

ADDENDUM #1

Manchester-by-the-Sea, MA 2024 Water Main Improvements Project – Pleasant St.

Date of Addendum: June 24, 2024 Bid Due Date: June 26, 2024 @ 1pm

GENERAL UPDATES:

- Contractors must maintain traffic on the project, and more importantly Old Essex Road- this is a dead end neighborhood.
- Contractors shall maintain 2-way traffic patterns during school drop off and pickup on Pleasant.
- All house bypass hoses must be equipped with pressure reducing valves.
- Generally, the watermains included in this project have a service pressure around 110 PSI.

CONTRACTOR QUESTIONS:

Question #1: Is the 12" bypass required to be buried in all locations or only at driveways and crossings?

Response: It is assumed the 12" bypass must be buried at all driveways and crossings.

Question #2: Is ramping permitted for the 12" bypass at driveways?

Response: No it should be assumed ramping will not be allowed unless grading is agreed upon by the Engineer, Homeowner & Town to deter bottoming out of vehicles.

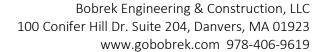
Question #3: Please provide connection detail for the 12" bypass to the existing 16" water main. Are tapping sleeve connections required?

Response: The contractor shall install new tees with restraint to remain in place to feed the bypass with temporary valves. The Pleasant and Pine side has a new 16" valve on new DI to connect, and the School at Pleasant will need a new valve (bid item) to be cut in along with the tee's. The contractor shall complete this task during one (1) night shut down of the 16" main. No daytime shutdowns of the 16" main will be allowed, and it is assumed one (1) main shut down will be provided to achieve bypass installation.

Question #4: Please clarify which streets adjacent to the project require bypass connections to be backfed?

Bypass connections are required for: Greenbrier, Currier, Pulaski, Old Colby, Old Essex, School, Highschool, Millets & The Plains, and Andrews. Willmonton can be backfed after a new valve is installed (bid item).

Question #5: Plans set is missing Schematic Bypass plans for sheets C-200 to C-203, please provide immediately.





The bypass plans provided are for schematic purposes only. The Contractor shall develop a bypass plan for the project and submit to the Engineer for approval. It is assumed Old Essex Rd. bypass shall consist of a 6" minimum on the east side and 2" minimum on the west side.

Question #6: Please issue Plan holders list for this project?

Response: Attached to this Addendum.

Question #7: Please specify the location of AC pipe.

Response: It is assumed that the AC pipe is located at 89 Old Essex Rd. and test pits are required to verify its location.

Question #8: Please specify the mill and overlay limit? Neither plans or specs call out the limits for 1-1/2" Mill and Overlay for either Base Bid or Alternate #1 or Alternate #2.

Response: Limits for mill & overlay are considered full width of the existing roadway covering all watermain improvements within the Limit of Work.

Question #9: Were there any borings done on this project? Please share subsurface conditions of the project.

Response: No borings were completed. Old Essex road is remove and replace and it is assumed ledge removal will be minimal.

Question #10: Bid Item #21 under Alternate #1 quantity states 97 LS. Please correct the unit of measure for the same.

Response: Revised bid form attached.

CHANGES TO SPECIFICATIONS:

Bid Form – Addendum #1

ATTACHMENTS:

Planholder list, June 24, 2024

SECTION 00 41 01

BID FORM - ADDENDUM 1

ARTICLE 1 - DEFINED TERMS

1.01 The terms used in this Bid with initial capital letters have the meanings stated in the Instructions to Bidders, the General Conditions and Supplementary Conditions, if any.

ARTICLE 2 – BID RECIPIENT

2.01 This Bid is submitted to:

Manchester-By-The-Sea DPW 10 Central Street, Room 6 Manchester-By-The-Sea, Massachusetts 01944 ATTN: Charles Dam, Public Works Director

2.02 The undersigned Bidder proposes and agrees, if this Bid is accepted, to enter into an Agreement with Owner in the form included in the Bidding Documents to perform all Work as specified or indicated in the Bidding Documents for the prices and within the times indicated in this Bid and in accordance with the other terms and conditions of the Bidding Documents.

ARTICLE 3 – BIDDER'S ACKNOWLEDGEMENTS

- 3.01 Bidder accepts all of the terms and conditions of the Bidding Documents including, without limitation:
 - A. those dealing with disposition of Bid security;
 - B. those included in the Supplementary Instructions to Bidders;
 - C. insurance and bonding requirements (Payment Bond and Performance Bond each equal to 100% of the total Contract Price) set forth in the General Conditions and Supplementary Conditions, if any;
 - D. Contract Times as set forth in the Agreement; and
 - E. provisions for liquidated damages as set forth in the Agreement.
- 3.02 This Bid will remain subject to acceptance for 120 calendar days after the Bid opening or for such longer period of time that Bidder may agree to in writing upon request of Owner.

3.03 Bidder acknowledges receipt of the following Addenda.

<u>Addendum No.</u>	<u>Addendum Date</u>

Bidder acknowledges the representations and certifications included in Section 00 45 05 are made a condition of the Bid.

ARTICLE 4 - BASIS OF BID

4.01 Bidder will complete the Work under Work Authorizations in accordance with the Contract Documents for the following price(s) based on unit prices included in the following schedule. Bidder must complete all items. BID PRICES SHALL EXCLUDE SALES AND USE TAX.

Base Bid Price Form – Pleasant St. Water Main Improvements (Pine St. to School St.)

Item No.	Item Description with Unit or Lump Sum Price in Written Words	Estimated Quantity	Unit Bid Price (Figures)	Total Bid Item Price
1	Mobilization/Demobilization @	1		
	Dollars and Cents PER LUMP SUM	LS		
2a	6" Cement Lined Ductile Iron Pipe	94		
	Dollars and Cents PER LINEAR FOOT	LF		
2b	8" Cement Lined Ductile Iron Pipe @	133		
	Dollars and Cents PER LINEAR FOOT	LF		

Item No.	Item Description with Unit or Lump Sum Price in Written Words	Estimated Quantity	Unit Bid Price (Figures)	Total Bid Item Price
2c	16" Cement Lined Ductile Iron Pipe	190		
	Dollars and Cents PER LINEAR FOOT	LF		
3	Cleaning & Cement Mortar Lining Existing 16" Pipe	2,750		
	Dollars and Cents PER LINEAR FOOT	LF		
4	Lining Pits @	7		
	Dollars and Cents PER EACH	EA		
5a	1" Copper Tubing @	88		
	Dollars and Cents PER LINEAR FOOT	LF		
5b	2" Copper Tubing @	15		
	Dollars and Cents PER LINEAR FOOT	LF		
6a	1" Corporation @	6		
	Dollars and Cents PER EACH	EA		
6a	2" Corporation @	1		
	Dollars and Cents PER EACH	EA		
7a	1" Curb Stop & Box @	6		
	Dollars and Cents PER EACH	EA		
7b	2" Curb Stop & Box	1		
	Dollars and Cents PER EACH	EA		

Item No.	Item Description with Unit or Lump Sum Price in Written Words	Estimated Quantity	Unit Bid Price (Figures)	Total Bid Item Price
8a	6" Gate Valve	5		
	@	<u> </u>		
	- 11	EA		
Ola	Dollars and Cents PER EACH			
8b	8" Gate Valve	5		
	@			
	Dollars and Cents PER EACH	EA		
8c	16" Gate Valve			
	@	10		
		F.A.		
	Dollars and Cents PER EACH	EA		
9	Abandon 16" Gate Valve	1		
	@	<u>+</u>		
		EA		
- 10	Dollars and Cents PER EACH			
10	Hydrants	4		
	@			
	Dollars and Cents PER EACH	EA		
11	Fittings			
	@	7450		
	Dollars and Cents PER LBS	LBS		
12	Temporary Trench Pavement (4")			
	@	40		
	l W			
	Dollars and Cents PER TON	TON		
13	1 1/2" Mill and Overlay			
	@	7962		
		SY		
	Dollars and Cents PER SQUARE YARD	31		
14	Unclassified Excavation	326		
	@	320		
		CY		
15-	Dollars and Cents PER CUBIC YARD			
15a	Rock Removal	50		
	@	-		
		CY		
	Dollars and Cents PER CUBIC YARD			

Item No.	Item Description with Unit or Lump Sum Price in Written Words	Estimated Quantity	Unit Bid Price (Figures)	Total Bid Item Price
15b	Rock Removal Adjustment @	50		
	Dollars and Cents PER CUBIC YARD	СҮ		
16	AC Pipe Removal & Disposal @	88		
	Dollars and Cents PER LINEAR FOOT	LF		
17	Erosion Control @	1		
	Dollars and Cents PER LUMP SUM	LS		
18	Project Closeout @	1		
	Dollars and Cents PER LUMP SUM	LS		
19	Owner's Contingency Allowance for Police Details @ Fifty Thousand	1	\$50,000	\$50,000
	Dollars and0 Cents PER ALLOWANCE	AL	400,000	
20	Traffic Management @	1		
	Dollars and Cents PER LUMP SUM	LS		
21	Loam & Seed @	1		
	Dollars and Cents PER LUMP SUM	LS		
22	Water Distribution Bypass @	1		
	Dollars and Cents PER LUMP SUM	LS		<u> </u>
23	Test Pit @	5		
	Dollars and Cents PER EA	EA		

TOTAL BASE BID PRICE (based on Unit Price Schedule above):

Alternate #1 Bid Price Form – Old Essex Rd Water Main Replacement (Pleasant St. to Blue Heron Ln.)

	Item Description with Unit or Lump Sum Price in	Estimated	Unit Bid Price	Total Bid Item
Item No.	Written Words	Quantity	(Figures)	Price
2a	6" Cement Lined Ductile Iron Pipe	9.0		
	@	86		
	Dollars and Cents PER LINEAR FOOT	LF		
2b	8" Cement Lined Ductile Iron Pipe			
	·	2268		
	@			
		LF		
	Dollars and Cents PER LINEAR FOOT			
5a	1" Copper Tubing	762		
	@	702		
		LF		
	Dollars and Cents PER LINEAR FOOT			
6	1" Corporation	39		
	@			
	Dollars and Conts DED FACIL	EA		
7a	Dollars and Cents PER EACH 1" Curb Stop & Box			
74	@	39		
	Dollars and Cents PER EACH	EA		
7b	2" Curb Stop & Box	_		
	@	1		
		Ε.Δ.		
	Dollars and Cents PER EACH	EA		
8a	6" Gate Valve	4		
	@	4		
		EA		
_	Dollars and Cents PER EACH	_, ,		
8B	8" Gate Valve	4		
	@			
		EA		
10	Dollars and Cents PER EACH			
10	Hydrants	2		
	@			
	D. II	EA		
	Dollars and Cents PER EACH			

Item No.	Item Description with Unit or Lump Sum Price in Written Words	Estimated Quantity	Unit Bid Price (Figures)	Total Bid Item Price
11	Fittings	2522		
	@	2500		
	Dollars and Cents PER LBS	LBS		
12	Temporary Trench Pavement (4")			
		300		
	@			
	Dollars and Cents PER TON	TON		
13	1 1/2" Mill and Overlay			
15	1 1/2 Williand Overlay	6,958		
	@			
		SY		
	Dollars and Cents PER SQUARE YARD	51		
14	Unclassified Excavation	1,750		
	@	,		
		CY		
45-	Dollars and Cents PER CUBIC YARD			
15a	Rock Removal	250		
	@			
	Dollars and 0 Cents PER CUBIC YARD	CY		
15b	Rock Removal Adjustment			
155	@	250		
	Dollars and Cents PER CUBIC YARD	CY		
17	Erosion Control			
	@	1		
		1.6		
	Dollars and Cents PER LUMP SUM	LS		
19	Owner's Contingency Allowance for Police Details	1		
	@ Thirty-Two Thousand	<u>.</u>	\$32,000	\$32,000
		AL	332,000	732,000
	Dollars and0 Cents PER LUMP SUM	AL		
20	Traffic Management	1		
	@			
		LS		
24	Dollars and Cents PER LUMP SUM			
21	Loam & Seed	1		
	@			
	Dellars and Conta DED LUMA CUMA	LS		
	Dollars and Cents PER LUMP SUM			

Item No.	Item Description with Unit or Lump Sum Price in Written Words	Estimated Quantity	Unit Bid Price (Figures)	Total Bid Item Price
22	Water Distribution Bypass @	1		
	Dollars and Cents PER LUMP SUM	LS		
23	Test Pit @	5		
	Dollars and Cents PER EA	EA		

TOTAL ALTERNATE #1 BID PRICE (based on Unit Price Schedule above):

Alternate #2 Bid Price Form — Pleasant St. and Arbella St. Water Main Improvements (School St to Lincoln St.)

	Item Description with Unit or Lump Sum Price in	Estimated	Unit Bid Price	Total Bid Item
Item No.	Written Words	Quantity	(Figures)	Price
2a	6" Cement Lined Ductile Iron Pipe			
	@	33		
	Dollars and Cents PER LINEAR FOOT	LF		
2b	8" Cement Lined Ductile Iron Pipe	27		
	@	27		
		LF		
2c	Dollars and Cents PER LINEAR FOOT			
20	16" Cement Lined Ductile Iron Pipe	89		
	@			
		LF		
	Dollars and Cents PER LINEAR FOOT	LI		
3	Cleaning & Cement Mortar Lining Existing 16"			
	Pipe	1,152		
	@			
	Dollars and Cents PER LINEAR FOOT	LF		
4	Lining Pit	4		
	@	4		
		EA		
_	Dollars and Cents PER EACH	271		
8a	6" Gate Valve	2		
	@			
		EA		
	Dollars and Cents PER EACH			
8b	8" Gate Valve	1		
	@	1		
		EA		
	Dollars and Cents PER EACH	EA		
8c	16" Gate Valve			
	@	3		
	Dollars and Cents PER EACH	EA		

Item No.	Item Description with Unit or Lump Sum Price in Written Words	Estimated Quantity	Unit Bid Price (Figures)	Total Bid Item Price
10	Hydrants	-		
	_	2		
	@			
	D. II	EA		
11	Dollars and Cents PER EACH			
11	Fittings	3000		
	@			
	Dollars and Cents PER LBS	LBS		
12	Temporary Trench Pavement (4")			
	@	11		
	8			
	Dollars and Cents PER TON	TON		
13	1 1/2" Mill and Overlay			
	@	3548		
	Dollars and Cents PER SQUARE YARD	SY		
14	Unclassified Excavation	63		
	@	62		
		CV		
	Dollars and Cents PER CUBIC FOOT	CY		
15a	Rock Removal	20		
	@	20		
		CY		
	Dollars and Cents PER SQUARE YARD	Ci		
15b	Rock Removal Adjustment	20		
	@	20		
		CY		
	Dollars and Cents PER SQUARE YARD	<u> </u>		
17	Erosion Control	1		
	@	_		
		LS		
	Dollars and Cents PER LUMP SUM			
19	Owner's Contingency Allowance for Police Details	1		
	@ Thirty Thousand		\$30,000	\$30,000
		AL		
22	Dollars andO Cents PER LUMP SUM			
20	Traffic Management	1		
	@			
	Dellars and Court DED LUMAD CLIMA	LS		
	Dollars and Cents PER LUMP SUM			

Item No.	Item Description with Unit or Lump Sum Price in Written Words	Estimated Quantity	Unit Bid Price (Figures)	Total Bid Item Price
21	Loam & Seed	1		
	@	T		
		LS		
	Dollars and Cents PER LUMP SUM	LS		
22	Water Distribution Bypass	1		
	@	Т		
		LS		
	Dollars and Cents PER LUMP SUM	13		
23	Test Pit	5		
	@	י		
		EA		
	Dollars and Cents PER EA	EA		

TOTAL ALTERNATE #2 BID PRICE (based on Unit Price Schedule above):	
SUMMARY OF BID PRICES:	
BASE BID: ALT #1:	-
BASE BID + ALT #1:	-
ALT #2:	-
BASE BID + ALT #1 + ALT #2:	_

- 4.03 Unit Prices have been computed in accordance with Paragraph 11.03.A of the General Conditions and Supplementary Conditions, if any.
- 4.04 Bidder acknowledges that estimated quantities are not guaranteed and are solely for the purpose of comparison of Bids, and final payment for unit price items will be based on actual quantities determined and based on the unit prices included above, as provided in the General Conditions and Supplementary Conditions, if any.

