

41 Perimeter Center East, Suite 250 Dunwoody, Georgia 30346 P (678) 382-6700 F (678) 382-6701 dunwoodyga.gov

MEMORANDUM

To: Mayor and City Council

From: David Elliott

Date: July 10, 2017

Subject: 2542 Bentbrook Drive funding approval for Stormwater

Repairs.

ITEM DESCRIPTION

Approval of Funding for Stormwater Pipe Repairs at 2542 Bentbrook Drive. Estimate for the stormwater repairs is \$220,682.28 which includes a 10% contingency.

BACKGROUND

Unit Four of the Wildwood Subdivision was constructed in the early 1970s. At this time, Bentbrook Drive was built with a drainage alignment that flows northeast through two stone flumes. These flumes were constructed on a steep slope (approximately 2.5:1) and the water flowing from Bentbrook Drive and through these flumes has been the source of several complaints from a resident on the adjoining property. The resident has reported damages to their home from these flumes. Staff observations and a completed hydrology study does not support that stormwater damages were caused by drainage from Bentbrook Drive or the City's drainage infrastructure. However, staff does agree that this drainage system was not properly constructed in the 1970s and that the construction of an alternate alignment is warranted.

The new alignment will divert stormflows to an existing system located 260' to the southwest. A hydrology study has been completed, and the realignment will involve a 4% increase in the flows to the existing system and outfall. This additional flow will be managed by the existing infrastructure and downstream channel.

The primary aspects of this project include the following:

- 1. Installing 259' of new 15" reinforced concrete pipe
- 2. Installing 85' of new 18" reinforced concrete pipe
- 3. Installation of 2 new catch basins



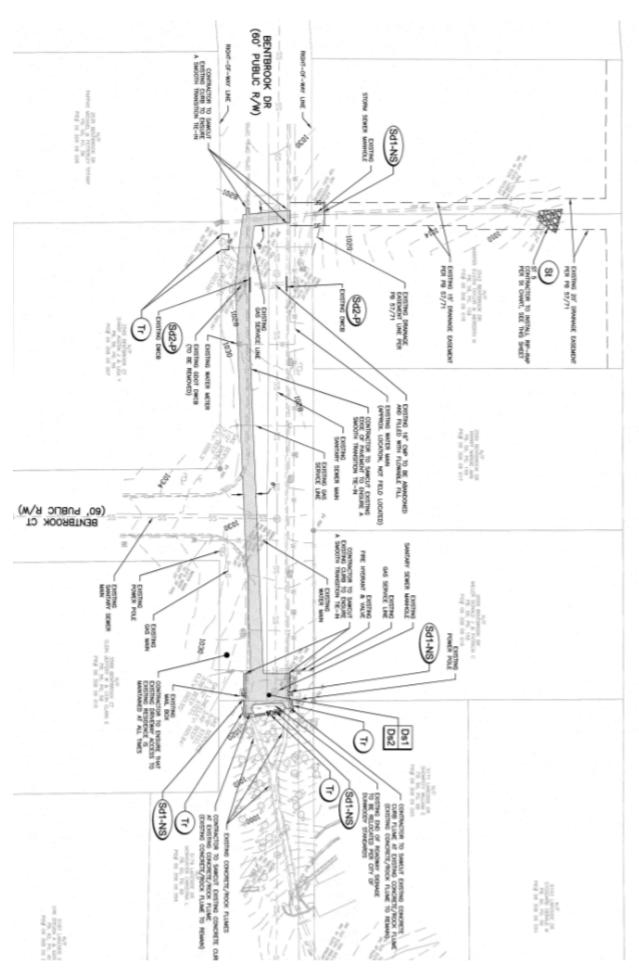
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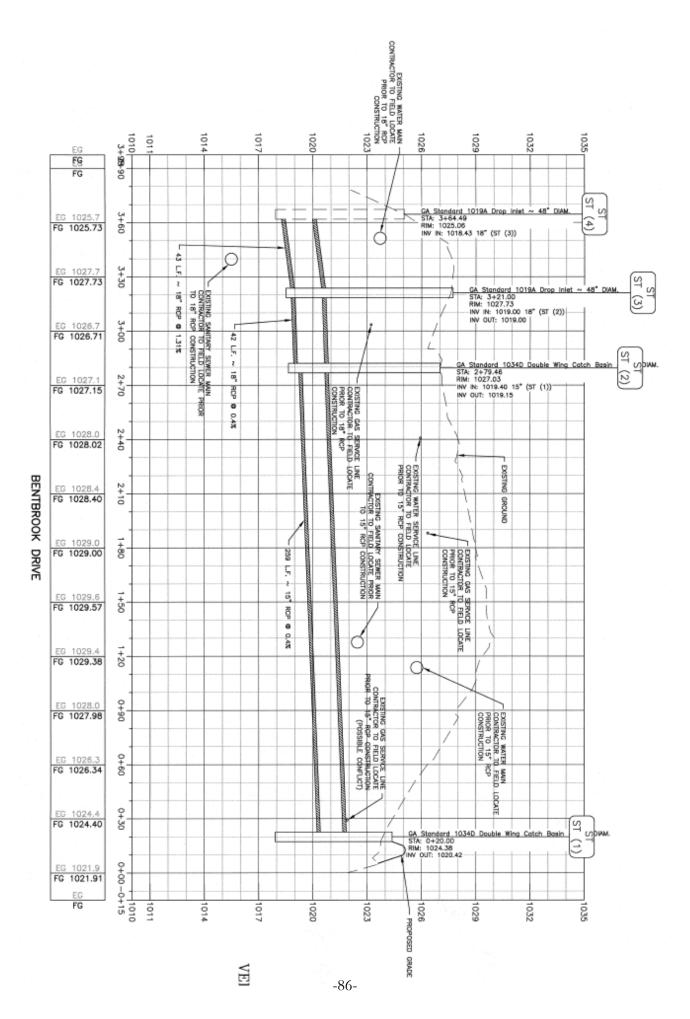
- 4. Abandoning 33' of 18" corrugated metal pipe
- 5. Rehabilitating 55' of 18" corrugated metal pipe with cured in place pipe
- 6. Rehabilitating 62' of 21" corrugated metal pipe with cured in place pipe
- 7. Rehabilitating 125' of 24" corrugated metal pipe with cured in place pipe
- 8. Filling all roadway trenches required for pipe installation with Graded Aggregate base
- 9. Curbing and Asphalt replacement required by project
- 10. Grassing and landscape repairs.

This project will be funded with the 2017 Stormwater Maintenance Budget.

RECOMMENDED ACTION

Staff recommends approving \$220,682.28 in funding for Stormwater Culvert Repairs at 2542 Bentbrook Drive.







Flume leading from Bentbrook Drive to be abandoned

Estimate Template for CITY OF DUNWOODY 2017								
SOUTHERN PREMIER CONTRACTORS, INC.								
Project Location:	2542 Bentbrook Drive, Dunwoody							
Prepared By:	Michael Massey							
Date Estimate Prepared:	05/11/2017							
Total Estimate	\$ 200,620.25							
10% Contingency	\$ 20,062.03							
Grand Total of Estimate	\$ 220,682.28							

SCOPE OF WORK:

PRE:

Cleaning of Pipes for Lining

Internal Point Repairs as Needed

Install New 15" RCP

Install New 18" RCP

Install New CB's 1033/1034

Install New Drop Inlet

Install Rip Rap @ HW

Flowable Fill (abandon pipe 18"-33lf)

Relocate Existing Mailboxes

LINING:

CIPP Lining Existing Pipes @ 18"-55lf, 21"-62lf, 24"-125lf

POST:

