

APPLICATION/AGREEMENT

Permit # 41-2021

For Trench/Disturbance Permit within the City of New Bedford

Dig Safe: 20210400339

Date: 1/25/2021

TO THE MAYOR AND CITY COUNCIL: DISTURBANCE PERMIT/TRENCH SAFETY PERMIT

Permission is hereby requested to excavate the surface of :  City Property and/or  Private Property

Provide Sketch

Location of Work: Pleasant St.

Wking from Walnut St to Bedford St

Relay Gas Main and Services

Work will begin (weather permitting) on: February 8, 2021

Applicant Name: Kevin O'Sullivan (ra) Excavator(s) Name: \_\_\_\_\_

Company Name: Eversource Hoisting Equipment License Number: \_\_\_\_\_

Grade: \_\_\_\_\_ Expiration Date: \_\_\_\_\_

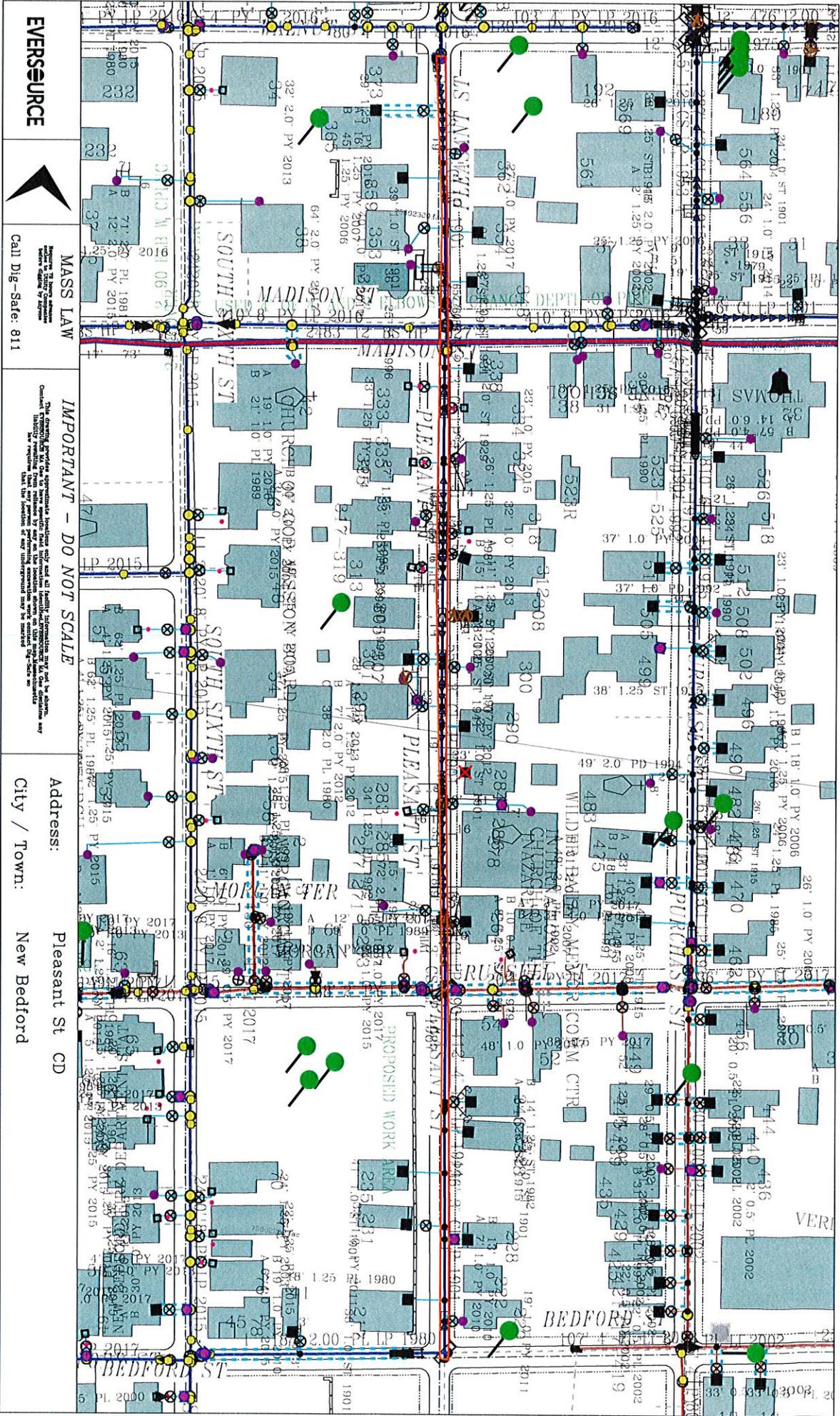
Contact Number: 508-441-5817 Name & Contact Number of Insurer: \_\_\_\_\_

\_\_\_\_\_

Competent Person on Work Site: ON FILE APPROVED BY: \_\_\_\_\_ DATE: \_\_\_\_\_

TITLE: \_\_\_\_\_

**This permit shall be posted at the work site, and shall remain until the work is completed. It is subject to inspection at all times.**



**EVERSOURCE**



**MASS LAW**

Regulate the location, construction, and use of utility facilities.  
 Call Dig-Safe: 811

**IMPORTANT - DO NOT SCALE**

This drawing is for informational purposes only and does not constitute a contract. The information shown on this drawing is based on the best available information and is not guaranteed. The user of this drawing is responsible for verifying the accuracy of the information shown on this drawing. The user of this drawing is also responsible for obtaining all necessary permits and approvals from the appropriate authorities. The user of this drawing is also responsible for obtaining all necessary easements and rights-of-way from the appropriate authorities. The user of this drawing is also responsible for obtaining all necessary approvals from the appropriate authorities. The user of this drawing is also responsible for obtaining all necessary approvals from the appropriate authorities.

Address: Pleasant St CD  
 City / Town: New Bedford

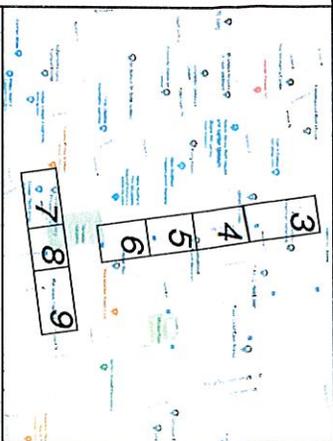
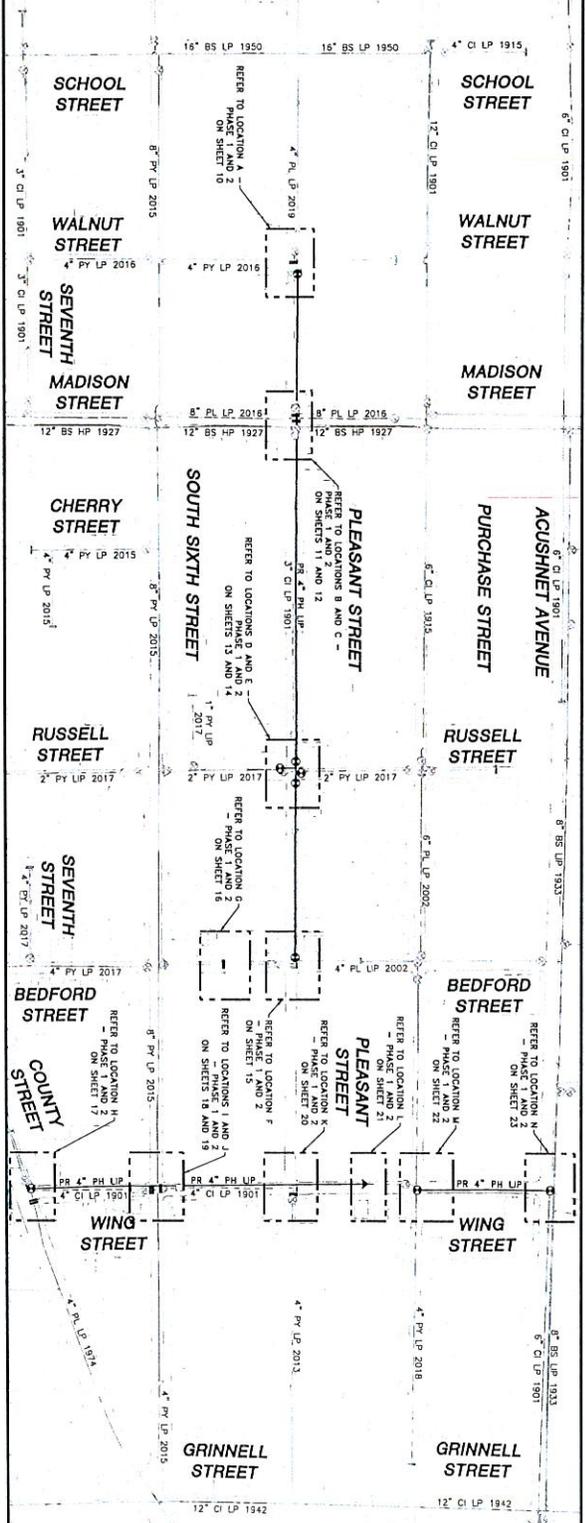
EVERSOURCE MA GAS  
 One NSTAR Way  
 Westwood, MA 02090  
 Phone 1-800-592-2000

Date Plotted: 01/27/2021



# EVERSOURCE ENERGY

PLEASANT STREET AND WING STREET MAIN RELAYS  
 INSTALLATION OF 2160' OF 4" PH LIP GAS MAIN AND 40' OF 2" PH LIP GAS MAIN  
 PLEASANT STREET AND WING STREET  
 NEW BEDFORD, MASSACHUSETTS  
 ENE PROJECT #: 2005881.59  
 EVERSOURCE PROJECT #:

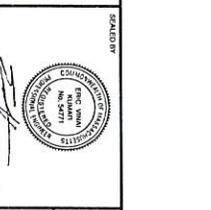


LOCUS PLAN  
 NOT TO SCALE

SHEET NUMBER	DESCRIPTION
1	SITE PLAN, LOCUS PLAN AND SHEET INDEX
2	GENERAL NOTES AND WORK ORDER SET MAP
3	INSTALLATION PLAN
4	INSTALLATION PLAN
5	INSTALLATION PLAN
6	INSTALLATION PLAN
7	INSTALLATION PLAN
8	INSTALLATION PLAN
9	LOCATION A, PHASE 1, 2 AND SCHEDULE OF MATERIALS
10	LOCATION B, PHASE 1, 2 AND SCHEDULE OF MATERIALS
11	LOCATION C, PHASE 1, 2 AND SCHEDULE OF MATERIALS
12	LOCATION D, PHASE 1, 2 AND SCHEDULE OF MATERIALS
13	LOCATION E, PHASE 1, 2 AND SCHEDULE OF MATERIALS
14	LOCATION F, PHASE 1, 2 AND SCHEDULE OF MATERIALS
15	LOCATION G, PHASE 1, 2 AND SCHEDULE OF MATERIALS
16	LOCATION H, PHASE 1, 2 AND SCHEDULE OF MATERIALS
17	LOCATION I, PHASE 1, 2 AND SCHEDULE OF MATERIALS
18	LOCATION J, PHASE 1, 2 AND SCHEDULE OF MATERIALS
19	LOCATION K, PHASE 1, 2 AND SCHEDULE OF MATERIALS
20	LOCATION L, PHASE 1, 2 AND SCHEDULE OF MATERIALS
21	LOCATION M, PHASE 1, 2 AND SCHEDULE OF MATERIALS
22	LOCATION N, PHASE 1, 2 AND SCHEDULE OF MATERIALS
23	STANDARD CORROSION DETAILS
24	

**SITE PLAN**  
 NEW BEDFORD, MASSACHUSETTS  
 SCALE 1/8"=1'-0"  
 DO NOT SCALE FROM DIMENSIONS

ISSUED FOR CONSTRUCTION  
 01/20/2021



DATE: 01/20/2021  
 PROJECT: 06030/2022  
**Engineering**  
 100 WASHINGTON STREET, SUITE 200  
 NEW BEDFORD, MASSACHUSETTS 01942  
 WWW.ENGINEERING.COM

FIELD VERIFY DIMENSIONS  
 PRIOR TO PIPE FABRICATION

NO.	DESCRIPTION	DATE	BY
0	ISSUED FOR CONSTRUCTION	01/20/2021	W.S.MATHER
1	REVISION STATUS		

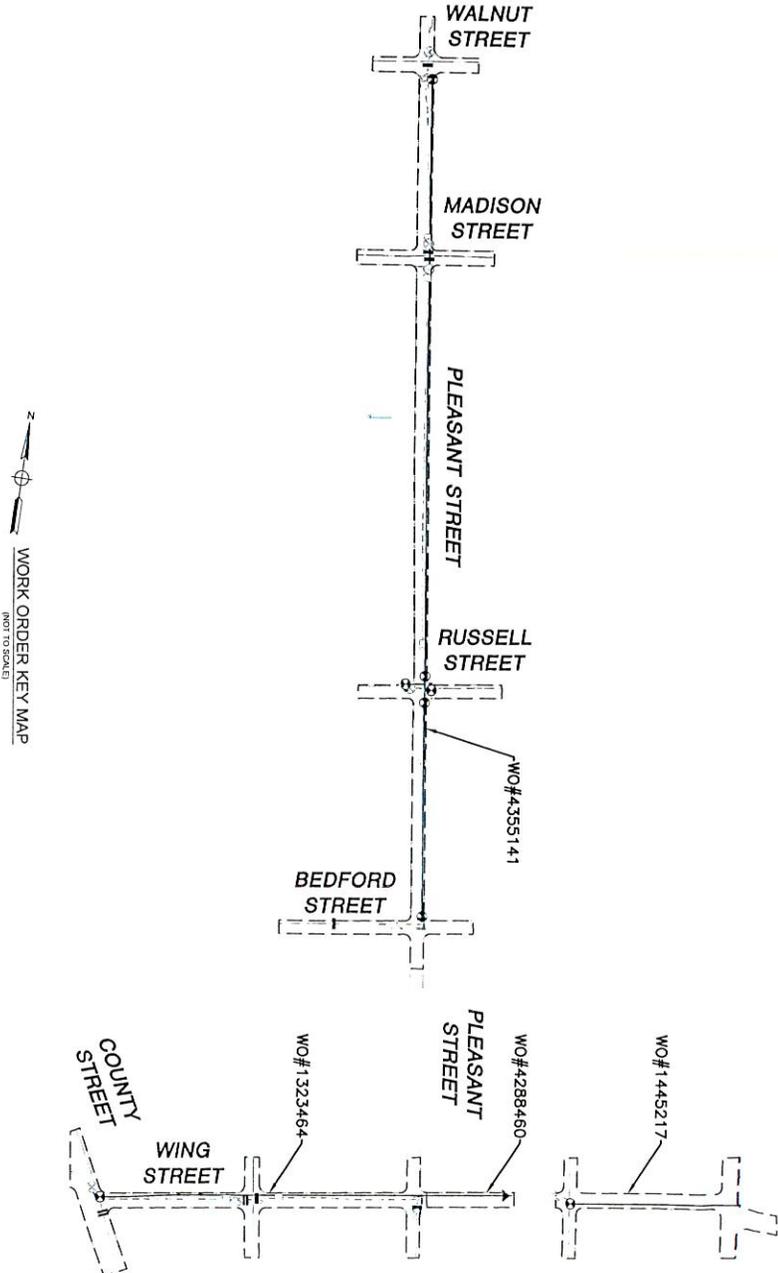
**EVERSOURCE ENERGY**  
 PLEASANT STREET AND WING STREET MAIN RELAY  
 NEW BEDFORD, MASSACHUSETTS  
 SITE PLAN, LOCUS PLAN AND SHEET INDEX

SCALE AS NOTED  
 DRAWN BY: J.M.  
 CHECKED BY: J.M.  
 APPROVED BY: J.M.  
 DATE: 01/20/2021

PROJECT NO: MA-NEB-24-PIP-02B-01  
 SHEET NO: 1 OF 24  
 REV NO: 0

**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 UNDER THE ENGINEER OF RECORD'S SUPERVISION.
  - a. IF A CHANGE IN THE LOCATION OF VALVES IS REQUIRED
  - b. IF A CHANGE IN THE LOCATION OF FITTINGS IS REQUIRED
  - c. IF THERE IS ANY CHANGE TO WHAT IS SHOWN ON THE DRAWING WITHIN 50 FT OF A 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 OFFSITE/LOCAL BEFORE YOU DIG (CALL 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 PRELUDE.
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 TO THEIR EXISTING RESURFACING LOCATION.
11. IF THE PROJECT IS WITHIN 50 FEET OF A DISTRICT REGULATOR OR GATE STATION, ENSURE THAT A QUALIFIED AIR 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 PLANS 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-305.
17. MAOP:
  - LP - 4.47 M.G.
  - LP - 38 PSIG
  - HP - 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-433
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. METRIT FITTINGS MAY BE SUBSTITUTED FOR ELECTROFUSION FITTINGS WHERE NEEDED.
25. DO NOT SCALE FROM DRAWINGS.



