

ORIGINAL
STAMPED IN RED

RESOLUTION NO.: R-2020-036

Authorizing the City Manager to execute an Encroachment License Agreement (NS #1276211) between the City of Columbia and Norfolk Southern Railroad for the Catawba Street Sewer Replacement, CIP #SS7520

BE IT RESOLVED by the Mayor and City Council this 25th day of February, 2020, that the City Manager is authorized to execute the attached Encroachment License Agreement (NS #1276211) between the City of Columbia and Norfolk Southern Railroad for the Catawba Street Sewer Replacement, CIP #SS7520, for the terms and conditions therein contained.

Requested by:

Assistant City Manager Shealy



Mayor

Approved by:



City Manager

Approved as to form:



City Attorney

ATTEST:



City Clerk

Introduced: 2/25/2020

Final Reading: 2/25/2020

THIS AGREEMENT, dated as of the 26th day of June, 2020 is made and entered into by and between

NORFOLK SOUTHERN RAILWAY COMPANY, a Virginia corporation, whose mailing address is Three Commercial Place, Norfolk, Virginia 23510 (hereinafter called "Railway"); and

CITY OF COLUMBIA, a political subdivision of the State of South Carolina, whose mailing address is PO Box 147, Columbia, South Carolina 29217 (hereinafter called "Licensee").

WITNESSETH

WHEREAS, Licensee proposes to install, construct, maintain, operate and remove an existing undocumented underground crossing of a 12-inch vitrified clay gravity pipeline (hereinafter called the "Facilities") located in, under and across the right-of-way or property and any tracks of Railway, at or near:

- Milepost SC-128.49, Branchville-Columbia Line
- Latitude N 33.989868, Longitude W 81.025794
- Columbia, Richland County, South Carolina
- Valuation Section 36A, Map 4, Stationing n/a

the same to be located in accordance with and limited to the installation shown on print of drawings marked Exhibits A and B, received by Railway on October 7, 2019, and Pipe Data Sheet, attached hereto and made a part hereof; and

WHEREAS, Licensee desires a license to use such right-of-way or property of Railway for the installation, construction, maintenance, operation and removal of the Facilities.

NOW, THEREFORE, for and in consideration of the premises, the payment of a non-refundable, non-assignable one-time fee in the amount of TWELVE THOUSAND FIVE HUNDRED AND 00/100 DOLLARS (\$12,500.00) to cover the Risk Financing Fee (as hereinafter defined) in the amount of \$1,000.00 and a one-time license fee in the amount of \$11,500.00, and the covenants hereinafter set forth, Railway hereby permits and grants to Licensee, insofar as Railway has the right to do so, without warranty and subject to all encumbrances, covenants and easements to which Railway's title may be subject, the right to use and occupy so much of Railway's right-of-way or property as may be necessary for the installation, construction, maintenance, operation and removal of the Facilities (said right-of-way or property of Railway being hereinafter collectively called the "Premises"), upon the following terms and conditions:

1. Use and Condition of the Premises. The Premises shall be used by Licensee only for the installation, construction, maintenance, operation and removal of the Facilities and for no other purpose without the prior written consent of Railway, which consent may be withheld by Railway in its sole discretion. Licensee accepts the Premises in their current "as is" condition, as

suitable for the operation of the Facilities, and without the benefit of any improvements to be constructed by Railway.

2. Installation of the Facilities; Railway Support. Licensee shall, at its expense, install, construct, maintain and operate the Facilities on a lien-free basis and in such a manner as will not interfere with the operations of Railway, or endanger persons or property of Railway. Such installation, construction, maintenance and operation of the Facilities shall be in accordance with (a) the plans and specifications (if any) shown on the prints attached hereto and any other specifications prescribed by Railway, (b) applicable laws, regulations, ordinances and other requirements of federal, state and local governmental authorities, and (c) applicable specifications of the American Railway Engineering and Maintenance-of-Way Association, when not in conflict with the applicable plans, specifications, laws, regulations, ordinances or requirements mentioned in (a) and (b), above. All underground pipes must have secondary pipe containment if the material flowing through the pipeline poses a safety or environmental hazard. Any change to the character, capacity or use of the Facilities shall require execution of a new agreement.

