Development Authority of the North Country

Procedure Title:	**SOP FOR ROUTE 3 SEWER CORRIDOR CONNECTIONS INFORMATION AND INSTRUCTIONS FOR PROPERTY OWNERS AND CONTRACTORS**
Document Type:	**PROCEDURE WQ**
Rev #:	**15**
Document Owner:	**Assistanct Director, Engineering**
Document Owner Supervisor:	**Engineering, Division Director**
Review Cycle:	**Annual**

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1. Purpose

The purpose of this procedure is to describe the application process and the basic technical requirements for the installation of new connections and disconnections within the Route 3 Sewer Corridor.

This document was developed to explain the Route 3 Sewer / Development Board's (Board) requirements and provide guidelines for property owners and contractors. All required forms are included in this document. Please read through this document carefully. Submittal of a complete application form will help ensure that your permit is approved in a timely manner.

Information is periodically updated by the Board so please check with your local Town/Village Clerk to make sure you have the most recent copy of the document available.

2. Responsibilities

2.1. The System Owner (Owner) is the town or village in which the new sewer connection will reside. The Owner is responsible for administering and overseeing this procedure. The Owner is also responsible for filing a new easement with Jefferson County (County).

2.2. New sewer customers are responsible for:

a. Completion of a Route 3 Sewer Service Application (Appendix A) for all new connections. This application is required for the connection to be considered for incorporation into the Route 3 Sewer Corridor. Approval is required before any work can commence. Based upon the complexity of the connection, an engineering firm might be necessary to be hired to provide the necessary drawing and details for application approval.
b. Hiring an approved contractor to make the connection to the sewer system. Approved contractors are identified in Section 3.5.
c. Scheduling a new connection inspection with the Owner prior to connecting into the Route 3 Sewer System.
d. Executing an easement, as required, with the Owner.

e. Paying all construction, engineering, easement filing, and inspection fees associated with the new sewer connection.

2.3. Existing sewer customers are responsible for:

a. Identifying the location of the sewer lateral they wish to disconnect.
b. Hiring an approved contractor to make the disconnection from the sewer main and make the necessary capping at the sewer main and sewer lateral.
c. Removing the abandoned sewer lateral within the Owner's easement.
d. Scheduling an inspection with the Owner to confirm the lateral was properly disconnected and capped.

2.4. The Development Authority of the North Country (Authority) is responsible for operating and maintaining the Route 3 Sewer Corridor. As the system operator, the Authority is responsible for ensuring that new connections are constructed and installed in accordance with applicable design standards. The Authority is also responsible for documenting new connections and distributing details to the Owner. Any questions should be directed to the Owner.

3. General Requirements

3.1. The Owner can only provide service to customers that are located within an existing sewer district.

3.2. Owners within the Route 3 Sewer Corridor require that new sewer services are turned over to the Owner to operate and maintain. Applicants should consult the Owner if this is unclear. If you are constructing a new service lateral in an Owner's service area your service will be turned over to the Owner after construction. This will require an updated easement showing the location of any new system components, and must be filed with the County. This easement provides the Owner with required legal access to maintain the sewer service. The customer is responsible for all fees associated with the execution and filing of new easements. The Owner will file the easement with the County. An easement template is provided in Appendix B.

3.3. If a property resides within an existing Route 3 sewer district, that property is required to be connected to the Route 3 Sewer System. Disconnections shall only occur if there are redundant laterals, a property owner is moving a lateral, or other extenuating circumstances as approved by the Owner. Whether or not to allow the disconnection of a lateral shall be at the full discretion of the Owner. Property owners are not permitted to disconnect from the Route 3 Sewer system without prior approval from the Owner. Property owners shall be solely responsible for any expenses incurred with disconnection and removal of a connected sewer lateral.

3.4. Requests for connection into the Route 3 Sewer Corridor require the submission of the *Route 3 Sewer Service Application,* which can be found in Appendix A.

3.5. Connections must be designed and constructed in accordance with the original criteria identified in the contract documents and specification relating to the respective system, unless the proposed criteria can be shown to be more advanced and of better quality than that of the original specification. Contract documents are available at the Owner's offices, and at the Development Authority of the North Country's Warneck Pump Station located at 23557 NYS Route 37, Watertown, NY 13601.

