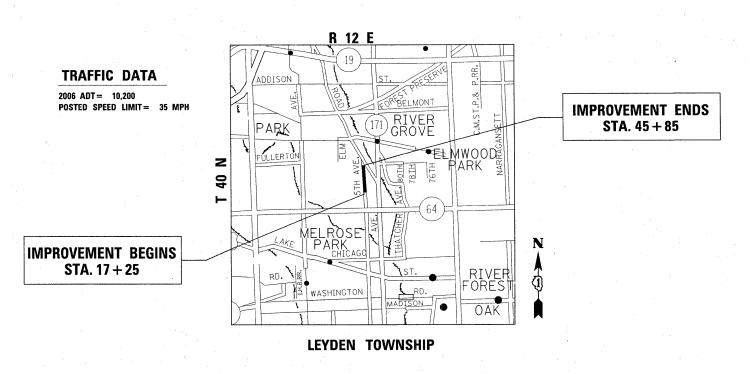
STATE OF ILLINOIS

DEPARTMENT OF TRANSPORTATION

DIVISION OF HIGHWAYS

PROPOSED HIGHWAY PLANS

FAU 2742 (5TH AVENUE)
SECTION: 3222 A-RS-1
SO DES PLAINES RIVER RD. TO SO
TRITON COLLEGE ENTRANCE
RESURFACING
COOK COUNTY
C-91-572-09



GROSS AND NET LENGTH OF IMPROVEMENT = 2,860 LIN FT = 0.54 MILE

FOR INDEX OF SHEETS, SEE SHEET NO. 2

 \circ

IMPROVEMENT LOCATED IN THE VILLAGE OF RIVER GROVE

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

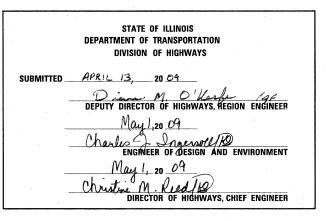
J.U.L.I.E.
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION
1-800-892-0123
OR 811

PROJECT ENGINEER: DANIEL WILGREEN /(847) 705-4240
PROJECT MANAGER: KEN ENG /(847) 705-4247

CONTRACT NO.: 60H16

D-91-572-09





PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

INDEX OF SHEETS

SHEET NO.	DESCRIPTION
1	COVER SHEET
2	INDEX OF SHEETS, STATE STANDARDS, AND GENERAL NOTES
3	SUMMARY OF QUANTITIES
4	TYPICAL SECTIONS
5-6	ROADWAY AND PAVEMENT MARKING PLANS
7	DETAILS FOR FRAMES AND LIDS ADJUSTMENTS WITH MILLING
8	PAVEMENT PATCHING FOR HMA SURFACED PAVEMENT
9	CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT
10	BUTT JOINT AND HMA TAPER DETAILS
11	TRAFFIC CONTROL AND PROTECTION FOR SIDEROADS, INTERSECTIONS, AND DRIVEWAYS
12	TYPICAL APPLICATION FOR RAISED REFLECTIVE PAVEMENT MARKERS
13	DISTRICT ONE TYPICAL PAVEMENT MARKINGS
14	TRAFFIC CONTROL AND PROTECTION AT TURN BAYS
15	PAVEMENT MARKING LETTERS AND SYMBOLS FOR TRAFFIC STAGING
16	ARTERIAL ROAD INFORMATION SIGN
17	DISTRICT ONE DETECTOR LOOP INSTALLATION DETAIL FOR ROADWAY RESURFACING

STATE STANDARDS

000001	The state of the s
442201 <i>-03</i>	CLASS C AND D PATCHES
604001 -<i>03</i>	FRAME AND LIDS, TYPE 1
606001- <i>04</i>	CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER
701301- <i>0</i> 3	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
701606 -04	URBAN LANE CLOSURE, MULTILANE 2W WITH MOUNTABLE MEDIAN
701701-06	URBAN LANE CLOSURE, MULTILANE INTERSECTION
701901 -0 1	TRAFFIC CONTROL DEVICES

000001-05 STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS

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 HOURS NOTIFICATION REQUIRED).

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

THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES AND THE VILLAGE OF RIVER GROVE.

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 1½ INCHES (40 MM) WHERE THE SPEED LIMIT IS 45 MPH (80 KM/H) OR LESS AND 1 INCH (25 MM) WHERE THE SPEED LIMIT IS GREATER THAN 45 MPH (80 KM/H). WITH WRITTEN APPROVAL FROM THE ENGINEER, A MAXIMUM GRADE DIFFERENTIAL OF 3 INCHES (75 MM) MAY BE ALLOWED IF THE EDGE OF THE MILLING IS SLOPED A MINIMUM 1:3 (V:H).

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

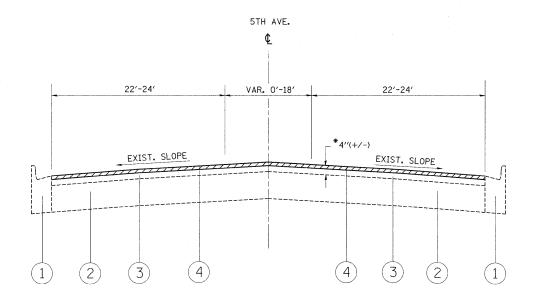
THE RESIDENT ENGINEER SHALL CONTACT MR. SCOTT KUZNICKI, AREA TRAFFIC FIELD ENGINEER AT (773) 685-8386 A MINIMUM OF 2 WEEKS PRIOR TO PLACEMENT OF PERMANENT PAVEMENT MARKING.

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

THE RESIDENT ENGINEER SHALL DETERMINE THE LOCATIONS OF CLASS "D" PATCHES.

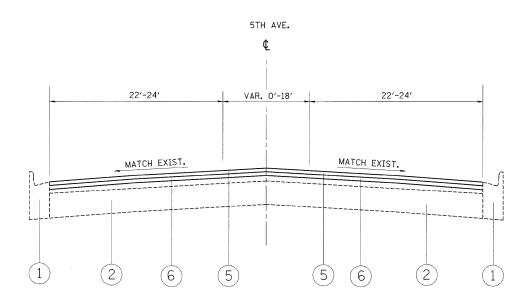
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	SUMMARY OF QUANTITIES				C	ONSTRUCT:	ION TYPE	CODE	T	$\exists \top$		SUMMARY OF QUANTITIES				С	ONSTRUCTION TY	PE CODE	
CODE NO	ITEM	UNIT	TOTAL QUANTITIES	URBAN IOOO 100% STATE							CODE NO	ITEM	UNIT	TOTAL QUANTITIES	URBAN IOOO 1OO% STATE				
40600200	BITUMINOUS MATERIALS (PRIME COAT)	TON	9	9							70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SQ FT	400	400				
40600300	AGGREGATE (PRIME COAT)	TON	42	42						*	78000100	THERMOPLASTIC PAVEMENT MARKING	SQ FT	218	218				
40600400	MIXTURE FOR CRACKS, JOINTS, AND FLANGEWAYS	TON	7	7							78000200	- LETTERS AND SYMBOLS THERMOPLASTIC PAVEMENT MARKING	FOOT	8800	8800				
40600895	CONSTRUCTING TEST STRIP	EACH	1	1							10000200	- LINE 4"	7.001	8800	8800				
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	190	190						*	78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	1570	1570				
40601005	HOT-MIX ASPHALT REPLACEMENT OVER PATCHES	TON	685	685						*	78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	1370	1370				-
40603340	HOT-MIX ASPHALT SURFACE COURSE,	TON	1790	1790						*	78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	235	235				
12001300	MIX "D", N70	SO VD	E .	_					, ,	*	78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	265	265	·			
42001300	PROTECTIVE COAT	SQ YD	5	5					. ,		88600600	DETECTOR LOOP REPLACEMENT	FOOT	500	500		+*		
42400200	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SQ FT	60	60							X0322256	TEMPORARY INFORMATION SIGNING	SQ FT	51. 4	51.4				
44000158	HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/4"	SQ YD	20683	20683							X4067107	POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50	TON	840	840				
44000600	SIDEWALK REMOVAL	șo FT	60	60							Z0018500	DRAINAGE STRUCTURES TO BE CLEANED	EACH	23	23				
44001700	COMBINATION CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT	FOOT	15	15											-				
14002216	HOT-MIX ASPHALT REMOVAL OVER PATCHES, 4"	SQ YD	3000	3000													·		
44201753	CLASS D PATCHES, TYPE II, 9 INCH	SQ YD	2140	2140	-				-						-				
14201757	CLASS D PATCHES, TYPE III, 9 INCH	SQ YD	348	348			1 .	.						-					-
14201759	CLASS D PATCHES, TYPE IV, 9 INCH	SQ YD	160	160	17 17 17		- Manual												
50300305	FRAMES AND LIDS TO BE ADJUSTED	EACH	1	1 1					-										
60300310	FRAMES AND LIDS TO BE ADJUSTED (SPECIAL)	EACH	20	20	**:														
57000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	6	6															
57100100	MOBILIZATION	L SUM	1	1												-			
70102625	TRAFFIC CONTROL AND PROTECTION, STANDARD 701606	L SUM	1	. 1 1			2												
70102635	TRAFFIC CONTROL AND PROTECTION, STANDARD 701701	L SUM	1	1	9			,											
70300100	SHORT-TERM PAVEMENT MARKING	FOOT	3510	3510		· · · · · · · · · · · · · · · · · · ·													-
70300210	TEMPORARY PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	218	218					1.										
70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	8800	8800															
70300240	TEMPORARY PAVEMENT MARKING - LINE 6"	FOOT	1570	1570	·														
0300260	TEMPORARY PAVEMENT MARKING - LINE 12"	FOOT	1370	1370			·]-					* SPECIALTY ITEMS	-						
0300280	TEMPORARY PAVEMENT MARKING - LINE 24"	FOOT	235	235								A Lamb							
		:							3		2								
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EXISTING TYPICAL SECTION

