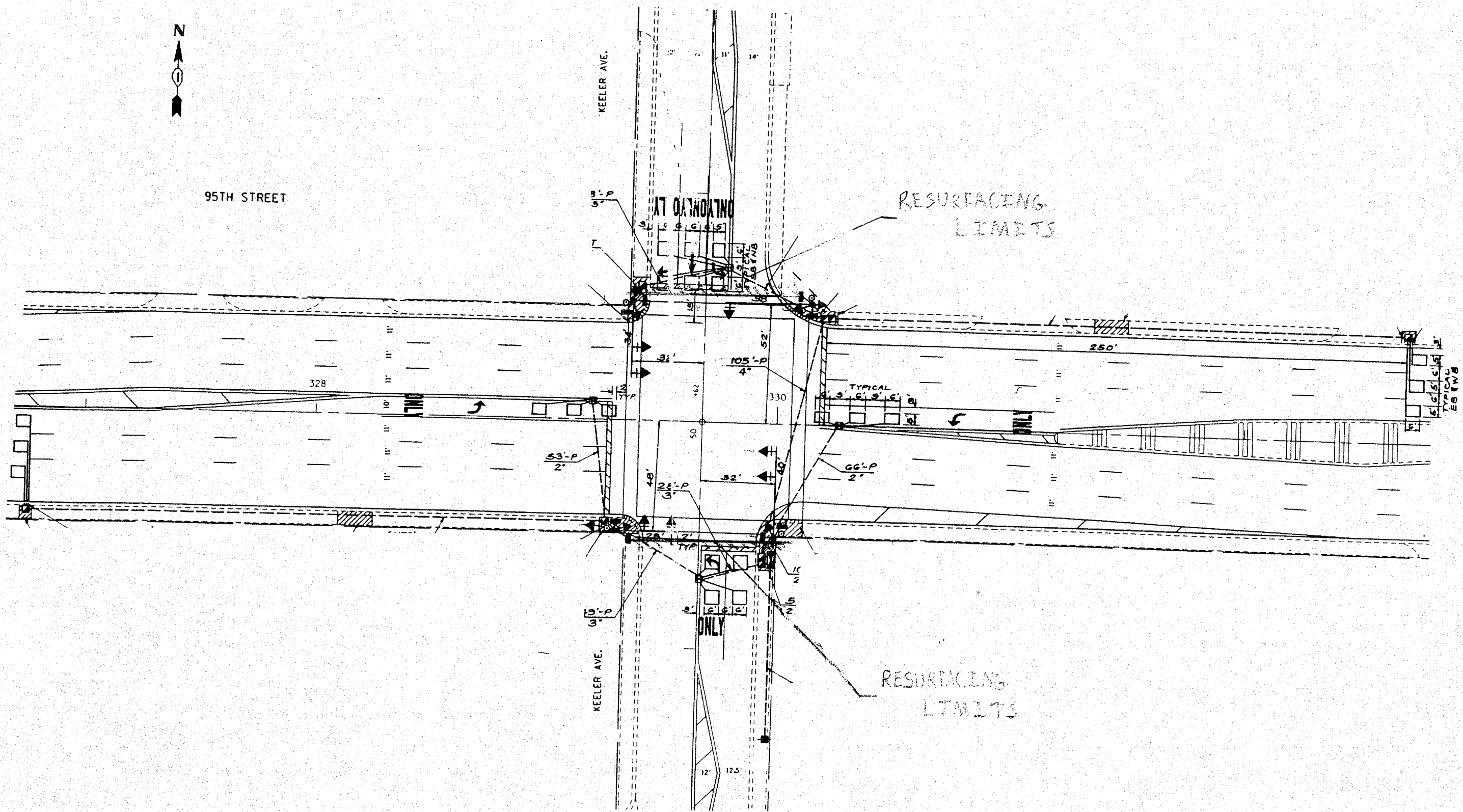


95TH STREET

KEELER AVE.

AT INTERSECTION

RESURFACING LIMITS



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

CODE NO.	QUANTITY	UNIT	ITEM
88500600	366	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.

FILE NAME: c:\projects\dl13488\sh.rdw.dgn

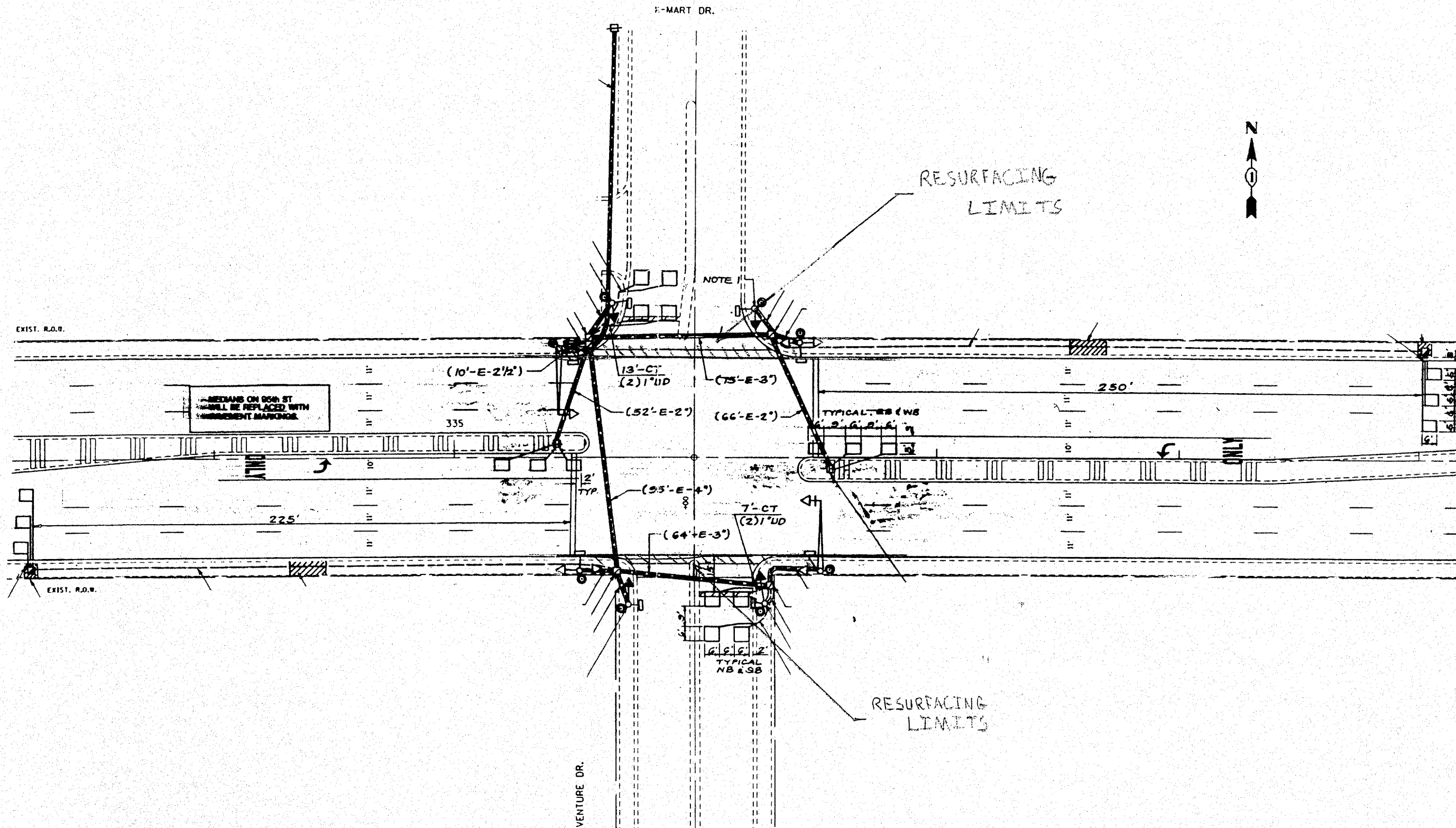
USER NAME: wilgreendp	DESIGNED: -	REVISED: -
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PLOT DATE: 2/27/2008	CHECKED: -	REVISED: -
	DATE: -	REVISED: -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DETECTOR LOOP REPLACEMENT
US 12/20 (95TH ST.) AT KEELER AVE.

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
029	3239 (B-X&C) Z-RS-1	COOK	54	24
CONTRACT NO. 60096				
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	366	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.

FILE NAME: c:\projects\113408\sh-dwg.dgn
USER NAME: wilgraendp

DESIGNED -
DRAWN -
CHECKED -
DATE -

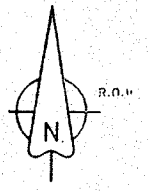
REVISED -
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REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**DETECTOR LOOP REPLACEMENT
US 12/20 (95TH ST.) AT KMART/VENTURE DR.**

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
029	3239 (B-X&C) 2-RS-1	COOK	54	35
CONTRACT NO. 60096				



RESURFACING LIMITS

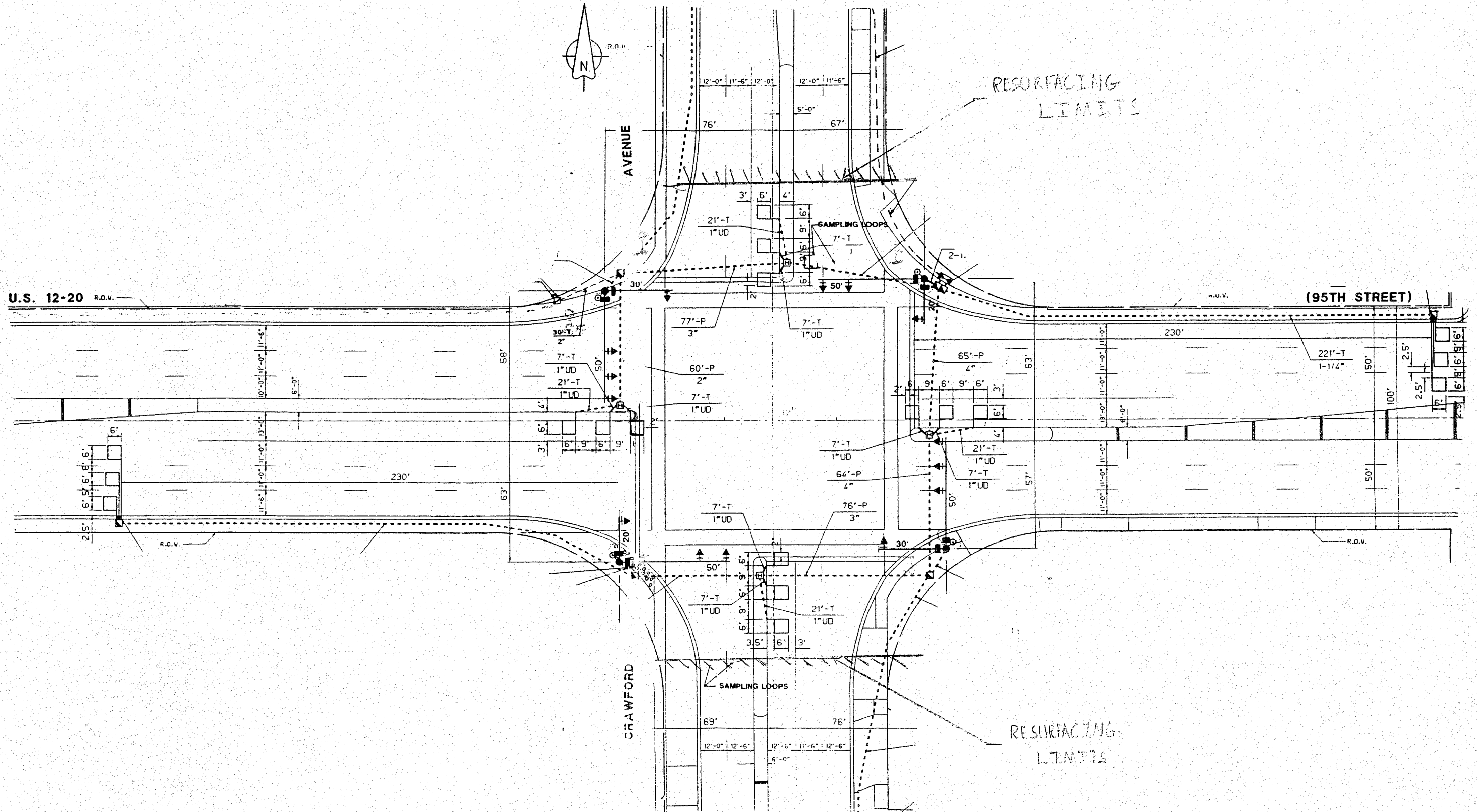
RESURFACING LIMITS

U.S. 12-20 R.O.V.

(95TH STREET) R.O.V.

AVENUE

CRAWFORD



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

CODE NO.	QUANTITY	UNIT	ITEM
88600600	546	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.