4.05 Contract Price Adjustments:

- A. Owner's Contingency Allowance items will be processed per Article 11.02 of the General Conditions.
 - 1. Base Prices for diesel fuel, gasoline, liquid asphalt, and portland cement in cast-in-place concrete to be used for Contract Price Adjustments are established in Section 00 73 73, SC-12.01 per MGL c30s38A.

ARTICLE 5 - TIME OF COMPLETION

- 5.01 Bidder agrees to the Contract Times (Substantial Completion and ready for final payment) as stated in the Agreement.
- 5.02 Bidder accepts the provisions of the Agreement as to liquidated damages.

ARTICLE 6 – ATTACHMENTS TO THIS BID

6.01 The following documents are submitted with and made a condition of this Bid:

00 43 13 Bid Bond – Penal Sum Form

OR

Required Bid security in the form of 5% pf the Bidders Base Price

Supplements:

00 43 93 Bid Submittal Checklist

00 45 05 Bidder's Representations and Certifications including required submittals

00 45 13 Bidder's Qualifications

00 45 19 Non-collusion Affidavit

ARTICLE 7 – BID SUBMITTAL
7.01 This Bid is submitted by:
Fill out <u>ONE</u> of the following sections A, B, C or D as appropriate.
A. Corporation
Corporation Name:
State of incorporation:
Type:
(General Business, Professional, Service, other) By:
By: (Signature – attach evidence of authority to sign)
Name (typed or printed):
Title: (CORPORATE SEAL)
Attest:
Business Address:
Phone & Facsimile Nos:
Email address:
Date of qualification to do business as out-of-state corporation:
B. Limited Liability Company (LLC)
LLC Name:
State in which organized:
By:
(Signature – attach evidence of authority to sign)
Name (typed or printed):
Title:
Business Address:

none & Facsimile Nos:	
mail address:	
Joint Venture	
rst Joint Venturer Name:	
<i>/</i> :	
(Signature – attach evidence of authority to sign)	
ame (typed or printed):	
tle:	
usiness Address:	
none & Facsimile Nos:	
mail address:	
econd Joint Venturer Name:	
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(Signature – attach evidence of authority to sign)	
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usiness Address:	
none & Facsimile Nos:	
mail address:	
ach joint venturer must sign. The manner of signing for each individual, partnership, corporational limited liability company that is a party to the joint venture should be in the manner indicate bove.)	on ed
none & Facsimile Nos:	
mail address:	

2024 Water Main Improvements

D. An Individual Name (typed or printed): By: (Individual's signature) Doing business as: Business Address: Phone & Facsimile Nos: Email address: SUBMITTED ON: EIN/FEIN: Communications concerning this Bid shall be addressed to: Name: Title: _____ Business Address: Phone & Facsimile Nos: Email address: ARTICLE 8 – SUBCONTRACTORS 8.01 This project will ONLY include the following subcontractors: Subcontractor #1 Company Name:

Signing Authority Name:

Issue Date: June 2024

Business Address:	 -
Phone & Facsimile Nos:	
Email address:	
Project Role:	
Subcontractor #2	
Company Name:	
Signing Authority Name:	 _
Business Address:	 -
Phone & Facsimile Nos:	
Email address:	
Project Role:	
Subcontractor #3	
Company Name:	
Signing Authority Name:	 _
Business Address:	 -
Phone & Facsimile Nos:	
Email address:	
Project Role:	

ADD MORE SHEETS AS NECESSARY

Issue Date: June 2024

2024 Water Main Improvements

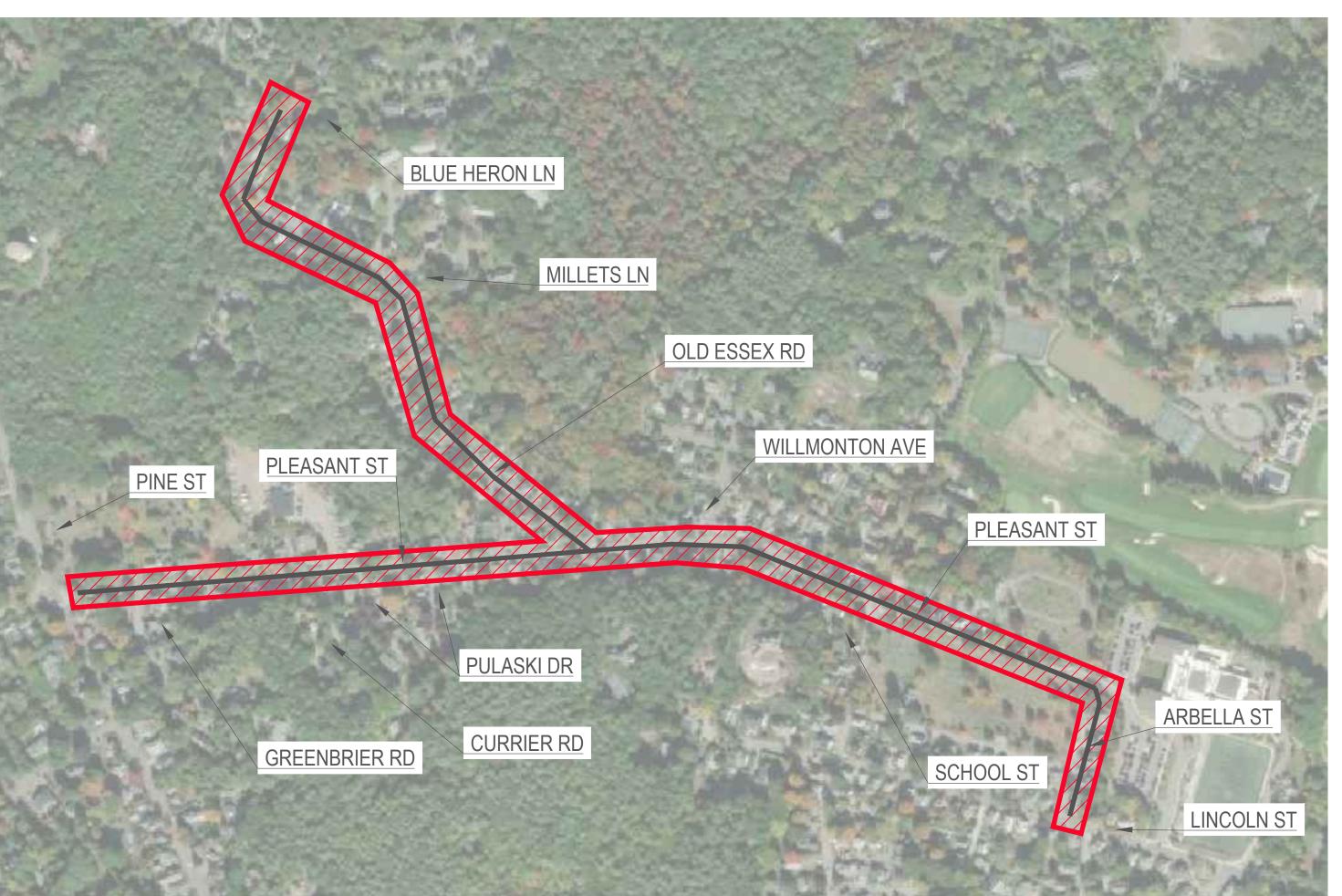
Issue Date: June 2024 Water Main Improvements

END OF SECTION

TOWN OF MANCHESTER BY THE SEA, MA JUNE 2024

2024 WATER MAIN IMPROVEMENTS PROJECT PLEASANT STREET





SHEET INDEX:

SHEET NO: DESCRIPTION:

C-000 COVER SHEET

CIVIL DRAWINGS

C-100 BASE BID
C-101 BASE BID
C-102 BASE BID
C-103 BASE BID ADD ALTERNATE 2
C-104 BASE BID
C-105 BASE BID AND ALTERNATE 1
C-200 ALTERNATE 1
C-201 ALTERNATE 1
C-202 ALTERNATE 1
C-203 ALTERNATE 2
C-300 ALTERNATE 2
C-301 ALTERNATE 2
C-301 ALTERNATE 2
C-400 DETAIL I
C-500 PLEASANT ST BYPASS SCHEMATIC
C-501 PLEASANT ST BYPASS SCHEMATIC
C-502 PLEASANT ST BYPASS SCHEMATIC
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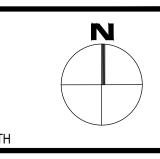
TOWN ADMINISTRATOR

GREGORY FEDERSPIEL

DIRECTOR OF PUBLIC WORKS

TOWN ENGINEER NATHAN DESROSIERS P.E.

BID SET



BOBREK

PO BOX 2185 DANVERS, MA 01923 WWW.gobobrek.COM

MANCHESTER DPV 10 CENTRAL ST MANCHESTER-BY-THE-SEA, MA 01944

CLIENT INF

2024 WATER MAIN MPROVEMENTS PROJECT STEASANT ST

1 ADDENDUM 1 6/24/2
REV DESCRIPTION DATE



STAMP:

COVER

SHEET NAM

C-000

SHT NO:

DR BY: JJS

CHK BY: BTP

PROJ NO: 18-014

DATE: JUNE 2024

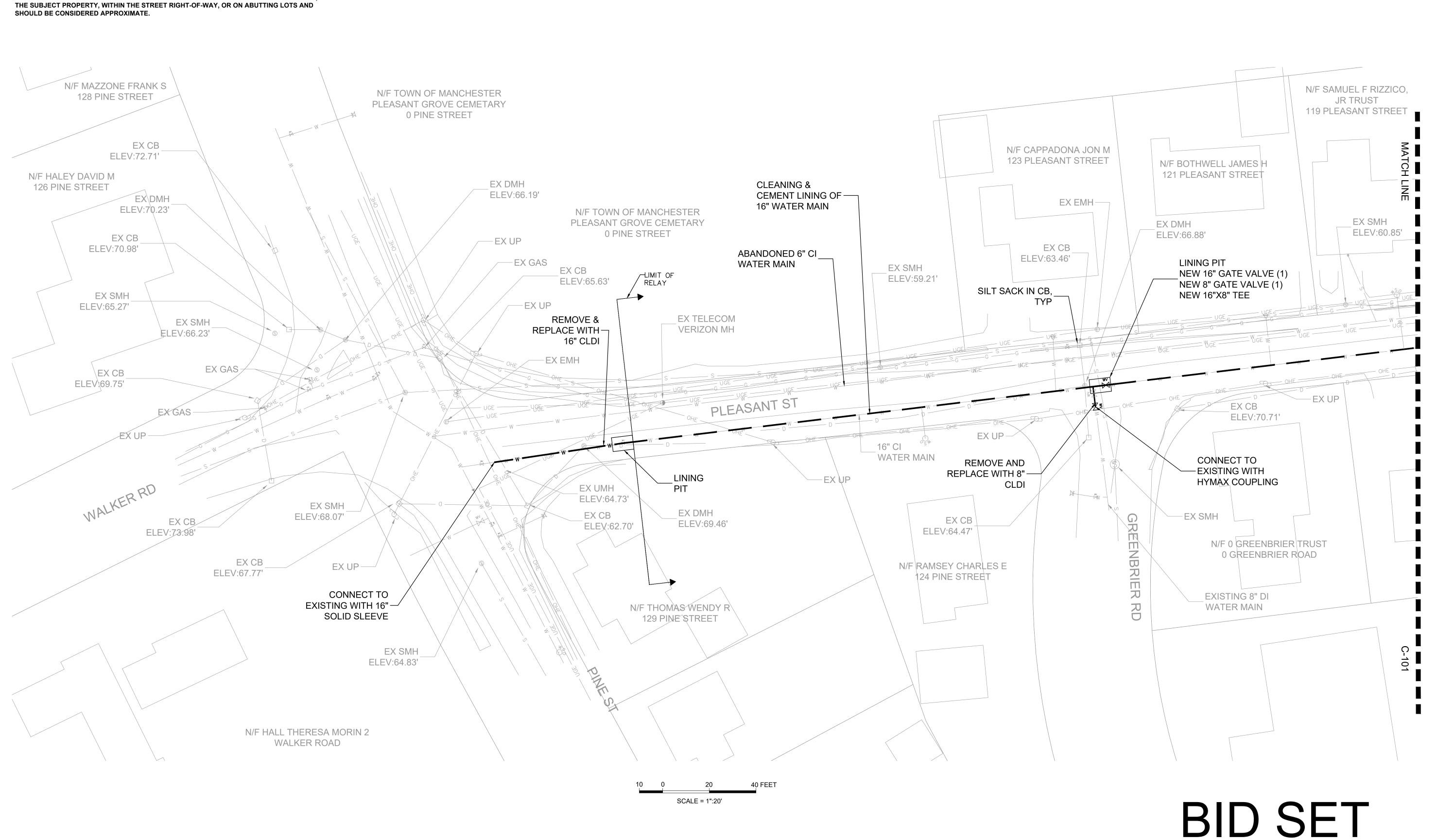
GENERAL NOTES BASE MAPPING OF THE PROJECT SITE WAS OBTAINED FROM MANCHESTER BY THE SEA GIS AND ON-THE-GROUND GPS SURVEY BY BOBREK ENGINEERING & CONSTRUCTION. ALL FEATURES, INCLUDING PROPERTY LINES SHOULD BE CONSIDERED APPROXIMATE. 2. ELECTRIC STRUCTURES AND CONNECTIONS WERE PROVIDED BY NATIONAL GRID, DATED 3/15/24. THEY ARE TO BE CONSIDERED APROXIMATE AND SHOULD BE VERIFIED IN FIELD. 3. TELECOMMUNICATION STRUCTURES AND PIPE INFORMATION PROVIDED BY VERIZON TITLED "PROPERTY OF NEW ENGLAND TELEPHONE & TELEGRAPH COMPANY" WITH LAST REVISION DATED 02/01 & 01/06 4. WETLAND LOCATION WAS OBTAINED FROM FIELD OBSERVATION AND MASSMAPPER AND IS TO BE CONSIDERED APPROXIMATE. CONTACT THE TOWN OF MANCHESTER BY THE SEA FOR THE MARKING OF MANCHESTER MUNICIPAL UTILITIES, CONTACT DIG-SAFE AT 1-888-344-7233 OR 1-800-322-4844 AT LEAST 72 HOURS PRIOR TO EXCAVATION. CONTRACTOR IS TO NOTIFY ENGINEER IMMEDIATELY OF ANY DISCREPANCIES PRIOR TO PROCEEDING WITH PROPOSED WORK. 7. THIS PLAN DOES NOT NECESSARILY DEPICT THE EXACT LOCATION AND SIZE OF ALL UTILITIES WHICH MAY EXIST AT THIS TIME INSIDE OR OUTSIDE OF EXISTING OR PROPOSED BUILDINGS, ON THE SUBJECT PROPERTY, WITHIN THE STREET RIGHT-OF-WAY, OR ON ABUTTING LOTS AND SHOULD BE CONSIDERED APPROXIMATE.

