 <p>CLAYTON COUNTY Water AUTHORITY</p> <p>1600 Battle Creek Road, Morrow, GA 30260</p>	Jesters Creek East Outfall Replacement – Phase 2	
	ADDENDUM #1	
	DATE	Wednesday, December 29, 2021
	BID NUMBER	2021-PME-22
	BID OPENING DATE	January 6, 2022, at 2:00 pm
ADDENDUM MUST BE SIGNED AND INCLUDED IN YOUR RESPONSE TO THE RFB.		

REVISIONS:

- 1. Replace the RFB documents Cover page with the Revised Cover page provided with this Addendum.**

Revision was made to clarify the Bid Opening Day of the week from “Tuesday, January 6, 2022” to “Thursday, January 6, 2022”. Revision is highlighted in yellow.

- 2. Replace pages 4-1.6 and 4-1.7 of the RFB documents with the revised pages 4-1.6R and 4-1.7R provided with this addendum.**

Revisions were made to Work Items 17, 20-21 and 25-31 indicating the beginning survey station at Tie-In No. 2. Revisions are highlighted in yellow.


- 3. Replace page 4-3.29 of the RFB documents with the revised page 4-3.29R provided with this addendum.**

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

- 4. Revision was made to the 24-inch pipe material type being provided by CCWA. The 24-inch pipe being provided is FRPMP. The revision is indicated on the Construction Drawings.**

- 5. Replace the Construction Plan drawings included in the RFB documents with the Revised Construction Plan, provided with this Addendum. Revisions were made to the following drawings:**

Drawing No.	Sheet No.
C-1	1 of 23
P-1	5 of 23
P-2	6 of 23
P-5	9 of 23
P-6	10 of 23
P-7	11 of 23
P-8	12 of 23
P-9	13 of 23

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QUESTIONS:

The following questions were asked via Teams Chat during our Virtual Teams Pre-Bid meeting:

- Section 4 Materials calls out casing pipe and spacers supplied by CCWA, please clarify.**

Answer:

CCWA will provide the casing and the spacers as indicated in Division 4, Section 2.

- Casing for the bore too?**

Answer:

CCWA will provide the casing for the bore as indicated in Division 4, Section 2.

- What is casing needs upsized for the bore?**

Answer:

Casing size, as indicated on the Construction Drawings, will be installed by the Contractor.

- Can we move the bid date a week?**

Answer:


The bid opening date will be as indicated in the RFB document.

The following questions were asked via email:

- Pre-bid agenda said CCWA to provide pipe only, contractor to provide all other materials. Division 4 – Section 2 calls out CCWA to provide Transition Coupling, Steel Casing, Casing Spacer and Casing End Seal – please clarify what CCWA is providing.**

Answer:

CCWA will provide transition coupling, steel casing, casing spacers and casing end seal as indicated in Division 4, Section 2.

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- 2. Division 4 – Section 2 calls out Contractor to provide manholes but bid form description 25-31 calls out “Installation” of various manholes. Please confirm who supplies manholes.**

Answer:

The Contractor will provide manholes as indicated in Division 4, Section 2.

- 3. Cased Crossing No. 1 calls out 36” casing for a 24” gravity carrier pipe. This may need to be upsized to accommodate grade on the carrier pipe. If CCWA is providing casing, will they provide the upsized casing?**

Answer:

Casing size, as indicated on the Drawings, will be installed by the Contractor.

- 4. There is a 48” cased crossing shown at Sta 40+00, is this existing casing? Has the size been confirmed? Per question 1, will CCWA be providing casing spacers and end seals?**

Answer:

Casing size, as indicated on the Drawings, will be installed by the Contractor. CCWA will provide casing spacers and end seals as indicated in Division 4, Section 2.

- 5. There is no bid item for this 48” cased crossing at Sta 40+00, should that cost be included in the pipe, or will a bid item be added?**


Answer:

The cost to install the 48” casing should be included in the cost to install the pipe.

- 6. With CCWA providing the 36” fiberglass pipe and 24” PVC pipe, who are the suppliers and what is the anticipated lead time for pipe delivery?**

Answer:

See Revision No. 4 above. Hobas Pipe USA is the supplier for the 24-inch and 36-inch FRPMP. The pipe for the project has been ordered. Pipe delivery will be scheduled to coincide with the Contractor’s schedule.

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- 7. This project involves extensive bypass pumping for flow interruption to allow new pipe be installed at the location of existing pipe. Most of the project is installed within the 100-year floodplain. Division 4 – Section 3.4.L states bypass pumps and piping be installed above the 100-year flood elevation and secured to a ridged structure. Is there enough easement to get the bypass pumps and piping outside of the 100-year floodplain? If not, what is expected for to meet this statement?**

Answer:

All work must be contained within the construction limits indicated on the Construction Drawings. Pumps and bypass piping must be secured in some manner and protected from damage by flood waters.

- 8. Is the Geotechnical Report (Attachment C) listed on Page iv of the Table of Contents a “Contract Document”? Are the findings and recommendations in the report contractually binding on the CCWA and the Contractor?**

Answer:

The Geotechnical Report is for information only and does not supersede the language indicated in Divisions 1 through 4 of the RFB document.

- 9. Will the Contractor receive an equitable adjustment in the Contract Price and Contract Time for delays caused by the CCWA, or for delays by others working directly or indirectly for the CCWA?**

Answer:


CCWA does not anticipate delaying the work.

- 10. What are the proposed dispute resolution procedures?**

Answer:

There are no dispute resolution procedures.

- 11. What is the estimated construction budget?**

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Answer:

The construction budget is 9.1 million and includes contracted services, materials and services during construction.

12. Can I get a copy of the mandatory pre-bid sign in sheet?

Answer:

The Pre-Bid sign-in-sheet is included with this addendum.

13. Are you able to email me the GC bidders, or Plan Holders list for this project, or direct me on where to get it?

Answer:

The Vendor List is included with this addendum.

14. Specifications Page 4-3.29, 3.8.1.C indicates stone bedding to a height 6” above the top of the pipe, whereas Drawing #P-9, Typical Sanitary Sewer Pipe Bedding Detail indicates stone bedding to a height 1’ above the top of the pipe. Please clarify.

Answer:


Pipe bedding stone shall be installed as indicated on the Pipe Bedding Detail. Division 4, Section 3.8.1, Item C has been revised to indicate 12 inches.

15. Specifications Page 4-3.35, 3.10.2, C. 1 indicates backfill in road right-of-way shall be compacted to minimum 98% max dry density, whereas Drawing #P-9 Installation Note #10 states minimum 95% max dry density. Please clarify.

Answer:

Note No. 10 on Drawing P-9 has been revised to indicate 98% maximum dry density.

16. Specifications Page 4-1.6, Work Items 20-21 indicates primary pipe from survey station 0+40 (end of Tie-In No. 1) to survey station 65+42 (beginning of Tie-In No. 2). Work Item 17 indicates that Tie-In No. 2 begins at survey station 119+64.24. Please clarify.

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Answer:

The beginning of Tie-In No. 2 is at survey station 119+77.01. Work Items 17, 20 – 21 and 25-31 have been revised to indicate the correct station.

- 17. There are multiple references of STA 65+42 (beginning of Tie-In No. 2) in Work Assignment and Measurement for Payment. Please clarify.**

Answer:

The beginning of Tie-In No. 2 is at survey station 119+77.01. Work Items 17, 20 – 21 and 25-31 have been revised to indicate the correct station.

- 18. Drawing #P-9 Large Diameter Manhole Section Detail shows invert poured to 0.075 Pipe ID. Please confirm that this is 0.75 Pipe ID.**

Answer:

The invert is poured to 0.75 Pipe ID. The Section Detail has been revised.

- 19. Drawing #P-7, Is contractor to remove and dispose of portable building near STA 91+60?**

Answer:

The building near station 91+60 is to remain.

- 20. Drawing #P-3, is 48” open cut steel casing, casing spacers, end seals at +/- STA 40+20 furnished by CCWA or contractor?**


Answer:

CCWA will provide steel casing, casing spacers and end seal as indicated in Division 4, Section 2.

- 21. What is the anticipated Notice to Proceed for this project?**

Answer:

CCWA anticipates issuing a Notice to Proceed in March or April 2022; dependent upon ability of Contractor to execute the contract.

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22. Have all the pipe materials already been purchased and released for production?

Answer:

All FRPMP has been ordered and released for production. Other pipe materials and accessories have not yet been ordered.

23. If the pipe materials have not been purchased or released, would the owner consider changing the 24” pipe from PVC to HOBAS?

Answer:

See Revision No. 4 above.

24. Can you clarify if the bid date is Thursday, January 6th or Tuesday, January 4th? It is currently called out as Tuesday, January 6th.

Answer:

Refer to Revision No. 1 above.

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



REQUEST FOR BID

**JESTERS CREEK EAST OUTFALL
REPLACEMENT – PHASE 2**

Bid Number 2021-PME-22

November 2021

**CLAYTON COUNTY WATER AUTHORITY
1600 Battle Creek Road
Morrow, GA 30260**

**Virtual Teams
Bid Opening Meeting** **Thursday**, January 6, 2022, at 2:00 pm local time

**Non-Mandatory
Pre-Bid Virtual
Teams Meeting** **Tuesday, December 14, 2021, at 2:00 pm local time**

**Non-Mandatory
Site Visit** **Tuesday, December 14, 2021, at 3:00 pm local time**

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 4

Specifications

Section 1: Work Assignment and Measurement for Payment

Item will be paid on a “lump sum” unit cost in accordance with the Pay Item Schedule as authorized/approved by CCWA.

Work Item 17. Tie-In No. 2: Defined as the Contractor completing all necessary work as described in the Contract Documents to install work from station **119+64.24 119+77.01** to and including station 120+17.01 as indicated as “Tie-In (2)”. Erosion and Sediment Control Installation will be paid from other Work Item. Only when testing on all work has been accepted by CCWA will the Work Item be eligible for payment. The Work Item will be paid on a “lump sum” unit cost in accordance with the Pay Item Schedule as authorized/approved by CCWA.

Work Items 18 – 19. Cased Crossing No. 1 (Casing and Pipe): Defined as the Contractor completing all necessary work as described in the Contract Documents to complete Cased Crossing No. 1. Concrete Curb Replacement will be paid from other Work Item. Erosion and Sediment Control Installation will be paid from other Work Item. The Work Item will be paid on a per “linear foot” unit cost of cased crossing installed and pipe installed in accordance with the Pay Item Schedule and applicable work Detail as authorized/approved by CCWA.

Work Items 20 – 21. Primary 36-Inch and 24-Inch Pipe Installation: Defined as the Contractor completing all necessary work as described in the Construction Documents to install the Primary Pipe from survey station 0+40 (end of Tie-In No.1) to survey station **65+42 119+77.01** (beginning of Tie-In No. 2). This Work Item does not include pipe installed as part of Work Items Cased Crossing No. 1. The work will be measured horizontally from center of manhole to center of manhole. Only pipe installed where testing has been accepted by CCWA will be eligible for payment. The Work Item will be paid on a per “linear foot” unit cost in accordance with the Pay Item Schedule as authorized/approved by CCWA.

Work Item 22. Secondary 8-Inch, 12-Inch, 15-Inch Pipe Installation: Defined as the Contractor completing all necessary work as described in the Construction Documents to install the Secondary Pipe. The work will be measured horizontally from center of manhole to center of manhole. Only pipe installed where testing has been accepted by CCWA will be eligible for payment. The Work Item will be paid on a per “linear foot” unit cost in accordance with the Pay Item Schedule as authorized/approved by CCWA.

Division 4

Specifications

Section 1: Work Assignment and Measurement for Payment

Work Items 23 – 24. Service Re-Connection: Defined as the Contractor completing all necessary work as described in the Construction Documents to install the existing service connections designated as Service Re-Connect A through N. Where a re-connection is indicated, install up to 20 feet of pipe at the location. Install additional pipe beyond 20 feet as indicated/required to complete the work. The work will be measured horizontally from center of manhole to the end of pipe. The Work Item detailed as “Initial 20 Feet” will be paid on a per “each” unit cost in accordance with the Pay Item Schedule and applicable depth Detail as authorized/approved by CCWA. The Work Item “Additional Footage” will be paid on a per “linear foot” unit cost in accordance with the Pay Item Schedule as authorized/approved by CCWA.

