

To: Mayor and City Council

From: Carl Thomas, Stormwater Utility Manager

Re: Funding Authorization for 2146 Brendon Drive Storm Repairs

Date: March 27, 2023

## <u>Action</u>

Authorize the Mayor, City Manager, or designee to approve \$156,705.60 in funding for Stormwater Pipe Repairs at 2146 Brendon Drive.

# Summary/Details

Structural deficiencies to the storm system on Brendon Drive were identified performing routine site inspections to the storm infrastructure. The pipe system is composed of +/-200 linear feet of 24 and 72-inch corrugated metal pipe (CMP) that is approximately 53 years old and in poor condition. Closed-Caption Television (CCTV) footage discovered corrosion, visible holes, water sag, deformities, and minor joint separation. Recommended repairs include:

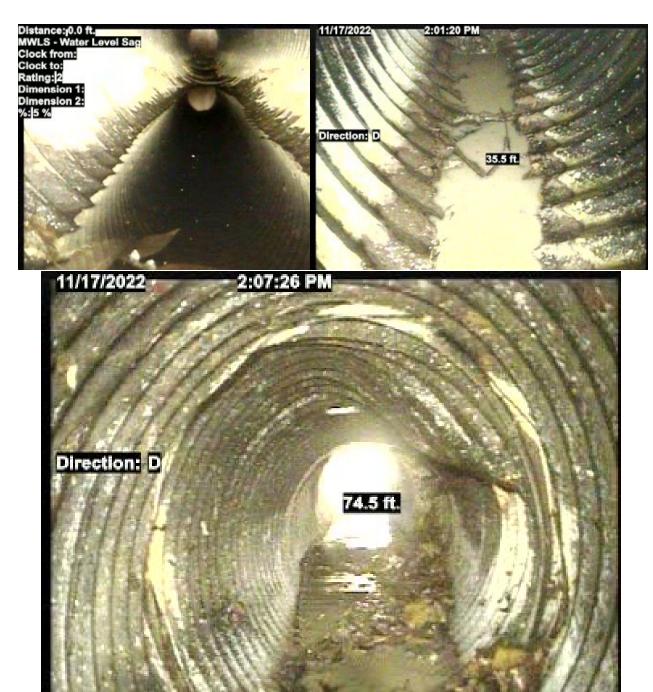
- Repair +/- 200 LF of CMP with Cured-In-Place Pipe (CIPP) liner and Spincast
- 20 LF dig and replace deformed 24-inch CMP
- 4-foot diameter pedestal top replacement
- 114 SY Bermuda Sod replacement
- 16 hours of bypass pumping of perennial stream

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

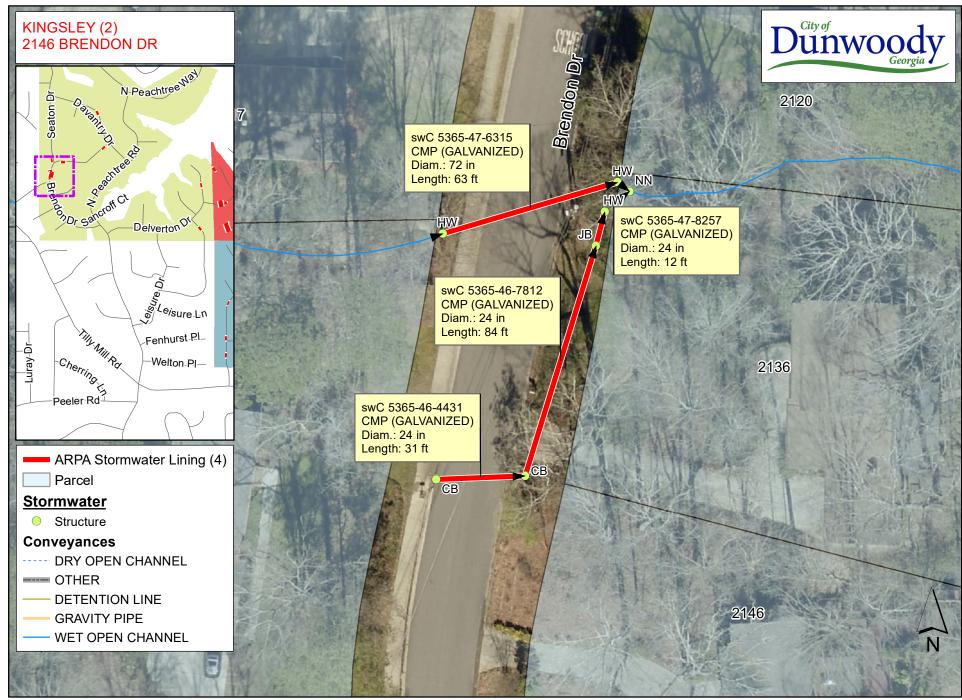
# Recommendation

Staff recommends approving \$156,705.60 in funding for Stormwater Pipe Repairs at 2146 Brendon Drive.





Water Sag, Deformities, Severe Corrosion, Visible Holes



ARPA - Stormwater Lining Projects by Subdivision

Phase 1

Date: 10/21/2022 Packet page:...

