Chain Bridge Road Gravity Sewer Capacity Improvements Community Meeting

(Phase 2 of Langley School PS-FM project)

Department of Public Works and Environmental Services Working for You!



Introductions

- Introductions
 - Lizzy Merin
 - Engineer II
 - Project Manager for this project for Fairfax County
 - Black and Veatch (Designer)
 - Water/Wastewater Engineering Firm
 - David Hill, Professional Engineer
 - Ryan Perigard, Project Engineer
 - Fort Myer (Contractor)
 - To make sure we can answer all your questions, please type them in the chat throughout the presentation!



Langley School PS-FM Project Phases

- Phase one
 - new force main and gravity sewer on Langley Lane
- Phase two Chain Bridge Road Gravity Sewer Capacity Improvements
 - consists of updating the pumps at the pump station
 - gravity sewer improvements along Chain Bridge Road and Ballantrae Lane
 - the existing Force Main shall be abandoned in place and filled with concrete
- Phase three
 - consists of replacing the pump station and electrical buildings

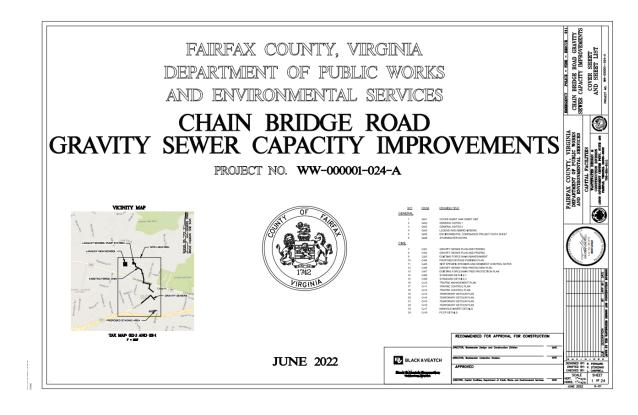




Purpose of Community Meeting

Inform the community about the upcoming project Phase 2- Chain Bridge Road Gravity
 Sewer Capacity Improvements

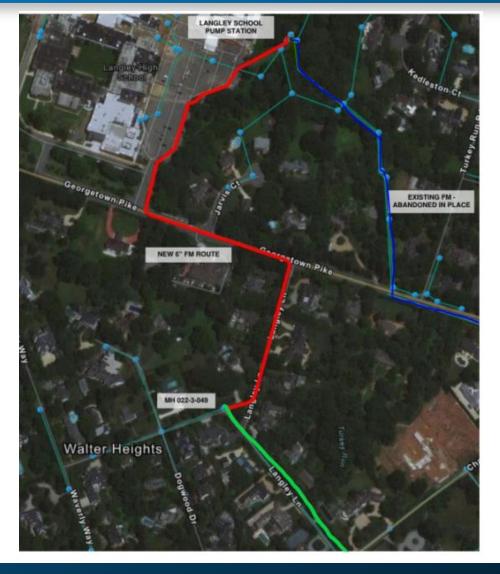






New Forcemain & Gravity Sewer was installed in Phase 1

- The New Forcemain (Pressure Pipe)
 - New 6" Ductile Iron Pipe (80-year life)
 - 4—6 feet below the ground
- New Gravity Sewer along Langley Lane
 - 12" PVC pipe (80-year life)
- New Asphalt Replacement for:
 - Pump station Access Road
 - High School Entrance
 - Georgetown Pike
 - Langley Lane (Full Width)





