



Vienna Town Council

Stormwater Management Program Update

September 17, 2018



Tonight's Presentation

- Transitioning to a new stormwater permit – accomplishments and future challenges
 - Closing out the current permit
 - Highlights of new permit requirements
 - Phase II Chesapeake Bay TMDL Action Plan
- DEQ audit of the Town's program



Current Permit Wrap-Up

Permit was set to expire on June 30; administratively continued until new permit finalized

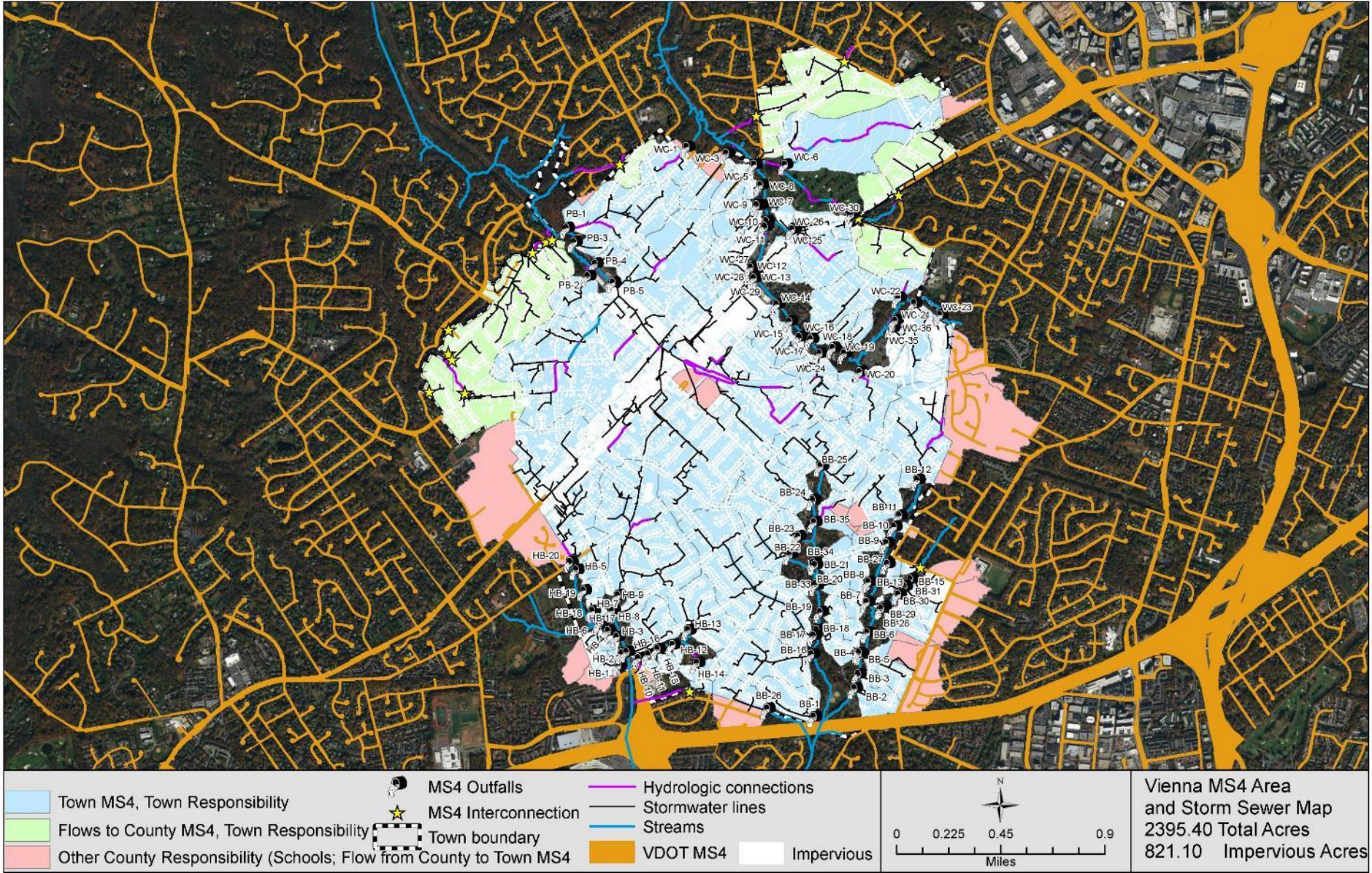
Public Education and Outreach

- Incorporated water quality messages (fertilizers, dog waste, etc.) into quarterly water bills
- Sent educational materials about the Town's "pooper scooper" law to all dog license holders
- Sent pollution prevention materials to all Town restaurants
- Continued participation in regional Clean Water Partners

Illicit Discharge Detection and Elimination

- Updated storm drain system map with detailed information on drainage areas





A presentation by Wood.

