

Kenton C. Ward, CFM
Surveyor of Hamilton County
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Suite 188
One Hamilton County Square
Noblesville, Indiana 46060-2230

December 13, 2017

To: Hamilton County Drainage Board

Re: Thorpe Creek Drainage Area, Martha Ford Arm Relocation

The Martha Ford Arm to the Thorpe Creek Drain is an open ditch constructed in 1953. The drain originates in Madison County. The portion of the drain within Hamilton County is located in Fall Creek Township, Sections 20 and 29 of Township 18 North Range 6 East. As of June 22, 2009 the drain is part of the Thorpe Creek Drainage Area. The drain is 6,556-feet in length. The drain runs generally south and west from Sta. 0 which is north of the intersection of 136th Street and Atlantic Road. The AJ Meyers Britton Falls Relocation Drain and the John Underwood Drain discharge to the Martha Ford Drain. The Martha Ford discharges to the Bell and Humbles Arm to Thorpe Creek Drain at Cyntheanne Road.

History

There is a Board of Commissioners report dated December 21, 1953 that indicates the construction of the drain was petitioned by Ernest J Ellingwood and Bessie E Ellingwood. A hearing was set for December 30, 1953. [Commissioners Record Book 32]

At the April 23, 2001 meeting of the Drainage Board, it was reported that the Madison County Drainage Board declined the creation of a joint board for the Martha Ford Drain/Thorpe Creek. [See Hamilton County Drainage Board Minutes Book 6, pages 37-41]

At the June 22, 2009 meeting of the Drainage Board, the Martha Ford became part of the Thorpe Creek Drainage Area and Thorpe Creek was placed on maintenance. [See Hamilton County Drainage Board Minutes Book 12, pages 101-104]

The City of Fishers petitioned for the reconstruction of the drain at the meeting of the Drainage Board on September 28, 2015 [See Hamilton County Drainage Board Minutes Book 16, pages 319-320]

The Drainage Board approved a professional services contract with VS Engineering for the design of the reconstruction on January 26, 2016. [See Hamilton County Drainage Board Minutes Book 16, page 426]

Existing Condition

The segment of the drain on the north side of 136th Street, west of Atlantic Road is presently located immediately adjacent to the roadway surface of 136th Street. The roadway embankment is not stable and both gabion basket walls and concrete walls have been installed over the years. The gabion basket walls have begun to lean outwards at the top. The Hamilton County Surveyor completed a maintenance project to reset these gabion baskets in the fall of 2015. The County has received complaints recently of the abrupt drop off west of the intersection of 136th Street and Atlantic Road. There is limited clear zone available for vehicles that leave the roadway to come to a complete stop or to safely return to the roadway. This condition extends farther to the west where the drain is south of 136th Street and also along the west side of Atlantic Road north of the intersection.

Reconstruction Project

In order to provide additional clear zone and to better protect the roadway from erosion of the embankment, the drain must be relocated away from the roadway surface. The segment of the existing drain affected by the project is 1,085-LF. The length of the new drain in this segment will be 1,038-LF. The new drain will be 7-feet in width at the bottom with 2:1 side slopes. Material excavated for the new drain will be used to fill in the old drain. The slope of the drain in this section will average 0.33%. Rip-Rap will be placed at turns in the alignment of the drain. The depth of the proposed drain varies from 6-10 feet. Existing surface and other drains that presently discharge to the drain will be extended to the drains new location with the project.

Permits

The County received a Section 401 Individual Water Quality Certification from the Indiana Department of Environmental Management on October 17, 2017. The County has also received a Section 404 Permit from the Army Corps of Engineers on November 1, 2017.

Project Cost

No.	Item	Quantity	Unit	Unit Price	Total Price
1	Mobilization/Demobilization	1	LS	\$ 8,200.00	\$ 8,200.00
2	Maintenance of Traffic	1	LS	\$ 1,700.00	\$ 1,700.00
3	Clearing ROW	1	LS	\$ 3,300.00	\$ 3,300.00
4	Construction Engineering	1	LS	\$ 4,900.00	\$ 4,900.00
5	12" CMP	61	LFT	\$ 30.00	\$ 1,830.00
6	12" End Section	1	EA	\$ 800.00	\$ 800.00
7	Common Excavation and Grading	5300	CYS	\$ 16.00	\$ 84,800.00
8	Rip Rap	990	TON	\$ 45.00	\$ 44,550.00

9	Permanent Seeding	7700	SYS	\$ 1.00	\$ 7,700.00
10	Filter Fabric	7000	SYS	\$ 3.00	\$ 21,000.00
11	Silt Fence	1050	LFT	\$ 2.50	\$ 2,625.00
				Subtotal	\$ 181,405.00
				15% Contingency	\$ 27,210.75
				Construction Total	\$ 208,615.75
				Engineering Services	\$33,050.00
				Easement Appraisal Fee	\$600.00
				Easement Cost	\$5,225.00
				Grand Total	\$247,490.75

Engineering services provided by V.S. Engineering include survey, design, construction staking and as-builts drawings. Construction inspection shall be performed by the Hamilton County Surveyor's Office.

