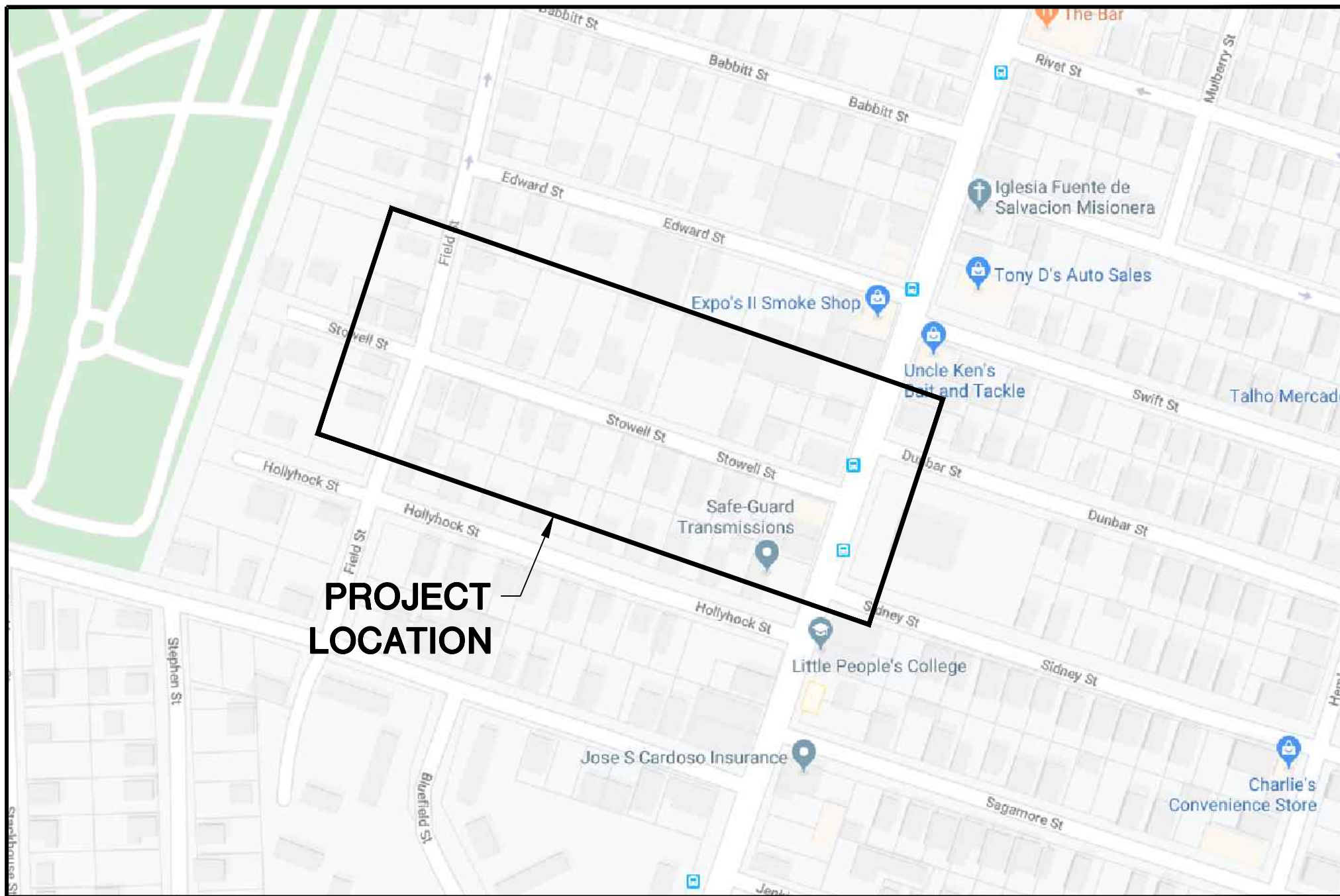


# EVERSOURCE ENERGY

## STOWELL STREET MAIN RELAY NEW BEDFORD, MASSACHUSETTS ENE PROJECT #: 2000000.36 EVERSOURCE PROJECT #: 1301152

### SHEET INDEX

SHEET NUMBER	DESCRIPTION
1	SITE PLAN, DRAWING LEGEND AND SHEET INDEX
2	GENERAL NOTES AND SCHEDULE OF MATERIALS
3	INSTALLATION PLAN
4	INSTALLATION PLAN
5	INSTALLATION DETAIL #1 AND SCHEDULE OF MATERIALS
6	INSTALLATION DETAIL #2 AND SCHEDULE OF MATERIALS



### SITE PLAN

NEW BEDFORD, MASSACHUSETTS  
(NOT TO SCALE)

### SCOPE OF WORK

RELAY 250' OF 3" LP CI AND 335' OF 4" LP CI  
WITH 595' OF 2" LP PH ON STOWELL STREET  
FROM FIELD STREET TO DARTMOUTH STREET.

### LOCUS PLAN NOT TO SCALE

### 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 COUPLING

A	ISSUED FOR CONSTRUCTION	01/06/2020	MR/AB/EK
NO.	DESCRIPTION	DATE	DW/CK/AP

### REVISION STATUS

## EVERSOURCE ENERGY

### STOWELL STREET MAIN RELAY

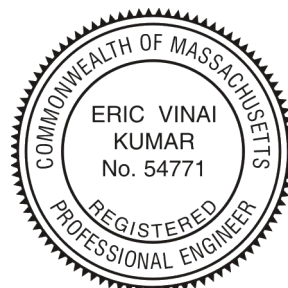
### NEW BEDFORD, MASSACHUSETTS

### SITE PLAN, DRAWING LEGEND AND SHEET INDEX

SCALE: NOT TO SCALE SHEET 1 OF 6

DRAWN BY / DATE MR 11/27/2019	CHECKED BY / DATE AB 01/06/2020	SHEET NUMBER MA-20-PIP-NEB-022-01	REV. NO. 0
APPROVED BY / DATE	MA20PIPNEB022R0		

SEALED BY:



SIGNATURE

SEALED ON:

01/08/2020

EVERSOURCE ENERGY REVIEWER ENGINEERING

LICENSE EXPIRATION:

06/30/2020

EVERSOURCE ENERGY REVIEWER CONSTRUCTION

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.

**ENEngineering**

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WWW.ENENGINEERING.COM

FIELD VERIFY DIMENSIONS  
PRIOR TO PIPE FABRICATION



1. MAINS AND SERVICES SHALL BE PRESSURE TESTED IN ACCORDANCE WITH EVERSOURCE OM-205. AT A MINIMUM TEST PRESSURE SHALL BE 90 PSIG FOR 4 HOURS. TEST MEDIUM SHALL BE NITROGEN OR AIR.