3.6. Customers **must** utilize a contractor approved by the Authority for the installation of any sewer connections. The following contractors have been approved by the Authority:

3.6.1. Contractors Approved to Perform Direct Connections to Sewer Mainlines and Lateral Installations

Contractor	Address	Phone Number
Bach & Co.	11176 County Route 9 Clayton, NY	315-686-3083
Lawman Heating & Cooling, Inc.	206 Ambrose Street Sackets Harbor, NY 13685	315-646-2919
Luck Brothers Inc.	73 Trade Road Plattsburgh, NY 12901	518-561-4321
Marcellus Construction Co., Inc.	11151 US Route 11 Adams, NY 13605	315-232-2847
North Country Contractors LLC	P. O. Box 348 Calcium, NY 13616	315-785-5649
Steven J. Hall	3128 NYS RT 12E Cape Vincent, NY 13618	315-654-3691
Syracuse Utilities	9559 Brewerton Rd. Brewerton, NY 13029	315-676-2021
Thomas Excavating	16399 NYS Rte. 178 Adams, NY 13605	315-232-2162
Powis Contracting, Inc	9421 Number Three Road Copenhagen, NY 13626	315-688-2529

3.7. All new connections must include a means for metering in order to accurately bill for the services provided. For large commercial or industrial customers this may require a sewer meter. Residential customers must be a current water customer or must install a meter on their private well.

3.8. Most sewer service determinations will be made within 30 days of receipt of a complete Route 3 Sewer Service Application. The application only applies to sewer connection to the Owner's system. All other required site development permits must still be obtained. Please consult your Town or Village Clerk or Code Enforcement Officer for any additional requirements.

4. Technical Requirements

Detailed technical requirements for sanitary sewer systems are presented in the latest Contract Documents and Drawings for the Route 3 Sewer Corridor. Customers may reference these documents to determine acceptable pipe material, covering, backfill, etc. More complex systems may require that the customer hire an engineer licensed by the State of New York to complete the design. Detailed information and drawings are available by requesting a copy of the Route 3 Contract Documents and Drawings from the Authority at 315-661-3210.

4.1. New Gravity Sewer Lateral Requirements

Some basic requirements for single family gravity sewer laterals are listed below and are included with more detail in Section 02733 of the Contract Documents; and in the Sewer Installation Details found in Appendix C:

a. The minimum horizontal distance between water and sewer line shall be 10' except when lines must cross. At intersections water and sewer lines shall be separated by a minimum of 18 vertical inches.
b. The minimum vertical separation between buried electrical and sewer line shall be 18" when lines must cross. The minimum horizontal distance shall be 2'.
c. Water and sewer lines shall not share excavation trenches with other utilities and must be separated by a minimum distance of 6 feet whenever possible.
d. Laterals shall be installed with a minimum of 36 inches of cover.
e. Magnetic marking tape 2 inches wide with the words SANITARY SEWER BELOW shall be installed not more than 2 feet below finished grade for all sewer laterals.
f. Gravity sewer laterals shall be 4" PVC Plastic SDR 35 pipe and fittings. Pipe shall be joined with integral bell and spigot rubber gasketed joints.
g. 4" service laterals shall be installed at a minimum of ¼" per 1' slope (2%).
h. Service laterals shall be connected to existing sewer main lines through the use of a machine drilled hole using equipment expressly made for this purpose. Laterals shall be connected to the sewer main through the use of an Inserta Tee Fitting made for PVC SDR 35 pipe. Fittings are available by contacting the manufacturer (Advanced Drainage Systems, Inc (ADS), Tel. (503-357-2110) or Insertasales@ADSpipe.com or one of their suppliers.
i. Sewer laterals shall not be connected directly to manholes.
j. Cleanouts shall be provided at least every 100'; at each change in direction of the line; and between 2' to 10' from the house foundation.
k. For normal soil conditions, the trench shall be excavated 4 inches deeper than the bottom of the pipe. Pipe bedding material used shall be NYSDOT Subbase Course 304 Type 2 crushed stone.
l. Backfill material shall be free of roots and vegetation and shall have no stones greater than 4 inches in diameter.
m. Pipe bedding shall be placed in maximum lifts of 8 inches after the pipe is joined.
n. Do not compact directly over PVC pipe until backfill has reached 2 feet above top of pipe.

4.2. Disconnection of Gravity Sewer Lateral Requirements

a. Gravity sewer laterals shall be cut and disconnected from the sewer main within 18" of the sewer main.
b. If sewer lateral is constructed of plastic material, property owner may cap lateral using an approved pipe cap constructed of identical material to the pipe material.
c. If sewer lateral is of non-plastic construction, the sewer lateral shall be plugged with a non-shrink cement grout such as "Water Plug" or an approved equal. If any obstruction of the sewer main occurs due to the plugging of the pipe, property owner is responsible for any necessary repairs.
d. The sewer lateral shall be removed from the main to the cleanout. No abandoned lateral shall remain buried within the Owner's easement.

4.3. Low Pressure Sewer Lateral Requirements

Some basic requirements for single family gravity sewer laterals are listed below and are included with more detail in Section 02733 of the Contract Documents and in the Sewer Installation Details found at the end of this document:

a. Gravity sewer laterals that cannot meet minimum slope requirements will require a grinder pump.
b. Grinder pumps will be supplied by the Authority and must be installed by an approved contractor.
c. The grinder pump must be paid for by the property owner before it can be supplied to the contractor. The property owner will pay the municipality for the cost of the pump. These funds will be forwarded to the Authority by the Owner with the completed Route 3 Sewer Service Application. Once the Authority receives payment the pump can be released to the contractor for installation.
d. The property owner's contractor must install the grinder pump in accordance with Section 11308 of the Route 3 Contract Documents for the Route 3 Sewer Corridor, and E-One Grinder Pump Installation Instructions. Copies of these documents are available upon request from the Authority.

