

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS

**PROPOSED  
HIGHWAY PLANS**

F.A.P. ROUTE 341 / ILL 72 (WB)  
FORBES AVENUE TO BEVERLY ROAD

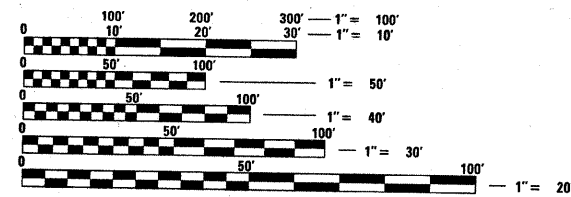
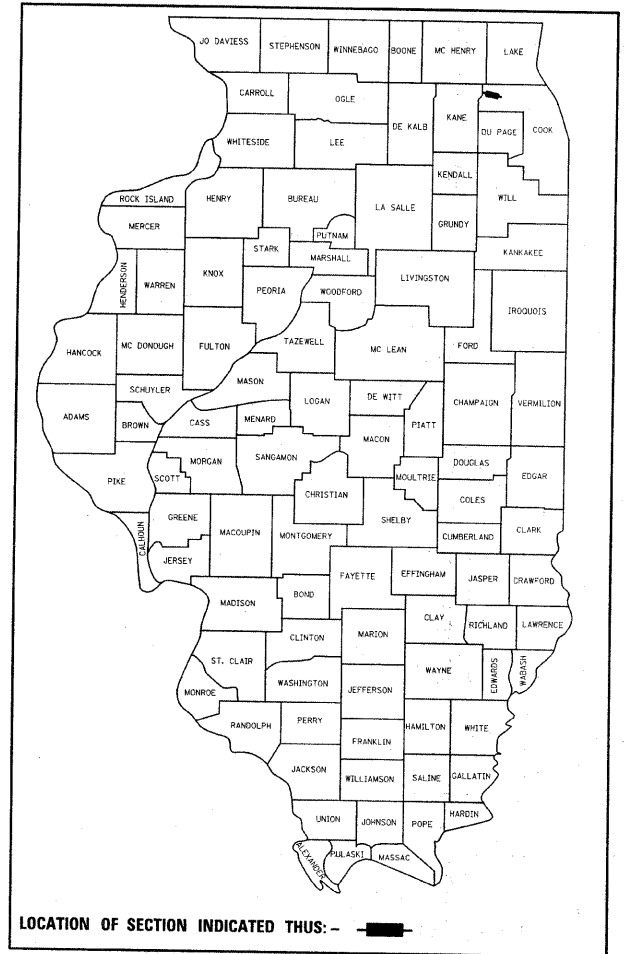
SECTION: 32 RS-8  
RESURFACING  
PROJECT: F-0341(051)  
COOK COUNTY  
C-91-315-10

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
341	32 RS-8	COOK	19	1
FED. ROAD DIST. NO. 1		ILLINOIS	CONTRACT NO. 60J93	

FOR INDEX OF SHEETS, SEE SHEET NO. 2

PROJECT IS LOCATED IN THE VILLAGE OF HOFFMAN ESTATES

D-91-315-10



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.

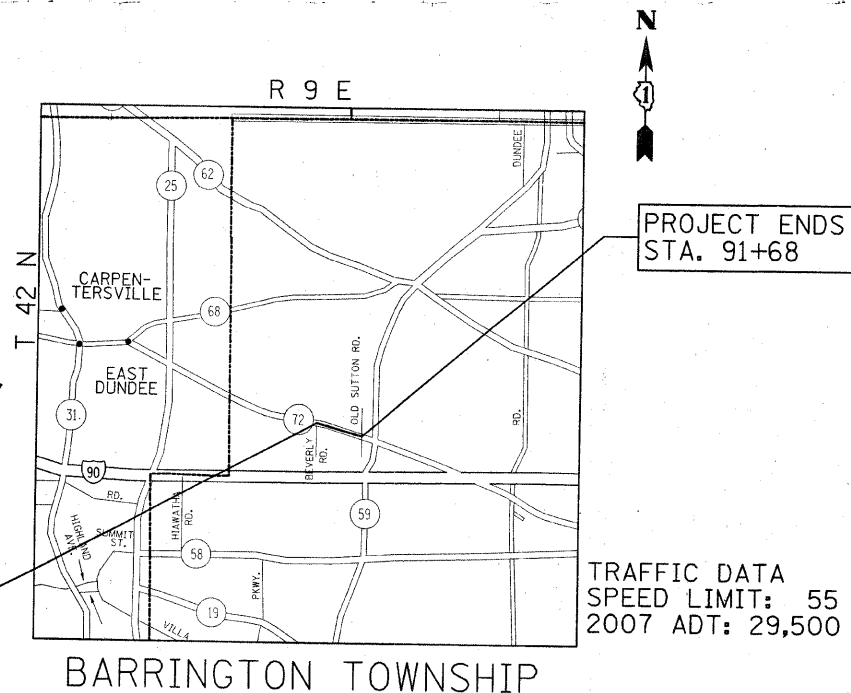
J.U.L.I.E.  
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION  
1-800-892-0123  
OR 811

PROJECT ENGINEER: DAN WILGREEN (847) 705-4240  
PROJECT MANAGER: KEN ENG

CONTRACT NO. 60J93

OMISSION  
STA. 82+28 TO STA. 83+87

PROJECT BEGINS  
STA. 17+86



TRAFFIC DATA  
SPEED LIMIT: 55 MPH  
2007 ADT: 29,500

GROSS LENGTH OF PROJECT = 7,382 FEET (1.4 MILES)  
NET LENGTH OF PROJECT = 7,223 FEET (1.4 MILES)

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS

SUBMITTED FEBRUARY 5, 2010

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

March 19, 2010

Scott E. Stitt, P.E.  
ACTING ENGINEER OF DESIGN AND ENVIRONMENT

March 19, 2010

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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3	SUMMARY OF QUANTITIES
4-5	TYPICAL SECTIONS
6-8	ROADWAY & PAVEMENT MARKING PLANS
9-11	DETECTOR LOOP REPLACEMENT PLANS
12	PAVEMENT PATCHING FOR HOT-MIX ASPHALT SURFACED PAVEMENT (BD-22)
13	BUTT JOINT AND HOT-MIX ASPHALT TAPER DETAILS (BD-32)
14	TRAFFIC CONTROL AND PROTECTION FOR SIDES ROADS, INTERSECTIONS AND DRIVEWAYS (TC-10)
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17	TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TO REMAIN OPEN TO TRAFFIC) (TC-14)
18	DISTRICT 1 DETECTOR LOOP INSTALLATION DETAILS FOR ROADWAY RESURFACING (TS-07)
19	ARTERIAL ROAD INFORMATION SIGNING (TC-22)

STATE STANDARDS

000001-05	STANDARD SYMBOLS, ABBREVIATIONS, AND PATTERNS
442201-03	CLASS C AND D PATCHES
701421-02	LANE CLOSURE, MULTILANE, DAY OPERATIONS ONLY, FOR SPEEDS ≥ 45 MPH TO 55 MPH
701426-03	LANE CLOSURE, MULTILANE, INTERMITTENT OR MOVING OPERATIONS FOR SPEEDS ≥ 45 MPH
701701-04	URBAN LANE CLOSURE, MULTILANE INTERSECTION
701901-01	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 HOFFMAN ESTATES.

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

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.

TWO WEEKS PRIOR TO PLACING PERMANENT PAVEMENT MARKINGS, CONTACT WALLY CZARNY, AREA TRAFFIC FIELD ENGINEER AT (773) 685-4342.

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

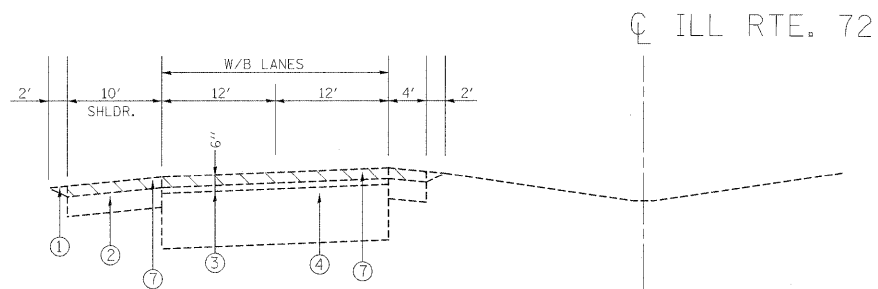
FILE NAME =	USER NAME = abreuah	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>ILL 72 (WB) FROM FORBES AVE. TO BEVERLY RD. INDEX OF SHEETS STATE STANDARDS AND GENERAL NOTES</b>	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
c:\pwork\pwork\DOT\ABREUAH\d0182727\013110-Design.dgn	DRAWN -	REVISED -	341			32 RS-8	COOK	19	2	
PLOT SCALE = 50.0000' / IN.	CHECKED -	REVISED -	CONTRACT NO. 60J93							
PLOT DATE = 2/5/2010	DATE -	REVISED -	FED. ROAD DIST. NO. 1   ILLINOIS FED. AID PROJECT							
					SCALE: 1" = 50'	SHEET NO.	OF	SHEETS	STA.	TO STA.

SUMMARY OF QUANTITIES				CONSTRUCTION TYPE CODE					SUMMARY OF QUANTITIES				CONSTRUCTION TYPE CODE						
CODE NO	ITEM	UNIT	TOTAL QUANTITIES	URBAN 1000-2A 80% FED. 20% STATE						CODE NO	ITEM	UNIT	TOTAL QUANTITIES	URBAN 1000-2A 80% FED. 20% STATE					
44201791	CLASS D PATCHES, TYPE II, 12 1/2 INCH	SO YD	455	455						* 78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	311	311					
44211796	CLASS D PATCHES, TYPE IV, 12 1/2 INCH	SO YD	33	33						* 78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	159	159					
20201006 21400100 40600200	GRADING AND SHAPING SHOULDERS GRADING AND SHAPING DITCHES BITUMINOUS MATERIALS (PRIME COAT)	UNIT FOOT TON	129 800 30	129 800 30						* 78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	246	246					
40600300	AGGREGATE (PRIME COAT)	TON	148	148						78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	197	197					
40600400	MIXTURE FOR CRACKS, JOINTS, AND FLANGEWAYS	TON	55	55						* 88600600	DETECTOR LOOP REPLACEMENT	FOOT	624	624					
40600826	POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50	TON	1525	1525						X0322256	TEMPORARY INFORMATION SIGNING	SO FT	51.4	51.4					
40600895	CONSTRUCTING TEST STRIP	EACH	1	1															
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SO YD	447	447															
40603595	POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "F", N90	TON	3624	3624															
44000159	HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/2"	SO YD	36975	36975															
44201839	CLASS D PATCHES, TYPE II, 16 INCH	SO YD	43	43															
48102100	AGGREGATE WEDGE SHOULDER, TYPE B	TON	514	514															
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	6	6															
67100100	MOBILIZATION	L SUM	1	1															
70100310	TRAFFIC CONTROL AND PROTECTION, STANDARD 701421	L SUM	1	1															
70102635	TRAFFIC CONTROL AND PROTECTION, STANDARD 701701	L SUM	1	1															
70300100	SHORT-TERM PAVEMENT MARKING	FOOT	3841	3841															
70300210	TEMPORARY PAVEMENT MARKING - LETTERS AND SYMBOLS	SO FT	436.8	436.8															
70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	16017	16017															
70300240	TEMPORARY PAVEMENT MARKING - LINE 6"	FOOT	1163	1163															
70300250	TEMPORARY PAVEMENT MARKING - LINE 8"	FOOT	1356	1356															
70300260	TEMPORARY PAVEMENT MARKING - LINE 12"	FOOT	311	311															
70300280	TEMPORARY PAVEMENT MARKING - LINE 24"	FOOT	159	159															
70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SO FT	427	427															
* 78000100	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	SO FT	436.8	436.8															
* 78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	16017	16017															
* 78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	1163	1163															
* 78000500	THERMOPLASTIC PAVEMENT MARKING - LINE 8"	FOOT	1356	1356															

\* SPECIALTY ITEMS

FILE NAME =	USER NAME = abruah	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>ILL 72 W/B (FORBES AVE. TO BEVERLY RD.) SUMMARY OF QUANTITIES</b>	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
Plot Scale = 50,000' / IN.	DRAWN -	REVISED -	341			32 RS-8	COOK	19	3	
Plot Date = 2/5/2010	CHECKED -	REVISED -	CONTRACT NO. 60J93							
DATE -	REVISED -	FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT								