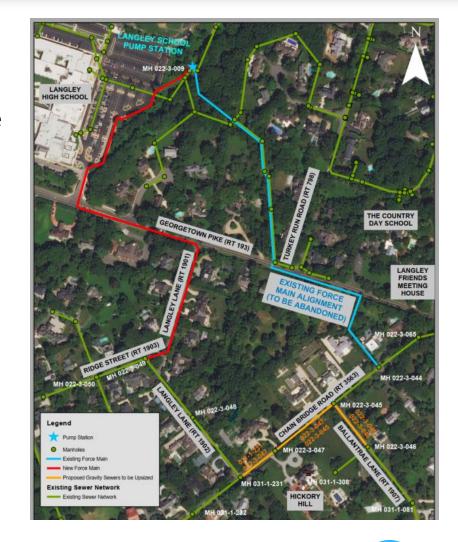
Overall Summary Phase 1 and 2 Combined

Phase 1

Implemented the new force main and gravity sewer on Langley Lane

Phase 2

- Will replace the orange gravity sewers on Chain Bridge Road and Ballantrae Lane
- Abandon the existing force main by filling with concrete
- And update the pumps at the pump station
- New 12" PVC Pipe (80-year life)
- Same Location



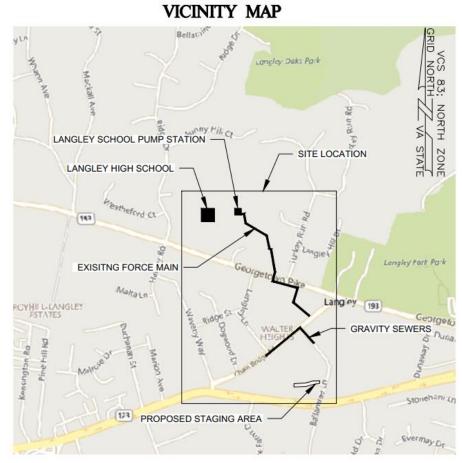




Project Site



Staging area on Old Merlin's Lane



TAX MAP: 022-3 AND 031-1 r = 1000



Chain Bridge Road Gravity Sewer Impacts

- Lateral reconnections
- Newly paved street
- Existing forcemain abandoned in place and filled with concrete to prevent pipe settlement- all work to take place in the VDOT ROW and at the PS.
- Staging area on Old Merlin's Lane
- Temporary sewer bypass during working hours
- Traffic detours



