



INGRAM & ASSOCIATES
CONSULTING ENGINEERS, LLC

ADDENDUM NO. 2

PLANS, SPECIFICATIONS, AND CONTRACT DOCUMENTS

June 21, 2021

PROJECT: Sanitary Sewer Improvements to serve the Griswoldville Industrial Park
I&A Project No.: 1160-064-01

OWNER: Jones County Board of Commissioners

REVISED BID DATE: June 25, 2021 at 3:30 p.m.

Item 1: RESPONSES TO QUESTIONS SUBMITTED

1. *Can you confirm an 8" DR 18 Fusible PVC pipe (235 PSI pipe and C900 compliant) is sufficient for the HDD sections of this project?*

YES, Fusible PVC is sufficient for the horizontal directional Drills (HDD) in this project.

2. *Can 8" Fusible PVC pipe be utilized inside the steel casings as restrained joint and allow for downsizing to 12" Steel Casing?*

8" Fusible PVC inside steel casing is acceptable for the project but steel casing shall remain the size on the plans.

3. *Can 12" Fusible PVC pipe be utilized inside the steel casing as restrained joint and allow for downsizing to 16" steel casing?*

12" Fusible PVC inside steel casing is acceptable for the two (2) road bores only, but steel casing shall remain the size as on the plans. This railroad permit has already been obtained and should be constructed as shown on attached plan. This requires 12" DIP carrier PIPG and 24" steel casing.

4. *Is there a specific entrance to the Industrial Park that is to be used for accessing the lift station site? Is there a designated route or typical section required for the access road?*

The access road will be compacted soil and 6" graded aggregate base. Estimate only the length of roadway as shown on the site plan. Jones County will prepare the access road to the site.

5. *What is the planned access route to the work area between the railroad tracks and the designated wetlands (Force Main Sta 331+00-332+00)?*

There is an existing logging road to this area.

6. *What is the engineer's cost estimate for this project?*

\$1.4 million, before COVID

7. *Has the allowance for Tri-City EMC 3-phase been established?*

Please find enclosed the proposed route for Tri-County EMC. The allowance for power is \$125,000.00.

8. *The geotechnical report provided with the bid documents shows one bore (B-1) proximate to the lift station site. Are there any other Geotech reports available for the force main?*

No

Item 2: ADDITION – Railroad Permit Profile View Plans (2 pages)

Item 3: ADDITION – Proposed Route for Tri-County EMC

END ADDENDUM NO. 2



March 30, 2021

Jeffrey Pehlke
Jones County Water Department
270 Hwy 49
Macon, Georgia 31211

RE: Proposed installation of an underground transverse crossing of a 12” ductile iron water pipe, encased in a 24” steel pipe. Wholly within the confines of Griswoldville Rd. (AAR/DOT #733421L).

**Coastal Division, at Mile Post F-7.17
Macon, Jones County, Georgia
Latitude / Longitude: 32.875242 / -83.539025
NS Activity No. 1289126**

Dear Jeffrey Pehlke:

Attached is the fully executed Agreement dated March 30, 2021, which has been executed by Norfolk Southern Railway Company (“Railway”). Now that the agreement has been countersigned, the Licensee and/or its contractors may reach out to the following individuals to begin coordinating field services for the project:

For Scheduling of Flagging & Construction Monitoring submit a Protection Services Coordination request online at: <https://ns.railprosp permitting.com>

Please *reference the NS Activity Number* and upload the permit. It is recommended that the contractor or construction manager submit the request. Projects are scheduled as soon as practicable and as the completion of the construction work plan review, planning and logistics allow. Prior approval is required before commencing construction, and **entry onto Railway’s property without the Division Engineer or their representative’s prior approval is considered trespassing.**

NOTE: Please email to ns.coordinator@railpros.com complete as-built drawings of the Facilities in an electronic format within thirty (30) days of (i) completion of the initial installation of the Facilities and (ii) completion of any material change to the Facilities.

If you have any questions, please contact mitch.bruckner@railpros.com.

