ROUTESECTIONCOUNTYTOTAL
SHEETSSHEET
NUMBERFAP 3442005-016PCC-PPLAKE141

IMPROVEMENT

ENDS:

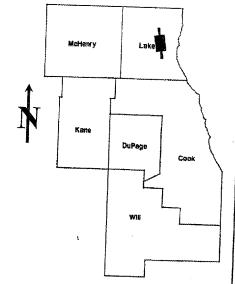
STA. 21+00

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS DISTRICT ONE PROPOSED HIGHWAY PLANS

FAP 344: US RTE 45 (S. LAKE ST.)
N. OF IL RTE. 60 (TOWNLINE RD.)
SECTION: 2005-016PCC-PP
PCC PATCHING
LAKE COUNTY
C-91-178-05

CONTRACT NO. 62939

D-91-178-05



LOCATION OF IMPROVEMENT INDICATED THUS:

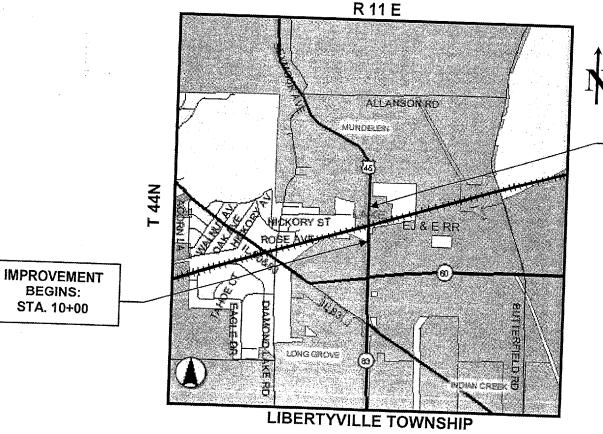
TRAFFIC DATA

FOR INDEX OF SHEETS SEE SHEET 2

IMPROVEMENT LOCATED IN THE

CITY OF MUNDELEIN

SPEED LIMIT = 40 MPH 2003 ADT = 30,500



GROSS LENGTH OF IMPROVEMENT = 1100 FT = 0.21 MILES

NET LENGTH OF IMPROVEMENT = 1100 FT = 0.21 MILES

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED:

July 7, 20 05

DEPUTY DIRECTOR OF HIGHWA

august 19, 20 05

NGINEER OF DESIGN AND ENVIRONM

August 19, 200: Victor Modeers

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

J.U.L.I.E.: JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION (312) 744-7000

CONTRACT NO. 62939

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
FAP 344	2005-016PCC-PP	LAKE	14	2

INDEX OF SHEETS

SHEET NO.	DESCRIPTION
1	TITLE SHEET
2	INDEX OF SHEETS, STATE STANDARDS
3	GENERAL NOTES
4	SUMMARY OF QUANTITIES
5	TYPICAL SECTION
6 - 7	PAVEMENT PATCHING SCHEDULE
8	DETECTOR LOOPS REPLACEMENT PLAN
9	DISTRICT ONE STANDARD TRAFFIC SIGNAL DESIGN DETAILS
10	DISTRICT ONE TYPICAL PAVEMENT MARKINGS
11	TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS AND DRIVEWAYS
12	CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT
13	DISTRICT ONE TYPICAL APPLICATIONS OF RAISED REFLECTIVE PAVEMENT MARKERS
14	TRAFFIC CONTROL AND PROTECTION AT TURN BAYS

STATE STANDARDS

420001-06	PAVEMENT JOINTS
420101 -0,3	7.2 M (24') JOINTED PCC PAVEMENT
420111-01	PCC PAVEMENT ROUNDOUTS
420701-01	PAVEMENT FABRIC
442101-05	CLASS B PATCHES
701101-01	OFF-ROAD OPERATIONS, MULTILANE, 15' TO 24" FROM PAVEMENT EDGE
701301-02	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
701606-04	URBAN LANE CLOSURE, MULTILANE, 2W WITH MOUNTABLE MEDIAN
701701-04	URBAN LANE CLOSURE, MULTILANE INTERSECTION
702001-05	TRAFFIC CONTROL DEVICES

ILLINOIS DEPARTMENT OF TRANSPORTATION

INDEX OF SHEETS STATE STANDARDS

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
FAP 344	2005-016PCC-PP	LAKE	14	3

GENERAL NOTES

- 1. BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL "J.U.L.I.E." AT (800) 892-0123 FOR FIELD LOCATIONS OF BURIED ELECTRIC, TELEPHONE AND GAS UTILITIES. (48 HOUR NOTIFICATION IS REQUIRED).
- 2. THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES.
- 3. THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON STATE PROPERTY WITHOUT WRITTEN PERMISSION FROM THE DEPARTMENT.
- 4. BEFORE BEGINNING ANY WORK, THE CONTRACTOR SHALL RETAIN AND RECORD (FOR FUTURE REFERENCES) OF ALL EXISTING PAVEMENT MARKING LINES AND RAISED REFLECTIVE PAVEMENT MARKERS IN ORDER THAT THESE LOCATIONS CAN BE RE-ESTABLISHED FOR STRIPING. EXACT LOCATION OF ALL PAVEMENT MARKINGS SHALL BE AS DIRECTED BY THE ENGINEER.
- 5. LOCATION OF COMBINATION CONCRETE CURB AND GUTTER REMOVAL AND COMBINATION CURB AND GUTTER (THE TYPE SPECIFIED ON THE PLANS), WILL BE DETERMINED IN THE FIELD BY THE ENGINEER.
- 6. DRAINAGE ADJUSTMENT OR RECONSTRUCTION LOCATIONS WILL BE DETERMINED IN THE FIELD BY THE ENGINEER.
- 7. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND CONDITIONS EXISTING IN THE FIELD PRIOR TO CONSTRUCTION AND ORDERING OF MATERIALS.
- 8. FRAMES AND GRATES ADJUSTMENT OF PRIVATE UTILITIES WITHIN THE LIMITS OF THE IMPROVEMENTS SHALL BE DONE BY THEIR RESPECTIVE OWNERS AND ARE NOT PART OF THIS CONTRACT.
- THE ENGINEER SHALL CONTACT DEBBIE HANLON, TRAFFIC FIELD TECHNICIAN AT (847)438-2300 TWO (2) WEEKS PRIOR TO THE START OF THIS PROJECT SO THAT EXACT STATIONING OF NO PASSING ZONES AND OTHER PERMANENT PAVEMENT MARKINGS MAY BE ESTABLISHED.

