

# STORMWATER Projects Update

Presented to  
UTILITIES COMMITTEE  
December 12, 2017



# Appleton's Implementation Plan for City-wide Stormwater Management Plan

- 2015
  - Final design/permitting of Northland Pond (Done)
  - Work with Counties to clarify credit
    - Calumet and Winnebago (Done)
    - Outagamie County (In Progress)
  - Evaluate potential Mud Creek project (DONE)
  - Relocate public storm sewer at WWTP to address Illicit Discharge (Done)



## Appleton's Implementation Plan –Con't

- 2016
  - Solicit bids for Northland Pond (Done)
  - Work with WDOT to clarify credit (waiting for DNR/DOT agreement)
- 2017
  - Construct Northland Pond (In Progress)
  - Evaluate possibility of adding private street sweeping contract to supplement City staff (Done)
  - Final Design and Purchase Land for Leona Street Pond (In Progress)



## Appleton's Implementation Plan –Con't

- 2018
  - Construct Leona Street Pond (Moved to 2019)
  - Possibly construct pond with WDOT 441 Project
- 2019
  - Budget for next City-wide plan update
  - Issue RFP for consultant selection
- 2020-2021
  - High Efficiency Street Sweeper Upgrade
  - Update the City-wide Stormwater Management Plan



# NR 216 Permit

- Public Education and Outreach
  - Northeast Wisconsin Stormwater Consortium (NEWSWC)
  - Example: Summer Camp
  - Plan update needed (Done)
- Public Involvement and Participation
  - Tied to Public Education and Outreach
  - Example: April 21, 2018 River Cleanup





## NR 216 Permit

- Illicit Discharge Detection and Elimination
  - On-going field screening (2017 Field Work Done)
  - Ordinance Update (Complete)
- Construction Site Pollution Control
  - Ordinance and Program update (Done)
  - Continue Plan Review and Inspection



## NR 216 Permit

- Post-Construction Stormwater Management
  - Ordinance and Program update (Done)
  - Plan reviews 15 in 2014, 21 in 2015, 28 in 2016, 11 in 2017
- Pollution Prevention
  - 2 requirements added to the new permit
  - Additional reporting required
  - Program to be updated (Done)
  - Updating site specific SWPPP's for MSB, PRFMD, Reid, Whittman, WTP and WWTP (Done)

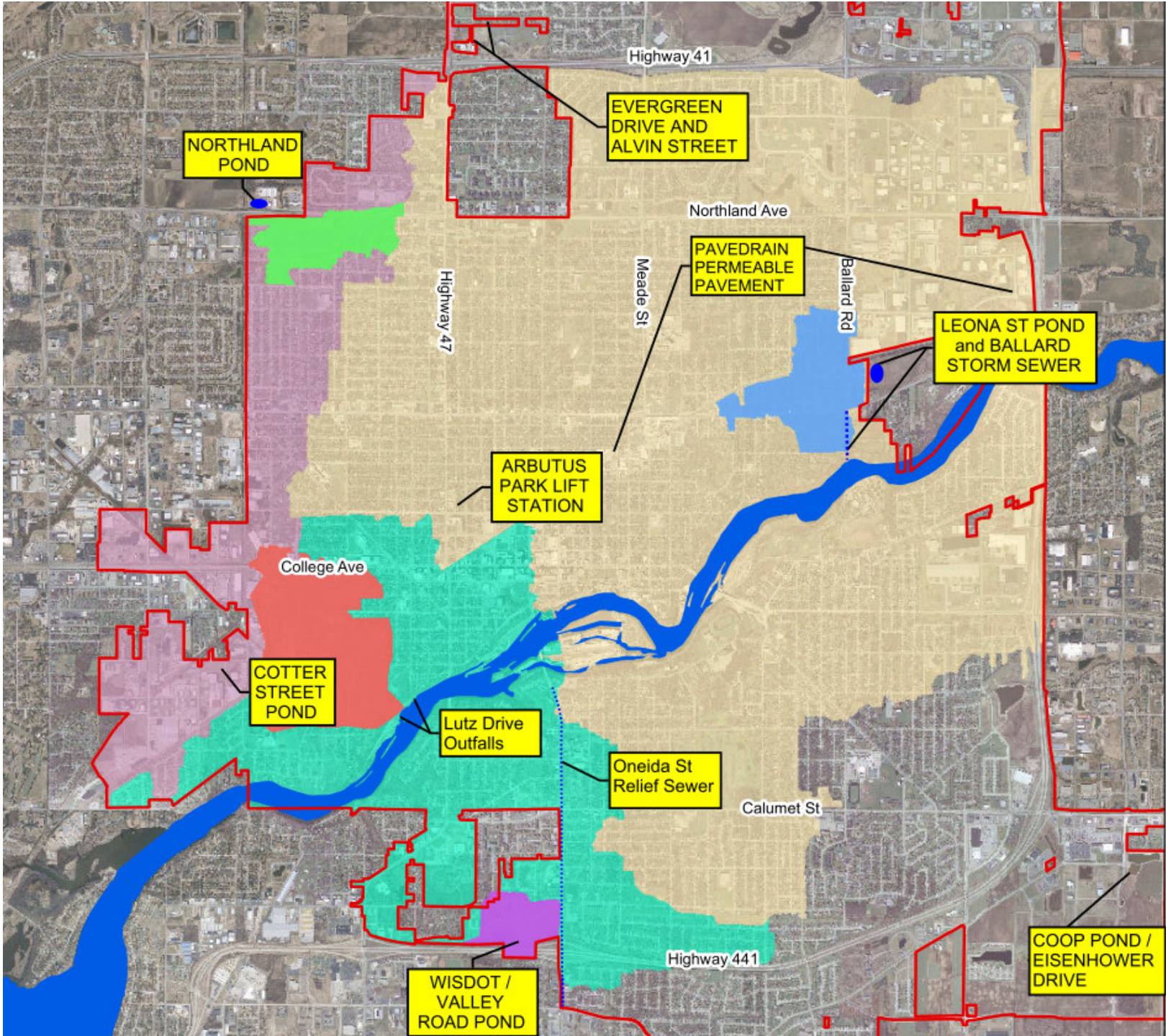


## NR 216 Permit

- Stormwater Quality Management
  - City-wide SWMP update fall 2014
  - Continuing to implement plan
  - Continuing to monitor technical changes
  - Continuing to monitor Lower Fox River TMDL implementation
  - Continuing to monitor development of Upper Fox River TMDL
- Storm Sewer System Map and Annual Report
  - New On-line DNR Annual Report form







## 2017 Capital Projects

- Northland Pond (In Progress)
- Cotter Street Pond (Done)
- Arbutus Park Lift Station (Done)
- WISDOT/Valley Road Pond (Design Done)
- Leona Street Pond/Ballard Road Storm Sewer (In Design)
- PaveDrain Permeable Pavement (Done, Monitoring)
- Spartan Drive Corridor (In Design)
- CTH JJ/Lightning Drive Pond (Nearly Complete)
- Coop Pond/Eisenhower Drive (In Progress)
- Lutz Drive Outfalls (In Progress)
- Oneida Street Relief Sewer (Done)
- Evergreen Drive and Alvin Street (Planning)



# Regulations/Guidance

- Technical Standards
  - Compost for Stormwater Management (Final Oct)
  - Site Evaluation for Stormwater Infiltration (Final Sept)
  - Tracking Pad for Construction Sites (in drafting)
  - Ditch Check (recent public comment period)

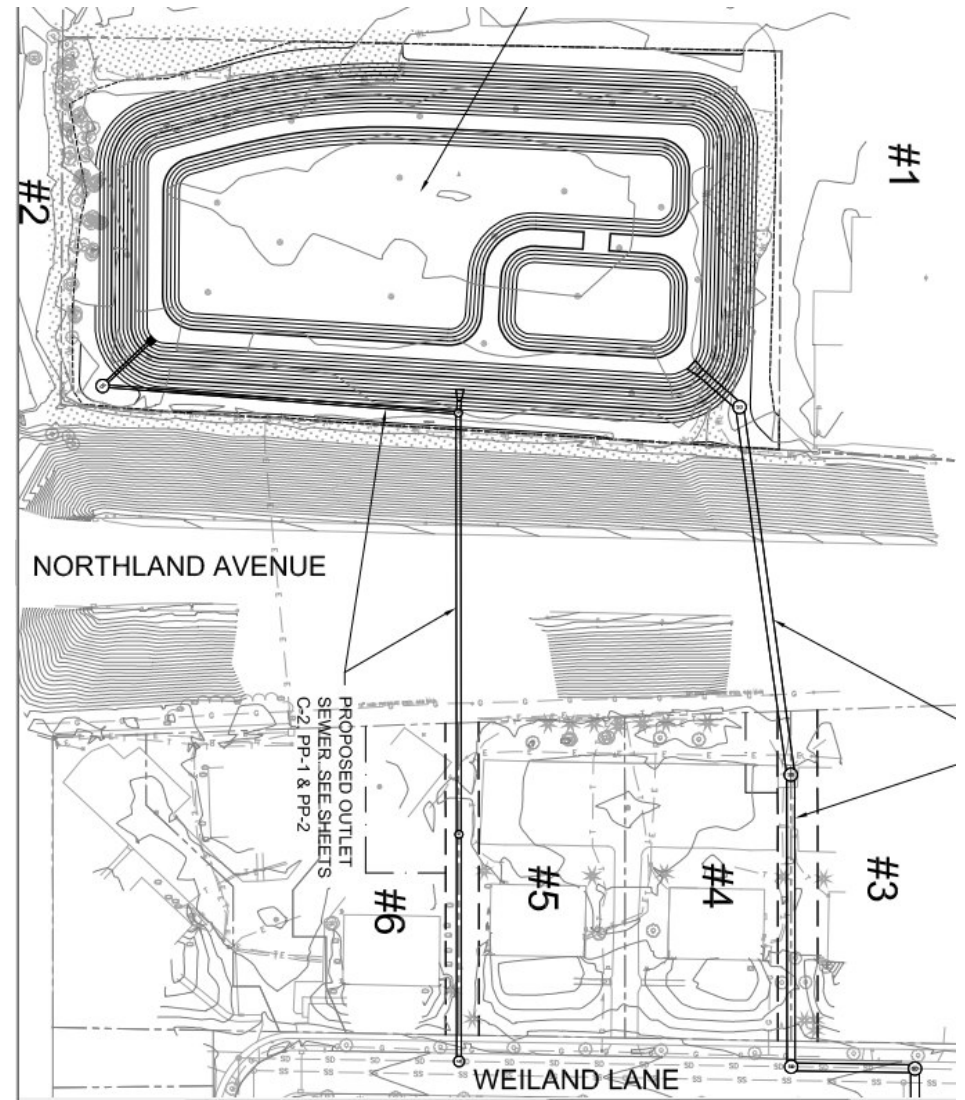
# Regulations/Guidance

- Construction Site Soil Loss Calculations – Final Sept – all projects by Jan 1, 2018
- Public Comment
  - Permit for DOT Construction Sites
  - Urban Stormwater Grants
  - Interim Phosphorus Reduction for Leaf Management
  - Econ Impact Analysis for NR 152



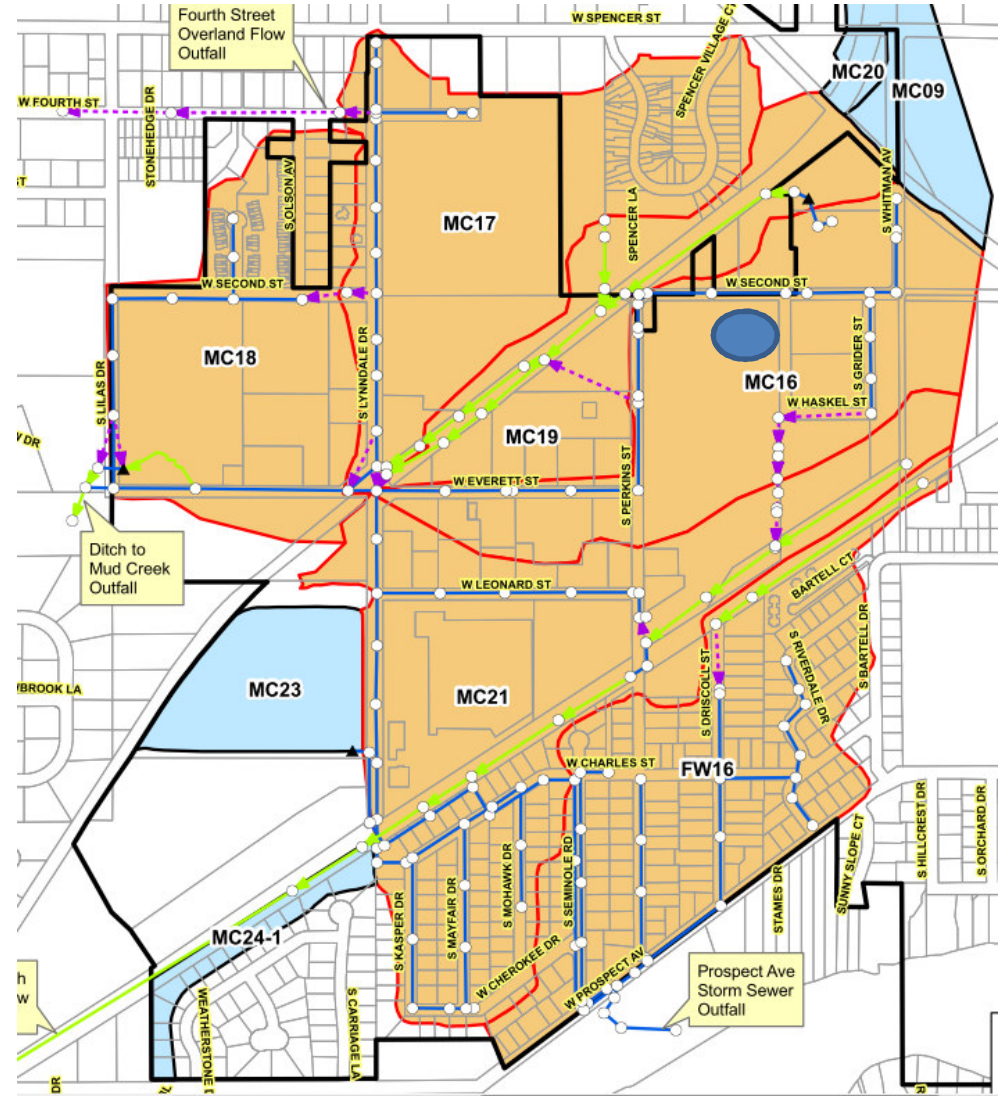
# NORTHLAND POND

- Part of West Wisconsin Ave Study Selected Alternative to reduce flooding west of Mason Street
- Construction began March 20<sup>th</sup>, 2017
- Contractor will continue work in 2017 as weather allows
- Construction completion Spring 2018



# COTTER STREET

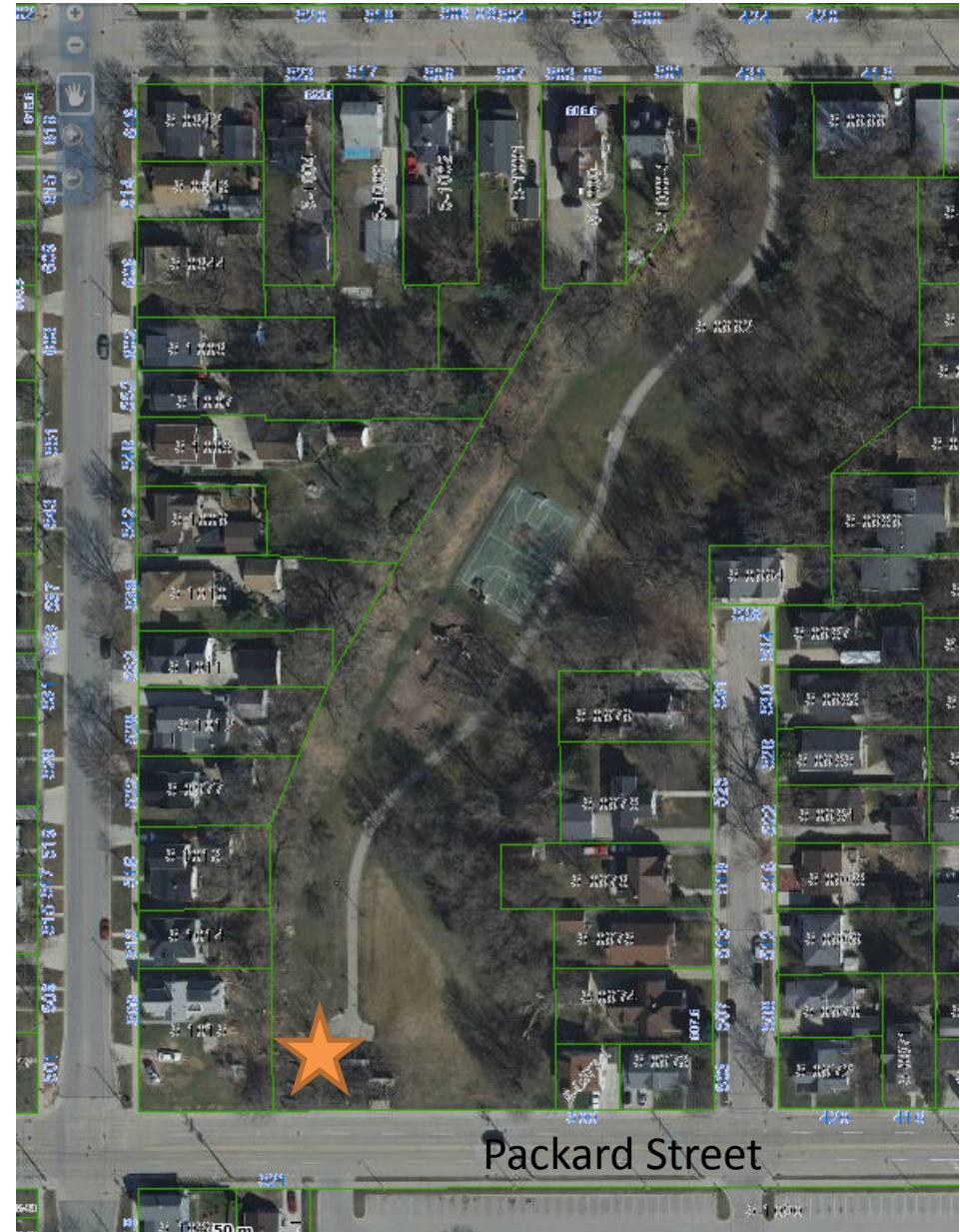
- Wet Pond Alternative approved fall 2016
- Construction complete





# ARBUTUS PARK

- Stormwater Lift Station Rehabilitation
- Construction complete



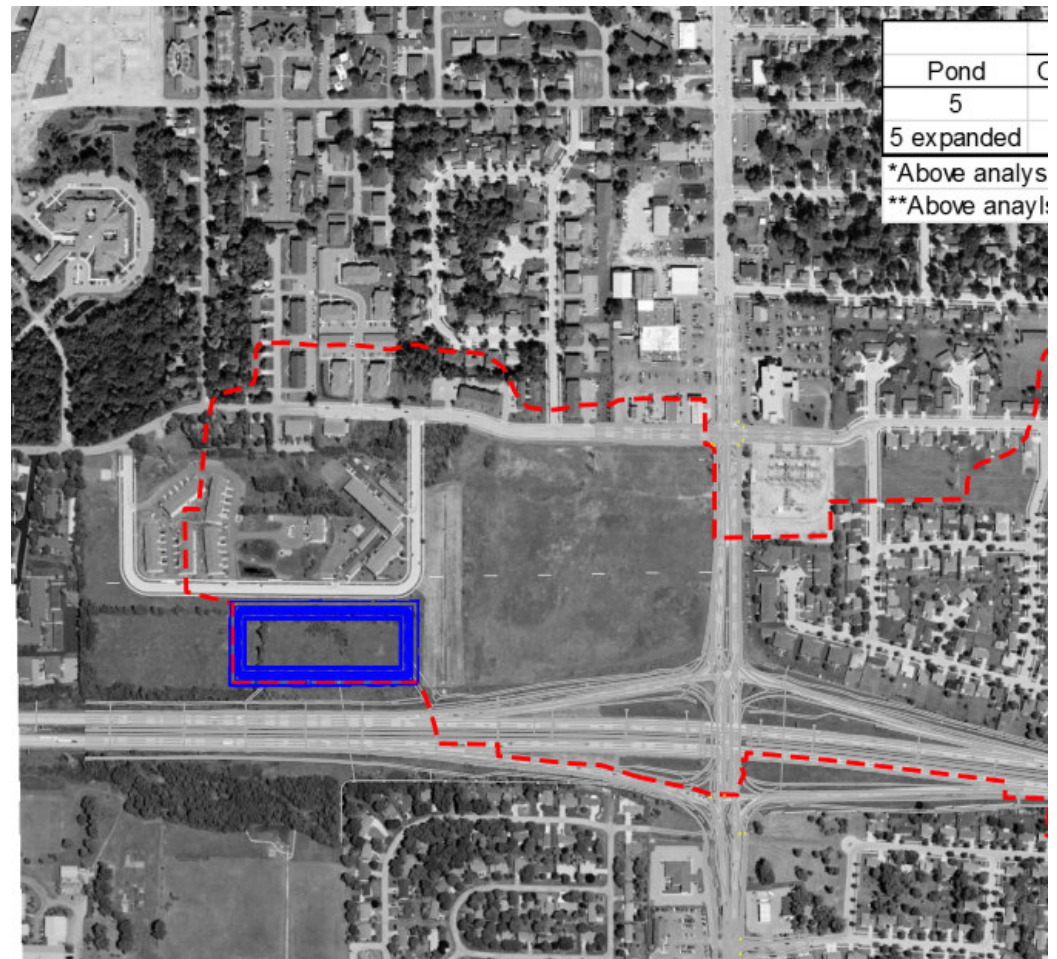


# WisDOT/Valley Road Pond

- DOT- led project to expand pond
- Anticipated 2018-2019

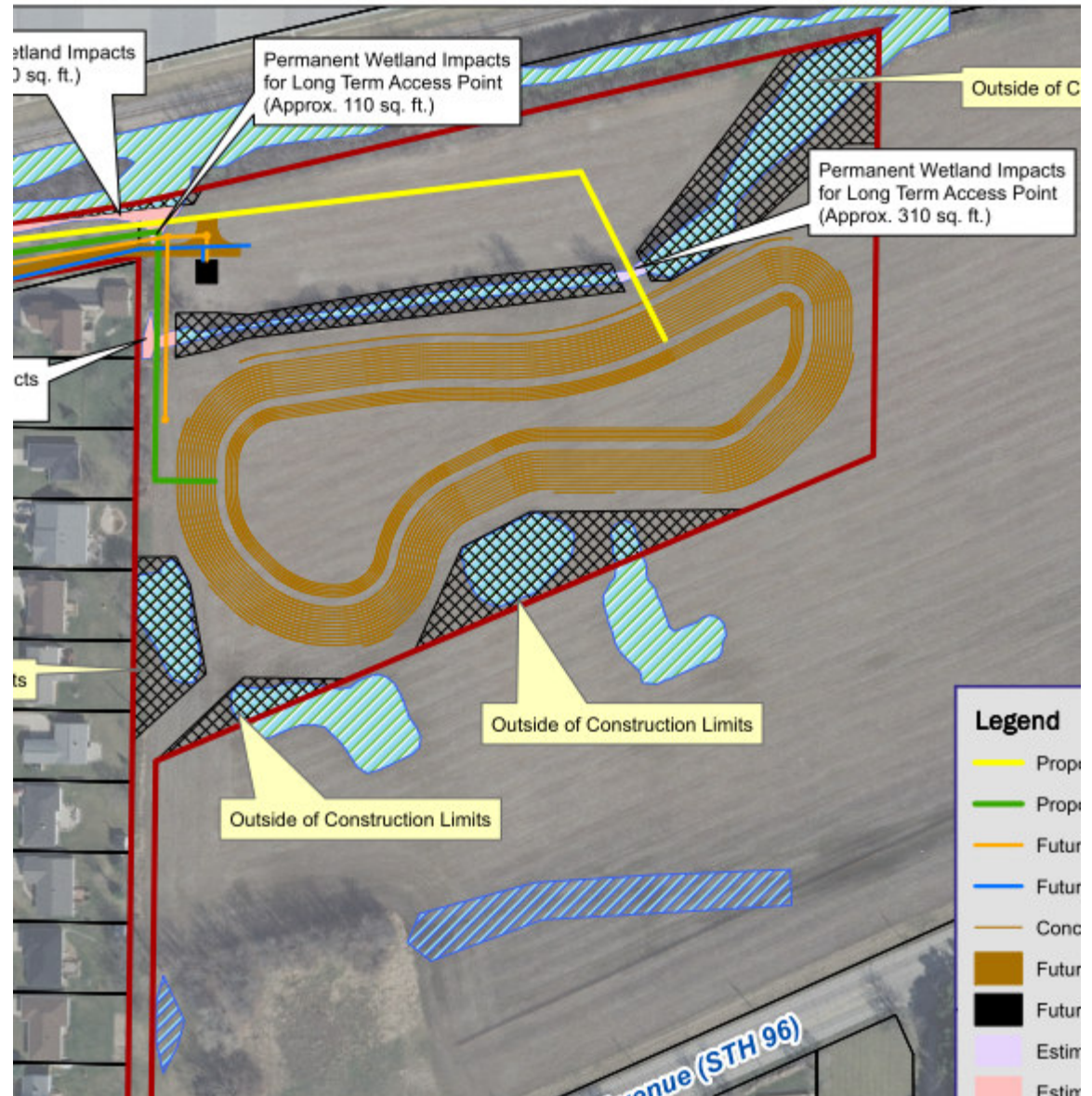
Construction

- Agreement Approved  
By Council in November



# Leona Street Pond

- DNR/ACOE Meeting June 2017
- Additional wetland delineation June 2017
- Land Acquisition in Progress
- Permitting in 2018
- Possible Future Enhanced P Removal
- Downstream Ballard Storm Sewer Out for Bids





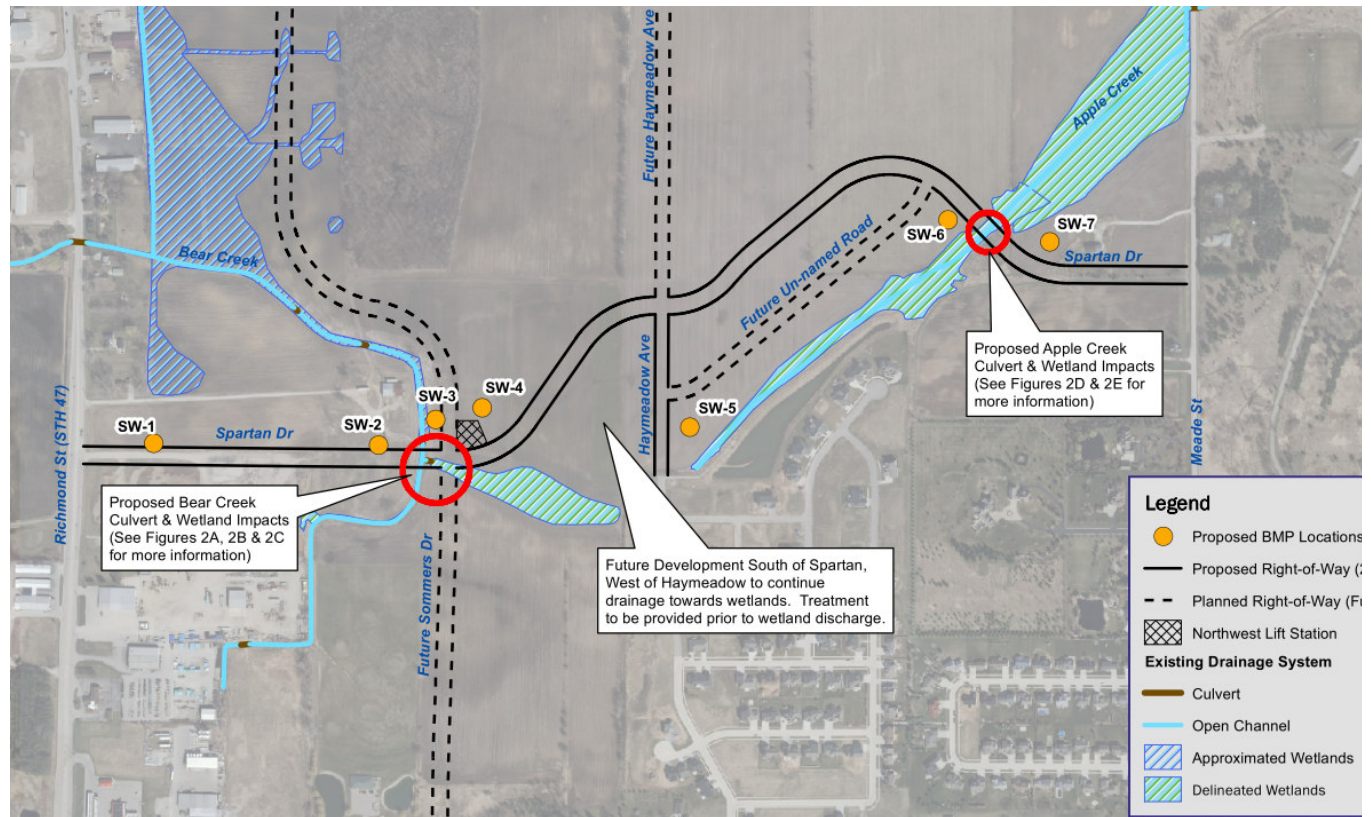
# PaveDrain Permeable Pavement

- Pilot Projects at Fire Station #1 (2015) & Sandra St (2016)
- Flood Reduction and Water Quality
- Performance Monitoring is Ongoing



# Spartan Drive

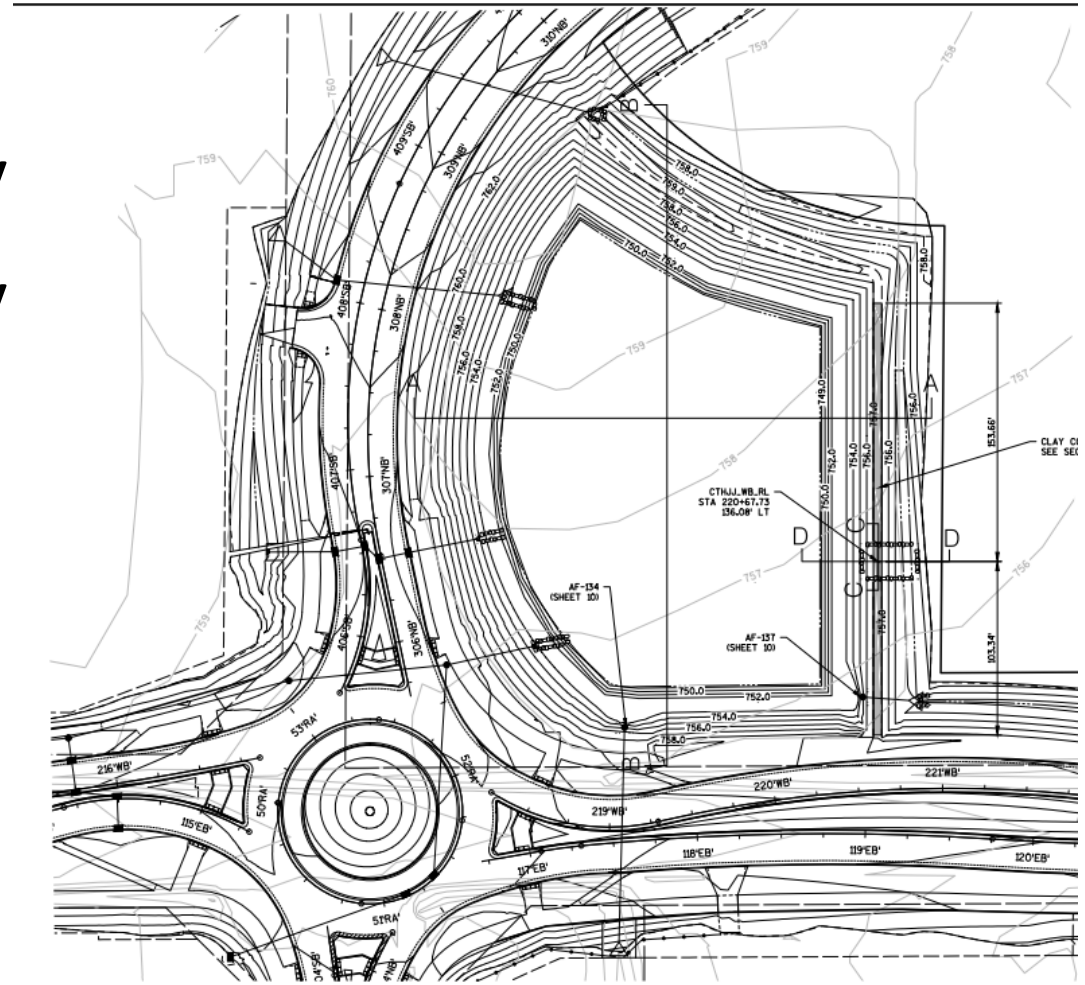
- Discussion with WDOT Regarding STH 47 Connection
- Working on land acquisition
- 60% Design and Permitting in 2018