Work Items 25 – 31. Primary and Secondary Manhole Installation: Defined as the Contractor completing all necessary work as described in the Construction Documents to install manholes from survey station 0+40 (end of Tie-In No. 1) to survey station **65+42 119+77.01** (beginning of Tie-In No. 2). The base and riser diameter of a manhole will be determined by measuring the inside diameter. The riser above the base will be measured vertically from the top of the constructed manhole invert to the top of reducer slab or to the top of the cone section if a reducer slab is not installed. The riser above the reducer slab will be measured for diameter and vertically from the top of the reducer slab to the top of the cone section. Only manholes installed where testing has been accepted by CCWA will be eligible for payment. The Work Items for manhole base sections will be paid on a per “each” unit cost in accordance with the Pay Item Schedule and applicable Detail as authorized/approved by CCWA. The Work Items for manhole riser height will be paid on a per “vertical foot” unit cost in accordance with the Pay Item Schedule and applicable Detail as authorized/approved by CCWA.

Work Items 32 - 34. Manhole Invert Construction: Defined as the Contractor completing manhole invert construction as described in the Contract Documents. The size of invert construction will be determined by measuring the inside diameter of the manhole base. The Work Items will be paid on a per “each” unit cost in accordance with the Pay Item Schedule and applicable Detail as authorized/approved by CCWA.

Work Item 35. Unsuitable Soil Excavation: Defined as the Contractor completing the excavation and disposal off site of unsuitable soil and replacing excavated volume with suitable soil or stone in accordance with the Contractor Documents.

Division 4

Specifications

Section 1: Work Assignment and Measurement for Payment

- E. Blasting operations shall be conducted in accordance with all local, state and federal regulations. The Contractor is responsible for repairs and/or replacement of damaged property(s) resulting from the work.
- F. Excavated rock shall not be used as backfill in excavations. Contractor shall replace volume of excavated rock inside the pipe zone with suitable stone and outside of the pipe zone with suitable soil.
- G. Excavated rock shall be removed from the project site and disposed of.

3.8 Pipe Work

3.8.1 Bedding

- A. Pipe bed shall be established to elevations and grade as shown on the Construction Drawings or to match a requested condition.
- B. Pipe bed material and depth shall be as indicated on the Construction Detail / Construction Drawings. Stone shall be shovel sliced/ 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.

Non-Mandatory Pre-Bid Virtual Teams Meeting


[Join Microsoft Teams Meeting](#)

Toll number: + 912-483-5368
Conference ID: 106 979 505#

Department: Program Management Engineering
Bid Title: Jesters Creek East Outfall Replacement – Ph2
Bid Opening Date and Time: January 6, 2022, at 2:00 p.m.

COMPANY NAME	REPRESENTATIVE	PHONE NUMBER	EMAIL ADDRESS
CCWA	Clifford Beroset	770-960-5223	Ccwa_procurement@ccwa.us
CCWA	Marcia Jones	770-960-5223	Ccwa_procurement@ccwa.us
CCWA	Isabel Parilla	770-960-5223	Ccwa_procurement@ccwa.us
CCWA	Kathy Bogaert	770-960-5223	Ccwa_procurement@ccwa.us
CCWA	Hilda Flores	770-960-5223	Ccwa_procurement@ccwa.us
CCWA	Keith Watkins	770-960-5223	Ccwa_procurement@ccwa.us
CCWA	Larry Micheals	770-960-5223	Ccwa_procurement@ccwa.us

COMPANY NAME	REPRESENTATIVE	PHONE NUMBER	EMAIL ADDRESS
CCWA	Garfield Cousins	770-960-5223	Ccwa_procurement@ccwa.us
United Grading	Matt Stonica	678-822-6629	Mstonica@unitedgrading.com
United Grading	Brett Clay	404-831-3559	Bclay@unitedgrading.com
Gordy Construction Company	Schley Gordy		schley@gordyconstruction.com
Astra Group, LLC	Erik Van Der Heijden	770-992-9300 x8218	evanderheijden@astragroupinc.com
JDS Inc.	Hank Merrill	770-972-8000	hmerrill@jdspipe.com
RDJE, Inc.	Evan C. Bryant	770-652-3902	ebryant@rdjeinc.com
Cleary Construction, Inc.	Robbie Butler		estimating@clearyconst.com
Reynolds Construction	Patrick Stalker		patrick.stalker@reynoldscon.com
Ruby Collins	Megan Griffin		estimating@ruby-collins.com mgriffin@ruby-collins.com

 <p>CLAYTON COUNTY Water AUTHORITY</p> <p>1600 Battle Creek Road, Morrow, GA 30260</p>	Jesters Creek East Outfall Replacement – Phase 2	
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JESTER'S CREEK EAST OUTFALL REPLACEMENT - PHASE 2 - VENDOR LIST

Company Name	Contact email address
1 ADC & Associates, Inc.	belliott@adcandassociates.com
2 Advanced Drainage systems, Inc.	Catherine.Kiever@ads-pipe.com
3 AllSouth Construction, Inc.	jballsouth@bellsouth.net
4 American Contractors Grading and Paving, Inc.	tim@amcontractors.net
5 American Pipe	jmccullough@american-usa.com
6 Astra Group Inc.	clong@astragroupinc.com shicks@astragroupinc.com
7 Ballard MC	colin.braun@BallardMC.com
8 BHF Technology	trenchless@bhfttech.com
9 Brent Scarbrough & Company Inc.	info@brent.us
10 Brown Electrical Services	brownelectricalservices@gmail.com
11 BRTU Construction, Inc.	sint@brtuconstruction.com
12 Cajenn Construction & Rehabilitation Services, Inc.	cristy@cajenn.com
13 Cantsink of Atlanta	ryan@cantsink.com
14 Celebrity Fence Co., Inc.	cfco@cs.com
15 CHARTER CONSTRUCTION SERVICES, INC.	kay@chartercs.com
16 Cheoah Construction	jimmass2@gmail.com
17 Civil Works	sharukh@civilworks.us
18 CJ HEARNE CONSTRUCTION	cjhearneconst@bellsouth.net
19 CKL Engineers, LLC	jwashington@cckleng.com
20 Classic City Utility, Inc.	mikeclassiccit@yahoo.com
21 Cleveland Carter Enterprises, Inc	admin@cceatlanta.com
22 Cleary Construction Inc	Estimating@clearyconst.com
23 CMES, Inc	Pravin.P@cmesinc.net
24 Construction Bid Source	mtadayon@constructionbidsource.com
25 ConstructConnect	gwen.tanghal@ConstructConnect.com
26 Crowder Construction Company	CBoyd@crowderusa.com
27 CTC Construction, LLC	greg@ctcconstruct.com
28 Development Site Services Inc.	lgreen@developmentsiteservices.com
29 Dodge Data & Analytics	kathy.conrad@construction.com
30 Double P Grading Inc.	Eddie@doublepgradinginc.com
31 Eagle Excavation Inc.	al@eaglexinc.com
32 Foley Products Company	bmeier@foleyproducts.com
33 Frankie Thompson Enterprises, Inc.	frankie@frankiethompson.com
34 Garney Construction	emalvin@garney.com



1600 Battle Creek Road, Morrow, GA 30260

Jesters Creek East Outfall Replacement – Phase 2

ADDENDUM #1

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BID NUMBER	2021-PME-22
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35	George Ajoy	george.ajoy@r2tinc.com
36	Georgia Development Partners	MMelton@gdpbuilds.com
37	Gibsons Grouting	dboley@gibsonsgROUTING.com
38	GS Construction, Inc.	hquinn@gsconstruction.net
39	Gordy Construction	schley@gordyconstruction.com
40	Hall Construction	HALLCONST1@aol.com
41	Haren Construction Company, Inc.	sdrumright@harenconstruction.com
42	Helix Group	admin@helixgroupinc.com
43	Insituform Technologies	RMILLER@aegion.com
44	Integrated Construction Management, Inc.	sque@icmworks.net
45	isec Engineering	cwright@ISEC.engineering
46	J. G. Leone Enterprises, Inc.	jgl@jgleone.com
47	J Squared Plumbing Co Inc	info@j2plumbing.com
48	John D Stephens, Inc.	mmontgomery@johndstephens.com
49	June Calago	June.Calago@ConstructConnect.com
50	K.M. Davis Contracting Co., Inc.	montebeasley@bellsouth.net
51	Kemi Construction Co., Inc.	vakinpelu@kemiconstruction.com
52	Ken Blair	kwblair@aol.com
53	Kiewit	Jesse.Copeland@Kiewit.com
54	L.T. & Associates, LLC	ltandassociates@bellsouth.net
55	Layne Heavy Civil	tim.dunn@layne.com
56	Legacy Water Group, LLC	jklebowski@legacywatergroup.com
57	Lewis Contracting Services, LLC	jlewis@lewiscontractingservices.com
58	Loris Transportation	info@loristransportation.net
59	McIntyre Fencing Co.	linda@mcintyrefence.com
60	Metals & Materials Engineers, LLC	bbennett@mmelab.com
61	MHR International, Inc.	mross@mhrinternational.com
62	Mid-South Builders, Inc.	khowardchatham@aol.com
63	Moorhead Construction	office@moorheadconstruction.com
64	Morgan Contracting, Inc.	tbayles@morgan1.com
65	Multi-Energy Group, LLC	jshollis@multienergygroup.com
66	North Georgia Pipeline, Inc	sperry@northgeorgiaconcrete.com
67	North Georgia Pipeline, Inc.	SPerry@northgeorgiaconcrete.com
68	Oldcastle Precast	Bill.Meier@oldcastle.com
69	RDJE Inc.	SFuller@RDJEInc.com
70	R2T, Inc.	kim.ajoy@r2tinc.com
71	Rain For Rent	ktinnerman@rainforrent.com
72	RAM Jack USA	arthur@ramjackusa.com



