



Finance Committee Meeting

Commission Chamber- 9/13/2022- 1:15 PM

FINANCE

1. Motion to **approve** minutes of the Finance Committee August 30, 2022.
2. Motion to receive as information a presentation on the Stormwater Fee Program.

[Attachments](#)

[Attachments](#)

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**Finance Committee Meeting
9/13/2022 1:15 PM
Minutes**

Department: Clerk of Commission

Presenter: Clerk of Commission

Caption: Motion to **approve** minutes of the Finance Committee August 30, 2022.

Background:

Analysis:

Financial Impact:

Alternatives:

Recommendation:

**Funds are Available in
the Following
Accounts:**

REVIEWED AND APPROVED BY:



**Finance Committee Meeting
9/13/2022 1:15 PM
Storm Water Presentation**

Department:	Engineering
Presenter:	Dr. Hameed Malik
Caption:	Motion to receive as information a presentation on the Stormwater Fee Program.
Background:	The stormwater fund is audited annually as part of the City's annual financial audit. However operational details (how the program operates) is not analyzed within the annual audit. The Stormwater Fee Program transactions and activities undergo the same procedures of all programs within the City of Augusta Government. Every expense (salaries, services, equipment, etc.) that is charged to the Stormwater Program is subject to the same procurement, budget approval and payroll rules and procedures.
Analysis:	
Financial Impact:	No financial impact related to this agenda item
Alternatives:	Do not approve the motion to receive as information, an update on the City of Augusta's Stormwater Fee Program.
Recommendation:	Motion to receive as information a presentation on the Stormwater Fee Program.
Funds are Available in the Following Accounts:	Not applicable to this motion.

REVIEWED AND APPROVED BY:

Clerk of Commission

Cover Memo

Item # 2

AUGUSTA, GA



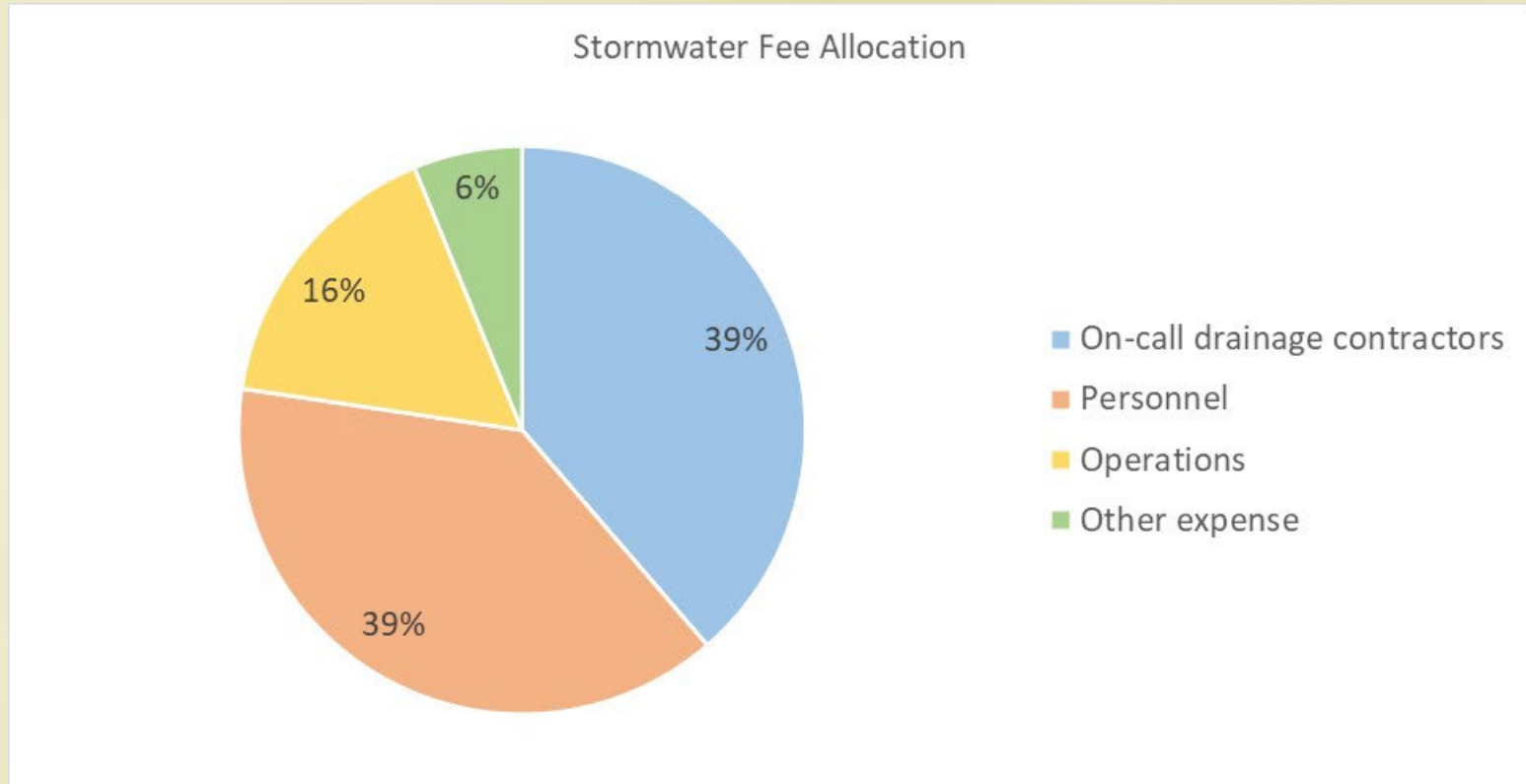
2021 Update on Stormwater Utility

Item # 2

Storm Water Utility Cash Flow Analysis

	Year	Plan	Actual	Shortfall
	2016	\$15,264,691	\$10,917,101	-\$4,347,590
	2017	\$15,264,691	\$13,240,806	-\$2,023,885
	2018	\$15,264,691	\$13,214,112	-\$2,050,579
	2019	\$15,264,691	\$13,228,735	-\$2,035,956
	2020	\$15,264,691	\$12,800,279	-\$2,464,412
	2021	\$15,264,691	\$13,638,701	-\$1,625,990
	TOTAL=	\$91,588,146	\$77,039,734	-\$14,548,412

2021 Stormwater Fee Allocation



On-call drainage contractors	\$	5,234,850
Personnel	\$	5,233,500
Operations	\$	2,226,830
Other expense	\$	840,000
Total Expenses	\$	13,535,180

2021 Stormwater Fee Allocation

Stormwater Fee Funded Contracted Services

Budget Description	Service Type	Budget Acct #	Service Type Budget
	On Call Vegetation and ROW Mowing	581-044320-52.11120	\$3,396,720.00
Stormwater Utility Fee Budget			
Contractual Services	On Call Tree Removal	581-044320-52.11120	\$70,000.00
	On Call Augusta Owned Pond Maintenance	581-044320-52.11120	\$650,000.00
	On Call VAC-CON Services	581-044320-52.11120	\$25,000.00
	Engineering Services	581-044320-52.11120	\$500,000.00
	Street Sweeping	581-044320-52.11120	\$600,000.00
	Unforeseen Services	581-044320-52.11120	\$200,000
	Total		\$5,441,720.00

Structures

Total Assets	40,546
Assets on EPD Permit	12,180
Pending Assets	28,366

Pipes

Total Assets	34,909	614.83 mi
Assets on EPD Permit	26,479	475.83 mi
Pending Assets	8,430	139.00 mi

Ditches (not incl. Streams)

Total Assets	4,795	224.61 mi
Assets on EPD Permit	1,934	81.40 mi
Pending Assets	2,861	143.21 mi

Ponds

Total Assets	1426	5.05 mi ²	3232.21 ac
Assets on EPD Permit	168	0.52 mi ²	334.82 ac
Pending Assets	1,109	4.53 mi ²	2897.39 ac

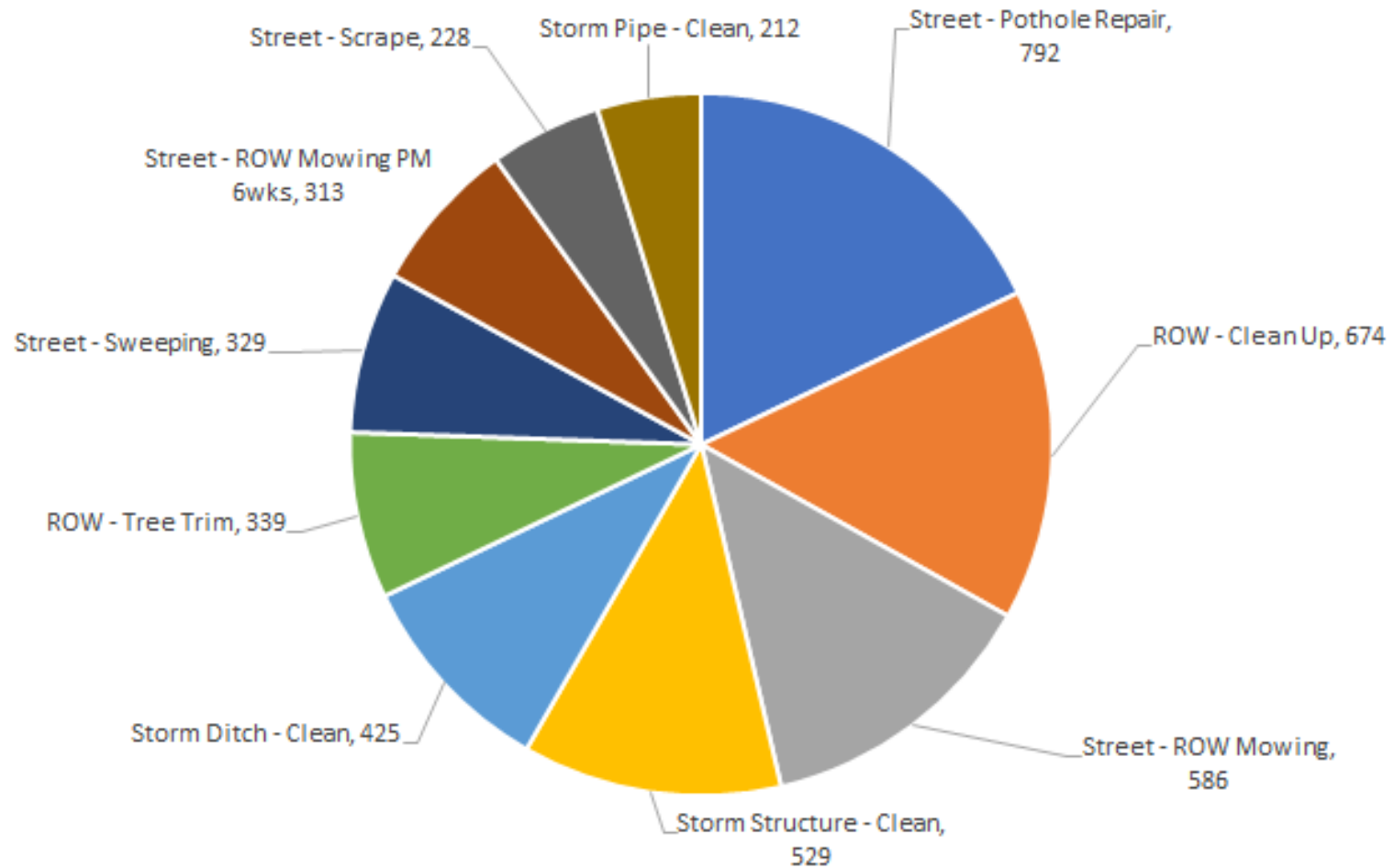
Outfalls

Total Assets	(Count Pending)
Assets on EPD Permit	304 (Verification Pending)
Pending Assets	(Count Pending)

