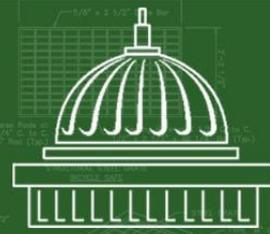




SPRINGETTSBURY TOWNSHIP & FIRST CAPITAL ENGINEERING, INC.



Springettsbury Township MS-4 Public Meeting

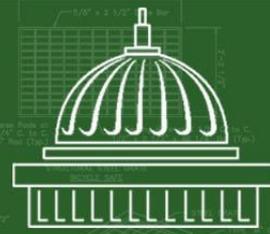


December 16, 2013

**Presented by:
William Gralski, PE & Brita Runkle, Planner**



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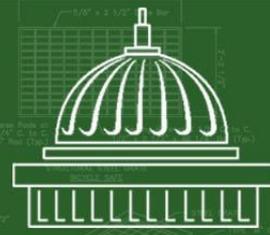


Meeting Agenda

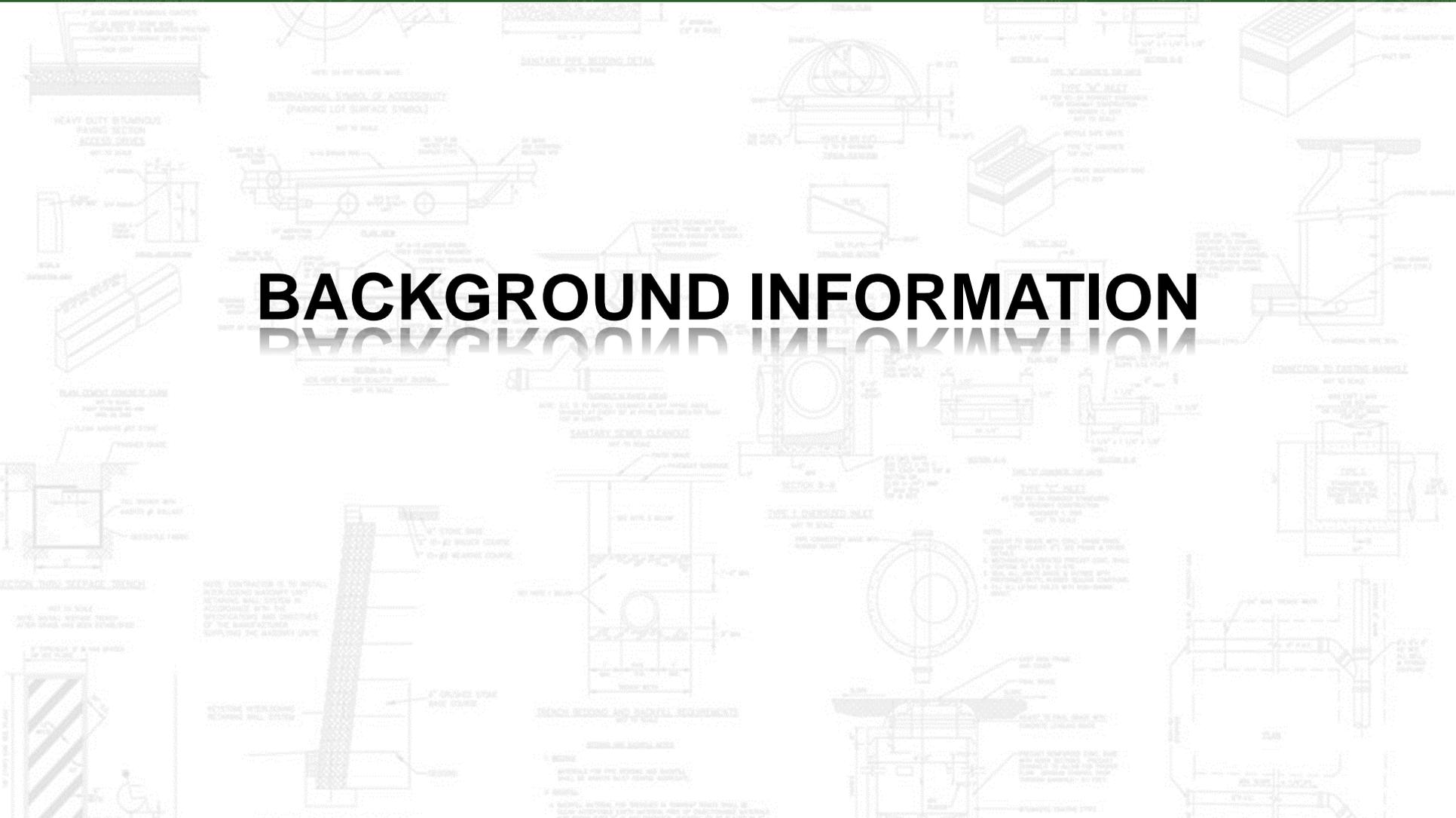
- 💧 Background Information
- 💧 Description of the MS-4 Program
- 💧 Recent Changes in the MS-4 Program
- 💧 MS-4 Program in Springettsbury Township
- 💧 Public Input



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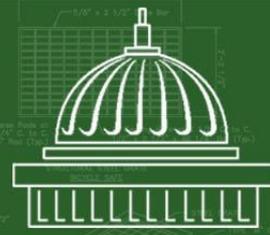