WORK ORDER KEY MAP  
(NOT TO SCALE)

ISSUED FOR CONSTRUCTION  
01/20/2021



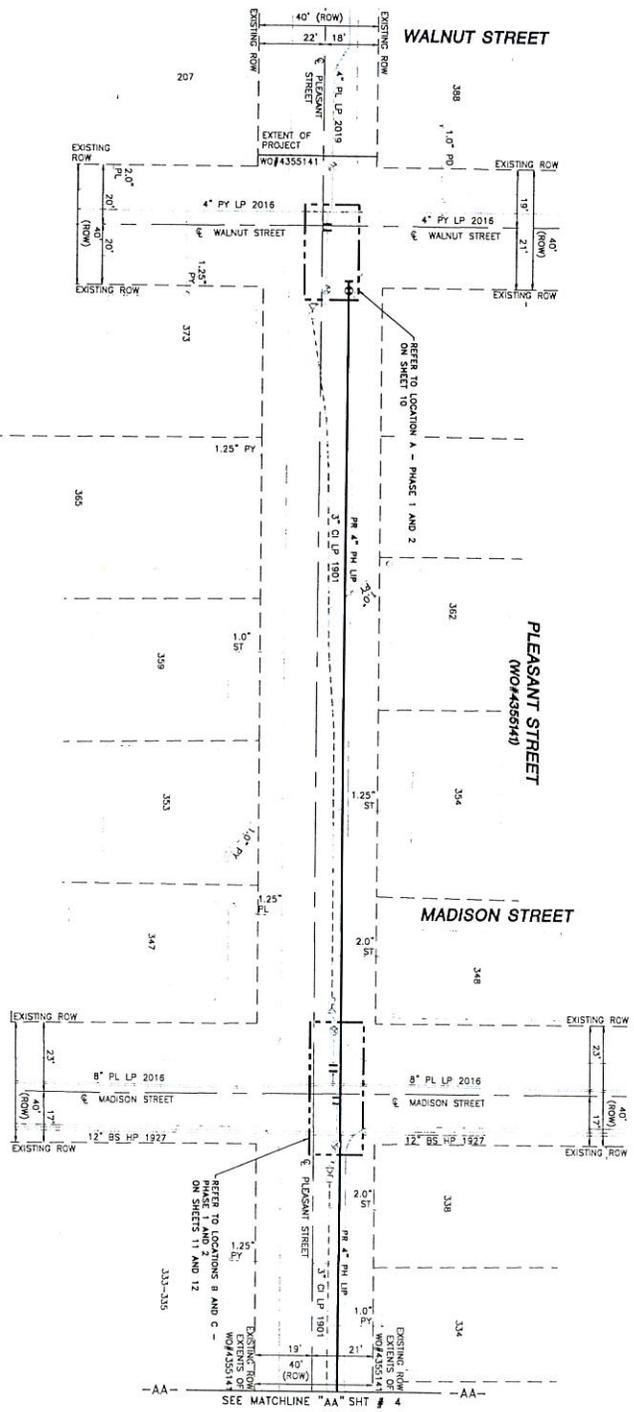
SCALE: 01/20/2021  
DATE: 06/30/2022

DESIGNED BY: EVERSOURCE ENERGY  
DRAWN BY: EVERSOURCE ENERGY  
CHECKED BY: EVERSOURCE ENERGY  
DATE: 01/20/2021  
WWW.DISTRICTENGINEERING.COM

FIELD VERIFY DIMENSIONS PRIOR TO THE FABRICATION

REVISION STATUS	
NO.	DESCRIPTION
0	ISSUED FOR CONSTRUCTION
01/20/2021	ISSUER
	DATE
	DWG/CHK

EVERSOURCE ENERGY  
PLEASANT STREET AND WING STREET MAIN RELAY  
NEW BEDFORD, MASSACHUSETTS  
GENERAL NOTES AND WORK ORDER KEY MAP  
SCALE: NOT TO SCALE  
DATE: 01/20/2021  
BY: 12/05/2020  
REV: 01/20/2021  
CHECKED BY: DATE: SHEET NUMBER: SHEET 2 OF 24  
MANEED1PH028RD MA-HEB-21-PR-42842 0



- NOTES
1. CONTRACTOR TO PONDAGE EXISTING UTILITIES.
  2. AT CROSSING LOCATIONS PRIOR TO CONSTRUCTION SHALL E.O.N. SHEET # 2.
  3. HOPE ADJUST TO ALLOW FOR TO BE INSTALLED AS REQUIRED TO INDICATE OFFSET IN FIELD.

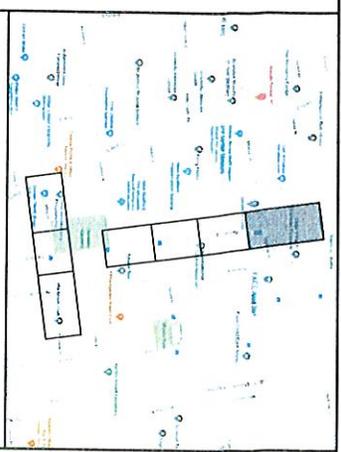
LENGTH	SIZE	MATERIAL	DESCRIPTION
310'	4"	PP	INSTALL
310'	3"	CI	REPAIR
60'	4"	PP	REPAIR

ISSUED FOR  
CONSTRUCTION  
01/20/2021



**Energyline**  
 450 STATE STREET, SUITE 200  
 WILMINGTON, MASSACHUSETTS 01890  
 TEL: 978.251.1111  
 WWW.ENERGYLINE.COM

FIELD VERIFY DIMENSIONS  
PRIOR TO PIPE FABRICATION



**DRAWING LEGEND**

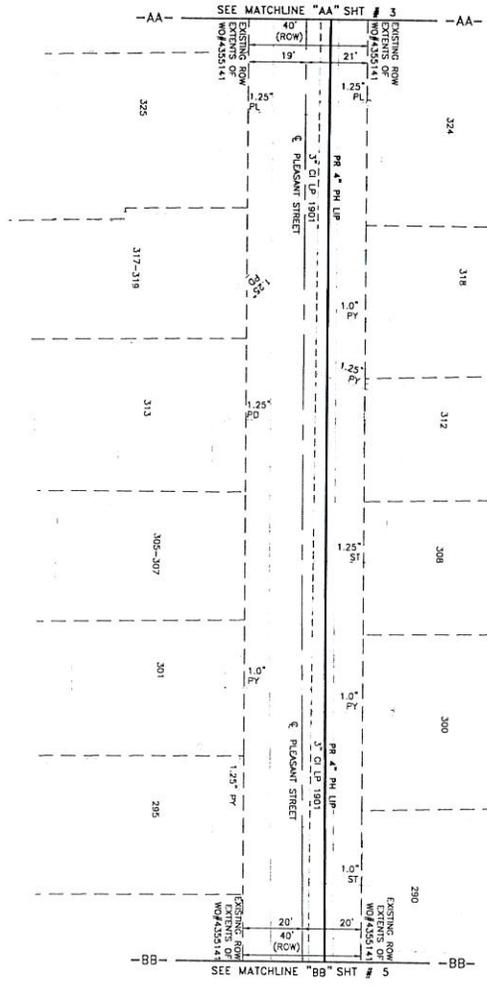
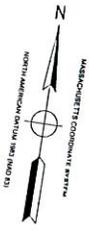
	EXISTING GAS MAIN
	RETIRED GAS MAIN
	PROPOSED GAS MAIN
	EXISTING SERVICE
	RIGHT OF WAY
	ELECTRIC
	TELEPHONE
	WATER
	SANITARY SEWER
	STORM SEWER
	PROPOSED REDUCER
	PROPOSED CAP
	PROPOSED VALVE
	PROPOSED ANODE

**REVISION STATUS**

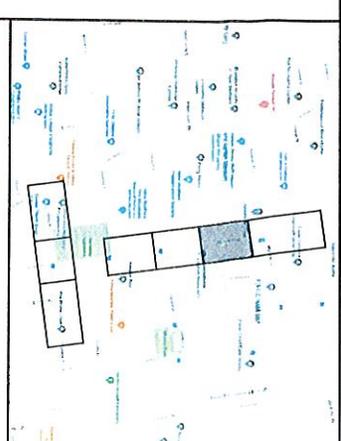
NO.	DESCRIPTION	DATE	WS/ABEK
0	ISSUED FOR CONSTRUCTION	01/20/2021	WS/ABEK

**EVERSOURCE**  
 ENERGY  
 PLEASANT STREET AND WING STREET MAIN RELAY  
 NEW BEDFORD, MASSACHUSETTS  
 INSTALLATION PLAN

SCALE: 1"=20' (DO NOT SCALE FROM DRAWINGS)  
 SHEET 3 OF 24  
 DATE: 01/20/2021  
 MANAGER: PHIPPSBRO



PLEASANT STREET  
(WMA#4365541)



**DRAWING LEGEND**

UTILITY POLE	EXISTING GAS MAIN
LIGHT POLE	RETIRED GAS MAIN
CATCH BASIN	PROPOSED GAS MAIN
FIRE HYDRANT	EXISTING SERVICE
UTILITY MANHOLE	RIGHT OF WAY
ELECTRIC MANHOLE	ELECTRIC
TELEPHONE MANHOLE	TELEPHONE
WATER MANHOLE	WATER
SANITARY MANHOLE	SANITARY SEWER
STORM MANHOLE	STORM SEWER
EXISTING REDUCER	PROPOSED REDUCER
EXISTING CAP	PROPOSED CAP
EXISTING VALVE	PROPOSED VALVE
EXISTING COUPLING	PROPOSED ANODE

NO.	DESCRIPTION	DATE	BY
0	ISSUED FOR CONSTRUCTION	01/20/2021	WS/ABEK

**EVERSOURCE**

ENERGY  
PLEASANT STREET AND WING STREET MAIN RELAY  
NEW BEDFORD, MASSACHUSETTS  
INSTALLATION PLAN

SCALE: 1"=20' (DO NOT SCALE FROM DRAWINGS)	SHEET 4 OF 24
DATE: 01/20/2021	REV NO: 0
PROJECT NO: MA-NER-21-PIP-029-04	
DRAWN BY: MA-NER-21-PIP-029-04	

ISSUED FOR CONSTRUCTION  
01/20/2021



SCALE: 1"=20'  
DATE: 01/20/2021  
PROJECT NO: 062307022

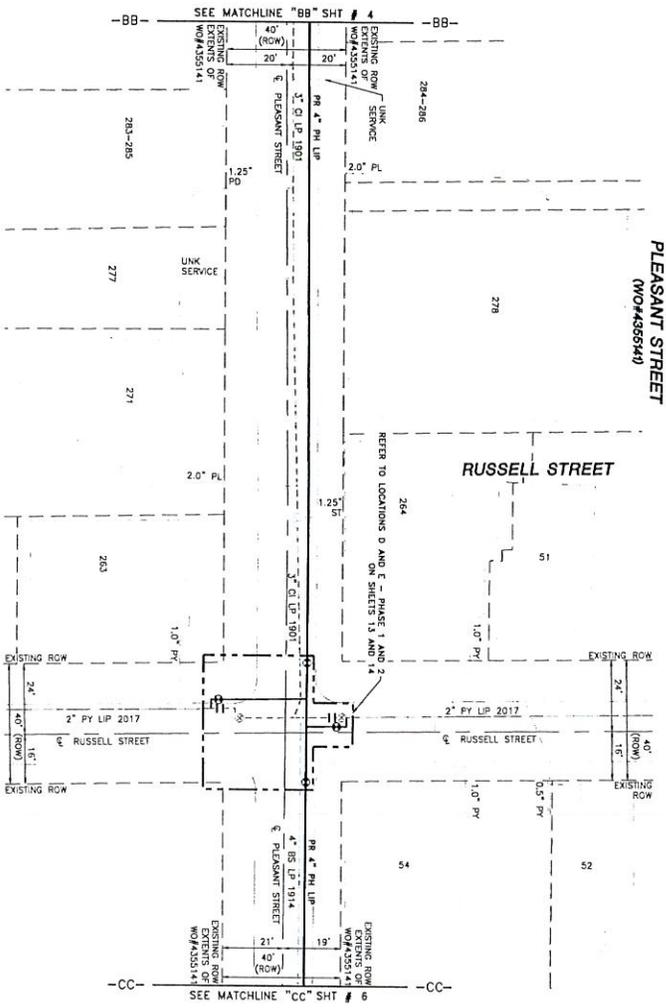
ENGINEERING  
400 STATE STREET, SUITE 100  
NEW BEDFORD, MA 01945  
WWW.ENGINEERING.COM

FIELD VERIFY DIMENSIONS  
PRIOR TO PIPE FABRICATION

NOTES

1. REFER TO THE GENERAL NOTES AND SPECIFICATIONS.
2. REFER TO GENERAL NOTES AND SPECIFICATIONS OF MATERIALS ON SHEET #2.
3. HOPE JOINTS TO BE INSTALLED AS REQUIRED TO INDICATE OFFSETS IN FIELD.

LENGTH	SIZE	MATERIAL	DESCRIPTION
315	4"	PM	INSTALL
315	3"	CI	RETIRE



NOTE:  
 1. CONTRACTOR TO POINOLE EXISTING UTILITIES  
 2. AT CROSSING LOCATIONS PRIOR TO CONSTRUCTION  
 3. HOPE IDENTIFY ELBOWS TO BE INSTALLED AS REQUIRED TO MAINTAIN OFFSETS IN FIELD

LENGTH	SIZE	MATERIAL	DESCRIPTION
42'	2"	PH	INSTALL
30'	2"	PH	INSTALL
5'	2"	PH	RETIRED
259'	3"	CS	RETIRED
50'	4"	BS	RETIRED

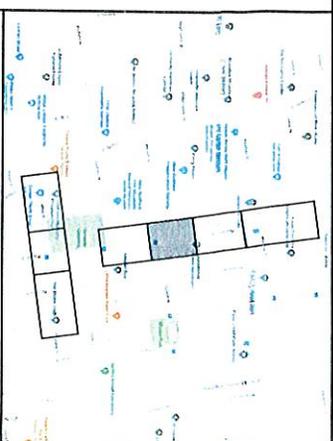
ISSUED FOR CONSTRUCTION  
 01/20/2021



SCALE: 1" = 20'  
 01/20/2021  
 06/20/2022  
**Engineering**  
 300 STATE STREET  
 SUITE 200  
 WILMINGTON, MA 01897  
 WWW.ENGINEERINGMA.COM

