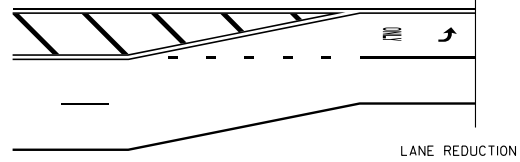
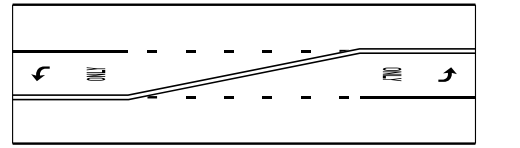


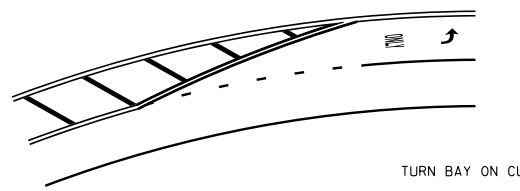
TYPICAL MINI-SKIP PAVEMENT MARKINGS



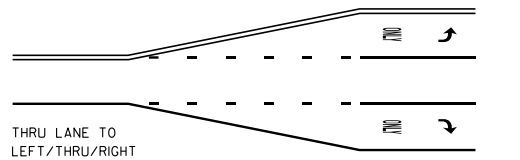
LANE REDUCTION



DOUBLE TAPER



TURN BAY ON CURVE

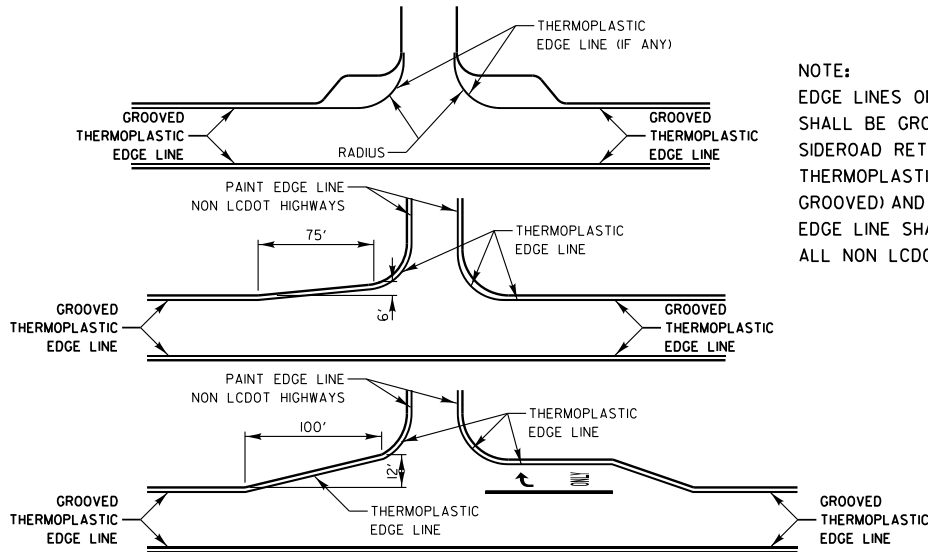


THRU LANE TO LEFT/THRU/RIGHT

MINI-SKIPS ARE 2 FEET WHITE LINE WITH 6 FEET SPACING. THE MINI-SKIP IS THE SAME WIDTH AS THE PAVEMENT MARKING LINE, IT EXTENDS.

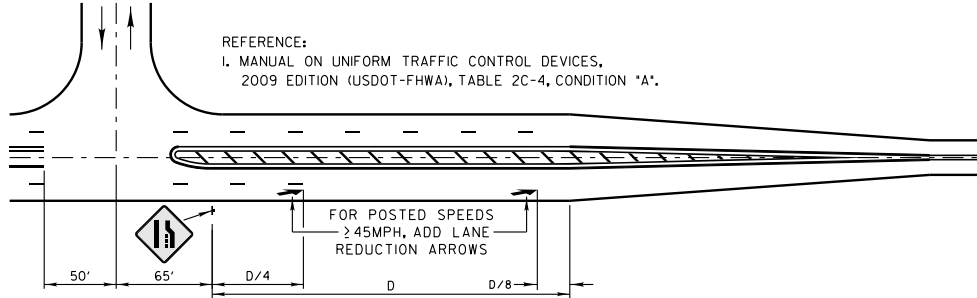
TYPICAL PAVEMENT MARKINGS

EDGE LINE RADII AT SIDE STREETS



NOTE:  
EDGE LINES ON LCDOT HIGHWAYS SHALL BE GROOVED THERMOPLASTIC. SIDEROAD RETURNS SHALL BE A THERMOPLASTIC EDGE LINE (NOT GROOVED) AND THE SIDEROAD EDGE LINE SHALL BE PAINT ON ALL NON LCDOT HIGHWAYS.

