



Select Board Meeting – Amended 10/12/2023

Monday, October 16, 2023

7:00 PM

School Committee Room, School Administration Building
30 Whittier Court, Andover, MA 01810

RECEIVED
TOWN CLERK'S OFFICE
2023 OCT 12 PM 4:55

~~TOWN OF ANDOVER, MASS~~

I. Call to Order – 7:00 P.M.

II. Opening Ceremonies

A. Moment of Silence/Pledge of Allegiance

III. Communications/Announcements/Liaison Reports

IV. Citizens Petitions and Presentations

V. Public Hearings

A. Eversource Gas of Massachusetts – Installation of Gas Telemetry Cabinets

Board to review and consider voting to approve an application by Eversource Gas of Massachusetts to install 6 telemetry cabinets and associated service lines in Andover for the purpose of remote pressure monitoring per the DPU Safety Enhancement Assessment at the following locations:

- 78 River Street
- 109 Gould Road
- 464 River Road
- Bellevue Road and Barron Court
- Upland Road and Summer Street
- Elm Street and Farnsworth Road

B. National Grid – Park Street

Board to review and consider voting to approve an application by National Grid for permission to construct a line of underground electrical conduits, including the necessary sustaining and protecting fixtures, under and across the public way of Park Street.

C. Verizon Cable Ascertainment Hearing

Board to provide the public an opportunity to comment on the community's cable-related needs as part of the cable television license renewal process for Verizon New England, Inc. due to expire on June 25, 2024.

VI. Regular Business

A. Amendment to Traffic Rules and Regulations

Board to discuss and consider voting on the following changes to the Traffic Rules and Regulations as proposed by the Andover Safety Officer.

1. Schedule 1, Article V, Section 2 - Parking

Elm Street south 115' east of Main Street to a distance of 250'
 Currently 30-minute parking, 8:00 a.m. to 6:00 p.m. except Sundays and legal holidays.

Change to 15-minute parking, 8:00 a.m. to 9:00 p.m. except Sundays and legal holidays.

2. Schedule 3, Article VII, Section 9 - Isolated Stop Signs
 Location Abbot Street and Phillips Street

Change to all-way stop.

B. 2024 Annual Town Meeting and Town Election Calendar

Board to discuss and consider voting to approve the 2024 Annual Town Meeting and Town Election Calendar.

C. Quad Board & Andover High School Building Project

Board to discuss September 27th Quad Board meeting and consider voting to submit warrant article(s) for an anticipated Special Town Meeting.

D. Special Town Meeting

Board to consider calling a Special Town Meeting, as petitioned for by Kathleen Grant and others, for Monday, November 20th at 7:00pm, opening the warrant, inserting articles, and closing the warrant.

VII. Consent Agenda

A. Appointments by the Town Manager

Board to vote that the following appointments by the Town Manager be approved.

Department	Name	Position	Rate/Term	Date of Hire
Finance – Assessor	Tristan Hoare <i>(David Billard)</i>	Chief Assessor	\$118,000/yr	10/17/2023
Finance – Assessor	Lisa Van Campen <i>(Jane Melia)</i>	Office Assistant	\$62,019.82/yr	10/17/2023
Department of Public Works	Steven Ballard <i>(Mark Wood)</i>	Emergency Vehicle Technician	\$36.57/hr	10/17/2023
Department of Public Works	Kevin Ring <i>(Leonard Foote)</i>	Cemetery Laborer	\$26.96/hr	10/17/2023
Department of Public Works	Christopher Sharkey <i>(Christopher George)</i>	Equipment Operator	\$27.95/hr	10/17/2023
Community Services – Elder Services	Makayla Cafua	Culinary Co-Op Student	\$17.00/hr	10/17/2023
Andover High School Building Committee	Patrick Lawlor	Town Manager's Alternate	Term Expires 06/30/2025	10/17/2023

VIII. Approval of Minutes

- A. Board to approve minutes from the following meetings:
July 11, 2023
August 15, 2023

IX. Executive Session

- A. Board to vote to go into Executive Session pursuant to Purpose 2 of Massachusetts General Laws, Chapter 30, Section 21(a), to conduct contract negotiations with nonunion personnel, i.e., the Town Manager, and vote to approve and not release the Executive Session meeting minutes for July 27, 2023, September 18, 2023 and September 27, 2023; and for the Chair to declare that an open session may have a detrimental effect on the negotiating position of the Town, and not to return to open session.

X. Adjourn

If any member of the public wishing to attend this meeting seeks special accommodations in accordance with the Americans with Disabilities Act, please contact Amy Heidebrecht in the Town Manager's Office at 978-623-8213 or by email at amy.heidebrecht@andoverma.us

MEETINGS ARE TELEVISED ON
COMCAST CHANNEL 22 AND VERIZON CHANNEL 45



TOWN OF ANDOVER

Town Clerk's Office

36 Bartlet Street
Andover, MA 01810
978-623-8230
townclerk@andoverma.gov

NOTICE

You are hereby notified that a Public Hearing will be held by the Andover Select Board on October, 16, 2023 in the School Committee Conference Room, 30 Whittier Court, at 7 PM.

This hearing is on the petition of Eversource Gas of Massachusetts requesting permission to excavate for the purpose of extending its gas lines, according to blueprints hereto annexed and made a part of this petition, and to make the necessary connections as follows:

#23GMSYSACT - This project is to install 6 telemetry cabinets and associated service lines in Andover for the purpose of remote pressure monitoring per the DPU Safety Enhancement Assessment. These locations are:

**78 River Street
109 Gould Road
464 River Road**

**Bellevue @ Barron
Elm @ Farnsworth
Upland @ Summer**

Plan(s) of the proposed work can be found in the Meeting Packet on the Select Board's page on the Town of Andover website, www.andoverma.gov.

Representatives from the utility company will present their petition during the meeting and will also be available before the meeting at 6:45 P.M. on the above date to answer questions you may have relating to the proposed work.

By order of the
Select Board

Austin Simko
Assistant Town Manager/Town Clerk

Plan No.: #23GMSYSACT
Date: October 4, 2023



RECEIVED
TOWN CLERK'S OFFICE

2023 SEP 29 PM 12: 23 2023 SEP 29 PM 12: 23

TOWN OF ANDOVER, MASS

Date: 9/29/2023

Selectboard Members
Andover, Massachusetts

Selectboard:

Eversource Gas of Massachusetts respectfully asks permission to excavate for the purpose of extending its gas lines, according to blueprints hereto annexed and made a part of this petition, and to make the necessary connections as follows:

This project is to install 6 telemetry cabinets and associated service lines in Andover for the purpose of remote pressure monitoring per the DPU Safety Enhancement Assessment. These locations are:

- 78 River Street
- 109 Gould Road
- 464 River Road
- Bellevue @ Barron
- Elm @ Farnsworth
- Upland and Summer

Project ID: 23GMSYSACT

Please see attached plans detailing the location of the proposed gas main.

Eversource Gas of Massachusetts agrees to provide and maintain proper warnings and traffic management. Excavation and refilling will be done promptly, and to the satisfaction of the Highway Department. The restoration of sidewalk and/street surfaces will be done to the satisfaction of the Highway Department. Eversource Gas of Massachusetts will guarantee refilling and resurfacing for one year from completion of the work.

Eversource Gas of Massachusetts agrees to hold the Town of Andover harmless from claims of any nature by persons alleging to have been injured, in their persons or in their property, as a result of the excavation. Eversource Gas of Massachusetts agrees to defend against all such claims, whether groundless or not.

Louie DeRoxas
Project Engineer
Eversource Gas of Massachusetts

Permission is hereby granted Eversource Gas of Massachusetts to excavate and to install and maintain gas service pipe as requested above.

_____ Approved by Selectboard - Date: _____

_____ Issued by Director of Public Works - Date: _____



**Town of Andover
BOARD OF SELECTMEN**

License and Permit Application Public Hearing Questionnaire

Please be willing and able to address these questions before the Board of Selectmen during your hearing.

Construction, Excavation & Installation Projects

Name	Louie DeRoxas		
Address	55 Marston St, Lawrence		
Title	Senior Project Engineer		
Company	Eversource Gas of Massachusetts		
Overview of this project, its purpose, and a brief scope of work.	This project is to install gas telemetry cabinets and associated service lines at 6 locations in Andover for the purpose of remote pressure monitoring per the DPU Safety Enhancement Assessment. All locations on Town Right of Way.		
What time of day will this work take place?	Daylight hours		
Have you notified abutters that may be impacted by this project?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Have you provided a contact number for the project manager?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Will the project create traffic detours or prohibit access to roadways or driveways?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Will the project involve work on private property or town right of way that is adjacent to or near private property?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Please provide any additional information that may be useful to the Board.	Project Manager: Louie DeRoxas Email: louie.deroxas@eversource.com Cell: 978-701-3625 55 Marston Street, Lawrence, MA 01841		

TOWN OF ANDOVER, MASSACHUSETTS



ANDOVER TOWN CLERK
RCUD 2023 AUG 25 AM 10:00

PRIVATE UTILITY PETITION CHECKLIST

TO BE FILLED OUT BY PETITIONER

COMPANY: Eversource Gas of Massachusetts	#23GMSYSACT
PROJECT MANAGER NAME: Louie DeRoxas	
PROJECT MANAGER CONTACT NUMBER: 978-701-3625	
DESCRIPTION OF PROPOSED WORK: Installation of gas telemeter cabinets at various locations to remotely monitor pressures in various Andover gas systems. Part of the DPU's Gas Safety Enhancement Plan.	
LIST OF IMPACTED ADDRESSES HAS BEEN ATTACHED (<input checked="" type="radio"/> YES / NO):	
SITE PLAN SHOWING PROPOSED WORK HAS BEEN ATTACHED (<input checked="" type="radio"/> YES / NO):	
PLAN AND DETAILS PREPARED BY P.E. REGISTERED IN MA (<input checked="" type="radio"/> YES / NO):	
PETITIONER IS REQUIRED TO ATTACH PICTURES SHOWING AREA OF PROPOSAL	
PICTURES HAVE BEEN ATTACHED (<input checked="" type="radio"/> YES / NO):	

TO BE FILLED OUT BY TOWN OF ANDOVER STAFF

<u>DPW</u> SUPPORT PROJECT (<input checked="" type="radio"/> YES / NO) SIGNATURE: <u>[Signature]</u> TITLE: <u>Town Engineer</u> COMMENTS:
<u>POLICE DEPARTMENT</u> SUPPORT PROJECT (YES / NO) SIGNATURE: _____ TITLE: _____ COMMENTS:
<u>FIRE DEPARTMENT</u> SUPPORT PROJECT (YES / NO) SIGNATURE: _____ TITLE: _____ COMMENTS:

TOWN OF ANDOVER, MASSACHUSETTS



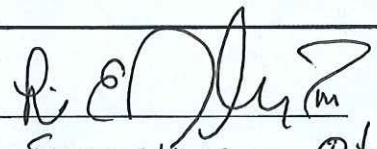
ANDOVER TOWN CLERK
RCUD 2023 AUG 25 AM 10:11

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PICTURES HAVE BEEN ATTACHED (<input checked="" type="radio"/> YES / NO):	

TO BE FILLED OUT BY TOWN OF ANDOVER STAFF

<u>DPW</u>	
SUPPORT PROJECT (YES / NO)	SIGNATURE: _____
COMMENTS:	TITLE: _____
<u>POLICE DEPARTMENT</u>	
SUPPORT PROJECT (<input checked="" type="radio"/> YES / NO)	SIGNATURE: 
COMMENTS:	TITLE: <u>Executive Officer</u>
<u>FIRE DEPARTMENT</u>	
SUPPORT PROJECT (YES / NO)	SIGNATURE: _____
COMMENTS:	TITLE: _____

TOWN OF ANDOVER, MASSACHUSETTS



ANDOVER TOWN CLERK
RCUD 2023 AUG 25 AM 10

PRIVATE UTILITY PETITION CHECKLIST

TO BE FILLED OUT BY PETITIONER

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PLAN AND DETAILS PREPARED BY P.E. REGISTERED IN MA (<input checked="" type="radio"/> YES / NO):	
PETITIONER IS REQUIRED TO ATTACH PICTURES SHOWING AREA OF PROPOSAL.	
PICTURES HAVE BEEN ATTACHED (<input checked="" type="radio"/> YES / NO):	

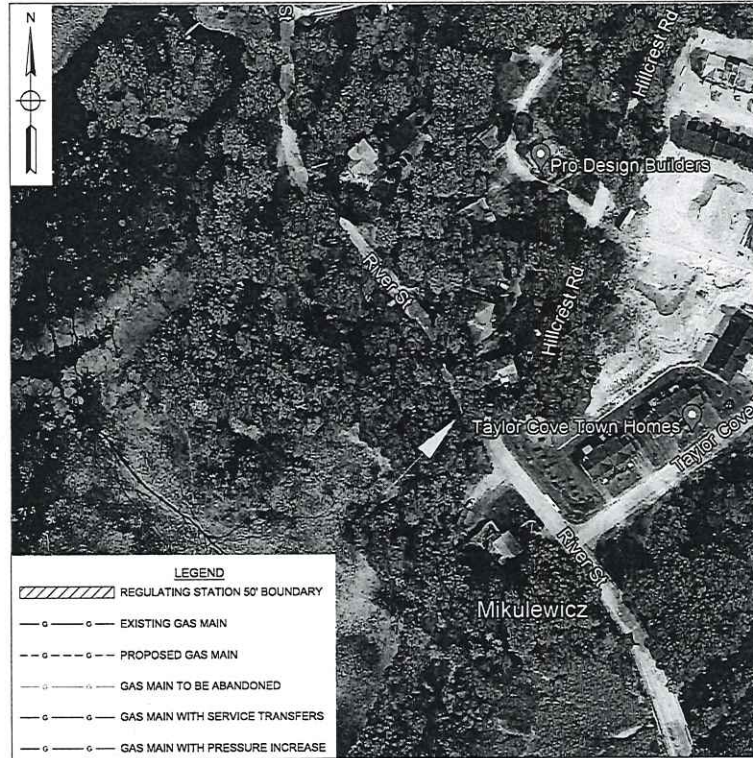
TO BE FILLED OUT BY TOWN OF ANDOVER STAFF

<u>DPW</u>	
SUPPORT PROJECT (YES / NO)	SIGNATURE: _____
COMMENTS:	TITLE: _____
<u>POLICE DEPARTMENT</u>	
SUPPORT PROJECT (YES / NO)	SIGNATURE: _____
COMMENTS:	TITLE: _____
<u>FIRE DEPARTMENT</u>	
SUPPORT PROJECT (<input checked="" type="radio"/> YES / NO)	SIGNATURE: <u>MB Mansfield</u>
COMMENTS:	TITLE: <u>Fire Chief</u>

TABLE OF CONTENTS

SHEET #	TITLE
1 OF 6	COVER SHEET
2 OF 6	NOTES & DETAILS
3 OF 6	LEGEND
4 OF 6	PROJECT LOCATION PLAN
5 OF 6	STANDARD TELEMETRY SERVICE DETAIL UP TO 98 PSIG MAOP
6 OF 6	STANDARD NATIONAL GRID ELECTRICAL SERVICE

EVERSOURCE ENERGY



LEGEND

	REGULATING STATION 50' BOUNDARY
	EXISTING GAS MAIN
	PROPOSED GAS MAIN
	GAS MAIN TO BE ABANDONED
	GAS MAIN WITH SERVICE TRANSFERS
	GAS MAIN WITH PRESSURE INCREASE

WORK SCOPE

PASTE EXCEL FOOTAGE TABLE HERE

78 RIVER ST, ANDOVER, MA
PROJECT #23GMSYSACT

CONSTRUCTION

CHI ENGINEERING An **MIVIS** Company

FIELD VERIFY DIMENSIONS PRIOR TO PIPE FABRICATION

No.	Description	Date	Dw/Ck
A	CONSTRUCTION		

Revision/Status

EVERSOURCE ENERGY

78 RIVER ST, ANDOVER, MA
PROJECT # 23GMSYSACT
COVER SHEET

SCALE: NONE	SHEET 01 OF 06	
Drawn by / Date	Checked by / Date	Drawing Number
CHI, 5/30/2023	XXX / XXX/XXXX	MA-LAW-TLM-23-553-01
		Rev. No. A

FILE: \\EVERSOURCE\US\B2\GMSYSACT\PROJECTS\Monitoring\Design\06172023\01 COVER SHEET.dwg

H:\EVERSOURCE\EVER2023\03 Pressure Monitoring Design\Andover\78 River St\8 RIVER STREET Drawing.dwg

DRAWING LEGEND

Gas Main Symbology	
REGULATING STATION 50' BOUNDARY	
EXISTING GAS MAIN	
PROPOSED GAS MAIN	
GAS MAIN TO BE ABANDONED	
GAS MAIN WITH SERVICE TRANSFERS	
GAS MAIN WITH PRESSURE INCREASE	
RIGHT-OF-WAY	
ELECTRIC	
WATER LINE	
SEWER LINE	
TELEPHONE	
DRAIN LINE	
FENCE LINE	
CONDUIT	
OVERHEAD WIRE	
DIGITIZED GAS LINE (SEE NOTE 7)	
DIGITIZED SEWER LINE (SEE NOTE 7)	
DIGITIZED WATER LINE (SEE NOTE 7)	
MAJOR CONTOUR LINE	
MINOR CONTOUR LINE	
STONEWALL	
REMNANT STONE WALL	
RETAINING WALL	
CONCRETE	
PILE	
TREE LINE	
SHRUB LINE	

Gas Main Material/Pressure Label References

MATERIAL CODES	
CS*	Coated Steel Gas Main
CI*	Cast Iron Gas Main
BS*	Bare Steel Gas Main
WI*	Wrought Iron Gas Main
PH*	High Density Polyethylene Gas Main
PM*	Medium Density Polyethylene Gas Main
PHESURE CODES	
*LP	Low Pressure (<0.5 PSIG or 14" W.C.)
*IP	Intermediate Pressure (>2 PSIG ≤ 10 PSIG)
*MP	Medium Pressure (>10 PSIG ≤ 60 PSIG)
*HP	High Pressure (>60 PSIG)

MISCELLANEOUS CODES

*-SER	Service
*-R	Riser
(TC)	Transmission Class
BND. FND.	Bound Found
D.H.	Drill Hole
DYL	Double Yellow Line
EP	Edge of Pavement
GRAN.	Granite
SBB	Sloped Bituminous Berm
SWL	Single White Line
T.O.D	Top of Debris
T.O.H	Top of Hood
VGC	Vertical Granite Curb

Gas Main Installation Method Label References

AT	Attached
BH	Bridge Hanger
BLGH	Building Hanger
DB	Directional Bore
IS	Inserted
OC	Open Cut
PB	Pneumatic Bore
PL	Plowed
RT	Roof Top
(E)	Existing
(P)	Proposed

Gas Facility Symbology

xx*GV	Gas Valve
xx*PV	Critical Gas Valve
	(Gate - GV, Plug - PV, PE Ball - BP, ST Ball - BV)
Ox*HVTT	High Volume Tapping Tee
Ox*SST	Pressure Control Fitting - ShortStopp Tee
Ox*SPH	Pressure Control Fitting - Spherical Tee
Ox*MF-BO	Pressure Control Fitting - Mueller Bottom-out
Ox*MF-SO	Pressure Control Fitting - Mueller Side-out
Ox*MF-FT	Pressure Control Fitting - Mueller Flange Tee
ix*SS	Pressure Control Fitting - ShortStopp
ix*MF	Pressure Control Fitting - Mueller Stopper
xx*x*	POLYTAPP Polytapp Side Saddle Fitting
	Transition
-	End Cap
+	Riser
-+	Reducer
EM	Electronic Marker
FM	Flush-mounted Tracer Wire Station
PM	Post Pipeline Marker with Tracer Wire
GM	Gas Main Marker without Tracer Wire
TW	Test Well
RS	Regulator Station
SC	Single Customer Regulator
M	Meter
MR	Meter with Regulator
TP	Test Point (Station)
GS	Gas Service Tie-over
GR	Gas Service Replacement
MMO	Meter Move Out
Swing Tie Symbology	
TM	Telephone Manhole
DM	Drain Manhole
EM	Electric Manhole
CB	Catch Basin
SM	Sewer Manhole
FH	Fire Hydrant
UP	Utility Pole
PM	Property Marker
TP	Telephone Pedestal
TE	Television Pedestal
UM	Unknown Manhole
WB	Water Box
WG	Water Gate
EP	Electric Pedestal
IP	Iron Pin
LP	Light Pole
■	INSIDE METER
●	OUTSIDE METER

NOTES:

- HORIZONTAL DATUM BASED ON NAD83(2011) MASSACHUSETTS STATE PLANE MAINLAND COORDINATE ZONE (2001) DERIVED FROM REDUNDANT GPS OBSERVATIONS UTILIZING THE KEYNET GPS VRS NETWORK.
- VERTICAL DATUM IS BASED ON APPROXIMATE NAVD88(GEOD12A) (-2) DERIVED FROM REDUNDANT GPS OBSERVATIONS UTILIZING THE KEYNET GPS VRS NETWORK.
- THIS MAP WAS PREPARED FROM LIMITED RECORD RESEARCH, OTHER MAPS, LIMITED FIELD MEASUREMENTS AND OTHER SOURCES. IT IS NOT TO BE CONSTRUED AS A PROPERTY / BOUNDARY, RIGHT-OF-WAY SURVEY AND IS SUBJECT TO SUCH FACTS AS SAID SURVEYS MAY DISCLOSE.
- PROPER FIELD PROCEDURES WERE FOLLOWED IN ORDER TO GENERATE CONTOURS AT 1' INTERVALS. ANY MODIFICATION OF THIS INTERVAL WILL DIMINISH THE INTEGRITY OF THE DATA, AND DOUCET SURVEY, WILL NOT BE RESPONSIBLE FOR ANY SUCH ALTERATION PERFORMED BY THE USER.
- APPROXIMATE RIGHT-OF-WAY AND ABUTTER LINES, AS SHOWN HEREON, ARE BASED UPON A COMBINATION OF LIMITED MONUMENTATION LOCATION, LISTED REFERENCE PLANS AND GIS DATA FROM THE 'BUREAU OF GEOGRAPHIC INFORMATION (MassGIS), COMMONWEALTH OF MASSACHUSETTS, EXECUTIVE OFFICE OF TECHNOLOGY AND SECURITY SERVICES'. NO VERIFICATION OR FURTHER RESEARCH HAS BEEN DONE TO DETERMINE THE RIGHT-OF-WAY.
- UNDERGROUND UTILITIES SHOWN HEREON ARE BASED ON OBSERVED PHYSICAL EVIDENCE AND PAINT MARKS FOUND ON-SITE.
- ALL UNDERGROUND UTILITIES (ELECTRIC, GAS, TEL, WATER, SEWER DRAIN SERVICES) ARE SHOWN IN SCHEMATIC FASHION. THEIR LOCATIONS ARE NOT PRECISE OR NECESSARILY ACCURATE. NO WORK WHATSOEVER SHALL BE UNDERTAKEN USING THIS PLAN TO LOCATE THE ABOVE SERVICES. CONSULT WITH THE PROPER AUTHORITIES CONCERNED WITH THE SUBJECT SERVICE LOCATIONS FOR INFORMATION REGARDING SUCH. CALL DIG-SAFE AT 1-888-DIG-SAFE.
- ABUTTERS NAMES, ADDRESSES AND REFERENCE DEEDS ARE BASED ON ONLINE TOWN ASSESSOR RECORDS.

CONSTRUCTION



CHI ENGINEERING An **IVIS** Company

FIELD VERIFY DIMENSIONS PRIOR TO PIPE FABRICATION

A CONSTRUCTION			
No.	Description	Date	Dw/Ck
Revision/Status			
78 RIVER ST, ANDOVER, MA			
PROJECT # 23GMSYSACT			
LEGEND			
SCALE: NONE		SHEET 03 OF 06	
Drawn by / Date	Checked by / Date	Drawing Number	Rev. No.
CHI, 5/30/2023	XXX XXXXX/XXXX	MA-LAW-TLM-23-553-03	A

BILL OF MATERIAL

ITEM NO.	DESCRIPTION	PART NO.	QUANTITY
1	PIPE, 1/2 IN CTS X 0.090 IN THK WALL SDR 7, 5/8 IN OD, 500 FT LG COIL, POLYETHYLENE, PE3408/PE100	554022	15'
2	VALVE,BALL, FULL PORT, 1/2 IN CTS, SDR 7.0, PE 4710, BUTT FUSE, POLYETHYLENE, BLACK FINISH, REPLACED IN 581834	601132	1
3	CURB VALVE BOX 334 18X24 IN SHAFT LENGTH W NON-LOCKING COVER MAKED "GAS" WALL THICKNESS .125+- .015, FOR USE WITH 1/2+1-1/4" PERFECTION PSV PLASTIC BALL VALVE	557812	1
4	RISER ANODELESS 1/2 X 3/4 PERFECTION 77571 .090W PE 3408 CTS X NPT W/ 12 PIGTAIL	610786	1
5	VALVE, 3/4 IN, SS, THREADED, BALON, LS07592	580957	1
6	ELBOW, MALE 90 SWAGelok, 3/4 NPT X 3/8 TUBE SWAGelok SS-600-2-12 (NON-STOCK EVERSOURCE ITEM)	N/A	1
7	TUBING, 3/8 IN OD, 10 FT LG, 0.035 IN THK WALL, 316/316L SS, CAMBRIDGE VALVE & FITTING - SS-T6-S-035-20 - 20'	500931	6FT.
8	BULKHEAD UNION, 3/8" SWAGelok SS-600-81 (NON-STOCK EVERSOURCE ITEM)	N/A	1
9	ELBOW, MALE 90 SWAGelok, 1/2 NPT X 3/8 TUBE SWAGelok SS-600-2-8 (NON-STOCK EVERSOURCE ITEM)	N/A	1
10	POST, 4 IN X 6 FT, YELLOW, POWDER COATED, 125 LBS, CONCRETE, FOR METER PROTECTION	593751	4
11	TAPE,WARNING, MARKED BURIED GAS LINE, 400 M, (1312 FT.) ROLL, 6 IN., 6 MIL, POLYETHYLENE, YELLOW, LOCATABLE - RFID TAG EVERY 8 FT.	603277	15'
12	PLATE, RECTANGULAR, PROTECTION, 41 IN X 71 IN, HDPE, YELLOW, ANTI-SLIP BEVELED EDGE DRAIN HOLES, FOR OVERPIPE, CMA 44028102	610792	2
13	BOLLARD COVER, YELLOW, 4.5" X 52" LONG, HDPE, POST GUARD OR EQUAL (NON-STOCK EVERSOURCE ITEM)	N/A	4

DETAIL A: TAPS FOR CAST IRON MAINS

ITEM NO.	DESCRIPTION	PART NO.	QUANTITY
14	FITTING,TEE, THREADED BRASS BASE SERVICE, 1-1/4 IN NPT X 1 CTS X 0.090 IN WALL, POLYETHYLENE BODY, PE-4710	560810	
14.1	FITTING,REDUCER, COUPLING, LYCOFIT, 1 IN CTS X .099 IN X 1/2 IN CTS X .090 IN THK WALL, HDPE, CMA 21658092	610785	