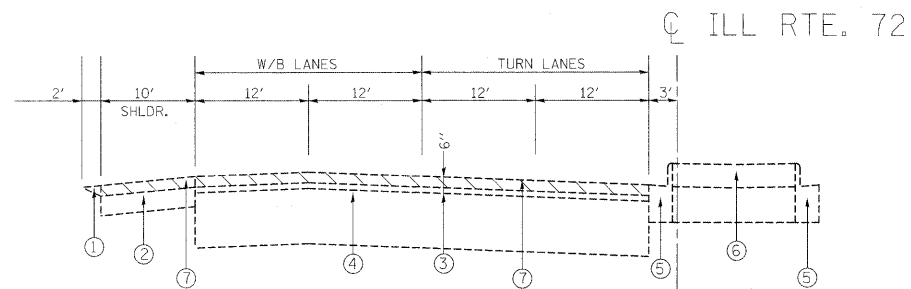
Rev



EXISTING TYPICAL SECTION  
(LOOKING EAST)

ILL 72

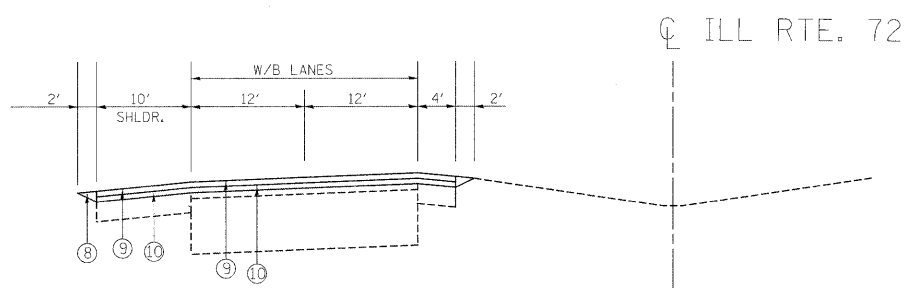
STA. 17+86 TO STA. 20+00  
 STA. 26+65 TO STA. 29+00  
 STA. 36+21 TO STA. 58+00  
 STA. 64+48 TO STA. 70+00  
 STA. 75+28 TO STA. 82+28  
 STA. 83+87 TO STA. 91+68



EXISTING TYPICAL SECTION  
(LOOKING EAST)

ILL 72

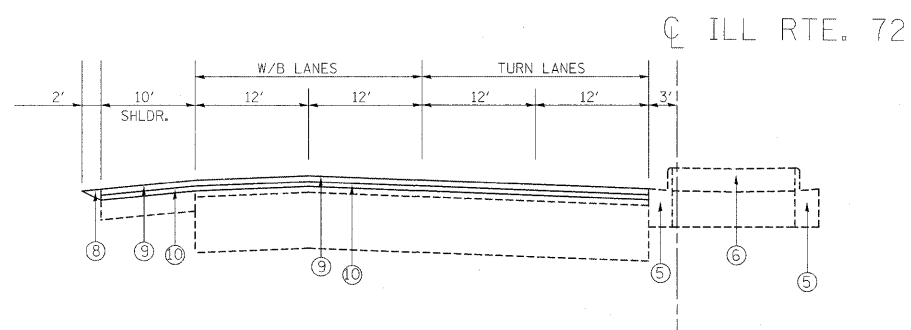
STA. 20+00 TO STA. 22+66  
 STA. 29+00 TO STA. 31+96  
 STA. 58+00 TO STA. 60+69  
 STA. 70+00 TO STA. 72+57



PROPOSED TYPICAL SECTION  
(LOOKING EAST)

ILL 72

STA. 17+86 TO STA. 20+00  
 STA. 26+65 TO STA. 29+00  
 STA. 36+21 TO STA. 58+00  
 STA. 64+48 TO STA. 70+00  
 STA. 75+28 TO STA. 82+28  
 STA. 83+87 TO STA. 91+68



PROPOSED TYPICAL SECTION  
(LOOKING EAST)

ILL 72

STA. 20+00 TO STA. 22+66  
 STA. 29+00 TO STA. 31+96  
 STA. 58+00 TO STA. 60+69  
 STA. 70+00 TO STA. 72+57

**LEGEND:**

- ① EXISTING AGGREGATE SHOULDER TYPE B
- ② EXISTING HOT-MIX ASPHALT SHOULDER, 8"
- ③ EXISTING HOT-MIX ASPHALT OVERLAY, ±6"
- ④ EXISTING PCC PAVEMENT ±9"
- ⑤ EXISTING COMBINATION CONC. CURB & GUTTER TYPE M-2.24
- ⑥ EXISTING HMA MEDIAN 8"
- \*⑦ PROPOSED HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/2"
- ⑧ PROPOSED AGGREGATE WEDGE SHOULDER, TYPE B
- ⑨ PROPOSED POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "F", N90, (IL 9.5mm); 1 3/4 "
- ⑩ PROPOSED POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50; 3/4"

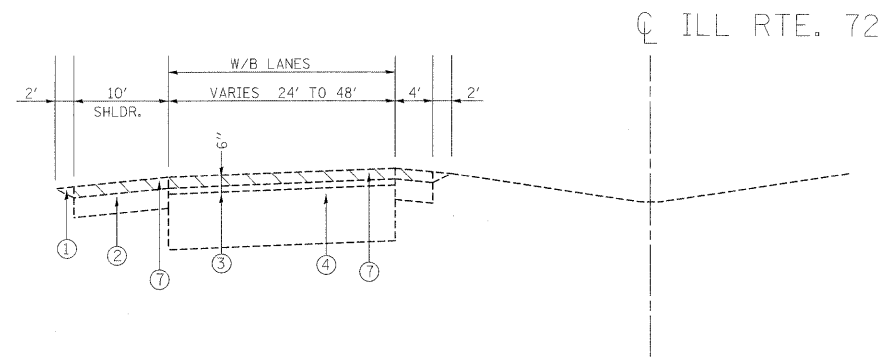
\* NOTE: CONTRACTOR SHALL MILL FIRST  
 ACCORDING TO STD. BD-22

HOT-MIX ASPHALT MIXTURE REQUIREMENTS	
MIXTURE TYPE	AIR VOIDS
RESURFACING	
POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "F", N90 (IL 9.5 mm)	4% @ 90 GYR
POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50	4% @ 50 GYR
PATCHING	
CLASS D PATCHES (HMA BINDER IL-19 mm)	4% @ 70 GYR

THE UNIT WEIGHT USED TO CALCULATE ALL HMA SURFACE MIXTURE QUANTITIES IS 112 LB/ SQ YD/IN.

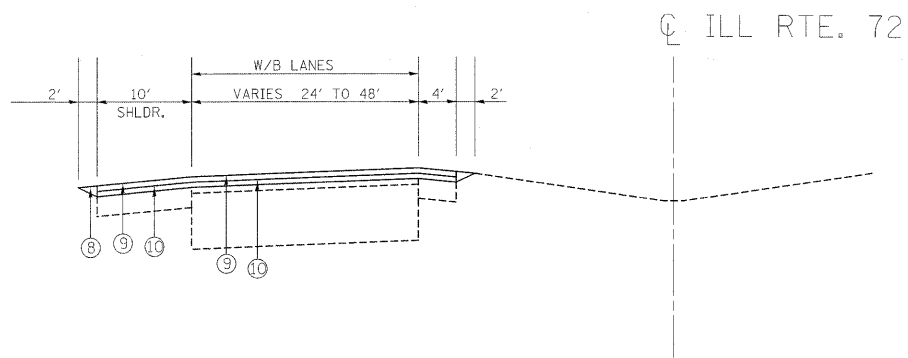
THE "AC TYPE" FOR POLYMERIZED HMA MIXES SHALL BE "SBS/SBR PG 70-22" AND FOR NON-POLYMERIZED HMA THE "AC TYPE" SHALL BE "PG 64 -22" UNLESS MODIFIED BY DISTRICT ONE SPECIAL PROVISIONS. FOR "PERCENT OF RAP" SEE DISTRICT ONE SPECIAL PROVISIONS.

FILE NAME =	USER NAME = abreuah	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>ILL 72 (FORBES AVE. TO BEVERLY ROAD) TYPICAL SECTIONS</b>	F.A.P. RTE. 341	SECTION 32 RS-8	COUNTY COOK	TOTAL SHEETS 19	SHEET NO. 4		
o:\pwork\PWIDOT\ABREUAH\0182727\0131510-Design.dgn	DRAWN -	REVISED -	SCALE: NTS			SHEET NO. OF SHEETS	STA. X TO STA. X	FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				
PLOT SCALE = 50.0000' / IN.	CHECKED -	REVISED -										
PLOT DATE = 2/19/2010	DATE -	REVISED -										



EXISTING TYPICAL SECTION  
(LOOKING EAST)

ILL 72  
 STA. 22+66 TO STA. 26+65  
 STA. 31+96 TO STA. 36+21  
 STA. 60+69 TO STA. 64+48  
 STA. 72+57 TO STA. 75+28



PROPOSED TYPICAL SECTION  
(LOOKING EAST)

ILL 72  
 STA. 22+66 TO STA. 26+65  
 STA. 31+96 TO STA. 36+21  
 STA. 60+69 TO STA. 64+48  
 STA. 72+57 TO STA. 75+28

**LEGEND:**

- ① EXISTING AGGREGATE SHOULDER TYPE B
- ② EXISTING HOT-MIX ASPHALT SHOULDER, 8"
- ③ EXISTING HOT-MIX ASPHALT OVERLAY, ±6"
- ④ EXISTING PCC PAVEMENT ±9"
- ⑤ EXISTING COMBINATION CONC. CURB & GUTTER TYPE M-2.24
- ⑥ EXISTING HMA MEDIAN 8"
- ⑦ PROPOSED HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/2"
- ⑧ PROPOSED AGGREGATE WEDGE SHOULDER, TYPE B
- ⑨ PROPOSED POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "F", N90, (IL 9.5mm); 1 3/4 "
- ⑩ PROPOSED POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50; 3/4"

FILE NAME =	USER NAME = abreuah	DESIGNED -	REVISED -
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PLOT SCALE = 50.0000' / IN.		CHECKED -	REVISED -
PLOT DATE = 2/19/2010		DATE -	REVISED -

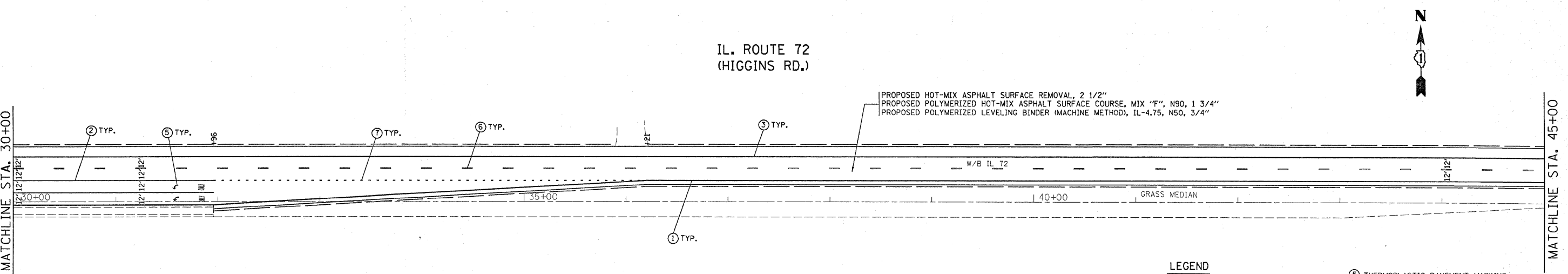
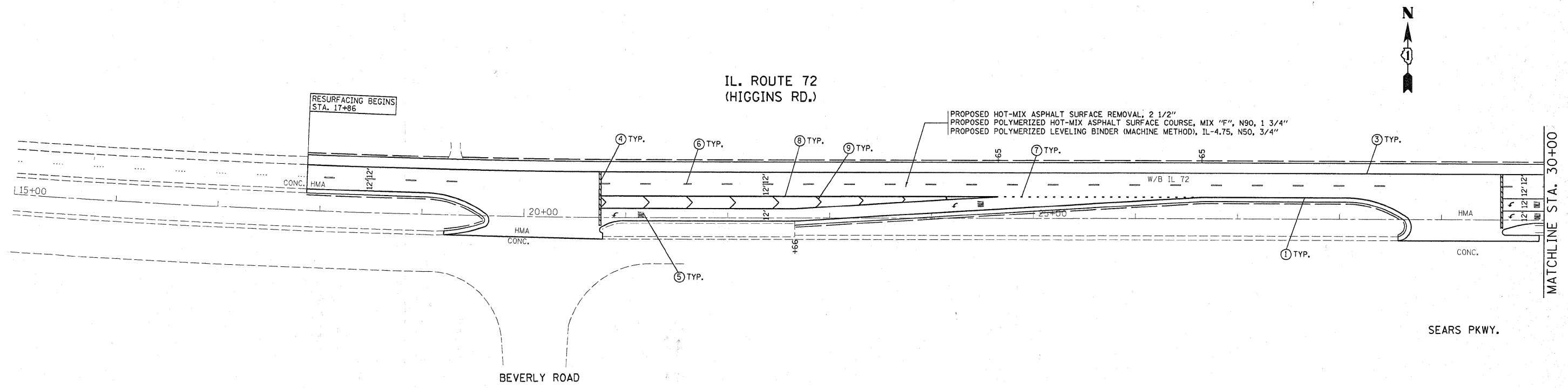
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**ILL 72 (FORBES AVE. TO BEVERLY ROAD)  
 TYPICAL SECTIONS**

