

MEMORANDUM

To: Mayor and City Council

From: David Elliott

Date: January 8, 2018

Subject: **4099 Chestnut Ridge Drive funding approval for Stormwater Repairs.**

ITEM DESCRIPTION

Approval of Funding for Stormwater Pipe Repairs at 4099 Chestnut Ridge Drive. Estimate for the culvert rehabilitation is \$55,956.88, which includes a 10% contingency.

BACKGROUND

Needed repairs have been identified involving 176' of 42" corrugated metal pipe. Repairs are needed due to both age and pipe damage during original construction. The planned repairs consist of rehabilitating 176' of 42" corrugated metal pipe with cured in place pipe.

This project will be funded with the 2018 Stormwater Maintenance Budget.

RECOMMENDED ACTION

Staff recommends approving \$55,956.88 in funding for Stormwater Culvert Repairs at 4099 Chestnut Ridge Drive.

#H.14.



Pipe Damage From Original Construction



Pipe Damage From Original Construction

#H.14.



Rusting and Pipe Deterioration due to age

City of Dunwoody - Annual Stormwater CIPP Proposal - 4109 Chestnut Dr 42-inch CIPP



Tuesday, November 14, 2017

ITEM	DESCRIPTION	UNIT	UNIT PRICE	QTY	EXTENDED PRICE
205	4'x4' Precast Top w/ MH Ring and Cover	EA	\$ 1,362.00		\$ -
206	5'x5' Precast Top w/ MH Ring and Cover	EA	\$ 1,702.00		\$ -
207	Cast-in-Place Top Only w/ Ring & Cover	CY	\$ 1,418.00		\$ -
208	Cast-in-Place Throat Only	CY	\$ 1,021.00		\$ -
209	Invert Installation, 4' Diameter	EA	\$ 318.00		\$ -
210	Invert Installation, 5' Diameter	EA	\$ 369.00		\$ -
211	Invert Installation, 6' Diameter	EA	\$ 454.00	1	\$ 454.00
212	Invert Installation, other configurations	SF	\$ 40.00		\$ -
213	Uncover Buried Junction Box (<4')	EA	\$ 454.00	1	\$ 454.00
214	Uncover Buried Junction Box (4'-7.9')	EA	\$ 511.00		\$ -
215	Uncover Buried Junction Box (8'-11.9')	EA	\$ 568.00		\$ -
216	Uncover Buried Junction Box (>12')	EA	\$ 681.00		\$ -
Grout Connection To Structure					
217	12" Grout Each End to Structure	EA	\$ 454.00		\$ -
218	15" Grout Each End to Structure	EA	\$ 511.00		\$ -
219	18" Grout Each End to Structure	EA	\$ 568.00		\$ -
220	21" Grout Each End to Structure	EA	\$ 568.00		\$ -
221	24" Grout Each End to Structure	EA	\$ 624.00		\$ -
222	27" Grout Each End to Structure	EA	\$ 681.00		\$ -
223	30" Grout Each End to Structure	EA	\$ 738.00		\$ -
224	36" Grout Each End to Structure	EA	\$ 794.00		\$ -
225	42" Grout Each End to Structure	EA	\$ 851.00	2	\$ 1,702.00
226	48" Grout Each End to Structure	EA	\$ 91.00		\$ -
227	54" Grout Each End to Structure	EA	\$ 965.00		\$ -
228	60" Grout Each End to Structure	EA	\$ 1,021.00		\$ -
229	66" Grout Each End to Structure	EA	\$ 1,078.00		\$ -
230	72" Grout Each End to Structure	EA	\$ 1,135.00		\$ -
231	Grout all joint, cracks & holes, in structures, complete	EA	\$ 568.00	2	\$ 1,136.00
LINING REQUIREMENTS					
Cured In Place Pipe Liner (CIPP) - (12' or less in depth) Includes Pre & Post Television Inspections during lining					
232	12" PIPE- 7.5mm (.2953")	LF	\$ 68.31		\$ -
233	15" PIPE- 7.5mm (.2953")	LF	\$ 68.31		\$ -
234	18" PIPE- 8.0mm (.315")	LF	\$ 71.28		\$ -
235	21" PIPE- 10.0mm (.3937")	LF	\$ 81.18		\$ -
236	24" PIPE- 10.0mm (.3937")	LF	\$ 101.97		\$ -
237	30" PIPE- 12.5mm (.4921")	LF	\$ 123.75		\$ -
238	36" PIPE- 16.0mm (.6299")	LF	\$ 157.41		\$ -
239	42" PIPE- 18.0mm (.7087")	LF	\$ 207.90	176	\$ 36,590.40
240	48" PIPE- 21.0mm (.8268")	LF	\$ 247.50		\$ -
241	54" PIPE- 24.0mm (.9449")	LF	\$ 308.88		\$ -