STA. 17+25 TO 45+85



PROPOSED TYPICAL SECTION

STA. 17+25 TO 45+85

LEGEND:

- (1) EXISTING COMB. CONC. CURB AND GUTTER
- (2) EXISTING PCC BASE COURSE 9" (+/-)
- (3) EXISTING HMA SURFACE COURSE, 4" (+/-)
- 4) PROPOSED HMA SURFACE REMOVAL, 2 1/4 "
- (5) PROPOSED HMA SURFACE COURSE, MIX "D", N70, 1 1/2 "
- 6 PROPOSED POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50, 3/4"
- * NOTE: CONTRACTOR SHALL PATCH FIRST BEFORE MILLING.

HOT-MIX ASPHALT MIXTU	JRE REQUIREMEN	NTS
MIXTURE USES	AC / PG	DESIGN AIR VOIDS
HMA SURFACE COURSE, MIX "D", N70 (IL-9.5 mm)	PG 64-22	4% AT 70 GYR.
POLYMERIZED LEVELING BINDER (MM), IL-4.75, N50	SBS/SBR PG 76-28/-22	4% AT 50 GYR.
CLASS D PATCHES, (HMA BINDER IL-19.0 mm)	* PG 64-22	4% AT 70 GYR.
HMA REPLACEMENT OVER PATCHES (HMA BINDER, IL-19.0 mm)	* PG 64-22	4% AT 70 GYR.

NOTES:

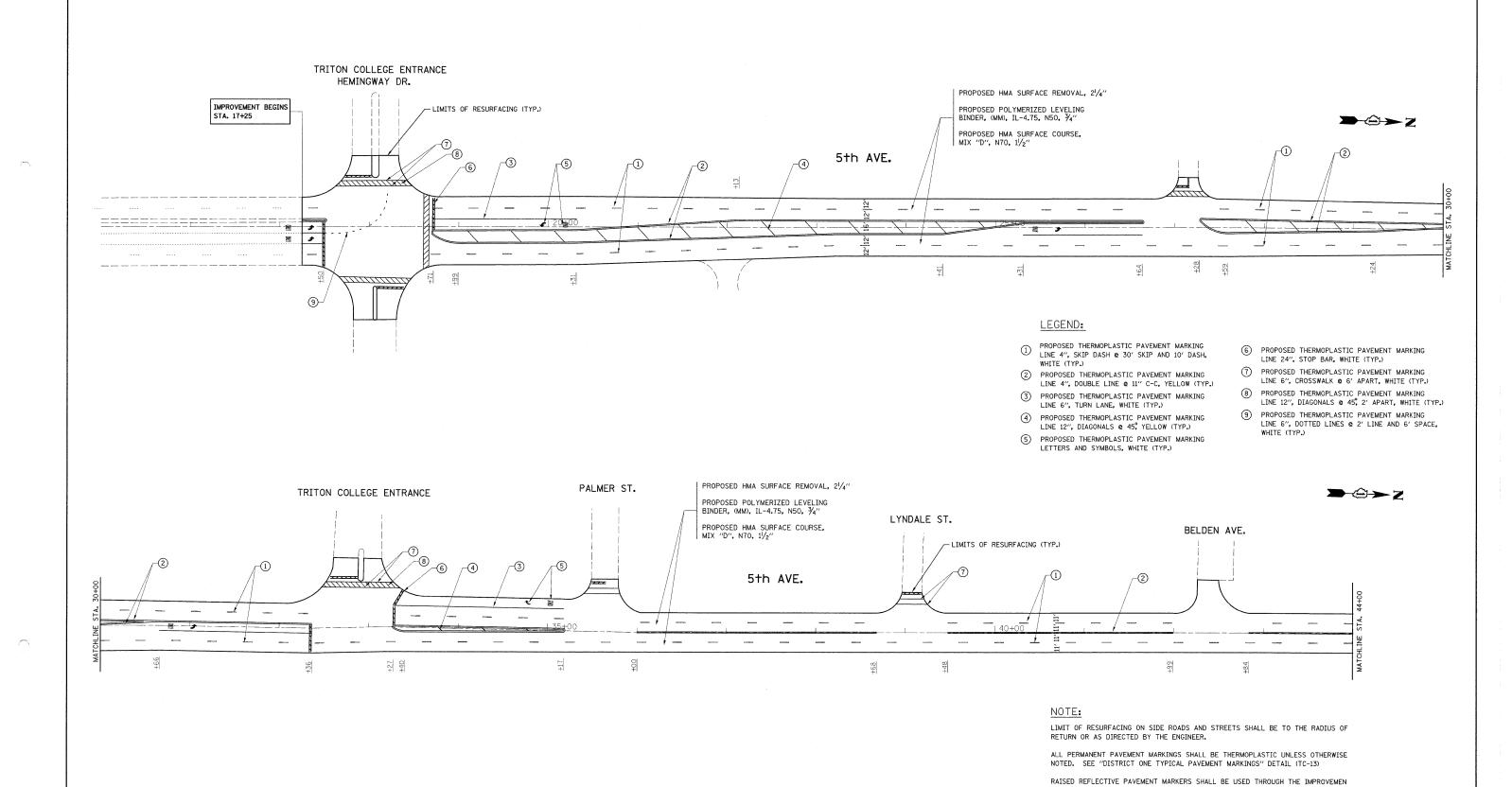
THE UNIT WEIGHT USED TO CALCULATE ALL HMA SURFACE COURSE MIXTURES IS 112 LBS/SY/IN

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

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STAT	E OF	ILLINOIS
DEPARTMENT	0F	TRANSPORTATION

EXISTING AND PROPOSED TYPICAL SECTIONS										SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5TH AVE.	(DEC	DI ATNIT	c n	RIVER RD.	ТΩ	TRITON	COLLECE	FNT	2742	3222 A-RS-1	COOK	17	4
SIR AVE.	וטבס	LLAINE	о г	TAEK KD.	10	INTION	COLLEGE	CIVI.			CONTRACT	NO.	60H16
SÇALE: 1"=5	0′	SHEET NO.	OF	SHEETS	STA.		TO STA.		FED. RO	DAD DIST. NO. 1 ILLINOIS FED. AI	D PROJECT		



STATE OF ILLINOIS

DEPARTMENT OF TRANSPORTATION

FILE NAME =

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PLOT SCALE = 50.0000 '/ IN.

