

BUTLER COUNTY ENGINEER'S OFFICE



GREGORY J. WILKENS, P.E., P.S. BUTLER COUNTY ENGINEER

www.bceo.org

2020 Capital Improvements Report

March 9, 2020

Board of County Commissioners
Butler County Government Services Center
315 High Street
Hamilton, Ohio 45011-2759

RE: 2020 Capital Improvements Report

Board of Butler County Commissioners:

The staff of the Butler County Engineer's Office conducts an ongoing inspection and analysis of the roads and bridges that are under our jurisdiction and make up the County system, per Section 5543.02 of the Ohio Revised Code. On the basis of these inspections and analyses, we respectfully submit to the Butler County Board of Commissioners this Report for all recommended 2020 capital improvements as of March 9, 2020. Each project listed has the direct participation of the Butler County Engineer's Office, involving some expenditure of funds and/or resources. All local construction funding and match money for State and Federal grants are BCEO funds unless otherwise specified.

We acknowledge your prior approval via resolution 1) to acquire needed rights of way and prepare plans in accordance with our recommended improvements, and 2) to proceed by Force Account, as outlined in Section 5543.19 of the Ohio Revised Code, in the maintenance, repair, and construction of roads, bridges, and culverts in Butler County during the year 2020.

This project list is subject to modification as funding allocations change and possible emergency projects arise. A continuously updated project list is maintained for public viewing on the Butler County Engineer's web site.

Very truly yours,

Gregory J. Wilkens, P.E., P.S.
Butler County Engineer

2020 PROPOSED CAPITAL IMPROVEMENTS

The following list of proposed capital improvements and general maintenance projects is compiled as of March 9, 2020. This report lists projects that will begin construction during 2020. (2019 carryover costs from projects that were accounted for in last year's Capital Improvements Report are included and identified.)

BRIDGES

Local Funds by Contract

Bridge Superstructure Replacement

Tolbert Road Bridge #00.914 (over Ninemile Creek)

ESTIMATED PROJECT COST: \$445,000

Funding: BCEO



Bridge Replacement

Middletown Germantown Bridge #00.393

ESTIMATED PROJECT COST: \$200,050

Funding: BCEO



Local Funds by Force Account

Bridge Repair – Pour concrete bottom

Trenton Franklin Road Bridge #5.578

ESTIMATED PROJECT COST: \$35,235



Bridge Repair Pour concrete bottom

West Alexandria Road Bridge #1.420

ESTIMATED PROJECT COST: \$7,760



Bridge Repair –Pour concrete bottom

West Alexandria Road Bridge #0.661

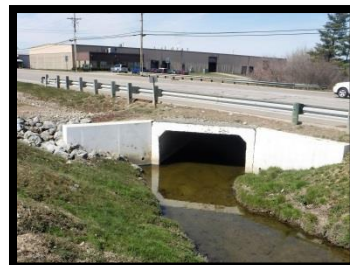
ESTIMATED PROJECT COST: \$8,025



Bridge Repair –Pour concrete bottom

Muhlhauser Road Bridge #00.430

ESTIMATED PROJECT COST: \$22,150



CULVERTS

Local Funds by Contract

Culvert Replacement

Cincinnati Dayton Rd. #09.561
ESTIMATED PROJECT COST: \$198,428
FUNDING: BCEO

Culvert Replacement

Elk Creek Rd. #02.353
ESTIMATED PROJECT COST: \$178,050
FUNDING: BCEO

Local Funds by Force Account

Culvert Replacements/Repairs/Removals on County Roads

Boyle Road culverts #0.172, #1.256
Brofield Drive at Millikin Road
California Road culverts #0.897, #1.171, #1.474, #1.516, #2.987, #2.994, #3.051,
#3.311, 3.505, #5.199, #5.252, #5.348, #5.532
Canal Road culvert #1.612, #1.657
Chapel Road culverts #2.396, #3.174, #4.243
Cincinnati Dayton Road culverts #5.357, #8.216
Howe Road culvert #3.492
Kyles Station Road culverts #3.532, #4.032, #5.139
Lanes Mill Road culverts #0.512, #0.595, #2.007, #2.089, #2.180, #2.256
Linn Road culvert #0.509
Riggs Road culverts #1.851, #2.029, #2.517, #3.244
Taylor School Road culverts #1.218, #2.324, #3.281

ESTIMATED TOTAL COST: \$924,551

INTERSECTION IMPROVEMENTS

State OPWC Funds

Intersection Improvement – add turn lane

Tylersville Rd. at Chantilly Dr.

