

# EVERS URCE ENERGY

ROCKDALE AVENUE AND MAPLE STREET MAIN RELAYS INSTALLATION OF 1775' OF 4" PH LIP AND 2025' OF 6" PH LIP GAS MAIN

NEW BEDFORD, MASSACHUSETTS

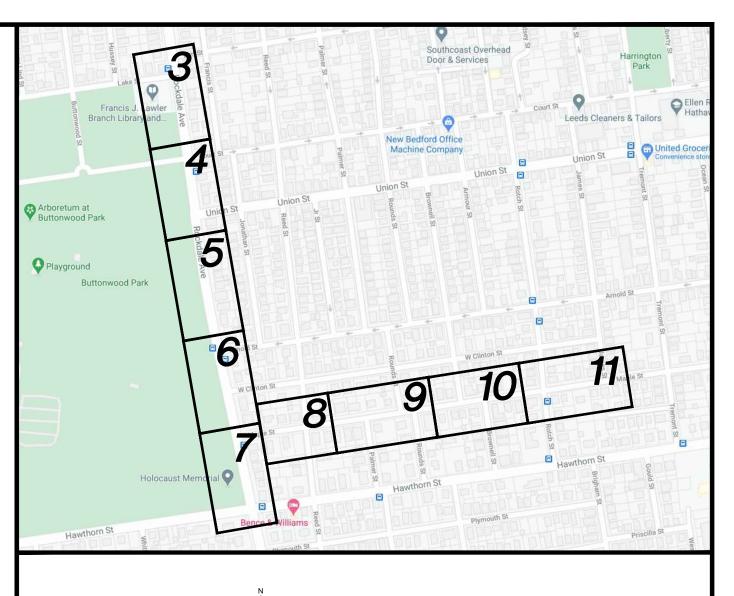
ENE PROJECT #: 2005881.36

**EVERSOURCE PROJECT #: 02273218** 

MAPLE STREET GSEP (BROWNELL TO ROCKDALE): 4345776

MAPLE STREET SI (BROWNELL TO #214): 4677696 ROCKDALE AVE (LAKE TO ARNOLD): 02273218

ROCKDALE AVE (ARNOLD TO HAWTHORNE): 1455398





SITE PLAN, LOCUS PLAN AND SHEET INDEX

LOCATION A - PHASE 1, 2 AND SCHEDULE OF MATERIALS

LOCATION B - PHASE 1, 2 AND SCHEDULE OF MATERIALS

LOCATION C - PHASE 1, 2 AND SCHEDULE OF MATERIALS

LOCATION D - PHASE 1, 2 AND SCHEDULE OF MATERIALS

LOCATION E - PHASE 1, 2 AND SCHEDULE OF MATERIALS

LOCATION G - PHASE 1, 2 AND SCHEDULE OF MATERIALS

LOCATION H - PHASE 1, 2 AND SCHEDULE OF MATERIALS

LOCATION I - PHASE 1, 2 AND SCHEDULE OF MATERIALS

LOCATION J - PHASE 1, 2 AND SCHEDULE OF MATERIALS

LOCATION K - PHASE 1, 2 AND SCHEDULE OF MATERIALS

LOCATION L - PHASE 1, 2 AND SCHEDULE OF MATERIALS

LOCATION M - PHASE 1, 2 AND SCHEDULE OF MATERIALS

LOCATION N - PHASE 1, 2 AND SCHEDULE OF MATERIALS

LOCATION O - PHASE 1, 2 AND SCHEDULE OF MATERIALS

LOCATION P - PHASE 1, 2 AND SCHEDULE OF MATERIALS

STANDARD CORROSION DETAILS

LOCATION F AND SCHEDULE OF MATERIALS

**INSTALLATION PLAN** 

INSTALLATION PLAN

INSTALLATION PLAN

**INSTALLATION PLAN** 

**INSTALLATION PLAN** 

INSTALLATION PLAN

15

18

20

22

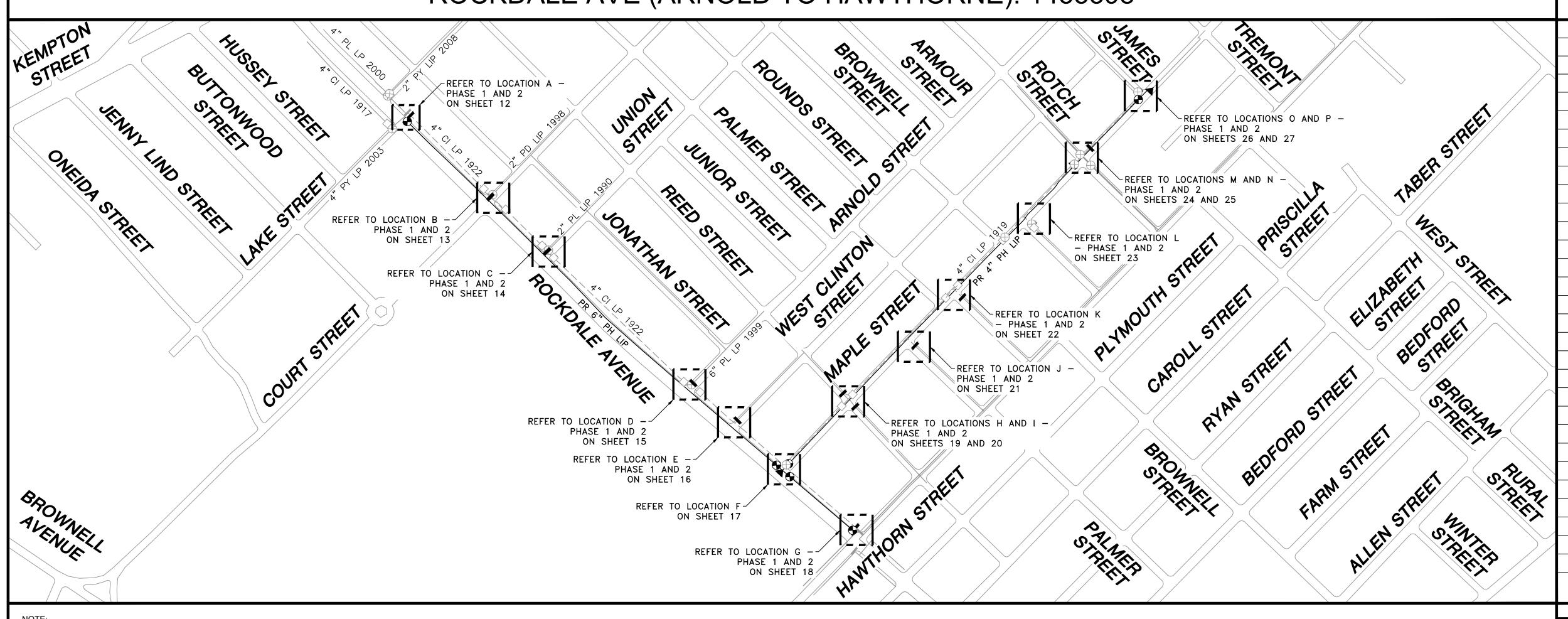
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NOTE:
EXISTING CONDITIONS SHOWN ARE BASED ON GIS, AERIAL AND AVAILABLE RECORD DATA,
NO FIELD SURVEY WAS PERFORMED. CONTRACTOR TO VERIFY EXISTING CONDITIONS AS
NEEDED IN THE FIELD. PROPOSED MAIN ALIGNMENT AND OFFSETS ARE APPROXIMATE.

SITE PLAN

NEW BEDFORD, MASSACHUSETTS

(SCALE: 1"=200')
(DO NOT SCALE FROM DRAWINGS)

ISSUED FOR

**REVIEW** 

03/15/2021

SEALED BY:

SIGNATURE

SEALED ON:	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.	FIELD VERIFY DIMENSIONS
LICENSE EXPIRATION:	<b>EN</b> @ngineering	PRIOR TO PIPE FABRICATION
	29 BARTLETT STREET MARLBOROUGH, MA 01752 TEL. (630) 353-4000 FAX (630) 535-7777 WWW.ENENGINEERING.COM	

A ISSUED FOR REVIEW

NO. DESCRIPTION

REVISION STATUS

FVERSION STATUS

EVERS URCE ENERGY

ROCKDALE AVENUE AND MAPLE STREET MAIN RELAYS
NEW BEDFORD, MASSACHUSETTS
SITE PLAN, LOCUS PLAN AND SHEET INDEX

 SCALE: NOT TO SCALE

 DRAWN BY / DATE LR 10/15/2020
 CHECKED BY / DATE AB 03/15/2021
 SHEET NUMBER REV. NO. BHEET NUMBER
 REV. NO. AB 03/15/2021

 APPROVED BY / DATE APPROVED BY / DATE

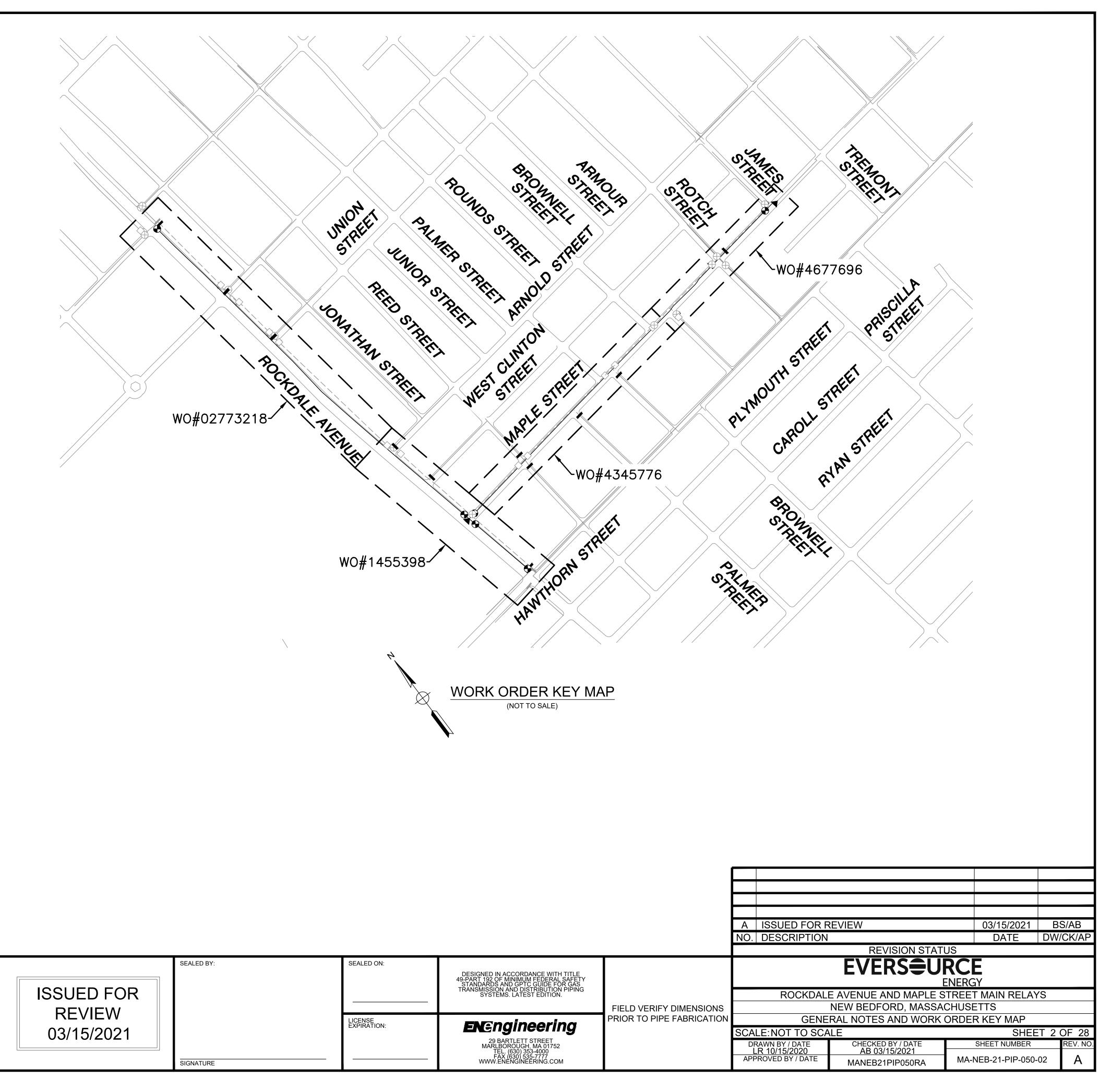
#### **GENERAL NOTES**

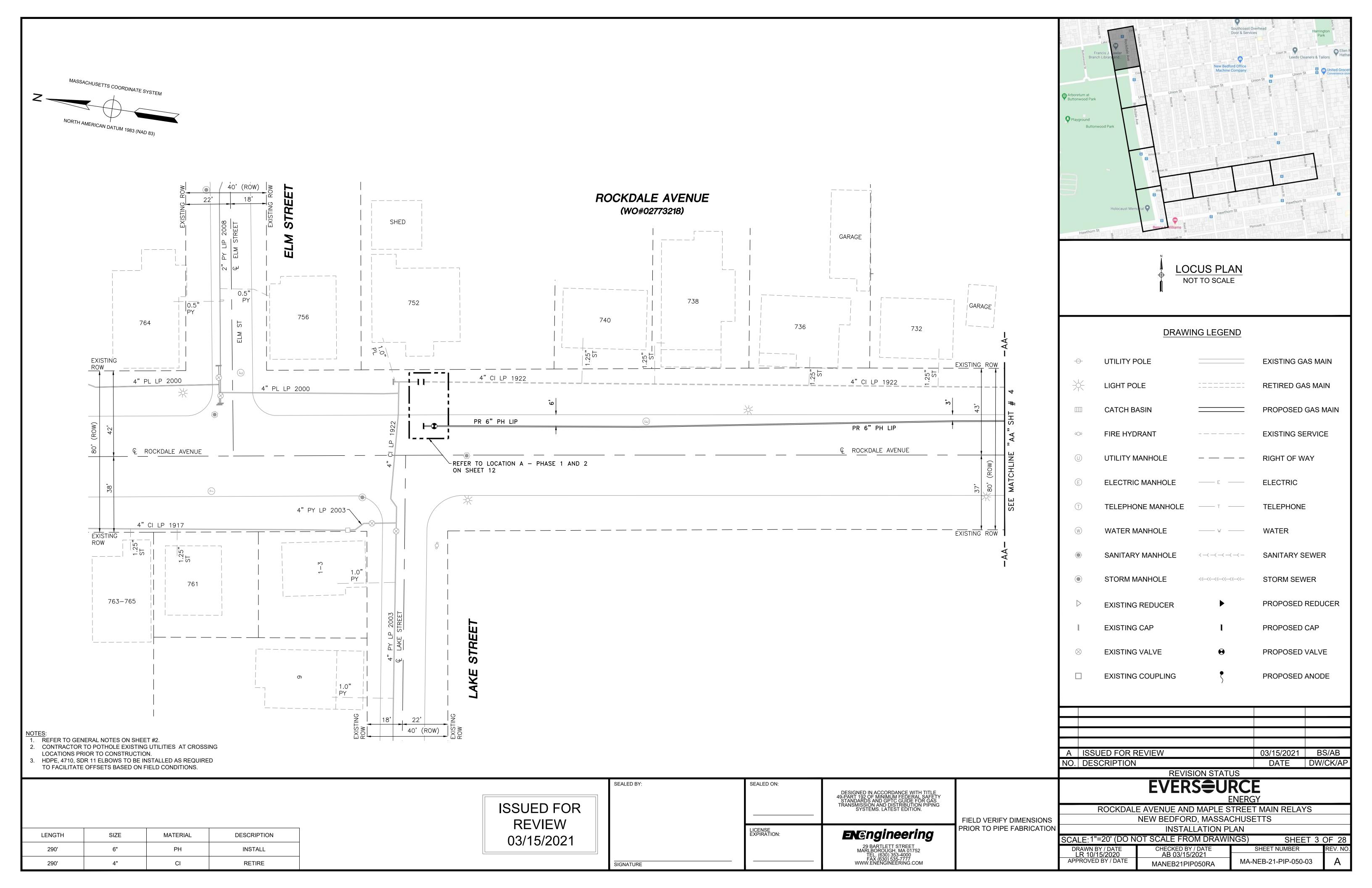
- IF ANY OF THE FOLLOWING OCCUR A DRAWING REVISION IS REQUIRED AND MUST BE APPROVED AND/OR STAMPED BY THE ENGINEER OF RECORD. CHANGES CAN BE APPROVED AND/OR STAMPED BY A PROJECT ENGINEER, BUT THE ENGINEER OF RECORD MUST BE INFORMED.
  - A. IF THE TIE IN POINT MOVES TO A DIFFERENT SEGMENT OF PIPE THAN SHOWN
  - B. IF A CHANGE IN THE LOCATION OF VALVES IS REQUIRED
  - FIGURE 15 ANY CHANGE TO WHAT IS SHOWN ON THE DRAWING WITHIN 50 FT OF A
  - PRESSURE REGULATING STATION, DISTRICT REGULATOR, OR GATE STATION

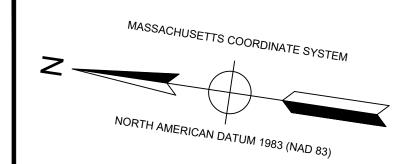
    D. IF A CHANGE IN PIPE SIZE, MATERIAL, FITTINGS, OR WALL THICKNESS IS REQUIRED.
- 2. MINOR CHANGES SUCH AS OFFSETS MAY NOT REQUIRE DRAWING CHANGES.
- 3. EXCAVATOR SHALL CALL DIGSAFE/CALL BEFORE YOU DIG (DIAL 811) AT LEAST 72 HOURS PRIOR TO CONSTRUCTION. SATURDAYS, SUNDAYS, AND HOLIDAYS ARE EXCLUDED FROM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

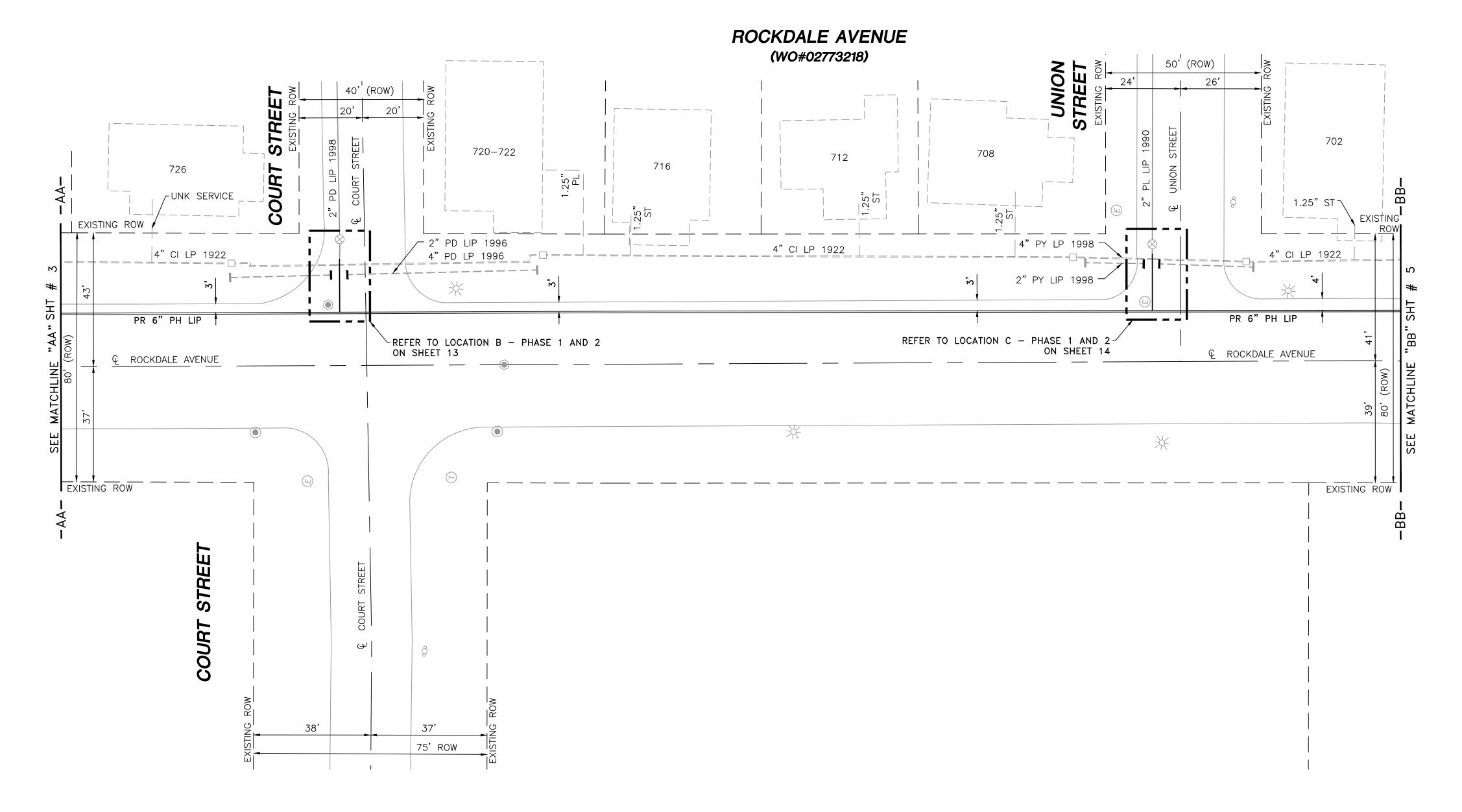
LP = 14" W.C. LIP = 35 PSIG IP = 60 PSIG HP = 90 PSIG

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













DRAWING LEGEND						
$\rightarrow$	UTILITY POLE		EXISTING GAS MAIN			
*	LIGHT POLE	=======	RETIRED GAS MAIN			
	CATCH BASIN		PROPOSED GAS MAIN			
0○0	FIRE HYDRANT		EXISTING SERVICE			
$\bigcirc$	UTILITY MANHOLE	_ — — –	RIGHT OF WAY			
E	ELECTRIC MANHOLE	—— Е ——	ELECTRIC			
	TELEPHONE MANHOLE	—— т	TELEPHONE			
W	WATER MANHOLE	W	WATER			
	SANITARY MANHOLE	<-<<-	SANITARY SEWER			
	STORM MANHOLE	<	STORM SEWER			
$\triangleright$	EXISTING REDUCER	•	PROPOSED REDUCER			
l	EXISTING CAP	1	PROPOSED CAP			
$\otimes$	EXISTING VALVE	•	PROPOSED VALVE			
	EXISTING COUPLING	\$	PROPOSED ANODE			

REFER TO GENERAL NOTES ON SHEET #2.

