

MEMORANDUM

To: Mayor and City Council

From: Carl Thomas

Date: February 11, 2019

Subject: **Approval of Additional Funding for 1266 Redfield Ridge Stormwater Repairs**

ITEM DESCRIPTION

Request for Council to approve additional funding for stormwater pipe repairs at **1266 Redfield Ridge**. Original estimate for the repairs was \$112,415.33, which included a 10% contingency. The first phase of repairs was completed in 2018 for a total of \$47,073.25. The quote for phase two has been revised to \$78,531.75. Total estimate for repairs with 10% contingency is now **\$125,605.00**.

BACKGROUND

On September 11th 2018, City Council approved funding for stormwater pipe repairs at 1266 Redfield Ridge. Included in the quote were point repairs and lining of over 700 combined feet of 18" and 24" CMP. At the time of the initial CCTV inspections in June 2018, there was one section of 24" CMP between structures 10105 and 10107 that could not be accessed due to the pipe being obstructed on both ends by debris and a buried junction box. In November, during preparatory work prior to lining, IPR uncovered the buried manhole and completed the CCTV inspection for the previously inaccessible section of pipe. The new video revealed a 30-foot section of pipe with total invert failure that requires excavation and replacement (photo attached). Pipe lining and point repairs for originally quoted segments of 18" CMP were completed in 2018 and invoiced for \$47,073.25. The quote for the remaining 440 feet of 24" CMP lining has been revised to add the replacement of the 30-foot section of failed pipe prior to lining. The revised quote is \$78,531.75 which takes the total cost of repairs, with contingency, to \$125,605.00, or \$13,189.67 above the originally approved quote.

RECOMMENDED ACTION

Staff recommends approving \$78,531.75 in funding for Stormwater Pipe Repairs at 1266 Redfield Ridge from the stormwater repairs and maintenance budget.



TOTAL INVERT FAILURE IN PIPE

| IPR Southeast LLC | |
|---|---|
| Remaining Work for Redfield Ridge including unforeseen point repair and invert repairs on 24" pipe | |
| PROJECT LOCATION: | 1266 Redfield Ridge Dunwoody, GA 30338 |
| DATE ESTIMATE PREPARED: | (original on 8/1/2018) |
| ESTIMATE PREPARED BY: | Dan Guse (original estimate was \$112,415.33) |
| Already Billed \$47,073.25 Plus Remaining Work \$78,531.75 = \$125,605.00 | |
| ESTIMATE AMOUNT: | \$71,392.50 |
| 10 % CONTINGENCY: | \$7,139.25 |
| ESTIMATE GRAND TOTAL: | \$78,531.75 |

| Pre-Lining Work: | |
|--------------------------|---|
| | Pre CCTV and Cleaning |
| | 30 LF Point Repair between 10105 and 10107 - (from upstream structure 70' to 107') |
| | Invert Repair at 130' downstream of 10105 |
| | |
| | |
| Lining Work: | |
| | 440 LF X 24" X 10.5 mm CIPP |
| | |
| | |
| Post Lining Work: | |
| | Post CCTV |
| | Restoration at 1242 Redfield Ridge after Point Repair |
| | Crawl up lined pipe to cut out intermediate drainage structure behind 1250 Redfield Ridge |
| | |
| | |

| 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 | 26.00 | \$ 2,210.00 |
| 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 | 1.00 | \$ 1,850.00 |
| TV Inspection and Jet-Vac Cleaning | | | | | |
| 7 | CCTV Storm (w/ DVD & Report) | LF | \$ 2.50 | 440.00 | \$ 1,100.00 |
| Storm Cleaning (less than 25% full) | | | | | |
| 14 | 24" Pipe - Cleaning less than 25% full | LF | \$ 5.50 | 440.00 | \$ 2,420.00 |

| | | | | | |
|-----|--|------|-----------|--------|--------------------|
| | Spiral Rib CMP | | | | |
| | includes excavation, backfill, & compaction | | | | |
| 48 | 24" SRCMP | LF | \$ 35.00 | 30.00 | \$ 1,050.00 |
| | Flowable Paved Pipe Invert | | | | |
| 123 | 24" Diameter | LF | \$ 35.00 | 25.00 | \$ 875.00 |
| | Lining Requirements | | | | |
| | CIPP (12' or less in depth) | | | | |
| | Includes Pre and Post TV during lining | | | | |
| 240 | 24" - 10.0mm (.3937") | LF | \$ 93.00 | 440.00 | \$ 40,920.00 |
| 257 | Add Thickness Per 1.5mm -24" | LF | \$ 3.50 | 440.00 | \$ 1,540.00 |
| | Inversion Setup | | | | |
| 270 | Inversion Setup Charge 15-36" CIPP | EA | \$ 900.00 | 1.00 | \$ 900.00 |
| | Earthwork & Grading | | | | |
| 362 | Tree Removal 6"- 12" | EA | \$ 550.00 | 4.00 | \$ 2,200.00 |
| 368 | Haul-In Structural Fill Material | CY | \$ 50.00 | 40.00 | \$ 2,000.00 |
| 370 | Finish Grading | SY | \$ 5.00 | 250.00 | \$ 1,250.00 |
| | Erosion Control | | | | |
| 378 | Install & Remove Type C Silt Fence | LF | \$ 6.00 | 150.00 | \$ 900.00 |
| 389 | Sodding Complete - Bermuda | SY | \$ 5.75 | 250.00 | \$ 1,437.50 |
| 393 | Pine Straw | SY | \$ 2.50 | 40.00 | \$ 100.00 |
| 396 | Tree Replacment 2-1/2" Hardwood, Installed | EA | \$ 275.00 | 4.00 | \$ 1,100.00 |
| 399 | Shrub Replacement: 1 gallon, installed | EA | \$ 70.00 | 8.00 | \$ 560.00 |
| | Miscellaneous Items | | | | |
| 407 | Debris Removal, Tandem Dump Truck | Load | \$ 800.00 | 1.00 | \$ 800.00 |
| 410 | Removal Existing Pipe all Types and Sizes | LF | \$ 65.00 | 30.00 | \$ 1,950.00 |
| 412 | Stone #57 | Ton | \$ 42.00 | 15.00 | \$ 630.00 |
| 425 | Rem/Rep 4' Galvanized Chain Link Fence Residential | LF | \$ 25.00 | 60.00 | \$ 1,500.00 |
| | TOTAL ESTIMATE | | | | \$71,392.50 |