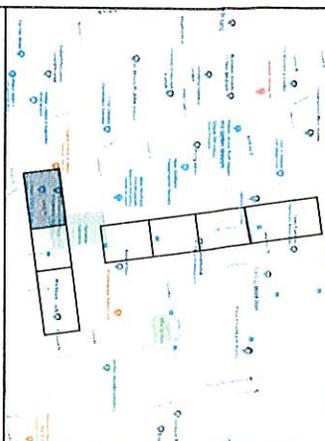
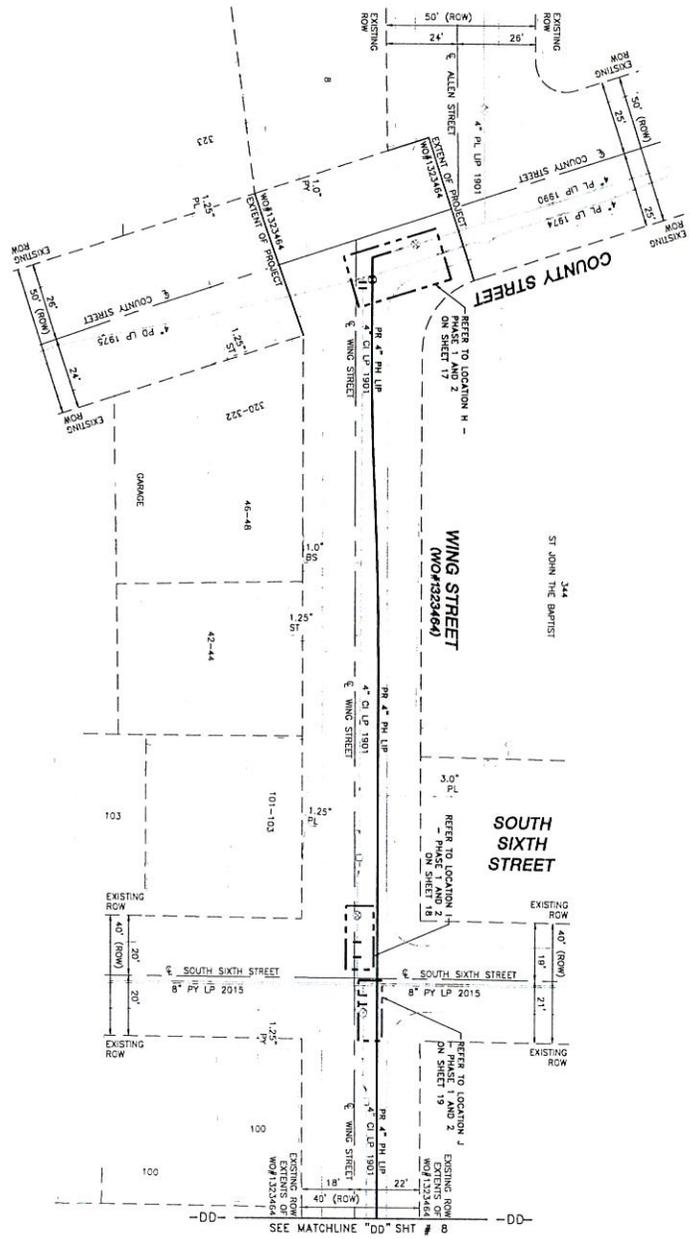
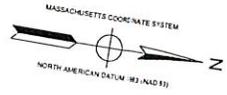
NO.	DESCRIPTION	REVISION STATUS	DATE	BY
0	ISSUED FOR CONSTRUCTION		01/20/2021	W.S.MAGER

SYMBOL	DESCRIPTION	STATUS
—	UTILITY POLE	EXISTING GAS MAIN
—	LIGHT POLE	RETIRED GAS MAIN
—	CATCH BASIN	PROPOSED GAS MAIN
—	FIRE HYDRANT	EXISTING SERVICE
—	UTILITY MANHOLE	RIGHT OF WAY
—	ELECTRIC MANHOLE	ELECTRIC
—	TELEPHONE MANHOLE	TELEPHONE
—	WATER MANHOLE	WATER
—	SANITARY MANHOLE	SANITARY SEWER
—	STORM MANHOLE	STORM SEWER
—	EXISTING REDUCER	PROPOSED REDUCER
—	EXISTING CAP	PROPOSED CAP
—	EXISTING VALVE	PROPOSED VALVE
—	EXISTING COUPLING	PROPOSED ANODE



**EVERSOURCE**  
 ENERGY  
 PLEASANT STREET AND WING STREET MAIN RELAY  
 NEW BEDFORD, MASSACHUSETTS  
 INSTALLATION PLAN  
 SHEET 5 OF 24  
 DATE: 01/20/2021  
 MAN: EB-1-PP-029-05  
 0





**DRAWING LEGEND**

UTILITY POLE	EXISTING GAS MAIN
LIGHT POLE	RETIRED GAS MAIN
CATCH BASIN	PROPOSED GAS MAIN
FIRE HYDRANT	EXISTING SERVICE
UTILITY MANHOLE	RIGHT OF WAY
ELECTRIC MANHOLE	ELECTRIC
TELEPHONE MANHOLE	TELEPHONE
WATER MANHOLE	WATER
SANITARY MANHOLE	SANITARY SEWER
STORM MANHOLE	STORM SEWER
EXISTING REDUCER	PROPOSED REDUCER
EXISTING CAP	PROPOSED CAP
EXISTING VALVE	PROPOSED VALVE
EXISTING COUPLING	PROPOSED ANODE

NO.	DESCRIPTION	DATE	BY
0	ISSUED FOR CONSTRUCTION	01/20/2021	W.SABER
1	REVISION STATUS		

**EVERSOURCE ENERGY**

PLEASANT STREET AND WING STREET MAIN RELAY  
 NEW BEDFORD, MASSACHUSETTS

SCALE: 1"=20'	DO NOT SCALE	DATE: 01/20/2021	SHEET: 7 OF 24
DATE: 01/20/2021	PROJECT: NEW BEDFORD, MASSACHUSETTS	DATE: 01/20/2021	SHEET: 7 OF 24
DATE: 01/20/2021	PROJECT: NEW BEDFORD, MASSACHUSETTS	DATE: 01/20/2021	SHEET: 7 OF 24

**ISSUED FOR CONSTRUCTION**  
 01/20/2021



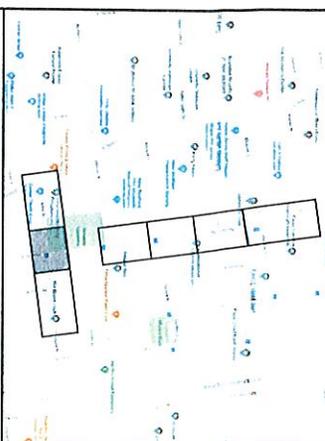
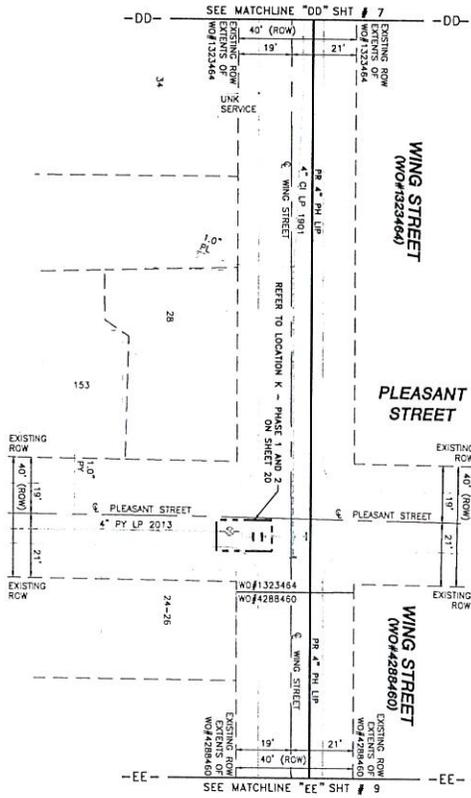
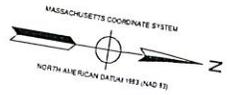
DATE: 01/20/2021  
 06/20/2022

**Engineering**  
 200 PLEASANT STREET  
 NEW BEDFORD, MA 01901  
 WWW.DORRINSOUND.COM

FIELD VERIFY DIMENSIONS  
 PRIOR TO PIPE FABRICATION

- NOTES**
- CONTRACTOR TO PROTECT EXISTING UTILITIES
  - AT CROSSING LOCATIONS PRIOR TO CONSTRUCTION
  - VERIFY ALL UTILITY LOCATIONS AND DEPT. RECORDS
  - VERIFY ALL UTILITY LOCATIONS AND DEPT. RECORDS
  - VERIFY ALL UTILITY LOCATIONS AND DEPT. RECORDS

LENGTH	SIZE	MATERIAL	DESCRIPTION
200'	4"	PH	INSTALL
40'	4"	GI	RETIRE
20'	4"	PH	RETIRE



**DRAWING LEGEND**

UTILITY POLE	EXISTING GAS MAIN
LIGHT POLE	RETIRED GAS MAIN
CATCH BASIN	PROPOSED GAS MAIN
FIRE HYDRANT	EXISTING SERVICE
UTILITY MANHOLE	RIGHT OF WAY
ELECTRIC MANHOLE	ELECTRIC
TELEPHONE MANHOLE	TELEPHONE
WATER MANHOLE	WATER
SANITARY MANHOLE	SANITARY SEWER
STORM MANHOLE	STORM SEWER
EXISTING REDUCER	PROPOSED REDUCER
EXISTING CAP	PROPOSED CAP
EXISTING VALVE	PROPOSED VALVE
EXISTING COUPLING	PROPOSED ANODE

NO.	DESCRIPTION	REVISION STATUS	DATE	DESIGNER
01	ISSUED FOR CONSTRUCTION		01/20/2021	WSP/GER

**EVERSOURCE ENERGY**

PLEASANT STREET AND WING STREET MAIN RELAY  
 NEW BEDFORD, MASSACHUSETTS  
 INSTALLATION PLAN

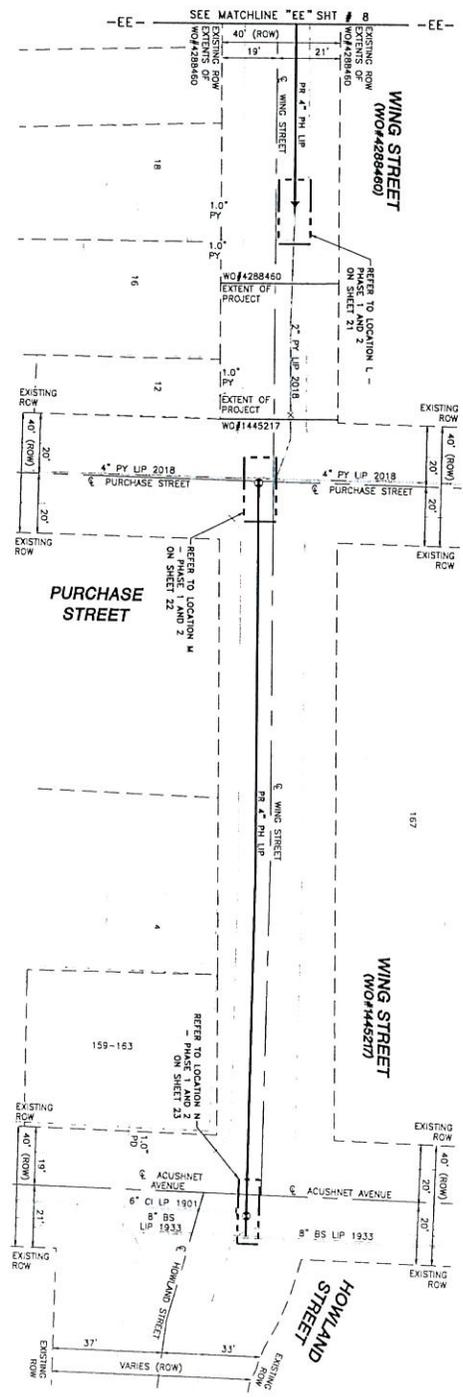
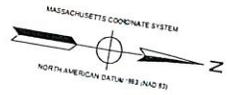
SCALE: 1"=20' (DO NOT SCALE FROM DRAWINGS)	SHEET NUMBER	02 OF 24
DATE: 01/20/2021	SHEET NUMBER	152 OF 152
MANAGER: PHD2980	MANAGER: PHD2980	0

ISSUED FOR CONSTRUCTION  
 01/20/2021



- NOTES
- CONTRACTOR TO PROTECT EXISTING UTILITIES
  - AT CROSSING LOCATIONS PRIOR TO CONSTRUCTION
  - HOPE SHALL BE ALLOWED TO BE VERTICAL AS REQUIRED TO ACHIEVE OFFSETS IN FIELD

LENGTH	SIZE	MATERIAL	DESCRIPTION
250'	4"	PH	INSTALL
180'	4"	CI	RETIRE
15'	4"	PV	RETIRE



- NOTES
- CONTRACTOR TO PROTECT EXISTING UTILITIES.
  - AT CROSSING LOCATIONS PRIOR TO CONSTRUCTION.
  - HOPE KNOX TO BELIEVE TO BE UNPAID, AS REQUIRED TO FACILITATE OFFERER'S FIELD.

LENGTH	SIZE	MATERIAL	DESCRIPTION
319	4"	PH	INSTALL
5	7"	PH	INSTALL
5	7"	PH	REMOVE

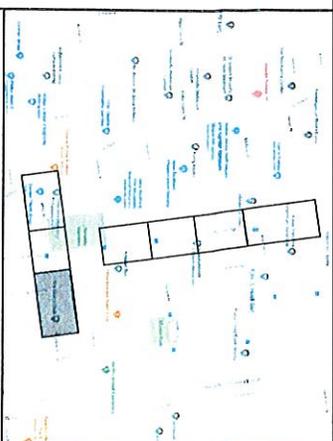
ISSUED FOR CONSTRUCTION  
01/20/2021



DATE: 01/20/2021  
DRAWN BY: 06/30/2022

**Eversource Energy**  
2000 WEST STREET  
MAINE STREET  
WWW.EVERSOURCEENERGY.COM

FIELD VERIFY DIMENSIONS PRIOR TO PIPE FABRICATION



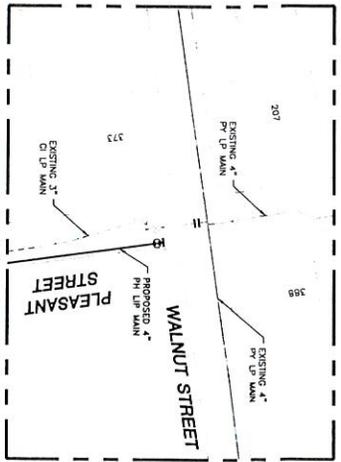
DRAWING LEGEND

UTILITY POLE	EXISTING GAS MAIN
LIGHT POLE	RETIRED GAS MAIN
CATCH BASIN	PROPOSED GAS MAIN
FIRE HYDRANT	EXISTING SERVICE
UTILITY MANHOLE	RIGHT OF WAY
ELECTRIC MANHOLE	ELECTRIC
TELEPHONE MANHOLE	TELEPHONE
WATER MANHOLE	WATER
SANITARY MANHOLE	SANITARY SEWER
STORM MANHOLE	STORM SEWER
EXISTING REDUCER	PROPOSED REDUCER
EXISTING CAP	PROPOSED CAP
EXISTING VALVE	PROPOSED VALVE
EXISTING COUPLING	PROPOSED ANODE

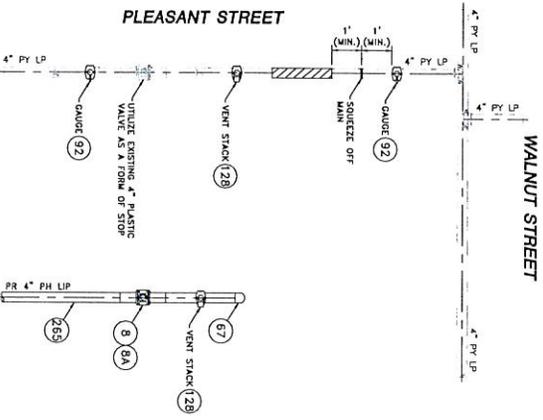
NO.	DESCRIPTION	REVISION STATUS	DATE	DRAWN BY
0	ISSUED FOR CONSTRUCTION		01/20/2021	WASABER

**EVERSOURCE ENERGY**

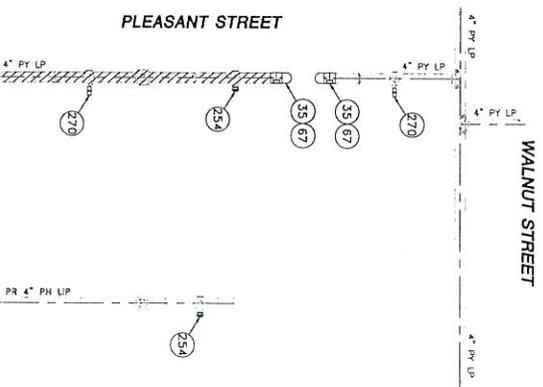
PLEASANT STREET AND WING STREET MAIN RELAY  
NEW BEDFORD, MASSACHUSETTS  
INSTALLATION PLAN  
SHEET 3 OF 24  
DATE: 01/20/2021  
DRAWN BY: 06/30/2022  
MANAGER: PH20280