1600 Battle Creek Road, Morrow, GA 30260

Jesters Creek East Outfall Replacement – Phase 2

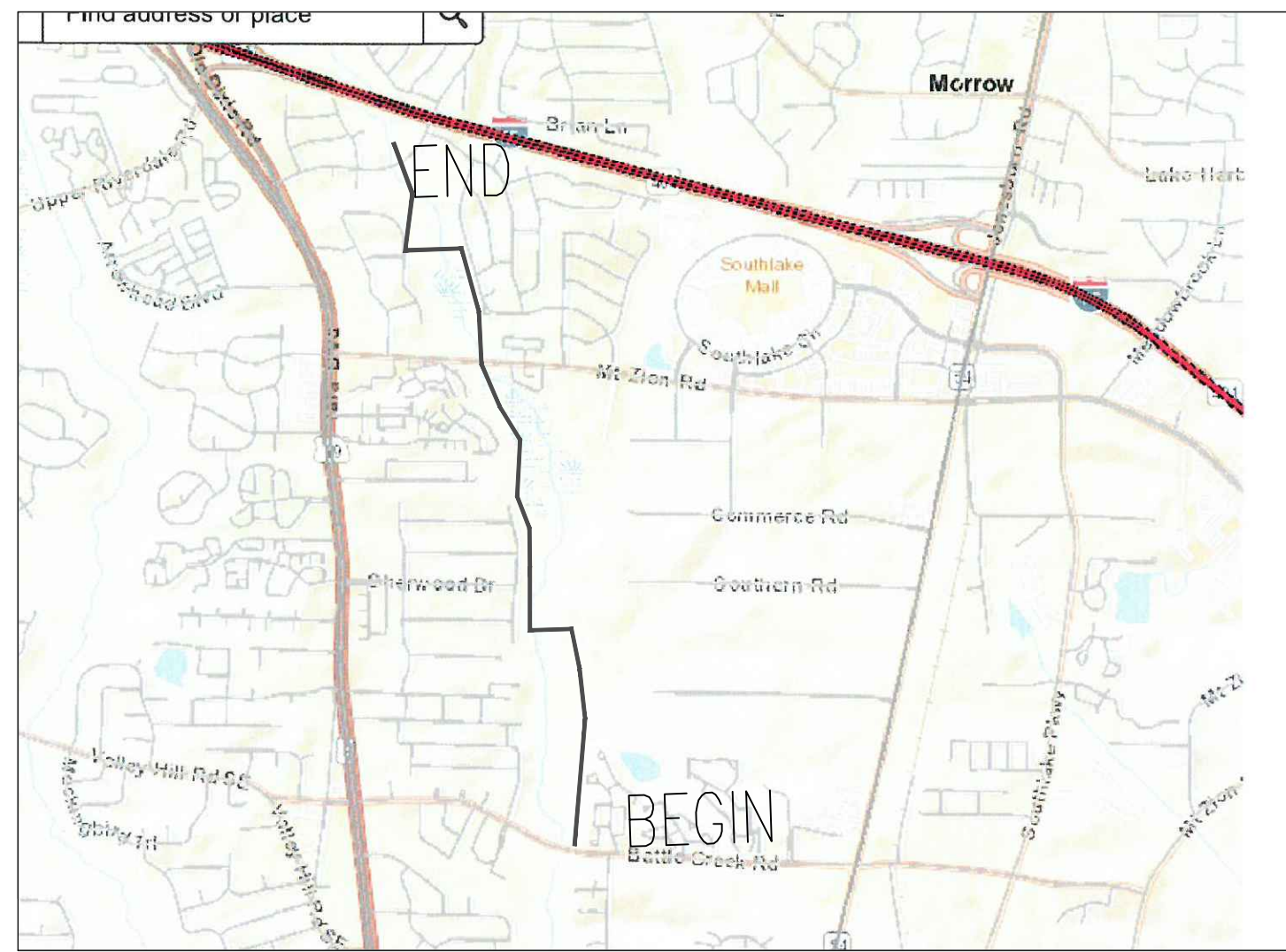
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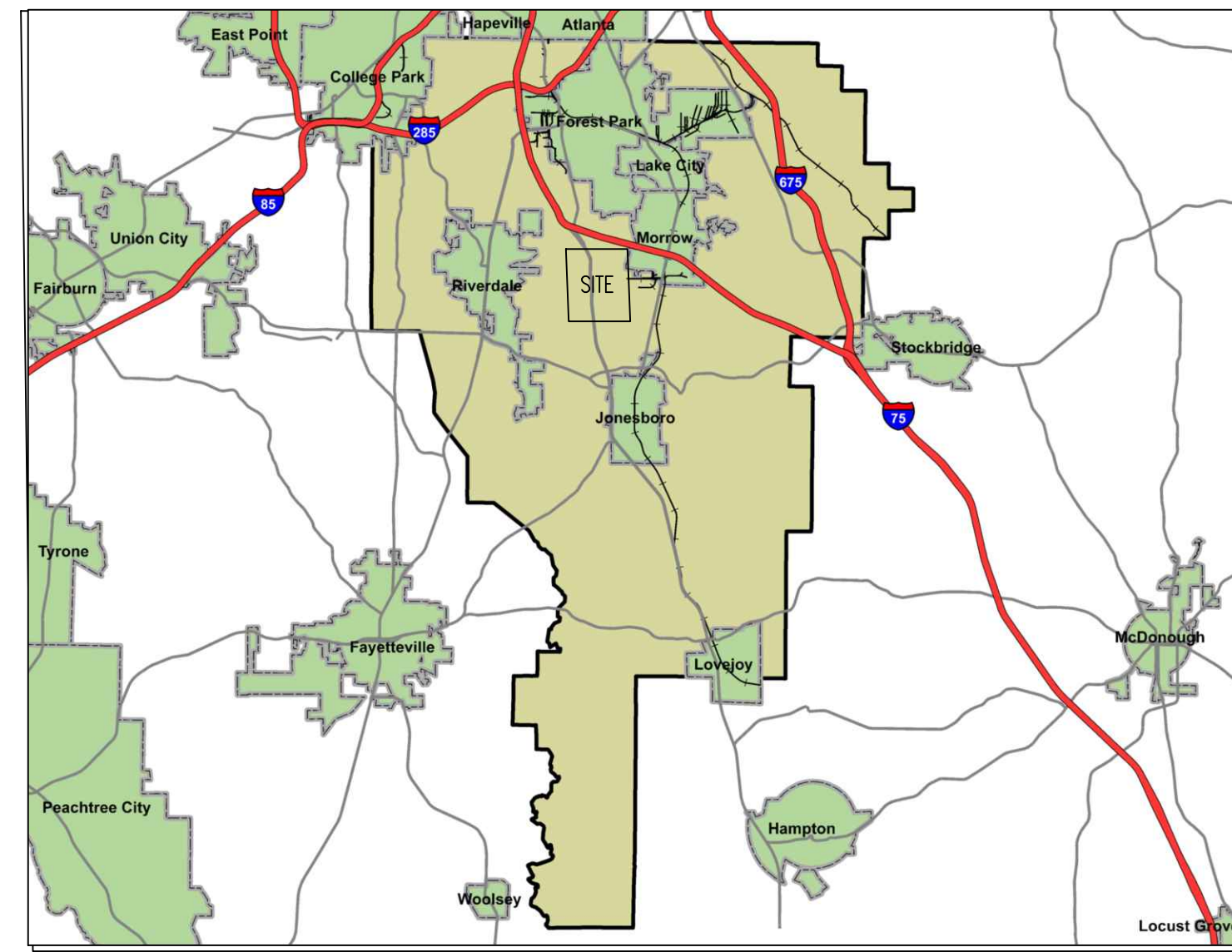
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- 73 RDJE, Inc. EShipley@RDJEInc.com SFuller@RDJEInc.com
- 74 Reeves & Young, LLC dwelch@reevesyoung.com
- 75 Reynolds Construction sandra.murphy@reynoldscon.com
- 76 Rockdale Pipeline Inc. srcooley@rockdalepipeline.com
- 77 Ruby-Collins, Inc. ncarr@ruby-collins.com
- 78 Russo Corporation jvaughn@russocorp.com
- 79 Site Engineering, Inc. tamara@siteengineeringinc.com
- 80 SoCo Contracting Company, Inc. mjoell@soco-contracting.com
- 81 SoilTek ahare@soiltekga.com
- 82 Sol Construction, LLC jgomez@solconstructionllc.com
- 83 Stephen Industries cclark@stephensmds.com
- 84 Strack Inc. meghanw@strackinc.com
- 85 Sunbelt Rentals kebin.friel@sunbeltrentals.com
- 86 Swing Construction Company, Inc. swingco@gmail.com
- 87 T.W. Brown Contracting chris@twbrown.com
- 88 TGS Construction Services tsgno@yahoo.com
- 89 The Blue Book Building & Construction Network vbifulco@mail.thebluebook.com
- 90 The Corbett Group, LLC scox@thecorbettgroup.net
- 91 The Renee Group Ajefferson@TheReneeGroup.com
- 92 Thompson Pipe Group aboer@thompsonpipegroup.com
- 93 Thomson Pump kkrause@thompsonpump.com
- 94 Thrasher Contracting, LLC mthrasher@thrashertrucking.com
- 95 TriScapes mmontgomery@johndstephens.com
- 96 United Grading & Excavating cmatticola@unitedgrading.com
- 97 Unity Construction Co., Inc. bclay@unitedgrading.com
- 98 Value Jetting Sewer & Drain alanunity@bellsouth.net
- 99 Wayne Davis Concrete valuejetting@bellsouth.net
- 100 YAH Group, LLC MCarson@waynedavisconcrete.com
- victorkuma@live.com

CONSTRUCTION PLAN FOR JESTERS CREEK EAST OUTFALL REPLACEMENT PHASE TWO FOR BID



VICINITY MAP GRID NORTH



LOCATION MAP GRID NORTH

GENERAL NOTES:

1. **PROJECT PURPOSE**
REPLACE EXISTING DETERIORATED 30&24-INCH SANITARY SEWER PIPES WITH 5,548 L.F. OF 36 INCH SANITARY SEWER PIPE AND 5,569 L.F. OF 24" SANITARY SEWER PIPE AND COMPLETE ALL NECESSARY RE-CONNECTIONS.
2. **OWNER/DEVELOPER**
CLAYTON COUNTY WATER AUTHORITY
1600 BATTLE CREEK ROAD
MORROW GEORGIA, 30260
OFFICE: (770)961-2130
3. **24 HOUR CONTACT**
CLAYTON COUNTY WATER AUTHORITY
GARFIELD W. COUSINS (CCWA)
GSWCC#0000076216
OFFICE (770)302-3429
CELL (770)843-7891
4. **PROJECT ADDRESS/LOCATION**
THE WORK WILL START AT THE SEWER MAIN JUST TO THE NORTH OF BATTLECREEK ROAD, THEN HEAD NORTHEASTERLY TOWARD MT ZION BOULEVARD AND CROSSING AND TURNING NORTH TO HOLIDAY BLVD.
5. **PROJECT FUNDING**
SOURCE NAME: CLAYTON COUNTY WATER AUTHORITY
6. **SITE VISIT**
THE PROPOSED ROUTE AND IMMEDIATE VICINITY WAS VISITED BY THE PLAN DESIGNER ON SEPTEMBER 9, 2020 PRIOR TO COMPLETING THE EROSION CONTROL PLAN.
7. **TOTAL PROJECT AREA AND DISTURBED AREA**
PROJECT AREA: 1,204,653.33 S.F. (24.98 ACRES)
DISTURBED AREA: 1,199,588 S.F. (27.54 ACRES)
8. **100-YEAR FLOOD PLAIN**
THIS PROJECT APPEARS TO CROSS IDENTIFIED 100 YEAR FLOOD HAZARD AREAS IN CLAYTON COUNTY THROUGHOUT THE PROJECT.

CLAYTON COUNTY F.I.R.M. COMMUNITY PANELS:
CLAYTON CO., PANEL NUMBER 130063C 0086F DATED JUNE 7, 2017
9. **WETLANDS**
THE DELINEATION OF JURISDICTIONAL WATERS FOR THIS PROJECT WAS COMPLETED BY GCR ENVIRONMENTAL, INC. IN APR. OF 2021. BASED ON THE RESULTS OF THE DELINEATION THE PROJECT ROUTE APPEARS TO CROSS JURISDICTIONAL WATERS. (SEE PAGES 2 THROUGH 4).

THE OWNER/DEVELOPER AND ENGINEER HAVE REVIEWED THE APPROPRIATE LOCAL, STATE, AND FEDERAL REGULATIONS REGARDING DEVELOPMENT ACTIVITIES ADJACENT TO FLOODPLAINS, STATE WATERS, AND WETLANDS AND HAVE DETERMINED THAT THIS DEVELOPMENT PLAN SATISFIES THE STANDARDS PRESENTED IN APPLICABLE REGULATIONS.
10. **U.S. ARMY CORPS OF ENGINEERS**
A PRE-CONSTRUCTION NOTIFICATION HAS BEEN SUBMITTED TO THE U.S.A.C.O.E.
11. **NPDES MONITORING**
STORM WATER RUNOFF ASSOCIATED WITH CONSTRUCTION ACTIVITY SHALL BE MONITORED AS PART OF THIS PROJECT.
12. **STATE WATERS**
BASED ON VISUAL RECONNAISSANCE ON AUGUST 29, 2020, THE PROJECT ROUTE DOES APPEAR TO CROSS STATE WATERS.
13. **STATE PLANE COORDINATE SYSTEM**
THE CONSTRUCTION DRAWINGS WERE PREPARED USING THE FOLLOWING COORDINATE SYSTEMS.
HORIZONTAL CONTROL: NORTH AMERICAN DATUM 83/94
VERTICAL CONTROL: NATIONAL GEODETIC VERTICAL DATA 88.
GRID ZONE: GEORGIA WEST 1002.



Know what's below.
Call before you dig.

DRAWING INDEX			
DRAWING #	TITLE	STATIONS	SHEET #
C-1	COVER		1
S-1	SITE PLAN	0+00 - 36+00	2
S-2	SITE PLAN	36+00 - 77+00	3
S-3	SITE PLAN	77+00-119+58	4
P-1	PLAN & PROFILE	0+00-16+00	5
P-2	PLAN & PROFILE	16+00-32+00	6
P-3	PLAN & PROFILE	32+00-47+50	7
P-4	PLAN & PROFILE	47+50-61+00	8
P-5	PLAN & PROFILE	61+00-75+00	9
P-6	PLAN & PROFILE	75+00-90+00	10
P-7	PLAN & PROFILE	90+00-106+00	11
P-8	PLAN & PROFILE	106+00-120+17	12
P-9	CONSTRUCTION DETAILS		13
D-1	DETAIL OF STAGING AREA ONE		14
D-2	EROSION & DEMOLITION	0+00-16+00	15
D-3	EROSION & DEMOLITION	16+00-32+00	16
D-4	EROSION & DEMOLITION	32+00-47+50	17
D-5	EROSION & DEMOLITION	47+50-75+00	18
D-6	EROSION & DEMOLITION	75+00-90+00	19
D-7	EROSION & DEMOLITION	90+00-106+00	20
D-8	EROSION & DEMOLITION	106+00-120+17	21
ES-1	EROSION CONTROL DETAILS		22
ES-2	EROSION CONTROL NOTES		23