PLOT DATE = 4/11/2009

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LIMITS. SEE "DISTRICT ONE TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT

TOTAL SHEE NO.

17 5

CONTRACT NO. 60H16

COUNTY

COOK

SECTION

3222 A-RS-1

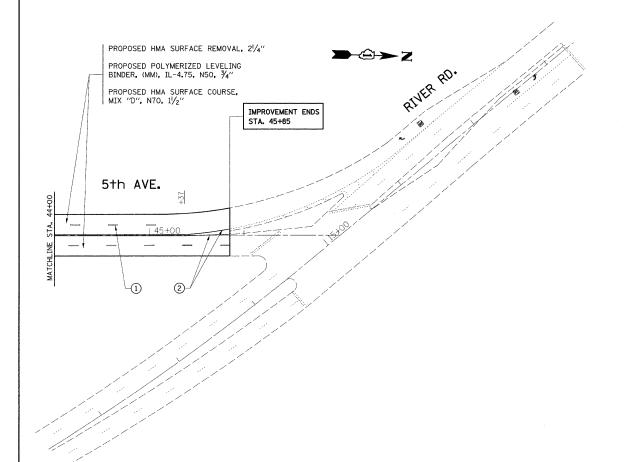
2742

MARKERS" DETAIL (TC-11)

ROADWAY AND PAVEMENT MARKING PLANS

5TH AVE. (DES PLAINES RIVER RD. TO TRITON COLLEGE ENT.

SCALE: 1"=50" SHEET NO. OF SHEETS STA.



LEGEND:

- (1) PROPOSED THERMOPLASTIC PAVEMENT MARKING LINE 4", SKIP DASH @ 30' SKIP AND 10' DASH, WHITE (TYP.)
- 2 PROPOSED THERMOPLASTIC PAVEMENT MARKING LINE 4", DOUBLE LINE @ 11" C-C, YELLOW (TYP.)
- 3 PROPOSED THERMOPLASTIC PAVEMENT MARKING LINE 6", TURN LANE, WHITE (TYP.)
- PROPOSED THERMOPLASTIC PAVEMENT MARKING LINE 12", DIAGONALS & 45, YELLOW (TYP.)
- (5) PROPOSED THERMOPLASTIC PAVEMENT MARKING LETTERS AND SYMBOLS, WHITE (TYP.)
- 6 PROPOSED THERMOPLASTIC PAVEMENT MARKING LINE 24", STOP BAR, WHITE (TYP.)
- (7) PROPOSED THERMOPLASTIC PAVEMENT MARKING LINE 6", CROSSWALK @ 6' APART, WHITE (TYP.)
- (8) PROPOSED THERMOPLASTIC PAVEMENT MARKING LINE 12", DIAGONALS @ 45, 2' APART, WHITE (TYP.)
- 9 PROPOSED THERMOPLASTIC PAVEMENT MARKING LINE 6", DOTTED LINES @ 2' LINE AND 6' SPACE, WHITE (TYP.)

NOTE:

LIMIT OF RESURFACING ON SIDE ROADS AND STREETS SHALL BE TO THE RADIUS OF RETURN OR AS DIRECTED BY THE ENGINEER.

ALL PERMANENT PAVEMENT MARKINGS SHALL BE THERMOPLASTIC UNLESS OTHERWISE NOTED. SEE "DISTRICT ONE TYPICAL PAVEMENT MARKINGS" DETAIL (TC-13)

RAISED REFLECTIVE PAVEMENT MARKERS SHALL BE USED THROUGH THE IMPROVEMEN LIMITS. SEE "DISTRICT ONE TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS" DETAIL (TC-11)

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

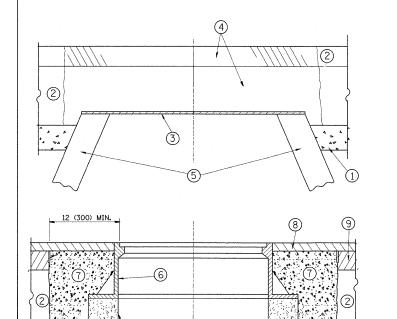
ROADWAY AND PAVEMENT MARKING PLANS

5TH AVE. (DES PLAINES RIVER RD. TO TRITON COLLEGE ENT.

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

FAAU. RTE. SECTION COUNTY TOTAL SHEETS NO. 2742 3222 A-RS-1 COOK 17 6

CONTRACT NO. 60H16



PROPOSED

PROPOSED

SAND FILL

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

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

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

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

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

UNLESS A SEPARATE PAY ITEM HAS BEEN PROVIDED.

BRICK, MORTAR, OR CONC. ADJUSTING RINGS

* * * *

NOTES:

CONSTRUCTION PROCEDURES

STAGE 1 (BEFORE PAVEMENT MILLING)

- A) REMOVE A MINIMUM OF 12 (300) OF THE PAVEMENT FROM AROUND THE STRUCTURE.
- B) REMOVE THE EXISTING FRAME AND LID FROM THE STRUCTURE.
- C) COVER THE STRUCTURE OPENING WITH A 36 (900) DIAMETER METAL PLATE.
- D) BACKFILL WITH CRUSHED STONE AND A MINIMUM 11/2 (40) THICK HMA SURFACE MIX APPROVED BY THE ENGINEER.

STAGE 2 (AFTER PAVEMENT MILLING)

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

1 SUB-BASE GRANULAR MATERIAL

PROPOSED SAND FILL

- 2 EXISTING PAVEMENT
- 3 36 (900) DIAMETER METAL PLATE
- PROPOSED CRUSHED STONE AND HMA SURFACE MIX
- 5 EXISTING STRUCTURE

- 6 FRAME AND LID (SEE NOTES)
- CLASS SI CONCRETE, HMA SURFACE COURSE OR HMA BINDER COURSE
- 8 PROPOSED HMA SURFACE COURSE
- 9 PROPOSED HMA 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: THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER EACH FOR "FRAMES AND LIDS TO BE ADJUSTED, SPECIAL"

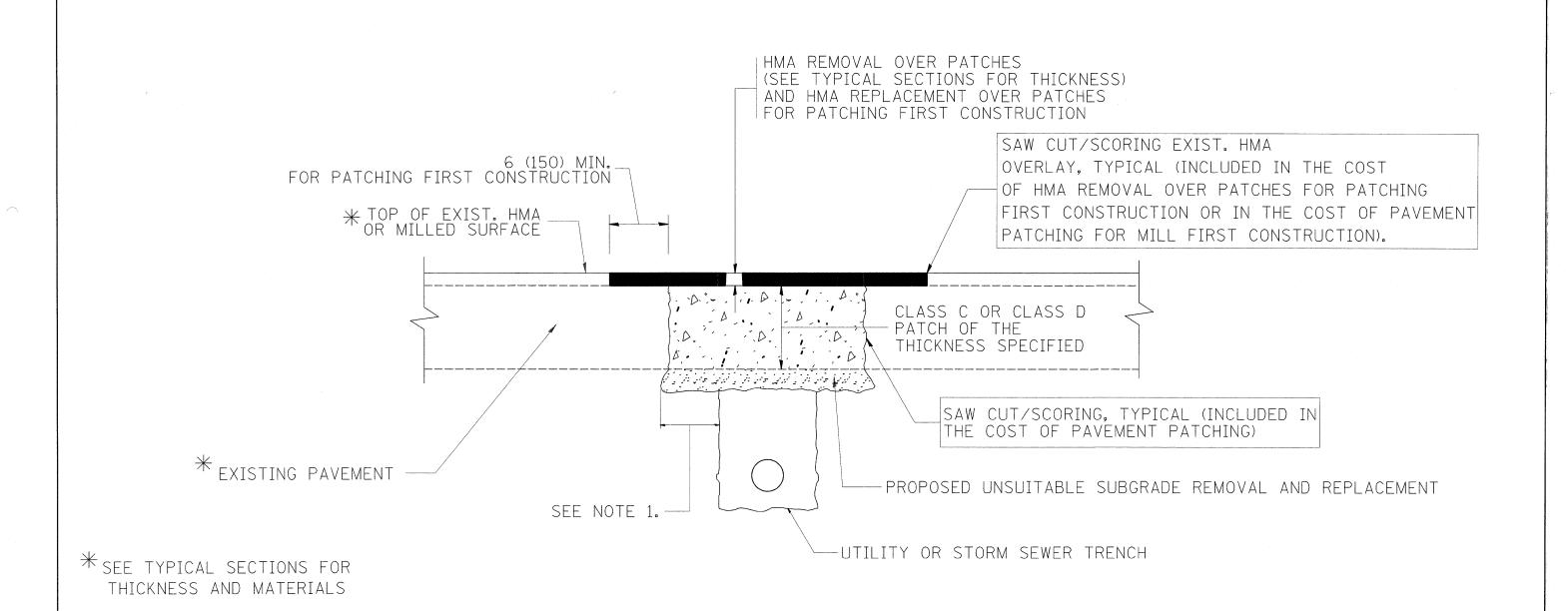
NEW FRAMES AND LIDS, WHEN SPECIFIED, WILL BE PAID FOR SEPARATELY.

