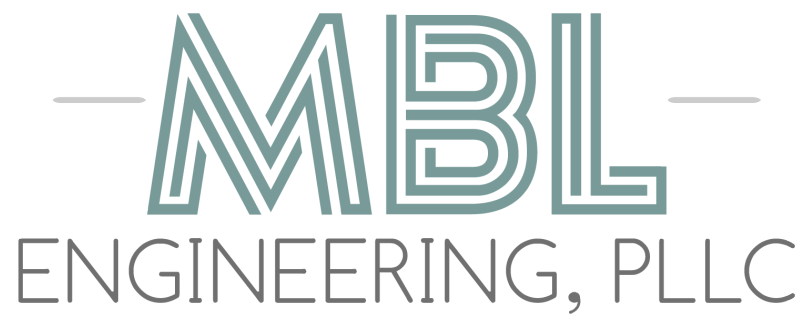


# Sewer District Map, Plan & Report

## Top Fabricators



2973 W Bridge Street  
Town of Lysander

November 28, 2023



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Michael B. Lasell, P.E., LEED AP BD+C  
MBL Engineering, PLLC

## PROJECT SUMMARY - INTRODUCTION

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The purpose of this Map, Plan and Report is to present the data and information related to the establishment of a sewer extension of the current Top Fabricators Inc. facility in the Town of Lysander. The district extension and associated wastewater collection system would provide sewer service to the existing facility located at 2973 W Bridge Street.

## PROPOSED SEWER DISTRICT BOUNDARY

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The proposed sewer district boundary includes the above parcel which totals 1.61-acres. The Sewer District is defined by the Tax ID on the attached GIS mapping, Tax ID 022.01-12.0.

## PROPOSED SEWER FACILITIES

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The project has been designed using a low-pressure sewer system. The existing facility will have a centrifugal type grinder pump capable of pumping against the total dynamic head of the entire forcemain. The forcemain is approximately 240-feet of 2" HDPE DR-11 with a 1.25" service connection. Design flows from the existing facility are anticipated to be 45-GPD which is for 2 full time employees and 3 customers per day.

Cleanouts and isolation valves will be required to be sited on the pipe layout to allow for maintenance.

The station would be owned by the individual lot, the Town of Lysander will own the forcemain installed within the ROW where it connects to the existing gravity Manhole.

## DESIGN STANDARDS

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The sanitary sewer facilities have been designed to meet the Recommended Standards for Wastewater Facilities, 2012 Edition, Policies for the Review and Approval of Plans and Specifications for Wastewater Facilities, A Report of the Wastewater Committee of the Great Lakes-Upper Mississippi River Board of State Public Health and Environmental Managers, generally referred to as the "Ten (10) States Standards for Sewage Works".

## PROBABLE COSTS

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Capital costs of the project would be absorbed by the current property owner of the existing facility. The district would be a "No Cost" district extension to the current public and be completely absorbed by the newly connected user within the district.

## ANNUAL USER COSTS

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Annual user costs are determined from three elements, cost of the capital improvement debt, operation and maintenance and cost for wastewater treatment from the Village of Phoenix.

The capital improvement for the proposed district will be paid by the end user of the district. O&M will be passed onto the new user based on current sewer rates.

## REQUIRED APPROVALS AND OTHER ACTIONS

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The following is required prior to construction of the district extension infrastructure:

- Submission of this Map, Plan & Report to the Town board followed by a public hearing.
- Final acceptance by the Town Board.
- Funding for proposed project costs from owner.
- Construction drawings and specifications for the proposed extension.
- Review and approval by New York State DEC for the sewer system extension
- Installation of system by owner

Attachments:

1. Sewer Extension Boundary Map
2. Site Connection Plan

*Attachment 1*

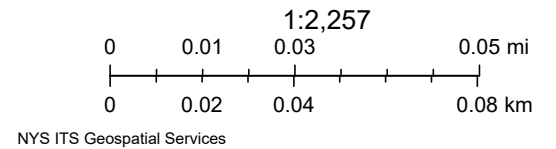
*Sewer Extension Boundary  
Map*

# Sewer District Extension Map



November 28, 2023

- |  |   |  |
|--|---|--|
|  Municipalities      |  Parcels       |  Not Field Located                |
|  Address Points     |  Manholes      |  Sewers                           |
|  Building Footprints |  Field Located |  Municipality Owned Gravity Sewer |



