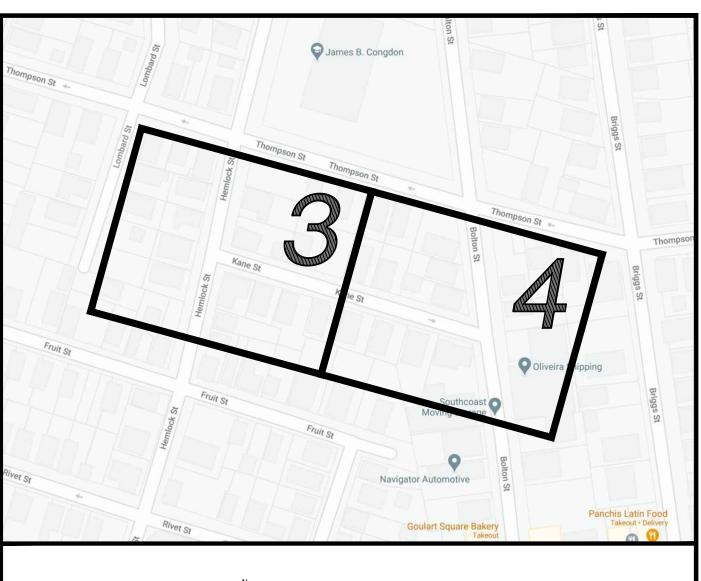
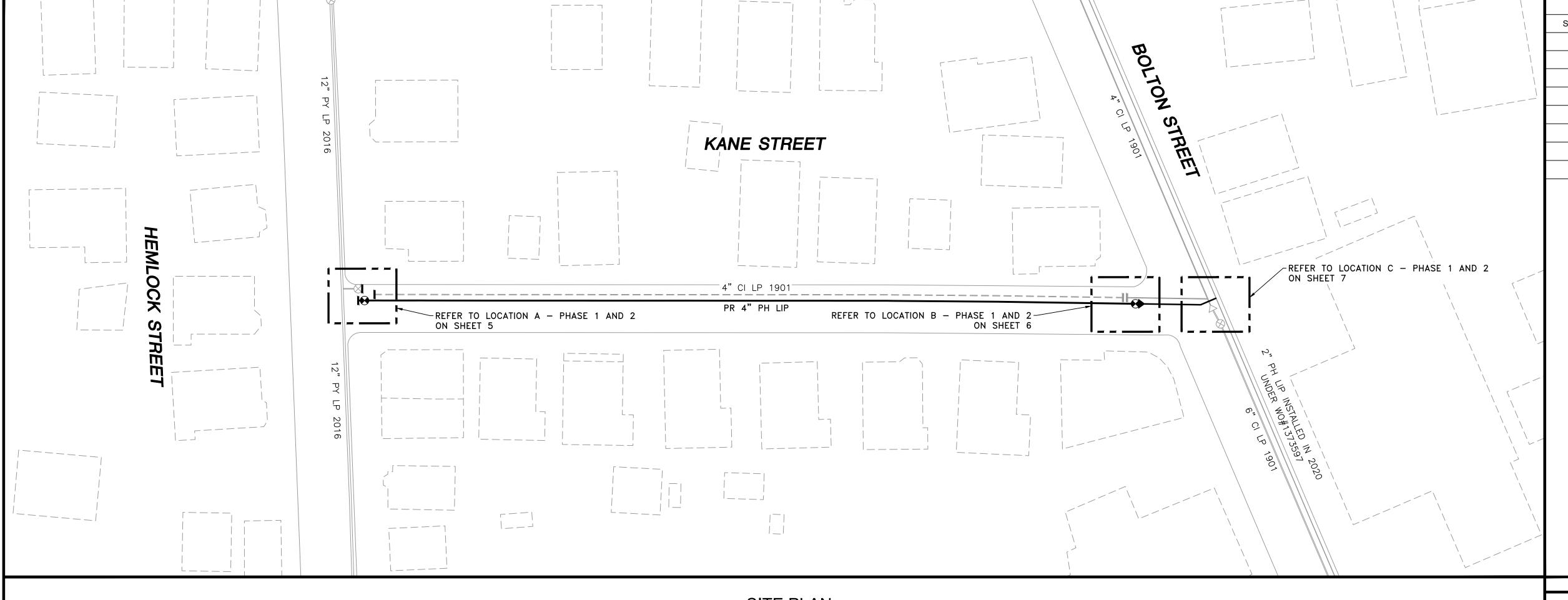


# EVERSEURCE **ENERGY**

KANE STREET MAIN RELAY INSTALLATION OF 395' OF 4" PH LIP GAS MAIN KANE STREET NEW BEDFORD, MASSACHUSETTS ENE PROJECT #: 2005881.23 EVERSOURCE PROJECT #: 4137012





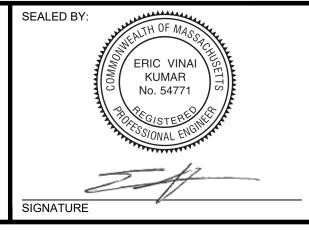


| SHEET INDEX |   |  |
|-------------|---|--|
| IEET NUMBER | DESCRIPTION                                       |  |
| 1           | SITE PLAN, LOCUS PLAN AND SHEET INDEX             |  |
| 2           | GENERAL NOTES                                     |  |
| 3           | INSTALLATION PLAN                                 |  |
| 4           | INSTALLATION PLAN                                 |  |
| 5           | LOCATION A - PHASE 1, 2 AND SCHEDULE OF MATERIALS |  |
| 6           | LOCATION B - PHASE 1, 2 AND SCHEDULE OF MATERIALS |  |
| 7           | LOCATION C - PHASE 1, 2 AND SCHEDULE OF MATERIALS |  |
| 8           | STANDARD CORROSION DETAILS                        |  |

#### SITE PLAN

NEW BEDFORD, MASSACHUSETTS (SCALE: 1"=30') (DO NOT SCALE FROM DRAWINGS)