- 10. THE CONTRACTOR SHALL CONTACT THE DISTRICT ONE TRAFFIC CONTROL SUPERVISOR AT (847) 705-4470 A MINIMUM OF 72 HOURS IN ADVANCE OF BEGINNING WORK.
- 11. 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.
- 12. THESE PLANS HAVE BEEN PREPARED FROM NOTES RECEIVED FROM THE BUREAU OF MAINTENANCE.
- 13. THE CONTRACTOR SHALL BE REQUIRED TO PROVIDE ACCESS TO ABUTTING PROPERTY AT ALL TIMES DURING THE CONSTRUCTION OF THIS PROJECT.
- 14. THE ENGINEER SHALL OBTAIN APPROVAL FROM THE DISTRICT ONE BUREAU CHIEF OF MAINTENANCE FOR ANY PROPOSED REVISIONS IN THE SCHEDULED PAVEMENT PATCHING LOCATIONS.
- 15. DO NOT SCALE PLANS FOR CONSTRUCTION DIMENSIONS.
- 16. ALL CLASS B PAVEMENT PATCHING WHICH REQUIRES FRAMES AND GRATES TO BE ADJUSTED SHALL BE CONSTRUCTED UTILIZING "CAST IN PLACE" PCC PAVEMENT ROUNDOUTS ACCORDING TO STATE HIGHWAY STANDARD 420111.
- 17. LOCATION OF COMBINATION CONCRETE CURB AND GUTTER REMOVAL AND COMBINATION CURB AND GUTTER, WILL BE DETERMINED BY THE ENGINEER.

ILLINOIS DEPARTMENT OF TRANSPORTATION

GENERAL NOTES

			TOTAL	SHEET
ROUTE	SECTION	COUNTY	SHEETS	NUMBER
FAP 344	2005-016PCC-PP	LAKE	14	4

SUMMARY OF QUANTITIES

CONTRACT 62939

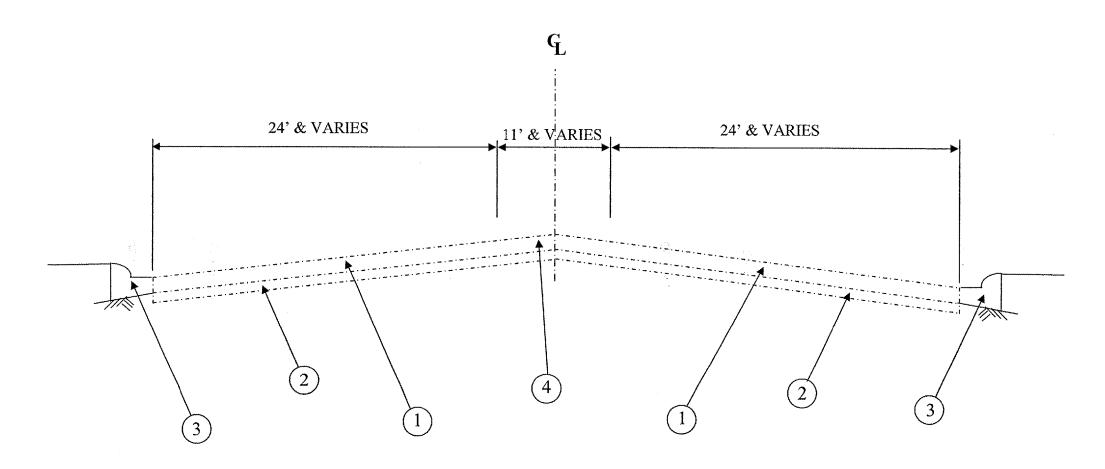
			CONSTRUCTION TYPE CODE
			URBAN - JOOO
CODE NUMBER	DESCRIPTION	UNIT	TOTAL
42001200	PAVEMENT FABRIC	SQ YD	485.3
42001300	PROTECTIVE COAT	SQ YD	1105.3
44001700	COMBINATION CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT	FOOT	100
44200970	CLASS B PATCHES, TYPE II, 10 INCH	SQ YD	600.0
44200974	CLASS B PATCHES, TYPE III, 10 INCH	SQ YD	272.0
44200976	CLASS B PATCHES, TYPE IV, 10 INCH	SQ YD	213.3
44213200	SAW CUTS	FOOT	5174
60300105	FRAMES AND GRATES TO BE ADJUSTED	EACH	2
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	<u>‡</u> 1
67100100	MOBILIZATION	LSUM	1
70102625	TRAFFIC CONTROL AND PROTECTION, STANDARD 701606	LSUM	1 .
70102635	TRAFFIC CONTROL AND PROTECTION, STANDARD 701701	L SUM	1
★ 78008210	POLYUREA PAVEMENT MARKING TYPE I - LINE 4"	FOOT	465
* 78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	50
★ 88600600	DETECTOR LOOP REPLACEMENT	FOOT	66
x0322467	TEMPORARY INFORMATION SIGNING FOR LANE CLOSURE	SQ FT	48
Z0017202	DOWEL BARS, 1 ½"	EACH	1760
Z0075300	TIE BARS	EACH	208
			,

