

Graham Park Sewage Pumping Station & Force Main Improvement Project

August 8, 2017

SA Project Manager: Debbie Maxwell

Design Engineer: GHD, Inc.

Program Manager: RK&K



Service Authority
Exceptional Water Service



Agenda

- ◆ Definitions
- ◆ Purpose of the Project
- ◆ Existing and Proposed Sewage Pumping Station and Force Main
- ◆ Existing and Proposed SPS and FM Easements
- ◆ Construction Notes of Interest
- ◆ Anticipated Project Duration
- ◆ Contacts
- ◆ Q&A

Definitions

- ◆ **Sewershed** – Defines the area that contributes wastewater flows to a single point.
- ◆ **Gravity Sewer** – System of pipes and manholes that transports wastewater by gravity within a sewershed.
- ◆ **Sewage Pumping Station** – A pumping station is the collection point for a gravity sewer system and provides conveyance of the sewage to another sewershed, pumping station or a treatment plant.
- ◆ **Force Main** – System of pipes and valves that transports wastewater under pressure from a pumping station.
- ◆ **Discharge Manhole** – Vertical access shaft from the ground surface to a sewer or underground utilities.

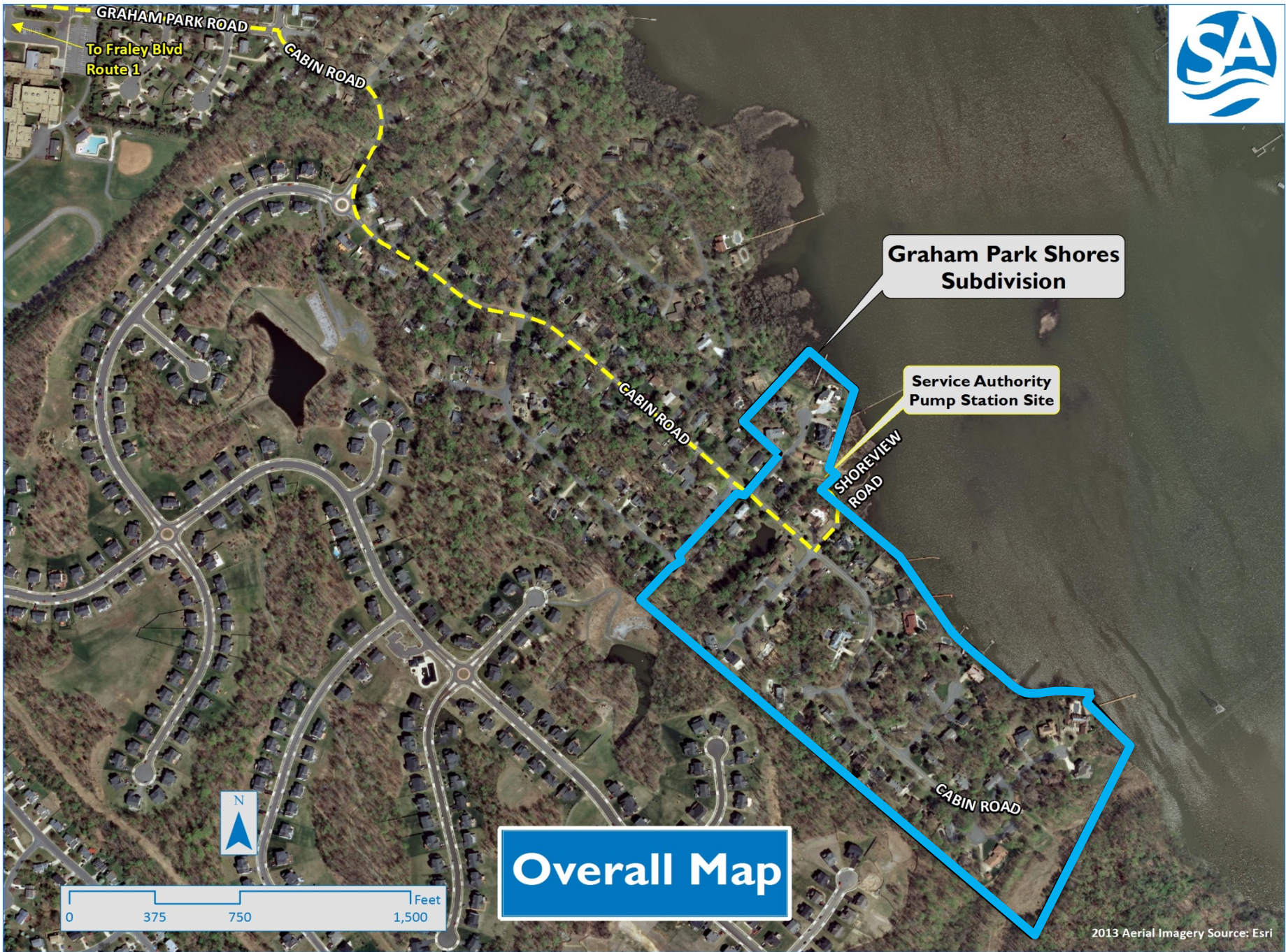
Purpose of the Project

◆ Purpose of the Project

- ◆ Replace an existing antiquated Sewage Pumping Station and Force Main.
- ◆ Improve Sewage Pumping Station reliability.
- ◆ Raise equipment above 100-year flood plain elevation.

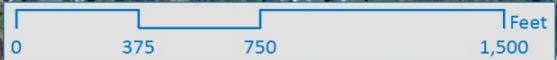
◆ Benefits of the Project

- ◆ Improve Safety Conditions.
- ◆ Maintain the SA's Commitment to Service Reliability.



**Graham Park Shores
Subdivision**

**Service Authority
Pump Station Site**



Overall Map



Graham Park SPS

Holland Shores LLC
GPIN: 8288-46-2720

Access Road

LOT 7, BYRD PROPERTY
18499 RUNNING PINE CT

LOT 8, STANG PROPERTY
18427 CABIN RD.

LOT 9, MORENO PROPERTY
18428 CABIN RD.

ZINN PROPERTY
18501 CABIN RD.