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

3. HDPE, 4710, SDR 11 ELBOWS TO BE INSTALLED AS REQUIRED TO FACILITATE OFFSETS BASED ON FIELD CONDITIONS.

LENGTH SIZE		MATERIAL	DESCRIPTION
35'	2"	PH	INSTALL
430'	6"	PH	INSTALL
60'	2"	PY	RETIRE
100'	2"	PD	RETIRE
55'	4"	PY	RETIRE
105'	4"	PD	RETIRE
275'	4"	CI	RETIRE

ISSUED FOR REVIEW 03/15/2021

SEALED BY:

SIGNATURE

SEALED ON: LICENSE EXPIRATION: **EN**Engineering 29 BARTLETT STREET MARLBOROUGH, MA 01752 TEL. (630) 353-4000 FAX (630) 535-7777 WWW.ENENGINEERING.COM

FIELD VERIFY DIMENSIONS PRIOR TO PIPE FABRICATION

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

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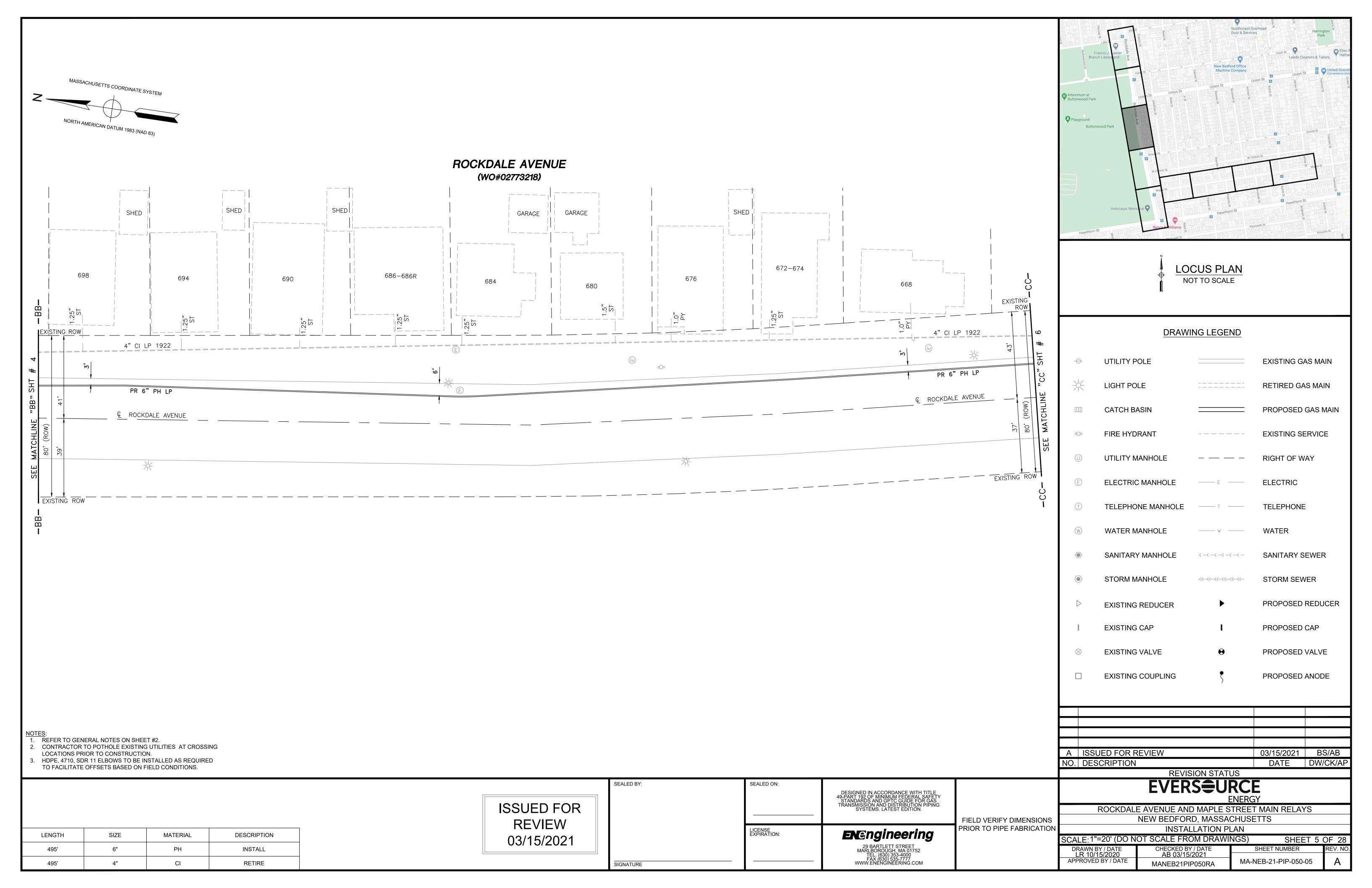
ROCKDALE AVENUE AND MAPLE STREET MAIN RELAYS NEW BEDFORD, MASSACHUSETTS INSTALLATION PLAN

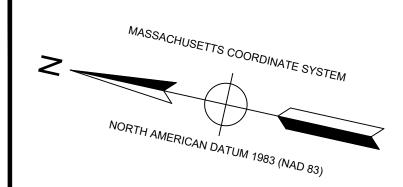
**REVISION STATUS** 

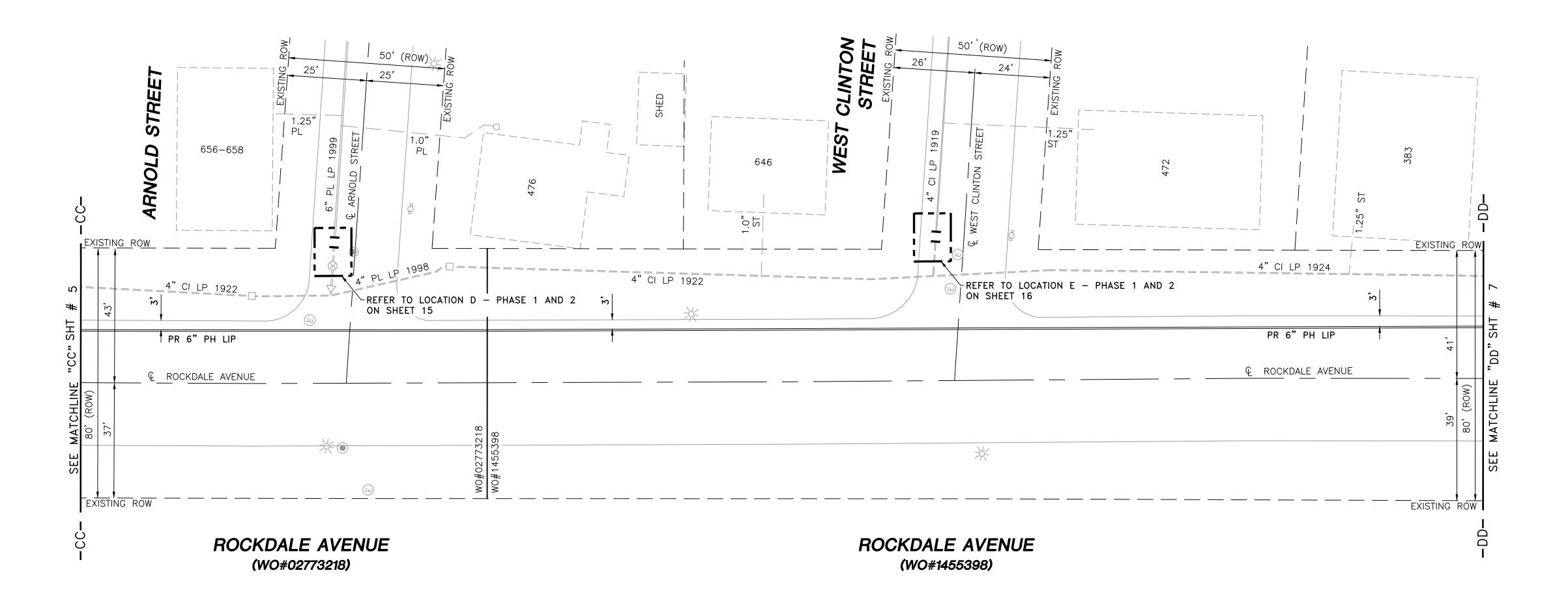
03/15/2021 BS/AB

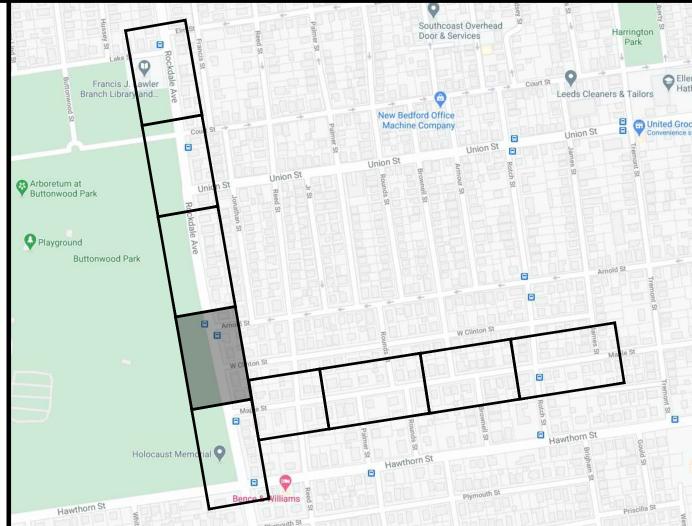
DATE DW/CK/AP

SCALE: 1"=20' (DO NOT SCALE FROM DRAWINGS) SHEET 4 OF 28 SHEET NUMBER MA-NEB-21-PIP-050-04 MANEB21PIP050RA









LOCUS PLAN NOT TO SCALE

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

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

ROCKDALE AVENUE AND MAPLE STREET MAIN RELAYS NEW BEDFORD, MASSACHUSETTS INSTALLATION PLAN

SCALE: 1"=20' (DO NOT SCALE FROM DRAWINGS) SHEET 6 OF 28 SHEET NUMBER MA-NEB-21-PIP-050-06 MANEB21PIP050RA

REFER TO GENERAL NOTES ON SHEET #2.

2. CONTRACTOR TO POTHOLE EXISTING UTILITIES AT CROSSING

LOCATIONS PRIOR TO CONSTRUCTION. 3. HDPE, 4710, SDR 11 ELBOWS TO BE INSTALLED AS REQUIRED TO FACILITATE OFFSETS BASED ON FIELD CONDITIONS.

LENGTH	SIZE	MATERIAL	DESCRIPTION
450'	6"	PH	INSTALL
65'	4"	PL	RETIRE
400'	4"	CI	RETIRE
15'	6"	PL	RETIRE

ISSUED FOR REVIEW 03/15/2021

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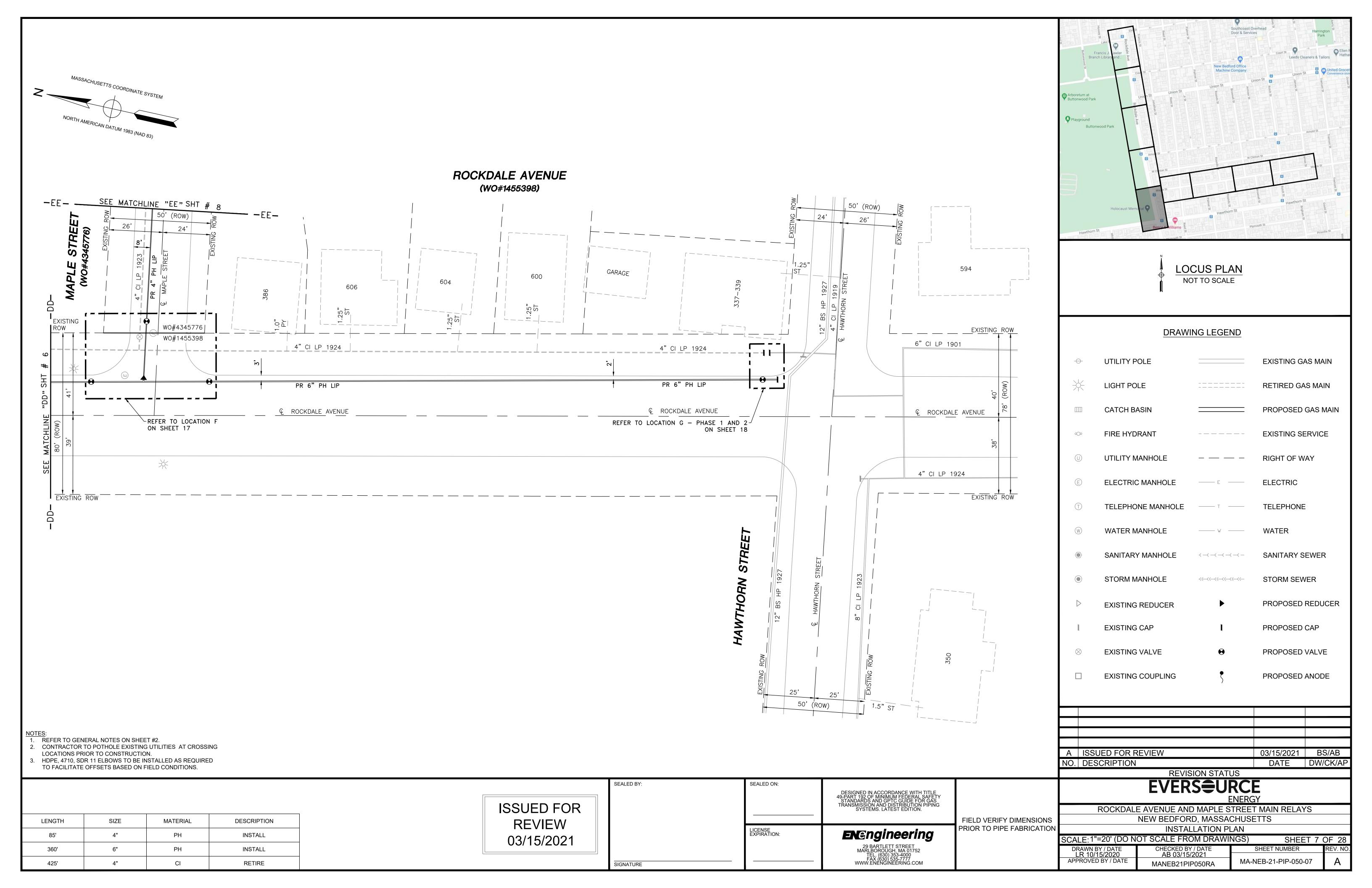
LICENSE EXPIRATION: SIGNATURE

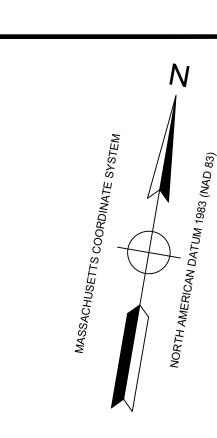
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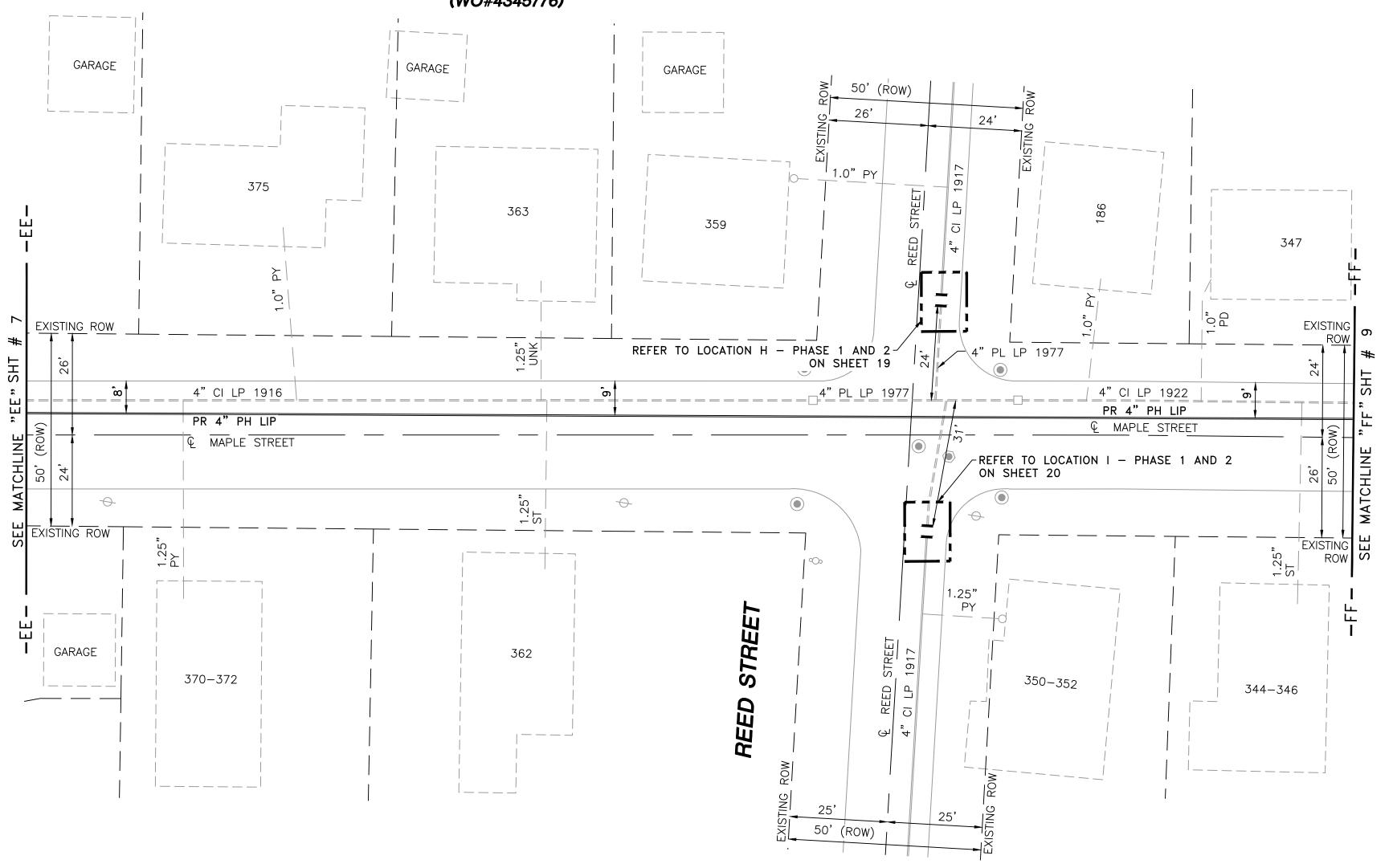
FIELD VERIFY DIMENSIONS

PRIOR TO PIPE FABRICATION





#### MAPLE STREET (WO#4345776)



NOTES:

- 1. REFER TO GENERAL NOTES ON SHEET #2.
- 2. CONTRACTOR TO POTHOLE EXISTING UTILITIES AT CROSSING LOCATIONS PRIOR TO CONSTRUCTION.
- 3. HDPE, 4710, SDR 11 ELBOWS TO BE INSTALLED AS REQUIRED TO FACILITATE OFFSETS BASED ON FIELD CONDITIONS.