*Attachment 2*

*Site Connection Plan*

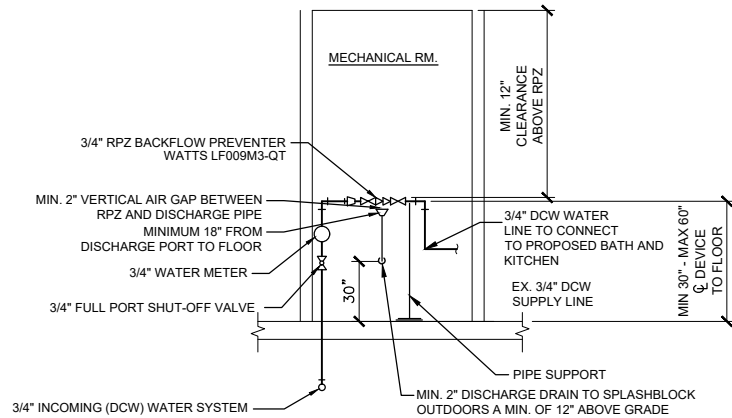


**LOCATION PLAN**

SCALE: 1"=1000'

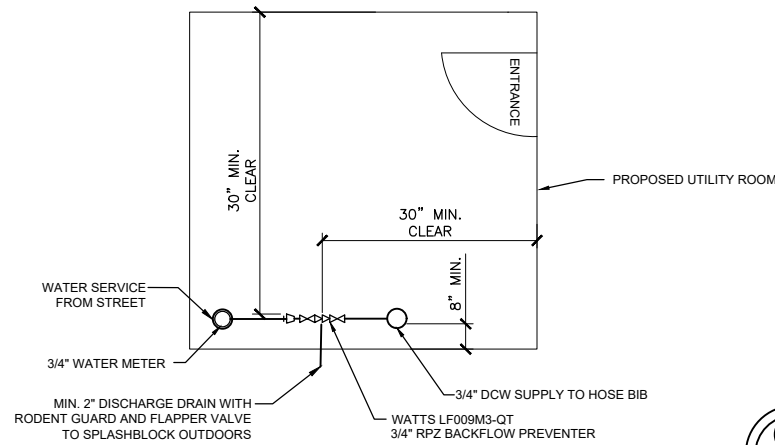
**GENERAL INSTALLATION NOTES:**

1. DIMENSIONS SHOWN ARE APPROXIMATE AND SHALL BE VERIFIED IN FIELD. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS PERTINENT TO THE WORK OF THIS CONTRACT IN THE FIELD.
2. WORK TO BE DONE IN STRICT ACCORDANCE TO THESE PLANS. CHANGES REQUIRE ENGINEER REVIEW AND APPROVAL.
3. THE CONTRACTOR SHALL COORDINATE WITH THE TOWN ENGINEER, TOWN DPW, OCWA PRIOR TO INSTALLATION FOR INSPECTION REQUIREMENTS AND NOTIFICATION PRIOR TO CONNECTION.
4. CORRECTING MATERIAL/PRODUCT DEFICIENCIES IS THE RESPONSIBILITY OF THE MANUFACTURE/SUPPLIER. WORKMANSHIP IS THE RESPONSIBILITY OF THE INSTALLER. THE UNDERSIGNED ENGINEER DOES NOT GUARANTEE OR WARRANTEE EITHER OF THE ABOVE.
5. NO GUARANTEE AS TO THE FUNCTIONALITY OR LIFE EXPECTANCY OF THE PUMP STATION IS WARRANTED OR IMPLIED BY THE ENGINEER.
6. PUMP STATION SHALL BE BY ENVIRONMENTAL ONE CORPORATION MODEL DH071-93 PROVIDING 4 GPM @ 22' TDH. THE STATION SHALL HAVE A SENTRY ALARM PANEL INCLUDED WITH THE CONTROLS.
7. VENTING OF STATION IS REQUIRED. FACTORY VENT CAN BE USED OR A REMOTE VENT CAN BE PLUMBED PER OWNER DIRECTION.
8. ELECTRICAL TO BE COMPLETED BY LICENSED ELECTRICIAN MEETING REQUIRED CODE.



