

# **2020 Delaware County Engineer Annual Township Meeting**

**December 17, 2020**



# Agenda

## 1:30 Introduction and Pledge of Allegiance

- County Engineer's Services to Townships
- Required Road Maintenance Duties of Townships
- Major County Infrastructure and Development Initiatives

## 2:20 Questions

## 2:30 Adjourn



# Engineer's COVID-19 Procedures

Offices at 50 Channing Street are currently closed to walk-in visitors without appointment for foreseeable future

Please contact us by phone, email or visit our website

Most staff working in office, some remotely

All roadway operations and maintenance processes have been underway through 2020 with special procedures to keep public and staff safe

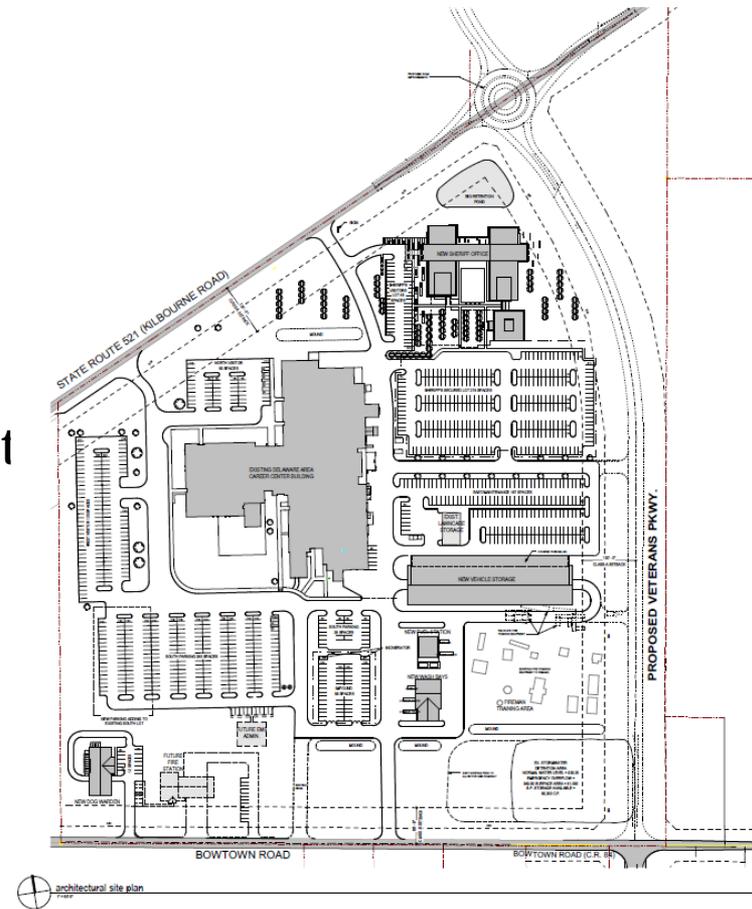


# New County Office Campus

The new Byxbe Campus at the old DACC North Campus.

Move-in planned for 2022:

- County Engineer
- Sanitary Engineer
- Code Compliance
- Regional Planning
- Soil and Water Conservation District
- OSU Extension Office
- Sheriff



# County Engineer Duties Relating to Townships

Request for Engineering Assistance

Roadway Grant Assistance Program (RGAP)

Road Salt and Cooperative Purchasing Contracts

Annual Road Improvement Program



# County Engineer Duties

## O.R.C. § 5543.01 General Powers and Duties of Engineer

County Engineer shall have general charge of...

- Construction, reconstruction, resurfacing or improvement of roads by **boards of township trustees**

County Engineer shall supervise the construction, reconstruction, resurfacing and improvement of...

- Public roads by **boards of trustees** of under 5571.01, 5571.06, 5571.07, 5571.15, 5573.01 to 5.73.15, 5575.02 to 5575.09, and 5577.01.



# Request for Engineering Assistance

Form REA  
Revised November 2014  
Page 1

OFFICE USE ONLY  
# \_\_\_\_\_

**REQUEST FOR ENGINEERING ASSISTANCE**



Delaware County Engineer's Office  
50 Channing Street  
Delaware, Ohio 43015

Date: \_\_\_\_\_ Township: \_\_\_\_\_

The Board of Township Trustees hereby requests the County Engineer's engineering assistance as follows:

Road Name: \_\_\_\_\_ Road #: \_\_\_\_\_

Location: \_\_\_\_\_ miles \_\_\_\_\_ N \_\_\_\_\_ S \_\_\_\_\_ E \_\_\_\_\_ W \_\_\_\_\_ of \_\_\_\_\_ (nearest intersection)

or address # \_\_\_\_\_ or between \_\_\_\_\_ and \_\_\_\_\_ (roads).

**ROADWAY/TRAFFIC SAFETY:**

- Speed limit study
- Intersection traffic study
- Sight distance study
- Guardrail or barrier study

**CULVERTS:**

- Culvert safety inspection
- Culvert hydraulic analysis (pipe sizing)
- Force-account estimate
- County construction of township culvert

**ROADWAY PLANNING AND MAINTENANCE:**

- Pavement resurfacing or repair (attach road list)
- Roadway widening or other improvement study
- Sidewalk or curb ramp study
- OPWC funding application

**DITCH/DRAINAGE:**

- Ditch maintenance or cleanout

OTHER (describe below)

Include a brief description of what the Township is requesting. If there are multiple locations, list them below:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

County Engineer is asked to respond to the following person who will be the point of contact in reference to this request:

Name \_\_\_\_\_ Title \_\_\_\_\_

Address \_\_\_\_\_ City \_\_\_\_\_ Zip \_\_\_\_\_

Phone \_\_\_\_\_ Fax or email \_\_\_\_\_

Township Trustee \_\_\_\_\_ Date \_\_\_\_\_

Township Trustee \_\_\_\_\_ Date \_\_\_\_\_

Township Trustee \_\_\_\_\_ Date \_\_\_\_\_

Township Administrator\* \_\_\_\_\_ Date \_\_\_\_\_

A minimum of two Trustee signatures is required.  
\* A copy of resolution requesting engineering assistance by the Board along with this form signed by Township Administrator is acceptable.

