

FAU	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3578	1314 RS-3	COOK	23	1

CONTRACT 62673

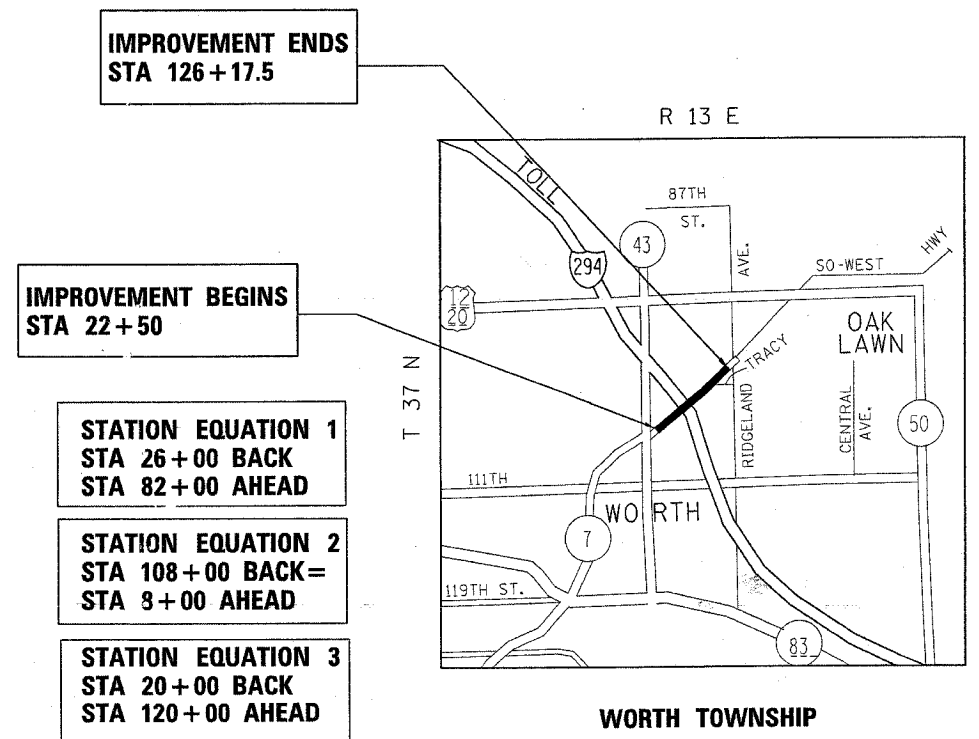
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS

**PLANS FOR PROPOSED HIGHWAY**

**FAU 3578: SOUTHWEST HWY  
IL 43 (HARLEM AVE) TO RIDGELAND AVE  
SECTION: 1314 RS-3  
RESURFACING (MAINTENANCE)  
COOK COUNTY  
C-91-036-04**

FOR INDEX OF SHEETS, SEE SHEET NO. 2

THE IMPROVEMENT IS LOCATED IN THE VILLAGES OF CHICAGO RIDGE AND WORTH



IMPROVEMENT ENDS  
STA 126+17.5

IMPROVEMENT BEGINS  
STA 22+50

STATION EQUATION 1  
STA 26+00 BACK  
STA 82+00 AHEAD

STATION EQUATION 2  
STA 108+00 BACK=  
STA 8+00 AHEAD

STATION EQUATION 3  
STA 20+00 BACK  
STA 120+00 AHEAD

**TRAFFIC DATA**

2002 ADT = 27400  
POSTED SPEED LIMIT = 40 MPH

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS

SUBMITTED March 29, 20 05

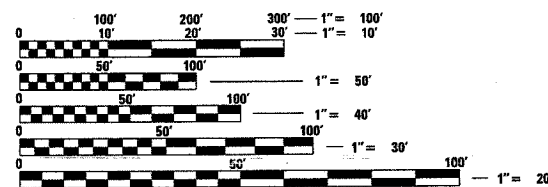
Devin O'Keefe  
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

May 13, 20 05  
Mike Hine  
ENGINEER OF DESIGN AND ENVIRONMENT

May 13, 20 05  
Victor Modesto  
DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

**PRINTED BY THE AUTHORITY  
OF THE STATE OF ILLINOIS**

DISTRICT ONE DESIGN PLAN PREPARATION ENGINEER:  
KEN ENG/JENPAI CHANG (847)705-4432



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

CONTRACT NO. 62673

GROSS AND NET LENGTH OF IMPROVEMENT = 4768 FEET = 0.90 MILES

F. A. N. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3578	1314 RS-3	COOK	23	2
STA.		TO STA.		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

CONTRACT 62673

**INDEX OF SHEETS:**

SHEET NO.	DESCRIPTION:
1	TITLE SHEET
2	INDEX OF SHEETS, STATE STANDARDS, GENERAL NOTES
3	SUMMARY OF QUANTITIES
4-7	TYPICAL SECTIONS
8-11	ROADWAY AND PAVEMENT MARKINGS
12-13	DETECTOR LOOP REPLACEMENT PLANS
14	PAVEMENT PATCHING FOR BITUMINOUS SURFACED PAVEMENT
15	BUTT JOINTS AND BITUMINOUS TAPER
16	TRAFFIC CONTROL & PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS
17	TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLow RESISTANT)
18	DISTRICT ONE TYPICAL PAVEMENT MARKINGS
19	TRAFFIC CONTROL & PROTECTION AT TURN BAYS (TO REMAIN OPEN TO TRAFFIC)
20	TEMPORARY INFORMATION SIGNING
21	CURB AND GUTTER REMOVAL AND REPLACEMENT
22	PAVEMENT MARKING LETTERS AND SYMBOLS FOR TRAFFIC STAGING
23	DISTRICT ONE DETECTOR LOOP INSTALLATION DETAIL FOR ROADWAY RESURFACING

**STATE STANDARDS:**

000001-04	STANDARD SYMBOLS, ABBREVIATIONS, AND PATTERNS
442201-01	CLASS C & D PATCHES
701101-01	OFF ROAD OPERATIONS, MULTILANE, 15' to 24" FROM PAVEMENT EDGE
701301-02	LANE CLOSURE 2L, 2W SHORT TIME OPERATIONS
701426-02	LANE CLOSURE MULTILANE, INTERMITTENT OR MOVING OPERATIONS
701606-04	URBAN LANE CLOSURE, MULTILANE 2-WAY WITH MOUNTABLE MEDIAN
701701-04	URBAN LANE CLOSURE MULTILANE INTERSECTION
701801-03	LANE CLOSURE MULTILANE 1-WAY OR 2-WAY CROSSWALK OR SIDEWALK CLOSURE
702001-05	TRAFFIC CONTROL DEVICES
886001	DETECTOR LOOP INSTALLATION
886006	TYPICAL LAYOUT FOR DETECTION LOOPS

**GENERAL NOTES:**

BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL "J.U.L.I.E." AT 1-800-892-0123 FOR FIELD LOCATIONS OF BURIED ELECTRIC, TELEPHONE, AND GAS FACILITIES. (48 HOUR NOTIFICATION IS REQUIRED)

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

WHEN MILLED PAVEMENT IS OPEN TO TRAFFIC THE MAXIMUM GRADE DIFFERENTIAL BETWEEN PASSES OF THE MILLING MACHINE SHALL NOT EXCEED 40 MM (1 1/2 INCHES) WHERE THE SPEED LIMIT IS 80 KM/H (45 MPH) OR LESS AND 25 MM (1 INCH) WHERE THE SPEED LIMIT IS GREATER THAN 80 KM/H (45 MPH). WITH WRITTEN APPROVAL FROM THE ENGINEER, A MAXIMUM GRADE DIFFERENTIAL OF 75 MM (3 INCHES) MAY BE ALLOWED IF THE EDGE OF THE MILLING IS SLOPED A MINIMUM 1:3 (V:H).

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

UNLESS OTHER CONDITIONS WARRANT EXTENDED LANE CLOSURE 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 CONTACT PATRICE HARRIS, AREA TRAFFIC FIELD ENGINEER, AT (708) 597-9800 A MINIMUM OF 72 HOURS PRIOR TO PLACEMENT OF PERMANENT PAVEMENT MARKINGS.

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

ANY CULVERTS THAT NEED TO BE CLEANED WILL BE PAID FOR AS STORM SEWERS TO BE CLEANED.

WORK ZONE PUBLIC INFORMATION SIGNS SHALL BE ERECTED.

**MIXTURE REQUIREMENTS**

MIXTURE TYPE	PG TYPE	VOIDS	MAX RAP %
POLYMERIZED BITUMINOUS CONCRETE SURFACE COURSE, SUPERPAVE, MIX "F", N90	SBS/SBR PG 70-22	4% @ 90 GYR.	0
POLYMERIZED LEVELING BINDER (MACHINE METHOD), SUPERPAVE, IL-4.75, N50	SBS/SBR PG 76-28	2.5% @ 50 GYR.	0
BITUMINOUS REPLACEMENT OVER PATCHES	PG 64-22	4% @ 70 GYR.	15
CLASS D PATCHES	PG 64-22	4% @ 70 GYR.	15

NOTE: 112 LBS/SY-IN WAS USED AS THE CONVERSION FOR ALL BITUMINOUS CONCRETE IN QUANTITY CALCULATIONS

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

**SOUTHWEST HWY  
INDEX OF SHEETS, STATE STANDARDS,  
AND GENERAL NOTES**

VERT. SCALE:  
HORIZ. DATE 3/31/2005

DRAWN BY  
CHECKED BY

3/31/2005 03:03:19 03/31/2005  
c:\projects\p103504\p103504cc.mxd  
REF

03:03:19 03/31/2005

SUMMARY OF QUANTITIES			CONSTRUCTION TYPE CODE					
CODE NO	ITEM	UNIT	TOTAL QUANTITIES	URBAN 1000-2A				
40600200	BITUMINOUS MATERIALS (PRIME COAT)	TON	11	11				
40600300	AGGREGATE (PRIME COAT)	TON	55	55				
40600400	MIXTURE FOR CRACKS, JOINTS, AND FLANGEWAYS	TON	3	3				
40600895	CONSTRUCTING TEST STRIP	EACH	1	1				
40600980	BITUMINOUS SURFACE REMOVAL - BUTT JOINT	SQ YD	510	510				
40601000	BITUMINOUS REPLACEMENT OVER PATCHES	TON	260	260				
44000008	BITUMINOUS SURFACE REMOVAL 2 1/2"	SQ YD	27513	27513				
44000110	BITUMINOUS REMOVAL OVER PATCHES 2 1/2"	SQ YD	1800	1800				
44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	80	80				
44004610	SIDEWALK REMOVAL AND REPLACEMENT (SPECIAL)	SQ FT	500	500				
44201765	CLASS D PATCHES, TYPE II, 10 INCH	SQ YD	240	240				
44201769	CLASS D PATCHES, TYPE III, 10 INCH	SQ YD	370	370				
44201771	CLASS D PATCHES, TYPE IV, 10 INCH	SQ YD	680	680				
50300300	PROTECTIVE COAT	SQ YD	123	123				
55039700	STORM SEWERS TO BE CLEANED	FOOT	1500	1500				
60300105	FRAMES AND GRATES TO BE ADJUSTED	EACH	5	5				
60404940	FRAMES AND GRATES, TYPE 23	EACH	3	3				
60404950	FRAMES AND GRATES, TYPE 24	EACH	5	5				
60603800	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12	FOOT	30	30				
60605000	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24	FOOT	50	50				
67000200	ENGINEER'S FIELD OFFICE, TYPE A	EACH	2	2				
67100100	MOBILIZATION	L SUM	1	1				
70102630	TRAFFIC CONTROL AND PROTECTION, STANDARD 701601	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	4680	4680				
70300210	TEMPORARY PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	115	115				

SUMMARY OF QUANTITIES			CONSTRUCTION TYPE CODE					
CODE NO	ITEM	UNIT	TOTAL QUANTITIES	URBAN 1000-2A				
70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	10770	10770				
70300240	TEMPORARY PAVEMENT MARKING - LINE 6"	FOOT	400	400				
70300260	TEMPORARY PAVEMENT MARKING - LINE 12"	FOOT	500	500				
70300280	TEMPORARY PAVEMENT MARKING - LINE 24"	FOOT	86	86				
70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SQ FT	520	520				
*78000100	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	115	115				
*78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	10770	10770				
*78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	400	400				
*78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	500	500				
*78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	86	86				
*78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	489	489				
*78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	100	100				
*88600500	DETECTOR LOOP REMOVAL	FOOT	426	426				
*88600600	DETECTOR LOOP REPLACEMENT	FOOT	426	426				
X0322256	TEMPORARY INFORMATION SIGNING	SQ FT	51.4	51.4				
X0656100	DRIVEWAY PAVEMENT REMOVAL AND REPLACEMENT	SQ YD	232	232				
X4066548	POLYMERIZED BITUMINOUS CONCRETE SURFACE COURSE, SUPERPAVE, MIX "F", N90	TON	2696	2696				
X4067100	POLYMERIZED LEVELING BINDER (MACHINE METHOD), SUPERPAVE, IL-4.75, N50	TON	1156	1156				
XX003560	CURB AND GUTTER REMOVAL AND REPLACEMENT	FOOT	500	500				
Z0018500	DRAINAGE STRUCTURES TO BE CLEANED	EACH	12	12				
Z0018600	DRAINAGE STRUCTURES TO BE RECONSTRUCTED	EACH	3	3				

\* SPECIALITY ITEM

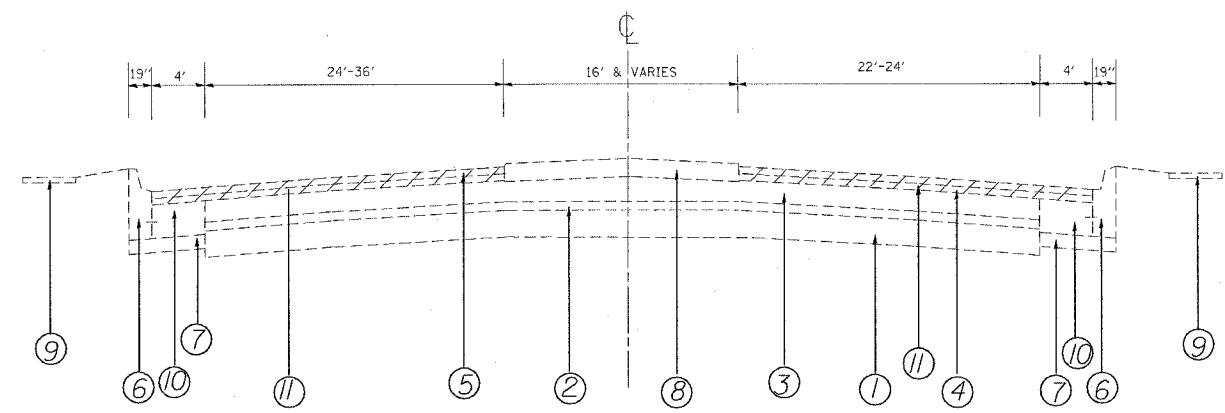
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
SUMMARY OF QUANTITIES  
SOUTHWEST HIGHWAY

3/21/2005 08:00:00 AM 03/31/2005

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3578	1314 RS-3	COOK	23	4
STA.		TO STA.		
FED. ROAD DIST. NO. 1		ILLINOIS	FED. AID PROJECT	