Sincerely,

Mitch Bruckner

Mitch Bruckner
Real Estate Specialist

PIPE DATA SHEET

	CARRIER PIPE	CASING PIPE
CONTENTS TO BE HANDLED	Water	Carrier Pipe
MAX. ALLOWABLE OPERATING PRESSURE	100 psi	
NOMINAL SIZE OF PIPE	12"	24"
OUTSIDE DIAMETER	13.2"	24"
INSIDE DIAMETER	12.58"	23.25"
WALL THICKNESS	0.31"	0.375"
WEIGHT PER FOOT	38.4 lbs	94.62 lbs
MATERIAL	Ductile Iron Pipe	Steel
PROCESS OF MANUFACTURE	Centrifugally Cast	
SPECIFICATION	ANSI A21.51	ASTM A252
GRADE OR CLASS (Specified Minimum Yield Strength)	350	Grade 2
TEST PRESSURE	150 psi	NA
TYPE OF JOINT	Mechanical	Welded
TYPE OF COATING	Outside Asphaltic(A21.51) & Inside Cement(A21.4)	Coal Tar Epoxy
DETAILS OF CATHODIC PROTECTION	NA	NONE
DETAILS OF SEALS OR PROTECTION AT END OF CASING	NA	PSI TYPE FW
CHARACTER OF SUBSURFACE MATERIAL		
APPROXIMATE GROUND WATER LEVEL		
SOURCE OF INFORMATION ON SUBSURFACE CONDITIONS		

Proposed method of installation (refer to NSCE-8 Specification):

- Bore & Jack
- Jacking
- Tunneling (with Tunnel Liner Plate)
- Directional Bore/Horizontal Direction Drilling – Method A
- Directional Bore/Horizontal Direction Drilling – Method B
- Open Cut – *All installations directly under any track must be designed as a bored installation. Open cut installations will be considered on a case-by-case basis by Norfolk Southern's Division Superintendent at the time of installation.*
- Other – Please Specify: _____

CENTRAL OF GEORGIA RAILROAD COMPANY

**ACKNOWLEDGMENT FORM FOR WIRE AND/OR PIPE OCCUPATION
WITHIN THE LIMITS OF A PUBLIC RIGHT OF WAY.**

APPLICANT: Jones County Water Department
270 Hwy 49
Macon, Georgia 31211

SUBJECT: Macon, Jones County, Georgia
Milepost F-7.17, Mogul-Madison Line, Georgia Division
Latitude / Longitude: 32.875242 / -83.539025

Norfolk Southern Activity No. 1289126

Underground transverse crossing of a 12" ductile iron water pipe, encased in a 24" steel pipe. (collectively, the "Facilities")

In response to Applicant's submittal dated November 06, 2020 regarding the proposed construction of the subject project, Central of Georgia Railroad Company ("Railway") does not object to the installation of the Facilities as shown on the attached Drawing marked Exhibit "A" and Exhibit "B", last revised September 3, 2020, provided Applicant adheres to the following terms and conditions:

- The Facilities shall be installed, maintained, repaired and renewed by and at the sole risk, cost and expense of the Applicant.
- The Facilities must conform with all Federal, State and local laws, rules and regulations and will not be attached to any railroad structure or appurtenance and will not be located on any private property of Railway.
- The design and construction of aerial Facilities shall comply with Railway's NSCE-4 Specification, latest edition, and underground Facilities shall comply with Railway's NSCE-8 Specification, latest edition.
- Insurance

(a) Without limiting in any manner the liability and obligations assumed by Applicant under any other provision of this Agreement, and as additional protection to Railway, Applicant shall, at its expense, pay the Risk Financing Fee set forth in subparagraph (i) below and shall procure and maintain with insurance companies satisfactory to Railway, the insurance policies described in subparagraphs (ii) and (iii).

(i) Upon execution of this Agreement, Applicant shall pay Railway a risk financing fee of \$1,900 per installation (herein called the "Risk Financing Fee") to provide Railroad Protective Liability Insurance or such supplemental insurance (which may be self-insurance) as Railway, in its sole discretion, deems to be necessary or appropriate.

