STATE OF ILLINOIS

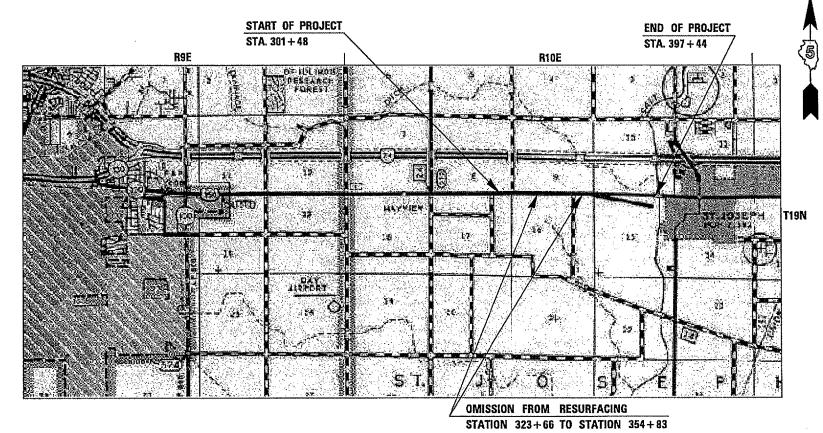
DEPARTMENT OF TRANSPORTATION

DIVISION OF HIGHWAYS

PROPOSED HIGHWAY PLANS

F.A.S. ROUTE 1512 (U.S. 150) **SECTION D5 CONTRACT MAINT 2005-14 CHAMPAIGN COUNTY**

> C-95-020-05 PATCHING AND INLAY



COUNTY TOTAL SHEETS
CHAMPAIGN 13 SECTION

. D5 CONTRACT MAINT 2005-14



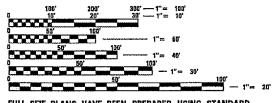
STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

ADT = 4750 (2003)

FOR INDEX OF SHEETS, SEE SHEET NO. 2

FOR SUMMARY OF QUANTITIES, SEE SHEET NO. 4



ENGINEERING SCALES, REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS

JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION 1-800-892-0123 ST. JOSEPH TOWNSHIP

CONTRACT NO. 70471

TOTAL LENGTH OF SECTION AND PROJECT = 9596 FEET = 1.817 MILES
NET LENGTH OF SECTION AND PROJECT = 6479 FEET = 1.227 MILES

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1512	•	CHAMPAIGN	13	2

CONTRACT NO.70471
D5 CONTRACT MAINT 2005-14

INDEX OF SHEETS

SHEET NUMBER	<u>ITEM</u>
1	COVER SHEET
2	INDEX OF SHEETS
2	LISTING OF HIGHWAY STANDARDS
3	GENERAL NOTES
4	SUMMARY OF QUANTITIES
5-6	EXISTING TYPICAL CROSS SECTIONS
7-8	PROPOSED TYPICAL CROOS SECTIONS
9	SCHEDULE OF QUANTITIES
10	DETAIL OF PAVEMENT PATCHING (PARTIAL DEPTH)
11-13	DETAIL OF TYPICAL APPLICATIONS OF PAVEMENT
	MARKINGS AND MARKERS

HIGHWAY STANDARDS

NUMBER	DECRIPTION
000001-04	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
001006	DECIMAL OF AN INCH AND OF A FOOT
701201-02	LANE CLOSURE, 2L, 2W, DAY ONLY, FOR SPEEDS > 45 MPH
701301-02	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
701306-01	LANE CLOSURE, 2L, 2W, SLOW MOVING OPERATIONS DAY
	ONLY, FOR SPEEDS > 45 MPH
701311-02	LANE CLOSURE, SL, 2W, MOVING OPERATIONS-DAY ONLY
702001-05	TRAFFIC CONTROL DEVICES
780001-01	TYPICAL PAVEMENT MARKINGS
781001-02	TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT
	MARKERS

GENERAL NOTES

F.A.S. SECTION COUNTY TOTAL SHEET SHEET NO. 1512 • CHAMPAIGN 13 3

CONTRACT NO. 70471

G.N.-100
ENGLISH UNITS OF MEASUREMENT SHALL GOVERN OVER AND SUPERSEDE ANY METRIC UNITS SHOWN IN THIS CONTRACT. WHERE INCLUDED, METRIC UNITS ARE FOR INFORMATION ONLY.

G.N.-406
THE QUANTITIES INCLUDED IN THE PLANS FOR BITUMINOUS
CONCRETE RESURFACING ARE INTENDED TO GIVE THE
COVERAGE SHOWN ON THE TYPICAL CROSS SECTIONS. IT IS
NOT INTENDED TO INCREASE THE THICKNESS OF THE
BITUMINOUS MIXTURE IN ORDER TO USE ALL OF THE
QUANTITIES INCLUDED IN THE CONTRACT.

