

LOCATION MAP

**TOWN OF MAYNARD
DEPARTMENT OF PUBLIC WORKS**

**DUPLEX PUMP STATION
INSTALLATION
58 SUMMER HILL ROAD**

SHEET LIST TABLE		
SHEET NO	DRAWING NO	TITLE
1	G-001	COVER SHEET
2	C-101	CIVIL PLAN AND DETAILS
3	E-101	ELECTRICAL PLAN AND DETAILS

JULY 2023

Project Number: 195110237



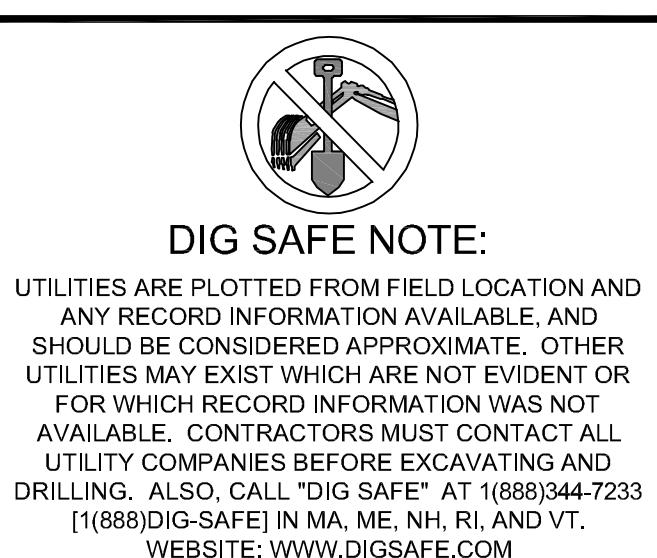
**DIRECTOR OF PUBLIC WORKS
JUSTIN DEMARCO**

The Contractor shall verify and be responsible for all dimensions. DO NOT scale the drawing - any errors or omissions shall be reported to Stantec without delay.

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Consultants

Legend



Notes

This technical diagram illustrates the installation of a pump system in a basement. The system includes an **E-ONE DH152-93 DUPLEX GRINDER PUMP STATION** located in the **BASEMENT**. A **4' FLEX DISCHARGE WITH COUPLING** is connected to the pump's discharge outlet. A **1 1/4" HDPE DISCHARGE LINE** is connected to the flexible coupling. The discharge line is labeled with the instruction: **CONNECT 1 1/4" HDPE DISCHARGE TO EXISTING MH SEE PIPE CONNECTION (BRICK MH)**. The pump station is connected to an **E-ONE LATERAL KIT**, which is installed into an **EXISTING SMH** (Sewer Manhole). A note indicates: **MODIFY SHELF WITH BRICK AND MORTAR TO DIRECT FLOW INTO MH CHANNEL. SEE BELOW**. The system also includes a **3'Ø WELL TILE MH WITH 24"Ø PLASTIC TUFF TITE EXTENSION COVER CAST INTO MH TOP**. A **4" PVC HOUSE SERVICE** and a **4" CI HOUSE SERVICE** are connected to the pump station. A **SENTRY ALARM PANEL** is mounted on a panel, with the instruction: **INSTALLED MH CHANNEL WITH BRICK AND MORTAR. SEE BELOW**. A note at the top right specifies: **SENTRY ALARM PANEL MOUNTED ON PANEL: COORDINATE LOCATION FOR SECOND VISUAL ALARM LAMP INSIDE RESIDENCE WITH PROPERTY OWNER**.

TYPICAL PUMP AND BALLAST INSTALLATION
SCALE: N.T.S.