3. Railway Support. Railway shall, at Railway's option, furnish, at the sole expense of Licensee, labor and materials necessary, in Railway's sole judgment, to support its tracks and to protect its traffic (including, without limitation, flagging) during the installation, construction, maintenance, repair, or removal of the Facilities.

4. Electronic Interference. Licensee will provide Railway with no less than sixty (60) days advance written notice prior to the installation and operation of cathodic protection in order that tests may be conducted on Railway's signal, communications and other electronic systems (hereinafter collectively called the "Electronic Systems") for possible interference. If the Facilities cause degradation of the Electronic Systems, Licensee, at its expense, will either relocate the cathodic protection or modify the Facilities to the satisfaction of Railway so as to eliminate such degradation. Such modifications may include, without limiting the generality of the foregoing, providing additional shielding, reactance or other corrective measures deemed necessary by Railway. The provisions of this paragraph 4 shall apply to the Electronic Systems existing as of the date of this Agreement and to any Electronic Systems that Railway may install in the future.

5. Corrective Measures. If Licensee fails to take any corrective measures requested by Railway in a timely manner, or if an emergency situation is presented which, in Railway's judgment, requires immediate repairs to the Facilities, Railway, at Licensee's expense, may undertake such corrective measures or repairs as it deems necessary or desirable.

6. Railway Changes. If Railway shall make any changes, alterations or additions to the line, grade, tracks, structures, roadbed, installations, right-of-way or works of Railway, or to the character, height or alignment of the Electronic Systems, at or near the Facilities, Licensee shall, upon thirty (30) days prior written notice from Railway and at its sole expense, make such changes in the location and character of the Facilities as, in the opinion of the chief engineering officer of Railway, shall be necessary or appropriate to accommodate any construction, improvements, alterations, changes or additions of Railway.

7. Assumption of Risk. Unless caused solely by the negligence of Railway or caused solely by the willful misconduct of Railway, Licensee hereby assumes all risk of damage to the Facilities and Licensee's other property relating to its use and occupation of the Premises or business carried on the Premises and any defects to the Premises; and Licensee, to the extent permitted by the laws of the State of South Carolina, hereby indemnifies Railway, its officers, directors, agents and employees from and against any liability for such damage.

8. Entry Upon Premises. Prior to commencement of any work to be performed on or about the Premises, 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 on or about the Premises without the presence of Railway's flagman or the Division Engineer's waiver of the requirement for flag protection. Entry on or about the Premises or any other 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.

9. Liens; Taxes. Licensee will not permit any mechanic's liens or other liens to be placed upon the Premises, and nothing in this Agreement shall be construed as constituting the consent or request of Railway, express or implied, to any person for the performance of any labor or the furnishing of any materials to the Premises, nor as giving Licensee any right, power or authority to contract for or permit the rendering of any services or the furnishing of any materials that could give rise to any mechanic's liens or other liens against the Premises. In addition, Licensee shall be liable for all taxes levied or assessed against the Facilities and any other equipment or other property placed by Licensee within the Premises. In the event that any such lien shall attach to the Premises or Licensee shall fail to pay such taxes, then, in addition to any other right or remedy available to Railway, Railway may, but shall not be obligated to, discharge the same. Any amount paid by Railway for any of the aforesaid purposes, together with related court costs, attorneys' fees, fines and penalties, shall be paid by Licensee to Railway within ten (10) days after Railway's demand therefor.

10. Indemnification. Licensee, to the extent permitted by the laws of the State of South Carolina, hereby agrees to indemnify and save harmless Railway, its officers, directors, agents and employees, from and against any and all liabilities, claims, losses, damages, expenses (including attorneys' fees) or costs for personal injuries (including death) and property damage to whomsoever or whatsoever occurring (hereinafter collectively called "Losses") that arise in any manner from (a) the installation, construction, maintenance, operation, presence or removal of, or the failure to properly install, construct, maintain, operate or remove, the Facilities, or (b) any act, omission or neglect of Licensee, its agents, servants, employees or contractors in connection therewith, unless caused solely by the negligence of Railway or caused solely by the willful misconduct of Railway.