G. N. -406H

MIXTURE REQUIREMENTS THE FOLLWING MIXTURE REQUIREMENTS ARE APPLICABLE FOR THIS PROJECT: US 150 US 150 LOCATION(S): MIXTURE USE(S): SURFACE PD PATCHING AC/PG: PG-64-22 PG-64-22 RAP%: (MAX)** 15% 25% DESIGN AIR VOIDS: 4.0% @ 4.0% @ NDESIGN=50 NDESIGN=50 IL-19.0 MIXTURE COMPOSITION: IL-9.5 N/ A FRICTION AGREGATE: MIX C

G.N.-442B -- PATCHING SCHEDULES
THE PATCHING SCHEDULES INCLUDED IN THE PLANS
REPRESENT THE BEST INFORMATION AVAILABLE AT
THE TIME OF COMPLETION OF THE PLANS FOR
LETTING. VARIATIONS IN LOCATION AND SIZES
OF BOTH FULL-DEPTH AND PARTIAL-DEPTH PATCHES
MAY OCCUR.

G.N.-442C -- PARTIAL DEPTH PATCHING DIMENSIONS FOR PARTIAL DEPTH PAVEMENT PATCHING, THE MINIMUM SIZE OF ANY PATCH SHALL BE 4 FT BY 4 FT. IF THE REPAIR OF ANY SMALLER AREAS IS REQUIRED, THAT WORK SHALL BE DESIGNATED AS *PAVEMENT CLEANING* AND WILL BE PAID FOR IN ACCORDANCE WITH ARTICLE 109.04.

SHORT TERM PAVEMENT MARKING SHALL BE APPLIED TO
THE PAVEMENT AFTER ANY OF THE FOLLOWING: COLD
MILLING AND/OR PLACING BITUMINOUS MATERIALS
(PRIME COAT), LEVELING BINDER (MACHINE METHOD),
BINDER AND SURFACE COURSES. SHORT TERM PAVEMENT
MARKING PLACED ON THE SURFACE, SHALL COINCIDE
WITH THE FINAL PAVEMENT STRIPING. SHORT TERM
PAVEMENT MARKING PLACED PRIOR TO THE SURFACE
SHALL COINCIDE WITH THE EXISTING PAVEMENT MARKINGS.
USE 4 FEET PER 40 FEET (OR 10% PER STATION).

G.N.-781
RAISED REFLECTIVE PAVEMENT MARKERS SHALL BE PLACED IN ACCORDANCE WITH STANDARD 781001, AND THE DETAILS SHOWN IN THE PLANS. IF THERE IS ANY DISCREPENCY BETWEEN THE STANDARD AND THE DETAILS IN THE PLANS, THE DETAILS IN THE PLANS SHALL GOVERN. THE FINAL PAVEMENT MARKINGS SHALL BE IN PLACE PRIOR TO PLACING THE RAISED REFLECTIVE PAVEMENT MARKERS AND THE RAISED REFLECTIVE PAVEMENT MARKERS SHALL BE PLACED MIDWAY IN THE 30 FOOT (9 m) SPACE BETWEEN THE DASHED CENTERLINE STRIPES (WHEN APPLICABLE).

