

Occoquan Forest Sewage Pumping Station #36 Replacement

Occoquan Forest Sewage Pumping Station #37 Rehabilitation

Occoquan Forest Owners Association Meeting

March 02, 2021



Service Authority
Exceptional Water Service

Key Project Personnel

Service Authority (SA) Project Managers:

Alex Silver – SA

Kathy Marshal, P.E., CCM – Rummel, Klepper & Kahl, LLP (RK&K)

Contractor:

W.C. Spratt, Inc.

Design Engineer:

Whitman, Requardt & Associates, LLP

SA Capital Projects Manager

Debbie J. Maxwell, P.E., CCM

SA Deputy Director of Communications

Kathy Bentz



Agenda

- ◆ Definitions
- ◆ Contract Overview
- ◆ Location Map
- ◆ Occoquan Forest Sewage Pumping Station #36
- ◆ Occoquan Forest Sewage Pumping Station #37
- ◆ Proposed Site Details
- ◆ Site Activities and Service Authority Commitments
- ◆ Anticipated Construction Schedule
- ◆ Contacts and Q&A

Definitions

- ◆ **Sewage Pumping Station (SPS)**
 - ◆ A gravity sewer sump with a pump to lift accumulated sewage to a higher elevation
- ◆ **Force Mains (FM)**
 - ◆ A pressurized sewer line to convey wastewater from a pumping station to another service level and gravity sewer
- ◆ **Gravity Sewer Lines**
 - ◆ Sewer lines constructed to allow the wastewater to flow based on a downward slope

