STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

DIVISION OF HIGHWAYS

PROPOSED HIGHWAY PLANS

F.A.P. 305: WILLOW ROAD W. OF SANDERS RD. TO LANDWEHR RD. **SECTION: (1616 & 1719) RS-2 SURFACE MAINTENANCE COOK COUNTY** C-91-206-05

R. 12 E. IMPROVEMENT BEGINS STA. 417+43 IMPROVEMENT ENDS STA. 469+10 OMISSION OVER I-294: STA. 451+98 TO STA. 455+10 TRAFFIC DATA 2003 ADT = 46.800SPEED LIMIT = 45-55 MPH NORTHFIELD TOWNSHIP

GROSS LENGTH OF IMPROVEMENT = 5167 FEET = .98 MILE NET LENGTH OF IMPROVEMENT = 4855 FEET = .92 MILE

FOR INDEX OF SHEETS, SEE SHEET NO. 2

IMPROVEMENT LOCATED IN THE CITY OF PROSPECT HEIGHTS AND THE VILLAGES OF GLENVIEW AND NORTHBROOK

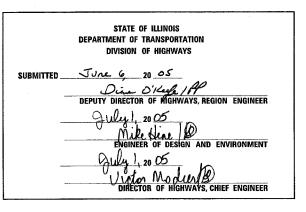
CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS

JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION 1-800-892-0123

CONTRACT NO. 62953

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

D-91-206-05 LOCATION OF SECTION INDICATED THUS: -



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ENGINEER: KEN

DISTRICT

FEO. RO	AD DIST. NO. 1 ILLING	DIS FED. AID	PROJECT	
STA.		O STA.		
305	(1616&1719)RS-2	COOK	27	2
RTE.	SECTION	COUNTY	TOTAL	SHEE'

INDEX OF SHEETS

DESCRIPTION

SHEET NO.

SHEET 1101	DESCRIPTION
1	TITLE SHEET
2	INDEX OF SHEETS, STATE STANDARDS & GENERAL NOTES.
3	SUMMARY OF QUANTITIES
4-6	EXISTING AND PROPOSED TYPICAL SECTIONS
7-10	ROADWAY AND PAVEMENT MARKING PLANS
11-13	DETECTOR LOOP REPLACEMENT PLANS
14	DETAILS FOR FRAMES AND LIDS ADJUSTMENT WITH MILLING
15	PAVEMENT PATCHING FOR BITUMINOUS SURFACED PAVEMENT
16	CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT
17	BUTT JOINT AND BITUMINOUS TAPER DETAILS
18	METHOD OF FLAGGING
19	FREEWAY ENTRANCE AND EXIT RAMP CLOSURE DETAILS
20	FREEWAY SHOULDER CLOSURES, PARTIAL RAMP CLOSURES
21	TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS AND DRIVEWAYS
22	TYPICAL APPLICATIONS: RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT)
23	DISTRICT ONE TYPICAL PAVEMENT MARKINGS
24	TRAFFIC CONTROL AND PROTECTION OF TURN BAYS (TO REMAIN OPEN TO TRAFFIC)
25	PAVEMENT MARKING LETTERS AND SYMBOLS FOR TRAFFIC STAGING
26	TEMPORARY INFORMATION SIGNING
27	DISTRICT 1 DETECTOR LOOP INSTALLATION DETAILS FOR ROADWAY RESURFACING

STATE STANDARDS

STANDARD NO.	DESCRIPTION
000001 -04	TYPICAL SYMBOLS, ABBREVIATIONS AND PATTERNS
442201- 01	CLASS C AND D PATCHES
604001 -02	FRAME AND LIDS, TYPE 1
604086- 0 1	FRAME AND GRATE, TYPE 23
604091- 0 1	FRAME AND GRATE, TYPE 24
606001 -02	CONCRETE CURB AND COMBINATION CONCRETE CURB AND GUTTER
701601 - 04	URBAN LANE CLOSURE, MULTILANE 1W OR 2W WITH NON TRAVERSABLE MEDIAN
701606 -04	URBAN LANE CLOSURE, MULTILANE 2W WITH MOUNTABLE MEDIAN
701701- 04	URBAN LANE CLOSURE, MULTILANE INTERSECTION
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 "JULIE" AT (800) 892-0123 FOR FIELD LOCATIONS OF BURIED ELECTRIC, TELEPHONE, AND GAS FACILITIES. (48 HOUR NOTIFICATION REQUIRED)

THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES, CITY OF PROSPECT HEIGHTS AND VILLAGES OF GLENVIEW AND NORTHBROOK.

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

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

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

THE RESIDENT ENGINEER SHALL CONTACT MR. WALTER CZARNY, AREA TRAFFIC FIELD ENGINEER, AT (773) 685-8386 A MINIMUM OF 2 WEEKS PRIOR TO PLACEMENT OF FINAL PAVEMENT MARKINGS

3 METERS (10 FEET) 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.

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

THE UNIT WEIGHT (CONVERSION FACTOR) QUOTED IS FOR THE ESTIMATED 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 DENSITITES OF THE IN-PLACE MIXTURES.

TEMPORARY INFORMATION SIGNING SHALL BE PROVIDED AT ALL SIDE STREETS AND RAMPS AS DIRECTED BY THE RESIDENT ENGINEER.

REVISIONS NAME	DATE	ILLINOIS DEPART	MENT OF TRANSPORTATION
			TS, STATE STANDARDS,
		AND G	ENERAL NOTES
		SCALE: VERT. HORIZ.	DRAWN BY
		DATE	CHECKED BY

FILE NAME = ci/projects/di20605/di20605ea.m32 PLOT SCALE = 50.0000 / IN. REFERENCE = \$REF\$

F.A.P.	SECTION		COUNT	Υ	TOTAL SHEETS	SHEET NO.
305	(1616 & 1719) RS-	2	соок		27	3
FED.	ROAD DIST. NO. 1	ILL	INOIS	HI	GHWAY PR	OJECT
				CON	ITRACT	62953

	SUMMARY OF QUANTITIES				CONS	TRUCTIO	ON TYPE C	ODE			SUMMARY OF QUANTITIES				CON	STRUCTION TYP	E CODE	
	SUMMART OF QUANTITIES	T	TOTAL								JONIMANT OF GOANTITIES		TOTAL					
CODE NO	ITEM	UNIT	TOTAL QUANTITIES							CODE NO	ITEM	UNIT	QUANTITIES					
				1000-2A										I000-2A				
40600200	BITUMINOUS MATERIALS (PRIME COAT)	TON	14	14						70300260	TEMPORARY PAVEMENT MARKING - LINE 12"	FOOT	50	50	:			
40600300	AGGREGATE (PRIME COAT)	TON	66	66						70300280	TEMPORARY PAVEMENT MARKING	FOOT	264	264				
40600400	MIXTURE FOR CRACKS, JOINTS, AND FLANGEWAYS	TON	20	20					,		- LINE 24"							
40600895	CONSTRUCTING TEST STRIP	EACH	1	1							WORK ZONE PAVEMENT MARKING REMOVAL	SQ FT	7600	7600	-			
40600980	BITUMINOUS SURFACE REMOVAL - BUTT JOINT	SQ YD	305	305						* 78000100	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	620	620				
40601000	BITUMINOUS REPLACEMENT OVER PATCHES	TON	390	390						* 78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	13400	13400				
42001300	PROTECTIVE COAT	SQ YD	60	60						W 78000400	THERMOPLASTIC PAVEMENT MARKING	FOOT	1900	1900				
44000112	BITUMINOUS REMOVAL OVER PATCHES 3"	SQ YD	2300	2300						未 78000400	- LINE 6"	1001						
44001700	COMBINATION CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT	FOOT	500	500						* 78000500	THERMOPLASTIC PAVEMENT MARKING - LINE 8"	F00T	800	800				
44201765	CLASS D PATCHES, TYPE II, 10 INCH	SQ YD	495	495						* 78000600	THERMOPLASTIC PAVEMENT MARKING	FOOT	50	50				
44201769	CLASS D PATCHES, TYPE III, 10 INCH	SQ YD	495	495						₩ 78000650	THERMOPLASTIC PAVEMENT MARKING	FOOT	264	264				
44201771	CLASS D PATCHES, TYPE IV, 10 INCH	SQ YD	660	660						7,	- LINE 24"							
60404940	FRAMES AND GRATES, TYPE 23	EACH	28	28						* 78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	150	150				
60404950	FRAMES AND GRATES, TYPE 24	EACH	28	28						78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	50	50				
60406100	FRAMES AND LIDS, TYPE 1, CLOSED LID	EACH	18	18						₩ 88600600	DETECTOR LOOP REPLACEMENT	FOOT	1510	1510				
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	6	6							TEMPORARY INFORMATION SIGNING	SQ FT	205.6	205.6				
67100100	MOBILIZATION	L SUM	1	1							BITUMINOUS CONCRETE SURFACE COURSE,	TON	3234	3234				
70102625	TRAFFIC CONTROL AND PROTECTION, STANDARD 701606	L SUM	1	1							SUPERPAVE, MIX "F", N90 BITUMINOUS SURFACE REMOVAL 1 3/4"	SQ YD	33000	33000				
70102630	TRAFFIC CONTROL AND PROTECTION, STANDARD 701601	L SUM	1	1							DRAINAGE STRUCTURES TO BE CLEANED	EACH	74	74				
70102635	TRAFFIC CONTROL AND PROTECTION, STANDARD 701701	L SUM	1	1														
70300100	SHORT-TERM PAVEMENT MARKING	FOOT	2500	2500														
70300210	TEMPORARY PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	620	620					-									
70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	13400	13400														
70300240	TEMPORARY PAVEMENT MARKING - LINE 6"	FOOT	1900	1900			·											
70300250	TEMPORARY PAVEMENT MARKING - LINE 8"	FOOT	800	800.														
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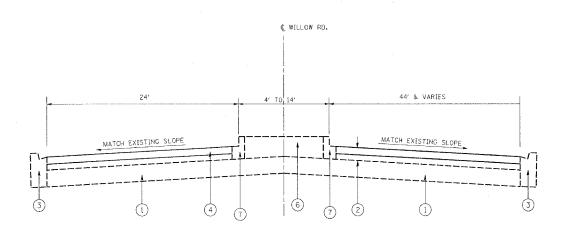
* SPECIALTY ITEM

REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATI
NAME	DATE	
		SUMMARY OF QUANTITIE

EXISTING TYPICAL SECTION WILLOW ROAD

6

STATION 417+43 TO 427+74 462+00 TO 469+10



PROPOSED TYPICAL SECTION WILLOW ROAD

> STATION 417+43 TO 427+74 462+00 TO 469+10

CONTRACT NO. 62953 COUNTY TOTAL SHEE SHEETS NO. F.A.P. SECTION 305 (1616&1719)RS-2 COOK 27 STA. _____ TO STA.____ FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT

LEGEND

- 1) EXISTING PCC BASE COURSE, 10"(±)
- (2) EXISTING BIT. CONCTRETE SURFACE COURSE, 3"(±)
- (3). EXISTING TYPE B-6.12 OR B-6.24 CURB & GUTTER
- 4) PROPOSED POLYMERIZED BIT. CONC. SURFACE COURSE, SUPERPAVE, MIX "F", N90, 1 3/4 "
- (5) BITUMINOUS SURFACE REMOVAL 1 3/4"
- 6 EXISTING BITUMINOUS MEDIAN
- (7) EXISTING B-9.12 OR M-2.12 CURB AND GUTTER

BITUMINOUS MIXTURE REQUIREMENTS

MIXTURE USE	AC TYPE	MAX RAP. (%)	AIR VOIDS (%)
POLYMERIZED BIT, CONC. SURFACE COURSE, SUPERPAVE, MIX "F" N90	SBS/SBR PG 70-22	0	4% @ 90 GYR
BIT. REPLACEMENT OVER PATCHES, IL-19.0 MM	PG 64-22	15%	4% @ 70 GYR
CLASS D PATCHES, IL-19MM, 9 IN	PG 64-22	15%	4% @ 70 GYR

THE UNIT WEIGHT USED TO CALCULATE ALL BITUMINOUS MIXTURE QUANTITIES IS 112 LBS/SY/IN

NOTES:

BARRIER WALL FROM STA. 417+43 TO 424+93

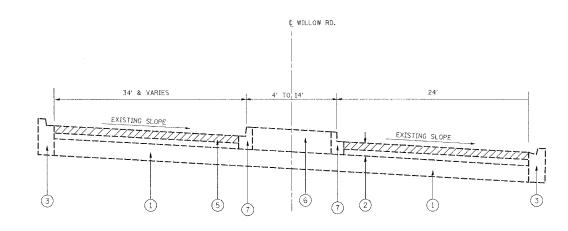
TYPE B-6.12 CURB & GUTTER FROM STA. 417+43 TO 428+00

TYPE B-6.24 CURB & GUTTER FROM STA. 462+00 TO 469+10

NON-TRAVERSABLE MEDIANS WITH TYPE B-9.12 CURB & GUTTER FROM STA. 426+95 TO STA. 427+73.

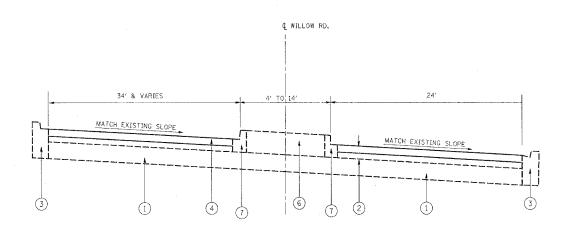
ALL OTHER BITUMINOUS MEDIANS ARE MOUNTABLE WITH TYPE M-2.12 CURB & GUTTER.

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EXISTING TYPICAL SECTION WILLOW ROAD

> STATION 427+74 TO 439+96



PROPOSED TYPICAL SECTION WILLOW ROAD

> STATION 427+74 TO 439+96

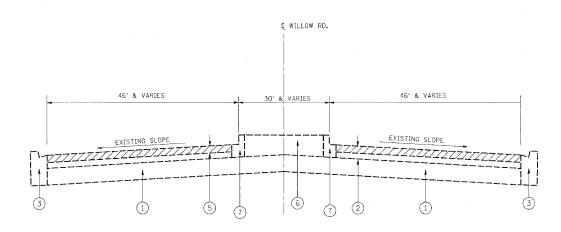
LEGEND

- 1 EXISTING PCC BASE COURSE, 10"(±)
- (2) EXISTING BIT, CONCTRETE SURFACE COURSE, 3"(±)
- (3) EXISTING TYPE B-6.12 CURB & GUTTER
- PROPOSED POLYMERIZED BIT. CONC. SURFACE COURSE, SUPERPAVE, MIX "F", N90, 1 3/4 "
- 5 BITUMINOUS SURFACE REMOVAL 1 3/4"
- 6 EXISTING BITUMINOUS MEDIAN
- 7 EXISTING B-9.12 OR M-2.12 CURB AND GUTTER

NON-TRAVERSABLE MEDIANS WITH TYPE B-9.12 CURB & GUTTER FROM STA. 427+74 TO STA. 433+01 AND STA. 435+42 TO STA. 436+35

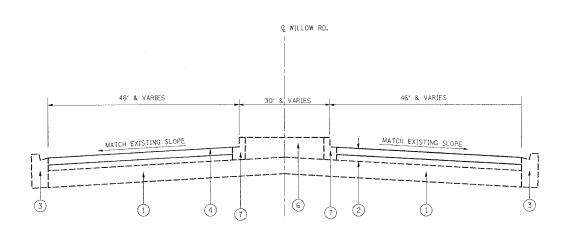
ALL OTHER BITUMINOUS MEDIANS ARE MOUNTABLE WITH TYPE M-2.12 CURB & GUTTER

REVISIO		ILLINOIS DEPARTMENT OF TRANSPORTA			
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EXISTING TYPICAL SECTION WILLOW ROAD

> STATION 439+96 TO 451+98 & 455+10 TO 462+00



PROPOSED TYPICAL SECTION WILLOW ROAD

> STATION 439+96 TO 451+98 455+10 TO 462+00

LEGEND

- 1 EXISTING PCC BASE COURSE, 10"(±)
- ② EXISTING BIT. CONCTRETE SURFACE COURSE, 3"(±)
- 3 EXISTING TYPE B-6.24 CURB & GUTTER
- PROPOSED POLYMERIZED BIT. CONC. SURFACE COURSE, SUPERPAVE, MIX "F", N90, 1 3/4 "
- 5 BITUMINOUS SURFACE REMOVAL 1 3/4"
- 6 EXISTING BITUMINOUS MEDIAN
- 7 EXISTING B-9.12 OR M-2.12 CURB AND GUTTER

NOTES:

NON-TRAVERSABLE MEDIANS WITH TYPE B-9.12 CURB & GUTTER FROM STA. 439+96 TO STA. 442+11.

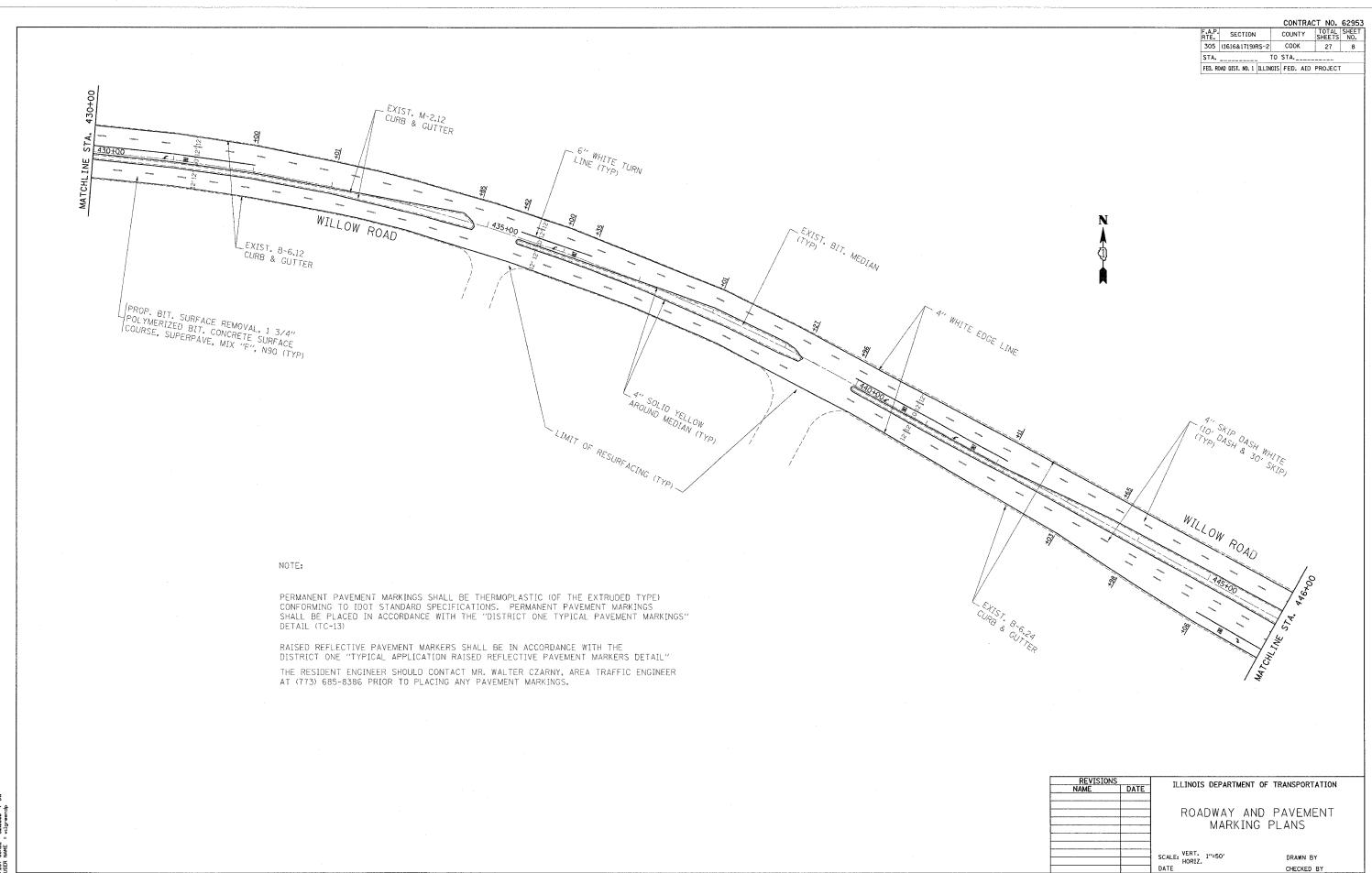
ALL OTHER BITUMINOUS MEDIANS ARE MOUNTABLE WITH TYPE M-2,12 CURB & GUTTER.