DETAIL A1: SERVI-SEAL CLAMP

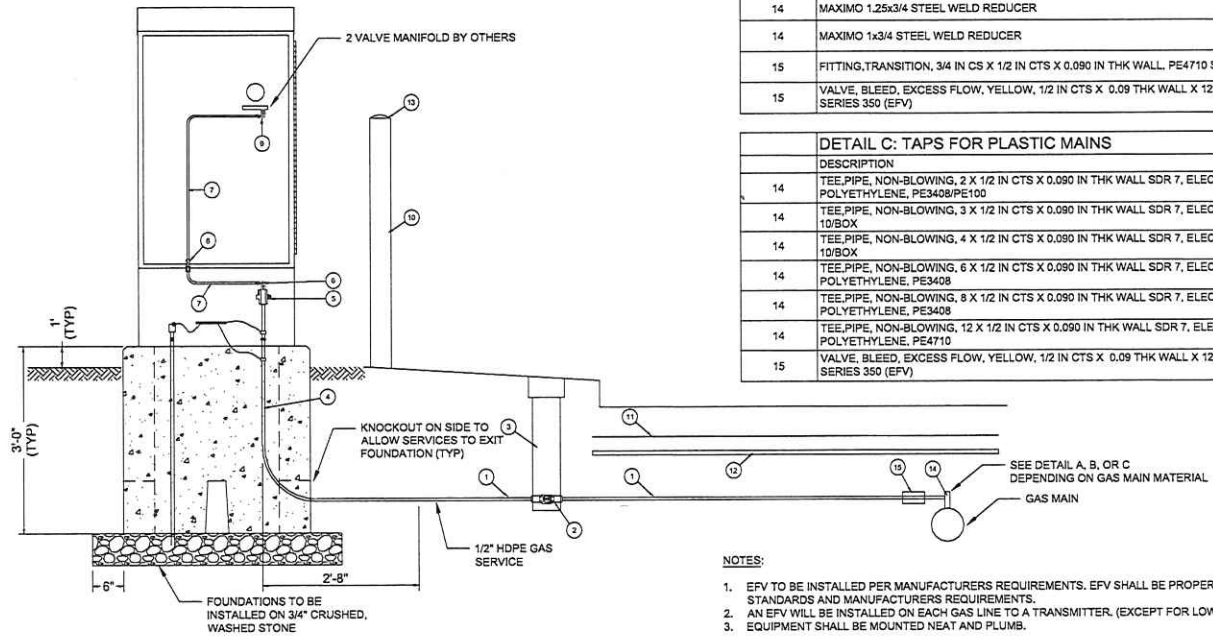
ITEM NO.	DESCRIPTION	PART NO.	QUANTITY
14	CLAMP,PIPE, SERVI-SEAL REPAIR, 3 IN LG, 9 IN LG, W/ 1-1/4 IN ID OUTLET, FOR CAST IRON PIPE, FITTING, ID 11633	578017	
14	CLAMP,PIPE, REPAIR, 4 IN CIP, SS, W/1-1/4 NPT TAP, FOR 4.74 - 5.14 IN PIPE	542984	
14	CLAMP,PIPE, REPAIR, 6 IN CIP, SS, W/1-1/4 NPT TAP, FOR 6.84 - 7.24 IN PIPE	542982	
14	CLAMP,PIPE, REPAIR, 8 IN IPS, SS, W/2 IN TAP, ALTERNATE IN 578014 (REQUIRES 2" X 1-1/4" REDUCING BUSHING)	578014	
14	CLAMP,PIPE, FULL CIRCLE REPAIR,DOUBLE BAND, W/ 2 IN NPT OUTLET, 12.75 TO 13.26 IN OD, 304 SS, 10 IN LONG, STEEL NUTS & BOLTS, BUNA-N GASKET (REQUIRES 2" X 1-1/4" REDUCING BUSHING)	578016	

DETAIL B: TAPS FOR STEEL MAINS

ITEM NO.	DESCRIPTION	PART NO.	QUANTITY
14 / 15	3/4"x1/2" UMAC 40056 SELF TAP WELD TEE IPS x CTS & 5/8" OD COMPRESSION ADAPTER OUTLET WITH SER400 EFV	N/A	
	OR		
14	TEE,PIPE, NON-BLOWING, 1-1/4 IN TEE OUTLET X 1-1/4 IN MAIN, WELDED, 250 PSIG, W/ CI CAP, CMA 44788004	610059	
14	TEE,PIPE, NON-BLOWING, 1 IN, WELDED ENDS, LIGHT WALL, FORGED STEEL BODY, W/ CI CAP	560712	
14	MAXIMO 1.25x3/4 STEEL WELD REDUCER	577887	
14	MAXIMO 1x3/4 STEEL WELD REDUCER	586175	
15	FITTING,TRANSITION, 3/4 IN CS X 1/2 IN CTS X 0.090 IN THK WALL, PE4710 SDR 7, STEEL WELD X PLASTIC BUTT END	546257	
15	VALVE, BLEED, EXCESS FLOW, YELLOW, 1/2 IN CTS X 0.09 THK WALL X 12 IN LG, MODEL #P41, PLASTIC, PE4710, UMAC SERIES 350 (EFV)	592085	

DETAIL C: TAPS FOR PLASTIC MAINS

ITEM NO.	DESCRIPTION	PART NO.	QUANTITY
14	TEE,PIPE, NON-BLOWING, 2 X 1/2 IN CTS X 0.090 IN THK WALL SDR 7, ELECTROFUSION X COMPRESSION ENDS, LIGHT WALL, POLYETHYLENE, PE3408/PE100	500866	
14	TEE,PIPE, NON-BLOWING, 3 X 1/2 IN CTS X 0.090 IN THK WALL SDR 7, ELECTROFUSION X COMPRESSION ENDS, HDPE, PE3408, 10/BOX	578017	
14	TEE,PIPE, NON-BLOWING, 4 X 1/2 IN CTS X 0.090 IN THK WALL SDR 7, ELECTROFUSION X COMPRESSION ENDS, HDPE, PE3408, 10/BOX	500867	
14	TEE,PIPE, NON-BLOWING, 6 X 1/2 IN CTS X 0.090 IN THK WALL SDR 7, ELECTROFUSION X COMPRESSION ENDS, POLYETHYLENE, PE3408	500869	1
14	TEE,PIPE, NON-BLOWING, 8 X 1/2 IN CTS X 0.090 IN THK WALL SDR 7, ELECTROFUSION X COMPRESSION ENDS, POLYETHYLENE, PE3408	578014	
14	TEE,PIPE, NON-BLOWING, 12 X 1/2 IN CTS X 0.090 IN THK WALL SDR 7, ELECTROFUSION X COMPRESSION ENDS, LIGHT WALL, POLYETHYLENE, PE4710	560847	
15	VALVE, BLEED, EXCESS FLOW, YELLOW, 1/2 IN CTS X 0.09 THK WALL X 12 IN LG, MODEL #P41, PLASTIC, PE4710, UMAC SERIES 350 (EFV)	592085	

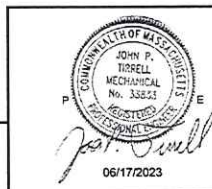


NOTES:

- EFV TO BE INSTALLED PER MANUFACTURERS REQUIREMENTS. EFV SHALL BE PROPERLY SIZED FOR APPLICATION PER EVERSOURCE STANDARDS AND MANUFACTURERS REQUIREMENTS.
- AN EFV WILL BE INSTALLED ON EACH GAS LINE TO A TRANSMITTER. (EXCEPT FOR LOW PRESSURE SERVICES)
- EQUIPMENT SHALL BE MOUNTED NEAT AND PLUMBS.

A CONSTRUCTION			
No.	Description	Date	Dw/Ck
Revision/Status			

CONSTRUCTION



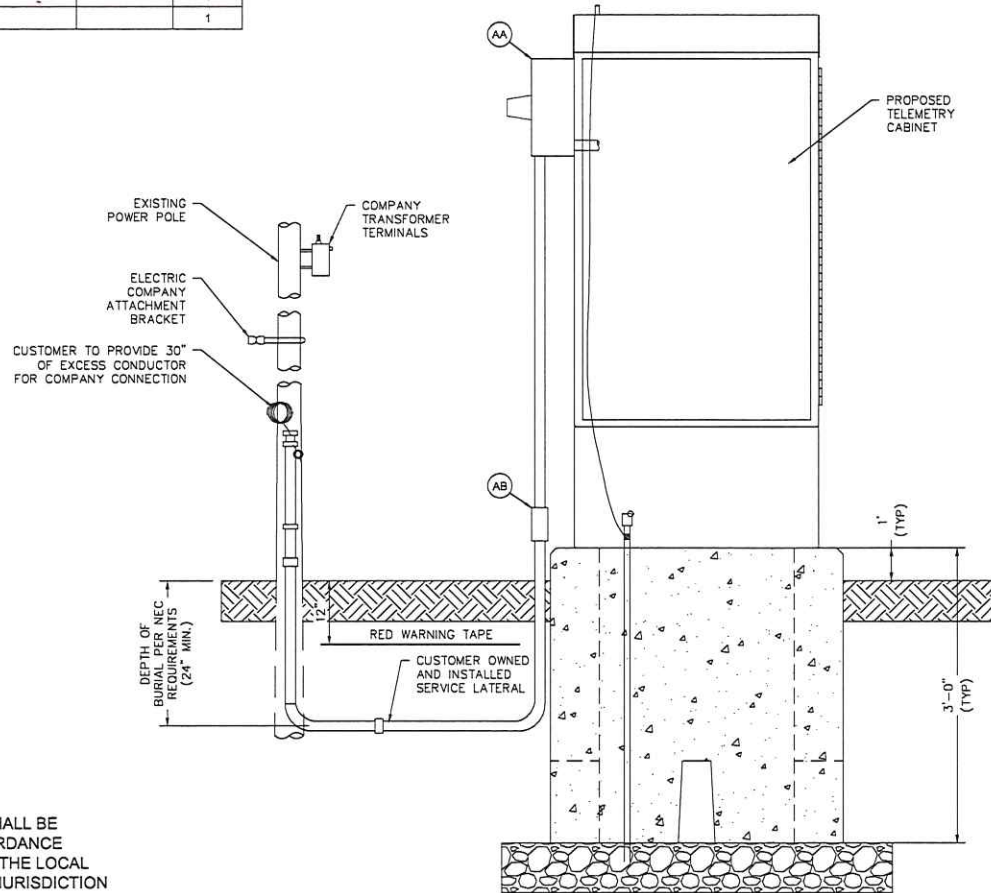
06/17/2023

CHI ENGINEERING An NIVIS Company

FIELD VERIFY DIMENSIONS PRIOR TO PIPE FABRICATION

78 RIVER ST, ANDOVER, MA			
PROJECT # 23GMSYSACT			
STANDARD TELEMETRY SERVICE DETAIL UP TO 98 PSIG MAOP			
SCALE: NTS ON 22"X34"			
Drawn by / Date	Checked by / Date	Drawing Number	Rev. No.
CHI, 5/30/2023	XXX XX/XX/XXXX	MA-LAW-TLM-23-553-05	A

ITEM NO.	DESCRIPTION	PART NO.	QUANTITY
AA	ELECTRIC METER SOCKET PER ELECTRIC UTILITY REQUIREMENTS		1
AB	EXPANSION FITTING PER ELECTRIC UTILITY		1



NOTES:

- SERVICE CONNECTION TO CABINET SHALL BE INSTALLED BY CONTRACTOR IN ACCORDANCE WITH NFPA 70, THE REQUIREMENT OF THE LOCAL UTILITY AND THE AUTHORITY HAVING JURISDICTION (AHJ).
- EQUIPMENT SHALL BE MOUNTED NEAT AND PLUMB.

A CONSTRUCTION			
No.	Description	Date	Dw/Ck

CONSTRUCTION



06/17/2023

CHI ENGINEERING An **WV15** Company

FIELD VERIFY DIMENSIONS PRIOR TO PIPE FABRICATION

78 RIVER ST., ANDOVER, MA			
PROJECT # 23GMSYSACT			
STANDARD NATIONAL GRID ELECTRICAL SERVICE			
SCALE: NTS ON 22"x34"		SHEET 06 OF 06	
Drawn by / Date	Checked by / Date	Drawing Number	Rev. No.
CHI, 5/30/2023	XXX XXX/XXXX	MA-LAW-TLM-23-553-06	A

TABLE OF CONTENTS

SHEET #	TITLE
1 OF 6	COVER SHEET
2 OF 6	NOTES & DETAILS
3 OF 6	LEGEND
4 OF 6	PROJECT LOCATION PLAN
5 OF 6	STANDARD TELEMETRY SERVICE DETAIL UP TO 98 PSIG MAOP
6 OF 6	STANDARD NATIONAL GRID ELECTRICAL SERVICE

EVERSOURCE ENERGY



WORK SCOPE

PASTE EXCEL FOOTAGE TABLE HERE

109 GOULD RD, ANDOVER, MA
PROJECT #23GMSYSACT

CONSTRUCTION



07/12/2023

CHI ENGINEERING An **INVIS** Company

FIELD VERIFY DIMENSIONS PRIOR TO PIPE FABRICATION

No.	Description	Date	Dw/Ck
A	CONSTRUCTION		

Revision/Status

EVERSOURCE ENERGY

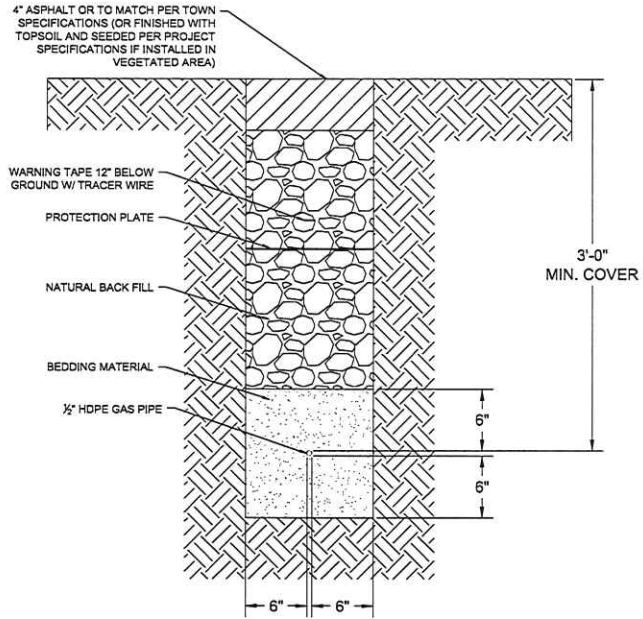
109 GOULD RD, ANDOVER, MA
PROJECT # 23GMSYSACT
COVER SHEET

SCALE: NONE SHEET 01 OF 06

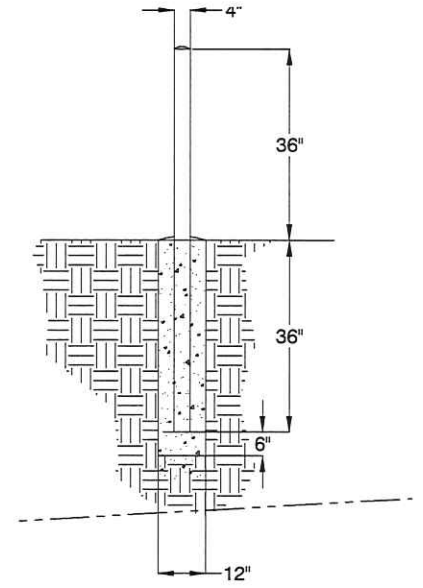
Drawn by / Date	Checked by / Date	Drawing Number	Rev. No.
CHI, 5/30/2023	XXX / XXX/XXXXXX	MA-LAW-TLM-23-552-01	A

GENERAL NOTES:

- A. IF ANY OF THE FOLLOWING OCCUR A DRAWING REVISION IS REQUIRED AND MUST BE APPROVED AND/OR STAMPED BY THE ENGINEER OF RECORD. CHANGES CAN BE APPROVED AND/OR STAMPED BY A PROJECT ENGINEER, BUT THE ENGINEER OF RECORD MUST BE INFORMED.
 - 1. IF THE TIE IN POINT MOVES TO A DIFFERENT SEGMENT OF PIPE THAN SHOWN.
 - 2. IF A CHANGE IN THE LOCATION OF VALVES IS REQUIRED.
 - 3. IF THERE IS ANY CHANGE TO WHAT IS SHOWN ON THE DRAWING WITHIN 50 FT OF A PRESSURE REGULATING STATION, DISTRICT REGULATOR, OR GATE STATION.
 - 4. IF A CHANGE IN PIPE SIZE, MATERIAL, OR WALL THICKNESS IS REQUIRED.
 - 5. ALTERNATE FITTINGS THAT ARE ACCEPTABLE FOR ANY TIE-IN DETAIL WILL BE CALLED OUT IN THE DRAWING. FITTING CHANGES NOT SHOWN AS ALTERNATIVES ON THE DRAWING WILL NEED TO FOLLOW THE DRAWING CHANGE PROCESS.
- B. CONSTRUCTION DRAWINGS, LOCATIONS OF EXISTING UTILITIES, UNDERGROUND STRUCTURES AND WORK LOCATIONS ARE BASED ON BEST AVAILABLE INFORMATION BUT HAVE NOT BEEN FIELD VERIFIED.
- C. ALL WORK, MATERIAL AND CONSTRUCTION SHALL BE PERFORMED AND COMPLETED IN COMPLIANCE WITH ALL PERMITS AND APPROVALS PER EVERSOURCE, LOCAL, STATE, OSHA AND FEDERAL REGULATIONS AND STANDARDS.
- D. ALL LIVE GAS WORK EXCEPT SERVICE SIZE TAPS, INCLUDING BUT NOT LIMITED TO TAPPING OF FITTINGS ON LIVE MAINS, STOPPING, MANIPULATING VALVE, ABANDONMENT, SHALL BE PERFORMED BY, OR AT THE DIRECTION AND UNDER THE DIRECT SUPERVISION OF EVERSOURCE GAS PERSONNEL AND IN ACCORDANCE WITH THE WRITTEN PROCEDURE. DRAWING CHANGES MAY ALSO REQUIRE A CHANGE TO THE PROCEDURE.
- E. EXCAVATOR IS REQUIRED TO PROTECT EXISTING UTILITIES, STRUCTURES, LANDSCAPES FEATURES, SIGNAGE, CURBS, ETC. CARE SHOULD BE TAKEN NOT TO DISTURB OR DAMAGE SUCH ITEMS. ROADWAY, SIDEWALKS, AND GRASS DISTURBED SHALL BE RESTORED TO THE SATISFACTION OF THE CITY OR TOWN. PLANT BEDS WILL BE RELOCATED TO THEIR EXISTING REGULAR LOCATION.
- F. ALL TRAFFIC CONTROL SHALL CONFORM TO THE LATEST EDITION OF THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), INCLUDING ALL REVISIONS AND ADDENDA. ALL TRAFFIC CONTROL DEVICES WILL BE SUPPLIED BY EXCAVATOR.
- G. EXISTING CONDITIONS SHOWN ARE BASED ON A SURVEY BY CHI ENGINEERING. EXISTING UTILITIES WERE COMPILED FROM EXISTING CONDITIONS IN THE FIELD AS WELL AS RECORD DRAWINGS OBTAINED FROM LOCAL UTILITIES.
- H. LOCATION OF UNDERGROUND UTILITIES IS APPROXIMATE AND IS NOT WARRANTED TO BE CORRECT.
- I. CONTRACTOR MUST NOTIFY DIG SAFE (811) AT LEAST 72 HOURS PRIOR TO THE START OF CONSTRUCTION.
- J. NEW PIPING SHALL BE PRESSURE TESTED AT 1.5 TIMES MAOP FOR A MINIMUM OF 1 HOUR. 150 PSIG IS THE MINIMUM TEST PRESSURE.
- K. ALL FIELD COATING SHALL BE PERFORMED PER EVERSOURCE SPECIFICATIONS.



TYPICAL GAS TRENCH
 NOT TO SCALE
 (PROPOSED UTILITIES SHALL MAINTAIN MINIMUM 12" SEPARATION FROM EXISTING UTILITIES)



BOLLARD DETAIL
 NOT TO SCALE
 DOME TOP WITH CONCRETE
 STANDARD STEEL PIPE FILLED WITH CONCRETE
 PAINT EXPOSED SURFACES YELLOW
 CONCRETE SLOPED AWAY FROM PIPE AT BASE

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CONSTRUCTION



CHI ENGINEERING An NIVIS Company

FIELD VERIFY DIMENSIONS PRIOR TO PIPE FABRICATION

No.	Description	Date	Dw/Ck
A	CONSTRUCTION		
Revision/Status			
109 GOULD RD, ANDOVER, MA PROJECT # 23GMSYSACT			
NOTES & DETAILS			
SCALE: NONE		SHEET 02 OF 06	
Drawn by / Date	Checked by / Date	Drawing Number	Rev. No.
CHI, 5/30/2023	XXX XXX/XXXX	MA-LAW-TLM-23-552-02	A

H:\EVSOURCE\EVER2023\3.00 Pressure Monitoring Design\A000001109 Gould Rd.dwg

DRAWING LEGEND

Gas Main Symbology	
REGULATING STATION 50' BOUNDARY	
EXISTING GAS MAIN	
PROPOSED GAS MAIN	
GAS MAIN TO BE ABANDONED	
GAS MAIN WITH SERVICE TRANSFERS	
GAS MAIN WITH PRESSURE INCREASE	
RIGHT-OF-WAY	
ELECTRIC	
WATER LINE	
SEWER LINE	
TELEPHONE	
DRAIN LINE	
FENCE LINE	
CONDUIT	
OVERHEAD WIRE	
DIGITIZED GAS LINE (SEE NOTE 7)	
DIGITIZED SEWER LINE (SEE NOTE 7)	
DIGITIZED WATER LINE (SEE NOTE 7)	
MAJOR CONTOUR LINE	
MINOR CONTOUR LINE	
STONEWALL	
REMNANT STONE WALL	
RETAINING WALL	
CONCRETE	
PILE	
TREE LINE	
SHRUB LINE	

Gas Main Material/Pressure Label References

MATERIAL CODES	
CS	Coated Steel Gas Main
CI*	Cast Iron Gas Main
BS*	Bare Steel Gas Main
WI*	Wrought Iron Gas Main
PH*	High Density Polyethylene Gas Main
PM*	Medium Density Polyethylene Gas Main
PRESSURE CODES	
*LP	Low Pressure (<0.5 PSIG or 14" W.C.)
*IP	Intermediate Pressure (>2 PSIG ≤ 10 PSIG)
*MP	Medium Pressure (>10 PSIG ≤ 60 PSIG)
*HP	High Pressure (>60 PSIG)

MISCELLANEOUS CODES

*SER	Service
*R	Riser
(TC)	Transmission Class
BND. FND.	Bound Found
D.H.	Drill Hole
DYL	Double Yellow Line
EP	Edge of Pavement
GRAN.	Granite
SBB	Sloped Bituminous Berm
SWL	Single White Line
T.O.D	Top of Debris
T.O.H	Top of Hood
VGC	Vertical Granite Curb

Gas Main Installation Method Label References

AT	Attached
BH	Bridge Hanger
BLGH	Building Hanger
DB	Directional Bore
IS	Inserted
OC	Open Cut
PB	Pneumatic Bore
PL	Plowed
RT	Roof Top
(E)	Existing
(P)	Proposed

Gas Facility Symbology

xx*GV	Gas Valve
xx*PV	Critical Gas Valve (Gate - GV, Plug - PV, PE Ball - BP, ST Ball - BV)
Ox*HVT	High Volume Tapping Tee
Ox*SST	Pressure Control Fitting - ShortStopp Tee
Ox*SPH	Pressure Control Fitting - Spherical Tee
Ox*MF-BO	Pressure Control Fitting - Mueller Bottom-out
Ox*MF-SO	Pressure Control Fitting - Mueller Side-out
Ox*MF-FT	Pressure Control Fitting - Mueller Flange Tee
Ox*SS	Pressure Control Fitting - ShortStopp
Ox*MF	Pressure Control Fitting - Mueller Stopper
xx*x*POLYTA	Polytapp Side Saddle Fitting
i	Transition
-	End Cap
+	Riser
+	Reducer
EM	Electronic Marker
FM	Flush-mounted Tracer Wire Station
PM	Post Pipeline Marker with Tracer Wire
GM	Gas Main Marker without Tracer Wire
TW	Test Well
RS	Regulator Station
SC	Single Customer Regulator
M	Meter
M	Meter with Regulator
TP	Test Point (Station)
GS	Gas Service Tie-over
GR	Gas Service Replacement
MMO	Meter Move Out
TM	Telephone Manhole
DM	Drain Manhole
EM	Electric Manhole
CB	Catch Basin
SM	Sewer Manhole
FH	Fire Hydrant
UP	Utility Pole
PM	Property Marker
TP	Telephone Pedestal
TE	Television Pedestal
UM	Unknown Manhole
WB	Water Box
WG	Water Gate
EP	Electric Pedestal
IP	Iron Pin
LP	Light Pole
IM	INSIDE METER
OM	OUTSIDE METER

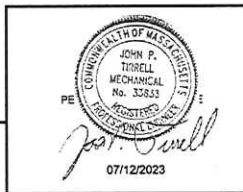
Gas Tie Symbology

TM	Telephone Manhole
DM	Drain Manhole
EM	Electric Manhole
CB	Catch Basin
SM	Sewer Manhole
FH	Fire Hydrant
UP	Utility Pole
PM	Property Marker
TP	Telephone Pedestal
TE	Television Pedestal
UM	Unknown Manhole
WB	Water Box
WG	Water Gate
EP	Electric Pedestal
IP	Iron Pin
LP	Light Pole
IM	INSIDE METER
OM	OUTSIDE METER

NOTES:

- HORIZONTAL DATUM BASED ON NAD83(2011) MASSACHUSETTS STATE PLANE MAINLAND COORDINATE ZONE (2001) DERIVED FROM REDUNDANT GPS OBSERVATIONS UTILIZING THE KEYNET GPS VRS NETWORK.
- VERTICAL DATUM IS BASED ON APPROXIMATE NAVD88(GEOD12A) (+.2) DERIVED FROM REDUNDANT GPS OBSERVATIONS UTILIZING THE KEYNET GPS VRS NETWORK.
- THIS MAP WAS PREPARED FROM LIMITED RECORD RESEARCH, OTHER MAPS, LIMITED FIELD MEASUREMENTS AND OTHER SOURCES. IT IS NOT TO BE CONSTRUED AS A PROPERTY/ BOUNDARY, RIGHT-OF-WAY SURVEY AND IS SUBJECT TO SUCH FACTS AS SAID SURVEYS MAY DISCLOSE.
- PROPER FIELD PROCEDURES WERE FOLLOWED IN ORDER TO GENERATE CONTOURS AT 1' INTERVALS. ANY MODIFICATION OF THIS INTERVAL WILL DIMINISH THE INTEGRITY OF THE DATA, AND DUCJET SURVEY WILL NOT BE RESPONSIBLE FOR ANY SUCH ALTERATION PERFORMED BY THE USER.
- APPROXIMATE RIGHT-OF-WAY AND ABUTTER LINES, AS SHOWN HEREON, ARE BASED UPON A COMBINATION OF LIMITED MONUMENTATION LOCATION, LISTED REFERENCE PLANS AND GIS DATA FROM THE 'BUREAU OF GEOGRAPHIC INFORMATION (MassGIS), COMMONWEALTH OF MASSACHUSETTS, EXECUTIVE OFFICE OF TECHNOLOGY AND SECURITY SERVICES'. NO VERIFICATION OR FURTHER RESEARCH HAS BEEN DONE TO DETERMINE THE RIGHT-OF-WAY.
- UNDERGROUND UTILITIES SHOWN HEREON ARE BASED ON OBSERVED PHYSICAL EVIDENCE AND PAINT MARKS FOUND ON-SITE.
- ALL UNDERGROUND UTILITIES (ELECTRIC, GAS, TEL, WATER, SEWER DRAIN SERVICES) ARE SHOWN IN SCHEMATIC FASHION. THEIR LOCATIONS ARE NOT PRECISE OR NECESSARILY ACCURATE. NO WORK WHATSOEVER SHALL BE UNDERTAKEN USING THIS PLAN TO LOCATE THE ABOVE SERVICES. CONSULT WITH THE PROPER AUTHORITIES CONCERNED WITH THE SUBJECT SERVICE LOCATIONS FOR INFORMATION REGARDING SUCH. CALL DIG-SAFE AT 1-888-DIG-SAFE.
- ABUTTERS NAMES, ADDRESSES AND REFERENCE DEEDS ARE BASED ON ONLINE TOWN ASSESSOR RECORDS.

