

**To:** Mayor and City Council  
**From:** Carl Thomas, Stormwater Utility Manager  
**Re:** Funding Authorization for 4706 Equestrian Way Storm Repairs  
**Date:** September 26<sup>th</sup>, 2023

### **Action**

Authorize the Mayor, City Manager, or designee to approve \$220,614.46 in funding for Stormwater Pipe Repairs at 4706 Equestrian Way.

### **Summary/Details**

Structural deficiencies to the storm system on Equestrian Way were identified by staff performing routine inspections. The pipe system is composed of +/- 200 linear feet (LF) of 18 and 48-inch corrugated metal pipe (CMP) that is approximately 40 years old and in poor condition. Closed-Caption Television (CCTV) footage discovered corrosion, visible holes, and water sag. Recommended repairs include:

- Repair +/- 40 LF of 18-inch CMP with Cured-In-Place Pipe (CIPP) liner
- Repair +/- 160 LF of 48-inch CMP with Spray-On Spincast Liner
- 60 hours bypass pumping
- 10 days Minor traffic control

If approved by Council, this project will be funded from the American Rescue Plan Act (ARPA) budget allocated for stormwater improvement projects.

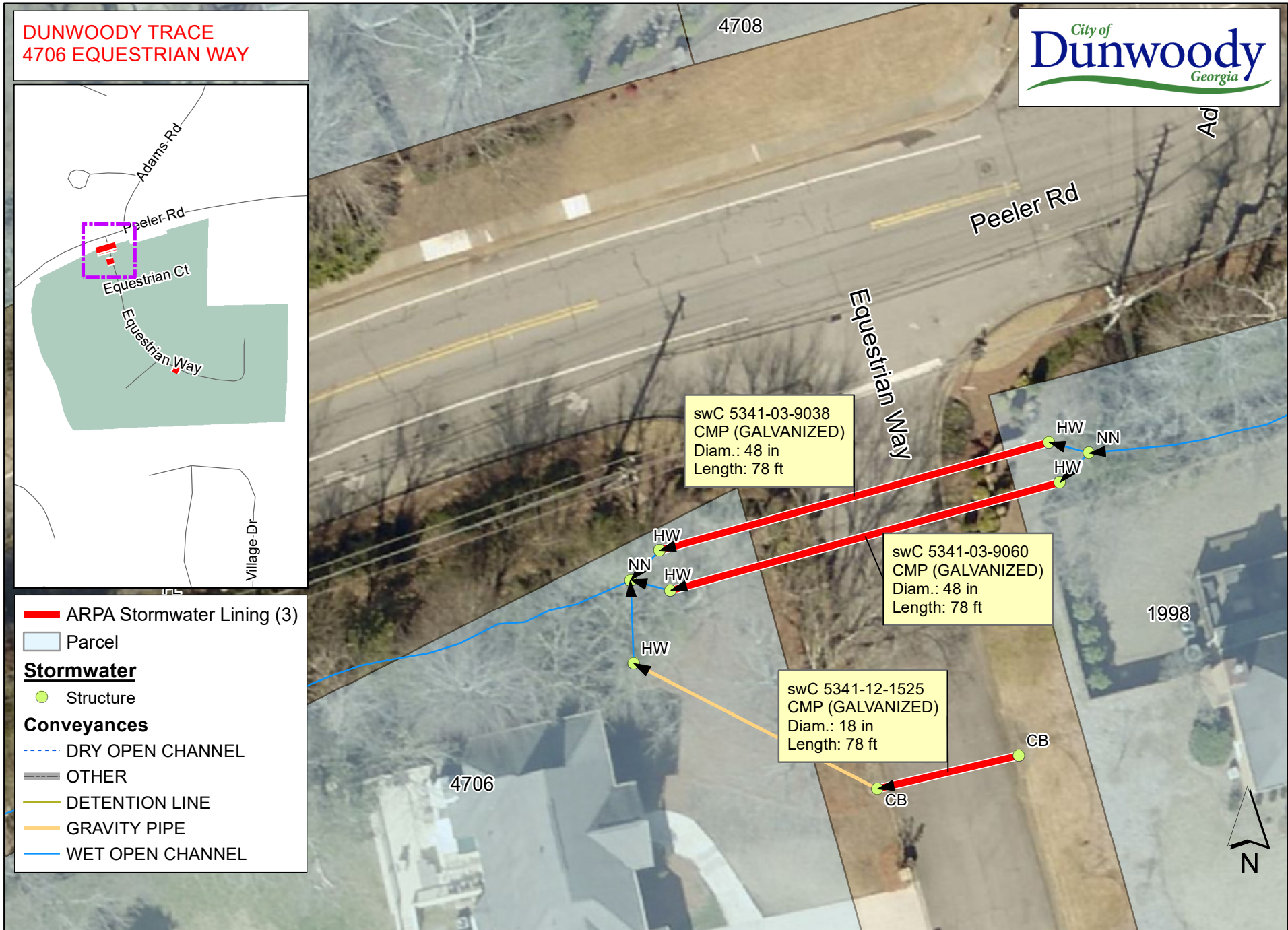
### **Recommendation**

Staff recommends approving \$220,614.46 in funding for Stormwater Pipe Repairs at 4706 Equestrian Way.