Landscape Disturbed Areas Install Inverts

Grout CIPP Ends to Structure

Grout All Joint/Cracks & Holes in All Structures

Asphalt Repair/Replacement

Item#	Item	Quantity	Unit	Unit Price		Т	otal Cost
	General Conditions						
1D	Mobilization	1	EA	\$	1,500.00	\$	1,500.00
2D	Out of Scope Work, Foreman	40	HR	\$	55.00	\$	2,200.00
3D	Out of Scope Work, Laborer	80	HR	\$	45.00	\$	3,600.00
	Traffic Control						
4D	Traffic Control Major (Detours etc. for road closure complete)		Per Day	\$	1,500.00	\$	5
5D	Traffic Control Minor (Two flagman etc.)	3	Per Day	\$	1,000.00	\$	3,000.00
6D	Mobile Electronic Detour Signs	3	Per Day	\$	125.00	\$	375.00
	TV Inspection and Jet-Vac Cleaning						
7D	TV Storm Lines (includes DVD & Report)		LF	\$	2.00	\$	=
8D	Visual Inspection (Pictures), per Project (During Construction)		EA	\$	150.00	\$	
9D	Hydro-Excavation (Complete)	4	Per Hour	\$	349.00	\$	1,396.00
	Storm Line Cleaning (less than 25% full)						
10D	12" PIPE - Cleaning less than 25% full		LF	\$	4.00	\$	=
11D	15" PIPE - Cleaning less than 25% full		LF	\$	4.25	\$	
12D	18" PIPE - Cleaning less than 25% full	55	LF	\$	4.50	\$	247.50
13D	21" PIPE - Cleaning less than 25% full	62	LF	\$	4.75	\$	294.50
14D	24" PIPE - Cleaning less than 25% full	125	LF	\$	5.00	\$	625.00
15D	30" PIPE - Cleaning less than 25% full	INDIANUS COLORO CONCENSIONA COLA COLA COLA COLA COLA COLA COLA COL	LF	\$	5.75	\$	
16D	36" PIPE - Cleaning less than 25% full		LF	\$	6.50	\$	2
17D	42" PIPE - Cleaning less than 25% full		LF	\$	7.00	\$	

100	400 DIDE (1997) 1994 1994 2507 C 11	I ID	Ιo	7.50	Φ	
18D	48" PIPE - Cleaning less than 25% full	LF	\$	7.50		
19D 20D	54" PIPE - Cleaning less than 25% full 60" PIPE - Cleaning less than 25% full	LF	\$	8.50	\$	- 5
20D 21D	THE CONTROL OF THE CO	LF LF	\$ \$	10.50 12.00	\$	2
Pacietor ever	66" PIPE - Cleaning less than 25% full 72" PIPE - Cleaning less than 25% full	LF LF	\$	U.S. 4. 4. 4. 4. 4. 4. 4. 4. 4. 4. 4. 4. 4.		-
22D 23D	78" PIPE - Cleaning less than 25% full 78" PIPE - Cleaning less than 25% full	LF LF	\$	15.50 16.25	\$	
23D 24D	84" PIPE - Cleaning less than 25% full	LF	\$	18.50		
24D 25D	90" PIPE - Cleaning less than 25% full	LF LF	\$	19.50	\$	2
25D 26D	96" PIPE - Cleaning less than 25% full	LF	\$	21.50	\$	-
2017	Storm Line Cleaning (25% full or greater)	LF	Ф	21.30	Ф	-
27D	12" PIPE - Cleaning 25% full or greater	LF	\$	4.25	\$	2
28D	15" PIPE - Cleaning 25% full or greater	LF	\$	4.50	\$	-
29D	18" PIPE - Cleaning 25% full or greater	LF	\$	4.75	\$	
30D	21" PIPE - Cleaning 25% full or greater	LF	\$	5.00	\$	
31D	24" PIPE - Cleaning 25% full or greater	LF	\$	5.25	\$	
32D	30" PIPE - Cleaning 25% full or greater	LF	\$	6.50	\$	2
33D	36" PIPE - Cleaning 25% full or greater	LF	\$	9.50	\$	-
34D	42" PIPE - Cleaning 25% full or greater	LF	\$	11.50	\$	
35D	48" PIPE - Cleaning 25% full or greater	LF	\$	12.50	\$	2
36D	54" PIPE - Cleaning 25% full or greater	LF	\$	15.50	\$	4
37D	60" PIPE - Cleaning 25% full or greater	LF	\$	18.50	\$	-
38D	66" PIPE - Cleaning 25% full or greater	LF	\$	20.50	\$	
39D	72" PIPE - Cleaning 25% full or greater	LF	\$	20.50	\$	2
40D	78" PIPE - Cleaning 25% full or greater	LF	\$	22.50	\$	a a
41D	84" PIPE - Cleaning 25% full or greater	LF	\$	29.50	\$	=
42D	90" PIPE - Cleaning 25% full or greater	LF	\$	29.50	\$	-
43D	96" PIPE - Cleaning 25% full or greater	LF	\$	29.50	\$	2
	Specialty Storm Line Cleaning,					
	Applicable to heavy roots, Large diameter rocks, large debris, etc.					
44D	12" to 36" PIPE	LF	\$	15.00	\$	
45D	42" to 96" PIPE	LF	\$	30.00	_	=
	Spiral Rib Corr. Steel Pipe (14 ga. Tp. 2 Alum)					
	Includes excavation, backfill, & compaction					
46D	Includes excavation, backfill, & compaction 15" SRCMP	LF	\$	26.41	\$	unosuosansansansansansansansansansansansansans
46D 47D		LF LF	\$ \$	26.41 28.58	\$	E. 21
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72D	42" HDPE	LF	\$	53.35		-
73D	48" HDPE	LF	\$	63.14	\$	5
74D	54" HDPE	LF	\$	-	•	
75D	60" HDPE	LF	\$	110.00	\$	=
76D	72" HDPE	LF	\$	-		
	Additional Depth for Pipes					
	Includes excavation, backfill, & compaction	7.73		70.00		
77D	Invert >8.1' to 12'	LF	\$	50.00		
78D	Invert >12'	LF	\$	90.00	6	
	Metal Flared End Sections: (GADOT STD 1120)					
79D	18" MFES 16 Gauge In Place	EA	\$	182.10		- 4
80D	2/1" MFES 1/1 Gauge In Place	EA	\$	290.05	100000	=
81D	30" MFES 14 Gauge In Place	EA	\$	392.73	\$	=
82D	36" MFES 14 Gauge In Place	EA	\$	596.35		5
83D	42" MFES 14 Gauge In Place	EA	\$	1,123.07	\$	-
	Metal Safety End Sections: 4:1 Slope GADOT Special Detail					
84D	18" SFES 16 Gauge In Place	EA	\$	421.19		=
85D	24" SFES 16 Gauge In Place	EA	\$	549.59	\$	5
86D	30" SFES 12 Gauge In Place	EA	\$	733.15		2
87D	36" SFES 12 Gauge In Place	EA	\$	1,317.96		=
88D	42" SFES 12 Gauge In Place	EA	\$	1,680.78		-
89D	48" SFES 12 Gauge In Place	EA	\$	2,053.27	\$	
	Precast Concrete Flared End Section			and the second second		
90D	18" CFES In Place	EA	\$	445.00	\$	=
91D	24" CFES In Place	EA	\$	525.00		=
92D	30" CFES In Place	EA	\$	590.00	\$	
93D	36" CFES In Place	EA	\$	1,150.00	\$	2
94D	42" CFES In Place	EA	\$	1,450.00	\$	=
	Precast Headwalls					
95D	Precast Headwall for 18" Pipe	EA	\$	475.00	\$	
96D	Precast Headwall for 24" Pipe	EA	\$	525.00	\$	2
97D	Precast Headwall for 30" Pipe	EA	\$	825.00	\$	=
98D	Precast Headwall for 36" Pipe	EA	\$	1,125.00	\$	=
99D	Precast Headwall for 42" Pipe	EA	\$	1,314.00	\$	
100D	Precast Headwall for 48" Pipe	EA	\$	1,404.00	\$	=
101D	Precast Headwall for 18" Pipe w/ Velocity Dissipater	EA	\$	523.00	\$	=
102D	Precast Headwall for 24" Pipe w/ Velocity Dissipater	EA	\$	571.00	\$	5
103D	Precast Headwall for 30" Pipe w/ Velocity Dissipater	EA	\$	908.00	\$	9
104D	Precast Headwall for 36" Pipe w/ Velocity Dissipater	EA	\$	1,205.00	\$	=
105D	Precast Headwall for 42" Pipe w/ Velocity Dilatator	EA	\$	1,394.00	\$	€.
106D	Precast Headwall for 48" Pipe w/ Velocity Dissipater	EA	\$	1,484.00	\$	
	Cast-in-Place Concrete Headwall					
107D	Cast-in-Place Concrete Headwall- DeKalb Std. Detail	CY	\$	695.00	\$	=
108D	Cast-in-Place Concrete Headwall- GDOT Std. Det 1125	CY	\$	695.00	\$	
	Brick-in-Place Headwall					
109D	Brick Headwall for 18" Pipe	EA	\$	525.00	\$	ä
110D	Brick Headwall for 24" Pipe	EA	\$	725.00		2
111D	Brick Headwall for 30" Pipe	EA	\$	925.00	\$	=
112D	Brick Headwall for 36" Pipe	EA	\$	1,300.00	\$	
113D	Brick Headwall for 42" Pipe	EA	\$	1,500.00	\$	-
114D	Brick Headwall for 48" Pipe	EA	\$	1,900.00	\$	2
115D	Brick Headwall for 54" Pipe	EA	\$	2,400.00	\$	
116D	Brick Headwall for 60" Pipe	EA	\$	3,350.00	\$	-
117D	Brick Headwall for 72" Pipe	EA	\$	4,500.00		2
	Rubble Masonry Headwalls (per DeKalb Co. or Gwinnett Co, Standards)					
118D	Rubble Headwall for 18" Pipe	EA	\$	1,500.00	\$	-
119D	Rubble Headwall for 24" Pipe	EA	\$	1,700.00		-
120D	Rubble Headwall for 30" Pipe	EA	\$	1,800.00		
121D	Rubble Headwall for 36" Pipe	EA	\$	2,400.00	_	2
	Flowable Paved Pipe Invert	,	-	=,.55.55		
122D	18" Diameter	LF	\$	25.00	\$	-
123D	24" Diameter	LF	\$	30.00		
124D	30" Diameter	LF	\$	35.00		
100	D. V. ACAMMATUTA	101	ıΨ	55.00	Ψ	