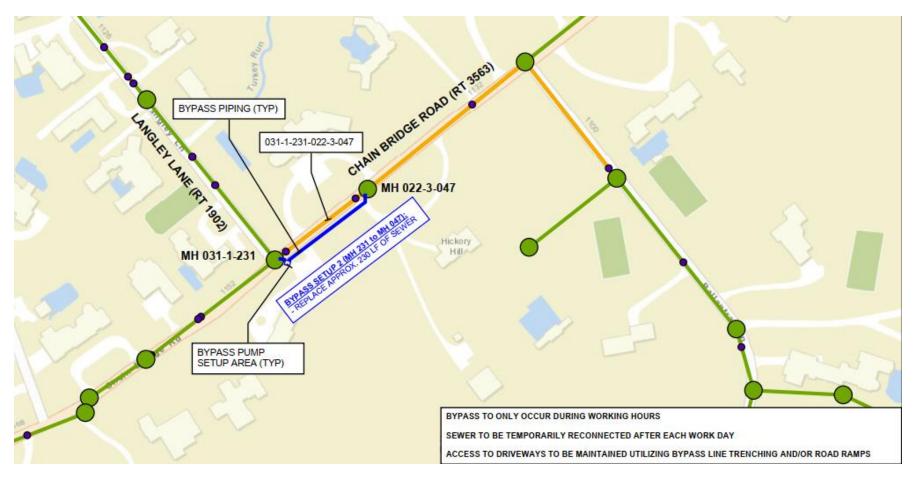


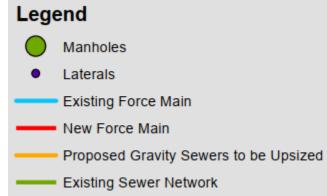
Chain Bridge Road Sewer Bypass Plan





Chain Bridge Road Sewer Bypass Plan







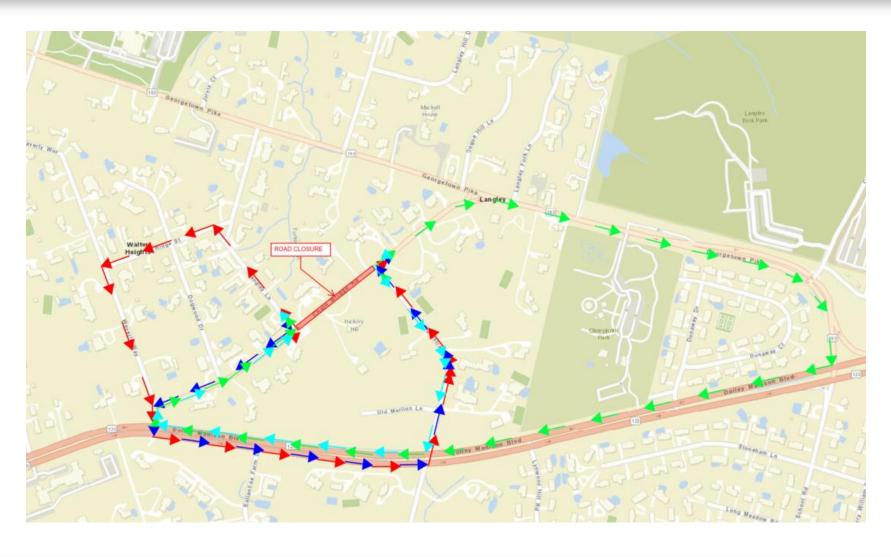


Community Impacts

- Construction of Gravity Sewer in roadway:
 - Contractor may use steel plates, or other means to maintain access to all property entrances.
 - A detour plan will restrict non-local traffic for full road closures during working hours. Some single lane closures will also be used.
 - Contractor to work with homeowners to facilitate driveway access as work progresses.