LOCATION A - PLAN VIEW  
(SCALE 1:20)  
(REFER TO SHEET #3)  
(DO NOT SCALE FROM DRAWINGS)



LOCATION A - PHASE 1  
(SCALE 1:27)  
(REFER TO SHEET #3)  
(DO NOT SCALE FROM DRAWINGS)



LOCATION A - PHASE 2  
(SCALE 1:27)  
(REFER TO SHEET #3)  
(DO NOT SCALE FROM DRAWINGS)

PLEASANT STREET AND WALNUT STREET MAIN RELAY - LOCATION A - SCHEDULE OF MATERIALS					
ITEM	QTY	SIZE	MAXIMUM NO.	DESCRIPTION	MATERIAL
8	1	4"	501002	BALL VALVE, BUTT FUSION, IPS, HOPE 3408/4710, SDR 11, ASTM D2513, ASME B16.40, FULL PORT, 1/4 TURN, KEROTEST POLYBALL OR APPROVED EQUAL.	ASTM D2513
8A	1	4"		BOX VALVE, PLASTIC, SNAP-ON, ADJ. W/CI NON-LOCKING LUD COUPLINGS, ELECTROFUSION, IPS, HOPE 3408, ASTM F1955, COMPATIBLE FOR FUSION TO HDPE	PLASTIC
35	AS REQUIRED	4"	500855	CAP, BUTT FUSION, IPS, HOPE 4710, SDR 11, ASTM D2513, ASTM D3350, PERFORMANCE PIPE OR APPROVED EQUAL.	ASTM D3350
67	AS REQUIRED	4"	542538	CAP, BUTT FUSION, IPS, HOPE 4710, SDR 11, ASTM D2513, ASTM D3350, PERFORMANCE PIPE OR APPROVED EQUAL.	ASTM D2513
92	2	4" X 1/2"	500867	TAPPING STE. ELECTROFUSION, IPS X CIS, HOPE 3408/4710, SDR 11, ASTM D2513, ASTM D3350, ASTM D2861, ASTM D2513	ASTM D2513
128	2	4" X 2"	584304	HO/TAPPING TEE, ELECTROFUSION, IPS X IPS, HOPE 3408/4710, SDR 11, ASTM D2513, ASTM D3350, ASTM D2861, ASTM D2513	ASTM D2513
254	AS REQUIRED	2"	581633	ASTM F1955, CENTRAL PLASTICS OR APPROVED EQUAL.	ASTM D2513
265	10'	4"	554008	END CAP MECHANICAL COMPRESSION, SDR 11 IPS, DUPONT ZTEL, ST-801 NITCON BODY, 316SS COMPRESSION RING, INTERNAL STIFFENER, ASTM D2513, ASTM F1924, WETTEL OR APPROVED EQUAL.	ASTM D2513
270	AS REQUIRED	1/2"	544609	PIPE, IPS, HOPE 3408/4710 SDR 11, ASTM D2513, PERFORMANCE PIPE OR APPROVED EQUAL. END CAP MECHANICAL STAB, CIS, HOPE, PE 4710/3408, ASTM D2513, WITH SS GRIPPING SUPPORT RING, ACTUAL 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

ISSUED FOR CONSTRUCTION  
01/20/2021



ENGINEERING  
Eversource Energy  
100 State Street  
Boston, MA 02109  
www.eversource.com

FIELD VERIFICATION  
PHOTOS TO BE SUBMITTED

SCALE AS NOTED	DATE	SCALE AS NOTED	DATE
01/20/2021	01/20/2021	01/20/2021	01/20/2021

NO.	DESCRIPTION	DATE	BY
0	ISSUED FOR CONSTRUCTION	01/20/2021	WASABEK

REVISION STATUS	DATE	BY
0	01/20/2021	WASABEK

PROJECT NAME	LOCATION	SHEET NO.
PLEASANT STREET AND WALNUT STREET MAIN RELAY	NEWBURYFORD MASSACHUSETTS	10 OF 24

DATE	BY	DATE	BY
01/20/2021	WASABEK	01/20/2021	WASABEK

SCALE	DATE	SCALE	DATE
AS NOTED	01/20/2021	AS NOTED	01/20/2021

PROJECT NAME	LOCATION	SHEET NO.
PLEASANT STREET AND WALNUT STREET MAIN RELAY	NEWBURYFORD MASSACHUSETTS	10 OF 24

DATE	BY	DATE	BY
01/20/2021	WASABEK	01/20/2021	WASABEK

SCALE	DATE	SCALE	DATE
AS NOTED	01/20/2021	AS NOTED	01/20/2021

PROJECT NAME	LOCATION	SHEET NO.
PLEASANT STREET AND WALNUT STREET MAIN RELAY	NEWBURYFORD MASSACHUSETTS	10 OF 24

DATE	BY	DATE	BY
01/20/2021	WASABEK	01/20/2021	WASABEK

SCALE	DATE	SCALE	DATE
AS NOTED	01/20/2021	AS NOTED	01/20/2021

PROJECT NAME	LOCATION	SHEET NO.
PLEASANT STREET AND WALNUT STREET MAIN RELAY	NEWBURYFORD MASSACHUSETTS	10 OF 24

DATE	BY	DATE	BY
01/20/2021	WASABEK	01/20/2021	WASABEK

SCALE	DATE	SCALE	DATE
AS NOTED	01/20/2021	AS NOTED	01/20/2021

PROJECT NAME	LOCATION	SHEET NO.
PLEASANT STREET AND WALNUT STREET MAIN RELAY	NEWBURYFORD MASSACHUSETTS	10 OF 24

DATE	BY	DATE	BY
01/20/2021	WASABEK	01/20/2021	WASABEK

SCALE	DATE	SCALE	DATE
AS NOTED	01/20/2021	AS NOTED	01/20/2021

PROJECT NAME	LOCATION	SHEET NO.
PLEASANT STREET AND WALNUT STREET MAIN RELAY	NEWBURYFORD MASSACHUSETTS	10 OF 24

DATE	BY	DATE	BY
01/20/2021	WASABEK	01/20/2021	WASABEK

SCALE	DATE	SCALE	DATE
AS NOTED	01/20/2021	AS NOTED	01/20/2021

PROJECT NAME	LOCATION	SHEET NO.
PLEASANT STREET AND WALNUT STREET MAIN RELAY	NEWBURYFORD MASSACHUSETTS	10 OF 24

DATE	BY	DATE	BY
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SCALE	DATE	SCALE	DATE
AS NOTED	01/20/2021	AS NOTED	01/20/2021

PROJECT NAME	LOCATION	SHEET NO.
PLEASANT STREET AND WALNUT STREET MAIN RELAY	NEWBURYFORD MASSACHUSETTS	10 OF 24

DATE	BY	DATE	BY
01/20/2021	WASABEK	01/20/2021	WASABEK

SCALE	DATE	SCALE	DATE
AS NOTED	01/20/2021	AS NOTED	01/20/2021

PROJECT NAME	LOCATION	SHEET NO.
PLEASANT STREET AND WALNUT STREET MAIN RELAY	NEWBURYFORD MASSACHUSETTS	10 OF 24

DATE	BY	DATE	BY
01/20/2021	WASABEK	01/20/2021	WASABEK

SCALE	DATE	SCALE	DATE
AS NOTED	01/20/2021	AS NOTED	01/20/2021

PROJECT NAME	LOCATION	SHEET NO.
PLEASANT STREET AND WALNUT STREET MAIN RELAY	NEWBURYFORD MASSACHUSETTS	10 OF 24

DATE	BY	DATE	BY
01/20/2021	WASABEK	01/20/2021	WASABEK

SCALE	DATE	SCALE	DATE
AS NOTED	01/20/2021	AS NOTED	01/20/2021

PROJECT NAME	LOCATION	SHEET NO.
PLEASANT STREET AND WALNUT STREET MAIN RELAY	NEWBURYFORD MASSACHUSETTS	10 OF 24

DATE	BY	DATE	BY
01/20/2021	WASABEK	01/20/2021	WASABEK

SCALE	DATE	SCALE	DATE
AS NOTED	01/20/2021	AS NOTED	01/20/2021

PROJECT NAME	LOCATION	SHEET NO.
PLEASANT STREET AND WALNUT STREET MAIN RELAY	NEWBURYFORD MASSACHUSETTS	10 OF 24

DATE	BY	DATE	BY
01/20/2021	WASABEK	01/20/2021	WASABEK

SCALE	DATE	SCALE	DATE
AS NOTED	01/20/2021	AS NOTED	01/20/2021

PROJECT NAME	LOCATION	SHEET NO.
PLEASANT STREET AND WALNUT STREET MAIN RELAY	NEWBURYFORD MASSACHUSETTS	10 OF 24

DATE	BY	DATE	BY
01/20/2021	WASABEK	01/20/2021	WASABEK

SCALE	DATE	SCALE	DATE
AS NOTED	01/20/2021	AS NOTED	01/20/2021

PROJECT NAME	LOCATION	SHEET NO.
PLEASANT STREET AND WALNUT STREET MAIN RELAY	NEWBURYFORD MASSACHUSETTS	10 OF 24

DATE	BY	DATE	BY
01/20/2021	WASABEK	01/20/2021	WASABEK

SCALE	DATE	SCALE	DATE
AS NOTED	01/20/2021	AS NOTED	01/20/2021

PROJECT NAME	LOCATION	SHEET NO.
PLEASANT STREET AND WALNUT STREET MAIN RELAY	NEWBURYFORD MASSACHUSETTS	10 OF 24

DATE	BY	DATE	BY
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SCALE	DATE	SCALE	DATE
AS NOTED	01/20/2021	AS NOTED	01/20/2021

PROJECT NAME	LOCATION	SHEET NO.
PLEASANT STREET AND WALNUT STREET MAIN RELAY	NEWBURYFORD MASSACHUSETTS	10 OF 24

DATE	BY	DATE	BY
01/20/2021	WASABEK	01/20/2021	WASABEK

SCALE	DATE	SCALE	DATE
AS NOTED	01/20/2021	AS NOTED	01/20/2021

PROJECT NAME	LOCATION	SHEET NO.
PLEASANT STREET AND WALNUT STREET MAIN RELAY	NEWBURYFORD MASSACHUSETTS	10 OF 24

DATE	BY	DATE	BY
01/20/2021	WASABEK	01/20/2021	WASABEK

SCALE	DATE	SCALE	DATE
AS NOTED	01/20/2021	AS NOTED	01/20/2021

PROJECT NAME	LOCATION	SHEET NO.
PLEASANT STREET AND WALNUT STREET MAIN RELAY	NEWBURYFORD MASSACHUSETTS	10 OF 24

DATE	BY	DATE	BY
01/20/2021	WASABEK	01/20/2021	WASABEK

SCALE	DATE	SCALE	DATE
AS NOTED	01/20/2021	AS NOTED	01/20/2021

PROJECT NAME	LOCATION	SHEET NO.
PLEASANT STREET AND WALNUT STREET MAIN RELAY	NEWBURYFORD MASSACHUSETTS	10 OF 24

DATE	BY	DATE	BY
01/20/2021	WASABEK	01/20/2021	WASABEK

SCALE	DATE	SCALE	DATE
AS NOTED	01/20/2021	AS NOTED	01/20/2021

PROJECT NAME	LOCATION	SHEET NO.
PLEASANT STREET AND WALNUT STREET MAIN RELAY	NEWBURYFORD MASSACHUSETTS	10 OF 24

DATE	BY	DATE	BY
01/20/2021	WASABEK	01/20/2021	WASABEK

SCALE	DATE	SCALE	DATE
AS NOTED	01/20/2021	AS NOTED	01/20/2021

PROJECT NAME	LOCATION	SHEET NO.
PLEASANT STREET AND WALNUT STREET MAIN RELAY	NEWBURYFORD MASSACHUSETTS	10 OF 24

DATE	BY	DATE	BY
01/20/2021	WASABEK	01/20/2021	WASABEK

SCALE	DATE	SCALE	DATE
AS NOTED	01/20/2021	AS NOTED	01/20/2021

PROJECT NAME	LOCATION	SHEET NO.
PLEASANT STREET AND WALNUT STREET MAIN RELAY	NEWBURYFORD MASSACHUSETTS	10 OF 24

DATE	BY	DATE	BY
01/20/2021	WASABEK	01/20/2021	WASABEK

SCALE	DATE	SCALE	DATE
AS NOTED	01/20/2021	AS NOTED	01/20/2021

PROJECT NAME	LOCATION	SHEET NO.
PLEASANT STREET AND WALNUT STREET MAIN RELAY	NEWBURYFORD MASSACHUSETTS	10 OF 24

DATE	BY	DATE	BY
01/20/2021	WASABEK	01/20/2021	WASABEK

SCALE	DATE	SCALE	DATE
AS NOTED	01/20/2021	AS NOTED	01/20/2021

PROJECT NAME	LOCATION	SHEET NO.
PLEASANT STREET AND WALNUT STREET MAIN RELAY	NEWBURYFORD MASSACHUSETTS	10 OF 24

DATE	BY	DATE	BY
01/20/2021	WASABEK	01/20/2021	WASABEK

SCALE	DATE	SCALE	DATE
AS NOTED	01/20/2021	AS NOTED	01/20/2021

PROJECT NAME	LOCATION	SHEET NO.
PLEASANT STREET AND WALNUT STREET MAIN RELAY	NEWBURYFORD MASSACHUSETTS	10 OF 24

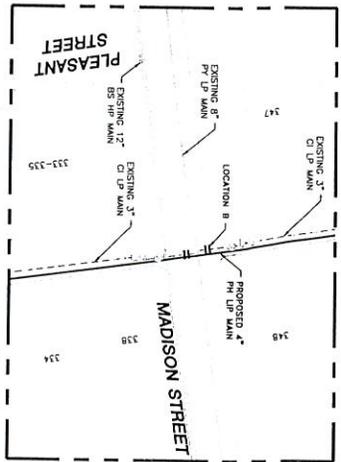
DATE	BY	DATE	BY
01/20/2021	WASABEK	01/20/2021	WASABEK

SCALE	DATE	SCALE	DATE
AS NOTED	01/20/2021	AS NOTED	01/20/2021

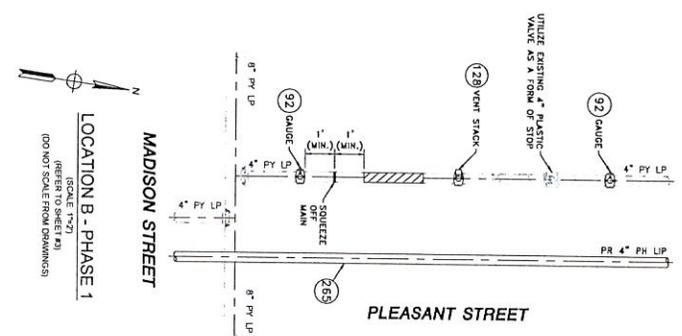
PROJECT NAME	LOCATION	SHEET NO.
PLEASANT STREET AND WALNUT STREET MAIN RELAY	NEWBURYFORD MASSACHUSETTS	10 OF 24

DATE	BY	DATE	BY
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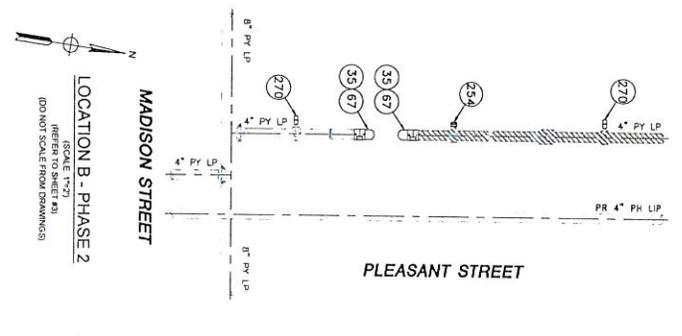
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LOCATION B - PLAN VIEW  
(SCALE 1"=20')  
(REFER TO SHEET #3)  
(DO NOT SCALE FROM DRAWINGS)



LOCATION B - PHASE 1  
(SCALE 1"=2')  
(REFER TO SHEET #3)  
(DO NOT SCALE FROM DRAWINGS)



LOCATION B - PHASE 2  
(SCALE 1"=2')  
(REFER TO SHEET #3)  
(DO NOT SCALE FROM DRAWINGS)

PLEASANT STREET AND WING STREET MAIN RELAY - LOCATION B - SCHEDULE OF MATERIALS				
ITEM	QTY	SIZE	MAXIMUM NO.	MATERIAL
35	AS REQUIRED	4"	500855	COUPLING, ELECTROFUSION, IPS, HDPE 3408, ASTM D3350, ASTM F5055, COMPATIBLE FOR FUSION TO HDPE
67	AS REQUIRED	4"	542338	CAP, BUTT FUSION, IPS, HDPE 4710, SDR 11, ASTM D2513, ASTM D3350, ASTM D3361, PERFORMANCE PIPE OR APPROVED EQUAL.
92	2	4" X 1/2"	500867	TAPPING THE ELECTROFUSION, IPS X, CTS, HDPE 3408/4710, SDR 11, ASTM D2513, ASTM D3350, ASTM D3361, ASTM F5055, CENTRAL PLASTICS OR APPROVED EQUAL.
128	1	4" X 2"	584304	HV TAPPING THE ELECTROFUSION, IPS X, IPS, HDPE 3408/4710, SDR 11, ASTM D2513, ASTM D3350, ASTM D3361, APPROVED EQUAL.
254	AS REQUIRED	2"	581633	END CAP MECHANICAL COMPRESSION, SDR 11 IPS, DUPONT ZITEL S1-801 NYLON BODY, 316SS COMPRESSION RING, ASTM F1955, CENTRAL PLASTICS OR APPROVED EQUAL.
255	20'	4"	554008	INTERNAL STIFFENER, ASTM D 2513, ASTM F1924, METTIT OR APPROVED EQUAL.
270	AS REQUIRED	1/2"	542609	PIPE, IPS, HDPE 3408/4710 SDR 11, ASTM D2513, ASTM D3350, PERFORMANCE PIPE OR APPROVED EQUAL.
				END CAP, MECHANICAL STAB, CTS, HDPE, PE 4710/3408, ASTM D2513, WITH SS GRIPPING SUPPORT RING, ACTAL COLLET AND SPACER REMAINDER RING, PE THRUST WASHER, BUANA-O-RING, ZINC-PLATED CS INSERT STIFFENER, PERFORMANCE WITH END CAP OR APPROVED EQUAL.