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	FXISTING	& PROPOSED
		SECTIONS
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| CONTRACT NO. 62953 | F.A.P. | SECTION | COUNTY | TOTAL SHEETS | NO. | | 305 | (1616&1719)RS-2 | COOK | 27 | 7 STA. _____ TO STA.____ FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT \bigcirc IMPROVEMENT BEGINS ANDERS STA. 417+43 4" SKIP DASH WHITE -(10' DASH & 30' SKIP) (TYP) R 24" SOLID WHITE EXIST. M-2.12 4" SOLID YELLOW STOP BAR (TYP) CURB & GUTTER AROUND MEDIAN (TYP) EXIST. B-6.12 CURB & GUTTER 4" WHITE EDGE LINE 1 415+00 --WILLOW ROAD EXIST. BARRIER WALL-PROP. BIT. SURFACE REMOVAL, 1 3/4" 6" WHITE TURN LINE (TYP) POLYMERIZED BIT. CONCRETE SURFACE EXIST. BIT. MEDIAN -(TYP) COURSE, SUPERPAVE, MIX "F", N90 (TYP) 8" SOLID WHITE AROUND RAISED ISLANDS (TYP) X \mathcal{O} LIMIT OF RESURFACING (TYP) H SANDI NOTE: PERMANENT PAVEMENT MARKINGS SHALL BE THERMOPLASTIC (OF THE EXTRUDED TYPE)
CONFORMING TO IDOT STANDARD SPECIFICATIONS. PERMANENT PAVEMENT MARKINGS
SHALL BE PLACED IN ACCORDANCE WITH THE "DISTRICT ONE TYPICAL PAVEMENT MARKINGS" DETAIL (TC-13) RAISED REFLECTIVE PAVEMENT MARKERS SHALL BE IN ACCORDANCE WITH THE DISTRICT ONE "TYPICAL APPLICATION RAISED REFLECTIVE PAVEMENT MARKERS DETAIL" THE RESIDENT ENGINEER SHOULD CONTACT MR. WALTER CZARNY, AREA TRAFFIC ENGINEER AT (773) 685-8386 PRIOR TO PLACING ANY PAVEMENT MARKINGS. REVISIONS NAME DATE ILLINOIS DEPARTMENT OF TRANSPORTATION ROADWAY AND PAVEMENT MARKING PLANS SCALE: VERT. 1"=50" DRAWN BY

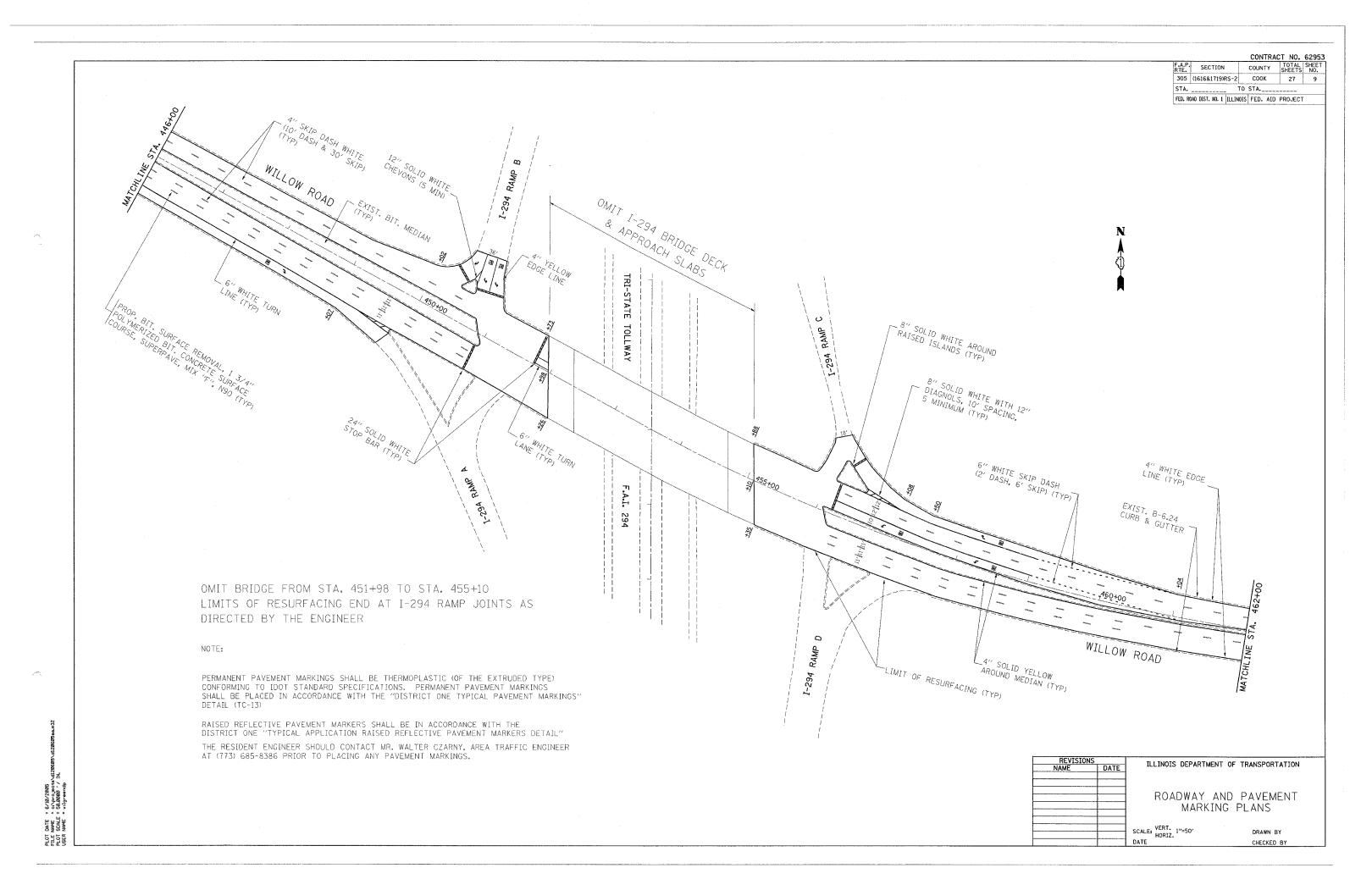
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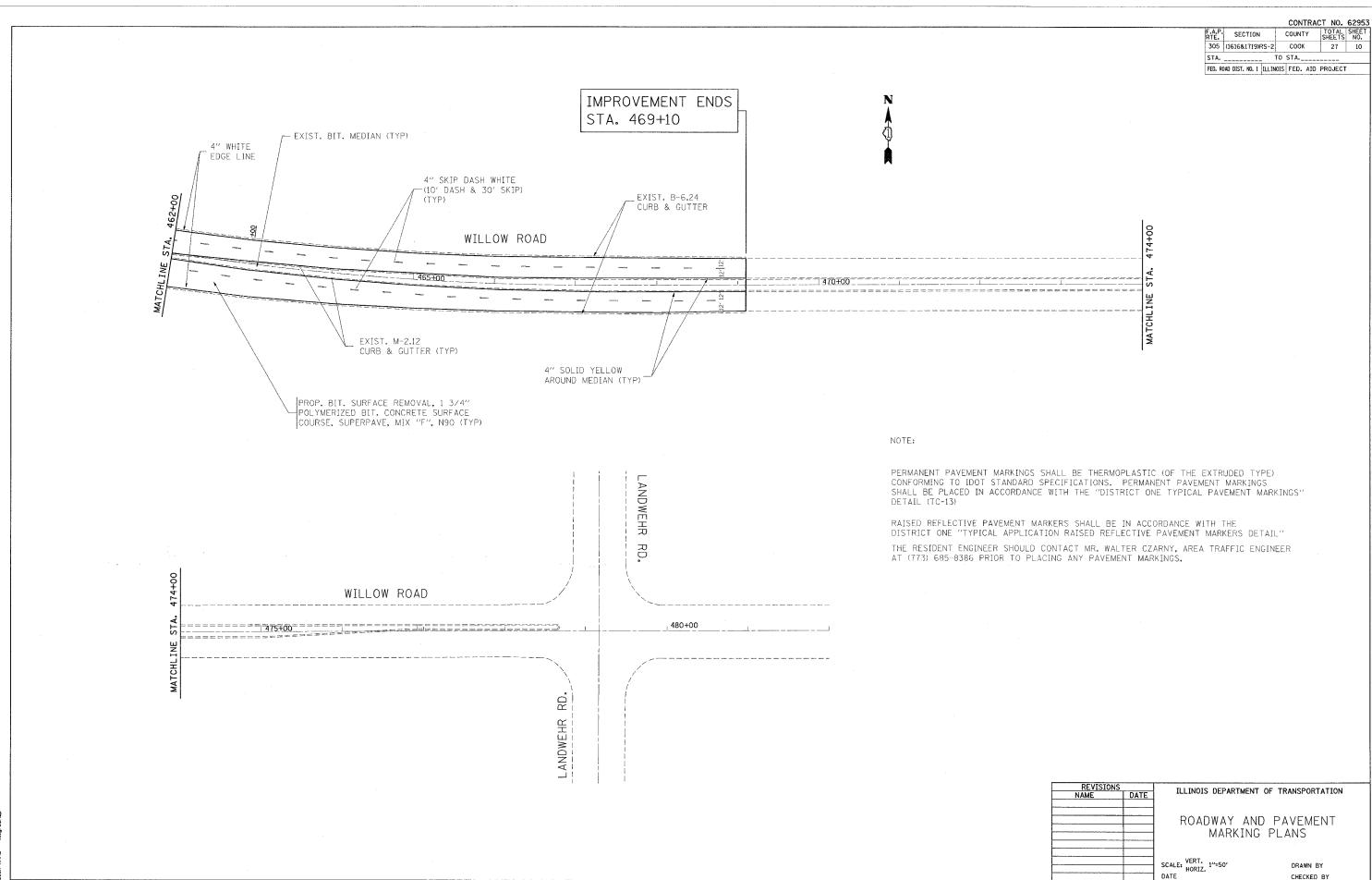
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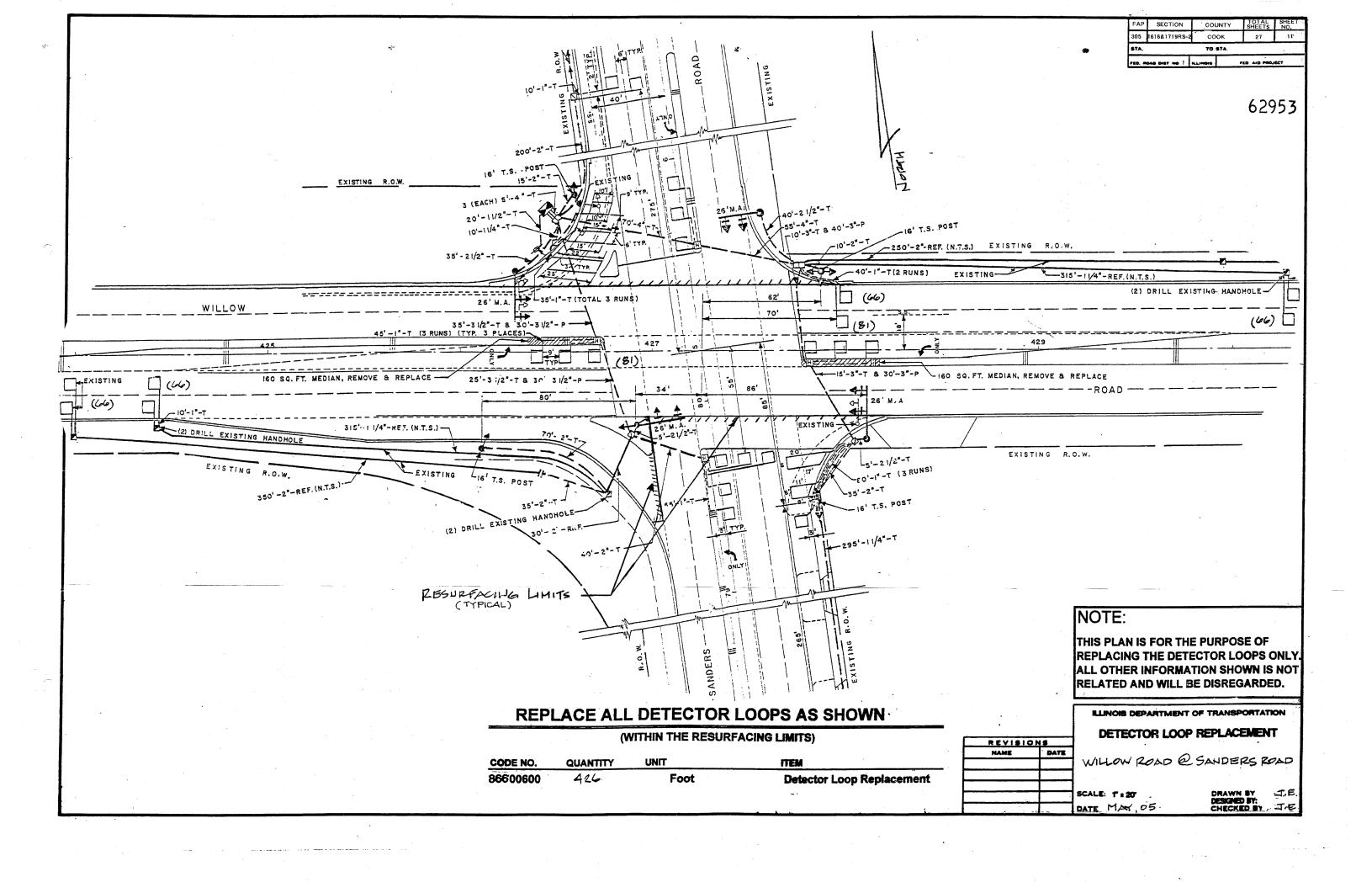
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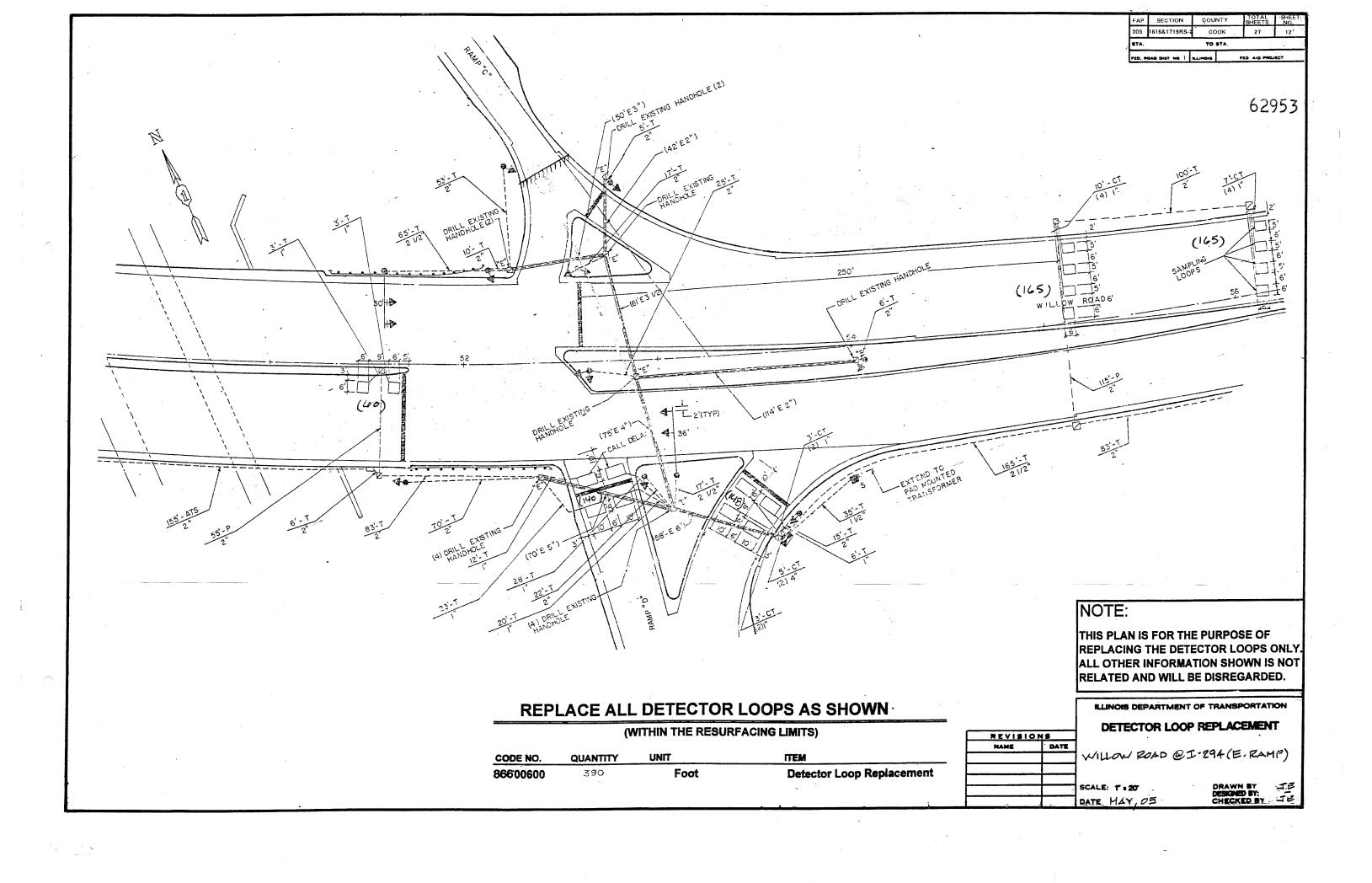
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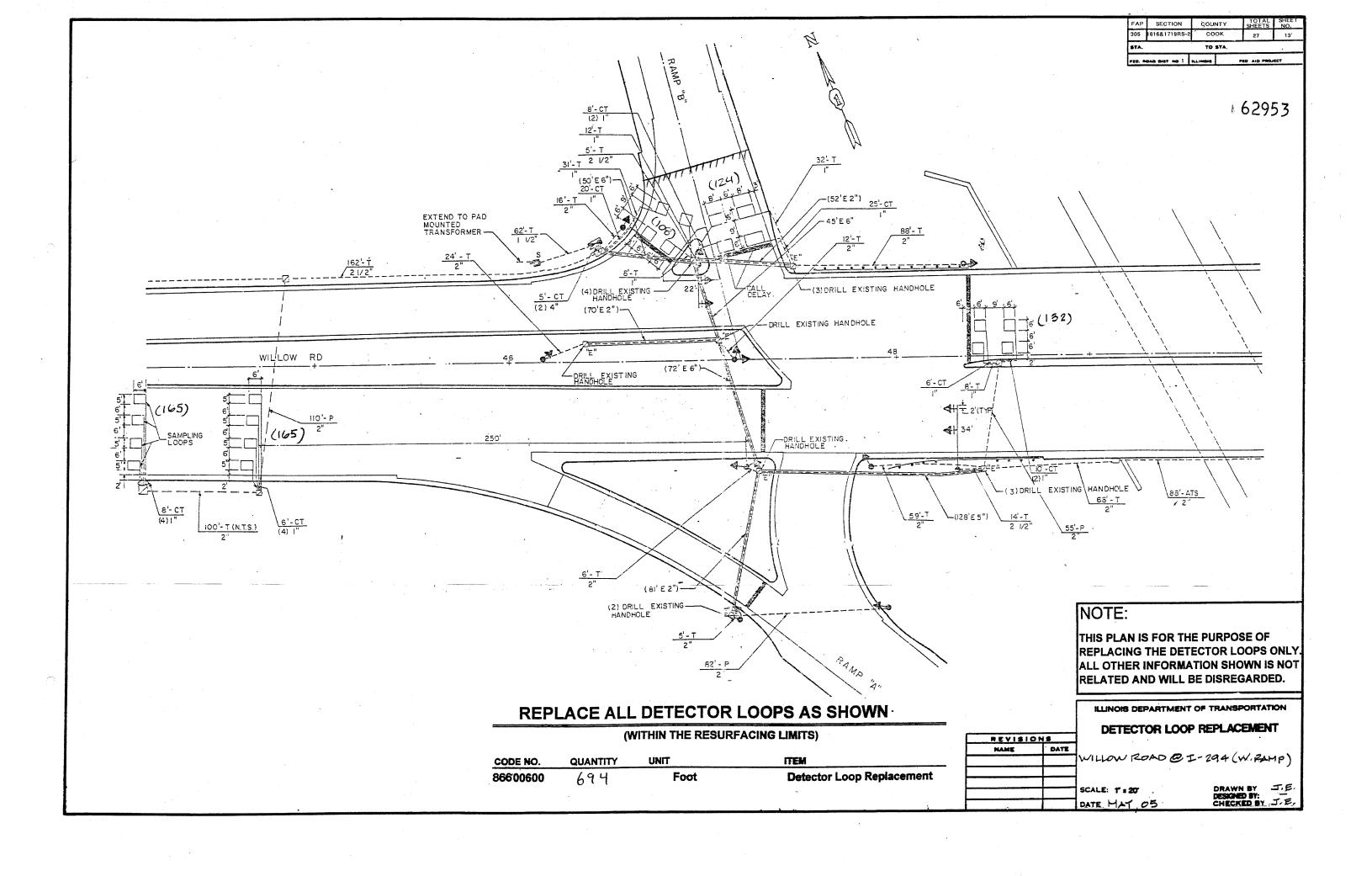