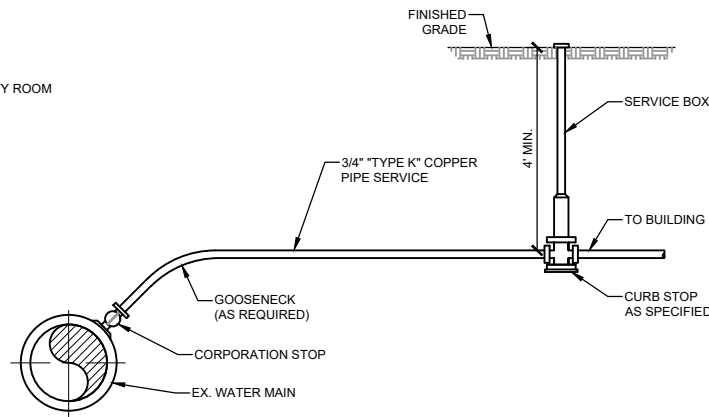
**BACKFLOW PREVENTOR ELEVATION VIEW**

NOT TO SCALE



**BACKFLOW PREVENTOR ENLARGED PLAN VIEW**

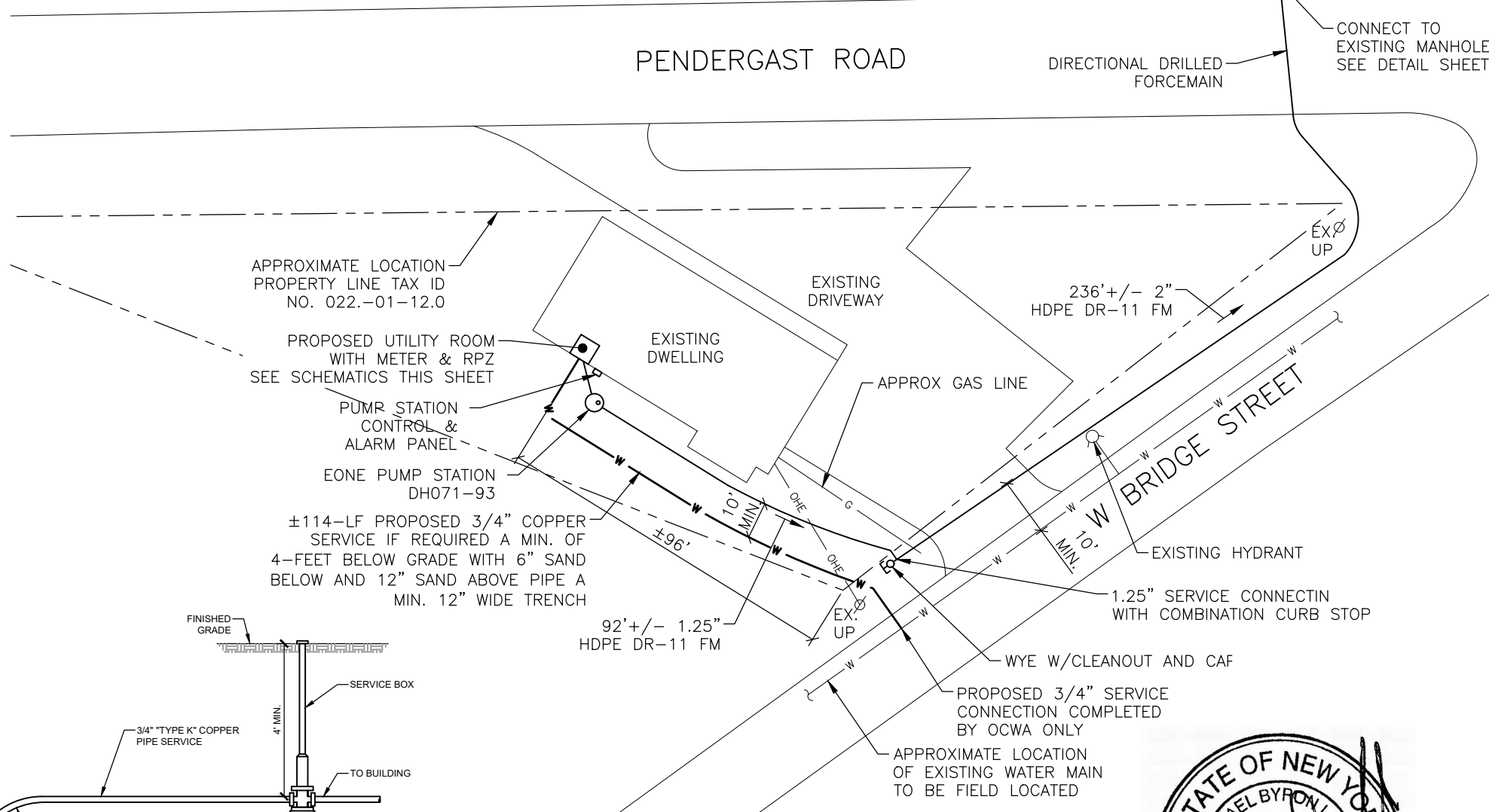
NOT TO SCALE



**TYPICAL WATER SERVICE INSTALLATION DETAIL**

NOT TO SCALE

- NOTE:**
1. SERVICE CLAMP SHALL BE PROVIDED AS REQUIRED. OCWA SHALL INSTALL SERVICE TAP.