ISSUED FOR CONSTRUCTION 12/03/2020



| SEALED C              | N:        |  |
|-----------------------|-----------|--|
| 12                    | /04/2020  | DESIGNED IN ACCORDANCE WITH TIT<br>49-PART 192 OF MINIMUM FEDERAL SAF<br>STANDARDS AND GPTC GUIDE FOR G<br>TRANSMISSION AND DISTRIBUTION PIP<br>SYSTEMS. LATEST EDITION. |
| LICENSE<br>EXPIRATION | ON:       | <b>EN</b> Engineering  |
| 06                    | 6/30/2022 | 29 BARTLETT STREET MARLBOROUGH, MA 01752 TEL. (630) 353-4000 FAX (630) 535-7777 WWW.ENENGINEERING.COM  |

**EVERSURCE** KANE STREET MAIN RELAY NEW BEDFORD, MASSACHUSETTS FIELD VERIFY DIMENSIONS

0 ISSUED FOR CONSTRUCTION

NO. DESCRIPTION

PRIOR TO PIPE FABRICATION

SITE PLAN, LOCUS PLAN AND SHEET INDEX SCALE: AS NOTED SHEET 1 OF 8 SHEET NUMBER MA-21-PIP-NEB-006-01

MA21PIPNEB006R0

**REVISION STATUS** 

12/03/2020 TG/AB/EK

DW/CK/AI

DATE

#### **GENERAL NOTES**

- 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 PSIG HP = 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 12/03/2020



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:

ENGINEERING

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
SO

0 ISSUED FOR CONSTRUCTION 12/03/2020 TG/AB/EK
NO. DESCRIPTION DATE DW/CK/AP

REVISION STATUS

EVERSEURCE
ENERGY

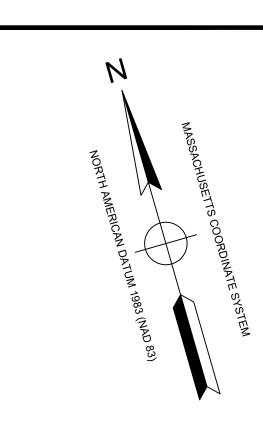
KANE STREET MAIN RELAY
NEW BEDFORD, MASSACHUSETTS

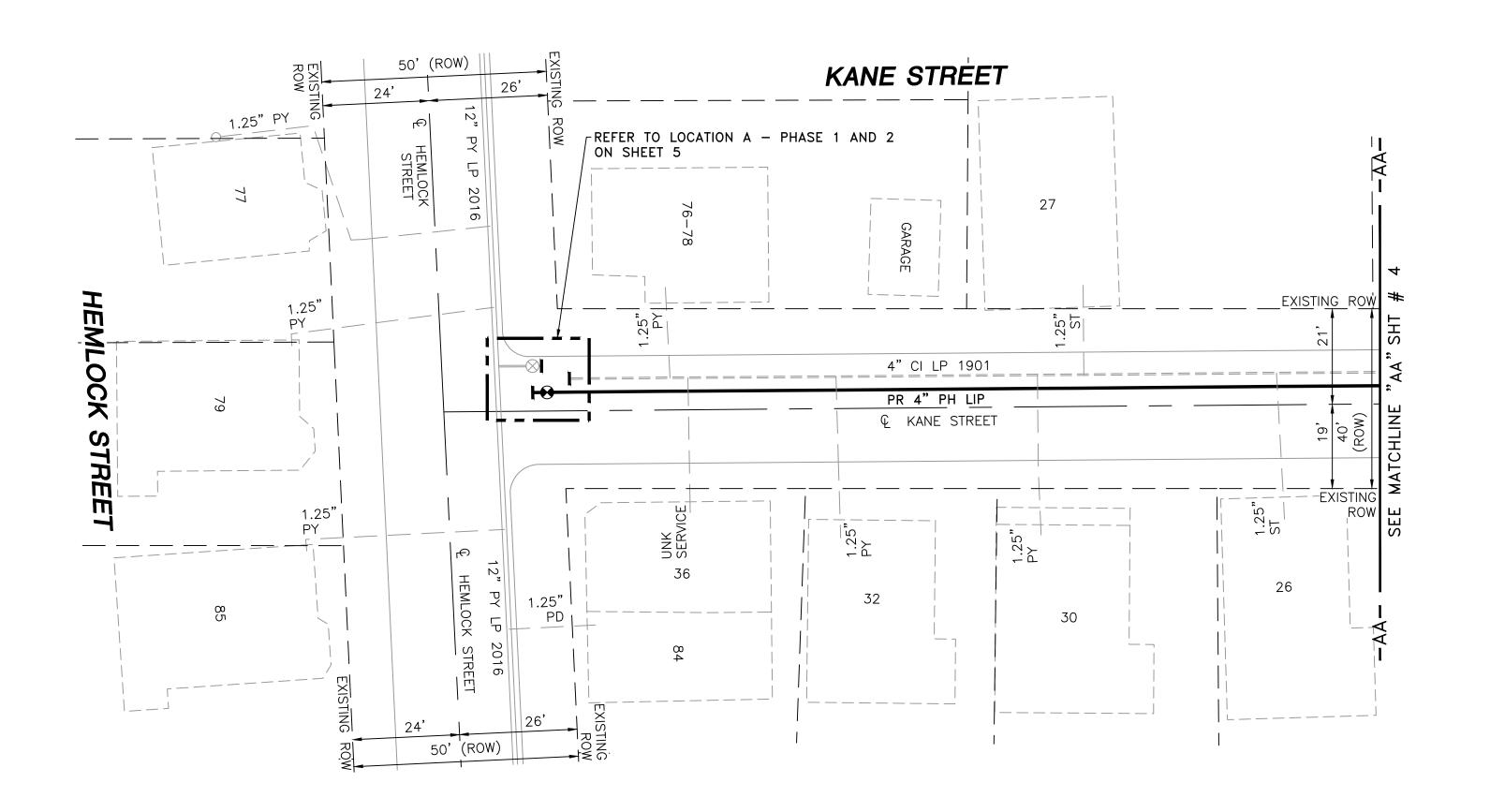
 GENERAL NOTES

 SCALE: NOT TO SCALE
 SHEET 2 OF 8

 DRAWN BY / DATE LR 10/14/2020
 CHECKED BY / DATE AB 12/03/2020
 SHEET NUMBER REV. NOTE AB 12/03/2020
 REV. NOTE AB 12/03/2020