Mail, email or fax the signed and completed form to:  
Delaware County Engineer's Office  
Attn: Doug Riedel, P.E.  
50 Channing Street  
Delaware, OH 43015  
Fax: 740-833-2399  
Email: [driedel@co.delaware.oh.us](mailto:driedel@co.delaware.oh.us)

See instructions on the following pages for more information

Please submit a Request for Engineering Assistance (REA) form to Doug Riedel

Form signed by majority of board of trustees

- or -

Signed by Township Administrator with consent of majority of board of trustees



# Roadway Grant Assistance Program

Roadway Grant Enhancement Program (RGAP) established by the County Commissioners September 9, 2019 (beginning with grant awards after January 1, 2020)

Replaces the old Grant Enhancement Program

Part of county's commitment to assist local agencies in Delaware County from proceeds of the \$5 county permissive license fee (took effect January 1, 2020)

3:1 match for local contribution by city, village or township with majority of its population in Delaware County

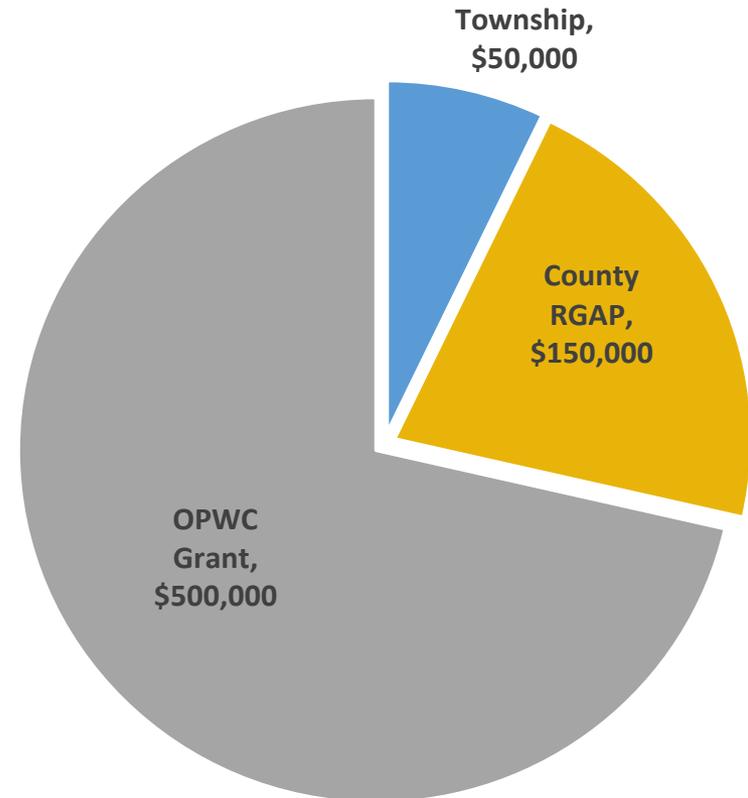
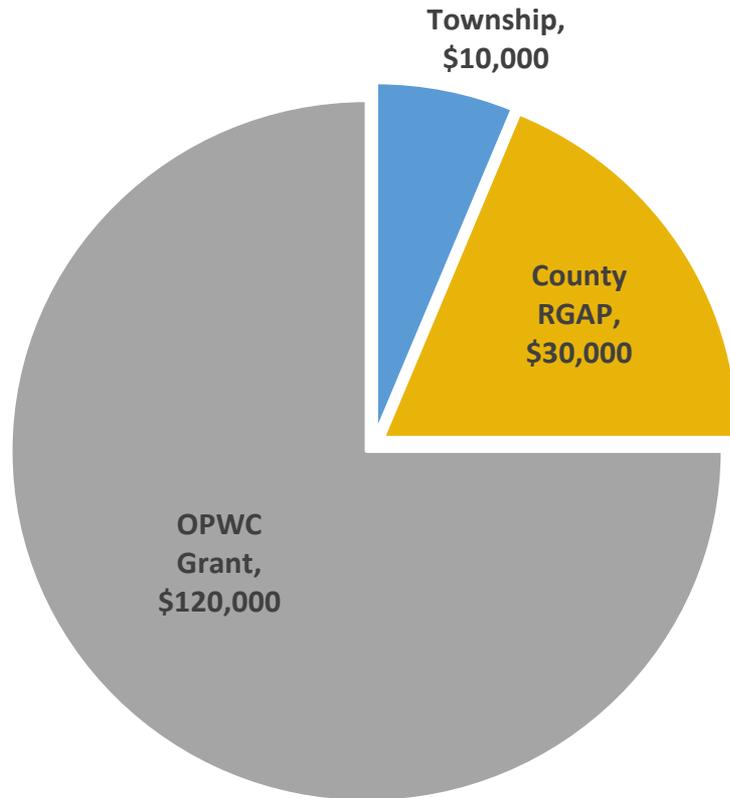
RGAP grants are capped at \$150,000 per agency, per year



# Roadway Grant Assistance Program

Example 1: \$160,000 project

Example 2: \$700,000 project



# Road Salt

Salt to townships at **\$88.77/ton** through April 2021

No salt was ordered for winter 2020-21.

10,000+ tons in inventory as of November 30, 2020

## Current storage locations

- Delaware - US Route 42 North                      7,000 tons
- Berkshire Township                                      3,000 tons

New 3,000 ton storage facility on Sawmill Parkway operational May 2021!



# Annual Road Improvement Program

Combined competitively bid contract for County and Township paving and surface treatments

County commissioners will award the county work to the lowest and best bidder per R.C. 307.90

Township must award to the same bidder to be part of the Program. Each township holds a separate contract with the Contractor.

County Engineer will administer/manage construction with a designated representative from each township



# **Annual Road Improvement Program**

2021 program requests were due beginning of December!

We will provide your estimates by **December 23**.

Please return your signed estimate by **January 29!!!**

Contract Advertisement: **March 26, 2021**

Award: **April 13, 2021**

All curb ramps must be ADA compliant prior to commencing work under this contract!



# County Cooperative Purchasing

Delaware County Cooperative Purchasing Contracts available to townships:

To be awarded in **January 2021:**

- Curb and Sidewalk Construction
- Guardrail installation
- Tree Clearing
- Pavement Markings

To be awarded in **March 2021:**

- Hot-mix Asphalt Material
- Liquid Asphalt Materials (emulsions for chip sealing)
- Cold Mix



# State Purchasing Contracts

## Ohio Department of Administrative Services

- Vehicles
- Equipment
- Furnishings
- Various Materials

## ODOT Contracts

- Guardrail
- Sign Boards
- Pipe/Culvert Slip Lining
- Crack sealing



# Township Road Maintenance Responsibilities

Obstructions in the Right of Way

Roadside Drainage

Bridges and Culverts

Road Signs

Winter Road Maintenance

Township Road Improvements



# Obstructions in the Right of Way

O.R.C. § 5543.14 grants specific authority for removing trees and brush:

- ... the board of township trustees **may** trim or remove any and all trees, shrubs, and other vegetation growing in or encroaching onto the right-of-way of the township roads of its township, as is necessary in the engineer's or board's judgment to facilitate the right of the public to improvement and maintenance of, and uninterrupted travel on, county and township roads.
- ... board is **not required** to compensate the abutting landowner for trimming or removing such trees, shrubs, and other vegetation as is necessary to facilitate these rights.