ESTIMATED PROJECT COST: \$ 377,414

State funds: \$301,931

Local BCEO funds: \$75,483



Intersection Improvement – install roundabout

Lesourdsville West Chester Rd. at Beckett Ridge Blvd.

ESTIMATED PROJECT COST: \$ 1,628,646

State funds: \$1,465,781

Local BCEO funds: \$162,865



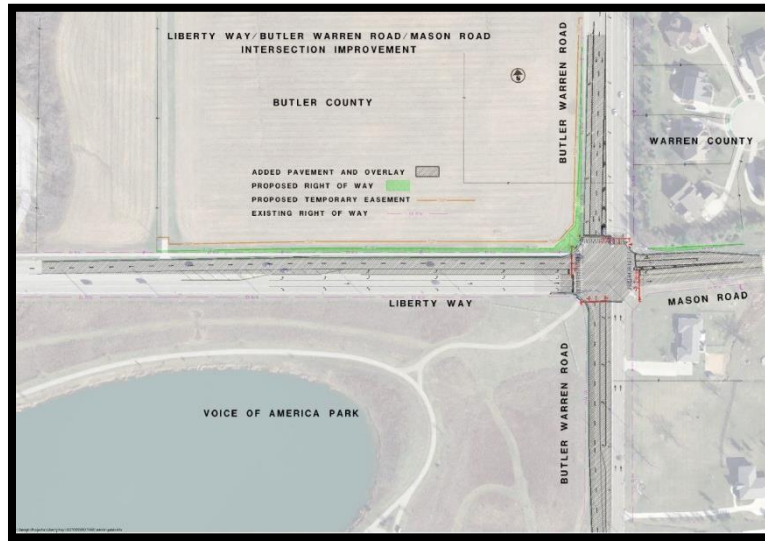
Local Funds

Intersection Improvement – add EB left turn lane/NB left turn lane

Butler Warren Rd. at Liberty Way

ESTIMATED PROJECT COST: \$ 1,052,005

Local funds: BCEO



INTERCHANGE IMPROVEMENTS

Local Funds

Interchange Improvement/Modification – Convert to Diverging Diamond Interchange (DDI), add lanes to ramps, signals, sidewalks (2019 project already accounted for in 2019 Capital Improvements Report -60% complete.)

Union Centre Boulevard/I-75 Interchange (Project to be completed summer 2020.)

ESTIMATED PROJECT COST: \$19,998,662

Funding: West Chester Township TIF



ROADWAY IMPROVEMENTS

Federal Funds

Roadway Improvement – Widen to 3 lanes, add center turn lane, widen shoulders, intersection lighting, adjust vertical profile (Already accounted for in 2019 Capital Improvements Report – 64% complete)

Liberty Fairfield Road – Princeton Road to Millikin Road. (Project to be completed spring 2020.)

ESTIMATED PROJECT COST: \$5,554,340

Federal funds: \$3,599,120

State Funds (OPWC): \$840,775

Local BCEO funds: \$486,735

Local BCWS funds: \$627,000



Local Funds by Contract

Roadway Improvement – (PHASE 2) widening, additional WB lane, extend Doc Dr, add access drive, signal modifications at NB I-75 ramp/Dudley Dr./Kingsgate Way/Cox Rd.

Tylersville Rd – I-75 to Cox Rd.

ESTIMATED PROJECT COST: \$3,065,493

Funding: Butler County



Photo courtesy of Journal News

Roadway Improvement – widening, additional lane

Gilmore Rd

ESTIMATED PROJECT COST: \$1,235,000

Funding: Fairfield Township TIF



PAVING

Local Funds by Contract

Resurfacing 43.74 miles of County and Township Roads (Asphalt)

County Roads:

Alert New London Road (add striping at S.R. 126)
Bunker Hill Woods Road (Reily Millville Rd. to Garver Elliot Rd.)
*Butler Warren Road (Dimmick Rd. to Fallen Oaks Dr.)
*Dimmick Road (N. Windwood Dr. to curb east of Eastbrook Dr.)
Elk Creek Road (surface repair only, three locations)
Garver Elliot Road (Bunker Hill Woods Rd. to Woods Station Rd.)
Hamilton Eaton Road (Old Somerville Corp. line to S.R. 744)
Kyles Station Road (Mauds Hughes to Cincinnati Dayton Rd.)
Millikin Road (At intersection of Liberty Fairfield Rd.),
(east of S.R. 747, surface repair)
Middletown Germantown Road (Corlee Ln. to Preble County line)
Princeton Road (S.R. 747 to Cincinnati Dayton Rd.)
Riverside Drive (Trenton Rd. to Trenton Rd.)
West Alexandria Road (S.R. 122 to Elk Creek Rd.)
*West Chester Road (address #6531 to new pavement)
Woods Station Road (Garver Elliot Rd. to North Pierson Rd.)

Total miles: 19.62

Estimated cost: \$3,272,482.71

Township Roads:

Dutchland Boulevard (Hansbrinker Dr. to Netherland Dr.)
Michael Road (Hetzler Rd. to Trenton Franklin Rd.)
Mossiman Road (S.R. 122 to dead end)
Princeton Road (eastbound only, island to S.R. 4 Bypass)
Wallace Road (U.S. 27 to Oxford Twp. Maintenance line)
Warvel Road (all)
Various streets in multiple townships

Total miles: 24.13

Estimated cost: \$3,602,294.19

ESTIMATED TOTAL COST: \$6,874,776.90

Resurfacing 0.925 miles of Township Roads (Chip Seal) – Hanover Township only

Hussey Road (dead end to U.S. 27)
Brunner Road (dead end to Stahlheber Rd.)

ESTIMATED TOTAL COST: \$162,545.53

Resurfacing 8.35 miles of Township Roads (Black Mat seal and Micro Surface)

Various streets in multiple townships

ESTIMATED TOTAL COST: \$606,955.21

OTHER

Local Funds by Contract

Drainage improvements – drainage improvements, resurfacing
Beckett Rd. (fire station to Beckett Ridge Blvd.)
ESTIMATED PROJECT COST: \$1,407,770
Funding: BCEO



Local Funds by Force Account

Drainage improvements, ditching, guardrail replacement
Trenton Franklin Road at Michael Road
ESTIMATED PROJECT COST: \$73,675

Slope and ditch repair
Lanes Mill Road
ESTIMATED PROJECT COST: \$25,350

SUMMARY

The Butler County Engineer's 2020 Capital Improvements Report outlines \$18,529,060 million in capital improvement and paving projects proposed for this year, as well as projects that were not completed last year. (2019 project costs identified in the report are not shown in the total costs below.) Each project listed in this Report will receive the direct involvement of the Butler County Engineer's Office (BCEO), including planning and engineering, funding, administration of the contract, and construction management and inspection. Where noted, the BCEO, in some cases, cooperates with other local agencies or private entities on a project, acting as the project administrator.

This year's proposed capital improvements by and in conjunction with the Butler County Engineer include:

| <i>Project type</i> | <i>Number</i> | <i>Total</i> | <i>Grant</i> | <i>BCEO</i> | <i>Outside</i> |
|----------------------------|-----------------------|---------------------|---------------------|--------------------|-----------------------|
| Bridges | 6 | \$718,220 | 0 | \$718,220 | 0 |
| Culverts | 43 | \$1,301,029 | 0 | \$1,301,029 | 0 |
| Intersections | 3 | \$3,058,065 | \$1,767,712 | \$1,290,353 | 0 |
| Interchange | 1 | 0 | 0 | 0 | 0 |
| Roadways | 3 | \$4,300,493 | 0 | 0 | \$4,300,493 |
| Resurfacing | 53 miles | \$7,644,278 | 0 | \$3,272,483 | \$4,371,795 |
| Other | 3 | \$1,506,975 | 0 | 0 | \$1,506,975 |
| Total | 57 plus paving | \$18,529,060 | \$1,767,712 | \$6,582,085 | \$10,179,263 |

The BCEO's daily operations include road and bridge maintenance, planning, engineering, and designing many future projects. A complete list of current and future projects can be found on our web site at www.bceo.org.