11. Insurance.

(a) Without limiting in any manner the liability and obligations assumed by Licensee under any other provision of this Agreement, and as additional protection to Railway, Licensee 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, Licensee shall pay Railway a risk financing fee of \$1,000.00 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, Licensee, 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 Licensee pays the then current risk financing fee for each affected installation, Licensee, 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, Licensee, 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 Licensee 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).

12. Environmental Matters. Licensee assumes all responsibility for any environmental obligations imposed under applicable laws, regulations, ordinances or other requirements of federal, state and local governmental authorities relating to (a) the installation, construction, maintenance, operation or removal of the Facilities, including notification and reporting of any releases, and (b) any contamination of any property, water, air or groundwater arising or resulting, in whole or in part, from Licensee's operation or use of the Premises pursuant to this Agreement. In addition, Licensee shall obtain any necessary permits to install,

construct, maintain, operate or remove the Facilities. Licensee, to the extent permitted by the laws of the State of South Carolina, agrees to indemnify and hold harmless Railway from and against any and all fines, penalties, demands or other Losses (including attorneys' fees) incurred by Railway or claimed by any person, company or governmental entity relating to (a) any contamination of any property, water, air or groundwater due to the use or presence of the Facilities on the Premises, (b) Licensee's violation of any laws, regulations or other requirements of federal, state or local governmental authorities in connection with the use or presence of the Facilities on the Premises or (c) any violation of Licensee's obligations imposed under this paragraph. To the extent permitted by the laws of the State of South Carolina, this indemnity provision shall extend to any cleanup and investigative costs relating to any contamination of the Premises arising or resulting from, in whole or in part, Licensee's use of the Facilities or any other activities by or on behalf of Licensee occurring on or about the Premises. Licensee further agrees not to dispose of any trash, debris or wastes, including hazardous waste, on the Premises and will not conduct any activities on the Premises which would require a hazardous waste treatment, storage or disposal permit.

13. Assignments and Other Transfers.

(a) Licensee shall not assign, transfer, sell, mortgage, encumber, sublease or otherwise convey (whether voluntarily, involuntarily or by operation of law) this Agreement or any interest therein, nor license, mortgage, encumber or otherwise grant to any other person or entity (whether voluntarily, involuntarily or by operation of law) any right or privilege in or to the Premises (or any interest therein), in whole or in part, without the prior written consent of Railway, which consent may be withheld by Railway in its sole discretion. Any such assignment or other transfer made without Railway's prior written consent shall be null and void and, at Railway's option, shall constitute an immediate default of this Agreement. Notwithstanding the foregoing, upon prior written notice to Railway, Licensee may assign this Agreement to a parent, a wholly-owned subsidiary of Licensee or a wholly-owned subsidiary of Licensee's parent without Railway's consent; provided, however, that no such assignment shall relieve Licensee of its obligations under this Agreement.

(b) Railway shall have the right to transfer and assign, in whole or in part, all its rights and obligations hereunder and in or to the Premises. From and after the effective date of any such assignment or transfer, Railway shall be released from any further obligations hereunder; and Licensee shall look solely to such successor-in-interest of Railway for the performance of the obligations of "Railway" hereunder.

14. Meaning of "Railway". The word "Railway" as used herein shall include any other company whose property at the aforesaid location may be leased or operated by Railway. Said term also shall include Railway's officers, directors, agents and employees, and any parent company, subsidiary or affiliate of Railway and their respective officers, directors, agents and employees.

15. Default; Remedies.

(a) The following events shall be deemed to be events of default by Licensee under this Agreement:

(i) Licensee shall fail to pay the Fee or any other sum of money due hereunder and such failure shall continue for a period of ten (10) days after the due date thereof;

(ii) Licensee shall fail to comply with any provision of this Agreement not requiring the payment of money, all of which terms, provisions and covenants shall be deemed material, and such failure shall continue for a period of thirty (30) days after written notice of such default is delivered to Licensee;

(iii) Licensee shall become insolvent or unable to pay its debts as they become due, or Licensee notifies Railway that it anticipates either condition;

(iv) Licensee takes any action to, or notifies Railway that Licensee intends to file a petition under any section or chapter of the United States Bankruptcy Code, as amended from time to time, or under any similar law or statute of the United States or any State thereof; or a petition shall be filed against Licensee under any such statute; or

(v) A receiver or trustee shall be appointed for Licensee's license interest hereunder or for all or a substantial part of the assets of Licensee, and such receiver or trustee is not dismissed within sixty (60) days of the appointment.