DETAILS FOR FRAMES AND LIDS ADJUSTMENT WITH MILLING

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN

> COOK 17 CONTRACT NO. 60H16

FILE NAME =	USER NAME = shiranisb	DESIGNED - R. SHAH	REVISED - R. SHAH 03-10-95			DETAILS FOR		F.A.U.	SECTION	
P:\5th Ave\bdØ8.dgn	DRAWN - REVISED - A. ABBA		REVISED - A. ABBAS 03-21-97	STATE OF ILLINOIS		2742	3222 A-RS-1	 -1		
·	PLOT SCALE = 49.9999 '/ IN.	CHECKED -	REVISED - R. WIEDEMAN 05-14-04	DEPARTMENT OF TRANSPORTATION		FRAMES AND LIDS ADJUSTMENT WITH MILI	LING	BD6	600-03 (BD-8)	<u>.</u>
	PLOT DATE = 4/8/2009	DATE - 10-25-94	REVISED - R. BORO 01-01-07		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS STA.	TO STA.	FED. ROAD DI	IST. NO. 1 ILLINO	DIS FED.



NOTES:

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

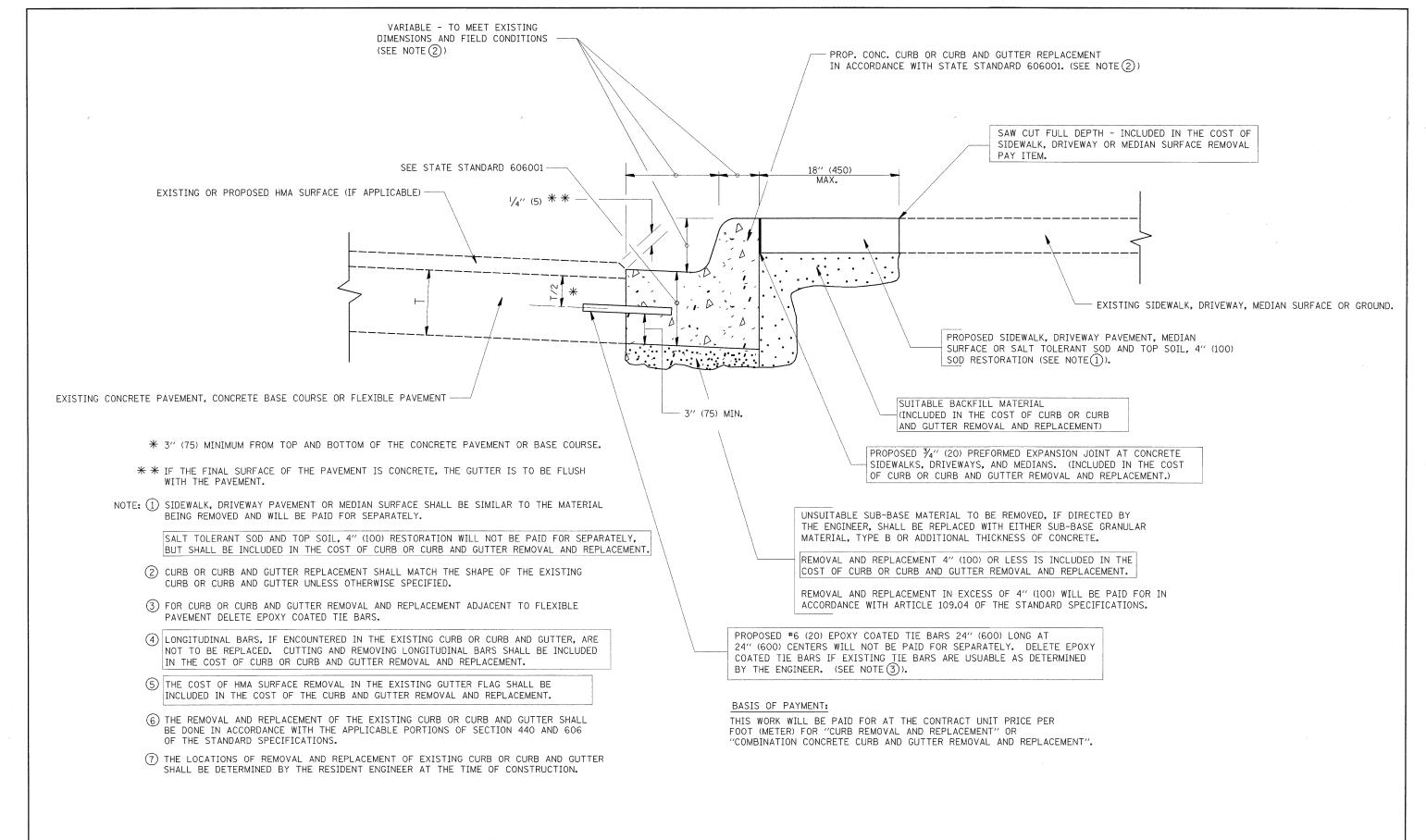
SEQUENCE OF CONSTRUCTION (PATCHING FIRST)

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

SEQUENCE OF CONSTRUCTION (MILLING FIRST)

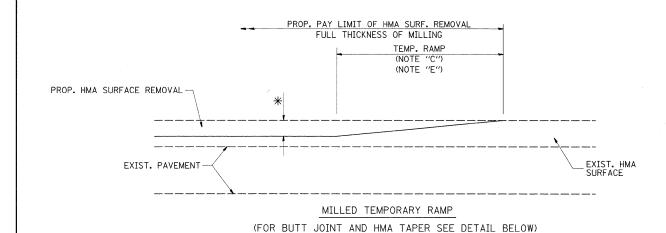
- 1. MILL HMA FIRST IF THERE IS AT LEAST 41/2 INCHES OR MORE OF HMA MATERIAL ON TOP OF THE EXISTING PAVEMENT OR IF THE PAVEMENT IS FULL DEPTH HMA. A MINIMUM OF 2 INCHES OF HMA MATERIAL SHALL BE IN PLACE AFTER MILLING.
- 2. REMOVE AND REPLACE WITH FULL DEPTH CLASS D PATCHES TO TOP OF MILLED SURFACE.