EXISTING CHANNEL

MODIFY SHELF WITH BRICK AND MORTAR TO DIRECT FLOW INTO MH CHANNEL

CONNECT $1\frac{1}{4}$ " HDPE DISCHARGE TO EXISTING MH

PROPOSED $1\frac{1}{4}$ " GRINDER PUMP DISCHARGE

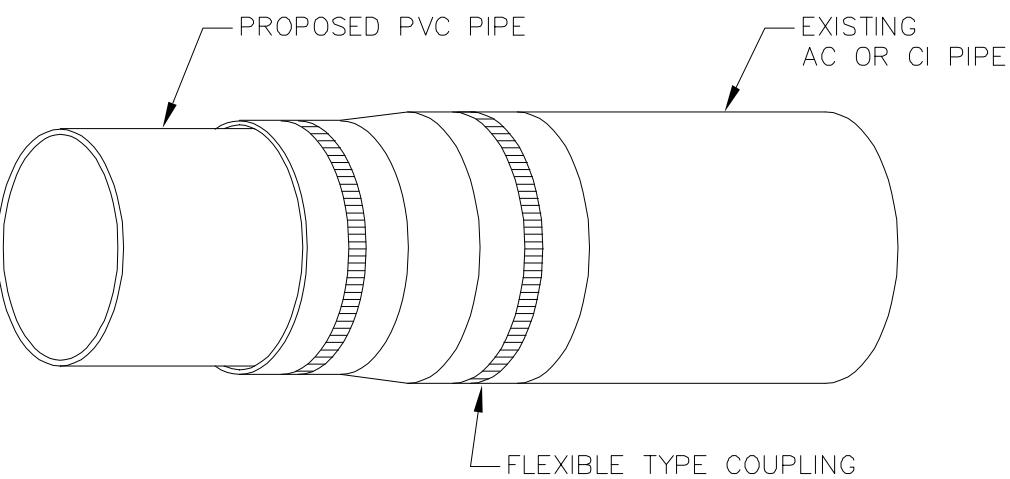
MH CONNECTION PLAN VIEW
SCALE: N.T.S.

NI

The diagram shows a circular cross-section of a manhole channel. The interior is divided into several rectangular segments by vertical and horizontal lines. A vertical dashed line is positioned in the center. Two arrows point from text labels to specific features: one arrow points to the top center with the text 'INSTALL BRICK AND MORTAR MH CHANNEL', and another arrow points to the bottom right with the text 'NEW 3'Ø MH'.

The diagram illustrates a cross-section of a trench for a proposed pipe (D). The trench is bounded by 'TRENCH LIMITS' at a depth of $D+3$ ft. (4 ft. min.). The top of the trench is at 'EXISTING GRADE'. The bottom of the trench contains a 'CRUSHED GRAVEL BLANKET' with a thickness of 6" min. A 'PROPOSED PIPE (D)' is shown within this blanket. Above the trench, a 'GRAVEL SUBBASE' layer is shown with a thickness of 12" min. The top of the gravel subbase is at 'EXISTING GRADE'. The diagram also shows 'SAWCUT PAVING' and 'PAVEMENT RESTORATION SEE SPEC.' layers. 'PAY LIMITS' are indicated as 'PERMANENT PAVEMENT WIDTH=D+5' (6' min.). 'PAVEMENT RESTORATION' is shown in the unpaved area. A 'MAGNETIC STRIP TAPE' is used to mark the 'TRENCH LIMITS'. A note specifies 'NO ROCK SHALL PROJECT INSIDE OF TRENCH LIMITS'. Other notes include 'COMMON FILL MATERIAL FREE OF WOOD, FOREIGN MATERIALS OR STONES EXCEEDING 6" \varnothing COMPACT BY MECHANICAL MEANS' and 'MIN. 6" DEPTH LOAM AND SEED'.