ILLINOIS DEPARTMENT OF TRANSPORTATION

US RTE. 45 SUMMARY OF QUANTITIES

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
FAP 344	2005-016PCC-PP	LAKE	14	5

US RTE. 45
EXISTING AND PROPOSED
TYPICAL SECTION



- 1. P.C.C. PAVEMENT, 10"
- 2. STABILIZED SUB-BASE, 4"
- 3. CONCRETE COMBINATION CURB AND GUTTER, TYPE B-6.24 OR B-9.24
- 4. PAINTED MEDIAN

ILLINOIS DEPARTMENT OF TRANSPORTATION

US RTE. 45 TYPICAL SECTION

			TOTAL	SHEET
ROUTE	SECTION	COUNTY	SHEETS	NUMBER
FAP 344	2005-016PCC-PP	LAKE	14	6

SOUTHBOUND US RTE. 45

		LANE 1							LANE 2		
name.			SIZE	-	AREA			SIZE		AREA	
PATCH LOCATION NUMBER	STATION	(L	Х	W)	(SQ. YD.)	TYPE	(L	Х	W)	(SQ. YD.)	TYPE
1	10+14	6	X	12	8.0	II	6	X	12	8.0	II
2	10+45	16	x	12	21.3	III	16	x	12	21.3	III
*3	10+96	6	X	12	8.0	II	6	X	12	8.0	II
4	11+51	6	X	12	8.0	II	6	X	12	8.0	II
5	11+96	19	X	12	25.3	IV	19	X	12	25.3	IV
6	12+42	6	x	12	8.0	Π	6	X	12	8.0	II
7	12+60	6	Х	12	8.0	II	6	X	12	8.0	II
8	13+07	6	X	12	8.0	II	6	X	12	8.0	II
9	13+50	6	X	12	8.0	Π	13	X	12	17.3	III
10	13+90	6	X	12	8.0	II	6	X	12	8.0	П
11	14+45	17	X	12	22.7	III	17	X	12	22.7	III
12	15+12	6	Х	12	8.0	Π	6	Х	12	8.0	II
13	15+79	13	X	12	17.3	III	6	Х	12	8.0	П
14	16+04	13	Х	12	17.3	Ш	13	X	12	17.3	III
15	16+50	6	х	12	8.0	· II	6	X	12	8.0	П
16	17+00	39	х	12	52.0	IV	9	X	12	12.0	П
17	17+57	6	X	12	8.0	II	6	X	12	8.0	II
18	18+04	6	Х	12	8.0	II					
19	18+59	6	x	12	8.0	II	6	X	12	8.0	II
20	18+82	23	х	12	30.7	IV	6	X	12	8.0	II
21	19+15	6	Х	12	8.0	II			***************************************		
22	19+50	10	Х	12	13.3	II	6	X	12	8.0	II
23	19+95	13	x	12	17.3	Ш	13	х	12	17.3	III
24	20+50	11	x	12	14.7	П	11	x	12	14.7	II
25	21+00	10	х	12	13.3	П	10	x	12	13.3	II

*NOTE: DETECTOR LOOPS LOCATED AT STA. 11+00 SB WILL BE REPLACED DURING PATCHING LOCATION #3

Centerline of Hickory St.: Sta. 19+09
 Centerline of EJ&E bridge: Sta. 15+68

3. Mundelein Firestation Access begins at Sta. 20+95 and ends at Sta. 21+90

CONTRACT 62939

NORTHBOUND US RTE 45

		LANE 1			LANE 2						
PATCH LOCATION			SIZE		AREA (SQ.			SIZI		AREA (SQ.	
NUMBER	STATION	(L	X	W)	YD.)	TYPE	(L	X	W)	YD.)	TYPE
**26	21+00						60	X	12	80.0	IV
27	19+53	6	X	12	8.0	II	6	X	12	8.0	II
28	19+49	6	X	12	8.0	II	6	X	12	8.0	II
29	19+39						6	X	12	8.0	П
30	18+60	17	X	12	22.7	III	17	х	12	22.7	Ш
31	17+55	6	X	12	8.0	II	6	X	12	8.0	II
32	17+00	6	Х	12	8.0	II	6	X	12	8.0	II
33	16+45	6	х	12	8.0	II	6	Х	12	8.0	II
34	16+00	6	X	12	8.0	II	6	X	12	8.0	II
35	15+16	6	X	12	8.0	II	6	X	12	8.0	II
36	14+63	6	X	12	8.0	П	6	X	12	8.0	II
37	14+48	6	X	12	8.0	II	6	X	12	8.0	II
38	13+89	6	X	12	8.0	II	6	Х	12	8.0	II
39	13+65	- 6	х	12	8.0	II	6	Х	12	8.0	II
40	13+47	10	х	12	13.3	II	10	Х	12	13.3	II
41	13+03	9	х	12	12.0	II	6	X	12	8.0	II
42	12+60	6	х	12	8.0	II	6	X	12	8.0	II
43	11+96	6	x	12	8.0	П	6	х	12	8.0	II
44	11+50	6	х	12	8.0	П	6	X	12	8.0	II
45	11+00	13	Х	12	17.3	III	13	X	12	17.3	III -
46	10+57	6	х	12	8.0	П	6	x	12	8.0	II