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
341	32 RS-B	COOK	19	5
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

CONTRACT NO. 60J93

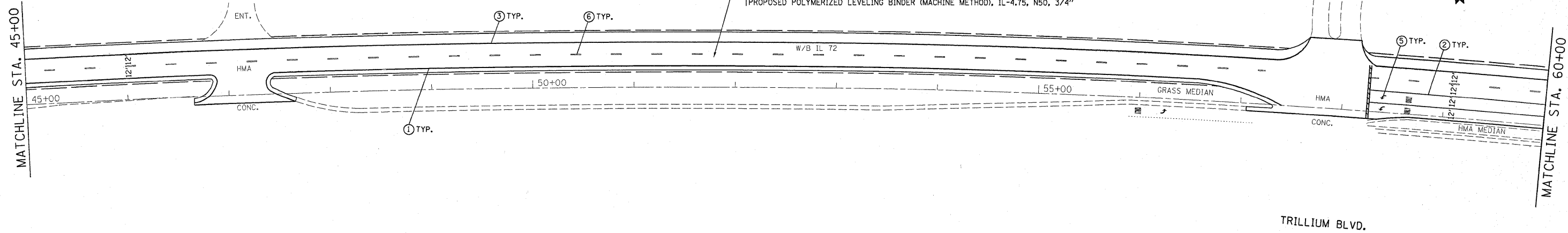


- LEGEND**
- ① THERMOPLASTIC PAVEMENT MARKING 4" SOLID SINGLE YELLOW EDGE LINE
  - ② THERMOPLASTIC PAVEMENT MARKING 6" WHITE LINE
  - ③ THERMOPLASTIC PAVEMENT MARKING EDGE LINE, 4" SOLID WHITE
  - ④ THERMOPLASTIC PAVEMENT MARKING 24" WHITE STOP BAR
  - ⑤ THERMOPLASTIC PAVEMENT MARKING LETTERS AND SYMBOLS, WHITE
  - ⑥ THERMOPLASTIC PAVEMENT MARKING 4" WHITE SKIP DASH LANE LINE
  - ⑦ THERMOPLASTIC PAVEMENT MARKING 6" WHITE DOTTED EXTENSION
  - ⑧ THERMOPLASTIC PAVEMENT MARKING 8" WHITE GORE LINE
  - ⑨ THERMOPLASTIC PAVEMENT MARKING 12" WHITE CHEVRON

FILE NAME =	USER NAME = abreuah	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>PROP. ROADWAY &amp; PAVEMENT MARKING PLAN IL. RTE. 72 (HIGGINS RD.) BEVERLY RD. TO OLD SUTTON RD.</b>			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
ct:\pwwork\p\work\DOT\ABREUAH\2010\182727\0131518-shr-plan.dgn		DRAWN -	REVISED -		341	32 RS-8	COOK	19	6			
PLOT SCALE = 50.0000' / IN.		CHECKED -	REVISED -		CONTRACT NO. 60J93							
PLOT DATE = 2/5/2010		DATE -	REVISED -		SCALE: 1"=50'	SHEET NO.	OF SHEETS	STA.	TO STA.	ILLINOIS FED. AID PROJECT		

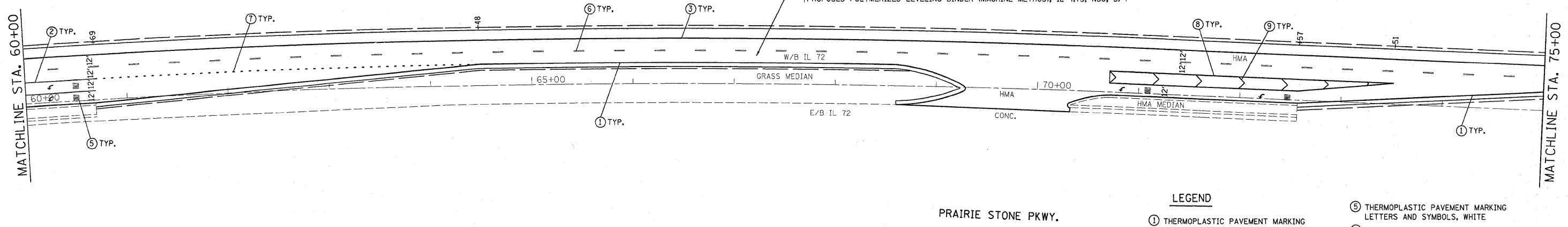
IL. ROUTE 72  
(HIGGINS RD.)

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



IL. ROUTE 72  
(HIGGINS RD.)

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



LEGEND

- ① THERMOPLASTIC PAVEMENT MARKING  
4" SOLID SINGLE YELLOW EDGE LINE
- ② THERMOPLASTIC PAVEMENT MARKING  
6" WHITE LINE
- ③ THERMOPLASTIC PAVEMENT MARKING  
EDGE LINE, 4" SOLID WHITE
- ④ THERMOPLASTIC PAVEMENT MARKING  
24" WHITE STOP BAR
- ⑤ THERMOPLASTIC PAVEMENT MARKING  
LETTERS AND SYMBOLS, WHITE
- ⑥ THERMOPLASTIC PAVEMENT MARKING  
4" WHITE SKIP DASH LANE LINE
- ⑦ THERMOPLASTIC PAVEMENT MARKING  
6" WHITE DOTTED EXTENSION
- ⑧ THERMOPLASTIC PAVEMENT MARKING  
8" WHITE GORE LINE
- ⑨ THERMOPLASTIC PAVEMENT MARKING  
12" WHITE CHEVRON

PRAIRIE STONE PKWY.

FILE NAME =	USER NAME = abreuah	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>PROP. ROADWAY &amp; PAVEMENT MARKING PLAN IL. RTE. 72 (HIGGINS RD.) BEVERLY RD. TO OLD SUTTON RD.</b>			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
ct:\p\work\PM1001\ABREUAH\0182727\0131518-sht-plan.dgn		DRAWN -	REVISED -		341	32 RS-8	COOK	19	7			
PLOT SCALE = 50.0000' / IN.		CHECKED -	REVISED -		CONTRACT NO. 60J93							
PLOT DATE = 2/5/2010		DATE -	REVISED -		ILLINOIS FED. AID PROJECT							

IL. ROUTE 72  
(HIGGINS RD.)

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

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

IL. ROUTE 72  
(HIGGINS RD.)

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

MATCHLINE STA. 75+00

MATCHLINE STA. 90+00

MATCHLINE STA. 90+00

MATCHLINE STA. 105+00



OLD SUTTON RD.

+28

+87

OMMISSION

RESURFACING ENDS  
STA. 91+68

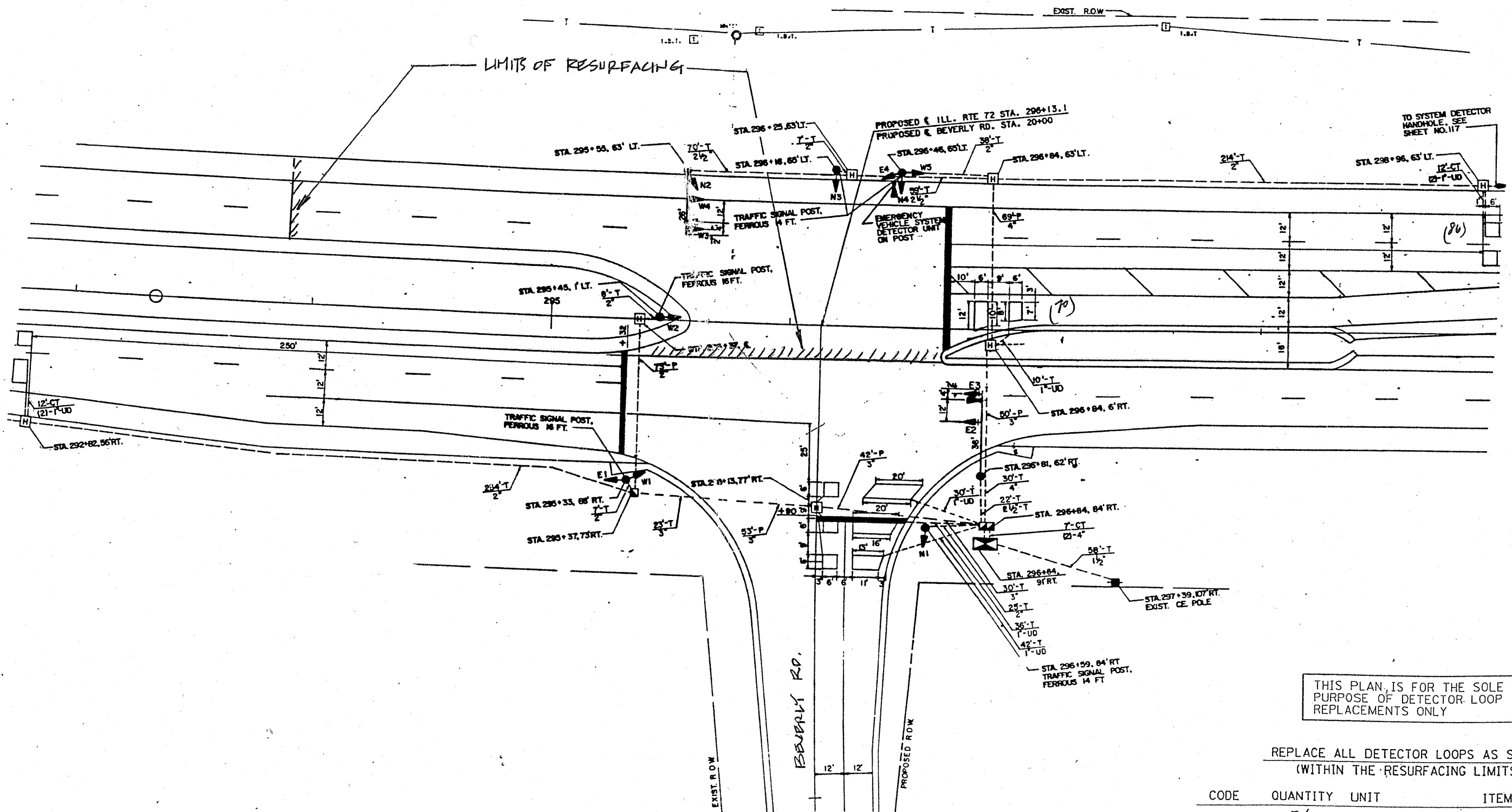
- LEGEND**
- ① THERMOPLASTIC PAVEMENT MARKING  
4" SOLID SINGLE YELLOW EDGE LINE
  - ② THERMOPLASTIC PAVEMENT MARKING  
6" WHITE LINE
  - ③ THERMOPLASTIC PAVEMENT MARKING  
EDGE LINE, 4" SOLID WHITE
  - ④ THERMOPLASTIC PAVEMENT MARKING  
24" WHITE STOP BAR
  - ⑤ THERMOPLASTIC PAVEMENT MARKING  
LETTERS AND SYMBOLS, WHITE
  - ⑥ THERMOPLASTIC PAVEMENT MARKING  
4" WHITE SKIP DASH LANE LINE
  - ⑦ THERMOPLASTIC PAVEMENT MARKING  
6" WHITE DOTTED EXTENSION
  - ⑧ THERMOPLASTIC PAVEMENT MARKING  
8" WHITE GORE LINE
  - ⑨ THERMOPLASTIC PAVEMENT MARKING  
12" WHITE CHEVRON

FILE NAME =	USER NAME = abreuh	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>PROP. ROADWAY &amp; PAVEMENT MARKING PLAN IL. RTE. 72 (HIGGINS RD.) BEVERLY RD. TO OLD SUTTON RD.</b>			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
c:\pwork\PM1001\ABREUH\0182727\0131518-sht-plan.dgn	PLOT SCALE = 50.0000' / IN.	DRAWN -	REVISED -					341	32 RS-8	COOK	19	8
PLOT DATE = 2/5/2010	DATE -	CHECKED -	REVISED -		CONTRACT NO. 60J93			ILLINOIS FED. AID PROJECT				
					SCALE: 1"=50'	SHEET NO.	OF	SHEETS	STA.	TO STA.		



