



LAWRENCEVILLE

GEORGIA

STORMWATER UTILITY BOARD AGENDA

Wednesday, September 25, 2019
3:00 PM

Third Floor Engineering Conference Room
70 S. Clayton St, GA 30046

Call to Order

Review of Current Projects

- [1.](#) Update of Current Projects

Review of Proposed New Projects

- [2.](#) 241-301 Hanarry Drive [Hanarry Estates North Unit Four]
- [3.](#) 1020 & 1021 Henry Terrace [Cramac Plantation]
- [4.](#) East Crogan/East Pike intersection storm drain repair
- [5.](#) 856 & 857 Hanarry Drive [Hanarry Estates North Unit Three] Storm Drain Culvert replace
- [6.](#) 333 & 334 Spring Ridge Drive [Forest Hills]
- [7.](#) 520 Carithers Road Culvert Replacement

Comments from Utility Board Staff

Final Adjournment



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1.

AGENDA REPORT
MEETING: STORM WATER UTILITY BOARD
AGENDA CATEGORY: UPDATE OF CURRENT PROJECT

Item: Update of Current Projects
Department: Engineering/Storm Water
Date of Meeting: Wednesday, September 25, 2019
Fiscal Impact: None
Presented By: Johannes Louw

Attachments/Exhibits:
0507_007

ENGINEERING PROJECTS STORM WATER DRAINAGE					
PROJECT #	PROJECT NAME	CONTRACTOR/COMMENCE	STATUS	BID AMOUNT	CONST DAYS
WQ015-19	1140 GRAYLAND HILL TRAIL STORM DRAIN REPAIR PROJECT.	SMITH & CO., INC.	COMPLETE	\$ 58,415.61	20
WQ022-19	920 LAUREN KAY COURT STORM DRAIN REPLACEMENT PROJECT(BASIN STUDY)	Ryde Grading, Inc	UNDER CONSTRUCTION	\$ 88,127.90	30
SB012-19	181 HANARRY DRIVE & 821 BLAKE COURT STORM DRAIN SYSTEM REPLACEMENT PROJECT	Kennedy & Tillman, LLC. - BID OPENING 7/17/2019	waiting on contracts - WILL START SOON	\$ 205,194.11	90 (45)
SB014-19	1291 CREEKWOOD COVE STORM DRAIN REPLACEMENT PROJECT	Kennedy & Tillman, LLC. - BID OPENING 7/17/2020	waiting on contracts - WILL START SOON	\$ 206,910.00	90
NEW STORM DRAIN	HANARRY DR. (NORTH) STORM SYSTEM REPLACEMENT PROJECT	UP FOR REVIEW - FOR DISCUSSION ON STORM WATER UTILITY MEETING - (CAMERA WORK COMPLETE)	waiting Storm water Board approval - WILL BID SOON	\$ 236,700.20	60
NEW STORM DRAIN	1021 HENRY TERRACE STORM DRAIN PROJECT	UP FOR REVIEW - FOR DISCUSSION ON STORM WATER UTILITY MEETING - (CAMERA WORK COMPLETE)	IN DESIGN PHASE	\$ 80,581.60	45
NEW STORM DRAIN	HARRINGTON LANE STORM DRAIN PROJECT	BRADLEY TO REPORT BACK- UNDER INVESTIGATION - UP FOR REVIEW	WAITING CHUCK & LAWYERS DECISION		
NEW STORM DRAIN	520 CARITHERS ROAD HEAD WALL & STORM DRAIN REPLACEMENT PROJECT.(SHOAL CREEK)	UP FOR REVIEW - PPI DESIGN COMPLETE ,READY TO BID.	WILL BID SOON	\$ 152,544.00	45
NEW STORM DRAIN	334 SPRING RIDGE DRAINAGE IMPROVEMENT PROJECT(PEW CREEK)	UP FOR REVIEW - PPI DESIGN COMPLETE ,READY TO BID.	WILL BID SOON	\$ 77,475.20	45
NEW STORM DRAIN	847 HANARRY DR. DRAINAGE IMPROVEMENTS (PEW CREEK BASIN)	UP FOR REVIEW - PPI DESIGN COMPLETE ,READY TO BID.	WILL BID SOON	\$ 22,284.90	45
NEW STORM DRAIN	CREEKSIDE CROSSING DETEMTION POND REMEDIATION(201 & 210 LEIGH KAY DRIVE) (PEW CREEK)	UP FOR REVIEW - FOR DISCUSSION ON STORM WATER UTILITY MEETING. PPI BUSY WITH DESIGN	PPI BUSY WITH DESIGN		
NEW STORM DRAINSPIN CAST PROJECT	US29/SR8 - STORM DRAIN BOX CULVERT - REHABILITATION (SPIN CAST) PROJECT	UP FOR REVIEW - FOR DISCUSSION ON STORM WATER UTILITY MEETING(CAMERA WORK COMPLETE)	CITY & PRECISION PLANNING INC.		
NEW PROJECTS	CROSS HILL TRAIL (SWIMMING POOL)	SURVEY WAS DONE AND SEND TO CHUCK FOR REVIEW.			
NEW STORM DRAIN	PHILLIPS & SIMS STREET STORM DRAINAGE IMPROVEMENT PROJECT	UP FOR REVIEW - FOR DISCUSSION -STILL IN IN DESIGN PHASE BLUE LANDWORKS CONSULTING ENGINEERS& SURVEYORS)	5%		
NEW STORM DRAIN	OAK STREET STORM WATER SYSTEM	CCTV WORK COMPLETED - IN DESIGN PHASE	5%		
NEW STORM DRAIN	280 SARAH LANE STORM DRAIN IMPROVEMENT PROJECT- HANARRY POINTE(TENNIS COURT)	IN DESIGN PHASE -UP FOR REVIEW FOR DISCUSSION ON STORM WATER UTILITY MEETING(WAITING EASEMENTS)	5%		
NEW STORM DRAIN	LAWRENCEVILLE STORMWATER BASIN STUDY PROJECTS	UP FOR DISCUSSION WITH PPI ON 9/19/2020	10%		



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2.

AGENDA REPORT
MEETING: STORM WATER UTILITY BOARD
AGENDA CATEGORY: ACTION ITEM

Item: 241-301 Hanarry Drive [Hanarry Estates North Unit Four]

Department: Engineering/Storm Water

Date of Meeting: Wednesday, September 25, 2019

Fiscal Impact: \$236,700.00 from Storm Water Utility Capital Projects

Presented By: Johannes Louw

Action Requested: Authorize Staff to proceed with bid and present to Council for approval.

Summary: Replace 726' of 48" and 115' of 60" CMP that is rusted out with same sizes of HDPE. Includes 8 storm drain structures, C&G, asphalt pavement, sod, etc. See attached Cost Estimate. Funded by Storm Water Utility Capital Projects Fund.

Background: A few months back Staff replace a section of this system as an emergency. Afterward we had the pipe videoed. Video showed the entire system was badly rusted.

Attachments/Exhibits:
0508_001

CITY OF LAWRENCEVILLE
Stormwater Management Program
Storm water Complaint Form

PROJECT NAME: HANARRY DR. (NORTH) STORM SYSTEM REPLACEMENT PROJECT

INFO:

- This project was tabled previously and we were waiting the camera work to be completed.
- Camera work showed that the entire pipe system is about 75% rotten out.
- We confirm that there is a 10' Drainage Easement on the final plat.

Storm Drain Info:

60" CMP & 48" CMP PIPES.

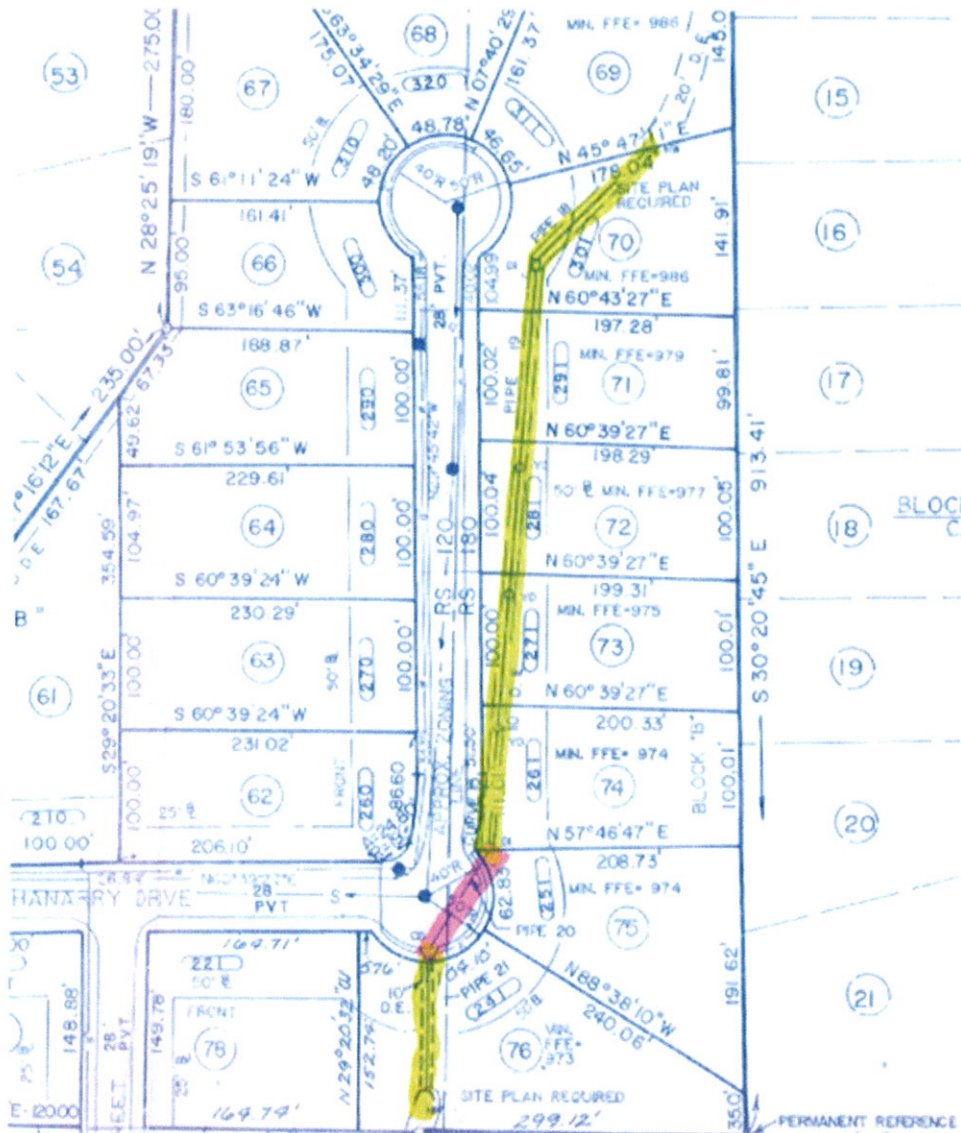
8 x type Doghouse D/I's ± 8'-12' deep.