ISSUED FOR CONSTRUCTION  
01/20/2021



01/20/2021  
06/30/2022

**Engineering**  
www.eversource.com

FIELD VERIFY DIMENSIONS PRIOR TO PIPE FABRICATION

NO.	DESCRIPTION	DATE	BY
0	ISSUED FOR CONSTRUCTION	01/20/2021	WASABEK

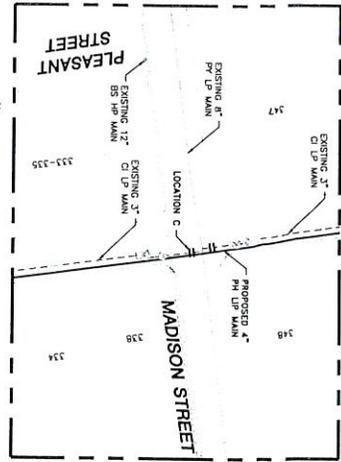
REVISION STATUS

**EVERSOURCE**  
ENERGY

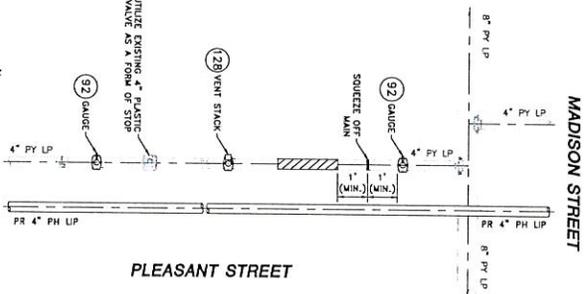
PLEASANT STREET AND WING STREET MAIN RELAY  
NEW BEDFORD, MASSACHUSETTS  
LOCATION B - PHASE 1, 2 AND SCHEDULE OF MATERIALS

SCALE AS NOTED  
DATE: 01/20/2021  
SHEET NUMBER: 11 OF 24  
PROJECT NUMBER: 06-256597/123E  
JOB NO: 06-07202021  
MANAGER: MANEBZ1P/02980  
DRAWN BY: MANEBZ1P/0298\_11

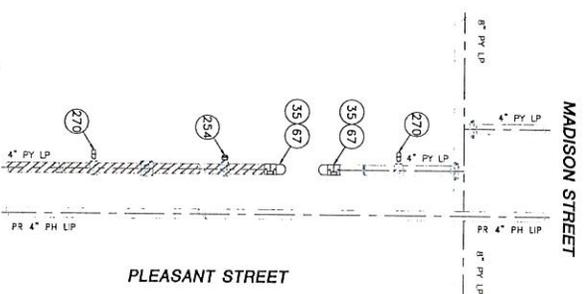
NOTE: REFER TO GENERAL NOTES ON SHEET #2



LOCATION C - PLAN VIEW  
(SCALE 1"=30')  
(REFER TO SHEET #3)  
(DO NOT SCALE FROM DRAWINGS)



LOCATION C - PHASE 1  
(SCALE 1"=7')  
(REFER TO SHEET #3)  
(DO NOT SCALE FROM DRAWINGS)



LOCATION C - PHASE 2  
(SCALE 1"=7')  
(REFER TO SHEET #3)  
(DO NOT SCALE FROM DRAWINGS)

PLEASANT STREET AND WING STREET MAIN RELAY - LOCATION C - SCHEDULE OF MATERIALS					
ITEM	QTY	SIZE	MAXIMO NO.	DESCRIPTION	MATERIAL
35	AS REQUIRED	4"	50855	COUPLING, ELECTRO-FUSION, 1/2", HDPE 3408, ASTM D3505, COMPATIBLE FOR FUSION TO HDPE	ASTM D3505
67	AS REQUIRED	4"	54238	CAP, BUTT FUSION, 1/2", HDPE 4710, SDR 11, ASTM D2513, ASTM D3505, ASTM D3501, PERFORMANCE PIPE OR APPROVED EQUAL	ASTM D2513
92	2	4" X 1/2"	50067	TAPPING TE, ELECTROFUSION, 1/2" X 1/2", HDPE 3408/4710, SDR 11, ASTM D2513, ASTM D3505, ASTM D3501, PERFORMANCE PIPE OR APPROVED EQUAL	ASTM D2513
118	1	4" X 2"	584304	1/2" TAPPING TE, ELECTROFUSION, 1/2" X 1/2", HDPE 3408/4710, SDR 11, ASTM D2513, ASTM D3505, ASTM D3501, PERFORMANCE PIPE OR APPROVED EQUAL	ASTM D2513
254	AS REQUIRED	2"	581633	END CAP, MECHANICAL COMPRESSION, SDR 11, 1/2", DUCTILE IRON, 316 SS COMPRESSION RING, INTERNAL STIFFENER, ASTM D2513, ASTM F302, METHT OR APPROVED EQUAL	ASTM D2513
265	25'	4"	554008	PIPE, 1/2", HDPE 3408/4710, SDR 11, ASTM D2513, ASTM D3505, PERFORMANCE PIPE OR APPROVED EQUAL	ASTM D2513
270	AS REQUIRED	1/2"	542609	END CAP, MECHANICAL STUB, CIS, HDPE, PE 4710/3408, ASTM D2513, WITH SS GRIPPING SUPPORT RING, ACTUAL COLLET AND SPACER RETAINER RING, PE THRUST WASHER, BUM-N-O-RING, ZINC-PLATED CS INSERT STIFFENER, PERFECTION WITH END CAP OR APPROVED EQUAL	ASTM D2513

ISSUED FOR CONSTRUCTION  
01/20/2021



SCALE: 01/20/2021  
DATE: 06/02/2022

**Eversource Energy**  
200 NORTH STREET  
MAINEZ1-1PH-025-12  
WWW.EVERSOURCE.COM

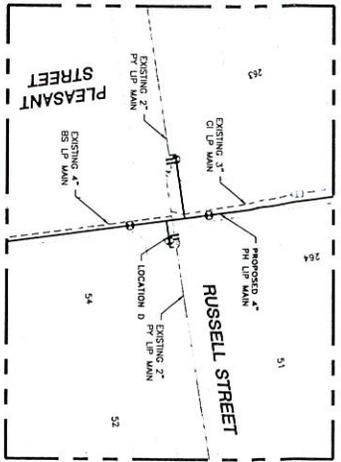
FIELD VERIFY DIMENSIONS PRIOR TO PIPE FABRICATION

REVISION STATUS	
0	ISSUED FOR CONSTRUCTION

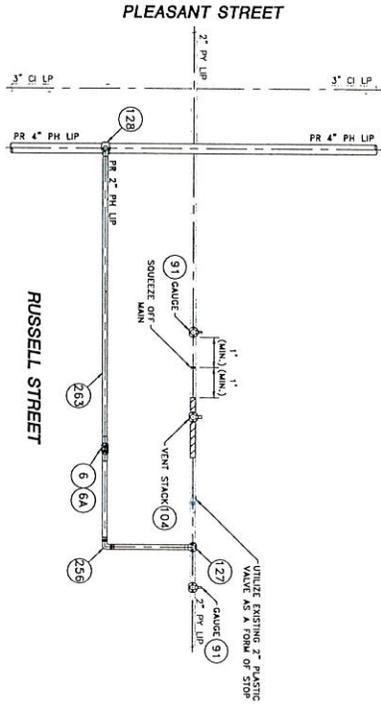
ENERGY EVERSOURCE	
PROJECT NUMBER	MAINEZ1-1PH-025-12
SHEET NUMBER	17 OF 24
DATE	01/20/2021
DESIGNED BY	MANEED1-1PH-025-12
CHECKED BY	
DATE	

PLEASANT STREET AND WING STREET MAIN RELAY  
NEW BEDFORD, MASSACHUSETTS  
LOCATION C - PHASE 1, 2 AND SCHEDULE OF MATERIALS

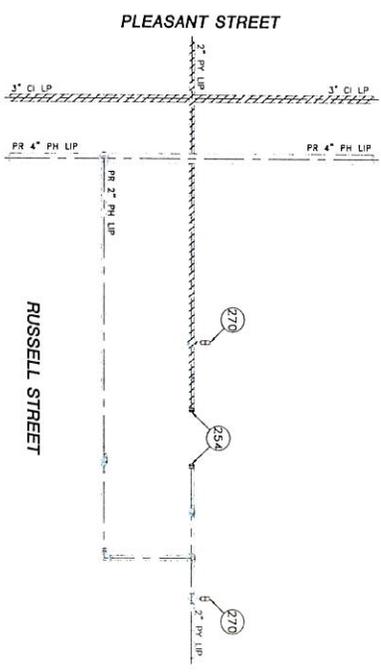
NOTE:  
1. REFER TO GENERAL NOTES ON SHEET #2



LOCATION D - PLAN VIEW  
 (SCALE 1"=50')  
 (REFER TO SHEET #2)  
 (DO NOT SCALE FROM DRAWINGS)



LOCATION D - PHASE 1  
 (SCALE 1"=2')  
 (REFER TO SHEET #0)  
 (DO NOT SCALE FROM DRAWINGS)



LOCATION D - PHASE 2  
 (SCALE 1"=2')  
 (REFER TO SHEET #0)  
 (DO NOT SCALE FROM DRAWINGS)

ITEM	QTY	SIZE	MAIMMO NO.	DESCRIPTION	MATERIAL
6	1	2"	56087	BALL VALVE, BUTT FUSION, IPS, HOPE 3408/4710, SDR 11, ASTM D2513, ASME B16.40, FULL PORT, 1/4 TURN, KEROSET FORMAL OR APPROVED EQUAL	ASTM D2513
6A	1	2"	500866	BOX VALVE, PLASTIC, SNAP ON, ADJ. W/CI NON-LOCKING LID	PLASTIC
91	2	2" X 1/2"	540779	TAPPING TEE, ELECTROFUSION, IPS X IPS, HOPE 3408/4710, SDR 11, ASTM D2513, ASTM D3350, ASTM D3261, ASTM D2513	ASTM D2513
104	1	2" X 1"	540779	TAPPING TEE, ELECTROFUSION, IPS X IPS, HOPE 3408/4710, SDR 11, ASTM D2513, ASTM D3350, ASTM D3261, ASTM D2513	ASTM D2513
127	1	2" X 2"	540779	HV TAPPING TEE, ELECTROFUSION, IPS X IPS, HOPE 3408/4710, SDR 11, ASTM D2513, ASTM D3350, ASTM D3261, ASTM D2513	ASTM D2513
128	1	4" X 2"	540779	HV TAPPING TEE, ELECTROFUSION, IPS X IPS, HOPE 3408/4710, SDR 11, ASTM D2513, ASTM D3350, ASTM D3261, ASTM D2513	ASTM D2513
254	AS REQUIRED	2"	540779	INTERNAL STEFFENER, ASTM D-2513, ASTM F1924, METFIT OR APPROVED EQUAL	ASTM D2513
256	AS REQUIRED	2"	540779	END CAP MECHANICAL COMPRESSION, SDR 11 IPS, DUPONT ZYTEL ST-801 NYLON BODY, 316 SS COMPRESSION RING, INTERNAL STEFFENER, ASTM D-2513, ASTM F1924, METFIT OR APPROVED EQUAL	ASTM D2513
263	20	2"	540779	PIPE, IPS, HOPE 3408/4710 SDR 11, ASTM D2513, ASTM D3350, PERFORMANCE PIPE OR APPROVED EQUAL	ASTM D2513
265	15	4"	540779	PIPE, IPS, HOPE 3408/4710 SDR 11, ASTM D2513, ASTM D3350, PERFORMANCE PIPE OR APPROVED EQUAL	ASTM D2513
270	AS REQUIRED	1/2"	540779	END CAP, MECHANICAL STRB, CIS, HOPE, PE 4710/3408, ASTM D2513, WITH SS GRIPPING SUPPORT RING, AGENT COLLET AND SPACER RETAINER RING, PE THRUST WASHER, BUNA-N O-RING, ZINC-PLATED CS INSERT STEFFENER, PERFECTION WITH END-CAP OR APPROVED EQUAL	ASTM D2513

ISSUED FOR CONSTRUCTION  
 01/20/2021



ISSUED ON: 01/20/2021  
 EXPIRES ON: 06/28/2022

**Engineering**  
 140 STATE STREET, SUITE 200  
 NEW BEDFORD, MASSACHUSETTS 01909  
 WWW.ENGINEERINGMASS.COM

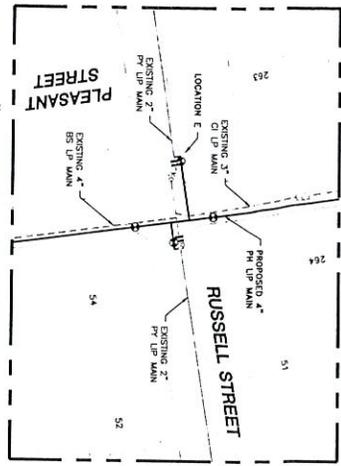
FIELD VERIFY DIMENSIONS PRIOR TO PIPE FABRICATION

NO.	DESCRIPTION	DATE	DESIGNER
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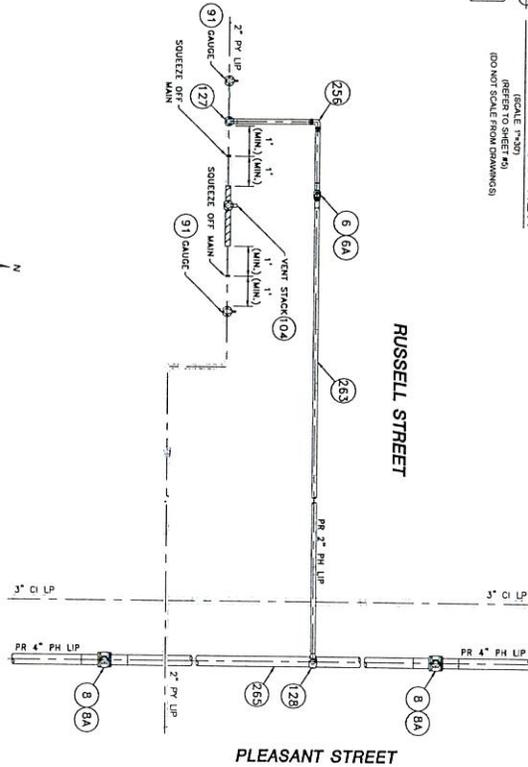
REVISION STATUS	
NO.	DESCRIPTION
0	ISSUED FOR CONSTRUCTION