**PLAN NOTES:**

1. CONTRACTOR SHALL COORDINATE WITH OCWA FOR WATER CONNECTION.

**PLAN**

SCALE: 1"=40'



NO.	DATE	ISSUED FOR REGULATORY REVIEW	REVISED PER OCWA COMMENTS	REVISED PER OCWA COMMENTS	REVISION
D	11/28/23				FORCEMAN
C	3/9/23				
B	2/15/23				
A	11/30/22				

**WATER & WASTEWATER CONNECTION PLAN**

**MBL ENGINEERING, PLLC**

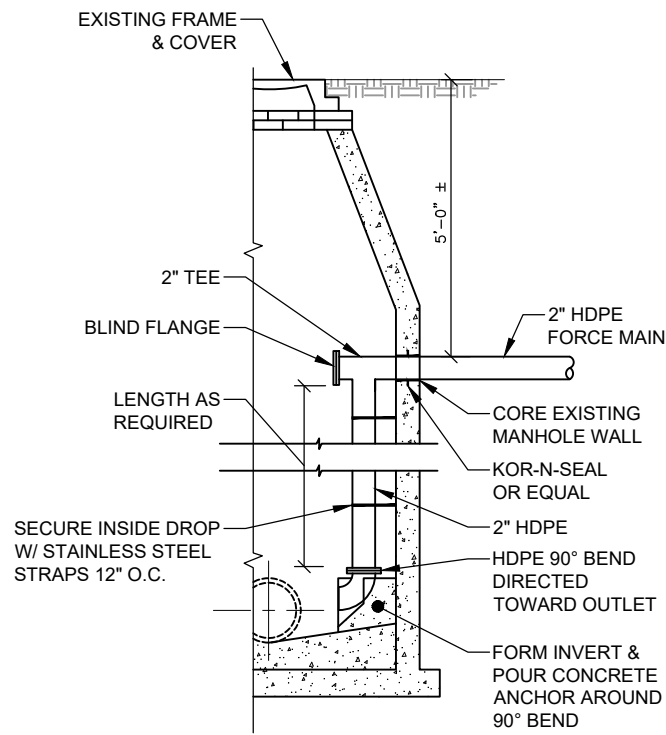
TOP FABRICATORS INC  
2973 W. BRIDGE ST  
TOWN OF LYSANDER  
ONONDAGA COUNTY

PROJECT #  
22-290

DATE:  
NOVEMBER 2022

SHEET #  
C-001

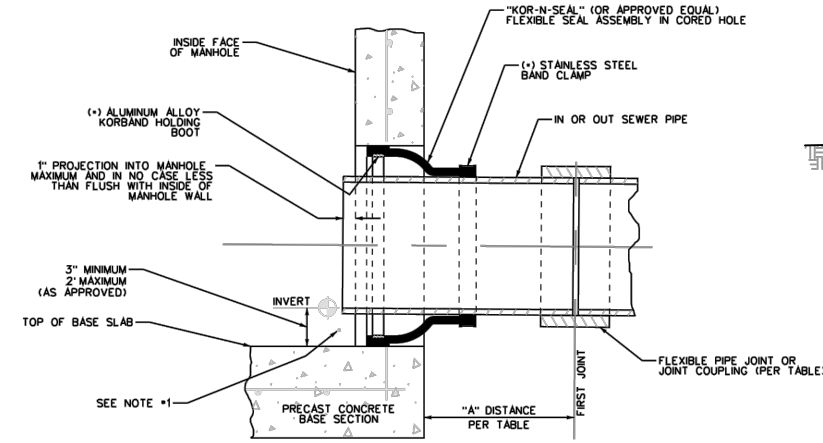




PARTIAL CROSS SECTION

**FORCEMAIN TO EXISTING SANITARY SEWER MANHOLE DETAIL**

NOT TO SCALE

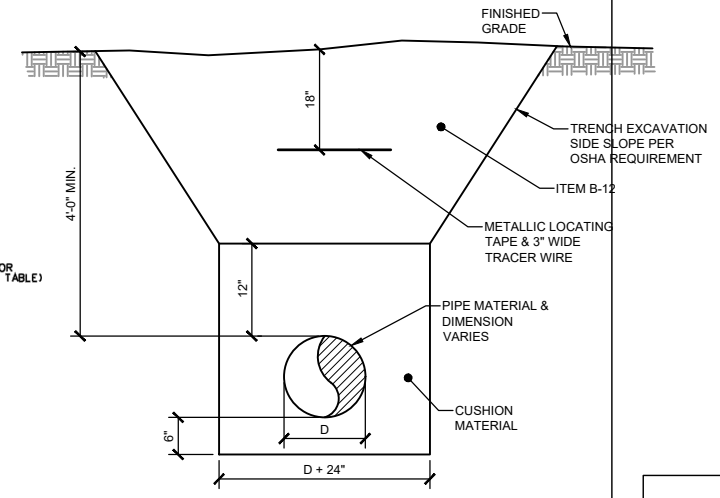


