

# **Loudoun Water 600 Zone Water Storage Tanks Community Presentation**

**November 19, 2012**

Presented by:

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&

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# Agenda

- Project Summary
- Project Background
- Project Proposal
- Q&A

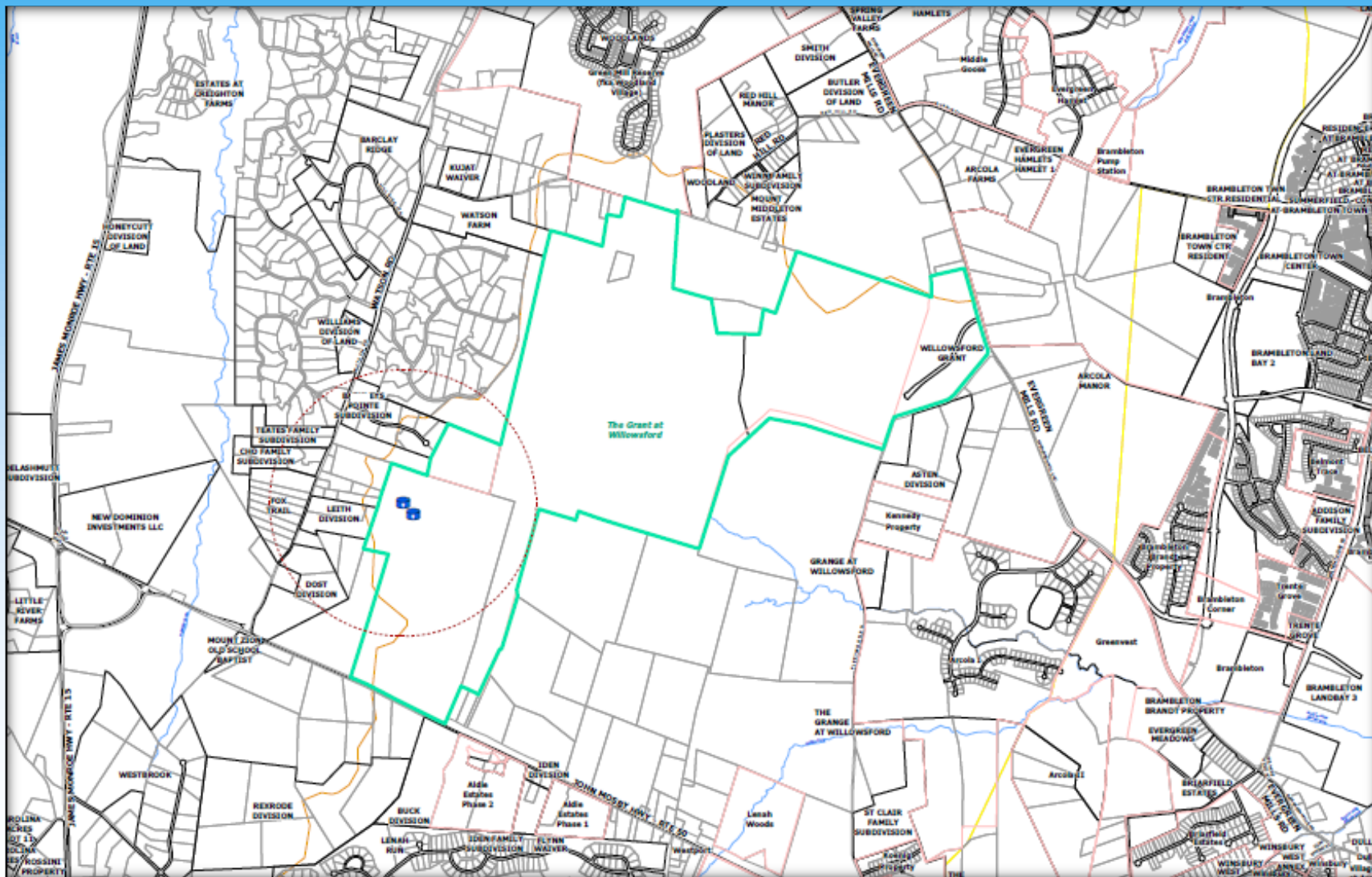


# Project Summary

- Two 1MG Elevated Water Tanks (188')
  - ❑ Phased build out; 1<sup>st</sup> tank online by 2016
- Located in Grant at Willowsford Subdivision
  - ❑ 0.6 miles from John Mosby Highway
- Tanks will ensure:
  - ❑ Capacity meets peak-hour water demand
  - ❑ Emergency reserves
  - ❑ Fire flow