2021 On-call ROW and drainage and maintenance

6,149 Work orders fulfilled

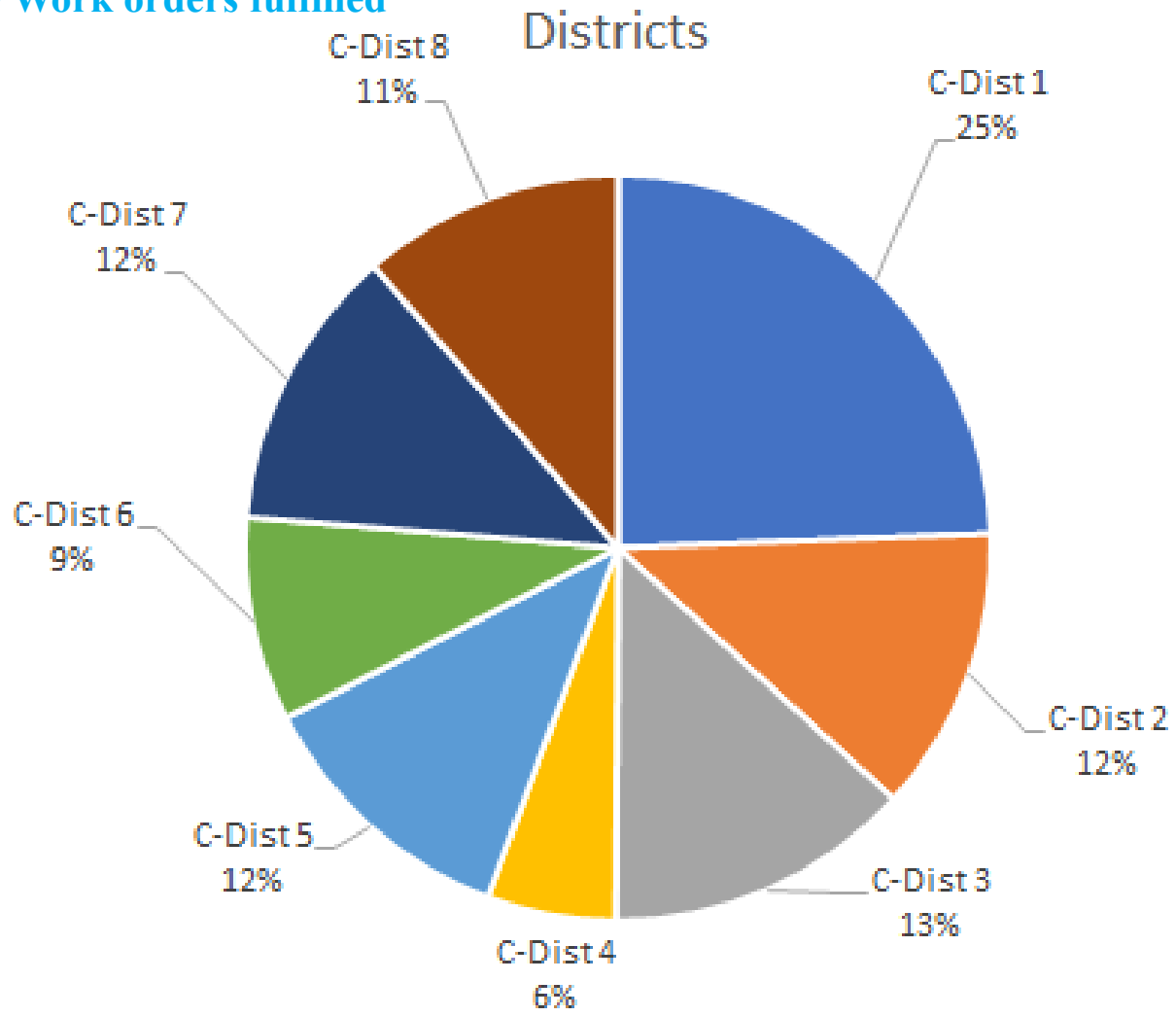
Top 10 Work order requests



Item # 2

2021 On-call ROW and drainage and maintenance

6,149 Work orders fulfilled

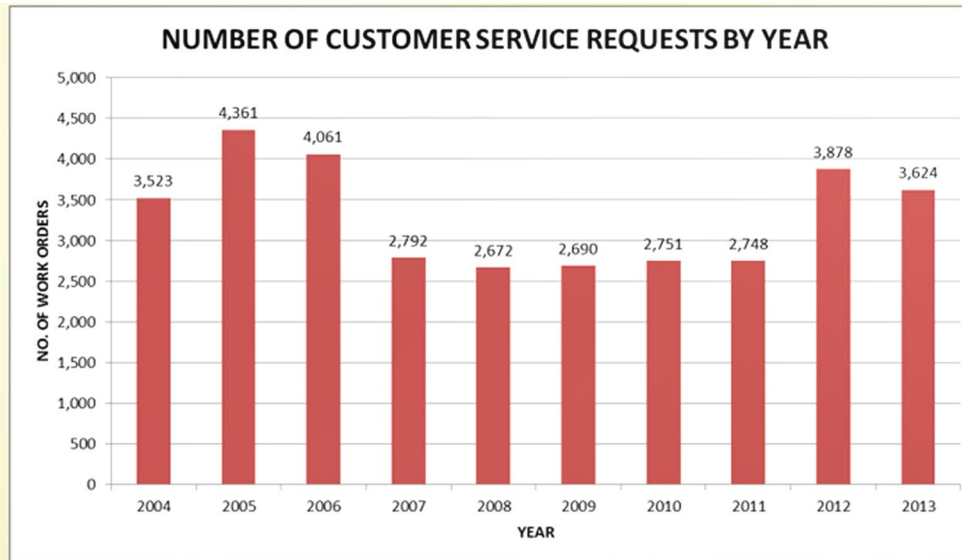


Level of Service:

Service requests-Work orders

6,149 WO
Fulfilled in 2021

Prior to SW Utility



- Work Orders are Reactive.
- The Department has Completed 68% of the Work Orders with 3% being completed by Contractors.
- The Goal of the Program is to become Proactive.
- Larger Projects Require Contractors and no Funds are Available. This is included in the 32% of Requests that are not Completed.

Item # 2

1 / 116 56.8%



Request for Proposals

RFP Item #22-152

**Augusta Right-of-Way Routine Maintenance
Vegetation Control and Mowing**

For

Augusta, Georgia – Engineering Department

RFP Due: Tuesday, March 15, 2022 @ 11:00 a.m.

Until further notice
All bid openings, conferences, and evaluation meetings
will be conducted by electronic teleconferencing via ZOOM.
Instructions are enclosed.

Sec. 1-10-50. Sealed bids selection method:

Bid acceptance and bid evaluation. Provided that the bids are delivered to the Procurement Director at the time, place, and under the conditions contained in the Invitation for Bids, the bids shall be conditionally accepted without alteration or correction pending evaluation.

*It Is The Responsibility Of The Vendor To Ensure Their Bid Submittal
Is Received By The Time Specified Above.*

One Original and Seven (7) Copies of RFP shall be submitted

Thanks for doing business with us . . .
Geri A. Sams, Procurement Director
535 Telfair Street, Room 605
Augusta, Georgia 30901

Rev. 8/11/2016

RFP #22-152 Augusta Right-of-Way Routine Maintenance Vegetation Control and Mowing
RFP Due: Tuesday, March 15, 2022 @ 11:00 a.m.
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Item # 2



Caption/Topic of Discussion to be placed on the Agenda:

ENGINEERING TO PRESENT A COMPREHENSIVE REPORT OF ALL STORM WATER FEES RELATED PROGRAMS TO INCLUDE ALL PAST, PRESENT AND FUTURE EXHIBITORS, GROSS GROWING COST PER MILE. NUMBER OF DEDICATED CITY STORM WATER RELATED EMPLOYEES AS WELL AS NUMBER OF OUTSIDE CONTRACTORS.

There are three parts to this request.

PART 1: STORMWATER FEE RELATED PROGRAMS

- a) Area-wide Right of Way and Drainage System Maintenance Services
- b) Area-wide Drainage System Assessment and Improvements Engineering Services
- c) Area-wide Stormwater Conveyance System Inventory and Assets Management Program
- d) Area-wide stormwater NPDES MS4 Permit Compliance – MOU Activities

PART 2: Number of Stormwater Fee Funded Employees (FTEs)

PART 3: Number of Contractors Performing Stormwater Fee Funded work

- a) Area-wide Right of Way Mowing & Maintenance Contract
 - b) Area-wide Stormwater Ponds Maintenance Contract
 - c) Tree Services Contract
 - d) Storm Sewer and Storm Structures Cleaning Contract
 - e) Street Sweeping Contract
-

Storm Water Utility Cash Flow Analysis

Year	Plan Collection	Actual Collection	Shortfall
2016	\$15,264,691	\$10,917,101	-\$4,347,590
2017	\$15,264,691	\$13,240,806	-\$2,023,885
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2020	\$15,264,691	\$12,800,279	-\$2,464,412
2021	\$15,264,691	\$13,638,701	-\$1,625,990
TOTAL=	\$91,588,146	\$77,039,734	-\$14,548,412

PART 1: STORMWATER FEE RELATED PROGRAMS (Past, Present, Future)

a) *Area-wide Right of Way and Drainage System Maintenance Services*

\$4,741,720

[EXHIBIT A]

ROW Maintenance (Mowing and Litter Pick up)

Around 158 Centerline Miles (CML); Total 100 Roads

Contract Services Cost (six mowing cycles): **\$3,152,100/year**

Unit Cost: \$3,325/CML/cycle

ROW Landscaped Areas upkeep

Contract Services Cost: **\$244,620/year**

Stormwater Ponds Maintenance

Contract Services Cost: **\$650,000/year**

Trees Maintenance

Contract Services Allocation: **\$70,000/year**

Storm Pipes and Structure Cleaning

Contract Services Allocation: **\$25,000/year**

Street Sweeping

Contract Services Cost: **\$600,000/year**

b) *Area-wide Drainage System Assessment and Improvements Engineering Services*

\$300,000 to \$400,000/year

[EXHIBIT B]

PAST

NO ACTION

PRESENT

FOLLOWING

- i) Addressing Historic Drainage issues and Flooding in National Hills Drainage Basin
- ii) Addressing Historic Drainage issues and Flooding in Forrest Hills Drainage Basin
- iii) Addressing Historic Drainage issues and Flooding in Turpin Hills Drainage Basin
- iv) Addressing Historic Drainage issues and Flooding in Overton Road Drainage Basin
- v) Addressing Historic Drainage issues and Flooding in Goshen Drainage Basin
- vi) Morningside Drive Streambank Rehab and Restoration
- vii) Sandpiper Lane Streambank Rehab and Restoration

FUTURE

FOLLOWING

- i) County-wide stream buffer variance to support proactive drainage system maintenance
- ii) Addressing Historic Drainage issues and Flooding in Pleasant Home Road Drainage Basin
- iii) Addressing Historic Drainage issues in Woodlake Drainage Basin

c) *Area-wide Stormwater Conveyance System Inventory and Assets Management Program*

\$150,000 to \$200,000/year

[AED in-house resources & contract services]

These activities are critical for desired performance of storm conveyance system. In addition, it is requirement of Augusta area-wide stormwater NPDES MS4 Permit compliance.