LANE REDUCTION ARROW PLACEMENT

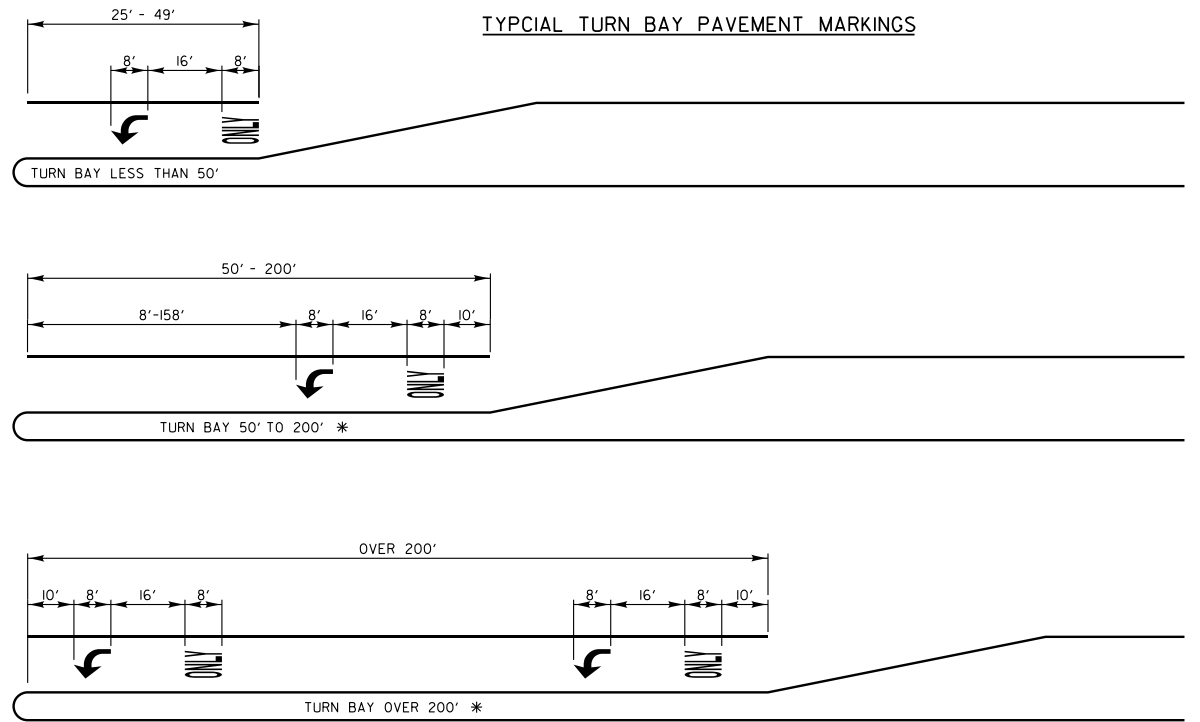


REFERENCE:  
1. MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES,  
2009 EDITION (USDOT-FHWA), TABLE 2C-4, CONDITION 'A'.

DESIGN SPEED MPH	D (FEET)
<45	VARIABLE
45	775' [1]
50	885' [1]
55	990' [1]

FOR POSTED SPEEDS >45MPH, ADD LANE REDUCTION ARROWS

TYPICAL TURN BAY PAVEMENT MARKINGS



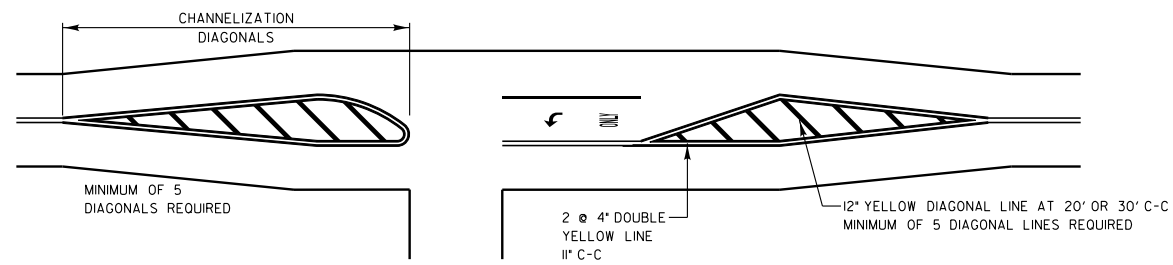
\* AT INTERSECTIONS WITH VIDEO DETECTION, THE ARROW AND ONLY PAVEMENT MARKINGS SHALL BE A MINIMUM OF 30' BEHIND THE STOP BAR.