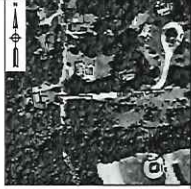
CONSTRUCTION



CHI ENGINEERING An NIVS Company

FIELD VERIFY DIMENSIONS PRIOR TO PIPE FABRICATION

A CONSTRUCTION			
No.	Description	Date	Dw/Ck
Revision/Status			
109 GOULD RD, ANDOVER, MA			
PROJECT # 23GMSYSACT			
LEGEND			
SCALE: NONE		SHEET 03 OF 06	
Drawn by / Date	Checked by / Date	Drawing Number	Rev. No.
CHI, 5/30/2023	XXX XXXXX/XXXX	MA-LAW-TLM-23-652-03	A



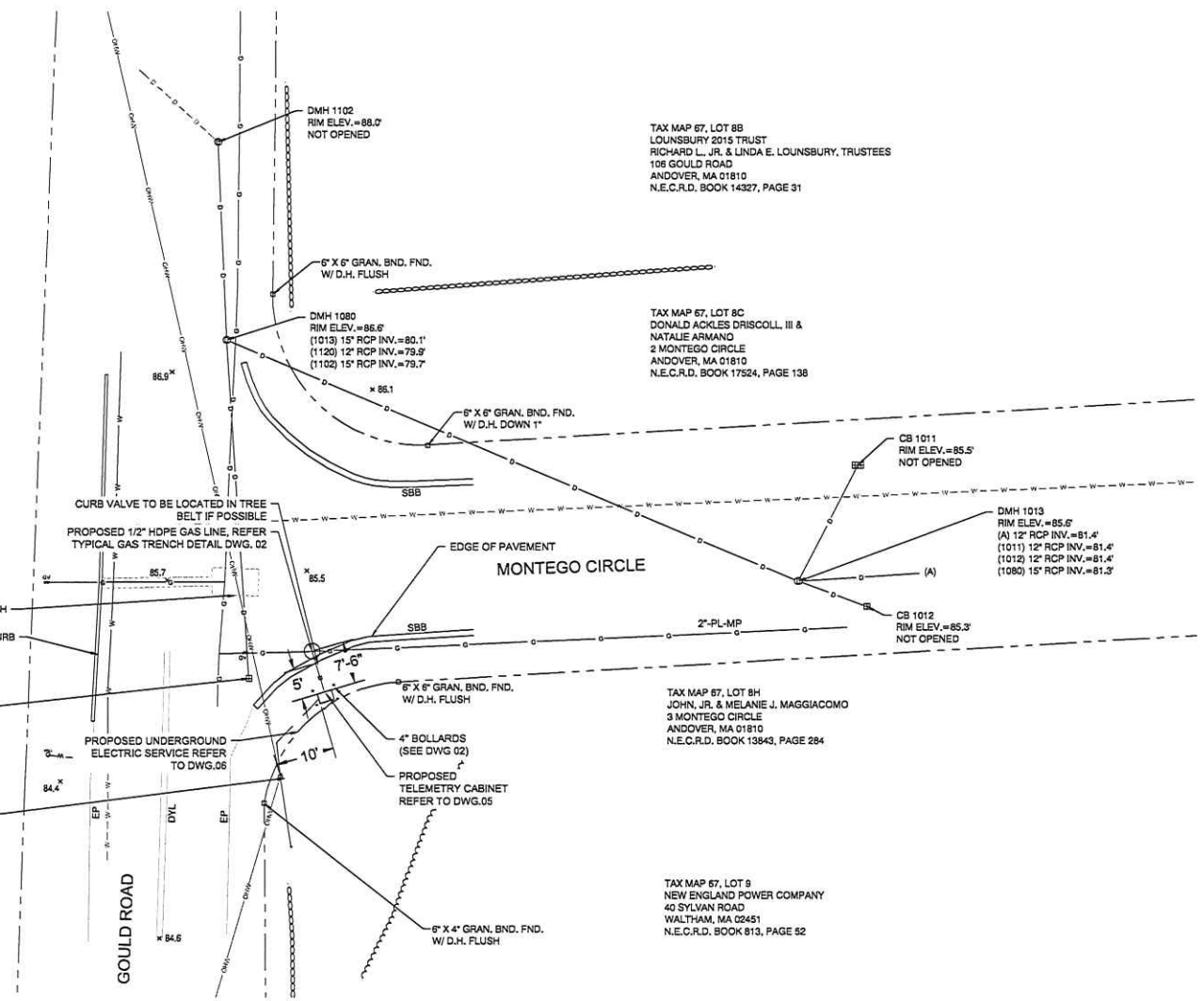
KEY MAP
SCALE: N.T.S.

NOTES FOR GOULD ROAD AND MONTEGO CIRCLE, ANDOVER, MASSACHUSETTS:

- A. FIELD SURVEY PERFORMED BY J.C.M. & G.B.S. DURING MARCH 2023 USING A TRIMBLE S7 TOTAL STATION AND A TRIMBLE R12 SURVEY GRADE GPS WITH A TRIMBLE TSC3 DATA COLLECTOR AND A TRIMBLE DINI DIGITAL AUTO LEVEL. TRAVERSE ADJUSTMENT BASED ON LEAST SQUARE ANALYSIS.
- B. UNDERGROUND UTILITIES PLOTTED ON THE DRAWING ARE BASED ON SURVEY-LOCATED MEASUREMENTS. RECORD GIS INFORMATION WAS RECEIVED FROM THE CITY OF ANDOVER ON MARCH 10, 2023.
- C. UNDERGROUND GAS IS BASED ON OBSERVED PHYSICAL EVIDENCE AND PAINT MARKS FOUND ON-SITE. RECORD INFORMATION WAS BASED UPON EVERSOURCE GIS.

REFERENCE PLANS:

- 1. "PLAN OF LAND IN ANDOVER AND NORTH READING, MASSACHUSETTS TO BE CONVEYED TO NEW ENGLAND POWER COMPANY BY THOMAS A. THOMPSON ET AL" DATED MARCH 16, 1855 BY NEW ENGLAND POWER SERVICE COMPANY, N.E.C.R.D. PLAN 3014.
- 2. "PLAN OF LAND IN ANDOVER, MASS BELONGING TO - THOMAS A. THOMPSON ET AL" DATED OCTOBER 29, 1962 BY ROBERT E. ANDERSON, N.E.C.R.D. PLAN 4640.
- 3. "PLAN OF LAND IN ANDOVER, MASS. BELONGING TO KENNETH H. AND LUELLA H. THOMPSON" DATED SEPTEMBER 14, 1973 BY PAUL C. DANFORTH, N.E.C.R.D. PLAN 6505.
- 4. "PLAN OF LAND IN ANDOVER, MASS. OWNED BY KENNETH THOMPSON" DATED JANUARY 28, 1974 BY ROBERT E. ANDERSON, INC. N.E.C.R.D. PLAN 7003.
- 5. "PLAN OF LAND IN ANDOVER, MASS. OWNED BY - DAVID H. THOMPSON ET UX" DATED MAY 17, 1977 BY ROBERT E. ANDERSON, INC. N.E.C.R.D. PLAN 7710.
- 6. "SUBDIVISION PLAN OF LAND IN ANDOVER, MASSACHUSETTS OF MONTEGO CIRCLE" DATED MAY 5, 1989 BY DANA F. PERKINS & ASSOCIATES, INC. N.E.C.R.D. PLAN 11629.



TAX MAP 67, LOT 10A
JACLYN & ROBERT PORSIA
109 GOULD ROAD
ANDOVER, MA 01810
N.E.C.R.D. BOOK 17397, PAGE 179

CB 1120
RIM ELEV.=84.8'
WATER ELEV.=80.6'
TO REFUSAL=79.6'
SUMP ELEV.=78.4'
(1080) 12" RCP INV.=80.7'

TBM 7953A
MAG NAIL SET UP 6"
IN POLE 5528 W/ 3 COND.
ELEV.=85.26'

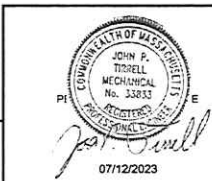
TAX MAP 67, LOT 10
NEW ENGLAND POWER COMPANY
40 SYLVAN ROAD
WALTHAM, MA 02451
N.E.C.R.D. BOOK 813, PAGE 52

TAX MAP 67, LOT 8B
LOUNSBURY 2015 TRUST
RICHARD L. JR. & LINDA E. LOUNSBURY, TRUSTEES
109 GOULD ROAD
ANDOVER, MA 01810
N.E.C.R.D. BOOK 14327, PAGE 31

TAX MAP 67, LOT 8C
DONALD ACKLES DRISCOLL, III &
NATALIE ARMANDO
2 MONTEGO CIRCLE
ANDOVER, MA 01810
N.E.C.R.D. BOOK 17524, PAGE 138

TAX MAP 67, LOT 8H
JOHN, JR. & MELANIE J. MAGGIACOMO
3 MONTEGO CIRCLE
ANDOVER, MA 01810
N.E.C.R.D. BOOK 13843, PAGE 284

TAX MAP 67, LOT 9
NEW ENGLAND POWER COMPANY
40 SYLVAN ROAD
WALTHAM, MA 02451
N.E.C.R.D. BOOK 813, PAGE 52



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CONSTRUCTION

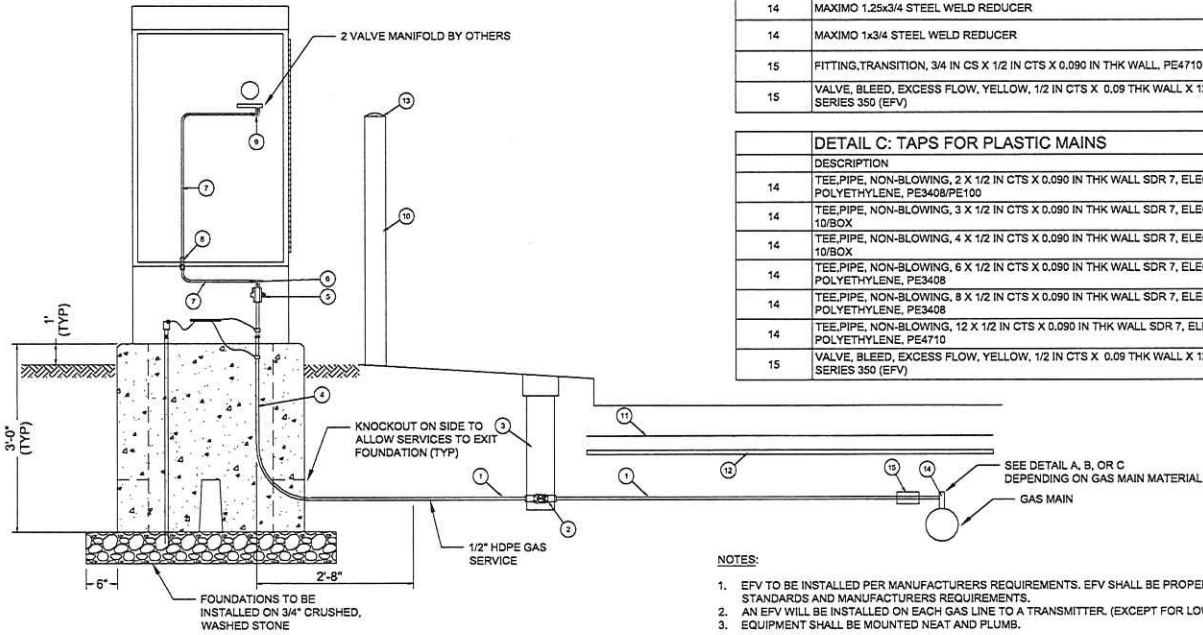
FIELD VERIFY DIMENSIONS
PRIOR TO PIPE FABRICATION

109 GOULD RD, ANDOVER, MA			
PROJECT # 23GMSYSACT			
PROJECT LOCATION PLAN			
SCALE: 1"=10' ON 22"x34"		SHEET 04 OF 06	
Drawn by / Date	Checked by / Date	Drawing Number	Rev. No.
CHI, 5/30/2023	XXX XXX/XXXX	MA-LAW-TLM-23-552-04	A

No.	Description	Date	Dwl/Ck
A	CONSTRUCTION		
	Revision/Status		

BILL OF MATERIAL

ITEM NO.	DESCRIPTION	PART NO.	QUANTITY
1	PIPE, 1/2 IN CTS X 0.090 IN THK WALL SDR 7, 5/8 IN OD, 500 FT LG COIL, POLYETHYLENE, PE3408/PE100	554022	10'
2	VALVE,BALL, FULL PORT, 1/2 IN CTS, SDR 7.0, PE 4710, BUTT FUSE, POLYETHYLENE, BLACK FINISH, REPLACED IN 561834	601132	1
3	CURB VALVE BOX 334 18X24 IN SHAFT LENGTH W NON-LOCKING COVER MAKED "GAS" WALL THICKNESS .125+- .015, FOR USE WITH 1/2-1-1/4" PERFECTION PSV PLASTIC BALL VALVE	557812	1
4	RISER ANODELESS 1/2 X 3/4 PERFECTION 77571 .090W PE 3408 CTS X NPT W/ 12 PIGTAIL	610786	1
5	VALVE, 3/4 IN, SS, THREADED, BALON, LS07592	580957	1
6	ELBOW, MALE 90 SWAGelok, 3/4 NPT X 3/8 TUBE SWAGelok SS-600-2-12 (NON-STOCK EVERSOURCE ITEM)	N/A	1
7	TUBING, 3/8 IN OD, 10 FT LG, 0.035 IN THK WALL, 316/316L SS, CAMBRIDGE VALVE & FITTING - SS-T6-S-035-20 - 20'	500931	6FT.
8	BULKHEAD UNION, 3/8" SWAGelok SS-600-61 (NON-STOCK EVERSOURCE ITEM)	N/A	1
9	ELBOW, MALE 90 SWAGelok, 1/2 NPT X 3/8 TUBE SWAGelok SS-600-2-8 (NON-STOCK EVERSOURCE ITEM)	N/A	1
10	POST, 4 IN X 6 FT, YELLOW, POWDER COATED, 125 LBS, CONCRETE, FOR METER PROTECTION	593751	4
11	TAPE,WARNING, MARKED BURIED GAS LINE, 400 M. (1312 FT.) ROLL, 6 IN., 6 MIL, POLYETHYLENE, YELLOW, LOCATABLE - RFID TAG EVERY 8 FT.	603277	10'
12	PLATE, RECTANGULAR, PROTECTION, 41 IN X 71 IN, HDPE, YELLOW, ANTISLIP BEVELED EDGE DRAIN HOLES, FOR OVERPIPE, CMA 44028102	610792	2
13	BOLLARD COVER, YELLOW, 4.5" X 52" LONG, HDPE, POST GUARD OR EQUAL (NON-STOCK EVERSOURCE ITEM)	N/A	4



DETAIL A: TAPS FOR CAST IRON MAINS			
ITEM NO.	DESCRIPTION	PART NO.	QUANTITY
14	FITTING,TEE, THREADED BRASS BASE SERVICE, 1-1/4 IN NPT X 1 CTS X 0.090 IN WALL, POLYETHYLENE BODY, PE-4710	560810	
14.1	FITTING,REDUCER, COUPLING, LYCOFIT, 1 IN CTS X .099 IN X 1/2 IN CTS X .090 IN THK WALL, HDPE, CMA 21658092	610765	

DETAIL A1: SERVI-SEAL CLAMP			
ITEM NO.	DESCRIPTION	PART NO.	QUANTITY
14	CLAMP,PIPE, SERVI-SEAL REPAIR, 3 IN DIA, 9 IN LG, W/ 1-1/4 IN ID OUTLET, FOR CAST IRON PIPE, FITTING, ID 11633	578017	
14	CLAMP,PIPE, REPAIR, 4 IN CIP, SS, W/1-1/4 NPT TAP, FOR 4.74 - 5.14 IN PIPE	542984	
14	CLAMP,PIPE, REPAIR, 6 IN CIP, SS, W/1-1/4 NPT TAP, FOR 6.84 - 7.24 IN PIPE	542982	
14	CLAMP,PIPE, REPAIR, 8 IN IPS, SS, W/2 IN TAP, ALTERNATE IN 578014 (REQUIRES 2" X 1-1/4" REDUCING BUSHING)	578014	
14	CLAMP,PIPE, FULL CIRCLE REPAIR,DOUBLE BAND, W/ 2 IN NPT OUTLET, 12.75 TO 13.25 IN OD, 304 SS, 10 IN LONG, STEEL NUTS & BOLTS, BUNA-N GASKET (REQUIRES 2" X 1-1/4" REDUCING BUSHING)	578016	

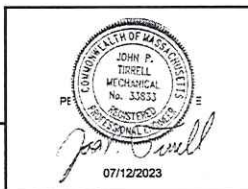
DETAIL B: TAPS FOR STEEL MAINS			
ITEM NO.	DESCRIPTION	PART NO.	QUANTITY
14 / 15	3/4"x1/2" UMAC 40056 SELF TAP WELD TEE IPS x CTS & 5/8" OD COMPRESSION ADAPTER OUTLET WITH SER400 EFV	N/A	
	OR		
14	TEE,PIPE, NON-BLOWING, 1-1/4 IN TEE OUTLET X 1-1/4 IN MAIN, WELDED, 250 PSIG, W/ CI CAP, CMA 44788004	610059	
14	TEE,PIPE, NON-BLOWING, 1 IN, WELDED ENDS, LIGHT WALL, FORGED STEEL BODY, W/ CI CAP	560712	
14	MAXIMO 1.25x3/4 STEEL WELD REDUCER	577887	
14	MAXIMO 1x3/4 STEEL WELD REDUCER	586175	
15	FITTING,TRANSITION, 3/4 IN CS X 1/2 IN CTS X 0.090 IN THK WALL, PE4710 SDR 7, STEEL WELD X PLASTIC BUTT END	546257	
15	VALVE, BLEED, EXCESS FLOW, YELLOW, 1/2 IN CTS X 0.09 THK WALL X 12 IN LG, MODEL #P41, PLASTIC, PE4710, UMAC SERIES 350 (EFV)	592085	

DETAIL C: TAPS FOR PLASTIC MAINS			
ITEM NO.	DESCRIPTION	PART NO.	QUANTITY
14	TEE,PIPE, NON-BLOWING, 2 X 1/2 IN CTS X 0.090 IN THK WALL SDR 7, ELECTROFUSION X COMPRESSION ENDS, LIGHT WALL, POLYETHYLENE, PE3408/PE100	500866	1
14	TEE,PIPE, NON-BLOWING, 3 X 1/2 IN CTS X 0.090 IN THK WALL SDR 7, ELECTROFUSION X COMPRESSION ENDS, HDPE, PE3408, 10/BOX	578017	
14	TEE,PIPE, NON-BLOWING, 4 X 1/2 IN CTS X 0.090 IN THK WALL SDR 7, ELECTROFUSION X COMPRESSION ENDS, HDPE, PE3408, 10/BOX	500867	
14	TEE,PIPE, NON-BLOWING, 6 X 1/2 IN CTS X 0.090 IN THK WALL SDR 7, ELECTROFUSION X COMPRESSION ENDS, POLYETHYLENE, PE3408	500869	
14	TEE,PIPE, NON-BLOWING, 8 X 1/2 IN CTS X 0.090 IN THK WALL SDR 7, ELECTROFUSION X COMPRESSION ENDS, POLYETHYLENE, PE3408	578014	
14	TEE,PIPE, NON-BLOWING, 12 X 1/2 IN CTS X 0.090 IN THK WALL SDR 7, ELECTROFUSION X COMPRESSION ENDS, LIGHT WALL, POLYETHYLENE, PE4710	560847	
15	VALVE, BLEED, EXCESS FLOW, YELLOW, 1/2 IN CTS X 0.09 THK WALL X 12 IN LG, MODEL #P41, PLASTIC, PE4710, UMAC SERIES 350 (EFV)	592085	1

- NOTES:**
- EFV TO BE INSTALLED PER MANUFACTURERS REQUIREMENTS. EFV SHALL BE PROPERLY SIZED FOR APPLICATION PER EVERSOURCE STANDARDS AND MANUFACTURERS REQUIREMENTS.
 - AN EFV WILL BE INSTALLED ON EACH GAS LINE TO A TRANSMITTER. (EXCEPT FOR LOW PRESSURE SERVICES)
 - EQUIPMENT SHALL BE MOUNTED NEAT AND PLUMED.

CONSTRUCTION			
No.	Description	Date	Dw/Ck

CONSTRUCTION



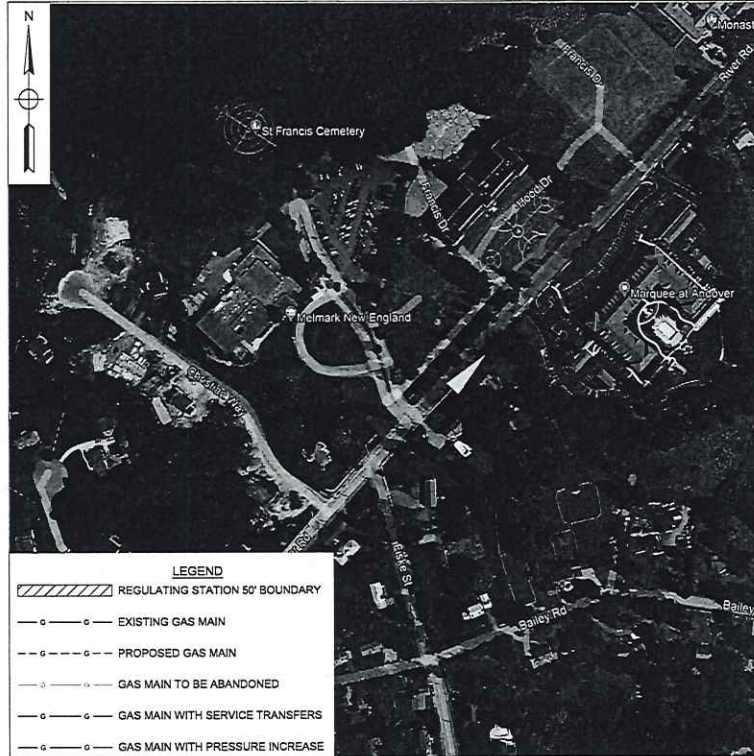
CHI ENGINEERING An **NIVIS** Company

109 GOULD RD, ANDOVER, MA			
PROJECT # 23GMSYSACT			
STANDARD TELEMETRY SERVICE DETAIL UP TO 98 PSIG MAOP			
SCALE: NTS ON 22"X34"			
Drawn by / Date	Checked by / Date	Drawing Number	Rev. No.
CHI, 5/30/2023	XXX XX/XX/XXXX	MA-LAW-TLM-23-552-05	A

TABLE OF CONTENTS

SHEET #	TITLE
1 OF 6	COVER SHEET
2 OF 6	NOTES & DETAILS
3 OF 6	LEGEND
4 OF 6	PROJECT LOCATION PLAN
5 OF 6	STANDARD TELEMTRY SERVICE DETAIL UP TO 98 PSIG MAOP
6 OF 6	STANDARD NATIONAL GRID ELECTRICAL SERVICE

EVERSOURCE ENERGY



WORK SCOPE

PASTE EXCEL FOOTAGE TABLE HERE

464 RIVER RD, ANDOVER, MA
PROJECT #23GMSYSACT

CONSTRUCTION



CHI ENGINEERING An **MIVIS** Company

FIELD VERIFY DIMENSIONS PRIOR TO PIPE FABRICATION

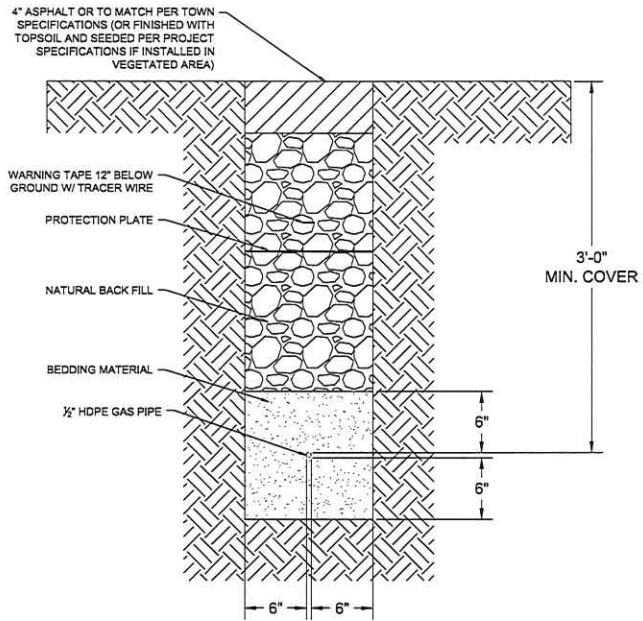
No.	Description	Date	Dw/Ck
A	CONSTRUCTION		

EVERSOURCE ENERGY
464 RIVER RD, ANDOVER, MA
PROJECT # 23GMSYSACT
COVER SHEET

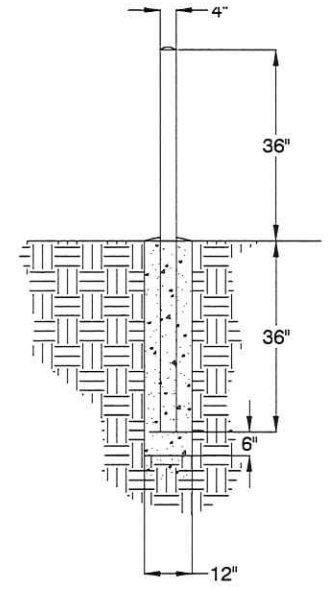
SCALE: NONE		SHEET 01 OF 06	
Drawn by / Date	Checked by / Date	Drawing Number	Rev. No.
CHI, 6/13/2023	XXX / XXX/XXXX	MA-LAW-TLM-23-514-01	A

GENERAL NOTES:

- A. IF ANY OF THE FOLLOWING OCCUR A DRAWING REVISION IS REQUIRED AND MUST BE APPROVED AND/OR STAMPED BY THE ENGINEER OF RECORD. CHANGES CAN BE APPROVED AND/OR STAMPED BY A PROJECT ENGINEER, BUT THE ENGINEER OF RECORD MUST BE INFORMED.
 - 1. IF THE TIE IN POINT MOVES TO A DIFFERENT SEGMENT OF PIPE THAN SHOWN.
 - 2. IF A CHANGE IN THE LOCATION OF VALVES IS REQUIRED.
 - 3. IF THERE IS ANY CHANGE TO WHAT IS SHOWN ON THE DRAWING WITHIN 50 FT OF A PRESSURE REGULATING STATION, DISTRICT REGULATOR, OR GATE STATION.
 - 4. IF A CHANGE IN PIPE SIZE, MATERIAL, OR WALL THICKNESS IS REQUIRED.
 - 5. ALTERNATE FITTINGS THAT ARE ACCEPTABLE FOR ANY TIE-IN DETAIL WILL BE CALLED OUT IN THE DRAWING. FITTING CHANGES NOT SHOWN AS ALTERNATIVES ON THE DRAWING WILL NEED TO FOLLOW THE DRAWING CHANGE PROCESS.
- B. CONSTRUCTION DRAWINGS, LOCATIONS OF EXISTING UTILITIES, UNDERGROUND STRUCTURES AND WORK LOCATIONS ARE BASED ON BEST AVAILABLE INFORMATION BUT HAVE NOT BEEN FIELD VERIFIED.
- C. ALL WORK, MATERIAL AND CONSTRUCTION SHALL BE PERFORMED AND COMPLETED IN COMPLIANCE WITH ALL PERMITS AND APPROVALS PER EVERSOURCE, LOCAL, STATE, OSHA AND FEDERAL REGULATIONS AND STANDARDS.
- D. ALL LIVE GAS WORK EXCEPT SERVICE SIZE TAPS, INCLUDING BUT NOT LIMITED TO TAPPING OF FITTINGS ON LIVE MAINS, STOPPING, MANIPULATING VALVE, ABANDONMENT, SHALL BE PERFORMED BY, OR AT THE DIRECTION AND UNDER THE DIRECT SUPERVISION OF EVERSOURCE GAS PERSONNEL AND IN ACCORDANCE WITH THE WRITTEN PROCEDURE. DRAWING CHANGES MAY ALSO REQUIRE A CHANGE TO THE PROCEDURE.
- E. EXCAVATOR IS REQUIRED TO PROTECT EXISTING UTILITIES, STRUCTURES, LANDSCAPES FEATURES, SIGNAGE, CURBS, ETC. CARE SHOULD BE TAKEN NOT TO DISTURB OR DAMAGE SUCH ITEMS. ROADWAY, SIDEWALKS, AND GRASS DISTURBED SHALL BE RESTORED TO THE SATISFACTION OF THE CITY OR TOWN, PLANT BEDS WILL BE RELOCATED TO THEIR EXISTING REGULAR LOCATION.
- F. ALL TRAFFIC CONTROL SHALL CONFORM TO THE LATEST EDITION OF THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), INCLUDING ALL REVISIONS AND ADDENDA, ALL TRAFFIC CONTROL DEVICES WILL BE SUPPLIED BY EXCAVATOR.
- G. EXISTING CONDITIONS SHOWN ARE BASED ON A SURVEY BY CHI ENGINEERING. EXISTING UTILITIES WERE COMPILED FROM EXISTING CONDITIONS IN THE FIELD AS WELL AS RECORD DRAWINGS OBTAINED FROM LOCAL UTILITIES.
- H. LOCATION OF UNDERGROUND UTILITIES IS APPROXIMATE AND IS NOT WARRANTED TO BE CORRECT.
- I. CONTRACTOR MUST NOTIFY DIG SAFE (811) AT LEAST 72 HOURS PRIOR TO THE START OF CONSTRUCTION.
- J. NEW PIPING SHALL BE PRESSURE TESTED AT 1.5 TIMES MAOP FOR A MINIMUM OF 1 HOUR. 150 PSIG IS THE MINIMUM TEST PRESSURE.
- K. ALL FIELD COATING SHALL BE PERFORMED PER EVERSOURCE SPECIFICATIONS.