FILE NAME: c:\projects\113488\sh-rday.dgn

USER NAME: wilgreenda
DESIGNED: -
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DATE: 2/27/2008

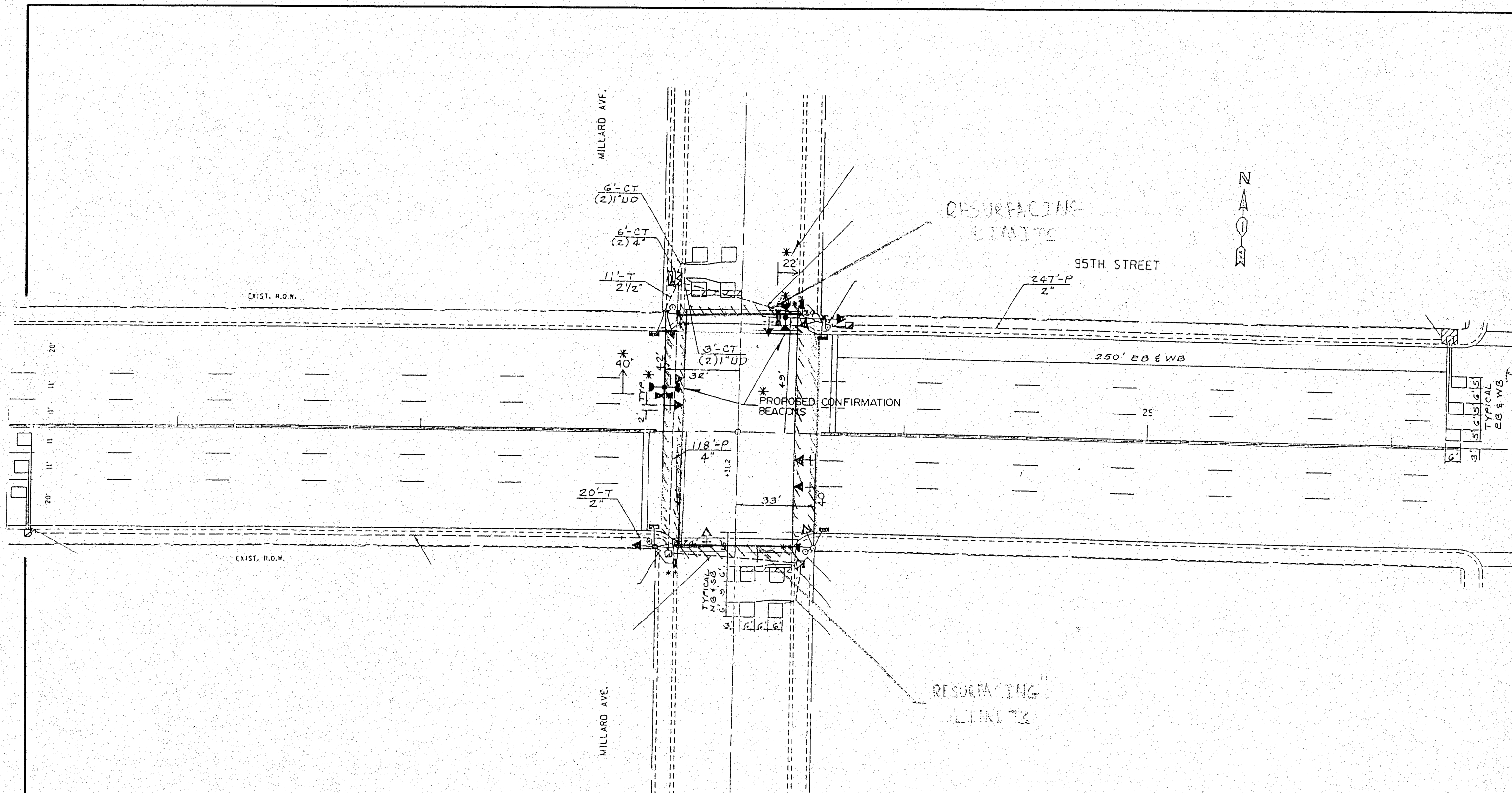
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REVISED: -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**DETECTOR LOOP REPLACEMENT
US 12/20 (95TH ST.) AT CRAWFORD AVE.**

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
029	3239 (B-X&C) Z-RS-1	COOK	31	36
CONTRACT NO. 60096				
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	258	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.

FILE NAME: c:\projects\1113488\sh_rdv.dgn

USER NAME: wilgreendp
 PLOT SCALE: 100.0000 / IN.
 PLOT DATE: 2/27/2008

DESIGNED -
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 DATE -

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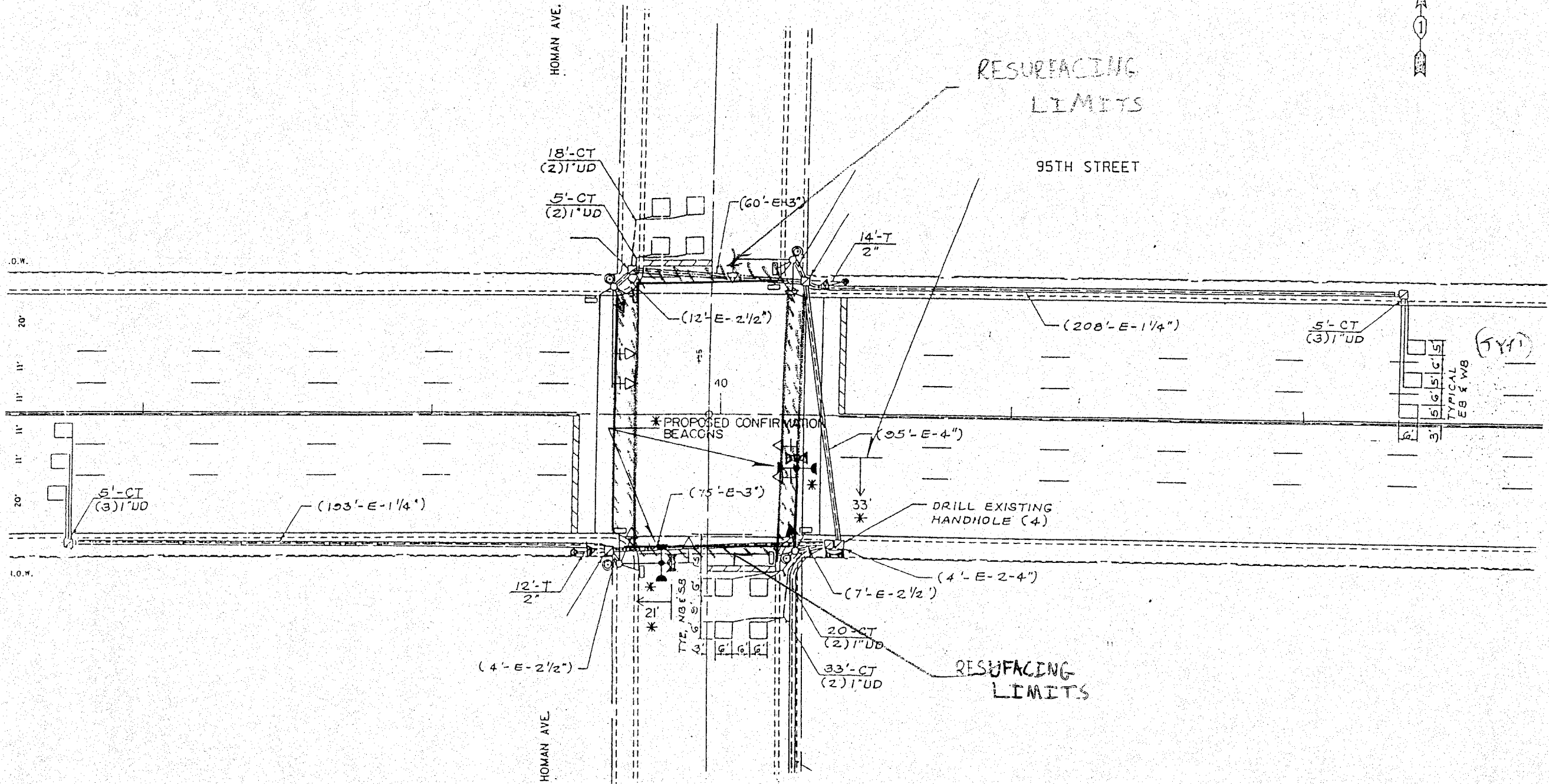
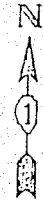
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**DETECTOR LOOP REPLACEMENT
US 1220 (95TH ST.) AT MILLARD AVE.**

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
029	3239 (B-X&C) 2-RS-1	COOK	54	37

CONTRACT NO. 60096



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

CODE NO.	QUANTITY	UNIT	ITEM
88600600	258	FOOT	DETECTOR LOOP REPLACEMENT

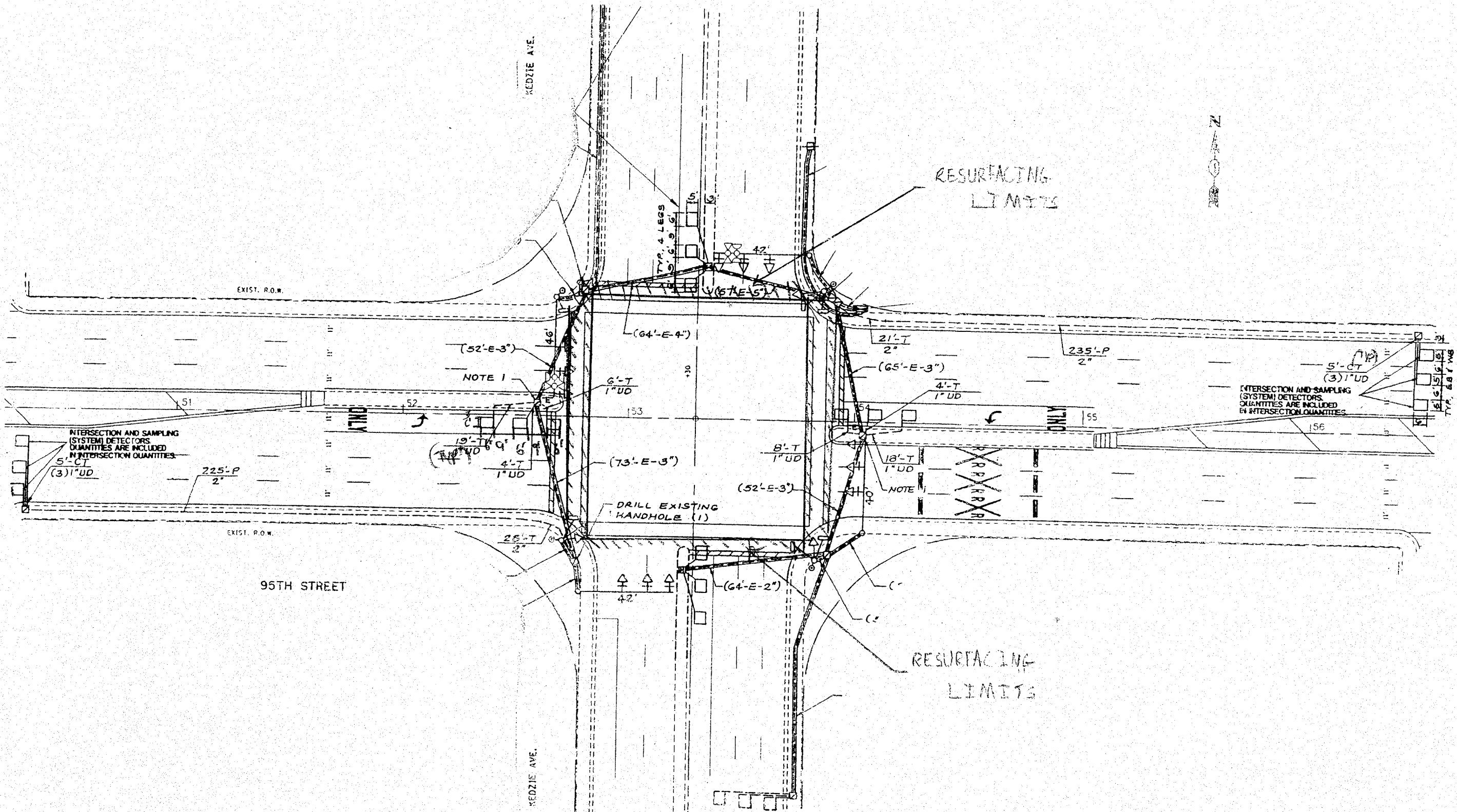
NOTE:
THIS PLAN IS FOR THE PURPOSE OF REPLACING THE DETECTOR LOOPS ONLY. ALL OTHER INFORMATION SHOWN IS NOT RELATED AND WILL BE DISREGARDED.

FILE NAME c:\projects\113488\sh-dwg.dgn	USER NAME wilgreendp	DESIGNED -	REVISED -
PLOT SCALE 100.0000 / IN.	CHECKED -	DRAWN -	REVISED -
PLOT DATE 2/27/2008	DATE -	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**DETECTOR LOOP REPLACEMENT
US 1220 (95TH ST.) AT HOMAN AVE.**

F.A.P. RTE. 029	SECTION 3239 (B-X&C) Z-RS-1	COUNTY COOK	TOTAL SHEETS 54	SHEET NO. 38
SCALE:				CONTRACT NO. 60096

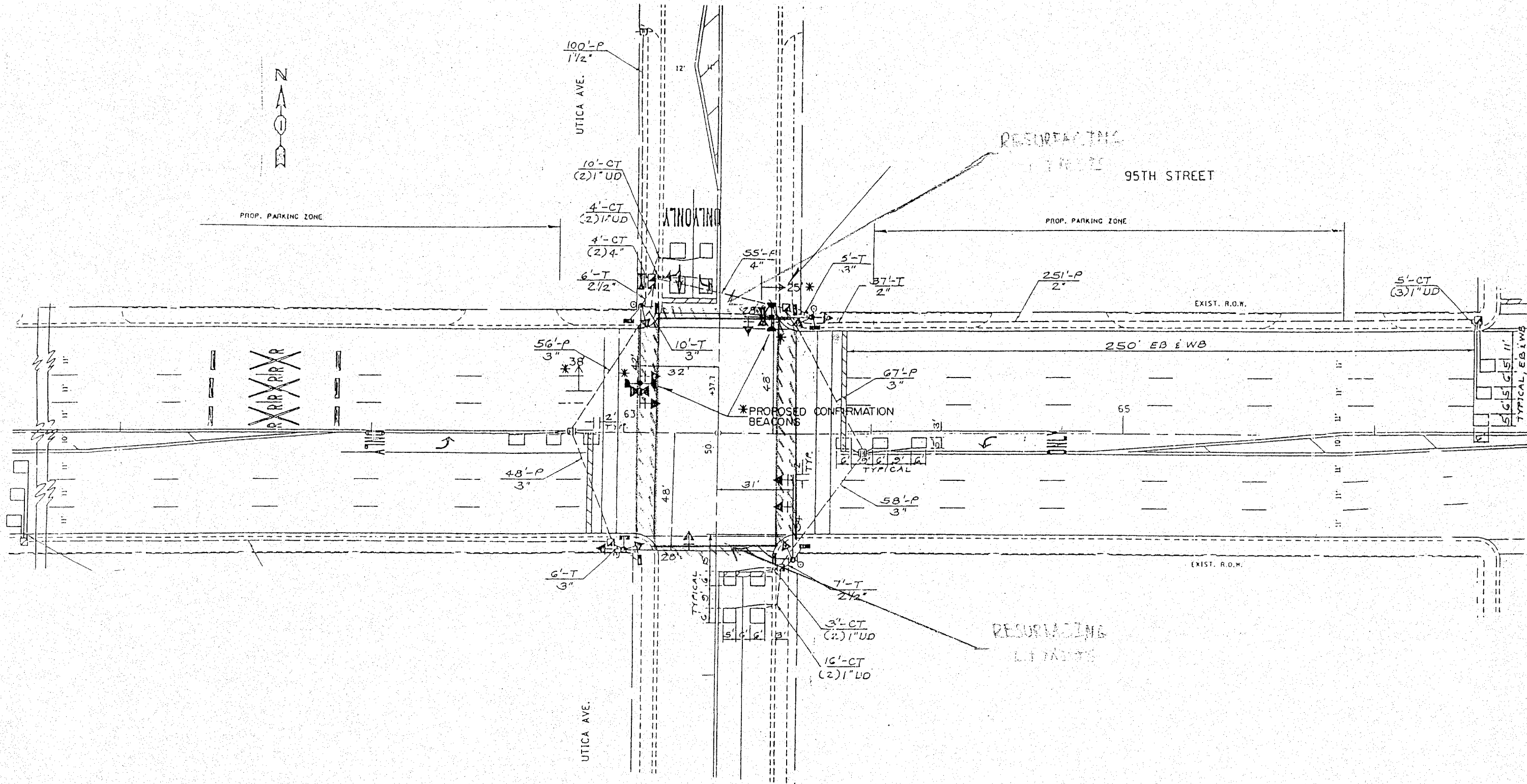


**REPLACE ALL DETECTOR LOOPS AS SHOWN
(WITHIN THE RESURFACING LIMITS)**

CODE NO.	QUANTITY	UNIT	ITEM
88600600	378	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.

