

 <p>CLAYTON COUNTY Water AUTHORITY</p> <p>1600 Battle Creek Road, Morrow, GA 30260</p>	Flint River Outfall Replacement Phase 4	
	ADDENDUM # 1	
	DATE	Thursday, January 20, 2022
	RFB NUMBER	2022-PME-02
	RFB OPENING DATE - REVISED	Tuesday, February 15, 2022, at 2:00 p.m. local time

REVISIONS:

1. Revision to Bid Opening Schedule:

The bid opening date has been postponed to **Tuesday, February 15, 2022, at 2:00 p.m. local time.** Please replace the Request for Bid documents' Cover Page, and Division 1 Section 1 with the revised pages provided with this Addendum. Revisions are highlighted in yellow.

2. Replace page 4-3.30 of the RFB documents with the revised page 4-3.30R provided with this addendum.

Revision was made indicating the height of stone to be installed above the pipe. Revision is highlighted in yellow.

3. Replace the Construction Plan drawing included in the RFB documents with the Revised Construction Plan, provided with this Addendum on the last page. Revisions were made to the following drawing:

Drawing No.	Sheet No.
P-11	14 of 29

QUESTIONS:

1) If rock or other obstruction is encountered in Cased Crossing No. 1, how will this obstruction removal be paid for in order to complete the work?

Answer: Review Geotechnical Report attached as part of the RFB document. The Report indicates hard resistance, likely boulder fill, being encountered in the Cased Crossing No. 1 alignment. During the crossing design, required to be completed by the contractor, measures and costs should be included to remove such obstructions as boulders. Other obstructions, not expected to be found in such a location, will be removed by the contractor and the expense will be negotiated with CCWA.

2) Can Test Boring Record SB-8 be provided that is shown near STA 70+40?

Answer: Review Geotechnical Report attached as part of the RFB document; Soil Boring SB-8 was not performed. Soil Boring SB-8 was shown on the Construction Drawings but was not installed.

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3) When will CCWA-furnished HOBAS pipe be available to construct the project?

Answer: Pipe for the project was ordered in December 2021. CCWA anticipates the pipe for the project will be available in mid-summer 2022 by the time pipe installation work starts.

4) What distance to houses or buildings from construction easement is vibration monitoring required?

Answer: The RFB document provides no required distance to a structure. Contractor should follow industry standards of when vibration monitoring is required.

5) Will steel casing, casing spacers and end seals for open cut casing be provided by CCWA?

Answer: No. Refer to Division 4, Sections 2.6, 2.7 and 2.8.

6) Can you provide a copy of the Pre-Bid Meeting Agenda?

Answer: Yes. The agenda is provided on pages 6 through 8 of this Addendum.

7) Can I get a copy of any addenda that have been released to date?

Answer: No previous addenda has been issued.

8) What is the estimated construction budget?

Answer: The construction budget is \$9.06 million, and includes contracted services, materials and services during construction.

9) Can I get a copy of the updated planholder list or prebid sign in sheet?

Answer: Both the planholders list and the Pre-Bid meeting sign-in-sheet are provided on pages 9 through 12 of this Addendum.

<i>Acknowledgment of receipt of this addendum must be signed and included in your submittal response.</i>	
COMPANY NAME	
SIGNATURE	
DATE	



FLINT RIVER OUTFALL REPLACEMENT - PHASE 4

Bid Number 2022-PME-02

December 2021

Virtual Teams

Bid Opening Meeting:

Tuesday, February 15, 2022, at 2:00 p.m. local time

Virtual Teams

Non-Mandatory Pre-Bid Meeting: **Wednesday, January 12, 2022, at 2:00 p.m. local time**

Non-Mandatory Site Visits:

Wednesday, January 12, 2022, at 3:00 p.m. local time

Staging Area No. 1 (Garden Walk Blvd right-of-way, across the street from 6285 Garden Walk Blvd)

Staging Area No. 2 (Left parking lot at 6234 Garden Walk Blvd)

Staging Area No. 3 (GA Hwy 85 right-of-way, across the street from 5455 W Lees Mill Rd)

Staging Area No. 4 (GA Hwy 85 right-of-way, at 5455 W Lees Mill Rd)

This project will be funded by the State Revolving Loan Fund (SRLF) and will be subject to Georgia Environmental Finance Authority (GEFA) General and Special Requirements, which includes a Disadvantaged Business Enterprise (DBE) goal.

Division 1

General Information

Section 1: Request for Bids – Revised

Clayton County Water Authority
1600 Battle Creek Road
Morrow, Georgia 30260

Name of Project: **Flint River Outfall Replacement - Phase 4**

The Clayton County Water Authority will open sealed bids from licensed contractors via a Virtual Teams Meeting on **Tuesday, February 15, 2022, at 2:00 p.m. (local time)** for the **Flint River Outfall Replacement - Phase 4** project. Any bids received after the specified time will not be considered.

A non-mandatory Pre-Bid virtual Teams Meeting followed by non-mandatory Site Visits will be held on **Wednesday, January 12, 2022, at 2:00 p.m. (local time)**. The Site Visits will be held at the following locations:

Staging Area No. 1 (Garden Walk Blvd right-of-way, across the street from 6285 Garden Walk Blvd)

Staging Area No. 2 (Left parking lot at 6234 Garden Walk Blvd)

Staging Area No. 3 (GA Hwy 85 right-of-way, across the street from 5455 W Lees Mill Rd)

Staging Area No. 4 (GA Hwy 85 right-of-way, at 5455 W Lees Mill Rd)

Please use the following call-in instructions to attend the Pre-Bid and Bid Opening meetings:

[Join Microsoft Teams Meeting](#)

+1 912-483-5368

Conference ID: 714 018 261#

CCWA encourages Small Local, Minority and Women-Owned business to participate and respond to this bid request.

In an effort to promote responsible environmental practices a link to the bid package will be provided via email upon request by calling **770-960-5223**, M-F, 8:00 am - 5:00 pm, or by e-mailing **CCWA_Procurement@ccwa.us**. A hardcopy bid package can also be requested at a cost of \$200.00.