AREA = 15.6 SQ. FT.

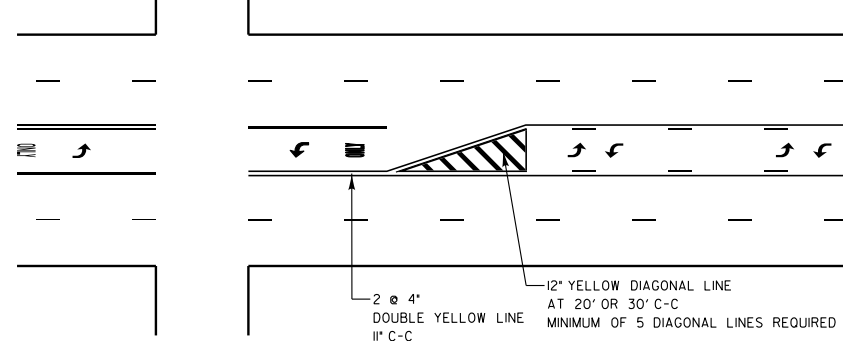
ONLY AREA = 20.8 SQ. FT.

FULL SIZE LETTERS (8") AND ARROWS SHALL BE USED. TURN LANES IN EXCESS OF 400' IN LENGTH MAY HAVE AN ADDITIONAL SET OF ARROW W/ 'ONLY' INSTALLED MIDWAY BETWEEN THE OTHER TWO SETS OF ARROW W/ 'ONLY'.

TWO LANE ROAD



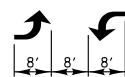
TWO-WAY LEFT TO LEFT TURN BAY



TYPICAL DIAGONAL SPACING

SPEED LIMIT RANGE	DIAGONAL SPACING	
	CONTINUOUS	INTERSECTION CHANNELIZATION
30-45 MPH	75 FT.	20 FT.
OVER 45 MPH	150 FT.	30 FT.

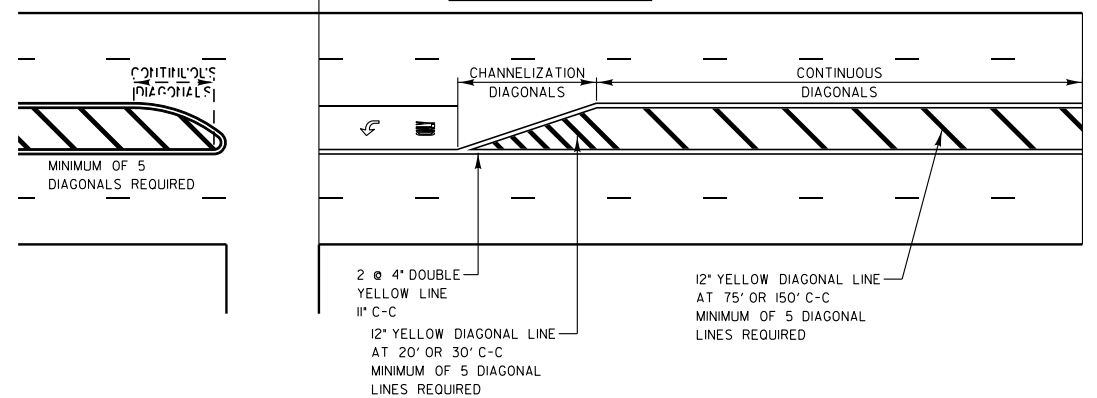
DUAL LEFT TURN ARROWS



31.2 SQ. FT. MINIMUM OF 2 SETS REQUIRED

A MINIMUM OF TWO PAIRS OF DUAL LEFT TURN ARROWS SHALL BE USED. THE DUAL LEFT TURN ARROWS SHALL BE WHITE IN COLOR. THE INTERVAL BETWEEN SETS OF DUAL LEFT TURN ARROWS SHOULD BE 200' AND 300'.