4.4. Disconnect of Low Pressure Sewer Lateral Requirements

a. Prior to disconnection of lower pressure sewer lateral, contractor shall disconnect power and lateral from existing grinder pump.
b. Pump shall be removed and relinquished to the Owner.
c. Low pressure sewer lateral shall be cut and disconnected within 18" of the sewer main.
d. If sewer lateral is constructed of plastic material, property owner may cap lateral use an approved pipe cap of identical material to the pipe material.
e. The remaining sewer lateral shall be removed from the disconnect point to the connection point of the grinder pump. No abandoned lateral shall remain buried within the Owner's easement.

5. Submittal Requirements

All new service connections must be reviewed and approved by the Owner, their Engineer, and the Authority. The property owner must submit a completed Route 3 Sewer Service Application to the Clerk in the Town or Village in which the proposed sewer service connection will be located. The application must be submitted with the proper connection fee and a location sketch. The location sketch must show the property boundaries,

buildings, approximate length of service lateral with reference dimensions to two permanent structures, location of cleanouts, tie-in point to mainline, and any other relevant information. An example of an acceptable location sketch is attached for reference in Appendix A.

New sewer service connections require that services be turned over to the Owner for operation and maintenance after construction in accordance with the Owner's Sewer Use Law. As such, the Customer will be required to execute a property easement providing access to the municipality. Customers should contact the Town or Village Clerk to complete the easement process. A standard Route 3 Sewer Easement is attached for reference in Appendix B. This easement must be executed and submitted with the applicable County filing fee prior to obtaining approval for connection.

For disconnection of existing services, the property owner must submit a completed Route 3 Sewer Disconnection Application to the Clerk in the Town or Village in which the disconnection is to occur. The application must be submitted with a location sketch that indicates property boundaries, buildings, approximate length of the existing lateral to be removed, and any information on ancillary infrastructure to also be removed.

6. Inspection Requirements

All approved connection and disconnection requests must be inspected by an Authority representative. The connection/disconnection inspection must be scheduled with the Authority at least 48-hours prior to the connection/disconnection. Customers must have an approved Route 3 Sewer Service Application on file with the Authority prior to scheduling an inspection. The Authority will charge our posted billable rates to review the application and inspect the service. If the connection is scheduled outside normal business hours, then overtime rates will apply. To schedule an inspection please contact your Town or Village Clerk.

7. Record of Revisions

Revision Date	Staff Member	Revision Made	Revision
3/16/2005		Original Document Created	0
5/12/2006		Updated to ask about private well	1
6/20/2006		Updated to include lateral only approved contractors	2
8/15/2006		Updated Marcellus Construction's mailing address	3
8/15/2007		Added Houppert Builders Inc. to Section 3.6.1	4
9/24/2008		Deleted Mellon and Day Const. in Section 3.6.1	5
9/30/2011		Replaced TOR Supervisor, added Sewer Lateral Detail, added Sample Sewer Lateral Connection detail, Updated DANC phone number, updated contractor list, added No. 2 in	6

		Section 4.1 and updated criteria in No. 10.	
8/15/2012		Changed Gary Eddy to Ray Cramer, deleted Bat-Con from contractor list	7
9/27/2013		Added Cunningham Excavation to Section 3.6.1 Minor edit to Section 4.1, number 3)	8
9/24/2014		Updated Approved Contractor List	9
11/2/2016	S. Fitzpatrick	Added Low Pressure Sewer Flushing Connection	10
9/25/2020	W. Jesmore II	Annual Update - changed contact Info	11
3/10/2021	B. Nutting	Changed Contact Info	12
3/4/2022	W. Jesmore II	Updated contacts	13
3/10/2023	J. Jacques	Minor formatting and editorial changes	14
2/27/2025	J. Jacques	Updated to new SOP format and minor editorial changes. Added new approved contractor.	15

Appendix A

Route 3 Sewer Service
Residential and Commercial Application

INSTRUCTIONS

- All information must be typed or legibly printed.
- All sections of the form must be completed to avoid delays in processing.
- The property owner must sign the form.
- Submit completed form with payment and Location Sketch to the Clerk in the Town/Village in which the new service or disconnection is to be located.
- The Clerk will forward the application for Technical Review.
- You will be notified by phone if your permit has been approved or if your permit is missing information required to properly review. If your application is denied you will be notified in writing as to the reason.