FILE NAME c:\projects\113488\113488.dwg	USER NAME wilgreenp	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DETECTOR LOOP REPLACEMENT US 1220 (95TH ST.) AT KEDZIE AVE.	F.A.P. RTE. 029	SECTION 3239 (B-X&C) Z-RS-1	COUNTY COOK	TOTAL SHEETS 54	SHEET NO. 39	
PLOT SCALE 100.0000 / IN.	CHECKED -	REVISED -	SCALE:			SHEET NO. OF SHEETS	STA. TO STA.	CONTRACT NO. 60096			
PLOT DATE 2/27/2008	DATE -	REVISED -									



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

CODE NO.	QUANTITY	UNIT	ITEM
88600600	434	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.

FILE NAME: c:\projects\0113408\sh-dwg.dgn

USER NAME: wilgrendp
 PLOT SCALE: 100.0000 / IN.
 PLOT DATE: 2/27/2008

DESIGNED	REVISD
DRAWN	REVISD
CHECKED	REVISD
DATE	REVISD

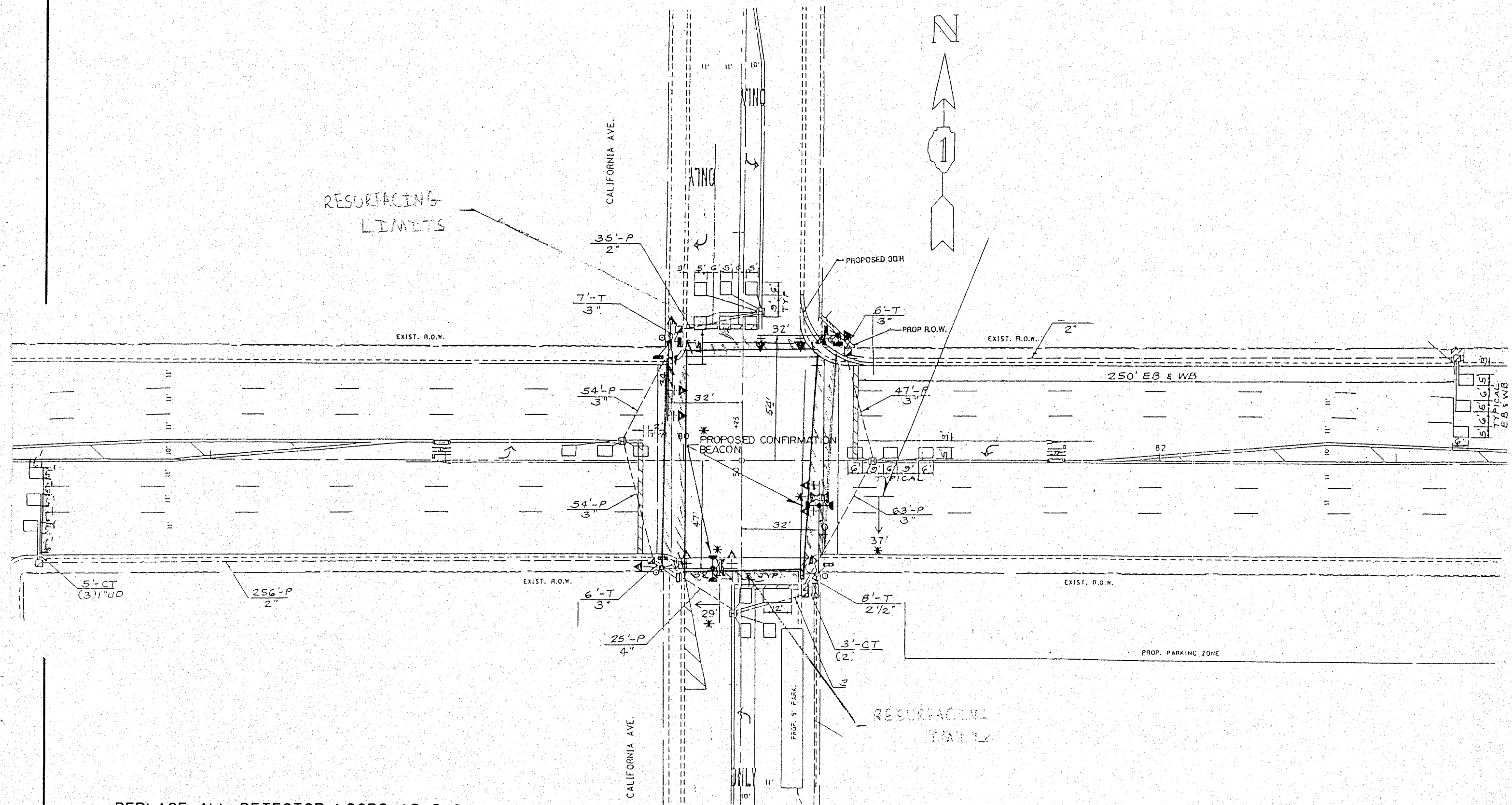
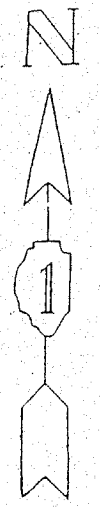
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DETECTOR LOOP REPLACEMENT
US 1220 (95TH ST.) AT UTICA AVE.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
029	3239 (B-X&C) Z-RS-1	COOK	54	40

CONTRACT NO. 60096

RESURFACING
LIMITS



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

CODE NO.	QUANTITY	UNIT	ITEM
88600600	375	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.

FILE NAME:
C:\Users\jg\OneDrive\Documents\88600600.dwg

USER NAME: SMITHKL
PLOT SCALE: 1/8" = 1'-0"

DESIGNED -
DRAWN -
CHECKED -

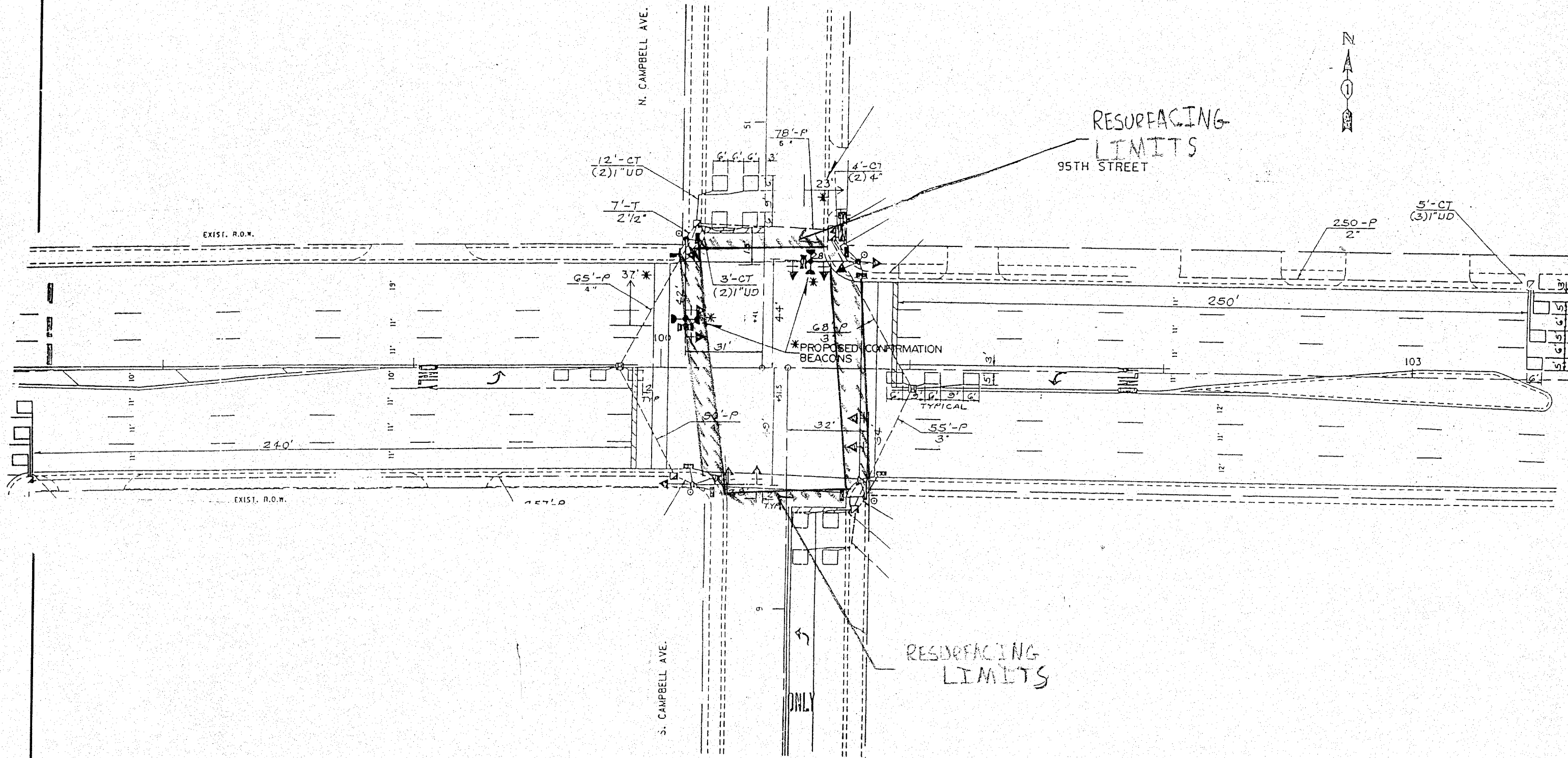
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DETECTOR LOOP REPLACEMENT
US 1220 (95TH ST.) AT CALIFORNIA AVE.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
029	3239 (B-X&C) Z-RS-1	COOK	54	41

CONTRACT NO. 60096



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

CODE NO.	QUANTITY	UNIT	ITEM
88600600	366	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.

FILE NAME:
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USER NAME: wilgreenp
 PLOT SCALE: 100.0000 / IN.
 PLOT DATE: 2/27/2008

DESIGNED -	REVISED -
DRAWN -	REVISED -
CHECKED -	REVISED -
DATE -	REVISED -

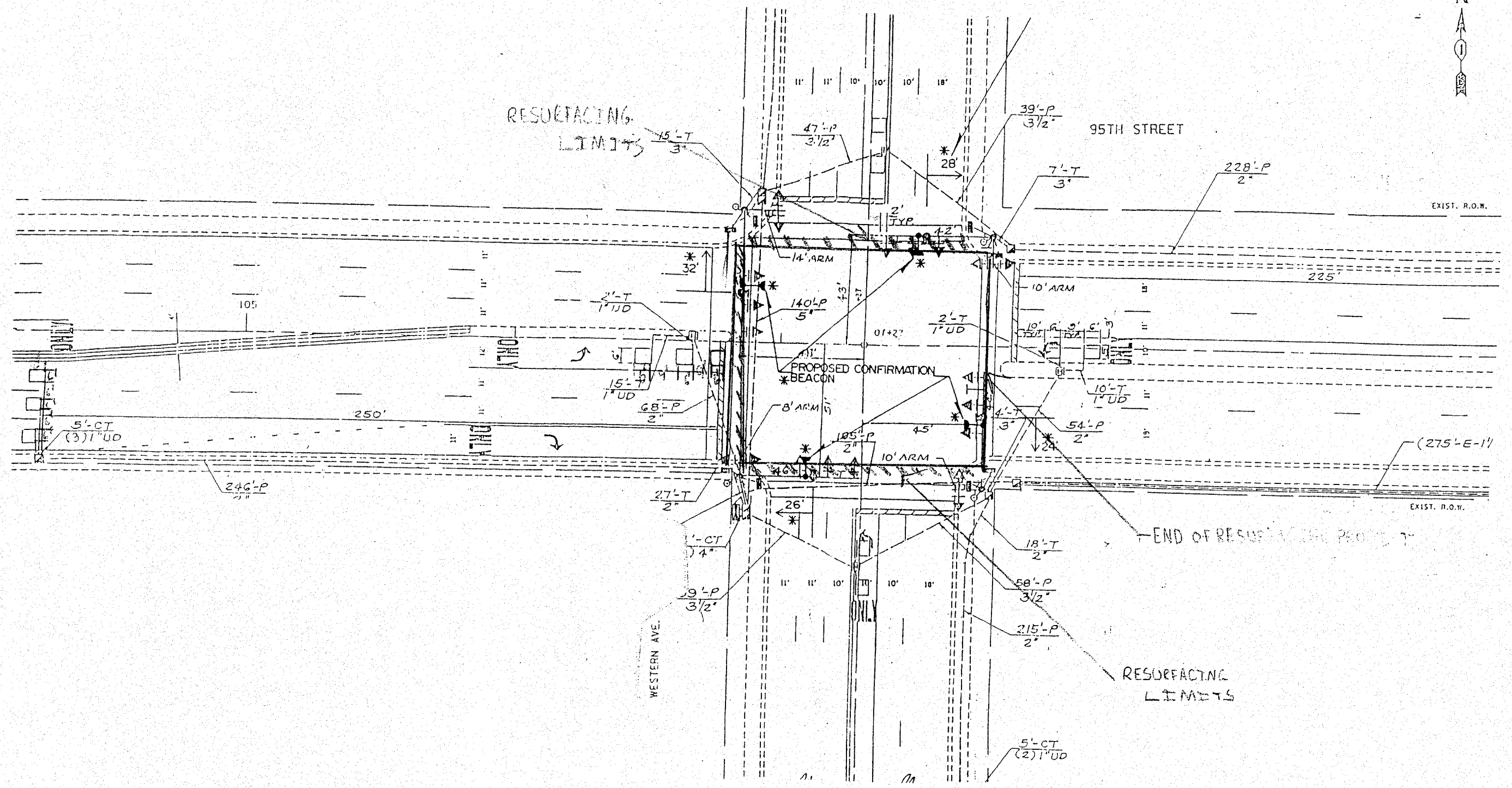
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**DETECTOR LOOP REPLACEMENT
US 12/20 (95TH ST.) AT CAMPBELL AVE.**

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
029	3239 (B-X&C) Z-RS-1	COOK	54	42

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

FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT CONTRACT NO. 60096



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

CODE NO.	QUANTITY	UNIT	ITEM
88600600	198	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.