**TRAFFIC SIGNAL LEGEND**

	PROPOSED	EXISTING
DETECTOR LOOP		
SIGNAL HEAD		
G.S. CONDUIT IN TRENCH OR PUSHED		
SIGNAL HEAD WITH BACKPLATE		
RACEWAY FOR MAGNETIC DETECTOR, TYPE I OR II		
VEHICLE DETECTOR, NON-COMPENSATED MAGNETIC TYPE		



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

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

CODE	QUANTITY	UNIT	ITEM
88600600	156	FOOT	DETECTOR LOOP, REPLACEMENT

FILE NAME =	USER NAME = kentphxaybc	DESIGNED - BCK	REVISED -
c:\p\work\KVPW1001\KANTHAPHIXAYBC\j01126	\traffic.legend.v7.dgn	DRAWN - BCK	REVISED -
	PLOT SCALE = 3/32" = 1" / IN.	CHECKED - DAO	REVISED -
	PLOT DATE = 4/3/2009	DATE	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

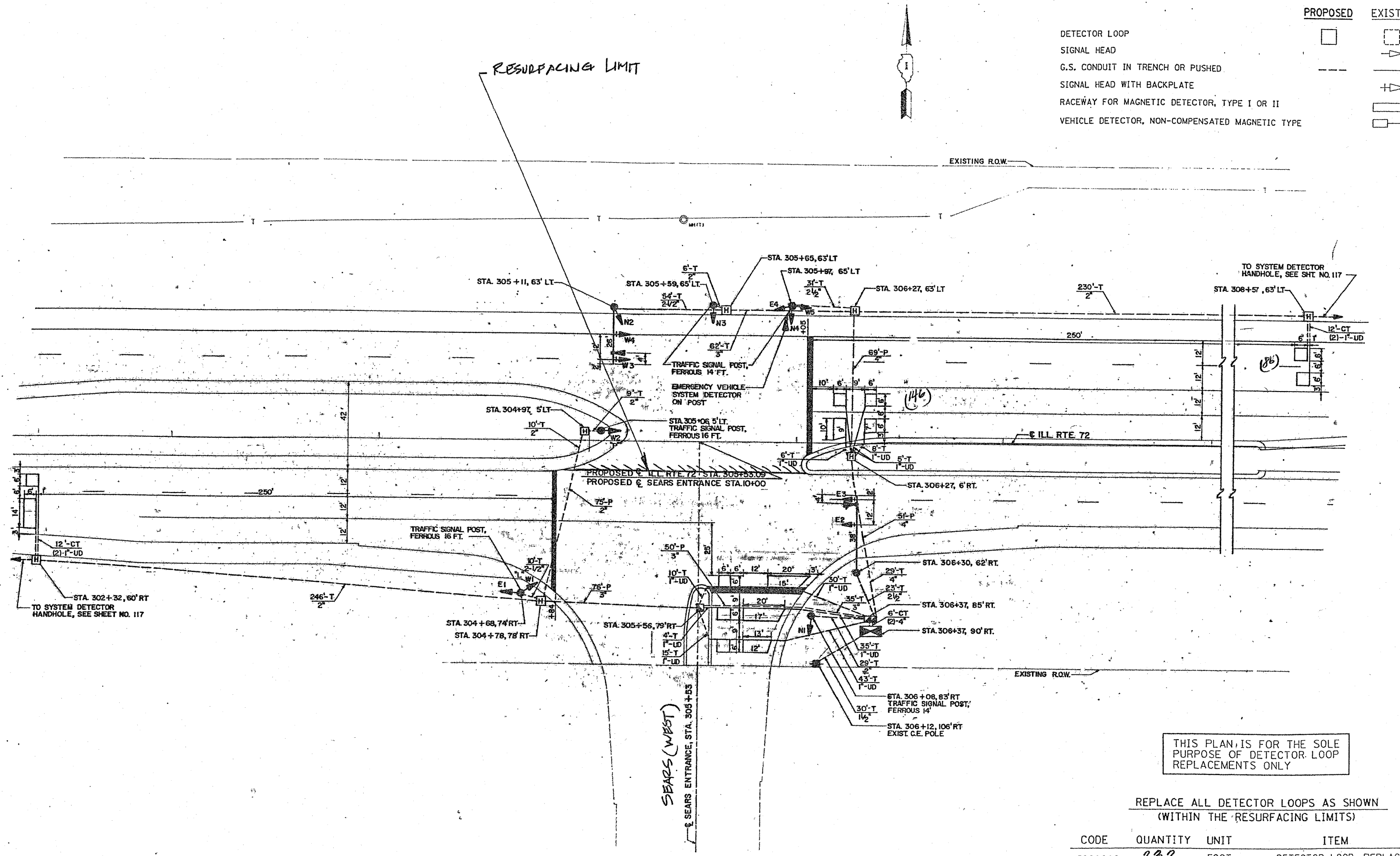
DISTRICT ONE - DETECTOR LOOP REPLACEMENT  
ILL. ROUTE 72 @ BEVERLY ROAD

SCALE: NONE	SHEET NO. OF SHEETS	STA. TO STA.	F.A.P. RTE. 341	SECTION 32 RS-8	COUNTY COOK	TOTAL SHEETS 19	SHEET NO. 9
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60593

**TRAFFIC SIGNAL LEGEND**

	PROPOSED	EXISTING
DETECTOR LOOP		
SIGNAL HEAD		
G.S. CONDUIT IN TRENCH OR PUSHED		
SIGNAL HEAD WITH BACKPLATE		
RACEWAY FOR MAGNETIC DETECTOR, TYPE I OR II		
VEHICLE DETECTOR, NON-COMPENSATED MAGNETIC TYPE		



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

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

CODE	QUANTITY	UNIT	ITEM
88600600	232	FOOT	DETECTOR LOOP, REPLACEMENT

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	PLOT DATE = 4/3/2009	DATE -	REVISED -

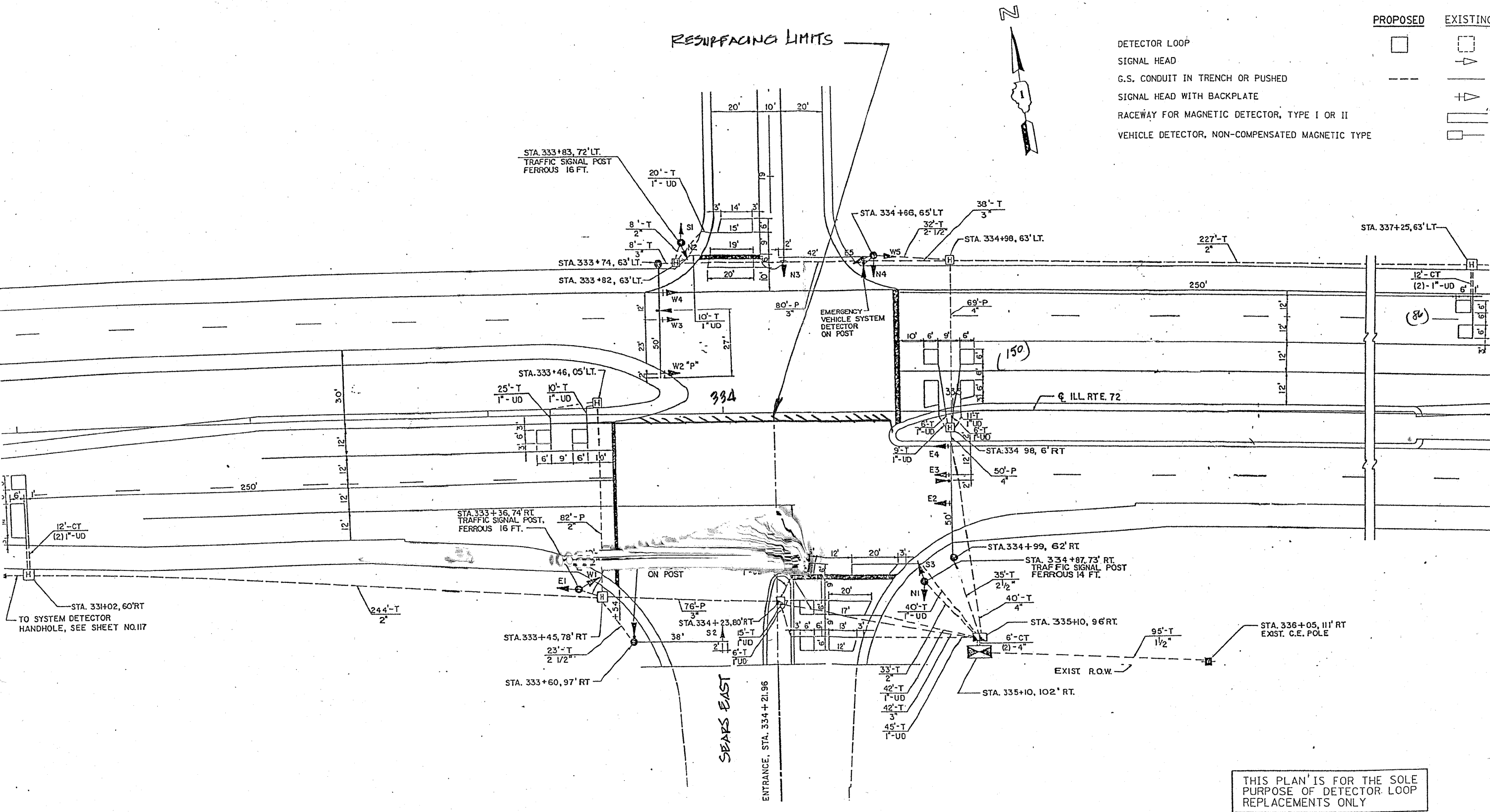
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE - DETECTOR LOOP REPLACEMENT  
ILL. ROUTE 72 @ SEARS W. ENTR.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
341	32 RS-8	COOK	19	10
CONTRACT NO.				
SCALE: NONE SHEET NO. OF SHEETS STA. TO STA. FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

TRAFFIC SIGNAL LEGEND

	PROPOSED	EXISTING
DETECTOR LOOP		
SIGNAL HEAD		
G.S. CONDUIT IN TRENCH OR PUSHED		
SIGNAL HEAD WITH BACKPLATE		
RACEWAY FOR MAGNETIC DETECTOR, TYPE I OR II		
VEHICLE DETECTOR, NON-COMPENSATED MAGNETIC TYPE		