125D	36" Diameter		LF	\$	40.00	\$	•
126D	42" Diameter		LF	\$	45.00	\$	5
127D	48" Diameter		LF	\$	55.00	\$	2
128D	60" Diameter		LF	\$	70.00	\$	=
129D	72" Diameter		LF	\$	85.00	\$	=
130D	96" Diameter		LF	\$	95.00	\$	5
130DD	Flowable Fill	33	LF	\$	99.75	\$	3,291.75
	Internal Pipe Point Repairs (Including cutting, trimming, jacking, etc.)						
131D	18" Diameter	5	LF	\$	350.00	\$	1,750.00
132D	24" Diameter	7	LF	\$	250.00	\$	1,750.00
133D	30" Diameter		LF	\$	199.00	\$	E
134D	36" Diameter		LF	\$	150.00	\$	=
135D	42" Diameter		LF	\$	150.00	\$	
136D	48" Diameter		LF	\$	150.00	\$	5
137D	60" Diameter		LF	\$	150.00	\$	2
138D	72" Diameter		LF	\$	150.00	\$	=
139D	96" Diameter		LF	\$	150.00	\$	=
	Storm Drain Catch Basins						
	New Std. Catch Basins shall be GDOT 1033/1034 or DeKalb Studs.						
140D	4'-Dia. Brick Catch Basin GADOT 1033/1034		VF	\$	649.00	\$	-
141D	5'-Dia. Brick Catch Basin GADOT 1033/1034	† †	VF	\$	749.00	\$	-
142D	6'-Dia. Brick Catch Basin GADOT 1033/1034		VF	\$	849.00	\$	-
1720	o Bia. Blick catch Bashi Grabo i 1035/1054		7.1	Ψ	042.00	θ	1.9
143D	4'-Dia. Precast Catch Basin GADOT 1033/1034	12	VF	\$	399.00	\$	4,788.00
144D	5'-Dia. Precast Catch Basin GADOT 1033/1034	12	VF	\$	375.00	\$	4,700.00
145D	6'-Dia. Precast Catch Basin GADOT 1033/1034	wi waxaawaawaawaawaawaa	VF	\$	599.00	\$	=
143D	Storm Drain Inlets & Manholes		VΓ	D	399.00	Ф	3.6
	New Std. Inlet shall be GDOT 1019/1011 or DeKalb Stds.						
1.4CD	Brick Square Inlets		ME	0	550.00	Ф	norano a manda
146D	4' Square Brick Inlet w/ Flush Grate Only		VF VF	\$	550.00	\$	5
147D	5' Square Brick Inlet w/ Flush Grate Only	+	31/10/11	100.00	650.00	\$	-
148D	6' Square Brick Inlet w/ Flush Grate Only		VF	\$	750.00	\$	-
4.107	Ing		7.44			•	
149D	4' Square Brick Inlet w/ Curb Hood & Grate	-	VF	\$	550.00	\$	
150D	5' Square Brick Inlet w/ Curb Hood & Grate		VF	\$	650.00	\$	3
151D	6' Square Brick Inlet w/ Curb Hood & Grate		VF	\$	750.00	\$	~
152D	4' Square Brick Inlet w/ Pedestal Top & Grate		VF	\$	550.00	\$	
153D	5' Square Brick Inlet w/ Pedestal Top & Grate		VF	\$	650.00	\$	=
154D	6' Square Brick Inlet w/ Pedestal Top & Grate		VF	\$	750.00	\$	=
	Brick Round Inlets						
155D	4' Round Brick Inlet w/ Flush Grate Only		VF	\$	450.00	\$	
156D	5' Round Brick Inlet w/ Flush Grate Only		VF	\$	550.00	\$	2
157D	6' Round Brick Inlet w/ Flush Grate Only		VF	\$	650.00	\$	=
158D	4' Round Brick Inlet w/ Curb Hood & Grate	1	VF	\$	460.00	\$	-
159D	5' Round Brick Inlet w/ Curb Hood & Grate		VF	\$	560.00	\$	=
160D	6' Round Brick Inlet w/ Curb Hood & Grate		VF	\$	660.00	\$	<u> </u>
161D	4' Round Brick Inlet w/ Pedestal Top & Grate or MH Ring & Cover		VF	\$	450.00	\$	-
162D	5' Round Brick Inlet w/ Pedestal Top & Grate or MH Ring & Cover		VF	\$	550.00	\$	-
163D	6' Round Brick Inlet w/ Pedestal Top & Grate or MH Ring & Cover		VF	\$	650.00	\$	2
	Precast Square Inlets					-	
164D	4' Square Precast Inlet w/ Flush Grate Only		VF	\$	475.00	\$	-
165D	5' Square Precast Inlet w/ Flush Grate Only		VF	\$	525.00	\$	2
166D	6' Square Precast Inlet w/ Flush Grate Only	+ +	VF	\$	600.00	\$	2
1000	Square 1100 me filler me 11 min Orace Only		4.1	Ψ	500.00	ψ	-
167D	4' Square Precast Inlet w/ Curb Hood & Grate		VF	\$	475.00	\$	
168D		+ +	VF VF	\$			
	5' Square Precast Inlet w/ Curb Hood & Grate	+ +			525.00	\$	3
169D	6' Square Precast Inlet w/ Curb Hood & Grate		VF	\$	600.00	\$	2
1700	u a composition (policiam and composition)		3 773	Φ.	155.00	Ф	
170D	4' Square Precast Inlet w/ Pedestal Top & Grate	+ +	VF	\$	475.00	\$	-
171D	5' Square Precast Inlet w/ Pedestal Top & Grate	1	VF	\$		\$	
172D	6' Square Precast Inlet w/ Pedestal Top & Grate	1 1	VF	\$	600.00	\$	₩