(b) Upon the occurrence of any event or events of default by Licensee, whether enumerated in this paragraph 15 or not, Railway shall have the option to pursue any remedies available to it at law or in equity without any additional notices to Licensee. Railway's remedies shall include, but not be limited to, the following: (i) termination of this Agreement, in which event Licensee shall immediately surrender the Premises to Railway; (ii) entry into or upon the Premises to do whatever Licensee is obligated to do under the terms of this License, in which event Licensee shall reimburse Railway on demand for any expenses which Railway may incur in effecting compliance with Licensee's obligations under this License, but without rendering Railway liable for any damages resulting to Licensee or the Facilities from such action; and (iii) pursuit of all other remedies available to Railway at law or in equity, including, without limitation, injunctive relief of all varieties.

16. Railway Termination Right. Notwithstanding anything to the contrary in this Agreement, Railway shall have the right to terminate this Agreement and the rights granted hereunder, after delivering to Licensee written notice of such termination no less than sixty (60) days prior to the effective date thereof, upon the occurrence of any one or more of the following events:

(a) If Licensee shall discontinue the use or operations of the Facilities; or

(b) If Railway shall be required by any governmental authority having jurisdiction over the Premises to remove, relocate, reconstruct or discontinue operation of its railroad on or about the Premises; or

(c) If Railway, in the good faith judgment of its Superintendent, shall require a change in the location or elevation of its railroad on or about the location of the Facilities or the Premises that might effectively prohibit the use or operation of the Facilities; or

(d) If Railway, in the good faith judgment of its Superintendent, determines that the maintenance or use of the Facilities unduly interferes with the operation and maintenance of the facilities of Railway, or with the present or future use of such property by Railway, its lessees, affiliates, successors or assigns, for their respective purposes.

17. Condemnation. If the Premises or any portion thereof shall be taken or condemned in whole or in part for public purposes, or sold in lieu of condemnation, then this Agreement and the rights granted to Licensee hereunder shall, at the sole option of Railway, forthwith cease and terminate. All compensation awarded for any taking (or sale proceeds in lieu thereof) shall be the property of Railway, and Licensee shall have no claim thereto, the same being hereby expressly waived by Licensee.

18. Removal of Facilities; Survival. The Facilities are and shall remain the personal property of Licensee. Upon the expiration or termination of this Agreement, Licensee shall remove the Facilities from the Premises within thirty (30) days after the effective date thereof. In performing such removal, unless otherwise directed by Railway, Licensee shall restore the Premises to the same condition as existed prior to the installation or placement of Facilities, reasonable wear and tear excepted. In the event Licensee shall fail to so remove the Facilities or restore the Premises, the Facilities shall be deemed to have been abandoned by Licensee, and the same shall become the property of Railway for Railway to use, remove, destroy or otherwise dispose of at its discretion and without responsibility for accounting to Licensee therefor; provided, however, in the event Railway elects to remove the Facilities, Railway, in addition to any other legal remedy it may have, shall have the right to recover from Licensee all costs incurred in connection with such removal and the restoration of the Premises. Notwithstanding anything to the contrary contained in this Agreement, the expiration or termination of this Agreement, whether by lapse of time or otherwise, shall not relieve Licensee from Licensee's obligations accruing prior to the expiration or termination date, and such obligations shall survive any such expiration or other termination of this Agreement.

19. Entire Agreement. This Agreement contains the entire agreement of Railway and Licensee and supersedes any prior understanding or agreement between Railway and Licensee respecting the subject matter hereof; and no representations, warranties, inducements, promises or agreements, oral or otherwise, between the parties not embodied in this Agreement shall be of any force or effect.