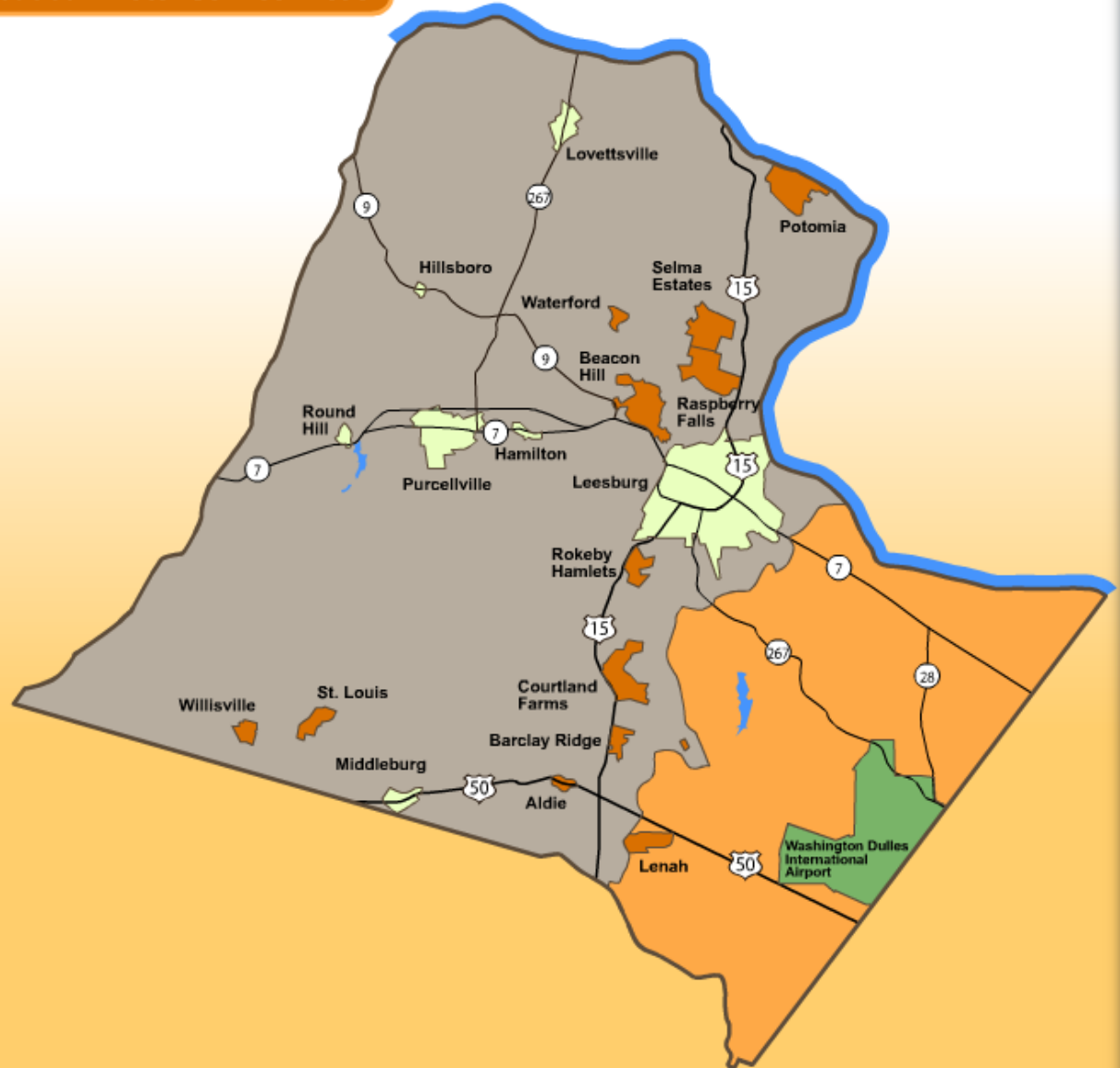
# Project Location



## BACKGROUND: LOUDOUN WATER

- Founded in 1959
- 64,000 accounts serving 180,000 individuals
- Serve customers in the Suburban and Transition Policy Areas