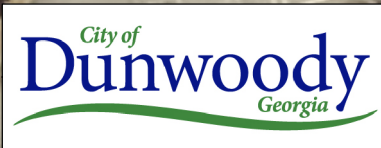


## Severe Corrosion with visible holes Water Sagging





**DUNWOODY TRACE**  
**4706 EQUESTRIAN WAY**



- ARPA Stormwater Lining (3)
- Parcel
- Stormwater**
- Structure
- Conveyances**
- DRY OPEN CHANNEL
- OTHER
- DETENTION LINE
- GRAVITY PIPE
- WET OPEN CHANNEL

swC 5341-03-9038  
 CMP (GALVANIZED)  
 Diam.: 48 in  
 Length: 78 ft

swC 5341-03-9060  
 CMP (GALVANIZED)  
 Diam.: 48 in  
 Length: 78 ft

swC 5341-12-1525  
 CMP (GALVANIZED)  
 Diam.: 18 in  
 Length: 78 ft



SOUTHERN PREMIER CONTRACTORS, INC  
 146 CHEEK STREET  
 HOMER, GA 30547

# Estimate

Date	Estimate #
9/11/2023	229023

Name / Address
CITY OF DUNWOODY 4800 ASHFORD DUNWOODY DUNWOODY, GA 30338

Project
4706 EQUESTRIAN WAY

Item	Qty	Description	Rate	Amount
DN001	1	MOBILIZATION	2,133.80	2,133.80
DN005	10	TRAFFIC CONTROL MINOR 2 - INCLUDES CONES & SIGNAGE	1,920.42	19,204.20
DN008	192	TV STORM LINES (INCLUDES DVD & REPORT)	4.27	819.84
DN013	32	18" PIPE - CLEANING LESS THAN 25% FULL	6.24	199.68
DN019	160	48" PIPE - CLEANING LESS THAN 25% FULL	9.60	1,536.00
DN128	2	18" DIAMETER INTERNAL PIPE POINT REPAIR	640.14	1,280.28
DN133	15	48" DIAMETER INTERNAL PIPE POINT REPAIR	426.76	6,401.40
DN204	2	CAST-IN-PLACE TOP ONLY w/RING & COVER	2,667.25	5,334.50
DN205	2	CAST-IN-PLACE THROAT ONLY	2,987.32	5,974.64
DN217	4	PRESSURE GROUTING (PUMPING INCLUDED IF NEEDED)	1,920.42	7,681.68
DN220	2	18" GROUT EACH END TO STRUCTURE	208.05	416.10
DN227	4	48" GROUT EACH END TO STRUCTURE	346.74	1,386.96
DN232	2	GROUT ALL JOINT, CRACKS & HOLES IN STRUCTURE, COMPLETE 8' deep or less	853.52	1,707.04
DN305	32	18" PIPE - 9.0 MM (.354") CIPP	160.04	5,121.28
DN3381	1	INVERSION SETUP CHARGE 15"-36" CIPP	2,667.25	2,667.25
DN3451	160	48" CENT. SPIN CAST LINING	586.80	93,888.00
DN346	50	CURB & GUTTER 6"X24"X12" HIGH BACK	55.48	2,774.00
DN350	2	CONCRETE DRAINAGE STRUCTURES POURED IN PLACE w/STEEL	2,133.80	4,267.60
DN360	1	TREE REMOVAL 6"-12"	1,066.90	1,066.90
DN364	15	CHANNEL EXCAVATION	26.67	400.05
DN372	18	STONE RIP RAP TYPE III IN PLACE	101.36	1,824.48
DN380	100	INSTALL & REMOVE ORANGE TREE SAVE FENCE	10.67	1,067.00
DN382	20	PERMANENT SOIL REINF MAT INSTALLED	11.74	234.80
DN387	28	SODDING COMPLETE - BERMUDA	16.00	448.00
DN391	20	PINE STRAW	9.60	192.00
DN407	1	DEBRIS REMOVAL, TANDEM DUMP TRUCK	906.87	906.87
DN409	4	REMOVAL OF EXISTING DRAINAGE STRUCTURES	2,400.53	9,602.12
DN411	75	SAW CUT EXISTING PAVEMENTS	5.33	399.75
DN418	1	BYPASS PUMPING SETUP-EQUIPMENT AND HOSE PLACEMENT	1,066.90	1,066.90
DN419	60	4" PUMPING OPERATION TIME	64.01	3,840.60

Thank you for your business!  
 ~ Grace Grace ~

**Total**



SOUTHERN PREMIER CONTRACTORS, INC  
146 CHEEK STREET  
HOMER, GA 30547

# Estimate

Date	Estimate #
9/11/2023	229023

Name / Address
CITY OF DUNWOODY 4800 ASHFORD DUNWOODY DUNWOODY, GA 30338

Project
4706 EQUESTRIAN WAY

Item	Qty	Description	Rate	Amount
CON		20% CONTINGENCY	36,770.74	36,770.74

Thank you for your business! ~ Grace Grace ~	<b>Total</b>	\$220,614.46
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**To:** Mayor and City Council  
**From:** Carl Thomas, Stormwater Utility Manager  
**Re:** Funding Authorization for 4964 Buckline Crossing Storm Repairs  
**Date:** September 26<sup>th</sup>, 2023

### **Action**

Authorize the Mayor, City Manager, or designee to approve \$162,811.29 in funding for Stormwater Pipe Repairs at 4964 Buckline Crossing.

### **Summary/Details**

Structural deficiencies to the storm system on Buckline Crossing were identified responding to a sinkhole reported by the homeowner. The pipe system is composed of +/- 350 linear feet (LF) of 30-inch corrugated metal pipe (CMP) that is approximately 45 years old and in poor condition. Closed-Caption Television (CCTV) footage discovered corrosion, multiple private tie-ins, visible holes, and minor joint separation. Recommended repairs include:

- Repair +/- 350 LF of 30-inch CMP with Cured-In-Place Pipe (CIPP) liner
- Install three (3) 4-foot brick manholes with pedestal tops/grates
- Seven (7) days of Minor Traffic Control

If approved by Council, this project will be funded from the Stormwater Repairs and Maintenance budget allocated for stormwater improvement projects.

