

### TRIP GENERATION

THE FOLLOWING SHALL BE USED TO DETERMINE THE “AVERAGE DAILY TRAFFIC” (ADT) WITHIN NEW RESIDENTIAL DEVELOPMENTS. THE DESIGN LIFE FOR ALL PAVEMENTS SHALL BE A MINIMUM OF 15-YEARS. THE FOLLOWING FACTOR SHALL BE USED ON A PER LOT BASIS, PER DWELLING UNIT BASIS, PER USE BASIS, OR CALCULATED ON THE MAXIMUM DENSITY, WHICHEVER WILL GENERATE THE GREATEST NUMBER OF TRIPS. FACTORS FOR AREAS ZONED OTHER THAN RESIDENTIAL SHALL BE ASSIGNED FACTORS ON AN INDIVIDUAL BASIS BY THE CITY ENGINEERING DEPARTMENT, USING THE TRIP GENERATION INTENSITY FACTORS AND SUPPLEMENTS THEREOF PUBLISHED BY THE ARIZONA DEPARTMENT OF TRANSPORTATION AS A REFERENCE MANUAL.

ONCE THE ADT HAS BEEN CALCULATED, THE “DESIGN AVERAGE DAILY TRAFFIC” (  $\overline{ADT}$  ) CAN BE CALCULATED BY USING FORMULA ② BELOW IN CONJUNCTION WITH TABLE 10-4.

ZONE CLASSIFICATION	TRIPS/DAY/DWELLING
R-6 MULTIFAMILY	6.7
R-9 HIGH DENSITY SINGLE FAMILY	8.2
A-3 MEDIUM DENSITY SINGLE FAMILY	10.0
A-2-4 LOW DENSITY SINGLE FAMILY	9.5

$$\textcircled{2} \quad \overline{ADT} = \frac{ADT + (G \times ADT)}{2}$$

Where:  $\overline{ADT}$  = THE “DESIGN AVERAGE DAILY TRAFFIC” OR THE AVERAGE DAILY TRAFFIC OVER THE DESIGN LIFE OF THE PAVEMENT.

ADT = THE AVERAGE DAILY TRAFFIC AT FULL DEVELOPMENT = (TOTAL NUMBER OF DWELLINGS USING THE STREET AT FULL DEVELOPMENT) x (THE TRIPS/DAY/DWELLING FOR THE ZONE CLASSIFICATION OF THE DWELLING)

G = GROWTH FACTOR (SEE STD. DETAIL NO. 491.03)



PUBLIC WORKS DEPARTMENT  
1500 Beatty Street  
Greenville, North Carolina 27834

**CITY OF GREENVILLE, N.C.**  
USE WITH THE CITY OF GREENVILLE, N.C. STANDARD SPECIFICATIONS ONLY

www.greenvillenc.gov

No.	Date	Description
1	9/16/11	APPROVAL
Scale: not to scale		
Sheet #: 1 of 1		Detail # 491.02

## RESIDENTIAL STREET SECTION DESIGN