TYPICAL GAS TRENCH
NOT TO SCALE
(PROPOSED UTILITIES SHALL MAINTAIN MINIMUM 12" SEPARATION FROM EXISTING UTILITIES)



BOLLARD DETAIL
NOT TO SCALE
DOME TOP WITH CONCRETE
STANDARD STEEL PIPE FILLED WITH CONCRETE
PAINT EXPOSED SURFACES YELLOW
CONCRETE SLOPED AWAY FROM PIPE AT BASE

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CONSTRUCTION



CHI ENGINEERING An NIVIS Company

FIELD VERIFY DIMENSIONS PRIOR TO PIPE FABRICATION

No.	Description	Date	Dw/Ck
A	CONSTRUCTION		
Revision/Status			
464 RIVER RD, ANDOVER, MA PROJECT # 23GMSYSACT			
NOTES & DETAILS			
SCALE: NONE		SHEET 02 OF 06	
Drawn by / Date	Checked by / Date	Drawing Number	Rev. No.
CHI, 6/13/2023	XXX XXX/XXXX	MA-LAW-TLM-23-514-02	A

H:\EVERSOURCE\EVER2023\03 Pressure Monitoring Design\Auto\etd4 River RM4 River Rd Drawing.dwg

DRAWING LEGEND

Gas Main Symbology	
REGULATING STATION 50' BOUNDARY	
EXISTING GAS MAIN	
PROPOSED GAS MAIN	
GAS MAIN TO BE ABANDONED	
GAS MAIN WITH SERVICE TRANSFERS	
GAS MAIN WITH PRESSURE INCREASE	
RIGHT-OF-WAY	
ELECTRIC	
WATER LINE	
SEWER LINE	
TELEPHONE	
DRAIN LINE	
FENCE LINE	
CONDUIT	
OVERHEAD WIRE	
DIGITIZED GAS LINE (SEE NOTE 7)	
DIGITIZED SEWER LINE (SEE NOTE 7)	
DIGITIZED WATER LINE (SEE NOTE 7)	
MAJOR CONTOUR LINE	
MINOR CONTOUR LINE	
STONEWALL	
REMNANT STONE WALL	
RETAINING WALL	
CONCRETE	
PILE	
TREE LINE	
SHRUB LINE	

Gas Main Material/Pressure Label References

MATERIAL CODES

CS*	Coated Steel Gas Main
CI*	Cast Iron Gas Main
BS*	Bare Steel Gas Main
WI*	Wrought Iron Gas Main
PH*	High Density Polyethylene Gas Main
PM*	Medium Density Polyethylene Gas Main

PRESSURE CODES

*LP	Low Pressure (<0.5 PSIG or 14" W.C.)
*IP	Intermediate Pressure (>2 PSIG ≤ 10 PSIG)
*MP	Medium Pressure (>10 PSIG ≤ 60 PSIG)
*HP	High Pressure (>60 PSIG)

MISCELLANEOUS CODES

*SER	Service
*R	Riser
(TC)	Transmission Class
BND. FND.	Bound Found
D.H.	Drill Hole
DYL	Double Yellow Line
EP	Edge of Pavement
GRAN.	Granite
SBB	Sloped Bituminous Berm
SWL	Single White Line
T.O.D	Top of Debris
T.O.H	Top of Hood
VGC	Vertical Granite Curb

Gas Main Installation Method Label References

AT	Attached
BH	Bridge Hanger
BLGH	Building Hanger
DB	Directional Bore
IS	Inserted
OC	Open Cut
PB	Pneumatic Bore
PL	Plowed
RT	Root Top
(E)	Existing
(F)	Proposed

Gas Facility Symbology

xx'GV	Gas Valve
xx'PV	Critical Gas Valve (Gate - GV, Plug - PV, PE Ball - BP, ST Ball - BV)
Ox'HVTT	High Volume Tapping Tee
Ox'SST	Pressure Control Fitting - ShortStopp Tee
Ox'SPH	Pressure Control Fitting - Spherical Tee
Ox'MF-BO	Pressure Control Fitting - Mueller Bottom-out
Ox'MF-SO	Pressure Control Fitting - Mueller Side-out
Ox'MF-FT	Pressure Control Fitting - Mueller Flange Tee
Ox'SS	Pressure Control Fitting - ShortStopp
Ox'MF	Pressure Control Fitting - Mueller Stopper
xx'x' POLYTAP	Polytapp Side Saddle Fitting
⊥	Transition
⊖	End Cap
⊕	Riser
⊖	Reducer
⊕	Electronic Marker
⊕	Flush-mounted Tracer Wire Station
⊕	Post Pipeline Marker with Tracer Wire
⊕	Gas Main Marker without Tracer Wire
⊕	Test Well
⊕	Regulator Station
⊕	Single Customer Regulator
⊕	Meter
⊕	Meter with Regulator
⊕	Test Point (Station)
⊕	Gas Service Tie-over
⊕	Gas Service Replacement
⊕	Meter Move Out

Swing Tie Symbology

⊕	Telephone Manhole
⊕	Drain Manhole
⊕	Electric Manhole
⊕	Catch Basin
⊕	Sewer Manhole
⊕	Fire Hydrant
⊕	Utility Pole
⊕	Property Marker
⊕	Telephone Pedestal
⊕	Television Pedestal
⊕	Unknown Manhole
⊕	Water Box
⊕	Water Gate
⊕	Electric Pedestal
⊕	Iron Pin
⊕	Light Pole
■	INSIDE METER
●	OUTSIDE METER

NOTES:

- HORIZONTAL DATUM BASED ON NAD83(2011) MASSACHUSETTS STATE PLANE MAINLAND COORDINATE ZONE (2001) DERIVED FROM REDUNDANT GPS OBSERVATIONS UTILIZING THE KEYNET GPS VRS NETWORK.
- VERTICAL DATUM IS BASED ON APPROXIMATE NAVD83(GEOD12A) (+/-2) DERIVED FROM REDUNDANT GPS OBSERVATIONS UTILIZING THE KEYNET GPS VRS NETWORK.
- THIS MAP WAS PREPARED FROM LIMITED RECORD RESEARCH, OTHER MAPS, LIMITED FIELD MEASUREMENTS AND OTHER SOURCES. IT IS NOT TO BE CONSTRUED AS A PROPERTY BOUNDARY, RIGHT-OF-WAY SURVEY AND IS SUBJECT TO SUCH FACTS AS SAID SURVEYS MAY DISCLOSE.
- PROPER FIELD PROCEDURES WERE FOLLOWED IN ORDER TO GENERATE CONTOURS AT 1' INTERVALS. ANY MODIFICATION OF THIS INTERVAL WILL DIMINISH THE INTEGRITY OF THE DATA, AND DOUCET SURVEY WILL NOT BE RESPONSIBLE FOR ANY SUCH ALTERATION PERFORMED BY THE USER.
- APPROXIMATE RIGHT-OF-WAY AND ABUTTER LINES, AS SHOWN HEREON, ARE BASED UPON A COMBINATION OF LIMITED MONUMENTATION LOCATION, LISTED REFERENCE PLANS AND GIS DATA FROM THE 'BUREAU OF GEOGRAPHIC INFORMATION (MassGIS), COMMONWEALTH OF MASSACHUSETTS, EXECUTIVE OFFICE OF TECHNOLOGY AND SECURITY SERVICES'. NO VERIFICATION OR FURTHER RESEARCH HAS BEEN DONE TO DETERMINE THE RIGHT-OF-WAY.
- UNDERGROUND UTILITIES SHOWN HEREON ARE BASED ON OBSERVED PHYSICAL EVIDENCE AND PAINT MARKS FOUND ON-SITE.
- ALL UNDERGROUND UTILITIES (ELECTRIC, GAS, TEL, WATER, SEWER DRAIN SERVICES) ARE SHOWN IN SCHEMATIC FASHION, THEIR LOCATIONS ARE NOT PRECISE OR NECESSARILY ACCURATE. NO WORK WHATSOEVER SHALL BE UNDERTAKEN USING THIS PLAN TO LOCATE THE ABOVE SERVICES. CONSULT WITH THE PROPER AUTHORITIES CONCERNED WITH THE SUBJECT SERVICE LOCATIONS FOR INFORMATION REGARDING SUCH. CALL DIG-SAFE AT 1-888-DIG-SAFE.
- ABUTTERS NAMES, ADDRESSES AND REFERENCE DEEDS ARE BASED ON ONLINE TOWN ASSESSOR RECORDS.

CONSTRUCTION

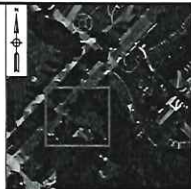


CHI ENGINEERING An **HWIS** Company

07/12/2023

FIELD VERIFY DIMENSIONS PRIOR TO PIPE FABRICATION

A CONSTRUCTION			
No.	Description	Date	Dw/Ck
Revision/Status			
464 RIVER RD, ANDOVER, MA			
PROJECT # 23GMSYSACT			
LEGEND			
SCALE: NONE			
SHEET 03 OF 06			
Drawn by / Date	Checked by / Date	Drawing Number	Rev. No.
CHI, 8/13/2023	XXX XXX/XXXX	MA-LAW-TLM-23-514-03	A



KEY MAP
SCALE: N.T.S.

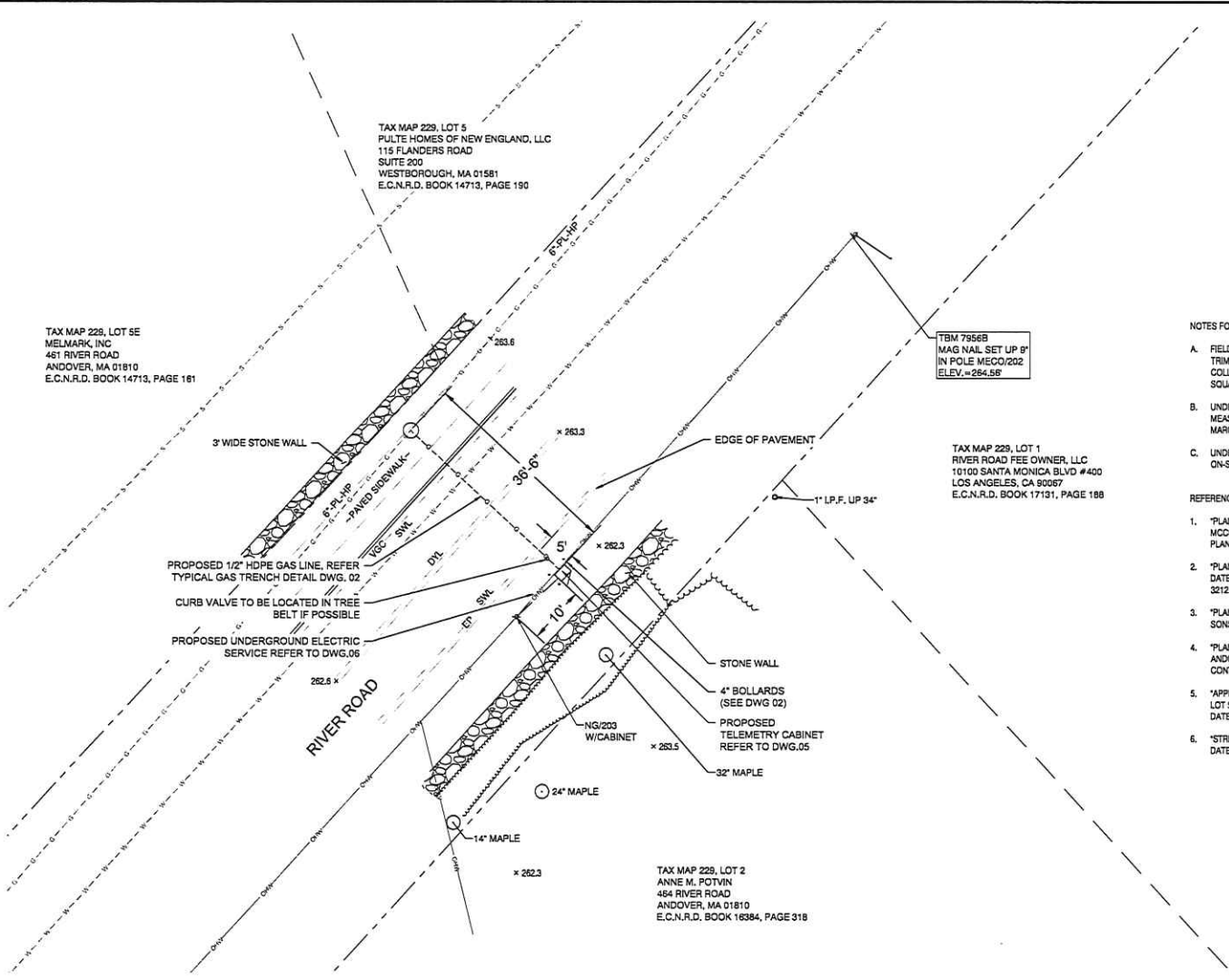
TAX MAP 228, LOT 5E
MELMARK, INC
451 RIVER ROAD
ANDOVER, MA 01810
E.C.N.R.D. BOOK 14713, PAGE 161

TAX MAP 229, LOT 5
PULTE HOMES OF NEW ENGLAND, LLC
115 FLANDERS ROAD
SUITE 200
WESTBOROUGH, MA 01581
E.C.N.R.D. BOOK 14713, PAGE 190

TBM 7956B
MAG NAIL SET UP 8'
IN POLE MECO/202
ELEV.=264.56'

TAX MAP 229, LOT 1
RIVER ROAD FEE OWNER, LLC
10100 SANTA MONICA BLVD #400
LOS ANGELES, CA 90087
E.C.N.R.D. BOOK 17191, PAGE 188

TAX MAP 229, LOT 2
ANNE M. POTVIN
484 RIVER ROAD
ANDOVER, MA 01810
E.C.N.R.D. BOOK 16384, PAGE 318



NOTES FOR RIVER ROAD, ANDOVER, MASSACHUSETTS:

- A. FIELD SURVEY PERFORMED BY D.J.B. & D.W.D. (DOUCET SURVEY) DURING MARCH 2023 USING A TRIMBLE S6 TOTAL STATION AND A TRIMBLE R12 SURVEY GRADE GPS WITH A TRIMBLE TSC3 COLLECTOR AND A TRIMBLE DINI DIGITAL LEVEL. TRAVERSE ADJUSTMENT BASED ON LEAST SQUARE ANALYSIS.
- B. UNDERGROUND UTILITIES PLOTTED ON THE DRAWING ARE BASED ON SURVEY-LOCATED MEASUREMENTS. RECORD GIS INFORMATION WAS RECEIVED FROM THE CITY OF ANDOVER ON MARCH 10, 2023.
- C. UNDERGROUND GAS IS BASED ON OBSERVED PHYSICAL EVIDENCE AND PAINT MARKS FOUND ON-SITE. RECORD INFORMATION WAS BASED UPON EVERSOURCE GIS.

REFERENCE PLANS:

- 1. "PLAN OF LAND IN ANDOVER, MASS COMPILED FROM VARIOUS SOURCES FOR MRS. G.A. MCCORMACK" DATED OCTOBER 1938 BY BROOKS, JORDAN AND GRAVES CIVIL ENGRS. N.E.C.R.D. PLAN 1206.
- 2. "PLAN OF A PORTION OF LAND IN ANDOVER, MASS BELONGING TO ALFRED & ANGELENA POTVIN" DATED JANUARY, 1956 BY J.C. & W.T. MGNAHAN CIVIL ENGINEERS & SURVEYORS. N.E.C.R.D. PLAN 3212.
- 3. "PLAN OF LAND IN ANDOVER & TEWKSBURY, MASS" DATED JUNE 13, 1956 BY DANA F. PERKINS & SONS INC. N.E.C.R.D. PLAN 5565.
- 4. "PLAN OF LAND PULTE HOMES 0 & 459 RIVER ROAD LOT 4, MAP 228 & LOT 5, MAP 229 TOWN OF ANDOVER, ESSEX COUNTY COMMONWEALTH OF MASSACHUSETTS" DATED MARCH 8, 2016 BY CONTROL POINT ASSOCIATES, INC. N.E.C.R.D. PLAN 17443.
- 5. "APPROVAL NOT REQUIRED PLAN OF LAND PULTE HOMES 0 & 459 RIVER ROAD LOT 4, MAP 228 & LOT 5, MAP 229 TOWN OF ANDOVER, ESSEX COUNTY COMMONWEALTH OF MASSACHUSETTS" DATED MARCH 8, 2017 BY CONTROL POINT ASSOCIATES, INC. N.E.C.R.D. PLAN 17597.
- 6. "STREET ACCEPTANCE PLAN CHRISTIAN WAY ANDOVER, MASS DRAWN FOR TOWN OF ANDOVER" DATED JUNE 12, 2015 BY MERRIMACK ENGINEERING SERVICES. N.E.C.R.D. PLAN 17657.



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No.	Description	Date	Dw/Ck
A	CONSTRUCTION		

CONSTRUCTION

CHI ENGINEERING An NIVIS Company

FIELD VERIFY DIMENSIONS PRIOR TO PIPE FABRICATION

454 RIVER RD, ANDOVER, MA			
PROJECT # 23GMSYSACT			
PROJECT LOCATION PLAN			
SCALE: 1"=10' ON 22"x34"		SHEET 04 OF 06	
Drawn by / Date	Checked by / Date	Drawing Number	Rev. No.
CHI, 6/13/2023	XXX XXX/XXXX	MA-LAW-TLM-23-514-04	A

TABLE OF CONTENTS

SHEET #	TITLE
1 OF 6	COVER SHEET
2 OF 6	NOTES & DETAILS
3 OF 6	LEGEND
4 OF 6	PROJECT LOCATION PLAN
5 OF 6	STANDARD TELEMTRY SERVICE DETAIL UP TO 98 PSIG MAOP
6 OF 6	STANDARD NATIONAL GRID ELECTRICAL SERVICE

EVERSOURCE ENERGY



LEGEND

	REGULATING STATION 50' BOUNDARY
	EXISTING GAS MAIN
	PROPOSED GAS MAIN
	GAS MAIN TO BE ABANDONED
	GAS MAIN WITH SERVICE TRANSFERS
	GAS MAIN WITH PRESSURE INCREASE

WORK SCOPE

PASTE EXCEL FOOTAGE TABLE HERE

BELLEVUE RD. AND BARRON CT., ANDOVER, MA
PROJECT #23GMSYSACT

CONSTRUCTION



05/03/2023

CHI ENGINEERING An NIVIS Company

FIELD VERIFY DIMENSIONS PRIOR TO PIPE FABRICATION

No.	Description	Revision/Status	Date	Dw/CK
2	CONSTRUCTION		5/3/2023	CHI
1	CONSTRUCTION		1/18/2023	CHI
0	CONSTRUCTION		1/12/2023	CHI

EVERSOURCE ENERGY
BELLEVUE RD, AND BARRON CT., ANDOVER, MA
PROJECT # 23GMSYSACT
COVER SHEET

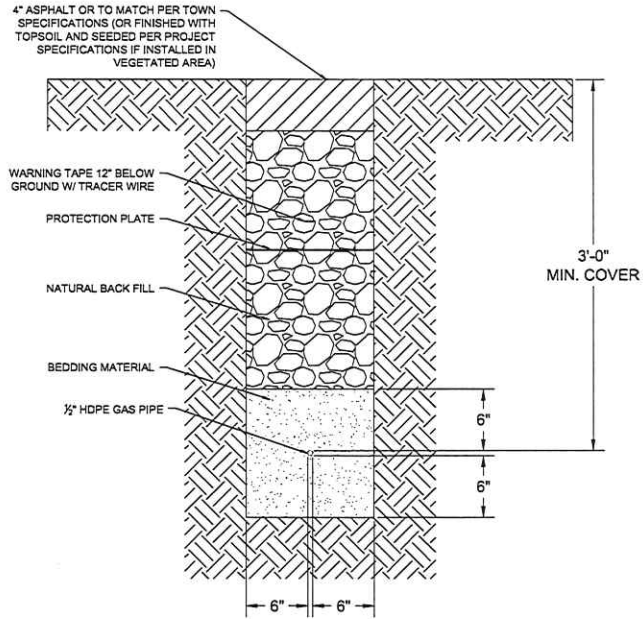
SCALE: NONE SHEET 01 OF 06

Drawn by / Date	Checked by / Date	Drawing Number	Rev. No.
CHI, 12/13/2022	XXX / XX/XX/XXXX	MA-LAW-TLM-23-518-01	2

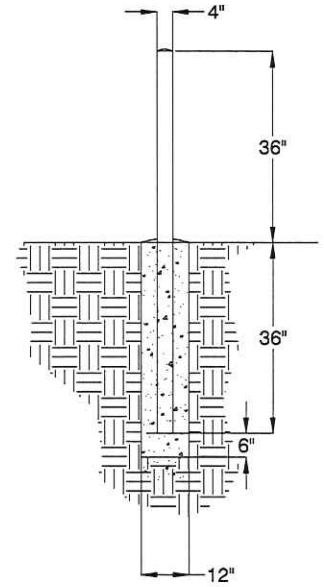
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GENERAL NOTES:

- A. IF ANY OF THE FOLLOWING OCCUR A DRAWING REVISION IS REQUIRED AND MUST BE APPROVED AND/OR STAMPED BY THE ENGINEER OF RECORD. CHANGES CAN BE APPROVED AND/OR STAMPED BY A PROJECT ENGINEER, BUT THE ENGINEER OF RECORD MUST BE INFORMED.
 - 1. IF THE TIE IN POINT MOVES TO A DIFFERENT SEGMENT OF PIPE THAN SHOWN.
 - 2. IF A CHANGE IN THE LOCATION OF VALVES IS REQUIRED.
 - 3. IF THERE IS ANY CHANGE TO WHAT IS SHOWN ON THE DRAWING WITHIN 50 FT OF A PRESSURE REGULATING STATION, DISTRICT REGULATOR, OR GATE STATION.
 - 4. IF A CHANGE IN PIPE SIZE, MATERIAL, OR WALL THICKNESS IS REQUIRED.
 - 5. ALTERNATE FITTINGS THAT ARE ACCEPTABLE FOR ANY TIE-IN DETAIL WILL BE CALLED OUT IN THE DRAWING. FITTING CHANGES NOT SHOWN AS ALTERNATIVES ON THE DRAWING WILL NEED TO FOLLOW THE DRAWING CHANGE PROCESS.
- B. CONSTRUCTION DRAWINGS, LOCATIONS OF EXISTING UTILITIES, UNDERGROUND STRUCTURES AND WORK LOCATIONS ARE BASED ON BEST AVAILABLE INFORMATION BUT HAVE NOT BEEN FIELD VERIFIED.
- C. ALL WORK, MATERIAL AND CONSTRUCTION SHALL BE PERFORMED AND COMPLETED IN COMPLIANCE WITH ALL PERMITS AND APPROVALS PER EVERSOURCE, LOCAL, STATE, OSHA AND FEDERAL REGULATIONS AND STANDARDS.
- D. ALL LIVE GAS WORK EXCEPT SERVICE SIZE TAPS, INCLUDING BUT NOT LIMITED TO TAPPING OF FITTINGS ON LIVE MAINS, STOPPING, MANIPULATING VALVE, ABANDONMENT, SHALL BE PERFORMED BY, OR AT THE DIRECTION AND UNDER THE DIRECT SUPERVISION OF EVERSOURCE GAS PERSONNEL AND IN ACCORDANCE WITH THE WRITTEN PROCEDURE. DRAWING CHANGES MAY ALSO REQUIRE A CHANGE TO THE PROCEDURE.
- E. EXCAVATOR IS REQUIRED TO PROTECT EXISTING UTILITIES, STRUCTURES, LANDSCAPES FEATURES, SIGNAGE, CURBS, ETC. CARE SHOULD BE TAKEN NOT TO DISTURB OR DAMAGE SUCH ITEMS. ROADWAY, SIDEWALKS, AND GRASS DISTURBED SHALL BE RESTORED TO THE SATISFACTION OF THE CITY OR TOWN. PLANT BEDS WILL BE RELOCATED TO THEIR EXISTING REGULAR LOCATION.
- F. ALL TRAFFIC CONTROL SHALL CONFORM TO THE LATEST EDITION OF THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), INCLUDING ALL REVISIONS AND ADDENDA. ALL TRAFFIC CONTROL DEVICES WILL BE SUPPLIED BY EXCAVATOR.
- G. EXISTING CONDITIONS SHOWN ARE BASED ON A SURVEY BY CHI ENGINEERING. EXISTING UTILITIES WERE COMPILED FROM EXISTING CONDITIONS IN THE FIELD AS WELL AS RECORD DRAWINGS OBTAINED FROM LOCAL UTILITIES.
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- J. NEW PIPING SHALL BE PRESSURE TESTED AT 1.5 TIMES MAOP FOR A MINIMUM OF 1 HOUR. 150 PSIG IS THE MINIMUM TEST PRESSURE.
- K. ALL FIELD COATING SHALL BE PERFORMED PER EVERSOURCE SPECIFICATIONS.

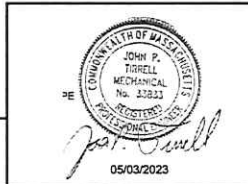


TYPICAL GAS TRENCH
 NOT TO SCALE
 (PROPOSED UTILITIES SHALL MAINTAIN MINIMUM 12" SEPARATION FROM EXISTING UTILITIES)



BOLLARD DETAIL
 NOT TO SCALE
 DOME TOP WITH CONCRETE
 STANDARD STEEL PIPE FILLED WITH CONCRETE
 PAINT EXPOSED SURFACES YELLOW
 CONCRETE SLOPED AWAY FROM PIPE AT BASE

CONSTRUCTION



CHI ENGINEERING An NIVIS Company

FIELD VERIFY DIMENSIONS PRIOR TO PIPE FABRICATION

No.	Description	Date	Dw/Ck
2	CONSTRUCTION	5/3/2023	CHI
1	CONSTRUCTION	1/18/2023	CHI
0	CONSTRUCTION	1/12/2023	CHI

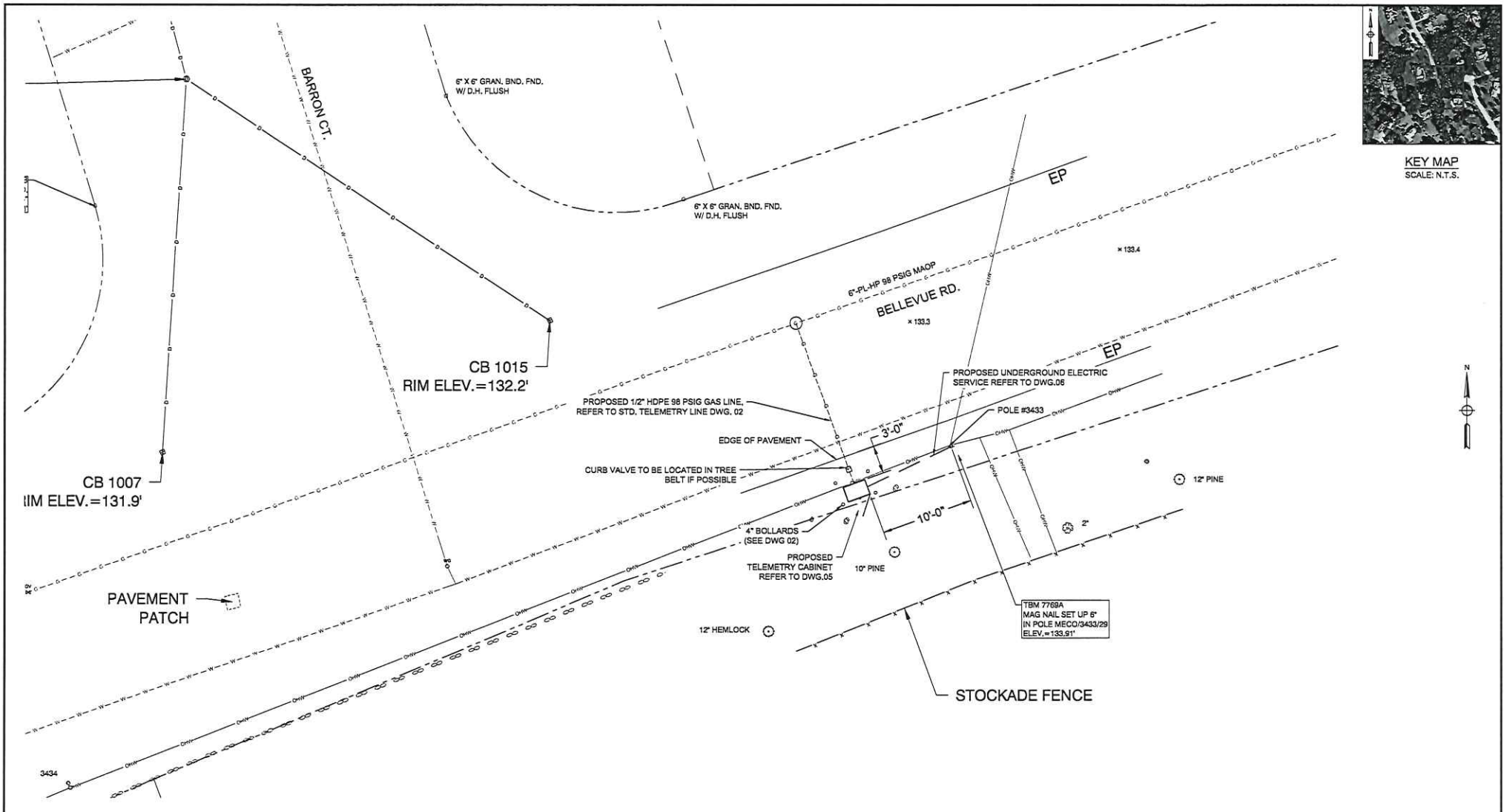
Revision/Status

BELLEVUE RD. AND BARRON CT., ANDOVER, MA
 PROJECT # 23GMSYSACT

NOTES & DETAILS

SCALE: NONE SHEET 02 OF 06

Drawn by / Date	Checked by / Date	Drawing Number	Rev. No.
CHI, 12/13/2022	XXX XXXX/XXXX	MA-LAW-TLM-23-518-02	2



KEY MAP
SCALE: N.T.S.