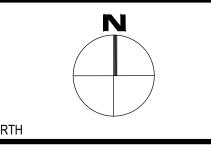
- 8. THE ADJACENT ABUTTER(S) MUST BE NOTIFIED TWO WEEKS PRIOR TO MOBILIZATION ON A ROADWAY AND 48 HOURS PRIOR TO A SCHEDULED SHUTDOWN. NOTIFICATION WILL BE THE RESPONSIBILITY OF THE CONTRACTOR. ASSISTANCE MAY BE PROVIDED BY THE TOWN IS STAFF IS AVAILABLE.
- 9. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING AND RECORDING THE EXACT LOCATION OF EACH PROPOSED UTILITY CONNECTION.
- 10. DURING EXCAVATION AND CONSTRUCTION OF PIPES AND STRUCTURES, TRENCHES MUST BE ADEQUATELY BRACED AND PROTECTED AGAINST CAVE-IN.
- 11. CONTRACTOR SHALL INSTALL 4" TEMPORARY TRENCH PAVEMENT, PER SPECIFICATIONS, AT THE END OF EACH WORK WEEK.
- 12. CONTRACTOR SHALL INSTALL TEMPORARY WATER SERVICE FOR UNINTERRUPTED FIRE AND
- 13. CONTRACTOR SHALL INSTALL EROSION CONTROLS PRIOR TO ANY WORK, AND MAINTAIN.

POTABLE WATER SERVICE TO RESIDENTS IN THE WORK ZONE.

REMOVE AS DIRECTED UPON COMPLETION.

- 14. CONTRACTOR SHALL BURY BYPASS PIPE AT EACH ROADWAY CROSSING AND COMMERCIAL DRIVEWAY OPENING. RESIDENTIAL DRIVEWAYS SHALL BE FILLED AROUND BYPASS PIPE TO CONTINUE VEHICLE ACCESS.
- 15. TRASH DAY IS MONDAY/TUESDAY. CONTRACTOR TO FACILITATE TRASH PICKUP DURING PROJECT.





BOBREK

PO BOX 2185 DANVERS, MA 01923 WWW.gobobrek.COM

MANCHESTER DPW 10 CENTRAL ST MANCHESTER-BY-THE-SEA, MA 01944

CLIENT INFO

2024 WATER MAIN IMPROVEMENTS
PROJECT
PLEASANT ST



DATE

REV DESCRIPTION

STAMP:

PLEASANT ST BASE BID

ET NAME:

SCALE: 1"=20'

C-100

SHT NO:

DR BY: JJS

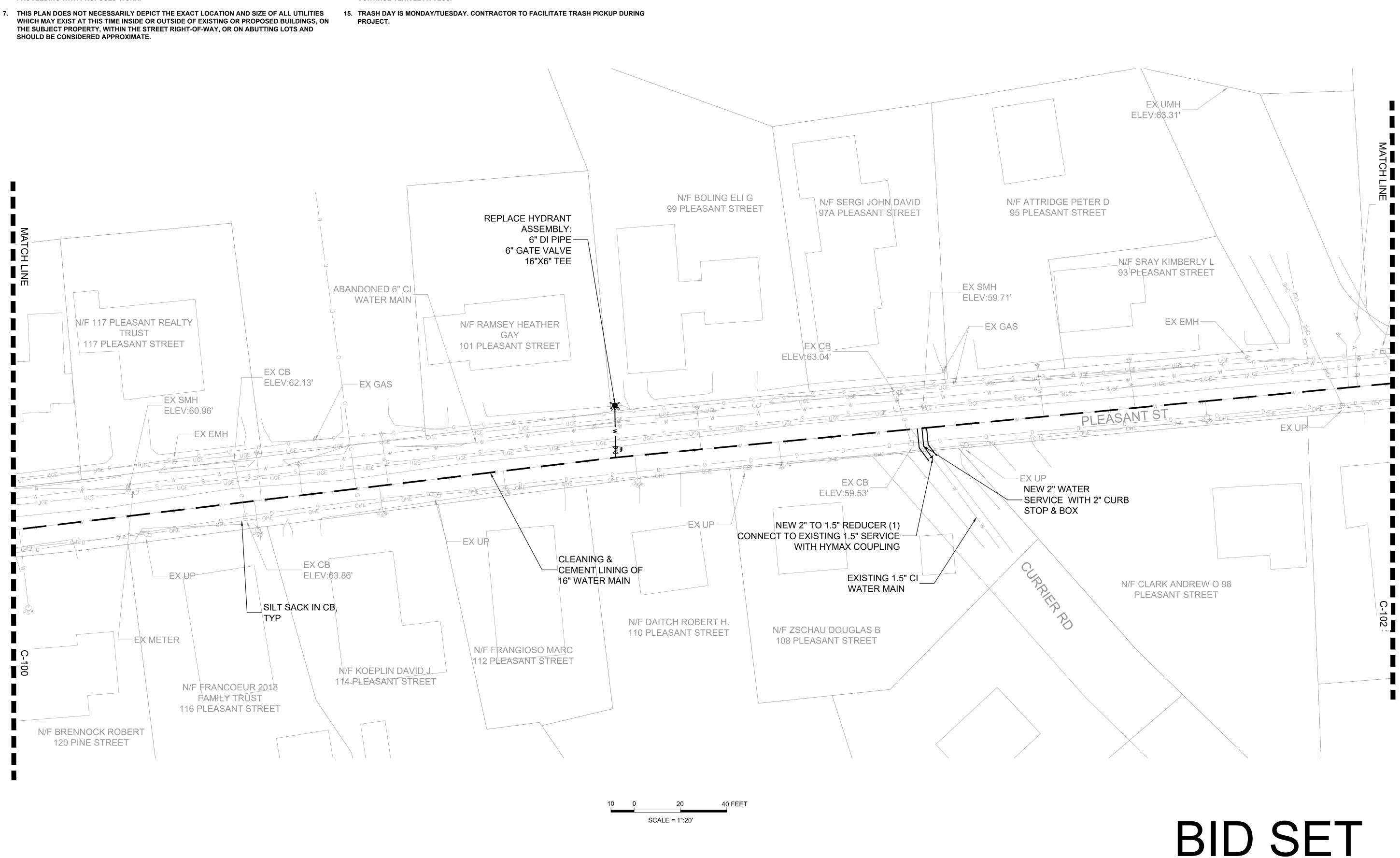
CHK BY: BTP

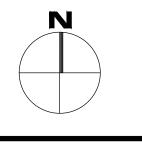
PROJ NO: 18-014

DATE: JUNE 2024

GENERAL NOTES BASE MAPPING OF THE PROJECT SITE WAS OBTAINED FROM MANCHESTER BY THE SEA GIS AND ON-THE-GROUND GPS SURVEY BY BOBREK ENGINEERING & CONSTRUCTION. ALL FEATURES, INCLUDING PROPERTY LINES SHOULD BE CONSIDERED APPROXIMATE. 2. ELECTRIC STRUCTURES AND CONNECTIONS WERE PROVIDED BY NATIONAL GRID, DATED 3/15/24. THEY ARE TO BE CONSIDERED APROXIMATE AND SHOULD BE VERIFIED IN FIELD. 3. TELECOMMUNICATION STRUCTURES AND PIPE INFORMATION PROVIDED BY VERIZON TITLED "PROPERTY OF NEW ENGLAND TELEPHONE & TELEGRAPH COMPANY" WITH LAST REVISION DATED 02/01 & 01/06 4. WETLAND LOCATION WAS OBTAINED FROM FIELD OBSERVATION AND MASSMAPPER AND IS TO 12. CONTRACTOR SHALL INSTALL TEMPORARY WATER SERVICE FOR UNINTERRUPTED FIRE AND BE CONSIDERED APPROXIMATE. 5. CONTACT THE TOWN OF MANCHESTER BY THE SEA FOR THE MARKING OF MANCHESTER MUNICIPAL UTILITIES, CONTACT DIG-SAFE AT 1-888-344-7233 OR 1-800-322-4844 AT LEAST 72 HOURS PRIOR TO EXCAVATION. 6. CONTRACTOR IS TO NOTIFY ENGINEER IMMEDIATELY OF ANY DISCREPANCIES PRIOR TO PROCEEDING WITH PROPOSED WORK. SHOULD BE CONSIDERED APPROXIMATE.

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- POTABLE WATER SERVICE TO RESIDENTS IN THE WORK ZONE.
- 13. CONTRACTOR SHALL INSTALL EROSION CONTROLS PRIOR TO ANY WORK, AND MAINTAIN. REMOVE AS DIRECTED UPON COMPLETION.
- 14. CONTRACTOR SHALL BURY BYPASS PIPE AT EACH ROADWAY CROSSING AND COMMERCIAL DRIVEWAY OPENING. RESIDENTIAL DRIVEWAYS SHALL BE FILLED AROUND BYPASS PIPE TO **CONTINUE VEHICLE ACCESS.**