Project Funding

I recommend to the Board that this be paid from the Thorpe Creek maintenance fund as allowed under IC-36-9-27-45.5. The maintenance fund has a current balance of \$466,311.60.

The relocation of the drain will shorten the drain by 47-feet. The final length of the drain will be 6,509-feet.

Easements

Additional regulated drain easement was needed due to the moving of the open ditch. These easements were acquired on the following parcels:

Pulte Homes of Indiana LLC, Parcel Number 13-12-29-00-00-007.002
 Cost \$0.00
 Acres: 0.439
 Recorded October 2, 2017
 Instrument Number 2017048767

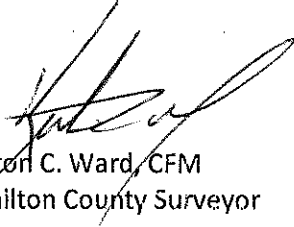
The Pulte Homes parcel is part of the Britton Falls Development and will be designated as floodway and common area on the proposed plat for the development.

Underwood Family LP, Parcel Number 13-12-30-00-00-008.002
 Cost \$5,225.00
 Acres 0.188
 Recorded July 19, 2017
 Instrument Number 2017034390

Over the new open drain, the easement will include the width between the tops-of-bank and 75-feet from each top of bank.

The cost of easement acquisition is included in the above cost estimate and were paid out the Thorpe Creek maintenance fund.

I recommend that the Board set a hearing for this proposal for January 22, 2018.



Kenton C. Ward, CFM
Hamilton County Surveyor

KCW

IN THE MATTER OF THE THORPE CREEK DRAIN
HAMILTON COUNTY DRAINAGE BOARD

FILED

AUG 26 2015

HAMILTON COUNTY SURVEYOR

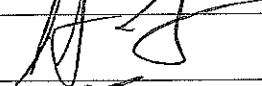

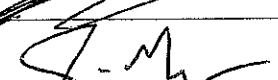
Comes now the Board of Public Works and Safety of the City of Fishers ("Board"), who petitions the Hamilton County Drainage Board as follows:

1. The Board members are the duly appointed members of the City's Board of Public Works and Safety.
2. The Board is responsible for the drainage of public highways.
3. The Board now desires that a regulated drain be reconstructed in Fall Creek Township which involves 136th Street, Atlantic Road, and various areas surrounding the roads in the drainage shed.
4. The names and addresses of each owner affected by the proposed public drainage are attached hereto and incorporated herein as Exhibit "A", which area of land involved in the proposed drainage area is located in Section 29 Township 18 north, Range 6 east, Hamilton County, Indiana.
5. No other public lands or owners are located in the area which would affect improvement.
6. The general route of the proposed reconstruction involves moving the existing open ditch away from 136th Street in order to improve safety.
7. In the opinion of the Petitioner, the costs, damages, and expenses of the proposed improvement will be less than the benefits which will result to the owners of the land to be benefited thereby.
8. In the opinion of the Petitioner, the proposed improvement will benefit a public highway in Fishers, Indiana.
9. That the name of the attorney representing Petitioner in the drainage petition is Chris Greisl, City Attorney, Fishers, Indiana.
10. Petitioners shall pay the cost of notice and all reasonable legal costs if the Petition is dismissed.
11. Petitioner shall post a bond, if required; to pay the cost of notice and all reasonable legal costs in the case the improvement is not established.