PART 1: STORMWATER FEE RELATED PROGRAMS (Past, Present, Future)

d) Area-wide stormwater NPDES MS4 Permit Compliance – MOU Activities

\$59,000/year

Four non-profit entities assist Augusta Engineering in Public Education, Public Involvement and area water bodies water quality activities. These activities are requirement of Augusta area-wide stormwater NPDES MS4 Permit compliance.

i)Brier Creek Water Conversation District	\$10,000/yr
ii)Phinizy Center for Water Science	\$33,000/yr
iii)Savannah River Keeper	\$9,000/yr
iv)Greater Augusta Arts Council	\$7,000/yr
<u>Mosquito Management Program/DOPH</u>	<i>\$260,000/year</i>

PART 2: Number of Stormwater Fee Funded Employees (FTEs) *[EXHIBIT C-FY2022 Budget]*

- i) Engineering 82 FTEs (29 EFTs Admin and 53 EFTs Project)

\$5,202,247/year (\$2,169,626 & \$3,012,621)

- ii) Others 12 EFTs (9EFTs in FY2022 budget by the Finance)

\$516,055/year

PART 3: Number of Contractors Performing Stormwater Fee Funded work

- a) Area-wide Right of Way Mowing & Maintenance Contractors

Five (5) Contractors

- 1)Augusta Lawn & Turf, 2) Augusta Quality Lawn Care, 3)Larry L McCord LLC,
4)Rise and Shine Lawn Care and Landscaping, and 5)Winsay, LLC

- b) Area-wide Stormwater Ponds Maintenance Contractors

Four (4) Contractors

- 1)Augusta Quality Lawn Care, 2(Augusta Lawn & Turf, 3)Larry McCord, LLC, and
4) Pond Management

- c) Tree Services Contract

Two (2) Contractors

- 1)Big Dog Stump & Tree, and 2) Atlanta Premier Tree Solutions

- d) Storm Sewer and Storm Structures Cleaning Contract

One (1) Contractor

- 1)Augusta Industrial Services, Inc.

- e) Street Sweeping Contract

One (1) Contractor

- 1)SCA Sweeping Corp of America

EXHIBIT A

Stormwater Fee Funded Contracted Services 2022 BUDGET CHARGE MATRIX

Budget Description	Service Type	Budget Acct #	Service Type Budget Requested= \$5,441,720	FY2022 Contractual Services Budget Approved= \$4,716,650
Stormwater Utility Fee Budget Contractual Services	On Call Vegetation and ROW Mowing	581-044320-52.11120	\$3,396,720.00	
	On Call Tree Removal	581-044320-52.11120	\$70,000.00	
	On Call Augusta Owned Pond Maintenance	581-044320-52.11120	\$650,000.00	
	On Call VAC-CON Services	581-044320-52.11120	\$25,000.00	
	Engineering Services	581-044320-52.11120	\$500,000.00	
	Street Sweeping	581-044320-52.11120	\$600,000.00	
	Unforeseen Services	581-044320-52.11120	\$200,000	
	Total		\$5,441,720.00	Budget Shortfall \$725,070.00

Right of Way Mowing and Litter Pickup

ROW Mowing Contract

SCHEDULE

DESCRIPTION	DISTANCE (MILES)	NUMBER OF CUTS	COMMISSION DISTRICT	MAR	MID APR	JUN	MID JUL	SEPT	MID OCT
Phinizy Road (Peach Orchard Rd./Mike Padgett Hwy.)	1.3	6	6	x	x	x	x	x	x
Old Louisville Road (Phinizy Rd./Mike Padgett Hwy.)	2	6	6, 2	x	x	x	x	x	x
Richmond Hill Road (Deans Bridge to Windsor Spring)	2.6	6	5, 2, 6	x	x	x	x	x	x
Richmond Hill West (Richmond Hill to Deans Bridge)	0.5	6	2	x	x	x	x	x	x
Bungalow Road (Richmond Hill Rd./Peach Orchard Rd.)	0.8	6	2	x	x	x	x	x	x
Wrightsboro Road (Barton Chapel Rd. to Jimmie Dyes)	3.3	6	3	x	x	x	x	x	x
Barton Chapel Road (Deans Bridge Rd./Wrightsboro Rd.)	3.4	6	3, 4, 5	x	x	x	x	x	x
Barton Chapel Rd. (Sh. Sec.) (Deans Bridge Rd. to Barton Chapel Rd.)	0.15	6	5, 4	x	x	x	x	x	x
Old Barton Chapel Road (Barton Chapel Rd. to Old McDuffie Rd.)	0.36	6	5	x	x	x	x	x	x
Ditmus Road (Barton Chapel Rd. to Dead End)	0.27	6	4	x	x	x	x	x	x
Meadowbrook Drive (Windsor Spring Rd./Deans Bridge Rd.)	2	6	5	x	x	x	x	x	x
Morgan Road (Tobacco Rd./Deans Bridge Rd.)	1.8	6	4, 5	x	x	x	x	x	x
Rosier Road (Peach Orchard Rd./Windsor Spring Rd.)	1.3	6	5, 6	x	x	x	x	x	x
Wheeless Road (Deans Bridge Rd. to Gordon Hwy.)	1.5	6	2, 5	x	x	x	x	x	x
Rock Springs Drive (Valley Park E to River Oak Dr.)	0.3	6	2	x	x	x	x	x	x
Vandivere Road (Kentucky Ave. to Walden Dr.)	0.3	6	2	x	x	x	x	x	x
Old Savannah Road (Gordon Hwy. to Twiggs St.)	1.4	6	2	x	x	x	x	x	x
Olive Road (Gordon Hwy. to Troup St.)	1.5	6	2	x	x	x	x	x	x
White Road (Olive Rd. to Kissingbower Rd.)	0.7	6	2	x	x	x	x	x	x
Belair Road (Wrightboro Rd./Jimmie Dyess Pkwy)	1.6	6	2	x	x	x	x	x	x
Laney Walker Blvd. (Sand Bar Ferry Rd./Twiggs St.)	2.9	6	1	x	x	x	x	x	x
East Boundary (Laney Walker Blvd./Reynolds St.)	1.1	6	1	x	x	x	x	x	x
Brown Ed (Mike Padgett Hwy to Peach Orchard Rd.)	6.9	6	8	x	x	x	x	x	x
Lovers Lane (Sand Bar Ferry Rd./Laney Walker Blvd.)	0.4	6	Item # 21	x	x	x	x	x	x

ROW Mowing Contract

DESCRIPTION	DISTANCE (MILES)	NUMBER OF CUTS	COMMISSION DISTRICT	MAR	MID APR	JUN	MID JUL	SEPT	MID OCT
Gordon Hwy. (Skyview Dr./State Line)	1.7	6	1	x	x	x	x	x	x
Doug Barnard Pkwy. (Gordon Hwy. & Mike Padgett Hwy)	8.8	6	1	x	x	x	x	x	x
Dixon Airline Road (Mike Padgett to Doug Barnard Pkwy.)	1.8	6	6	x	x	x	x	x	x
Dan Bowles Road (Doug Barnard Pkwy. to Gordon Hwy.)	1.1	6	1	x	x	x	x	x	x
Perkins Road (Doug Barnard Pkwy. to Marvin Griffin Rd.)	1	6	6	x	x	x	x	x	x
Rawley Road (Mike Padgett Hwy. to Cul-D-Sac)	0.34	6	6	x	x	x	x	x	x
River Watch Pkwy. (15th Street to I-20)	5	6	1	x	x	x	x	x	x
15th Street & Essie McIntyre Blvd./Laney Walker Blvd.)	1.2	6	1	x	x	x	x	x	x
Calhoun Expressway (Greene St. to Washington Rd.)	2.6	6	1, 3	x	x	x	x	x	x
Windsor Spring Road (Old Louisville Rd. to Mims Rd.)	10.4	6	6, 4, 5	x	x	x	x	x	x
Tobacco Road (Doug Barnard Pkwy./Deans Bridge Rd.)	8.5	6	1, 6, 4, 5, 8	x	x	x	x	x	x
Old Tobacco Road (Tobacco Rd./Old Hwy. 1)	0.45	6	4	x	x	x	x	x	x
Old US 1 (Old Tobacco Rd./Windermere Dr.)	1.6	6	4,5	x	x	x	x	x	x
Windermere Dr. (Deans Bridge Rd. to Cromwell Rd.)	0.1	6	5	x	x	x	x	x	x
Wyevale Road (Old US 1 to Cromwell Rd.)	0.14	6	5	x	x	x	x	x	x
Glenn Hills Dr. (Barton Chapel Rd. to Georgetown Dr.)	1	6	5	x	x	x	x	x	x
Georgetown Dr. (Glenn Hills Dr. to Deans Bridge Rd.)	0.75	6	5	x	x	x	x	x	x
Willis Foreman Road (Peach Orchard Rd. to Deans Bridge Rd.)	5.8	6	8, 4	x	x	x	x	x	x
Milledgeville Rd. (Gordon Hwy./I-520/Gordon Hwy./Olive Rd.)	4.9	6	4, 5	x	x	x	x	x	x
Wylds Road (Milledgeville Rd. to Mall Entrance)	1.4	6	5	x	x	x	x	x	x
North Leg Road (Wrightsboro Rd./Milledgeville Rd.)	1.6	6	5	x	x	x	x	x	x
Highland Avenue (Wheeler Rd./Gordon Hwy.)	2.5	6	1, 3, 2	x	x	x	x	x	x
Damascus Road (Wrightsboro Rd. to Highland Ave.)	1.2	6	2	x	x	x	x	x	x
Golden Camp Road (Milledgeville Rd. to Deans Bridge Rd.)	1.5	6	5	x	x	x	x	x	x
Noland Connector Road (Milledgeville Rd. to Gordon Hwy.)	0.6	6	5	x	x	x	x	x	x
Bayvale Road (Milledgeville Rd. to Sibley Rd.)	0.54	6	5	x	x	x	x	x	x
Sibley Road (North Leg Rd. to Milledgeville Rd.)	2	6	5	x	x	x	x	x	x
Veterans Road (Sibley Rd. to Bayvale Rd.)	0.11	6	5	x	x	x	x	x	x
Veterans Drive (Veterans Rd. to Sibley Rd.)	0.36	6	5	x	x	x	x	x	x
Kissingbower Road (Gordon Hwy. to White Rd.)	1.2	6	Item # 22	x	x	x	x	x	x

ROW Mowing Contract

DESCRIPTION	DISTANCE (MILES)	NUMBER OF CUTS	COMMISSION DISTRICT	MAR	MID APR	JUN	MID JUL	SEPT	MID OCT
MLK Blvd. (Olive Rd. to Twiggs St.)	1	6	2	x	x	x	x	x	x
Lumpkin Road (Doug Barnard Pkwy./Old McDuffie Rd)	4.8	6	1	x	x	x	x	x	x
Old McDuffie Road (Milledgeville Rd. to Dead End)	2.7	6	4, 5	x	x	x	x	x	x
New McDuffie (Old McDuffie Rd. to Milledgeville Rd.)	0.5	6	5	x	x	x	x	x	x
Boy Scout Road (Joy Rd./Washington Rd.)	1.8	6	7	x	x	x	x	x	x
Skinner Mill Road (Walton Way Ext. to Boy Scout Rd.)	2.5	6	7	x	x	x	x	x	x
Powell Road (Gordon Hwy. to County Line)	3	6	3	x	x	x	x	x	x
Lewis Road (Powell Rd. To County Line)	1.8	6	3	x	x	x	x	x	x
Flowing Wells Road (Wrightsboro Rd. to Interstate Pkwy.)	1.1	6	3	x	x	x	x	x	x
Frontage Road (Mason McKnight Jr. Pkwy. To Scott Nixon Memorial Dr.)	1.3	6	3	x	x	x	x	x	x
Lake Forest Drive (Camellia Rd. to Comfort Rd.)	1	6	3	x	x	x	x	x	x
McKnight Industrial Blvd. (Frontage Rd. to Scott Nixon Memorial Dr.)	0.15	6	3	x	x	x	x	x	x
West Frontage Road (Frontage Rd. to Scott Nixon Memorial Dr.	0.2	6	3	x	x	x	x	x	x
Wheeler Road (Walton Way Ext. to Highland Ave.)	2.75	6	3, 7	x	x	x	x	x	x
Interstate Parkway (Flowing Wells Rd. to Wainbrook Dr.)	1.7	6	3	x	x	x	x	x	x
Jackson Road (Walton Way/Wrightsboro Rd.)	1.2	6	3	x	x	x	x	x	x
Warren Road (Washington Rd./Dead End - including Overpass)	1.1	6	7	x	x	x	x	x	x
Walton Way Extension (Walton Way/Pleasant Home Rd.)	1.3			x	x	x	x	x	x
Scott Nixon Memorial Drive (Davis Rd./Columbia County Line)	1.2	6	3	x	x	x	x	x	x
Pleasant Home Road (Davis Rd./Washington Rd.)	1.4	6	3	x	x	x	x	x	x
Davis Road (Pleasant Home Rd./County Line)	0.6	6	7	x	x	x	x	x	x
Steven Creek Rd (Washington Rd./Riverwatch Pkwy)	1	6	7	x	x	x	x	x	x
Clausen Road (Steven Creek Rd./Riverwatch Pkwy)	0.8	6	7	x	x	x	x	x	x
Perimeter Parkway (Wheeler Rd./Interstate Pkwy)	1.2	6	7	x	x	x	x	x	x
Mason McKnight Jr. Pkwy (Scott Nixon Memorial Dr. to County Line)	0.5	6	3	x	x	x	x	x	x
		6	3	x	x	x	x	x	x