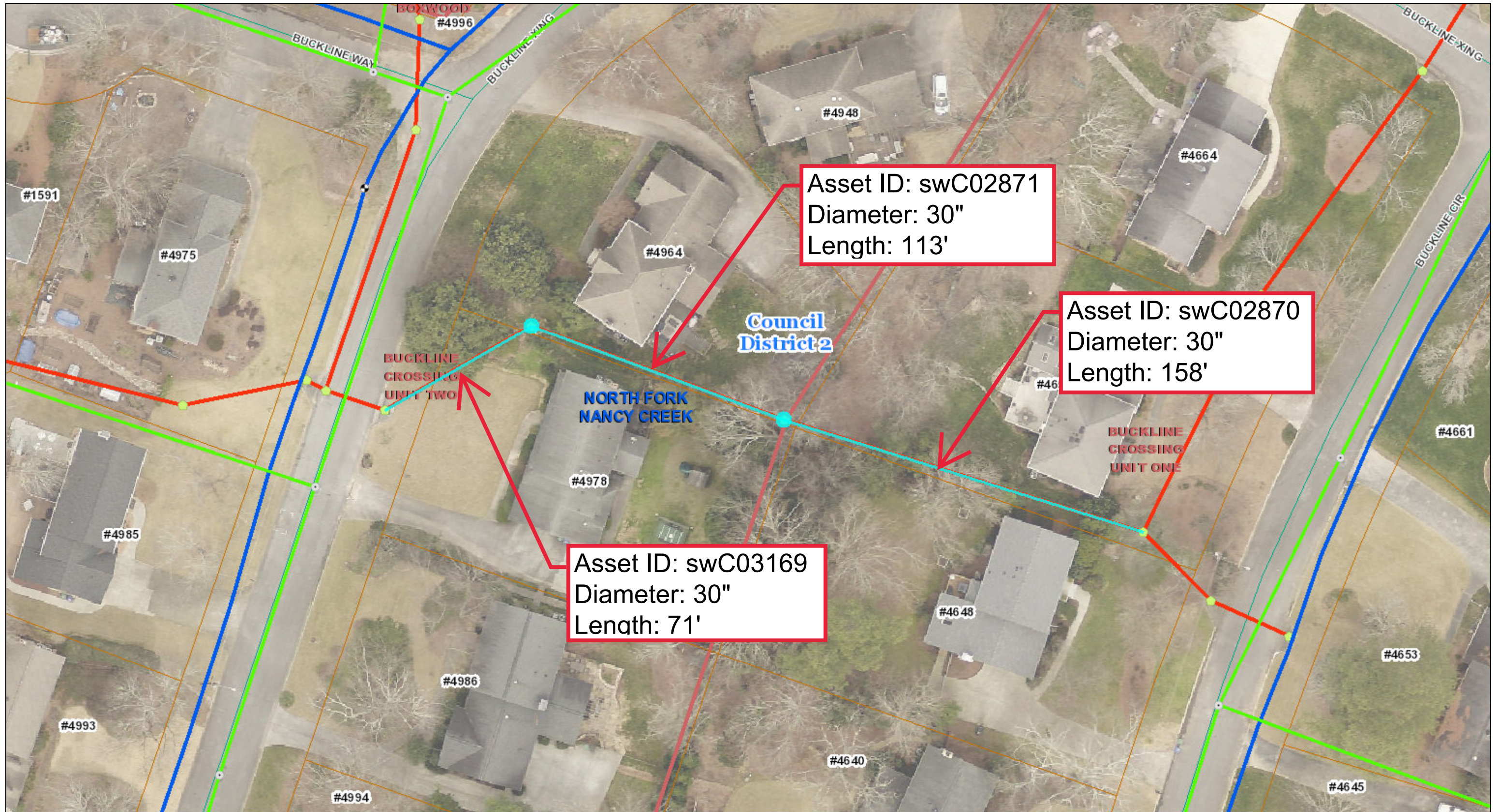
### **Recommendation**

Staff recommends approving \$162,811.29 in funding for Stormwater Pipe Repairs at 4964 Buckline Crossing.



## Corrosion with visible holes Multiple private drain tie-ins





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4964 Buckline Xing

UNIT PRICE SCHEDULE				
Item	Unit	QTY	SEP \$ Rate	TOTAL
Mobilization	EA	1	\$1,627.02	\$ 1,627.02
Traffic Control minor 2 = includes Cones and Signs	Per Day	7	\$2,347.18	\$ 16,430.26
TV Storm Lines (includes DVD & Report)	LF	350	\$5.33	\$ 1,867.08
30" PIPE - Cleaning less than 25% full	LF	350	\$7.47	\$ 2,613.91
12" to 36" PIPE	LF	160	\$48.01	\$ 7,681.68
30" Diameter	LF	12	\$400.09	\$ 4,801.05
4' Square Brick Inlet w/ Flush Grate Only	VF	2	\$906.87	\$ 1,813.73
4' Square Brick Inlet w/ Pedestal Top & Grate	VF	2	\$826.85	\$ 1,653.70
4' Round Brick Inlet w/ Pedestal Top & Grate or MH Ring & Cover	VF	2	\$826.85	\$ 1,653.70
Cast-in-Place Top Only w/Ring & Cover	EA	2	\$2,133.80	\$ 4,267.60
Cast-in-Place Throat Only	EA	2	\$1,920.42	\$ 3,840.84
Invert Installation, 4' Diameter	EA	4	\$480.11	\$ 1,920.42
Uncover Buried Junction Box (<4')	EA	1	\$1,120.25	\$ 1,120.25
Flowable Fill Abandonment (Pumping included if needed)	CY	1.5	\$1,253.61	\$ 1,880.41
30" Grout Each End to Structure	EA	9	\$266.73	\$ 2,400.53
Grout all joint, cracks & holes, in structures, complete (structures 8' deep or less)	EA	4	\$666.81	\$ 2,667.25
30" PIPE - 13.5mm (.532")	LF	350	\$189.91	\$ 66,467.87
Inversion Setup Charge 15"- 36" CIPP	EACH	2	\$1,600.35	\$ 3,200.70
Paved Ditch/Swale (4" Thick)	SY	3	\$82.15	\$ 246.45
Clear & Grubbing	SY	50	\$8.00	\$ 400.09
Finish Grading	SY	50	\$9.60	\$ 480.11
Debris Removal	CY	10	\$64.01	\$ 640.14
Topsoil Compete	CY	5	\$80.02	\$ 400.09
Straw Mulch	SY	50	\$8.54	\$ 426.76
Removal of Existing Drainage Structure	EA	1	\$2,400.53	\$ 2,400.53
Remove and Replace Existing 4' Wood Fence Residential	LF	10	\$37.34	\$ 373.42
Remove and Replace Existing 6' Wood Fence Residential	LF	10	\$48.01	\$ 480.11
Adjust Manhole Cover in soil (complete, includes removal or modification of old structure top)	EA	2	\$960.21	\$ 1,920.42
				<b>\$ 135,676.07</b>
20% Contingency				\$ 27,135.21
				<b>\$ 162,811.29</b>

**To:** Mayor and City Council  
**From:** Carl Thomas, Stormwater Utility Manager  
**Re:** Funding Authorization for 5233 Fontainebleau Ct Storm Repairs  
**Date:** September 26<sup>th</sup>, 2023

### **Action**

Authorize the Mayor, City Manager, or designee to approve \$170,421.91 in funding for Stormwater Pipe Repairs at 5233 Fontainebleau Ct.