 APPROVED BY / DATE EK 12/03/2020
 MA21PIPNEB006R0
 MA-21-PIP-NEB-006-02
 0







**LOCUS PLAN** NOT TO SCALE

### DRAWING LEGEND

| $\rightarrow$ | UTILITY POLE      |  | EXISTING GAS MAIN |
|---------------|-------------------|--|-------------------|
| *             | LIGHT POLE        | =======  | RETIRED GAS MAIN  |
|               | CATCH BASIN       |  | PROPOSED GAS MAIN |
| 000           | 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       |
|               | EXISTING REDUCER  | •  | PROPOSED REDUCER  |
| l             | EXISTING CAP      | 1  | PROPOSED CAP      |
| $\otimes$     | EXISTING VALVE    | •  | PROPOSED VALVE    |
|               | EXISTING COUPLING |  | PROPOSED COUPLING |
|               |                   |  |                   |

|     |                         |            | *        |
|-----|-------------------------|------------|----------|
| NO. | DESCRIPTION             | DATE       | DW/CK/A  |
| 0   | ISSUED FOR CONSTRUCTION | 12/03/2020 | TG/AB/EI |
|     |                         |            |          |
|     |                         |            |          |
|     |                         |            |          |
|     |                         |            |          |

#### REVISION STATUS

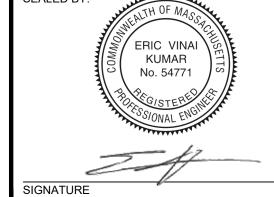
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# **EVERS\$\rightarrow\$URCE**

KANE STREET MAIN RELAY

NEW BEDFORD, MASSACHUSETTS INSTALLATION PLAN SCALE: 1"=20' (DO NOT SCALE FROM DRAWINGS) SHEET 3 OF 8 DRAWN BY / DATE LR 10/14/2020 APPROVED BY / DATE EK 12/03/2020

MA-21-PIP-NEB-006-03



12/04/2020 **EN**Engineering

FIELD VERIFY DIMENSIONS PRIOR TO PIPE FABRICATION

LENGTH SIZE MATERIAL DESCRIPTION INSTALL RETIRE

NOTES:

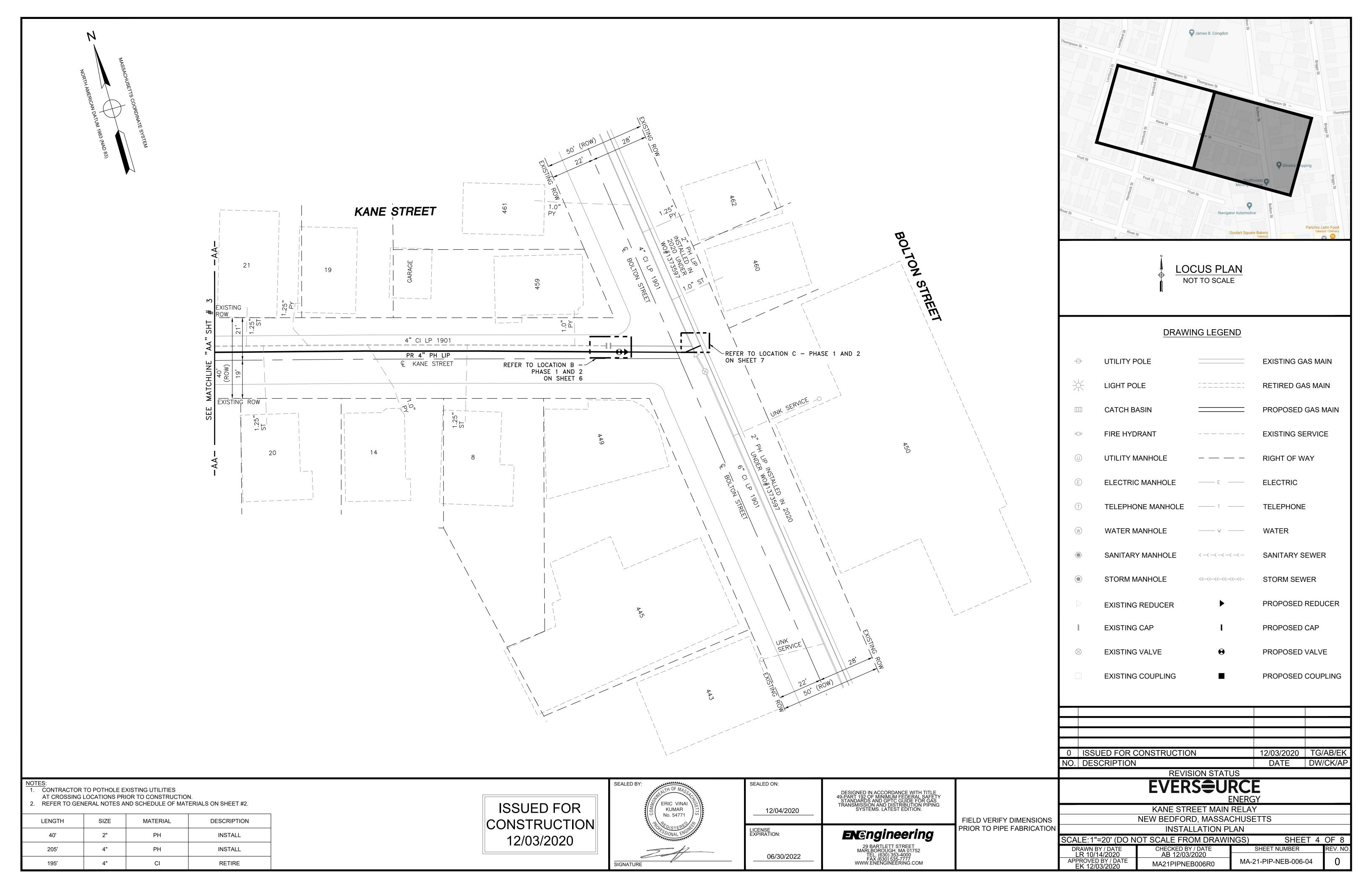
1. CONTRACTOR TO POTHOLE EXISTING UTILITIES
AT CROSSING LOCATIONS PRIOR TO CONSTRUCTION.