By: Robert Malone, Chairman
Clayton County Water Authority

END OF SECTION

Division 4

Specifications

Section 3: Construction Standards

consolidated using any means from beneath the pipe up to one-half (1/2) the pipe diameter prior to placing subsequent backfill. The entire length of barrel shall be fully supported with stone.

- C. Stone shall be used to backfill pipe to a height of ~~six (6)~~ **twelve (12)** inches above the top of the pipe.
- D. When installing pipe in areas of excavated rock, pipe shall be placed on a bed of stone, minimum six (6) inches in depth.
- E. Soil determined to be unsuitable by the CCWA Inspector shall be removed to a determined depth and replaced with stone to desired grade.

3.8.2 Pipe Installation

- A. This section requires the Contractor to provide documents to CCWA.
- B. Comply with manufacturer's installation instructions.
- C. Contractor shall submit for manufacturer approval, a material/ assembly that will protect pipe's end where force is applied for jointing purposes. Contractor will provide CCWA a copy of the manufacturer's approval.
- D. Contractor shall submit a pipe schedule for approval showing the locations for using cut pieces from tangents to other tangents to cut down on pipe waste.
- E. Install pipe of material type and size as shown on the Construction Details or Construction Drawings.
- F. Prior to placement, the interior of pipes and fittings shall be cleaned free of dirt and debris.
- G. Pipe, fittings and accessories shall not be laid or jointed in water.
- H. Pipe, fittings and accessories shall be handled and lowered into their respective positions using choker straps.
- I. A slight hole shall be dug where pipes are to be jointed to relieve pipe bell of any load. Pipe barrel shall be supported for its entire length.
- J. The pipe mating ends shall be thoroughly cleaned and soaped before jointing. The mating ends shall be aligned in accordance with the

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CLAYTON COUNTY WATER AUTHORITY

NON-MANDATORY PRE-BID VIRTUAL TEAMS MEETING AGENDA FOR

Flint River Outfall Replacement Phase 4

Wednesday, January 12, 2022, at 2:00 p.m.

Sign-In / Introductions

For those attending a virtual meeting, use the "chat" feature of the Teams application to provide your name, the company you are representing and your email address. If you are participating via phone call, you may provide your contact information via email at ccwa_procurement@ccwa.us. We will try our best to include all of the meeting attendees on the sign-in sheet, which will be posted in our website within the next 24-48 hours.

We will be muting everyone in the meeting from this point forward. Should you need to unmute yourselves with questions, please press * 6, or use the Teams chat application.

Note

Any statements expressed in this meeting are non-binding. Any questions a bidder may have shall be answered by reviewing the Request for Bid documents, or by submitting the questions in writing via email to ccwa_procurement@ccwa.us for formal responses. CCWA will provide responses to all questions via an addendum, which will be posted in the CCWA website.

Project Overview

The Clayton County Water Authority intends to contract with an experienced licensed utility contractor to complete the Flint River Outfall Replacement – Phase 4 Project. The purpose of the Project is to install approximately 11,780 linear feet of new 30-inch and 24-inch gravity-flow sanitary sewer replacing an existing 27-inch, 21-inch and 18-inch gravity-flow sanitary sewer. Multiple reconnections of smaller existing sewers will be required to complete the work.

The majority of the new sanitary sewer work will be completed in the same location and alignment as the existing sanitary sewer using standard excavation techniques and trenchless techniques. The Specifications and the Construction Drawings describe the details of the work to be completed.

Non-Mandatory Site Visits will take place at **3:00 p.m.** at the following locations:

Staging Area No. 1 (Garden Walk Blvd right-of-way, across the street from 6285 Garden Walk Blvd).

Staging Area No. 2 (Left parking lot at 6234 Garden Walk Blvd).

Staging Area No. 3 (GA Hwy 85 right-of-way, across the street from 5455 W Lees Mill Rd).

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**Non-Mandatory Pre-Bid Virtual Teams Meeting Agenda For
Flint River Outfall Replacement Phase 4**

Georgia Environmental Finance Authority

Funding for this project is through the Georgia Environmental Finance Authority (GEFA). The GEFA Supplemental General Conditions for Federally Assisted State Revolving Loan Fund Construction Contracts, dated May 9, 2014, as well as the GEFA American Iron and Steel Special Conditions and Information dated April 11, 2014, included as part of these Contract Documents as Attachments A and B, shall be adhered to by all parties. Bidders shall refer to Attachments A and B, and to Division 2, Section 3 of this RFB document for information on the GEFA required bid submittals.

Bid Evaluation

A contract will be awarded to the lowest responsive responsible bidder whose bid conforms to the Request for Bid specifications and will be the most advantageous to the CCWA. An evaluation will also be performed to ensure bidder complies with the required submittals. Determination of best responsive responsible bidder will be the sole judgment of the CCWA. To be considered responsive to this bid, bidders are required to bid on all work items listed on the "Bid Form", and complete and provide all required bid submittals as listed on the "Bid Submittal Requirements".

Bid Submittal Requirements

The following items are required to be included as part of the bid submittal. Failure to include any of these items may result in the bid being deemed non-responsive. The required items include but are not limited to:

- A. Bid Form – Bidders must submit their completed and signed Bid Form.
- B. Georgia Bid Bond in the amount of five percent (5%) of the total bid amount.
- C. Bidder Qualification Information Form.
- D. References.
- E. Georgia Security and Immigration Compliance Act of 2006 form.
- F. Contractor Affidavit and Agreement form.
- G. Subcontractor Affidavit form.
- H. GEFA Forms per the Supplemental General Conditions (see Attachment A):
 - 1. DBE Compliance Form and related documentation.
 - 2. Certification Regarding Equal Employment Opportunity.
 - 3. Certification Regarding Debarment, Suspension, and Other Responsible Matters.
 - 4. EPA Forms 6100-3 and 6100-4 (unless ALL of the work is self-performed by the prime contractor).
- I. Copies of any and all license(s) required to perform the work.
- J. Non-Collusion Certificate.
- K. Certification of Absence of Conflict of Interest for Development of Specifications of Scope of Work.

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**Non-Mandatory Pre-Bid Virtual Teams Meeting Agenda For
Flint River Outfall Replacement Phase 4**

- L. W-9 Form.
- M. Vendor Information Form.
- N. Copies of any and all license(s) required to perform the work.
- O. Addenda (if any).