BACKGROUND INFORMATION

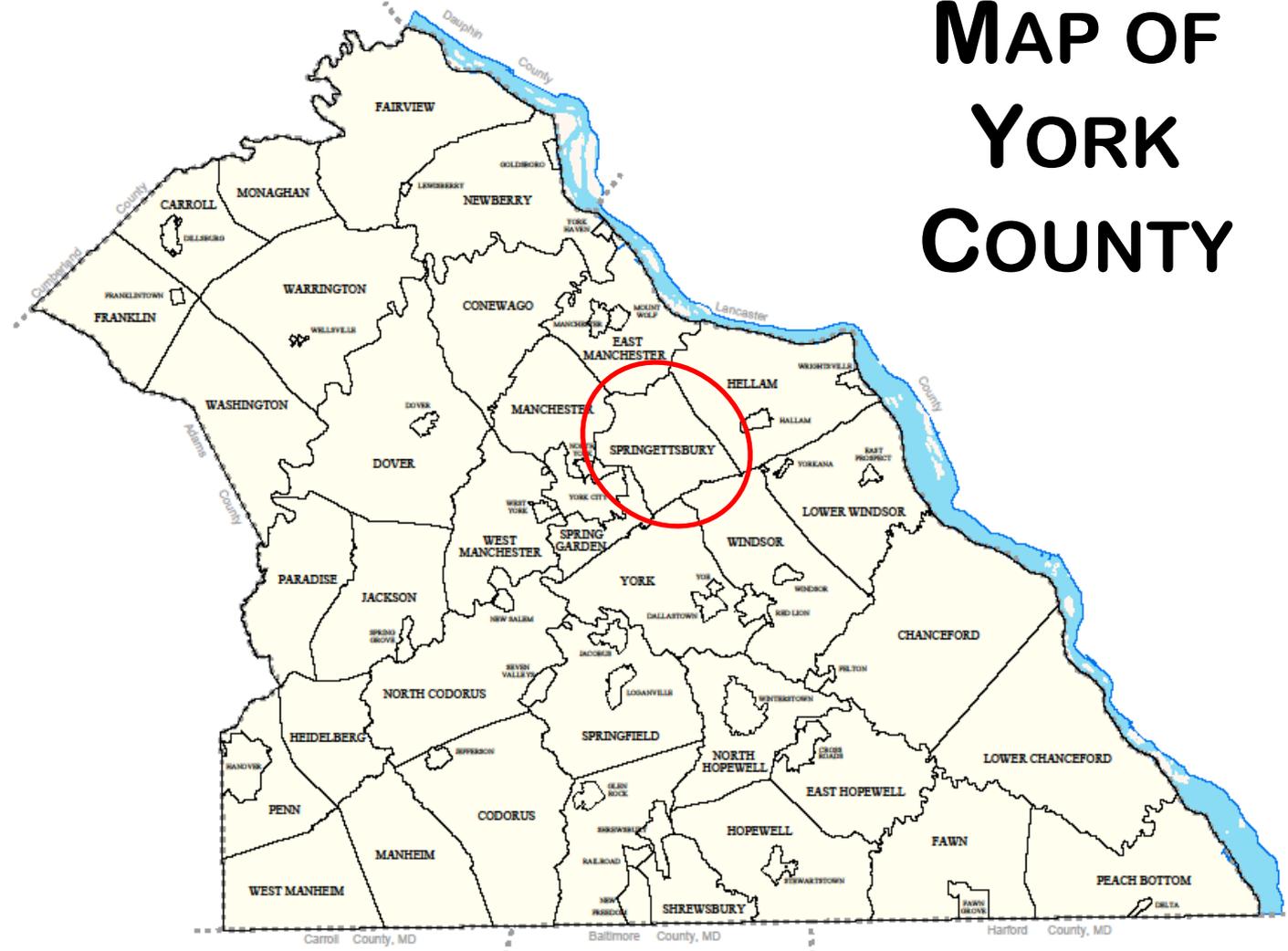




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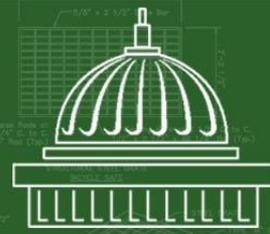


MAP OF YORK COUNTY





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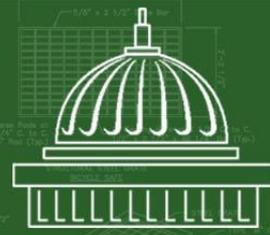
Stormwater Management Watersheds in York County, Pennsylvania



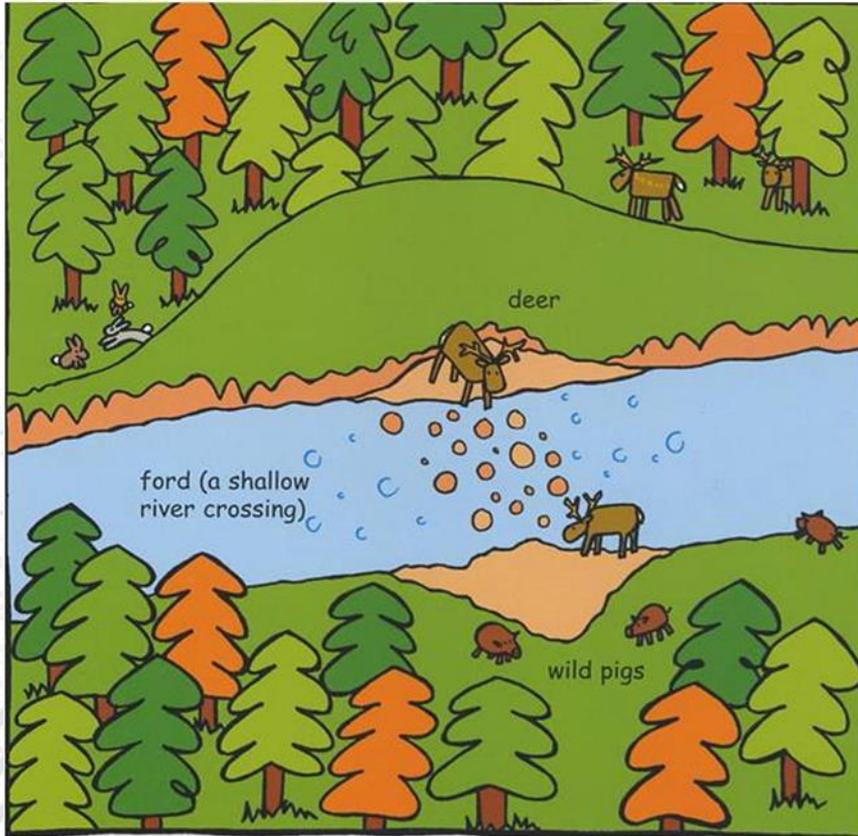
Map updated on
March 23, 2010



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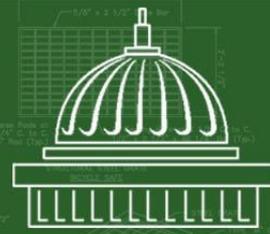


Past vs. Present





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Stormwater Run-off

Increase in flooding events

Financial burden



East Market Street – beyond
Stoney Brook



Stonewood Road



Eberts Lane and I-83

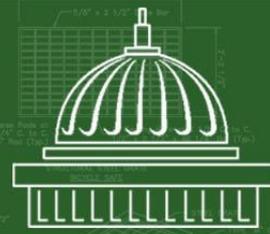
Health, safety, public welfare

*Doesn't follow
municipal boundaries*

*Degradation of
water quality*



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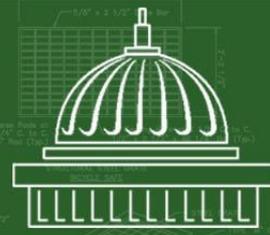


The regulations/policies and plans are all attempting to get your stormwater system to operate in a manner which stops having a negative impact.

