

<u>MEMORANDUM</u>

To: Mayor and City Council

From: Carl Thomas, Stormwater Manager

Date: September 23rd, 2019

Subject: Memorandum - Funding Authorization for 1280 Witham

Drive Stormwater Repairs

ITEM DESCRIPTION

Approval of Funding for Stormwater Pipe Repairs at **1280 Witham Drive**. Estimated cost, plus 20% contingency, is **\$197,962.50**.

BACKGROUND

Structural deficiencies to the storm system on Witham Drive were identified responding to a sinkhole in December of 2018. The pipe system is approximately 48 years old and in poor condition. CCTV footage revealed severe corrosion with multiple voids in the invert. Recommended repairs include:

- Lining approximately 670 LF of 24" and 36" Corrugated Metal Pipe
- Locate and Raise 1 buried junction box
- Replacing solid slab tops to standard ring & cover pedestal tops
- Dig & Replace +/- 20 feet of 36 inch CMP

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 January 1st, 2019, the Stormwater Reserve Fund balance is \$2,688,155.95. Public Works prefers to keep a balance of \$1,000,000 for emergency repairs, . Staff recommends deducting the cost of this project from the surplus available in this account.

RECOMMENDED ACTION

Staff recommends approving \$197,962.50 in funding for Stormwater Pipe Repairs at 1280 Witham Drive.



WATER SAG WITH LARGE HOLE IN INVERT





PARTIAL COLLAPSE OF 36" CMP





5 x 10 FOOT SINKHOLE



Packet page:...

250

Feet

125

62.5



1280 Witham Dr CCTV Inspection Summary 5532 5537 5539 swC 4451-55-6235 5515 WS 4451-86-0261 MARTINA DR 26-1028 Length = 74 ft Material = 30" CMP 5531 5524 **Hole Soil Visible** Possible section swS 4451-75-7658 needs Dig & Replace swS 4451-85-0701 swC 4451-44-0611 Length = 123 ft Material = 30" CMP Water Sag, Bottom Missing, Dig & swS 4451-75-1248 swS 4451-65-0207 Replace swS 4451-55-2272 5516 1280 swC 4451-45-9017 swS'4451-44-5941 Length = 79 ftMaterial = 30" CMP 1307 **Hole Soil Visible** swC 4451-65-5278 Length = 114 ft Material = 36" CMP swS 4451-34-4380 **Holes Soil Visible Water Sag** 5508 MITHAM DR 1315 OLEMPICH DR swC 4451-43-1713 **Length = 170 ft** Material = 24" CMP swS 4451-33-0647 **Joint Separation** swC 4451-33-2969 **Hole Soil Visible** 1273 Length = 77 ft Material = 30" CMP **Hole Soil Visible** 5511 swS 4451-43-7146 swC 4451-43-6042 1285 Length = 36 ft 1318 swS 4451-42-5847 Material = 24" CMP Paved invert worn 1293 off, Hole in CB #5847 1326 swS 4451-22-8477

*The City of Dunwoody does not warrant the accuracy or currency of the map provided

and does not guarantee the suitability of the map for any purpose, expressed or implied.

IPR Southeast LLC					
ESTIMATE - RFP 18-04 2018 STANDBY STORMWATER REPAIR UNIT CONTRACT					
PROJECT LOCATION:	1280 Witham Drive Dunwoody, GA 30338				
DATE ESTIMATE PREPARED:	10-Sep-19				
ESTIMATE PREPARED BY:	Daniel Guse				
ESTIMATE AMOUNT:	\$164,968.75				
20 % CONTINGENCY:	\$32,993.75				
ESTIMATE GRAND TOTAL:	\$197,962.50				