**CONTRACT 62673**

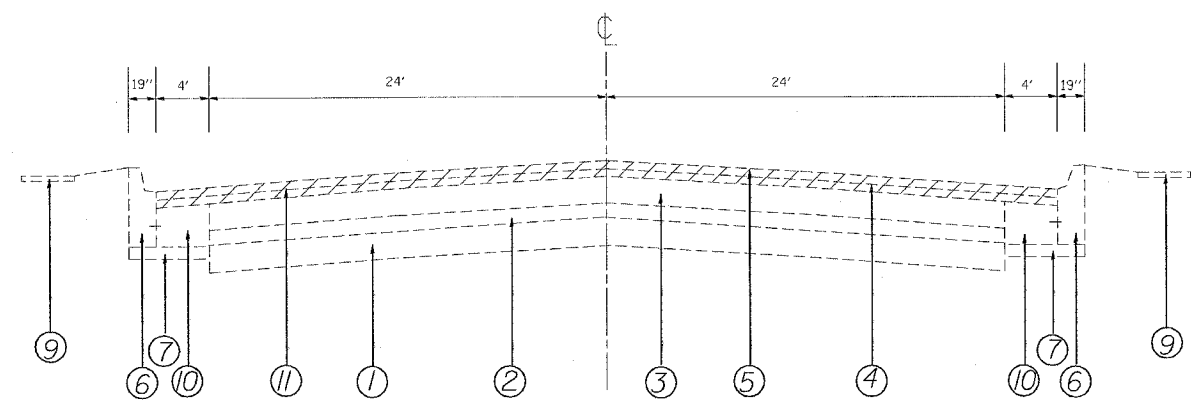


EXISTING TYPICAL CROSS-SECTION  
SOUTHWEST HWY  
STA 22+50 TO STA 83+40

NOTE: B-6.12 CURB & GUTTER ENDS AT STA 83+46  
B-6.24 CURB & GUTTER BEGINS AT STA 83+46

### LEGEND

- ① EXISTING PCC PAVEMENT (9'-7")
- ② EXISTING BITUMINOUS RESURFACING +/- 3"
- ③ EXISTING BITUMINOUS AGGREGATE MIXTURE (6" OVERLAY)
- ④ EXISTING BITUMINOUS CONCRETE BINDER COURSE (1 1/2")
- ⑤ EXISTING BITUMINOUS CONCRETE SURFACE COURSE CLASS 1 (1 1/2")
- ⑥ EXISTING COMBINATION CURB AND GUTTER TYPE B-6J2
- ⑦ EXISTING SUB-BASE GRANULAR MATERIAL, TYPE A (6")
- ⑧ EXISTING CORRUGATED MEDIAN
- ⑨ EXISTING PCC SIDEWALK
- ⑩ EXISTING PCC BASE COURSE WIDENING (9")
- ⑪ PROPOSED BITUMINOUS SURFACE REMOVAL, (2 1/2")
- ⑫ PROPOSED POLYMERIZED LEVELING BINDER (MACHINE METHOD) SUPERPAVE, IL-475, N50 (3/4")
- ⑬ PROPOSED POLYMERIZED BIT. CONCRETE SURFACE COURSE, SUPERPAVE, MIX "F", N90 (1 3/4")



EXISTING TYPICAL CROSS-SECTION  
SOUTHWEST HWY  
STA 83+40 TO STA 84+08

REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION
NAME	DATE	
		TYPICAL SECTIONS

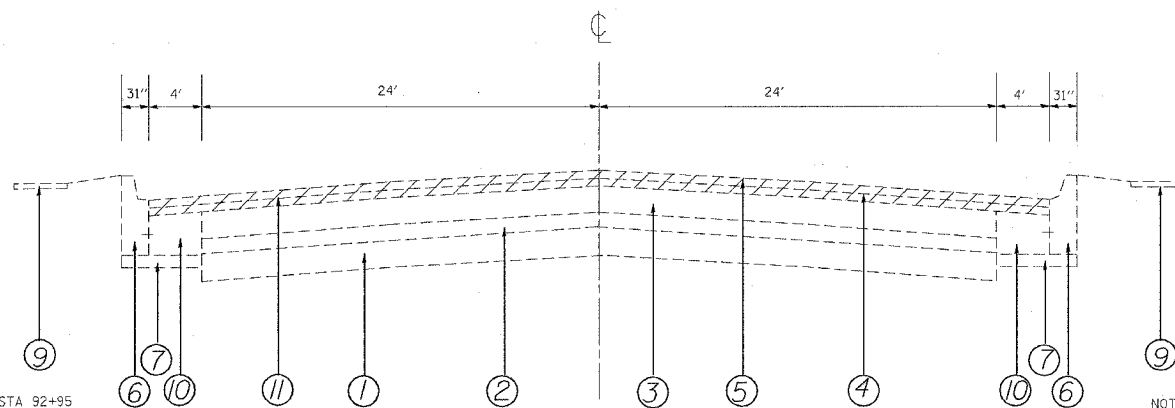
SCALE: VERT. NTS  
HORIZ.  
DATE 3/28/2005

DRAWN BY  
CHECKED BY

11/1/00 03/28/2005

F.A.U. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3578	1314 RS-3	COOK	23	5
STA. _____		TO STA. _____		
FED. ROAD DIST. NO. 1		ILLINOIS FED. AID PROJECT		

CONTRACT 62673



NOTE: PCC SIDEWALK ENDS AT STA 92+95  
PCC SIDEWALK BEGINS AT STA 96+09  
PCC SIDEWALK ENDS AT STA 98+80  
PCC SIDEWALK BEGINS AT STA 14+10  
PCC SIDEWALK ENDS AT STA 15+35

EXISTING TYPICAL CROSS-SECTION  
SOUTHWEST HWY

STA 84+08 TO STA 126+17.5

NOTE: PCC SIDEWALK ENDS AT STA 84+25  
PCC SIDEWALK BEGINS AT STA 105+46  
PCC SIDEWALK ENDS AT STA 106+36  
PCC SIDEWALK BEGINS AT STA 107+56  
PCC SIDEWALK ENDS AT STA 11+08  
PCC SIDEWALK BEGINS AT STA 125+38  
PCC SIDEWALK ENDS AT STA 126+17.5

LEGEND

- ① EXISTING PCC PAVEMENT (9'-7")
- ② EXISTING BITUMINOUS RESURFACING + 3"
- ③ EXISTING BITUMINOUS AGGREGATE MIXTURE (6" OVERLAY)
- ④ EXISTING BITUMINOUS CONCRETE BINDER COURSE (1 1/2")
- ⑤ EXISTING BITUMINOUS CONCRETE SURFACE COURSE CLASS 1 (1 1/2")
- ⑥ EXISTING COMBINATION CURB AND GUTTER TYPE B-6.24
- ⑦ EXISTING SUB-BASE GRANULAR MATERIAL, TYPE A (6")
- ⑧ EXISTING CORRUGATED MEDIAN
- ⑨ EXISTING PCC SIDEWALK
- ⑩ EXISTING PCC BASE COURSE WIDENING (9")
- ⑪ PROPOSED BITUMINOUS SURFACE REMOVAL (2 1/2")
- ⑫ PROPOSED POLYMERIZED LEVELING BINDER (MACHINE METHOD) SUPERPAVE, IL-4.75, N50 (3/4")
- ⑬ PROPOSED POLYMERIZED BIT. CONCRETE SURFACE COURSE, SUPERPAVE, MIX "F", N90 (1 3/4")

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS

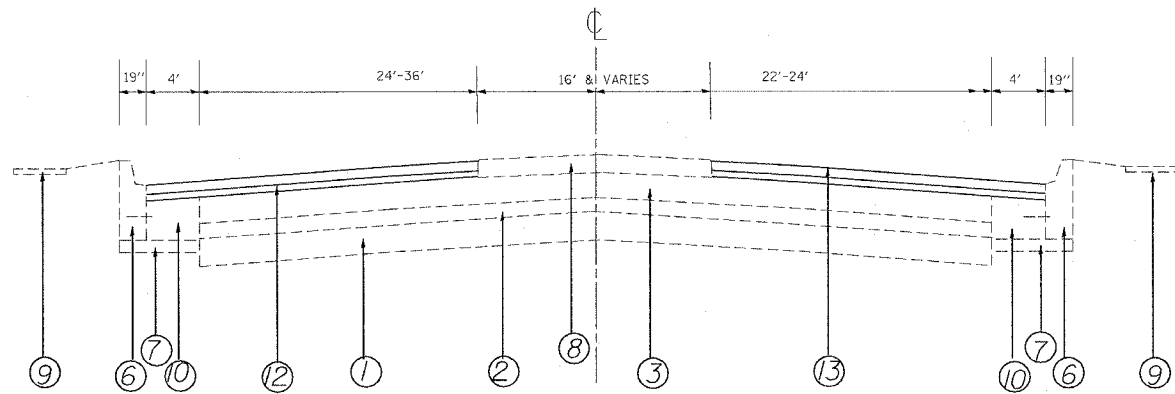
SCALE: VERT. NTS  
HORIZ.  
DATE 3/28/2005

DRAWN BY  
CHECKED BY

3/28/2005 11:43 AM 103604.dwg

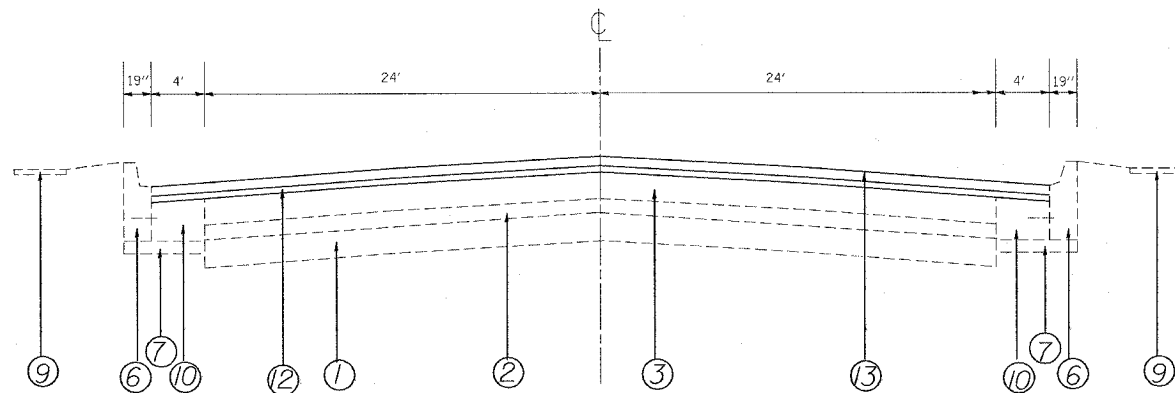
REF-  
REF-  
REF-

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
357B	1314 RS-3	COOK	23	6
STA. _____		TO STA. _____		
FED. ROAD DIST. NO. 1   ILLINOIS   FED. AID PROJECT				
<b>CONTRACT 62673</b>				



PROPOSED TYPICAL CROSS-SECTION  
SOUTHWEST HWY  
STA 22+50 TO STA 83+40

NOTE: B-6.12 CURB & GUTTER ENDS AT STA 83+46  
B-6.24 CURB & GUTTER BEGINS AT STA 83+46



PROPOSED TYPICAL CROSS-SECTION  
SOUTHWEST HWY  
STA 83+40 TO STA 84+08

### LEGEND

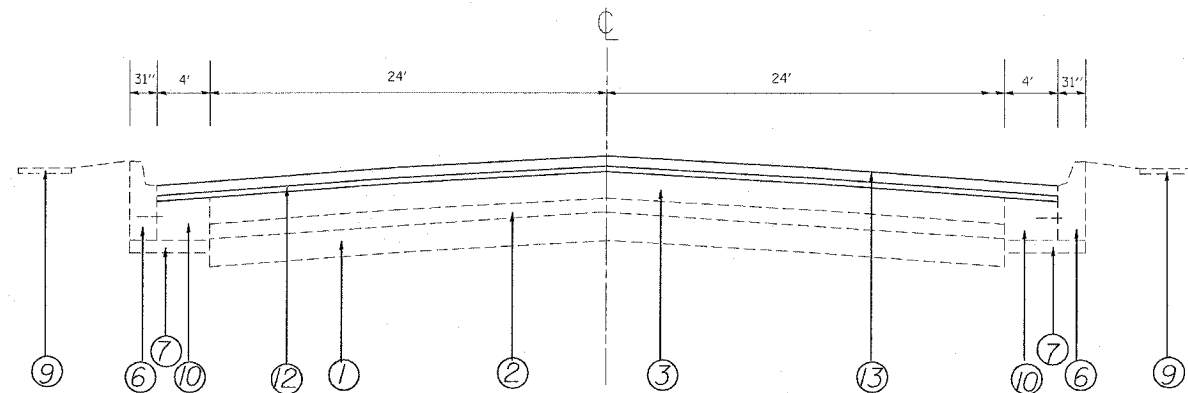
- ① EXISTING PCC PAVEMENT (9'-7')
- ② EXISTING BITUMINOUS RESURFACING -- 3"
- ③ EXISTING BITUMINOUS AGGREGATE MIXTURE (6" OVERLAY)
- ④ EXISTING BITUMINOUS CONCRETE BINDER COURSE (1 1/2")
- ⑤ EXISTING BITUMINOUS CONCRETE SURFACE COURSE CLASS 1 (1 1/2")
- ⑥ EXISTING COMBINATION CURB AND GUTTER TYPE B-6.24
- ⑦ EXISTING SUB-BASE GRANULAR MATERIAL, TYPE A (6")
- ⑧ EXISTING CORRUGATED MEDIAN
- ⑨ EXISTING PCC SIDEWALK
- ⑩ EXISTING PCC BASE COURSE WIDENING (9')
- ⑪ PROPOSED BITUMINOUS SURFACE REMOVAL, (2 1/2")
- ⑫ PROPOSED POLYMERIZED LEVELING BINDER (MACHINE METHOD) SUPERPAVE, IL-475, N50 (3/4")
- ⑬ PROPOSED POLYMERIZED BIT. CONCRETE SURFACE COURSE, SUPERPAVE, MIX "F", N90 (1 3/4")

REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION
NAME	DATE	
		TYPICAL SECTIONS

SCALE: VERT. NTS  
DATE 3/28/2005  
DRAWN BY  
CHECKED BY

F.A.U. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3578	1314 RS-3	COOK	23	7
STA. _____		TO STA. _____		
FED. ROAD DIST. NO. 1   ILLINOIS FED. AID PROJECT				

CONTRACT 62673



NOTE: PCC SIDEWALK ENDS AT STA 92+95  
PCC SIDEWALK BEGINS AT STA 96+09  
PCC SIDEWALK ENDS AT STA 98+80  
PCC SIDEWALK BEGINS AT STA 14+10  
PCC SIDEWALK ENDS AT STA 15+35

PROPOSED TYPICAL CROSS-SECTION  
SOUTHWEST HWY  
STA 84+08 TO STA 126+17.5

NOTE: PCC SIDEWALK ENDS AT STA 84+25  
PCC SIDEWALK BEGINS AT STA 105+46  
PCC SIDEWALK ENDS AT STA 106+36  
PCC SIDEWALK BEGINS AT STA 107+56  
PCC SIDEWALK ENDS AT STA 11+08  
PCC SIDEWALK BEGINS AT STA 125+38  
PCC SIDEWALK ENDS AT STA 126+17.5

### LEGEND

- ① EXISTING PCC PAVEMENT (9'-7")
- ② EXISTING BITUMINOUS RESURFACING +- 3"
- ③ EXISTING BITUMINOUS AGGREGATE MIXTURE (6" OVERLAY)
- ④ EXISTING BITUMINOUS CONCRETE BINDER COURSE (1/2")
- ⑤ EXISTING BITUMINOUS CONCRETE SURFACE COURSE CLASS 1 (1/2")
- ⑥ EXISTING COMBINATION CURB AND GUTTER TYPE B-6.24
- ⑦ EXISTING SUB-BASE GRANULAR MATERIAL, TYPE A (6")
- ⑧ EXISTING CORRUGATED MEDIAN
- ⑨ EXISTING PCC SIDEWALK
- ⑩ EXISTING PCC BASE COURSE WIDENING (9')
- ⑪ PROPOSED BITUMINOUS SURFACE REMOVAL (2 1/2")
- ⑫ PROPOSED POLYMERIZED LEVELING BINDER (MACHINE METHOD) SUPERPAVE, IL-475, N50 (3/4")
- ⑬ PROPOSED POLYMERIZED BIT. CONCRETE SURFACE COURSE, SUPERPAVE, MIX "F", N90 (1 3/4")