**FLEXIBLE JOINT REQUIREMENTS**

SEWER PIPE TYPE	FLEXIBLE JOINT TYPE IN & OUT	"A" DISTANCE (FEET)
VIRTIIFIED CLAY	STD. ELASTOMERIC GASKETED PIPE JOINT ONLY	3' MAX
ABS TRUSS	STD. SOLVENT WELDED PIPE JOINT ONLY	10' MAX
CAST IRON (EXTRA HEAVY) OR DUCTILE IRON	STD. ELASTOMERIC GASKETED PIPE JOINT ONLY	10' MAX
PVC TRUSS	STD. ELASTOMERIC GASKETED PIPE JOINT ONLY	3' MAX
PVC TRUSS	STD. SOLVENT WELDED PIPE JOINT ONLY	10' MAX
PVC SDR 26	STD. ELASTOMERIC GASKETED PIPE JOINT ONLY	3' MAX
PVC SDR 26	STD. SOLVENT WELDED PIPE JOINT ONLY	10' MAX
PVC SDR 35	STD. ELASTOMERIC GASKETED PIPE JOINT ONLY	3' MAX
PVC SDR 35	STD. SOLVENT WELDED PIPE JOINT ONLY	10' MAX

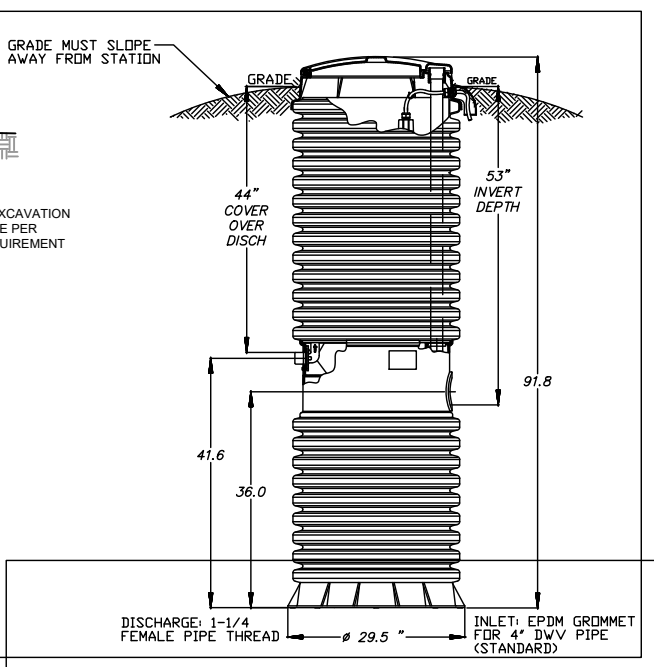
**CORED HOLE FLEXIBLE PIPE TO MANHOLE JOINT**