Pre-l	ining Work:
	CCTV and Cleaning
	Locate and Raise 1 buried junction box
	Replace Tops with Man Entry Tops
	Convert existing tops to standard pedestal tops
	Pipe Invert Repair
	Open Cut Replace approximately 15 LF of 36" pipe
Linir	g Work:
	200 LF of 24" pipe x 10.5 mm
	470 LF of 36" pipe x 16.5 mm
Post	Lining Work:
	Restoration
	Pipe End Seals
	New Inverts in all Structures
	Post CCTV

ITEM #	Description	Unit	Unit Price Quantity		Total Costs	
	General Conditions					
1	Mobilization	EA	\$ 2,000.00	1.00	\$ 2,000.00	
2	Out of Scope Work, Foreman	HR	\$ 85.00	10.00	\$ 850.00	
3	Out of Scope Work, Laborer	HR	\$ 70.00	30.00	\$ 2,100.00	
	Traffic Control					
5	Traffic Control Minor 2 - Includes Cones and Signage	DA	\$ 1,850.00	3.00	\$ 5,550.00	
	TV Inspection and Jet-Vac Cleaning					
7	CCTV Storm (w/ DVD & Report)	LF	\$ 2.50	670.00	\$ 1,675.00	
_	Storm Cleaning (less than 25% full)					