2 Sink holes were repaired about 3-4 months ago.

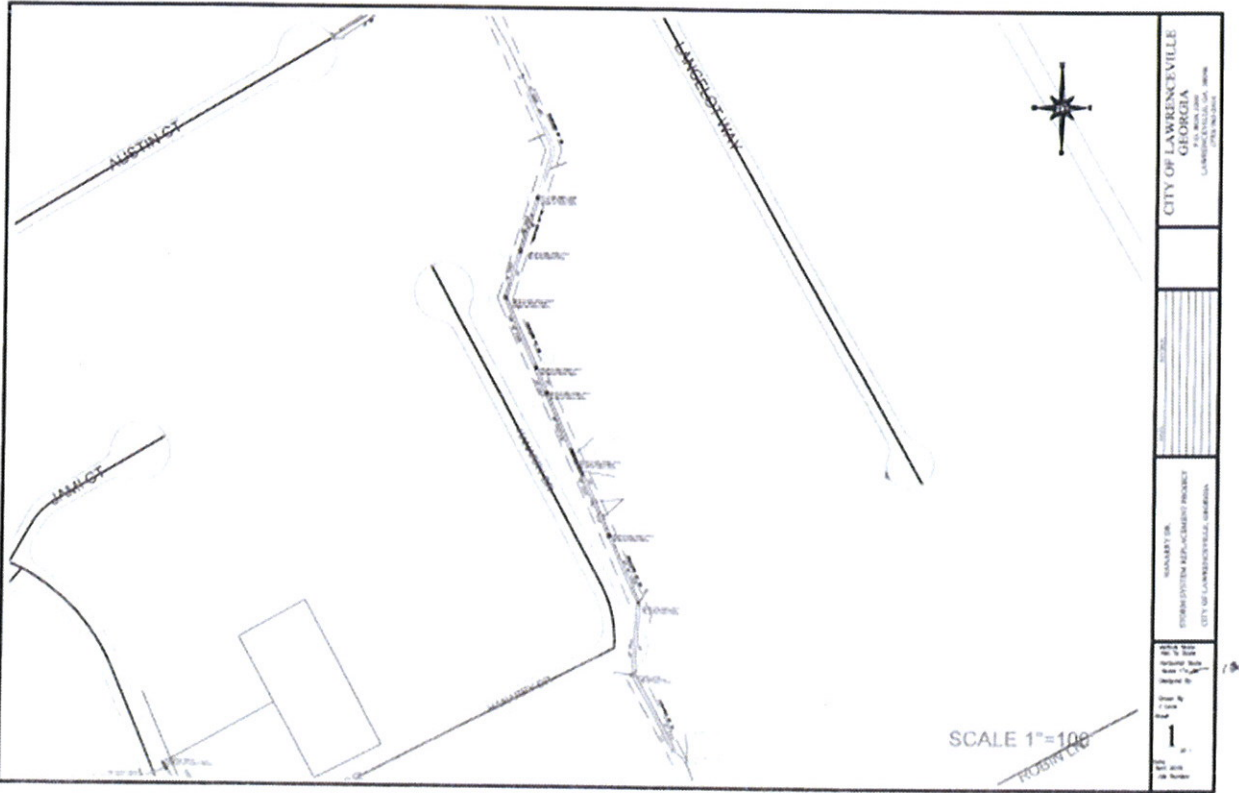
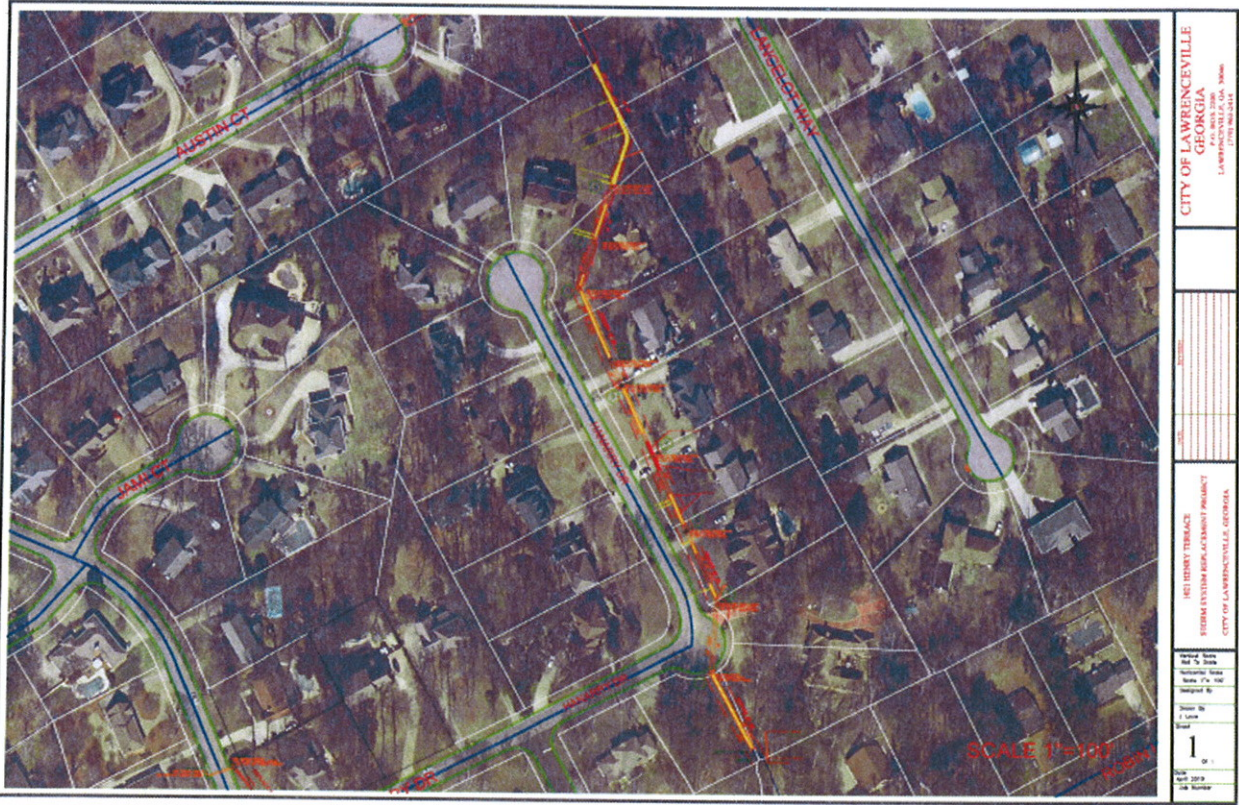
Comments:

- ± 726' of 48" CMP completely rusted out.
- ± 115' of 60" CMP completely rusted out.
- Headwall at the outlet is separated from the pipe 48" CMP
- Replace 8 x type Doghouse D/I 's with regular precast D/I's
- 48"RCP under the street is in Fair condition.
- We checked the subdivision plat and confirm that there is a 10' DE on the plat.
(See location and aerial map of the subdivision below.)
- All the existing 48" CMP pipes are completely rusted out at the.
- The headwall at the outlet end is in Fair condition but the upstream side needs to be reset.

PLAT:



Sketch drawings:



- To replace THE ENTIRE STORM SYSTEM THAT IS COMPLETELY ROTTEN OUT WIT HDPE PIPE.
- To replace $\pm 730'$ of CMP pipe.
- To replace $\pm 115'$ of CMP pipe '
- To replace all the type Doghouse D/I 's with regular precast D/I's.
- To Re-set the upstream Headwall.
- Re-grout all the existing drainage structures.
- To table this project and request for bids. (Project has been discussed at the STORM WATER UTILITY BOARD meeting on 9/25/2019

COST EST.

