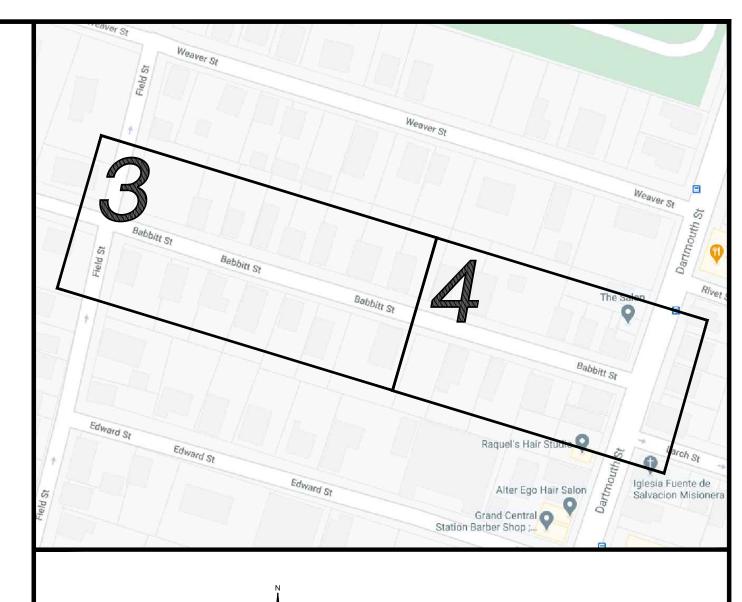


EXISTING CONDITIONS SHOWN ARE BASED ON GIS, AERIAL AND AVAILABLE RECORD DATA, NO FIELD SURVEY WAS PERFORMED. CONTRACTOR TO VERIFY EXISTING CONDITIONS AS NEEDED IN THE FIELD. PROPOSED MAIN ALIGNMENT AND OFFSETS ARE APPROXIMATE.

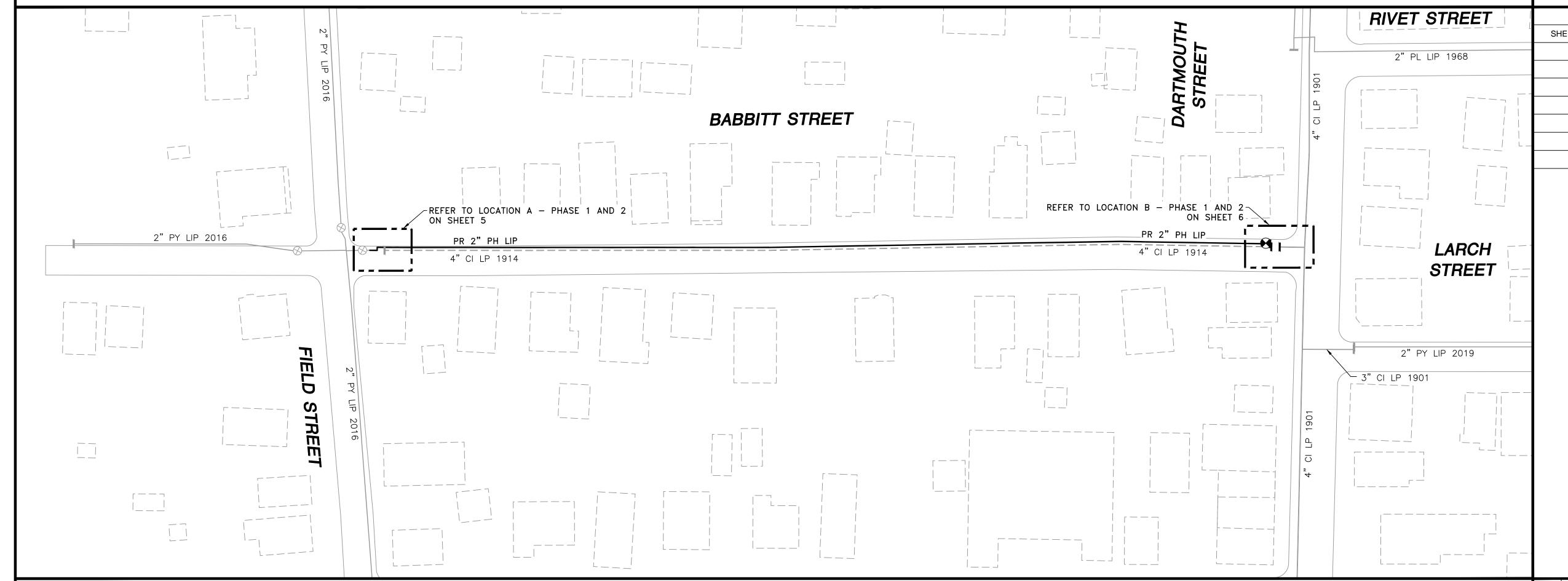
## EVERSEURCE **ENERGY**

BABBITT STREET MAIN RELAY INSTALLATION OF 625' OF 2" PH LIP GAS MAIN BABBITT STREET NEW BEDFORD, MASSACHUSETTS ENE PROJECT #: 2005881.20 EVERSOURCE PROJECT #: 4133088