Contract Overview

◆ Contract SA-2107

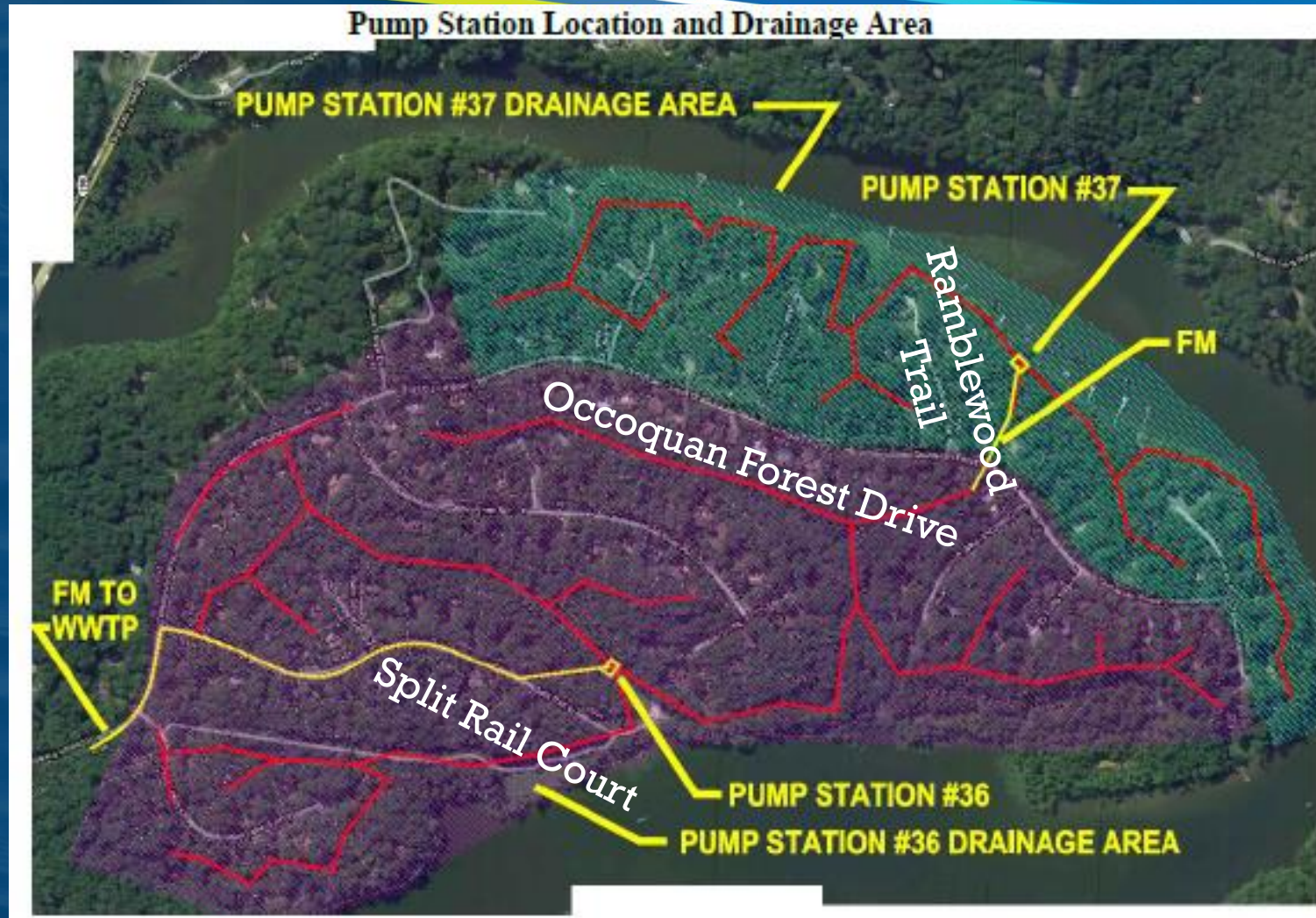
◆ Includes three (3) projects

- ◆ Occoquan Forest Sewage Pumping Station #36 and Force Main Replacement
- ◆ Occoquan Forest Sewage Pumping Station #37 Rehabilitation
- ◆ Nokesville Sewage Pumping Station and Force Main Replacement