**NOTE: C&G WILL BE REPLACED NEXT TO PATCHING LOCATION #26 AND ALSO 40 FT FROM STA. 10+00 TO 10+40 ON NB.

ILLINOIS DEPARTMENT OF TRANSPORTATION

US ROUTE 45
PAVEMENT PATCHING SCHEDULE

			TOTAL	SHEET
ROUTE	SECTION	COUNTY	SHEETS	NUMBER
FAP 344	2005-016PCC-PP	LAKE	14	7

PATCHING SCHEDULE NOTES AND INFORMATION

US ROUTE 45

PAVEMENT PATCHING SUMMARY

Pavement Patching (sq. yd.): US 45 Southbound

	LANE 1	LANE 2	Subtotal
Class B Patches, Type I 10"	0.0	0.0	0.0
Class B Patches, Type II 10"	153.3	152.0	305.3
Class B Patches, Type III 10"	96.0	96.0	192.0
Class B Patches, Type IV 10"	108.0	25.3	133.3

Pavement Patching (sq. yd.): US 45 Northbound

:	LANE 1	LANE 2	Subt	otal
Class B Patches, Type I 10"	0.0	∜0.0	₹ . ÷	0.0
Class B Patches, Type II 10"	145.3	149.3	\$	294.7
Class B Patches, Type III 10"	40.0	40.0		80.0
Class B Patches, Type IV 10"	0.0	80.0		80.0

Total Pavement Patching (sq. yd.): US 45

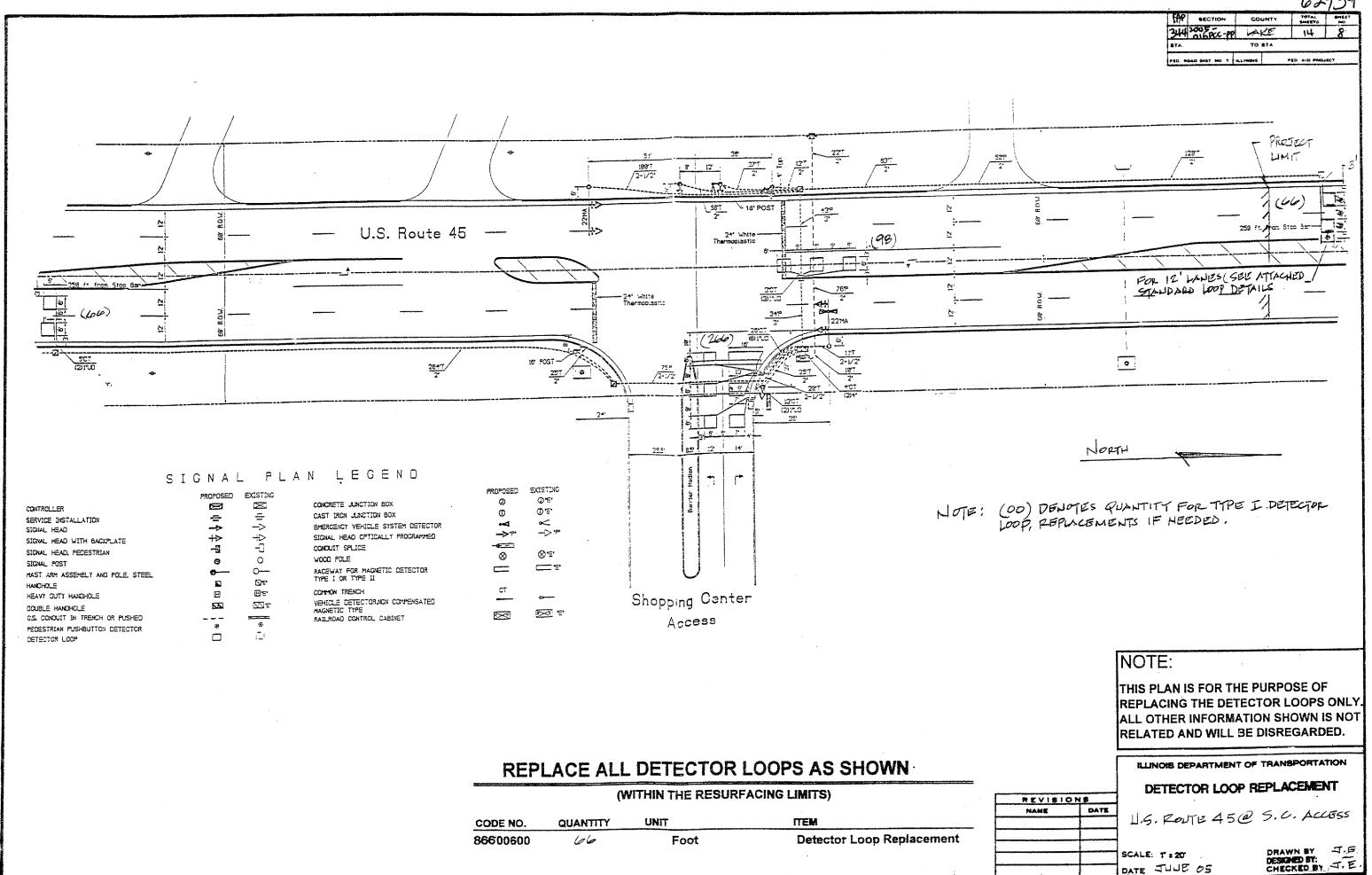
	Southbound	Northbound	TOTAL
Class B Patches, Type I 10"	0.0	0.0	0.0
Class B Patches, Type II 10"	305.3	294.7	600.0
Class B Patches, Type III 10"	192.0	80.0	272.0
Class B Patches, Type IV 10"	133.3	80.0	213.3
			1085.3

NOTES

- 1. The Engineer shall contract RICH ABREWY, Technician, at the Grayslake Maintenance Yard, (847)223-4004, regarding patching location.
- 2. The Engineer shall obtain approval from the District One Bureau of Maintenance for any proposed revision in the scheduled pavement patching locations.