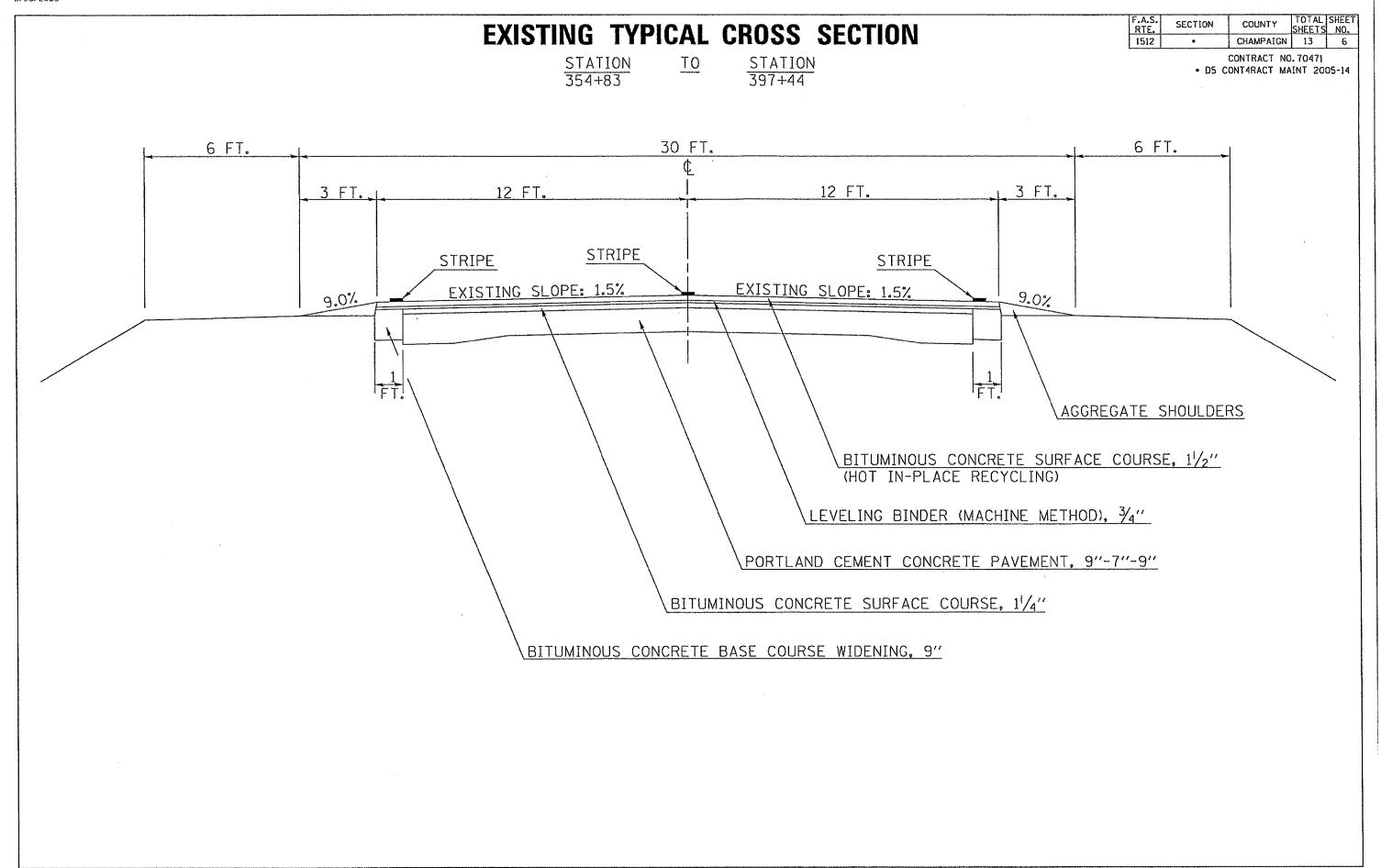
G.N.-1004.01 COARSE AGGREGATE GRADATION CA-10 MAY BE USED WHENEVER COARSE AGGREGATE CA-6 IS SPECIFIED IN THE STANDARD SPECIFICATIONS.

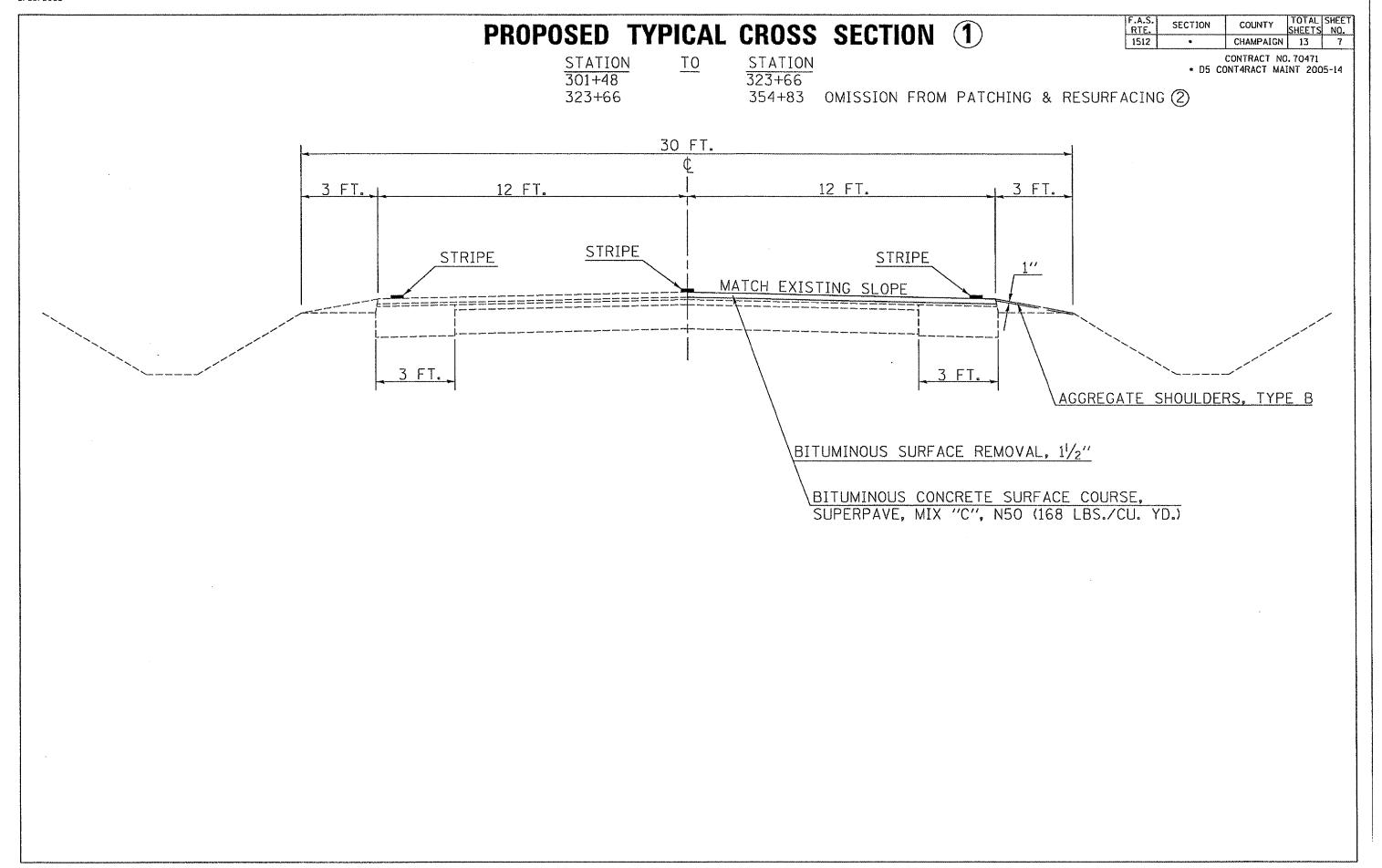
G.N.-1004.03 REVISE ARTICLE 1004.03 (c) NOTE 5/ OF THE STANDARD SPECIFICATIONS TO READ:

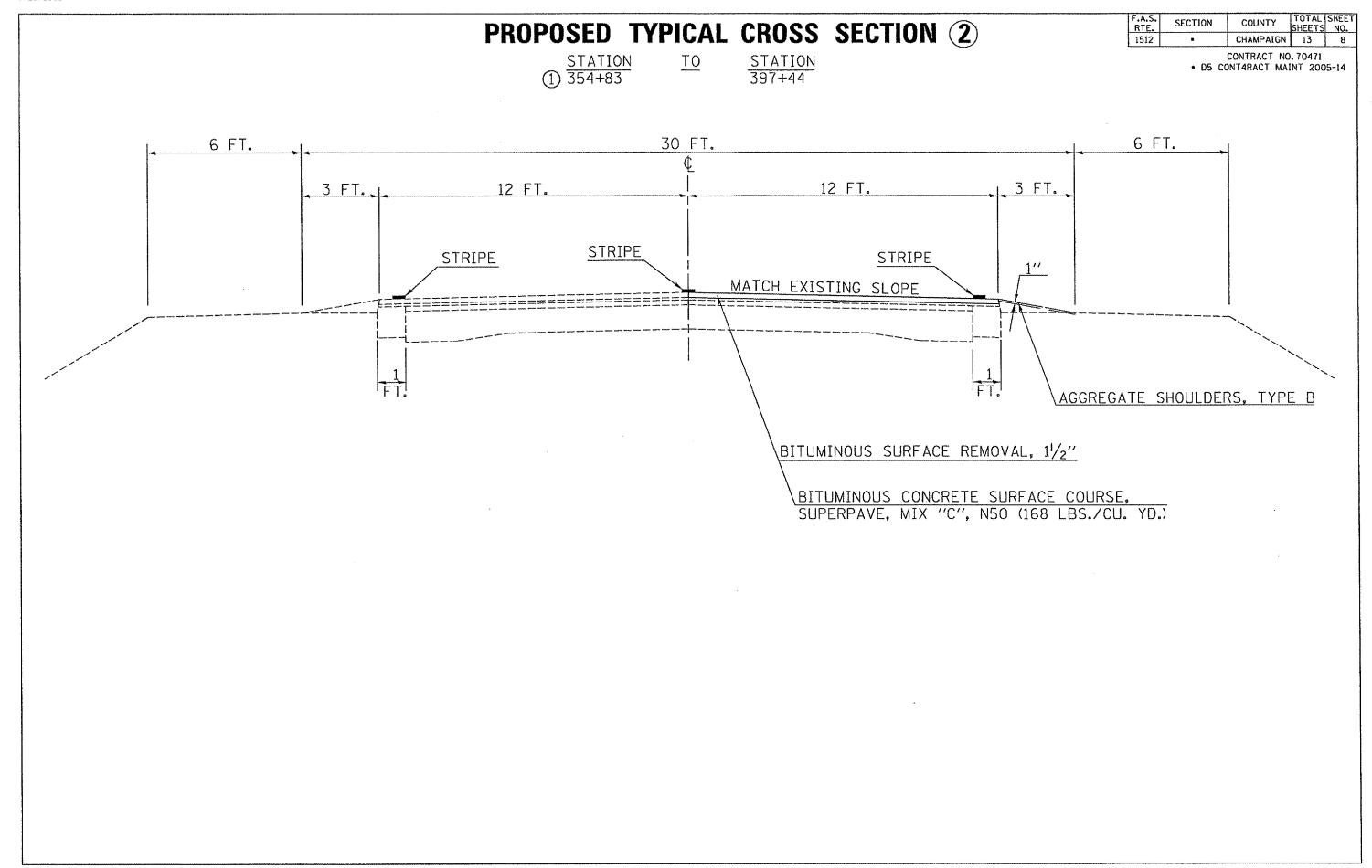
'5/ GRADATION CA-16 SHALL BE USED IN LIEU OF CA-13 WHEN THE SURFACE COURSE IS LESS THAN 1 3/4 INCHES IN THICKNESS. CA-13 OR CA-16 MAY BE USED WHEN THE SURFACE COURSE IS 1 3/4 INCHES OR MORE IN THICKNESS.'