Pump Station Location



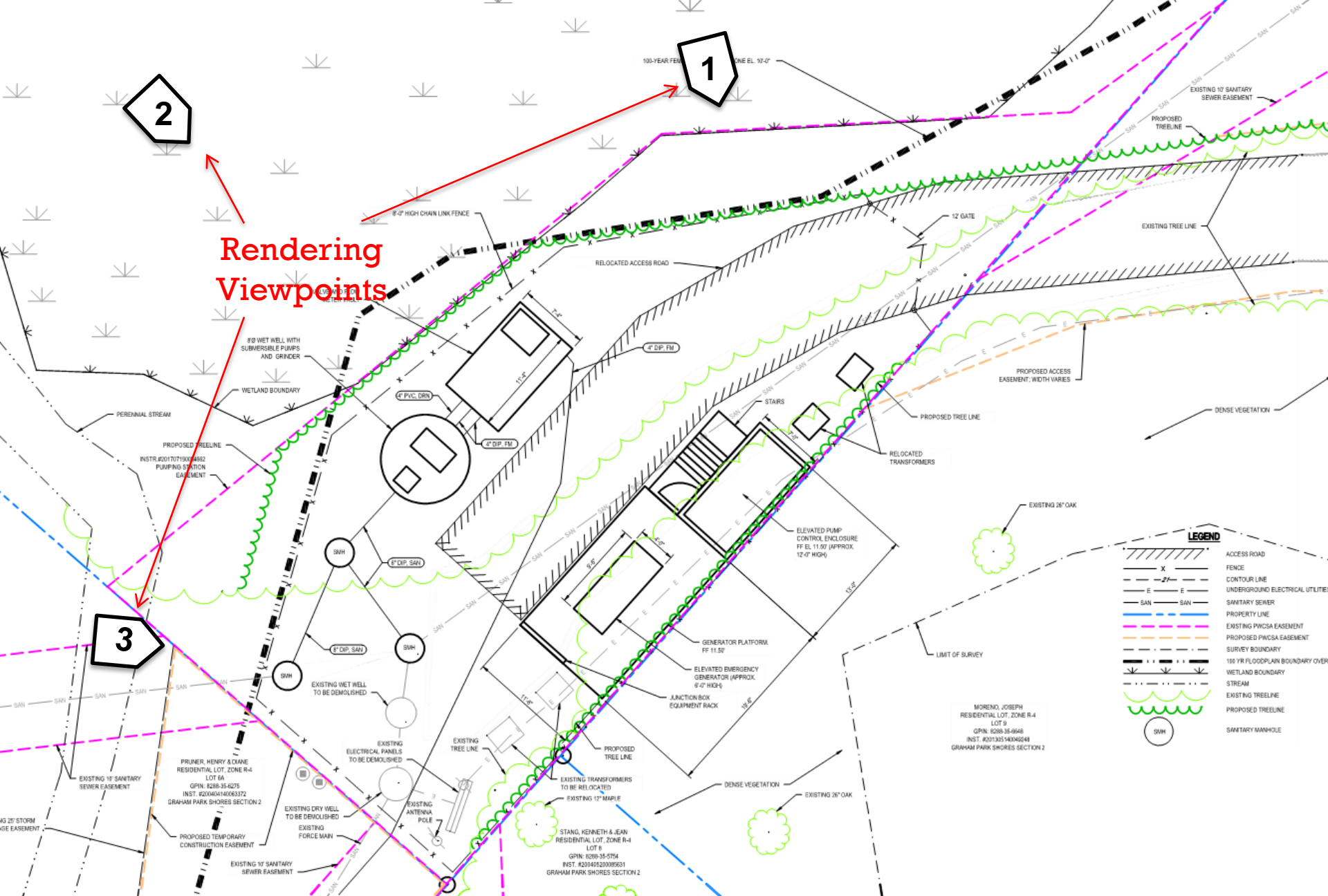
18507



BALDOR
GENERATORS

NOTICE
NO
TRESPASSING

Rendering Viewpoints



LEGEND

| | |
|--|------------------------------------|
| | ACCESS ROAD |
| | FENCE |
| | CONTOUR LINE |
| | UNDERGROUND ELECTRICAL UTILITIES |
| | SANITARY SEWER |
| | PROPERTY LINE |
| | EXISTING PWCSA EASEMENT |
| | PROPOSED PWCSA EASEMENT |
| | SURVEY BOUNDARY |
| | 100 YR FLOODPLAIN BOUNDARY OVERLAY |
| | WETLAND BOUNDARY |
| | STREAM |
| | EXISTING TREELINE |
| | PROPOSED TREELINE |
| | SANITARY MANHOLE |