GENERAL INFORMATION *(To Be Completed By Customer)*

Property Owner's Name:_____ Phone (____) _____

Owner's Address:_____City_____ State ____ Zip _____

Job Address:_____ City_____ State ____ Zip _____

Tax Parcel ID No. _____ ☐ Residential ☐ Commercial

Does this new connection require a hot-tap into the sewer mainline ☐ Yes ☐ No

Approved Contractor:_____ Phone (____) _____

Contractor's Address:_____City_____State ____ Zip _____

Is the application for a new connection or disconnection? ☐ New Connection ☐ Disconnection

Is the requested connection to serve an existing structure? ☐ Yes ☐ No If yes, is the requested connection to relieve a failing septic? ☐ Yes ☐ No

If requesting disconnection, provide reasoning: ☐ Multiple laterals on one property ☐ Decommissioning existing connection to reinstall ☐ Other _____

Does property receive potable water from private well? ☐ Yes ☐ No

If the requested connection is to serve a new structure, what is the anticipated occupancy date? _____

☐ A Sketch of the new service connection/disconnection **is attached**.

OWNER'S CERTIFICATION *(To Be Completed By Customer)*

Application is hereby made to obtain a permit to do the work and installation as indicated. I certify that I am the Owner of the property located at _____ and that I am requesting a permit to install a new sewer service.

In consideration of the granting of this permit, I agree to the following:

1) That no work or installation has commenced prior to the issuance of a permit;
2) That all work will be performed to meet the standard of all applicable State and Local laws regulating construction;
3) To maintain the sewer service lateral or provide formal property easement to the Town/Village to maintain the sewer service lateral in accordance with the applicable municipality's Sewer Use Ordinance
4) To schedule an inspection of the service with DANC before any portion of the work is covered and prior to connecting into the main sewer line.

Date: _____ Signed: _____

MUNICIPAL REVIEW *(To Be Completed By Municipality)*

Is a new/updated property easement required? ☐ No ☐ Yes

- If easement is required it must be executed prior to connection approval.

Standard Sewer Connection Fee: ☐ $150

Grinder Pump, if required Fee: ☐ _____ TOTAL DUE: _____

☐ Payment Received By _____ on _____.

Municipal approval that applicant is eligible for new service connection to the R3 Sewer Corridor

Date: _____ Signed: _____

TECHNICAL REVIEW ***(To Be Completed By DANC)***

Application Reviewed By: _____ Date: _____

Application Action: ☐ Approved, as submitted ☐ Approved with conditions

☐ Returned, due to incomplete submittal ☐ Denied (See Attached)