2. MAOP LP = 14" W.C. LIP= 35 PSIG.

3. CONTRACTOR TO LOCATE ALL UNDERGROUND FACILITIES PRIOR TO DIGGING.

4. BACKFILL WITH SAND WHERE PIPE TRENCH IS UNDER OR WITHIN 2' OF PAVEMENT, CURB, OR SIDEWALK.

5. ALL RIGHT-OF-WAY MUST BE STAKED BEFORE GAS MAIN CAN BE INSTALLED, IF INSTALLED IN OFF-STREET ALIGNMENT.

6. COORDINATE WITH EVERSOURCE GAS INSPECTOR FOR LOCATION OF UNDERGROUND UTILITIES PRIOR TO STARTING ANY EXCAVATION. EXERCISE CARE WHEN EXCAVATING NEAR EXISTING STRUCTURES.

7. UTILITY LOCATIONS SHOWN ON PLANS ARE APPROXIMATE AND MAY NOT BE ALL INCLUSIVE. CONTRACTOR SHALL CALL 811 AND LOCAL GOVERNMENT AGENCIES PRIOR TO CONSTRUCTION FOR ALL UTILITY LOCATIONS.

8. ALL WORK SHALL BE PERFORMED PER EVERSOURCE, LOCAL, STATE AND FEDERAL REGULATIONS & STANDARDS.

9. CONTACT CITY OF NEW BEDFORD AND DEPARTMENT OF PUBLIC WORKS PRIOR TO COMMENCEMENT OF WORK AND PRIOR TO ANY PROPOSED ROAD CLOSURES.

10. CONTACT MASSACHUSETTS DEPARTMENT OF TRANSPORTATION WHEN REQUIRED.

11. ALL DISTURBED SOIL AND PAVEMENT SHALL BE RESTORED TO MATCH EXISTING CONDITION.

12. CONTACT PROJECT MANAGER PRIOR TO ANY FIELD CHANGES.

13. CONTRACTOR SHALL AVOID IMPACTING ANY AND ALL PRIVATE DRAINS AND DRIVEWAY CULVERTS.

14. ALL SEWER LATERALS THAT ARE CROSSED SHALL BE DOCUMENTED PRIOR TO AND AFTER CONSTRUCTION TO ENSURE NO DAMAGE WAS MADE TO EXISTING PIPES & STRUCTURES.

15. EXISTING GAS SERVICE LOCATIONS ARE APPROXIMATE & SHALL BE VERIFIED IN FIELD.

16. ALL PIPE TO BE INSTALLED WITH A MINIMUM DEPTH IN ACCORDANCE WITH EVERSOURCE STANDARDS.

17. ALL PROPOSED PIPE WILL BE INSTALLED VIA OPEN CUT/DIRECT BURY UNLESS OTHERWISE SPECIFIED.

18. THIS DOCUMENT REQUIRES A REVISION IF ANY OF THE FOLLOWING ARE REQUIRED;

1) IF THE TIE IN POINT MOVES TO A DIFFERENT LOCATION THAN SHOWN.

2) IF A CHANGE TO THE GAS FLOW PATH INCLUDING BUT NOT LIMITED TO THE LOCATION OR ORIENTATION OF TEES, BRANCHES, AND HOT TAP FITTING OR A CHANGE IN THE LOCATION OF VALVES IS REQUIRED.

3) IF THE WORK IS WITHIN 50 FT OF A PRESSURE REGULATING STATION, DISTRICT REGULATOR OR GATE STATION AND ADDITIONAL OFFSETS ARE REQUIRED THAN WHAT IS SHOWN.

4) A CHANGE IN PIPE SIZE, MATERIAL, OR WALL THICKNESS IS REQUIRED.

19. EXISTING CONDITIONS INCLUDING LOCATION, SIZE, MATERIAL, INTERNAL PRESSURE, RATINGS OF GAS FACILITIES ARE BASED OFF HISTORICAL DOCUMENTATION AND HAS NOT BEEN FIELD VERIFIED. WHEN THE PIPE IS EXPOSED THIS DRAWING OR PROCEDURE REQUIRES A REVISION IF GAS FACILITIES ARE FOUND TO MEET ANY OF THE FOLLOWING;

1) PIPE IS OF A DIFFERENT MATERIAL, SIZE, WALL THICKNESS OR PRESSURE CLASS THAN SHOWN.

2) INTERNAL PRESSURE IS MEASURED AND IS FOUND NOT TO BE CONSISTENT WITH THE OPERATING SYSTEM SHOWN.

3) IF THE GAS FLOW PATH INCLUDING BUT NOT LIMITED TO THE ORIENTATION OF TEES, BRANCHES, AND HOT TAP FITTING OR THE LOCATION OF VALVES IS NOT AS SHOWN.

4) IF THE MAIN IS FOUND TO BE OVER 5' FROM WHERE IS IT IS DIMENSIONED.

5) IF MULTIPLE OR ADDITIONAL MAINS AND SERVICES ARE FOUND THAN WHAT IS SHOWN.

20. SQUEEZE LOCATIONS ARE SHOWN DIAGRAMMATICAL. SQUEEZE OPERATIONS SHOULD BE COMPLETED IN ACCORDANCE WITH OM-233.

21. MATERIAL AND CONSTRUCTION SHALL CONFORM TO EVERSOURCE GAS STANDARDS.

22. 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.

23. LOCATIONS SHOWN ON THE DRAWING ARE APPROXIMATE. EXACT LOCATIONS OF TIE-INS SHALL BE DETERMINED AT THE TIME OF CONSTRUCTION TO SUIT FIELD CONDITIONS. VERIFY LOCATIONS OF ALL EXISTING UTILITIES PRIOR TO BEGINNING ANY WORK.

24. ALL LIVE GAS WORK SHALL BE PERFORMED BY OR AT THE DIRECTION AND UNDER THE DIRECT SUPERVISION OF EVERSOURCE GAS PERSONNEL.

25. ROADWAY, SIDEWALKS AND GRASS DISTURBED SHALL BE RESTORED TO THE SATISFACTION OF THE CITY OR TOWN. PLANT BEDS TO BE RELOCATED TO EXISTING REGULATOR LOCATION.