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14 24" Pipe - Cleaning less than 25% full	4.4	24 Pier Classica 122 122 123 124 125 1	1			• • • • • •	1 100 00
Spiral Rib CMP				1			
Includes excavation, backfill, & compaction LF \$ 50.00	16		LF	\$	6.75	470.00	\$ 3,172.50
Second Process		•					
Flowable Paved Pipe Invert							
125 36" Diameter	50		LF	\$	50.00	45.00	\$ 2,250.00
Internal Point Repair		-					
36" Diameter	125		LF	\$	45.00	75.00	\$ 3,375.00
Storm Drain Inlets & Manholes New Std Inlet GDOT 1019/1011 or DeKalb Std		-					
New Std Inlet GDOT 1019/1011 or DeKalb Std Brick Square Inlets	134		LF	\$	200.00	15.00	\$ 3,000.00
Brick Square Inlets							
147 5' Square Brick Inlets w/Flush Grate Only VF \$ 650.00 3.00 \$ 1,950.00		-					
Brick Round Inlets		·					
156 5' Round Brick Inlet w/Flush Grate VF \$ 550.00 6.00 \$ 3,300.00	147		VF	\$	650.00	3.00	\$ 1,950.00
Round Precast Manholes Signature Sig		Brick Round Inlets					
192 5' Round Brick MH w/ Ring & Cover VF \$ 550.00 5.00 \$ 2,750.00	156	5' Round Brick Inlet w/Flush Grate	VF	\$	550.00	6.00	\$ 3,300.00
Misc & Special Structures/Components 198 5' Dia Pedestal Top w MH R/C EA \$ 1,100.00 3.00 \$ 3,300.00		Round Precast Manholes					
198 5' Dia Pedestal Top w MH R/C	192	5' Round Brick MH w/ Ring & Cover	VF	\$	550.00	5.00	\$ 2,750.00
210 Invert Installation, 5' Dia		Misc & Special Structures/Components					
214 Uncover Buried JB (4'-7.9)	198	5' Dia Pedestal Top w MH R/C	EA	\$	1,100.00	3.00	\$ 3,300.00
Cast in Place Concrete Cast as Cast in Cast	210	Invert Installation, 5' Dia	EA	\$	375.00	8.00	\$ 3,000.00
224 24" Grout Each End to Structure EA \$ 225.00 4.00 \$ 900.00 227 36" Grout Each End to Structure EA \$ 250.00 12.00 \$ 3,000.00 Lining Requirements CIPP (12' or less in depth) Includes Pre and Post TV during lining 240 24" - 10.0mm (.3937") LF \$ 93.00 200.00 \$ 18,600.00 242 36" - 16.0mm (.6299") LF \$ 145.00 470.00 \$ 68,150.00 257 Add Thickness Per 1.5mm -24" LF \$ 3.50 200.00 \$ 700.00 259 Add Thickness Per 1.5mm -36" LF \$ 5.00 470.00 \$ 2,350.00 Inversion Setup 270 Inversion Setup Charge 15-36" CIPP EA \$ 900.00 4.00 \$ 3,600.00 Cast in Place Concrete 339 Reg. Duty Sidewalk (4" Thick, 3000 psi),<5 length	214	Uncover Buried JB (4'-7.9)	EA	\$	600.00	1.00	\$ 600.00
EA \$ 250.00 12.00 \$ 3,000.00		Grout Connection to Structure					
Lining Requirements	224	24" Grout Each End to Structure	EA	\$	225.00	4.00	\$ 900.00
CIPP (12' or less in depth)	227	36" Grout Each End to Structure	EA	\$	250.00	12.00	\$ 3,000.00
Includes Pre and Post TV during lining		Lining Requirements					
240 24" - 10.0mm (.3937") LF \$ 93.00 200.00 \$ 18,600.00 242 36" - 16.0mm (.6299") LF \$ 145.00 470.00 \$ 68,150.00 257 Add Thickness Per 1.5mm -24" LF \$ 3.50 200.00 \$ 700.00 259 Add Thickness Per 1.5mm -36" LF \$ 5.00 470.00 \$ 2,350.00 Inversion Setup 270 Inversion Setup Charge 15-36" CIPP EA \$ 900.00 4.00 \$ 3,600.00 Cast in Place Concrete 339 Reg. Duty Sidewalk (4" Thick, 3000 psi),<5 length		CIPP (12' or less in depth)					
242 36" - 16.0mm (.6299") LF \$ 145.00 470.00 \$ 68,150.00 257 Add Thickness Per 1.5mm -24" LF \$ 3.50 200.00 \$ 700.00 259 Add Thickness Per 1.5mm -36" LF \$ 5.00 470.00 \$ 2,350.00 Inversion Setup 270 Inversion Setup Charge 15-36" CIPP EA \$ 900.00 4.00 \$ 3,600.00 Cast in Place Concrete 339 Reg. Duty Sidewalk (4" Thick, 3000 psi),<5 length		Includes Pre and Post TV during lining					
257 Add Thickness Per 1.5mm -24" LF \$ 3.50 200.00 \$ 700.00 259 Add Thickness Per 1.5mm -36" LF \$ 5.00 470.00 \$ 2,350.00 Inversion Setup 270 Inversion Setup Charge 15-36" CIPP EA \$ 900.00 4.00 \$ 3,600.00 Cast in Place Concrete 339 Reg. Duty Sidewalk (4" Thick, 3000 psi),<5 length	240	24" - 10.0mm (.3937")	LF	\$	93.00	200.00	\$ 18,600.00
259 Add Thickness Per 1.5mm -36" LF \$ 5.00 470.00 \$ 2,350.00 Inversion Setup 270 Inversion Setup Charge 15-36" CIPP EA \$ 900.00 4.00 \$ 3,600.00 Cast in Place Concrete 339 Reg. Duty Sidewalk (4" Thick, 3000 psi),<5 length	242	36" - 16.0mm (.6299")	LF	\$	145.00	470.00	\$ 68,150.00
Inversion Setup EA	257	Add Thickness Per 1.5mm -24"	LF	\$	3.50	200.00	\$ 700.00
270 Inversion Setup Charge 15-36" CIPP	259	Add Thickness Per 1.5mm -36"	LF	\$	5.00	470.00	\$ 2,350.00
Cast in Place Concrete 339 Reg. Duty Sidewalk (4" Thick, 3000 psi),<5 length		Inversion Setup					
Cast in Place Concrete 339 Reg. Duty Sidewalk (4" Thick, 3000 psi),<5 length	270	Inversion Setup Charge 15-36" CIPP	EA	\$	900.00	4.00	\$ 3,600.00
Earthwork & Grading 362 Tree Removal 6"- 12" EA \$ 550.00 4.00 \$ 2,200.00 365 Clear & Grubbing SY \$ 12.50 80.00 \$ 1,000.00 369 Haul-Off Soil Material CY \$ 50.00 \$ 250.00 370 Finish Grading SY \$ 5.00 275.00 \$ 1,375.00		Cast in Place Concrete					
Earthwork & Grading EA \$ 550.00 4.00 \$ 2,200.00 365 Clear & Grubbing SY \$ 12.50 80.00 \$ 1,000.00 369 Haul-Off Soil Material CY \$ 50.00 \$ 250.00 370 Finish Grading SY \$ 5.00 275.00 \$ 1,375.00	339	Reg. Duty Sidewalk (4" Thick, 3000 psi),<5 length	SY	\$	65.00	58.00	\$ 3,770.00
365 Clear & Grubbing SY \$ 12.50 80.00 \$ 1,000.00 369 Haul-Off Soil Material CY \$ 50.00 \$ 250.00 370 Finish Grading SY \$ 5.00 275.00 \$ 1,375.00		Earthwork & Grading					
365 Clear & Grubbing SY \$ 12.50 80.00 \$ 1,000.00 369 Haul-Off Soil Material CY \$ 50.00 \$ 250.00 370 Finish Grading SY \$ 5.00 275.00 \$ 1,375.00	362	Tree Removal 6"- 12"	EA	\$	550.00	4.00	\$ 2,200.00
369 Haul-Off Soil Material CY \$ 50.00 5.00 \$ 250.00 370 Finish Grading SY \$ 5.00 275.00 \$ 1,375.00	365	Clear & Grubbing	SY				-
370 Finish Grading SY \$ 5.00 275.00 \$ 1,375.00	369	Haul-Off Soil Material	CY				
	370	Finish Grading	SY	1			
- 572 Debits Reitioval CY S 60.00 10.00 \$ 600.00	372	Debris Removal	CY	\$	60.00	10.00	600.00