Current Permit Wrap-Up

Illicit Discharge Detection and Elimination

- Inspected outfalls 242 times to check for illicit discharges
- Investigated 33 suspected/actual illicit discharges:
 - Mud/sediment
 - Petroleum sheen
 - Car wash water
 - Sanitary sewer overflows/cross connections
 - Paint
 - Tile saw water (contractor)
 - Swimming pool soda ash

Stormwater Management Facilities

- 51 new private facilities installed



Current Permit Wrap-Up

Pollution Prevention

- Developed new stormwater pollution prevention plan (SWPPP) for Northside Property Yard
- Developed standard operating procedures for municipal operations
- Annual training for Town Public Works and Parks and Recreation staff
- Refresher training to Town Police on spill response
- Prevented ~1,192 tons of debris from entering local streams through street sweeping. This equals:
 - 4,173 pounds of nitrogen
 - 1,669 pounds of phosphorus
 - 500,799 pounds of sediment



Current Permit Wrap-Up

TMDL Action Plans

- Developed plans to address water quality issues in Difficult Run and Accotink Creek
- Bacteria plan Difficult Run and Accotink Creek
- Sediment plan for Difficult Run
- PCB plan for Potomac River (only Accotink Creek watershed portion of the Town)



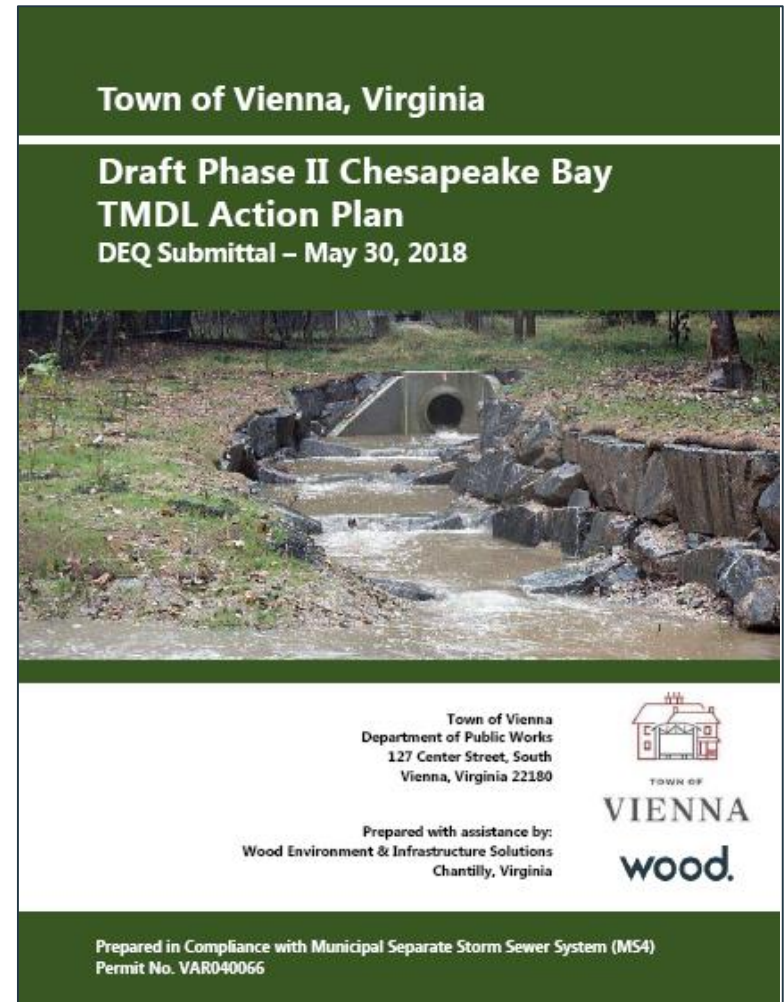
New Permit Highlights

- Requirements are similar but more prescriptive (not necessarily more stringent)
- Examples:
 - Public education and outreach: still select three high priority pollutants to address, but strategies must be drawn from a pre-determined list in the permit
 - Local TMDLs: localities are presented with a menu of action items depending on the pollutant that needs to be addressed



Draft Phase II Bay TMDL Action Plan

- The Town successfully implemented Phase I requirement to meet 5% of pollutant reduction targets
- Phase II ramps up requirement to 40% by 2023
- Final, Phase III will require 100% by 2028
- Draft Phase II was submitted on June 1st
- Final Phase II due June 30, 2019