Post award insurance requirements

After award, the successful contractor must be able to provide certificate of liability insurance and endorsements that meet the following CCWA requirements:

- a. Clayton County Water Authority (along with its address of 1600 Battle Creek Road, Morrow, GA 30260) needs to be listed as the "Certificate Holder" at the bottom left corner of the certificate.
- b. Provide a separate endorsement adding CCWA as an additional insured on the GL coverage or a copy of your GL policy verifying the blanket additional endorsement. Please note an "additional insured" clause on the certificate is not acceptable.
- c. Submit a separate endorsement providing a 30-day cancellation notice on all policies. Please note a standard cancellation clause on the certificate is not acceptable.

For more details, refer to Division 2, Section 2 – "Risk Management Requirements" of the bid/proposal package.

Bid Schedule

Deadline for Questions	Friday, January 14, 2022, at 2:00 p.m. local time
Issue Last Addendum	Friday, January 21, 2022, at 2:00 p.m. local time
Bid Opening	Thursday, January 27, 2022, at 2:00 p.m. local time
Anticipated Board Award	Thursday, March 3, 2022

Questions

For formal responses, all questions must be emailed to the ccwa_procurement@ccwa.us. Questions will be answered in the form of Addenda which will be provided via email to the vendor list, and also posted on our website at www.ccwa.us.

Final Note

As a reminder, please use the Chat feature of the Teams application to provide your name, the company you are representing and your email address. If you are participating via phone call, you may provide your contact information via email at ccwa_procurement@ccwa.us. A sign-in-sheet will be posted on our website at www.ccwa.us within the next 48 hours.



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Flint River Outfall Replacement Phase 4

ADDENDUM # 1

DATE	
RFB NUMBER	2022-PME-02
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FLINT RIVER OUTFALL REPLACEMENT - PHASE 4 - VENDOR LIST

Company Name	Phone	Contact Person	Contact email address
ADC & Associates, Inc.	678-898-4403	Brenda B. Elliott	belliottd@adcandassociates.com
Advanced Drainage systems, Inc.	561-221-9007	Cate Kiever, E.I.	Catherine.Kiever@ads-pipe.com
AllSouth Construction, Inc.	770-788-8703	Brad Bettis	jbballsouth@bellsouth.net
American Contractors Grading and Paving, Inc.	(770) 883 9415	Tim Replogle	tim@amcontractors.net
American Pipe			jmccullough@american-usa.com
Astra Grading and Pipe		Kyle Wright	kwright@astragroupinc.com
Astra Group Inc.	770-992-9300	Christian Long	clong@astragroupinc.com
Ballard MC			colin.braun@BallardMC.com
BHF Technology	404-692-1623	Sharonda Hubbard	trenchless@bhftech.com
Brent Scarbrough & Company Inc.	770-461-8603		info@brent.us
Brown Electrical Services			brownelectricalservices@gmail.com
BRTU Construction, Inc.	404-228-9074	Sint Areda	sint@brtuconstruction.com
Calenn Construction & Rehabilitation Services, Inc.	912-458-3747	Christy Jennings	cristy@cajenn.com
Cantsink of Atlanta			rvan@cantsink.com
Celebrity Fence Co., Inc.	770.507.8611	Dee Jones	cfc@cs.com
CHARTER CONSTRUCTION SERVICES, INC.			kay@chartercs.com
Cheoah Construction			iimass2@gmail.com
Civil Works		Sharukh Mohammed	sharukh@civilworks.us
CJ HEARNE CONSTRUCTION			cihearneconst@bellsouth.net
Classic City Utility, Inc.	706-742-8041	Michael C. Gibson	mikeclassiccity@yahoo.com
Cleary Construction	270-487-1784	Taylor McMann	estimating@clearyconst.com
Cleary Construction Inc.	270.487.1784 ext. 73	Mary Jo Spurlock	estimating@clearyconst.com
Cleveland Carter Enterprises, Inc	404-209-7422	Cleveland Carter	admin@cceatlanta.com
CMES, Inc			Pravin.P@cmesinc.net
ConstructConnect	323.602.5079	Gwen Tanghal	gwen.tanghal@ConstructConnect.com
CTC Construction, LLC	404-343-2061	Gregory Wynn	greg@ctcconstruct.com
Development Site Services Inc.	678-870-3774	Leigh Ann Green	lgreen@developmentsiteservices.com
Dodge Data & Analytics		Kathy Conrad	kathy.conrad@construction.com
Double P Grading Inc.			Eddie@doublegradinginc.com
Eagle Excavation Inc.	678-244-8660	Al Daniel	al@eaplexinc.com
Foley Products Company	(678) 854-1848	Bill Meier	bmeier@foleyproducts.com
Frankie Thompson Enterprises, Inc.	770-948-8337	Frankie Thompson	frankie@frankiethompson.com
Garney Construction	(770) 754-4141	Eric Malvin	bpape@garney.com; atlestimating@garney.com
Georgia Development Partners			MMelton@edobuilds.com
Gibsons Grouting		Dennis Boley	dholey@gibsonsgROUTING.com
GS Construction, Inc.	678-377-8028	A. Salvo	hquinn@gsconstruction.net
Hall Construction	770-616-7531		Hallconst1@aol.com
Haren Construction Company, Inc.		Suzi Drumright	sdrumright@harenconstruction.com
Helix Group			admin@helixgroupinc.com
Insituform Technologies	615.967.8462	Ryan Miller	RMiller@aeion.com
Integrated Construction Management, Inc.	770-864-5237	Consuella Bennett	sque@icmworks.net
isec Engineering	843-593-0242	Caleb Wright, PE	cwright@ISEC.engineering
J. G. Leone Enterprises, Inc.	678-644-8941	Joseph G. Leone	jgl@jgleone.com
JDS Inc.			hmerrill@idspipe.com
JDS Inc.	(770) 714-7597	Hank Merrill	hmerrill@idspipe.com
John D Stephens, Inc.	770-972-8000	Hank Merrill	mmontgomery@johndstephens.com
K.M. Davis Contracting Co., Inc.	770-434-0095	Mr. Daniel Dupont	montebeasley@bellsouth.net
Kemi Construction Co., Inc.	404-392-4400	Ms. Verna Akinpelu	vakinpelu@kemiconstruction.com
Ken Blair		Ken Blair	kwblair@aol.com
Kiewit			Audrey.Danbury@kiewit.com
L.T. & Associates, LLC	770-572-1356	Lester Thompson	ltandassociates@bellsouth.net
Layne Heavy Civil	404-323-7646	Tim Dunn	tim.dunn@layne.com
Legacy Water Group, LLC	678-712-5245	Jeff Klebowski	jklebowski@legacywatergroup.com
Lewis Contracting Services, LLC	770-482-4001	James Lewis	jlewis@lewiscontractingservices.com
Loris Transportation			info@loristransportation.net
McIntyre Fencing Co.	770-227-2109	Johnny McIntyre	linda@mcintyrefence.com
Metals & Materials Engineers, LLC	678-730-2000	Barry Bennett	bbennett@mmelab.com
MHR International, Inc.	404-880-9602	Michael H. Ross	mross@mhrinternational.com
Mid-South Builders, Inc.	770-484-9600	Ron Grice	khwardchatham@aol.com