3 OR 5 LANE ROAD



REVISIONS	DATE
SEPARATED RAILROAD SHEET	06/02/08
ADDED LANE REDUCTION ARROWS	07/11/12
RAISED TO RECESSED MARKERS	12/2/13
REMOVE STATION NUMBERS	5/30/14
THERMO EDGELINES at RETURNS	11/18/16
ALL PM TO GROOVED THERMO	1/26/17
REVISED EDGELINES at RETURNS	4/10/17
REVISED STOB BAR/DBL YELLOW	8/31/17



APPROVED BY: A. KHAWAJA  
DATE: APRIL 1, 2007

TYPICAL PAVEMENT MARKINGS FOR COUNTY HIGHWAYS

SHEET 1 OF 2

LC7800

REVISIONS / REMARKS				
NO.	DESCRIPTION	DATE	BY	SURVEYOR/DSG NR/LIAISON

FILE NAME: C:\Users\hdmrc\Desktop\LC7800 TYPICAL PAVEMENT MARKINGS FOR COUNTY HIGHWAYS.dgn



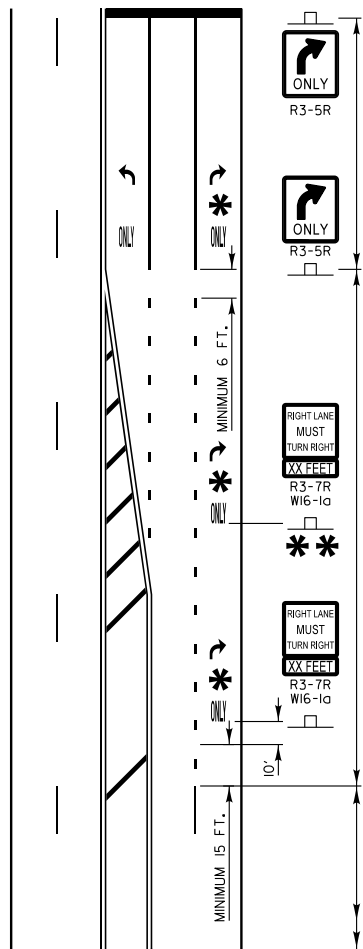
PROJECT NAME

LAKE COUNTY STANDARDS & DETAILS

ROUTE	SECTION	SECTION NUMBER	SHEET	SHEETS
CHXX	XXX	XX-XXXXX-XX-XX	XXX	XXX

# TYPICAL PAVEMENT MARKINGS AND RECESSED PAVEMENT MARKERS

## THRU LANE TO TURN LANE CONVERSION



TURN LANE  
6' WHITE LINE  
(ADDITIONAL PAVEMENT MARKINGS AS SHOWN  
ON SHEET ONE OF THE L.C.D.O.T TYPICAL  
PAVEMENT MARKINGS DETAIL SHEETS)

TRANSITION ZONE  
6' WHITE 3'/12' SKIP DASH  
LANE LINE

THRU LANE  
4' WHITE 10'/30' SKIP DASH  
LANE LINE

### MINIMUM TRANSITION ZONE LENGTH

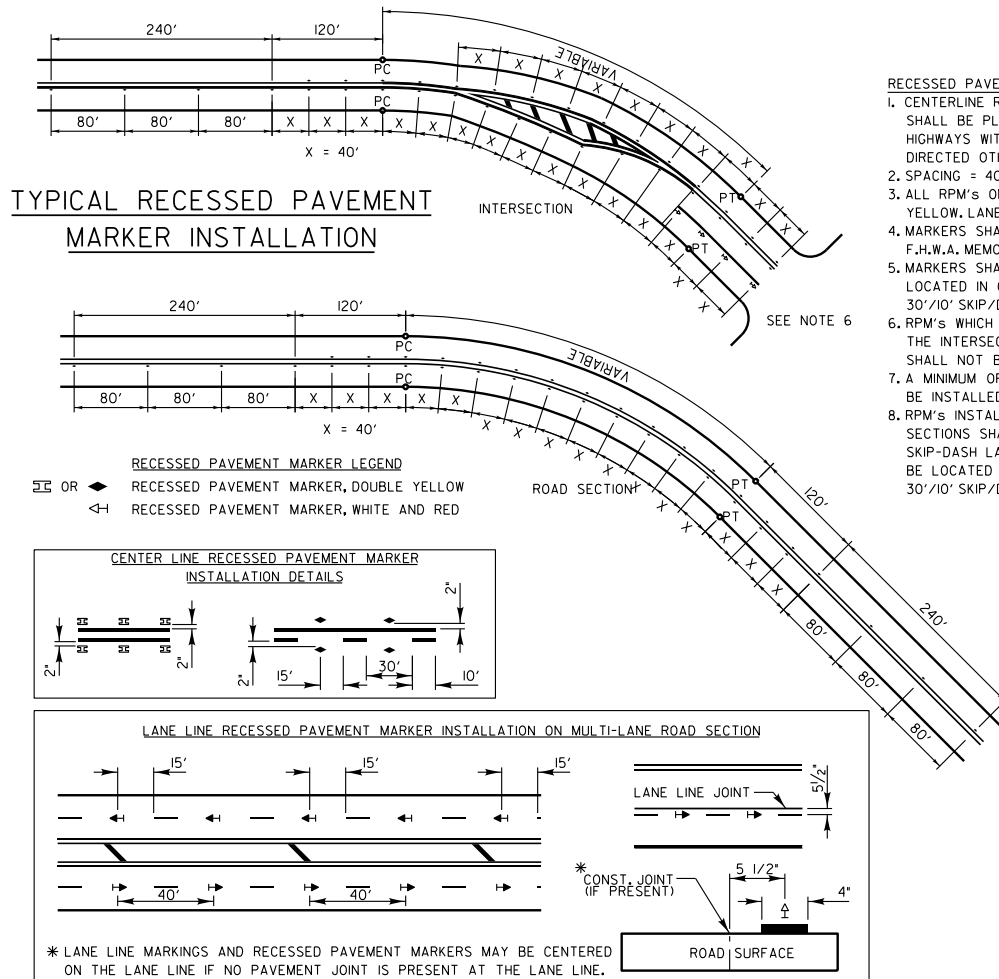
POSTED SPEED	LENGTH
25 M.P.H.	255 FT
30 M.P.H.	330 FT
35 M.P.H.	405 FT
40 M.P.H.	480 FT
45 M.P.H.	555 FT
50 M.P.H.	630 FT
55 M.P.H.	705 FT

### \* LOCATION OF PAV'T MARKINGS

(MEASURED FROM BEGINNING OF TRANSITION ZONE)

POSTED SPEED	LOCATION OF PAV'T MARKINGS
25 M.P.H.	10 FT, 260 FT
30 M.P.H.	10 FT, 170 FT, 340 FT
35 M.P.H.	10 FT, 210 FT, 410 FT
40 M.P.H.	10 FT, 170 FT, 330 FT, 490 FT
45 M.P.H.	10 FT, 190 FT, 370 FT, 560 FT
50 M.P.H.	10 FT, 170 FT, 330 FT, 490 FT, 640 FT
55 M.P.H.	10 FT, 180 FT, 350 FT, 520 FT, 710 FT

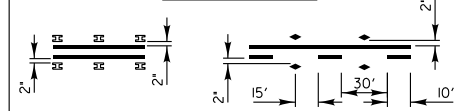
\*\* FOR POSTED SPEEDS 40 M.P.H. OR GREATER  
A SECOND R3-7/W16-1a SIGN INSTALLATION  
SHALL BE LOCATED HALFWAY BETWEEN THE  
BEGINNING OF THE TRANSITION ZONE AND THE  
BEGINNING OF THE TURN LANE



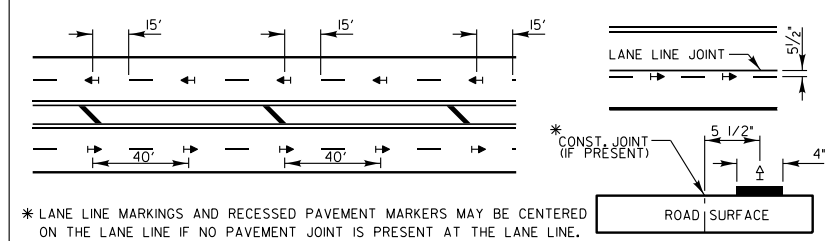
## TYPICAL RECESSED PAVEMENT MARKER INSTALLATION

RECESSED PAVEMENT MARKER LEGEND  
 X OR ◊ RECESSED PAVEMENT MARKER, DOUBLE YELLOW  
 ◊ RECESSED PAVEMENT MARKER, WHITE AND RED

### CENTER LINE RECESSED PAVEMENT MARKER INSTALLATION DETAILS

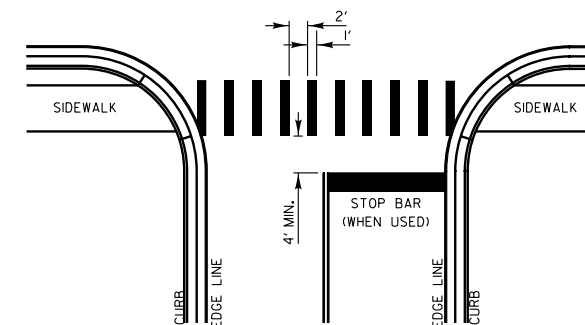


### LANE LINE RECESSED PAVEMENT MARKER INSTALLATION ON MULTI-LANE ROAD SECTION



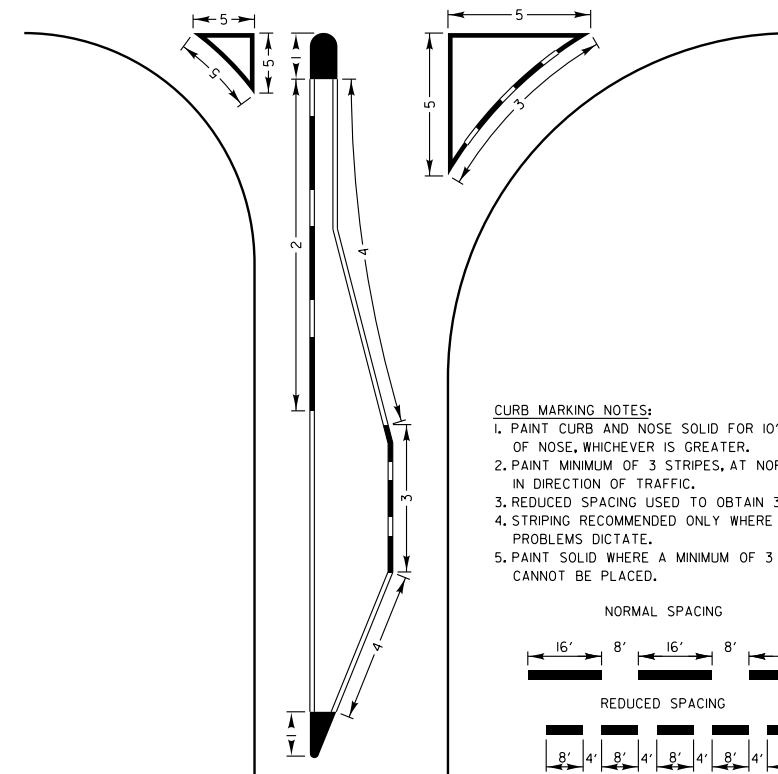
- RECESSED PAVEMENT MARKER NOTES:
- CENTERLINE RECESSED PAVEMENT MARKERS (RPM'S) SHALL BE PLACED ON ALL TWO AND THREE LANE HIGHWAYS WITH CURVES OVER 3 1/2 DEGREES, UNLESS DIRECTED OTHERWISE BY THE ENGINEER.
  - SPACING = 40' FOR CENTERLINE MARKERS.
  - ALL RPM'S ON CENTERLINE ARE 2-WAY YELLOW. LANE LINE MARKERS ARE WHITE/RED.
  - MARKERS SHALL BE INSTALLED ACCORDING TO F.H.W.A. MEMORANDUM H10-21.
  - MARKERS SHALL BE FIELD ADJUSTED TO BE LOCATED IN CENTER OF THE 30' GAP OF A 30'/10' SKIP/DASH CENTERLINE.
  - RPM'S WHICH ARE TO BE LOCATED WITHIN THE INTERSECTION OF A CROSS STREET, SHALL NOT BE INSTALLED.
  - A MINIMUM OF 4 WHITE/RED MARKERS SHALL BE INSTALLED ALONG THE TURN LANE LINE.
  - RPM'S INSTALLED ON MULTI-LANE ROAD SECTIONS SHALL BE INSTALLED ON THE WHITE SKIP-DASH LANE LINE ONLY. THESE RPM'S SHALL BE LOCATED IN CENTER OF THE 30' GAP OF A 30'/10' SKIP/DASH LANE LINE.