Town Pollutant Reduction Strategies

- Redevelopment since 2009 that results in a decrease in pollutants
- More stringent regulation of land disturbing activities under one acre
- Street sweeping
- Shared credit through cooperative agreement with Fairfax County
 - 3.5% of any project implemented using the Stormwater Service District Fee (ex. stream restorations)

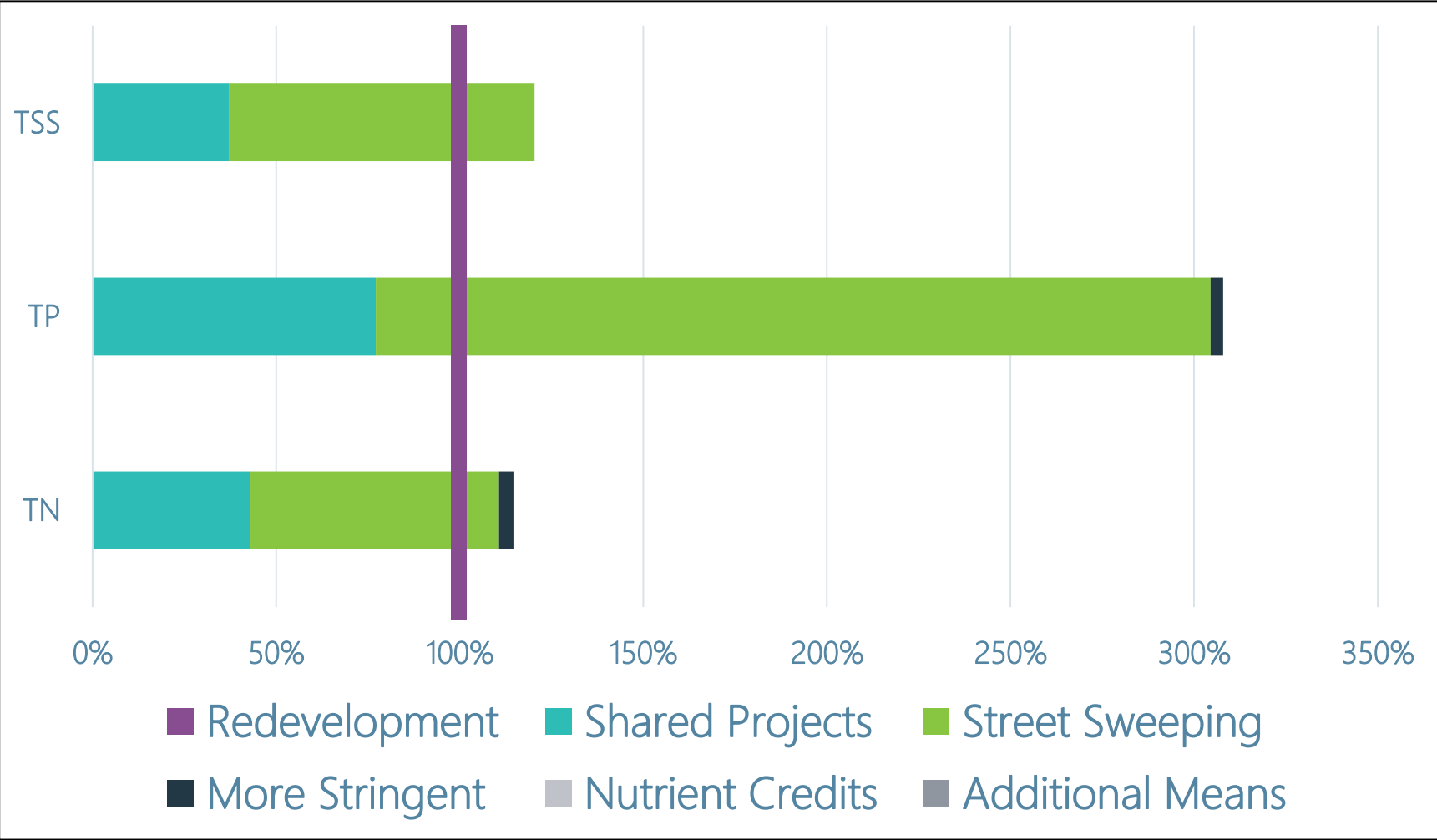




Vienna Community Center

12.4 lbs/year nitrogen; 2.15 lbs/year phosphorus;
1,271 lbs/year sediment

Progress Toward 100% Target as of FY17



What's Ahead

- EPA and states are developing updated (Phase III) Watershed Implementation Plans
- Includes changes in pollutant targets based on:
 - Improved technology and refined data
 - Revised population growth forecasts
 - Impacts of climate change
- Virginia's Phase III WIP is scheduled to be finalized in February 2019
- Could affect the Town's Phase III plan
- Upcoming chloride requirements with 2019 permit cycle
 - Includes salt management training and public outreach