City of Dunwoody - Annual Stormwater CIPP Proposal - 4109 Chestnut Dr 42-inch CIPP



Tuesday, November 14, 2017

ITEM	DESCRIPTION	UNIT	UNIT PRICE	QTY	EXTENDED PRICE
242	60" PIPE- 28.5mm (1.122")	LF	\$ 436.59		\$ -
243	66" PIPE- 30.0mm (1.181")	LF	\$ 781.11		\$ -
244	72" PIPE- 32.5mm (1.2795")	LF	\$ 935.55		\$ -
245	78" PIPE- 33.0mm (1.2992")	LF	\$ 1,099.89		\$ -
246	84" PIPE- 35.5mm (1.3976")	LF	\$ 1,274.13		\$ -
247	90" PIPE- 38.0mm (1.4961")	LF	\$ 1,308.78		\$ -
248	96" PIPE - 40.5mm (1.5945")	LF	\$ 1,358.28		\$ -
249	Additional Cost Per 1.5mm (.0591")Thickness - 12" PIPE	LF	\$ 2.97		\$ -
250	Additional Cost Per 1.5mm (.0591") Thickness - 15" PIPE	LF	\$ 2.97		\$ -
251	Additional Cost Per 1.5mm (.0591")Thickness - 18" PIPE	LF	\$ 2.97		\$ -
252	Additional Cost Per 1.5mm (.0591") Thickness - 21" PIPE	LF	\$ 3.96		\$ -
253	Additional Cost Per 1.5mm (.0591")Thickness - 24" PIPE	LF	\$ 3.96		\$ -
254	Additional Cost Per 1.5mm (.0591")Thickness - 30" PIPE	LF	\$ 4.95		\$ -
255	Additional Cost Per 1.5mm (.0591")Thickness - 36" PIPE	LF	\$ 4.95		\$ -
256	Additional Cost Per 1.5mm (.0591") Thickness - 42" PIPE	LF	\$ 5.94		\$ -
257	Additional Cost Per 1.5mm (.0591")Thickness - 48" PIPE	LF	\$ 7.92		\$ -
258	Additional Cost Per 1.5mm (.0591")Thickness - 54" PIPE	LF	\$ 10.89		\$ -
259	Additional Cost Per 1.5mm (.0591")Thickness - 60" PIPE	LF	\$ 10.89		\$ -
260	Additional Cost Per 1.5mm (.0591") Thickness - 66" PIPE	LF	\$ 13.86		\$ -
261	Additional Cost Per 1.5mm (.0591")Thickness - 72" PIPE	LF	\$ 15.84		\$ -
262	Additional Cost Per 1.5mm (.0591")Thickness - 78" PIPE	LF	\$ 18.81		\$ -
263	Additional Cost Per 1.5mm (.0591")Thickness - 84" PIPE	LF	\$ 20.79		\$ -
264	Additional Cost Per 1.5mm (.0591")Thickness - 90" PIPE	LF	\$ 22.77		\$ -
265	Additional Cost Per 1.5mm (.0591") Thickness - 96" PIPE	LF	\$ 24.75		\$ -
Inversion Setup					
266	Inversion Setup Charge 15"- 36" CIPP	EA	\$ 1,684.98		\$ -
267	Inversion Setup Charge 42"- 60" CIPP	EA	\$ 1,909.71	1	\$ 1,909.71
268	Inversion Setup Charge 66"- 96" CIPP	EA	\$ 2,807.64		\$ -

City of Dunwoody - Annual Stormwater CIPP Proposal - 4109 Chestnut Dr 42-inch CIPP