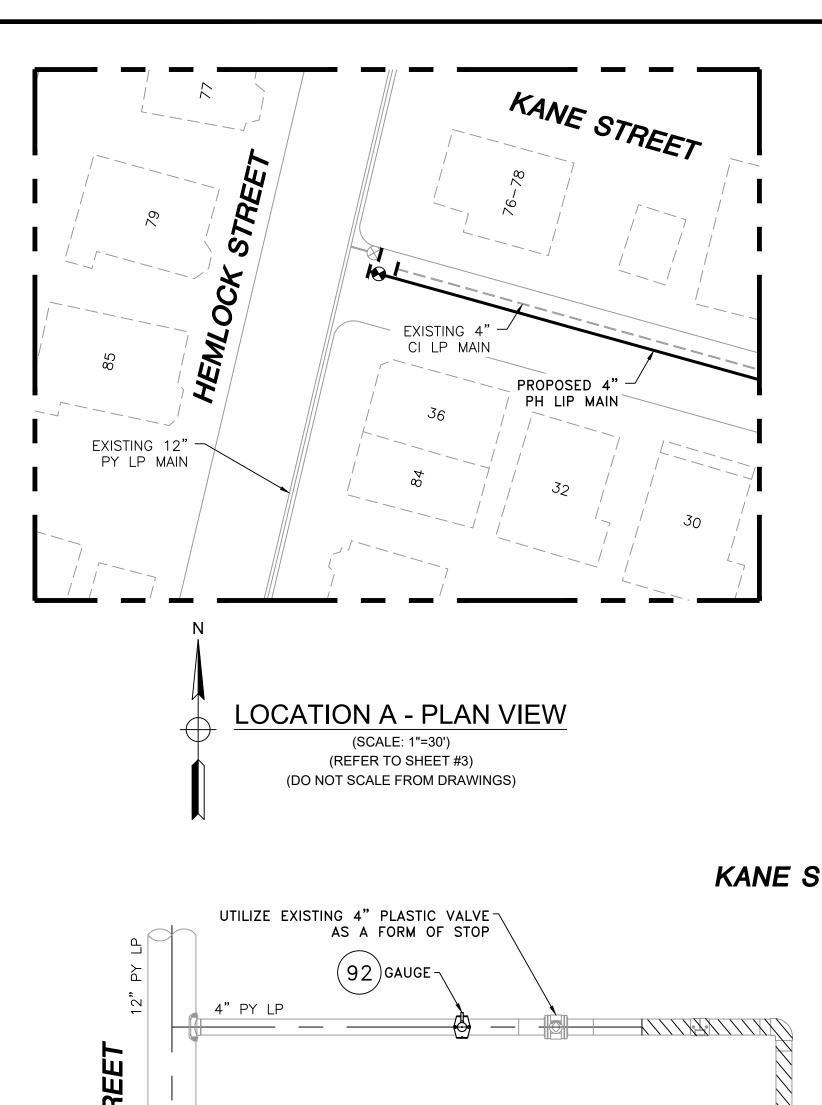
2. REFER TO GENERAL NOTES AND SCHEDULE OF MATERIALS ON SHEET #2.

ISSUED FOR CONSTRUCTION 12/03/2020

LICENSE EXPIRATION: 29 BARTLETT STREET MARLBOROUGH, MA 01752 TEL. (630) 353-4000 FAX (630) 535-7777 WWW.ENENGINEERING.COM 06/30/2022

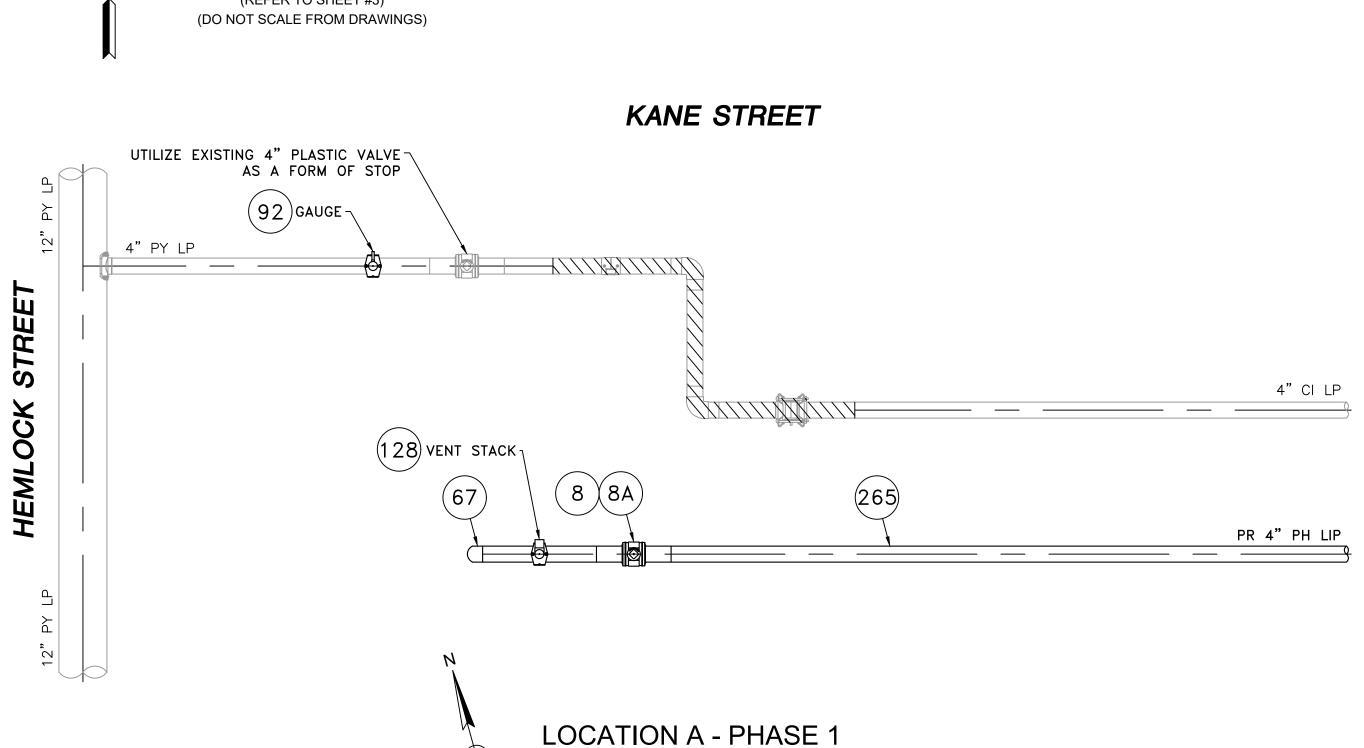
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NOTE:

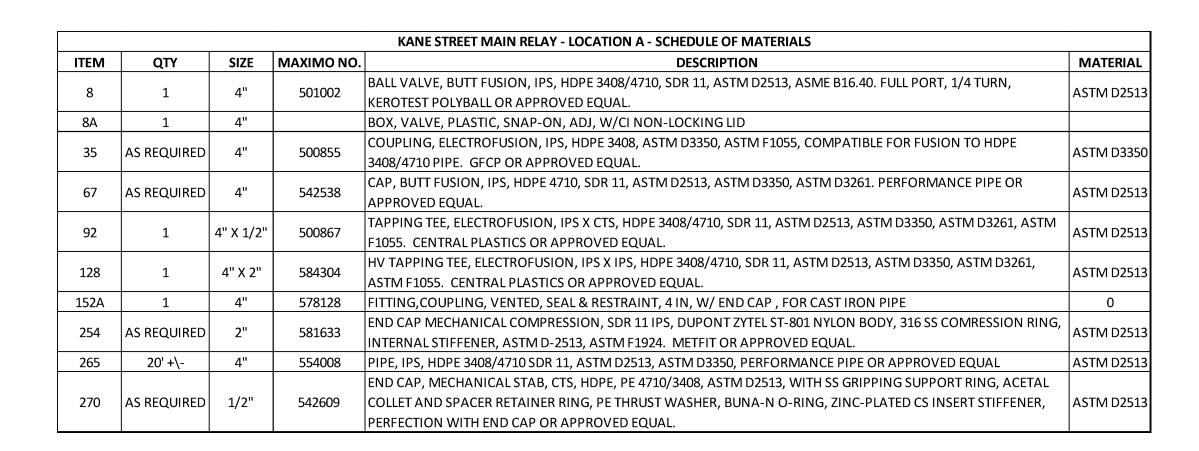
1. REFER TO GENERAL NOTES ON SHEET #2.



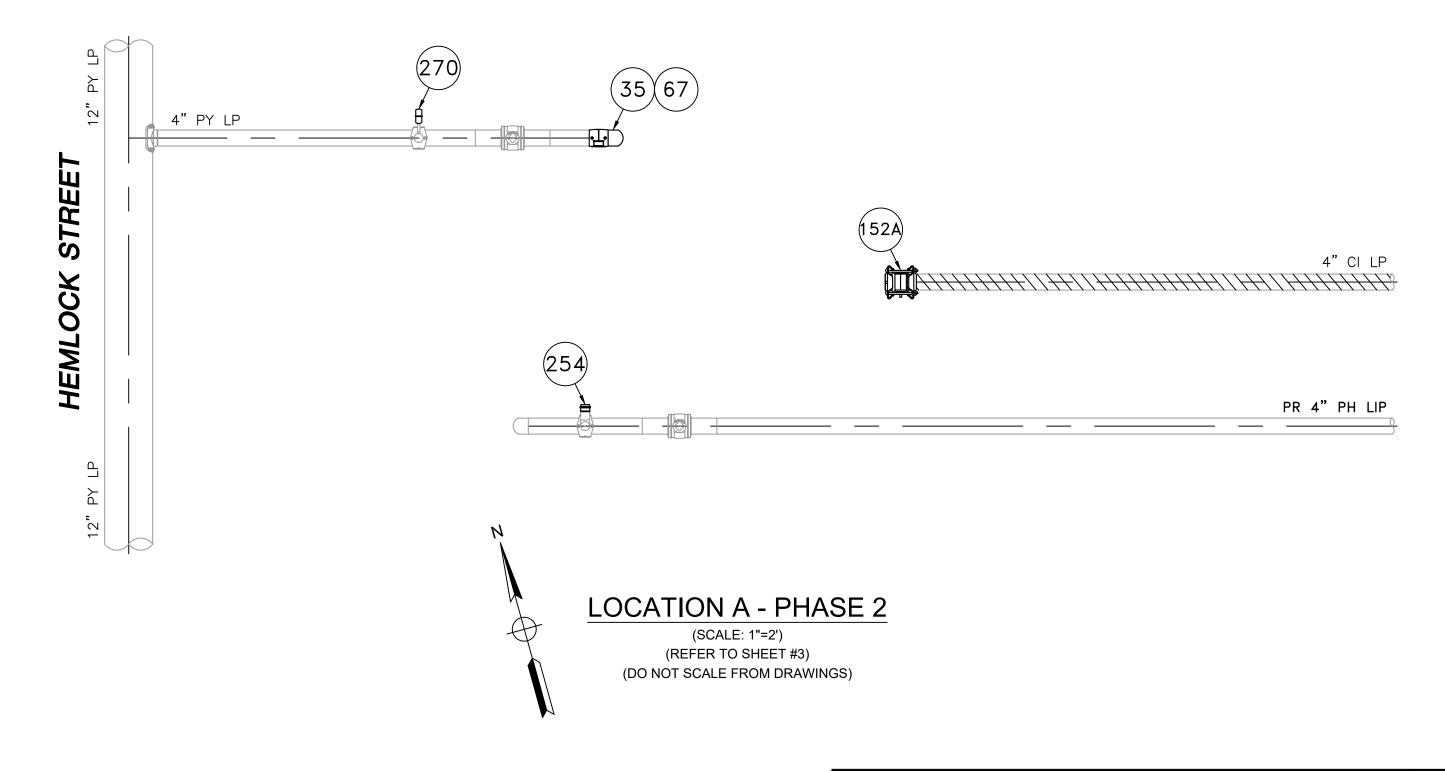
(SCALE: 1"=2')

