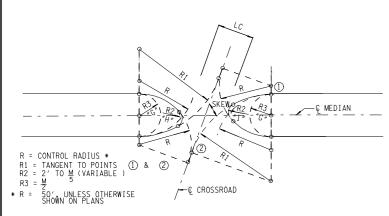


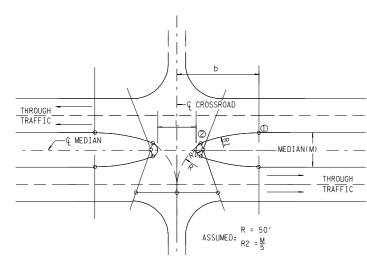
MINIMUM DESIGN OF MEDIAN FOR PERPENDICULAR CROSSROADS

NOTE: SEMICIRCULAR ENDS ARE NOT DESIRABLE FOR MEDIANS GREATER THAN 10' IN WIDTH.



MINIMUM DESIGN OF MEDIAN OPENINGS FOR SKEWED CROSSROADS TYPES "G ", "H "& "I"

NOTE: ASYMMETRIC BULLET NOSE DESIGN, TYPE "I" IS PREFERABLE FOR SKEWED CROSSROADS.



MINIMUM DESIGN OF MEDIAN OPENINGS TYPICAL BULLET NOSE END TYPES "L", "M" & "N"

NOTE: RADIUS RI MAY VARY FROM 80' TO 400' OR MORE, DEPENDING ON THE TURNING SPEED DESIRED.
THE TABULATED VALUES FOR TYPES "L", "M" & "N" OPENINGS ARE FOR SAFE TURNING SPEEDS
OF 20. 25 AND 30 MPH. RESPECTIVELY.

NOTE: AT SKEWED INTERSECTIONS, THE ABOVE DESIGN CAN BE APPLIED TO EACH INTERSECTION INDIVIDUALLY.
ADJUSTMENTS IN R1 & R2 FROM THE VALUES SHOWN ARE REQUIRED.

MEDIAN	L= MI	NIMUM LENG	GTH OF MED	DIAN OPENI	NG (IN	FEET)	
WIDTH		VEHICLE DIUS = 40'	SU DESIGN VEHICLE CONTROL RADIUS = 50'			GN VEHICLE	
IN FEET	SEMICIRCULAR TYPE "A"	BULLET NOSE TYPE "B"	SEMICIRCULAR TYPE "C"	BULLET NOSE TYPE "D"	SEMICIRCULAR TYPE "E"	BULLET NOSE TYPE "F"	
4	76	76	96	96	146	122	
6	74	60	94	76	144	115	
8	72	53	92	68	142	110	
10	70	47	90	62	140	105	
12	68	68 43		58	138	100	
14	66	66 40 MIN		53	136	96	
16	64 40 MIN		84	50	134	92	
20	60 40 MIN		80	44	130	85	
24	56	40 MIN	76	40 MIN	126	78	
28	52	40 MIN	72	40 MIN	122	73	
32	48	40 MIN	68	40 MIN	118	67	
36	44	40 MIN	64	40 MIN	114	62	
40	40 MIN	40 MIN	60	40 MIN	100	57	
50	40 MIN	40 MIN	50	40 MIN	95	52	
60	40 MIN	40 MIN	40 MIN	40 MIN	90	40 MIN	
70	40 MIN	40 MIN	40 MIN	40 MIN	80	40 MIN	
80	40 MIN	40 MIN	40 MIN	40 MIN	70	40 MIN	
100	40 MIN	40 MIN	40 MIN	40 MIN	50	40 MIN	
110	40 MIN	40 MIN	40 MIN	40 MIN	40 MIN	40 MIN	

TABLE IS TAKEN FROM FIGURE IX-16 (PAGE 804) AND FIGURES IX-17 & IX-18 (PAGE 807).