BOBREK

PO BOX 2185 DANVERS, MA 01923 WWW.gobobrek.COM

MANCHESTER DPW 10 CENTRAL ST MANCHESTER-BY-THE-SEA, MA 01944

CLIENT INFO

MAIN

2024

PROJECT INFO

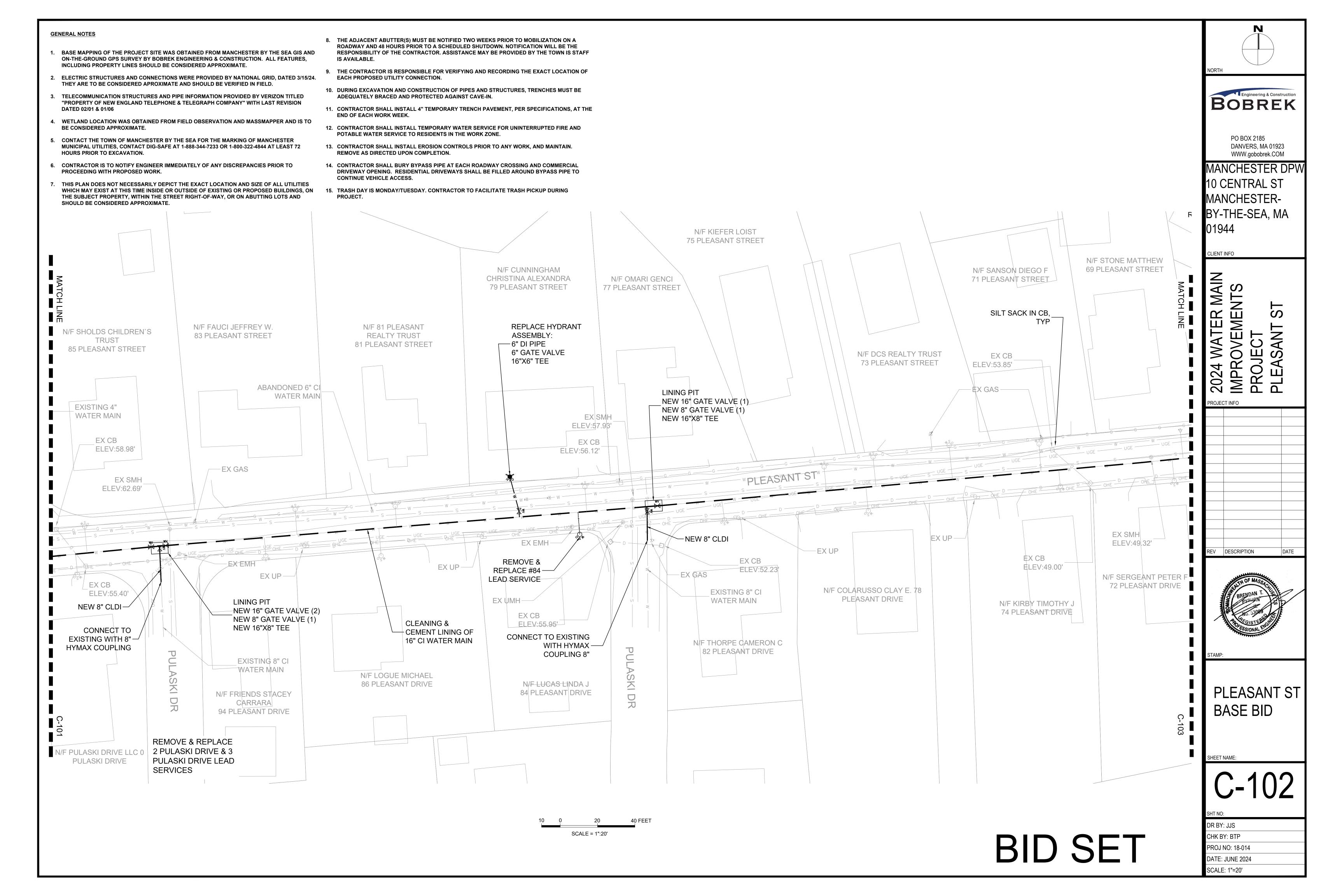
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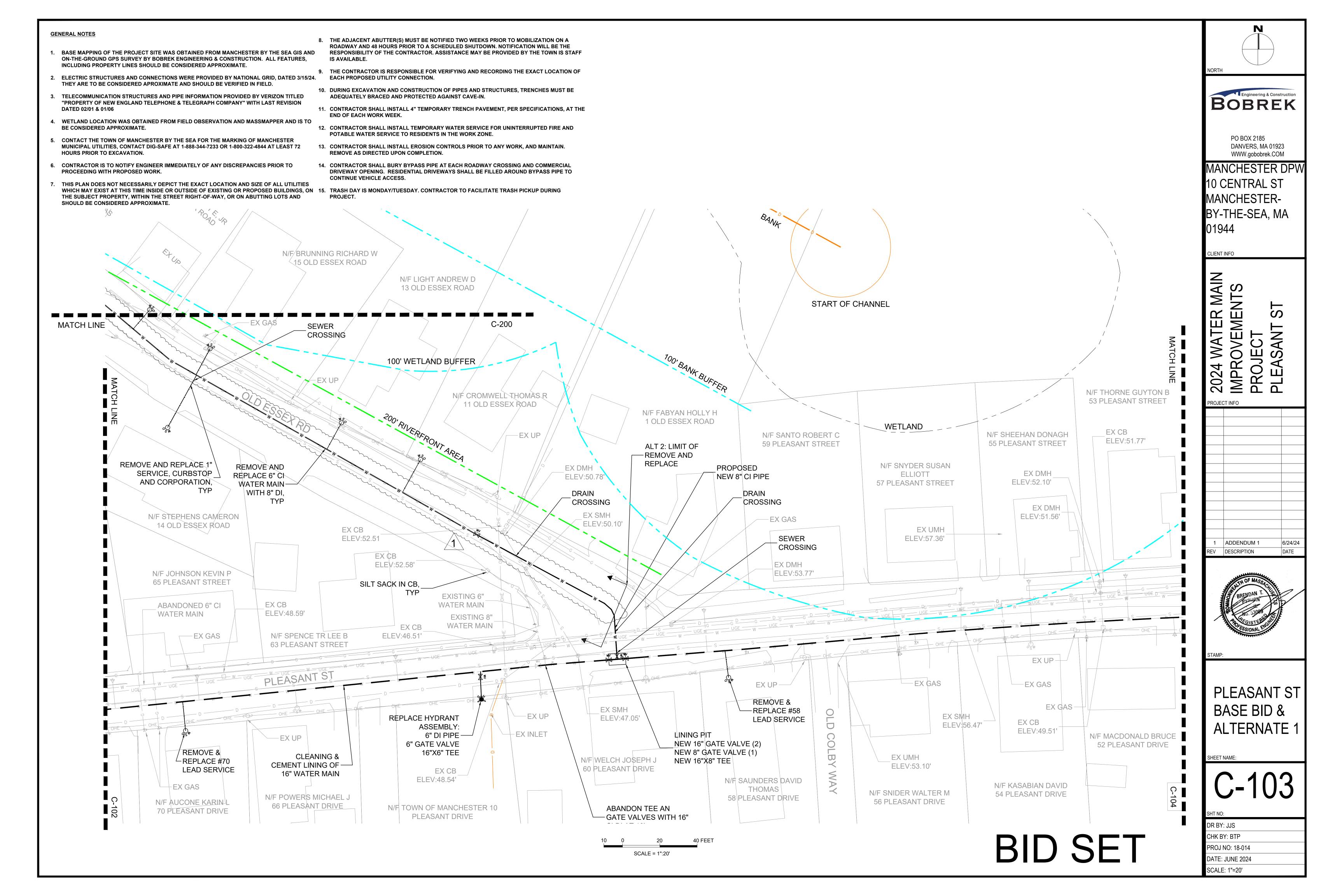
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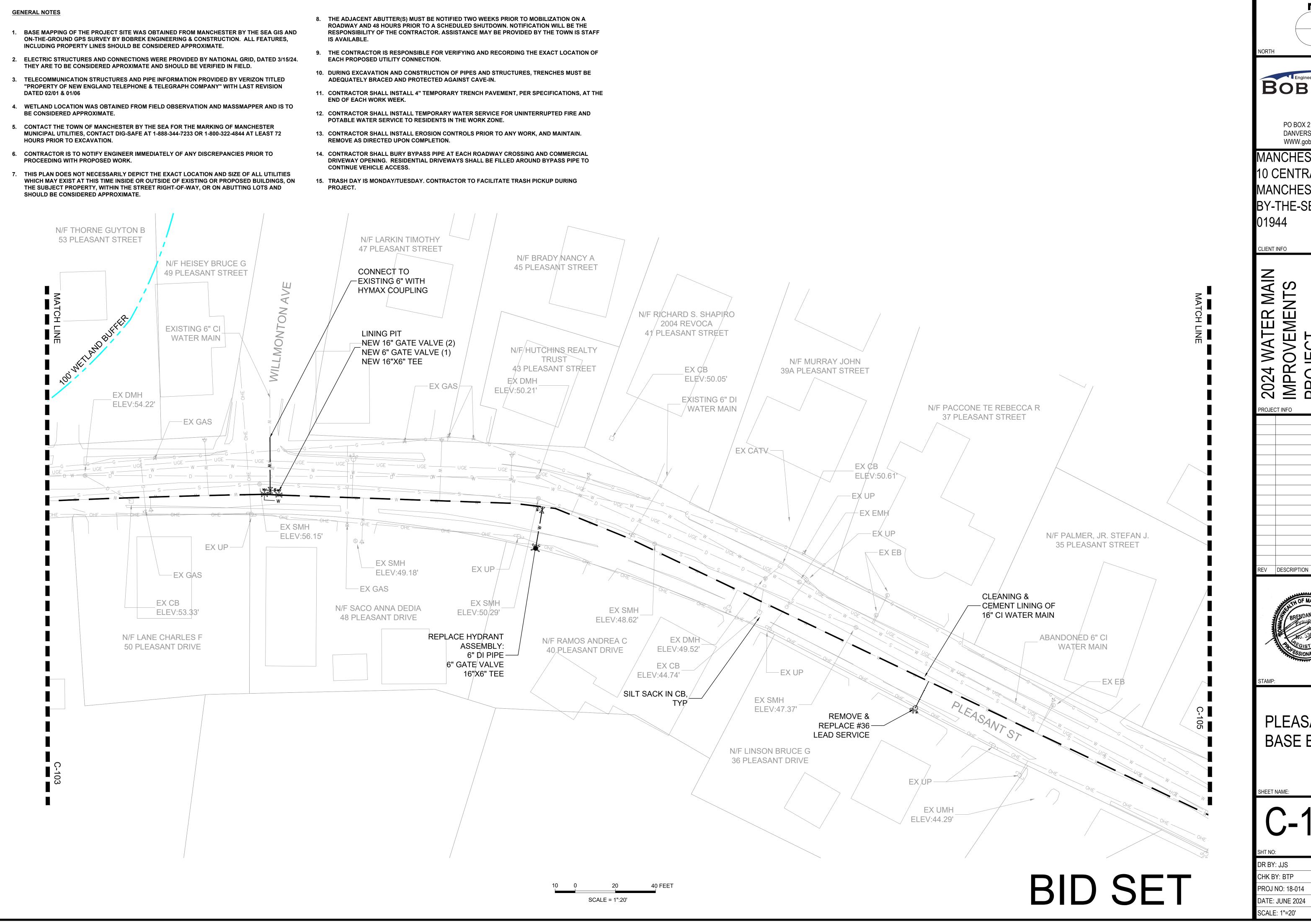
PLEASANT ST BASE BID

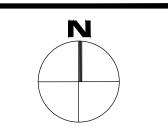
DR BY: JJS CHK BY: BTP PROJ NO: 18-014 DATE: JUNE 2024

SCALE: 1"=20'









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MANCHESTER DPW 10 CENTRAL ST MANCHESTER-BY-THE-SEA, MA

CLIENT INFO

MAIN OVEME W 2024 PROJECT INFO

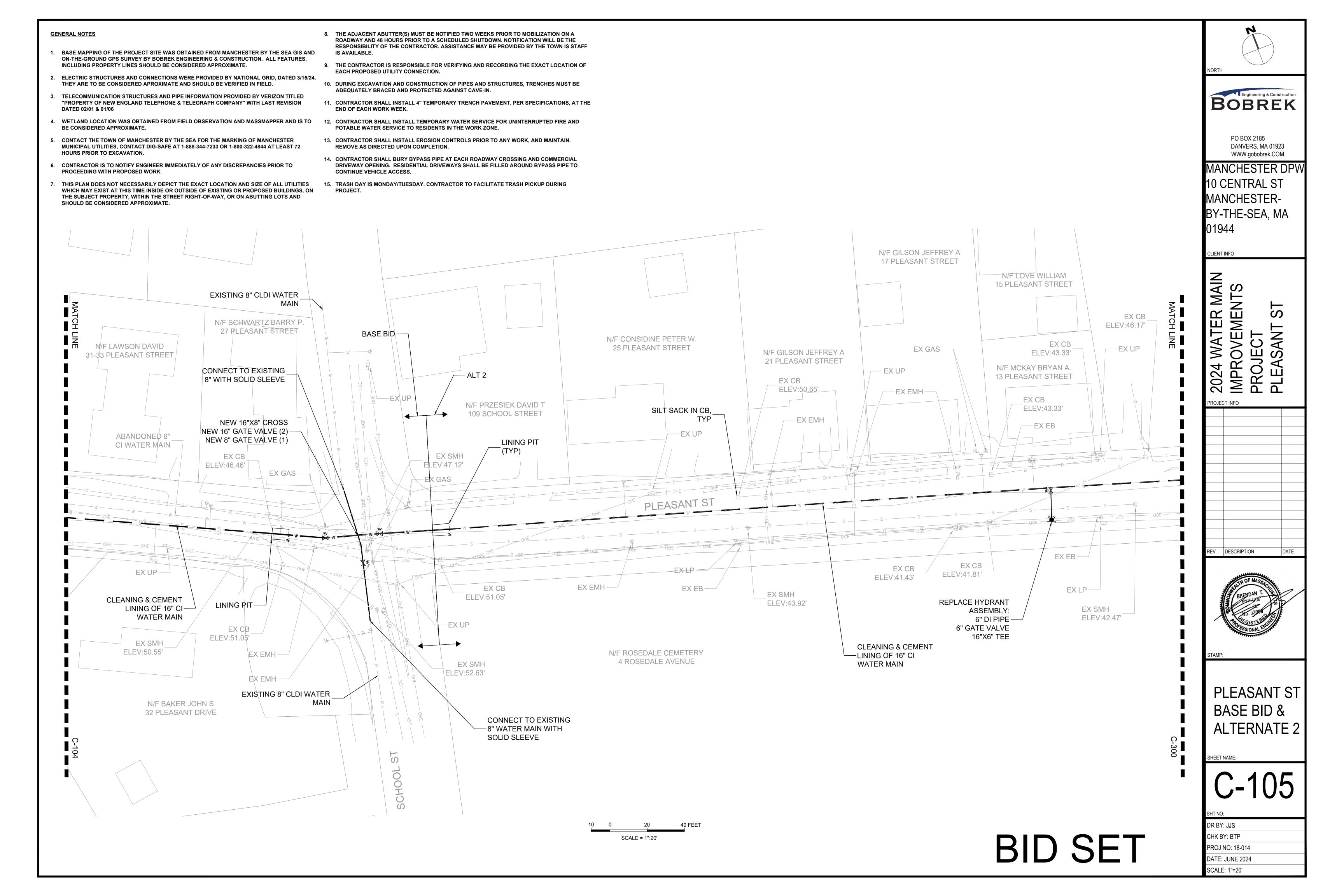


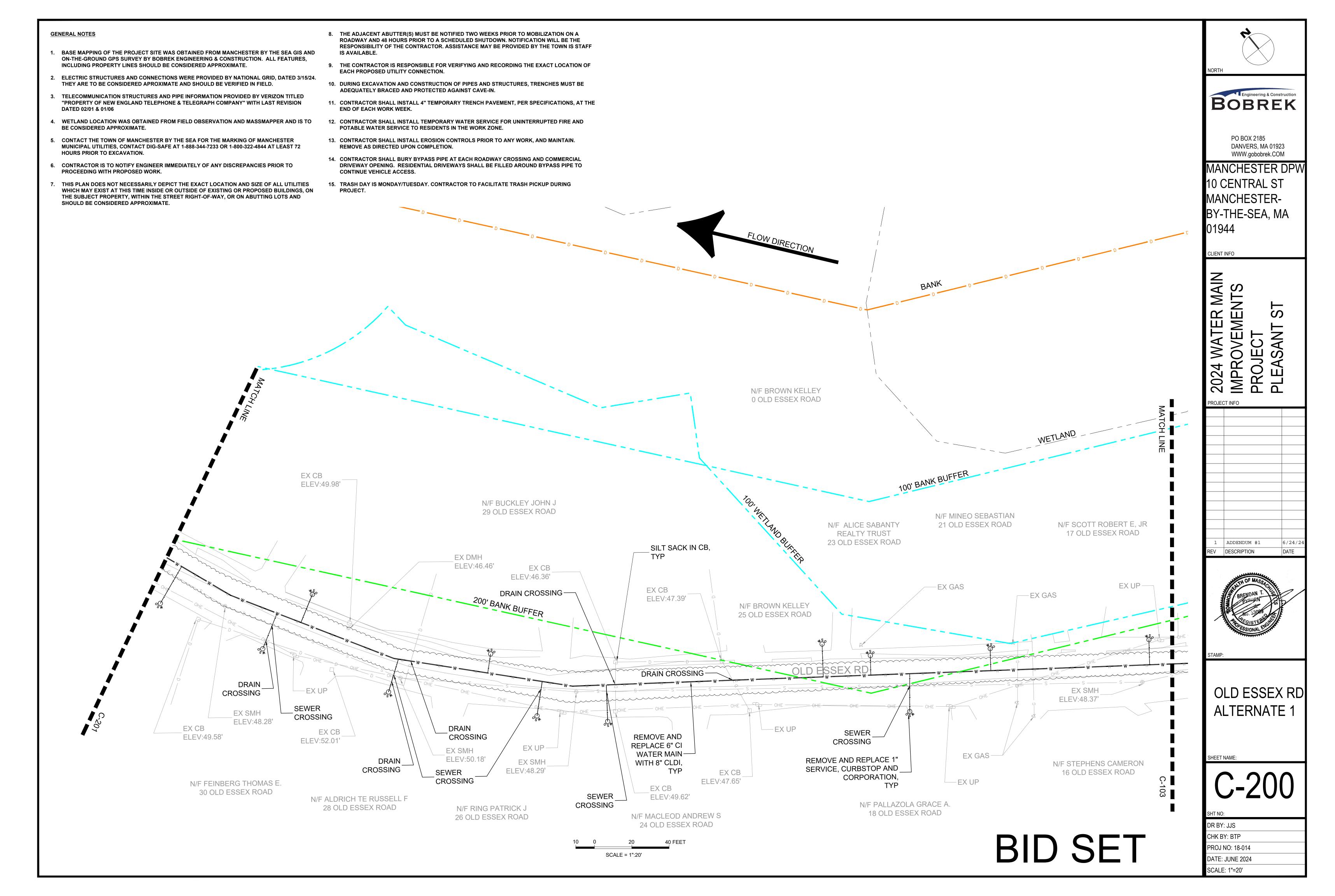
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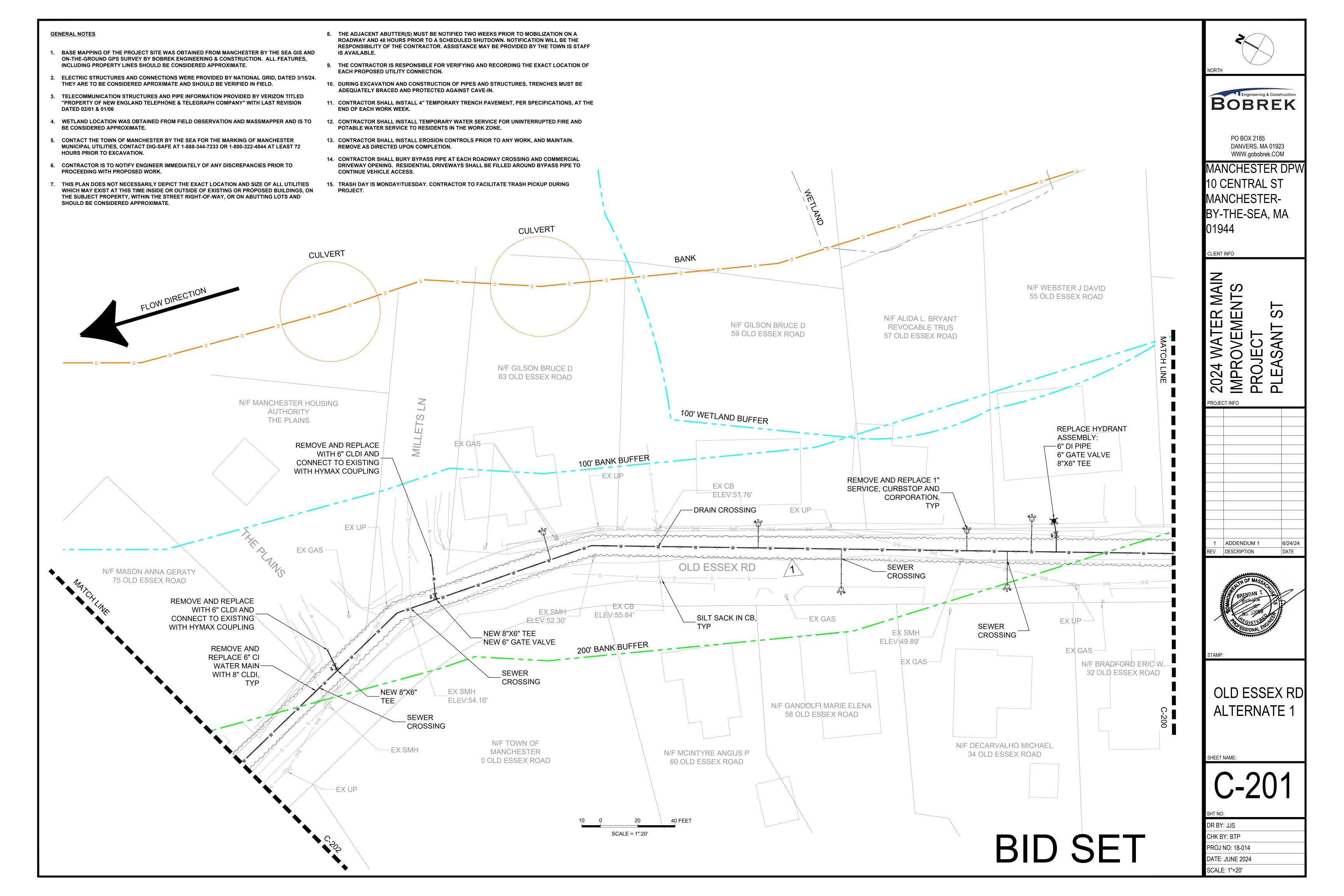
PLEASANT ST BASE BID