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS

SCALE: VERT. NTS  
HORIZ.  
DATE 3/28/2005

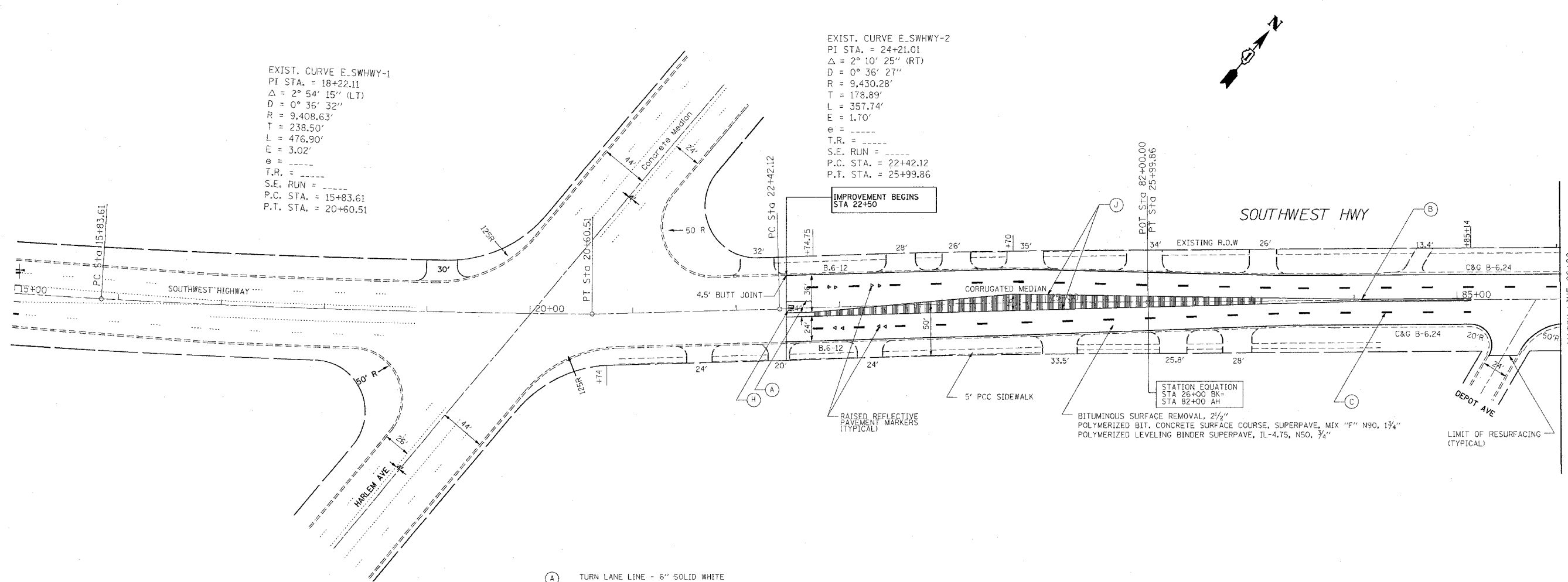
DRAWN BY  
CHECKED BY

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3578	1314 RS-3	COOK	23	8
STA. _____		TO STA. _____		
FED. ROAD DIST. NO. 1		ILLINOIS	FED. AID PROJECT	

CONTRACT 62673

EXIST. CURVE E.SWHWY-1  
 PI STA. = 18+22.11  
 $\Delta = 2^\circ 54' 15''$  (LT)  
 $D = 0^\circ 36' 32''$   
 $R = 9,408.63'$   
 $T = 238.50'$   
 $L = 476.90'$   
 $E = 3.02'$   
 $e = \text{---}$   
 $T.R. = \text{---}$   
 $S.E. RUN = \text{---}$   
 $P.C. STA. = 15+83.61$   
 $P.T. STA. = 20+60.51$

EXIST. CURVE E.SWHWY-2  
 PI STA. = 24+21.01  
 $\Delta = 2^\circ 10' 25''$  (RT)  
 $D = 0^\circ 36' 27''$   
 $R = 9,430.28'$   
 $T = 178.89'$   
 $L = 357.74'$   
 $E = 1.70'$   
 $e = \text{---}$   
 $T.R. = \text{---}$   
 $S.E. RUN = \text{---}$   
 $P.C. STA. = 22+42.12$   
 $P.T. STA. = 25+99.86$



- (A) TURN LANE LINE - 6" SOLID WHITE
- (B) CENTERLINE - 4" SOLID YELLOW (2 @ 11" C-C)
- (C) SKIP-DASH LANE LINE - 4" WHITE (10' DASH & 30' SKIP)
- (D) FIRE LANE - 6" SOLID WHITE (RT. 45 DIAGONALS, 4" C-C)
- (E) STOP & TRANSVERSE LINES 24" SOLID WHITE
- (F) CROSSWALK LINE - 6" SOLID WHITE (2 @ 6' C-C)
- (G) DOTTED LANE LINE - 6" WHITE (2' LINE, 6' SPACE)
- (H) LETTERS & SYMBOLS, 8" WHITE (LEFT & RIGHT TURN ONLY)
- (I) 12" SOLID YELLOW (RT. 45 DIAGONALS)
- (J) MEDIAN EDGE LINE - 4" SOLID YELLOW

NOTE: PAVEMENT MARKINGS (TYPICAL FOR ALL SHEETS)

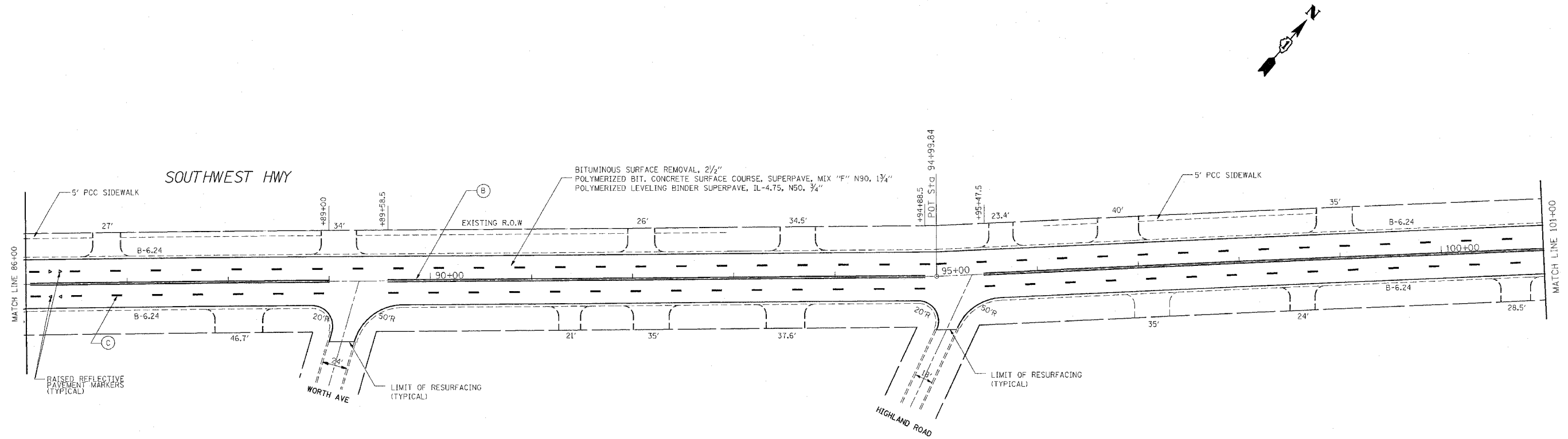
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 SOUTHWEST HWY  
 PROPOSED ROADWAY & PAVEMENT MARKING PLANS  
 VERT. 1" = 50'  
 SCALE: HORIZ.  
 DATE 3/30/2005  
 DRAWN BY  
 CHECKED BY



REF-  
REF-  
REF-

F.A.U. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3578	1314 RS-3	COOK	23	9
STA. _____		TO STA. _____		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				
<b>CONTRACT 62673</b>				



NOTE: PAVEMENT MARKINGS (TYPICAL FOR ALL SHEETS)

- (A) TURN LANE LINE - 6" SOLID WHITE
- (B) CENTERLINE - 4" SOLID YELLOW (2 @ 11" C-C)
- (C) SKIP-DASH LANE LINE - 4" WHITE (10' DASH & 30' SKIP)
- (D) FIRE LANE - 6" SOLID WHITE (RT. 45 DIAGONALS, 4' C-C)
- (E) STOP & TRANSVERSE LINES 24" SOLID WHITE
- (F) CROSSWALK LINE - 6" SOLID WHITE (2 @ 6' C-C)
- (G) DOTTED LANE LINE - 6" WHITE (2' LINE, 6' SPACE)
- (H) LETTERS & SYMBOLS, 8" WHITE (LEFT & RIGHT TURN ONLY)
- (I) 12" SOLID YELLOW (RT. 45 DIAGONALS)
- (J) MEDIAN EDGE LINE - 4" SOLID YELLOW

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

SOUTHWEST HWY

PROPOSED ROADWAY & PAVEMENT MARKING PLANS

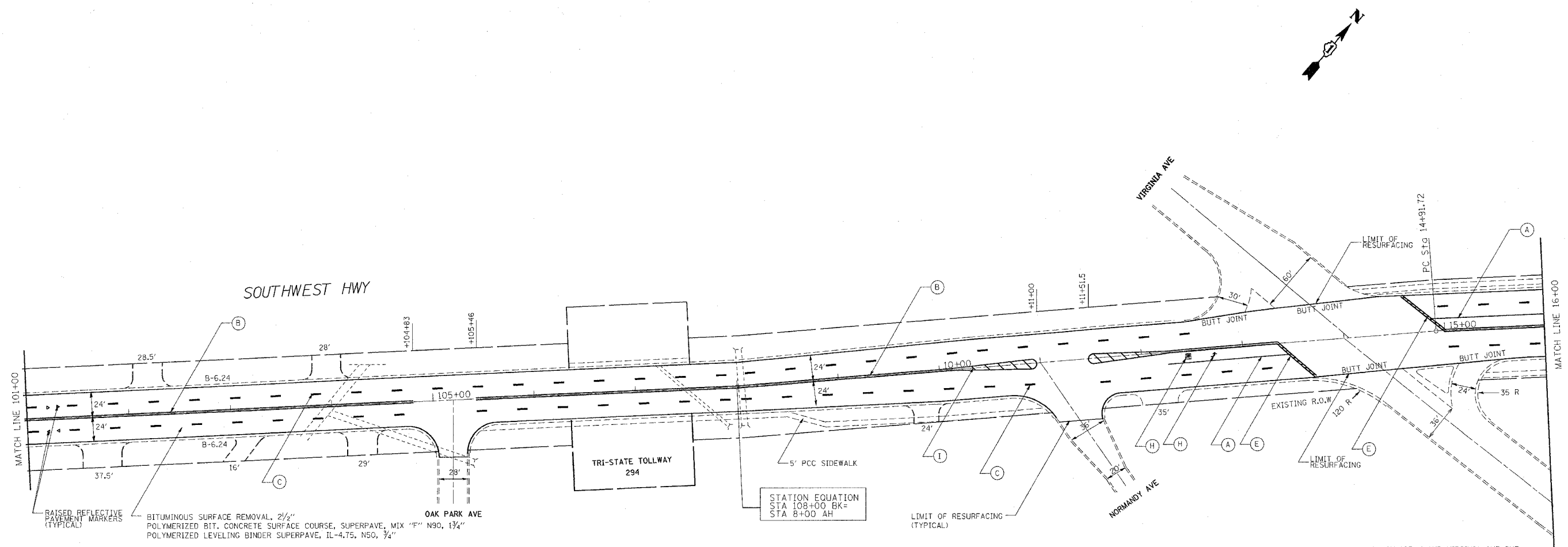
SCALE: VERT. 1" = 50'  
HORIZ. DATE 3/28/2005

DRAWN BY \_\_\_\_\_  
CHECKED BY \_\_\_\_\_

REF-  
REF-  
REF-

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3578	1314 RS-3	COOK	23	10
STA. _____ TO STA. _____		FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT		

CONTRACT 62673



RAISED REFLECTIVE PAVEMENT MARKERS (TYPICAL)  
 BITUMINOUS SURFACE REMOVAL, 2 1/2"  
 POLYMERIZED BIT. CONCRETE SURFACE COURSE, SUPERPAVE, MIX "F" N90, 1 1/4"  
 POLYMERIZED LEVELING BINDER SUPERPAVE, IL-4.75, N50, 3/4"

STATION EQUATION  
 STA 108+00 BK=  
 STA 8+00 AH

NOTE: RADIUS OF RETURN WILL BE OMITTED ON 103+00 AND VIRGINIA AVE DUE TO RECENT RECONSTRUCTION

NOTE: PAVEMENT MARKINGS (TYPICAL FOR ALL SHEETS)

- (A) TURN LANE LINE - 6" SOLID WHITE
- (B) CENTERLINE - 4" SOLID YELLOW (2 @ 11" C-C)
- (C) SKIP-DASH LANE LINE - 4" WHITE (10' DASH & 30' SKIP)
- (D) FIRE LANE - 6" SOLID WHITE (RT. 45 DIAGONALS, 4' C-C)
- (E) STOP & TRANSVERSE LINES 24" SOLID WHITE
- (F) CROSSWALK LINE - 6" SOLID WHITE (2 @ 6' C-C)
- (G) DOTTED LANE LINE - 6" WHITE (2' LINE, 6' SPACE)
- (H) LETTERS & SYMBOLS, 8" WHITE (LEFT & RIGHT TURN ONLY)
- (I) 12" SOLID YELLOW (RT. 45 DIAGONALS)
- (J) MEDIAN EDGE LINE - 4" SOLID YELLOW

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 SOUTHWEST HWY  
 PROPOSED ROADWAY & PAVEMENT MARKING PLANS  
 SCALE: VERT. 1"= 50'  
 HORIZ.  
 DATE 3/28/2005  
 DRAWN BY  
 CHECKED BY