Loudoun Water Service Areas



Independent Water and Wastewater  
Authority

Receives No Tax Money

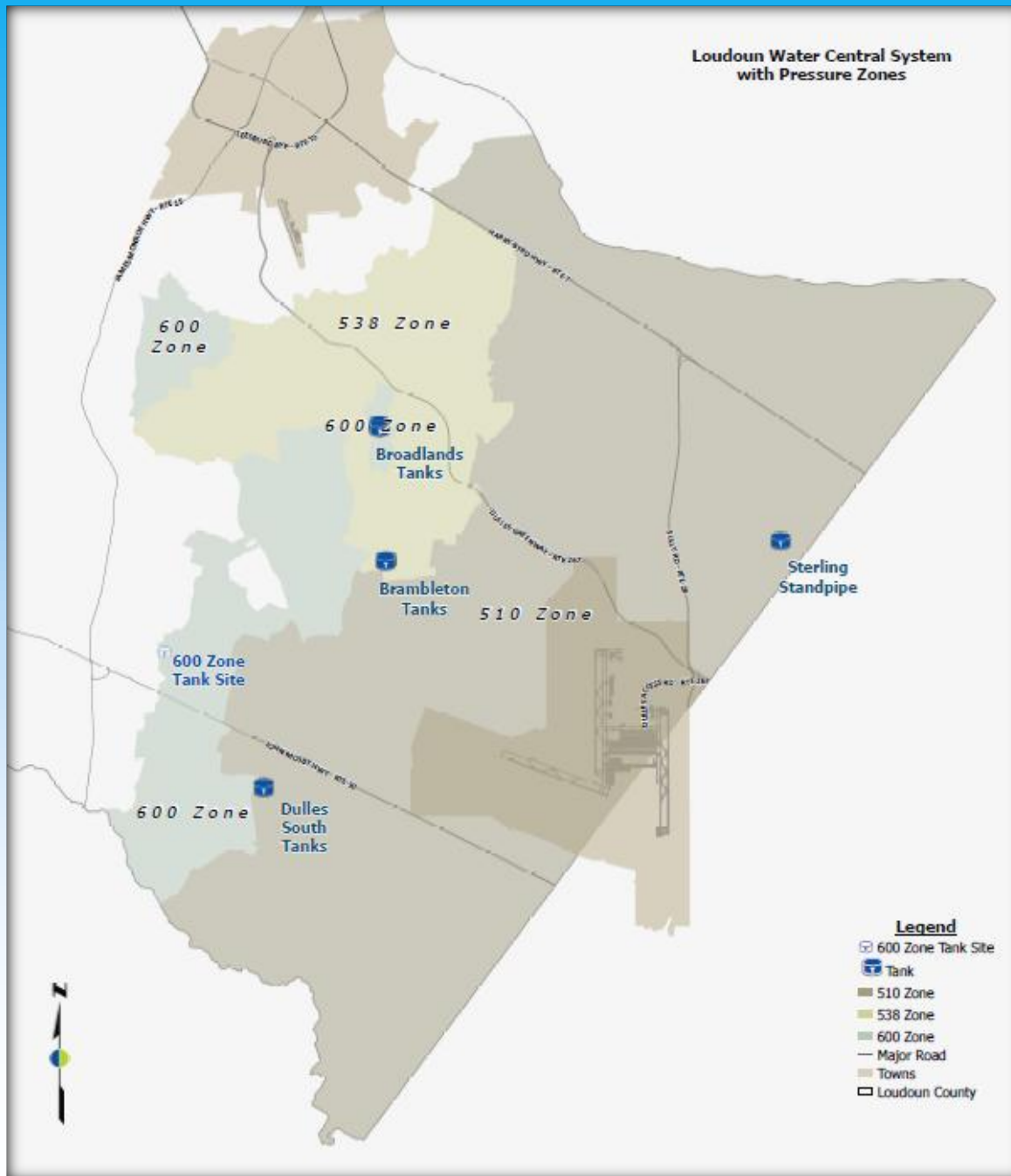
Growth Pays for Growth





Project is in response to planned growth within the Transition Policy Area

County General Plan recommends central utility service for new development in the Transition Policy Area