ILLINOIS DEPARTMENT OF TRANSPORTATION

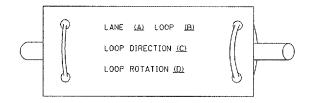
US ROUTE 45.
PAVEMENT PATCHING SCHEDULE



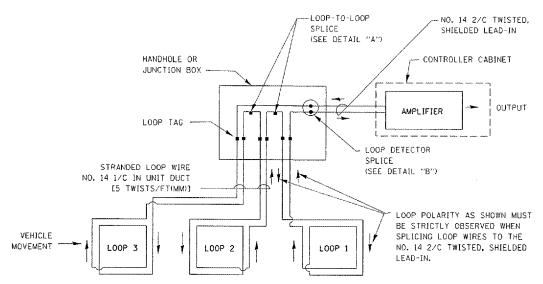
LOOP DETECTOR NOTES

- 1. EACH PAIR OF LOOP WIRES SHALL BE PLACED IN A SEPARATE UNIT DUCT FROM THE EDGE OF PAVEMENT TO THE HANDHOLE. SPACING BETWEEN THE HOLES DRILLED IN THE PAVEMENT SHALL NOT BE LESS THAN 6" (150 mm). UNIT DUCT SHALL BE INCLUDED IN THE COST OF THE LOOP WIRE.
- 2. THE NUMBER OF LOOP TURNS SHALL BE AS RECOMMENDED BY THE AMPLIFIER MANUFACTURER. ALL ADJACENT SIDES OF THE LOOPS SHALL BE INSTALLED IN SUCH A WAY THAT THE CURRENT FLOW IS IN THE SAME DIRECTION TO REINFORCE ITS MAGNETIC FIELDS FOR SMALL VEHICLE DETECTION.
- 3. EACH LOOP LEAD-IN SHALL BE IDENTIFIED AND PERMANENTLY TAGGED IN THE HANDHOLE. EACH LEAD-IN CABLE TAG SHALL INDICATE THE LOCATION OF THE LOOP, LOOP ROTATION (CLOCKWISE/COUNTERCLOCKWISE), LOOP LEAD-IN DIRECTION (IN OR OUT), LOOP CABLE NUMBER AND LOCATION IN CABINET, AND NUMBER OF TURNS IN THE DETECTOR LOOPS IN WATER PROOF INK AS INDICATED ON THE DISTRICT 1 STANDARD TRAFFIC SIGNAL DESIGN DETAIL. THE CONTRACTOR SHALL MARK LOOP LOCATIONS ON RECORD DRAWINGS AND PRESENT TO THE ENGINEER AFTER FINAL INSPECTION. LOOPS SHALL BE MARKED BY LANE AND LOOP NUMBER. SEE DETAIL BELOW.
- 4. ALL LOOP CABLE SHALL BE FASTENED WITH PLASTIC TIE WRAP TO THE HANDHOLE HOOKS.
- 5. IN ASPHALT PAVEMENT, LOOPS SHOULD BE PLACED IN THE BINDER AND DIVEHOLES MARKED AT THE CURB WITH A SAW-CUT. THE SAW-CUT SHALL BE CUT IN ACCORDANCE WITH LOCAL AND E.P.A. DUST CONTROL REQUIREMENTS. DETECTOR LOOP(S) SHALL NOT BE INSTALLED IN WET CONDITIONS AND THE SAW-CUTS MUST BE FREE OF DEBRIS AND RESIDUE SUCH AS DUST AND WATER WHICH IS TO BE ACHIEVED BY THE USE OF COMPRESSED AIR, WIRE BRUSHING AND HEAT DRYING ACCORDING TO SEALANT MANUFACTURER REQUIREMENTS. THE DETECTOR WIRE SHALL BE HELD IN PLACE BY THE USE OF FORM WEDGES. WEDGES SHALL BE SPACED NO MORE THAN 18" (450 mm) APART.
- 6, LOOP SPLICES SHALL BE SOLDERED USING A SOLDERING IRON. BLOW TORCHES OR OTHER DEVICES WHICH OXIDIZE COPPER CABLE SHALL NOT BE ALLOWED FOR SOLDERING OPERATIONS. SEE DETAIL BELOW RIGHT.
- 7. PREFORMED DETECTOR LOOPS SHALL BE USED, AS SHOWN ON THE PLANS, WHERE NEW CONCRETE PAVEMENT IS PROPOSED. THE INSTALLATION OF PREFORMED LOOPS SHALL BE IN ACCORDANCE WITH THE DISTRICT 1 SPECIFICATIONS OR AS DIRECTED BY THE ENGINEER.

LOOP LEAD-IN CABLE TAG

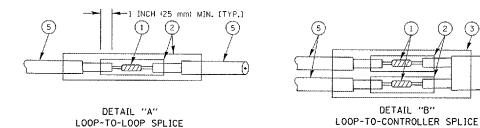


- A. LANE 1 IS THE LANE CLOSEST TO THE CENTERLINE OF THE ROADWAY
- B. LOOP #1 IS THE LOOP IN THE LANE CLOSEST TO THE INTERSECTION.
- C. LABEL LOOP CABLE "IN" OR LOOP CABLE "OUT".
- D. LABEL LOOP CABLE CLOCKWISE OR LOOP CABLE COUNTERCLOCKWISE.