No.	Description	Date	Dwl/Ck
2	CONSTRUCTION	5/3/2023	CHI
1	CONSTRUCTION	1/18/2023	CHI
0	CONSTRUCTION	1/12/2023	CHI

CONSTRUCTION

05/03/2023

CHI ENGINEERING An NIVIS Company

FIELD VERIFY DIMENSIONS
PRIOR TO PIPE FABRICATION

BELLEVUE RD. & BARRON CT., ANDOVER, MA			
PROJECT # 23GMSYSACT			
PROJECT LOCATION PLAN			
SCALE: 1"=5' ON 22"X34"		SHEET 04 OF 06	
Drawn by / Date	Checked by / Date	Drawing Number	
CHI, 12/20/2022	XXX XXX/XXXXXX	MA-LAW-TLM-23-518-04	
			Rev. No. 2

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BILL OF MATERIAL

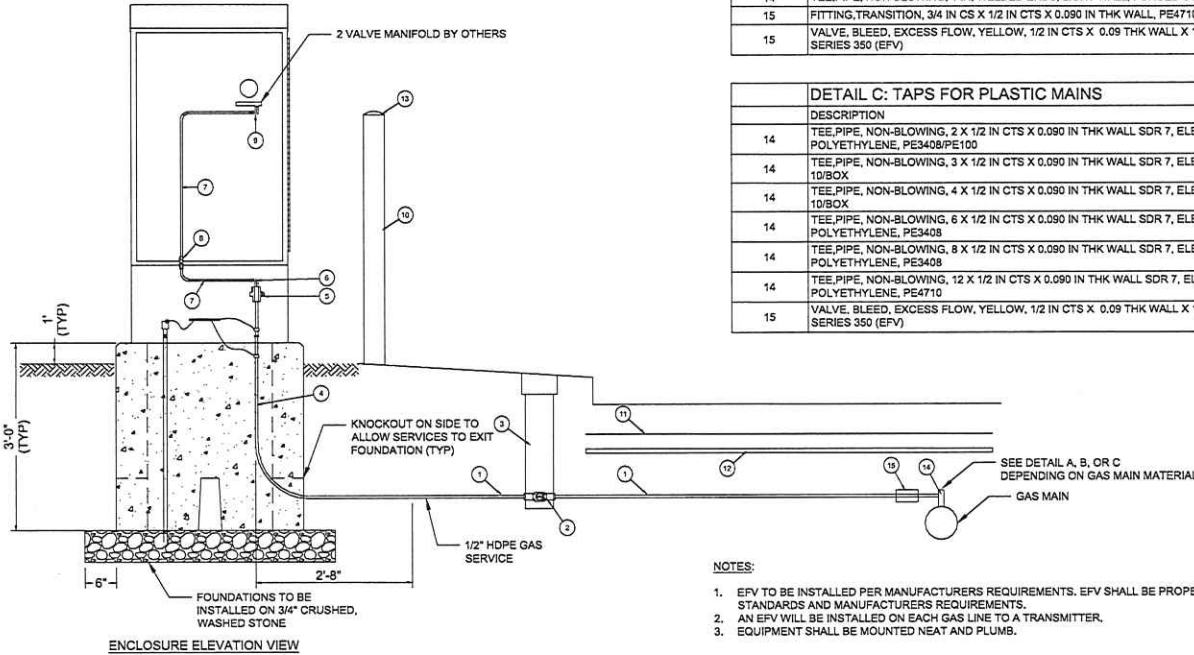
ITEM NO.	DESCRIPTION	PART NO.	QUANTITY
1	PIPE, 1/2 IN CTS X 0.090 IN THK WALL SDR 7, 5/8 IN OD, 500 FT LG COIL, POLYETHYLENE, PE3408/PE100	554022	20'
2	VALVE,BALL, FULL PORT, 1/2 IN CTS, SDR 7.0, PE 4710, BUTT FUSE, POLYETHYLENE, BLACK FINISH, REPLACED IN 561834	601132	1
3	CURB VALVE BOX 334 18X24 IN SHAFT LENGTH W NON-LOCKING COVER MAKED "GAS" WALL THICKNESS .125+-.015, FOR USE WITH 1/2-1-1/4" PERFECTION PSV PLASTIC BALL VALVE	557812	1
4	RISER ANODELESS 1/2 X 3/4 PERFECTION 77571 .090W PE 3408 CTS X NPT W/ 12 PIGTAIL	610786	1
5	VALVE, 3/4 IN, SS, THREADED, BALON, LS07592	580957	1
6	ELBOW, MALE 90 SWAGelok, 3/4 NPT X 3/8 TUBE SWAGelok SS-600-2-12 (NON-STOCK EVERSOURCE ITEM)	N/A	1
7	TUBING, 3/8 IN OD, 10 FT LG, 0.035 IN THK WALL, 316/316L SS, CAMBRIDGE VALVE & FITTING - SS-T6-S-035-20 - 20'	500931	6FT.
8	BULKHEAD UNION, 3/8" SWAGelok SS-600-61 (NON-STOCK EVERSOURCE ITEM)	N/A	1
9	ELBOW, MALE 90 SWAGelok, 1/2 NPT X 3/8 TUBE SWAGelok SS-600-2-6 (NON-STOCK EVERSOURCE ITEM)	N/A	1
10	POST, 4 IN X 6 FT, YELLOW, POWDER COATED, 125 LBS, CONCRETE, FOR METER PROTECTION	593751	4
11	TAPE, WARNING, MARKED BURIED GAS LINE, 400 M, (1312 FT.) ROLL, 6 IN., 6 MIL, POLYETHYLENE, YELLOW, LOCATABLE - RFID TAG EVERY 8 FT.	603277	20'
12	PLATE, RECTANGULAR, PROTECTION, 41 IN X 71 IN, HDPE, YELLOW, ANTISLIP BEVELED EDGE DRAIN HOLES, FOR OVERPIPE, CMA 44028102	610792	4
13	BOLLARD COVER, YELLOW, 4.5" X 52" LONG, HDPE, POST GUARD OR EQUAL (NON-STOCK EVERSOURCE ITEM)	N/A	4

DETAIL A: TAPS FOR CAST IRON MAINS			
ITEM NO.	DESCRIPTION	PART NO.	QUANTITY
14	FITTING,TEE, THREADED BRASS BASE SERVICE, 1-1/4 IN NPT X 1 CTS X 0.090 IN WALL, POLYETHYLENE BODY, PE-4710	560810	
14.1	FITTING,REDUCER, COUPLING, LYCOFT, 1 IN CTS X .099 IN X 1/2 IN CTS X .090 IN THK WALL, HDPE, CMA 21658092	610765	

DETAIL A1: SERVI-SEAL CLAMP			
ITEM NO.	DESCRIPTION	PART NO.	QUANTITY
	CLAMP,PIPE, SERVI-SEAL REPAIR, 3 IN DIA, 9 IN LG, W/ 1-1/4 IN ID OUTLET, FOR CAST IRON PIPE, FITTING, ID 11633	578017	
	CLAMP,PIPE, REPAIR, 4 IN CIP, SS, W/1-1/4 NPT TAP, FOR 4.74 - 5.14 IN PIPE	542984	
	CLAMP,PIPE, REPAIR, 6 IN CIP, SS, W/1-1/4 NPT TAP, FOR 6.84 - 7.24 IN PIPE	542982	
	CLAMP,PIPE, REPAIR, 8 IN IPS, SS, W/2 IN TAP, ALTERNATE IN 578014 (REQUIRES 2" X 1-1/4" REDUCING BUSHING)	578014	
	CLAMP,PIPE, FULL CIRCLE REPAIR,DOUBLE BAND, W/ 2 IN NPT OUTLET, 12.75 TO 13.26 IN OD, 304 SS, 10 IN LONG, STEEL NUTS & BOLTS, BUNA-N GASKET (REQUIRES 2" X 1-1/4" REDUCING BUSHING)	578016	

DETAIL B: TAPS FOR STEEL MAINS			
ITEM NO.	DESCRIPTION	PART NO.	QUANTITY
14 / 15	3/4"x1/2" UMAC 40056 SELF TAP WELD TEE IPS X CTS & 5/8" OD COMPRESSION ADAPTER OUTLET WITH SER400 EFV OR	N/A	
14	TEE,PIPE, NON-BLOWING, 1-1/4 IN TEE OUTLET X 1-1/4 IN MAIN, WELDED, 250 PSIG, W/ CI CAP, CMA 44788004	610059	
14	TEE,PIPE, NON-BLOWING, 1 IN, WELDED ENDS, LIGHT WALL, FORGED STEEL BODY, W/ CI CAP	560712	
15	FITTING,TRANSITION, 3/4 IN CS X 1/2 IN CTS X 0.090 IN THK WALL, PE4710 SDR 7, STEEL WELD X PLASTIC BUTT END	546257	
15	VALVE, BLEED, EXCESS FLOW, YELLOW, 1/2 IN CTS X 0.09 THK WALL X 12 IN LG, MODEL #P41, PLASTIC, PE4710, UMAC SERIES 350 (EFV)	592085	

DETAIL C: TAPS FOR PLASTIC MAINS			
ITEM NO.	DESCRIPTION	PART NO.	QUANTITY
14	TEE,PIPE, NON-BLOWING, 2 X 1/2 IN CTS X 0.090 IN THK WALL SDR 7, ELECTROFUSION X COMPRESSION ENDS, LIGHT WALL, POLYETHYLENE, PE3408/PE100	500866	
14	TEE,PIPE, NON-BLOWING, 3 X 1/2 IN CTS X 0.090 IN THK WALL SDR 7, ELECTROFUSION X COMPRESSION ENDS, HDPE, PE3408, 10"BOX	578017	
14	TEE,PIPE, NON-BLOWING, 4 X 1/2 IN CTS X 0.090 IN THK WALL SDR 7, ELECTROFUSION X COMPRESSION ENDS, HDPE, PE3408, 10"BOX	500867	
14	TEE,PIPE, NON-BLOWING, 6 X 1/2 IN CTS X 0.090 IN THK WALL SDR 7, ELECTROFUSION X COMPRESSION ENDS, POLYETHYLENE, PE3408	500869	1
14	TEE,PIPE, NON-BLOWING, 8 X 1/2 IN CTS X 0.090 IN THK WALL SDR 7, ELECTROFUSION X COMPRESSION ENDS, POLYETHYLENE, PE3408	578014	
14	TEE,PIPE, NON-BLOWING, 12 X 1/2 IN CTS X 0.090 IN THK WALL SDR 7, ELECTROFUSION X COMPRESSION ENDS, LIGHT WALL, POLYETHYLENE, PE4710	560847	
15	VALVE, BLEED, EXCESS FLOW, YELLOW, 1/2 IN CTS X 0.09 THK WALL X 12 IN LG, MODEL #P41, PLASTIC, PE4710, UMAC SERIES 350 (EFV)	592085	1



NOTES:

- EFV TO BE INSTALLED PER MANUFACTURERS REQUIREMENTS. EFV SHALL BE PROPERLY SIZED FOR APPLICATION PER EVERSOURCE STANDARDS AND MANUFACTURERS REQUIREMENTS.
- AN EFV WILL BE INSTALLED ON EACH GAS LINE TO A TRANSMITTER.
- EQUIPMENT SHALL BE MOUNTED NEAT AND PLUMB.

No.	Description	Date	Dw/Ck
2	CONSTRUCTION	5/3/2023	CHI
1	CONSTRUCTION	1/18/2023	CHI
0	CONSTRUCTION	1/12/2023	CHI

CONSTRUCTION

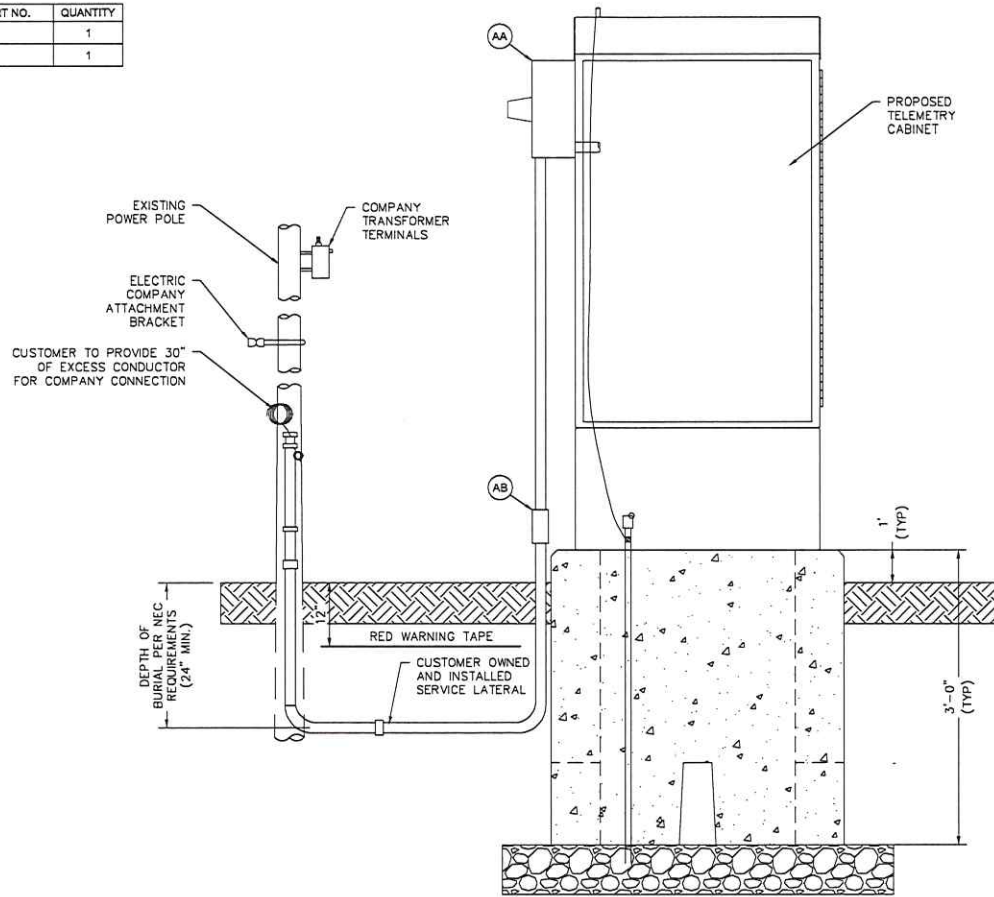


CHI ENGINEERING An **MIVIS** Company

BELLEVUE RD, AND BARRON CT., ANDOVER, MA			
PROJECT # 23GMSYSACT			
STANDARD TELEMETRY SERVICE DETAIL UP TO 98 PSIG MAOP			
SCALE: NTS ON 22"X34"		SHEET 05 OF 06	
Drawn by / Date	Checked by / Date	Drawing Number	Rev. No.
CHI, 10/24/2022	XXX XXX/XXXX	MA-LAW-TLM-23-518-05	2

FIELD VERIFY DIMENSIONS PRIOR TO PIPE FABRICATION

ITEM NO.	DESCRIPTION	PART NO.	QUANTITY
AA	ELECTRIC METER SOCKET PER ELECTRIC UTILITY REQUIREMENTS		1
AB	EXPANSION FITTING PER ELECTRIC UTILITY		1

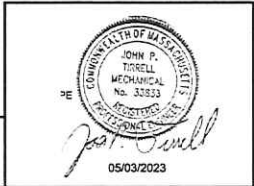


NOTES:

- SERVICE CONNECTION TO CABINET SHALL BE INSTALLED BY CONTRACTOR IN ACCORDANCE WITH NFPA 70, THE REQUIREMENT OF THE LOCAL UTILITY AND THE AUTHORITY HAVING JURISDICTION (AHJ).
- EQUIPMENT SHALL BE MOUNTED NEAT AND PLUMB.

No.	Description	Date	Dw/Ck
2	CONSTRUCTION	5/3/2023	CHI
1	CONSTRUCTION	1/18/2023	CHI
0	CONSTRUCTION	1/12/2023	CHI

CONSTRUCTION



CHI ENGINEERING An NIVIS Company

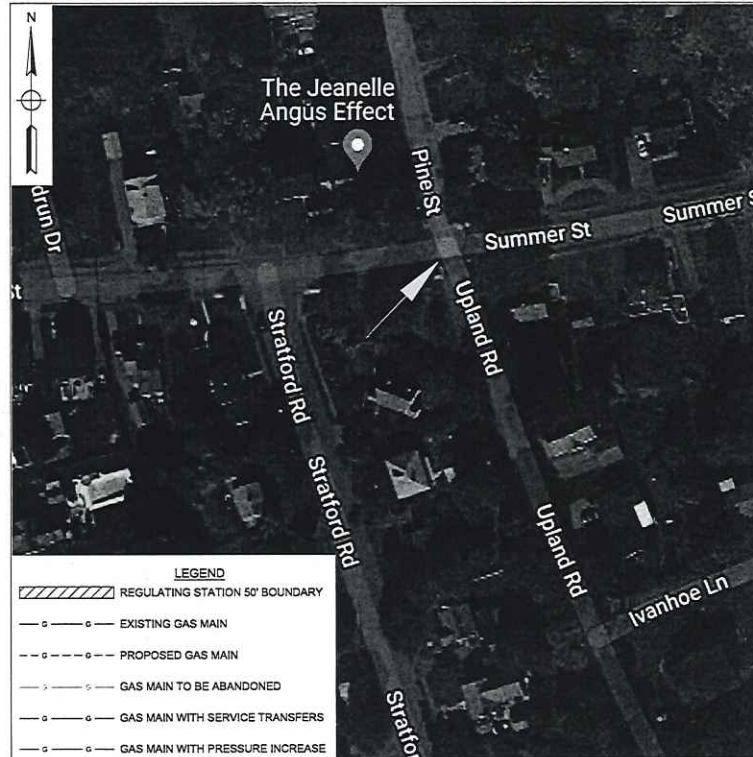
FIELD VERIFY DIMENSIONS PRIOR TO PIPE FABRICATION

BELLEVUE RD. AND BARRON CT., ANDOVER, MA			
PROJECT # 23GMSYSACT			
STANDARD NATIONAL GRID ELECTRICAL SERVICE			
SCALE: NTS ON 22"x34"		SHEET 06 OF 06	
Drawn by / Date	Checked by / Date	Drawing Number	Rev. No.
CHI, 12/13/2022	XXX XXXXXXXXX	MA-LAW-TLM-23-518-06	2

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TABLE OF CONTENTS

SHEET #	TITLE
1 OF 6	COVER SHEET
2 OF 6	NOTES & DETAILS
3 OF 6	LEGEND
4 OF 6	PROJECT LOCATION PLAN
5 OF 6	STANDARD TELEMETRY SERVICE DETAIL UP TO 98 PSIG MAOP
6 OF 6	STANDARD NATIONAL GRID ELECTRICAL SERVICE



LEGEND

	REGULATING STATION 50' BOUNDARY
	EXISTING GAS MAIN
	PROPOSED GAS MAIN
	GAS MAIN TO BE ABANDONED
	GAS MAIN WITH SERVICE TRANSFERS
	GAS MAIN WITH PRESSURE INCREASE

WORK SCOPE

PASTE EXCEL FOOTAGE TABLE HERE

UPLAND RD. AND SUMMER ST., ANDOVER, MA
PROJECT #23GMSYSACT

CONSTRUCTION



CHI ENGINEERING An NIVIS Company

FIELD VERIFY DIMENSIONS PRIOR TO PIPE FABRICATION

No.	Description	Date	Dw/CK
0	CONSTRUCTION	1/18/2023	CHI

Revision/Status

EVERSOURCE ENERGY

UPLAND RD. AND SUMMER ST., ANDOVER, MA

PROJECT # 23GMSYSACT

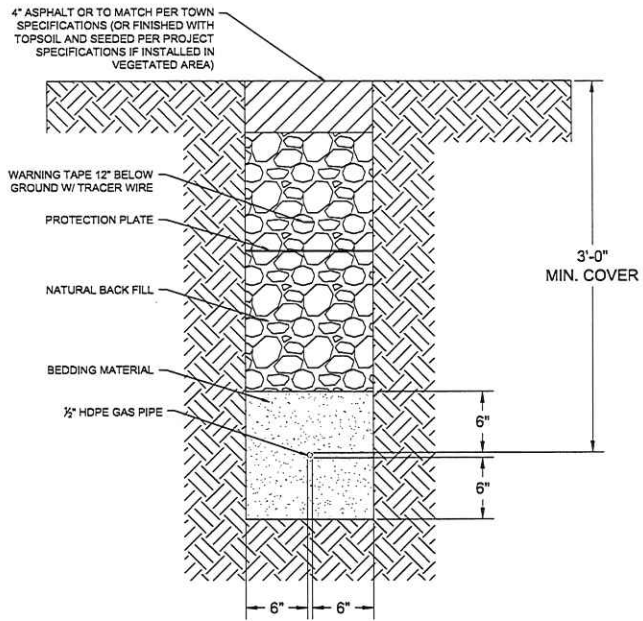
COVER SHEET

SCALE: NONE	SHEET 01 OF 06
Drawn by / Date	Checked by / Date
CHI, 12/13/2022	XXX / XXXXXXXX
Drawing Number	Rev. No.
MA-LAW-TLM-23-513-01	0

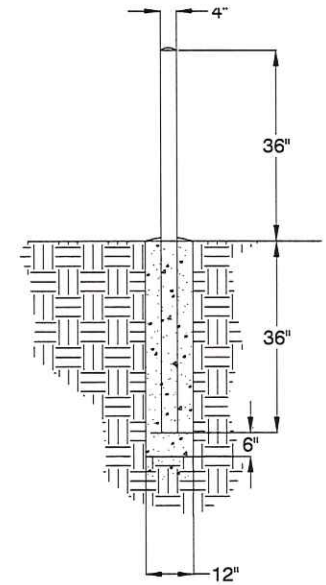
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GENERAL NOTES:

- A. IF ANY OF THE FOLLOWING OCCUR A DRAWING REVISION IS REQUIRED AND MUST BE APPROVED AND/OR STAMPED BY THE ENGINEER OF RECORD. CHANGES CAN BE APPROVED AND/OR STAMPED BY A PROJECT ENGINEER, BUT THE ENGINEER OF RECORD MUST BE INFORMED.
 - 1. IF THE TIE IN POINT MOVES TO A DIFFERENT SEGMENT OF PIPE THAN SHOWN.
 - 2. IF A CHANGE IN THE LOCATION OF VALVES IS REQUIRED.
 - 3. IF THERE IS ANY CHANGE TO WHAT IS SHOWN ON THE DRAWING WITHIN 50 FT OF A PRESSURE REGULATING STATION, DISTRICT REGULATOR, OR GATE STATION.
 - 4. IF A CHANGE IN PIPE SIZE, MATERIAL, OR WALL THICKNESS IS REQUIRED.
 - 5. ALTERNATE FITTINGS THAT ARE ACCEPTABLE FOR ANY TIE-IN DETAIL WILL BE CALLED OUT IN THE DRAWING. FITTING CHANGES NOT SHOWN AS ALTERNATIVES ON THE DRAWING WILL NEED TO FOLLOW THE DRAWING CHANGE PROCESS.
- B. CONSTRUCTION DRAWINGS, LOCATIONS OF EXISTING UTILITIES, UNDERGROUND STRUCTURES AND WORK LOCATIONS ARE BASED ON BEST AVAILABLE INFORMATION BUT HAVE NOT BEEN FIELD VERIFIED.
- C. ALL WORK, MATERIAL AND CONSTRUCTION SHALL BE PERFORMED AND COMPLETED IN COMPLIANCE WITH ALL PERMITS AND APPROVALS PER EVERSOURCE, LOCAL, STATE, OSHA AND FEDERAL REGULATIONS AND STANDARDS.
- D. ALL LIVE GAS WORK EXCEPT SERVICE SIZE TAPS, INCLUDING BUT NOT LIMITED TO TAPPING OF FITTINGS ON LIVE MAINS, STOPPING, MANIPULATING VALVE, ABANDONMENT, SHALL BE PERFORMED BY, OR AT THE DIRECTION AND UNDER THE DIRECT SUPERVISION OF EVERSOURCE GAS PERSONNEL AND IN ACCORDANCE WITH THE WRITTEN PROCEDURE. DRAWING CHANGES MAY ALSO REQUIRE A CHANGE TO THE PROCEDURE.
- E. EXCAVATOR IS REQUIRED TO PROTECT EXISTING UTILITIES, STRUCTURES, LANDSCAPES FEATURES, SIGNAGE, CURBS, ETC. CARE SHOULD BE TAKEN NOT TO DISTURB OR DAMAGE SUCH ITEMS. ROADWAY, SIDEWALKS, AND GRASS DISTURBED SHALL BE RESTORED TO THE SATISFACTION OF THE CITY OR TOWN. PLANT BEDS WILL BE RELOCATED TO THEIR EXISTING REGULAR LOCATION.
- F. ALL TRAFFIC CONTROL SHALL CONFORM TO THE LATEST EDITION OF THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), INCLUDING ALL REVISIONS AND ADDENDA. ALL TRAFFIC CONTROL DEVICES WILL BE SUPPLIED BY EXCAVATOR.
- G. EXISTING CONDITIONS SHOWN ARE BASED ON A SURVEY BY CHI ENGINEERING. EXISTING UTILITIES WERE COMPILED FROM EXISTING CONDITIONS IN THE FIELD AS WELL AS RECORD DRAWINGS OBTAINED FROM LOCAL UTILITIES.
- H. LOCATION OF UNDERGROUND UTILITIES IS APPROXIMATE AND IS NOT WARRANTED TO BE CORRECT.
- I. CONTRACTOR MUST NOTIFY DIG SAFE (811) AT LEAST 72 HOURS PRIOR TO THE START OF CONSTRUCTION.
- J. NEW PIPING SHALL BE PRESSURE TESTED AT 1.5 TIMES MAOP FOR A MINIMUM OF 1 HOUR. 150 PSIG IS THE MINIMUM TEST PRESSURE.
- K. ALL FIELD COATING SHALL BE PERFORMED PER EVERSOURCE SPECIFICATIONS.



