

BROAD CREEK AUGMENTATION PROJECT Conveyance System North Contract Community Meeting March 4, 2015

Introduction





John Beitler, PE Project Manager



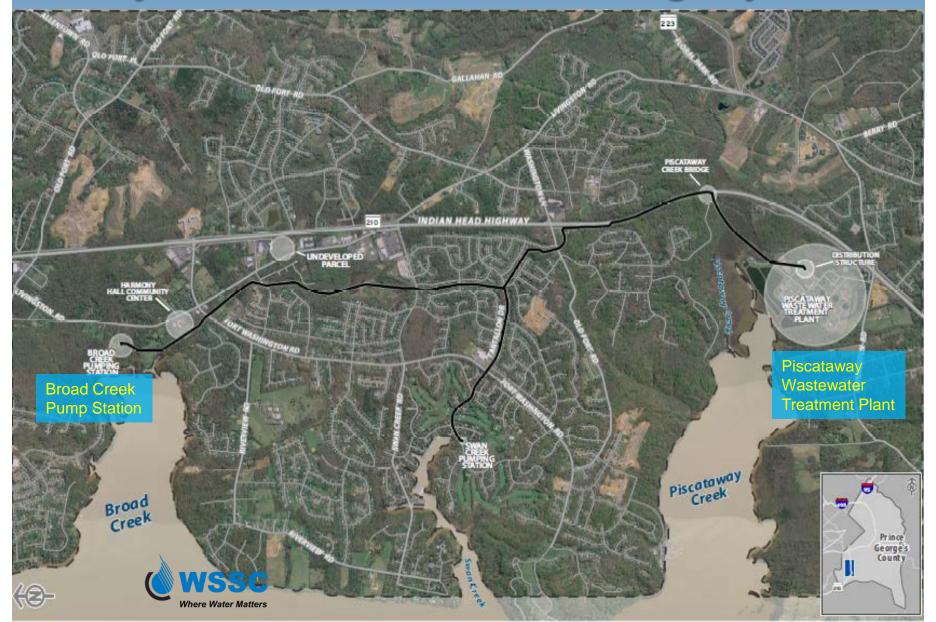
Dennis Funk, P.E. Gannett Fleming

Presentation Overview

- Project Background
- Status
- Conveyance System North Contract
- Questions and Discussion



Project Overview - Existing System



Project Background

- Consent Order December 2005
- Facility Plan Study to address overflows
- Consent Decree 55 MGD capacity
- Broad Creek WWPS Augmentation Design Hatch Mott MacDonald / Gannett Fleming JV





Broad Creek Pump Station Site



North Pipeline Contract

Design Notice to Proceed September 2009

Design Studies Complete April 2010

Final Design Complete June 2012

Final Permitting
 February 2014

Bids Received February 2015

Notice to Proceed (estimate)
 May 2015

Construction Duration 2 years



Conveyance System Alignment



Pipeline Lengths

48" Force Main
15,045 feet
60" Gravity Sewer
42" Pressure Sewer
24" Force Main
2,737 feet