LENGTH	SIZE	MATERIAL	DESCRIPTION
345'	4"	PH	INSTALL
115'	4"	PL	RETIRE
290'	4"	CI	RETIRE

ISSUED FOR REVIEW 03/15/2021 SEALED BY:

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SEALED ON:	DESIGNED IN ACCORDANCE WITH TITLE 49-PART 192 OF MINIMUM FEDERAL SAFETY STANDARDS AND GPTC GUIDE FOR GAS TRANSMISSION AND DISTRIBUTION PIPING SYSTEMS. LATEST EDITION.
LICENSE EXPIRATION:	ENENGINEERING  29 BARTLETT STREET  MARLBOROUGH, MA 01752  TEL. (630) 353-4000  FAX (630) 535-7777  WWW.ENENGINEERING.COM

FIELD VERIFY DIMENSIONS
PRIOR TO PIPE FABRICATION

A ISSUED FOR REVIEW

NO. DESCRIPTION

REVISION STATUS

EVERSEURCE
ENERGY

ROCKDALE AVENUE AND MAPLE STREET MAIN RELAYS
NEW BEDFORD, MASSACHUSETTS

INSTALLATION PLAN

SCALE: 1"=20' (DO NOT SCALE FROM DRAWINGS)

DRAWN BY / DATE
LR 10/15/2020

APPROVED BY / DATE
MANEB21PIP050RA

NASSACHUSETTS

INSTALLATION PLAN

SHEET 8 OF 28

REV. NO.
AB 03/15/2021

MA-NEB-21-PIP-050-08

A

LOCUS PLAN

NOT TO SCALE

DRAWING LEGEND

**EXISTING GAS MAIN** 

RETIRED GAS MAIN

PROPOSED GAS MAIN

EXISTING SERVICE

RIGHT OF WAY

**ELECTRIC** 

TELEPHONE

SANITARY SEWER

STORM SEWER

PROPOSED CAP

PROPOSED VALVE

PROPOSED ANODE

PROPOSED REDUCER

WATER

UTILITY POLE

LIGHT POLE

**CATCH BASIN** 

FIRE HYDRANT

**UTILITY MANHOLE** 

**ELECTRIC MANHOLE** 

TELEPHONE MANHOLE

WATER MANHOLE

STORM MANHOLE

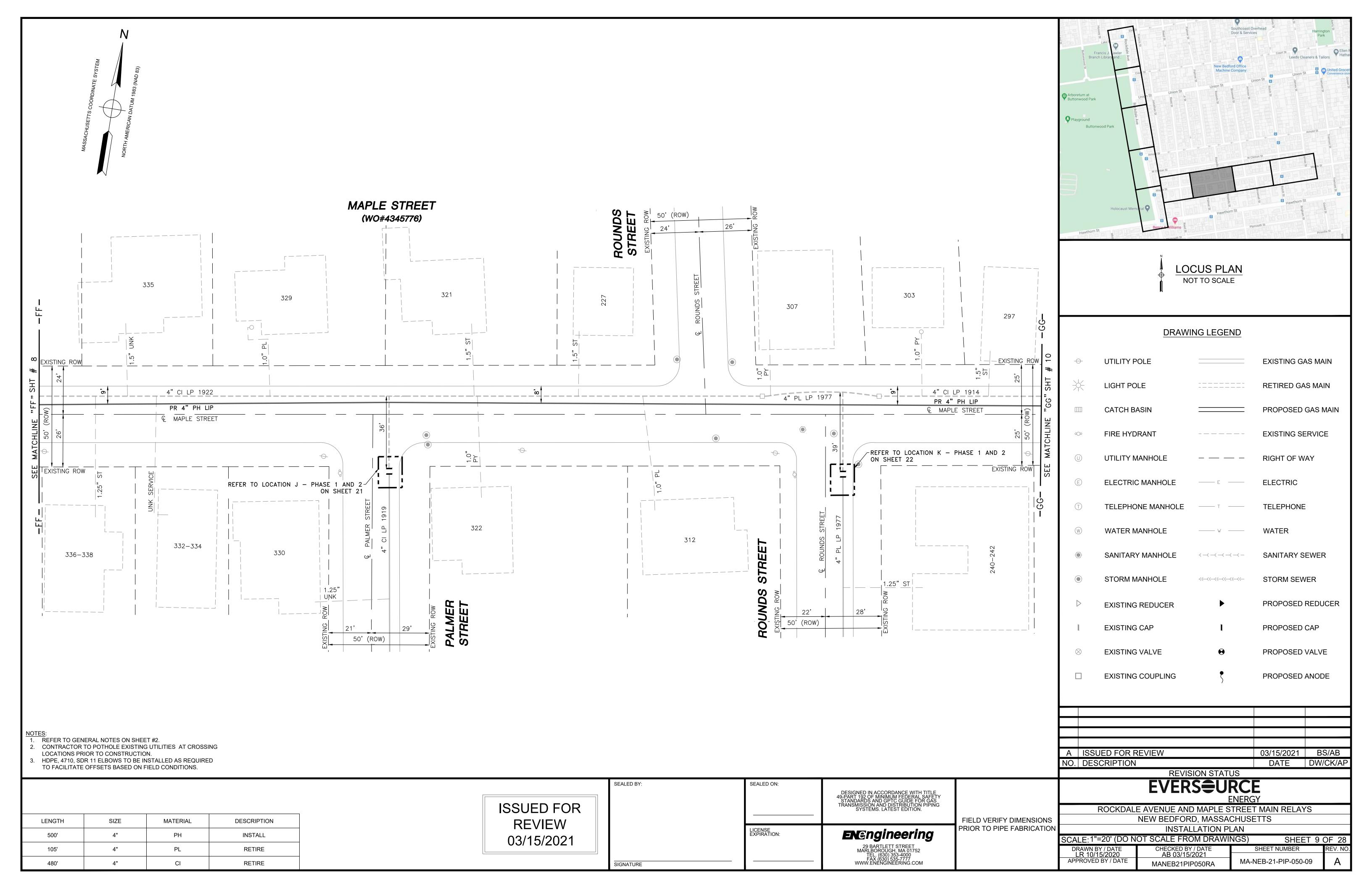
EXISTING REDUCER

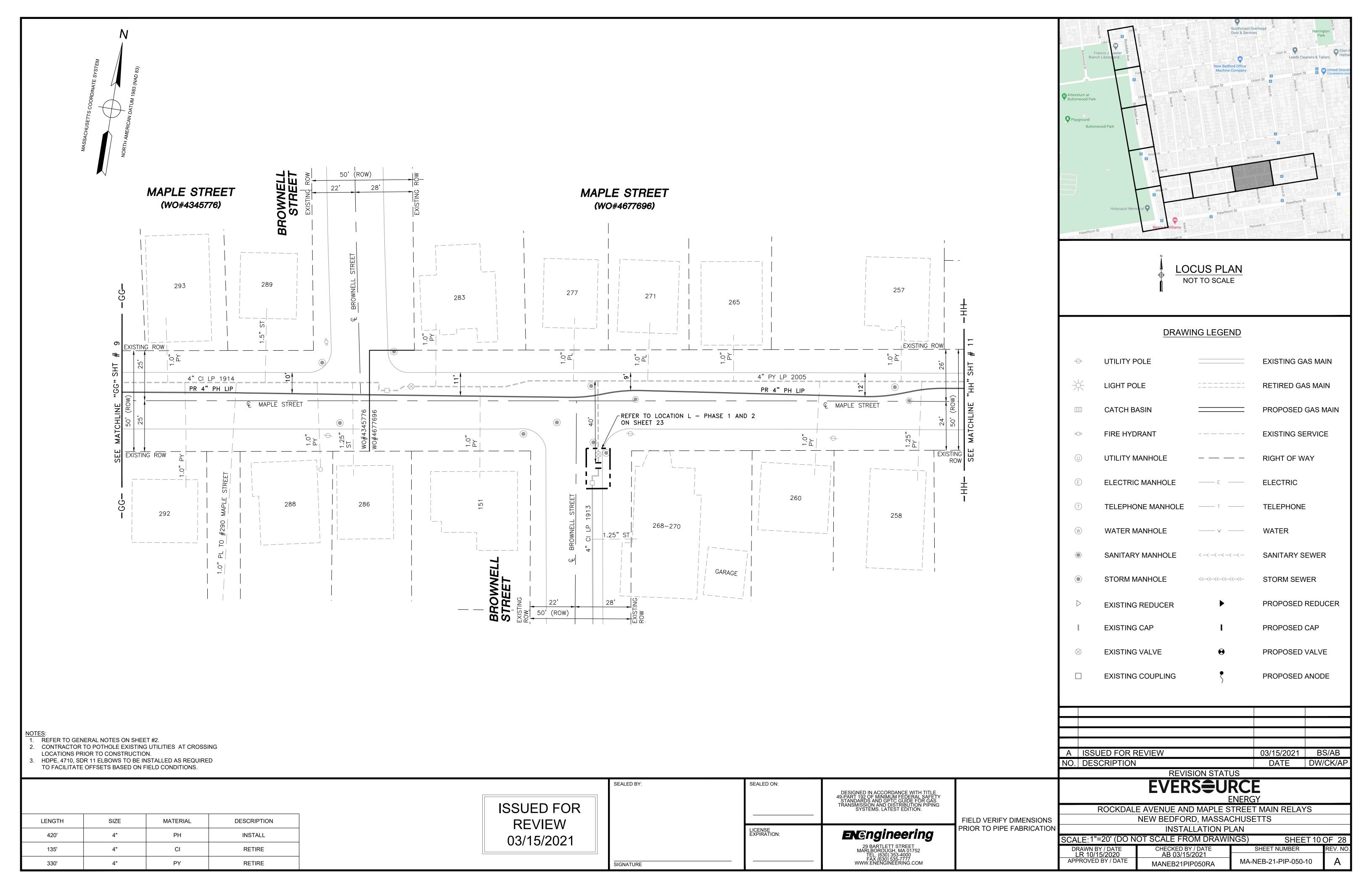
EXISTING CAP

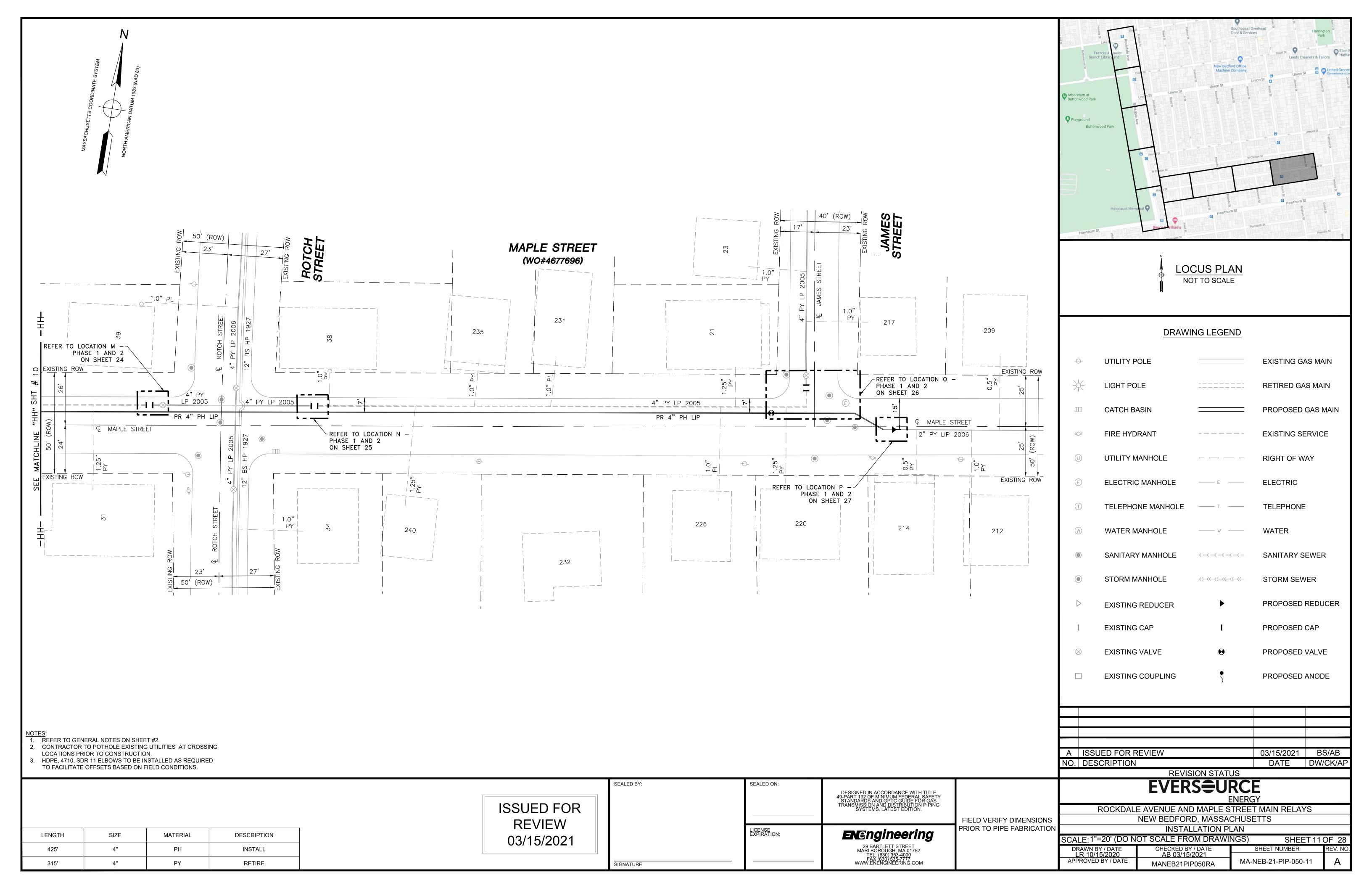
**EXISTING VALVE** 

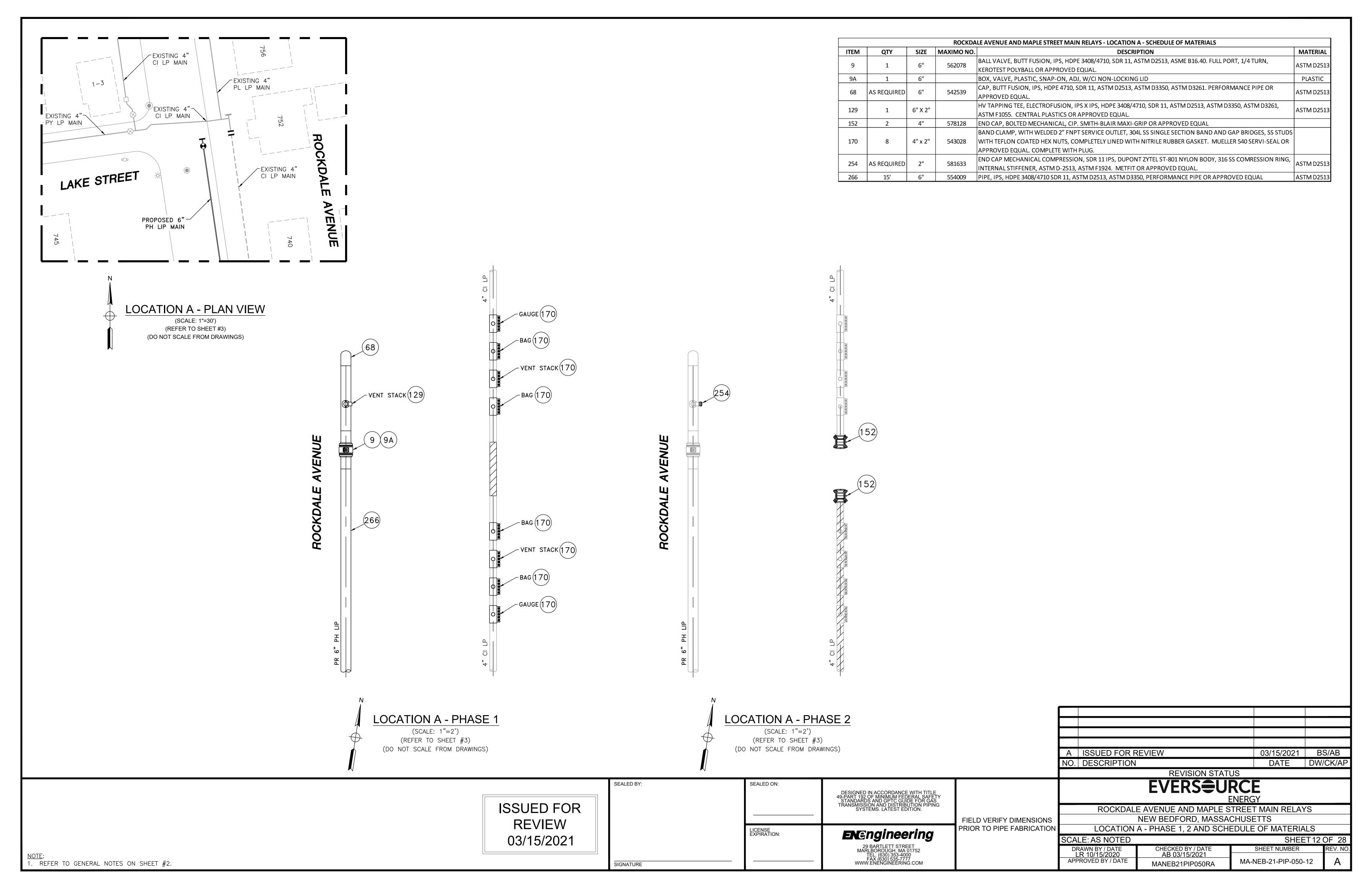
**EXISTING COUPLING** 

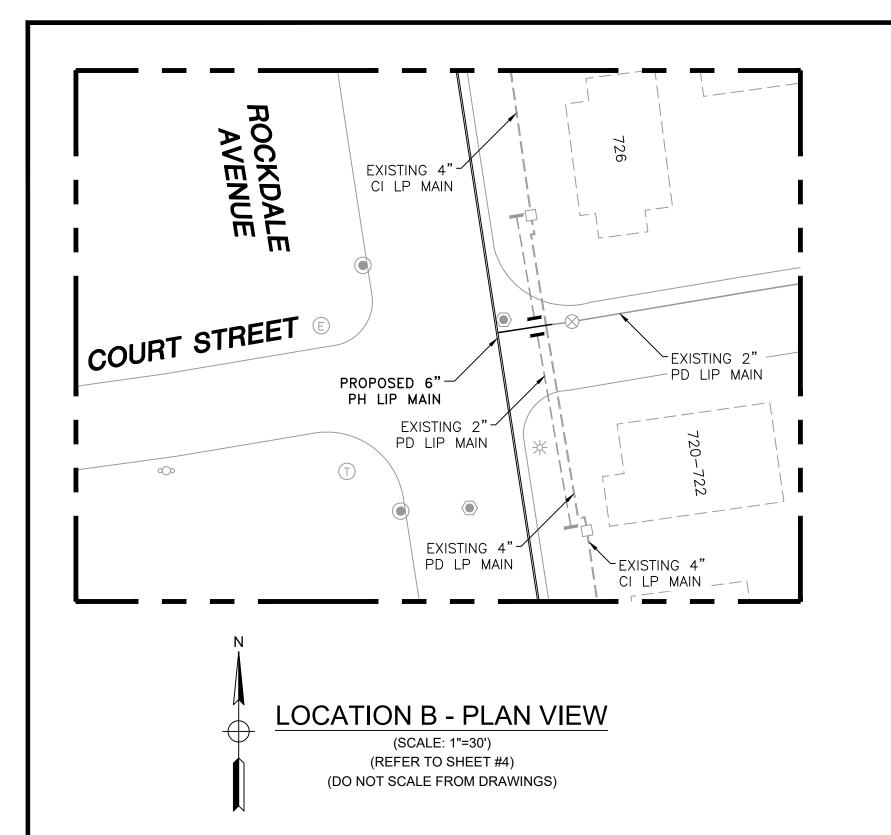
SANITARY MANHOLE



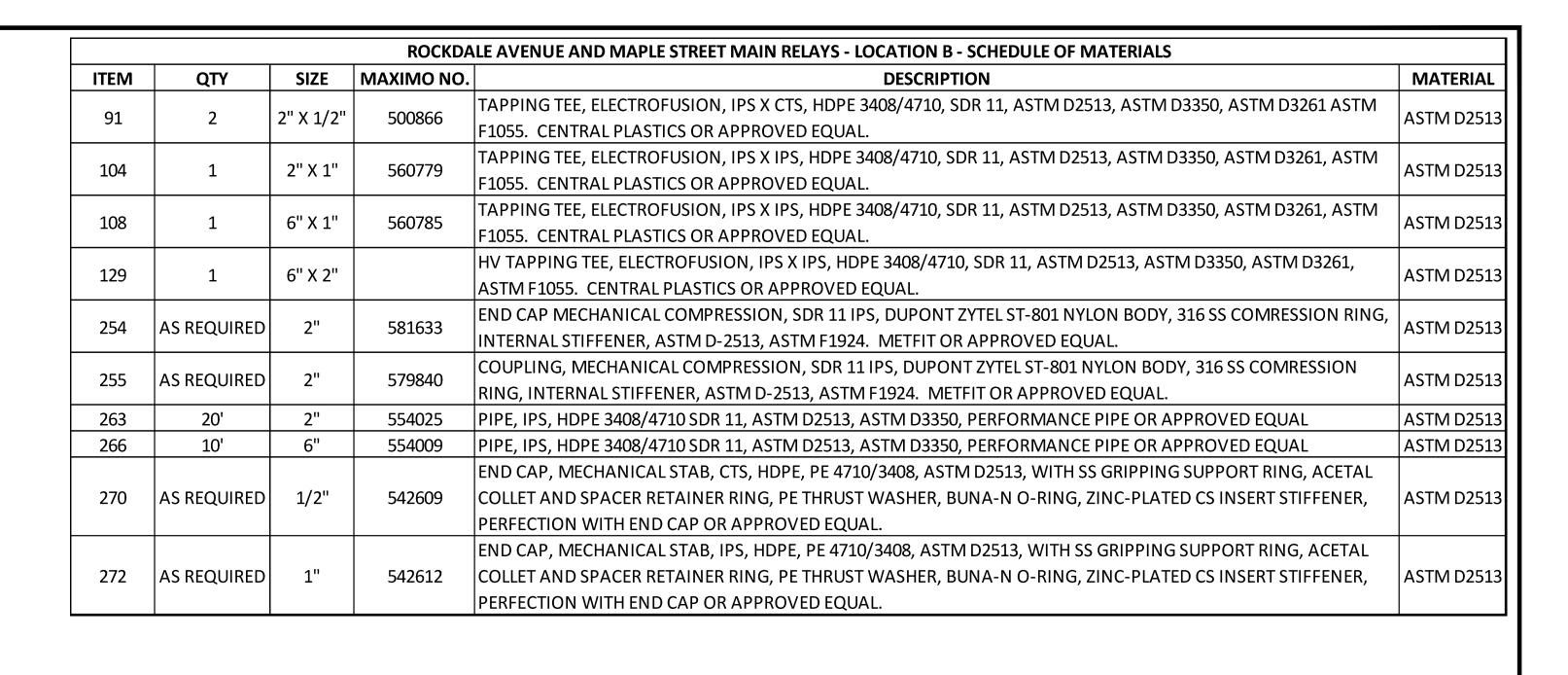


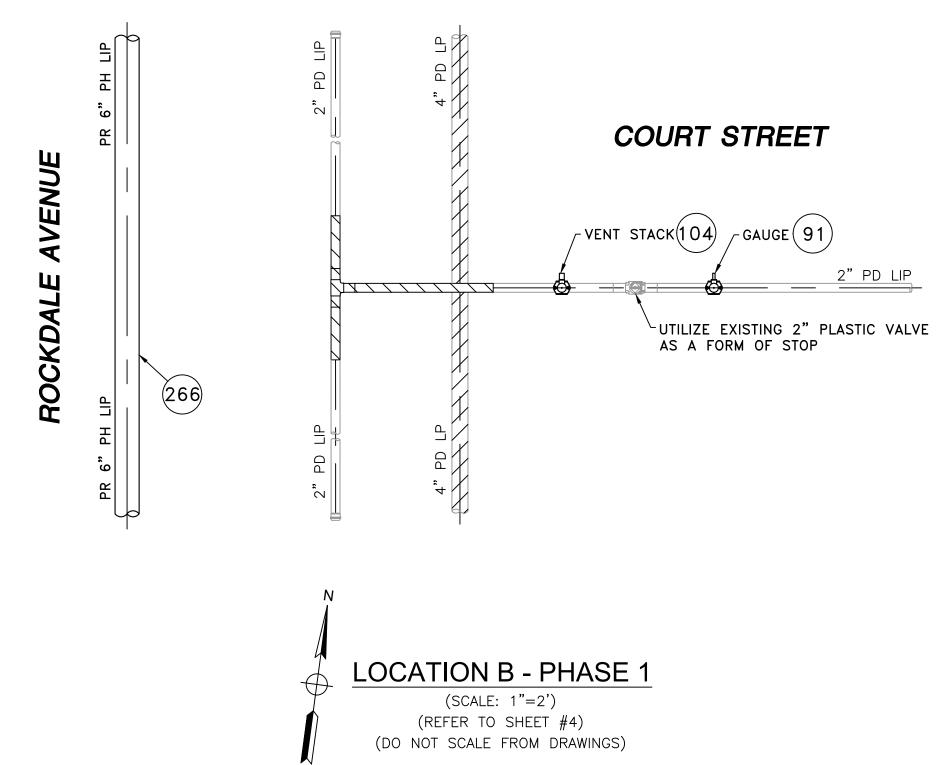


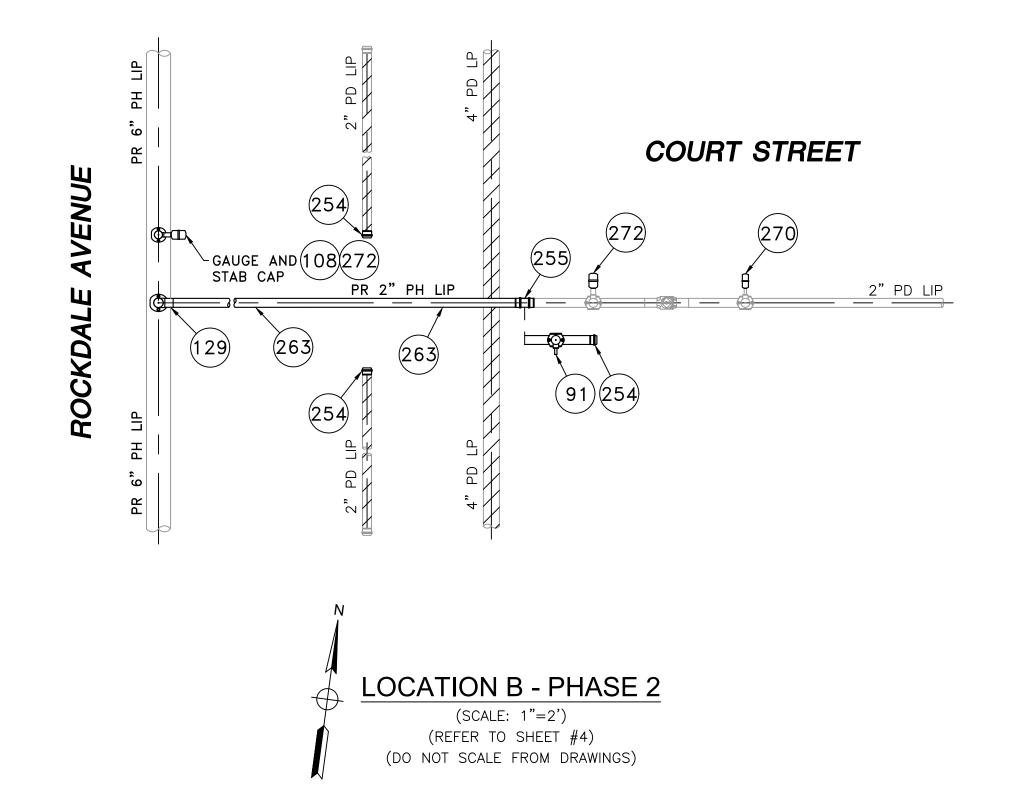




1. REFER TO GENERAL NOTES ON SHEET #2.







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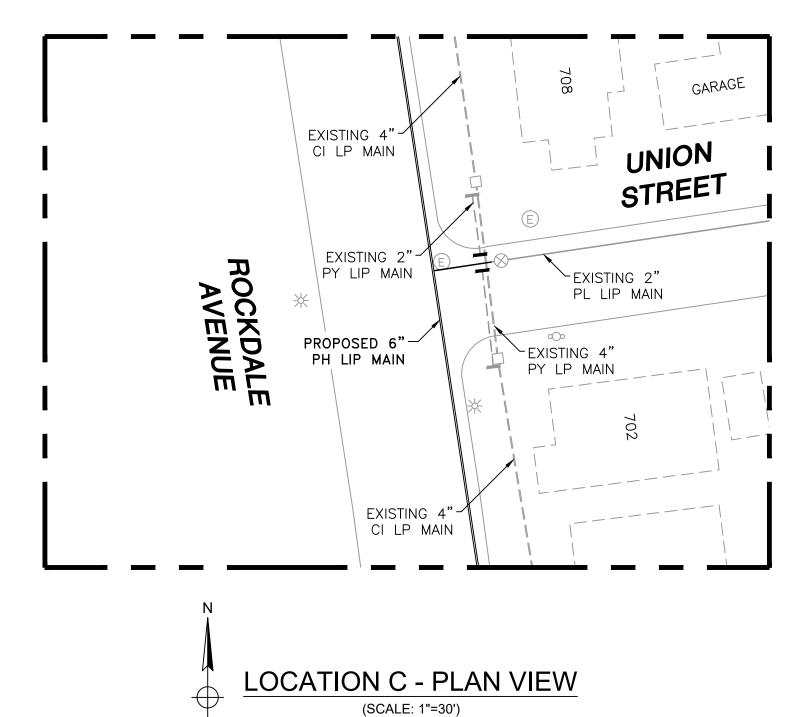
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FIELD VERIFY DIMENSIONS PRIOR TO PIPE FABRICATION ROCKDALE AVENUE AND MAPLE STREET MAIN RELAYS NEW BEDFORD, MASSACHUSETTS

LOCATION B - PHASE 1, 2 AND SCHEDULE OF MATERIALS SCALE: AS NOTED SHEET 13 OF 28 DRAWN BY / DATE LR 10/15/2020 APPROVED BY / DATE SHEET NUMBER MA-NEB-21-PIP-050-13 MANEB21PIP050RA

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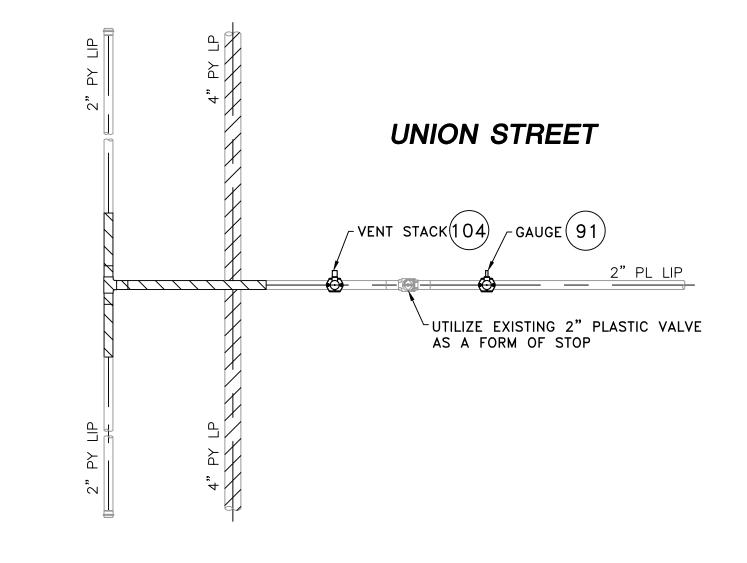
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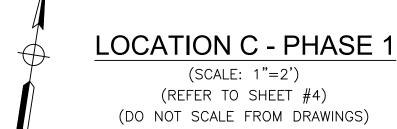