Precast Round Inlets VF \$ 325.0) S) S) S) S) S) S) S) S	- - 2,925.00 - - - - - -
174D 5' Round Precast Inlet w/ Flush Grate Only VF \$ 400.0 175D 6' Round Precast Inlet w/ Flush Grate Only VF \$ 475.0 176D 4' Round Precast Inlet w/ Curb Hood & Grate VF \$ 400.0 177D 5' Round Precast Inlet w/ Curb Hood & Grate VF \$ 400.0 178D 6' Round Precast Inlet w/ Curb Hood & Grate VF \$ 475.0 179D 4' Round Precast Inlet w/ Pedestal Top & Grate or MH Ring & Cover VF \$ 325.0 180D 5' Round Precast Inlet w/ Pedestal Top & Grate or MH Ring & Cover VF \$ 400.0 181D 6' Round Precast Inlet w/ Pedestal Top & Grate or MH Ring & Cover VF \$ 400.0 182D 4' Square Brick Manhole w/ Manhole Ring & Cover VF \$ 450.0 183D 5' Square Brick Manhole w/ Manhole Ring & Cover VF \$ 550.0 184D 6' Square Brick Manhole w/ Manhole Ring & Cover VF \$ 550.0 185D 4' Round Brick Manhole w/ Manhole Ring & Cover VF \$ 550.0 186D 5' Round Brick Manhole w/ Manhole Ring & Cover VF \$ 550.0 187D 6' Round Brick Manhole w/ Manhole Ring & Cover VF \$ 550.0 188D 4' Square Precast Manhole w/ Manhole Ring & Cover VF \$ 550.0 188D 4' Square Precast Manhole w/ Manhole Ring & Cover VF \$ 550.0 188D 4' Square Precast Manhole w/ Manhole Ring & Cover VF \$ 550.0 188D 4' Square Precast Manhole w/ Manhole Ring & Cover VF \$ 500.0 188D 4' Square Precast Manhole w/ Manhole Ring & Cover VF \$ 500.0 188D 4' Square Precast Manhole W/ Manhole Ring & Cover VF \$ 500.0 188D 4' Square Precast Manhole Ring & Cover VF \$ 500.0 188D 4' Square Precast Manhole Ring & Cover VF \$ 500.0 188D 4' Square Precast Manhole Ring & Cover VF \$ 500.0 188D 4' Square Precast Manhole Ring & Cover VF \$ 5) S) S) S) S) S) S) S) S	- - 2,925.00 - - - - - -
175D 6' Round Precast Inlet w/ Flush Grate Only) S) S) S) S) S) S) S) S	- 2,925.00 - - - - - - -
176D 4' Round Precast Inlet w/ Curb Hood & Grate 9 VF \$ 325.0		2,925.00
177D 5' Round Precast Inlet w/ Curb Hood & Grate VF \$ 400.0 178D 6' Round Precast Inlet w/ Curb Hood & Grate VF \$ 475.0 179D 4' Round Precast Inlet w/ Pedestal Top & Grate or MH Ring & Cover VF \$ 325.0 180D 5' Round Precast Inlet w/ Pedestal Top & Grate or MH Ring & Cover VF \$ 400.0 181D 6' Round Precast Inlet w/ Pedestal Top & Grate or MH Ring & Cover VF \$ 475.0 182D 4' Square Brick Manholes VF \$ 450.0 183D 5' Square Brick Manhole w/ Manhole Ring & Cover VF \$ 550.0 184D 6' Square Brick Manhole w/ Manhole Ring & Cover VF \$ 650.0 185D 4' Round Brick Manhole w/ Manhole Ring & Cover VF \$ 450.0 186D 5' Round Brick Manhole w/ Manhole Ring & Cover VF \$ 650.0 187D 6' Round Brick Manhole w/ Manhole Ring & Cover VF \$ 650.0 Square Precast Manholes VF \$ 650.0 188D 4' Square Precast Manhole w/ Manhole Ring & Cover VF \$ 650.0 188D 4' Square Precast Manhole w/ Manhole Ring & Cover VF \$ 650.0 188D 4' Square Precast Manhole w/ Manhole Ring & Cover VF \$ 650.0 188D 4' Square Precast Manhole w/ Manhole Ring & Cover VF \$ 650.0 188D 4' Square Precast Manhole w/ Manhole Ring & Cover VF \$ 650.0 188D 4' Square Precast Manhole w/ Manhole Ring & Cover VF \$ 650.0 188D 4' Square Precast Manhole w/ Manhole Ring & Cover VF \$ 650.0 188D 4' Square Precast Manhole w/ Manhole Ring & Cover VF \$ 650.0 188D 4' Square Precast Manhole w/ Manhole Ring & Cover VF \$ 650.0 188D 4' Square Precast Manhole w/ Manhole Ring & Cover VF \$ 650.0 188D 4' Square Precast Manhole w/ Manhole Ring & Cover VF \$ 650.0 188D 4' Square Precast Manhole w/ Manhole Ring & Cover VF \$ 650.0 188D 4' Square Precast Manhole w/ Manhole Ring & Cover VF \$ 650.0 188D 4' Square Precast Manhole w/ Manhole Ring & Cover VF \$ 650.0 188D 4' Square Precast Manhole w/ Manhole Ring & Cover VF \$ 650.0 188D 4' Square Precast Ma	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	-
178D 6' Round Precast Inlet w/ Curb Hood & Grate VF \$ 475.0) \$ () \$ () \$ () \$ () \$ () \$ () \$ () \$ (-
179D 4' Round Precast Inlet w/ Pedestal Top & Grate or MH Ring & Cover VF \$ 325.0) \$) \$) \$) \$) \$) \$	
180D 5' Round Precast Inlet w/ Pedestal Top & Grate or MH Ring & Cover VF \$ 400.0 181D 6' Round Precast Inlet w/ Pedestal Top & Grate or MH Ring & Cover VF \$ 475.0 Square Brick Manholes 182D 4' Square Brick Manhole w/ Manhole Ring & Cover VF \$ 450.0 183D 5' Square Brick Manhole w/ Manhole Ring & Cover VF \$ 550.0 184D 6' Square Brick Manhole w/ Manhole Ring & Cover VF \$ 650.0 Round Brick Manholes VF \$ 450.0 185D 4' Round Brick Manhole w/ Manhole Ring & Cover VF \$ 450.0 186D 5' Round Brick Manhole w/ Manhole Ring & Cover VF \$ 550.0 187D 6' Round Brick Manhole w/ Manhole Ring & Cover VF \$ 650.0 Square Precast Manholes VF \$ 400.0 188D 4' Square Precast Manhole w/ Manhole Ring & Cover VF \$ 400.0	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	
180D 5' Round Precast Inlet w/ Pedestal Top & Grate or MH Ring & Cover VF \$ 400.0 181D 6' Round Precast Inlet w/ Pedestal Top & Grate or MH Ring & Cover VF \$ 475.0 Square Brick Manholes 182D 4' Square Brick Manhole w/ Manhole Ring & Cover VF \$ 450.0 183D 5' Square Brick Manhole w/ Manhole Ring & Cover VF \$ 550.0 184D 6' Square Brick Manhole w/ Manhole Ring & Cover VF \$ 650.0 Round Brick Manholes VF \$ 450.0 185D 4' Round Brick Manhole w/ Manhole Ring & Cover VF \$ 450.0 186D 5' Round Brick Manhole w/ Manhole Ring & Cover VF \$ 550.0 187D 6' Round Brick Manhole w/ Manhole Ring & Cover VF \$ 650.0 Square Precast Manholes VF \$ 400.0 188D 4' Square Precast Manhole w/ Manhole Ring & Cover VF \$ 400.0	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	
181D 6' Round Precast Inlet w/ Pedestal Top & Grate or MH Ring & Cover VF \$ 475.0) \$	- - -
Square Brick Manholes 182D 4' Square Brick Manhole w/ Manhole Ring & Cover VF \$ 450.0 183D 5' Square Brick Manhole w/ Manhole Ring & Cover VF \$ 550.0 184D 6' Square Brick Manhole w/ Manhole Ring & Cover VF \$ 650.0 Round Brick Manholes VF \$ 450.0 185D 4' Round Brick Manhole w/ Manhole Ring & Cover VF \$ 450.0 186D 5' Round Brick Manhole w/ Manhole Ring & Cover VF \$ 550.0 187D 6' Round Brick Manhole w/ Manhole Ring & Cover VF \$ 650.0 Square Precast Manholes VF \$ 400.0 188D 4' Square Precast Manhole w/ Manhole Ring & Cover VF \$ 400.0	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	-
182D 4' Square Brick Manhole w/ Manhole Ring & Cover VF \$ 450.0 183D 5' Square Brick Manhole w/ Manhole Ring & Cover VF \$ 550.0 184D 6' Square Brick Manhole w/ Manhole Ring & Cover VF \$ 650.0 Round Brick Manhole w/ Manhole Ring & Cover 185D 4' Round Brick Manhole w/ Manhole Ring & Cover VF \$ 450.0 186D 5' Round Brick Manhole w/ Manhole Ring & Cover VF \$ 550.0 187D 6' Round Brick Manhole w/ Manhole Ring & Cover VF \$ 650.0 Square Precast Manholes 188D 4' Square Precast Manhole w/ Manhole Ring & Cover VF \$ 400.0) \$) \$) \$) \$	<u>u</u>
183D 5' Square Brick Manhole w/ Manhole Ring & Cover VF \$ 550.0 184D 6' Square Brick Manhole w/ Manhole Ring & Cover VF \$ 650.0 Round Brick Manhole w/ Manhole Ring & Cover 185D 4' Round Brick Manhole w/ Manhole Ring & Cover VF \$ 450.0 186D 5' Round Brick Manhole w/ Manhole Ring & Cover VF \$ 550.0 187D 6' Round Brick Manhole w/ Manhole Ring & Cover VF \$ 650.0 Square Precast Manholes 188D 4' Square Precast Manhole w/ Manhole Ring & Cover VF \$ 400.0) \$) \$) \$) \$	<u>u</u>
184D 6' Square Brick Manhole w/ Manhole Ring & Cover VF \$ 650.0 Round Brick Manholes 185D 4' Round Brick Manhole w/ Manhole Ring & Cover VF \$ 450.0 186D 5' Round Brick Manhole w/ Manhole Ring & Cover VF \$ 550.0 187D 6' Round Brick Manhole w/ Manhole Ring & Cover VF \$ 650.0 Square Precast Manholes 188D 4' Square Precast Manhole w/ Manhole Ring & Cover VF \$ 400.0) \$ 	프