	SUMMARY OF QUANTITIES		F.A.S. SECTION RTE. 1512 •	COUNTY TOTAL SHEET SHEETS NO. CHAMPAIGN 13 4
	LOCATION OF WORK:		FAS 1512 (US 150) Sta. 301+48 to Sta. 323+66	CONTRACT NO.70471 CONTRACT MAINT 2005-14
			Sta. 354+83 to Sta. 397+44 100% STATE RURAL TWO-LANE	
CODE NO	CONSTRUCTION TYPE CODE:	UNIT	IOOO TOTAL QUANTITY	
40600100	BITUMINOUS MATERIALS (PRIME COAT)	GALLON	432.0	
40600300	AGGREGATE (PRIME COAT)	TON	9. 0	
40600990	TEMPORARY RAMP	SQ YD	27.0	
44000006	BITUMINOUS SURFACE REMOVAL 1 1/2"	SQ YD	8,639.0	
48101200	AGGREGATE SHOULDERS, TYPE B	TON	108.0	
67100100	MOBILIZATION	L SUM	1. O	
70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	L SUM	1.0	
70100460	TRAFFIC CONTROL AND PROTECTION, STANDARD 701306	L SUM	1.0	
70300100	SHORT-TERM PAVEMENT MARKING	FOOT	1,178.0	
70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SQ FT	196.0	
* 78001110	PAINT PAVEMENT MARKING - LINE 4"	FOOT	8,099.0	
* 78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	83.0	
78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	83.0	
X4066414	BITUMINOUS CONCRETE SURFACE COURSE, SUPERPAVE, MIX "C", N50	TON	726.0	
X4401705	PARTIAL DEPTH REMOVAL	SQ YD	192.0	
Z0004800	BITUMINOUS MIXTURE FOR PATCHING	TON	70.0	
* SPE	CIALITY ITEMS			

F.A.S. RTE. 1512 SECTION **EXISTING TYPICAL CROSS SECTION** CHAMPAIGN CONTRACT NO. 70471 STATION <u>T0</u> STATION * D5 CONT4RACT MAINT 2005-14 301+48 323+66 30 FT. 3 FT. J 12 FT. 12 FT. STRIPE STRIPE STRIPE EXISTING SLOPE: 1.5% EXISTING SLOPE: 1.5% 9.0% 9.0% 3 FT 3 FT. AGGREGATE SHOULDERS BITUMINOUS CONCRETE SURFACE COURSE, 11/2" (HOT IN-PLACE RECYCLING) LEVELING BINDER (MACHINE METHOD), 3/4" \PORTLAND CEMENT CONCRETE PAVEMENT, 7" BITUMINOUS CONCRETE SURFACE COURSE, 11/4" BITUMINOUS CONCRETE BASE COURSE WIDENING, 9"







