

EVERSOURCE ENERGY

HUDSON STREET MAIN RELAY
INSTALLATION OF 1322' OF 2" PH LP GAS MAIN
HUDSON STREET
NEW BEDFORD, MASSACHUSETTS

ENE PROJECT #: 2005881.06

EVERSOURCE PROJECT #:

WEST RODNEY FRENCH BOULEVARD (630 TO 672 W RODNEY FRENCH): 4455303

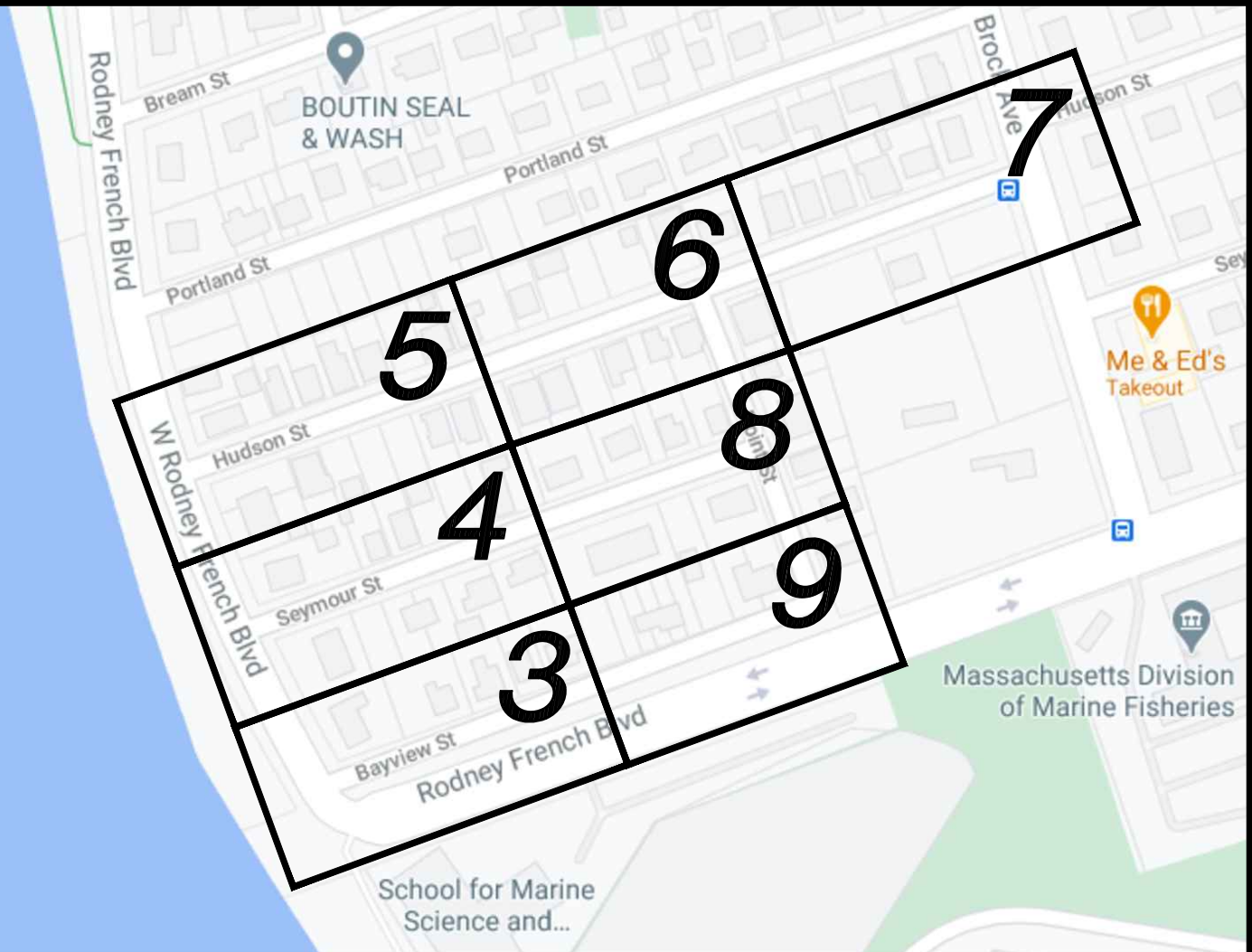
BAYVIEW STREET (W RODNEY FRENCH TO 165 BAYVIEW): 4411979

BAYVIEW/POINT STREET (165 BAYVIEW TO 10 POINT): 4110540

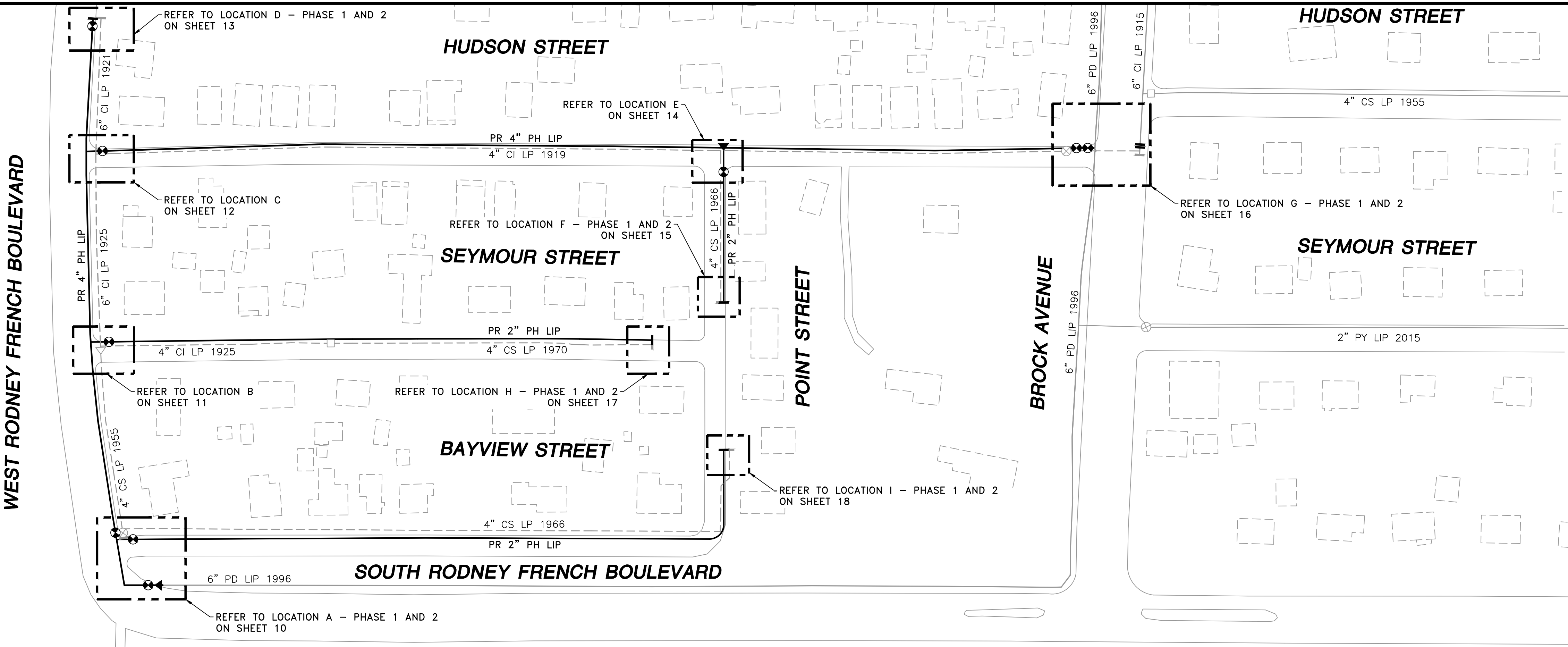
HUDSON STREET AND POINT STREET: 4128290

SEYMOUR STREET: 4113513

POINT STREET (SI): 4616347



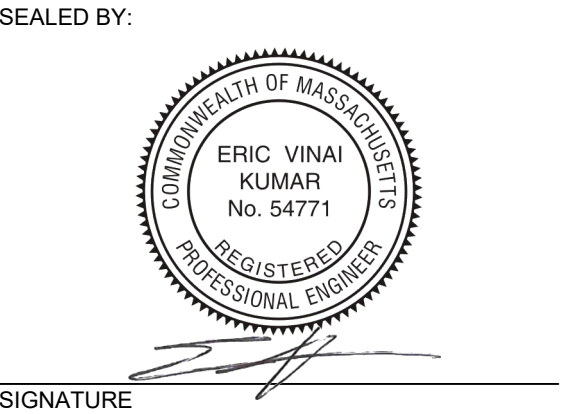
LOCUS PLAN
NOT TO SCALE



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

SITE PLAN
NEW BEDFORD, MASSACHUSETTS
(SCALE: 1"=70')
(DO NOT SCALE FROM DRAWINGS)

ISSUED FOR
CONSTRUCTION
09/14/2021



SEALED BY:

09/15/2021

LICENSE
EXPIRATION:

06/30/2022

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

FIELD VERIFY DIMENSIONS
PRIOR TO PIPE FABRICATION

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| 0 | ISSUED FOR CONSTRUCTION | 09/14/2021 | ZS/AB/EK |
| NO. | DESCRIPTION | DATE | DW/CK/AP |

| REVISION STATUS | | | |
|---|------------------------------------|--------------------------------------|---------------|
| EVERSOURCE ENERGY | | | |
| HUDSON STREET, SEYMOUR STREET, AND BAYVIEW STREET MAIN RELAYS NEW BEDFORD, MASSACHUSETTS | | | |
| SITE PLAN, LOCUS PLAN AND SHEET INDEX | | | |
| SCALE: AS NOTED | | SHEET 1 OF 19 | |
| DRAWN BY / DATE WS 04/01/2021 | CHECKED BY / DATE AB 09/14/2021 | SHEET NUMBER MA-NEB-21-PIP-063-01 | REV. NO. 0 |
| APPROVED BY / DATE EK 09/14/2021 | MANEB21PIP063R0 | | |

GENERAL NOTES

1. IF ANY OF THE FOLLOWING OCCUR A DRAWING REVISION IS REQUIRED AND MUST BE APPROVED AND/OR STAMPED BY THE ENGINEER OF RECORD. CHANGES CAN BE APPROVED AND/OR STAMPED BY A PROJECT ENGINEER, BUT THE ENGINEER OF RECORD MUST BE INFORMED.

A. IF THE TIE IN POINT MOVES TO A DIFFERENT SEGMENT OF PIPE THAN SHOWN

B. IF A CHANGE IN THE LOCATION OF VALVES IS REQUIRED

C. IF THERE IS ANY CHANGE TO WHAT IS SHOWN ON THE DRAWING WITHIN 50 FT OF A PRESSURE REGULATING STATION, DISTRICT REGULATOR, OR GATE STATION

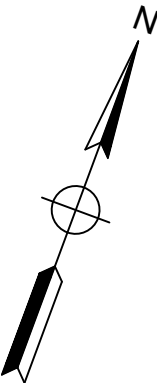
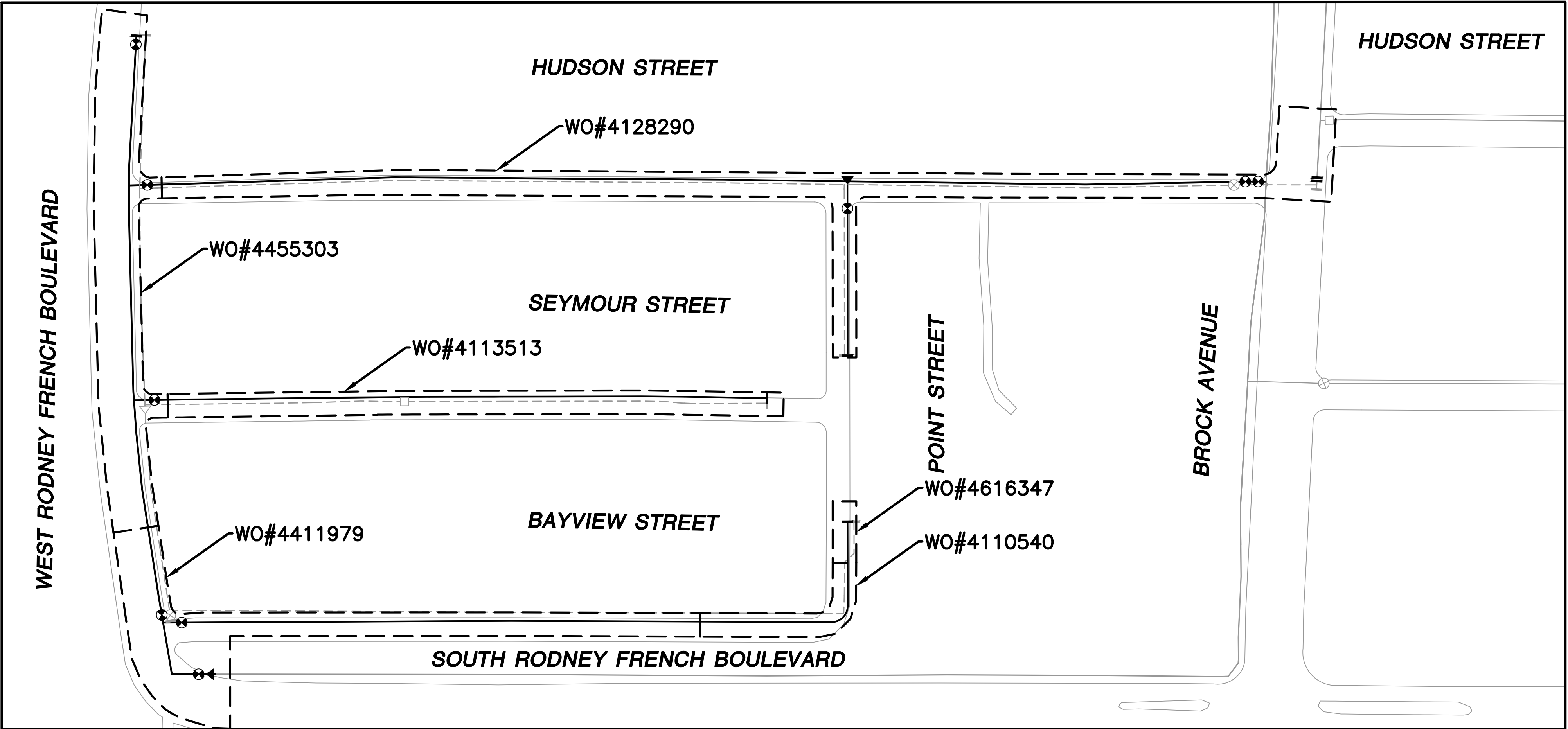
D. IF A CHANGE IN PIPE SIZE, MATERIAL, FITTINGS, OR WALL THICKNESS IS REQUIRED.
2. MINOR CHANGES SUCH AS OFFSETS MAY NOT REQUIRE DRAWING CHANGES.
3. EXCAVATOR SHALL CALL DIGSAFE/CALL BEFORE YOU DIG (DIAL 811) AT LEAST 72 HOURS PRIOR TO CONSTRUCTION. SATURDAYS, SUNDAYS, AND HOLIDAYS ARE EXCLUDED FROM THE 72-HOUR TIME SPAN, NOT CONSIDERED BUSINESS WORKDAYS.
4. CONSTRUCTION DRAWINGS ARE BASED ON EVERSOURCE HISTORICAL DOCUMENTATION AND HAVE NOT BEEN FIELD VERIFIED. WHEN THE PIPE IS EXPOSED AND VARIANCES TO THE CERTIFIED DRAWINGS ARE FOUND, CONTACT GAS ENGINEERING TO DETERMINE PATH FORWARD.
5. ALL WORK SHALL BE PERFORMED PER EVERSOURCE, LOCAL, STATE, OSHA, AND FEDERAL REGULATIONS AND STANDARDS.
6. MATERIAL AND CONSTRUCTION SHALL CONFORM TO EVERSOURCE GAS STANDARDS.
7. THE LOCATIONS OF EXISTING UTILITIES AND UNDERGROUND STRUCTURES ARE APPROXIMATE AND MUST BE FIELD VERIFIED. ADDITIONAL UNDERGROUND FACILITIES MAY EXIST THAT ARE NOT SHOWN ON THESE DRAWINGS WHICH MAY REQUIRE ADDITIONAL OFFSETS IN THE PIPELINE.
8. WORK LOCATIONS SHOWN ON THE DRAWINGS ARE APPROXIMATE. EXACT LOCATIONS OF TIE-INS SHALL BE DETERMINED AT THE TIME OF CONSTRUCTION TO SUIT FIELD CONDITIONS AT THE SPECIFIC TIE-IN POINT. VERIFY LOCATIONS OF ALL EXISTING UTILITIES PRIOR TO BEGINNING ANY TIE-IN WORK.
9. ALL LIVE GAS WORK INCLUDING BUT NOT LIMITED TO TAPPING OF FITTINGS ON LIVE MAINS, STOPPING, MANIPULATING VALVE, ABANDONMENT, SHALL BE PERFORMED BY, OR AT THE DIRECTION AND UNDER THE DIRECT SUPERVISION OF EVERSOURCE GAS PERSONNEL AND IN ACCORDANCE WITH THE WRITTEN PROCEDURE. DRAWING CHANGES MAY ALSO REQUIRE A CHANGE TO THE PROCEDURE.
10. EXCAVATOR IS REQUIRED TO PROTECT EXISTING UTILITIES, STRUCTURES, LANDSCAPE FEATURES, SIGNAGE, CURBS, ETC. CARE SHOULD BE TAKEN NOT TO DISTURB OR DAMAGE SUCH ROADWAY, SIDEWALKS, AND GRASS. DISTURBED SHALL BE RESTORED TO THE SATISFACTION OF THE CITY OR TOWN. PLANT BEDS WILL BE RELOCATED TO THEIR EXISTING REGULAR LOCATION.
11. IF THE PROJECT IS WITHIN 50 FEET OF A DISTRICT REGULATOR OR GATE STATION, ENSURE THAT A QUALIFIED I&R TECHNICIAN IS ON SITE.
12. ALL TRAFFIC CONTROL SHALL CONFORM TO THE LATEST EDITION OF THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), INCLUDING ALL REVISIONS AND ADDENDA. ALL TRAFFIC CONTROL DEVICES WILL BE SUPPLIED BY EXCAVATOR.
13. PROPERTY LINES, STRUCTURES AND EXISTING CONDITIONS DEPICTED ON PLANS ARE BASED ON EVERSOURCE GIS INFORMATION AND HAVE NOT BEEN VERIFIED BY LAND SURVEY UNLESS NOTED.
14. EXISTING SERVICES SHOWN ON PLAN ARE FOR INFORMATION ONLY. PROPOSED SERVICES ARE NOT SHOWN ON PLANS AND ARE TO BE INSTALLED PER EVERSOURCE CONSTRUCTION STANDARDS.
15. PROPOSED WORK SHALL BE PERFORMED AND COMPLETED IN COMPLIANCE WITH ALL PERMITS AND APPROVALS.
16. MAINS AND SERVICES SHALL BE PRESSURE TESTED IN ACCORDANCE WITH EVERSOURCE OM-205.
17. MAOP:

LP = 14" W.C.

LIP = 35 PSIG

IP = 60 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. HIGH VOLUME TAPPING TEES ARE NOT TO BE PRE-TAPPED UNLESS OTHERWISE NOTED.
26. DO NOT SCALE FROM DRAWINGS.



WORK ORDER KEY MAP
(NOT TO SCALE)

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|---|-------------------------|----------------------|----------|
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| 0 | ISSUED FOR CONSTRUCTION | 09/14/2021 | ZS/AB/EK |
| NO. | DESCRIPTION | DATE | DW/CK/AP |
| REVISION STATUS | | | |
| EVERSOURCE ENERGY | | | |
| HUDSON STREET, SEYMOUR STREET, AND BAYVIEW STREET MAIN RELAYS | | | |
| NEW BEDFORD, MASSACHUSETTS | | | |
| GENERAL NOTES AND WORK ORDER KEY MAP | | | |
| SCALE: NOT TO SCALE | | SHEET 2 OF 19 | |
| DRAWN BY / DATE | CHECKED BY / DATE | SHEET NUMBER | REV. NO. |
| WS 04/01/2021 | AB 09/14/2021 | MA-NEB-21-PIP-063-02 | 0 |
| APPROVED BY / DATE | MANEB21PIP063R0 | | |
| EK 09/14/2021 | | | |

ISSUED FOR
CONSTRUCTION
09/14/2021

SEALED BY:



SIGNATURE

SEALED ON:

09/15/2021

LICENSE
EXPIRATION:

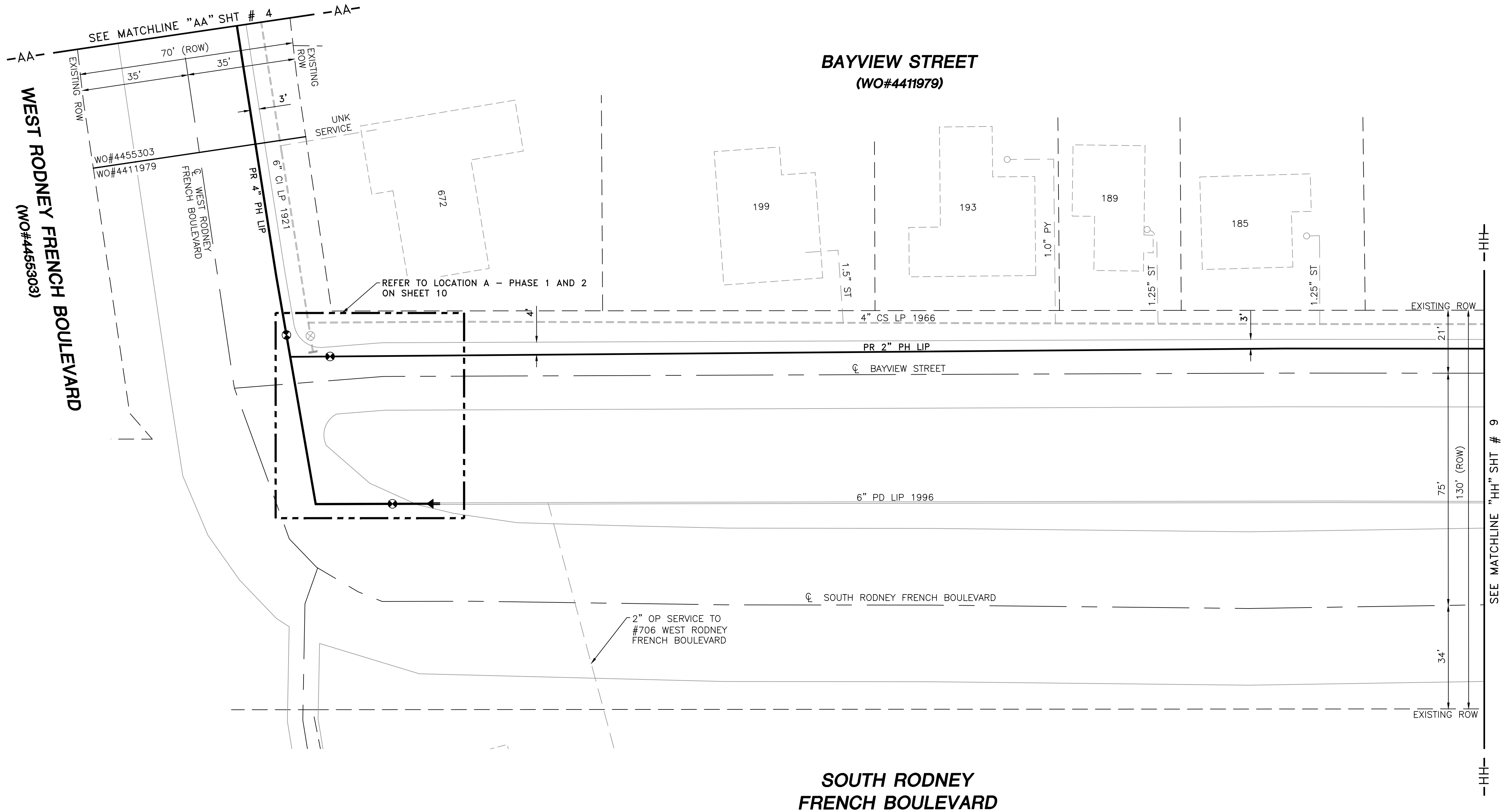
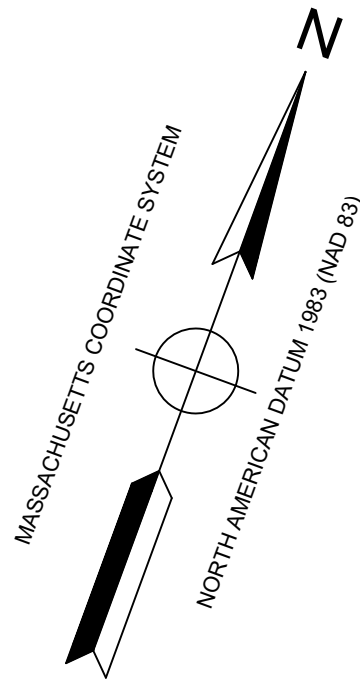
06/30/2022

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FIELD VERIFY DIMENSIONS
PRIOR TO PIPE FABRICATION

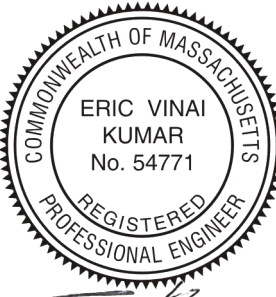


- NOTES:
1. CONTRACTOR TO POTHOLE EXISTING UTILITIES AT CROSSING LOCATIONS PRIOR TO CONSTRUCTION.
 2. REFER TO GENERAL NOTES AND SCHEDULE OF MATERIALS ON SHEET #2.

| LENGTH | SIZE | MATERIAL | DESCRIPTION |
|--------|------|----------|-------------|
| 390' | 2" | PH | INSTALL |
| 195' | 4" | PH | INSTALL |
| 5' | 6" | PH | INSTALL |
| 385' | 4" | CS | RETIRE |
| 110' | 6" | CI | RETIRE |