### **Summary/Details**

Structural deficiencies to the storm system on Fontainebleau Ct were identified responding to a sinkhole reported by the homeowner. The pipe system is composed of +/- 360 linear feet (LF) of 30-inch corrugated metal pipe (CMP) that is approximately 60 years old and in poor condition. Closed-Caption Television (CCTV) footage discovered corrosion, visible holes, deformities, and minor joint separation. Recommended repairs include:

- Repair +/- 360 LF of 30-inch CMP with Cured-In-Place Pipe (CIPP) liner
- Dig and Replace 20 LF of Corrugated Metal Pipe (CMP)
- 133 SY Zoysia Sod replacement

If approved by Council, this project will be funded from the Stormwater Repairs and Maintenance budget allocated for stormwater improvement projects.

### **Recommendation**

Staff recommends approving \$170,421.91 in funding for Stormwater Pipe Repairs at 5233 Fontainebleau Ct.





## Corrosion With Visible Holes Minor Deformities To Pipe Crown

**Lynn Deutsch** Mayor  
**Eric Linton** ICMA-CM City Manager  
**Sharon Lowery** CMC City Clerk

**Catherine Lautenbacher** City Council Post 1  
**Rob Price** City Council Post 2  
**Tom Lambert** City Council Post 3

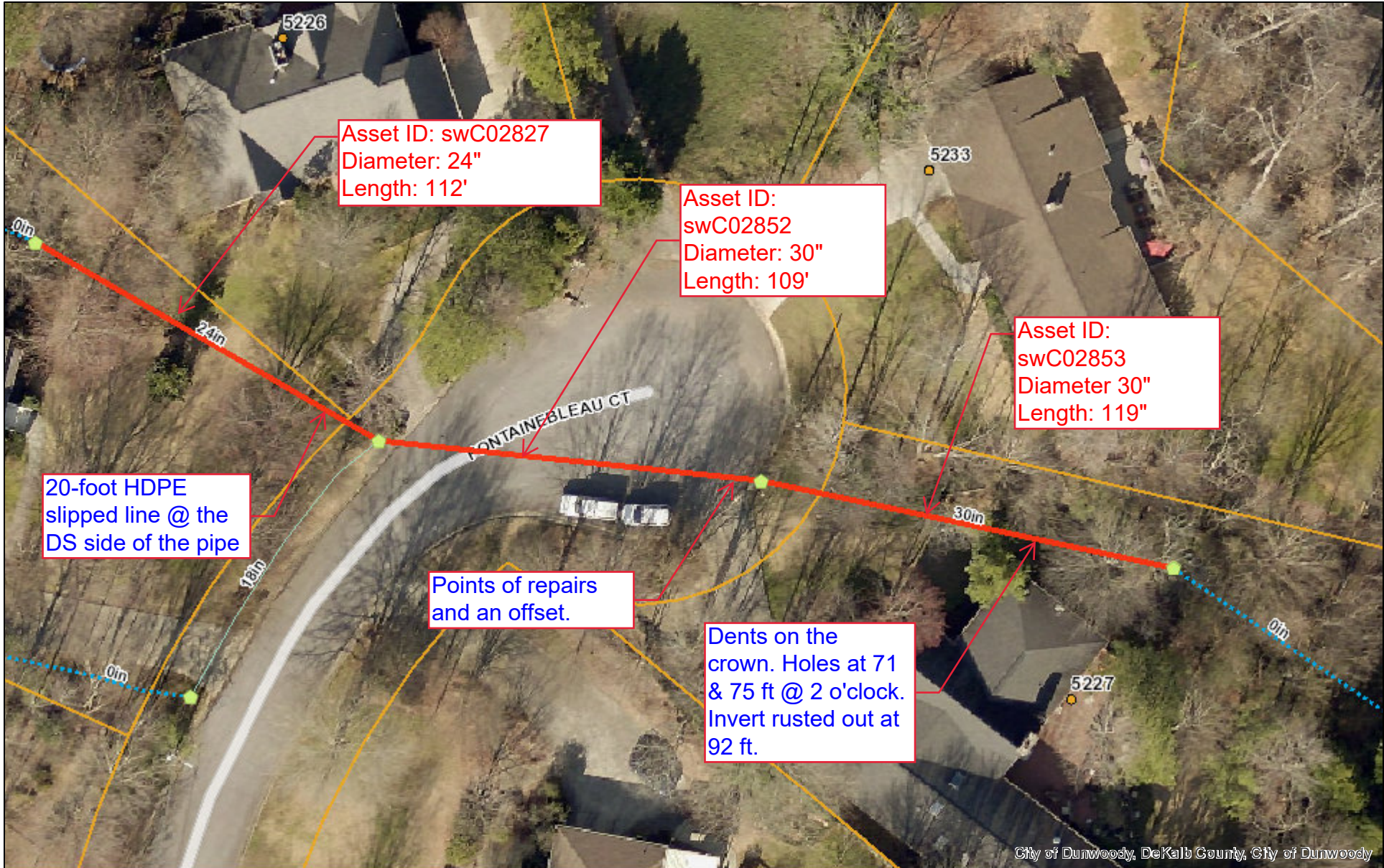
**Stacey Harris** City Council Post 4  
**Joe Seander** City Council Post 5  
**John Heneghan** City Council Post 6