(SCALE: 1"=30') (REFER TO SHEET #4) (DO NOT SCALE FROM DRAWINGS)

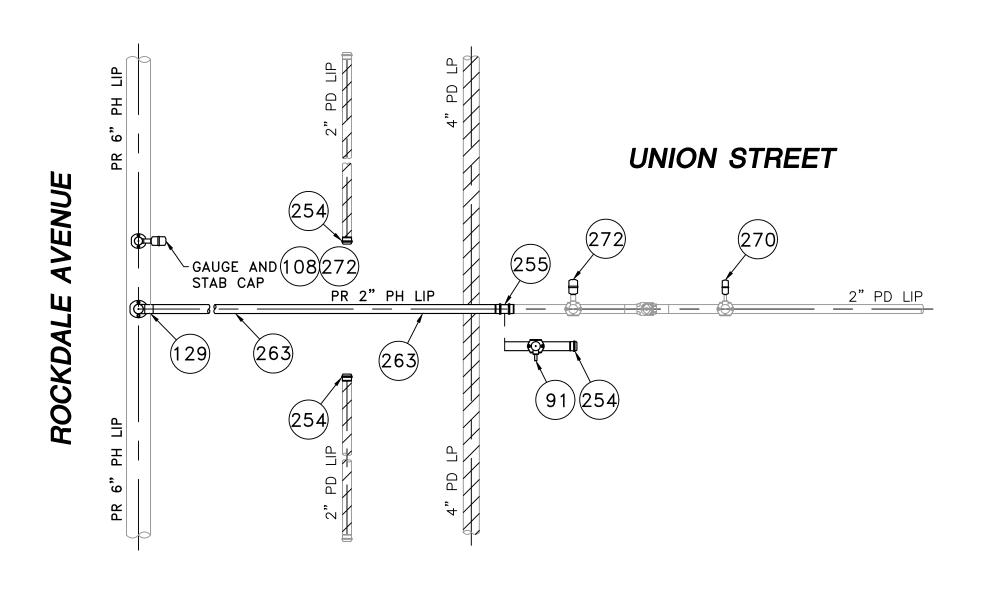
NOTE: 1. REFER TO GENERAL NOTES ON SHEET #2.

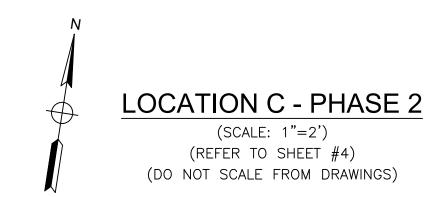
ROCK





	ROCKDALE AVENUE AND MAPLE STREET MAIN RELAYS - LOCATION C - SCHEDULE OF MATERIALS				
ITEM	QTY	SIZE	MAXIMO NO.	DESCRIPTION	MATERIAL
91	2	2" X 1/2"	500866	TAPPING TEE, ELECTROFUSION, IPS X CTS, HDPE 3408/4710, SDR 11, ASTM D2513, ASTM D3350, ASTM D3261 ASTM	ASTM D2513
91	2	Z X 1/Z	300800	F1055. CENTRAL PLASTICS OR APPROVED EQUAL.	A311VI D2313
104	1	2" X 1"	560779	TAPPING TEE, ELECTROFUSION, IPS X IPS, HDPE 3408/4710, SDR 11, ASTM D2513, ASTM D3350, ASTM D3261, ASTM	ASTM D2513
104		2 X I	300779	F1055. CENTRAL PLASTICS OR APPROVED EQUAL.	ASTIVI DZ313
108	1	6" Y 1"	560785	TAPPING TEE, ELECTROFUSION, IPS X IPS, HDPE 3408/4710, SDR 11, ASTM D2513, ASTM D3350, ASTM D3261, ASTM	ASTM D2513
100	108 1 6" X 1"		300783	F1055. CENTRAL PLASTICS OR APPROVED EQUAL.	ASTIVI DZ313
129	1	6" X 2"		HV TAPPING TEE, ELECTROFUSION, IPS X IPS, HDPE 3408/4710, SDR 11, ASTM D2513, ASTM D3350, ASTM D3261,	ASTM D2513
129		0 / 2		ASTM F1055. CENTRAL PLASTICS OR APPROVED EQUAL.	ASTIVI DZ313
254	254 AS REQUIRED 2"		581633	END CAP MECHANICAL COMPRESSION, SDR 11 IPS, DUPONT ZYTEL ST-801 NYLON BODY, 316 SS COMRESSION RING,	ASTM D2513
234	ASTREQUIRED		381033	INTERNAL STIFFENER, ASTM D-2513, ASTM F1924. METFIT OR APPROVED EQUAL.	ASTIVI DZ313
255	AS REQUIRED	2"	579840	COUPLING, MECHANICAL COMPRESSION, SDR 11 IPS, DUPONT ZYTEL ST-801 NYLON BODY, 316 SS COMRESSION	ASTM D2513
233	AS REQUIRED		373840	RING, INTERNAL STIFFENER, ASTM D-2513, ASTM F1924. METFIT OR APPROVED EQUAL.	A31101 D2313
263	20'	2"	554025	PIPE, IPS, HDPE 3408/4710 SDR 11, ASTM D2513, ASTM D3350, PERFORMANCE PIPE OR APPROVED EQUAL	ASTM D2513
266	10'	6"	554009	PIPE, IPS, HDPE 3408/4710 SDR 11, ASTM D2513, ASTM D3350, PERFORMANCE PIPE OR APPROVED EQUAL	ASTM D2513
				END CAP, MECHANICAL STAB, CTS, HDPE, PE 4710/3408, ASTM D2513, WITH SS GRIPPING SUPPORT RING, ACETAL	
270	AS REQUIRED	1/2"	542609	COLLET AND SPACER RETAINER RING, PE THRUST WASHER, BUNA-N O-RING, ZINC-PLATED CS INSERT STIFFENER,	ASTM D2513
				PERFECTION WITH END CAP OR APPROVED EQUAL.	
				END CAP, MECHANICAL STAB, IPS, HDPE, PE 4710/3408, ASTM D2513, WITH SS GRIPPING SUPPORT RING, ACETAL	
272	AS REQUIRED	1"	542612	COLLET AND SPACER RETAINER RING, PE THRUST WASHER, BUNA-N O-RING, ZINC-PLATED CS INSERT STIFFENER,	ASTM D2513
				PERFECTION WITH END CAP OR APPROVED EQUAL.	