SCHEDULE OF QUANTITIES SCHEDULE OF QUANTITIES CONTRACT NO. 70471									CHAMPAIGN 13 9 ONTRACT NO. 70471		
TEMPORARY F	RAMP - 4	40600990				SCHEDULE	FOR PARTI	AL DEPTH	H PATCHING	▶ Ð5 COI	NTRACT MAINT 2005-14
STATION	DIREC		AREA								
301+48	EASTBO		6. 7					1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			
323+66	EASTBO		6. 7	STATION	DIRECTION	LANE	LENGTH	WIDTH	EXISTING	PARTIAL	BIT MIX
354+83	EASTB(6. 7						OVERLAY	DEPTH S REMOVAL	FOR PATCHING
397+44	EASTBO		6. 7						IUTCKNE2:	X4401705	Z0004800
	***********		= 26.7 SQ YD				(ft)	(ft)	(inch)	(sq. yd)	(Ton)
	***************************************		= 27.0 SQ YD	302+08	EASTBOUND	DL	25	12	3. 5	33. 3	12.1
	LINA	_ IUIAL -	- 21.0 JU IU	305+81	EASTBOUND	DL	10	6	3. 5	6. 7	2.4
				308+41	EASTBOUND	DL	6	12	3. 5	8.0	2.9
PAINI PAVEN	MENI MAI	<u> KING LIN</u>	NE. 4 INCH - 78001110	309+32	EASTBOUND	DL	15	6	3. 5	10.0	3.6
				312+02	EASTBOUND	DL	4	12	3. 5	5. 3	1.9
YELLOW				313+22	EASTBOUND	DL	8	12	3, 5	10.7	3. 9
STATION	TO :	STATION	LENGTH	315+19	EASTBOUND	DL	30	6	3. 5	20.0	7.3
301+48		323+66	554.5	318+33	EASTBOUND	DL	25	6	3. 5	16.7	6. 1
354+83		397+44	1065. 3	322+00	EASTBOUND	DL	10	6	3. 5	6. 7	2.4
JUNTOJ	•	***************************************		322+36	EASTBOUND	DL	30	6	3. 5	20.0	7.3
		1017	AL = 1619.8 FT	359+08	EASTBOUND	DL	10	6	3.5	6. 7	2.4
WHITE				362+08 364+69	EASTBOUND EASTBOUND	DL	6 6	12 12	3.5	8.0	2.9
STATION	TO :	STATION	LENGTH	364+69 378+28		DL DL	10	12	3.5	8. O	2.9
301+48		323+66	2218. 0	378+28 379+27	EASTBOUND		10		3. 5	13.3	4.9
354+83		397+44	4261.0	319+21 380+92	EASTBOUND EASTBOUND	DL DL	8 6	12 12	3.5 3.5	10.7 8.0	3. 9 2. 9
331103		TOTA		JOUTUZ	CASIDUUNU	DL	О	1 2	J. J	0. U	۷. ۶
			AL = 8098.8 FT					•	SUB-TOTALS	= 192.0	69.9
	F		AL = 8099.0 FT							(sq. yd)	(Ton)
								FII	NAL TOTALS		70.0
										(sq. yd)	(Ton)

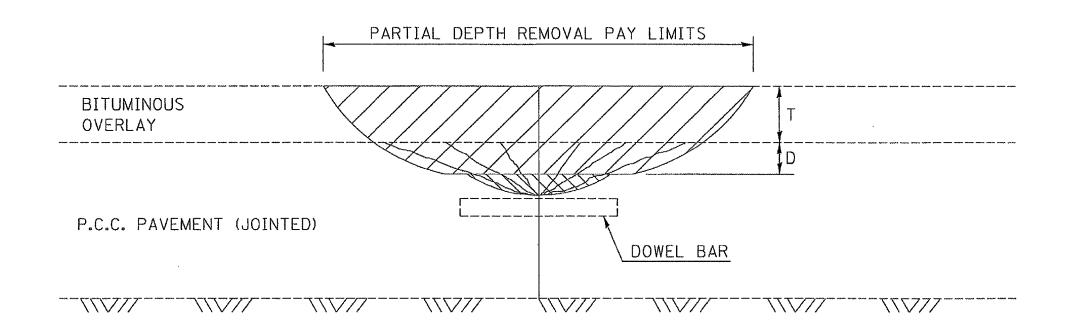
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEE
1512	•	CHAMPAIGN	13	10

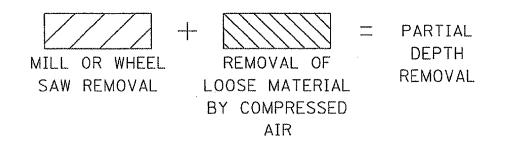
CONTRACT NO. 70471

DS CONTRACT MAINT 2005-14

PAVEMENT PATCHING (PARTIAL DEPTH)

(PREVIOUSLY RESURFACED JOINTED P.C.C. PAVEMENT)





GENERAL NOTES

ALL VOLUME OF REMOVAL LIMITS TO BE REPLACED WITH BITUMINOUS MIXTURE FOR PATCHING.

T = THICKNESS OF BITUMINOUS OVERLAY(S). SEE TYPICAL CROSS SECTIONS.

D = DEPTH OF MACHINE REMOVAL INTO EXISTING P.C.C. PAVEMENT (3" (75 mm) ± OR TO SOUND CONCRETE).

JOINT LOCATION SHOWN - OTHER LOCATIONS SIMILAR.