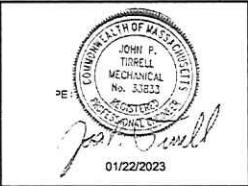
TYPICAL GAS TRENCH
NOT TO SCALE
(PROPOSED UTILITIES SHALL MAINTAIN MINIMUM 12" SEPARATION FROM EXISTING UTILITIES)



BOLLARD DETAIL
NOT TO SCALE
DOME TOP WITH CONCRETE
STANDARD STEEL PIPE FILLED WITH CONCRETE
PAINT EXPOSED SURFACES YELLOW
CONCRETE SLOPED AWAY FROM PIPE AT BASE

P:\EVERSOURCE\2023\023GMSYSACT\UPLAND RD AND SUMMER ST\UPLAND RD AND SUMMER ST.DWG

CONSTRUCTION



CHI ENGINEERING An **NIVS** Company

FIELD VERIFY DIMENSIONS PRIOR TO PIPE FABRICATION

No.	Description	Date	Dw/Ck
0	CONSTRUCTION	1/18/2023	CHI
Revision/Status			
UPLAND RD. AND SUMMER ST., ANDOVER, MA			
PROJECT # 23GMSYSACT			
NOTES & DETAILS			
SCALE: NONE		SHEET 02 OF 06	
Drawn By / Date	Checked by / Date	Drawing Number	
CHI, 12/13/2022	XXX XXX/XXX	MA-LAW-TLM-23-513-02	
			Rev. No. 0

DRAWING LEGEND

Gas Main Symbology	
REGULATING STATION 50' BOUNDARY	
EXISTING GAS MAIN	
PROPOSED GAS MAIN	
GAS MAIN TO BE ABANDONED	
GAS MAIN WITH SERVICE TRANSFERS	
GAS MAIN WITH PRESSURE INCREASE	
RIGHT-OF-WAY	
ELECTRIC	
WATER LINE	
SEWER LINE	
TELEPHONE	
DRAIN LINE	
FENCE LINE	
CONDUIT	
OVERHEAD WIRE	
DIGITIZED GAS LINE (SEE NOTE 11)	
DIGITIZED SEWER LINE (SEE NOTE 11)	
DIGITIZED WATER LINE (SEE NOTE 11)	
MAJOR CONTOUR LINE	
MINOR CONTOUR LINE	

Gas Main Material/Pressure Label References

MATERIAL CODES	
CS*	Coated Steel Gas Main
CI*	Cast Iron Gas Main
BS*	Bare Steel Gas Main
WI*	Wrought Iron Gas Main
PH*	High Density Polyethylene Gas Main
PM*	Medium Density Polyethylene Gas Main
PRESSURE CODES	
*LP	Low Pressure (<0.5 PSIG or 14" W.C.)
*IP	Intermediate Pressure (>2 PSIG ≤ 10 PSIG)
*MP	Medium Pressure (>10 PSIG ≤ 60 PSIG)
*HP	High Pressure (>60 PSIG)
MISCELLANEOUS CODES	
*-SER	Service
*-R	Riser
(TC)	Transmission Class
BND, FND.	Bound Found
D.H.	Drill Hole
DYL	Double Yellow Line
EP	Edge of Pavement
GRAN.	Granite
SBB	Sloped Bituminous Berm
SWL	Single White Line
T.O.D	Top of Debris
T.O.H	Top of Hood
VGC	Vertical Granite Curb

Gas Main Installation Method Label References

AT	Attached
BH	Bridge Hanger
BLGH	Building Hanger
DB	Directional Bore
IS	Inserted
OC	Open Cut
PB	Pneumatic Bore
PL	Plowed
RT	Roof Top
(E)	Existing
(P)	Proposed

Gas Facility Symbology

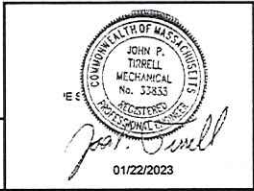
xx'GV	Gas Valve
xx'PV	Critical Gas Valve
	(Gate - GV, Plug - PV, PE Ball - BP, ST Ball - BV)
Ox'HVTT	High Volume Tapping Tee
Ox'SST	Pressure Control Fitting - ShortStopp Tee
Ox'SPH	Pressure Control Fitting - Spherical Tee
Ox'MF-BO	Pressure Control Fitting - Mueller Bottom-out
Ox'MF-SO	Pressure Control Fitting - Mueller Side-out
Ox'MF-FT	Pressure Control Fitting - Mueller Flange Tee
Rx'SS	Pressure Control Fitting - ShortStopp
Rx'MF	Pressure Control Fitting - Mueller Stopper
X'xx' POLYTAP	Polytapp Side Saddle Fitting
i	Transition
-	End Cap
o	Riser
+	Reducer
EM	Electronic Marker
FM	Flush-mounted Tracer Wire Station
PM	Post Pipeline Marker with Tracer Wire
T	Gas Main Marker without Tracer Wire
⊙	Regulator Station
⊠	Single Customer Regulator
⊚	Meter
⊙	Meter with Regulator
⊙	Test Point (Station)
+	Gas Service Tie-over
⊙	Gas Service Replacement
MCO	Meter Move Out
Swing Tie Symbology	
⊙	Telephone Manhole
⊙	Drain Manhole
⊙	Electric Manhole
⊙	Catch Basin
⊙	Sewer Manhole
⊙	Fire Hydrant
⊙	Utility Pole
⊙	Property Marker
⊙	Telephone Pedestal
⊙	Television Pedestal
⊙	Unknown Manhole
⊙	Water Box
⊙	Water Gate
⊙	Electric Pedestal
⊙	Iron Pin
⊙	Light Pole
■	INSIDE METER
●	OUTSIDE METER

NOTES:

- FIELD SURVEY PERFORMED BY J.C.M. & G.B.B. (DOUCET SURVEY) DURING NOVEMBER 2022 USING A TRIMBLE S6 TOTAL STATION AND A TRIMBLE R12 SURVEY GRADE GPS WITH A TRIMBLE TSC3 DATA COLLECTOR AND A TRIMBLE DINI DIGITAL AUTO LEVEL. TRAVERSE ADJUSTMENT BASED ON LEAST SQUARE ANALYSIS.
- HORIZONTAL DATUM BASED ON NAD83(2011) MASSACHUSETTS STATE PLANE MAINLAND COORDINATE ZONE (2001) DERIVED FROM REDUNDANT GPS OBSERVATIONS UTILIZING THE KEYNET GPS VRS NETWORK.
- VERTICAL DATUM IS BASED ON APPROXIMATE NAVD83(GEOD12A) (±2') DERIVED FROM REDUNDANT GPS OBSERVATIONS UTILIZING THE KEYNET GPS VRS NETWORK.
- THIS MAP WAS PREPARED FROM RECORD RESEARCH, OTHER MAPS, LIMITED FIELD MEASUREMENTS AND OTHER SOURCES. IT IS NOT TO BE CONSTRUED AS A PROPERTY / BOUNDARY SURVEY AND IS SUBJECT TO SUCH FACTS AS SAID SURVEYS MAY DISCLOSE.
- PROPER FIELD PROCEDURES WERE FOLLOWED IN ORDER TO GENERATE CONTOURS AT 1' INTERVALS. ANY MODIFICATION OF THIS INTERVAL WILL DIMINISH THE INTEGRITY OF THE DATA, AND DOUCET SURVEY, WILL NOT BE RESPONSIBLE FOR ANY SUCH ALTERATION PERFORMED BY THE USER.
- UNDERGROUND UTILITIES SHOWN HEREON ARE BASED ON OBSERVED PHYSICAL EVIDENCE AND PAINT MARKS FOUND ON-SITE.
- ALL UNDERGROUND UTILITIES (ELECTRIC, GAS, TEL, WATER, SEWER DRAIN SERVICES) ARE SHOWN IN SCHEMATIC FASHION, THEIR LOCATIONS ARE NOT PRECISE OR NECESSARILY ACCURATE. NO WORK WHATSOEVER SHALL BE UNDERTAKEN USING THIS PLAN TO LOCATE THE ABOVE SERVICES. CONSULT WITH THE PROPER AUTHORITIES CONCERNED WITH THE SUBJECT SERVICE LOCATIONS FOR INFORMATION REGARDING SUCH. CALL DIG-SAFE AT 1-888-DIG-SAFE.
- OVERALL APPROXIMATE ABUTTER LOT LINES AS SHOWN HEREON ARE BASED ON GIS DATA FROM THE 'BUREAU OF GEOGRAPHIC INFORMATION (MassGIS), COMMONWEALTH OF MASSACHUSETTS, EXECUTIVE OFFICE OF TECHNOLOGY AND SECURITY SERVICES', AND ARE IN THEIR ORIGINAL LOCATION.
- APPROXIMATE RIGHT-OF-WAY LINES ARE BASED UPON REFERENCE PLAN 1. NO VERIFICATION OR RESEARCH FURTHER THAN REFERENCE PLAN 1 HAS BEEN DONE TO DETERMINE THE RIGHT-OF-WAY.
- UTILITY INFORMATION PLOTTED ON THE DRAWING IS BASED SOLELY ON RECORD INFORMATION PROVIDED BY THE TOWN OF NORTH ANDOVER DEPARTMENT OF PUBLIC WORKS AND EVERSOURCE ENERGY.

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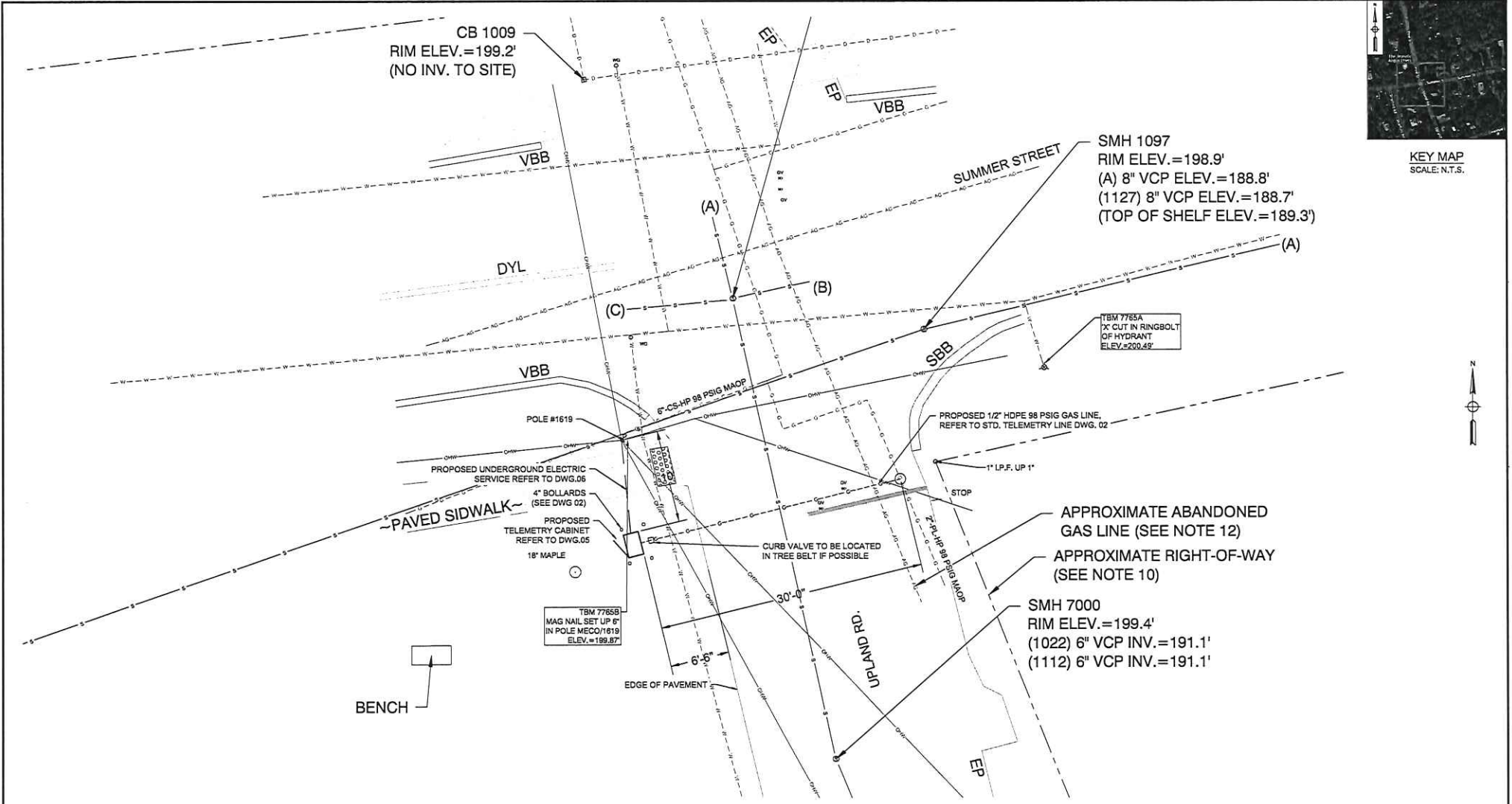
CONSTRUCTION



CHI ENGINEERING An MIVIS Company

FIELD VERIFY DIMENSIONS PRIOR TO PIPE FABRICATION

0	CONSTRUCTION	1/18/2023	CHI
No.	Description	Date	Dw/Ck
Revision/Status			
UPLAND RD. AND SUMMER ST., ANDOVER, MA			
PROJECT # 23GMSYSACT			
LEGEND			
SCALE: NONE		SHEET 03 OF 06	
Drawn by / Date	Checked by / Date	Drawing Number	Rev. No.
CHI, 12/13/2022	XXX XX/XX/XXXX	MA-LAW-TLM-23-513-03	0



KEY MAP
SCALE: N.T.S.

No.	Description	Date	Dw/Ck
1	CONSTRUCTION-CABINET LOCATION CHANGE	2/03/2023	CHI
0	CONSTRUCTION	1/18/2023	CHI

CONSTRUCTION



CHI ENGINEERING An NIVIS Company

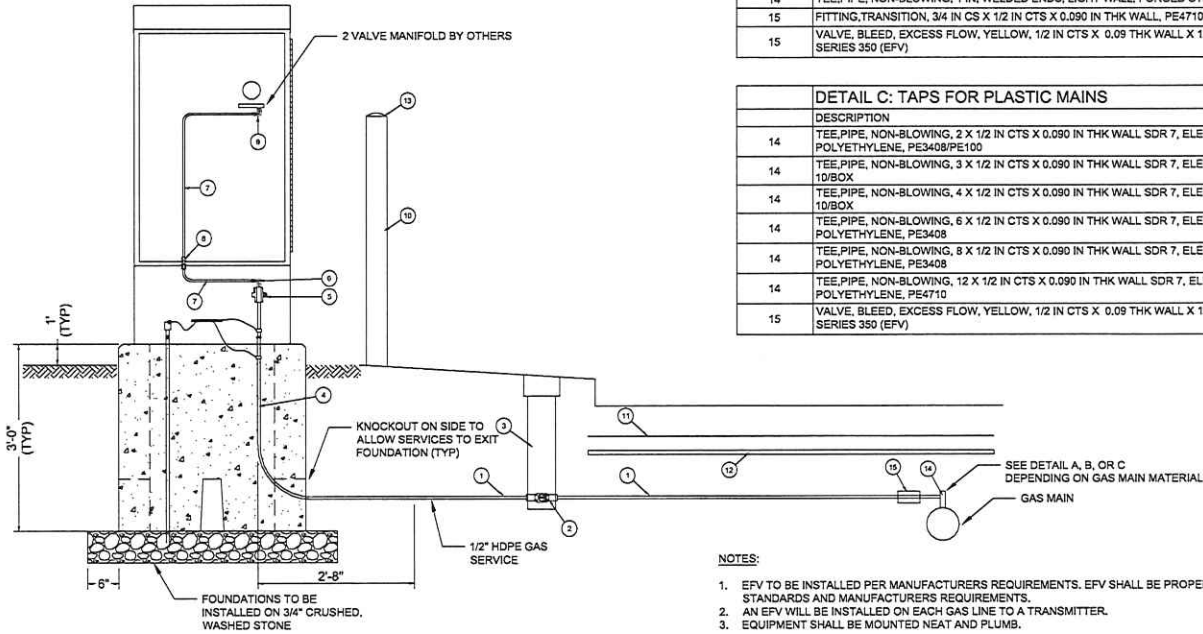
FIELD VERIFY DIMENSIONS
PRIOR TO PIPE FABRICATION

UPLAND RD. AND SUMMER ST., ANDOVER, MA			
PROJECT # 23GMSYSACT			
PROJECT LOCATION PLAN			
SCALE: 1"=5' ON 22"X34"		SHEET 04 OF 06	
Drawn by / Date	Checked by / Date	Drawing Number	Rev. No.
CHI, 12/13/2022	XXX XXX/XX/XXXX	MA-LAW-TLM-23-513-04	1

P:\ENGINEERING\2023\23GMSYSACT\23GMSYSACT-04.dwg 1/18/2023 8:33am

BILL OF MATERIAL

ITEM NO.	DESCRIPTION	PART NO.	QUANTITY
1	PIPE, 1/2 IN CTS X 0.090 IN THK WALL SDR 7, 5/8 IN OD, 500 FT LG COIL, POLYETHYLENE, PE3408/PE100	554022	30'
2	VALVE,BALL, FULL PORT, 1/2 IN CTS, SDR 7.0, PE 4710, BUTT FUSE, POLYETHYLENE, BLACK FINISH, REPLACED IN 561834	601132	1
3	CURB VALVE BOX 334 18X24 IN SHAFT LENGTH W NON-LOCKING COVER MAKED "GAS" WALL THICKNESS .125+-015, FOR USE WITH 1/2+1-1/4" PERFECTION PSV PLASTIC BALL VALVE	557812	1
4	RISER ANODELESS 1/2 X 3/4 PERFECTION 77571 .090W PE 3408 CTS X NPT W/ 12 PIGTAIL	610786	1
5	VALVE, 3/4 IN, SS, THREADED, BALON, LS07592	580957	1
6	ELBOW, MALE 90 SWAGelok, 3/4 NPT X 3/8 TUBE SWAGelok SS-600-2-12 (NON-STOCK EVERSOURCE ITEM)	N/A	1
7	TUBING, 3/8 IN OD, 10 FT LG, 0.035 IN THK WALL, 316/316L SS, CAMBRIDGE VALVE & FITTING - SS-T6-S-035-20 - 20'	500931	6FT.
8	BULKHEAD UNION, 3/8" SWAGelok SS-600-61 (NON-STOCK EVERSOURCE ITEM)	N/A	1
9	ELBOW, MALE 90 SWAGelok, 1/2 NPT X 3/8 TUBE SWAGelok SS-600-2-8 (NON-STOCK EVERSOURCE ITEM)	N/A	1
10	POST, 4 IN X 6 FT, YELLOW, POWDER COATED, 125 LBS, CONCRETE, FOR METER PROTECTION	593751	4
11	TAPE,WARNING, MARKED BURIED GAS LINE, 400 M. (1312 FT.) ROLL, 6 IN., 6 MIL. POLYETHYLENE, YELLOW, LOCATABLE - RFID TAG EVERY 8 FT.	603277	30'
12	PLATE, RECTANGULAR, PROTECTION, 41 IN X 71 IN, HDPE, YELLOW, ANTISLIP BEVELED EDGE DRAIN HOLES, FOR OVERPIPE, CMA 44028102	610792	6
13	BOLLARD COVER, YELLOW, 4.5" X 52" LONG, HDPE, POST GUARD OR EQUAL (NON-STOCK EVERSOURCE ITEM)	N/A	4



ITEM NO.	DESCRIPTION	PART NO.	QUANTITY
14	FITTING,TEE, THREADED BRASS BASE SERVICE, 1-1/4 IN NPT X 1 CTS X 0.090 IN WALL, POLYETHYLENE BODY, PE-4710	560810	
14.1	FITTING,REDUCER, COUPLING, LYCOFIT, 1 IN CTS X .099 IN X 1/2 IN CTS X .090 IN THK WALL, HDPE, CMA 21658092	610765	

ITEM NO.	DESCRIPTION	PART NO.	QUANTITY
14	CLAMP,PIPE, SERVI-SEAL REPAIR, 3 IN DIA, 9 IN LG, W/ 1-1/4 IN ID OUTLET, FOR CAST IRON PIPE, FITTING, ID 11633	578017	
14	CLAMP,PIPE, REPAIR, 4 IN CIP, SS, W/1-1/4 NPT TAP, FOR 4.74 - 5.14 IN PIPE	542984	
14	CLAMP,PIPE, REPAIR, 6 IN CIP, SS, W/1-1/4 NPT TAP, FOR 6.84 - 7.24 IN PIPE	542982	
14	CLAMP,PIPE, REPAIR, 8 IN IPS, SS, W/2 IN TAP, ALTERNATE IN 578014 (REQUIRES 2" X 1-1/4" REDUCING BUSHING)	578014	
14	CLAMP,PIPE, FULL CIRCLE REPAIR,DOUBLE BAND, W/ 2 IN NPT OUTLET, 12.75 TO 13.26 IN OD, 304 SS, 10 IN LONG, STEEL NUTS & BOLTS, BUNA-N GASKET (REQUIRES 2" X 1-1/4" REDUCING BUSHING)	578016	

ITEM NO.	DESCRIPTION	PART NO.	QUANTITY
14 / 15	3/4"x1/2" UMAC 40056 SELF TAP WELD TEE IPS X CTS & 5/8" OD COMPRESSION ADAPTER OUTLET WITH SER400 EFV	N/A	
	OR		
14	TEE,PIPE, NON-BLOWING, 1-1/4 IN TEE OUTLET X 1-1/4 IN MAIN, WELDED, 250 PSIG, W/ CI CAP, CMA 44788004	610059	
14	TEE,PIPE, NON-BLOWING, 1 IN, WELDED ENDS, LIGHT WALL, FORGED STEEL BODY, W/ CI CAP	560712	
15	FITTING,TRANSITION, 3/4 IN CS X 1/2 IN CTS X 0.090 IN THK WALL, PE4710 SDR 7, STEEL WELD X PLASTIC BUTT END	546257	
15	VALVE, BLEED, EXCESS FLOW, YELLOW, 1/2 IN CTS X 0.09 THK WALL X 12 IN LG, MODEL #P41, PLASTIC, PE4710, UMAC SERIES 350 (EFV)	592085	

DESCRIPTION	PART NO.	QUANTITY
14 TEE,PIPE, NON-BLOWING, 2 X 1/2 IN CTS X 0.090 IN THK WALL SDR 7, ELECTROFUSION X COMPRESSION ENDS, LIGHT WALL, POLYETHYLENE, PE3408/PE100	500866	1
14 TEE,PIPE, NON-BLOWING, 3 X 1/2 IN CTS X 0.090 IN THK WALL SDR 7, ELECTROFUSION X COMPRESSION ENDS, HDPE, PE3408, 10/BOX	578017	
14 TEE,PIPE, NON-BLOWING, 4 X 1/2 IN CTS X 0.090 IN THK WALL SDR 7, ELECTROFUSION X COMPRESSION ENDS, HDPE, PE3408, 10/BOX	500867	
14 TEE,PIPE, NON-BLOWING, 6 X 1/2 IN CTS X 0.090 IN THK WALL SDR 7, ELECTROFUSION X COMPRESSION ENDS, POLYETHYLENE, PE3408	500869	
14 TEE,PIPE, NON-BLOWING, 8 X 1/2 IN CTS X 0.090 IN THK WALL SDR 7, ELECTROFUSION X COMPRESSION ENDS, POLYETHYLENE, PE3408	578014	
14 TEE,PIPE, NON-BLOWING, 12 X 1/2 IN CTS X 0.090 IN THK WALL SDR 7, ELECTROFUSION X COMPRESSION ENDS, LIGHT WALL, POLYETHYLENE, PE4710	560847	
15 VALVE, BLEED, EXCESS FLOW, YELLOW, 1/2 IN CTS X 0.09 THK WALL X 12 IN LG, MODEL #P41, PLASTIC, PE4710, UMAC SERIES 350 (EFV)	592085	1

- NOTES:**
- EFV TO BE INSTALLED PER MANUFACTURERS REQUIREMENTS. EFV SHALL BE PROPERLY SIZED FOR APPLICATION PER EVERSOURCE STANDARDS AND MANUFACTURERS REQUIREMENTS.
 - AN EFV WILL BE INSTALLED ON EACH GAS LINE TO A TRANSMITTER.
 - EQUIPMENT SHALL BE MOUNTED NEAT AND PLUMB.

No.	Description	Date	Dw/CK
1	CONSTRUCTION-QUANTITY CHANGE	2/03/2023	CHI
0	CONSTRUCTION	1/18/2023	CHI

CONSTRUCTION



CHI ENGINEERING An **NIVIS** Company

UPLAND RD. AND SUMMER ST., ANDOVER, MA		
PROJECT # 23GMSYSACT		
STANDARD TELEMETRY SERVICE DETAIL UP TO 98 PSIG MAOP		
SCALE: NTS ON 22"X34"		
Drawn by / Date	Checked by / Date	Drawing Number
CHI, 10/24/2022	XXX XX/XX/XXXX	MA-LAW-TLM-23-513-05
FIELD VERIFY DIMENSIONS PRIOR TO PIPE FABRICATION		Rev. No. 1

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TABLE OF CONTENTS

SHEET #	TITLE
1 OF 6	COVER SHEET
2 OF 6	NOTES & DETAILS
3 OF 6	LEGEND
4 OF 6	PROJECT LOCATION PLAN
5 OF 6	STANDARD TELEMTRY SERVICE DETAIL UP TO 98 PSIG MAOP
6 OF 6	STANDARD NATIONAL GRID ELECTRICAL SERVICE

EVERSOURCE ENERGY



WORK SCOPE

PASTE EXCEL FOOTAGE TABLE HERE

ELM ST. AND FARNSWORTH RD., ANDOVER, MA
PROJECT #23GMSYSACT

CONSTRUCTION



CHI ENGINEERING An NIVIS Company

FIELD VERIFY DIMENSIONS PRIOR TO PIPE FABRICATION

No.	Description	Date	Dw/Ck
2	CONSTRUCTION	5/3/2023	CHI
1	CONSTRUCTION	1/18/2023	CHI
0	CONSTRUCTION	1/12/2023	CHI

Revision/Status

EVERSOURCE ENERGY

ELM ST. AND FARNSWORTH RD., ANDOVER, MA

PROJECT # 23GMSYSACT

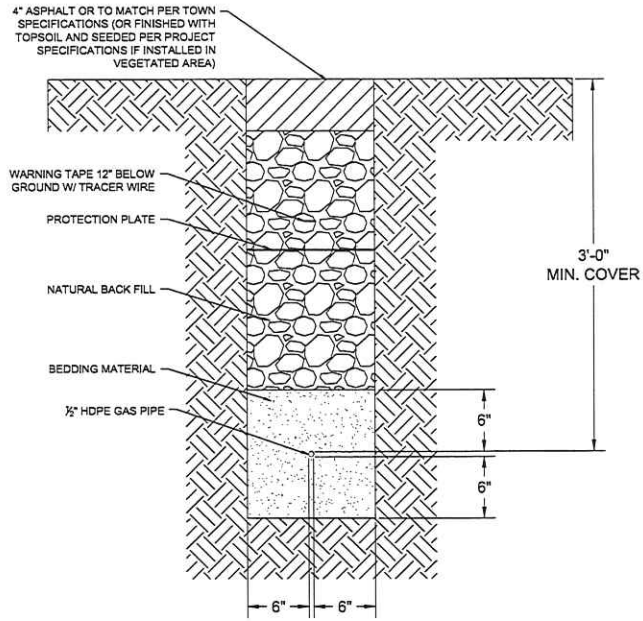
COVER SHEET

SCALE: NONE SHEET 01 OF 06

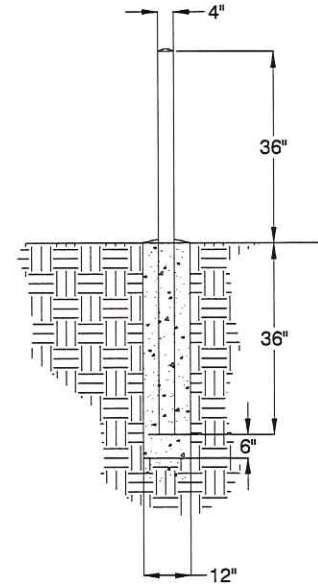
Drawn by / Date	Checked by / Date	Drawing Number	Rev. No.
CHI, 12/13/2022	XXX / XXX/XXXX	MA-LAW-TLM-23-515-01	2

GENERAL NOTES:

- A. IF ANY OF THE FOLLOWING OCCUR A DRAWING REVISION IS REQUIRED AND MUST BE APPROVED AND/OR STAMPED BY THE ENGINEER OF RECORD. CHANGES CAN BE APPROVED AND/OR STAMPED BY A PROJECT ENGINEER, BUT THE ENGINEER OF RECORD MUST BE INFORMED.
 - 1. IF THE TIE IN POINT MOVES TO A DIFFERENT SEGMENT OF PIPE THAN SHOWN.
 - 2. IF A CHANGE IN THE LOCATION OF VALVES IS REQUIRED.
 - 3. IF THERE IS ANY CHANGE TO WHAT IS SHOWN ON THE DRAWING WITHIN 50 FT OF A PRESSURE REGULATING STATION, DISTRICT REGULATOR, OR GATE STATION.
 - 4. IF A CHANGE IN PIPE SIZE, MATERIAL, OR WALL THICKNESS IS REQUIRED.
 - 5. ALTERNATE FITTINGS THAT ARE ACCEPTABLE FOR ANY TIE-IN DETAIL WILL BE CALLED OUT IN THE DRAWING. FITTING CHANGES NOT SHOWN AS ALTERNATIVES ON THE DRAWING WILL NEED TO FOLLOW THE DRAWING CHANGE PROCESS.
- B. CONSTRUCTION DRAWINGS, LOCATIONS OF EXISTING UTILITIES, UNDERGROUND STRUCTURES AND WORK LOCATIONS ARE BASED ON BEST AVAILABLE INFORMATION BUT HAVE NOT BEEN FIELD VERIFIED.
- C. ALL WORK, MATERIAL AND CONSTRUCTION SHALL BE PERFORMED AND COMPLETED IN COMPLIANCE WITH ALL PERMITS AND APPROVALS PER EVERSOURCE, LOCAL, STATE, OSHA AND FEDERAL REGULATIONS AND STANDARDS.
- D. ALL LIVE GAS WORK EXCEPT SERVICE SIZE TAPS, INCLUDING BUT NOT LIMITED TO TAPPING OF FITTINGS ON LIVE MAINS, STOPPING, MANIPULATING VALVE, ABANDONMENT, SHALL BE PERFORMED BY, OR AT THE DIRECTION AND UNDER THE DIRECT SUPERVISION OF EVERSOURCE GAS PERSONNEL AND IN ACCORDANCE WITH THE WRITTEN PROCEDURE. DRAWING CHANGES MAY ALSO REQUIRE A CHANGE TO THE PROCEDURE.
- E. EXCAVATOR IS REQUIRED TO PROTECT EXISTING UTILITIES, STRUCTURES, LANDSCAPES FEATURES, SIGNAGE, CURBS, ETC. CARE SHOULD BE TAKEN NOT TO DISTURB OR DAMAGE SUCH ITEMS. ROADWAY, SIDEWALKS, AND GRASS DISTURBED SHALL BE RESTORED TO THE SATISFACTION OF THE CITY OR TOWN. PLANT BEDS WILL BE RELOCATED TO THEIR EXISTING REGULAR LOCATION.
- F. ALL TRAFFIC CONTROL SHALL CONFORM TO THE LATEST EDITION OF THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), INCLUDING ALL REVISIONS AND ADDENDA. ALL TRAFFIC CONTROL DEVICES WILL BE SUPPLIED BY EXCAVATOR.
- G. EXISTING CONDITIONS SHOWN ARE BASED ON A SURVEY BY CHI ENGINEERING. EXISTING UTILITIES WERE COMPILED FROM EXISTING CONDITIONS IN THE FIELD AS WELL AS RECORD DRAWINGS OBTAINED FROM LOCAL UTILITIES.
- H. LOCATION OF UNDERGROUND UTILITIES IS APPROXIMATE AND IS NOT WARRANTED TO BE CORRECT.
- I. CONTRACTOR MUST NOTIFY DIG SAFE (811) AT LEAST 72 HOURS PRIOR TO THE START OF CONSTRUCTION.
- J. NEW PIPING SHALL BE PRESSURE TESTED AT 1.5 TIMES MAOP FOR A MINIMUM OF 1 HOUR. 150 PSIG IS THE MINIMUM TEST PRESSURE.
- K. ALL FIELD COATING SHALL BE PERFORMED PER EVERSOURCE SPECIFICATIONS.