26. SERVICES TO BE TIED INTO NEW MAIN.

27. ENSURE ALL SERVICES HAVE UPGRADED PRESSURE REGULATORS INSTALLED PRIOR TO ACTIVATION.

28. VENT STACKS TO BE SIZED PER EVERSOURCE STANDARD OM-225.

STOWELL STREET MAIN RELAY - SCHEDULE OF MATERIALS					
ITEM	QTY	SIZE	MAXIMO NO.	DESCRIPTION	MATERIAL
1	595'	2"		HDPE PIPE, 2", 0.216 IN THK WALL, PE 4710, DR 11	HDPE
2	1	2"		VALVE, BALL, FULL OPENING, PLASTIC	HDPE
3	1	2"		BOX, VALVE, PLASTIC, SNAP-ON, ADJ, W/CI NON-LOCKING LID	HDPE
4	AS REQUIRED	2"		PLASTIC 45 DEG ELBOW, DR 11	HDPE
5	AS REQUIRED	2"		PLASTIC 90 DEG ELBOW. DR 11	HDPE
6	AS REQUIRED	2"		PLASTIC END CAP	HDPE
7	AS REQUIRED	2"		METFIT COUPLING	HDPE
8	1	3" X 2"		3" X 2" MUELLER SERVI-SEAL	
9	4	4" X 2"		4" X 2" MUELLER SERVI-SEAL	
10	3	2" X 1"		EF 2" X 1" TEE	HDPE
11	2	4"		COMPRESSION END CAP	