	NAME	DATE	REVISIONS	
DESIGNED	D.L.P.	2/99	NAME.	DATE
CHECKED	J.M.S.	2/99	D.L.P.	03/99
CADD NO.	C-5	.01	K.A.G.	06/03

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

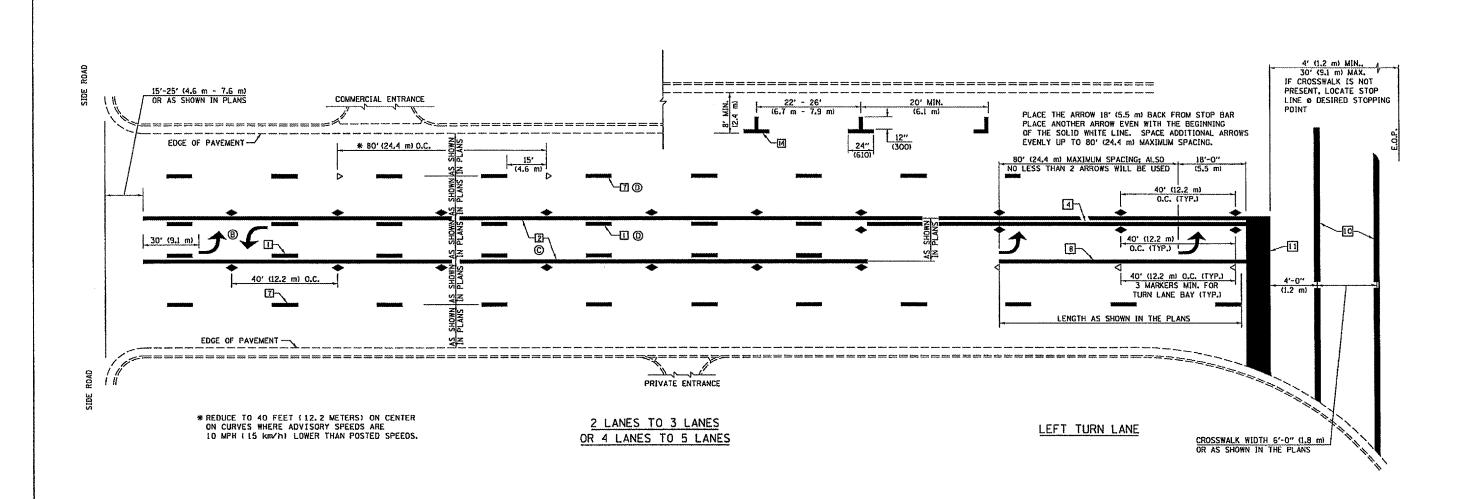
F.A.S. RTE. SECTION COUNTY SHEETS NO. TYPICAL APPLICATIONS OF PAVEMENT MARKINGS AND MARKERS 1512 CHAMPAIGN 13 11 CONTRACT NO. 70471 • D5 CONTRACT MAINT 2005-14 TYPICAL PAVEMENT MARKING LEGEND TYPICAL PAVEMENT MARKERS LEGEND TWO-WAY AMBER MARKER 1 4" (100) SKIP-DASH (YELLOW) 10' (3.05 m) (TYP.) ONE-WAY AMBER MARKER 2 4" (100) SOLID (YELLOW) & PAVEMENT-AS SHOWN IN THE PLANS ONE-WAY CRYSTAL MARKER 3 12" (300) DIAGONAL (YELLOW) 4" (100) YELLOW r 2" (50) 4" (100) DOUBLE YELLOW (NARROW) * 80' (24.4 m) 🚾 6" (150) CTS. 5 RESERVED EDGE STRIPE TO END AT RADIUS 6 RESERVED SIDEROAD * 80' (24.4 m) O.C. 7 4" (100) SKIP-DASH (WHITE) SIDESTREET 10" (250)-1 -4" (100) (NOT STRIPED) 8 4" (100) SOLID (WHITE) LE PAVEMENT * 80' (24.4 m) O.C. ---9 12" (300) DIAGONAL (WHITE) C PAVEMENT 10 6" (150) CROSS WALK (WHITE) SINGLE NO PASSING DOUBLE NO PASSING 11 24" (600) STOP BAR (WHITE) * REDUCE TO 40' (12.2 m) O.C. ON CURVES WITH POSTED OR ADVISORY 12 8" (200) SOLID (WHITE) SPEEDS OF 45 mph (70 km/h) OR LESS. [3] 4" (100) LANE LINE EXTENSIONS (WHITE) 14 4" (100) PARKING WHITE DETAIL OF RURAL LEFT TURN LANE 40' (12.2 m) O.C. (TYP.) 3 MARKERS MIN. -- 2' (600 mm) R 15' - 25' (4.6 m - 7.6 m) OR AS SHOWN IN PLANS, STRIPED SIDEROAD OR SIDESTREET *** REDUCE SPACING IF NECESSARY TO ASSURE MARKERS AT CORNER POINTS. ** TURN ARROWS SHALL BE PLACED AS SHOWN ON SHEET *2. SHEET 1 OF 3 NAME DATE REVISIONS NAME DATE ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) GEOMETRICS/K.A.G. 07/02 UNLESS OTHERWISE SHOWN. CHECKED