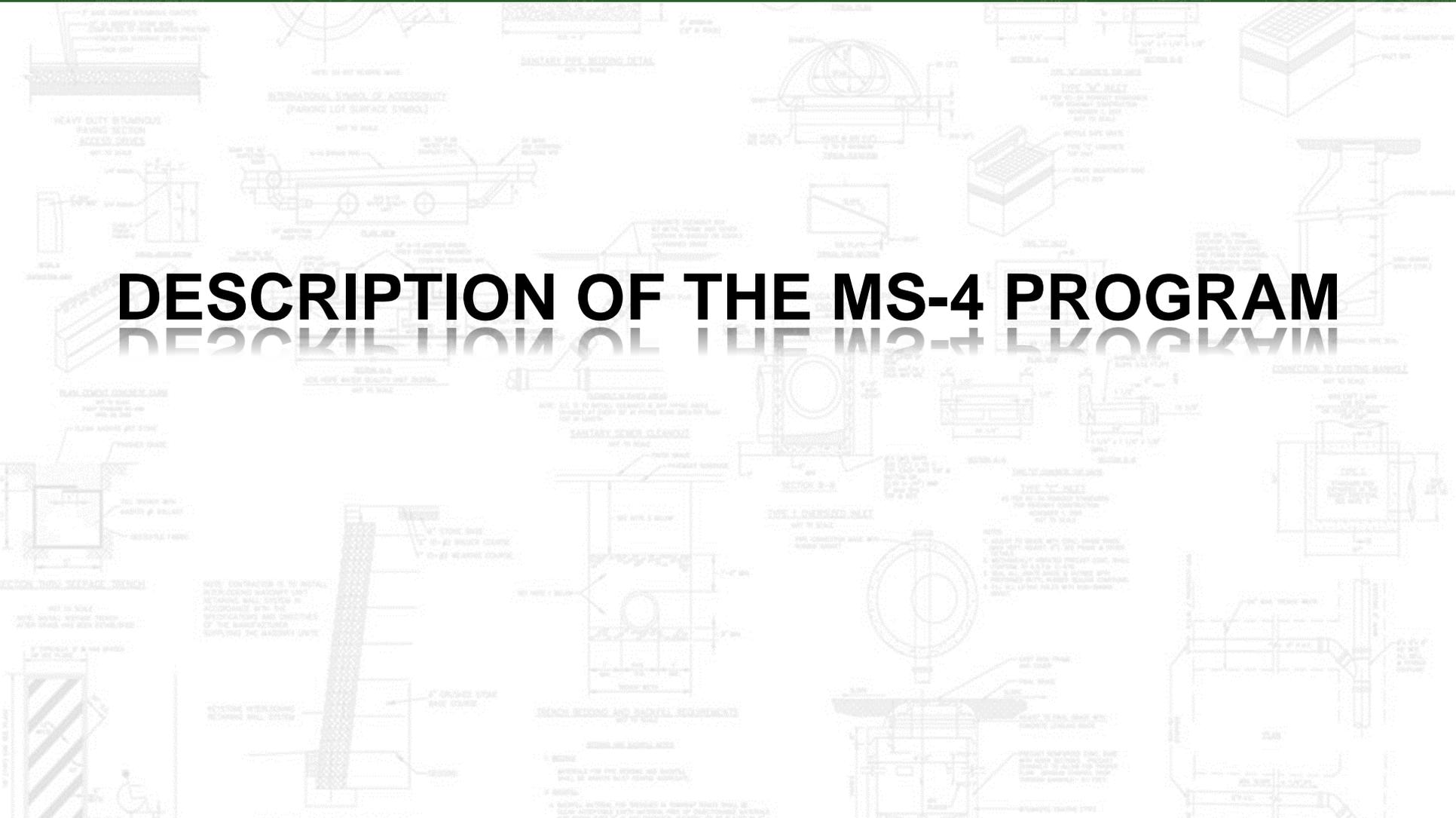
- 💧 Chesapeake Bay WIP
- 💧 MS4
- 💧 Act 167
- 💧 PA BMP Manual
- 💧 NFIP



SPRINGETTSBURY TOWNSHIP & FIRST CAPITAL ENGINEERING, INC.

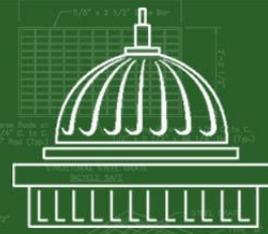


DESCRIPTION OF THE MS-4 PROGRAM





SPRINGETTSBURY TOWNSHIP & FIRST CAPITAL ENGINEERING, INC.

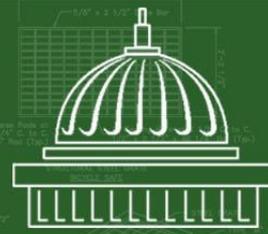


- What is MS-4?
 - Municipal Separate Storm Sewer System
- Program to Regulate Stormwater Runoff
- Goal to Improve Water Quality
 - Program Originally Promulgated in 1993
 - Consists of 5 Year Terms
 - Program has requirements that Springettsbury Township must follow which then come down on the landowner
 - Permit Recently Renewed for Springettsbury Township
 - Springettsbury Township is in compliance, but are now required to do more to stay within compliance

Highlight: *The Walters Property and Camp Security which consists of approximate 167 acres was able to be developed, but now is preserved by the Township.*



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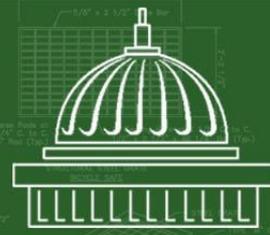
MCM #1 Public Education and Outreach

- Plan notes, deed notes or restrictions
- Watershed Weekends
- Educational signs/programming
- Stormwater agreements
- HOA education
- Municipal/County newsletters
- Township/County website

