EVERSEURCE ENERGY

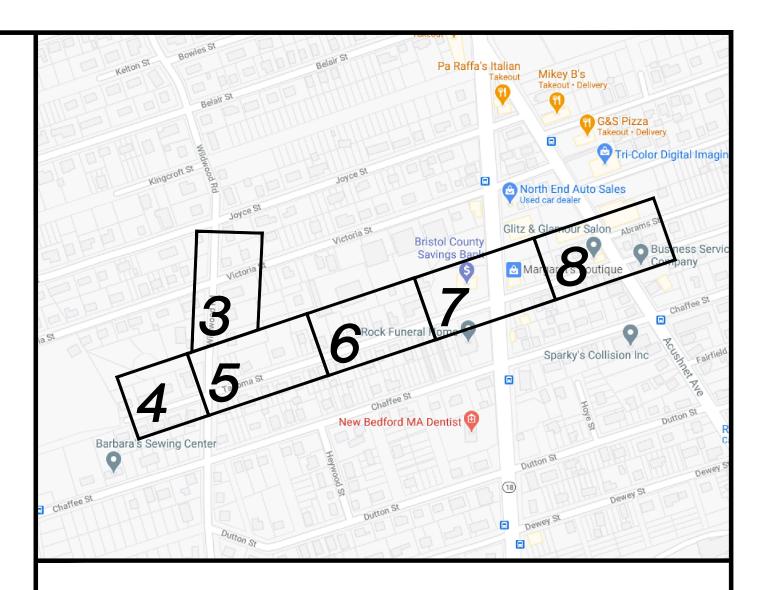
TACOMA STREET MAIN RELAY INSTALLATION OF 2030' OF 4" PH LIP GAS MAIN TACOMA STREET AND WILDWOOD ROAD NEW BEDFORD, MASSACHUSETTS ENE PROJECT #: 2005881.56 EVERSOURCE PROJECT #: 4407480

TACOMA & WILDWOOD GSEP: 4407480 TACOMA (WILDWOOD TO EOM) SI: 4412047

CONSTRUCTION

04/13/2021

SIGNATURE



LOCUS PLAN NOT TO SCALE

NEW BEDFORD, MASSACHUSETTS

SITE PLAN, LOCUS PLAN AND SHEET INDEX

CHECKED BY / DATE AB 04/13/2021

MA21NEBPIP020R0

SHEET 1 OF 15

SHEET NUMBER

MA-21-NEB-PIP-020-01

FIELD VERIFY DIMENSIONS

PRIOR TO PIPE FABRICATION

SCALE: AS NOTED

DRAWN BY / DATE MR 11/03/2020 APPROVED BY / DATE EK 04/13/2021

	LUGEODIA OTDEET					SHEET INDEX
VICTORIA STREET					SHEET NUMBER	DESCRIPTION
4" PY LIP 2006 4" PY LIP 2006 4" PY LIP 2	4" PY L		4" CI LP 1922		1	SITE PLAN, LOCUS PLAN AND SHEET INDEX
4" CS LP 1965 4" BS LP 1951 4" CS LP 1970 4" BS LP	1928 × 4" PL	LP 1990		Γ	2	GENERAL NOTES AND WORK ORDER KEY MAP
					3	INSTALLATION PLAN
TO TO THE REFER TO LOCATION A -				\ \\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	4	INSTALLATION PLAN
L \ \ /\Omega PHASE 1 AND 2				3" PL LP 1983	5	INSTALLATION PLAN
ON SHEET 9		Z			6	INSTALLATION PLAN
			AVENUE AVENUE	0,1	7	INSTALLATION PLAN
		2" PY LIP 2005	一 第	5	8	INSTALLATION PLAN
	Γ — — — ¬				9	LOCATION A - PHASE 1, 2 AND SCHEDULE OF MATERIALS
					10	LOCATION B - PHASE 1, 2 AND SCHEDULE OF MATERIALS
					11	LOCATION C AND SCHEDULE OF MATERIALS
	TACOMA STREET		TACOMA STREET	\ \/\	12	LOCATION D - PHASE 1, 2 AND SCHEDULE OF MATERIALS
					13	LOCATION E - PHASE 1, 2 AND SCHEDULE OF MATERIALS
TACOMA STREET					14	LOCATION F - PHASE 1, 2 AND SCHEDULE OF MATERIALS
					15	STANDARD CORROSION DETAILS
			- /- +			
PR 2" PH LIP PR 4" PH LIF		PR 4" PH LIP	PR 4" PI			
4" PD LP 1987 4" CI LP 192	4	4" CI LP 1924	4" CI LP	1918		
REFER TO LOCATION B		REFER TO LOCATIONS D AND E - / - PHASE 1 AND 2	REFER TO LOCAT	ION F		
		ON SHEETS 12 AND 13	- PHASE 1 . ON SHE	ET 14		
				192		
CHAFFE STREET						
CHAFFEE STREET	CHAFFEE STREET		CHAFFEE STREET			
4" OLLD 1022						
4" CI LP 1924	4" CI L	_P 1922	4" CI LP 1919			
					\	
				7		
				i		
<u>NOTE</u> : EXISTING CONDITIONS SHOWN ARE BASED ON GIS, AERIAL AND AVAILABLE RECORD DATA,	SITE PLAN					
NO FIELD SURVEY WAS PERFORMED. CONTRACTOR TO VERIFY EXISTING CONDITIONS AS NEEDED IN THE FIELD. PROPOSED MAIN ALIGNMENT AND OFFSETS ARE APPROXIMATE.	NEW BEDFORD, MASSACHUSETTS					
	(SCALE: 1"=80')				0 1001150 50	D CONCEDITORION DOMESTICAL
	(DO NOT SCALE FROM DRAWINGS)				NO. DESCRIPTION	R CONSTRUCTION 04/13/2021 BS/AB/EK ON DATE DW/CK/AP
					NO. DECOMINA	REVISION STATUS
		SEALED BY: SEALED ON:				EVERSURCE
		NTH OF MASS	DESIGNED IN ACCORDANCE WITH TITLE 49-PART 192 OF MINIMUM FEDERAL SAFETY STANDARDS AND GPTC GUIDE FOR GAS			ENERGY
	ISSUED FOR	ERIC VINAI	STANDARDS AND GPTC GUIDE FOR GAS TRANSMISSION AND DISTRIBUTION PIPING SYSTEMS. LATEST EDITION.			TACOMA STREET MAIN RELAY

06/30/2022

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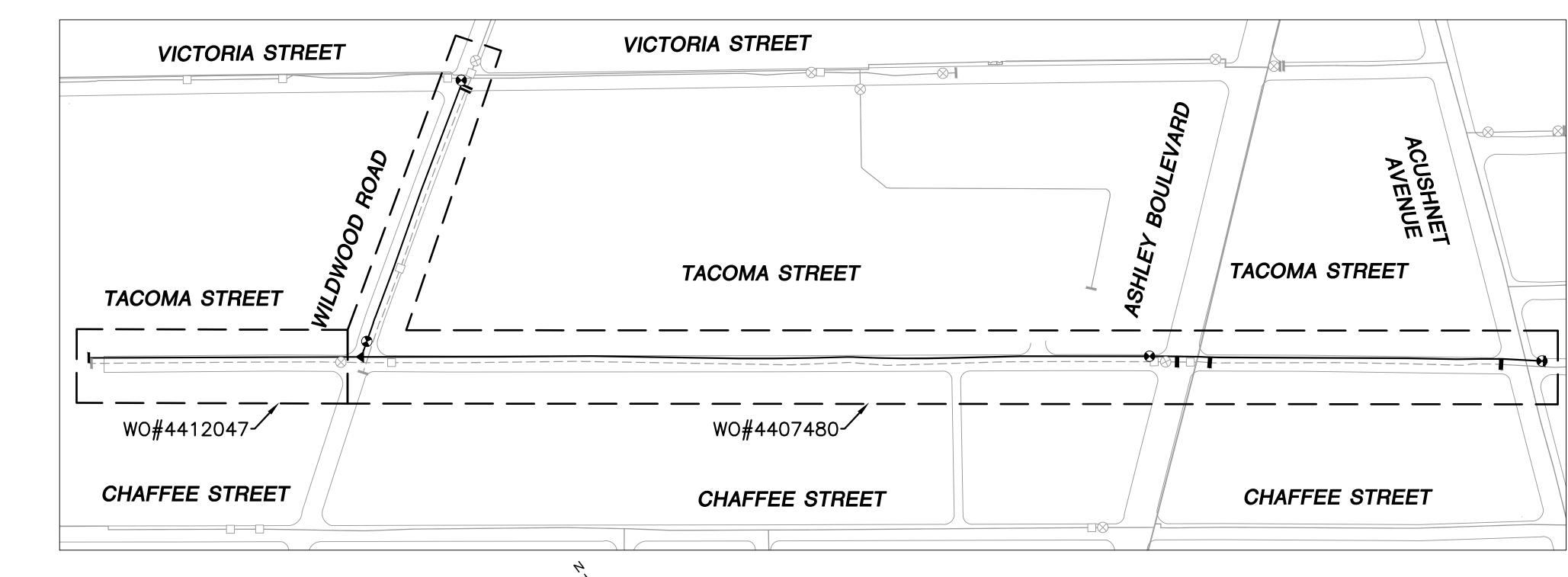
LICENSE EXPIRATION:

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
 - IF A CHANGE IN THE LOCATION OF VALVES IS REQUIRED
 - 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:

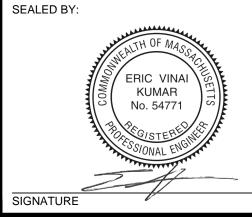
LP = 14" W.C.LIP = 35 PSIG IP = 60 PSIG HP = 90 PSIG

- 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 SALE)

ISSUED FOR CONSTRUCTION 04/13/2021



SEALED ON: 04/14/2021 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

0 ISSUED FOR CONSTRUCTION 04/13/2021 BS/AB/EK NO. DESCRIPTION DW/CK/AF DATE **REVISION STATUS EVERS\$\rightarrow\$URCE**

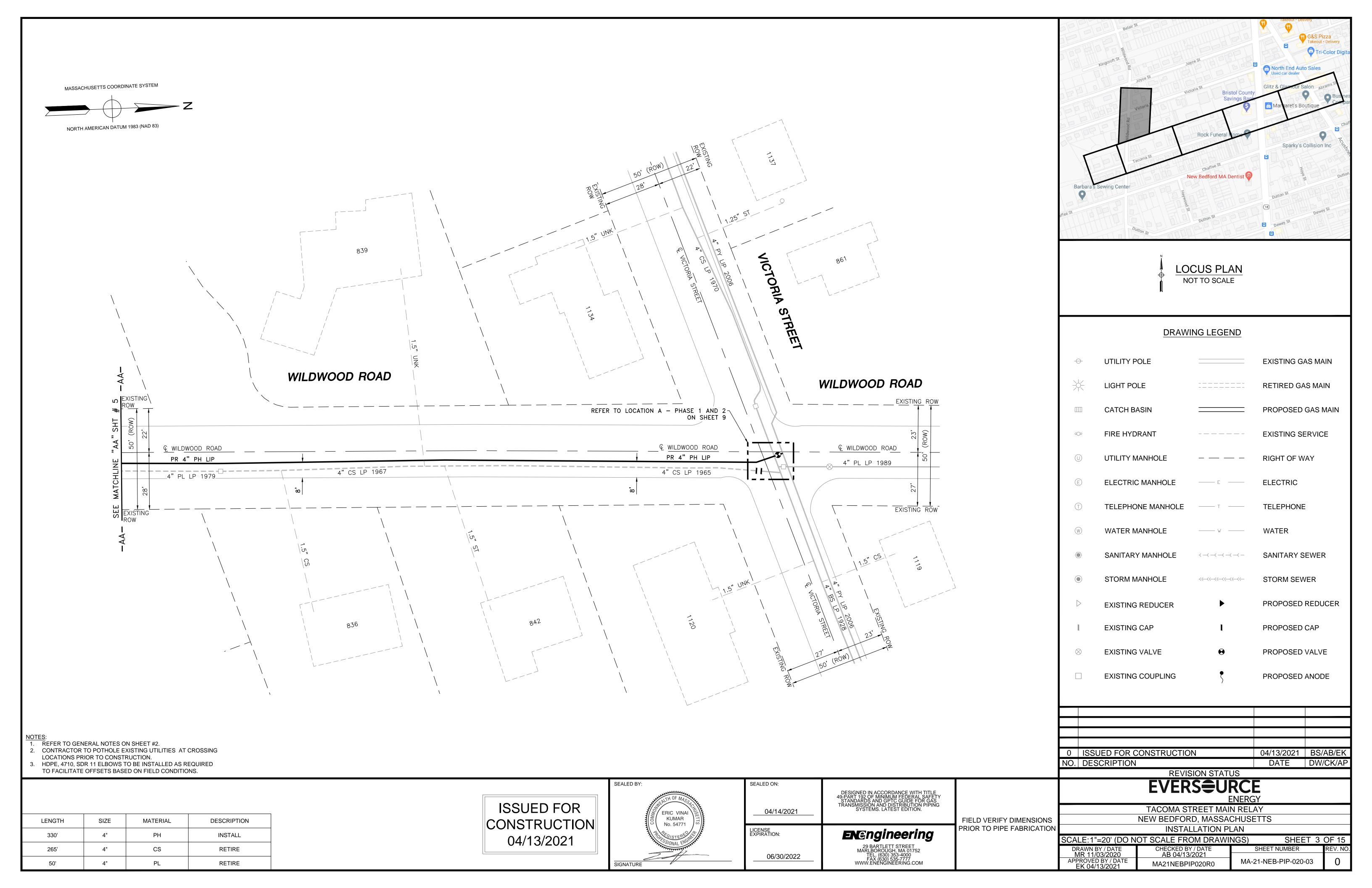
> TACOMA STREET MAIN RELAY NEW BEDFORD, MASSACHUSETTS GENERAL NOTES AND WORK ORDER KEY MAP

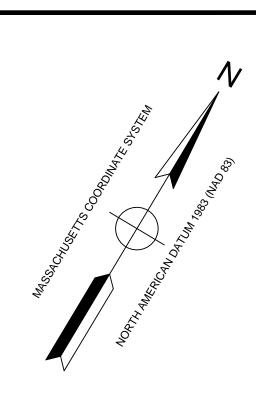
SCALE: NOT TO SCALE SHEET 2 OF 15 CHECKED BY / DATE AB 04/13/2021 SHEET NUMBER MA-21-NEB-PIP-020-02

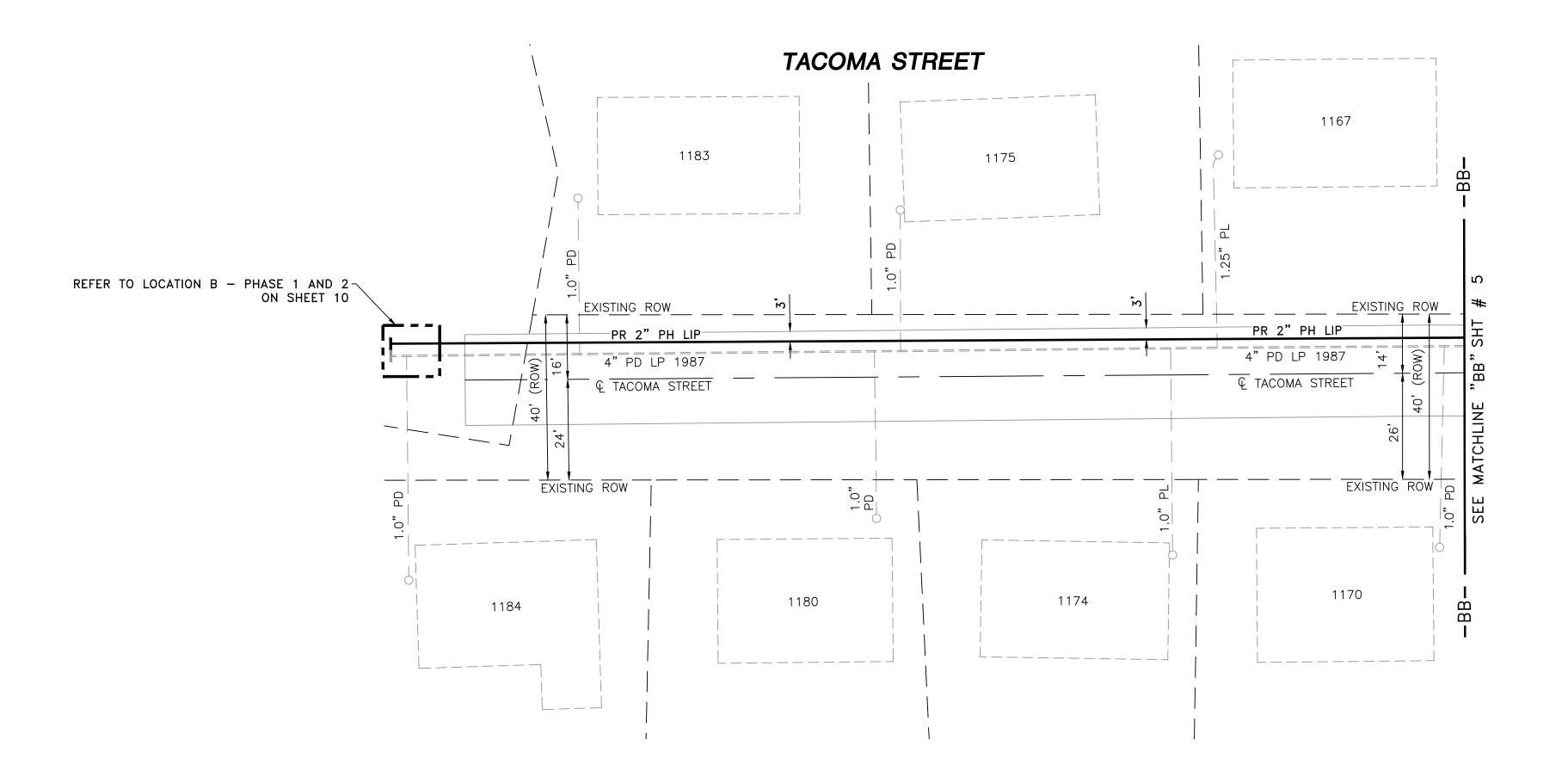
MA21NEBPIP020R0

EK 04/13/2021

06/30/2022



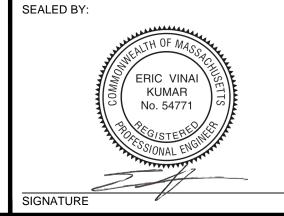




- REFER TO GENERAL NOTES ON SHEET #2.
- 2. CONTRACTOR TO POTHOLE EXISTING UTILITIES AT CROSSING
- LOCATIONS PRIOR TO CONSTRUCTION.
- 3. HDPE, 4710, SDR 11 ELBOWS TO BE INSTALLED AS REQUIRED TO FACILITATE OFFSETS BASED ON FIELD CONDITIONS.