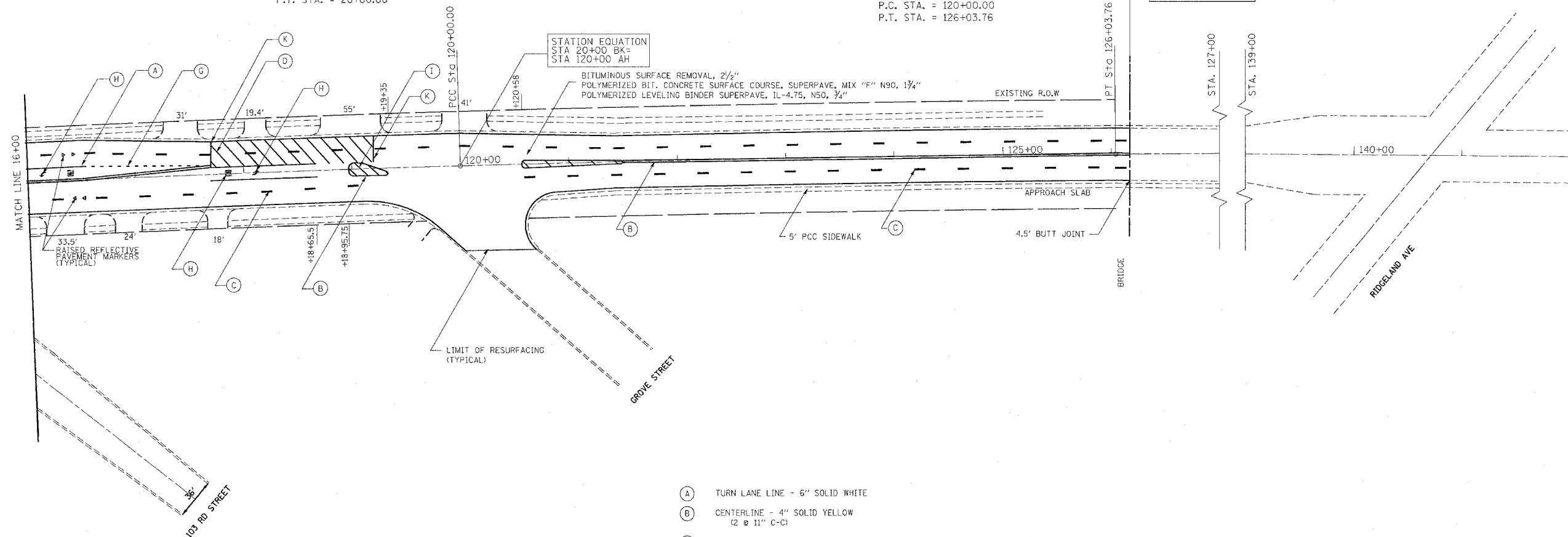
3/28/2005  
 c:\p10\p10\ts\p103604\p103604aa.m32  
 wlgrendp

F.A.U. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3578	1314 RS-3	COOK	23	11
STA. _____		TO STA. _____		
FED. ROAD DIST. NO. 1   ILLINOIS FED. AID PROJECT				

CONTRACT 62673

EXIST. CURVE E.SWHWY-3-1  
 PI STA. = 17+45.87  
 $\Delta = 1^\circ 05' 05''$  (RT)  
 $D = 0^\circ 12' 48''$   
 $R = 26,849.16'$   
 $T = 254.15'$   
 $L = 508.28'$   
 $E = 1.20'$   
 $e = \text{-----}$   
 $T.R. = \text{-----}$   
 $S.E. RUN = \text{-----}$   
 $P.C. STA. = 14+91.72$   
 $P.T. STA. = 20+00.00$

EXIST. CURVE E.SWHWY-3-2  
 PI STA. = 123+01.89  
 $\Delta = 1^\circ 17' 18''$  (RT)  
 $D = 0^\circ 12' 48''$   
 $R = 26,849.16'$   
 $T = 301.89'$   
 $L = 603.76'$   
 $E = 1.70'$   
 $e = \text{-----}$   
 $T.R. = \text{-----}$   
 $S.E. RUN = \text{-----}$   
 $P.C. STA. = 120+00.00$   
 $P.T. STA. = 126+03.76$

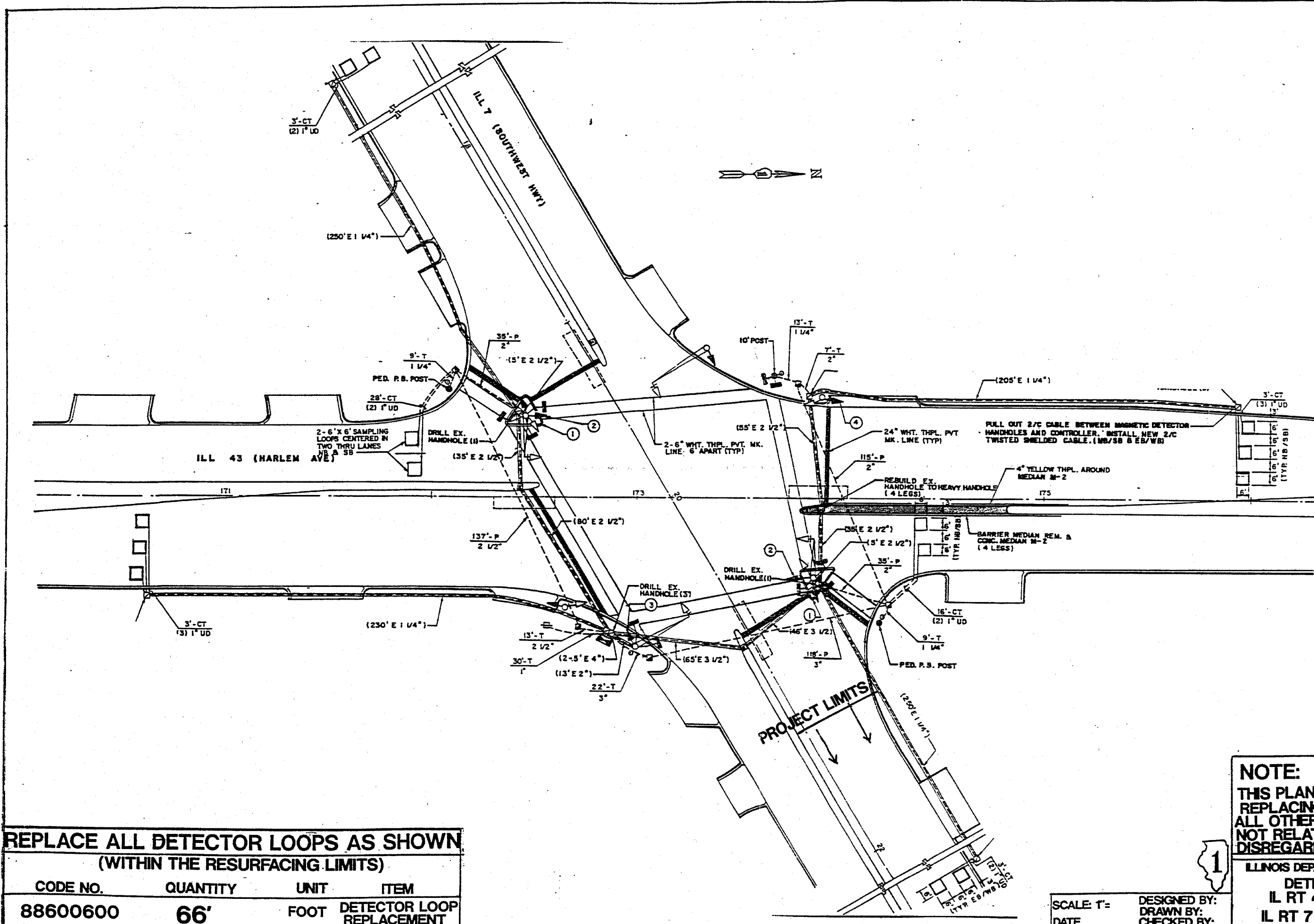


- (A) TURN LANE LINE - 6" SOLID WHITE
- (B) CENTERLINE - 4" SOLID YELLOW (2 @ 11" C-C)
- (C) SKIP-DASH LANE LINE - 4" WHITE (10' DASH & 30' SKIP)
- (D) FIRE LANE - 6" SOLID WHITE (RT, 45 DIAGONALS, 4' C-C)
- (E) STOP & TRANSVERSE LINES 24" SOLID WHITE
- (F) CROSSWALK LINE - 6" SOLID WHITE (2 @ 6' C-C)
- (G) DOTTED LANE LINE - 6" WHITE (2' LINE, 6' SPACE)
- (H) LETTERS & SYMBOLS, 8" WHITE (LEFT & RIGHT TURN ONLY)
- (I) 12" SOLID YELLOW (RT, 45 DIAGONALS)
- (J) MEDIAN EDGE LINE - 4" SOLID YELLOW
- (K) TRANSVERSE LINE, 12" SOLID WHITE

NOTE: PAVEMENT MARKINGS (TYPICAL FOR ALL SHEETS)

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 SOUTHWEST HWY  
 PROPOSED ROADWAY & PAVEMENT MARKING PLANS  
 SCALE: VERT. 1" = 50'  
 HORIZ.  
 DATE 3/28/2005  
 DRAWN BY  
 CHECKED BY



**REPLACE ALL DETECTOR LOOPS AS SHOWN**

(WITHIN THE RESURFACING LIMITS)

CODE NO.	QUANTITY	UNIT	ITEM
88600600	66'	FOOT	DETECTOR LOOP REPLACEMENT

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

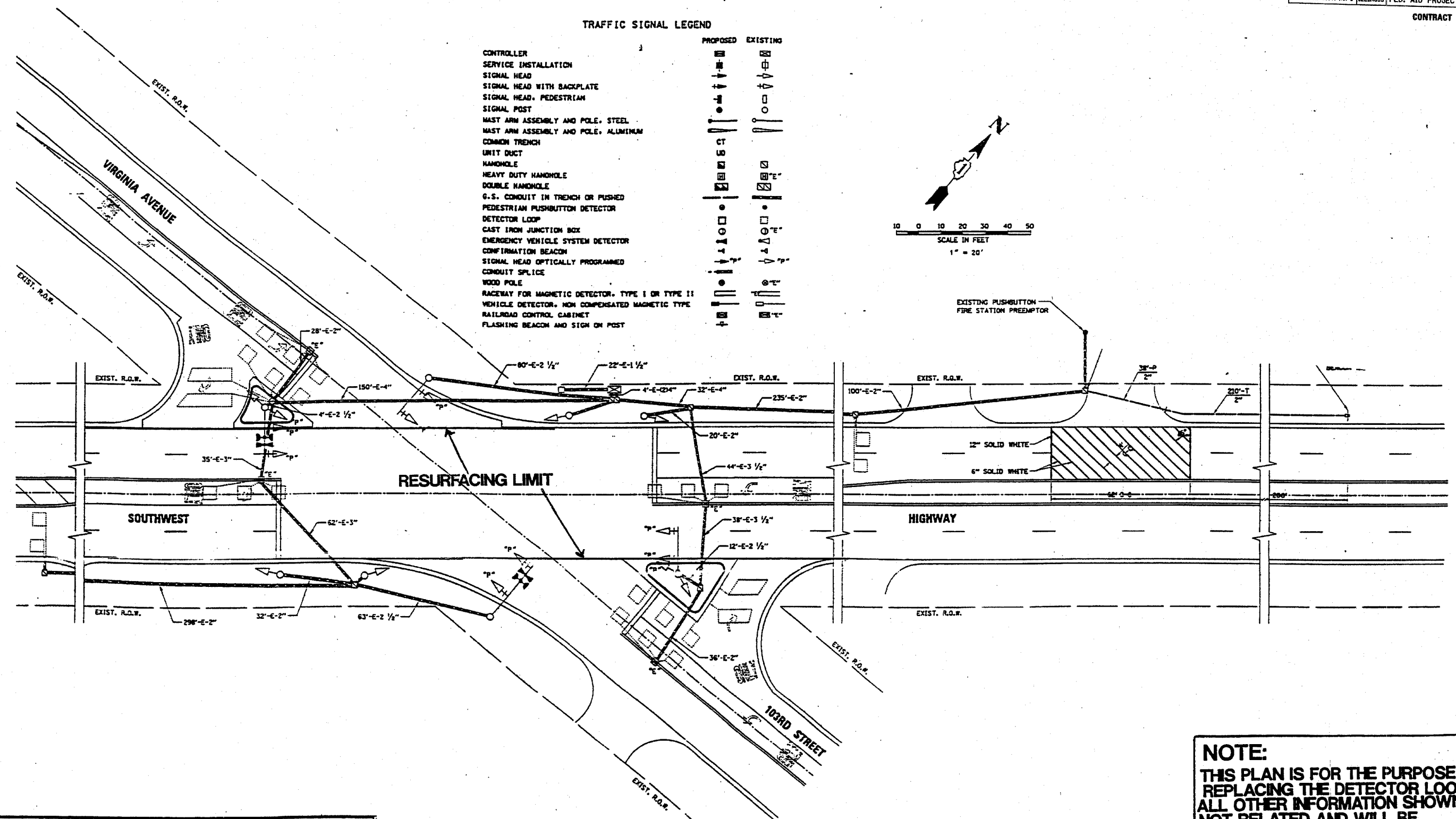
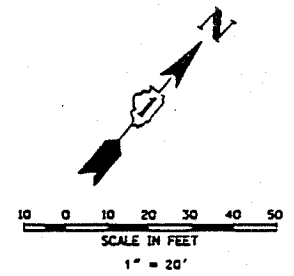


ILLINOIS DEPARTMENT OF TRANSPORTATION  
 DETECTOR LOOPS AT:  
 IL RT 43 (HARLEM AVE) &  
 IL RT 7 (SOUTHWEST HWY)

SCALE: 1" =  
 DATE  
 DESIGNED BY:  
 DRAWN BY:  
 CHECKED BY:

TRAFFIC SIGNAL LEGEND

	PROPOSED	EXISTING
CONTROLLER		
SERVICE INSTALLATION		
SIGNAL HEAD		
SIGNAL HEAD WITH BACKPLATE		
SIGNAL HEAD, PEDESTRIAN		
SIGNAL POST		
MAST ARM ASSEMBLY AND POLE, STEEL		
MAST ARM ASSEMBLY AND POLE, ALUMINUM		
COMMON TRENCH		
UNIT DUCT		
HANDHOLE		
HEAVY DUTY HANDHOLE		
DOUBLE HANDHOLE		
G.S. CONDUIT IN TRENCH OR PUSHED		
PEDESTRIAN PUSHBUTTON DETECTOR		
DETECTOR LOOP		
CAST IRON JUNCTION BOX		
EMERGENCY VEHICLE SYSTEM DETECTOR		
CONFIRMATION BEACON		
SIGNAL HEAD OPTICALLY PROGRAMMED		
CONDUIT SPLICE		
WOOD POLE		
RACEWAY FOR MAGNETIC DETECTOR, TYPE I OR TYPE II		
VEHICLE DETECTOR, NON COMPENSATED MAGNETIC TYPE		
RAILROAD CONTROL CABINET		
FLASHING BEACON AND SIGN ON POST		



<b>REPLACE ALL DETECTOR LOOPS AS SHOWN</b>			
<b>(WITHIN THE RESURFACING LIMITS)</b>			
CODE NO.	QUANTITY	UNIT	ITEM
88600600	360	FOOT	DETECTOR LOOP REPLACEMENT