HANARRY DR. (NORTH) STORM SYSTEM REPLACEMENT PROJECT				CONTRACTOR	
ITEM #	DESCRIPTION	APPROX.		UNIT PRICE	TOTAL PRICE
1	Warranties & Bonds	1	LS	\$8,500.00	\$8,500.00
2	Mobilization	1	LS	\$3,500.00	\$3,500.00
3	Erosion Control	1	LS	\$2,442.00	\$2,442.00
4	Complete demolition of exist. Storm Drain Pipe System (48"- 60" pipes), all shrubbery, fences, sod, saw cut & asphalt removal, and remove & replace unsuitable material.	1	LS	\$49,675.00	\$49,675.00
5	Water Pumping	1	LS	\$2,200.00	\$2,200.00
6	Install complete 48" (HDPE) high density polyethylene pipe (incl. excavation, all tie-ins, shoring & bedding)	726	LF	\$115.00	\$83,490.00
7	Install complete 60" (HDPE) high density polyethylene pipe (incl. excavation, all tie-ins, shoring & bedding)	115	LF	\$65.00	\$7,475.00
8	Install complete 4" thick concrete driveway incl. Mesh	100	SY	\$65.00	\$6,500.00
9	Install complete D/I 8'-12' deep	8	EA	\$3,800.00	\$30,400.00
10	24" Curb & Gutter	60	LF	\$19.50	\$1,170.00
11	Re-Grout all the Storm Drain Structures	1	LS	\$3,000.00	\$3,000.00
12	Permanent grass/sod (include fertilizer & mulch)	1870	SY	\$9.00	\$16,830.00
	10% Contingencies				\$21,518.20
					\$236,700.20



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3.

AGENDA REPORT
MEETING: STORM WATER UTILITY BOARD
AGENDA CATEGORY: ACTION ITEM

Item: 1020 & 1021 Henry Terrace [Cramac Plantation]
Department: Engineering/Storm Water
Date of Meeting: Wednesday, September 25, 2019
Fiscal Impact: \$80,582.00 from Storm Water Utility Capital Fund
Presented By: Johannes Louw
Action Requested: Authorize staff to proceed with bid and present to Council for approval.

Summary: Replace existing rusted CMP with 136' HDPE, 40' RCP, and 110' HDPE; replace disturbed C&G, install sod, etc. See attached cost estimate.

Attachments/Exhibits:
0509_001

CITY OF LAWRENCEVILLE
Stormwater Management Program
Storm water Complaint Form

Date: 6/22/2019 Time: 8:15 AM

Complaint MR. Matt Jackson

Address: 1021 HENRY TERRACE

Phone: 678-458-5501

PROJECT NAME: 1021 HENRY TERRACE STORM DRAIN PROJECT.

Description of Complaint: Sinks Hole in yard behind Catch& J/Box.

"Please proceed with Design, Bid and Construction of "1021 HENRY TERRACE STORM DRAIN PROJECT"

Storm Drain Info:

36" CMP & 48" CMP PIPES.

2xD/Wing Catch basins ±7.1' deep.

1 x J/Box

2x Headwalls

Sink hole at the back of catch basin & at the J/Box

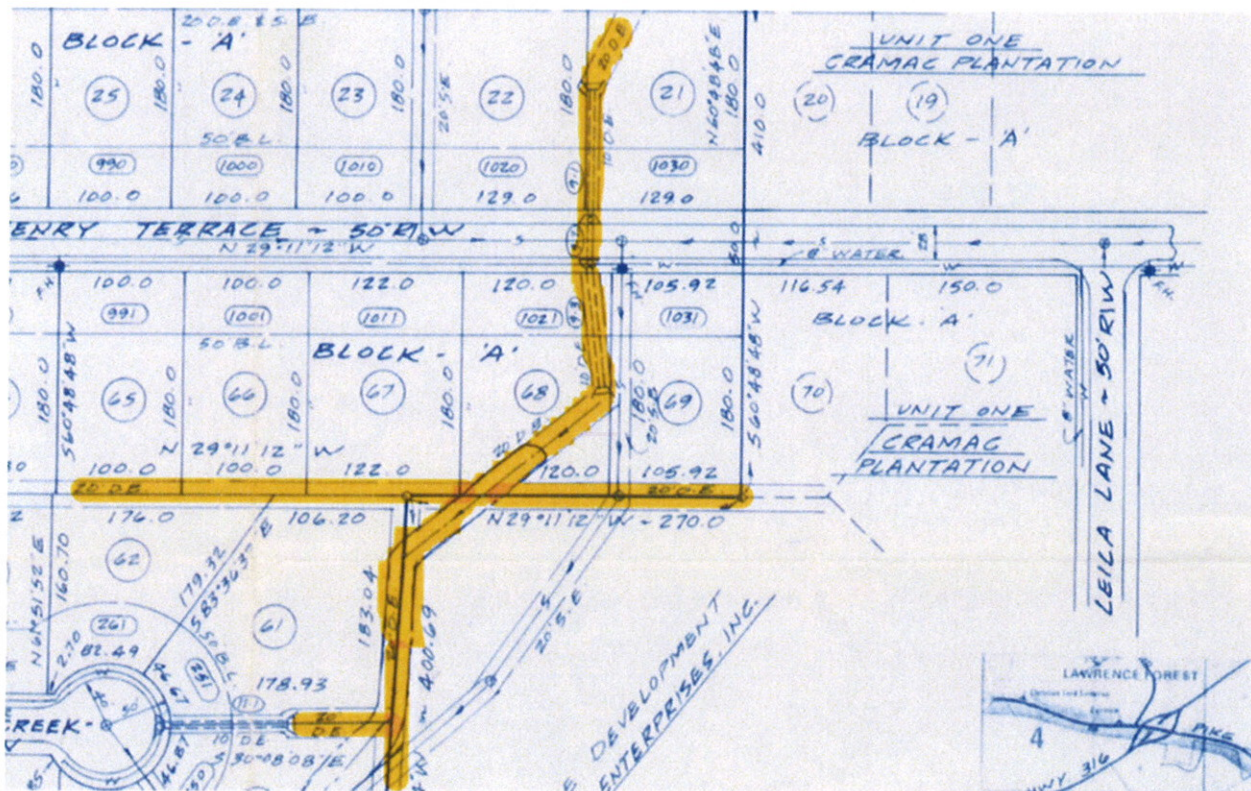
Comments:

- ± 140' of 36" CMP completely rusted out.
- ± 101' of 48" CMP completely rusted out.
- Headwall at the outlet is separated from the pipe 48" CMP
- 48" CMP pipe from J/B to outlet Headwall in fair condition.
- We checked the subdivision plat and confirm that there is a 10' & 20' DE drainage easement on the plat. (See location and aerial map of the subdivision below.)
- All the existing 36" CMP pipes are completely rusted out at the bottom AND separated from the structures including under the street.
- The 48" CMP pipe from the Catch Basin to the J/Box is completely rusted out at the bottom separated from the catch basin which caused the sinkholes.
- The headwall at the outlet end is separated from the 48" CMP and is eroded at the downstream side with no GAB.
- The 2 Catch basins is in fair condition and needed to be grouted on the inside.