Tunnel Lengths

 Tunnel 1&2
 2,722 feet

 Tunnel 3
 773 feet

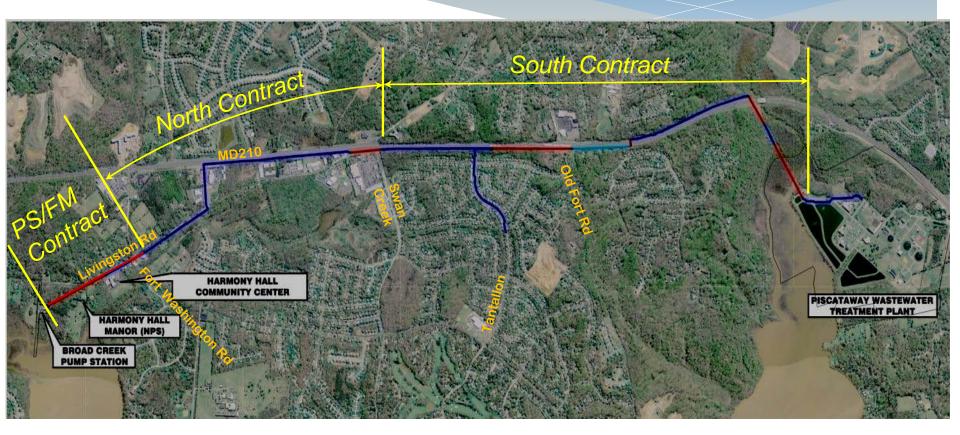
 Tunnel 4N/4S
 1,952 feet

 Tunnel 6&7
 2,112 feet

 Tunnel 9
 547 feet



Conveyance System Contracts



PS & Force Main

48" Force Main 2,889 feet Tunnel 1&2 2,722 feet

North Contract

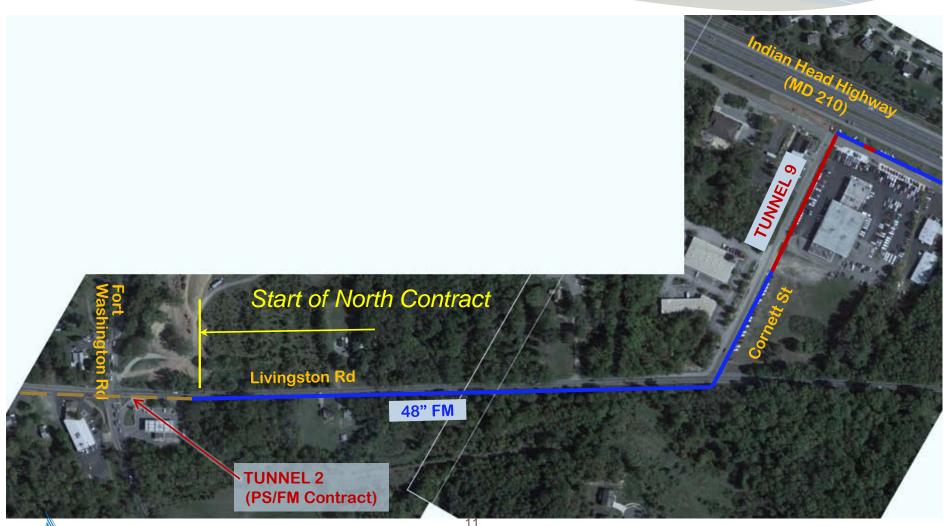
48" Force Main 7,367 feet Tunnel 3 773 feet 547 feet

South Contract

48" Force Main 4,788 feet 60" Gravity Sewer 1,460 feet 42" Pressure Sewer 6,050 feet 24" Force Main 2,737 feet



North Contract Alignment



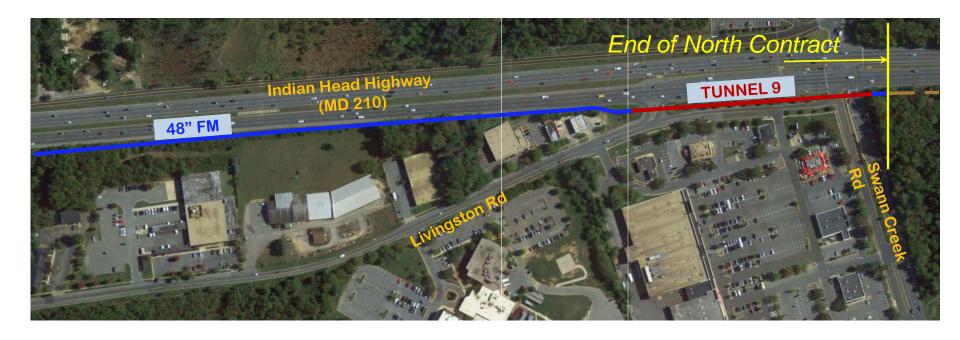


North Contract Alignment





North Contract Alignment





Pipeline Construction Impacts - Traffic

Route 210

- Lane closures permitted during off-peak hours
- 9 am to 3 pm under normal operations
- Traffic barriers to protect work areas
- Construction Access locations move with phases

Livingston Road

- Flagging operations for lane closures
- 9:00 am to 3:30 pm
- Construction Access locations move with phases



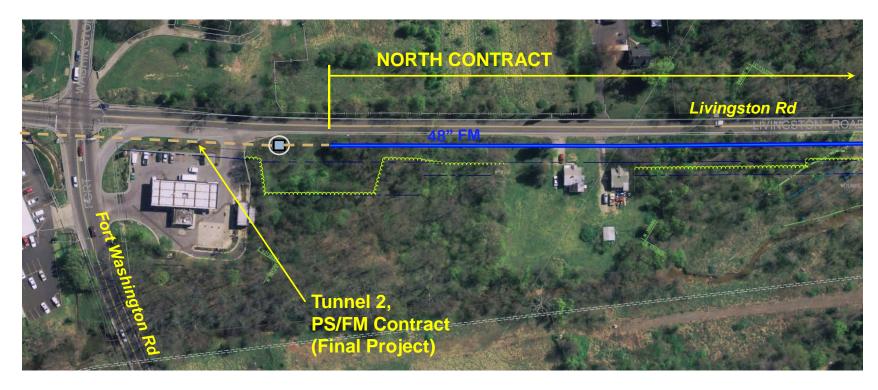
Pipeline Construction Impacts

Construction Activities

- Clearing
- Pipeline Construction
- Tunneling
 - Cornett Street
 - Livingston Road/Swann Creek
- Buried Vaults at Tunnel Shafts