(ii) Prior to commencement of installation or maintenance of the Facilities or entry on Railway's property, Applicant, and its contractor if it employs one, shall procure and maintain for the course of said installation and maintenance, a general liability insurance policy naming Railway as an additional insured, and containing products and completed operations and contractual liability coverage, with a combined single limit of not less than \$1,000,000 for each occurrence.

(iii) Prior to commencement of any subsequent maintenance of the Facility during the term of this Agreement, unless Railway elects to make available and Applicant pays the then current risk financing fee for each affected installation, Applicant, or its contractor if it employs one, shall furnish Railway with an original Railroad Protective Liability Insurance Policy naming Railway as the named insured and having a limit of not less than a combined single limit of \$2,000,000 each occurrence and \$6,000,000 aggregate. Such policy shall be written using Insurance Services Offices Form Numbers CG 00 35 01 10 01.

(b) All insurance required under preceding subsection (a) shall be underwritten by insurers and be of such form and content as may be acceptable to Railway. Prior to commencement of

installation or maintenance of the Facilities or any entry on Railway's property, Applicant, or its contractor if it employs one, shall furnish to Railway's Risk Manager, Three Commercial Place, Norfolk, Virginia 23510-2191 (or such other representative and/or address as subsequently given by Railway to Applicant in writing), for approval, the original policy described in subsection (a)(iii) and a certificate of insurance evidencing the existence of a policy with the coverage described in subsection (a)(ii).

- Prior to commencement of any work to be performed, Licensee shall notify the appropriate Division Engineer for the scheduling of protection and inspection. Within seventy-two (72) hours after the Division Engineer's actual receipt of such notification, the Division Engineer shall review the necessity and availability of flagmen for the proposed work and advise Licensee of such matters and the estimated cost therefor. No work shall be permitted without the presence of Railway's flagman or the Division Engineer's waiver of the requirement for flag protection. Entry on or about any Railway right-of-way without the Division Engineer's prior approval shall be deemed trespassing. Licensee agrees to pay Railway, within thirty (30) days after delivery of an invoice therefor, for any protection and inspection costs incurred by Railway, in Railway's sole judgment, during any such entry.
- If Railway deems it advisable during the progress of any work of construction, maintenance, repairs and renewals, alterations, adjustments or removal of the Applicant's Facilities to place watchmen, flagmen, inspectors or any other employees deemed necessary by Railway for the protection of its train traffic and the protection of the property owned or in possession or control of Railway, or its employees, patrons, or licensees, Railway shall have the right to do so and Applicant agrees to bear full cost and expense thereof and to promptly reimburse Railway upon demand.
- All cost or expense resulting from any and all loss of life or property, or injury or damage to the person or property of any person, firm or corporation (including the parties hereto and their respective officers, agents and employees) and any and all claims, demands or actions for such loss, injury or damage, caused by or growing out of the presence or use, or the construction, maintenance, renewal, change or relocation and subsequent removal of the Facilities and appurtenances herein referred to shall be borne by Applicant unless caused solely by the negligence or willful misconduct of Railway.
- In the event of any revision, renewal, addition, removal or alteration of said facilities, prior approval of the Railway must be secured. Applicant must also furnish Railroad Protective Liability Insurance for this work.
- Upon abandonment of the Facilities by Applicant, Applicant shall seek direction from Railway's Chief Engineer, or his representative, regarding the method of abandonment if the Facilities will be abandoned in place.
- In the event the Facilities consist of electrical power or communication wires and appurtenances, Applicant shall promptly remedy any inductive interference growing out of, or resulting from the presence of, the Facilities.
- In the event the Facilities consist of an underground occupation, Applicant will be responsible for any settlement caused to the roadbed, right of way and/or tracks, facilities and appurtenances of Railway arising from or as a result of the installation of the Facilities, and Applicant shall pay to Railway on demand the full cost and expense therefore.
- All rights and obligations conferred hereby shall extend to the successors and assigns of the parties hereto, provided that the Applicant shall in no event transfer or assign its rights hereunder without the written consent of Railway, which will not be unreasonably withheld.
- If the public road is abandoned by the appropriate governmental authority and the Facilities remain within the limits of Railway's right of way after such abandonment, as a condition for the continuing presence of the Facilities within Railway's right of way, Railway and Applicant shall agree upon an appropriate occupancy fee or rental for the Facilities and execute an amendment to this Agreement within ninety (90) days after the date upon which such public road is abandoned.
- Any and all notices, demands or requests by or from Railway to Applicant, or Applicant to Railway, shall be in writing and shall be sent by (a) postage paid, certified mail, return receipt requested, or (b) a reputable national overnight courier service with receipt therefor, or (c) personal delivery, and addressed in each case as follows:

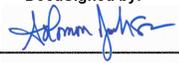
If to Railway: c/o Norfolk Southern Corporation
1200 Peachtree Street, NE - 12th Floor
Atlanta, Georgia 30309-3504
Attention: Director Real Estate

If to Applicant: Jones County Water Department
270 Hwy 49
Macon, Georgia 31211
Attention: Jeffrey Pehlke

Either party may, by notice in writing, direct that future notices or demands be sent to a different address.
All notices hereunder shall be deemed given upon receipt (or, if rejected, upon rejection).

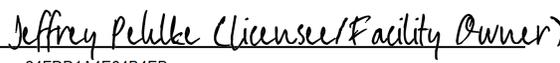
ACCEPTED BY:

CENTRAL OF GEORGIA RAILROAD COMPANY

DocuSigned by:

ECFF11FBD73C464
Real Estate Manager

DATE March 30, 2021

JONES COUNTY WATER DEPARTMENT

DocuSigned by:

24FDD1A4E64B4EB...
superintendent
Title _____

DATE March 9, 2021

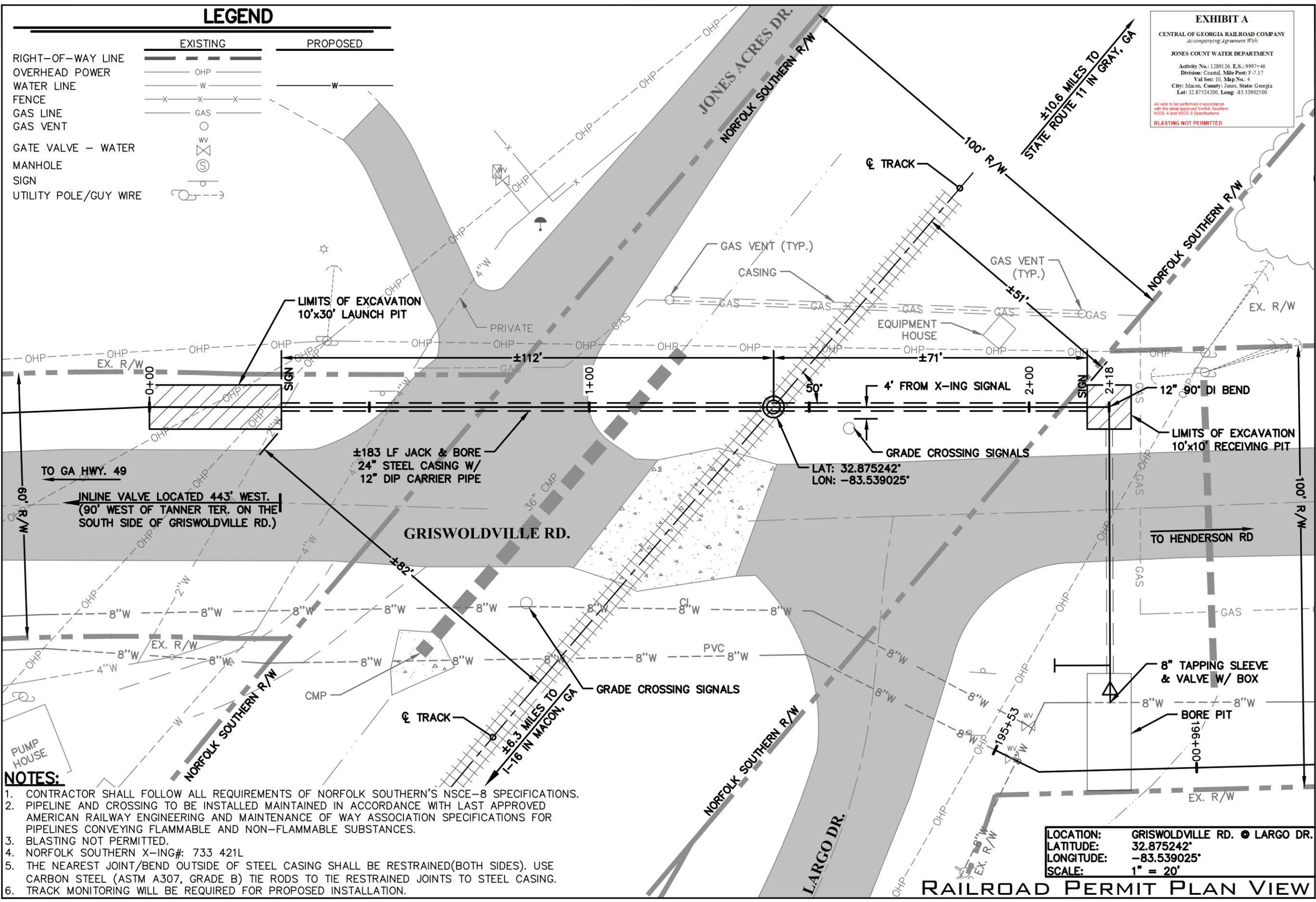
Activity Number: 1289126
Mitch Bruckner: 11/23/2020