Addition: Old Waynesboro Rd (Hwy 56 to Brown Rd), Berckmans Rd (Wheeler Rd to Roundabout),

Item # 2

Right of Way Landscaped Areas Maintenance

Item # 2

Roadway and Roundabout Landscaped Improvements Maintenance
Augusta Engineering Department

PART 1

Roadway and Roundabout Landscaped Improvements Maintenance ***						
	ITEM NO.	DESCRIPTION	UNIT	PERIOD	UNIT PRICE	EXTENDED PRICE
	001-1000	Force Account	LS	LUMP	100,000	\$100,000
ROADWAY Landscaped Improvements Maintenance						
Riverwatch Parkway (River Shoals to I-20 - Median Islands and I-20 Off-Ramp Landscape Side Slope)						
	A	Full Grounds Maintenance	Yearly Cost	Base Year 1		
	B	Full Ground Maintenance	Yearly Cost	Base Year 2		
	C	Full Grounds Maintenance	Yearly Cost	Option Year 1		
	D	Full Grounds Maintenance	Yearly Cost	Option Year 2		
SUBTOTAL						
John C Calhoun -Landscaped Islands & area in between these Islands; Ramps Landscaped Area						
	A	Full Grounds Maintenance	Yearly Cost	Base Year 1		
	B	Full Ground Maintenance	Yearly Cost	Base Year 2		
	C	Full Grounds Maintenance	Yearly Cost	Option Year 1		
	D	Full Grounds Maintenance	Yearly Cost	Option Year 2		
SUBTOTAL						
ROUNDABOUT Landscaped Improvements Maintenance						
Druid Park Ave Roundabout (including adjacent landscaped ROW)						
	A	Full Grounds Maintenance	Yearly Cost	Base Year 1		
	B	Full Ground Maintenance	Yearly Cost	Base Year 2		
	C	Full Grounds Maintenance	Yearly Cost	Option Year 1		
	D	Full Grounds Maintenance	Yearly Cost	Option Year 2		
SUBTOTAL						

Roadway and Roundabout Landscaped Improvements Maintenance
 Augusta Engineering Department

	ITEM NO.	DESCRIPTION	UNIT	PERIOD	UNIT PRICE	EXTENDED PRICE
ROUNABOUT Landscaped Improvements Maintenance						
Twiggs/Old Savannah Road Roundabout – Two (including adjacent landscaped ROW)						
	A	Full Grounds Maintenance	Yearly Cost	Base Year 1		
	B	Full Ground Maintenance	Yearly Cost	Base Year 2		
	C	Full Grounds Maintenance	Yearly Cost	Option Year 1		
	D	Full Grounds Maintenance	Yearly Cost	Option Year 2		
SUBTOTAL						
Wheeler Rd/Aumond Rd Roundabout (including adjacent landscaped ROW)						
	A	Full Grounds Maintenance	Yearly Cost	Base Year 1		
	B	Full Ground Maintenance	Yearly Cost	Base Year 2		
	C	Full Grounds Maintenance	Yearly Cost	Option Year 1		
	D	Full Grounds Maintenance	Yearly Cost	Option Year 2		
SUBTOTAL						
TOTAL						

PART 2

ADDITIONAL ROADWAYS & ROUNABOUTS Landscaped Improvements Maintenance						
Windsor Spring Rd-landscaped Median (Tobacco to Hwy 88)						
	A	Full Grounds Maintenance	Yearly Cost	Base Year 1		
	B	Full Ground Maintenance	Yearly Cost	Base Year 2		
	C	Full Grounds Maintenance	Yearly Cost	Option Year 1		
	D	Full Grounds Maintenance	Yearly Cost	Option Year 2		
SUBTOTAL						

Roadway and Roundabout Landscaped Improvements Maintenance
Augusta Engineering Department

15th Street-landscaped Median (John Calhoun to Laney Walker)						
	A	Full Grounds Maintenance	Yearly Cost	Base Year 1		
	B	Full Ground Maintenance	Yearly Cost	Base Year 2		
	C	Full Grounds Maintenance	Yearly Cost	Option Year 1		
	D	Full Grounds Maintenance	Yearly Cost	Option Year 2		
SUBTOTAL						
Wrightsboro Rd -landscaped Median (Mark Church Rd to I-520)						
	A	Full Grounds Maintenance	Yearly Cost	Base Year 1		
	B	Full Ground Maintenance	Yearly Cost	Base Year 2		
	C	Full Grounds Maintenance	Yearly Cost	Option Year 1		
	D	Full Grounds Maintenance	Yearly Cost	Option Year 2		
SUBTOTAL						
Additional Roundabout (assume similar to Wheeler/Aumond)						
	A	Full Grounds Maintenance	Yearly Cost	Base Year 1		
	B	Full Ground Maintenance	Yearly Cost	Base Year 2		
	C	Full Grounds Maintenance	Yearly Cost	Option Year 1		
	D	Full Grounds Maintenance	Yearly Cost	Option Year 2		
SUBTOTAL						
ADDITION: Walton Way (St Sebastian Way to 11th St), Gordon Hwy (Bayvale Rd to North Leg), Old Waynesboro Rd at Hwy 56					TOTAL	

Augusta Owned Stormwater Ponds Maintenance

Basin	PIN	Location	Bid Grouping
GROUP			A
Raes Creek	023-0-174-00-0	4029 Wheeler Woods Rd	
Little Spirit Creek	233-0-163-00-0	1002 Patriot Dr (.2acres?)	
Butler Creek	130-0-767-01-0	2616 Crosscreek Rd (0.25acre)	
Raes Creek	016-2-247-00-0	307 A Chatham Rd (0.15acre)	
Rock Creek	012-2-111-00-0	2028 Bromley CT (.2 acre)	
Rocky Creek	123-3-227-00-0	1913 Neptune Dr (.3acre)	
Spirit Creek	198-2-007-00-0	1017 Ossabaw Dr (Goshen)	
Butler Creek	068-3-011-00-0	2217 Grandwood Ln	
Raes Creek	030-0-221-00-0	1235 A Augusta West Pkwy	
Butler Creek	095-0-183-00-0	2700 Blossom Dr	
Butler Creek	133-0-023-02-0	1941 Phinizy Rd (Jail) (2.6 acres)	
Raes Creek	017-0-133-00-0	3097 Westwood Rd (.43acre)	
Butler Creek	038-4-005-00-0	410 Hill Haven Pl (.41ac)	
Rock Creek	013-4-283-00-0	2436 Brentwood Pl (National Hills)	
Raes Creek	031-2-127-00-0	1326 Jackson Rd (.62acre)	
Spirit Creek	154-0-305-00-0	4612 A Shado Moss Ct	
Spirit Creek	140-0-548-00-0	3860 Woodlake Dr	
Spirit Creek	194-0-125-00-0	2356 Willis Foreman Rd (0.98 Acres)	
Butler Creek	145-0-162-00-0	3527 Northpines Dr	
Spirit Creek	152-0-312-00-0	3781 A Fairington Dr (2acres/Pond 1.06Ac)	
Raes Creek	016-0-485-00-0	14 Park Place (0.6Ac Pond)	
Spirit Creek	166-0-311-00-0	3930 Wexford Ct	
Raes Creek	031-2-117-00-0	2800 Scarlett Dr	
Butler Creek	143-1-038-00-0	3416B Thomas Pl (pepperidge Pointe)	
Raes Creek	039-4-007-00-0	3211 Pennisula Dr (Bridgeport) (0.7Ac pond)	
Rock Creek	013-4-273-00-0	2439 Brentwood Dr (National Hills)	
Rocky Creek	068-3-045-00-0	2588 Leland Dr (1.14acres)	
Spirit Creek	215-0-303-00-0	1262 Paramount Ct (Spirit Pointe) (1.6Ac pond)	
Butler Creek	095-0-207-00-0	2501 Blossom Ct (.4acre)	
Butler Creek	119-0-473-00-0	2915 Meadowbrook Dr	
Spirit Creek	141-0-429-00-0	3814 Woodlake Dr (Wet Pond)	
Little Spirit Creek	214-0-233-00-0	1063 Woodberry Dr (Brown Rd)	
Spirit Creek	166-0-368-00-0	4028 Ramswood Dr (0.7 Ac Pond)	
Raes Creek	040-3-082-00-0	3259 Peninsula Dr (1 acres pond)	
Spirit Creek	142-0-067-00-0	4428 ELK Grove Trail	
Spirit Creek	155-0-119-00-0	4712 A Broad Oak CT	
Butler Creek	131-0-026-06-0	2477 Nordahl Dr(0.66 Acres total)	
Phinizy Swamp	171-0-186-00-0	3962 Debra St (Hwy 56) (1.35acres)	
Butler Creek	129-2-003-00-0	2785 Crosscreek Rd (Quail Ridge) (1.23Acres)	
Spirit Creek	177-0-059-00-0	2787A Davis Mill Rd (Walton Landing-Wet area)(1.6Ac)	
Spirit Creek	128-0-102-00-0	3622 Karleem Rd (1Acres pond)	
Rocky Creek	068-3-022-00-0	2303 Butternut Ct (1acre)	