LOCUS PLAN NOT TO SCALE

SHEET INDEX



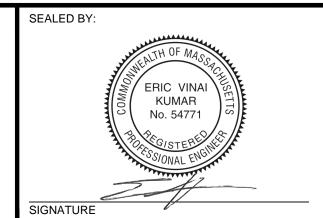
L	SHEET NUMBER	ESCRIPTION				
	1 SITE PLAN, LOCUS PLAN AND SHEET INDEX					
	2	GENERAL NOTES				
	3	INSTALLATION PLAN				
	4	INSTALLATION PLAN				
	5	LOCATION A - PHASE 1, 2 AND SCHEDULE OF MATERIALS				
 	6	LOCATION B - PHASE 1, 2 AND SCHEDULE OF MATERIALS				
	7	STANDARD CORROSION DETAILS				

SITE PLAN

NEW BEDFORD, MASSACHUSETTS (SCALE: 1"=40') (DO NOT SCALE FROM DRAWINGS)

1	IFC - NO CHANGES THIS SHEET	08/10/2021	LR/AB/EK			
0	ISSUED FOR CONSTRUCTION	03/15/2021	BS/AB/EK			
NO.	DESCRIPTION	DATE	DW/CK/AP			
	REVISION STATUS					

ISSUED FOR CONSTRUCTION 08/10/2021



08/11/2021	DESIGNED IN ACCORDANCE WITH TITLE 49-PART 192 OF MINIMUM FEDERAL SAFETY STANDARDS AND GPTC GUIDE FOR GAS TRANSMISSION AND DISTRIBUTION PIPING SYSTEMS. LATEST EDITION.
ICENSE XPIRATION:	<b>EN</b> engineering
	29 BARTLETT STREET

FIELD VERIFY DIMENSIONS PRIOR TO PIPE FABRICATION SCALE: AS NOTED

**EVERS\$\rightarrow\$URCE** BABBITT STREET MAIN RELAY NEW BEDFORD, MASSACHUSETTS SITE PLAN, LOCUS PLAN AND SHEET INDEX SHEET 1 OF 7 SHEET NUMBER

MANEB21PIP028R

MA-NEB-21-PIP-028-01

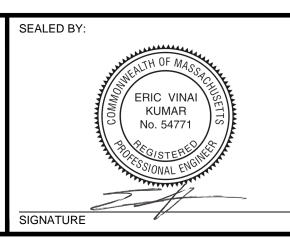
## GENERAL NOTES

- 1. 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.
  - A. IF THE TIE IN POINT MOVES TO A DIFFERENT SEGMENT OF PIPE THAN SHOWN
  - B. IF A CHANGE IN THE LOCATION OF VALVES IS REQUIRED
  - C. 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
  - D. IF A CHANGE IN PIPE SIZE, MATERIAL, FITTINGS, OR WALL THICKNESS IS REQUIRED.
- 2. MINOR CHANGES SUCH AS OFFSETS MAY NOT REQUIRE DRAWING CHANGES.
- 3. EXCAVATOR SHALL CALL DIGSAFE/CALL BEFORE YOU DIG (DIAL 811) AT LEAST 72 HOURS PRIOR TO CONSTRUCTION. SATURDAYS, SUNDAYS, AND HOLIDAYS ARE EXCLUDED FROM THE 72-HOUR TIME SPAN, NOT CONSIDERED BUSINESS WORKDAYS.
- 4. CONSTRUCTION DRAWINGS ARE BASED ON EVERSOURCE HISTORICAL DOCUMENTATION AND HAVE NOT BEEN FIELD VERIFIED. WHEN THE PIPE IS EXPOSED AND VARIANCES TO THE CERTIFIED DRAWINGS ARE FOUND, CONTACT GAS ENGINEERING TO DETERMINE PATH FORWARD.
- 5. ALL WORK SHALL BE PERFORMED PER EVERSOURCE, LOCAL, STATE, OSHA, AND FEDERAL REGULATIONS AND STANDARDS.
- 6. MATERIAL AND CONSTRUCTION SHALL CONFORM TO EVERSOURCE GAS STANDARDS.
- 7. THE LOCATIONS OF EXISTING UTILITIES AND UNDERGROUND STRUCTURES ARE APPROXIMATE AND MUST BE FIELD VERIFIED. ADDITIONAL UNDERGROUND FACILITIES MAY EXIST THAT ARE NOT SHOWN ON THESE DRAWINGS WHICH MAY REQUIRE ADDITIONAL OFFSETS IN THE PIPELINE.
- 8. WORK LOCATIONS SHOWN ON THE DRAWINGS ARE APPROXIMATE. EXACT LOCATIONS OF TIE-INS SHALL BE DETERMINED AT THE TIME OF CONSTRUCTION TO SUIT FIELD CONDITIONS AT THE SPECIFIC TIE-IN POINT. VERIFY LOCATIONS OF ALL EXISTING UTILITIES PRIOR TO BEGINNING ANY TIE-IN WORK.
- 9. ALL LIVE GAS WORK 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.
- 10. EXCAVATOR IS REQUIRED TO PROTECT EXISTING UTILITIES, STRUCTURES, LANDSCAPE FEATURES, SIGNAGE, CURBS, ETC. CARE SHOULD BE TAKEN NOT TO DISTURB OR DAMAGE SUCH 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.
- 11. IF THE PROJECT IS WITHIN 50 FEET OF A DISTRICT REGULATOR OR GATE STATION, ENSURE THAT A QUALIFIED I&R TECHNICIAN IS ON SITE.
- 12. 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.
- 13. PROPERTY LINES, STRUCTURES AND EXISTING CONDITIONS DEPICTED ON PLANS ARE BASED ON EVERSOURCE GIS INFORMATION AND HAVE NOT BEEN VERIFIED BY LAND SURVEY UNLESS NOTED.
- 14. EXISTING SERVICES SHOWN ON PLAN ARE FOR INFORMATION ONLY. PROPOSED SERVICES ARE NOT SHOWN ON PLANS AND ARE TO BE INSTALLED PER EVERSOURCE CONSTRUCTION STANDARDS.
- 15. PROPOSED WORK SHALL BE PERFORMED AND COMPLETED IN COMPLIANCE WITH ALL PERMITS AND APPROVALS.
- 16. MAINS AND SERVICES SHALL BE PRESSURE TESTED IN ACCORDANCE WITH EVERSOURCE OM-205.
- 17. MAOP:

LP = 14" W.C.LIP = 35 PSIG IP = 60 PSIGHP = 90 PSIG

- 18. ALL WORK SHALL BE PERFORMED PER EVERSOURCE, LOCAL, STATE AND FEDERAL REGULATIONS AND STANDARDS.
- 19. ALL PIPE WILL BE INSTALLED WITH A MINIMUM DEPTH IN ACCORDANCE WITH EVERSOURCE STANDARDS
- 20. SQUEEZE OPERATIONS SHOULD BE COMPLETED IN ACCORDANCE WITH OM-233
- 21. ENSURE ALL SERVICES BEING TRANSFERRED TO A HIGHER PRESSURE SYSTEM HAVE UPGRADED PRESSURE REGULATORS INSTALLED PRIOR TO ACTIVATION.
- 22. ENSURE VALVES ON EXISTING MAIN, WHERE PROPOSED MAIN WILL BE INSERTED HAVE BEEN MADE INOPERABLE.
- 23. ADDITIONAL VALVES AND TEES THAT ARE INCLUDED IN THE SCHEDULE OF MATERIALS MAY BE INSTALLED TEMPORARILY WHEN NEEDED TO FACILITATE TIE-INS AND PURGES.
- 24. METFIT FITTINGS MAY BE SUBSTITUTED FOR ELECTROFUSION FITTINGS WHERE NEEDED.
- 25. DO NOT SCALE FROM DRAWINGS.

ISSUED FOR CONSTRUCTION 08/10/2021



SEALED ON:

LICENSE EXPIRATION:

08/11/2021

06/30/2022

**EN**Engineering

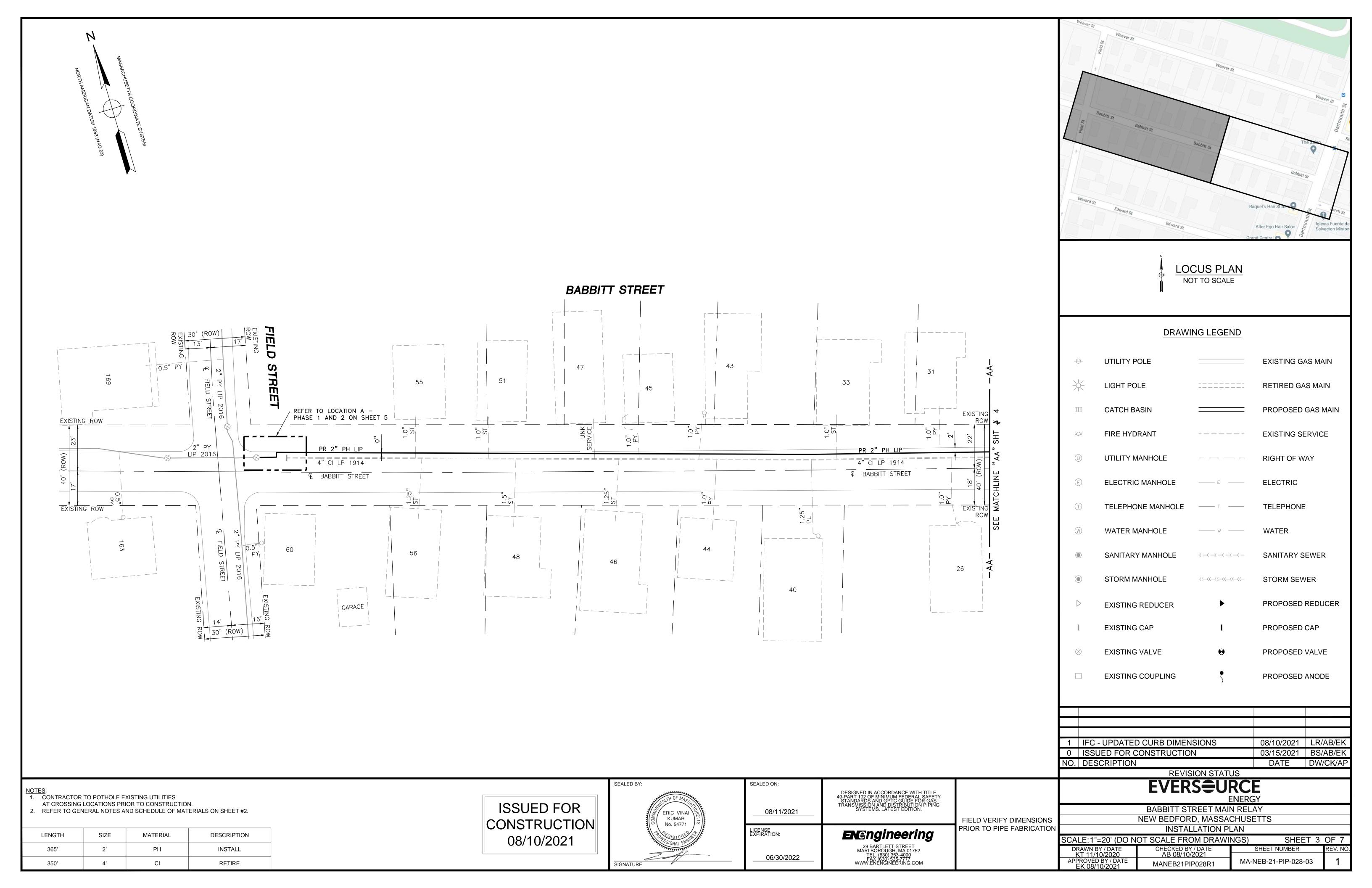
29 BARTLETT STREET MARLBOROUGH, MA 01752 TEL. (630) 353-4000 FAX (630) 535-7777 WWW.ENENGINEERING.COM