**USGS TOPOGRAPHIC MAP: ATLANTA GA.
MAP DATE: 1996
SCALE: 1:5000**

LEGEND			
	E.P.	EDGE OF PAVEMENT	60
	MB	EXISTING MAIL BOX	25 FT 58
	WV	EXISTING WATER METER	50 FT 58
	FW	EXISTING WATER METER VAULT	STREAM-BANK
	OSP	CORROUGATED METAL PIPE	WETLANDS
	RSP	REINFORCED CONCRETE PIPE	100 YEAR FLOOD ELEVATION
	UP	DUCTILE IRON PIPE	EXISTING FENCE
	CTV	EXISTING CABLE TV BOX	LAND LOT LINE
			EXISTING OVERHEAD TRAFFIC SIGNAL LINES
			EXISTING UNDERGROUND TRAFFIC SIGNAL LINES
			EXISTING FIBER OPTIC CABLE
			EXISTING UNDERGROUND POWER LINES
			EXISTING OVERHEAD POWER LINES
			EXISTING UNDERGROUND TELEPHONE CONDUIT
			EXISTING UNDERGROUND CABLE TV
			EXISTING 6 INCH SEWER FORCE MAIN
			EXISTING SEWER MAIN, SIZE & FLOW DIRECTION
			EXISTING WATER MAIN & SIZE
			EXISTING WATER MAIN OR SERVICE
			EXISTING STORM MAIN SIZE & FLOW DIRECTION
			PROPOSED SEWER MAIN
			DEMOLITION / REMOVE PIPE AND MANHOLE
			DEMOLITION / GROUT FILL
			DEMOLITION / GRAVEL FILL
			SILT FENCE TYPE AS SPECIFIED
			CONSTRUCTION LIMITS

ITEM	CONSTRUCTION SCHEDULE																																					
	3/1/2022			4/1/2022			5/1/2022			6/1/2022			7/1/2022			8/1/2022			9/1/2022			10/1/2022			11/1/2022			12/1/2022			1/1/2023			2/1/2023			3/1/2023	
INSTALL EROSION CONTROL	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4		
EROSION CONTROL MAINTENANCE																																						
UTILITY CONSTRUCTION & CLEARING																																						
REGASSING																																						

PLANS PREPARED BY:

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

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PROJECT NAME:

**JESTERS CREEK EAST
OUTFALL REPLACEMENT
PHASE TWO**

LAND LOTS 145,146,176&177 DISTRICT 13
CLAYTON COUNTY, GEORGIA

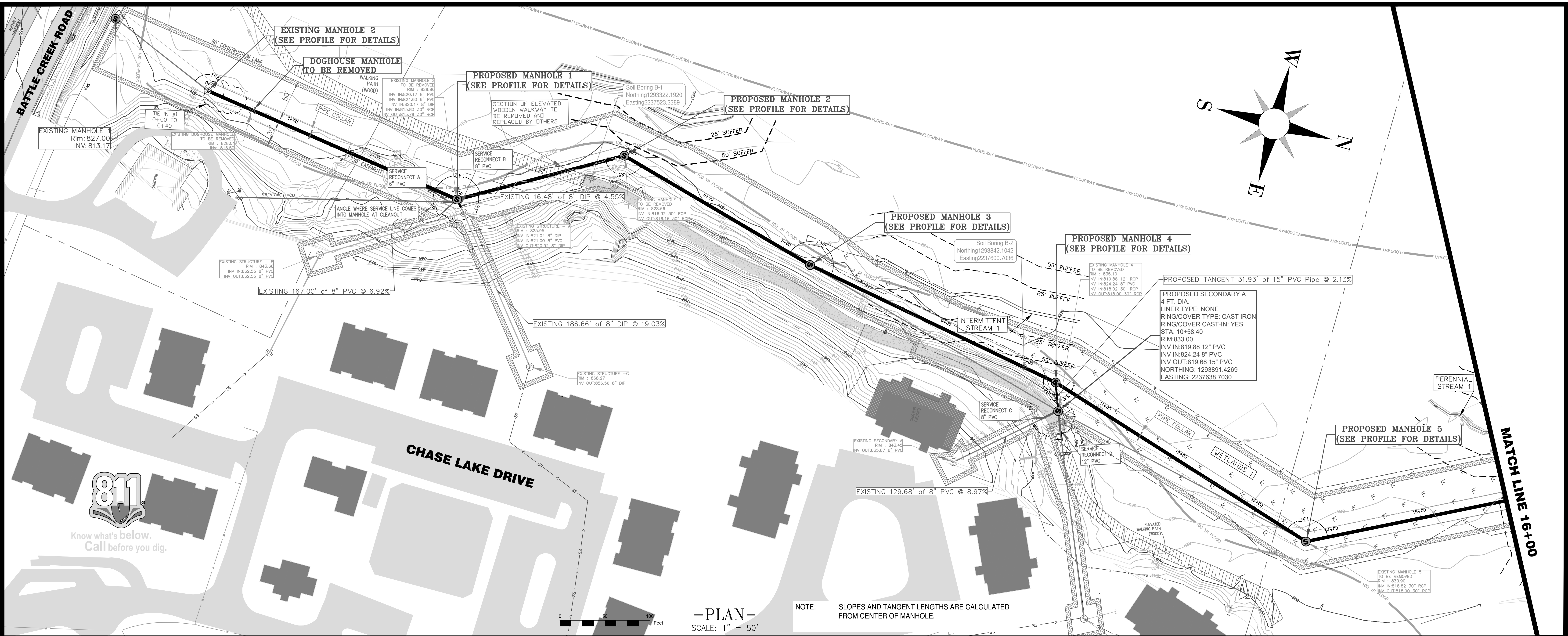
SEAL:

REVISIONS:

DATE:	NO.:	REQUESTED BY:	DESCRIPTION:
12-20-21	1	KW	WETLANDS 1 THROUGH 5 REVISED
12-20-21	2	KW	ALL 24" PIPE TO BE FRPMP
12-20-21	3	KW	NOTE ON P9 CHANGED
12-20-21	4	KW	DETAIL ON P9 CHANGED
12-20-21	5	KW	CONSTRUCTION LIMITS ON P7 CHANGED
12-20-21	6	KW	TIE IN NUMBER 2 LABEL

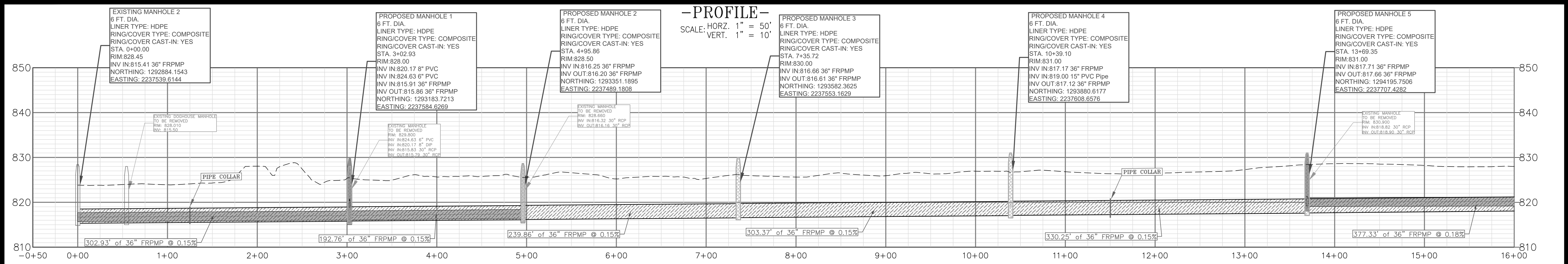
SHEET TITLE: SITE PLAN

DESIGN BY:	DATE:	10-28-21
CCWA		
DRAWN BY:	JOB #:	81914
JRM		
CHECKED BY:	DRAWING #:	C-1
SHEET NUMBER	SCALE:	N/A
1		
OF		23




-PLAN-
SCALE: 1" = 50'

NOTE: SLOPES AND TANGENT LENGTHS ARE CALCULATED FROM CENTER OF MANHOLE.



-PROFILE-
SCALE: HORZ. 1" = 50'
VERT. 1" = 10'

PLANS PREPARED BY:



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PHASE TWO

LAND LOTS 145,146,176&177 DISTRICT 13
CLAYTON COUNTY, GEORGIA



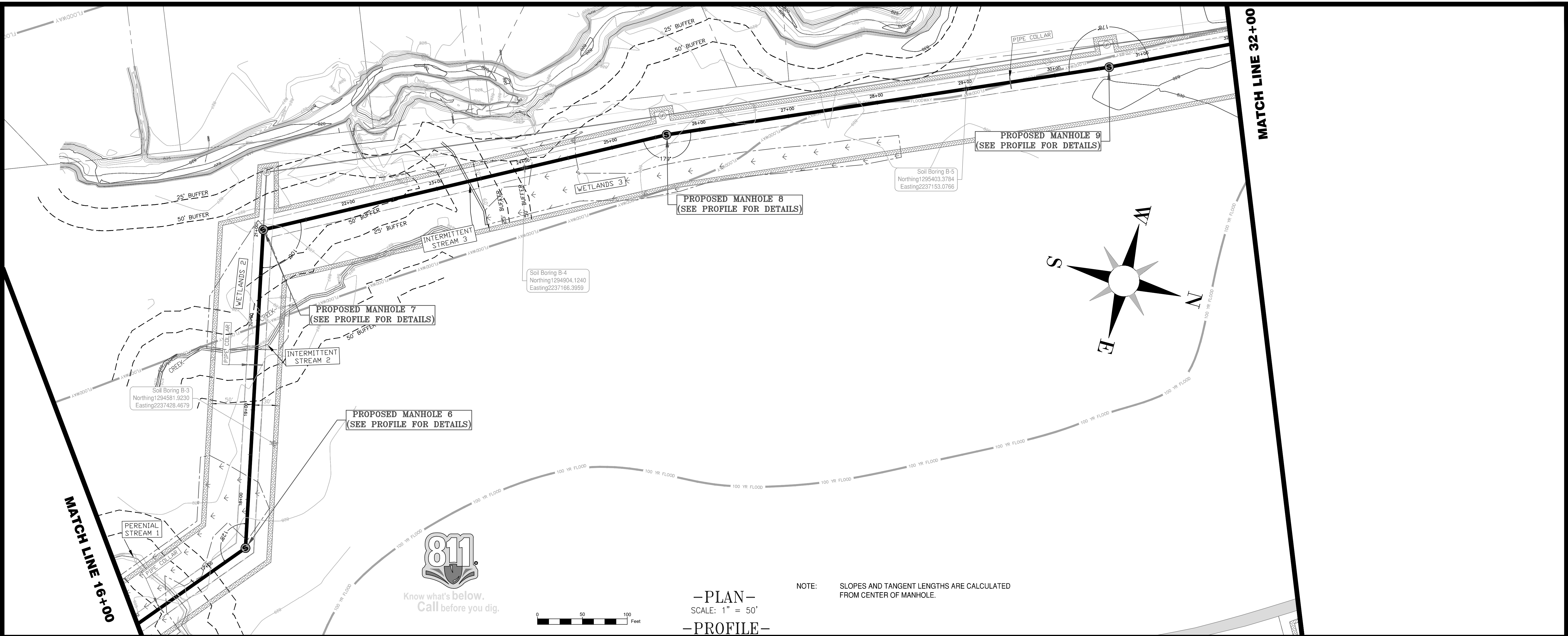
SEAL:

REVISIONS:

DATE:	NO.:	REQUESTED BY:	DESCRIPTION:
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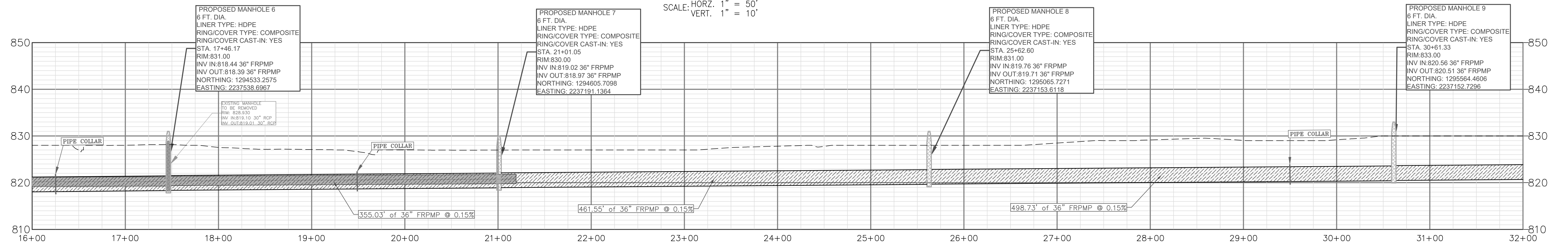
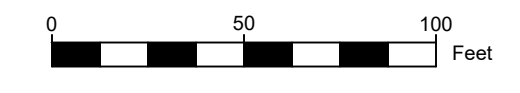
SHEET TITLE: PLAN AND PROFILE

DESIGN BY:	DATE:	10-28-21
CCWA	JOB #:	81914
DRAWN BY:	DRAWING #:	P-1
JRM	SCALE:	1" = 50'
CHECKED BY:	SHEET NUMBER	5 OF 23



-PLAN-
SCALE: 1" = 50'
-PROFILE-
SCALE: HORIZ. 1" = 50'
VERT. 1" = 10'

NOTE: SLOPES AND TANGENT LENGTHS ARE CALCULATED FROM CENTER OF MANHOLE.