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

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

CODE	QUANTITY	UNIT	ITEM
88600600	236	FOOT	DETECTOR LOOP, REPLACEMENT

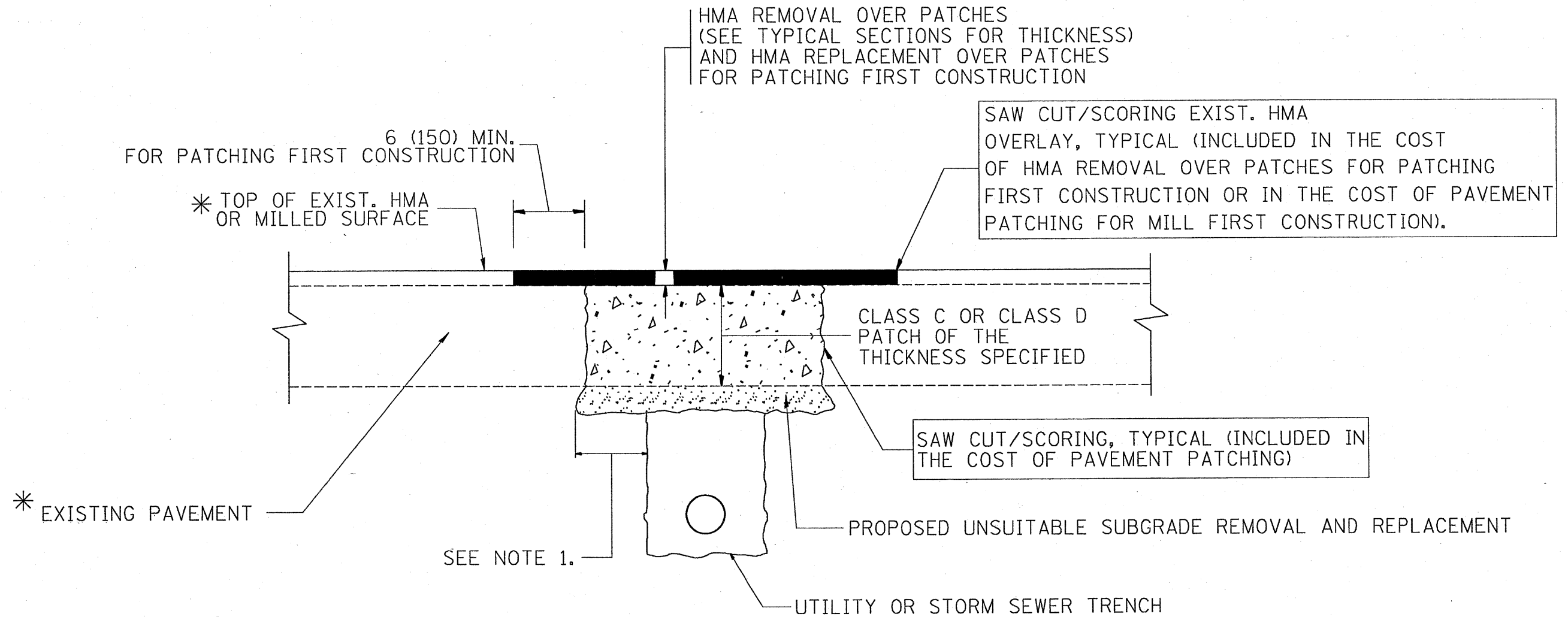
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PLOT SCALE = 3/8" = 1' IN.	CHECKED - DAD	DATE	REVISED -
PLOT DATE = 4/3/2009			

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE - DETECTOR LOOP REPLACEMENT  
ILL. ROUTE 72 @ SEARS (MILLIUM DR.)

F.A.P. RTE. 341	SECTION 32 RS-8	COUNTY Cook	TOTAL SHEETS 19	SHEET NO. 11
SCALE: NONE		SHEET NO. OF SHEETS STA. TO STA.		FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT

6.0.79



\* SEE TYPICAL SECTIONS FOR THICKNESS AND MATERIALS

**NOTES:**

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

SEQUENCE OF CONSTRUCTION (PATCHING FIRST)

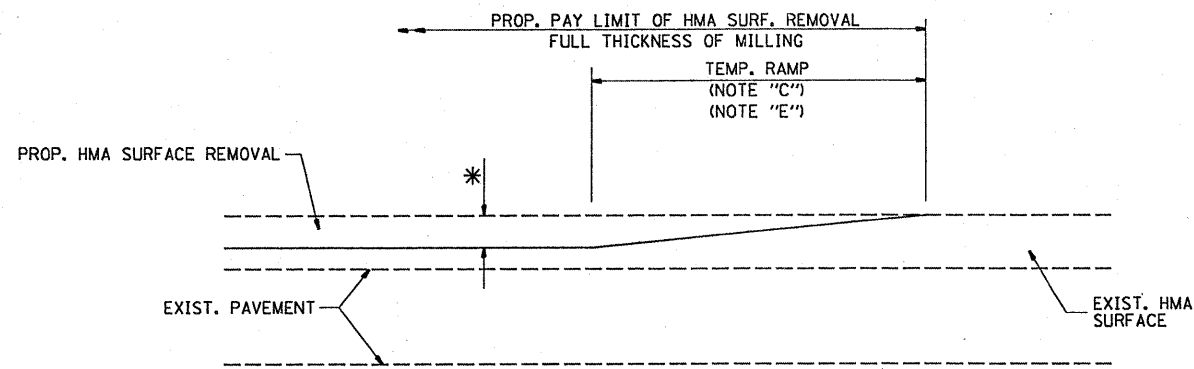
1. REMOVE THE EXISTING HMA MATERIAL OVER THE AREA TO BE PATCHED.
2. REMOVE AND REPLACE WITH CLASS C OR D PATCH.
3. REPLACE HMA MATERIAL OVER THE AREA TO BE PATCHED.

SEQUENCE OF CONSTRUCTION (MILLING FIRST)

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

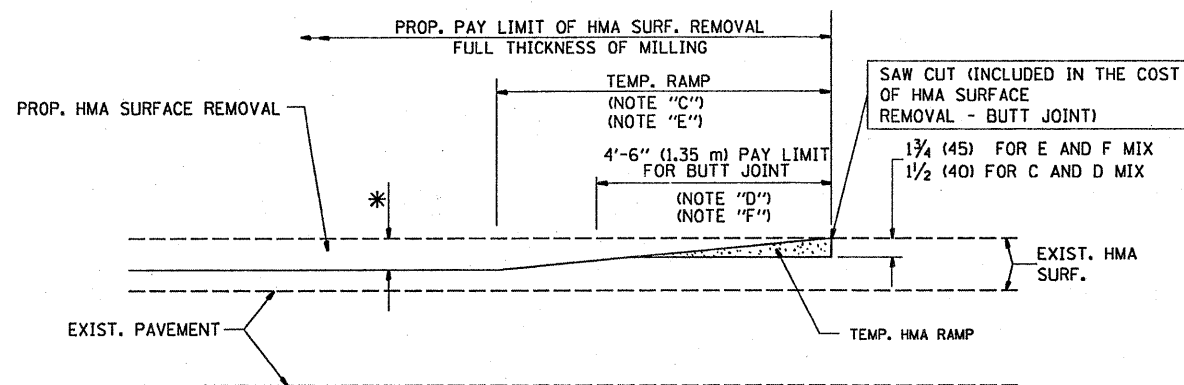
ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

FILE NAME =	USER NAME = abreuh	DESIGNED - R. SHAH	REVISED - A. ABBAS 04-27-98	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>PAVEMENT PATCHING FOR HMA SURFACED PAVEMENT</b>			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
cr:\pwork\pedit\abreuh\d8182727\Dist\d.dgn		DRAWN -	REVISED - R. BORO 01-01-07		341	32 RS-B	COOK	19	12			
PLOT SCALE = 100.0000' / IN.		CHECKED -	REVISED - R. BORO 09-04-07		BD400-04 (BD-22)			CONTRACT NO. 60J93				
PLOT DATE = 2/1/2010		DATE - 10-25-94	REVISED - K. ENG 10-27-08		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA. TO STA.	FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



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

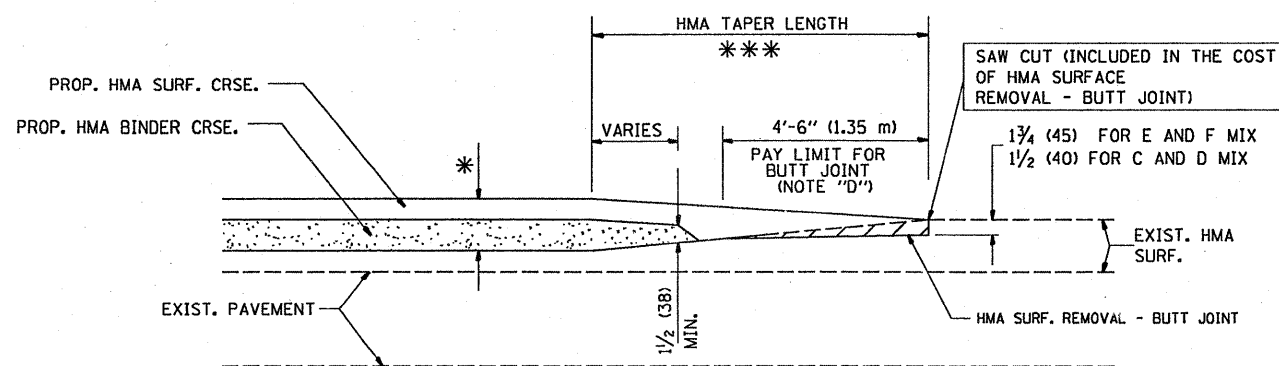
**OPTION 1**



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

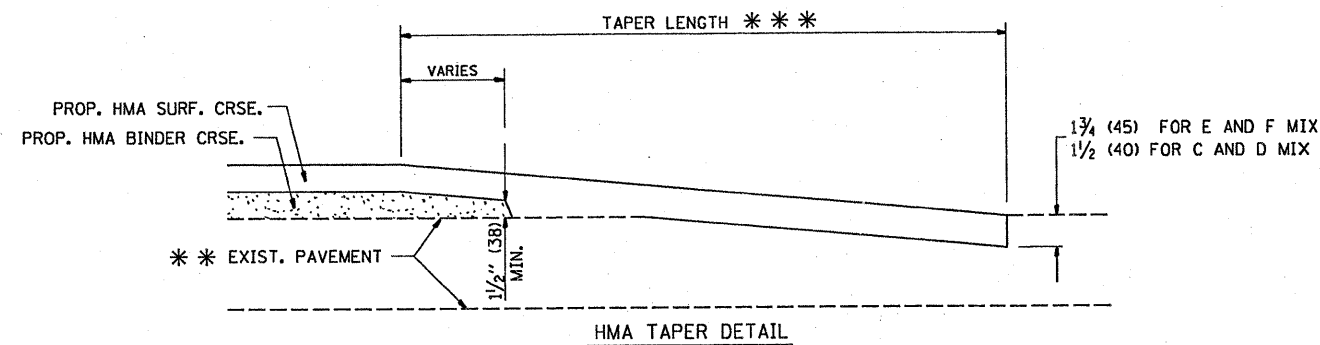
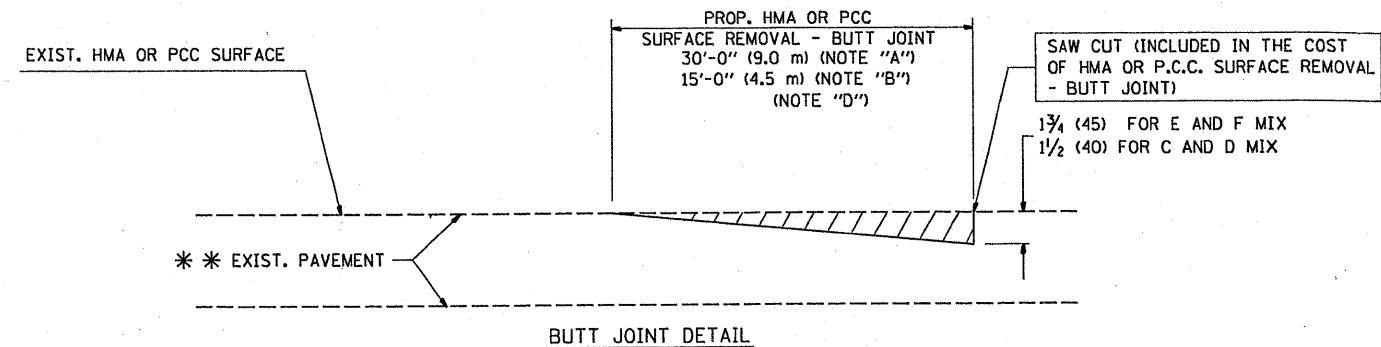
**OPTION 2**