Round Brick Manholes) \$) \$	
185D 4' Round Brick Manhole w/ Manhole Ring & Cover VF \$ 450.0 186D 5' Round Brick Manhole w/ Manhole Ring & Cover VF \$ 550.0 187D 6' Round Brick Manhole w/ Manhole Ring & Cover VF \$ 650.0 Square Precast Manholes 188D 4' Square Precast Manhole w/ Manhole Ring & Cover VF \$ 400.0	\$	_
186D 5' Round Brick Manhole w/ Manhole Ring & Cover VF \$ 550.0 187D 6' Round Brick Manhole w/ Manhole Ring & Cover VF \$ 650.0 Square Precast Manholes 188D 4' Square Precast Manhole w/ Manhole Ring & Cover VF \$ 400.0	\$	
187D 6' Round Brick Manhole w/ Manhole Ring & Cover VF \$ 650.0 Square Precast Manholes 188D 4' Square Precast Manhole w/ Manhole Ring & Cover VF \$ 400.0	_	
Square Precast Manholes 188D 4' Square Precast Manhole w/ Manhole Ring & Cover VF \$ 400.0		
188D 4' Square Precast Manhole w/ Manhole Ring & Cover VF \$ 400.0	Ф	-
) \$	=
189D 5' Square Precast Manhole w/ Manhole Ring & Cover VF \$ 450.0		
190D 6' Square Precast Manhole w/ Manhole Ring & Cover VF \$ 525.0		
Round Precast Manholes		
191D 4' Round Precast Manhole w/ Manhole Ring & Cover VF \$ 275.0) \$	-
192D 5' Round Precast Manhole w/ Manhole Ring & Cover VF \$ 300.0	_	
193D 6' Round Precast Manhole w/ Manhole Ring & Cover VF \$ 375.0		
Miscellaneous & Special Structures/Components		
194D 4' Dia. Pedestal Top with Inlet Frame and Grate EA \$ 950.0	\$	3
195D 5' Dia. Pedestal Top with Inlet Frame and Grate EA \$ 1,050.0		
196D 6' Dia. Pedestal Top with Inlet Frame and Grate EA \$ 1,175.0) \$	-
197D 4' Dia. Pedestal Top with MH Ring & Cover EA \$ 750.0	_	
198D 5' Dia. Pedestal Top with MH Ring & Cover EA \$ 1,000.0		
199D 6' Dia. Pedestal Top with MH Ring & Cover EA \$ 1,350.0	\$	-
200D 4' Dia Round to Square EA \$ 300.0) \$	-
201D 5' Dia Round to Square EA \$ 400.0	_	
202D 6' Dia Round to Square EA \$ 525.0		
2 In the interest of the control of	-	
203D Precast Replacement Top Only for Single Wing, w/ Ring & Cover, not including throat EA \$ 950.0) \$	5
204D Precast Replacement Top Only for Double Wing w/Ring & Cover, not including throat EA \$ 1,050.0	_	
205D 4'x4' Precast Top w/ MH Ring and Cover EA \$ 500.0	\$	-
	\$	
206D 5'x5' Precast Top w/ MH Ring and Cover EA \$ 675.0) \$	
206D 5'x5' Precast Top w/ MH Ring and Cover EA \$ 675.0 207D Cast-in-Place Top Only w/Ring & Cover CY \$ 1,150.0	Λ_{Φ}	2
207D Cast-in-Place Top Only w/Ring & Cover CY \$ 1,150.0 208D Cast-in-Place Throat Only CY \$ 750.0	\$	
207D Cast-in-Place Top Only w/Ring & Cover CY \$ 1,150.0 208D Cast-in-Place Throat Only CY \$ 750.0 209D Invert Installation, 4' Diameter 7 EA \$ 250.0) \$ -) \$	1,750.00
207D Cast-in-Place Top Only w/Ring & Cover CY \$ 1,150.0 208D Cast-in-Place Throat Only CY \$ 750.0 209D Invert Installation, 4' Diameter 7 EA \$ 250.0 210D Invert Installation, 5' Diameter EA \$ 300.0) \$ 	1,750.00
207D Cast-in-Place Top Only w/Ring & Cover CY \$ 1,150.0 208D Cast-in-Place Throat Only CY \$ 750.0 209D Invert Installation, 4' Diameter 7 EA \$ 250.0 210D Invert Installation, 5' Diameter EA \$ 300.0 211D Invert Installation, 6' Diameter EA \$ 350.0) \$ 	1,750.00 - -
207D Cast-in-Place Top Only w/Ring & Cover CY \$ 1,150.0 208D Cast-in-Place Throat Only CY \$ 750.0 209D Invert Installation, 4' Diameter 7 EA \$ 250.0 210D Invert Installation, 5' Diameter EA \$ 300.0) \$ 	1,750.00 - -
207D Cast-in-Place Top Only w/Ring & Cover CY \$ 1,150.0 208D Cast-in-Place Throat Only CY \$ 750.0 209D Invert Installation, 4' Diameter 7 EA \$ 250.0 210D Invert Installation, 5' Diameter EA \$ 300.0 211D Invert Installation, 6' Diameter EA \$ 350.0 212D Invert Installation, other configurations SF \$ 12.5	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	1,750.00 - - -
207D Cast-in-Place Top Only w/Ring & Cover CY \$ 1,150.0 208D Cast-in-Place Throat Only CY \$ 750.0 209D Invert Installation, 4' Diameter 7 EA \$ 250.0 210D Invert Installation, 5' Diameter EA \$ 300.0 211D Invert Installation, 6' Diameter EA \$ 350.0 212D Invert Installation, other configurations SF \$ 12.5 213D Uncover Buried Junction Box (<4')	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	1,750.00
207D Cast-in-Place Top Only w/Ring & Cover CY \$ 1,150.0 208D Cast-in-Place Throat Only CY \$ 750.0 209D Invert Installation, 4' Diameter 7 EA \$ 250.0 210D Invert Installation, 5' Diameter EA \$ 300.0 211D Invert Installation, 6' Diameter EA \$ 350.0 212D Invert Installation, other configurations SF \$ 12.5 213D Uncover Buried Junction Box (<4')	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	1,750.00 - - - -
207D Cast-in-Place Top Only w/Ring & Cover CY \$ 1,150.0 208D Cast-in-Place Throat Only CY \$ 750.0 209D Invert Installation, 4' Diameter 7 EA \$ 250.0 210D Invert Installation, 5' Diameter EA \$ 300.0 211D Invert Installation, 6' Diameter EA \$ 350.0 212D Invert Installation, other configurations SF \$ 12.5 213D Uncover Buried Junction Box (<4')	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	1,750.00
207D Cast-in-Place Top Only w/Ring & Cover CY \$ 1,150.0 208D Cast-in-Place Throat Only CY \$ 750.0 209D Invert Installation, 4' Diameter 7 EA \$ 250.0 210D Invert Installation, 5' Diameter EA \$ 300.0 211D Invert Installation, 6' Diameter EA \$ 350.0 212D Invert Installation, other configurations SF \$ 12.5 213D Uncover Buried Junction Box (<4')	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	1,750.00
207D Cast-in-Place Top Only w/Ring & Cover CY \$ 1,150.0 208D Cast-in-Place Throat Only CY \$ 750.0 209D Invert Installation, 4' Diameter 7 EA \$ 250.0 210D Invert Installation, 5' Diameter EA \$ 300.0 211D Invert Installation, 6' Diameter EA \$ 350.0 212D Invert Installation, other configurations SF \$ 12.5 213D Uncover Buried Junction Box (<4')) \$ () \$ () \$ () \$ () \$ () \$ () \$ () \$ (1,750.00
207D Cast-in-Place Top Only w/Ring & Cover CY \$ 1,150.0 208D Cast-in-Place Throat Only CY \$ 750.0 209D Invert Installation, 4' Diameter 7 EA \$ 250.0 210D Invert Installation, 5' Diameter EA \$ 300.0 211D Invert Installation, 6' Diameter EA \$ 350.0 212D Invert Installation, other configurations SF \$ 12.5 213D Uncover Buried Junction Box (<4')	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	1,750.00
207D Cast-in-Place Top Only w/Ring & Cover CY \$ 1,150.0 208D Cast-in-Place Throat Only CY \$ 750.0 209D Invert Installation, 4' Diameter 7 EA \$ 250.0 210D Invert Installation, 5' Diameter EA \$ 300.0 211D Invert Installation, 6' Diameter EA \$ 350.0 212D Invert Installation, other configurations SF \$ 12.5 213D Uncover Buried Junction Box (<4')) \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0	1,750.00 - - - - - - - - 300.00
207D Cast-in-Place Top Only w/Ring & Cover CY \$ 1,150.0 208D Cast-in-Place Throat Only CY \$ 750.0 209D Invert Installation, 4' Diameter 7 EA \$ 250.0 210D Invert Installation, 5' Diameter EA \$ 300.0 211D Invert Installation, 6' Diameter EA \$ 350.0 212D Invert Installation, other configurations SF \$ 12.5 213D Uncover Buried Junction Box (<4')) S) S) S) S) S) S) S) S	1,750.00 - - - - - - - 300.00 900.00
207D Cast-in-Place Top Only w/Ring & Cover CY \$ 1,150.0 208D Cast-in-Place Throat Only CY \$ 750.0 209D Invert Installation, 4' Diameter 7 EA \$ 250.0 210D Invert Installation, 5' Diameter EA \$ 300.0 211D Invert Installation, 6' Diameter EA \$ 350.0 212D Invert Installation, other configurations SF \$ 12.5 213D Uncover Buried Junction Box (<4')) S (S)	1,750.00 - - - - - - - 300.00 900.00 350.00