20. Attorneys' Fees. If Railway should bring any action under this Agreement, or consult or place the Agreement or any amount payable by Licensee hereunder, with an attorney concerning or for the enforcement of any of Railway's rights hereunder, then Licensee agrees in each and any such case to pay to Railway all costs, including but not limited to court costs and attorneys' fees, incurred in connection therewith.

21. Severability. If any clause or provision of this Agreement is illegal, invalid or unenforceable under present or future laws effective during the term of this Agreement, then and in that event, it is the intention of the parties hereto that the remainder of this Agreement shall not be affected thereby; and it is also the intention of the parties to this Agreement that in lieu of each clause or provision of this Agreement that is illegal, invalid or unenforceable, there be added as a part of this Agreement a clause or provision as similar in terms to such illegal, invalid or unenforceable clause or provision as may be possible and be legal, valid and enforceable.

22. Modifications; Waiver; Successors and Assigns. This Agreement may not be altered, changed or amended, except by instrument in writing signed by both parties hereto. No provision of this Agreement shall be deemed to have been waived by Railway unless such waiver shall be in a writing signed by Railway and addressed to Licensee, and no such waiver shall affect or alter this Agreement, but each and every covenant, condition, agreement and term of this Agreement shall continue in full force and effect. No nor shall any custom or practice that may evolve between the parties in the administration of the terms hereof shall be construed to waive or lessen the right of Railway to insist upon the performance by Licensee in strict accordance with the terms hereof. The terms and conditions contained in this Agreement shall apply to, inure to the benefit of, and be binding upon the parties hereto, and upon their respective successors in interest and legal representatives, except as otherwise herein expressly provided. If there shall be more than one Licensee, the obligations hereunder imposed upon Licensee shall be joint and several.

23. Notice. Any and all other notices, demands or requests by or from Railway to Licensee, or Licensee 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 Licensee:
City of Columbia
PO Box 147
Columbia, South Carolina 29217
Attention: Department of Engineering

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).

24. Miscellaneous. All exhibits, attachments, riders and addenda referred to in this License are incorporated into this Agreement and made a part hereof for all intents and purposes. Time is of the essence with regard to each provision of this Agreement. This Agreement shall be construed and interpreted in accordance with and governed by the laws of the State in which the Premises are located. Each covenant of Railway and Licensee under this Agreement is independent of each other covenant under this Agreement. No default in performance of any covenant by a party shall excuse the other party from the performance of any other covenant. The provisions of Paragraphs 7, 9, 10, 12 and 18 shall survive the expiration or earlier termination of this Agreement.

25. Limitations of Grant. Licensee acknowledges that the license granted hereunder is a quitclaim grant, made without covenants, representations or warranties with respect to Railway's (a) right to make the grant, (b) title in the Premises, or (c) right to use or make available to others the Premises for the purposes contemplated herein. Railway is the owner and/or holder of the Premises subject to the terms and limitations under which it is owned or held, including without limitation conditions, covenants, restrictions, easements (including any pre-existing fiber optic easements or licenses), encroachments, leases, licenses, permits, mortgages, indentures, reversionary interests, fee interests, zoning restrictions and other burdens and limitations, of record and not of record, and to rights of tenants and licensees in possession, and Licensee agrees that the rights licensed hereunder are subject and subordinate to each and all of the foregoing. Licensee accepts this grant knowing that others may claim that Railway has no right to make it, and Licensee, to the extent permitted by the laws of the State of South Carolina, agrees to release, hold harmless and indemnify (and, at Railway's election, defend, at Licensee's sole expense, with counsel approved by Railway) Railway, its affiliated companies, and its and their respective officers, directors, agents and employees, from and against any detriments to, or liabilities of, any type or nature arising from such claims, including punitive damages and any forfeitures declared or occurring as a result of this grant.

26. Limitations Upon Damages. Notwithstanding any other provision of this Agreement, Railway shall not be liable for breach of this Agreement or under this Agreement for any consequential, incidental, exemplary, punitive, special, business damages or lost profits, as well as any claims for death, personal injury, and property loss and damage which occurs by reason of, or arises out of, or is incidental to the interruption in or usage of the Facilities placed upon or about the Premises by Licensee, including without limitation any damages under such claims that might be considered consequential, incidental, exemplary, punitive, special, business damages or lost profits.

