

PC Tysons Corner Committee

Robert Etris
City of Falls Church
Public Utilities Division Director



January 14, 2008

Water System Planning

- **Water System Master Plan updated January 2008 by Whitman, Requardt and Associates, LLP**
- **Computerized Water System Hydraulic Model – WaterCAD V8 XM**

- 17 Million Gallons per Day (Average Demand)
- 25 Million Gallons per Day (Peak Demand)
- Washington Aqueduct Water Treatment Plant



CHESTERBROOK PUMP STATION



CITY OF
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January 14, 2008

Water System Basics

- 14.2 Million Gallons of Water Storage
- Over 495 Miles of Pipe
- 8 Water Pump Stations

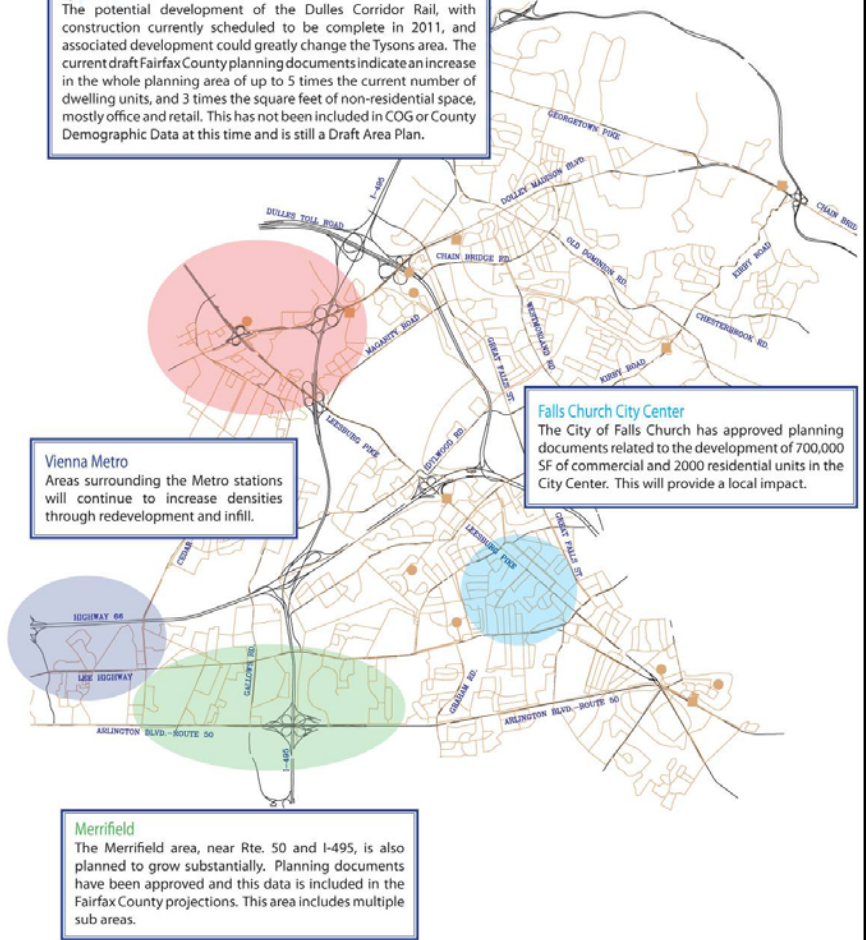


MCLEAN AND LEWINSVILLE TANKS

Service area includes:

- City of Falls Church
- McLean
- Merrifield
- Vienna Metro
- Tysons Corner

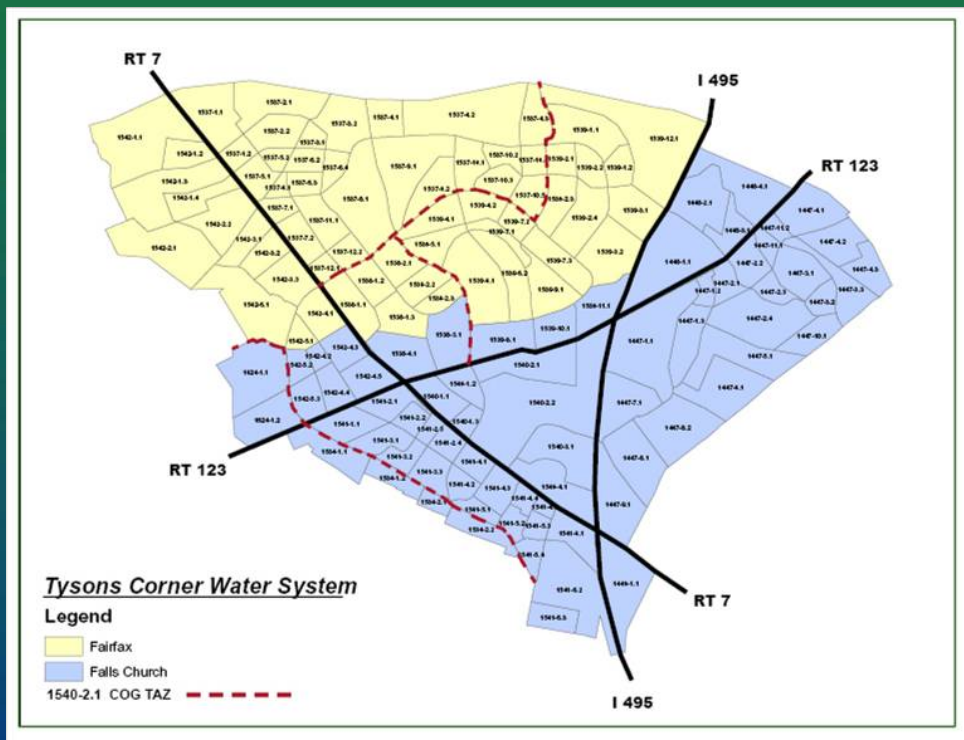
The potential development of the Dulles Corridor Rail, with construction currently scheduled to be complete in 2011, and associated development could greatly change the Tysons area. The current draft Fairfax County planning documents indicate an increase in the whole planning area of up to 5 times the current number of dwelling units, and 3 times the square feet of non-residential space, mostly office and retail. This has not been included in COG or County Demographic Data at this time and is still a Draft Area Plan.



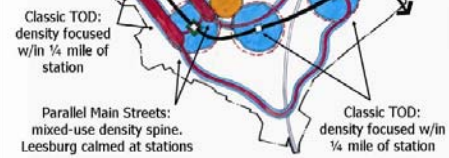
Water System – Tysons Corner

Tysons Corner water service is provided by Fairfax Water and the City of Falls Church

Planning Data is sub-COG TAZ level

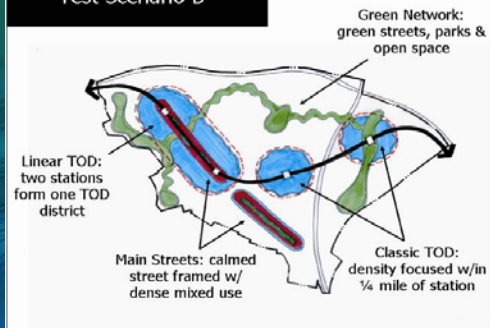


The 2008 Falls Church Master Plan reviewed three Tysons Corner concepts, per the Tysons Task Force.



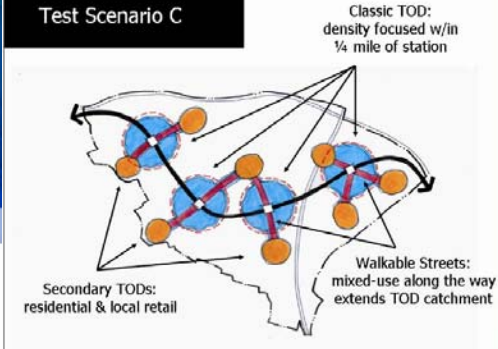
Portland Streetcar/transit mall, and Denver's 16th Street transit mall.