FILE NAME :
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USER NAME : wilgreendp
DESIGNED :
DRAWN :
PLOT SCALE : 100.0000 / IN.
CHECKED :
PLOT DATE : 2/27/2008
DATE :

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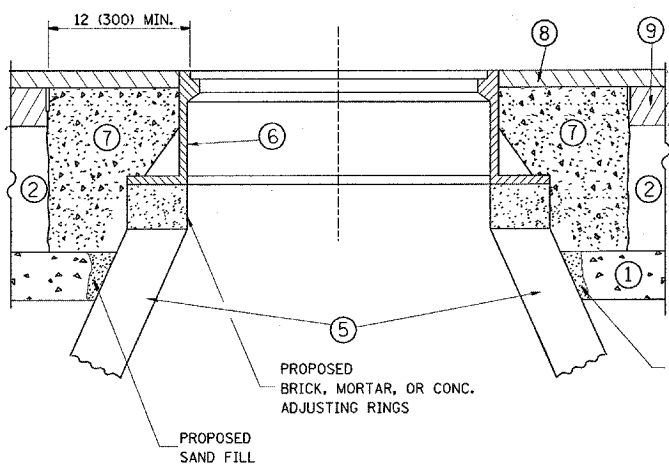
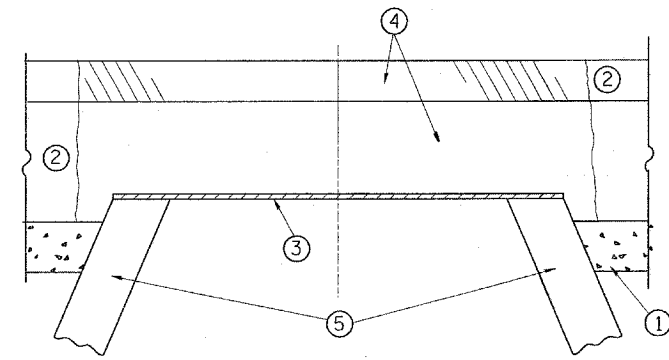
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DETECTOR LOOP REPLACEMENT
US 1220 (95TH ST.) AT WESTERN AVE.

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
029	3239 (B-X&C) Z-RS-1	COOK	54	43

CONTRACT NO. 60096
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT



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 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.

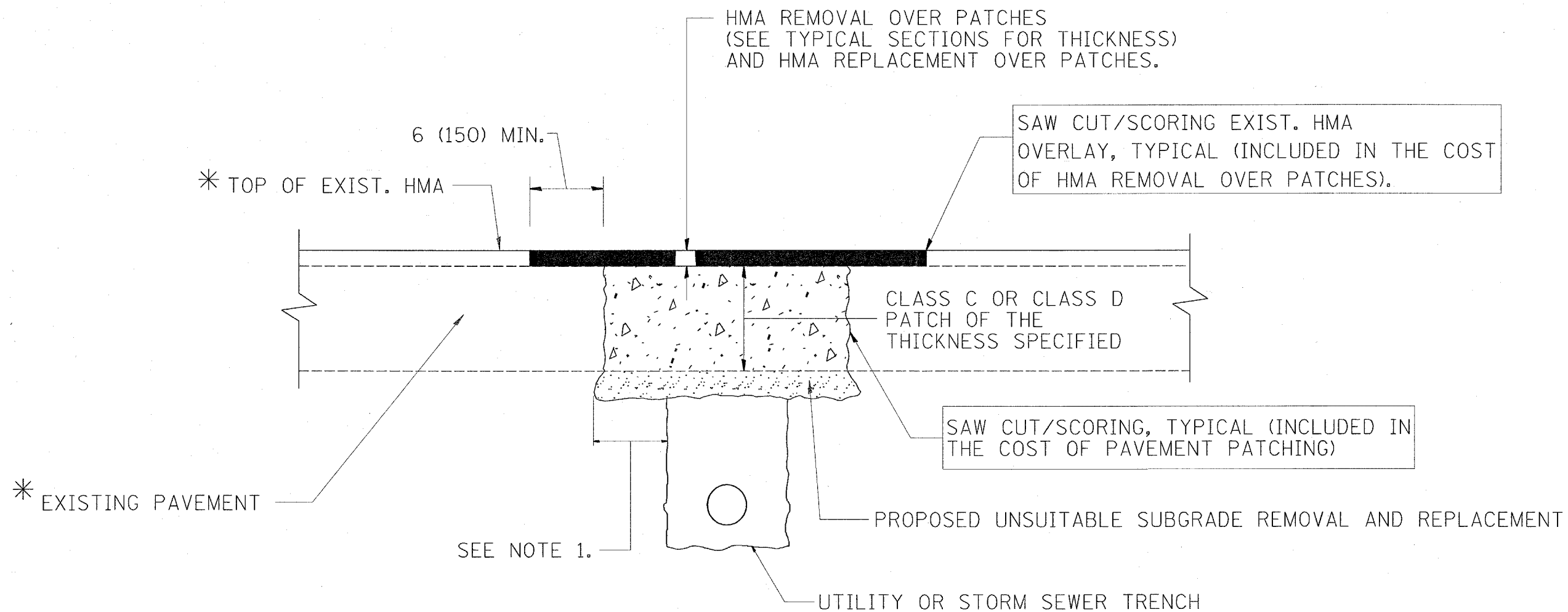
BASIS OF PAYMENT: THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER EACH FOR "FRAMES AND LIDS TO BE ADJUSTED, SPECIAL"

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 =	USER NAME = wlgreendp	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. 029	SECTION 3239 (B-X&C) Z-RS-1	COUNTY COOK	TOTAL SHEETS 54	SHEET NO. 43A	
\\dist\ntfs2\users\wlgreendp\Desktop\9874 ST. DETAILS\bd88.dgn		DRAWN -	REVISED - A. ABBAS 03-21-97		SCALE: NONE	SHEET NO. 9 OF 18 SHEETS		BD600-03 (BD-8)			
PLOT SCALE = 49.9999 / / IN.		CHECKED -	REVISED - R. WIEDEMAN 05-14-04		STA.	TO STA.					
PLOT DATE = 2/4/2008		DATE - 10-25-94	REVISED - R. BORO 01-01-07								CONTRACT NO. 60D96
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT											



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.

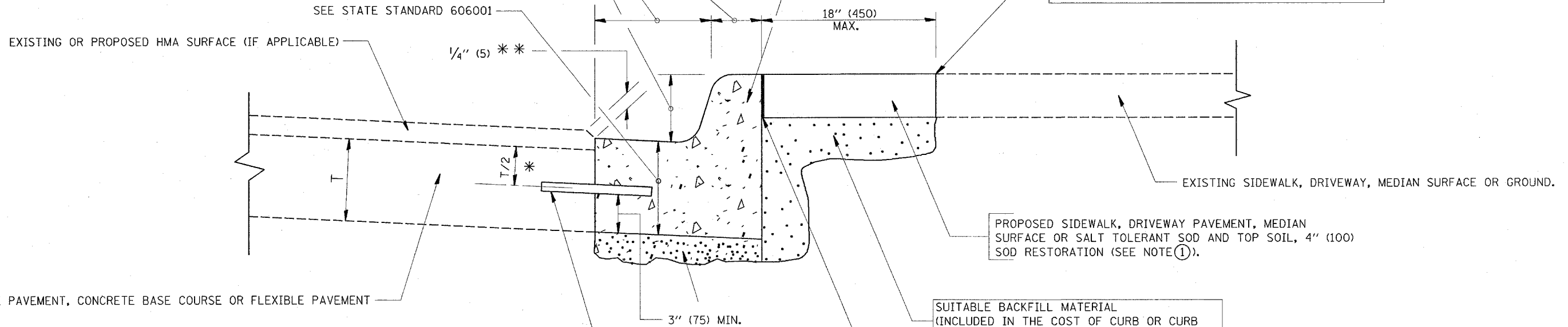
ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

FILE NAME =	USER NAME = wilgreendp	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.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
\\dist\ntfs2\users\wilgreendp\Desktop\98TH ST. DETAILS\bd22.dgn	DRAWN -	REVISED - A. ABBAS 04-27-98	REVISED - R. BORO 01-01-07					029	3239 (B-X&C) Z-RS-1	COOK	54	44
PLOT SCALE = 50.000' / IN.	CHECKED -	REVISED - R. BORO 01-01-07	REVISED - R. BORO 09-04-07		BD400-04 (BD-22)			CONTRACT NO. 60D96				
PLOT DATE = 2/4/2008	DATE - 10-25-94	REVISED - R. BORO 09-04-07	SCALE: NONE		SHEET NO. 10 OF 18 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.



EXISTING CONCRETE PAVEMENT, CONCRETE BASE COURSE OR FLEXIBLE PAVEMENT

* 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.

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).

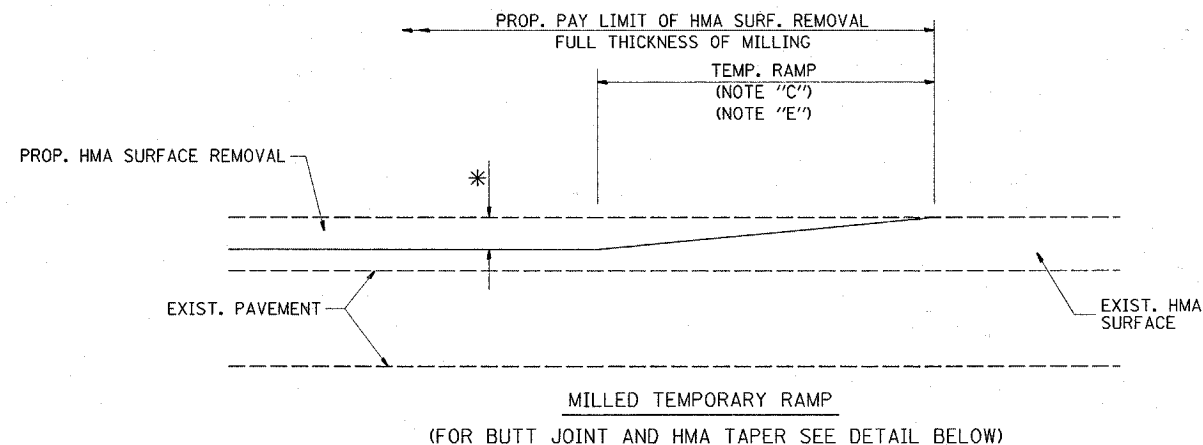
BASIS OF PAYMENT:

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".

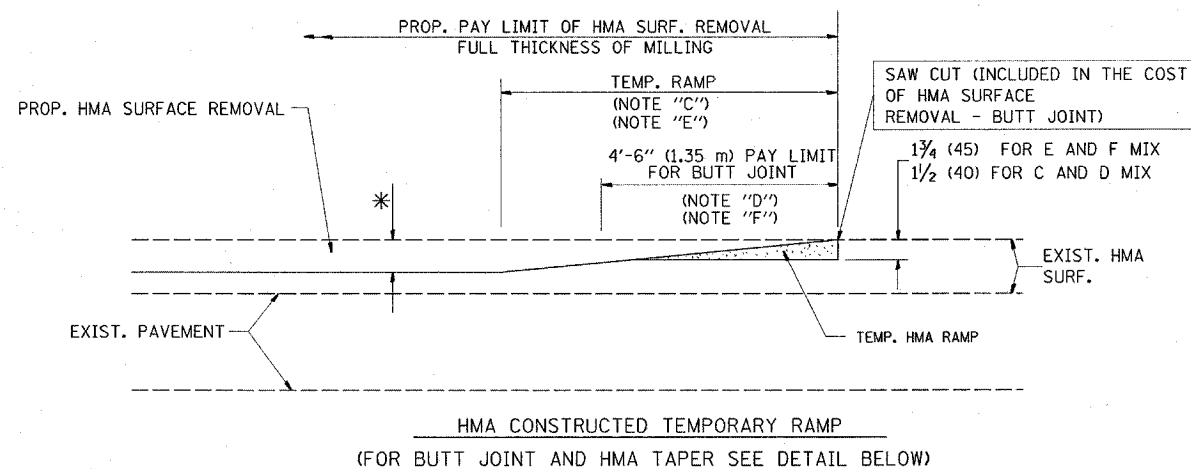
CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT

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

FILE NAME =	USER NAME = wilgreendp	DESIGNED - A. HOUSEH	REVISED - R. SHAH 10-03-96	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
\\dstlntfs2\users\wilgreendp\Desktop\99TH ST.DETAILS\bd24.dgn	DRAWN -	REVISED - A. ABBAS 03-21-97	REVISED - M. GOMEZ 01-22-01			029	3239 (B-X&C) Z-RS-1	COOK	54	45	
PLOT SCALE = 50.000 / IN.	CHECKED -	REVISED - M. GOMEZ 01-22-01	REVISED - R. BORO 01-01-07			BD600-06 (BD-24)		CONTRACT NO. 60D96			
PLOT DATE = 2/4/2008	DATE - 03-11-94	REVISED - R. BORO 01-01-07	SCALE: NONE			SHEET NO. 11 OF 18 SHEETS	STA.	TO STA.	FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT		