Raes Creek	052-0-432-00-0	3005 Mabus Dr (Belair Rd)(1Acre)	
Butler Creek	118-0-346-00-0	2920 Algernon Cir	
Spirit Creek	140-0-672-00-0	3870 Woodlake Dr	
GROUP			B
Raes Creek	023-0-341-00-0	42 Eagle Pointe	
Raes Creek	018-0-442-00-0	263 Lafayette Dr	
Spirit Creek	165-1-117-00-0	2113 Bradley Ct (Walton Acres)	
Spirit Creek	182-4-013-00-0	3827 Hellow Keg Dr	
Spirit Creek	142-0-058-00-0	4508A Lakeland Ct	
Little Spirit Creek	302-0-047-00-0	4809 Trunnion Dr (2Acres)	
Raes Creek	039-0-212-00-0	2924 Pillar Ln (Belair Rd)(2Acres)	
Butler Creek	107-0-918-00-0	3545 Mutimer Dr	
Butler Creek	095-0-170-03-0	3339 Deans Bridge Rd (3acre/wooded)	
Raes Creek	040-0-158-00-0	3670 Wrightsboro Rd-Regional Facility (51.4acre)	
Raes Creek	039-0-191-00-0	3105 A Ocean Dr (may be wetlands/ Belair Rd-2Ac)	
Spirit Creek	167-2-043-00-0	4314 Sanderling Dr / Boykin&Ervay (3Acres)	
Spirit Creek	143-1-016-00-0	3585 Stanton Ct	
Spirit Creek	184-0-205-00-0	2043 Country Place Dr	
Butler Creek	095-0-269-00-0	2900 Rasha Dr (2.48acre)	
Butler Creek	066-4-001-00-0	4113 Elders Dr (3acres)-Holding water	
Butler Creek	118-0-437-00-0	2851 Brentway Dr	
Spirit Creek	194-0-138-00-0	4113 Foreman Way	
Butler Creek	095-0-170-03-0	3339 Deans Bridge Rd (3acre)-duplicate of 57)	
Butler Creek	119-0-614-01-0	2926 Dahlia Dr (may be wetland)	
Butler Creek	132-0-012-02-0	3012 Erik Ct (1.3acre)	
Spirit Creek	155-0-168-00-0	2567 Smoke treet Rd	
Spirit Creek	182-0-056-00-0	3913 Union Grove Cir (1.26acre)	
Spirit Creek	179-4-035-00-0	4820 Jasmine Way (2 Ponds/1.4Ac & 3.5Ac)	
Butler Creek	130-0-872-00-0	2703 Crosscreek Rd (end of Portsmouth Pl-Quail Hollow)	
Butler Creek	094-0-373-00-0	3238 Amanda Cir (Gordon Lake)	
Spirit Creek	165-1-018-00-0	1919 Mitchell Pl (Walton Farms/1.46 acre)	
Spirit Creek	143-3-082-00-0	3644 Stanton Ct (Cambridge)	
Raes Creek	040-3-064-00-0	2947 Galahad Way (Cameron/Belair Rd-4.57acre/3Ac Pond))	
Spirit Creek	214-0-168-00-0	4108 Burning Tree Ln	
Spirit Creek	213-0-002-14-0	1735 Lawrence Rd (Brown Rd)	
Spirit Creek	184-0-155-00-0	3012 John Paul Xing (countay place)(2Acres)	
Spirit Creek	140-0-549-00-0	3837 A Woodlake Dr (.26acre)	
Spirit Creek	142-4-145-00-0	3692 Bansbury Pl (2acre/Cambridge)	
Raes Creek	023-0-343-02-0	313 Exchange Dr (Augusta Exchange)(1Ac)	
Butler Creek	143-0-478-00-0	3471 A Linderwood Dr (Faircrest Ave)	
Spirit Creek	214-0-303-00-0	1031 1/2 Woodberry Dr (2.53acre)	
Spirit Creek	164-0-022-04-0	2734 1/2 Davis Mill Rd Walton Meadow) (1.5Acres)	
Rocky Creek	042-4-132-00-0	3174 Summerchase Pl	
GROUP			C
Raes Creek	030-0-304-00-0	2112 Larks Ct (1.4acre)	

Oates Creek	057-3-129-01-0	2250 Leeway Landing (may be wetland)	
Rocky Creek	053-4-082-00-0	3278 Lexington Way (Granite Hill)	
Spirit Creek	163-0-010-01-0	3010 Birdwell Rd (5acre/may be wetland)(EXCLUDE)	
Spirit Creek	152-0-489-00-0	2614 Spirit Creek Rd (Walton Hills)	
Spirit Creek	128-0-117-00-0	3647 A Karleen Rd (3Acres)	
Rocky Creek	054-4-006-00-0	1056 Franke Industrial Dr	
Spirit Creek	213-0-210-00-0	1809 A Sheffield Ct (Brown Rd)	
Little Spirit Creek	214-0-096-00-0	4302 A Big Dipper Cir (Brown Rd)	
Raes Creek	041-1-053-02-0	1350 Marks Church Rd	
Spirit Creek	155-0-152-00-0	4338 White Pine Ct	
Butler Creek	095-1-001-00-0	3501 Tullocks Hidd Dr (2ponds) & 3815 Mount View Dr	
Butler Creek	052-0-601-02-0	5019 A Clarkston Dr (Asbury Hill) (2.5Acres)	
GROUP D			
Spirit Creek	165-1-083-00-0	2027 Walton Farms Dr	
Spirit Creek	179-4-035-00-0	4820 Jasmine Way (2 Ponds/1.4Ac & 3.5Ac)	Duplicate
Raes Creek	022-0-085-00-0	660 Frontage Rd (0.61acre/Wet Pond)	
Rocky Creek	053-2-052-00-0	3917 Barnett Xing (2.54acre)	
Oates Creek	057-1-237-00-0	2235 Walden Dr (1.42acre)	
Spirit Creek	139-0-354-00-0	2535 A Sand Ridge Ct (10acre/wet & wetland)	
Spirit Creek	167-2-043-00-0	4314 Sanderling Dr (2.86acre)/adjacent pond: 2052 BoykinRd)	Duplicate
Raes Creek	016-0-437-00-0	255 Camilla Ave (4.77acre / Walmart ponds)	
Spirit Creek	152-0-403-00-0	3847 Crest Dr (4.83 acre)	
Butler Creek	132-0-070-00-0	2152 B Chadwick Rd (18.43acre/wetland)(12Acres Pond)	
Spirit Creek	152-0-410-00-0	4360 Creekview Dr (2Acres)	
GROUP E			
Butler Creek	132-0-482-00-0	3422 A Stoney Brook Rd	
Spirit Creek	198-0-382-00-0	3518 Southern Xing (2.99acre/may be wetland)	
Spirit Creek	165-0-129-00-0	2706 Spirit Creek Rd	
Spirit Creek	140-0-515-00-0	3902 & 3904 Bowen Dr (1.5acre/2Ponds& Parcels)	
Rocky Creek	123-3-235-00-0	3402 Mike Padgett Apple Valley/Hwy 56	
Spirit Creek	143-0-730-00-0	2535 Smoketree Rd;adjacent 3353 Hamden St	
GROUP F			
Butler Creek	130-0-518-00-0	2800 Bradford Ct (3.58acre/Woodlake))	
Rocky Creek	084-0-003-01-0	2852 Lumpkin Rd (3.7Acres pond)	
Rocky Creek	084-3-156-01-0	2915 Deen Rd	
Spirit Creek	181-3-042-00-0	2440 Orchard Dr (Brown Rd)	
Spirit Creek	153-0-013-00-0	2367 Travis Rd (3.17Ac)	
GROUP G			
Butler Creek	052-0-096-00-0	1601 Flagler RD (3.17Acres pond)	
Rocky Creek	110-1-062-00-0	2202 Harding Rd	
Butler Creek	095-4-052-00-0	3469 Toms Dr (3.31Acres pond)	
GROUP H			
Spirit Creek	178-0-106-01-0	1145 Walton Trail	
Butler Creek	107-0-085-04-0	3314 Deans Bridg Rd (8.4acre)	

Rocky Creek	085-3-038-00-0	2416 Baywood Dr (Thomas Wood)	
GROUP			I
Little Spirit Creek	232-0-217-00-0	1569 Pine Ridge Dr E (5.33Acres pond)	
Rocky Creek	053-0-079-02-0	3000 Norwood Dr / Buckhead Subdivision	
Spirit Creek	167-0-617-00-0	2052 Boykin Rd / Fieldcrest Rd (Sanderling Dr/4.76acre)	
GROUP			J
Butler Creek	129-0-537-01-0	3446 Saddle Horn Run (5acres)	
Spirit Creek	152-0-234-00-0	2619 Anthony Dejuan Pkwy (5.65acre)	
Spirit Creek	235-0-008-00-0	1101 Bennock Rd (POWT/AUD?)	
Spirit Creek	170-0-239-00-0	2063 Forward Augusta Dr (4.25acres)	
Spirit Creek	142-4-014-00-0	3238 Warwick Pl (Cambridge) (6.4acres)	
REGINOAL FACILITY			K
Raes Creek	018-0-364-02-0	365 Lafayette Dr / Pointwest Dr / Lafayette Dr (5Acres Pond)	
Raes Creek	018-0-001-01-0	Regional Facility-3011 Skinner Mill Rd (21 acres)	
Raes Creek	032-3-001-00-0	HIERS POND	
Raes Creek	032-1-030-16-0	Lake Aumond	
Oates Creek	058-1-001-00-0	Turknett Spring Facility (23.35Acres total/ around14acres Pond)	
Oates Creek	057-3-218-00-0	Regional Pond- 2260/2250 Walden Dr (17Acres)	
Raes Creek	040-0-158-00-0	3670 Wrightsboro Rd-Regional Facility (51.4acre)(6Acres Pond)	
	110-4-336-02-0	Regional Pond- Windsor Spring Rd (26Acres)	

	Beaver Dam Removal	EACH
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Street Sweeping Contract Services

PART ONE**DOWNTOWN ROADS NETWORK****(East Boundary to 15th Street and Reynold Street to Walton Way)**

STREET SWEEPING AND DEBRIS DISPOSAL - Option A						
	ITEM NO.	DESCRIPTION	UNIT	PERIOD	UNIT PRICE	TOTAL PRICE
	001-1000	Force Account	LS	LUMP	30,000	\$30,000
OPTION a – Weekly Sweeping ✓					CL Mile/ Cycle	TOTAL/Year
	A	Primary Roads **	Yearly Cost	Base Year 1	\$96.00/\$2,304	\$119,808.00
	B	Primary Roads **	Yearly Cost	Base Year 2	\$96.00/\$2,304*	\$119,808.00*
	C	Primary Roads **	Yearly Cost	Base Year 3	\$96.00/\$2,304*	\$119,808.00*
	D	Primary Roads **	Yearly Cost	Optional Years	\$96.00/\$2,304*	\$119,808.00*
BASE THREE YEARS TOTAL						\$359,424.00*
OPTION a – Weekly Sweeping ✓					CL Mile/ Cycle	TOTAL/Year
	A	Secondary Roads (Side Streets) ***	Yearly Cost	Base Year 1	\$96.00/\$2,496	\$129,792.00
	B	Secondary Roads (Side Streets) ***	Yearly Cost	Base Year 2	\$96.00/\$2,496*	\$129,792.00*
	C	Secondary Roads (Side Streets) ***	Yearly Cost	Base Year 3	\$96.00/\$2,496*	\$129,792.00*
	D	Secondary Roads (Side Streets) ***	Yearly Cost	Optional Years	\$96.00/\$2,496*	\$129,792.00*
BASE THREE YEARS TOTAL						\$389,376.00*