[Remainder of page intentionally left blank]

IN WITNESS WHEREOF, the parties hereto have executed this Agreement in duplicate, each part being an original, as of the date first above written.

Witness:

NORFOLK SOUTHERN RAILWAY
COMPANY

Keyna Hellaway
As to Railway

By: Malcolm G. Roof
Real Estate Manager

Witness: 1

CITY OF COLUMBIA

Tasha Wate
As to Licensee

By: Teresa B. Wilson
Title: City Manager

Witness: 2

[Signature]
As to Licensee

APPROVED AS TO FORM
[Signature]
Legal Department City of Columbia, SC

STATE OF SOUTH CAROLINA)

COUNTY OF RICHLAND)

ACKNOWLEDGEMENT

The foregoing instrument was acknowledged before me this 9th day of March, 2020 by Teresa B. Wilson, City Manager on behalf of the within-named City of Columbia, South Carolina.

[Signature]
NOTARY PUBLIC FOR THE STATE OF SOUTH CAROLINA
MY COMMISSION EXPIRES: 2/19/2023

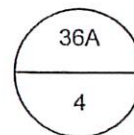
Activity Number 1276211
AD: October 24, 2019
File No. 1794277v1

PIPE DATA SHEET

	CARRIER PIPE	CASING PIPE
CONTENTS TO BE HANDLED	SEWER	
MAX. ALLOWABLE OPERATING PRESSURE	GRAVITY	
NOMINAL SIZE OF PIPE	12"	
OUTSIDE DIAMETER	14.6"	
INSIDE DIAMETER	13"	
WALL THICKNESS	1.6"	
WEIGHT PER FOOT	VCP=60LB/FT	
MATERIAL	VCP/CIPP	
PROCESS OF MANUFACTURE	FELT & RESIN SYSTEM	
SPECIFICATION	SEE ATTACHED	
GRADE OR CLASS (Specified Minimum Yield Strength)	SEE SPEC	
TEST PRESSURE	SEE SPEC	
TYPE OF JOINT	NONE	
TYPE OF COATING	RESIN	
DETAILS OF CATHODIC PROTECTION	N/A	
DETAILS OF SEALS OR PROTECTION AT END OF CASING	N/A	
CHARACTER OF SUBSURFACE MATERIAL	UNK	
APPROXIMATE GROUND WATER LEVEL	UNK	
SOURCE OF INFORMATION ON SUBSURFACE CONDITIONS	UNK	