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Flint River Outfall Replacement Phase 4

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FLINT RIVER OUTFALL REPLACEMENT - PHASE 4 - VENDOR LIST

Company Name	Phone	Contact Person	Contact email address
Moorhead Construction	(864) 338-0888		office@moorheadconstruction.com
Moorhead Construction	864-338-0888	Beth Holbrooks	beth@moorheadconstruction.com
Moorhead Construction	864-934-9642	Kevin Moorhead	kmoorhead@moorheadconstruction.com
Morgan Contracting, Inc.	865-249-8640 ext 1C	Teasha Bayles	tbayles@morgan1.com
Multi-Energy Group, LLC	770-587-0725	Jeanne Simkins Hollis	ishollis@multienergygroup.com
North Georgia Pipeline, Inc	706-867-1774	Sue Perry	sperry@northgeorgiaconcrete.com
North Georgia Pipeline, Inc.	706-867-1774	Sue Perry	SPerry@northgeorgiaconcrete.com
Oldcastle Precast			Bill.Meier@oldcastle.com
Rain For Rent	404-670-6099	Ken Tinnerman	ktinnerman@rainforrent.com
RAM Jack USA			arthur@ramjackusa.com
RDJE, Inc.	404-427-5775	Ed Shipley	EShipley@RDJEinc.com
Reeves & Young, LLC	770-271-1159	Eric Young	dwelch@reevesyoung.com
Reynolds Construction	770-969-4040	Sandra Murphy	sandra.murphy@reynoldson.com
Reynolds Construction	770-969-7070	Patrick Stalker	Patrick Stalker, Reynolds Construction
Rockdale Pipeline Inc.	770-231-0992	Shirley Cooley	srcooley@rockdalepipeline.com
Ruby-Collins	(816) 800-1379	Nathan Hancock	nhancock@ruby-collins.com
Ruby-Collins, Inc.	770-432-2900	Scott Cline	sccline@ruby-collins.com
Russo Corporation	(205) 923-4434	Jimmy Vaughn	jvaughn@russocorp.com
Site Engineering, Inc.	770-263-7234	Tamara L Isbell	tamara@siteengineeringinc.com
SoCo Contracting Company, Inc.		Michelle Joell	mjoell@soco-contracting.com
SoilTek	770.729.3456	Ann Hare	ahare@soitekga.com
Sol Construction, LLC	770-455-1822	Juliana Gomez	jgomez@solconstructionllc.com
Stephen Industries	770-545-1215	Chris Clark	cclark@stephensmds.com
Strack Inc.	770-969-1591	Jason Rainwater	meghanw@strackinc.com
Sunbelt Rentals			kebin.friel@sunbeltrentals.com
Swing Construction Company, Inc.	770-323-1446	Gerald Swing	swingco@gmail.com
T.W. Brown Contracting	O: 770-599-6339; C:	Chris Baker	chris@twbrown.com
TGS Construction Services	404-849-1708	Michael Sullivan	tsno@yahoo.com
The Blue Book Building & Construction Network			vbfulco@mail.thebluebook.com
The Corbett Group, LLC	770-947-2672	Michael Corbett	mcorbett@thecorbettgroup.net
The Renee Group	470-383-2858	Aaron Jefferson	Ajefferson@TheReneeGroup.com
Thompson Pipe Group	502-544-2449	Andrew L. Boer	aboer@thomsonpipegroup.com
Thomson Pump	850-381-3537	Ken Krause	kkrause@thomsonpump.com
Thrasher Contracting, LLC	404-799-7200	Michael Thrasher	mthrasher@thrashertrucking.com
TriScapes			mmontgomery@johndstephens.com
United Grading	404-831-3559	Brett Clay	Boiay@unitedgrading.com
United Grading	678-822-6629	Matt Stonica	Mstonica@unitedgrading.com
United Grading & Excavating	770-376-6008 off	C. Matticola	cmatticola@unitedgradine.com
Unity Construction Co., Inc.	770-943-9886	Alan Hamby	alanunity@bellsouth.net
Valken Construction		Josh Kennedy	Valkenconstructiongeneral@mail.com
Value Jetting Sewer & Drain	678-409-1781	Galon Presley	valuejetting@bellsouth.net
Wayne Davis Concrete			MCarson@waynedavisconcrete.com
WL Griffin Company	7063720211	Thomas Brown	thomas@wigriffincompany.com
YAH Group, LLC	678-694-1350	Victor A. Kuma	victorkuma@live.com



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CLAYTON COUNTY WATER AUTHORITY

Flint River Outfall Replacement Phase 4

Non-Mandatory Pre-Bid Virtual Meeting and Site Visit

Wednesday, January 12, 2022, at 2:00 p.m.