**EVERSOURCE**  
 ENERGY  
 PLEASANT STREET AND WING STREET MAIN RELAY  
 NEW BEDFORD, MASSACHUSETTS  
 LOCATION D - PHASE 1, 2 AND SCHEDULE OF MATERIALS  
 SCALE: AS NOTED  
 SHEET 13 OF 24  
 SHEET NUMBER: MA-NED-21-PR-028-13  
 REV. NO.: 0

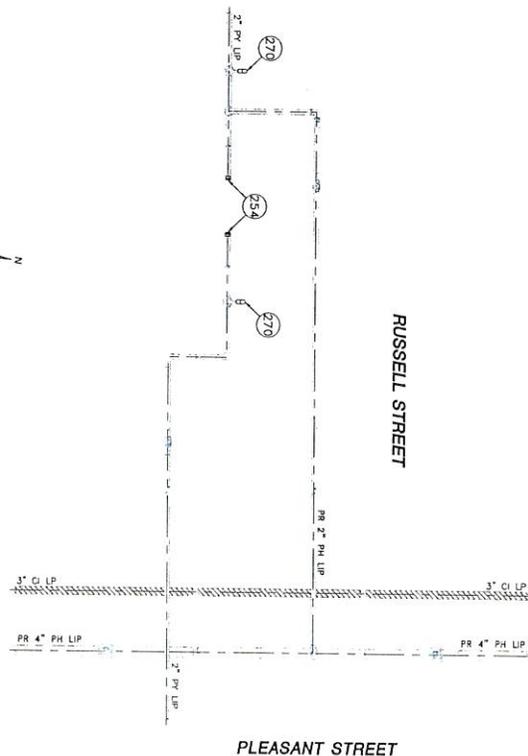
NOTE:  
 1. REFER TO GENERAL NOTES ON SHEET #2



LOCATION E - PLAN VIEW  
 (SCALE 1"=20')  
 (REFER TO SHEET #3)  
 (DO NOT SCALE FROM DRAWINGS)



LOCATION E - PHASE 1  
 (SCALE 1"=2')  
 (REFER TO SHEET #3)  
 (DO NOT SCALE FROM DRAWINGS)



LOCATION E - PHASE 2  
 (SCALE 1"=2')  
 (REFER TO SHEET #3)  
 (DO NOT SCALE FROM DRAWINGS)

ITEM	QTY	SIZE	MANUFACTURER	DESCRIPTION	MATERIAL
6	1	2"	562687	BALL VALVE, BUTT FUSION, IPS, HOPE 3406/4720, 50R 11, ASTM D2513, ASME B16.46, FULL PORT, 1/4 TURN, KEROTEST POLYBALL OR APPROVED EQUAL	ASTM D2513
6A	1	2"	501002	BOX VALVE, PLASTIC SNAP-ON, ADI, W/CI NON-LOCKING LID	PLASTIC
8	2	4"	501002	BALL VALVE, BUTT FUSION, IPS, HOPE 3406/4720, 50R 11, ASTM D2513, ASME B16.46, FULL PORT, 1/4 TURN, KEROTEST POLYBALL OR APPROVED EQUAL	ASTM D2513
8A	2	4"	500866	BOX VALVE, PLASTIC SNAP-ON, ADI, W/CI NON-LOCKING LID	PLASTIC
91	2	2" X 1/2"	560779	TAPPING TEEL, ELECTROFUSION, IPS X IPS, HOPE 3406/4720, 50R 11, ASTM D2513, ASTM D3350, ASTM D3261, ASTM D2513	ASTM D2513
104	1	2" X 1"	560779	TAPPING TEEL, ELECTROFUSION, IPS X IPS, HOPE 3406/4720, 50R 11, ASTM D2513, ASTM D3350, ASTM D3261, ASTM D2513	ASTM D2513
127	1	2" X 2"	560803	HV TAPPING TEEL, ELECTROFUSION, IPS X IPS, HOPE 3406/4720, 50R 11, ASTM D2513, ASTM D3350, ASTM D3261, ASTM D2513	ASTM D2513
128	1	4" X 2"	560804	HV TAPPING TEEL, ELECTROFUSION, IPS X IPS, HOPE 3406/4720, 50R 11, ASTM D2513, ASTM D3350, ASTM D3261, ASTM D2513	ASTM D2513
254	AS REQUIRED	2"	562633	INTERNAL STIFFENER, ASTM D-2513, ASTM F1594, METTIT OR APPROVED EQUAL	ASTM D2513
256	1	2"	562633	ELBOW, 90 DEG, MECHANICAL COMPRESSION, 50R 11 IPS, DUPONT ZTTEL ST-801 NYLON BODY, 316 SS COMPRESSION RING, INTERNAL STIFFENER, ASTM D-2513, ASTM F1594, METTIT OR APPROVED EQUAL	ASTM D2513
263	35"	2"	554025	PIPE, IPS, HOPE 3406/4720 50R 11, ASTM D2513, ASTM D3350, PERFORMANCE PIPE OR APPROVED EQUAL	ASTM D2513
265	45"	4"	554028	PIPE, IPS, HOPE 3406/4720 50R 11, ASTM D2513, ASTM D3350, PERFORMANCE PIPE OR APPROVED EQUAL	ASTM D2513
270	AS REQUIRED	1/2"	542609	PERFECTION WITH END CAP OR APPROVED EQUAL	ASTM D2513

ISSUED FOR CONSTRUCTION  
 01/20/2021



SCALE: 1"=20'  
 01/20/2021  
 06/30/2022

DESIGNED BY: EVERSOURCE ENERGY  
 ENGINEERING  
 100 STATE STREET, SUITE 200  
 NEW BEDFORD, MASSACHUSETTS 01903  
 WWW.EVERSOURCE.COM

FIELD VERIFY DIMENSIONS PRIOR TO PIPE FABRICATION

NO.	DESCRIPTION	DATE	BY/CHK/APP
0	ISSUED FOR CONSTRUCTION	01/20/2021	WGS/ARX

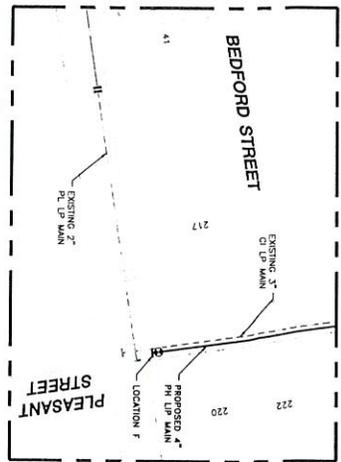
  

REVISION STATUS	DATE	BY/CHK/APP
ISSUED FOR CONSTRUCTION	01/20/2021	WGS/ARX

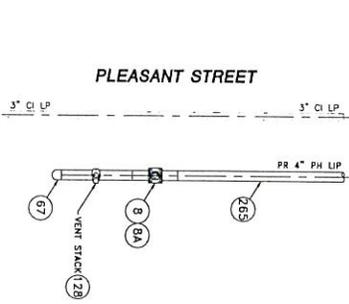
  

NO.	DESCRIPTION	DATE	BY/CHK/APP
0	ISSUED FOR CONSTRUCTION	01/20/2021	WGS/ARX

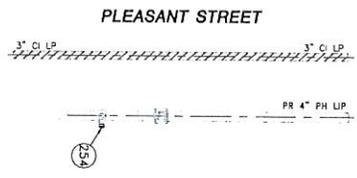
NOTE: REFER TO GENERAL NOTES ON SHEET #2



LOCATION F - PLAN VIEW  
 (REFER TO SHEET #1)  
 (DO NOT SCALE FROM DRAWINGS)



LOCATION F - PHASE 1  
 (SCALE 1"=2')  
 (REFER TO SHEET #1)  
 (DO NOT SCALE FROM DRAWINGS)



LOCATION F - PHASE 2  
 (SCALE 1"=2')  
 (REFER TO SHEET #1)  
 (DO NOT SCALE FROM DRAWINGS)

ITEM	QTY	SIZE	MANUFACTURER NO.	DESCRIPTION	MATERIAL
8	1	4"	501002	BALL VALVE, BUTT FUSION, IPS, HDPE 3408/4710, SDR 11, ASTM D2513, ASME B36.40, FULL PORT, 1/4 TURN, KEROTECT POLYBALL OR APPROVED EQUAL	ASTM D2513
8A	1	4"	542338	BOX VALVE, PLASTIC, SNAP-ON, ADJ. W/CI NON-LOCKING LID	PLASTIC
67	AS REQUIRED	4"	542338	CAP, BUTT FUSION, IPS, HDPE 4710, SDR 11, ASTM D2513, ASTM D3350, ASTM D2481, PERFORMANCE PIPE OR APPROVED EQUAL	ASTM D2513
128	1	4" X 2"	564304	HV TAPPING TEE, ELECTROFUSION, IPS X IPS, HDPE 3408/4710, SDR 11, ASTM D2513, ASTM D3350, ASTM D3361, ASTM F1055, CENTRAL PLASTICS OR APPROVED EQUAL	ASTM D2513
254	AS REQUIRED	2"	581633	END CAP MECHANICAL COMPRESSION, SDR 11 IPS, DUPONT ZYTEL ST-801 NYLON BODY, 316 SS COMPRESSION RING, INTERNAL STIFFENER, ASTM D-2513, ASTM F1924, METTIT OR APPROVED EQUAL	ASTM D2513
265	10	4"	554008	PIPE, IPS, HDPE 3408/4710 SDR 11, ASTM D2513, ASTM D3350, PERFORMANCE PIPE OR APPROVED EQUAL	ASTM D2513

ISSUED FOR CONSTRUCTION  
 01/20/2021



DATE: 01/20/2021  
 DRAWING NO: 062902022  
**Engineering**  
 45 STATE ST., SUITE 200, BOSTON, MA 02109  
 617-267-1111  
 WWW.ENGINEERING.COM

FIELD VERIFY DIMENSIONS PRIOR TO PIPE FABRICATION

NO.	DESCRIPTION	DATE	BY
0	ISSUED FOR CONSTRUCTION	01/20/2021	WS/ABEK

REVISION STATUS

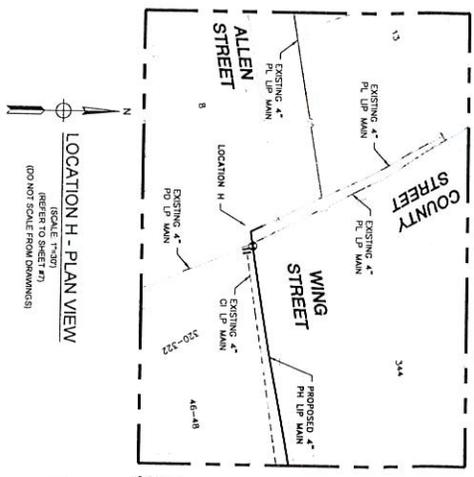
EVERSOURCE ENERGY  
 PLEASANT STREET AND WING STREET MAIN RELAY  
 NEW BEDFORD, MASSACHUSETTS

SCALE: AS NOTED

DATE: 01/20/2021  
 DRAWING NO: 062902022  
 SHEET NO: 15 OF 24  
 SHEET NUMBER: MANEB-21-PP-028-15  
 REV: 0

SCALE: 1"=2'  
 REFERS TO GENERAL NOTES ON SHEET #2





COUNTY STREET

WING STREET

COUNTY STREET

WING STREET

NOTE:  
1. REFER TO GENERAL NOTES ON SHEET #2  
(DO NOT SCALE FROM DRAWINGS)

LOCATION H - PHASE 1  
(SCALE 1"=2')  
(REFER TO SHEET #1)  
(DO NOT SCALE FROM DRAWINGS)

LOCATION H - PHASE 2  
(SCALE 1"=2')  
(REFER TO SHEET #1)  
(DO NOT SCALE FROM DRAWINGS)

ITEM	QTY	SIZE	DESCRIPTION	MATERIAL
8	1	4"	BLK VALVE BUTT FUSION, 1/2" HIGH 3000/4710, 50# 11, ASTM D2513, ASME B16.40 T&L, 1/4" TURN, 150# VALVE PLASTIC, 50#	ASTM D2513
8A	1	4"	BLK VALVE PLASTIC, 50#	ASTM D2513
35	AS REQUIRED	4"	EQUIPPING, ELECTRIC, 50#	ASTM D2513
44	AS REQUIRED	4"	BLK VALVE BUTT FUSION, 1/2" HIGH 3000/4710, 50# 11, ASTM D2513, ASME B16.40 T&L, 1/4" TURN, 150# VALVE PLASTIC, 50#	ASTM D2513
67	AS REQUIRED	4"	PIPE BUTT FUSION, 1/2" HIGH 3000/4710, 50# 11, ASTM D2513, ASME B16.40 T&L, 1/4" TURN, 150# VALVE PLASTIC, 50#	ASTM D2513
92	3	4" x 1/2"	PIPE BUTT FUSION, 1/2" HIGH 3000/4710, 50# 11, ASTM D2513, ASME B16.40 T&L, 1/4" TURN, 150# VALVE PLASTIC, 50#	ASTM D2513
128	2	4" x 2"	PIPE BUTT FUSION, 1/2" HIGH 3000/4710, 50# 11, ASTM D2513, ASME B16.40 T&L, 1/4" TURN, 150# VALVE PLASTIC, 50#	ASTM D2513
152	2	4"	PIPE BUTT FUSION, 1/2" HIGH 3000/4710, 50# 11, ASTM D2513, ASME B16.40 T&L, 1/4" TURN, 150# VALVE PLASTIC, 50#	ASTM D2513
170	8	4" x 2"	PIPE BUTT FUSION, 1/2" HIGH 3000/4710, 50# 11, ASTM D2513, ASME B16.40 T&L, 1/4" TURN, 150# VALVE PLASTIC, 50#	ASTM D2513
202	20	4"	PIPE BUTT FUSION, 1/2" HIGH 3000/4710, 50# 11, ASTM D2513, ASME B16.40 T&L, 1/4" TURN, 150# VALVE PLASTIC, 50#	ASTM D2513
270	AS REQUIRED	1/2"	PIPE BUTT FUSION, 1/2" HIGH 3000/4710, 50# 11, ASTM D2513, ASME B16.40 T&L, 1/4" TURN, 150# VALVE PLASTIC, 50#	ASTM D2513

ISSUED FOR CONSTRUCTION  
01/20/2021



DATE: 01/20/2021  
SCALE: 1"=2'

**Eversource**  
Engineering

FIELD VERIFY DIMENSIONS PRIOR TO PIPE FABRICATION

NO.	DESCRIPTION	DATE	BY
0	ISSUED FOR CONSTRUCTION	01/20/2021	WJSAUER

REVISION STATUS

**EVERSOURCE**  
ENERGY

PLEASANT STREET AND WING STREET MAIN RELAY  
NEW BEDFORD, MASSACHUSETTS

LOCATION H - PHASE 1, 2 AND SCHEDULE OF MATERIALS

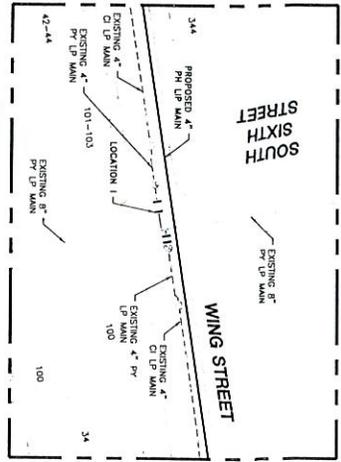
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DATE: 01/20/2021