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09/14/2021

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FIELD VERIFY DIMENSIONS
PRIOR TO PIPE FABRICATION



LOCUS PLAN
NOT TO SCALE

DRAWING LEGEND

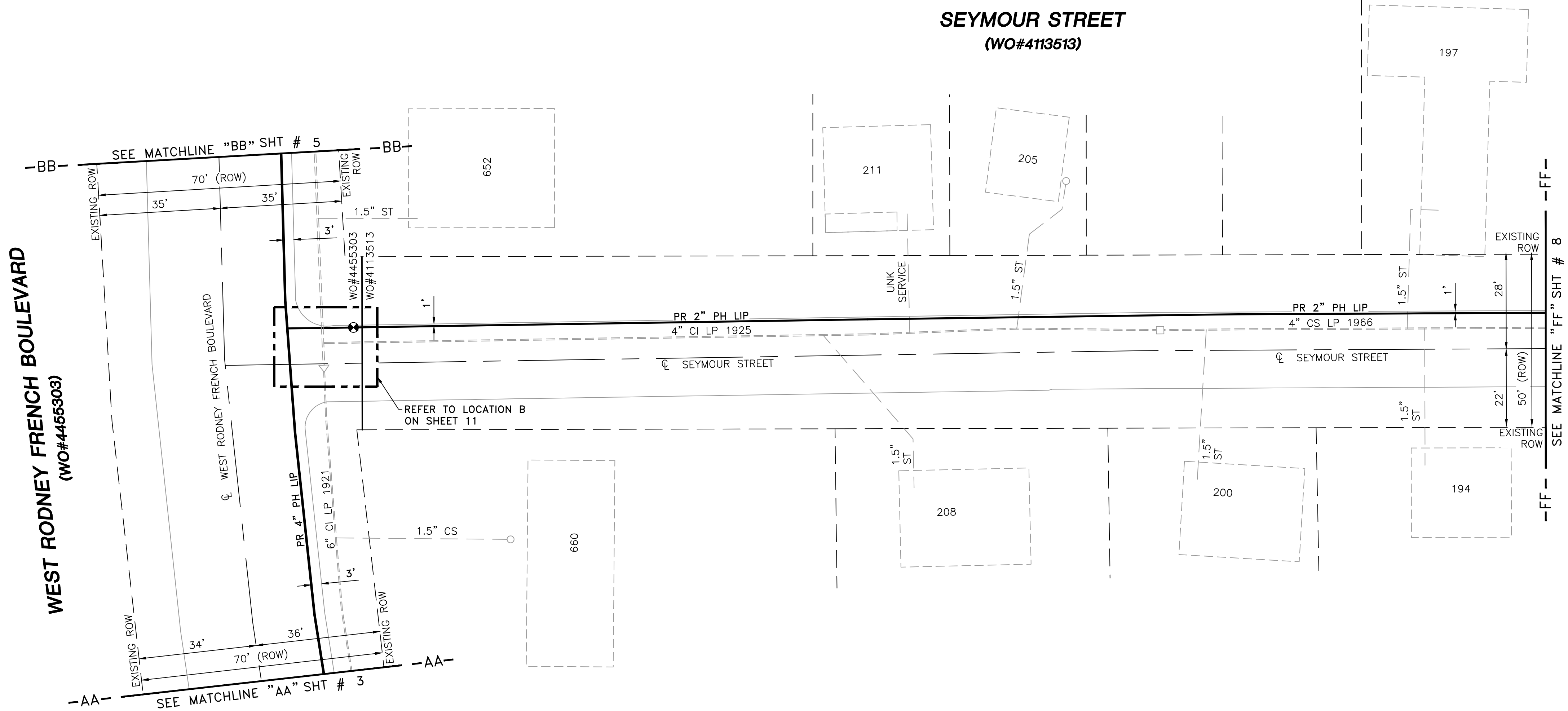
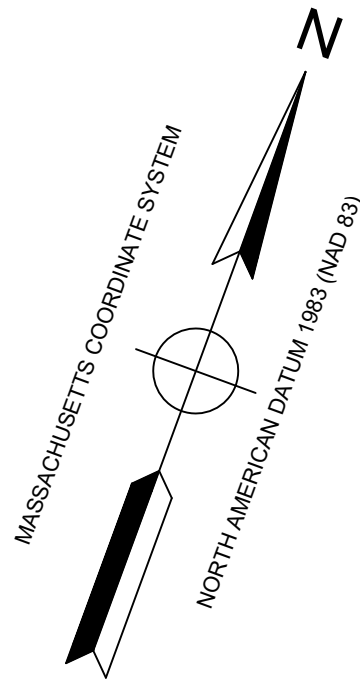
| | | | |
|--|-------------------|--|-------------------|
| | UTILITY POLE | | EXISTING GAS MAIN |
| | LIGHT POLE | | RETIRED GAS MAIN |
| | CATCH BASIN | | PROPOSED GAS MAIN |
| | FIRE HYDRANT | | EXISTING SERVICE |
| | UTILITY MANHOLE | | RIGHT OF WAY |
| | ELECTRIC MANHOLE | | ELECTRIC |
| | TELEPHONE 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 ANODE |

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| 0 | ISSUED FOR CONSTRUCTION | 09/14/2021 | ZS/AB/EK |
| NO. | DESCRIPTION | DATE | DW/CK/AP |

REVISION STATUS

EVERSOURCE
ENERGY

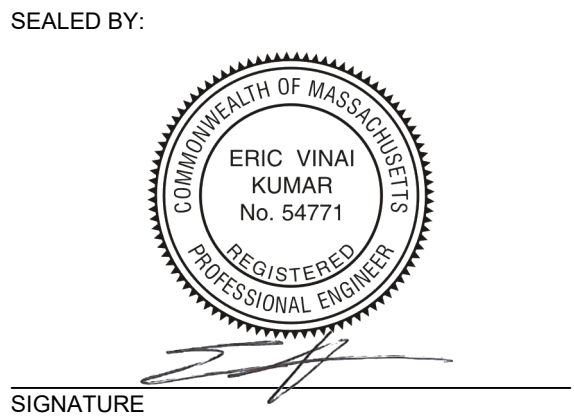
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|--|------------------------------------|--------------------------------------|---------------|
| HUDSON STREET, SEYMOUR STREET, AND BAYVIEW STREET MAIN RELAYS NEW BEDFORD, MASSACHUSETTS INSTALLATION PLAN | | | |
| SCALE: 1"=20' (DO NOT SCALE FROM DRAWINGS) | | SHEET 3 OF 19 | |
| DRAWN BY / DATE WS 04/01/2021 | CHECKED BY / DATE AB 09/14/2021 | SHEET NUMBER MA-NEB-21-PIP-063-03 | REV. NO. 0 |
| APPROVED BY / DATE EK 09/14/2021 | MANEB21PIP063R0 | | |



- 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 |
|--------|------|----------|-------------|
| 360' | 2" | PH | INSTALL |
| 155' | 4" | PH | INSTALL |
| 245' | 4" | CI | RETIRE |
| 110' | 4" | CS | RETIRE |
| 150' | 6" | CI | RETIRE |

ISSUED FOR
CONSTRUCTION
09/14/2021



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LICENSE EXPIRATION:

06/30/2022

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FIELD VERIFY DIMENSIONS
PRIOR TO PIPE FABRICATION



LOCUS PLAN
NOT TO SCALE

DRAWING LEGEND

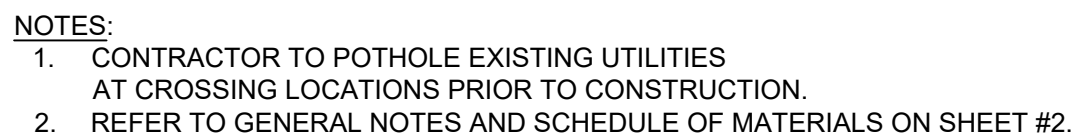
| | | | |
|--|-------------------|--|-------------------|
| | UTILITY POLE | | EXISTING GAS MAIN |
| | LIGHT POLE | | RETIRED GAS MAIN |
| | CATCH BASIN | | PROPOSED GAS MAIN |
| | FIRE HYDRANT | | EXISTING SERVICE |
| | UTILITY MANHOLE | | RIGHT OF WAY |
| | ELECTRIC MANHOLE | | ELECTRIC |
| | TELEPHONE 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 ANODE |

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| NO. | DESCRIPTION | DATE | DW/CK/AP |

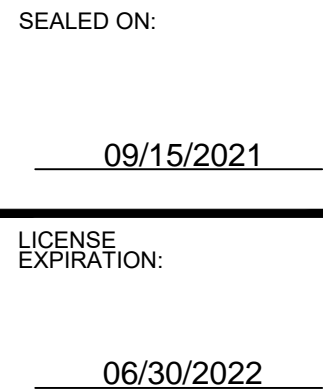
REVISION STATUS

EVERSOURCE
ENERGY

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|---|------------------------------------|--------------------------------------|---------------|
| HUDSON STREET, SEYMOUR STREET, AND BAYVIEW STREET MAIN RELAYS | | | |
| NEW BEDFORD, MASSACHUSETTS | | | |
| INSTALLATION PLAN | | | |
| SCALE: 1"=20' (DO NOT SCALE FROM DRAWINGS) | | | SHEET 4 OF 19 |
| DRAWN BY / DATE WS 04/01/2021 | CHECKED BY / DATE AB 09/14/2021 | SHEET NUMBER MA-NEB-21-PIP-063-04 | REV. NO. 0 |
| APPROVED BY / DATE EK 09/14/2021 | MANEB21PIP063R0 | | |



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09/14/2021



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The map shows a street grid in Weymouth, MA. A black-outlined polygon highlights a specific area. The streets shown include Broom St, Portland St, Hudson St, W. Rodney French Blvd, Seymour St, Bayview St, and Rodney French Blvd. A location pin marks 'BOUTIN SEAL & WASH'. Other landmarks include 'Me & Ed's Takeout' and the 'Massachusetts Division of Marine Fisheries'. The 'School for Marine Science and Technology' is also labeled at the bottom.



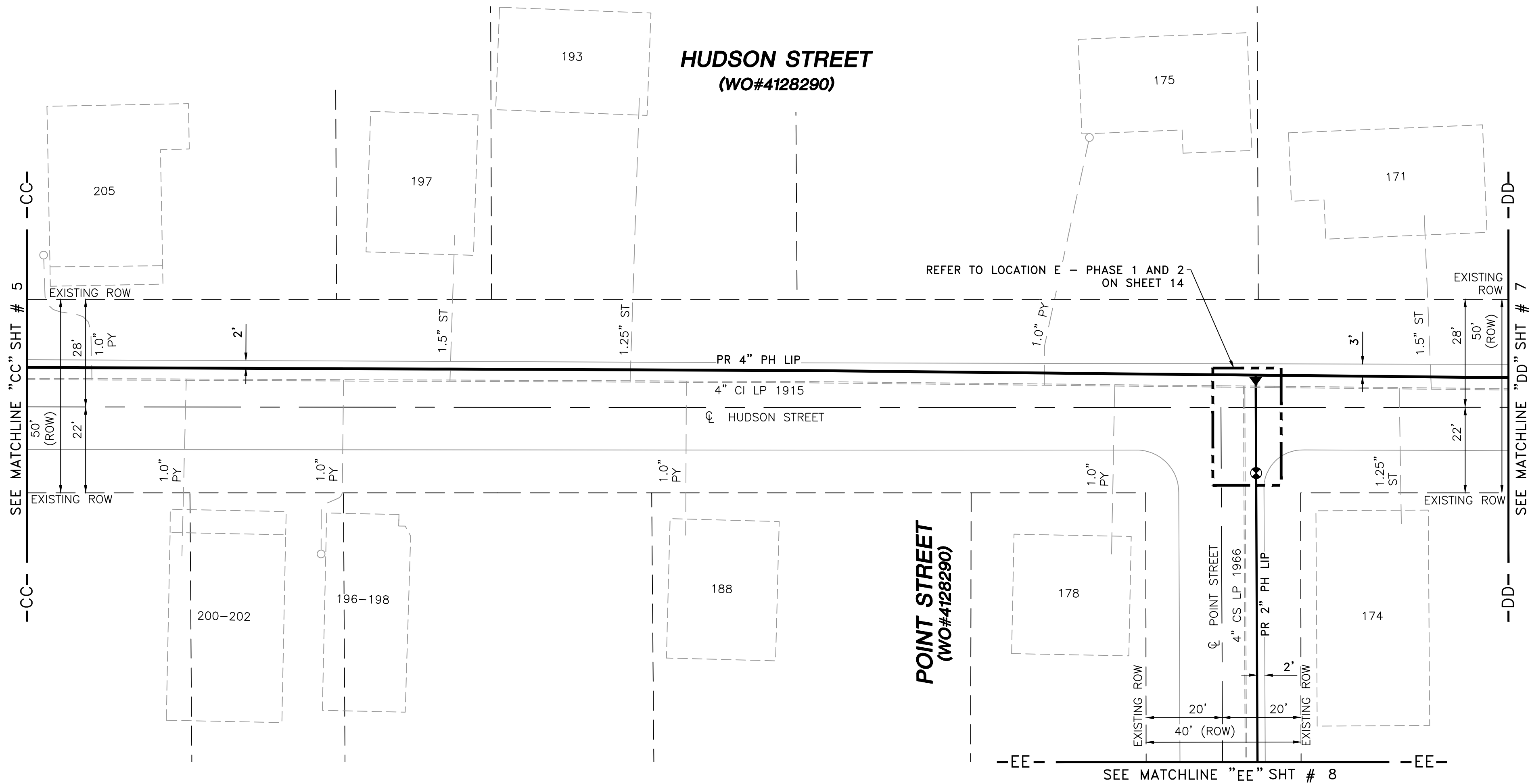
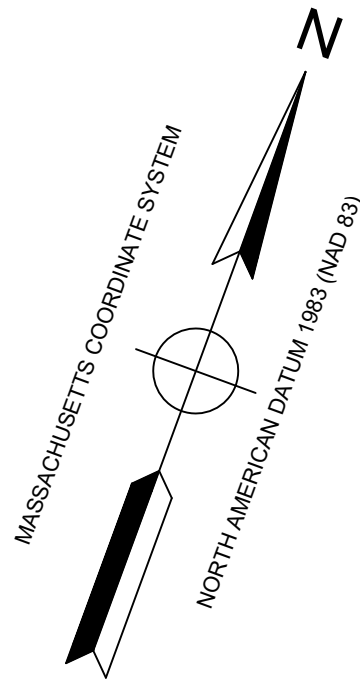
DRAWING LEGEND

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| 0 | ISSUED FOR CONSTRUCTION | 09/14/2021 | ZS/AB/EK |
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HUDSON STREET, SEYMOUR STREET, AND BAYVIEW STREET MAIN RELAYS

| |
|----------------------------|
| NEW BEDFORD, MASSACHUSETTS |
| INSTALLATION PLAN |

| | | | |
|--|------------------------------------|----------------------|----------|
| SCALE: 1"=20' (DO NOT SCALE FROM DRAWINGS) | | SHEET 5 OF 19 | |
| DRAWN BY / DATE WS 04/01/2021 | CHECKED BY / DATE AB 09/14/2021 | SHEET NUMBER | REV. NO. |
| APPROVED BY / DATE EK 09/14/2021 | MANEB21PIP063R0 | MA-NEB-21-PIP-063-05 | 0 |



- 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 |
|--------|------|----------|-------------|
| 100' | 2" | PH | INSTALL |
| 385' | 4" | PH | INSTALL |
| 385' | 4" | CI | RETIRE |
| 100' | 4" | CS | RETIRE |

ISSUED FOR
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09/14/2021

SEALED BY:



SIGNATURE

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FIELD VERIFY DIMENSIONS
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LOCUS PLAN
NOT TO SCALE

DRAWING LEGEND

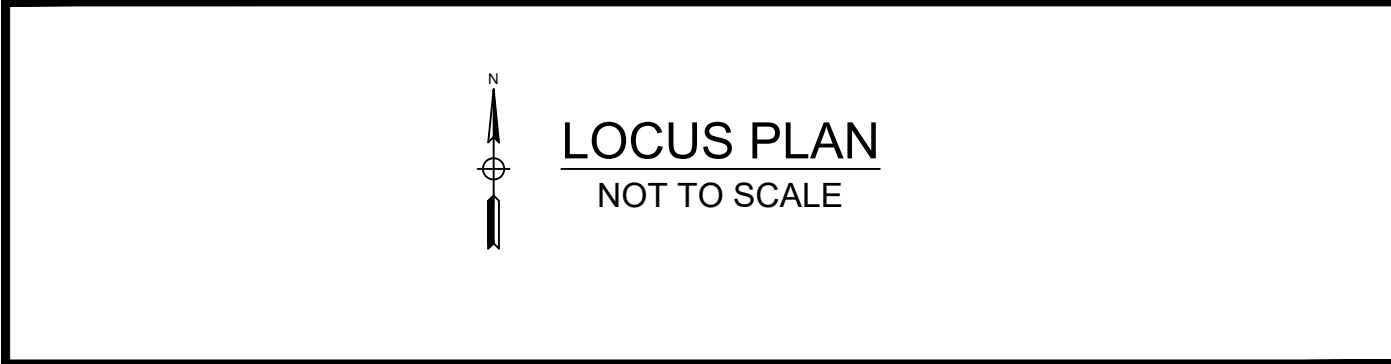
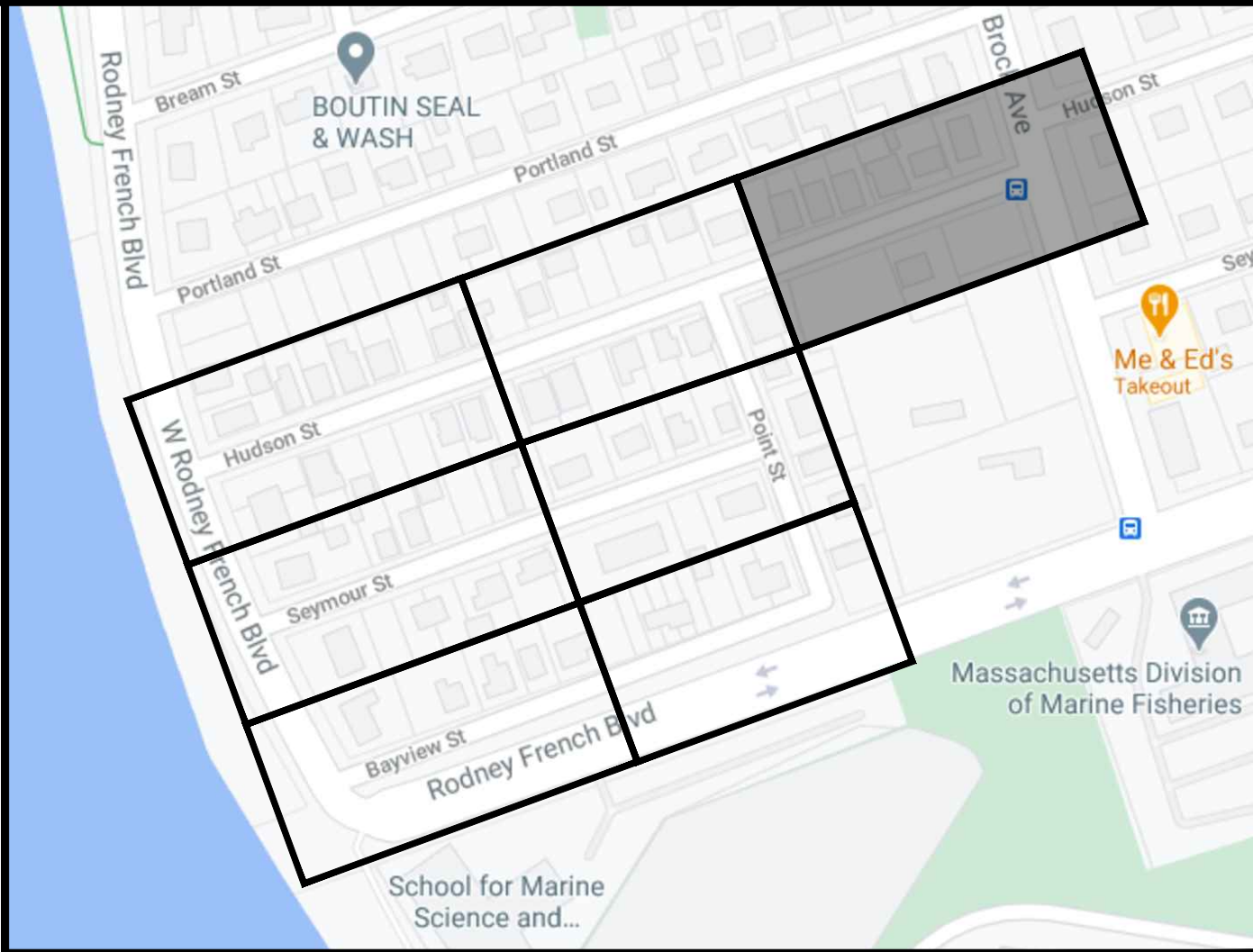
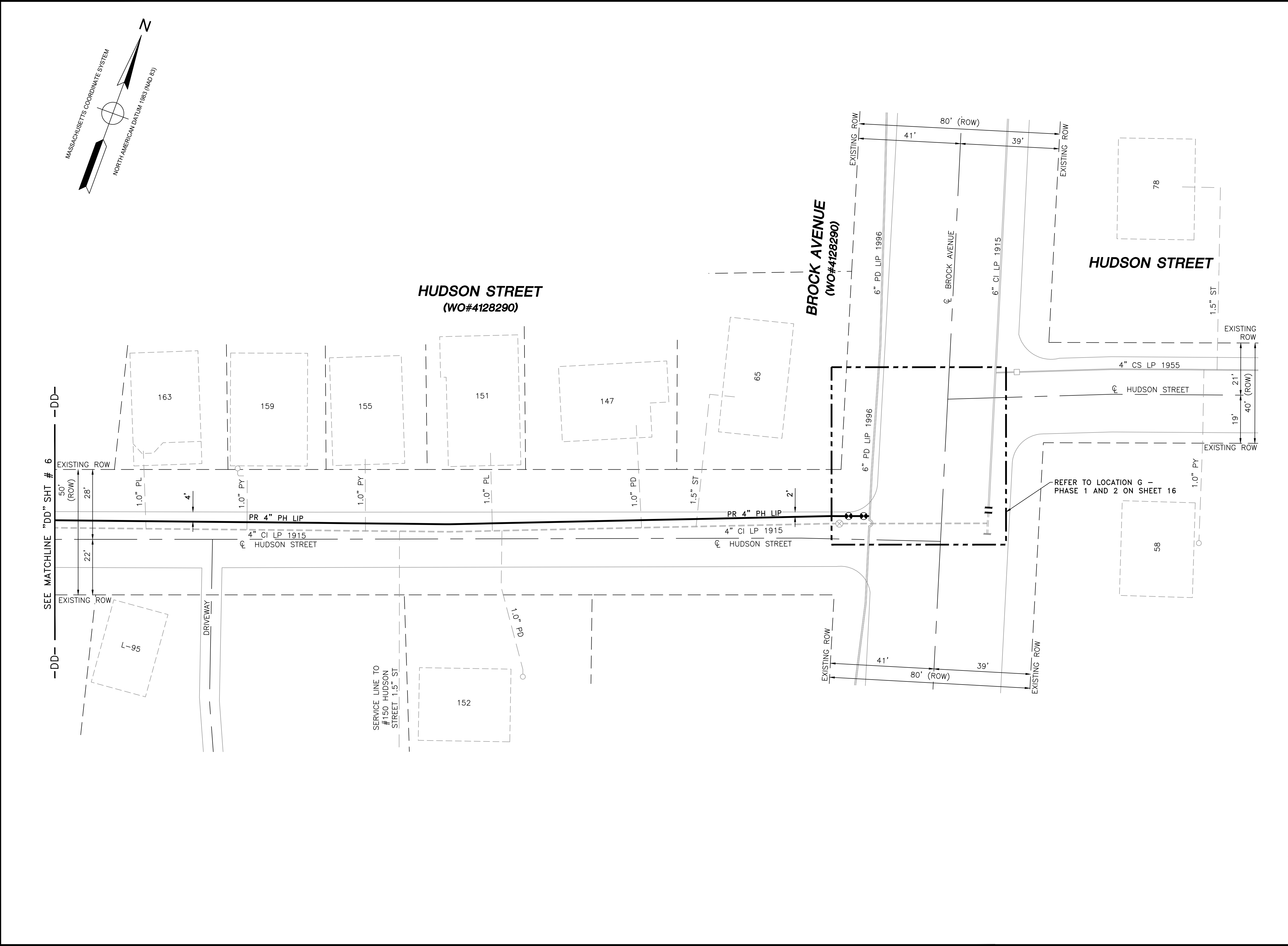
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|--|-------------------|--|-------------------|
| | UTILITY POLE | | EXISTING GAS MAIN |
| | LIGHT POLE | | RETIRED GAS MAIN |
| | CATCH BASIN | | PROPOSED GAS MAIN |
| | FIRE HYDRANT | | EXISTING SERVICE |
| | UTILITY MANHOLE | | RIGHT OF WAY |
| | 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 |

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REVISION STATUS

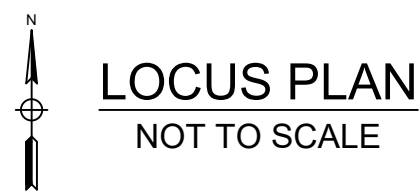
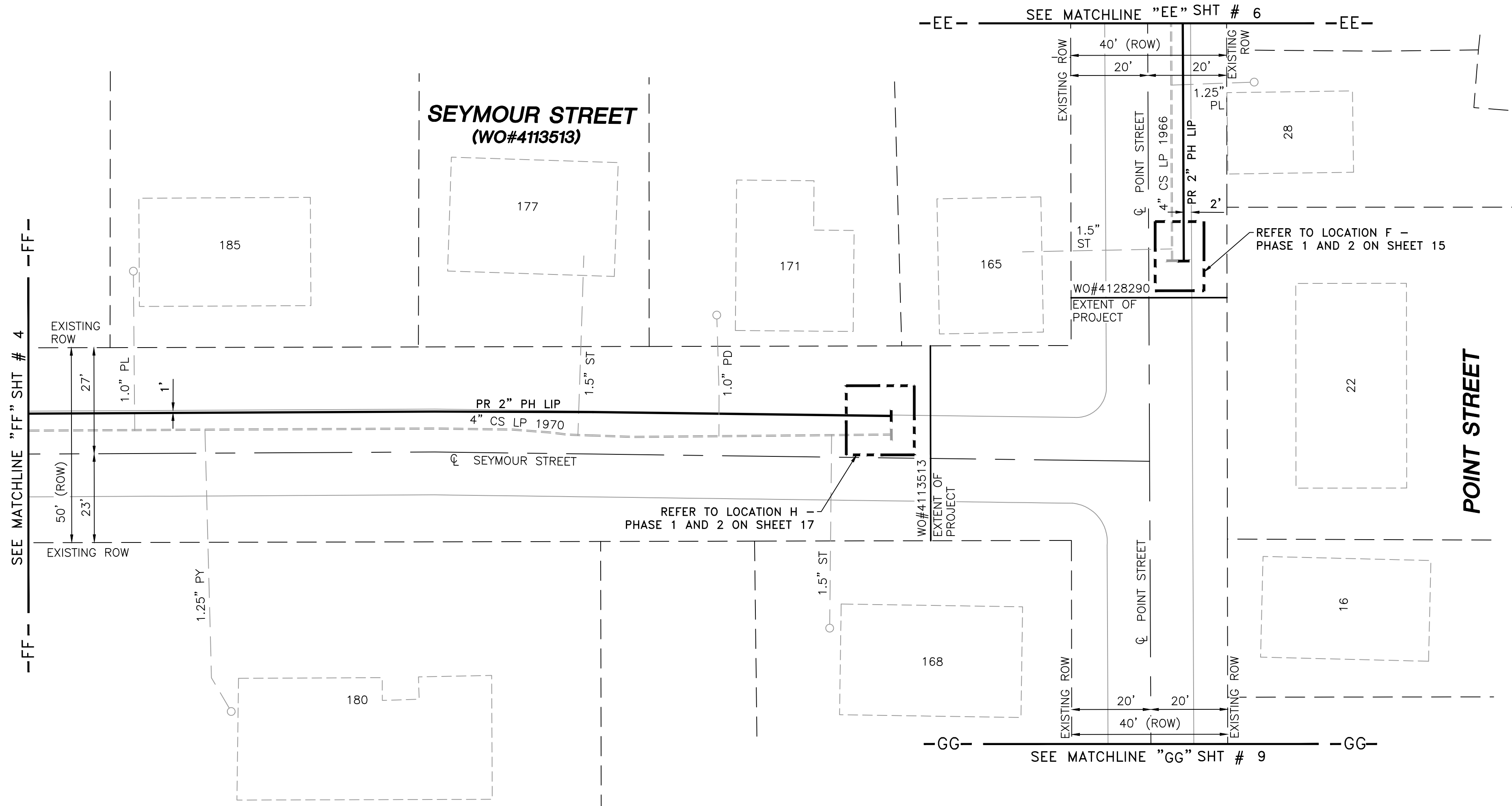
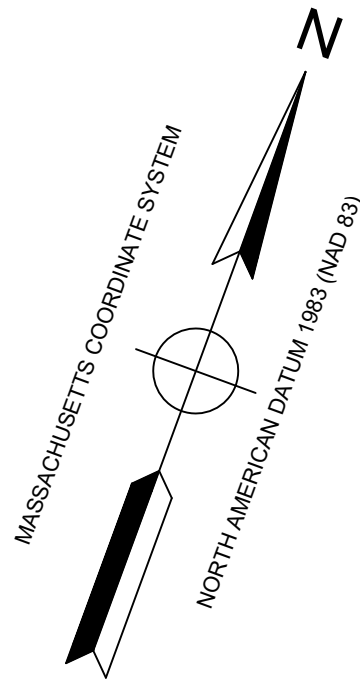
EVERSOURCE
ENERGY