COMPANY NAME	REPRESENTATIVE	PHONE NUMBER	EMAIL ADDRESS
Astra Grading and Pipe	Kyle Wright		kwright@astragroupinc.com
Cleary Construction	Taylor McMann	270-487-1784	estimating@clearyconst.com
JDS Inc.	Hank Merrill	(770) 714-7597	hmerrill@jdspipe.com
Moorhead Construction	Beth Holbrooks	864-338-0888	beth@moorheadconstruction.com
Moorhead Construction	Kevin Moorhead	864-934-9642	kmoorhead@moorheadconstruction.com
Reynolds Construction	Patrick Stalker	770-969-7070	Patrick Stalker, Reynolds Construction
Ruby-Collins	Nathan Hancock	(816) 800-1379	nhancock@ruby-collins.com
United Grading	Brett Clay	404-831-3559	Bclay@unitedgrading.com
United Grading	Matt Stonica	678-822-6629	Mstonica@unitedgrading.com

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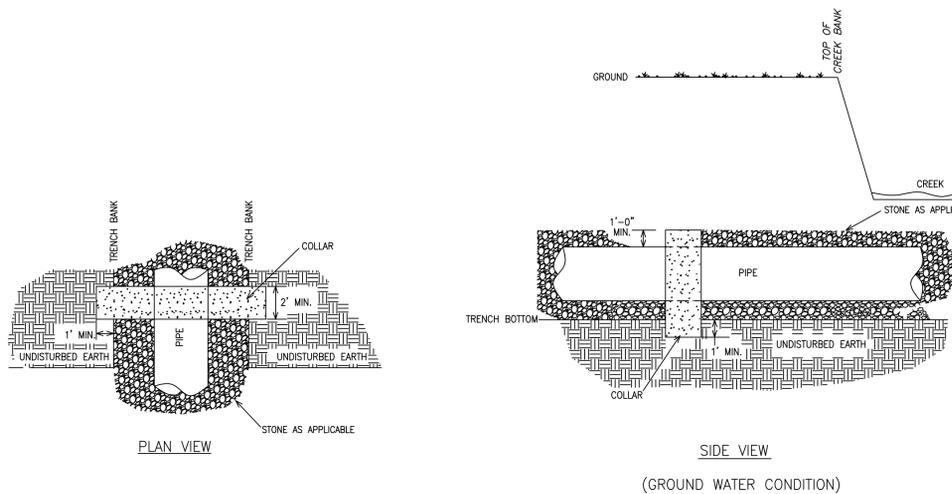
CLAYTON COUNTY WATER AUTHORITY

Flint River Outfall Replacement Phase 4

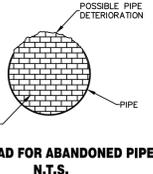
Non-Mandatory Pre-Bid Virtual Meeting and Site Visit

Wednesday, January 12, 2022, at 2:00 p.m.

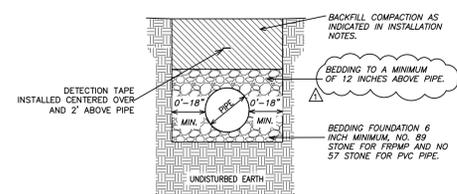
COMPANY NAME	REPRESENTATIVE	PHONE NUMBER	EMAIL ADDRESS
Valken Construction	Josh Kennedy		Valkenconstructiongeneral@mail.com
WL Griffin Company	Thomas Brown	7063720211	thomas@wlgriffincompany.com
CCWA	Clifford Beraset	770-960-5223	ccwa_procurement@ccwa.us
CCWA	Hilda Flores	770-960-5223	ccwa_procurement@ccwa.us
CCWA	Isabel Parrilla	770-960-5223	ccwa_procurement@ccwa.us
CCWA	Kathy Bogaert	770-960-5223	ccwa_procurement@ccwa.us
CCWA	Marcia Jones	770-960-5223	ccwa_procurement@ccwa.us
CCWA	Stan Court	770-960-5223	ccwa_procurement@ccwa.us



TYPICAL PIPE COLLAR
N.T.S.

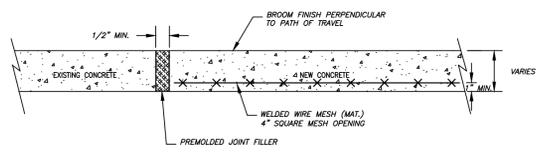


BULKHEAD FOR ABANDONED PIPE
N.T.S.

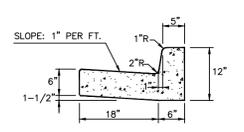


NOTE: 1) UNSUITABLE SOILS ENCOUNTERED IN BOTTOM OF EXCAVATED TRENCH SHALL BE EXCAVATED & REPLACED WITH NO. 57 STONE. ONLY SUITABLE SOIL SHALL BE USED AS BACKFILL.

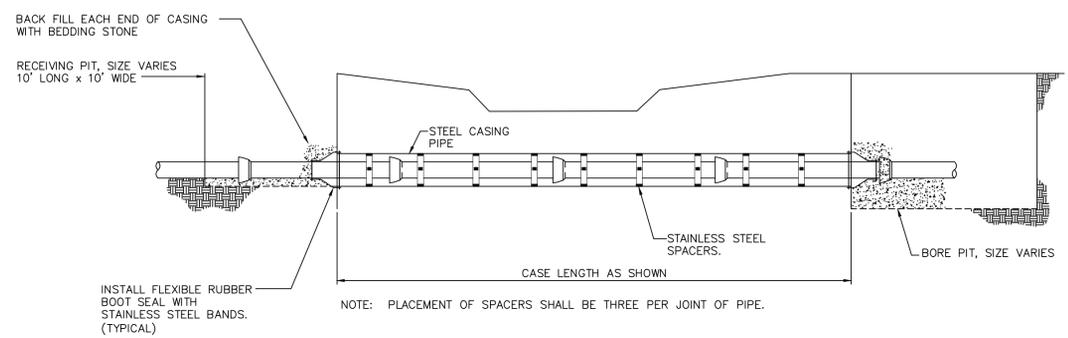
PIPE BEDDING DETAIL "A"
N.T.S.