	CITY OF DUNWOODY RFP 22-03 STANDBY STORMWA	ATER REF	PAIR UNI	וי	RICE CO	NT	RACT		
	SOUTHERN PREMIER CONTRACTO	ORS, INC.	2022						
	PROJECT LOCATION:	2146 Brendon Drive							
	PREPARED BY:	M. Massey							
	DATE INVOICE PREPARED:	11.30.22							
	TOTAL INVOICE	\$					130,588.00		
	20%	\$					26,117.60		
		\$					156,705.60		
	Prep pipes for lining  Line cross drains  Grout pipes, structures, install inverts  Landscape disturbed areas								
Item#	Item	Quantity	Unit	U	nit Price		<b>Total Cost</b>		
Item#	Item  Mobilization	Quantity 1	Unit EA	<b>U</b> \$	nit Price 2,000.00	\$			
		Quantity 1 5				\$	2,000.0		
1ND	Mobilization	1	EA	\$	2,000.00		2,000.0 9,000.0		
1ND 5ND	Mobilization  Traffic Control Minor 2 – Includes Cones and Signage	1 5	EA Per Day	\$	2,000.00	\$	2,000.0 9,000.0 1,500.0		
1ND 5ND 9ND 48ND	Mobilization  Traffic Control Minor 2 – Includes Cones and Signage  Hydro-Excavation complete (onsite hours only)	1 5 4	EA Per Day Per Hour	\$ \$ \$	2,000.00 1,800.00 375.00	\$ \$	2,000.0 9,000.0 1,500.0 1,500.0		
1ND 5ND 9ND	Mobilization  Traffic Control Minor 2 – Includes Cones and Signage  Hydro-Excavation complete (onsite hours only)  24" SRCMP	1 5 4 20	EA Per Day Per Hour LF	\$ \$ \$ \$	2,000.00 1,800.00 375.00 75.00	\$ \$ \$	2,000.0 9,000.0 1,500.0 1,500.0 4,400.0		
1ND 5ND 9ND 48ND 132ND	Mobilization  Traffic Control Minor 2 – Includes Cones and Signage  Hydro-Excavation complete (onsite hours only)  24" SRCMP  24" Diameter	1 5 4 20 8	EA Per Day Per Hour LF LF	\$ \$ \$ \$	2,000.00 1,800.00 375.00 75.00 550.00	\$ \$ \$	2,000.0 9,000.0 1,500.0 1,500.0 4,400.0		
1ND 5ND 9ND 48ND 132ND	Mobilization  Traffic Control Minor 2 – Includes Cones and Signage  Hydro-Excavation complete (onsite hours only)  24" SRCMP  24" Diameter  72" Diameter	1 5 4 20 8	EA Per Day Per Hour LF LF LF	\$ \$ \$ \$ \$	2,000.00 1,800.00 375.00 75.00 550.00 400.00	\$ \$ \$ \$	2,000.0 9,000.0 1,500.0 1,500.0 4,400.0 800.0		
1ND 5ND 9ND 48ND 132ND 138ND	Mobilization  Traffic Control Minor 2 – Includes Cones and Signage  Hydro-Excavation complete (onsite hours only)  24" SRCMP  24" Diameter  72" Diameter  4' Dia. Pedestal Top with Inlet Frame and Grate	1 5 4 20 8	EA Per Day Per Hour LF LF LF LF LF	\$ \$ \$ \$ \$ \$ \$	2,000.00 1,800.00 375.00 75.00 550.00 400.00 1,600.00	\$ \$ \$ \$	2,000.0 9,000.0 1,500.0 1,500.0 4,400.0 800.0 1,600.0 2,500.0		
1ND 5ND 9ND 48ND 132ND 138ND 194ND 207ND	Mobilization  Traffic Control Minor 2 – Includes Cones and Signage  Hydro-Excavation complete (onsite hours only)  24" SRCMP  24" Diameter  72" Diameter  4' Dia. Pedestal Top with Inlet Frame and Grate  Cast-in-Place Top Only w/Ring & Cover	1 5 4 20 8 2 1	EA Per Day Per Hour LF LF LF CF CY	\$ \$ \$ \$ \$ \$ \$	2,000.00 1,800.00 375.00 75.00 550.00 400.00 1,600.00 2,500.00 450.00	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	2,000.0 9,000.0 1,500.0 1,500.0 4,400.0 800.0 1,600.0 2,500.0		
1ND 5ND 9ND 48ND 132ND 138ND 194ND 207ND	Mobilization  Traffic Control Minor 2 – Includes Cones and Signage  Hydro-Excavation complete (onsite hours only)  24" SRCMP  24" Diameter  72" Diameter  4' Dia. Pedestal Top with Inlet Frame and Grate  Cast-in-Place Top Only w/Ring & Cover  Invert Installation, 4' Diameter  Uncover Buried Junction Box (4'-7.9')  Pressure Grouting (Pumping included if needed)	1 5 4 20 8 2 1	EA Per Day Per Hour LF LF LF CY EA	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	2,000.00 1,800.00 375.00 75.00 550.00 400.00 1,600.00 2,500.00 450.00	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	Total Cost  2,000.0  9,000.0  1,500.0  1,500.0  4,400.0  800.0  1,600.0  2,500.0  1,800.0  800.0  7,200.0		
1ND 5ND 9ND 48ND 132ND 138ND 194ND 207ND	Mobilization  Traffic Control Minor 2 – Includes Cones and Signage  Hydro-Excavation complete (onsite hours only)  24" SRCMP  24" Diameter  72" Diameter  4' Dia. Pedestal Top with Inlet Frame and Grate  Cast-in-Place Top Only w/Ring & Cover  Invert Installation, 4' Diameter  Uncover Buried Junction Box (4'-7.9')  Pressure Grouting (Pumping included if needed)  24" Grout Each End to Structure	1 5 4 20 8 2 1 1 4	EA Per Day Per Hour LF LF LF CY EA EA EA	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	2,000.00 1,800.00 375.00 75.00 550.00 400.00 1,600.00 2,500.00 450.00 800.00 1,800.00 225.00	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	2,000.0 9,000.0 1,500.0 1,500.0 4,400.0 800.0 1,600.0 2,500.0 1,800.0 800.0 7,200.0 1,350.0		