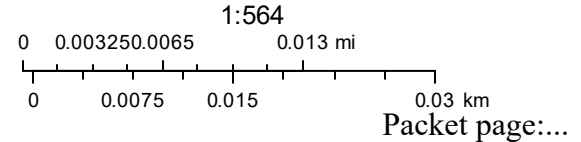
5233 Fontainebleau Ct

UNIT PRICE SCHEDULE				
Item	Unit	QTY	Rate	TOTAL
Mobilization	EA	1	\$1,627.02	\$1,627.02
Traffic Control Minor 2 – Includes Cones and Signage	Per Day	8	\$2,347.18	\$18,777.44
TV Storm Lines (includes DVD & Report)	LF	364	\$5.33	\$1,941.76
30" PIPE - Cleaning less than 25% full	LF	364	\$7.47	\$2,718.46
12" to 36" PIPE	LF	119	\$48.01	\$5,713.25
30" SRCMP	LF	20	\$116.29	\$2,325.84
Precast Headwall for 30" Pipe	EA	1	\$1,509.66	\$1,509.66
30" Diameter	LF	6	\$400.09	\$2,400.53
Cast-in-Place Top Only w/Ring & Cover	EA	1	\$2,133.80	\$2,133.80
Cast-in-Place Throat Only	EA	1	\$1,920.42	\$1,920.42
Invert Installation, 4' Diameter	EA	2	\$480.11	\$960.21
Flowable Fill Abandonment (Pumping included if needed)	CY	2	\$1,253.61	\$2,507.22
30" Grout Each End to Structure	EA	6	\$266.73	\$1,600.35
Grout all joint, cracks & holes, in structures, complete (structures 8' deep or	EA	2	\$666.81	\$1,333.63
30" PIPE - 13.5mm (.532")	LF	364	\$189.91	\$69,126.58
Inversion Setup Charge 15"- 36" CIPP	EACH	2	\$1,600.35	\$3,200.70
Curb & Gutter 6"x24"x12" High Back	LF	68	\$64.01	\$4,352.95
Tree Removal 6"-12'"	EA	1	\$1,173.59	\$1,173.59
Channel Excavation	CY	22	\$24.54	\$539.85
Haul-Off Soil Material	CY	22	\$58.68	\$1,290.95
Finish Grading	SY	22	\$9.60	\$211.25
Debris Removal	CY	20	\$64.01	\$1,280.28
Stone Rip Rap Type I In Place	TON	10	\$90.69	\$906.87
Stone Rip Rap Type III In Place	TON	10	\$90.69	\$906.87
Install & Remove Type A Silt Fence	LF	10	\$5.33	\$53.35
Seed & Straw (Permanent Grassing)	SY	333	\$4.27	\$1,421.11
Sodding Complete-Zoyzia	SY	133	\$27.74	\$3,689.34
Topsoil Compete	CY	10	\$80.02	\$800.18
Straw Mulch	SY	11	\$8.54	\$93.89
Shrub Replacement: 3 gallon, installed	EA	3	\$112.02	\$336.07
Connect to Existing Structures	EA	1	\$480.11	\$480.11
Removal of Existing Drainage Structure	EA	1	\$2,400.53	\$2,400.53
Remove Existing Pipe all Types and Sizes	LF	20	\$53.35	\$1,066.90
Saw Cut Existing Pavements	LF	4	\$4.27	\$17.07
Stone #57	TON	15	\$80.02	\$1,200.26
				<b>\$ 142,018.26</b>
			20% Contingency	\$ 28,403.65
				<b>\$ 170,421.91</b>





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**To:** Mayor and City Council  
**From:** Carl Thomas, Stormwater Utility Manager  
**Re:** Funding Authorization for 5548 Glenrich Drive Storm Repairs  
**Date:** September 26<sup>th</sup>, 2023

### **Action**

Authorize the Mayor, City Manager, or designee to approve \$111,608.35 in funding for Stormwater Pipe Repairs at 5548 Glenrich Drive.

### **Summary/Details**

Structural deficiencies to the storm system on Glenrich Drive were identified by staff performing routine inspections. The pipe system is composed of +/- 70 linear feet (LF) of 18-inch corrugated metal pipe (CMP) that is approximately 53 years old and in poor condition. Closed-Caption Television (CCTV) footage discovered moderate corrosion, sedimentation obstructing the pipe catch/basin, and minor deformities. Recommended repairs include:

- Repair +/- 70 LF of 18-inch CMP with Cured-In-Place Pipe (CIPP) liner
- 8 LF of point repairs
- 4 catch basin top slabs and throats (cast in place)

If approved by Council, this project will be funded from the American Rescue Plan Act (ARPA) budget allocated for stormwater improvement projects.

### **Recommendation**

Staff recommends approving \$111,608.35 in funding for Stormwater Pipe Repairs at 5548 Glenrich Drive.