(REFER TO SHEET #3)

(DO NOT SCALE FROM DRAWINGS)



#### KANE STREET



0 ISSUED FOR CONSTRUCTION 12/03/2020 TG/AB/EK
NO. DESCRIPTION DATE DW/CK/AF

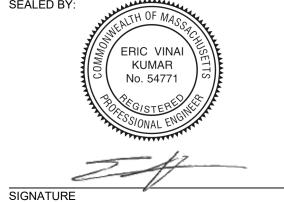
REVISION STATUS

SEALED BY:

DESIGNED IN ACCORDANCE WITH TITLE

DESIGNED IN ACCORDANCE WITH TITLE

ISSUED FOR CONSTRUCTION 12/03/2020



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12/04/2020

06/30/2022

LICENSE EXPIRATION: FIELD VERIFY DIMENSIONS
PRIOR TO PIPE FABRICATION

EVERS URCE
ENERGY
KANE STREET MAIN RELAY

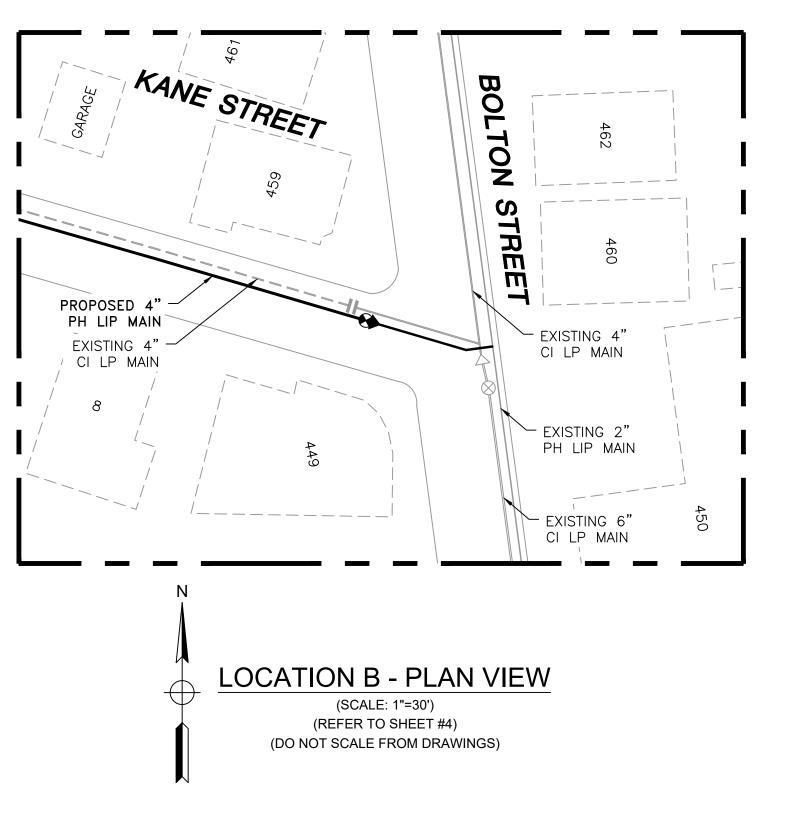
NEW BEDFORD, MASSACHUSETTS

LOCATION A - PHASE 1, 2 AND SCHEDULE OF MATERIALS

 SCALE: AS NOTED
 SHEET 5 OF 8

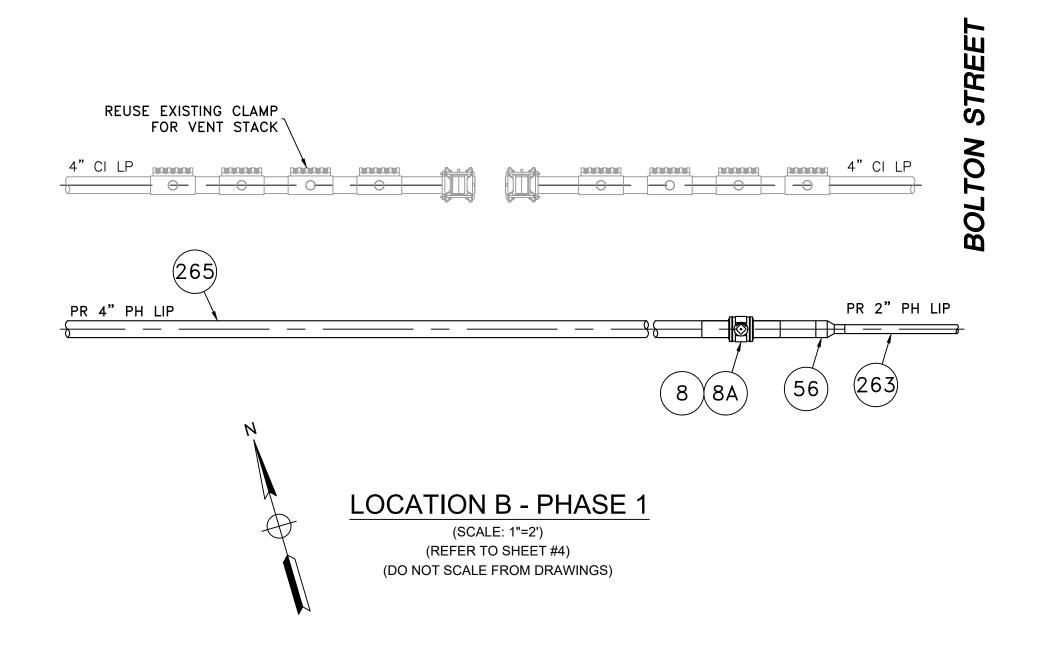
 DRAWN BY / DATE LR 10/14/2020
 CHECKED BY / DATE AB 12/03/2020
 SHEET NUMBER
 REV. NO.