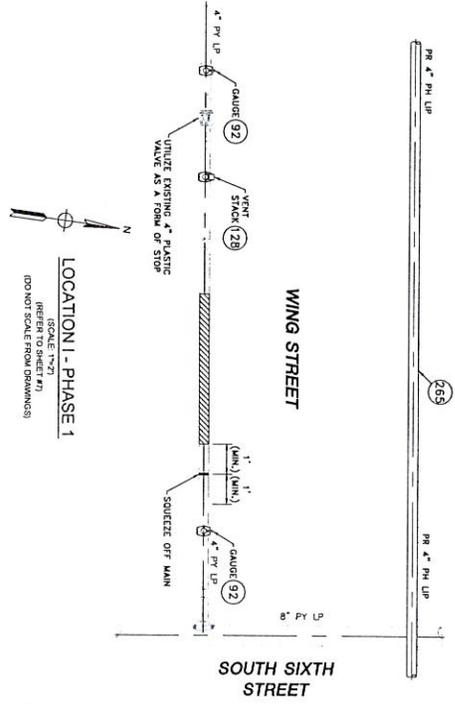
PROJECT NUMBER: MA-NE-24-19-P-029-17

SHEET NUMBER: SHEET 17 OF 24

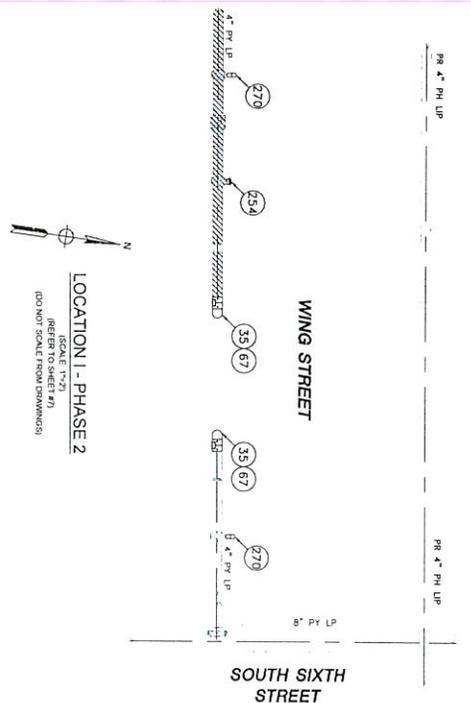
REV: 0



LOCATION 1 - PLAN VIEW  
 (SCALE: 1/2"=1'-0")  
 (REFER TO SHEET #1)  
 (DO NOT SCALE FROM DRAWINGS)



LOCATION 1 - PHASE 1  
 (SCALE: 1/2"=1'-0")  
 (REFER TO SHEET #1)  
 (DO NOT SCALE FROM DRAWINGS)



LOCATION 1 - PHASE 2  
 (SCALE: 1/2"=1'-0")  
 (REFER TO SHEET #1)  
 (DO NOT SCALE FROM DRAWINGS)

PLEASANT STREET AND WING STREET MAIN RELAY - LOCATION 1 - SCHEDULE OF MATERIALS					
ITEM	QTY	SIZE	MARKING NO.	DESCRIPTION	MATERIAL
35	AS REQUIRED	4"	500855	COUPLING, ELECTROFUSION, 1/2", HDPE 3408, ASTM D3350, ASTM F1924, COMPATIBLE FOR FUSION TO HDPE CAP, BUTT FUSION, GFCP OR APPROVED EQUAL	ASTM D3350
67	AS REQUIRED	4"	54538	CAP, BUTT FUSION, 1/2", HDPE 3408, ASTM D3350, ASTM F1924, PERFORMANCE PIPE OR APPROVED EQUAL	ASTM D3350
92	2	4" X 1/2"	500867	TAPPING TE, ELECTROFUSION, 1/2" X 1/2", HDPE 3408/4710, SDR 11, ASTM D2513, ASTM D3350, ASTM D2421, ASTM D2513	ASTM D2513
128	1	4" X 2"	586394	HV TAPPING TE, ELECTROFUSION, 1/2" X 1/2", HDPE 3408/4710, SDR 11, ASTM D2513, ASTM D3350, ASTM D2421, ASTM D2513	ASTM D2513
254	AS REQUIRED	2"	581633	END CAP MECHANICAL COMPRESSION, SDR 11 1/2", DUPONT ZYTEL ST-801 NUTON BODY, 316 SS COMPRESSION RING, INTERNAL STIFFENER, ASTM D-2513, ASTM F1924, METTIF OR APPROVED EQUAL	ASTM D2513
265	20	4"	552088	PIPE 1/2", HDPE 3408/4710 SDR 11, ASTM D2513, ASTM D3350, PERFORMANCE PIPE OR APPROVED EQUAL	ASTM D2513
270	AS REQUIRED	1/2"	545699	COLLET AND SPACER RETAINER RING, PET THRUST WASHER, BUVA-N O-RING, ZINC-PLATED CS INSERT STIFFENER, PREPERCTION WITH END CAP OR APPROVED EQUAL	ASTM D2513

ISSUED FOR CONSTRUCTION  
 01/20/2021



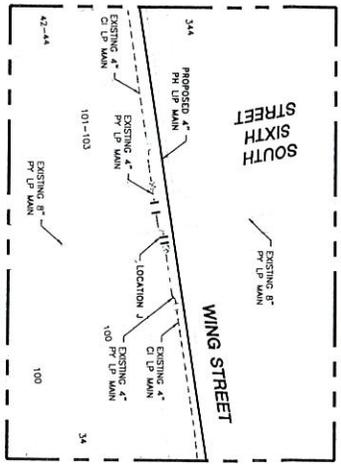
ENGINEERING  
 280 WASHINGTON STREET  
 SUITE 200  
 BOSTON, MA 02108  
 WWW.BJGAGNIER.COM

FIELD VERIFY DIMENSIONS  
 PRIOR TO PIPE FABRICATION

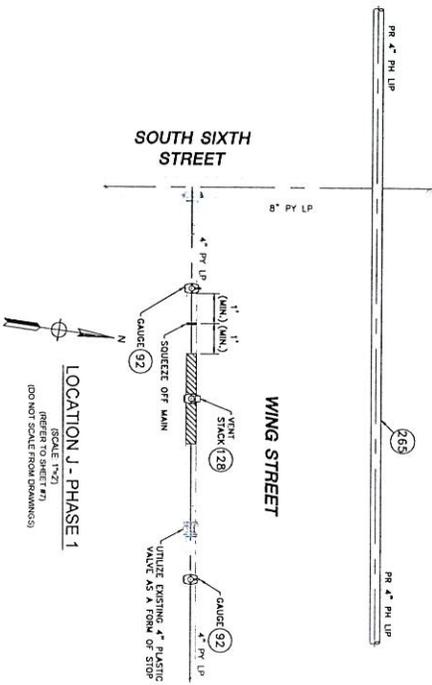
NO.	DESCRIPTION	REVISION STATUS	DATE	DRAWN BY
0	ISSUED FOR CONSTRUCTION		01/20/2021	WS/AGK

EVERSOURCE ENERGY  
 PLEASANT STREET AND WING STREET MAIN RELAY  
 NEW BEDFORD, MASSACHUSETTS  
 LOCATION 1 - PHASE 1, 2 AND SCHEDULE OF MATERIALS  
 SCALE: AS NOTED  
 SHEET NUMBER: SHEET 1B OF 24  
 PROJECT NUMBER: 21PH-025-18  
 MANAGER: PHOENIX

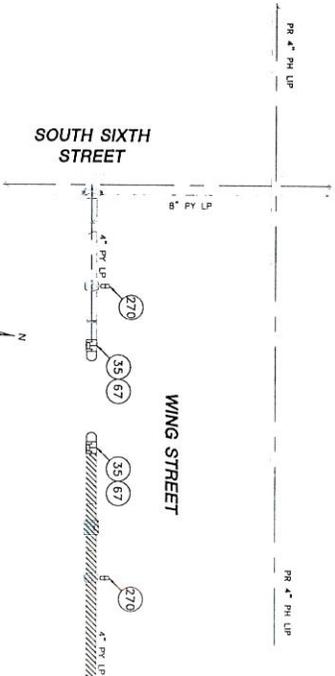
NOTE:  
 REFERS TO GENERAL NOTES ON SHEET #2



LOCATION J - PLAN VIEW  
 (SCALE 1"=20')  
 (REFER TO SHEET #1)  
 (DO NOT SCALE FROM DRAWINGS)



LOCATION J - PHASE 1  
 (SCALE 1"=2')  
 (REFER TO SHEET #1)  
 (DO NOT SCALE FROM DRAWINGS)



LOCATION J - PHASE 2  
 (SCALE 1"=2')  
 (REFER TO SHEET #1)  
 (DO NOT SCALE FROM DRAWINGS)

PLEASANT STREET AND WING STREET MAIN RELAY - LOCATION J - SCHEDULE OF MATERIALS						
ITEM	QTY	SIZE	MAXIMUM NO.	DESCRIPTION	MATERIAL	
35	2	4"	500855	COPULING, ELECTROFUSION, IPS, HOPE 3408, ASTM D3350, COMPATIBLE FOR FUSION TO HOPE 3408/4710 PIPE, GFCO OR APPROVED EQUAL.	ASTM D3350	
67	2	4"	542538	CAP, BUTT FUSION, IPS, HOPE 4710, SDR 11, ASTM D2513, ASTM D3350, PERFORMANCE PIPE OR APPROVED EQUAL.	ASTM D2513	
92	2	4" X 1/2"	500867	TAPPING THE ELECTROFUSION, IPS X CTS, HOPE 3408/4710, SDR 11, ASTM D2513, ASTM D3350, ASTM D3351, ASTM D3352, PERFORMANCE PIPE OR APPROVED EQUAL.	ASTM D2513	
128	1	4" X 2"	5089304	HY TAPPING TEE, ELECTROFUSION, IPS X IPS, HOPE 3408/4710, SDR 11, ASTM D2513, ASTM D3350, ASTM D3351, ASTM D3352, PERFORMANCE PIPE OR APPROVED EQUAL.	ASTM D2513	
265	20	4"	554008	PIPE, IPS, HOPE 3408/4710, SDR 11, ASTM D2513, ASTM D3350, PERFORMANCE PIPE OR APPROVED EQUAL.	ASTM D2513	
270	AS REQUIRED	1/2"	542699	END CAP, MECHANICAL SEAL, CTS, HOPE PE 4710/2408, ASTM D2513, WITH SS SPRING SUPPORT RING, ACETAL COLLET AND SPACER, RETAIN RING, PE TRUST WASHER, BULK-HN O-RING, ZINC-PLATED CO INSERT STIFFENER, PERFECTION WITH END CAP OR APPROVED EQUAL.	ASTM D2513	

NOTE  
 REFER TO GENERAL NOTES ON SHEET #1

ISSUED FOR  
 CONSTRUCTION  
 01/20/2021



DATE: 01/20/2021  
 PROJECT: PLEASANT STREET AND WING STREET MAIN RELAY

**Benjamin J. Smith**  
 ENGINEERING  
 100 WASHINGTON STREET, SUITE 200  
 NEW BEDFORD, MASSACHUSETTS 01909  
 WWW.BENJAMINSMITH.COM

FIELD VERIFY DIMENSIONS  
 PRIOR TO PIPE FABRICATION

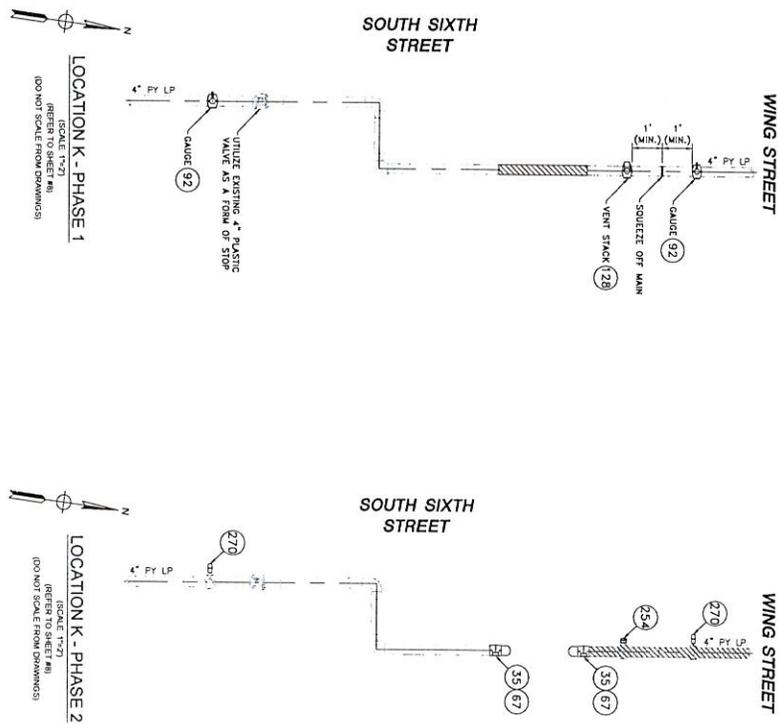
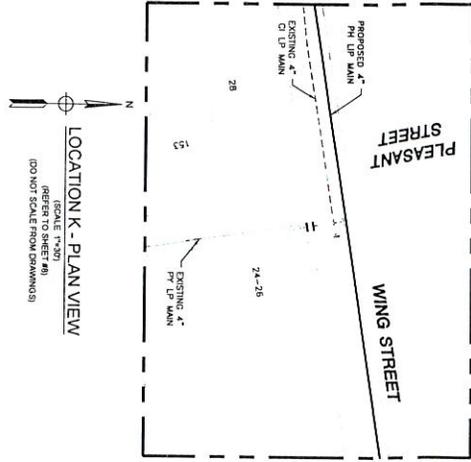
REVISION STATUS			
NO.	DESCRIPTION	DATE	DRAWN BY
0	ISSUED FOR CONSTRUCTION	01/20/2021	WSD/ABEK

**EVERSOURCE**  
 ENERGY

PLEASANT STREET AND WING STREET MAIN RELAY  
 NEW BEDFORD, MASSACHUSETTS

SCALE AS NOTED  
 LOCATION: PHASE 1, 2 AND SCHEDULE OF MATERIALS  
 SHEET NUMBER: 19 OF 24  
 DATE: 01/20/2021  
 PROJECT: PLEASANT STREET AND WING STREET MAIN RELAY  
 MANAGER: PHD/20210

PLEASANT STREET AND WING STREET MAIN RELAY - LOCATION K - SCHEDULE OF MATERIALS					
ITEM	QTY	SIZE	MANUFACT	DESCRIPTION	MATERIAL
55	AS REQUIRED	4"	500655	COPOLYMER, ELECTROFUSION, IPS, HDPE 3408, ASTM D3350, ASTM F1005, COMPATIBLE FOR FUSION TO HDPE 3408/4710 PIPE. GFCP OR APPROVED EQUAL.	ASTM D3350
67	AS REQUIRED	4"	542538	CAP, BUTT FUSION, IPS, HDPE 4710, SDR 11, ASTM D2513, ASTM D3350, ASTM D2561, PERFORMANCE PIPE OR APPROVED EQUAL.	ASTM D2513
92	2	4" X 1/2"	500867	TAPPING TE, ELECTROFUSION, IPS X CTS, HDPE 3408/4710, SDR 11, ASTM D2513, ASTM D3350, ASTM D3361, ASTM D2513	ASTM D2513
128	1	4" X 2"	594304	HIV TAPPING TE, ELECTROFUSION, IPS X IPS, HDPE 3408/4710, SDR 11, ASTM D2513, ASTM D3350, ASTM D3361, ASTM F1005, CENTRAL PLASTICS OR APPROVED EQUAL.	ASTM D2513
270	AS REQUIRED	1/2"	542699	END CAP, MECHANICAL STRAP, CTS, HDPE, PE 4710/3408, ASTM D2513, WITH SS GRIPPING SUPPORT RING, ACETAL COLLET AND SPACER RETAINER RING, PE THROUST WASHEN, BULK-N-O-RING, ZINC-PLATED CG INSERT STIFFENER, PERFECTION WITH END CAP OR APPROVED EQUAL.	ASTM D2513