LENGTH SIZE MATERIAL DESCRIPTION INSTALL 260' RETIRE 260'

ISSUED FOR CONSTRUCTION 04/13/2021



SEALED ON:

LICENSE EXPIRATION:

04/14/2021

06/30/2022

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FIELD VERIFY DIMENSIONS PRIOR TO PIPE FABRICATION

04/13/2021 BS/AB/EK 0 ISSUED FOR CONSTRUCTION NO. DESCRIPTION DATE DW/CK/AP **REVISION STATUS**

~(—((—((—((—

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

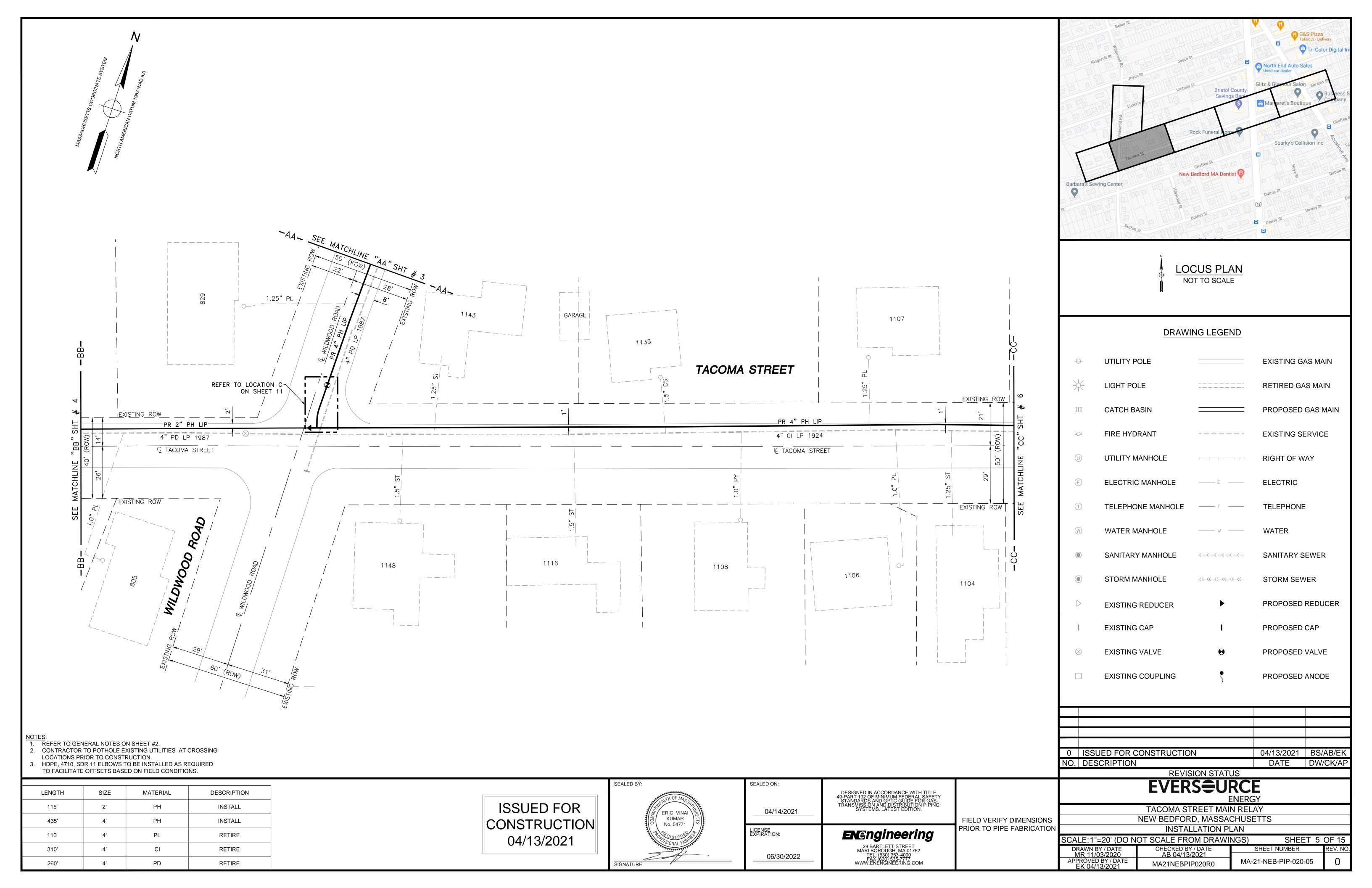
EXISTING COUPLING

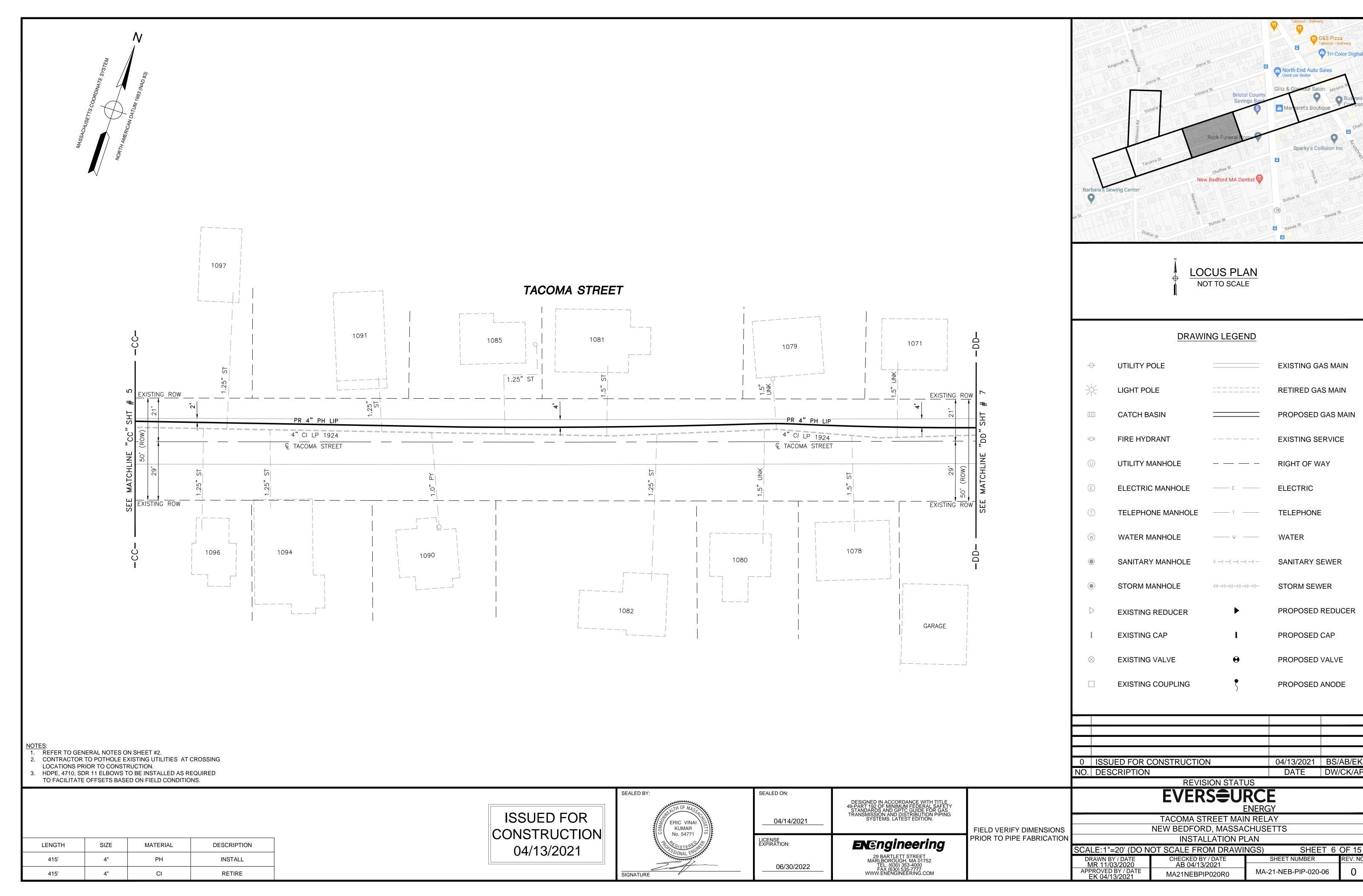
SANITARY MANHOLE

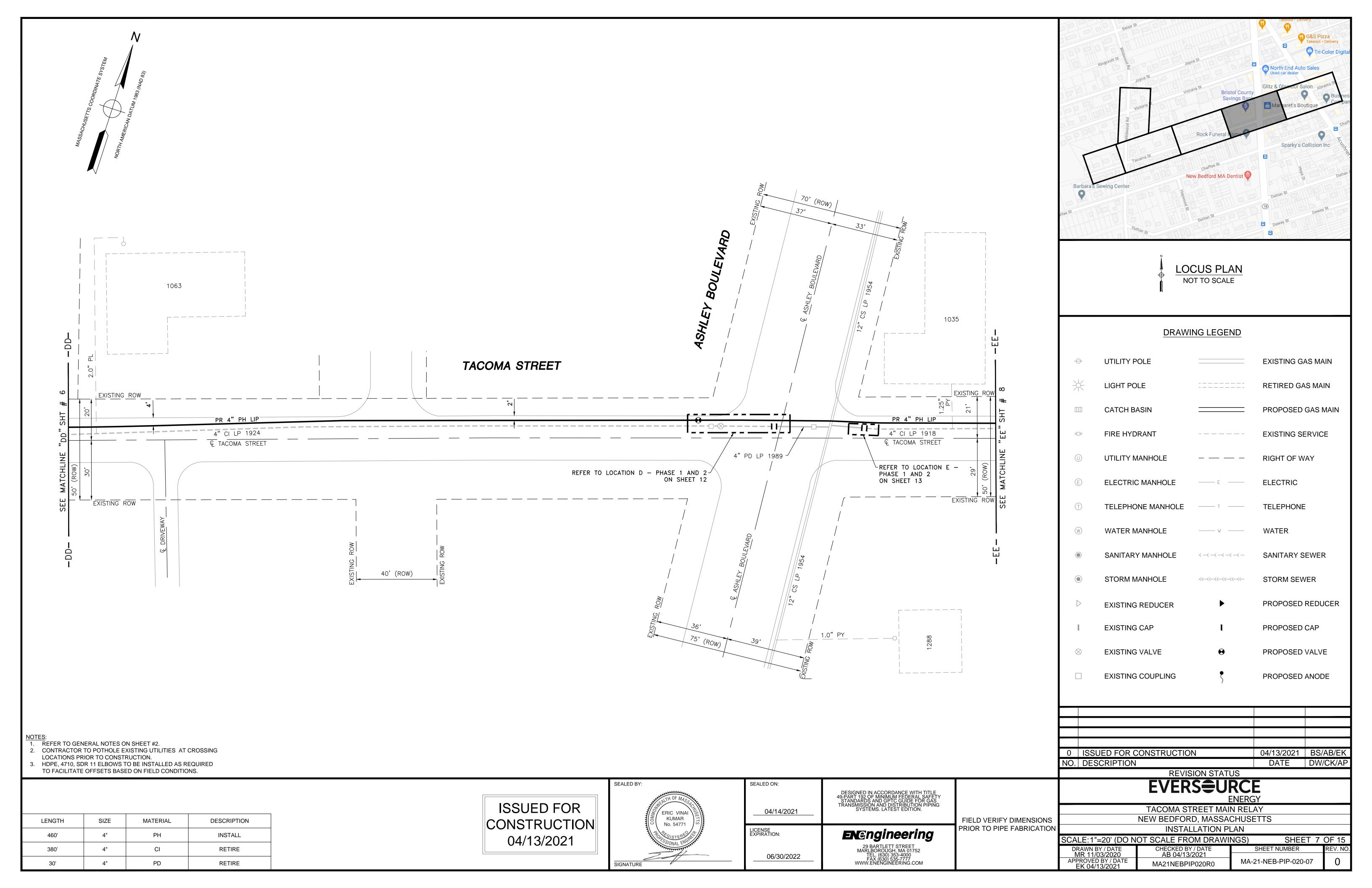
EVERSURCE

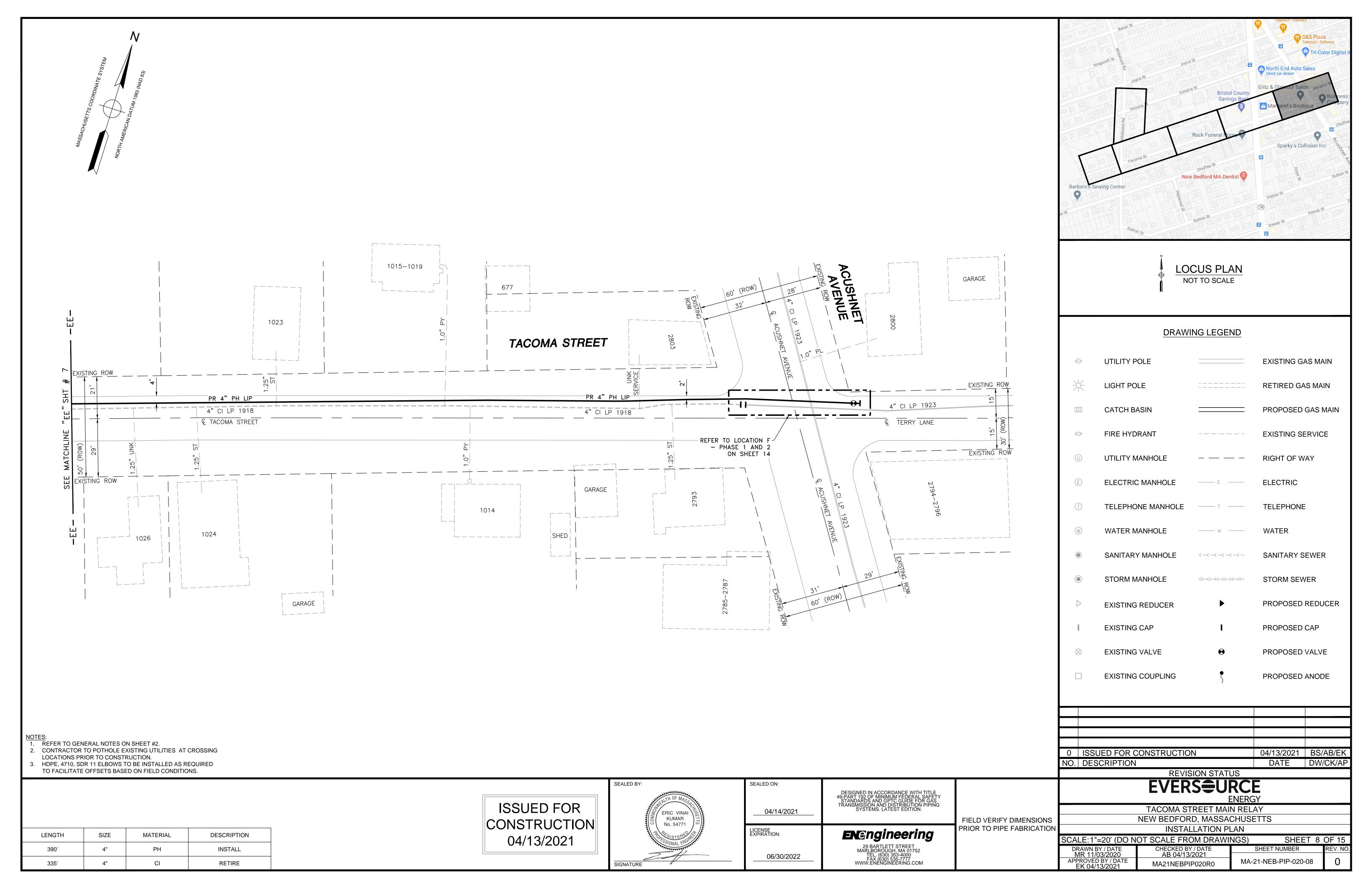
TACOMA STREET MAIN RELAY NEW BEDFORD, MASSACHUSETTS **INSTALLATION PLAN**

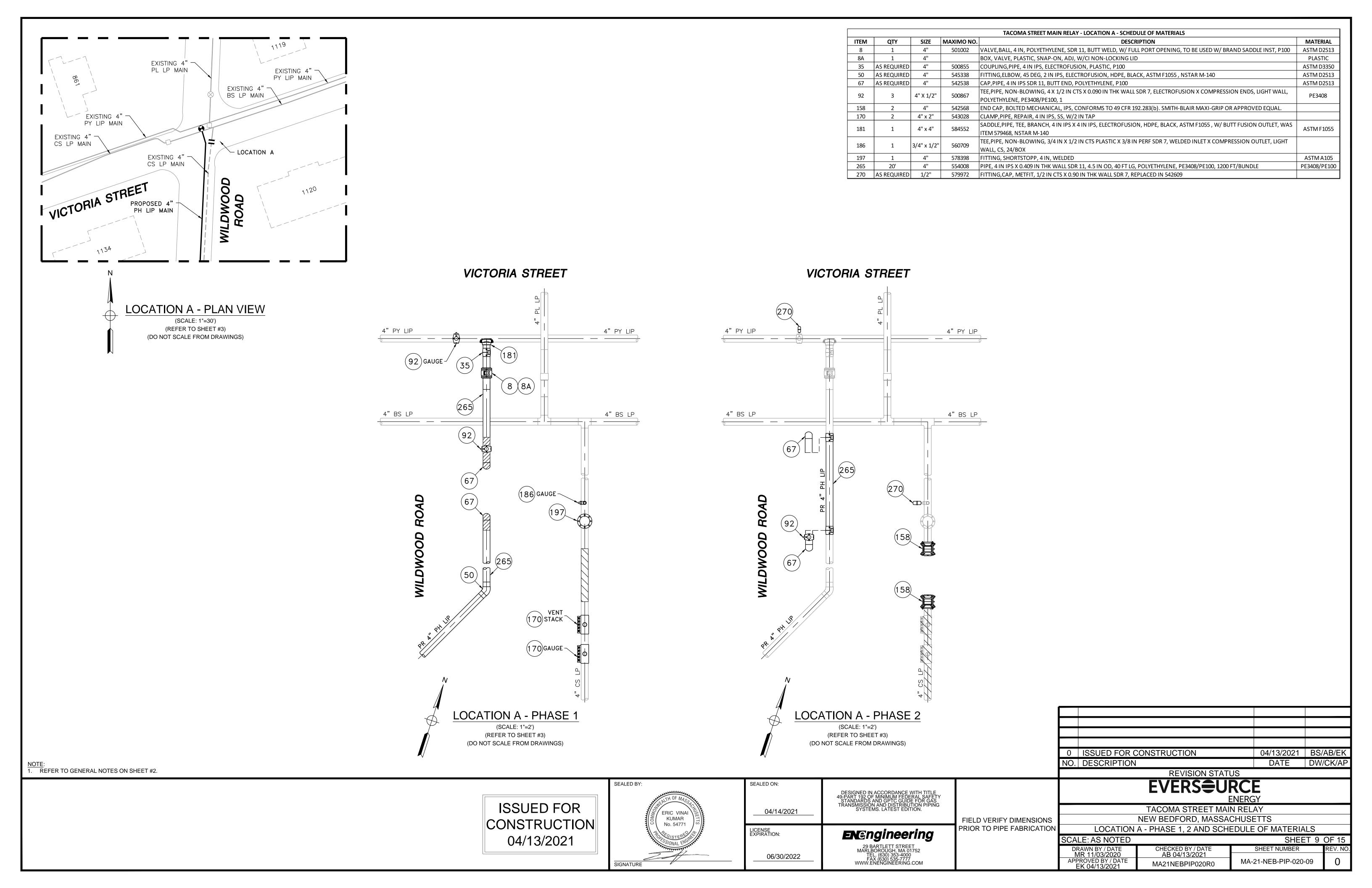
SCALE:1"=20' (DO NOT SCALE FROM DRAWINGS) SHEET 4 OF 1						