**Zones ensure that water is delivered at desired pressure**

**Tanks at edge of distribution system, spaced evenly from other tanks ensure efficiency and reliability**





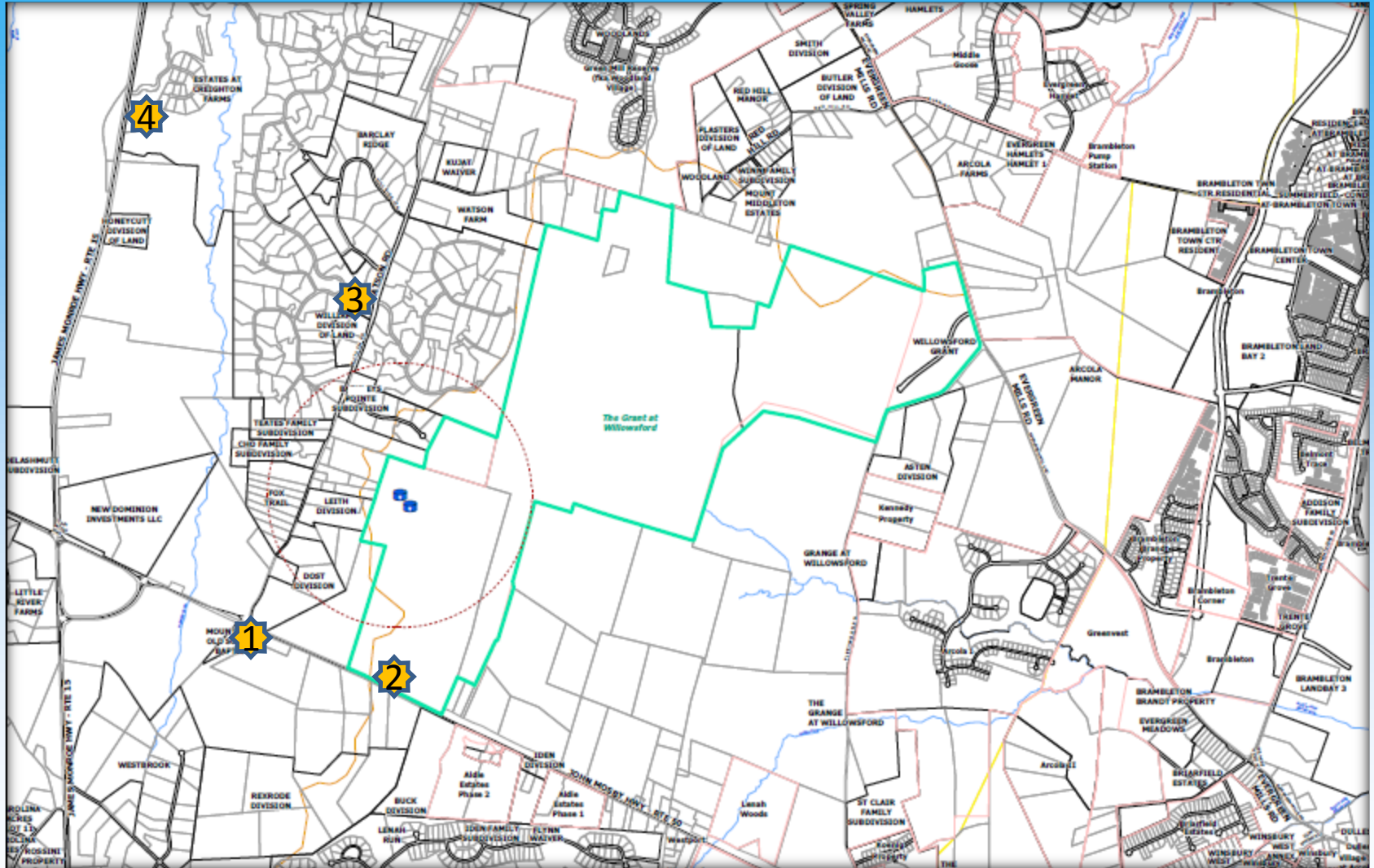
# Elevated = Reliable and Efficient

- 1/2: Daily Storage and Equalization – Satisfies demand for quantity (26-40mgd) and pressure (40psi)
- 1/3: Emergency Storage – Ensures water is available during power outages
- 1/6: Fire Protection – Provides fire flow without affecting water service to other customers

# Why This Site?

- Fulfills Fundamental Siting Criteria for Tanks
  - ☐ Centrally located in pressure zone
  - ☐ Near western boundary of service area
  - ☐ Equal distance to Brambleton & Dulles South
  - ☐ High ground to minimize tank height
  - ☐ Able to put property under contract

# Loudoun Water 600 Zone Water Storage Tanks Visual Assessment Photograph Locations





# Location 1: Intersection of Watson Rd & Rt. 50



Digital Design & Imaging Services, Inc.