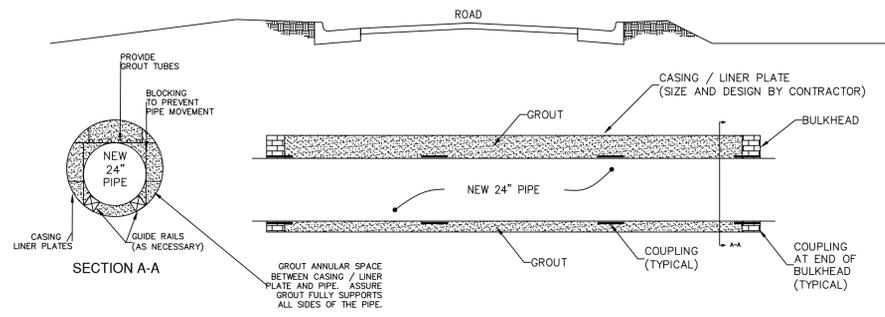
TYPICAL CONCRETE PAVEMENT
N.T.S.



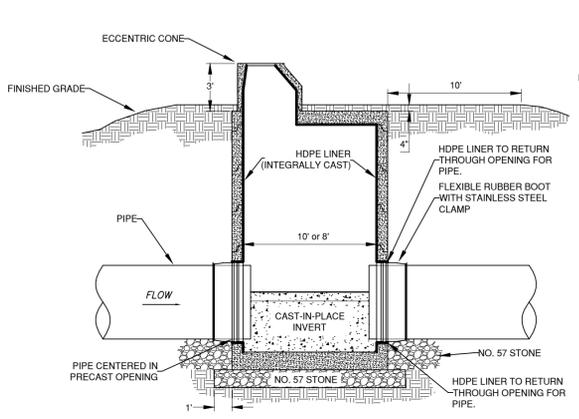
TYPICAL CURB AND GUTTER
N.T.S.



TYPICAL CASING AT CREEK CROSSING
N.T.S.

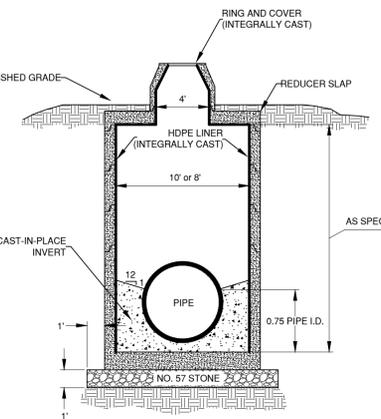


CASED CROSSING
N.T.S.



1. MAINTAIN 1/2" CLEARANCE BETWEEN PIPE AND CAST-IN PLACE INVERT AT ALL EDGES / SURFACES. SHELF AND INVERT SHALL BE TROWEL FINISHED.
2. WHEN BRICK IS USED AS A FILLER, PROVIDE MINIMUM 2 INCHES GROUT OVER BRICK.
3. INSTALL 4" DIAMETER CONE SECTION ON THE UPSTREAM SIDE OF THE LARGE DIAMETER MANHOLE.

LARGE DIAMETER MANHOLE SECTION
N.T.S.



1. MAINTAIN 1/2" CLEARANCE BETWEEN PIPE AND CAST-IN PLACE INVERT AT ALL EDGES / SURFACES.
2. SHELF AND INVERT SHALL BE TROWEL FINISHED.
3. WHEN BRICK IS USED AS A FILLER, PROVIDE MINIMUM 2 INCHES GROUT OVER BRICK.

SMALL DIAMETER MANHOLE SECTION
N.T.S.

GENERAL NOTES

1. CONSTRUCTION OF THE SANITARY SEWER MAIN SHALL CONFORM TO THE CLAYTON COUNTY WATER AUTHORITY (CCWA) DOCUMENT TITLED "CONSTRUCTION SPECIFICATIONS FOR THE FLINT RIVER OUTFALL REPLACEMENT PHASE 4"
2. ALL WORK SHALL BE PERFORMED BY A GEORGIA LICENSED UTILITY CONTRACTOR.
3. CONTRACTOR SHALL HAVE A CLAYTON COUNTY WATER AUTHORITY APPROVED SET OF PLANS ON THE JOB SITE AT ALL TIMES.
4. CONTRACTOR SHALL NOTIFY THE CLAYTON COUNTY WATER AUTHORITY 48 HOURS PRIOR TO BEGINNING CONSTRUCTION (770 961 5135).
5. CONTRACTOR SHALL VERIFY LOCATION AND DEPTHS OF ALL EXISTING UTILITIES IN THE PROJECT AREA PRIOR TO BEGINNING CONSTRUCTION.
6. CCWA SHALL OBTAIN ALL LAND DISTURBANCE ACTIVITY AND GRADING PERMITS.
7. ALL PERMITMENT EASEMENTS AND CONSTRUCTION EASEMENTS SHALL BE OBTAINED BY CLAYTON COUNTY WATER AUTHORITY BEFORE CONSTRUCTION BEGINS.
8. CONTRACTOR SHALL PROVIDE AND INSTALL ALL MATERIAL UNLESS OTHERWISE INDICATED IN THE CONTRACT DOCUMENTS.
9. CONTRACTOR SHALL COORDINATE WITH LOCAL UTILITY COMPANY FOR SECURING/STABILIZING UTILITY POLES.
10. ALL PETROLEUM PRODUCTS SHALL BE STORED AND USED IN AN AREA THAT PROVIDES A SECONDARY CONTAINMENT FEATURE, AND SHALL BE LOCATED IN AN AREA WITH THE LEAST FORESEEABLE IMPACT IF A CATASTROPHIC EVENT SHOULD OCCUR. EMERGENCY CONTACT NUMBERS AND PROCEDURES FOR SPILLS SHALL BE AVAILABLE ON-SITE.