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

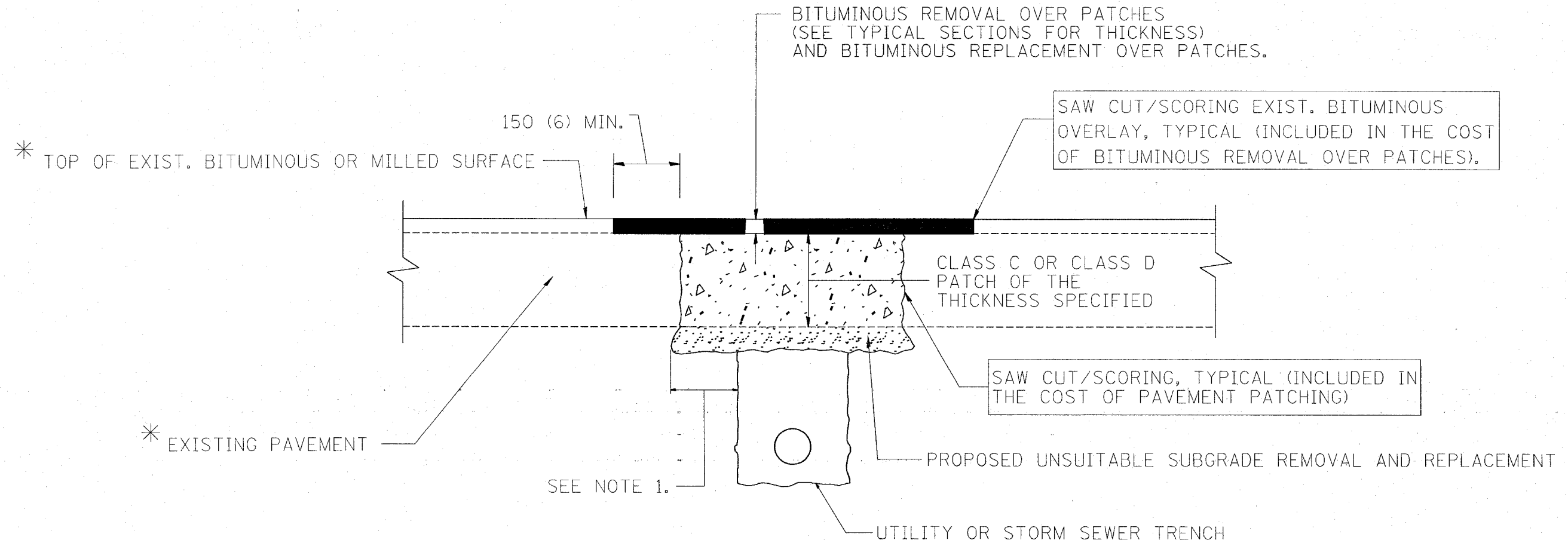


ILLINOIS DEPARTMENT OF TRANSPORTATION  
 DETECTOR LOOPS AT:  
 IL RT 7 (SOUTHWEST HWY) &  
 103RD STREET

SCALE: 1" = 20'  
 DATE 11-3-03  
 DESIGNED BY:  
 DRAWN BY:  
 CHECKED BY:

F.A.J. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
357B	1314 RS-3	COOK	23	14
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

62673



\* SEE TYPICAL SECTIONS FOR THICKNESS AND MATERIALS

NOTES:

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

SEQUENCE OF CONSTRUCTION

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

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

REVISIONS	
NAME	DATE
R. SHAH	10/25/94
R. SHAH	01/14/95
R. SHAH	03/23/95
R. SHAH	04/24/95
A. HOUSEH	03/15/96
A. ABBAS	03/21/97
A. ABBAS	01/20/98
ART ABBAS	04/27/98

ILLINOIS DEPARTMENT OF TRANSPORTATION

PAVEMENT PATCHING FOR BITUMINOUS SURFACED PAVEMENT

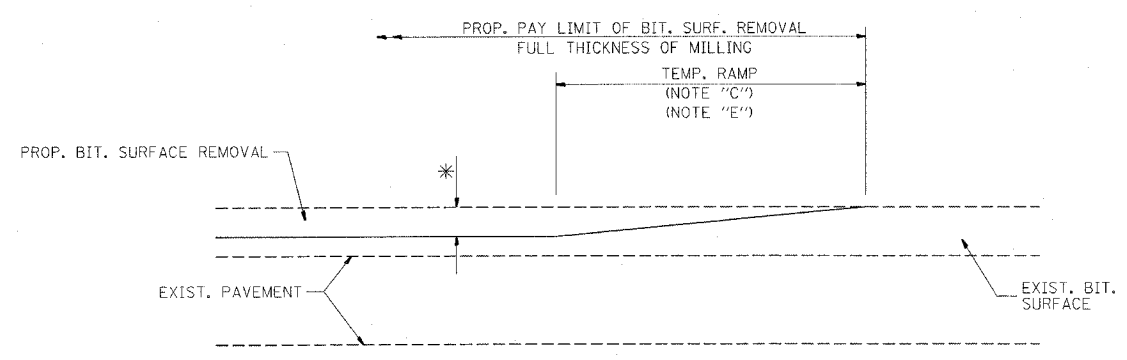
SCALE: VERT. HORIZ. DATE 3/28/2005

DRAWN BY CHECKED BY

BD400-04 (BD-22) REVISION DATE: 04/27/98

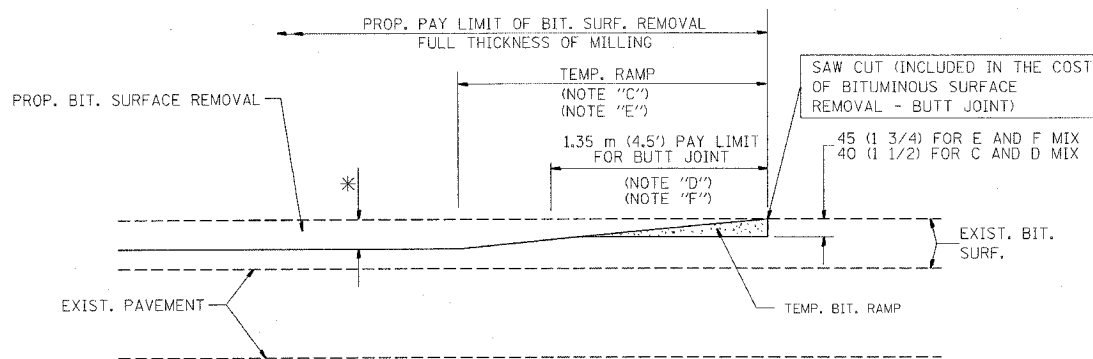
FAU RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3578	1314 RS-3	COOK	23	15
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

62673



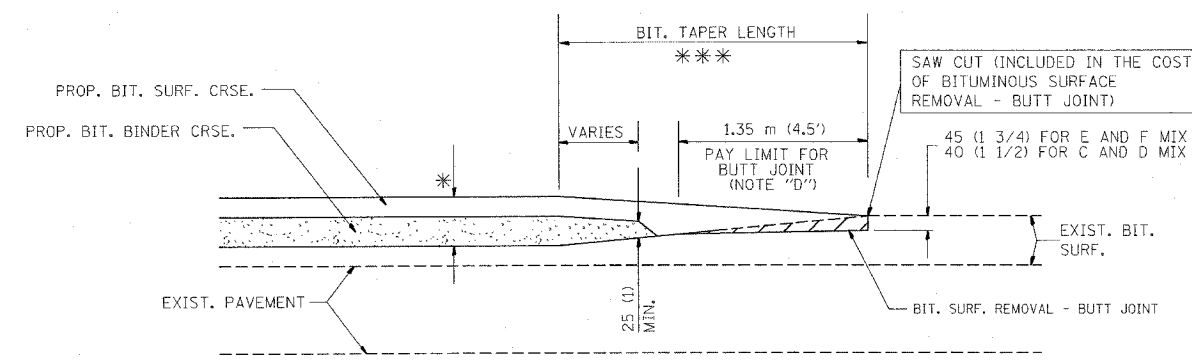
MILLED TEMPORARY RAMP  
(FOR BUTT JOINT AND BIT. TAPER SEE DETAIL BELOW)

OPTION 1



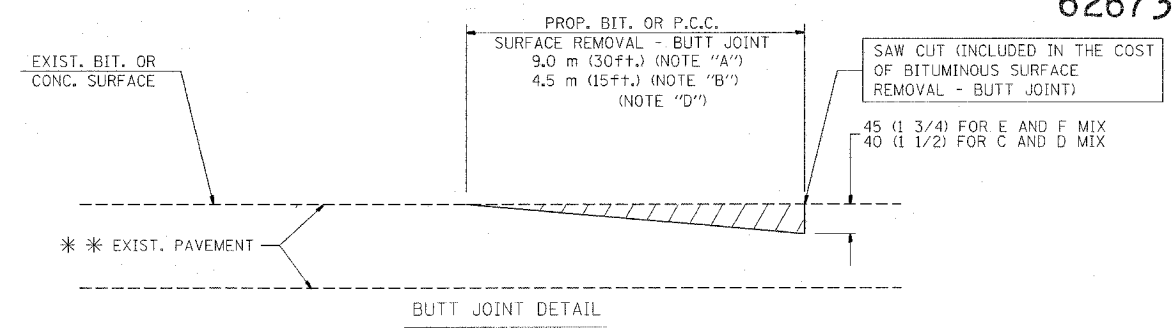
BITUMINOUS CONSTRUCTED TEMPORARY RAMP  
(FOR BUTT JOINT AND BIT. TAPER SEE DETAIL BELOW)

OPTION 2  
TYPICAL TEMPORARY RAMP

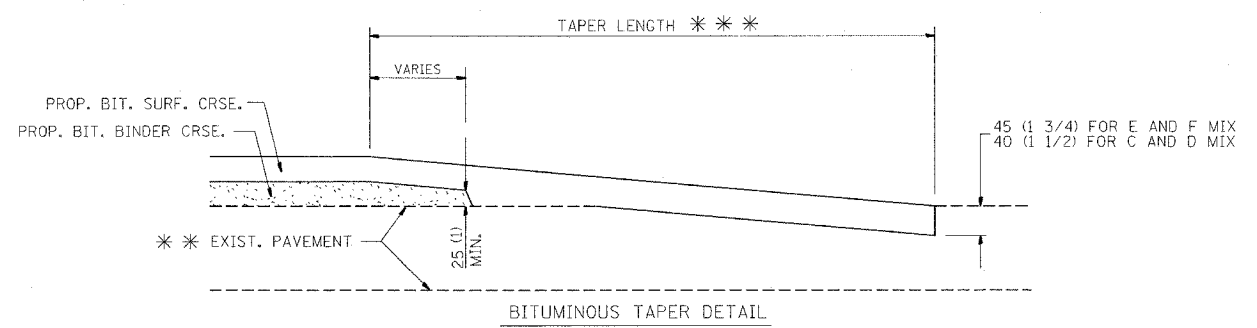


BUTT JOINT AND BITUMINOUS TAPER

TYPICAL BUTT JOINT AND BITUMINOUS TAPER  
FOR MILLING AND RESURFACING



BUTT JOINT DETAIL



BITUMINOUS TAPER DETAIL

TYPICAL BUTT JOINT AND BITUMINOUS TAPER  
FOR RESURFACING ONLY

\*\*\* PC CONCRETE, BITUMINOUS OR BITUMINOUS 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 BITUMINOUS SURFACE.
- D: THE BUTT JOINT SHALL BE CONSTRUCTED IMMEDIATELY PRIOR TO PLACING THE PROPOSED BITUMINOUS COURSES.
- E: TAPER THE TEMP. RAMP AT A RATE OF 900 (3 ft.) PER INCH OF MILLING THICKNESS.
- F: INSTALLATION AND REMOVAL OF THE 1.35 m (4.5') TEMP. BIT. RAMP WILL BE PAID AS "BITUMINOUS SURFACE REMOVAL - BUTT JOINT".
- G: SEE ARTICLE 406.18 AND 406.24 OF THE STANDARD SPECIFICATIONS FOR "BITUMINOUS AND PCC SURFACE REMOVAL, BUTT JOINT".
- \* SEE TYPICAL SECTIONS FOR MILLING THICKNESS.
- \*\*\* 6.1 m (20') PER 25 (1) RESURFACING (NOTE "A")  
3.0 m (10') PER 25 (1) RESURFACING (NOTE "B")

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

BASIS OF PAYMENT:

THE BUTT JOINT WILL BE PAID FOR PER SQUARE METER (SQUARE YARD.) AS "BITUMINOUS SURFACE REMOVAL - BUTT JOINT" OR AS "PORTLAND CEMENT CONCRETE SURFACE REMOVAL - BUTT JOINT".

REVISIONS	
NAME	DATE
M. DE YONG	6-13-90
M. DE YONG	7-3-90
M. DE YONG	3-27-92
R. SHAH	09/09/94
R. SHAH	10/25/94
A. ABBAS	03/21/97
M. GOMEZ	04/06/01

ILLINOIS DEPARTMENT OF TRANSPORTATION

BUTT JOINT AND BITUMINOUS TAPER DETAILS

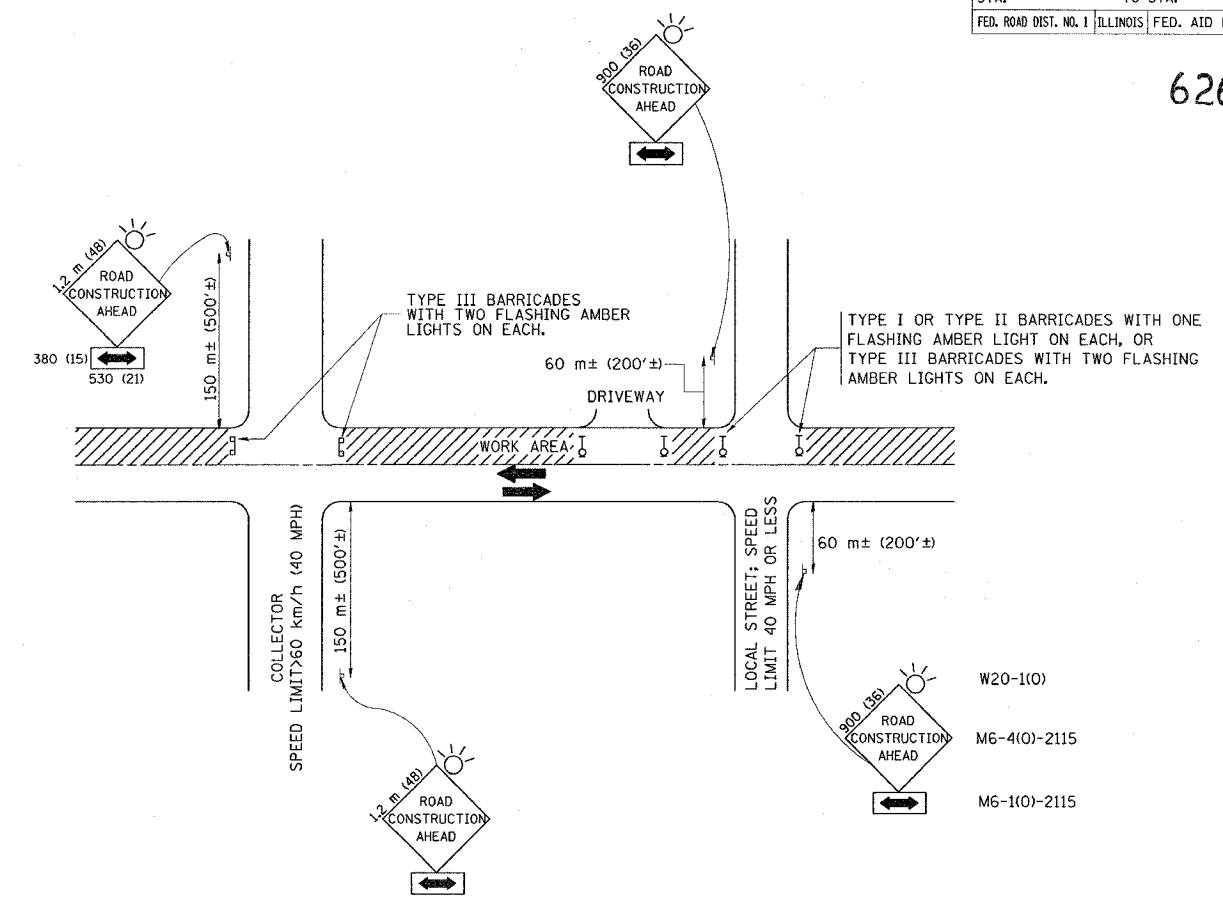
SCALE: NONE  
DATE PLOTTED: 3/28/2005

DRAWN BY  
CHECKED BY  
B0400-05 (VI-B032)

REVISION DATE: 04/06/01

F.A.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3578	1314 R5-3	COOK	23	16
STA.		TO STA.		
FED. ROAD DIST. NO. 1		ILLINOIS FED. AID PROJECT		