DRAWN BY / DATE	CHECKED BY / DATE	SHEET NUMBER REV				
MR 11/03/2020	AB 04/13/2021					
APPROVED BY / DATE	MA21NEBPIP020R0	MA-21-NEB-PIP-020-04	0			

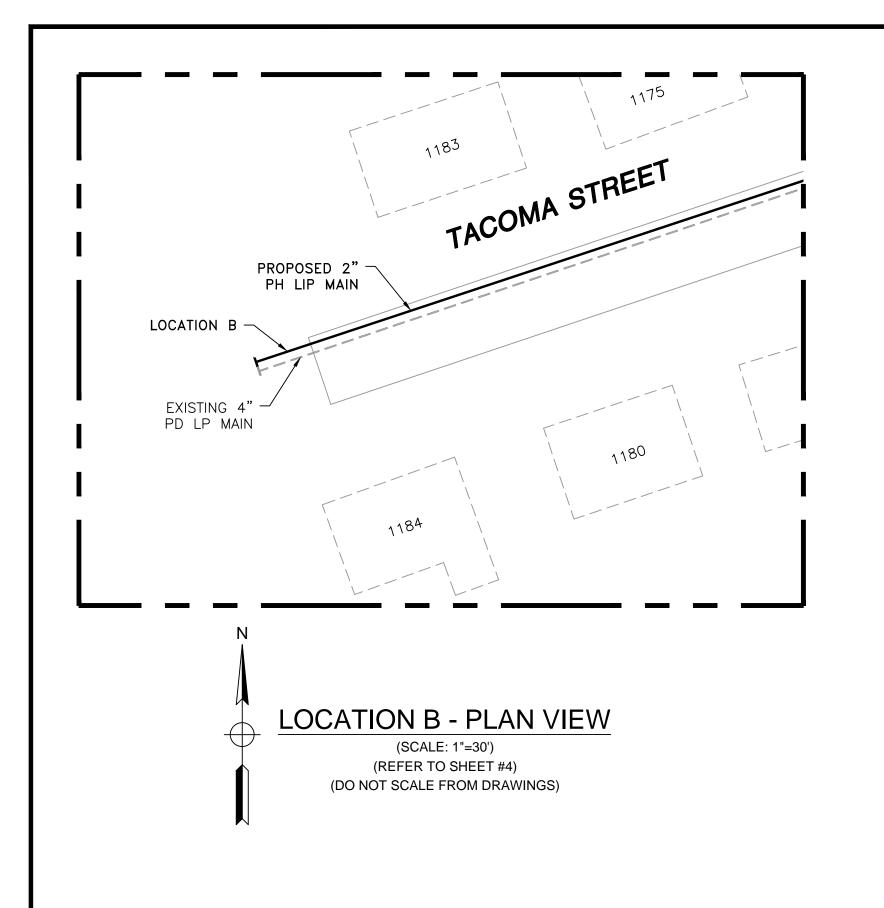


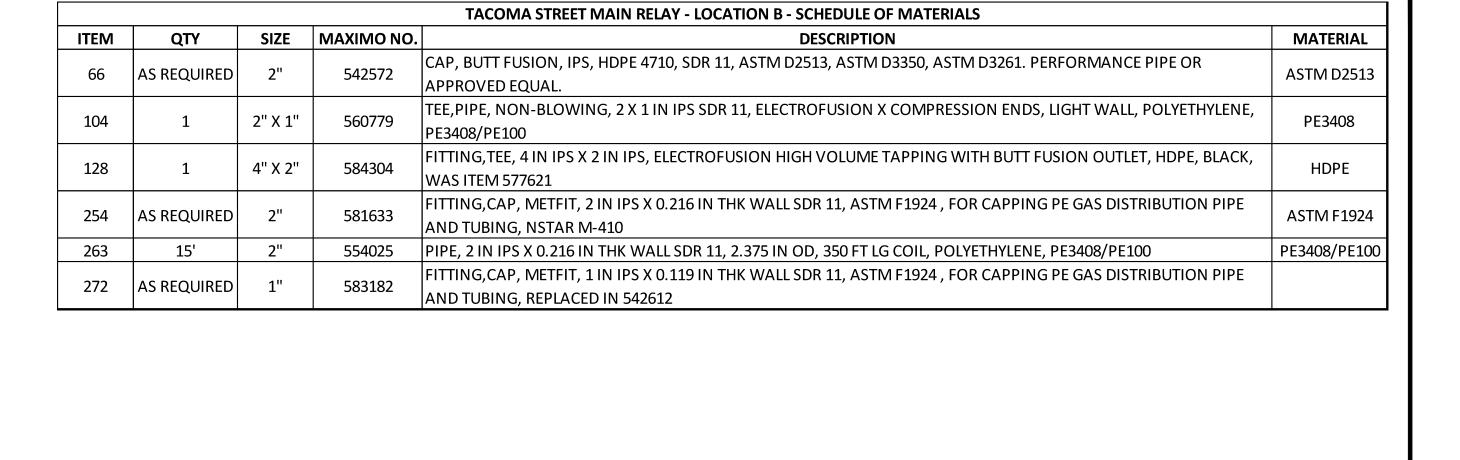


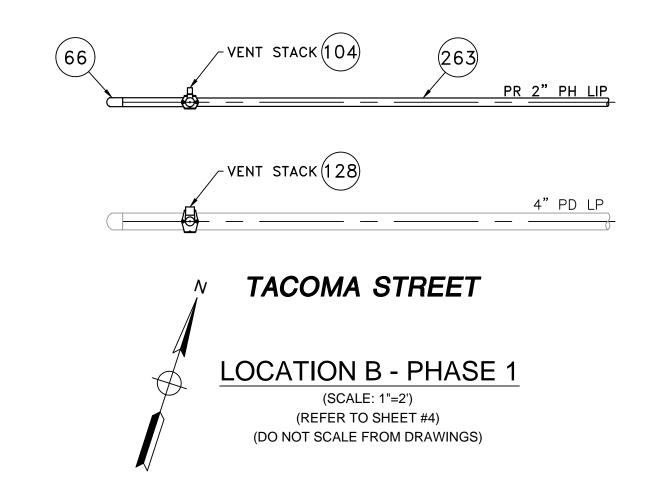


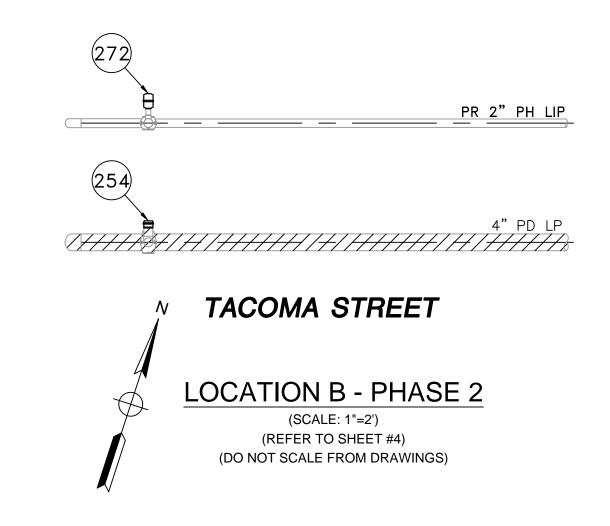


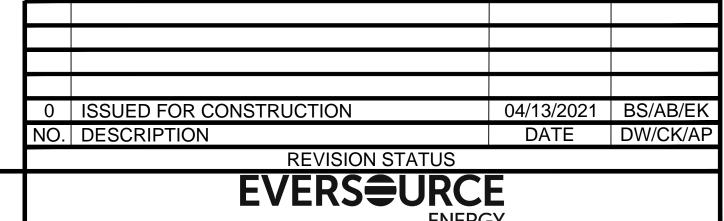












ISSUED FOR CONSTRUCTION 04/13/2021 SEALED BY:

SEALED BY:

ERIC VINAI

KUMAR

No. 54771

SIGNATURE

DESIGNED IN ACCORDANCE WITH TITLE
49-PART 192 OF MINIMUM FEDERAL SAFETY
STANDARDS AND GPTC GUIDE FOR GAS
TRANSMISSION AND DISTRIBUTION PIPING
SYSTEMS. LATEST EDITION.

LICENSE
EXPIRATION:

ENGINEERING

06/30/2022

29 BARTLETT STREET MARLBOROUGH, MA 01752 TEL. (630) 353-4000 FAX (630) 535-7777 WWW.ENENGINEERING.COM FIELD VERIFY DIMENSIONS
PRIOR TO PIPE FABRICATION
SCA

TACOMA STREET MAIN RELAY

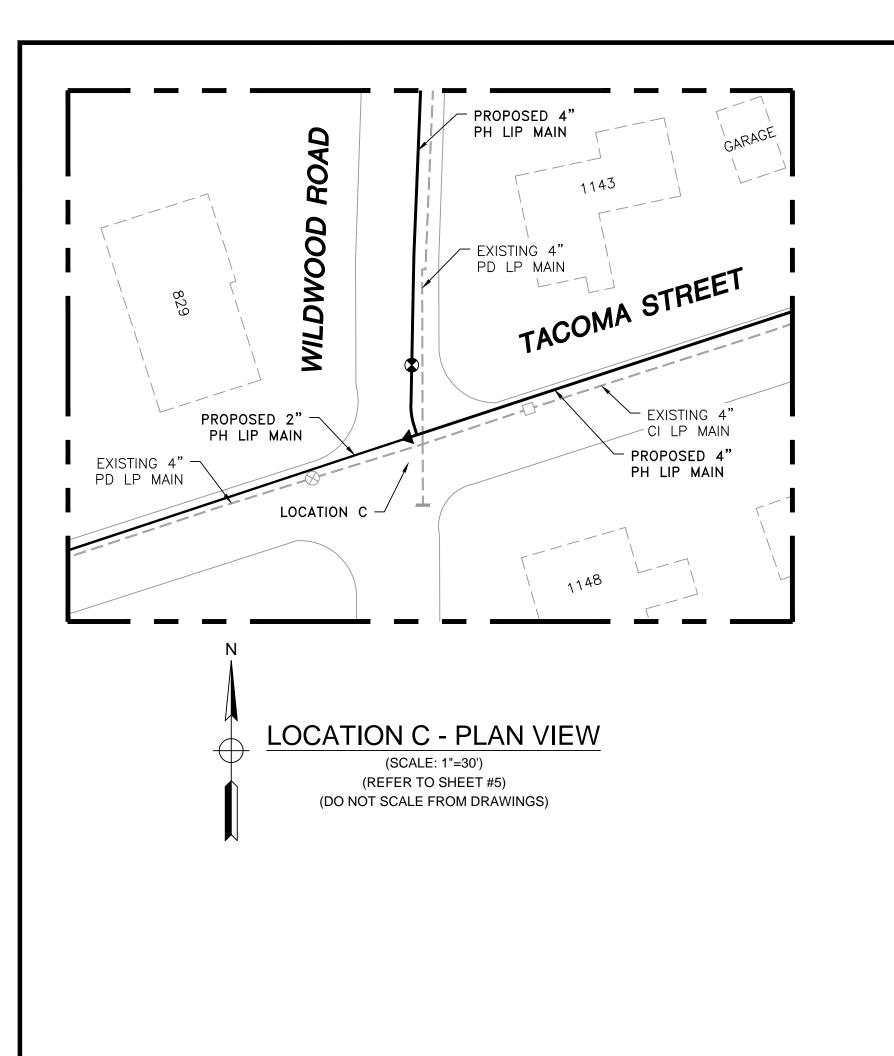
NEW BEDFORD, MASSACHUSETTS

LOCATION B - PHASE 1, 2 AND SCHEDULE OF MATERIALS

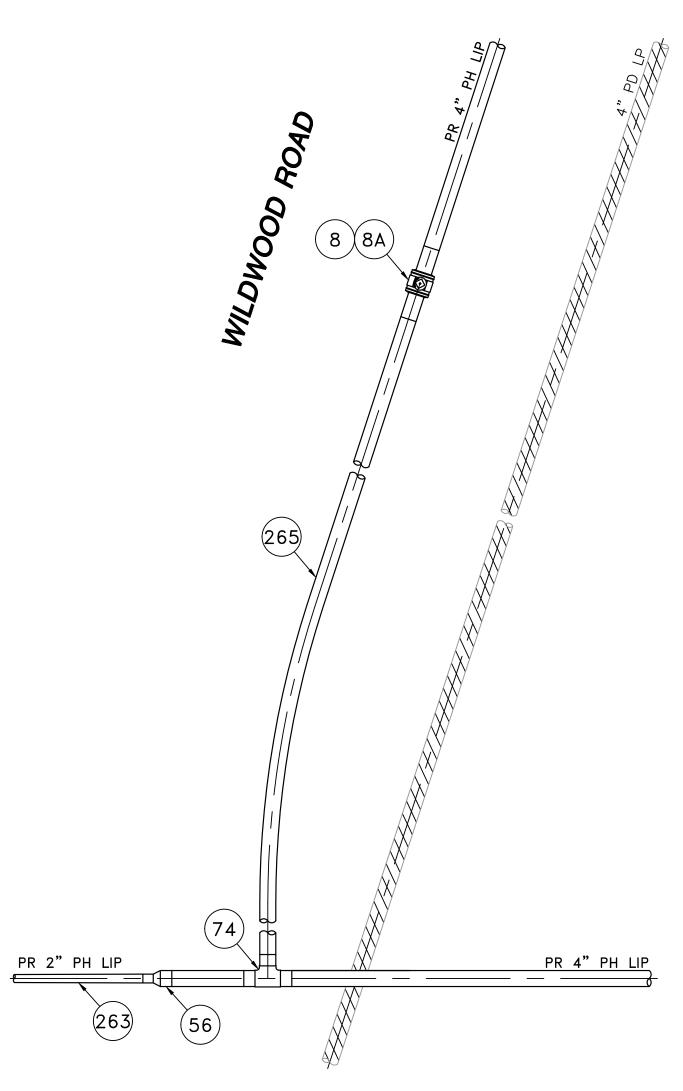
 SCALE: AS NOTED
 SHEET 10 OF 15

 DRAWN BY / DATE MR 11/03/2020
 CHECKED BY / DATE AB 04/13/2021
 SHEET NUMBER SHEET NUMBER
 REV. NO.

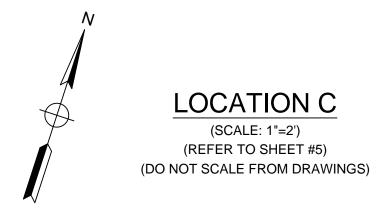
 APPROVED BY / DATE EK 04/13/2021
 MA21NEBPIP020R0
 MA-21-NEB-PIP-020-10
 0



TACOMA 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	
56	1	4" X 2"	1 555593	REDUCER, BUTT FUSION, IPS, HDPE 4710, SDR 11, ASTM D2513, ASTM D3350, ASTM D3261. PERFORMANCE PIPE OR APPROVED EQUAL.	ASTM D2513	
74	1	4"	560679	TEE, PIPE, 4 IN SDR 11, BUTT ENDS, POLYETHYLENE, P100	ASTM D2513	
263	5'	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	40'	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	