1ND 5ND 9ND 48ND 132ND 138ND 194ND 207ND 209ND 214ND	Mobilization  Traffic Control Minor 2 – Includes Cones and Signage  Hydro-Excavation complete (onsite hours only)  24" SRCMP  24" Diameter  72" Diameter  4' Dia. Pedestal Top with Inlet Frame and Grate  Cast-in-Place Top Only w/Ring & Cover  Invert Installation, 4' Diameter  Uncover Buried Junction Box (4'-7.9')  Pressure Grouting (Pumping included if needed)  24" Grout Each End to Structure  Grout all joint, cracks & holes, in structures, complete (structures 8' deep or less)	1 5 4 20 8 2 1 1 4 1 4 6	EA Per Day Per Hour LF LF LF EA CY EA CY EA EA CY EA	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	2,000.00 1,800.00 375.00 75.00 550.00 400.00 1,600.00 2,500.00 450.00 800.00 1,800.00 800.00	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	2,000.0 9,000.0 1,500.0 1,500.0 4,400.0 800.0 1,600.0 2,500.0 1,800.0 7,200.0 1,350.0 3,200.0		
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1ND 5ND 9ND 48ND 132ND 138ND 194ND 207ND 209ND 214ND 224ND 234ND 240ND 270ND	Mobilization  Traffic Control Minor 2 – Includes Cones and Signage  Hydro-Excavation complete (onsite hours only)  24" SRCMP  24" Diameter  72" Diameter  4' Dia. Pedestal Top with Inlet Frame and Grate  Cast-in-Place Top Only w/Ring & Cover  Invert Installation, 4' Diameter  Uncover Buried Junction Box (4'-7.9')  Pressure Grouting (Pumping included if needed)  24" Grout Each End to Structure  Grout all joint, cracks & holes, in structures, complete (structures 8' deep or less)  24" PIPE - 11.0mm (.433")  Inversion Setup Charge 15"- 36" CIPP	1 5 4 20 8 2 1 1 4 1 4 6 4 140 2	EA Per Day Per Hour LF LF LF EA CY EA CY EA LF EA CY EA EA CY EA EA CY EA	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	2,000.00 1,800.00 375.00 75.00 550.00 400.00 1,600.00 2,500.00 450.00 800.00 1,800.00 225.00 800.00 190.00 2,500.00	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	2,000.0 9,000.0 1,500.0 1,500.0 4,400.0 800.0 1,600.0 2,500.0 1,800.0 7,200.0 1,350.0 3,200.0 26,600.0 5,000.0		
1ND 5ND 9ND 48ND 132ND 138ND 194ND 207ND 209ND 214ND 234ND 234ND 240ND 270ND 280ND	Mobilization  Traffic Control Minor 2 – Includes Cones and Signage  Hydro-Excavation complete (onsite hours only)  24" SRCMP  24" Diameter  72" Diameter  4' Dia. Pedestal Top with Inlet Frame and Grate  Cast-in-Place Top Only w/Ring & Cover  Invert Installation, 4' Diameter  Uncover Buried Junction Box (4'-7.9')  Pressure Grouting (Pumping included if needed)  24" Grout Each End to Structure  Grout all joint, cracks & holes, in structures, complete (structures 8' deep or less)  24" PIPE - 11.0mm (.433")  Inversion Setup Charge 15"- 36" CIPP  72" Cent. Spin Cast Lining	1 5 4 20 8 2 1 1 4 1 4 6 4 140 2 59	EA Per Day Per Hour LF LF LF EA CY EA CY EA LF EA CY EA LF EA LF EA LF	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	2,000.00 1,800.00 375.00 75.00 550.00 400.00 1,600.00 2,500.00 450.00 800.00 1,800.00 225.00 800.00 190.00 2,500.00 850.00	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	2,000.0 9,000.0 1,500.0 1,500.0 4,400.0 800.0 1,600.0 2,500.0 1,800.0 7,200.0 1,350.0 3,200.0 26,600.0 5,000.0		
1ND 5ND 9ND 48ND 132ND 138ND 194ND 207ND 209ND 214ND 224ND 234ND 240ND 270ND 280ND 370ND	Mobilization  Traffic Control Minor 2 – Includes Cones and Signage  Hydro-Excavation complete (onsite hours only)  24" SRCMP  24" Diameter  72" Diameter  4' Dia. Pedestal Top with Inlet Frame and Grate  Cast-in-Place Top Only w/Ring & Cover  Invert Installation, 4' Diameter  Uncover Buried Junction Box (4'-7.9')  Pressure Grouting (Pumping included if needed)  24" Grout Each End to Structure  Grout all joint, cracks & holes, in structures, complete (structures 8' deep or less)  24" PIPE - 11.0mm (.433")  Inversion Setup Charge 15"- 36" CIPP  72" Cent. Spin Cast Lining  Finish Grading	1 5 4 20 8 2 1 1 4 1 4 6 4 140 2 59	EA Per Day Per Hour LF LF LF EA CY EA CY EA LF EA CY EA LF EA CY EA SY	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	2,000.00 1,800.00 375.00 75.00 550.00 400.00 1,600.00 2,500.00 450.00 800.00 1,800.00 190.00 2,500.00 850.00 10.00	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	2,000.0 9,000.0 1,500.0 1,500.0 4,400.0 800.0 1,600.0 2,500.0 1,800.0 7,200.0 1,350.0 3,200.0 26,600.0 5,000.0 1,140.0		