◆ Same Engineer of Record

◆ More appealing to potential bidders

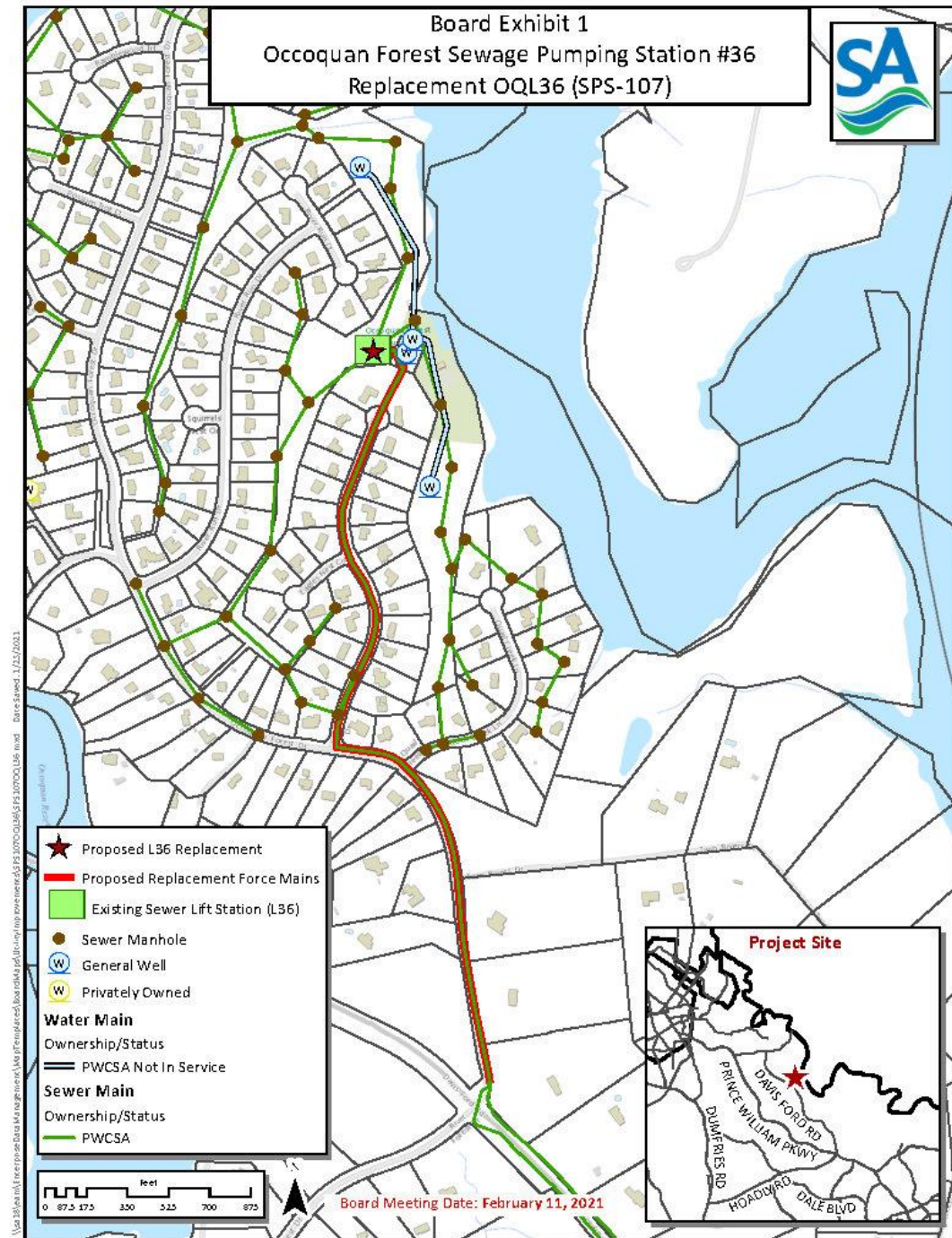
Location Map



Occoquan Forest SPS#36

History of Project Elements:

- Constructed in the early 1970s
- The sewage pumping station has reached the end of its useful life
- The force main is old cast iron piping and needs to be replaced
- The Water Treatment Facility and wells were removed from service December 23, 2015, with the extension of the water main along Davis Ford Road into Occoquan Forest



Occoquan Forest SPS #36



Occoquan Forest SPS #36 – Project Summary



- ◆ Demolition of treatment facilities
- ◆ Demolition of existing Sewage Pump Station and Wells #2 and #5
- ◆ Construction of new sewage pumping station and yard piping
- ◆ Installation of precast manufactured building
- ◆ Installation of approx. 3,733 feet of 6-inch diameter sewer force main
- ◆ Installation of a water service connection near the pavilion
- ◆ Installation of electrical service to the pavilion (complete)
- ◆ Replacement of the storm inlet at the cul-de-sac
- ◆ Mill and overlay access road
- ◆ Installation of additional gravel along access road
- ◆ Installation of additional landscaping
- ◆ Conveyance of the Water Treatment Facility site to OFOA

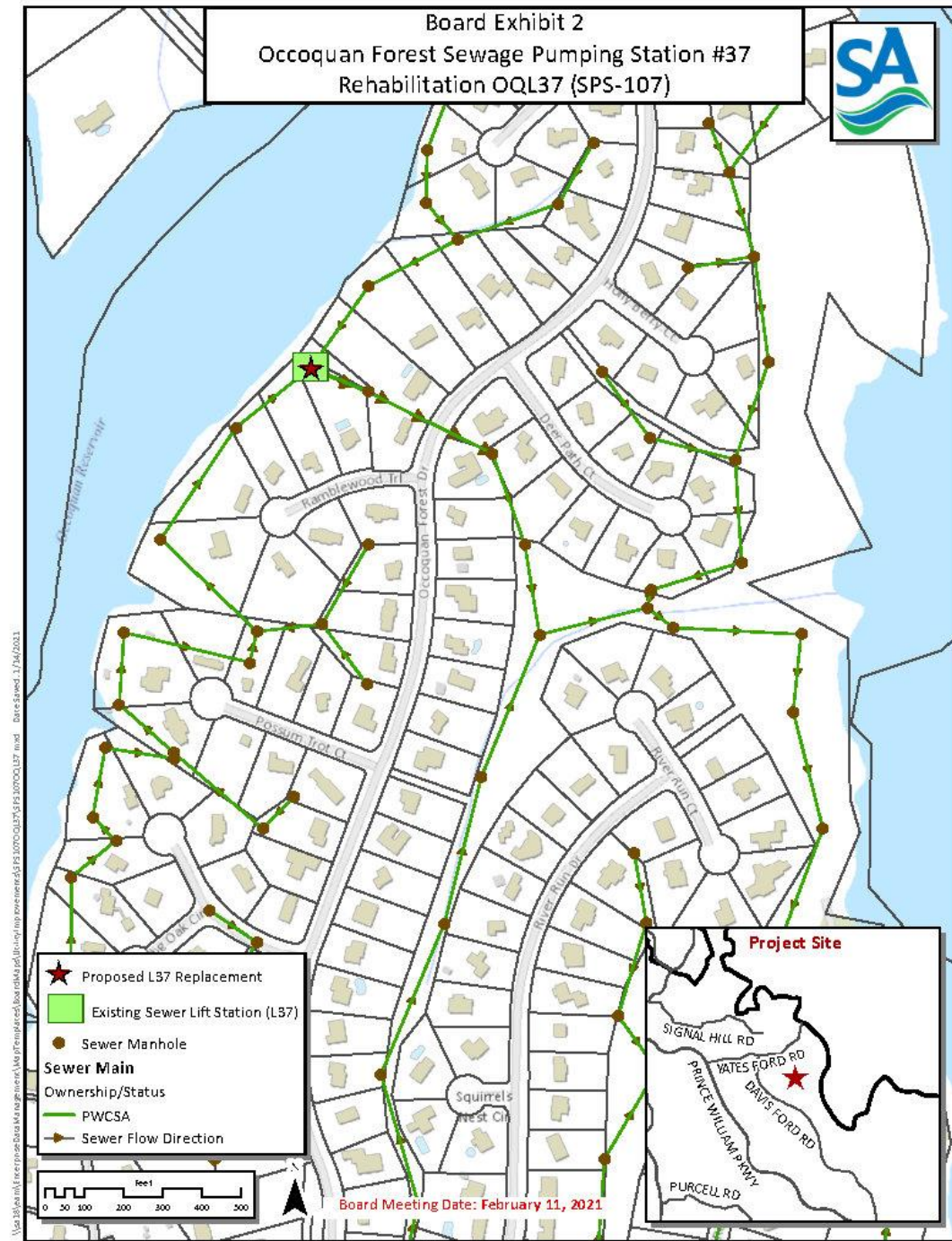
Occoquan Forest SPS#37 – Project Summary