Test Scenario B



Scenario B focuses most of the jobs growth close to Metrorail stations. Leesburg Pike (Route 7) becomes a dense "Great Street" for shopping, walking, living, and working. Density decreases with distance from Metrorail. A green network connects pocket parks, open spaces, and passive and active green spaces. Great Streets examples include Bethesda and Chicago's Michigan Ave.

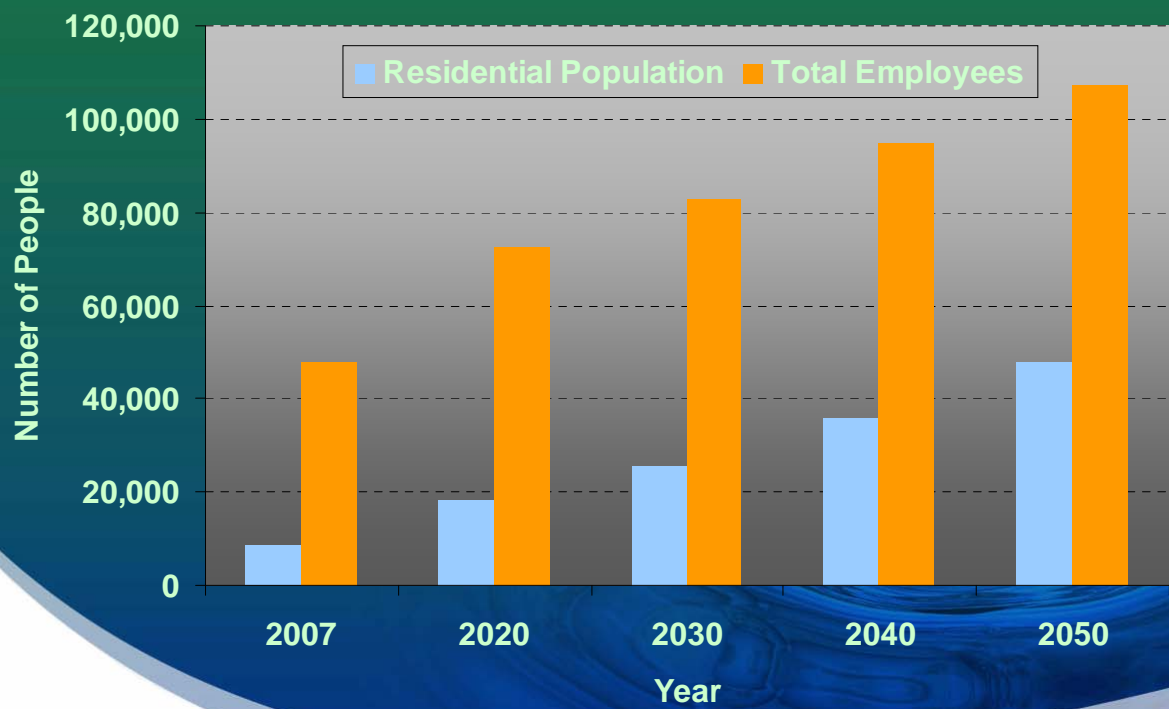
Test Scenario C

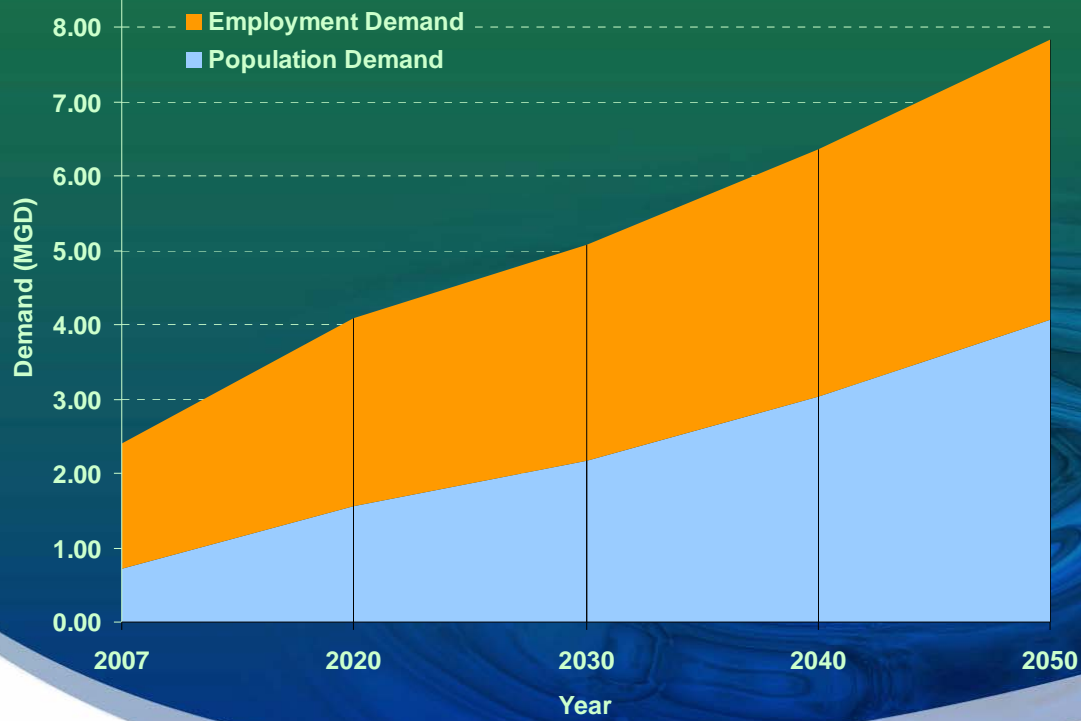


Scenario C allocates most of the housing growth in the vicinity of Metrorail stations. Active mixed-use walking streets lead to residential clusters separated from the station by more than 1/4 mile. Residential clusters are anchored by local retail and open space. Examples include the Rosslyn-Ballston Corridor and Orenco Station in Portland.