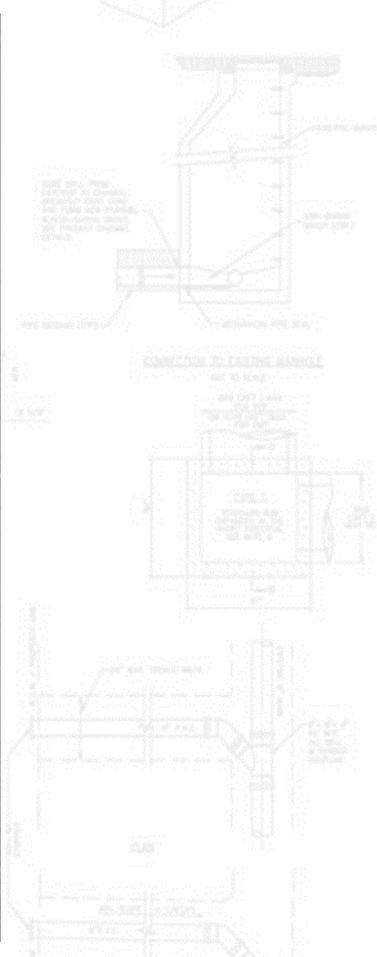
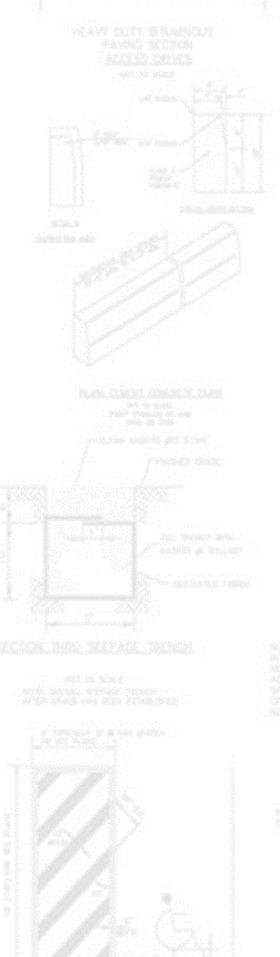




SPRINGETTSBURY TOWNSHIP & FIRST CAPITAL ENGINEERING, INC.

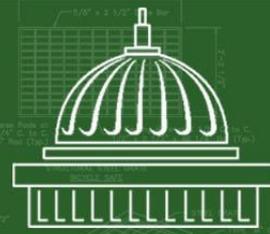


MCM #2 Public Involvement/Participation





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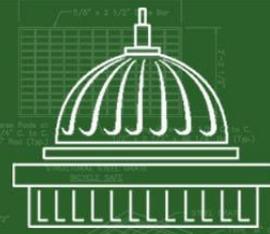
MCM #3 Illicit Discharge Detection and Elimination (IDD&E)

- Survey Outlet Structures
- Utilize interns
- Report results to DEP





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MCM #4 Construction Site Stormwater Runoff Control

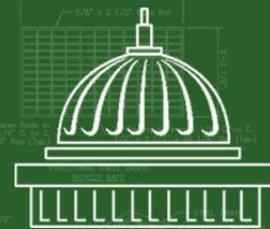


Penn Oaks Park

**Implement
sediment and erosion
controls at construction
sites.**



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MCM #5: Post-Construction Stormwater Management (PCSM) in New and Re-Development Activities