62673



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

NOTES:

- A. FOR NO LANE RESTRICTION ON THE SIDE ROAD OR DRIVEWAYS**
- SIDE ROAD WITH A SPEED LIMIT OF 60 km/h (40 MPH) OR LESS AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
    - ONE **ROAD CONSTRUCTION AHEAD** SIGN 900x900 (36x36) WITH A FLASHER AND FLAG MOUNTED ON IT APPROXIMATELY 60 m (200') IN ADVANCE OF THE MAIN ROUTE.
    - THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE I, TYPE II OR TYPE III BARRICADES, 1/3 OF THE CROSS SECTION OF THE CLOSED PORTION.
  - SIDE ROAD WITH A SPEED LIMIT GREATER THAN 60 km/h (40 MPH) AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
    - ONE **ROAD CONSTRUCTION AHEAD** SIGN 1.2 m x 1.2 m (48x48) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 150 m (500') IN ADVANCE OF THE MAIN ROUTE.
    - THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE III BARRICADES, 1/2 OF THE CROSS SECTION OF THE CLOSED PORTION.
  - WHEN THE SIDE ROAD LIES BETWEEN THE BEGINNING OF THE MAINLINE SIGNING AND THE WORK ZONE, A SINGLE HEADED ARROW (M6-1) SHALL BE USED IN LIEU OF THE DOUBLE HEADED ARROW (M6-4).
- B. FOR A LANE CLOSURE ON A SIDE ROAD OR DRIVEWAY:**
- USE APPLICABLE PORTIONS OF THE TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES (STD. 701501, STD. 701606 OR THE APPROPRIATE STANDARD). THE SPACING OF SIGNS AND BARRICADES SHALL BE ADJUSTED FOR FIELD CONDITIONS AS DIRECTED BY THE ENGINEER. THE DIRECTIONAL ARROW SHALL BE COVERED OR REMOVED WHEN NO LONGER CONSISTENT WITH THE SIDE ROAD LANE CLOSURE.
- C. ADVANCE WARNING SIGNS ARE TO BE OMITTED ON DRIVEWAY UNLESS OTHERWISE NOTED.**
- D. THE TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS SHALL BE INCIDENTAL TO THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.**

REVISIONS	
NAME	DATE
LHA	6/89
T. RAMMACHER	09/08/94
J. OBERLE	10/18/95
A. HOUSEH	03/06/96
A. HOUSEH	10/15/96
T. RAMMACHER	01/06/00

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS**

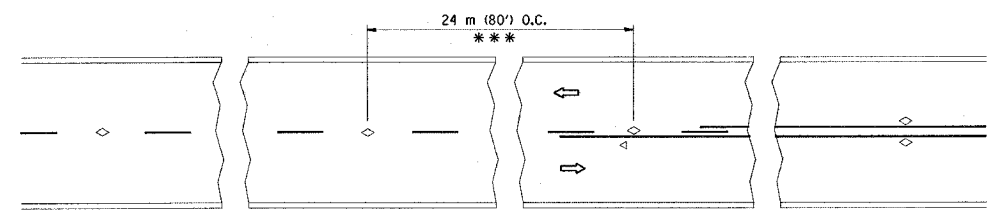
SCALE: VERT. \_\_\_\_\_  
 HORIZ. \_\_\_\_\_  
 DATE 3/28/2005

DRAWN BY \_\_\_\_\_  
 CHECKED BY \_\_\_\_\_  
 TC-10

REVISION DATE: 01/06/00

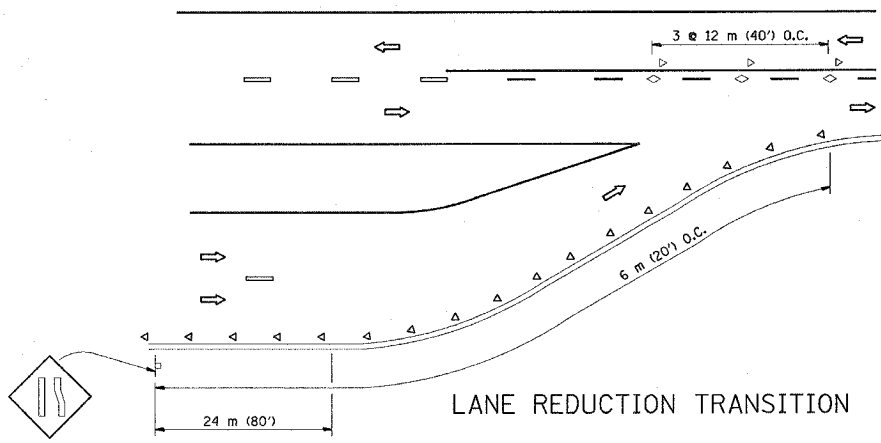


62673

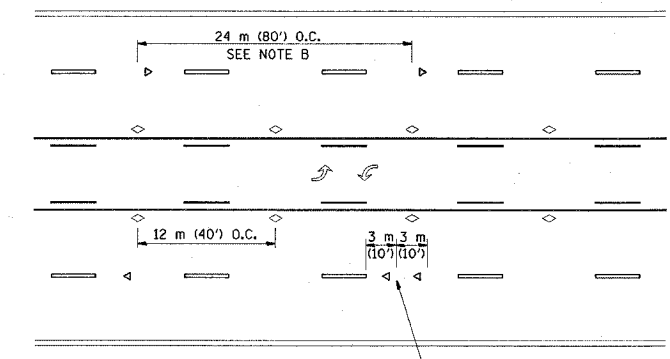


\*\*\* REDUCE TO 12 m (40') O.C. ON CURVES WITH POSTED OR ADVISORY SPEED 70 km/h (45 M.P.H.) OR LESS.

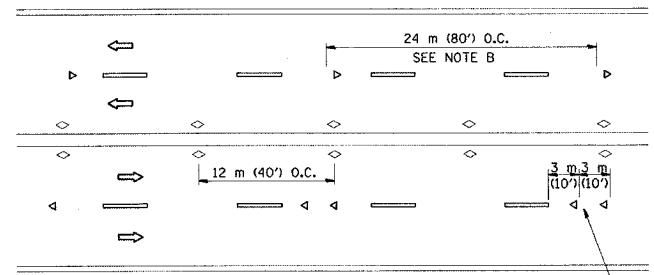
TWO-LANE/TWO-WAY



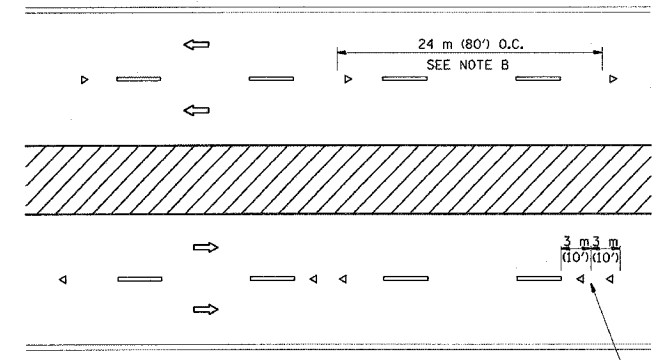
LANE REDUCTION TRANSITION



TWO-WAY LEFT TURN



MULTI-LANE/UNDIVIDED



MULTI-LANE/DIVIDED

GENERAL NOTES

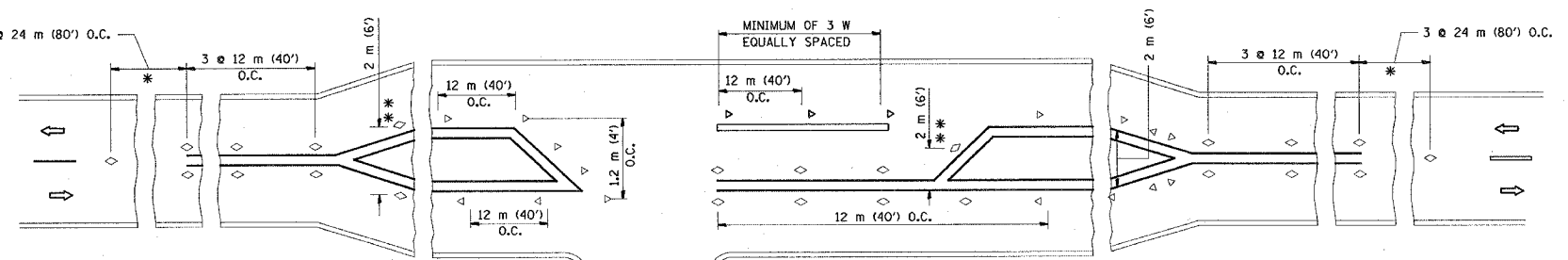
1. MARKERS USED WITH DASHED LINES SHALL BE CENTERED IN THE GAP BETWEEN SEGMENTS.
2. MARKERS USED ADJACENT TO SOLID LINES SHALL BE OFFSET 50 TO 75 (2 TO 3) TOWARD TRAFFIC AS SHOWN.
3. MARKERS THROUGH TANGENTS LESS THAN 150 m (500') IN LENGTH BETWEEN CURVES SHALL BE INSTALLED AT THE LESSER OF THE TWO CURVE SPACINGS.

SYMBOLS

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

LANE MARKER NOTES

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



LEFT TURN

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

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

REVISIONS	
NAME	DATE
T. RAMMACHER	09-19-94
T. RAMMACHER	03-12-99
T. RAMMACHER	01-06-00

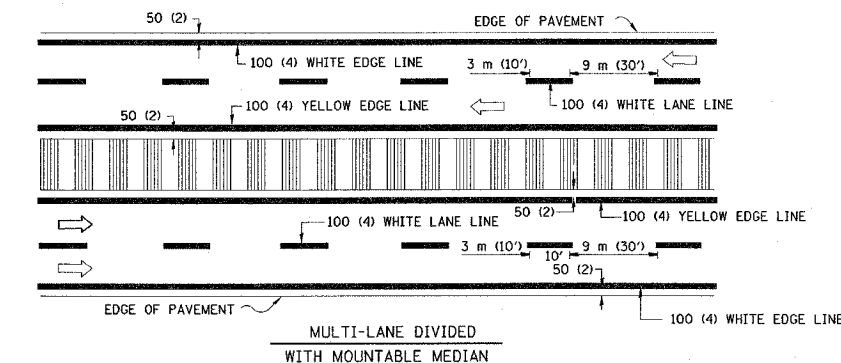
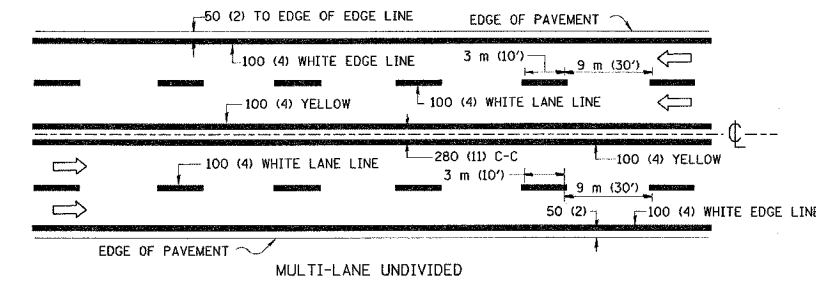
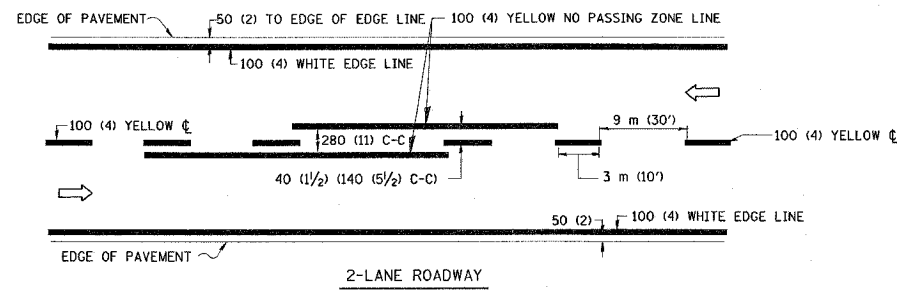
ILLINOIS DEPARTMENT OF TRANSPORTATION  
 TYPICAL APPLICATIONS  
 RAISED REFLECTIVE PAVEMENT MARKERS  
 (SNOW-PLOW RESISTANT)

SCALE: NONE  
 DATE: 3/28/2005  
 DRAWN BY CADD  
 CHECKED BY TC-11

REVISION DATE: 01/06/00

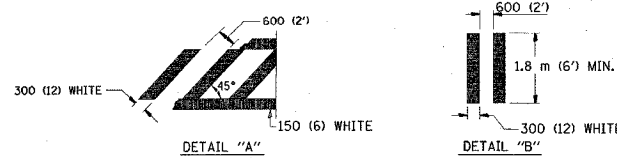
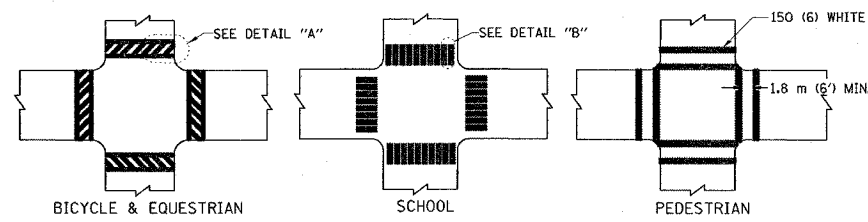
3/28/2005 3:17:03 PM C:\Users\wllgreendp\Documents\3578\1314 RS-3\17.dgn

62673

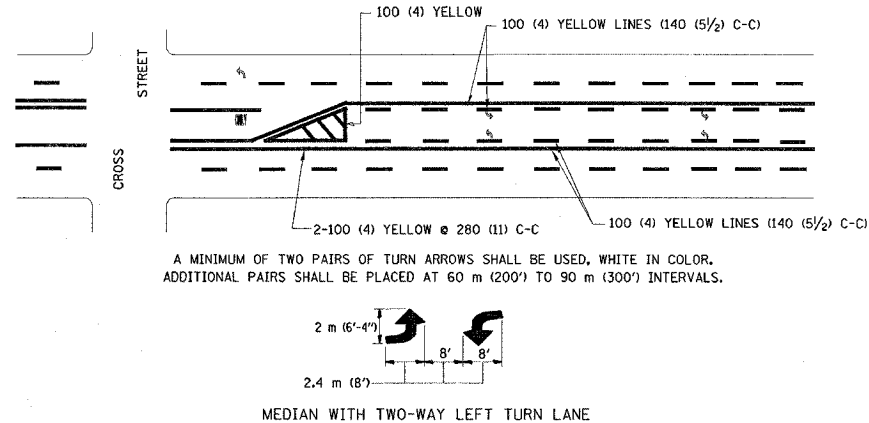
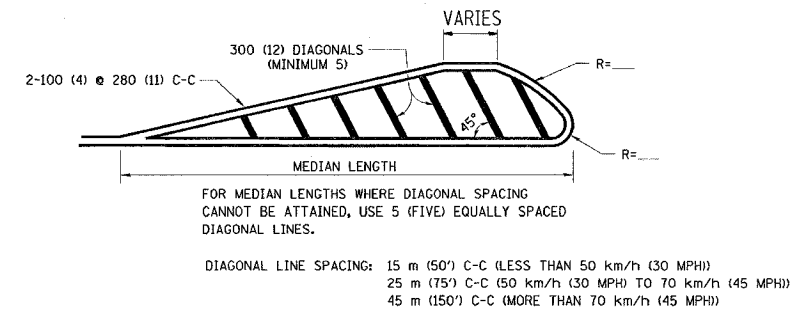
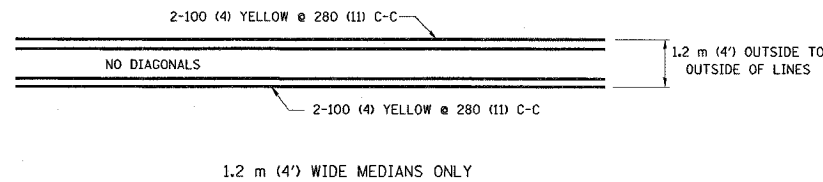


