

Proposed Public Street Widths and Traffic Calming Features

Presentation to
Transportation Advisory Committee
April 17, 2012



Background

- Several presentations to Development Process Committee and other committees (including EQAC) regarding public street widths and emergency access.
- Difficult balancing act
 - Maintain 20-foot unobstructed width for emergency vehicles.
 - Provide for traffic calming.
 - Minimize impervious surface

Background (cont.)

- The Board requested that staff develop public street standards for different levels of development (e.g. urban vs. suburban).
- Board requested staff to:
 - Acceptable to Fire and Rescue, Police, FCDOT.
 - Pursue VDOT's concurrence.
 - Obtain feedback regarding the proposed public street standards from EQAC, Transportation Advisory Committee and Trails and Sidewalks Committee.

Street Widths

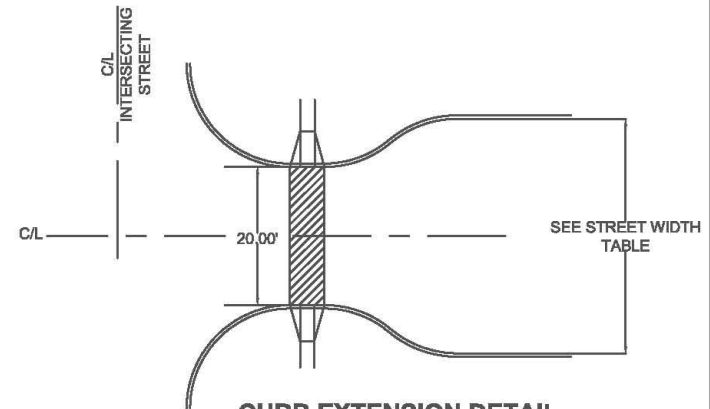
- Different widths based on types of public street and traffic volume (ADT).
- Types of streets
 - Urban residential
 - Urban mixed use
 - Suburban residential
 - Large-lot suburban residential
 - Commercial/Industrial

**CURRENT COUNTY STDS.
CURB FACE TO CURB FACE (FT.)**

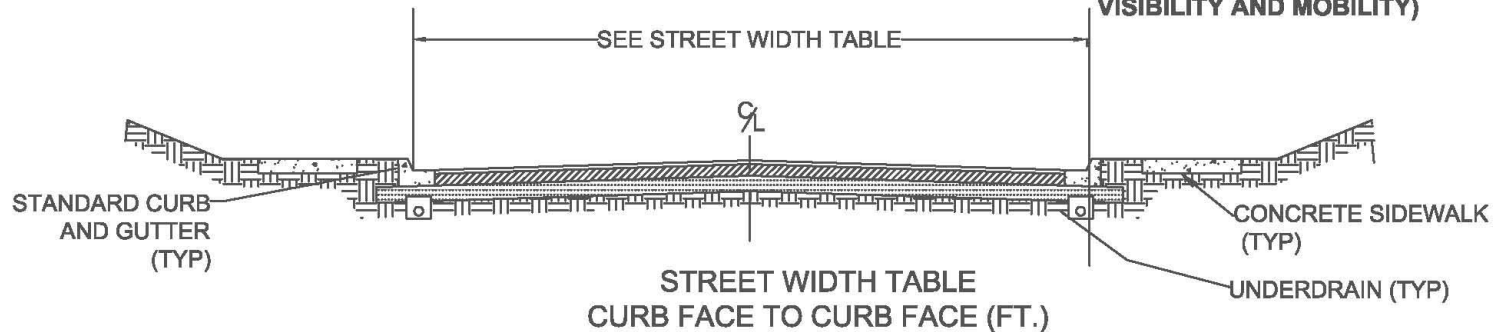
	0-400	401-2000	2001-4000
Urban Residential	26-28	36	36-40
Urban Mixed Use	26-28	36	36-40

