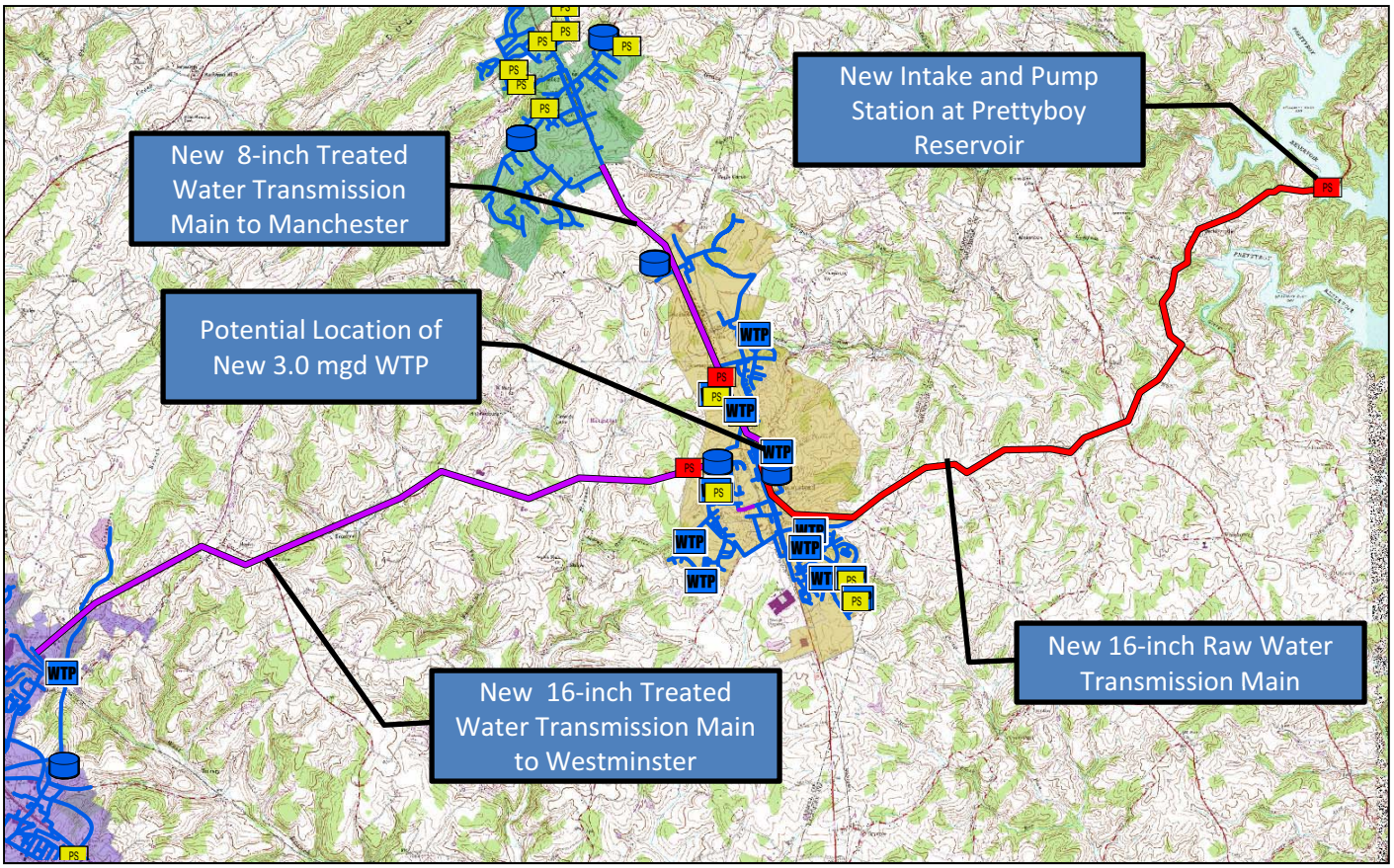
Alternative R-6: Prettyboy Reservoir

Description of Alternative:

- Potential for Baltimore's Prettyboy Reservoir to supply parts of northeastern Carroll County
- Baltimore's plans to develop a 120 mgd treatment plant for its Susquehanna River supply could significantly increase the reliability of Baltimore's water system (assuming more regular use of Susquehanna supply) such that purchase of excess capacity from Prettyboy Reservoir may become more practicable
- Baltimore water system stores 74.3 BG in 3 reservoirs draining 463 sq. mi. and includes 137 mgd capacity (250 mgd allowable) Susquehanna River Withdrawal.
- Conceptual alternative includes piping 3.0 mgd of raw water from Prettyboy via a 7.5-mile transmission main to a WTP in Hampstead.
- Requires new 3.0 mgd WTP in Hampstead.
- Regional approach to this option includes an interconnection with the Manchester (3.0-mile transmission main) and Westminster (6.7-mile transmission main) Service Areas to help supply future demands.
- Requires one high service pump station located at the intake on Prettyboy Reservoir, and two pump stations for the Manchester and Westminster interconnections.