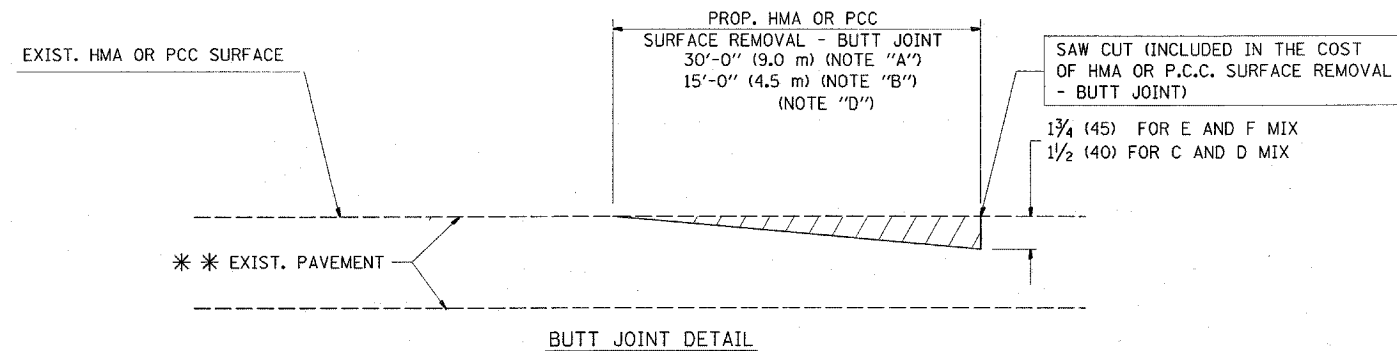


OPTION 1

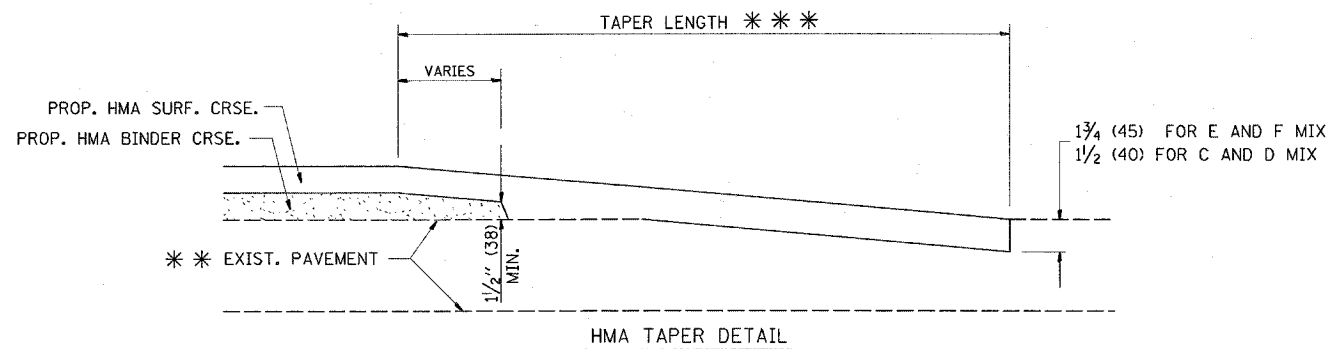


OPTION 2

TYPICAL TEMPORARY RAMP



BUTT JOINT DETAIL



HMA TAPER DETAIL

TYPICAL BUTT JOINT AND HMA TAPER FOR RESURFACING ONLY

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

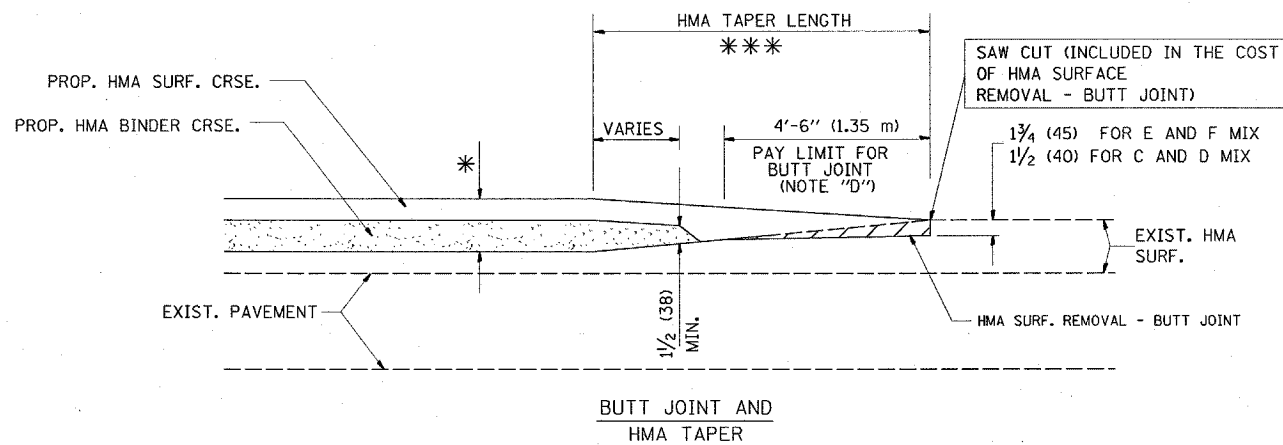
NOTES

- A: MAINLINE ROADWAYS AND MAJOR SIDE ROADS.
 - B: MINOR SIDE ROADS.
 - C: THE TEMP. RAMP SHALL BE CONSTRUCTED IMMEDIATELY UPON REMOVAL OF THE EXISTING HMA SURFACE.
 - D: THE BUTT JOINT SHALL BE CONSTRUCTED IMMEDIATELY PRIOR TO PLACING THE PROPOSED HMA COURSES.
 - E: TAPER THE TEMP. RAMP AT A RATE OF 3'-0" (900 mm) PER 1 INCH (25 mm) OF MILLING THICKNESS.
 - F: INSTALLATION AND REMOVAL OF THE 4'-6" (1.35 m) TEMP. RAMP IS INCLUDED IN COST OF HMA SURFACE REMOVAL - BUTT JOINT
 - G: SEE ARTICLE 406.08 AND 406.14 OF THE STANDARD SPECIFICATIONS FOR "HMA AND/OR PCC SURFACE REMOVAL, BUTT JOINT".
- * SEE TYPICAL SECTIONS FOR MILLING THICKNESS.
- *** 20'-0" (6.1 m) PER 1 (25) RESURFACING (NOTE "A")
 10'-0" (3.0 m) PER 1 (25) RESURFACING (NOTE "B")

BASIS OF PAYMENT:

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

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



BUTT JOINT AND HMA TAPER

TYPICAL BUTT JOINT AND HMA TAPER FOR MILLING AND RESURFACING

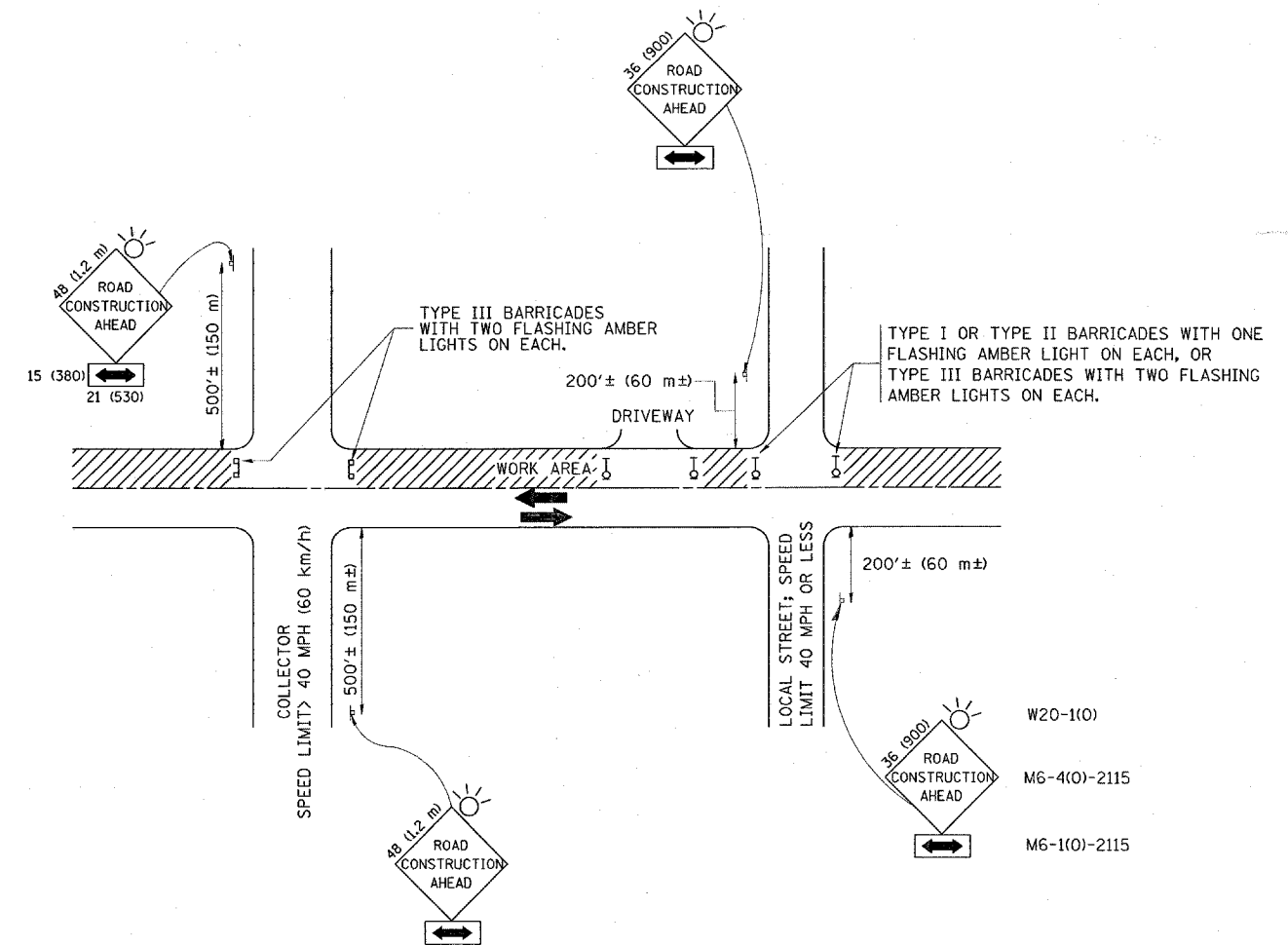
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\\dist\inf\2\wgr\wilgrandp\Desktop\ST...	FILE ST. DETAIL 9\bd32.dgn	DRAWN -	REVISED - A. ABBAS 03-21-97
	PLOT SCALE = 41.9999 1/1 IN.	CHECKED -	REVISED - M. GOMEZ 04-06-01
	PLOT DATE = 2/4/2008	DATE - 06-13-90	REVISED - R. BORO 01-01-07

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**BUTT JOINT AND
HMA TAPER DETAILS**

SCALE: NONE SHEET NO. 12 OF 18 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
029	3239 (B-X&C) Z-RS-1	COOK	54	46
BD400-05 BD32			CONTRACT NO. 60D96	
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
 1. SIDE ROAD WITH A SPEED LIMIT OF 40 MPH (60 km/h) OR LESS AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
 - a) ONE ROAD CONSTRUCTION AHEAD SIGN 36 x 36 (900x900) WITH A FLASHER 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.

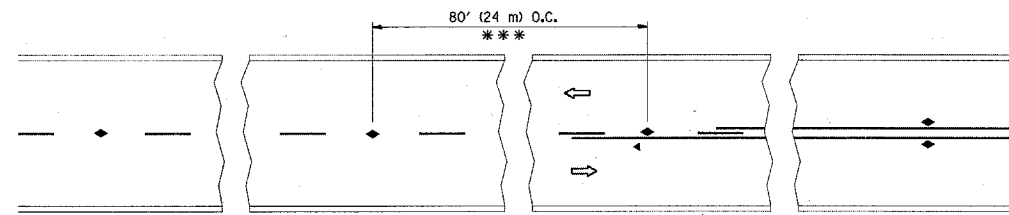
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\\distintf2\users\wilgreendp\Desktop\95	TH ST. DETAILS\ts10.dgn	DRAWN -	REVISED - A. HOUSEH 03-06-96
	PLOT SCALE = 50,000 1/4 IN.	CHECKED -	REVISED - A. HOUSEH 10-15-96
	PLOT DATE = 2/4/2008	DATE - 06-89	REVISED - T. RAMMACHER 01-06-00

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

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

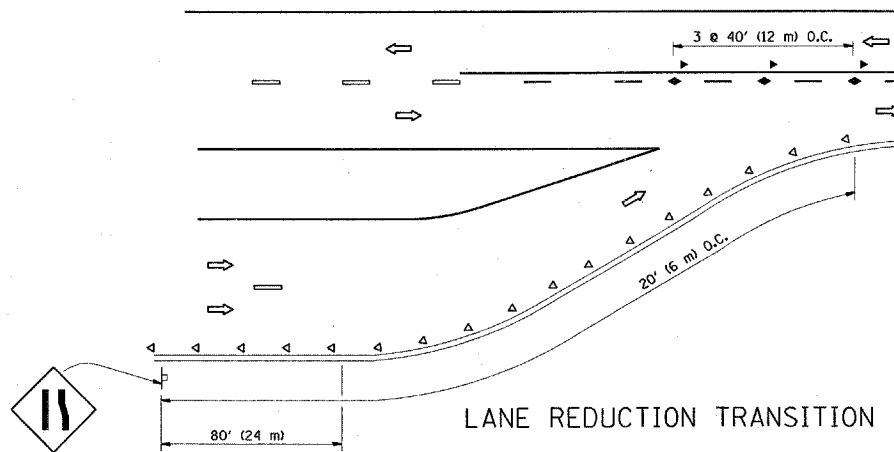
SCALE: NONE SHEET NO. 13 OF 18 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
029	3239 (B-X&C) Z-RS-1	COOK	54	47
TC-10			CONTRACT NO. 60D96	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

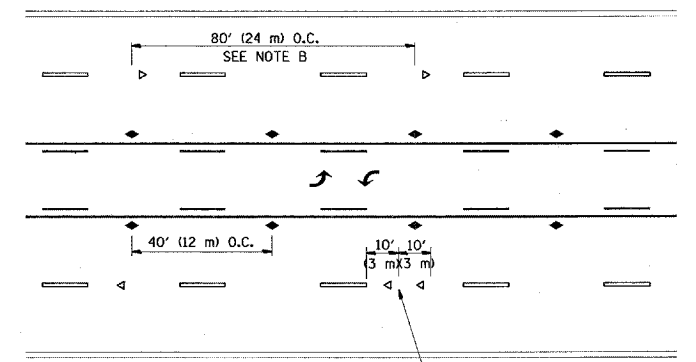


*** REDUCE TO 40' (12 m) O.C. ON CURVES WITH POSTED OR ADVISORY SPEED 45 M.P.H. (70 km/h) OR LESS.

TWO-LANE/TWO-WAY

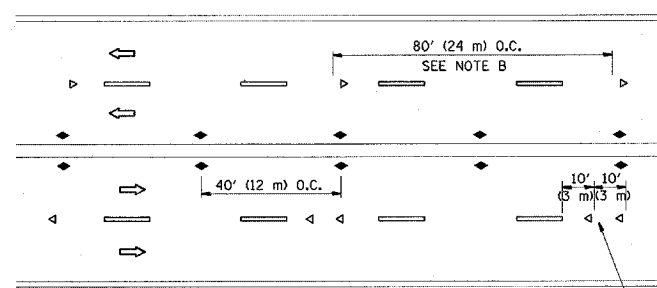


LANE REDUCTION TRANSITION



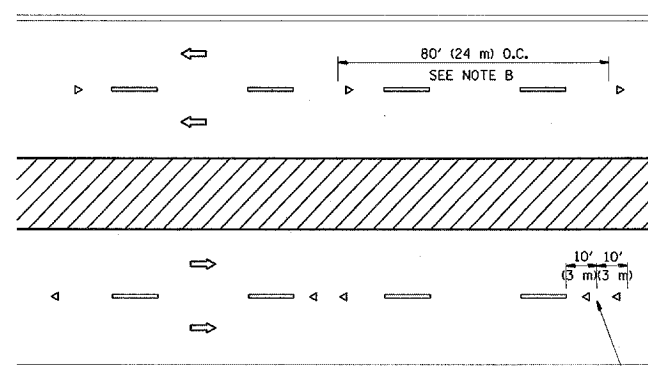
SEE NOTE A

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.