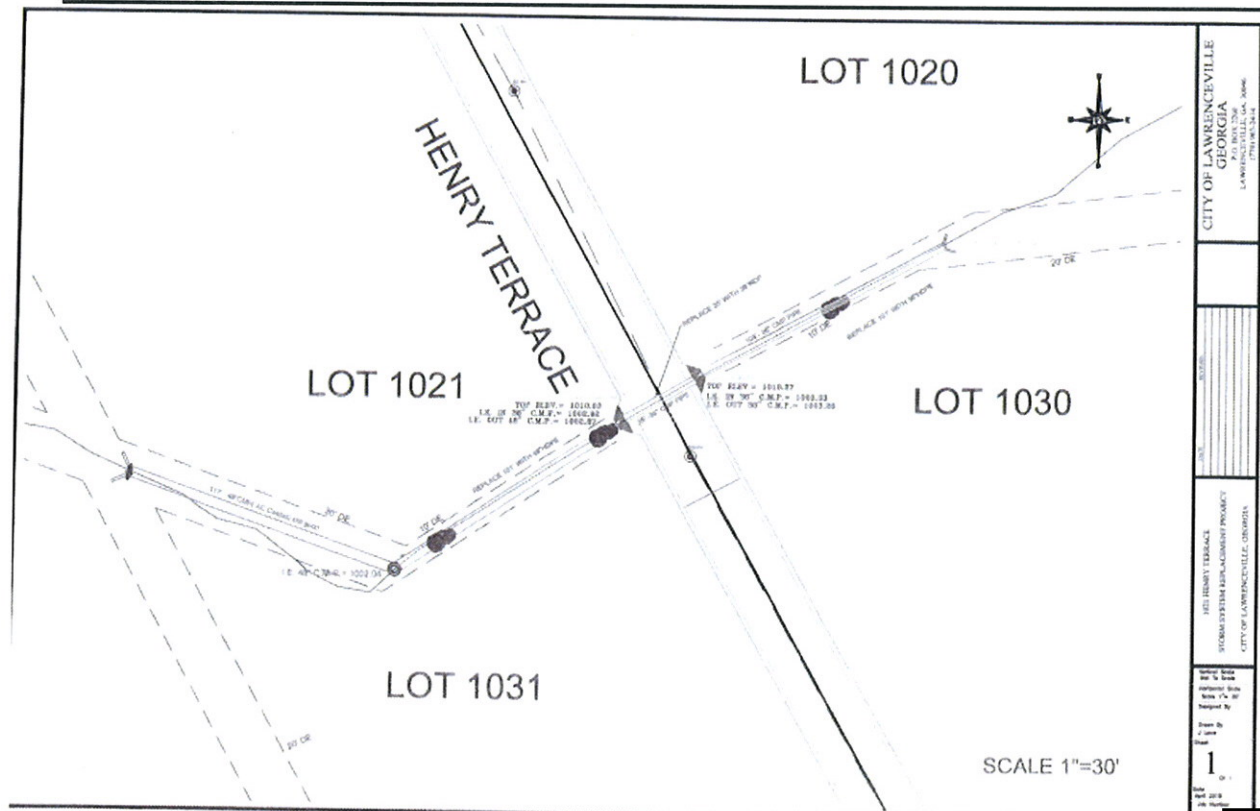
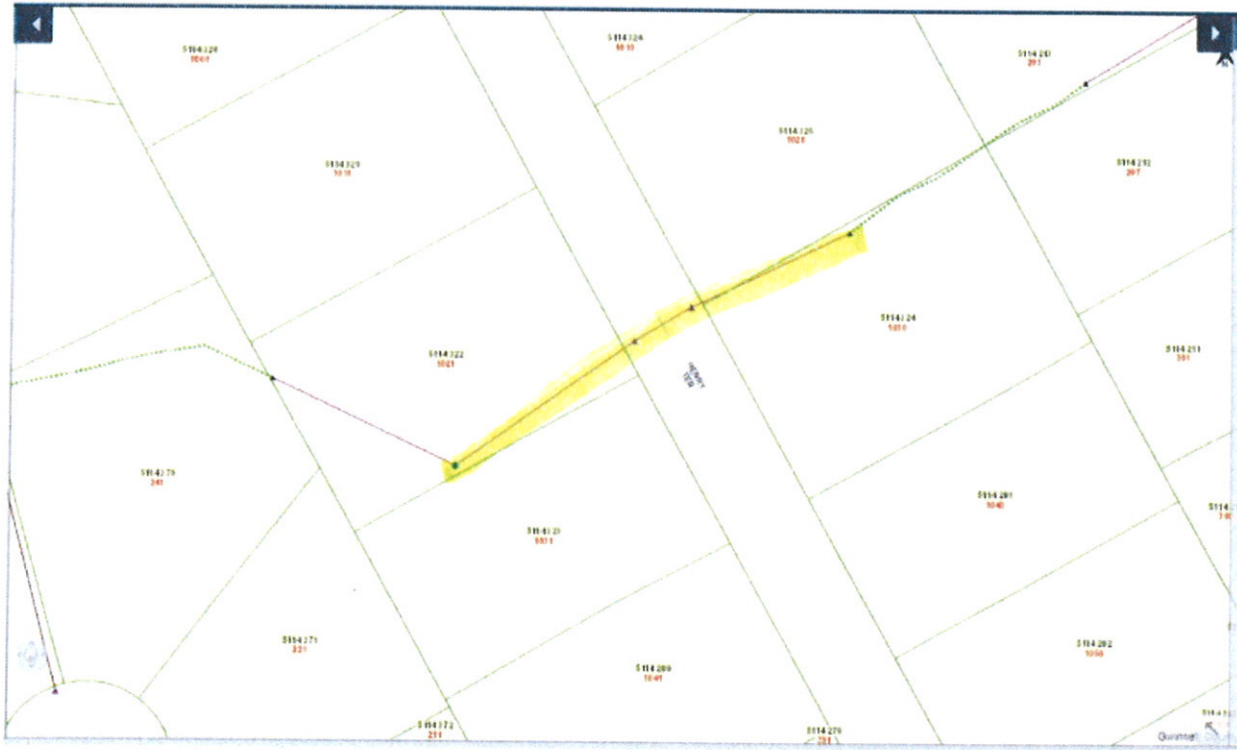
Assist City Engineer recommend:

- To replace all the rusted CMP pipes.
- Re-set the existing Headwall and install fresh GAB .
- Re-grout all the existing drainage structures.
- To table this project and request for bids. (Project has been discussed at the STORM WATER UTILITY BOARD meeting on **9/25/2019**)