1ND 5ND 9ND 48ND 132ND 138ND 194ND 207ND 209ND 214ND 224ND 234ND 234ND 270ND 280ND 370ND 372ND	Mobilization  Traffic Control Minor 2 – Includes Cones and Signage  Hydro-Excavation complete (onsite hours only)  24" SRCMP  24" Diameter  72" Diameter  4' Dia. Pedestal Top with Inlet Frame and Grate  Cast-in-Place Top Only w/Ring & Cover  Invert Installation, 4' Diameter  Uncover Buried Junction Box (4'-7.9')  Pressure Grouting (Pumping included if needed)  24" Grout Each End to Structure  Grout all joint, cracks & holes, in structures, complete (structures 8' deep or less)  24" PIPE - 11.0mm (.433")  Inversion Setup Charge 15"- 36" CIPP  72" Cent. Spin Cast Lining  Finish Grading  Debris Removal	1 5 4 20 8 2 1 1 4 1 4 6 4 140 2 59	EA Per Day Per Hour LF LF LF EA CY EA CY EA LF EA CY EA SY CY	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	2,000.00 1,800.00 375.00 75.00 550.00 400.00 1,600.00 2,500.00 450.00 800.00 1,800.00 190.00 2,500.00 850.00 10.00 75.00	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	2,000.0 9,000.0 1,500.0 1,500.0 4,400.0 800.0 1,600.0 2,500.0 1,800.0 7,200.0 1,350.0 3,200.0 26,600.0 5,000.0 1,140.0 300.0		
1ND 5ND 9ND 48ND 132ND 138ND 194ND 207ND 209ND 214ND 224ND 234ND 234ND 240ND 270ND 280ND 370ND 372ND 382ND	Mobilization  Traffic Control Minor 2 – Includes Cones and Signage  Hydro-Excavation complete (onsite hours only)  24" SRCMP  24" Diameter  72" Diameter  4' Dia. Pedestal Top with Inlet Frame and Grate  Cast-in-Place Top Only w/Ring & Cover  Invert Installation, 4' Diameter  Uncover Buried Junction Box (4'-7.9')  Pressure Grouting (Pumping included if needed)  24" Grout Each End to Structure  Grout all joint, cracks & holes, in structures, complete (structures 8' deep or less)  24" PIPE - 11.0mm (.433")  Inversion Setup Charge 15"- 36" CIPP  72" Cent. Spin Cast Lining  Finish Grading  Debris Removal  Install & Remove Orange Tree Save Fence	1 5 4 20 8 2 1 1 4 1 4 6 4 140 2 59 114 4	EA Per Day Per Hour LF LF LF EA CY EA CY EA LF EA CY EA CY EA CY EA CY EA LF CY EA LF	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	2,000.00 1,800.00 375.00 75.00 550.00 400.00 1,600.00 2,500.00 450.00 800.00 1,800.00 190.00 2,500.00 850.00 10.00 75.00 10.00	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	2,000.0 9,000.0 1,500.0 1,500.0 4,400.0 800.0 1,600.0 2,500.0 1,800.0 7,200.0 3,200.0 26,600.0 5,000.0 1,140.0 300.0 700.0		
1ND 5ND 9ND 48ND 132ND 138ND 194ND 207ND 209ND 214ND 224ND 234ND 234ND 240ND 270ND 280ND 370ND 372ND 382ND 389ND	Mobilization  Traffic Control Minor 2 – Includes Cones and Signage  Hydro-Excavation complete (onsite hours only)  24" SRCMP  24" Diameter  72" Diameter  4' Dia. Pedestal Top with Inlet Frame and Grate  Cast-in-Place Top Only w/Ring & Cover  Invert Installation, 4' Diameter  Uncover Buried Junction Box (4'-7.9')  Pressure Grouting (Pumping included if needed)  24" Grout Each End to Structure  Grout all joint, cracks & holes, in structures, complete (structures 8' deep or less)  24" PIPE - 11.0mm (.433")  Inversion Setup Charge 15"- 36" CIPP  72" Cent. Spin Cast Lining  Finish Grading  Debris Removal  Install & Remove Orange Tree Save Fence  Sodding Complete-Bermuda	1 5 4 20 8 2 1 1 4 1 4 6 4 140 2 59 114 4 70	EA Per Day Per Hour LF LF LF EA CY EA CY EA LF EA CY EA CY EA LF CY LF LF LF EACH LF SY CY LF SY	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	2,000.00 1,800.00 375.00 75.00 550.00 400.00 1,600.00 2,500.00 450.00 800.00 1,800.00 225.00 800.00 190.00 2,500.00 10.00 75.00 10.00 15.00	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	2,000.0 9,000.0 1,500.0 1,500.0 4,400.0 800.0 1,600.0 2,500.0 1,800.0 7,200.0 1,350.0 3,200.0 26,600.0 5,000.0 1,140.0 300.0 700.0		
1ND 5ND 9ND 48ND 132ND 138ND 194ND 207ND 209ND 214ND 224ND 234ND 234ND 240ND 270ND 280ND 370ND 372ND 382ND 389ND 393ND	Mobilization  Traffic Control Minor 2 – Includes Cones and Signage  Hydro-Excavation complete (onsite hours only)  24" SRCMP  24" Diameter  72" Diameter  4' Dia. Pedestal Top with Inlet Frame and Grate  Cast-in-Place Top Only w/Ring & Cover  Invert Installation, 4' Diameter  Uncover Buried Junction Box (4'-7.9')  Pressure Grouting (Pumping included if needed)  24" Grout Each End to Structure  Grout all joint, cracks & holes, in structures, complete (structures 8' deep or less)  24" PIPE - 11.0mm (.433")  Inversion Setup Charge 15"- 36" CIPP  72" Cent. Spin Cast Lining  Finish Grading  Debris Removal  Install & Remove Orange Tree Save Fence  Sodding Complete-Bermuda  Pine Straw	1 5 4 20 8 2 1 1 4 1 4 6 4 140 2 59 114 4	EA Per Day Per Hour  LF LF EA CY EA CY EA CY EA CY EA CY EA LF EACH LF SY CY LF SY EA	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	2,000.00 1,800.00 375.00 75.00 550.00 400.00 1,600.00 2,500.00 450.00 800.00 1,800.00 190.00 2,500.00 850.00 10.00 75.00 10.00 15.00 9.00	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	2,000.0 9,000.0 1,500.0 1,500.0 4,400.0 800.0 1,600.0 2,500.0 1,800.0 7,200.0 1,350.0 3,200.0 26,600.0 5,000.0 1,140.0 300.0 1,710.0 18.0		
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To: Mayor and City Council