LANE MARKER NOTES

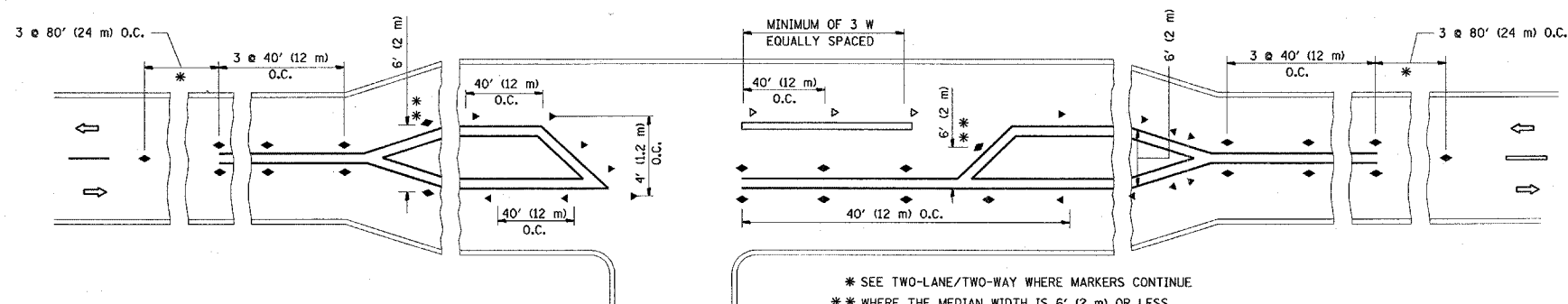
- B. REDUCE TO 40' (12 m) O.C. ON CURVES WHERE ADVISORY SPEEDS ARE 10 M.P.H. (20 km/h) LOWER THAN POSTED SPEEDS.
- A. USE DOUBLE LANE LINE MARKERS SPACED AS SHOWN.

SYMBOLS

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

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.

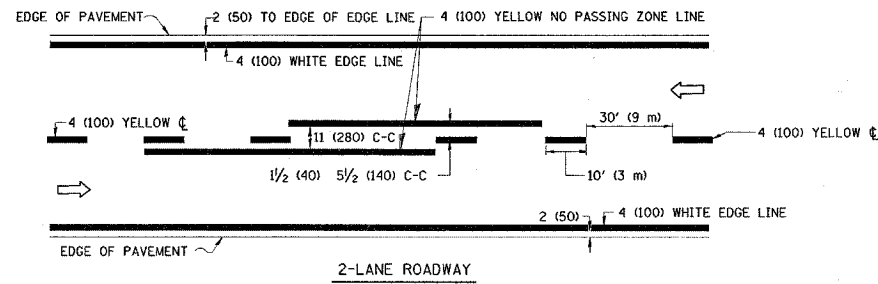


* SEE TWO-LANE/TWO-WAY WHERE MARKERS CONTINUE
 ** WHERE THE MEDIAN WIDTH IS 6' (2 m) OR LESS USE TWO-WAY MARKERS.

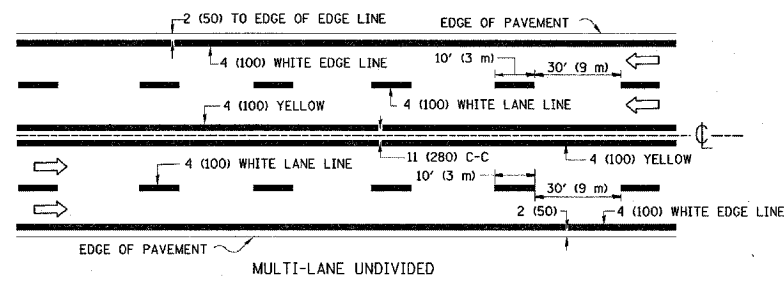
LEFT TURN

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

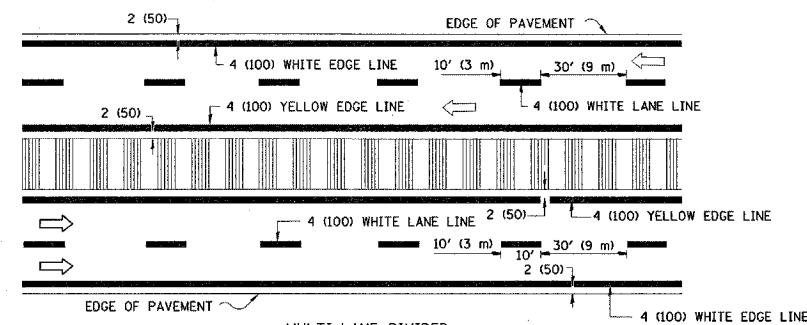
FILE NAME = \\distinfo2\users\wilgreendp\Desktop\98TH ST. DETAILS\tell.dgn	USER NAME = wilgreendp	DESIGNED -	REVISED - T. RAMMACHER 09-19-94	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT)		F.A.P. RTE. = 029	SECTION = 3238 (B-X&C) Z-RS-1	COUNTY = COOK	TOTAL SHEETS = 54	SHEET NO. = 48
	PLOT SCALE = 50,000 / IN.	CHECKED -	REVISED - T. RAMMACHER 03-12-99				TC-11	CONTRACT NO. 60D96			
PLOT DATE = 2/4/2009	DATE -	REVISED -	REVISED - T. RAMMACHER 01-06-00	SCALE: NONE	SHEET NO. 14 OF 18 SHEETS	STA. TO STA.	FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



2-LANE ROADWAY



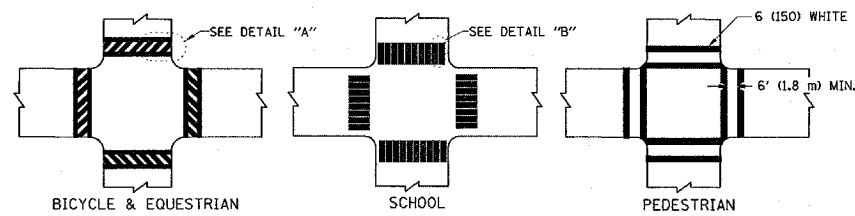
MULTI-LANE UNDIVIDED



MULTI-LANE DIVIDED WITH MOUNTABLE MEDIAN

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

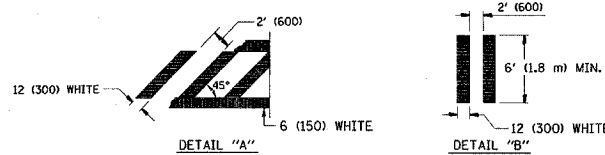
TYPICAL LANE AND EDGE LINE MARKING



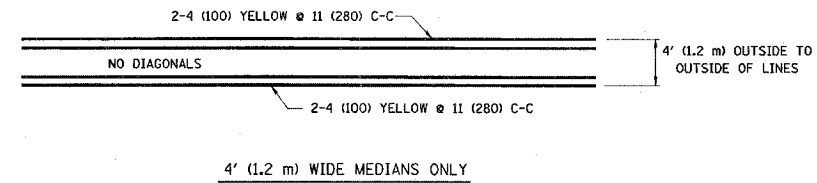
BICYCLE & EQUESTRIAN

SCHOOL

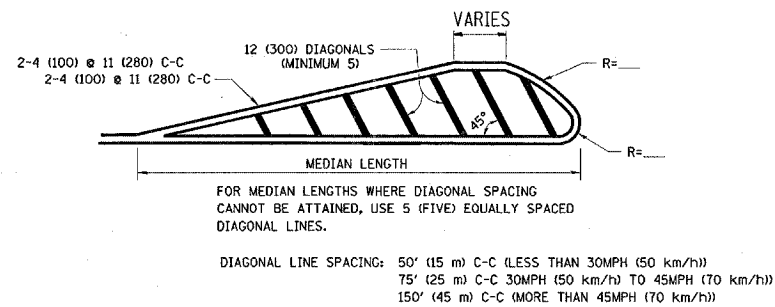
PEDESTRIAN



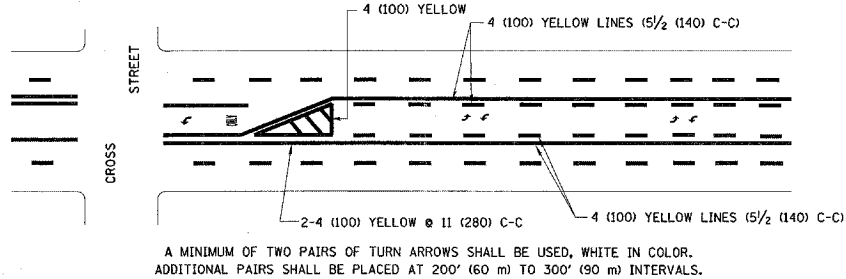
TYPICAL CROSSWALK MARKING



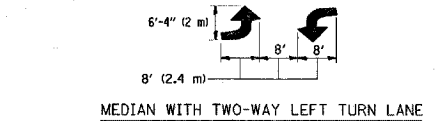
4' (1.2 m) WIDE MEDIANS ONLY



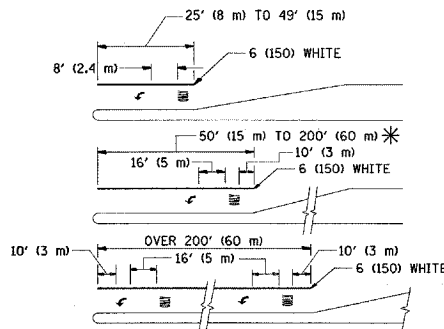
MEDIANS OVER 4' (1.2 m) WIDE



TYPICAL PAINTED MEDIAN MARKING

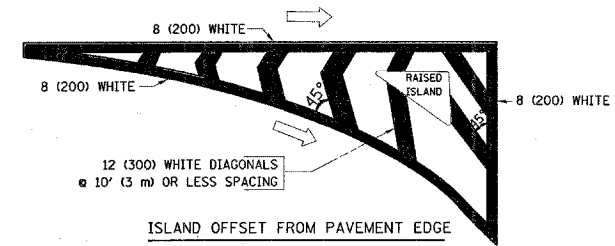


MEDIAN WITH TWO-WAY LEFT TURN LANE

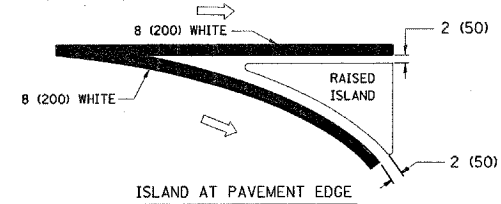


TYPICAL LEFT (OR RIGHT) TURN LANE

FULL SIZE LETTERS 8' (2.4 m) AND ARROWS SHALL BE USED.
 AREA = 15.6 SQ. FT. (1.5 m²) ONLY AREA = 20.8 SQ. FT. (1.9 m²)
 * TURN LANES IN EXCESS OF 400' (120 m) IN LENGTH MAY HAVE AN ADDITIONAL SET OF ARROW - "ONLY" INSTALLED MIDWAY BETWEEN THE OTHER TWO SETS OF ARROW - "ONLY".