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|---|------------------------------------|--------------------------------------|---------------|
| HUDSON STREET, SEYMOUR STREET, AND BAYVIEW STREET MAIN RELAYS | | | |
| NEW BEDFORD, MASSACHUSETTS | | | |
| INSTALLATION PLAN | | | |
| SCALE: 1"=20' (DO NOT SCALE FROM DRAWINGS) | | SHEET 6 OF 19 | |
| DRAWN BY / DATE WS 04/01/2021 | CHECKED BY / DATE AB 09/14/2021 | SHEET NUMBER MA-NEB-21-PIP-063-06 | REV. NO. 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 |

| | | | | | | | | | | | | | | | |
|---|--|--|--|--|--|----------------|---------------|--------------------------|-----------------------------------|---|---|--|--|--|--|
| 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 09/14/2021 | | SEALED BY: | SIGNATURE | SEALED ON: 09/15/2021 | LICENSE EXPIRATION: 06/30/2022 | 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 29 BARTLETT STREET MARLBOROUGH, MA 01752 TEL (630) 353-4000 FAX (630) 353-7777 WWW.ENENGINEERING.COM | FIELD VERIFY DIMENSIONS PRIOR TO PIPE FABRICATION | EVERSOURCE ENERGY HUDSON STREET, SEYMOUR STREET, AND BAYVIEW STREET MAIN RELAYS NEW BEDFORD, MASSACHUSETTS INSTALLATION PLAN SCALE: 1"=20' (DO NOT SCALE FROM DRAWINGS) SHEET 8 OF 19 DRAWN BY / DATE: WS 04/01/2021 CHECKED BY / DATE: AB 09/14/2021 APPROVED BY / DATE: EK 09/14/2021 SHEET NUMBER: MA-NEB-21-PIP-063-08 REV. NO.: 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 |

- 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 |
|--------|------|----------|-------------|
| 290' | 2" | PH | INSTALL |
| 290' | 4" | CS | RETIRE |

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CONSTRUCTION
09/14/2021

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SIGNATURE

SEALED ON:

09/15/2021

LICENSE EXPIRATION:

06/30/2022

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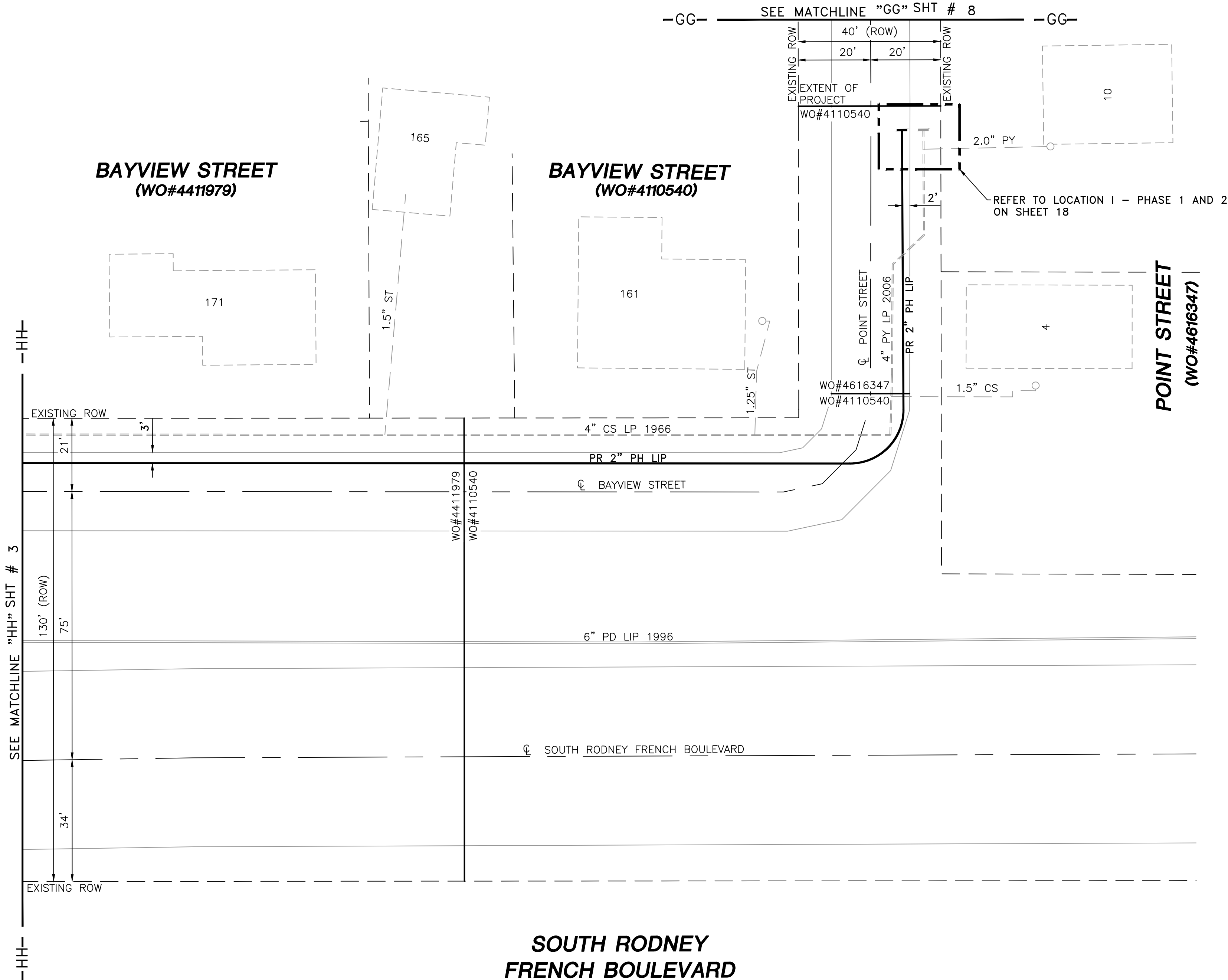
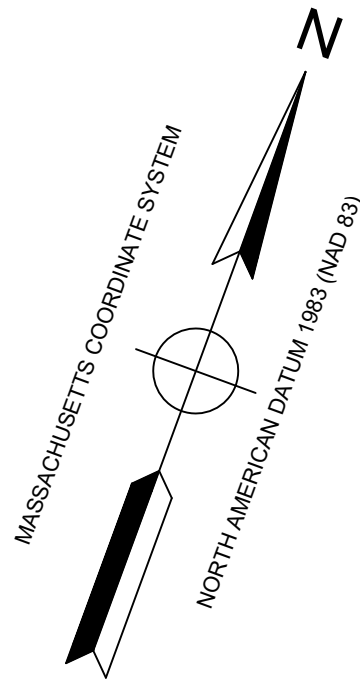
FIELD VERIFY DIMENSIONS
PRIOR TO PIPE FABRICATION

| | | | |
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| 0 | ISSUED FOR CONSTRUCTION | 09/14/2021 | ZS/AB/EK |
| NO. | DESCRIPTION | DATE | DW/CK/AP |

REVISION STATUS

EVERSOURCE
ENERGY

| | | | |
|--|------------------------------------|--------------------------------------|---------------|
| HUDSON STREET, SEYMOUR STREET, AND BAYVIEW STREET MAIN RELAYS NEW BEDFORD, MASSACHUSETTS INSTALLATION PLAN | | | |
| SCALE: 1"=20' (DO NOT SCALE FROM DRAWINGS) | | SHEET 8 OF 19 | |
| DRAWN BY / DATE WS 04/01/2021 | CHECKED BY / DATE AB 09/14/2021 | SHEET NUMBER MA-NEB-21-PIP-063-08 | REV. NO. 0 |
| APPROVED BY / DATE EK 09/14/2021 | | MANEB21PIP063R0 | |



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 ANODE |

- 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 |
|--------|------|----------|-------------|
| 340' | 2" | PH | INSTALL |
| 245' | 4" | CS | RETIRE |
| 90' | 4" | PY | RETIRE |

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SEALED ON:

09/15/2021

LICENSE
EXPIRATION:

06/30/2022

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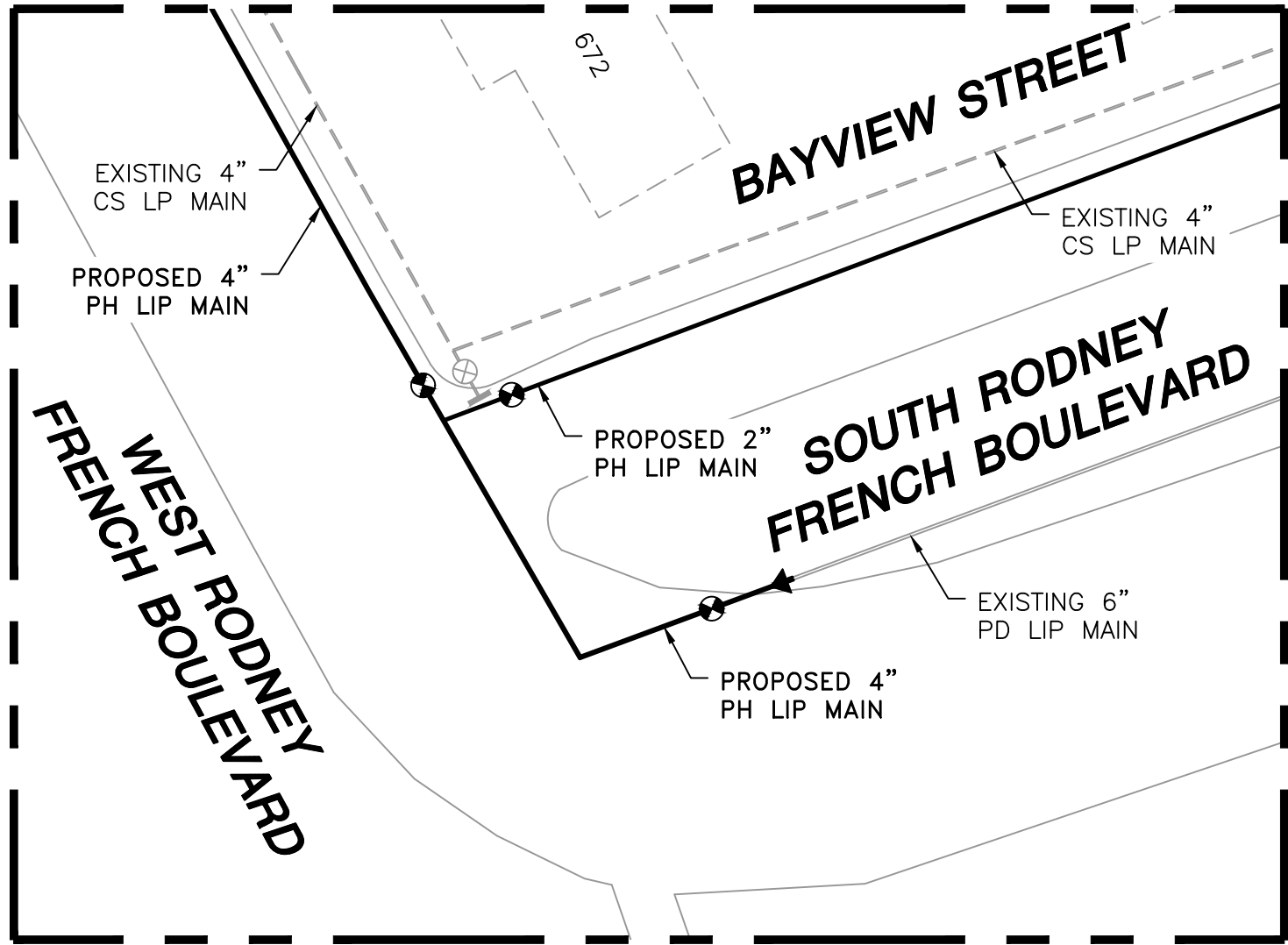
FIELD VERIFY DIMENSIONS
PRIOR TO PIPE FABRICATION

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| 0 | ISSUED FOR CONSTRUCTION | 09/14/2021 | ZS/AB/EK |
| NO. | DESCRIPTION | DATE | DW/CK/AP |

REVISION STATUS

EVERSOURCE
ENERGY

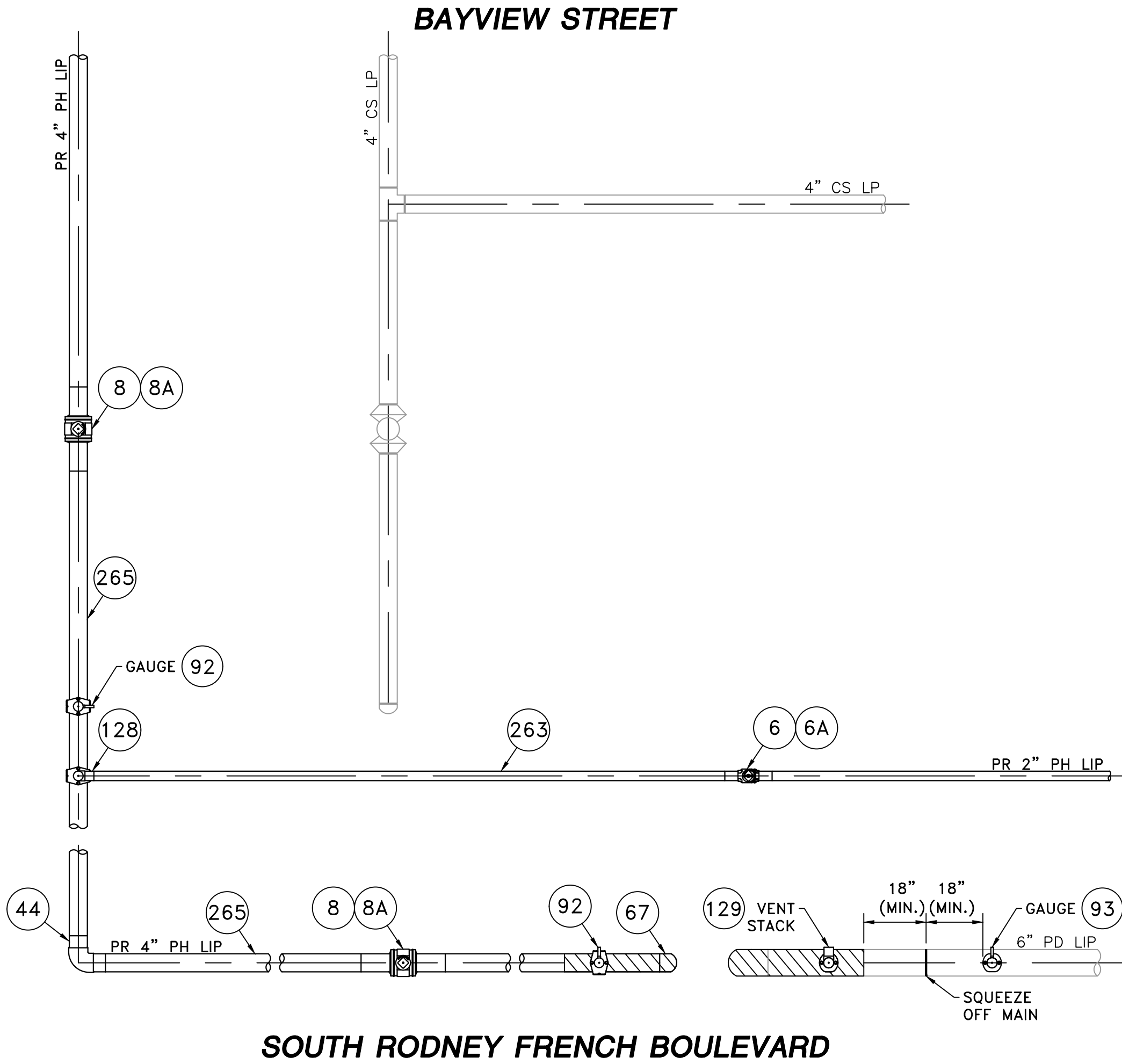
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|---|------------------------------------|--------------------------------------|---------------|
| HUDSON STREET, SEYMOUR STREET, AND BAYVIEW STREET MAIN RELAYS | | | |
| NEW BEDFORD, MASSACHUSETTS | | | |
| INSTALLATION PLAN | | | |
| SCALE: 1"=20' (DO NOT SCALE FROM DRAWINGS) | | | SHEET 9 OF 19 |
| DRAWN BY / DATE WS 04/01/2021 | CHECKED BY / DATE AB 09/14/2021 | SHEET NUMBER MA-NEB-21-PIP-063-09 | REV. NO. 0 |
| APPROVED BY / DATE EK 09/14/2021 | MANEB21PIP063R0 | | |



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

| HUDSON STREET MAIN RELAY - LOCATION A - SCHEDULE OF MATERIALS | | | | | |
|---|-------------|---------|------------|---|------------|
| ITEM | QTY | SIZE | MAXIMO NO. | DESCRIPTION | MATERIAL |
| 6 | 1 | 2" | 562087 | VALVE,BALL, 2 IN IPS, POLYETHYLENE, SDR 11, BUTT WELD, W/ FULL PORT OPENING | ASTM D2513 |
| 6A | 1 | 2" | | BOX, VALVE, PLASTIC, SNAP-ON, ADJ, W/CI NON-LOCKING LID | PLASTIC |
| 8 | 2 | 4" | 501002 | VALVE,BALL, 4 IN, POLYETHYLENE, SDR 11, BUTT WELD, W/ FULL PORT OPENING, TO BE USED W/ BRAND SADDLE INST, P100 | ASTM D2513 |
| 8A | 2 | 4" | | BOX, VALVE, PLASTIC, SNAP-ON, ADJ, W/CI NON-LOCKING LID | PLASTIC |
| 35 | AS REQUIRED | 4" | 500855 | COUPLING,PIPE, 4 IN IPS, ELECTROFUSION, PLASTIC, P100 | ASTM D3350 |
| 36 | AS REQUIRED | 6" | 500856 | COUPLING,PIPE, 6 IN IPS, ELECTROFUSION, PLASTIC, P100 | ASTM D3350 |
| 44 | AS REQUIRED | 4" | 545341 | ELBOW,PIPE, 90 DEG, 4 IN SDR 11, BUTT WELD ENDS, PLASTIC, P100 | ASTM D2513 |
| 57 | 1 | 6" X 4" | 555594 | REDUCER, BUTT FUSION, IPS, HDPE 4710, SDR 11, ASTM D2513, ASTM D3350, ASTM D3261. PERFORMANCE PIPE OR APPROVED EQUAL. | ASTM D2513 |
| 67 | AS REQUIRED | 4" | 542538 | CAP,PIPE, 4 IN IPS SDR 11, BUTT END, POLYETHYLENE, P100 | ASTM D2513 |
| 68 | AS REQUIRED | 6" | 542539 | CAP,PIPE, 6 IN IPS SDR 11, BUTT END, POLYETHYLENE, P100 | ASTM D2513 |

WEST RODNEY FRENCH BOULEVARD

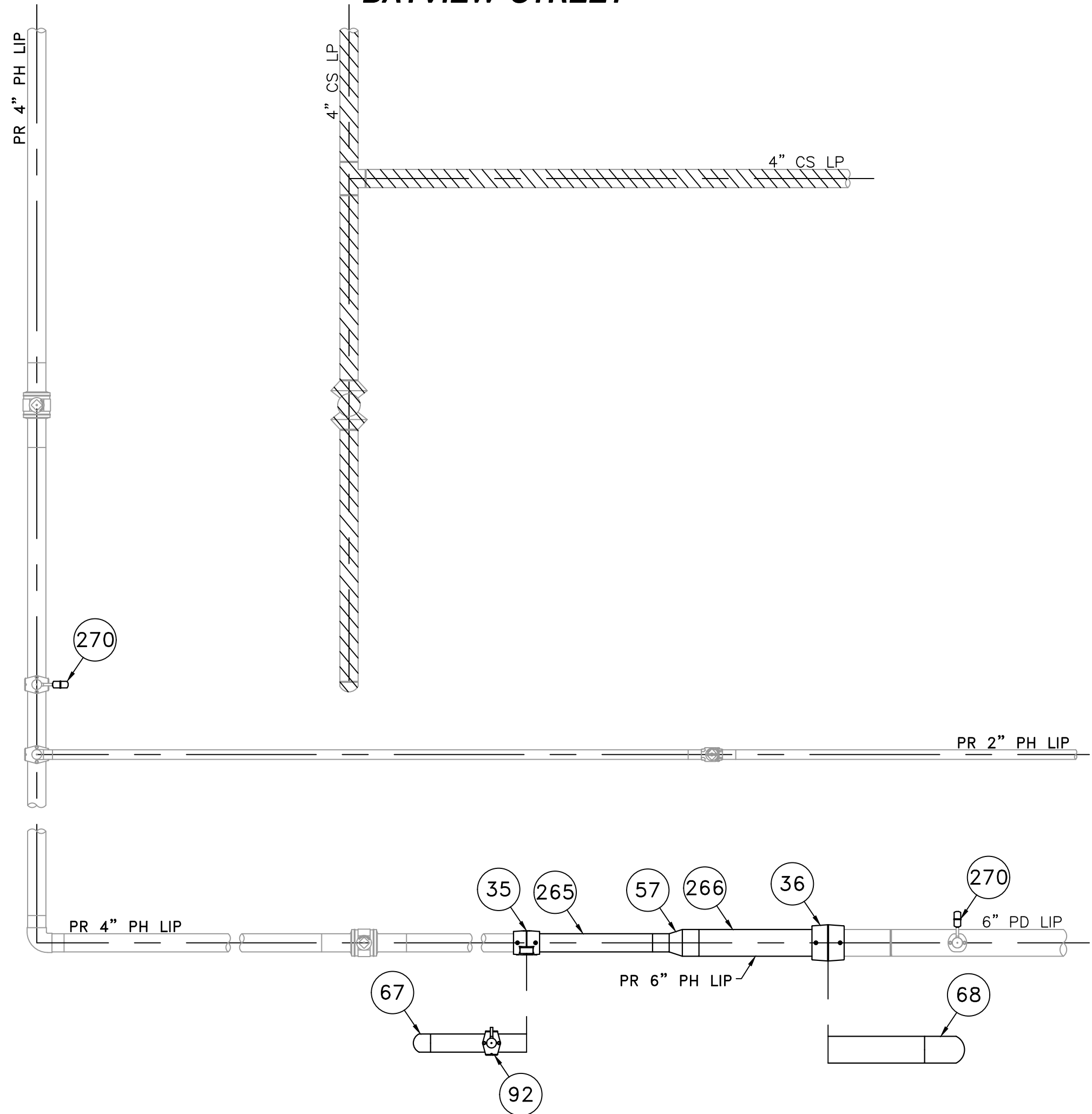


LOCATION A - PHASE 1
(SCALE: 1"=2')
(REFER TO SHEET #3)
(DO NOT SCALE FROM DRAWINGS)

WEST RODNEY FRENCH BOULEVARD

| | | | | | |
|-----|-------------|-----------|--------|--|--------------|
| 92 | 3 | 4" X 1/2" | 500867 | TEE,PIPE, NON-BLOWING, 4 X 1/2 IN CTS X 0.090 IN THK WALL SDR 7, ELECTROFUSION X COMPRESSION ENDS, LIGHT WALL, POLYETHYLENE, PE3408/PE100, 1 | PE3408 |
| 93 | 1 | 6" X 1/2" | 500869 | TEE,PIPE, NON-BLOWING, 6 X 1/2 IN CTS X 0.090 IN THK WALL SDR 7, ELECTROFUSION X COMPRESSION ENDS, LIGHT WALL, POLYETHYLENE, PE3408/PE100 | |
| 128 | 1 | 4" X 2" | 584304 | FITTING,TEE, 4 IN IPS X 2 IN IPS, ELECTROFUSION HIGH VOLUME TAPPING WITH BUTT FUSION OUTLET, HDPE, BLACK, WAS ITEM 577621 | HDPE |
| 129 | 1 | 6" X 2" | 500870 | TEE,PIPE, 6 X 2 IN IPS , ELECTROFUSION, PLASTIC, P100, W/ 1.8 IN PERF, 5/BOX | PLASTIC P100 |
| 263 | 20' | 2" | 554025 | PIPE, 2 IN IPS X 0.216 IN THK WALL SDR 11, 2.375 IN OD, 350 FT LG COIL, POLYETHYLENE, PE3408/PE100 | PE3408/PE100 |
| 265 | 35' | 4" | 554008 | PIPE, 4 IN IPS X 0.409 IN THK WALL SDR 11, 4.5 IN OD, 40 FT LG, POLYETHYLENE, PE3408/PE100, 1200 FT/BUNDLE | PE3408/PE100 |
| 266 | 5' | 6" | 554009 | PIPE, 6 IN IPS X 0.602 IN THK WALL SDR 11, 6.625 IN OD, 40 FT LG, POLYETHYLENE, PE3408/PE100 | PE3408/PE100 |
| 270 | AS REQUIRED | 1/2" | 579972 | FITTING,CAP, METFIT, 1/2 IN CTS X 0.90 IN THK WALL SDR 7, REPLACED IN 542609 | |