LEGEND

	EXISTING	PROPOSED
RIGHT-OF-WAY LINE		
OVERHEAD POWER		
WATER LINE		
FENCE		
GAS LINE		
GAS VENT		
GATE VALVE - WATER		
MANHOLE		
SIGN		
UTILITY POLE/GUY WIRE		

EXHIBIT A
 CENTRAL OF GEORGIA RAILROAD COMPANY
 Accompanying Agreement With
JONES COUNTY WATER DEPARTMENT
 Activity No.: 1289126, E.S.: 9997+46
 Division: Coastal, Mile Post: F-7.17
 Val Sec: 10, Map No.: 4
 City: Macon, County: Jones, State: Georgia
 Lat: 32.87524200, Long: -83.53902500
 All work to be performed in accordance with the latest approved Norfolk Southern NSCE-4 and NSCE-8 Specifications
BLASTING NOT PERMITTED



- NOTES:**
- CONTRACTOR SHALL FOLLOW ALL REQUIREMENTS OF NORFOLK SOUTHERN'S NSCE-8 SPECIFICATIONS.
 - PIPELINE AND CROSSING TO BE INSTALLED MAINTAINED IN ACCORDANCE WITH LAST APPROVED AMERICAN RAILWAY ENGINEERING AND MAINTENANCE OF WAY ASSOCIATION SPECIFICATIONS FOR PIPELINES CONVEYING FLAMMABLE AND NON-FLAMMABLE SUBSTANCES.
 - BLASTING NOT PERMITTED.
 - NORFOLK SOUTHERN X-ING#: 733 421L
 - THE NEAREST JOINT/BEND OUTSIDE OF STEEL CASING SHALL BE RESTRAINED(BOTH SIDES). USE CARBON STEEL (ASTM A307, GRADE B) TIE RODS TO TIE RESTRAINED JOINTS TO STEEL CASING.
 - TRACK MONITORING WILL BE REQUIRED FOR PROPOSED INSTALLATION.