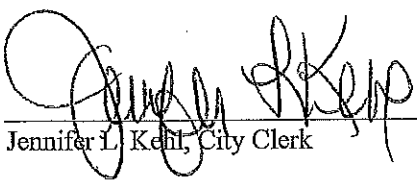
BOARD OF PUBLIC WORKS & SAFETY, CITY
OF FISHERS
HAMILTON COUNTY, INDIANA

AYE

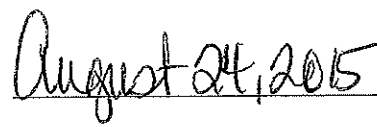
NAY

	Scott Fadness, Chairman	
	Jeff Lantz, Member	
	Jason Meyer, Member	

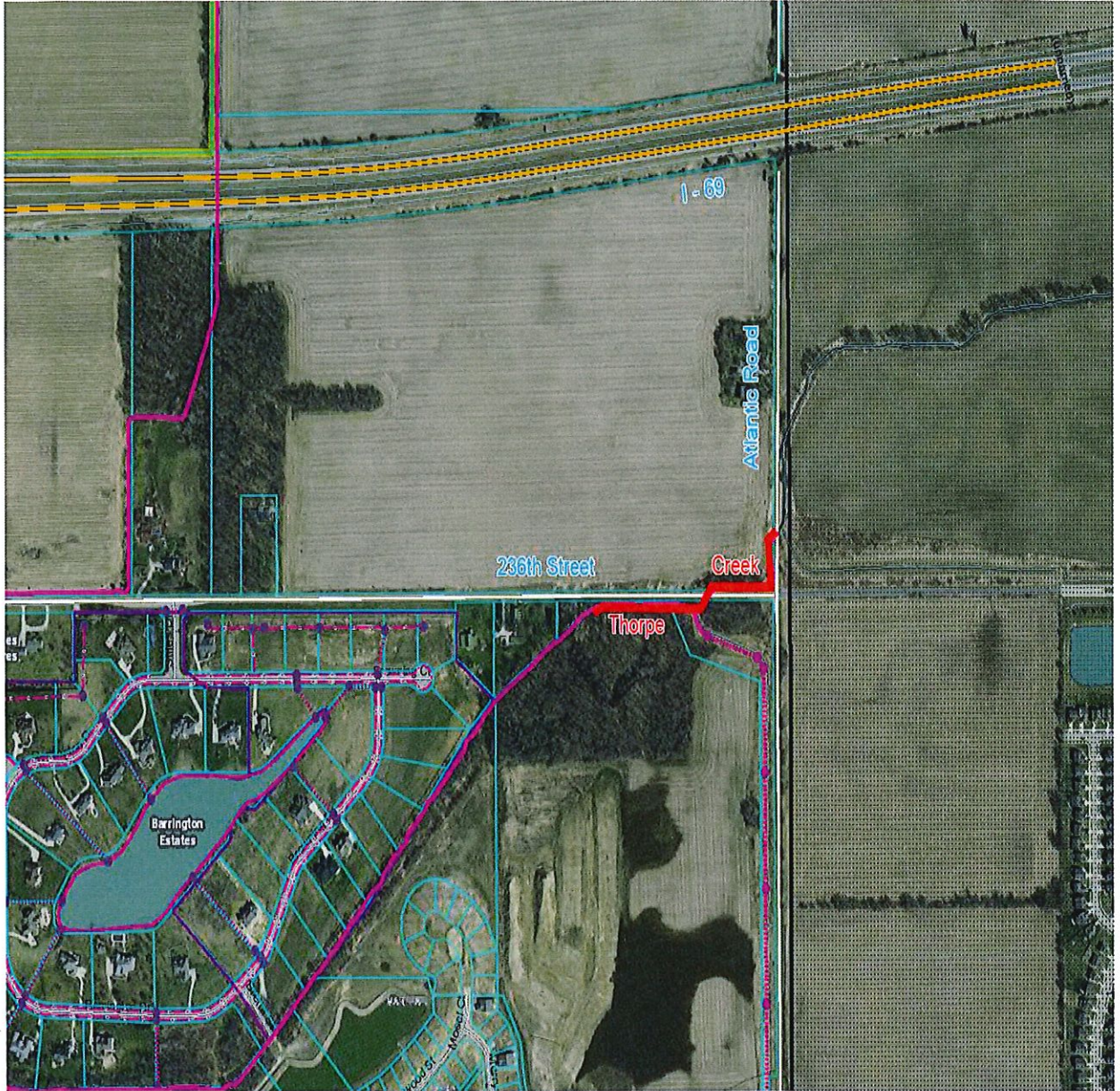
ATTEST:


Jennifer L. Kehl, City Clerk

DATE:



Approved by: Christopher P. Greisl, City Attorney



Thorpe Creek, Martha Ford Arm

Open ditch along 136th & Atlantic Road to be relocated to provide clear zone from the roadway.

Existing affected drain length is 1,085'. New drain to be 1,038'. Relocation will shorten the drain by 47'.

Cost estimate is \$247,490.75. To be paid with the Thorpe Creek maintenance fund.

Hearing: 01/22/18

Parcel	Owner	Description	Benefit	MntAsmt	Reconst	Percent
13-12-29-00-00-006.000	Barker, Bobby J.	S20 T18 R6	*	*	*	16.66%
13-12-29-00-00-007.002	Pulte Homes of Indiana LLC	S20 T18 R6	*	*	*	16.66%
13-12-29-00-00-007.001	Pulte Homes of Indiana LLC	S20 T18 R6	*	*	*	16.66%
99-99-99-99-999.007	Town Of Fishers	S20 T18 R6	*	*	*	16.66%
13-12-20-00-00-008.002	Underwood Family LP	S20 T18 R6	*	*	*	16.66%
13-12-29-00-00-005.000	Whitlow, Peggy J	S20 T18 R6	*	*	*	16.66%
Parcels: 6						100.00%