A	ISSUED FOR CONSTRUCTION	01/06/2020	MR/AB/EK
NO.	DESCRIPTION	DATE	DW/CK/AP
REVISION STATUS			
EVERSOURCE ENERGY			
STOWELL STREET MAIN RELAY			
NEW BEDFORD, MASSACHUSETTS			
GENERAL NOTES AND SCHEDULE OF MATERIALS			
SCALE: NOT TO SCALE		SHEET 2 OF 6	
DRAWN BY / DATE	CHECKED BY / DATE	SHEET NUMBER	REV. NO.
MR 11/27/2019	AB 01/06/2020		
APPROVED BY / DATE	MA20PIPNEB022R0	MA-20-PIP-NEB-022-02	0

ISSUED FOR CONSTRUCTION  
01/06/20

SEALED BY:

COMMONWEALTH OF MASSACHUSETTS

ERIC VINAI KUMAR

No. 54771

REGISTERED PROFESSIONAL ENGINEER

SIGNATURE

SEALED ON:

01/08/2020

EVERSOURCE ENERGY REVIEWER ENGINEERING

LICENSE EXPIRATION:

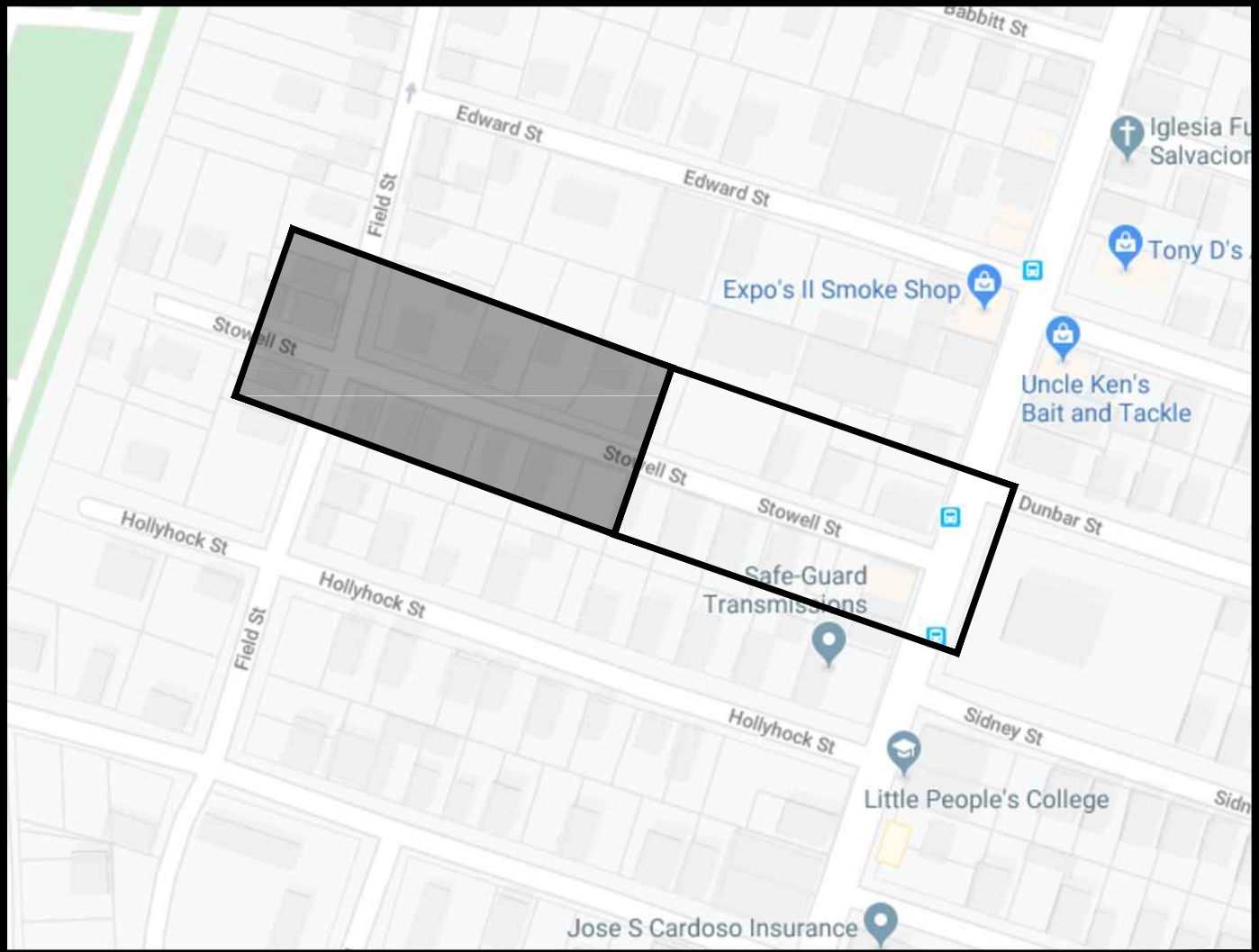
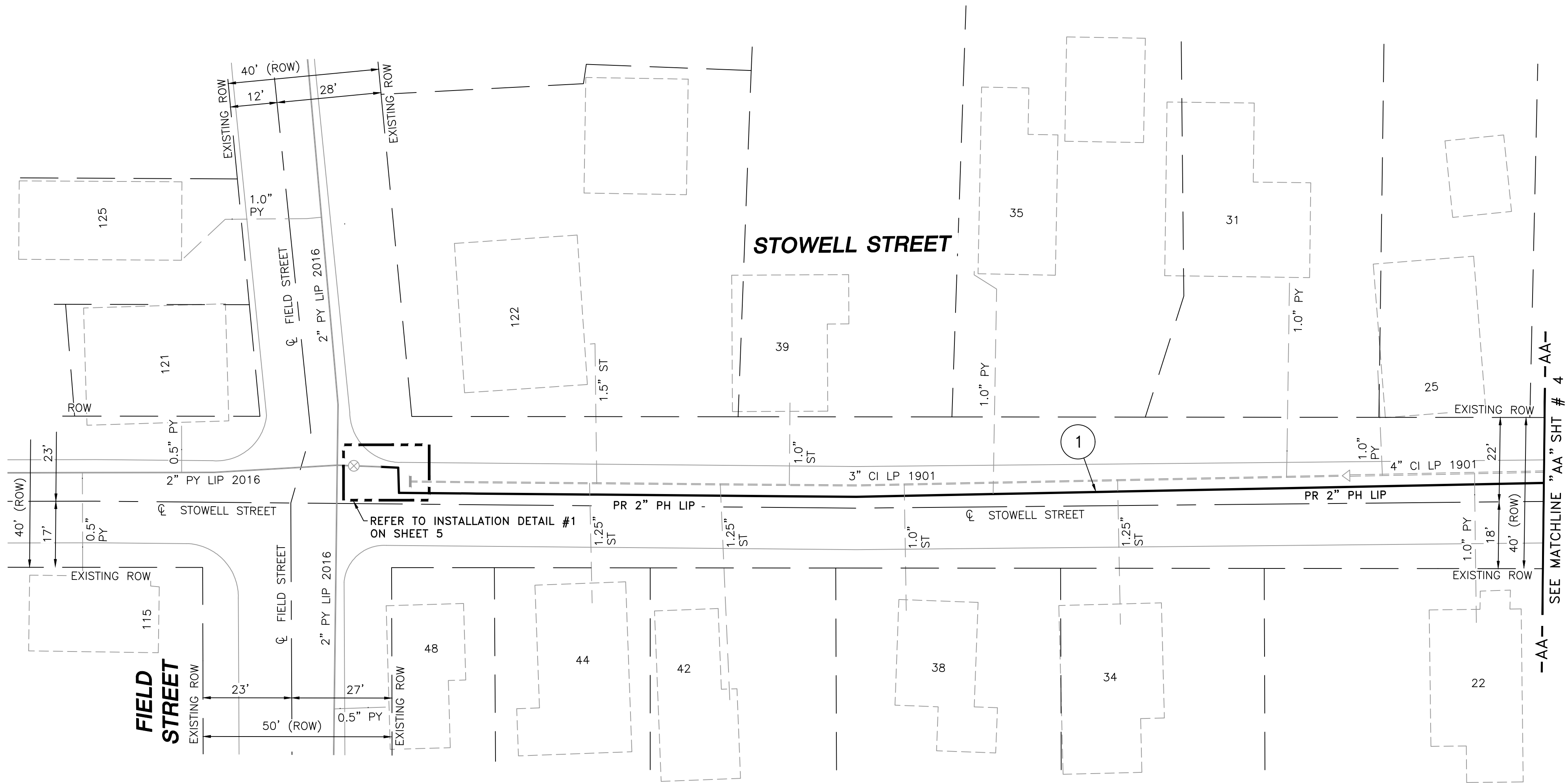
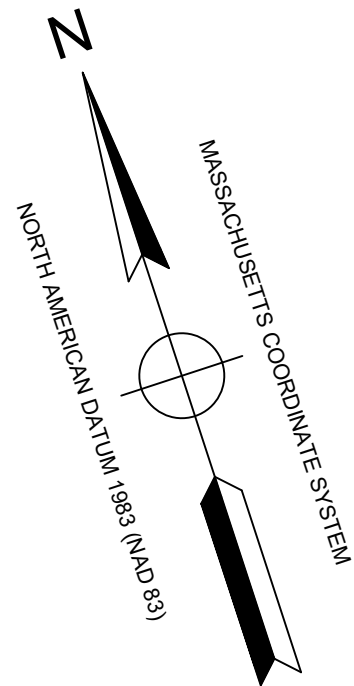
06/30/2020