Sewer Lateral Connection/Disconnection

Town/Village:_____

House No.:_____ Owner:_____ Contractor:_____

Street:_____ Date Installed:_____ _____

1. Service Pipe Installation

a) Lateral size _____

b) Pipe Material ☐SDR 35 ☐other_____

c) Curb Stop ☐yes ☐no

d) Grinder Pump ☐yes ☐no Make:_____ Model:_____

2. Connection to House Line _____

3. Length of Service _____

4. Diameter of Sewer Main _____

5. Depth of Curb Stop _____

6. ☐Force Main ☐Gravity

General Notes:_____

_____

_____

_____

_____

Sewer Lateral Connection

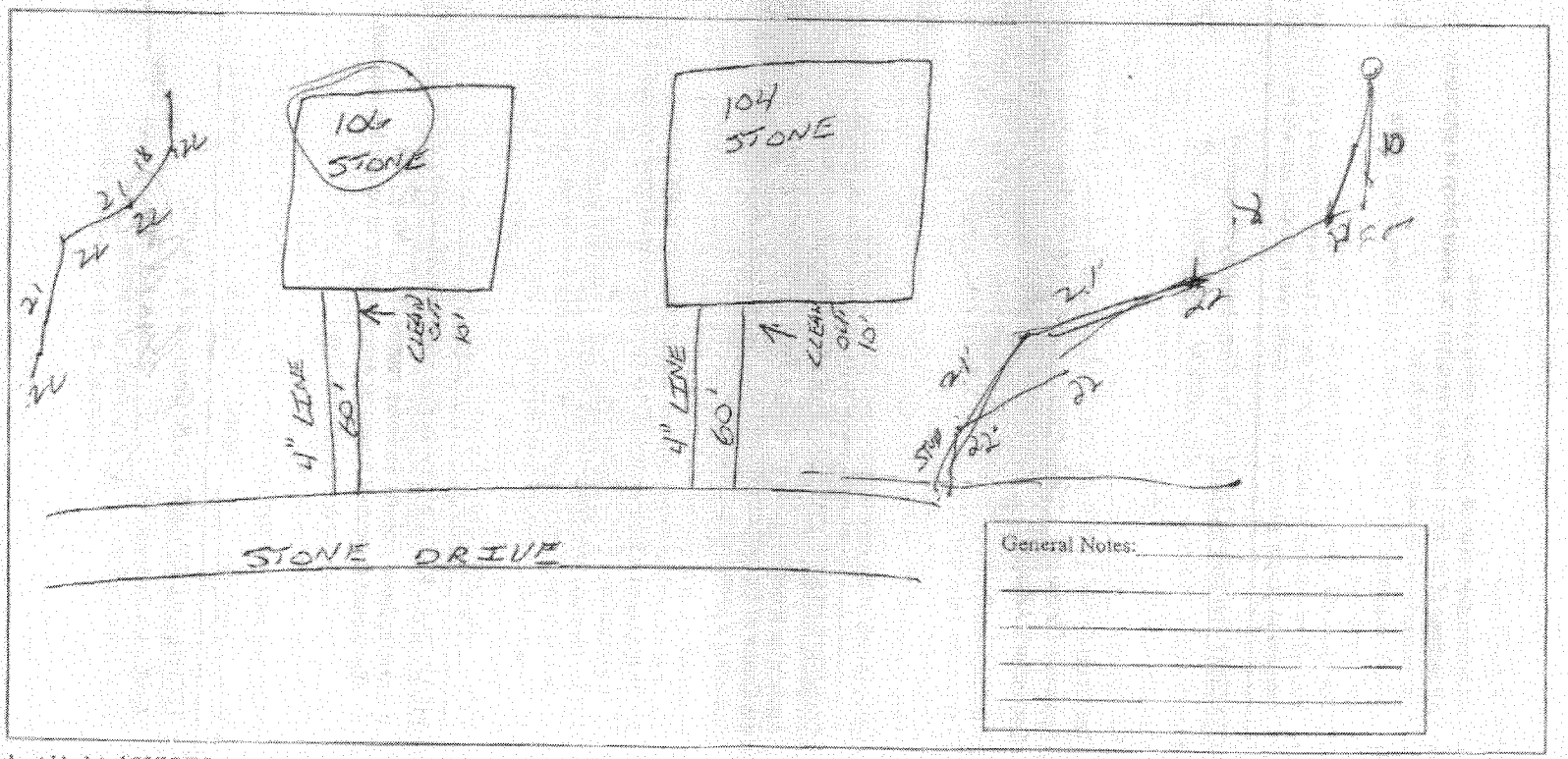
~~Town~~/Village: BLACK RIVER

House No.: 106 Owner: BOOAH Contractor: THOMAS

Street: STONE Date Installed: 11/1/2010

1. Service Pipe Installation
   a) Lateral size: 4"
   b) Pipe Material: (SDR 35) ~~other~~
   c) ~~Curb Stop~~ (no)
   d) ~~Grinder Pump~~ (no) Make: Model:

2. Connection to House Line: 105
3. Length of Service: 60' 70'
4. Diameter of Sewer Main: 8" 8"
5. Depth of Curb Stop: N/A
6. ~~Force Main~~ (Gravity)



General Notes:

Nov 16 10 08:59a User 315-773-5726 p.4

Appendix B

EASEMENT GRANT

This Easement Grant is made this ____ day of _____, 20__ between _____ residing at_____ _____ ("Grantor", whether one or more) and the _____, a municipal corporation of the State of New York, having an office at _____, New York _____ (the "Grantee").

RECITALS

1. Grantee is in the process of building or installing a:

   a) wastewater collection system, including mains, laterals, pump stations, meters and other appurtenant devices; and

   b) water supply lines, including laterals and appurtenant facilities, including pumps and meter for water (hereinafter referred to as "Facilities").

2. Grantor is the owner of certain real property within the service area of the facilities known as the _____ tax map number _____.

3. A portion of the facilities need to be installed on Grantors property in accordance with certain engineering plans drawn by _____, as shown on Schedule "A" annexed.

4. Grantee is seeking an easement to install such facility.

5. Grantor is willing to provide and easement for such facilities.

In consideration of One Dollar ($1.00) and other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, the following grants, agreements, covenants and restrictions are made:

1) **GRANT OF EASEMENTS.**

   a) Permanent Easement. Grantor hereby grants and conveys to Grantee, its successors and assigns, a twenty (20) feet wide permanent right-of-way and easement on, over, under, across and through the premises of Grantor as described below ("the Permanent Easement") for the lawful purposes of the Grantee including laying, relaying, constructing, reconstructing, maintaining, inspecting, operating, cleaning, repairing, replacing and removing sewer mains, laterals or other appurtenant facilities, including supporting apparatus, meters and structures, all other facilities appurtenant thereto and any other lawful improvements thereto (collectively "the Facilities") and making such excavations and performing all work as, in the sole discretion of Grantee, its successors or assigns, may be necessary or desirable.

   b) Temporary Easement. During and for the purpose of the construction and restoration of any Facilities and appurtenances thereto, the Grantee shall have the right to clear and use additional land ten (10) feet in width on each side of the Permanent Easement (the "Temporary Easement"). The grant of Temporary Easement shall terminate upon completion of construction of the facilities and surface restoration. Excepting and reserving

from the permanent and temporary easements any area of land upon which there is situated a part of a permanent structure or building on the date of this easement grant.