TYPICAL GAS TRENCH
NOT TO SCALE
(PROPOSED UTILITIES SHALL MAINTAIN MINIMUM 12" SEPARATION FROM EXISTING UTILITIES)



BOLLARD DETAIL
NOT TO SCALE
DOME TOP WITH CONCRETE
STANDARD STEEL PIPE FILLED WITH CONCRETE
PAINT EXPOSED SURFACES YELLOW
CONCRETE SLOPED AWAY FROM PIPE AT BASE

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CONSTRUCTION



CHI ENGINEERING An **IVV** Company

FIELD VERIFY DIMENSIONS PRIOR TO PIPE FABRICATION

No.	Description	Date	Dw/Ck
2	CONSTRUCTION	5/3/2023	CHI
1	CONSTRUCTION	1/18/2023	CHI
0	CONSTRUCTION	1/12/2023	CHI

Revision/Status

ELM ST. AND FARNSWORTH RD., ANDOVER, MA
PROJECT # 23GMSYSACT
NOTES & DETAILS

SCALE: NONE SHEET 02 OF 06

Drawn by / Date	Checked by / Date	Drawing Number	Rev. No.
CHI, 12/13/2022	XXX XX/XX/XXXX	MA-LAW-TLM-23-515-02	2

DRAWING LEGEND

Gas Main Symbology	
REGULATING STATION 50' BOUNDARY	
EXISTING GAS MAIN	
PROPOSED GAS MAIN	
GAS MAIN TO BE ABANDONED	
GAS MAIN WITH SERVICE TRANSFERS	
GAS MAIN WITH PRESSURE INCREASE	
RIGHT-OF-WAY	
ELECTRIC	
WATER LINE	
SEWER LINE	
TELEPHONE	
DRAIN LINE	
FENCE LINE	
CONDUIT	
OVERHEAD WIRE	
DIGITIZED GAS LINE (SEE NOTE 11)	
DIGITIZED SEWER LINE (SEE NOTE 11)	
DIGITIZED WATER LINE (SEE NOTE 11)	
MAJOR CONTOUR LINE	
MINOR CONTOUR LINE	

Gas Main Material/Pressure Label References

MATERIAL CODES	
CS*	Coated Steel Gas Main
CJ*	Cast Iron Gas Main
BS*	Bare Steel Gas Main
WI*	Wrought Iron Gas Main
PH*	High Density Polyethylene Gas Main
PM*	Medium Density Polyethylene Gas Main
PRESSURE CODES	
*LP	Low Pressure (<0.5 PSIG or 14" W.C.)
*IP	Intermediate Pressure (>2 PSIG ≤ 10 PSIG)
*MP	Medium Pressure (>10 PSIG ≤ 60 PSIG)
*HP	High Pressure (>60 PSIG)

MISCELLANEOUS CODES

*-SER	Service
*-R	Riser
(TC)	Transmission Class
BND. FND.	Bound Found
D.H.	Drill Hole
DYL	Double Yellow Line
EP	Edge of Pavement
GRAN.	Granite
SBB	Sloped Bituminous Berm
SWL	Single White Line
T.O.D	Top of Debris
T.O.H	Top of Hood
VGC	Vertical Granite Curb

Gas Main Installation Method Label References

AT	Attached
BH	Building Hanger
BLGH	Building Hanger
DB	Directional Bore
IS	Inserted
OC	Open Cut
PB	Pneumatic Bore
PL	Plowed
RT	Roof Top
(E)	Existing
(P)	Proposed

Gas Facility Symbology

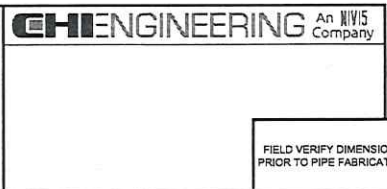
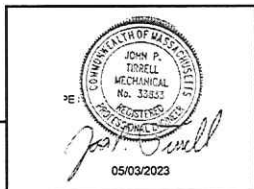
∞ x'GV	Gas Valve
∞ x'PV	Critical Gas Valve
	(Gate - GV, Plug - PV, PE Ball - BP, ST Ball - BV)
Ox'HVTT	High Volume Tapping Tee
Ox'SST	Pressure Control Fitting - ShortStop Tee
Ox'SPH	Pressure Control Fitting - Spherical Tee
Ox'MF-BO	Pressure Control Fitting - Mueller Bottom-out
Ox'MF-SO	Pressure Control Fitting - Mueller Side-out
Ox'MF-FT	Pressure Control Fitting - Mueller Flange Tee
∩ x'SS	Pressure Control Fitting - ShortStop
∩ x'MF	Pressure Control Fitting - Mueller Stopper
X x x' POLYTAP	Polytapp Side Saddle Fitting
∩	Transition
∩	End Cap
∩	Riser
∩	Reducer
∩	Electronic Marker
∩	Flush-mounted Tracer Wire Station
∩	Post Pipeline Marker with Tracer Wire
∩	Gas Main Marker without Tracer Wire
∩	Test Well
∩	Regulator Station
∩	Single Customer Regulator
∩	Meter
∩	Meter with Regulator
∩	Test Point (Station)
∩	Gas Service Tie-over
∩	Gas Service Replacement
∩	Meter Move Out
Swing Tie Symbology	
∩	Telephone Manhole
∩	Drain Manhole
∩	Electric Manhole
∩	Catch Basin
∩	Sewer Manhole
∩	Fire Hydrant
∩	Utility Pole
∩	Property Marker
∩	Telephone Pedestal
∩	Television Pedestal
∩	Unknown Manhole
∩	Water Box
∩	Water Gate
∩	Electric Pedestal
∩	Iron Pin
∩	Light Pole
■	INSIDE METER
●	OUTSIDE METER

NOTES:

- FIELD SURVEY PERFORMED BY J.C.M. & G.B.S. (DOUCET SURVEY) DURING NOVEMBER 2022 USING A TRIMBLE S6 TOTAL STATION AND A TRIMBLE R12 SURVEY GRADE GPS WITH A TRIMBLE T5C3 DATA COLLECTOR AND A TRIMBLE DNI DIGITAL AUTO LEVEL. TRAVERSE ADJUSTMENT BASED ON LEAST SQUARE ANALYSIS.
- HORIZONTAL DATUM BASED ON NAD83(2011) MASSACHUSETTS STATE PLANE MAINLAND COORDINATE ZONE (2001) DERIVED FROM REDUNDANT GPS OBSERVATIONS UTILIZING THE KEYNET GPS VRS NETWORK.
- VERTICAL DATUM IS BASED ON APPROXIMATE NAVD83(GEOD12A) (±2') DERIVED FROM REDUNDANT GPS OBSERVATIONS UTILIZING THE KEYNET GPS VRS NETWORK.
- THIS MAP WAS PREPARED FROM RECORD RESEARCH, OTHER MAPS, LIMITED FIELD MEASUREMENTS AND OTHER SOURCES. IT IS NOT TO BE CONSTRUED AS A PROPERTY / BOUNDARY SURVEY AND IS SUBJECT TO SUCH FACTS AS SAID SURVEYS MAY DISCLOSE.
- PROPER FIELD PROCEDURES WERE FOLLOWED IN ORDER TO GENERATE CONTOURS AT 1' INTERVALS. ANY MODIFICATION OF THIS INTERVAL WILL DIMINISH THE INTEGRITY OF THE DATA, AND DOUCET SURVEY, WILL NOT BE RESPONSIBLE FOR ANY SUCH ALTERATION PERFORMED BY THE USER.
- UNDERGROUND UTILITIES SHOWN HEREON ARE BASED ON OBSERVED PHYSICAL EVIDENCE AND PAINT MARKS FOUND ON-SITE.
- ALL UNDERGROUND UTILITIES (ELECTRIC, GAS, TEL, WATER, SEWER DRAIN SERVICES) ARE SHOWN IN SCHEMATIC FASHION, THEIR LOCATIONS ARE NOT PRECISE OR NECESSARILY ACCURATE. NO WORK WHATSOEVER SHALL BE UNDERTAKEN USING THIS PLAN TO LOCATE THE ABOVE SERVICES. CONSULT WITH THE PROPER AUTHORITIES CONCERNED WITH THE SUBJECT SERVICE LOCATIONS FOR INFORMATION REGARDING SUCH. CALL DIG-SAFE AT 1-888-DIG-SAFE.
- OVERALL APPROXIMATE ABUTTER LOT LINES AS SHOWN HEREON ARE BASED ON GIS DATA FROM THE 'BUREAU OF GEOGRAPHIC INFORMATION (MassGIS), COMMONWEALTH OF MASSACHUSETTS, EXECUTIVE OFFICE OF TECHNOLOGY AND SECURITY SERVICES', AND ARE IN THEIR ORIGINAL LOCATION.
- APPROXIMATE RIGHT-OF-WAY LINES ARE BASED UPON REFERENCE PLAN 1. NO VERIFICATION OR RESEARCH FURTHER THAN REFERENCE PLAN 1 HAS BEEN DONE TO DETERMINE THE RIGHT-OF-WAY.
- UTILITY INFORMATION PLOTTED ON THE DRAWING IS BASED SOLELY ON RECORD INFORMATION PROVIDED BY THE TOWN OF NORTH ANDOVER DEPARTMENT OF PUBLIC WORKS AND EVERSOURCE ENERGY.

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CONSTRUCTION

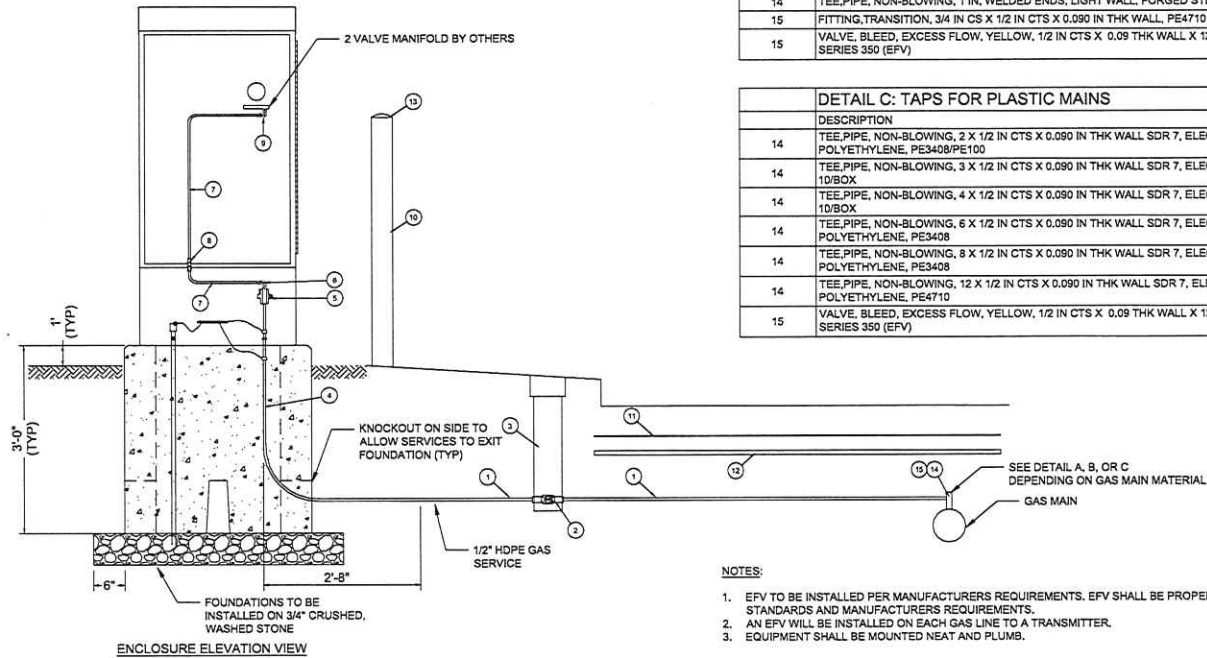


FIELD VERIFY DIMENSIONS PRIOR TO PIPE FABRICATION

2	CONSTRUCTION	5/3/2023	CHI
1	CONSTRUCTION	1/18/2023	CHI
0	CONSTRUCTION	1/12/2023	CHI
No.	Description	Date	Dw/Ck
Revision/Status			
ELM ST. AND FARNSWORTH RD., ANDOVER, MA			
PROJECT # 23GMSYSACT			
LEGEND			
SCALE: NONE		SHEET 03 OF 06	
Drawn by / Date	Checked by / Date	Drawing Number	Rev. No.
CHI, 12/13/2022	XXX XX/XX/XXXX	MA-LAW-TLM-23-515-03	2

BILL OF MATERIAL

ITEM NO.	DESCRIPTION	PART NO.	QUANTITY
1	PIPE, 1/2 IN CTS X 0.090 IN THK WALL SDR 7, 5/8 IN OD, 500 FT LG COIL, POLYETHYLENE, PE3408/PE100	554022	20'
2	VALVE,BALL, FULL PORT, 1/2 IN CTS, SDR 7.0, PE 4710, BUTT FUSE, POLYETHYLENE, BLACK FINISH, REPLACED IN 561834	601132	1
3	CURB VALVE BOX 334 18X24 IN SHAFT LENGTH W NON-LOCKING COVER MAKED "GAS" WALL THICKNESS .125+-.015, FOR USE WITH 1/2-1-1/4" PERFECTION PSV PLASTIC BALL VALVE	557812	1
4	RISER ANODELESS 1/2 X 3/4 PERFECTION 77571 .090W PE 3408 CTS X NPT W/ 12 PIGTAIL	610786	1
5	VALVE, 3/4 IN, SS, THREADED, BALON, LS07592	580957	1
6	ELBOW, MALE 90 SWAGELOK, 3/4 NPT X 3/8 TUBE SWAGELOK SS-600-2-12 (NON-STOCK EVERSOURCE ITEM)	N/A	1
7	TUBING, 3/8 IN OD, 10 FT LG, 0.035 IN THK WALL, 318/316L SS, CAMBRIDGE VALVE & FITTING - SS-T6-S-035-20 - 20'	500931	6FT.
8	BULKHEAD UNION, 3/8" SWAGELOK SS-600-61 (NON-STOCK EVERSOURCE ITEM)	N/A	1
9	ELBOW, MALE 90 SWAGELOK, 1/2 NPT X 3/8 TUBE SWAGELOK SS-600-2-8 (NON-STOCK EVERSOURCE ITEM)	N/A	1
10	POST, 4 IN X 6 FT, YELLOW, POWDER COATED, 125 LBS, CONCRETE, FOR METER PROTECTION	593751	4
11	TAPE,WARNING, MARKED BURIED GAS LINE, 400 M. (1312 FT.) ROLL, 6 IN., 6 MIL., POLYETHYLENE, YELLOW, LOCATABLE - RFID TAG EVERY 8 FT.	603277	20'
12	PLATE, RECTANGULAR, PROTECTION, 41 IN X 71 IN, HDPE, YELLOW, ANTISLIP BEVELED EDGE DRAIN HOLES, FOR OVERPIPE, CMA 44028102	610792	4
13	BOLLARD COVER, YELLOW, 4.5" X 52" LONG, HDPE, POST GUARD OR EQUAL (NON-STOCK EVERSOURCE ITEM)	N/A	4



DETAIL A: TAPS FOR CAST IRON MAINS

ITEM NO.	DESCRIPTION	PART NO.	QUANTITY
14	FITTING,TEE, THREADED BRASS BASE SERVICE, 1-1/4 IN NPT X 1 CTS X 0.090 IN WALL, POLYETHYLENE BODY, PE4710	560810	
14.1	FITTING,REDUCER, COUPLING, LYCOFT, 1 IN CTS X .099 IN X 1/2 IN CTS X .090 IN THK WALL, HDPE, CMA 21658092	610785	

DETAIL A1: SERVI-SEAL CLAMP

ITEM NO.	DESCRIPTION	PART NO.	QUANTITY
	CLAMP,PIPE, SERVI-SEAL REPAIR, 3 IN DIA, 9 IN LG, W/ 1-1/4 IN ID OUTLET, FOR CAST IRON PIPE, FITTING, ID 11633	578017	
	CLAMP,PIPE, REPAIR, 4 IN CIP, SS, W/1-1/4 NPT TAP, FOR 4.74 - 5.14 IN PIPE	542984	
	CLAMP,PIPE, REPAIR, 6 IN CIP, SS, W/1-1/4 NPT TAP, FOR 6.84 - 7.24 IN PIPE	542982	
	CLAMP,PIPE, REPAIR, 8 IN IPS, SS, W/2 IN TAP, ALTERNATE IN 578014 (REQUIRES 2" X 1-1/4" REDUCING BUSHING)	578014	
	CLAMP PIPE, FULL CIRCLE REPAIR,DOUBLE BAND, W/ 2 IN NPT OUTLET, 12.75 TO 13.26 IN OD, 304 SS, 10 IN LONG, STEEL NUTS & BOLTS, BUNA-N GASKET (REQUIRES 2" X 1-1/4" REDUCING BUSHING)	578016	

DETAIL B: TAPS FOR STEEL MAINS

ITEM NO.	DESCRIPTION	PART NO.	QUANTITY
14 / 15	3/4"x1/2" UMAC 40056 SELF TAP WELD TEE IPS x CTS & 5/8" OD COMPRESSION ADAPTER OUTLET WITH SER400 EFV OR	N/A	1
14	TEE,PIPE, NON-BLOWING, 1-1/4 IN TEE OUTLET X 1-1/4 IN MAIN, WELDED, 250 PSIG, W/ CI CAP, CMA 44788004	610059	
14	TEE,PIPE, NON-BLOWING, 1 IN, WELDED ENDS, LIGHT WALL, FORGED STEEL BODY, W/ CI CAP	560712	
15	FITTING,TRANSITION, 3/4 IN CS X 1/2 IN CTS X 0.090 IN THK WALL, PE4710 SDR 7, STEEL WELD X PLASTIC BUTT END	546257	
15	VALVE, BLEED, EXCESS FLOW, YELLOW, 1/2 IN CTS X 0.09 THK WALL X 12 IN LG, MODEL #P41, PLASTIC, PE4710, UMAC SERIES 350 (EFV)	592085	

DETAIL C: TAPS FOR PLASTIC MAINS

DESCRIPTION	PART NO.	QUANTITY
14 TEE,PIPE, NON-BLOWING, 2 X 1/2 IN CTS X 0.090 IN THK WALL SDR 7, ELECTROFUSION X COMPRESSION ENDS, LIGHT WALL, POLYETHYLENE, PE3408/PE100	500866	
14 TEE,PIPE, NON-BLOWING, 3 X 1/2 IN CTS X 0.090 IN THK WALL SDR 7, ELECTROFUSION X COMPRESSION ENDS, HDPE, PE3408, 10/BOX	578017	
14 TEE,PIPE, NON-BLOWING, 4 X 1/2 IN CTS X 0.090 IN THK WALL SDR 7, ELECTROFUSION X COMPRESSION ENDS, HDPE, PE3408, 10/BOX	500867	
14 TEE,PIPE, NON-BLOWING, 6 X 1/2 IN CTS X 0.090 IN THK WALL SDR 7, ELECTROFUSION X COMPRESSION ENDS, POLYETHYLENE, PE3408	500869	
14 TEE,PIPE, NON-BLOWING, 8 X 1/2 IN CTS X 0.090 IN THK WALL SDR 7, ELECTROFUSION X COMPRESSION ENDS, POLYETHYLENE, PE3408	578014	
14 TEE,PIPE, NON-BLOWING, 12 X 1/2 IN CTS X 0.090 IN THK WALL SDR 7, ELECTROFUSION X COMPRESSION ENDS, LIGHT WALL, POLYETHYLENE, PE4710	560847	
15 VALVE, BLEED, EXCESS FLOW, YELLOW, 1/2 IN CTS X 0.09 THK WALL X 12 IN LG, MODEL #P41, PLASTIC, PE4710, UMAC SERIES 350 (EFV)	592085	

NOTES:

- EFV TO BE INSTALLED PER MANUFACTURERS REQUIREMENTS. EFV SHALL BE PROPERLY SIZED FOR APPLICATION PER EVERSOURCE STANDARDS AND MANUFACTURERS REQUIREMENTS.
- AN EFV WILL BE INSTALLED ON EACH GAS LINE TO A TRANSMITTER.
- EQUIPMENT SHALL BE MOUNTED NEAT AND PLUMB.

No.	Description	Date	Dw/Ck
2	CONSTRUCTION	5/3/2023	CHI
1	CONSTRUCTION	1/18/2023	CHI
0	CONSTRUCTION	1/12/2023	CHI

CONSTRUCTION



CHI ENGINEERING

An NIVIS Company

ELM ST. AND FARNSWORTH RD., ANDOVER, MA			
PROJECT # 23GMSYSACT			
STANDARD TELEMETRY GRID SERVICE DETAIL UP TO 98 PSIG MAOP			
SCALE: NTS ON 22" X 34"		SHEET 05 OF 06	
Drawn by / Date	Checked by / Date	Drawing Number	Rev. No.
CHI, 10/24/2022	XXX XX/XX/XXXX	MA-LAW-TLM-23-515-05	2

FIELD VERIFY DIMENSIONS PRIOR TO PIPE FABRICATION

D:\PROJECTS\2023\11-499M\11-499M-TLM-23-515-05-05.DWG

78 River Street

Legend



Google Earth

© 2023 Google



10 ft

109 Gould Street

Legend



Google Earth

© 2023 Google

6.96 ft



464 River Road

Legend



Google Earth

© 2023 Google

6.06 ft



Bellevue @ Barron

Legend



Google Earth

© 2023 Google

5.76 ft



Elm @ Farnsworth

Legend



Google Earth

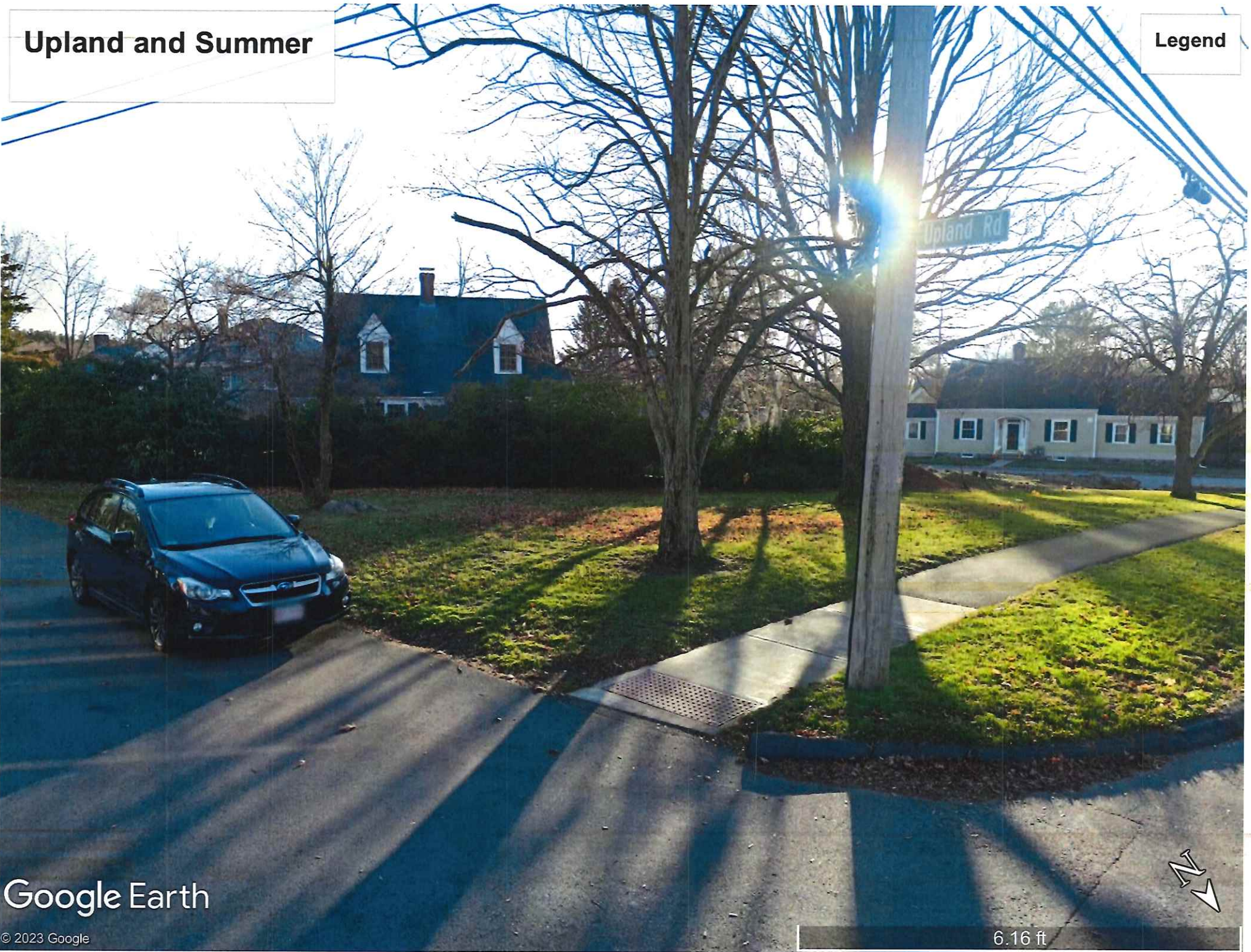
© 2023 Google



6.70 ft

Upland and Summer

Legend



Google Earth

© 2023 Google



6.16 ft

Example Telemeter Cabinet
Note: Only one cabinet is needed at
each Andover location.