# Obstructions in the Right of Way

## Blocked Culverts or Drainage Obstructions

- Can be removed per ORC 5571.14
- Must be for a public necessity
- Not for an isolated private drainage problem



# Roadside Drainage

Road ditches are considered part to the road and subject to the various road improvement statutes

ORC 5571.15 Authorizes the board to “improve the drainage of water from the **surface of the road**”



# Roadside Drainage

No authorization in Ohio Law for townships to:

- Improve drainage from private property adjacent to the road
- Make drainage improvements beyond those related to a public road
- Intervene in private property drainage problems or disputes



# Bridges and Culverts

## Structures on Township Roads

- Bridges – Span or diameter greater than 10 feet (County)
- Culverts – Span or Diameter of less than 10 feet (Township)
- County participates in Township Culvert projects
- Need advance notice to include your culvert in our budget – October 1 of prior year

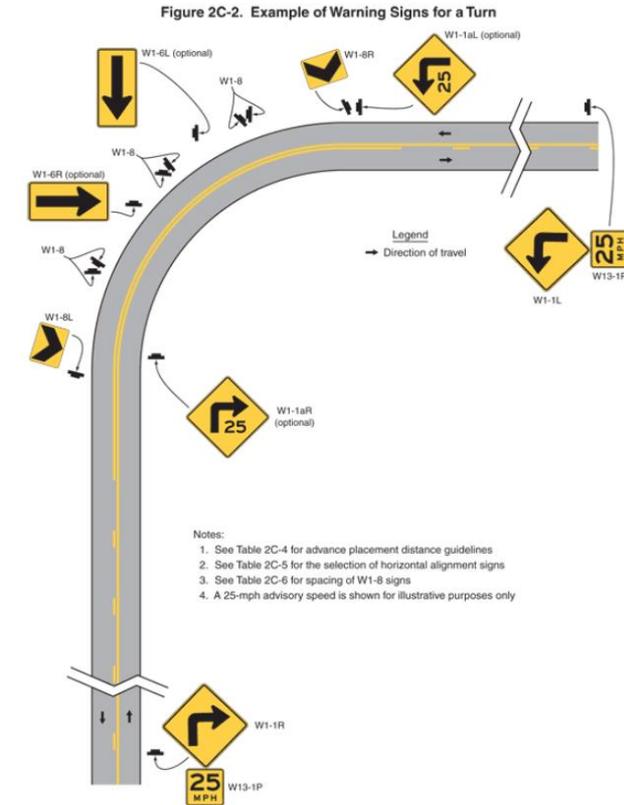


# Curve Signs – Now Required!

Ohio MUTCD requires curve signs for roads with ADT over 1000 vehicles/day

What does that mean???

- All curves which require warning signs must comply with the OMUTCD
- If the advisory speed is 10 mph under the posted speed, curve signs are required
- Chevrons required if difference is 15 mph
- Roads with under 1000 vehicles per day are exempt from the requirement; however, signing is still recommended!



# Sign Maintenance

You **must** have a management method in-place to maintain minimum sign retro-reflectivity (since June 13, 2014)

- Systematic replacement at a certain interval (e.g. 10 years) is an acceptable type of maintenance method!

**All regulatory signs** (stop, yield and black & white signs)

- Stop, yield, speed limit, lane control, etc.

**All warning signs** (yellow/black and orange/black signs)

- Curve and intersection ahead signs, advisory speed, etc.

**All street name signs** (only certain colors are allowed)

- White lettering with either green, blue or brown background
- Black lettering with white background



# Winter Road Maintenance

## O.R.C. § 5571.08 Snow Removal

...the board of township trustees **shall** cause all the township roads within the township to be kept free from obstruction by snow.



# Township Road Improvements

## O.R.C. § 5571.01

A board of township trustees **may** construct, reconstruct, resurface, or improve any public road or part thereof under its jurisdiction...

## O.R.C. § 5571.02

The board of township trustees **shall** have control of the township roads of its township ... and shall keep them in good repair.



# Major Upcoming Road Projects

Home Road East of U.S. 23  
East Powell Road, Phase 2  
Worthington Road, Phase 2  
I-71 & US 36/SR 37 Interchange  
Big Walnut Interchange  
Orange Road Railroad Grade Separation  
Byxbe Parkway