Rendering Viewpoint 1



Rendering Viewpoint 2



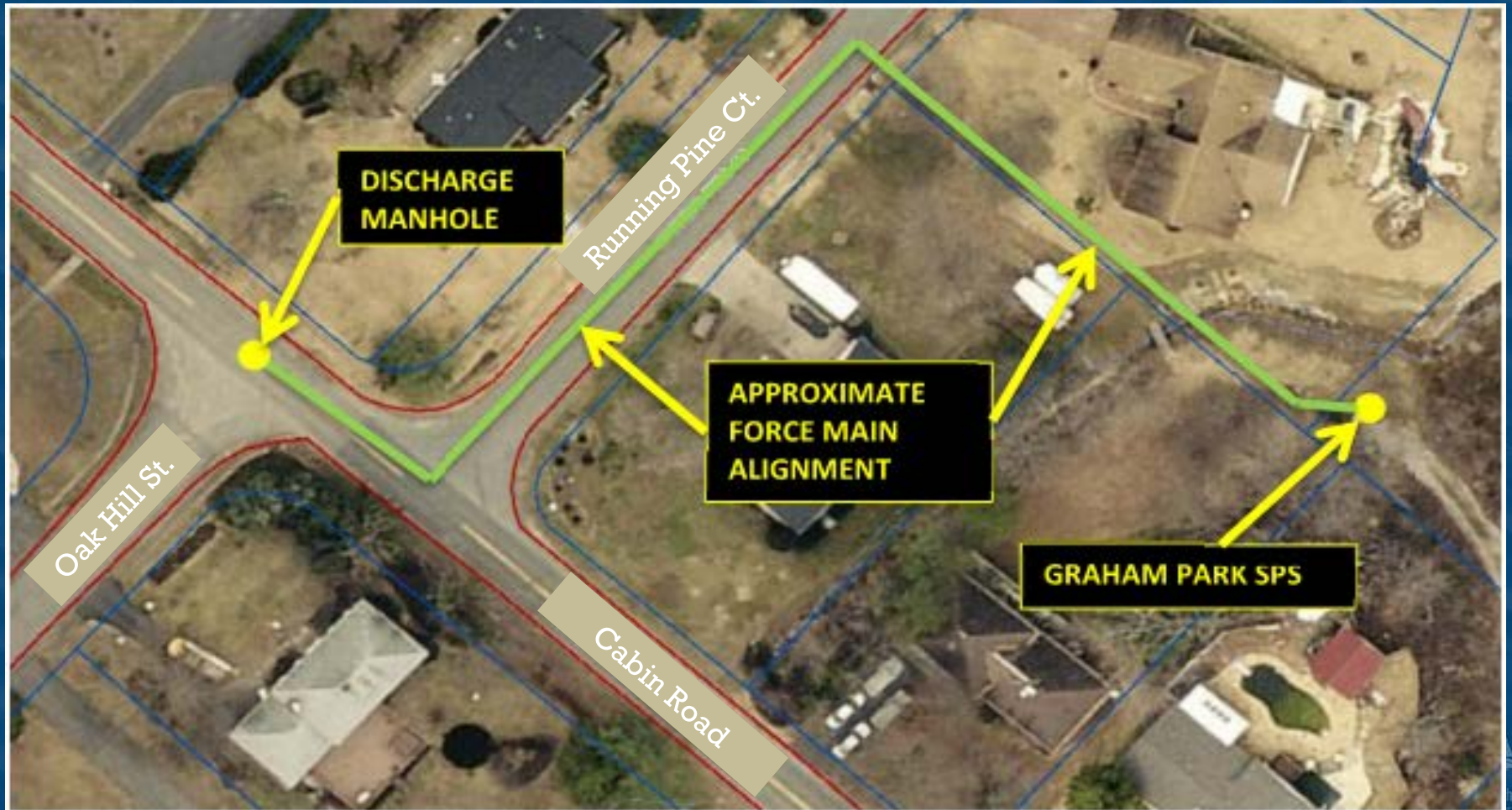
Rendering Viewpoint 3



Proposed Sewage Pumping Station Building



Proposed Force Main Alignment



Existing Easements



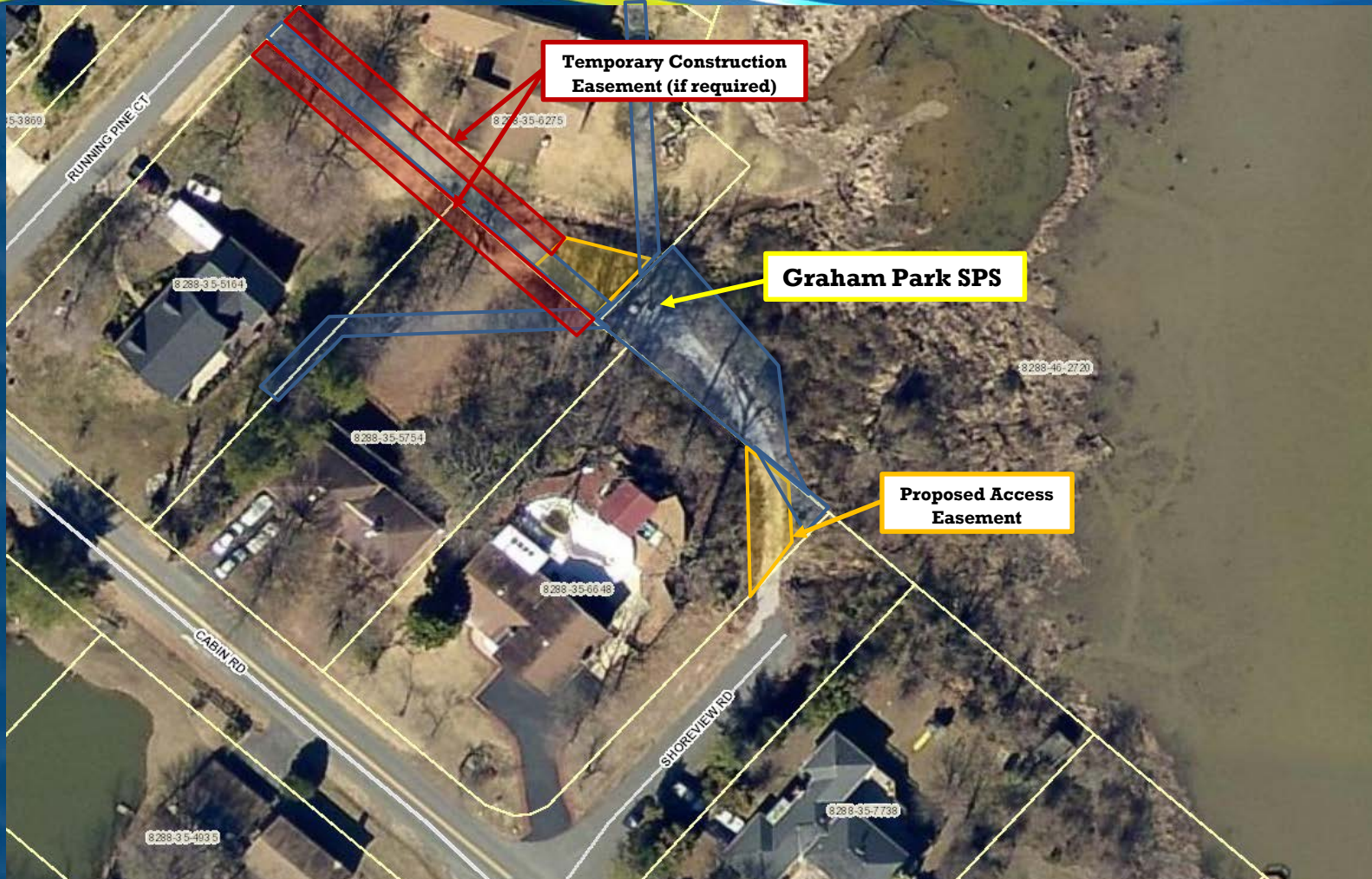
Note - Easement extents shown are approximate

Proposed Pumping Station Easements



Note - Easement extents shown are approximate

Proposed Force Main Easements



Note - Easement extents shown are approximate

Notes Of Interest During Construction

- Ensure unimpeded emergency, school bus, trash, mail and other services.
- The SA will restore roads to their existing or better conditions if disturbed by construction activities.
- Daily clean-up along the access roads to the Pumping Station by the Contractor will be required.
- Temporary parking areas will be negotiated by the Contractor with property owners and VDOT prior to construction.
- An SA Inspector will cover this project and others nearby on a daily basis.

Anticipated Project Schedule

- Public Facility Review Process:
 - PFR Hearing - September 20, 2017
- Design and Permitting Timeframe:
 - December 2015 – November 2018
- Anticipated Start of Construction:
 - Spring 2019
- Anticipated Construction Duration:
 - Approximately 1 year

Contacts

- ◆ Community Relations Liaison
 - ◆ Marlo Thomas Watson
 - ◆ 571.285.8127
 - ◆ Email: grahamparksp@pwcsa.org
 - ◆ Project Specific Website:
<http://www.pwcsa.org/graham-park-sewage-pump-station>

Discussion

Any Questions?