## Location 2: Rt. 50 at Future Entrance to The Grant at Willowsford



Digital Design & Imaging Services, Inc.



## Location 3: Watson Rd. at Creighton Farms Drive



Digital Design & Imaging Services, Inc.

## Location 4: Rt. 15 at Creighton Farms Drive





# Aerial View of Tanks Site



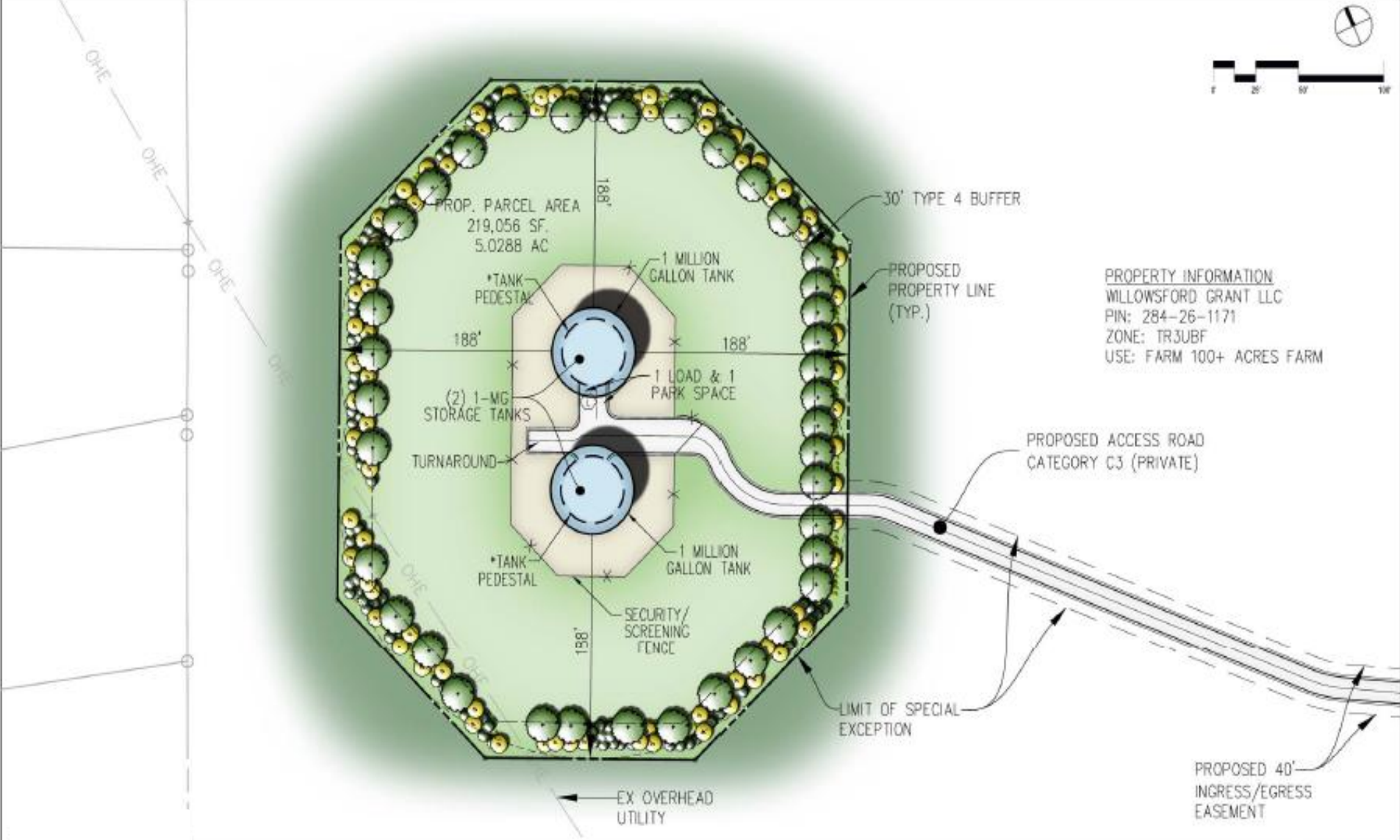
# Loudoun Water 600 Zone Water Storage Tank Area Context



Approximate Location  
of Proposed Tanks







## WILLOWSFORD - 600 ZONE WATER STORAGE TANKS

Loudoun County, Virginia  
 Scale: 1"=50'  
 November 19, 2012

## ILLUSTRATIVE CONCEPT PLAN



# Questions