DR BY: JJS CHK BY: BTP

PROJ NO: 18-014 DATE: JUNE 2024



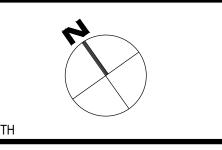




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- PROJECT.



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MANCHESTER DPW 10 CENTRAL ST MANCHESTER-BY-THE-SEA, MA

CLIENT INFO

MAIN **VEMENT**

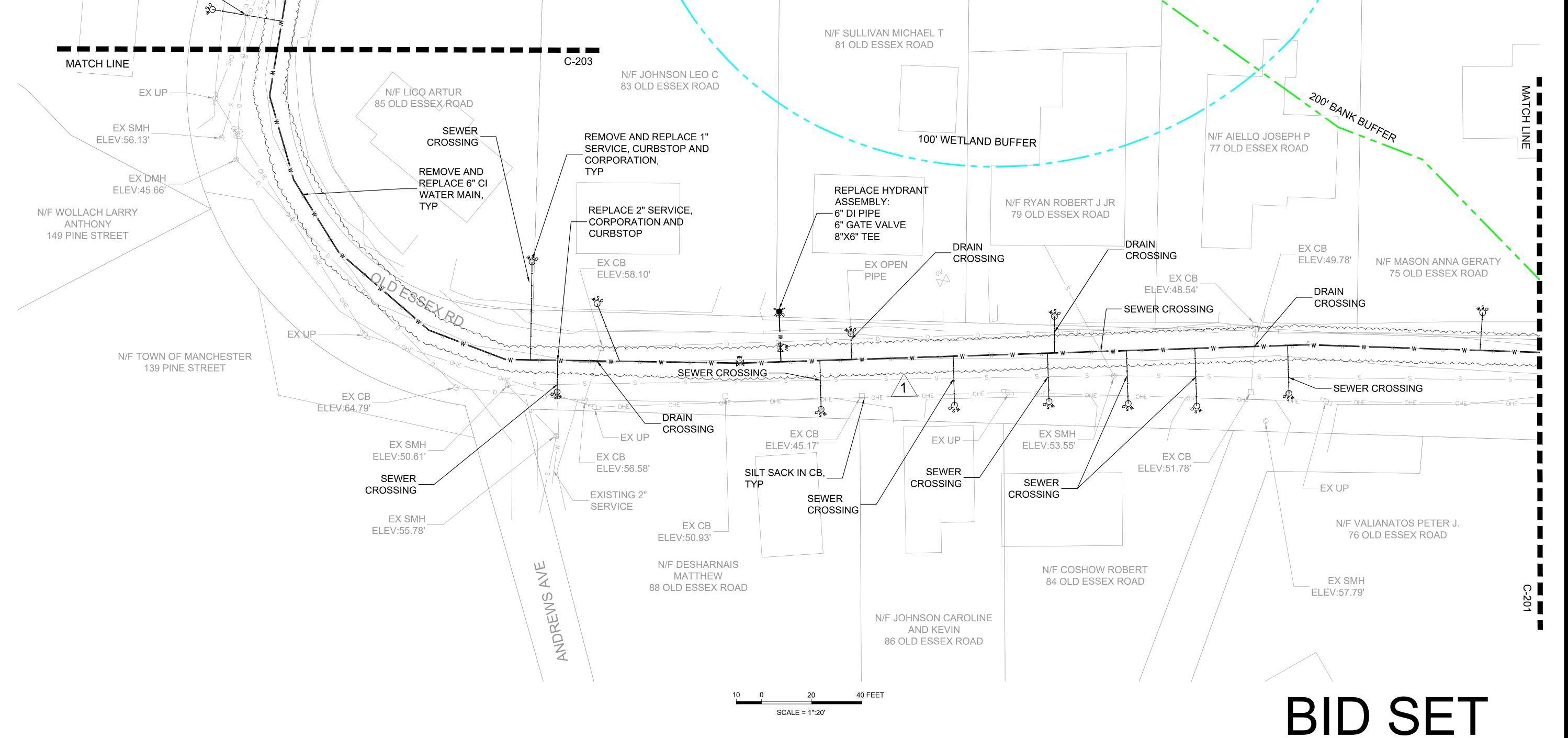
2024 PROJECT INFO

ADDENDUM 1 6/24/24 DESCRIPTION DATE



OLD ESSEX RD **ALTERNATE 1**

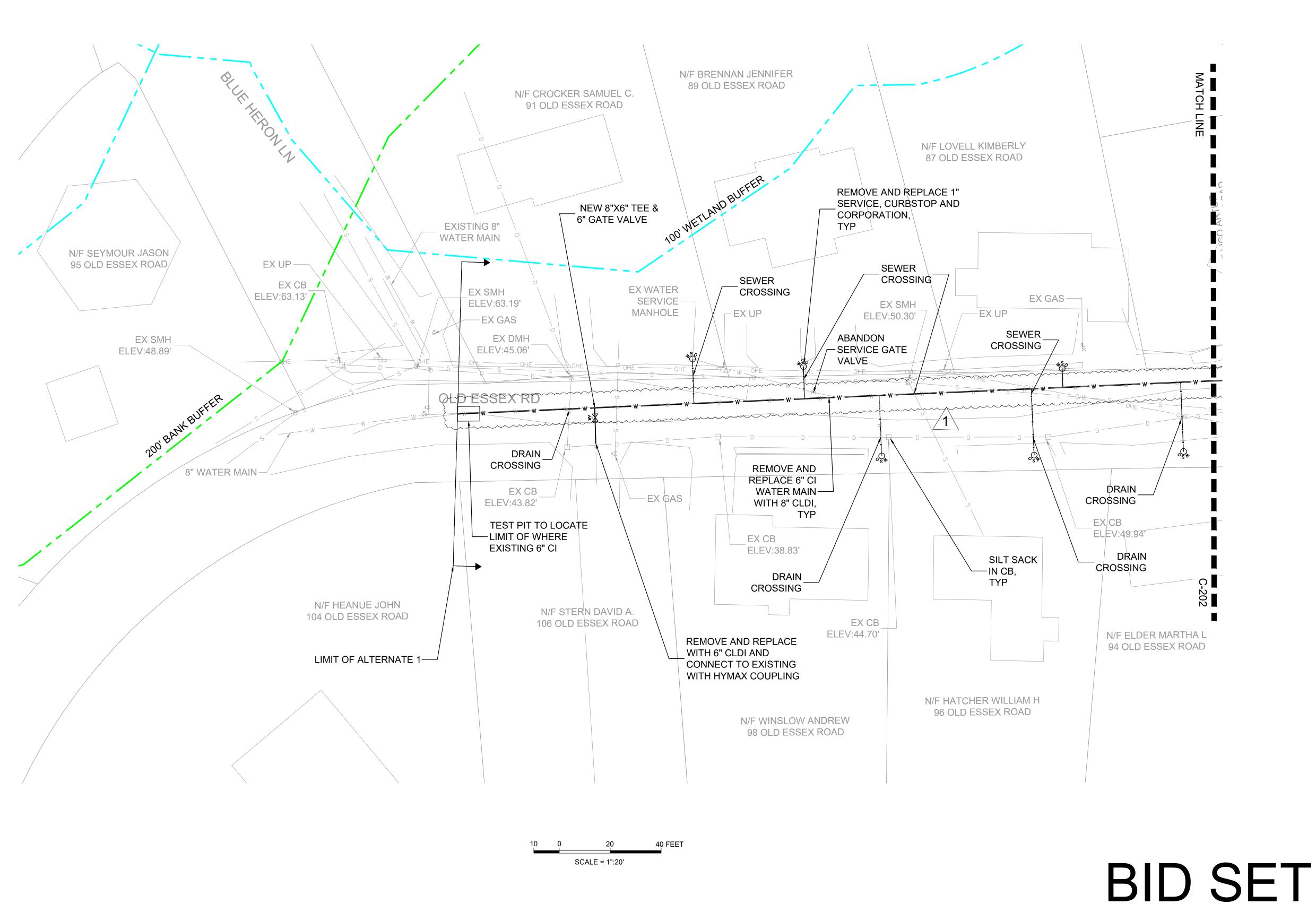
DR BY: JJS CHK BY: BTP PROJ NO: 18-014 DATE: JUNE 2024 SCALE: 1"=20'

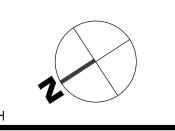


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MANCHESTER DPW 10 CENTRAL ST MANCHESTER-BY-THE-SEA, MA 01944

CLIENT INFO

2024 WATER MAIN IMPROVEMENTS
PROJECT
PLEASANT ST

ADDENDUM 1 6/24/2
DESCRIPTION DATE

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BRENDAN T.

BRENDAN T.

BYDHEN

STAMP:

OLD ESSEX RD ALTERNATE 1

SHEET NAM

C-203

SHT NO:

DR BY: JJS

CHK BY: BTP

PROJ NO: 18-014

DATE: JUNE 2024

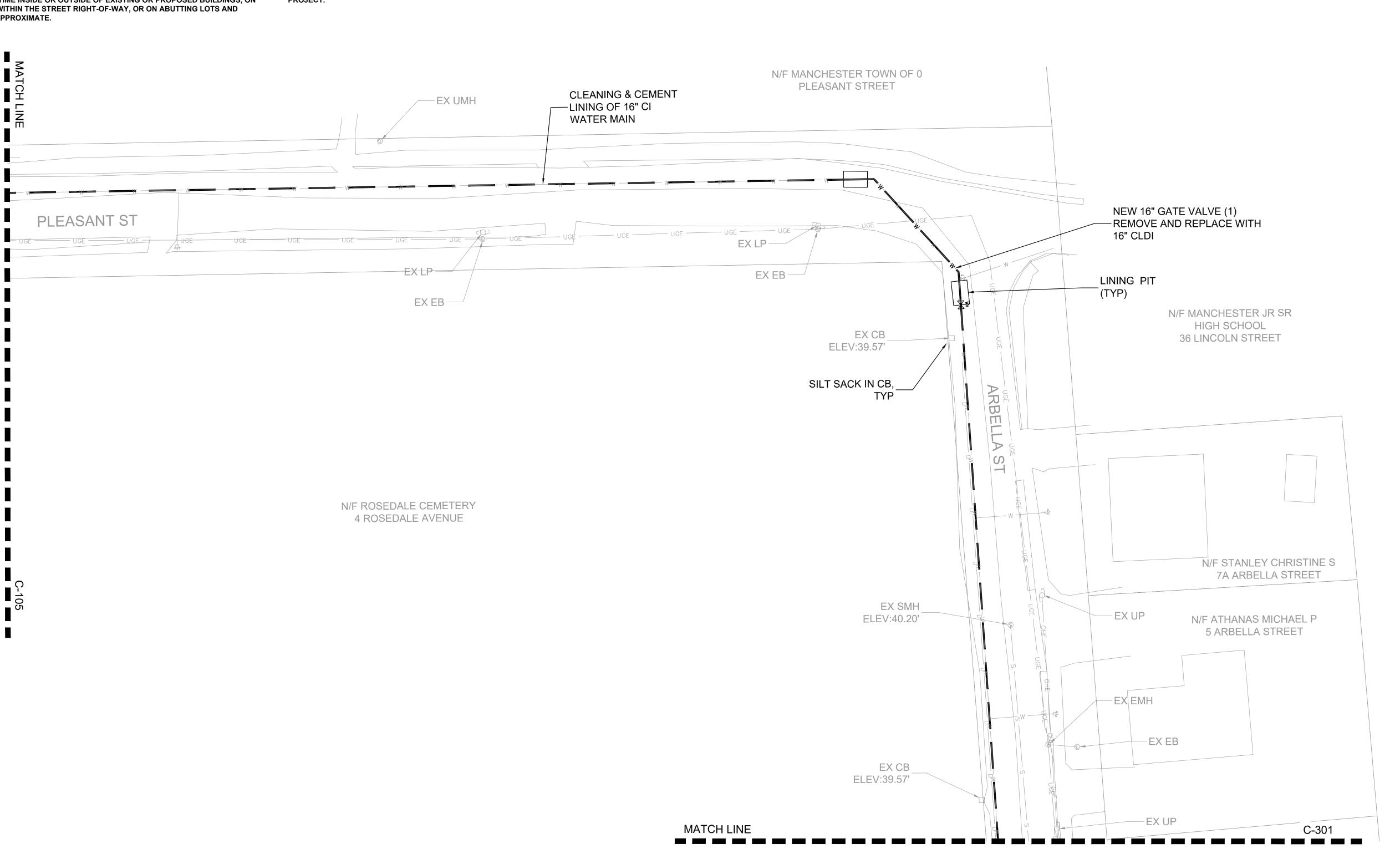
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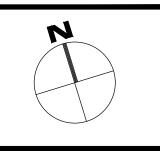
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SCALE = 1":20'