PLANS PREPARED BY:

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OUTFALL REPLACEMENT
PHASE TWO**

LAND LOTS 145,146,176&177 DISTRICT 13
CLAYTON COUNTY, GEORGIA

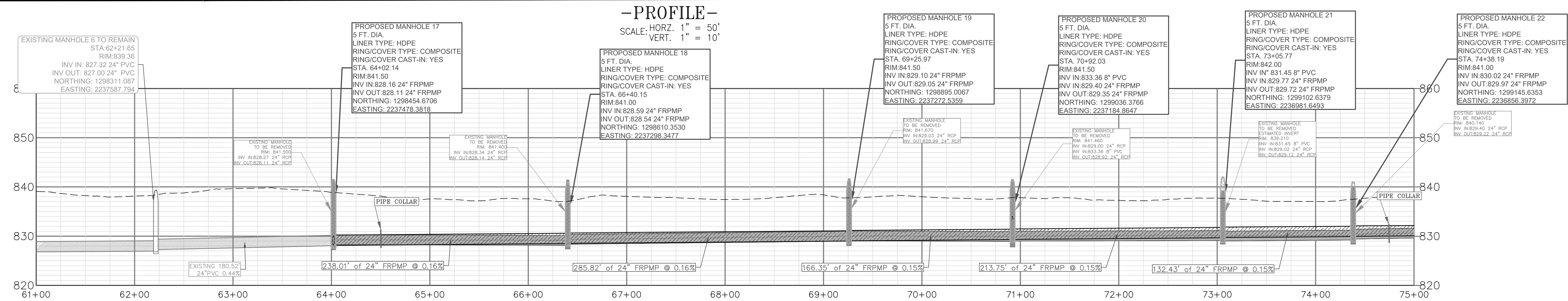
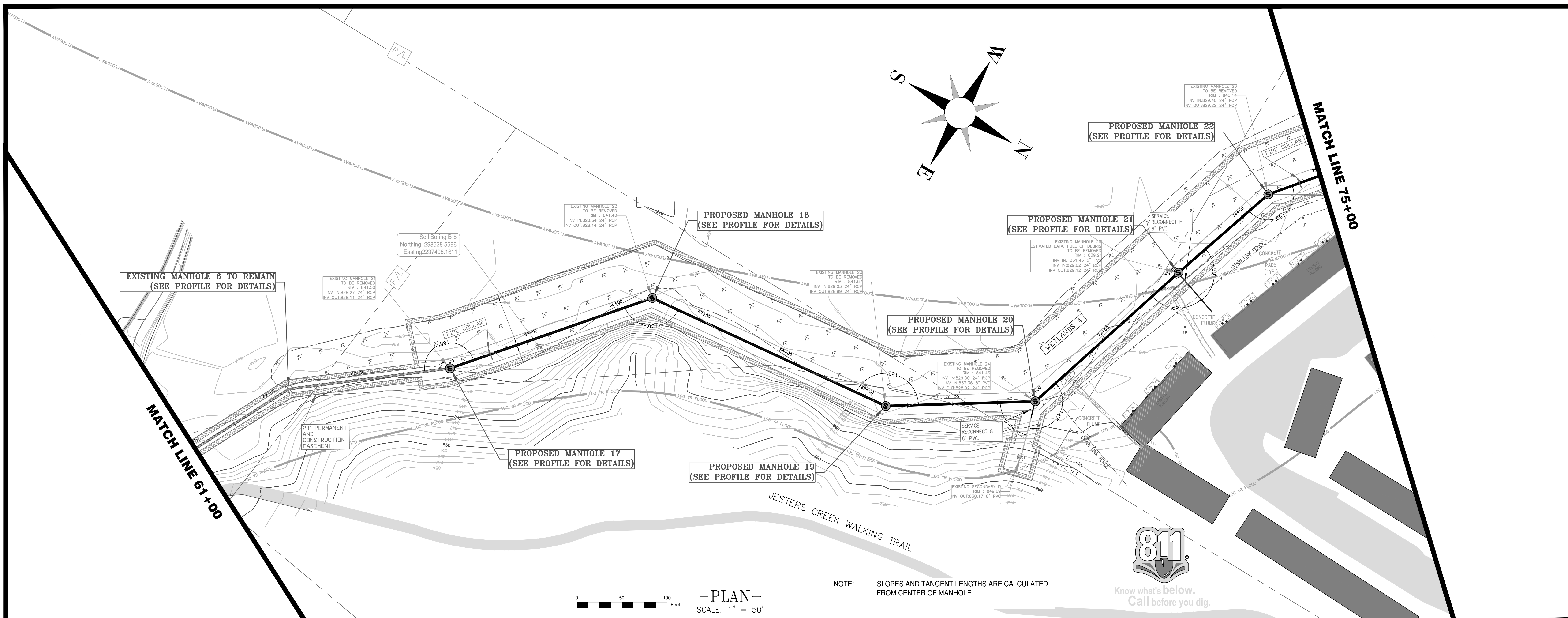
SEAL:


REVISIONS:

DATE:	NO.:	REQUESTED BY:	DESCRIPTION:
12-20-21	1	KW	WETLANDS 1 THROUGH 6 REVISED

SHEET TITLE: PLAN AND PROFILE


DESIGN BY:	CCWA	DATE:	10-28-21
DRAWN BY:	JRM	JOB #:	81914
CHECKED BY:		DRAWING #:	P-2
		SCALE:	1" = 50'
		SHEET NUMBER	6 OF 23



PLANS PREPARED BY:

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 1600 BATTLE CREEK ROAD
 MORROW, GEORGIA 30260

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JESTERS CREEK EAST
OUTFALL REPLACEMENT
PHASE TWO
 LAND LOTS 145,146,176&177 DISTRICT 13
 CLAYTON COUNTY, GEORGIA

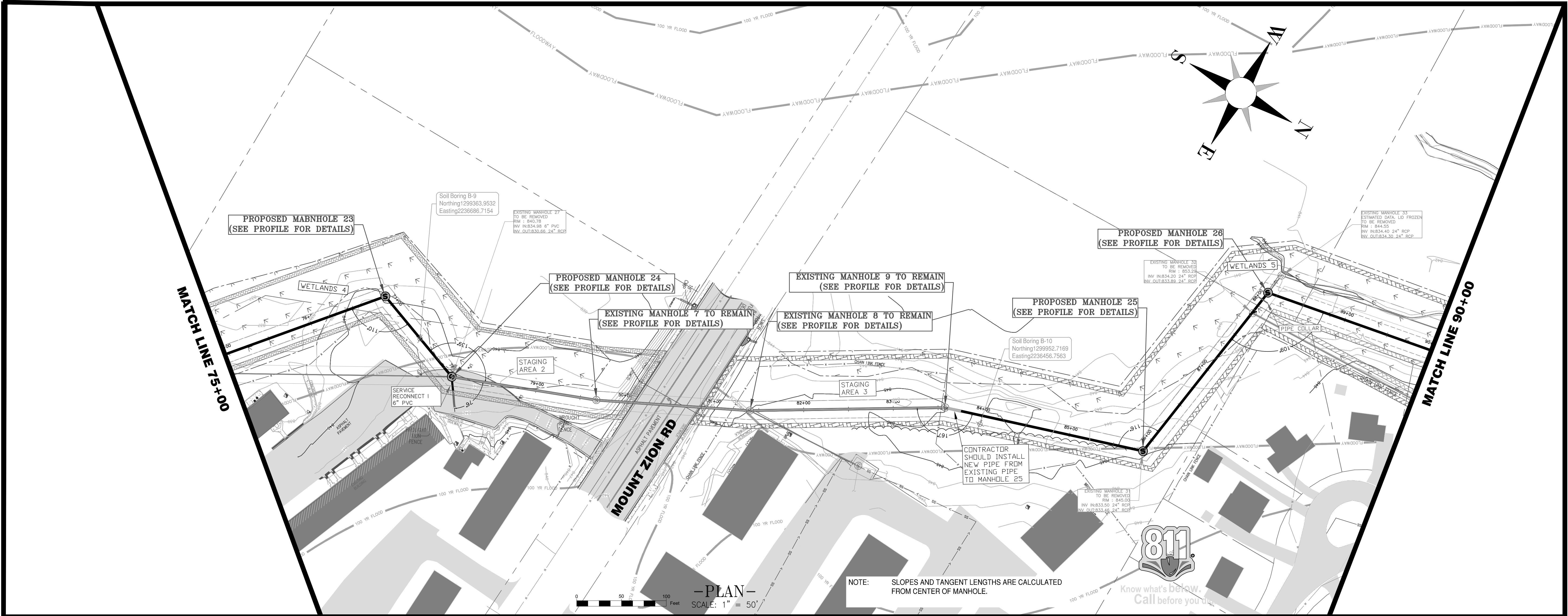

SEAL:

REVISIONS:

DATE:	NO.:	REQUESTED BY:	DESCRIPTION:
12-20-21	1	KW	WETLANDS 1 THROUGH 6 REVISED
12-20-21	2	KW	ALL 24" PIPE TO BE FRPMP

SHEET TITLE: PLAN AND PROFILE

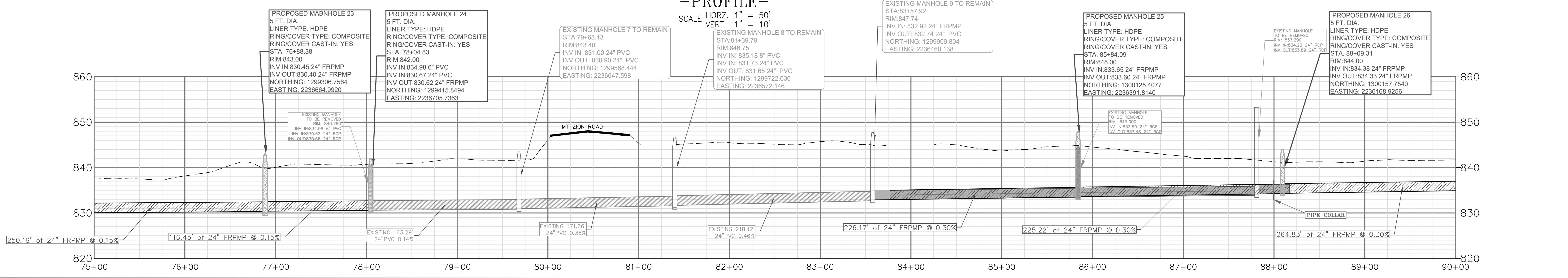
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CCWA	JOB #:	81914
DRAWN BY:	DRAWING #:	P-5
JRM	SCALE:	1" = 50'
CHECKED BY:	SHEET NUMBER	9 OF 23



-PLAN-
SCALE: 1" = 50'

NOTE: SLOPES AND TANGENT LENGTHS ARE CALCULATED FROM CENTER OF MANHOLE.