EVERSOURCE ENERGY REVIEWER CONSTRUCTION

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.

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WWW.ENENGINEERING.COM

FIELD VERIFY DIMENSIONS  
PRIOR TO PIPE FABRICATION



LOCUS PLAN  
NOT TO SCALE

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 COUPLING

- 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.

LENGTH	SIZE	MATERIAL	DESCRIPTION
315'	2"	PH	INSTALL
250'	3"	CI	RETIRED
55'	4"	CI	RETIRED

ISSUED FOR  
CONSTRUCTION  
01/06/20

SEALED BY:



SIGNATURE

SEALED ON:

01/08/2020

LICENSE  
EXPIRATION:

06/30/2020

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PRIOR TO PIPE FABRICATION

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NO.	DESCRIPTION	DATE	DW/CK/AP

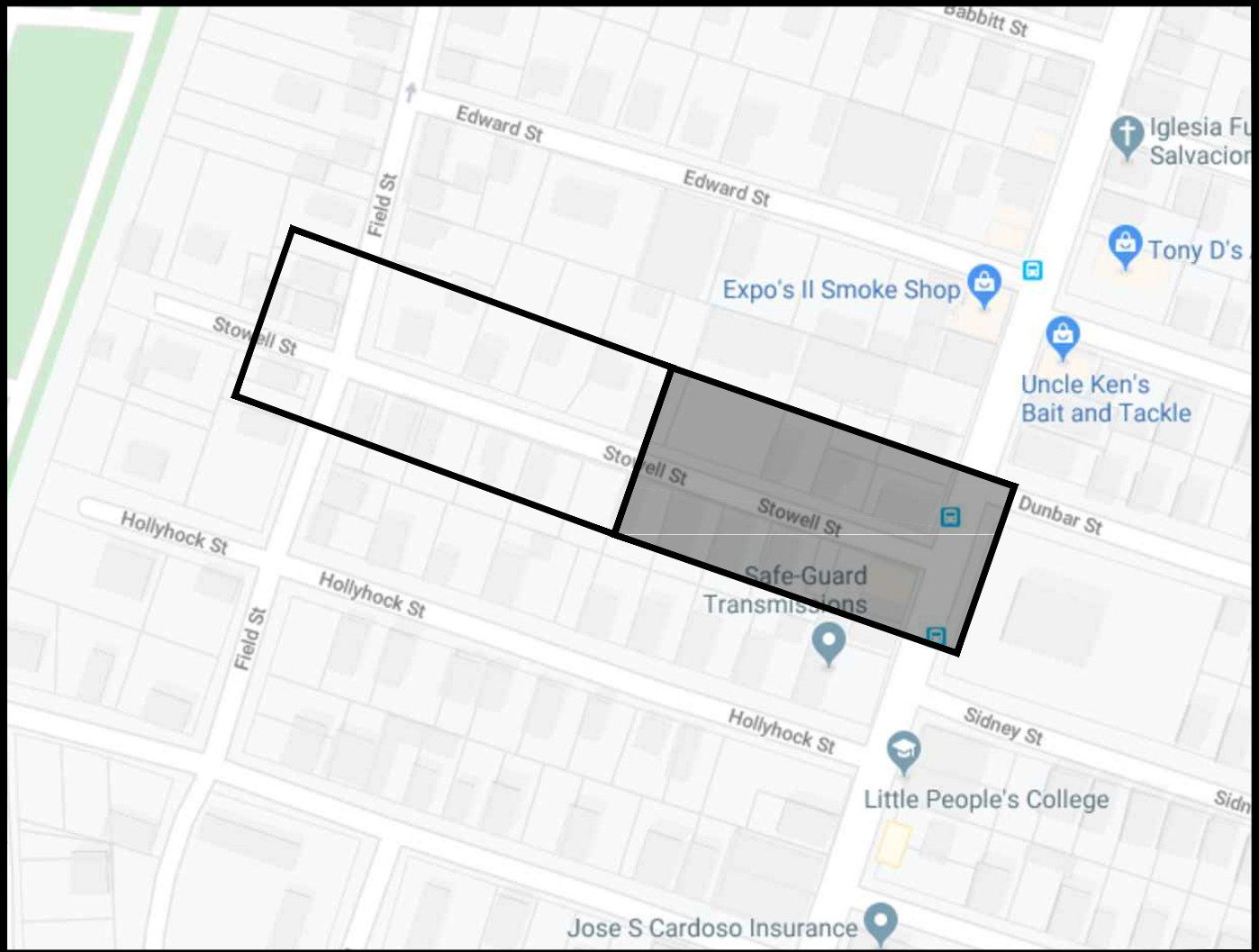
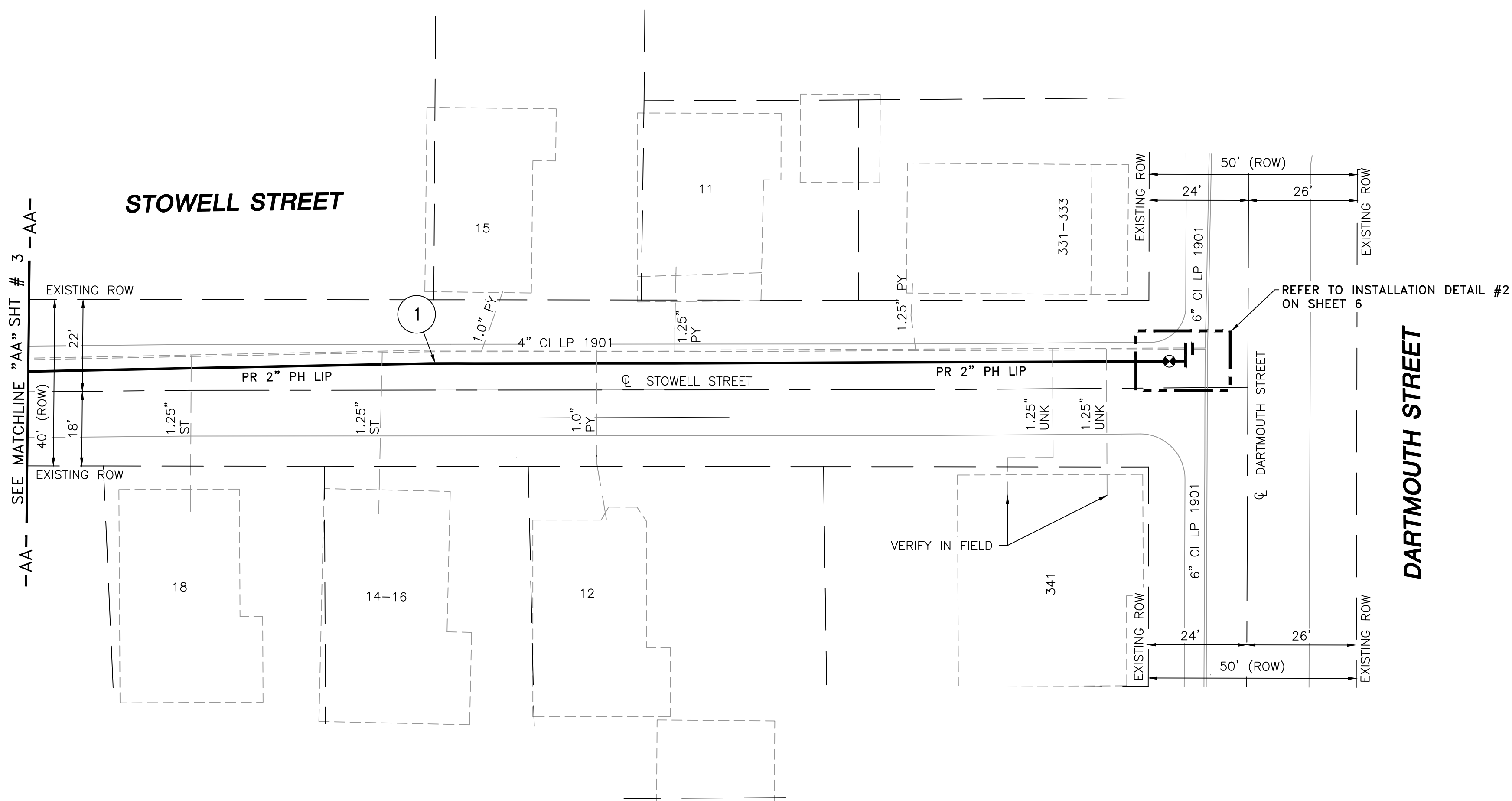
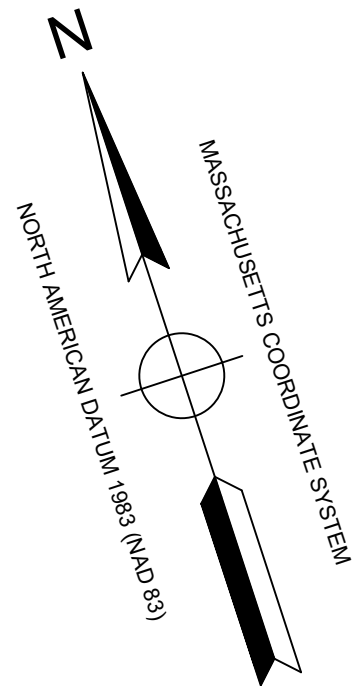
REVISION STATUS


**EVERSOURCE**  
ENERGY  
STOWELL STREET MAIN RELAY  
NEW BEDFORD, MASSACHUSETTS

INSTALLATION PLAN


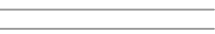


























SCALE: 1"=20'		SHEET 3 OF 6	
DRAWN BY / DATE MR 11/27/2019	CHECKED BY / DATE AB 01/06/2020	SHEET NUMBER MA-20-PIP-NEB-022-03	REV. NO. 0
APPROVED BY / DATE		MA20PIPNEB022R0	





 **LOCUS PLAN**  
NOT TO SCALE

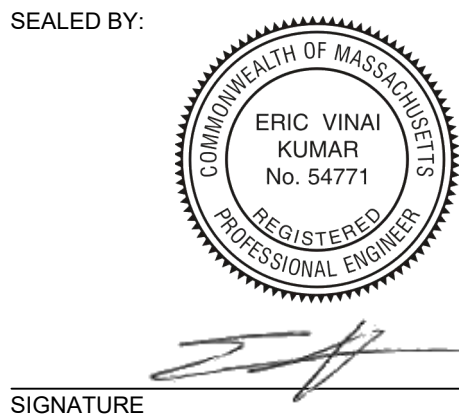
**DRAWING LEGEND**

	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 COUPLING

- NOTES:
- CONTRACTOR TO POTHOLE EXISTING UTILITIES AT CROSSING LOCATIONS PRIOR TO CONSTRUCTION.
  - REFER TO GENERAL NOTES AND SCHEDULE OF MATERIALS ON SHEET #2.