PLAT



GIS MAP

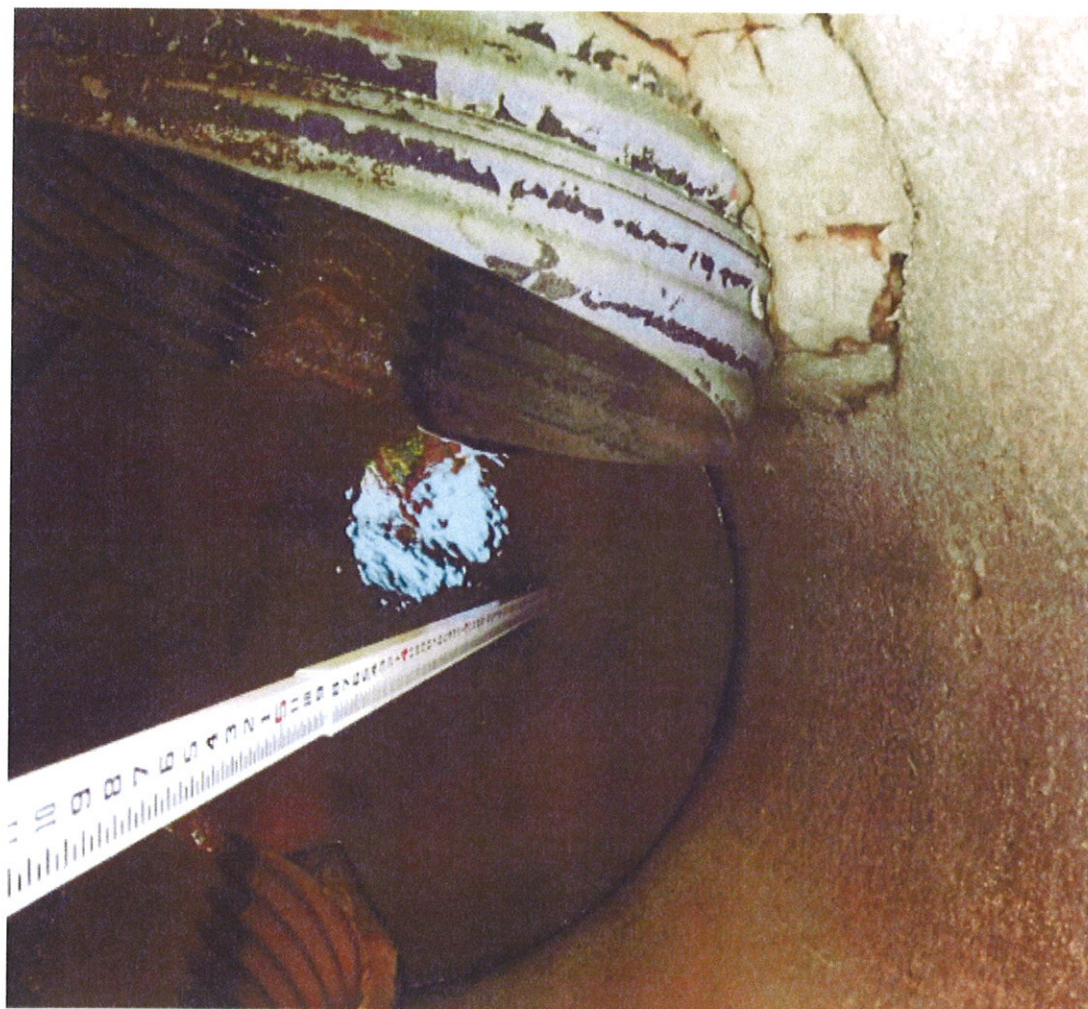




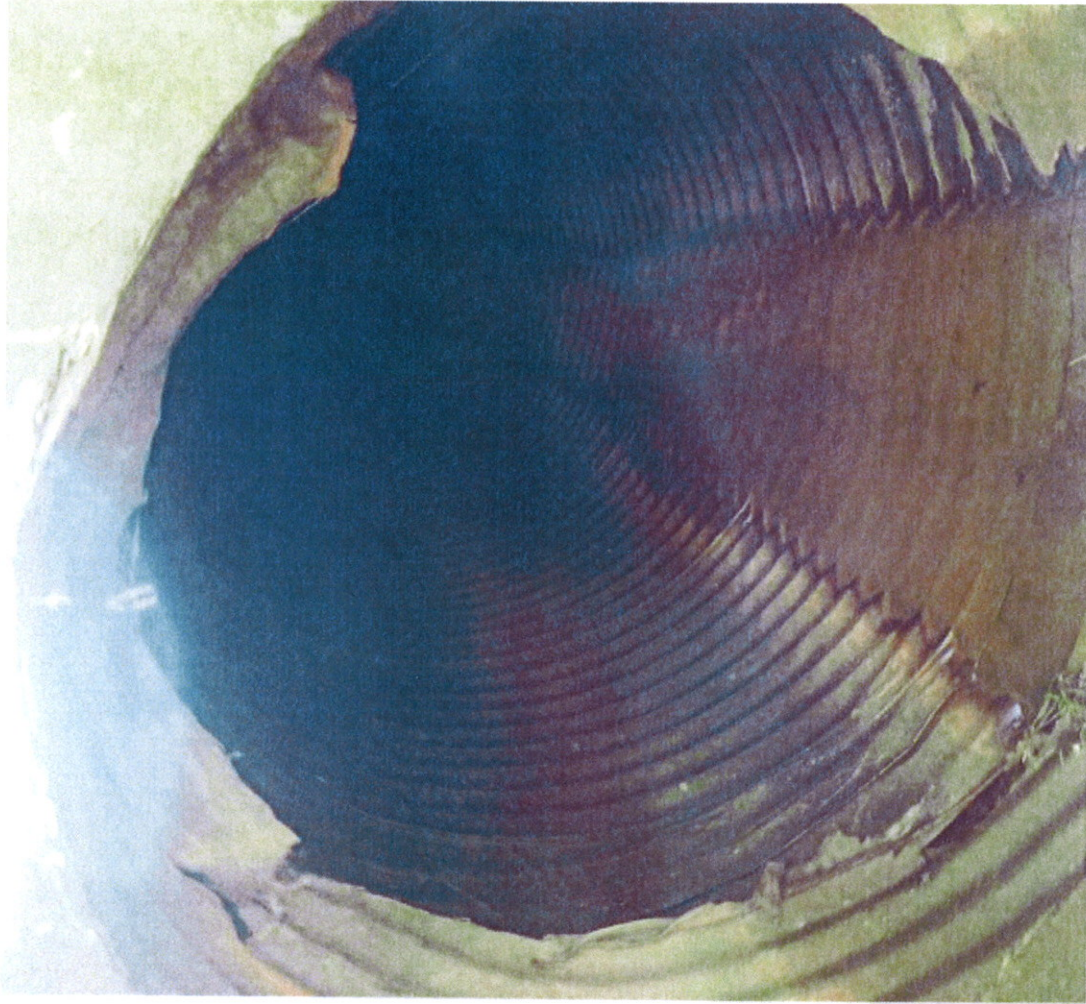
PICTURES TAKEN:















COST EST.

1021 HENRY TERRACE STORM DRAIN PROJECT				CONTRACTOR	
ITEM #	DESCRIPTION	APPROX.		UNIT PRICE	TOTAL PRICE
1	Warranties & Bonds	1	LS	\$8,500.00	\$8,500.00
2	Mobilization	1	LS	\$3,500.00	\$3,500.00
3	Erosion Control	1	LS	\$2,442.00	\$2,442.00
4	Complete demolition of exist. Storm Drain Pipe System (36"- 48" pipes), all shrubbery, fences, sod, saw cut & asphalt removal, and remove & replace unsuitable material.	1	LS	\$21,000.00	\$21,000.00
5	Water Pumping	1	LS	\$2,200.00	\$2,200.00
6	Install complete 36" (HDPE) high density polyethylene pipe (incl. excavation, all tie-ins, shoring & bedding)	106	LF	\$109.00	\$11,554.00
7	Install complete 36" (RCP) high density polyethylene pipe (incl. excavation, all tie-ins, shoring & bedding)	40	LF	\$148.00	\$5,920.00
8	Install complete 48" (HDPE) high density polyethylene pipe (incl. excavation, all tie-ins, shoring & bedding)	110	LF	\$65.00	\$7,150.00
9	24" Curb & Gutter	60	LF	\$19.50	\$1,170.00
10	RE - SET Existing headwall , Install freash GAB & RE-Groute	1	LS	\$2,500.00	\$2,500.00
11	Re-Grout all the Storm Drain Structures	1	LS	\$3,000.00	\$3,000.00
12	Permanent grass/sod (include fertilizer & mulch)	480	SY	\$9.00	\$4,320.00
	10% Contingencies				\$7,325.60
					\$80,581.60

Comments others:



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4.

AGENDA REPORT
MEETING: STORM WATER UTILITY BOARD
AGENDA CATEGORY: ACTION ITEM

Item: East Crogan/East Pike intersection storm drain repair

Department: Engineering/Storm Water

Date of Meeting: Wednesday, September 25, 2019

Fiscal Impact: To be determined by bid

Presented By: Johannes Louw

Action Requested: Authorize Staff to obtain bids for Spin Cast Repair and proceed with construction authorization

Summary: Culvert under East Crogan at its intersection with East Pike. System has been videoed by CCTV and confirmed to be repairable with spin cast. See attachments.

Attachments/Exhibits:
0506_001

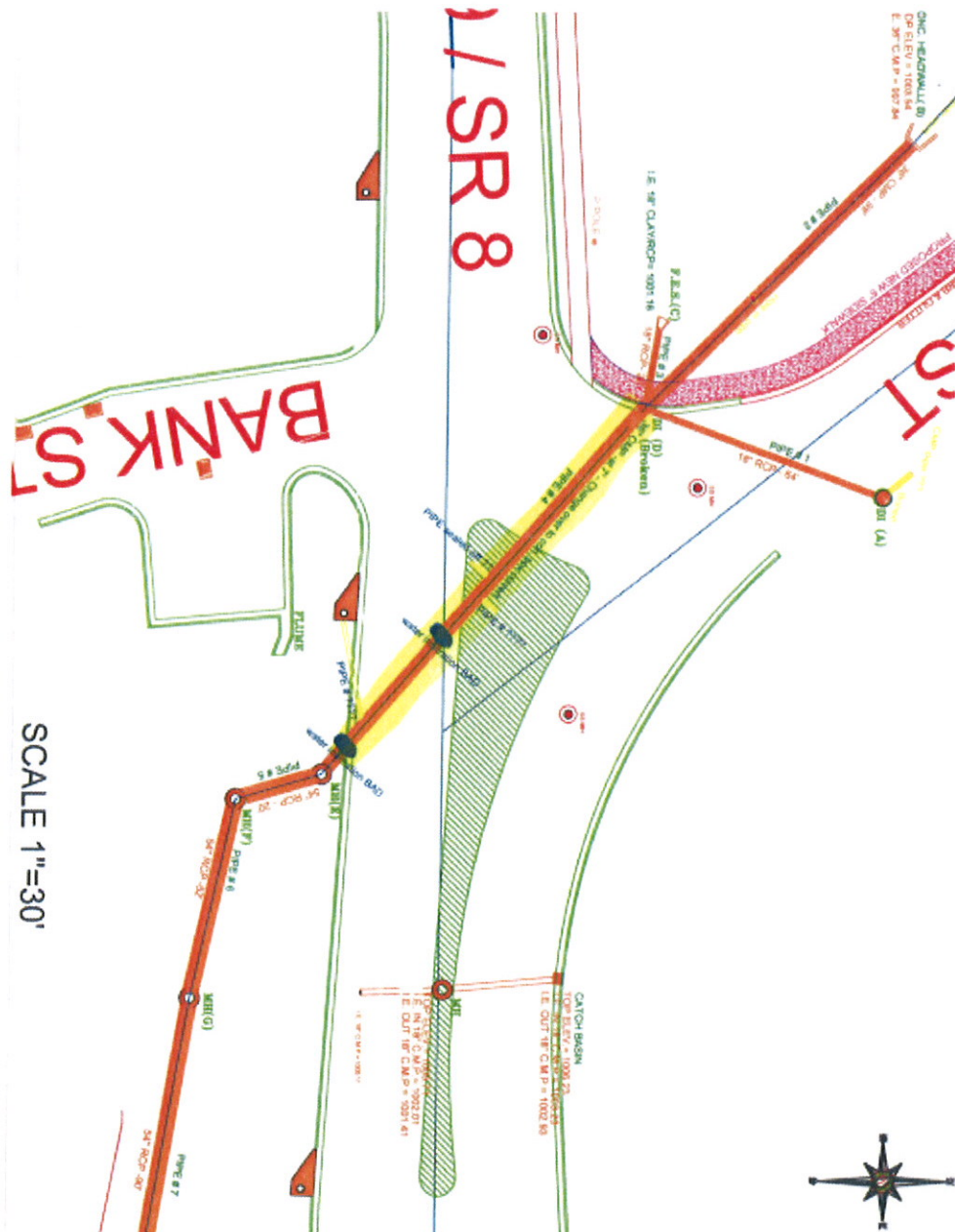
CITY OF LAWRENCEVILLE
Stormwater Management Program
Storm water Complaint Form

**PROJECT NAME: US29/SR8 - STORM DRAIN BOX CULVERT - REHABILITATION
(SPIN CAST) PROJECT**

INFO:

- This project was initiated after the storm drain system were camera to determine the condition of all the storm drain pipe systems in the area of the intersection US29/SR8 and East Pike street .
- All pipe are in Fair to good conditions accept PIPE #4 a 36" Asphalt coated pipe which changed over to a concrete box culvert??? (Do not know the size) but it seems to be a $\pm$ 5'high x 6' wide structure.
- I appears that the concrete box culvert was poured in place.
- Water squirts with moderate force though the side wall at 2 locations of this structure that is under US29/SR8.

Sketch drawings:



Assist City Engineer recommend:

- To make repairs ASAP to prevent further damage or potential sinkhole under US29/SR8.
 - To bid this project as a spin - cast project. (This might be the best option to fix this problem and also the cheaper option.)
 - The rest of the culverts seems in fair condition and should be good for another 10-20 years after the spin-cast rehabilitation is completed.
 - To table this project and request for bids. (Project has been discussed at the STORM WATER UTILITY BOARD meeting on 9/25/2019.)
-

COST EST. To be determined.