BAYVIEW STREET



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

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

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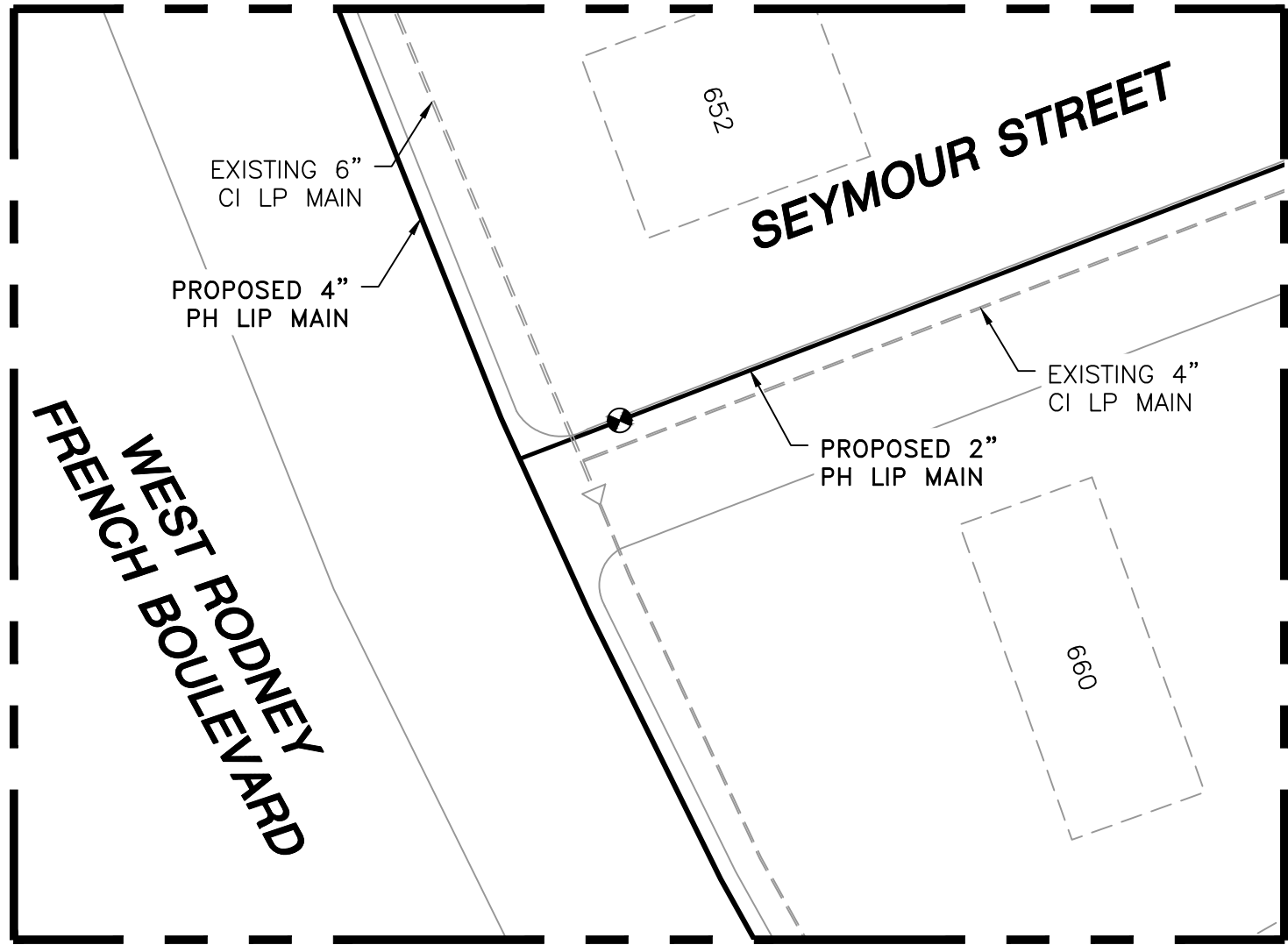
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06/30/2022

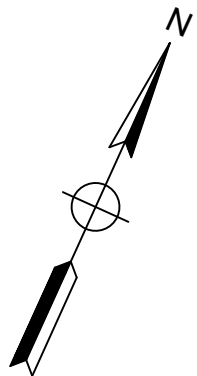
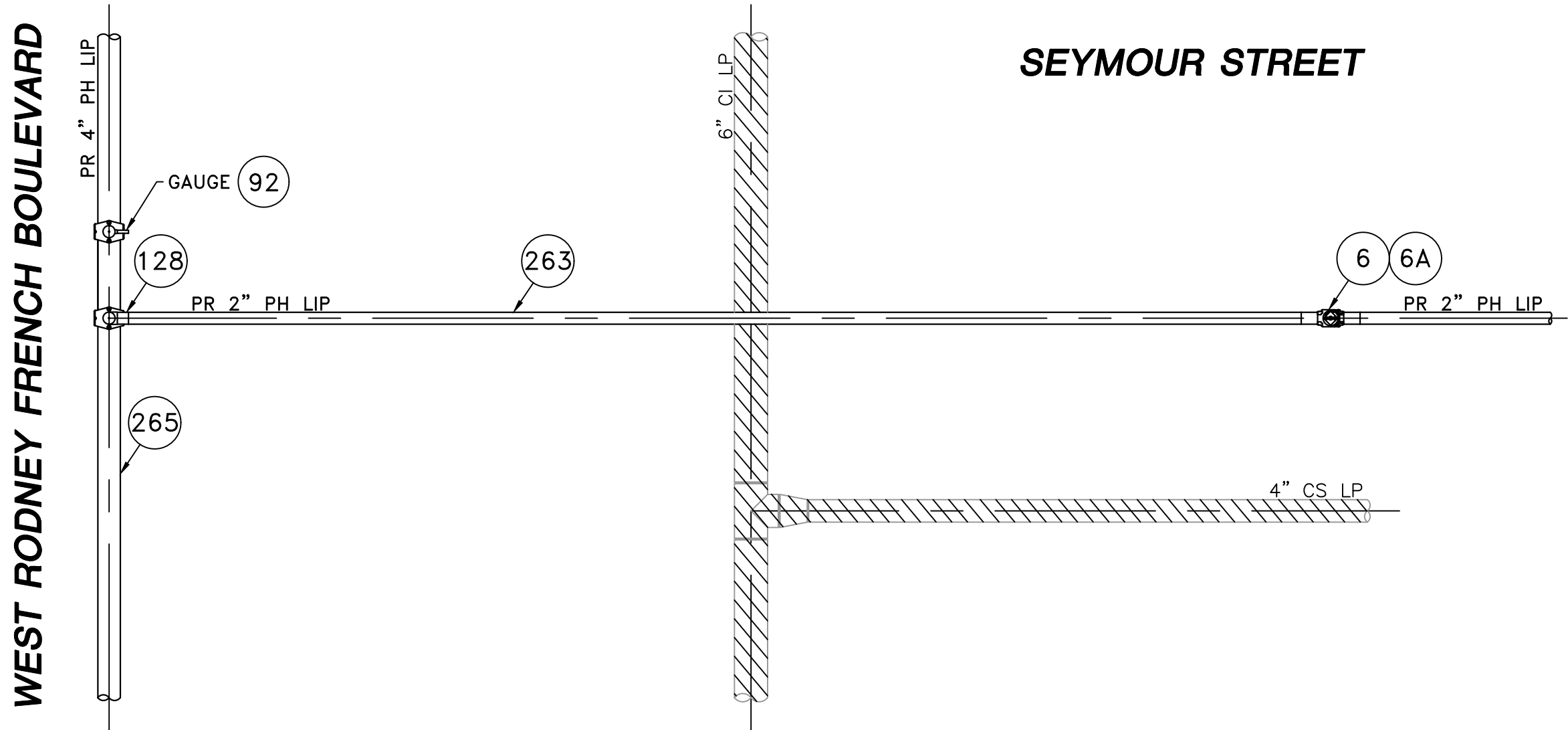
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|---|------------------------------------|--------------------------------------|---------------|
| NO. | DESCRIPTION | DATE | DW/CK/AP |
| REVISION STATUS | | | |
| EVERSOURCE ENERGY | | | |
| HUDSON STREET, SEYMOUR STREET, AND BAYVIEW STREET MAIN RELAYS | | | |
| NEW BEDFORD, MASSACHUSETTS | | | |
| LOCATION A - PHASE 1, 2 AND SCHEDULE OF MATERIALS | | | |
| SCALE: AS NOTED | | SHEET 10 OF 19 | |
| DRAWN BY / DATE WS 04/01/2021 | CHECKED BY / DATE AB 09/14/2021 | SHEET NUMBER MA-NEB-21-PIP-063-10 | REV. NO. 0 |
| APPROVED BY / DATE EK 09/14/2021 | MANEB21PIP063R0 | | |



LOCATION B - PLAN VIEW
(SCALE: 1"=30')
(REFER TO SHEET #4)
(DO NOT SCALE FROM DRAWINGS)



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

| HUDSON STREET MAIN RELAY - LOCATION B - SCHEDULE OF MATERIALS | | | | | |
|---|-----|-----------|------------|--|--------------|
| ITEM | QTY | SIZE | MAXIMO NO. | DESCRIPTION | MATERIAL |
| 6 | 1 | 2" | 562087 | VALVE,BALL, 2 IN IPS, POLYETHYLENE, SDR 11, BUTT WELD, W/ FULL PORT OPENING | ASTM D2513 |
| 6A | 1 | 2" | | BOX, VALVE, PLASTIC, SNAP-ON, ADJ, W/CI NON-LOCKING LID | PLASTIC |
| 92 | 1 | 4" X 1/2" | 500867 | TEE,PIPE, NON-BLOWING, 4 X 1/2 IN CTS X 0.090 IN THK WALL SDR 7, ELECTROFUSION X COMPRESSION ENDS, LIGHT WALL, POLYETHYLENE, PE3408/PE100, 1 | PE3408 |
| 128 | 1 | 4" X 2" | 584304 | FITTING,TEE, 4 IN IPS X 2 IN IPS, ELECTROFUSION HIGH VOLUME TAPPING WITH BUTT FUSION OUTLET, HDPE, BLACK, WAS ITEM 577621 | HDPE |
| 263 | 25' | 2" | 554025 | PIPE, 2 IN IPS X 0.216 IN THK WALL SDR 11, 2.375 IN OD, 350 FT LG COIL, POLYETHYLENE, PE3408/PE100 | PE3408/PE100 |
| 265 | 15' | 4" | 554008 | PIPE, 4 IN IPS X 0.409 IN THK WALL SDR 11, 4.5 IN OD, 40 FT LG, POLYETHYLENE, PE3408/PE100, 1200 FT/BUNDLE | PE3408/PE100 |

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

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| NO. | DESCRIPTION | DATE | DW/CK/AP |
| REVISION STATUS | | | |
| EVERSOURCE ENERGY | | | |
| HUDSON STREET, SEYMOUR STREET, AND BAYVIEW STREET MAIN RELAYS | | | |
| NEW BEDFORD, MASSACHUSETTS | | | |
| LOCATION B AND SCHEDULE OF MATERIALS | | | |
| SCALE: AS NOTED | | SHEET 11 OF 19 | |
| DRAWN BY / DATE WS 04/01/2021 | CHECKED BY / DATE AB 09/14/2021 | SHEET NUMBER | REV. NO. |
| APPROVED BY / DATE EK 09/14/2021 | MANEB21PIP063R0 | MA-NEB-21-PIP-063-11 | 0 |

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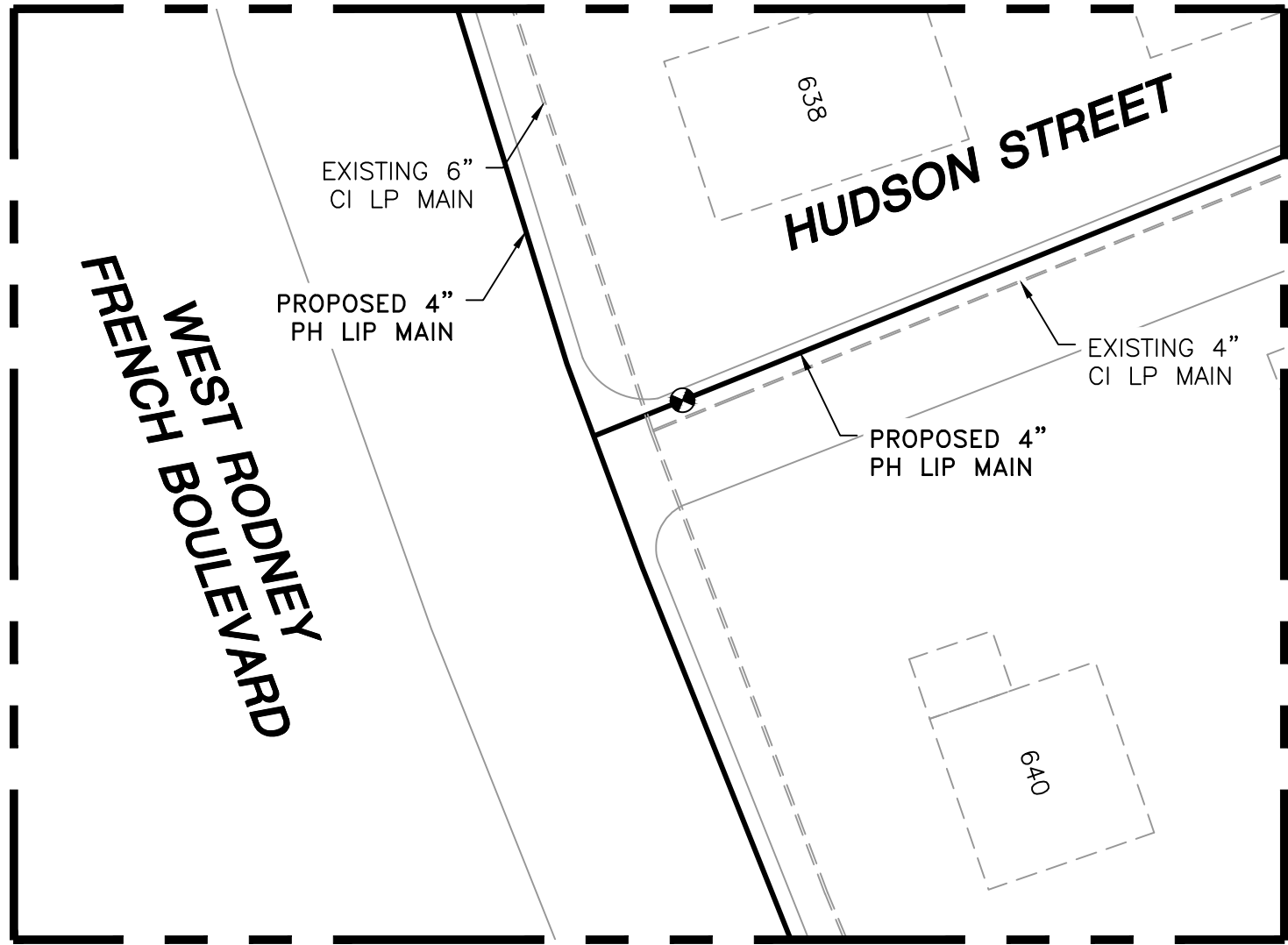
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TRANSMISSION AND DISTRIBUTION PIPING
SYSTEMS, LATEST EDITION.

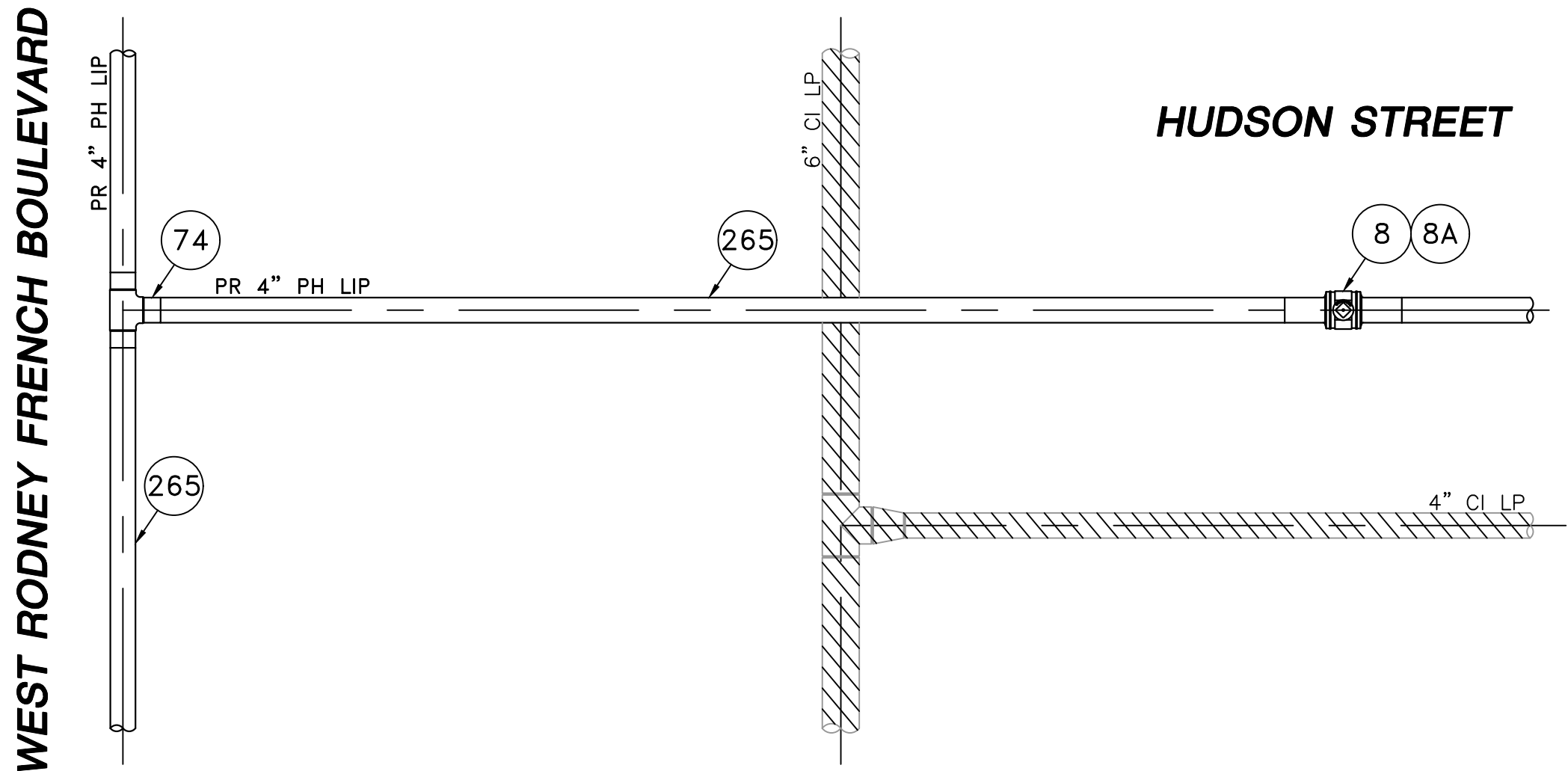
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FIELD VERIFY DIMENSIONS
PRIOR TO PIPE FABRICATION



LOCATION C - PLAN VIEW
(SCALE: 1"=30')
(REFER TO SHEET #5)
(DO NOT SCALE FROM DRAWINGS)



LOCATION C
(SCALE: 1"=2')
(REFER TO SHEET #5)
(DO NOT SCALE FROM DRAWINGS)

| HUDSON STREET MAIN RELAY - LOCATION C - SCHEDULE OF MATERIALS | | | | | |
|---|-----|------|------------|--|--------------|
| ITEM | QTY | SIZE | MAXIMO NO. | DESCRIPTION | MATERIAL |
| 8 | 1 | 4" | 501002 | VALVE,BALL, 4 IN, POLYETHYLENE, SDR 11, BUTT WELD, W/ FULL PORT OPENING, TO BE USED W/ BRAND SADDLE INST, P100 | ASTM D2513 |
| 8A | 1 | 4" | | BOX, VALVE, PLASTIC, SNAP-ON, ADJ, W/CI NON-LOCKING LID | PLASTIC |
| 74 | 1 | 4" | 560679 | TEE,PIPE, 4 IN SDR 11, BUTT ENDS, POLYETHYLENE, P100 | ASTM D2513 |
| 265 | 35' | 4" | 554008 | PIPE, 4 IN IPS X 0.409 IN THK WALL SDR 11, 4.5 IN OD, 40 FT LG, POLYETHYLENE, PE3408/PE100, 1200 FT/BUNDLE | PE3408/PE100 |

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

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| 0 | ISSUED FOR CONSTRUCTION | 09/14/2021 | ZS/AB/EK |
| NO. | DESCRIPTION | DATE | DW/CK/AP |
| REVISION STATUS | | | |
| EVERSOURCE ENERGY | | | |
| HUDSON STREET, SEYMOUR STREET, AND BAYVIEW STREET MAIN RELAYS | | | |
| NEW BEDFORD, MASSACHUSETTS | | | |
| LOCATION C AND SCHEDULE OF MATERIALS | | | |
| SCALE: AS NOTED | | SHEET 12 OF 19 | |
| DRAWN BY / DATE | CHECKED BY / DATE | SHEET NUMBER | REV. NO. |
| WS 04/01/2021 | AB 09/14/2021 | MA-NEB-21-PIP-063-12 | 0 |
| APPROVED BY / DATE | MANEB21PIP063R0 | | |
| EK 09/14/2021 | | | |

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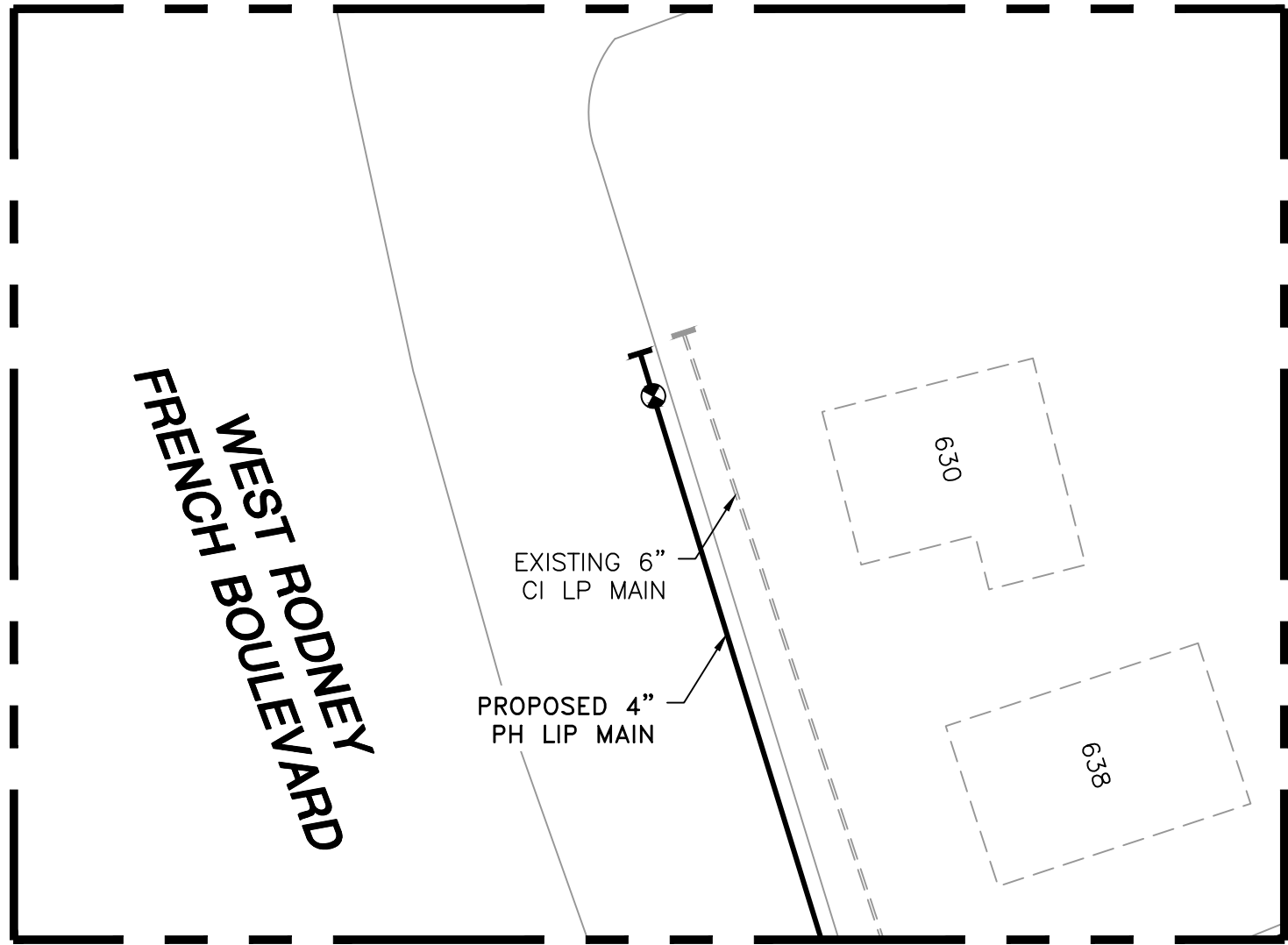
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SEALED ON:
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LICENSE EXPIRATION:
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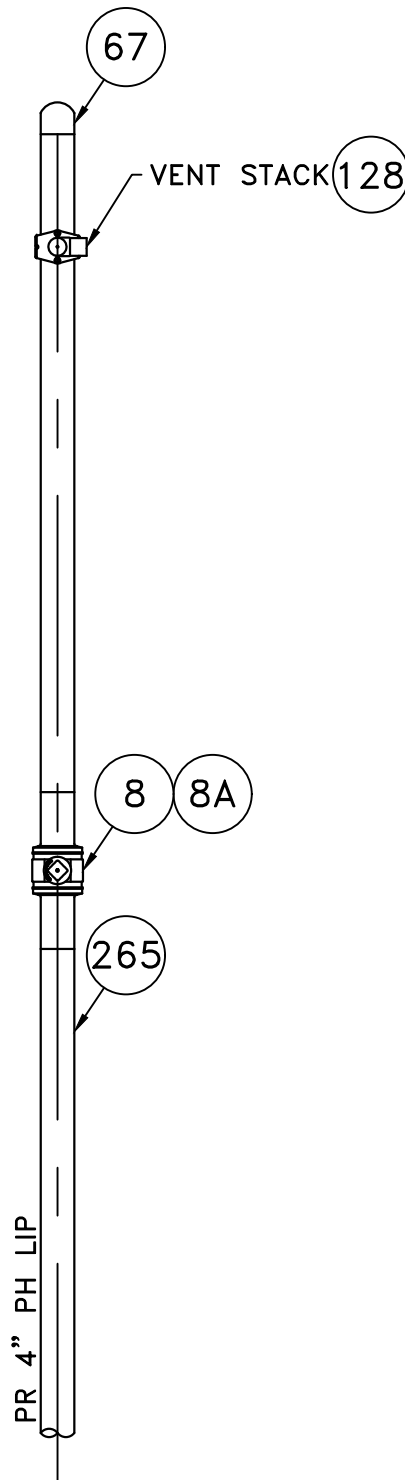
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FIELD VERIFY DIMENSIONS
PRIOR TO PIPE FABRICATION



LOCATION D - PLAN VIEW
(SCALE: 1"=30')
(REFER TO SHEET #5)
(DO NOT SCALE FROM DRAWINGS)