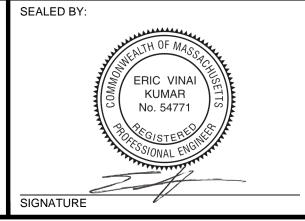


TACOMA STREET



0	ISSUED FOR CONSTRUCTION	04/13/2021	BS/AB/EK		
NO.	DESCRIPTION	DATE	DW/CK/AP		
DEVISION STATUS					

ISSUED FOR CONSTRUCTION 04/13/2021

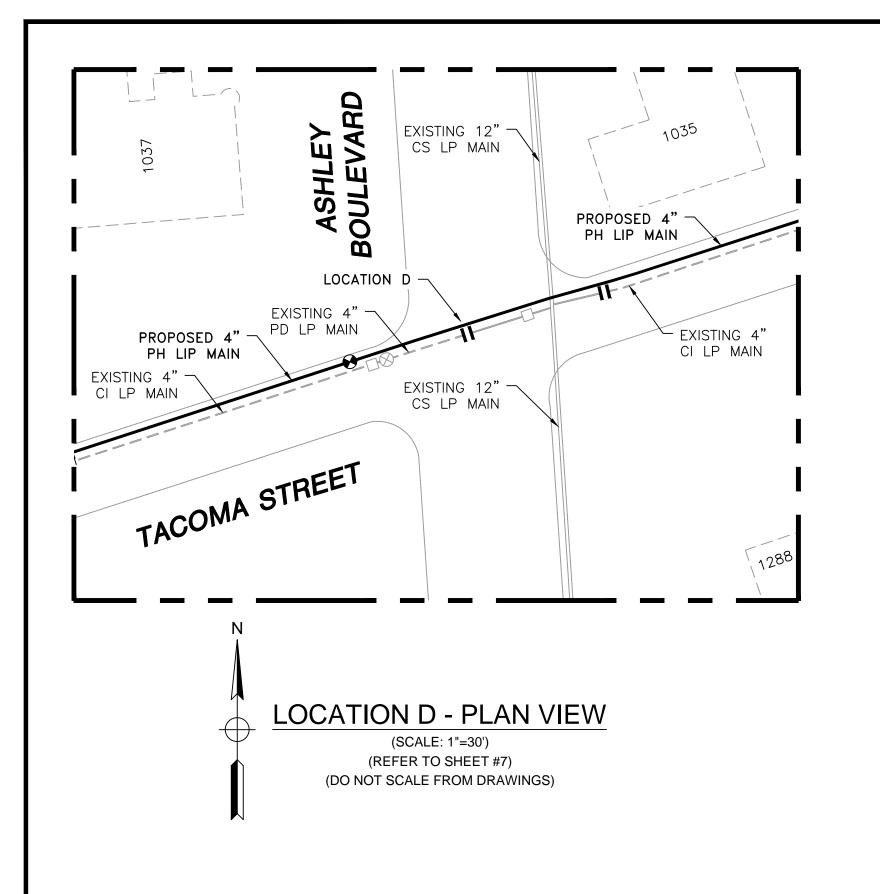


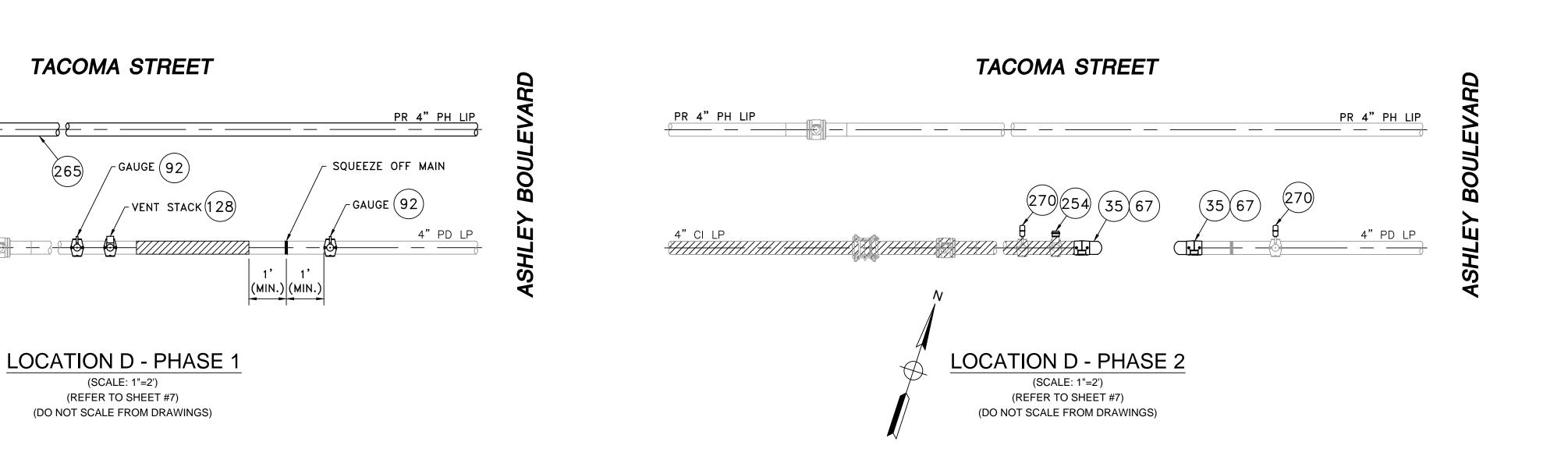
SEALED ON:	
	DESIGNED IN ACCORDANCE WITH TITLE 49-PART 192 OF MINIMUM FEDERAL SAFETY STANDARDS AND GPTC GUIDE FOR GAS
04/14/2021	TRANSMISSIÓN AND DISTRIBUTION PIPING SYSTEMS. LATEST EDITION.
LICENSE EXPIRATION:	EN Engineering
06/30/2022	29 BARTLETT STREET MARLBOROUGH, MA 01752 TEL. (630) 353-4000 FAX (630) 535-7777 WWW.ENENGINEERING.COM

FIELD VERIFY DIMENSIONS PRIOR TO PIPE FABRICATION

EVERS\$URCE TACOMA STREET MAIN RELAY NEW BEDFORD, MASSACHUSETTS LOCATION C AND SCHEDULE OF MATERIALS

SCALE: AS NOTED SHEET 11 OF 15 DRAWN BY / DATE MR 11/03/2020 APPROVED BY / DATE EK 04/13/2021 CHECKED BY / DATE AB 04/13/2021 SHEET NUMBER MA-21-NEB-PIP-020-11 MA21NEBPIP020R0





ITEM

8A

35

67

128

254

QTY

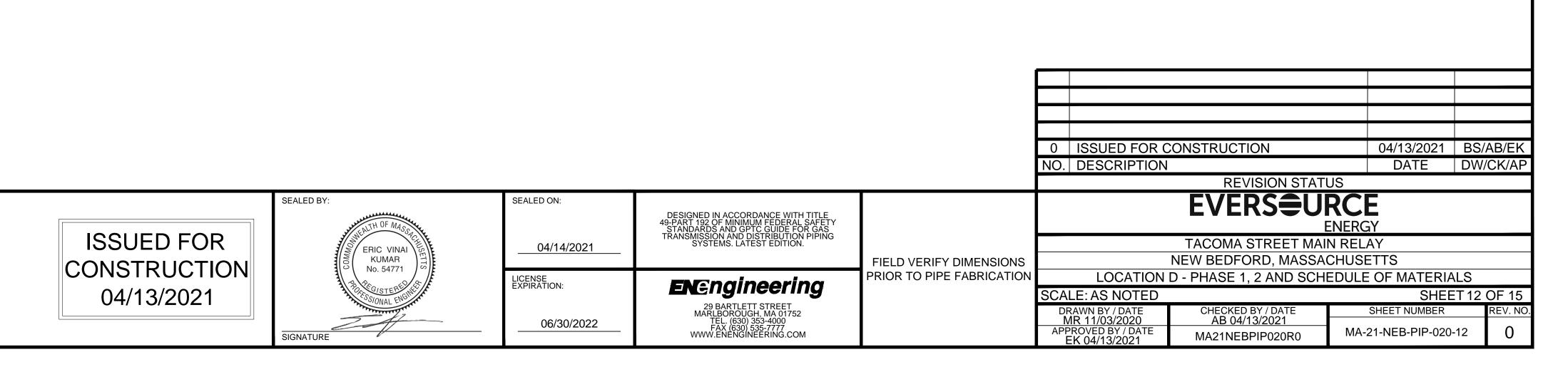
AS REQUIRED

AS REQUIRED

AS REQUIRED

50'

270 AS REQUIRED



TACOMA STREET MAIN RELAY - LOCATION D - SCHEDULE OF MATERIALS

FITTING,CAP, METFIT, 1/2 IN CTS X 0.90 IN THK WALL SDR 7, REPLACED IN 542609

BOX, VALVE, PLASTIC, SNAP-ON, ADJ, W/CI NON-LOCKING LID

COUPLING, PIPE, 4 IN IPS, ELECTROFUSION, PLASTIC, P100

CAP, PIPE, 4 IN IPS SDR 11, BUTT END, POLYETHYLENE, P100

WALL, POLYETHYLENE, PE3408/PE100, 1

DESCRIPTION

TEE,PIPE, NON-BLOWING, 4 X 1/2 IN CTS X 0.090 IN THK WALL SDR 7, ELECTROFUSION X COMPRESSION ENDS, LIGHT

FITTING,TEE, 4 IN IPS X 2 IN IPS, ELECTROFUSION HIGH VOLUME TAPPING WITH BUTT FUSION OUTLET, HDPE, BLACK,

FITTING,CAP, METFIT, 2 IN IPS X 0.216 IN THK WALL SDR 11, ASTM F1924 , FOR CAPPING PE GAS DISTRIBUTION PIPE

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

VALVE,BALL, 4 IN, POLYETHYLENE, SDR 11, BUTT WELD, W/ FULL PORT OPENING, TO BE USED W/ BRAND SADDLE

SIZE | MAXIMO NO. |

4"