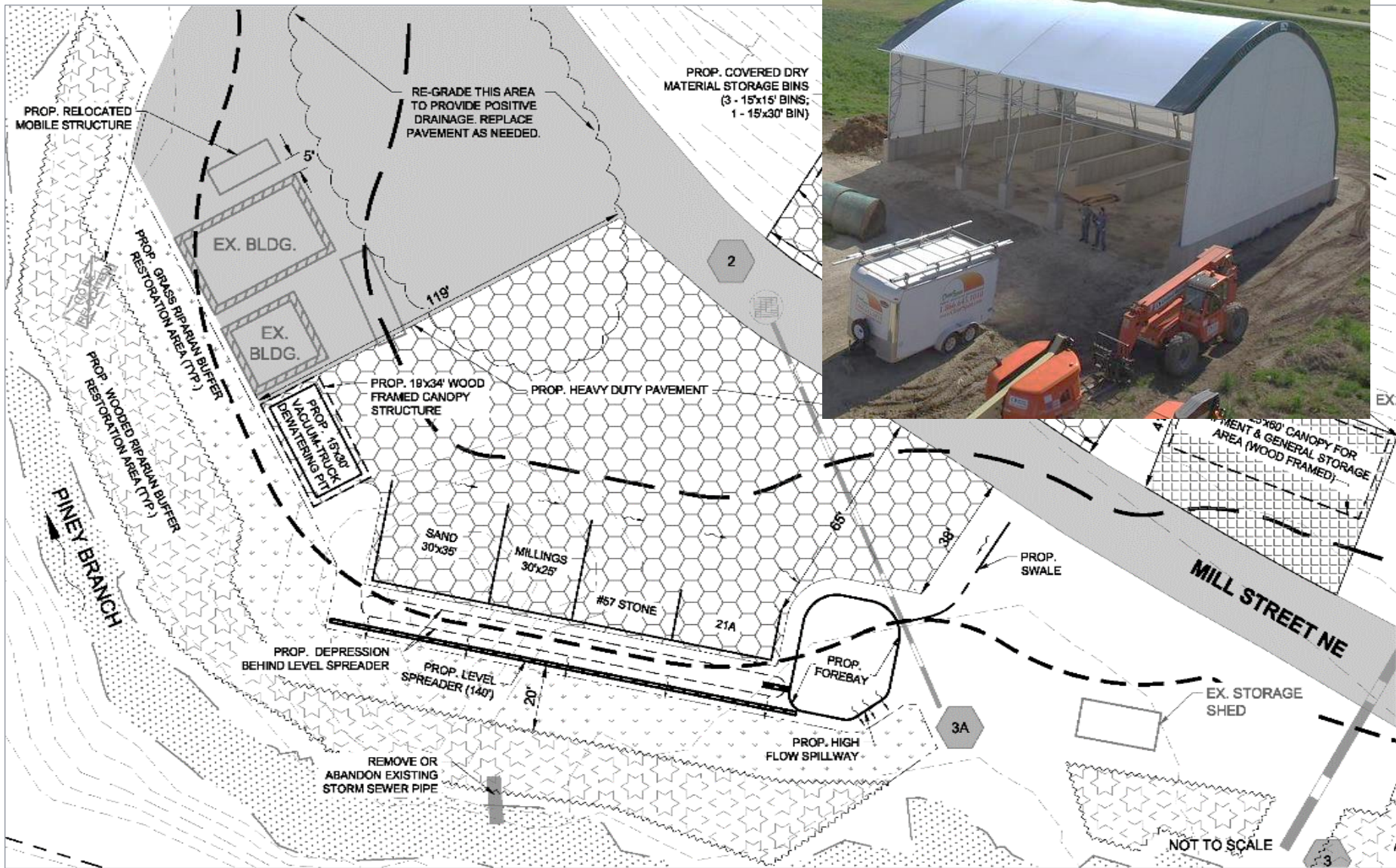


DEQ Audit of the Town's Program

- Audit conducted by DEQ on August 9, 2017
- Included large data request on all aspects of the program
- Audit was one day and included:
 - Discussion of overall program management
 - Review of land development process
 - Mapping and BMP database demonstration
 - Mock inspection of stormwater management facilities
 - Visit to the Northside Property Yard
- Corrective action:
 - Cover or contain all piles of millings and soil at the Northside Property Yard







Thank You!