DETECTOR LOOP WIRING SCHEMATIC

- LOOPS SHALL BE SPLICED IN SERIES.
- SAW-CUTS SHALL BE A MINIMUM WIDTH OF 5/16" (8 mm).
- SAW-CUT DEPTHS SHALL BE 3" (75 mm), IF IN CONCRETE, THE SAW-CUT DEPTH SHALL BE TO THE TOP OF THE REINFORCEMENT.
- LOOP CORNERS SHALL BE DRILLED WITH A 2" (50 mm) DIAMETER CORE.



LOOP DETECTOR SPLICE

- (1) WESTERN UNION SPLICE SOLDERED WITH ROSIN CORE FLUX. ALL EXPOSED SURFACES OF THE SOLDER SHALL BE SMOOTH.
- (2) WCSMW 30/100 HEAT SHRINK TUBE, MINIMUM LENGTH 3" (75 mm), UNDERWATER GRADE.
- (3) WCS 200/750 HEAT SHRINK TUBE, MINIMUM LENGHT 6" (150 mm), UNDERWATER GRADE,
- (4) NO. 14 2/C TWISTED, SHIELDED CABLE.
- (5) LOOP CONDUCTOR WITH FLEXIBLE PLASTIC TUBE.

ADD NOTE NO. 8 11/12/0		CADD	5/30/00
	REAU OF TRAFFIC 1-01-02	ADD NOTE NO. 8	11/12/01
BUREAU OF TRAFFIC 1-01-03		BUREAU OF TRAFFIC	1-01-02

ILLINOIS DEPARTMENT OF TRANSPORTATION

F.A. SECTION COUNTY 344 2005-016POC LAKE

TO STA.

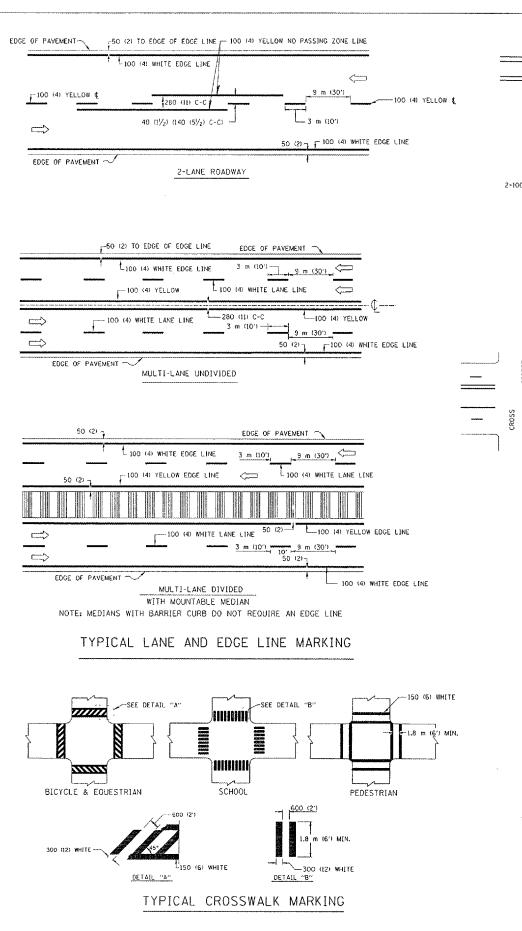
62939

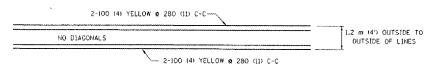
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT

DISTRICT ONE STANDARD TRAFFIC SIGNAL DESIGN DETAILS

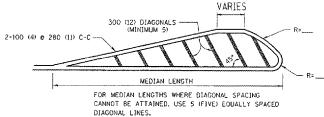
SCALE: VERT. NONE DATE 10/18/2002

CHECKED BY: DAD SHEET 1 OF 4



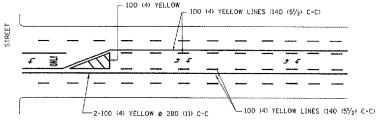


1.2 m (4') WIDE MEDIANS ONLY

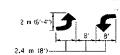


DIAGONAL LINE SPACING: 15-m (50') C-C (LESS THAN 50 km/h (30 MPH))
25 m (75') C-C (50 km/h (30 MPH) TO 70 km/h (45 MPH))
45 m (150') C-C (MORE THAN 70 km/h (45 MPH))

MEDIANS OVER 1.2 m (4') WIDE

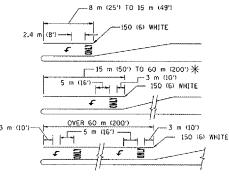


A MINIMUM OF TWO PAIRS OF TURN ARROWS SHALL BE USED, WHITE IN COLOR. ADDITIONAL PAIRS SHALL BE PLACED AT 60 m (200') TO 90 m (300') INTERVALS.



MEDIAN WITH TWO-WAY LEFT TURN LANE

TYPICAL PAINTED MEDIAN MARKING

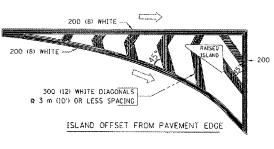


FULL SIZE LETTERS 2.4 m (8") AND ARROWS SHALL BE USED. \P AREA = 1.5 m² (15.6 SO. FT.) DNLY AREA = 1.9 m² (20.8 SO. FT.)

* 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".