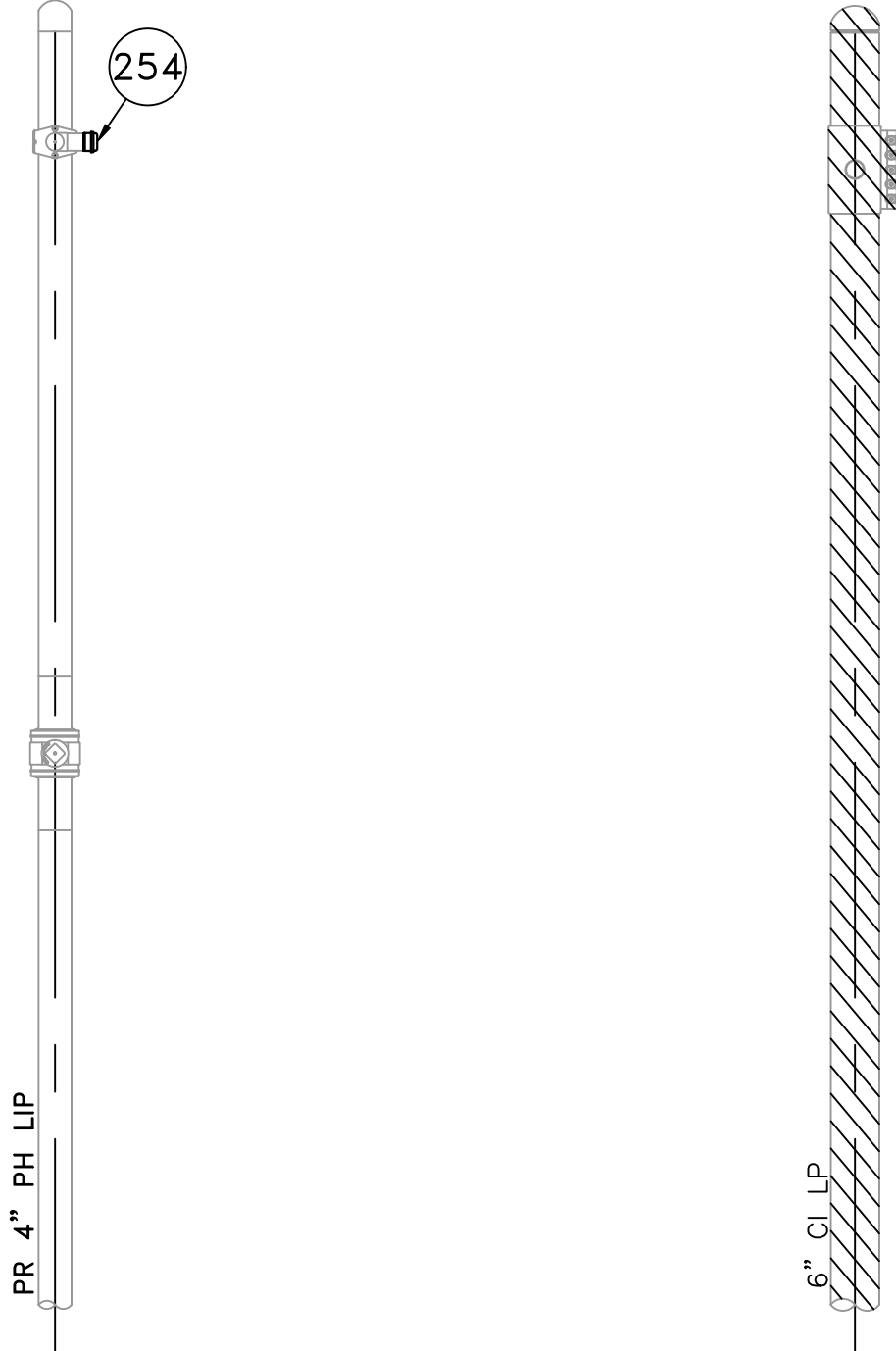
WEST RODNEY FRENCH BOULEVARD



LOCATION D - PHASE 1
(SCALE: 1"=2')
(REFER TO SHEET #5)
(DO NOT SCALE FROM DRAWINGS)



WEST RODNEY FRENCH BOULEVARD



LOCATION D - PHASE 2
(SCALE: 1"=2')
(REFER TO SHEET #5)
(DO NOT SCALE FROM DRAWINGS)

| HUDSON STREET MAIN RELAY - LOCATION D - SCHEDULE OF MATERIALS | | | | | |
|---|-------------|---------|------------|---|--------------|
| ITEM | QTY | SIZE | MAXIMO NO. | DESCRIPTION | MATERIAL |
| 8 | 1 | 4" | 501002 | VALVE,BALL, 4 IN, POLYETHYLENE, SDR 11, BUTT WELD, W/ FULL PORT OPENING, TO BE USED W/ BRAND SADDLE INST, P100 | ASTM D2513 |
| 8A | 1 | 4" | | BOX, VALVE, PLASTIC, SNAP-ON, ADJ, W/CI NON-LOCKING LID | PLASTIC |
| 67 | AS REQUIRED | 4" | 542538 | CAP,PIPE, 4 IN IPS SDR 11, BUTT END, POLYETHYLENE, P100 | ASTM D2513 |
| 128 | 1 | 4" X 2" | 584304 | FITTING,TEE, 4 IN IPS X 2 IN IPS, ELECTROFUSION HIGH VOLUME TAPPING WITH BUTT FUSION OUTLET, HDPE, BLACK, WAS ITEM 577621 | HDPE |
| 171 | 1 | 6" x 2" | 578021 | FITTING,CLAMP, SERVI-SEAL REPAIR, 6 IN DIA, 9 IN LG, W/ 2 IN OUTLET, FOR STEEL PIPE | |
| 254 | AS REQUIRED | 2" | 581633 | FITTING,CAP, METFIT, 2 IN IPS X 0.216 IN THK WALL SDR 11, ASTM F1924 , FOR CAPPING PE GAS DISTRIBUTION PIPE AND TUBING, NSTAR M-410 | |
| 265 | 15' | 4" | 554008 | PIPE, 4 IN IPS X 0.409 IN THK WALL SDR 11, 4.5 IN OD, 40 FT LG, POLYETHYLENE, PE3408/PE100, 1200 FT/BUNDLE | PE3408/PE100 |

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

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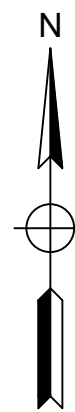
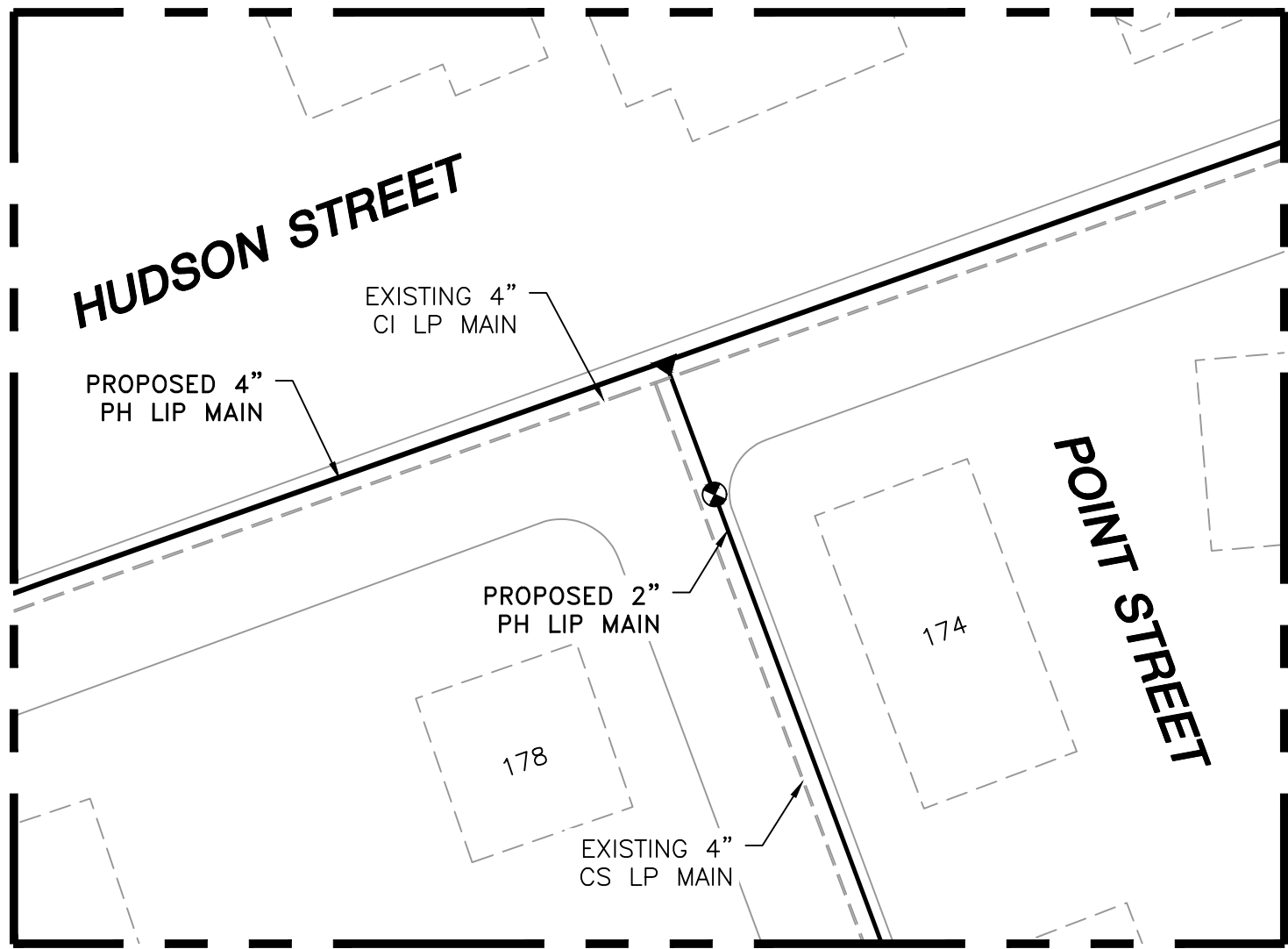
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EXPIRATION:
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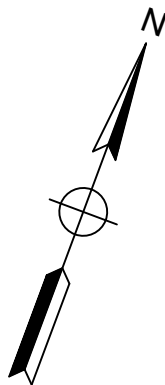
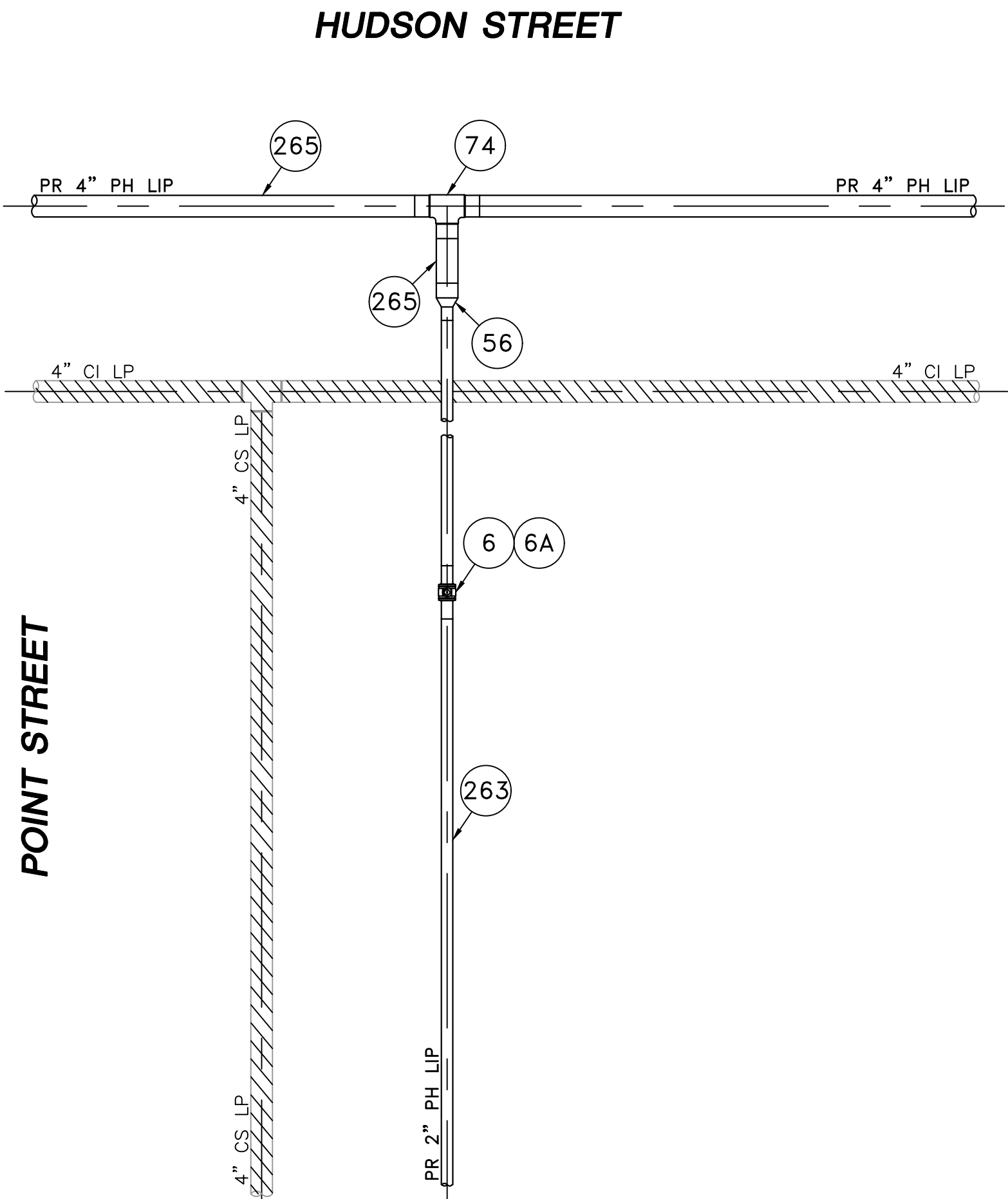
FIELD VERIFY DIMENSIONS
PRIOR TO PIPE FABRICATION

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| 0 | ISSUED FOR CONSTRUCTION | 09/14/2021 | ZS/AB/EK |
| NO. | DESCRIPTION | DATE | DW/CK/AP |
| REVISION STATUS | | | |
| EVERSOURCE ENERGY | | | |
| HUDSON STREET, SEYMOUR STREET, AND BAYVIEW STREET MAIN RELAYS NEW BEDFORD, MASSACHUSETTS | | | |
| LOCATION D - PHASE 1, 2 AND SCHEDULE OF MATERIALS | | | |
| SCALE: AS NOTED | | SHEET 13 OF 19 | |
| DRAWN BY / DATE WS 04/01/2021 | CHECKED BY / DATE AB 09/14/2021 | SHEET NUMBER | REV. NO. |
| APPROVED BY / DATE EK 09/14/2021 | MANEB21PIP063R0 | MA-NEB-21-PIP-063-13 | 0 |



LOCATION E - PLAN VIEW

(SCALE: 1"=30')
(REFER TO SHEET #6)
(DO NOT SCALE FROM DRAWINGS)



LOCATION E

(SCALE: 1"=2')
(REFER TO SHEET #6)
(DO NOT SCALE FROM DRAWINGS)

| HUDSON STREET MAIN RELAY - LOCATION E - SCHEDULE OF MATERIALS | | | | | |
|---|-----|---------|------------|--|--------------|
| ITEM | QTY | SIZE | MAXIMO NO. | DESCRIPTION | MATERIAL |
| 6 | 1 | 2" | 562087 | VALVE,BALL, 2 IN IPS, POLYETHYLENE, SDR 11, BUTT WELD, W/ FULL PORT OPENING | ASTM D2513 |
| 6A | 1 | 2" | | BOX, VALVE, PLASTIC, SNAP-ON, ADJ, W/CI NON-LOCKING LID | PLASTIC |
| 56 | 1 | 4" X 2" | 555593 | REDUCER, BUTT FUSION, IPS, HDPE 4710, SDR 11, ASTM D2513, ASTM D3350, ASTM D3261. PERFORMANCE PIPE OR | ASTM D2513 |
| 74 | 1 | 4" | 560679 | TEE,PIPE, 4 IN SDR 11, BUTT ENDS, POLYETHYLENE, P100 | ASTM D2513 |
| 263 | 20' | 2" | 554025 | PIPE, 2 IN IPS X 0.216 IN THK WALL SDR 11, 2.375 IN OD, 350 FT LG COIL, POLYETHYLENE, PE3408/PE100 | PE3408/PE100 |
| 265 | 30' | 4" | 554008 | PIPE, 4 IN IPS X 0.409 IN THK WALL SDR 11, 4.5 IN OD, 40 FT LG, POLYETHYLENE, PE3408/PE100, 1200 FT/BUNDLE | PE3408/PE100 |

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

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| 0 | ISSUED FOR CONSTRUCTION | 09/14/2021 | ZS/AB/EK |
| NO. | DESCRIPTION | DATE | DW/CK/AP |

| REVISION STATUS | | | |
|---|------------------------------------|----------------------|----------|
| EVERSOURCE ENERGY | | | |
| HUDSON STREET, SEYMOUR STREET, AND BAYVIEW STREET MAIN RELAYS | | | |
| NEW BEDFORD, MASSACHUSETTS | | | |
| LOCATION E AND SCHEDULE OF MATERIALS | | | |
| SCALE: AS NOTED | | SHEET 14 OF 19 | |
| DRAWN BY / DATE WS 04/01/2021 | CHECKED BY / DATE AB 09/14/2021 | SHEET NUMBER | REV. NO. |
| APPROVED BY / DATE EK 09/14/2021 | MANEB21PIP063R0 | MA-NEB-21-PIP-063-14 | 0 |

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09/14/2021

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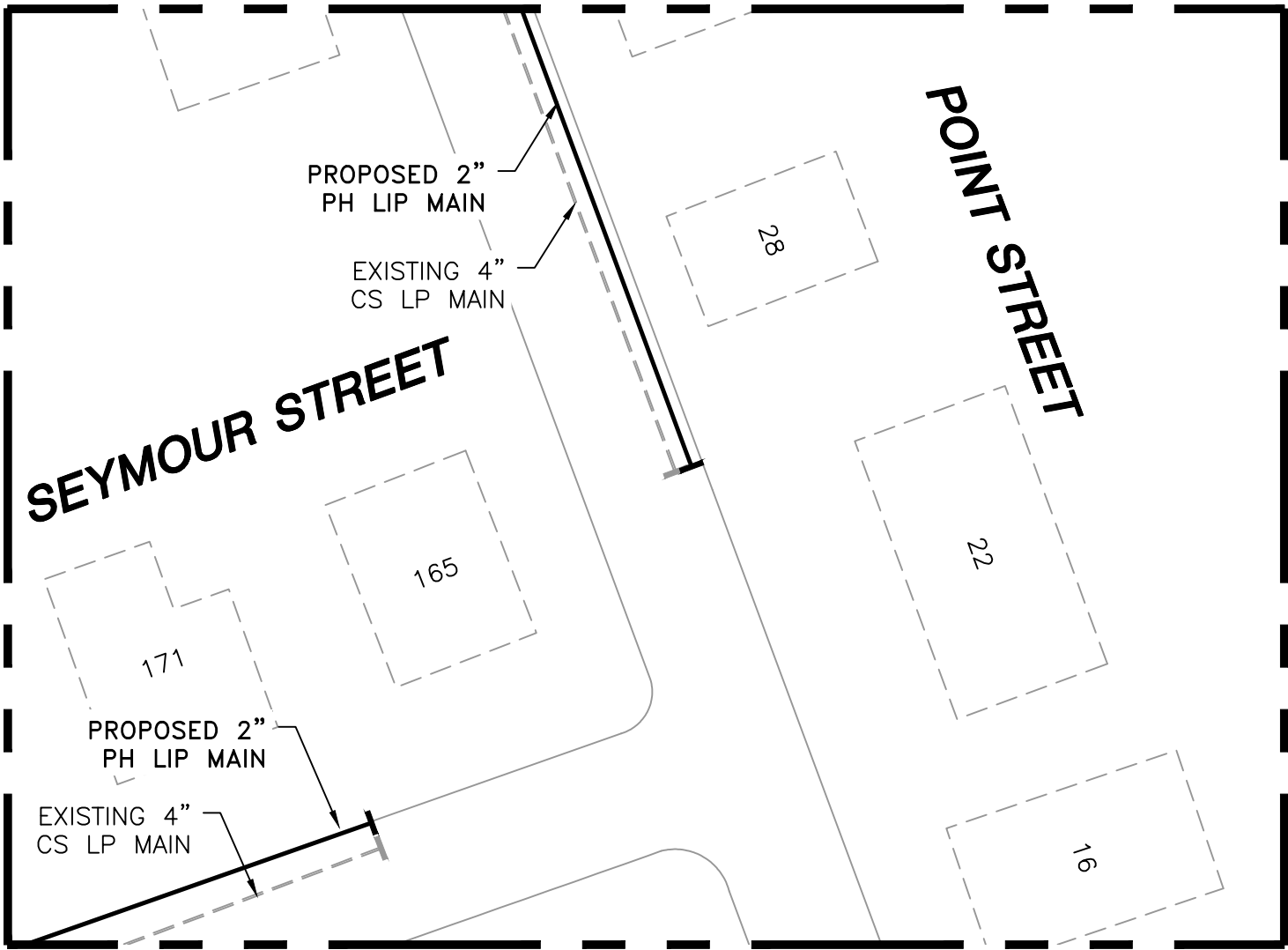
06/30/2022

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

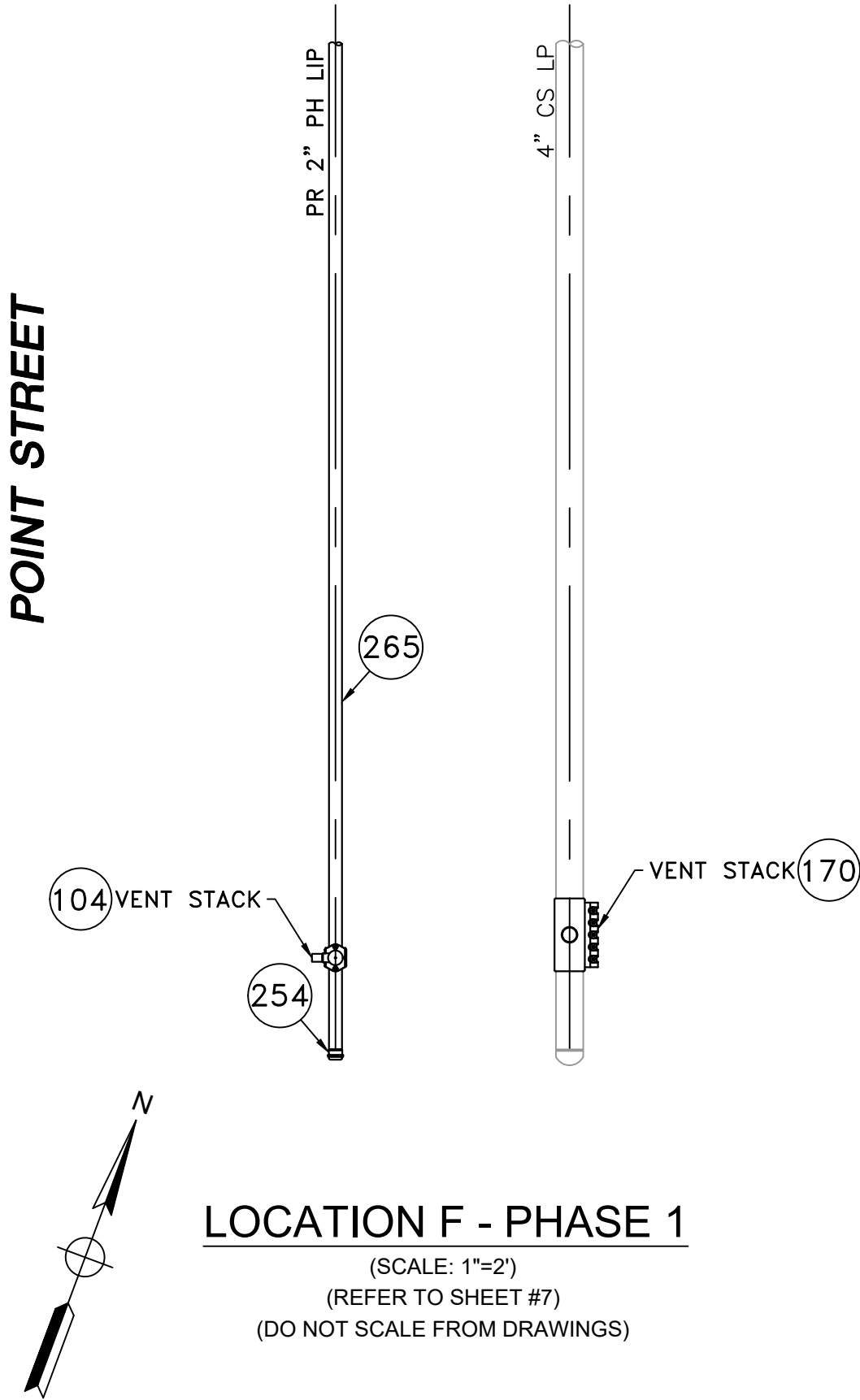
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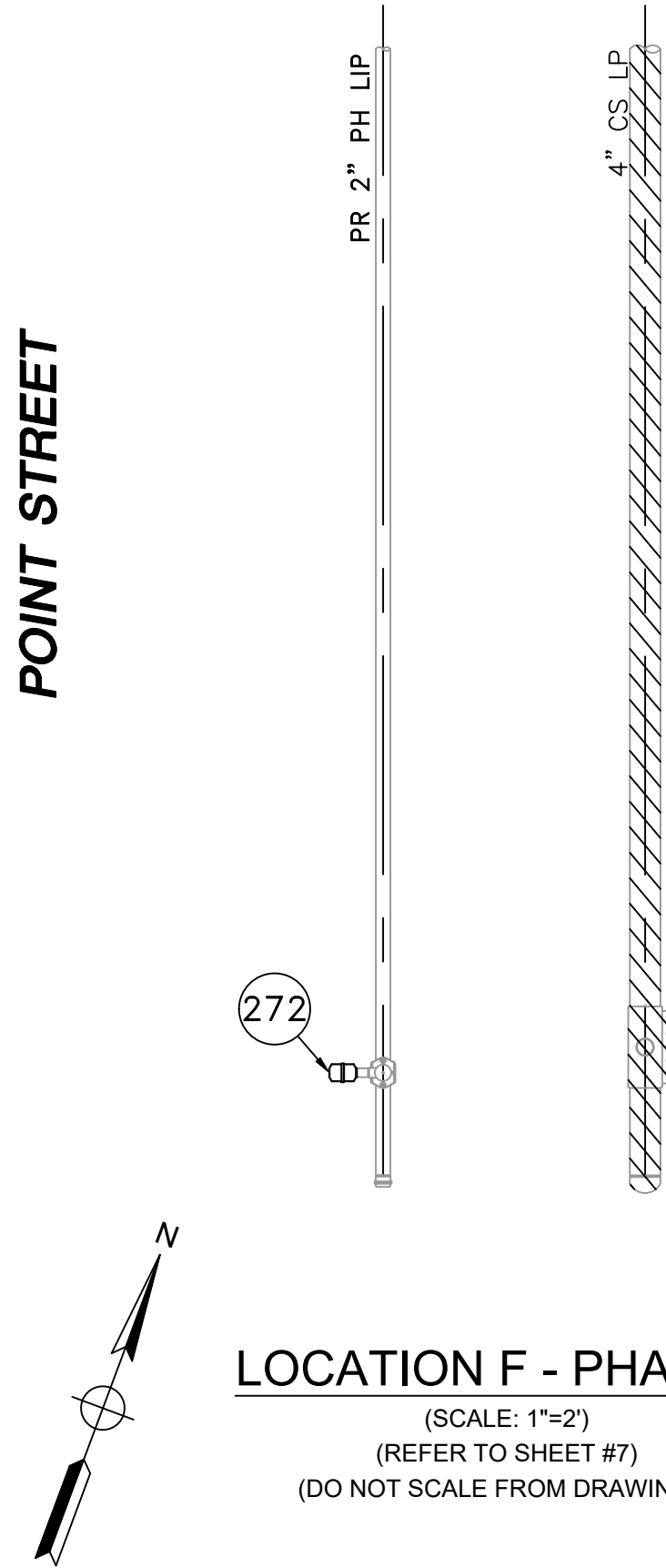
FIELD VERIFY DIMENSIONS
PRIOR TO PIPE FABRICATION



LOCATION F - PLAN VIEW
(SCALE: 1"=30')
(REFER TO SHEET #7)
(DO NOT SCALE FROM DRAWINGS)