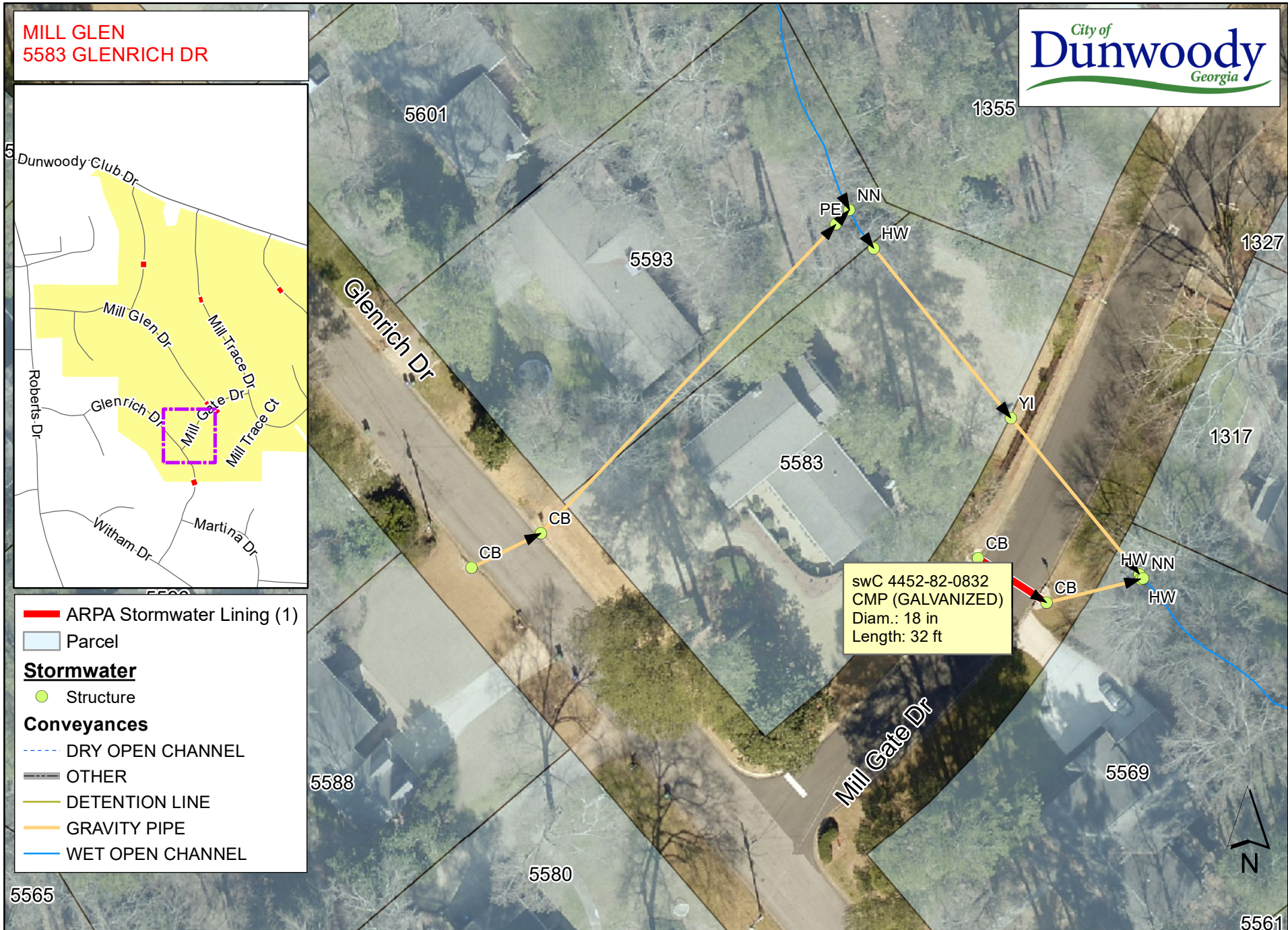
## Invert corrosion, Deformed Crown, Moderate/Heavy Debris Accumulation

### CITY OF DUNWOODY RFP 22-03 STANDBY STORMWATER REPAIR UNIT PRICE CONTRACT

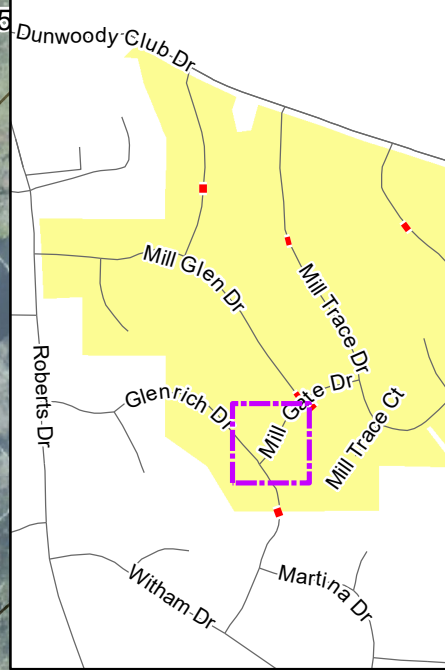
<b>SOUTHERN PREMIER CONTRACTORS, INC. 2023</b>	
<b>PROJECT LOCATION:</b>	5548 Glenrich Drive
<b>Work Order #</b>	2023-00-0043
<b>DATE INVOICE PREPARED:</b>	09.10.2023
<b>Total Estimate (plust 20% contingency):</b>	<b>\$ 111,608.35</b>
<b><u>Pre Lining:</u></b>	
	Clean & Prep Pipes, Internals, Internal Point Repairs, Flowable Fill as needed
	Remove & Replace CB1, CB2, CB3 & CB4
	Replace curb between CB4 & CB1
	Saw cut asphalt & replace between CB4 & CB1
	Remove concrete in invert of CB4 for lining
<b><u>Lining:</u></b>	
	Install 34' of 18" 9.0mm from CB1 to CB2
	Install 34' of 18" 9.0mm from CB3 to CB4
<b><u>Post Lining:</u></b>	
	Install Inverts & Grout Pipes to Structures
	Landscape Disturbed Areas

Item#	Item	Quantity	Unit	Unit Price	Total Cost
1	Mobilization	1	EA	\$ 2,133.80	\$ 2,133.80
5	Traffic Control Minor 2 – Includes Cones and Sig	6	Per Day	\$ 1,920.42	\$ 11,522.52
8	TV Storm Lines (includes DVD & Report)	68	LF	\$ 4.27	\$ 290.36
13	18" PIPE - Cleaning less than 25% full	68	LF	\$ 6.24	\$ 424.41
128	18" Diameter	8	LF	\$ 640.14	\$ 5,121.12
204	Cast-in-Place Top Only w/Ring & Cover	4	EA	\$ 2,667.25	\$ 10,669.00
205	Cast-in-Place Throat Only	4	EA	\$ 2,987.32	\$ 11,949.28
206	Invert Installation, 4' Diameter	4	EA	\$ 480.11	\$ 1,920.42
216	Flowable Fill Abandonment (Pumping included if	1	CY	\$ 1,600.35	\$ 1,600.35
220	18" Grout Each End to Structure	4	EA	\$ 208.05	\$ 832.18
	18" PIPE - 9.0mm (.354")	68	LF	\$ 160.04	\$ 10,882.38
	Inversion Setup Charge 15"- 36" CIPP	2	EACH	\$ 2,667.25	\$ 5,334.50
346	Curb & Gutter 6"x24"x12" High Back	125	LF	\$ 55.48	\$ 6,934.85
358	2" Asph. Con. Hot Mix for Trench Cap	6	Ton	\$ 373.42	\$ 2,240.49
359	8" Thick 3000 psi- Concrete Trench Cap	8	CY	\$ 533.45	\$ 4,267.60
380	Install & Remove Orange Tree Save Fence	400	LF	\$ 10.67	\$ 4,267.60
384	Seed & Straw (Permanent Grassing)	10	SY	\$ 8.54	\$ 85.35
391	Pine Straw	5	EA	\$ 9.60	\$ 48.01
407	Debris Removal, Tandem Dump Truck	2	Per Load	\$ 906.87	\$ 1,813.73
409	Removal of Existing Drainage Structure	4	EA	\$ 2,400.53	\$ 9,602.10
411	Saw Cut Existing Pavements	200	LF	\$ 5.33	\$ 1,066.90
	<b>TOTAL INVOICE</b>				<b>\$ 93,006.96</b>