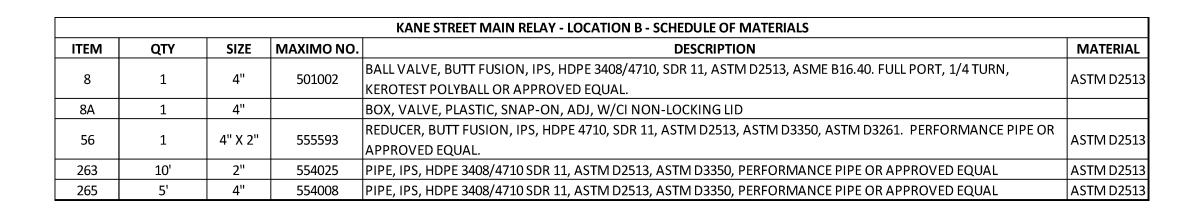
 APPROVED BY / DATE EK 12/03/2020
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 MA-21-PIP-NEB-006-05
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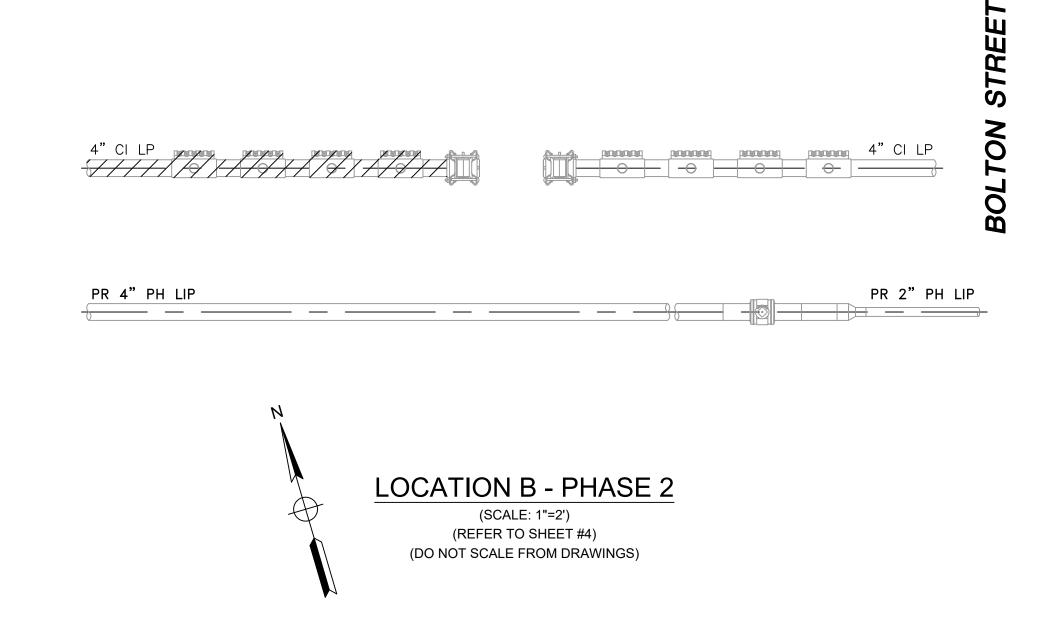
NOTE:
1. REFER TO GENERAL NOTES ON SHEET #2.

#### KANE STREET



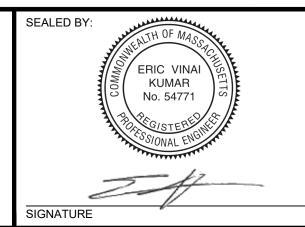


#### KANE STREET



0 ISSUED FOR CONSTRUCTION 12/03/2020 TG/AB/EK
NO. DESCRIPTION DATE DW/CK/AP
REVISION STATUS

ISSUED FOR CONSTRUCTION 12/03/2020



SEALED ON:

LICENSE EXPIRATION:

12/04/2020

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FIELD VERIFY DIMENSIONS PRIOR TO PIPE FABRICATION

EVERS

ENERGY

KANE STREET MAIN RELAY

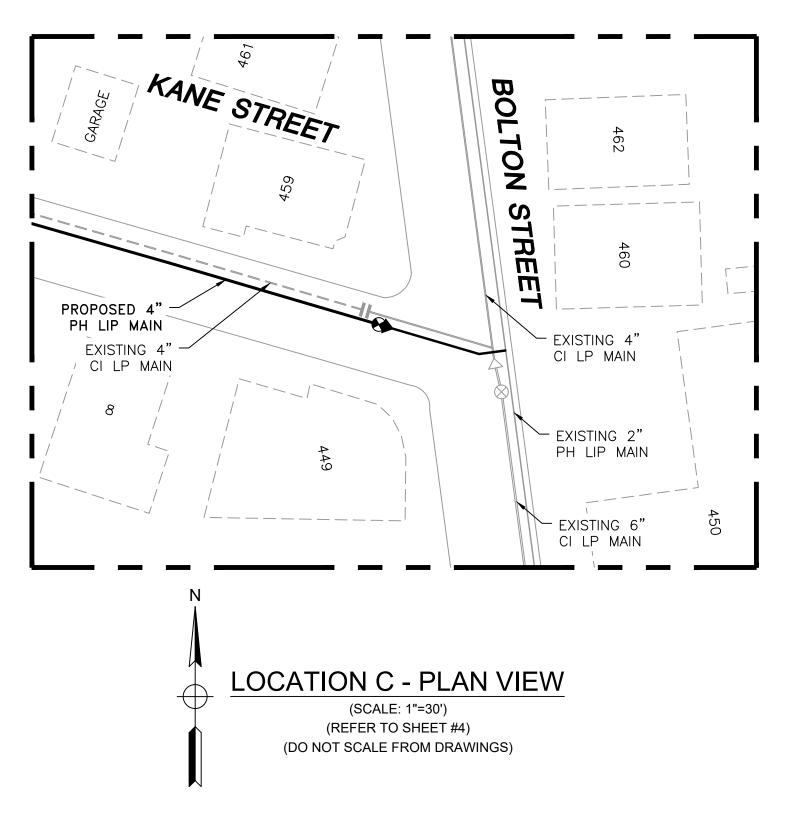
NEW BEDFORD, MASSACHUSETTS

LOCATION B - PHASE 1, 2 AND SCHEDULE OF MATERIALS

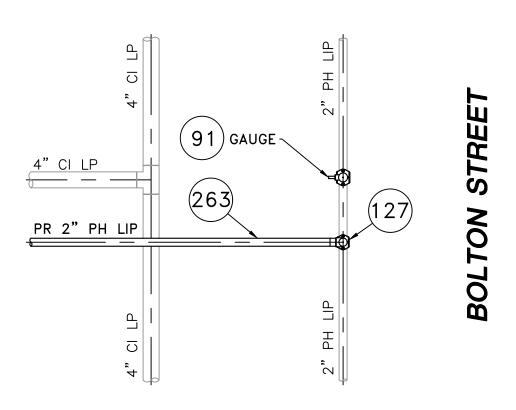
 SCALE: AS NOTED
 SHEET 6 OF 8

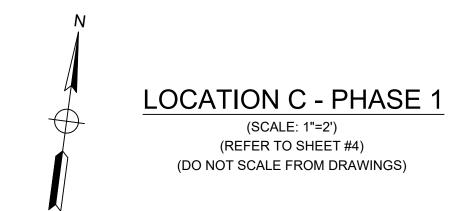
 DRAWN BY / DATE LR 10/14/2020
 CHECKED BY / DATE AB 12/03/2020
 SHEET NUMBER REV. NO. AB 12/03/2020

 APPROVED BY / DATE EK 12/03/2020
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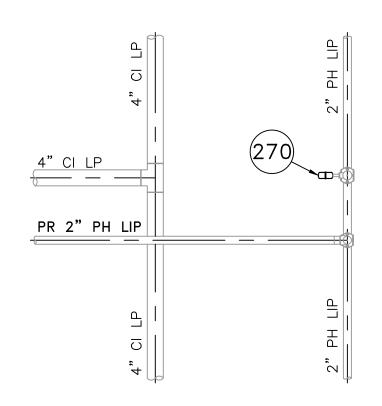
# KANE STREET





| KANE STREET MAIN RELAY - LOCATION C - SCHEDULE OF MATERIALS |                                      |             |                    |  |  |   |            |
|---|--------------------------------------|-------------|--------------------|--|--|---|------------|
| ITEM  | ITEM QTY SIZE MAXIMO NO. DESCRIPTION |             |                    |  | MATERIAL   |   |            |
| 91  | 1                                    | 2" X 1/2"   | 500866             | TAPPING TEE, ELECTROFUSION, IPS X CTS, HDPE 3408/4710, SDR 11, ASTM D2513, ASTM D3350, ASTM D3261 ASTM | ASTM D2513   |   |            |
| 91  |                                      | 1 2 X       | 2 X 1/2            | 2" X 1/2"  | 500800   | F1055. CENTRAL PLASTICS OR APPROVED EQUAL.  | A21MID5212 |
| 127   | 127 1                                |             | 7 1 2              | 2" X 2"  | 584303   | HV TAPPING TEE, ELECTROFUSION, IPS X IPS, HDPE 3408/4710, SDR 11, ASTM D2513, ASTM D3350, ASTM D3261, | ASTM D2513 |
| 127   | 1                                    | J043U3      |                    |  | ASTM F1055. CENTRAL PLASTICS OR APPROVED EQUAL.  | ASTIVI DZ515  |            |
| 263   | 10' +\-                              | 2"          | 554025             | PIPE, IPS, HDPE 3408/4710 SDR 11, ASTM D2513, ASTM D3350, PERFORMANCE PIPE OR APPROVED EQUAL           | ASTM D2513   |   |            |
|   |                                      |             |                    | END CAP, MECHANICAL STAB, CTS, HDPE, PE 4710/3408, ASTM D2513, WITH SS GRIPPING SUPPORT RING, ACETAL   |  |   |            |
| 270   | AS REQUIRED                          | QUIRED 1/2" | QUIRED 1/2" 542609 | 542609   | COLLET AND SPACER RETAINER RING, PE THRUST WASHER, BUNA-N O-RING, ZINC-PLATED CS INSERT STIFFENER, | ASTM D2513  |            |
|   |                                      |             |                    | PERFECTION WITH END CAP OR APPROVED EQUAL.   |  |   |            |

## KANE STREET



LOCATION C - PHASE 2

(SCALE: 1"=2')
(REFER TO SHEET #4)
(DO NOT SCALE FROM DRAWINGS)

| 0   | ISSUED FOR CONSTRUCTION | 12/03/2020 | TG/AB/EK |
|-----|-------------------------|------------|----------|
| NO. | DESCRIPTION             | DATE       | DW/CK/AP |
|     | REVISION STATUS         |            |          |

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

ISSUED FOR CONSTRUCTION 12/03/2020

| SEALED BY: | WEALTH OF MASSA  |
|------------|--|
| ОММОО      | ERIC VINAI KUMAR No. 54771   |
| 1\         | CONTESTER OF THE STATE OF THE S |
|            | WINT OWN   |
| SIGNATURE  |  |

| STANDARDS AND GPTC GUIDE FOR GAS | LICENSE<br>EXPIRATION: | <b>EN</b> @naineerina   |
|----------------------------------|------------------------|---|
|                                  |                        | 49-PART 192 OF MINIMUM FÉDERAL SAFETY<br>STANDARDS AND GPTC GUIDE FOR GAS<br>TRANSMISSION AND DISTRIBUTION PIPING |

DEFINITION: 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

EVERSEURCE
ENERGY

KANE STREET MAIN RELAY
NEW BEDFORD, MASSACHUSETTS

| LOCATION C - PHASE 1, 2 AND SCHEDULE OF MATERIALS |                   |                      |          |
|---|-------------------|----------------------|----------|
| SCALE: AS NOTED                                   |                   | SHEET 7              | OF 8     |
| DRAWN BY / DATE                                   | CHECKED BY / DATE | SHEET NUMBER         | REV. NO. |
| LR 10/14/2020                                     | AB 12/03/2020     |                      |          |
| APPROVED BY / DATE                                | MA21PIPNEB006R0   | MA-21-PIP-NEB-006-07 | 0        |