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



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

| HUDSON STREET MAIN RELAY - LOCATION F - SCHEDULE OF MATERIALS | | | | | |
|---|-------------|---------|------------|--|----------|
| ITEM | QTY | SIZE | MAXIMO NO. | DESCRIPTION | MATERIAL |
| 104 | 1 | 2" X 1" | 560779 | TEE,PIPE, NON-BLOWING, 2 X 1 IN IPS SDR 11, ELECTROFUSION X COMPRESSION ENDS, LIGHT WALL, POLYETHYLENE, PE3408/PE100 | PE3408 |
| 170 | 1 | 4" x 2" | 543028 | CLAMP,PIPE, REPAIR, 4 IN IPS, SS, W/2 IN TAP | |
| 254 | AS REQUIRED | 2" | 581633 | FITTING,CAP, METFIT, 2 IN IPS X 0.216 IN THK WALL SDR 11, ASTM F1924 , FOR CAPPING PE GAS DISTRIBUTION PIPE AND TUBING, NSTAR M-410 | |
| 265 | 15' | 4" | 554008 | PIPE, 4 IN IPS X 0.409 IN THK WALL SDR 11, 4.5 IN OD, 40 FT LG, POLYETHYLENE, PE3408/PE100, 1200 FT/BUNDLE | |
| 272 | AS REQUIRED | 1" | 583182 | FITTING,CAP, METFIT, 1 IN IPS X 0.119 IN THK WALL SDR 11, ASTM F1924 , FOR CAPPING PE GAS DISTRIBUTION PIPE AND TUBING, REPLACED IN 542612 | |

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

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| 0 | ISSUED FOR CONSTRUCTION | 09/14/2021 | ZS/AB/EK |
| NO. | DESCRIPTION | DATE | DW/CK/AP |
| REVISION STATUS | | | |
| EVERSOURCE ENERGY | | | |
| HUDSON STREET, SEYMOUR STREET, AND BAYVIEW STREET MAIN RELAYS | | | |
| NEW BEDFORD, MASSACHUSETTS | | | |
| LOCATION F - PHASE 1, 2 AND SCHEDULE OF MATERIALS | | | |
| SCALE: AS NOTED | | SHEET 15 OF 19 | |
| DRAWN BY / DATE WS 04/01/2021 | CHECKED BY / DATE AB 09/14/2021 | SHEET NUMBER | REV. NO. |
| APPROVED BY / DATE EK 09/14/2021 | MANEB21PIP063R0 | MA-NEB-21-PIP-063-15 | 0 |

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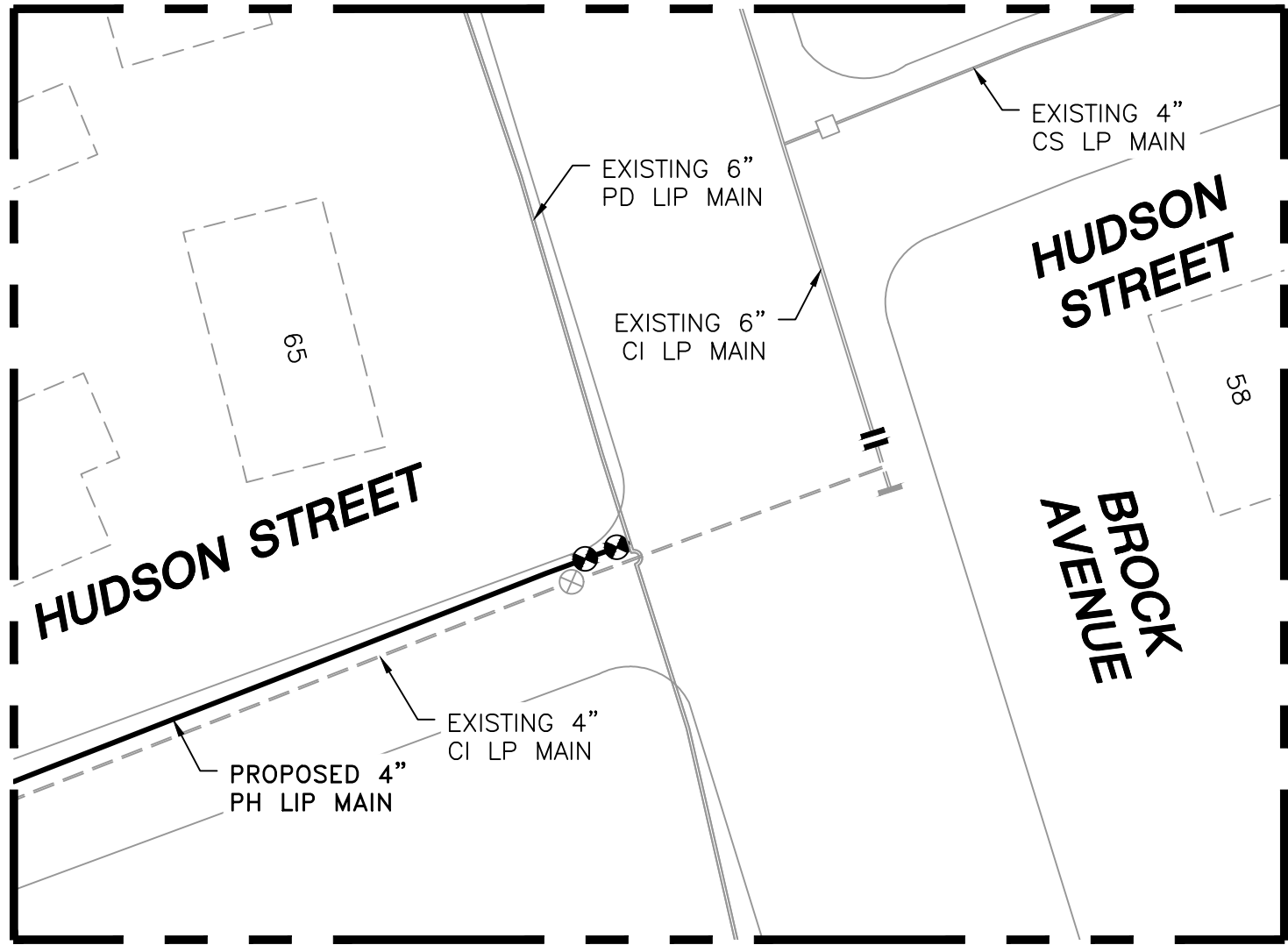
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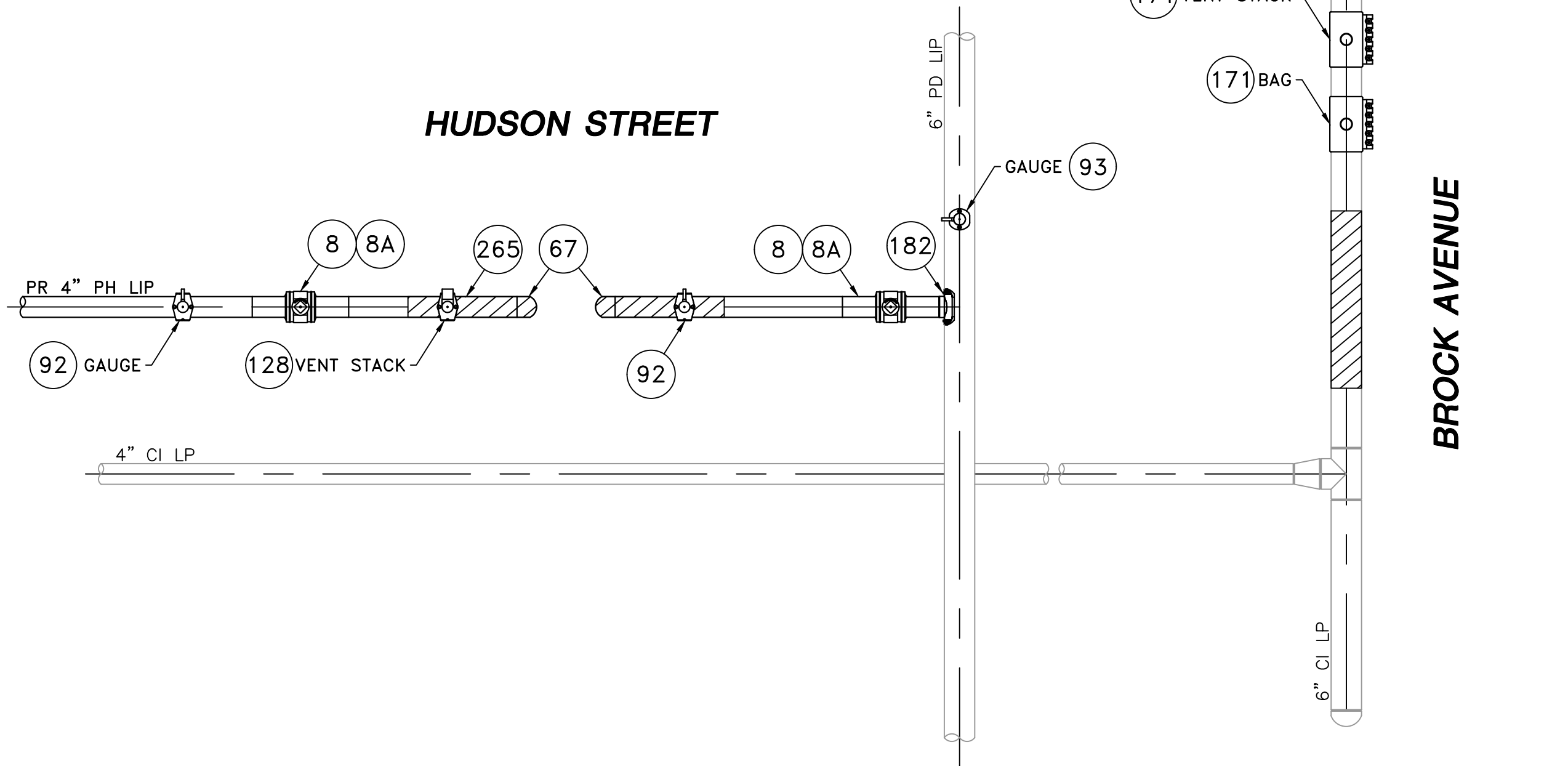
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EXPIRATION:
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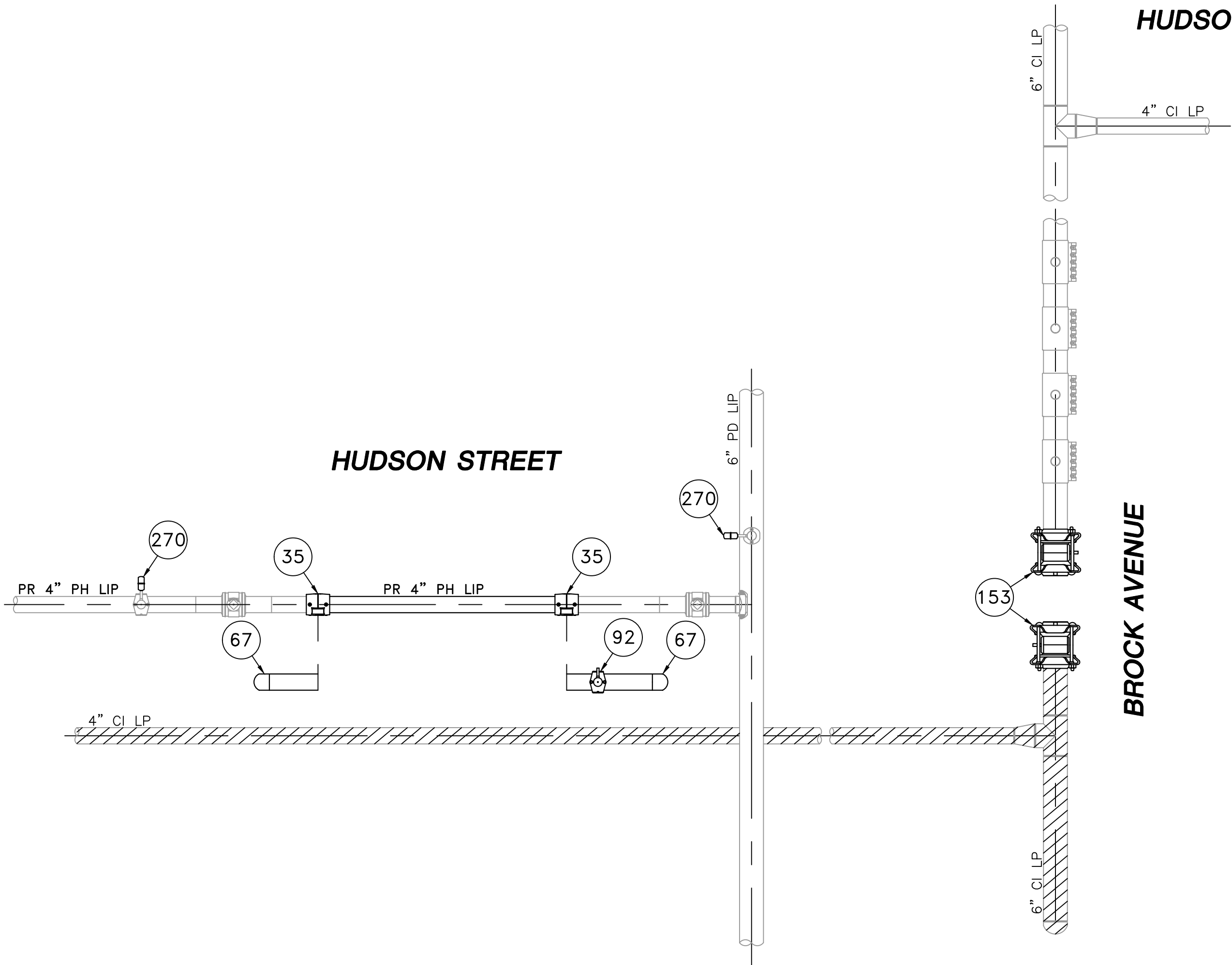
FIELD VERIFY DIMENSIONS
PRIOR TO PIPE FABRICATION



LOCATION G - PLAN VIEW
(SCALE: 1"=30")
(REFER TO SHEET #8)
(DO NOT SCALE FROM DRAWINGS)



LOCATION G - PHASE 1
(SCALE: 1"=2")
(REFER TO SHEET #8)
(DO NOT SCALE FROM DRAWINGS)



LOCATION G - PHASE 2
(SCALE: 1"=2")
(REFER TO SHEET #8)
(DO NOT SCALE FROM DRAWINGS)

| HUDSON STREET MAIN RELAY - LOCATION G - SCHEDULE OF MATERIALS | | | | | |
|---|-------------|-----------|------------|--|--------------|
| ITEM | QTY | SIZE | MAXIMO NO. | DESCRIPTION | MATERIAL |
| 8 | 2 | 4" | 501002 | VALVE,BALL, 4 IN, POLYETHYLENE, SDR 11, BUTT WELD, W/ FULL PORT OPENING, TO BE USED W/ BRAND SADDLE INST, P100 | ASTM D2513 |
| 8A | 2 | 4" | | BOX, VALVE, PLASTIC, SNAP-ON, ADJ, W/CI NON-LOCKING LID | PLASTIC |
| 35 | AS REQUIRED | 4" | 500855 | COUPLING,PIPE, 4 IN IPS, ELECTROFUSION, PLASTIC, P100 | ASTM D3350 |
| 67 | AS REQUIRED | 4" | 542538 | CAP,PIPE, 4 IN IPS SDR 11, BUTT END, POLYETHYLENE, P100 | ASTM D2513 |
| 92 | 3 | 4" X 1/2" | 500867 | TEE,PIPE, NON-BLOWING, 4 X 1/2 IN CTS X 0.090 IN THK WALL SDR 7, ELECTROFUSION X COMPRESSION ENDS, LIGHT WALL, POLYETHYLENE, PE3408/PE100, 1 | PE3408 |
| 93 | 1 | 6" X 1/2" | 500869 | TEE,PIPE, NON-BLOWING, 6 X 1/2 IN CTS X 0.090 IN THK WALL SDR 7, ELECTROFUSION X COMPRESSION ENDS, LIGHT WALL, POLYETHYLENE, PE3408/PE100 | |
| 128 | 1 | 4" X 2" | 584304 | FITTING,TEE, 4 IN IPS X 2 IN IPS, ELECTROFUSION HIGH VOLUME TAPPING WITH BUTT FUSION OUTLET, HDPE, BLACK, WAS ITEM 577621 | HDPE |
| 153 | 2 | 6" | 578129 | FITTING,COUPLING, VENTED, INSULATED, W/ END CAP, FOR 6 CI PIPE | |
| 171 | 4 | 6" x 2" | 578021 | FITTING,CLAMP, SERVI-SEAL REPAIR, 6 IN DIA, 9 IN LG, W/ 2 IN OUTLET, FOR STEEL PIPE | |
| 182 | 1 | 6" x 4" | 500876 | SADDLE,PIPE, BRANCH, 6 IN IPS SADDLE X 4 IN IPS OUTLET SDR 11, ELECTROFUSION , PLASTIC, P100 | PLASTIC P100 |
| 265 | 25' | 4" | 554008 | PIPE, 4 IN IPS X 0.409 IN THK WALL SDR 11, 4.5 IN OD, 40 FT LG, POLYETHYLENE, PE3408/PE100, 1200 FT/BUNDLE | PE3408/PE100 |
| 270 | AS REQUIRED | 1/2" | 579972 | FITTING,CAP, METFIT, 1/2 IN CTS X 0.90 IN THK WALL SDR 7, REPLACED IN 542609 | |

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

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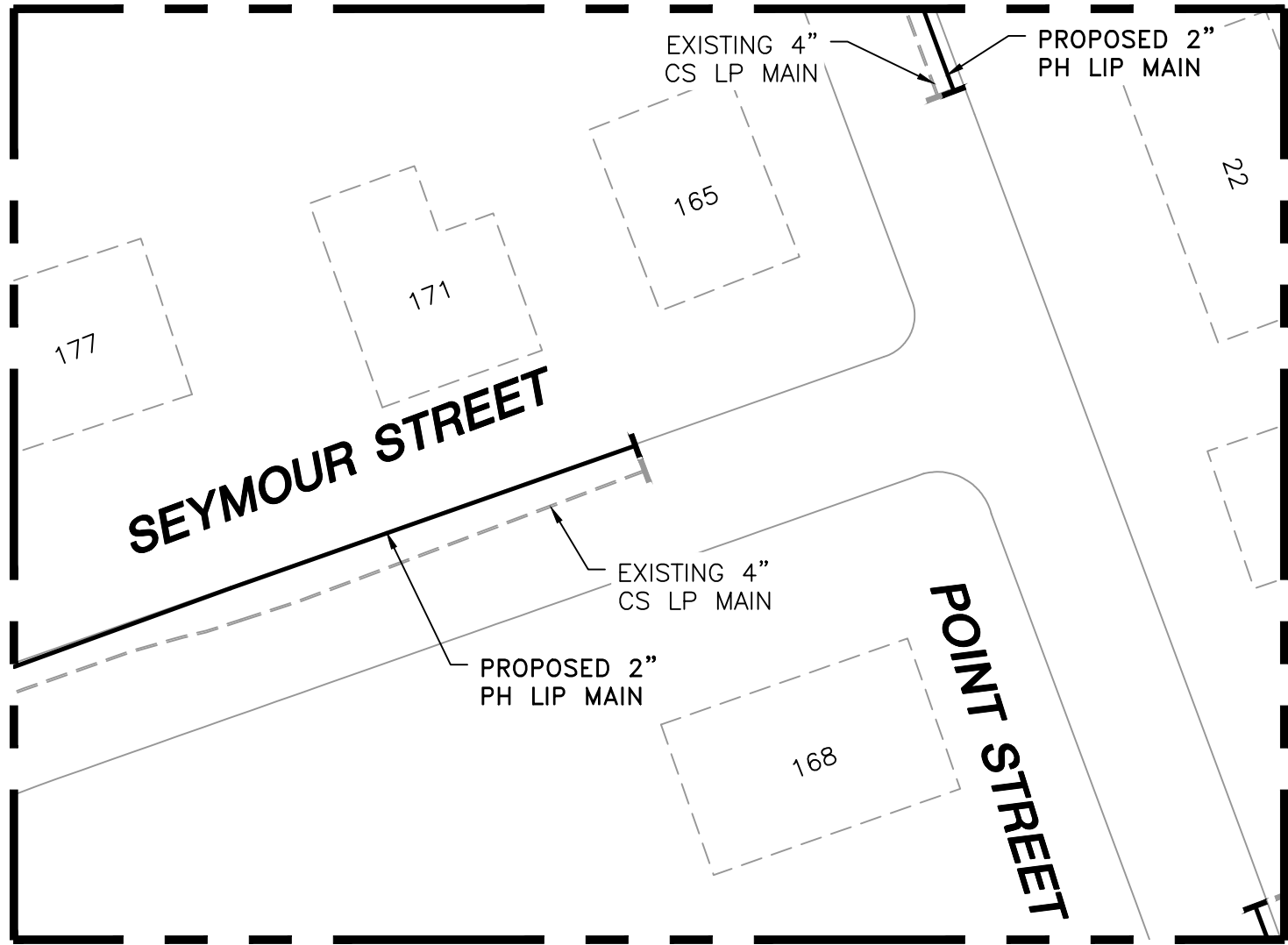
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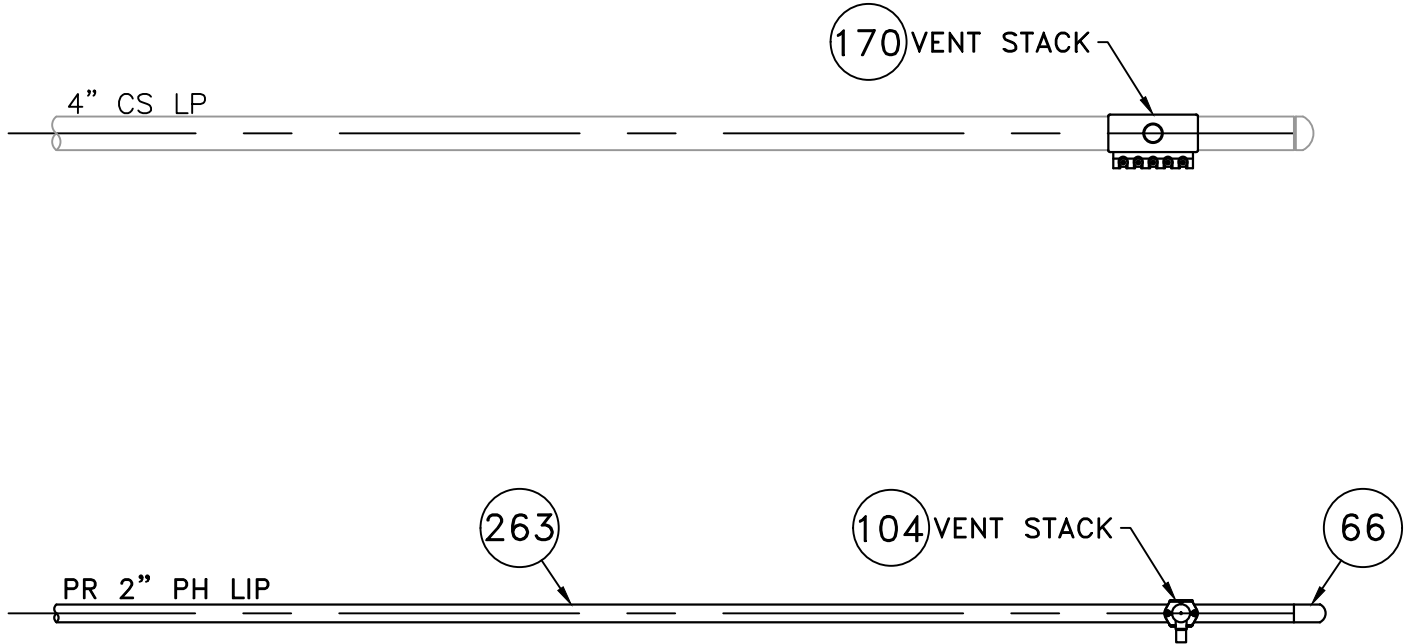
| 0 | ISSUED FOR CONSTRUCTION | 09/14/2021 | ZS/AB/EK |
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| NO. | DESCRIPTION | DATE | DW/CK/AP |
| REVISION STATUS | | | |
| EVERSOURCE ENERGY | | | |
| HUDSON STREET, SEYMOUR STREET, AND BAYVIEW STREET MAIN RELAYS | | | |
| NEW BEDFORD, MASSACHUSETTS | | | |
| LOCATION G - PHASE 1, 2 AND SCHEDULE OF MATERIALS | | | |
| SCALE: AS NOTED | | SHEET 16 OF 19 | |
| DRAWN BY / DATE WS 04/01/2021 | CHECKED BY / DATE AB 09/14/2021 | SHEET NUMBER MA-NEB-21-PIP-063-16 | REV. NO. 0 |
| APPROVED BY / DATE EK 09/14/2021 | MANEB21PIP063R0 | | |



LOCATION H - PLAN VIEW
(SCALE: 1"=30')
(REFER TO SHEET #8)
(DO NOT SCALE FROM DRAWINGS)

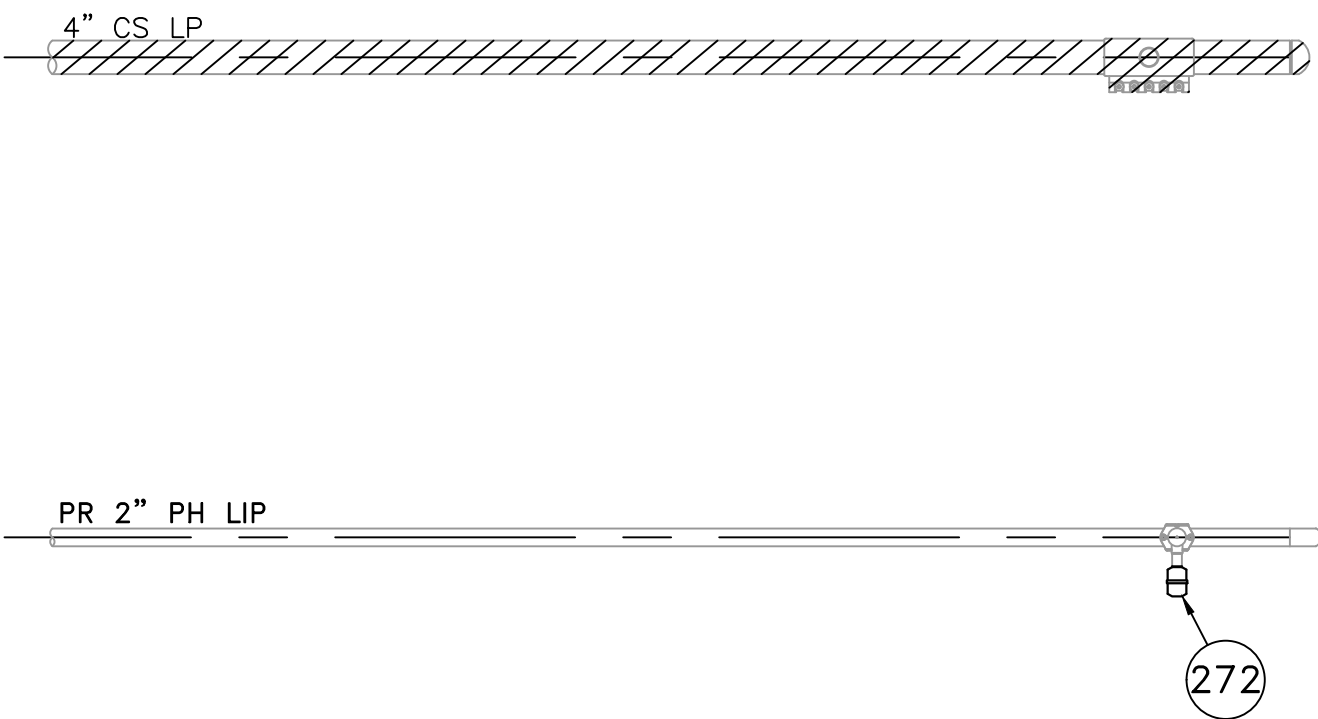
| HUDSON STREET MAIN RELAY - LOCATION H - SCHEDULE OF MATERIALS | | | | | |
|---|-------------|---------|------------|---|--------------|
| ITEM | QTY | SIZE | MAXIMO NO. | DESCRIPTION | MATERIAL |
| 66 | 1 | 2" | 542572 | CAP, BUTT FUSION, IPS, HDPE 4710, SDR 11, ASTM D2513, ASTM D3350, ASTM D3261. PERFORMANCE PIPE OR APPROVED EQUAL. | ASTM D2513 |
| 104 | 1 | 2" X 1" | 560779 | TEE, PIPE, NON-BLOWING, 2 X 1 IN IPS SDR 11, ELECTROFUSION X COMPRESSION ENDS, LIGHT WALL, POLYETHYLENE, PE3408/PE100 | PE3408 |
| 170 | 1 | 4" x 2" | 543028 | CLAMP, PIPE, REPAIR, 4 IN IPS, SS, W/2 IN TAP | |
| 263 | 15' | 2" | 554025 | PIPE, 2 IN IPS X 0.216 IN THK WALL SDR 11, 2.375 IN OD, 350 FT LG COIL, POLYETHYLENE, PE3408/PE100 | PE3408/PE100 |
| 272 | AS REQUIRED | 1" | 583182 | FITTING, CAP, METFIT, 1 IN IPS X 0.119 IN THK WALL SDR 11, ASTM F1924 , FOR CAPPING PE GAS DISTRIBUTION PIPE AND TUBING, REPLACED IN 542612 | |