**VDOT STDS.
CURB FACE TO CURB FACE (FT.)**

	0-400	401-2000	2001-4000
Urban Residential	29	29	36
Urban Mixed Use	29	29	36



**CURB EXTENSION DETAIL
(PROMOTES PEDESTRIAN
VISIBILITY AND MOBILITY)**



**STREET WIDTH TABLE
CURB FACE TO CURB FACE (FT.)**

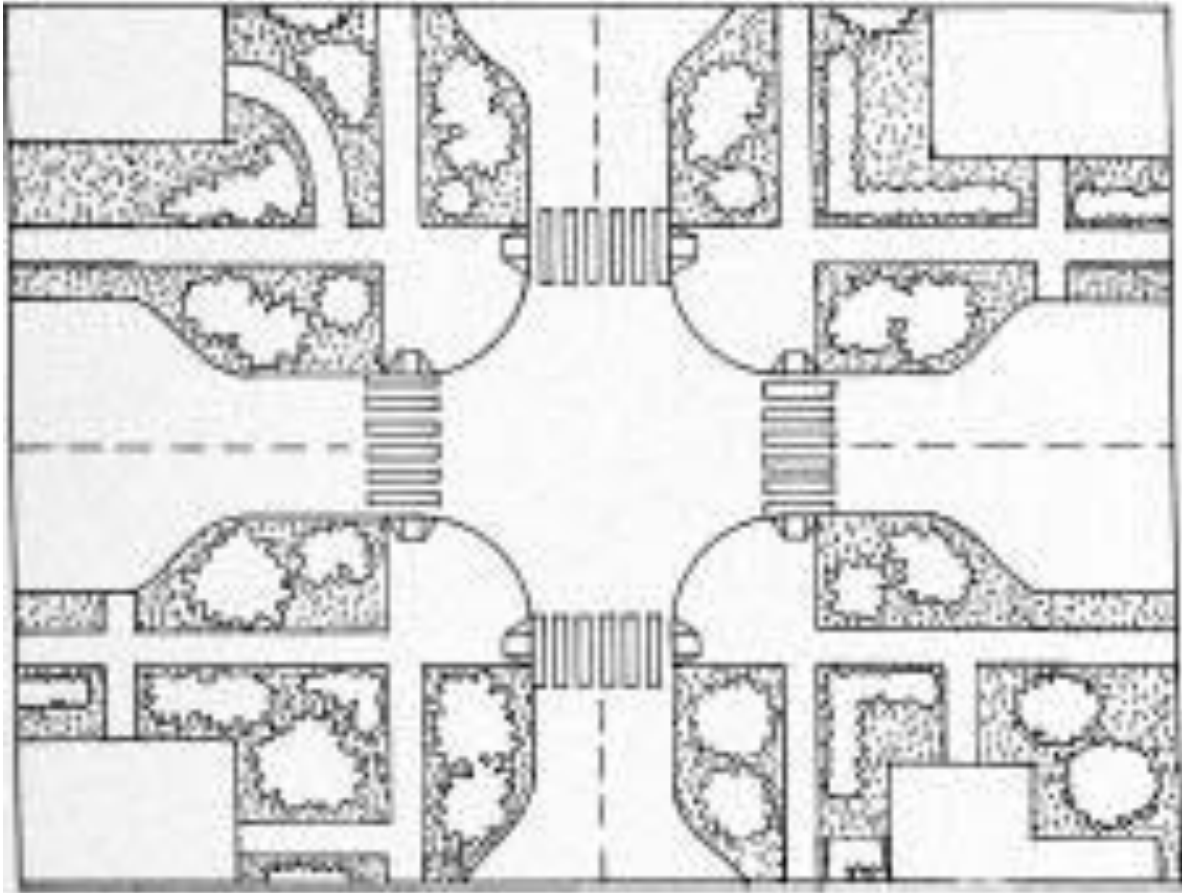
	Average Daily Traffic Volume (ADT)		
	0-400	401-2000 (See Note 1)	2001-4000
Urban Residential	34	34	36
Urban Mixed Use	36	36	38

NOTE:

- 1) If one point of access and ADT greater than 400, use design values for 2001 to 4000 ADT.