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F. A.P.	SECTION		COUNTY	TOTAL SMEETS	SHEET NO
305	1616&1719	RS-2	соок	27	14
STA.			TO STA.		
FED. 5	IOAD BIST. NO. 1	ILLINO:	s	FED. AID PROJECT	

62953

CONSTRUCTION PROCEDURES

STAGE 1 (BEFORE PAVEMENT MILLING)

- A) REMOVE A MINIMUM OF 300 (12) OF THE PAVEMENT FROM AROUND THE STRUCTURE.
- B) REMOVE THE EXISTING FRAME AND LID FROM THE STRUCTURE.
- C) COVER THE STRUCTURE OPENING WITH A 900 (36) DIAMETER METAL PLATE.
- D) BACKFILL WITH CRUSHED STONE AND A MINIMUM 40 (1½) THICK BITUMINOUS MATERIAL APPROVED BY THE ENGINEER.

STAGE 2 (AFTER PAVEMENT MILLING)

- A) REMOVE THE BITUMINOUS MATERIAL AND CRUSHED STONE.
- B) INSTALL THE FRAME AND LID; ADJUST THE FRAME TO ITS FINAL SURFACE ELEVATION.
- C) THE SURROUNDING SPACE SHALL BE FILLED WITH CLASS SI CONCRETE, OR BITUMINOUS CONCRETE SURFACE OR BINDER COURSE MATERIAL TO THE ELEVATION OF THE SURFACE OF THE EXISTING BASE COURSE OR THE BINDER COURSE.