FILE NAME =	USER NAME = shiranisb	DESIGNED - R. SHAH	REVISED - A. ABBAS 04-27-98		PAVEMENT PATCHING FOR	F.A.U.	SECTION	COUNTY	TOTAL SHEET
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	PLOT SCALE = 50.000 '/ IN.	CHECKED -	REVISED - R. BORO 09-04-07	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION SCALE:	HMA SURFACED PAVEMENT	BD4	400-04 (BD-22)	CONTRACT	T NO. 60H16
	PLOT DATE = 4/8/2009	DATE - 10-25-94	REVISED - K. ENG 10-27-08		SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.	FED. ROAD D	DIST. NO. 1 ILLINOIS FED.	AID PROJECT	Accessed to the contract of th

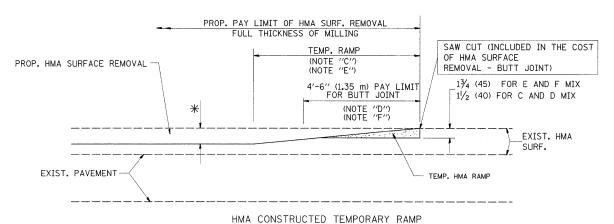


CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT

L		PLOT DATE = 4/8/2009 DATE - 03-11-94	DATE - 03-11-94	REVISED - R.	. BORO 01-01-07		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS STA.	TO STA.	FED. ROA		AID PROJECT		
		PLOT SCALE = 50.000 '/ IN.	CHECKED -	REVISED - M.	GOMEZ 01-22-01	DEPARTMENT OF TRANSPORTATION		REMOVAL AND REPLACEMENT		BD600-06 (BD-24)			CT NO. 60	H16
	P:\5th Ave\bd24.dgn		DRAWN -	REVISED - A.	ABBAS 03-21-97	STATE OF ILLINOIS				2742	3222 A-RS-1	COOK	17	9
Ī	FILE NAME =	USER NAME = shiranisb	DESIGNED - A. HOUSEH	REVISED - R.	SHAH 10-03-96			CURB OR CURB AND GUTTER		F.A.U.	SECTION	COUNTY	TOTAL SI	HEET



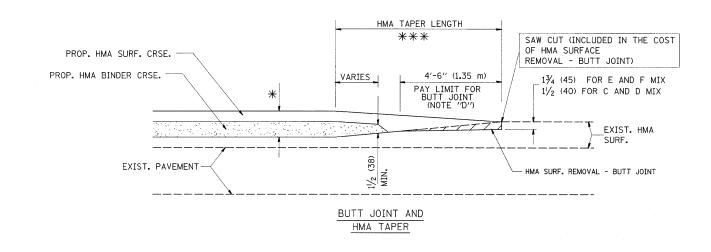
OPTION 1



(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

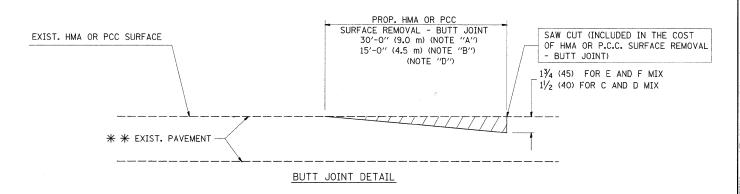
OPTION 2

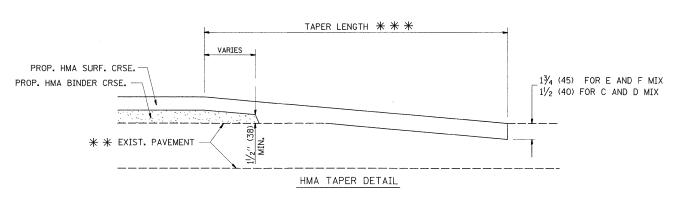
TYPICAL TEMPORARY RAMP



TYPICAL BUTT JOINT AND HMA TAPER FOR MILLING AND RESURFACING

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION





TYPICAL BUTT JOINT AND HMA TAPER FOR RESURFACING ONLY

* * PC CONCRETE, HMA OR HMA RESURFACED PAVEMENT.

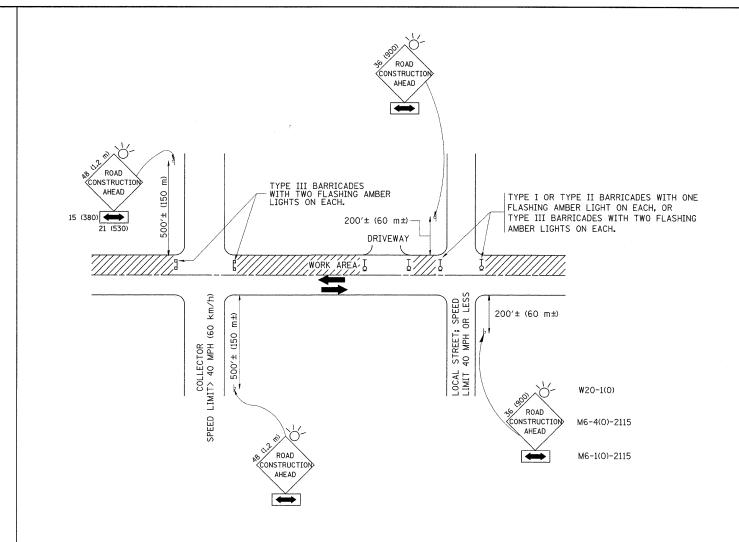
NOTES

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

BASIS OF PAYMENT:

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

SCALE: NONE



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

NOTES:

- A. FOR NO LANE RESTRICTION ON THE SIDE ROAD OR DRIVEWAYS
- 1. SIDE ROAD WITH A SPEED LIMIT OF 40 MPH (60 km/h) OR LESS AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
- O) ONE ROAD CONSTRUCTION AHEAD SIGN 36×36 (900×900) WITH A FLASHER AND FLAG MOUNTED ON IT APPROXIMATELY 200' (60 m) IN ADVANCE OF THE MAIN ROUTE.
- b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE I, TYPE II OR TYPE III BARRICADES, 1/3 OF THE CROSS SECTION OF THE CLOSED PORTION.
- 2. SIDE ROAD WITH A SPEED LIMIT GREATER THAN 40 MPH (60 km/h) AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
- q) ONE ROAD CONSTRUCTION AHEAD SIGN 48 \times 48 (1.2 m \times 1.2 m) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 500' (150 m) IN ADVANCE OF THE MAIN ROUTE.
- b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE III BARRICADES, 1/2 OF THE CROSS SECTION OF THE CLOSED PORTION.
- 3. WHEN THE SIDE ROAD LIES BETWEEN THE BEGINNING OF THE MAINLINE SIGNING AND THE WORK ZONE, A SINGLE HEADED ARROW (MG-1) SHALL BE USED IN LIEU OF THE DOUBLE HEADED ARROW (MG-4).

SCALE: NONE

B. FOR A LANE CLOSURE ON A SIDE ROAD OR DRIVEWAY:

USE APPLICABLE PORTIONS OF THE TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES (STD. 701501, STD. 701606 OR THE APPROPRIATE STANDARD). THE SPACING OF SIGNS AND BARRICADES SHALL BE ADJUSTED FOR FIELD CONDITIONS AS DIRECTED BY THE ENGINEER. THE DIRECTIONAL ARROW SHALL BE COVERED OR REMOVED WHEN NO LONGER CONSISTENT WITH THE SIDE ROAD LANE CLOSURE.

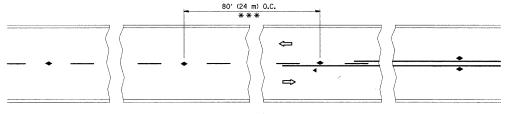
- C. ADVANCE WARNING SIGNS ARE TO BE OMITTED ON DRIVEWAY UNLESS OTHERWISE NOTED.
- D. THE TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS SHALL BE INCIDENTAL TO THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

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

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

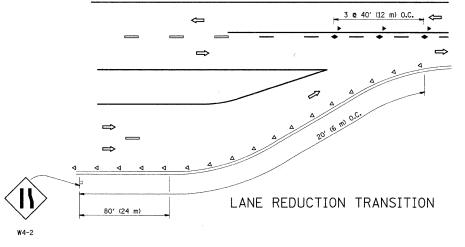
TRAFFIC CONTROL AND PROTECTION FOR
SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS

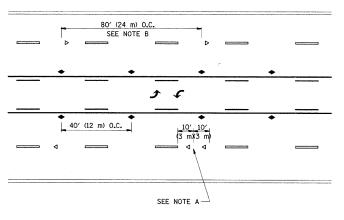
SHEET NO. 1 OF 1 SHEETS STA. TO



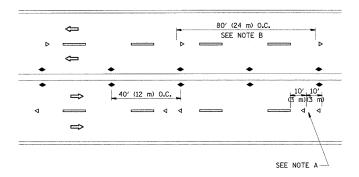
*** REDUCE TO 40' (12 m) O.C. ON CURVES WITH POSTED OR ADVISORY SPEED 45 M.P.H. (70 km/h) OR LESS.

