



MARK WILLIAMS
COMMISSIONER

A.G. 'SPUD' WOODWARD
DIRECTOR

APR 14 2017

City of Brunswick
Attn: Garrow Alberson
City Engineer
601 Gloucester Street
Brunswick, GA 31520

Re: Letter of Permission (LOP) Culvert Replacement, Howard Coffin Park, Tidal Ditch, Glynn County, Georgia (GPS: 31.15071°N/-81.47829°W)

Dear Mr. Alberson:

This Letter of Permission (LOP) is in response to your request to replace an existing concrete culvert under a maintenance access road within Howard Coffin Park in Brunswick, Georgia. Approximately 150 linear feet of riprap will be installed west and east of the culvert, as authorized by the Department on April 13, 2017, after the culvert has been replaced.

The project involves replacing the existing 48in. concrete culvert with a HP Storm pipe (polypropylene pipe) within the same location, length, diameter, and invert elevation that the concrete culvert currently exists. According to the request, a hydraulic excavator will be located upland of the Coastal Marshland Protection Act (CMPA) jurisdictional area on the existing roadway. Crew will access the CMPA jurisdictional area on foot to assist in the removal and placement of the new culvert using hand tools. During construction, hay bales will be placed across the ditch on both sides of the work area, upstream and downstream. Silt fencing will be installed at the toe of the slopes near the area of the culvert replacement to help prevent erosion. The culvert replacement will occur during an extreme low tide. The project will begin no sooner than 15 days from the date of this letter and must be completed within six (6) months from the date of this letter.

The Department authorizes the culvert replacement as depicted in the attached description and drawings provided all Best Management Practices (BMPs) are used. No deepening or dredging can occur during the project. No unauthorized equipment, materials or debris may be placed, disposed of, or stored in jurisdictional areas. All material removed must be disposed of at an appropriate upland site.

This LOP does not relieve you from obtaining any other federal, state, or local permits. If you have any further questions or concerns in regards to this or any other projects, please feel free to contact Skye Stockel at (912) 262-3127.

Sincerely,

Jill Andrews
Chief, Coastal Management Section

Enclosures: Project Description and Drawings
File: LOP20160085

Stockel, Skye

From: Garrow Alberson <galberson@cityofbrunswick-ga.gov>
Sent: Thursday, August 18, 2016 5:01 PM
To: Stockel, Skye
Subject: RE: Pipe replacement at Howard Coffin park
Attachments: RE: Bank stabilization permits; HCP Staging plan.pdf

Skye,

In response to your e-mail regarding the pipe replacement project:

- We will use a John Deere hydraulic excavator to complete the project. The equipment will be located on the upland portion of the existing roadway between the jurisdictional lines on each bank as indicated on the attached sketch. There will be no need for equipment to be staged within CMPA jurisdiction. Employees will need to go inside the CMPA jurisdiction on foot with hand tools (shovels, etc) to assist in removal and placement of the pipe.
- I have spoken with Shannon Winsness of GA EPD regarding the buffer requirements. He said that there will be no buffer requirements as this is considered maintenance of an existing roadway drainage structure (email attached). Since the city is not a LIA, issues such as this are typically handled by EPD. I will be glad to talk with Paul Andrews if necessary, but I am not sure of his involvement in this project.
- The dirt removed during the project will be placed/staged behind the excavator as it is working and upland of the jurisdictional lines as indicated on the attached sketch.

I hope this is the information you need for this project. I will send the additional information for the bank stabilization application in a separate email.

Let me know if you need anything else,

Garrow Alberson, P.E.
City Engineer

(912) 267-5540 (office)
(912) 270-8826 (cell)

www.brunswickga.org

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From: Stockel, Skye [mailto:Skye.Stockel@dnr.ga.gov]
Sent: Wednesday, August 10, 2016 4:15 PM
To: Garrow Alberson
Subject: RE: Pipe replacement at Howard Coffin park

Good Afternoon Garrow,

My apologies on the delay in responding to your email below it was auto filtered into the wrong file instead of my inbox. I did however receive your email this morning inquiring on the status. There are a few things that are needed to move forward with both the Bank Stabilization application and the pipe replacement request. Work cannot begin on either project until authorization has been obtained.

For the bank stabilization request please provide the following;

- Deed and Plat
- Aerial Drawing (I've received the profile)
- Will any grading of the slope be needed or will the rip rap be placed on the existing shoreline?

For the culvert replacement request please provide the following;

- What equipment will be used to complete the work? Will any of it need to be staged within CMPA jurisdiction?
- Have you coordinated with Paul Andrews on buffer requirements?
- Where will the dirt removed be staged during construction?

Please give me a call if you have any questions.

Sincerely,

Skye Stockel

Permit Coordinator

Marsh and Shore Management Program

Coastal Resources Division GA DNR

912.262.3127

From: Garrow Alberson [<mailto:galberson@cityofbrunswick-ga.gov>]

Sent: Friday, July 01, 2016 4:12 PM

To: Stockel, Skye

Subject: Pipe replacement at Howard Coffin park

Skye,

We have had previous discussions about the existing 48" concrete pipe under the maintenance access roadway behind the admin building at Howard Coffin Park (aerial photo attached). The stream bank has eroded around the east end of the pipe, causing the end section of pipe to sag. This sag has, in turn, caused the pipe joint to open allowing soil to enter the waterway through the joint. This leaves a hole in the roadway above the pipe joint. We would like to replace the pipe with a new 48" pipe so that the erosion does not further damage the roadway.

I am attaching a survey which was completed at the time the marsh jurisdictional line was flagged. The survey shows the JD line as flagged, as well as the existing pipe location and elevation. The existing pipe is approximately 24 feet long. The invert elevations are 0.25' on the west end, and -0.48' on the east end. (The pipe was likely originally installed at the same elevation on each end, but the erosion has allowed the east end to settle to the elevation indicated on the survey.) The roadway width is slightly less than 10' at its narrowest point. The scope of this replacement project would include replacement of the pipe at the same location, length, and elevation as the existing conditions. Rip rap armor stone will be installed along the stream banks to prevent further erosion (a separate bank stabilization application has been submitted). The roadway would then be repaired and replaced within its current location, upland of the JD line as flagged.

The City of Brunswick has also submitted a bank stabilization application to place rip rap stone along the slopes of the tidal canal to help prevent further erosion of the stream banks. Assuming the bank stabilization is approved, the rip rap

stone would be placed on the east side of the pipe replacement immediately following the pipe replacement. On the west side, the stone would be placed at the disturbed areas nearest the pipe immediately following the pipe replacement. The remainder of the rip rap stone would be placed following JWSC's relocation of an existing 18" steel pipe casing located to the west of the drainage pipe.

This project would have to be completed during the time of extreme low tide. In order to prevent transport of sediment during the replacement, the crews would place hay bales across the stream upstream and downstream of the pipe as indicated on the attached sketch. The hay bales would be removed as soon as the pipe replacement is completed, allowing the stream to resume its natural flow. Silt fencing would also be installed at the toe of the slopes, near the area of the pipe replacement to help prevent erosion and sediment transport from the slopes. Additionally, the installation of the rip rap armor stone with filter fabric underlayment will immediately follow the pipe replacement to help prevent erosion of the disturbed slopes.

There is an existing 18" steel pipe casing which crosses the stream in a north-south direction to the west of the existing 48" pipe. The steel pipe is a utility pipe which belongs to the Brunswick-Glynn Joint Water and Sewer Commission (JWSC). It is our understanding that the JWSC has plans to relocate the 18" steel pipe casing below the stream. However, the city is uncertain of the anticipated time of the relocation or of JWSC's status concerning permit application for the project. The replacement of the 48" drainage pipe will not be affected by the existing 18" steel pipe.

The anticipated date of the pipe replacement project is dependent on the status of the bank stabilization application. Since the rip rap will be placed immediately following the pipe replacement, we will not begin the project until the bank stabilization application is approved. Once the application is approved, we can tentatively schedule the pipe replacement project. It is anticipated that the project will take no longer than two (2) days, including placement of rip rap. The actual removal and replacement of the drainage pipe should take no longer than about three hours and should easily be accomplished in the window of low tide. The low tides on August 1 and 2 are projected to be lower than average, which is favorable for the replacement project. If we are not able to complete it during this time, the next favorable tides occur on August 22 – 23. As soon as the bank stabilization application is approved, I will contact you and provide a more definite date for commencement of the project.

Let me know if you have questions or need additional information,

Garrow Alberson, P.E.
City Engineer

(912) 267-5540 (office)
(912) 270-8826 (cell)

www.brunswickga.org

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Stockel, Skye

From: Garrow Alberson <galberson@cityofbrunswick-ga.gov>
Sent: Wednesday, April 13, 2016 9:21 AM
To: Stockel, Skye
Subject: Pipe replacement at Howard Coffin Park
Attachments: 15-5052 Wetland-Topo Signed.pdf; Howard Coffin Culvert JD letter and survey 2.19.16.pdf; HCP pipe repair - aerial.pdf

Skye,

There is an existing maintenance access road which crosses the tidal canal in Howard Coffin Park, and there is an existing 48" concrete drainage pipe under the roadway. The area is indicated on the attached aerial photo. Also attached is a stamped survey indicating the jurisdictional line at the top of bank in this area as flagged in December 2015 and a letter of approval of the survey from your office dated February 19, 2016. The soil around the east end of the pipe has eroded and the pipe joints have separated causing erosion of the roadway. The City of Brunswick would like to replace the pipe to avoid further erosion of the roadway. We will plan to replace the pipe at the same location, length, diameter and invert elevations as it currently exists. The only difference may be that we use HP Storm pipe (polypropylene pipe) instead of concrete for the replacement. The decision will be made based on cost of concrete pipe vs. HP pipe at the time of installation. Following the replacement of the pipe, we will repair the roadway within the existing JD limits as shown on the attached survey. After the repairs of the pipe and roadway are completed, we will plan to install rip rap along the bank to prevent this erosion problem from reoccurring. I will submit a Bank Stabilization application to your office regarding the placement of the rip rap in this area. We will try to coordinate this work following the approval of the Bank Stabilization application so that the pipe and roadway repair and placement of rip rap are completed at the same time.

Please discuss this project within your office and let me know if it will be OK for us to move forward with this pipe replacement. Let me know if you need additional information, or I will be glad to meet anyone on site to discuss the project if needed. I will follow up with a bank stabilization application for the area.

Thanks for your help on this project and we look forward to hearing from you,

Garrow Alberson, P.E.
City Engineer

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Stockel, Skye

From: Winsness, Shannon <Shannon.Winsness@dnr.ga.gov>
Sent: Tuesday, May 03, 2016 8:05 AM
To: Garrow Alberson
Subject: RE: Bank stabilization permits

Both of these sites would be maintenance to a roadway drainage structure and therefore there will be no buffer requirements.

From: Garrow Alberson [<mailto:galberson@cityofbrunswick-ga.gov>]
Sent: Monday, May 02, 2016 4:44 PM
To: Winsness, Shannon
Subject: Bank stabilization permits

Shannon,

I meant to mention this to you when we talked last week at the storm water meeting. This is a situation that would be ideal for the blanket buffer variance that we discussed. But until I get that submitted, we have a couple of areas where we need to place some rip rap for bank stabilization. Can you take a look and let me know if the areas will require buffer variances?

The first area is in Howard Coffin Park. There is a maintenance access road which crosses the tidal canal behind the gym in HCP. We need to replace the pipe and repair the roadway. We will also place rip rap on both sides of the maintenance road to prevent further bank erosion.

The second area is along T Street, west of Hwy 341 adjacent to the Academy Creek Wastewater treatment plant. The stream bank is eroding in this area, and is getting close to the roadway of T Street.

I am attaching aerial photos of both sites, and I can meet you on site if necessary. Let me know if it looks like a buffer variance will be required for these sites. If so, I may go ahead with the blanket application, or submit these individually, whichever will be quicker.

Thanks for your help,

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City Engineer

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Howard Coffin Park

Proposed pipe and roadway repair

Proposed Pipe Repair

Glynn Ave

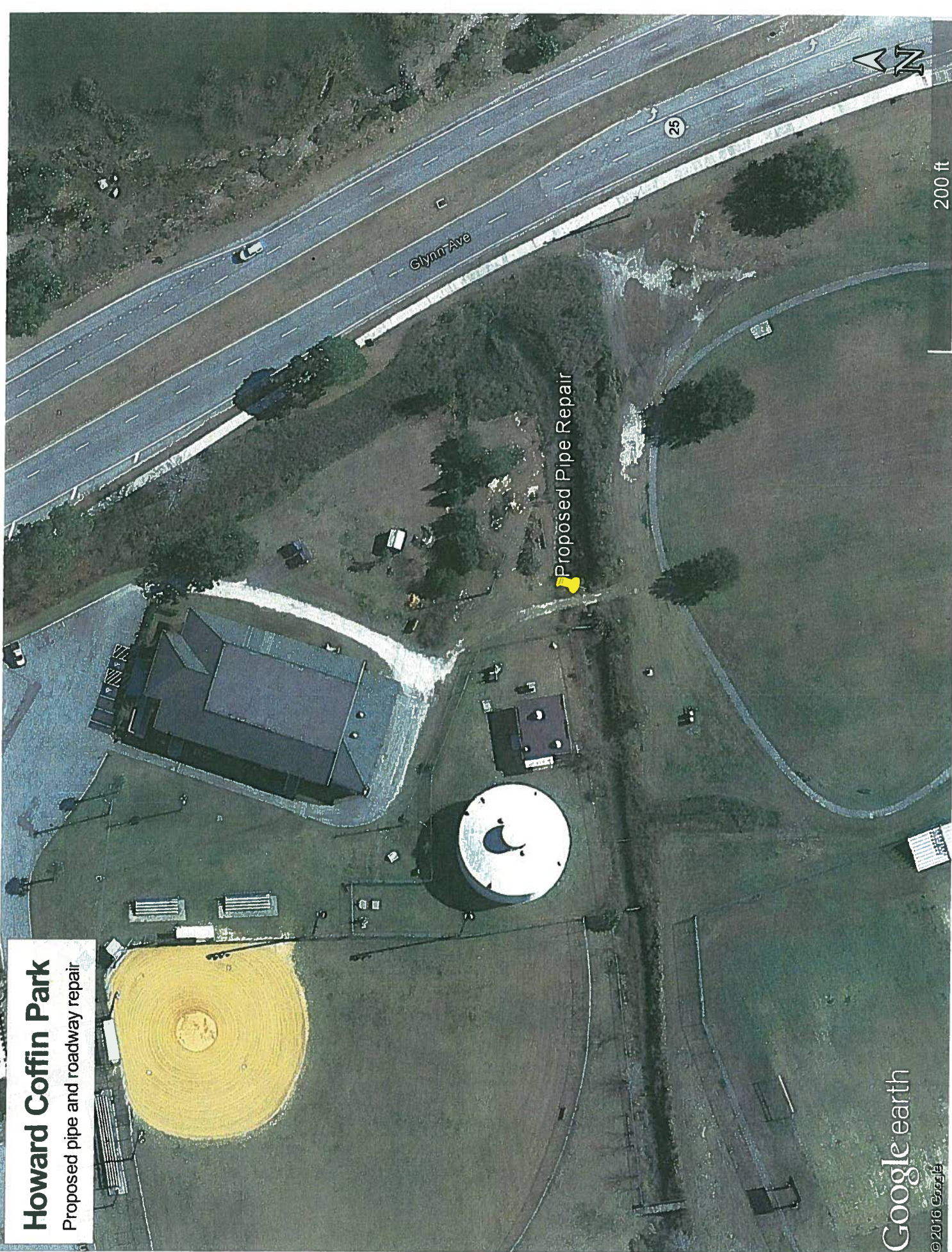
25



200 ft

Google earth

© 2016 Google

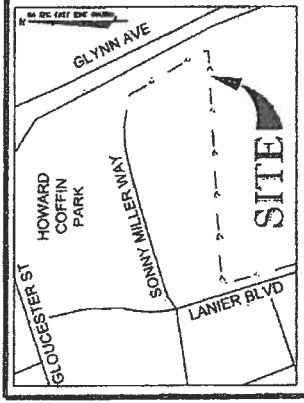
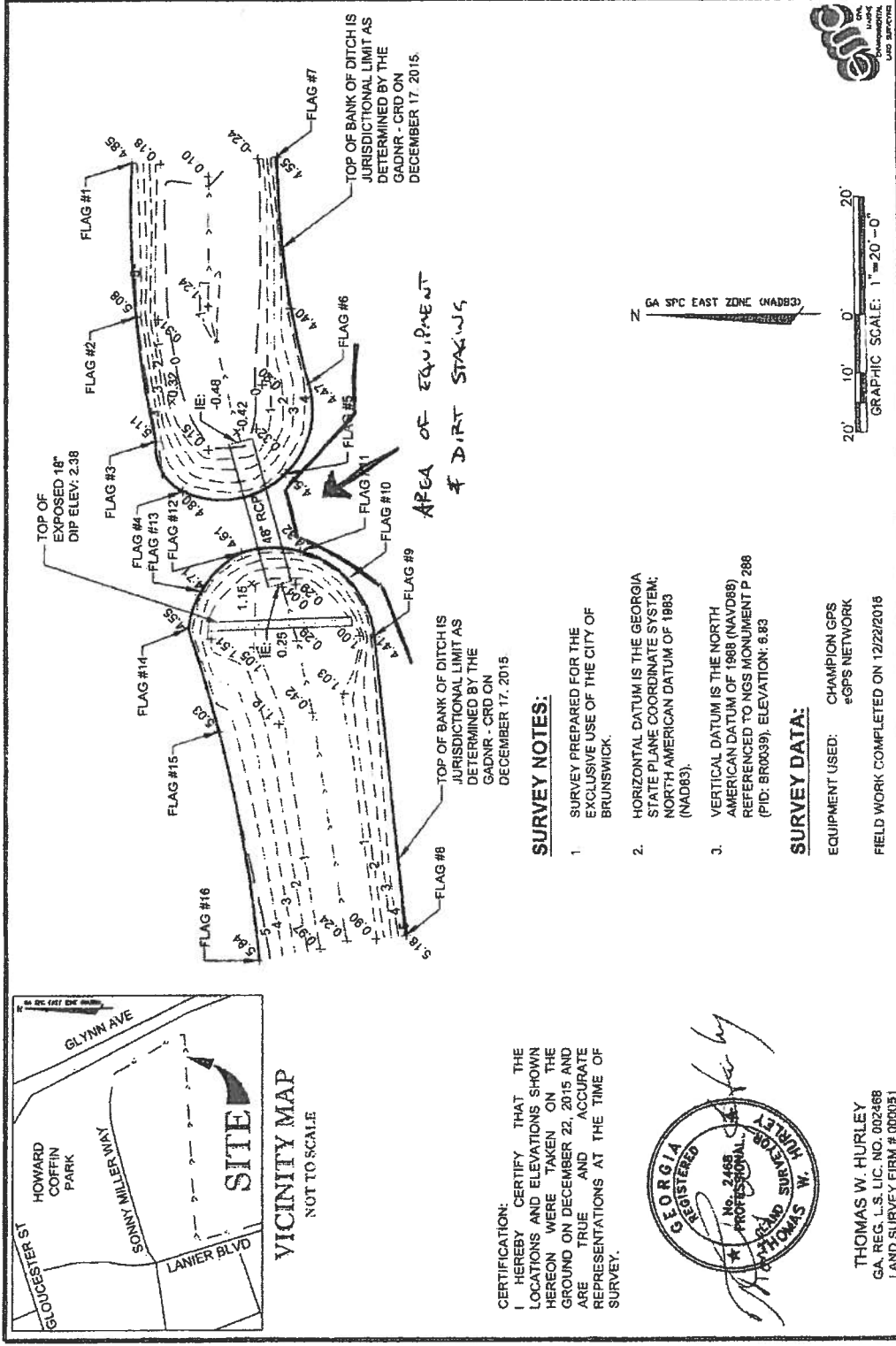


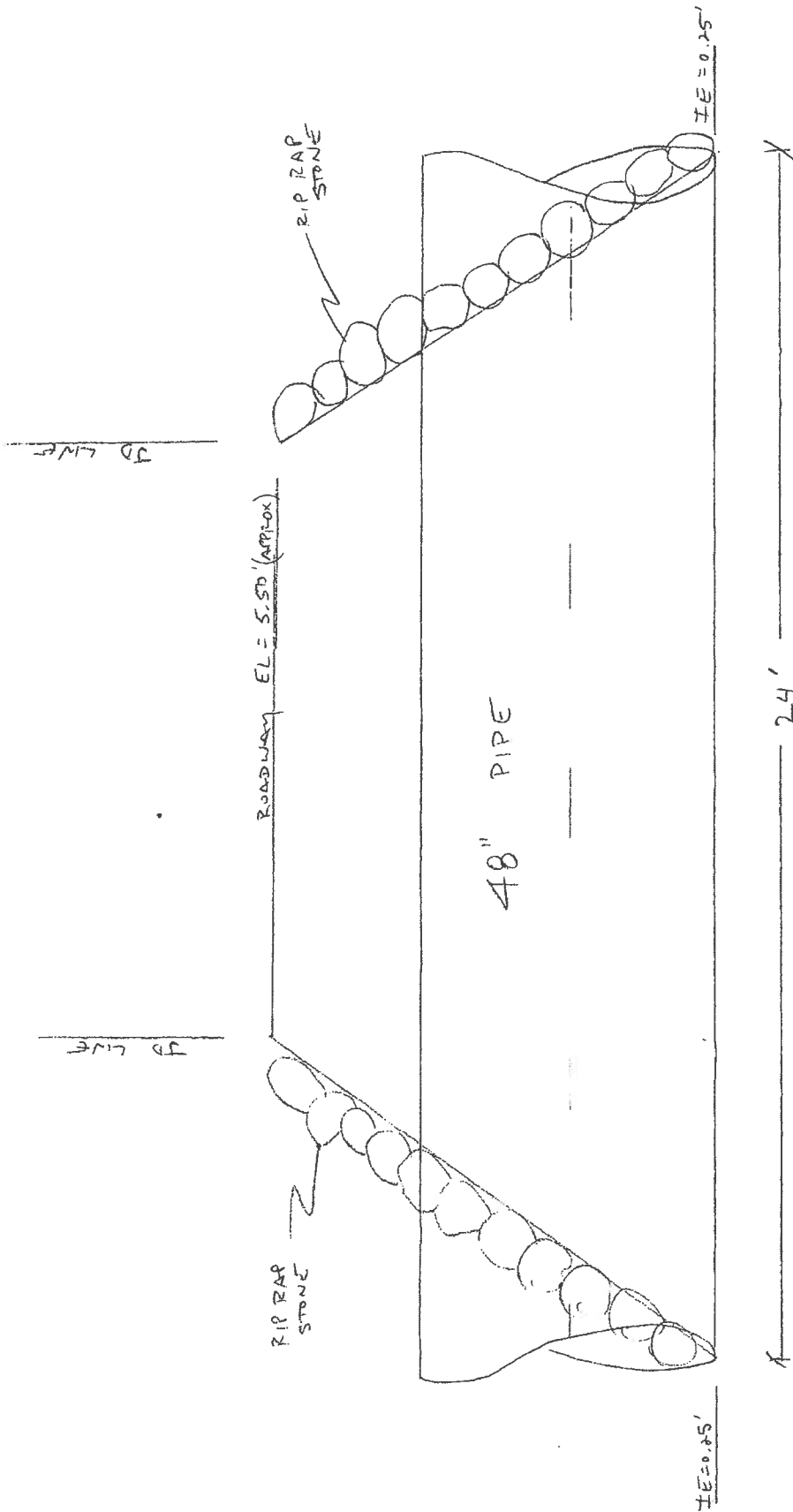
PROJECT NO.: 15-5052
 DRAWN BY: CMT
 DESIGNED BY: N/A
 SURVEYED BY: RFG
 SURVEY DATE: 12/22/2015
 CHECKED BY: TWH
 SCALE: 1" = 30'
 DATE: 01/25/2016

**PARTIAL TOPOGRAPHIC SURVEY
 AND DNR JURISDICTIONAL LIMITS
 HOWARD COFFIN PARK**
 BRUNSWICK, GLYNN COUNTY, GEORGIA
 Prepared for:
 CITY OF BRUNSWICK

**EMC ENGINEERING
 SERVICES, INC.**
 10 CHATHAM CENTER SOUTH
 SUITE 100
 SAVANNAH, GEORGIA 31405
 BRUNSWICK BRANCH
 504 GLOUCESTER ST
 BRUNSWICK, GEORGIA 31520
 PH: (912) 844-3239
 brunswick@emc-eng.com

ALBANY - ATLANTA - AUGUSTA
 BRUNSWICK - COLUMBUS
 SAVANNAH - TEBBORO
 AND VALDOSTA





SECTION AT CENTERLINE OF PIPE
(N.T.S.)

GA DNR

JUL 01 2016

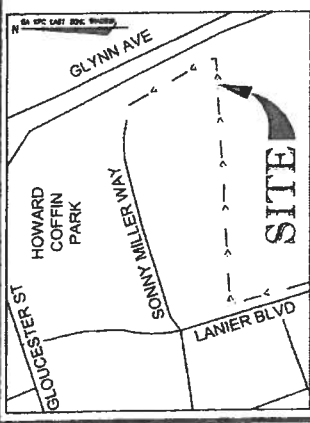
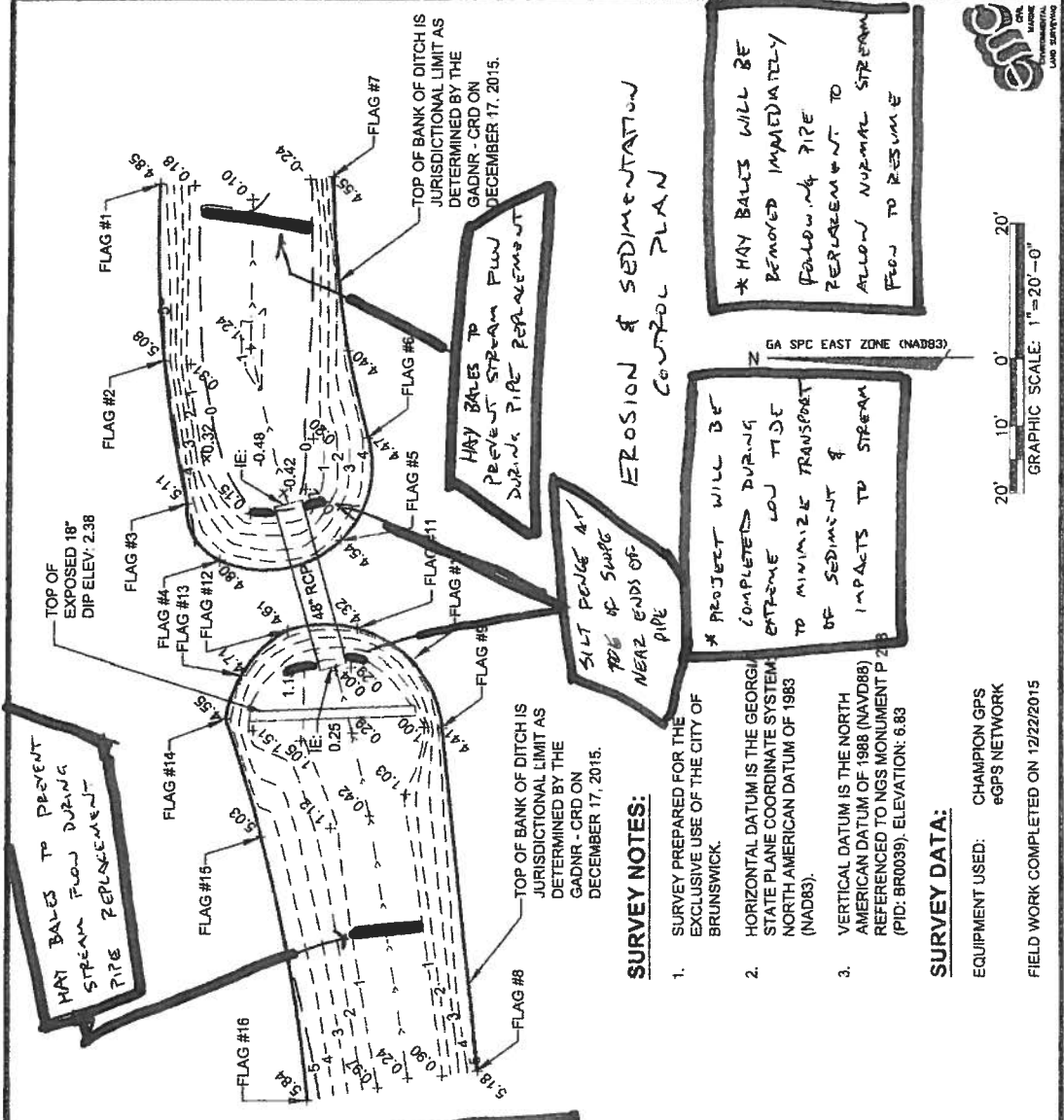
Marsh & Shore Mgt. Program