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SEALED ON: LICENSE EXPIRATION: **EN**Engineering

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FIELD VERIFY DIMENSIONS PRIOR TO PIPE FABRICATION

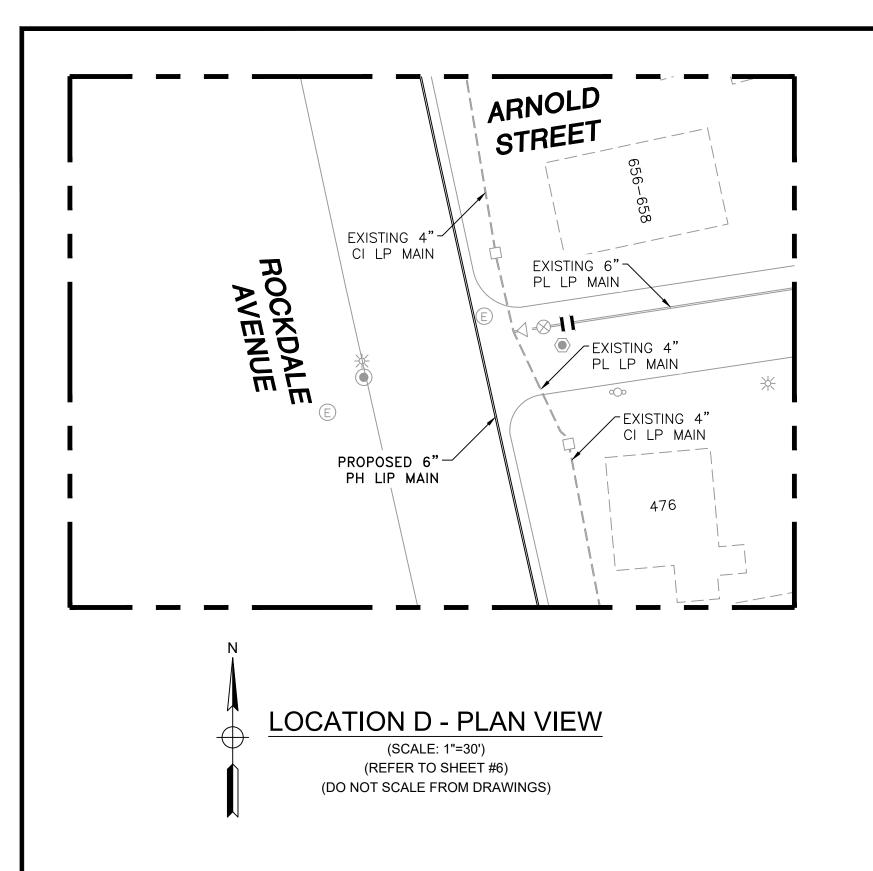
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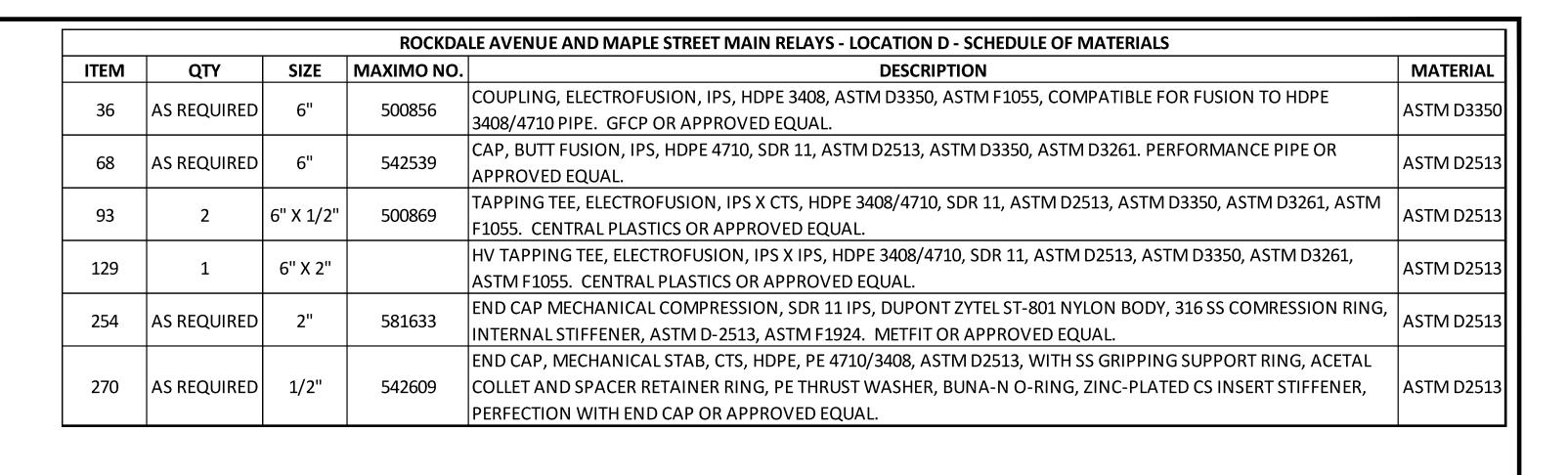
ROCKDALE AVENUE AND MAPLE STREET MAIN RELAYS NEW BEDFORD, MASSACHUSETTS LOCATION C - PHASE 1, 2 AND SCHEDULE OF MATERIALS

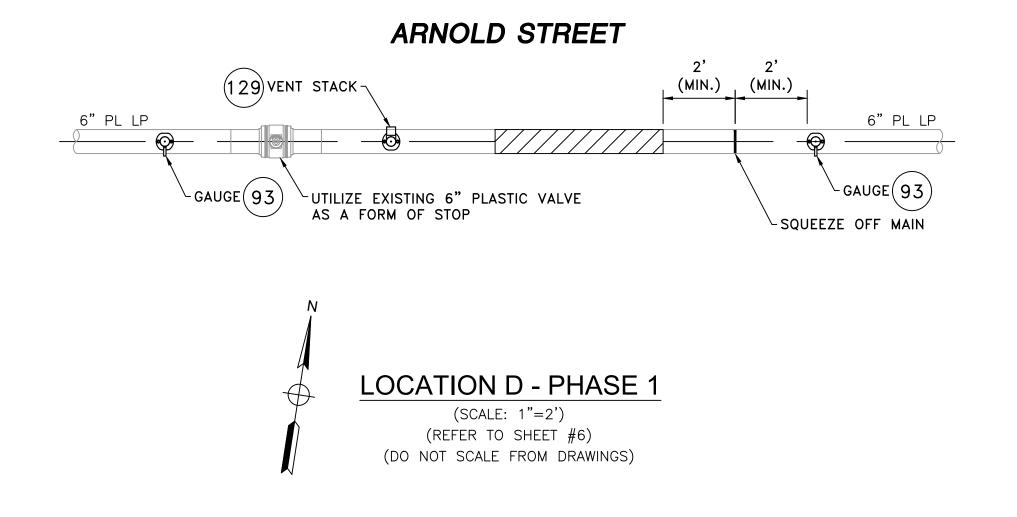
SCALE: AS NOTED SHEET 14 OF 28 SHEET NUMBER MA-NEB-21-PIP-050-14 MANEB21PIP050RA

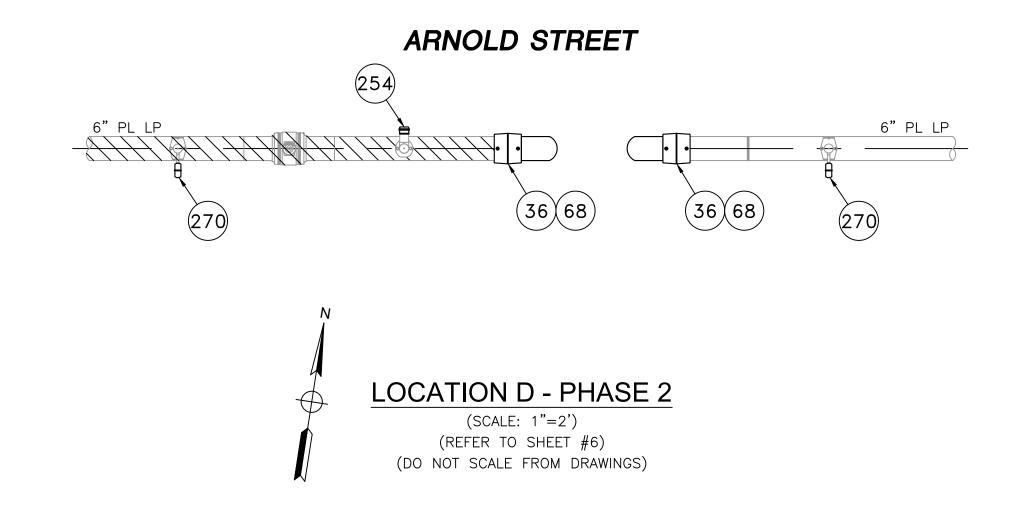
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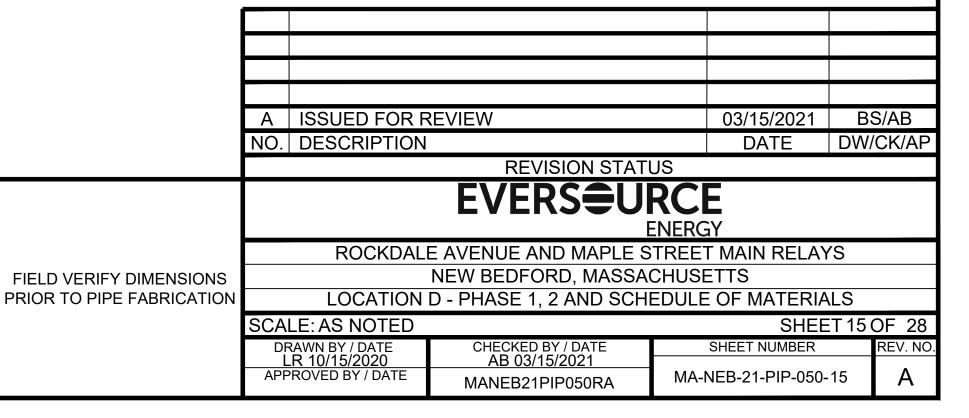
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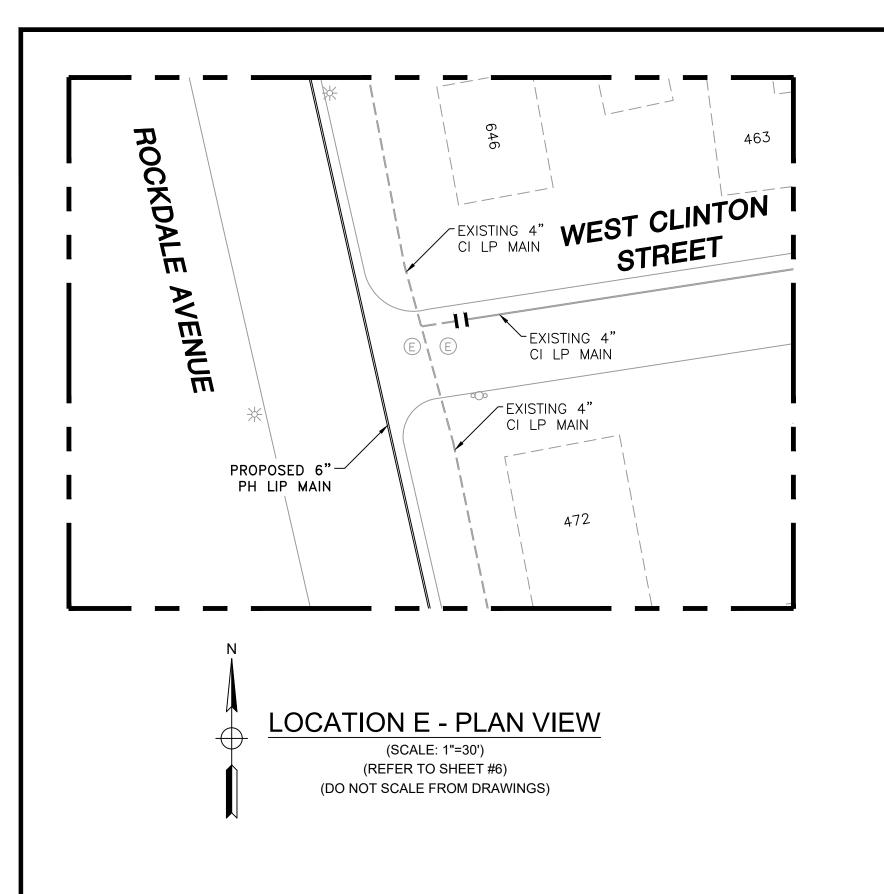
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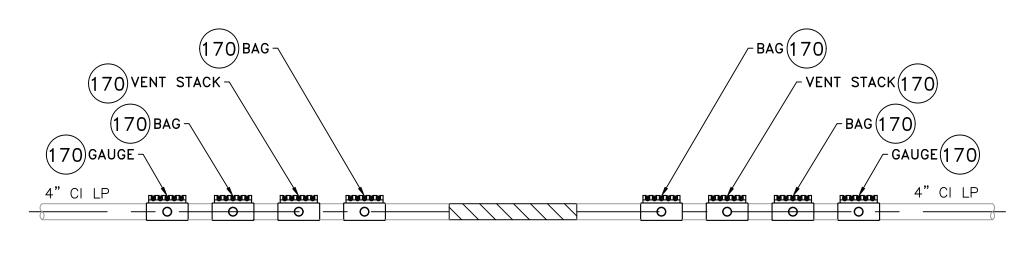
49-PART 192 OF MINIMUM FEDERAL S/
STANDARDS AND GPTC GUIDE FOR
TRANSMISSION AND DISTRIBUTION P
SYSTEMS. LATEST EDITION.

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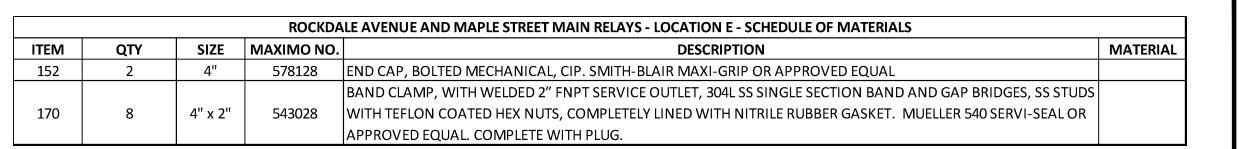


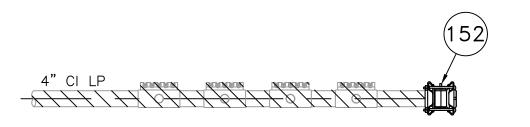
#### WEST CLINTON STREET

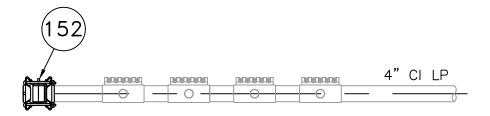


**LOCATION E - PHASE 1** 

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







#### WEST CLINTON STREET



LOCATION E - PHASE 2

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

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		REVISION STATUS				
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	ENERGY					
		ROCKDALE AVENUE AND MAPLE STREET	Γ MAIN RELAY	/S		
NS	NEW BEDFORD, MASSACHUSETTS					
ON		LOCATION E - PHASE 1, 2 AND SCHEDULE	OF MATERIA	LS		