From: Carl Thomas, Stormwater Utility Manager

Re: Funding Authorization for 2146 Brendon Drive Storm Repairs

Date: March 27, 2023

## <u>Action</u>

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# Summary/Details

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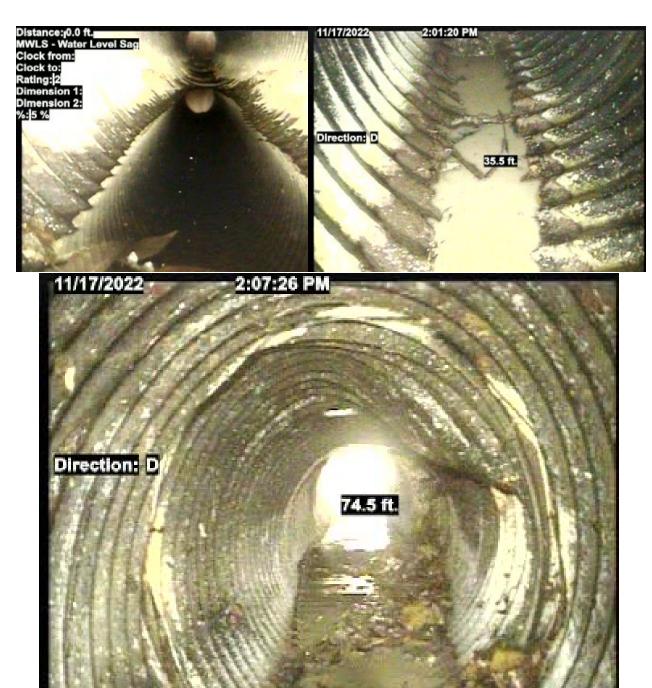
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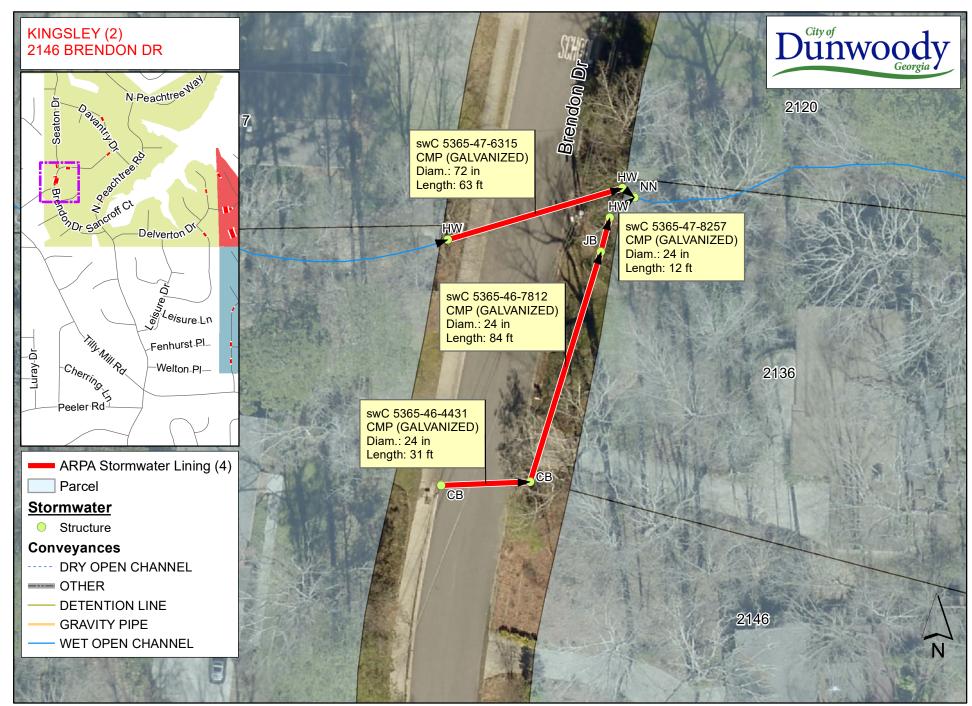
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Water Sag, Deformities, Severe Corrosion, Visible Holes



ARPA - Stormwater Lining Projects by Subdivision

Phase 1

Date: 10/21/2022 Packet page:...