-PROFILE-
SCALE: HORIZ. 1" = 50'
VERT. 1" = 10'



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OUTFALL REPLACEMENT
PHASE TWO**

LAND LOTS 145,146,176&177 DISTRICT 13
CLAYTON COUNTY, GEORGIA

SEAL:

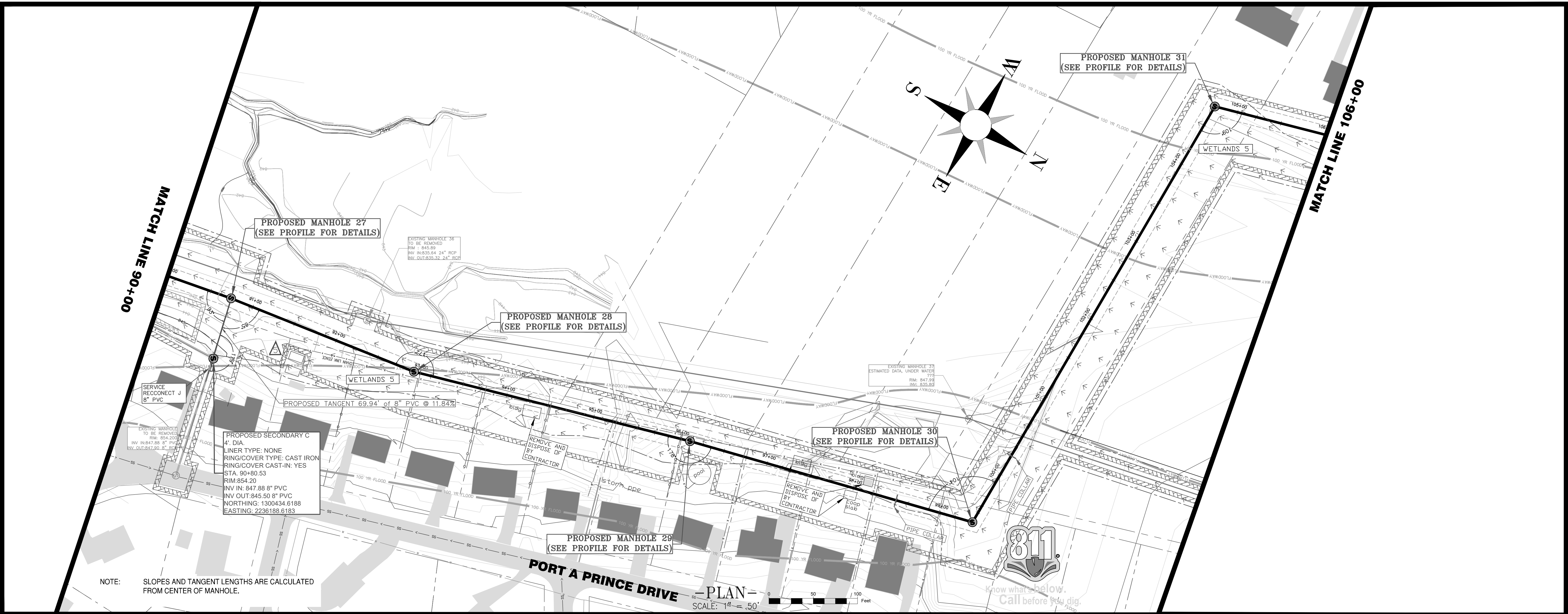
[Professional Engineer Seal]

REVISIONS:

DATE:	NO.:	REQUESTED BY:	DESCRIPTION:
12-20-21	1	KW	WETLANDS 1 THROUGH 6 REVISED
12-20-21	2	KW	ALL 24" PIPE TO BE FRPMP

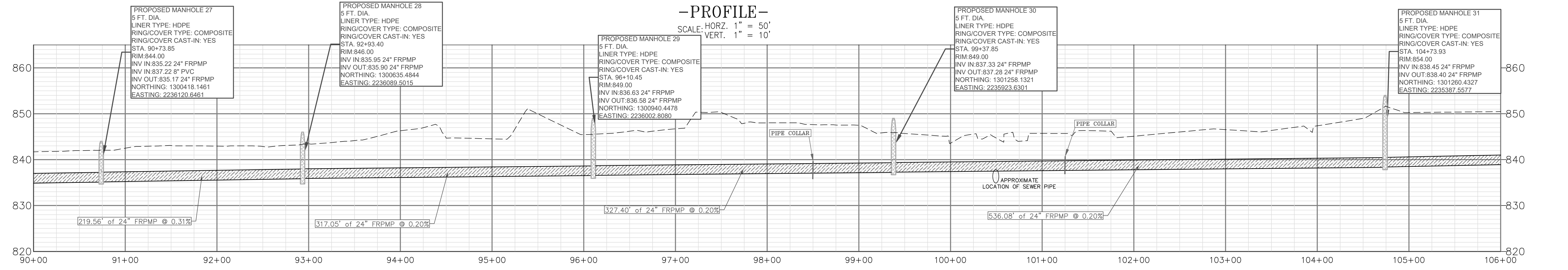
SHEET TITLE: PLAN AND PROFILE

DESIGN BY:	DATE:	10-28-21
CCWA	JOB #:	81914
DRAWN BY:	DRAWING #:	P-6
JRM	SCALE:	1" = 50'
CHECKED BY:	SHEET NUMBER	10 OF 23



NOTE: SLOPES AND TANGENT LENGTHS ARE CALCULATED FROM CENTER OF MANHOLE.

PORT A PRINCE DRIVE
 -PLAN-
 SCALE: 1" = 50'



-PROFILE-
 SCALE: HORZ. 1" = 50'
 VERT. 1" = 10'

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 CLAYTON COUNTY WATER AUTHORITY
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JESTERS CREEK EAST
OUTFALL REPLACEMENT
PHASE TWO
 LAND LOTS 145,146,176&177 DISTRICT 13
 CLAYTON COUNTY, GEORGIA

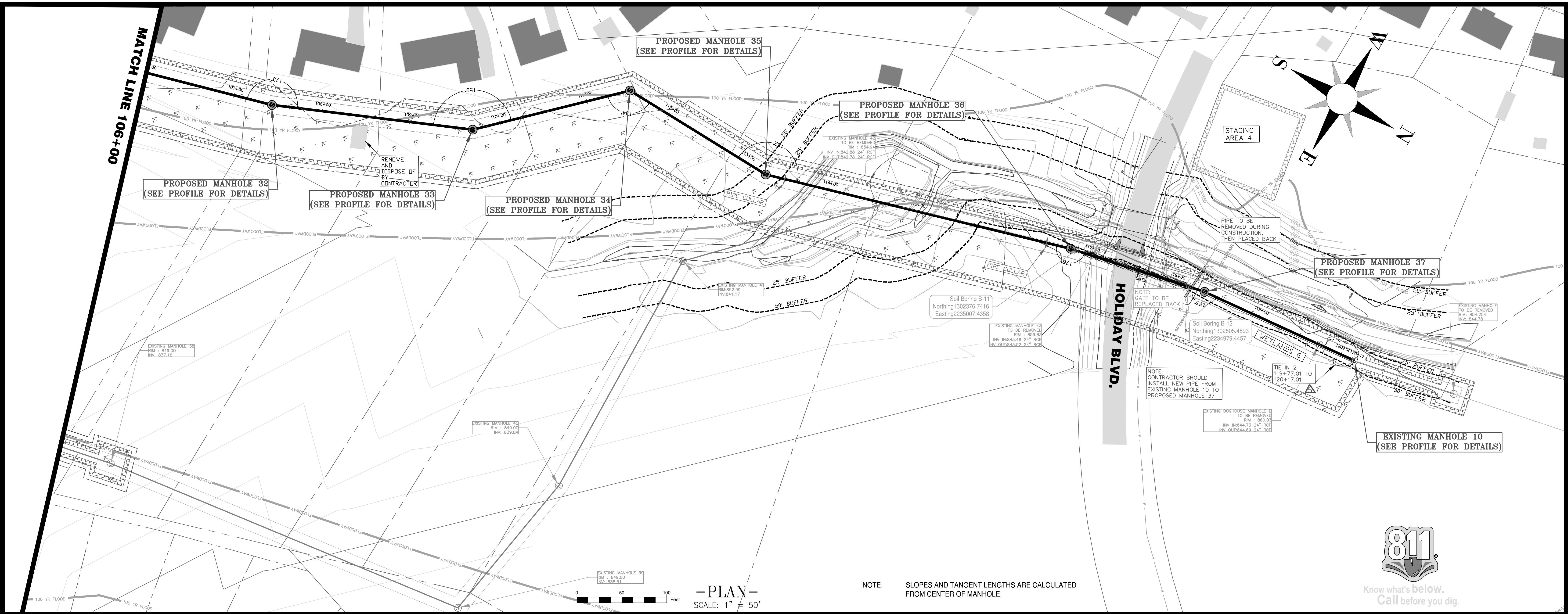
SEAL:

REVISIONS:

DATE:	NO.:	REQUESTED BY:	DESCRIPTION:
12-20-21	1	KW	WETLANDS 1 THROUGH 6 REVISED
12-20-21	2	KW	ALL 24" PIPE TO BE FRPMP
12-20-21	5	KW	REVISED CONSTRUCTION LIMITS

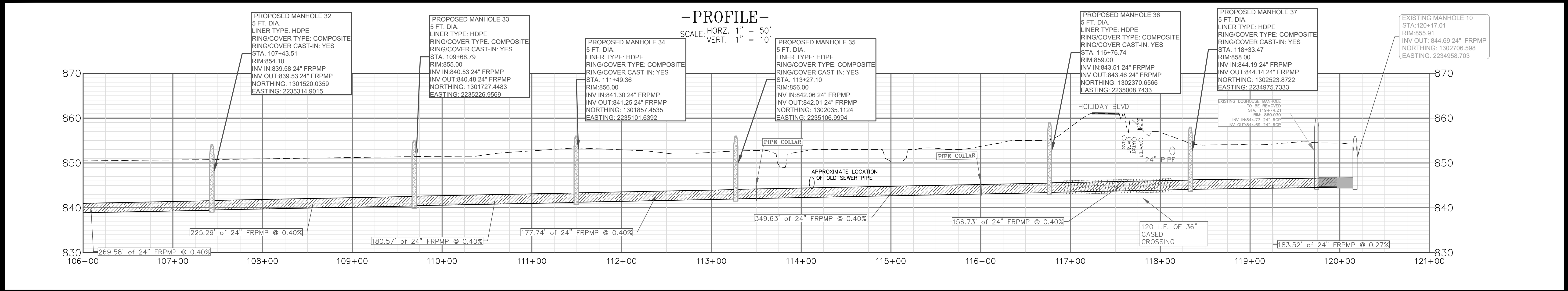
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DRAWN BY:	JRM	JOB #:	81914
CHECKED BY:		DRAWING #:	P-7
		SCALE:	1" = 50'
		SHEET NUMBER	11 OF 23



—PLAN—
SCALE: 1" = 50'

NOTE: SLOPES AND TANGENT LENGTHS ARE CALCULATED FROM CENTER OF MANHOLE.



—PROFILE—
SCALE: HORZ. 1" = 50'
VERT. 1" = 10'

PLANS PREPARED BY:
CLAYTON COUNTY WATER AUTHORITY
 1600 BATTLE CREEK ROAD
 MORROW, GEORGIA 30260

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PROJECT NAME:
JESTERS CREEK EAST
OUTFALL REPLACEMENT
PHASE TWO
 LAND LOTS 143,146,176&177 DISTRICT 13
 CLAYTON COUNTY, GEORGIA

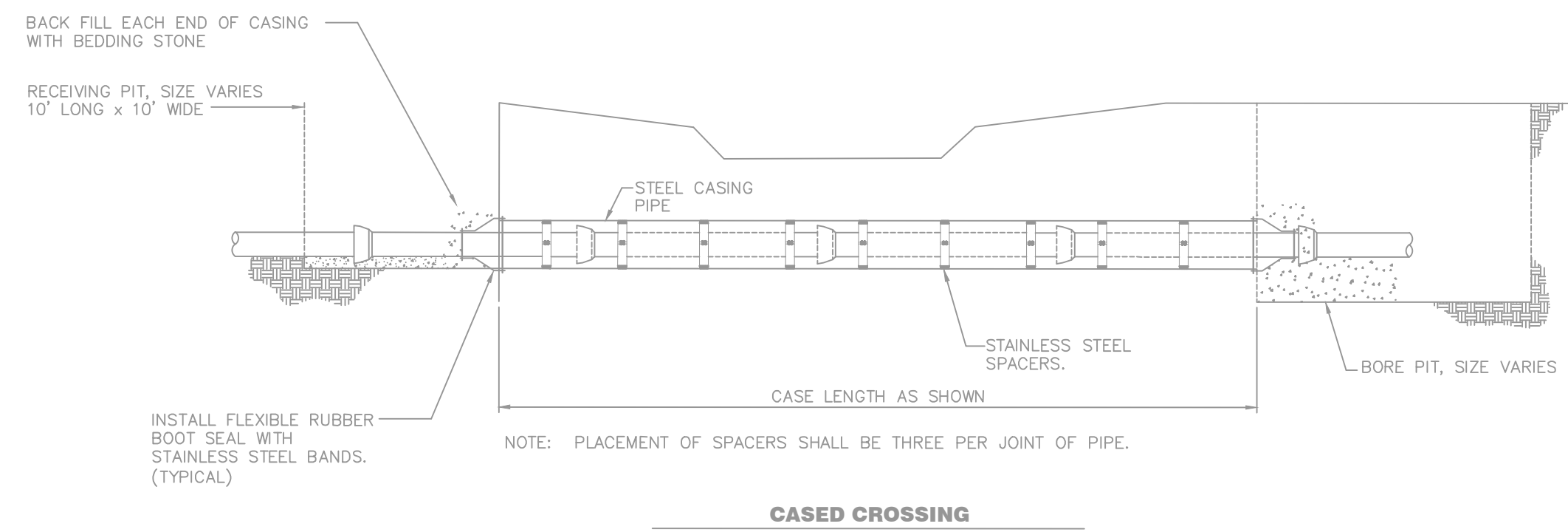
SEAL:

REVISIONS:

DATE:	NO.:	REQUESTED BY:	DESCRIPTION:
12-20-21	1	KW	WETLANDS 1 THROUGH 6 REVISED
12-20-21	2	KW	ALL 24" PIPE TO BE FRPMP
12-20-21	6	KW	TIE IN NUMBER 2 LABEL

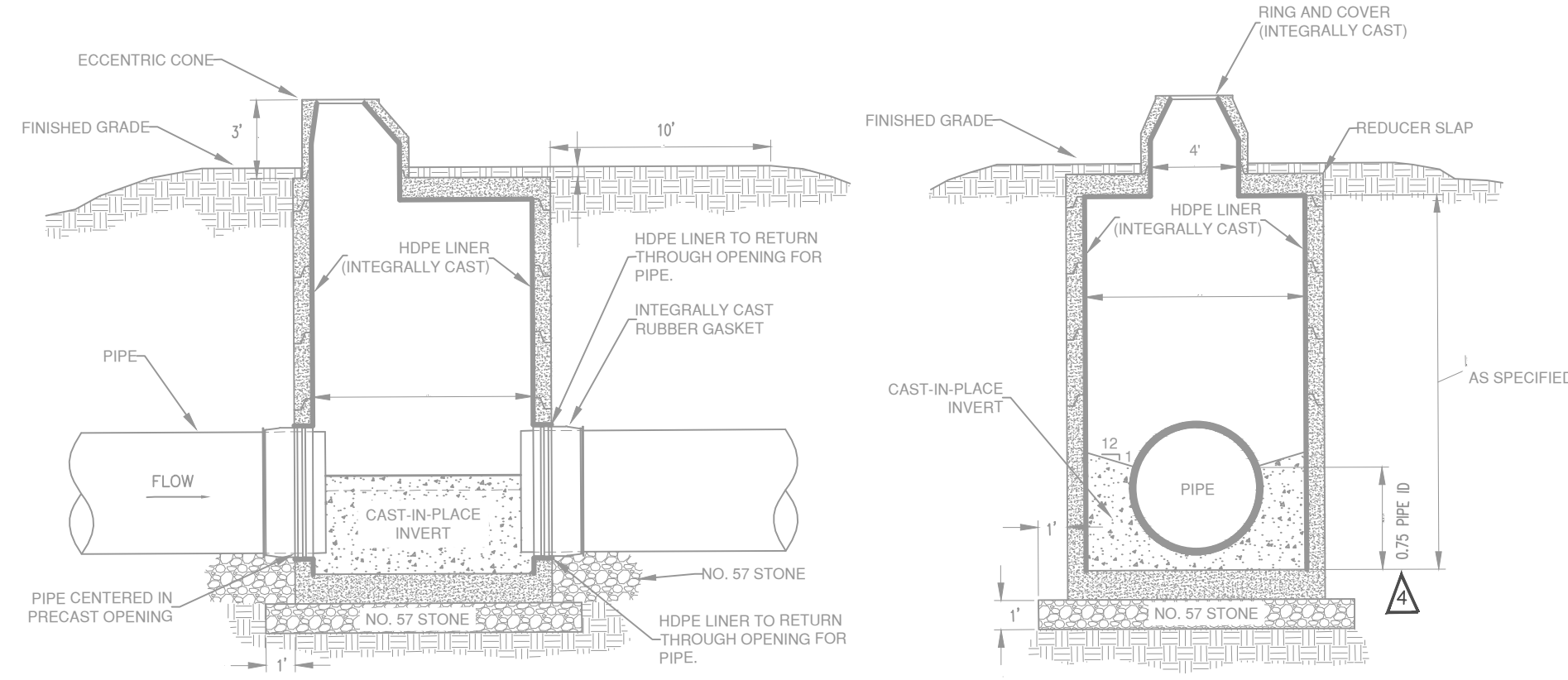
SHEET TITLE: PLAN AND PROFILE

DESIGN BY:	CCWA	DATE:	10-28-21
DRAWN BY:	JRM	JOB #:	81914
CHECKED BY:		DRAWING #:	P-8
		SCALE:	1" = 50'
		SHEET NUMBER	12 OF 23



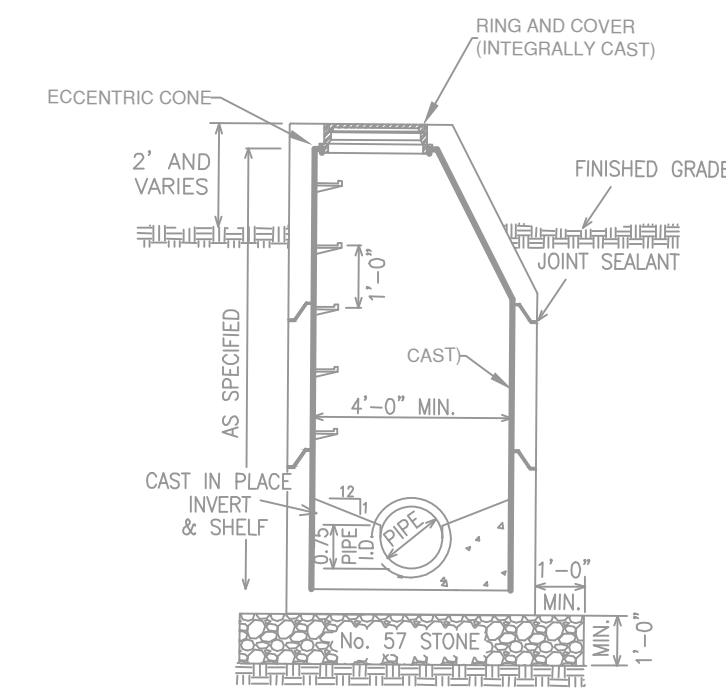
CASED CROSSING
N.T.S.

NOTE: PLACEMENT OF SPACERS SHALL BE THREE PER JOINT OF PIPE.



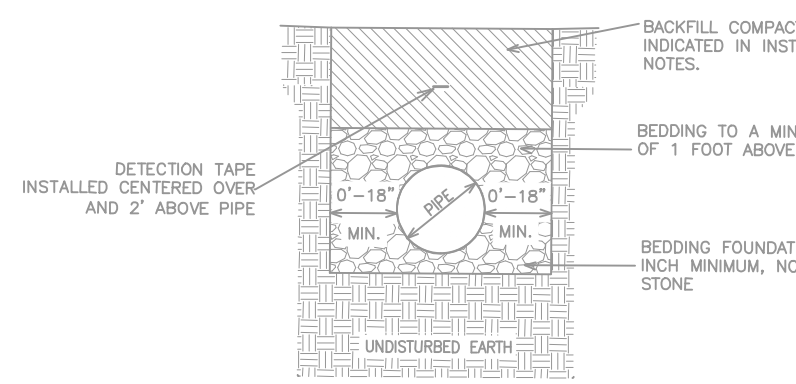
1. MAINTAIN 1/2" CLEARANCE BETWEEN PIPE AND CAST-IN PLACE INVERT AT ALL EDGES / SURFACES.
2. SHELF AND INVERT SHALL BE TROWEL FINISHED.
3. WHEN BRICK IS USED AS A FILLER, PROVIDE MINIMUM 2 INCHES GROUT OVER BRICK.
4. INSTALL 4" DIAMETER CONE SECTION ON THE UPSTREAM SIDE OF THE LARGE DIAMETER MANHOLE.

LARGE DIAMETER MANHOLE SECTION
N.T.S.



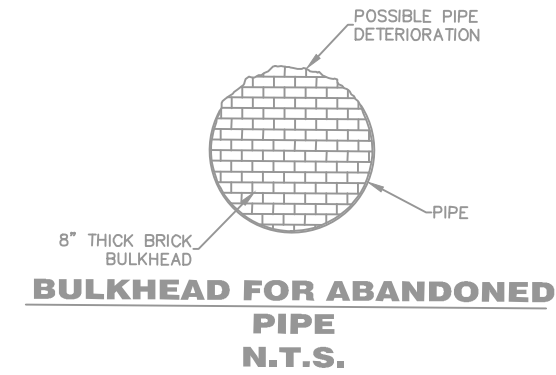
1. MAINTAIN 1/2" CLEARANCE BETWEEN PIPE AND CAST-IN PLACE INVERT AT ALL EDGES / SURFACES.
2. SHELF AND INVERT SHALL BE TROWEL FINISHED.
3. WHEN BRICK IS USED AS A FILLER, PROVIDE MINIMUM 2 INCHES GROUT OVER BRICK.

SMALL DIAMETER MANHOLE SECTION
N.T.S.

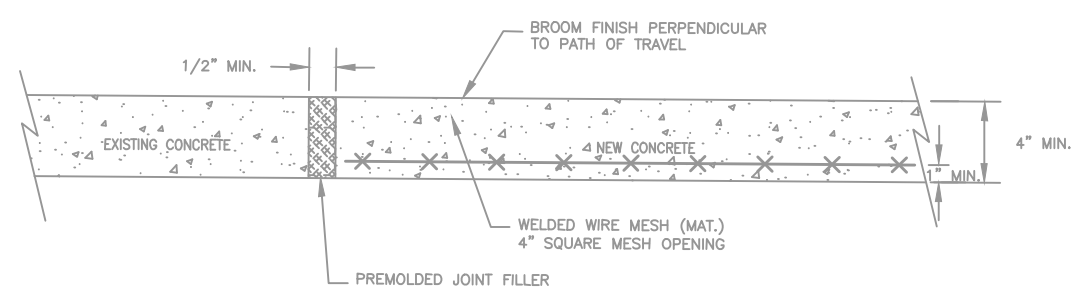


NOTE: 1) UNSUITABLE SOILS ENCOUNTERED IN BOTTOM OF EXCAVATED TRENCH SHALL BE EXCAVATED & REPLACED WITH NO. 57 STONE. ONLY SUITABLE SOIL SHALL BE USED AS BACKFILL.

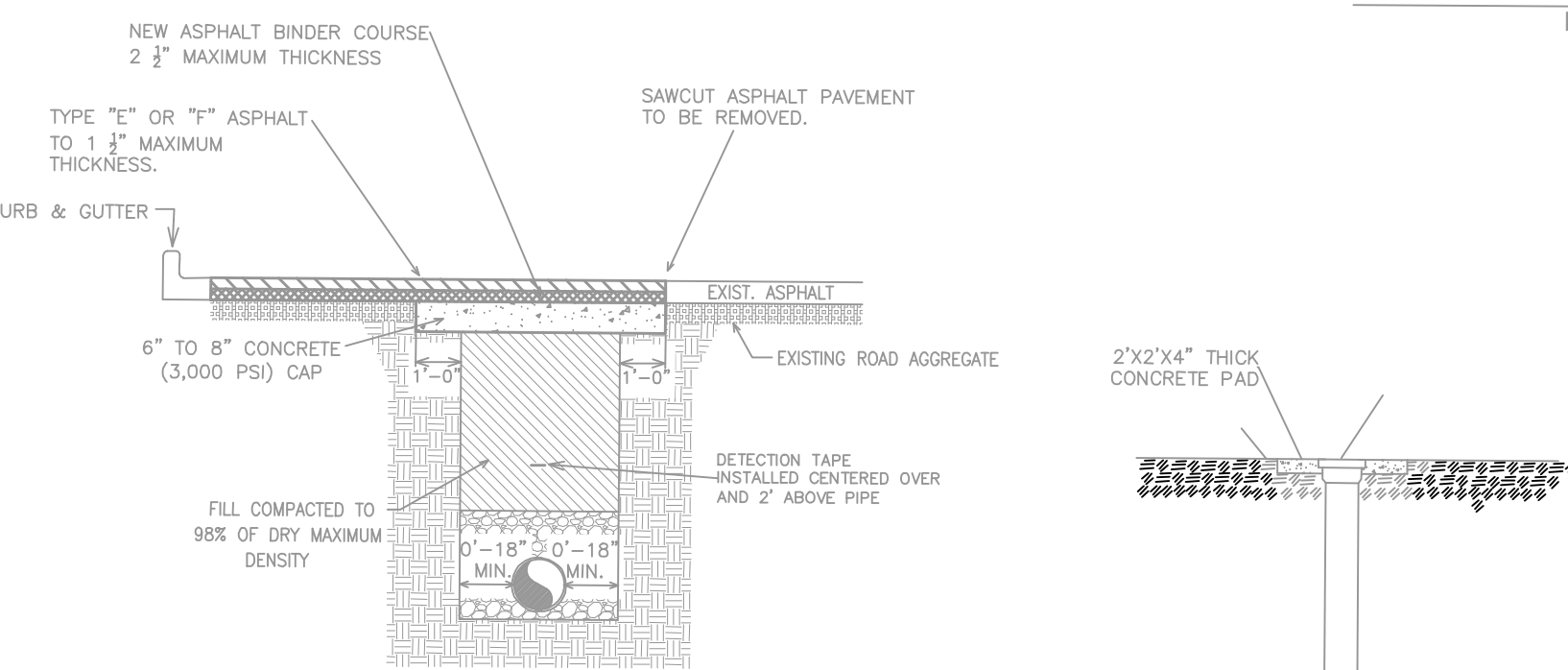
TYPICAL SANITARY SEWER PIPE BEDDING
N.T.S.