## CROSSWALKS



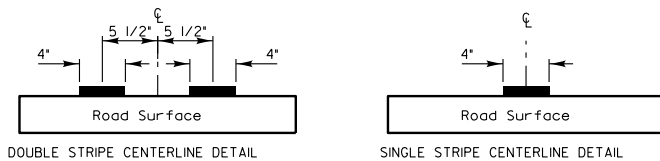
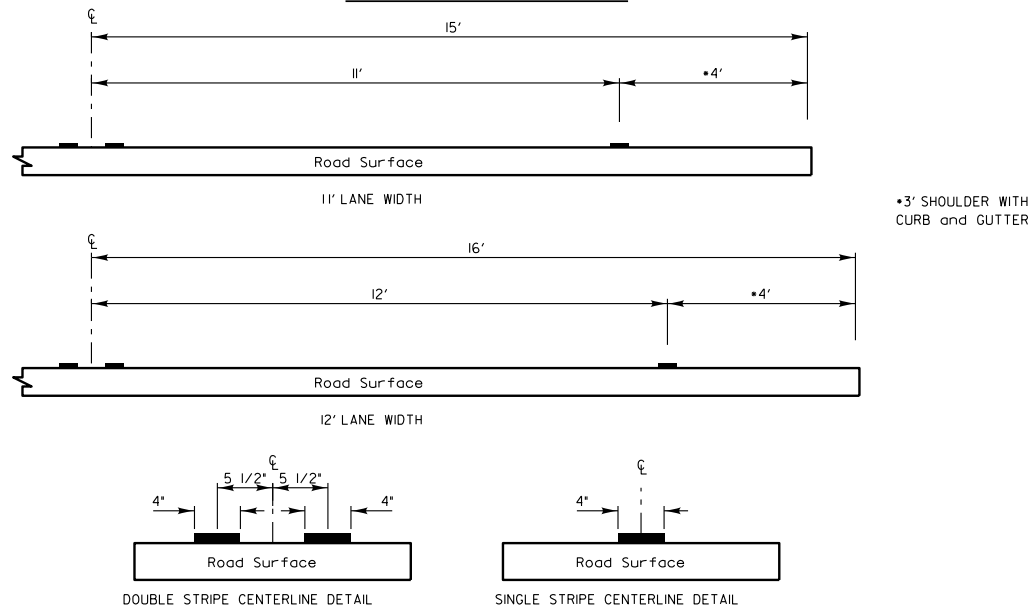
- CROSSWALK NOTES:
- THE WIDTH OF THE CROSSWALK IS GENERALLY 6' EXCEPT AT SCHOOL CROSSINGS AND MULTIUSE PATH CROSSINGS, WHICH CAN BE 8' OR 10' WIDE.
  - THE STOP BAR SHALL BE INSTALLED A MINIMUM OF 4' IN ADVANCE OF THE CROSSWALK.

## CURB MARKING



- CURB MARKING NOTES:
- PAINT CURB AND NOSE SOLID FOR 10' OR RADIUS OF NOSE, WHICHEVER IS GREATER.
  - PAINT MINIMUM OF 3 STRIPES, AT NORMAL SPACING, IN DIRECTION OF TRAFFIC.
  - REDUCED SPACING USED TO OBTAIN 3 STRIPE MINIMUM.
  - STRIPING RECOMMENDED ONLY WHERE OPERATIONAL PROBLEMS DICTATE.
  - PAINT SOLID WHERE A MINIMUM OF 3 STRIPES CANNOT BE PLACED.

## PAVEMENT CROSS SECTION SHOWING TYPICAL PAVEMENT MARKINGS (2-LANE ROADWAY)



DOUBLE STRIPE CENTERLINE DETAIL  
 SINGLE STRIPE CENTERLINE DETAIL  
 NOTE:  
 CENTERLINE MARKINGS ARE 4" LINES AT 11" CENTERS.