Tuesday, November 14, 2017

ITEM	DESCRIPTION	UNIT	UNIT PRICE	QTY	EXTENDED PRICE
General Conditions					
1	Mobilization	EA	\$ 2,269.00	1	\$ 2,269.00
2	Out of Scope Work, Foreman	HR	\$ 46.00		\$ -
3	Out of Scope Work, Laborer	HR	\$ 35.00		\$ -
TV Inspection and Jet-Vac Cleaning					
7	TV Storm Lines (includes DVD & Report)	LF	\$ 5.00	176	\$ 880.00
8	Visual Inspection (Pictures), per Project (During Construction)	EA	\$ 284.00		\$ -
9	Hydro-Excavation (Complete)	HR	\$ 341.00		\$ -
Storm Line Cleaning (less than 25% full)					
10	12" PIPE- Cleaning less than 25% full	LF	\$ 3.00		\$ -
11	15" PIPE- Cleaning less than 25% full	LF	\$ 3.00		\$ -
12	18" PIPE- Cleaning less than 25% full	LF	\$ 3.00		\$ -
13	21" PIPE- Cleaning less than 25% full	LF	\$ 4.00		\$ -
14	24" PIPE- Cleaning less than 25% full	LF	\$ 4.00		\$ -
15	30" PIPE- Cleaning less than 25% full	LF	\$ 4.00		\$ -
16	36" PIPE - Cleaning less than 25% full	LF	\$ 4.00		\$ -
17	42" PIPE- Cleaning less than 25% full	LF	\$ 5.00	176	\$ 880.00
18	48" PIPE- Cleaning less than 25% full	LF	\$ 6.00		\$ -
19	54" PIPE- Cleaning less than 25% full	LF	\$ 8.00		\$ -
20	60" PIPE - Cleaning less than 25% full	LF	\$ 10.00		\$ -
21	66" PIPE - Cleaning less than 25% full	LF	\$ 12.00		\$ -
22	72" PIPE - Cleaning less than 25% full	LF	\$ 13.00		\$ -
23	78" PIPE - Cleaning less than 25% full	LF	\$ 16.00		\$ -
24	84" PIPE - Cleaning less than 25% full	LF	\$ 18.00		\$ -
25	90" PIPE - Cleaning less than 25% full	LF	\$ 19.00		\$ -
26	96" PIPE - Cleaning less than 25% full	LF	\$ 20.00		\$ -
Miscellaneous & Special Structures/Components					
194	4' Dia. Pedestal Top with Inlet Frame and Grate	EA	\$ 1,135.00		\$ -
195	5' Dia. Pedestal Top with Inlet Frame and Grate	EA	\$ 1,305.00		\$ -
196	6' Dia. Pedestal Top with Inlet Frame and Grate	EA	\$ 1,418.00		\$ -
197	4' Dia. Pedestal Top with MH Ring & Cover	EA	\$ 1,135.00		\$ -
198	5' Dia. Pedestal Top with MH Ring & Cover	EA	\$ 1,305.00		\$ -
199	6' Dia. Pedestal Top with MH Ring & Cover	EA	\$ 1,418.00	1	\$ 1,418.00
200	4' Dia Round to Square	EA	\$ 1,362.00		\$ -
201	5' Dia Round to Square	EA	\$ 1,503.00		\$ -
202	6' Dia Round to Square	EA	\$ 1,645.00		\$ -
203	Precast Replacement Top Only for Single Wing, w/ Ring & Cover, not including throat	EA	\$ 1,418.00		\$ -
204	Precast Replacement Top Only for Double Wing w/Ring & Cover, not including throat	EA	\$ 1,560.00		\$ -

City of Dunwoody - Annual Stormwater CIPP Proposal - 4109 Chestnut Dr 42-inch CIPP



