



# CITY OF PORT WENTWORTH

## PLANNING COMMISSION

DECEMBER 11, 2017

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**Council Meeting Room**

**Regular Meeting**

**6:30 PM**

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**305 SOUTH COASTAL HIGHWAY  
PORT WENTWORTH, GA 31407**

**1. CALL MEETING TO ORDER**

**2. PRAYER AND PLEDGE OF ALLEGIANCE**

**3. ROLL CALL - SECRETARY**

**4. ADOPTION OF MINUTES**

A. Planning Commission - Regular Meeting - Oct 9, 2017 6:30 PM

**5. ZONING MAP AMENDMENTS (REZONING)**

**6. ZONING TEXT AMENDMENTS (ORDINANCES)**

**7. SITE PLAN/SUBDIVISION APPROVAL**

A. Site Plan Review Application submitted by Sean Register, on behalf of Port Fuel Center, LLC., for PIN #'s 7-0018-02-001, 003, 004, 005, 006, 007, 008, 009, 009A, 010, 011, 012, 013, 014 (Grange Rd & Highway 21) for a General Development Site Plan to allow a Truck Stop / Gas Station in a P-C-3 (Planned General Business) Zoning District.

- Public Hearing
- Action

B. Alcoholic Beverage License Application submitted by Anne W. Groves for a Package Shop License for Randall's Beverage Center, LLC., (8210 Highway 21) located in a P-C-3 (Planned General Business) Zoning District.

- Public Hearing
- Action

C. Site Plan Review Application submitted by Maupin Engineering, on behalf of Darel Sapp for PIN #'s: 7-0039B-01-002 , 003 (184 Godley Road) for a Specific Development Site Plan to allow a Wrecker Service in a P-I-1 (Planned Industrial) Zoning District

- Public Hearing
- Action

D. Site Plan Review Application submitted by Maupin Engineering, on behalf of Yash Desai for PIN #: 7-0906-04-029 (2 Magnolia Boulevard) for a Specific Development Site Plan to allow a Gas Station / Convenience Store with a Retail Space in a MPO (Master Plan Overlay) Zoning District

- Public Hearing
- Action

**8. ADJOURNMENT**



# CITY OF PORT WENTWORTH

## PLANNING COMMISSION

OCTOBER 9, 2017

Council Meeting Room

Regular Meeting

6:30 PM

305 SOUTH COASTAL HIGHWAY  
PORT WENTWORTH, GA 31407

### 1. CALL MEETING TO ORDER

Chairman Linda Smith called the meeting to order.

### 2. PRAYER AND PLEDGE OF ALLEGIANCE

Chairman Linda Smith led in Prayer and the Pledge of Allegiance

### 3. ROLL CALL - SECRETARY

Attendee Name	Title	Status	Arrived
Linda Smith	Chairperson	Present	
Sylvia Hinely	Planning Commissioner	Absent	
Joseph Dobry	Planning Commissioner	Present	
Jerry Bogus	Planning Commissioner	Present	
Larry Longo	Planning Commissioner	Present	
Rufus Bright	Planning Commissioner	Present	
Rosetta Franklin	Planning Commissioner	Present	
Donna Blalock	Planning Commissioner	Present	
Brian Harvey	Director of Development Services	Present	
Melanie Ellis	Administrative Secretary	Present	

### 4. ADOPTION OF MINUTES

A. Planning Commission - Regular Meeting - Sep 18, 2017 6:30 PM

<b>RESULT:</b>	<b>ACCEPTED [UNANIMOUS]</b>
<b>MOVER:</b>	Joseph Dobry, Planning Commissioner
<b>SECONDER:</b>	Donna Blalock, Planning Commissioner
<b>AYES:</b>	Dobry, Bogus, Longo, Bright, Franklin, Blalock
<b>ABSENT:</b>	Hinely

### 5. ZONING MAP AMENDMENTS (REZONING)

### 6. ZONING TEXT AMENDMENTS (ORDINANCES)

### 7. SITE PLAN/SUBDIVISION APPROVAL

A. Site Plan Review Application submitted by Stravinski Development Group, LLC., on behalf of L-A Savannah-Crossgate C/O Lubert-Adler Partners LP for PIN #: 7-0033-01-003 (the vicinity of Highway 21 and Crossgate Road) for a Specific Development Site Plan to allow a Distribution Warehouse in a P-I-1 (Planned Industrial) Zoning District

Mr. Harvey informed the Commission that the application was complete. Greg Potter was present on behalf of the applicant to answer any questions. Mr. Potter detailed the project again and stated that there have been no substantive changes since the General

Minutes Acceptance: Minutes of Oct 9, 2017 6:30 PM (ADOPTION OF MINUTES)

Development Plan approval. Larry Longo asked about the engineering review letter, and Mr. Harvey advised that the project was still under review. After several minutes of discussion, Joe Dobry made the motion to approve the application with the condition that vegetation be added to the visual buffer between Crossgate Road and the construction site. Rosetta Franklin seconded the motion. Larry Longo, Rufus Bright, and Donna Blalock abstained from voting. Joe Dobry and Rosetta Franklin voted to approve the application. Jerry Bogus voted to deny the application.

**RESULT:** APPROVED AS AMENDED [2 TO 1]  
**MOVER:** Joseph Dobry, Planning Commissioner  
**SECONDER:** Rosetta Franklin, Planning Commissioner  
**AYES:** Dobry, Franklin  
**NAYS:** Bogus  
**ABSTAIN:** Longo, Bright, Blalock  
**ABSENT:** Hinely

- B. Site Plan Review Application submitted by Greg Coleman, Coleman Company, Inc., on behalf of Bald Eagle Partners for PIN #: 7-0906B-14-003 (Birch Circle) for a General Development Plan to allow a Single Family Residential Development in a MPO (Master Plan Overlay) Zoning District

Mr. Harvey informed the Commission that the application was complete. Murray Marshall and Greg Coleman were both present on behalf of the applicant to answer any questions. The Commissioners asked numerous questions about the proposed development including: parking, buffers, street lights, and the possibility of moving the lots down to create a larger buffer between existing homes on the Parkside Blvd side of the development. Mr. Copeland, 3 Parkside Dr, asked questions regarding the Palm Trees near the entrance of the Parkside Subdivision. After several minutes of discussion, Jerry Bogus made a motion to approve the application. Larry Longo seconded the motion to approve. The vote was unanimous.

**RESULT:** APPROVED [UNANIMOUS]  
**MOVER:** Jerry Bogus, Planning Commissioner  
**SECONDER:** Larry Longo, Planning Commissioner  
**AYES:** Dobry, Bogus, Longo, Bright, Franklin, Blalock  
**ABSENT:** Hinely

**8. ADJOURNMENT**

There being no further business to discuss, Commissioner Bogus made a motion to adjourn the meeting. Commissioner Dobry seconded the motion to adjourn. The vote was unanimous.

\_\_\_\_\_  
Linda Smith, Chairman

The foregoing minutes are true and correct and approved by me on this \_\_\_\_\_ day of \_\_\_\_\_, 2017.

Minutes Acceptance: Minutes of Oct 9, 2017 6:30 PM (ADOPTION OF MINUTES)

\_\_\_\_\_  
Larry Longo, Secretary

Minutes Acceptance: Minutes of Oct 9, 2017 6:30 PM (ADOPTION OF MINUTES)





**Planning Commission**  
305 South Coastal Highway  
Port Wentworth, GA 31407

Meeting: 12/11/17 06:30 PM  
Department: Public Services  
Category: Planning/Zoning Item  
Prepared By: Melanie Ellis  
Department Head: Brian Harvey

**SCHEDULED**

**AGENDA ITEM (ID # 1764)**

DOC ID: 1764

**Site Plan Review Application submitted by Sean Register, on behalf of Port Fuel Center, LLC., for PIN #'s 7-0018-02-001, 003, 004, 005, 006, 007, 008, 009, 009A, 010, 011, 012, 013, 014 (Grange Rd & Highway 21) for a General Development Site Plan to allow a Truck Stop / Gas Station in a P-C-3 (Planned General Business) Zoning District.**

**Issue/Item:** Site Plan Review Application submitted by Sean Register, on behalf of Port Fuel Center, LLC., for PIN #'s 7-0018-02-001, 003, 004, 005, 006, 007, 008, 009, 009A, 010, 011, 012, 013, 014 (Grange Rd & Highway 21) for a General Development Site Plan to allow a Truck Stop / Gas Station in a P-C-3 (Planned General Business) Zoning District.

**Background:** The applicant has combined several family-owned properties with other properties that he has purchased or will purchase for the purpose of this development. Some of the subject properties were originally residential; however, the properties have been rezoned commercial for several years.

**Facts and Findings:** The applicant intends to construct a Truck Stop that will include the following: convenience store, retail space, fast food space, 10 (ten) standard gas pumps, 8 (eight) semi-truck fuel pumps, 2 (two) CNG Pumps, 3 (three) ADA parking spaces, 55 (fifty-five) standard parking spaces, 13 (thirteen) 12' X 40' truck parking spaces, and 43 (forty-three) 12' x 75' truck parking spaces. The development will have 2 (two) entrances, one entrance on Highway 21 and one entrance on Grange Road, and a 24' wide access road along the rear of the development. The applicant proposes pole mounted security lights around the perimeter of the development. The site will include a storm water detention pond at the rear of the development.

**Funding: N/A**

**Recommendation:** The Planning Commission will hear this application on Monday, December 11, 2017 at 6:30PM.

**ATTACHMENTS:**

- Port Fuel Center Site Plan Application December 2017 (PDF)
- Port Fuel Center Site Plan December 2017 (PDF)

140975

City of Port Wentworth  
**Site Plan Review Application**

Site Plan Application is required for all new construction in a "P" or "MPO" zone as defined in the Zoning Ordinance of the City of Port Wentworth.

Name of Site Plan: Port Fuel Center

Site Plan Address: Grange Rd & Highway 21

PIN #: \_\_\_\_\_ Zoning: P-C-3

Type of Construction: new

Estimated Cost of Construction: \$ 5 million

Applicant's Name: Sean Register

Address: P.O. Box 1807  
Richmond Hill, Ga. 31324

Phone #: 912 663 3047 Fax #: 912 756 5903

Owner's Name (If Different from Applicant): Port Fuel Center, LLC

Address: P.O. Box 1807  
Richmond Hill, Ga. 31324

Phone #: 912 663-3047 Fax #: 912 756 5903

I hereby acknowledge that the above information is true and correct.

Sean D. Register  
Applicant's Signature

11/9/17  
Date

Owner's Signature (If Different from Applicant)

Date

- Please submit the following with completed application:**
- 1. Name, address & PIN # for all adjacent property owners.**
  - 2. Fifteen (15) copies in 11"x17" or larger of your site plan & one 8.5"x11".**

Attachment: Port Fuel Center Site Plan Application December 2017 (1764 : Site Plan Review Application Port Fuel Center General Site Plan

Properties being purchased

Parcel No.	Owner	Property address	PIN no.
10	Monica Stokes	5706 Augusta Rd. Port Wentworth	7-0018-02-010
8	Robert Agbede	5716 Augusta Rd. Port Wentworth	7-0018-02-008
7	Atlanta Gas Light	Fries Road	7-0018-02-007
6	Donald Wilson	1 Fries Road Port Wentworth	7-0018-02-006
5	Mildred Tipton L/T	3 Fries Road Port Wentworth	7-0018-02-005
4	David Cole	5 Fries Road Port Wentworth	7-0018-02-004
3	Mary Ellen Landing	7 Fries Road Port Wentworth	7-0018-02-003
9	Henry Chafin	Myrtle Drive, Port Wentworth	7-0018-02-009A
1a	Larry Collins	108 Danny Road, Port Wentworth	7-0018-02=001

Properties (already owned – equity)

9	Sean Register as Trustee	290 Augusta Road, Port Wentworth	7-0018-02-009
12	“ “ “	500 Grange Road, Port Wentworth	7-0018-02-012
13	“ “ “	502 Grange Road, Port Wentworth	7-0018-02-013
14	“ “ “	102 Myrtle Drive, Port Wentworth	7-0018-02-014
11	Sean Register	905 Grange Road, Port Wentworth	7-0018-02-011





64-175-612 1030

**SHIRLEY FRIES REGISTER IRREVOCABLE TRUST**  
 PO BOX 1807  
 RICHMOND HILL, GA 31324

DATE 11/9/17

PAY TO THE ORDER OF City of Port Wentworth \$ 886.00

eight hundred eighty-six and 00/100 DOLLARS

**Ameris Bank**

MEMO \_\_\_\_\_

Alan D. Register

⑆06⑆20⑆754⑆ 2048668787⑆⑈0⑆1030

END STUB ONLY SAFETY PAPER

Security Fee Included. Details on B.

Attachment: Port Fuel Center Site Plan Application December 2017 (1764 : Site Plan Review Application Port Fuel Center General Site Plan



# City of Port Wentworth

# INVOICE #134

305 South Coastal Highway, Port Wentworth, Georgia 31407  
Phone 912-966-7427 Fax 912-966-3699 mellis@cityofportwentworth.com

Customer

Sean Register  
P.O. Box 1807  
Richmond Hill, GA 31324

Invoice Date 11/13/2017  
Sales Person Melanie Ellis  
Permit # 140975

Phone 912-663-3047  
Fax 912-756-5903

**PAID**  
NOV 13 2017

Job	Payment Due	Payment Terms
General Site Plan-Port Fuel Center	11/13/2017	Due on Receipt

Product	Quantity	Unit Price	Line Total
ADMINISTRATIVE FEE	1	\$50.000	\$50.00
SITE PLAN/REVISION TO PUD (WITH LAND DISTURBANCE)	1	\$836.000	\$836.00

Products Total	\$886.00
<b>Invoice Total</b>	<b>\$886.00</b>

## Thank you for your business

City of Port Wentworth 305 South Coastal Highway, Port Wentworth, Georgia 31407  
Phone 912-966-7427 Fax 912-966-3699 mellis@cityofportwentworth.com

Attachment: Port Fuel Center Site Plan Application December 2017 (1764 : Site Plan Review Application Port Fuel Center General Site Plan



TRUCK STOP  
SITE PLAN

PREPARED FOR:



PREPARED BY:  
PITTMAN ENGINEERING CO,  
LLC

SEPTEMBER 29, 2017  
1"=50'



Attachment: Port Fuel Center Site Plan December 2017 (1764 : Site Plan Review Application Port Fuel Center General Site Plan DECEMBER 2017)





**Planning Commission**  
305 South Coastal Highway  
Port Wentworth, GA 31407

Meeting: 12/11/17 06:30 PM  
Department: Public Services  
Category: Planning/Zoning Item  
Prepared By: Melanie Ellis  
Department Head: Brian Harvey

**SCHEDULED**

**AGENDA ITEM (ID # 1763)**

DOC ID: 1763

## **Alcoholic Beverage License Application submitted by Anne W. Groves for a Package Shop License for Randall's Beverage Center, LLC., (8210 Highway 21) located in a P-C-3 (Planned General Business) Zoning District.**

**Issue/Item:** Alcoholic Beverage License Application submitted by Anne W. Groves for a Package Shop License for Randall's Beverage Center, LLC., (8210 Highway 21) located in a P-C-3 (Planned General Business) Zoning District.

**Background:** The application is due to a change in ownership. The previous owner is deceased.

**Facts and Findings:** The applicant, Anne W. Groves, has properly completed and filed the City application and paid all applicable fees. Mrs. Groves has listed three (3) residents of the City as references, and she has passed the criminal background check conducted by the Port Wentworth Police Department.

**Funding: N/A**

**Recommendation: The Planning Commission will hear this application on December 11, 2017 at 6:30 PM.**

**ATTACHMENTS:**

- Alcoholic Beverage License-8210 Hwy 21- Package Shop DEC 2017 (PDF)



License Type(s):

- Package Shop \$2165.80
- Beer/Wine \$720.40
- Pouring-Beer/Wine/Liquor \$2575.00
- Wine \$265.00
- Sunday Alcohol Sales \$450.00
- Admin Fee(All Licenses) \$100

Total: 2,265.80

City of Port Wentworth

APPLICATION FOR ALCOHOLIC BEVERAGE LICENSE

DATE: Nov. 9

YEAR OF: 2017

A) GENERAL INFORMATION:

Randall's Beverage Center LLC liquor, beer, win  
 Business Name (as registered with the Clerk of the Superior Court in Chatham County) Type of Business  
8210 Hwy 21 Port Wentworth, GA. 912-964-4730  
 Business Location Business Phone #

Distance from nearest school or church (please indicate distance in miles or feet) Zoning District

Anne W. Groves owner [REDACTED]  
 Mailing Address Name of Applicant Title Birth Date  
483 Butler Avenue Savannah, GA 31406  
 Applicant's Address

Annae [REDACTED]  
 Applicant's Phone # Applicant's Social Security #

Business Owner's Name (if different from Applicant) Business Owner's Phone #

Business Owner's Address

B) BRIEF PERSONAL HISTORY:

Please provide a brief personal history (i.e. education, previous employments, owned businesses and the 5 most recent place of residence (feel free to attach additional pages if needed) :

I am a retired physical therapist. I worked at Memoria Hospital in Savannah (1973-1977). I have also worked in an outpatient facility and several nursing homes.  
I was born in Rochester Minnesota - Moved to Savannah at age 2. Married to Robert Groves and have resided in Savannah my entire life

C) CRIMINAL BACKGROUND (background check is required):

Has the applicant ever been convicted of any crime, violation of law or served time in prison?  Yes  No

If you answered yes to the above question please explain:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Attachment: Alcoholic Beverage License-8210 Hwy 21- Package Shop DEC 2017 (1763 : Alcoholic Beverage License 8210 Hwy 21 Package

D) FINANCIAL INTERESTS:

List all persons with financial interest in this business. Corporations must list all stockholders who own more than 10% of the corporation (feel free to attach additional pages if needed):

Name	Address	%Ownership
Anne W. Groves	483 Butler Ave (Sav. GA.) 31406	100%

Describe the interest owned or held by the applicant in the premises:

\_\_\_\_\_

D) BUSINESS DETAILS:

Are you the  Owner or  Tenant of this business location? If tenant, please provide landlord information.

Landlord name \_\_\_\_\_ Landlord Ph# \_\_\_\_\_

Landlord Address \_\_\_\_\_

What other kinds of business will be conducted at this location?

\_\_\_\_\_

Will the applicant operate business in person?  Yes  No If not, please list the name of the manager.

Dusty Folker	912-706-871-5970
Manager's Name	Manager's Ph #

In whose name will the income taxes be due on profits arising from the operation of said business?

Anne W. Groves

E) REFERENCES:

Please list 3 citizens of Port Wentworth as references:

Name	Address	Phone#
Betty J. Moore	96 Moore Drive	912-658-3842
Misty Folker	501 Old Richmond Rd Apt 1022	912-978-2306
Dustin Folker	501 Old Richmond Rd. Apt 1022 Port Wentworth, GA. 31407	706-871-5970

All of the foregoing information is hereby given and all of the following statements are hereby made on oath, willfully, knowingly, and absolutely, and the same is and are hereby sworn to be true under penalty for false swearing, as provided by law.

Sworn to and subscribed before me this 9th day of Nov

Notary Public



Anne W. Groves  
Applicant's Signature

Attachment: Alcoholic Beverage License-8210 Hwy 21- Package Shop DEC 2017 (1763 : Alcoholic Beverage License 8210 Hwy 21 Package

Private Employer Exemption Affidavit Pursuant To O.C.G.A. § 36-60-6(d)

By executing this affidavit, the undersigned private employer verifies that it is exempt from compliance with O.C.G.A. § 36-60-6, stating affirmatively that the individual, firm, or corporation employs ten (10) or fewer employees and is not required to register with and/or utilize the federal work authorization program commonly known as E-Verify, or any subsequent replacement program, in accordance with the applicable provisions and deadlines established in O.C.G.A. § 36-60-6.

Center  
Randall's Beverage, LLC  
Name of Exempt Private Employer

I hereby declare under penalty of perjury that the foregoing is true and correct. Executed on Nov, 9, 2017 in Port Wentworth (city), GA (state).

Anne W. Groves, Owner  
Signature of Authorized Officer or Agent

Anne W. Groves, Owner  
Printed Name and Title of Authorized Officer or Agent

**\*\*NOTE\*\*** This document may be notarized at City Hall IF you provide photo ID and sign this document in the presence of our notary. This is a complimentary service and no fee will be charged.

SUBSCRIBED AND SWORN BEFORE ME ON THIS THE 9<sup>th</sup> DAY OF NOV, 2017.

NOTARY PUBLIC



Attachment: Alcoholic Beverage License-8210 Hwy 21- Package Shop DEC 2017 (1763 : Alcoholic Beverage License 8210 Hwy 21 Package



# Affidavit Verifying Status for City Public Benefit Application

**Name of Business:**  
Randalls Beverage Center LLC

By executing this affidavit under oath, as an applicant for a City of Port Wentworth, Georgia Business License or Occupation Tax Certificate, Alcohol License, Taxi Permit or other public benefit as referenced in O.C.G.A. Section 50-36-1, I am stating the following with respect to my application for a City of Port Wentworth, Business License or Georgia Occupational Tax Certificate, Alcohol License, Taxi Permit or other public benefit (circle one) for

Anne W. Groves

[Name of natural person applying on behalf of individual, business, corporation, partnership, or other private entity]

1.)  I am an United States citizen

OR

2.) \_\_\_\_\_ I am a legal permanent resident 18 years of age or older or I am an otherwise qualified alien or non-immigrant under Federal Immigration and Nationality Act 18 years of age or older and lawfully present in the United States.\*

In making the above representation under oath, I understand that any person who knowingly and willfully makes a false, fictitious, or fraudulent statement or representation in an affidavit shall be guilty of a violation of Code Section 16-10-20 of the Official Code of Georgia.

Anne W. Groves  
SIGNATURE of Applicant

Nov 9, 2017  
Date

Anne W. Groves  
PRINTED NAME of Applicant

\* \_\_\_\_\_  
Alien Registration Number for Non-Citizens

SUBSCRIBED AND SWORN

BEFORE ME ON THIS THE 9th DAY OF Nov, 2017

Notary Public

Commission Expiration Date



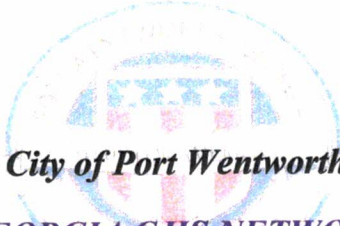
**\*\*NOTE\*\*** This document may be notarized at City Hall IF you provide a photo ID and sign this document in the presence of our notary. This is a complimentary service and no fee will be charged.

\*Note: O.C.G.A. § 50-36-1 (e)(2) requires that aliens under Federal Immigration and Nationality Act, Title 8 U.S.C., as amended, provide their alien registration number. Because legal permanent residents are included in the federal definition of "alien", legal permanent residents must also provide their alien registration number. Qualified aliens that do not have an alien registration number may supply another identifying number below:

\_\_\_\_\_

Attachment: Alcoholic Beverage License-8210 Hwy 21- Package Shop DEC 2017 (1763 : Alcoholic Beverage License 8210 Hwy 21 Package

*No History*  
*11-2017*



**City of Port Wentworth**  
**GEORGIA CJIS NETWORK**  
**POLICY MANUAL**

**CONSENT FORM**

I hereby authorize the City of Port Wentworth to receive any criminal history record information pertaining to me which may be in files of any state or local justice agency in Georgia.

Anne Winburn Groves  
Full Name (please print)

483 Butler Ave  
Savannah, GA Address  
31406

F  
Sex

white  
Race

[REDACTED]  
Date of Birth

[REDACTED]  
Social Security #

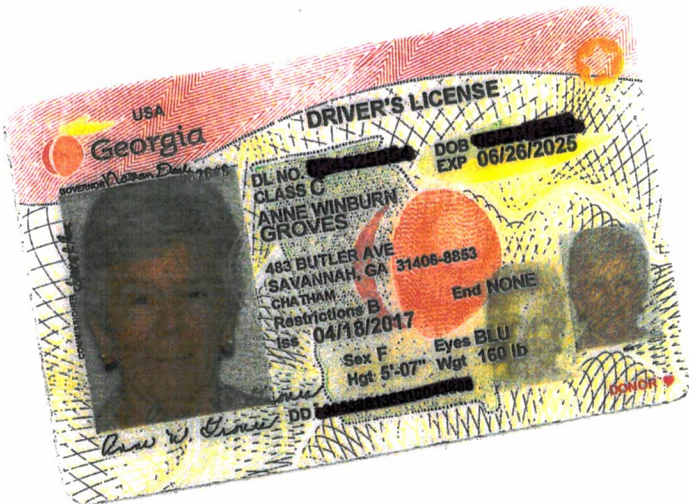
Anne W. Groves  
Signature

Sworn to and subscribed before me  
This 9th day of NOV, 2017

[Signature]  
Notary Public



Attachment: Alcoholic Beverage License-8210 Hwy 21- Package Shop DEC 2017 (1763 : Alcoholic Beverage License 8210 Hwy 21 Package



Attachment: Alcoholic Beverage License-8210 Hwy 21- Package Shop DEC 2017 (1763 : Alcoholic Beverage License 8210 Hwy 21 Package

CITY OF PORT WENTWORTH  
(912) 964-4379

REC#: 00174538 11/16/2017 1:02 PM  
OPER: YI TERM: 003  
REF#: 4038

TRAN: 111.0000 BUSINESS LICENSE  
0920-12/31/18 RANDALL'S BEVERAGE CENT  
PACKAGE SHOP 2,165.80CR  
ADMINISTRATIVE FEE-AL 100.00CR

TENDERED: 100.00 CHECK  
APPLIED: 2,165.80 CHECK  
2,265.80-  
CHANGE: 0.00

WWW.CITYOFPORTWENTWORTH.COM



**Planning Commission**  
 305 South Coastal Highway  
 Port Wentworth, GA 31407

Meeting: 12/11/17 06:30 PM  
 Department: Public Services  
 Category: Planning/Zoning Item  
 Prepared By: Melanie Ellis  
 Department Head: Brian Harvey

**SCHEDULED**

**AGENDA ITEM (ID # 1757)**

DOC ID: 1757

## **Site Plan Review Application submitted by Maupin Engineering, on behalf of Darel Sapp for PIN #'s: 7-0039B-01-002 , 003 (184 Godley Road) for a Specific Development Site Plan to allow a Wrecker Service in a P-I-1 (Planned Industrial) Zoning District**

**Issue/Item:** Site Plan Review Application submitted by Maupin Engineering, on behalf of Darel Sapp for PIN #'s: 7-0039B-01-002, 003 (184 Godley Road) for a Specific Development Site Plan to allow a Wrecker Service in a P-I-1 (Planned Industrial) Zoning District

**Background:** The subject property is currently undeveloped land and is located at 184 Godley Road.

**Facts and Findings:** The owner intends to construct a 10,870 square foot office building with a fenced gravel lot. The property will be serviced by a private well and septic tank. The site plan is currently under engineering review by Goodwyn, Mills, & Cawood.

**Funding: N/A**

**Recommendation:** The Planning Commission will hear this application on Monday, December 11, 2017 at 6:30PM.

**ATTACHMENTS:**

- Sapp Towing-Site Plan Review Application\_Signed(2) (PDF)
- Sapp Towing-1st Review Letter DECEMBER 2017 (PDF)
- SAPP TOWING\_10.9.17-1 Site Plan (PDF)





Adjacent Property Owners to SAPP TOWING (Pin: 7-00398B-01-002):

GEORGIA POWER COMPANY  
241 RALPH MCGILL BLVD NE  
ATLANTA, GA 30308-3374  
PIN: 7-0039b-01-001

PINDER POINT PROPERTIES LLC  
211 PINDER POINT RD  
PORT WENTWORTH, GA 31407  
PIN: 7-0039 -02-006

SAVANNAH ECONOMIC DEVELOPMENT  
PO BOX 128  
SAVANNAH, GA 31402-0128  
PIN: 2-0981 -02-021

**City of Port Wentworth****INVOICE #123**

305 South Coastal Highway, Port Wentworth, Georgia 31407

Phone 912-966-7427 Fax 912-966-3699 mellis@cityofportwentworth.com

## Customer

Darel Sapp

34 Gulfstream Road

Savannah, GA 31401

Invoice Date 11/1/2017

Sales Person Melanie Ellis

Permit # 140965

Phone 912-964-7277

Fax

**PAID**

NOV 01 2017

Job	Payment Due	Payment Terms
Sapp Towing-184 Godley Rd-Site Plan	11/1/2017	Due on Receipt

Product	Quantity	Unit Price	Line Total
ADMINISTRATIVE FEE	1	\$50.000	\$50.00
SITE PLAN/REVISION TO PUD (WITH LAND DISTURBANCE)	1	\$836.000	\$836.00

Products Total	\$886.00
<b>Invoice Total</b>	<b>\$886.00</b>

**Thank you for your business**

City of Port Wentworth 305 South Coastal Highway, Port Wentworth, Georgia 31407

Phone 912-966-7427 Fax 912-966-3699 mellis@cityofportwentworth.com

DOCUMENT IS PRINTED ON CHEMICALLY REACTIVE PAPER - THE BACK OF THIS DOCUMENT INCLUDES A TAMPER EVIDENT CHEMICAL WASH WARNING BOX



**SAPP'S WRECKER SERVICE, INC.**  
912-964-SAPP  
34 GULFSTREAM RD.  
SAVANNAH, GA 31407-0141

**BB&T**  
Branch Banking and Trust Company

479140

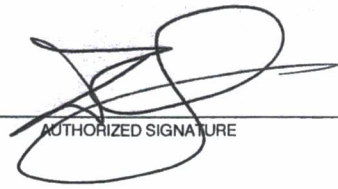
10/9/2017

PAY TO THE ORDER OF CITY OF PORT WENTWORTH

\$ \*\*886.00

Eight Hundred Eighty-Six and 00/100\*\*\*\*\* DOLLARS

CITY OF PORT WENTWORTH

  
AUTHORIZED SIGNATURE

MEMO Site Plan Application Fee

⑈4791409⑈ ⑆061113415⑆5142600783⑈

Received  
OCT 19 2017  
City of Port Wentworth

Attachment: Sapp Towing-Site Plan Review Application\_Signed(2) (1757 : Site Plan Review Application SAPP TOWING DECEMBER 2017)

CITY OF PORT WENTWORTH  
(912) 964-4379

REC#: 00172378 11/01/2017 10:11 AM  
OPER: YI TERM: 003  
REF#: 4791409

TRAN: 112.0000 BLDG PERMIT  
140965 886.00CR  
SAPP, DAREL  
184 GODLEY RD  
DEV-SPR 886.00CR

TENDERED: 886.00 CHECK  
APPLIED: 886.00-

CHANGE:                       
0.00

Attachment: Sapp Towing-Site Plan



December 6, 2017

Mr. Brian Harvey  
Director of Development Services  
City of Port Wentworth  
305 South Coastal Highway  
Port Wentworth, GA 31407

RE: Sapp Towing (1st Submittal)

Dear Mr. Harvey:

We have the initial submittal for the referenced project. Below are our comments.

- 1) Submit design details for the outlet structure.
- 2) Submit septic system approval document.
- 3) Was connecting to nearby City water considered?
- 4) Submit well system approval document.
- 5) Show the use of Flared End Sections for storm pipe (SD-11 Detail).
- 6) Provide curb and gutter detail.

Let us know if there are questions.

Sincerely,

**GOODWYN MILLS CAWOOD, INC.**

James C. Vaughn, Jr, P.E.  
Project Manager

Cc: Maupin Engineering (via email)

Goodwyn Mills Cawood

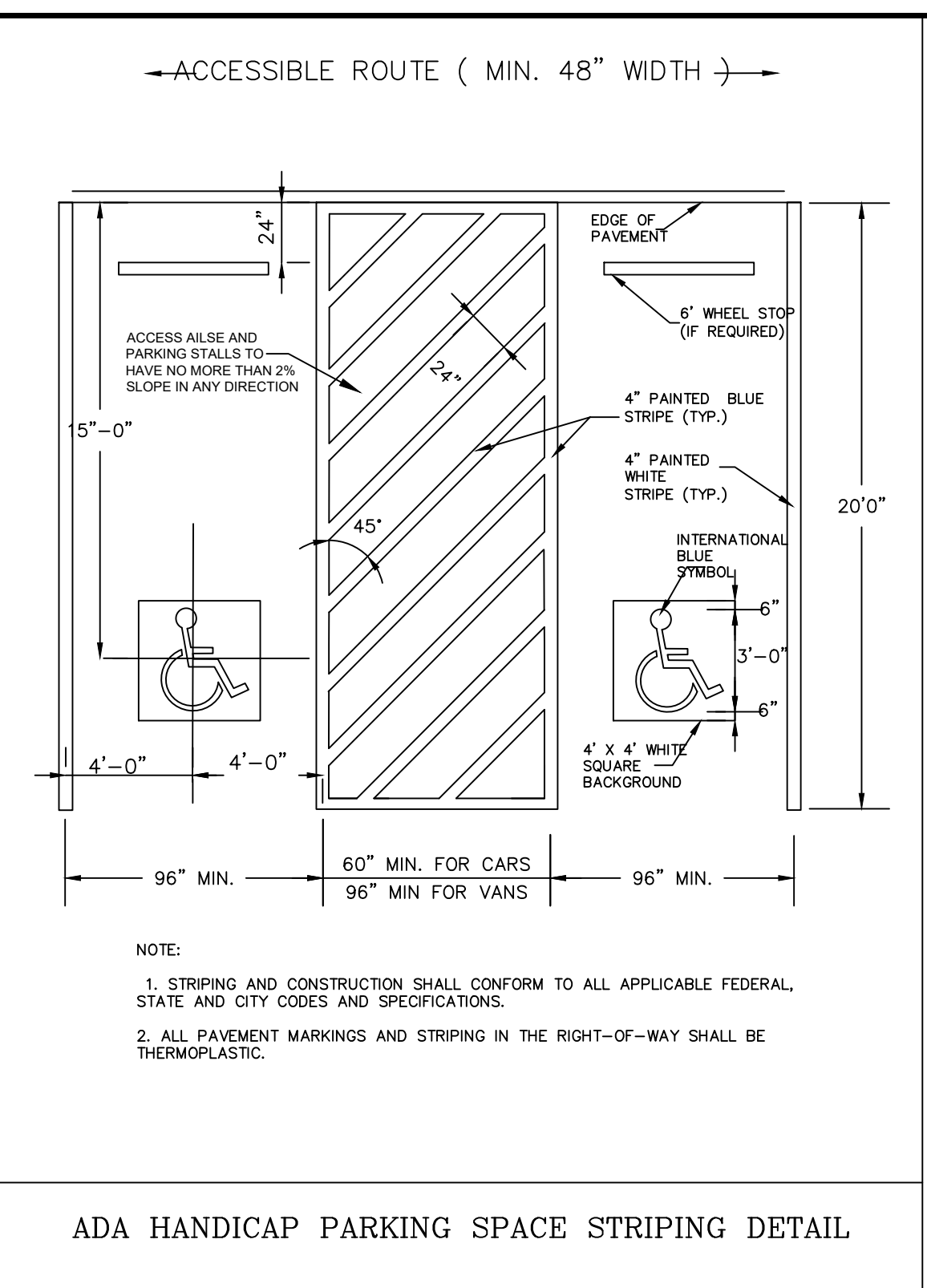
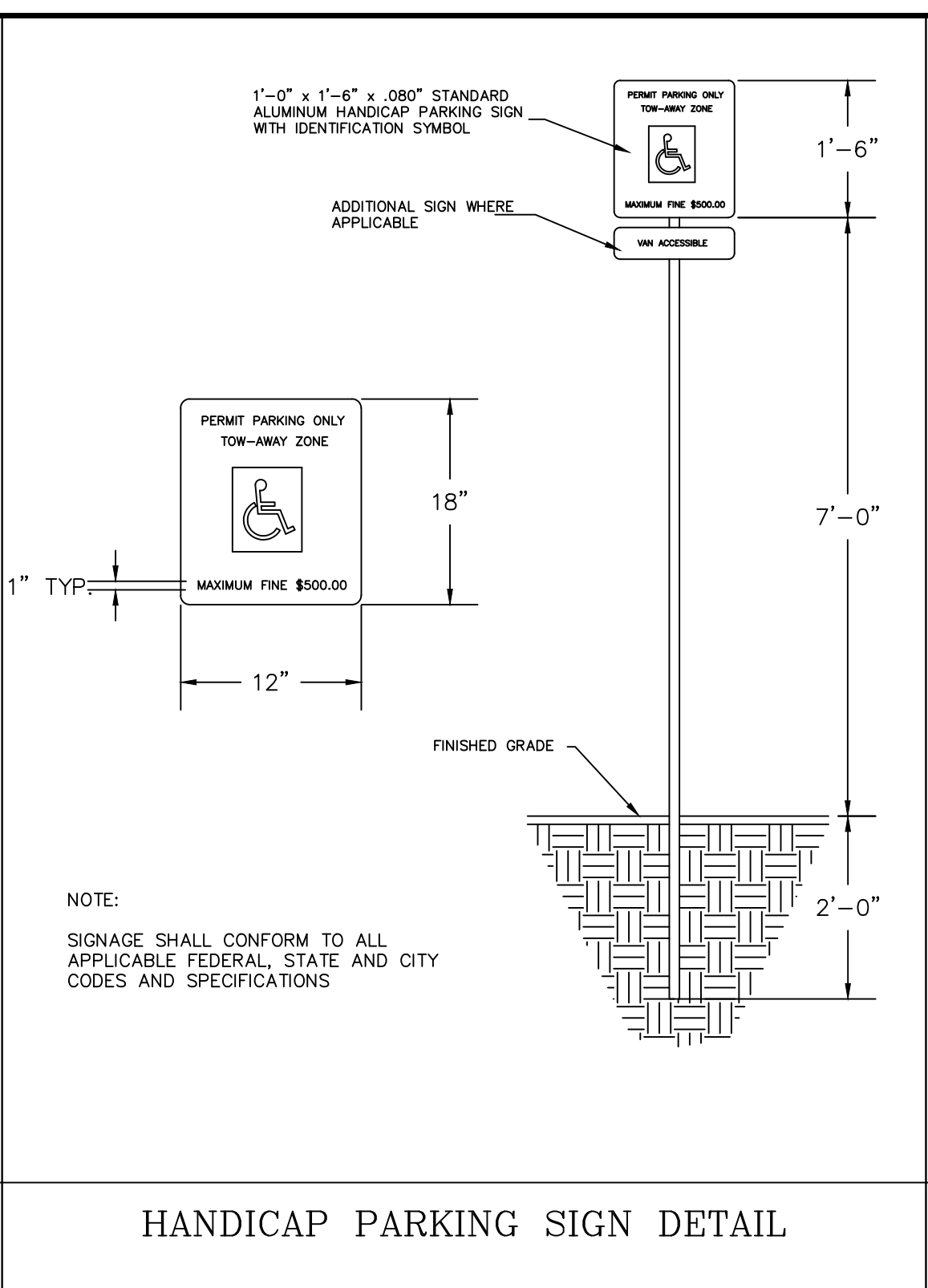
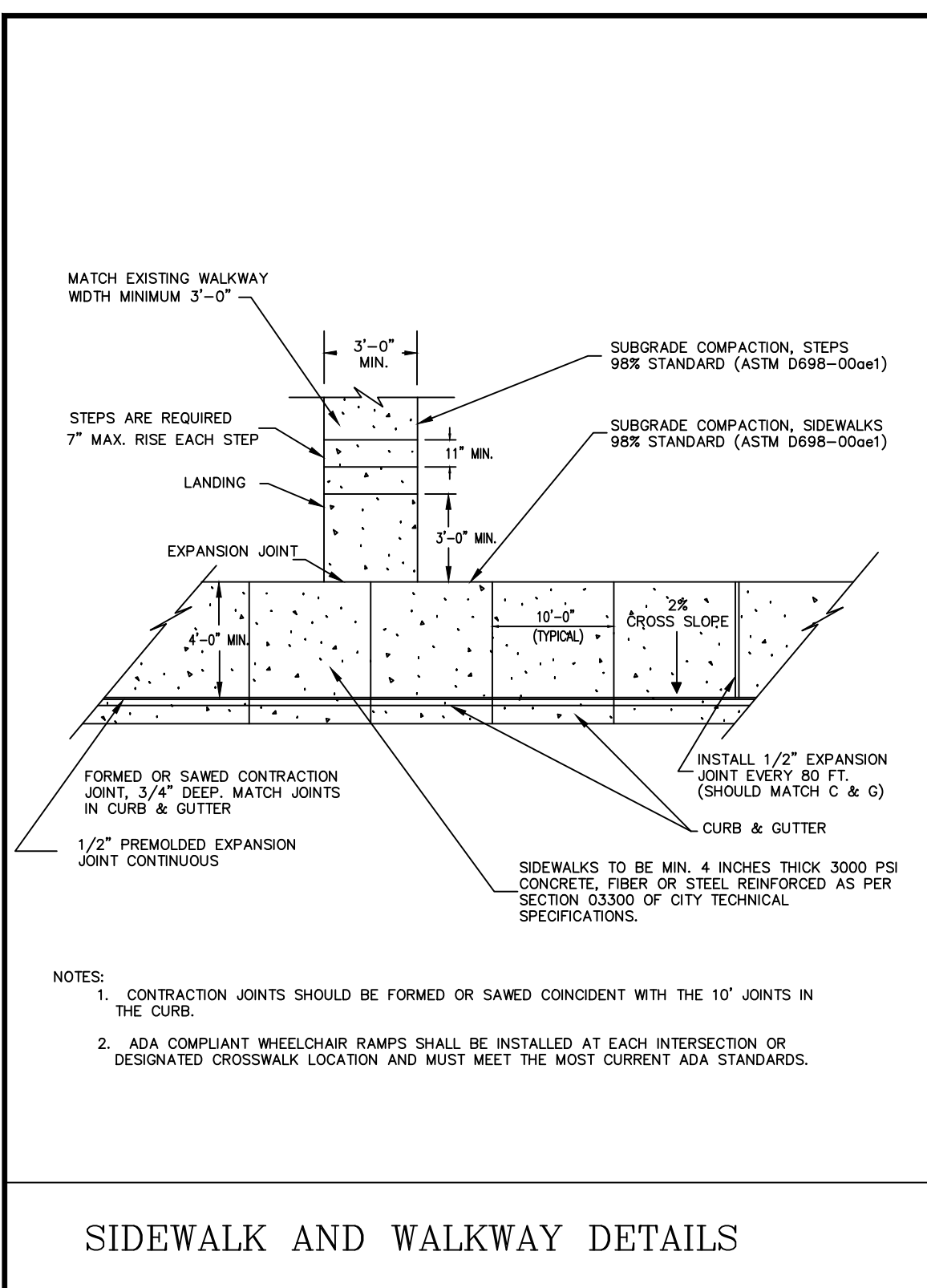
424 East Oglethorpe Avenue  
Savannah, GA 31401

T (912) 655-6790  
F (770) 955-1064

www.gmcnetwork.com

Attachment: Sapp Towing-1st Review Letter DECEMBER 2017 (1757 : Site Plan Review Application SAPP TOWING DECEMBER 2017)





**GENERAL DEVELOPMENT NOTES:**

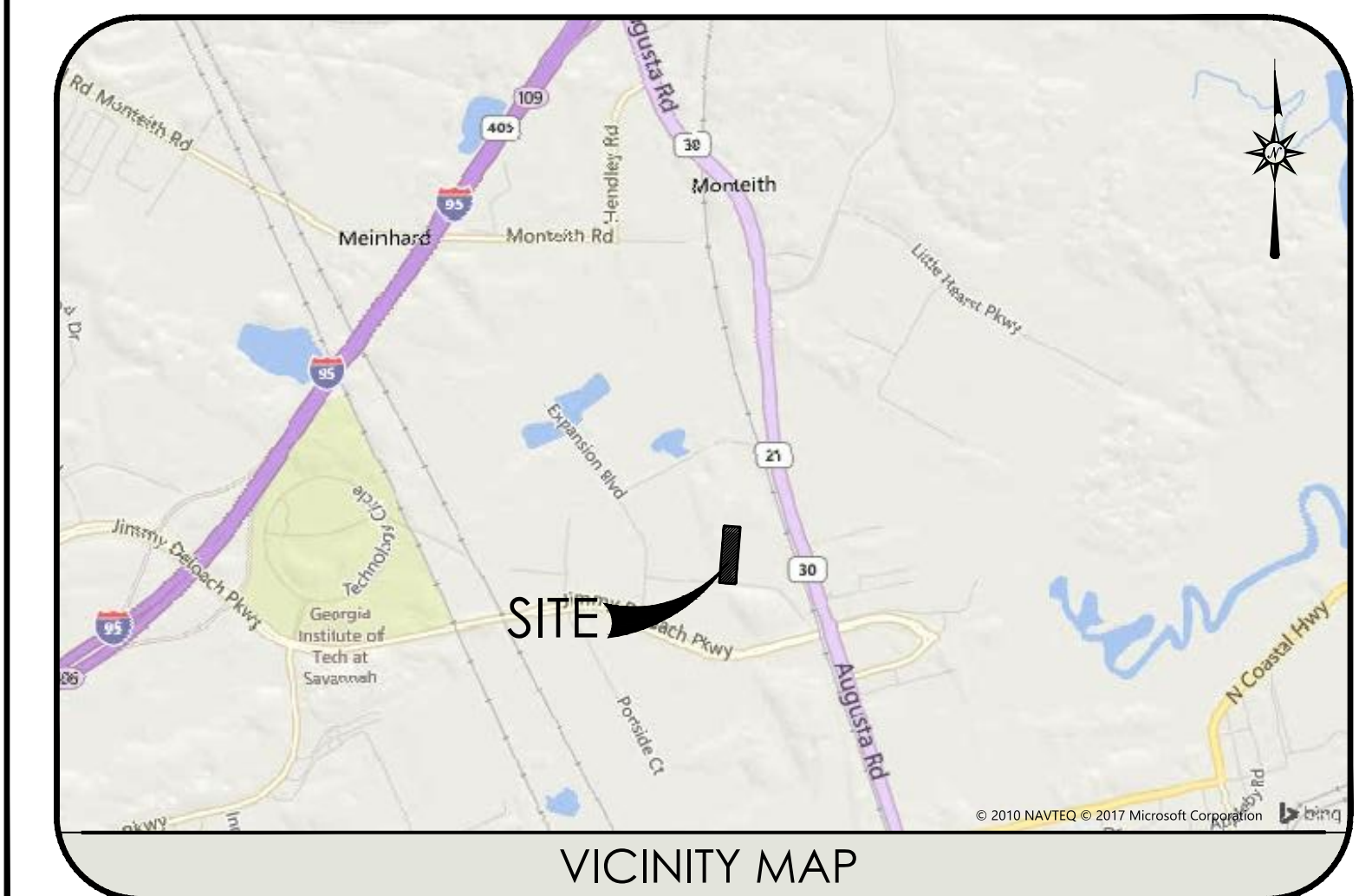
- PIN: 7-0039B-01-002, -003  
ADDRESS: 184 GODLEY RD  
PORT WENTWORTH, GA
- TOTAL LAND ACREAGE = 5.03(±) AC  
TOTAL DISTURBED ACREAGE = 4.15(±) AC
- EXISTING USE OF PROPERTY : UNDEVELOPED  
PROPOSED USE OF PROPERTY : WRECKER SERVICE  
PRESENT SITE ZONING : P-1
- PROPERTY IS LOCATED IN ZONE AE (elev. 11) A SPECIAL FLOOD HAZARD AREA AS DETERMINED BY FEMA FLOOD INSURANCE RATE MAP # 13051C0040G, DATED AUGUST 5, 2013
- THE SITE IS SERVED BY : ON-SITE WATER AND SEWER SERVICE.
- PARKING SPACE CALCULATIONS:  
REQUIRED: (WAREHOUSE) 1SPACE / 1,000sf = 10 spaces  
PROVIDED: 10+ Spaces

# SAPP TOWING

## Specific Development Plan

MEI Proj #516-17-01    Plan Date: 10/16/17

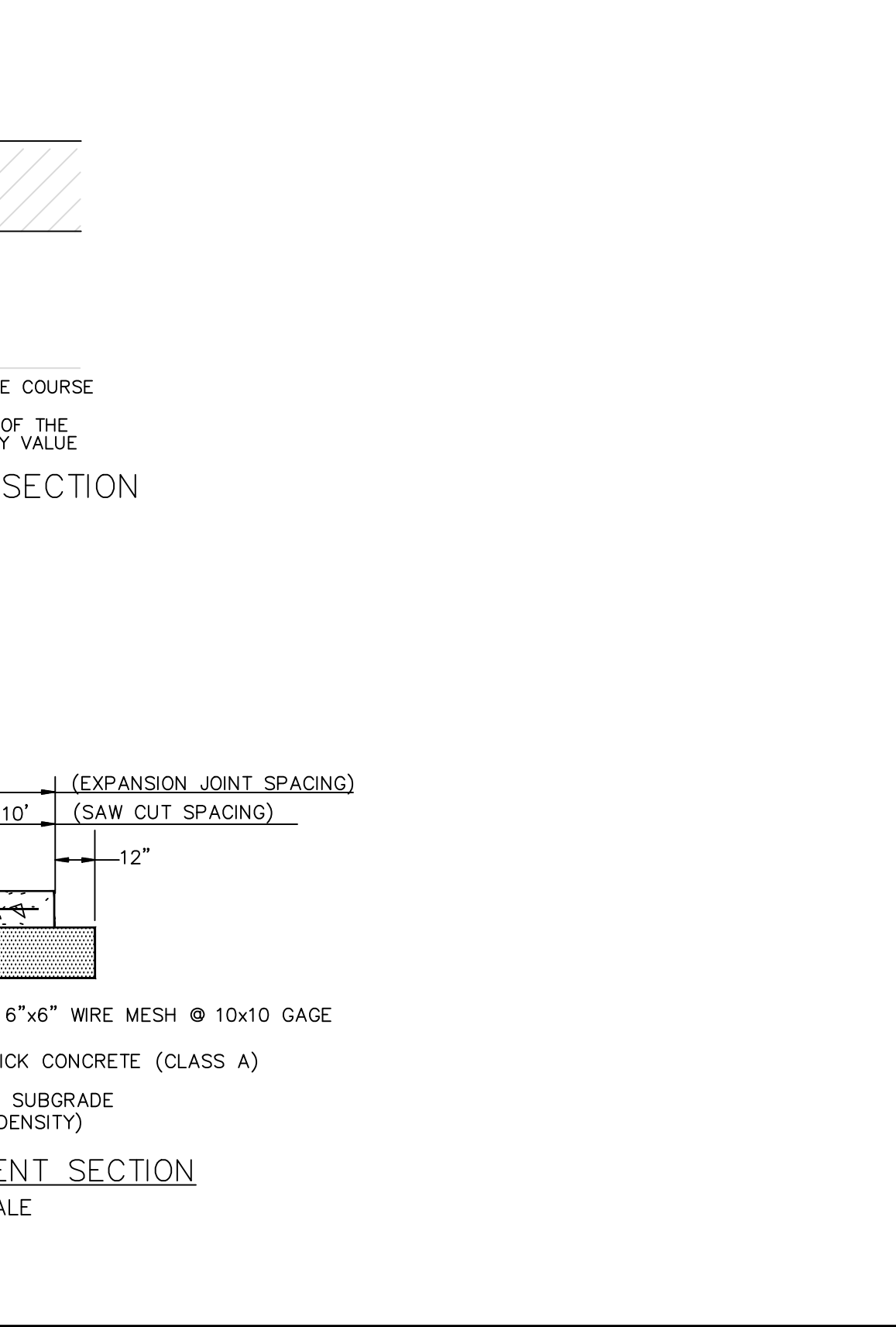
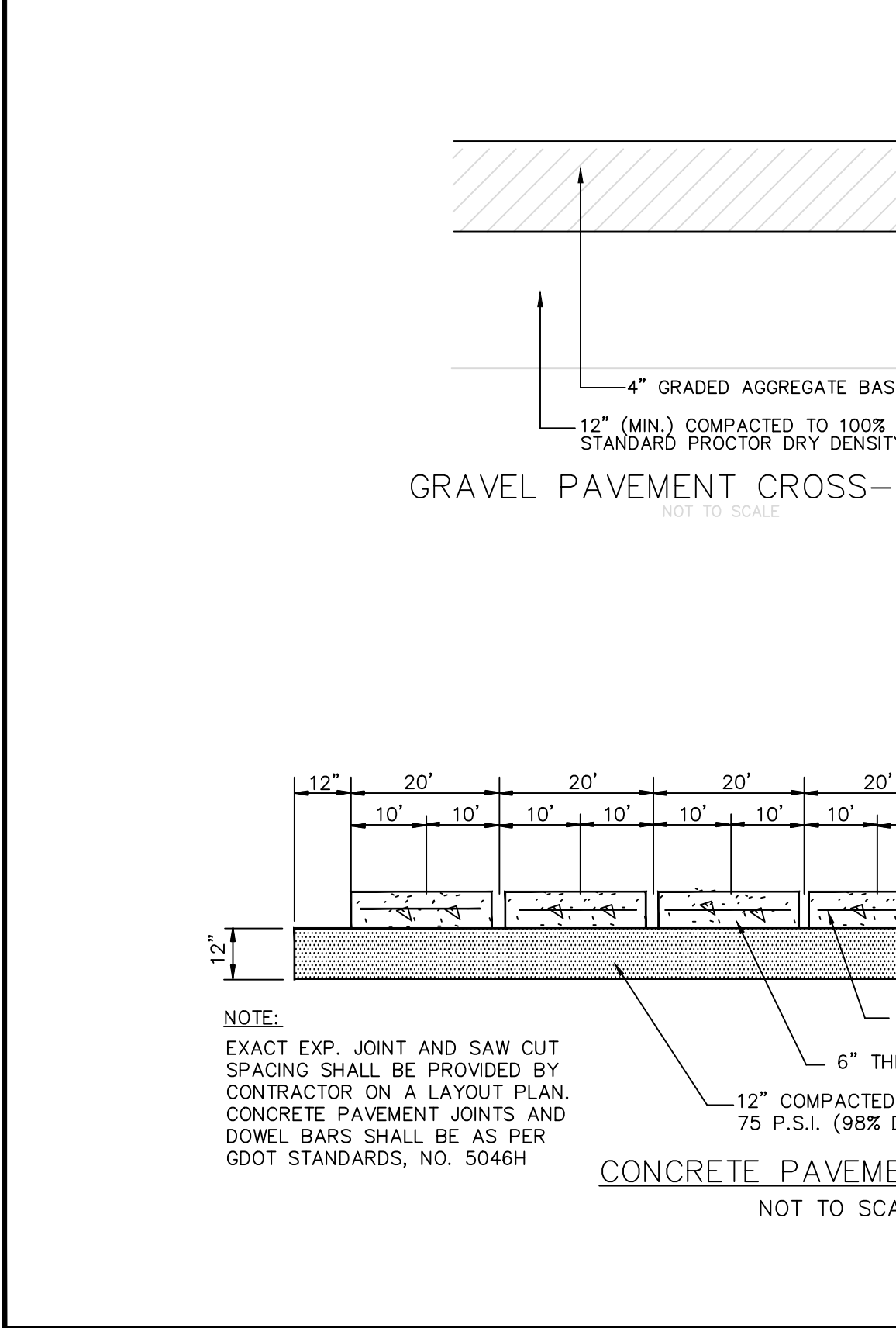
PREPARED FOR:  
SAPP TOWING  
DAREL SAPP  
34 GULFSTREAM RD  
SAVANNAH, GA 31408  
(912) 856-7277  
dcsapp@yahoo.com



SIDEWALK AND WALKWAY DETAILS

HANDICAP PARKING SIGN DETAIL

ADA HANDICAP PARKING SPACE STRIPING DETAIL



LEVEL II E&S CERT.  
#21051 EXP: 10/31/2018

REGISTERED PROFESSIONAL ENGINEER  
THOMAS A. MAUPIN

**MAUPIN**<sup>tm</sup>  
engineering

114 W. 42<sup>nd</sup> STREET • SAVANNAH, GA 31401  
O: 912 235 2915

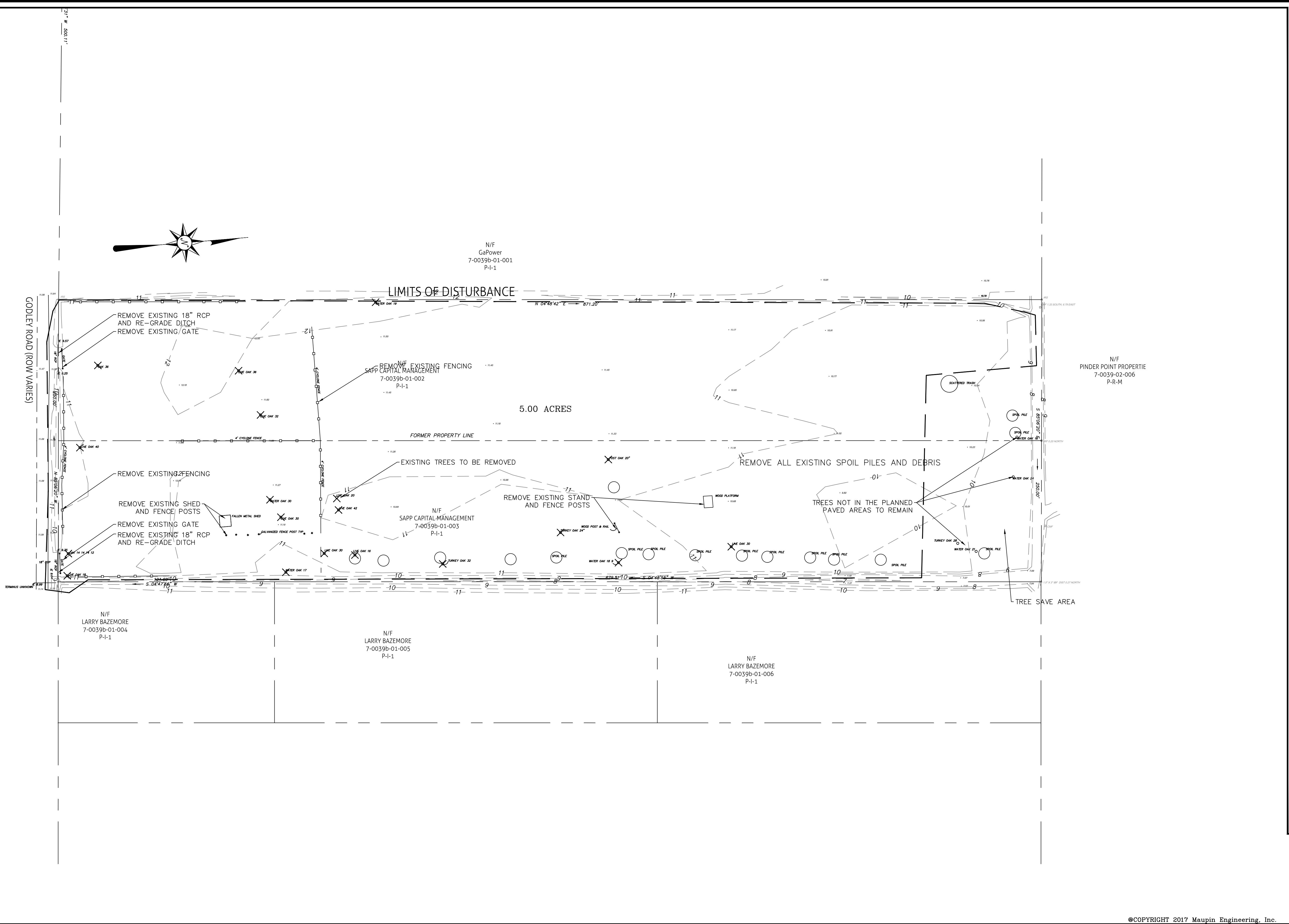
SHEET INDEX

C1	COVER - NOTES
C2	EXISTING CONDITIONS DEMO PLAN
C3	STAKING AND UTILITY PLAN
C4	GRADING PLAN
C5A	EROSION CONTROL PLAN - INITIAL
C5B	EROSION CONTROL PLAN - INTERMEDIATE
C5C	EROSION CONTROL PLAN - FINAL
D1-D2	DETAILS

REVISIONS		
NO.	DATE	DESCRIPTION

THIS SET IS RELEASED FOR PERMITTING 10/18/17

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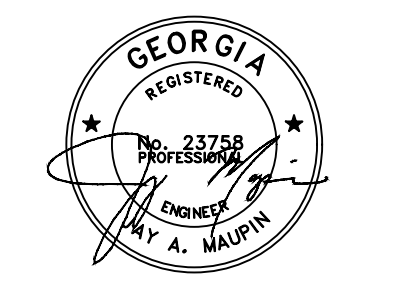


REVISIONS NO.	DATE	DESCRIPTION

**MAUPIN**<sup>INC</sup>  
engineering

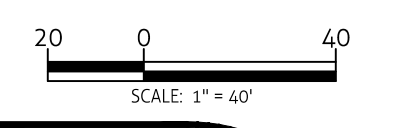
114 W. 42<sup>ND</sup> STREET  
CITY: SAVANNAH, GA 31401  
O: 912 235 2915

**EXISTING CONDITIONS & DEMOLITION PLAN**  
SAPP TOWING



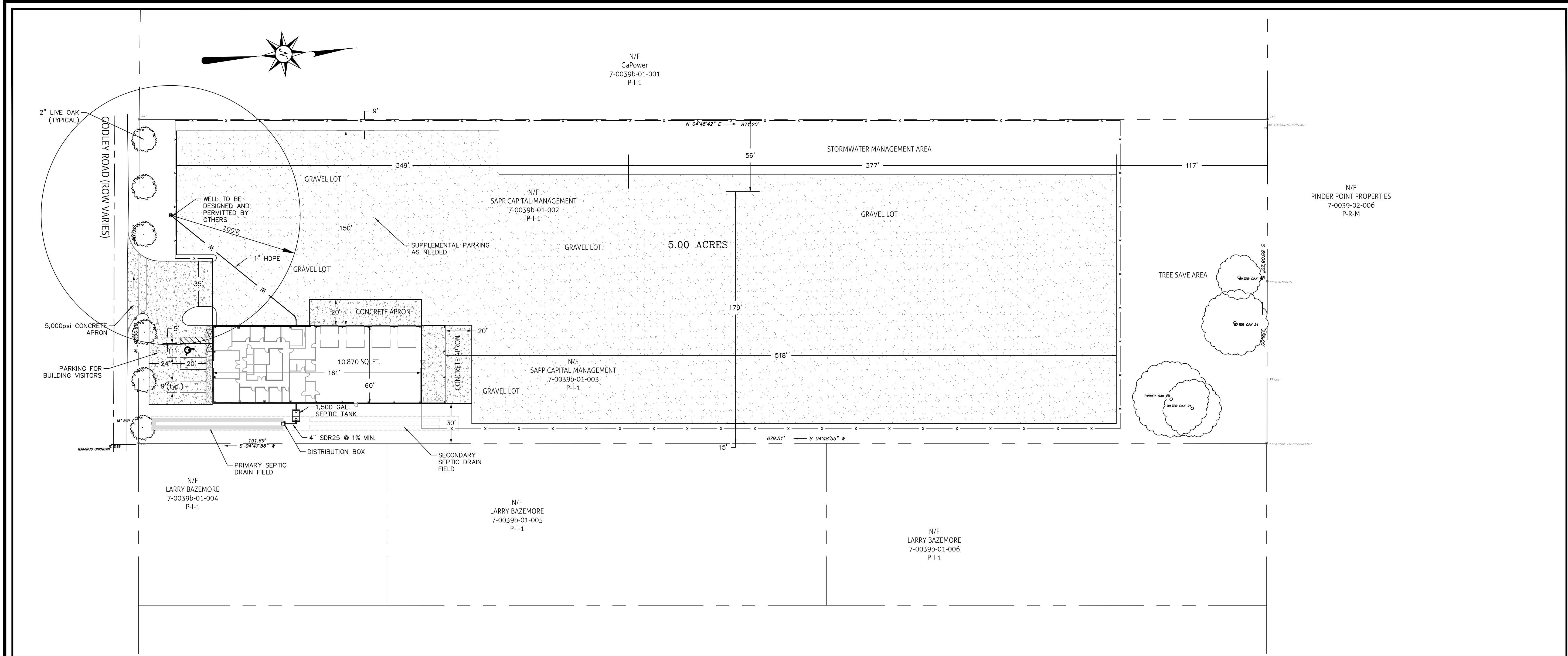
STATUS:  
**RELEASED FOR PERMITTING**

DRWN: BPM 10-16-2017  
CHK'D: JAM DATE



SHEET NO.  
**C.2**  
516-17-01





**ABSORPTION FIELD SIZING:**

BASED UPON BEST, INC. REPORT DATED 2/26/2014  
 ABSORPTION RATE, T = 30MIN/IN

FLOW RATE (TABLE JT-1)  
 STORE = 400GPD/ RESTROOM

# OF RESTROOMS = 2

FLOW RATE, Q = 800GPD/ RESTROOM \* 2 RESTROOMS = 800GPD

10 HOUR OPERATION = 1.3GPM

$(5/T^{0.5}) * Q / 3ft = LF$  REQUIRED

$1.095 * 800GPD / 3ft = 292lf$  REQUIRED

33% CREDIT FOR MULTPIPE = 196 lf REQUIRED

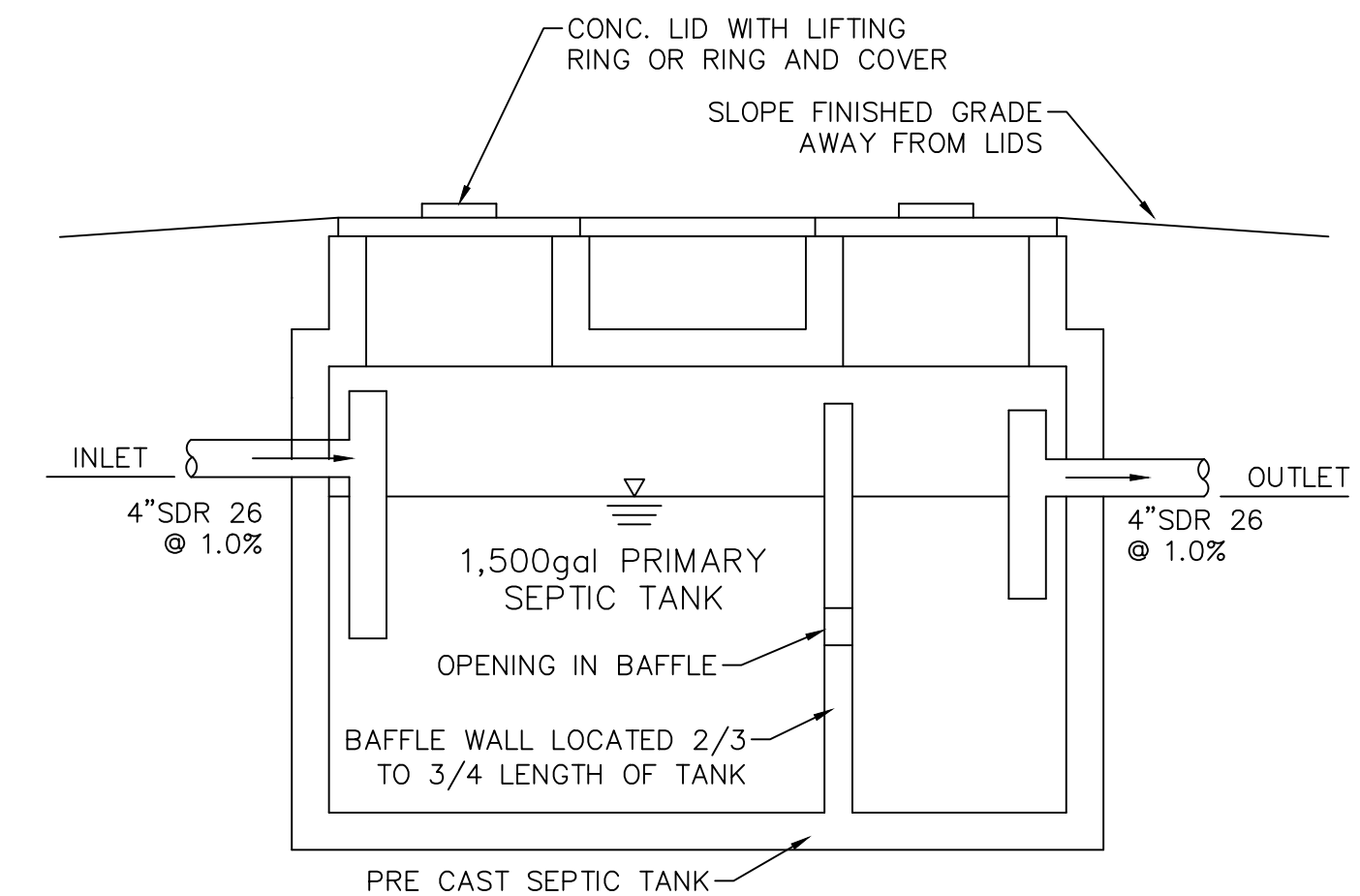
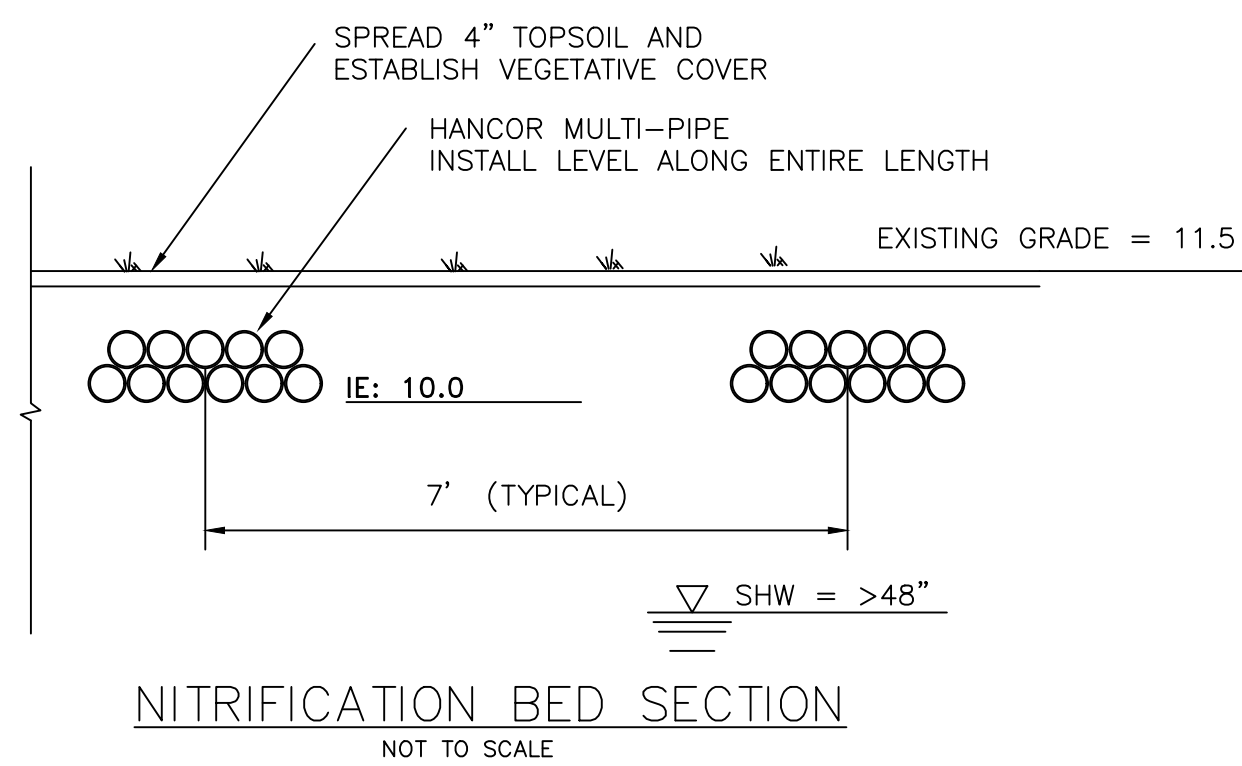
200lf PROVIDED

**NOTE:**

- PIN: 7-0039b-01-002, -003
- ADDRESS: 184 Godley Road Savannah, Ga 31407
- High Ground: 5.0 ac ±

I CERTIFY THIS ON-SITE SEWAGE MANAGEMENT SYSTEM MEETS THE MINIMUM DESIGN REQUIREMENTS ESTABLISHED BY THE DEPARTMENT OF COMMUNITY HEALTH. I HAVE MADE A SITE VISIT TO VERIFY THE SYSTEM CAN BE INSTALLED AS DESIGNED IN ACCORDANCE WITH THESE REGULATIONS.

JAY MAUPIN, P.E.



NOTE:  
 1. SEPTIC TANK SHALL BE PLACED ON A MIN. OF 4" #57 STONE

REVISIONS	NO.	DATE	DESCRIPTION

**MAUPIN**<sup>tm</sup>  
 engineering

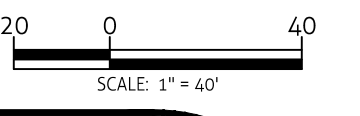
114 W. 42<sup>nd</sup> STREET • SAVANNAH, GA 31401  
 O: 912 235 2915

**STAKING & UTILITY PLAN**  
**SAPP TOWING**

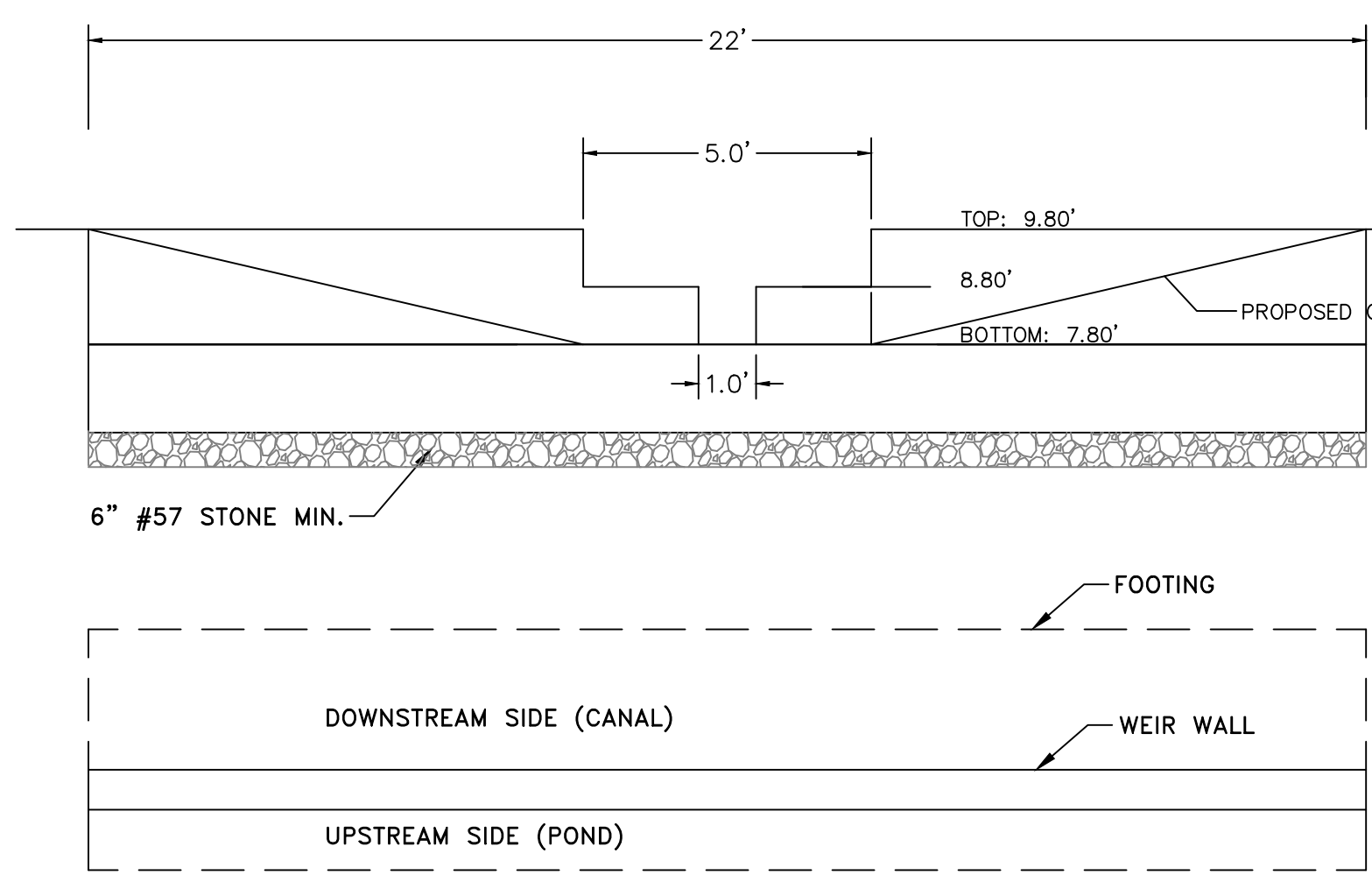
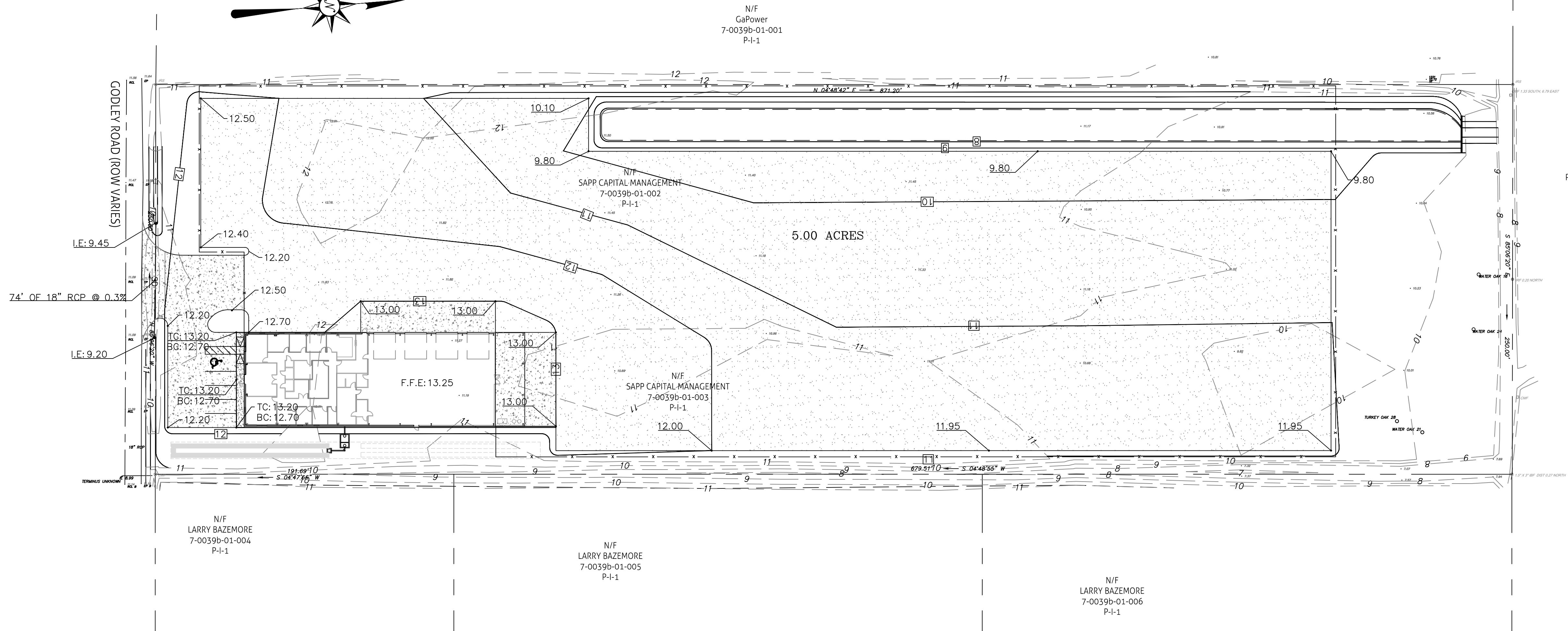
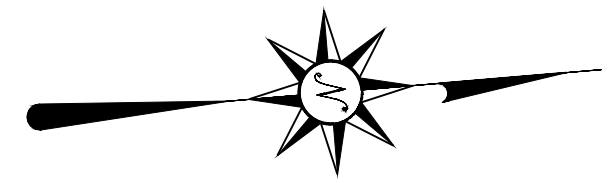


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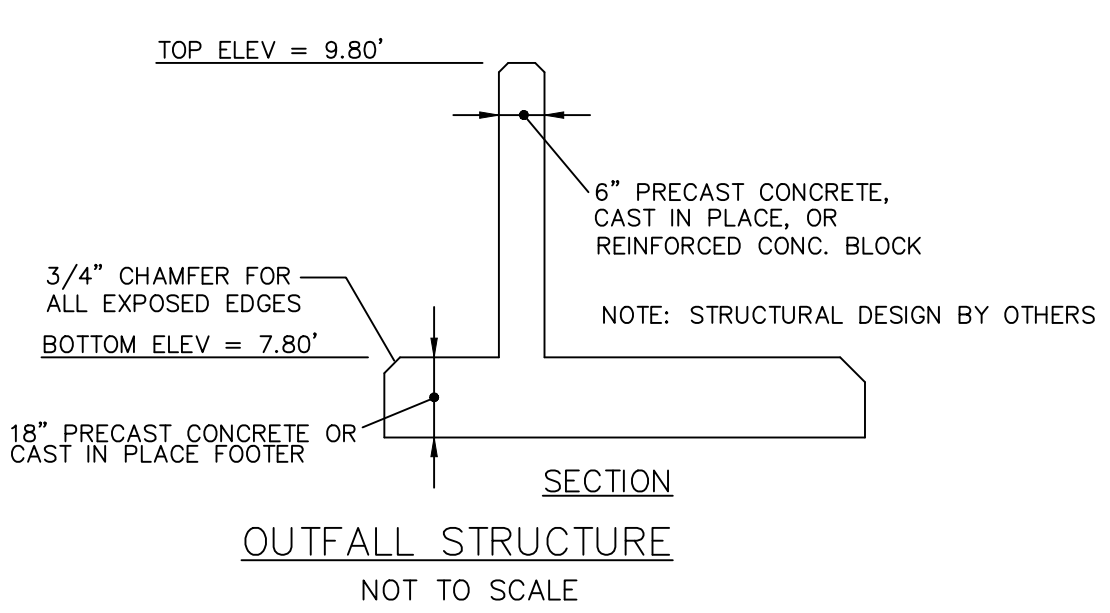
DRWN: BPM 9-6-2017  
 CHK'D: JAM DATE



SHEET NO.  
**C.3**  
 516-17-01



▽	100-YEAR = 9.76'
▽	50-YEAR = 9.61'
▽	25-YEAR = 9.51'
▽	10-YEAR = 9.34'
▽	1-YEAR = 8.71'



NO.	DATE	DESCRIPTION

**MAUPIN**  
engineering

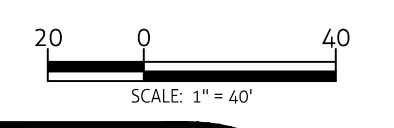
114 W. 42<sup>nd</sup> STREET • SAVANNAH, GA 31401  
O: 912 235 2915

**GRADING PLAN**  
**SAPP TOWING**



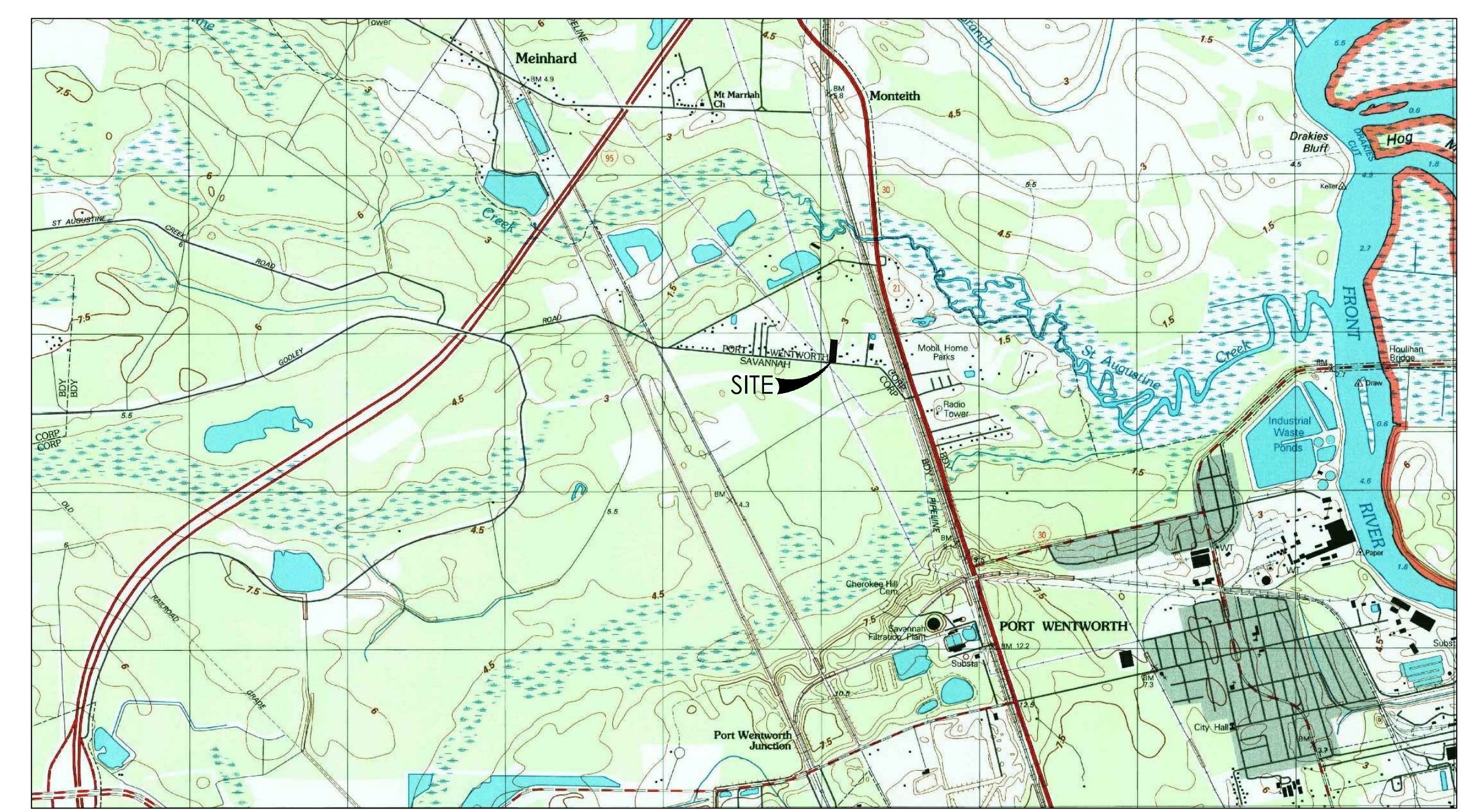
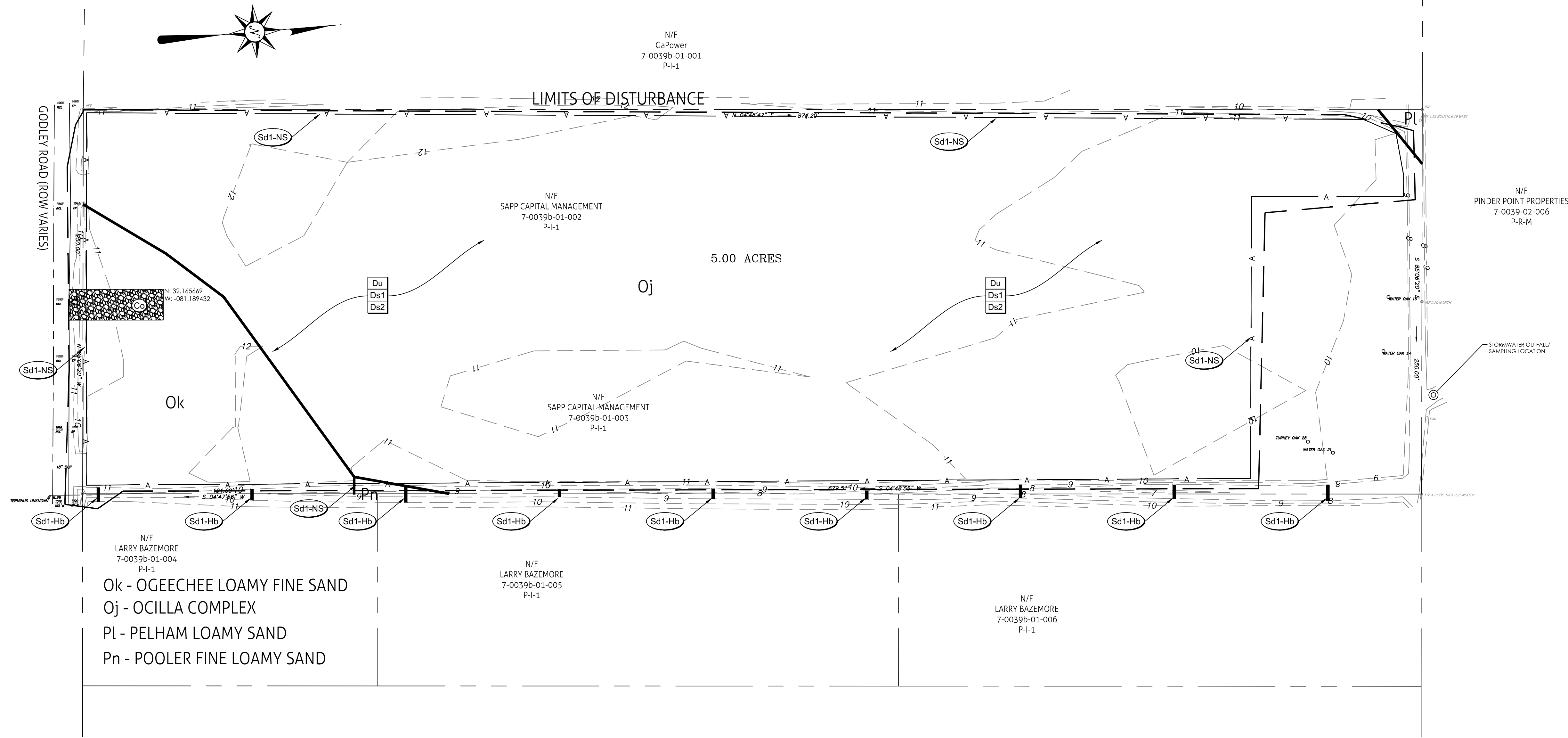
STATUS:  
**RELEASED FOR PERMITTING**

DRWN: BPM 10-16-2017  
CHK'D: JAM DATE



SHEET NO.  
**C.4**  
516-17-01





REVISIONS	NO.	DATE	DESCRIPTION

**MAUPIN**  
engineering

114 W. 42<sup>nd</sup> STREET  
SAVANNAH, GA 31401  
O: 912 235 2915

**SEDIMENT AND EROSION  
CONTROL PLAN - INITIAL**  
SAPP TOWING

LEVEL II E&S

GEORGIA REGISTERED PROFESSIONAL ENGINEER  
No. 23758  
W. A. MAUPIN

CERT. #21051 EXP: 10/31/2018  
STATUS: RELEASED FOR PERMITTING

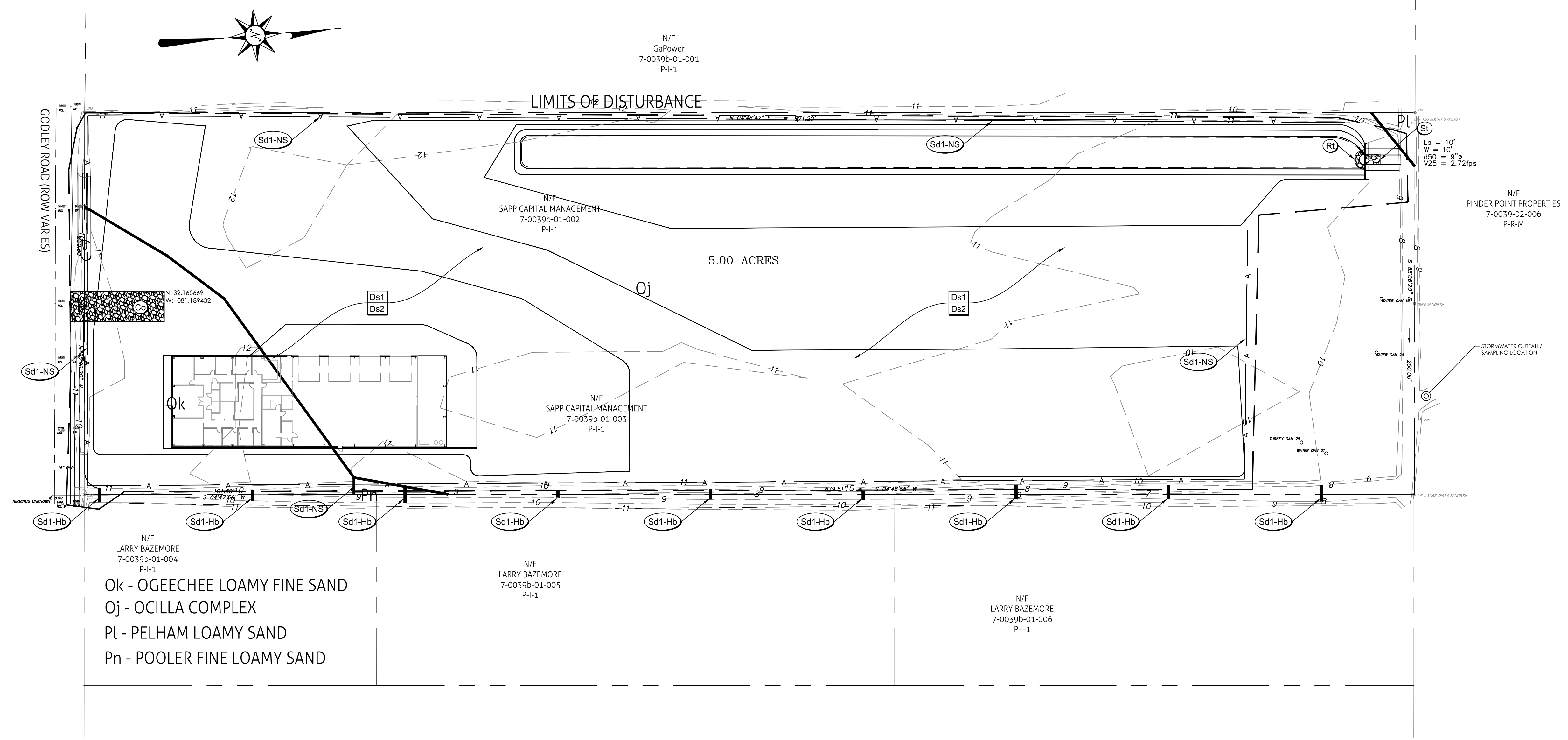
DRWN: BPM 10-16-2017  
CHK'D: JAM DATE

SCALE: 1" = 40'

SHEET NO.  
**C.5a**  
516-17-01

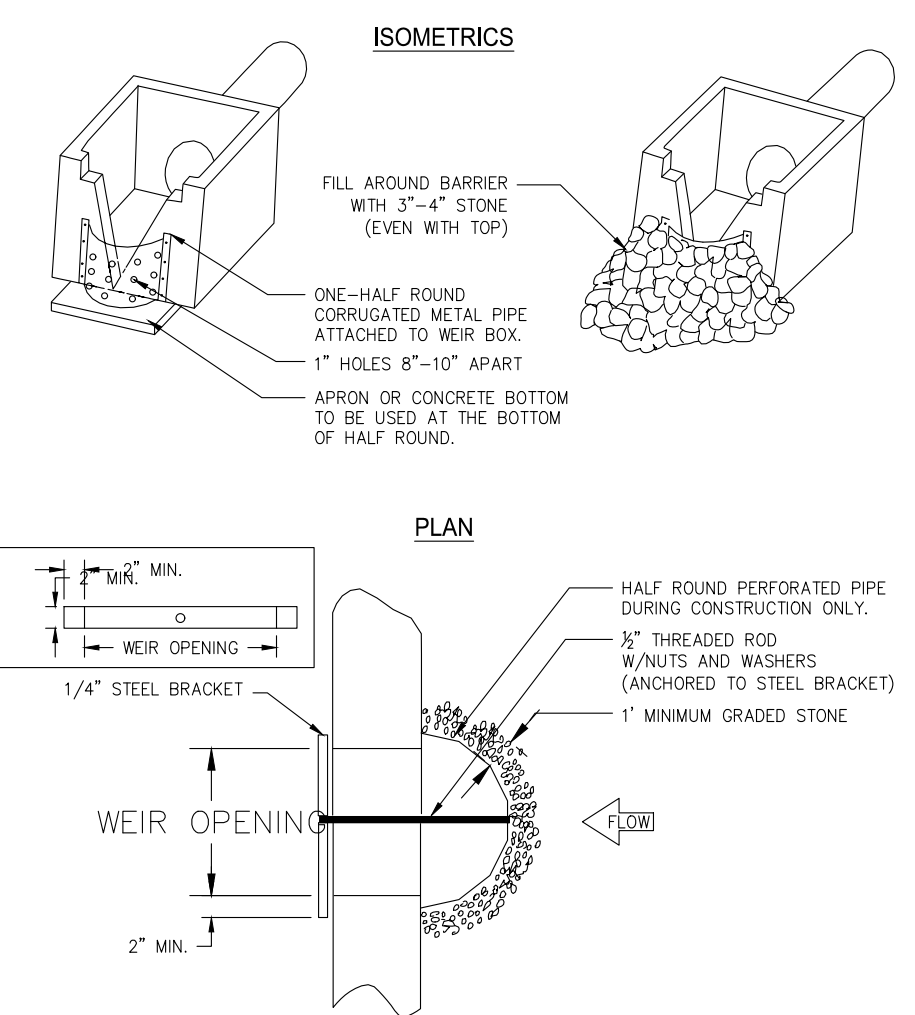
PROJECT NO.





Ok - OGEECHEE LOAMY FINE SAND  
 Oj - OCILLA COMPLEX  
 Pl - PELHAM LOAMY SAND  
 Pn - POOLER FINE LOAMY SAND

PERFORATED HALF-ROUND PIPE WITH STONE FILTER



SEEDING RATES FOR TEMPORARY & PERMANENT COVER

MONTH	TEMPORARY COVER	RATES PER ACRE	MONTH	PERMANENT COVER	RATES PER ACRE
MARCH-JUNE	COMMON BERMUDA (HULLED) WEeping LOVEGRASS	10 lbs. 4 lbs.	MARCH-JUNE	COMMON BERMUDA (HULLED) WEeping LOVEGRASS	10 lbs. 4 lbs.
APRIL-AUGUST	BROWN TOP MILLET SUDANGRASS PEARL MILLET	40 lbs. 60 lbs. 50 lbs.	JULY-AUGUST	COMMON BERMUDA (HULLED) & BROWN TOP MILLET COMMON BERMUDA (HULLED) & WEeping LOVEGRASS COMMON BERMUDA (HULLED) & PENSACOLA BAHIA & BROWN TOP MILLET	10 lbs. 10 lbs. 6 lbs. 2 lbs. 6 lbs. 30 lbs. 10 lbs.
SEPT-FEBRUARY	RYE (MOST WINTER HARDY) RYEGRASS BARLET WHEAT	3 BU 40 lbs. 3 BU 3 BU		PENSACOLA BAHIA & BROWN TOP MILLET PENSACOLA BAHIA & WEeping LOVEGRASS & BROWNTOP MILLET WEeping LOVEGRASS & BROWN TOP MILLET	60 lbs. 10 lbs. 30 lbs. 2 lbs. 10 lbs. 4 lbs. 10 lbs.

**NOTES**  
 1. CENTPEDE SOG CAN BE USED AS PERMANENT COVER ANYTIME EXCEPT JUNE THROUGH OCTOBER.  
 2. LISTED IN ORDER OF PREFERENCE.  
 3. ALL PERMANENT GRASS PLANTINGS SHALL BE MULCHED.

**Ds2-Ds3 NOTES:**

- Ds2 - 1.** A TEMPORARY GRASSING OF ANNUAL RYEGRASS SHALL BE APPLIED AT A RATE OF 40 LBS PER ACRE TO DISTURBED AREAS WITHIN 14 DAYS OF DISTURBANCE. THE PROPOSED ANNUAL RYEGRASS SHALL BE APPLIED DURING THE MONTHS OF SEPTEMBER THRU DECEMBER.
- 2.** A 6-12-12 FERTILIZER SHALL BE USED ON THE DISTURBED AREA OF Ds2 AND SHALL BE APPLIED AT A RATE OF 1500 LBS. PER AC.
- 3.** AGRICULTURAL LIME IS REQUIRED UNLESS SOIL TESTS INDICATE OTHERWISE.
- Ds3 - 1.** A PERMANENT GRASSING OF UNHULLED COMMON BERMUDA SHALL BE APPLIED AT A RATE OF 10 LBS. PER ACRE DURING THE MONTHS OF SEPTEMBER THRU FEBRUARY. IF A HYDRAULIC SEEDER IS TO BE USED, REFER TO THE EROSION AND SEDIMENT CONTROL MANUAL FOR FURTHER DIRECTION ON THE METHOD OF APPLICATION.
- 2.** A 6-12-12 FERTILIZER SHALL BE USED ON THE DISTURBED AREA OF Ds3 AND SHALL BE APPLIED AT RATE OF 1500 LBS. PER AC.
- 3.** DRIED STRAW OR DRY HAY SHALL BE USED FOR MULCHING AND APPLIED AT A RATE OF 2 TONS PER ACRE. MULCH WILL BE SPREAD UNIFORMLY WITHIN 24 HOURS AFTER SEEDING. THE MULCH MAY BE SPREAD BY BLOWER-TYPE SPREADING EQUIPEMENT, OTHER SPREADING EQUIPEMENT OR BY HAND. MULCH SHALL BE APPLIED TO COVER 75% OF THE SOIL SURFACE.
- 4.** AGRICULTURAL LIME IS REQUIRED AT A RATE OF 1 -2 TONS PER ACRE UNLESS SOIL TESTS INDICATE OTHERWISE.

REVISIONS

NO.	DATE	DESCRIPTION

**MAUPIN**  
engineering

114 W. 42<sup>nd</sup> STREET  
SAVANNAH, GA 31401  
O: 912 235 2915

**SEDIMENT AND EROSION CONTROL PLAN - INTERMEDIATE**  
SAPP TOWING

LEVEL II E&S

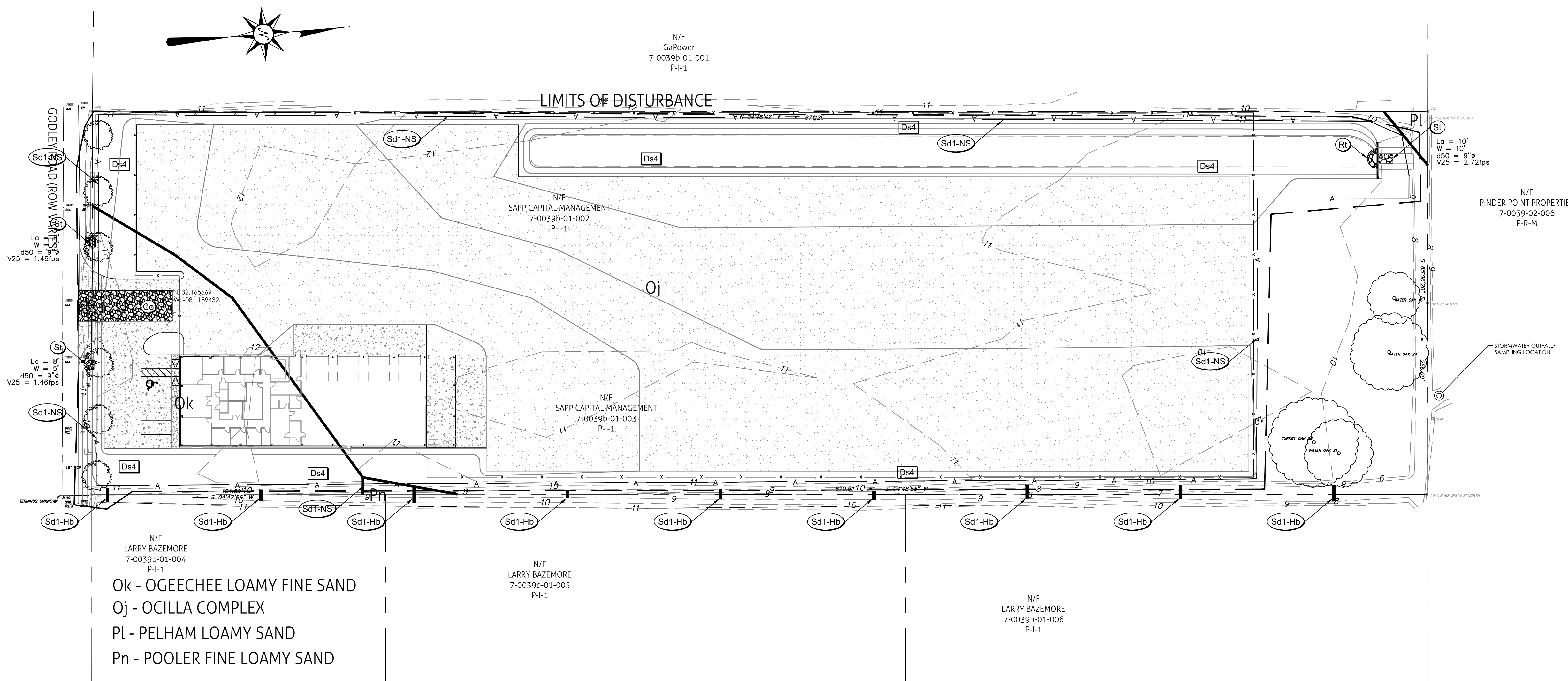
**GEORGIA REGISTERED PROFESSIONAL ENGINEER**  
No. 23758  
W. A. MAUPIN

CERT.#21051 EXP:10/31/2018  
STATUS:  
**RELEASED FOR PERMITTING**

DRWN: BPM 10-16-2017  
CHK'D: JAM DATE

20 0 40  
SCALE: 1" = 40'

SHEET NO.  
**C.5b**  
516-17-01  
PROJECT NO.



Ok - OGEECHEE LOAMY FINE SAND  
 Oj - OCILLA COMPLEX  
 Pl - PELHAM LOAMY SAND  
 Pn - POOLER FINE LOAMY SAND

- NOTE:  
 1. ONCE THE SITE IS PAVED, THE CONSTRUCTION EXIT WILL NO LONGER BE REQUIRED.  
 2. ONCE THE SITE IS STABILIZED, REMOVE ALL TEMPORARY BMP'S

Ds4 = SOD

REVISIONS	NO.	DATE	DESCRIPTION

**MAUPIN**<sup>tm</sup>  
 engineering

114 W. 42<sup>nd</sup> STREET • SAVANNAH, GA 31401  
 O: 912 235 2915

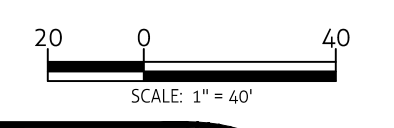
**SEDIMENT AND EROSION CONTROL PLAN - FINAL**  
**SAPP TOWING**

LEVEL II E&S

CERT.#21051 EXP:10/31/2018  
 STATUS:

RELEASED FOR PERMITTING

DRWN: BPM 10-16-2017  
 CHK'D: JAM DATE



SHEET NO.

**C.5c**  
 516-17-01

PROJECT NO.



2 DESIGN PROFESSIONAL'S CREDENTIALS: ENGINEER'S NAME (PRINTED): JAY MAUPIN, PE GEORGIA PE NUMBER: 23758 GSWCC LEVEL II CERTIFICATION NUMBER: 21051 CERTIFICATION NUMBER EXPIRATION DATE: 10/31/2018

4 24 HOUR CONTACT DAREL SAPP (912) 856-7277

5 PRIMARY PERMITEE: DAREL SAPP 34 GULFSTREAM RD SAVANNAH, GA 31408 c:(912) 856-7277

6 DEVELOPMENT THIS SITE IS BEING DEVELOPED FOR COMMERCIAL STORAGE USE. THE TOTAL PARCEL AREA IS 5.03(±) ACRES. THE DISTURBED AREA IS 4.15(±)ACRES.

7 CONSTRUCTION EXIT LOCATION N: 32.165669° W: -81.189432° EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN (ES&PC) THIS PLAN WAS PREPARED AS REQUIRED BY NPDES GENERAL PERMIT NO. GAR 100001. THESE PLAN SHEETS AND ALL REQUIREMENTS OF THE GENERAL PERMIT AS WELL AS LOCAL, STATE, AND FEDERAL REGULATIONS OR LAWS APPLY REGARDLESS OF SPECIFIC INCLUSION IN THIS PLAN.

9 CONSTRUCTION ACTIVITY DESCRIPTION OWNER/DEVELOPER (PRIMARY PERMITEE) WILL OVERSEE SITE CONSTRUCTION LOCATED ON THE PROPERTY SITUATED IN CITY OF PORT WENTWORTH, GA. PIN: 7-0039B-01-002, -003 THE DESIGNER WAS NOT KNOWLEDGEABLE OF ANY SECONDARY PERMITEES AT THE TIME OF PRODUCTION OF THE DRAWINGS.

10 NAME OF RECEIVING WATERS ON-SITE DETENTION ==> ST. AUGUSTINE CREEK ==> SAVANNAH RIVER

11 I CERTIFY UNDER PENALTY OF LAW THAT THIS PLAN WAS PREPARED AFTER A SITE VISIT TO THE LOCATIONS DESCRIBED HEREIN BY MYSELF OR MY AUTHORIZED AGENT, UNDER MY SUPERVISION. Jay Maupin 10/18/17

12 I CERTIFY THAT THE PERMITEE'S EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN PROVIDES FOR AN APPROPRIATE AND COMPREHENSIVE SYSTEM OF BEST MANAGEMENT PRACTICES REQUIRED BY THE GEORGIA WATER QUALITY CONTROL ACT AND THE DOCUMENT 'MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA' (MANUAL) PUBLISHED BY THE STATE SOIL AND WATER CONSERVATION COMMISSION AS OF JANUARY 1 OF THE YEAR IN WHICH THE LAND-DISTURBING ACTIVITY WAS PERMITTED. PROVIDES FOR THE SAMPLING OF THE RECEIVING WATER(S) OF THE SAMPLING OF THE STORM WATER OUTFALLS AND THAT THE DESIGNED SYSTEM OF BEST MANAGEMENT PRACTICES AND SAMPLING METHODS IS EXPECTED TO MEET THE REQUIREMENTS CONTAINED IN THE GENERAL NPDES PERMIT NO. GAR100001. Jay Maupin 10/18/17

13 THE DESIGN PROFESSIONAL WHO PREPARED THE ES&PC PLAN IS TO INSPECT THE INSTALLATION OF THE INITIAL SEDIMENT STORAGE REQUIREMENTS AND PERMETER CONTROL BMP'S WITHIN 7 DAYS AFTER INSTALLATION.

14 NON-EXEMPT ACTIVITIES SHALL NOT BE CONDUCTED WITHIN THE 25 OR 50-FOOT UNDISTURBED STREAM BUFFERS AS MEASURED FROM THE POINT OF INTEREST VEGETATION OR WITHIN 25-FEET OF THE COASTAL MARSHLAND BUFFER AS MEASURED FROM THE JURISDICTIONAL DETERMINATION LINE WITHOUT FIRST ACQUIRING THE NECESSARY VARIANCES AND PERMITS.

15 AMENDMENTS / REVISIONS TO THE EX&PC PLAN WHICH HAVE A SIGNIFICANT EFFECT ON BMP'S WITH A HYDRAULIC COMPONENT MUST BE CERTIFIED BY THE DESIGN PROFESSIONAL.

16 WASTE MATERIALS SHALL NOT BE DISCHARGED TO WATERS OF THE STATE, EXCEPT AS AUTHORIZED BY A SECTION 404.

17 THE ESCAPE OF SEDIMENT FROM THE SITE SHALL BE PREVENTED BY THE INSTALLATION OF EROSION AND SEDIMENT CONTROL MEASURES AND PRACTICES PRIOR TO LAND DISTURBING ACTIVITIES.

18 EROSION CONTROL MEASURES WILL BE MAINTAINED AT ALL TIMES. IF FULL IMPLEMENTATION OF THE APPROVED PLAN DOES NOT PROVIDE FOR EFFECTIVE EROSION CONTROL ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED TO CONTROL OR TREAT THE SEDIMENT SOURCE.

19 ANY DISTURBED AREA LEFT EXPOSED FOR A PERIOD GREATER THAN 14 DAYS SHALL BE STABILIZED WITH MULCH OR TEMPORARY SEEDING.

20 CONCRETE TRUCK WASHING - NO CONCRETE TRUCKS WILL BE ALLOWED TO WASH OUT OR DISCHARGE SURPLUS CONCRETE OR DRUM WASH WATER ONSITE.

21 PETROLEUM-BASED PRODUCTS - CONTAINERS FOR PRODUCTS SUCH AS FUELS, LUBRICANTS, AND TARS WILL BE INSPECTED DAILY FOR LEAKS AND SPILLS. THIS INCLUDES ONSITE VEHICLE AND MACHINERY DAILY INSPECTIONS AND REGULAR PREVENTATIVE MAINTENANCE OF SUCH EQUIPMENT. EQUIPMENT MAINTENANCE AREAS WILL BE LOCATED AWAY FROM STATE WATER, NATURAL DRAINS, AND STORMWATER DRAINAGE INFILTS. IN ANY TEMPORARY FUELING TANKS SHALL HAVE A SECONDARY CONTAINMENT LINER TO PREVENT/MINIMIZE SITE CONTAMINATION. DISCHARGE OF OILS, FUELS, AND LUBRICANTS IS PROHIBITED. PROPER DISPOSAL METHODS WILL INCLUDE COLLECTION IN A SUITABLE CONTAINER AND DISPOSAL AS REQUIRED BY LOCAL AND STATE REGULATIONS.

22 PAINTS/FINISHES/SOLVENTS - ALL PRODUCTS WILL BE STORED IN TIGHTLY SEALED ORIGINAL CONTAINERS WHEN NOT IN USE. EXCESS PRODUCT WILL NOT BE DISCHARGED TO THE STORMWATER COLLECTION SYSTEM. EXCESS PRODUCT, MATERIALS USED WITH THESE PRODUCTS AND PRODUCT CONTAINERS WILL BE DISPOSED OF ACCORDING TO MANUFACTURER'S SPECIFICATIONS AND RECOMMENDATIONS.

23 FERTILIZER/HERBICIDE - THESE PRODUCTS WILL BE APPLIED AT RATES THAT DO NOT EXCEED THE MANUFACTURER'S SPECIFICATIONS OR ABOVE THE GUIDELINES SET FORTH IN THE CROP ESTABLISHMENT OR IN THE GSWCC MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA. ANY STORAGE OF THESE MATERIALS WILL BE UNDER ROOF IN SEALED CONTAINERS.

24 BUILDING MATERIALS - NO BUILDING OR CONSTRUCTION MATERIALS WILL BE BURIED OR DISPOSED OF ONSITE. ALL SUCH MATERIALS WILL BE DISPOSED OF IN PROPER WASTE DISPOSAL PROCEDURES.

25 SPILL CLEANUP AND CONTROL PRACTICES LOCAL, STATE, AND MANUFACTURER'S RECOMMENDED METHODS FOR SPILL CLEANUP WILL BE CLEARLY POSTED AND PROCEDURES WILL BE MADE AVAILABLE TO SITE PERSONNEL. MATERIAL AND EQUIPMENT NECESSARY FOR SPILL CLEANUP WILL BE KEPT IN THE MATERIAL STORAGE AREAS. TYPICAL MATERIALS AND EQUIPMENT INCLUDES, BUT IS NOT LIMITED TO, BROOMS, DUSTPANS, MOPS, RAGS, GLOVES, GOGGLES, CAT LITTER, SAND, SAWDUST, AND PROPERLY LABELED PLASTIC AND METAL WASTE CONTAINERS. SPILL PREVENTION PRACTICES AND PROCEDURES WILL BE REVIEWED AFTER A SPILL AND ADJUSTED AS NECESSARY TO PREVENT FUTURE SPILLS. ALL SPILLS WILL BE CLEANED UP IMMEDIATELY UPON DISCOVERY. ALL SPILLS WILL BE REPORTED AS REQUIRED BY LOCAL, STATE, AND FEDERAL REGULATIONS. FOR SPILLS THAT IMPACT SURFACE WATER (LEAVE A SHEEN ON SURFACE WATER), THE NATIONAL RESPONSE CENTER (NRC) WILL BE CONTACTED WITHIN 24 HOURS AT 1-800-426-2675. FOR SPILLS OF AN UNKNOWN AMOUNT, THE NATIONAL CENTER (NRC) WILL BE CONTACTED WITHIN 24 HOURS AT 1-800-426-2675. FOR SPILLS GREATER THAN 25 GALLONS AND NO SURFACE WATER IMPACTS, THE GEORGIA EPD WILL BE CONTACTED WITHIN 24 HOURS. FOR SPILLS LESS THAN 25 GALLONS AND NO SURFACE WATER IMPACTS, THE SPILL WILL BE CLEANED AND LOCAL AGENCIES CONTACTED AS REQUIRED.

26 THE CONTRACTOR SHALL NOTIFY THE LICENSED PROFESSIONAL WHO PREPARED WITH PLAN IF MORE THAN 1,320 GALLONS OF PETROLEUM IS STORED ONSITE (THIS INCLUDES CAPACITIES OF EQUIPMENT) OR IF ANY ONE PIECE OF EQUIPMENT HAS A CAPACITY GREATER THAN 660 GALLONS. THE CONTRACTOR WILL NEED A SPILL PREVENTION CONTAINMENT AND COUNTERMEASURES PLAN PREPARED BY THAT LICENSED PROFESSIONAL.

26/27 UPON COMPLETION OF THIS PROJECT THE CONTRACTOR SHALL REMOVE ALL EROSION CONTROL MEASURES EXCEPT AS NOTED ON THE PLANS. POLLUTANTS FROM THE SITE WILL BE TREATED BY THE BIODETENTION & SEDIMENT POND INSTALLED DURING CONSTRUCTION.

29 (1) EACH DAY WHEN ANY TYPE OF CONSTRUCTION ACTIVITY HAS TAKEN PLACE AT A PRIMARY PERMITEE'S SITE, CERTIFIED PERSONNEL PROVIDED BY THE PRIMARY PERMITEE SHALL INSPECT: A. ALL AREAS A THE PRIMARY PERMITEE'S SITE WHERE PETROLEUM PRODUCTS ARE STORED, USED, OR HANDLED. LEAKS FROM VEHICLES AND EQUIPMENT AND B. ALL LOCATIONS AT THE PRIMARY PERMITEE'S SITE WHERE VEHICLES ENTER OR EXIT THE SITE FOR EVIDENCE OF OFF-SITE SEDIMENT TRACKING. THESE INSPECTIONS MUST BE CONDUCTED UNTIL A NOTICE OF TERMINATION IS SUBMITTED.

(2) MEASURE RAINFALL ONCE EVERY 24-HOURS EXPECT ANY NON-WORKING SATURDAY, NON-WORKING SUNDAY AND NON-WORKING FEDERAL HOLIDAY UNTIL A NOTICE OF TERMINATION IS SUBMITTED. MEASUREMENT OF RAINFALL MAY BE SUSPENDED IF ALL AREAS OF THE SITE HAVE UNDERGONE FINAL STABILIZATION OR ESTABLISHED A CROP OF ANNUAL VEGETATION AND SEEDING OF TARGET PERENNIALS APPROPRIATE OF THE REGION.

(3) CERTIFIED PERSONNEL (PROVIDED BY THE PRIMARY PERMITEE) SHALL INSPECT THE FOLLOWING AT LEAST ONCE EVERY SEVEN (7) CALENDAR DAYS AND WITHIN 24 HOURS OF THE END OF A STORM THAT IS 0.5 INCHES RAINFALL OR GREATER (UNLESS SUCH STORM ENDS AFTER 5:00 PM ON ANY FRIDAY OR ON ANY NON-WORKING SATURDAY, NON-WORKING SUNDAY OR ANY NON-WORKING FEDERAL HOLIDAY IN WHICH CASE THE INSPECTION SHALL BE COMPLETED BY THE END OF THE NEXT BUSINESS DAY AND/OR WORKING DAY, WHICHEVER OCCURS FIRST): (A) DISTURBED AREAS OF PRIMARY PERMITEE'S CONSTRUCTION SITE ; (B) AREAS USE BY THE PRIMARY PERMITEE FOR STORAGE OF MATERIALS THAT ARE EXPOSED TO PRECIPITATION ; AND (C) STRUCTURAL CONTROL MEASURES. EROSION AND SEDIMENT CONTROL MEASURES IDENTIFIED IN THE PLAN APPLICABLE TO THE PRIMARY PERMITEE'S SITE SHALL BE OBSERVED TO ENSURE THAT THEY ARE OPERATING CORRECTLY. WHERE DISCHARGE LOCATIONS OR POINTS ARE ACCESSIBLE, THEY SHALL BE INSPECTED TO ASCERTAIN WHETHER EROSION CONTROL MEASURES ARE EFFECTIVE IN PREVENTING SIGNIFICANT IMPACTS TO RECEIVING WATER(S). FOR AREAS OF A SITE THAT HAVE UNDERGONE FINAL STABILIZATION OR ESTABLISHED A CROP OF ANNUAL VEGETATION AND A SEEDING TARGET PERENNIALS APPROPRIATE FOR THE REGION, THE PERMITEE MUST COMPLY WITH PART IV.D.4.A.(4). THESE INSPECTIONS MUST BE CONDUCTED UNTIL NOTICE OF TERMINATION IS SUBMITTED.

(4) CERTIFIED PERSONNEL (PROVIDED BY THE PRIMARY PERMITEE) SHALL INSPECT AT LEAST ONCE PER MONTH DURING THE TERM OF THIS PERMIT (I.E., UNTIL NOTICE OF TERMINATION IS RECEIVED BY EPD) THE AREAS OF THE SITE THAT HAVE UNDERGONE FINAL STABILIZATION OR ESTABLISHED A CROP OF ANNUAL VEGETATION AND A SEEDING OF TARGET PERENNIALS APPROPRIATE FOR THE REGION. THESE AREAS SHALL BE INSPECTED FOR EVIDENCE OF, OR POTENTIAL FOR, POLLUTANTS ENTERING THE DRAINAGE SYSTEM AND THE RECEIVING WATER(S). EROSION AND SEDIMENT CONTROL MEASURES IDENTIFIED IN THE PLAN SHALL BE OBSERVED TO ENSURE THAT THEY ARE OPERATING CORRECTLY. WHERE DISCHARGE LOCATIONS OR POINTS ARE ACCESSIBLE, THEY SHALL BE INSPECTED TO ASCERTAIN WHETHER EROSION CONTROL MEASURES ARE EFFECTIVE IN PREVENTING SIGNIFICANT IMPACTS TO RECEIVING WATER(S)

(5) BASED ON THE RESULTS OF EACH INSPECTION, THE SITE DESCRIPTION AND THE POLLUTION PREVENTION AND CONTROL MEASURES IDENTIFIED IN THE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN, THE PLAN SHALL BE APPROVED AS APPROPRIATE, NOT LATER THAN SEVEN (7) CALENDAR DAYS FOLLOWING EACH INSPECTION. IMPLEMENTATION OF SUCH CHANGES SHALL BE MADE AS SOON AS PRACTICAL BUT IN NO CASE LATER THAN SEVEN (7) CALENDAR DAYS FOLLOWING EACH INSPECTION.

(6) A REPORT OF EACH INSPECTION THAT INCLUDES THE NAME(S) OF CERTIFIED PERSONNEL MAKING EACH INSPECTION, THE DATE(S) OF EACH INSPECTION, CONSTRUCTION PHASE (I.E., INITIAL, INTERMEDIATE OR FINAL), MAJOR OBSERVATIONS RELATING TO THE IMPLEMENTATION OF THE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN, AND ACTIONS TAKEN IN ACCORDANCE WITH PART IV.D.4.A.(5). OF PERMIT SHALL BE MADE AND RETAINED AT THE SITE OR BE READILY AVAILABLE AT A DESIGNATED ALTERNATE LOCATION UNTIL THE ENTIRE SITE OR PORTION OF A CONSTRUCTION PROJECT THAT HAS BEEN PHASED HAS UNDERGONE FINAL STABILIZATION AND A NOTICE OF TERMINATION IS SUBMITTED TO EPD. SUCH REPORTS SHALL BE READILY AVAILABLE BY END OF THE SECOND BUSINESS DAY AND/OR WORKING DAY AND SHALL IDENTIFY ALL INCIDENTS OF BEST MANAGEMENT PRACTICES THAT HAVE NOT BEEN PROPERLY INSTALLED AND/OR MAINTAINED AS DESCRIBED IN THE PLAN. WHERE THE REPORT DOES NOT IDENTIFY ANY INCIDENTS, THE INSPECTION REPORT SHALL CONTAIN A CERTIFICATION THAT THE BEST MANAGEMENT PRACTICES ARE IN COMPLIANCE WITH THE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN. THE REPORT SHALL BE SIGNED IN ACCORDANCE WITH PART V.G.2. OF THIS PERMIT.

30 SAMPLING REQUIREMENTS SHALL INCLUDE THE FOLLOWING.

(1) A USGS TOPOGRAPHIC MAP, A TOPOGRAPHIC MAP OR A DRAWING (REFERRED TO AS A TOPOGRAPHIC MAP) THAT IS A SCALE EQUAL TO OR MORE DETAILED THAN A 1:24000 MAP SHOWING THE LOCATION OF THE SITE OR THE STAND ALONE CONSTRUCTION: (A) THE LOCATION OF ALL PERENNIAL AND INTERMITTENT STREAMS AND OTHER WATER BODIES AS SHOWN ON A USGS TOPOGRAPHIC MAP, AND ALL OTHER PERENNIAL AND INTERMITTENT STREAMS AND OTHER WATER BODIES LOCATED DURING MANDATORY FIELD VERIFICATION, INTO WHICH THE STORM WATER IS DISCHARGED AND (B) THE RECEIVING WATER AND/OR OUTFALL SAMPLING LOCATIONS. WHEN THE PERMITEE HAS CHOSEN TO USE A USGS TOPOGRAPHIC MAP AND THE RECEIVING WATER(S) IS NOT SHOWN ON THE USGS TOPOGRAPHIC MAP, THE LOCATION OF THE RECEIVING WATER(S) MUST BE HAND-DRAWN ON THE USGS TOPOGRAPHIC MAP FROM WHERE THE STORM WATER(S) ENTERS THE RECEIVING WATER(S) TO THE POINT WHERE THE RECEIVING WATER(S) COMBINES WITH THE FIRST BLUE LINE STREAM SHOWN ON THE USGS TOPOGRAPHIC MAP.

(2) A WRITTEN NARRATIVE OF SITE SPECIFIC ANALYTICAL METHODS USED TO COLLECT, HANDLE AND ANALYZE THE SAMPLES INCLUDING QUALITY CONTROL/QUALITY ASSURANCE PROCEDURES. THIS NARRATIVE MUST INCLUDE PRECISE SAMPLING METHODOLOGY FOR EACH SAMPLING LOCATION;

(3) WHEN THE PERMITEE HAS DETERMINED THAT SOME OR ALL OUTFALLS WILL BE SAMPLED, A RATIONALE MUST BE INCLUDED ON THE PLAN FOR THE NTU LIMIT(S) SELECTED FROM APPENDIX B. THIS RATIONALE MUST INCLUDE THE SIZE OF THE CONSTRUCTION SITE, THE CALCULATION OF THE SIZE OF THE SURFACE WATER DRAINAGE AREA, AND THE TYPE OF RECEIVING WATER(S) (I.E., TROUT STREAM OR SUPPORTING WARM WATER FISHERIES); AND

(4) ANY ADDITIONAL INFORMATION EPD DETERMINES NECESSARY TO BE PART OF THE PLAN. EPD WILL PROVIDE WRITTEN NOTICE TO THE PERMITEE OF THE INFORMATION NECESSARY AND THE TIME LINE FOR SUBMITTAL.

(5) ALL SAMPLING PURSUANT TO THIS PERMIT MUST BE DONE IN SUCH A WAY (INCLUDING GENERALLY ACCEPTED SAMPLING METHODS, LOCATIONS, TIMING, AND FREQUENCY) AS TO ACCURATELY REFLECT WHETHER STORM WATER RUNOFF FROM THE CONSTRUCTION SITE IS IN COMPLIANCE WITH THE STANDARD SET FORTH IN PARTS III.D.3. OR III.D.4., WHICHEVER IS APPLICABLE.

SAMPLING FREQUENCY (1) THE PRIMARY PERMITEE MUST SAMPLE IN ACCORDANCE WITH THE PLAN AT LEAST ONCE FOR EACH RAINFALL EVENT DESCRIBED BELOW. FOR THE QUALIFYING EVENT, THE PERMITEE SHALL SAMPLE AS SOON AS AT THE BEGINNING OF ANY STORM WATER DISCHARGE TO A MONITORED RECEIVING WATER AND/OR FROM A MONITORED OUTFALL LOCATION WITHIN FORTY-FIVE (45) MINUTES OR AS SOON AS POSSIBLE.

(2) HOWEVER, WHERE MANUAL AND AUTOMATIC SAMPLING ARE IMPOSSIBLE (AS DEFINED IN THIS PERMIT), OR ARE BEYOND THE PERMITEE'S CONTROL, THE PERMITEE SHALL TAKE SAMPLES AS SOON AS POSSIBLE, BUT IN NO CASE MORE THAN TWELVE (12) HOURS AFTER THE BEGINNING OF THE STORM WATER DISCHARGE.

(3) SAMPLING BY THE PERMITEE SHALL OCCUR FOR THE FOLLOWING QUALIFYING EVENTS: (A) FOR EACH AREA OF THE SITE THAT DISCHARGES TO A RECEIVING WATER OR FROM AN OUTFALL, THE FIRST RAIN EVENT THAT REACHES OR EXCEEDS 0.5 INCH WITH A STORM WATER DISCHARGE THAT OCCURS DURING NORMAL BUSINESS HOURS AS DEFINED IN THEIR PERMIT AFTER ALL CLEARING AND GRUBBING OPERATIONS HAVE BEEN COMPLETED, BUT PRIOR TO THE COMPLETION OF MASS GRADING OPERATIONS, IN THE DRAINAGE AREA OF THE LOCATION SELECTED AS THE SAMPLING LOCATION;

(B) IN ADDITION TO (A) ABOVE, FOR EACH AREA OF THE SITE THAT DISCHARGES TO A RECEIVING WATER OR FROM AN OUTFALL, THE FIRST RAIN EVENT THAT REACHES OR EXCEEDS 0.5 INCH WITH A STORM WATER DISCHARGE THAT OCCURS DURING NORMAL BUSINESS HOURS AS DEFINED IN THIS

(C) IDEALLY THE SAMPLES SHOULD BE TAKEN FROM THE HORIZON AND VERTICAL CENTER OF THE RECEIVING WATER(S) OR THE STORM WATER OUTFALL CHANNEL(S).

(D) CARE SHOULD BE TAKEN TO AVOID STIRRING THE BOTTOM SEDIMENTS IN THE RECEIVING WATER(S) OR IN THE OUTFALL STORM WATER CHANNEL.

(E) THE SAMPLING CONTAINER SHOULD BE HELD SO THAT THE OPENING FACES UPSTREAM.

(F) THE SAMPLES SHOULD BE KEPT FREE OF FLOATING DEBRIS.

(G) PERMITEES DO NOT HAVE TO SAMPLE SHEETFLOW THAT FLOWS ONTO UNDISTURBED NATURAL AREAS OR AREAS STABILIZED BY THE PROJECT. FOR PURPOSES OF THIS SECTION, STABILIZED SHALL MEAN, FOR UNPAVED AREAS AND AREAS NOT COVERED BY PERMANENT STRUCTURES AND AREAS LOCATED OUTSIDE THE WASTE DISPOSAL LIMITS OF A LANDFILL CELL THAT HAS BEEN CERTIFIED BY EPD FOR WASTE DISPOSAL, 100% OF THE SOIL SURFACE IS UNIFORMLY COVERED IN PERMANENT VEGETATION WITH A DENSITY OF 70% OR GREATER, OR LANDSCAPED ACCORDING TO THE PLAN (UNIFORMLY COVERED WITH LANDSCAPING MATERIALS IN PLANNED LANDSCAPED AREAS), OR EQUIVALENT PERMANENT STABILIZATION MEASURES AS DEFINED IN THE MANUAL (EXCLUDING A CROP OF ANNUAL VEGETATION AND A SEEDING OF TARGET CROP PERENNIALS APPROPRIATE FOR THE REGION)

ES&PC ITEM# SAMPLE TYPE. ALL SAMPLING SHALL BE COLLECTED BY 'GRAB SAMPLES' AND THE ANALYSIS OF THESE SAMPLES MUST BE CONDUCTED IN ACCORDANCE WITH METHODOLOGY AND TEST PROCEDURES ESTABLISHED BY 40 CFR PART 136 (UNLESS OTHER TEST PROCEDURES HAVE BEEN APPROVED); THE GUIDANCE DOCUMENT TITLED 'NPDES STORM WATER SAMPLING GUIDANCE DOCUMENT, EPA 833-B-92-001' AND GUIDANCE DOCUMENTS THAT MAY BE PREPARED BY THE EPD.

(1) SAMPLE CONTAINERS SHOULD BE LABELED PRIOR TO COLLECTING THE SAMPLES.

(2) SAMPLES SHOULD BE WELL MIXED BEFORE TRANSFERRING TO A SECONDARY CONTAINER.

(3) LARGE MOUTH, WELL CLEANED AND RINSED GLASS OR PLASTIC JARS SHOULD BE USED FOR COLLECTING SAMPLES. THE JARS SHOULD BE CLEANED THOROUGHLY TO AVOID CONTAMINATION.

(4) MANUAL, AUTOMATIC OR RINSING STAGE SAMPLING MAY BE UTILIZED. SAMPLES REQUIRED BY THIS PERMIT SHOULD BE ANALYZED IMMEDIATELY, BUT IN NO CASE LATER THAN 48 HOURS AFTER COLLECTION. HOWEVER, SAMPLES FROM AUTOMATIC SAMPLERS MUST BE COLLECTED NO LATER THAN THE NEXT BUSINESS DAY AFTER THEIR ACCUMULATION, UNLESS FLOW THROUGH AUTOMATED ANALYSIS IS UTILIZED. IF AUTOMATIC SAMPLING IS UTILIZED AND THE AUTOMATIC SAMPLER IS NOT ACTIVATED DURING THE QUALIFYING EVENT, THE PERMITEE MUST UTILIZE MANUAL SAMPLING OR RINSING STAGE SAMPLING DURING THE NEXT QUALIFYING EVENT. DILUTION OF SAMPLES IS NOT REQUIRED. SAMPLES MAY BE ANALYZED DIRECTLY WITH A PROPERLY CALIBRATED TURBIDIMETER. SAMPLES ARE NOT REQUIRED TO BE COOLED.

(5) SAMPLING AND ANALYSIS OF THE RECEIVING WATER(S) OR OUTFALLS BEYOND THE MINIMUM FREQUENCY STATED IN THIS PERMIT MUST BE REPORTED TO EPD AS SPECIFIED IN PART IV.E.

SAMPLING POINTS. (1) FOR CONSTRUCTION ACTIVITIES THE PRIMARY PERMITEE MUST SAMPLE ALL RECEIVING WATER(S), OR ALL OUTFALL(S), OR A COMBINATION OF RECEIVING WATER(S) AND OUTFALL(S). SAMPLES TAKEN FOR THE PURPOSE OF COMPLIANCE WITH THIS PERMIT SHALL BE REPRESENTATIVE OF THE MONITORED ACTIVITY AND REPRESENTATIVE OF THE WATER QUALITY OF THE RECEIVING WATER(S) AND/OR THE STORM WATER OUTFALLS USING THE FOLLOWING MINIMUM GUIDELINES:

(A) THE UPSTREAM SAMPLE FOR EACH RECEIVING WATER(S) MUST BE TAKEN IMMEDIATELY UPSTREAM OF THE CONFLUENCE OF THE FIRST STORM WATER DISCHARGE FROM THE PERMITTED ACTIVITY (I.E., THE DISCHARGE FROM THE FARTHEST UPSTREAM AT THE SITE) BUT DOWNSTREAM OF ANY OTHER STORM WATER DISCHARGES NOT ASSOCIATED WITH THE PERMITTED ACTIVITY. WHERE APPROPRIATE, SEVERAL UPSTREAM SAMPLES FROM ACROSS THE RECEIVING WATER(S) MAY NEED TO BE TAKEN AND THE ARITHMETIC AVERAGE OF THE TURBIDITY OF THESE SAMPLES USED FOR THE UPSTREAM TURBIDITY VALUE.

(B) THE DOWNSTREAM SAMPLE FOR EACH RECEIVING WATER(S) MUST BE TAKEN DOWNSTREAM OF THE CONFLUENCE OF THE LAST STORM WATER DISCHARGE FROM THE PERMITTED ACTIVITY (I.E., THE DISCHARGE FARTHEST DOWNSTREAM AT THE SITE) BUT UPSTREAM OF ANY OTHER STORM WATER DISCHARGE NOT ASSOCIATED WITH THE PERMITTED ACTIVITY. WHERE APPROPRIATE, SEVERAL DOWNSTREAM SAMPLES FROM ACROSS THE RECEIVING WATER(S) MAY NEED TO BE TAKEN AND THE ARITHMETIC AVERAGE OF THE TURBIDITY OF THESE USED FOR THE DOWNSTREAM TURBIDITY VALUE.

(C) IDEALLY THE SAMPLES SHOULD BE TAKEN FROM THE HORIZON AND VERTICAL CENTER OF THE RECEIVING WATER(S) OR THE STORM WATER OUTFALL CHANNEL(S).

(D) CARE SHOULD BE TAKEN TO AVOID STIRRING THE BOTTOM SEDIMENTS IN THE RECEIVING WATER(S) OR IN THE OUTFALL STORM WATER CHANNEL.

(E) THE SAMPLING CONTAINER SHOULD BE HELD SO THAT THE OPENING FACES UPSTREAM.

(F) THE SAMPLES SHOULD BE KEPT FREE OF FLOATING DEBRIS.

(G) PERMITEES DO NOT HAVE TO SAMPLE SHEETFLOW THAT FLOWS ONTO UNDISTURBED NATURAL AREAS OR AREAS STABILIZED BY THE PROJECT. FOR PURPOSES OF THIS SECTION, STABILIZED SHALL MEAN, FOR UNPAVED AREAS AND AREAS NOT COVERED BY PERMANENT STRUCTURES AND AREAS LOCATED OUTSIDE THE WASTE DISPOSAL LIMITS OF A LANDFILL CELL THAT HAS BEEN CERTIFIED BY EPD FOR WASTE DISPOSAL, 100% OF THE SOIL SURFACE IS UNIFORMLY COVERED IN PERMANENT VEGETATION WITH A DENSITY OF 70% OR GREATER, OR LANDSCAPED ACCORDING TO THE PLAN (UNIFORMLY COVERED WITH LANDSCAPING MATERIALS IN PLANNED LANDSCAPED AREAS), OR EQUIVALENT PERMANENT STABILIZATION MEASURES AS DEFINED IN THE MANUAL (EXCLUDING A CROP OF ANNUAL VEGETATION AND A SEEDING OF TARGET CROP PERENNIALS APPROPRIATE FOR THE REGION)

SAMPLING FREQUENCY (1) THE PRIMARY PERMITEE MUST SAMPLE IN ACCORDANCE WITH THE PLAN AT LEAST ONCE FOR EACH RAINFALL EVENT DESCRIBED BELOW. FOR THE QUALIFYING EVENT, THE PERMITEE SHALL SAMPLE AS SOON AS AT THE BEGINNING OF ANY STORM WATER DISCHARGE TO A MONITORED RECEIVING WATER AND/OR FROM A MONITORED OUTFALL LOCATION WITHIN FORTY-FIVE (45) MINUTES OR AS SOON AS POSSIBLE.

(2) HOWEVER, WHERE MANUAL AND AUTOMATIC SAMPLING ARE IMPOSSIBLE (AS DEFINED IN THIS PERMIT), OR ARE BEYOND THE PERMITEE'S CONTROL, THE PERMITEE SHALL TAKE SAMPLES AS SOON AS POSSIBLE, BUT IN NO CASE MORE THAN TWELVE (12) HOURS AFTER THE BEGINNING OF THE STORM WATER DISCHARGE.

(3) SAMPLING BY THE PERMITEE SHALL OCCUR FOR THE FOLLOWING QUALIFYING EVENTS: (A) FOR EACH AREA OF THE SITE THAT DISCHARGES TO A RECEIVING WATER OR FROM AN OUTFALL, THE FIRST RAIN EVENT THAT REACHES OR EXCEEDS 0.5 INCH WITH A STORM WATER DISCHARGE THAT OCCURS DURING NORMAL BUSINESS HOURS AS DEFINED IN THEIR PERMIT AFTER ALL CLEARING AND GRUBBING OPERATIONS HAVE BEEN COMPLETED, BUT PRIOR TO THE COMPLETION OF MASS GRADING OPERATIONS, IN THE DRAINAGE AREA OF THE LOCATION SELECTED AS THE SAMPLING LOCATION;

(B) IN ADDITION TO (A) ABOVE, FOR EACH AREA OF THE SITE THAT DISCHARGES TO A RECEIVING WATER OR FROM AN OUTFALL, THE FIRST RAIN EVENT THAT REACHES OR EXCEEDS 0.5 INCH WITH A STORM WATER DISCHARGE THAT OCCURS DURING NORMAL BUSINESS HOURS AS DEFINED IN THIS

(C) IDEALLY THE SAMPLES SHOULD BE TAKEN FROM THE HORIZON AND VERTICAL CENTER OF THE RECEIVING WATER(S) OR THE STORM WATER OUTFALL CHANNEL(S).

(D) CARE SHOULD BE TAKEN TO AVOID STIRRING THE BOTTOM SEDIMENTS IN THE RECEIVING WATER(S) OR IN THE OUTFALL STORM WATER CHANNEL.

(E) THE SAMPLING CONTAINER SHOULD BE HELD SO THAT THE OPENING FACES UPSTREAM.

(F) THE SAMPLES SHOULD BE KEPT FREE OF FLOATING DEBRIS.

(G) PERMITEES DO NOT HAVE TO SAMPLE SHEETFLOW THAT FLOWS ONTO UNDISTURBED NATURAL AREAS OR AREAS STABILIZED BY THE PROJECT. FOR PURPOSES OF THIS SECTION, STABILIZED SHALL MEAN, FOR UNPAVED AREAS AND AREAS NOT COVERED BY PERMANENT STRUCTURES AND AREAS LOCATED OUTSIDE THE WASTE DISPOSAL LIMITS OF A LANDFILL CELL THAT HAS BEEN CERTIFIED BY EPD FOR WASTE DISPOSAL, 100% OF THE SOIL SURFACE IS UNIFORMLY COVERED IN PERMANENT VEGETATION WITH A DENSITY OF 70% OR GREATER, OR LANDSCAPED ACCORDING TO THE PLAN (UNIFORMLY COVERED WITH LANDSCAPING MATERIALS IN PLANNED LANDSCAPED AREAS), OR EQUIVALENT PERMANENT STABILIZATION MEASURES AS DEFINED IN THE MANUAL (EXCLUDING A CROP OF ANNUAL VEGETATION AND A SEEDING OF TARGET CROP PERENNIALS APPROPRIATE FOR THE REGION)

ES&PC ITEM# PERMIT EITHER 90 DAYS AFTER THE FIRST SAMPLING EVENT OR AFTER ALL MASS GRADING OPERATIONS HAVE BEEN COMPLETED, BUT PRIOR TO SUBMITTAL OF A NOT, IN THE DRAINAGE AREA OF THE LOCATION SELECTED AS THE SAMPLING LOCATION, WHICHEVER COMES FIRST;

(C) AT THE TIME OF SAMPLING PERFORMED PURSUANT TO (A) AND (B) ABOVE, IF BMPS IN ANY AREA OF THE SITE THAT DISCHARGES TO A RECEIVING WATER OR FROM AN OUTFALL ARE NOT PROPERLY DESIGNED, INSTALLED AND MAINTAINED, CORRECTIVE ACTION SHALL BE DEFINED AND IMPLEMENTED WITHIN TWO (2) BUSINESS DAYS. AND TURBIDITY SAMPLES SHALL BE TAKEN FROM DISCHARGES FROM THAT AREA OF THE SITE FOR EACH SUBSEQUENT RAIN EVENT THAT REACHES OR EXCEEDS 0.5 INCH DURING NORMAL BUSINESS HOURS\* UNTIL THE SELECTED TURBIDITY STANDARD IS ATTAINED, OR UNTIL POST-STORM EVENT INSPECTIONS DETERMINE THE BMPS ARE PROPERLY DESIGNED, INSTALLED AND MAINTAINED;

(D) WHERE SAMPLING PURSUANT TO (A), (B), OR (C) ABOVE IS REQUIRED BUT NOT POSSIBLE (OR NOT REQUIRED BECAUSE THERE WAS NO DISCHARGE), THE PERMITEE, IN ACCORDANCE WITH PART IV.D.4.A.(6), MUST INCLUDE A WRITTEN JUSTIFICATION IN THE INSPECTION REPORT OF WHY SAMPLING WAS NOT PERFORMED. PROVIDING THIS JUSTIFICATION DOES NOT RELIEVE THE PERMITEE OF ANY SUBSEQUENT SAMPLING OBLIGATIONS UNDER (A), (B) OR (C) ABOVE; AND

(E) EFFECTIVE CONSTRUCTION ACTIVITIES, I.E. THOSE THAT ARE OCCURRING ON OR BEFORE THE EXISTING DATE OF THIS PERMIT, THAT HAVE MET THE SAMPLING REQUIRED BY (A) ABOVE SHALL SAMPLE IN ACCORDANCE WITH (B). THOSE EXISTING CONSTRUCTION ACTIVITIES THAT HAVE MET THE SAMPLING REQUIRED BY (B) ABOVE SHALL NOT BE REQUIRED TO CONDUCT ADDITIONAL SAMPLING OTHER THAN AS REQUIRED BY (C) ABOVE.

\*NOTE THAT THE PERMITEE MAY CHOOSE TO MEET THE REQUIREMENTS OF (A) AND (B) ABOVE BY COLLECTING TURBIDITY SAMPLES FROM ANY RAIN EVENT THAT REACHES OR EXCEEDS 0.5 INCH AND ALLOWS FOR SAMPLING AT ANY TIME OF DAY OR WEEK.

REPORTING. 1. THE APPLICABLE PERMITEES ARE REQUIRED TO SUBMIT THE SAMPLING RESULTS TO THE EPD AT THE ADDRESS SHOWN IN PART II.C. BY THE FIFTEENTH DAY OF THE MONTH FOLLOWING THE REPORTING PERIOD. REPORTING PERIODS ARE MONTHS DURING WHICH SAMPLES ARE TAKEN IN ACCORDANCE WITH THIS PERMIT. SAMPLING RESULTS SHALL BE IN A CLEARLY LEGIBLE FORMAT. UPON WRITTEN NOTIFICATION, EPD MAY REQUIRE THE APPLICABLE PERMITEE TO SUBMIT THE SAMPLING RESULTS ON A MORE FREQUENT BASIS. SAMPLING AND ANALYSIS OF ANY STORM WATER DISCHARGE(S) OR THE RECEIVING WATER(S) BEYOND THE MINIMUM FREQUENCY STATED IN THE PERMIT MUST BE REPORTED IN A SIMILAR MANNER TO THE EPD. THE SAMPLING REPORTS MUST BE SIGNED IN ACCORDANCE WITH PART V.G.2. SAMPLING REPORTS MUST BE SUBMITTED TO EPD UNTIL SUCH TIME AS A NOT IS SUBMITTED IN ACCORDANCE WITH PART VI.

2. ALL SAMPLING REPORTS SHALL INCLUDE THE FOLLOWING INFORMATION: a. THE RAINFALL AMOUNT, DATE, EXACT PLACE AND TIME OF SAMPLING OR MEASUREMENTS; b. THE NAME(S) OF THE CERTIFIED PERSONNEL WHO PERFORMED THE SAMPLING AND MEASUREMENTS; c. THE DATE(S) ANALYSES WERE PERFORMED; d. THE TIME ANALYSES WERE INITIATED; e. THE NAME(S) OF THE CERTIFIED PERSONNEL WHO PERFORMED THE ANALYSES; f. REFERENCES AND WRITTEN PROCEDURES, WHEN AVAILABLE, FOR ANALYTICAL TECHNIQUES OR METHODS USED; g. THE RESULTS OF SUCH ANALYSES, INCLUDING THE BENCH SHEETS, INSTRUMENT READOUTS, COMPUTER DISKS OR TAPES, ETC., USED TO DETERMINE THESE RESULTS; h. RESULTS WHICH EXCEED 1000TU SHALL BE REPORTED AS 'EXCEEDS 1000 NTU'; AND i. CERTIFICATION STATEMENT THAT SAMPLING WAS CONDUCTED AS PER THE PLAN.

3. ALL WRITTEN CORRESPONDENCE REQUIRED BY THE PERMIT SHALL BE SUBMITTED BY RETURN RECEIPT CERTIFIED MAIL (OR SIMILAR SERVICE) TO THE APPROPRIATE DISTRICT OFFICE OF THE EPD ACCORDING TO THE SCHEDULE IN APPENDIX C OF THIS PERMIT. THE PERMITEE SHALL RETAIN A COPY OF THE PROOF OF SUBMITTAL AT THE CONSTRUCTION SITE OR THE PROOF OF SUBMITTAL SHALL BE READILY AVAILABLE AT A DESIGNATED LOCATION FROM COMMENCEMENT OF CONSTRUCTION UNTIL SUCH TIME AS A NOT IS SUBMITTED IN ACCORDANCE WITH PART VI. IF AN ELECTRONIC SUBMITTAL IS PROVIDED BY EPD THEN THE WRITTEN CORRESPONDENCE MAY BE SUBMITTED ELECTRONICALLY; IF REQUIRED, A PAPER COPY MUST ALSO BE SUBMITTED BY RETURN RECEIPT CERTIFIED MAIL OR SIMILAR SERVICE.

31 RETENTION RECORDS 1. THE PRIMARY PERMITEE SHALL RETAIN THE FOLLOWING RECORDS AT THE CONSTRUCTION SITE OR THE RECORDS SHALL BE READILY AVAILABLE AT A DESIGNATED ALTERNATE LOCATION FROM COMMENCEMENT OF CONSTRUCTION UNTIL SUCH TIME AS A NOT IS SUBMITTED IN ACCORDANCE WITH PART VI:

a. A COPY OF ALL NOTICES OF INTENT SUBMITTED TO EPD; b. A COPY OF THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN REQUIRED BY THE PERMIT; c. THE DESIGN PROFESSIONAL'S REPORT OF THE RESULTS OF THE INSPECTION CONDUCTED IN ACCORDANCE WITH PART V.A.5. OF THE PERMIT; d. A COPY OF ALL SAMPLING INFORMATION, RESULTS, AND REPORTS REQUIRED BY THIS PERMIT; e. A COPY OF ALL INSPECTION REPORTS GENERATED IN ACCORDANCE WITH PART IV.D.4.A. OF THIS PERMIT; f. A COPY OF ALL VIOLATION SUMMARIES AND VIOLATION SUMMARY REPORTS GENERATED IN ACCORDANCE WITH PART V.A.5. OF THIS PERMIT; AND g. DAILY RAINFALL INFORMATION COLLECTED IN ACCORDANCE WITH PART IV.D.4.A.(2). OF THIS PERMIT.

2. COPIES OF ALL NOTICES OF INTENT, NOTICES OF TERMINATION, INSPECTION REPORTS, SAMPLING REPORTS (INCLUDING ALL CALIBRATION AND MAINTENANCE RECORDS AND ALL ORIGINAL STRIP CHART RECORDINGS FOR CONTINUOUS MONITORING INSTRUMENTATION) OR OTHER REPORTS REQUESTED BY THE EPD, EROSION, SEDIMENTATION AND POLLUTION CONTROL PLANS, RECORDS OF ALL DATA USED TO COMPLETE THE NOTICE OF INTENT TO BE COVERED BY THIS PERMIT AND ALL OTHER RECORDS REQUIRED BY THIS PERMIT SHALL BE RETAINED BY THE PERMITEE WHO EITHER PRODUCED OR USED IT FOR A PERIOD OF AT LEAST THREE YEARS FROM THE DATE THAT THE NOT IS SUBMITTED IN ACCORDANCE WITH PART VI. OF THIS PERMIT. THESE RECORDS MUST BE MAINTAINED AT THE PERMITEE'S PRIMARY PLACE OF BUSINESS OR AT A DESIGNATED ALTERNATE LOCATION ONCE THE CONSTRUCTION ACTIVITY HAS CEASED AT THE PERMITTED SITE. THIS PERIOD MAY BE EXTENDED BY REQUEST OF THE EPD AT ANY TIME UPON WRITTEN NOTIFICATION TO THE PERMITEE.

32/33 SAMPLE ANALYSIS STORMWATER SAMPLES ARE TO BE ANALYZED IN ACCORDANCE WITH METHODOLOGY AND TEST PROCEDURES ESTABLISHED BY 40 CFR PART 136 AND THE GUIDANCE DOCUMENT TITLED 'NPDES STORMWATER SAMPLING GUIDANCE DOCUMENT, EPA 833-B-92-001.'

STORMWATER IS TO BE SAMPLED FOR NEPHELOMETRIC TURBIDITY UNITS (NTU) AT THE OUTFALL LOCATION. A DISCHARGE OF STORMWATER RUNOFF FROM DISTURBED AREAS WHERE BEST MANAGEMENT PRACTICES HAVE NOT BEEN PROPERLY DESIGNED, INSTALLED, AND MAINTAINED SHALL CONSTITUTE A SEPARATE VIOLATION FOR EACH DAY ON WHICH SUCH CONDITION RESULTS IN THE TURBIDITY OF THE DISCHARGE EXCEEDING 75. THE VALUE THAT WAS SELECTED FROM APPENDIX B IN PERMIT NO. GAR 100001. THE NTU IS BASED UPON THE DISTURBED ACREAGE OF 4.15 ACRES FOR THE PROJECT SITE, THE SURFACE WATER DRAINAGE AREA OF 0.008 SQUARE MILES, AND RECEIVING WATER WHICH SUPPORTS WARM WATER FISHERIES.

44 RUNOFF COEFFICIENT • WEIGHTED PRE-CONSTRUCTION CN CURVE NUMBER: 74 25-YEAR EVENT RUNOFF ESTIMATE: 11.83 CFS • WEIGHTED POST-CONSTRUCTION CN CURVE NUMBER: 84 25-YEAR EVENT RUNOFF ESTIMATE: 2.1 CFS

48 SEDIMENT STORAGE CALCULATIONS: BASIN DISTURBED AREA, A REQUIRED STORAGE VOLUME, SvR, (A\*67cy) STORAGE METHOD STORAGE PROVIDED STORAGE VOLUME, SVA. REQUIREMENT MET? 1 4.15ac 278.1 CY EXISTING SEDIMENT POND 31,770(±)CY YES

TENTATIVE ACTIVITY SCHEDULE table with columns for MONTH 1 through MONTH 11 and rows for CONSTRUCTION EXIT, SILT FENCING AND OTHER E&SC PRACTICES, CLEARING AND GRUBBING, DISTURBED AREA STABILIZATION (WITH TEMPORARY SEEDING) [Ds2], FINE GRADING AND PAVING, BUILDING CONSTRUCTION, DISTURBED AREA STABILIZATION (WITH PERMANENT VEGETATION) [Ds3], LANDSCAPE INSTALLATION, and MAINTAIN ES & PC BMPs.

28

REVISIONS table with columns for NO., DATE, and DESCRIPTION.

MAU PIN engineering logo and address: 114 W. 42nd STREET • SAVANNAH, GA 31401 C: 912 235 2915

EROSION CONTROL GENERAL NOTES SAPP TOWING logo and vertical text.

LEVEL II E&S GEORGIA REGISTERED PROFESSIONAL ENGINEER W. A. MAUPIN No. 23758 CERT. #21051 EXP: 10/31/2018 STATUS:

RELEASED FOR PERMITTING DRWN: BPM 10-16-2017 CHK'D: JAM DATE

SHEET NO. D.1 516-17-01 PROJECT NO.



# UNIFORM CODING SYSTEM

## FOR SOIL EROSION AND SEDIMENT CONTROL PRACTICES

### GEORGIA SOIL AND WATER CONSERVATION COMMISSION

#### STRUCTURAL PRACTICES

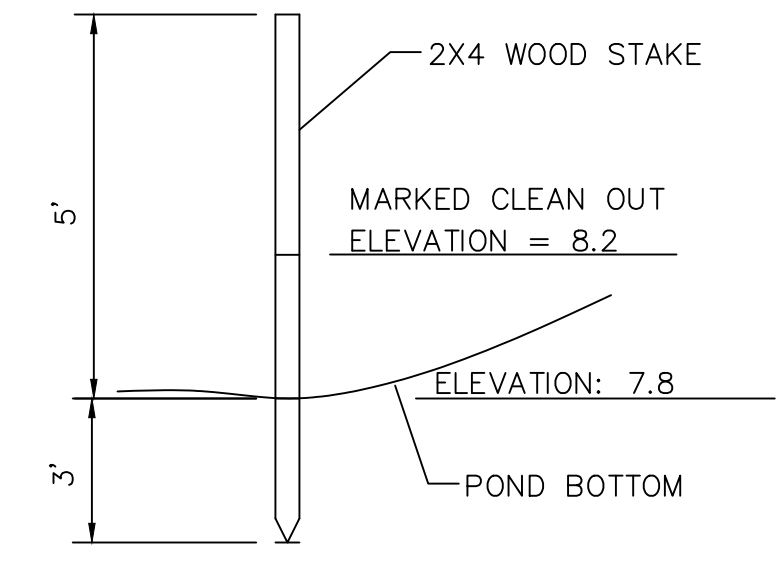
CODE	PRACTICE	DETAIL	MAP SYMBOL	DESCRIPTION
Cd	CHECKDAM			A small temporary barrier or dam constructed across a swale, drainage ditch or area of concentrated flow.
Ch	CHANNEL STABILIZATION			Improving, constructing or stabilizing an open channel, existing stream, or ditch.
Co	CONSTRUCTION EXIT			A crushed stone pad located at the construction site exit to provide a place for removing mud from tires thereby protecting public streets.
Cr	CONSTRUCTION STABILIZATION			A travelway constructed as part of a construction plan including access roads, subdivision roads, parking areas and other on-site vehicle transportation routes.
Dc	STREAM DIVERSION CHANNEL			A temporary channel constructed to convey flow around a construction site while a permanent structure is being constructed.
Di	DIVERSION			An earth channel or dike located above, below or across a slope to divert runoff. This may be a temporary or permanent structure.
Dn1	TEMPORARY DOWNDRAIN STRUCTURE			A flexible conduit of heavy-duty fabric or other material designed to safely conduct surface runoff down a slope. This is temporary and inexpensive.
Dn2	PERMANENT DOWNDRAIN STRUCTURE			A paved chute, pipe, sectional conduit or similar material designed to safely conduct surface runoff down a slope.
Fr	FILTER RING			A temporary stone barrier constructed at storm drain inlets and pond outlets.
Ga	GABION			Rock filter baskets which are hand-placed into position forming soil stabilizing structures.
Gr	GRADE STABILIZATION STRUCTURE			Permanent structures installed to protect channels or waterways where otherwise the slope would be sufficient for the running water to form gullies.
Lv	LEVEL SPREADER			A structure to convert concentrated flow of water into less erosive sheet flow. This should be constructed only on undisturbed soils.
Rd	ROCK FILTER DAM			A permanent or temporary stone filter dam installed across small streams or drainageways.
Re	RETAINING WALL			A wall installed to stabilize cut and fill slopes where maximum permissible slopes are not obtainable. Each situation will require special design.
Rt	RETRO FITTING			A device or structure placed in front of a permanent stormwater detention pond outlet structure to serve as a temporary sediment filter.
Sd1	SEDIMENT BARRIER			A barrier to prevent sediment from leaving the construction site. It may be sandbags, bales of straw or hay, brush, logs and poles, gravel, or a silt fence.
Sd2	INLET SEDIMENT TRAP			An impounding area created by excavating around a storm drain drop inlet. The excavated area will be filled and stabilized on completion of construction activities.
Sd3	TEMPORARY SEDIMENT BASIN			A basin created by excavation or a dam across a waterway. The surface water runoff is temporarily stored allowing the bulk of the sediment to drop out.
Sd4	TEMPORARY SEDIMENT TRAP			A small temporary pond that drains a disturbed area so that sediment can settle out. The principle feature distinguishing a temporary sediment trap from a temporary sediment basin is the lack of a pipe or riser.
Sk	FLOATING SURFACE SKIMMER			A buoyant device that releases/drains water from the surface of sediment ponds, traps, or basins at a controlled rate of flow.
Spb	SEEP BERM			Linear control device constructed as a diversion perpendicular to the direction of runoff to enhance dissipation and infiltration, while creating multiple sedimentation chambers with the employment of intermediate dikes.

#### STRUCTURAL PRACTICES

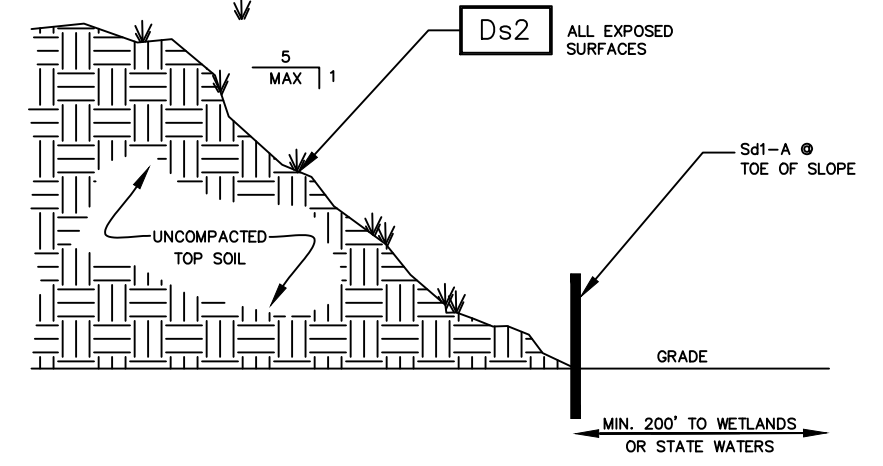
CODE	PRACTICE	DETAIL	MAP SYMBOL	DESCRIPTION
Sr	TEMPORARY STREAM CROSSING			A temporary bridge or culvert-type structure protecting a stream or watercourse from damage by crossing construction equipment.
St	STORMDRAIN OUTLET PROTECTION			A paved or short section of riprap channel at the outlet of a storm drain system preventing erosion from the concentrated runoff.
Su	SURFACE ROUGHENING			A rough soil surface with horizontal depressions on a contour or slopes left in a roughened condition after grading.
Tc	TURBIDITY CURTAIN			A floating or staked barrier installed within the water (it may also be referred to as a floating boom, silt barrier, or silt curtain).
Tp	TOPSOILING			The practice of stripping off the more fertile soil, storing it, then spreading it over the disturbed area after completion of construction activities.
Tr	TREE PROTECTION			To protect desirable trees from injury during construction activity.
Wt	VEGETATED WATERWAY OR STORMWATER CONVEYANCE CHANNEL			Paved or vegetative water outlets for diversions, terraces, berms, dikes or similar structures.

#### VEGETATIVE PRACTICES

CODE	PRACTICE	DETAIL	MAP SYMBOL	DESCRIPTION
Bf	BUFFER ZONE			Strip of undisturbed original vegetation, enhanced or restored existing vegetation or the reestablishment of vegetation surrounding an area of disturbance or bordering streams.
Cs	COASTAL DUNE STABILIZATION (WITH VEGETATION)			Planting vegetation on dunes that are denuded, artificially constructed, or re-nourished.
Ds1	DISTURBED AREA STABILIZATION (WITH MULCHING ONLY)			Establishing temporary protection for disturbed areas where seedlings may not have a suitable growing season to produce an erosion retarding cover.
Ds2	DISTURBED AREA STABILIZATION (WITH TEMP SEEDING)			Establishing a temporary vegetative cover with fast growing seedlings on disturbed areas.
Ds3	DISTURBED AREA STABILIZATION (WITH PERM SEEDING)			Establishing a permanent vegetative cover such as trees, shrubs, vines, grasses, or legumes on disturbed areas.
Ds4	DISTURBED AREA STABILIZATION (SODDING)			A permanent vegetative cover using sods on highly erodible or critically eroded lands.
Du	DUST CONTROL ON DISTURBED AREAS			Controlling surface and air movement of dust on construction site, roadways and similar sites.
Fl-Co	FLOCCULANTS AND COAGULANTS			Substance formulated to assist in the solids/liquid separation of suspended particles in solution.
Sb	STREAMBANK STABILIZATION (USING PERM VEGETATION)			The use of readily available native plant materials to maintain and enhance streambanks, or to prevent, or restore and repair small streambank erosion problems.
Ss	SLOPE STABILIZATION			A protective covering used to prevent erosion and establish temporary or permanent vegetation on steep slopes, shore lines, or channels.
Tac	TACKIFIERS AND BINDERS			Substance used to anchor straw or hay mulch by causing the organic material to bind together.

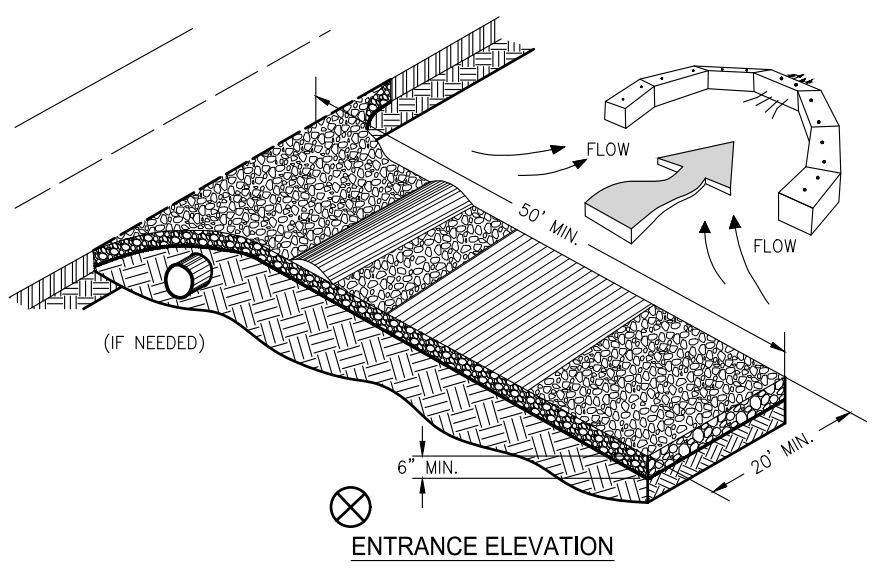


**SEDIMENT MARKER DETAIL**  
NOT TO SCALE



**TOP SOIL STOCKPILE**  
NOT TO SCALE

#### CRUSHED STONE CONSTRUCTION EXIT EXIT DIAGRAM

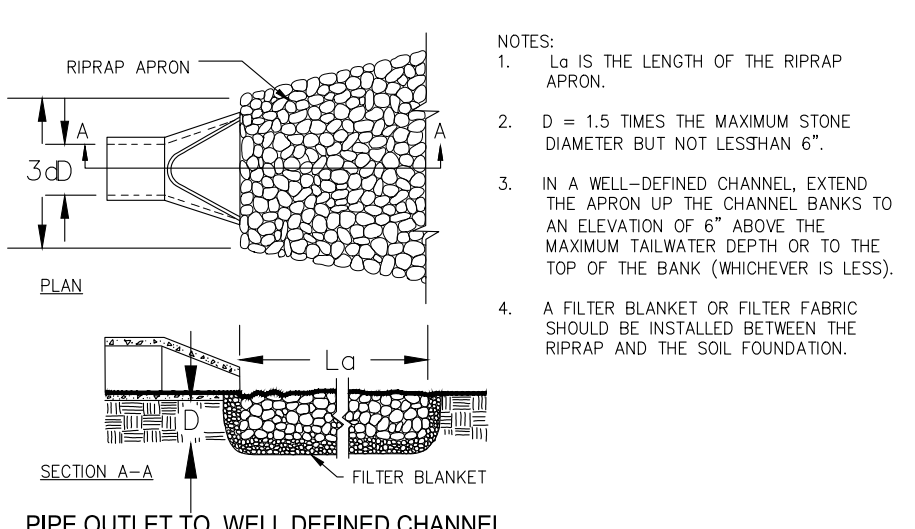


**ENTRANCE ELEVATION**

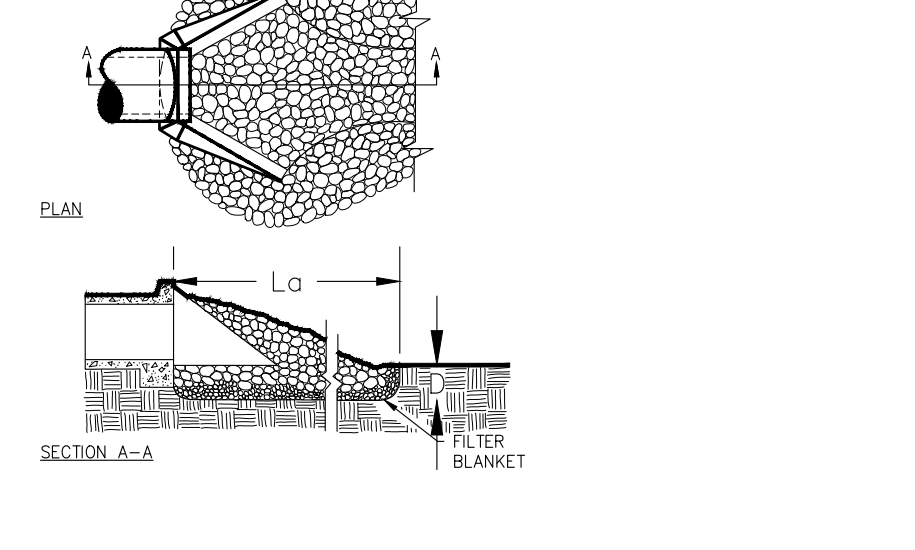
- NOTES:**
1. AVOID LOCATING ON STEEP SLOPES OR AT CURVES ON PUBLIC ROADS.
  2. REMOVE ALL VEGETATION AND OTHER UNSUITABLE MATERIAL FROM THE FOUNDATION AREA, GRADE, AND CROWN FOR POSITIVE DRAINAGE.
  3. AGGREGATE SIZE SHALL BE IN ACCORDANCE WITH NATIONAL STONE ASSOCIATION R-2 (1.5"-3.5" STONE).
  4. GRAVEL PAD SHALL HAVE A MINIMUM THICKNESS OF 6".
  5. PAD WIDTH SHALL BE EQUAL FULL WIDTH AT ALL POINTS OF VEHICULAR EGRESS, BUT NO LESS THAN 20'.
  6. A DIVERSION RIDGE SHOULD BE CONSTRUCTED WHEN GRADE TOWARD PAVED AREA IS GREATER THAN 2%.
  7. INSTALL PIPE UNDER THE ENTRANCE IF NEEDED TO MAINTAIN DRAINAGE DITCHES.
  8. WHEN WASHING IS REQUIRED, IT SHOULD BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE THAT DRAINS INTO AN APPROVED SEDIMENT TRAP OR SEDIMENT BASIN (OVERT ALL SURFACE RUNOFF AND DRAINAGE FROM THE ENTRANCE TO A SEDIMENT CONTROL DEVICE).
  9. WASHRACKS AND/OR TIRE WASHERS MAY BE REQUIRED DEPENDING ON SCALE AND CIRCUMSTANCE. IF NECESSARY, WASHRACK DESIGN MAY CONSIST OF ANY MATERIAL SUITABLE FOR TRUCK TRAFFIC THAT REMOVES MUD AND DEBT.
  10. MAINTAIN AREA IN A WAY THAT PREVENTS TRACKING AND/OR FLOW OF MUD ONTO PUBLIC RIGHTS-OF-WAYS. THIS MAY REQUIRE TOP DRESSING, REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT.

#### RIPRAP OUTLET PROTECTION

**PIPE OUTLET TO FLAT AREA - NO WELL DEFINED CHANNEL**

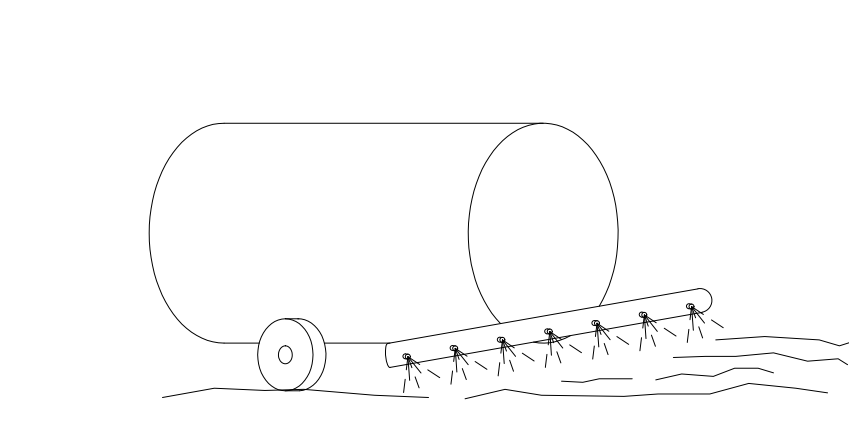
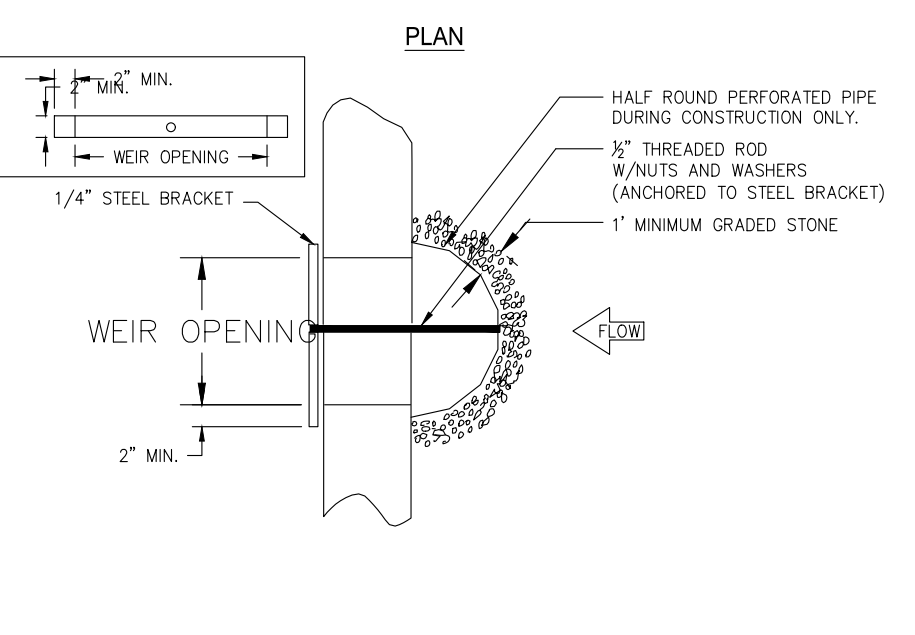
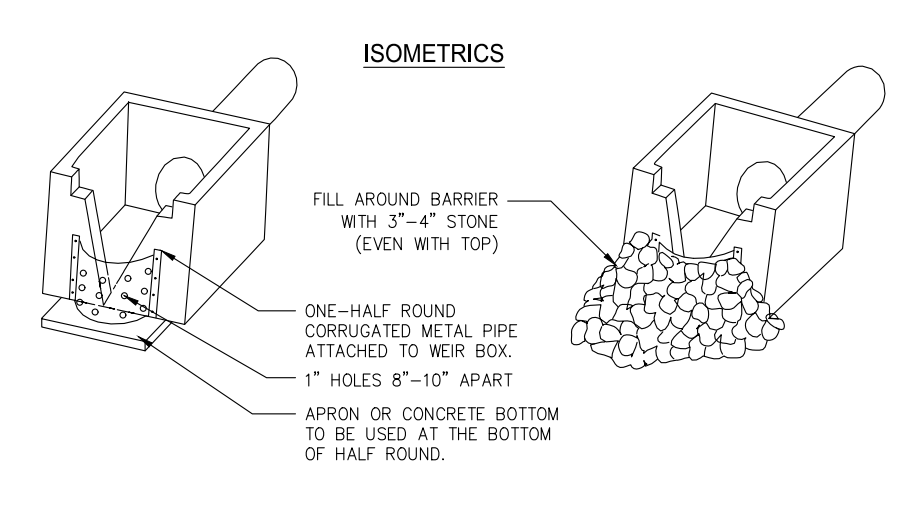


**PIPE OUTLET TO WELL DEFINED CHANNEL**



- NOTES:**
1. L<sub>0</sub> IS THE LENGTH OF THE RIPRAP APRON.
  2. D = 1.5 TIMES THE MAXIMUM STONE DIAMETER BUT NOT LESS THAN 6".
  3. IN A WELL-DEFINED CHANNEL, EXTEND THE APRON UP THE CHANNEL BANKS TO AN ELEVATION OF 6" ABOVE THE MAXIMUM TAILWATER DEPTH OR TO THE TOP OF THE BANK (WHICHEVER IS LESS).
  4. A FILTER BLANKET OR FILTER FABRIC SHOULD BE INSTALLED BETWEEN THE RIPRAP AND THE SOIL FOUNDATION.

#### PERFORATED HALF-ROUND PIPE WITH STONE FILTER

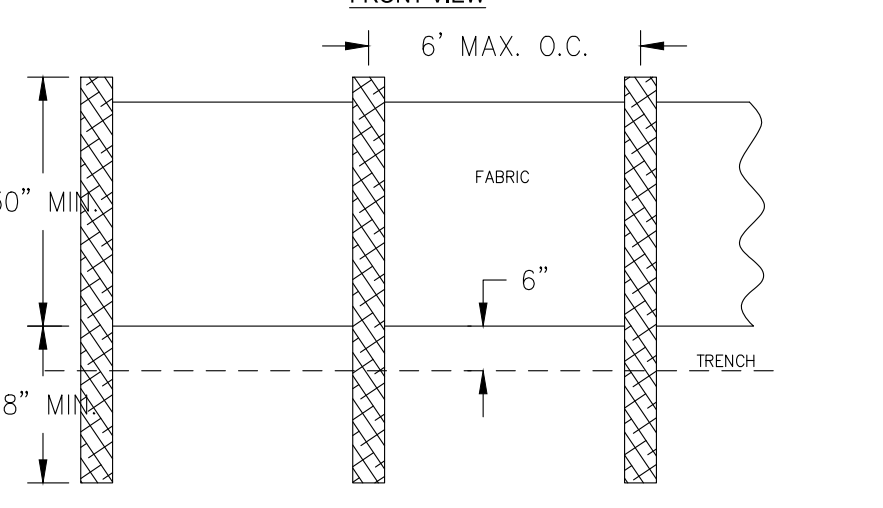
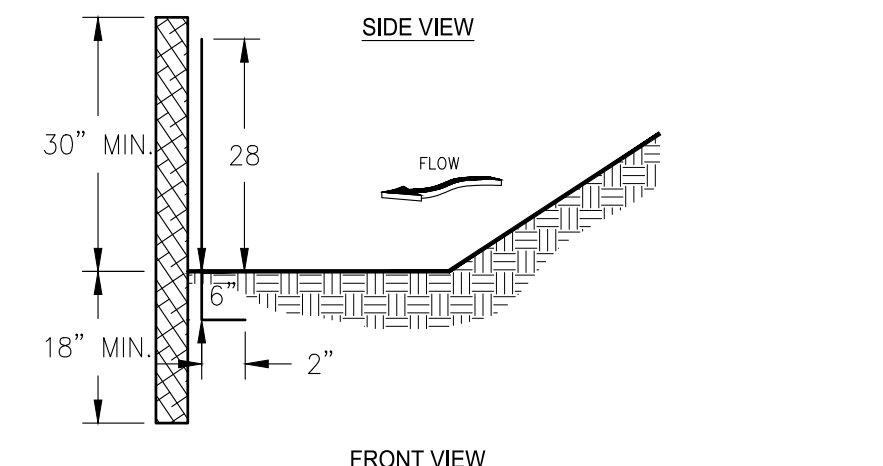


CONTRACTOR SHALL EMPLOY THE FOLLOWING TEMPORARY METHODS TO LIMIT THE SURFACE AND AIR MOVEMENT OF DUST FROM EXPOSED SOIL SURFACES:

- |                            |                            |
|----------------------------|----------------------------|
| <b>*TEMPORARY METHODS:</b> | <b>*PERMANENT METHODS:</b> |
| -MULCHES                   | -PERMANENT VEGETATION      |
| -SPRAY ON ADHESIVES        | -TOPSOIL                   |
| -TILLING                   | -STONE COVER               |
| -IRRIGATION                |                            |
| -BARRIERS                  |                            |
| -CALCIUM CHLORIDE          |                            |

*CHEMICAL CONTROL			
ADHESIVE	WATER DILUTION	TYPE OF NOZZLE	APPLICATION RATE (GAL/AC)
ANIOIC ASPHALT EMULSION	7:1	SPRAY	1200
LATEX EMULSION	12 1/2:1	FINE SPRAY	235
RESIN-IN-WATER EMULSION	4:1	FINE SPRAY	300

**DUST CONTROL ON DISTURBED AREAS** [Du]



- NOTES:**
1. USE STEEL OR WOOD POSTS OR AS SPECIFIED BY THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN.
  2. HEIGHT (H) IS TO BE SHOWN ON THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN.

**SILT FENCE - NON-SENSITIVE TYPE A (Sd1-NS)**

REVISIONS	DESCRIPTION
NO.	DATE

**MAUPIN**  
engineering

114 W. 42<sup>nd</sup> STREET • SAVANNAH, GA 31401  
O: 912 235 2915

**EROSION CONTROL DETAILS**

**SAPP TOWING**

LEVEL II E&S

**GEORGIA REGISTERED PROFESSIONAL ENGINEER**  
No. 23758  
W. A. MAUPIN

CERT. #21051 EXP: 10/31/2018

**RELEASED FOR PERMITTING**

DRWN: BPM 10-16-2017  
CHK'D: JAM DATE

20 0 40  
SCALE: 1" = 40'

SHEET NO.

**D.2**  
516-17-01

PROJECT NO.





**Planning Commission**  
305 South Coastal Highway  
Port Wentworth, GA 31407

Meeting: 12/11/17 06:30 PM  
Department: Public Services  
Category: Planning/Zoning Item  
Prepared By: Melanie Ellis  
Department Head: Brian Harvey

**SCHEDULED**

**AGENDA ITEM (ID # 1765)**

DOC ID: 1765

## **Site Plan Review Application submitted by Maupin Engineering, on behalf of Yash Desai for PIN #: 7-0906-04-029 (2 Magnolia Boulevard) for a Specific Development Site Plan to allow a Gas Station / Convenience Store with a Retail Space in a MPO (Master Plan Overlay) Zoning District**

**Issue/Item:** Site Plan Review Application submitted by Maupin Engineering, on behalf of Yash Desai for PIN #: 7-0906-04-029 (2 Magnolia Boulevard) for a Specific Development Site Plan to allow a Gas Station / Convenience Store with a Retail Space in a MPO (Master Plan Overlay) Zoning District

**Background:** The subject property is currently undeveloped land near the primary entrance of the Rice Hope Subdivision.

**Facts and Findings:** The applicant intends to construct a Gas Station / Convenience Store and Retail Space. The 4,000 square foot Convenience Store / Gas Pumps will be located on the Northern part of the lot. The 8,400 square foot Retail Space will be on the Southern part of the lot. This application is currently under technical review by City Engineers, Goodwyn, Mills, & Cawood.

**Funding: N/A**

**Recommendation:** The Planning Commission will hear this application on Monday, December 11, 2017 at 6:30PM.

**ATTACHMENTS:**

- PumpNGo 7-0906-04-029 Site Plan Application December 2017 (PDF)
- PumpNGo 1st review letter DECEMBER 2017 (PDF)
- PumpNGo 7-0906-04-029 Site Plan December 2017 (PDF)



140970

7.D.a

Received  
NOV 01 2017

City of Port Wentworth  
**Site Plan Review Application**

City of Port Wentworth

**Site Plan Application is required for all new construction in a "P" or "MPO" zone as defined in the Zoning Ordinance of the City of Port Wentworth.**

Name of Site Plan: PumpNGo - Rice Hope

Site Plan Address: 2 Magnolia Boulevard, Port Wentworth, Georgia 31407

PIN #: 7-0906-04-029 Zoning: MPO

Type of Construction: Commercial

Estimated Cost of Construction: \$ \_\_\_\_\_

Applicant's Name: Jay Maupin, PE / Maupin Engineering, Inc.

Address: 114 West 42nd Street, Savannah, Georgia, 31401

Phone #: 912-235-2915 Fax #: \_\_\_\_\_

Owner's Name (If Different from Applicant): Yash Desai

Address: 206 E. Victory Drive, Savannah GA 31405

Phone #: 912-398-0280 Fax #: \_\_\_\_\_

I hereby acknowledge that the above information is true and correct.

Yash Desai  
Applicant's Signature

10.11.17  
Date

Owner's Signature (If Different from Applicant)

Date

- Please submit the following with completed application:**
- 1. Name, address & PIN # for all adjacent property owners.**
  - 2. Fifteen (15) copies in 11"x17" or larger of your site plan & one 8.5"x11".**

Attachment: PumpNGo 7-0906-04-029 Site Plan Application December 2017 (1765 : Site Plan Review Application Pump-N-Go 7-0906-04-029

## Adjacent Property Owners List

### Pump N Go – Rice Hope (Pin: 7-0906-04-029):

**1. 124 GRAYS CREEK DRIVE**

SAVANNAH GA, 31410

PIN: 7-0906 -04-030

PIN: 7-0906-04-033

**2. BEP RICE HOPE LLC**

14 E STATE ST

SAVANNAH, GA 31401

PIN: 7-0906 -04-075

**3. M&M LEE LLC**

2612 WHATLEY AVE UNIT 9

SAVANNAH GA, 31404

PIN: 7-0906 -01-001B

**4. BEP RH TRACT 1 LLC**

14 E STATE ST

SAVANNAH GA, 31401-3713

PIN: 7-0906 -04-028

# City of Port Wentworth

## INVOICE #129

305 South Coastal Highway, Port Wentworth, Georgia 31407  
Phone 912-966-7427 Fax 912-966-3699 mellis@cityofportwentworth.com

Customer  
Yash Desai  
206 E. Victory Drive  
Savannah, GA 31405

Invoice Date 11/2/2017  
Sales Person Melanie Ellis  
Permit # 140970

Phone 912-398-0280  
Fax

**PAID**  
NOV 02 2017

Job	Payment Due	Payment Terms
Site Plan Application-7-0906-04-029		Due on Receipt

Product	Quantity	Unit Price	Line Total
ADMINISTRATIVE FEE	1	\$50.000	\$50.00
SITE PLAN/REVISION TO PUD (WITH LAND DISTURBANCE)	1	\$836.000	\$836.00

Products Total	\$886.00
<b>Invoice Total</b>	<b>\$886.00</b>

### Thank you for your business

City of Port Wentworth 305 South Coastal Highway, Port Wentworth, Georgia 31407  
Phone 912-966-7427 Fax 912-966-3699 mellis@cityofportwentworth.com

Attachment: PumpNGo 7-0906-04-029 Site Plan Application December 2017 (1765 : Site Plan Review Application Pump-N-Go 7-0906-04-029



**GARVIN AMUSEMENT & SERVICE LLC**  
 PH 912-695-1753  
 1113 E HWY 80 SUITE C  
 POOLER, GA 31322

1053  
38-2013/61

Date 10/16/17

Pay to the Order of City of Port Wentworth \$ 886.00

Eight hundred & Eighty Six and Dollars

**FCB**  
 FIRST CHATHAM BANK

For Shane L. [Signature]

⑆061220133⑆ 2191971 1053

Received  
 NOV 01 2017  
 City of Port Wentworth

Attachment: PumpNGo 7-0906-04-029 Site Plan Application December 2017 (1765 : Site Plan Review Application Pump-N-Go 7-0906-04-029

CITY OF PORT WENTWORTH  
(912) 964-4379

REC#: 00172495 11/02/2017 10:53 AM  
OPER: YI TERM: 003  
REF#: 1053

TRAN: 112.0000 BLDG PERMIT  
140970 886.00CR  
DESAI, YASH  
2 MAGNOLIA BLVD  
DEV-SPR 886.00CR

TENDERED: 886.00 CHECK  
APPLIED: 886.00-

CHANGE:                       
0.00

Attachment: PumpNGo 7-0906-04-



December 6, 2017

Mr. Brian Harvey  
Director of Development Services  
City of Port Wentworth  
305 South Coastal Highway  
Port Wentworth, GA 31407

RE: Pump-N-Go (1st Submittal)

Dear Mr. Harvey:

We have the initial submittal for the referenced project. Below are our comments.

- 1) Provide re-use system.
- 2) Comply with the Coastal Stormwater Supplement of the Georgia Stormwater Management Manual.

Let us know if there are questions.  
Sincerely,

**GOODWYN MILLS CAWOOD, INC.**

A handwritten signature in black ink, appearing to read 'J. Vaughn'.

James C. Vaughn, Jr., P.E.  
Project Manager

Cc: Maupin Engineering (via email)

Goodwyn Mills Cawood

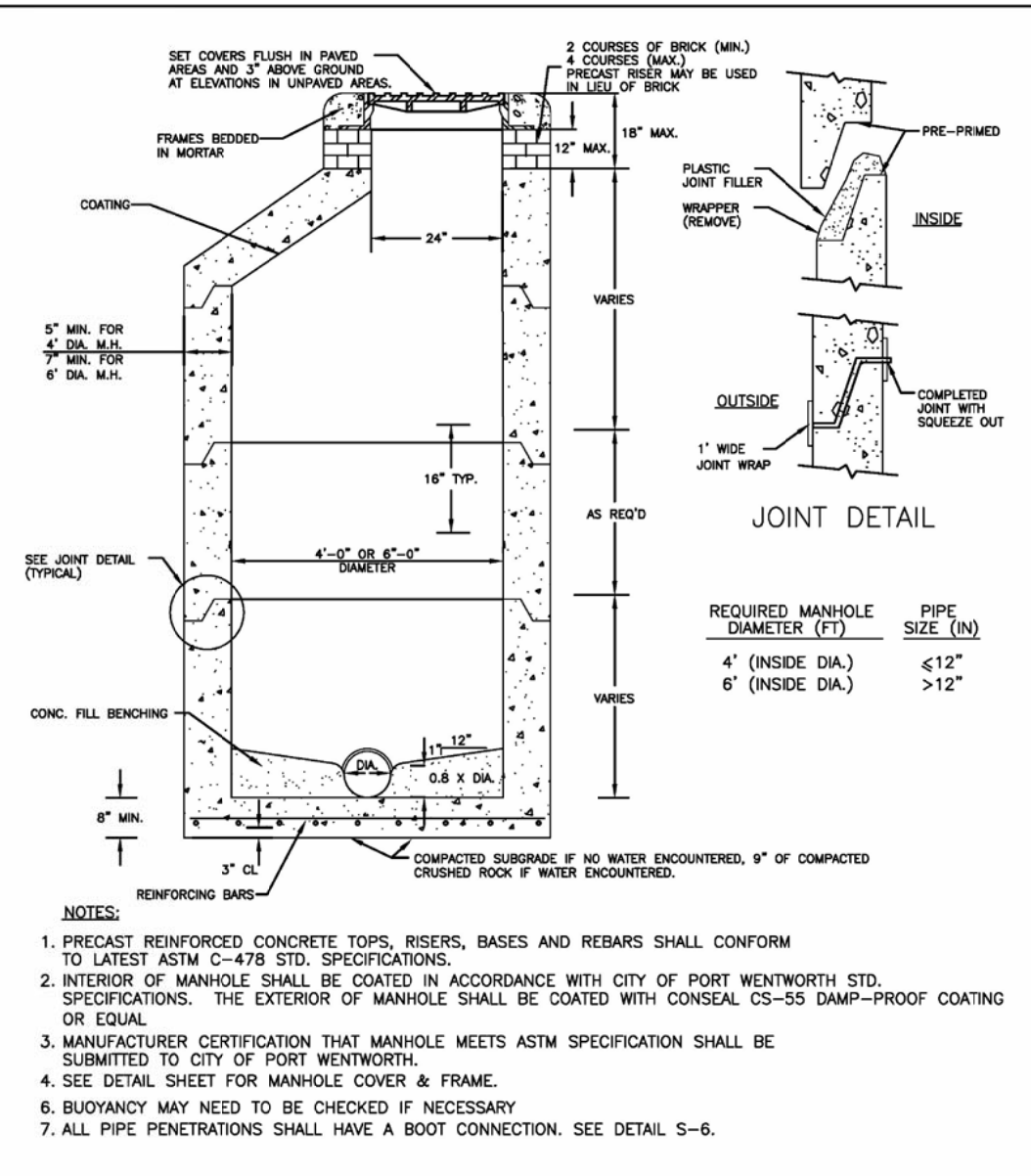
424 East Oglethorpe Avenue  
Savannah, GA 31401

T (912) 655-6790  
F (770) 955-1064

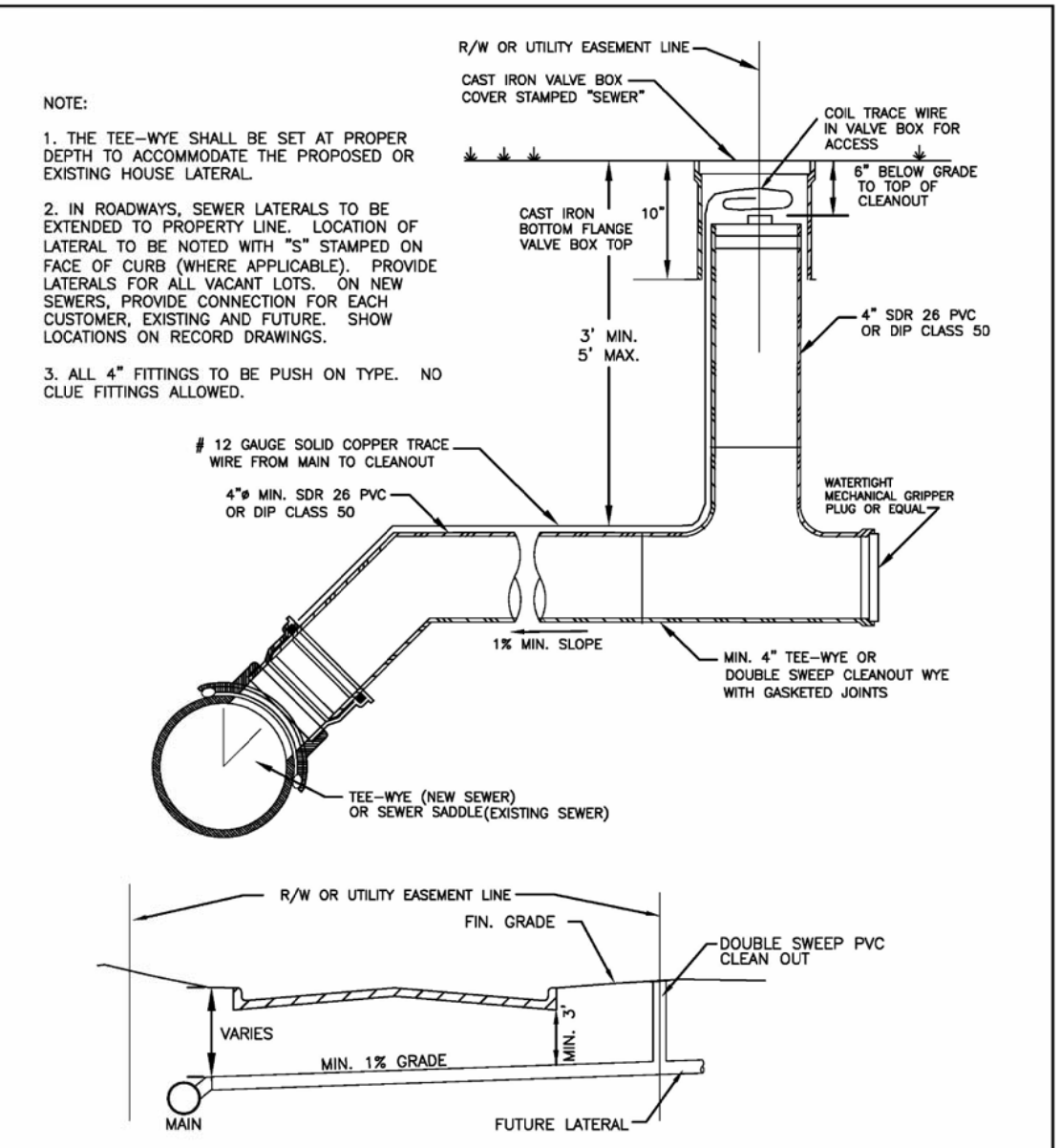
[www.gmcnetwork.com](http://www.gmcnetwork.com)

Attachment: PumpNGo 1st review letter DECEMBER 2017 (1765 : Site Plan Review Application Pump-N-Go 7-0906-04-029 DECEMBER 2017)

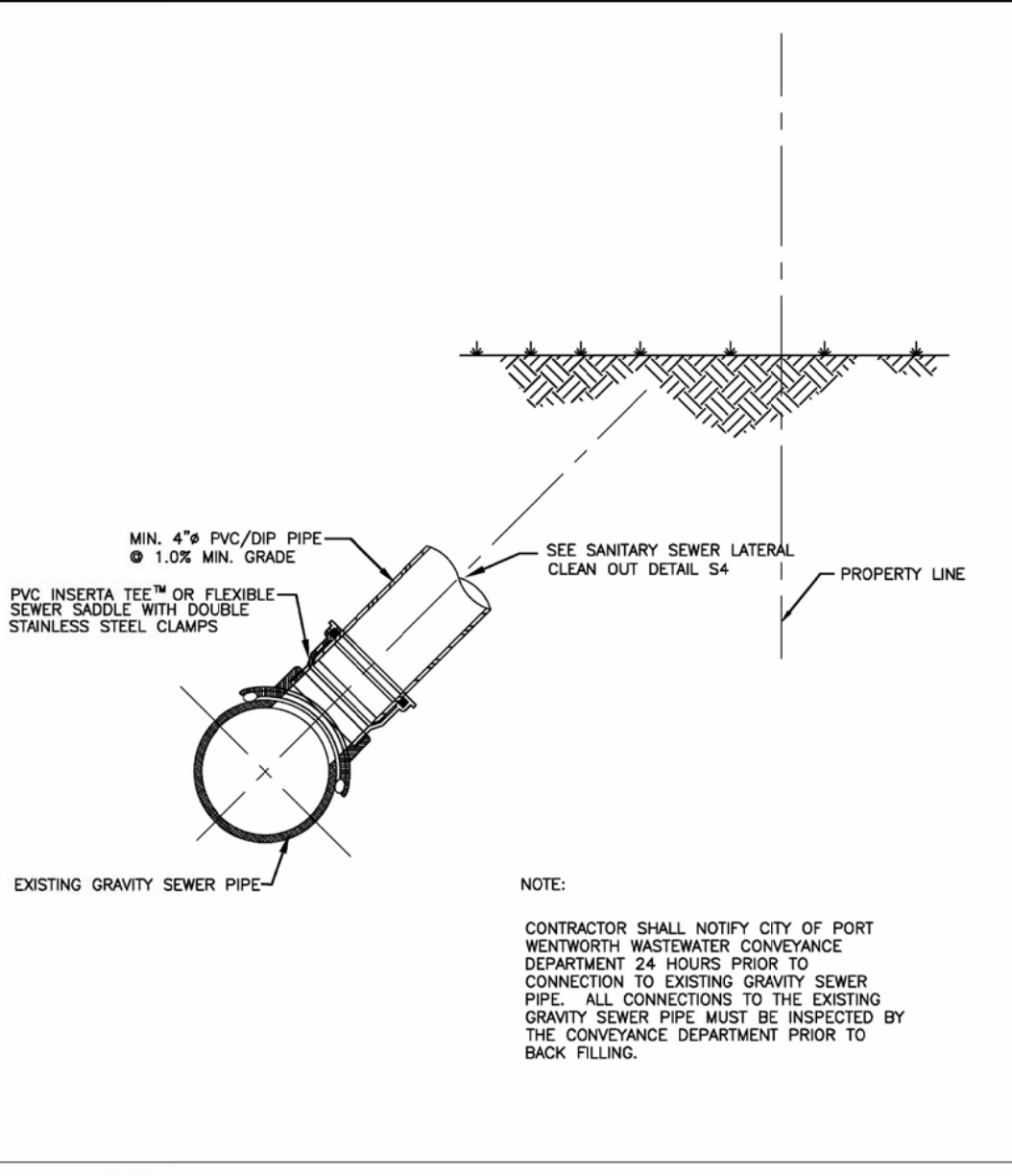




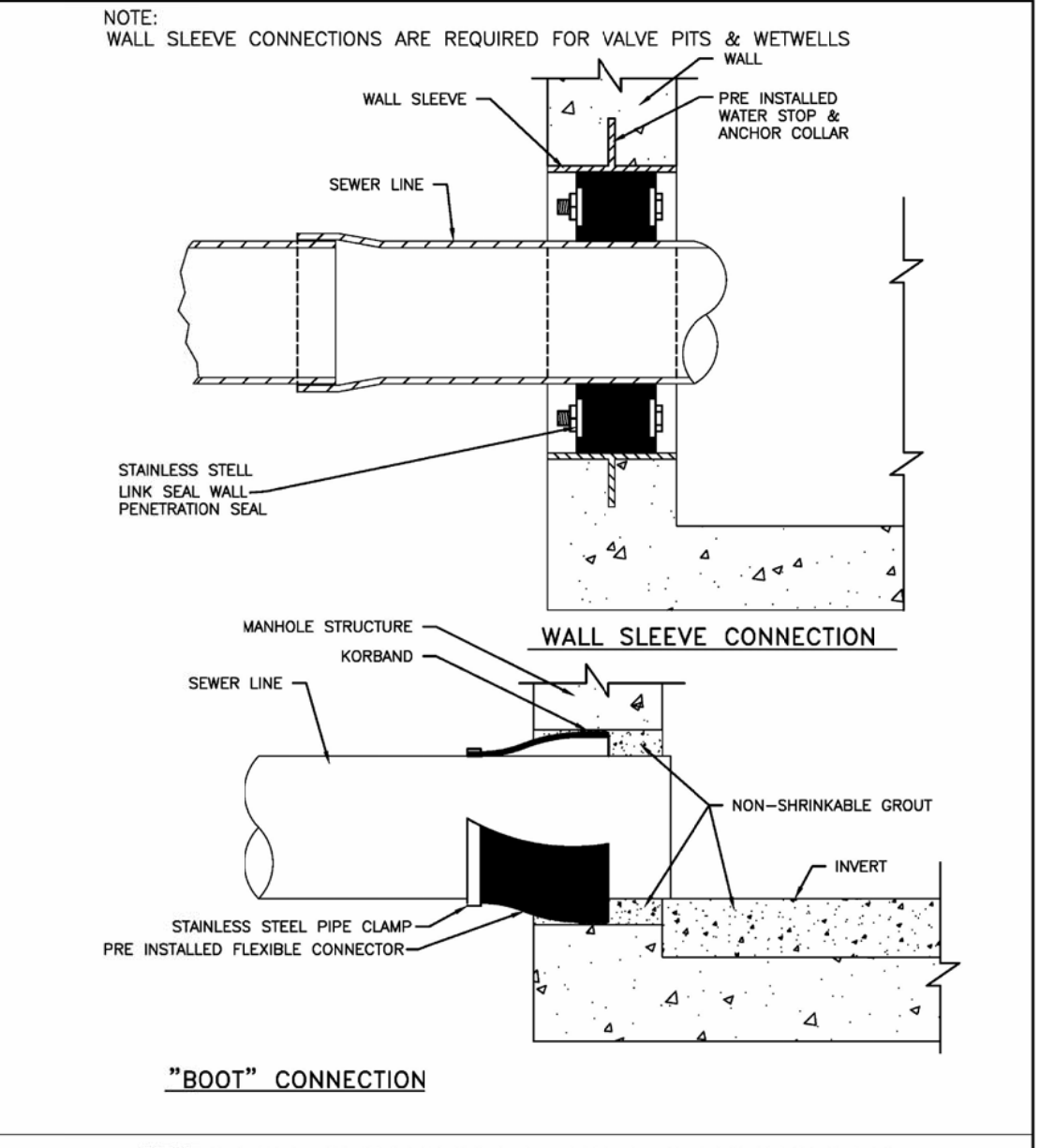
**PRECAST CONCRETE MANHOLE**  
 City of Port Wentworth  
 TECHNICAL DETAILS  
 S-1  
 PREPARED BY SAUSSY ENGINEERING, LLC. SCALE: N.T.S. DATED: FEBRUARY 2007



**SANITARY SEWER SERVICE CONNECTION**  
 City of Port Wentworth  
 TECHNICAL DETAILS  
 S-4  
 PREPARED BY SAUSSY ENGINEERING, LLC. SCALE: N.T.S. DATED: FEBRUARY 2007



**SEWER SERVICE CONNECT TO EXT. PIPE**  
 City of Port Wentworth  
 TECHNICAL DETAILS  
 S-5  
 PREPARED BY SAUSSY ENGINEERING, LLC. SCALE: N.T.S. DATED: FEBRUARY 2007



**PRECAST STRUCTURE PIPE CONNECTION**  
 City of Port Wentworth  
 TECHNICAL DETAILS  
 S-6  
 PREPARED BY SAUSSY ENGINEERING, LLC. SCALE: N.T.S. DATED: FEBRUARY 2007

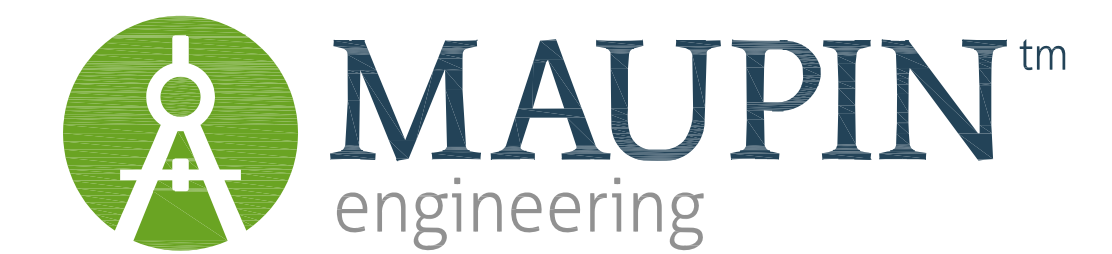
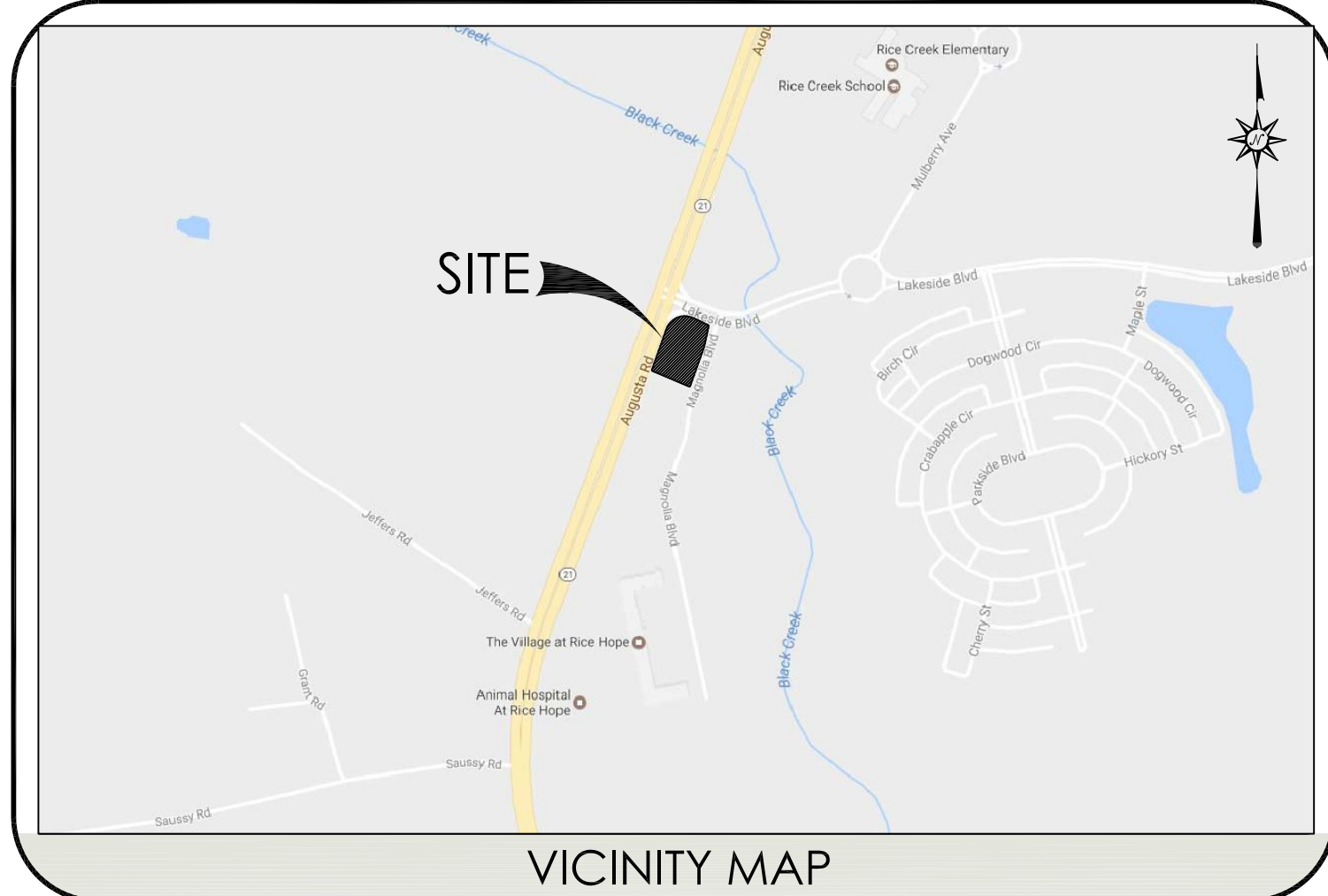
**GENERAL DEVELOPMENT NOTES:**

- PIN: 7-0906-04-029  
 ADDRESS: 2 MAGNOLIA BLVD.  
 PORT WENTWORTH, GA
- TOTAL LAND ACREAGE = 1.55(±) AC  
 TOTAL DISTURBED ACREAGE = 1.62(±) AC  
 EXISTING USE OF PROPERTY : VACANT  
 PROPOSED USE OF PROPERTY : GAS STATION AND RETAIL  
 PRESENT SITE ZONING : M-P-O
- PROPERTY IS LOCATED IN ZONE AE BFE 13. A SPECIAL FLOOD HAZARD AREA AS DETERMINED BY FEMA FLOOD INSURANCE RATE MAP # 13051C0030F, DATED 9/26/2008
- THE SITE IS SERVED BY THE CITY WATER AND SANITARY SEWER SYSTEM.
- PARKING SPACE CALCULATIONS:  
 REQUIRED:  
 GAS CONVENIENCE STORE  
 1 SPACE/200SF LEASIBLE \* 4,000SF (60%)  
 + 1 SPACE/PUMP \* 4 PUMPS  
 + 1 SPACE/EMPLOYEE \* 2 EMPLOYEES  
 = 18 STALLS  
 RETAIL SPACES  
 1 SPACE/200SF LEASIBLE \* 8,400SF (80%)  
 + 1 SPACE/EMPLOYEE \* 6 EMPLOYEES  
 = 40 STALLS  
 TOTAL REQUIRED = 58 STALLS  
 PROVIDED: = 61 STALLS

**Pump-N-Go**  
 Specific Development Plan

MEI Proj #313-17-01 Plan Date: 10/30/17

PREPARED FOR:  
 PUMP-N-GO  
 YASH DESAI  
 110 CREEKSIDE DRIVE  
 POOLER, GEORGIA 31322  
 ydesai@pumpngosav.com



**SHEET INDEX**

C1	COVER - NOTES
C2	EXISTING CONDITIONS DEMO PLAN
C3	STAKING PLAN
C4	UTILITY PLAN
C5	GRADING PLAN
C6A-6C	EROSION CONTROL PLAN - INITIAL-FINAL
D1-D4	DETAILS
L1-L2	LANDSCAPING PLAN & DETAILS (ATLANTIC STAR)
IR1-IR2	IRRIGATION DETAILS (ATLANTIC STAR)

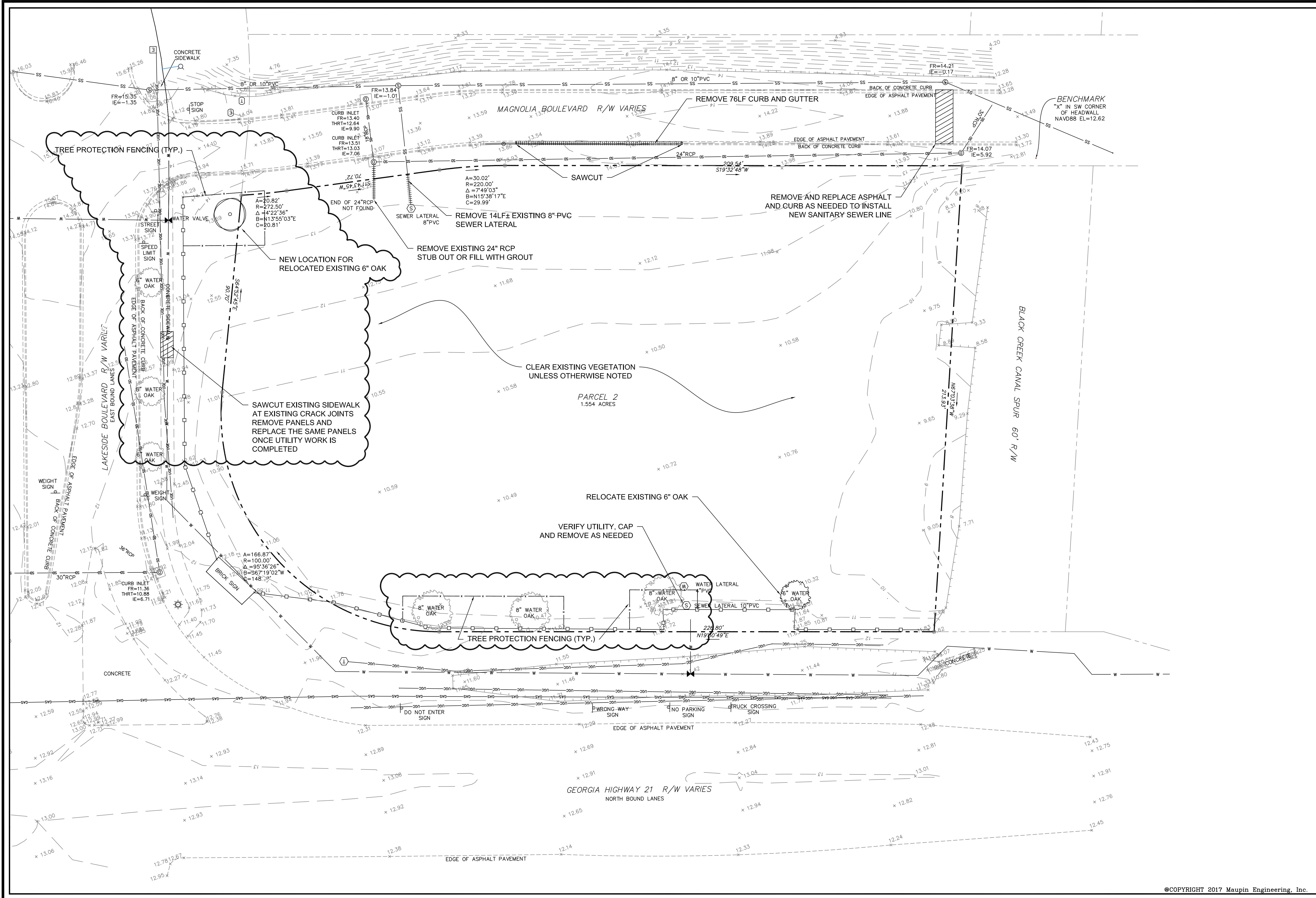
NO.	DATE	DESCRIPTION
1	8/14/17	Set revised for increased building footprint / retail
2	10/30/17	Set revised based on review comments



CONTRACTOR IS REQUIRED TO CALL AT LEAST 3 DAYS PRIOR TO START OF CONSTRUCTION

THIS SET IS RELEASED FOR PERMITTING 10/31/17  
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NO.	DATE	DESCRIPTION
1	01/17/17	Layout modified to accommodate increased building footprint

**MAUPIN**<sup>tm</sup>  
engineering

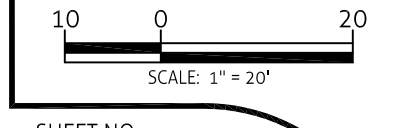
114 W. 42<sup>nd</sup> STREET • SAVANNAH, GA 31401  
O: 912.235.2915

**EXISTING CONDITIONS & DEMOLITION PLAN**  
Pump-N-Go



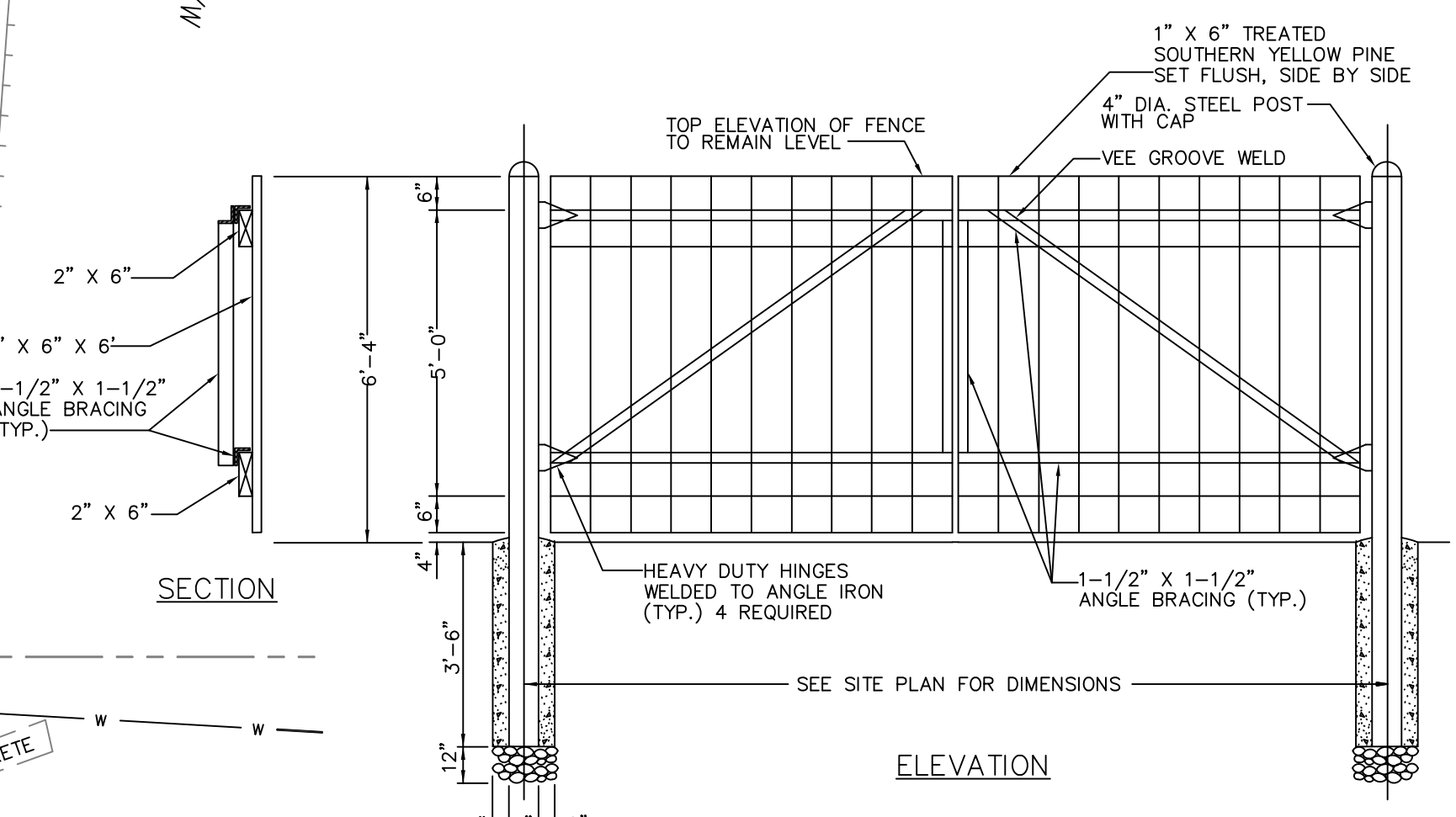
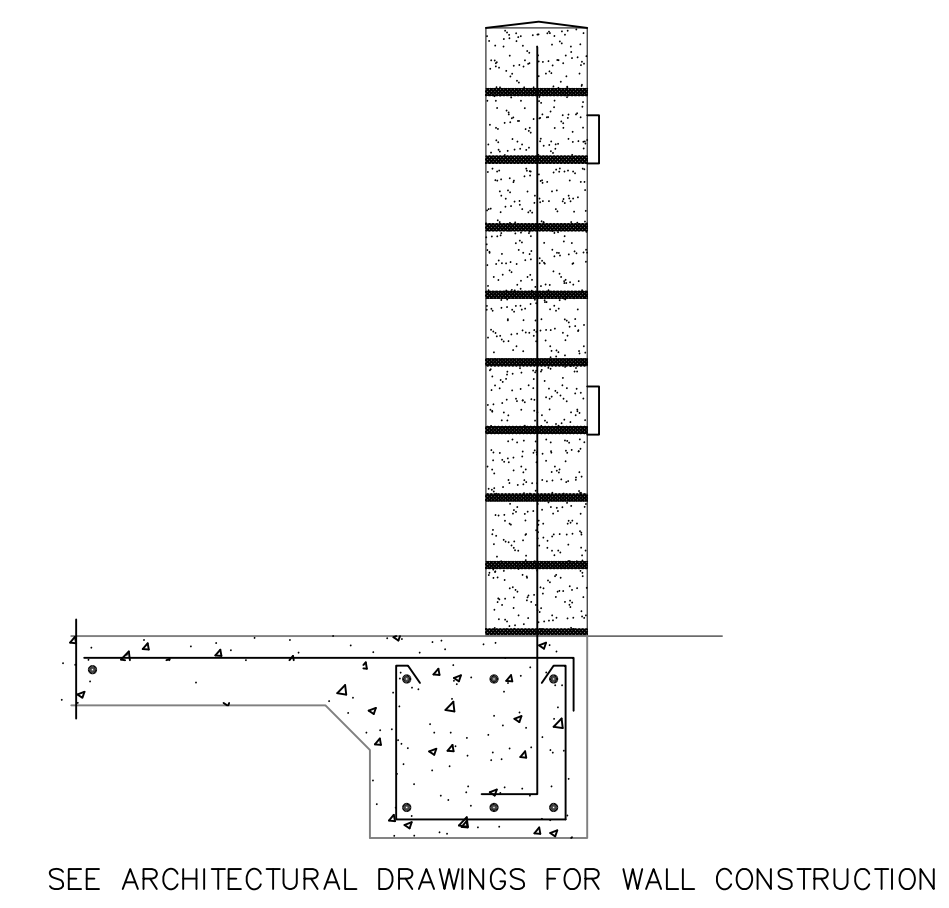
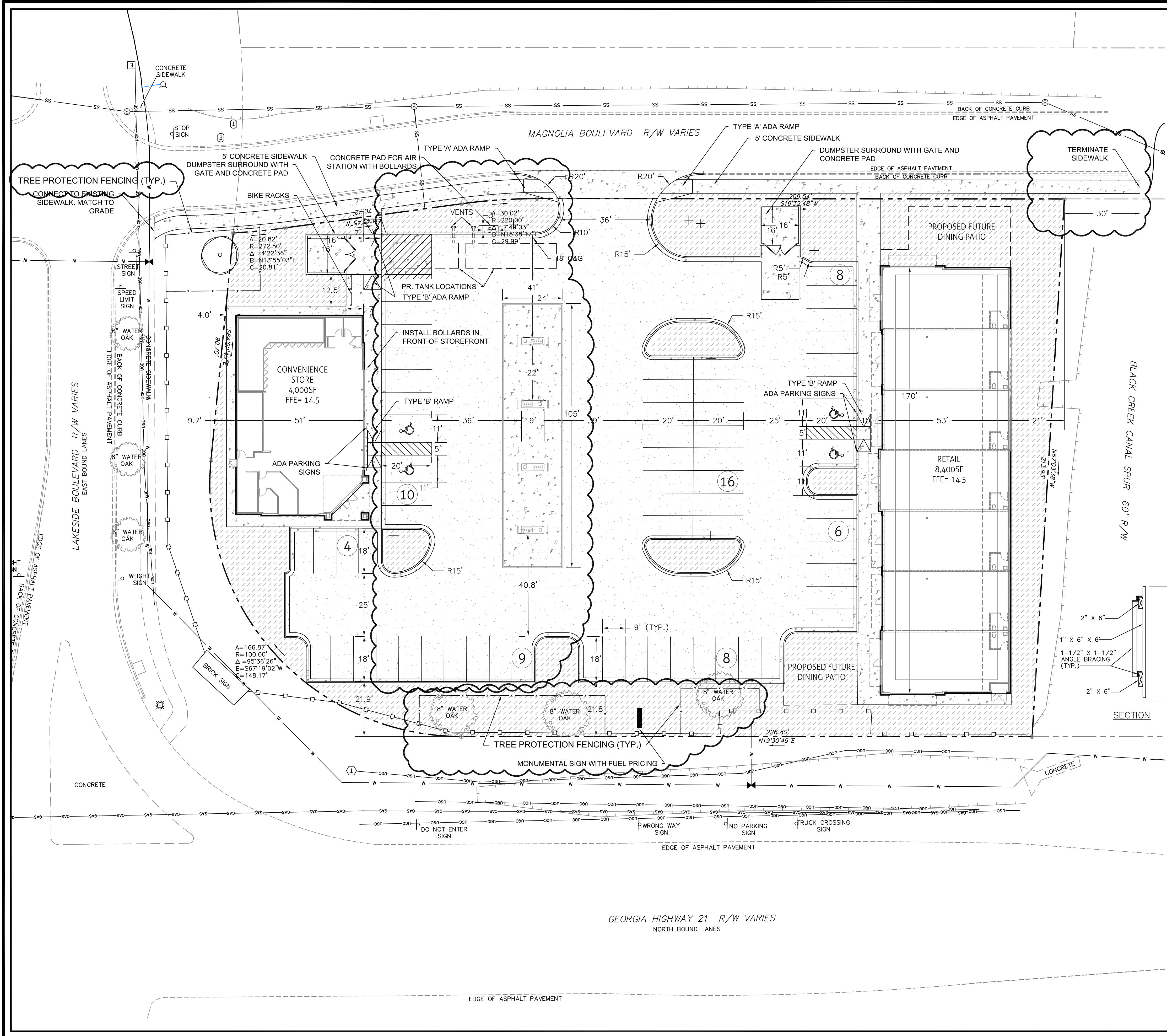
STATUS: **RELEASED FOR PERMITTING**

DRWN: ADD 10-30-2017  
CHK'D: JAM 9-15-17



SHEET NO. **C.2**  
313-17-01





REVISIONS

NO.	DATE	DESCRIPTION
1	10/30/17	LAYOUT MODIFIED TO ACCOMMODATE INCREASED BUILDING FOOTPRINT
2	10/30/17	APPROVED FOR PERMITTING

**MAUPIN**<sup>tm</sup>  
engineering

114 W. 42<sup>nd</sup> STREET • SAVANNAH, GA 31401  
O: 912.235.2915

**STAKING PLAN**  
Pump-N-Go



STATUS: **RELEASED FOR PERMITTING**

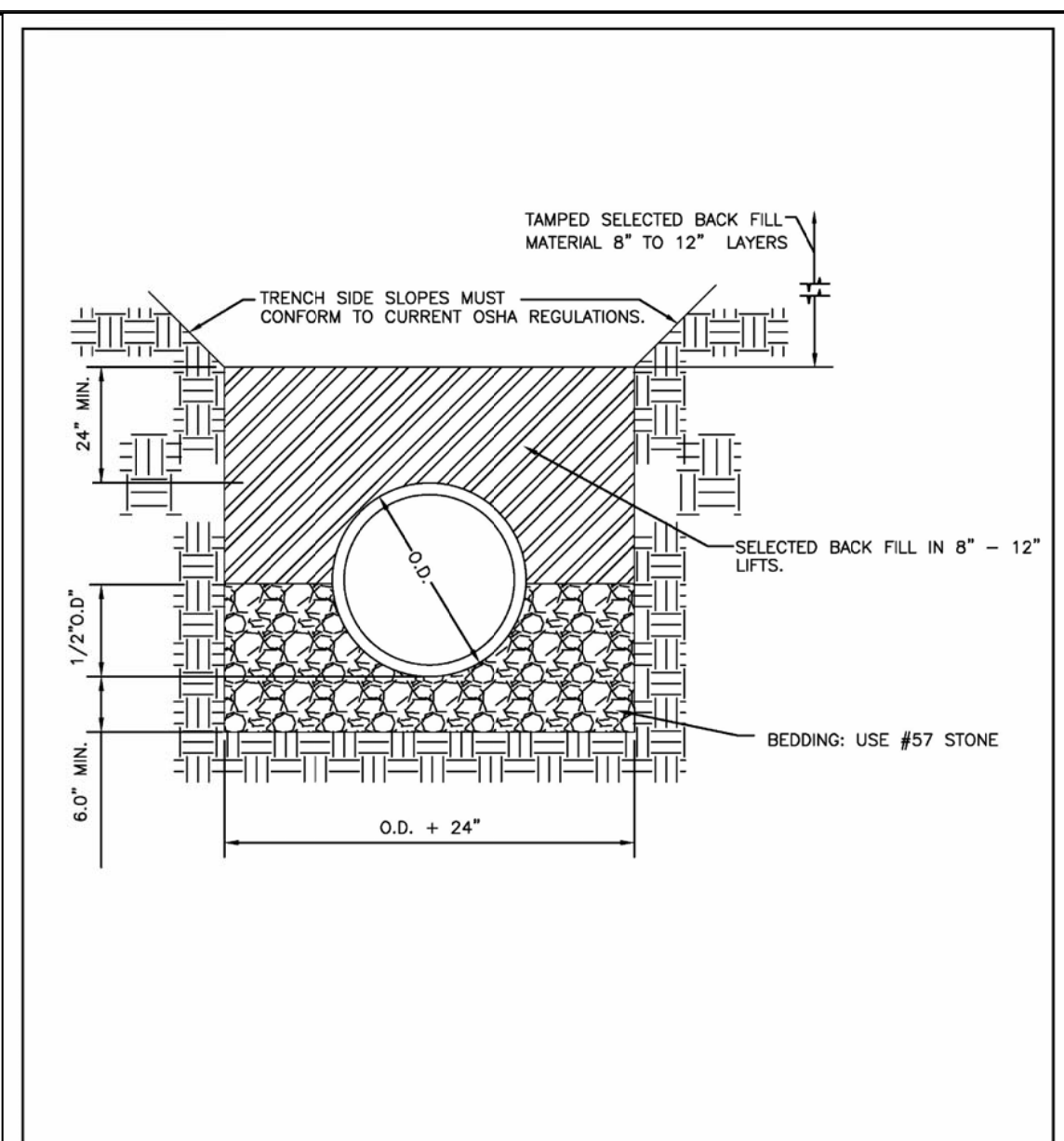
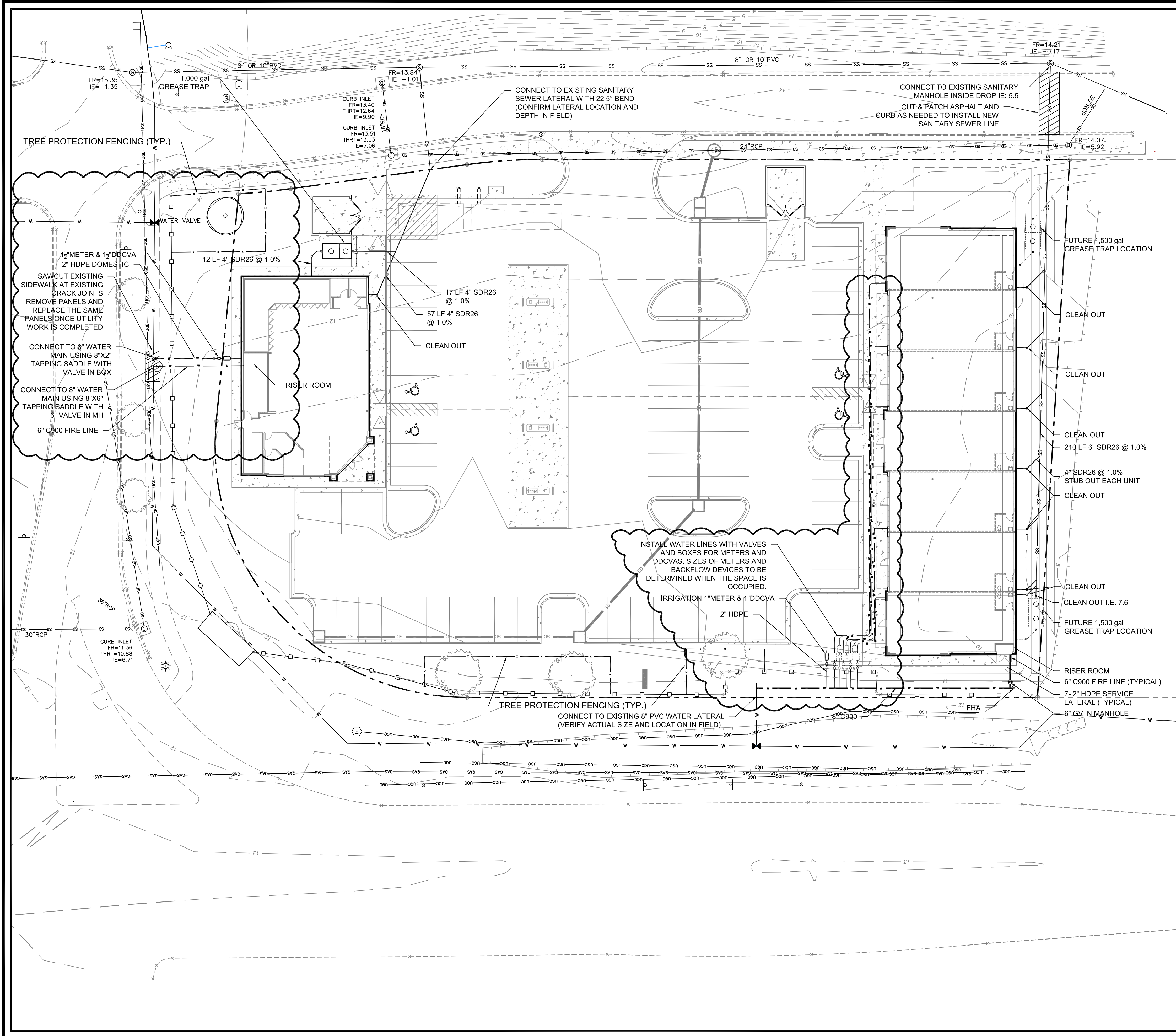
DRWN: ADD 10-30-2017  
CHK'D: JAM 9-15-17

SCALE: 1" = 20'

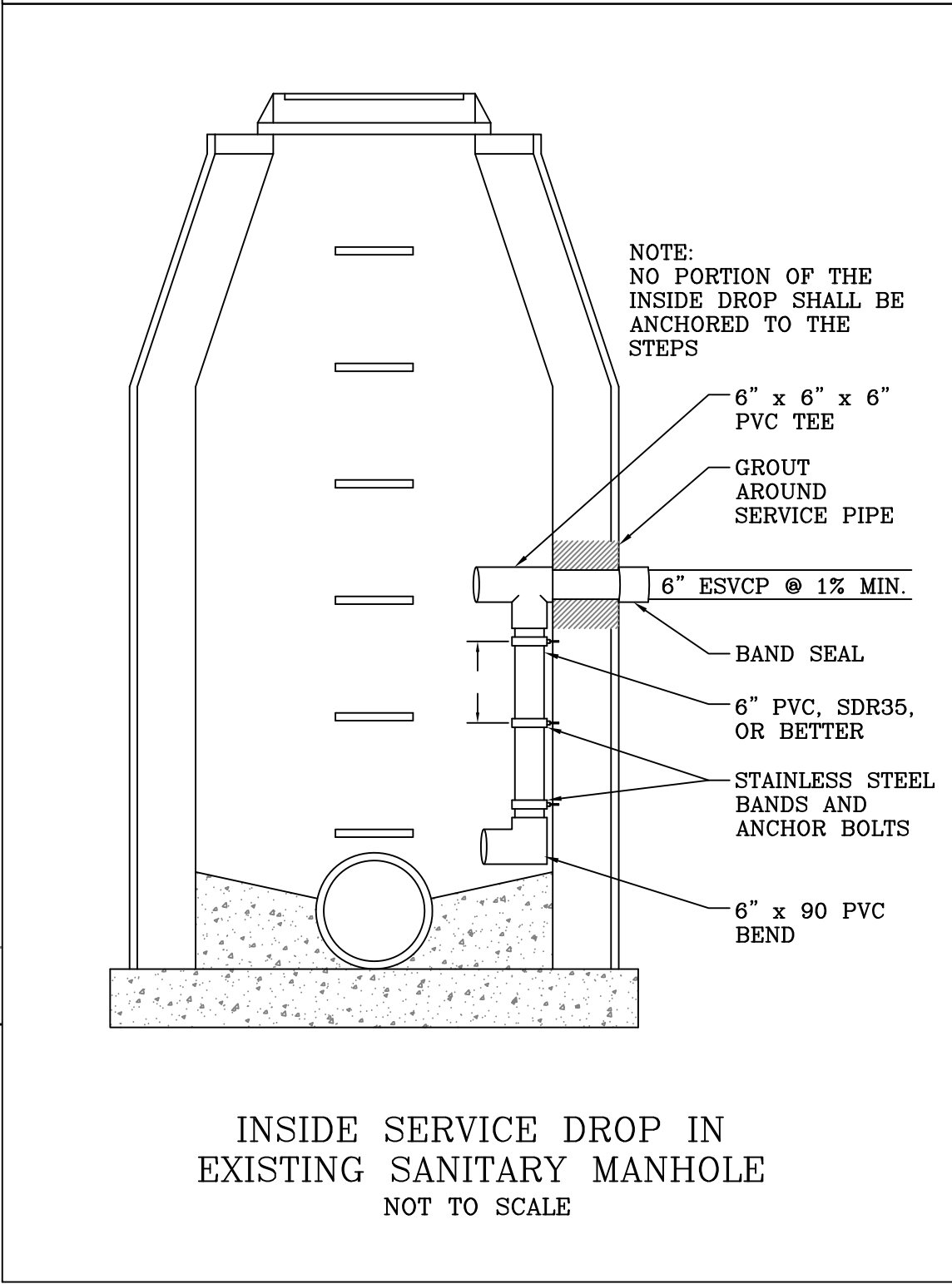
SHEET NO. **C.3**  
313-17-01

PROJECT NO.





PIPE BEDDING  
 City of Port Wentworth  
 TECHNICAL DETAILS  
 S-8  
 PREPARED BY SAUSSY ENGINEERING, LLC. SCALE: N.T.S. DATED: FEBRUARY 2007



INSIDE SERVICE DROP IN EXISTING SANITARY MANHOLE  
 NOT TO SCALE

REVISIONS	DATE	DESCRIPTION
NO. 1	01/17/17	Layout modified to accommodate increased building footprint

**MAUPIN**<sup>tm</sup>  
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114 W. 42<sup>nd</sup> STREET • SAVANNAH, GA 31401  
 O: 912.235.2915

**UTILITY PLAN**  
 Pump-N-Go



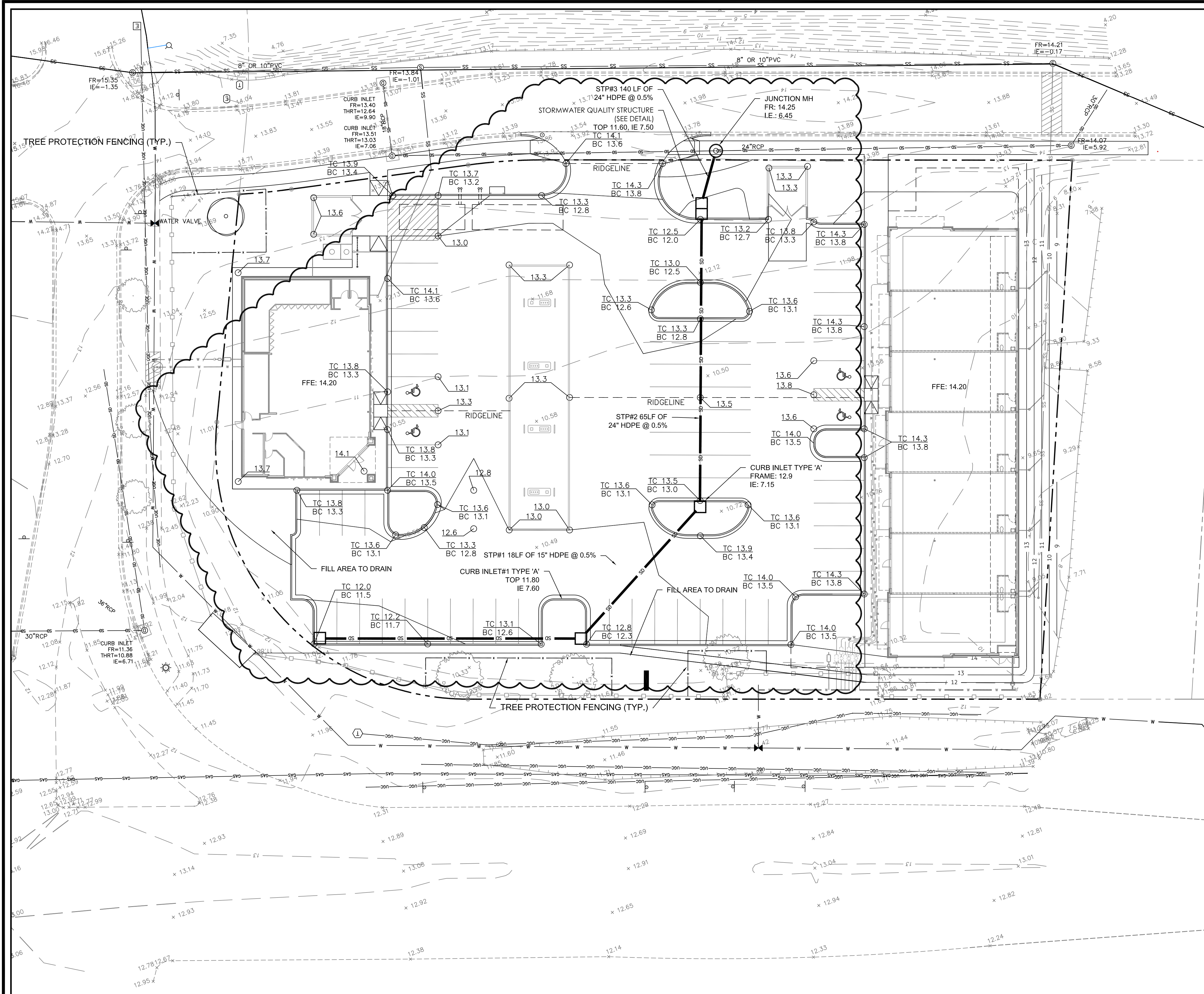
STATUS: **RELEASED FOR PERMITTING**

DRWN: ADD 10-30-2017  
 CHK'D: JAM 9-15-17

SCALE: 1" = 20'

SHEET NO. **C.4**  
 313-17-01





NOTE: STORMWATER MANAGED IN EXISTING COMMON DEVELOPMENT PONDS

NO.	DESCRIPTION
1	Grading modified to accommodate increase building footprint
2	Grading modified based on review comments

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114 W. 42<sup>ND</sup> STREET • SAVANNAH, GA 31401  
O: 912 235 2915

**GRADING PLAN**  
Pump-N-Go



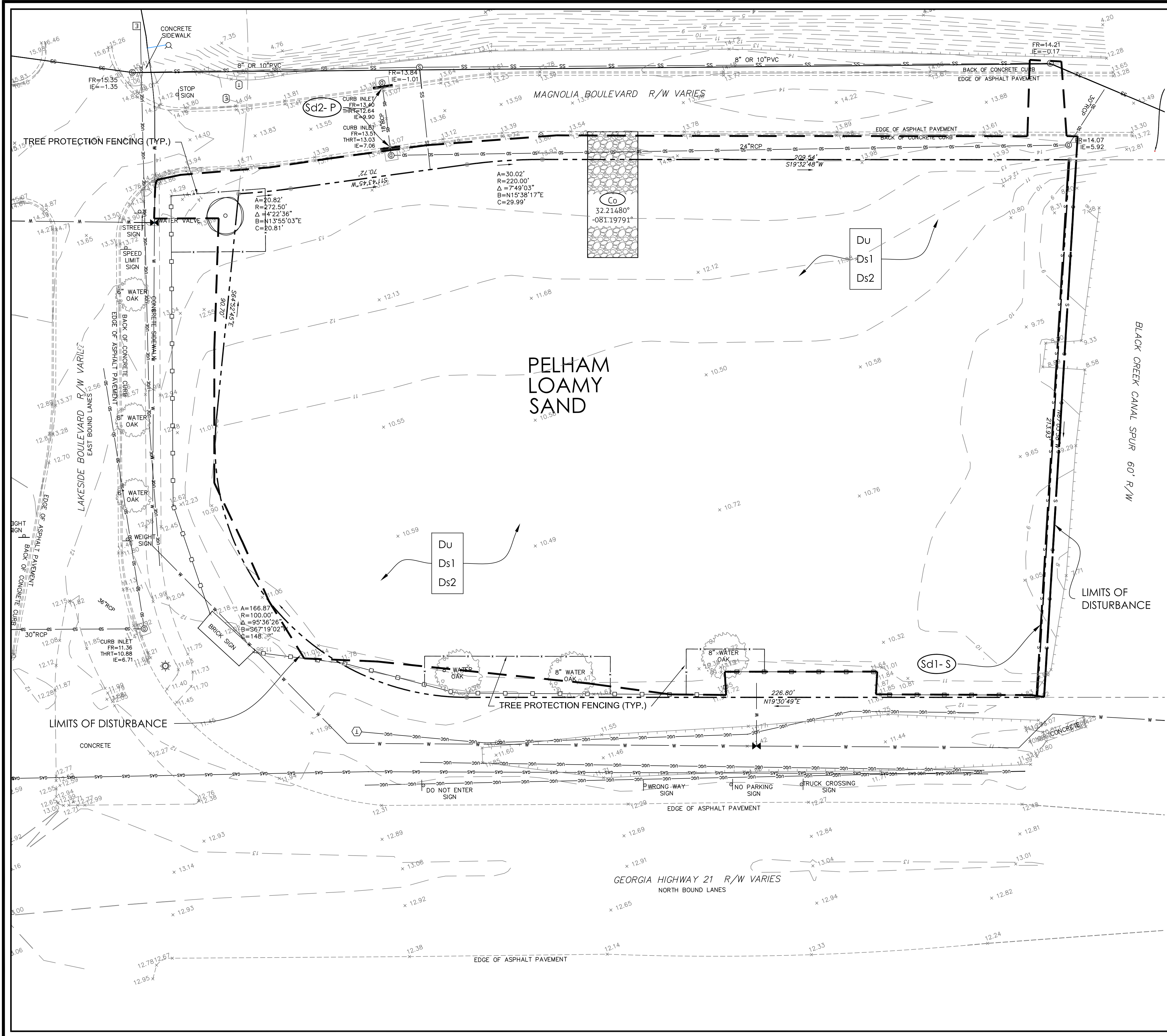
STATUS: **RELEASED FOR PERMITTING**

DRWN: ADD 10-30-2017  
CHK'D: JAM 9-15-17

SCALE: 1" = 20'

SHEET NO. **C.5**  
313-17-01





USGS QUAD - CHATHAM COUNTY - PORT WENTWORTH

REVISIONS	DATE	DESCRIPTION
NO.		

**MAUPIN**<sup>tm</sup>  
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114 W. 42<sup>nd</sup> STREET • SAVANNAH, GA 31401  
O: 912.235.2915

**SEDIMENT AND EROSION CONTROL PLAN - INITIAL**  
Pump-N-Go

LEVEL II E&S

**GEORGIA REGISTERED ENGINEER**  
No. 23758  
JAY A. MAUPIN

CERT #21051 EXP-10/31/2018  
STATUS: **RELEASED FOR PERMITTING**

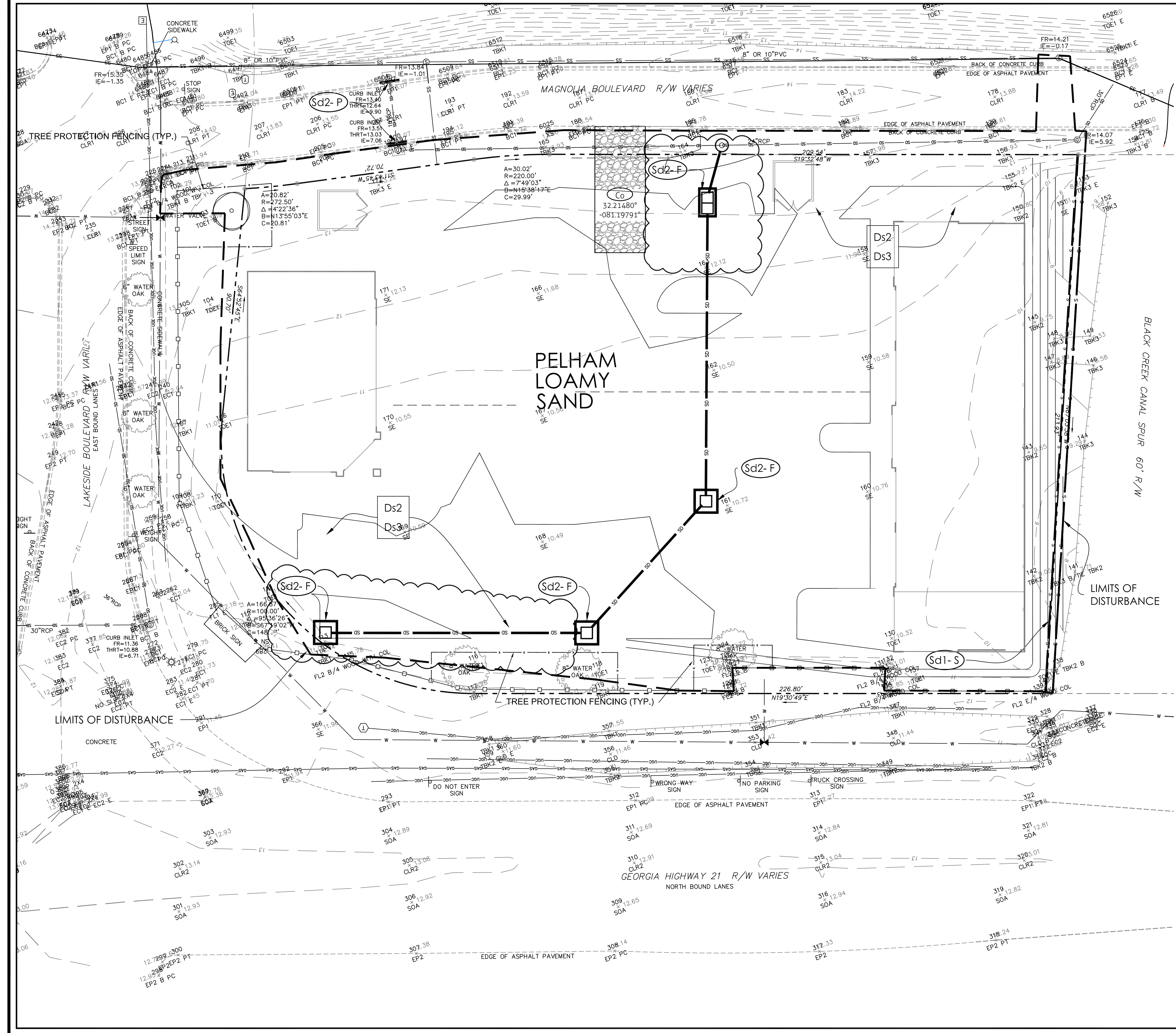
DRWN: ADD 10-30-2017  
CHK'D: JAM 9-15-17

10 0 20  
SCALE: 1"=20'

SHEET NO.

**C.6a**  
313-17-01





SEEDING RATES FOR TEMPORARY & PERMANENT COVER

MONTH	TEMPORARY COVER	RATES PER ACRE	MONTH	PERMANENT COVER	RATES PER ACRE
MARCH-JUNE	COMMON BERMUDA (HULLED) WEeping LOVEGRASS	10 lbs. 4 lbs.	MARCH-JUNE	COMMON BERMUDA (HULLED) WEeping LOVEGRASS	10 lbs. 4 lbs.
APRIL-AUGUST	BROWN TOP MILLET SUDANGRASS PEARL MILLET	40 lbs. 60 lbs. 50 lbs.	JULY-AUGUST	COMMON BERMUDA (HULLED) & BROWN TOP MILLET & WEeping LOVEGRASS COMMON BERMUDA (HULLED) & PENSACOLA BAHIA & BROWN TOP MILLET	10 lbs. 10 lbs. 6 lbs. 2 lbs. 6 lbs. 30 lbs. 10 lbs.
SEPT-FEBRUARY	RYE (MOST WINTER HARDY) RYEGRASS BARLEY WHEAT	3 BU 40 lbs. 3 BU 3 BU		PENSACOLA BAHIA & BROWN TOP MILLET & WEeping LOVEGRASS & BROWN TOP MILLET WEeping LOVEGRASS & BROWN TOP MILLET	60 lbs. 10 lbs. 30 lbs. 2 lbs. 10 lbs. 10 lbs.

- NOTES
- CENTREDE SOG CAN BE USED AS PERMANENT COVER ANYTIME EXCEPT JUNE THROUGH OCTOBER.
  - LISTED IN ORDER OF PREFERENCE.
  - ALL PERMANENT GRASS PLANTINGS SHALL BE MULCHED.
- Ds2-Ds3 NOTES:
- A TEMPORARY GRASSING OF ANNUAL RYEGRASS SHALL BE APPLIED AT A RATE OF 40 LBS PER ACRE TO DISTURBED AREAS WITHIN 14 DAYS OF DISTURBANCE. THE PROPOSED ANNUAL RYEGRASS SHALL BE APPLIED DURING THE MONTHS OF SEPTEMBER THRU DECEMBER.
  - A 6-12-12 FERTILIZER SHALL BE USED ON THE DISTURBED AREA OF Ds2 AND SHALL BE APPLIED AT A RATE OF 1500 LBS. PER AC.
- Ds3 - 1. A PERMANENT GRASSING OF UNHULLED COMMON BERMUDA SHALL BE APPLIED AT A RATE OF 10 LBS. PER ACRE DURING THE MONTHS OF SEPTEMBER THRU FEBRUARY. IF A HYDRAULIC SEEDER IS TO BE USED, REFER TO THE EROSION AND SEDIMENT CONTROL MANUAL FOR FURTHER DIRECTION ON THE METHOD OF APPLICATION.
- A 6-12-12 FERTILIZER SHALL BE USED ON THE DISTURBED AREA OF Ds3 AND SHALL BE APPLIED AT RATE OF 1500 LBS. PER AC.
  - DRIED STRAW OR DRY HAY SHALL BE USED FOR MULCHING AND APPLIED AT A RATE OF 2 TONS PER ACRE. MULCH WILL BE SPREAD UNIFORMLY WITHIN 24 HOURS AFTER SEEDING. THE MULCH MAY BE SPREAD BY BLOWER-TYPE SPREADING EQUIPMENT, OTHER SPREADING EQUIPMENT OR BY HAND. MULCH SHALL BE APPLIED TO COVER 75% OF THE SOIL SURFACE.

REVISIONS

NO.	DATE	DESCRIPTION
1	8/14/17	REVISIONS TO ACCOMMODATE INCREASED BUILDING FOOTPRINT
2	10/30/17	REVISIONS TO ACCOMMODATE INCREASED BUILDING FOOTPRINT

**MAUPIN**  
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114 W. 42<sup>ND</sup> STREET • SAVANNAH, GA 31401  
O: 912.235.2915

**SEDIMENT AND EROSION CONTROL PLAN - INTERMEDIATE**  
Pump-N-Go

LEVEL II E&S

**GEORGIA REGISTERED ENGINEER**  
No. 23758  
JAY A. MAUPIN

CERT #21051 EXP-10/31/2018  
STATUS: REGISTERED FOR PERMITTING

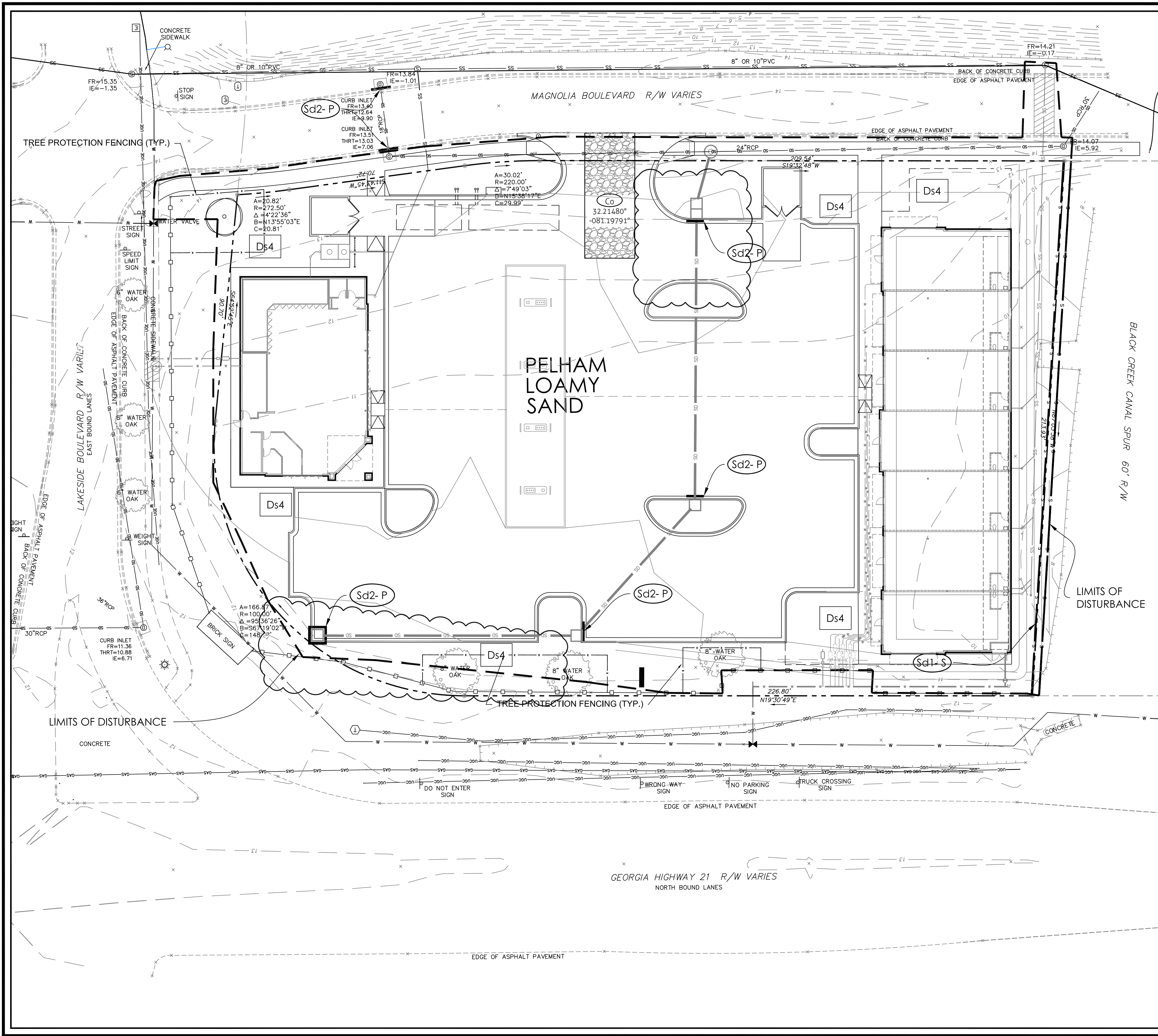
DRWN: ADD 10-30-2017  
CHK'D: JAM 9-15-17

SCALE: 1"=20'

SHEET NO. **C.6b**  
313-17-01

PROJECT NO.





NO.	DATE	DESCRIPTION
1	01/14/17	BMPs modified to accommodate increased building footprint
2	10/30/17	BMPs modified based on review comments

**MAUPIN**<sup>tm</sup>  
engineering

114 W. 42<sup>nd</sup> STREET • SAVANNAH, GA 31401  
O: 912.235.2915

**SEDIMENT AND EROSION CONTROL PLAN - FINAL**  
Pump-N-Go

LEVEL II E&S

**GEORGIA REGISTERED ENGINEER**  
No. 23758  
JAY A. MAUPIN

CERT #21051 EXP-10/31/2018

STATUS: **RELEASED FOR PERMITTING**

DRWN: ADD 10-30-2017  
CHK'D: JAM 9-15-17

SCALE: 1" = 20'

SHEET NO. **C.6c**  
313-17-01

- NOTE:
- ONCE THE SITE IS PAVED, THE CONSTRUCTION EXIT WILL NO LONGER BE REQUIRED.
  - ONCE THE SITE IS STABILIZED, REMOVE ALL TEMPORARY BMP'S

**Ds4** = SOD



ES&PC ITEM# **2 DESIGN PROFESSIONAL'S CREDENTIALS:**  
ENGINEER'S NAME (PRINTED): JAY MAUPIN, PE  
GEORGIA PE NUMBER: 23758  
GSWCC LEVEL II CERTIFICATION NUMBER: 21051  
CERTIFICATION NUMBER EXPIRATION DATE: 10/31/2018

**4 24 HOUR CONTACT**  
**YASH DESAI**  
**(912)349-7715**

**6 DEVELOPMENT**  
THIS SITE IS BEING DEVELOPED FOR GAS STATION AND COMMERCIAL RETAIL USE. THE TOTAL PARCEL AREA IS 1.55(±) ACRES. THE DISTURBED AREA IS 1.62(±) ACRES.

**7 CONSTRUCTION EXIT LOCATION**  
N: 32.214807°  
W: -81.19791°

**EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN (ES&PC)**  
THIS PLAN WAS PREPARED AS REQUIRED BY NPDES GENERAL PERMIT NO. GAR 100001. THESE PLAN SHEETS AND ALL REQUIREMENTS OF THE GENERAL PERMIT AS WELL AS LOCAL, STATE, AND FEDERAL REGULATIONS OR LAWS APPLY REGARDLESS OF SPECIFIC INCLUSION IN THIS PLAN.

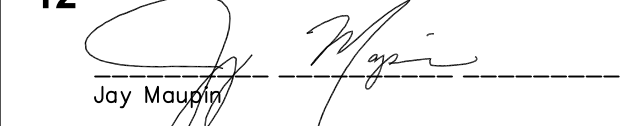
**9 CONSTRUCTION ACTIVITY DESCRIPTION**  
OWNER/DEVELOPER (PRIMARY PERMITTEE) WILL OVERSEE SITE CONSTRUCTION LOCATED ON THE PROPERTY SITUATED IN CITY OF PORT WENTWORTH, GA. PIN: 7-0906-04-029

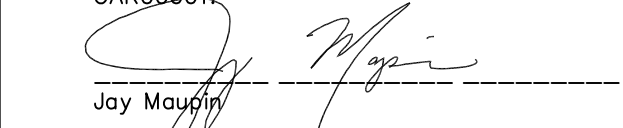
THE DESIGNER WAS NOT KNOWLEDGEABLE OF ANY SECONDARY PERMITTEES AT THE TIME OF PRODUCTION OF THE DRAWINGS.

CONSTRUCTION WILL BEGIN WITH PLACEMENT OF PERIMETER SILT PROTECTION BARRIERS AND CONSTRUCTION ENTRANCES. AFTER THESE EROSION CONTROL BEST MANAGEMENT PRACTICES HAVE BEEN INSTALLED, CLEARING AND GRUBBING OF VEGETATION WILL BEGIN IN AREAS THAT ARE TO BE DISTURBED. THE SITE WILL THEN BE GRADED AND UTILITIES WILL BE TRENCHED. ONCE BROUGHT TO FINAL GRADE, THE ROADS WILL BE PAVED WHILE ALL OTHER EXPOSED AREAS WILL BE STABILIZED WITH VEGETATION, SIDEWALKS, OR STRUCTURES.

STORM WATER RUNOFF FROM THIS DEVELOPMENT WILL BE DETAINED IN THE PROPOSED DETENTION PONDS AND DISCHARGED THROUGH THE CITY DRAINAGE AND CANAL SYSTEM INTO THE SAVANNAH RIVER.

**11 NAME OF RECEIVING WATERS**  
ON-SITE DETENTION ==> CITY CANAL SYSTEM ==> SAVANNAH RIVER

**12 I CERTIFY UNDER PENALTY OF LAW THAT THIS PLAN WAS PREPARED AFTER A SITE VISIT TO THE LOCATIONS DESCRIBED HEREIN BY MYSELF OR MY AUTHORIZED AGENT, UNDER MY SUPERVISION.**  
  
Date: 10/31/17

**13 I CERTIFY THAT THE PERMITTEE'S EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN PROVIDES FOR AN APPROPRIATE AND COMPREHENSIVE SYSTEM OF BEST MANAGEMENT PRACTICES REQUIRED BY THE GEORGIA WATER QUALITY CONTROL ACT AND THE DOCUMENT "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA" (MANUAL) PUBLISHED BY THE STATE SOIL AND WATER CONSERVATION COMMISSION AS OF JANUARY 1 OF THE YEAR IN WHICH THE LAND-DISTURBING ACTIVITY WAS PERMITTED, PROVIDES FOR THE SAMPLING OF THE RECEIVING WATER(S) OF THE SAMPLING OF THE STORM WATER OUTFALLS AND THAT THE DESIGNED SYSTEM OF BEST MANAGEMENT PRACTICES AND SAMPLING METHODS IS EXPECTED TO MEET THE REQUIREMENTS CONTAINED IN THE GENERAL NPDES PERMIT NO. GAR00001.**  
  
Date: 10/31/17

**14 THE DESIGN PROFESSIONAL WHO PREPARED THE ES&PC PLAN IS TO INSPECT THE INSTALLATION OF THE INITIAL SEDIMENT STORAGE REQUIREMENTS AND PERIMETER CONTROL BMP'S WITHIN 7 DAYS AFTER INSTALLATION.**

**15 NON-EXEMPT ACTIVITIES SHALL NOT BE CONDUCTED WITHIN THE 25 OR 50-FOOT UNDISTURBED STREAM BUFFERS AS MEASURED FROM THE POINT OF WRESTED VEGETATION OR WITHIN 25-FEET OF THE COASTAL MARSHLAND BUFFER AS MEASURED FROM THE JURISDICTIONAL DETERMINATION LINE WITHOUT FIRST ACQUIRING THE NECESSARY VARIANCES AND PERMITS.**

**17 AMENDMENTS / REVISIONS TO THE ES&PC PLAN WHICH HAVE A SIGNIFICANT EFFECT ON BMP'S WITH A HYDRAULIC COMPONENT MUST BE CERTIFIED BY THE DESIGN PROFESSIONAL.**

**18 WASTE MATERIALS SHALL NOT BE DISCHARGED TO WATERS OF THE STATE, EXCEPT AS AUTHORIZED BY A SECTION 404.**

**19 THE ESCAPE OF SEDIMENT FROM THE SITE SHALL BE PREVENTED BY THE INSTALLATION OF EROSION AND SEDIMENT CONTROL MEASURES AND PRACTICES PRIOR TO LAND DISTURBING ACTIVITIES.**

**20 EROSION CONTROL MEASURES WILL BE MAINTAINED AT ALL TIMES. IF FULL IMPLEMENTATION OF THE APPROVED PLAN DOES NOT PROVIDE FOR EFFECTIVE EROSION CONTROL, ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED TO CONTROL OR TREAT THE SEDIMENT SOURCE.**

**21 ANY DISTURBED AREA LEFT EXPOSED FOR A PERIOD GREATER THAN 14 DAYS SHALL BE STABILIZED WITH MULCH OR TEMPORARY SEEDING.**

**24 CONCRETE TRUCK WASHING - NO CONCRETE TRUCKS WILL BE ALLOWED TO WASH OUT OR DISCHARGE SURPLUS CONCRETE OR DRUM WASH WATER ONSITE.**

**25 PETROLEUM-BASED PRODUCTS - CONTAINERS FOR PRODUCTS SUCH AS FUELS, LUBRICANTS, AND TARS WILL BE INSPECTED DAILY FOR LEAKS AND SPILLS. THIS INCLUDES ONSITE VEHICLE AND MACHINERY DAILY INSPECTIONS AND REGULAR PREVENTATIVE MAINTENANCE OF SUCH EQUIPMENT. EQUIPMENT MAINTENANCE AREAS WILL BE LOCATED AWAY FROM STATE WATER, NATURAL DRAINS, AND STORMWATER DRAINAGE INLETS. IN ADDITION, TEMPORARY FUELING TANKS SHALL HAVE A SECONDARY CONTAINMENT LINER TO PREVENT/MINIMIZE SITE CONTAMINATION. DISCHARGE OF OILS, FUELS, AND LUBRICANTS IS PROHIBITED. PROPER DISPOSAL METHODS WILL INCLUDE COLLECTION IN A SUITABLE CONTAINER AND DISPOSAL AS REQUIRED BY LOCAL AND STATE REGULATIONS.**

**PAINTS/FINISHES/SOLVENTS - ALL PRODUCTS WILL BE STORED IN TIGHTLY SEALED ORIGINAL CONTAINERS WHEN NOT IN USE. EXCESS PRODUCT WILL NOT BE DISCHARGED TO THE STORMWATER COLLECTION SYSTEM. EXCESS PRODUCT, MATERIALS USED WITH THESE PRODUCTS AND PRODUCT CONTAINERS WILL BE DISPOSED OF ACCORDING TO MANUFACTURER'S SPECIFICATIONS AND RECOMMENDATIONS.**

**FERTILIZER/HERBICIDE - THESE PRODUCTS WILL BE APPLIED AT RATES THAT DO NOT EXCEED THE MANUFACTURER'S SPECIFICATIONS OR ABOVE THE GUIDELINES SET FORTH IN THE CROP ESTABLISHMENT OR IN THE GSWCC MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA. ANY STORAGE OF THESE MATERIALS WILL BE UNDER ROOF IN SEALED CONTAINERS.**

**BUILDING MATERIALS - NO BUILDING OR CONSTRUCTION MATERIALS WILL BE BURIED OR DISPOSED OF ONSITE. ALL SUCH MATERIALS WILL BE DISPOSED OF IN PROPER WASTE DISPOSAL PROCEDURES.**

**SPILL CLEANUP AND CONTROL PRACTICES**

- LOCAL, STATE, AND MANUFACTURER'S RECOMMENDED METHODS FOR SPILL CLEANUP WILL BE CLEARLY POSTED AND PROCEDURES WILL BE MADE AVAILABLE TO SITE PERSONNEL.
- MATERIAL AND EQUIPMENT NECESSARY FOR SPILL CLEANUP WILL BE KEPT IN THE MATERIAL STORAGE AREAS. TYPICAL MATERIALS AND EQUIPMENT INCLUDES, BUT IS NOT LIMITED TO, BROOMS, DUSTPANS, MOPS, RAGS, GLOVES, GOGGLES, CAT LITTER, SAND, SAWDUST, AND PROPERLY LABELED PLASTIC AND METAL WASTE CONTAINERS.
- SPILL PREVENTION PRACTICES AND PROCEDURES WILL BE REVIEWED AFTER A SPILL AND ADJUSTED AS NECESSARY TO PREVENT FUTURE SPILLS.
- ALL SPILLS WILL BE CLEANED UP IMMEDIATELY UPON DISCOVERY. ALL SPILLS WILL BE REPORTED AS REQUIRED BY LOCAL, STATE, AND FEDERAL REGULATIONS.
- FOR SPILLS THAT IMPACT SURFACE WATER (LEAVE A SHEEN ON SURFACE WATER), THE NATIONAL RESPONSE CENTER (NRC) WILL BE CONTACTED WITHIN 24 HOURS AT 1-800-426-2675.
- FOR SPILLS OF AN UNKNOWN AMOUNT, THE NATIONAL CENTER (NRC) WILL BE CONTACTED WITHIN 24 HOURS AT 1-800-426-2675.
- FOR SPILLS GREATER THAN 25 GALLONS AND NO SURFACE WATER IMPACTS, THE GEORGIA EPD WILL BE CONTACTED WITHIN 24 HOURS.
- FOR SPILLS LESS THAN 25 GALLONS AND NO SURFACE WATER IMPACTS, THE SPILL WILL BE CLEANED AND LOCAL AGENCIES CONTACTED AS REQUIRED.

**THE CONTRACTOR SHALL NOTIFY THE LICENSED PROFESSIONAL WHO PREPARED WITH PLAN IF MORE THAN 1,320 GALLONS OF PETROLEUM IS STORED ONSITE (THIS INCLUDES CAPACITIES OF EQUIPMENT) OR IF ANY ONE PIECE OF EQUIPMENT HAS A CAPACITY GREATER THAN 660 GALLONS. THE CONTRACTOR WILL NEED A SPILL PREVENTION CONTAINMENT AND COUNTERMEASURES PLAN PREPARED BY THAT LICENSED PROFESSIONAL.**

ES&PC ITEM# **26/27**  
UPON COMPLETION OF THIS PROJECT THE CONTRACTOR SHALL REMOVE ALL EROSION CONTROL MEASURES EXCEPT AS NOTED ON THE PLANS.

**29 INSPECTIONS**

(1.) EACH DAY WHEN ANY TYPE OF CONSTRUCTION ACTIVITY HAS TAKEN PLACE AT A PRIMARY PERMITTEE'S SITE, CERTIFIED PERSONNEL PROVIDED BY THE PRIMARY PERMITTEE SHALL INSPECT:  
A. ALL AREAS A THE PRIMARY PERMITTEE'S SITE WHERE PETROLEUM PRODUCTS ARE STORED, USED, OR HANDLED FOR SPILLS AND LEAKS FROM VEHICLES AND EQUIPMENT AND  
B. ALL LOCATIONS AT THE PRIMARY PERMITTEE'S SITE WHERE VEHICLES ENTER OR EXIT THE SITE FOR EVIDENCE OF OFF-SITE SEDIMENT TRACKING.  
THESE INSPECTIONS MUST BE CONDUCTED UNTIL A NOTICE OF TERMINATION IS SUBMITTED.

(2.) MEASURE RAINFALL ONCE EVERY 24-HOURS EXPECT ANY NON-WORKING SATURDAY, NON-WORKING SUNDAY AND NON-WORKING FEDERAL HOLIDAY UNTIL A NOTICE OF TERMINATION IS SUBMITTED. MEASUREMENT OF RAINFALL MAY BE SUSPENDED IF ALL AREAS OF THE SITE HAVE UNDERGONE FINAL STABILIZATION OR ESTABLISHED A CROP OF ANNUAL VEGETATION AND SEEDING OF TARGET PERENNIALS APPROPRIATE OF THE REGION.

(3.) CERTIFIED PERSONNEL (PROVIDED BY THE PRIMARY PERMITTEE) SHALL INSPECT THE FOLLOWING AT LEAST ONCE EVERY SEVEN (7) CALENDAR DAYS AND WITHIN 24 HOURS OF THE END OF A STORM THAT IS 0.5 INCHES RAINFALL OR GREATER (UNLESS SUCH STORM ENDS AFTER 5:00 PM ON ANY FRIDAY OR ON ANY NON-WORKING SATURDAY, NON-WORKING SUNDAY OR ANY NON-WORKING FEDERAL HOLIDAY IN WHICH CASE THE INSPECTION SHALL BE COMPLETED BY THE END OF THE NEXT BUSINESS DAY AND/OR WORKING DAY, WHICHEVER OCCURS FIRST): (A) DISTURBED AREAS OF PRIMARY PERMITTEE'S CONSTRUCTION SITE ; (B) AREAS USED BY THE PRIMARY PERMITTEE FOR STORAGE OF MATERIALS THAT ARE EXPOSED TO PRECIPITATION ; AND (C) STRUCTURAL CONTROL MEASURES. EROSION AND SEDIMENT CONTROL MEASURES IDENTIFIED IN THE PLAN APPLICABLE TO THE PRIMARY PERMITTEE'S SITE SHALL BE ENSURED THAT THEY ARE OPERATING CORRECTLY. WHERE DISCHARGE LOCATIONS OR POINTS ARE ACCESSIBLE, THEY SHALL BE INSPECTED TO ASCERTAIN WHETHER EROSION CONTROL MEASURES ARE EFFECTIVE IN PREVENTING SIGNIFICANT IMPACTS TO RECEIVING WATER(S). AREAS OF A SITE THAT HAVE UNDERGONE FINAL STABILIZATION OR ESTABLISHED A CROP OF ANNUAL VEGETATION AND A SEEDING TARGET PERENNIALS APPROPRIATE FOR THE REGION, THE PERMITTEE MUST COMPLY WITH PART IV.D.4.A.(4). THESE INSPECTIONS MUST BE CONDUCTED UNTIL NOTICE OF TERMINATION IS SUBMITTED.

(4.) CERTIFIED PERSONNEL (PROVIDED BY THE PRIMARY PERMITTEE) SHALL INSPECT AT LEAST ONCE PER MONTH DURING THE TERM OF THIS PERMIT (I.E., UNTIL NOTICE OF TERMINATION IS RECEIVED BY EPD) THE AREAS OF THE SITE THAT HAVE UNDERGONE FINAL STABILIZATION OR ESTABLISHED A CROP OF ANNUAL VEGETATION AND A SEEDING OF TARGET PERENNIALS APPROPRIATE FOR THE REGION. THESE AREAS SHALL BE INSPECTED FOR EVIDENCE OF, OR POTENTIAL FOR, POLLUTANTS ENTERING THE DRAINAGE SYSTEM AND THE RECEIVING WATER(S). EROSION AND SEDIMENT CONTROL MEASURES IDENTIFIED IN THE PLAN SHALL BE OBSERVED TO ENSURE THAT THEY ARE OPERATING CORRECTLY. WHERE DISCHARGE LOCATIONS OR POINTS ARE ACCESSIBLE, THEY SHALL BE INSPECTED TO ASCERTAIN WHETHER EROSION CONTROL MEASURES ARE EFFECTIVE IN PREVENTING SIGNIFICANT IMPACTS TO RECEIVING WATER(S).

(5.) BASED ON THE RESULTS OF EACH INSPECTION, THE SITE DESCRIPTION AND THE POLLUTION PREVENTION AND CONTROL MEASURES IDENTIFIED IN THE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN, THE PLAN SHALL BE REVISED AS APPROPRIATE NOT LATER THAN SEVEN (7) CALENDAR DAYS FOLLOWING EACH INSPECTION. IMPLEMENTATION OF SUCH CHANGES SHALL BE MADE AS SOON AS PRACTICAL BUT IN NO CASE LATER THAN SEVEN (7) CALENDAR DAYS FOLLOWING EACH INSPECTION.

(6.) A REPORT OF EACH INSPECTION THAT INCLUDES THE NAME(S) OF CERTIFIED PERSONNEL MAKING EACH INSPECTION, THE DATE(S) OF EACH INSPECTION, CONSTRUCTION PHASE (I.E., INITIAL, INTERMEDIATE OR FINAL), MAJOR OBSERVATIONS RELATING TO THE IMPLEMENTATION OF THE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN, AND ACTIONS TAKEN IN ACCORDANCE WITH PART IV.D.4.A.(5), OF PERMIT SHALL BE MADE AND RETAINED AT THE SITE OR BE READILY AVAILABLE AT A DESIGNATED ALTERNATE LOCATION UNTIL THE ENTIRE SITE OR PORTION OF A CONSTRUCTION PROJECT THAT HAS BEEN PHASED HAS UNDERGONE FINAL STABILIZATION AND A NOTICE OF TERMINATION IS SUBMITTED TO EPD. SUCH REPORTS SHALL BE READILY AVAILABLE BY END OF THE SECOND BUSINESS DAY AND/OR WORKING DAY AND SHALL IDENTIFY ALL INCIDENTS OF BEST MANAGEMENT PRACTICES THAT HAVE NOT BEEN PROPERLY INSTALLED AND/OR MAINTAINED AS DESCRIBED IN THE PLAN. WHERE THE REPORT DOES NOT IDENTIFY ANY INCIDENTS, THE INSPECTION REPORT SHALL CONTAIN A CERTIFICATION THAT THE BEST MANAGEMENT PRACTICES ARE IN COMPLIANCE WITH THE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN. THE REPORT SHALL BE SIGNED IN ACCORDANCE WITH PART V.G.2. OF THIS PERMIT.

**30 SAMPLING REQUIREMENTS SHALL INCLUDE THE FOLLOWING:**

(1) A USGS TOPOGRAPHIC MAP, A TOPOGRAPHIC MAP OR A DRAWING (REFERRED TO AS A TOPOGRAPHIC MAP) THAT IS A SCALE EQUAL TO OR MORE DETAILED THAT A 1:24000 MAP SHOWING THE LOCATION OF THE SITE OR THE STAND ALONE CONSTRUCTION; (A) THE LOCATION OF ALL PERENNIAL AND INTERMITTENT STREAMS AND OTHER WATER BODIES AS SHOWN ON A USGS TOPOGRAPHIC MAP, AND ALL OTHER PERENNIAL AND INTERMITTENT STREAMS AND OTHER WATER BODIES LOCATED DURING MANDATORY FIELD VERIFICATION, INTO WHICH THE STORM WATER IS DISCHARGED AND (B) THE RECEIVING WATER AND/OR OUTFALL SAMPLING LOCATIONS. WHEN THE PERMITTEE HAS CHOSEN TO USE A USGS TOPOGRAPHIC MAP AND THE RECEIVING WATER(S) IS NOT SHOWN ON THE USGS TOPOGRAPHIC MAP, THE LOCATION OF THE RECEIVING WATER(S) MUST BE HAND-DRAWN ON THE USGS TOPOGRAPHIC MAP FROM WHERE THE STORM WATER(S) ENTERS THE RECEIVING WATER(S) TO THE POINT WHERE THE RECEIVING WATER(S) COMBINES WITH THE FIRST BLUE LINE STREAM SHOWN ON THE USGS TOPOGRAPHIC MAP;

(2) A WRITTEN NARRATIVE OF SITE SPECIFIC ANALYTICAL METHODS USED TO COLLECT, HANDLE AND ANALYZE THE SAMPLES INCLUDING QUALITY CONTROL/QUALITY ASSURANCE PROCEDURES. THIS NARRATIVE MUST INCLUDE PRECISE SAMPLING METHODOLOGY FOR EACH SAMPLING LOCATION;

(3) WHEN THE PERMITTEE HAS DETERMINED THAT SOME OR ALL OUTFALLS WILL BE SAMPLED, A RATIONALE MUST BE INCLUDED ON THE PLAN FOR THE NTU LIMIT(S) SELECTED FROM APPENDIX B. THIS RATIONALE MUST INCLUDE THE SIZE OF THE CONSTRUCTION SITE, THE CALCULATION OF THE SIZE OF THE SURFACE WATER DRAINAGE AREA, AND THE TYPE OF RECEIVING WATER(S) (I.E., TROUT STREAM OR SUPPORTING WARM WATER FISHERIES); AND

(4) ANY ADDITIONAL INFORMATION EPD DETERMINES NECESSARY TO BE PART OF THE PLAN. EPD WILL PROVIDE WRITTEN NOTICE TO THE PERMITTEE OF THE INFORMATION NECESSARY AND THE TIME LINE FOR SUBMITTAL.

**31 RETENTION RECORDS**

1. THE PRIMARY PERMITTEE SHALL RETAIN THE FOLLOWING RECORDS AT THE CONSTRUCTION SITE OR THE RECORDS SHALL BE READILY AVAILABLE AT A DESIGNATED ALTERNATE LOCATION FROM COMMENCEMENT OF CONSTRUCTION UNTIL SUCH TIME AS A NOT IS SUBMITTED IN ACCORDANCE WITH PART VI;

- a. A COPY OF ALL NOTICES OF INTENT SUBMITTED TO EPD;
- b. A COPY OF THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN REQUIRED BY THE PERMIT;
- c. THE DESIGN PROFESSIONAL'S REPORT OF THE RESULTS OF THE INSPECTION CONDUCTED IN ACCORDANCE WITH PART IV.A.5. OF THE PERMIT;
- d. A COPY OF ALL SAMPLING INFORMATION, RESULTS, AND REPORTS REQUIRED BY THIS PERMIT;
- e. A COPY OF ALL INSPECTION REPORTS GENERATED IN ACCORDANCE WITH PART IV.D.4.A. OF THIS PERMIT;
- f. A COPY OF ALL VIOLATION SUMMARIES AND VIOLATION SUMMARY REPORTS GENERATED IN ACCORDANCE WITH PART IV.A.5. OF THIS PERMIT; AND
- g. DAILY RAINFALL INFORMATION COLLECTED IN ACCORDANCE WITH PART IV.D.4.A.(2). OF THIS PERMIT.

2. COPIES OF ALL NOTICES OF INTENT, NOTICES OF TERMINATION, INSPECTION REPORTS, SAMPLING REPORTS (INCLUDING ALL CALIBRATION AND MAINTENANCE RECORDS AND ALL ORIGINAL STRIP CHART RECORDINGS FOR CONTINUOUS MONITORING INSTRUMENTATION) OR OTHER REPORTS REQUESTED BY THE EPD, EROSION, SEDIMENTATION AND POLLUTION CONTROL PLANS, RECORDS OF ALL DATA USED TO COMPLETE THE NOTICE OF INTENT TO BE COVERED BY THIS PERMIT AND ALL OTHER RECORDS REQUIRED BY THIS PERMIT SHALL BE RETAINED BY THE PERMITTEE WHO EITHER PRODUCED OR USED IT FOR A PERIOD OF AT LEAST THREE YEARS FROM THE DATE THAT THE NOT IS SUBMITTED IN ACCORDANCE WITH PART VI. OF THIS PERMIT. THESE RECORDS MUST BE MAINTAINED AT THE PERMITTEE'S PRIMARY PLACE OF BUSINESS OR AT A DESIGNATED ALTERNATIVE LOCATION ONCE THE CONSTRUCTION ACTIVITY HAS CEASED AT THE PERMITTED SITE. THIS PERIOD MAY BE EXTENDED BY REQUEST OF THE EPD AT ANY TIME UPON WRITTEN NOTIFICATION TO THE PERMITTEE.

**32/33 SAMPLE ANALYSIS**

STORMWATER SAMPLES ARE TO BE ANALYZED IN ACCORDANCE WITH METHODOLOGY AND TEST PROCEDURES ESTABLISHED BY 40 CFR PART 136 AND THE GUIDANCE DOCUMENT TITLED "NPDES STORMWATER SAMPLING GUIDANCE DOCUMENT, EPA 833-B-92-001."

STORMWATER IS TO BE SAMPLED FOR NEPHELOMETRIC TURBIDITY UNITS (NTU) AT THE OUTFALL LOCATION A DISCHARGE OF STORMWATER RUNOFF FROM DISTURBED AREAS WHERE BEST MANAGEMENT PRACTICES HAVE NOT BEEN PROPERLY DESIGNED, INSTALLED, AND MAINTAINED SHALL CONSTITUTE A SEPARATE VIOLATION FOR EACH DAY ON WHICH SUCH CONDITION RESULTS IN THE TURBIDITY OF THE DISCHARGE EXCEEDING 75, THE VALUE THAT WAS SELECTED FROM APPENDIX B IN PERMIT NO. GAR 100001. THE NTU IS BASED UPON THE DISTURBED ACREAGE OF 1.62 ACRES FOR THE PROJECT SITE. THE SURFACE WATER DRAINAGE AREA OF 0.002 SQUARE MILES, AND RECEIVING WATER WHICH SUPPORTS WARM WATER FISHERIES.

**44 RUNOFF COEFFICIENT**

- WEIGHTED PRE-CONSTRUCTION CN CURVE NUMBER: 74 25-YEAR EVENT RUNOFF ESTIMATE: 11.83 CFS
- WEIGHTED POST-CONSTRUCTION CN CURVE NUMBER: 84 25-YEAR EVENT RUNOFF ESTIMATE: 2.1 CFS

**48 SEDIMENT STORAGE CALCULATIONS:**

BASIN	DISTURBED AREA, A	REQUIRED STORAGE VOLUME, Sv <sub>v</sub> (A*67cy)	STORAGE METHOD	PROVIDED STORAGE VOLUME, Sv <sub>v</sub>	REQUIREMENT MET?
1	1.62ac	108.5 CY	EXISTING SEDIMENT POND	110(±)CY	YES

ES&PC ITEM# **26/27**  
UPON COMPLETION OF THIS PROJECT THE CONTRACTOR SHALL REMOVE ALL EROSION CONTROL MEASURES EXCEPT AS NOTED ON THE PLANS.

**29 INSPECTIONS**

(1.) EACH DAY WHEN ANY TYPE OF CONSTRUCTION ACTIVITY HAS TAKEN PLACE AT A PRIMARY PERMITTEE'S SITE, CERTIFIED PERSONNEL PROVIDED BY THE PRIMARY PERMITTEE SHALL INSPECT:  
A. ALL AREAS A THE PRIMARY PERMITTEE'S SITE WHERE PETROLEUM PRODUCTS ARE STORED, USED, OR HANDLED FOR SPILLS AND LEAKS FROM VEHICLES AND EQUIPMENT AND  
B. ALL LOCATIONS AT THE PRIMARY PERMITTEE'S SITE WHERE VEHICLES ENTER OR EXIT THE SITE FOR EVIDENCE OF OFF-SITE SEDIMENT TRACKING.  
THESE INSPECTIONS MUST BE CONDUCTED UNTIL A NOTICE OF TERMINATION IS SUBMITTED.

(2.) MEASURE RAINFALL ONCE EVERY 24-HOURS EXPECT ANY NON-WORKING SATURDAY, NON-WORKING SUNDAY AND NON-WORKING FEDERAL HOLIDAY UNTIL A NOTICE OF TERMINATION IS SUBMITTED. MEASUREMENT OF RAINFALL MAY BE SUSPENDED IF ALL AREAS OF THE SITE HAVE UNDERGONE FINAL STABILIZATION OR ESTABLISHED A CROP OF ANNUAL VEGETATION AND SEEDING OF TARGET PERENNIALS APPROPRIATE OF THE REGION.

(3.) CERTIFIED PERSONNEL (PROVIDED BY THE PRIMARY PERMITTEE) SHALL INSPECT THE FOLLOWING AT LEAST ONCE EVERY SEVEN (7) CALENDAR DAYS AND WITHIN 24 HOURS OF THE END OF A STORM THAT IS 0.5 INCHES RAINFALL OR GREATER (UNLESS SUCH STORM ENDS AFTER 5:00 PM ON ANY FRIDAY OR ON ANY NON-WORKING SATURDAY, NON-WORKING SUNDAY OR ANY NON-WORKING FEDERAL HOLIDAY IN WHICH CASE THE INSPECTION SHALL BE COMPLETED BY THE END OF THE NEXT BUSINESS DAY AND/OR WORKING DAY, WHICHEVER OCCURS FIRST): (A) DISTURBED AREAS OF PRIMARY PERMITTEE'S CONSTRUCTION SITE ; (B) AREAS USED BY THE PRIMARY PERMITTEE FOR STORAGE OF MATERIALS THAT ARE EXPOSED TO PRECIPITATION ; AND (C) STRUCTURAL CONTROL MEASURES. EROSION AND SEDIMENT CONTROL MEASURES IDENTIFIED IN THE PLAN APPLICABLE TO THE PRIMARY PERMITTEE'S SITE SHALL BE ENSURED THAT THEY ARE OPERATING CORRECTLY. WHERE DISCHARGE LOCATIONS OR POINTS ARE ACCESSIBLE, THEY SHALL BE INSPECTED TO ASCERTAIN WHETHER EROSION CONTROL MEASURES ARE EFFECTIVE IN PREVENTING SIGNIFICANT IMPACTS TO RECEIVING WATER(S). AREAS OF A SITE THAT HAVE UNDERGONE FINAL STABILIZATION OR ESTABLISHED A CROP OF ANNUAL VEGETATION AND A SEEDING TARGET PERENNIALS APPROPRIATE FOR THE REGION, THE PERMITTEE MUST COMPLY WITH PART IV.D.4.A.(4). THESE INSPECTIONS MUST BE CONDUCTED UNTIL NOTICE OF TERMINATION IS SUBMITTED.

(4.) CERTIFIED PERSONNEL (PROVIDED BY THE PRIMARY PERMITTEE) SHALL INSPECT AT LEAST ONCE PER MONTH DURING THE TERM OF THIS PERMIT (I.E., UNTIL NOTICE OF TERMINATION IS RECEIVED BY EPD) THE AREAS OF THE SITE THAT HAVE UNDERGONE FINAL STABILIZATION OR ESTABLISHED A CROP OF ANNUAL VEGETATION AND A SEEDING OF TARGET PERENNIALS APPROPRIATE FOR THE REGION. THESE AREAS SHALL BE INSPECTED FOR EVIDENCE OF, OR POTENTIAL FOR, POLLUTANTS ENTERING THE DRAINAGE SYSTEM AND THE RECEIVING WATER(S). EROSION AND SEDIMENT CONTROL MEASURES IDENTIFIED IN THE PLAN SHALL BE OBSERVED TO ENSURE THAT THEY ARE OPERATING CORRECTLY. WHERE DISCHARGE LOCATIONS OR POINTS ARE ACCESSIBLE, THEY SHALL BE INSPECTED TO ASCERTAIN WHETHER EROSION CONTROL MEASURES ARE EFFECTIVE IN PREVENTING SIGNIFICANT IMPACTS TO RECEIVING WATER(S).

(5.) BASED ON THE RESULTS OF EACH INSPECTION, THE SITE DESCRIPTION AND THE POLLUTION PREVENTION AND CONTROL MEASURES IDENTIFIED IN THE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN, THE PLAN SHALL BE REVISED AS APPROPRIATE NOT LATER THAN SEVEN (7) CALENDAR DAYS FOLLOWING EACH INSPECTION. IMPLEMENTATION OF SUCH CHANGES SHALL BE MADE AS SOON AS PRACTICAL BUT IN NO CASE LATER THAN SEVEN (7) CALENDAR DAYS FOLLOWING EACH INSPECTION.

(6.) A REPORT OF EACH INSPECTION THAT INCLUDES THE NAME(S) OF CERTIFIED PERSONNEL MAKING EACH INSPECTION, THE DATE(S) OF EACH INSPECTION, CONSTRUCTION PHASE (I.E., INITIAL, INTERMEDIATE OR FINAL), MAJOR OBSERVATIONS RELATING TO THE IMPLEMENTATION OF THE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN, AND ACTIONS TAKEN IN ACCORDANCE WITH PART IV.D.4.A.(5), OF PERMIT SHALL BE MADE AND RETAINED AT THE SITE OR BE READILY AVAILABLE AT A DESIGNATED ALTERNATE LOCATION UNTIL THE ENTIRE SITE OR PORTION OF A CONSTRUCTION PROJECT THAT HAS BEEN PHASED HAS UNDERGONE FINAL STABILIZATION AND A NOTICE OF TERMINATION IS SUBMITTED TO EPD. SUCH REPORTS SHALL BE READILY AVAILABLE BY END OF THE SECOND BUSINESS DAY AND/OR WORKING DAY AND SHALL IDENTIFY ALL INCIDENTS OF BEST MANAGEMENT PRACTICES THAT HAVE NOT BEEN PROPERLY INSTALLED AND/OR MAINTAINED AS DESCRIBED IN THE PLAN. WHERE THE REPORT DOES NOT IDENTIFY ANY INCIDENTS, THE INSPECTION REPORT SHALL CONTAIN A CERTIFICATION THAT THE BEST MANAGEMENT PRACTICES ARE IN COMPLIANCE WITH THE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN. THE REPORT SHALL BE SIGNED IN ACCORDANCE WITH PART V.G.2. OF THIS PERMIT.

**30 SAMPLING REQUIREMENTS SHALL INCLUDE THE FOLLOWING:**

(1) A USGS TOPOGRAPHIC MAP, A TOPOGRAPHIC MAP OR A DRAWING (REFERRED TO AS A TOPOGRAPHIC MAP) THAT IS A SCALE EQUAL TO OR MORE DETAILED THAT A 1:24000 MAP SHOWING THE LOCATION OF THE SITE OR THE STAND ALONE CONSTRUCTION; (A) THE LOCATION OF ALL PERENNIAL AND INTERMITTENT STREAMS AND OTHER WATER BODIES AS SHOWN ON A USGS TOPOGRAPHIC MAP, AND ALL OTHER PERENNIAL AND INTERMITTENT STREAMS AND OTHER WATER BODIES LOCATED DURING MANDATORY FIELD VERIFICATION, INTO WHICH THE STORM WATER IS DISCHARGED AND (B) THE RECEIVING WATER AND/OR OUTFALL SAMPLING LOCATIONS. WHEN THE PERMITTEE HAS CHOSEN TO USE A USGS TOPOGRAPHIC MAP AND THE RECEIVING WATER(S) IS NOT SHOWN ON THE USGS TOPOGRAPHIC MAP, THE LOCATION OF THE RECEIVING WATER(S) MUST BE HAND-DRAWN ON THE USGS TOPOGRAPHIC MAP FROM WHERE THE STORM WATER(S) ENTERS THE RECEIVING WATER(S) TO THE POINT WHERE THE RECEIVING WATER(S) COMBINES WITH THE FIRST BLUE LINE STREAM SHOWN ON THE USGS TOPOGRAPHIC MAP;

(2) A WRITTEN NARRATIVE OF SITE SPECIFIC ANALYTICAL METHODS USED TO COLLECT, HANDLE AND ANALYZE THE SAMPLES INCLUDING QUALITY CONTROL/QUALITY ASSURANCE PROCEDURES. THIS NARRATIVE MUST INCLUDE PRECISE SAMPLING METHODOLOGY FOR EACH SAMPLING LOCATION;

(3) WHEN THE PERMITTEE HAS DETERMINED THAT SOME OR ALL OUTFALLS WILL BE SAMPLED, A RATIONALE MUST BE INCLUDED ON THE PLAN FOR THE NTU LIMIT(S) SELECTED FROM APPENDIX B. THIS RATIONALE MUST INCLUDE THE SIZE OF THE CONSTRUCTION SITE, THE CALCULATION OF THE SIZE OF THE SURFACE WATER DRAINAGE AREA, AND THE TYPE OF RECEIVING WATER(S) (I.E., TROUT STREAM OR SUPPORTING WARM WATER FISHERIES); AND

(4) ANY ADDITIONAL INFORMATION EPD DETERMINES NECESSARY TO BE PART OF THE PLAN. EPD WILL PROVIDE WRITTEN NOTICE TO THE PERMITTEE OF THE INFORMATION NECESSARY AND THE TIME LINE FOR SUBMITTAL.

**31 RETENTION RECORDS**

1. THE PRIMARY PERMITTEE SHALL RETAIN THE FOLLOWING RECORDS AT THE CONSTRUCTION SITE OR THE RECORDS SHALL BE READILY AVAILABLE AT A DESIGNATED ALTERNATE LOCATION FROM COMMENCEMENT OF CONSTRUCTION UNTIL SUCH TIME AS A NOT IS SUBMITTED IN ACCORDANCE WITH PART VI;

- a. A COPY OF ALL NOTICES OF INTENT SUBMITTED TO EPD;
- b. A COPY OF THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN REQUIRED BY THE PERMIT;
- c. THE DESIGN PROFESSIONAL'S REPORT OF THE RESULTS OF THE INSPECTION CONDUCTED IN ACCORDANCE WITH PART IV.A.5. OF THE PERMIT;
- d. A COPY OF ALL SAMPLING INFORMATION, RESULTS, AND REPORTS REQUIRED BY THIS PERMIT;
- e. A COPY OF ALL INSPECTION REPORTS GENERATED IN ACCORDANCE WITH PART IV.D.4.A. OF THIS PERMIT;
- f. A COPY OF ALL VIOLATION SUMMARIES AND VIOLATION SUMMARY REPORTS GENERATED IN ACCORDANCE WITH PART IV.A.5. OF THIS PERMIT; AND
- g. DAILY RAINFALL INFORMATION COLLECTED IN ACCORDANCE WITH PART IV.D.4.A.(2). OF THIS PERMIT.

2. COPIES OF ALL NOTICES OF INTENT, NOTICES OF TERMINATION, INSPECTION REPORTS, SAMPLING REPORTS (INCLUDING ALL CALIBRATION AND MAINTENANCE RECORDS AND ALL ORIGINAL STRIP CHART RECORDINGS FOR CONTINUOUS MONITORING INSTRUMENTATION) OR OTHER REPORTS REQUESTED BY THE EPD, EROSION, SEDIMENTATION AND POLLUTION CONTROL PLANS, RECORDS OF ALL DATA USED TO COMPLETE THE NOTICE OF INTENT TO BE COVERED BY THIS PERMIT AND ALL OTHER RECORDS REQUIRED BY THIS PERMIT SHALL BE RETAINED BY THE PERMITTEE WHO EITHER PRODUCED OR USED IT FOR A PERIOD OF AT LEAST THREE YEARS FROM THE DATE THAT THE NOT IS SUBMITTED IN ACCORDANCE WITH PART VI. OF THIS PERMIT. THESE RECORDS MUST BE MAINTAINED AT THE PERMITTEE'S PRIMARY PLACE OF BUSINESS OR AT A DESIGNATED ALTERNATIVE LOCATION ONCE THE CONSTRUCTION ACTIVITY HAS CEASED AT THE PERMITTED SITE. THIS PERIOD MAY BE EXTENDED BY REQUEST OF THE EPD AT ANY TIME UPON WRITTEN NOTIFICATION TO THE PERMITTEE.

**32/33 SAMPLE ANALYSIS**

STORMWATER SAMPLES ARE TO BE ANALYZED IN ACCORDANCE WITH METHODOLOGY AND TEST PROCEDURES ESTABLISHED BY 40 CFR PART 136 AND THE GUIDANCE DOCUMENT TITLED "NPDES STORMWATER SAMPLING GUIDANCE DOCUMENT, EPA 833-B-92-001."

STORMWATER IS TO BE SAMPLED FOR NEPHELOMETRIC TURBIDITY UNITS (NTU) AT THE OUTFALL LOCATION A DISCHARGE OF STORMWATER RUNOFF FROM DISTURBED AREAS WHERE BEST MANAGEMENT PRACTICES HAVE NOT BEEN PROPERLY DESIGNED, INSTALLED, AND MAINTAINED SHALL CONSTITUTE A SEPARATE VIOLATION FOR EACH DAY ON WHICH SUCH CONDITION RESULTS IN THE TURBIDITY OF THE DISCHARGE EXCEEDING 75, THE VALUE THAT WAS SELECTED FROM APPENDIX B IN PERMIT NO. GAR 100001. THE NTU IS BASED UPON THE DISTURBED ACREAGE OF 1.62 ACRES FOR THE PROJECT SITE. THE SURFACE WATER DRAINAGE AREA OF 0.002 SQUARE MILES, AND RECEIVING WATER WHICH SUPPORTS WARM WATER FISHERIES.

**44 RUNOFF COEFFICIENT**

- WEIGHTED PRE-CONSTRUCTION CN CURVE NUMBER: 74 25-YEAR EVENT RUNOFF ESTIMATE: 11.83 CFS
- WEIGHTED POST-CONSTRUCTION CN CURVE NUMBER: 84 25-YEAR EVENT RUNOFF ESTIMATE: 2.1 CFS

**48 SEDIMENT STORAGE CALCULATIONS:**

BASIN	DISTURBED AREA, A	REQUIRED STORAGE VOLUME, Sv <sub>v</sub> (A*67cy)	STORAGE METHOD	PROVIDED STORAGE VOLUME, Sv <sub>v</sub>	REQUIREMENT MET?
1	1.62ac	108.5 CY	EXISTING SEDIMENT POND	110(±)CY	YES

ES&PC ITEM# **26/27**  
UPON COMPLETION OF THIS PROJECT THE CONTRACTOR SHALL REMOVE ALL EROSION CONTROL MEASURES EXCEPT AS NOTED ON THE PLANS.

**29 INSPECTIONS**

(1.) EACH DAY WHEN ANY TYPE OF CONSTRUCTION ACTIVITY HAS TAKEN PLACE AT A PRIMARY PERMITTEE'S SITE, CERTIFIED PERSONNEL PROVIDED BY THE PRIMARY PERMITTEE SHALL INSPECT:  
A. ALL AREAS A THE PRIMARY PERMITTEE'S SITE WHERE PETROLEUM PRODUCTS ARE STORED, USED, OR HANDLED FOR SPILLS AND LEAKS FROM VEHICLES AND EQUIPMENT AND  
B. ALL LOCATIONS AT THE PRIMARY PERMITTEE'S SITE WHERE VEHICLES ENTER OR EXIT THE SITE FOR EVIDENCE OF OFF-SITE SEDIMENT TRACKING.  
THESE INSPECTIONS MUST BE CONDUCTED UNTIL A NOTICE OF TERMINATION IS SUBMITTED.

(2.) MEASURE RAINFALL ONCE EVERY 24-HOURS EXPECT ANY NON-WORKING SATURDAY, NON-WORKING SUNDAY AND NON-WORKING FEDERAL HOLIDAY UNTIL A NOTICE OF TERMINATION IS SUBMITTED. MEASUREMENT OF RAINFALL MAY BE SUSPENDED IF ALL AREAS OF THE SITE HAVE UNDERGONE FINAL STABILIZATION OR ESTABLISHED A CROP OF ANNUAL VEGETATION AND SEEDING OF TARGET PERENNIALS APPROPRIATE OF THE REGION.

(3.) CERTIFIED PERSONNEL (PROVIDED BY THE PRIMARY PERMITTEE) SHALL INSPECT THE FOLLOWING AT LEAST ONCE EVERY SEVEN (7) CALENDAR DAYS AND WITHIN 24 HOURS OF THE END OF A STORM THAT IS 0.5 INCHES RAINFALL OR GREATER (UNLESS SUCH STORM ENDS AFTER 5:00 PM ON ANY FRIDAY OR ON ANY NON-WORKING SATURDAY, NON-WORKING SUNDAY OR ANY NON-WORKING FEDERAL HOLIDAY IN WHICH CASE THE INSPECTION SHALL BE COMPLETED BY THE END OF THE NEXT BUSINESS DAY AND/OR WORKING DAY, WHICHEVER OCCURS FIRST): (A) DISTURBED AREAS OF PRIMARY PERMITTEE'S CONSTRUCTION SITE ; (B) AREAS USED BY THE PRIMARY PERMITTEE FOR STORAGE OF MATERIALS THAT ARE EXPOSED TO PRECIPITATION ; AND (C) STRUCTURAL CONTROL MEASURES. EROSION AND SEDIMENT CONTROL MEASURES IDENTIFIED IN THE PLAN APPLICABLE TO THE PRIMARY PERMITTEE'S SITE SHALL BE ENSURED THAT THEY ARE OPERATING CORRECTLY. WHERE DISCHARGE LOCATIONS OR POINTS ARE ACCESSIBLE, THEY SHALL BE INSPECTED TO ASCERTAIN WHETHER EROSION CONTROL MEASURES ARE EFFECTIVE IN PREVENTING SIGNIFICANT IMPACTS TO RECEIVING WATER(S). AREAS OF A SITE THAT HAVE UNDERGONE FINAL STABILIZATION OR ESTABLISHED A CROP OF ANNUAL VEGETATION AND A SEEDING TARGET PERENNIALS APPROPRIATE FOR THE REGION, THE PERMITTEE MUST COMPLY WITH PART IV.D.4.A.(4). THESE INSPECTIONS MUST BE CONDUCTED UNTIL NOTICE OF TERMINATION IS SUBMITTED.

(4.) CERTIFIED PERSONNEL (PROVIDED BY THE PRIMARY PERMITTEE) SHALL INSPECT AT LEAST ONCE PER MONTH DURING THE TERM OF THIS PERMIT (I.E., UNTIL NOTICE OF TERMINATION IS RECEIVED BY EPD) THE AREAS OF THE SITE THAT HAVE UNDERGONE FINAL STABILIZATION OR ESTABLISHED A CROP OF ANNUAL VEGETATION AND A SEEDING OF TARGET PERENNIALS APPROPRIATE FOR THE REGION. THESE AREAS SHALL BE INSPECTED FOR EVIDENCE OF, OR POTENTIAL FOR, POLLUTANTS ENTERING THE DRAINAGE SYSTEM AND THE RECEIVING WATER(S). EROSION AND SEDIMENT CONTROL MEASURES IDENTIFIED IN THE PLAN SHALL BE OBSERVED TO ENSURE THAT THEY ARE OPERATING CORRECTLY. WHERE DISCHARGE LOCATIONS OR POINTS ARE ACCESSIBLE, THEY SHALL BE INSPECTED TO ASCERTAIN WHETHER EROSION CONTROL MEASURES ARE EFFECTIVE IN PREVENTING SIGNIFICANT IMPACTS TO RECEIVING WATER(S).

(5.) BASED ON THE RESULTS OF EACH INSPECTION, THE SITE DESCRIPTION AND THE POLLUTION PREVENTION AND CONTROL MEASURES IDENTIFIED IN THE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN, THE PLAN SHALL BE REVISED AS APPROPRIATE NOT LATER THAN SEVEN (7) CALENDAR DAYS FOLLOWING EACH INSPECTION. IMPLEMENTATION OF SUCH CHANGES SHALL BE MADE AS SOON AS PRACTICAL BUT IN NO CASE LATER THAN SEVEN (7) CALENDAR DAYS FOLLOWING EACH INSPECTION.

(6.) A REPORT OF EACH INSPECTION THAT INCLUDES THE NAME(S) OF CERTIFIED PERSONNEL MAKING EACH INSPECTION, THE DATE(S) OF EACH INSPECTION, CONSTRUCTION PHASE (I.E., INITIAL, INTERMEDIATE OR FINAL), MAJOR OBSERVATIONS RELATING TO THE IMPLEMENTATION OF THE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN, AND ACTIONS TAKEN IN ACCORDANCE WITH PART IV.D.4.A.(5), OF PERMIT SHALL BE MADE AND RETAINED AT THE SITE OR BE READILY AVAILABLE AT A DESIGNATED ALTERNATE LOCATION UNTIL THE ENTIRE SITE OR PORTION OF A CONSTRUCTION PROJECT THAT HAS BEEN PHASED HAS UNDERGONE FINAL STABILIZATION AND A NOTICE OF TERMINATION IS SUBMITTED TO EPD. SUCH REPORTS SHALL BE READILY AVAILABLE BY END OF THE SECOND BUSINESS DAY AND/OR WORKING DAY AND SHALL IDENTIFY ALL INCIDENTS OF BEST MANAGEMENT PRACTICES THAT HAVE NOT BEEN PROPERLY INSTALLED AND/OR MAINTAINED AS DESCRIBED IN THE PLAN. WHERE THE REPORT DOES NOT IDENTIFY ANY INCIDENTS, THE INSPECTION REPORT SHALL CONTAIN A CERTIFICATION THAT THE BEST MANAGEMENT PRACTICES ARE IN COMPLIANCE WITH THE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN. THE REPORT SHALL BE SIGNED IN ACCORDANCE WITH PART V.G.2. OF THIS PERMIT.

**30 SAMPLING REQUIREMENTS SHALL INCLUDE THE FOLLOWING:**

(1) A USGS TOPOGRAPHIC MAP, A TOPOGRAPHIC MAP OR A DRAWING (REFERRED TO AS A TOPOGRAPHIC MAP) THAT IS A SCALE EQUAL TO OR MORE DETAILED THAT A 1:24000 MAP SHOWING THE LOCATION OF THE SITE OR THE STAND ALONE CONSTRUCTION; (A) THE LOCATION OF ALL PERENNIAL AND INTERMITTENT STREAMS AND OTHER WATER BODIES AS SHOWN ON A USGS TOPOGRAPHIC MAP, AND ALL OTHER PERENNIAL AND INTERMITTENT STREAMS AND OTHER WATER BODIES LOCATED DURING MANDATORY FIELD VERIFICATION, INTO WHICH THE STORM WATER IS DISCHARGED AND (B) THE RECEIVING WATER AND/OR OUTFALL SAMPLING LOCATIONS. WHEN THE PERMITTEE HAS CHOSEN TO USE A USGS TOPOGRAPHIC MAP AND THE RECEIVING WATER(S) IS NOT SHOWN ON THE USGS TOPOGRAPHIC MAP, THE LOCATION OF THE RECEIVING WATER(S) MUST BE HAND-DRAWN ON THE USGS TOPOGRAPHIC MAP FROM WHERE THE STORM WATER(S) ENTERS THE RECEIVING WATER(S) TO THE POINT WHERE THE RECEIVING WATER(S) COMBINES WITH THE FIRST BLUE LINE STREAM SHOWN ON THE USGS TOPOGRAPHIC MAP;

(2) A WRITTEN NARRATIVE OF SITE SPECIFIC ANALYTICAL METHODS USED TO COLLECT, HANDLE AND ANALYZE THE SAMPLES INCLUDING QUALITY CONTROL/QUALITY ASSURANCE PROCEDURES. THIS NARRATIVE MUST INCLUDE PRECISE SAMPLING METHODOLOGY FOR EACH SAMPLING LOCATION;

(3) WHEN THE PERMITTEE HAS DETERMINED THAT SOME OR ALL OUTFALLS WILL BE SAMPLED, A RATIONALE MUST BE INCLUDED ON THE PLAN FOR THE NTU LIMIT(S) SELECTED FROM APPENDIX B. THIS RATIONALE MUST INCLUDE THE SIZE OF THE CONSTRUCTION SITE, THE CALCULATION OF THE SIZE OF THE SURFACE WATER DRAINAGE AREA, AND THE TYPE OF RECEIVING WATER(S) (I.E., TROUT STREAM OR SUPPORTING WARM WATER FISHERIES); AND

(4) ANY ADDITIONAL INFORMATION EPD DETERMINES NECESSARY TO BE PART OF THE PLAN. EPD WILL PROVIDE WRITTEN NOTICE TO THE PERMITTEE OF THE INFORMATION NECESSARY AND THE TIME LINE FOR SUBMITTAL.

**31 RETENTION RECORDS**

1. THE PRIMARY PERMITTEE SHALL RETAIN THE FOLLOWING RECORDS AT THE CONSTRUCTION SITE OR THE RECORDS SHALL BE READILY AVAILABLE AT A DESIGNATED ALTERNATE LOCATION FROM COMMENCEMENT OF CONSTRUCTION UNTIL SUCH TIME AS A NOT IS SUBMITTED IN ACCORDANCE WITH PART VI;

- a. A COPY OF ALL NOTICES OF INTENT SUBMITTED TO EPD;
- b. A COPY OF THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN REQUIRED BY THE PERMIT;
- c. THE DESIGN PROFESSIONAL'S REPORT OF THE RESULTS OF THE INSPECTION CONDUCTED IN ACCORDANCE WITH PART IV.A.5. OF THE PERMIT;
- d. A COPY OF ALL SAMPLING INFORMATION, RESULTS, AND REPORTS REQUIRED BY THIS PERMIT;
- e. A COPY OF ALL INSPECTION REPORTS GENERATED IN ACCORDANCE WITH PART IV.D.4.A. OF THIS PERMIT;
- f. A COPY OF ALL VIOLATION SUMMARIES AND VIOLATION SUMMARY REPORTS GENERATED IN ACCORDANCE WITH PART IV.A.5. OF THIS PERMIT; AND
- g. DAILY RAINFALL INFORMATION COLLECTED IN ACCORDANCE WITH PART IV.D.4.A.(2). OF THIS PERMIT.

2. COPIES OF ALL NOTICES OF INTENT, NOTICES OF TERMINATION, INSPECTION REPORTS, SAMPLING REPORTS (INCLUDING ALL CALIBRATION AND MAINTENANCE RECORDS AND ALL ORIGINAL STRIP CHART RECORDINGS FOR CONTINUOUS MONITORING INSTRUMENTATION) OR OTHER REPORTS REQUESTED BY THE EPD, EROSION, SEDIMENTATION AND POLLUTION CONTROL PLANS, RECORDS OF ALL DATA USED TO COMPLETE THE NOTICE OF INTENT TO BE COVERED BY THIS PERMIT AND ALL OTHER RECORDS REQUIRED BY THIS PERMIT SHALL BE RETAINED BY THE PERMITTEE WHO EITHER PRODUCED OR USED IT FOR A PERIOD OF AT LEAST THREE YEARS FROM THE DATE THAT THE NOT IS SUBMITTED IN ACCORDANCE WITH PART VI. OF THIS PERMIT. THESE RECORDS MUST BE MAINTAINED AT THE PERMITTEE'S PRIMARY PLACE OF BUSINESS OR AT A DESIGNATED ALTERNATIVE LOCATION ONCE THE CONSTRUCTION ACTIVITY HAS CEASED AT THE PERMITTED SITE. THIS PERIOD MAY BE EXTENDED BY REQUEST OF THE EPD AT ANY TIME UPON WRITTEN NOTIFICATION TO THE PERMITTEE.

**32/33 SAMPLE ANALYSIS**

STORMWATER SAMPLES ARE TO BE ANALYZED IN ACCORDANCE WITH METHODOLOGY AND TEST PROCEDURES ESTABLISHED BY 40 CFR PART 136 AND THE GUIDANCE DOCUMENT TITLED "NPDES STORMWATER SAMPLING GUIDANCE DOCUMENT, EPA 833-B-92-001."

STORMWATER IS TO BE SAMPLED FOR NEPHELOMETRIC TURBIDITY UNITS (



# UNIFORM CODING SYSTEM

## FOR SOIL EROSION AND SEDIMENT CONTROL PRACTICES

### GEORGIA SOIL AND WATER CONSERVATION COMMISSION

#### STRUCTURAL PRACTICES

CODE	PRACTICE	DETAIL	MAP SYMBOL	DESCRIPTION
Cd	CHECKDAM			A small temporary barrier or dam constructed across a swale, drainage ditch or area of concentrated flow.
Ch	CHANNEL STABILIZATION			Improving, constructing or stabilizing an open channel, existing stream, or ditch.
Co	CONSTRUCTION EXIT			A crushed stone pad located at the construction site exit to provide a place for removing mud from tires thereby protecting public streets.
Cr	CONSTRUCTION ROAD STABILIZATION			A travelway constructed as part of a construction plan including access roads, subdivision roads, parking areas and other on-site vehicle transportation routes.
Dc	STREAM DIVERSION CHANNEL			A temporary channel constructed to convey flow around a construction site while a permanent structure is being constructed.
Di	DIVERSION			An earth channel or dike located above, below or across a slope to divert runoff. This may be a temporary or permanent structure.
Dn1	TEMPORARY DOWNDRAIN STRUCTURE			A flexible conduit of heavy-duty fabric or other material designed to safely conduct surface runoff down a slope. This is temporary and inexpensive.
Dn2	PERMANENT DOWNDRAIN STRUCTURE			A paved chute, pipe, sectional conduit or similar material designed to safely conduct surface runoff down a slope.
Fr	FILTER RING			A temporary stone barrier constructed at storm drain inlets and pond outlets.
Ga	GABION			Rock filter baskets which are hand-placed into position forming soil stabilizing structures.
Gr	GRADE STABILIZATION STRUCTURE			Permanent structures installed to protect channels or waterways where otherwise the slope would be sufficient for the running water to form gullies.
Lv	LEVEL SPREADER			A structure to convert concentrated flow of water into less erosive sheet flow. This should be constructed only on undisturbed soils.
Rd	ROCK FILTER DAM			A permanent or temporary stone filter dam installed across small streams or drainageways.
Re	RETAINING WALL			A wall installed to stabilize cut and fill slopes where maximum permissible slopes are not obtainable. Each situation will require special design.
Rt	RETRO FITTING			A device or structure placed in front of a permanent stormwater detention pond outlet structure to serve as a temporary sediment filter.
Sd1	SEDIMENT BARRIER			A barrier to prevent sediment from leaving the construction site. It may be sandbags, bales of straw or hay, brush, logs and poles, gravel, or a silt fence.
Sd2	INLET SEDIMENT TRAP			An impounding area created by excavating around a storm drain drop inlet. The excavated area will be filled and stabilized on completion of construction activities.
Sd3	TEMPORARY SEDIMENT BASIN			A basin created by excavation or a dam across a waterway. The surface water runoff is temporarily stored allowing the bulk of the sediment to drop out.
Sd4	TEMPORARY SEDIMENT TRAP			A small temporary pond that drains a disturbed area so that sediment can settle out. The principle feature distinguishing a temporary sediment trap from a temporary sediment basin is the lack of a pipe or riser.
Sk	FLOATING SURFACE SKIMMER			A buoyant device that releases/drains water from the surface of sediment ponds, traps, or basins at a controlled rate of flow.
Spb	SEEP BERM			Linear control device constructed as a diversion perpendicular to the direction of runoff to enhance dissipation and infiltration, while creating multiple sedimentation chambers with the employment of intermediate dikes.

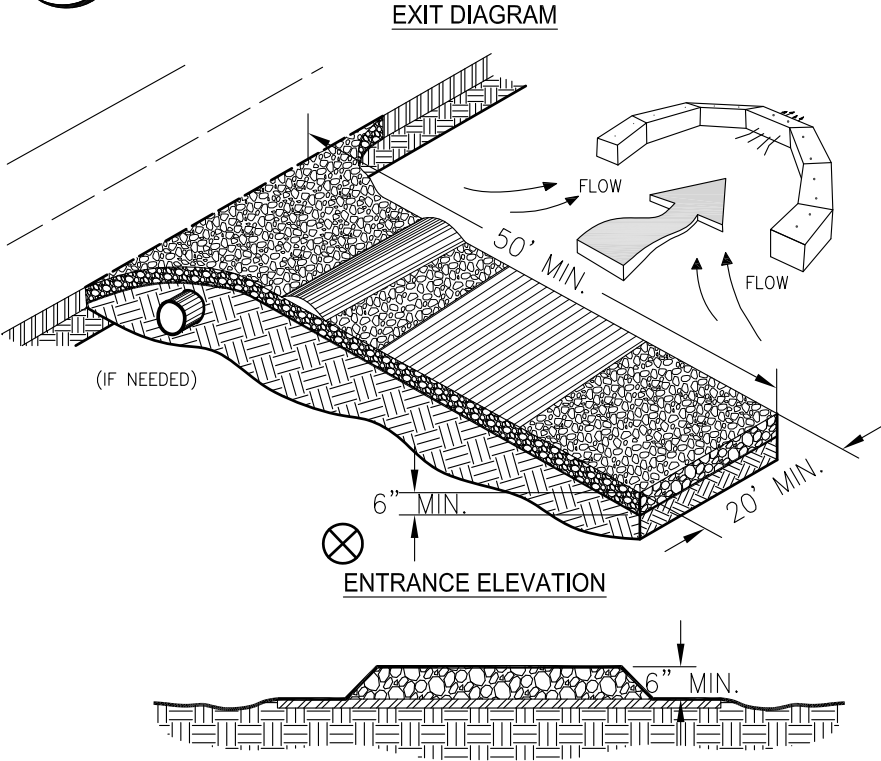
#### STRUCTURAL PRACTICES

CODE	PRACTICE	DETAIL	MAP SYMBOL	DESCRIPTION
Sr	TEMPORARY STREAM CROSSING			A temporary bridge or culvert-type structure protecting a stream or watercourse from damage by crossing construction equipment.
St	STORMDRAIN OUTLET PROTECTION			A paved or short section of riprap channel at the outlet of a storm drain system preventing erosion from the concentrated runoff.
Su	SURFACE ROUGHENING			A rough soil surface with horizontal depressions on a contour or slopes left in a roughened condition after grading.
Tc	TURBIDITY CURTAIN			A floating or staked barrier installed within the water (it may also be referred to as a floating boom, silt barrier, or silt curtain).
Tp	TOPSOILING			The practice of stripping off the more fertile soil, storing it, then spreading it over the disturbed area after completion of construction activities.
Tr	TREE PROTECTION			To protect desirable trees from injury during construction activity.
Wt	VEGETATED WATERWAY OR STORMWATER CONVEYANCE CHANNEL			Paved or vegetative water outlets for diversions, terraces, berms, dikes or similar structures.

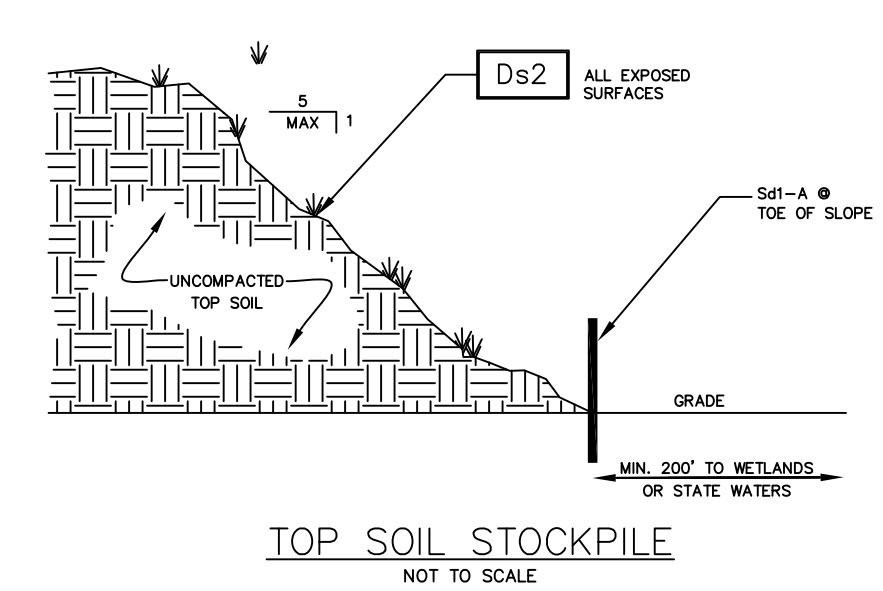
#### VEGETATIVE PRACTICES

CODE	PRACTICE	DETAIL	MAP SYMBOL	DESCRIPTION
Bf	BUFFER ZONE			Strip of undisturbed original vegetation, enhanced or restored existing vegetation or the reestablishment of vegetation surrounding an area of disturbance or bordering streams.
Cs	COASTAL DUNE STABILIZATION (WITH VEGETATION)			Planting vegetation on dunes that are denuded, artificially constructed, or re-nourished.
Ds1	DISTURBED AREA STABILIZATION (WITH MULCHING ONLY)			Establishing temporary protection for disturbed areas where seedlings may not have a suitable growing season to produce an erosion retarding cover.
Ds2	DISTURBED AREA STABILIZATION (WITH TEMP SEEDING)			Establishing a temporary vegetative cover with fast growing seedlings on disturbed areas.
Ds3	DISTURBED AREA STABILIZATION (WITH PERM SEEDING)			Establishing a permanent vegetative cover such as trees, shrubs, vines, grasses, or legumes on disturbed areas.
Ds4	DISTURBED AREA STABILIZATION (SODDING)			A permanent vegetative cover using sods on highly erodible or critically eroded lands.
Du	DUST CONTROL ON DISTURBED AREAS			Controlling surface and air movement of dust on construction site, roadways and similar sites.
Fl-Co	FLOCCULANTS AND COAGULANTS			Substance formulated to assist in the solids/liquid separation of suspended particles in solution.
Sb	STREAMBANK STABILIZATION (USING PERM VEGETATION)			The use of readily available native plant materials to maintain and enhance streambanks, or to prevent, or restore and repair small streambank erosion problems.
Ss	SLOPE STABILIZATION			A protective covering used to prevent erosion and establish temporary or permanent vegetation on steep slopes, shore lines, or channels.
Tac	TACKIFIERS AND BINDERS			Substance used to anchor straw or hay mulch by causing the organic material to bind together.

#### Co CRUSHED STONE CONSTRUCTION EXIT

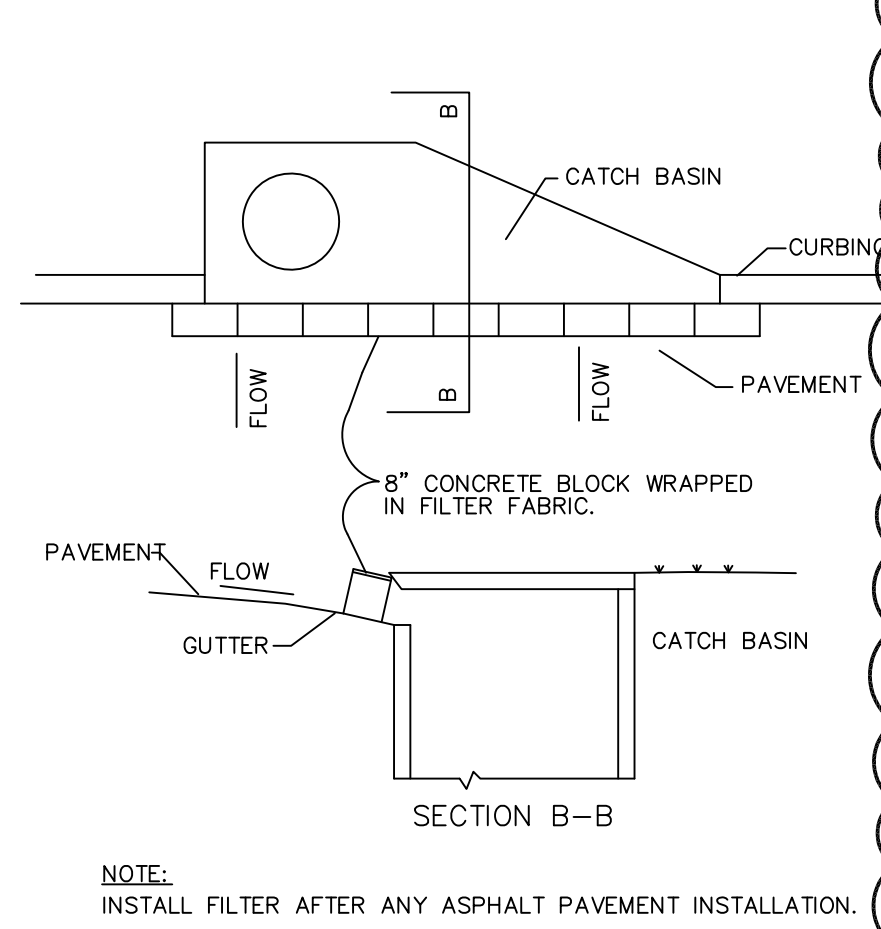


- NOTES:**
1. AVOID LOCATING ON STEEP SLOPES OR AT CURVES ON PUBLIC ROADS.
  2. REMOVE ALL VEGETATION AND OTHER UNSUITABLE MATERIAL FROM THE FOUNDATION AREA, GRADE, AND CROWN FOR POSITIVE DRAINAGE.
  3. AGGREGATE SIZE SHALL BE IN ACCORDANCE WITH NATIONAL STONE ASSOCIATION R-2 (1.5"-3.5" STONE).
  4. GRAVEL PAD SHALL HAVE A MINIMUM THICKNESS OF 6".
  5. PAD WIDTH SHALL BE EQUAL FULL WIDTH AT ALL POINTS OF VEHICULAR EGRESS, BUT NO LESS THAN 20'.
  6. A DIVERSION RIDGE SHOULD BE CONSTRUCTED WHEN GRADE TOWARD PAVED AREA IS GREATER THAN 2%.
  7. INSTALL PIPE UNDER THE ENTRANCE IF NEEDED TO MAINTAIN DRAINAGE DITCHES.
  8. WHEN WASHING IS REQUIRED, IT SHOULD BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE THAT DRAINS INTO AN APPROVED SEDIMENT TRAP OR SEDIMENT BASIN (OVERT ALL SURFACE RUNOFF AND DRAINAGE FROM THE ENTRANCE TO A SEDIMENT CONTROL DEVICE).
  9. WASHRACKS AND/OR TIRE WASHERS MAY BE REQUIRED DEPENDING ON SCALE AND CIRCUMSTANCE. IF NECESSARY, WASHRACK DESIGN MAY CONSIST OF ANY MATERIAL SUITABLE FOR TRUCK TRAFFIC THAT REMOVE MUD AND DIRT.
  10. MAINTAIN AREA IN A WAY THAT PREVENTS TRACKING AND/OR FLOW OF MUD ONTO PUBLIC RIGHTS-OF-WAYS. THIS MAY REQUIRE TOP DRESSING, REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT.



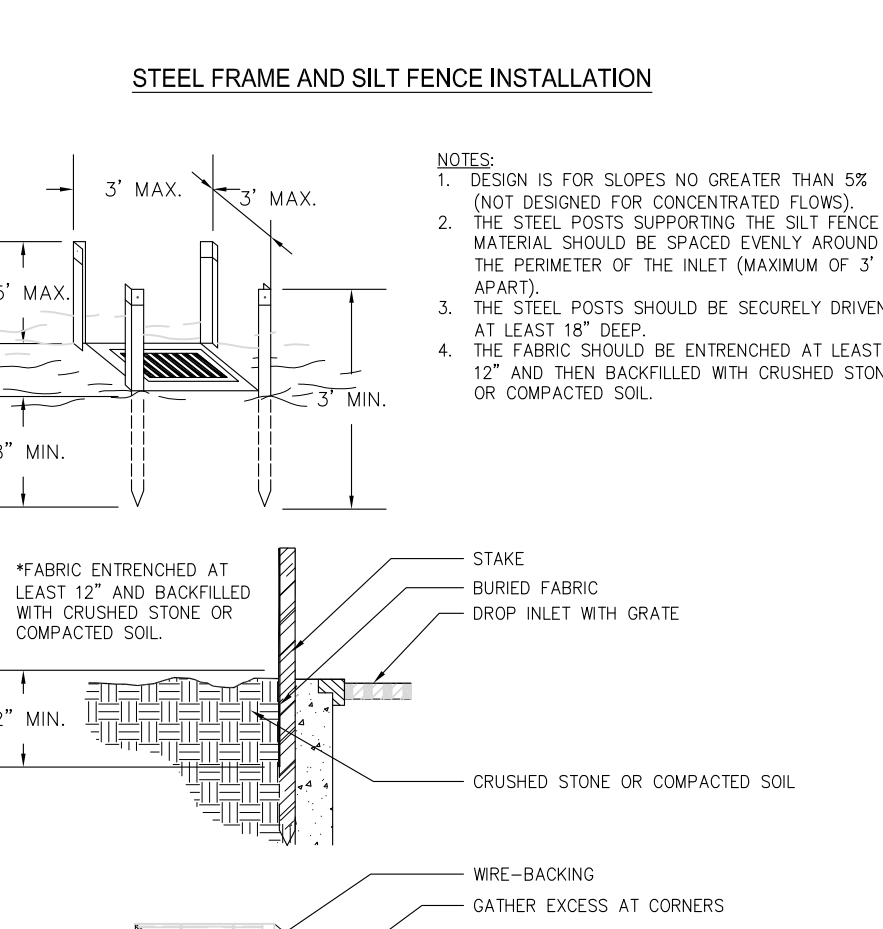
TOP SOIL STOCKPILE  
NOT TO SCALE

#### Sd2-P CURB INLET FILTER "PIGS IN BLANKET"

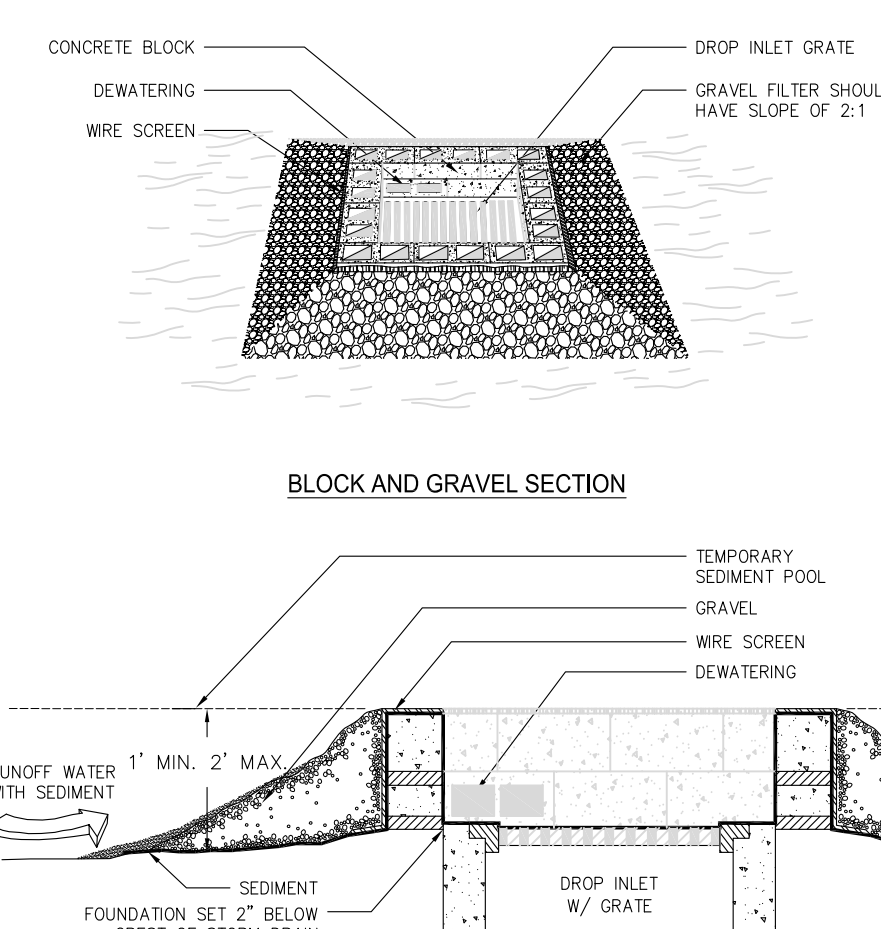


NOTE: INSTALL FILTER AFTER ANY ASPHALT PAVEMENT INSTALLATION.

#### Sd2-F FABRIC AND SUPPORTING FRAME FOR INLET PROTECTION



#### Sd2-BG BLOCK AND GRAVEL DROP INLET PROTECTION



#### Du DUST CONTROL ON DISTURBED AREAS

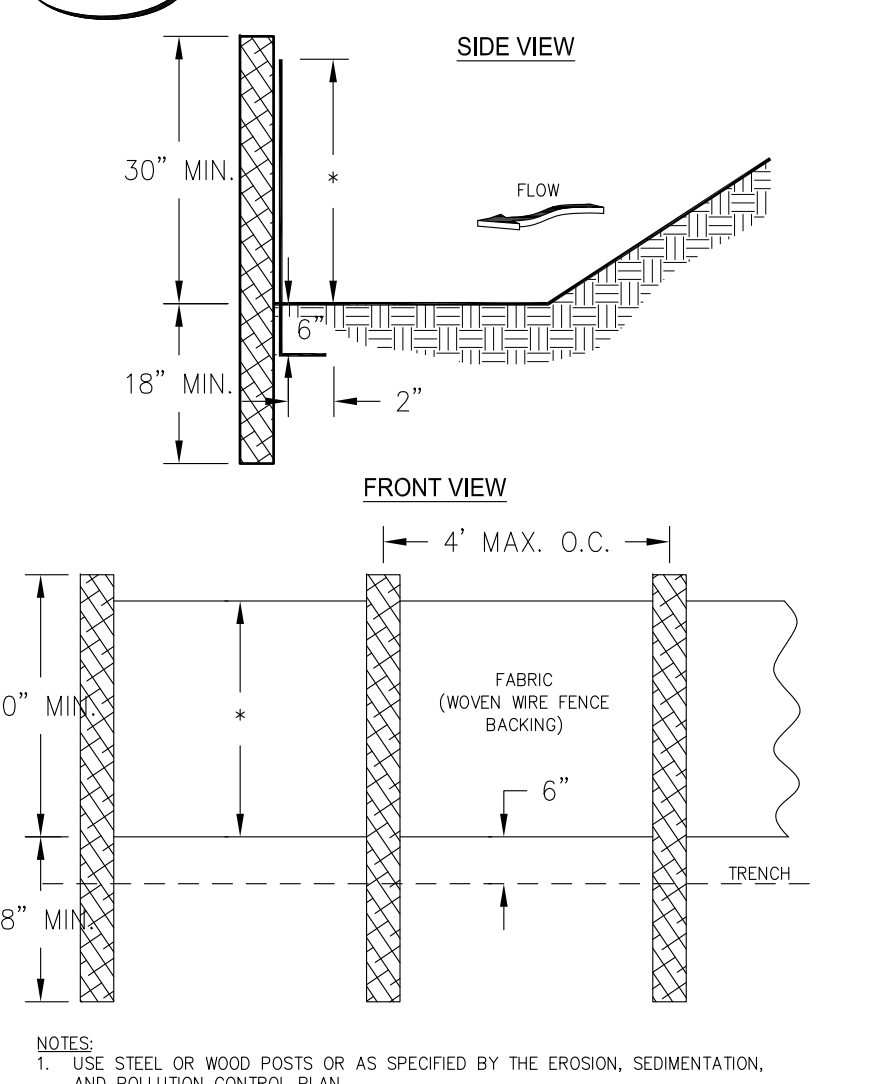
CONTRACTOR SHALL EMPLOY THE FOLLOWING TEMPORARY METHODS TO LIMIT THE SURFACE AND AIR MOVEMENT OF DUST FROM EXPOSED SOIL SURFACES:

*TEMPORARY METHODS:			
-MULCHES	-PERMANENT VEGETATION		
-SPRAY ON ADHESIVES	-TOPSOIL		
-IRRIGATION	-STONE COVER		
-BARRIERS			
-CALCIUM CHLORIDE			

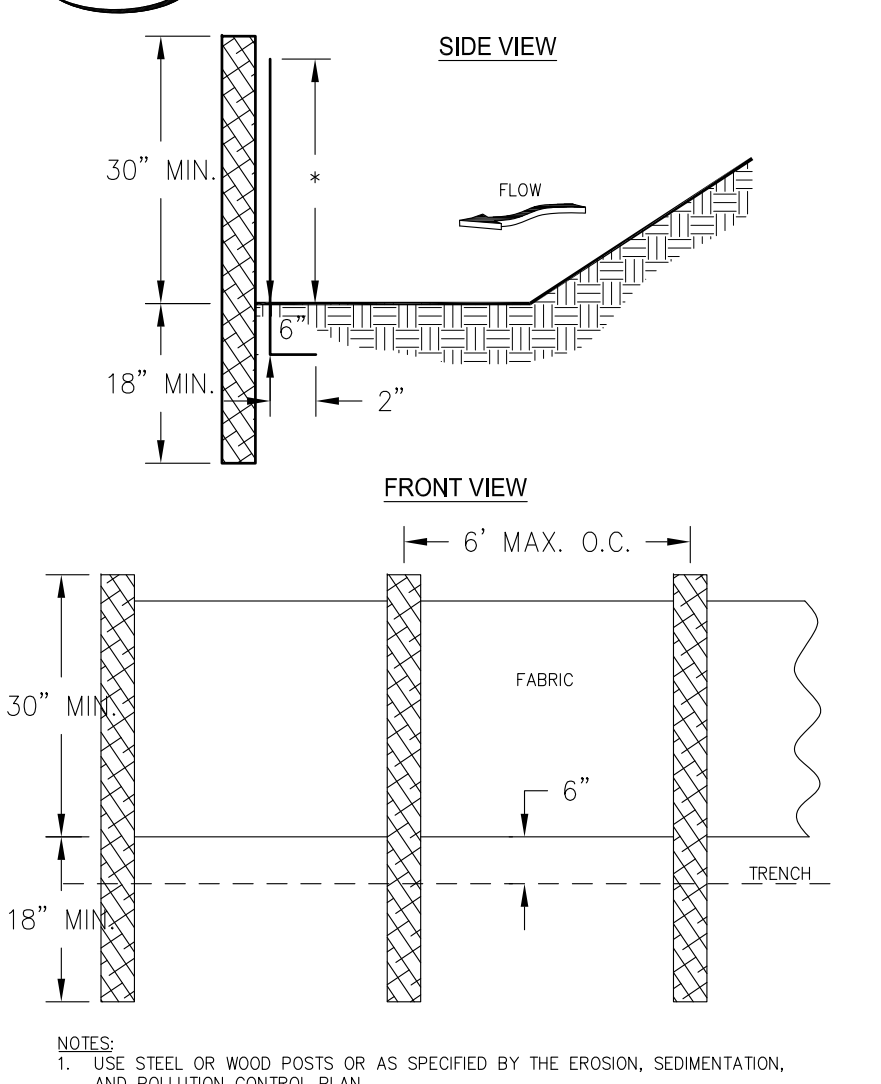
  

*CHEMICAL CONTROL			
ADHESIVE	WATER DILUTION	TYPE OF NOZZLE	APPLICATION RATE (GAL/AC)
ANIONIC ASPHALT EMULSION	7:1	SPRAY	1200
LATEX EMULSION	12 1/2:1	FINE SPRAY	235
RESIN-WATER EMULSION	4:1	FINE SPRAY	300

#### Sd1-S SILT FENCE - TYPE SENSITIVE



#### Sd1-NS SILT FENCE - TYPE NON-SENSITIVE



REVISIONS NO.	DATE	DESCRIPTION

**MAUPIN**<sup>tm</sup>  
engineering

114 W. 42<sup>nd</sup> STREET • SAVANNAH, GA 31401  
O: 912.235.2915

## EROSION CONTROL DETAILS

### Pump-N-Go

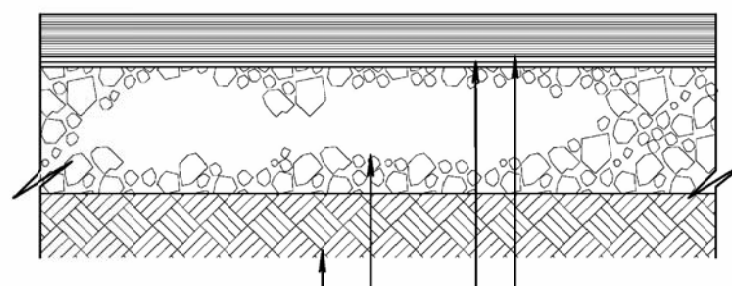
LEVEL II E&S  
REGISTERED  
No. 23758  
ENGINEER  
JAY A. MAUPIN

CERT #21051 EXP-10/31/2018  
STATUS:  
**RELEASED FOR PERMITTING**

DRWN: ADD 10-30-2017  
CHK'D: JAM 9-15-17

SHEET NO.  
**D.2**  
313-17-01  
PROJECT NO.





BITUMINOUS SURFACE COURSE, HOT PLANT MIX  
BITUMINOUS PRIME COAT  
GRADED AGGREGATE BASE COURSE  
COMPACTED SUBGRADE 100% DENSITY STANDARD PROCTOR

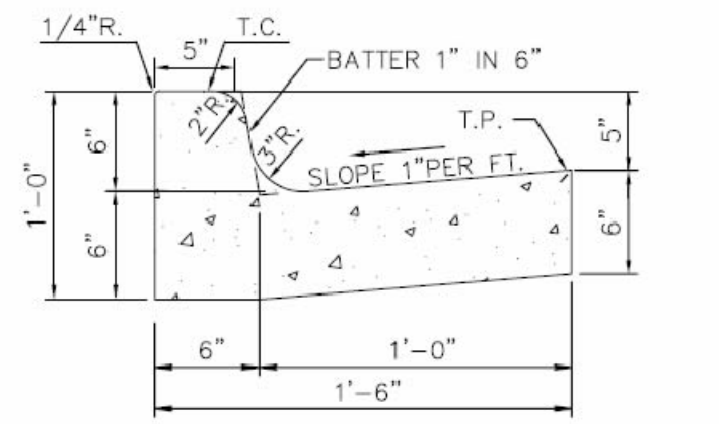
TYPICAL BITUMINOUS PAVING SECTION

City of Port Wentworth  
TECHNICAL DETAILS

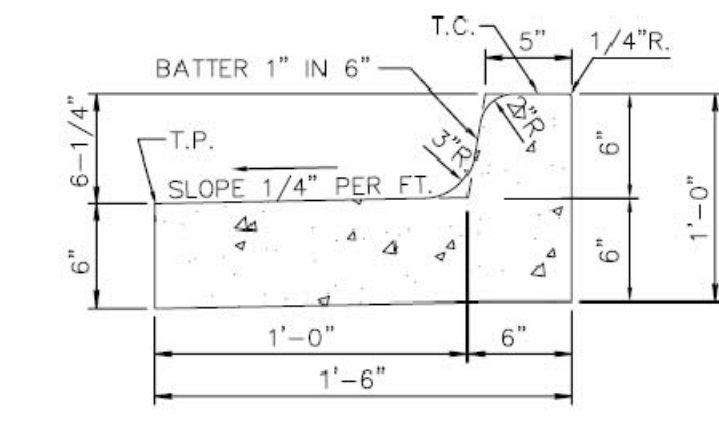
P-1

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NORMAL GUTTER



PITCHED GUTTER

NOTE: COMPACT SUBGRADE TO 98% (ASTM D698-00a1)

18" CURB & GUTTER

City of Port Wentworth  
TECHNICAL DETAILS

P-3

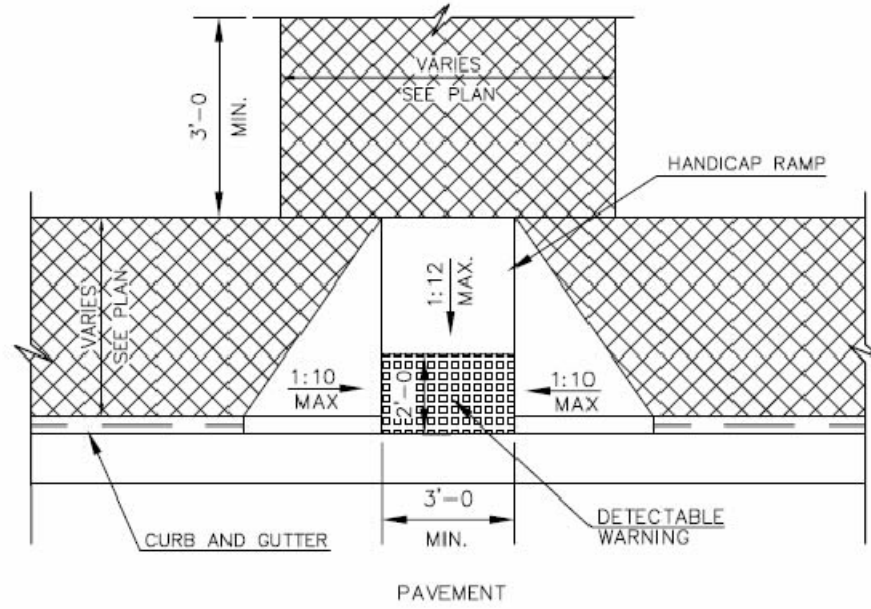
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SCALE: N.T.S.  
DATED: FEBRUARY 2007

DETECTABLE WARNINGS ON WALKING SURFACE OF HANDICAP RAMP

DETECTABLE WARNINGS SHALL CONSIST OF RAISED TRUNCATED DOMES WITH A DIAMETER OF NOMINAL 0.9 IN (23mm). A HEIGHT OF NOMINAL 0.2 IN (5mm) AND A CENTER-TO-CENTER SPACING OF NOMINAL 2.35 IN (60mm) AND SHALL CONTRAST VISUALLY WITH ADJOINING SURFACES, EITHER LIGHT-ON-DARK, OR DARK-ON-LIGHT.

THE MATERIAL USED TO PROVIDE CONTRAST SHALL BE INTEGRAL PART OF THE WALKING SURFACE. DETECTABLE WARNINGS USED ON SURFACES SHALL DIFFER FROM ADJOINING WALKING SURFACES IN RESILIENCY OR SOUND-ON-CANE SURFACES SHALL MEET THE ADA ACCESSIBILITY GUIDELINES SECTION 4.29.2.



HANDICAP RAMP TYPE "A"

City of Port Wentworth  
TECHNICAL DETAILS

P-4

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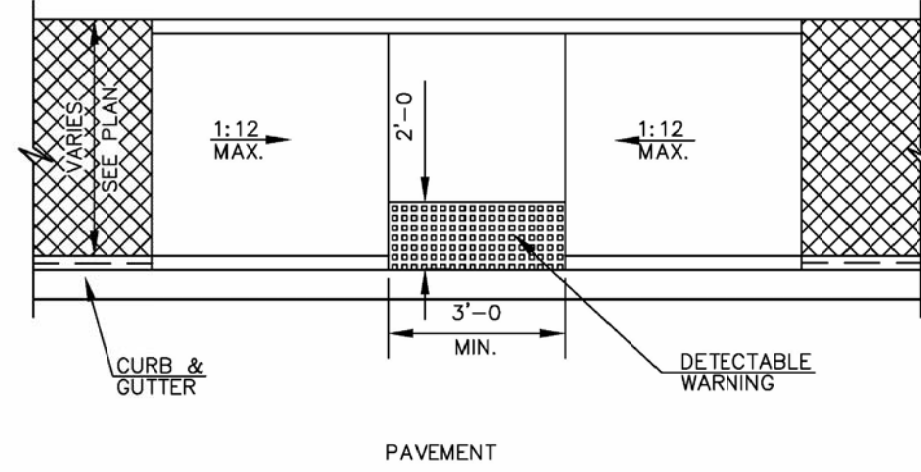
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DATED: FEBRUARY 2007

DETECTABLE WARNINGS ON WALKING SURFACE OF HANDICAP RAMP

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SURFACES SHALL MEET THE ADA ACCESSIBILITY GUIDELINES SECTION 4.29.2.



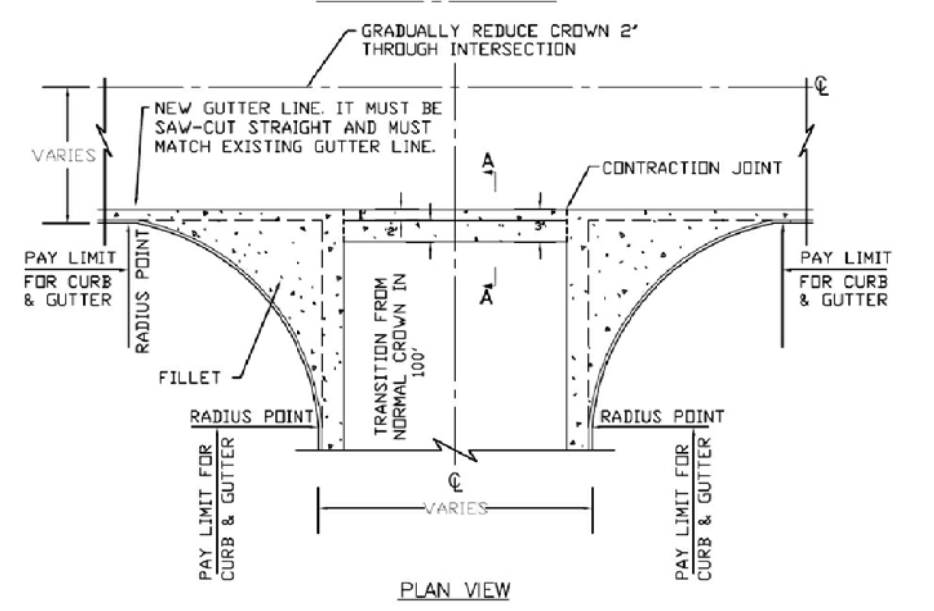
HANDICAP RAMP TYPE "B"

City of Port Wentworth  
TECHNICAL DETAILS

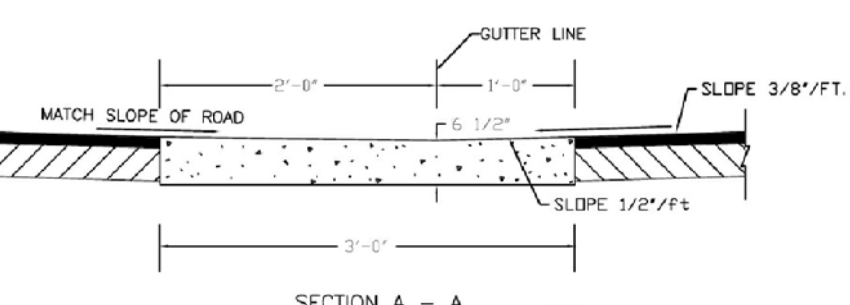
P-5

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DATED: FEBRUARY 2007



CONCRETE SWALE WITH FILLETS



NOTES:  
1- COMPACTED SUBGRADE TO 100% STANDARD GASTM D6980  
2- ALL PAVEMENT AND CONCRETE CUTS MUST BE STRAIGHT SAW CUT LINES

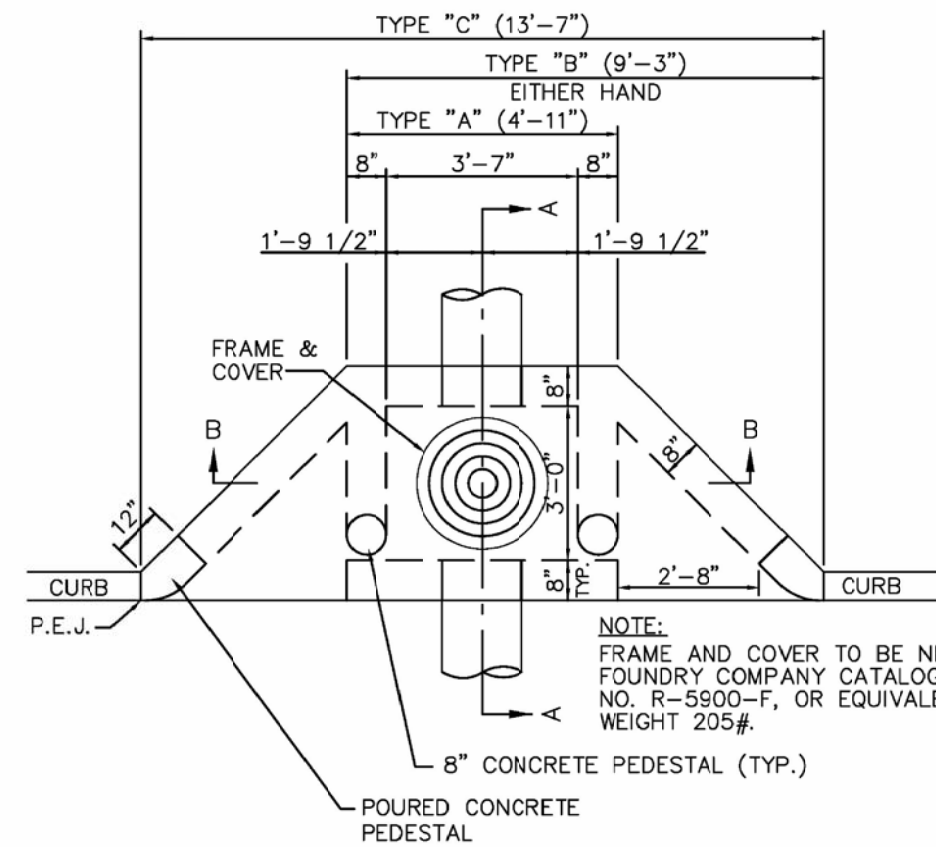
CONCRETE SWALE WITH FILLETS

City of Port Wentworth  
TECHNICAL DETAILS

P-7

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DATED: FEBRUARY 2007



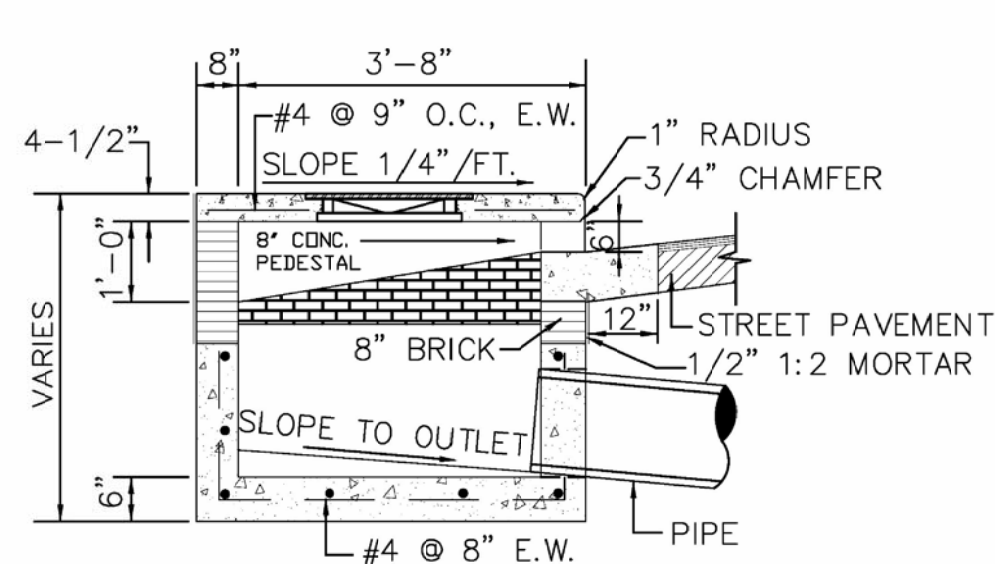
PLAN OF CURB INLET

City of Port Wentworth  
TECHNICAL DETAILS

SD-1

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SCALE: N.T.S.  
DATED: FEBRUARY 2007



NOTES:  
1. CHAMFER ALL EXPOSED CONCRETE EDGES 3/4"  
2. PIPE TIEING TO CURB INLET MUST BE SEALED INSIDE AND OUTSIDE OF STRUCTURE WITH BRICK AND MORTAR

CURB INLET SECTION A - A

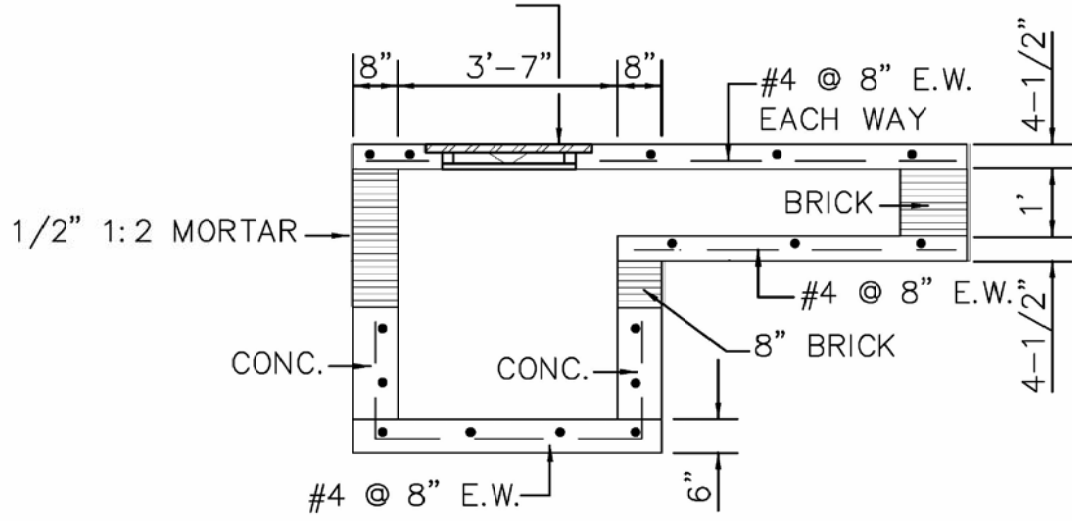
City of Port Wentworth  
TECHNICAL DETAILS

SD-3

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SCALE: N.T.S.  
DATED: FEBRUARY 2007

NOTE:  
C.I. MANHOLE FRAME AND COVER EQUIVALENT TO NEENAH R-5900-F. FRAME AND COVER TO BE MACHINE FITTED PRIOR TO LEAVING SHOP. WEIGHT - 205 LBS.



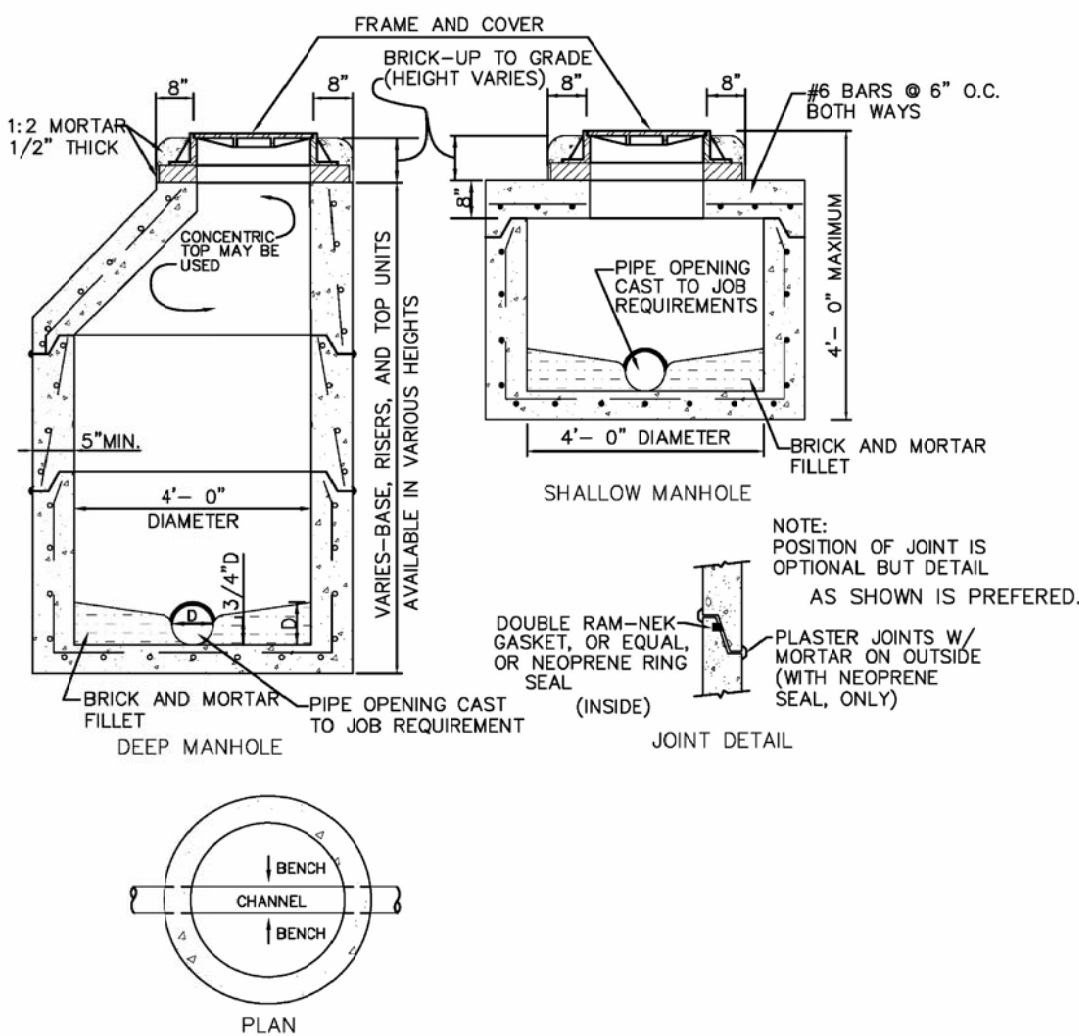
CURB INLET SECTION B - B

City of Port Wentworth  
TECHNICAL DETAILS

SD-4

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DATED: FEBRUARY 2007



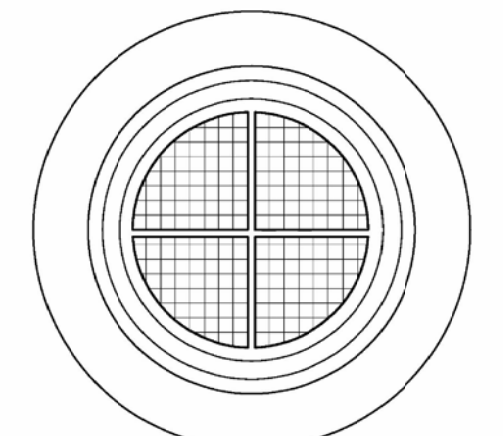
PRECAST STORM MANHOLE

City of Port Wentworth  
TECHNICAL DETAILS

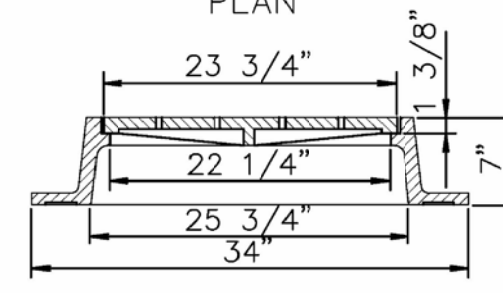
SD-12

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DATED: FEBRUARY 2007



PLAN



SECTION

NOTE:  
MANHOLE RIM & COVER SIMILAR TO NEENAH FOUNDRY CO. R-1412-A4. TOTAL WEIGHT 310#. TYPE "C" LID TO HAVE MACHINED BEARING SURFACES. LID TO BE LETTERED "STORM".

STORM MANHOLE RING & COVER

City of Port Wentworth  
TECHNICAL DETAILS

SD-14

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DATED: FEBRUARY 2007

Table with columns: REVISIONS, NO., DATE, DESCRIPTION

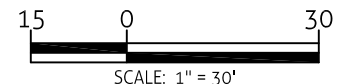
MAUPIN engineering logo and address: 114 W. 42nd STREET, SAVANNAH, GA 31401, O-912 235 2915

DETAILS Pump-N-Go logo



STATUS: RELEASED FOR PERMITTING

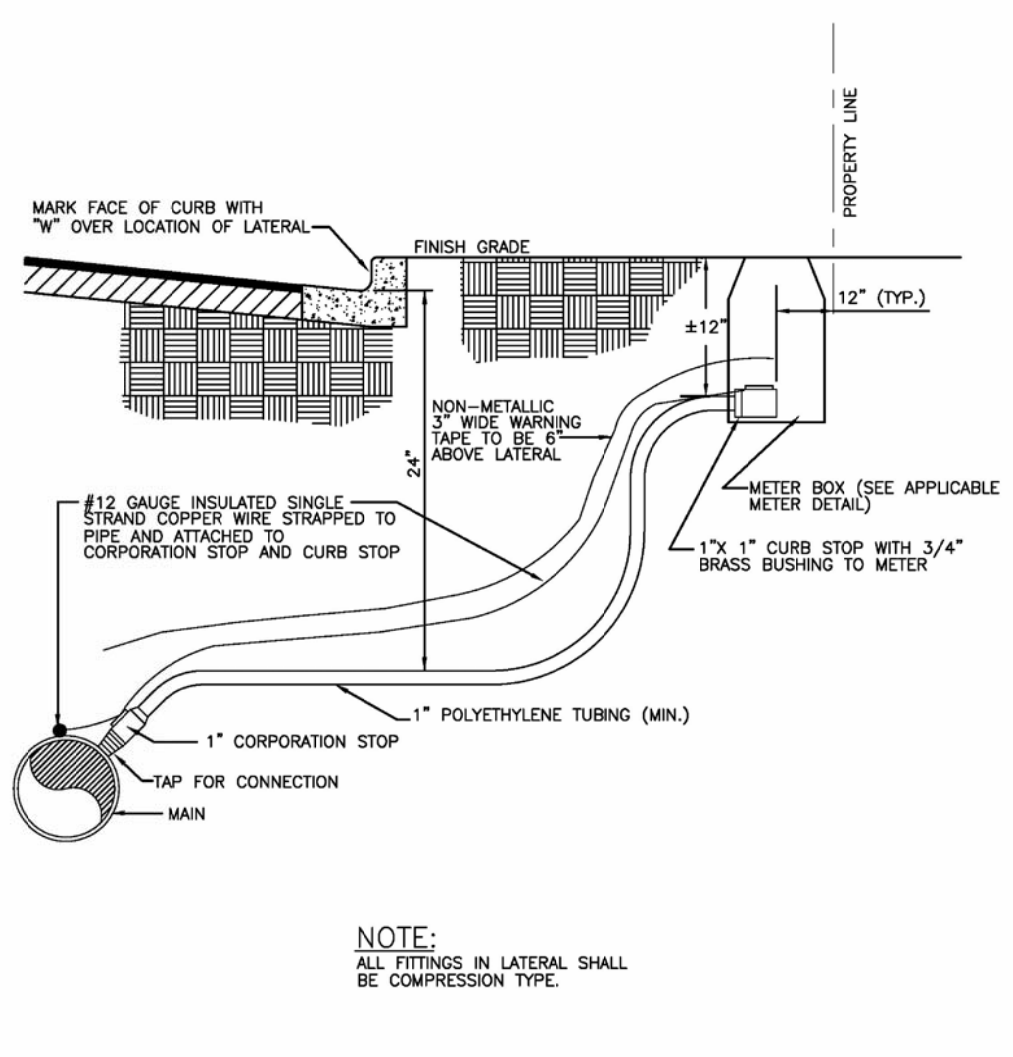
DRWN: ADD 10-30-2017  
CHK'D: JAM 9-15-17



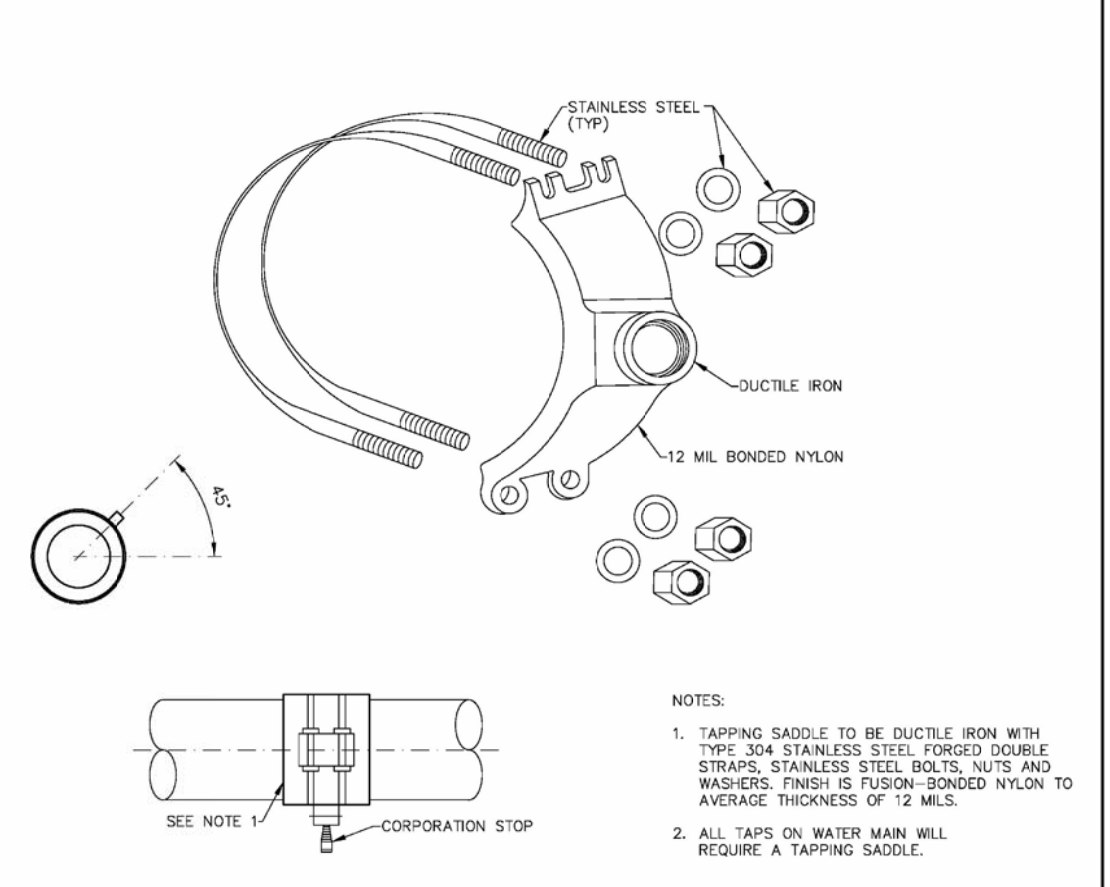
SHEET NO.

D.3 313-17-01

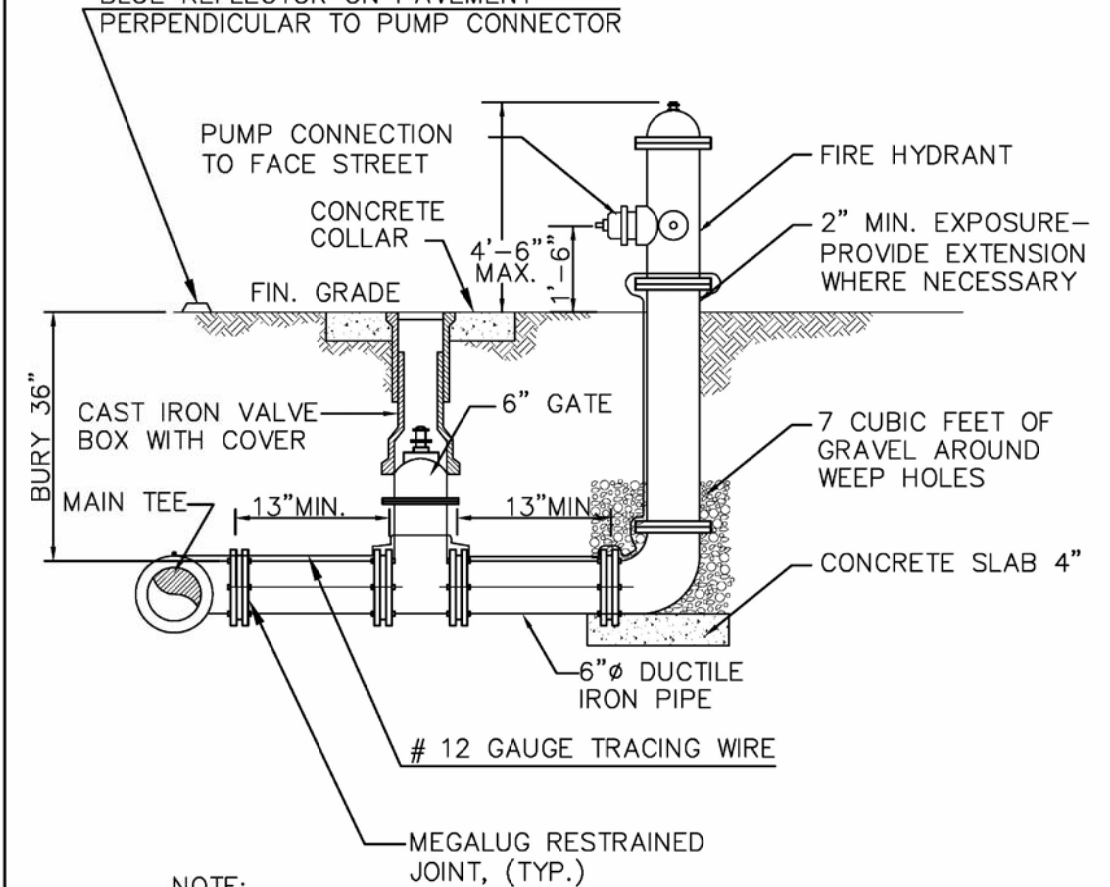




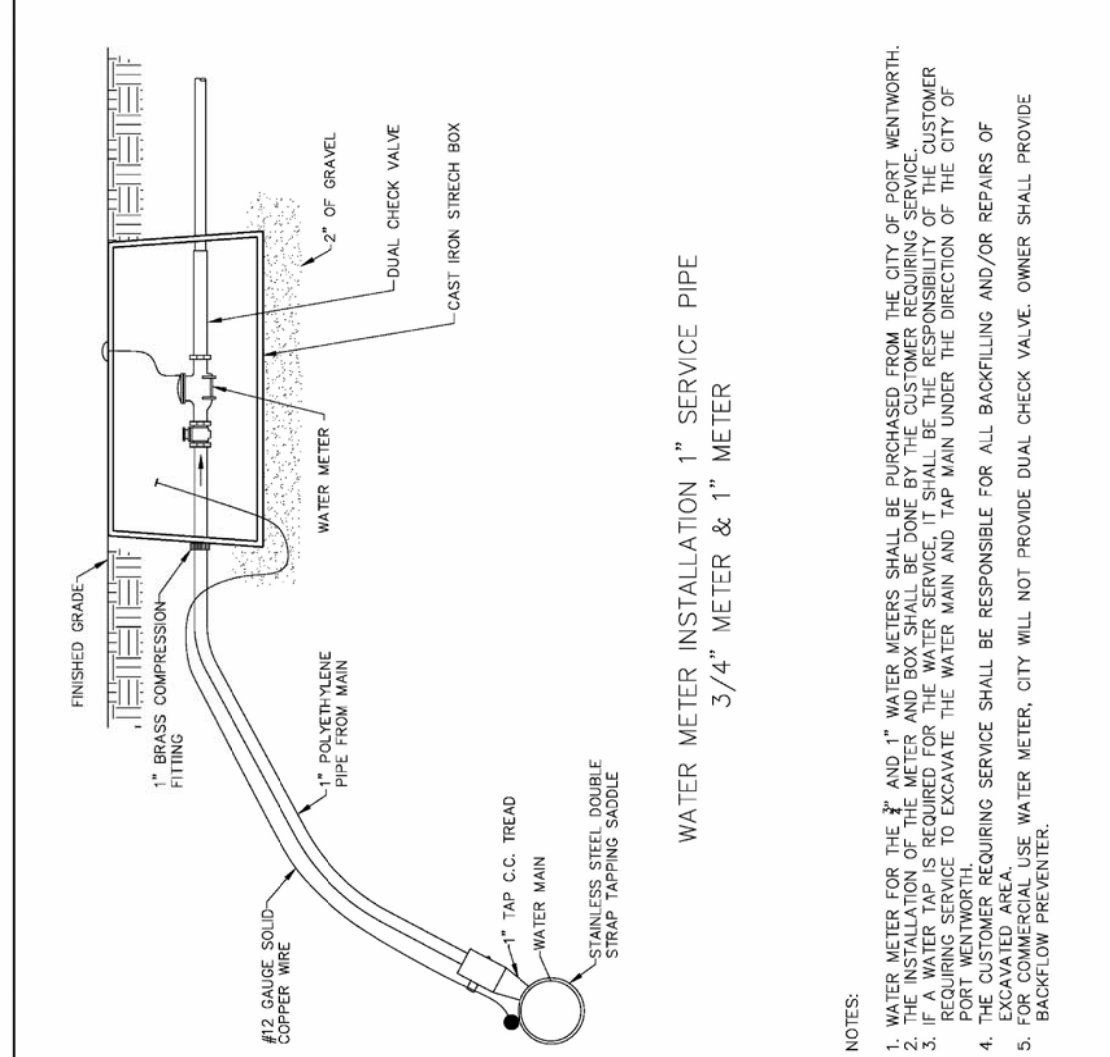
**WATER SERVICE LATERAL**  
*City of Port Wentworth*  
**TECHNICAL DETAILS**  
 W-1  
 PREPARED BY SAUSSY ENGINEERING, LLC. SCALE: N.T.S. DATED: FEBRUARY 2007



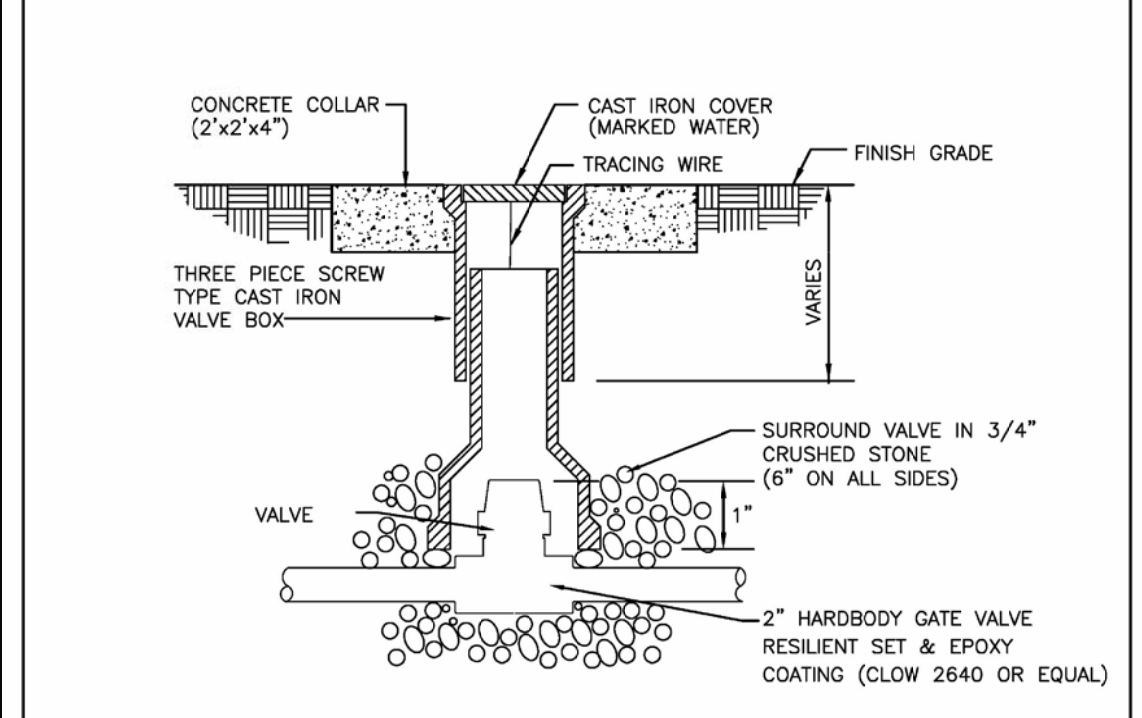
**1" AND 2" TAPPING SADDLE**  
*City of Port Wentworth*  
**TECHNICAL DETAILS**  
 W-2  
 PREPARED BY SAUSSY ENGINEERING, LLC. SCALE: N.T.S. DATED: FEBRUARY 2007



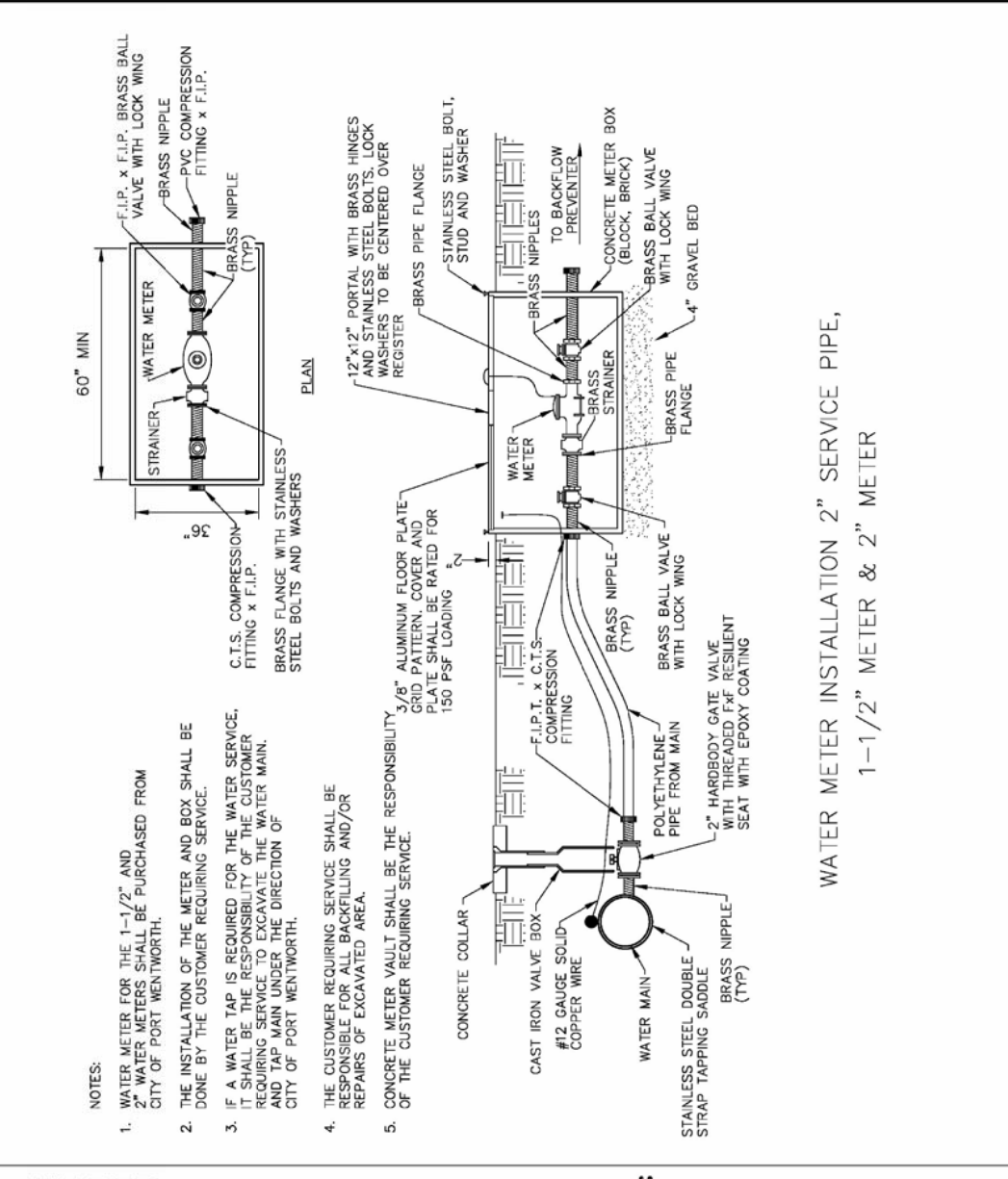
**STANDARD FIRE HYDRANT**  
*City of Port Wentworth*  
**TECHNICAL DETAILS**  
 W-9  
 PREPARED BY SAUSSY ENGINEERING, LLC. SCALE: N.T.S. DATED: FEBRUARY 2007



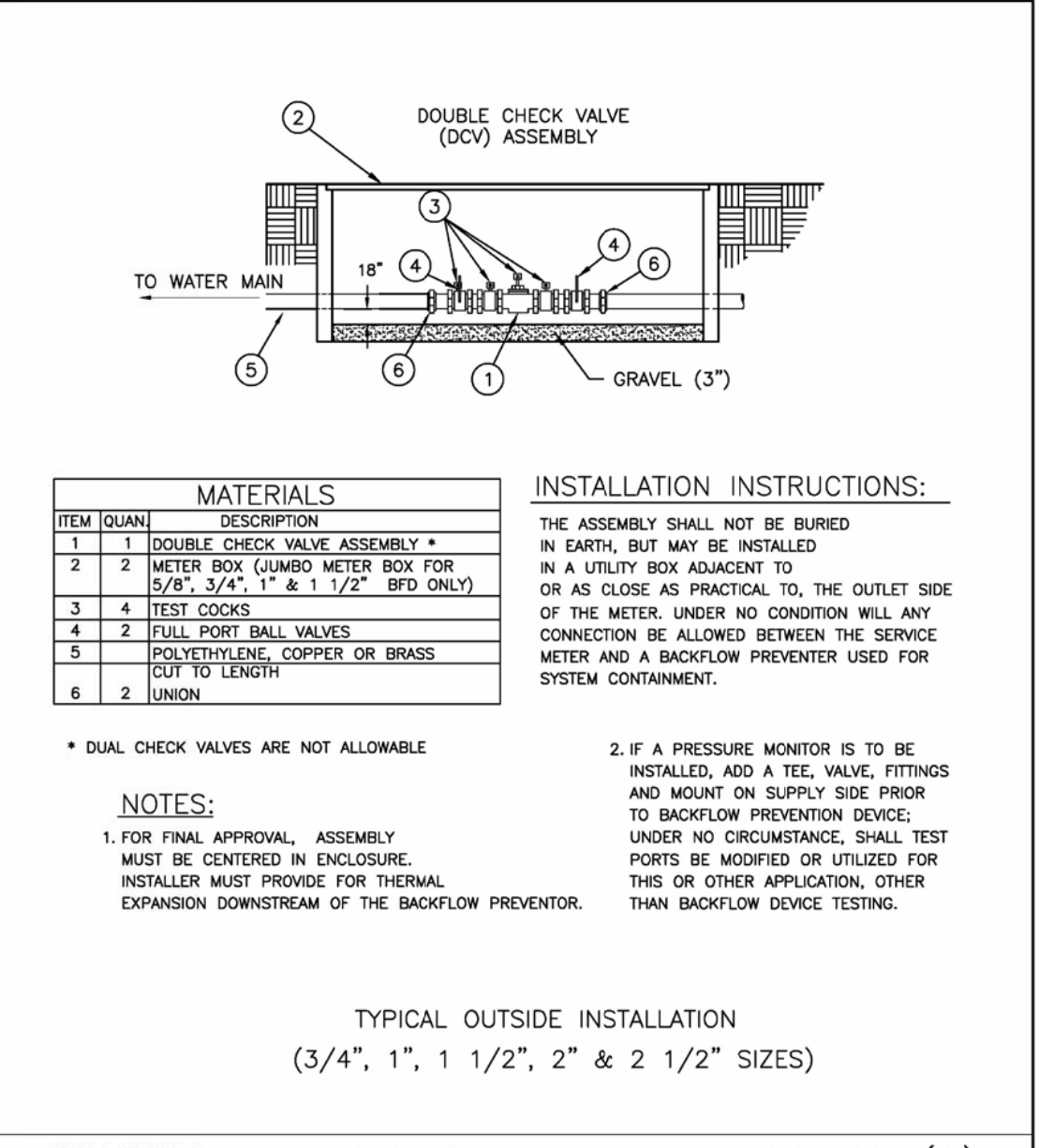
**WATER METER**  
*City of Port Wentworth*  
**TECHNICAL DETAILS**  
 W-17  
 PREPARED BY SAUSSY ENGINEERING, LLC. SCALE: N.T.S. DATED: FEBRUARY 2007



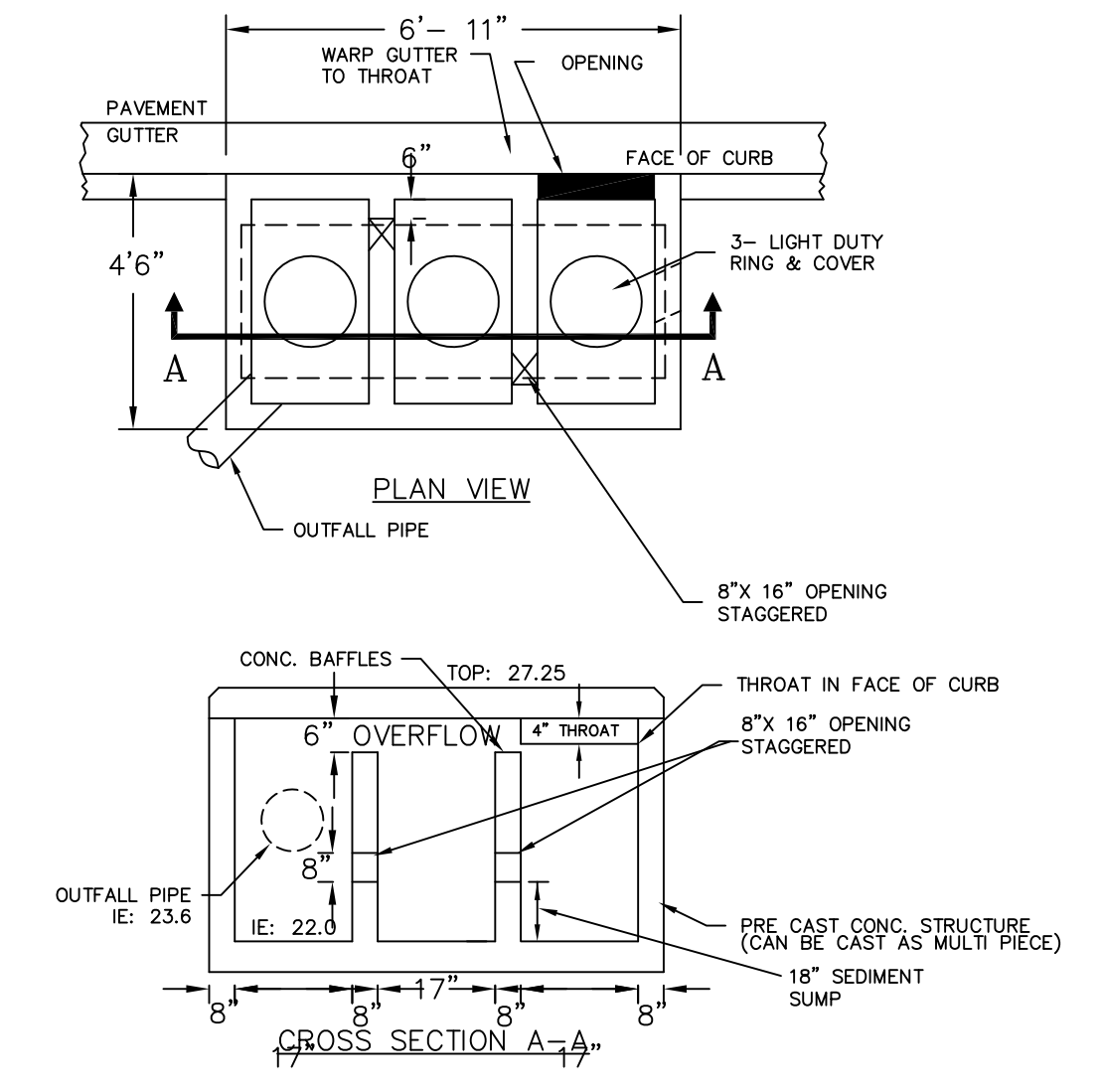
**2" WATER VALVE**  
*City of Port Wentworth*  
**TECHNICAL DETAILS**  
 W-18  
 PREPARED BY SAUSSY ENGINEERING, LLC. SCALE: N.T.S. DATED: FEBRUARY 2007



**WATER METER INSTALLATION 2" SERVICE PIPE**  
*City of Port Wentworth*  
**TECHNICAL DETAILS**  
 W-19  
 PREPARED BY SAUSSY ENGINEERING, LLC. SCALE: N.T.S. DATED: FEBRUARY 2007



**DOMESTIC DOUBLE CHECK VALVE ASSEMBLY (A)**  
*City of Port Wentworth*  
**TECHNICAL DETAILS**  
 W-20  
 PREPARED BY SAUSSY ENGINEERING, LLC. SCALE: N.T.S. DATED: FEBRUARY 2007



**WATER QUALITY STRUCTURE**  
*City of Port Wentworth*  
**TECHNICAL DETAILS**  
 W-21  
 PREPARED BY SAUSSY ENGINEERING, LLC. SCALE: N.T.S. DATED: FEBRUARY 2007

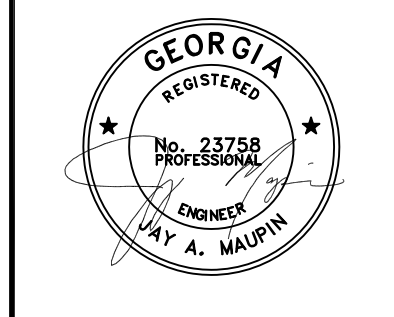
REVISIONS

NO.	DATE	DESCRIPTION
1	01/17/17	Detail added to accommodate increased building footprint

**MAUPIN**<sup>tm</sup>  
 engineering

114 W. 42<sup>nd</sup> STREET • SAVANNAH, GA 31401  
 O: 912.235.2915

**DETAILS**  
 Pump-N-Go



STATUS: **RELEASED FOR PERMITTING**

DRWN: ADD 10-30-2017  
 CHK'D: JAM 9-15-17

SCALE: 1" = 30'

SHEET NO. **D.4**  
 313-17-01