Greystone Development – Stormwater Basin



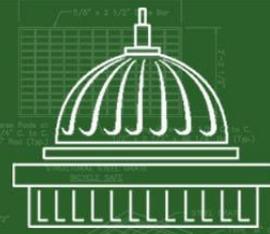
Susquehanna Bank – Rain Garden



Chick Fil A – Underground retention basin

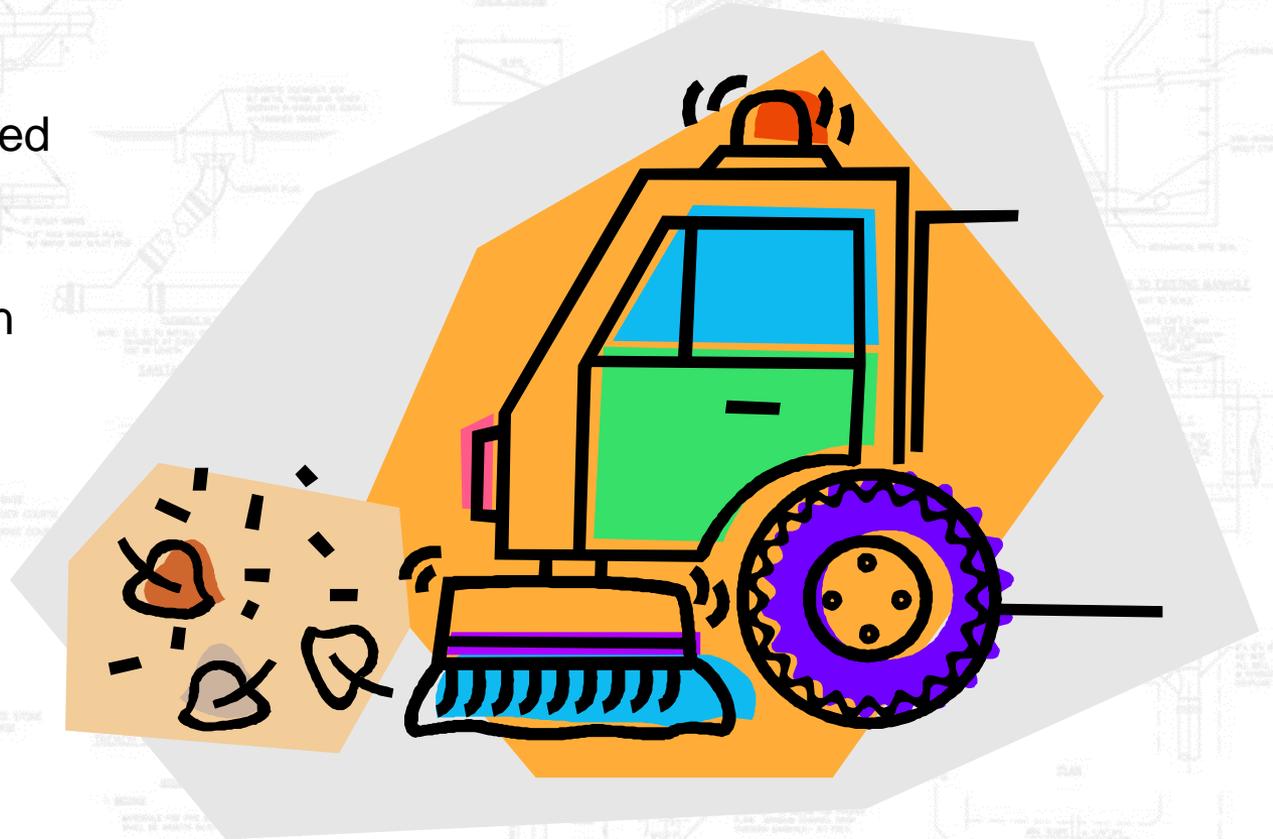


SPRINGETTSBURY TOWNSHIP & FIRST CAPITAL ENGINEERING, INC.



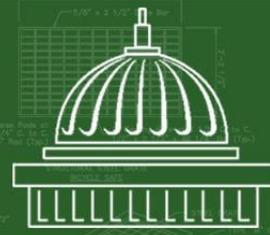
MCM #6 Pollution Prevention/Good Housekeeping for Municipal Operations

- Cooperate with watershed groups to plant trees
- Review environmental impacts; conduct carbon audit
- Calibrate salt spreaders
- Implement organic program for parks

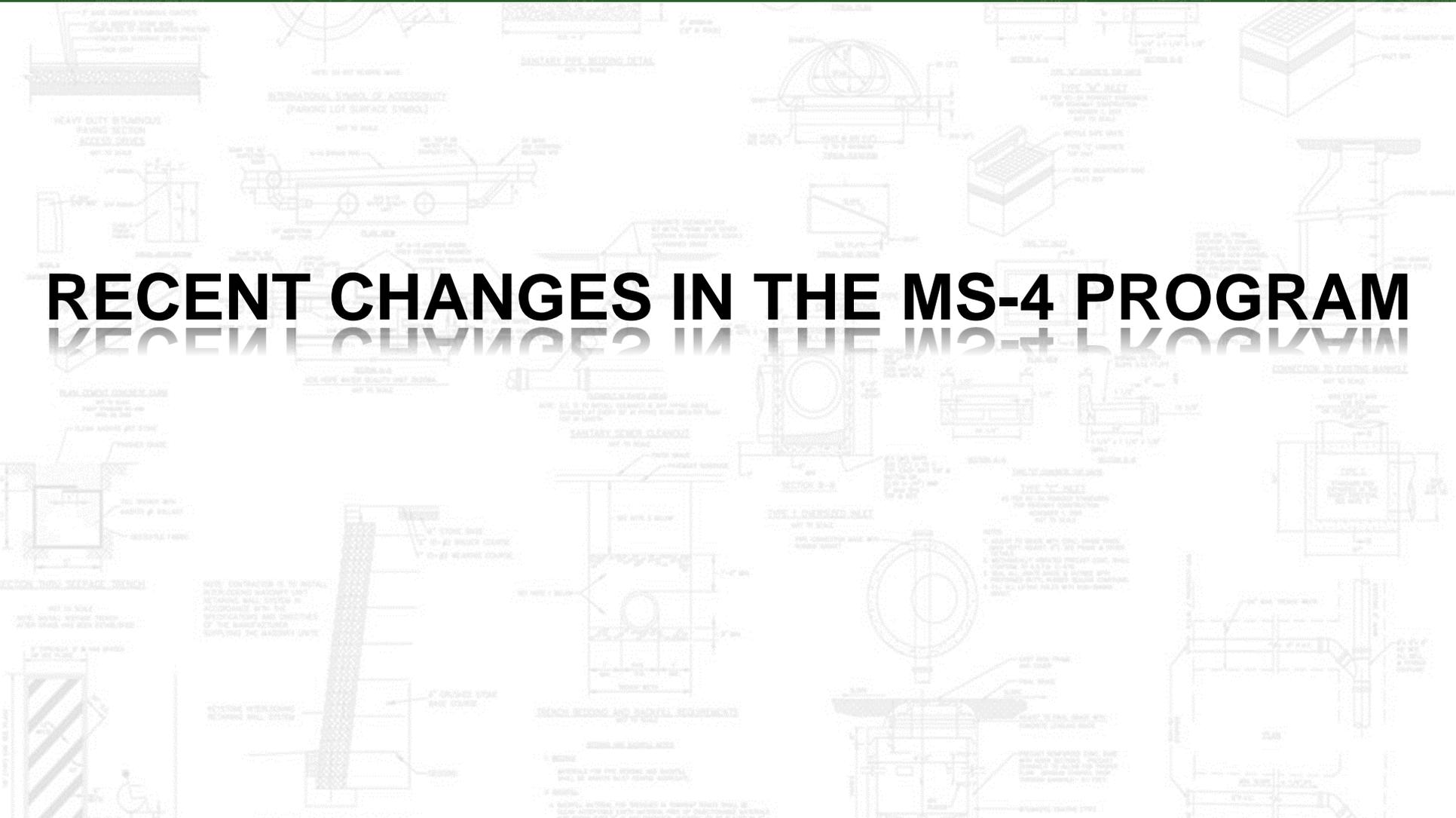




SPRINGETTSBURY TOWNSHIP & FIRST CAPITAL ENGINEERING, INC.