NOTE  
1- REFER TO GENERAL NOTES ON SHEET #2

ISSUED FOR CONSTRUCTION  
01/20/2021



01/20/2021  
09/20/2022

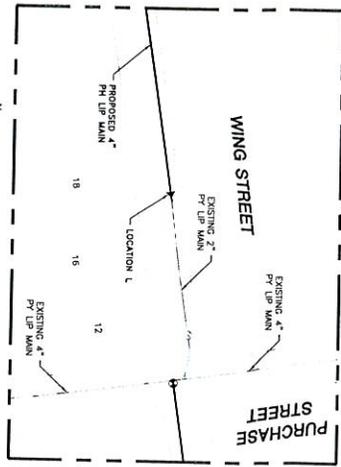
**EngInneering**  
MAINEB21PH023RO

FIELD VERIFY DIMENSIONS  
PRIOR TO PIPE FABRICATION

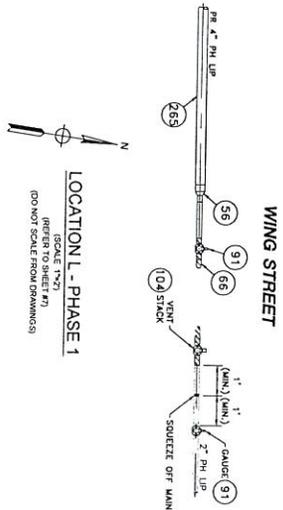
REVISION STATUS	
0	ISSUED FOR CONSTRUCTION

NO	DESCRIPTION	DATE	DRAWN BY
0	ISSUED FOR CONSTRUCTION	01/20/2021	WES/BERG

PROJECT INFORMATION	
PROJECT NAME	PLEASANT STREET AND WING STREET MAIN RELAY
PROJECT ADDRESS	NEW BEDFORD, MASSACHUSETTS
SHEET NO.	SHEET 20 OF 24
DATE	01/20/2021
SCALE	AS NOTED
DESIGNED BY	WES/BERG
CHECKED BY	WES/BERG
DATE	01/20/2021
PROJECT NO.	MAINEB21PH023RO
SCALE	AS NOTED
DATE	01/20/2021
PROJECT NO.	MAINEB21PH023RO

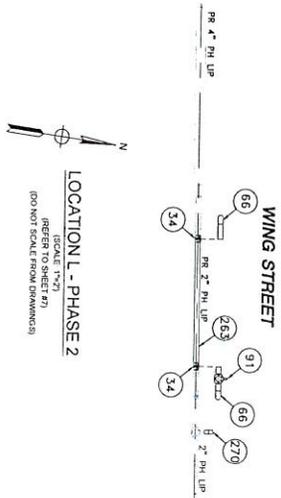


LOCATION L - PLAN VIEW  
(SCALE 1"=20')  
(REFER TO SHEET #1)  
(DO NOT SCALE FROM DRAWINGS)



LOCATION L - PHASE 1  
(REFER TO SHEET #1)  
(DO NOT SCALE FROM DRAWINGS)

SOUTH SIXTH STREET



LOCATION L - PHASE 2  
(REFER TO SHEET #1)  
(DO NOT SCALE FROM DRAWINGS)

SOUTH SIXTH STREET

ITEM	QTY	SIZE	MAIMMO NO.	DESCRIPTION	MATERIAL
34	AS REQUIRED	2"	500834	COUPLING, ELECTROFUSION, IPS, HDPE 3408, ASTM D3350, ASTM F1055, COMPATIBLE FOR FUSION TO HDPE 3408/4710 PIPE, GFCP OR APPROVED EQUAL.	ASTM D3350
56	1	4" X 2"	555593	REDUCER, BUTT FUSION, IPS, HDPE 4710, SDR 11, ASTM D2513, ASTM D3350, ASTM D3361, PERFORMANCE PIPE OR APPROVED EQUAL.	ASTM D2513
66	AS REQUIRED	2"	542572	CAP, BUTT FUSION, IPS, HDPE 4710, SDR 11, ASTM D2513, ASTM D3350, ASTM D3361, PERFORMANCE PIPE OR APPROVED EQUAL.	ASTM D2513
91	3	2" X 1/2"	500866	TAPPINGTEE, ELECTROFUSION, IPS X CTS, HDPE 3408/4710, SDR 11, ASTM D2513, ASTM D3350, ASTM D3361, PERFORMANCE PIPE OR APPROVED EQUAL.	ASTM D2513
104	1	2" X 1"	560779	TAPPINGTEE, ELECTROFUSION, IPS X IPS, HDPE 3408/4710, SDR 11, ASTM D2513, ASTM D3350, ASTM D3361, PERFORMANCE PIPE OR APPROVED EQUAL.	ASTM D2513
263	5	2"	554075	PIPE, IPS, HDPE 3408/4710 SDR 11, ASTM D2513, ASTM D3350, PERFORMANCE PIPE OR APPROVED EQUAL.	ASTM D2513
265	10'	4"	554008	PIPE, IPS, HDPE 3408/4710 SDR 11, ASTM D2513, ASTM D3350, PERFORMANCE PIPE OR APPROVED EQUAL.	ASTM D2513
270	AS REQUIRED	1/2"	542509	END CAP, MECHANICAL STRA, CTS, HDPE, PE 4710/3408, ASTM D2513, WITH SS GRIPPING SURROUNDING, ACETAL COLLET AND SPACER REMOVER RING, PE THURST WASHER, BUM-BUM O-RING, ZINC-PLATED CS INSERT STRIPPER, PERFECTION WITH END CAP OR APPROVED EQUAL.	ASTM D2513

PLEASANT STREET AND WING STREET MAIN RELAY - LOCATION L - SCHEDULE OF MATERIALS

ISSUED FOR CONSTRUCTION  
01/20/2021



DATE: 01/20/2021  
SCALE: AS NOTED

**Engineering**  
455 STATE ST. SUITE 200  
WILMINGTON, MA 01897  
WWW.EVERSOURCE.COM

FIELD VERIFY DIMENSIONS PRIOR TO PIPE FABRICATION

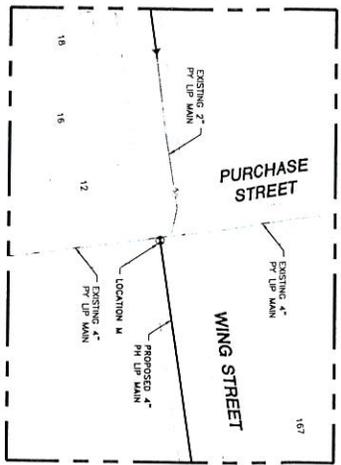
EVERSOURCE ENERGY  
PLEASANT STREET AND WING STREET MAIN RELAY  
NEW BEDFORD MASSACHUSETTS

NO.	DESCRIPTION	DATE	DRAWN BY
0	ISSUED FOR CONSTRUCTION	01/20/2021	MRS. J. B. WILSON

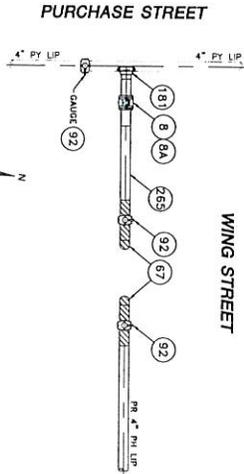
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DRAWN BY: J. B. WILSON  
APP'D BY: J. B. WILSON  
ENR: 01/20/2021

CHECKED BY: J. B. WILSON  
MANAGER: J. B. WILSON  
SHEET NUMBER: MA-MER-21-PPR-029-21  
SHEET 21 OF 24  
REV: 0

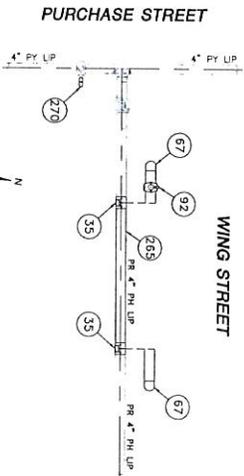
NOTE: REFER TO GENERAL NOTES ON SHEET #2



LOCATION M - PLAN VIEW  
(SCALE 1/8")  
(REFER TO SHEET #1)  
(DO NOT SCALE FROM DRAWINGS)



LOCATION M - PHASE 1  
(SCALE 1/2")  
(REFER TO SHEET #1)  
(DO NOT SCALE FROM DRAWINGS)



LOCATION M - PHASE 2  
(SCALE 1/2")  
(REFER TO SHEET #1)  
(DO NOT SCALE FROM DRAWINGS)

PLEASANT STREET AND WING STREET MAIN RELAY - LOCATION M - SCHEDULE OF MATERIALS					
ITEM	QTY	SIZE	MAXIMO NO.	DESCRIPTION	MATERIAL
8	1	4"	500002	BALL VALVE, BUTT FUSION, IPS, HDPE 3408/4710, SDR 11, ASTM D2513, ASME B16.40, FULL PORT, 1/4 TURN, KEROTEST POLYBALL OR APPROVED EQUAL.	ASTM D2513
8A	1	4"		BOX VALVE PLASTIC, SDR-DR, ADJ. W/IC, NON-LOCKING I/D	PLASTIC
35	AS REQUIRED	4"	500055	COURING, ELECTROFUSION, IPS, HDPE 3408, ASTM D3350, ASTM F1055, COMPATIBLE FOR FUSION TO HDPE	ASTM D3350
67	AS REQUIRED	4"	542338	DR, BUTT FUSION, IPS, HDPE 4710, SDR 11, ASTM D2513, ASTM D3261, PERFORMANCE PIPE OR APPROVED EQUAL.	ASTM D2513
92	4	4" X 1/2"	500667	TAPPING TEL, ELECTROFUSION, IPS X CTS, HDPE 3408/4710, SDR 11, ASTM D2513, ASTM D3261, ASTM F1055, CENTRAL PLASTICS OR APPROVED EQUAL.	ASTM D2513
181	1	4" X 4"	584552	BRANCH SADDLE, ELECTROFUSION WITH BUTT FUSION BRANCH, IPS, HDPE 3408/4710, SDR 11, ASTM D2513, ASTM D3261, CENTRAL PLASTICS OR APPROVED EQUAL.	ASTM D2513
265	15"	4"	554008	PIPE, IPS, HDPE 3408/4710 SDR 11, ASTM D2513, ASTM D3350, PERFORMANCE PIPE OR APPROVED EQUAL.	ASTM D2513
270	AS REQUIRED	1/2"	544509	END CAP, MECHANICAL STAB, CTS, HDPE, PE 4710/3408, ASTM D2513, WITH SS GRIPPING SUPPORT RING, ACETAL COLLET AND SPACER RETAINER RING, PETHINUST WASHER, BUNA-N O-RING, ZINC-PLATED CS INSERT STIFFENER, PERFECTION WITH END CAP OR APPROVED EQUAL.	ASTM D2513

ISSUED FOR CONSTRUCTION  
01/20/2021



DATE: 01/20/2021  
PROJECT NO: 062002032

**EnergyHeating**  
1000 STATE STREET, 10TH FLOOR  
NEW BEDFORD, MASSACHUSETTS 01909  
TEL: 508-548-2222  
WWW.ENERGYHEATING.COM

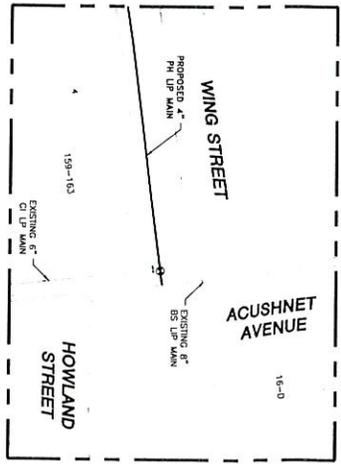
FIELD VERIFY DIMENSIONS PRIOR TO PIPE FABRICATION

REVISION STATUS	
NO.	DESCRIPTION
0	ISSUED FOR CONSTRUCTION

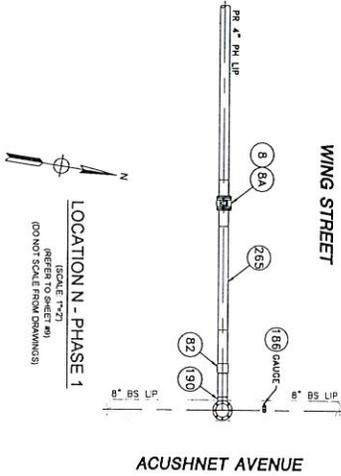
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DRAWN BY: J...  
CHECKED BY: J...  
DATE: 01/20/2021  
PROJECT: PLEASANT STREET AND WING STREET MAIN RELAY  
LOCATION: NEW BEDFORD, MASSACHUSETTS  
SHEET 22 OF 24  
MANEB-21-P1P-02B-22  
0

EVERSOURCE ENERGY  
MANEB-21-P1P-02B-22

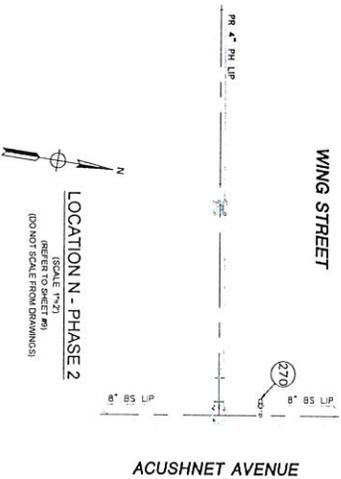
NOTE: REFER TO GENERAL NOTES ON SHEET #2



LOCATION N - PLAN VIEW  
(SCALE 1"=20')  
(REFER TO SHEET #)  
(DO NOT SCALE FROM DRAWINGS)



LOCATION N - PHASE 1  
(SCALE 1"=20')  
(REFER TO SHEET #)  
(DO NOT SCALE FROM DRAWINGS)



LOCATION N - PHASE 2  
(SCALE 1"=20')  
(REFER TO SHEET #)  
(DO NOT SCALE FROM DRAWINGS)

ITEM	QTY	SIZE	MAXIMUM NO.	DESCRIPTION	MATERIAL
8	1	4"	501023	BALL VALVE, BUTT FUSION, IPS, HOPE 3408/4710, SDR 11, ASTM D2513, ASME B16.40 FULL PORT, 1/4 TURN, KEROFEST POLYBALL OR APPROVED EQUAL.	ASTM D2513
8A	1	4"	546254	BOX VALVE, PLASTIC, SNAP-ON, A01, W/CI NON-LOCKING UD	PLASTIC
82	1	4"	546254	TRANSITION FITTING, STEEL TO HDPE, SDR 11, ASTM A53 STEEL W/WELD END, HDPE 3408 W/RUFFT FUSION END, ASTM D2513, ASTM F792, ANSI B31.8, PERFECTION OR APPROVED EQUAL.	ASTM A53, HOPE 3408
186	1	3/4" x 1/2"	578021	SERVICE TEE, WELD X MECHANICAL, COUPLING FOR HDPE, CS, PRESSER STYLE 90 TAP-N-VALVE WITH STYLE 501 TRANSITION COUPLING OUTLET, FORGED STEEL BODY BEVELLED FOR WELDING, STYLE 501 TRANSITION COUPLING TO HAVE THREADED BODY, INTERNAL, STIFFENER WITH GASKET, SPRING WASHER AND GRIP RING WITH THREADED NUT.	
190	1	4"	578137	3-WAY TEE, WELD X WELD, TO WILLIAMSON, ASTM A152 OR ASTM A234 W/BB, WITH FLANGED CAP AND COMPLETION PLUG.	ASTM A152
205	20	4"	554008	PIPE, IPS, HOPE 3408/4710 SDR 11, ASTM D2513, ASTM D2520, PERFORMANCE PIPE OR APPROVED EQUAL.	ASTM D2513
270	AS REQUIRED	1/2"	542809	END CAP, MECHANICAL STAB CTS, HDPE, PE 4710/3408, ASTM D2513, WITH SS GRIPPING SUPPORT RING, ACTUAL COLLET AND SPACER REMAINDER RINGS, PE THRUST WASHER, BUVA-N O-RING, ZINC-PLATED CS INSERT STIFFENER, PERFECTION WITH END CAP OR APPROVED EQUAL.	ASTM D2513

ISSUED FOR CONSTRUCTION  
01/20/2021



SEALING BY  
01/20/2021  
06/30/2022  
**Englineering**  
www.englineering.com

FIELD VERIFY DIMENSIONS PRIOR TO PIPE FABRICATION

NO.	DESCRIPTION	REVISION STATUS	DATE	BY
0	ISSUED FOR CONSTRUCTION		01/20/2021	DW/CA/BK

SCALE: AS NOTED

PROJECT: PLEASANT STREET AND WING STREET MAIN RELAY  
NEW BEDFORD, MASSACHUSETTS

DATE: 01/20/2021  
SHEET NUMBER: SHEET 23 OF 24  
REV NO: 0

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