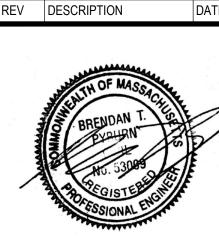
BOBREK

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MANCHESTER DPW 10 CENTRAL ST MANCHESTER-BY-THE-SEA, MA 01944

CLIENT INFO

2024 WATER MAIN IMPROVEMENTS PROJECT PLEASANT ST



STAMP:

PLEASANT ST ALTERNATE 2

HEET NAME:

C-300

SHT NO:

DR BY: JJS

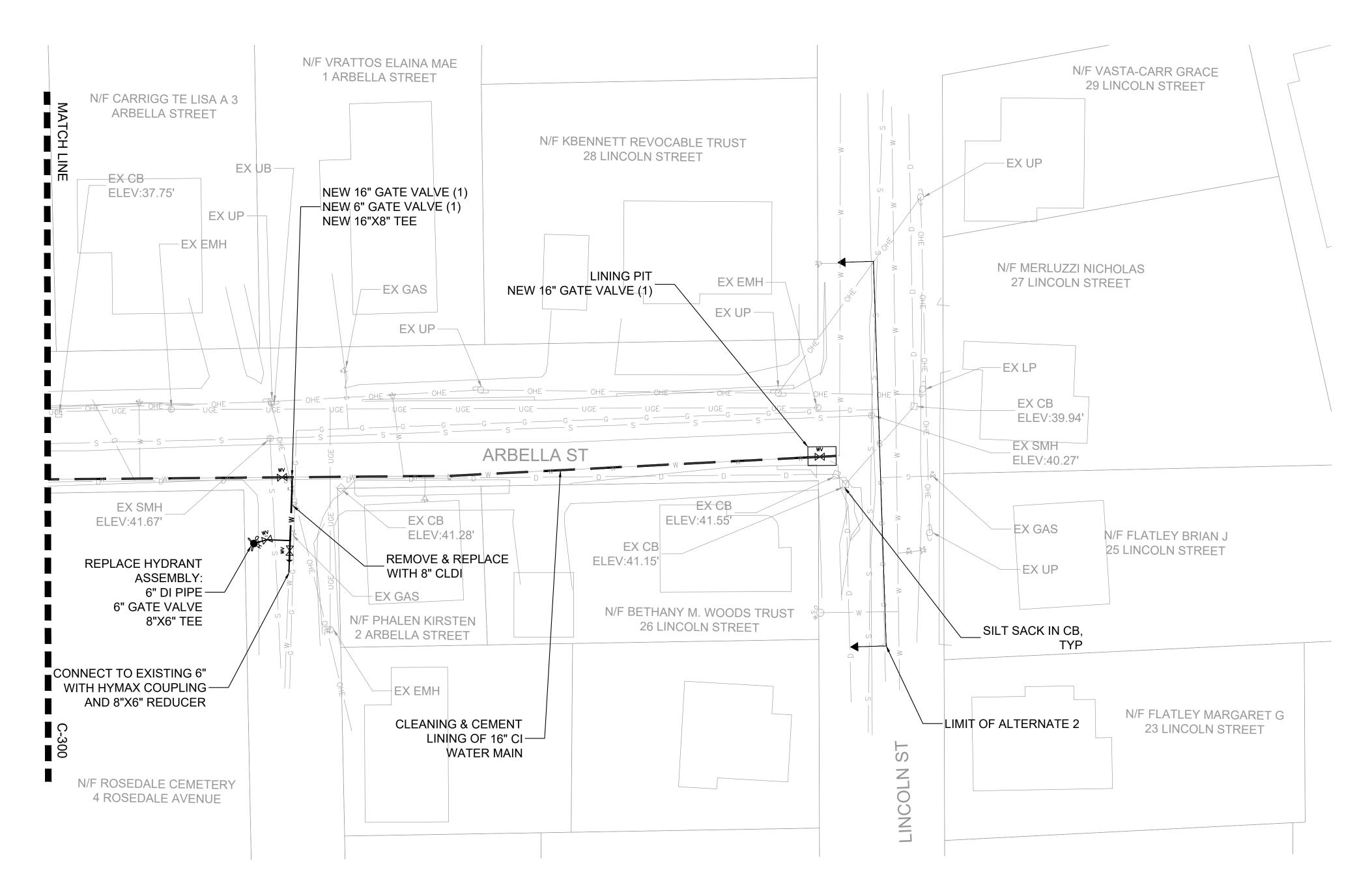
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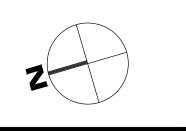
CHK BY: BTP
PROJ NO: 18-014
DATE: JUNE 2024
SCALE: 1"=20'

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MANCHESTER DPW 10 CENTRAL ST MANCHESTER-BY-THE-SEA, MA 01944

CLIENT INFO

2024 WATER MAIN IMPROVEMENTS PROJECT PLEASANT ST PROJECT INFO



DATE

REV DESCRIPTION

ARBELLA ST ALTERNATE 2

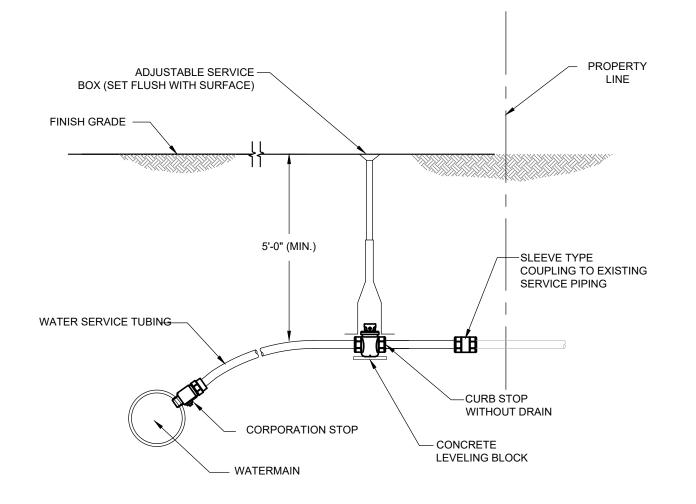
DR BY: JJS

SCALE: 1"=20'

CHK BY: BTP PROJ NO: 18-014 DATE: JUNE 2024

SCALE = 1":20'

BID SET

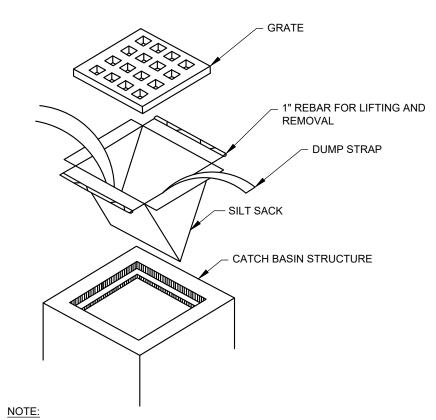


NOTES:

- 1. ALL JOINTS SHALL BE COMPRESSION TYPE.
- 2. WATER SERVICES SHALL BE BACKFILLED WITH SAND BY HAND TO 6" ABOVE COPPER TUBING AT 98% COMPACTION.
- 3. CORPORATION STOP LARGER THAN ONE INCH SHALL HAVE A SADDLE
- 4. SERVICE TO BE WRAPPED WITH #12 TRACER WIRE FROM CORPORATION TO CURB STOP AS SPECIFIED.
- 5. CORPORATIONS INSTALLED AFTER CIPP LINING SHALL BE INSTALLED WITH SADDLE.

WATER SERVICE CONNECTION

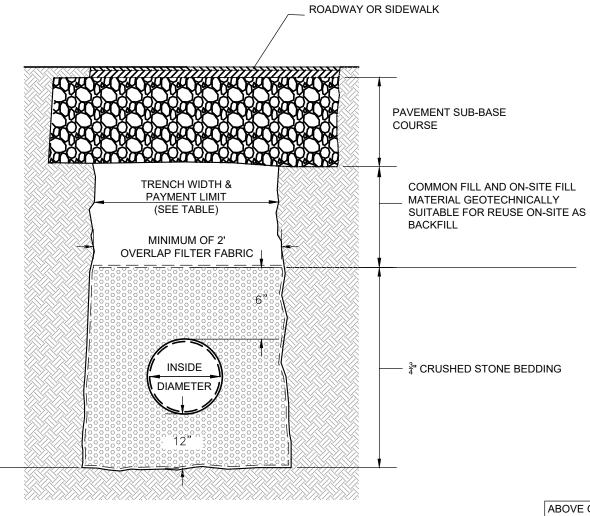
NOT TO SCALE



- INSTALL SILTSACK PER MANUFACTURER'S INSTRUCTIONS AND RECOMMENDATIONS.
 EMPTY OR REMOVE SEDIMENT FROM SILTSACK WHEN RESTRAINT CORD IS NO LONGER VISIBLE. CLEAN, RINSE, AND REPLACE AS NEEDED.
- 2. SILT SACKS TO BE INSTALLED AND MAINTAINED DURING CONSTRUCTION OPERATIONS.
- 3. CONTRACTOR SHALL PROVIDE SILT SACKS WITH OVERFLOW ORIFICE.

TYPICAL EROSION CONTROL - SILT SACK

NOT TO SCALE



	TRENCH PAY LIMIT TABLE FOR PIPE			
	PIPE SIZE (DIA.)	MAX TRENCH WIDTH		
	LESS THAN 2"	2'-0"		
	2" TO 6"	3'-0"		
	8" TO 22"	4'-0"		
	24" & GREATER	I.D. + 2'-0"		
I.D. = INSIDE DIMENSION				
	FOR TRENCHES GREATER THAT 5' DEEI			

FOR TRENCHES GREATER THAT 5' DEEP ADD MAXIMUM 3' FOR TEMPORARY SUPPORT OF EXCAVATION

_	FILTER FABRIC USE		
	SOIL TYPE		
	SILT OR CLAY	GRANULAR SOIL	
ABOVE GROUND WATER	FILTER FABRIC NOT REQUIRED	FILTER FABRIC NOT REQUIRED	
BELOW GROUND WATER	FILTER FABRIC REQUIRED	FILTER FABRIC NOT REQUIRED	

TYPICAL UTILITY TRENCH NOT TO SCALE

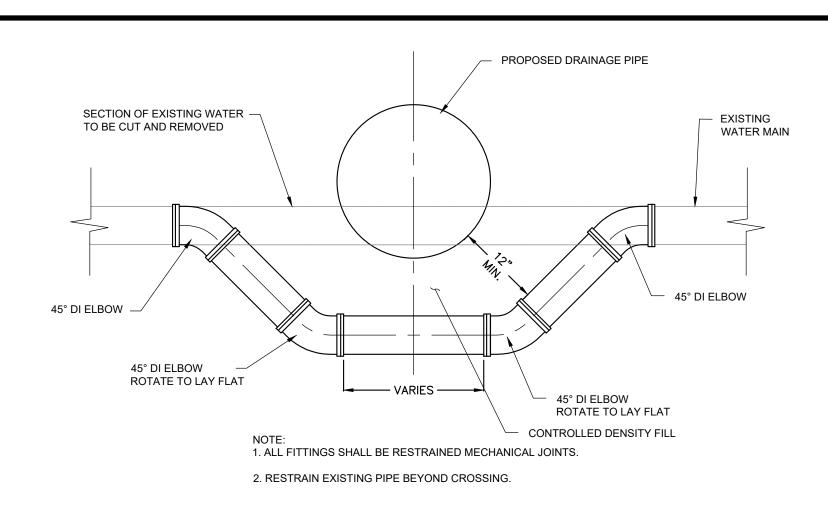
NOTE:

ANY LENGTHS OF PIPE BETWEEN STRUCTURES

OVER 150' IN LENGTH SHALL HAVE A BENTONITE

CHIP DAM INSTALLED 1' WIDE BY PIPE BEDDING

CROSS SECTION



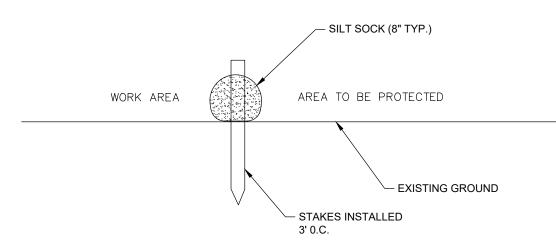
WATER LINE CROSSING NOT TO SCALE

12" COMPACTED GRAVEL

SUBGRADE

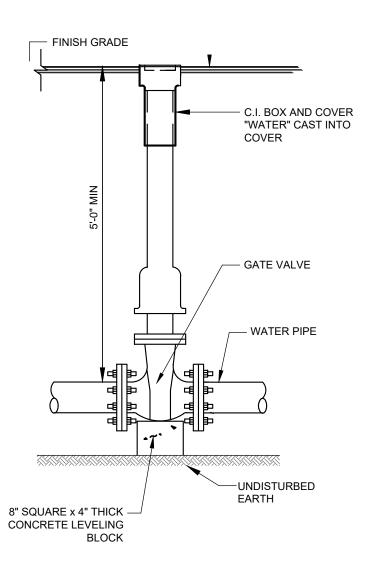
TEMPORARY TRENCH PAVEMENT

NOT TO SCALE



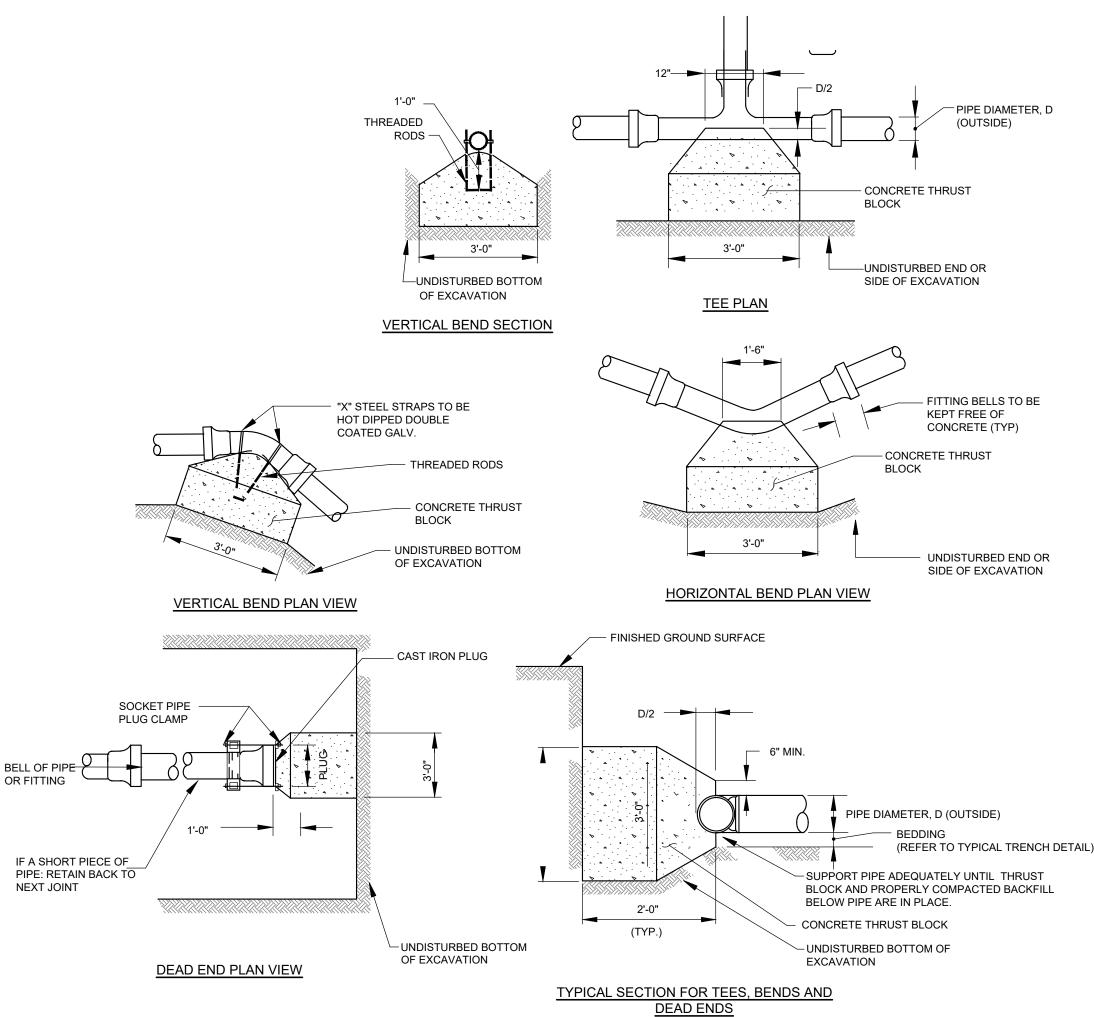
TYPICAL EROSION CONTROL - SILT SOXX

NOT TO SCALE



GATE BOX

NOT TO SCALE



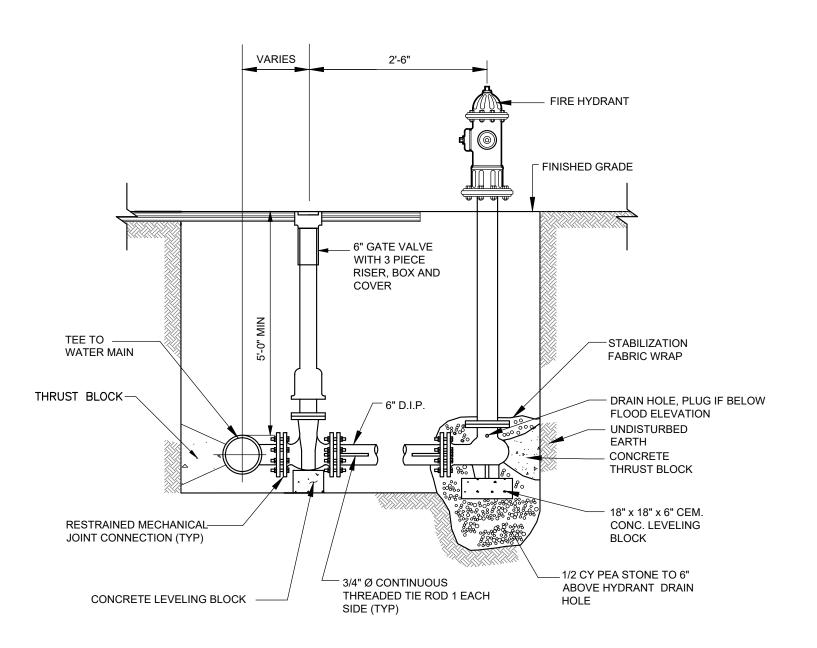
OTES:
ALL FITTINGS SHALL BE ANCHORED BY MECHANICAL MEANS OR BY CONCRETE THRUST BLOCKS, OR BOTH.

BY FIELD CONDITIONS. SUBJECT TO REVIEW AND APPROVAL BY THE ENGINEER.

ALL EXPOSED METAL SHALL BE SS304 AS SPECIFIED.
 CONCRETE SHALL DEVELOP A MINIMUM COMPRESSIVE STRESS OF 3000 P.S.I. AT 28 DAYS.
 THESE ARE TYPICAL THRUST BLOCK INSTALLATIONS. ACTUAL METHOD OF RESTRAINT MUST BE DETERMINED

TYPICAL THRUST BLOCKS

NOT TO SCALE



FIRE HYDRANT

BID SET

BOBREK

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MANCHESTER DPW 10 CENTRAL ST MANCHESTER-BY-THE-SEA, MA 01944

CLIENT INFO

2024 WATER MAIN IMPROVEMENTS PROJECT PLEASANT ST

PROJECT INFO



DATE

STAMP:

REV DESCRIPTION

DETAILS I

SHEET NAME:

C-400

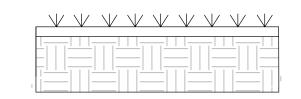
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PROJ NO: 18-014

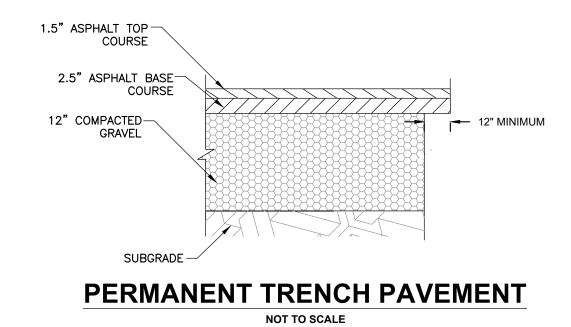
DATE: JUNE 2024

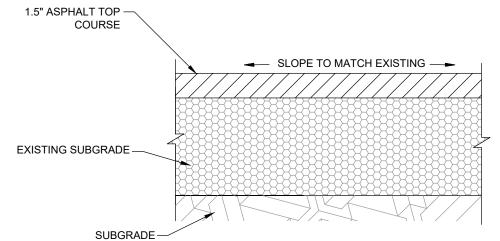


GRASS RESTORATION

NOT TO SCALE

NOTES:
1. CONTRACTOR RESPONSIBLE FOR GRASS
ESTABLISHMENT AND WATERING FOR 1
GROWING SEASON.



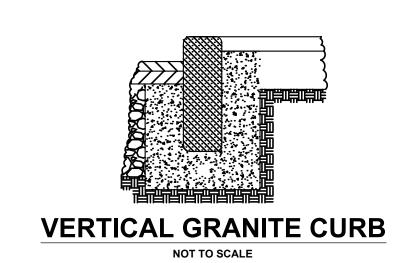


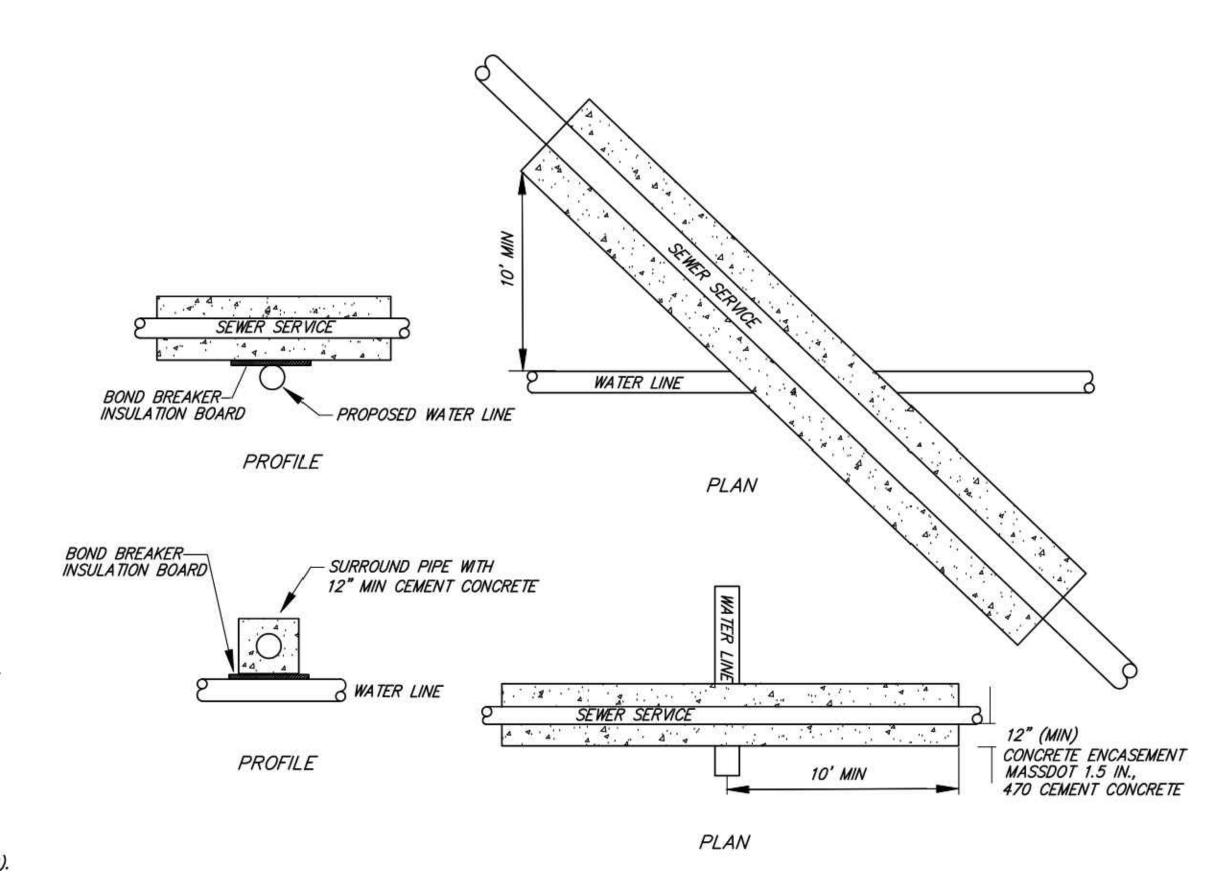
NOTE:

- CONTRACTOR SHALL APPLY TACK COAT PRIOR TO PLACING 2" OVERLAY.
- 2. CONTRACTOR SHALL ADJUST ALL STRUCTURES WITHIN RIGHT-OF WAY TO GRADE PRIOR TO INSTALLING OVERLAY.

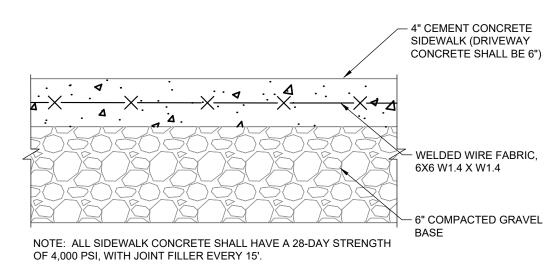
MILL & OVERLAY

NOT TO SCALE



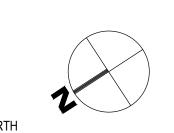


CONCRETE ENCASEMENT FOR SEWER SERVICE
NOT TO SCALE



CONCRETE SIDEWALK

NOT TO SCALE



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MANCHESTER DPW 10 CENTRAL ST MANCHESTER-BY-THE-SEA, MA 01944

CLIENT INFO

2024 WATER MAIN IMPROVEMENTS PROJECT PLEASANT ST

REV	DESCRIPTION	DAT



STAMP:

DETAILS II

SHEET NAME:

C-40'

SHT NO:

DR BY: JJS

CHK BY: BTP

PROJ NO: 18-014

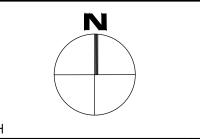
DATE: JUNE 2024

GENERAL NOTES

APPROXIMATE.

- BASE MAPPING OF THE PROJECT SITE WAS OBTAINED FROM MANCHESTER BY THE SEA GIS AND ON-THE-GROUND GPS SURVEY BY BOBREK ENGINEERING & CONSTRUCTION. ALL FEATURES, INCLUDING PROPERTY LINES SHOULD BE CONSIDERED APPROXIMATE.
- 2. ELECTRIC STRUCTURES AND CONNECTIONS WERE PROVIDED BY NATIONAL GRID, DATED 3/15/24. THEY ARE TO BE 11. CONTRACTOR SHALL INSTALL 4" TEMPORARY TRENCH PAVEMENT, PER SPECIFICATIONS, AT THE END OF EACH CONSIDERED APROXIMATE AND SHOULD BE VERIFIED IN FIELD.
- 3. TELECOMMUNICATION STRUCTURES AND PIPE INFORMATION PROVIDED BY VERIZON TITLED "PROPERTY OF NEW ENGLAND TELEPHONE & TELEGRAPH COMPANY" WITH LAST REVISION DATED 02/01 & 01/06
- 4. WETLAND LOCATION WAS OBTAINED FROM FIELD OBSERVATION AND MASSMAPPER AND IS TO BE CONSIDERED
- 5. CONTACT THE TOWN OF MANCHESTER BY THE SEA FOR THE MARKING OF MANCHESTER MUNICIPAL UTILITIES, CONTACT DIG-SAFE AT 1-888-344-7233 OR 1-800-322-4844 AT LEAST 72 HOURS PRIOR TO EXCAVATION.
- 6. CONTRACTOR IS TO NOTIFY ENGINEER IMMEDIATELY OF ANY DISCREPANCIES PRIOR TO PROCEEDING WITH PROPOSED WORK.
- 7. THIS PLAN DOES NOT NECESSARILY DEPICT THE EXACT LOCATION AND SIZE OF ALL UTILITIES WHICH MAY EXIST AT THIS TIME INSIDE OR OUTSIDE OF EXISTING OR PROPOSED BUILDINGS, ON THE SUBJECT PROPERTY, WITHIN THE STREET RIGHT-OF-WAY, OR ON ABUTTING LOTS AND SHOULD BE CONSIDERED APPROXIMATE.
- 8. THE ADJACENT ABUTTER(S) MUST BE NOTIFIED TWO WEEKS PRIOR TO MOBILIZATION ON A ROADWAY AND 48 HOURS PRIOR TO A SCHEDULED SHUTDOWN. NOTIFICATION WILL BE THE RESPONSIBILITY OF THE CONTRACTOR. ASSISTANCE MAY BE PROVIDED BY THE TOWN IS STAFF IS AVAILABLE.

- 9. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING AND RECORDING THE EXACT LOCATION OF EACH PROPOSED UTILITY CONNECTION.
- 10. DURING EXCAVATION AND CONSTRUCTION OF PIPES AND STRUCTURES, TRENCHES MUST BE ADEQUATELY BRACED AND PROTECTED AGAINST CAVE-IN.
- **WORK WEEK.**
- 12. CONTRACTOR SHALL INSTALL TEMPORARY WATER SERVICE FOR UNINTERRUPTED FIRE AND POTABLE WATER SERVICE TO RESIDENTS IN THE WORK ZONE.
- 13. CONTRACTOR SHALL INSTALL EROSION CONTROLS PRIOR TO ANY WORK, AND MAINTAIN. REMOVE AS DIRECTED UPON COMPLETION.
- 14. CONTRACTOR SHALL BURY BYPASS PIPE AT EACH ROADWAY CROSSING AND COMMERCIAL DRIVEWAY OPENING. RESIDENTIAL DRIVEWAYS SHALL BE FILLED AROUND BYPASS PIPE TO CONTINUE VEHICLE ACCESS.
- 15. TRASH DAY IS MONDAY/TUESDAY. CONTRACTOR TO FACILITATE TRASH PICKUP DURING PROJECT.
- 16. BYPASS PLAN SHOWN FOR INFORMATIONAL PURPOSES ONLY. CONTRACTOR IS RESPONSIBLE TO DESIGN, SUBMIT FOR APPROVAL, IMPLEMENT, MAINTAIN, REMOVE AND RESTORE ALL WATER MAIN BYPASS ITEMS.
- 17. CUT-IN VALVES TO REMAIN ARE PAID BY NEW VALVE ITEMS.