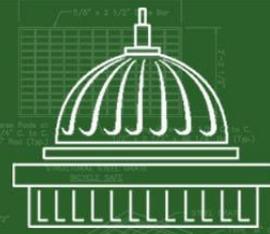


RECENT CHANGES IN THE MS-4 PROGRAM





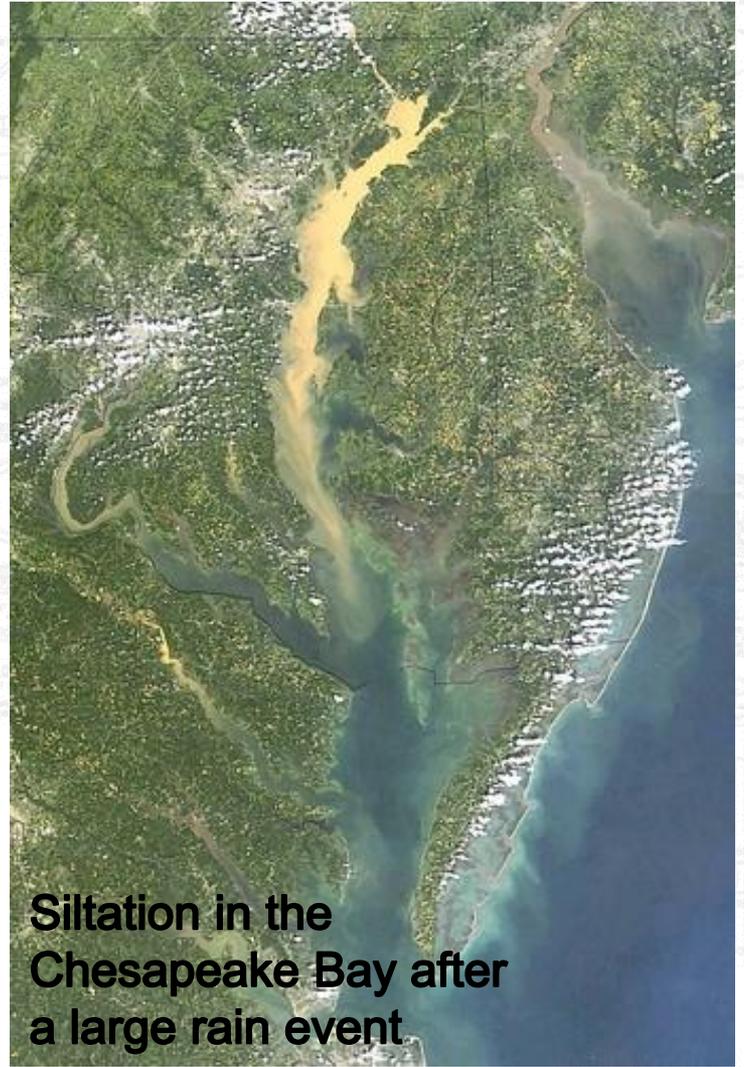
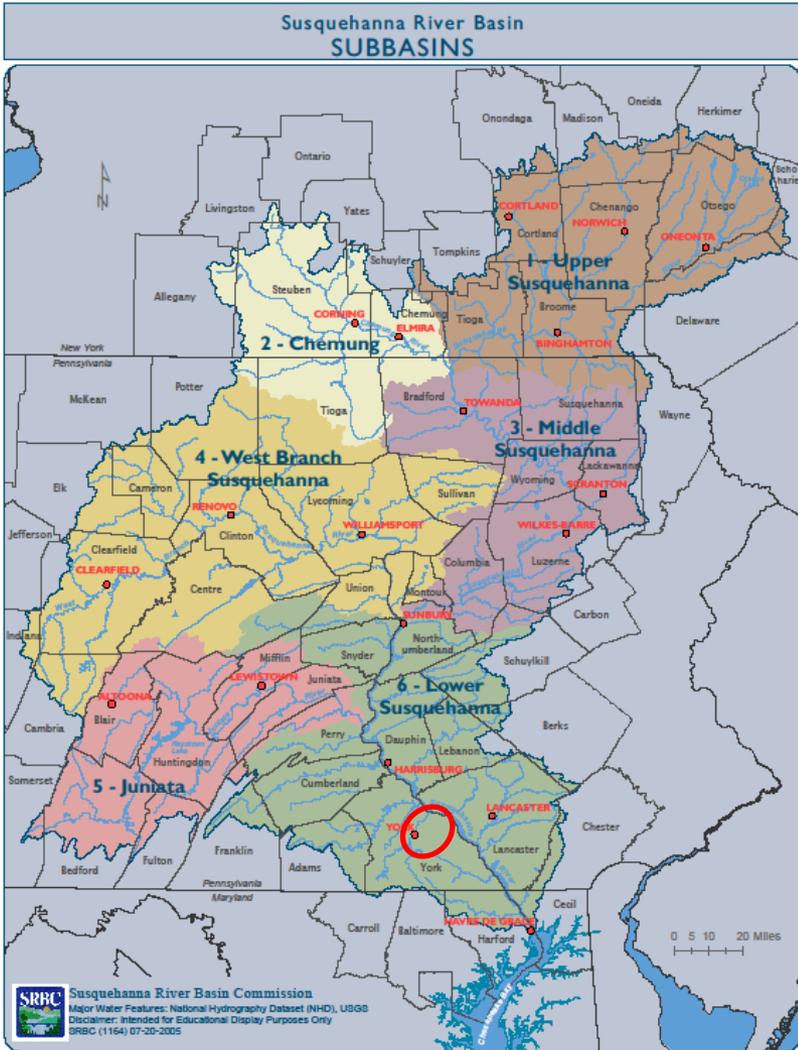
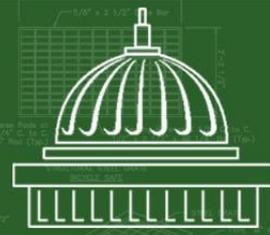
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- Program Renewed Under Auspices of General Permit PAG-13
- Changes in the Program
 - Greater Emphasis on Public Outreach/Participation
 - Requirements to Map MS-4
 - Greater Emphasis on Water Quality
 - TMDL Plans
 - Discharges to Impaired Waters
 - Chesapeake Bay Pollution Reduction Plans



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Siltation in the Chesapeake Bay after a large rain event



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Nutrient Reduction Milestone Opportunities



WASTEWATER

- Nitrogen Reduction
- Phosphorus Reduction



URBAN/SUBURBAN LANDS

- Connecting Septic to Sewer
- Restoring Urban streams
- Stormwater Management Improvements