**TYPICAL TEMPORARY RAMP**



BUTT JOINT AND  
HMA TAPER

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



**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".

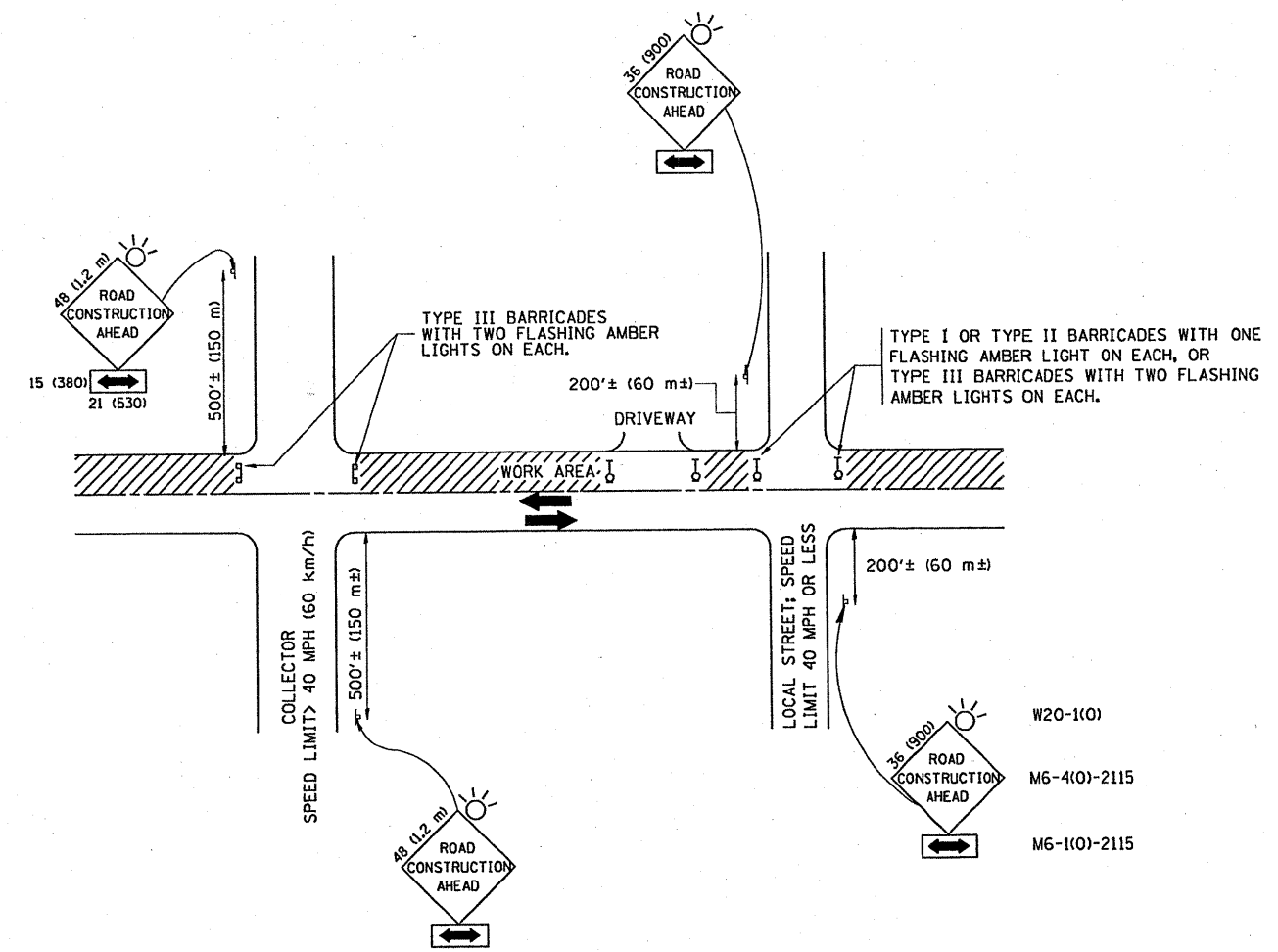
ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

FILE NAME =	USER NAME = ebraueh	DESIGNED - M. DE YONG	REVISED - R. SHAH 10-25-94
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	PLOT DATE = 2/1/2010	DATE - 06-13-90	REVISED - R. BORO 01-01-07

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>BUTT JOINT AND HMA TAPER DETAILS</b>			
SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
341	32 RS-8	COOK	19	13
3D400-05 BD32			CONTRACT NO. 60J93	
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.

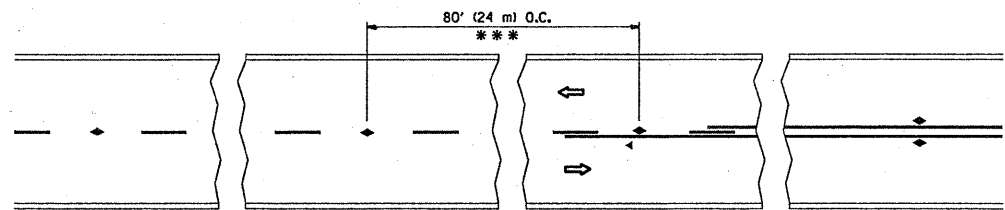
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	PLOT SCALE = 100.0000 ' / IN.	DATE - 06-89	REVISED - A. HOUSEH 10-15-96
	PLOT DATE = 2/1/2018		REVISED - T. RAMMACHER 01-06-00

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

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

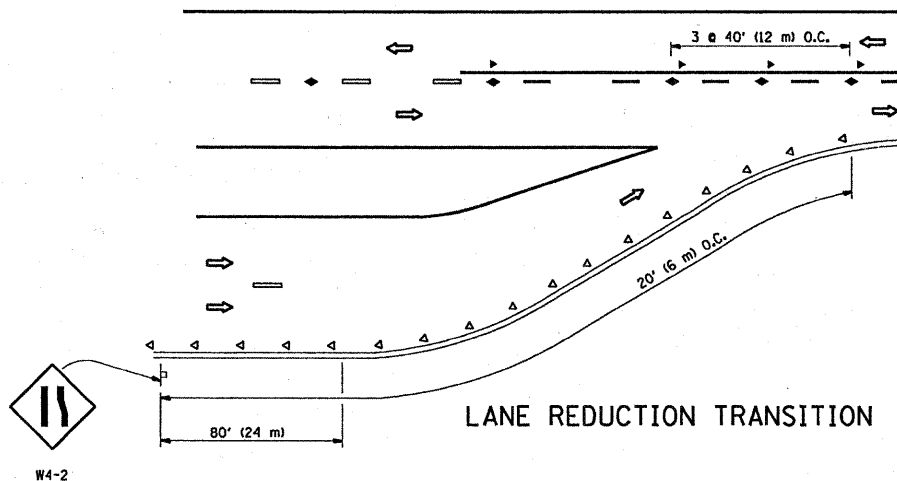
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
341	32 RS-8	COOK	19	14
TC-10			CONTRACT NO. 60J93	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

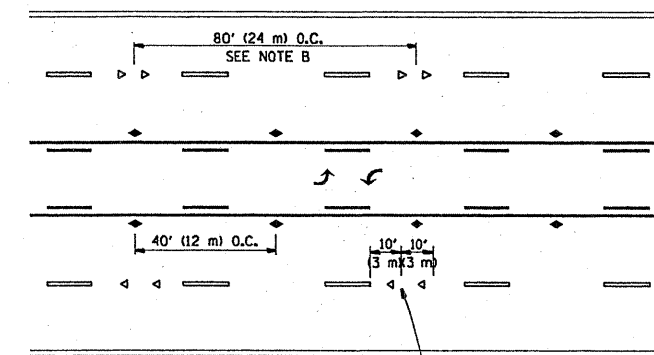


\*\*\* REDUCE TO 40' (12 m) O.C. ON CURVES WITH POSTED OR ADVISORY SPEED 45 M.P.H. (70 km/h) OR LESS.

TWO-LANE/TWO-WAY

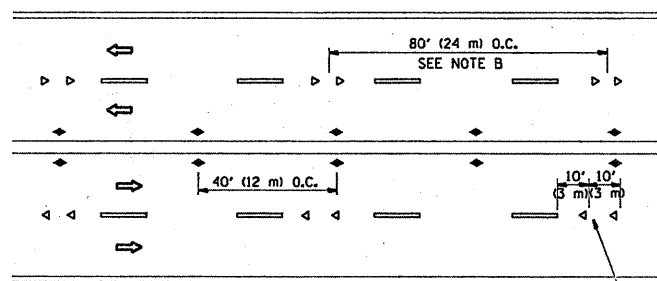


LANE REDUCTION TRANSITION



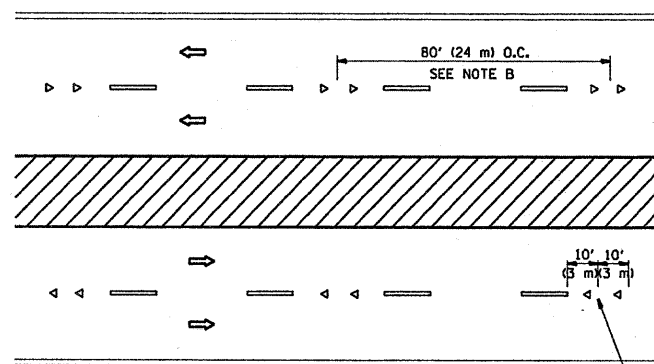
SEE NOTE A

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

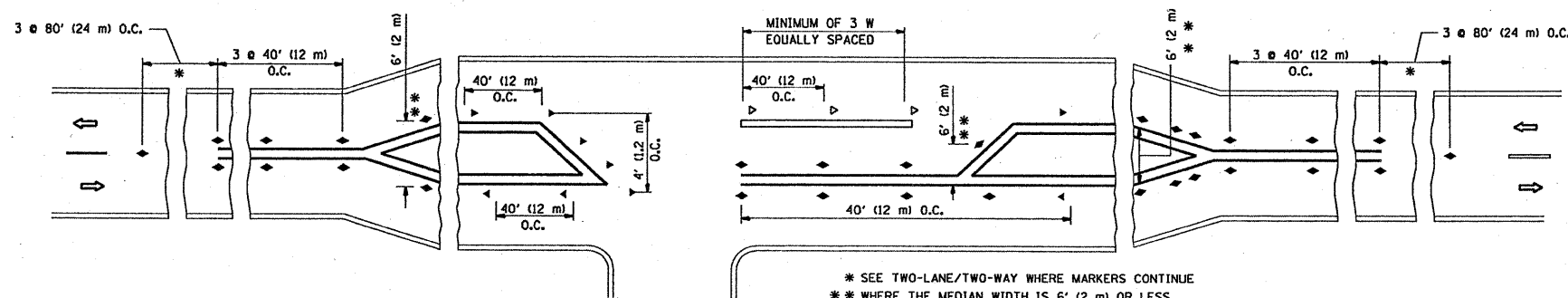
- YELLOW STRIPE
- WHITE STRIPE
- ◀ ONE-WAY AMBER MARKER
- ◁ ONE-WAY CRYSTAL MARKER (W/O)
- ◆ TWO-WAY AMBER MARKER

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

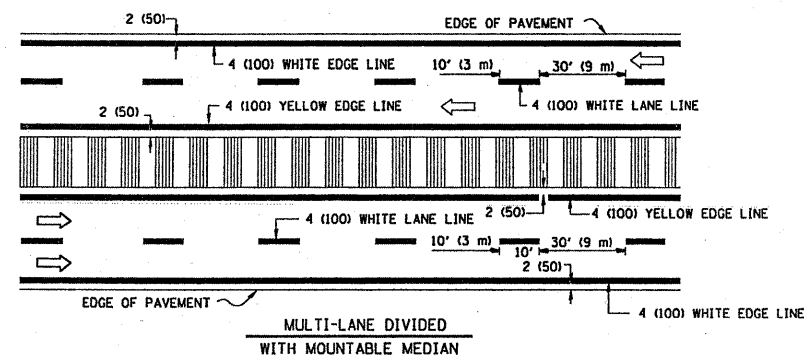
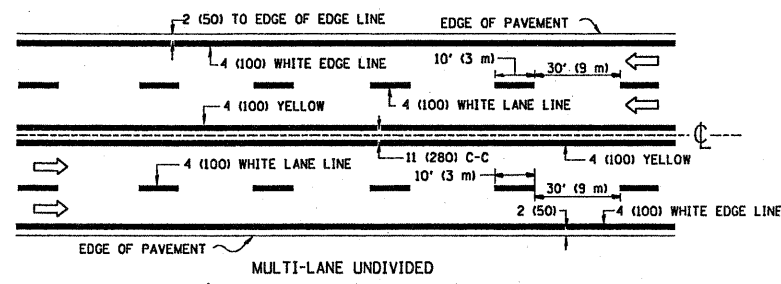
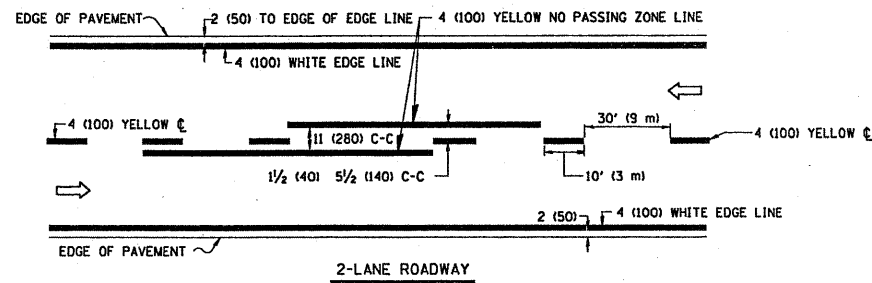
All dimensions are in Inches (millimeters) unless otherwise shown.