223D	30" Grout Each End to Structure		EA	\$	200.00	\$	-
224D	36" Grout Each End to Structure		EA	\$	225.00	\$	
225D	42" Grout Each End to Structure		EA	\$	250.00	\$	2
226D	48" Grout Each End to Structure		EA	\$	275.00	\$	=
227D	54" Grout Each End to Structure		EA	\$	350.00	\$	-
228D	60" Grout Each End to Structure	ALWIAWIAWIAWING	EA	\$	375.00	\$	
229D	66" Grout Each End to Structure		EA	\$	400.00	\$	2
230D	72" Grout Each End to Structure		EA	\$	400.00	\$	-
231D	Grout all joint, cracks & holes, in structures, complete	4	EA	\$	500.00	\$	2,000.00
	LINING REQUIREMENTS						
	Cured In Place Pipe Liner (CIPP) - (12' or less in depth)						
	Includes Pre and Post Television Inspections during lining						
232D	12" PIPE - 7.5mm (.2953")		LF	\$	65.00	\$	_
233D	15" PIPE - 7.5mm (.2953")		LF	\$	65.00	\$	=
234D	18" PIPE - 8.0mm (.315")	55	LF	\$	Transaction .	\$	3,465.00
235D	21" PIPE - 10.0mm (.3937")	62	LF	\$	92.00	\$	5,704.00
236D	24" PIPE - 10.0mm (.3937")	125	LF	\$	95.00	\$	11,875.00
237D	30" PIPE - 12.5mm (.4921")	123	LF	\$	131.00	\$	
			VIIII III III III III III III III III I				
238D	36" PIPE - 16.0mm (.6299")		LF	\$	147.00	\$	
239D	42" PIPE - 18.0mm (.7087")		LF	\$	240.00	\$	=
240D	48" PIPE - 21.0mm (.8268")		LF	\$	250.00	\$	=
241D	54" PIPE - 24.0mm (.9449")		LF	\$	370.00	\$	=
242D	60" PIPE - 28.5mm (1.122")		LF	\$	452.00	\$	ě
243D	66" PIPE - 30.0mm (1.1811")		LF	\$	550.00	\$	2
244D	72" PIPE - 32.5mm (1.2795")		LF	\$	603.00	\$	
245D	78" PIPE - 33.0mm (1.2992")		LF	\$	675.00	\$	
246D	84" PIPE - 35.5mm (1.3976")		LF	\$	776.00	\$	- 4
247D	90" PIPE - 38.0mm (1.4961")		LF	\$	850.00	\$	≅
248D	96" PIPE - 40.5mm (1.5945")		LF	\$	990.00	\$	=
249D	Additional Cost Per 1.5mm (.0591") Thickness - 12" PIPE		LF	\$	2.00	\$	-
250D	Additional Cost Per 1.5mm (.0591") Thickness - 15" PIPE		LF	\$	2.00	\$	ä
251D	Additional Cost Per 1.5mm (.0591") Thickness - 18" PIPE	110	LF	\$	3.50	\$	385.00
252D	Additional Cost Per 1.5mm (.0591") Thickness - 21" PIPE	189	LF	\$	3.50	\$	661.50
253D	Additional Cost Per 1.5mm (.0591") Thickness - 24" PIPE	250	LF	\$	3.75	\$	937.50
254D	Additional Cost Per 1.5mm (.0591") Thickness - 30" PIPE		LF	\$	5.25	\$	Ę
255D	Additional Cost Per 1.5mm (.0591") Thickness - 36" PIPE		LF	\$	5.50	\$	2
256D	Additional Cost Per 1.5mm (.0591") Thickness - 42" PIPE		LF	\$	7.25	\$	
257D	Additional Cost Per 1.5mm (.0591") Thickness - 48" PIPE		LF	\$	8.25	\$	=
258D	Additional Cost Per 1.5mm (.0591") Thickness - 54" PIPE		LF	\$	10.00	\$	4
259D	Additional Cost Per 1.5mm (.0591") Thickness - 60" PIPE		LF	\$	10.50	\$	2
260D	Additional Cost Per 1.5mm (.0591") Thickness - 66" PIPE		LF	\$	10.50	\$	-
261D	Additional Cost Per 1.5mm (.0591") Thickness - 72" PIPE		LF	\$	16.00	\$	-
262D	Additional Cost Per 1.5mm (.0591") Thickness - 78" PIPE		LF	\$	15.00	\$	<u> </u>
263D	Additional Cost Per 1.5mm (.0591") Thickness - 84" PIPE		LF	\$	25.50	\$	======================================
264D	Additional Cost Per 1.5mm (.0591") Thickness - 90" PIPE		LF	\$	25.50	\$	3
265D	Additional Cost Per 1.5mm (.0591") Thickness - 96" PIPE		LF	\$	26.00		_
2000	Inversion Setup		171	Ψ	20.00	Q	
266D	Inversion Setup Charge 15"- 36" CIPP	3	EACH	\$	800.00	\$	2,400.00
267D	Inversion Setup Charge 42" - 60" CIPP	3	EACH	\$	2,500.00		2,400.00
267D 268D	Inversion Setup Charge 42"- 60" CIPP Inversion Setup Charge 66"- 96" CIPP		EACH	\$	6,000.00	\$	
2001	Spin Cast Lining		LACI	Φ	0,000.00	Φ	-
O.CO.D.			T.T.	Ф	227.00	Ф	
269D	30" Cent. Spin Cast Lining - 1.5 in Thickness		LF	\$	227.00	\$	2
270D	36" Cent. Spin Cast Lining - 1.5 in Thickness		LF	\$	227.00	\$	=
271D	42" Cent. Spin Cast Lining - 1.5 in Thickness		LF	\$	278.00	\$	
272D	48" Cent. Spin Cast Lining - 1.5 in Thickness		LF	\$	305.00	\$	
273D	54" Cent. Spin Cast Lining - 1.5 in Thickness		LF	\$		\$	2
274D	60" Cent. Spin Cast Lining - 1.5 in Thickness		LF	\$	418.00	\$	=
275D	66" Cent. Spin Cast Lining - 1.5 in Thickness		LF	\$	475.00	\$	=
276D	72" Cent. Spin Cast Lining - 1.5 in Thickness		LF	\$		\$	- 5
277D	Additional Cost Per 0.5 in Thickness - 30" PIPE		LF	\$	41.00	\$	2
278D	Additional Cost Per 0.5 in Thickness - 36" PIPE		LF	\$	41.00	\$	=
279D	Additional Cost Per 0.5 in Thickness - 42" PIPE		LF	\$	41.00	\$	
280D	Additional Cost Per 0.5 in Thickness - 48" PIPE		LF	\$		\$	3
281D	Additional Cost Per 0.5 in Thickness - 54" PIPE		LF	\$	41.00	\$	3
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202D	A 11% The 1 CONTROL OF STATE OF THE STATE OF		TD	Ισ	55.00	Φ	
282D	Additional Cost Per 0.5 in Thickness - 60" PIPE		LF	\$ \$	55.00		=
283D	Additional Cost Per 0.5 in Thickness - 66" PIPE		LF		70.00	\$	5
284D	Additional Cost Per 0.5 in Thickness - 72" PIPE		LF	\$	75.00	\$	2
2050	Slip Lining w/HDPE, Includes Grouting		TD	Φ.	60.00	•	
285D	15" Slip Lining	manual interne	LF	\$	69.00	\$	-
	18" Slip Lining		LF	\$	100.00		5
287D	24" Slip Lining	_	LF	\$	105.00	_	=
288D	30" Slip Lining		LF	\$	125.00	100.00	4
289D	36" Slip Lining		LF	\$	160.00	\$	
290D	42" Slip Lining		LF	\$	200.00	-	5
291D	48" Slip Lining		LF	\$	230.00		=
292D	54" Slip Lining		LF	\$	380.00	\$	=
293D	60" Slip Lining		LF	\$	500.00	\$	=.
- 0 IT	Slip Lining with Snap-Tite HDPE (AASHTO M326), Include Grouting					•	
294D	12.75" OD		LF	\$	620.00	\$	2
295D	14" OD		LF	\$	625.00	10000	=
296D	18" OD		LF	\$	650.00		=
297D	20" OD		LF	\$	660.00		5
298D	24" OD		LF	\$	670.00	\$	2
299D	32" OD		LF	\$	700.00	\$	=
300D	36" OD		LF	\$	725.00	\$	•
301D	42" OD		LF	\$	750.00		5
302D	48" OD		LF	\$	795.00	_	2
303D	54" OD		LF	\$	850.00	\$	=
304D	63" OD		LF	\$	950.00	\$	=
	Styrene Free - Cured In Place Pipe Liner (12' or Less in Depth)		2.00				
305D	Styrene Free 12" PIPE - 7.5mm		LF	\$	85.00	\$	2
306D	Styrene Free 15" PIPE - 7.5mm		LF	\$	85.00	1002251	=
307D	Styrene Free 18" PIPE - 8.0mm		LF	\$	96.00		5.
308D	Styrene Free 21" PIPE - 10.0mm		LF	\$	125.00		5
309D	Styrene Free 24" PIPE - 10.0mm		LF	\$	147.00	\$	=
310D	Styrene Free 30" PIPE - 12.5mm		LF	\$	201.00	\$	=
311D	Styrene Free 36" PIPE - 16.0mm		LF	\$	256.00		-
312D	Styrene Free 42" PIPE - 18.0mm		LF	\$	403.00	\$	5
313D	Styrene Free 48" PIPE - 21.0mm		LF	\$	446.00		2
314D	Styrene Free 54" PIPE - 24.0mm		LF	\$	685.00	\$	-
315D	Styrene Free 60" PIPE - 28.5mm		LF	\$	778.00	\$	-
316D	Styrene Free 66" PIPE - 30.0mm		LF	\$	950.00	\$	5
317D	Styrene Free 72" PIPE - 32.5mm		LF	\$	1,155.00		2
318D	Styrene Free 78" PIPE - 33.0mm		LF	\$	1,250.00		=
319D	Styrene Free 84" PIPE - 35.5mm		LF	\$	1,628.00	\$	=
320D	Styrene Free 90" PIPE - 38.0mm		LF	\$	1,850.00	\$	5
321D	Styrene Free 96" PIPE - 40.5mm		LF	\$	1,993.00	\$	2
322D	Additional Cost Per 1.5mm Thickness Styrene Free - 12" PIPE		LF	\$	6.00	\$	¥
323D	Additional Cost Per 1.5mm Thickness Styrene Free - 15" PIPE		LF	\$	6.00		3
324D	Additional Cost Per 1.5mm Thickness Styrene Free - 18" PIPE		LF	\$	8.50	\$	
325D	Additional Cost Per 1.5mm Thickness Styrene Free - 21" PIPE		LF	\$	10.00		=
326D	Additional Cost Per 1.5mm Thickness Styrene Free - 24" PIPE		LF	\$	11.50	100004	=
327D	Additional Cost Per 1.5mm Thickness Styrene Free - 30" PIPE		LF	\$	12.50		-
328D	Additional Cost Per 1.5mm Thickness Styrene Free - 36" PIPE		LF	\$	15.50		<u></u>
329D	Additional Cost Per 1.5mm Thickness Styrene Free - 42" PIPE		LF	\$	25.00		2
330D	Additional Cost Per 1.5mm Thickness Styrene Free - 48" PIPE		LF	\$	25.50		-
331D	Additional Cost Per 1.5mm Thickness Styrene Free - 54" PIPE		LF	\$	25.50		=
332D	Additional Cost Per 1.5mm Thickness Styrene Free - 60" PIPE		LF	\$	35.50	0.000	
333D	Additional Cost Per 1.5mm Thickness Styrene Free - 66" PIPE		LF	\$	35.50	_	
334D	Additional Cost Per 1.5mm Thickness Styrene Free - 72" PIPE		LF	\$	51.00	-	
335D	Additional Cost Per 1.5mm Thickness Styrene Free - 78" PIPE		LF	\$	51.00		=
336D	Additional Cost Per 1.5mm Thickness Styrene Free - 84" PIPE		LF	\$	51.00		
337D	Additional Cost Per 1.5mm Thickness Styrene Free - 90" PIPE		LF	\$	55.00		
338D	Additional Cost Per 1.5mm Thickness Styrene Free - 96" PIPE		LF	\$	61.00	\$	<u></u>
2265	Cast in Place Concrete		0.7.				
339D	Paved Ditch/Swale (4" Thick)	_	SY	\$	35.90		-
340D	Driveway 4" Concrete (Residential w/4" of GAB included)	27	SY	\$	49.90		1,347.30
341D	Driveway 6" Concrete (Commercial w/6" of GAB included)		SY	\$	59.90	\$	2

