NOTE: SEMICIRCULAR ENDS ARE NOT DESIRABLE FOR MEDIANS

GREATER THAN 10' IN WIDTH.

L= MINIMUM LENGTH OF MEDIAN OPENING (IN FEET) **MEDIAN** WIDTH WB-40 DESIGN VEHICLE P DESIGN VEHICLE SU DESIGN VEHICLE **CONTROL RADIUS = 40' CONTROL RADIUS = 50'** CONTROL RADIUS = 75' IN FEET SEMICIRCULAR | BULLET NOSE SEMICIRCULAR | BULLET NOSE SEMICIRCULAR | BULLET NOSE TYPE "A" TYPE "B" TYPE "C" TYPE "D" TYPE "E" TYPE "F" 146 122 96 60 144 121 6 74 94 76 8 72 56 92 68 142 112 10 70 56 90 62 140 104 68 56 98 12 88 58 138 56 56 66 86 92 14 16 56 56 88 64 84 134 20 60 56 80 56 130 78 24 56 56 56 76 72 28 56 MIN 56 MIN 72 56 122 65 32 56 MIN 56 MIN 68 56 118 60 56 36 56 MIN 56 MIN 64 54 40 56 MIN 56 56 MIN 60 100 49 50 56 MIN 56 MIN 60 MIN 56 MIN 60 90 56 MIN 56 MIN 60 MIN 56 MIN 44 70 56 MIN 56 MIN 60 MIN 56 MIN 80 44 MIN 80 56 MIN 56 MIN 60 MIN 56 MIN 70 44 MIN 100 56 MIN 56 MIN 60 MIN 56 MIN 50 44 MIN 110 50 MIN 56 MIN 56 MIN 60 MIN 56 MIN 44 MIN

I C = MINIMUM | FNGTH OF MEDIAN OPENING (IN FEFT)

TABLE IS TAKEN FROM TABLE 9-25 (PAGE 9-145), TABLE 9-26 (PAGE 9-146) AND TABLE 9-27 (PAGE 9-147).

R2 R3 Ç MEDIAN R = CONTROL RADIUS S R1 = TANGENT TO POINTS (1) & (2) R2 = 2' TO $\frac{M}{5}$ (VARIABLE) -Ç CROSSROAD

MINIMUM DESIGN OF MEDIAN OPENINGS FOR SKEWED CROSSROADS **BASED ON CONTROL RADIUS**

NOTE: ASYMMETRIC BULLET NOSE DESIGN IS PREFERABLE FOR ALL SKEWED CROSSROADS.

LEGEDN

® R = 50', UNLESS OTHERWISE SHOWN ON PLANS.

-ANDARD

9:34 PM \DESIGN

27/202(Stand

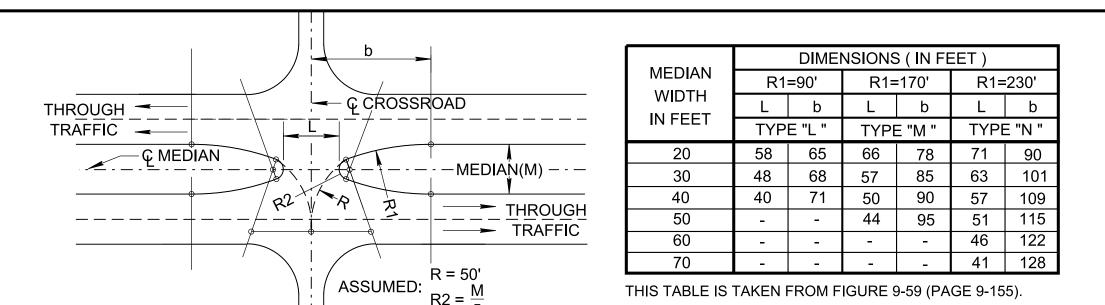
NOT TO SCALE

(1) & (2) = THE RADIUS IS TANGENT TO THE CENTER LINE OF THE CROSS ROAD AND TO THE TANGENT INSIDE EDGE OF PAVEMENT ON THE MAINLINE NEXT TO MEDION.

		D ON CONT		•	FEET	
SKEW	MEDIAN	LC = LENGTH OF MEDIAN OPENING, IN FEET MEASURED NORMAL TO THE CROSSROAD				
ANGLE	WIDTH		BULLE ⁻	ΓNOSE	TYPE C	
DEGREES	IN FEET	SEMICIRCULAR	SYMMETRICAL	ASYMMETRICAL	IN FEET	
	10	90	62	-	-	
90	20	80	44	-	-	
90	30	70	56 MIN	-	-	
	40	60	56 MIN	-	-	
	10	106	80	77	70	
	20	94	58	56 MIN	68	
80	30	82	56 MIN	56 MIN	65	
	40	71	56 MIN	56 MIN	63	
	50	60	-	-	-	
	10	128	100	96	97	
	20	115	78	75	92	
70	30	102	62	52 MIN	86	
, 0	40	86	56 MIN	52 MIN	82	
	50	74	56 MIN	52 MIN	76	
	60	60	-	-	-	
	10	158	130	121	140	
	20	142	105	90	130	
60	30	126	86	33	120	
	40	110	72	50	110	
	50	90	58	50 MIN	100	
	60	78	50 MIN	50 MIN	90	
	10	196	170	150	210	
	20	180	140	120	193	
50	30	160	120	90	174	
50	40	140	100	68	156	
	50	120	86	50	139	
	60	105	l 74	32	121	

TABLE IS TAKEN FROM TABLE 9-28 (PAGE 9-153).