NOTE: MEDIANS WITH BARRIER CURB DO NOT REQUIRE AN EDGE LINE

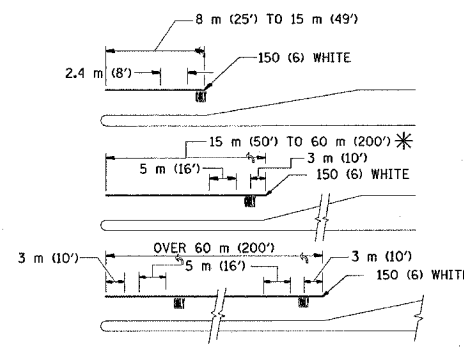
TYPICAL LANE AND EDGE LINE MARKING



TYPICAL CROSSWALK MARKING



TYPICAL PAINTED MEDIAN MARKING

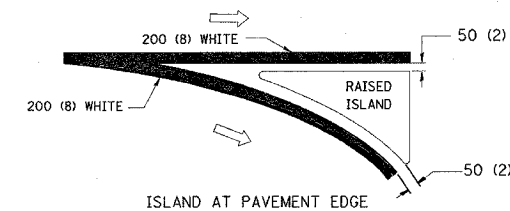
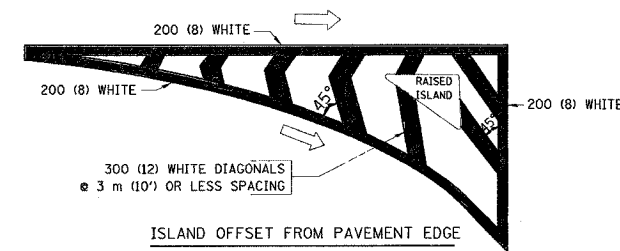


FULL SIZE LETTERS 2.4 m (8') AND ARROWS SHALL BE USED.  
AREA = 1.5 m<sup>2</sup> (15.6 SQ. FT.) ONLY AREA = 1.9 m<sup>2</sup> (20.8 SQ. FT.)

\* TURN LANES IN EXCESS OF 120 m (400') 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	100 (4)	SKIP-DASH	YELLOW	3 m (10') LINE WITH 9 m (30') SPACE
CENTERLINE ON MULTI-LANE UNDIVIDED PAVEMENT	2 @ 100 (4)	SOLID	YELLOW	280 (11) C-C
NO PASSING ZONE LINES: FOR ONE DIRECTION FOR BOTH DIRECTIONS	100 (4) 2 @ 100 (4)	SOLID SOLID	YELLOW YELLOW	140 (5 1/2) C-C FROM SKIP-DASH CENTERLINE 280 (11) C-C OMIT SKIP-DASH CENTERLINE BETWEEN
LANE LINES	100 (4) 125 (5) ON FREEWAYS	SKIP-DASH SKIP-DASH	WHITE WHITE	3 m (10') LINE WITH 9 m (30') SPACE
DOTTED LINES (EXTENSIONS OF CENTER, LANE OR TURN LANE MARKINGS)	SAME AS LINE BEING EXTENDED	SKIP-DASH	SAME AS LINE BEING EXTENDED	600 (2') LINE WITH 1.8 m (6') SPACE
EDGE LINES	100 (4)	SOLID	YELLOW-LEFT WHITE-RIGHT	OUTLINE MOUNTABLE MEDIANS IN YELLOW; EDGE LINES ARE NOT USED NEXT TO BARRIER CURB
TURN LANE MARKINGS	150 (6) LINE; FULL SIZE LETTERS & SYMBOLS (2.4 m (8'))	SOLID	WHITE	SEE TYPICAL TURN LANE MARKING DETAIL
TWO WAY LEFT TURN MARKING	2 @ 100 (4) EACH DIRECTION 2.4 m (8') LEFT ARROW	SKIP-DASH AND SOLID IN PAIRS	YELLOW WHITE	3 m (10') LINE WITH 9 m (30') SPACE FOR SKIP-DASH; 140 (5 1/2) 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 @ 150 (6) 300 (12) @ 45° 300 (12) @ 90°	SOLID SOLID SOLID	WHITE WHITE WHITE	NOT LESS THAN 1.8 m (6') APART 600 (2') APART 600 (2') APART SEE TYPICAL CROSSWALK MARKING DETAILS.
STOP LINES	600 (24)	SOLID	WHITE	PLACE 1.2 m (4') IN ADVANCE OF AND PARALLEL TO CROSSWALK, IF PRESENT. OTHERWISE, PLACE AT DESIRED STOPPING POINT, PARALLEL TO CROSSROAD CENTERLINE, WHERE POSSIBLE
PAINTED MEDIANS	2 @ 100 (4) WITH 300 (12) DIAGONALS @ 45° NO DIAGONALS USED FOR 1.2 m (4') WIDE MEDIANS	SOLID	YELLOW; TWO WAY TRAFFIC WHITE; ONE WAY TRAFFIC	280 (11) C-C FOR THE DOUBLE LINE SEE TYPICAL PAINTED MEDIAN MARKING.
GORE MARKING AND CHANNELIZING LINES	200 (8) WITH 300 (12) DIAGONALS @ 45°	SOLID	WHITE	DIAGONALS: 4.5 m (15') C-C (LESS THAN 50 km/h (30 MPH)) 6 m (20') C-C (50 km/h (30 MPH) TO 70 km/h (45 MPH)) 9 m (30') C-C (OVER 70 km/h (45 MPH))
RAILROAD CROSSING	600 (24) TRANSVERSE LINES; "RR" IS 1.8 m (6') LETTERS; 400 (16) LINE FOR "X"	SOLID	WHITE	SEE STATE STANDARD 780001 AREA OF: "R"=0.33m <sup>2</sup> (3.6 SQ. FT.) EACH "X"=5.0 m <sup>2</sup> (54.0 SQ. FT.)
SHOULDER DIAGONALS	300 (12) @ 45°	SOLID	WHITE - RIGHT YELLOW - LEFT	15 m (50') C-C (LESS THAN 50 km/h (30 MPH)) 25 m (75') C-C (50 km/h (30 MPH) TO 70 km/h (45 MPH)) 45 m (150') C-C (OVER 70 km/h (45 MPH))

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

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

ILLINOIS DEPARTMENT OF TRANSPORTATION  
DISTRICT ONE  
TYPICAL PAVEMENT  
MARKINGS

REVISIONS	
NAME	DATE
EVERS	03-19-90
T. RAMMACHER	10-27-94
ALEX HOUSEH	10-09-96
ALEX HOUSEH	10-17-96
T. RAMMACHER	01-06-00

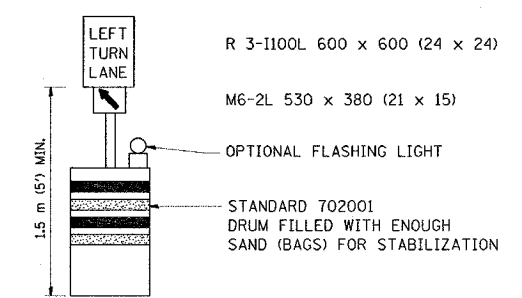
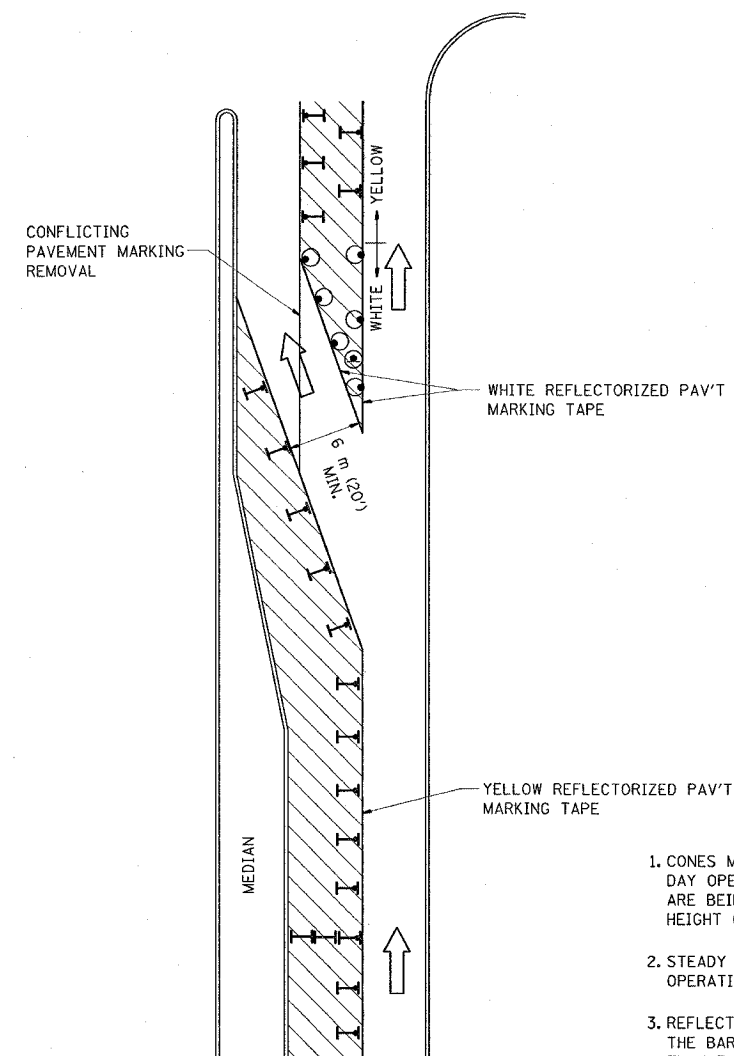
SCALE: NONE  
DATE 3/28/2005

DRAWN BY CADD  
CHECKED BY TC-13

REVISION DATE: 01/06/00

FAU RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3578	1314 RS-3	COOK	23	19
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		


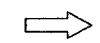




62673



**GENERAL NOTES**

1. CONES MAY BE SUBSTITUTED FOR BARRICADES OR DRUMS AT HALF THE SPACING DURING DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 710 (28) IN HEIGHT. WHEN CONES ARE BEING USED, THE "LEFT TURN LANE" SIGN MAY BE SKID MOUNTED AT A MINIMUM HEIGHT OF 1.5 m (5').
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" R3-100 600 x 600 (24 x 24) AND M6-2R 530 x 380 (21 x 15) 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 millimeters (inches) unless otherwise shown.

ILLINOIS DEPARTMENT OF TRANSPORTATION  
TRAFFIC CONTROL AND PROTECTION  
AT TURN BAYS  
(TO REMAIN OPEN TO TRAFFIC)

REVISIONS	
NAME	DATE
T. RAMMACHER	09/08/94
A. HOUSEH	11/07/95
A. HOUSEH	10/12/96
T. RAMMACHER	01/06/00

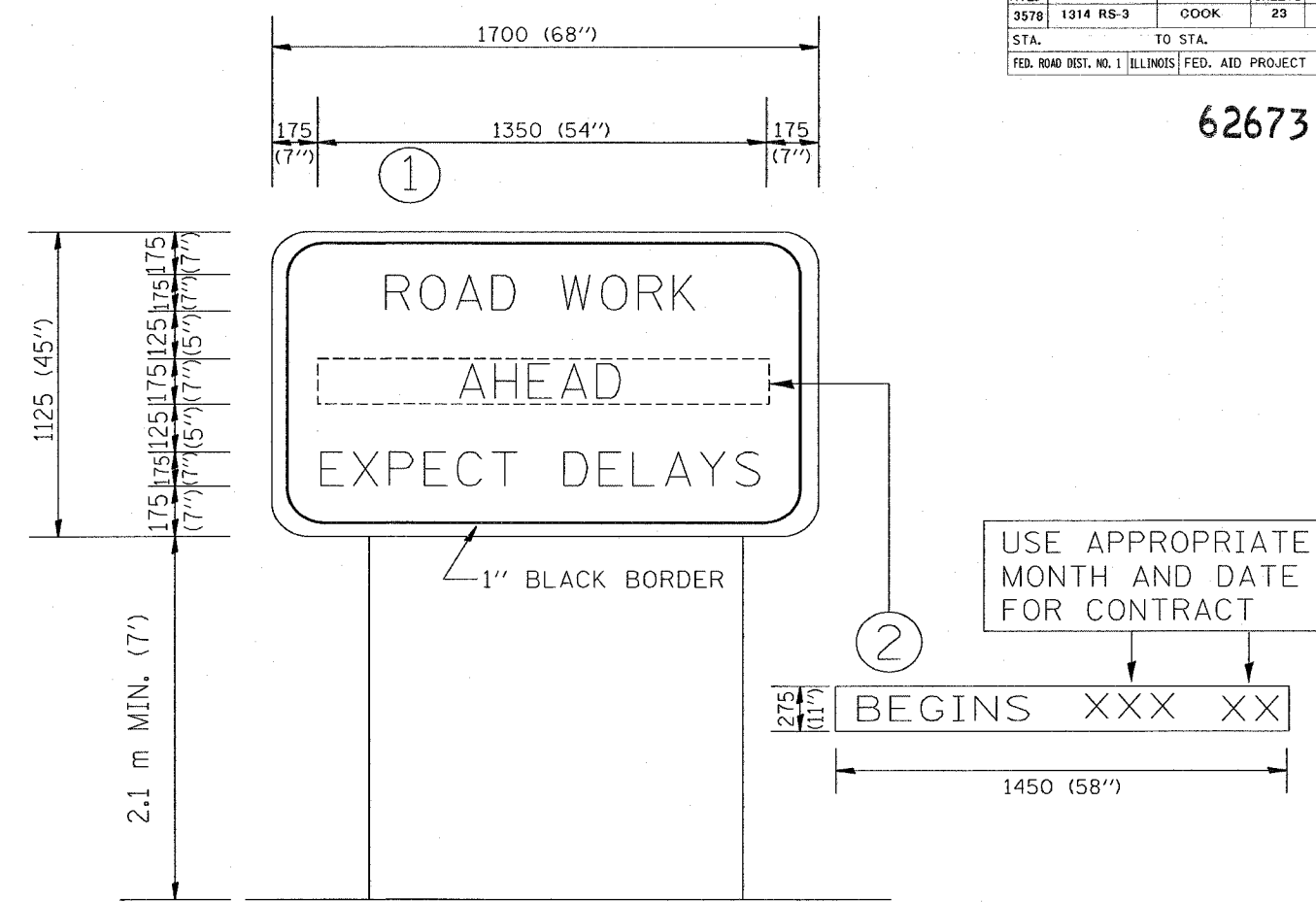
SCALE: NONE  
DATE: 3/28/2005

DRAWN BY  
CHECKED BY LHA  
TC-14

REVISION DATE: 01/06/00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3578	1314 RS-3	COOK	23	20
STA.		TO STA.		
FED. ROAD DIST. NO. 1		ILLINOIS	FED. AID PROJECT	

62673



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 2.3 SQ. M. (25.70 SQ. FT.)

