



There are currently 5 other petition ditches that are on permanent maintenance that drain into the proposed Howard Run ditch. These are the Winters Tile, Anna Davis Tile, Griffith Tile, Voorhees Ditch and Reimund Ditch.

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 Howard Run 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 14th day of June, 2024



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*Doug Cade*  
*Hancock County Engineer*

**Howard Run Single County Ditch  
Hancock County, Ohio  
Engineer's Construction Cost Estimate  
June 2024**

ITEM	DESCRIPTION	UNIT	QUANTITY TOTAL	UNIT PRICE	TOTAL
	<b>General Site</b>				
1	Ditch Clearing and Grubbing	LUMP	1	\$ 85,000.00	\$ 85,000.00
2	Ditch Cleanout, As Per Plan	FT	16000	\$ 6.00	\$ 96,000.00
3	Ditch Bank Seeding	SY	34000	\$ 1.10	\$ 37,400.00
4	Berm Seeding - Seeded Grass Strip	SY	28000	\$ 0.95	\$ 26,600.00
5	Level Spoils	LUMP	1	\$ 8,000.00	\$ 8,000.00
6	Rock Channel Protection, Type D	CY	30	\$ 120.00	\$ 3,600.00
7	4" Conduit, Type E	FT	40	\$ 15.00	\$ 600.00
8	6" Conduit, Type E	FT	80	\$ 18.00	\$ 1,440.00
9	8" Conduit, Type E	FT	60	\$ 30.00	\$ 1,800.00
10	10" Conduit, Type E	FT	20	\$ 40.00	\$ 800.00
11	12" Conduit, Type E	FT	150	\$ 50.00	\$ 7,500.00
12	15" Conduit, Type E	FT	70	\$ 55.00	\$ 3,850.00
13	18" Conduit, Type E	FT	20	\$ 70.00	\$ 1,400.00
14	Pipe Cleanout, 27" to 48"	FT	100	\$ 20.00	\$ 2,000.00
15	Pipe Cleanout, Over 48"	FT	70	\$ 30.00	\$ 2,100.00
16	Construction Layout Stakes	LUMP	1	\$ 4,000.00	\$ 4,000.00
17	Mobilization	LUMP	1	\$ 12,000.00	\$ 12,000.00
				<b>Subtotal</b>	<b>\$ 294,090.00</b>
				<b>10% Contingency</b>	<b>\$ 29,409.00</b>
				<b>Public Notice &amp; Legal</b>	<b>\$ 4,386.85</b>
				<b>Engineering/Design Services</b>	<b>\$ 132,145.26</b>
				<b>Construction Inspection</b>	<b>\$ 14,704.50</b>
				<b>Total Construction</b>	<b>\$ 474,735.61</b>
				<b>5% Maintenance Account</b>	<b>\$ 23,736.78</b>
				<b>Total</b>	<b>\$ 498,472.39</b>

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