4" X 1/2"

4" X 2"

1/2"

501002

584304

581633

579972

INST, P100

WAS ITEM 577621

AND TUBING. NSTAR M-410

MATERIAL

ASTM D2513

PLASTIC

ASTM D3350

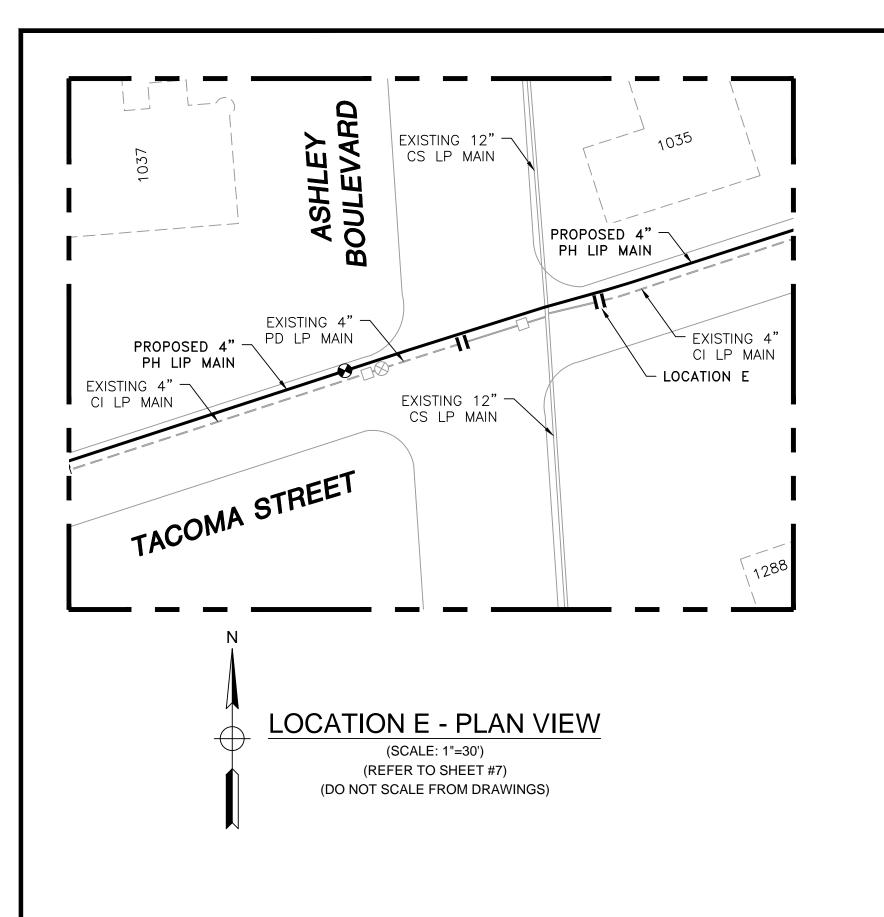
ASTM D2513

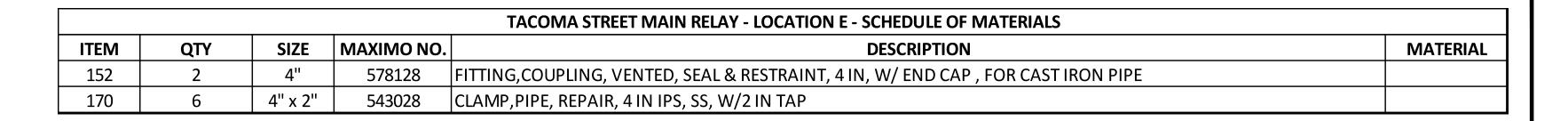
PE3408

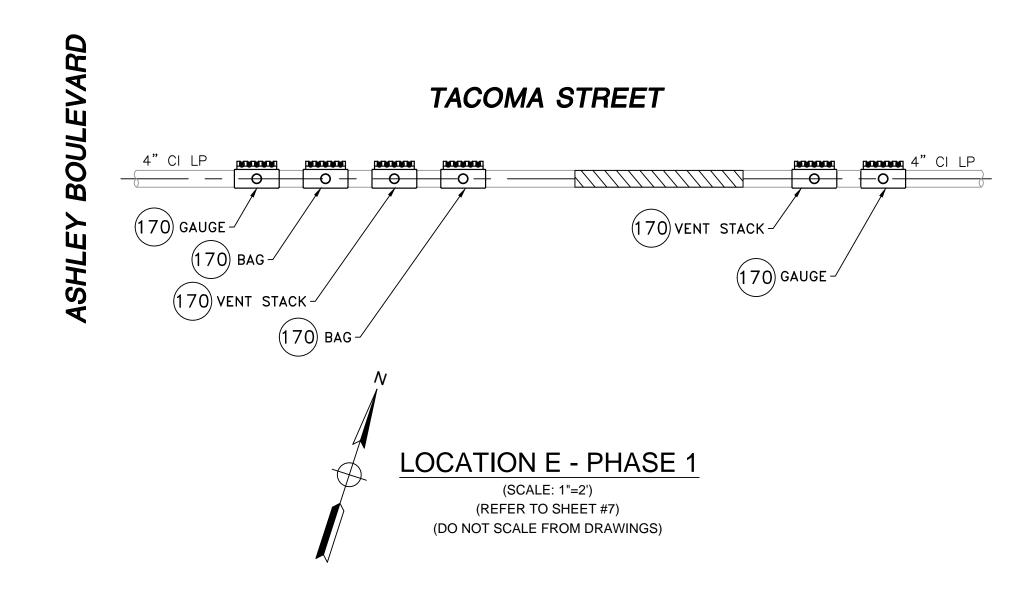
HDPE

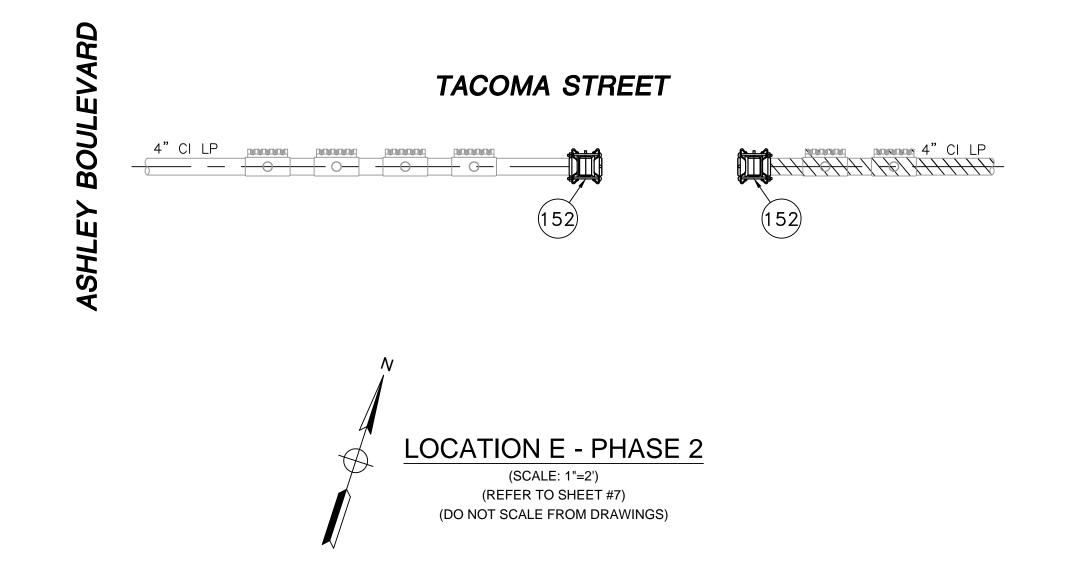
ASTM F1924

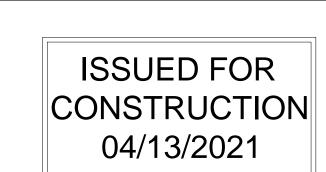
PE3408/PE100

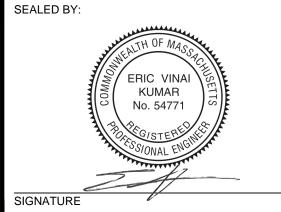












SEALED ON: 04/14/2021 LICENSE EXPIRATION: **EN**Engineering

06/30/2022

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FIELD VERIFY DIMENSIONS PRIOR TO PIPE FABRICATION

0 ISSUED FOR CONSTRUCTION 04/13/2021 BS/AB/EK NO. DESCRIPTION DATE DW/CK/AF **REVISION STATUS**

EVERSURCE

TACOMA STREET MAIN RELAY NEW BEDFORD, MASSACHUSETTS

MA21NEBPIP020R0

LOCATION E - PHASE 1, 2 AND SCHEDULE OF MATERIALS SCALE: AS NOTED SHEET 13 OF 15 DRAWN BY / DATE MR 11/03/2020 APPROVED BY / DATE EK 04/13/2021 CHECKED BY / DATE AB 04/13/2021

MA-21-NEB-PIP-020-13