SHEET 16 OF 28

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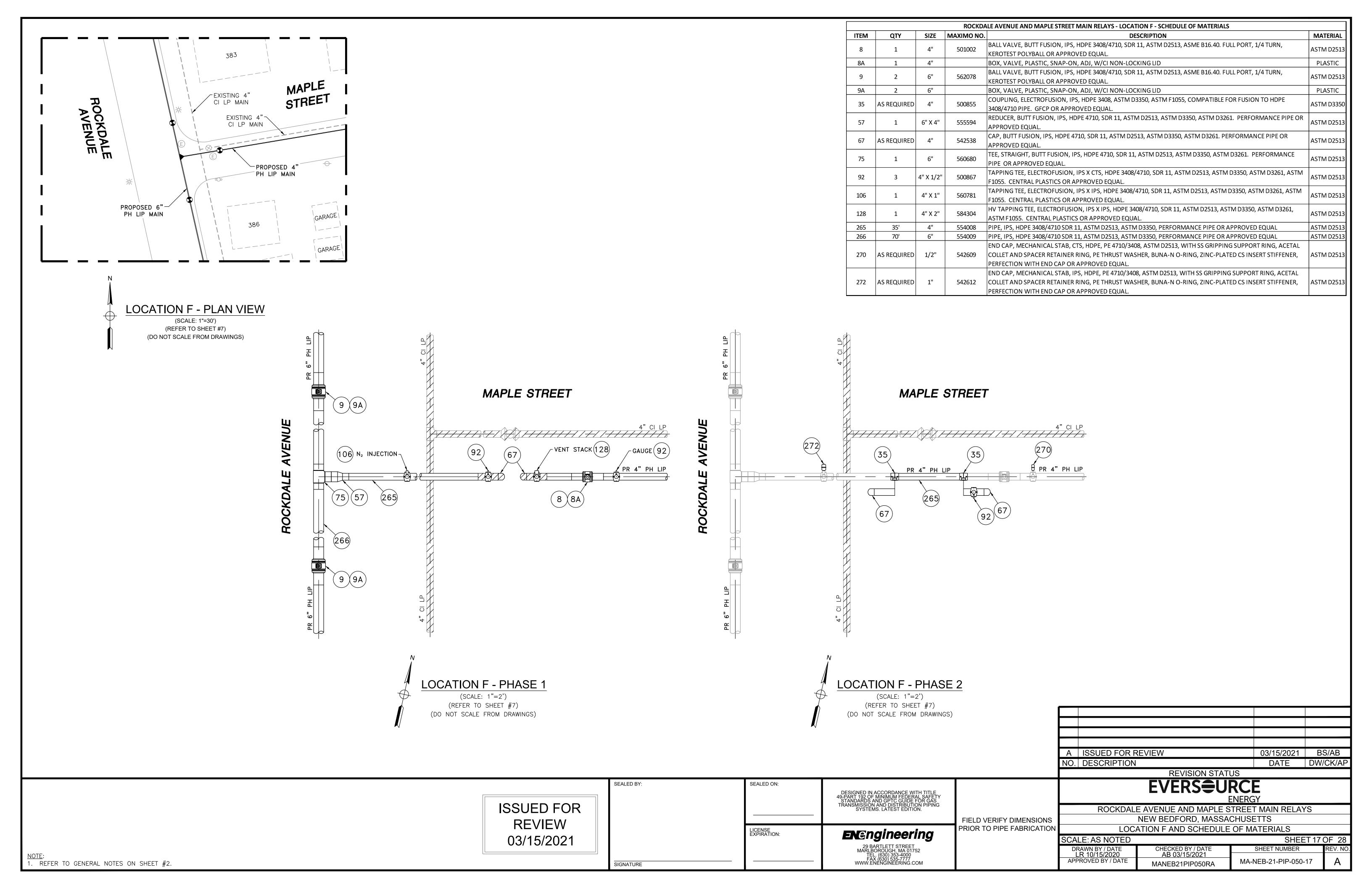
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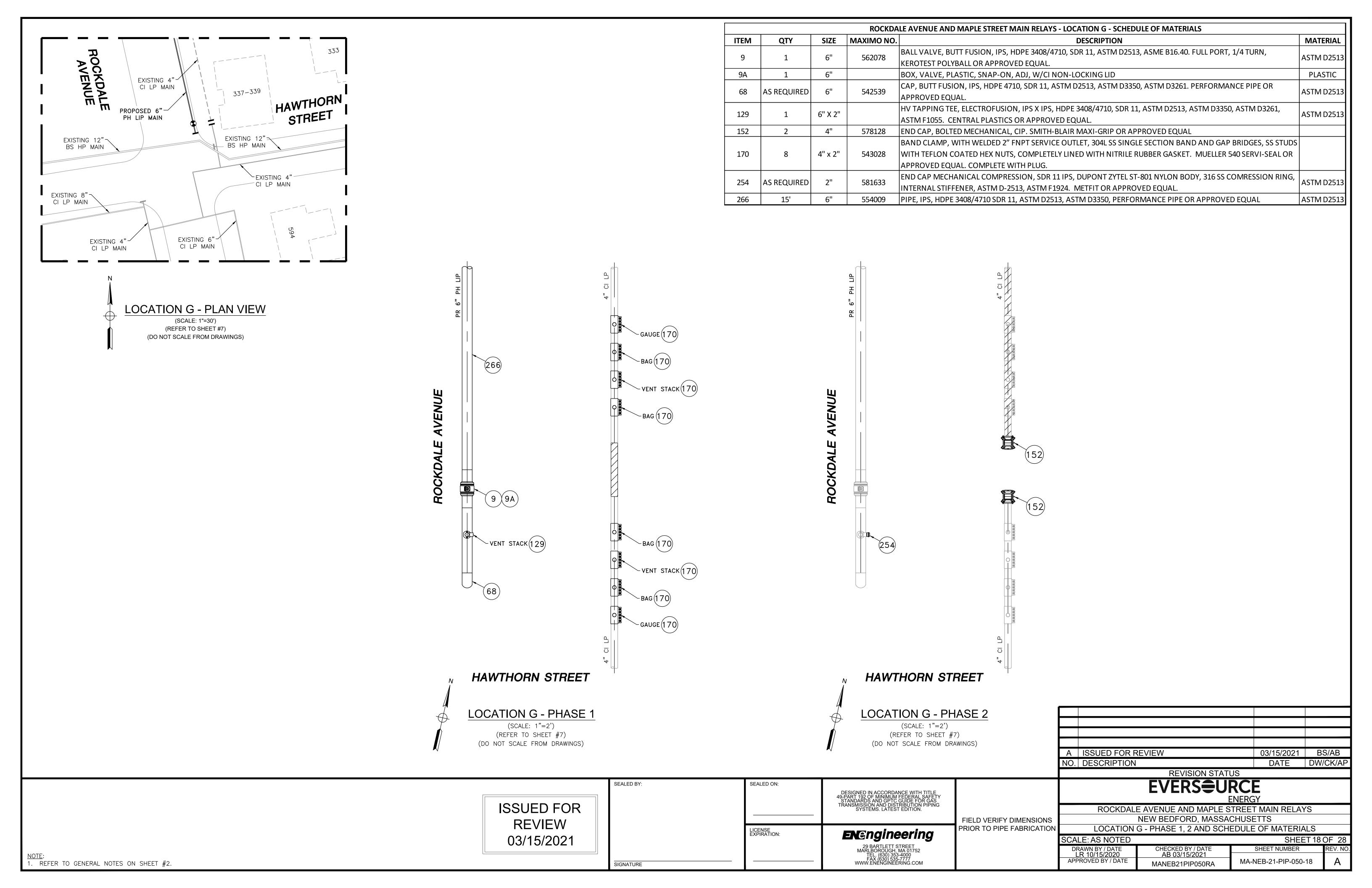
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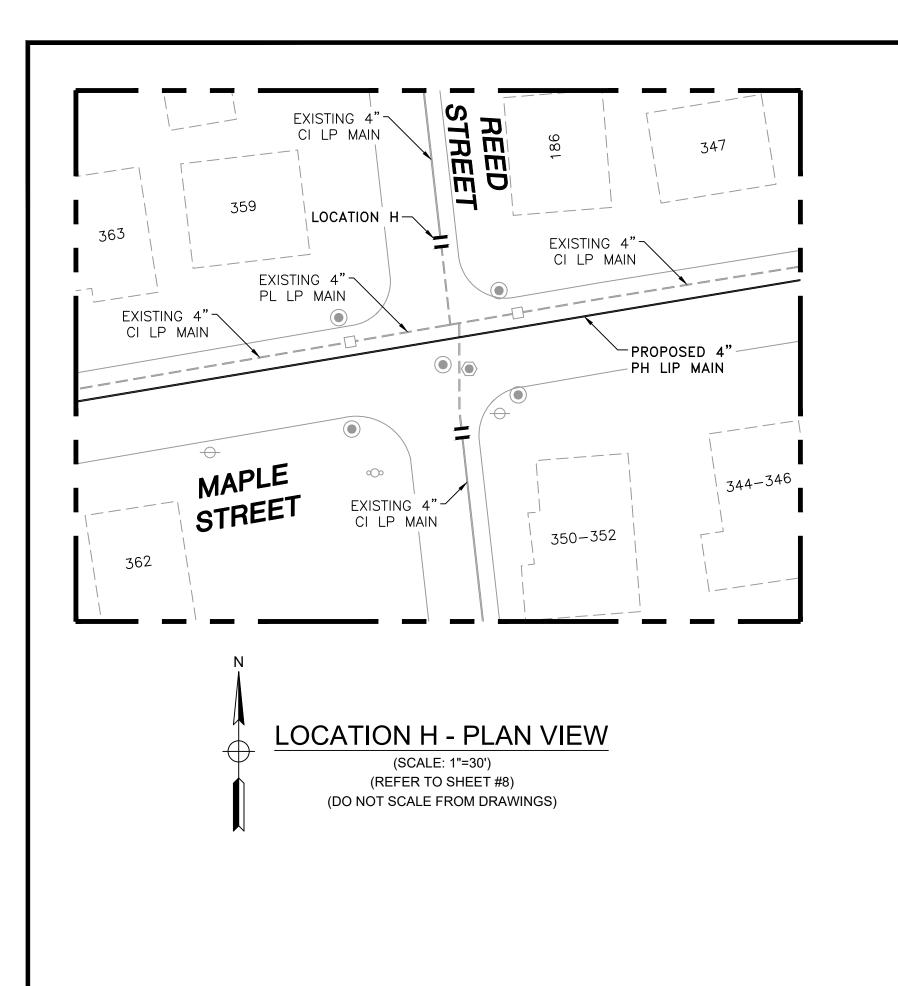
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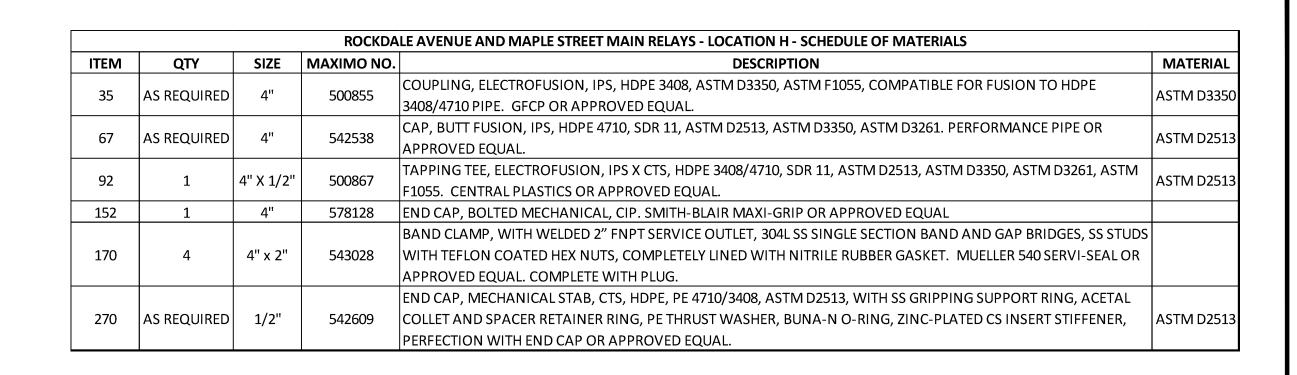
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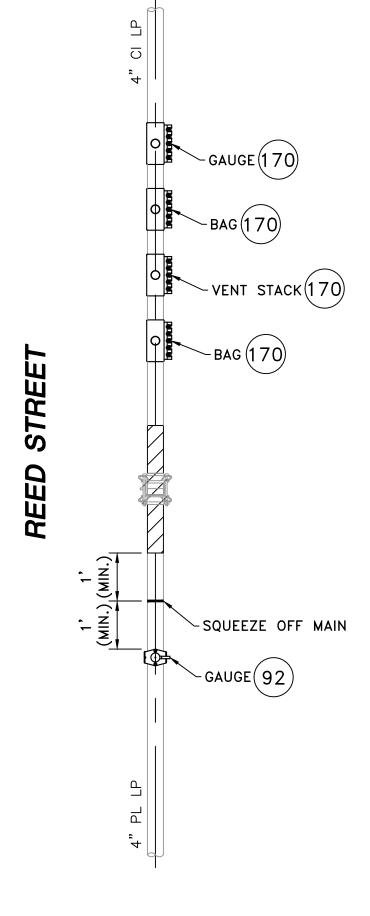
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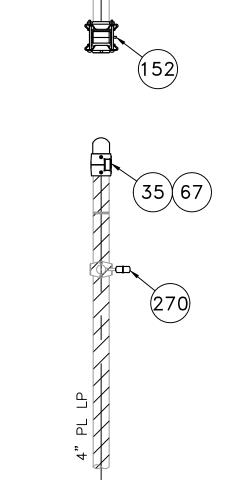












MAPLE STREET

**LOCATION H - PHASE 1** 

(SCALE: 1"=2') (REFER TO SHEET #8) (DO NOT SCALE FROM DRAWINGS) MAPLE STREET

LOCATION H - PHASE 2

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

	Α	ISSUED FOR REVIEW	03/15/2021	BS/AB
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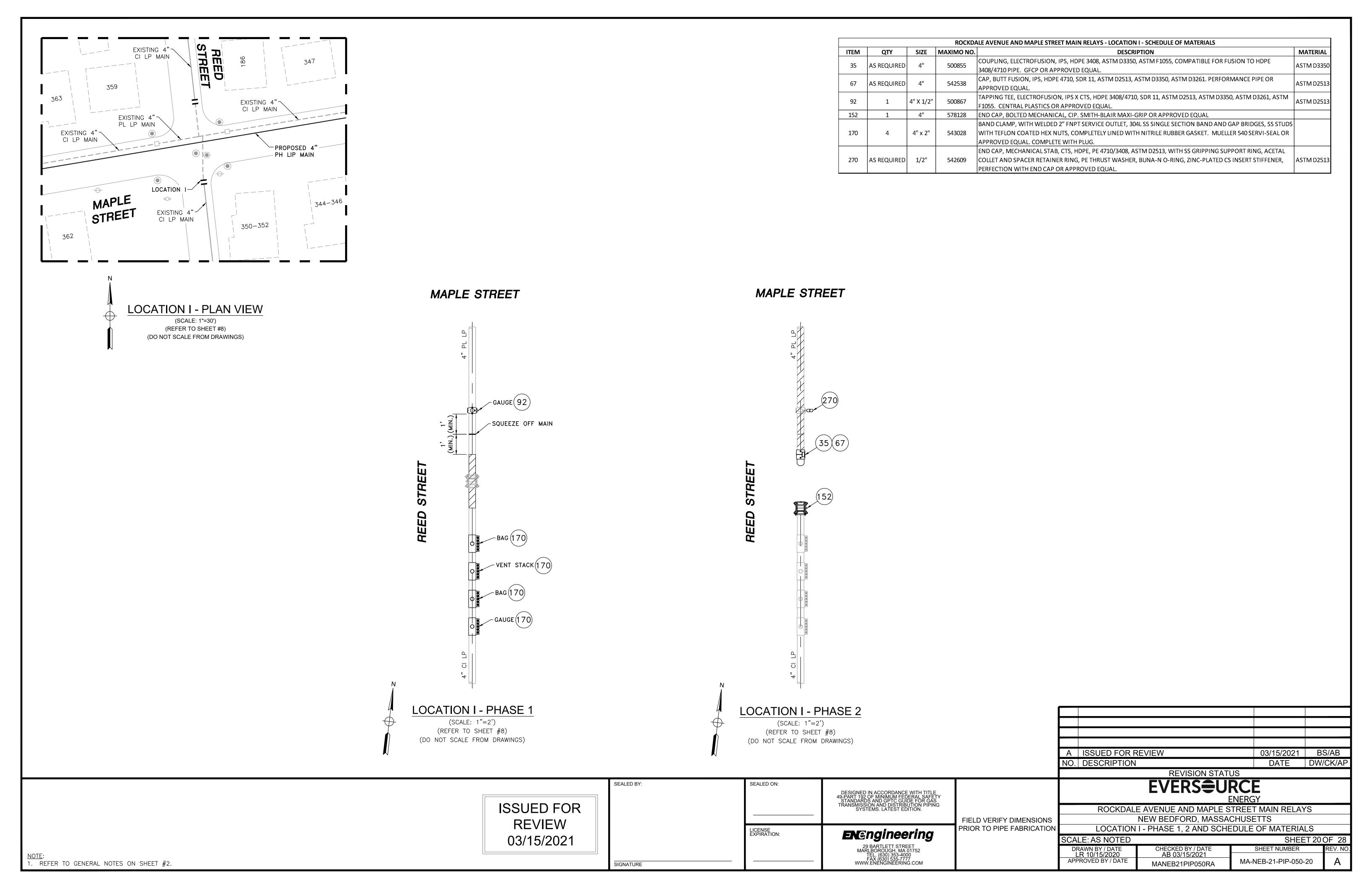
SEALED ON: DESIGNED IN ACCORDANCE WITH TITLE 49-PART 192 OF MINIMUM FEDERAL SAFETY STANDARDS AND GPTC GUIDE FOR GAS TRANSMISSION AND DISTRIBUTION PIPING SYSTEMS. LATEST EDITION. LICENSE EXPIRATION: **EN**Engineering 29 BARTLETT STREET MARLBOROUGH, MA 01752 TEL. (630) 353-4000 FAX (630) 535-7777 WWW.ENENGINEERING.COM

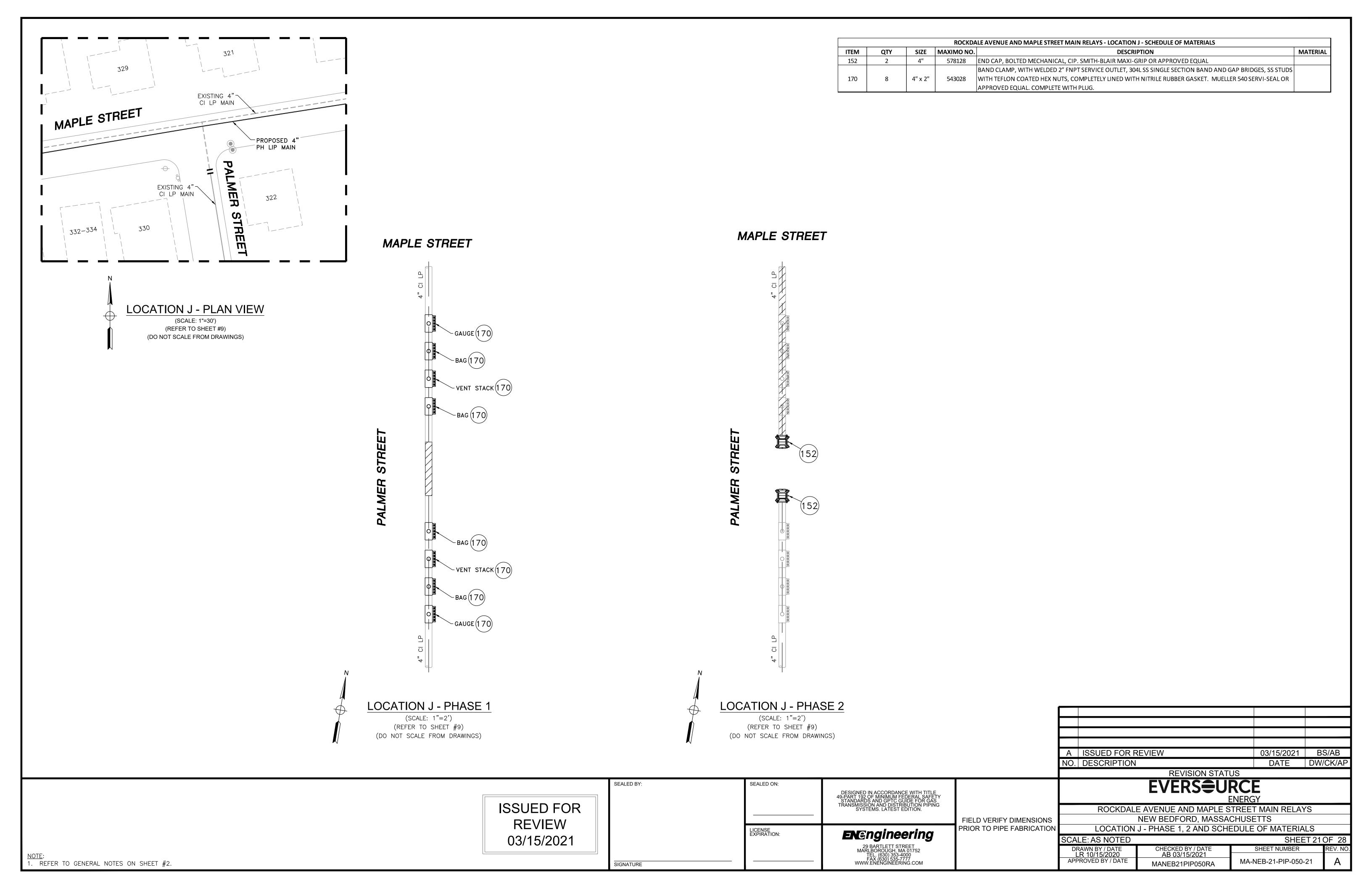
FIELD VERIFY DIMENSIONS PRIOR TO PIPE FABRICATION

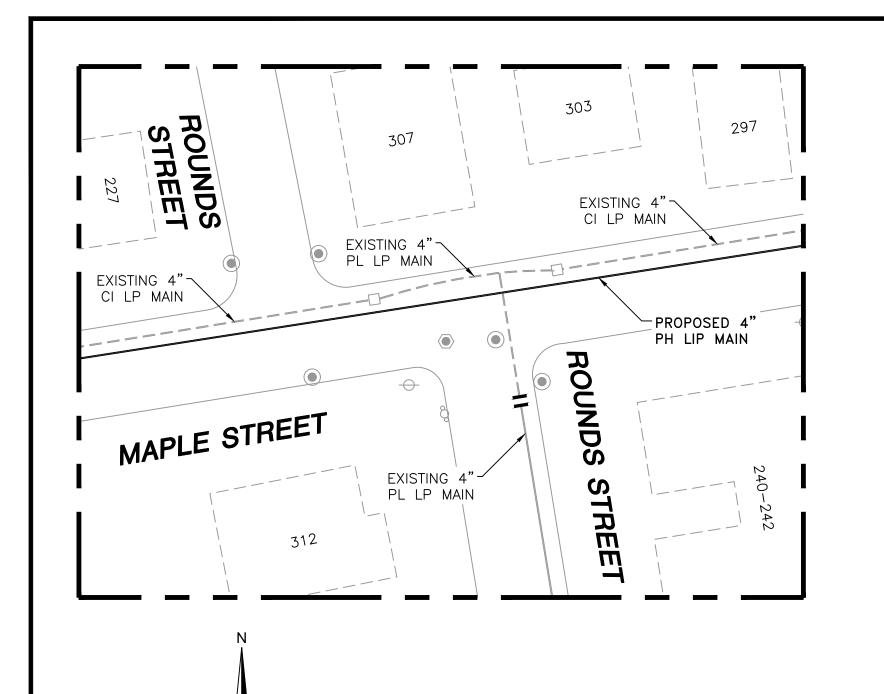
ROCKDALE AVENUE AND MAPLE STREET MAIN RELAYS NEW BEDFORD, MASSACHUSETTS

MANEB21PIP050RA

LOCATION H - PHASE 1, 2 AND SCHEDULE OF MATERIALS SHEET 19 OF 28 SCALE: AS NOTED DRAWN BY / DATE LR 10/15/2020 APPROVED BY / DATE CHECKED BY / DATE AB 03/15/2021 SHEET NUMBER MA-NEB-21-PIP-050-19