2) **DESCRIPTION.** The parties hereto agree that "as built" drawings shall be filed with the County Clerk to show the precise location of the facilities and that the "as built" drawings aforementioned shall constitute the actual location of said easements as hereinbefore set forth.

3) **INGRESS AND EGRESS.** The Grantee, its agents, contractors and their workmen shall have the right to reasonably cross and recross the remaining adjacent lands of the undersigned on foot or with motor vehicles and their equipment for all purposes set forth in this Easement Grant and incidental thereto, including but not limited to the construction, inspection, cleaning, operation, maintenance and repair of the Facilities.

4) **CONSTRUCTION AND MAINTENANCE OF FACILITIES.**

a) Upon completion of the construction of the Facilities, as well as after any subsequent repair, reconstruction, replacement or any other work in connection with the Facilities, Grantee, at its own cost and expense, shall restore the surface of the easement to, (as nearly as is reasonably practicable), their condition prior to the commencement of the work.

b) Grantee shall defend, hold harmless and indemnify Grantor of and from all damages or judgments arising from injury or death to person or property, except such damages to the property of Grantor arising from the use of the Permanent Easement by Grantor pursuant to paragraph 4, by reason of and caused by the actions of Grantee in carrying out the purposes of this Easement Grant.

c) The Grantee may during construction and thereafter from time to time, trim, cut and remove by manual, mechanical or chemical means, brush, trees, vegetation, and other physical obstructions on the easements.

5) **USE OF EASEMENT PREMISES BY GRANTOR.** The right to use the Permanent Easement for any purpose not interfering or inconsistent, in the opinion of Grantee, with this Easement Grant is expressly reserved by Grantor, provided, however, that Grantor shall neither build, erect, construct or place upon, over or under the Permanent Easement, anything of a permanent nature or character, except that Grantor may maintain and replace anything currently existing. Furthermore, the Grantor will not impound water nor do or cause to be done, directly or indirectly, any damage to, interference with, or create any potential hazard to the Facilities, and will not remove soil from the Permanent Easement so as to leave the Facilities nearer to the surface of the land than when laid, nor in any way interfere with or disturb the grade of the soil as completed by the Grantee. It is further understood and agreed that the Facilities shall at all times be and remain the property of Grantee and under its unconditional control and supervision.

6) **WARRANTY OF TITLE AND PAYMENT.** Grantor has by this Easement Grant provided the Grantee with good and marketable title to the easements. The Grantor hereby warrants ownership in fee simple of the easements, has a good right to convey and grant the foregoing easements, that the easements are free and clear of all liens and encumbrances and will forever warrant title. Furthermore, that in compliance with Section 13 of the Lien Law, the Grantor will receive the consideration for this conveyance and will hold the right to receive such consideration as a trust to be applied first for the purpose of paying the cost of the improvement and will apply the same first to the payment of the cost of the improvement before using any part of the total of the same for any other purpose.

7) **RUNNING OF BENEFITS AND BURDENS.** All provisions of this instrument, including the benefits and burdens, run with the land and are binding upon and inure to the heirs, assigns, successors, lessees, tenants and personal representatives of the parties thereto. However, the Grantee, its successors and assigns shall have the right to assign to others, in whole or in part, any or all of the Grantee's rights, privileges and interests in this Grant.

8) **TESTING AUTHORIZATION.** Grantor hereby grants Grantee the right, upon reasonable notice, before, during and after construction, to test the quality and quantity of Grantor's water supply and to photograph and inspect the exterior and interior of Grantor's structures which may in any way be affected by construction of the Facilities.

IN WITNESS WHEREOF, the Grantor has executed this Easement Grant as of the day and year first above written.

Witness:

_____ _____

_____ _____

ACKNOWLEDGEMENTS

STATE OF NEW YORK)
) ss.:
COUNTY OF JEFFERSON)

On the ___ day of _____ in the year ___ before me, the undersigned, a Notary Public in and for said state, personally appeared _____, personally known to me or proved to me on the basis of satisfactory evidence to be the individual(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their capacity(ies), and that by his/her/their signature(s) on the instrument, the individual(s), or the person(s) upon behalf of which the individual(s) acted, executed the instrument.

Notary Public

STATE OF NEW YORK)
) ss.:
COUNTY OF JEFFERSON)