NOT TO SCALE



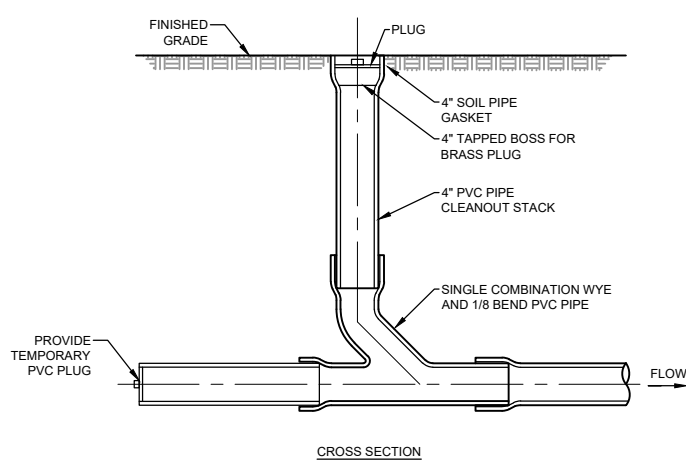
**TYPICAL TRENCH DETAIL**

NOT TO SCALE



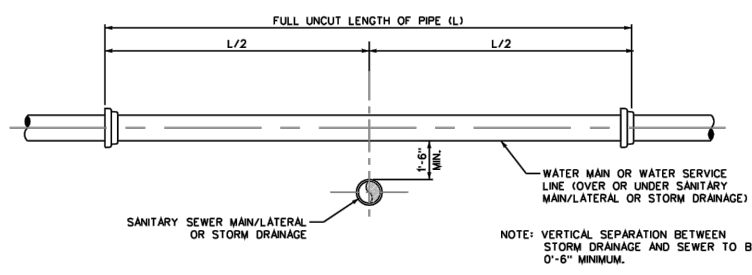
**EONE DG-071-93 PUMP STATION DETAIL**

NOT TO SCALE

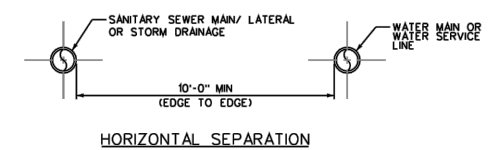


**TYPICAL SANITARY SEWER CLEANOUT DETAIL**

NOT TO SCALE



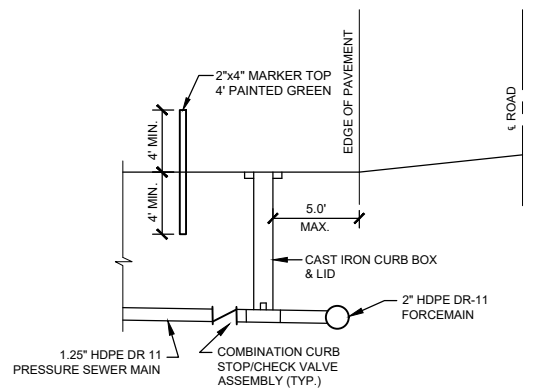
VERTICAL SEPARATION



HORIZONTAL SEPARATION

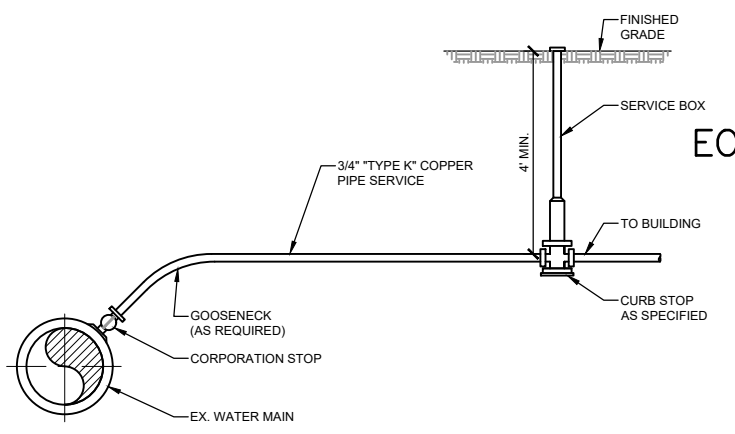
**SANITARY SEWER/WATER/STORM DRAINAGE SEPARATION REQUIREMENTS**

NOT TO SCALE



**TYPICAL SANITARY SEWER INSTALLATION DETAIL**

NOT TO SCALE



**TYPICAL WATER SERVICE INSTALLATION DETAIL**

NOT TO SCALE

NO.	DATE	ISSUED FOR REGULATORY REVIEW
		A. 11/30/22

WASTEWATER SYSTEM SECTIONS & DETAILS

MBL ENGINEERING, PLLC

TOP FABRICATORS INC  
2973 W. BRIDGE ST  
TOWN OF LYSANDER  
ONONDAGA COUNTY

PROJECT #  
22-290

DATE:  
NOVEMBER 2022

SHEET #  
C-002