SEYMOUR STREET



LOCATION H - PHASE 1
(SCALE: 1"=2')
(REFER TO SHEET #8)
(DO NOT SCALE FROM DRAWINGS)

SEYMOUR STREET



LOCATION H - PHASE 2
(SCALE: 1"=2')
(REFER TO SHEET #8)
(DO NOT SCALE FROM DRAWINGS)

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

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09/14/2021

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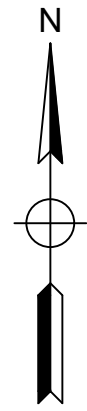
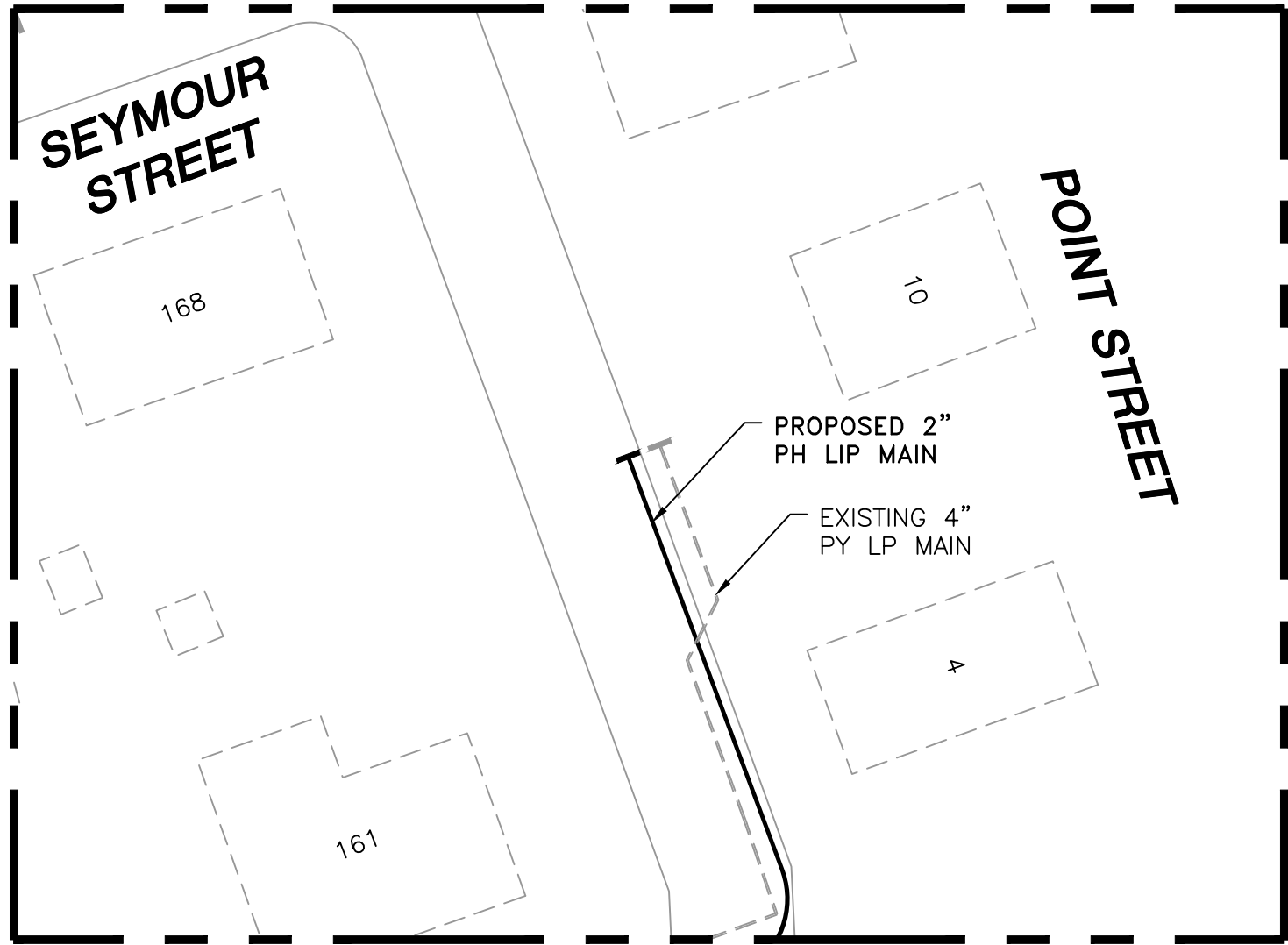
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EXPIRATION:
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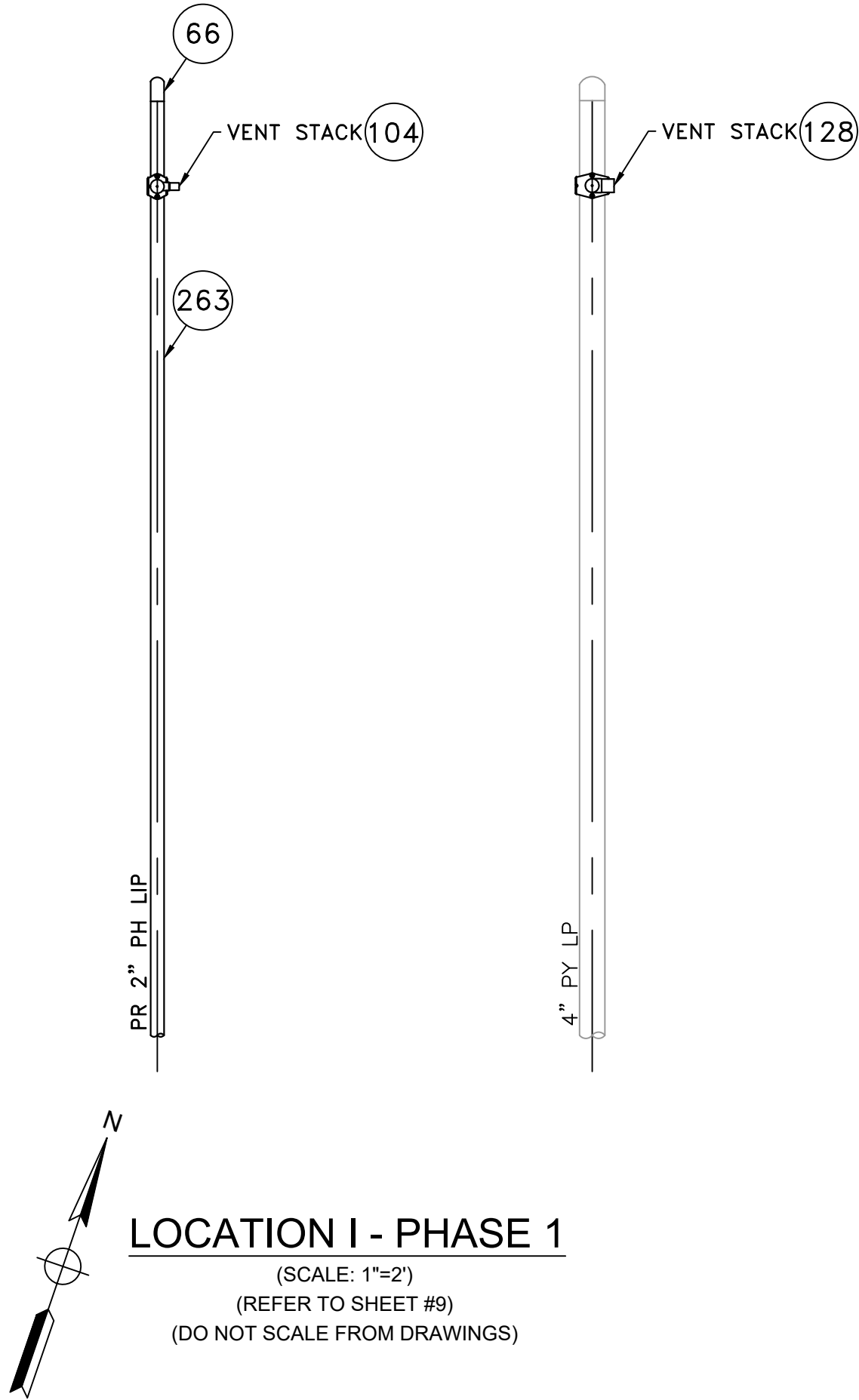
FIELD VERIFY DIMENSIONS
PRIOR TO PIPE FABRICATION

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| NO. | DESCRIPTION | DATE | DW/CK/AP |
| REVISION STATUS | | | |
| EVERSOURCE ENERGY | | | |
| HUDSON STREET, SEYMOUR STREET, AND BAYVIEW STREET MAIN RELAYS NEW BEDFORD, MASSACHUSETTS | | | |
| LOCATION H - PHASE 1, 2 AND SCHEDULE OF MATERIALS | | | |
| SCALE: AS NOTED | | SHEET 17 OF 19 | |
| DRAWN BY / DATE WS 04/01/2021 | CHECKED BY / DATE AB 09/14/2021 | SHEET NUMBER | REV. NO. |
| APPROVED BY / DATE EK 09/14/2021 | MANEB21PIP063R0 | MA-NEB-21-PIP-063-17 | 0 |



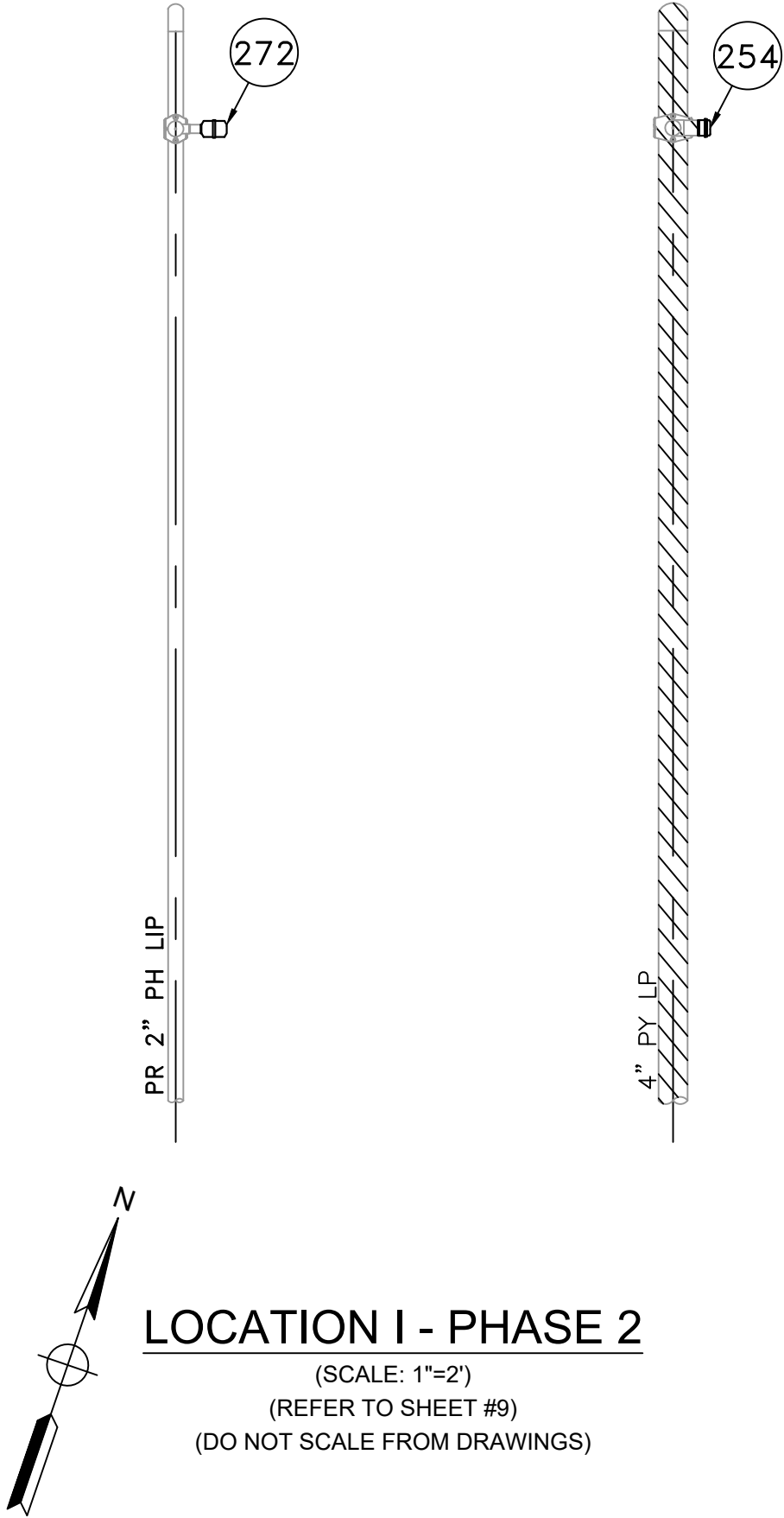
LOCATION I - PLAN VIEW
(SCALE: 1"=30')
(REFER TO SHEET #9)
(DO NOT SCALE FROM DRAWINGS)

POINT STREET



LOCATION I - PHASE 1
(SCALE: 1"=2')
(REFER TO SHEET #9)
(DO NOT SCALE FROM DRAWINGS)

POINT STREET



LOCATION I - PHASE 2
(SCALE: 1"=2')
(REFER TO SHEET #9)
(DO NOT SCALE FROM DRAWINGS)

| HUDSON STREET MAIN RELAY - LOCATION I - SCHEDULE OF MATERIALS | | | | | |
|---|-------------|---------|------------|---|--------------|
| ITEM | QTY | SIZE | MAXIMO NO. | DESCRIPTION | MATERIAL |
| 66 | AS REQUIRED | 2" | 542572 | CAP, BUTT FUSION, IPS, HDPE 4710, SDR 11, ASTM D2513, ASTM D3350, ASTM D3261. PERFORMANCE PIPE OR APPROVED EQUAL. | ASTM D2513 |
| 104 | 1 | 2" X 1" | 560779 | TEE,PIPE, NON-BLOWING, 2 X 1 IN IPS SDR 11, ELECTROFUSION X COMPRESSION ENDS, LIGHT WALL, POLYETHYLENE, PE3408/PE100 | PE3408 |
| 128 | 1 | 4" X 2" | 584304 | FITTING,TEE, 4 IN IPS X 2 IN IPS, ELECTROFUSION HIGH VOLUME TAPPING WITH BUTT FUSION OUTLET, HDPE, BLACK, WAS ITEM 577621 | HDPE |
| 254 | AS REQUIRED | 2" | 581633 | FITTING,CAP, METFIT, 2 IN IPS X 0.216 IN THK WALL SDR 11, ASTM F1924 , FOR CAPPING PE GAS DISTRIBUTION PIPE AND TUBING, NSTAR M-410 | |
| 263 | 15' | 2" | 554025 | PIPE, 2 IN IPS X 0.216 IN THK WALL SDR 11, 2.375 IN OD, 350 FT LG COIL, POLYETHYLENE, PE3408/PE100 | PE3408/PE100 |
| 270 | AS REQUIRED | 1/2" | 579972 | FITTING,CAP, METFIT, 1/2 IN CTS X 0.90 IN THK WALL SDR 7, REPLACED IN 542609 | |

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

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| NO. | DESCRIPTION | DATE | DW/CK/AP |
| REVISION STATUS | | | |
| EVERSOURCE ENERGY | | | |
| HUDSON STREET, SEYMOUR STREET, AND BAYVIEW STREET MAIN RELAYS NEW BEDFORD, MASSACHUSETTS | | | |
| LOCATION I - PHASE 1, 2 AND SCHEDULE OF MATERIALS | | | |
| SCALE: AS NOTED | | SHEET 18 OF 19 | |
| DRAWN BY / DATE WS 04/01/2021 | CHECKED BY / DATE AB 09/14/2021 | SHEET NUMBER | REV. NO. |
| APPROVED BY / DATE EK 09/14/2021 | MANEB21PIP063R0 | MA-NEB-21-PIP-063-18 | 0 |