Traffic Detours - work on Chain Bridge

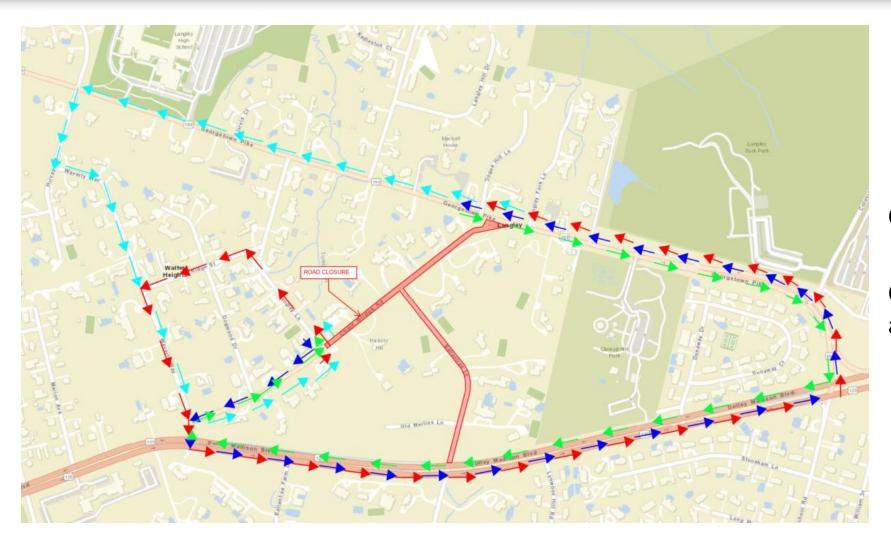


Closed to Thru-Traffic





Traffic Detours - work on Chain Bridge and Ballantrae

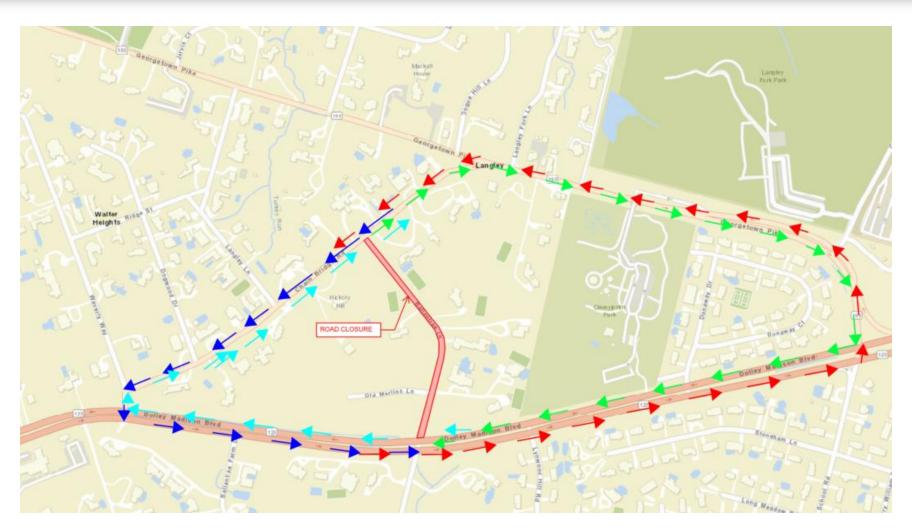


Closed to Thru-Traffic





Traffic Detours - work on Ballantrae

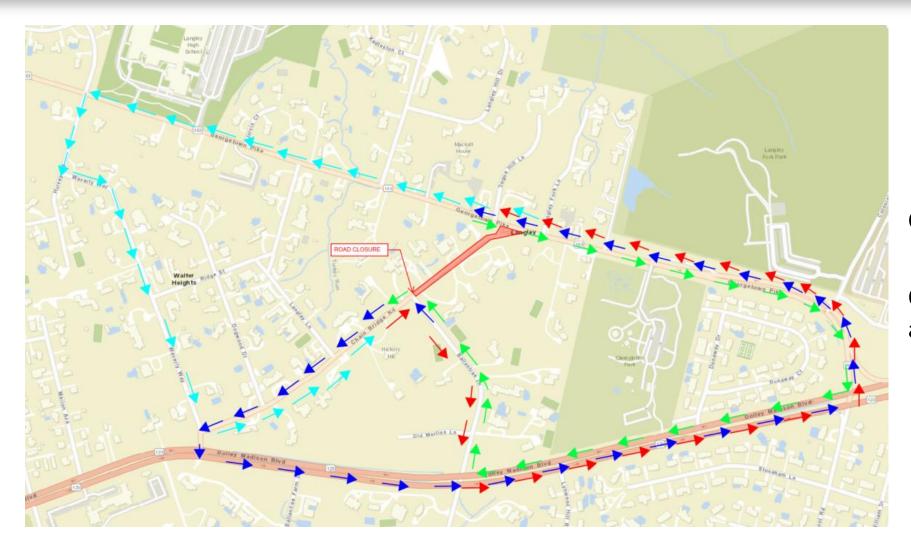


Closed to Thru-Traffic





Traffic Detours - Rehabilitation of Manhole #44



Closed to Thru-Traffic





Project Schedule

Project Schedule





Project Timeline

TIMELINE

Phases	Date	
Public Input and Open Discussion on Phase 1	May 2021	~
Begin Construction on Phase 1	June 2021	✓
Public Input and Open Discussion on Phase 2	June 2022	✓
Begin Construction on Phase 2	July 2022	

Start Construction in Chain Bridge Road July 2022. Estimated substantial completion early 2023.



Questions & Answers



Thank you for listening!



Additional Information

For additional information, please contact

Lizzy Merin

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https://www.fairfaxcounty.gov/publicworks/capital-projects/langley-school-pump-station-and-force-main-project

- Future meeting notices will be posted here
- We will post this presentation on the website

www.fairfaxcounty.gov/publicworks