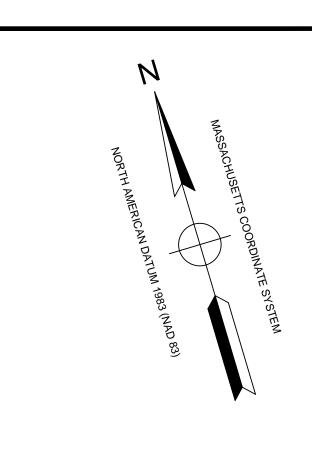
FIELD VERIFY DIMENSIONS PRIOR TO PIPE FABRICATION

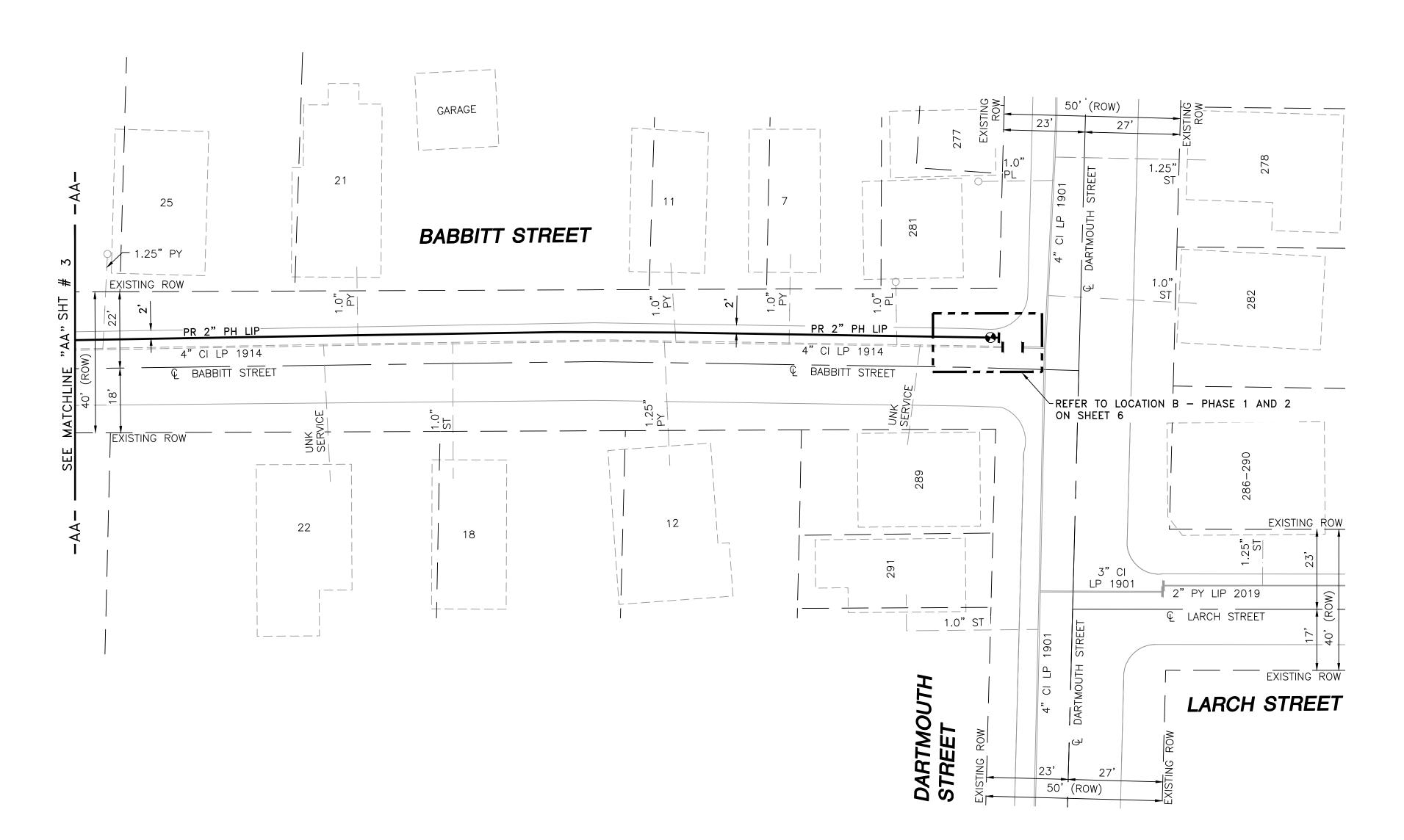
EK 08/10/2021

1 IFC - NO CHANGES THIS SHEET 08/10/2021 LR/AB/EK 0 ISSUED FOR CONSTRUCTION 03/15/2021 | BS/AB/EK NO. DESCRIPTION DATE DW/CK/AP **REVISION STATUS EVERS\$\rightarrow\$URCE** BABBITT STREET MAIN RELAY

NEW BEDFORD, MASSACHUSETTS **GENERAL NOTES** SCALE: NOT TO SCALE SHEET 2 OF 7 SHEET NUMBER DRAWN BY / DATE KT 11/10/2020 MA-NEB-21-PIP-028-02 MANEB21PIP028R1









LOCUS PLAN
NOT TO SCALE

## **DRAWING LEGEND**

<del></del>	UTILITY POLE		EXISTING GAS MAIN
*	LIGHT POLE		RETIRED GAS MAIN
	CATCH BASIN		PROPOSED GAS MAIN
∞	FIRE HYDRANT		EXISTING SERVICE
$\bigcirc$	UTILITY MANHOLE	_ — — –	RIGHT OF WAY
E	ELECTRIC MANHOLE	—— Е ——	ELECTRIC
T	TELEPHONE MANHOLE	—— т ——	TELEPHONE
W	WATER MANHOLE	W	WATER
	SANITARY MANHOLE	<-<<-	SANITARY SEWER
	STORM MANHOLE	<((((((((	STORM SEWER
$\triangleright$	EXISTING REDUCER	<b>&gt;</b>	PROPOSED REDUCER
1	EXISTING CAP	1	PROPOSED CAP
$\otimes$	EXISTING VALVE	•	PROPOSED VALVE
	EXISTING COUPLING	\$	PROPOSED ANODE

1	IFC - UPDATED CURB DIMENSIONS	08/10/2021	LR/AB/EK
0	ISSUED FOR CONSTRUCTION	03/15/2021	BS/AB/Ek
NO.	DESCRIPTION	DATE	DW/CK/AI

**REVISION STATUS** 

## **EVERS\$\rightarrow\$URCE**

BABBITT STREET MAIN RELAY

NEW BEDFORD, MASSACHUSETTS
INSTALLATION PLAN

 SCALE:1"=20' (DO NOT SCALE FROM DRAWINGS)
 SHEET 4 OF 7

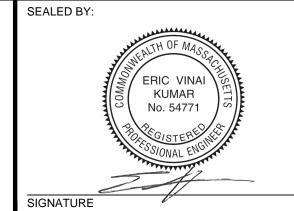
 DRAWN BY / DATE KT 11/10/2020
 CHECKED BY / DATE AB 08/10/2021
 SHEET NUMBER
 REV. NO.