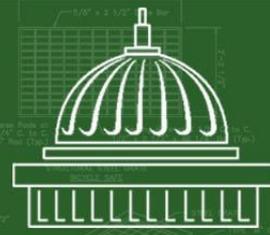


AGRICULTURE

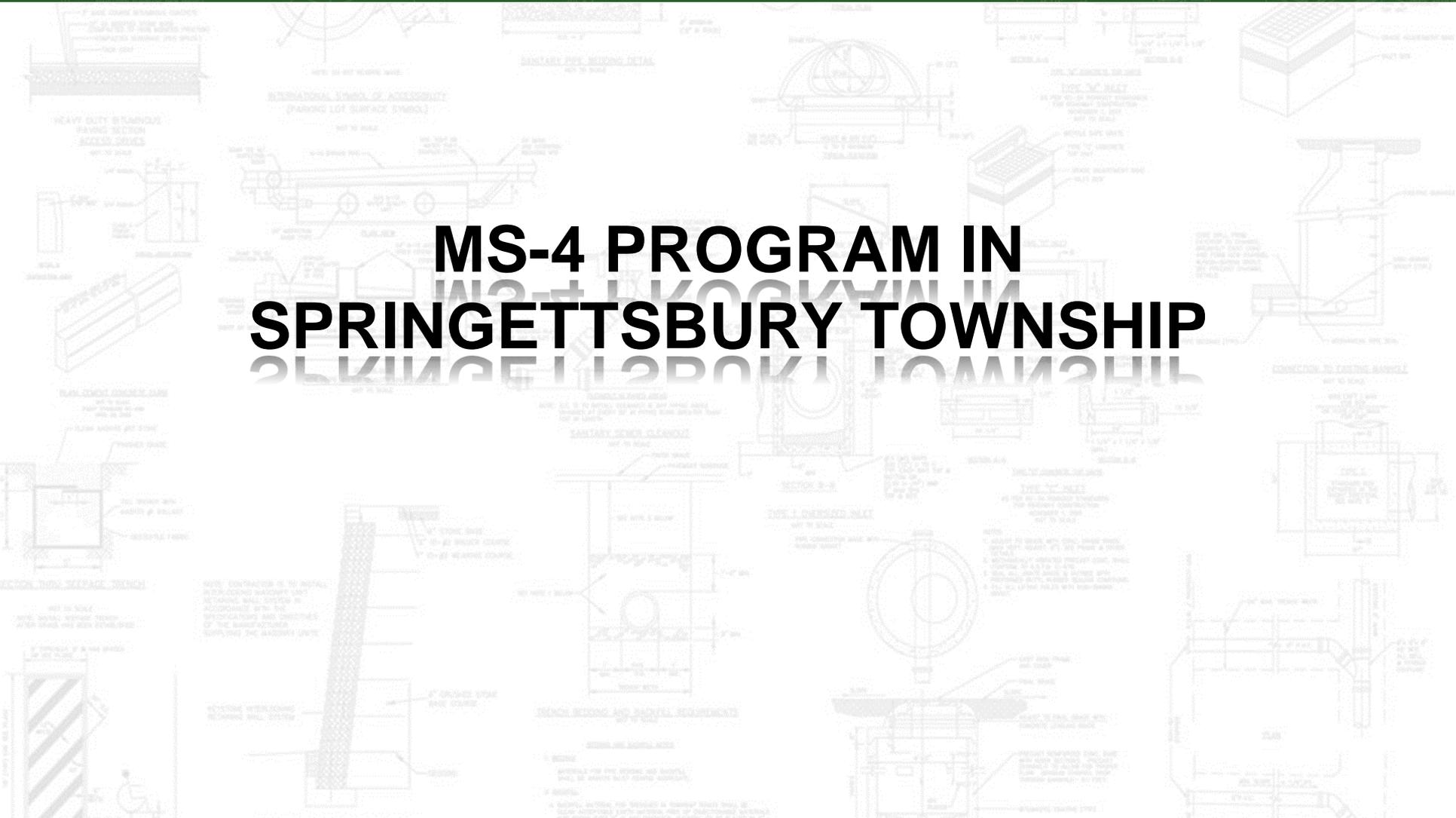
- Planting Forest Buffers
- Cover Crops
- Increasing No-Till Land
- Increasing Nutrient Management Acreage
- Increasing Conservation Plans



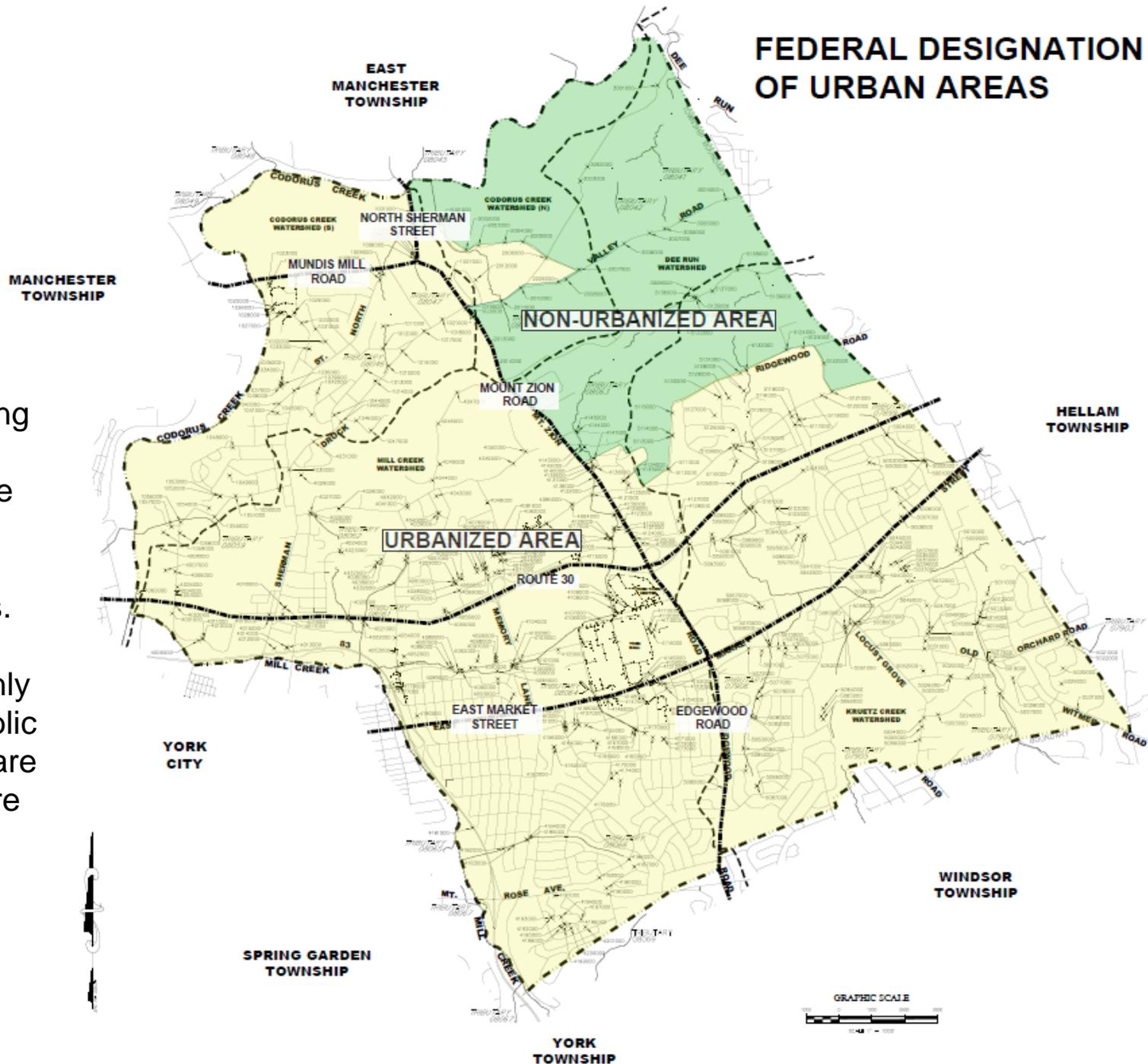
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MS-4 PROGRAM IN SPRINGETTSBURY TOWNSHIP