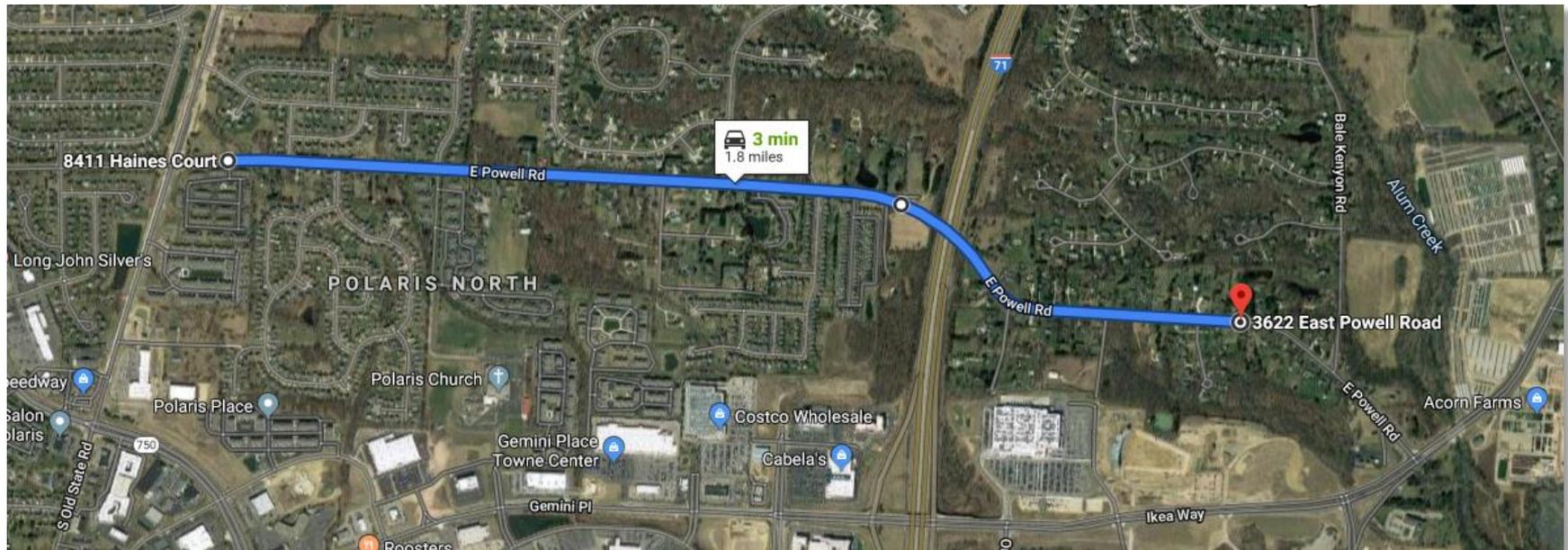




# East Powell Road, Phase 2

\$8.6 million project to upgrade to 3 lanes and install 4 new traffic signals.

- All work was completed east of I-71 Overpass fall 2020.
- Old State to I-71 to be completed by November 2021.

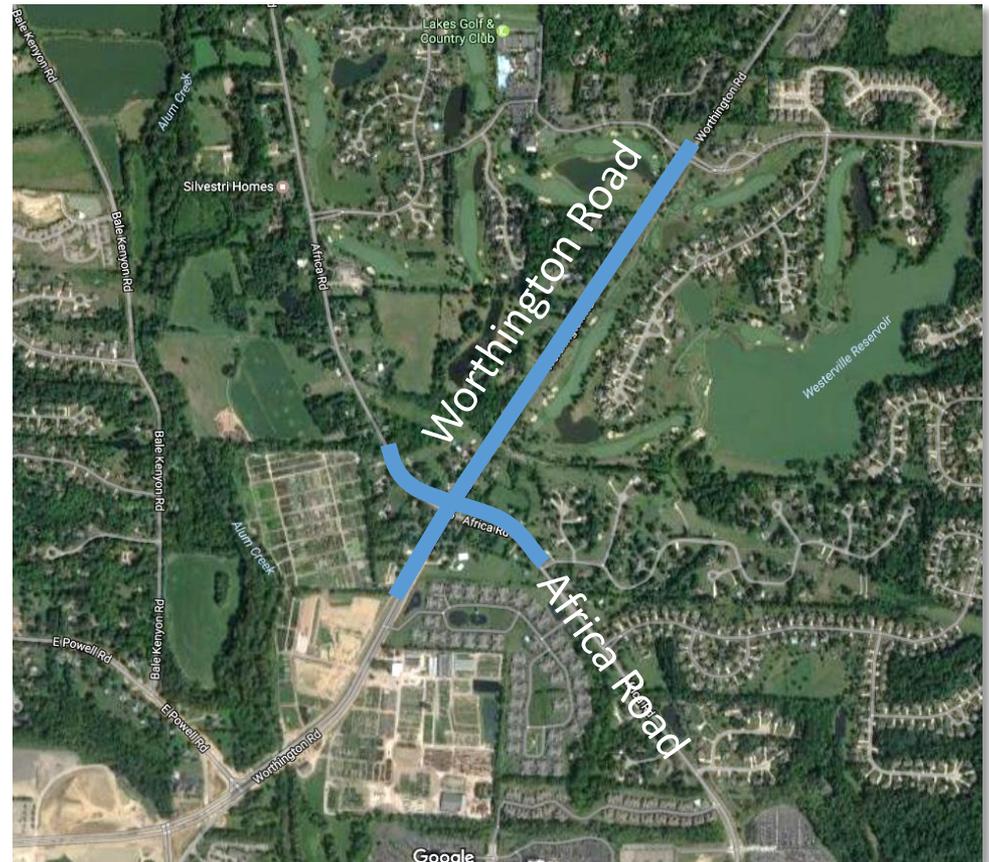


# Worthington Road, Phase 2

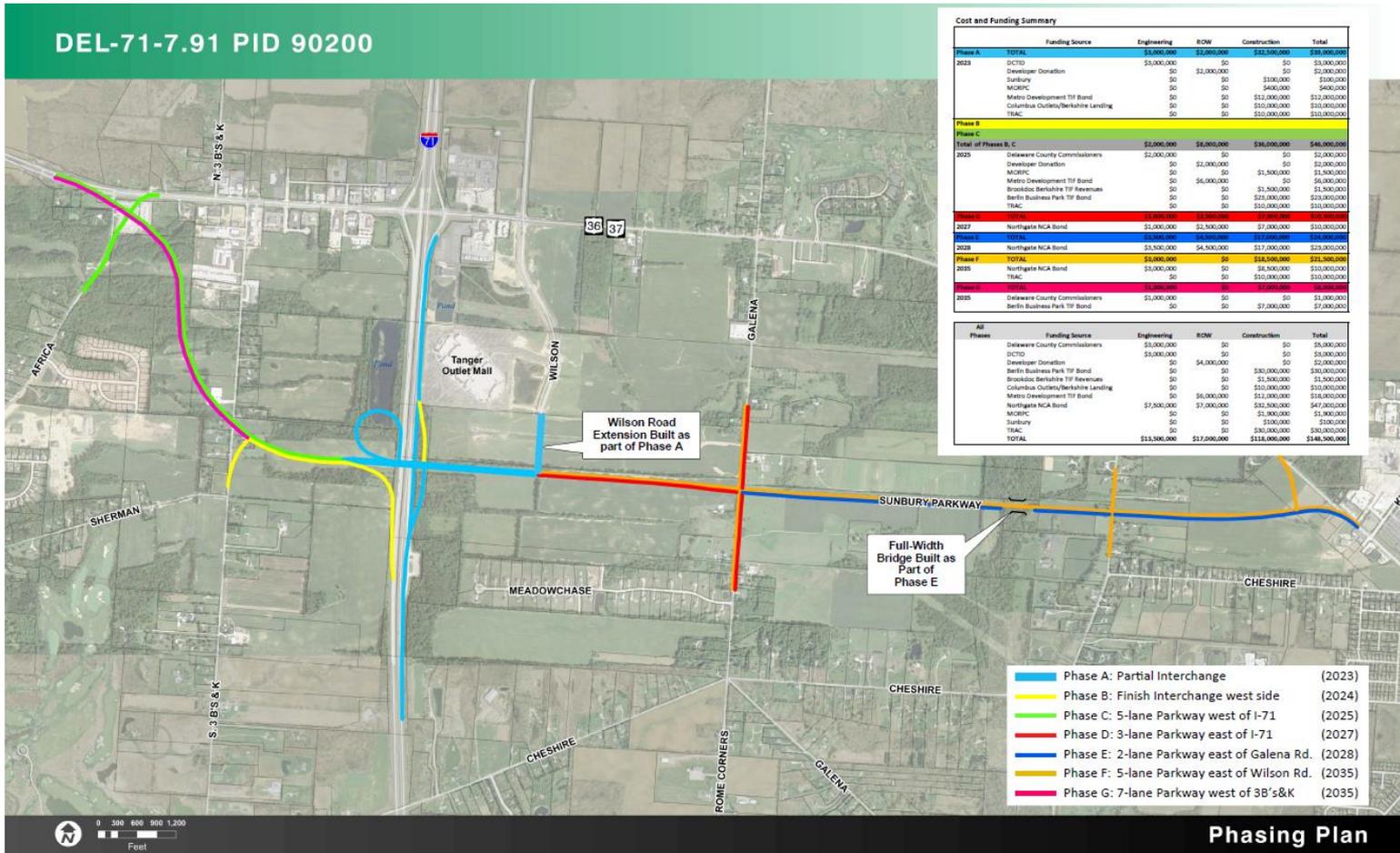
**\$6 million** expansion of Worthington Road and Africa Road intersection.