FILE NAME =	USER NAME = obreuh	DESIGNED -	REVISED - T. RAMMACHER 09-19-94
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	PLOT SCALE = 100.0000 "/ IN.	CHECKED -	REVISED - T. RAMMACHER 01-06-00
	PLOT DATE = 2/1/2010	DATE -	REVISED - C. JUCIUS 09-09-09

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

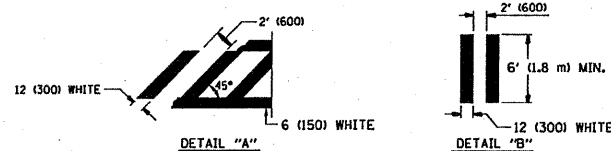
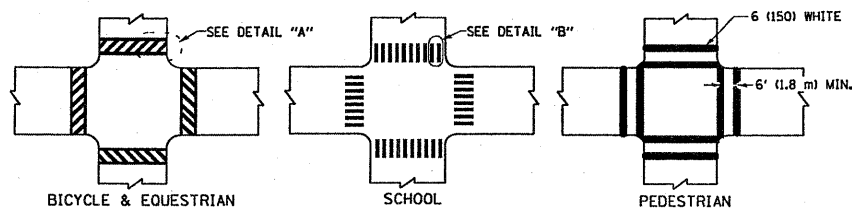
TYPICAL APPLICATIONS			
RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT)			
SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA. TO STA.	

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
341	32 RS-8	COOK	19	15
TC-11			CONTRACT NO. 60J93	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

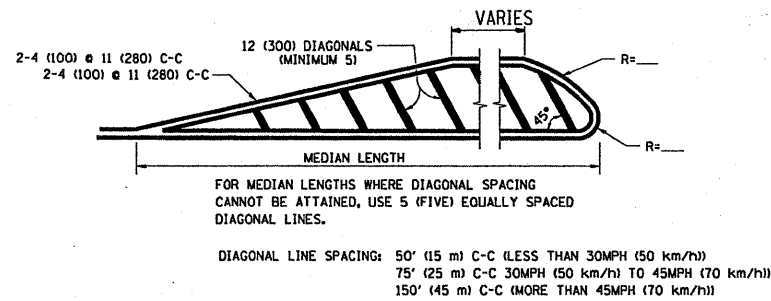
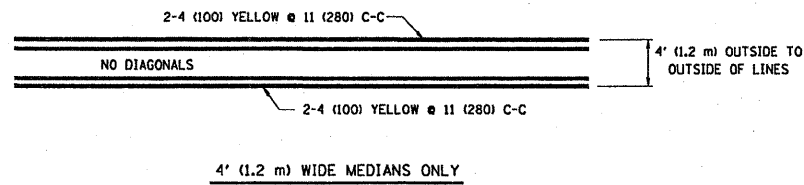


NOTE: MEDIANS WITH BARRIER CURB DO NOT REQUIRE AN EDGE LINE

**TYPICAL LANE AND EDGE LINE MARKING**

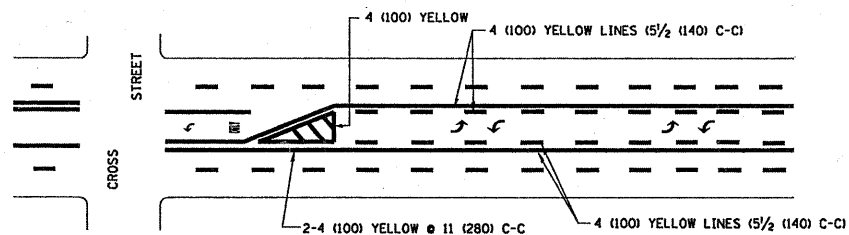


**TYPICAL CROSSWALK MARKING**

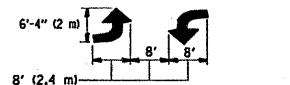


DIAGONAL LINE SPACING: 50' (15 m) C-C (LESS THAN 30MPH (50 km/h))  
75' (25 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h)  
150' (45 m) C-C (MORE THAN 45MPH (70 km/h))

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

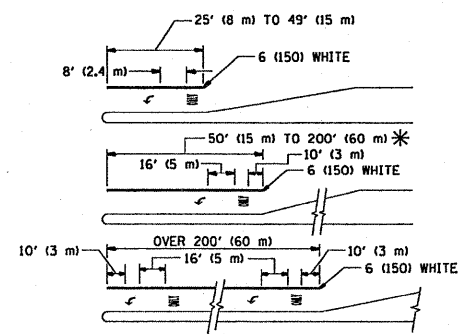


A MINIMUM OF TWO PAIRS OF TURN ARROWS SHALL BE USED, WHITE IN COLOR. ADDITIONAL PAIRS SHALL BE PLACED AT 200' (60 m) TO 300' (90 m) INTERVALS.



**MEDIAN WITH TWO-WAY LEFT TURN LANE**

**TYPICAL PAINTED MEDIAN MARKING**

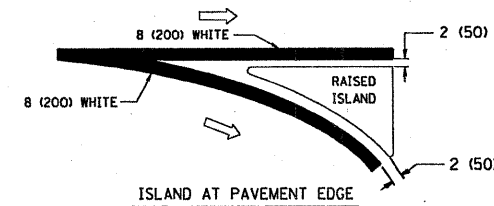
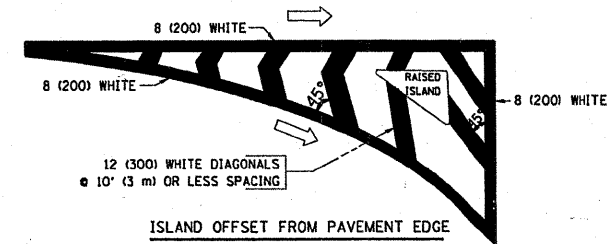


FULL SIZE LETTERS 8' (2.4 m) AND ARROWS SHALL BE USED.  
AREA = 15.6 SQ. FT. (1.5 m<sup>2</sup>) AREA = 20.8 SQ. FT. (1.9 m<sup>2</sup>)

\* TURN LANES IN EXCESS OF 400' (120 m) IN LENGTH MAY HAVE AN ADDITIONAL SET OF ARROW - "ONLY" INSTALLED MIDWAY BETWEEN THE OTHER TWO SETS OF ARROW - "ONLY".

**TYPICAL LEFT (OR RIGHT) TURN LANE**

**TYPICAL TURN LANE MARKING**



**TYPICAL ISLAND MARKING**

TYPE OF MARKING	WIDTH OF LINE	PATTERN	COLOR	SPACING / REMARKS
CENTERLINE ON 2 LANE PAVEMENT	4 (100)	SKIP-DASH	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE
CENTERLINE ON MULTI-LANE UNDIVIDED PAVEMENT	2 @ 4 (100)	SOLID	YELLOW	11 (280) C-C
NO PASSING ZONE LINES: FOR ONE DIRECTION FOR BOTH DIRECTIONS	4 (100) 2 @ 4 (100)	SOLID SOLID	YELLOW YELLOW	5/2 (140) C-C FROM SKIP-DASH CENTERLINE 11 (280) C-C OMIT SKIP-DASH CENTERLINE BETWEEN
LANE LINES	4 (100) 5 (125) ON FREEWAYS	SKIP-DASH SKIP-DASH	WHITE WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE
DOTTED LINES (EXTENSIONS OF CENTER, LANE OR TURN LANE MARKINGS)	SAME AS LINE BEING EXTENDED	SKIP-DASH	SAME AS LINE BEING EXTENDED	2' (600) LINE WITH 6' (1.8 m) SPACE
EDGE LINES	4 (100)	SOLID	YELLOW-LEFT WHITE-RIGHT	OUTLINE MOUNTABLE MEDIANS IN YELLOW EDGE LINES ARE NOT USED NEXT TO BARRIER CURB
TURN LANE MARKINGS	6 (150) LINE; FULL SIZE LETTERS & SYMBOLS (8' (2.4m))	SOLID	WHITE	SEE TYPICAL TURN LANE MARKING DETAIL
TWO WAY LEFT TURN MARKING	2 @ 4 (100) EACH DIRECTION 8' (2.4m) LEFT ARROW	SKIP-DASH AND SOLID IN PAIRS	YELLOW WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE FOR SKIP-DASH; 5/2 (140) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE SEE TYPICAL TWO-WAY LEFT TURN MARKING DETAIL
CROSSWALK LINES (PEDESTRIAN) A. DIAGONALS (BIKE & EQUESTRIAN) B. LONGITUDINAL BARS (SCHOOL)	2 @ 6 (150) 12 (300) @ 45° 12 (300) @ 90°	SOLID SOLID SOLID	WHITE WHITE WHITE	NOT LESS THAN 6' (1.8 m) APART 2' (600) APART 2' (600) APART SEE TYPICAL CROSSWALK MARKING DETAILS.
STOP LINES	24 (600)	SOLID	WHITE	PLACE 4' (1.2 m) IN ADVANCE OF AND PARALLEL TO CROSSWALK, IF PRESENT. OTHERWISE, PLACE AT DESIRED STOPPING POINT, PARALLEL TO CROSSROAD CENTERLINE, WHERE POSSIBLE
PAINTED MEDIANS	2 @ 4 (100) WITH 12 (300) DIAGONALS @ 45° NO DIAGONALS USED FOR 4' (1.2 m) WIDE MEDIANS	SOLID	YELLOW; TWO WAY TRAFFIC WHITE; ONE WAY TRAFFIC	11 (280) C-C FOR THE DOUBLE LINE SEE TYPICAL PAINTED MEDIAN MARKING.
GORE MARKING AND CHANNELIZING LINES	8 (200) WITH 12 (300) DIAGONALS @ 45°	SOLID	WHITE	DIAGONALS: 15' (4.5 m) C-C (LESS THAN 30MPH (50 km/h)) 20' (6 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h) 30' (9 m) C-C (OVER 45MPH (70 km/h))
RAILROAD CROSSING	24 (600) TRANSVERSE LINES; "RR" 15' (4.5 m) LINE FOR "X" LETTERS: 16 (400)	SOLID	WHITE	SEE STATE STANDARD 780001 AREA OF "R"=3.6 SQ. FT. (0.33 m <sup>2</sup> ) EACH "X"=54.0 SQ. FT. (5.0 m <sup>2</sup> )
SHOULDER DIAGONALS	12 (300) @ 45°	SOLID	WHITE - RIGHT YELLOW - LEFT	50' (15 m) C-C (LESS THAN 30MPH (50 km/h)) 75' (25 m) C-C (30 MPH (50 km/h) TO 45MPH (70 km/h)) 150' (45 m) C-C (OVER 45MPH (70 km/h))