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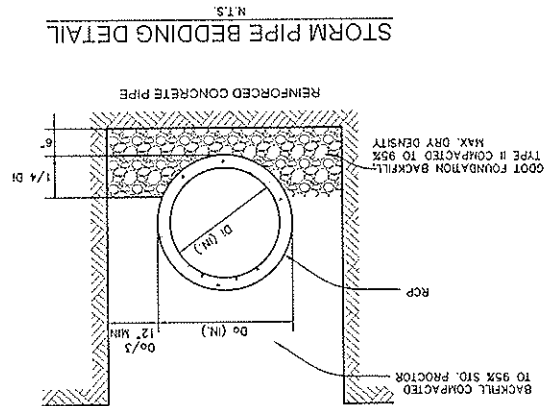
GEORGIA

AGENDA REPORT
MEETING: STORM WATER UTILITY BOARD
AGENDA CATEGORY: ACTION ITEM

Item: 856 & 857 Hanarry Drive [Hanarry Estates North Unit Three] Storm Drain Culvert replace
Department: Engineering/Storm Water
Date of Meeting: Wednesday, September 25, 2019
Fiscal Impact: Estimated at \$14,100.00
Presented By: Johannes Louw
Action Requested: Authorize staff to bid and construct

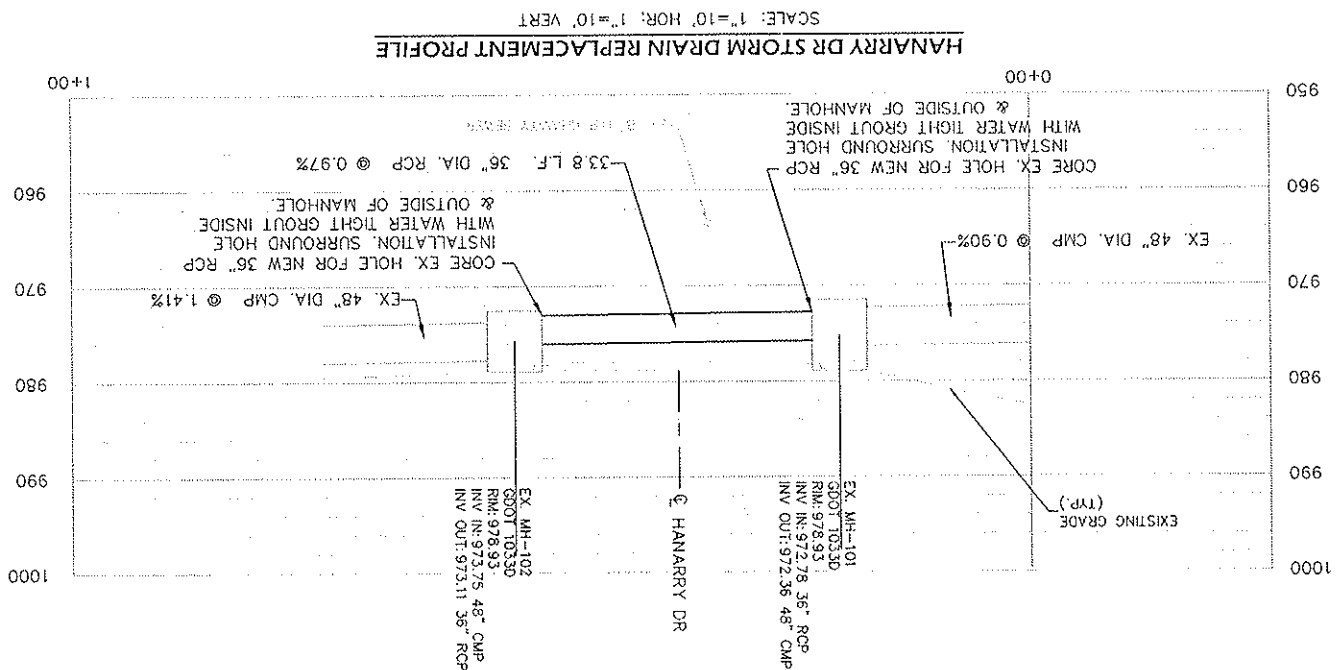
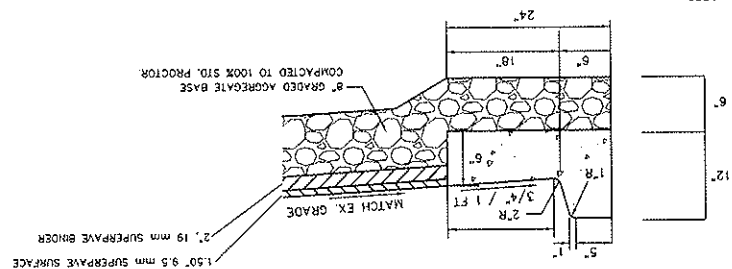
Summary: Replace 34' of 36" CMP with RCP, silt fence, sod, etc.

Attachments/Exhibits:
0514_001



24' CURB AND GUTTER/PAVEMENT RESTORATION DETAIL

- 1: EXPANSION JOINTS REQUIRED AT ALL STRUCTURES. CURS RETURNS AND PLACED EVERY MAXIMUM 50' O.C.
- 2: CONCRETE STRENGTH 3000 P.S.I
- 3: COST FOR PAVING AND CURB & GUTTER RESTORATION SHALL BE INCLUDED IN THE UNIT PRICE OF THE PIPE. NO SEPARATE PAYMENT SHALL BE MADE FOR PAVING BASE MATERIAL (GAB), ASPHALT SURFACE, ASPHALT SURFACE BINDER, AND CURB & GUTTER.



DESIGN REVIEW NOTE:
1. DISCUSS CURB RESTORATION (EX. ROLL CURB VS. STANDARD TYPE II)
2. TRAFFIC CONTROL/CONSTRUCTION SEQUENCING MEASURES

[illegible]

DRAINAGE PLAN & PROFILE		SHEET TITLE	
DESIGN DW	DRAWN DW	CHECKED	

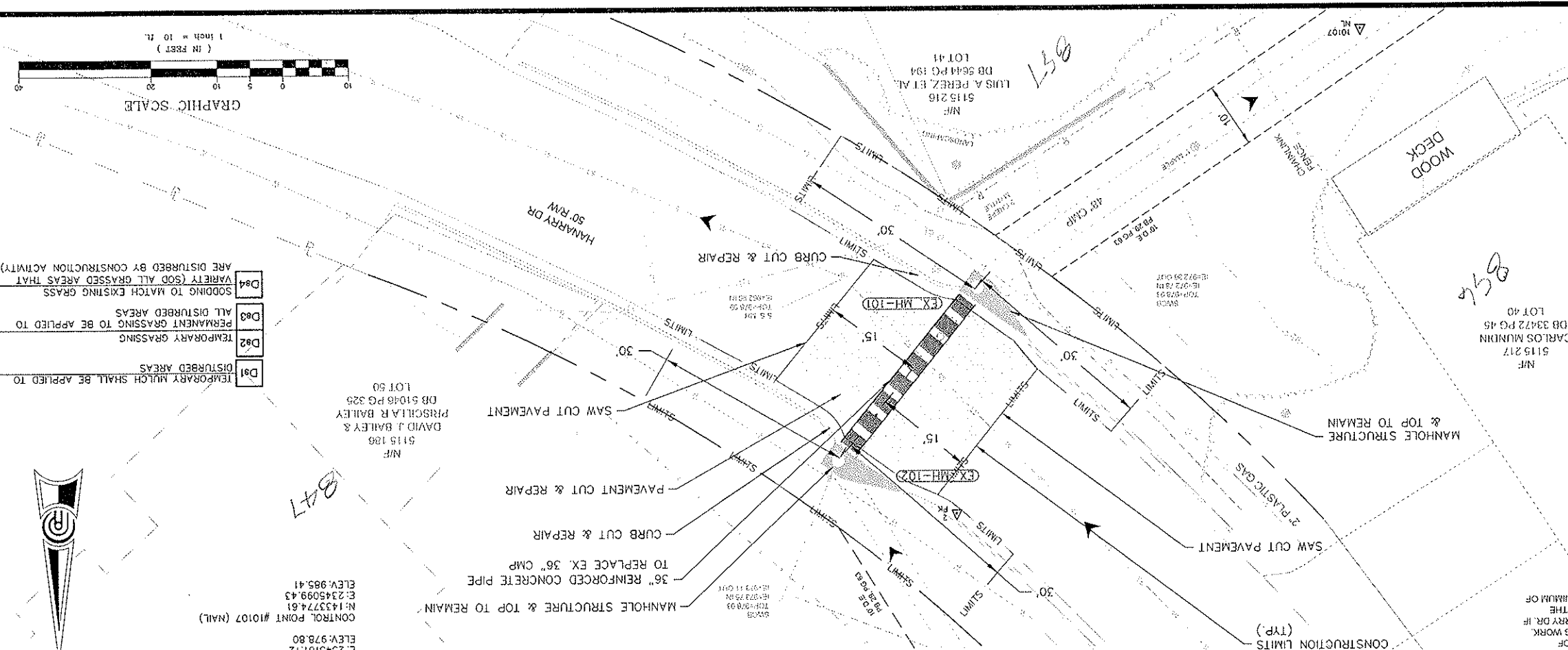
HANARRY DR
DRAINAGE
IMPROVEMENTS
(PEW CREEK BASIN)



planners • engineers • architects • surveyors

400 Pike Boulevard, Lawrenceville, Ga 30046
770-968-8000

STAMP



Preliminary Opinion of Probable Construction Costs

Project Description: Hannary Dr Drainage Improvements

Design Phase: 60% Design

By: Precision Planning, Inc.