Widening of Worthington Road and flattening the grade of road north to Highland Lakes Avenue.

Completion spring 2022.



# I-71 & US 36/SR 37 Interchange



**Cost and Funding Summary**

Phase	TOTAL	Funding Source	Engineering	R/W	Construction	Total
Phase A	TOTAL		\$3,000,000	\$2,000,000	\$12,000,000	\$17,000,000
2023	DCTD		\$3,000,000	\$0	\$0	\$3,000,000
	Developer Donation		\$0	\$2,000,000	\$0	\$2,000,000
	Sunbury		\$0	\$0	\$100,000	\$100,000
	MORPC		\$0	\$0	\$400,000	\$400,000
	Metro Development TIF Bond		\$0	\$0	\$12,000,000	\$12,000,000
	Columbia Outlets/Berkshire Landing		\$0	\$0	\$10,000,000	\$10,000,000
	TRAC		\$0	\$0	\$10,000,000	\$10,000,000
Phase B	TOTAL		\$0	\$0	\$0	\$0
Phase C	TOTAL		\$2,000,000	\$4,000,000	\$36,000,000	\$42,000,000
Total of Phases B, C			\$2,000,000	\$4,000,000	\$36,000,000	\$42,000,000
2023	Delaware County Commissioners		\$2,000,000	\$0	\$0	\$2,000,000
	Developer Donation		\$0	\$2,000,000	\$0	\$2,000,000
	MORPC		\$0	\$0	\$1,500,000	\$1,500,000
	Metro Development TIF Bond		\$0	\$0	\$6,000,000	\$6,000,000
	Brookside/Berkshire TIF Revenues		\$0	\$0	\$1,500,000	\$1,500,000
	Berlin Business Park TIF Bond		\$0	\$0	\$22,000,000	\$22,000,000
	TRAC		\$0	\$0	\$10,000,000	\$10,000,000
2027	Northgate NCA Bond		\$0	\$0	\$0	\$0
2027	Northgate NCA Bond		\$2,000,000	\$1,500,000	\$7,000,000	\$10,500,000
Phase D	TOTAL		\$0	\$0	\$0	\$0
2028	Northgate NCA Bond		\$0	\$0	\$0	\$0
Phase E	TOTAL		\$0	\$0	\$0	\$0
2025	Northgate NCA Bond		\$0	\$0	\$0	\$0
2025	TRAC		\$0	\$0	\$0	\$0
2025	Delaware County Commissioners		\$0	\$0	\$0	\$0
2025	Berlin Business Park TIF Bond		\$0	\$0	\$7,000,000	\$7,000,000
All Phases	TOTAL		\$11,000,000	\$17,000,000	\$118,000,000	\$146,000,000

- █ Phase A: Partial Interchange (2023)
- █ Phase B: Finish Interchange west side (2024)
- █ Phase C: 5-lane Parkway west of I-71 (2025)
- █ Phase D: 3-lane Parkway east of I-71 (2027)
- █ Phase E: 2-lane Parkway east of Galena Rd. (2028)
- █ Phase F: 5-lane Parkway east of Wilson Rd. (2035)
- █ Phase G: 7-lane Parkway west of 3B'S&K (2035)

**Phasing Plan**



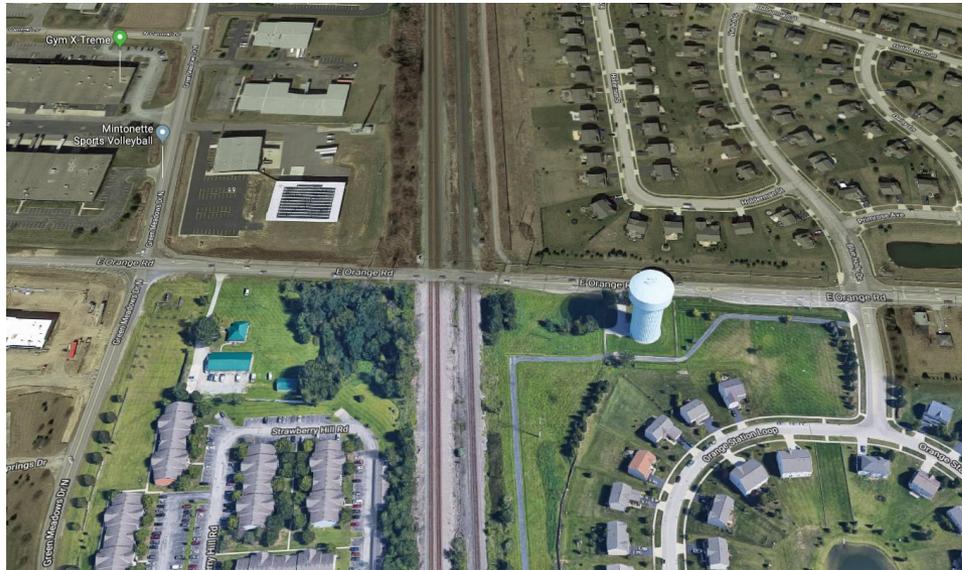
County Engineer  
**DELAWARE COUNTY Ohio**