				1.			
342D	Driveway 8" Concrete (Commercial w/6" of GAB included)		SY	\$		\$	
343D	Regular Duty Sidewalk (4" Thick, 3000 psi) <5' length		SY	\$	63.00	\$	5
344D	Regular Duty Sidewalk (4" Thick, 3000 psi) 5'-10' length		SY	\$	63.00	\$	2
345D	Regular Duty Sidewalk (4" Thick, 3000 psi) 11'-20'		SY	\$	53.00	\$	=
346D	Medium Duty Sidewalk (5" Thick, Fiber Reinf. 3000 psi) <5' length		SY	\$	73.00	\$	entre
347D	Medium Duty Sidewalk (5" Thick, Fiber Reinf. 3000 psi) 5'-10' length		SY SY	\$	73.00 63.00	\$	5
348D 349D	Medium Duty Sidewalk (5" Thick, Fiber Reinf. 3000 psi)b 11'-20' length Heavy Duty Sidewalk (6" w/Wire Mesh, & 3500 psi) <5' length		SY	\$	78.00	\$	-
111100111111111111111111111111111111111			SY	\$		-	
350D	Heavy Duty Sidewalk (6" w/Wire Mesh, & 3500 psi) 5'-10' length		SY	\$	78.00	\$	=
351D 352D	Heavy Duty Sidewalk (6" w/Wire Mesh, & 3500 psi)11'-20' length	200	25.760	0.00	68.00	11/71/2	0.570.00
353D	Curb & Gutter 6"x24"x12" High Back Curb & Gutter 6"x30"x12" High Back	300	LF LF	\$	31.90 34.90	\$	9,570.00
354D	Curb and Gutter 6"x24"x10" Roll Back	26	LF	\$	31.90	\$	829.40
355D	Straight Header Curb	16	LF	\$	19.90	\$	318.40
356D	Concrete Drainage Structures Poured In Place w/ Steel	10	CY	\$	695.00	\$	310.40
357D	High Early Strength (5000 psi)		CY	\$	150.00	\$	-
331D	Road Restoration		CI	Ψ	150.00	Ψ	
358D	Graded Aggregate Base	684	Ton	\$	75.00	\$	51,300.00
359D	Crusher Run Stone	004	Ton	\$	35.00	\$	-
360D	Asphaltic Concrete Binder Course	54	Ton	\$	125.00	\$	6,750.00
361D	Asphaltic Concrete Surface Course	27	Ton	\$	135.00	\$	3,645.00
362D	Tack Coat	50	Gal	\$	15.00	\$	750.00
363D	2" Asph. Con. Hot Mix for Trench Cap	30	Ton	\$	135.00	\$	-
364D	8" Thick 3000 psi- Concrete Trench Cap		CY	\$	295.00	\$	
0012	Earthwork & Grading			4	_,,,,,,	-	
365D	Tree Removal 6"-12""		EA	\$	490.00	\$	-
366D	Tree Removal 13"-23"		EA	\$	790.00	\$	=
367D	Tree Removal >23"		EA	\$	1,490.00	\$	
368D	Clear & Grubbing	134	SY	\$	8.90	\$	1,192.60
369D	Channel Excavation		CY	\$	8.00	\$	=
370D	Additional Excavation		CY	\$	8.00	\$	=
371D	Haul-In Structural Fill Material		CY	\$	30.00	\$	5
372D	Haul-Off Soil Material	552	CY	\$	25.00	\$	13,800.00
373D	Finish Grading	890	SY	\$	3.00	\$	2,670.00
374D	Trench Rock Excavation		CY	\$	135.00	\$	=
375D	Debris Removal		CY	\$	40.00	\$	
	Erosion Control						
376D	Stone Rip Rap Type I In Place		SY	\$	59.00	\$	=
377D	Stone Rip Rap Type III In Place	11	SY	\$	49.00	\$	539.00
378D	Stone Grouted Rip Rap 12" Installed		SY	\$	79.00	\$	
379D	Install & Remove Type A Silt Fence	300	LF	\$	3.50	\$	1,050.00
380D	Install & Remove Type C Silt Fence		LF	\$	5.90	\$	2
381D	Install & Remove Type C Silt Fence - Alternative		LF	\$	5.90	\$	-
382D	Inlet Sediment Traps - Silt Fence Sd2	- P-255	EA	\$	99.00	\$	
383D	Rock Bags for curb inlet/CB sediment Protection	22	EA	\$	100.00	\$	2,200.00
384D	Install & Remove Orange Tree Save Fence	600	LF	\$	2.90	\$	1,740.00
385D	Gabion Structures (GDOT Section 626 & 809)	ERSEYO	CY	\$		\$	
386D	Permanent Soil Reinf Mat Installed		SY	\$	6.90	\$	
387D	Organic Material Fiber Blanket Installed		SY	\$	2.90	\$	2
388D	Seed & Straw (Permanent Grassing)	900	SY	\$	1.90	\$	- 001.00
389D	Seed & Straw (Temporary Grassing)	890	SY	\$	0.90	\$	801.00
390D	Sodding Complete-Fescue	228	SY	\$	5.75	\$	1,311.00
391D	Sodding Complete-Bermuda	342	SY	\$	5.50	\$	1,881.00
392D	Sodding Complete-Zoyzia	285	SY		8.00	\$	2,280.00
393D 394D	Sodding Complete-Centipede Topsoil Compete	15	SY CY	\$	6.50 29.00	\$	435.00
394D 395D	Pine Straw	280	SY	\$	1.90	\$	532.00
	Straw Mulch	445	SY	\$	0.90	\$	400.50
396D 397D	Tree Replacement 2-1/2" Hardwood, Installed	443	EA	\$	249.00	\$	400.30
397D 398D	Tree Replacement 2-1/2" Fine, Installed		EA EA	\$	249.00	\$	
399D	Shrub Replacement 2-1/2 Prine, installed		EA EA	\$	69.00	\$	
400D	Shrub Replacemnt: 3 gallon, installed		EA	\$	89.00	\$	
400D 401D	Shrub Replacemnt: 5 gallon, installed		EA	\$	129.00	\$	-
	pom ao ropiacemin. J garren, mistanica		LA	Ψ		Ψ	
402D	Shrub Replacemnt: 7 gallon, installed		EA	\$	149.00	\$	-