TWO-LANE/TWO-WAY





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 2 TO 3 (50 TO 75) TOWARD TRAFFIC AS SHOWN.
- 3. MARKERS THROUGH TANGENTS LESS THAN 500' (150 m) IN LENGTH BETWEEN CURVES SHALL BE INSTALLED AT THE LESSER OF THE TWO CURVE SPACINGS.

LANE MARKER NOTES

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

SYMBOLS

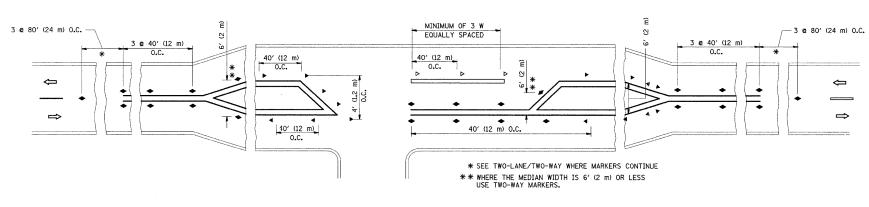
YELLOW STRIPE

---- WHITE STRIPE

- ONE-WAY AMBER MARKER
- → ONE-WAY CRYSTAL MARKER (W/O)
- ◆ TWO-WAY AMBER MARKER

DESIGN NOTES

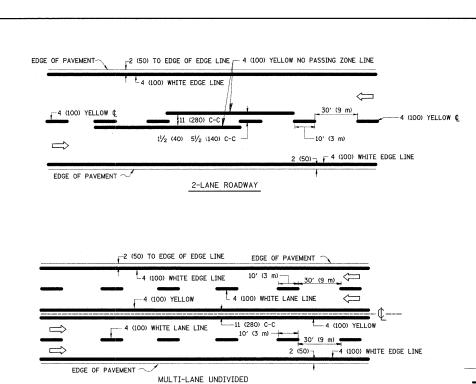
- 1. DOUBLE LANE LINE MARKERS SHALL BE USED UNLESS SPECIFIED OTHERWISE.
- 2. EXCEPT AS SHOWN ON THE LANE REDUCTION TRANSITION AND FREEWAY EXIT RAMP DETAIL, MARKERS ARE NOT TO BE SPECIFIED ON RIGHT EDGE LINES
- 3. THE EXACT MARKER LIMITS, SPACING, AND COLOR SHOULD BE INCLUDED IN THE PLANS.
- MARKERS SHOULD NOT BE USED ALONGSIDE CURBS EXCEPT FOR EXTREMELY SHORT SECTIONS OF CURBS WHERE NOT MORE THAN TWO MARKERS WOULD BE INVOLVED.

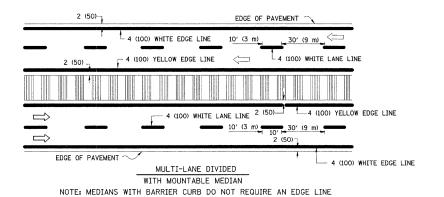


LEFT TURN

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

FILE NAME =	USER NAME = shiranisb	DESIGNED -	REVISED - T. RAMMACHER 09-19-94		TYPICAL APPLICATIONS	F.A.U. SECTION	COUNTY TOTAL SHEET
P:\5th Ave\tc11.dgn		DRAWN -	REVISED - T. RAMMACHER 03-12-99	STATE OF ILLINOIS	,	2742 3222 A-RS-1	COOK 17 12
	PLOT SCALE = 50.000 '/ IN.	CHECKED -	REVISED -T. RAMMACHER 01-06-00	DEPARTMENT OF TRANSPORTATION	RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT)	TC-11	CONTRACT NO. 60H16
	PLOT DATE = 4/8/2009	DATE -	REVISED -		SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.		AID PROJECT

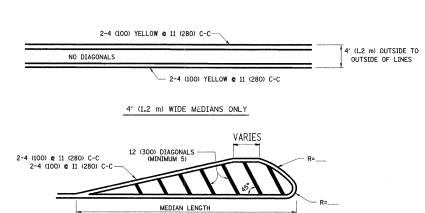




TYPICAL LANE AND EDGE LINE MARKING

BICYCLE & EQUESTRIAN SCHOOL PEDESTRIAN 12 (300) WHITE DETAIL "A" DETAIL "A" SEE DETAIL "B" 6 (150) WHITE DETAIL "B" SEE DETAIL "B" 6 (150) WHITE DETAIL "B"

TYPICAL CROSSWALK MARKING



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

4 (100) YELLOW 4 (100) YELLOW LINES (5½ (140) C-C) 88 -2-4 (100) YELLOW 2 11 (280) C-C 4 (100) YELLOW LINES (5½ (140)

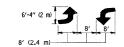
FOR MEDIAN LENGTHS WHERE DIAGONAL SPACING

MEDIANS OVER 4' (1.2 m) WIDE

DIAGONAL LINES.

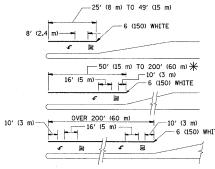
CANNOT BE ATTAINED, USE 5 (FIVE) EQUALLY SPACED

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



MEDIAN WITH TWO-WAY LEFT TURN LANE

TYPICAL PAINTED MEDIAN MARKING

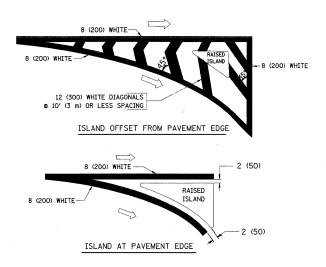


FULL SIZE LETTERS 8' (2.4 m) AND ARROWS SHALL BE USED. \P AREA = 15.6 SQ. FT. (1.5 m²) \P AREA = 20.8 SQ. FT. (1.9 m²)

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

TYPICAL LEFT (OR RIGHT) TURN LANE

TYPICAL TURN LANE MARKING



TYPICAL ISLAND MARKING

TYPE OF MARKING	WIDTH OF LINE	PATTERN	COLOR	SPACING / REMARKS
CENTERLINE ON 2 LANE PAVEMENT	4 (100)	SKIP-DASH	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE
CENTERLINE ON MULTI-LANE UNDIVEDED PAVEMENT	2 & 4 (100)	SOLID	YELLOW	11 (280) C-C
NO PASSING ZONE LINES: FOR ONE DIRECTION FOR BOTH DIRECTIONS	4 (100) 2 2 4 (100)	SOLID SOLID	YELLOW YELLOW	5½ (140) C-C FROM SKIP-DASH CENTERLINE 11 (280) C-C OMIT SKIP-DASH CENTERLINE BETWEEN
LANE LINES	4 (100) 5 (125) ON FREEWAYS	SKIP-DASH SKIP-DASH	WHITE WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE
DOTTED LINES (EXTENSIONS OF CENTER, LANE OR TURN LANE MARKINGS)	SAME AS LINE BEING EXTENDED	SKIP-DASH	SAME AS LINE BEING EXTENDED	2' (600) LINE WITH 6' (1.8 m) SPACE
EDGE LINES	4 (100)	SOLID	YELLOW-LEFT WHITE-RIGHT	OUTLINE MOUNTABLE MEDIANS IN YELLOW; EDGE LINES ARE NOT USED NEXT TO BARRIER CURB
TURN LANE MARKINGS	6 (150) LINE; FULL SIZE LETTERS & SYMBOLS (8' (2.4m))	SOLID	WHITE	SEE TYPICAL TURN LANE MARKING DETAIL
TWO WAY LEFT TURN MARKING	2 @ 4 (100) EACH DIRECTION	SKIP-DASH AND SOLID	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE FOR SKIP-DASH; 5½ (140) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE
	8' (2.4m) LEFT ARROW	IN PAIRS	WHITE	SEE TYPICAL TWO-WAY LEFT TURN MARKING DETAIL
CROSSWALK LINES (PEDESTRIAN) A. DIAGONALS (BIKE & EQUESTRIAN) B. LONGITUDINAL BARS (SCHOOL)	2 @ 6 (150) 12 (300) @ 45° 12 (300) @ 90°	SOLID SOLID SOLID	WHITE WHITE WHITE	NOT LESS THAN 6' (1.8 m) APART 2' (600) APART 2' (600) APART 5EE TYPICAL CROSSWALK MARKING DETAILS.
STOP LINES	24 (600)	SOLID	WHITE	PLACE 4' (1.2 m) IN ADVANCE OF AND PARALLEL TO CROSSWALK, IF PRESENT. OTHERWISE, PLACE AT DESIRED STOPPING POINT. PARALLEL TO CROSSROAD CENTERLINE, WHERE POSSIBLE
PAINTED MEDIANS	2 @ 4 (100) WITH 12 (300) DIAGONALS	SOLID	YELLOW: TWO WAY TRAFFIC	11 (280) C-C FOR THE DOUBLE LINE
	e 45° NO DIAGONALS USED FOR 4' (1.2 m) WIDE MEDIANS		WHITE: ONE WAY TRAFFIC	SEE TYPICAL PAINTED MEDIAN MARKING.
GORE MARKING AND CHANNELIZING LINES	8 (200) WITH 12 (300) DIAGONALS @ 45°	SOLID	WHITE	DIAGONALS: 15' (4,5 m) C-C (LESS THAN 30MPH (50 km/h)) 20' (6 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h)) 30' (9 m) C-C (0VER 45MPH (70 km/h))
RAILROAD CROSSING	24 (600) TRANSVERSE LINES; "RR" IS 6' (1.8 m) LETTERS; 16 (400) LINE FOR "X"	SOLID	WHITE	SEE STATE STANDARD 780001 AREA OF: "R"=3.6 SO. FT. (0.33 m²) EACH "X"=54.0 SO. FT. (5.0 m²)
SHOULDER DIAGONALS	12 (300) & 45°	SOLID	WHITE - RIGHT YELLOW - LEFT	50' (15 m) C-C (LESS THAN 30MPH (50 km/h)) 75' (25 m) C-C (30 MPH (50 km/h) T0 45MPH (70 km/h)) 150' (45 m) C-C (OVER 45MPH (70 km/h))

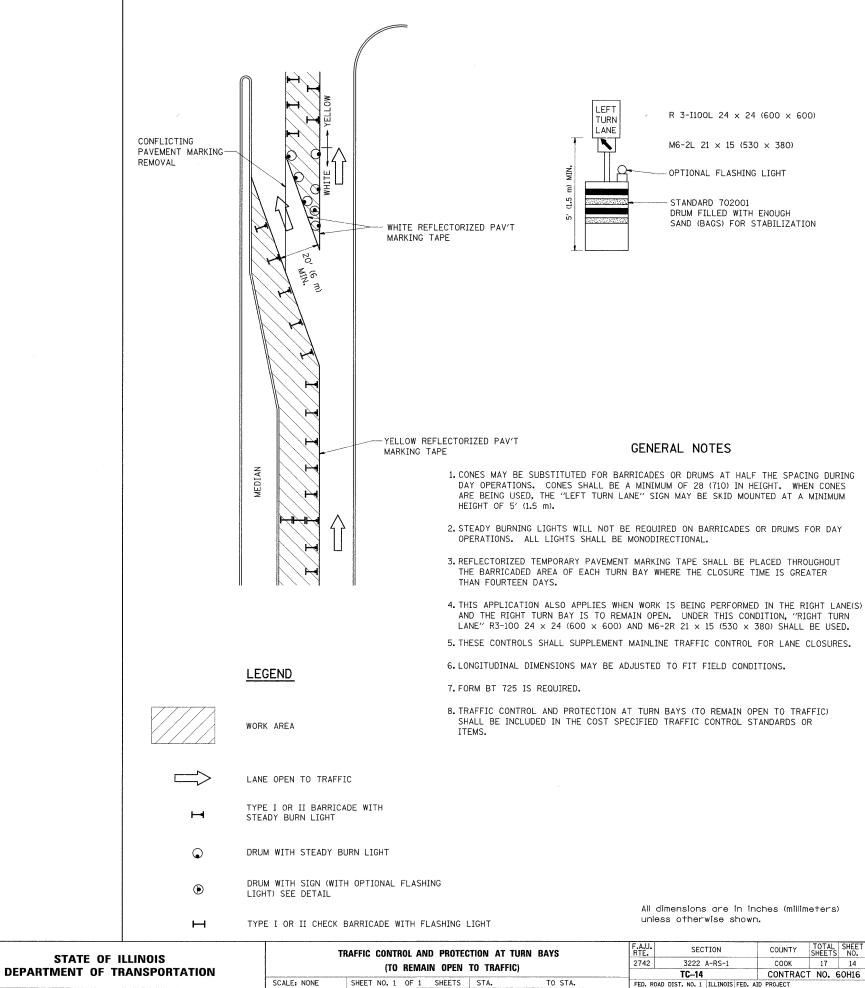
FOR FURTHER DETAILS ON PAVEMENT MARKING REFER TO STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND STATE STANDARD 780001.

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

FILE NAME =	USER NAME = shiranisb	DESIGNED - EVERS	REVISED -T. RAMMACHER 10-27-94
P:\5th Ave\tc13.dgn		DRAWN -	REVISED -A. HOUSEH 10-09-96
	PLOT SCALE = 50.000 '/ IN.	CHECKED ~	REVISED -A. HOUSEH 10-17-96
	PLOT DATE = 4/8/2009	DATE - 03-19-90	REVISED -T. RAMMACHER 01-06-00

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

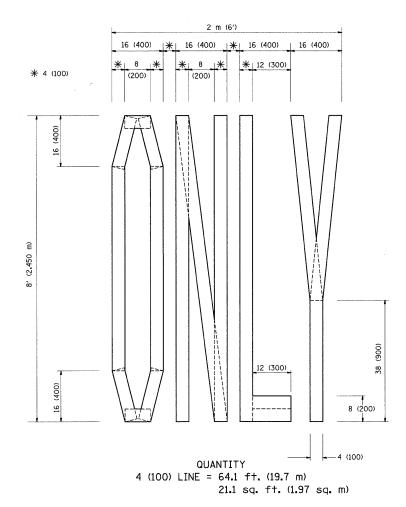
	DISTRICT ONE TYPICAL PAVEMENT MARKINGS				SECTION	COUNTY TOTAL SHEETS		SHEET NO.	
					3222 A-RS-1	соок	17	13	
				TC-13	CONTRACT NO. 60H16				
	SCALE: NONE	SHEET NO. 1 OF 1 SHEETS STA.	TO STA.	FED. RO	DAD DIST. NO. 1 ILLINOIS FED. AL	ID PROJECT			

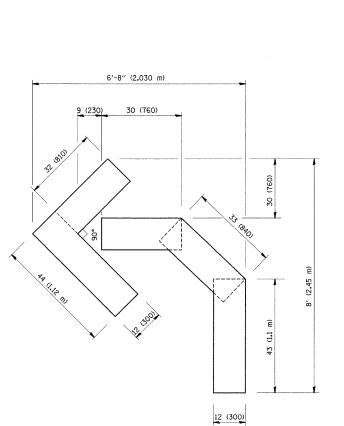


FILE NAME = DESIGNED REVISED -T. RAMMACHER 09-08-94 JSER NAME = shiranisb DRAWN REVISED - A. HOUSEH 11-07-95 P:\5th Ave\tc14.dgn PLOT SCALE = 49.9999 '/ IN. CHECKED REVISED - A. HOUSEH 10-12-96 PLOT DATE = 4/8/2009 DATE REVISED -T. RAMMACHER 01-06-0

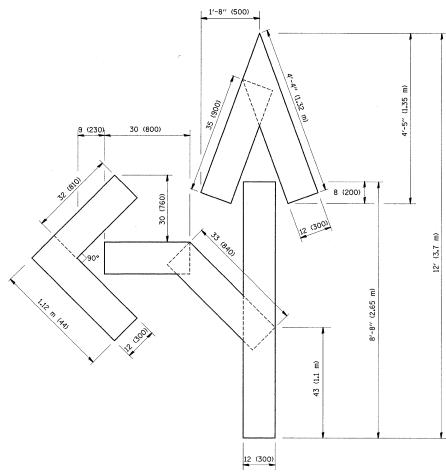
SHEET NO. 1 OF 1 SHEETS STA.