LENGTH	SIZE	MATERIAL	DESCRIPTION
280'	2"	PH	INSTALL
280'	4"	CI	RETIRE

**ISSUED FOR  
CONSTRUCTION**  
01/06/20



SEALED ON:	01/08/2020	EVERSOURCE ENERGY REVIEWER ENGINEERING
LICENSE EXPIRATION:	06/30/2020	EVERSOURCE ENERGY REVIEWER CONSTRUCTION

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.

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FIELD VERIFY DIMENSIONS  
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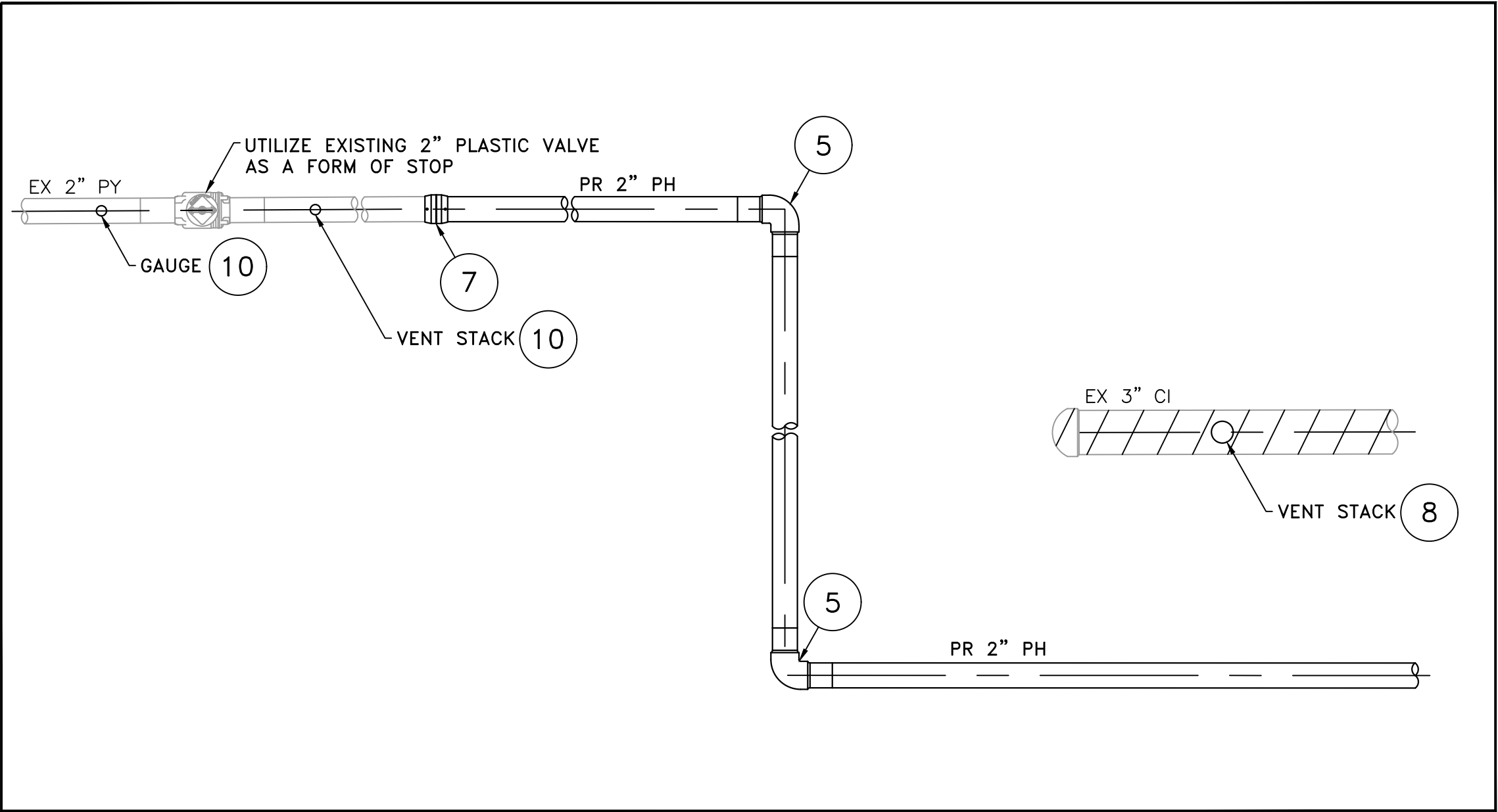
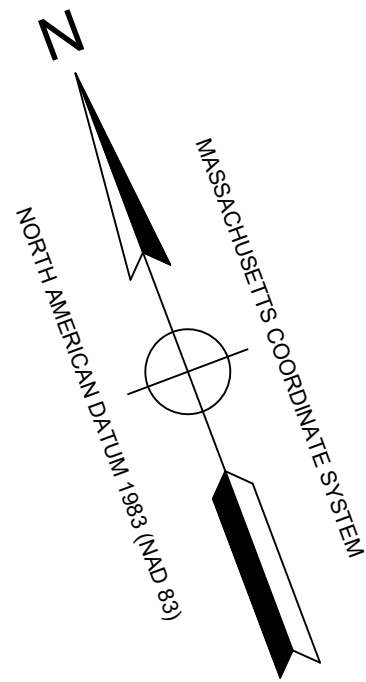
A	ISSUED FOR CONSTRUCTION	01/06/2020	MR/AB/EK
NO.	DESCRIPTION	DATE	DW/CK/AP

REVISION STATUS

**EVERSOURCE**  
ENERGY  
STOWELL STREET MAIN RELAY  
NEW BEDFORD, MASSACHUSETTS

INSTALLATION PLAN

SCALE: 1"=20'		SHEET 4 OF 6	
DRAWN BY / DATE MR 11/27/2019	CHECKED BY / DATE AB 01/06/2020	SHEET NUMBER MA-20-PIP-NEB-022-04	REV. NO. 0
APPROVED BY / DATE	MA20PIPNEB022R0		



INSTALLATION DETAIL #1

(SCALE: 1"=1')  
(REFER TO SHEET #3)

STOWELL STREET MAIN RELAY - INSTALLATION DETAIL #1 - SCHEDULE OF MATERIALS					
ITEM	QTY	SIZE	MAXIMO NO.	DESCRIPTION	MATERIAL
4	AS REQUIRED	2"		PLASTIC 45 DEG ELBOW, DR 11	HDPE
5	AS REQUIRED	2"		PLASTIC 90 DEG ELBOW, DR 11	HDPE
7	AS REQUIRED	2"		METFIT COUPLING	HDPE
8	1	3" X 2"		3" X 2" MUELLER SERVI-SEAL	
10	2	2" X 1"		EF 2" X 1" TEE	HDPE