 F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1512	•	CHAMPAIGN	13	12

CONTRACT NO. 70471

• D5 CONTRACT MAINT 2005-14

TYPICAL APPLICATIONS OF PAVEMENT MARKINGS AND MARKERS



٥ħ	16	= I	2	Or	٠ 3

	NAME	DATE	REVISIONS		
DESIGNED	J.M.H.	5/85 6/88	NAME	DATE	ALL DIMENSIONS ARE
CHECKED	FMS CTD	6/85 6/88	GEOMETRICS/K.A.G.	07/02	UNLESS OTHERWISE S
CADD NO	r.c	25	VAC	09/04	

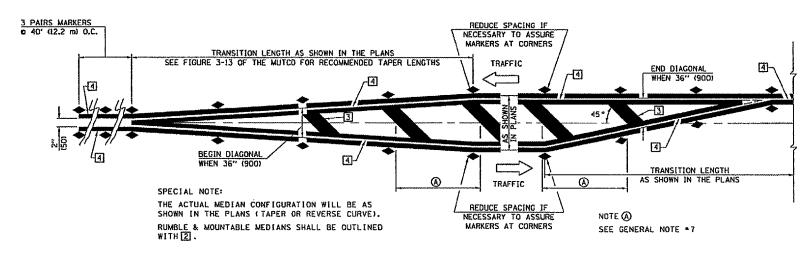
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F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1512		CHAMPAIGN	13	13

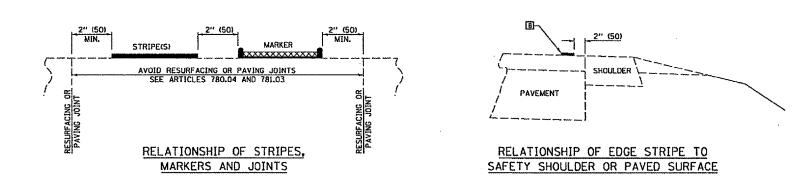
CONTRACT NO. 70471

* D5 CONTRACT MAINT 2005-14

TYPICAL APPLICATIONS OF PAVEMENT MARKINGS AND MARKERS



TYPICAL MEDIAN TRANSITIONS

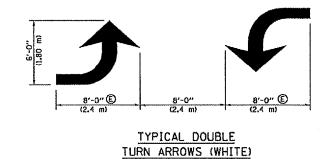


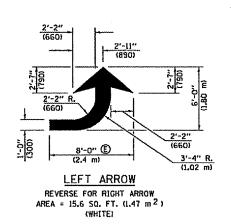
SPECIAL NOTES

- (B) TURN ARROW PAIRS SHALL BE PLACED AT 250' (75 m) INTERVALS AND SHALL BE EVENLY SPACED BETWEEN BOTH ENDS OF THE BIDIRECTIONAL LEFT TURN LANE.
- THE SOLID YELLOW PAVEMENT MARKINGS [2]
 SHOULD GENERALLY START OR END NEAR THE
 RADIUS POINT OF EACH STREET RETURN EXCEPT
 WHERE ONE OR BOTH ENDS WOULD INCLUDE
 STOP BARS.
- THE SKIP-DASH PAVEMENT MARKINGS [] OR [7] SHOULD BE CENTERED BETWEEN BOTH ENDS OF EACH CITY BLOCK AND SHALL BE PLACED SO THEY LINE UP ACROSS FROM EACH OTHER. SEE EXAMPLE ON SHEET 2 OF 3.
- TURN ARROW SIZE DEPENDS ON THE LOCATION.
 RURAL LOCATION LARGE ARROW SIZE
 URBAN LOCATION SMALL ARROW SIZE

GENERAL NOTES

- 1. WHEN MEDIANS ARE PRESENT, PAVEMENT MARKINGS ARE TO BE PLACED ADJACENT TO MEDIANS.
- 2. SCALE: NONE
- 3. SOME OF THE INFORMATION INCLUDED WITH THIS DETAIL MAY NOT BE APPLICABLE TO THIS IMPROVEMENT.
- 4. PAVEMENT MARKINGS ARE TO BE EXTENDED THROUGH OMISSIONS WHEN APPLICABLE.
- 5. A STRIPING KEY IS AVAILABLE ELSEWHERE AND SHALL BE SHOWN WHERE THE QUANTITIES ARE LISTED.
- 6. FINAL PAVEMENT MARKINGS SHALL BE IN PLACE PRIOR TO PLACING ANY RAISED REFLECTIVE PAVEMENT MARKERS.
- 7. THE FOLLOWING CRITERIA SHALL BE USED FOR SELECTING THE DIAGONAL PAVEMENT MARKING SPACING, <30 MPH USE 15' (<50 km/h USE 4.5 m) 30-45 MPH USE 20' (<50-75 km/h USE 6.0 m) >45 MPH USE 30' (>75 km/h USE 9.0 m)





SHEET 3 OF 3

	NAME	DATE	REVISIONS		
DESIGNED	J.M.H.	5/85 6/88	NAME	DATE	1
CHECKED	FMS CTD	6/85 5/88	GEOMETRICS/K,A.G.	07/02	
CAOD NO.	F-5	.25	K.A.G.	08/04	1

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