# CTH JJ/Lightning Drive Pond

- Joint Project with Outagamie County
- Outagamie County constructed in 2017
- Punchlist Items to be addressed in Spring, 2018



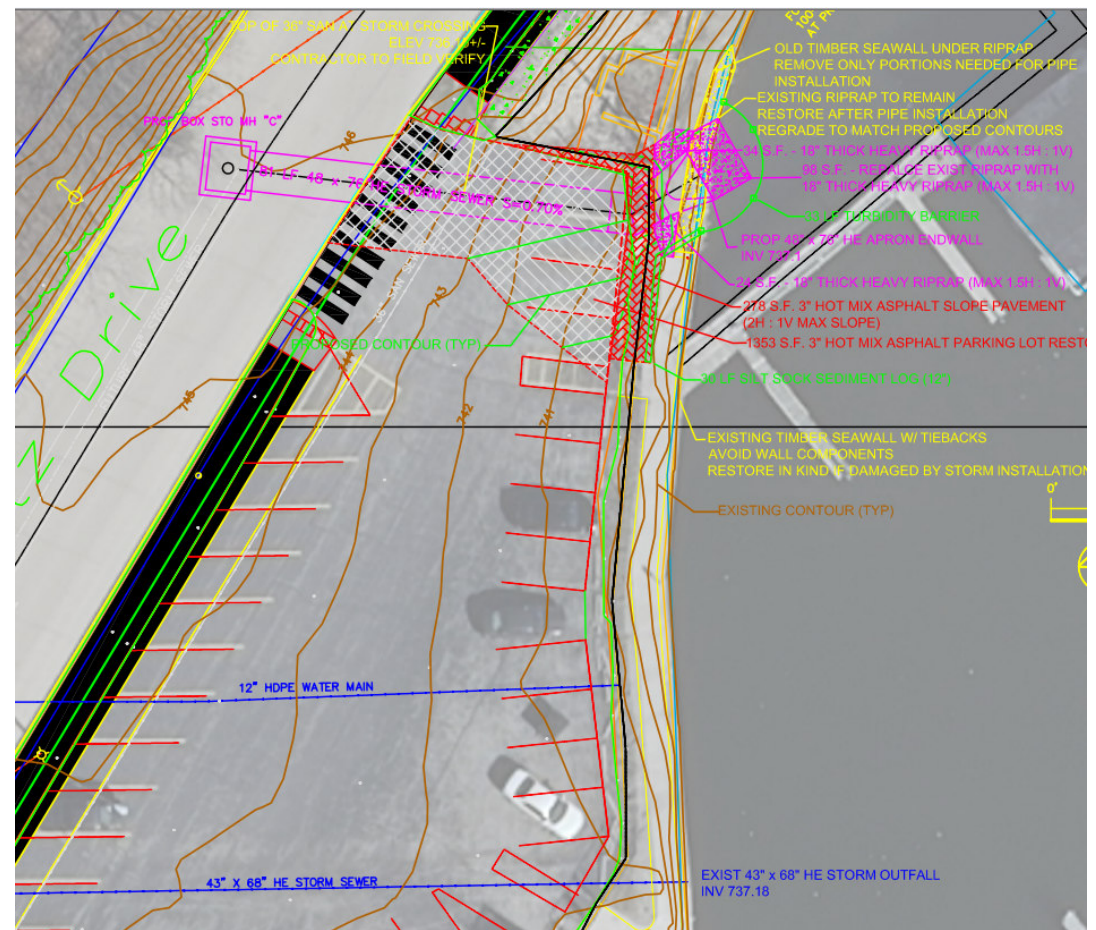
# Coop Pond/Eisenhower Dr Sewer

- AECOM evaluated Pond function under current technical standards
- Additional storm sewer done in 2017
- Outlet structure modification RFP issued. Work to be done in 2018



# Lutz Drive Outfalls

- Part of Spencer/Locust Basin Study selected alternative to reduce flooding
- Yacht Club Parking Parking Lot (Done)
- Pierce Ave Started Complete in 2018







# Storm Sewer Upgrades

- Pursuing drainage study recommendations
- Coordinating with paving schedule
- 2017: Oneida Street, Calumet Street, Weiland Lane, Linwood Ave, Lutz Drive