PROJECT NO. 15-5052
 DRAWN BY: CMY
 DESIGNED BY: N/A
 SURVEYED BY: RFG
 SURVEY DATE: 12/22/2015
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 SCALE: 1" = 30'
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**PARTIAL TOPOGRAPHIC SURVEY
 AND DNR JURISDICTIONAL LIMITS
 HOWARD COFFIN PARK
 BRUNSWICK, GLYNN COUNTY, GEORGIA**
 Prepared for:
 CITY OF BRUNSWICK

EMC ENGINEERING SERVICES, INC.
 10 CHATHAM CENTER SOUTH
 SUITE 100
 SAVANNAH, GEORGIA 31405
 -BRUNSWICK BRANCH-
 504 GLOUCESTER STREET
 BRUNSWICK, GEORGIA 31520
 PH: (912) 644-3259
 brunswick@emc-eng.com

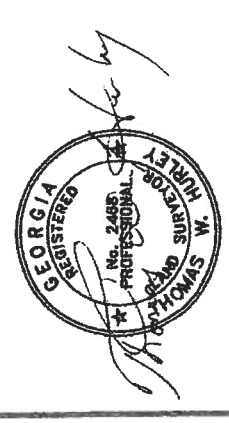
ALBANY - ATLANTA - AUGUSTA
 BRUNSWICK - COLUMBUS
 SAVANNAH - STATESBORO
 AND VALDOSTA



VICINITY MAP
 NOT TO SCALE

* INSTALLATION OF FABRIC UNDERLAYMENT & PIPE RAP ARMOR STONE WILL OCCUR IMMEDIATELY FOLLOWING PIPE REPLACEMENT TO MINIMIZE EROSION OF DISTURBED SLOPES

CERTIFICATION:
 I HEREBY CERTIFY THAT THE LOCATIONS AND ELEVATIONS SHOWN HEREON WERE TAKEN ON THE GROUND ON DECEMBER 22, 2015 AND ARE TRUE AND ACCURATE REPRESENTATIONS AT THE TIME OF SURVEY.



THOMAS W. HURLEY
 GA. REG. L.S. LIC. NO. 002488
 LAND SURVEY FIRM # 000051

SURVEY NOTES:

1. SURVEY PREPARED FOR THE EXCLUSIVE USE OF THE CITY OF BRUNSWICK.
2. HORIZONTAL DATUM IS THE GEORGIA STATE PLANE COORDINATE SYSTEM NORTH AMERICAN DATUM OF 1983 (NAD83).
3. VERTICAL DATUM IS THE NORTH AMERICAN DATUM OF 1988 (NAVD88) REFERENCED TO NGS MONUMENT P 273 (PID: BR0039). ELEVATION: 6.83

SURVEY DATA:

EQUIPMENT USED: CHAMPTON GPS
 eGPS NETWORK
 FIELD WORK COMPLETED ON 12/22/2015

EROSION & SEDIMENTATION CONTROL PLAN

* PROJECT WILL BE COMPLETED DURING EXTREME LOW TIDE TO MINIMIZE TRANSPORT OF SEDIMENT & IMPACTS TO STREAM

* HAY BALES WILL BE REMOVED IMMEDIATELY FOLLOWING PIPE REPLACEMENT TO ALLOW NORMAL STREAM FLOW TO RESUME



GA DNR

JUL 01 2016

Marsh & Shore Mgt. Program