SITE PREPARATION AND COMPLETION

1. PRIOR TO COMMENCING LAND DISTURBANCE ACTIVITY, THE LIMITS OF LAND DISTURBANCE SHALL BE CLEARLY AND ACCURATELY DEMARCATED WITH STAKES, RIBBONS, OR OTHER APPROPRIATE MEANS. THE LOCATION AND EXTENT OF ALL AUTHORIZED LAND DISTURBANCE ACTIVITY SHALL BE DEMARCATED FOR THE DURATION OF THE CONSTRUCTION ACTIVITY. NO LAND DISTURBANCE SHALL OCCUR OUTSIDE THE CONSTRUCTION LIMITS INDICATED ON THE APPROVED PLANS.
2. CONTRACTOR SHALL TO PERFORM ALL SURVEY WORK ON PROJECT.
3. CONTRACTOR SHALL AT ALL TIMES, MAINTAIN FLAG MEN, SIGNS, LIGHTS, FLARES, BARRICADES, AND OTHER SAFETY DEVICES IN ACCORDANCE WITH THE DOT'S CURRENT MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) AND AS MAY BE NECESSARY TO PROPERLY PROTECT TRAFFIC UPON THE ROAD AND TO WARN AND SAFEGUARD THE PUBLIC AGAINST INJURY OR DAMAGE.
4. MATERIAL STAGING AREA SHALL BE COORDINATED WITH CCWA.
5. THE 30 FOOT WIDE CONSTRUCTION LANE MAY BE CLEARED AT THE CONTRACTOR'S DISCRETION. A 20-FOOT WIDE LANE CENTERED OVER THE PIPE ALIGNMENT SHALL BE CLEARED OF ALL TREES AND DEBRIS.
6. TREES, ASPHALT, AND OTHER CONSTRUCTION DEBRIS SHALL BE REMOVED OFF SITE BY CONTRACTOR.
7. EXCAVATED SOIL NOT USED IN BACK FILL SHALL BE REMOVED OFF SITE BY CONTRACTOR.
8. TEMPORARY FENCING AS NECESSARY TO FACILITATE CONSTRUCTION. NO FENCING SHALL BE LEFT DOWN/NOT SECURED OVERNIGHT. ANY FENCING DAMAGED SHALL BE REPLACED WITH NEW TO MATCH EXISTING CONDITIONS AND DIMENSIONS.

EXCAVATION

1. CONTRACTOR SHALL BE RESPONSIBLE FOR SUPPLY AND REPLACEMENT OF ROCK EXCAVATION WITH SUITABLE SOIL. SUITABLE SOIL SHALL BE SOIL THAT DOES NOT CONTAIN ORGANIC DEBRIS LARGER OR ROCK GREATER THAN 3 INCH IN SIZE.
2. TRENCH BOXES SHALL BE UTILIZED WHEN TRENCHING THROUGH RESIDENTIAL PROPERTY AND PUBLIC RIGHT OF WAYS.

INSTALLATION

1. PIPES SHALL BE LAID IN ACCORDANCE WITH APPLICABLE DETAILS. OVER EXCAVATION OR REMOVAL OF UNSUITABLE SOIL SHALL BE REPLACED WITH STONE.
2. PIPES SHALL BE LAID IN DRY CONDITIONS. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DOWATERING.
3. LAYING AND JOINTING OF PIPE AND FITTINGS SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
4. DAMAGED PIPE AND FITTINGS SHALL BE REPLACED OR REPAIRED BY THE CONTRACTOR AS REQUIRED BY THE CCWA. REPAIRS SHALL BE COMPLETED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
5. MANHOLE COVERS NOT LOCATED IN PAVEMENT SHALL BE INTEGRALLY CAST IN THE TOP CONE SECTION.
6. MANHOLES NOT LOCATED IN PAVED AREAS SHALL HAVE A RIM ELEVATION NOT LESS THAN 24 INCHES FROM FINISHED GROUND ELEVATION. UNLESS OTHERWISE NOTED.
7. MAINTAIN A 16 FOOT HORIZONTAL SEPARATION AND A 24 INCH VERTICAL SEPARATION BETWEEN ALL WATER AND SEWER LINES UNLESS OTHERWISE NOTED.
8. INSTALL WARNING TAPE ABOVE PIPE AS INDICATED ON TYPICAL PIPE DETECTION INSTALLATION DETAIL.
9. FROM THE BOTTOM OF PIPE TO 1/2 PIPE DIAMETER, BACK FILL MATERIAL SHALL BE SHOVEL SLICED SAND.
10. BACK FILL UNDERLYING PAVEMENT, DIRT AND GRAVEL, ROADS AND ROAD RIGHT OF WAYS SHALL BE COMPACTED TO 95% OF THE MAXIMUM DRY DENSITY AS DETERMINED BY THE STANDARD PROCTOR ANALYSIS (ASTM D-1557).
11. BACKFILL UNDERLYING PAVEMENT SHALL BE COMPACTED TO 95% OF THE MAXIMUM DRY DENSITY AS DETERMINED BY THE STANDARD PROCTOR ANALYSIS (ASTM D-1557).
12. CREEK CROSSINGS SHALL BE ACCOMPLISHED USING MUD MATS WITH BOTTOM OF MAT ELEVATION ABOVE SURFACE WATER LEVEL.
13. ANY EXISTING ROAD SIGN REMOVED FOR CONSTRUCTION SHALL BE REPLACED BY THE END OF THE WORKING DAY.
14. THE CONTRACTOR SHALL NOT CLOSE OR BLOCK ANY HIGHWAY, STREET, OR ROADWAY WITHOUT FIRST OBTAINING PERMISSION FROM THE PROPER AUTHORITIES.
15. THE CONTRACTOR SHALL COORDINATE TEMPORARY RELOCATION OF ALL FENCES WITH PROPERTY OWNERS PRIOR TO CROSSING HOME OWNERS PROPERTY IF NECESSARY DUE TO PETS OR LIVESTOCK.
16. THE CONTRACTOR SHALL REPLACE ALL FENCE WITH EXISTING FENCE MATERIAL UNLESS EXISTING FENCE MATERIALS ARE DAMAGED. IF MATERIALS ARE DAMAGED, CONTRACTOR WILL BE RESPONSIBLE FOR REPLACING WITH NEW MATERIAL.

