

DIRECTIONALS

FREE-ACC	ESS			
Cross-street directionals for median widths over 100' (30m and less than 26' (8m) require special study. Rural cross- directionals require special study.) street DETAIL D-11U D-12U D-12U D-13U D-13U D-10 * Use GEO GEO-101 * Use GEO GEO-101 Drivewo left econe-way	MEDIAN WIDTH, M 100'-66'(30m-20m) 65'-41'(20m-12m) 40'-26'(12m-8m) SPECIAL -100-Series and -Series for desira by centerline or tr dge of pavement in y street or ramp.	R ₁ (1.4)(M) (1.4)(M) (1.8)(M) ble flare raffic div the case	R ₀ (1.6)(M) (1.8)(M) (2.0)(M) rates. vider; of a
Taper is not required if number of lanes on mainline is greater than two. R; becomes M. → → → → → → → → → → → → → → → → → → →	 bed > DETAIL D-21U D-20 Median w 30' (9m)	MEDIAN WIDTH, M 100'-30'(30m-9m) SPECIAL idths over 100' (3 require special s	R ₁ M-12 (Om) and I tudy.	R ₀ 1.75)(M) ess than
SPECIAL		RY LANE TAP	FR TAF	31 F
Special situations may make other crossover details desirable. Their details should be determined by the Geometric Review and Congestion Analysis Unit. Special study is required for directional crossovers with median widths less than 30' (9m) or greater than 120' (36m). Loons may be required opposite crossover to accommodate turns in narrow medians.	Not to be used for transitioning thr traffic. The tap rate is the same both curbed and uncurbed roadways	$\begin{array}{c c} & & & & \\ \hline r \\ rough \\ per \\ for \\ \hline s. \\ \hline \end{array} \begin{array}{c} POSTED \\ SPEED \\ MPH \ (kpl \\ \leq 35 \ (\leq 6 \\ 40 \ (60) \\ \hline 45 \ (70) \\ 50 \ (80) \\ \hline 55 \ (90) \end{array}$	AUXIL TAPE 0) 75(100(130(180(225(IARY ER (m) 23) 30) 40m) 55m) 70m)
In an uncurbed area, use type "B" curb along storage lane and on both inside and outside radii.	DUT DETAIL			
	50' (15m)	x 50' (9m) single lar 56' (11m) dual lare		
NOT TO SCALE MICHIGAN DEPARTMENT OF TRANSPORTATION TRAFFIC AND SAFETY GEOMETRIC D FILE:PW RD TS Geo/mdot traf GEO-670-E.dan REV. 07/07/	ESIGN GUIDE 06/1 2022 PI At	O/2014 GEO	—670-Е	SHEET 2 OF 5





MINIMUM DESIGNS FOR U-TURNS						
	M = Min. width of median - ft (m) for design vehicle					
Type of Maneuver	Р	SU	BUS	WB-50	WB-67	
Left Lane to Inner Lane	44′ (13.4m)	76′ (23.2m)	80′ (24m)	82′ (25m)	82' (25m) *	
Left Lane to 2nd Lane	32′ (9.8m)	64′ (19.5m)	68′ (20.7m)	70′ (21m)	70' (21m) *	
Left Lane to 3rd Lane	22′ (6.7m)	54′ (16.5m)	58′ (17.7m)	60′ (18m)	60' (18m) *	
* To accommodate WB-67 semi-trucks, provide 36' (11m) crossover width or 4' (1.2m) paved area behind curb on the inside radius, from spring point to spring point.	<pre>Vehicle Codes and Length of Design Vehicle - ft (m) P = Passenger, 19' (5.8m) SU = Single Unit Truck, 30' (9m) BUS = Bus, 40' (12m) WB-50 = Semi-Truck Medium Size, 55' (16.5m) WB-67 = Semi-Truck Large Size, 70' (21m)</pre>					
NOTES:						
1. Crossovers should be called for by their r the plans.	espective	detail nu	umber or d	detailed	in	
2. Crossover details are to be used on free-a	ccess faci	ilities or	ıly.			
3. Bi-directional crossovers should have a mi streets or commercial driveways which are streets or commercial driveways that have of the crossover should match the cross st	nimum wid 30′(9m) o a width ot reet width	th of 30' or less in fgreater h	(9m) at width. than 30'	intersect For inte (9m), th	ing rsecting e width	
 Desirably, free-access crossover grades sh special study. 	ould not e	exceed 3%	steepe	r grades	require	

- 5. For type of curb on crossovers, see Sec. 6.06.06 of Road Design Manual.
- For typical joint layouts on concrete pavement, see Standard Plan R-42-Series. 6.
- 7. These design concepts are for new construction. Where modification may be needed for retrofitting to existing road features, consult the Geometric Review and Congestion Analysis Unit, Division of Operations.
- Current AASHTO "A Policy on Geometric Design of Highways and Streets" and MDOT 8. Guidelines should be used for sight distance requirements.

NOT TO SCALE

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