GEOMETRIC DESIGN STANDARDS FOR RESIDENTIAL AND MIXED USE SUBDIVISION STREETS (GS- SSAR) TABLE 1– CURB AND GUTTER SECTION

	HOR	HORIZONTAL AND VERTICAL CONTROLS					CURB AND GUTTER ROADWAYS		
	1	Maximum 2:1 Cut or Fill Slope Preferred 3:1 Cut or Fill Slopes					(Minimum Widths Measured Face of Curb to Face of Curb)		
TRAFFIC (MPH)	CURVE DA	CURVE DATA		MINIMUM SIGHT DISTANCE					
VOLUME (NOT (ADT) POSTE SPEEL	MINIMUM CENTERLINE RADIUS (5)	SUPER -ELEV.	MAXIMUM % GRADE	STOPPING (3)	INTERSECTIONS (4)	NO PARKING (6)	PARKING 1 SIDE (2)	PARKING BOTH SIDES (2)	
UP TO 2000 25	200'	NONE	NOTE (7)	155'	280'	24' (1)	24' (1)	29' (1)	
2001 TO 4000 30	335'	NONE	NOTE (8)	200'	335'	26' (9)	31' (9)	36' (9)	
Notes:For streets with volumes over 4000 or s erving heavy commercial or I ndustrial traffic; use the appropri ate geometric design standard. (see VDOT's Road Design Manual).The roadway with the highest volume w ill govern the sight distance.Right of Way requirements can be found in Section B-4.1 Right Of Way.For volumes 2001 – 4000 vpd, d esign criteria for the Collector functional class was utilized to determine mi nimum design values.Lower design s peeds (and street widths) may be utilized provided they are designed in accordance w ith the AASHTO Green Book or AASHTO's Guidelines for Geometric Design of Very Low-Volume Local Roads (ADT<400). The designer should coordinate with VDOT in advance of design (e.g. sketch plan stage) if this alternative criteria is being utilized.If 20 mph minimum design speed is utilized, a 20 mph advisory speed limit sign shall be posted along with any other horizontal or vertical curve warning signs as warranted.An engineering speed study sealed and signed by a licensed professional engineer, using V DOT's standard speed stud y report, must be provided b y the developer and approved b y VDOT for any roads posted at other than the statutor y speed limit and planned for acceptance into the state system.			 If the (2001) With p Chapt Manuary 2011 / 4. 2011 / adjust 2011 / 6. Latera 5 (Pag 2011 / 8. 2011 / 9. Lane 2 feet VDOT 	 If the Local Street has 1 point o f access and A DT>400 vpd, then the road way width must meet design values (2001 to 4000 vpd). With parking lanes, the horizontal clearance (measured from face of curb) is 1.5' (Min). 2011 AASHTO Green Book Chapter 5 (Page 5-20). However, VDOT has established a 3' minimum setback requirement behind the curb (This Manual, Section B-5, Figure 10). 2011 AASHTO Green Book Chapter 3 (Page 3-4, Table 3-1) 2011 AASHTO Green Book Chapter 9 (Page 9-3 8, Table 9-6). For grades greater than 3%, the time gap must b e adjusted and required sight distance recalculated. 2011 AASHTO Green Book Chapter 3 (Page 3-55, Table 3-13b) Lateral offset (measured from face of curb) should be a minimum of 1.5' (Min) 2011 AASHTO Green Book Chapter 5 (Page 5-20). Gutter pan is not a portion of the travelway, but is a portion of the parking lane. 2011 AASHTO Green Book Chapter 5 (Page 5-12). 2011 AASHTO Green Book Chapter 6 (Page 6-12). Lane widths may vary between 10'-12' feet for collectors with 2001-4000 ADT. Widths shown may be decreased by 2 feet (26 feet to 24 feet), (31 feet to 29 feet) and (36 feet to 34 feet) based upon engineering judgment subject to VDOT approval. 					