LOCATION: GRISWOLDVILLE RD. @ LARGO DR.
LATITUDE: 32.875242°
LONGITUDE: -83.539025°
SCALE: 1" = 20'

REVISIONS:
 1-1-2020 RR COMMENTS

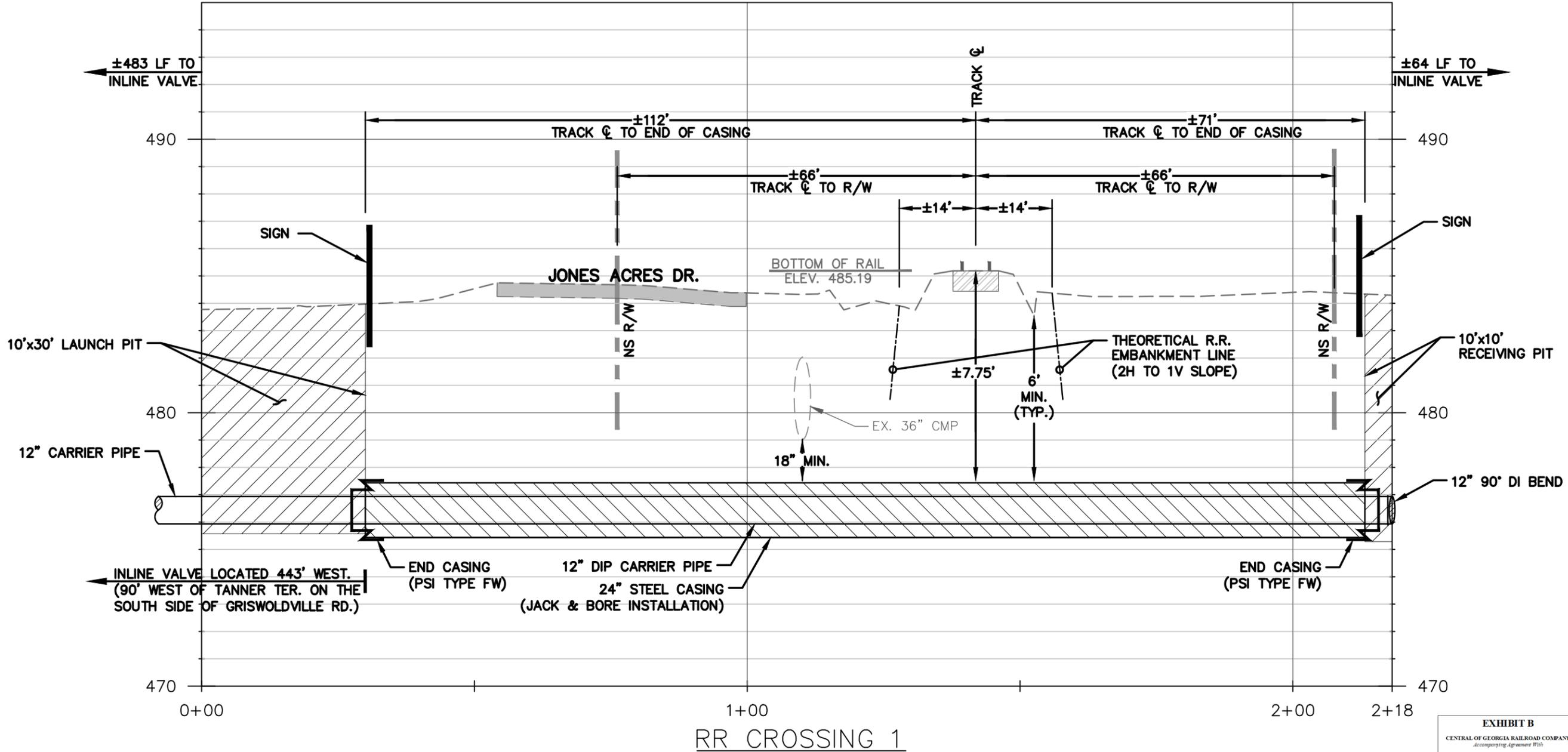
INGRAM & ASSOCIATES
 Consulting Engineers, LLC
 332 New Street
 Macon, Georgia 31201
 (T) 478-745-3996
 (F) 478-742-4600
 www.ingrameng.com