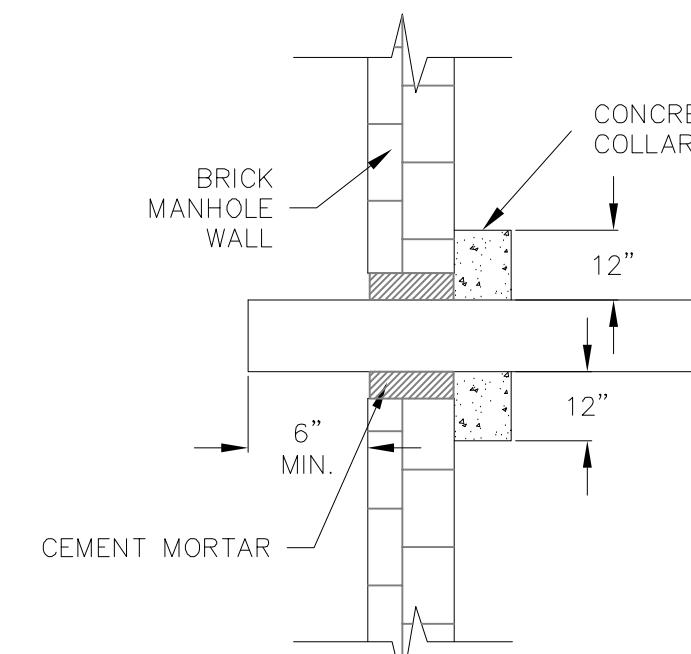
TYPICAL TRENCH DETAIL



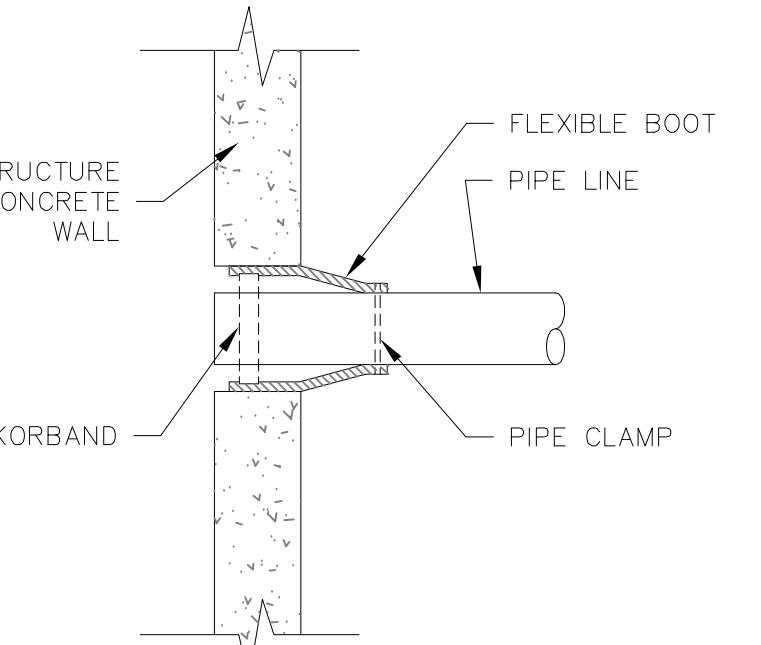
USE MAXADAPTOR TYPE ADAPTORS, FERNCO
STRONG BACK RC 1000 SERIES COUPLINGS,
OR APPROVED EQUAL

FLEXIBLE COUPLING FOR JOINING DISSIMILAR PIPE MATERIALS

SCALE: N.T.S.

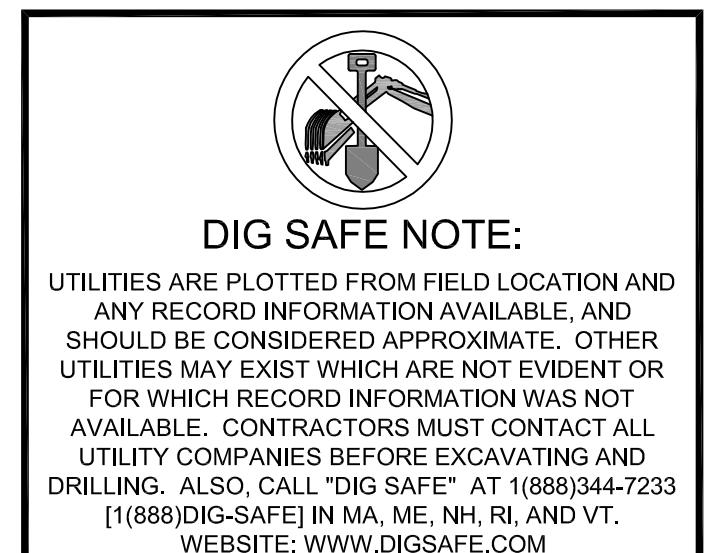


PIPE CONNECTION (BRICK MH)



FLEXIBLE BOOT CONNECTION (CONCRETE MH)

Revision	By	Appd.	YY.MM.DD
A REVISE TO 2-PUMP UNIT	MPB	VAO	22.10.20
Issued	By	Appd.	YY.MM.DD
File Name:	MPB	NRB	MPB
	Dwn.	Chkd.	Dsgn.
			22.08.03
YY.MM.DD			
Permit-Seal			
 <i>7/19/2023</i>			
Client/Project			
SEWER SERVICE REPLACEMENT 58 SUMMER HILL ROAD			
MAYNARD, MASSACHUSETTS			
Title			
PLAN AND DETAILS			
Project No.	Scale		
195110237	AS NOTED		
Drawing No.	Sheet	Revision	



Revision	By	Appd.	YY.MM.DD
1 BID DOCUMENTS	CSM	VAO	23.07.12

Issued By Appd. YY.MM.DD

File Name: CSM DMG CSM 22.08.03

Dwn. Chkd. Dsgn. YY.MM.DD

Permit-Seal



Client/Project
SEWER SERVICE REPLACEMENT
58 SUMMER HILL ROAD

MAYNARD, MASSACHUSETTS

Title
ELECTRICAL PLAN AND DETAILS

Project No. 195110237 Scale AS NOTED
Drawing No. Sheet Revision