URBAN RESIDENTIAL (R5 - R30) AND URBAN MIXED USE

Curb Extensions / Bump outs



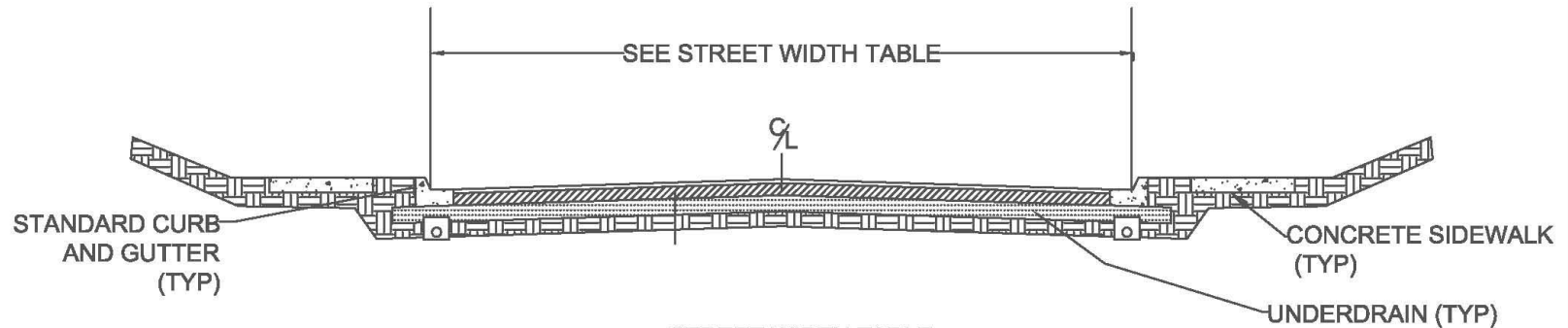
Picture courtesy of FHWA

**CURRENT COUNTY STDS.
CURB FACE TO CURB FACE (FT.)**

	0-400	401-2000	2001-4000
Suburban Residential (Parking both sides)	26-28	36	36-40
Suburban Residential (Parking one side)	-	-	-

**VDOT STDS.
CURB FACE TO CURB FACE (FT.)**

	0-400	401-2000	2001-4000
Suburban Residential (Parking both sides)	29	29	36
Suburban Residential (Parking one side)	22	24	31



**STREET WIDTH TABLE
CURB FACE TO CURB FACE (FT.)**

	Average Daily Traffic Volume (ADT)		
	0-400	401-2000 (See Note 2)	2001-4000
Suburban Residential (Parking both sides)	34	34	36
Suburban Residential (Parking one side) (See Note 1)	27	27	29

NOTES:

- 1) Parking on one side only applies to infill development parcels that are less than 5 acres with limited connectivity to adjacent parcels, and to cul-de-sac streets that are less than 400 feet in length.
- 2) If one point of access and ADT greater than 400, use design values for 2001 to 4000 ADT.
- 3) Suburban residential streets with ADTs greater than 600, lengths greater than 1000 feet, and parking on both sides of the street, shall include traffic calming measures. Details are provided in VDOT's Traffic Calming Guide for Local Residential Streets. Traffic calming measures shall be spaced between 500 feet and 800 feet apart. The traffic calming plan will be reviewed by Fairfax County Department of Transportation.

SUBURBAN RESIDENTIAL (R2, R3 AND R4)

Traffic Calming Features

(reviewed by Fairfax County Department of Transportation)

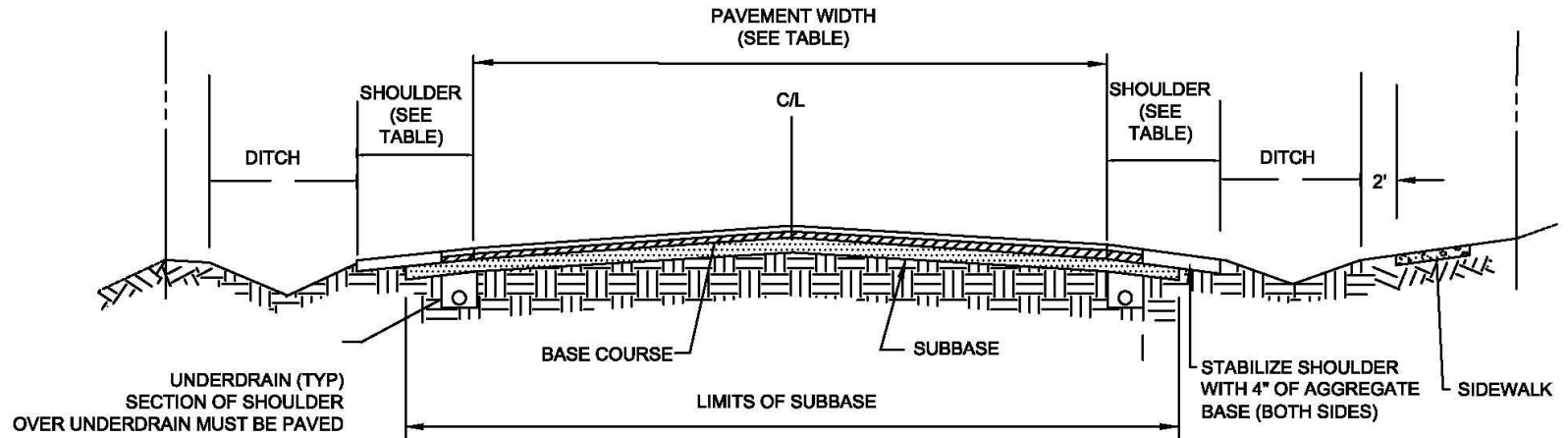
- Marking
- Speed Hump
- Speed Table
- Raised Crosswalk
- Roundabout
- Crosswalk Refuge
- Raised Median
- All Way Stops
- Curb extensions (bumpouts)

CURRENT COUNTY STDS.