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

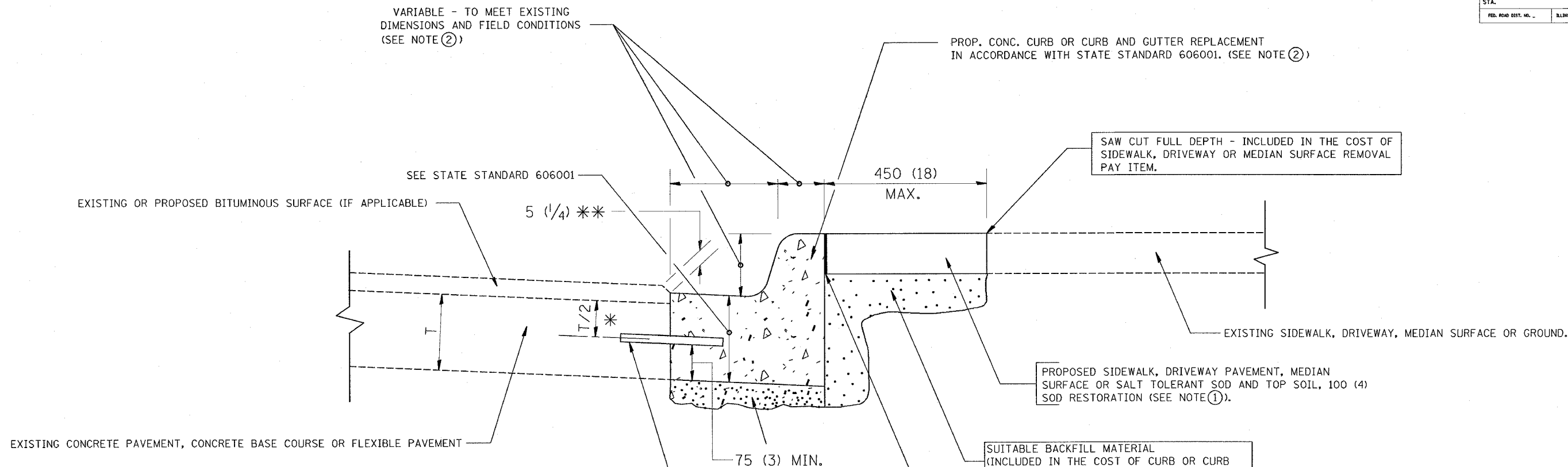
REVISIONS	
NAME	DATE
R. MIRS	9-15-97
R. MIRS	12-11-97
T. RAMMACHER	2-2-99

ILLINOIS DEPARTMENT OF TRANSPORTATION  
TEMPORARY INFORMATION SIGNING

SCALE: DATE 3/28/2005  
DRAWN BY: BUR. OF DESIGN  
CHECKED BY:

FAU NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3578	1314 RS-3	COOK	23	21
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

62673



\* 75 (3) 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, 100 (4) 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 BITUMINOUS 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.

**BASIS OF PAYMENT:**

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

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

**CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT**

REVISIONS	
NAME	DATE
M. DE YONG	05/28/91
A. HOUSEH	03/11/94
R. SHAH	02/24/95
R. SHAH	03/02/95
R. SHAH	08/19/96
R. SHAH	09/12/96
R. SHAH	09/19/96
R. SHAH	10/03/96
A. ABBAS	03/21/97
M. GOMEZ	01/22/01

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**CURB OR  
CURB AND GUTTER  
REMOVAL AND REPLACEMENT**

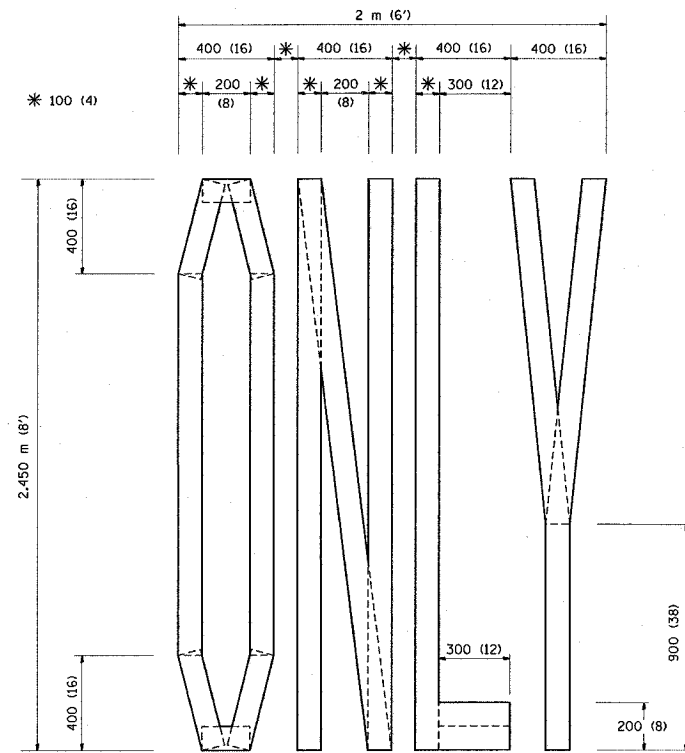
SCALE: NONE  
DATE 3/28/2005

DRAWN BY  
CHECKED BY  
BD600-06 (BD-24)

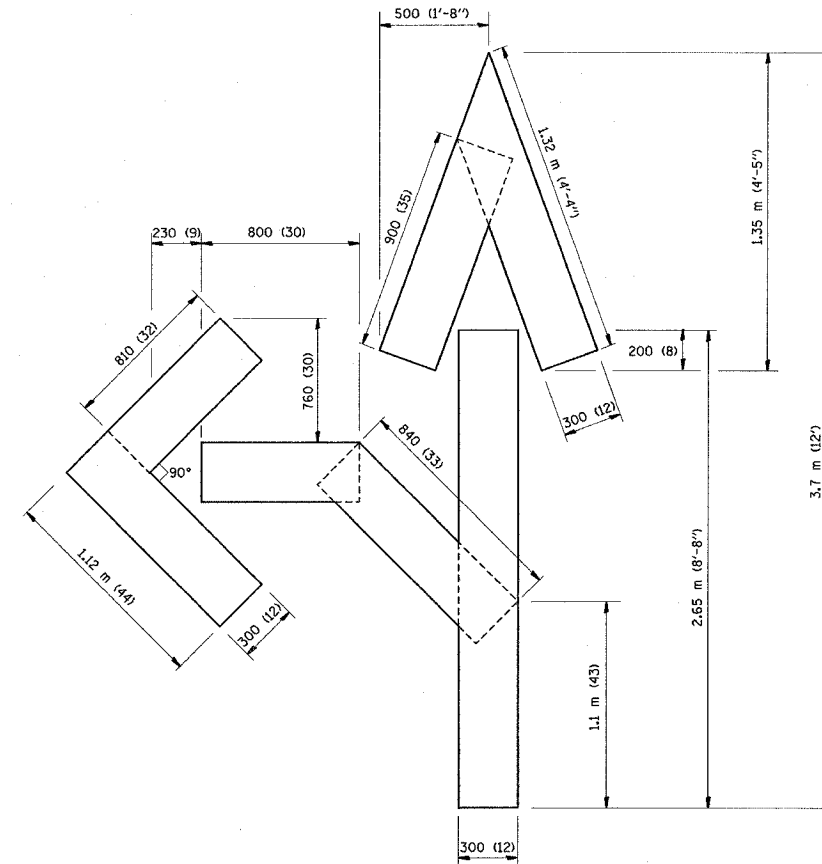
REVISION DATE: 12/06/98

FAU RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3578	1314 RS-3	COOK	23	22
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

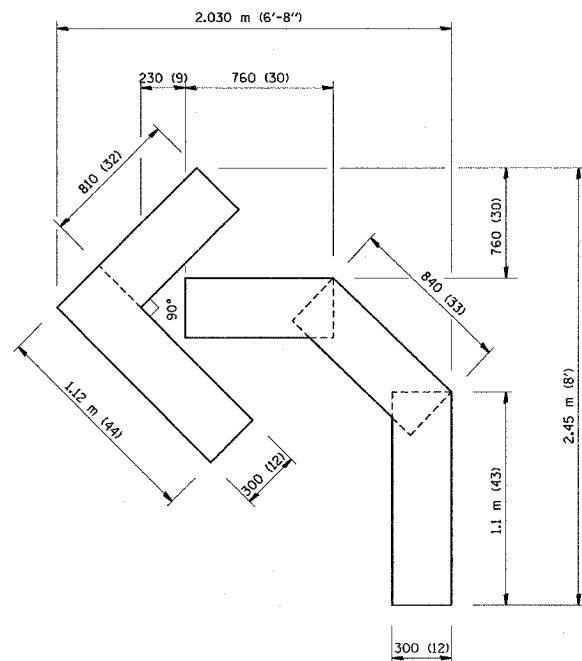
62673



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



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



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

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

ILLINOIS DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING  
LETTERS AND SYMBOLS  
FOR TRAFFIC STAGING

REVISIONS		
NAME	DATE	
T. RAMMACHER	09/18/94	
J. OBERLE	06/01/96	
T. RAMMACHER	06/05/96	
T. RAMMACHER	11/04/97	
T. RAMMACHER	03/02/98	
E. GOMEZ	08/28/00	

SCALE: NONE  
DATE: 3/28/2005

DRAWN BY CADD  
CHECKED BY  
TC-16

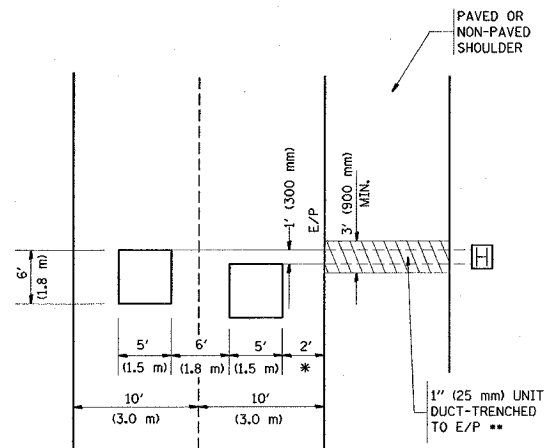
REVISION DATE: 08/28/00

FAU REV.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3578	1314 RS-3	COOK	23	23
STA.		TO STA.		
FED. ROAD DIST. NO. 1		ILLINOIS	FED. AID PROJECT	

62673

LOOPS NEXT TO SHOULDERS

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

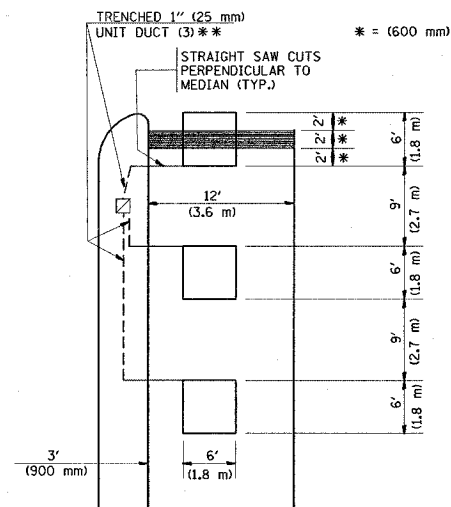


\* = (600 mm)

\*\* 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.

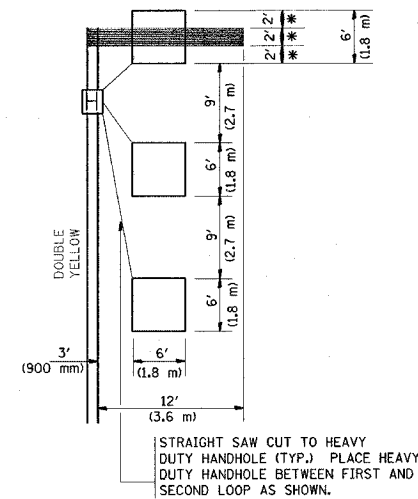


\*\* UNIT DUCT IS TO BE SHOWN ON PLAN SHEETS  
BUT SHALL NOT BE INCLUDED IN THE PAY ITEMS.

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

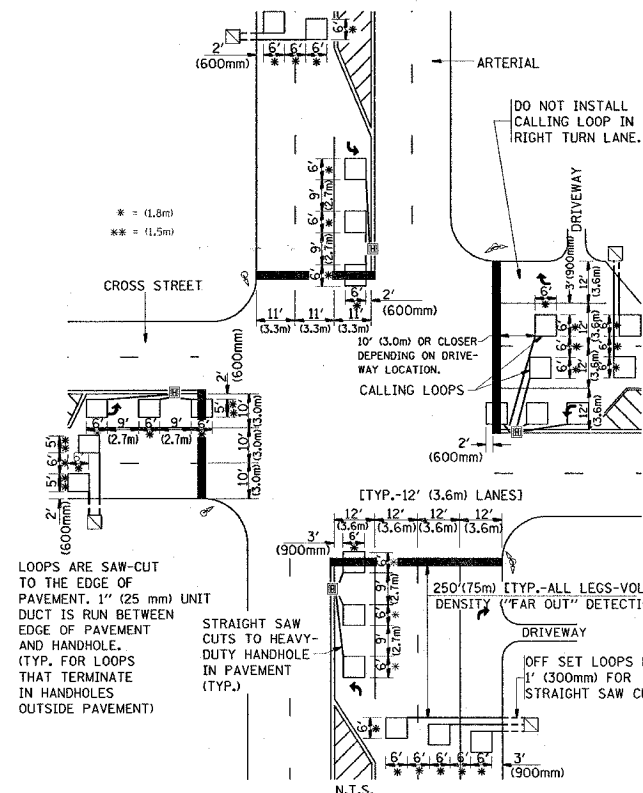
LEFT TURN LANES WITHOUT MEDIANS  
VOLUME DENSITY ("FAR OUT" DETECTION)  
ON SAME APPROACH  
(PROTECTED / PERMITTED LEFT TURN PHASING)

\* = (600 mm)



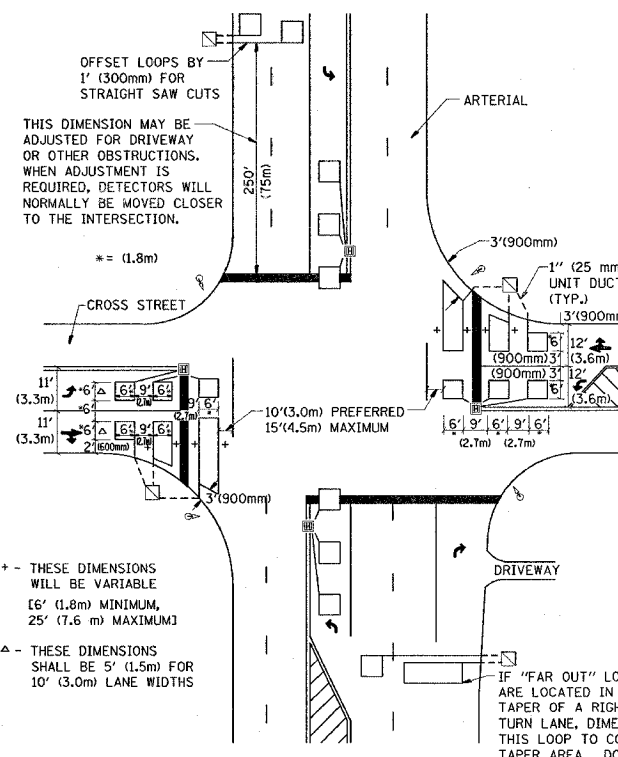
NOTE: DUAL LEFT TURNS NOT SHOWN REFER TO  
PLAN SHEET FOR DETECTOR LOOP REPLACEMENT

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



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.

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
DISTRICT 1  
DETECTOR LOOP  
INSTALLATION DETAILS  
FOR ROADWAY RESURFACING

SCALE: NONE  
DATE 3/28/2005

DRAWN BY CADD  
DESIGNED BY  
CHECKED BY R.K.F.

TSOT  
REVISION DATE: