STATE OF ILLINOIS

DEPARTMENT OF TRANSPORTATION **DIVISION OF HIGHWAYS**

PROPOSED HIGHWAY PLANS

F.A.U. ROUTE 2714: KEMMAN AVE. **SECTION: 0404 RS-10** 31ST STREET TO SHAWMUT AVE.

> **RESURFACING (3P) COOK COUNTY** C-91-077-09

R 12 E **PROJECT ENDS:** STA. 65 + 98 NGE LAGRA 171 TRAFFIC DATA CITY **PROJECT BEGINS:** LIMITS 2006 ADT = 4,700 STA. 10 + 18 POSTED SPEED LIMIT = 25 MPH ENGINEERING SCALES, REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

PROVISO TOWNSHIPS

PROJECT ENGINEER: Dan Wilgreen (847) 705-4240 PROJECT MANAGER: Ken Eng (847) 705-4247

JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION

FOR INDEX OF SHEETS, SEE SHEET NO. 2

THE PROJECT IS LOCATED IN THE **VILLAGES OF LAGRANGE PARK AND**

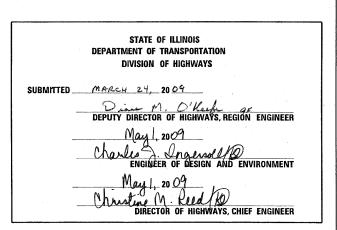
BROOKFIELD

GROSS & NET LENGTH OF PROJECT = 5.580 LINEAL FEET = 1.06 MILES

0404 RS-10 СООК ILLINOIS CONTRACT NO. 60F46







PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

CONTRACT NO. 60F46

1-800-892-0123 OR 811

INDEX OF SHEETS

DISTRICT ONE DETECTOR LOOP INSTALLATION DETAILS FOR

ROADWAY RESURFACING

STATE STANDARDS

SHEET	NO.	DESCRIPTION		STANDARD NO.	DESCRIPTION
1		TITLE SHEET		000001-05	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
2		INDEX OF SHEETS, STATE STANDARDS, GENERAL NOTES AND MIX SHEDULE		442201-03	CLASS C AND D PATCHES
3		SUMMARY OF QUANTITIES		701301- <i>03</i>	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
4		EXISTING AND PROPOSED TYPICAL CROSS SECTIONS		701311- <i>03</i>	LANE CLOSURE, 2L, 2W, MOVING DAY ONLY OPERATIONS
5	- 6	ROADWAY AND PAVEMENT MARKING PLANS		701501 <i>-05</i>	URBAN LANE CLOSURE, 2L, 2W, UNDIVIDED
7		DETECTOR LOOP PLANS		701701-06	URBAN LANE CLOSURE, MULTILANE INTERSECTION
. 8.		DETAILS FOR FRAMES AND LIDS ADJUSTMENT WITH MILLING		701901- <i>01</i>	TRAFFIC CONTROL DEVICES
9		PAVEMENT PATCHING FOR HMA SURFACED PAVEMENT		886001- <i>01</i>	DETECTOR LOOP INSTALLATIONS
10)	CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT		886006-01	TYPICAL LAYOUT FOR DETECTION LOOPS
11		BUTT JOINT AND HMA TAPER DETAILS		000000 0.	Thirties Entropy for Service 150.
12	<u>.</u>	TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS			
13	3	TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARK (SNOW-PLOW RESISTANT)	ERS		
. 14	1	DISTRICT ONE TYPICAL PAVEMENT MARKINGS			
15	5	TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TO REM. OPEN TO TRAFFIC)	AIN		
16	6	PAVEMENT MARKING LETTERS AND SYMBOLS FOR TRAFFIC ST	AGING		
17	7 .	ARTERIAL ROAD INFORMATION SIGN			

PLAN 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 IS REQUIRED)

THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES WITHIN THE VILLAGES OF LAGRANGE PARK AND BROOKFIELD.

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

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

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

THE RESIDENT ENGINEER SHALL CONTACT THE DISTRICT ONE ARTERIAL TRAFFIC CONTROL SUPERVISOR AT (847) 705-4470 A MINIMUM OF 72 HOURS PRIOR TO START OF WORK.

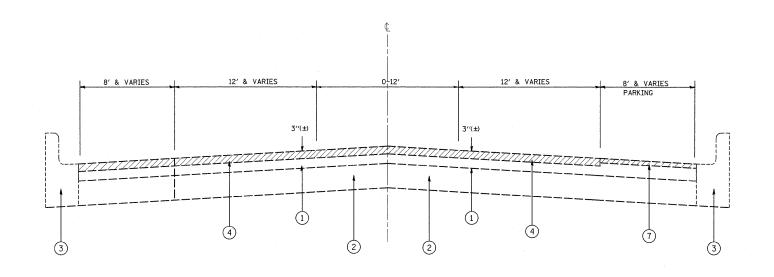
10 FEET (3 METERS) TRANSITION SHALL BE USED TO MATCH PROPOSED CURB AND GUTTER TO EXISTING CURB AND GUTTERS IN THE FIELD, UNLESS OTHERWISE SHOWN. THE TRANSITION SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE FOR THE PROPOSED ITEMS OR WORK SPECIFIED.

WHEN MILLED PAVEMENT IS OPEN TO TRAFFIC THE MAXIMUM GRADE DIFFERENTIAL BETWEEN PASSES OF THE MILLING MACHINE SHALL NOT EXCEED 1/2 INCHES (40MM) 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 OFTHE MILLING IS SLOPED A MINIMUM 1:3 (V:H).

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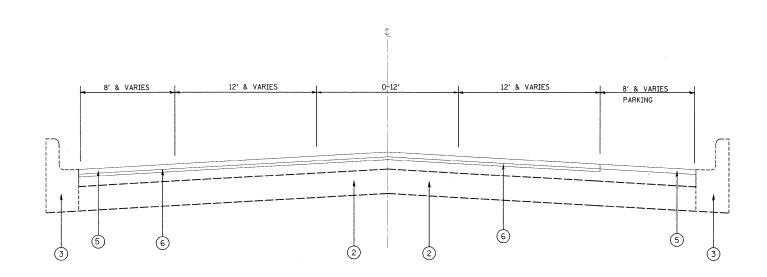
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CODE NO	SUMMARY OF QUANTITIES							CODE	·	↓	SHMMAR	Y OF QUANTITIES		URBAN 1001.STATE		CO				
CODE NO			TOTAL	1000		:					SDIMINIAN	TOT GUANTITIES		TOTAL	1000					
	ITEM	UNIT	QUANTITIES							CODE NO	:	ITEM	UNIT	QUANTITIES						
40600200	BITUMINOUS MATERIALS (PRIME COAT)	TON	11	11		-				X 78000100		C PAVEMENT MARKING	SQ FT	36	36					
40600300	AGGREGATE (PRIME COAT)	TON	53	53						7000000	- LETTERS AND		FOOT	0000	0000					
40600400	MIXTURE FOR CRACKS, JOINTS, and Flangeways	TON	13	13						X 78000200	- LINE 4"	C PAVEMENT MARKING	FOOT	9822	9822					
40600895	CONSTRUCTING TEST STRIP	EACH	i 1	1						X 78000400	- LINE 6"	C PAVEMENT MARKING	FOOT	1826	1826					
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	394	394						X 78000600	THERMOPLASTIC - LINE 12"	PAVEMENT MARKING	FOOT	40	40					
40601005	HOT-MIX ASPHALT REPLACEMENT OVER PATCHES	TON	490	490						× 78000650	THERMOPLASTIC	PAVEMENT MARKING	FOOT	357	357					
40603335	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50	TON	2228	2228				- 1		X 78100100	RAISED REFLEC	CTIVE PAVEMENT MARKER	EACH	281	281					
42001300		SQ YD	44	44					1 .	★ 88600600	DETECTOR LOOP	REPLACEMENT	FOOT	66	66					
		SQ YD	4128	4128			,			X0322256	TEMPORARY INF	FORMATION SIGNING	SQ FT	51.4	51.4					
44000155 44000158	1/2"	SQ YD	22397	22397				•		X4067107	POLYMERIZED L METHOD), IL-	EVELING BINDER (MACHINE 4.75, N50	TON	881	881					
	1/4"									Z0018500	DRAINAGE STRU	JCTURES TO BE CLEANED	EACH	20	20					
44001700	COMBINATION CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT	FOOT	200	200													* * * * * * * * * * * * * * * * * * *			
44002212	HOT-MIX ASPHALT REMOVAL OVER PATCHES, 3"	SQ YD	2915	2915				The same		3				e de la companya de l	J. Santa Carlo		**************************************	and the second s		
44201765	CLASS D PATCHES, TYPE II, 10 INCH	SQ YD	109	109						100										
44201769	CLASS D PATCHES, TYPE III, 10 INCH	SQ YD	63	63	٠.				_					*						
44201771	CLASS D PATCHES, TYPE IV, 10 INCH	SQ YD	2478	2478	٠				,								·			
55039700	STORM SEWERS TO BE CLEANED	FOOT	837	837																
60300310	FRAMES AND LIDS TO BE ADJUSTED (SPECIAL)	EACH	80	80											-					
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	6	6			4				9									1 1
67100100	MOBILIZATION	L SUM	1	1															*	
70102620	STANDARD 701501	L SUM	1	1											,		·			
70102635	STANDARD 701701	L SUM	1	1																
70300100		FOOT	1521	1521									٠.							
70300210	- LETTERS AND SYMBOLS	SQ FT	36	36			1													
70300220	- LINE 4"	FOOT	9822	9822																
70300240	- LINE 6"	FOOT	1826	1826							* 50	ecially Hems								
70300260	- LINE 12"	FOOT	357	40				\$												
70300280	- LINE 24"	FOOT SO FT	357 169	357	1.		:													
70301000			103	169																
ILE NAME =	· · · · · · · · · · · · · · · · · · ·	DESIGNED - DRAWN -		REVISED REVISED					STATE OF	ILLINOIS			IMARY OF QUA	AUTIFO	-	F.A.U. RTE. 2714	SECT 0404		COUNTY	TOTAL SHE SHEETS NO 18



KEMMAN

EXISTING TYPICAL SECTION STA. 10+18 TO STA. 65+98



KEMMAN

PROPOSED TYPICAL SECTION
STA. 10+18 TO STA. 65+98

LEGEND

- (1) EXISTING HOT-MIX ASPHALT SURFACE, 3" (+/-)
- (2) EXISTING P.C.C. BASE COURSE, 10" (+/-)
- (3) EXISTING COMBINATION CONCRETE CURB & GUTTER, TYPE B-6.12
- (4) PROPOSED HOT-MIX ASPHALT SURFACE REMOVAL, 21/4"
- PROPOSED HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50, 1 1/2 "
- 7 PROPOSED HOT-MIX ASPHALT SURFACE REMOVAL, 1 1/2 "
 (PARKING LANES)

NOTE:

PATCHING TO BE DONE PRIOR MILLING.

HOT-MIX ASPHALT MIXTURE	REQUIREMENTS			
MIXTURE TYPE	AC TYPE	AIR VOIDS(%)		
PAVEMENT RESURFACING				
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50 (IL-9.5MM)	PG 64-22	4% @ 50 GYR.		
POLYMERIZED LEVELING BINDER (MM), IL-4.75, N50	SBS/SBR PG 76-28/-22	4% @ 50 GYR.		
PATCHING				
CLASS D PATCHES TYPE II, III & IV, 10", (HMA BINDER IL-19 MM)	PG 64-22*	4% @ 70 GYR.		
HMA REPLACEMENT OVER PATCHES (HMA BINDER IL-19 mm)	PG 64-22*	4% @ 70 GYR.		

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

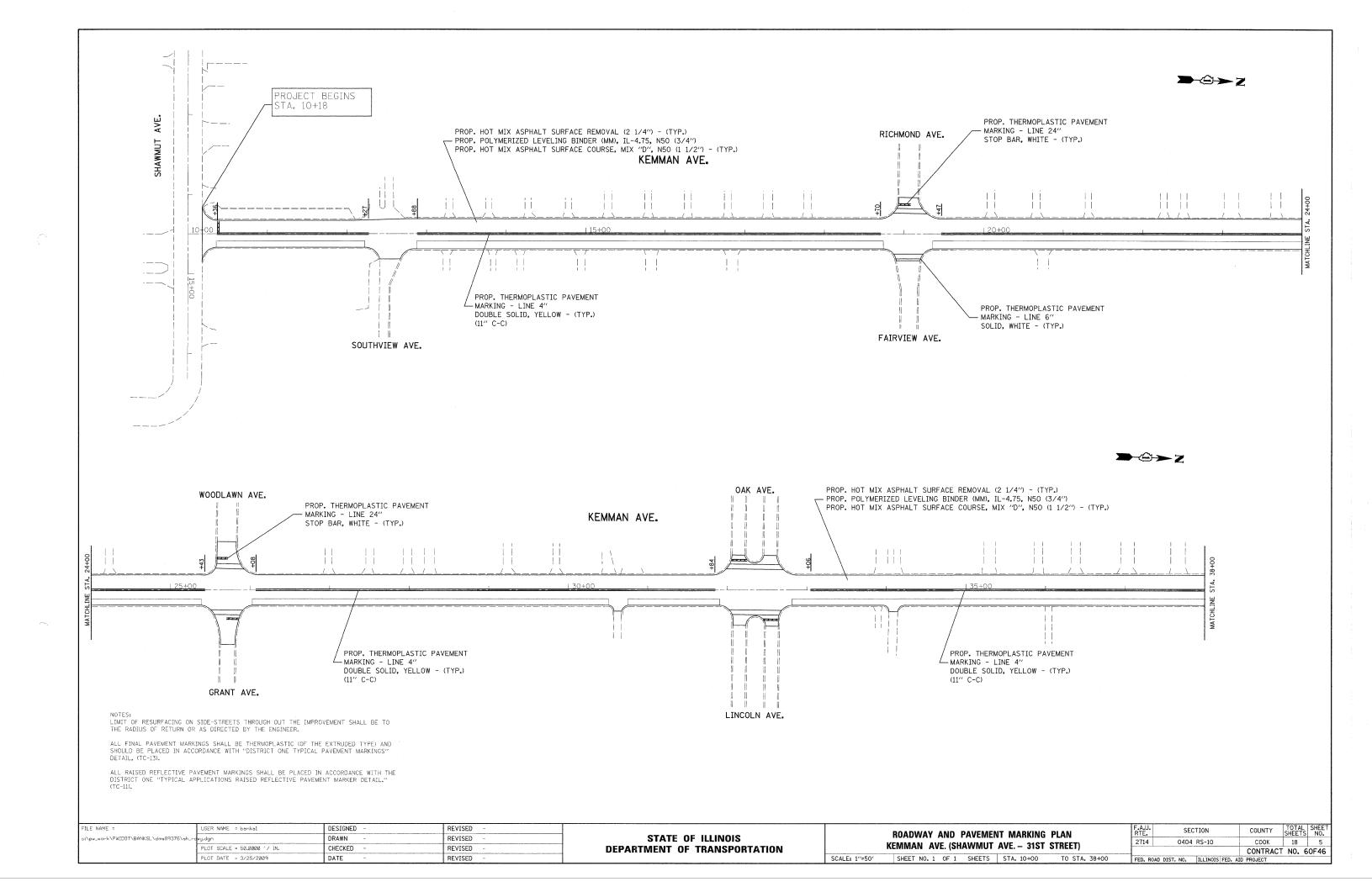
NOTE: THE UNIT WEIGHT USED TO CALCULATE ALL HOT-MIX ASPHALT SURFACE MIXTURE QUANTATIES IS 112 LBSSQ YD/IN.

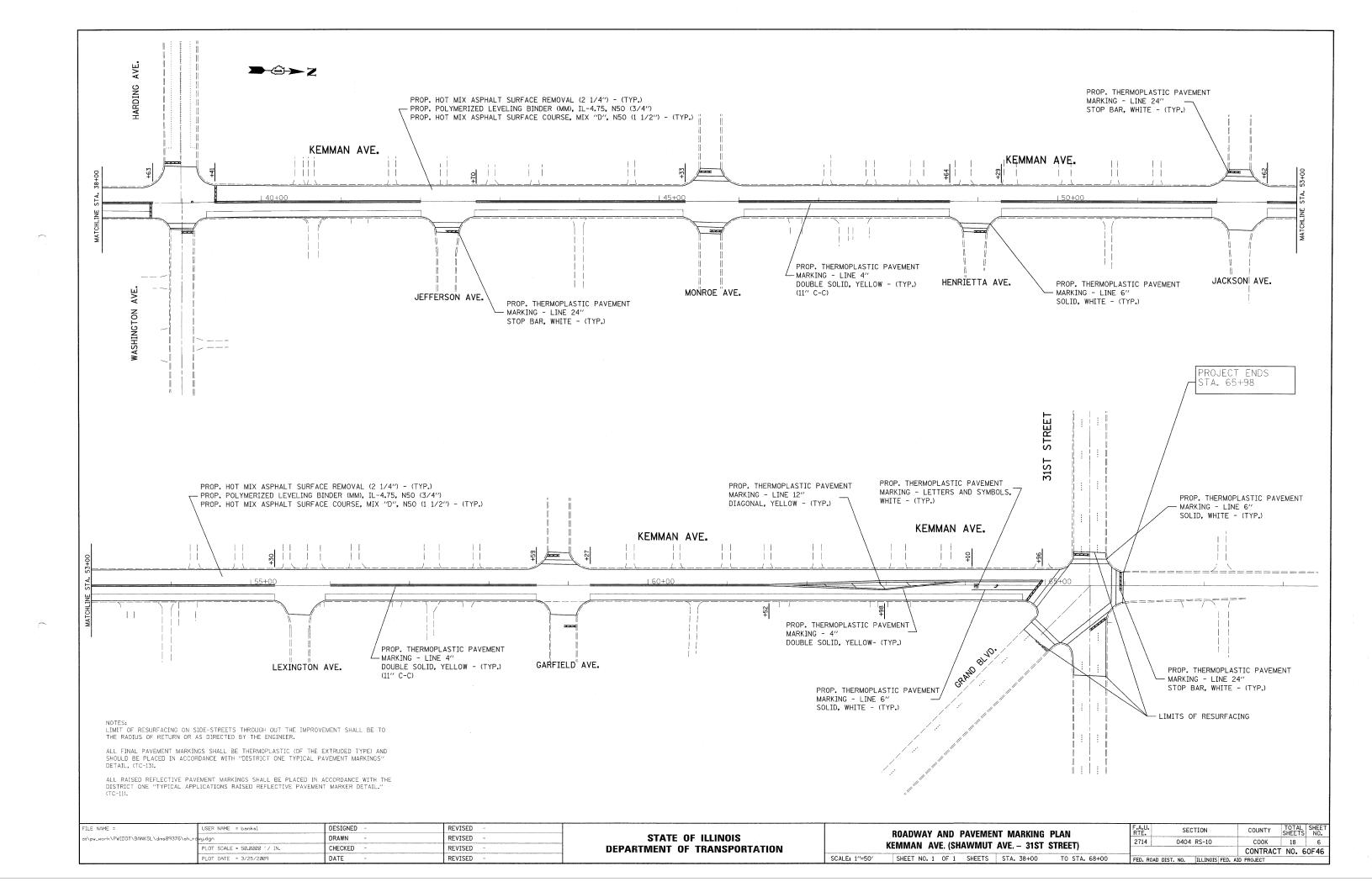
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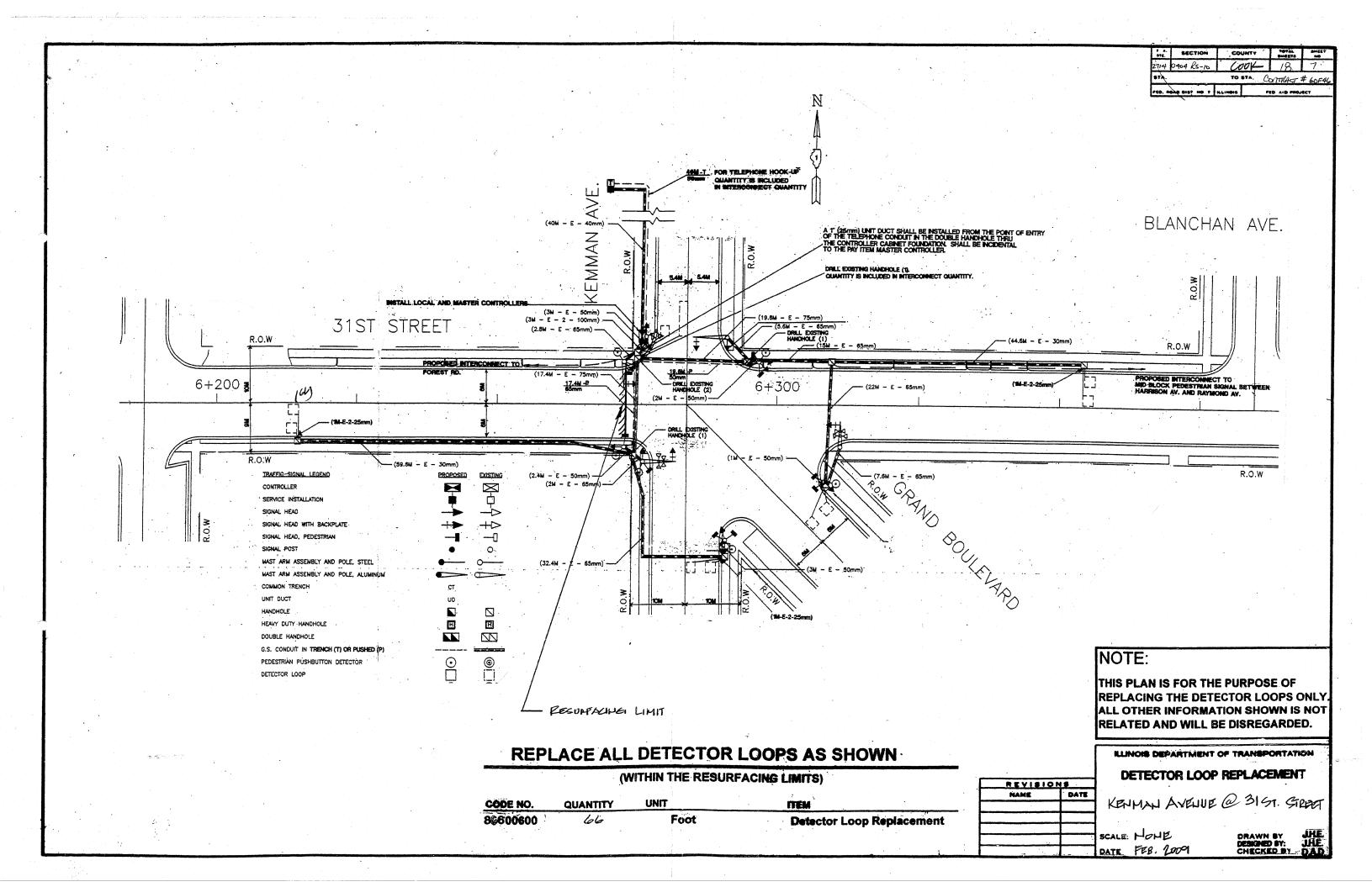
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

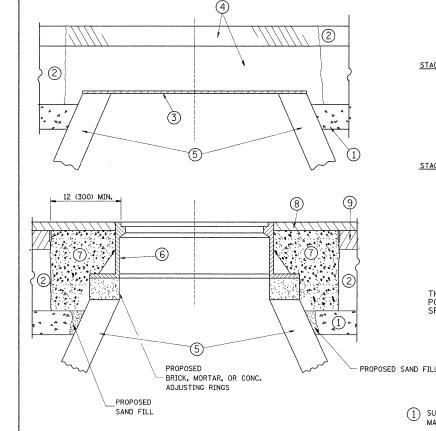
KEMMAN AVE EXISTING AND									
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CONTRACT NO.	60F46
2714 0404 RS-10 COOK 18	4
F.A.U SECTION COUNTY TOTAL SHEETS	SHEET NO.









LEGEND

CONSTRUCTION PROCEDURES

A) REMOVE A MINIMUM OF 12 (300) OF THE PAVEMENT FROM AROUND THE STRUCTURE.

B) REMOVE THE EXISTING FRAME AND LID FROM THE STRUCTURE.

C) COVER THE STRUCTURE OPENING WITH A 36 (900) DIAMETER METAL PLATE.

D) BACKFILL WITH CRUSHED STONE AND A MINIMUM $1\frac{1}{2}$ (40) THICK HMA SURFACE MIX APPROVED BY THE ENGINEER.

A) REMOVE THE HMA SURFACE MIX AND CRUSHED STONE.

B) INSTALL THE FRAME AND LID; ADJUST THE FRAME TO ITS FINAL SURFACE ELEVATION.

C) THE SURROUNDING SPACE SHALL BE FILLED WITH CLASS SI CONCRETE, OR HMA SURFACE COURSE OR HMA BINDER COURSE TO THE ELEVATION OF THE SURFACE OF THE EXISTING BASE COURSE OR THE BINDER COURSE.

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

STAGE 1 (BEFORE PAVEMENT MILLING)

STAGE 2 (AFTER PAVEMENT MILLING)

- 1 SUB-BASE GRANULAR MATERIAL
 - 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
- 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 PAYEMENT. UPON COMPLETION OF THE WORK, THE CONTRACTOR WILL DELIVER THE RECORD TO THE ENGINEER.

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

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

DETAILS FOR FRAMES AND LIDS ADJUSTMENT WITH MILLING

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN

FILE NAME : DESIGNED R. SHAH REVISED - R. SHAH 03-10-95 SHEETS NO. SECTION COUNTY **DETAILS FOR** REVISED - A. ABBAS 03-21-97 STATE OF ILLINOIS COOK FRAMES AND LIDS ADJUSTMENT WITH MILLING REVISED - R. WIEDEMAN 05-14-04 CHECKED **DEPARTMENT OF TRANSPORTATION** PLOT SCALE = 50.0000 '/ IN. CONTRACT NO. 60F46 BD600-03 (BD-8) DATE REVISED - R. BORO 01-01-07 SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT

NOTES:

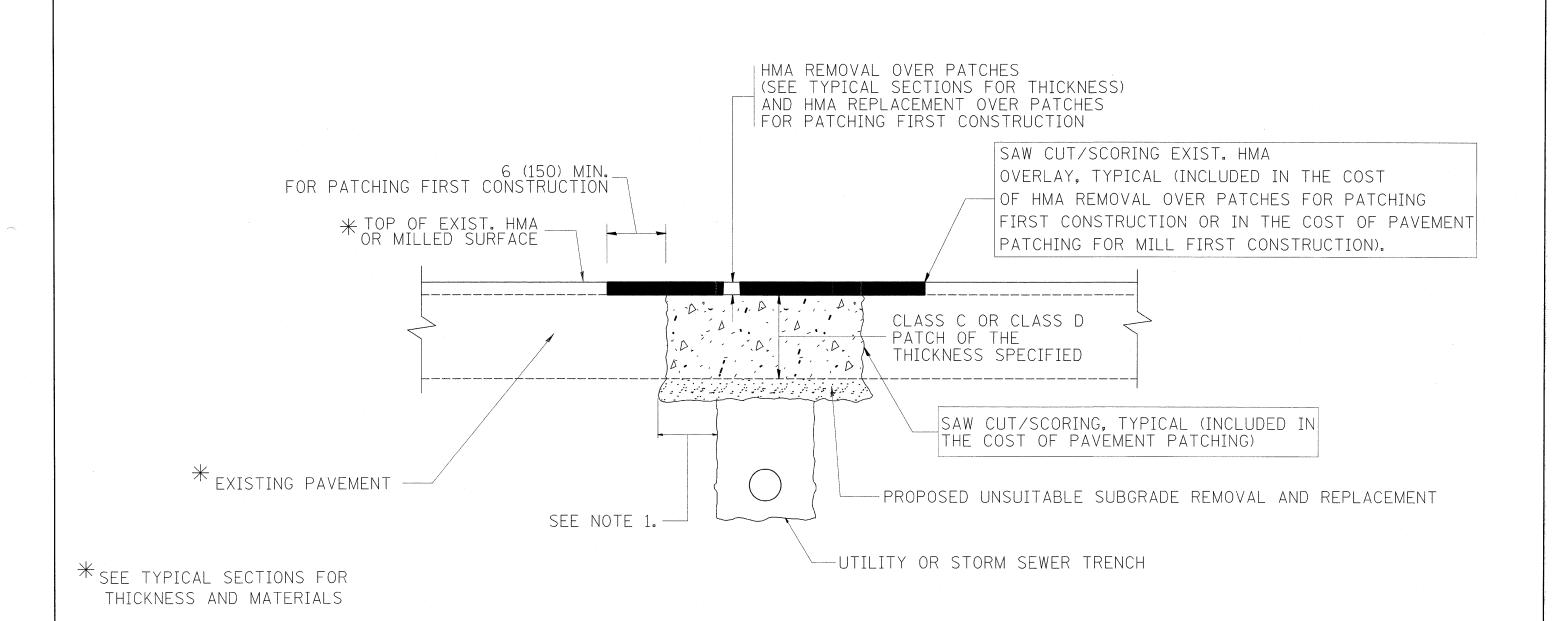
EXISTING BROKEN FRAMES AND LIDS SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR AND SHALL BE REPLACED AS DIRECTED BY THE ENGINEER. REPLACEMENT FRAMES AND LIDS WILL BE PAID FOR IN ACCORDANCE WITH ARTICLE 109.04 OF THE STANDARD SPECIFICATIONS UNLESS A SEPARATE PAY ITEM HAS BEEN PROVIDED.

IF THE EXISTING LIDS ARE OPEN, THE FRAME WILL BE ADJUSTED TO THE ELEVATION OF THE MILLED 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.



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)

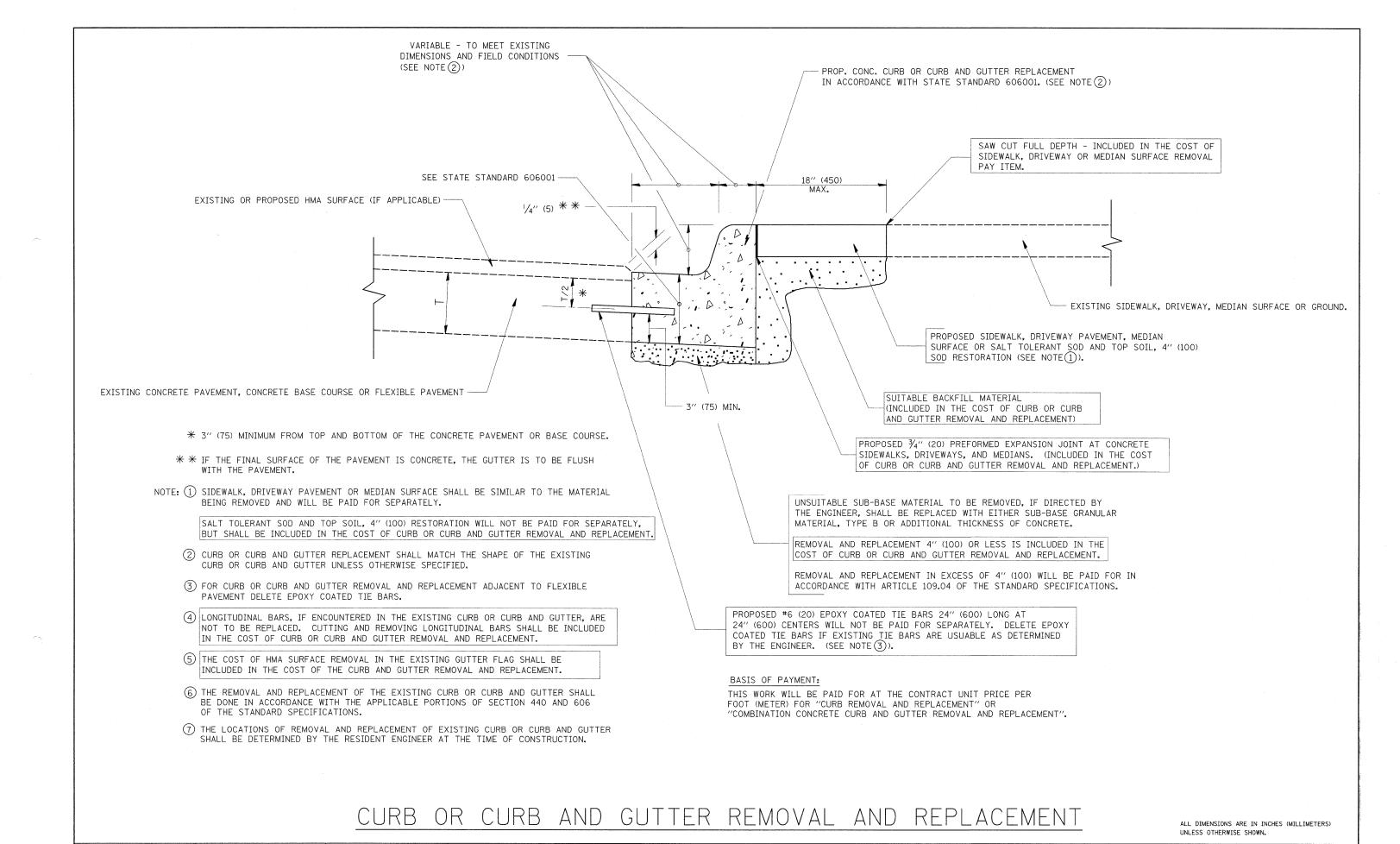
- 1. REMOVE THE EXISTING HMA MATERIAL OVER THE AREA TO BE PATCHED.
- 2. REMOVE AND REPLACE WITH CLASS C OR D PATCH.
- 3. REPLACE HMA MATERIAL OVER THE AREA TO BE PATCHED.

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.

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

FILE NAME =	USER NAME = bankal	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 = 50.0000 '/ IN.	CHECKED -	REVISED - R. BORO 09-04-07	DEPARTMENT OF TRANSPORTATION	HMA SURFACED PAVEMENT		BD400-04 (BD-22)	CONTRACT NO. 60F46
	PLOT DATE = 3/14/2009	DATE - 10-25-94	REVISED - K. ENG 10-27-08	·	SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.	FED. RO	OAD DIST. NO. 1 ILLINOIS FED. A	



STATE OF ILLINOIS

DEPARTMENT OF TRANSPORTATION

COUNTY TOTAL SHEE NO.

CONTRACT NO. 60F46

SECTION

BD600-06 (BD-24) CONTR FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT

CURB OR CURB AND GUTTER

REMOVAL AND REPLACEMENT

TO STA.

SHEET NO. 1 OF 1 SHEETS STA.

SCALE: NONE

ILE NAME :

DESIGNED

CHECKED

DRAWN

DATE

LOT SCALE = 50.0000 '/ IN.

PLOT DATE = 3/14/2009

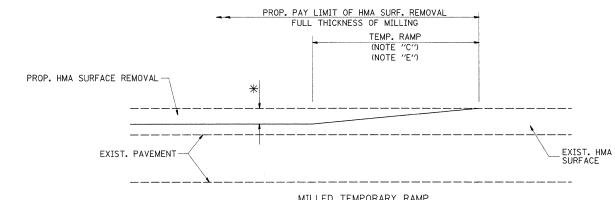
A. HOUSEH

03-11-94

REVISED - A. ABBAS 03-21-97

REVISED - M. GOMEZ 01-22-01

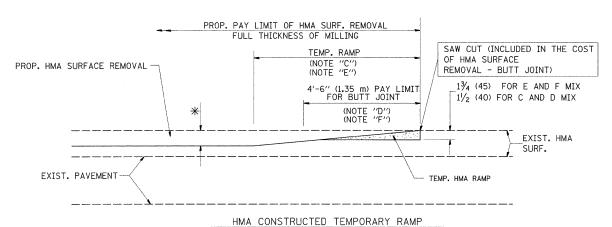
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MILLED TEMPORARY RAMP

(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

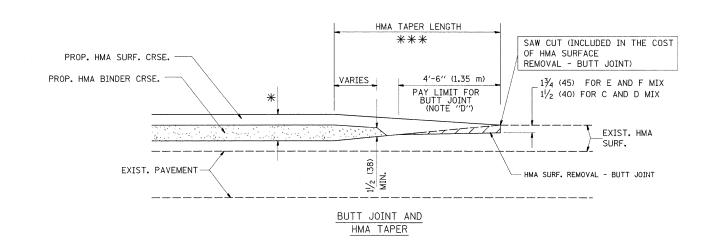
OPTION 1



(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

OPTION 2

TYPICAL TEMPORARY RAMP



TYPICAL BUTT JOINT AND HMA TAPER FOR MILLING AND RESURFACING

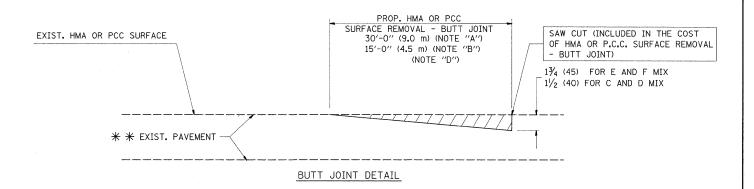
REVISED - R. SHAH 10-25-94 DRAWN REVISED A. ABBAS 03-21-97 PLOT SCALE = 50.0000 '/ IN. CHECKED REVISED - M. GOMEZ 04-06-01 DATE 06-13-90 REVISED -R. BORO 01-01-07

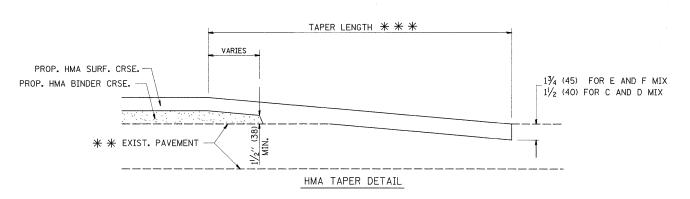
STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

COUNTY TOTAL SHEET NO. SECTION **BUTT JOINT AND** COOK 18 11 0404 RS-10 HMA TAPER DETAILS CONTRACT NO. 60F46 BD400-05 BD32 SHEET NO. 1 OF 1 SHEETS STA. FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS

OTHERWISE SHOWN.





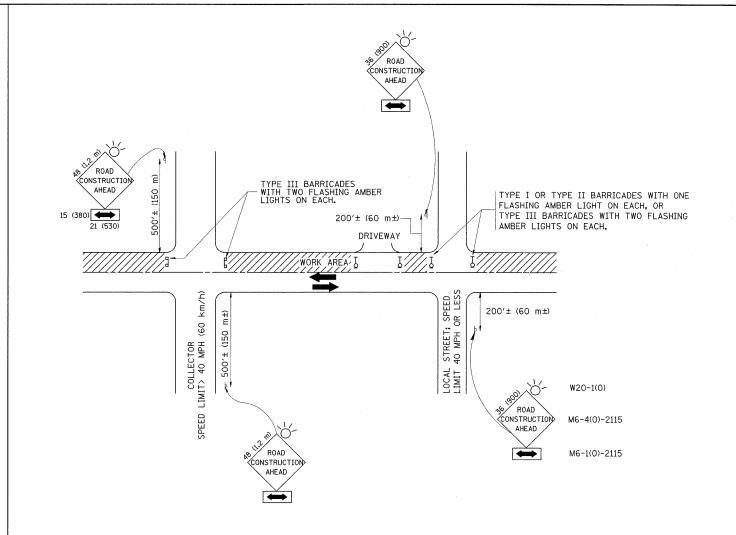
TYPICAL BUTT JOINT AND HMA TAPER FOR RESURFACING ONLY

* * PC CONCRETE, HMA OR HMA RESURFACED PAVEMENT.

- 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".
- \divideontimes 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".



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:
- Q) ONE ROAD CONSTRUCTION AHEAD SIGN 36 x 36 (900x900) WITH A FLASHER AND FLAG MOUNTED ON IT APPROXIMATELY 200' (60 m) IN ADVANCE OF THE MAIN ROUTE.
- b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE I, TYPE II OR TYPE III BARRICADES, 1/3 OF THE CROSS SECTION OF THE CLOSED PORTION.
- 2. SIDE ROAD WITH A SPEED LIMIT GREATER THAN 40 MPH (60 km/h) AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
- a) ONE ROAD CONSTRUCTION AHEAD SIGN 48 \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.

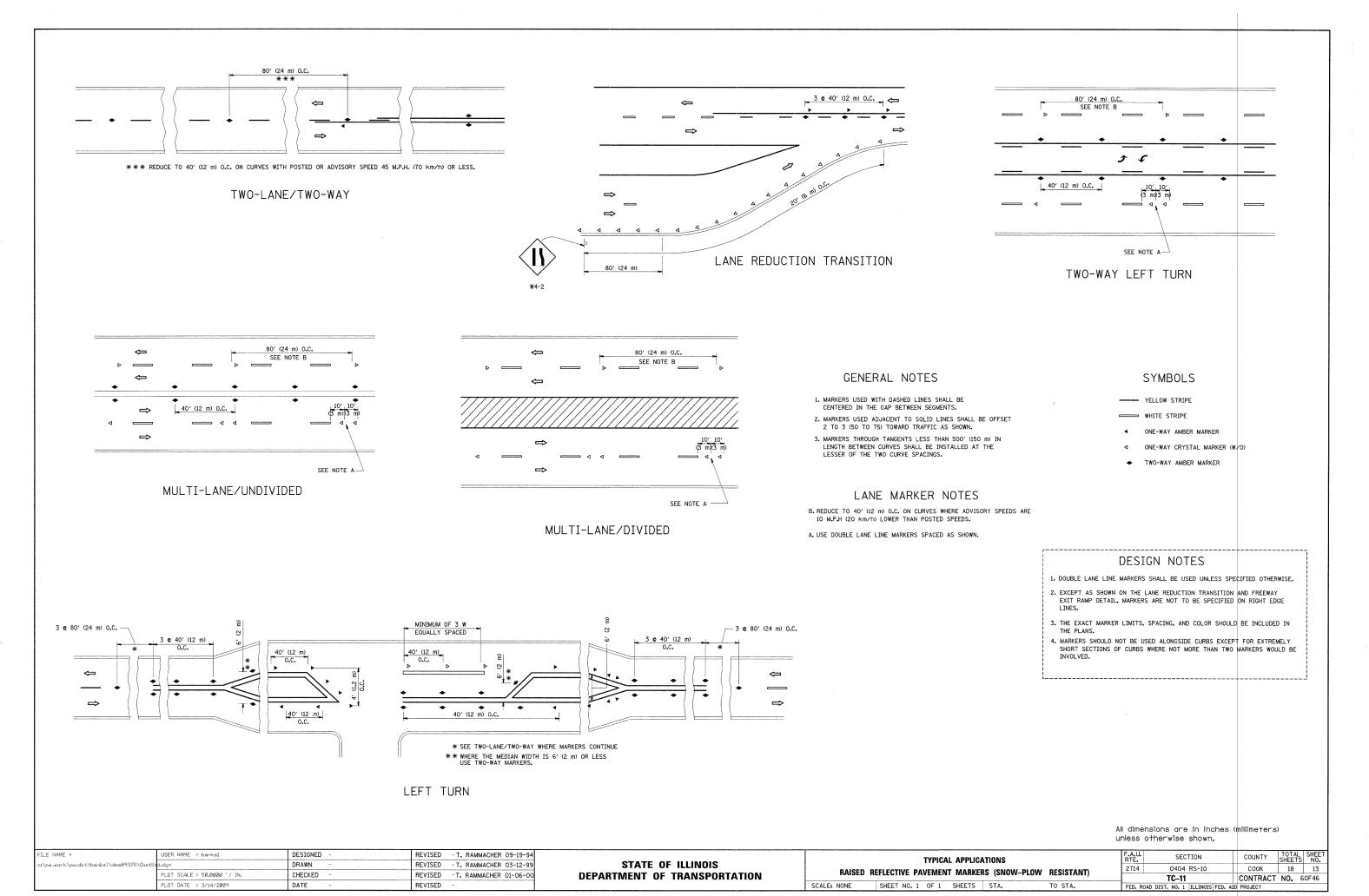
- C. ADVANCE WARNING SIGNS ARE TO BE OMITTED ON DRIVEWAY UNLESS OTHERWISE NOTED.
- D. THE TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS SHALL BE INCIDENTAL TO THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

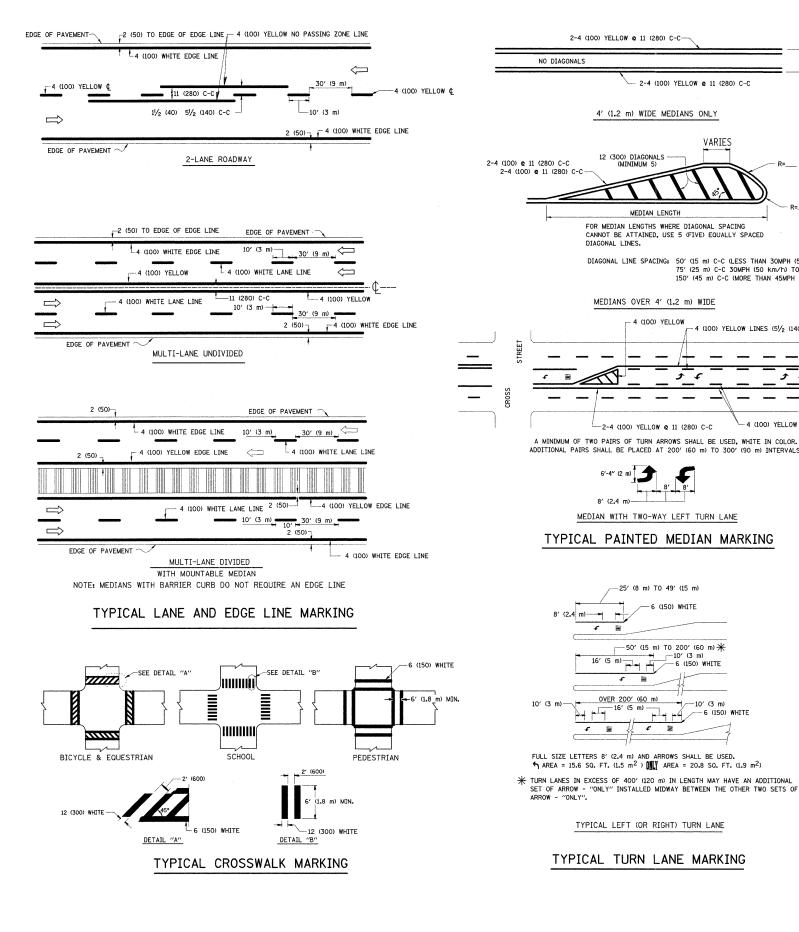
All dimensions are in millimeters (inches) unless otherwise shown.

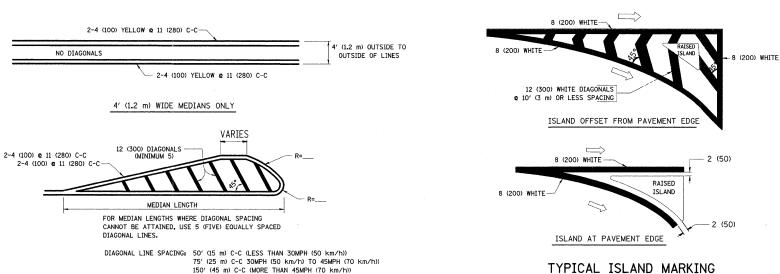
FILE NAME =	USER NAME = bankal	DESIGNED - LHA	REVISED - J. OBERLE 10-18-95
c:\pw_work\pwidot\banksl\dms89376\DistSt	didgn	DRAWN -	REVISED - A. HOUSEH 03-06-96
	PLOT SCALE = 50.0000 '/ IN.	CHECKED -	REVISED - A. HOUSEH 10-15-96
	PLOT DATE = 3/14/2009	DATE - 06-89	REVISED -T. RAMMACHER 01-06-00

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

TR	AFFIC	CONTR	OL AND	PROTEC	TION	FOR	
SIDE	ROAD	S, INTE	RSECTION	IS, AND	DRIVE	WAYS	
SHEET	NO 1	OF 1	SHEETS	STA		TO	ST







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 @ 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; 51/2 (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' (500) APART SEE TYPICAL CROSSWALK MARKING DETAILS.
STOP LINES	24 (600)	SOLID	WHITE	PLACE 4' (1.2 m) IN ADVANCE OF AND PARALLEL TO CROSSWALK, IF PRESENT. OTHERWISE, PLACE AT DESIRED STOPPING POINT. PARALLEL TO CROSSROAD CENTERLINE, WHERE POSSIBLE
PAINTED MEDIANS	2 @ 4 (100) WITH 12 (300) DIAGONALS @ 45° NO DIAGONALS USED FOR 4' (1,2 m) WIDE MEDIANS	SOLID	YELLOW: TWO WAY TRAFFIC WHITE: ONE WAY TRAFFIC	11 (280) C-C FOR THE DOUBLE LINE SEE TYPICAL PAINTED MEDIAN MARKING.
CORE MARKING AND CHANNELIZING LINES	8 (200) WITH 12 (300) DIAGONALS @ 45°	SOLID	WHITE	DIACONALS: 15' (4.5 m) C-C (LESS THAN 30MPH (50 km/h)) 20' (6 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h)) 30' (9 m) C-C (OVER 45MPH (70 km/h))
RAILROAD CROSSING	24 (600) TRANSVERSE LINES; "RR" IS 6' (1.8 m) LETTERS; 16 (400) LINE FOR "X"	SOLID	WHITE	SEE STATE STANDARD 780001 AREA OF: "R"=3.6 SQ. FT. (0.33 m ²) EACH "X"=54.0 SQ. FT. (5.0 m ²)
SHOULDER DIAGONALS	12 (300) @ 45°	SOLID	WHITE - RIGHT YELLOW - LEFT	50' (15 m) C-C (LESS THAN 30MPH (50 km/h)) 75' (25 m) C-C (30 MPH (50 km/h) TO 45MPH (70 km/h)) 150' (45 m) C-C (0VER 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.

TYPICAL TURN LANE MARKING

TYPICAL LEFT (OR RIGHT) TURN LANE

OVER 200' (60 m)

F & }

MEDIANS OVER 4' (1.2 m) WIDE

-2-4 (100) YELLOW @ 11 (280) C-C

MEDIAN WITH TWO-WAY LEFT TURN LANE

TYPICAL PAINTED MEDIAN MARKING

-25' (8 m) TO 49' (15 m)

−50′ (15 m) TO 200′ (60 m) * -10' (3 m)

16' (5 m) 10' (3 m) 6 (150) WHITE

€ }

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

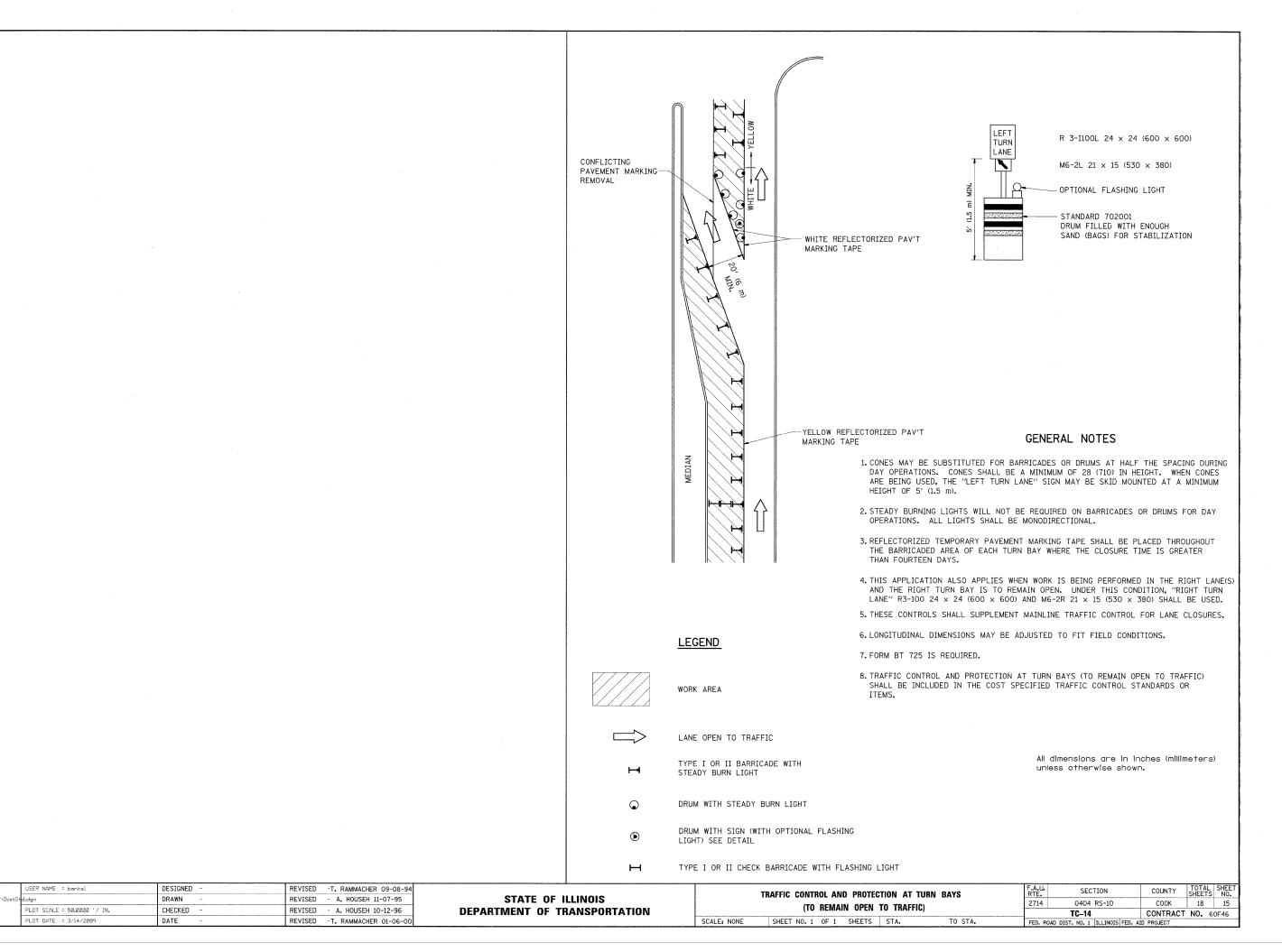
8' (2.4 m)—

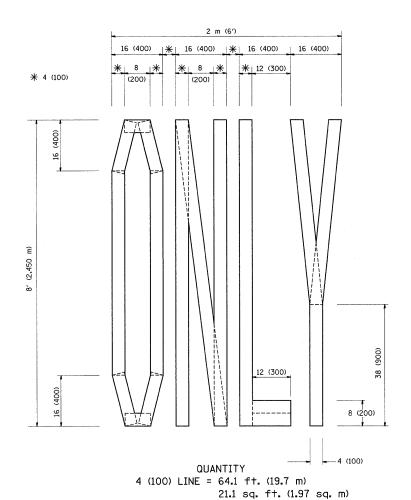
A MINIMUM OF TWO PAIRS OF TURN ARROWS SHALL BE USED, WHITE IN COLOR. ADDITIONAL PAIRS SHALL BE PLACED AT 200' (60 m) TO 300' (90 m) INTERVALS.

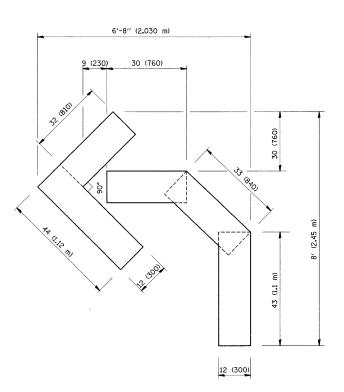
-4 (100) YELLOW LINES (51/2 (140) C-C)

4 (100) YELLOW LINES (51/2 (140) C-C)

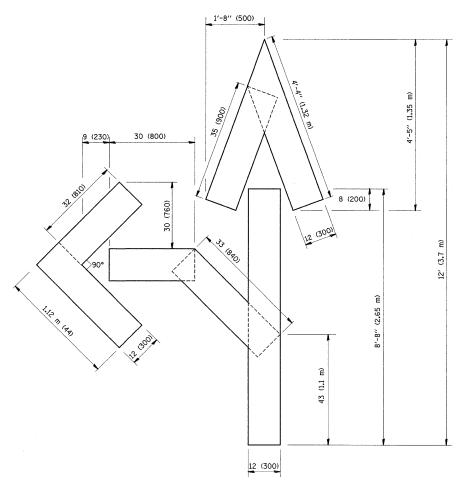
FILE NAME =	USER NAME = banksl	DESIGNED - EVERS	REVISED -T. RAMMACHER 10-27-94		DISTRICT ONE	F.A.U.	SECTION	COUNTY	TOTAL	SHEE1
c:\pw_work\pwidot\banksl\dms89376\DistSt	d.dgn	DRAWN -	REVISED -A. HOUSEH 10-09-96	STATE OF ILLINOIS		2714	0404 RS-10	COOK	18	14
	PLOT SCALE ≈ 50.0000 '/ IN.	CHECKED -	REVISED -A. HOUSEH 10-17-96	DEPARTMENT OF TRANSPORTATION	TYPICAL PAVEMENT MARKINGS	TC-13		CONTRACT	NO. 6	DF46
	PLOT DATE = 3/14/2009	DATE - 03-19-90	REVISED -T. RAMMACHER 01-06-00		SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.	FED. ROAL	FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			<u>// 10</u>







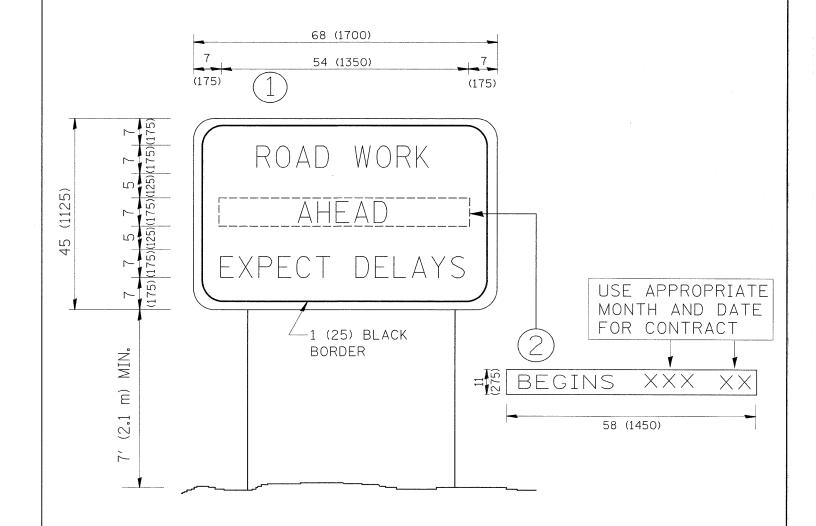
QUANTITY 4 (100) LINE = 45.5 ft. (13.9 m) 15.2 sq. ft. (1.39 sq. m)



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 = banksl	DESIGNED -	REVISED -T. RAMMACHER 06-05-96			PAVEMENT MARKING LETTERS AND SYMBOLS		F.A.U. RTE.	SECTION	COUNTY	TOTAL	SHEET NO.
c:\pw_work\pwidot\banksl\dms89376\DistSt	td.dgn	DRAWN -	REVISED -T. RAMMACHER 11-04-97		FOR TRAFFIC STAGING			2714	0404 RS-10	соок	18	16
	PLOT SCALE = 50.0000 '/ IN.	CHECKED -	REVISED -T. RAMMACHER 03-02-98	DEPARTMENT OF TRANSPORTATION				"	TC-16	CONTRACT	NO. 60)F46
	PLOT DATE = 3/14/2009	DATE - 09-18-94	REVISED -E. GOMEZ 08-28-00		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS STA.	TO STA.	FED. ROAD DIST.	NO. 1 ILLINOIS FED. A	D PROJECT		



NOTES:

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

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

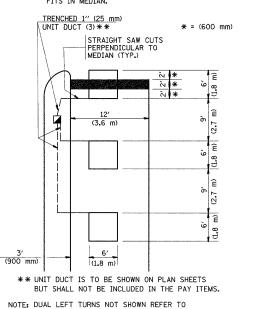
Г	FILE NAME =	USER NAME = banksl	DESIGNED -	REVISED	- R. MIRS 09-15-97			ARTERIAL ROAD		F.A.U.	SECTION	COUNTY	TOTAL	SHEET
	c:\pw_work\pwidot\banksl\dms89376\DistSt	d.dgn .	DRAWN -	REVISED	- R. MIRS 12-11-97	STATE OF ILLINOIS				2714	0404 RS-10	соок	18	17
		PLOT SCALE = 50.00000 '/ IN.	CHECKED ~	REVISED	-T. RAMMACHER 02-02-99	DEPARTMENT OF TRANSPORTATION		INFORMATION SIGN			TC-22	CONTRACT	T NO. 6	1F46
		PLOT DATE = 3/14/2009	DATE -	REVISED	- C. JUCIUS 01-31-07		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS STA.	TO STA.	FED. ROAD		D. AID PROJECT		

PROVIDE A PAVEMENT REPLACEMENT NOTE WHICH SHOULD EQUAL 3' (900 mm) X WIDTH OF PAVED SHOULDER. PAVED OR NON-PAVED SHOULDER PAVED OR NON-PAVED SHOULDER 1'' (25 mm) UNIT DUCT TRENCHED TO E/P ** * * UNIT DUCT IS TO BE SHOWN ON PLAN SHEETS BUT SHALL NOT BE INCLUDED IN THE PAY ITEMS,

<u>LEFT TURN LANES WITH MEDIANS</u> VOLUME DENSITY ("FAR OUT" DETECTION) ON SAME APPROACH

(PROTECTED / PERMITTED LEFT TURN PHASING)

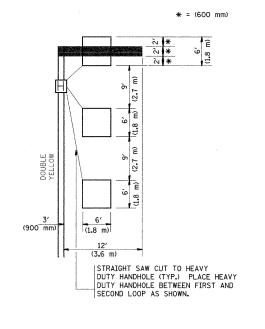
HANDHOLE LOCATION MAY VARY DEPENDING ON GEOMETRICS AND DESIGN OF TRAFFIC SIGNALS. HEAVY-DUTY HANDHOLES TO BE USED WHEN THE MEDIAN IS MOUNTABLE. REFER TO STANDARD 814001 TO ENSURE THAT HANDHOLE SITE IN MEDIAN



PLAN SHEET FOR DETECTOR LOOP REPLACEMENT

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

(PROTECTED / PERMITTED LEFT TURN PHASING)

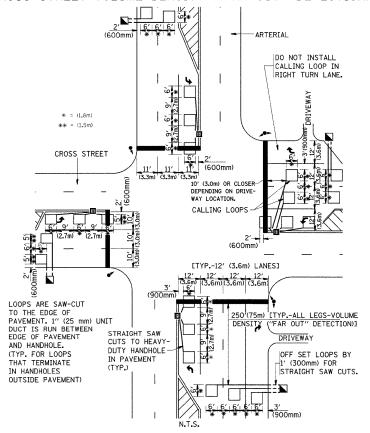


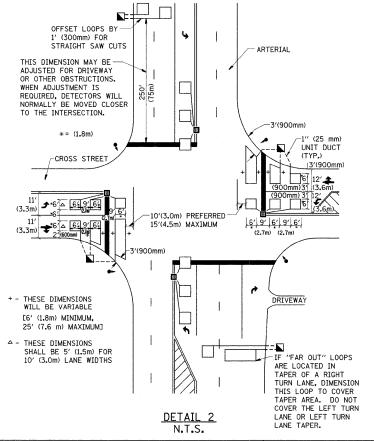
NOTE: DUAL LEFT TURNS NOT SHOWN REFER TO PLAN SHEET FOR DETECTOR LOOP REPLACEMENT

SCALE: NONE

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)





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 (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. <u>EACH</u> ONE OF THESE TYPE OF LOOPS REQUIRES A <u>SEPARATE</u> TWO CONDUCTOR NO. 14 TWISTED SHIELDED CABLE AND A <u>SEPARATE</u> 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.

	<u>DETA</u> N.T.		
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	PLOT SCALE = 50.0000 '/ IN.	CHECKED - R.K.F.	REVISED -
	PLOT DATE = 3/14/2009	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT 1 - DETECTOR LOOP INSTALLATION
DETAILS FOR ROADWAY RESURFACING

SHEET NO. 1 OF 1 SHEETS STA. TO ST