	0-400 ADT		400-2000 ADT		2000-4000ADT	
	Pavement Width	Shoulder Width	Pavement Width	Shoulder Width	Pavement Width	Shoulder Width
Rural Residential (Assumes no parking)	18	2-4	20-22	5-6	24	8

VDOT STDS.

	0-400 ADT		400-2000 ADT		2000-4000ADT	
	Pavement Width	Shoulder Width	Pavement Width	Shoulder Width	Pavement Width	Shoulder Width
Rural Residential (Parking both sides)	29	2.5	29	2.5	36	2
Rural Residential (Parking one side)	24	5	24	5	31	5



PAVEMENT WIDTH AND SHOULDER WIDTH TABLE

	Average Daily Traffic Volume (ADT)					
	0-400 ADT		400-2000 ADT (See Note 2)		2000-4000 ADT	
	Pavement Width (feet)	Shoulder Width (feet)	Pavement Width (feet)	Shoulder Width (feet)	Pavement Width (feet)	Shoulder Width (feet)
Rural Residential (Parking on both sides)	29	2.5	29	2.5	36	2
Rural Residential (Parking on one side) (See Note 1)	24	5	24	5	-	-

NOTES:

- 1) Parking on one side applies to infill development parcels less than 5 acres in size with limited connectivity to adjacent parcels, and to cul-de-sac streets that are less than 400 feet in length.
- 2) If one point of access and ADT greater than 400, use design values for 2001 to 4000 ADT.

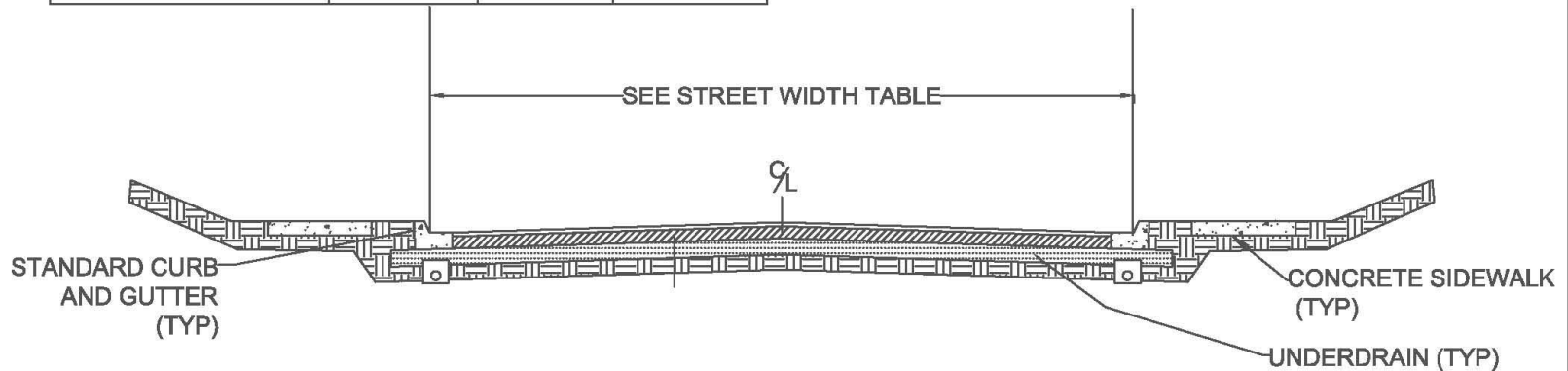
LARGE-LOT SUBURBAN (R1 AND LESS DENSE)

**CURRENT COUNTY STDS.
CURB FACE TO CURB FACE (FT.)**

	0-400	401-2000	2001-4000
Commercial/Industrial	26-28	36	36-40

**VDOT STDS.
CURB FACE TO CURB FACE (FT.)**

	0-400	401-2000	2001-4000
Commercial/Industrial	29	29	36



**STREET WIDTH TABLE
CURB FACE TO CURB FACE (FT.)**

	Average Daily Traffic Volume (ADT)		
	0-400	401-2000 (See Note 1)	2001-4000
Commercial/Industrial	38	38	38

NOTES:

- 1) If one point of access and ADT greater than 400, use design values for 2001 to 4000 ADT.

COMMERCIAL/INDUSTRIAL

Next Steps

- Coordinate with VDOT.
- Prepare amendment.
- Present to ESRC.
- Board Authorization to Advertise.
- PC and Board Public Hearings.