- STANDARD DRAWING 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:
    - IF THE TIE IN POINT MOVES TO A DIFFERENT SEGMENT OF PIPE THAN SHOWN
    - IF A CHANGE IN THE LOCATION OF VALVES IS REQUIRED
    - IF THERE IS ANY CHANGE TO WHAT IS SHOWN ON THE DRAWING WITHIN 50 FEET OF A PRESSURE REGULATING STATION, DISTRICT REGULATOR, OR GATE STATION
  - IF A CHANGE IN PIPE SIZE, MATERIAL, FITTINGS, OR WALL THICKNESS IS REQUIRED.
  - MINOR CHANGES SUCH AS OFFSETS MAY NOT REQUIRE DRAWING CHANGES.
  - 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.
  - CONSTRUCTION DRAWINGS ARE BASED ON 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.
  - ALL WORK SHALL BE PERFORMED PER EVERSOURCE, LOCAL, STATE, OSHA, AND FEDERAL REGULATIONS AND STANDARDS.
  - MATERIAL AND CONSTRUCTION SHALL CONFORM TO EVERSOURCE GAS STANDARDS.
  - 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.
  - LOCATIONS SHOWN ON THE DRAWINGS ARE APPROXIMATE. EXACT LOCATIONS OF INS SHALL BE DETERMINED AT THE TIME OF CONSTRUCTION TO SUIT FIELD CONDITIONS ON THE SPECIFIC TIE-IN POINT. VERIFY LOCATIONS OF ALL EXISTING UTILITIES PRIOR TO BEGINNING ANY TIE IN WORK.
  - 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.
  - EXCAVATOR IS REQUIRED TO PROTECT EXISTING UTILITIES, STRUCTURES, LANDSCAPES FEATURES, SIGNAGE, CURBS, ETC. CARE SHOULD BE TAKEN NOT TO DISTURB OR DAMAGE SUCH ITEMS. ROADWAY, SIDEWALKS, AND GRASS DISTURBED SHALL BE RESTORED TO THE SATISFACTION OF THE CITY OR TOWN. PLANT BEDS WILL BE RELOCATED TO THEIR EXISTING REGULAR LOCATION.
  - IF THE PROJECT IS WITHIN 50 FEET OF A DISTRICT REGULATOR OR GATE STATION, ENSURE THAT A QUALIFIED I&R TECHNICIAN IS ON SITE.
  - 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.
  - PROPERTY LINES AND STRUCTURES DEPICTED ON PLANS ARE BASED ON GIS INFORMATION AND HAVE NOT BEEN VERIFIED BY LAND SURVEY UNLESS NOTED.
  - ANY ADDITIONAL NOTES MUST BE REVIEWED AND APPROVED BY GAS ENGINEERING.

A	ISSUED FOR CONSTRUCTION	01/06/2020	MR/AB/EK
NO.	DESCRIPTION	DATE	DW/CK/AP

REVISION STATUS			
EVERSOURCE ENERGY			
STOWELL STREET MAIN RELAY			
NEW BEDFORD, MASSACHUSETTS			
INSTALLATION DETAIL #1 AND SCHEDULE OF MATERIALS			
SCALE: 1"=1'		SHEET 5 OF 6	
DRAWN BY / DATE	CHECKED BY / DATE	SHEET NUMBER	REV. NO.
MR 11/27/2019	AB 01/06/2020	MA-20-PIP-NEB-022-05	0
APPROVED BY / DATE	MA20PIPNEB022R0		

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

ISSUED FOR  
CONSTRUCTION  
01/06/20

SEALED BY:



SIGNATURE

SEALED ON:

01/08/2020

EVERSOURCE ENERGY REVIEWER ENGINEERING

LICENSE  
EXPIRATION:

06/30/2020

EVERSOURCE ENERGY REVIEWER CONSTRUCTION

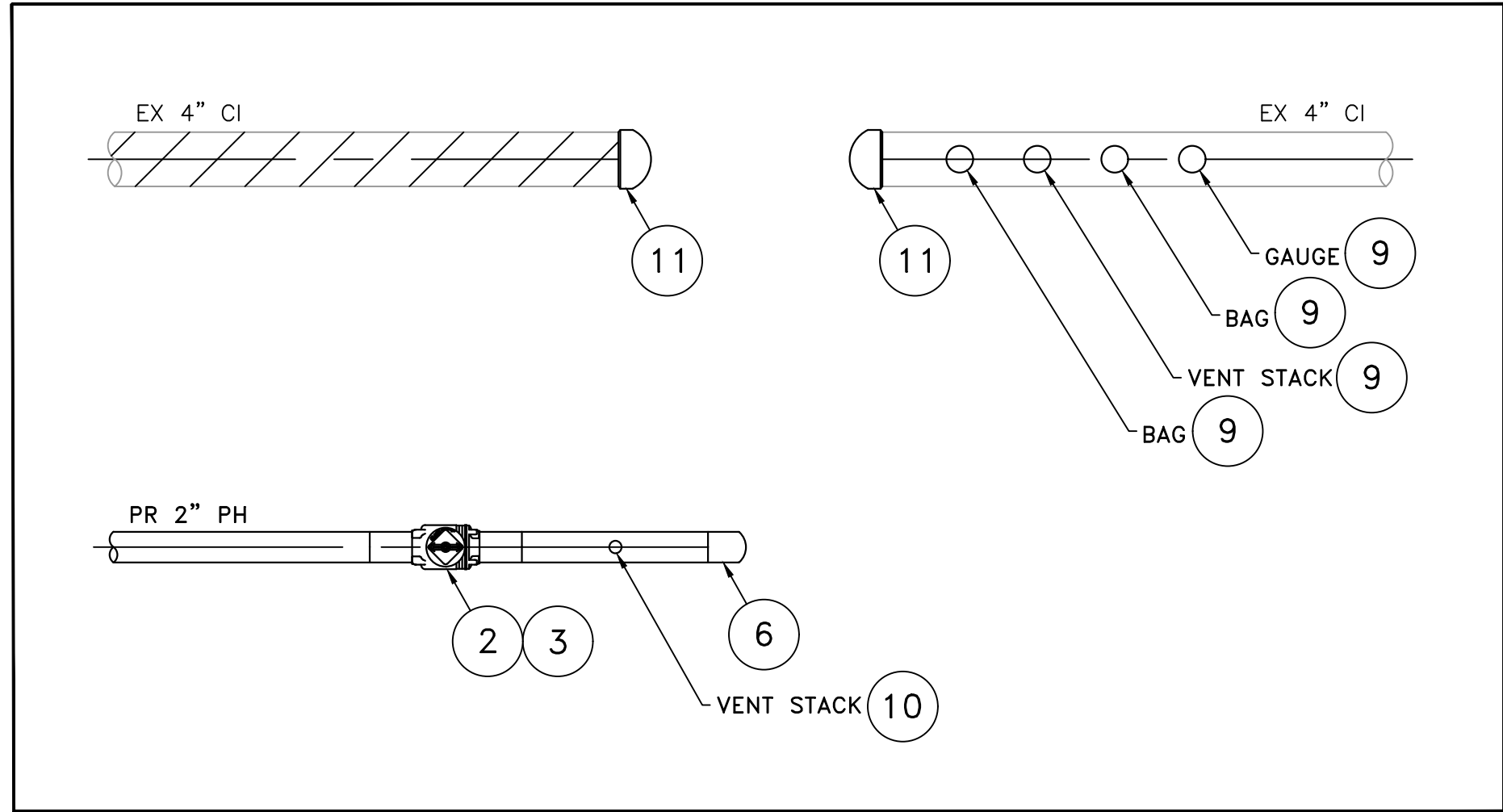
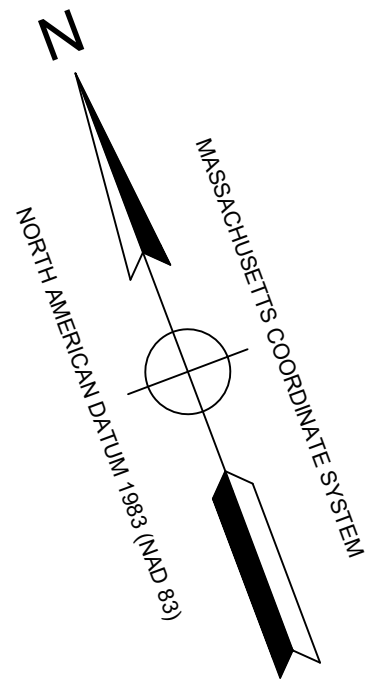
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SYSTEMS, LATEST EDITION.