Tysons Corner Projections for the Falls Church Service Area

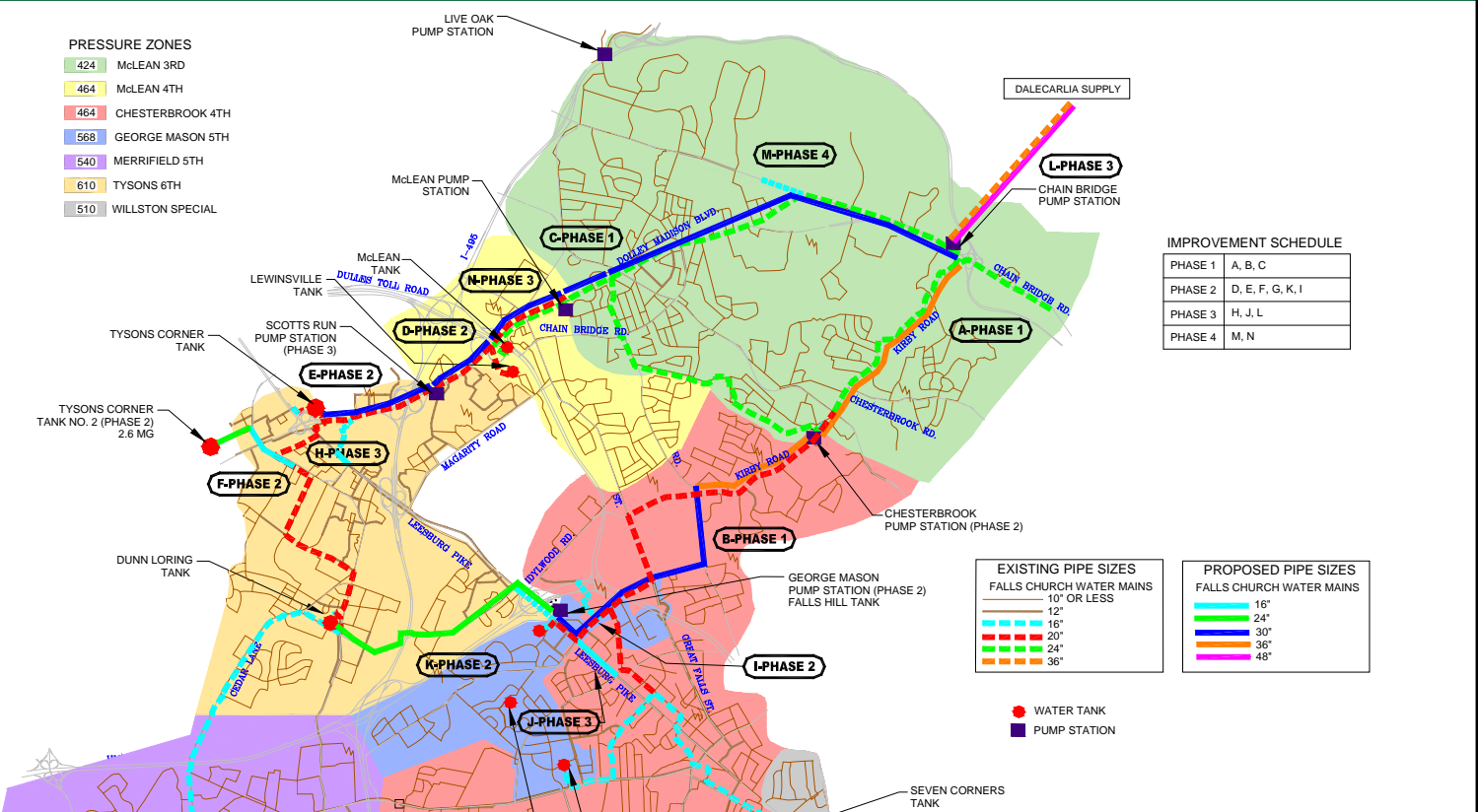




CITY OF FALLS CHURCH VIRGINIA

January 14, 2008

Water System Capital Improvement Plan



- **Scotts Run 13 mgd Pump Station**
~ Full replacement
- **Tysons Corner Storage Tank**
~ 2.2 Million Gallons
- **George Mason Pumping Station**
~ New larger pumps
- **Dunn Loring Pumping Station**
~ New facility



SCOTTS RUN PUMP STATION
CONSTRUCTION



Water System Capital Improvement Plan

Summary Options - transmission & distribution		Planning Timeline	Length	Diameter
A	Kirby Road Chain Bridge to Chesterbrook	Phase 1	11,410	36-inch
B	Kirby Road after Chesterbrook	Phase 1	5,640	36-inch
B	Kirby to Great Falls St., Westmoreland to Haycock	Phase 1	7,580	30-inch
C	RT 123 24-inch Junction to McLean	Phase 1	2,040	30-inch
D	Rt 123 Toll Road to I-495	Phase 2	3,600	30-inch
E	Rt 123 I-495 Crossing	Phase 2	3,520	30-inch
F	Tysons Tank #2 Area	Phase 2	700	24-inch
F	Tysons Tank #2 Area	Phase 2	2,400	16-inch
G	Route 50 Improvement - I-495 to Seven Corners	Phase 2	2,940	24-inch
G	Route 50 Improvement - I-495 to Seven Corners	Phase 2	18,320	16-inch
I	Leesburg Pike, George Mason PS Area	Phase 2	3,370	30-inch
K	Idylwood - GM PS to Dunn Loring (Cross I-495)	Phase 2	11,160	24-inch
H	Leesburg Pike, Tysons Area	Phase 3	510	24-inch
J	George Mason PS Area (w/ PS Upgrade)	Phase 3	1,160	24-inch
J	West Broad Street Area	Phase 3	3,830	16-inch
J	West Broad Street Area	Phase 3	4,440	12-inch
L	River Crossing	Phase 3	11,130	48-inch
M	Dolly Madison - Chain Bridge	Phase 4	14,600	30-inch
N	McLean PS to Tanks	Phase 4	3,520	30-inch

Thank you.

Questions?

**Robert J. Etris
City of Falls Church
Public Utilities Division Director
300 Park Avenue
Suite 300, West Wing
Falls Church, VA 22046-3301**



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