ISLAND OFFSET FROM PAVEMENT EDGE



ISLAND AT PAVEMENT EDGE

TYPICAL ISLAND MARKING

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

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

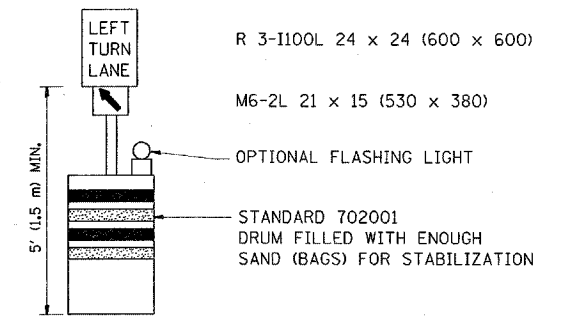
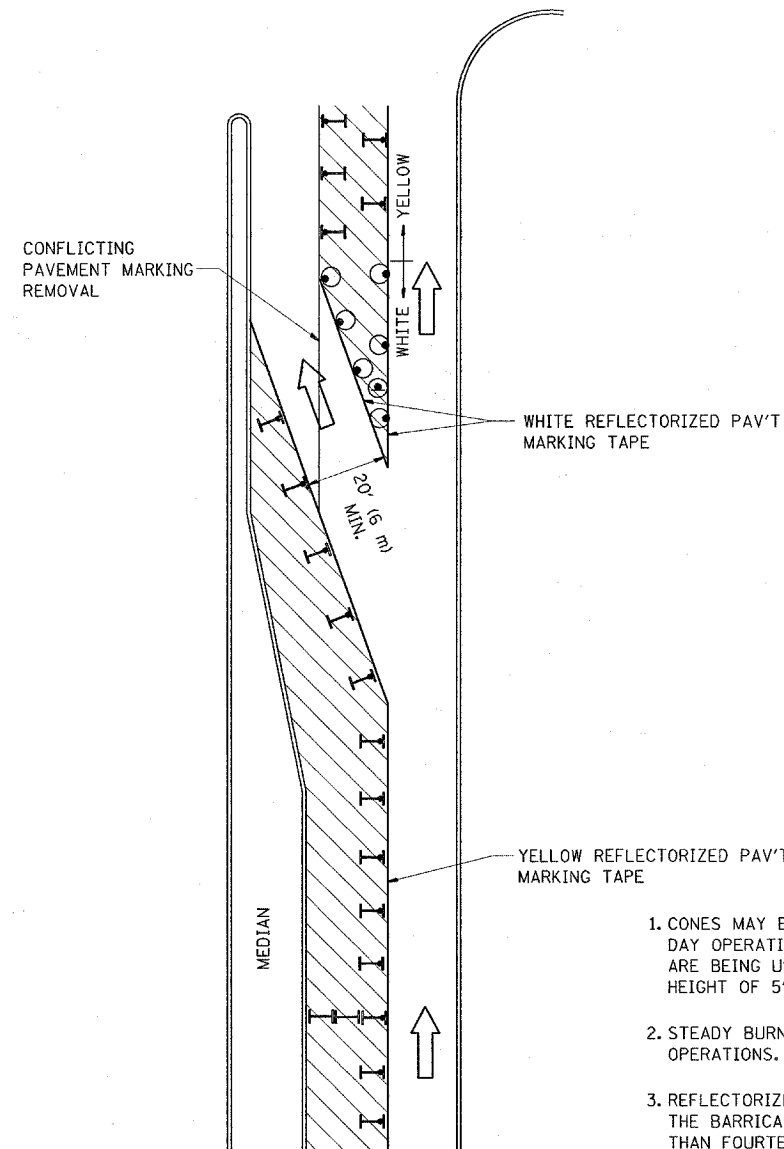
All dimensions are in inches (millimeters) unless otherwise shown.

FILE NAME =	USER NAME = wlgreendp	DESIGNED - EVERS	REVISED - T. RAMMACHER 10-27-94
\\dist\ntfa2\users\wlgreendp\Desktop\98TH ST. DETAILS\to13.dgn		DRAWN -	REVISED - A. HOUSEH 10-09-96
PLOT SCALE = 50.0000' / IN.		CHECKED -	REVISED - A. HOUSEH 10-17-96
PLOT DATE = 2/4/2008		DATE - 03-19-90	REVISED - T. RAMMACHER 01-06-00

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE
TYPICAL PAVEMENT MARKINGS

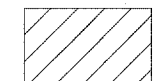





SCALE: NONE	SHEET NO. 15 OF 18 SHEETS	STA.	TO STA.	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
				029	3238 (B-X&C) Z-RS-1	COOK	54	49
					TC-13		CONTRACT NO. 60D96	
				FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



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.

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

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

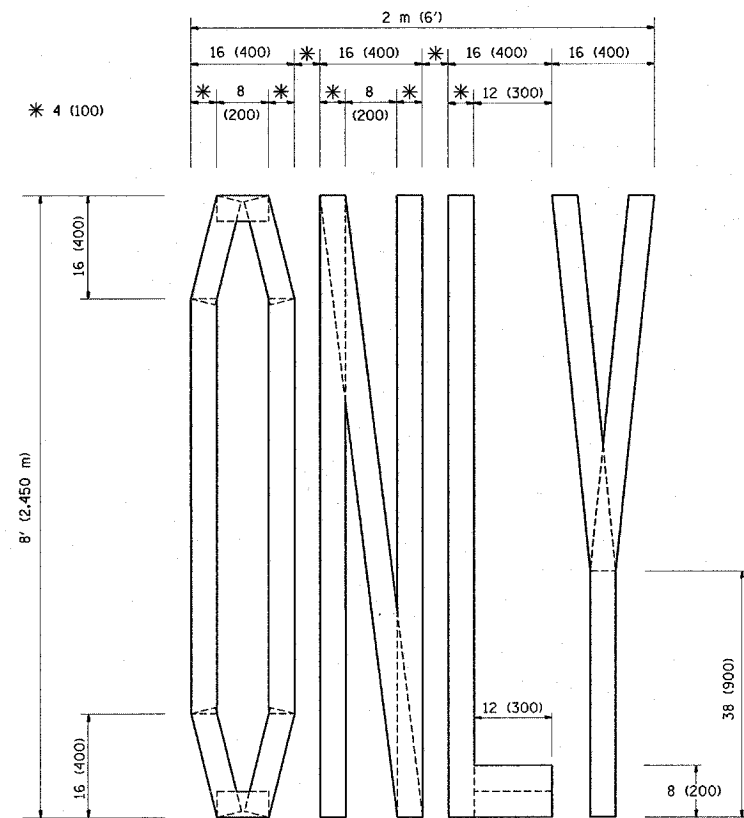
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\\dist\inf\2\users\wlgreendp\Desktop\98	TH ST.DETAILS\td14.dgn	DRAWN -	REVISED - A. HOUSEH 11-07-95
	PLOT SCALE = 49.9999 1/4 IN.	CHECKED -	REVISED - A. HOUSEH 10-12-96
	PLOT DATE = 2/4/2008	DATE -	REVISED -T. RAMMACHER 01-06-00

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

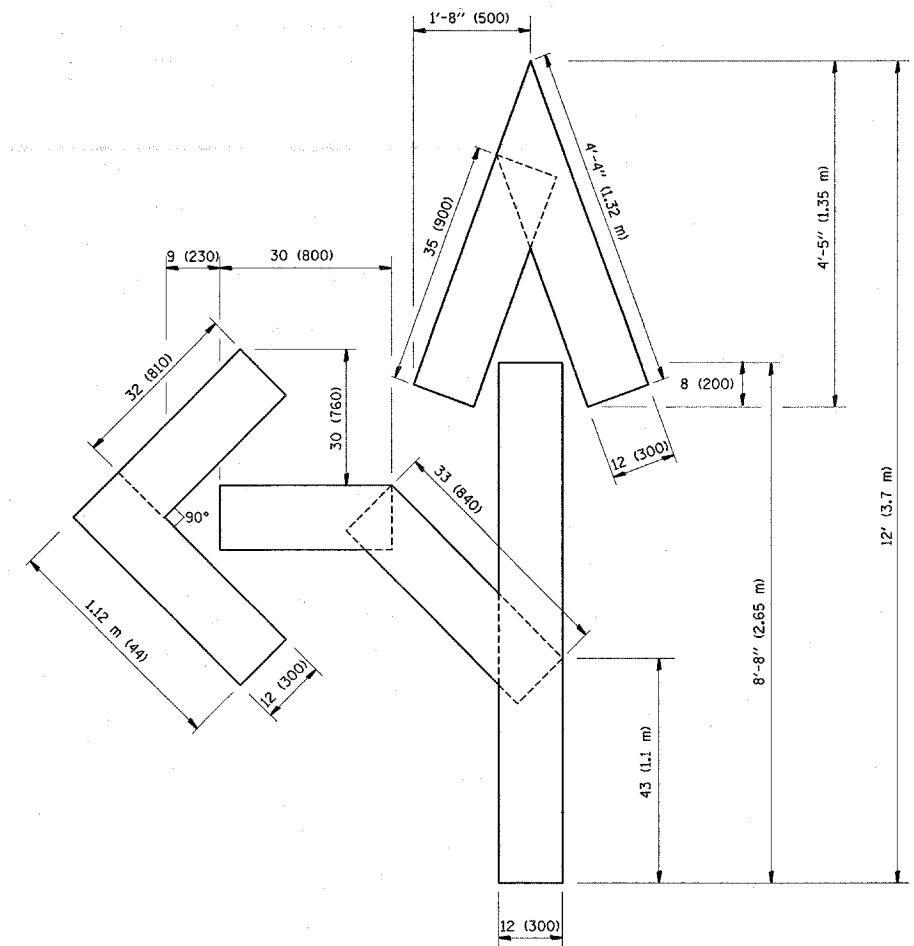
**TRAFFIC CONTROL AND PROTECTION AT TURN BAYS
(TO REMAIN OPEN TO TRAFFIC)**

SCALE: NONE SHEET NO. 16 OF 18 SHEETS STA. TO STA.

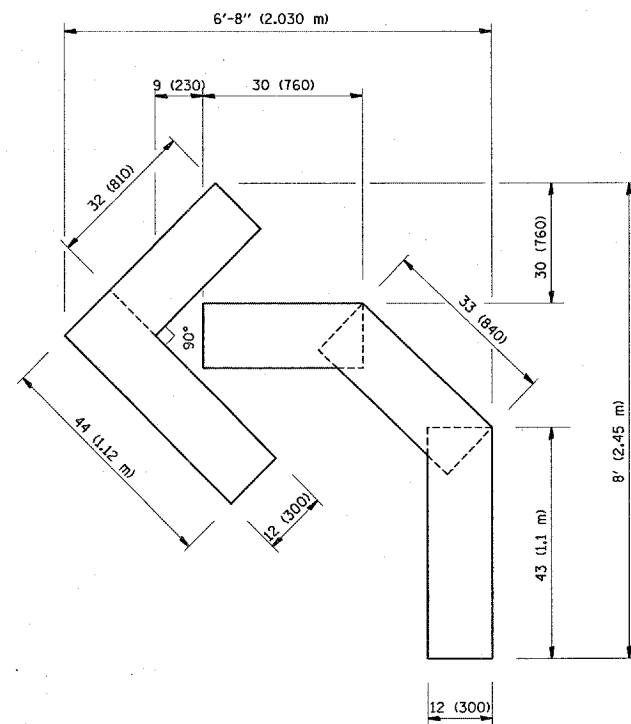
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
029	3239 (B-X&C) Z-RS-1	COOK	54	50
TC-14			CONTRACT NO. 60D96	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



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.

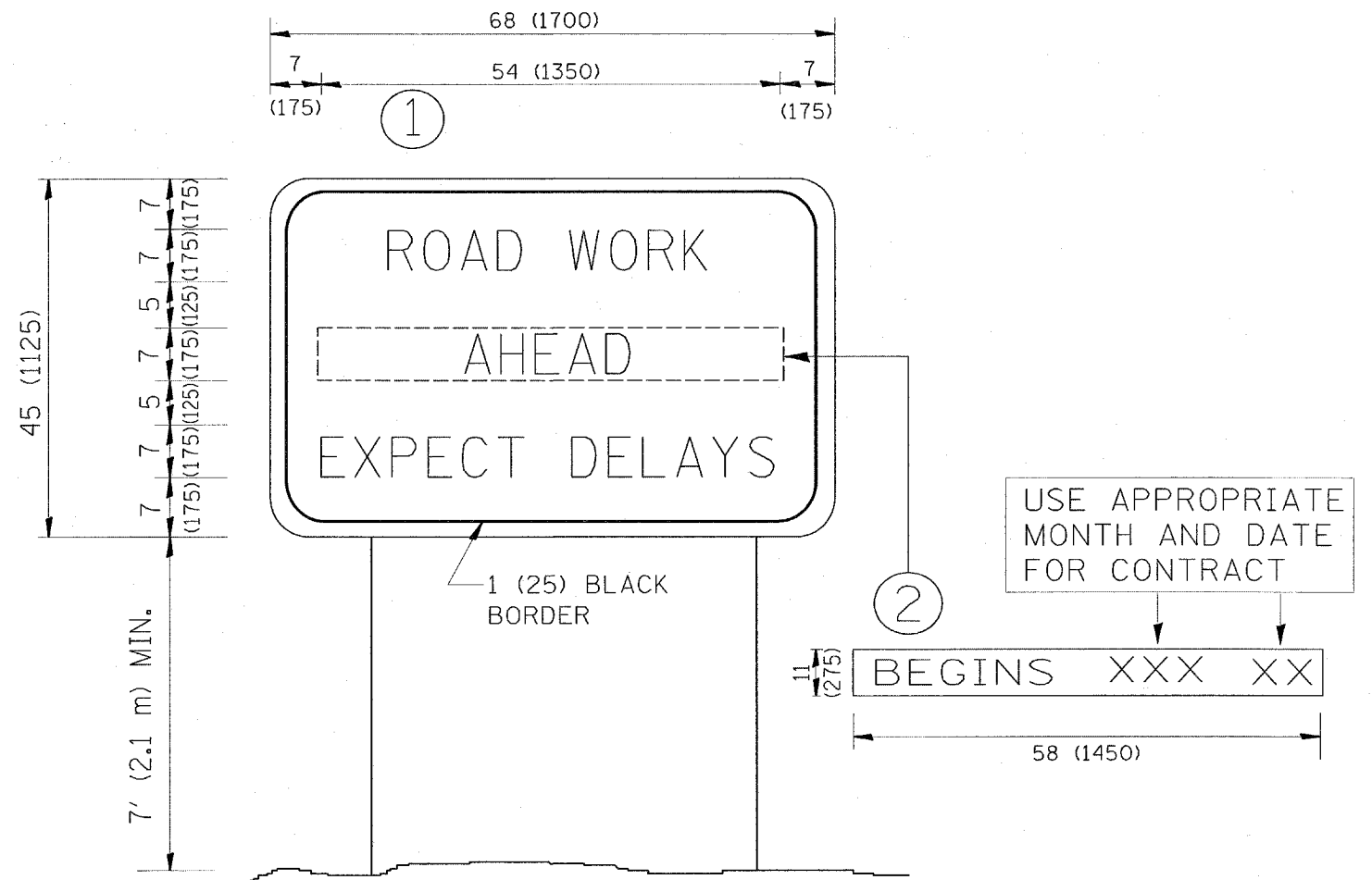
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	PLOT SCALE = 49.9999 / / IN.	CHECKED -	REVISED -T. RAMMACHER 03-02-98
	PLOT DATE = 2/4/2008	DATE - 09-18-94	REVISED -E. GOMEZ 08-28-00