North Contract – Livingston Road



- Traffic impact on Livingston Rd
- Clearing for work area



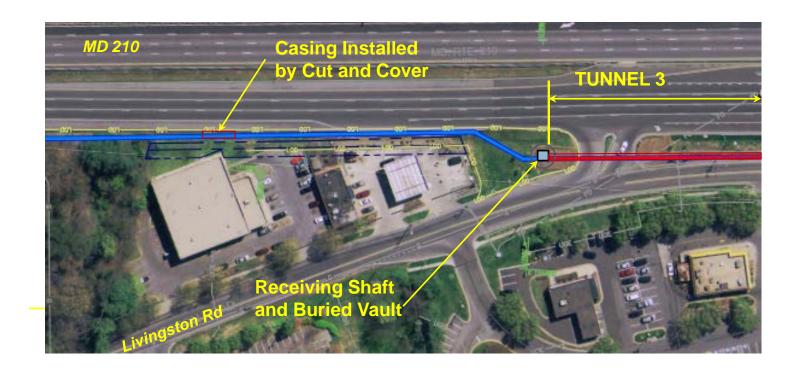
North Contract – Construction Impacts Cornett Street



- Tunnel Equipment setup at Launch Shaft
- Receiving Shaft will impact roadway on Frontage Road₁₇



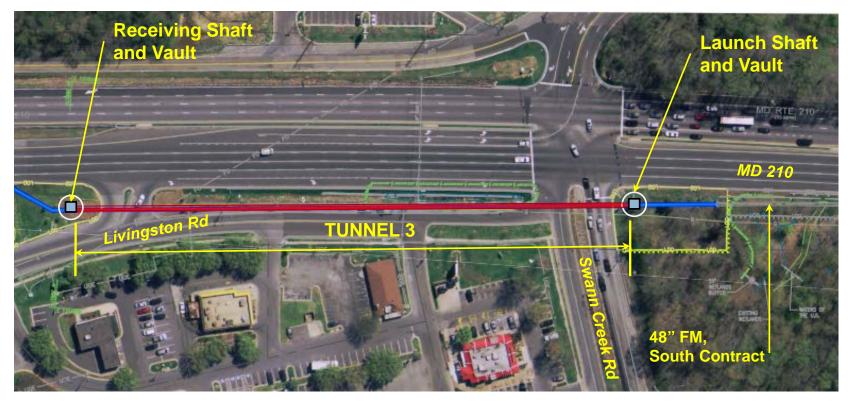
North Contract – Construction Impacts Livingston Rd / MD 210



- Tunnel Receiving Shaft Construction
- Access from Livingston Road



North Contract – Construction Impacts Swann Creek Road



- Tunnel Equipment setup at Launch Shaft
- Clearing under South Contract / Restoration under North Contract



North Contract – Traffic Impacts MD 210



- Lane Closures during off-peak hours
 - 9 am to 3 pm
- Construction traffic entering and exiting
- Work is behind concrete barrier



Project Status - Bid/Construction

Piscataway WWTP Headworks and Storage Improvements

Under Construction – Estimated Completion Date: May 2016

South Conveyance System

Bid Awarded August 2014 – Estimated Completion: May 2017

North Conveyance System

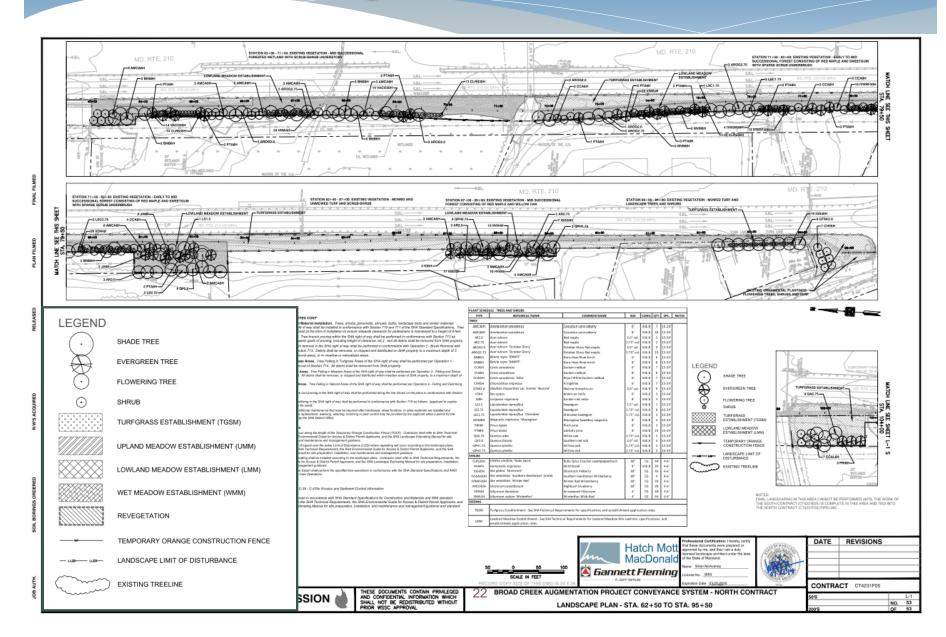
 Bids Received February 2015 – Estimated Completion: May 2017

Broad Creek Pump Station and Tunnel

 Working with National Park Service for Access Agreement. Bid Estimated in mid-2015.



Landscaping – Post Construction



Comments and Questions?

www.wsscwater.com/broadcreek

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Thank you for attending tonight's meeting