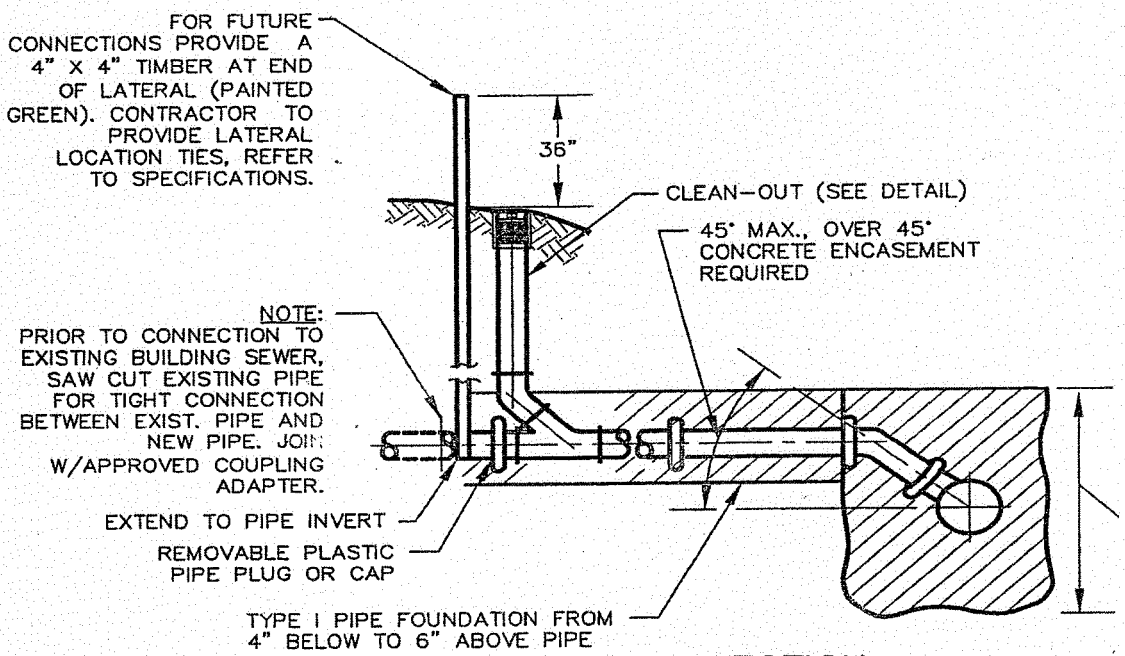
On the ___ day of _____ in the year ___ before me, the undersigned, a Notary Public in and for said state, personally appeared _____, personally known to me or proved to me on the basis of

satisfactory evidence to be the individual(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their capacity(ies), and that by his/her/their signature(s) on the instrument, the individual(s), or the person(s) upon behalf of which the individual(s) acted, executed the instrument.