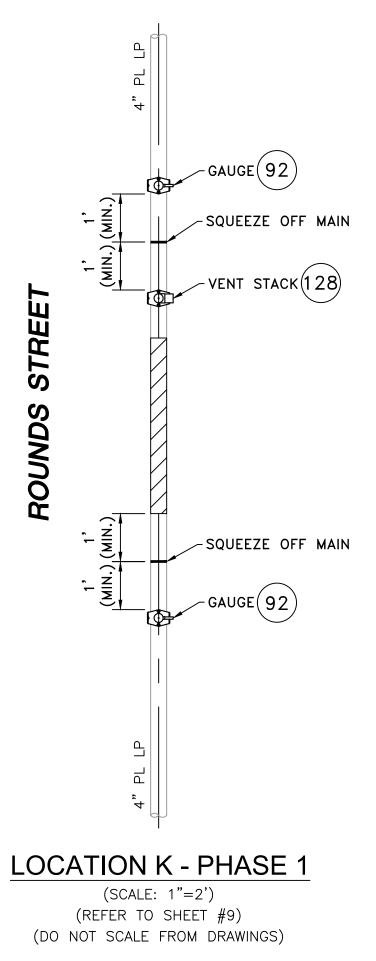




**LOCATION K - PLAN VIEW** 

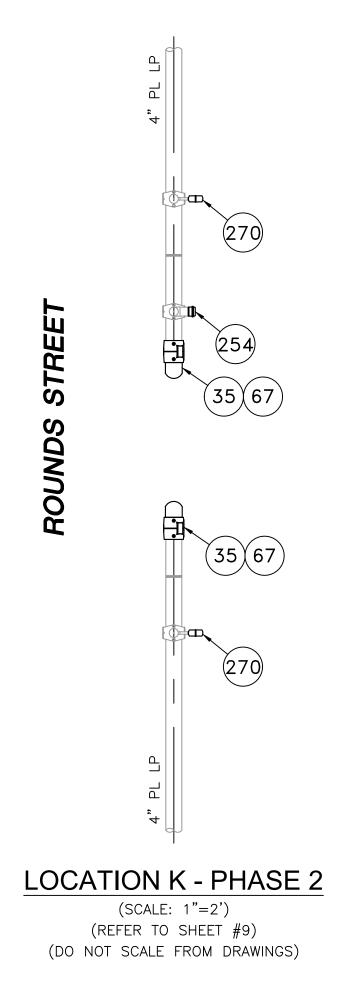
(SCALE: 1"=30') (REFER TO SHEET #9) (DO NOT SCALE FROM DRAWINGS)

#### MAPLE STREET



#### ROCKDALE AVENUE AND MAPLE STREET MAIN RELAYS - LOCATION K - SCHEDULE OF MATERIALS SIZE | MAXIMO NO. | MATERIAL ITEM QTY DESCRIPTION COUPLING, ELECTROFUSION, IPS, HDPE 3408, ASTM D3350, ASTM F1055, COMPATIBLE FOR FUSION TO HDPE AS REQUIRED **ASTM D3350** 35 500855 3408/4710 PIPE. GFCP OR APPROVED EQUAL. CAP, BUTT FUSION, IPS, HDPE 4710, SDR 11, ASTM D2513, ASTM D3350, ASTM D3261. PERFORMANCE PIPE OR ASTM D2513 AS REQUIRED 67 542538 APPROVED EQUAL. TAPPING TEE, ELECTROFUSION, IPS X CTS, HDPE 3408/4710, SDR 11, ASTM D2513, ASTM D3350, ASTM D3261, ASTM 4" X 1/2" 500867 ASTM D2513 92 F1055. CENTRAL PLASTICS OR APPROVED EQUAL. HV TAPPING TEE, ELECTROFUSION, IPS X IPS, HDPE 3408/4710, SDR 11, ASTM D2513, ASTM D3350, ASTM D3261, ASTM D2513 4" X 2" 128 584304 ASTM F1055. CENTRAL PLASTICS OR APPROVED EQUAL. END CAP MECHANICAL COMPRESSION, SDR 11 IPS, DUPONT ZYTEL ST-801 NYLON BODY, 316 SS COMRESSION RING, ASTM D2513 AS REQUIRED 581633 254 INTERNAL STIFFENER, ASTM D-2513, ASTM F1924. METFIT OR APPROVED EQUAL. END CAP, MECHANICAL STAB, CTS, HDPE, PE 4710/3408, ASTM D2513, WITH SS GRIPPING SUPPORT RING, ACETAL 1/2" ASTM D2513 AS REQUIRED COLLET AND SPACER RETAINER RING, PE THRUST WASHER, BUNA-N O-RING, ZINC-PLATED CS INSERT STIFFENER, 542609 PERFECTION WITH END CAP OR APPROVED EQUAL.

#### MAPLE STREET



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NO.	DESCRIPTION	DATE	DW/CK/AP		
	REVISION STATUS				

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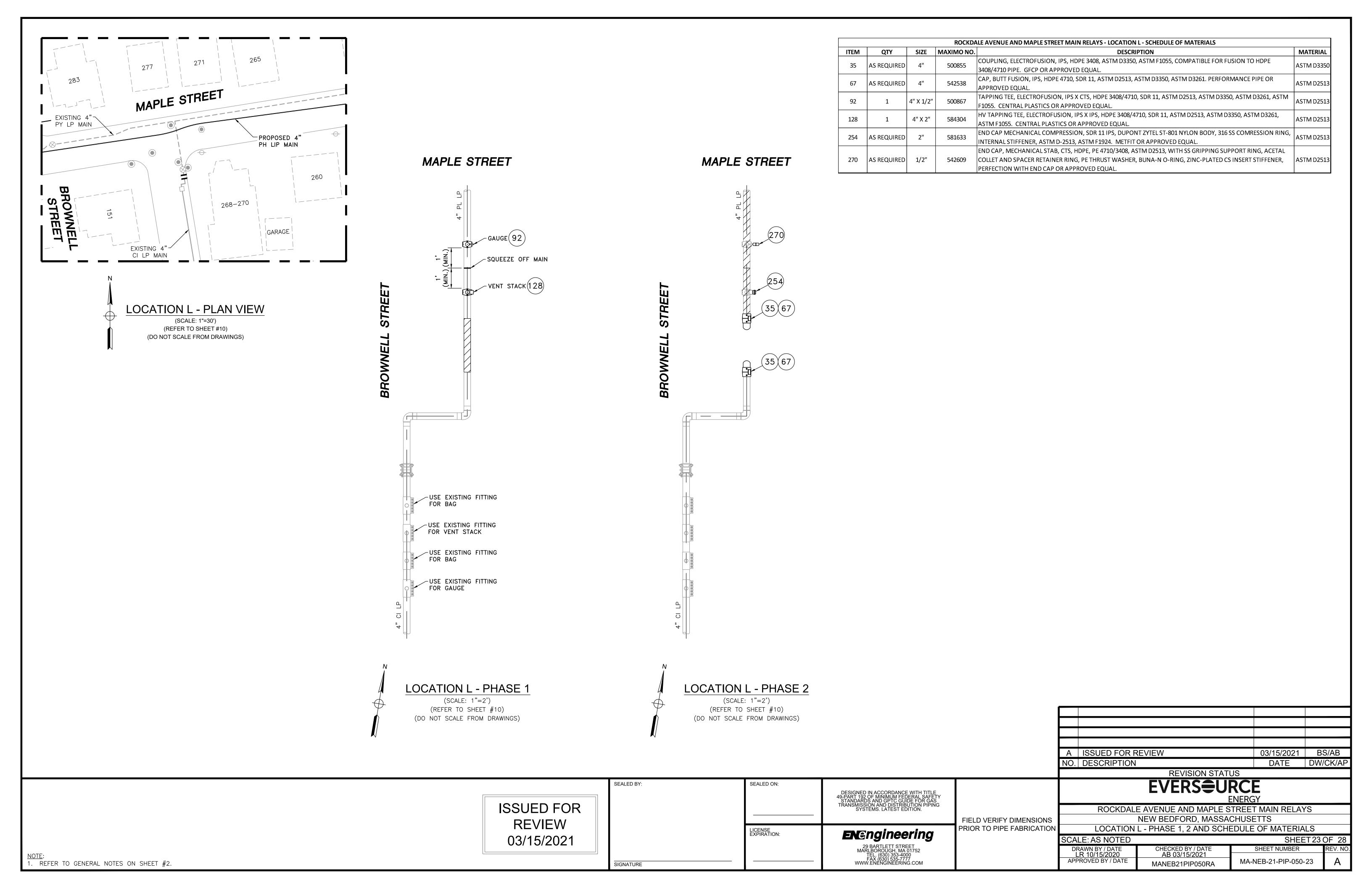
FIELD VERIFY DIMENSIONS PRIOR TO PIPE FABRICATION **EVERSURCE** 

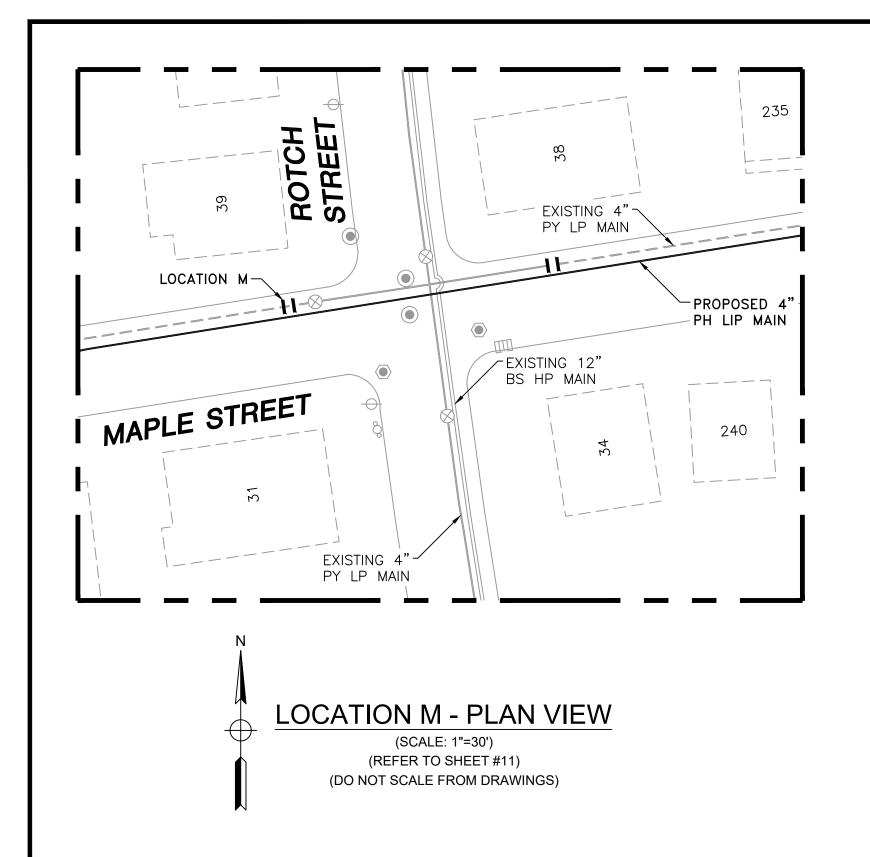
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ROCKDALE AVENUE AND MAPLE STREET MAIN RELAYS NEW BEDFORD, MASSACHUSETTS LOCATION K - PHASE 1, 2 AND SCHEDULE OF MATERIALS

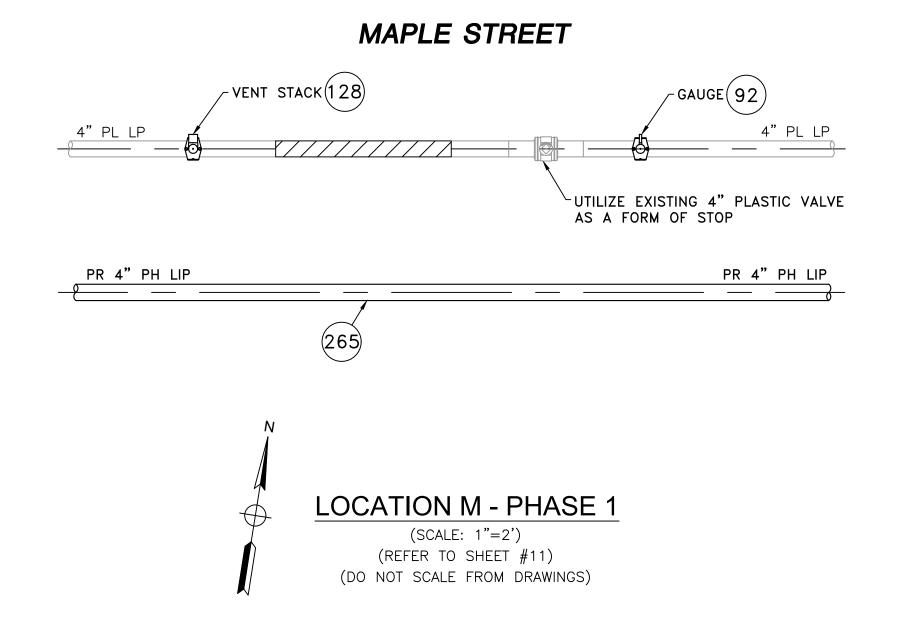
SCALE: AS NOTED SHEET 22 OF 28 DRAWN BY / DATE LR 10/15/2020 APPROVED BY / DATE CHECKED BY / DATE AB 03/15/2021 SHEET NUMBER

MA-NEB-21-PIP-050-22





1. REFER TO GENERAL NOTES ON SHEET #2.



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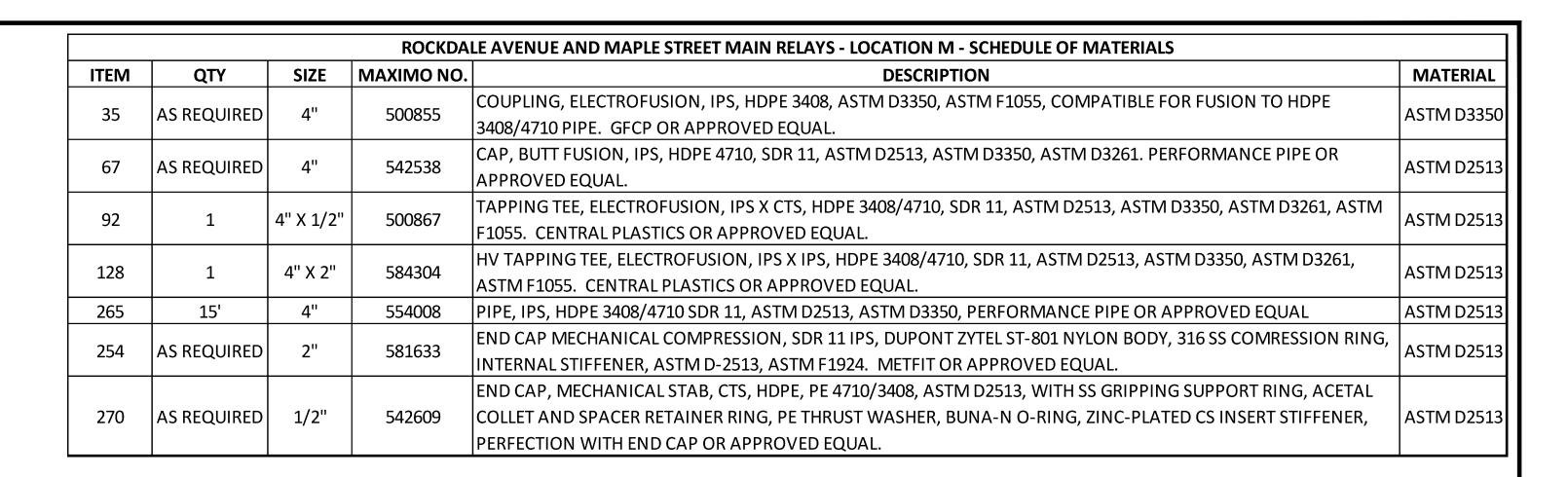
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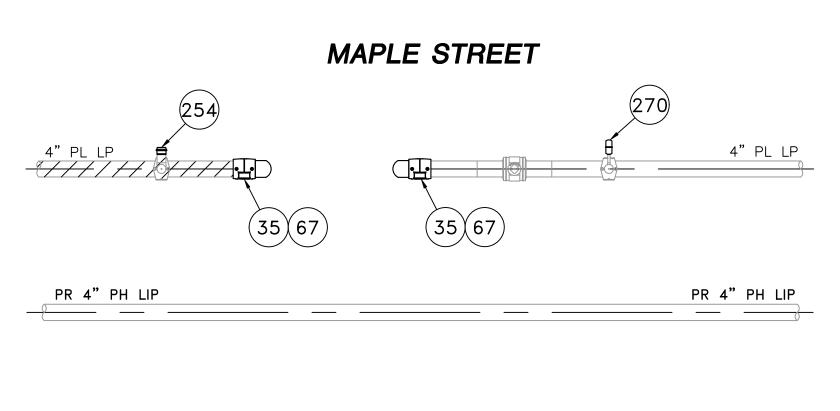
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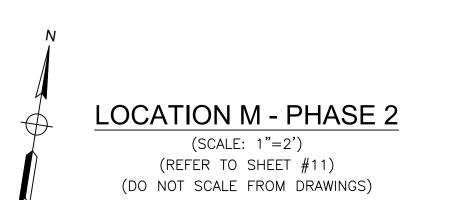
03/15/2021

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LICENSE EXPIRATION:



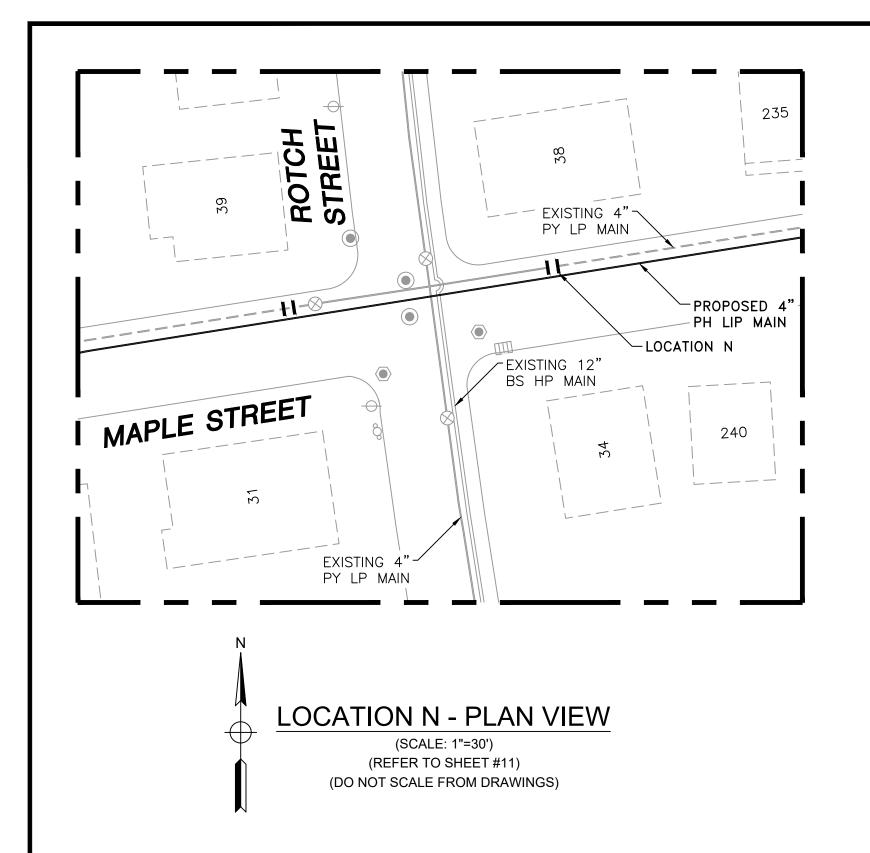


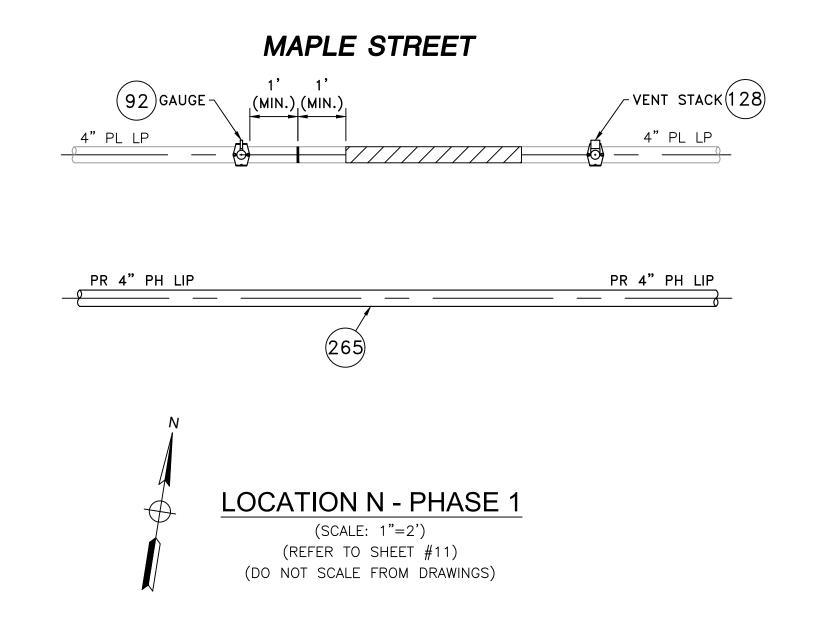


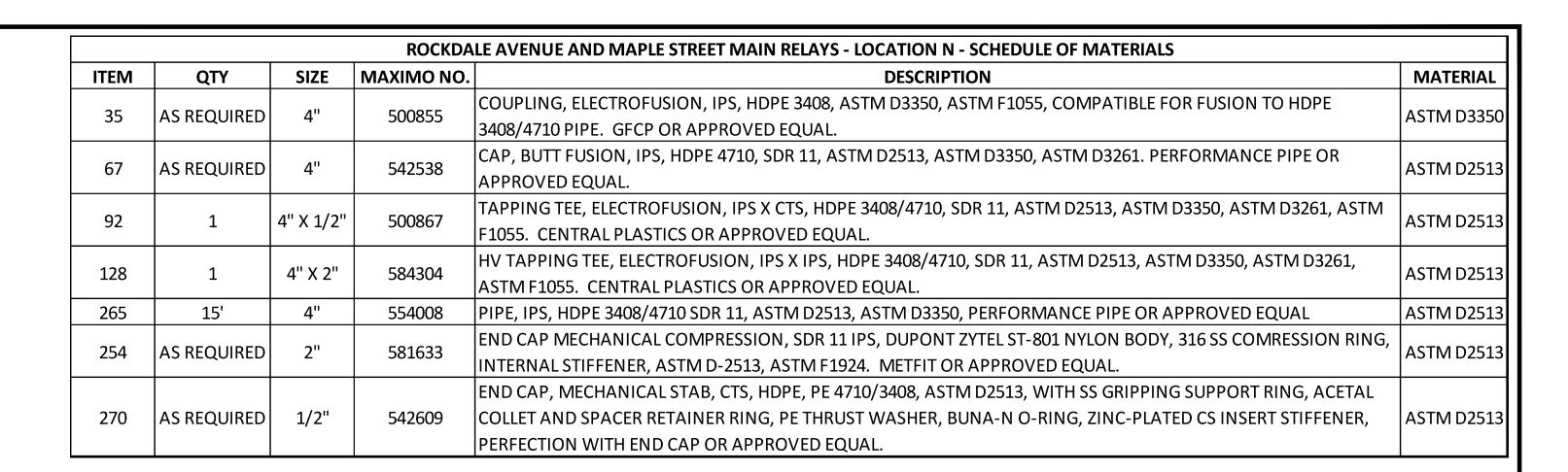
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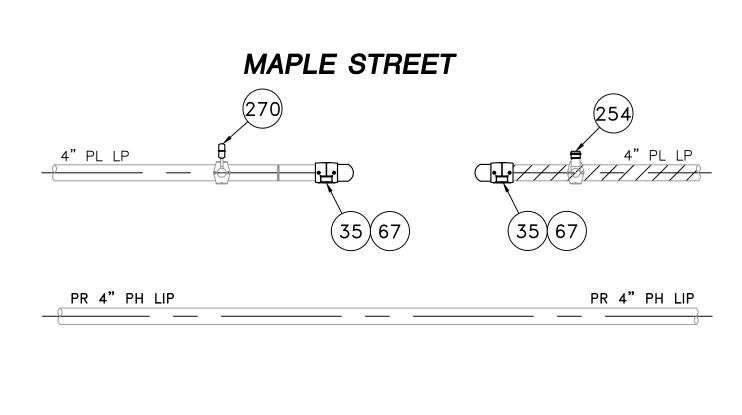
29 BARTLETT STREET MARLBOROUGH, MA 01752 TEL. (630) 353-4000 FAX (630) 535-7777 WWW.ENENGINEERING.COM

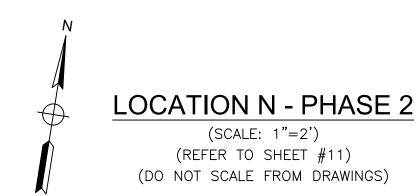
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		ENERGY				
		ROCKDALE AVENUE AND MAPLE STREET MAIN RELAYS				
		NEW BEDFORD, MASSACHUSETTS				
		LOCATION M - PHASE 1, 2 AND SCHEDULE OF MATERIALS				
		SCALE: AS NOTED		SHEET 24 OF 28		
		DRAWN BY / DATE	CHECKED BY / DATE	SHEET NUMBER	REV. NO.	
		LR 10/15/2020 APPROVED BY / DATE	AB 03/15/2021 MANEB21PIP050RA	MA-NEB-21-PIP-050-	-24 A	











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	FIELD VERIFY DIMENSIONS PRIOR TO PIPE FABRICATION	ENERGY				
		ROCKDALE AVENUE AND MAPLE STREET MAIN RELAYS				
		NEW BEDFORD, MASSACHUSETTS				
		LOCATION N - PHASE 1, 2 AND SCHEDULE OF MATERIALS				
		SCALE: AS NOTED		SHEET 25 OF 28		
		DRAWN BY / DATE LR 10/15/2020	CHECKED BY / DATE AB 03/15/2021	SHEET NUMBER	REV. NO	
		APPROVED BY / DATE	MANEB21PIP050RA	MA-NEB-21-PIP-050-	-25 A	

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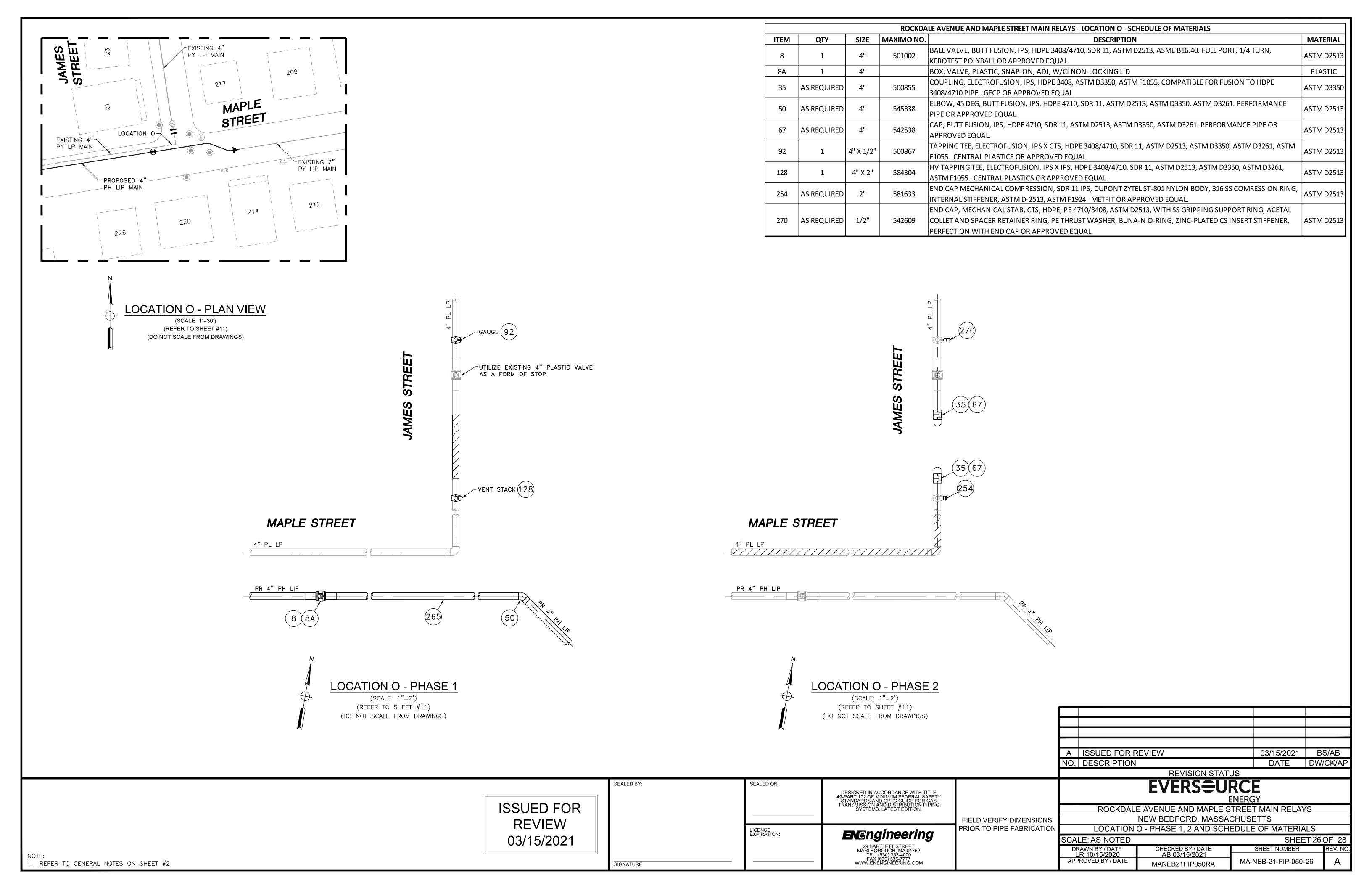
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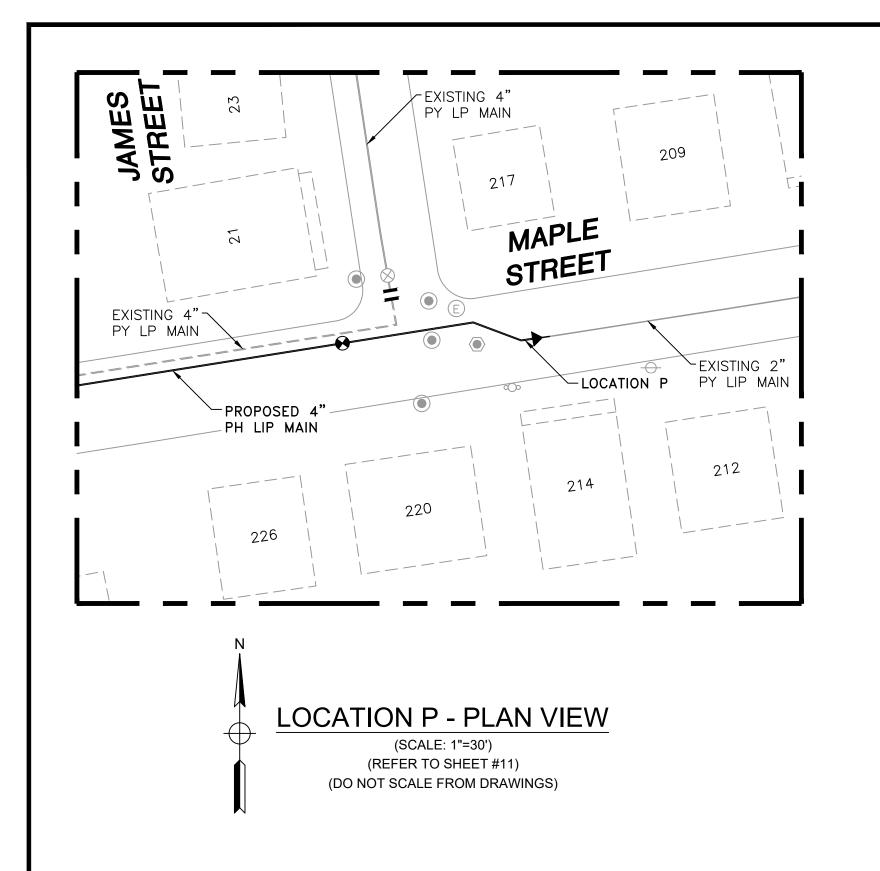
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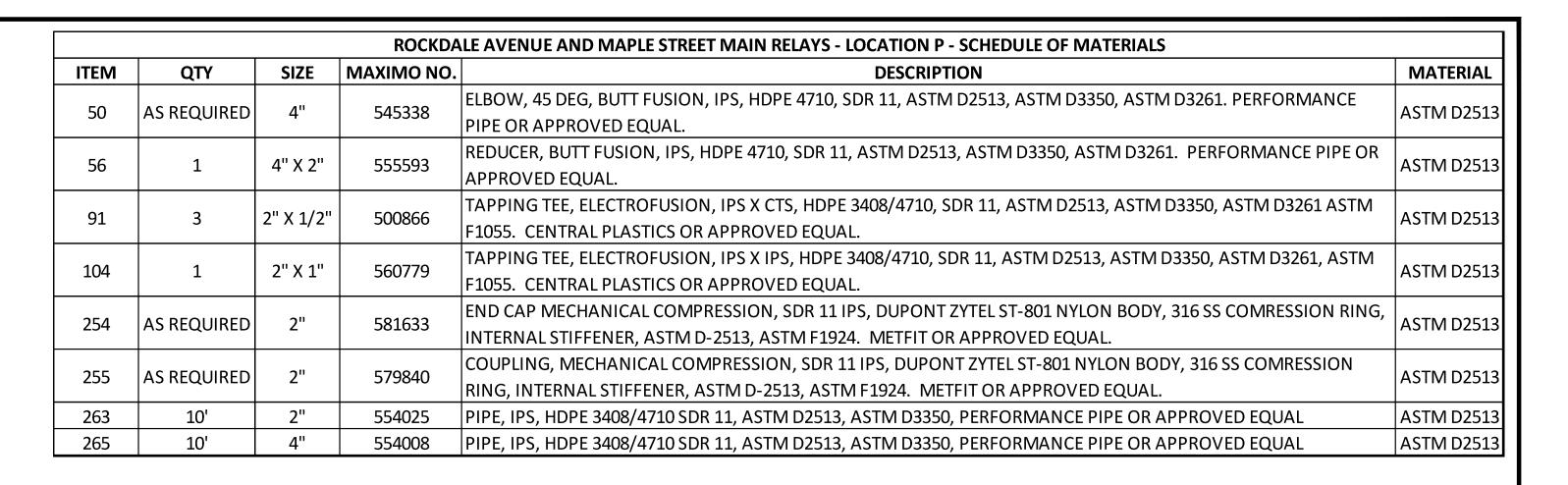
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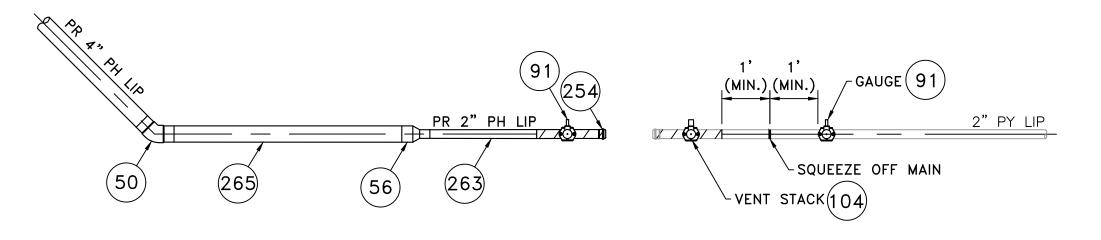
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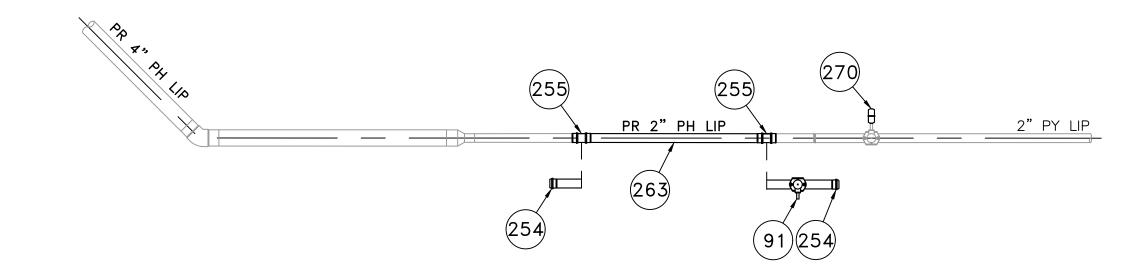






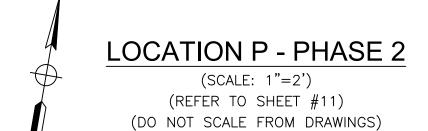






MAPLE STREET

# LOCATION P - PHASE 1 (SCALE: 1"=2') (REFER TO SHEET #11) (DO NOT SCALE FROM DRAWINGS)



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LICENSE EXPIRATION:	ENEngineering  29 BARTLETT STREET MARLBOROUGH, MA 01752 TEL. (630) 353-4000 FAX (630) 535-7777 WWW.ENENGINEERING.COM	PRIOR TO PIPE FABRICATION

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ROCKDALE AVENUE AND MAPLE STREET MAIN RELAYS
NEW BEDFORD, MASSACHUSETTS
LOCATION P - PHASE 1, 2 AND SCHEDULE OF MATERIALS

 SCALE: AS NOTED
 SHEET 27 OF 28

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 REV. NO.

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