

Report of the County Engineer

Ohio Revised Code, Section 6131.14

| | | |
|-----------------------------|------------------------|---------------------------------|
| <i>In the Matter of the</i> | Single | <i>County Engineer's Office</i> |
| | <i>single or joint</i> | |
| County Ditch No. _____ | to be know as | <i>Hancock County, Ohio</i> |
| <i>the</i> | <u>Oil Ditch</u> | December 10, 2024 |
| <i>Petitioned for by:</i> | | <i>Proceedings to:</i> |
| City of Findlay | | Clean & grub existing channel |

To the Board of County Commissioners:

Upon the boards determination [February 17, 2015](#) to proceed with the project survey and design on the proposed improvement under section 6131.12 of the Ohio Revised Code, the county engineer has performed the following items ordered by the county commissioners:

- Conduct all necessary surveys for the proposed improvement
- Prepare plans for structures
- Create maps showing the location of the land proposed to be assessed
- Prepare construction drawings of the improvement
- Prepare an estimate of the cost of the improvement

I have prepared a schedule of the work proposed to be done, showing the grade, the depth, the excavation to be done, the location of the permanent bench marks and their actual elevation on the most recent US geological survey data above or below the elevation used and such other data as in the judgment of the engineer will aid in retracing lines, levels or other features of the improvement.

I have prepared the proper working specifications for the construction of the improvement, including all necessary materials and methods of construction acceptable by the County Engineer in the course of the work performed by the Contractor. I have also designated on the plans and profiles all construction easements or working right-of-ways of sufficient width for said contractor to be limited to in the course of his work, and all permanent easements or right-of-ways for use by the County Engineer in maintaining the improvement.

I have prepared a schedule of landowners using tax map and tax duplicate information containing the names, addresses, descriptions, parcel identification numbers, acres owned and acres benefitted which to the best of my ability represent the amount of lands within the watershed being benefitted by the proposed improvement, from which I have prepared individual assessments to those parcels which, in my best judgment, represent the most fair cost to those properties according to the amount of benefit they receive as a result of the improvement. The city has stated that they will pay the assessments for all of the parcels located within the city limits.

The original petition only included cleaning and grubbing the existing channel. At the final hearing, the Board of Commissioners can hear any change in the the nature, kind and extent of proposed work to be done and may make those changes if they feel the changes will better accomplish the purpose and object of the proposed improvement. Therefore we are proposing that the nature of work petitioned for be changed to include locating, cleaning, removing obstructions from, constructing, reconstructing, straightening, deepening, widening, altering, boxing, tiling, filling, walling or arching the watercourse limits listed in the petition. The original only included cleaning and grubbing. This will not affect the assessments that were submitted for the final hearing.

The lower limits of this watercourse is already on maintenance and named Oil Ditch. Since this maintenance ditch is non-contiguous and already set up as a seperate maintenance account, I propose to rename the current petition ditch to Oil Ditch South in order to distinguish between the two projects.

A visual inspection of the drainage system makes it apparent that the drainage system has not been maintained by the property owners of the water course. Without proper maintenance, the ditch will continue to deteriorate, resulting in reduced drainage capacity and subsequent drainage concerns for benefitting landowners. The project plans to perform the following items to address the needs and improve the drainage system:

- Remove all debris and obstructions within the watercourse
- Dip out areas of sediment buildup to improve hydraulic capacity
- Create a grass buffer strip to allow permanent access and reduce soil runoff
- Install rock channel protection and seeded ditch banks to reduce erosion

It is the opinion of the Engineer that the Oil Ditch Petition Ditch needs to be approved and put on permanent maintenance. Some of the benefits and drawbacks are listed below:

Benefit:

- Maintain capacity of the channel
- Improved drainage
- Relieve standing water
- Improve the maintenance of investments
- Reduce erosion
- Correlates with the surrounding flood reduction initiatives

Drawback:

- Need for future access to property
- Future assessments

I hereby do recommend the Board of County Commissioners to proceed with the proposed project by affirming its former order and to confirm assessments and order the letting of the contract as I have found the project is feasible, it is conducive to public welfare and the benefits outweigh the costs.

Respectfully submitted to the Board of County Commissioners of Hancock County on this 10th day of December, 2024



A handwritten signature in blue ink, appearing to read "D. E. Cade".

Doug Cade
Hancock County Engineer

**Oil Ditch Single County Ditch
Hancock County, Ohio
Engineer's Construction Cost Estimate
November 2024**

| ITEM | DESCRIPTION | UNIT | QUANTITY TOTAL | UNIT PRICE | TOTAL |
|------|--|---------|-------------------|------------------------------------|----------------------|
| | General Site | | | | |
| 1 | Ditch Clearing And Grubbing | Ft. | 6220 | \$ 12.00 | \$ 74,640.00 |
| 2 | Ditch Cleanout | Ft. | 6220 | \$ 2.25 | \$ 13,995.00 |
| 3 | Ditch Bank Seeding | Sq. Yd. | 11000 | \$ 1.00 | \$ 11,000.00 |
| 4 | Berm Seeding | Sq. Yd. | 24000 | \$ 1.00 | \$ 24,000.00 |
| 5 | Rock Channel Protection, Type D, with Filter | Cu. Yd. | 19 | \$ 90.00 | \$ 1,710.00 |
| 6 | 4" Conduit, Type E | Ft. | 120 | \$ 15.00 | \$ 1,800.00 |
| 7 | 6" Conduit, Type E | Ft. | 60 | \$ 18.00 | \$ 1,080.00 |
| 8 | 8" Conduit, Type E | Ft. | 40 | \$ 22.00 | \$ 880.00 |
| 9 | 10" Conduit, Type E | Ft. | 40 | \$ 27.00 | \$ 1,080.00 |
| 10 | 12" Conduit, Type E | Ft. | 30 | \$ 40.00 | \$ 1,200.00 |
| 11 | Reset Conduit, 42" | Ft. | 23 | \$ 35.00 | \$ 805.00 |
| 12 | Pipe Cleanout, 27" to 48" | Ft. | 281 | \$ 15.00 | \$ 4,215.00 |
| 13 | Pipe Cleanout, Over 48" | Ft. | 84 | \$ 40.00 | \$ 3,360.00 |
| 14 | Construction Layout Stakes | Lump | 1 | \$ 3,500.00 | \$ 3,500.00 |
| 15 | Mobilization | Lump | 1 | \$ 5,000.00 | \$ 5,000.00 |
| | | | | Subtotal | \$ 148,265.00 |
| | | | | | |
| | | | | 10% Contingency | \$ 14,826.50 |
| | | | | Public Notice & Legal | \$ 919.24 |
| | | | | Engineering/Design Services | \$ 29,518.66 |
| | | | | Construction Inspection | \$ 7,413.25 |
| | | | | Total Construction | \$ 200,942.65 |
| | | | | | |
| | | | | 5% Maintenance Account | \$ 10,047.13 |
| | | | | | |
| | | | | Total | \$ 210,989.78 |
| | | | | | |
| | | | | | |

NOTE: This engineer's cost does not include cost associated with removal/relocation of utilities.