Delaware County Regional Sewer District



Presentation



November 2, 2016



DELAWARE COUNTY

- Fastest Growing County in Ohio
- Healthiest County in Ohio
- Wealthiest County in Ohio MHI)

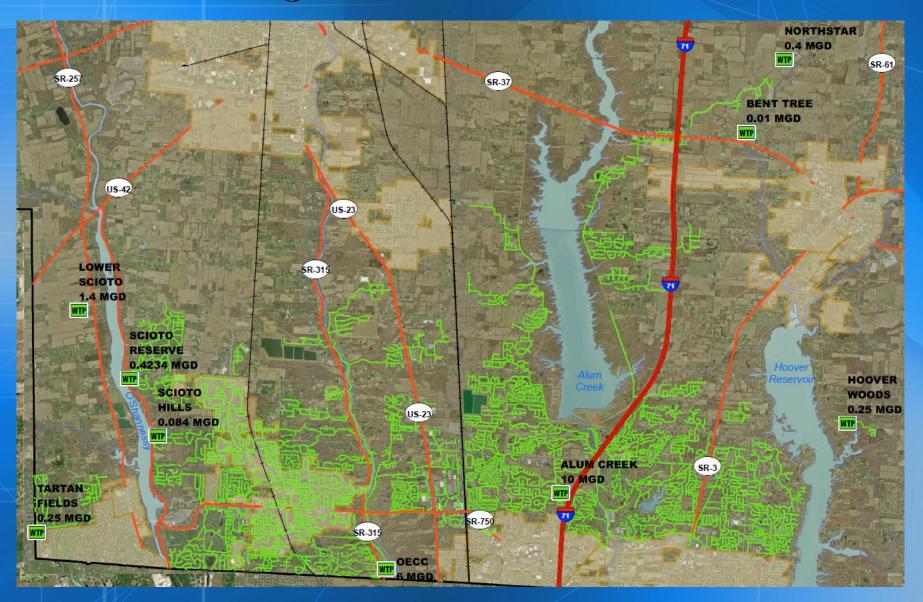


- Highly Educated (>60% Bachelors Degree)
- 2nd Happiest County in U.S.
- **AAA** bond rating; first Ohio since 1990s

Great Place to Live, Work, and Play

....And Build New Houses and Condos!

Regional Sewer District



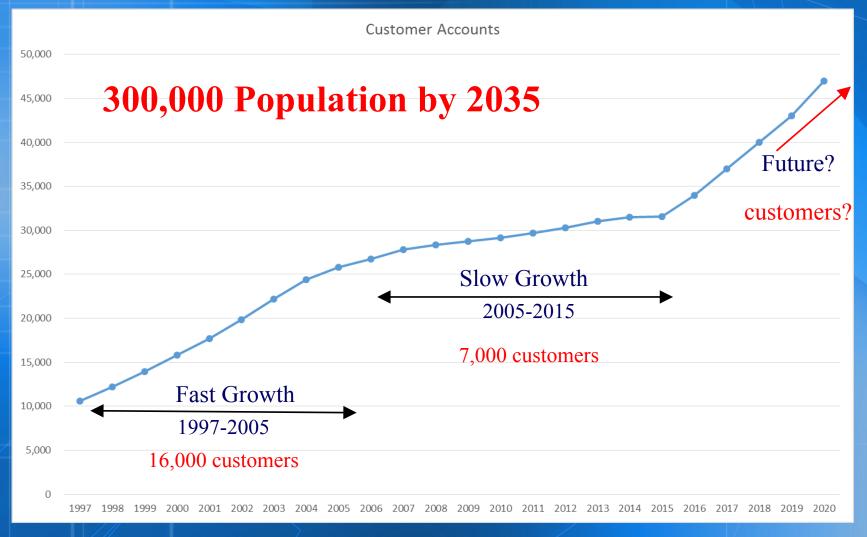
Master Plan Goals

- Progressive Infrastructure Strategy to Support Rapid Development
 - Meet current needs
 - Accommodate 25 years of growth
 - Sustainable ultimate system operation
- Maintenance of our current and really good assets
- Focus on innovation and technology to improve Evaluation and Decision Making
 - Hydraulic Modeling

Master Plan Goals

- Focus on operational excellence and sustainability
 - Target Energy Savings
 - Biological Nutrient Removal in lieu of Chemical Treatment (Cost Savings
- Risk Allocation of Significant Development Infrastructure Investments "if we build it and they don't come?"
- Continue the Culture of Safety

System Growth – Future



Plan for Rapid Growth – Evaluate on Annual Basis

OECC System Model



Alum Creek System Model



Pump Station Evaluation

| | | | Peak WWF (MGD) | | 25-Year Conditions | | |
|--------------------|---------|----------|----------------|---------|--------------------|-----------|-----------|
| | | Modeled | | | | Upstream | |
| | | Station | | | | Minimum | |
| | Average | Capacity | | | | Freeboard | Surcharge |
| Pump Station | DWF | (MGD) | 5-Year | 10-Year | 25-Year | (ft) | (ft) |
| MAXTOWN | 0.3045 | 2.380 | 2.623 | 2.812 | 2.779 | 8.3 | 14.1 |
| EAST ALUM CREEK | 0.05114 | 0.551 | 0.357 | 0.419 | 0.480 | 10.4 | 0.0 |
| CHESHIRE | 0.5377 | 1.116 | 0.975 | 1.195 | 1.187 | 0.0 | 9.3 |
| SUMMERWOOD | 0.1121 | 0.612 | 0.521 | 0.590 | 0.672 | 9.5 | 0.0 |
| VINMAR FARMS | 0.0342 | 0.428 | 0.153 | 0.166 | 0.193 | 9.2 | 0.0 |
| PEACHBLOW | 0.1842 | 0.864 | 0.989 | 0.925 | 0 1.041 | 2.6 | 15.1 |
| TROTTERS GAIT | 0.0616 | 0.423 | 0.462 | 0.512 | 0.577 | 3.9 | 13.2 |
| SELDOM SEEN | 0.0163 | 0.706 | 0.330 | 0.382 | 0.460 | 6.0 | 0.0 |
| LEATHERLIPS | 0.8751 | 2.993 | 4.404 | 4.762 | 5.185 | 0.0 | 11.7 |
| GOLF VILLAGE NORTH | 0.0104 | 0.474 | 0.235 | 0.300 | 0.350 | 16.2 | 0.0 |
| WOODCUTTER | 0.0074 | 0.186 | 0.102 | 0.122 | 0.145 | 22.5 | 0.0 |
| GOLF VILLAGE | 0.1698 | 1.795 | 2.156 | 1.888 | 2.199 | 5.1 | 12.1 |
| LAKES OF POWELL | 0.2649 | 0.860 | 0.603 | 0.732 | 0.913 | 13.9 | 0.0 |
| DEERRUN | 0.022 | 0.230 | 0.066 | 0.072 | 0.080 | 7.9 | 0.0 |
| SHERBORNE MEWS | 0.0088 | 0.154 | 0.165 | 0.234 | 0.177 | 7.5 | 6.4 |
| QUAIL MEADOWS | 0.0292 | 0.551 | 0.372 | 0.442 | 0.529 | 17.1 | 0.0 |

OECC Improvements

- New Headworks (Reduces O&M)
- North Plant Rehab (Capacity)
- Aeration Upgrade (Electrical \$\$)
- Mixing Upgrade (Chemical \$\$)







Alum Creek Improvements

- Aeration System Modification (Electrical \$\$)
- New Mixers (Chemical \$\$)
- Outdated Electrical and I&C
- Filter Upgrades (Reduces O&M)



O&M Plant & PS Improvements

- OECC Upgrades \$30M
- ACWRF Upgrades \$12.5M
- Tartan Fields \$1M
- Scioto Reserve \$1.5M
- Lower Scioto WRF Upgrades \$1.5M
- Leather Lips Pump Station Upgrades \$0.3M

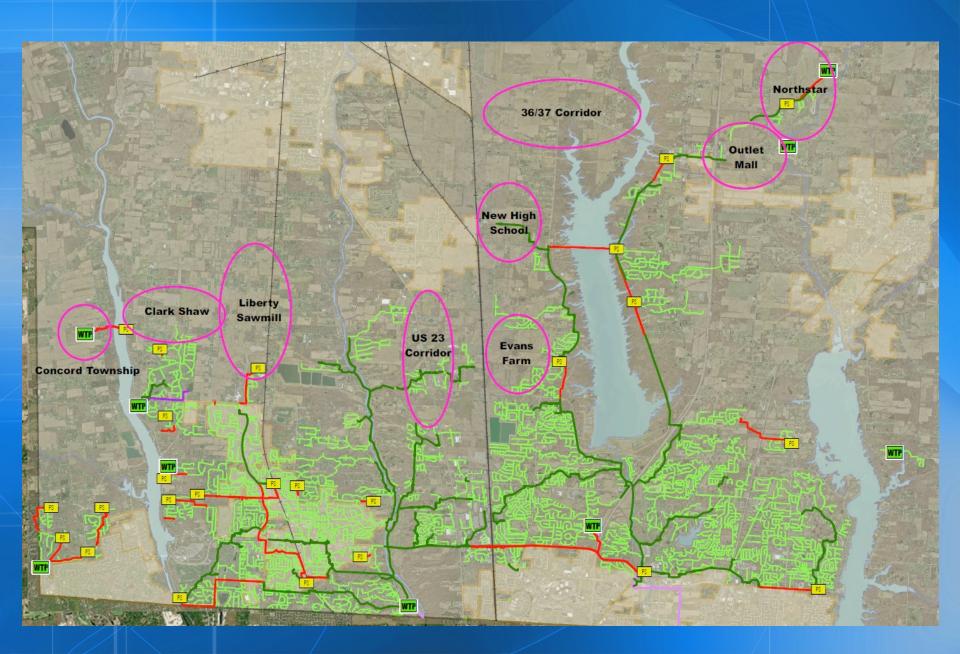
Development

- Concord Township
- Clark Shaw Area
- Liberty Sawmill Parkway Extension
- U.S. 23 Corridor
- Evans Farm
- New Olentangy High School
- Tanger Outlet Mall
- 36/37 Corridor
- NorthStar

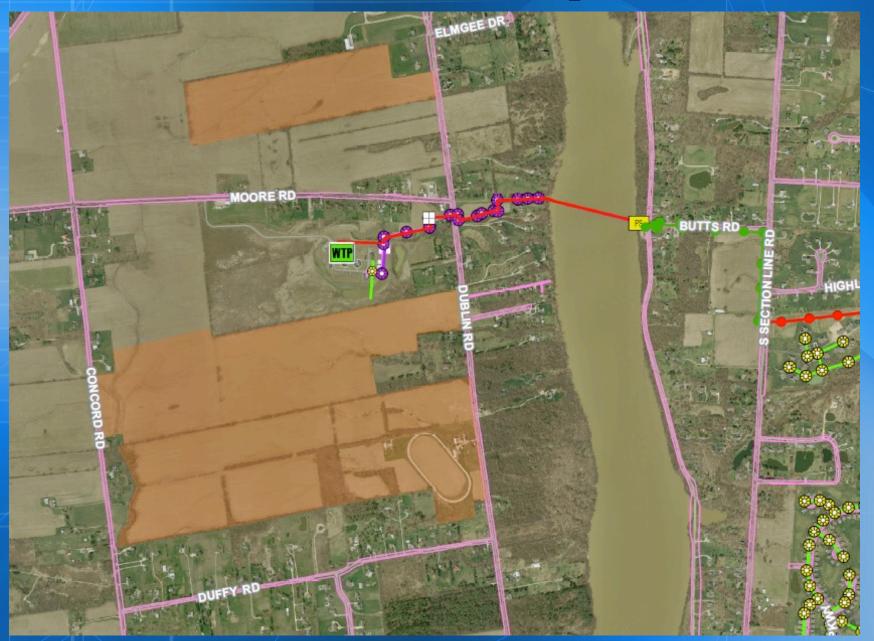


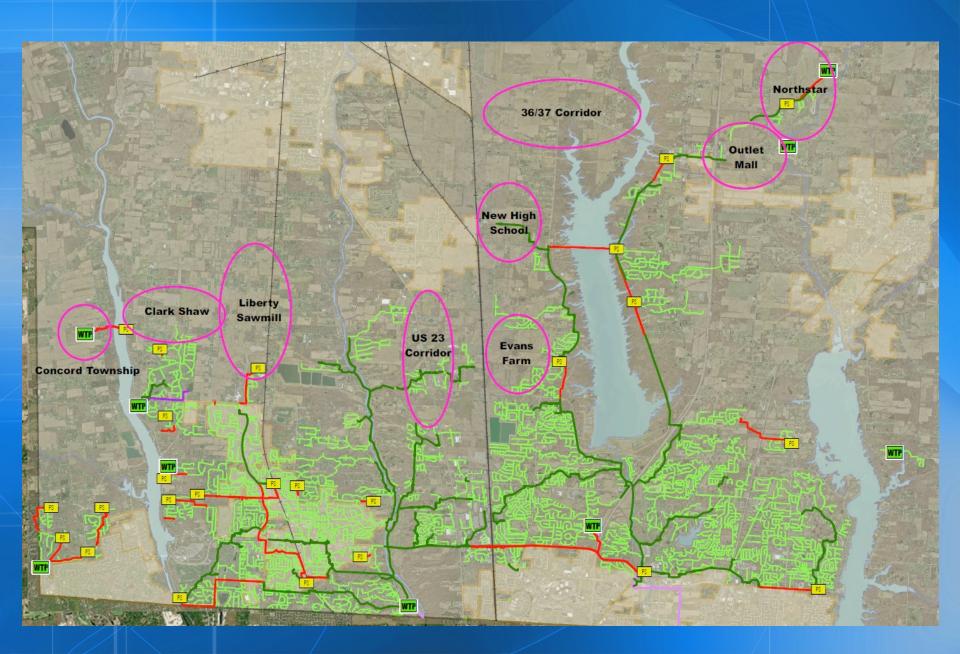




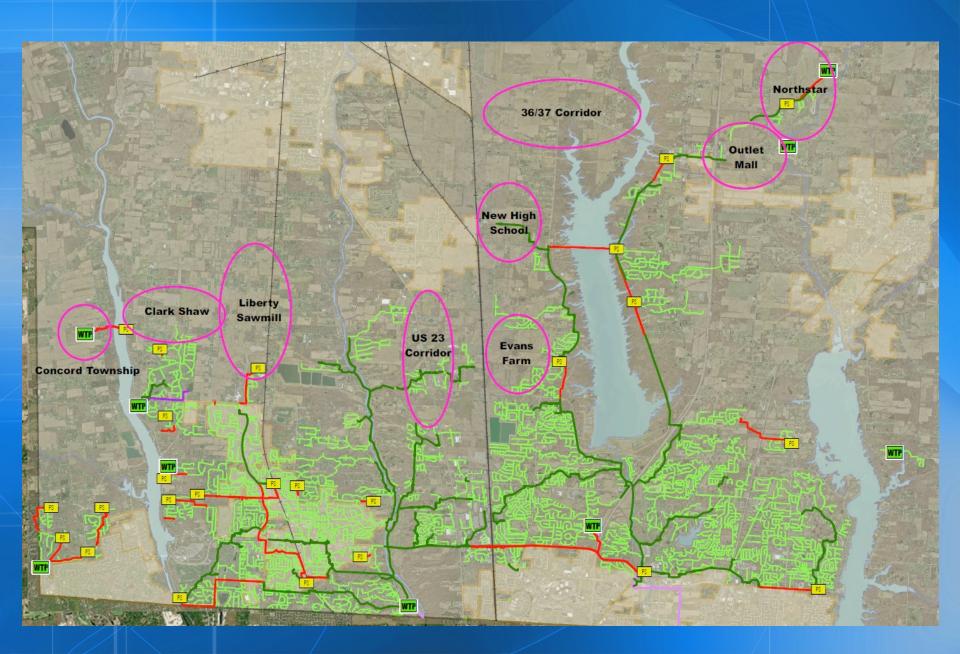


Concord Township

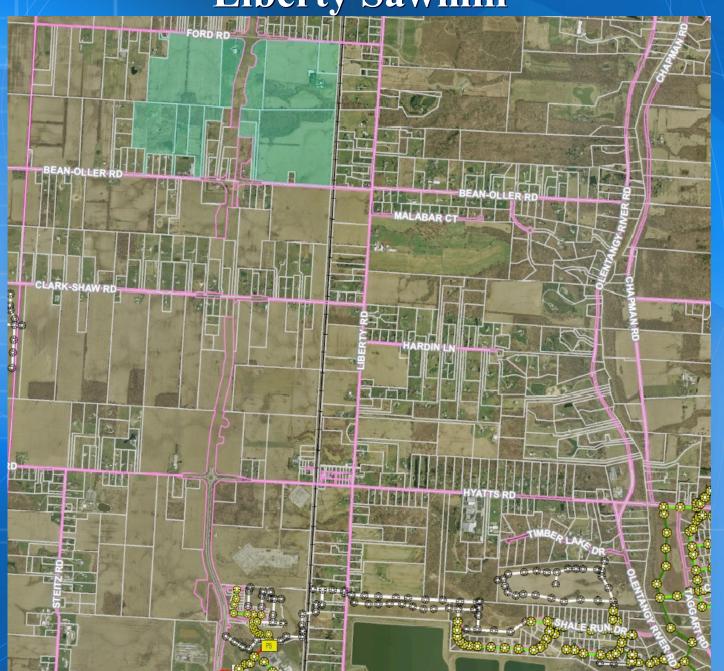






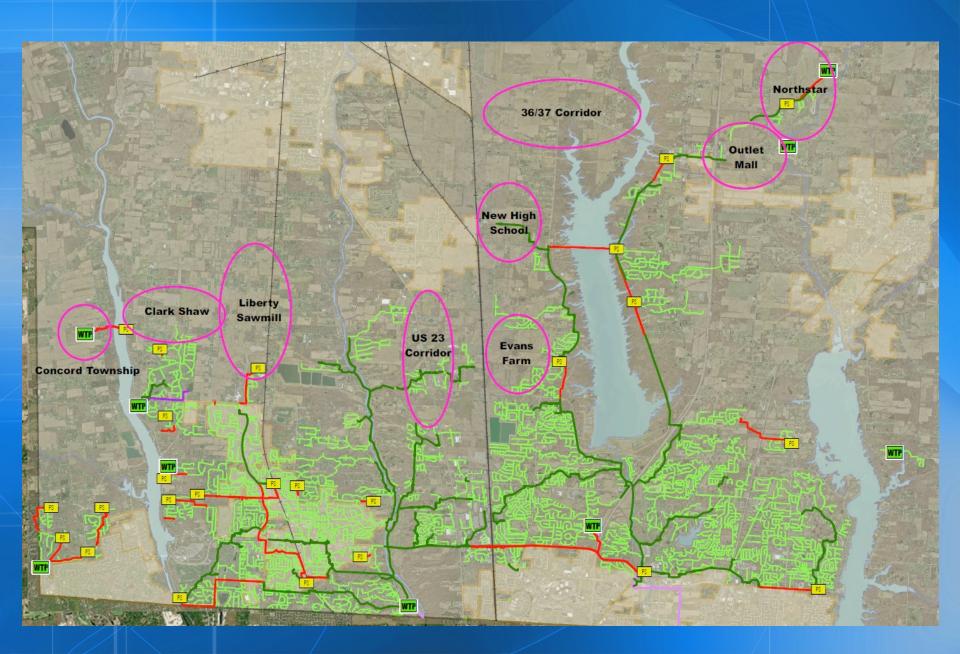


Liberty Sawmill

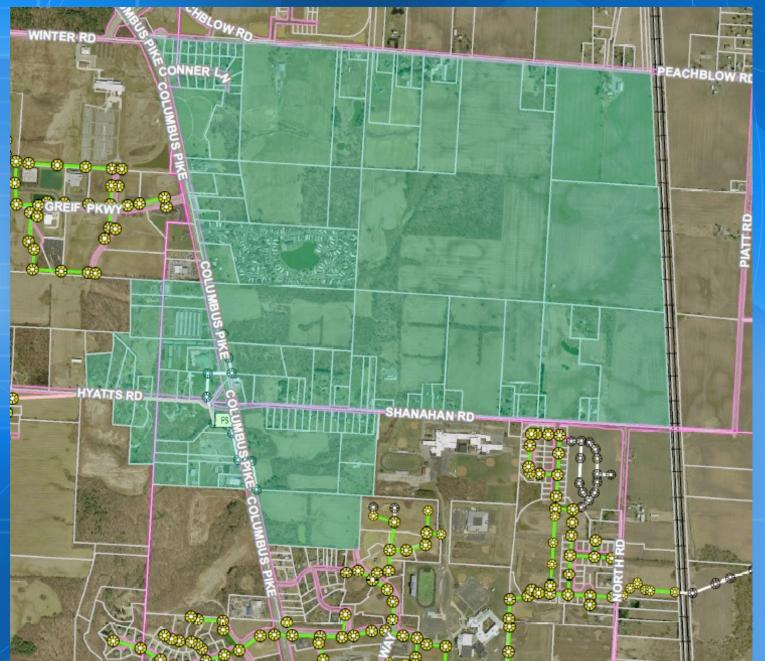


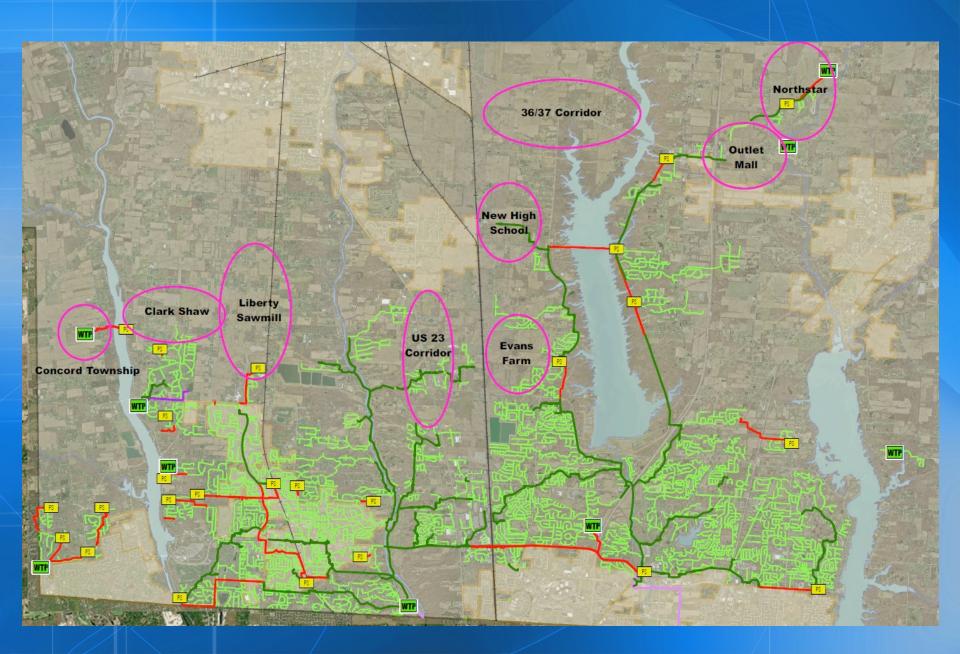
Sawmill Parkway Extension



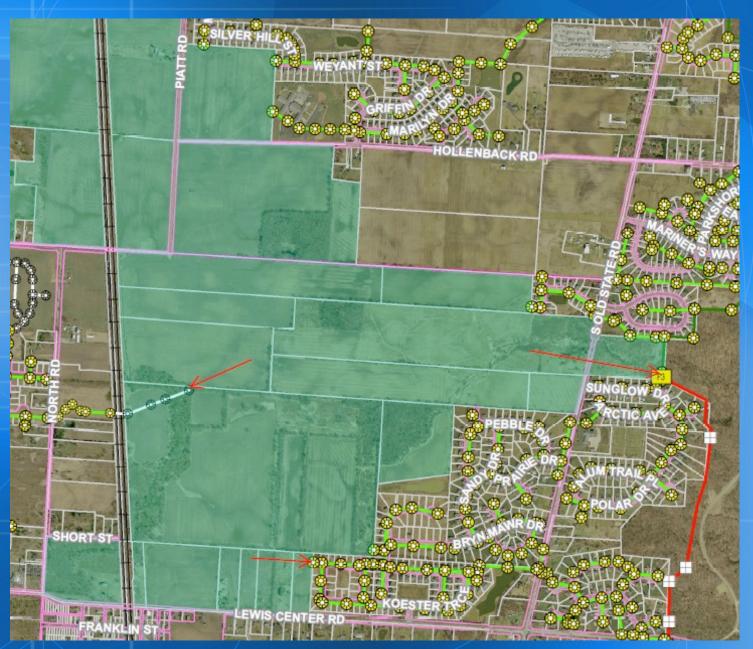


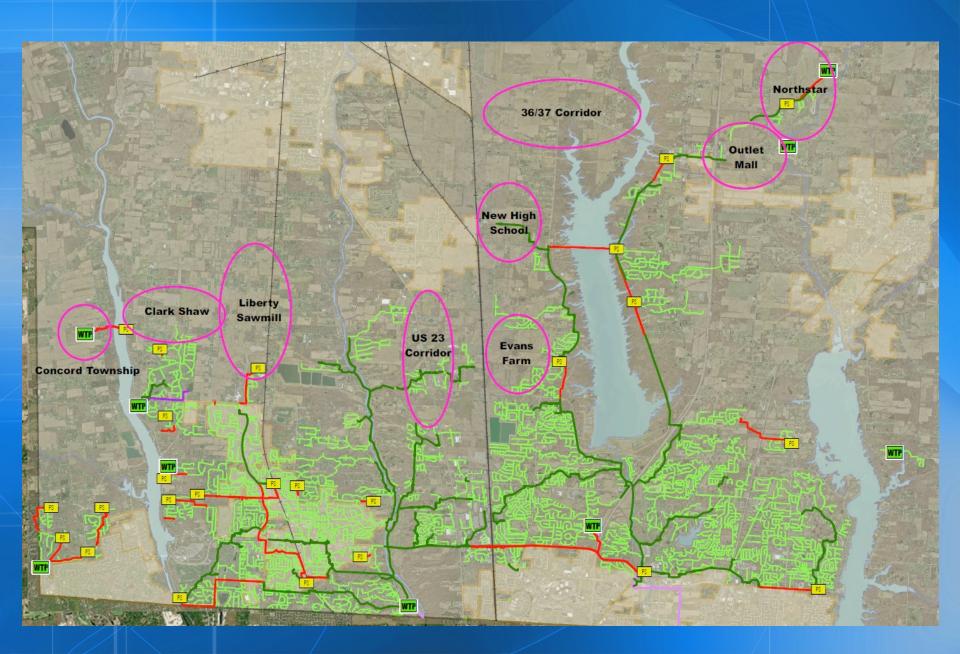
US 23 Corridor



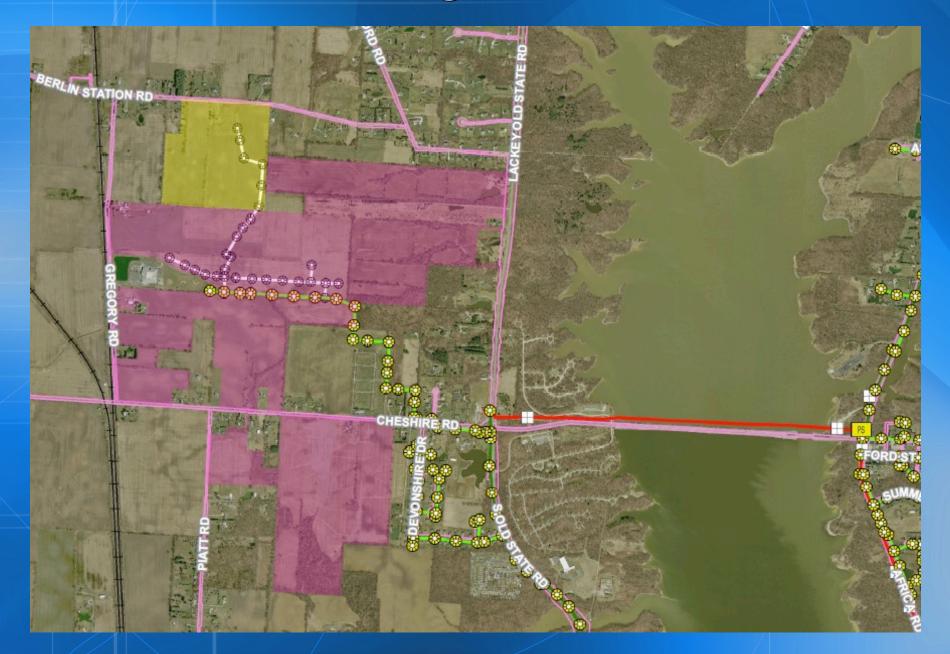


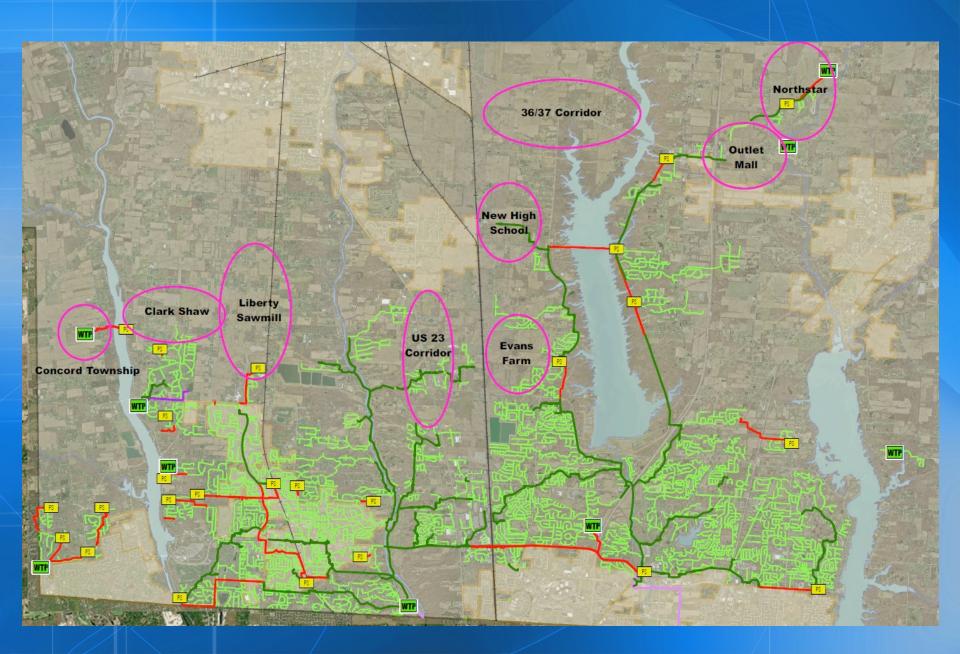
Evans Farm



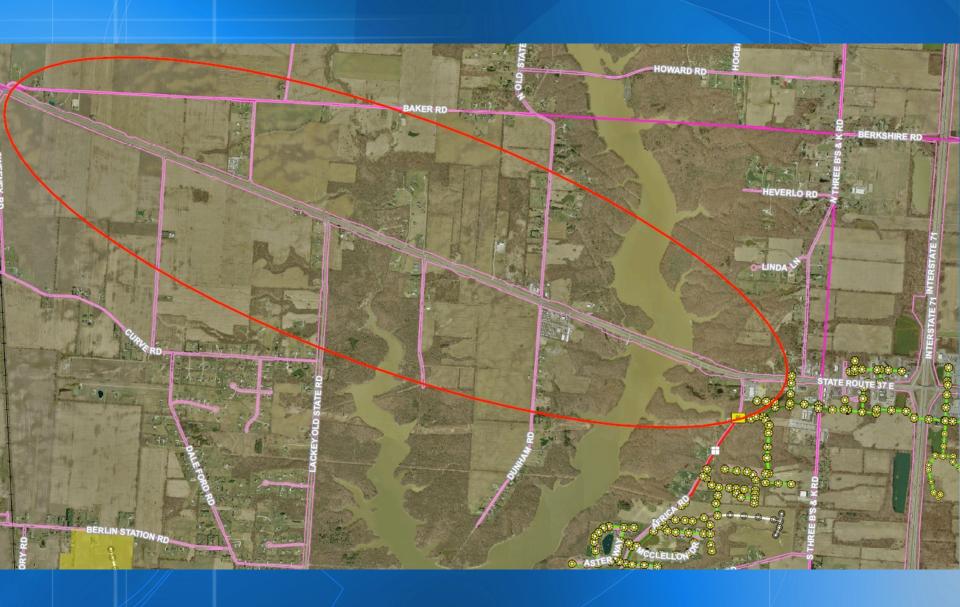


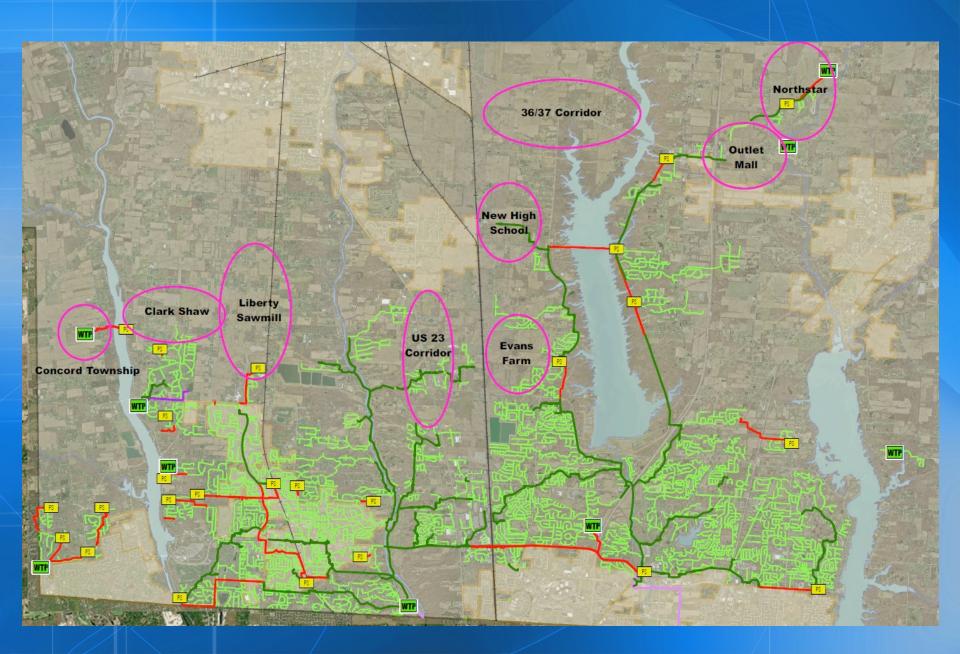
New High School





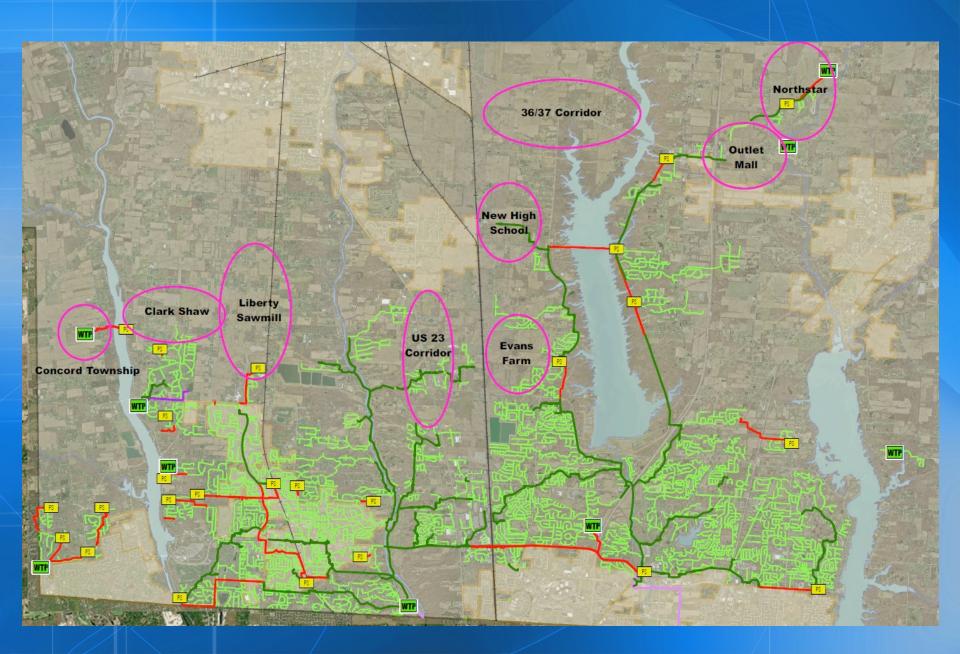
36/37 Corridor



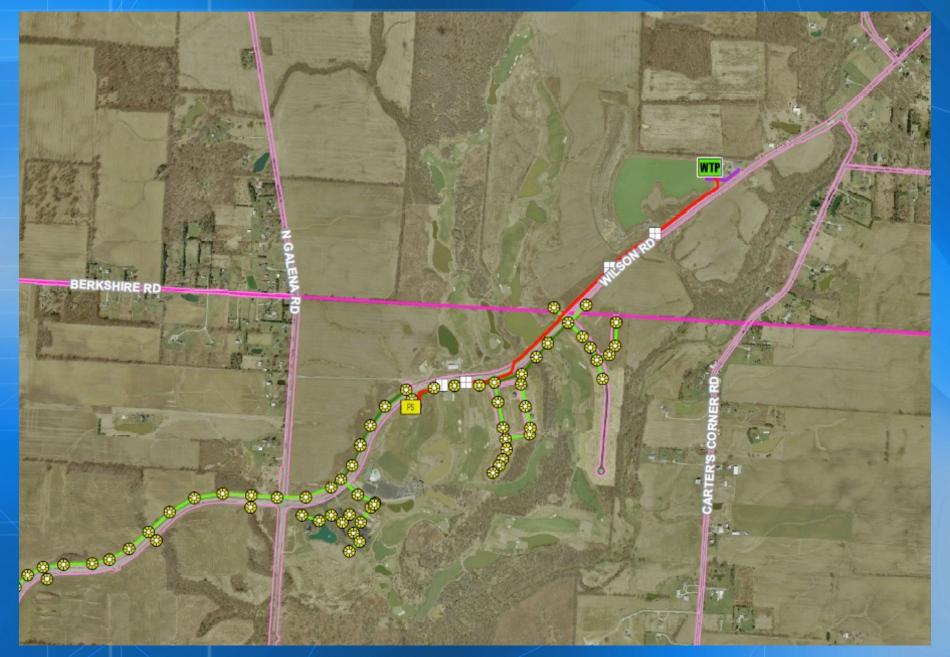


Outlet Mall





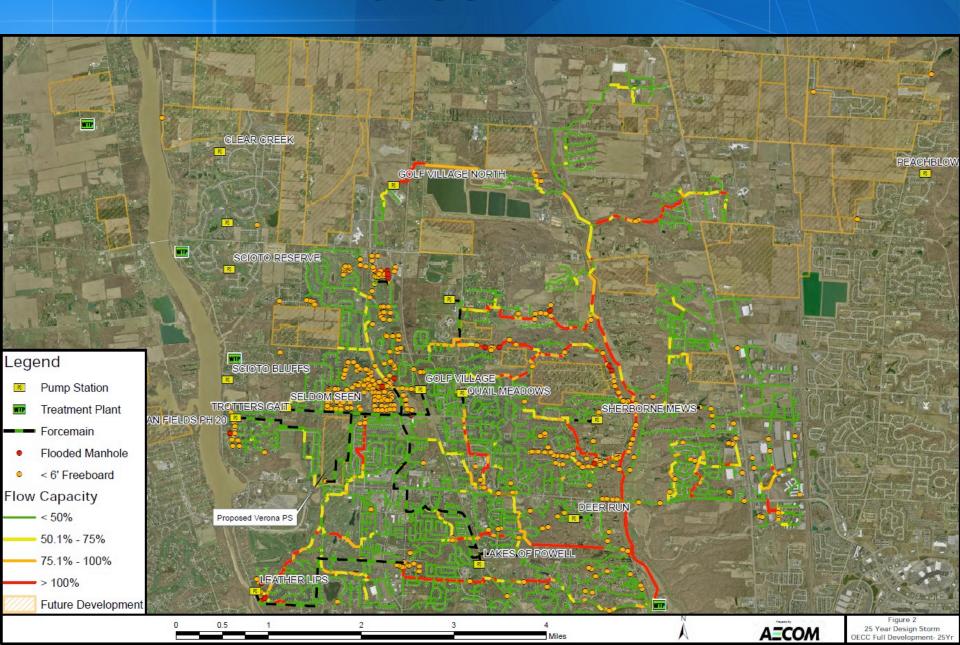
Northstar



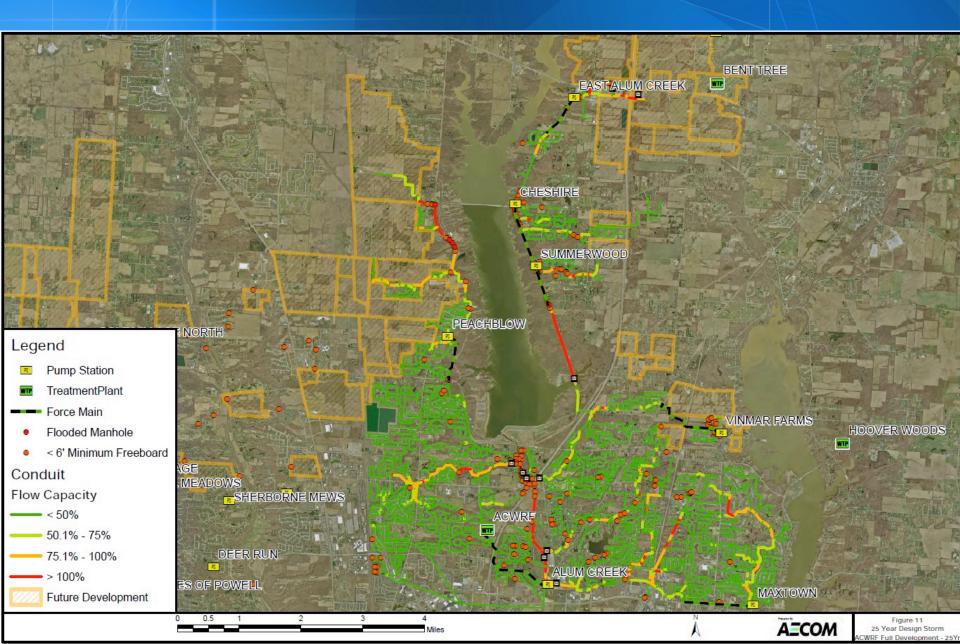
Hydraulic Modeling of Growth Areas

- Immediate Projects
- Short Term Service
- Long-Term Solutions

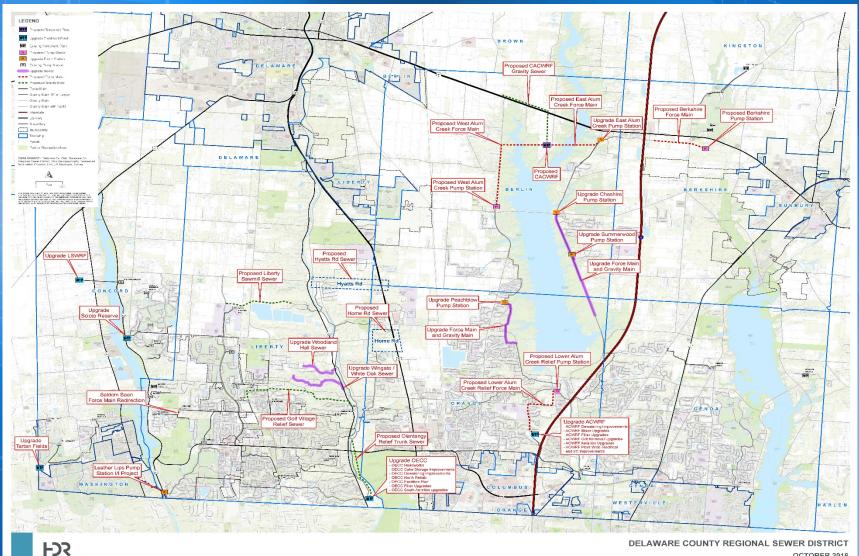
OECC Basin



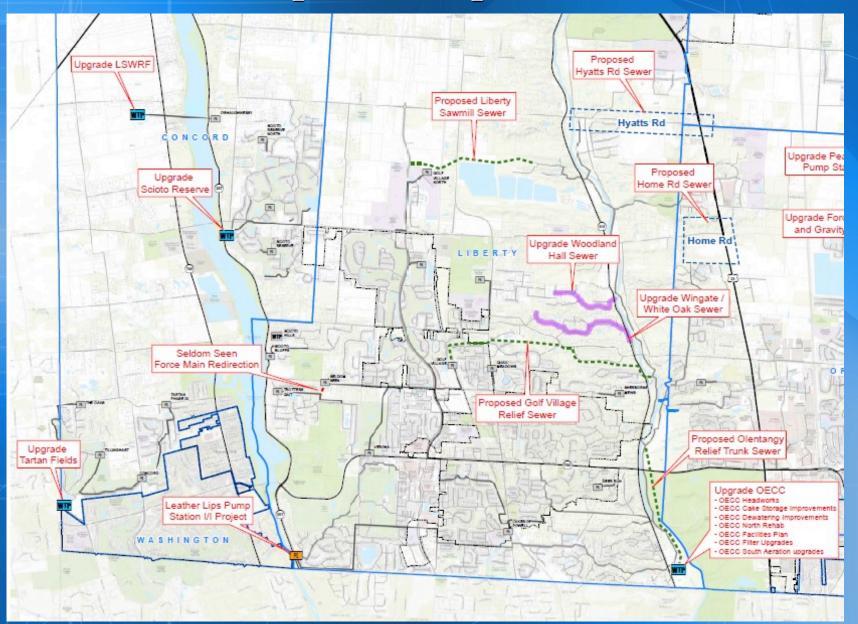
Alum Creek Basin

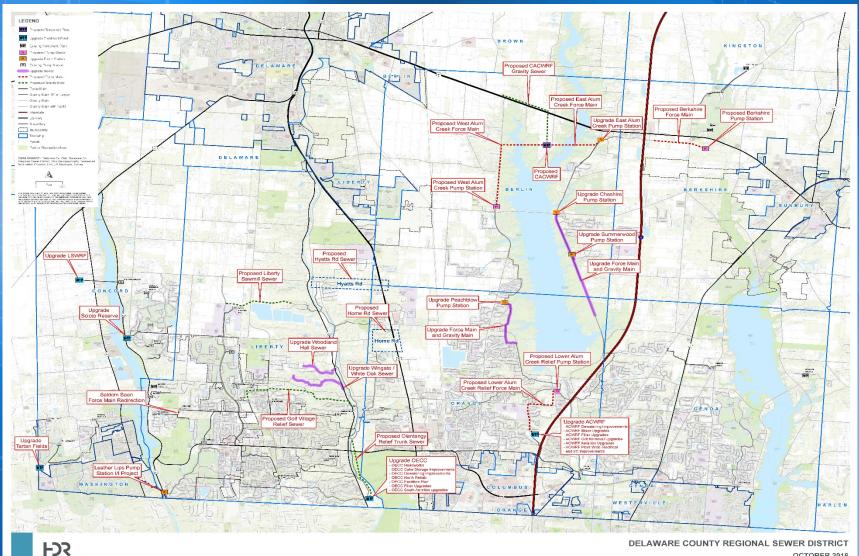


Development Improvements

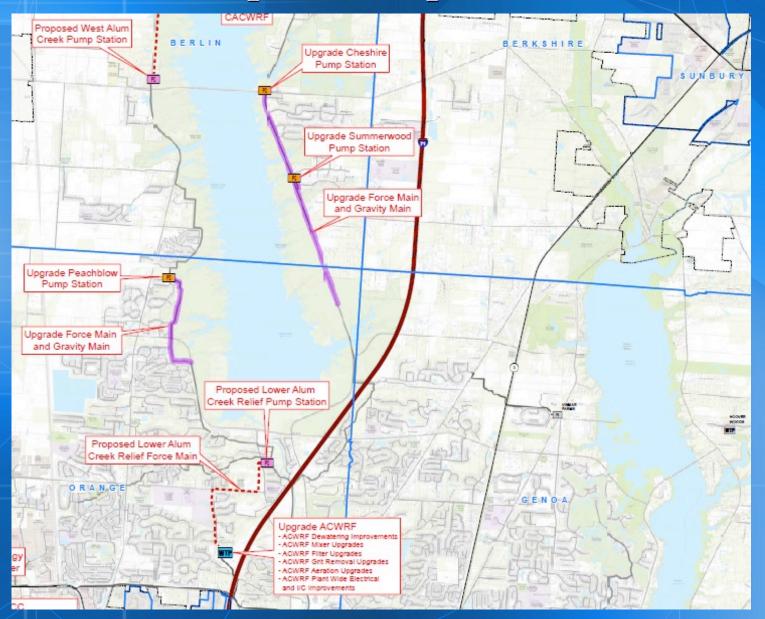


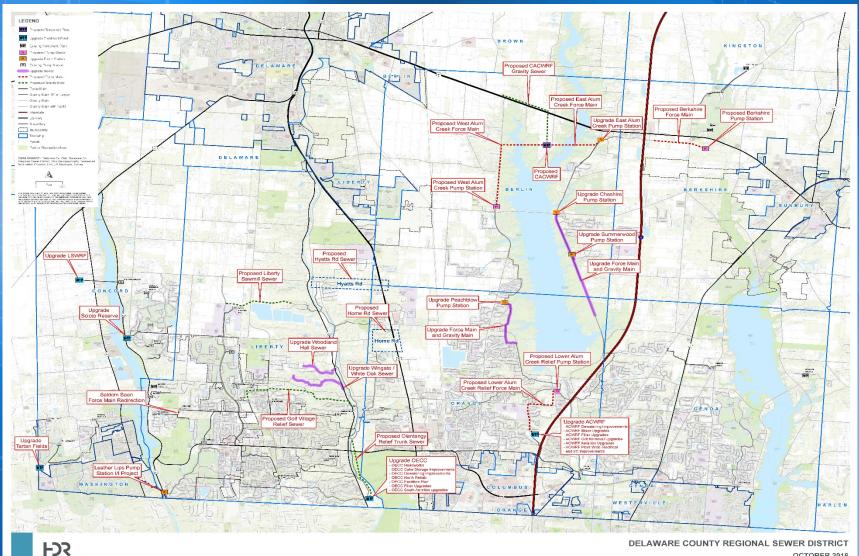
DELAWARE COUNTY REGIONAL SEWER DISTRICT OCTOBER 2016



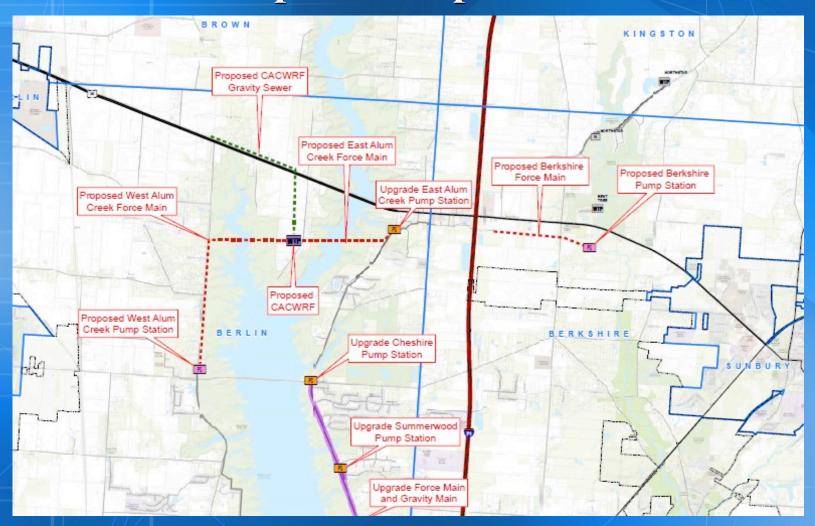


DELAWARE COUNTY REGIONAL SEWER DISTRICT OCTOBER 2016





DELAWARE COUNTY REGIONAL SEWER DISTRICT OCTOBER 2016



Improvements

Peachblow Pump Station and Sewers - \$4M Lower Alum Creek Pump Station - \$8M Liberty Sawmill Sewer (Phase 1 and 2) - \$10M Clarkshaw Project 1, 2, and 3 - \$4M Central Alum Creek WRF and Sewers - \$30M Cheshire Pump Station and Forcemain - \$3M Golf Village Relief Sewer - \$10M Olentangy River Trunk Sewer - \$9M Miscellaneous Improvements - \$6M

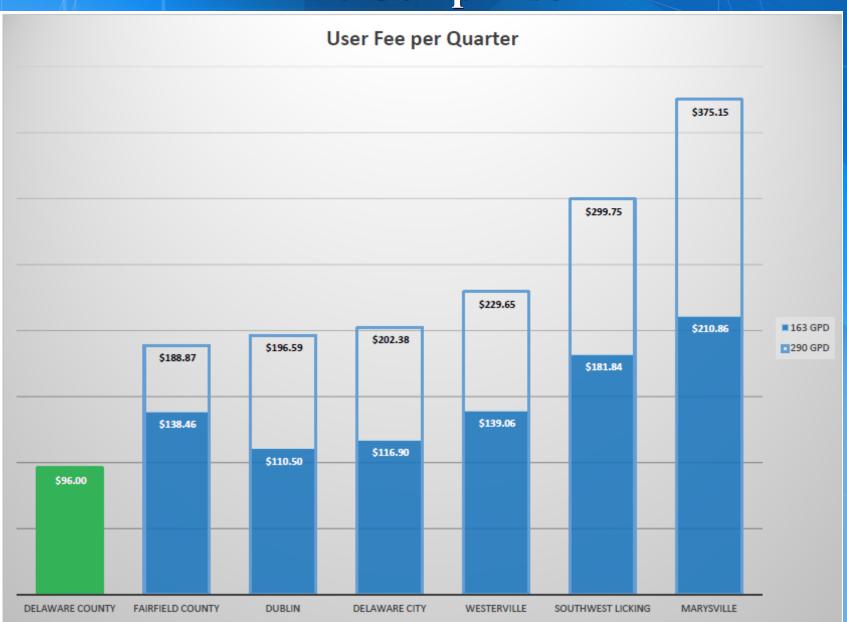
Funding Plan

- Total Cost (2016 Dollars):
- \$55.7M for O&M
- \$97.8M for Development
- \$153.5M Total
- Currently \$39M in Reserves
- Separate Funds for Expenses, Development Capital, and O&M Capital
- Balances can be used for bond coverage
- Implement Alternative Financing Strategies
 - Tax Increment Financing (TIF)
 - Community Authorities
 - Developer Recoupment
 - Performance Contracts

Separate Funds

- Sewer Revenue Fund Monthly Service Charges; Cash Balance of 1 Year Operating Expenses.
- O&M Capital Fund O&M Infrastructure (\$23.7M funded with Cash and \$15M in Debt Issuance)
- Development Capital Fund Development Infrastructure
 - 90% of Connection Fees; 750 new homes annually from 2016-2020 and 2.25% increase beyond.
 - 3% of Monthly Service Fees (per Resolution)
 - \$65.4M Funded with Cash, \$35.5M Debt Issuance, and \$4.1M in TIF Proceeds.

Rate Comparison



Tap Fee Comparison / Surcharges



Rate/Connection Fee Scenarios

| Scenario | #1 | #2 | | #3 |
|------------------------|--|---|---|--|
| Rates | 3% Annual Increase \$33 to \$39 2018 to 2024 | 3% Annual Increase \$33 to \$39 2018 to 2024 | | 3% Annual Increase \$33 to \$39 2018 to 2024 |
| Connection Fees | \$6300 in 2017 \$6600 in 2018 \$6900 in 2019 \$7200 in 2020 | 4 Yr Phase In \$6400 in 2017 \$7000 in 2018 \$7600 in 2019 \$8300 in 2020 | 2 Yr Phase In \$7000 in 2017 \$8200 in 2018 | \$6300 in 2017 \$6700 in 2018 \$7200 in 2019 \$7700 in 2020 |
| Surcharges* | Yes | No | | Reduced Surcharge |
| Advantages | Reduced impact to development costs | • Eliminates reliance on surcharges | | Reduces reliance on surcharges Gradual changes to development costs |
| Disadvantages | Continued tracking of surcharges | Changes development costs (up and down) immediately | | • Tracking of reduced surcharges |

^{*}Surcharges generate approximately \$1M per year

Financial Considerations

- Main Variables are Connections and Capital Costs
 - Is 750 homes the correct estimate?
- Operating Expenses and Monthly Rates are Constant
- Development Cost Impacts with Proposed Increases
 - Timing of Connection Fee Payment?
 - Timing of Increases?
- Potential Risk Allocation Strategies
 - Community Authorities
 - Elimination of Surcharges
 - Other thoughts?????

What's Next?

- Stakeholder Feedback
 - BIA Presentation
 - Chamber Presentation
 - Rotary Presentation
- Adopt Rate and Connection Fee Increases
- Finalize Master Plan
- Update Policies and Procedures Evaluate Rate Structure and Methodology

Questions?

Michael Frommer, P.E. – Executive Director <u>mfrommer@co.delaware.oh.us</u>

Tiffany Maag, P.E. – Deputy Director tmaag@co.delaware.oh.us