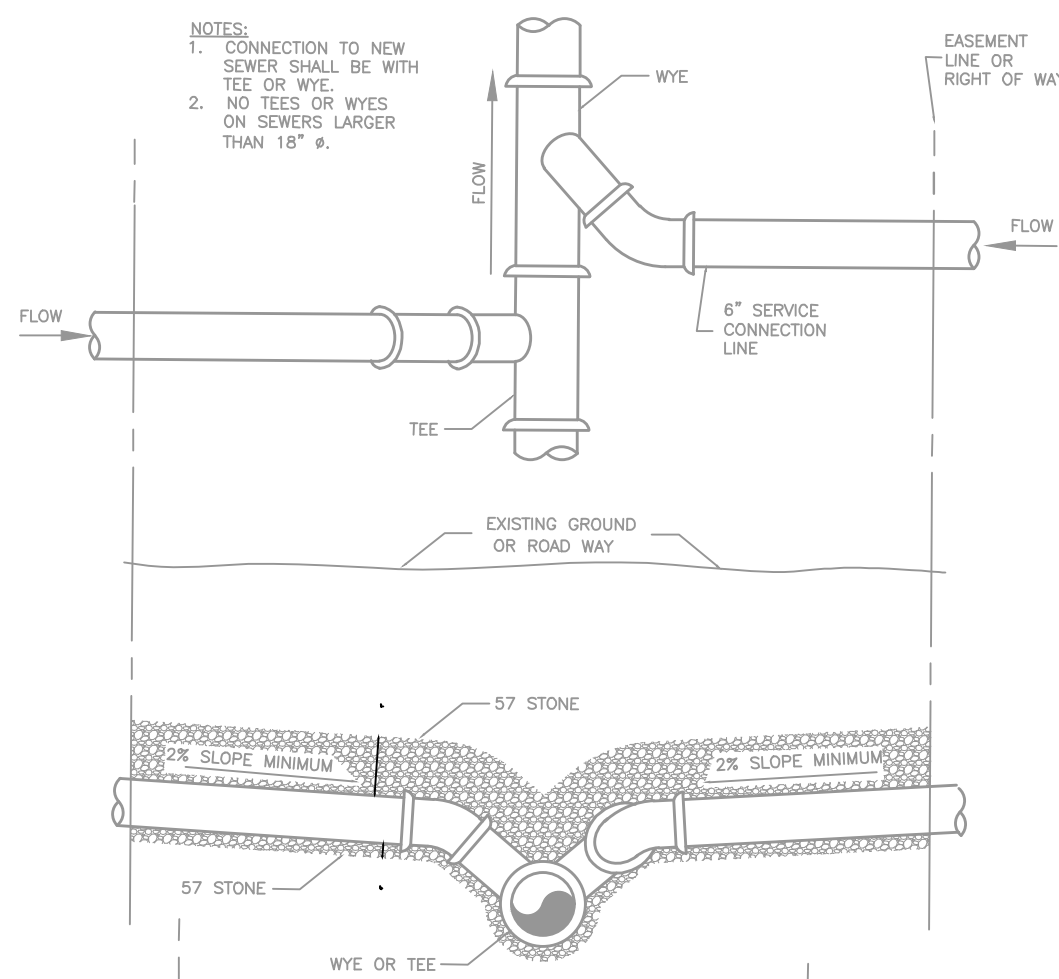
BULKHEAD FOR ABANDONED PIPE
N.T.S.



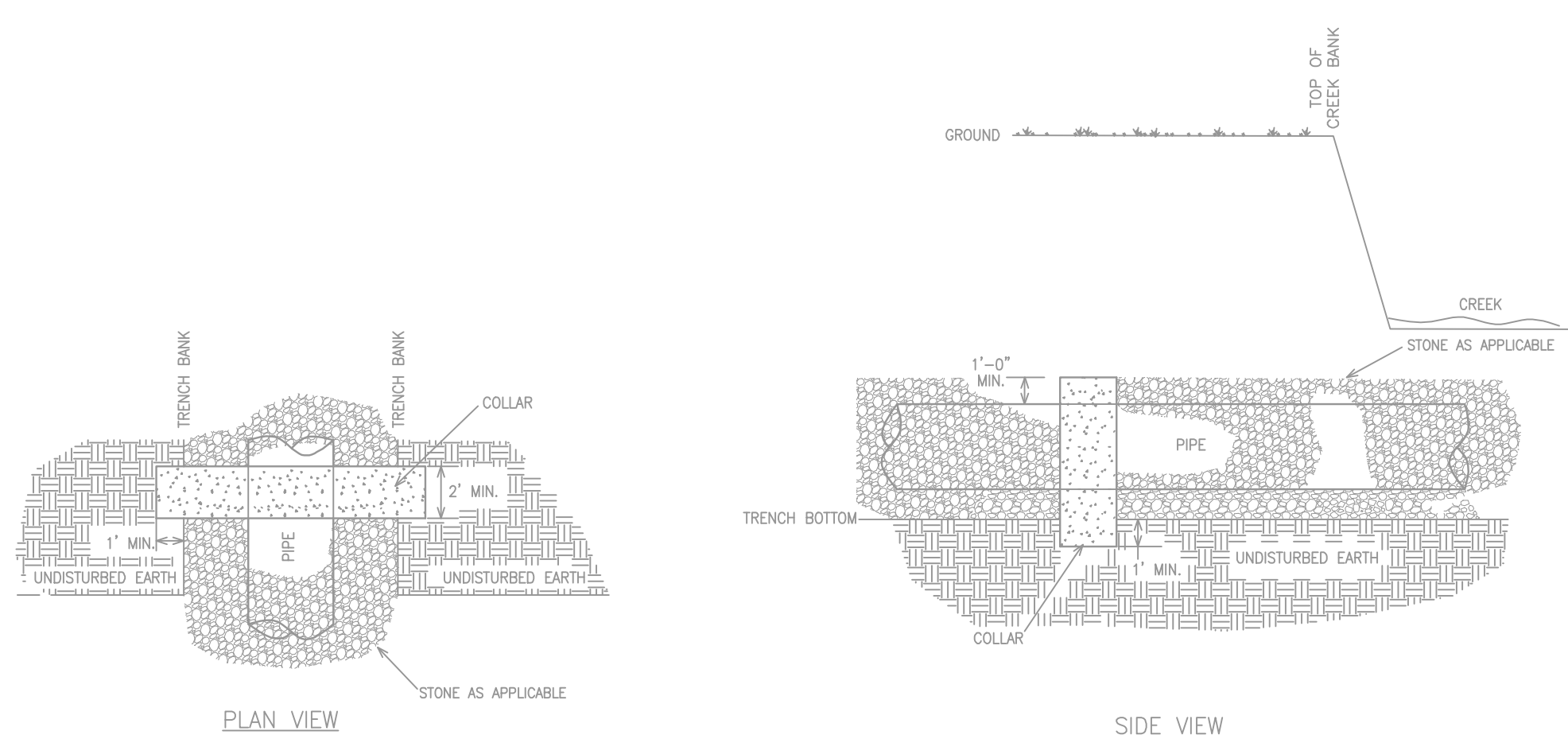
TYPICAL CONCRETE PAVEMENT DETAIL
N.T.S.



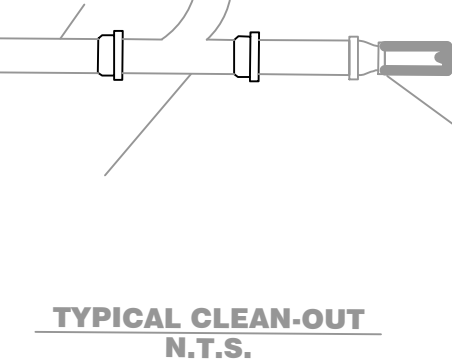
TYPICAL ASPHALT CROSSING
N.T.S.



TYPICAL PIPE LATERAL CONNECTION
N.T.S.



TYPICAL PIPE COLLAR
N.T.S.



GENERAL NOTES

1. CONSTRUCTION OF THE SANITARY SEWER MAIN SHALL CONFORM TO THE CLAYTON COUNTY WATER AUTHORITY (CCWA) STANDARD SPECIFICATIONS FOR CONSTRUCTION SPECIFICATIONS FOR THE JESTERS CREEK EAST OUTFALL REPLACEMENT, PHASE TWO.
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 (778-841-2330).
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 PERMANENT EASEMENTS/ 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 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 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 SPOT WIDE CONSTRUCTION LANE MAY BE CLEARED AT THE CONTRACTORS 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 AS BACK FILL SHALL BE REMOVED OFF-SITE BY CONTRACTOR.
8. REMOVE/REPLACE 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 THAN 3/8" 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 CROWDING.
3. LAYING AND JOINTING OF PIPE AND FITTINGS SHALL BE IN ACCORDANCE WITH THE MANUFACTURERS 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 MANUFACTURERS 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 10" FOOT HORIZONTAL SEPARATION AND A 34" INCH VERTICAL SEPARATION BETWEEN ALL WATER AND SEWER LINES UNLESS INDICATED OTHERWISE.
8. INSTALL WARNING TAPE ABOVE PIPE AS INDICATED ON TYPICAL PIPE DETECTION INSTALLATION DETAIL.
9. FROM THE BOTTOM OF PIPE TO PIPE DIAMETER, PIPE BEDDING MATERIAL SHALL BE SHOVEL BACKFILL COMPACTED USING AN IRONS PRIOR TO PLACING SUBSEQUENT BACKFILL.
10. BACKFILL UNDERLYING PAVEMENT, DIRT AND GRAVEL ROADS AND ROAD RIGHT OF WAYS SHALL BE COMPACTED TO 98% OF THE MAXIMUM DRY DENSITY AS DETERMINED BY THE STANDARD PROCTOR ANALYSIS (ASTM D1557).
11. BACKFILL NOT UNDERLYING PAVED AREAS SHALL BE COMPACTED TO 90% OF THE MAXIMUM DRY DENSITY AS DETERMINED BY THE STANDARD PROCTOR ANALYSIS (ASTM D1557).
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 TO PROTECT LIVESTOCK.
16. THE CONTRACTOR SHALL REPLACE ALL FENCE WITH EXISTING FENCE MATERIAL UNLESS EXISTING FENCE MATERIAL IS 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 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 CURED OUT 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 PRESSURE 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 AT A MINIMUM OF 3.5 PSI. TEST SHALL BE CONSIDERED ACCEPTABLE WHEN AN AIR PRESSURE EQUIVALENT TO THE STABILIZED PRESSURE IS MAINTAINED FOR A PERIOD OF 30 MINUTES.
3. TELEVISION: GRAVITY SEWER PIPE SHALL BE TELEVIEWED TO ENSURE INTEGRITY. TEST SHALL BE CONSIDERED ACCEPTABLE WHEN THE TELEVIEWED PIPE DOES NOT REVEAL THE FOLLOWING: CRACKS IN PIPE, PROTRUDING GASSETS, LEAKING JOINTS, PIPE DEFORMATIONS, OTHER DEFICIENCIES.
4. 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 2% 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 2% 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 HDPE 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:

**JESTERS CREEK EAST
OUTFALL REPLACEMENT
PHASE TWO**

LAND LOTS 145,146,176&177 DISTRICT 13
CLAYTON COUNTY, GEORGIA



JOB NO: 145,146,176 & 177
OUTFALL REPLACEMENT

SEAL:

REVISIONS:

DATE:	NO.:	REQUESTED BY:	DESCRIPTION:
12-20-21	3	KW	VERIFY 98% MAX DRY DENSITY IN NOTES
12-20-21	4	KW	VERIFY INVERT POURED TO 0.75ID ON DETAIL

SHEET TITLE: CONSTRUCTION DETAILS

DESIGN BY:	DATE:	10-28-21
CCWA	JOB #:	81914
DRAWN BY:	DRAWING #:	P-9
JRM	SCALE:	1" = N/A
CHECKED BY:	SHEET NUMBER	13 OF 23