Key Implementation Steps:

- Pursue an agreement with the City of Baltimore to purchase raw water from Prettyboy Reservoir.
- Evaluate treatment capacity of Manchester and/or Hampstead WTPs to treat additional water.
- Land Easement/Acquisition for pump station, intake, pipeline , and new WTP.
- Design and permitting for new intake and transmission mains.
- Key Permits Required:
  - USACE Section 404 Permit (assumes that a foundation will be constructed in the reservoir for the new intake structure).
  - Water and Sewerage Construction Permit
  - Water Appropriation and Use Permit
  - Non-tidal Wetlands and Waterways Permit
- Overcome potential local opposition in Baltimore County.



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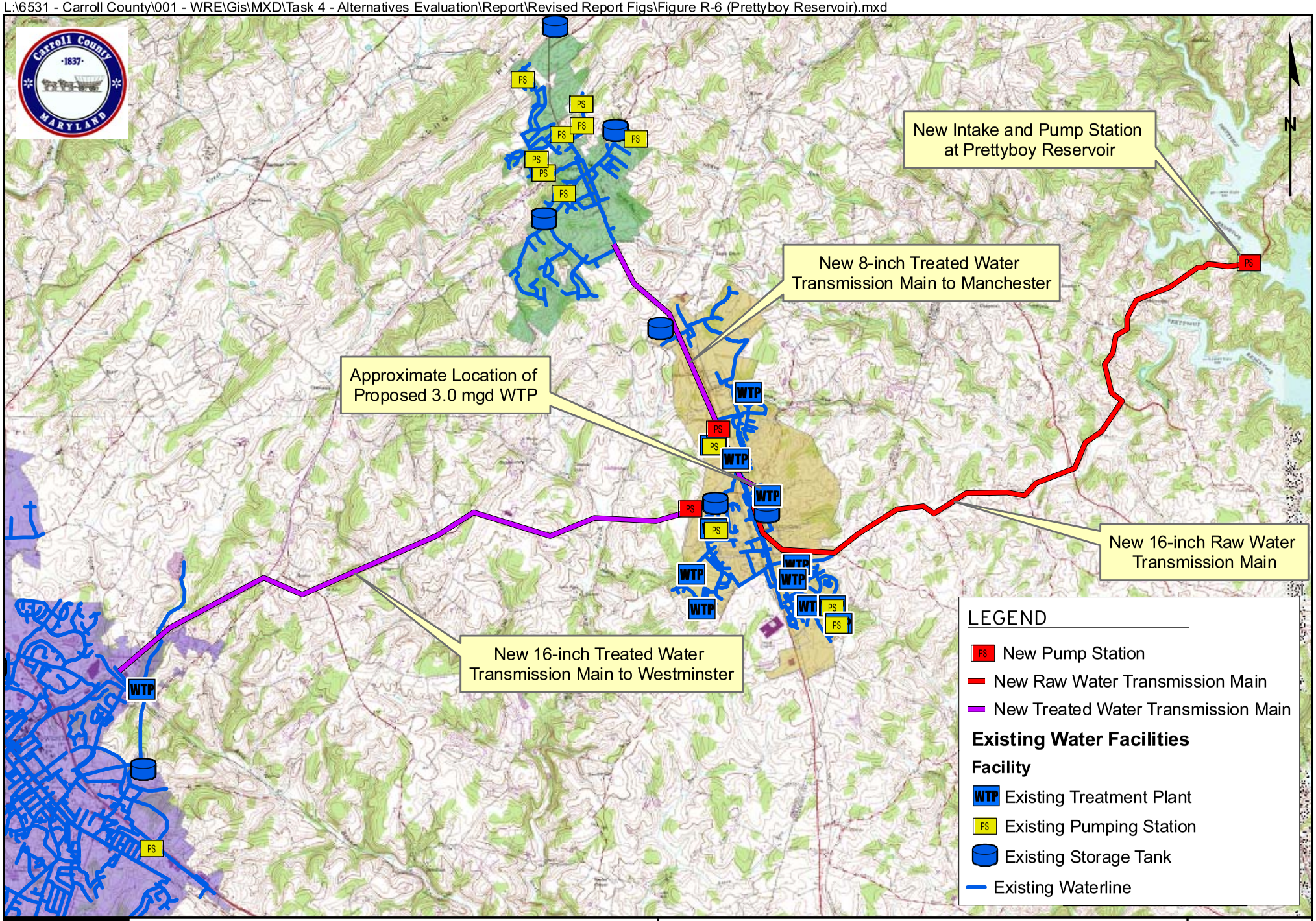

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CARROLL COUNTY, MD
ALTERNATIVES EVALUATION

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Figure R-6