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	PROJECT LOCATION:	2146 Brendon Drive							
	PREPARED BY:	M. Massey							
	DATE INVOICE PREPARED:	11.30.22							
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Item#	Item	Quantity	Unit	U	nit Price		<b>Total Cost</b>		
Item#	Item  Mobilization	Quantity 1	Unit EA	<b>U</b> \$	nit Price 2,000.00	\$			
		Quantity 1 5				\$	2,000.0		
1ND	Mobilization	1	EA	\$	2,000.00		2,000.0 9,000.0		
1ND 5ND	Mobilization  Traffic Control Minor 2 – Includes Cones and Signage	1 5	EA Per Day	\$	2,000.00	\$	2,000.0 9,000.0 1,500.0		
1ND 5ND 9ND 48ND	Mobilization  Traffic Control Minor 2 – Includes Cones and Signage  Hydro-Excavation complete (onsite hours only)	1 5 4	EA Per Day Per Hour	\$ \$ \$	2,000.00 1,800.00 375.00	\$ \$	2,000.0 9,000.0 1,500.0 1,500.0		
1ND 5ND 9ND	Mobilization  Traffic Control Minor 2 – Includes Cones and Signage  Hydro-Excavation complete (onsite hours only)  24" SRCMP	1 5 4 20	EA Per Day Per Hour LF	\$ \$ \$ \$	2,000.00 1,800.00 375.00 75.00	\$ \$ \$	2,000.0 9,000.0 1,500.0 1,500.0 4,400.0		
1ND 5ND 9ND 48ND 132ND	Mobilization  Traffic Control Minor 2 – Includes Cones and Signage  Hydro-Excavation complete (onsite hours only)  24" SRCMP  24" Diameter	1 5 4 20 8	EA Per Day Per Hour LF LF	\$ \$ \$ \$	2,000.00 1,800.00 375.00 75.00 550.00	\$ \$ \$	2,000.0 9,000.0 1,500.0 1,500.0 4,400.0		
1ND 5ND 9ND 48ND 132ND	Mobilization  Traffic Control Minor 2 – Includes Cones and Signage  Hydro-Excavation complete (onsite hours only)  24" SRCMP  24" Diameter  72" Diameter	1 5 4 20 8	EA Per Day Per Hour LF LF LF	\$ \$ \$ \$ \$	2,000.00 1,800.00 375.00 75.00 550.00 400.00	\$ \$ \$ \$	2,000.0 9,000.0 1,500.0 1,500.0 4,400.0 800.0		
1ND 5ND 9ND 48ND 132ND 138ND	Mobilization  Traffic Control Minor 2 – Includes Cones and Signage  Hydro-Excavation complete (onsite hours only)  24" SRCMP  24" Diameter  72" Diameter  4' Dia. Pedestal Top with Inlet Frame and Grate	1 5 4 20 8	EA Per Day Per Hour LF LF LF LF LF	\$ \$ \$ \$ \$ \$ \$	2,000.00 1,800.00 375.00 75.00 550.00 400.00 1,600.00	\$ \$ \$ \$	2,000.0 9,000.0 1,500.0 1,500.0 4,400.0 800.0 1,600.0 2,500.0		
1ND 5ND 9ND 48ND 132ND 138ND 194ND 207ND	Mobilization  Traffic Control Minor 2 – Includes Cones and Signage  Hydro-Excavation complete (onsite hours only)  24" SRCMP  24" Diameter  72" Diameter  4' Dia. Pedestal Top with Inlet Frame and Grate  Cast-in-Place Top Only w/Ring & Cover	1 5 4 20 8 2 1	EA Per Day Per Hour LF LF LF CF CY	\$ \$ \$ \$ \$ \$ \$	2,000.00 1,800.00 375.00 75.00 550.00 400.00 1,600.00 2,500.00 450.00	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	2,000.0 9,000.0 1,500.0 1,500.0 4,400.0 800.0 1,600.0 2,500.0		
1ND 5ND 9ND 48ND 132ND 138ND 194ND 207ND	Mobilization  Traffic Control Minor 2 – Includes Cones and Signage  Hydro-Excavation complete (onsite hours only)  24" SRCMP  24" Diameter  72" Diameter  4' Dia. Pedestal Top with Inlet Frame and Grate  Cast-in-Place Top Only w/Ring & Cover  Invert Installation, 4' Diameter  Uncover Buried Junction Box (4'-7.9')  Pressure Grouting (Pumping included if needed)	1 5 4 20 8 2 1	EA Per Day Per Hour LF LF LF CY EA	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	2,000.00 1,800.00 375.00 75.00 550.00 400.00 1,600.00 2,500.00 450.00	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	Total Cost  2,000.0  9,000.0  1,500.0  1,500.0  4,400.0  800.0  1,600.0  2,500.0  1,800.0  800.0  7,200.0		
1ND 5ND 9ND 48ND 132ND 138ND 194ND 207ND	Mobilization  Traffic Control Minor 2 – Includes Cones and Signage  Hydro-Excavation complete (onsite hours only)  24" SRCMP  24" Diameter  72" Diameter  4' Dia. Pedestal Top with Inlet Frame and Grate  Cast-in-Place Top Only w/Ring & Cover  Invert Installation, 4' Diameter  Uncover Buried Junction Box (4'-7.9')  Pressure Grouting (Pumping included if needed)  24" Grout Each End to Structure	1 5 4 20 8 2 1 1 4	EA Per Day Per Hour LF LF LF CY EA EA EA	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	2,000.00 1,800.00 375.00 75.00 550.00 400.00 1,600.00 2,500.00 450.00 800.00 1,800.00 225.00	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	2,000.0 9,000.0 1,500.0 1,500.0 4,400.0 800.0 1,600.0 2,500.0 1,800.0 800.0 7,200.0 1,350.0		
1ND 5ND 9ND 48ND 132ND 138ND 194ND 207ND 209ND 214ND	Mobilization  Traffic Control Minor 2 – Includes Cones and Signage  Hydro-Excavation complete (onsite hours only)  24" SRCMP  24" Diameter  72" Diameter  4' Dia. Pedestal Top with Inlet Frame and Grate  Cast-in-Place Top Only w/Ring & Cover  Invert Installation, 4' Diameter  Uncover Buried Junction Box (4'-7.9')  Pressure Grouting (Pumping included if needed)  24" Grout Each End to Structure  Grout all joint, cracks & holes, in structures, complete (structures 8' deep or less)	1 5 4 20 8 2 1 1 4 1 4 6	EA Per Day Per Hour LF LF LF EA CY EA CY EA EA CY EA	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	2,000.00 1,800.00 375.00 75.00 550.00 400.00 1,600.00 2,500.00 450.00 800.00 1,800.00 800.00	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	2,000.0 9,000.0 1,500.0 1,500.0 4,400.0 800.0 1,600.0 2,500.0 1,800.0 7,200.0 1,350.0 3,200.0		
1ND 5ND 9ND 48ND 132ND 138ND 194ND 207ND 209ND 214ND	Mobilization  Traffic Control Minor 2 – Includes Cones and Signage  Hydro-Excavation complete (onsite hours only)  24" SRCMP  24" Diameter  72" Diameter  4' Dia. Pedestal Top with Inlet Frame and Grate  Cast-in-Place Top Only w/Ring & Cover  Invert Installation, 4' Diameter  Uncover Buried Junction Box (4'-7.9')  Pressure Grouting (Pumping included if needed)  24" Grout Each End to Structure  Grout all joint, cracks & holes, in structures, complete (structures 8' deep or less)  24" PIPE - 11.0mm (.433")	1 5 4 20 8 2 1 1 4 1 4 6 4	EA Per Day Per Hour LF LF LF EA CY EA CY EA LCY EA LCY EA LCY EA LCY EA LCY EA LCY EA	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	2,000.00 1,800.00 375.00 75.00 550.00 400.00 1,600.00 2,500.00 450.00 800.00 1,800.00 225.00 800.00	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	2,000.0 9,000.0 1,500.0 1,500.0 4,400.0 800.0 1,600.0 2,500.0 1,800.0 7,200.0 1,350.0 3,200.0 26,600.0		