** Primary Roads approximate total Center Line (CL) miles are 24.

*** Side Streets approximate total Center Line (CL) miles are 26.

UNIT RATE
FOR
SIDE
STREETS
\$182.00/
CLM/cycle

PART TWO

OPTION 2

STREET SWEEPING AND DEBRIS DISPOSAL ****

ITEM NO.	DESCRIPTION	UNIT	PERIOD	UNIT PRICE	YEARLY TOTAL PRICE
001-1000	Force Account	LS	LUMP	30,000	\$30,000
OPTION 2a – Quarterly Sweeping ✓					
				CL Mile / Cycle	TOTAL/Year
A	Local Streets (excluding Entry Ways and Subdivision Interior Collector Roads)****	Yearly Cost	Base Year 1	\$53.90/\$28,297.50	\$113,190.00
B	Local Streets (excluding Entry Ways and Subdivision Interior Collector Roads)****	Yearly Cost	Base Year 2	\$54.44/\$28,580.48	\$114,321.90
C	Local Streets (excluding Entry Ways and Subdivision Interior Collector Roads)****	Yearly Cost	Base Year 3	\$54.98/\$28,866.28	\$115,465.12
D	Local Streets (excluding Entry Ways and Subdivision Interior Collector Roads)****	Yearly Cost	Optional Years	\$56.08/\$29,443.61	\$117,774.42
OPTION 2a BASE THREE YEARS TOTAL					\$342,977.02
OPTION 2b – Monthly Sweeping ✓					
				CL Mile / Cycle	TOTAL/Year
A	Entry Ways and Subdivision Interior Collector Roads ****	Yearly Cost	Base Year 1	\$53.90/\$9,432.50	\$113,190.00
B	Entry Ways and Subdivision Interior Collector Roads ****	Yearly Cost	Base Year 2	\$54.44/\$9,526.83	\$114,321.90
C	Entry Ways and Subdivision Interior Collector Roads ****	Yearly Cost	Base Year 3	\$54.98/\$9,622.09	\$115,465.12
D	Entry Ways and Subdivision Interior Collector Roads****	Yearly Cost	Optional Years	\$56.08/\$9,814.54	\$117,774.42
OPTION 2b BASE THREE YEARS TOTAL					
OPTION 2c – Monthly Sweeping ✓					
				CL Mile / Cycle	TOTAL/Year
A	Major Roads ****	Yearly Cost	Base Year 1	\$53.90/\$8,086.00	\$97,020.00
B	Major Roads ****	Yearly Cost	Base Year 2	\$54.44/\$8,165.85	\$97,990.20
C	Major Roads ****	Yearly Cost	Base Year 2	\$54.98/\$8,247.51	\$98,970.10
D	Major Roads ****	Yearly Cost	Optional Years	\$56.08/\$8,412.46	\$100,949.50
OPTION 2c BASE THREE YEARS TOTAL					\$293,980.30
****Option 2(a) Assume 525 CL Miles for fee proposal purpose.					
**** Option 2(b) Assume 175 CL Miles for fee proposal purpose.					
**** Option 2(c) Assume 150 CL Miles for fee proposal purpose. see attached Major Roads List (approximately 150 CL Miles) and County Road map for local roads general info.					

OPTION 3**STREET SWEEPING AND DEBRIS DISPOSAL *****
OPTION 3 FACILITIES**

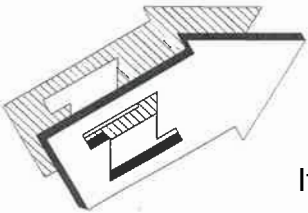
ITEM NO.	DESCRIPTION	UNIT	PERIOD	UNIT PRICE	YEARLY TOTAL PRICE
001-1000	Force Account	LS	LUMP	30,000	\$30,000
OPTION 3a – Monthly Sweeping				CL Mile / Cycle	TOTAL/Year
A	Augusta owned all roads *****	Yearly Cost	Base Year 1	\$85.08/\$93,588.00	\$1,123,056.00
B	Augusta owned all roads *****	Yearly Cost	Base Year 2	\$85.93/\$94,523.88	\$1,134,286.56
C	Augusta owned all roads *****	Yearly Cost	Base Year 3	\$86.79/\$95,469.12	\$1,145,629.43
D	Augusta owned all roads *****	Yearly Cost	Optional Years	\$88.53/\$97,378.50	\$1,168,542.01
OPTION 3a BASE THREE YEARS TOTAL					\$3,402,971.99
OPTION 3b – As needed Sweeping				CL Mile / Rate	
A	Other Areas/Roads *****	Yearly Cost	Base Year 1	\$110.60	
B	Other Areas/Roads *****	Yearly Cost	Base Year 2	\$111.71	
C	Other Areas/Roads *****	Yearly Cost	Base Year 3	\$112.83	
D	Other Areas/Roads *****	Yearly Cost	Optional Years	\$115.08	
OPTION 3b BASE THREE YEARS TOTAL					
***** 3a. Assume 1100 CLM for fee proposal see attached Major Roads List (approximately 150 CL Miles) and County Road map for local roads general information					
ADDITIONAL SERVICES				Hourly Rate	N/A
A	SPECIAL EVENTS			\$64.82	
B	PARKING LOT			\$42.63	
C	POST-STORM			\$64.82	

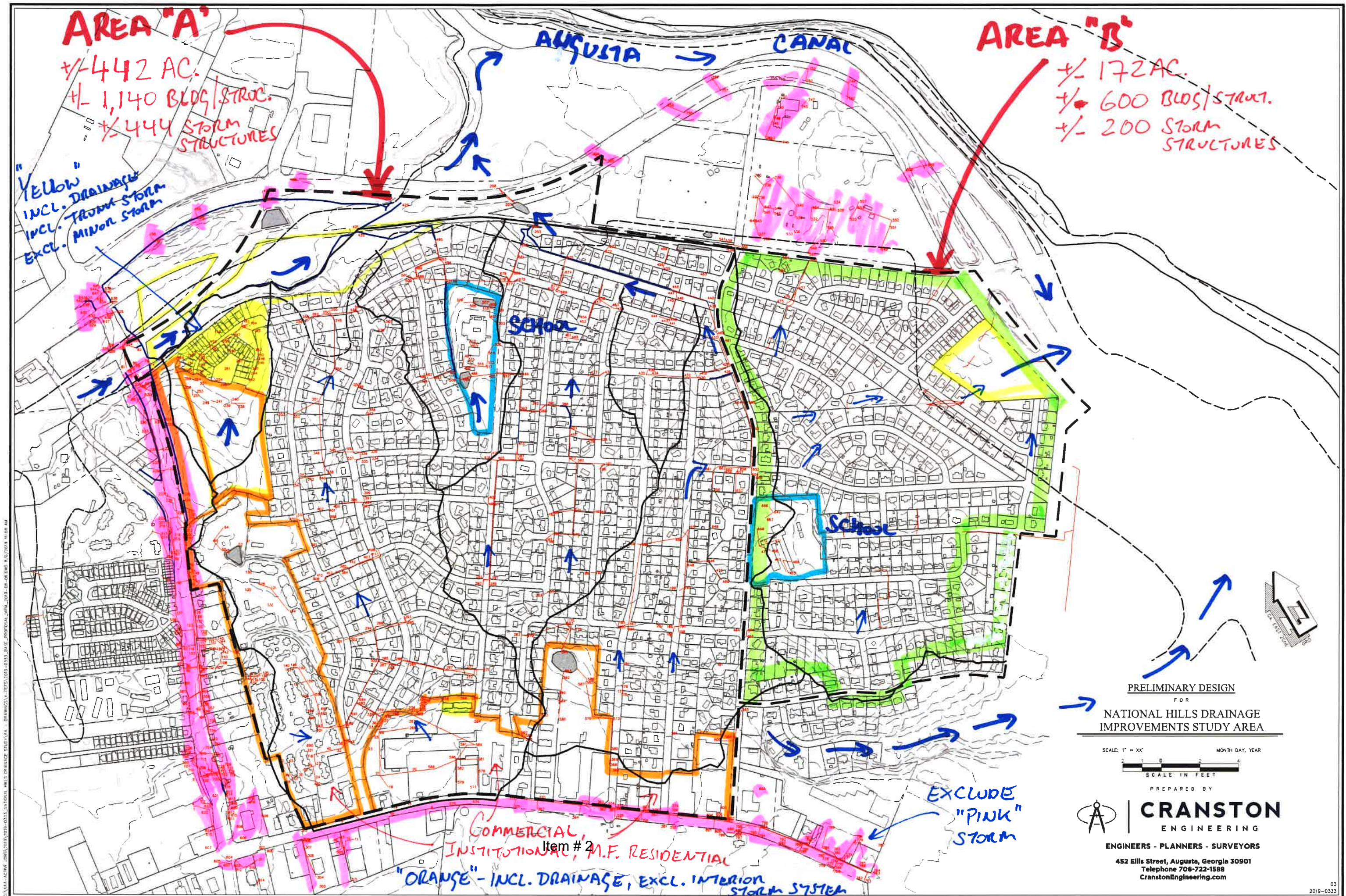
EXHIBIT B

Addressing Historic Drainage Issues



Attachment number 2 in Page 25 of 37

MAPPING SOURCE: City of Augusta		 Item # 2		 CRANSTON ENGINEERING	
SHEET Priority Improvement Areas	JOB NAME: National Hills Drainage Study				
	JOB NO: 2019-0333	DATE: 9/29/2021	CHECKED: WTD		