 APPROVED BY / DATE EK 08/10/2021
 MANEB21PIP028R1
 MA-NEB-21-PIP-028-04
 1

NOT	<u>ES</u> :
1.	CONTRACTOR TO POTHOLE EXISTING UTILITIES
	AT CROSSING LOCATIONS PRIOR TO CONSTRUCTION.
2.	REFER TO GENERAL NOTES AND SCHEDULE OF MATERIALS ON SHEET #2.

LENGTH	SIZE	MATERIAL	DESCRIPTION
260'	2"	PH	INSTALL
275'	4"	CI	RETIRE

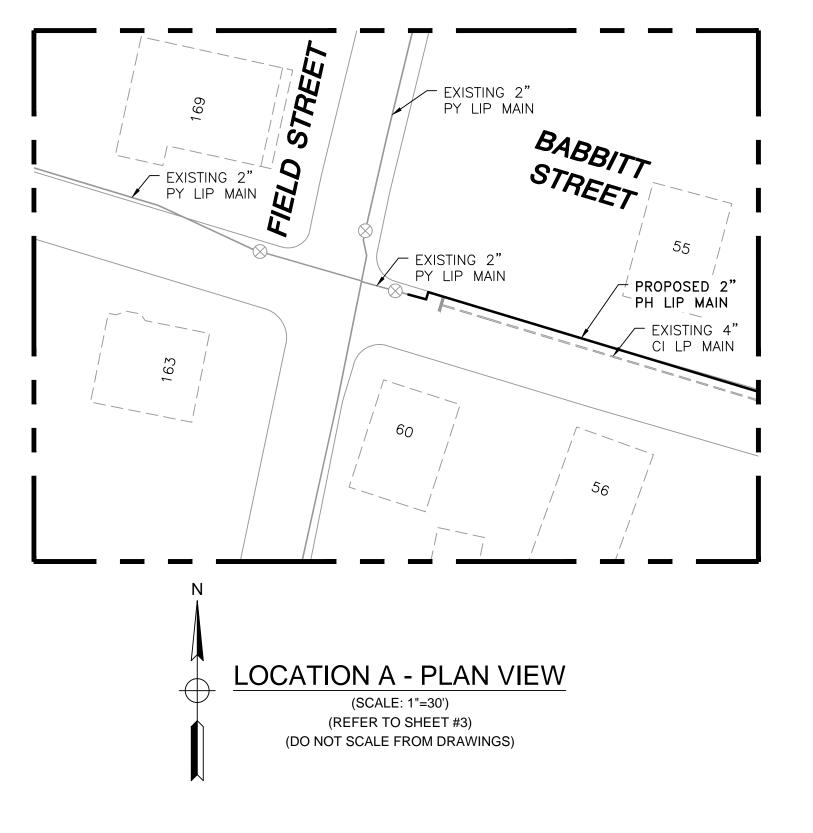
ISSUED FOR CONSTRUCTION 08/10/2021



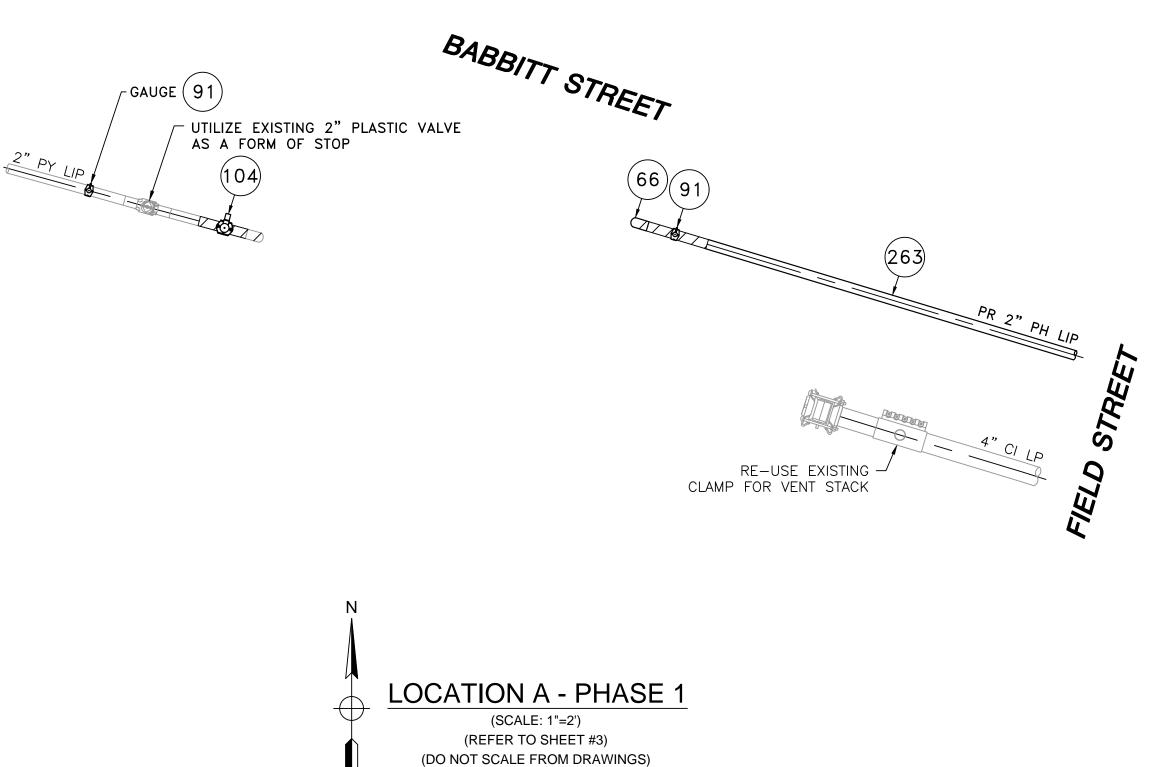
SEALED ON:

08/11/2021	DESIGNED IN ACCORDANCE WITH TITLE 49-PART 192 OF MINIMUM FEDERAL SAFETY STANDARDS AND GPTC GUIDE FOR GAS TRANSMISSION AND DISTRIBUTION PIPING SYSTEMS. LATEST EDITION.
LICENSE EXPIRATION:	<b>EN</b> @ngineering
06/30/2022	29 BARTLETT STREET MARLBOROUGH, MA 01752 TEL. (630) 353-4000 FAX (630) 535-7777 WWW.ENENGINEERING.COM

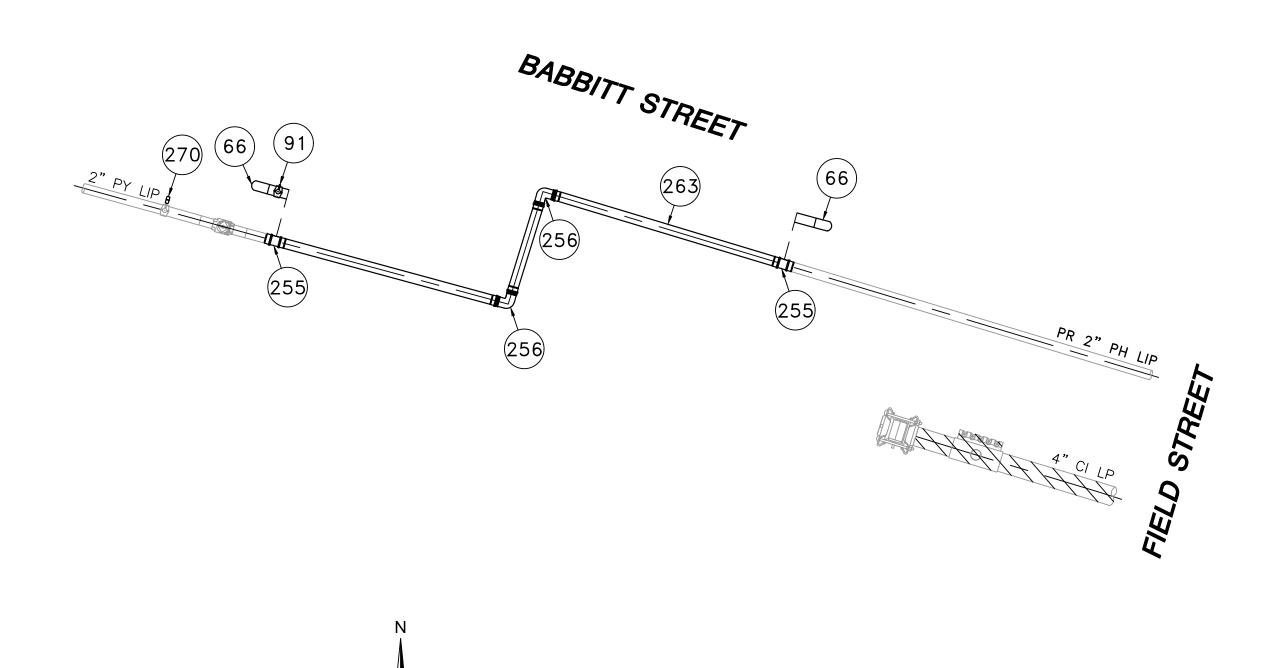
FIELD VERIFY DIMENSIONS PRIOR TO PIPE FABRICATION



NOTE:
1. REFER TO GENERAL NOTES ON SHEET #2.