1ND 5ND 9ND 48ND 132ND 138ND 194ND 207ND 209ND 214ND 224ND 234ND 240ND 270ND	Mobilization  Traffic Control Minor 2 – Includes Cones and Signage  Hydro-Excavation complete (onsite hours only)  24" SRCMP  24" Diameter  72" Diameter  4' Dia. Pedestal Top with Inlet Frame and Grate  Cast-in-Place Top Only w/Ring & Cover  Invert Installation, 4' Diameter  Uncover Buried Junction Box (4'-7.9')  Pressure Grouting (Pumping included if needed)  24" Grout Each End to Structure  Grout all joint, cracks & holes, in structures, complete (structures 8' deep or less)  24" PIPE - 11.0mm (.433")  Inversion Setup Charge 15"- 36" CIPP	1 5 4 20 8 2 1 1 4 1 4 6 4 140 2	EA Per Day Per Hour LF LF LF EA CY EA CY EA LF EA CY EA EA CY EA EA CY EA	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	2,000.00 1,800.00 375.00 75.00 550.00 400.00 1,600.00 2,500.00 450.00 800.00 1,800.00 225.00 800.00 190.00 2,500.00	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	2,000.0 9,000.0 1,500.0 1,500.0 4,400.0 800.0 1,600.0 2,500.0 1,800.0 7,200.0 1,350.0 3,200.0 26,600.0 5,000.0		
1ND 5ND 9ND 48ND 132ND 138ND 194ND 207ND 209ND 214ND 234ND 234ND 240ND 270ND 280ND	Mobilization  Traffic Control Minor 2 – Includes Cones and Signage  Hydro-Excavation complete (onsite hours only)  24" SRCMP  24" Diameter  72" Diameter  4' Dia. Pedestal Top with Inlet Frame and Grate  Cast-in-Place Top Only w/Ring & Cover  Invert Installation, 4' Diameter  Uncover Buried Junction Box (4'-7.9')  Pressure Grouting (Pumping included if needed)  24" Grout Each End to Structure  Grout all joint, cracks & holes, in structures, complete (structures 8' deep or less)  24" PIPE - 11.0mm (.433")  Inversion Setup Charge 15"- 36" CIPP  72" Cent. Spin Cast Lining	1 5 4 20 8 2 1 1 4 1 4 6 4 140 2 59	EA Per Day Per Hour LF LF LF EA CY EA CY EA LF EA CY EA LF EA LF EA LF	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	2,000.00 1,800.00 375.00 75.00 550.00 400.00 1,600.00 2,500.00 450.00 800.00 1,800.00 225.00 800.00 190.00 2,500.00 850.00	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	2,000.0 9,000.0 1,500.0 1,500.0 4,400.0 800.0 1,600.0 2,500.0 1,800.0 7,200.0 1,350.0 3,200.0 26,600.0 5,000.0		
1ND 5ND 9ND 48ND 132ND 138ND 194ND 207ND 209ND 214ND 224ND 234ND 240ND 270ND 280ND 370ND	Mobilization  Traffic Control Minor 2 – Includes Cones and Signage  Hydro-Excavation complete (onsite hours only)  24" SRCMP  24" Diameter  72" Diameter  4' Dia. Pedestal Top with Inlet Frame and Grate  Cast-in-Place Top Only w/Ring & Cover  Invert Installation, 4' Diameter  Uncover Buried Junction Box (4'-7.9')  Pressure Grouting (Pumping included if needed)  24" Grout Each End to Structure  Grout all joint, cracks & holes, in structures, complete (structures 8' deep or less)  24" PIPE - 11.0mm (.433")  Inversion Setup Charge 15"- 36" CIPP  72" Cent. Spin Cast Lining  Finish Grading	1 5 4 20 8 2 1 1 4 1 4 6 4 140 2 59	EA Per Day Per Hour LF LF LF EA CY EA CY EA LF EA CY EA LF EA CY EA SY	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	2,000.00 1,800.00 375.00 75.00 550.00 400.00 1,600.00 2,500.00 450.00 800.00 1,800.00 190.00 2,500.00 850.00 10.00	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	2,000.0 9,000.0 1,500.0 1,500.0 4,400.0 800.0 1,600.0 2,500.0 1,800.0 7,200.0 1,350.0 3,200.0 26,600.0 5,000.0 1,140.0		
1ND 5ND 9ND 48ND 132ND 138ND 194ND 207ND 209ND 214ND 224ND 234ND 234ND 270ND 280ND 370ND 372ND	Mobilization  Traffic Control Minor 2 – Includes Cones and Signage  Hydro-Excavation complete (onsite hours only)  24" SRCMP  24" Diameter  72" Diameter  4' Dia. Pedestal Top with Inlet Frame and Grate  Cast-in-Place Top Only w/Ring & Cover  Invert Installation, 4' Diameter  Uncover Buried Junction Box (4'-7.9')  Pressure Grouting (Pumping included if needed)  24" Grout Each End to Structure  Grout all joint, cracks & holes, in structures, complete (structures 8' deep or less)  24" PIPE - 11.0mm (.433")  Inversion Setup Charge 15"- 36" CIPP  72" Cent. Spin Cast Lining  Finish Grading  Debris Removal	1 5 4 20 8 2 1 1 4 1 4 6 4 140 2 59	EA Per Day Per Hour LF LF LF EA CY EA CY EA LF EA CY EA SY CY	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	2,000.00 1,800.00 375.00 75.00 550.00 400.00 1,600.00 2,500.00 450.00 800.00 1,800.00 190.00 2,500.00 850.00 10.00 75.00	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	2,000.0 9,000.0 1,500.0 1,500.0 4,400.0 800.0 1,600.0 2,500.0 1,800.0 7,200.0 1,350.0 3,200.0 26,600.0 5,000.0 1,140.0 300.0		
1ND 5ND 9ND 48ND 132ND 138ND 194ND 207ND 209ND 214ND 224ND 234ND 234ND 240ND 270ND 280ND 370ND 372ND 382ND	Mobilization  Traffic Control Minor 2 – Includes Cones and Signage  Hydro-Excavation complete (onsite hours only)  24" SRCMP  24" Diameter  72" Diameter  4' Dia. Pedestal Top with Inlet Frame and Grate  Cast-in-Place Top Only w/Ring & Cover  Invert Installation, 4' Diameter  Uncover Buried Junction Box (4'-7.9')  Pressure Grouting (Pumping included if needed)  24" Grout Each End to Structure  Grout all joint, cracks & holes, in structures, complete (structures 8' deep or less)  24" PIPE - 11.0mm (.433")  Inversion Setup Charge 15"- 36" CIPP  72" Cent. Spin Cast Lining  Finish Grading  Debris Removal  Install & Remove Orange Tree Save Fence	1 5 4 20 8 2 1 1 4 1 4 6 4 140 2 59 114 4	EA Per Day Per Hour LF LF LF EA CY EA CY EA LF EA CY EA CY EA CY EA CY EA LF CY EA LF	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	2,000.00 1,800.00 375.00 75.00 550.00 400.00 1,600.00 2,500.00 450.00 800.00 1,800.00 190.00 2,500.00 850.00 10.00 75.00 10.00	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	2,000.0 9,000.0 1,500.0 1,500.0 4,400.0 800.0 1,600.0 2,500.0 1,800.0 7,200.0 3,200.0 26,600.0 5,000.0 1,140.0 300.0 700.0		