History:

- ◆ Sewage pumping station constructed in early 1970s

Project elements include:

- ◆ Installation of precast manufactured building
- ◆ Installation of a new emergency bypass
- ◆ Installation of additional gravel along Access Road
- ◆ Installation of additional landscaping



Proposed Project Details



◆ Exterior façade

- ◆ Precast, stamped concrete panels
- ◆ Dark appearance

◆ Roof

- ◆ Pitched
- ◆ Brown Shingles

◆ Fencing

- ◆ Black vinyl coated chain-link fence (36)
- ◆ Brown vinyl coated chain-link fence (37)

◆ Landscaping

- ◆ Evergreen shrubs/trees and approved landscaping to provide some screening

◆ Easements

- ◆ All work will be conducted within existing easements

Site Activities

- ◆ The existing pumping stations must stay in operation during the construction process
- ◆ Construction activity may happen one project at a time or concurrently at the three projects
 - ◆ The Contractor will determine the final sequence of construction
- ◆ Notifications will be provided by the SA and the Contractor for any anticipated service interruptions
- ◆ Temporary parking or staging areas will be coordinated with the OFOA if needed by the Contractor prior to construction
- ◆ All activity will take place within existing SA easements

Service Authority Commitments

- ◆ Restore property affected by SA construction to original or better condition
- ◆ Maintain access for emergency services, trash, mail
- ◆ Minimize service interruptions to customers and provide advance notice of any anticipated interruptions
- ◆ Respond quickly to property owners' concerns
- ◆ Ensure daily clean-up by Contractor
- ◆ Have an SA Inspector and/or Project Representative on site daily

Anticipated Construction Schedule

◆ Project Duration

- ◆ 900 calendar days / 30 months (inclusive of the three SPSs)

◆ Anticipated Start Date

- ◆ Notice to Proceed in March 2021
 - ◆ Anticipated order of construction is SPS #36, Nokesville SPS then SPS #37
 - ◆ Once work begins at site, continuous work until SPS project is complete
 - ◆ Contractor may work off-site at times for shop drawings, material orders, etc.

◆ Anticipated End Date

- ◆ Fall 2023

◆ Hours of Operation

- ◆ 7 a.m. to 5 p.m., Monday thru Friday
 - ◆ The Contractor may request written permission to work outside these hours
 - ◆ The SA will notify OFOA of any work outside regular hours

Contacts

- ◆ Points of Contact for OFOA and resident inquiries:
 - ◆ Kathy Bentz, Deputy Director of Communications, 703.335.8944
 - ◆ Alex Silver, Project Manager, 703-393-4481
 - ◆ Email: SPS36_37_20@pwcsa.org
- ◆ Information Resources
 - ◆ Project Website: <http://www.pwcsa.org/Occoquan36-project>
- ◆ OFOA President will serve as primary Point of Contact between Service Authority and OFOA