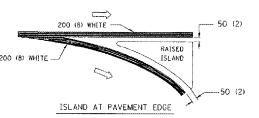
TYPICAL LEFT (OR RIGHT) TURN LANE

TYPICAL TURN LANE MARKING



SECTION COUNTY FOTAL SHEETS 314 2005-016 PC4 LAKE 14 10 FED. AID PROJECT

62939



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 (H) 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 & EQUESTRIAN) B. LONGITUDINAL BARS (SCHOOL)	2 @ 150 (6) 300 (12) @ 45° 300 (12) @ 90°	SOLID SOLID SOLID	WHITE WHITE WHITE	NOT LESS THAN 1.8 m (6') APART 600 (2') APART 500 (2') APART SEE TYPICAL CROSSWALK MARKING DETAILS.
STOP LINES	600 (24)	SOLID	WHITE	PLACE 1.2 m 44'1 IN ADVANCE OF AND PARALLEL TO (ROSSAUK, IF PRESENT. OTHERWISE, PLACE AT DESIRED STOPPING POINT, PARALLEL 10 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 OF: "R":0.33m2 (3.6 SO. 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) T0 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

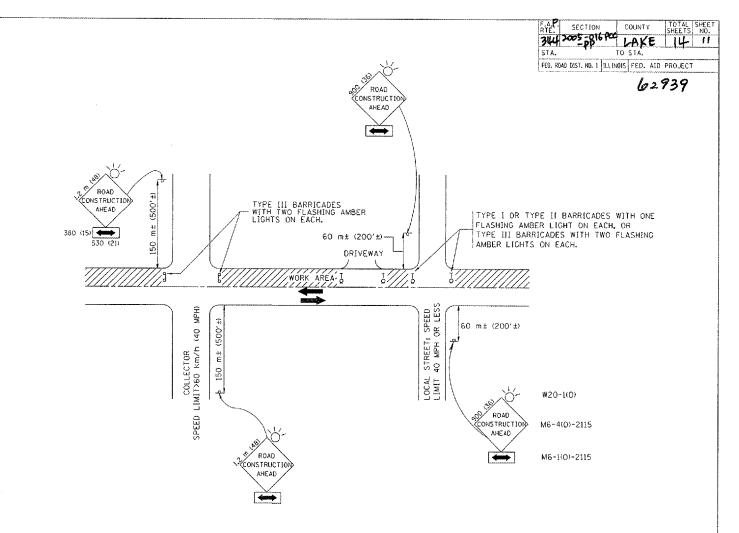
RAMMACHER 01-06-0

TYPICAL PAVEMENT MARKINGS

SCALE: NONE

DRAWN BY CADD DATE 10/18/2002 CHECKED BY

TC-13 REVISION DATE: 01/06/00



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 (36×36) 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:
- g) ONE ROAD CONSTRUCTION AHEAD SIGN 1.2 m x 1.2 m (48x48) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 150 m (500') IN ADVANCE OF THE MAIN ROUTE.
- 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 (M6-4).

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

USE APPLICABLE PORTIONS OF THE TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES (STD. 70150), 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
- 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.

Ť1	REVISIONS		
11.	DATE	NAME	
TRA	6/89	LHA	
INA	09/08/94	T. RAMMACHER	
	10/18/95	J. OBERLE	
~ 7.0	03/06/96	A. HOUSEH	
SIC	10/15/96	A. HOUSEH	
	01/06/00	T. RAMMACHER	
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SCALE:			
DATE 1			

LLINOIS DEPARTMENT OF TRANSPORTATION

AFFIC CONTROL AND PROTECTION FOR

> DE ROADS, INTERSECTIONS, AND DRIVEWAYS

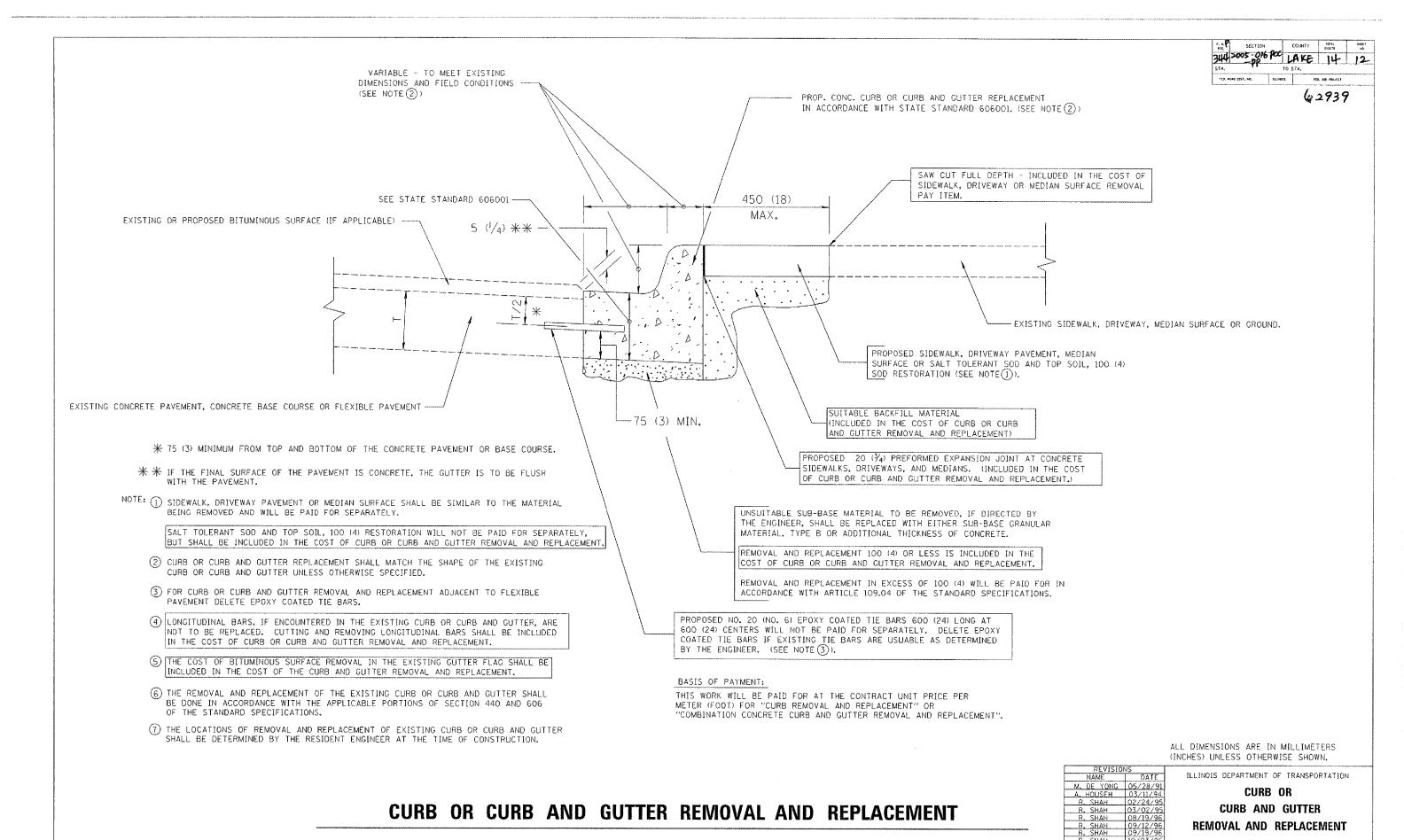
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DATE 10/18/2002