Notary Public

Appendix C

Sewer Installation Details



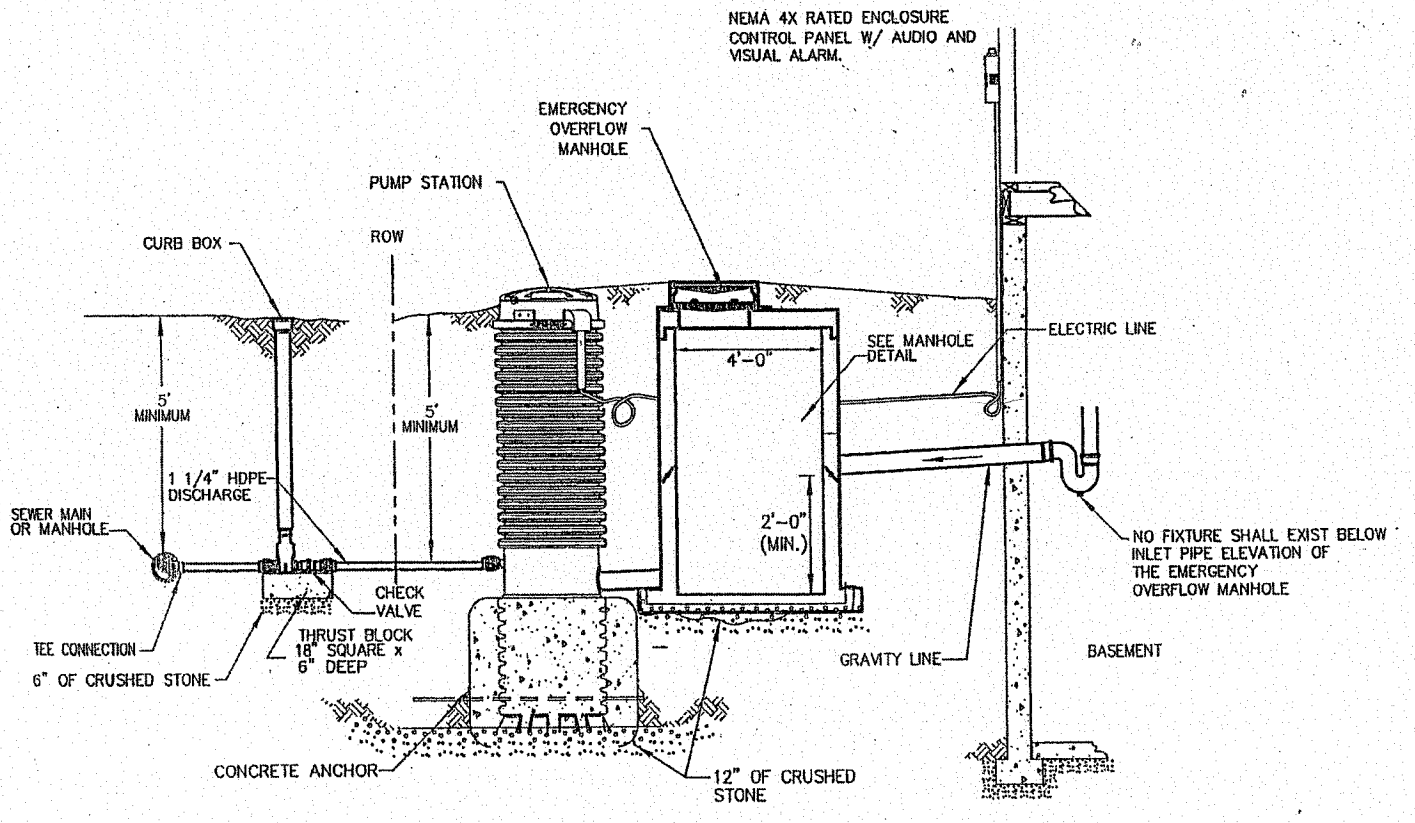
SECTION

NOTES:

1. FOR CONNECTION TO EXISTING LATERALS USE APPROVED ADAPTER COUPLINGS SECTION 02733.
2. CONSTRUCT ON STRAIGHT GRADE – 4–INCH (2%) AND 6–INCH (1%) MINIMUM.
3. VERIFY UTILITY LOCATION AND ADJUST GRADE IF NECESSARY.

LATERAL DETAIL

NOT TO SCALE

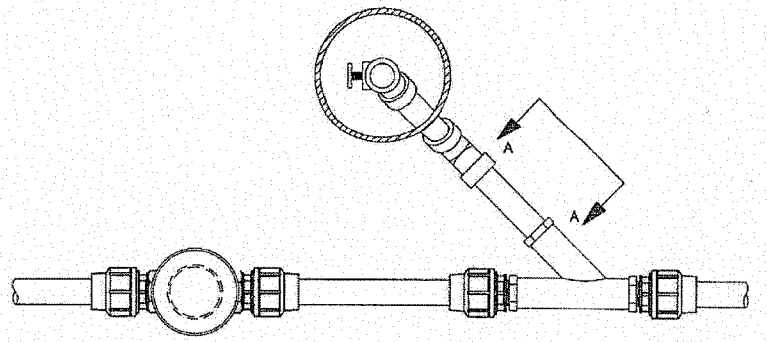


1. DEPTH OF PUMP STATION SHALL BE AS PER EXISTING CONDITIONS. CONTRACTOR SHALL BE RESPONSIBLE TO SUPPLY AND INSTALL GRINDER PUMP STATION, AND OVERFLOW TANK BASED ON EXISTING CONDITIONS, AND DEPTH OF EXISTING LATERAL.

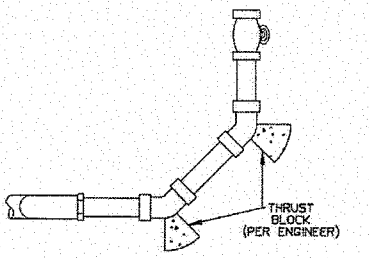
2. EMERGENCY OVERFLOW MANHOLE SHALL MEET SAME REQUIREMENTS AS SANITARY SEWER MANHOLES.

TYPICAL GRINDER PUMP LATERAL INSTALLATION (DUAL TANK)

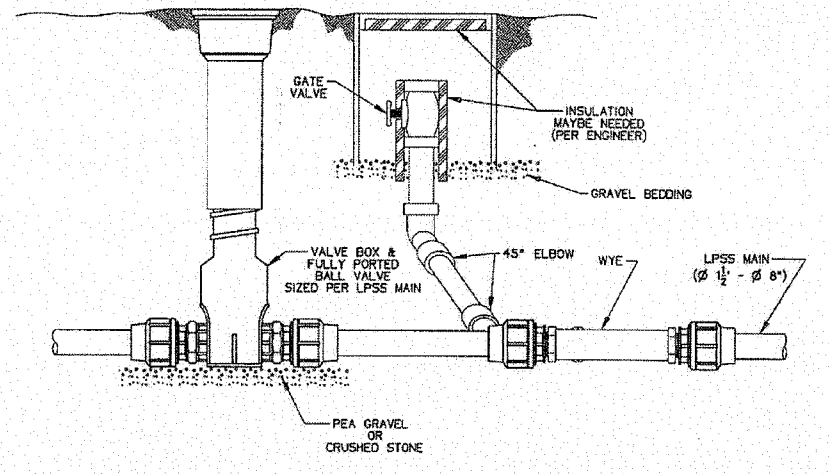
NOT TO SCALE



PLAN VIEW



VIEW "A"
3/4 = 1



TYPICAL FLUSHING CONNECTION ON LPSS MAIN

environment one
CORPORATION

LM000113 REV. A