78 River Street

Legend



Google Earth

© 2023 Google

10 ft

109 Gould Street

Legend



Google Earth

© 2023 Google



6.96 ft

464 River Road

Legend



Google Earth

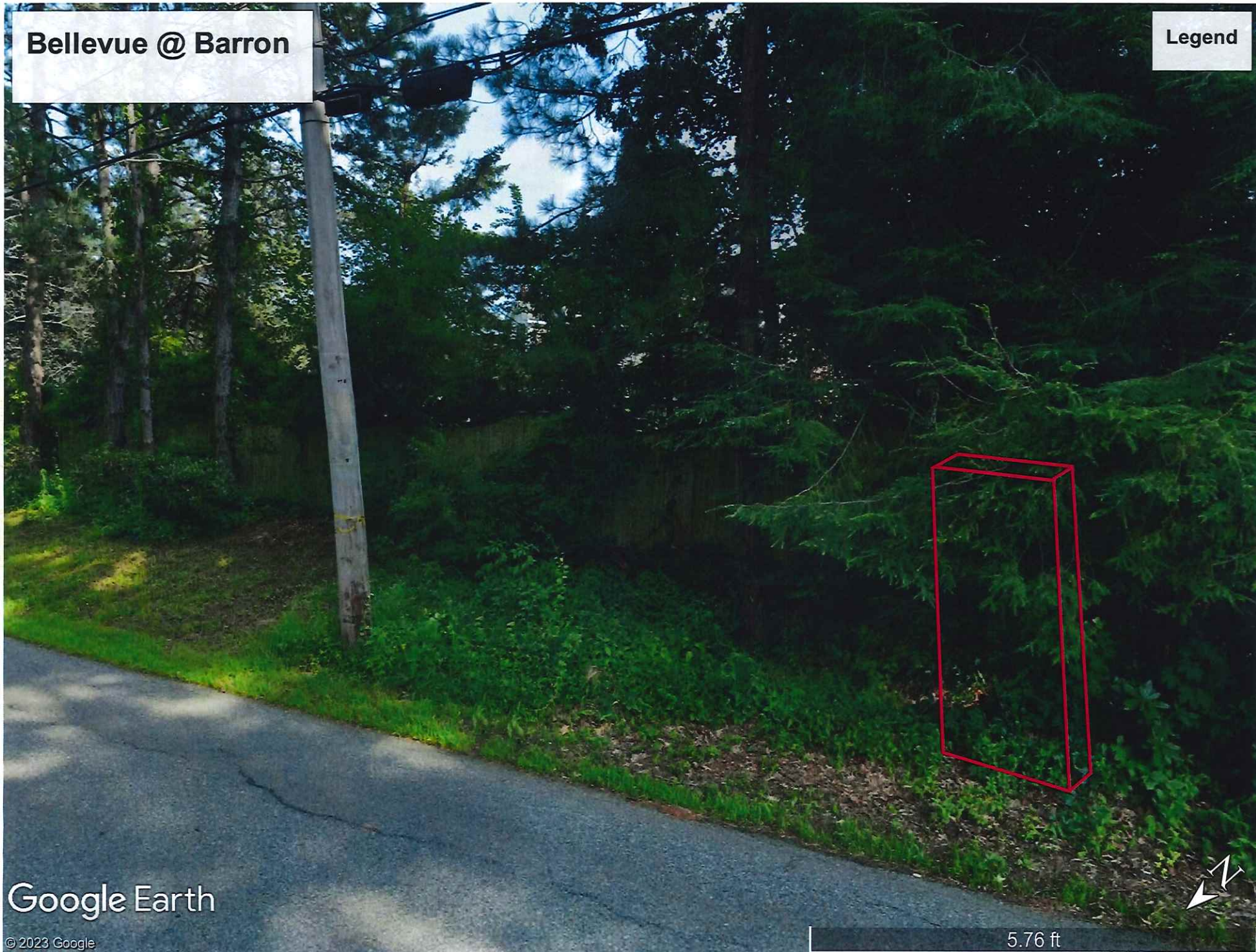
© 2023 Google

6.06 ft



Bellevue @ Barron

Legend



Google Earth

© 2023 Google

5.76 ft

Elm @ Farnsworth

Legend



Google Earth

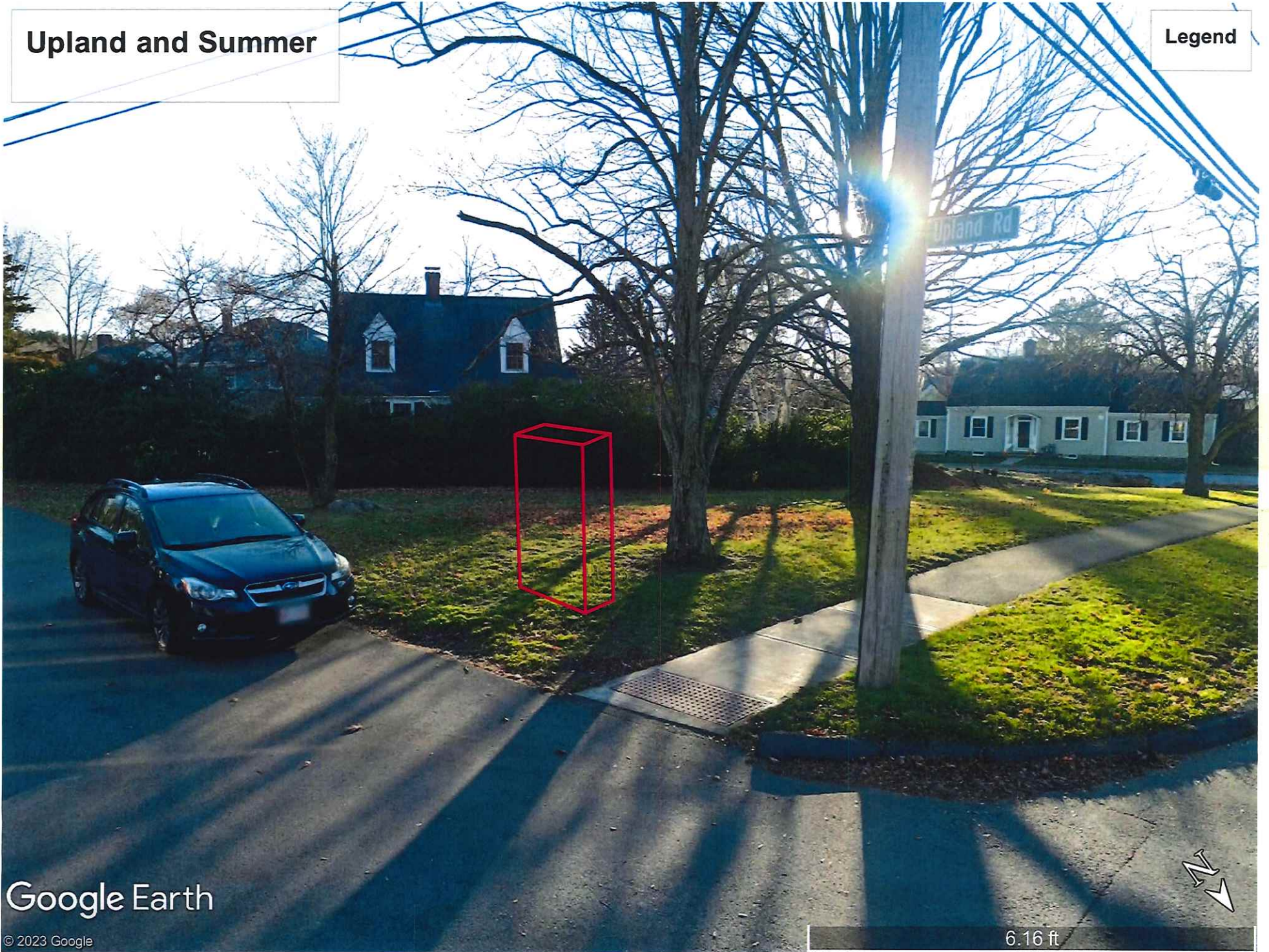
© 2023 Google

6.70 ft



Upland and Summer

Legend



Google Earth

© 2023 Google

6.16 ft





TOWN OF ANDOVER

Town Clerk's Office

36 Bartlet Street
Andover, MA 01810
978-623-8230
townclerk@andoverma.gov

NOTICE

You are hereby notified that a Public Hearing will be held by the Andover Select Board on October, 16, 2023 in the School Committee Conference Room, 30 Whittier Court, at 7 PM.

This hearing is being held on the petition of National Grid requesting permission to construct a line of underground electric conduits, including the necessary sustaining and protecting fixtures, under and across the public way or ways hereinafter named.

#30436223 – Park Street – National Grid to install (2) 4" new concrete encased conduits with electric lines from existing P1588-50 in public way heading Southeast across the street +/-50' to a new heavy duty hand hole #1588-51 located in sidewalk area in the public way to provide an underground service tap for town's parking lot lighting cabinet.

Also, permission to excavate the public highways and to run and maintain underground electric conduits together with such sustaining and protecting fixtures as it may find necessary for the transmission of electricity, said underground conduits to be located substantially in accordance with the plan filed herewith marked – Park Street – Andover, Massachusetts.

Plan(s) of the proposed work can be found in the Meeting Packet on the Select Board's page on the Town of Andover website, www.andoverma.gov.

Representatives from the utility company will present their petition during the meeting and will also be available before the meeting at 6:45 P.M. on the above date to answer questions you may have relating to the proposed work.

By order of the
Select Board

Austin Simko
Assistant Town Manager/Town Clerk

Plan No.: 30436223
Date: October 4, 2023

TOWN OF ANDOVER, MASSACHUSETTS



PRIVATE UTILITY PETITION CHECKLIST

TO BE FILLED OUT BY PETITIONER

COMPANY:	nationalGRID	30436223
PROJECT MANAGER NAME:	David Boucher	
PROJECT MANAGER CONTACT NUMBER:	978-314-5069	
LIST OF ADDRESSES IMPACTED BY PROPOSED WORK:	Abutters can be attained through Town office	
PETITIONER IS REQUIRED TO ATTACH PICTURES SHOWING AREA OF PROPOSAL		
PICTURES HAVE BEEN ATTACHED	YES	

TO BE FILLED OUT BY TOWN OF ANDOVER STAFF

DPW	
SUPPORT PROJECT (YES / NO)	SIGNATURE: <u>[Signature]</u>
	TITLE: <u>Town Engineer</u>
COMMENTS:	<u>Conduit is already installed as part of Lot reconstruction project.</u>

POLICE DEPARTMENT	
SUPPORT PROJECT (YES / NO)	SIGNATURE: _____
	TITLE: _____
COMMENTS:	

FIRE DEPARTMENT	
SUPPORT PROJECT (YES / NO)	SIGNATURE: _____
	TITLE: _____
COMMENTS:	

TOWN OF ANDOVER, MASSACHUSETTS



PRIVATE UTILITY PETITION CHECKLIST

TO BE FILLED OUT BY PETITIONER

COMPANY: nationalGRID	30436223
PROJECT MANAGER NAME: David Boucher	
PROJECT MANAGER CONTACT NUMBER: 978-314-5069	
LIST OF ADDRESSES IMPACTED BY PROPOSED WORK:	
Abutters can be attained through Town office	
PETITIONER IS REQUIRED TO ATTACH PICTURES SHOWING AREA OF PROPOSAL	
PICTURES HAVE BEEN ATTACHED	YES

TO BE FILLED OUT BY TOWN OF ANDOVER STAFF

DPW	
SUPPORT PROJECT (YES / NO)	SIGNATURE: _____
COMMENTS:	TITLE: _____

POLICE DEPARTMENT	
SUPPORT PROJECT (YES / NO)	SIGNATURE: <i>R. O. Lyons</i>
COMMENTS:	TITLE: <i>Executive Officer</i>

FIRE DEPARTMENT	
SUPPORT PROJECT (YES / NO)	SIGNATURE: _____
COMMENTS:	TITLE: _____

TOWN OF ANDOVER, MASSACHUSETTS



PRIVATE UTILITY PETITION CHECKLIST

TO BE FILLED OUT BY PETITIONER

COMPANY: nationalGRID	30436223
PROJECT MANAGER NAME: David Bouchor	
PROJECT MANAGER CONTACT NUMBER: 870-314-6080	
LIST OF ADDRESSES IMPACTED BY PROPOSED WORK:	
Abutters can be obtained through Town office	
PETITIONER IS REQUIRED TO ATTACH PICTURES SHOWING AREA OF PROPOSAL	
PICTURES HAVE BEEN ATTACHED	YES

TO BE FILLED OUT BY TOWN OF ANDOVER STAFF

DEW	
SUPPORT PROJECT (YES / NO)	SIGNATURE: _____
COMMENTS:	TITLE: _____

POLICE DEPARTMENT	
SUPPORT PROJECT (YES / NO)	SIGNATURE: _____
COMMENTS:	TITLE: _____

FIRE DEPARTMENT	
SUPPORT PROJECT (YES / NO)	SIGNATURE: <i>200 [Signature]</i>
COMMENTS:	TITLE: <i>Fire Chief</i>

nationalgrid

July 3, 2023

ANDOVER TOWN CLERK
RCUD 2023 JUL 26 AM9:24

The Board of Selectmen of Andover, Massachusetts

To Whom It May Concern:

Enclosed please find a petition of NATIONAL GRID covering the installation of underground facilities.

If you have any questions regarding this permit, please contact:

Dave Boucher 978-314-5069

Please notify National Grid's Jenn Iannalfo of the hearing date / time to
Jennifer.Iannalfo@nationalgrid.com

If this petition meets with your approval, please return an executed copy to:

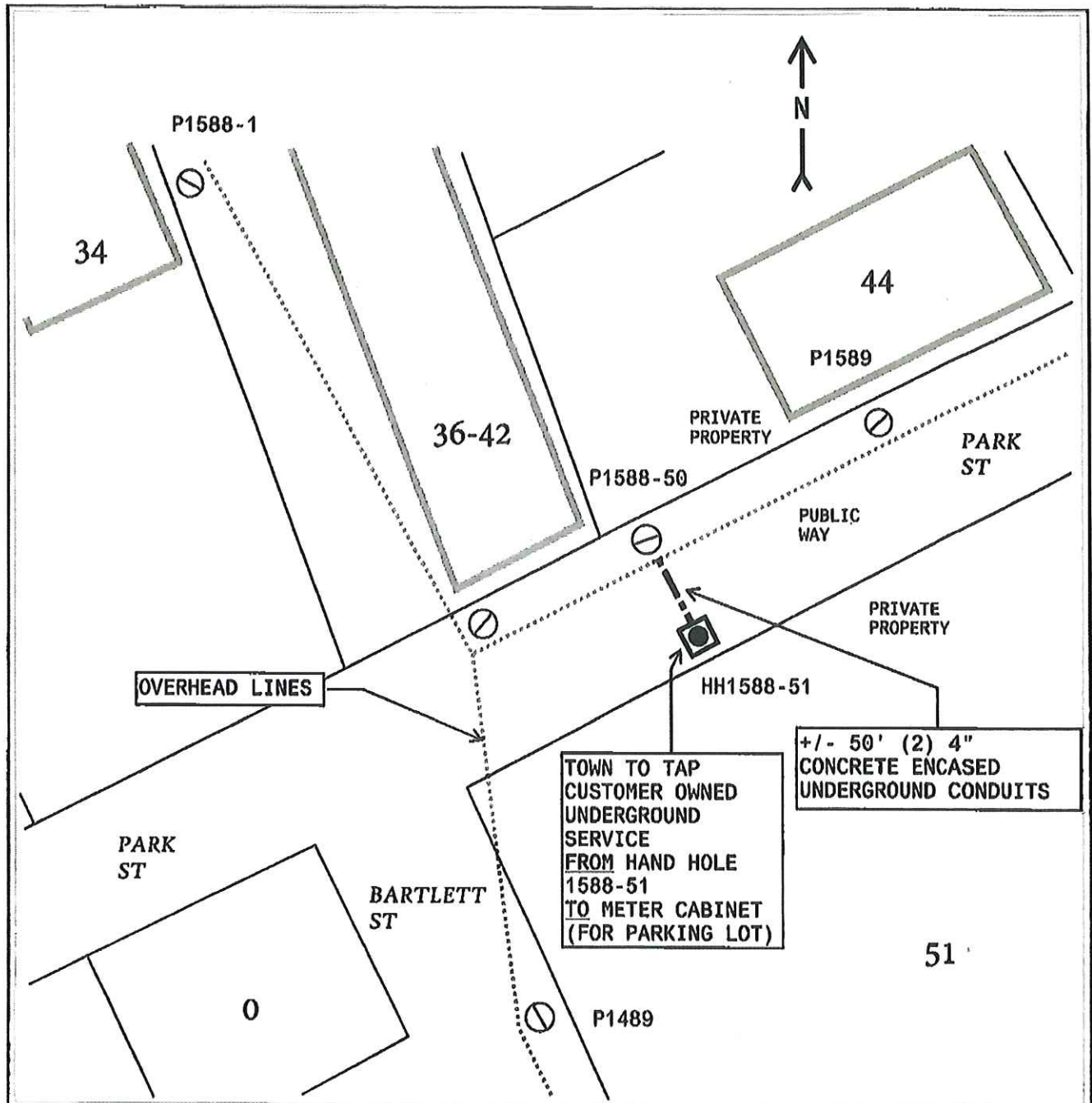
National Grid: Jennifer Iannalfo; 1101 Turnpike Street; North Andover, MA 01845; # 978-725-1418

Very truly yours,

Dave Johnson

Dave Johnson
Supervisor, Distribution Design

Enclosures






OVERHEAD LINES

TOWN TO TAP
CUSTOMER OWNED
UNDERGROUND
SERVICE
FROM HAND HOLE
1588-51
TO METER CABINET
(FOR PARKING LOT)

+/- 50' (2) 4"
CONCRETE ENCASED
UNDERGROUND CONDUITS

DISTRIBUTION ELECTRIC UNDERGROUND PETITION Plan Number 30436223

LEGEND

-  EXISTING J.O. POLE
-  PROPOSED NEW HEAVY DUTY HANDHOLE
-  PROPOSED (2)4" CONCRETE ENCASED CONDUITS

Date: 6/30/23 Drawn by: DJB

DRAWING NOT TO SCALE. DISTANCES ARE APPROXIMATE



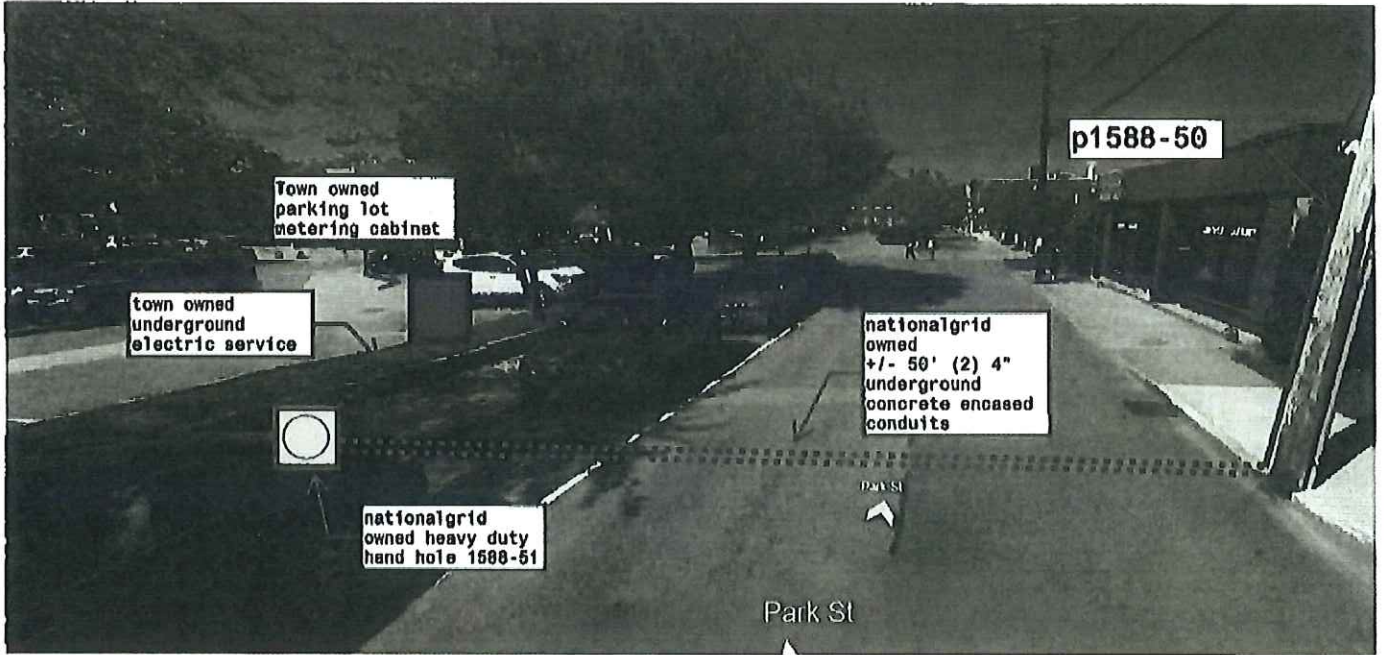
To The: TOWN OF ANDOVER, MA

For Proposed:
UNDERGROUND ELECTRIC SERVICE

Location:
0 PARK ST

Sketch to accompany petition for:

+/- 50' (2)4" CONCRETE ENCASED CONDUITS
FROM EXISTING POLE# 1588-50
TO NEW HEAVY DUTY HANDHOLE# 1588-51
FOR ELECTRIC SERVICE TO TOWN PARKING LOT



Town owned
parking lot
metering cabinet

p1588-50

town owned
underground
electric service

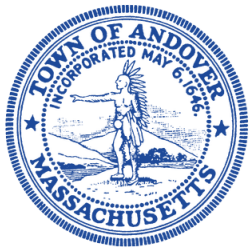
nationalgrid
owned
+/- 50' (2) 4"
underground
concrete encased
conduits



nationalgrid
owned heavy duty
hand hole 1588-51

DMSI

Park St



Andrew P. Flanagan
Town Manager

TOWN OF ANDOVER

Town Manager's Office
36 Bartlet Street
Andover, MA 01810
(978) 623-8210
www.andoverma.gov

TOWN OF ANDOVER COURTESY NOTICE

Please be informed that the Andover Select Board, at their meeting on Monday, October 16, 2023 will discuss the following proposed amendments to the Town of Andover's Traffic Rules and Regulations:

Schedule 1, Article V, Section 2 – Parking

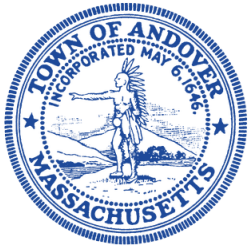
1. Elm Street south 115' east of Main Street to a distance of 250' 30-minute parking 8:00 a.m. to 6:00 p.m. except Sundays and legal holidays.

Amend to:

Elm Street south 115' east of Main Street to a distance of 250' 15-minute parking 8:00 a.m. to 9:00 p.m. except Sundays and legal holidays.

The Select Board's meeting will be held in the 2nd Floor School Committee Conference Room of the School Administration Building, 30 Whittier Court, at 7:00 P.M.

If you have further questions regarding this discussion, please contact Safety Officer Glen Ota at 978-623-3564 or the Town Manager's Office at 978-623-8210.



Andrew P. Flanagan
Town Manager

TOWN OF ANDOVER

Town Manager's Office
36 Bartlet Street
Andover, MA 01810
(978) 623-8210
www.andoverma.gov

TOWN OF ANDOVER COURTESY NOTICE

Please be informed that the Andover Select Board, at their meeting on Monday, October 16, 2023 will discuss the following proposed amendments to the Town of Andover's Traffic Rules and Regulations:

Schedule 3, Article VII, Section 9 – Isolated Stop Signs

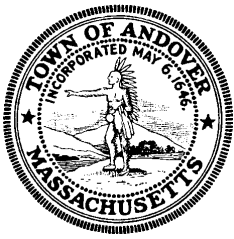
1. Location – Abbot Street at Phillips Street.

Amend to:

All-way stop at Abbot Street and Phillips Street.

The Select Board's meeting will be held in the 2nd Floor School Committee Conference Room of the School Administration Building, 30 Whittier Court, at 7:00 P.M.

If you have further questions regarding this discussion, please contact Safety Officer Glen Ota at 978-623-3564 or the Town Manager's Office at 978-623-8210.

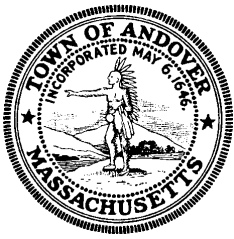


2024 ANNUAL TOWN MEETING & ELECTION CALENDAR

Andover Town Election & Annual Town Meeting		
ANNUAL TOWN ELECTION:	Tuesday, March 26, 2024 7:00AM - 8:00PM	(Fourth Tuesday in March)
ANNUAL TOWN MEETING:	April 29, April 30, May 1, & May 2, 2024 7:00PM J. Everett Collins Center Auditorium Andover High School, Shawsheen Road	
BUDGET DUE TO TOWN:	Friday, February 2, 2024	(First Friday of Feb.)
ANNUAL TOWN REPORT:	Tuesday, March 19, 2024	(7 days before town election)
FINANCE COMMITTEE REPORT:	Friday, April 19, 2024	(10 days before business meeting)
TOWN WARRANT:	Opens: Monday, October 23, 2023 Closes: Friday, January 19, 2024	

ANDOVER TOWN ELECTION DEADLINES		
Last day to submit nomination papers to the Board of Registrars for Town Election	Tuesday, February 6, 2024 5:00PM	(49 days)
Last day to withdraw from Town Election (notarized statement in writing)	Thursday, February 22, 2024 5:00PM	(33 days)
Last Day to register to vote for the Town Election for non-registered voters:	Saturday, March 16, 2024	(10 days)
Warrant Posted & Published:	No later than Tuesday, March 12, 2024	(14 days)

PLEASE NOTE: Mail-in voter registration forms are available at the Registry of Motor Vehicles, Memorial Hall Library, all four Post Offices, the Secretary of the Commonwealth's website, and the Town Offices on Bartlet Street. If you are not registered to vote, to be eligible to vote at an Election or Town Meeting, your mail-in form must be received or postmarked by the last day to register per State law. Online voter registration is now available on the Secretary of the Commonwealth's web site.



ANNUAL TOWN MEETING DEADLINES

Last Day to Register to vote for the Annual Town Meeting for non-registered voters:	Friday, April 19, 2024	(10 days)
Warrant Posted & Published:	No later than Monday, April 15, 2024	(14 days)

2024 CAMPAIGN FINANCE REPORTING

REPORT NAME	REPORT DUE	REPORTING PERIOD DATES
2023 End-of-Year:	Due Jan. 20, 2024	<u>Reporting Period Ending:</u> <ul style="list-style-type: none"> • April 17, 2023 – December 31, 2023 (2023 candidates not dissolved) • January 1, 2023 – December 31, 2023 (all others)
8 Day Pre-Election:	Due March 18, 2024	<u>Reporting period:</u> <ul style="list-style-type: none"> • January 1, 2024 – March 8, 2024 (accounting closes 10 days before due date)
30 Day Post-Election:	Due April 25, 2024	<u>Reporting period:</u> <ul style="list-style-type: none"> • March 9, 2024 – April 15, 2024 (accounting closes 10 days before due date)
2024 End-of-Year:	Due Jan. 20, 2025	<u>Reporting Period Ending:</u> <ul style="list-style-type: none"> • April 16, 2024 through December 31, 2024 (all 2024 candidates not dissolved) • January 1, 2024 through December 31, 2024 (all others)
Dissolution Report:	Due when balance is zero with written notice	

2024 STATE ELECTIONS

Presidential Primary – March 5, 2024

State Primary – Date TBD

State General Election – November 5, 2024