**MILL GLEN**  
**5583 GLENRICH DR**



- █ ARPA Stormwater Lining (1)
- Parcel
- Stormwater**
- Structure
- Conveyances**
- DRY OPEN CHANNEL
- OTHER
- DETENTION LINE
- GRAVITY PIPE
- WET OPEN CHANNEL

swC 4452-82-0832  
 CMP (GALVANIZED)  
 Diam.: 18 in  
 Length: 32 ft

**To:** Mayor and City Council  
**From:** Carl Thomas, Stormwater Utility Manager  
**Re:** Funding Authorization for 5596 Mill Gate Court Storm Repairs  
**Date:** September 26<sup>th</sup>, 2023

### **Action**

Authorize the Mayor, City Manager, or designee to approve \$182,256.42 in funding for Stormwater Pipe Repairs at 5596 Mill Gate Court.

### **Summary/Details**

Structural deficiencies to the storm system on Mill Gate Court were identified by staff conducting routine storm inspections. The pipe system is composed of +/- 100 linear feet (LF) of 18 and 60-inch corrugated metal pipe (CMP) that is approximately 46 years old and in poor condition. Closed-Caption Television (CCTV) footage discovered corrosion with visible holes. Recommended repairs include:

- Repair +/- 40 LF of 18-inch CMP with Cured-In-Place Pipe (CIPP) liner
- Repair +/- 60 LF of 60-inch CMP with spray on Spincast liner
- 20 CY pressure grout (fill voids in the subgrade)
- 75 hours of bypass pumping

If approved by Council, this project will be funded from the American Rescue Plan Act (ARPA) budget allocated for stormwater improvement projects.

### **Recommendation**

Staff recommends approving \$182,256.42 in funding for Stormwater Pipe Repairs at 5596 Mill Gate Court.





## Corrosion with visible holes



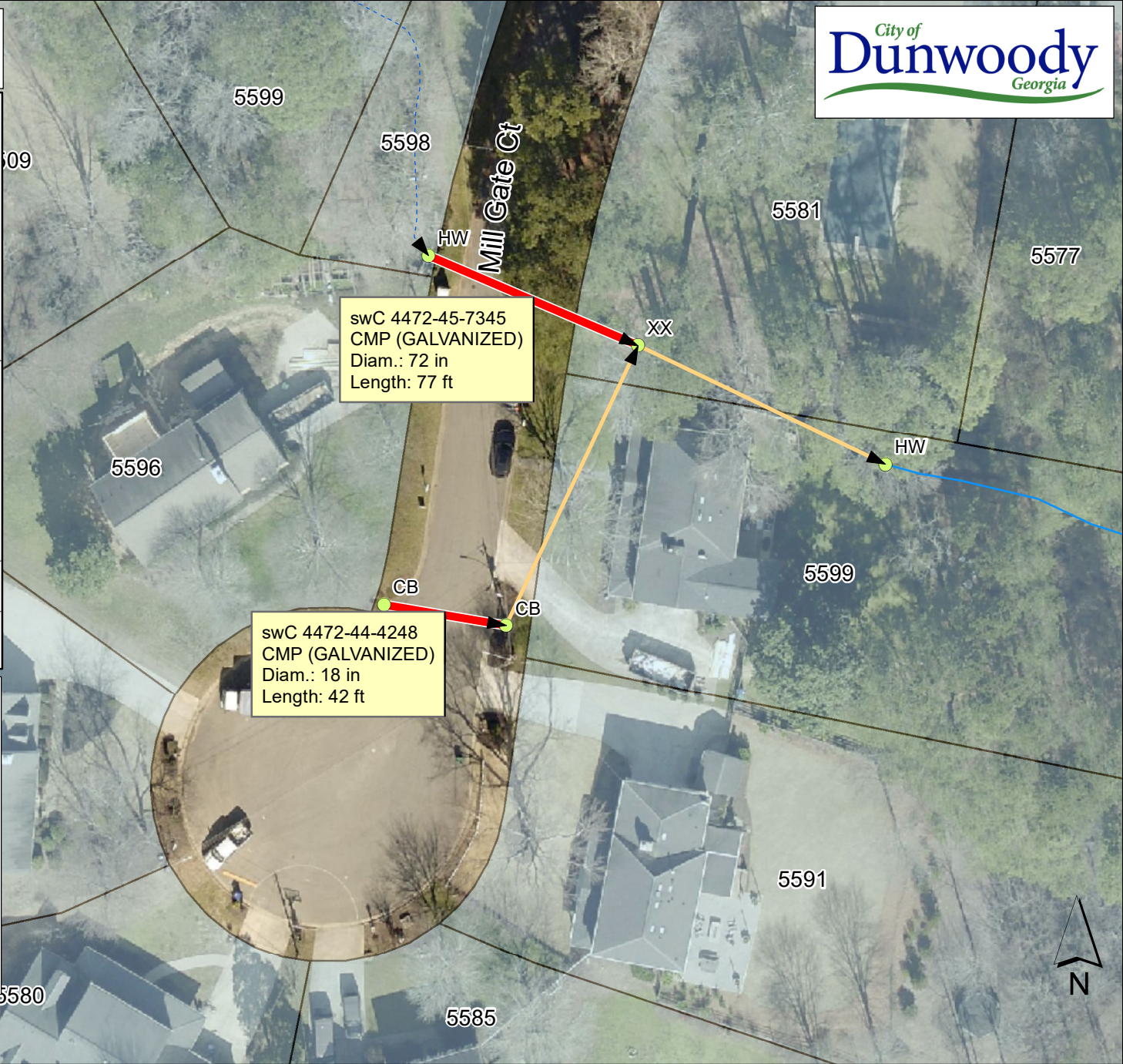
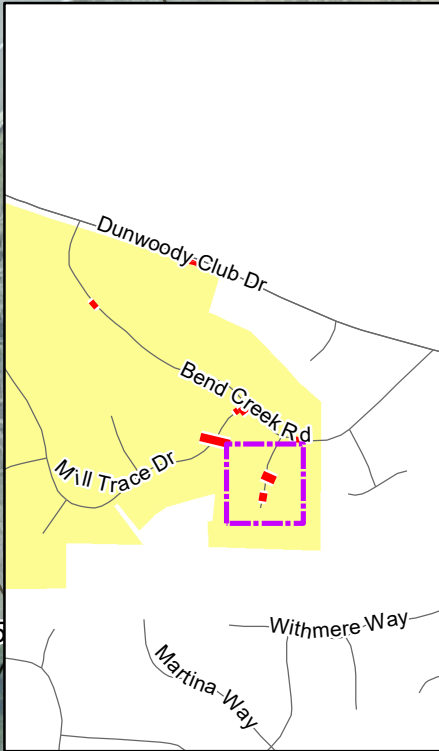
**CITY OF DUNWOODY RFP 22-03 STANDBY STORMWATER REPAIR UNIT PRICE CONTRACT**