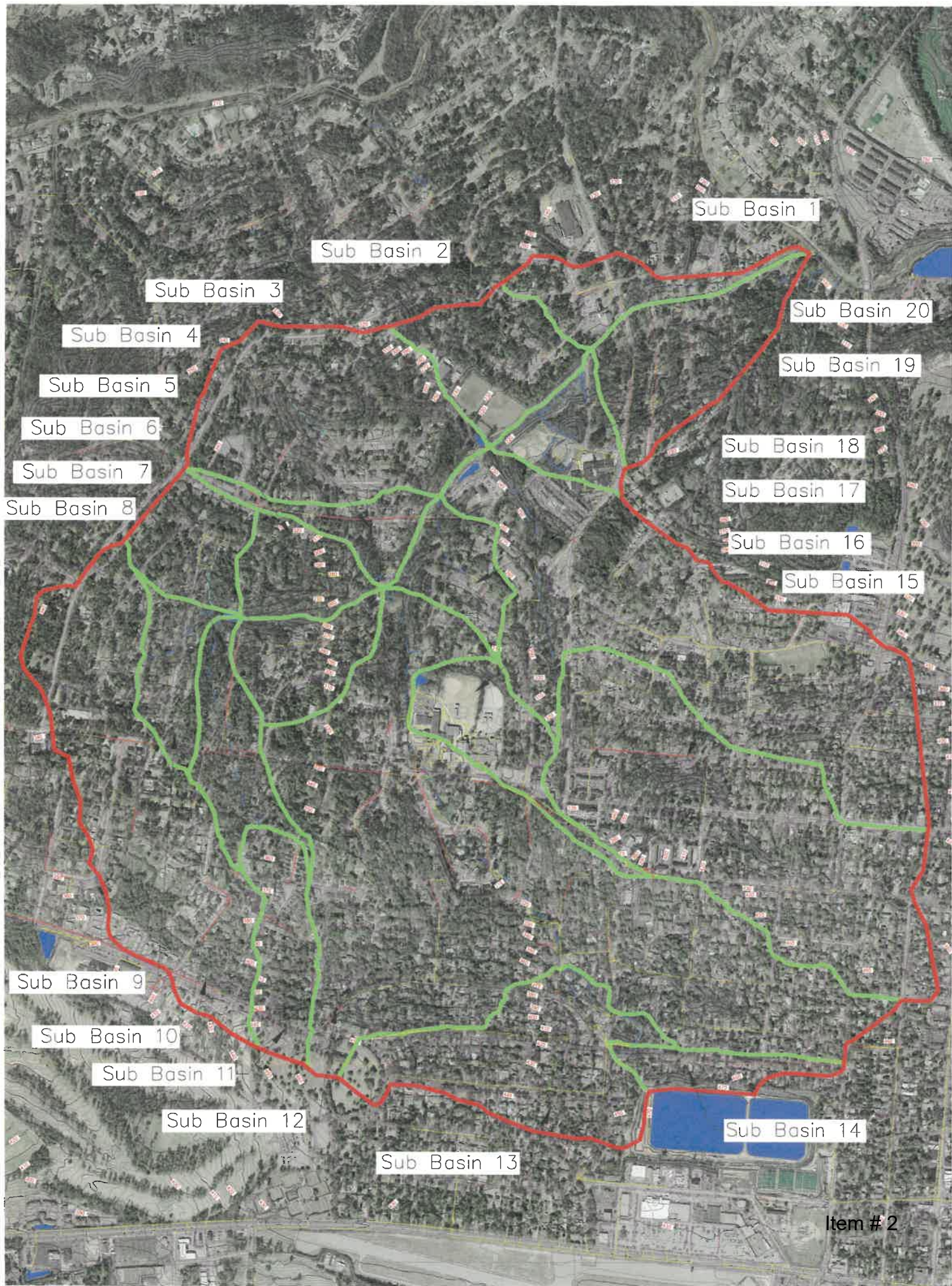




Figure 2: Summary of Goshen Subbasins

Stormwater System Inventory Turpin Hills / Laney Walker Neighborhood

Legend

Stormwater Structures Inspected

Inspection Status

- Complete
- Not Complete
- Other

Old Stormwater Line

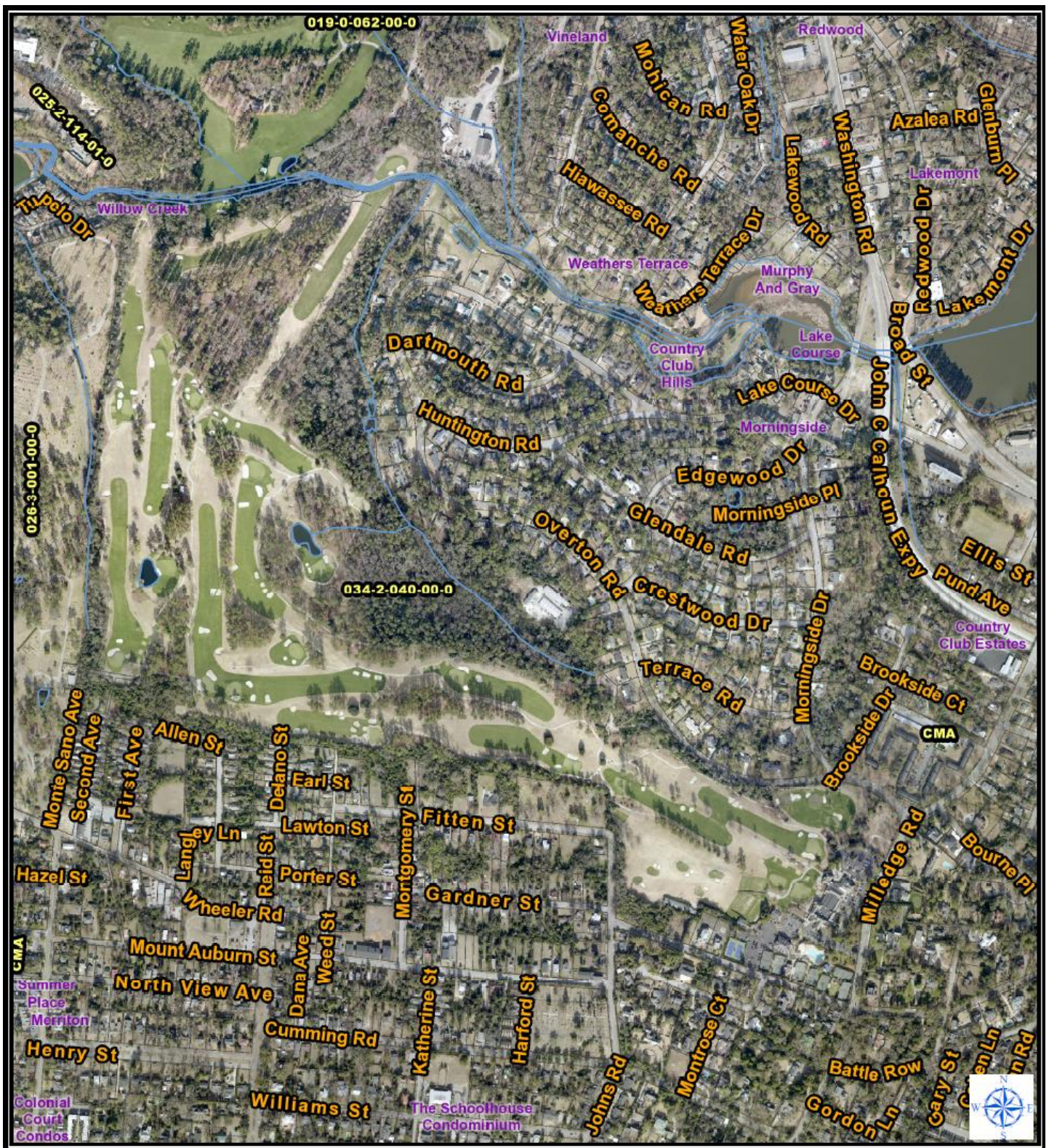
Pipe Inspection Status

- Complete
- Not Complete
- Other

Inventory Boundary

Flooding Hot Spots





Stream Bank Rehab & Restoration

FILE NAME: \\switchblade\Projects\201\200722\SANDP\PER LANE\04 DRAWINGS\04 02 CAD\CS-100.dwg PLOTTED: Friday, January 15, 2021

D
C
B
A

1

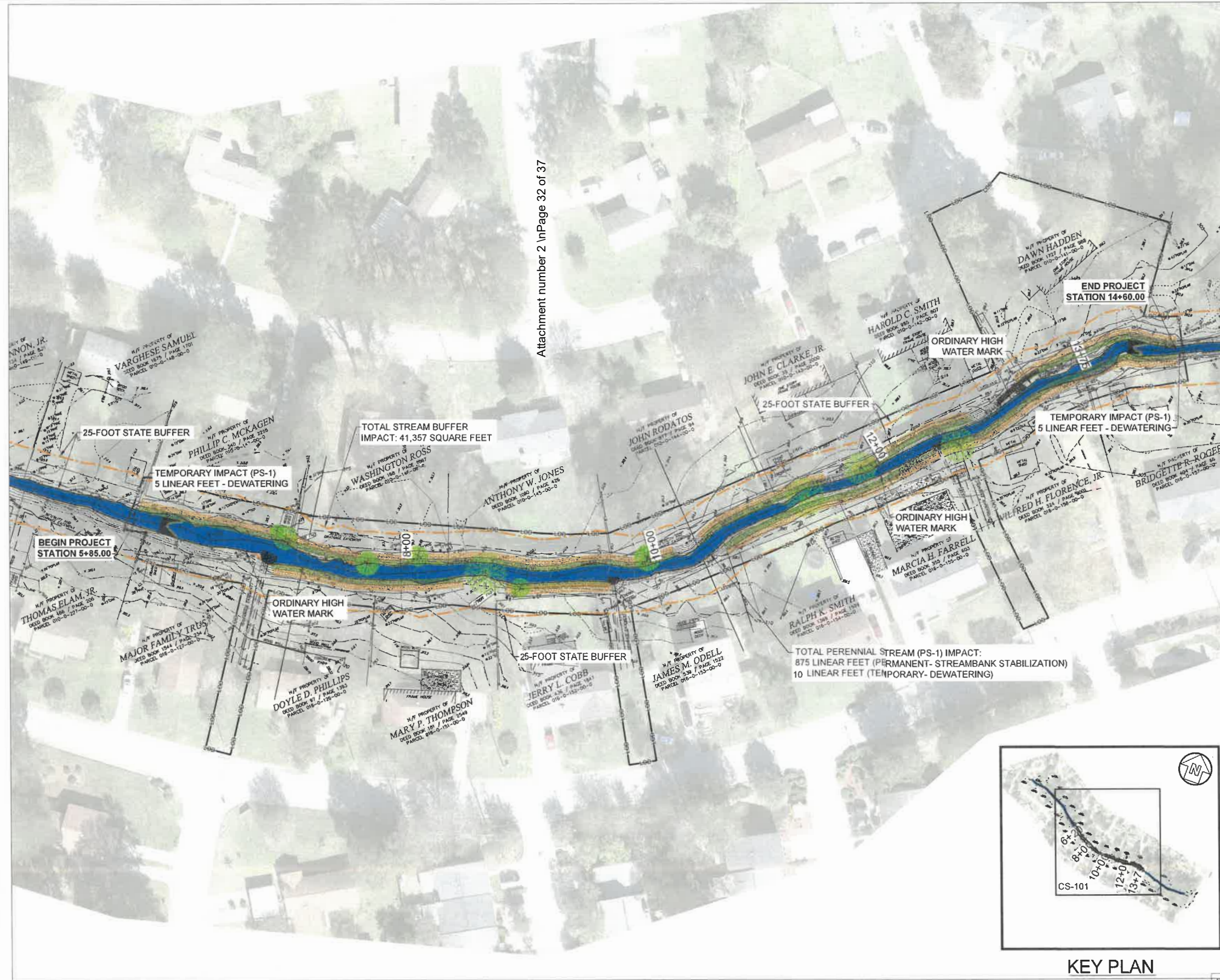
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3

4

5

Attachment number 2 in Page 32 of 37



GENERAL SHEET NOTES

1. REFER TO SHEETS C-001, CE-005, V-001, AND V-002 FOR LEGEND, ABBREVIATIONS, AND CIVIL NOTES.
2. THIS SHEET IS PART OF A MULTI-SHEET SET OF CONSTRUCTION PLANS AND SHALL BE READ WITH THE FULL SET TO BEST ENSURE PROPER INTERPRETATION.