	BABBITT STREET MAIN RELAY - LOCATION A - SCHEDULE OF MATERIALS				
ITEM	QTY	SIZE	MAXIMO NO.	DESCRIPTION	MATERIAL
66	AS REQUIRED	2"	542572	CAP, BUTT FUSION, IPS, HDPE 4710, SDR 11, ASTM D2513, ASTM D3350, ASTM D3261. PERFORMANCE PIPE OR APPROVED EQUAL.	ASTM D2513
91	3	2" X 1/2"	500866	TAPPING TEE, ELECTROFUSION, IPS X CTS, HDPE 3408/4710, SDR 11, ASTM D2513, ASTM D3350, ASTM D3261 ASTM F1055. CENTRAL PLASTICS OR APPROVED EQUAL.	ASTM D2513
104	1	2" X 1"	560779	TAPPING TEE, ELECTROFUSION, IPS X IPS, HDPE 3408/4710, SDR 11, ASTM D2513, ASTM D3350, ASTM D3261, ASTM F1055. CENTRAL PLASTICS OR APPROVED EQUAL.	ASTM D2513
255	AS REQUIRED	2"	5/9840	COUPLING, MECHANICAL COMPRESSION, SDR 11 IPS, DUPONT ZYTEL ST-801 NYLON BODY, 316 SS COMRESSION RING, INTERNAL STIFFENER, ASTM D-2513, ASTM F1924. METFIT OR APPROVED EQUAL.	ASTM D2513
256	AS REQUIRED	2"	582521	ELBOW, 90 DEG, MECHANICAL COMPRESSION, SDR 11 IPS, DUPONT ZYTEL ST-801 NYLON BODY, 316 SS COMRESSION RING, INTERNAL STIFFENER, ASTM D-2513, ASTM F1924. METFIT OR APPROVED EQUAL.	ASTM D2513
263	15'	2"	554025	PIPE, IPS, HDPE 3408/4710 SDR 11, ASTM D2513, ASTM D3350, PERFORMANCE PIPE OR APPROVED EQUAL	ASTM D2513
270	AS REQUIRED	1/2"	542609	END CAP, MECHANICAL STAB, CTS, HDPE, PE 4710/3408, ASTM D2513, WITH SS GRIPPING SUPPORT RING, ACETAL COLLET AND SPACER RETAINER RING, PE THRUST WASHER, BUNA-N O-RING, ZINC-PLATED CS INSERT STIFFENER, PERFECTION WITH END CAP OR APPROVED EQUAL.	ASTM D2513

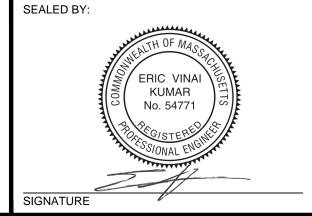


LOCATION A - PHASE 2
(SCALE: 1"=2')

(REFER TO SHEET #3)
(DO NOT SCALE FROM DRAWINGS)

1 IFC - NO CHANGES THIS SHEET 08/10/2021 LR/AB/EK
0 ISSUED FOR CONSTRUCTION 03/15/2021 BS/AB/EK
NO. DESCRIPTION DATE DW/CK/AP
REVISION STATUS

ISSUED FOR CONSTRUCTION 08/10/2021



DESIGNED IN ACCORDANCE WITH TITLE
49-PART 192 OF MINIMUM FEDERAL SAFETY
STANDARDS AND GPTC GUIDE FOR GAS
TRANSMISSION AND DISTRIBUTION PIPING
SYSTEMS. LATEST EDITION.

LICENSE
EXPIRATION:

FIGURE PART 192 OF MINIMUM FEDERAL SAFETY
STANDARDS AND GPTC GUIDE FOR GAS
TRANSMISSION AND DISTRIBUTION PIPING
SYSTEMS. LATEST EDITION.

06/30/2022

FIELD VERIFY DIMENSIONS
PRIOR TO PIPE FABRICATION

29 BARTLETT STREET
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WWW.ENENGINEERING.COM

EVERSEURCE
ENERGY

BABBITT STREET MAIN RELAY
NEW BEDFORD, MASSACHUSETTS

 LOCATION A - PHASE 1, 2 AND SCHEDULE OF MATERIALS

 SCALE: AS NOTED
 SHEET 5 OF 7

 DRAWN BY / DATE KT 11/10/2020
 CHECKED BY / DATE AB 08/10/2021
 SHEET NUMBER
 REV. NO

 APPROVED BY / DATE EK 08/10/2021
 MANEB21PIP028R1
 MA-NEB-21-PIP-028-05
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