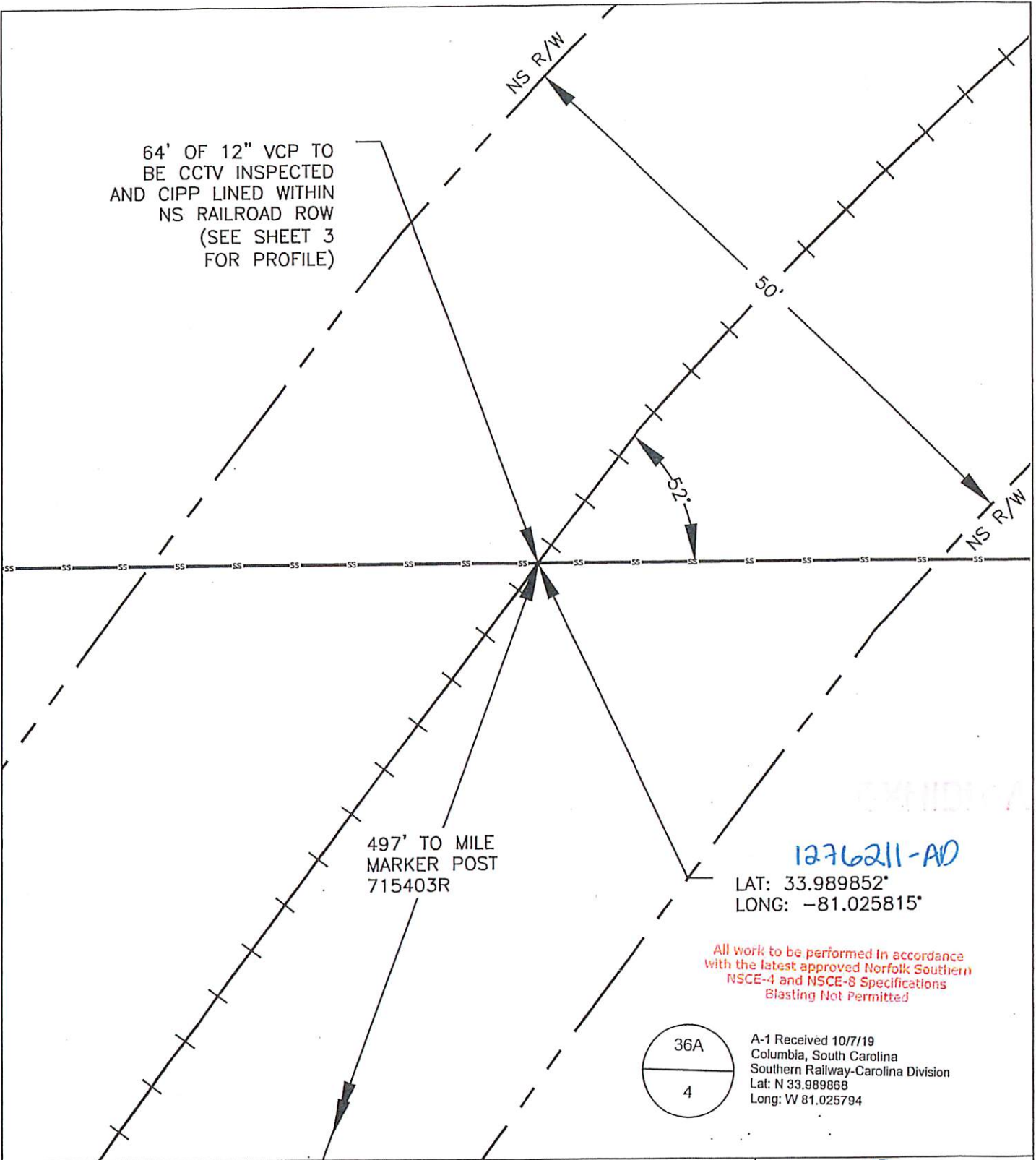
Proposed method of installation (refer to NSCE-8 Specification):

- Bore and 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 (Specify): CIPP LINING



A-1 Received 10/7/19
Columbia, South Carolina
Southern Railway-Carolina Division
Lat: N 33.989868
Long: W 81.025794

1276211-AD



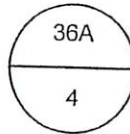
64' OF 12" VCP TO
BE CCTV INSPECTED
AND CIPP LINED WITHIN
NS RAILROAD ROW
(SEE SHEET 3
FOR PROFILE)

497' TO MILE
MARKER POST
715403R

1276211-AD

LAT: 33.989852°
LONG: -81.025815°

All work to be performed in accordance
with the latest approved Norfolk Southern
NSCE-4 and NSCE-8 Specifications
Blasting Not Permitted



A-1 Received 10/7/19
Columbia, South Carolina
Southern Railway-Carolina Division
Lat: N 33.989868
Long: W 81.025794



