MEMORANDUM

To: Mayor and City Council

From: J. Gregory Wilson, P.E., Senior Stormwater Engineer

Date: October 28, 2019

Subject: Approval of Funding for Stormwater Culvert

Replacement at 2610 Amberly Drive

ITEM DESCRIPTION

Request for Approval of Funding for Stormwater Culvert Replacement at 2610 Amberly Drive. Seven bids were received on October 21, and the low bid is \$305,300.00 by The Dickerson Group, Inc. Requested funding is \$335,830.00, which includes a 10% contingency.

BACKGROUND

City staff identified the compromised structural condition of the culvert, headwalls and channel in July of 2018. The deteriorated stormwater system includes the primary culvert which is constructed of two 90 foot segments of 48" corrugated metal pipe, two brick masonry catch basins, 60 feet of 18" CMP, and two stone masonry headwalls. This infrastructure is approximately 54 years old and exhibits significant pipe corrosion, structural failures, and embankment erosion. Staff recommendations include:

- Total replacement of masonry and metal storm drainage system with reinforced concrete structures (box culvert, headwalls, catch basins, pipes, and manholes)
- Stabilization of stream embankments with riprap & staked vegetative reinforcement

Replacement of the failing 48" twin culverts with a 7'x4' concrete box culvert will alleviate flooding conditions at the adjacent upstream property by lowering the 100-year flood elevation and minimizing the possibility of pipe blockage. Construction is projected to begin in December.

The remaining projects budgeted for completion in FY2019 could generate a deficit in the Stormwater Repairs & Maintenance account if contingencies are needed (see attached summary). As of FY2019, the Stormwater Reserve Fund balance is \$2,688,155.95. For emergency repairs, Public Works prefers to keep a balance of \$1,000,000. If approved by Council, the cost of this project would be deducted from the surplus available in this account.

RECOMMENDED ACTION

Staff recommends approval of \$335,830.00 in funding for the Stormwater Culvert Replacement at 2610 Amberly Drive.



Deformed metal pipe with invert corrosion & visible holes



Large horizontal cracks along stone headwall



Embankment scour exposing tree roots

BID/PROPOSAL RESPONSES CITY OF DUNWOODY

Soliciation: ITB 19-06 Amborry Dr. Colvert Replacement

Date: 10-21-2019

	COMPANY	BID TOTAL
1	Summit Construction + Davelopment	#387.22501
2	000	\$372. 9 46.06
3	J.G. LEONE ENTERPRISES, Inc.	\$100, F16.00
4	(2)	#24500G
5	Site Engineering INC	4248 131.98
6		4568,000.00
7	THE COLLEGE TWO.	# 305 300.00
	TRI SCOPES, LNC.	#408,164.53
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YTD Stormwater Repairs & Maintenance Budget

FY 2019 Remaining Balance	\$129,615.95
Current Stormwater Projects In Progress	Estimated Cost (-w- contingency)
1708 N Houghton Ct (Pipe Lining)	\$56,315.88
4616 Amberly Ct (Pipe Lining)	\$64,288.50
5134 Meadowlake Ln (Pipe Lining)	\$70,275.00
Estimated Remaining balance	-\$61,263.43
Stormwater Reserve F	und
Balance	\$2,688,155.95
1280 Witham Dr (Dig & Replace Pipe Repair/Lining)	\$197,962.50
1370 Center Dr (Dig & Replace, Pond Maintenance)	\$221,232.78
2610 Amberly Dr (Culvert Replacement)	\$335,830.00
Estimated Remaining balance	\$1,871,867.24