NOTE: IN GENERAL MEDIAN OPENINGS LONGER THAN 80 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.



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

- NOTE: RADIUS R1 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 IN THE TABLE ABOVE...

DESIGN CONTROLS FOR MINIMUM MEDIAN OPENINGS

DESIGN VEHICLES	ACCOMMODATED	CONTROL RADIUS
PREDOMINANT	OCCASIONAL	(FT.)
Р	SU-30	40
SU-30	SU-40	50
WB-40	-	75
WB-62	WB-67	130

TABLE IS TAKEN FROM TABLE 9-29 (PAGE 9-154).

DESIGN VEHICLE DIMENSIONS (IN FEET)											
DESIGN VEHICLE		OV	OVERALL		OVERHANG		WHEELBASES				_
TYPE	SYMBOL	Н	W	٦	F	R	WB1	WB2	WB3	S	Т
PASSENGER CAR	Р	4.3	7	19	3	5	11	ı	-	-	-
SINGLE UNIT TRUCK	SU	11-13.5	8	30	4	6	20	ı	ı	ı	-
LARGE SCHOOL BUS	A-BUS	10.5	8	40	7	13	20	ı	-	ı	-
INTERMEDIATE SEMITRAILER	WB-40	13.5	8	45.5	3	4.5 a	12.5	25.5	ı	ı	-
DOUBLE-BOTTOM SEMITRAILER	WB-67D	13.5	8.5	72.3	2	3	11	23	22.5	3	7
INTERSTATE SEMITRAILER	WB-62	13.5	8.5	69	4	4.5	19.5	41	ı	-	-
INTERSTATE SEMITRAILER	WB-67	13.5	8.5	73.5	4	4.5	19.5	45	ı	_	-

FOR ADDITIONAL DESIGN VEHICLES, SEE TABLE II-1B (PAGE 2-4)

NOTE: S IS THE DISTANCE FROM THE REAR EFFECTIVE AXLE TO THE HITCH POINT OR POINT OF ARTICULATION. T IS THE DISTANCE FROM THE HITCH POINT OR POINT OF ARTICULATION MEASURED BACK TO THE CENTER OF THE NEXT AXLE OR THE CENTER OF THE TANDEM AXLE ASSEMBLY. H = HEIGHT, W = WIDTH, L = LENGTH, F = FRONT & R = REAR

MINIMUM DESIGNS FOR U-TURNS - TYPE "J"

		M - MINIMUM WIDTH OF MEDIAN (IN FEET) FOR DESIGN VEHICLE						
TYF	PE OF MANEUVER	Р	WB-40	SU-30	BUS	WB-62	WB-67	
		LENGTH OF DESIGN VEHICLE						
		19'	50'	30'	40'	63'	68'	
INNER LANE TO INNER LANE	7 12' 2'//M//	30	61	63	63	69	69	
INNER	-							

18

49

39

51

TABLE IS TAKEN FROM TABLE 9-30 (PAGE 9-166).

LANE

TO

OUTER

LANE

INNER LANE

TO SHOULDEI

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.

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

- BEYOND INTERSECTIONS TO ACCOMMODATE MINOR TURNING MOVEMENTS NOT OTHERWISE PROVIDED IN THE INTERSECTION OR INTERCHANGE AREA.
- JUST AHEAD OF AN INTERSECTION TO ACCOMMODATE U-TURN MOVEMENTS THAT WOULD INTERFERE WITH THROUGH AND OTHER TURNING MOVEMENTS AT THE INTERSECTION.
- 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.
- OCCURRING 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

- FOR SPECIFIC CONDITIONS NOT COVERED ON THIS SHEET, REFERENCE SHOULD BE MADE TO "AASHTO A POLICY ON GEOMETRIC DESIGN OF HIGHWAYS AND STREETS" (GREEN BOOK, 2011 EDITION).
- PAGE NUMBERS REFERRED TO ON THIS DRAWING ARE FROM THE ABOVE REFERENCE.

■ REV. 7-1-72: CHANGED DEPARTMENT NAME

REV. 7-1-76: CHANGED DWG. NO. FROM M-O-1 (68) TO RP-M-1.

REV. 3-15-76: DELETED REFERENCE TO OLD DWG. NO., SUBSTITUTED NEW DWG. NO.

REV. 10-17-86: CHANGED C-43 TO WB-40 AND MEDIAN OPENING LENGTH. CHANGED U-TURN 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 AND

REV. 05-01-20: REVISED ALL TABLES, TABLES NOTES AND GENERAL NOTE (A) TO COMPLY WITH AASHTO PUBLICATION "A POLICY ON GEOMETRIC DESIGN FOR HIGHWAYS AND STREETS" - 2011 EDITION.

STREETS " - 1990 EDITION.

REDREW SHEET.

57

47

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41

57

47

■ APPROVED BY FHWA (ALL OTHERS APPROVED BY TDOT)

STATE OF TENNESSEE STANDARD DRAWING **DEPARTMENT OF TRANSPORTATION**

MEDIAN OPENINGS ON 4-LANE **DIVIDED HIGHWAY**

10-26-1992

RP-DHO-1