We Are Columbia

PLAN VIEW

CITY OF COLUMBIA, SOUTH CAROLINA
1136 WASHINGTON STREET
COLUMBIA, SC 29201
(803) 545-3400

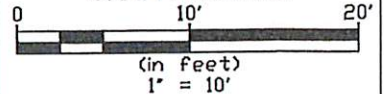
SS7520- CATAWBA STREET SEWER REHAB
NORFOLK SOUTHERN RAILROAD CROSSING

DATE: 07-17-2019	SCALE: 1" = 10'
SHEET: 2 OF 3	PROJECT: 2180364
DRAWN BY: RMU	DESIGN BY: RMU
CHECK BY: WHD	APPROVED: WHD

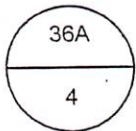


Weston & Sampson

GRAPHIC SCALE

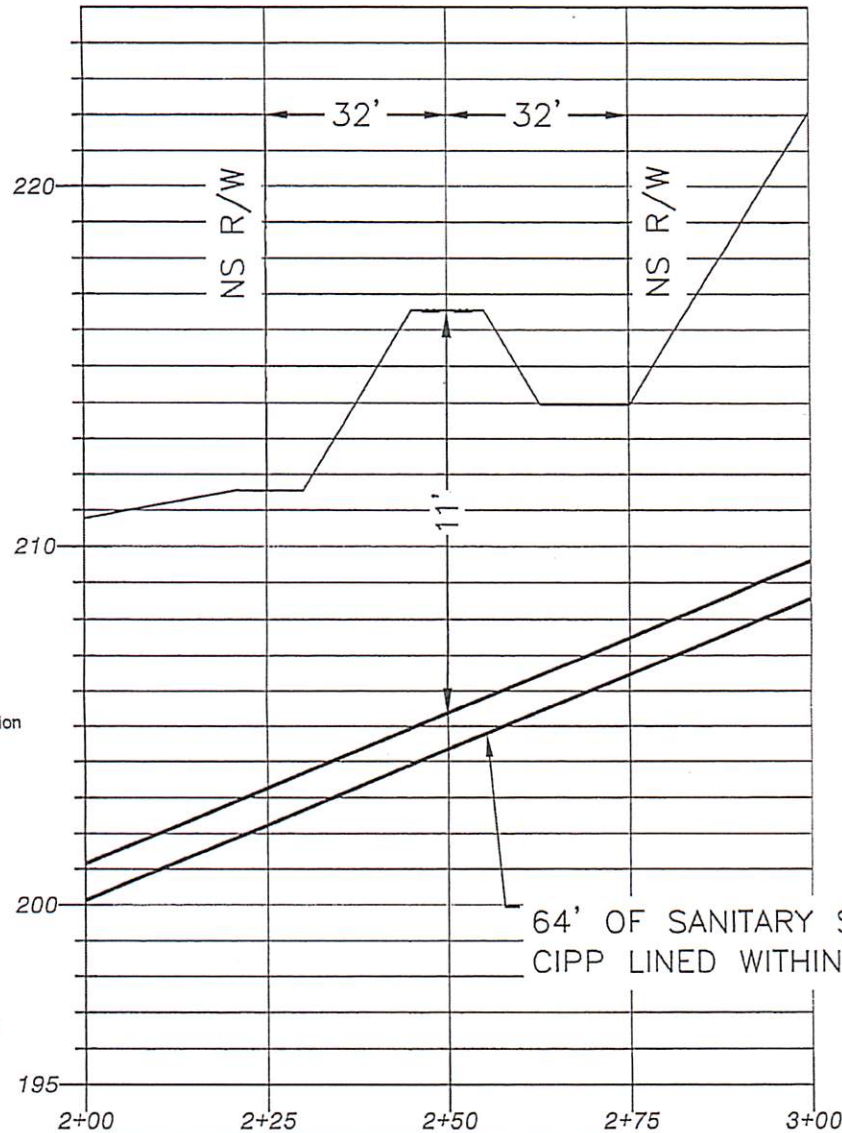


1276211-AD



A-1 Received 10/7/19
 Columbia, South Carolina
 Southern Railway-Carolina Division
 Lat: N 33.989868
 Long: W 81.025794

All work to be performed in accordance
 with the latest approved Norfolk Southern
 NSCE-4 and NSCE-8 Specifications
 Blasting Not Permitted



We Are Columbia

PROFILE VIEW

CITY OF COLUMBIA, SOUTH CAROLINA
 1136 WASHINGTON STREET
 COLUMBIA, SC 29201
 (803) 545-3400

**SS7520- CATAWBA STREET SEWER REHAB
 NORFOLK SOUTHERN RAILROAD CROSSING**

DATE: 07-17-2019	SCALE: 1" = 30'
SHEET: 3 OF 3	PROJECT: 2180364
DRAWN BY: RMU	DESIGN BY: RMU
CHECK BY: WHD	APPROVED: WHD



GRAPHIC SCALE