GRISWOLDVILLE RD. RAILROAD PERMIT FOR JONES COUNTY BOARD OF COMMISSIONERS
 JONES COUNTY, GA

PROJ. #: 116D-064-01
 DWG: PERMIT
 DSGN BY: TJ
 CAD BY: KDB
 CHECKED BY: TJ
 DATE: 09-03-2020
 SHEET #:
1
 SHT. 1 OF 2

REVISIONS:

1	11-1-2020 RR COMMENTS



GRISWOLDVILLE RD. RAILROAD PERMIT FOR JONES COUNTY BOARD OF COMMISSIONERS
 JONES COUNTY, GA

INGRAM & ASSOCIATES
 Consulting Engineers, LLC
 1002 Park Avenue N
 Tifton, Georgia 31793
 (T) 229-387-8536
 www.ingrameng.com

EXHIBIT B
 CENTRAL OF GEORGIA RAILROAD COMPANY
 Accompanying Agreement #18
 JONES COUNTY WATER DEPARTMENT
 Activity No: 1289126, E.S.: 9997-46
 Division: Canal, Mile Post: F-717
 Val Sec: 10, Map No.: 4
 City: Macon, County: Jones, State: Georgia
 Lat: 32.87524200, Long: -83.53902500
 All work to be performed in accordance with the latest approved N.E.C. Southern NSCE-4 and NSCE-8 Specifications
BLASTING NOT PERMITTED

- NOTES:**
- CASING SPACERS SHALL BE PSI TYPE PA/PE @ 6' O.C. MIN. OR AN APPROVED EQUAL.
 - TRACK MONITORING WILL BE REQUIRED FOR PROPOSED INSTALLATION.

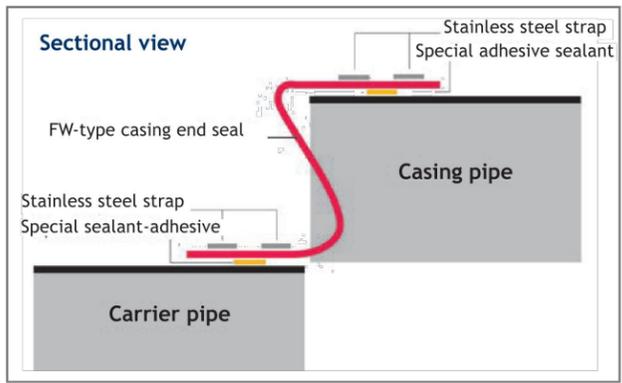
LOCATION: GRISWOLDVILLE RD. @ LARGO DR.
LATITUDE: 32.875242°
LONGITUDE: -83.539025°
HORIZONTAL SCALE: 1" = 20'
VERTICAL SCALE: 1" = 4'

RAILROAD PERMIT PROFILE VIEW



Technical Data:

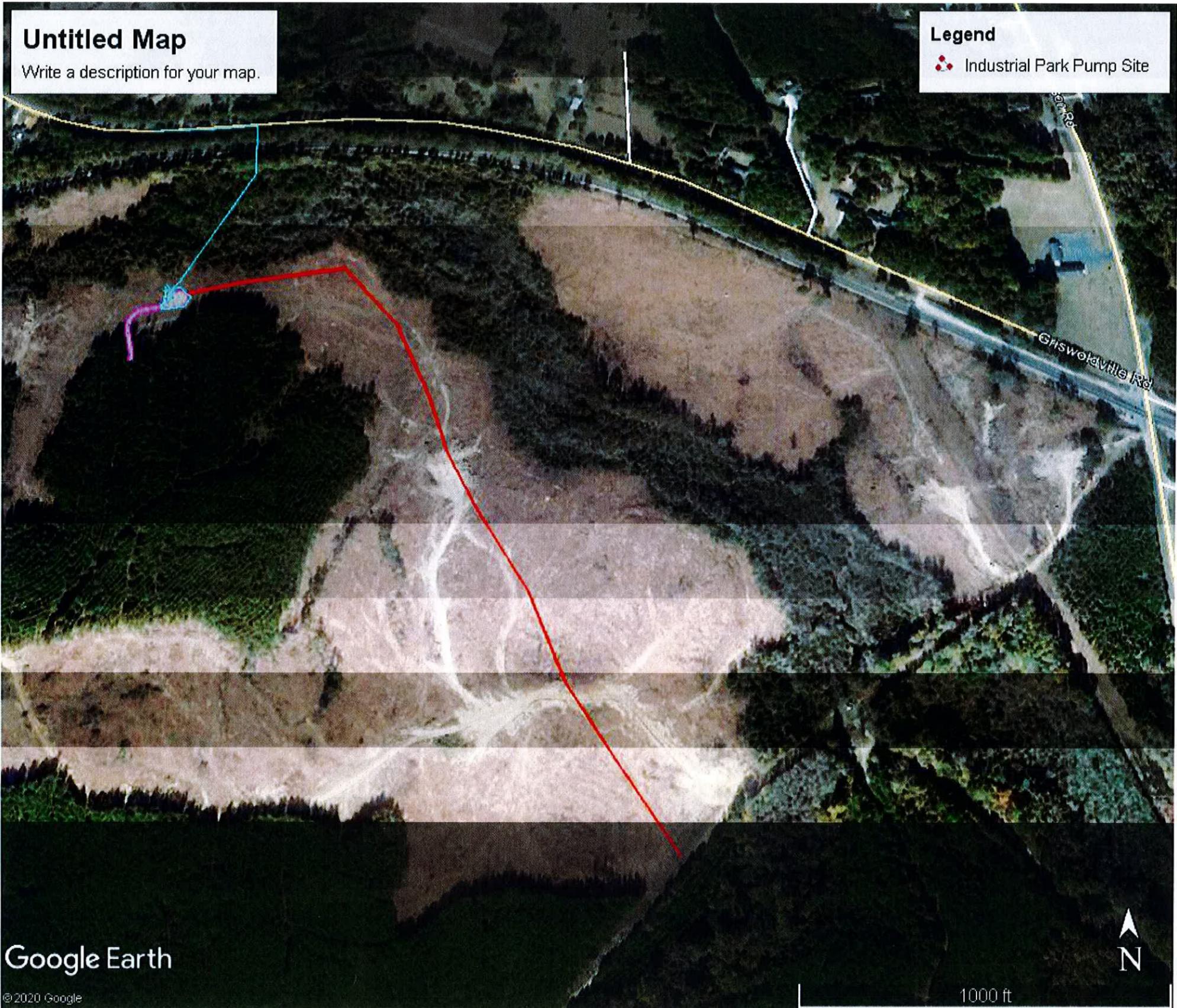
Material:	Rottolin
Material thickness:	9-11 mm
Color:	red
Shore hardness:	approx. 50°
Tensile strength:	11 N/mm ²
Elongation at breaking point:	400%
Tear strength:	27 N/mm
Max. continuous operating temp.	55 °C



CASING END SEAL DETAILS
 N.T.S.

PROJ. #: 1160-064-01
 DWG: PERMIT
 DSGN BY: TJ
 CAD BY: KDB
 CHECKED BY: TJ
 DATE: 09-03-2020
 SHEET #:
2
 SHT. 2 OF 2

Drawing File: R:\CAD\CAD Projects\1160 Jones County\1160-064-01 Industrial Park Forcemain Working Set\Railroad Permits.dwg



Untitled Map
Write a description for your map.

Legend
Industrial Park Pump Site

PROPOSED ELECTRICAL
SERVICE ROUTE
APPROX. SCALE 1" = 225'

Google Earth

© 2020 Google

1000 ft