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

LEGEND

1 SUB-BASE GRANULAR MATERIAL

PROPOSED SAND FILL

- 2 EXISTING PAVEMENT
- 3 900 (36) DIAMETER METAL PLATE
- 4 PROPOSED CRUSHED STONE AND BITUMINOUS MATERIAL
- 5 EXISTING STRUCTURE

- (6) FRAME AND LID (SEE NOTES)
- 7 CLASS SI CONCRETE, BITUMINOUS CONCRETE SURFACE OR BINDER COURSE MATERIAL
- 8 PROPOSED BITUMINOUS CONCRETE SURFACE COURSE
- 9 PROPOSED BITUMINOUS CONCRETE BINDER COURSE

LOCATION OF STRUCTURES:

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

BASIS OF PAYMENT: FRAMES AND LIDS TO BE ADJUSTED, SPECIAL EACH

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

DETAILS FOR FRAMES AND LIDS ADJUSTMENT WITH MILLING

4

3

PROPOSED

PROPOSED

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

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

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

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

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

- BRICK, MORTAR, OR CONC. ADJUSTING RINGS

___300 (12) MIN.__

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NOTES:

ALL DIMENSIONS ARE IN MILLIMETERS (INCHES) UNLESS OTHERWISE SHOWN

ILLINOIS DEPARTMENT OF TRANSPORTATION

DETAILS FOR FRAMES AND LIDS ADJUSTMENT WITH MILLING

SCALE: NONE DATE: 6/4/2005

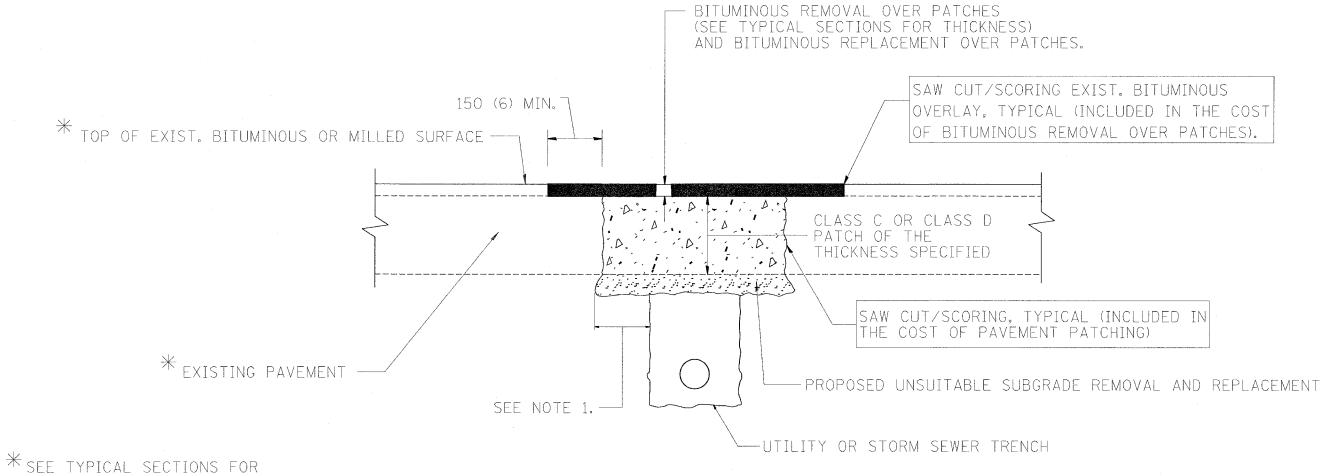
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BD600-03 (BD-8) REVISION DATE: 05/17/04

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NOTES:

THICKNESS AND MATERIALS

- 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

II		REVISIO
11	DATE	NAME
	10/25/94	R. SHAH
	01/14/95	R. SHAH
	03/23/95	R. SHAH
	04/24/95	R. SHAH
	03/15/96	A. HOUSEH
	03/21/97	A. ABBAS
	01/20/98	A. ABBAS
SCALE:	04/27/98	ART ABBAS
SCALE		
DATE	1	

ILLINOIS DEPARTMENT OF TRANSPORTATION

PAVEMENT PATCHING FOR BITUMINOUS SURFACED PAVEMENT

SCALE: VERT. HORIZ. DRAWN BY

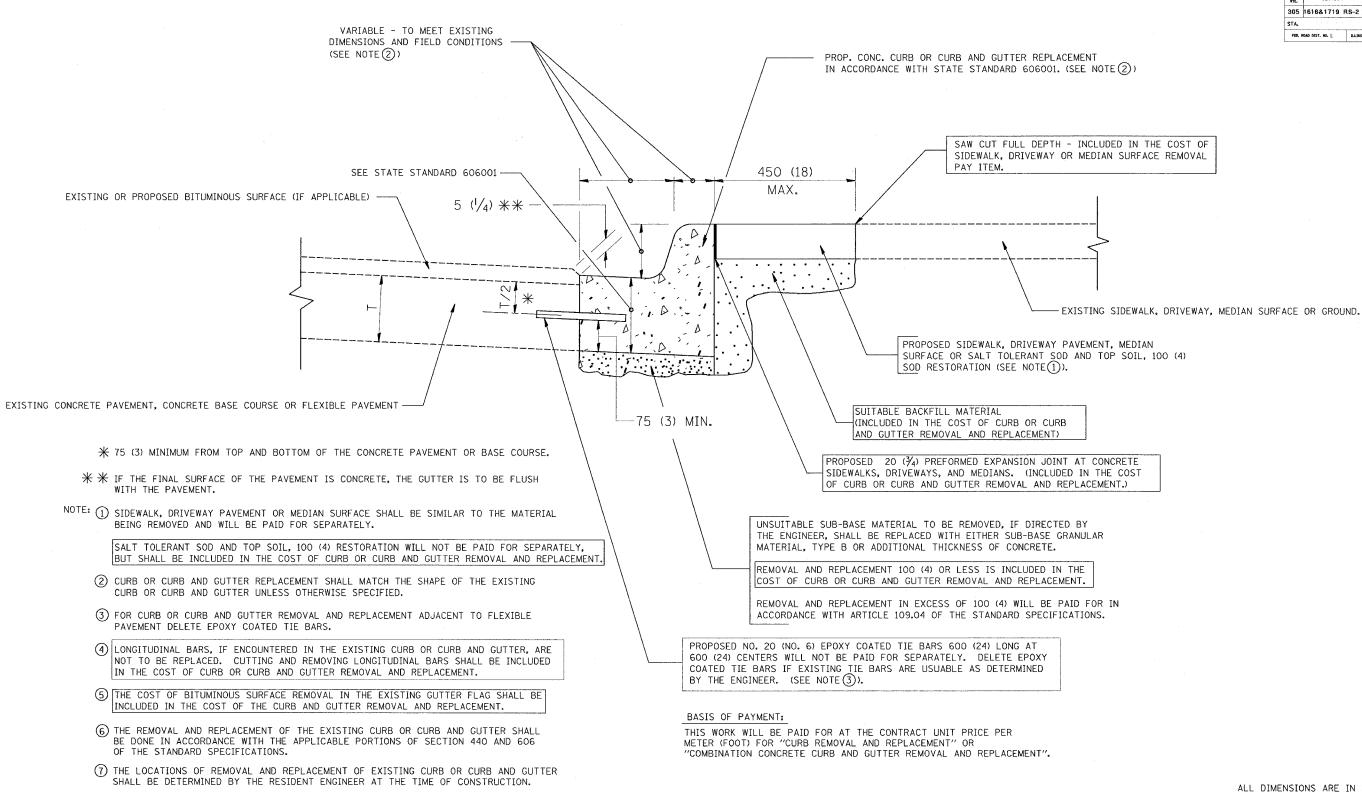
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BD400-04 (BD-22) REVISION DATE:04/27/98

6/4/2005 VI=BD22 wilgreendp

COUNTY TOTAL SHEETS SECTION 305 1616&1719 RS-2 COOK 27 16 STA. TO STA.

62953



CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT

ALL DIMENSIONS ARE IN MILLIMETERS (INCHES) UNLESS OTHERWISE SHOWN. ILLINOIS DEPARTMENT OF TRANSPORTATION M. DE YONG 05/28/91 CURB OR A. HOUSEH 03/11/94 R. SHAH 02/24/95

CURB AND GUTTER 09/12/96 09/19/96 10/03/96 03/21/97 REMOVAL AND REPLACEMENT

01/22/01

R. SHAH

R. SHAH 08/19/96

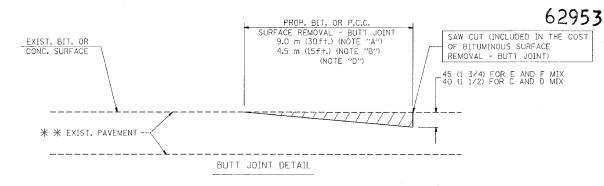
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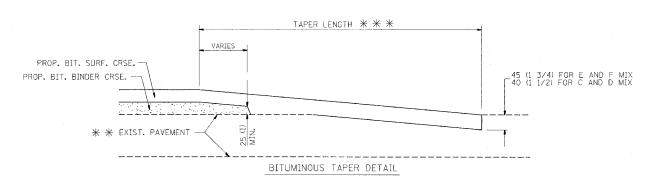
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PROP. PAY LIMIT OF BIT. SURF. REMOVAL FULL THICKNESS OF MILLING TEMP. RAMP (NOTE "E") PROP. BIT. SURFACE REMOVAL-EXIST. PAVEMENT MILLED TEMPORARY RAMP (FOR BUTT JOINT AND BIT. TAPER SEE DETAIL BELOW) OPTION 1 PROP. PAY LIMIT OF BIT. SURF. REMOVAL FULL THICKNESS OF MILLING SAW CUT (INCLUDED IN THE COST OF BITUMINOUS SURFACE TEMP RAME (NOTE "C") (NOTE "E") PROP. BIT. SURFACE REMOVAL REMOVAL - BUTT JOINT) 1.35 m (4.5') PAY LIMIT FOR BUTT JOINT 45 (1 3/4) FOR E AND F MIX 40 (1 1/2) FOR C AND D MIX (NOTE "D") (NOTE "F") EXIST, BIT. EXIST. PAVEMENT BITUMINOUS CONSTRUCTED TEMPORARY RAMP (FOR BUTT JOINT AND BIT. TAPER SEE DETAIL BELOW) OPTION 2 TYPICAL TEMPORARY RAMP BIT, TAPER LENGTH *** SAW CUT (INCLUDED IN THE COST OF BITUMINOUS SURFACE REMOVAL - BUTT JOINT) PROP. BIT. SURF. CRSE. PROP. BIT. BINDER CRSE. 1.35 m (4.5') VARIES_ 45 (1 3/4) FOR E AND F MIX 40 (1 1/2) FOR C AND D MIX PAY LIMIT FOR BUTT JOINT (NOTE "D") EXIST. BIT. EXIST. PAVEMENT BIT. SURF. REMOVAL - BUTT JOINT BUTT JOINT AND BITUMINOUS TAPER 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". TYPICAL BUTT JOINT AND BITUMINOUS TAPER FOR MILLING AND RESURFACING

Ishir\bi32.dgn 5/4/2005 L2.41:44 PM deer-willgreende

F. A.F. SECTION COUNTY TOTAL SHEETS 305 1616&1719 RS-2 COOK 27 STA. TO STA.





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.