Friday October 18.2002 & 10:20:23 AW c:\projects\distatd\tal0.dgn LV=35,63 USER:

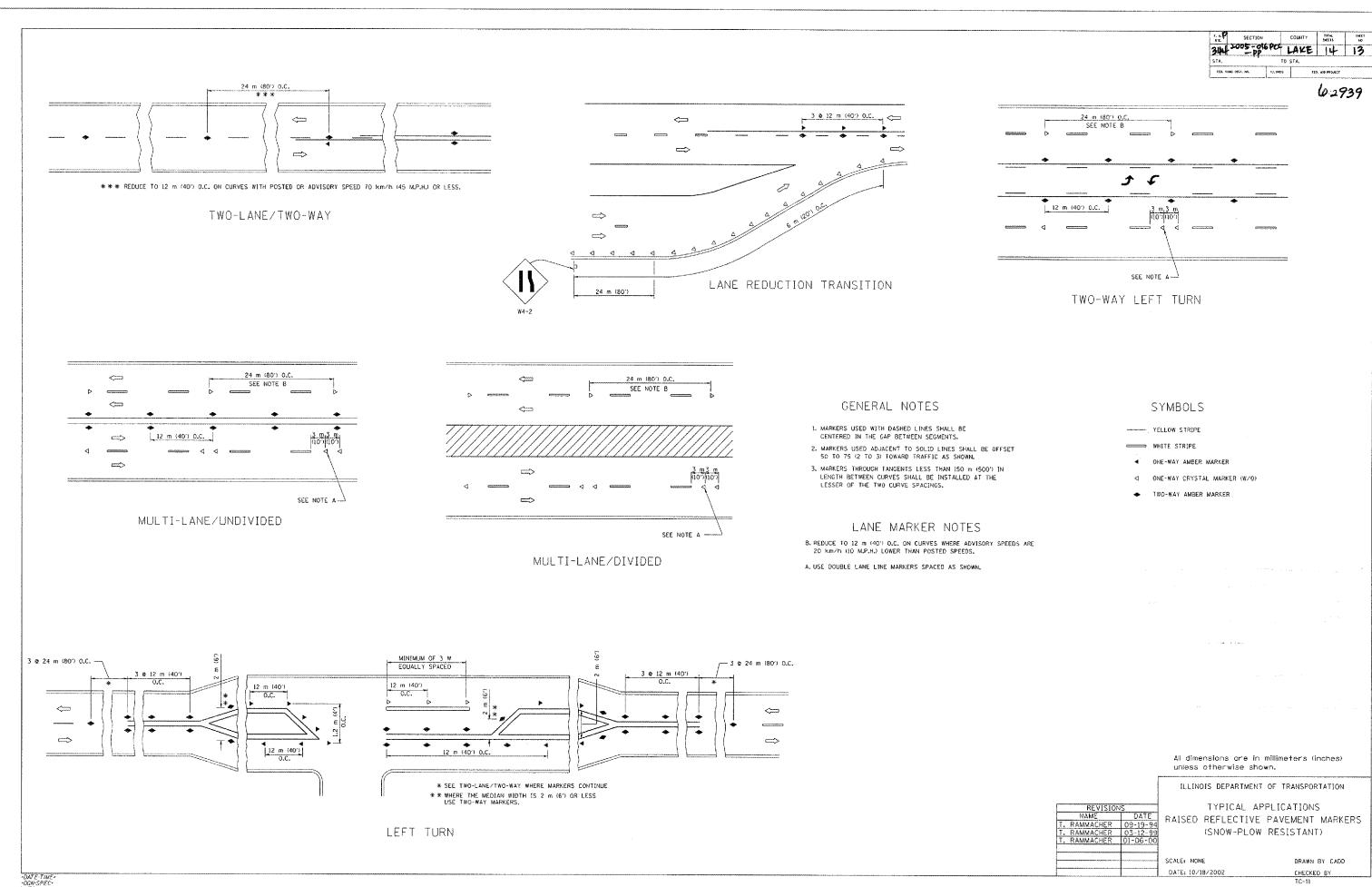
REVISION DATE: 01/06/00



IO/18/2002 c\projects\diststd\bd24.dgn VI-6024 03/21/97 SCALE: NONE 01/22/01 DATE 10/18/2002

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

REVISION DATE: 12/06/88



REVISION DATE: 01/06/00