CONCRETE AND PAVEMENT

1. ALL CONCRETE SHALL HAVE A MINIMUM 3,000 PSI COMPRESSIVE STRENGTH AT 28 DAYS UNLESS NOTED OTHERWISE.
2. SAW CUT ASPHALT AND CONCRETE PAVEMENT TO BE REMOVED. CONTRACTOR SHALL MATCH NEW PAVEMENT EDGES TO EXISTING PAVEMENT EDGES.
3. WIDTH OF PAVEMENT AND CURB REPLACEMENT SHALL NOT EXCEED 12 FEET UNLESS NOTED OTHERWISE.
4. WORK PERFORMED THROUGH AREAS OF PAVEMENT SHALL BE IMMEDIATELY COMPLETED TO GRADE WITH GRADED AGGREGATE BASE. PAVEMENT SHALL BE REPLACED NO LATER THAN THE DAY AFTER REMOVAL. TEMPORARY PAVEMENT REPLACEMENT MAY BE ALLOWED AT THE DISCRETION OF THE CCWA INSPECTOR. ANY IN-PLACE PAVEMENT ADJACENT TO WORK AREA, THAT IS DAMAGED PRIOR TO PERMANENT REPLACEMENT SHALL BE REMOVED AND REPLACED AT THE EXPENSE OF THE CONTRACTOR.
5. CONCRETE DRIVEWAY SHALL HAVE TOOLED OR SAW CUT CONTROL JOINTS SPACED AT NOT GREATER THAN 1.5 TIMES DRIVEWAY WIDTH. CONTROL JOINTS SHALL HAVE A MINIMUM DEPTH OF 1 INCH. SAW CUT CONTROL JOINT WITHIN 24 HOURS OF PLACING CONCRETE.
6. ALL DRIVEWAYS WHICH ARE OPEN CUT SHALL BE STABILIZED WITH GRADED AGGREGATE BASE (GAB) AND MAINTAINED UNTIL THE PAVEMENT IS REPLACED.
7. ALL CAST-IN-PLACE CONCRETE SHALL BE PLACED IN WOOD FORMS UNLESS NOTED OTHERWISE.
8. ALL FORM MATERIAL SHALL BE REMOVED PRIOR TO BACK FILL.
9. CONCRETE FORMS SHALL SUPPORT PLACED CONCRETE FOR A MINIMUM OF 12 HOURS UNLESS NOTED OTHERWISE.
10. CONCRETE TRUCK WASHOUT SHALL BE CONTAINED WITHIN TRENCH WITH NO MATERIAL LEAVING THE SITE OR IMPACTING VEGETATED OR NON-DISTURBED AREAS.

PIPE TESTING

1. TESTING SHALL BE PERFORMED WHEN ALL BACKFILL TO FINISHED AND COMPACTION ARE COMPLETE AND DEWATERING HAS BEEN DISCONTINUED FOR A MINIMUM 24 HOUR PERIOD AT THE LOCATION OF THE TEST.
2. AIR-JOINT PIPE TESTING: GRAVITY SEWER PIPE SHALL BE SUBJECTED TO A LOW AIR PRESSURE TEST AT EACH JOINT. PIPE SHALL BE FREE OF DIRT AND DEBRIS PRIOR TO TESTING. THE INTERNAL AIR PRESSURE OF THE PIPE SHALL BE RAISED TO APPROXIMATELY FOUR (4) PSI. THE TEST SHALL BEGIN WHEN THE STABILIZED PRESSURE IS MAINTAINED AT A MINIMUM OF 1.5 PSI. TEST SHALL BE CONSIDERED ACCEPTABLE WHEN AN AIR PRESSURE EQUIVALENT TO THE STABILIZED PRESSURE IS MAINTAINED FOR A PERIOD OF 5 MINUTES. TELEVISION GRAVITY SEWER PIPE SHALL BE TELEVISION TO INSURE INTEGRITY. TEST SHALL BE CONSIDERED ACCEPTABLE WHEN THE TELEVISION PIPE DOES NOT REVEAL THE FOLLOWING: CRACKS IN PIPE, PROTRUDING GASKETS, LEAKING JOINTS, PIPE DEFORMATIONS, OTHER DEFICIENCIES.
3. DEFORMATION TESTING: GRAVITY SEWER PIPE SHALL BE TESTED FOR DEFORMATION OF THE PIPE. PIPE SHALL BE FREE OF DIRT AND DEBRIS. DEFORMATION MAY NOT BE MORE THAN 5% OF THE PIPE'S MANUFACTURED PUBLISHED DIAMETER. DEFORMATION SHALL BE DETERMINED BY USING A STANDARD MEASURING DEVICE THROUGHOUT THE ENTIRE LENGTH OF THE PIPE SEGMENTS. TEST SHALL BE CONSIDERED ACCEPTABLE WHEN MEASURED DEFORMATION IS LESS THAN 5% OF THE PIPE'S MANUFACTURED PUBLISHED INSIDE DIAMETER.

MANHOLE TESTING

1. VISUAL TESTING: EACH MANHOLE SHALL BE TESTED. MANHOLE TESTING SHALL BE PERFORMED BY VISUALLY OBSERVING FOR WATER INFILTRATION AT ALL MANHOLE SECTIONS. AT ALL MANHOLE / RUBBER BOOT SEAL CONNECTIONS. TESTING SHALL BE PERFORMED WHEN ALL BACKFILL TO FINISH GRADE AND COMPACTION ARE COMPLETE AND DEWATERING HAS BEEN DISCONTINUED FOR A MINIMUM 24 HOUR PERIOD AT THE LOCATION OF THE TEST AND PRIOR TO SEALING HOPE LINER JOINTS. TEST SHALL BE CONSIDERED ACCEPTABLE WHEN NO WATER INFILTRATION IS OBSERVED AT ANY DESCRIBED OBSERVATION POINTS.

PLANS PREPARED BY:

CLAYTON COUNTY WATER AUTHORITY
1600 BATTLE CREEK ROAD
MORROW, GEORGIA 30260

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PROJECT NAME:

FLINT RIVER OUTFALL REPLACEMENT PHASE 4 FOR BID

LAND LOTS 85,86,107,108,116&117 13TH. DISTRICT CLAYTON COUNTY, GEORGIA

REVISIONS:

DATE:	NO.:	REQUESTED BY:	DESCRIPTION:
01/18/2022	1	CCWA	CHANGED BEDDING TO 12 INCHES
01/18/2022	2	CCWA	CHANGED COMPACTION TO 98%

SHEET TITLE: CONSTRUCTION DETAILS

DESIGN BY:	DATE:	11/30/2021
CCWA	JOB #:	82001
DRAWN BY:	DRAWING #:	P-11
MAS	SCALE:	N.T.S.
CHECKED BY:	SHEET NUMBER	14 OF 29