COOK 17 14 CONTRACT NO. 60H16 FED. ROAD DIST. NO. 1 | ILLINOIS FED. AID PROJECT





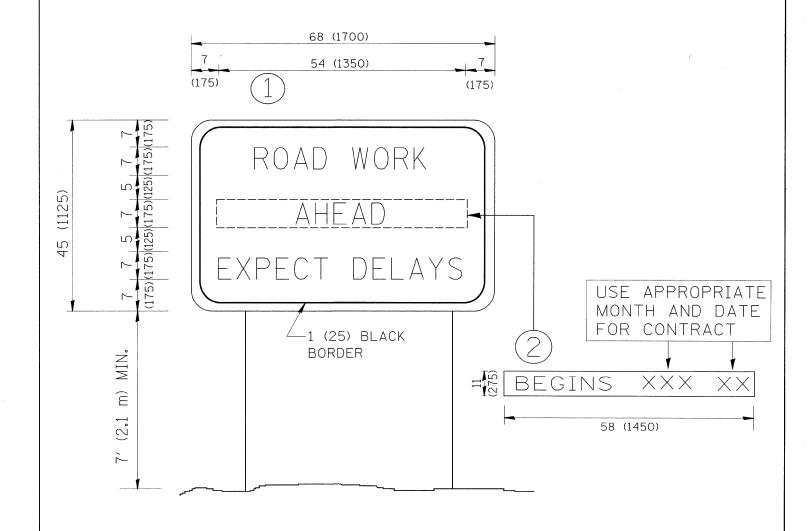
QUANTITY 4 (100) LINE = 45.5 ft. (13.9 m) 15.2 sq. ft. (1.39 sq. m)



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

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

FILE NAME =	USER NAME = shiranisb	DESIGNED -	REVISED -T. RAMMACHER 06-05-96	ATATE OF 11111010	PAVEMENT MARKING LETTERS AND SYMBOLS	F.A.U. RTE.	SECTION	COUNTY	TOTAL	SHEE NO.
P:\5th Ave\tc16.dgn	PLOT SCALE - 49 9999 ' / IN	DRAWN CHECKED	REVISED -T. RAMMACHER 11-04-97 REVISED -T. RAMMACHER 03-02-98	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	FOR TRAFFIC STAGING	2742	3222 A-RS-1	COOK	17	15
	PLOT DATE = 4/8/2009	DATE - 09-18-94	REVISED - E. GOMEZ 08-28-00	DEPARTMENT OF TRANSPORTATION	SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.	FED. ROAD	TC-16 DIST. NO. 1 ILLINOIS FED. 7	CONTRACT AID PROJECT	1 NO. 6	OH16



NOTES:

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

FILE NA	AME =	USER NAME = shiranisb	DESIGNED -	REVISED - R. MIRS 09-15-97			ARTERIAL ROAD	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHE SHEETS NO	ET O.
P:\5th	Ave\tc22.dgn		DRAWN	REVISED - R. MIRS 12-11-97	STATE OF ILLINOIS	INFORMATION SIGN		2742	3222 A-RS-1	соок	17 1	.6
l		PLOT SCALE = 50.000 '/ IN.	CHECKED -	REVISED -T. RAMMACHER 02-02-99	DEPARTMENT OF TRANSPORTATION				TC-22	CONTRAC	CT NO. 60H	16
i		PLOT DATE = 4/8/2009	DATE ~	REVISED - C. JUCIUS 01-31-07		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS STA. TO STA.	FED. RO	OAD DIST. NO. 1 ILLINOIS FE	D. AID PROJECT		

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.

LOT SCALE = 49.9999 '/ IN

LOT DATE = 4/8/2009

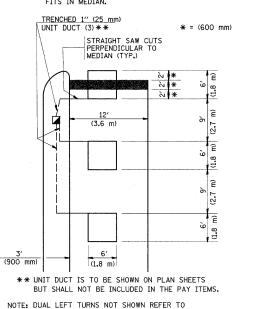
ILE NAME

:\5th Ave\ts07.dar

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.



PLAN SHEET FOR DETECTOR LOOP REPLACEMENT

REVISED

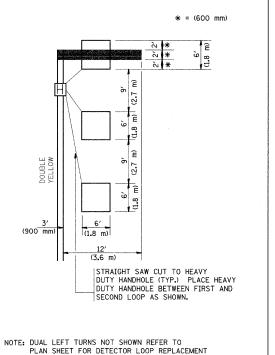
REVISED

REVISED

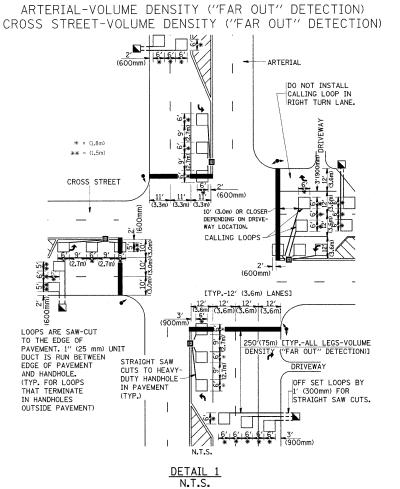
REVISED

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

(PROTECTED / PERMITTED LEFT TURN PHASING)



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



DESIGNED

DRAWN

DATE

CHECKED

R.K.F.

OFFSET LOOPS BY STRAIGHT SAW CUTS ARTERIAL THIS DIMENSION MAY BE ADJUSTED FOR DRIVEWAY OR OTHER OBSTRUCTIONS. WHEN ADJUSTMENT IS REQUIRED, DETECTORS WILL NORMALLY BE MOVED CLOSEF TO THE INTERSECTION. 3'(900mm) /-1" (25 mm) UNIT DUCT CROSS STREET _____3′(900mm (3.3m) 3.6 \(\begin{array}{c} 64 9 \\ 64 \\ 2.10 \end{array} -10'(3-0m) PREFERRED-11' (3.3m) ★6' △ 6: 9' 6: 6, 3, 6, 3, 6, 15'(4.5m) MAXIMUM + - THESE DIMENSIONS DRIVEWAY WILL BE VARIABLE F6' (1.8m) MINIMUM 25' (7.6 m) MAXIMUM] A - THESE DIMENSIONS SHALL BE 5' (1.5m) FOR - IF "FAR OUT" LOOPS 10' (3.0m) LANE WIDTHS ARE LOCATED IN TAPER OF A RIGHT TURN LANE, DIMENSION THIS LOOP TO COVER TAPER AREA. DO NOT COVER THE LEFT TURN DETAIL 2 LANE OR LEFT TURN LANE TAPER.

SCALE: NONE

SHEET

NOTES:

VEHICLES LOOP DETECTORS

- * ALL LEAD IN CABLE SHALL BE TWO CONDUCTOR NO. 14 TWISTED, SHIFLDED.
- * 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, <u>MORE</u>
 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 $\underline{\text{ALL}}$ 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.

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

DISTRICT 1 DETECTOR LOOP INSTALLATION		F.A.U. RTE.	SECTION	COUNTY	TOTAL	SHEE NO.			
DETAILS FOR ROADWAY RESURFACING			2742	3222 A-RS-1	соок	17	17		
				TS-07	CONTRAC	T NO.	60H16		
HEET	NO. 1 OF 1	SHEETS	STA.	TO STA.	FFD. ROAD	DIST. NO. 1 TH INOIS FED.	ATD PROJECT		