CONSTRUCTION SEQUENCE

1. OBTAIN ALL APPLICABLE PERMITS, TEMPORARY EASEMENTS, AND/OR LANDOWNER PERMISSION.
2. CONTRACTOR SHALL SCHEDULE A PRE-CONSTRUCTION CONFERENCE WITH THE CITY OF AUGUSTA AND POND & COMPANY PRIOR TO THE COMMENCEMENT OF WORK.
3. NOTIFY THE USACE, GEORGIA EPD, AND CITY OF AUGUSTA AT LEAST 48 HOURS PRIOR TO BEGINNING CONSTRUCTION. NOTIFY POND & COMPANY AND THE CITY OF AUGUSTA PROJECT MANAGER OF THE PROPOSED CONSTRUCTION COMMENCEMENT CONCURRENTLY.
4. CLEARING, GRUBBING, AND DEMOLITION ONLY AS NECESSARY FOR INSTALLATION OF PERIMETER EROSION AND SEDIMENTATION CONTROL BEST MANAGEMENT PRACTICES PER SHEET CE-101. ALL TEMPORARY BEST MANAGEMENT PRACTICES WILL BE INSTALLED PRIOR TO BEGINNING ANY LAND DISTURBING ACTIVITIES.
5. INSTALLATION OF PERIMETER EROSION AND SEDIMENTATION CONTROL BEST MANAGEMENT PRACTICES (E.G. CONSTRUCTION ENTRANCES, CONSTRUCTION CONCEALMENT FENCE, SILT FENCE, CURB INLET PROTECTION, FILTER SOCK, ETC.) PER SHEET CE-101.
6. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING CONSTRUCTION STAKEOUT OF THE LIMITS OF DISTURBANCE, PROPOSED STREAM STABILIZATION, AND ASSOCIATED STRUCTURES.
7. INSTALL ANY AND ALL REMAINING BEST MANAGEMENT PRACTICES SHOWN ON SHEET CE-101.
8. INSTALL AND/OR STAGE ALL BEST MANAGEMENT PRACTICES AS SHOWN ON THE INTERMEDIATE PHASE OF THE EROSION AND SEDIMENTATION CONTROL PLAN (SHEET CE-201).
9. STAGE THE CONSTRUCTION MATERIALS, WHERE IT IS NOT PRACTICAL TO STAGE THE MATERIAL PRIOR TO CONSTRUCTION ACTIVITY, THE MATERIAL WILL BE STOCKPILED AT STRATEGIC STOCKPILE LOCATIONS OUTSIDE OF THE IDENTIFIED JURISDICTIONAL STREAM BOUNDARY AND STATE REGULATED STREAM BUFFER.
10. INSTALL AND OPERATE PUMP AROUND (AS NECESSARY) TO DIVERT WATER AROUND PROJECT SITE WHEN WORKING IN AND AROUND THE EXISTING STREAM CHANNEL. THE PROJECT SHALL BE COMPLETED IN SEGMENTS AS SHOWN ON THE EROSION AND SEDIMENTATION CONTROL PLAN INDICATED BY PUMP AROUND PLACEMENT. ONCE A SECTION OF THE STREAM INSTALLATION ACTIVITIES ARE COMPLETE, THE CONTRACTOR SHALL PROCEED TO FINAL STABILIZATION ACTIVITIES PER THE INTERMEDIATE AND FINAL PHASES OF THE EROSION AND SEDIMENTATION CONTROL PLAN (CE-301 AND RV-101).
11. INSTALL PROPOSED STREAM STABILIZATION STRUCTURES PER PLAN AND DETAILS. COORDINATE WITH ON-SITE ENGINEER'S REPRESENTATIVE FOR IN-FILED CHANGES, AS NECESSARY.
12. CONTRACTOR SHALL ONLY CONSTRUCT WHAT CAN BE TEMPORARILY STABILIZED DURING THAT DAY OF WORK.
13. IT IS EXPECTED THAT STRUCTURE PLACEMENT AND INSTALLATION MAY NEED TO BE ADJUSTED IN THE FIELD. CONTRACTOR SHALL COORDINATE WITH ON-SITE ENGINEER'S REPRESENTATIVE PRIOR TO FINALIZING INSTALLATION.
14. ONCE STRUCTURE INSTALLATION IS COMPLETE, CONTRACTOR SHALL IN-FILL EXISTING CHANNEL WITH STOCKPILED NATIVE CHANNEL MATERIALS AND DIVERT WATER INTO THE PROPOSED STREAM CHANNEL ALIGNMENT.
15. IF STRUCTURE TYPE IS ADJUSTED, CONTRACTOR SHALL COORDINATE WITH ON-SITE ENGINEER'S REPRESENTATIVE PRIOR TO FINALIZING INSTALLATION.
16. INSTALL TOPSOIL TO A MINIMUM DEPTH OF 4-INCHES TO ALL DISTURBED AREAS SUITABLE FOR PLANTING.
17. FINE GRADING AS NECESSARY TO ACHIEVE A UNIFORM SURFACE FREE OF ROOTS, DIRT CLUMPS, AND WOODY DEBRIS.
18. INSTALL SPECIFIED PERMANENT VEGETATION AND PERMANENT SEEDING ACCORDING TO SHEETS CE-301 AND RV-101.
19. STABILIZE ALL DISTURBED AREAS WITH SPECIFIED PERMANENT SEED MIX AND STRAW MULCH TO ACHIEVE FINAL (PERMANENT) STABILIZATION, WHICH IS DEFINED AS, "100% OF THE SOIL SURFACE IS UNIFORMLY COVERED IN PERMANENT VEGETATION WITH A DENSITY OF 70% OR GREATER."
20. REMOVE TEMPORARY EROSION AND SEDIMENTATION CONTROL MEASURES AFTER THE ENTIRE AREA IS PERMANENTLY STABILIZED.
21. NOTIFY THE CITY OF AUGUSTA AND POND & COMPANY FOR FINAL INSPECTION.
22. CONTRACTOR SHALL PERFORM AS-BUILT SURVEY TO DOCUMENT STRUCTURE PLACEMENT WITHIN THE PROJECT REACH. CONTRACTOR SHALL COORDINATE WITH POND & COMPANY TO ENSURE THAT AS-BUILT SURVEY IS COMPLETED TO THEIR SPECIFICATIONS.
23. AFTER CONSTRUCTION SITE HAS ACHIEVED FINAL STABILIZATION, CONTRACTOR TO COORDINATE WITH POND & COMPANY TO SUBMIT NOTICE OF TERMINATION (NOT) TO GEORGIA EPD TO CLOSE OUT THE CONSTRUCTION NPDES PERMIT. CONTRACTOR TO NOTIFY POND & COMPANY AND THE CITY OF AUGUSTA OF PROJECT COMPLETION SO THAT PROPER DOCUMENTATION MAY BE SUBMITTED TO THE USACE.

KEY PLAN



DESIGN PROFESSIONAL:
JEREMY DEAN, CPESC
LEVEL II CERTIFICATION
NO.: 0000029488
EXPIRES: 02/03/2022



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Or Call 800-282-7411

ISSUED FOR REVIEW



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DATE	DESCRIPTION	APPR.
12/04/2020	ISSUED FOR 90% REVIEW	JD
07/15/2021	ISSUED FOR BID	JD
03/10/2021	ISSUED FOR PERMITTING	JD
11/05/2021	ISSUED FOR REVIEW	JD

THE CITY OF AUGUSTA GEORGIA		DESIGNED BY:	DATE:		
		JD	10/02/2020		
ENGINEERING DEPARTMENT		OWN BY:	SOLICITATION NO.:		
RICHMOND COUNTY, GA		KAD			
		CHKD BY:	CONTRACT NO.:		
		WFB			
		SUBMITTED BY:	FILE NUMBER:		
		CHM			
POND		PLOT SCALE:	PLOT DATE:		
2005 Peachtree Lake, Suite 400		AS SHOWN	01/15/2021		
Peachtree Corners, GA 30092		SIZE:	FILE NAME:		
Tel: 800-282-7411		ANSI D			
Fax: 770-335-7714		ES-100 DWG			
JOS/PCS 120072					

THE CITY OF AUGUSTA GEORGIA ENGINEERING DEPARTMENT SANDPIPER LANE STREAMBANK STABILIZATION RICHMOND COUNTY, GA	OVERALL SITE PLAN
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SHEET
IDENTIFICATION
CS-100

A1 OVERALL SITE PLAN
SCALE: 1" = 50'

EXHIBIT C
SWU FY2022 Approved Budget

4502		2022		2022	
581000000	Stormwater Utility	Requested		Approved	
		Budget		Budget	Difference
3442260	Stormwater Fees	13,902,000		13,902,000	0
3442270	Stormwater Fee Credit	(334,130)		(334,130)	0
3442330	Returned Check Fees	450		450	0
3442341	Bad Debt Recovery	7,750		7,750	0
3492101	Late Fees	298,390		493,790	195,400
3911230	Oper Trf fr ARPA-City	0		380,250	380,250
3911235	Op Tsfr fr TIA	0		10,300	10,300
3911371	Op Trsf from TIA	20,540		20,540	0
3911542	Op Tsfr from Garbage Collection	225,000		225,000	0
3911XXX	Op Trsf from ESD/Street Sweep	300,000		0	(300,000)
		14,420,000		14,705,950	285,950

6111631	GMA Lease Program	171,920		0	(171,920)
5111110	Perm Full-Time S&W-Regular	2,318,130		3,793,310	1,475,180
5111111	Perm Full-Time S&W-Comp Time	0		0	0
5111112	Perm Full-Time S&W-Sick Pay	0		0	0
5111113	Perm Full-Time S&W-Vacation	0		0	0
5113110	Perm Full-Time S&W-Overtime	65,820		65,820	0
5116120	Supplemental Pay	0		0	0
5121110	Health Insurance	591,390		599,020	7,630
5121120	Life Insurance	14,570		14,430	(140)
5121130	Long-Term Disability Insurance	9,210		9,230	20
5122110	FICA	247,090		247,520	430
5122120	Medicare	57,790		57,890	100
5123113	GMEBS Pension Plan	283,630		284,500	870
5123114	1998 DC Plan	3,380		3,370	(10)
5127110	Workers Compensation	0		0	0
5129110	Auto Allowance	1,500		1,500	0
5129998	Personnel Exp Reclass	41,150		380,250	339,100
5211110	Management Consultants	250,000		50,000	(200,000)
5211113	Collection Services	5,000		5,000	0
5211116	Admin Fee - Utilities	192,270		192,270	0
5211120	Contractual Services	5,441,720		4,716,650	(725,070)
5212111	Surveyors	700		700	0
5212115	Engineering	185,000		50,000	(135,000)
5212999	Other Professional Services	30,000		15,000	(15,000)
5213118	Environmental Testing	156,000		100,000	(56,000)
5213119	Other Technical Services	2,900		0	(2,900)
5221210	Mosquito Contract Svcs	485,000		485,000	0
5222140	Landfill Fees (Backcharge Only)	35,000		35,000	0
5222199	Other Disposal	65,000		60,730	(4,270)
5222510	Security Services	200		200	0
5223110	Repairs and maintenance	60,800		60,800	0

4502		2022		2022	
581000000	Stormwater Utility	Requested		Approved	
		Budget		Budget	Difference
5223111	R&M-Contract-Buildings	10,290		10,290	0
5224219	Other Equip or Veh Rental	225,000		189,000	(36,000)
5232111	Telephone - Other	1,300		1,300	0
5232112	Cellular Phone	32,000		30,000	(2,000)
5232119	Other Communications Equip	3,880		0	(3,880)
5233111	Legal Advertising	500		500	0
5234110	Printing and binding	1,000		0	(1,000)
5236110	Membership Dues	1,000		500	(500)
5237110	Education & Training	33,000		33,000	0
5238110	Licenses	9,900		9,910	10
5239112	Temporary Workers	6,500		6,500	0
5311110	General supplies and materials	7,500		5,510	(1,990)
5311111	General Office Supplies	9,000		9,000	0
5311211	Copy Services - Paper	1,000		250	(750)
5311212	Copy Services-Other Supplies	1,600		0	(1,600)
5311410	Uniforms	16,000		16,000	0
5311420	Safety Supplies	5,300		5,330	30
5311750	Grass	10,000		5,000	(5,000)
5311816	Program Supplies	20,000		0	(20,000)
5311915	Computer Hardware Supplies	5,660		2,830	(2,830)
5311916	Computer Software Supplies	6,920		3,460	(3,460)
5312110	Water and Sewerage	3,550		3,550	0
5312210	Natural Gas	1,510		1,510	0
5312310	Electricity	15,660		7,830	(7,830)
5312710	Gasoline	90,000		69,020	(20,980)
5312720	Diesel	220,000		156,150	(63,850)
5316110	Small Equipment	16,820		8,580	(8,240)
5316120	Telephones under \$500	0		0	0
5316150	Furniture under\$5000	13,000		12,790	(210)
5316220	Desktop Equipment < than \$5000	5,900		5,900	0
5316230	Laptops less than \$5000	2,180		1,090	(1,090)
5316250	Peripherals less than \$5000	0		0	0
5317920	Tools for Inmate Labor	6,500		6,500	0
5399999	Other Supplies	5,000		5,000	0
5414910	Other Infrastructure	6,570		0	(6,570)
5421110	Machinery/Equipment	532,675		165,500	(367,175)
5422210	Trucks, All Sizes	541,475		205,900	(335,575)
5424120	Software	50,770		50,770	0
5512110	Vehicle Cost Alloc-Contract	253,740		232,740	(21,000)
5512111	Vehicle Cost All-NonContract	415,430		410,000	(5,430)
5531111	Print Shop Charges	200		100	(100)
5542110	Payment in Lieu of Taxes	0		0	0
5542210	Payment in Lieu of Franchise	0		0	0
5611110	Depreciation	580,000		655,810	75,810

4502		2022		2022		
581000000	Stormwater Utility	Requested		Approved		Difference
		Budget		Budget		
5731110	Bad Debt Expense	763,250		763,250		0
5119910	Lapsed Salaries	(450,000)		(450,000)		0
5129996	Health Ins ARP-Reimbursement	(72,090)		(36,050)		36,040
6011150	New Personnel/Upgrades	0		515,730		515,730
5511101	IDC-GF Allocation	231,850		278,070		46,220
6111616	Employee Health Benefits Fund	63,320		79,470		16,150
5121110	Health Insurance	170		170		0
		14,420,000		14,705,950		285,950