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**PAVEMENT MARKING LETTERS AND SYMBOLS
 FOR TRAFFIC STAGING**

SCALE: NONE SHEET NO. 17 OF 18 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
029	3238 (B-X&C) Z-RS-1	COOK	54	51
TC-16			CONTRACT NO. 60D96	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



NOTES:

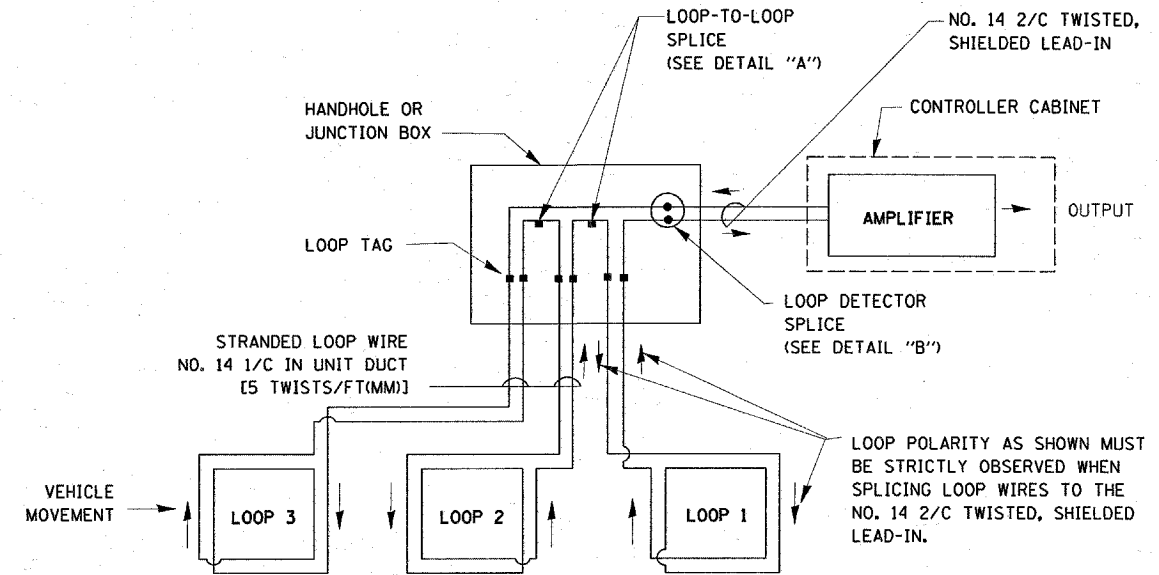
1. USE BLACK LETTERING ON ORANGE BACKGROUND.
2. ERECT SIGNS IN ADVANCE OF THE LOCATION FOR THE "ROAD CONSTRUCTION AHEAD" SIGN AT LOCATIONS AS DIRECTED BY THE ENGINEER.
3. ERECT SIGN ① WITH INSTALLED PANEL ② ONE WEEK PRIOR TO THE START OF CONSTRUCTION.
4. REMOVE PANEL ② SOON AFTER THE START OF CONSTRUCTION.
5. SEE SPECIAL PROVISION FOR "TEMPORARY INFORMATION SIGNING" FOR ADDITIONAL INFORMATION.
6. ONE SIGN ASSEMBLY EQUALS 25.70 SQ. FT. (2.3 SQ. M.)
7. SHALL BE PAID FOR AS TEMPORARY INFORMATION SIGNING.

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

FILE NAME =	USER NAME = wilgreendp	DESIGNED -	REVISED - R. MIRS 09-15-97	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	ARTERIAL ROAD INFORMATION SIGN			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
\\dist\inf2\users\wilgreendp\Desktop\99TH ST. DETAILS\to22.dgn		DRAWN -	REVISED - R. MIRS 12-11-97		SCALE: NONE	SHEET NO. 18 OF 18 SHEETS	STA.	TO STA.	029	3239 (B-X&C) Z-RS-1	COOK	54	52
PLOT SCALE = 50,000 1/ IN.		CHECKED -	REVISED - T. RAMMACHER 02-02-99					TC-22		CONTRACT NO. 60D96			
PLOT DATE = 2/4/2008		DATE -	REVISED - C. JUCIUS 01-31-07					FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT					

LOOP DETECTOR NOTES

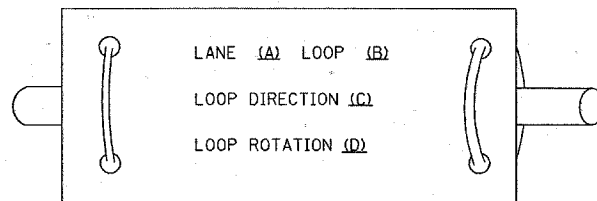
1. EACH PAIR OF LOOP WIRES SHALL BE PLACED IN A SEPARATE UNIT DUCT FROM THE EDGE OF PAVEMENT TO THE HANDHOLE. SPACING BETWEEN THE HOLES DRILLED IN THE PAVEMENT SHALL NOT BE LESS THAN 6" (150 mm). UNIT DUCT SHALL BE INCLUDED IN THE COST OF THE LOOP WIRE.
2. THE NUMBER OF LOOP TURNS SHALL BE AS RECOMMENDED 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 DIVEHOLES 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.



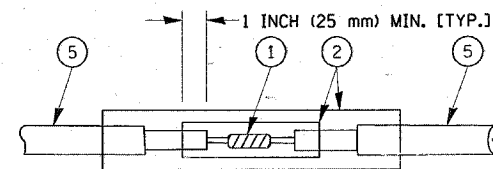
DETECTOR LOOP WIRING SCHEMATIC

- 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.

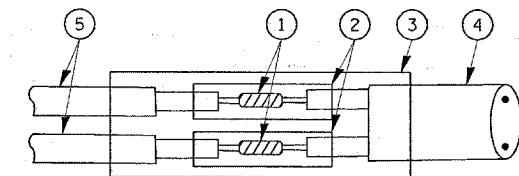
LOOP LEAD-IN CABLE TAG



- 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.



**DETAIL "A"
LOOP-TO-LOOP SPLICE**



**DETAIL "B"
LOOP-TO-CONTROLLER SPLICE**

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.

FILE NAME = W:\disto\std\22x34\ts05.dgn	USER NAME = smthkl	DESIGNED - D.A.D.	REVISED - 11-12-01
		DRAWN - R.W.P.	REVISED - BUR, TRAFFIC 01-01-02
	PLOT SCALE = 50.0000' / IN.	CHECKED - D.A.Z.	REVISED -
	PLOT DATE = 4/27/2008	DATE - 05-30-00	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

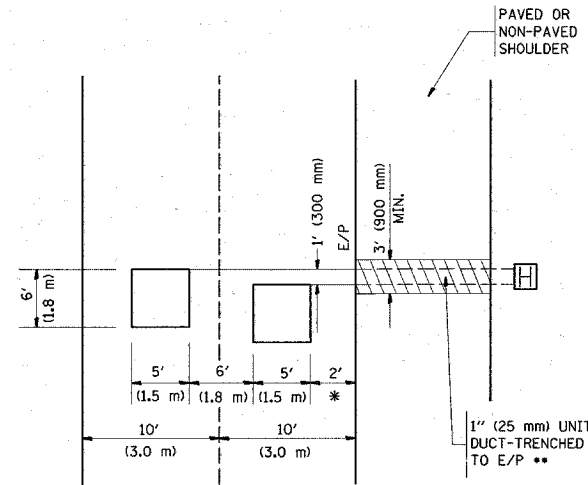
**DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS**

SCALE: NONE SHEET NO. 1 OF 4 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
029	3239 (B-X+C) 2-RS-1	COOK	54	53
TS-05			CONTRACT NO. 60D96	
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.



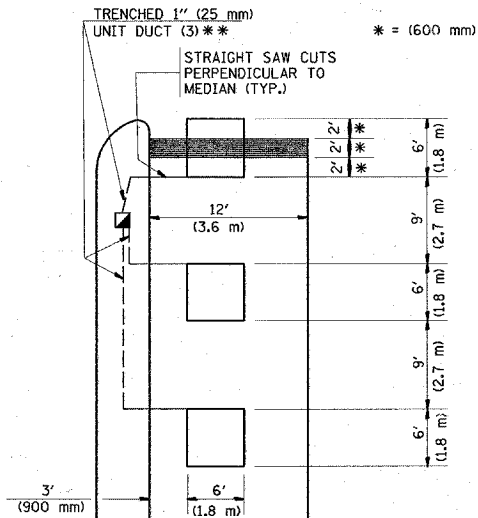
* = (600 mm)

** 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.

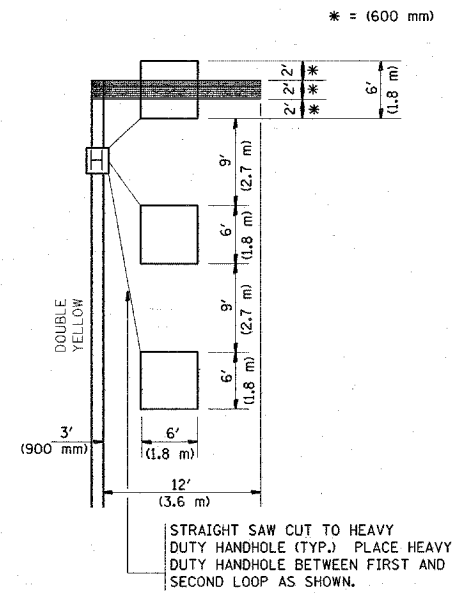


** UNIT DUCT IS TO BE SHOWN ON PLAN SHEETS
BUT SHALL NOT BE INCLUDED IN THE PAY ITEMS.

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

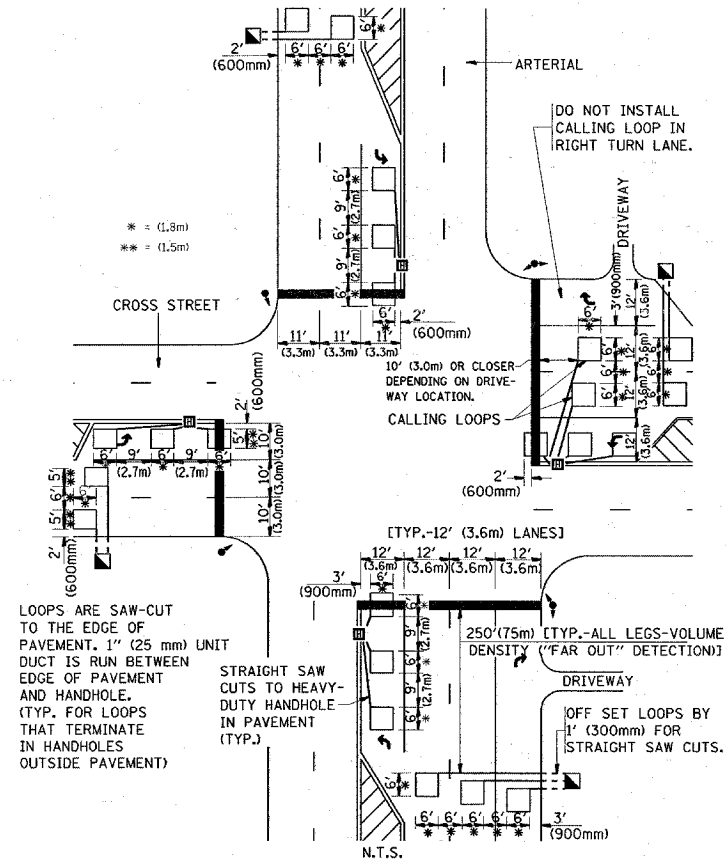
**LEFT TURN LANES WITHOUT MEDIANS
VOLUME DENSITY ("FAR OUT" DETECTION)
ON SAME APPROACH**

(PROTECTED / PERMITTED LEFT TURN PHASING)



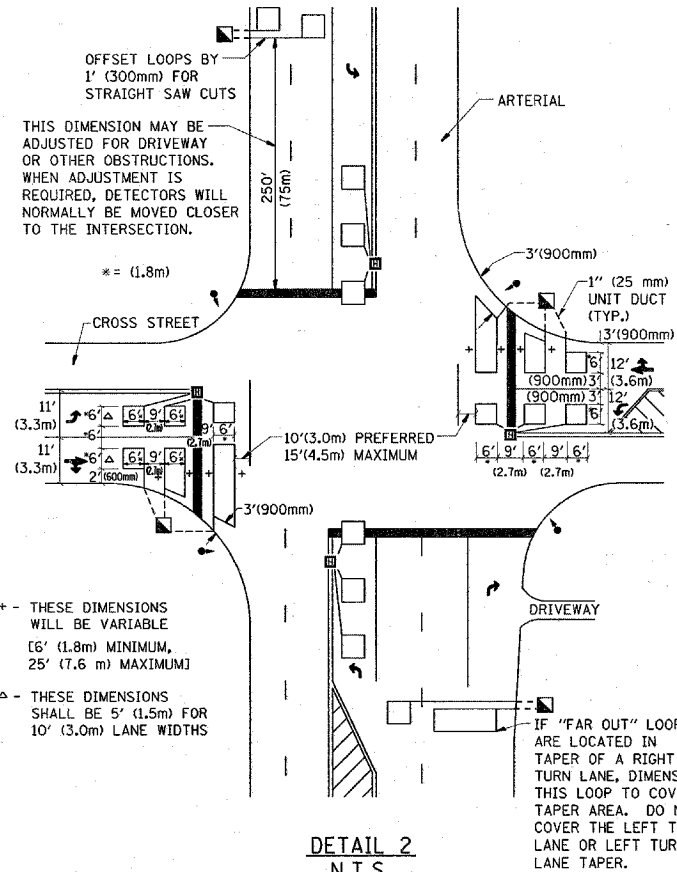
NOTE: DUAL LEFT TURNS NOT SHOWN REFER TO
PLAN SHEET FOR DETECTOR LOOP REPLACEMENT

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



DETAIL 1
N.T.S.

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



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 RUN 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.

FILE NAME =
W:\dats\d1\22x34\ts07.dgn

USER NAME = smthkl
PLOT SCALE = 50.0000' / IN.
PLOT DATE = 4/2/2008

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.
029	3239 (B-X-C) 2-RS-1	COOK	54	54
TS-07			CONTRACT NO. 60296	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				