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May 9, 2019

To: Hamilton County Drainage Board

Re: Clara Knotts Drain, 96th & College Reconstruction

Attached is a map showing the extent of the proposed reconstruction of the Clara Knotts Drain Reconstruction at 96th Street and College Avenue.

The proposed reconstruction would begin at the outlet (Structure 120 of the Parkwood Crossing Arm) of the detention pond on the Parkwood Crossing Homeowner Association property, tract 16-13-11-04-17-001.006 located in the northwest corner of 96th Street and College Avenue. The reconstruction would run thence downstream in the existing 60 inch CMP drain location to a point within 96th Street approximately 174 feet east of the College Avenue intersection centerline where the drain intersects the box culvert which runs south under 96th Street. The total length is 220 feet.

All work will be done within existing regulated drain easement. Two property owners will be affected by this project. These are as follows:

Parkwood Crossing Owners Association
City of Carmel

16-13-11-04-17-001.006
96th Street, College Avenue

After the July 2017 pipe failure of a section of this line this office has been concerned about the integrity of the remaining CMP pipe in this area. Due to the flooding in the residential area upstream during the same July storm event which caused the pipe failure, attention was diverted to the completion of reconstruction plans for the upstream area which are now completed. In May 2018 the Board gave the office the go ahead for requesting quotes for reconstructing the pipe. At first the traditional excavation and replacing the remaining 60" CMP was investigated. This method was discarded due to the number of utilities in the path, traffic disruption and expense. Quotes were then obtained in October 2018 for lining the pipe. Four quotes were received. Two quotes involved the pipe using concrete. These were rejected due to the capacity which would be lost in the pipe which was up to 4" total. It was felt that the lost capacity would be unacceptable due to the entire system upstream

was designed based on the existing pipe capacity. The quote for spray polyurethane structural lining would be the best method for the system.

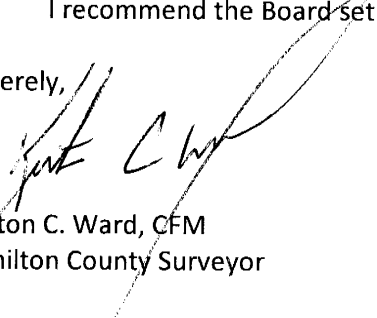
The estimate for the reconstruction is as follows:

Spray Polyurethane Structural Lining 220 feet	\$258,331.06
15% Contingency	<u>\$ 38,749.66</u>
	\$297,080.72

Funding for this project will be paid for by a Community Development Block Grant.

I recommend the Board set a hearing for this reconstruction for June 24, 2019.

Sincerely,



Kenton C. Ward, CFM
Hamilton County Surveyor

KCW/llm

Clara Knotts Drain 96th & College Reconstruction
 *To be paid by a Community Development Block Grant.
 *No change in current maintenance assessment.

Reconstruction Cost
 \$258,331.06 Construction Cost
 \$38,749.66 15% Contingency
 \$297,080.72 Total Cost

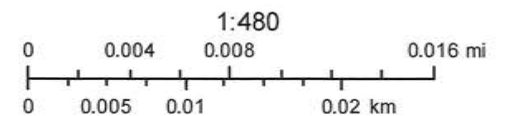
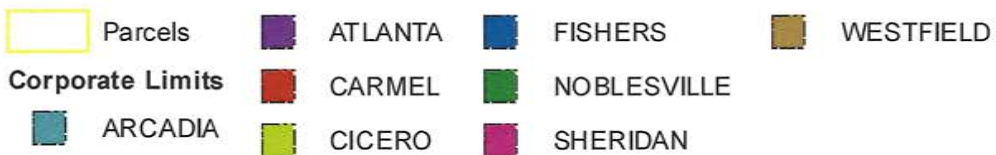
Hearing: 06/24/19

Parcel	Owner	Desc	Benefit	Reconstruction Asmt	Mnt Asmt	% of Total
16-13-11-04-17-001.006	Parkwood Crossing Owners Assoc.	S11 T17 R3 6.26 Ac	*	*	*	*
99-99-99-99-99-999.005	City Of Carmel, Dept. of Administration	S11 T17 R3 96th & College	*	*	*	*

Clara Knotts 96th and College Reconstruction



December 28, 2018



Author: Hamilton County

Hamilton County compiled this map. Although strict accuracy standards have been employed, Hamilton County does not warrant or guarantee the accuracy of the information contained herein and disclaims any and all liability resulting from any error or omission.