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	Erosion Control				
374	Stone Rip Rap Type III In Place	SY	\$ 65.00	15.00	\$ 975.00
379	Install & Remove Type C Silt Fence-ALT	LF	\$ 6.00	50.00	\$ 300.00
382	Install & Remove Orange Tree Save Fence	LF	\$ 30.00	100.00	\$ 3,000.00
388	Sodding Complete - Fescue	SY	\$ 5.75	275.00	\$ 1,581.25
395	Tree Replacment 1-1/2" Harwood, Installed	EA	\$ 275.00	3.00	\$ 825.00
401	Shrub Replacement: 5 gallon, installed	EA	\$ 135.00	5.00	\$ 675.00
	Miscellaneous Items				
407	Debris Removal, Tandem Dump Truck	Load	\$ 800.00	2.00	\$ 1,600.00
409	Removal of Existing Drainage Structure	EA	\$ 850.00	5.00	\$ 4,250.00
410	Removal Existing Pipe all Types and Sizes	LF	\$ 65.00	45.00	\$ 2,925.00
412	Stone #57	Ton	\$ 42.00	10.00	\$ 420.00
414	No.3's and 4' Stone	Ton	\$ 45.00	10.00	\$ 450.00
430	Rem/Rep Existing 6' Wood Fence Residential	LF	\$ 75.00	20.00	\$ 1,500.00
	TOTAL ESTIMATE				\$ 164,968.75

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YTD Stormwater Repairs & Maintenance Budget

FY 2019 Remaining Balance	\$341,748.60
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
5252 Redfield Ct (Dig & Replace Pipe Repair/Lining)	\$207,519.96
5134 Meadowlake Ln (Pipe Lining)	\$70,275.00
Estimated Remaining balance	-\$56,650.74
Stormwater Reserve F	und
Current Balance	\$2,688,155.95
1280 Witham Dr (Dig & Replace Pipe Repair/Lining)	\$197,962.50
Estimated Remaining balance	\$2,433,542.71