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

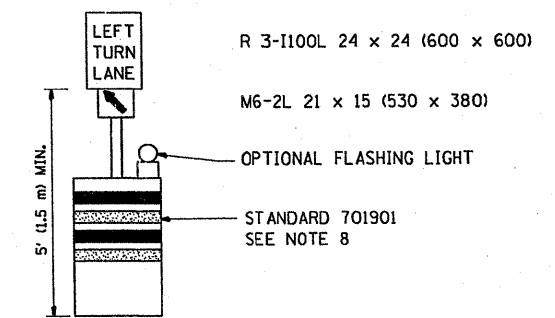
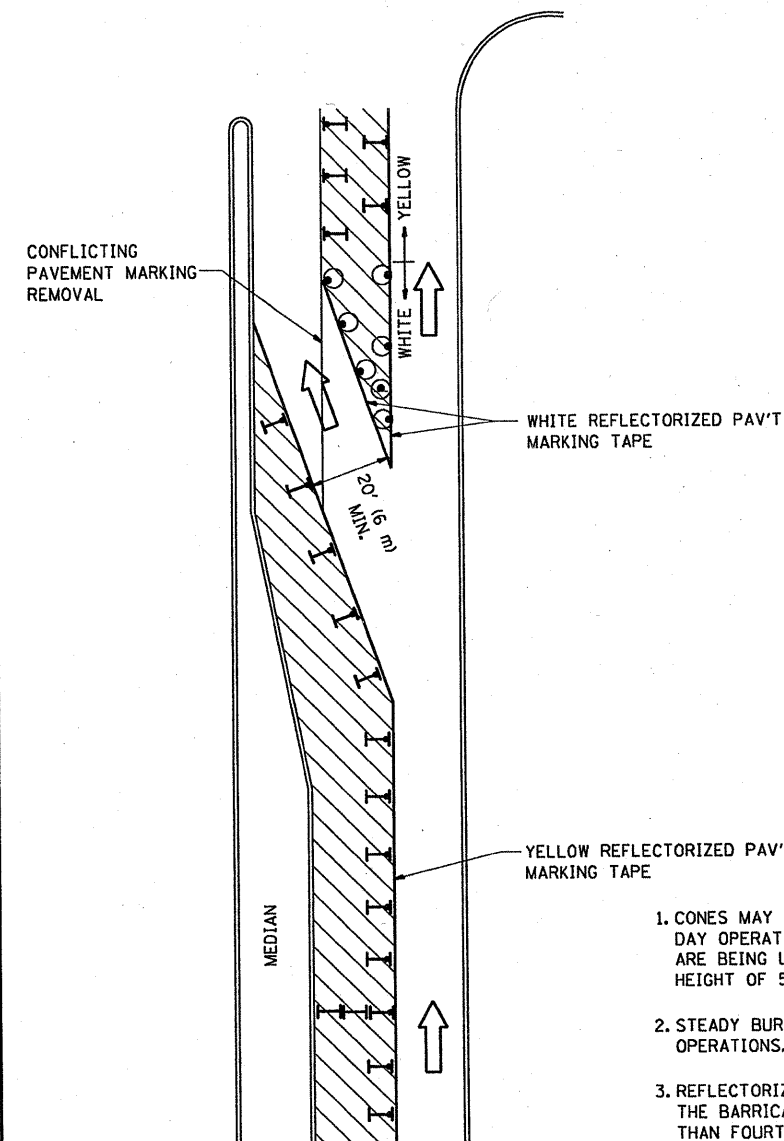
All dimensions are in inches (millimeters) unless otherwise shown.

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ce:\pw\work\p\midot\ebreueh\d0182727\01st\d.dgn		DRAWN -	REVISED - C. JUCIUS 09-09-09
PLOT SCALE = 1/8" = 1' / IN.		CHECKED -	REVISED -
PLOT DATE = 2/1/2010		DATE - 03-19-90	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

DISTRICT ONE		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
TYPICAL PAVEMENT MARKINGS		341	32 RS-8	COOK	19	16
SCALE: NONE		SHEET NO. 1 OF 1 SHEETS		STA. TO STA.	FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT	
		TC-13		CONTRACT NO. 60J93		



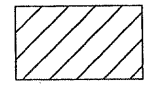







**GENERAL NOTES**

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 OPER 725 IS REQUIRED.
8. IF A DRUM OR TYPE II BARRICADE WITH AN ATTACHED SIGN PANEL WHICH MEETS NCHRP 350 REQUIREMENTS IS NOT AVAILABLE, THE SIGNS SHALL BE MOUNTED, ABOVE THE BARRICADES, ON SEPARATE SIGNS SUPPORTS THAT MEET NCHRP 350 PREQUIREMENTS.
9. 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

FILE NAME =	USER NAME = abreugh	REVISED - T. RAMMACHER 09-08-94	REVISED - R. BORO 09-14-09
cs:\pwork\pwork\abreugh\08182727\01st\td.dgn		REVISED - A. HOUSEH 11-07-95	REVISED -
	PLOT SCALE = 100.0000' / IN.	REVISED - A. HOUSEH 10-12-96	REVISED -
	PLOT DATE = 2/1/2010	REVISED - T. RAMMACHER 01-06-00	REVISED -

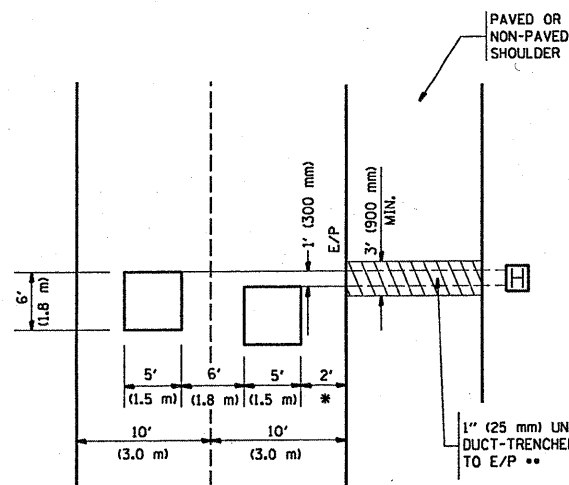
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TO REMAIN OPEN TO TRAFFIC)</b>			
SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
341	32 RS-8	COOK	19	17
TC-14			CONTRACT NO. 60J93	
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.

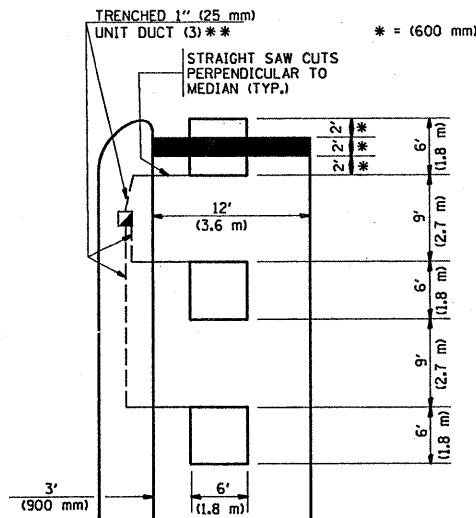


\* = (600 mm)

\*\* 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  
B14001 TO ENSURE THAT HANDHOLE  
FITS IN MEDIAN.



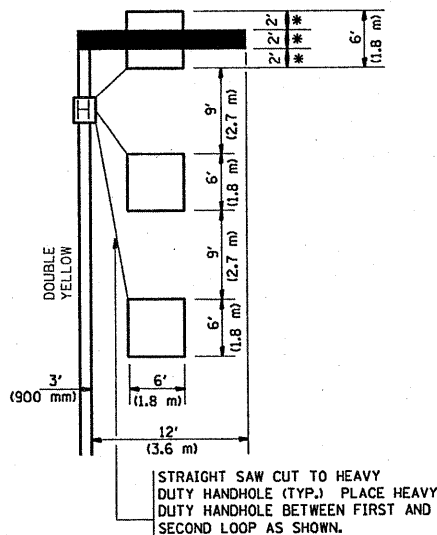
\* = (600 mm)

\*\* 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

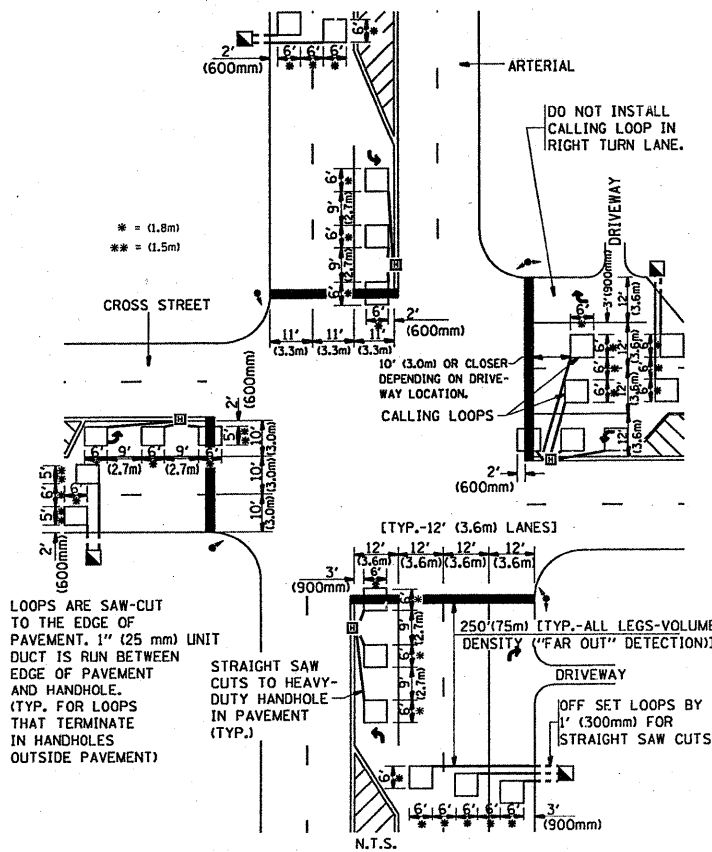
**LEFT TURN LANES WITHOUT MEDIANS  
VOLUME DENSITY ("FAR OUT" DETECTION)  
ON SAME APPROACH  
(PROTECTED / PERMITTED LEFT TURN PHASING)**

\* = (600 mm)



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

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

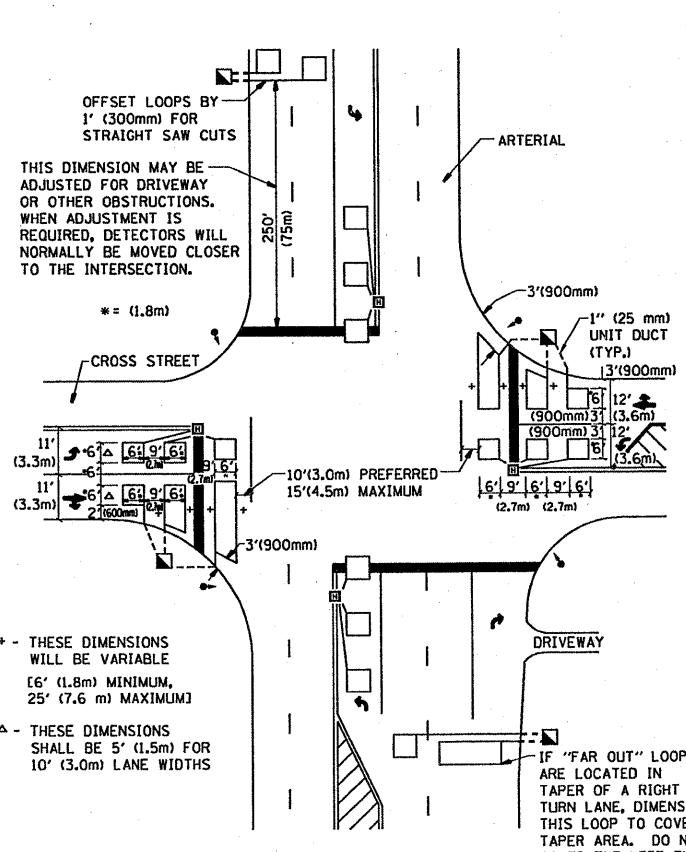


LOOPS ARE SAW-CUT  
TO THE EDGE OF  
PAVEMENT. 1" (25 mm) UNIT  
DUCT IS RUN BETWEEN  
EDGE OF PAVEMENT  
AND HANDHOLE.  
(TYP. FOR LOOPS  
THAT TERMINATE  
IN HANDHOLES  
OUTSIDE PAVEMENT)

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

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

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



+ - THESE DIMENSIONS  
WILL BE VARIABLE  
{6' (1.8m) MINIMUM,  
25' (7.6 m) MAXIMUM}

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

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

**NOTES:**

**VEHICLES LOOP DETECTORS**

- \* ALL LEAD IN CABLE SHALL BE TWO CONDUCTOR NO. 14 TWISTED, SHIELDED.
- \* EACH DETECTOR LOOP SHALL HAVE ITS OWN SAW CUT FROM THE LOOP TO THE EDGE OF PAVEMENT OR TO A HANDHOLE IN THE PAVEMENT.
- \* EACH DETECTOR LOOP SHALL HAVE ITS OWN ONE INCH (25 mm) UNIT DUCT BETWEEN THE EDGE OF PAVEMENT AND THE FIRST HANDHOLE OR JUNCTION BOX. EACH UNIT DUCT 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 DIMENSIONS OF DETECTOR LOOPS ARE REQUIRED ON ALL SIGNAL LAYOUT PLAN SHEETS.

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

**NOTE:**

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

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

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PLOT DATE = 2/1/2010	DATE -	REVISIONS -	REVISIONS -

**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.
341	32 RS-8	COOK	19	18
TS-07			CONTRACT NO. 60J93	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