LC			F MEDIAN OPEN		ET)
	BA	SED ON CONTR	OL RADIUS OF	50 FEET	
SKEW	MEDIAN WIDTH	LC = LENGTH (R1 FOR		
	IN FEET	SEMICIRCULAR TYPE "G"	BULLET NOSE SYMMETRICAL TYPE "H"	ASYMMETRICAL TYPE "I"	IN FEET
	10	90	62	-	-
1	20	80	44	-	-
90	30	70	40 MIN	-	-
]] (40	60	40 MIN	-	-
1	50	50	40 MIN	-	-
	60	40	40 MIN	-	-
	10	106	80	77	70
1	20	94	58	54	68
0.0	30	82	45	40 MIN	65
80	40	71	40 MIN	40 MIN	63
1	50	60	40 MIN	40 MIN	61
	60	47	40 MIN	40 MIN	59
	10	121	97	90	97
1	20	107	74	65	92
70	30	94	59	48	86
10	40	81	48	40 MIN	82
1	50	68	40 MIN	40 MIN	76
l	60	54	40 MIN	40 MIN	71
	10	135	114	105	140
	20	120	91	77	130
60	30	104	75	58	120
00	40	90	62	42	110
	50	76	51	40 MIN	100
	60	60	40	40 MIN	90
	10	148	127	118	210
	20	131	106	90	193
50	30	115	90	68	174
1 20	40	98	77	51	156
	50	81	64	40 MIN	139
	60	64	51	40 MIN	121

TABLE IS TAKEN FROM TABLE IX-19 (PAGE 814).

NOTE: IN GENERAL MEDIAN OPENINGS LONGER THAN 80 OR 100 FEET SHOULD BE AVOIDED, REGARDLESS OF SKEW. THIS MAY CALL FOR SPECIAL CHANNELIZATION, LEFT TURN LANES, OR ADJUSTMENT TO REDUCE THE CROSSROAD SKEW, ALL OF WHICH RESULT IN ABOVE MINIMUM DESIGNS.

MEDIAN	DIMENSIONS (IN FEET)							
WIDTH	R1=	90′	R1=	150′	R1=230'			
IN FEET	L	Ь	L	Ь	L	Ь		
IN FEET	TYPE	"L "	TYPE	"M "	TYPE	"N "		
20	58	65	66	78	71	90		
30	48	68	57	85	63	101		
40	40	71	50	90	57	109		
50	-	-	44	95	51	115		
60	-	-	-	-	46	122		
70	-	-	-	-	41	128		

THIS DETAIL AND TABLE ARE TAKEN FROM FIGURE IX-62 (PAGE 816).

LANE TO INNER LANE		30	61	63	63	71	71		
INNER LANE TO OUTER LANE		18	49	51	51	59	59		
INNER LANE TO SHOULDER		8	39	41	41	49	49		
TABLE IS	TAKEN FROM FIGURE IX-67 (PAGE 825).								
NOTE: WHERE OCCASIONAL U-TURNS ARE MADE IN EITHER DIRECTION, A SYMMETRICAL OPENING SHOULD BE USED AND THE LENGTH OF THE OPENING SHOULD BE FOR THE DESIGN VEHICLE USED. WHEN FREQUENT U-TURNS IN BOTH DIRECTIONS ARE ANTICIPATED, INCREASE THE LENGTH OF THE OPENING OR PROVIDE SEPARATE ONE WAY OPENINGS.									

MINIMUM DESIGNS FOR U-TURNS - TYPE "J"

MANEUVER

TYPE

M - MINIMUM WIDTH OF MEDIAN (IN FEET) FOR DESIGN VEHICLE

LENGTH OF DESIGN VEHICLE

40'

BUS WB-50 WB-60

55′

65′

SU

30′

WB-40

50′

19'

SEPARATE U-TURN MEDIAN OPENINGS MAY FIT AT THE FOLLOWING LOCATIONS

- ① BEYOND INTERSECTIONS TO ACCOMMODATE MINOR TURNING MOVEMENTS NOT OTHERWISE PROVIDED IN THE INTERSECTION OR INTERCHANGE AREA.
- 2 JUST AHEAD OF AN INTERSECTION TO ACCOMODATE U-TURN MOVEMENTS THAT WOULD INTERFERE WITH THROUGH AND OTHER TURNING MOVEMENTS AT THE INTERSECTION.
- 3 OCCURRING IN CONJUNCTION WITH MINOR CROSSROADS WHERE TRAFFIC IS NOT PERMITTED TO CROSS THE MAJOR HIGHWAY BUT INSTEAD IS REQUIRED TO TURN RIGHT, ENTER THE THROUGH TRAFFIC STREAM, WEAVE TO THE LEFT, U-TURN, THEN RETURN.
- OCCURING WHERE REGULARLY SPACED OPENINGS FACILITATE MAINTENANCE OPERATIONS, POLICING, REPAIR SERVICE OF STALLED VEHICLES, OR OTHER HIGHWAY-RELATED ACTIVITIES.
- (5) OCCURRING ON HIGHWAYS WITHOUT ACCESS CONTROL WHERE MEDIAN OPENINGS AT OPTIMUM SPACING ARE PROVIDED TO SERVE EXISTING FRONTAGE DEVELOPMENTS AND AT THE SAME TIME MINIMIZE PRESSURE FOR FUTURE MEDIAN OPENINGS.

GENERAL NOTES

- (A) FOR SPECIFIC CONDIITIONS NOT COVERED ON THIS SHEET, REFERENCE SHOULD BE MADE TO "A POLICY ON GEOMETRIC DESIGN OF HIGHWAYS AND STREETS ", 1990.
- (B) PAGE NUMBERS REFERRED TO ON THIS DRAWING ARE FROM THE ABOVE REFERENCE.

DESIGN CONTROLS FOR MINIMUM MEDIAN OPENINGS								
DESIGN ACCOM	CONTROL RADIUS (FT.)							
PREDOMI NANT	PREDOMINANT OCCASIONAL							
Р	SU	40						
SU	50							
WB-40	75							

REV. 7-1-72: CHANGED DEPARTMENT NAME. REV. 7-1-76: CHANGED DWG. NO. FROM

REV. 3-15-76: DELETED REFERENCE TO OLD DWG.

CHART AND NOTES. CHANGED CHARTS FOR DESIGN CONTROL FOR MINIMUM MEDIAN OPENINGS AND

FOR DESIGN VEHICLE DIMENSIONS. ELIMINATED

TYPICAL MEDIAN OPENING DETAIL AND TYPE "K" OPENING. ADDED TYPES "L", "M" & "N" OPENINGS.

REV. 10-26-93: REDREW AND REORGANIZED SHEET.

CHANGED DWG. NO. FROM RP-M-1 TO RP-DHO-1. UPDATED TO CONCUR WITH AASHTO PUBLICATION

" A POLICY ON GEOMETRIC DESIGN FOR HIGHWAYS

REV. 10-17-86: CHANGED C-43 TO WB-40 AND

MEDIAN OPENING LENGTH. CHANGED U-TURN

M-0-1 (68) TO RP-M-1.

NO., SUBSTITUTED NEW DWG. NO.

AND STREETS " - 1990 EDITION.

TABLE IS TAKEN FROM TABLE IX-20 (PAGE 815).

			DESIG	N VEHIC	CLE DIM	ENSIONS	S (IN	FEET)			
DESIGN VEHICLE		OVERALL			OVERHANG		WHEELBASES				т
TYPE	SYMBOL	HEIGHT	WIDTH	LENGTH	FRONT	REAR	WB1	WB2	WB3)	l
PASSENGER CAR	Р	4.25	7	19	3	5	11	-	-	-	-
SINGLE UNIT TRUCK	SU	13.5	8.5	30	4	6	20	-	-	-	-
INTERMEDIATE SEMITRAILER COMBINATION	WB-40	13.5	8.5	50	4	6	13	27	-	-	-
LARGE SEMITRAILER COMBINATION	WB-50	13.5	8.5	55	3	2	20	30	-	-	-
DOUBLE SEMITRAILER	WB-60	13.5	8.5	65	2	3	9.7	20	20.9	4	5.4
INTERSTATE SEMITRAILER	WB-62	13.5	8.5	69	3	3	20	40-42	-	-	-
INTERSTATE SEMITRAILER	WB-67	13.5	8.5	74	3	3	20	45-47	-	-	-

FOR ADDITIONAL DESIGN VEHICLES SEE TABLE II-1 (PAGE 21).

- S IS THE DISTANCE FROM THE REAR EFFECTIVE AXLE TO THE HITCH POINT.
- T IS THE DISTANCE FROM THE HITCH POINT TO THE LEAD EFFECTIVE AXLE OF THE FOLLOWING UNIT.

MINOR REVISION -- FHWA APPROVAL NOT REQUIRED.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

MEDIAN OPENINGS
ON 4-LANE
DIVIDED HIGHWAY

10-26-92 RP-DHO-1