# Big Walnut Interchange



# Orange Road RR Grade Separation

Underpass on Orange Road at the CSX/NS Railroads  
Estimated cost: \$18–20 million (2026–27)



# Byxbe Parkway

Phase 1 includes **0.75 miles** of new 5-lane roadway

**\$4 million** estimated cost

Construction 2022-23



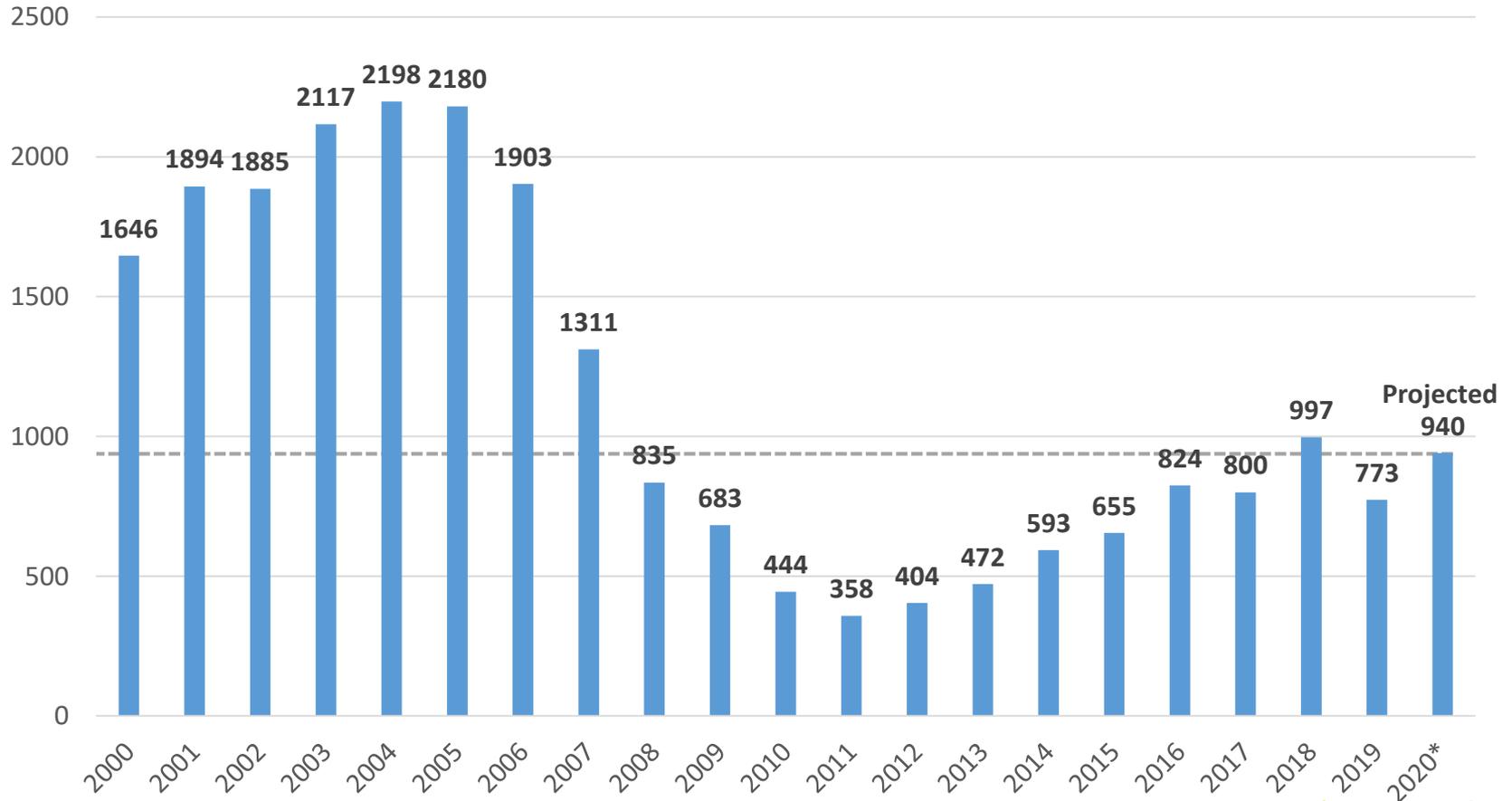
# Development News

Residential Building Permits  
Cluster Mailbox Units



# Residential Building Permits

(Unincorporated Areas)



# Cluster Mailbox Units

Now being required by USPS in most single-family neighborhoods.

DCEO is working with Regional Planning Commission to develop standards for implementation.

1. Ensure adequate on-street stopping area in both directions
2. Provide ADA accessible curb ramps
3. Avoid placing in front of homes (place along open spaces where possible)
4. Place strategically for most pickups inbound to neighborhood in afternoon