1ND 5ND 9ND 48ND 132ND 138ND 194ND 207ND 209ND 214ND 224ND 234ND 234ND 240ND 270ND 280ND 370ND 372ND 382ND 389ND	Mobilization  Traffic Control Minor 2 – Includes Cones and Signage  Hydro-Excavation complete (onsite hours only)  24" SRCMP  24" Diameter  72" Diameter  4' Dia. Pedestal Top with Inlet Frame and Grate  Cast-in-Place Top Only w/Ring & Cover  Invert Installation, 4' Diameter  Uncover Buried Junction Box (4'-7.9')  Pressure Grouting (Pumping included if needed)  24" Grout Each End to Structure  Grout all joint, cracks & holes, in structures, complete (structures 8' deep or less)  24" PIPE - 11.0mm (.433")  Inversion Setup Charge 15"- 36" CIPP  72" Cent. Spin Cast Lining  Finish Grading  Debris Removal  Install & Remove Orange Tree Save Fence  Sodding Complete-Bermuda	1 5 4 20 8 2 1 1 4 1 4 6 4 140 2 59 114 4 70	EA Per Day Per Hour LF LF LF EA CY EA CY EA LF EA CY EA CY EA LF CY LF LF LF EACH LF SY CY LF SY	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	2,000.00 1,800.00 375.00 75.00 550.00 400.00 1,600.00 2,500.00 450.00 800.00 1,800.00 225.00 800.00 190.00 2,500.00 10.00 75.00 10.00 15.00	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	2,000.0 9,000.0 1,500.0 1,500.0 4,400.0 800.0 1,600.0 2,500.0 1,800.0 7,200.0 1,350.0 3,200.0 26,600.0 5,000.0 1,140.0 300.0 700.0		
1ND 5ND 9ND 48ND 132ND 138ND 194ND 207ND 209ND 214ND 224ND 234ND 234ND 240ND 270ND 280ND 370ND 372ND 382ND 389ND 393ND	Mobilization  Traffic Control Minor 2 – Includes Cones and Signage  Hydro-Excavation complete (onsite hours only)  24" SRCMP  24" Diameter  72" Diameter  4' Dia. Pedestal Top with Inlet Frame and Grate  Cast-in-Place Top Only w/Ring & Cover  Invert Installation, 4' Diameter  Uncover Buried Junction Box (4'-7.9')  Pressure Grouting (Pumping included if needed)  24" Grout Each End to Structure  Grout all joint, cracks & holes, in structures, complete (structures 8' deep or less)  24" PIPE - 11.0mm (.433")  Inversion Setup Charge 15"- 36" CIPP  72" Cent. Spin Cast Lining  Finish Grading  Debris Removal  Install & Remove Orange Tree Save Fence  Sodding Complete-Bermuda  Pine Straw	1 5 4 20 8 2 1 1 4 1 4 6 4 140 2 59 114 4	EA Per Day Per Hour  LF LF EA CY EA CY EA CY EA CY EA CY EA LF EACH LF SY CY LF SY EA	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	2,000.00 1,800.00 375.00 75.00 550.00 400.00 1,600.00 2,500.00 450.00 800.00 1,800.00 190.00 2,500.00 850.00 10.00 75.00 10.00 15.00 9.00	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	2,000.0 9,000.0 1,500.0 1,500.0 4,400.0 800.0 1,600.0 2,500.0 1,800.0 7,200.0 1,350.0 3,200.0 26,600.0 5,000.0 1,140.0 300.0 1,710.0 18.0		
1ND 5ND 9ND 48ND 132ND 138ND 194ND 207ND 209ND 214ND 224ND 234ND 240ND 270ND 280ND 372ND 372ND 382ND 389ND 393ND 409ND	Mobilization  Traffic Control Minor 2 – Includes Cones and Signage  Hydro-Excavation complete (onsite hours only)  24" SRCMP  24" Diameter  72" Diameter  4' Dia. Pedestal Top with Inlet Frame and Grate  Cast-in-Place Top Only w/Ring & Cover  Invert Installation, 4' Diameter  Uncover Buried Junction Box (4'-7.9')  Pressure Grouting (Pumping included if needed)  24" Grout Each End to Structure  Grout all joint, cracks & holes, in structures, complete (structures 8' deep or less)  24" PIPE - 11.0mm (.433")  Inversion Setup Charge 15"- 36" CIPP  72" Cent. Spin Cast Lining  Finish Grading  Debris Removal  Install & Remove Orange Tree Save Fence  Sodding Complete-Bermuda  Pine Straw  Removal of Existing Drainage Structure	1 5 4 20 8 2 1 1 4 1 4 6 4 140 2 59 114 4 70 114	EA Per Day Per Hour  LF LF EA CY EA CY EA CY EA CY EA CY EA LF EACH LF SY CY LF SY CY	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	2,000.00 1,800.00 375.00 75.00 550.00 400.00 1,600.00 2,500.00 450.00 800.00 1,800.00 190.00 2,500.00 850.00 10.00 75.00 10.00 15.00 9.00 2,250.00	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	2,000.0 9,000.0 1,500.0 1,500.0 4,400.0 800.0 1,600.0 2,500.0 1,800.0 7,200.0 1,350.0 3,200.0 26,600.0 5,000.0 1,140.0 300.0 1,710.0 18.0 2,250.0		
1ND 5ND 9ND 48ND 132ND 138ND 194ND 207ND 209ND 214ND 224ND 234ND 234ND 240ND 270ND 280ND 370ND 372ND 382ND 389ND 393ND	Mobilization  Traffic Control Minor 2 – Includes Cones and Signage  Hydro-Excavation complete (onsite hours only)  24" SRCMP  24" Diameter  72" Diameter  4' Dia. Pedestal Top with Inlet Frame and Grate  Cast-in-Place Top Only w/Ring & Cover  Invert Installation, 4' Diameter  Uncover Buried Junction Box (4'-7.9')  Pressure Grouting (Pumping included if needed)  24" Grout Each End to Structure  Grout all joint, cracks & holes, in structures, complete (structures 8' deep or less)  24" PIPE - 11.0mm (.433")  Inversion Setup Charge 15"- 36" CIPP  72" Cent. Spin Cast Lining  Finish Grading  Debris Removal  Install & Remove Orange Tree Save Fence  Sodding Complete-Bermuda  Pine Straw	1 5 4 20 8 2 1 1 4 1 4 6 4 140 2 59 114 4 70	EA Per Day Per Hour  LF LF EA CY EA CY EA CY EA CY EA CY EA LF EACH LF SY CY LF SY EA	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	2,000.00 1,800.00 375.00 75.00 550.00 400.00 1,600.00 2,500.00 450.00 800.00 1,800.00 190.00 2,500.00 850.00 10.00 75.00 10.00 15.00 9.00	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	2,000.0 9,000.0 1,500.0 1,500.0 4,400.0 800.0 1,600.0 2,500.0 1,800.0 7,200.0 1,350.0 3,200.0 26,600.0 5,000.0 1,140.0 300.0 1,710.0 18.0		