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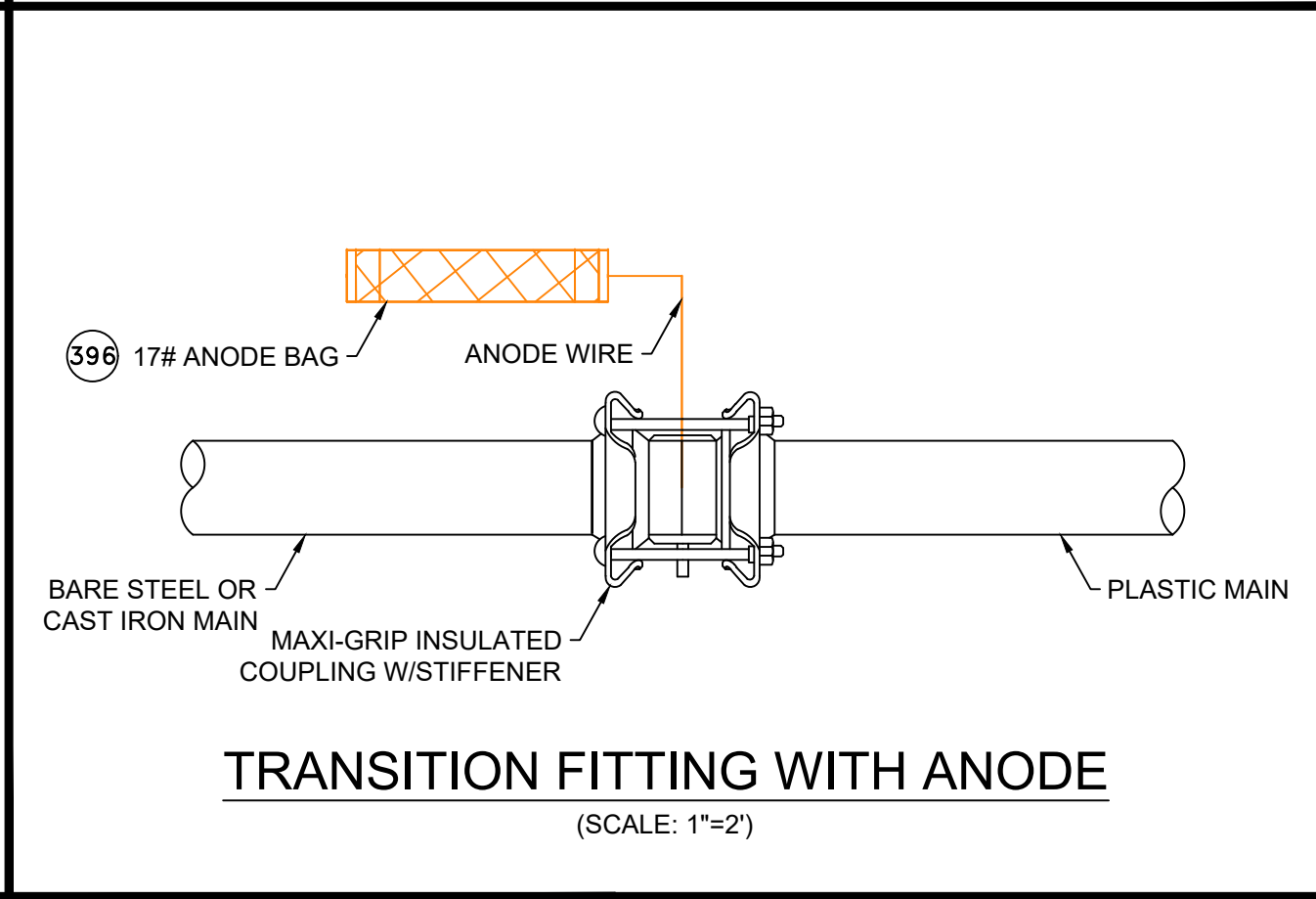
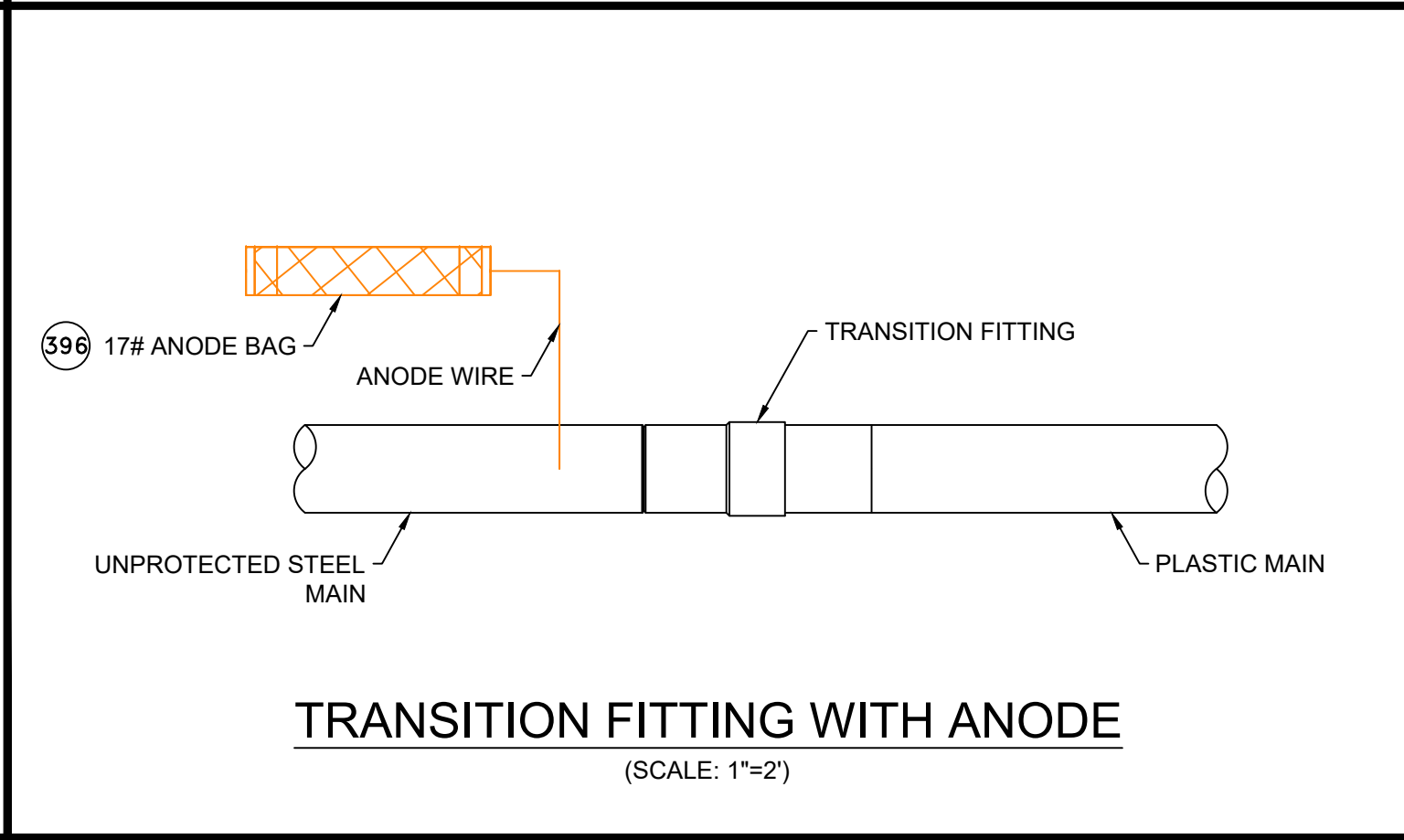
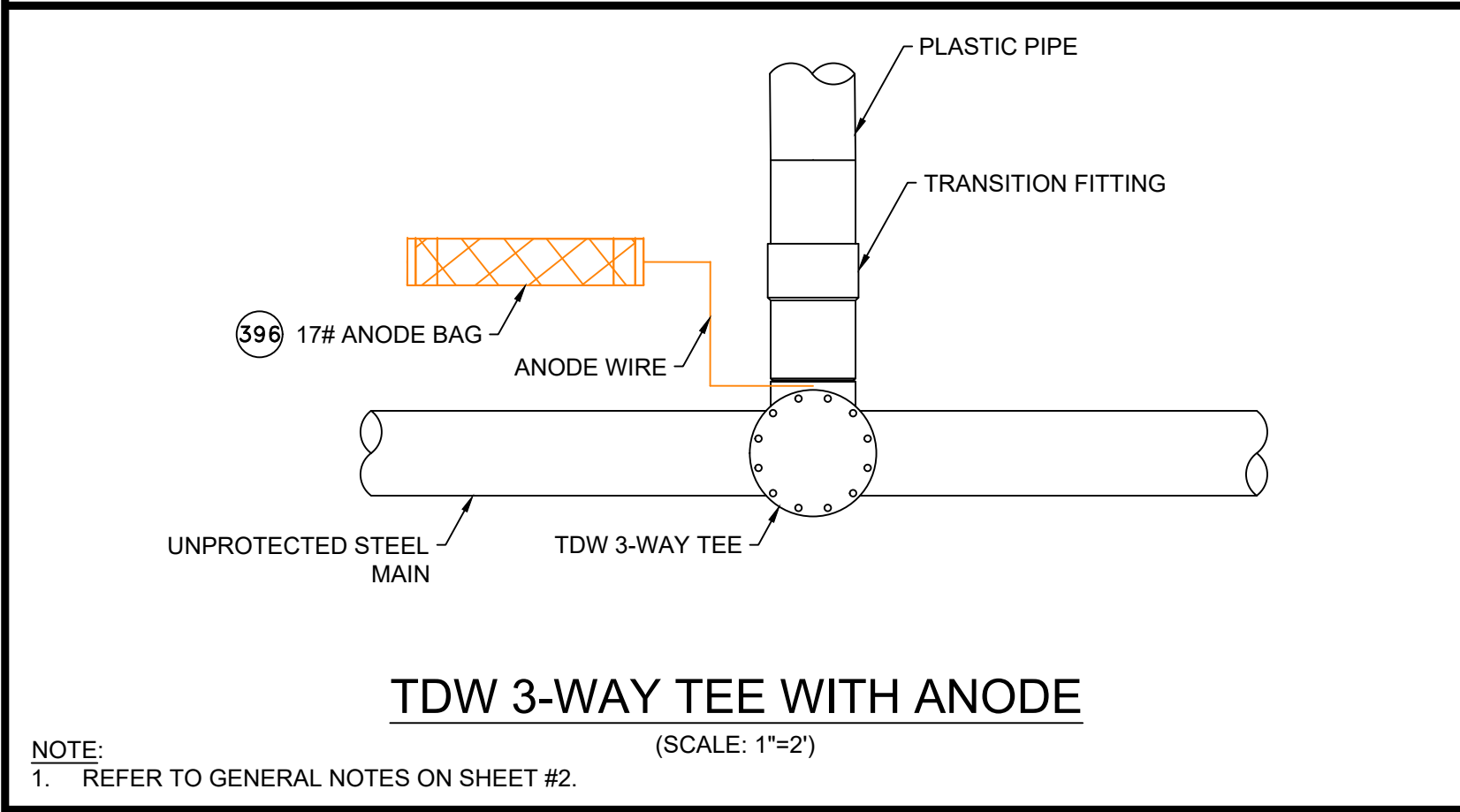
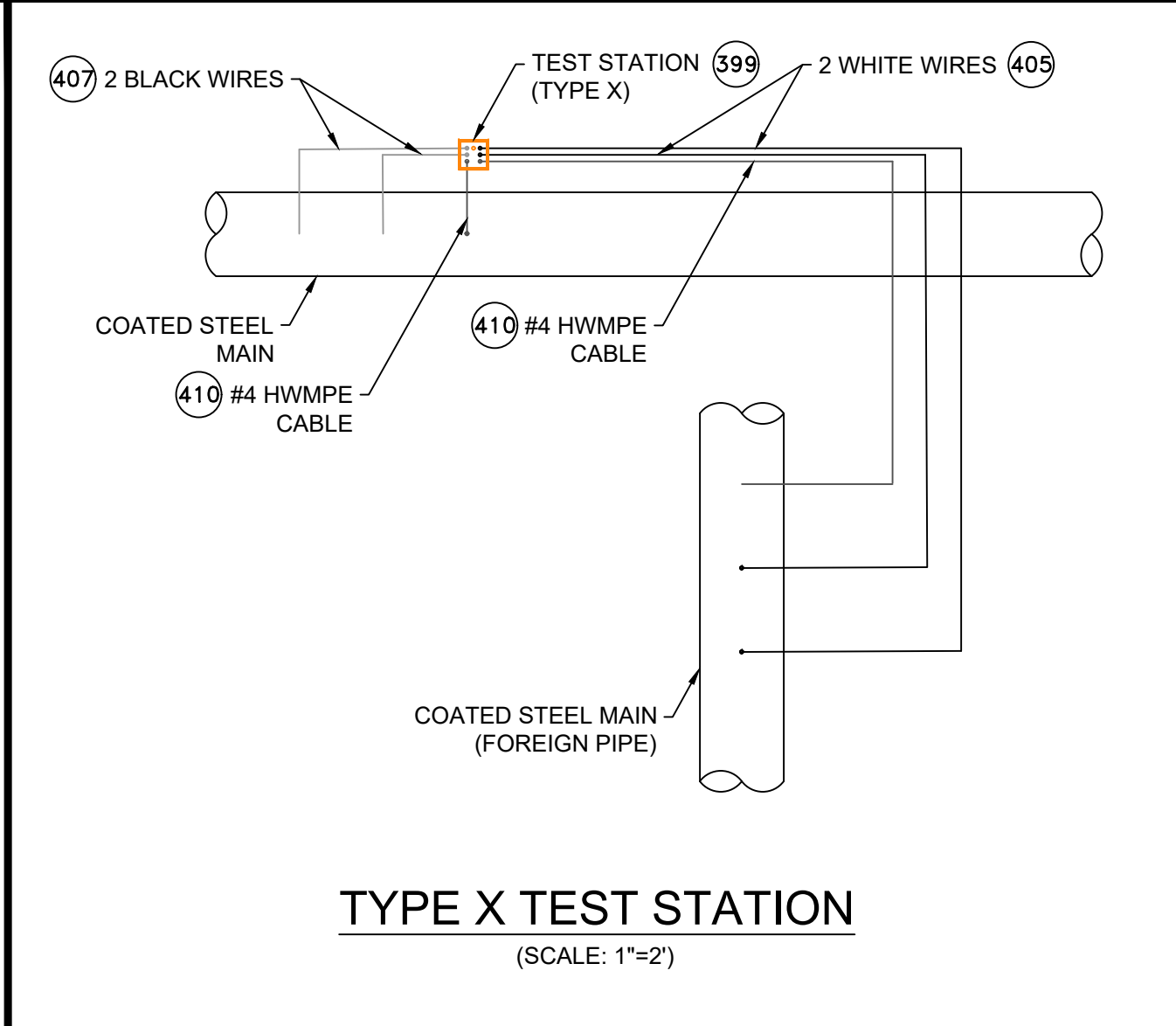
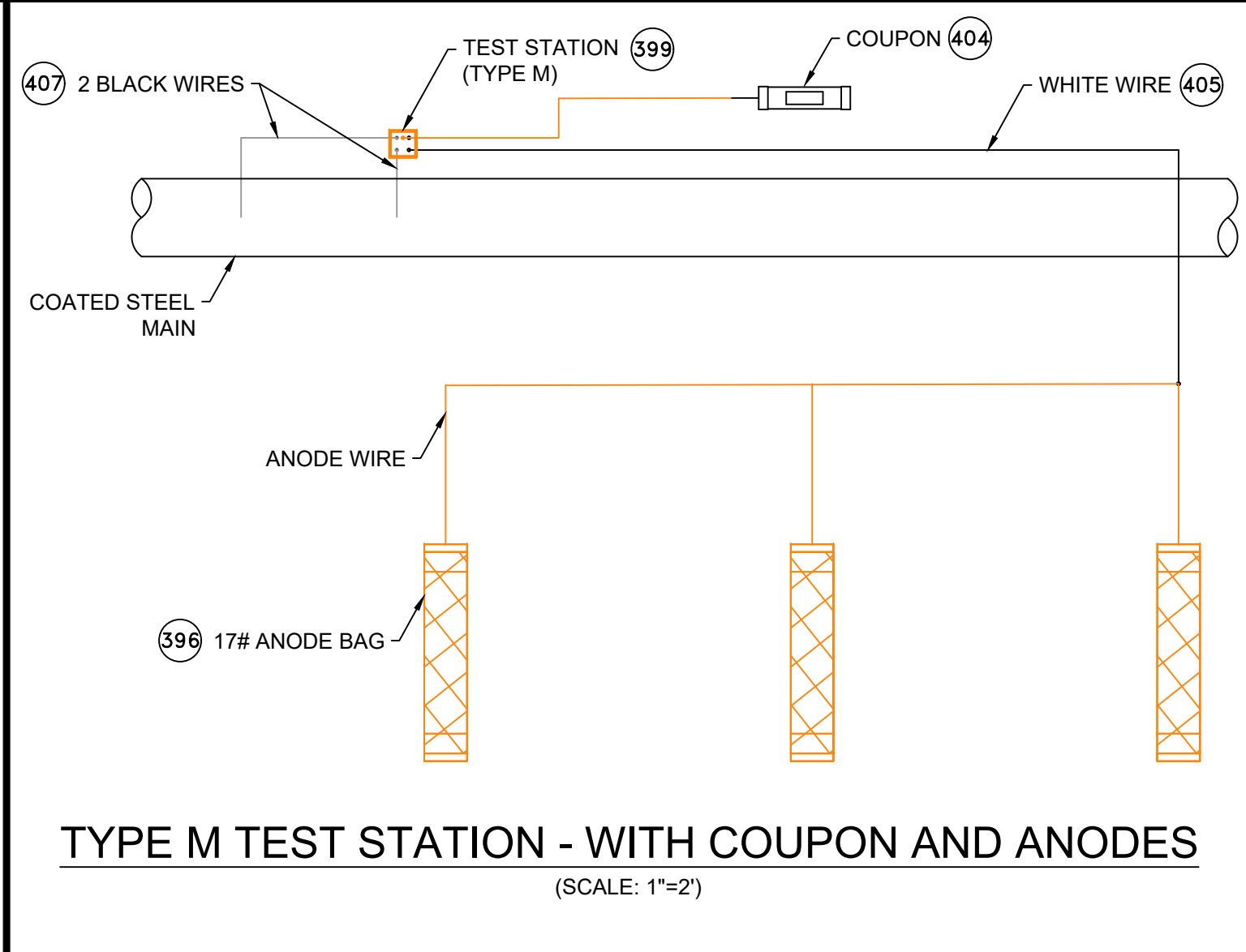
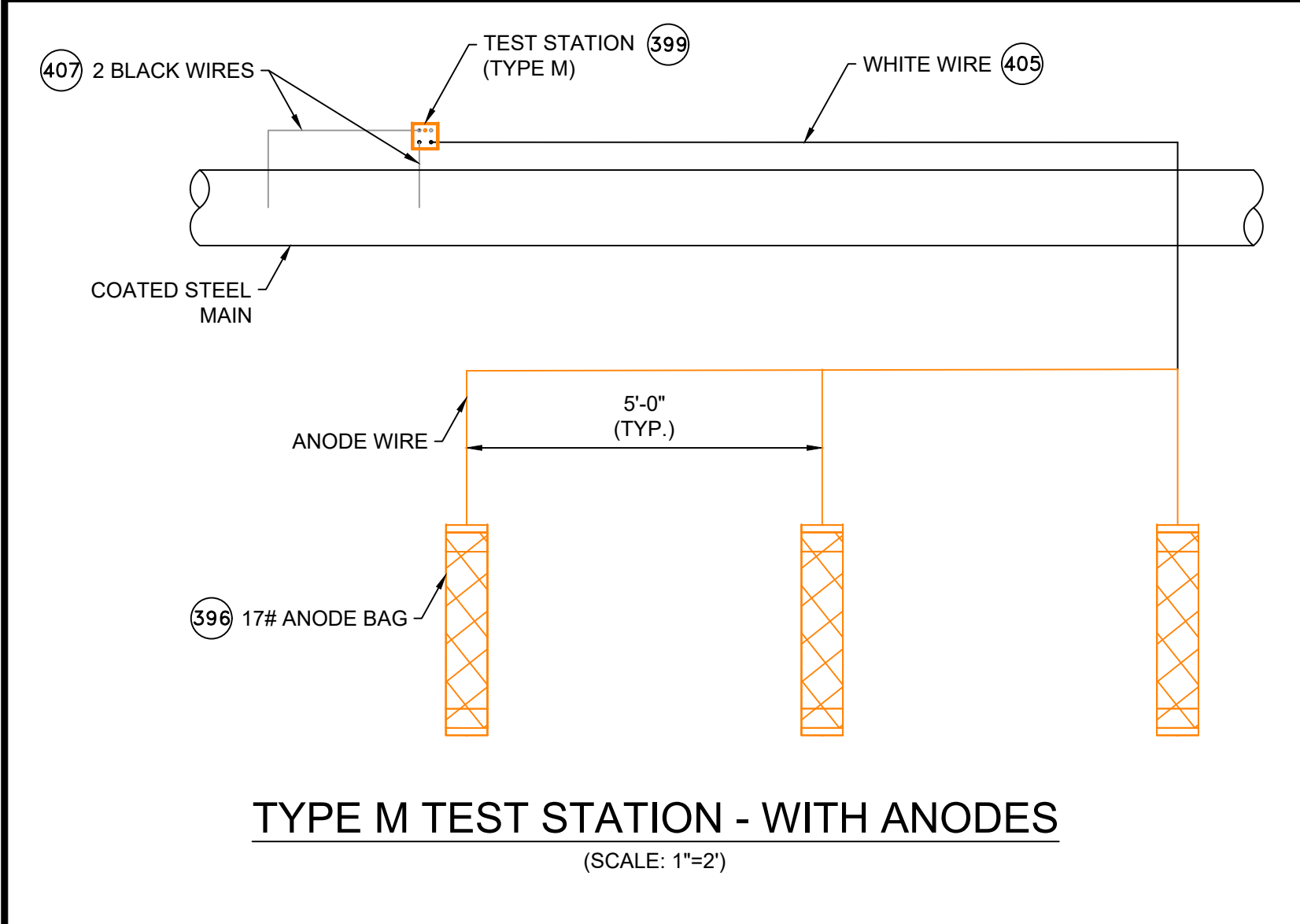
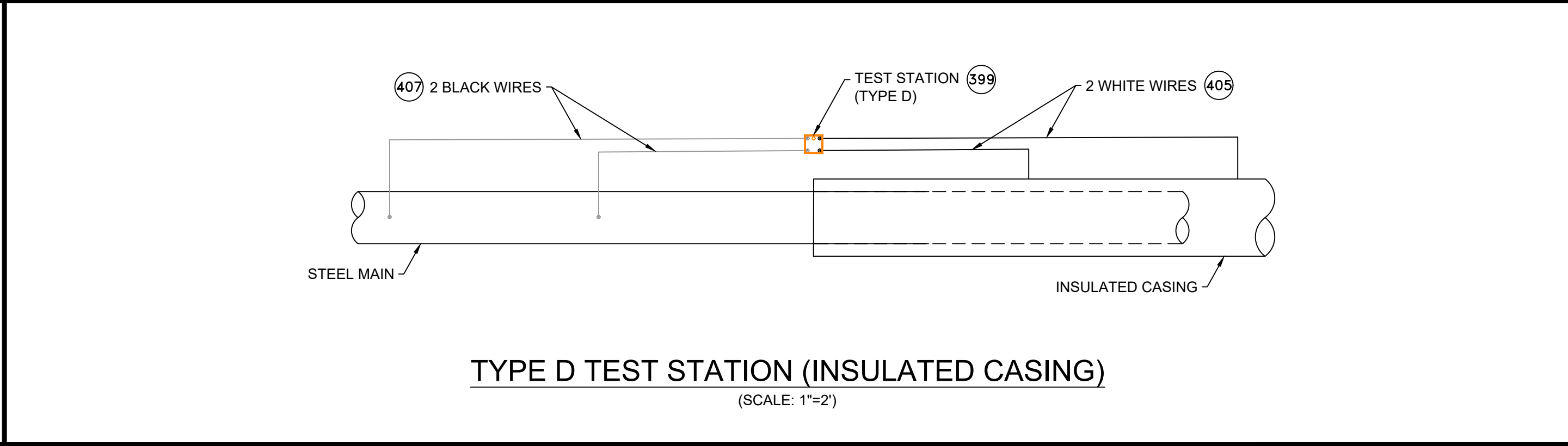
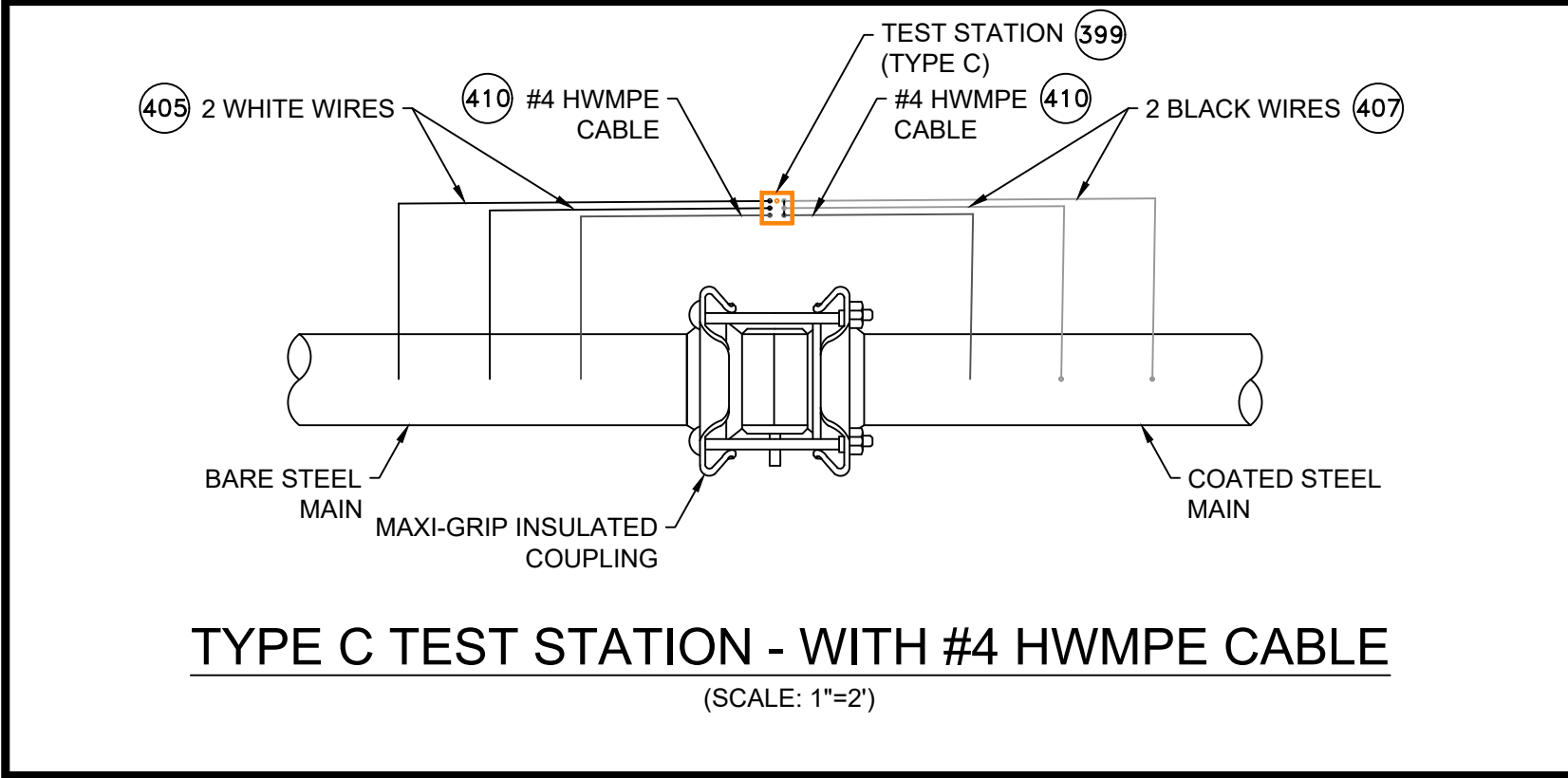
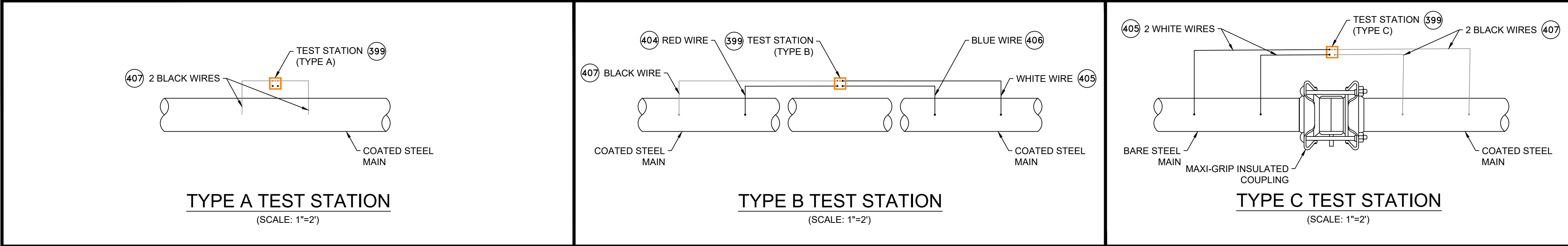
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EXPIRATION:
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FIELD VERIFY DIMENSIONS
PRIOR TO PIPE FABRICATION



| CATHODIC PROTECTION BILL OF MATERIALS | | | | |
|---------------------------------------|-----|------|------------|--|
| ITEM | QTY | SIZE | MAXIMO NO. | DESCRIPTION |
| 396 | X | EA | 577776 | ANODE,BAG, 17 LB NET, HIGH POTENTIAL MAGNESIUM, W/ 10 FT #10 AWG TW ORANGE LEAD WIRE, PACKED IN CARDBOARD BOX 42 LB TOTAL WEIGHT |
| 397 | X | EA | 517626 | CONNECTOR, SPLIT BOLT, 12 SOLID - 10 STRANDED, CU TO CU, HOUSING (COVER) MATE IN 590389, |
| 398 | X | EA | 590389 | HOUSING, 50 V MAX, 10 AWG MAX, FOR PROTECTING TRACER WIRE SPLICES, USED WITH CONNECTOR IN 517626. 10/BAG |
| 399 | X | EA | 590871 | BOX VALVE, TEST STATION, CP TEST #178, 10-1/4 IN DIA, LID, 8-3/8 IN I.D. 16 IN H., ASTM A48 CL 25 CAST IRON, FOR OFF-ROAD USE ONLY |
| 400 | X | BOX | 508567 | POWDER, CARTRIDGE, TYPE IS F-33, ALLOY , CAP COLOR CLEAR, 15 GM CHARGE, 20/PAC, FOR STEEL PIPE |
| 401 | X | EA | 559168 | SLEEVE,ELECTRICAL, #14 TO 10 AWG, W/ THERMITE WELDER, FOR CATHODIC PROTECTION |
| 402 | X | ES | 584045 | EDI CONCENTRIC COUPON ASSEMBLY INCLUDING UCB-ZIN-LW010, 10 FT OF CABLE |
| 403 | X | ES | 603126 | EDI CONCENTRIC COUPON ASSEMBLY INCLUDING UCB-ZIN-LW025, 25 FT OF CABLE |
| 404 | X | ROLL | 603140 | WIRE,ELECTRICAL, THHN, 1/C, #10 AWG, STRANDED, RED, INSULATED, CU, 500 FT SPOOL, WIRE |
| 405 | X | ROLL | 578415 | WIRE,ELECTRICAL, THHN, 1/C, #10 AWG, STRANDED, WHITE, INSULATED, CU, 500 FT SPOOL, WIRE |
| 406 | X | ROLL | 603141 | WIRE,ELECTRICAL, THHN, 1/C, #10 AWG, STRANDED, BLUE INSULATED, CU, 500 FT SPOOL, WIRE |
| 407 | X | ROLL | 603139 | WIRE,ELECTRICAL, THHN, 1/C, #10 AWG, STRANDED, BLACK, INSULATED, CU, 500 FT SPOOL,WIRE |
| 408 | X | EA | 500804 | WELDER,THERMITE, THERMITE, FOR GAS PIPE, #12 CABLE,HORIZONTAL STEEL PIPE 4 IN AND LARGER DIAMETER |
| 409 | X | EA | 500805 | WELDER,THERMITE, THERMITE, FOR GAS PIPE, #12 CABLE, HORIZONTAL STEEL PIPE 3/4 - 3-1/2 IN DIAMETER |
| 410 | X | FT | 513850 | CABLE, INSULATED, CATHODIC PROTECTION, 1/C, #4 AWG, 7 STR, 600 V, BLACK, HMWPE, CU, 1000 FT ROLLS |

- NOTES:**
- ALL TEST STATION BOXES SHOULD BE INSTALLED IN A SAFE LOCATION WHERE ONE INDIVIDUAL CAN SAFELY OPEN AND ACCESS THE TEST WIRES. ALL TEST WIRES INSIDE THE BOX SHOULD HAVE ENOUGH SLACK ON THE WIRES SO THEY CAN EXTEND A MINIMUM OF 12" ABOVE GRADE.
 - FOR TYPE A TEST STATIONS, THE TWO WIRES SHOULD BE THERMITE WELDED TO THE COATED STEEL MAIN AND BE THE SAME COLOR. (COUPONS COULD BE ADDED TO THE TEST STATION TYPE).
 - FOR TYPE B TEST STATIONS, EACH OF THE FOUR WIRES SHOULD BE A DIFFERENT COLOR AND DOCUMENTED
 - FOR TYPE C TEST STATIONS, THE WIRES SHOULD BE THE SAME COLOR ON EACH SIDE OF THE INSULATED COUPLING. (ANODES AND/OR COUPONS COULD BE ADDED TO THIS TEST STATION TYPE).
 - FOR TYPE D TEST STATIONS WHICH ARE AT A CASING, WHITE WIRES ARE NORMALLY INSTALLED ON THE STEEL CASING AND BLACK WIRES ON INSTALLED ON THE CARRIER PIPE. (ANODES AND/OR COUPONS COULD BE ADDED TO THIS TEST STATION TYPE).
 - FOR TYPE M TEST STATIONS, THE TWO WIRES THERMITE WELDED TO THE CARRIER PIPE SHOULD BE THE SAME COLOR WIRE. THERE IS ALSO MAGNESIUM ANODE(S) WIRE(S) LOCATED INSIDE THE TEST STATION BOX.THE WIRE COLOR (TYPICALLY ORANGE) FOR THE ANODES. IF THE ANODE WIRES ARE SPLICED TO A COMMON ANODE HEADER CABLE, THE ANODE HEADER CABLE SHOULD BE A (WHITE OR RED) DIFFERENT COLOR WIRE THAN THE WIRE THAT WAS THERMITE WELDED TO THE CARRIER PIPE. AT A TYPE M TEST STATION, NO MAGNESIUM ANODES SHOULD BE DIRECTLY THERMITE WELDED TO THE CARRIER PIPE OR IN CONTACT WITH THE CARRIER PIPE. THE ANODE HEADER WIRE OR INDIVIDUAL ANODE WIRES SHOULD TERMINATE INSIDE THE TEST STATION BOX. ANODES SHOULD BE SPACED A MINIMUM OF 5' ON CENTER FROM EACH OTHER AND A MINIMUM OF 12" AWAY AND BELOW THE BOTTOM OF THE STEEL MAIN.
 - IF COUPONS ARE TO BE INSTALLED , FIRST REMOVE THE PROTECTIVE LABEL COVERING THE STEEL COUPON AND THE RED STICKERS COVERING EACH SENSING PORT. CLEAN THE ENTIRE STEEL COUPON SURFACE WITH ALCOHOL TO REMOVE THE CORROSION INHIBITOR .PLACE THE COUPON ASSEMBLY APPROXIMATELY 12" FROM THE GAS MAIN BEING MONITORED WITH THE SENSING PORTS FACING THE GAS MAIN. THE COUPON ASSEMBLY SHOULD BE LOCATED ADJACENT TO THE BOTTOM PORTION OF THE GAS MAIN, ANYWHERE BETWEEN 3 O'CLOCK AND 9 O'CLOCK. THE SOIL BETWEEN THE COUPON AND THE MAIN SHOULD BE WELL COMPACTED AND CONTAIN NO ROCKS LARGER THAN A CENTIMETER IN DIAMETER OR FOREIGN MATERIAL.

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

*THESE DETAILS WERE PROVIDED BY EVERSOURCE FOR
TYPICAL INSTALLATIONS AND ARE FOR REFERENCE USE ONLY.

ISSUED FOR
CONSTRUCTION
09/14/2021

SEALED BY:
ERIC VINAI
KUMAR
No. 54771
REGISTERED
PROFESSIONAL ENGINEER
SIGNATURE

SEALED ON:
09/15/2021
LICENSE
EXPIRATION:
06/30/2022

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FIELD VERIFY DIMENSIONS
PRIOR TO PIPE FABRICATION

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| 0 | ISSUED FOR CONSTRUCTION | 09/14/2021 | ZS/AB/EK |
| NO. | DESCRIPTION | DATE | DW/CK/AP |
| REVISION STATUS | | | |
| EVERSOURCE ENERGY | | | |
| HUDSON STREET, SEYMOUR STREET, AND BAYVIEW STREET MAIN RELAYS NEW BEDFORD, MASSACHUSETTS | | | |
| STANDARD CORROSION DETAILS | | | |
| SCALE: AS NOTED | | SHEET 19 OF 19 | |
| DRAWN BY / DATE WS 04/01/2021 | CHECKED BY / DATE AB 09/14/2021 | SHEET NUMBER MA-NEB-21-PIP-063-19 | REV. NO. 0 |
| APPROVED BY / DATE EK 09/14/2021 | MANEB21PIP063R0 | | |