856' 857
HANNARY DR

Item Code	Description	Units	Est. Quantity	Unit Price	Item Total
150-1000	Traffic Control	LS	1	\$3,000.0	\$3,000
163-0232	Temporary Grassing (Ds2)	SY	250	\$1.0	\$250
163-0240	Mulch (Ds1)	TN	1	\$127.8	\$128
205-0002	Borrow Excav., Incl. Matl. (Type I)	CY	25	\$20.0	\$500
207-0203	Foundation Backfill Material, Type II	CY	15	\$66.2	\$993
550-1480	Storm Drain Pipe, 36 Inch, H 1-10, RCP	LF	34	\$130.0	\$4,420
643-8200	Barrier Fence (Orange), 4 Ft	LF	280	\$2.0	\$560
700-9300	Sod	SY	150	\$10.0	\$1,500
	Warranties & Bonds (3% of total construction cost items)	LS	1	\$340.5	\$341
	Mobilization (5% of total construction cost items)	LS	1	\$567.5	\$568

Subtotal: \$12,259

15% Contingency \$1,840

Total: \$14,099

Note:

- Unit prices created from the most recent GDOT Pay Item Index.
- Paving and curb & gutter restoration is included in the unit price for 550-1480, Storm Drain Pipe.

TO BE REVISED



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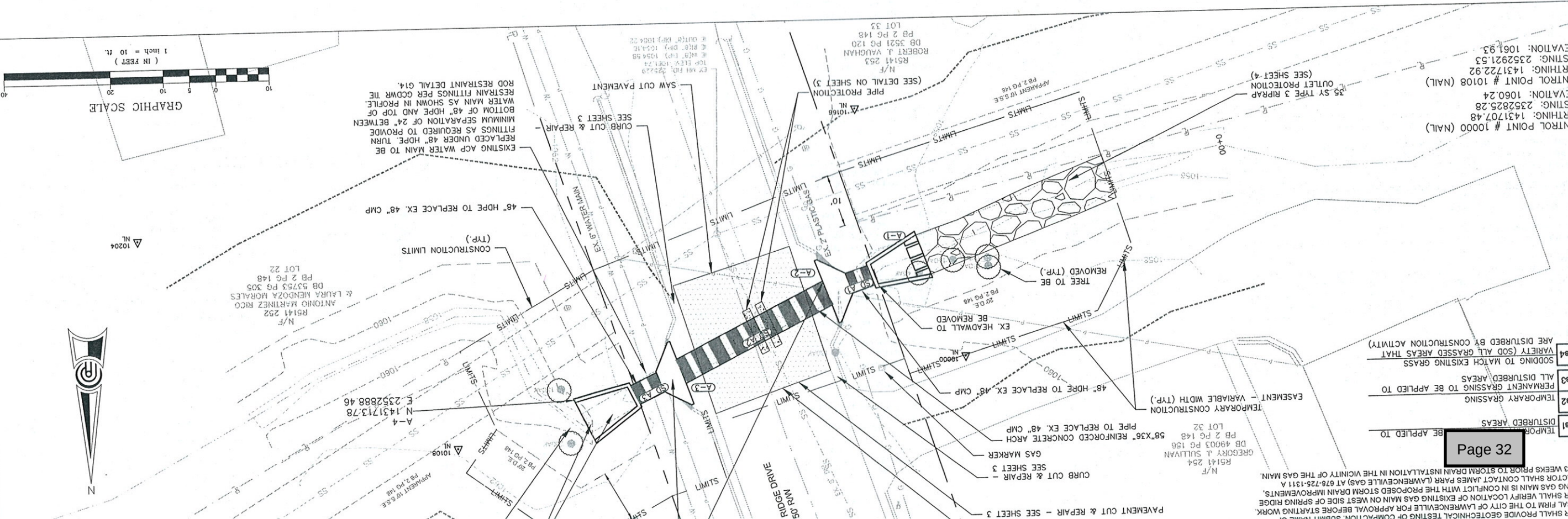
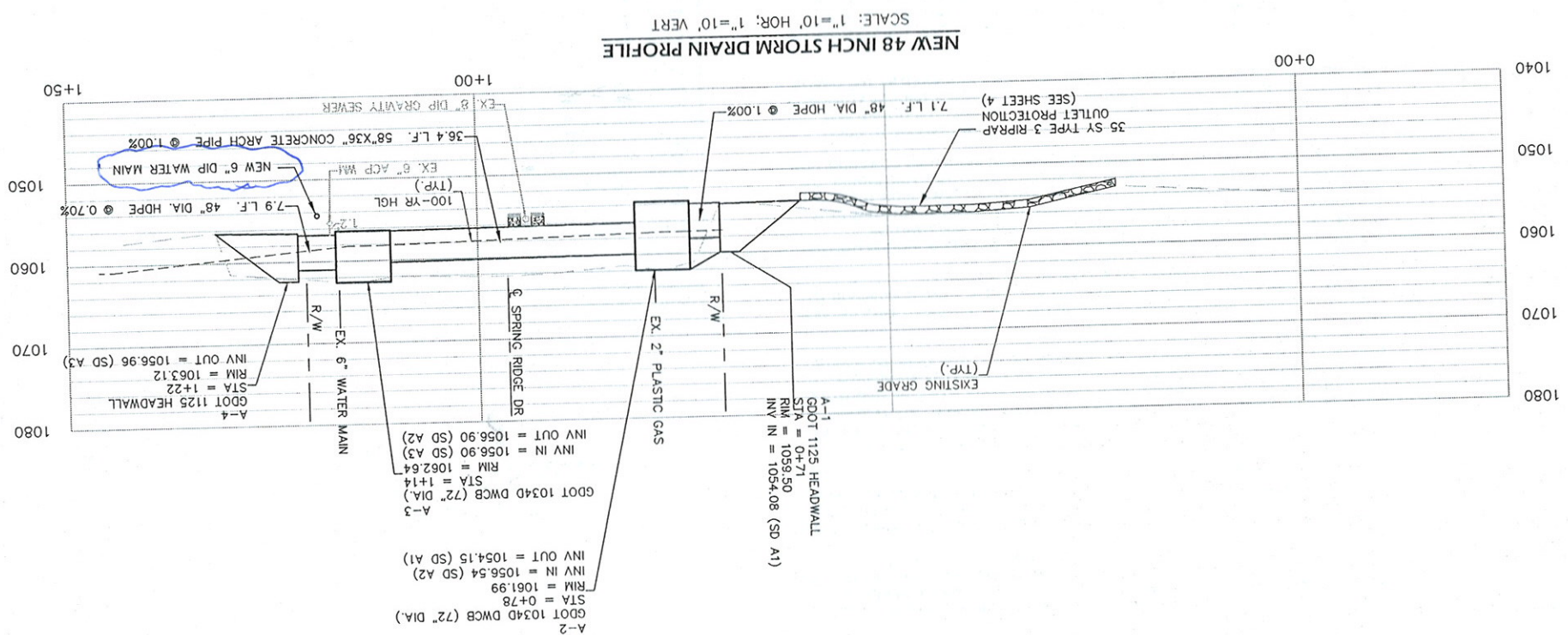
GEORGIA

AGENDA REPORT
MEETING: STORM WATER UTILITY BOARD
AGENDA CATEGORY: ACTION ITEM

Item: 333 & 334 Spring Ridge Drive [Forest Hills]
Department: Engineering/Storm Water
Date of Meeting: Wednesday, September 25, 2019
Fiscal Impact: Estimated at \$75,000.00 funded from Storm Water Capital
Presented By: Johannes Louw
Action Requested: Authorize Staff to proceed with bid and present to Council for approval

Summary: Existing culvert is rusted out. Plan to replace with 37' of 58"x36" RC Arch Pipe; 15' of 48' HDPE; 2 catch basins; required C&G; etc. Existing City water line could be impacted. It will be lowered as required. Gwinnett DWR sanitary sewer may be impacted. It will be protected by installing two concrete support structures under the Arch Pipe. See attachments.

Attachments/Exhibits:
0512_001



Mike
Bowie

DATE: 09/05/19		NO. DESCRIPTION: A ISSUED FOR REVIEW	
PROJECT NO. E19018			
DESIGN: DW		DRAWN: DW	
CHECKED: DW			
RELEASE			

DRainage PLAN & PROFILE

SHEET TITLE

SPRING RIDGE DR DRAINAGE IMPROVEMENTS (PEW CREEK BASIN)

PRECISION Planning Inc.
planners • engineers • architects • surveyors
400 Pike Boulevard, Lawrenceville, GA 30046
770.338.8000 • www.ppi.us

STAMP

Preliminary Opinion of Probable Construction Costs

Project Description: Spring Ridge Rd Drainage Improvements

Design Phase: 100% Design

By: Precision Planning, Inc.