FEDERAL DESIGNATION OF URBAN AREAS



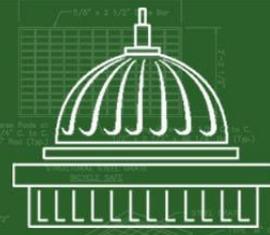
In the 2014 reporting year for the MS-4 program there were 518 outfalls. This consisted of public and private outfalls.

The Township is only responsible for public outfalls; 8 outfalls are public, all others are private.

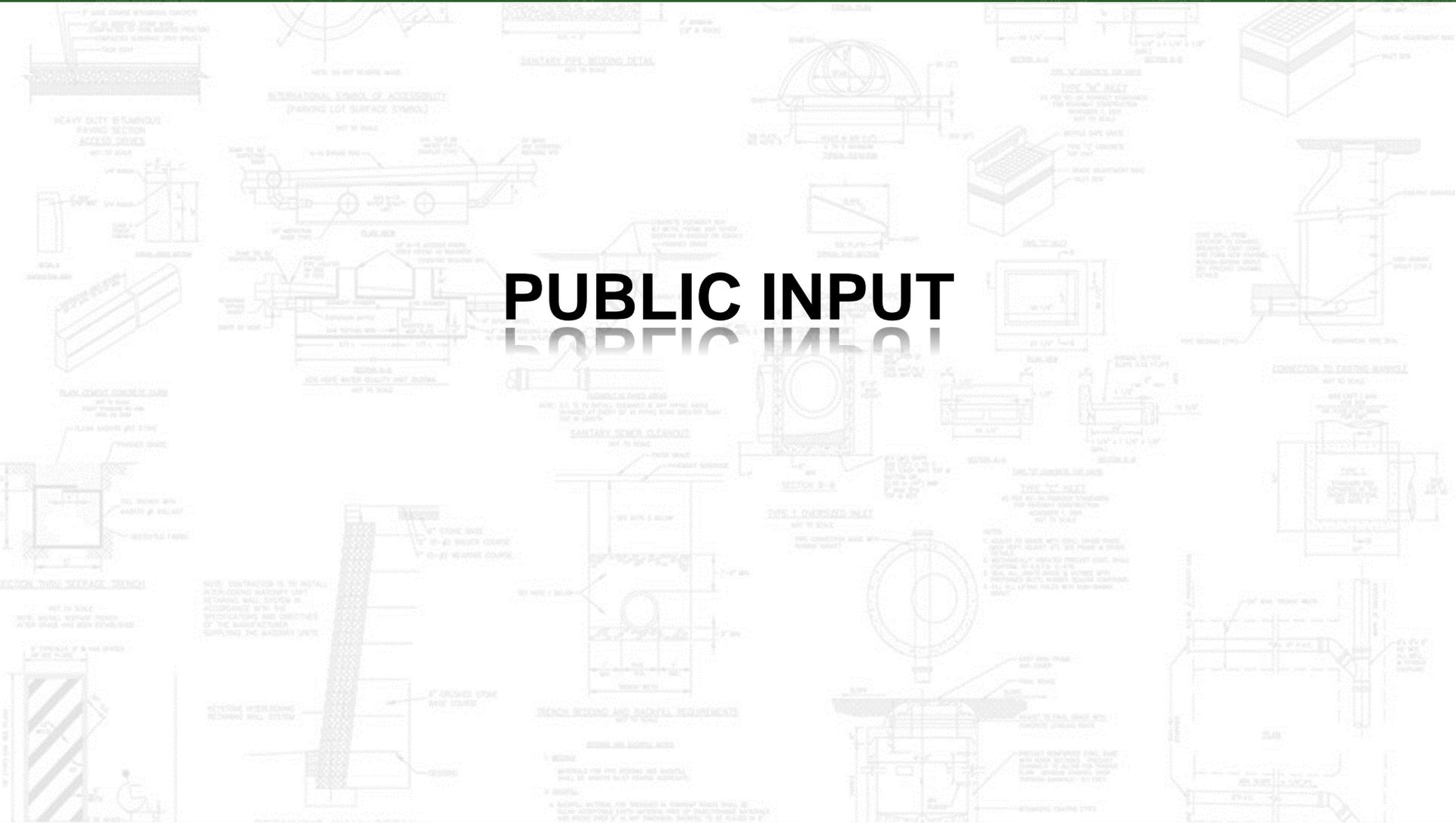
Springettsbury Township monitors 25% of the outfalls each year.



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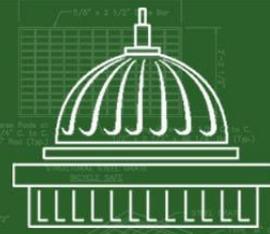


PUBLIC INPUT LOGIC MODEL





SPRINGETTSBURY TOWNSHIP & FIRST CAPITAL ENGINEERING, INC.



Questions?

John Holman, Township Manager

Patricia Lang, AICP, Community Development Director

William Gralski, PE

Brita Runkle, Planner

A special thank you to the “York County Planning Commission” for providing some of the information in this presentation.