<b>SOUTHERN PREMIER CONTRACTORS, INC. 2023</b>	
<b>PROJECT LOCATION:</b>	<b>5596 Mill Gate Court</b>
<b>Work Order #</b>	<b>2023-00-0042</b>
<b>DATE INVOICE PREPARED:</b>	<b>09.10.2023</b>
<b>Estimate</b>	<b>\$ 151,880.14</b>
<b>20% Contingency</b>	<b>\$ 30,376.28</b>
<b>Total Estimate</b>	<b>\$ 182,256.42</b>
<b><u>Pre Lining:</u></b>	
	<b>Clean &amp; Prep Pipes, Internals, Internal Point Repairs, Flowable Fill as needed</b>
	<b>Uncover buried JB1 and raise to grade</b>
	<b>Install new JB top w/ manway access</b>
<b><u>Lining:</u></b>	
	<b>Install 43' of 18" 9.0mm</b>
	<b>Cent. Spin Cast 60' of 54" X 68" CMP</b>
<b><u>Post Lining:</u></b>	
	<b>Install Inverts &amp; Grout Pipes to Structures</b>
	<b>Landscape Disturbed Areas</b>

Item#	Item	Quantity	Unit	Unit Price	Total Cost
1	Mobilization	1	EA	\$ 2,133.80	\$ 2,133.80
5	Traffic Control Minor 2 – Includes Cones and Sig	10	Per Day	\$ 1,920.42	\$ 19,204.20
8	TV Storm Lines (includes DVD & Report)	105	LF	\$ 4.27	\$ 448.35
10	Hydro-Excavation complete (onsite hours only)	3	Per Hour	\$ 400.09	\$ 1,200.27
13	18" PIPE - Cleaning less than 25% full	43	LF	\$ 6.24	\$ 268.38
21	60" PIPE - Cleaning less than 25% full	62	LF	\$ 12.64	\$ 783.85
128	18" Diameter	2	LF	\$ 640.14	\$ 1,280.28
134	60" Diameter	60	LF	\$ 426.76	\$ 25,605.60
206	Invert Installation, 4' Diameter	2	EA	\$ 480.11	\$ 960.21
209	Invert Installation, other configurations	30	SF	\$ 80.02	\$ 2,400.53
212	Uncover Buried Junction Box (8'-11.9')	1	EA	\$ 1,173.59	\$ 1,173.59
216	Flowable Fill Abandonment (Pumping included if	1	CY	\$ 1,600.35	\$ 1,600.35
217	Pressure Grouting (Pumping included if needed)	9	CY	\$ 1,920.42	\$ 17,283.78
220	18" Grout Each End to Structure	2	EA	\$ 208.05	\$ 416.09
229	60" Grout Each End to Structure	2	EA	\$ 533.45	\$ 1,066.90
232	Grout all joint, cracks & holes, in structures, comp	2	EA	\$ 853.52	\$ 1,707.04
233	Grout all joint, cracks & holes, in structures, comp	1	EA	\$ 1,653.70	\$ 1,653.70
	18" PIPE - 9.0mm (.354")	43	LF	\$ 160.04	\$ 6,881.51
	Inversion Setup Charge 15"- 36" CIPP	1	EACH	\$ 2,667.25	\$ 2,667.25
	60" Cent. Spin Cast Lining	62	LF	\$ 746.83	\$ 46,303.46
350	Concrete Drainage Structures Poured In Place w/	2	CY	\$ 2,133.80	\$ 4,267.60
365	Additional Excavation	8	CY	\$ 21.34	\$ 170.70
367	Haul-Off Soil Material	17	CY	\$ 90.69	\$ 1,541.67
380	Install & Remove Orange Tree Save Fence	50	LF	\$ 10.67	\$ 533.45
386	Sodding Complete-Fescue	56	SY	\$ 16.00	\$ 896.20
391	Pine Straw	10	EA	\$ 9.60	\$ 96.02
409	Removal of Existing Drainage Structure	1	EA	\$ 2,400.53	\$ 2,400.53
418	Bypass pumping setup-equipment and hose plac	2	EA	\$ 1,066.90	\$ 2,133.80
419	4" Pumping Operation Time	75	HR	\$ 64.01	\$ 4,801.05



**MILL GLEN**  
**5596 MILL GATE CT**



- ARPA Stormwater Lining (2)
- Parcel
- Stormwater**
- Structure
- Conveyances**
- - - DRY OPEN CHANNEL
- OTHER
- DETENTION LINE
- GRAVITY PIPE
- WET OPEN CHANNEL