333.834
SPRING RIDGE

Item Code	Description	Units	Est. Quantity	Unit Price	Item Total
150-1000	Traffic Control	LS	1	\$3,000.0	\$3,000
163-0232	Temporary Grassing (Ds2)	SY	970	\$1.0	\$970
163-0240	Mulch (Ds1)	TN	1.0	\$127.8	\$128
206-0002	Borrow Excav., Incl. Matl. (Type I)	CY	40	\$20.0	\$800
207-0203	Foundation Backfill Material, Type II	CY	30	\$66.2	\$1,986
210-0100	Grading Complete	LS	1	\$5,000.0	\$5,000
500-3200	Class B Concrete	CY	0.5	\$500.0	\$250
500-3800	Class A Concrete, Incl. Reinforcing Steel, GDOT 1125	CY	14	\$1,255.00	\$17,156
550-1480	Storm Drain Pipe, 58"x36", H 1-10, Reinforced Conc. Arch Pipe	LF	37	\$180.0	\$6,660
550-1480	Storm Drain Pipe, 48 Inch, H 1-11, HDPE	LF	15	\$130.0	\$1,950
603-2180	Stn Dumped Rip Rap, Tp 3, 12 Inch	SY	35	\$60.0	\$2,100
643-8200	Barrier Fence (Orange), 4 Ft	LF	330	\$2.0	\$660
668-1200	Catch Basin, GP 2, GDOT 1034D	EA	2	6,370.0	\$12,740
700-9300	Sod	SY	300	\$10.0	\$3,000
	Ductile Iron Pipe 6" DIP	LF	30	\$100.0	\$3,000
	Warranties & Bonds (3% of total construction cost items)	LS	1	\$1,781.99	\$1,782
	Mobilization (5% of total construction cost items)	LS	1	\$2,970.0	\$2,970

Subtotal: \$64,152

15% Contingency \$9,630

Total: \$73,782

Note:

- Unit prices created from the most recent GDOT Pay Item Index.
- Paving and curb & gutter restoration is included in the unit price for 550-1480, Storm Drain Pipe.



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7.

AGENDA REPORT
MEETING: STORM WATER UTILITY BOARD
AGENDA CATEGORY: ACTION ITEM

Item: 520 Carithers Road Culvert Replacement

Department: Engineering/Storm Water

Date of Meeting: Wednesday, September 25, 2019

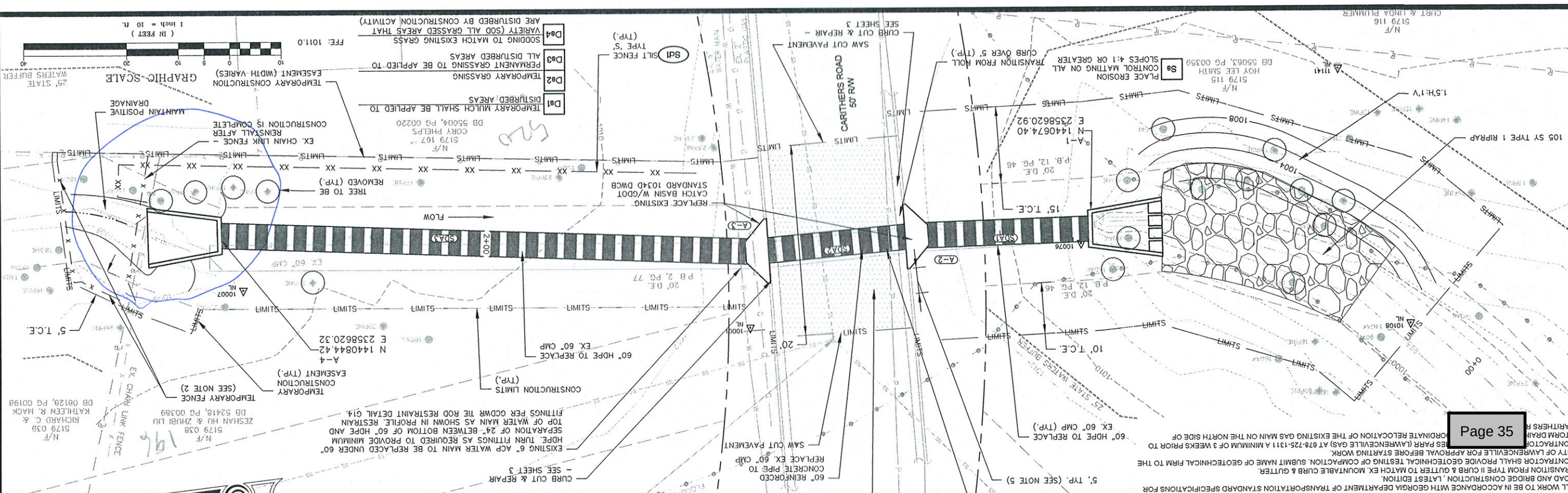
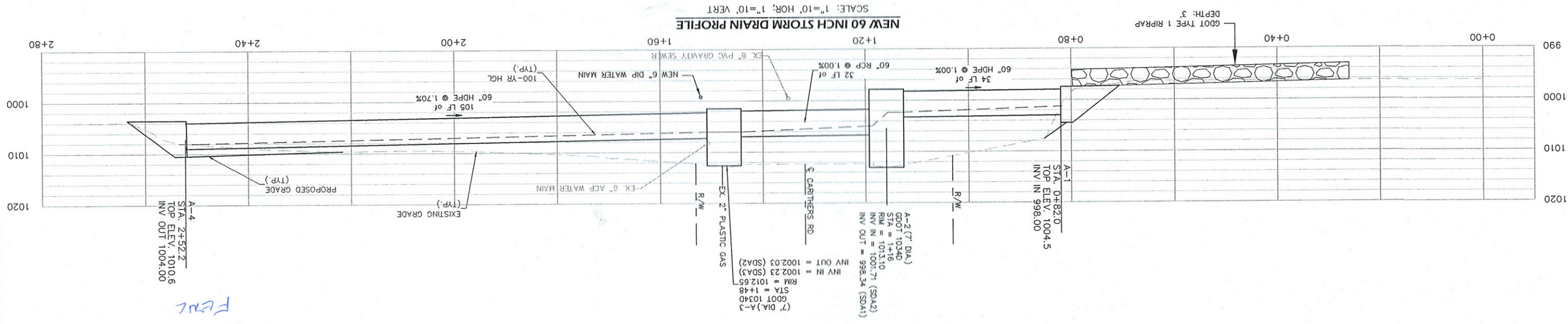
Fiscal Impact: Estimated \$153,000.00

Presented By: Johannes Louw

Action Requested: Authorize Staff to obtain bids and to present to Council for approval

Summary: Install 128' of 60" HDPE and 32' of 60" RCP; adjust existing City water main; sod, etc.

Attachments/Exhibits:
0515_001



CONTROL POINT # 10001 (NAIL)
NORTHING: 1440741.07
EASTING: 2358601.87
ELEVATION: 1012.73
CONTROL POINT # 10007 (NAIL)
NORTHING: 1440839.46
EASTING: 2358609.56
ELEVATION: 1009.32

DATE	NO.	DESCRIPTION
09/06/19	A	ISSUED FOR REVIEW

DESIGN	DRAWN	CHECKED
DW	DW	

DRAINAGE PLAN & PROFILE
SHEET TITLE
CARITHERS RD
DRAINAGE
IMPROVEMENTS
(SHOAL CREEK BASIN)

PRECISION
Planning Inc.
planners • engineers • architects • surveyors
400 Pike Boulevard, Lawrenceville, GA 30046
770.338.8000 • www.ppi.us

STAMP

520 CARITHERS
ROAD

7.

Preliminary Opinion of Probable Construction Costs

Project Description: Carithers Road Drainage Improvements

Design Phase: 100% Design

By: Precision Planning, Inc.

Item Code	Description	Units	Est. Quantity	Unit Price	Item Total
150-1000	Traffic Control	LS	1	\$3,000.00	\$3,000
163-0232	Temporary Grassing (Ds2)	SY	1,500.0	\$1.00	\$1,500
163-0240	Mulch (Ds1)	TN	1.00	\$127.80	\$128
171-0030	Temporary Silt Fence Type C (Sd1-S)	LF	140	\$3.50	\$490
207-0203	Foundation Backfill Material, Type II	CY	250	\$70.00	\$17,500
210-0100	Grading Complete	LS	1	\$10,000.00	\$10,000
500-3800	Class A Concrete, Incl. Reinforcing Steel, GDOT 1125	CY	14	\$1,255.00	\$17,156
550-1600	Storm Drain Pipe, 60 Inch, H 1-10, RCP	LF	32	\$240.00	\$7,680
550-1600	Storm Drain Pipe, 60 Inch, H 1-10, HDPE	LF	138	\$150.00	\$20,700
603-2012	Stn Dumped Rip Rap, Tp 1, 36" Inch Deep	SY	300	\$60.00	\$18,000
643-1132	Ch Lk Fence, Zc Coat, 5 Ft, 11 Ga	LF	40	\$40.00	\$1,600
643-8200	Barrier Fence (Orange), 4 Ft	LF	600	\$2.00	\$1,200
668-1200	Catch Basin, GP 2, GDOT 1034D	EA	2	7,100	\$14,200
700-6910	Permanent Grassing	AC	0.1	\$945.00	\$95
700-9300	Sod	SY	525	\$10.00	\$5,250
716-2000	Erosion Control Mats, Slopes	SY	125	\$1.20	\$150
	Ductile Iron Pipe	LF	40	\$100.00	\$4,000
	Warranties & Bonds (3% of total construction cost items)	LS	1	\$3,679.44	\$3,679
	Mobilization (5% of total construction cost items)	LS	1	\$6,316.38	\$6,316

Subtotal: \$132,644

15% Contingency \$19,900

Total: \$152,544

Note:

1. Unit prices created from the most recent GDOT Pay Item Index.
2. Paving and curb & gutter restoration is included in the unit price for 550-1600, Storm Drain Pipe.