Tuesday, November 14, 2017

ITEM	DESCRIPTION	UNIT	UNIT PRICE	QTY	EXTENDED PRICE
Earthwork & Grading					
357	Tree Removal 6"-12"	EA	\$ 681.00		\$ -
358	Tree Removal 13"-23"	EA	\$ 1,702.00		\$ -
359	Tree Removal >23"	EA	\$ 2,836.00		\$ -
360	Clear & Grubbing	SY	\$ 6.00		\$ -
361	Channel Excavation	CY	\$ 18.00		\$ -
362	Additional Excavation	CY	\$ 12.00		\$ -
363	Haul-In Structural Fill Material	CY	\$ 23.00		\$ -
364	Haul-Off Soil Material	CY	\$ 23.00		\$ -
365	Finish Grading	SY	\$ 10.00	77.8	\$ 777.78
366	Trench Rock Excavation	CY	\$ 171.00		\$ -
367	Debris Removal	CY	\$ 23.00		\$ -
Erosion Control					
368	Stone Rip Rap Type I In Place	SY	\$ 52.00		\$ -
369	Stone Rip Rap Type III In Place	SY	\$ 40.00		\$ -
370	Stone Grouted Rip Rap 12" Installed	SY	\$ 63.00		\$ -
371	Install & Remove Type A Silt Fence	LF	\$ 3.00		\$ -
372	Install & Remove Type C Silt Fence	LF	\$ 4.00		\$ -
373	Install & Remove Type C Silt Fence - Alternative	LF	\$ 4.00		\$ -
374	Inlet Sediment Traps - Silt Fence Sd2	EA	\$ 57.00		\$ -
375	Rock Bags for curb inlet/CB sediment Protection	EA	\$ 114.00		\$ -
376	Install & Remove Orange Tree Save Fence	LF	\$ 4.00		\$ -
377	Gabion Structures (DOT Section 626 & 809)	CY	\$ 681.00		\$ -
378	Permanent Soil Reinf Mat Installed	SY	\$ 8.00		\$ -
379	Organic Material Fiber Blanket Installed	SY	\$ 6.00		\$ -
380	Seed & Straw (Permanent Grassing)	SY	\$ 5.00		\$ -
381	Seed & Straw (Temporary Grassing)	SY	\$ 4.00	77.8	\$ 311.11
382	Sodding Complete-Fescue	SY	\$ 10.00		\$ -
383	Sodding Complete-Bermuda	SY	\$ 11.00		\$ -
384	Sodding Complete-Zoyzia	SY	\$ 14.00	77.8	\$ 1,088.89
385	Sodding Complete-Centipede	SY	\$ 11.00		\$ -
386	Topsoil Compete	CY	\$ 29.00		\$ -
387	Pine Straw	SY	\$ 11.00		\$ -
388	Straw Mulch	SY	\$ 10.00		\$ -
389	Tree Replacement 2-1/2" Hardwood, Installed	EA	\$ 256.00		\$ -
390	Tree Replacement 2-1/2" Pine, Installed	EA	\$ 256.00		\$ -
391	Shrub Replacement: 1 gallon, installed	EA	\$ 69.00		\$ -
392	Shrub Replacement: 3 gallon, installed	EA	\$ 91.00		\$ -
393	Shrub Replacement: 5 gallon, installed	EA	\$ 114.00		\$ -
394	Shrub Replacement: 7 gallon, installed	EA	\$ 142.00		\$ -

**City of Dunwoody - Annual Stormwater CIPP
Proposal - 4109 Chestnut Dr 42-inch CIPP**



Tuesday, November 14, 2017

ITEM	DESCRIPTION	UNIT	UNIT PRICE	QTY	EXTENDED PRICE
395	Bedding Flower per flat of 18, installed	SY	\$ 57.00		\$ -
Miscellaneous Items					
396	Connect to Existing Structures	EA	\$ 454.00		\$ -
397	Debris Removal, Tandem Dump Truck	Per Load	\$ 171.00	1	\$ 171.00
398	Removal of Existing Non Drainage Structure	EA	\$ 681.00		\$ -
399	Removal of Existing Drainage Structure	EA	\$ 908.00		\$ -
400	Remove Existing Pipe all Types and Sizes	LF	\$ 57.00		\$ -
401	Saw Cut Existing Pavements	LF	\$ 5.00		\$ -
402	Stone #57	TON	\$ 40.00		\$ -
403	Surge Stone	TON	\$ 29.00		\$ -
404	No. 3's and 4's Stone	TON	\$ 29.00		\$ -
405	Roll-Off Dumpster	Per Day	\$ 397.00		\$ -
406	Relocate Existing Residential Water Meter, Including Box	EA	\$ 284.00		\$ -
407	Install Thermal Barrier to protect water service line or other utilities	SF	\$ 2.00		\$ -
408	Bypass pumping setup-equipment and hose placement	EA	\$ 227.00		\$ -
409	4" Pumping Operation Time	HR	\$ 57.00		\$ -
410	6" Pumping Operation Time	HR	\$ 69.00	12	\$ 828.00
411	8" Pumping Operation Time	HR	\$ 80.00		\$ -
412	10" Pumping Operation Time	HR	\$ 91.00		\$ -
413	12" Pumping Operation Time	HR	\$ 103.00		\$ -
414	Temporary 4' Chain Link Fence	LF	\$ 23.00		\$ -
415	Remove and Replace Existing 4' Galvanized Standard Chain Link Fence Residential	LF	\$ 35.00		\$ -
416	Remove and Replace Existing 5' Galvanized Standard Chain Link Fence Residential	LF	\$ 40.00		\$ -
417	Remove and Replace Existing 4' Black Vinyl Standard Chain Link Fence Residential	LF	\$ 40.00		\$ -
418	Remove and Replace Existing 5' Black Vinyl Standard Chain Link Fence Residential	LF	\$ 46.00		\$ -
419	Steel Plates (Typ. 5'x8' Size)	EA/Day	\$ 227.00		\$ -
420	Reset Existing Headwall	EA	\$ 341.00		\$ -
	10% Contingency				\$ 5,086.99
	Total				\$ 55,956.88