ILLINOIS DEPARTMENT OF TRANSPORTATION

BUTT JOINT AND BITUMINOUS TAPER DETAILS

SCALE: NONE

09/09/9

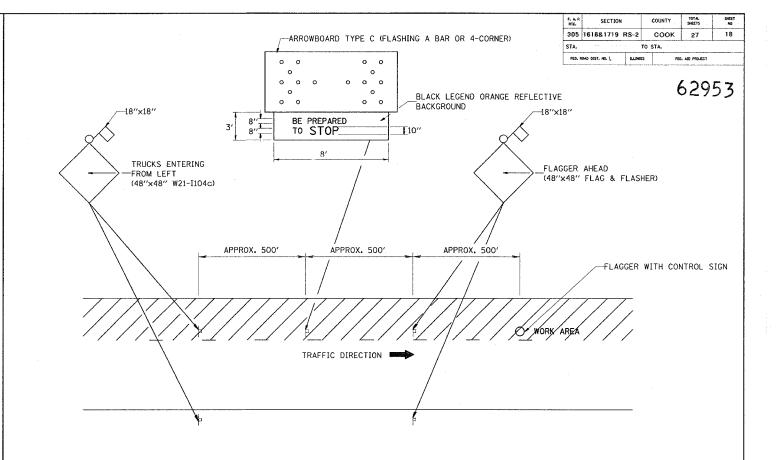
10/25/94

04/06/01

CHECKED BY

BD400-05 (VI=BD32)

REVISION DATE: 04/06/01



METHOD OF FLAGGING

NOTE:

- 1. SIGNS SHALL BE MOUNTED AT A MINIMUM CLEARANCE HEIGHT OF 5 FEET
- 2. ALL SIGNS SHALL BE REMOVED WHEN THE FLAGGING OPERATION CEASES.
- 3. THIS CASE ALSO APPLIES WHEN THE WORK ZONE IS ON THE RIGHT. UNDER THESE CONDITIONS "TRUCKS ENTERING FROM RIGHT" SIGNS SHALL BE SUBSTITUTED FOR "TRUCKS ENTERING FROM LEFT" SIGNS. ALSO THE ARROWBOARD AND "BE PREPARED TO STOP" SIGNS SHALL BE RELOCATED TO THE RIGHT SIDE OF THE ROAD.
- 4. WORK ZONE ACCESS POINTS SHOULD BE A MINIMUM OF ONE HALF MILE APART. MEDIAN WORK ZONE ACCESS POINTS SHOULD NOT BE LOCATED OPPOSITE OF EACH OTHER.
- 5. NIGHTTIME FLAGGING OPERATIONS: THE FLAG STATION SHALL BE LIGHTED WITH ADDITIONAL LIGHTS OTHER THAN STREET LIGHTS. THE FLAGGER CONTROL SIGN AND THE FLAGGER'S VEST SHALL BE REFLECTORIZED. IN ADDITION, THE FLAGGER SHALL HAVE A FLASHLIGHT OR LIGHTED WAND.

ILLINOIS DEPARTMENT OF TRANSPORTATION

REVISIONS
NAME DATE
RAY RITCHIE 5/10/00

METHOD OF FLAGGING

SCALE: NOT TO SCALE DRAWN BY C.A.D.
DATE 6/4/2005 CHECKED BY
BM-14

6/4/2005 w:\diststd\bmi4.dgn Vi*BMI4

REVISION DATE: 05/10/00



62953

RAMP CLOSURE ADVANCE WARNING SIGN

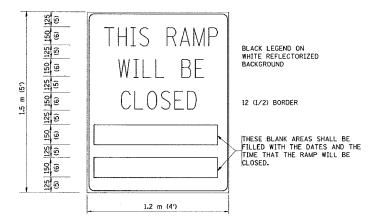
RAMP CLOSED

BLACK LEGEND ON ORANGE REFLECTORIZED BACKGROUND

25 (1) BORDER

THESE SIGNS ARE REQUIRED ON ALL THE EXIT GUIDE SIGNS FOR THE CLOSED EXIT RAMPS.

RAMP CLOSURE ADVANCE INFORMATION SIGN



THESE SIGNS ARE REQUIRED ON BOTH SIDES OF THE RAMP, 4 MINIMUM OF 1 WEEK IN ADVANCE OF THE CLOSURE.

GENERAL NOTES:

- 1. CONES MAY BE SUBSTITUTED FOR DRUMS OR TYPE II BARRICADES DURING DAY OPERATIONS, CONES SHALL BE
- STEADY BURN LIGHTS WILL NOT BE REQUIRED FOR DAY OPERATIONS.
- A FLAGGER SHALL BE POSITIONED AT EACH CLOSED RAMP THAT IS OPEN TO CONSTRUCTION VEHICLES.
- 4. FOR DAYTIME RAMP CLOSURES, LASTING 6 HOURS OR LESS, THE CONTRACTOR MAY ELIMINATE THE ADVANCE WARNING SIGNS ON THE EXIT GUIDE SIGNS.
- ALL ROUTE MARKERS AND TRAILBLAZER ASSEMBLIES WHICH DIRECT MOTORISTS TO A CLOSED ENTRANCE RAMP SHALL BE COVERED.
- THE SIGNING AND BARRICADING WHICH IS REQUIRED BY THIS DETAIL SHALL BE CONSIDERED INCIDENTAL TO TRAFFIC CONTROL AND PROTECTION.
- AUTHORIZATION FROM THE DISTRICT'S BUREAU OF TRAFFIC IS REQUIRED FOR ALL RAMP CLOSURES.

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

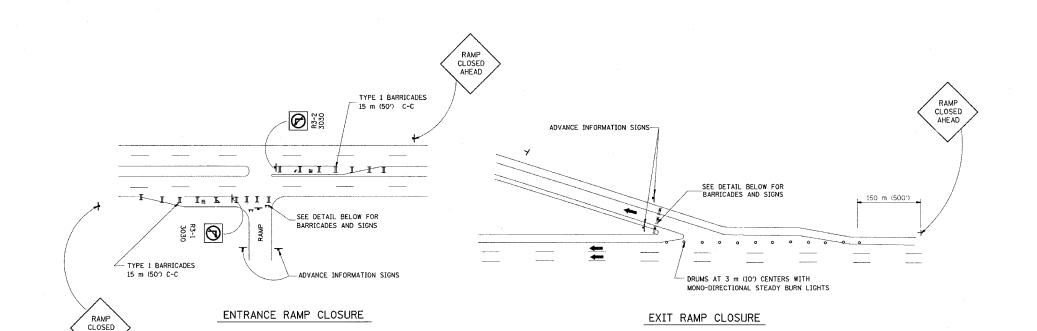
ILLINOIS DEPARTMENT OF TRANSPORTATION

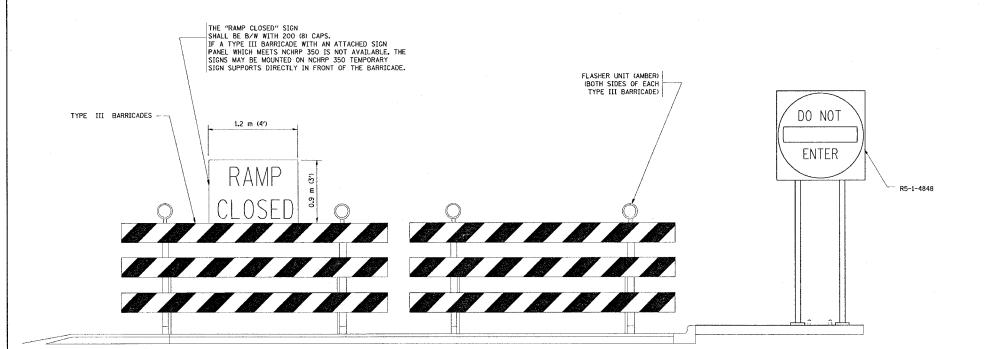
| Date | 2-83 | FREEWAY | 1/90 | ENTRANCE AND EXIT RAMP | 12/94 | 12/02 | CLOSURE DETAILS |

SCALE: VERT. HORIZ. DATE 6/4/2005

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TC-8
REVISION DATE: 04/03/03



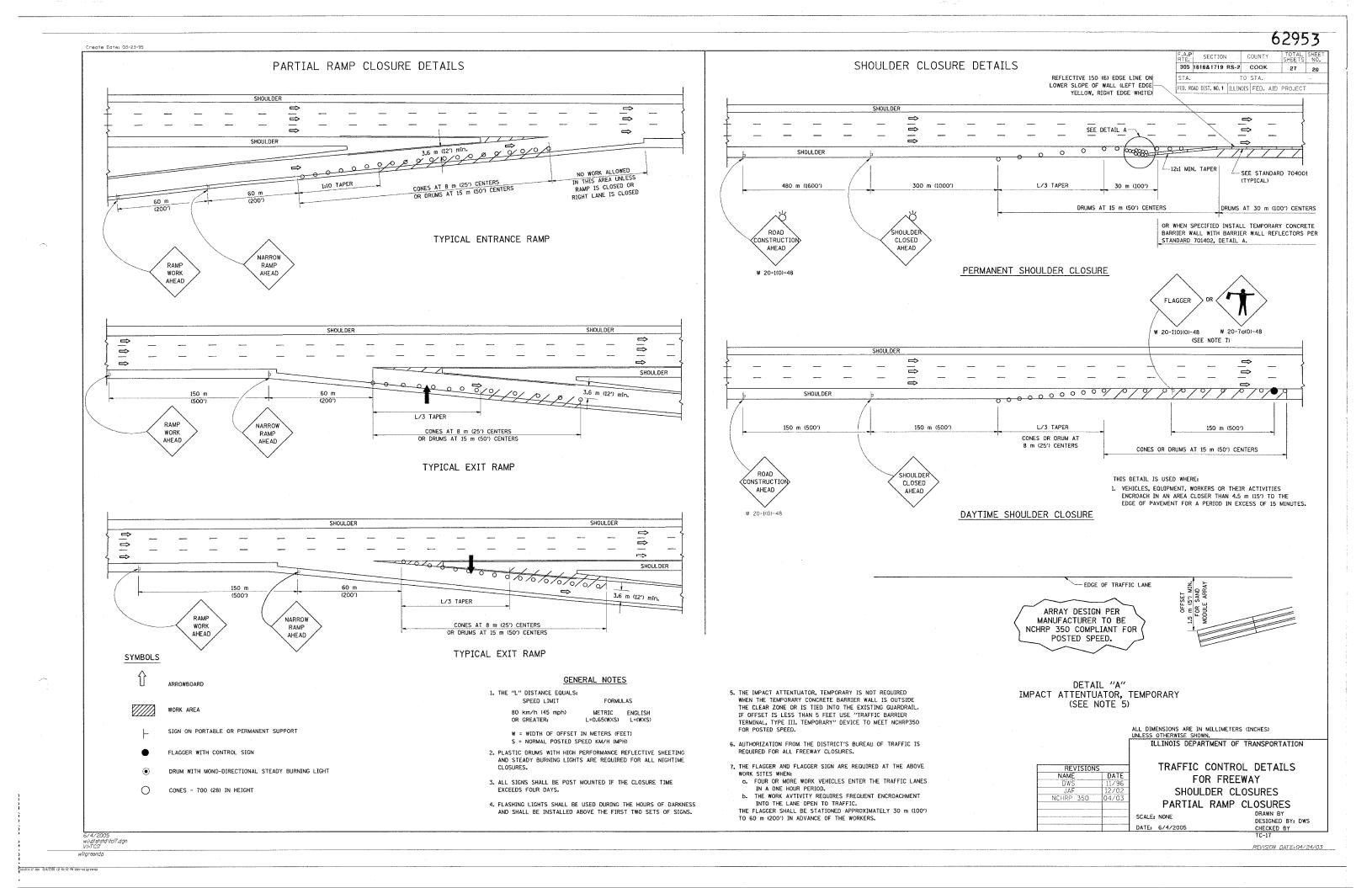


DETAIL FOR REQUIRED BARRICADES & SIGNS

NOTES:

- CONES MAY BE SUBSTITUTED FOR TYPE I AND TYPE II BARRICADES DURING DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 28" IN HEIGHT.
- 2. STEADY BURN LIGHTS WILL NOT BE REQUIRED FOR DAY OPERATIONS.
- 3. THE RAMP CLOSURE ADVANCE INFORMATION SIGNS SHALL BE ERECTED IF THE CLOSURE TIME EXCEEDS TWENTY- FOUR (24) HOURS.
- 4. ADDITIONAL ADVANCE WARNING SIGNS ON EXIT GUIDE SIGNING WILL BE REQUIRED FOR EXIT RAMP CLOSURES THAT EXCEED TWENTY FOUR (24) HOURS IN LENGTH.

6/4/2005 w:\diststd\tc08.dgn AHEAD



RTE. SECTION COUNTY 305 1616&1719 RS-2 COOK 27 21 STA. TO STA. FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT ROAD CONSTRUCTION 62953 ROAD ONSTRUCTION AHEAD TYPE III BARRICADES WITH TWO FLASHING AMBER LIGHTS ON EACH. TYPE I OR TYPE II BARRICADES WITH ONE FLASHING AMBER LIGHT ON EACH, OR TYPE III BARRICADES WITH TWO FLASHING 60 m± (200'±)-AMBER LIGHTS ON EACH. DRIVEWAY WORK AREA MPH) 150 m± (500′±) 60 m± (200'±) (40 COLLECTOR LIMIT>60 km/h (W20-1(0) ROAD ONSTRUCTION M6-4(0)-2115 AHEAD M6-1(0)-2115 ONSTRUCTION AHEAD

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 60 km/h (40 MPH) OR LESS AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
- O) ONE ROAD CONSTRUCTION AHEAD SIGN 900×900 (36x36) WITH A FLASHER AND FLAG MOUNTED ON IT APPROXIMATELY 60 m (200") 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 60 km/h (40 MPH) AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
- d) ONE ROAD CONSTRUCTION AHEAD SIGN 1.2 m \times 1.2 m (48x48) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 150 m (500') 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 (MG-1) SHALL BE USED IN LIEU OF THE DOUBLE HEADED ARROW (MG-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.

REVISIO	NS	
NAME	DATE	
LHA	6/89	TE
T. RAMMACHER	09/08/94	1 [
J. OBERLE	10/18/95	
A. HOUSEH	03/06/96	
A. HOUSEH	10/15/96	5
T. RAMMACHER	01/06/00	
		SCA

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

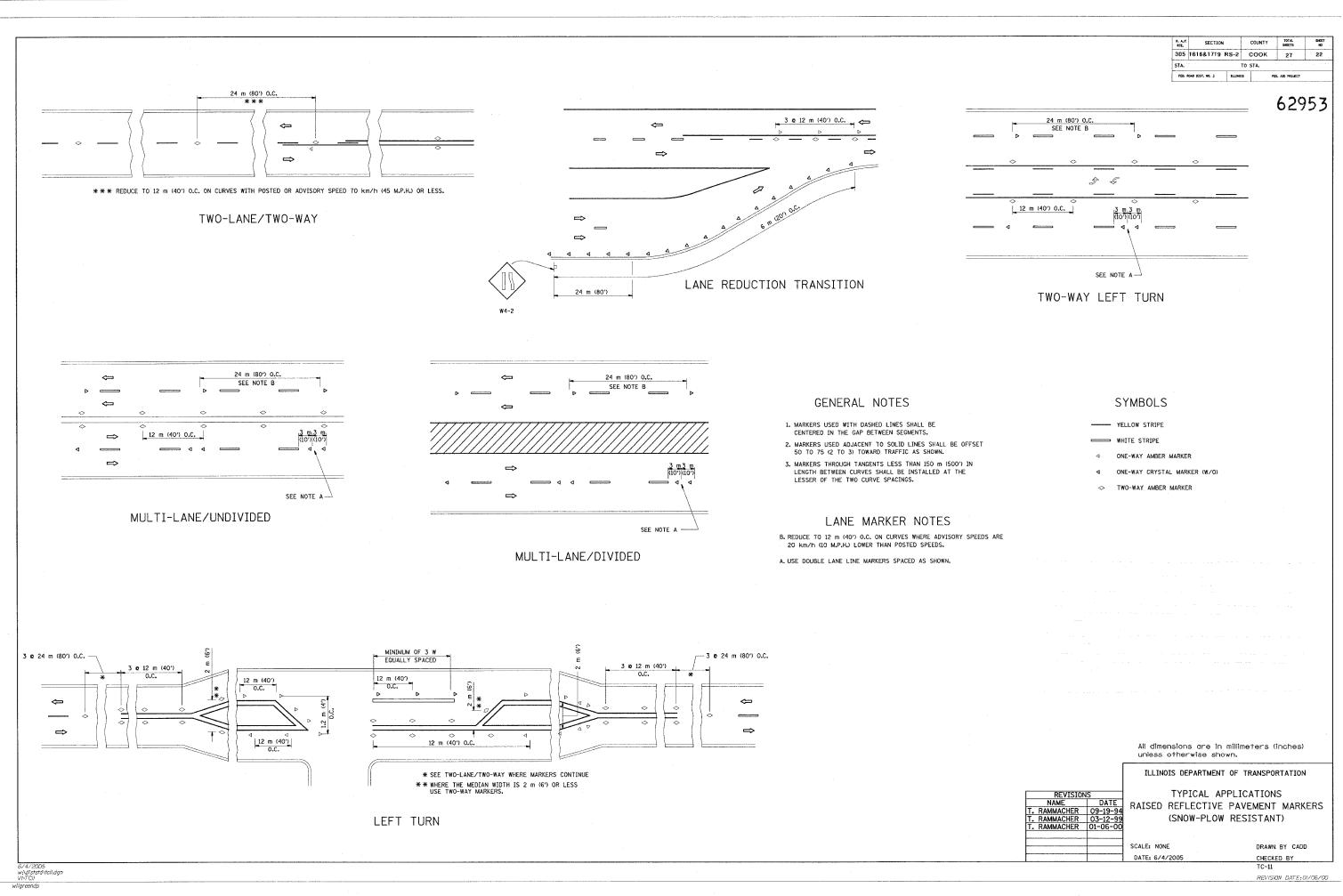
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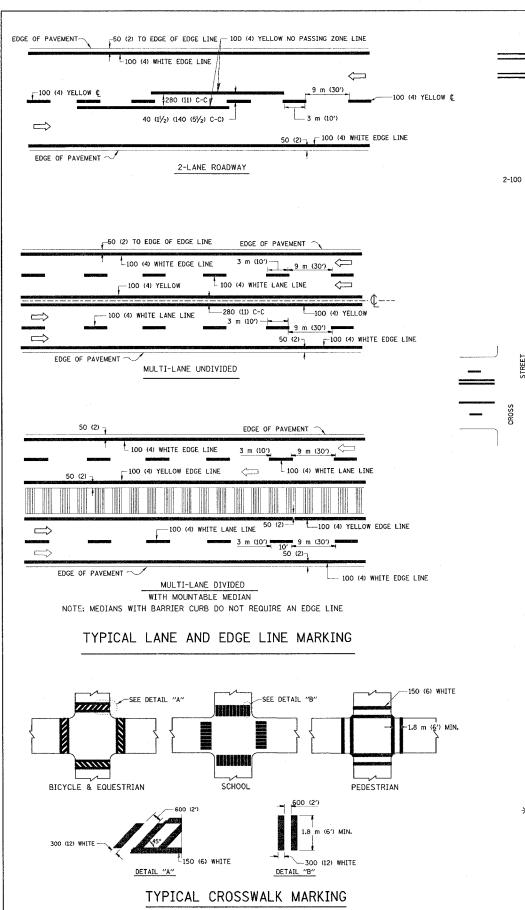
TC-10

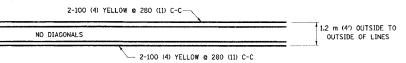
REVISION DATE: 01/06/00

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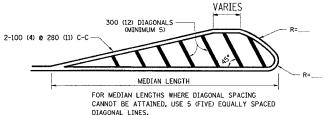


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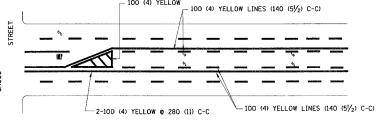


1.2 m (4') WIDE MEDIANS ONLY

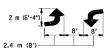


DIAGONAL LINE SPACING: 15 m (50') C-C (LESS THAN 50 km/h (30 MPH))
25 m (75') C-C (50 km/h (30 MPH) TO 70 km/h (45 MPH)) 45 m (150') C-C (MORE THAN 70 km/h (45 MPH))

MEDIANS OVER 1.2 m (4') WIDE

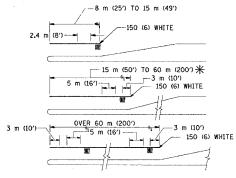


A MINIMUM OF TWO PAIRS OF TURN ARROWS SHALL BE USED, WHITE IN COLOR. ADDITIONAL PAIRS SHALL BE PLACED AT 60 m (200') TO 90 m (300') INTERVALS.



MEDIAN WITH TWO-WAY LEFT TURN LANE

TYPICAL PAINTED MEDIAN MARKING

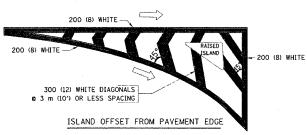


FULL SIZE LETTERS 2.4 m (8') AND ARROWS SHALL BE USED. \uphiangle AREA = 1.5 m² (15.6 SQ. FT.) \uphiangle AREA = 1.9 m² (20.8 SQ. FT.)