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MANCHESTER DPW 10 CENTRAL ST BY-THE-SEA, MA

CLIENT INFO

PROJECT INFO

MAIN TER VEME W 2024 \Box

> DESCRIPTION DATE

PLEASANT ST **BYPASS SCHEMATIC**

DR BY: JJS CHK BY: BTP

PROJ NO: 18-014 DATE: JUNE 2024 SCALE: 1"=40'



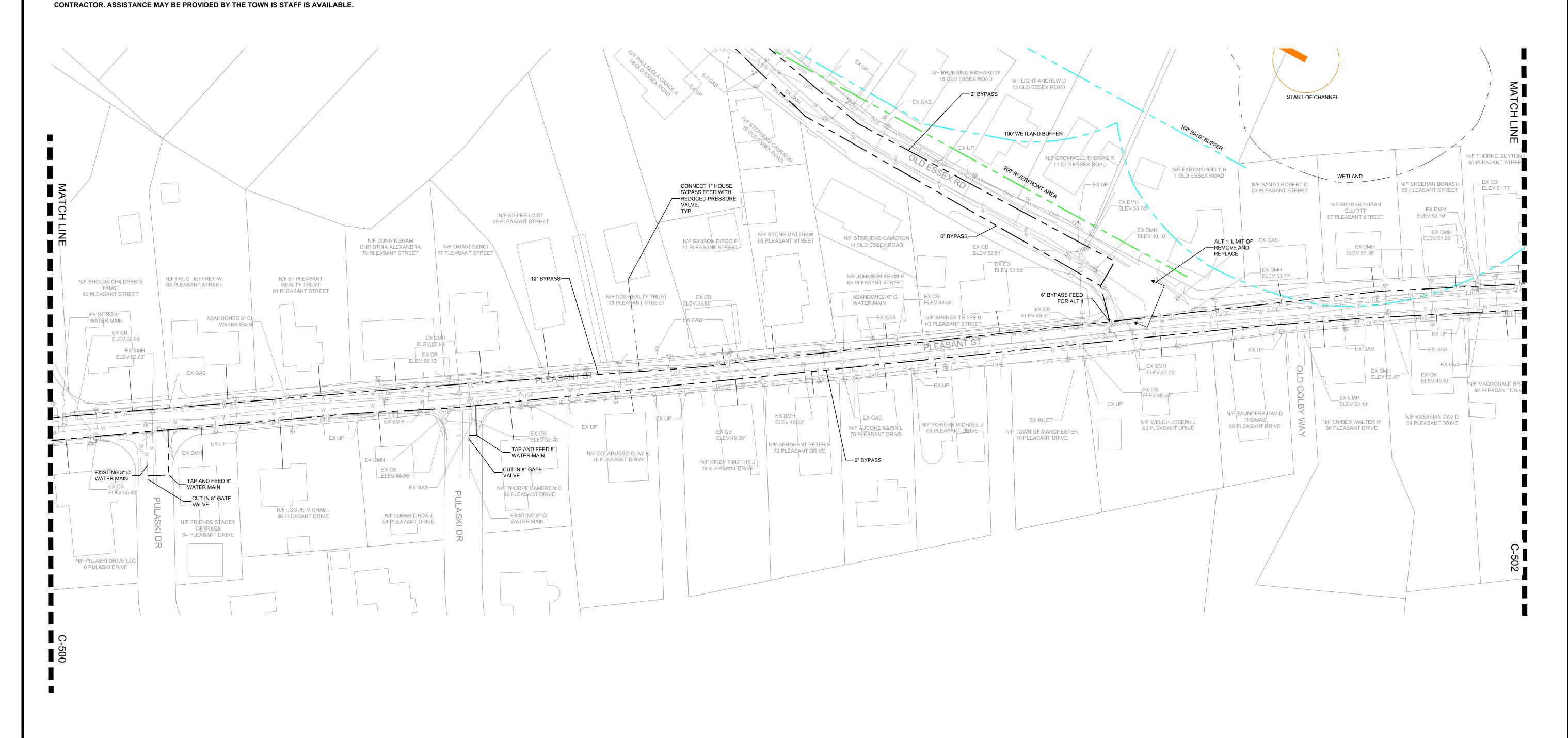
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EXIST AT THIS TIME INSIDE OR OUTSIDE OF EXISTING OR PROPOSED BUILDINGS, ON THE SUBJECT PROPERTY, WITHIN THE STREET RIGHT-OF-WAY, OR ON ABUTTING LOTS AND SHOULD BE CONSIDERED

8. THE ADJACENT ABUTTER(S) MUST BE NOTIFIED TWO WEEKS PRIOR TO MOBILIZATION ON A ROADWAY AND 48 HOURS PRIOR TO A SCHEDULED SHUTDOWN. NOTIFICATION WILL BE THE RESPONSIBILITY OF THE

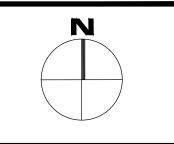
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- 9. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING AND RECORDING THE EXACT LOCATION OF EACH PROPOSED UTILITY CONNECTION.
- 10. DURING EXCAVATION AND CONSTRUCTION OF PIPES AND STRUCTURES, TRENCHES MUST BE ADEQUATELY **BRACED AND PROTECTED AGAINST CAVE-IN.**
- 11. CONTRACTOR SHALL INSTALL 4" TEMPORARY TRENCH PAVEMENT, PER SPECIFICATIONS, AT THE END OF **EACH WORK WEEK.**
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- 16. BYPASS PLAN SHOWN FOR INFORMATIONAL PURPOSES ONLY. CONTRACTOR IS RESPONSIBLE TO DESIGN, 7. THIS PLAN DOES NOT NECESSARILY DEPICT THE EXACT LOCATION AND SIZE OF ALL UTILITIES WHICH MAY SUBMIT FOR APPROVAL, IMPLEMENT, MAINTAIN, REMOVE AND RESTORE ALL WATER MAIN BYPASS ITEMS.
 - 17. CUT-IN VALVES TO REMAIN ARE PAID BY NEW VALVE ITEMS.
 - 18. BYPASS FOR OLD ESSEX RD. ASSUMED TO CONSIST OF 6" AND 2".



80 FEET

SCALE = 1":40'



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MANCHESTER DPW 10 CENTRAL ST MANCHESTER-BY-THE-SEA, MA

CLIENT INFO

MAIN TER VEME W 2024 PROJECT INFO

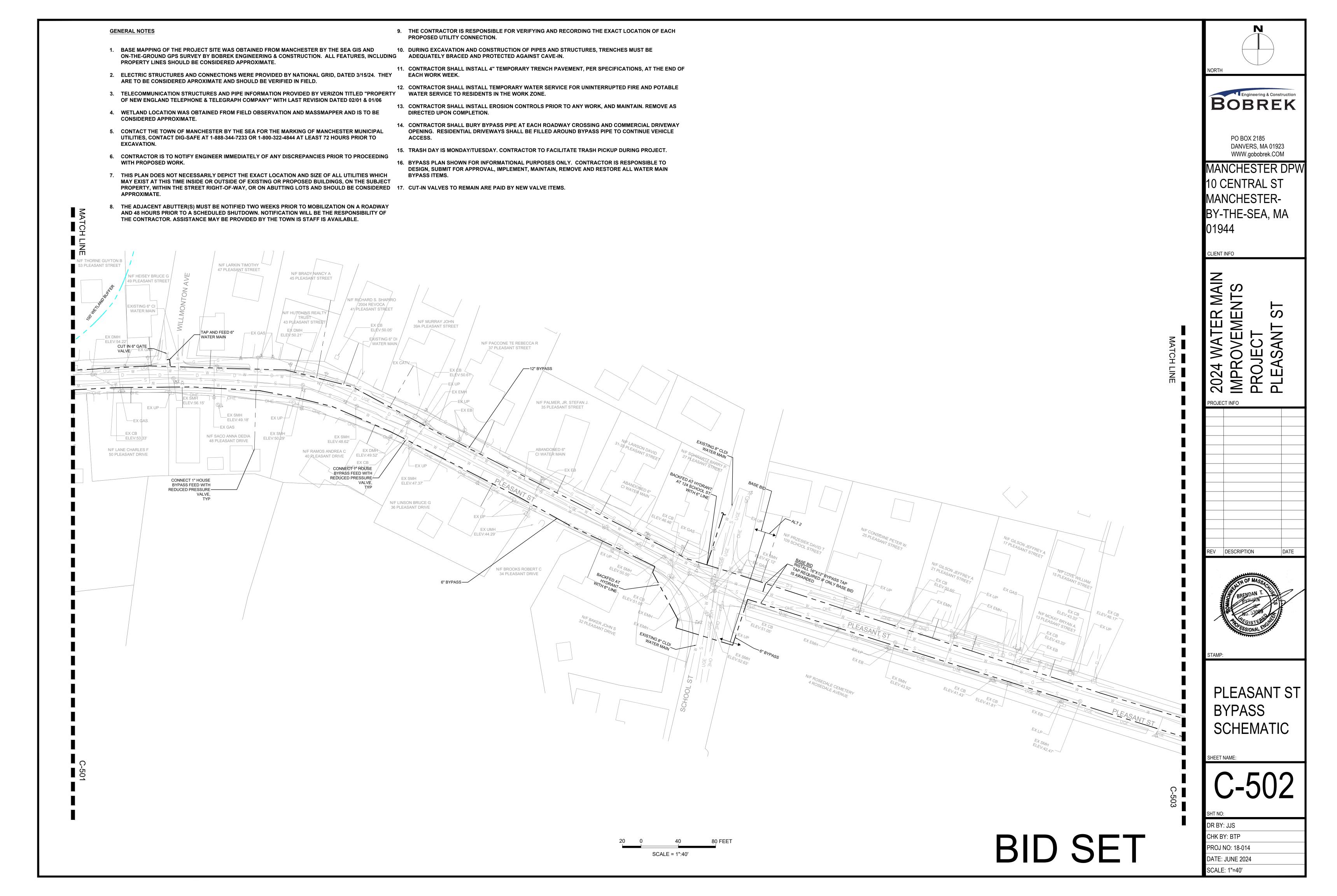
DATE

REV DESCRIPTION

PLEASANT ST **BYPASS** SCHEMATIC

BID SET

DR BY: JJS CHK BY: BTP PROJ NO: 18-014 DATE: JUNE 2024 SCALE: 1"=40'



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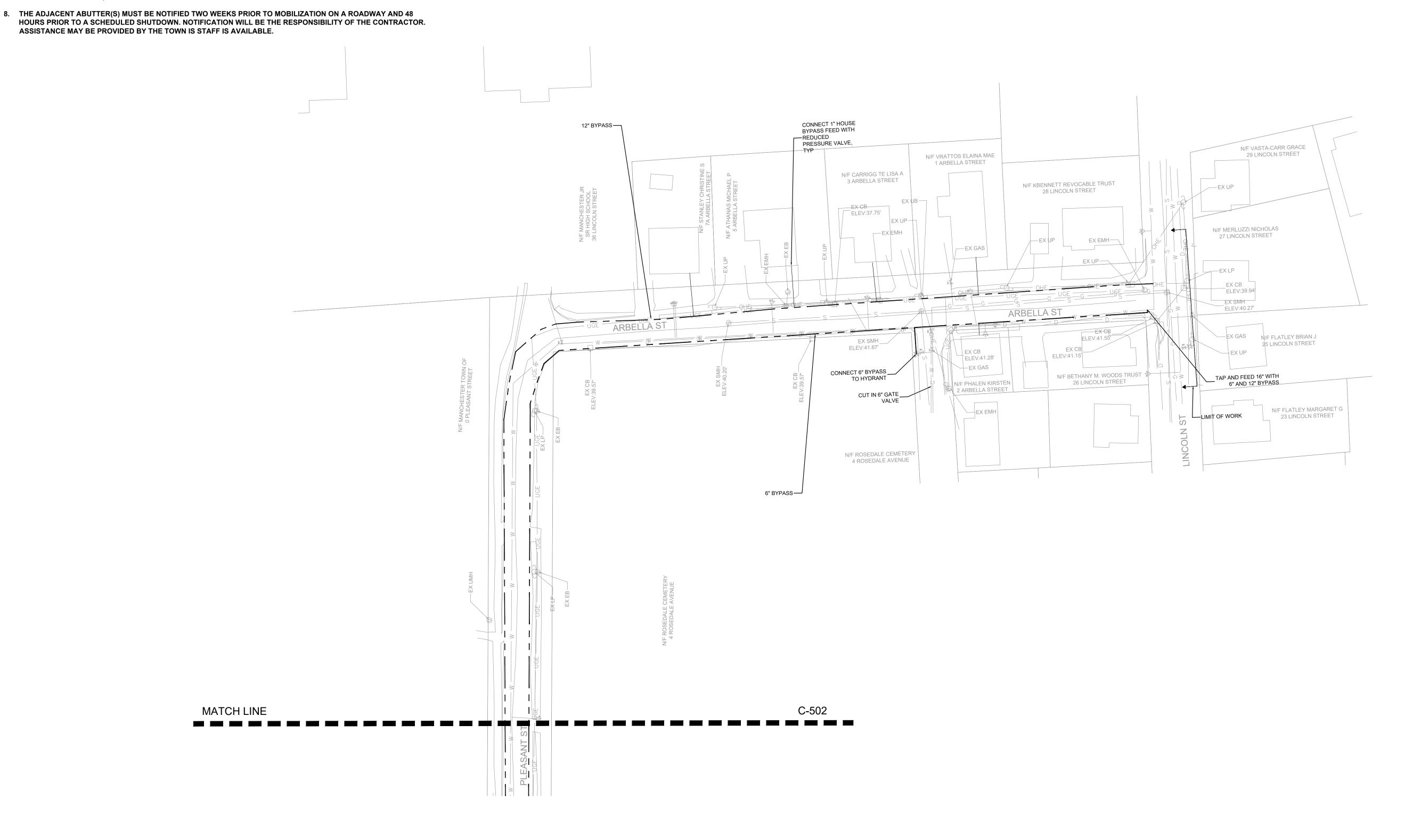
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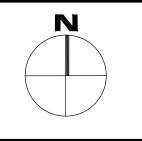
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SCALE = 1":40'

17. CUT-IN VALVES TO REMAIN ARE PAID BY NEW VALVE ITEMS.





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MANCHESTER DPW 10 CENTRAL ST MANCHESTER-BY-THE-SEA, MA 01944

CLIENT INFO

2024 WATER MAIN IMPROVEMENTS
PROJECT
PLEASANT ST

REV DESCRIPTION DATE



STAMP:

PLEASANT ST BYPASS SCHEMATIC

SHEET NA

C-503

SHT NO:

DR BY: JJS

CHK BY: BTP
PROJ NO: 18-014
DATE: JUNE 2024
SCALE: 1"=40'

BID SET