403D	Bedding Flower per flat of 18, installed		SY	\$ 79.00	\$	=
	Miscellaneous Items					
404D	Connect to Existing Structures	1	EA	\$ 750.00	\$	750.00
405D	Debris Removal, Tandem Dump Truck	10	Per Load	\$ 750.00	\$	7,500.00
406D	Removal of Existing Non Drainage Structure	1	EA	\$ 790.00	\$	790.00
407D	Removal of Existing Drainage Structure	5	EA	\$ 790.00	\$	3,950.00
408D	Remove Existing Pipe all Types and Sizes		LF	\$ 59.00	\$	2
409D	Saw Cut Existing Pavements	850	LF	\$ 3.00	\$	2,550.00
410D	Stone #57	144	TON	\$ 38.00	\$	5,472.00
411D	Surge Stone		TON	\$ 38.00	\$	
412D	No. 3's and 4's Stone		TON	\$ 38.00	\$	10
413D	Roll-Off Dumpster		Per Day	\$ 600.00	\$	=
414D	Relocate Existing Residential Water Meter, Including Box	1	EA	\$ 190.00	\$	190.00
415D	Install Thermal Barrier to protect water service line or other utilities		SF	\$ 10.90	\$	
416D	Bypass pumping setup-equipment and hose placement		EA	\$ 700.00	\$	I.C.
417D	4" Pumping Operation Time		HR	\$ 50.00	\$	ä
418D	6" Pumping Operation Time		HR	\$ 60.00	\$	=
419D	8" Pumping Operation Time		HR	\$ 79.00	\$	
420D	10" Pumping Operation Time		HR	\$ 230.00	\$	2
421D	12" Pumping Operation Time		HR	\$ 275.00	\$	ä
422D	Temporary 4' Chain Link Fence		LF	\$ 12.50	\$	=
423D	Remove and Replace Existing 4' Galvanized Standard Chain Link Fence Residential		LF	\$ 19.90	\$	3
424D	Remove and Replace Existing 5' Galvanized Standard Chain Link Fence Residential		LF	\$ 19.90	\$	2
425D	Remove and Replace Existing 4' Black Vinyl Standard Chain Link Fence Residential		LF	\$ 24.90	\$	ä
426D	Remove and Replace Existing 5' Black Vinyl Standard Chain Link Fence Residential		LF	\$ 24.90	\$	=
427D	Steel Plates (Typ. 5'x8' Size)	40	EA/Day	\$ 100.00	\$	4,000.00
428D	Reset Existing Headwall		EA	\$ 149.00	\$	2
	Total Estimate				¢ ′	200,620.25
	10% Contingency					20,062.03
	Grand Total of Estimate					220,682.28