* 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".

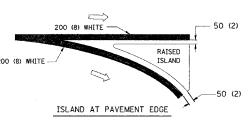
TYPICAL LEFT (OR RIGHT) TURN LANE

TYPICAL TURN LANE MARKING



F. A.F. RTE.	SECTION	١	COUNTY	TOTAL SHEETS	SMEET
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FED. F	IDAD DEST. NO. 3	ILLINOIS		ED, ALD PROJECT	

62953



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 UNDIVEDED 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 (5½) 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	SKIP-DASH AND SOLID	YELLOW	3 m (10') LINE WITH 9 m (30') SPACE FOR SKIP-DASH; 140 (5½) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE
	2.4 m (8') LEFT ARROW	IN PAIRS	WHITE	SEE TYPICAL TWO-WAY LEFT TURN MARKING DETAIL
CROSSWALK LINES (PEDESTRIAN) A. DIAGONALS (BIKE & EOUESTRIAN) 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 (1)) 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 (0VER 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 0F: "R"=0.33m2 (3.6 SQ. FT.) EACH "X"=5.0 m2 (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

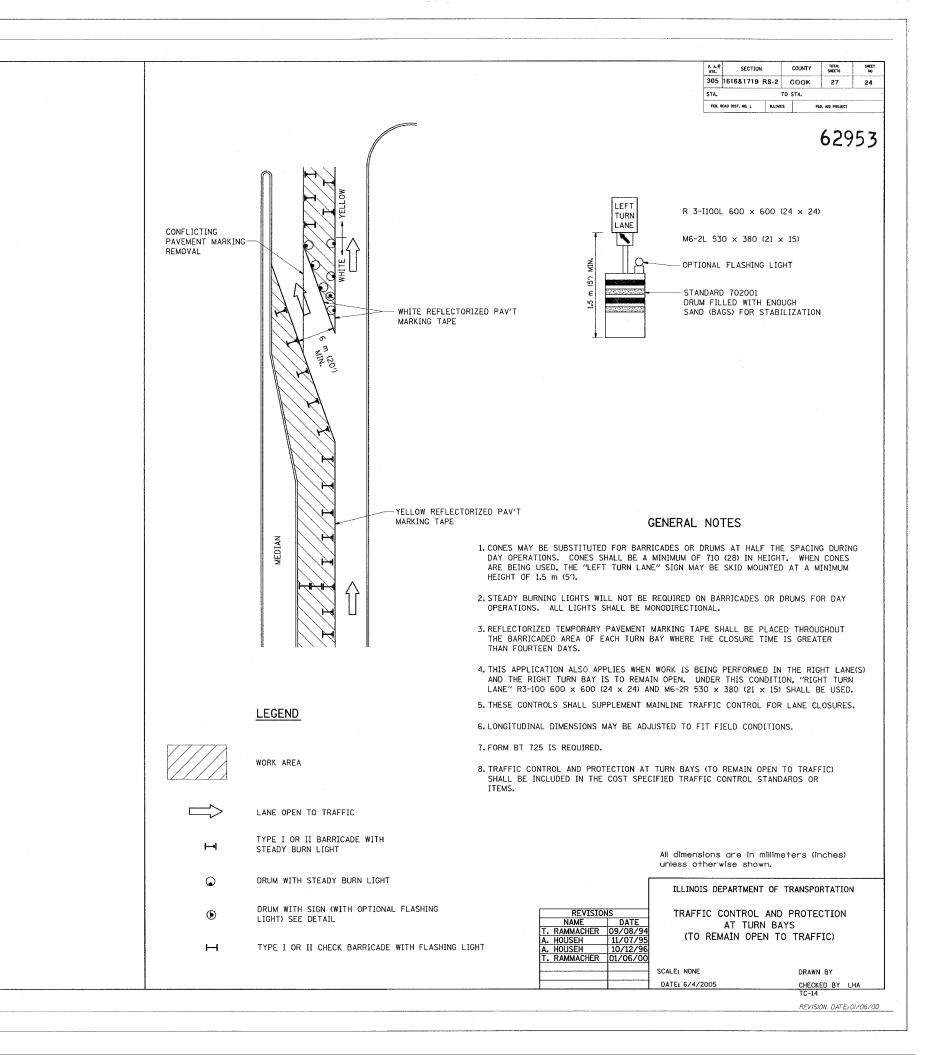
SCALE: NONE DATE 6/4/2005

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REVISION DATE: 01/06/00

6/4/2005 w:\dlststd\tel3.dgn VI-TCI3

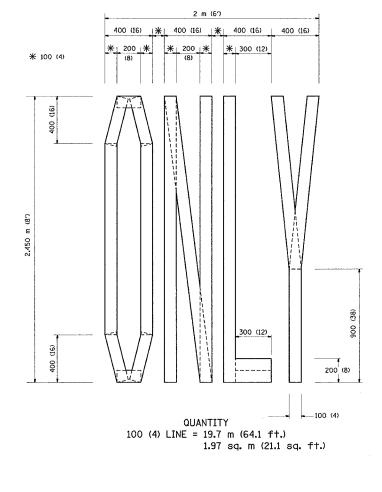
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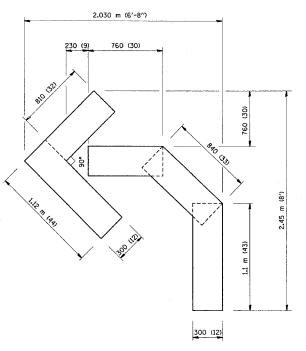


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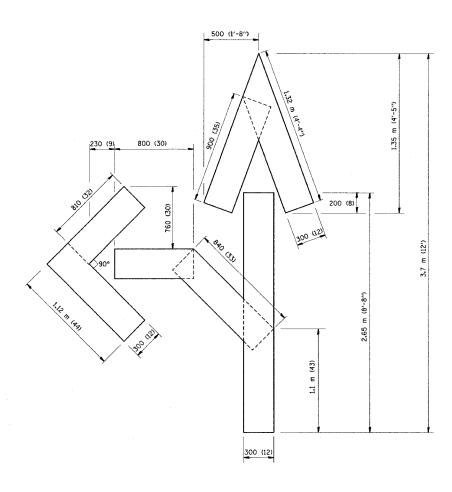
7.4° SECTION COUNTY
305 1616&1719 RS-2 COOK COUNTY TOTAL SHEETS SHEET 27 25 TO STA.

62953





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



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

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

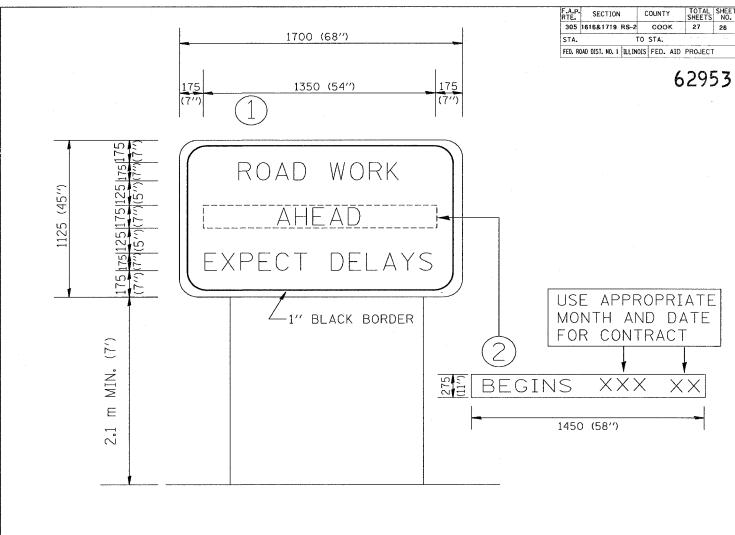
ILLINOIS DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING LETTERS AND SYMBOLS FOR TRAFFIC STAGING

SCALE: NONE DATE 6/4/2005 DRAWN BY CADD CHECKED BY TC-16

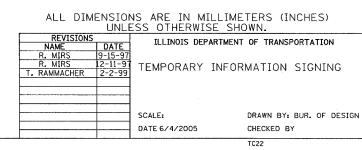
6/4/2005 w:\diststd\tcl6.dgn VI=TCl6 wilgreendp

REVISION DATE: 08/28/00



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.)



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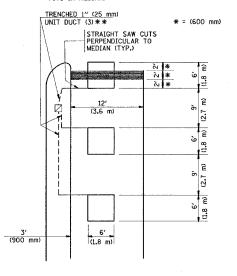
REVISION DATE: 02/02/99

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

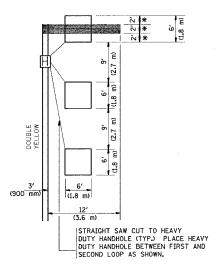
HANDHOLE LOCATION MAY VARY DEPENDING ON GEOMETRICS AND DESIGN OF TRAFFIC SIGNALS. HEAVY-DUTY HANDHOLES TO BE USED WHEN THE MEDIAN IS MOUNTABLE. REFER TO STANDARD BIGOOI TO ENSURE THAT HANDHOLE FITS IN MEDIAN.



** 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

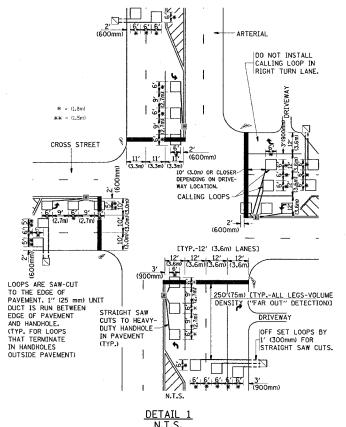
(PROTECTED / PERMITTED LEFT TURN PHASING)

* = (600 mm)

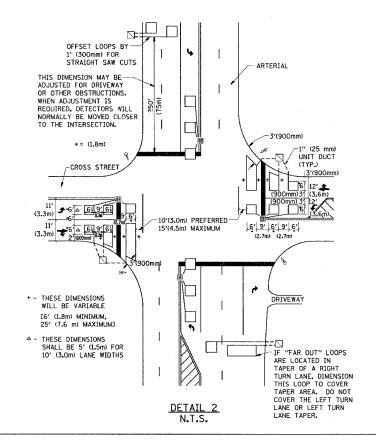


NOTE: DUAL LEFT TURNS NOT SHOWN REFER TO PLAN SHEET FOR DETECTOR LOOP REPLACEMENT

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



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



62953

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 SEPARATLY. THIS ITEM IS INCIDENTAL TO THE PAY ITEM FOR DETECTOR LOOPS.
- * ONE DIMENSION OF <u>ALL</u> 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 (1.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 $\underline{\textit{ALL}}$ 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.

	ILLINOIS DEPARTMENT OF TRANSPORTATION		
REVISIONS NAME DATE	DISTR DETECTO		
	INSTALLATIO		
	SCALE: NONE	DRAWN BY CADD DESIGNED BY	
	DATE 6/4/2005	CHECKED BY R.K.F.	

TS07

REVISION DATE:

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