# Economic Development Projects

Orange Township US Route 23 Zoning Overlay

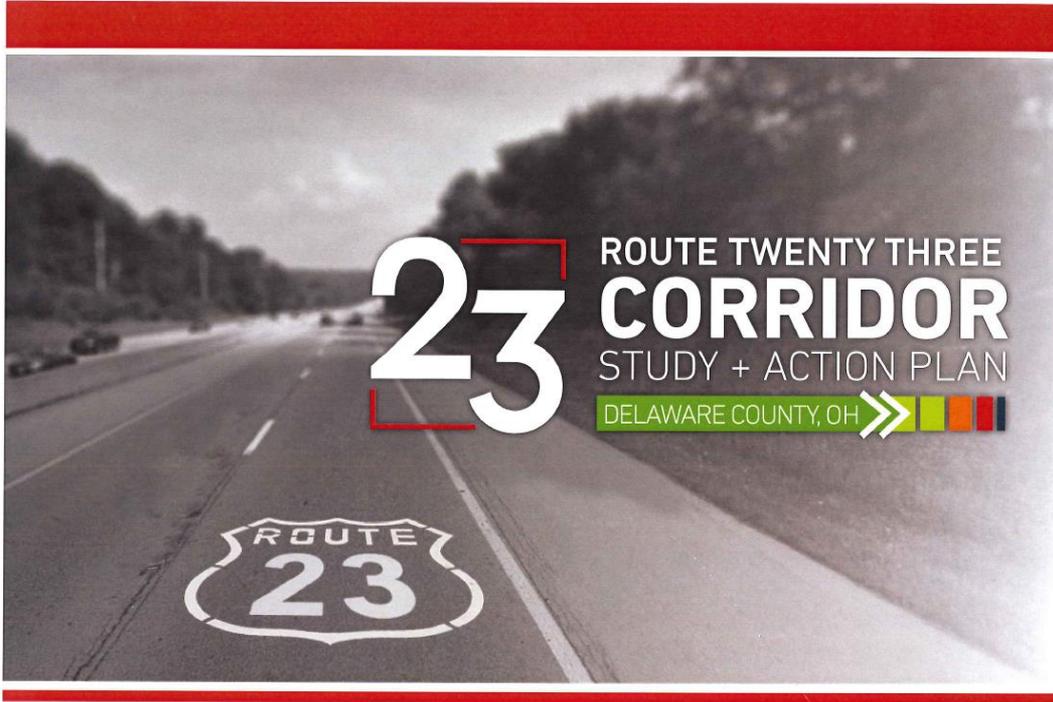
Berlin Business Park Zoning Overlay

Liberty Township Zoning Overlay POD 18

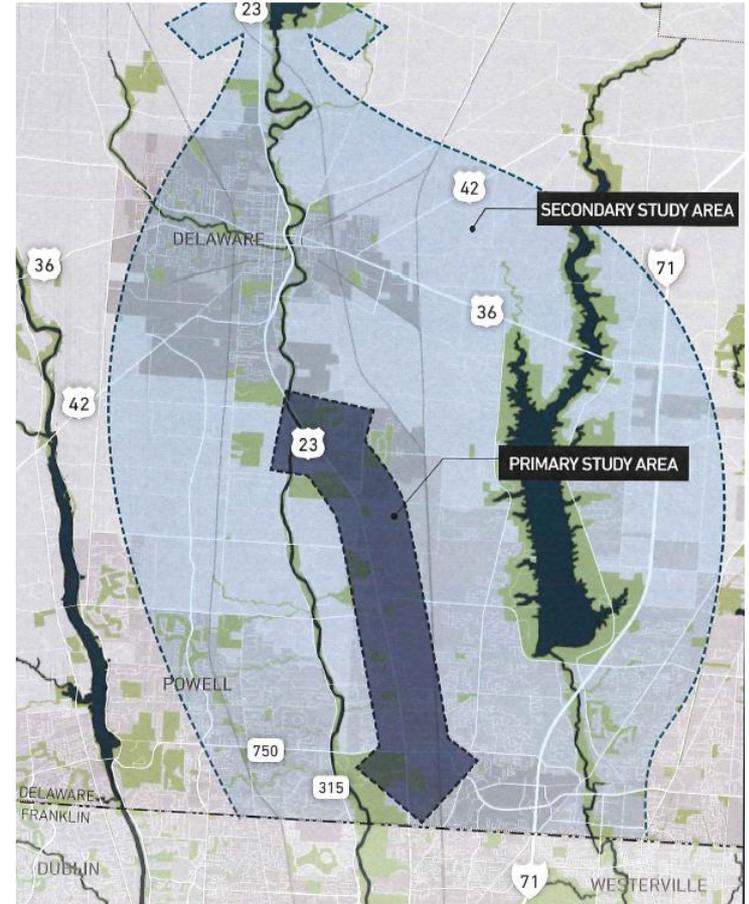
Powell OSU Ambulatory Care Facility



# Orange Township U.S. 23 Corridor

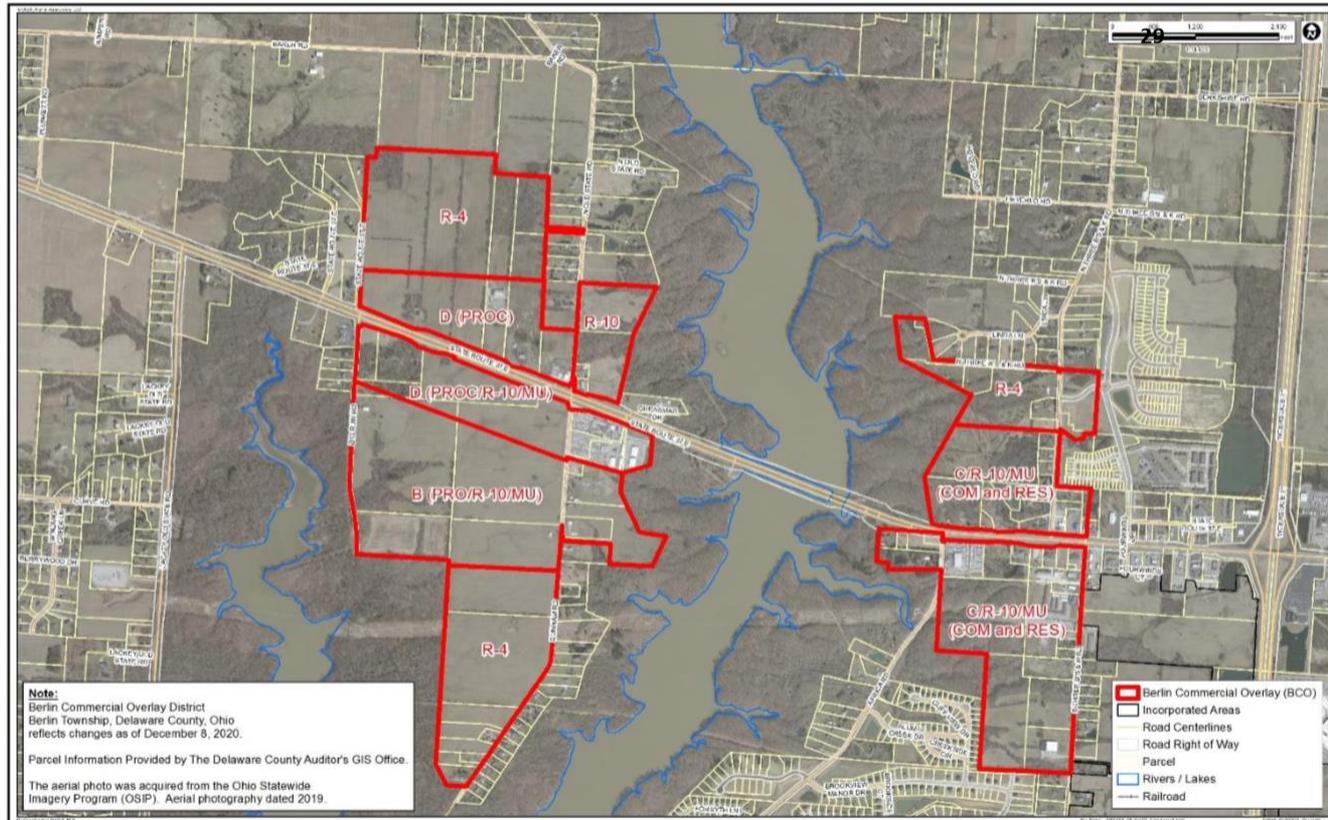


FOCUS GROUP MEETINGS

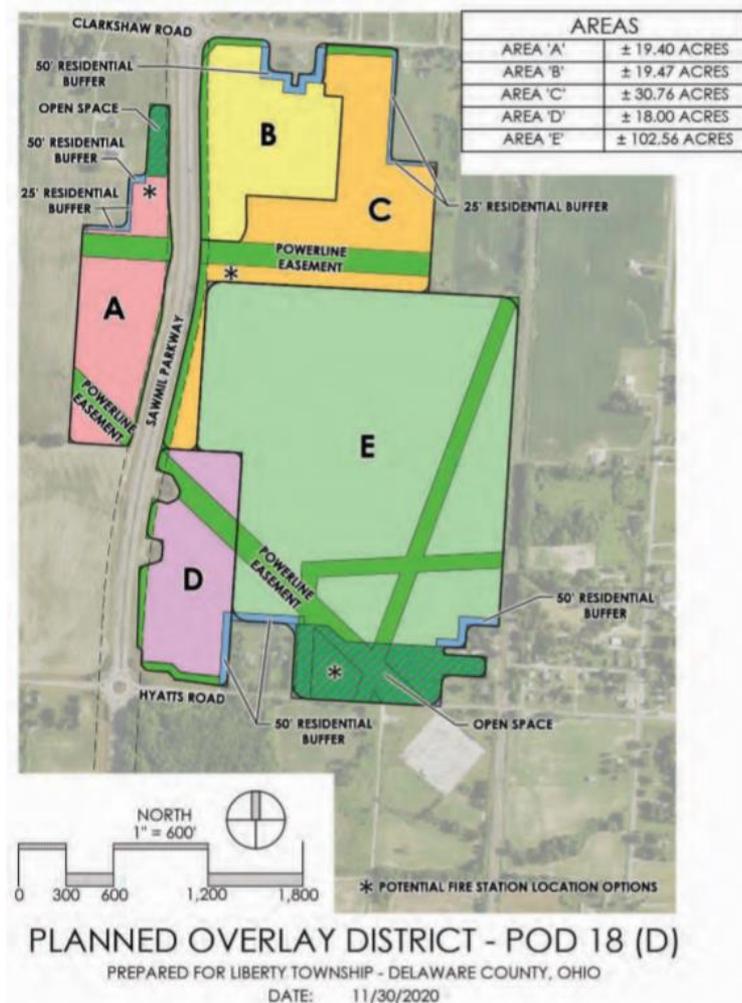


# Berlin Business Park

Mixed-use commercial and planned residential zoning approved by Berlin Township