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FIELD VERIFY DIMENSIONS  
PRIOR TO PIPE FABRICATION





INSTALLATION DETAIL #2

(SCALE: 1"=1')  
(REFER TO SHEET #4)

STOWELL STREET MAIN RELAY - INSTALLATION DETAIL #2 - SCHEDULE OF MATERIALS					
ITEM	QTY	SIZE	MAXIMO NO.	DESCRIPTION	MATERIAL
2	1	2"		VALVE, BALL, FULL OPENING, PLASTIC	HDPE
3	1	2"		BOX, VALVE, PLASTIC, SNAP-ON, ADJ, W/CI NON-LOCKING LID	HDPE
4	AS REQUIRED	2"		PLASTIC 45 DEG ELBOW, DR 11	HDPE
5	AS REQUIRED	2"		PLASTIC 90 DEG ELBOW. DR 11	HDPE
6	AS REQUIRED	2"		PLASTIC END CAP	HDPE
7	AS REQUIRED	2"		METFIT COUPLING	HDPE
9	4	4" X 2"		4" X 2" MUELLER SERVI-SEAL	
10	1	2" X 1"		EF 2" X 1" TEE	HDPE
11	2	4"		COMPRESSION END CAP	

- STANDARD DRAWING 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:
    - IF THE TIE IN POINT MOVES TO A DIFFERENT SEGMENT OF PIPE THAN SHOWN
    - IF A CHANGE IN THE LOCATION OF VALVES IS REQUIRED
    - IF THERE IS ANY CHANGE TO WHAT IS SHOWN ON THE DRAWING WITHIN 50 FEET OF A PRESSURE REGULATING STATION, DISTRICT REGULATOR, OR GATE STATION
  - IF A CHANGE IN PIPE SIZE, MATERIAL, FITTINGS, OR WALL THICKNESS IS REQUIRED.
  - MINOR CHANGES SUCH AS OFFSETS MAY NOT REQUIRE DRAWING CHANGES.
  - 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.
  - CONSTRUCTION DRAWINGS ARE BASED ON 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.
  - ALL WORK SHALL BE PERFORMED PER EVERSOURCE, LOCAL, STATE, OSHA, AND FEDERAL REGULATIONS AND STANDARDS.
  - MATERIAL AND CONSTRUCTION SHALL CONFORM TO EVERSOURCE GAS STANDARDS.
  - 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.
  - LOCATIONS SHOWN ON THE DRAWINGS ARE APPROXIMATE. EXACT LOCATIONS OF INS SHALL BE DETERMINED AT THE TIME OF CONSTRUCTION TO SUIT FIELD CONDITIONS ON THE SPECIFIC TIE-IN POINT. VERIFY LOCATIONS OF ALL EXISTING UTILITIES PRIOR TO BEGINNING ANY TIE IN WORK.
  - 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.
  - EXCAVATOR IS REQUIRED TO PROTECT EXISTING UTILITIES, STRUCTURES, LANDSCAPES FEATURES, SIGNAGE, CURBS, ETC. CARE SHOULD BE TAKEN NOT TO DISTURB OR DAMAGE SUCH ITEMS. ROADWAY, SIDEWALKS, AND GRASS DISTURBED SHALL BE RESTORED TO THE SATISFACTION OF THE CITY OR TOWN. PLANT BEDS WILL BE RELOCATED TO THEIR EXISTING REGULAR LOCATION.
  - IF THE PROJECT IS WITHIN 50 FEET OF A DISTRICT REGULATOR OR GATE STATION, ENSURE THAT A QUALIFIED I&R TECHNICIAN IS ON SITE.
  - 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.
  - PROPERTY LINES AND STRUCTURES DEPICTED ON PLANS ARE BASED ON GIS INFORMATION AND HAVE NOT BEEN VERIFIED BY LAND SURVEY UNLESS NOTED.
  - ANY ADDITIONAL NOTES MUST BE REVIEWED AND APPROVED BY GAS ENGINEERING.

A	ISSUED FOR CONSTRUCTION	01/06/2020	MR/AB/EK
NO.	DESCRIPTION	DATE	DW/CK/AP

REVISION STATUS			
EVERSOURCE ENERGY			
STOWELL STREET MAIN RELAY			
NEW BEDFORD, MASSACHUSETTS			
INSTALLATION DETAIL #2 AND SCHEDULE OF MATERIALS			
SCALE: 1"=1'		SHEET 6 OF 6	
DRAWN BY / DATE	CHECKED BY / DATE	SHEET NUMBER	REV. NO.
MR 11/27/2019	AB 01/06/2020	MA-20-PIP-NEB-022-06	0
APPROVED BY / DATE	MA20PIPNEB022R0		

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

ISSUED FOR  
CONSTRUCTION  
01/06/20

SEALED BY:



SIGNATURE

SEALED ON:

01/08/2020

LICENSE  
EXPIRATION:

06/30/2020

EVERSOURCE ENERGY REVIEWER ENGINEERING

EVERSOURCE ENERGY REVIEWER CONSTRUCTION

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.

**EN**Engineering

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FIELD VERIFY DIMENSIONS  
PRIOR TO PIPE FABRICATION