PAVEMENT MARKING GUIDELINES				
TYPE OF MARKING	WIDTH OF LINE	PATTERN	COLOR	SPACING / REMARKS
CENTERLINE OF 2 LANE PAVEMENT	4 IN.	SKIP-DASH	YELLOW	10 FT. LINE WITH 30 FT. SPACE
NO PASSING ZONE LINES: FOR ONE DIRECTION FOR BOTH DIRECTIONS	4 IN. 2 @ 4 IN.	SOLID	YELLOW	5 1/2 IN. C-C FROM SKIP-DASH CENTERLINE
CENTERLINE ON MULTI-LANE UNDIVIDED LANE LINES	2 @ 4 IN.	SOLID	YELLOW	11 IN. C-C
DOTTED LINES (EXTENSIONS OF CENTER, LANE OR TURN LANE MARKINGS)	SAME AS LINE BEING EXTENDED	SKIP-DASH	SAME AS LINE BEING EXTENDED	2 FT. LINE WITH 6 FT. SPACE
EDGE LINES	5 IN. WHITE 4 IN. YELLOW	SOLID	WHITE - RIGHT YELLOW - LEFT	OUTLINE RAISED MEDIANS IN YELLOW
TURN LANE MARKINGS	6 IN. LINE FULL SIZE LETTERS AND SYMBOLS (8 FT.)	SOLID	WHITE	TURN ARROW 15.6 SO. FT. STRAIGHT ARROW 11.5 SO. FT. ONLY 20.8 SO. FT. COMB. ARROW 26.0 SO. FT.
TWO WAY LEFT TURN MARKING	2 @ 4 IN. EACH DIRECTION	SKIP-DASH AND SOLID	YELLOW	10 FT. LINE WITH 30 FT. SPACE FOR SKIP-DASH 5 1/2 IN. C-C BETWEEN SKIP-DASH LINE AND SOLID LINE
CROSSWALK	12 IN. @ 90°	SOLID	WHITE	12 IN. LONGITUDINAL BAR WITH 24 IN. SPACE 6 FT. TO 12 FT. WIDE SEE TYPICAL CROSSWALK MARKING DETAIL
STOP BARS	24 IN.	SOLID	WHITE	PLACE 4 FT. IN ADVANCE OF AND PARALLEL TO CROSSWALK, IF PRESENT, OTHERWISE PLACE AT DESIRED STOPPING POINT.
PAINTED MEDIANS	2 @ 4 IN. & 11 IN. C-C 12 IN. DIAGONALS @ 45° NO DIAGONALS USED FOR 4 FT. WIDE MEDIAN	SOLID	YELLOW: 2-WAY TRAFFIC WHITE: 1-WAY TRAFFIC	11 IN. C-C FOR THE DOUBLE LINE SEE TYPICAL PAINTED MEDIAN MARKING DETAIL MINIMUM OF 5 DIAGONALS
GORE MARKING AND CHANNELIZING LINES	8 IN. WITH 12 IN. DIAGONALS @ 45°	SOLID	WHITE	DIAGONALS 15 FT. C-C (LESS THAN 30 M.P.H.) 20 FT. C-C (30 TO 45 M.P.H.) 30 FT. C-C (OVER 45 M.P.H.) MINIMUM OF 5 DIAGONALS
R.R. CROSSING	24 IN. TRANSVERSE LINES RR IS 6 FT. LETTER 16 IN. LINE FOR 'X'	SOLID	WHITE	SEE I.D.O.T. STD. 780001 SO. FT. AREA OF: "R" = 3.6 SO. FT. / "R" "X" = 54.0 SO. FT.
SHOULDER DIAGONALS (FOR PAVED SHOULDER ≥ 6 FT.)	12 IN. @ 45°	SOLID	WHITE - RIGHT YELLOW - LEFT	50 FT. C-C (LESS THAN 30 M.P.H.) 75 FT. C-C (30 TO 45 M.P.H.) 150 FT. C-C (OVER 45 M.P.H.) MINIMUM OF 5 DIAGONALS

ALL PAVEMENT MARKINGS TO BE GROOVED THERMOPLASTIC, UNLESS OTHERWISE SPECIFIED BY THE ENGINEER  
 FOR FURTHER DETAILS ON PAVEMENT MARKING REFER TO PART III 'MARKINGS' IN THE 'ILLINOIS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES', THE 'STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION', AND THE LATEST I.D.O.T. HIGHWAY STANDARD 780001.

REVISIONS	DATE	LakeCounty Division of Transportation	APPROVED BY: A. KHAWAJA DATE: APRIL 1, 2007
SEPARATED RAILROAD SHEET	06/02/08		
REVISED RPM DETAILS	07/1/12		
RAISED TO RECESSED MARKERS	12/2/13		
REMOVE STATION NUMBERS	5/30/14		
THERMO EDGELINES @ RETURNS	11/18/16		
ALL PM TO GROOVED THERMO	1/26/17		
REVISED EDGELINES @ RETURNS	4/10/17		
REVISED STOP BAR/DBL YELLOW	8/31/17		

## TYPICAL PAVEMENT MARKINGS FOR COUNTY HIGHWAYS

SHEET 2 OF 2

NO.	DESCRIPTION	DATE	BY	SURVEYOR:	PLOTTED BY:	PROJECT NAME	ROUTE	SECTION	SECTION NUMBER	SHEET	SHEETS
					hdrmc 9/5/2017	LAKE COUNTY STANDARDS & DETAILS	CHXX	XXX	XX-XXXXX-XX-XX	XXX	XXX