# Liberty Township POD 18

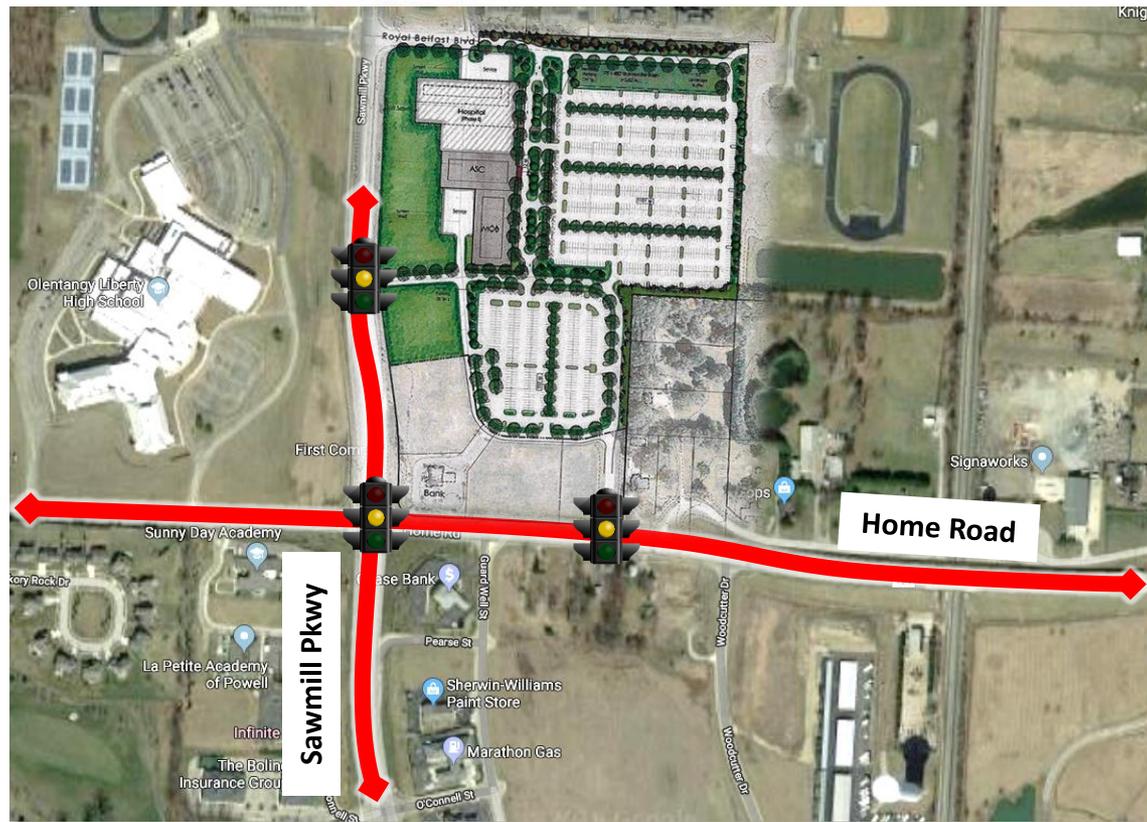


Planned overlay district including residential, commercial and health care uses along Sawmill Parkway, north of Hyatts Road



# OSU Ambulatory Care Facility

Proposed Powell/Liberty Township Ohio State Medical facility at Home Road and Sawmill Parkway



# Questions?

**Chris Bauserman, PE, PS**  
County Engineer

**Rob Riley, PE, PS**  
Chief Deputy Engineer

**Douglas Riedel, PE**  
Township Engineer

Phone: 740-833-2400  
[delcoeng@co.delaware.oh.us](mailto:delcoeng@co.delaware.oh.us)

